

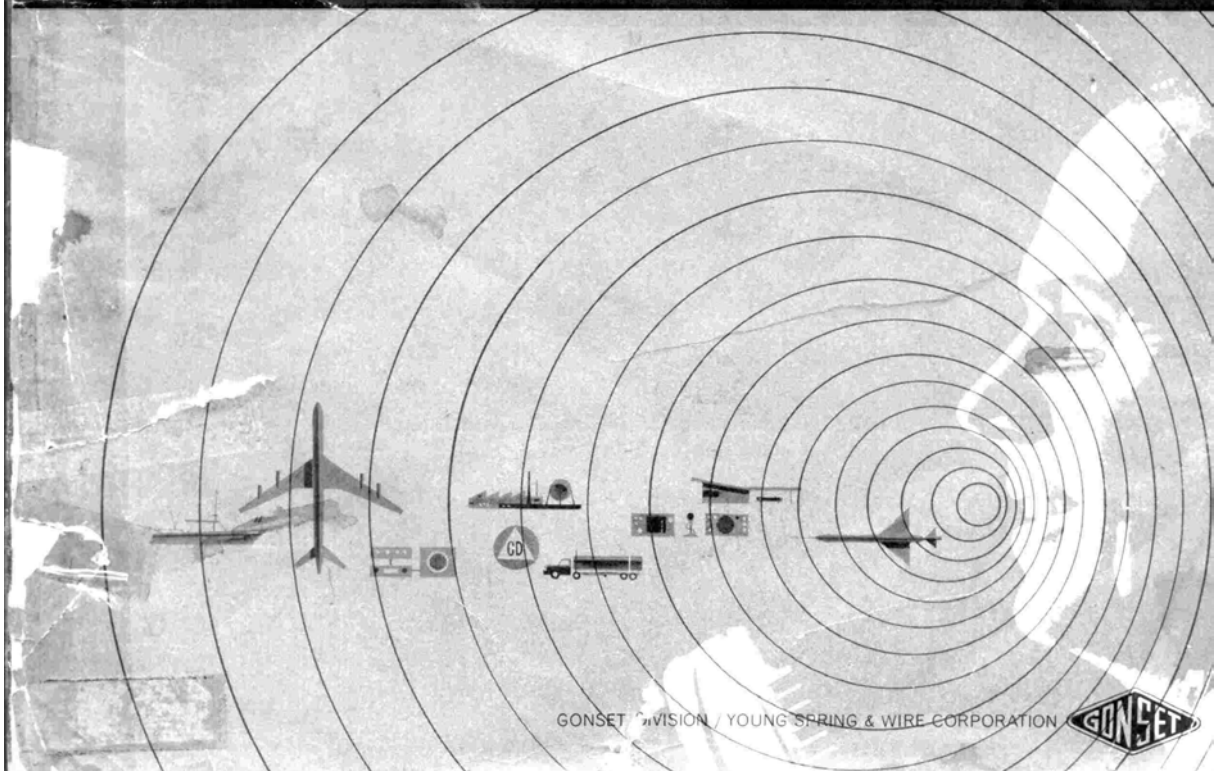
# GONSET

INSTRUCTION MANUAL

G-76 MULTI BAND TRANSCEIVER MODEL 3338

G-76 AC POWER SUPPLY MODEL 3349

G-76 DC POWER SUPPLY MODEL 3350



## *Warranty Policy*

The Gonset Division 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.

The Gonset Division reserves the right to discontinue or change, at any time, specifications, design or prices without notice and without incurring obligations.

**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.**

## **GONSET DIVISION**

**YOUNG SPRING AND WIRE CORPORATION  
801 SOUTH MAIN STREET, BURBANK, CALIFORNIA**

DANGER, HIGH VOLTAGE

The voltage employed in this unit are sufficient to cause fatal shock under some conditions. Do not attempt to work on the unit out of the cabinet unless you are qualified to the extent of knowing what precautions to observe with regard to avoiding electrical shock.

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**GONSET DIVISION**

**Young Spring & Wire Corporation**

**801 South Main Street**

**Burbank, California**

MADE IN U.S.A.

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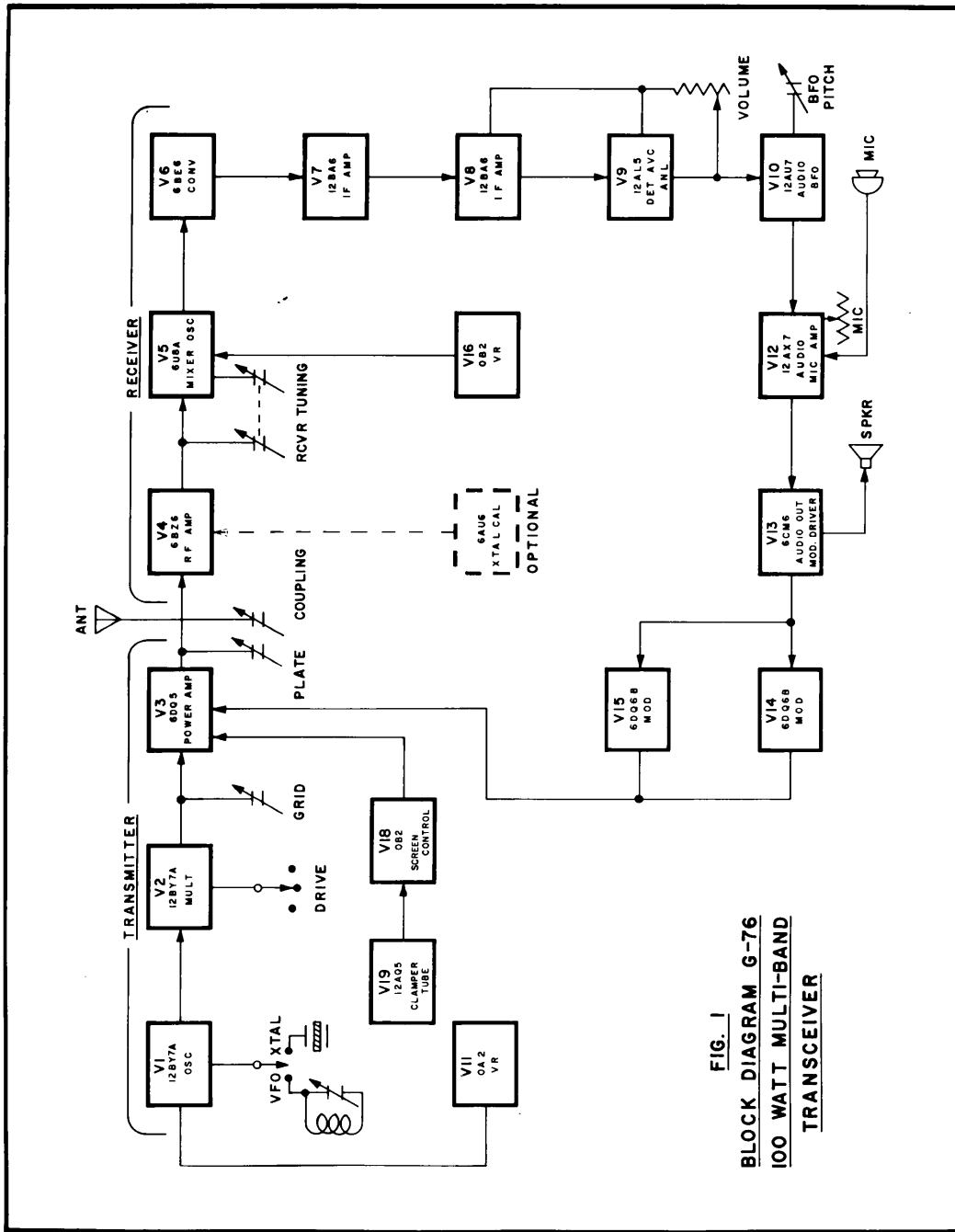


FIG. 1  
BLOCK DIAGRAM G-76  
100 WATT MULTI-BAND  
TRANSCIVER

## RECEIVER SPECIFICATIONS

Frequency Ranges: Band 1 -- 3.5 - 4.0 megacycles  
Band 2 -- 7.0 - 7.3 megacycles  
Band 3 -- 14.0 -14.35 megacycles  
Band 4 -- 21.0 -21.45 megacycles  
Band 5 -- 28.0 -29.7 megacycles  
Band 6 -- 50.0 -54.0 megacycles

Sensitivity: Approximately 1  $\mu$ V at 50  $\Omega$  for 6 db signal-plus-noise to noise ratio.

Selectivity: 3 Kc. bandwidth at 6 db down, nominal.  
14 Kc. or less, at 60 db down.

Image Rejection:

Typical Figures:

Signal Input	Image
3.5 Mc.	70 db down
7 Mc.	57 db
14 Mc.	58 db
21 Mc.	53 db
28 Mc.	48 db
50 Mc.	30 db

**Stability:** Oscillators (both transmitter and receiver) are temperature compensated for negligible frequency drift. Oscillator circuit permits exceptionally wide excursions in power supply voltage, both plate supply and heater supply, with negligible frequency shift. As much as 30% decrease, or 50% increase, may be tolerated even in single sideband reception. This feature is, of course, most important in mobile service. Mechanical stability is excellent.

**Antenna**  
**Input:** 50 ohms unbalanced (coax cable).

**Intermediate**  
**Frequencies:** First I.F. . . . . 2065 Kc.  
 Second I.F. . . . . 262 Kc.

**Audio**  
**Output:** 2.5 Watts into 3.2 ohms.

**Noise**  
**Limiters:** Automatic type, switched in or out with front panel controls.

**Accessories:** 100 Kc. calibrator (Gonset Model 3269).  
 Microphone, High Impedance Ceramic Type (Gonset #3240)

## TRANSMITTER SPECIFICATIONS

**Frequency**  
**Range:** 3.5, 7, 14, 21, 28 and 50 Mc. amateur bands.

**V F O:** Planetary vernier tuning, choice of crystal control when desired. VFO does not function on 50 Mc. band (8334-9000 Kc. crystal required for this band.) For other bands, crystal frequencies are as follows:

80M	1.75 or 3.5 Mc.
40M	1.75, 3.5 or 7 Mc.
20M	3.5 or 7 Mc.
15M	7-7.15 Mc.
10M	7-7.425 Mc.
6M	8.334-9 Mc.

**Input**  
**Power:** 6DQ5 Power Amplifier  
 100 Watts, amplitude modulated phone  
 120 Watts, CW.

**Output**  
**Impedance:** 50 ohms unbalanced (coax cable).

Power

Requirements: (Gonset G-76 A.C. Supply - Model 3349).  
(Gonset G-76 D.C. Supply - Model 3350).

