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LFG-1310

FUNCTION GENERATOR

SERVICE MANUAL

These servicing instructions are for use by qualified personnel only. To avoid electrical shock, do not perform any servicing other than that contained in the service manual unless you are qualified to do so.

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9 . CABINET REMOVAL

1. SPECIFICATIONS

Frequency Range: Accuracy:	0.01Hz to 10MHz, 9 ranges x0.01 to x100k ranges±5% of full scale
Accuracy.	x100 to x100k ranges
Waveforms:	Sine wave, triangle wave, square wave, ramp wave, and
	pulse wave
Sine wave:	
Flatness	0.01Hz to 100kHz , ±0.3 JB
	100kHz to 10MHz ±1 dB
Distortion	10Hz to 50kHz 0.5% or less
Triangle