- (1) 12.6 volts A.C. or D.C. at 4.67 amperes.  
This reduces to 2.17 amps. when the transmitter function switch is set on "FIL OFF", thus allowing for reception only with minimum battery drain.

(NOTE: Transmitter oscillator tube is not turned off in this position.)

- (2) 225-275 volts D.C. at 90 MA.

- (3) 500-625 volts D.C. at 200 MA., resting current, 330 MA. on voice peaks. (250 MA. average drain on phone.

Dimensions: 12-5/8" wide, 5-1/8" high, 10-1/2" deep.

Shipping Weight: 21 pounds



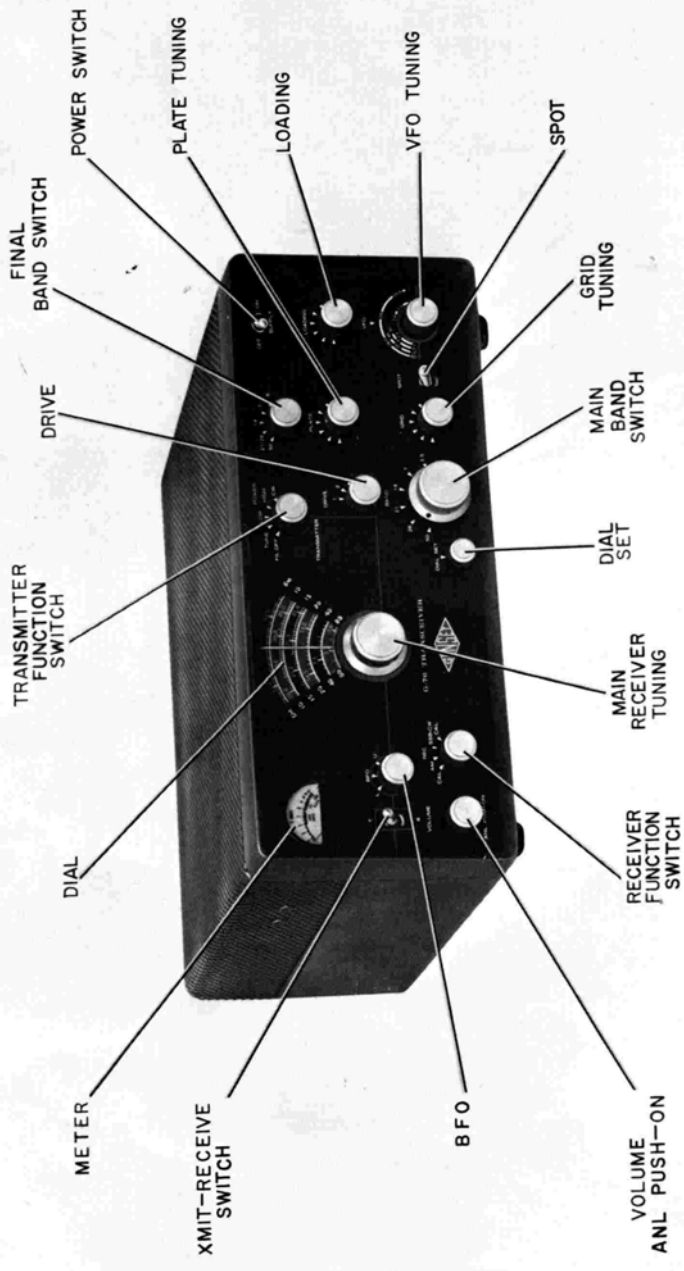


FIG. 2 FRONT PANEL CONTROLS

## RECEIVER CONTROLS

Tuning  
Dial: 8:1 Planetary vernier. Dial scales printed on rotating disc.

Volume  
Control: Functions as an audio gain control in A.M. reception and R.F. gain, or sensitivity control, in SSB or CW reception. The push-pull switch on this control switches the automatic noise limiter on (in) and off (out).

Function  
Control:

Position 1	AM	Cal ON
Position 2	AM	Cal OFF
Position 3	SSB-CW	Cal OFF
Position 4	SSB-CW	Cal ON

NOTE: The 100 Kc. calibrator (Gonset Model 3269) is a plug-in accessory available as optional equipment. It can be switched on in both A.M. and SSB-CW positions.

BFO Pitch  
Control: Marked "L" and "U" to indicate approximately the positions for lower and upper sideband reception.

Dial  
Set: For minor correction of dial calibration.

Bandswitch: 6 Ranges: 3.5-4 Mc., 7-7.3 Mc., 14-14.35 Mc., 21-21.75 Mc., 28-29.7 Mc., and 50-54 Mc.

NOTE: This control also switches bands in the transmitter.

Bandswitch  
#2: This control selects the frequency range of the pi matching system, which functions as receiver input circuit, and transmitter output circuit. It has 5 ranges, marked "3.5, 7, 14, 21-28, 50". Note that the 21 and 28 Mc. bands are included in the same position.

## TRANSMITTER CONTROLS

Function  
Control:

Position 1      FIL.OFF reduces heater drain when receiving only.

Position 2      Tune. Voltage applied only to oscillator. Mult.  
meter registers grid MA. to final amplifier.

Position 3      Low Power. Plate and loading should be adjusted in this  
position to load to 2 or 3 on meter scale. Approximately  
20 watts input to final A°M° phone.

Position 4      High power. Full HV applied to final and modulator.  
Approximately 100 watts A.M.

Position 5      CW. Voltage removed from modulator and modulation trans-  
former shorted out. Approximately 120 watts input.  
NOTE: Meter reads total cathode current to final  
amplifier in Positions 4 and 5.

V F O:            Driven by a planetary drive on 3.5, 7, 14, 21 and 28 Mc.  
ranges. Not operative in the 50 Mc. band. Two sockets  
are provided for 6- meter crystals or external VFO.

Spot:            Toggle switch turns VFO on for monitoring frequency  
in receiver. Also functions with crystals when they  
are used.

Grid:            With function switch in "tune" position, this control  
is adjusted for maximum grid current, as indicated by  
the tuning meter.

Drive:            3 positions, marked "1-2-3", indicating low, medium  
and high respectively. After tuning "grid" for  
maximum grid current, the drive control is set to  
the position which falls within the grid current  
range on the meter scale.

Plate:            Tunes final plate circuit. With the function switch  
in low or high power, or CW position, tune plate con-  
trol for dip in meter indication.

Loading:         Output capacitor of pi matching system. Adjust for increase  
in TUNE position for meter reading of 2 or 3 on the meter  
scale. adjust for final cathode current of 150 MA max,  
"plate" tuned for dip, function switch in high power position.

Main  
Supply Switch: Heavy-duty toggle turns supply on or off.

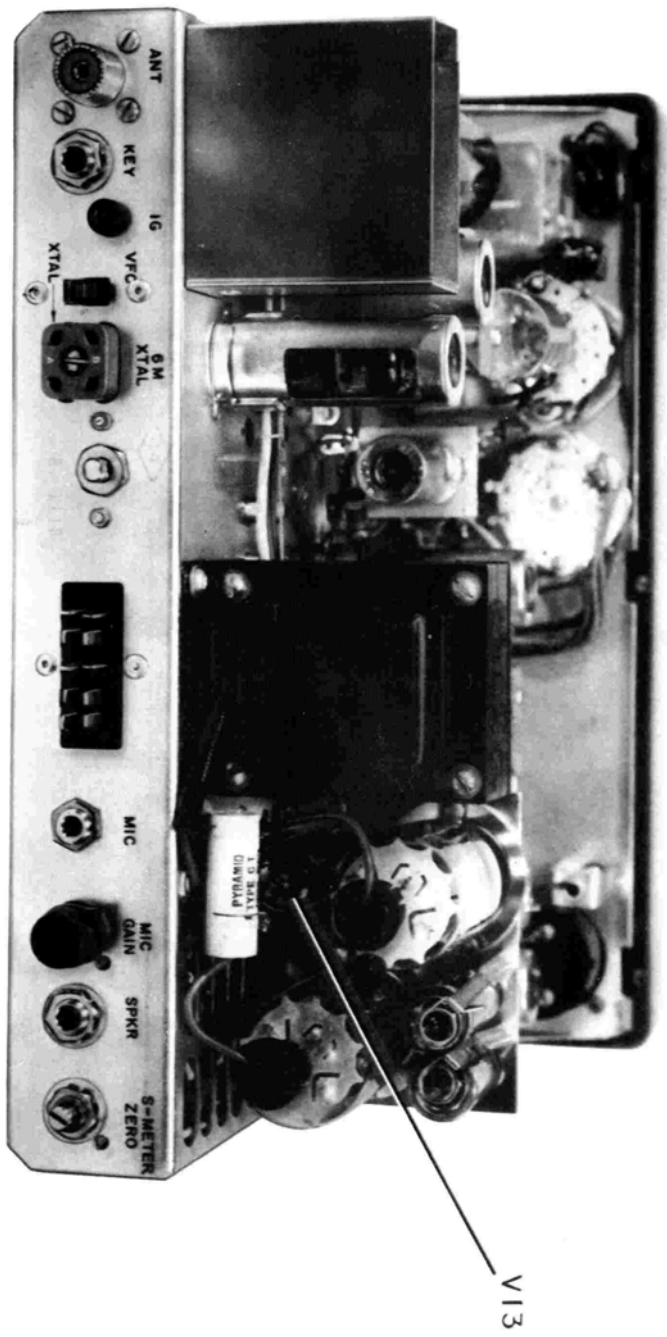


FIG. 3 REAR VIEW

## REAR CONTROLS

CW Key  
Jack: Driver Cathode Keying

Test  
Jack: Final amplifier grid current. For metering grid current when final is operating. (Grid current is metered with panel meter when function switch is in "tune" position, but not when final is actually operating.)

VFO/Crystal  
Switch: For switching from VFO to crystal operation.

Crystal  
Socket: Dual type for low frequency bands and 6-meter band. (VFO does not operate in 6-meter, 50 Mc. band.)

NOTE: Two crystals may be inserted in this dual socket for 6 meters, and selection between them made with the VFO crystal switch.

Power Connector  
Plug

Microphone  
Jack

Microphone  
Gain Control

Speaker  
Jack

S Meter  
Zero Adjust

Antenna  
Connector Jack UHF, coax type SO-239.

## INSTALLATION

After unpacking the Gonset G-76 Transceiver, check to make sure all tubes are in place. Check all controls for normal movement. Turn main power switch to OFF position.

For fixed-station operation, connect the Gonset G-76 A.C. power supply by:

- (1) Connecting Plug P1 at back of chassis.
- (2) Connecting A.C. cord to power line.

For mobile operation, connect the Gonset G-76 D.C. power supply by:

- (1) Connecting Plug P1 at back of chassis.
- (2) Connecting positive and negative terminals of power supply to 13.4 volt D.C. source.
- (3) Connecting 3.2 ohm speaker to speaker jack at back of chassis.

High voltage to final amplifier and modulator does not appear anywhere in the transceiver proper until the T/R relays close. A relay built into the A.C. power supply, and the D.C. power supply, disconnects the H.V. lead from the supply and grounds it. Thus, when in receive position, the highest voltage present in the transceiver is the nominal 275 volts D.C. from the medium voltage supply. The protective H.V. relay in the power supply is energized when the T/R relays in the transceiver close.

The T/R relay will not operate when the transmitter function switch is in the "FIL OFF" position. In this position, heater current to the modulators and final amplifier is disconnected, conserving battery power when receiving only, and also preventing accidental tripping of the T/R button of the microphone.

The T/R relays will not operate when the VFO "SPOT" switch is on. The transmitter will not operate in the "SPOT" position due to lack of excitation, and final amplifier tube failure could occur before it is realized that the VFO switch was unintentionally left on the "SPOT" position. With the built-in safety feature, the T/R relays will not function until the VFO switch is down in the operate position.

The A.C. power supply includes a high voltage slo-blo fuse to protect it from high voltage short circuits, as well as a fused line plug.

## RECEIVER OPERATION

### Amplitude Modulated Signals:

- (A) Supply Switch.....On.
- (B) T/R Switch.....Receive position.
- (C) Function Control.....Position 2.
- (D) ANL.....OFF or ON, as required.
- (E) Bandswitch #1.....Set to desired range.
- (F) Bandswitch #2.....Set to desired range.
- (G) Tuning Dial.....Adjust for maximum "S" meter reading on desired signal.
- (H) Plate and Loading Adjustment.....When using the G-76 for receiving only, the Pi network should be adjusted for maximum "S" meter reading on a signal.  
IMPORTANT: See Note (4) Operating Notes.
- (I) Volume Control.....Set to desired volume level.

### Single Sideband Signals:

- (A) Supply Switch.....On.
- (B) T/R Switch.....Receive position.
- (C) Function Control.....Position 3.
- (D) Bandswitch #1.....Set to desired range
- (E) Bandswitch #2.....Set to desired range.
- (F) BFO Frequency.....Set to "U" for upper sideband, or "L" for lower sideband.
- (G) Tuning Dial.....Adjust for most natural voice quality.
- (H) Volume Control.....Set to desired volume level.

### CW Code Signals:

- (A) Supply Switch.....On.
- (B) T/R Switch.....Receive position.
- (C) Function Control.....Position 3.
- (D) Bandswitch #1.....Set to desired range.
- (E) Bandswitch #2.....Set to desired range.

- (F) BFO Frequency ..... Set to either "U" or "L" mark.
- (G) Tuning Control..... Adjust for maximum loudness of desired CW signal. Then go back to the BFO control and set it for desired pitch. This adjustment need only be made when it is found desirable to change pitch.
- (H) Volume Control..... Set to desired volume level.

OPERATING NOTES:

- (1) To check tuning dial calibration accuracy, switch the calibrator on (receiver function control, Positions 1 or 4), and locate the nearest 100 Kc. marker signal on the dial. Ordinarily the dial set control will set very close to 12 o'clock (straight up) when the tuning dial is reading correctly. With long-term aging effects, humidity, etc., dial accuracy may gradually shift, requiring compensation with the dial set control to varying degrees on each band. Eventually, the oscillator adjustments should be reset to restore original dial accuracy (See alignment procedure). These effects are generally spread over many months of operation. Note that the 100 Kc. calibrator (Gonset Model 3269) is an optional plug-in accessory and must be purchased as an extra.
- (2) If it is not known which sideband a station is transmitting, it may be necessary to first try one side, and then the other. It will be found that when the BFO is set to the wrong side, the signal cannot be tuned to an understandable point. In such a case, move the BFO control to the other side, and adjust the tuning dial again until a natural voice is heard.
- (3) Pi input circuit (plate tuning and loading) may be adjusted for maximum sensitivity. However, these adjustments are more effectively made while adjusting the transmitter.
- (4) Whenever the Pi controls have been adjusted for transmitting on a particular band, DO NOT READJUST WHEN RECEIVING. These controls are fairly broad for receiving, and each amateur band may be tuned over the entire range without readjustment. For transmitting these controls are quite sharp and critical. Thus, once they are adjusted for transmit, they should be left alone while receiving.



## TRANSMITTER OPERATION

CAUTION: The following steps must be followed in sequence to prevent damage to the final amplifier.

### Amplitude Modulated Signals:

- (A) Power Switch.....On.
- (B) Tune receiver to desired frequency.
- (C) Spot Switch.....Spot position and adjust VFO for maximum meter indication.
- (D) Spot Switch.....Off.
- (E) Loading Control.....Minimum or CCW.
- (F) Transmitter Function Switch..."Tune" Position.
- (G) Drive Control.....Position 1 on 80, 40 & 20 meters.  
Position 2 or 3 on 10, 15 & 6 meters.
- (H) T/R Switch.....Transmit position.
- (I) Grid Tuning.....Maximum meter indication.
- (J) Drive Control.....Set to position corresponding to IG range on meter scale. (NOTE: Minimum of 1/2 to 2 miles as measured at IG meter jack on rear of unit).
- (K) Transmitter Function Switch...Low Power
- (L) Plate Tuning.....Quickly adjust for sharp dip in meter reading.
- (M) Plate Loading.....Increase gradually while adjusting plate control for meter dip until meter reads between 2 and 3.
- (N) T/R Switch.....Off
- (O) T/R Function Switch.....High Power
- (P) T/R Switch.....ON
- (Q) Loading Control.....Increase gradually while adjusting plate control for meter dip, until meter reads 150 MA max.

### Caution

Do not change function switch from low to high or high to low power with T/R switch in "ON" position.

### CW Signals:

- (A) Follow above steps for amplitude modulated signals.
- (B) Transmitter Function Switch.....CW position.

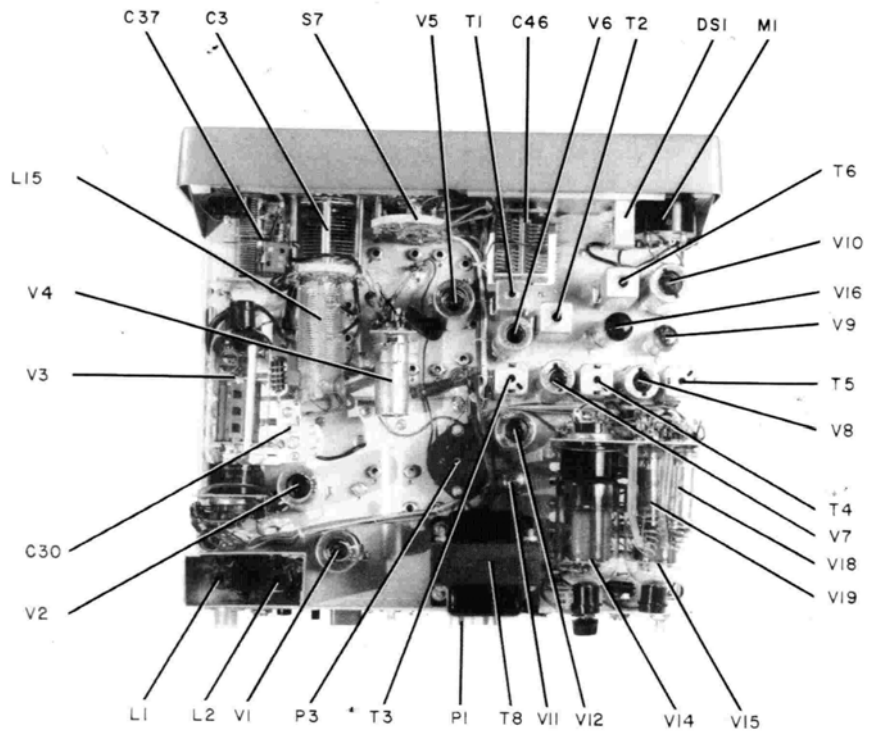


FIG. 4 CHASSIS, TOP VIEW

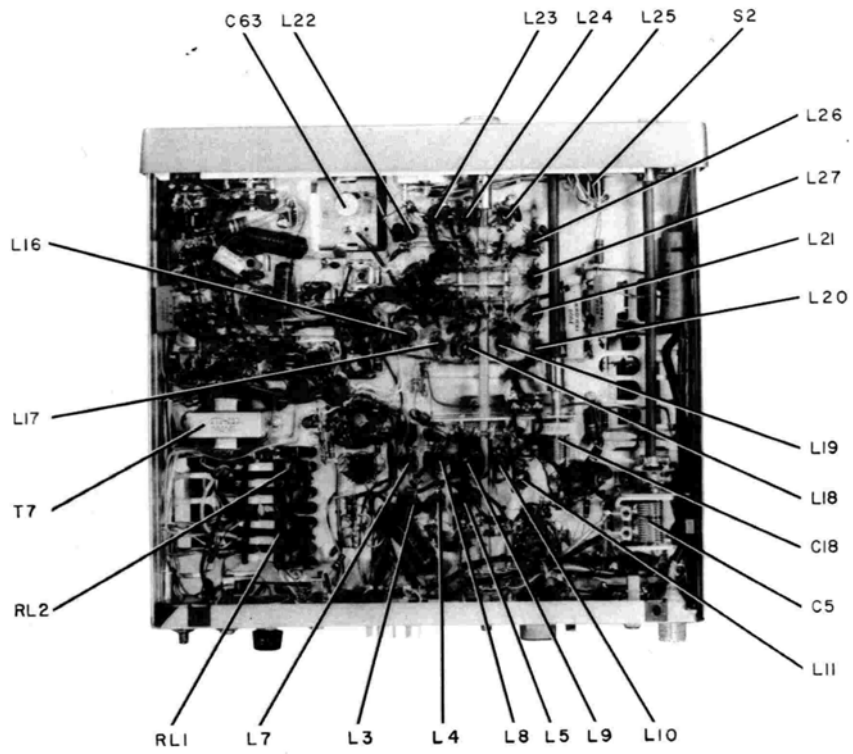


FIG. 5 CHASSIS, BOTTOM VIEW

## RECEIVER ALIGNMENT

(Trans. Function Switch at "FIL.OFF")

### Step #1

262 Kc. I.F. (1) Connect Signal Generator to Pin 7 of 6BE6 (V6). Use blocking capacitor to protect generator. Approximately .01 mfd. Peak I.F. transformers, T3, T4 and T5 top and bottom, for maximum AVC. Receiver function switch in "AM" position.

(2) After peaking T3, T4 and T5, switch receiver function to "CW-SSB". Set BFO control to 12 o'clock. Adjust T6 (top adjust. only) for zero beat with signal generator. (Generator still set to 262 Kc.)

### Step #2

2065 Kc. I.F. Receiver Function set to "AM".

(1) Connect Signal Generator to Pin 2 of 6U8A (V5). Set generator frequency to exactly 2065 Kc. Adjust 2327 Kc. Oscillator (T2) until signal appears.

(2) With Signal Generator set to 2065 Kc., adjust transformer, T1, Top and Bottom, for peak AVC.

### Step #3

50 Mc. band alignment...Connect Signal Generator to antenna connector on rear of chassis. Bandswitches both set to "50 Mc." position. Receiver function selector set to "AM" position. Dial set control at 12 o'clock. Set receiver tuning dial to 50 Mc. position. Set signal generator to exactly 50 Mc. (Or, preferably, use a crystal-controlled signal at 50 Mc., or some sub-multiple of 50 Mc.)

(1) Adjust receiver oscillator coil, L27, until signal tunes in at 50 Mc. point on tuning dial.

(2) Set signal generator to exactly 54 Mc. and check high frequency end of tuning dial. Signal should appear at 54 Mc. mark. If it does not, adjust trimmer, C63, until it does.

(3) Go back and check 50 Mc. By adjusting coil, L27, at 50 Mc., and trimmer, C63, at 54 Mc., repeat until 50 and 54 Mc. appear at their respective markings on the dial.

(4) Adjust coil, L21, for maximum AVC voltage.

(5) Recheck 50 and 54 Mc. points for possible interaction from L21 adjustment.

(6) Pi input circuit (plate tuning and loading) may be peaked for maximum AVC, although this is not essential unless sensitivity measurements are being conducted.

Step #4

Alignment, HF bands...After the 50 Mc. VHF band has been properly aligned, as per Step 3, the other bands may be aligned. Following the accompanying chart, adjust the oscillator and mixer coils at the given frequencies.

<u>Band</u>	<u>Sign.Gen. Freq.</u>	<u>Oscillator Coil</u>	<u>Mixer Coil</u>
28 Mc.	23.7	L26	L20
21	21.3	L25	L19
14	14.2	L24	L18
7	7.2	L23	L17
3.5	3.8	L22	L16

Adjust the oscillator coils until the generator signal appears at the correct dial position. Then adjust the mixer coil for maximum signal. Finally, recheck the oscillator setting for possible interaction from mixer tuning.

Note that the 5 HF bands have only one oscillator adjustment. Trimmer C63 is to be used only for tracking the 50-54 Mc. band, after which the HF bands should track closely. If any of the HF bands do not track closely, it means that capacity tolerances are off, and a capacitor change may be necessary.

The Pi input circuit need not be tuned for peak signal when adjusting the oscillator or mixer. For sensitivity measurements, however, the Pi network should be set to the proper band, and adjusted for maximum signal.

Sensitivity of the G-76 receiver section will measure approximately 6 db signal-plus-noise to noise ratio with an input of 1 microvolt at 50 ohms.

Image Rejection, typical figures:

60 db at 3.5 Mc.  
60 db at 7 Mc.  
50 db at 14 Mc.  
45 db at 21 Mc.  
40 db at 28 Mc.  
30 db at 50 Mc

The primary image will occur at a frequency 4.13 Mc. higher than the desired signal, except in the 50-54 Mc. band, where the image will occur 4.13 Mc. below the signal.

Selectivity: 3 Kc. at 6 db down, nominal. Less than 14 Kc. wide at 60 db down.

## TRANSMITTER ALIGNMENT

### Step #1 - VFO Adjustment

(1) Set bandswitches to 7 Mc. and receiver function switch to A.M. Set receiver tuning dial to 7 Mc. Set VFO crystal switch on rear of chassis to VFO position. Throw VFO spot switch up to "SPOT" position. Set VFO control to 7 Mc. and adjust L1, top of rear - right shield can, until a strong signal is received. This adjustment sets the VFO frequency for the 3.5-4 and 7-7.3 Mc. bands.

(2) Set bandswitches to 14 Mc., receiver function to A.M., and receiver tuning dial to 14 Mc. Set VFO control dial to 14 Mc. and throw switch to "SPOT" position. Adjust L2, top of shield can next to L1, until a signal is received. This adjustment sets the VFO for the 14-14.35, 21-21.45 and 28-29.7 Mc. bands.

NOTE: The 50 Mc. band does not use the VFO, but requires a crystal of 8.334 to 9 Mc. frequency inserted in the upper crystal position at the back of the chassis. Crystals may be used on the lower HF bands by inserting them in the lower crystal position, and switching the rear slide switch down to the "Xtal" position.

### Step #2 - Oscillator Plate and Multiplier Adjustment

(1) 80 Meters...set transmitter function switch to "TUNE" position, "SPOT" switch down, bandswitches at 3.5 Mc. position, and VFO dial at 7 Mc. Set "DRIVE" control at Position #1. Throw T/R toggle switch up to the transmit position. In the tune position, only the 12BY7's in the oscillator and multiplier stages are functioning, so there is no concern for the final amp. or modulator at this time. Adjust the "Grid" tuning for maximum meter indication. At 4 Mc. the grid tuning capacitor should be nearly open. The adjustable core of L7 should be left at a position where both 3.5 and 4 Mc. can be peaked with the grid tuning dial.

(2) 40 Meters...set bandswitches to 7 Mc. position, and VFO dial to 7 Mc. with T/R switch in "T" position, adjust "Grid" tuning for maximum meter reading. This should occur with the grid tuning capacitor about 80% meshed. Adjust Coil L8 for this condition. Now, set the VFO to approximately 7.2 Mc. and adjust Coil L3 for maximum meter reading. L3 is the oscillator plate coil.

(3) 20 Meters...set bandswitches to 14 Mc. and VFO dial to 14 Mc. With the T/R switch up in the "T" position, adjust grid tuning for maximum meter reading. This will occur with the grid tuning capacitor about 80% meshed. Coil L9, associated with this band, is not adjustable. This test merely serves as a check on L9 and its associated capacitor C21.

(4) 15 Meters...set bandswitches to 21 Mc. and VFO dial to 21.25 Mc. With the T/R switch in "T" position, adjust grid tuning for maximum meter reading. This should occur with the grid tuning capacitor about 25% meshed. Now adjust Coil L4, the oscillator plate coil for maximum meter reading.

(5) 10 Meters...set bandswitches to 28 Mc. and VFO to 29 Mc. With T/R switch in "T" position, adjust grid tuning for maximum meter reading. This will occur with the grid tuning capacitor about 25% meshed. Now adjust Coil L5, the oscillator plate coil, for maximum meter reading.

(6) 6 Meters...set bandswitches to 50 Mc. Insert a 6-meter crystal in upper crystal socket. Its frequency must be between 8334 and 9000 Kc., preferably somewhere in the lower part of this range. Switch to "T" position and adjust grid tuning for maximum meter reading. This will occur with the grid tuning capacitor about 25% meshed.

Step #3 - Final Power Amp. Adjustment

(1) Connect dummy load, 52 ohm impedance to antenna jack.

(2) Set neutralizing capacitor tentatively to about 25% mesh.

(3) Set bandswitches to 3.5 Mc., VFO dial to 3.8 Mc., tune grid circuit, as per preceding instructions. After peaking grid current (meter reading) with the grid tuning dial, set the drive control to position which provides a meter reading nearest to the "1G" range on the meter scale. On 80 meters, this will most likely be with drive in Position 1.

(4) Turn the loading control to minimum, CCW position. Now set the transmitter function switch to low power, and T/R switch to "T" position. Quickly adjust plate tuning for a sharp dip in meter reading (1P). Now switch to high power position. CAUTION: Dangerous voltages are present in the circuitry at this time. Keep hands out!

The output power indicator (watt meter) should now be indicating about 30 watts of power. Gradually increase the loading control, at the same time carefully tuning the plate control for meter dip, until the meter reads 150 to 160 MA. This is the operating range for A.M. phone in the high power position. Power input to the 6DQ5 is now approximately 100 watts.

(5) Repeat the above procedure on each of the other bands. Always keep the plate tuning adjusted for the dip in meter reading, particularly in the high power position, as the 6DQ5 can be seriously overloaded if this is not done.

(6) Neutralization. This adjustment must be a compromise, since it changes slightly between bands. Tentatively, make neutralizing checks on 15 meters first. Adjust the trimmer C30 until the meter reading does not increase sharply under modulation. Preferably, it should not increase at all. Grid tuning will have some reaction on this adjustment.

(7) 6-meter neutralization employs a feedback link which must also be adjusted for minimum increase of meter reading. This link is not a critical adjustment, but polarity must be correct. The twisted line which connects the links is color coded. If connected the wrong way, the amplifier will, of course, be extremely unstable on 6 meters.

(8) Modulation. Set the Mic. Gain to about its mid-point and insert a high impedance mike (Gonset 3240) in the jack. The swing in modulator plate current will not show on the front panel meter. The percentage of modulation should be checked by some external means.

(9) A test jack on the chassis rear may be used for metering grid current when final amp. is operating. Nominal grid current is 2 MA.

# TRANSMITTER VOLTAGE CHART

## 14 Mc. Band - VFO Control

Tube	P i n N u m b e r s									
	1	2	3	4	5	6	7	8	9	
(Spot Switch UP)										
V1 12BY7A	0	-7	0	0	12.6AC	6.3AC	+110	+105	0	
V2 12BY7A	0	-10	0	0	12.6AC	6.3AC	+12	+.5	0	
(Tune Position - 6DQ5 and 6DQ6's not operating)										
V1 12BY7A	0	-11	0	0	12.6AC	6.3AC	+260	+150	0	
V2 12BY7A	0	-15	0	0	12.6AC	6.3AC	+260	+100 Lo +140 M +210 Hi	0	
V3 6DQ5	-50	0	0	-7	-50	0	6.3AC	-7	Cap -7	
(Lo Power Position - 6DQ5 and 6DQ6's operating at med.voltage)										
V3 6DQ5	-43	0	+1	+55	-43	+1	6.3AC	+55	Do not meas. Cap	
V12 12AX7	+100	0	+1	0	12.6AC	+84	-7	0	6.3AC	
V15-16 6DQ6's	0	12.6AC	X	130V RMS When Whistling Into Mike		0	0	6.3AC	0	Cap +225
(Hi Power Position - 6DQ5 and 6DQ6's operating at high voltage)										
V3 6DQ5	-45	0	+4	+115	-45	+4	6.3AC	+115	Do not meas. Cap	
V15-16 6DQ6's	0	12.6AC	X	130V RMS When Whistling Into Mike		0	0	6.3AC	0	Cap +625 (Caution)



## RECEIVER VOLTAGE CHART

<u>Tube</u>	<u>P i n N u m b e r s</u>								
	1	2	3	4	5	6	7	8	9
V4 6BZ6	-2.5	0	6.3*	0	+250	+140	0	---	---
V5 6U8A	+35	-2	+35	6.3*	0	+275	0	0	-2
V6 6BE6	-7	0	12.6*	6.3*	+265	+100	-2	---	---
V7 12BA6	-2.5	0	0	12.6*	-215	+85	+1.2	---	---
V8 12BA6	0	0	12.6*	0	+245	+70	+1.7	---	---
V9 12AL5	0	-1.6	0	9*	-.5	0	-2.7	---	---
V10 12AU7	+240	0	+85	0	12.6*	+40	0	+2	6.3*
V11 0B2	+105	0	0	0	+105	0	0	---	---
V12 12AX7	-.7	-.7	0	0	12.6*	+90	-.7	0	6.3*
V13 6CM6	+275	+17	0	12.6*	6.3*	0	+17	0	+265

Bandswitch at 14 Mc.  
 Receiver Function Switch at "AM CAL."  
 Transmitter Function Switch at "FIL OFF"  
 Antenna Disconnected.  
 \*A.C. volts

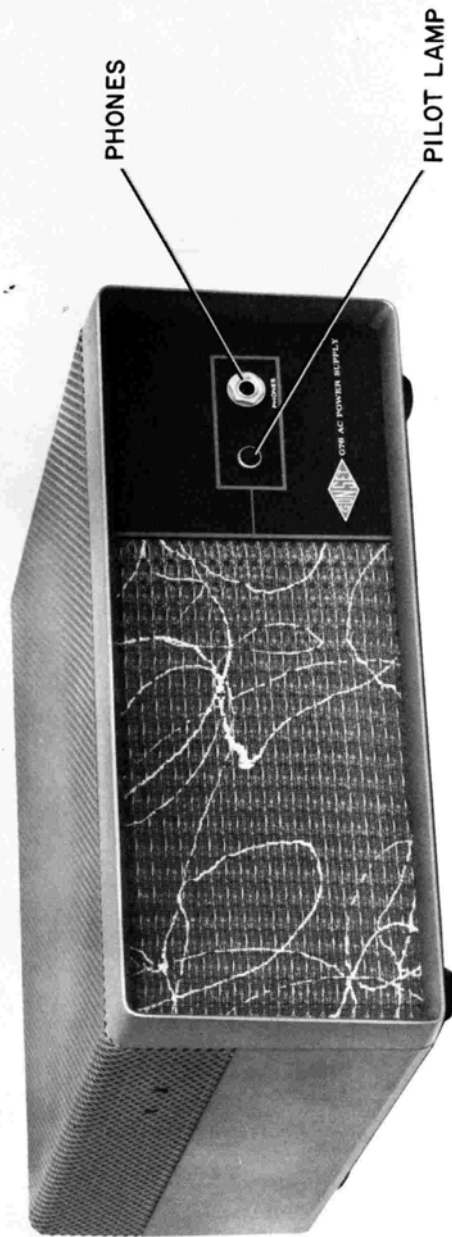


FIG. 6, A.C. POWER SUPPLY

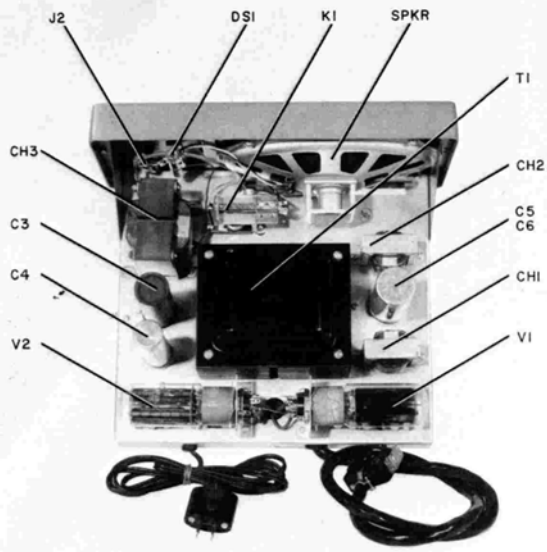


FIG. 7 A.C. POWER SUPPLY, TOP VIEW

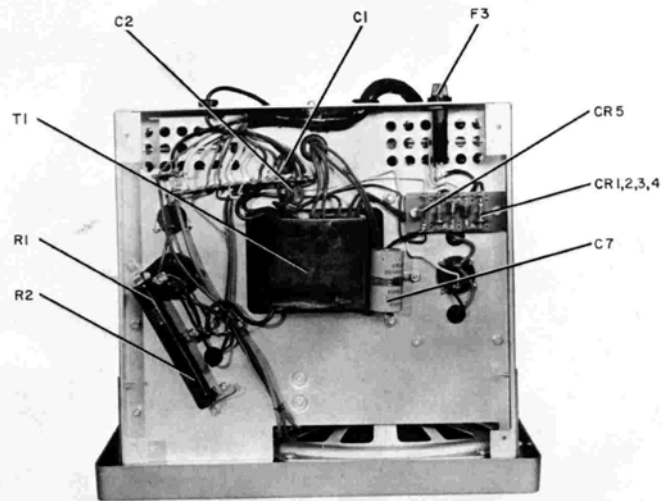
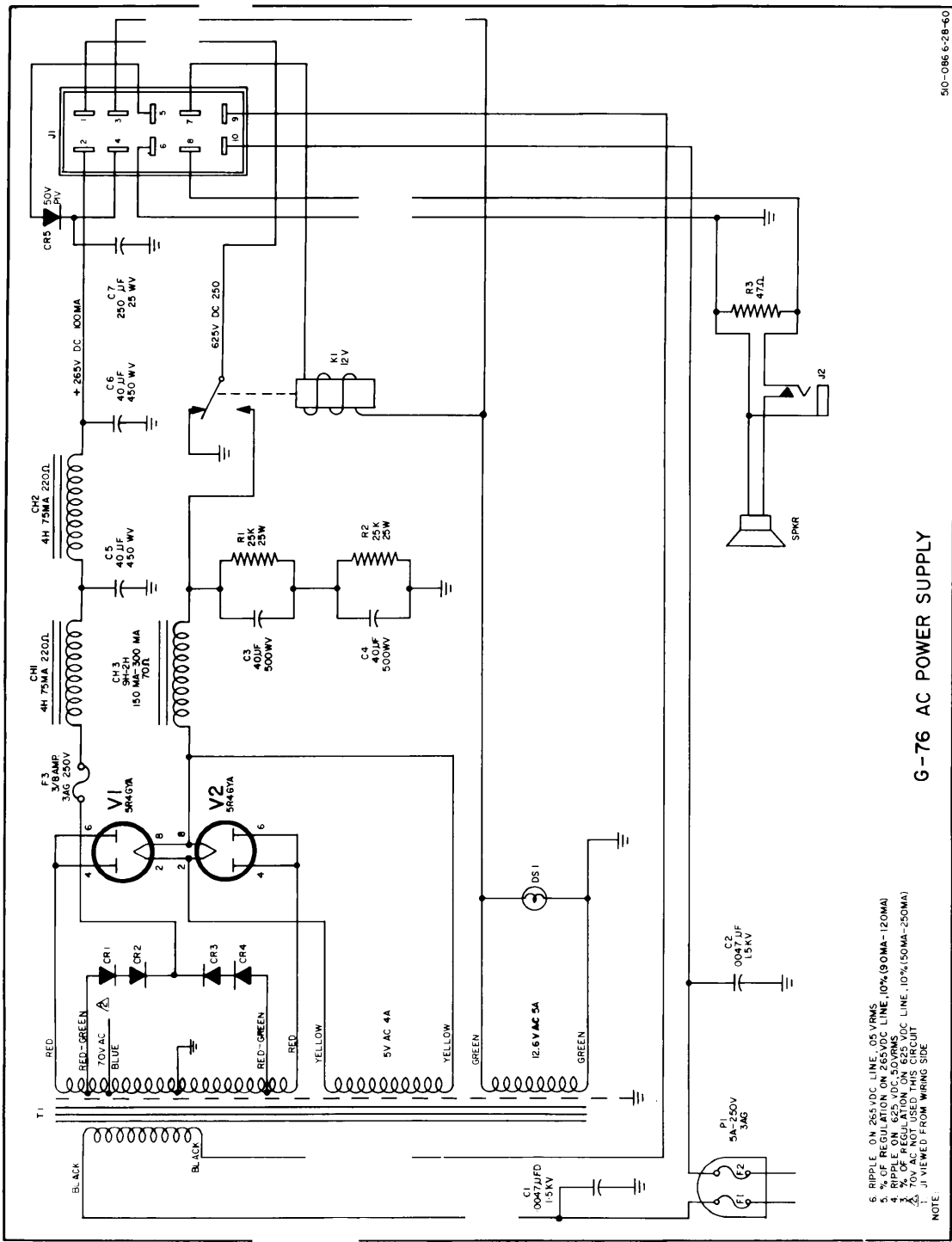


FIG. 8 A.C. POWER SUPPLY, BOTTOM VIEW



- 6. RIPPLE ON 265VDC LINE .05 VRMS
- 5. % OF REGULATION ON 265VDC LINE .10%(90MA-120MA)
- 4. RIPPLE ON 625VDC LINE .50VRMS
- 3. % OF REGULATION ON 625VDC LINE .10%(50MA-250MA)
- 2. 70V AC NOT USED THIS CIRCUIT
- 1. J1 VIEWED FROM WIRING SIDE

NOTE

### G-76 AC POWER SUPPLY

## G-76 AC POWER SUPPLY SPECIFICATIONS

Power Requirements:	Transmit - 117 VAC at 3 amps. Receive - 117 VAC at 1.5 amps.
High Voltage Output:	600 VDC at 250 MA. Regulations 10%, Ripple 5.0 VRMS  265 VDC at 120 MA. Regulation 10%, Ripple .05 VRMS
Filament Output:	12.6 VAC @ 5 amps.
Dimensions:	12-5/8" wide, 5-1/8" high, 10-1/2" deep.
Fuses:	2-5 amp. 250 V. 3 AG 1-3/4 amp. 250 V. 3 AG

## G-76 DC POWER SUPPLY SPECIFICATIONS

Power Requirements:	Transmit - 13.4 VDC at 22.5 amps. Receive - 13.4 VDC at 10 amps.
High Voltage Output:	600 VDC at 300 MA. Regulation 10%, Ripple 2.5 VRMS  250 VDC at 130 MA. Regulation 10%, Ripple .8 VRMS.
Filament Output:	D.C. input carried through.
Dimensions:	8.18" wide, 3-1/2" high, 6-1/2" deep.
Fuses:	2-30 amp. suggested.

### SHIPPING WEIGHT

D.C. Power Supply:	10 pounds
A.C. Power Supply:	32 pounds

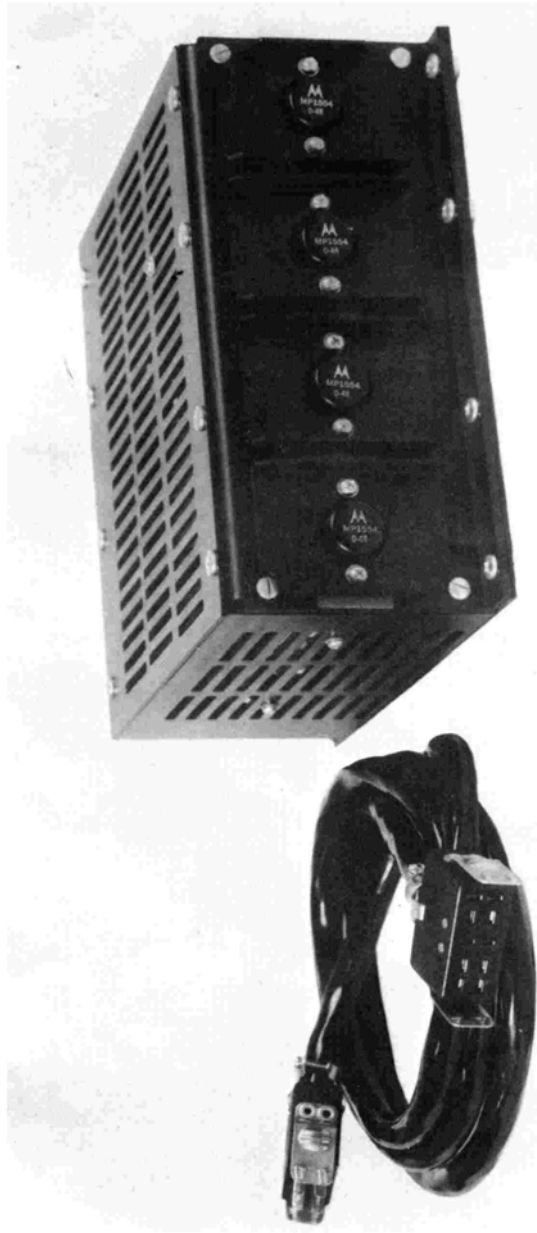


FIG. 9 D. C. POWER SUPPLY

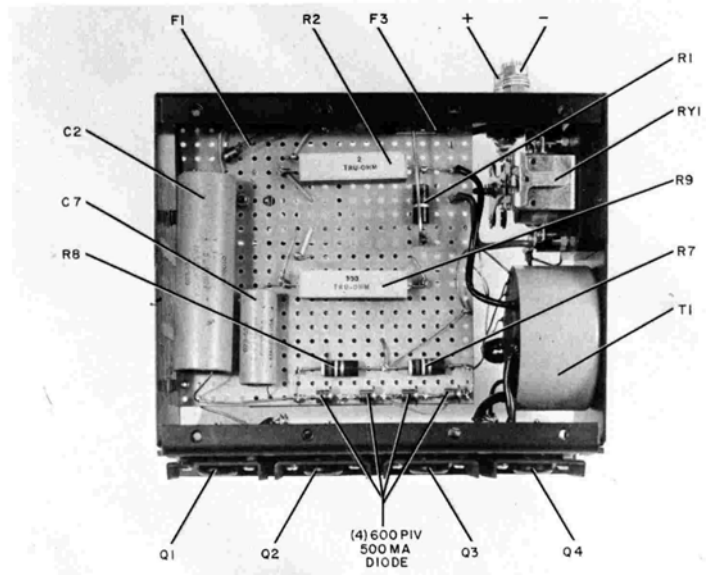


FIG. 10 D.C. POWER SUPPLY, TOP VIEW

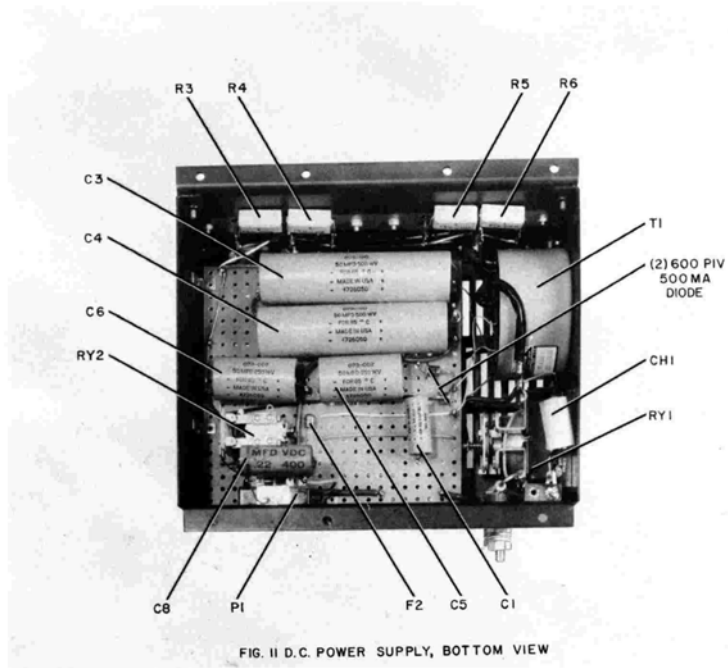
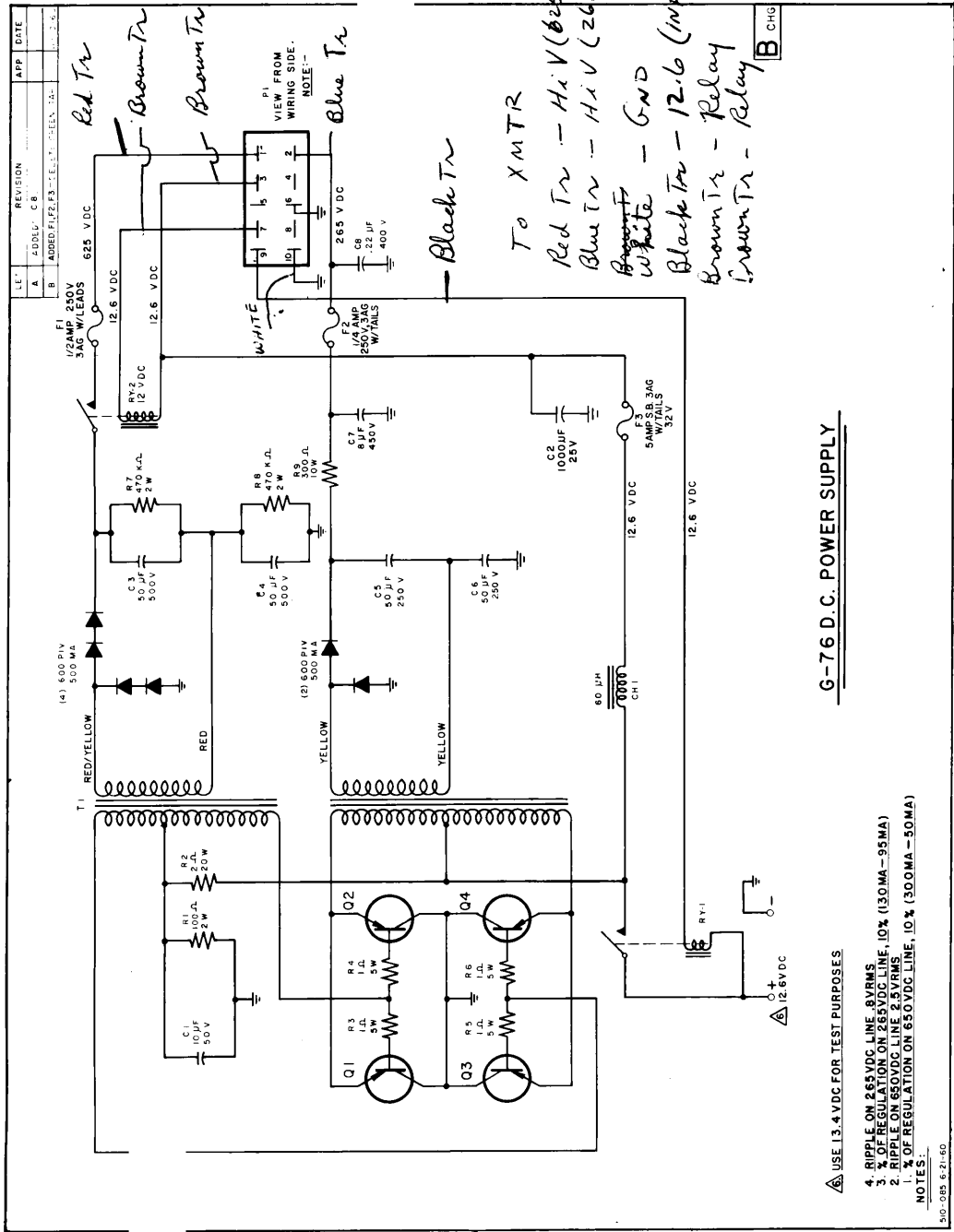


FIG. 11 D.C. POWER SUPPLY, BOTTOM VIEW

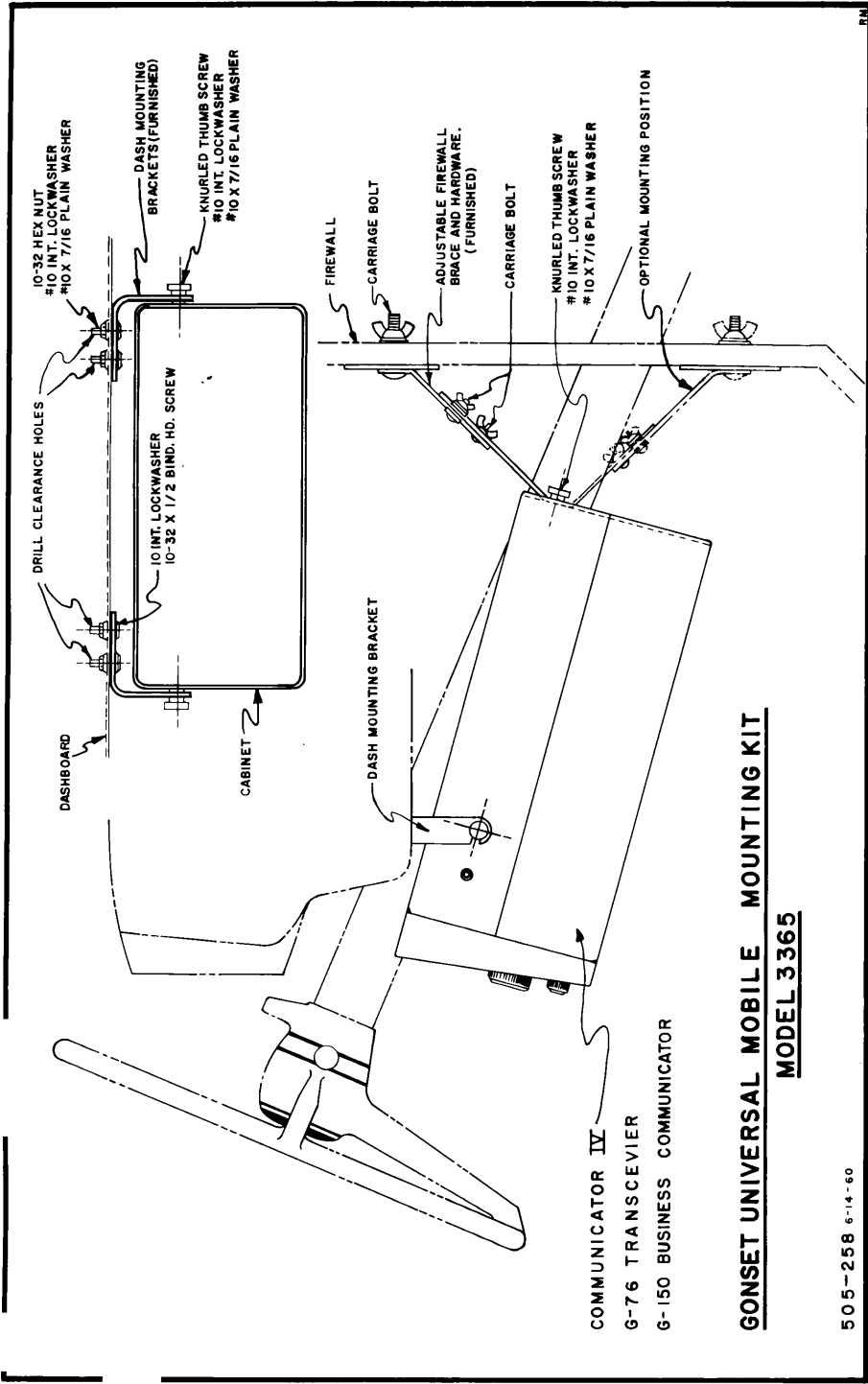




MISCELLANEOUS COMPONENTS			D.C. POWER SUPPLY		
Schematic No.	Description	Gonset Part No.	Schematic No.	Description	Gonset Part No.
RFC 1	R-F Choke, 200 $\mu$ H	027-017	R1	100 $\Omega$ 2 watts	064-101
RFC 2	R-F Choke, 200 $\mu$ H	027-017	R2	2 $\Omega$ 20 watts	069-084
RFC 3	R-F Choke, 50 $\mu$ H	027-018	R3	1 $\Omega$ 5 watts	069-080
RFC 4	R-F Choke, 200 $\mu$ H	027-017	R4	1 $\Omega$ 5 watts	069-080
RFC 5	R-F Choke, 80 $\mu$ H	027-081	R5	1 $\Omega$ 5 watts	069-080
RFC 6	R-F Choke, 200 $\mu$ H	027-017	R6	1 $\Omega$ 5 watts	069-080
RFC 7	R-F Choke, 2.2 $\mu$ H	027-053	R7	470 $\Omega$ 2 watts	064-474
S1	Band Switch Shaft Assembly only	171-110	R8	470 $\Omega$ 2 watts	064-474
S1A	Receiver Osc. Plate Wafer	171-111	R9	300 $\Omega$ 10 watts	069-088
S1B	Receiver Osc. Grid Wafer	171-112			
S1C	Receiver Mixer Grid Wafer	171-112			
S1D	Receiver R-F Plate Wafer	171-111	C1	10 $\mu$ F 50 V.	073-131
S1E	Transmitter Final Grid Wafer	171-113	C2	1000 $\mu$ F 25 V.	073-132
S1F	Transmitter Osc. Plate Wafer	171-113	C3	50 $\mu$ F 500 V.	073-130
S1G	VFO R-F Section	171-114	C4	50 $\mu$ F 500 V.	073-130
S1H	VFO L-F Section	171-114	C5	50 $\mu$ F 250 V.	073-007
S2	VFO-Crystal Switch DPDT	172-002	C6	50 $\mu$ F 250 V.	073-007
S3A-B	Osc. Spot Switch	172-045	C7	8 $\mu$ F 450 V.	073-030
S4	Drive Control Switch	171-106	C8	.22 $\mu$ F 400 V.	085-032
S5	Bandswitch, Antenna Tuner Switch	171-108			
S6	Receiver Function Switch	171-109	F1	1/2 Amp 250 V. 3 AG W/Leads	482-062
S7	Transmitter Function Switch	171-107	F2	1/4 Amp 250 V. 3 AG W/Leads	482-061
S8	Transmit-Receive Switch	172-010	F3	5 Amp 32 V. 3 AG SK W/Leads	482-060
S9	Power On-Off Switch	172-010			
RL1 A-B-C	Relay 3P2T, 6 VDC	111-090	K1	Relay Input	111-095
RL2 A-B-C	Relay 3P2T, 6 VDC	111-090	K2	Relay P+	111-093
			CH1	Hash Choke	027-027
			T1	Transformer	271-082
M1	Meter	112-035	CR1	Silicon Rectifier	474-022
J1	Antenna Connector Receptacle	344-011	CR2	Silicon Rectifier	474-022
J2	Grid Test Tip Jack	342-018	CR3	Silicon Rectifier	474-022
J3	Key Jack, Closed Circuit	342-001	CR4	Silicon Rectifier	474-022
J4	Speaker Jack, Closed Circuit	342-001	CR5	Silicon Rectifier	474-022
J5	Microphone Jack, 3-Circuit	342-002	CR6	Silicon Rectifier	474-022
P1	10-Pin Connector Receptacle	344-173	O1	Transistor	476-006
P2	Dual Crystal Socket	345-008	O2	Transistor	476-006
P3	Crystal Calibrator Accessory Socket	341-518	O3	Transistor	476-006
			O4	Transistor	476-006
DS1	Dial Lamp #1815	471-004	P1	Power Connector	344-181
SD1	Selenium Diode 92 PIV	475-012		Chassis Frame	443-065
				Top Plate	443-066
				Potentiometer	443-067
Z1	Printed Noise Limiter Circuit	069-004		Power Cable	678-039

ELECTRON TUBES			A.C. POWER SUPPLY		
Schematic No.	Description	Gonset Part No.	Schematic No.	Description	Gonset Part No.
V1	12BY7A	472-029	R1-2	50 KD 50 WCT	049-086
V2	12BY7A	472-029	R3	47 $\Omega$ 1/2 watt	042-470
V3	6X6	472-101			
V4	6X6	472-041	C1	.0047 $\mu$ F 1.5 KV Disc	072-215
V5	68A	472-005	C2	.0047 $\mu$ F 1.5 KV Disc	072-215
V6	68A	472-005	C3	40 $\mu$ F 500 WVDC Insulated	073-129
V7	12BA6	472-063	C4	40 $\mu$ F 500 WVDC	073-009
V8	12BA6	472-063	C5-6	2 x 40 $\mu$ F 450 WVDC	073-029
V9	12AL5	472-055	C7	250 $\mu$ F 25 WVDC	073-028
V10	12AU7A	472-094			
V11	012	472-049	K1	Relay	111-092
V12	12AX7	472-022	CH1	Filter Choke	274-002
V13	6C96	472-038	CH2	Filter Choke	274-002
V14	6D06B	472-511	CH3	Filter Choke	274-023
V15	6D06B	472-511	T1	Power Transformer	271-079
V16	0B2	472-032			
V17	12AO5	472-065	CR1	Silicon Rectifier 600 PIV @ 500 Ma.	474-022
V18	0B2	472-032	CR2	Silicon Rectifier 600 PIV @ 500 Ma.	474-022
			CR3	Silicon Rectifier 600 PIV @ 500 Ma.	474-022
			CR4	Silicon Rectifier 600 PIV @ 500 Ma.	474-022
			CR5	Silicon Rectifier 50 PIV @ 500 Ma.	474-004
			F1	5 Amp @ 250 V. 3 AG	482-002
			F2	5 Amp @ 250 V. 3 AG	482-002
			F3	3/8 Amp @ 250 V. 3 AG	482-063
			V1	Tube 3R4GYA	472-535
			V2	Tube 3R4GYA	472-535
				Cable Assembly	678-041
				A.C. Cord	696-014
				Speaker 2.3 $\Omega$	152-020
				Filter Light Assembly	351-041
				Front Panel Assembly	453-482
				Cabinet Weldment	465-085
				Phone Jack	342-001

REPLACEMENT PARTS LIST		
Gonset Part No.	Description	No. Req.
212-019	Knob, Vitch Pointer	1
201-430	Washer, Felt	1
211-006	Knob, Medium (W/Index)	9
211-007	Knob, Small (W/Index)	1
211-005	Knob, Large (W/Index)	1
212-004	Knob, Large	1
212-053	Knob, Medium	1
465-084	Cabinet Weldment	1
114-007	Planetary Drive Assembly (VFO)	1
351-040	Dial Lamp Socket	1
112-035	Meter	1
463-005	Panel (Die Cast)	1
505-251	Front Panel	1
520-535	Instruction Manual	1
505-253	Dial Receiver	1
505-226	VFO Dial	1
505-267	Dial Window	1



**GONSET UNIVERSAL MOBILE MOUNTING KIT**  
**MODEL 3365**

505-258 6-14-60

CAPACITORS			RESISTORS		
(All resistors 1/2 watt composition Tol.±10% unless otherwise specified)					
Schematic No.	Description	Conset Part No.	Schematic No.	Description	Conset Part No.
C1	750 µF Silver Mica, Tol. ±1%	088-187	R1	27 Ω	042-270
C2	3000 µF Silver Mica, Tol. ±2%	088-183	R2	33 KΩ	042-333
C3	3000 µF Silver Mica, Tol. ±2%	088-183	R3	3500 Ω 7 watt Wire wound, Tol.±20%	049-001
C4	3000 µF Silver Mica, Tol. ±2%	088-183	R4	10 KΩ 1 watt	042-103
C5A-B	2-Section Variable	074-120	R5	270 KΩ	042-274
C6	470 µF Silver Mica, Tol. ±5%	088-016	R6	68 KΩ	042-683
C7	22 µF Tubular N750, Tol. ±5%	084-238	R7	22 KΩ 1 watt	042-223
C8	150 µF Silver Mica, Tol. ±5%	088-077	R8	4700 Ω 1 watt	042-470
C9	.01 µF Disc 500 V. GP	072-173	R9	47 Ω	042-153
C10	200 µF Disc GFSL Tol. ±5%	072-225	R10	15 KΩ	042-102
C11	30 µF Disc GFSL Tol. ±10%	072-206	R11	1000 Ω	042-273
C12	50 µF Disc GFSL Tol. ±5%	072-131	R12	27 KΩ 1 watt	044-221
C14	.01 µF Disc 500 V. GP	072-173	R13	220 Ω 2 watt (part of L13)	044-473
C15	10 µF Tubular GFSL Tol. ±1 µF	071-008	R14	47 KΩ 2 watt	042-220
C16	.01 µF Disc 300 V. GP	072-169	R15	22 Ω 1 watt, Tol. ±5%	046-392
C17	.01 µF Disc 500 V. GP	072-173	R16	3.9 KΩ 1/2 watt, Tol. ±5%	042-474
C18	Variable Grid Tuning	074-113	R17	470 KΩ	042-104
C19	68 µF Silver Mica, Tol. ±5%	088-188	R18	100 KΩ	042-270
C20	100 µF Silver Mica, Tol. ±5%	088-017	R19	27 Ω	042-103
C21	33 µF Silver Mica, Tol. ±5%	088-079	R20	10 KΩ	042-223
C22	100 µF Tubular GP Tol. ±10%	071-013	R21	22 KΩ	042-333
C23	470 µF Silver Mica, Tol. ±5%	088-016	R22	33 KΩ	049-083
C24	.01 µF Disc 300 V. GP	087-070	R23	7000 Ω 10 watt Wire wound, Tol. ±10%	042-102
C25	.001 µF Disc 3 KV, GP	072-223	R24	100 KΩ	042-104
C26	.01 µF Disc 500 V. GP	072-173	R25	4.7 meg. Ω	042-475
C27	.01 µF Disc 500 V. GP	072-173	R26	100 KΩ	042-104
C28	.001 µF Disc 3 KV GP	072-223	R27	10 Ω	042-223
C29	.001 µF Disc 3 KV GP	072-223	R28	10 Ω	042-100
C30	Variable, Neutralizing	074-084	R29	4700 Ω	042-472
C31	.001 µF Foil Mica 2.5 KV, Tol. ±20%	087-070	R30	270 Ω	042-271
C32	Variable, Plate Tuning	074-047	R31	47 KΩ 1 watt	043-473
C33	33 µF Silver Mica 2.5 KV, Tol. ±20%	088-187	R32	10 KΩ	042-103
C34	33 µF Silver Mica 2.5 KV, Tol. ±20%	088-187	R33	270 Ω	042-271
C35	33 µF Silver Mica 2.5 KV, Tol. ±20%	088-187	R34	100 KΩ	042-104
C36	300 µF Silver Mica, Tol. ±10%	088-185	R35	27 KΩ	042-273
C37	2-Section Variable, Output Load	074-119	R36A	10 KΩ R38B 1 meg. Ω Dual Potentiometer	052-101
C38	5 µF Disc 3 KV, Tol. ±20%	072-224	R37	68 KΩ 2 watt	044-683
C39	2 µF Tubular, Tol. ±10%	071-003	R38	47 KΩ 1 watt	042-473
C40	50 µF Electrolytic @ 25 Volt	073-058	R39	10 KΩ	042-103
C41	.01 µF Disc 300 V. GP	072-169	R40	47 KΩ	042-473
C42	.01 µF Disc 300 V. GP	072-169	R41	270 KΩ	042-274
C43	.01 µF Disc 500 V. GP	072-173	R42	270 KΩ	042-274
C44	47 µF Disc GFSL, Tol. ±3%	072-220	R43	270 KΩ	042-272
C45	39 µF Disc GFSL, Tol. ±3%	072-221	R44	680 KΩ	042-684
C46A-B	2-Section Variable	074-126	R45	47 KΩ	042-473
C47	22 µF Tubular N750, Tol. ±5%	084-238	R46	27 KΩ	042-273
C48	3 µF Tubular, Tol. ±5%	071-009	R47	27 KΩ	042-273
C49	5 µF Tubular NPO, Tol. ±.5 µF	084-117	R48	470 KΩ	042-474
C50	10 µF Tubular GFSL, Tol. ±10%	071-013	R49	2700 Ω	042-272
C51	47 µF Disc GFSL, Tol. ±3%	072-220	R50	250 KΩ Potentiometer (Mike Gain)	052-102
C52	22 µF Tubular N750, Tol. ±5%	084-238	R51	67 KΩ	042-104
C53	68 µF Disc GFSL, Tol. ±5%	072-219	R52	680 KΩ	042-684
C54	56 µF Disc GFSL, Tol. ±5%	072-218	R53	2.2 meg. Ω	042-225
C55	.01 µF Disc 500 V. GP	072-173	R54	270 KΩ	042-274
C56	2.2 µF Tubular NPO, Tol. ±.5 µF	084-083	R55	470 KΩ	042-474
C57	470 µF Silver Mica, Tol. ±5%	088-016	R56	470 Ω 1 watt	043-471
C58	100 µF Silver Mica, Tol. ±5%	088-017	R57	27 KΩ	042-273
C59	22 µF Tubular N750, Tol. ±5%	084-238	R58	100 KΩ	042-104
C60	160 µF Silver Mica, Tol. ±1%	088-008	R59	470 KΩ	042-474
C61	39 µF Tubular N330, Tol. ±3%	084-253	R60	15 Ω 1/2 watt Wire wound, Tol. ±5%	058-150
C62	Variable, Dial Set	071-112	R61	15 Ω 1/2 watt Wire wound, Tol. ±5%	058-150
C63	5-25 µF Rotary Trimmer NPO	089-032	R62	2700 Ω	042-272
C64	18 µF Silver Mica, Tol. ±1%	088-197	R63	68 KΩ 2 watt	044-683
C65	160 µF Silver Mica, Tol. ±1%	088-008	R64	68 KΩ Potentiometer (Meter Zero)	042-104
C66	180 µF Silver Mica, Tol. ±1%	088-199	R65	10 KΩ	042-103
C67	120 µF Silver Mica, Tol. ±1%	088-191	R66	10 Ω	042-100
C68	82 µF Silver Mica, Tol. ±1%	088-001	R67	10 Ω	042-100
C70	.01 µF Disc 500 V. GP	072-173	R68	10 Ω	042-100
C71	.01 µF Disc 300 V. GP	072-169	R69	220 K 1/2 watt ±10%	042-224
C72	22 µF Disc N470, Tol. ±5%	084-243	R70	100 ohm 1/2 watt ±10%	042-010
C73	100 µF Tubular GP, Tol. ±10%	071-013	R71	100 K 1/2 watt ±10% Composition	042-104
C74	.01 µF Disc 500 V. GP	072-173	R72	100 K 1/2 watt ±10% Composition	042-104
C75	.01 µF Disc 500 V. GP	072-173	R73	100 K 1/2 watt ±10% Composition	042-104
C76	.01 µF Disc 300 V. GP	072-169	R74	200 K 1/2 watt ±10% Composition	042-224
C77	.01 µF Disc 500 V. GP	072-173	R75	2.2 K 1/2 watt ±10% Composition	042-222
C78	.01 µF Disc 500 V. GP	072-173	R76	22 KΩ 2 watt	044-223
C79	.01 µF Disc 500 V. GP	072-173	R77	47 KΩ 2 watt	044-473
C80	.01 µF Disc 500 V. GP	072-173	R78		
C81	.1 µF Molded Tubular 200 V., Tol. ±20%	085-002	R79		
C82	.01 µF Disc 300 V. GP	072-169	L1	VFO Coil, 1.75 Mc. - 2 Mc.	012-464
C83	100 µF Disc GP, Tol. ±10%	071-013	L2	VFO Coil, 7 Mc. - 7.425 Mc.	012-465
C84	.001 µF Disc GP	072-108	L3	Oscillator Plate Coil	012-469
C85	1.5 µF Tubular NPO, Tol. ±.5 µF	084-025	L4	Oscillator Plate Coil	012-450
C86	100 µF Tubular GP, Tol. ±10%	071-013	L5	Oscillator Plate Coil	012-452
C87	.1 µF Molded Tubular 400 V., Tol. ±20%	085-005	L6	Final Grid Coil	012-453
C88	470 µF Disc GP, Tol. ±20%	072-213	L7	Final Grid Coil	012-454
C89	25 µF Electrolytic 25 V.	073-127	L8	Final Grid Coil	012-454
C90	.01 µF Disc 500 V. GP	072-173	L9	Final Grid Coil	012-454
C91	470 µF Disc GP, Tol. ±20%	072-108	L10	Final Grid Coil	012-454
C92	.001 µF Disc GP	072-108	L11	Final Grid Coil	012-455
C93	.001 µF Disc GP	072-108	L12	Final Grid Coil	012-472
C94	100 µF Tubular GP, Tol. ±20%	072-108	L13	Parasitic Coil (wound on R13)	028-011
C95	.01 µF Disc 300 V. GP	072-169	L14	H-F Final Plate Coil	012-471
C96	.1 µF Molded Tubular 400 V., Tol. ±20%	085-005	L15	L-F Final Plate Coil	012-504
C97	.001 µF Disc GP	072-108	L16	Receiver Mixer Coil 80-M	012-452
C98	25 µF Electrolytic 25 V.	073-127	L17	Receiver Mixer Coil 40-M	012-449
C99	.0022 µF Molded Tubular, 3 KV, Tol. ±20%	085-095	L18	Receiver Mixer Coil 20-M	012-456
C100	Variable, RFO Pitch	074-115	L19	Receiver Mixer Coil 15-M	012-451
C101	.01 µF Disc 500 V. GP	072-173	L20	Receiver Mixer Coil 10-M	012-451
C102	.001 ±20% Disc, Ceramic	072-108	L21	Receiver Mixer Coil 6-M	012-457
C103	300 µF DM15 ±5%	088-081	L22	Receiver Oscillator Coil 80-M	012-462
C104	82 µF DM15 ±5%	088-002	L23	Receiver Oscillator Coil 40-M	012-463
C105	100 µF N750 ±120 Tol. .100 µF	084-271	L24	Receiver Oscillator Coil 20-M	012-458
C106	5 µF NPO	084-117	L25	Receiver Oscillator Coil 15-M	012-459
C107	5 µF NPO	084-117	L26	Receiver Oscillator Coil 10-M	012-460
C108	5 µF NPO	084-117	L27	Receiver Oscillator Coil 6-M	012-461
C109	.001 µF ±20% Disc, Ceramic	072-108	T1	I-F Transformer, 2065 Kc.	014-008
C110	.01 µF Disc @ 500 V. GP	072-173	T2	Oscillator Coil, 2327 Kc.	014-039
			T3	I-F Transformer, 262 Kc.	014-080
			T4	I-F Transformer, 262 Kc.	014-080
			T5	I-F Transformer, 262 Kc.	014-080
			T6	BFO Transformer, 262 Kc.	014-038
			T7	Audio Driver Transformer	273-013
			T8	Modulation Transformer	273-014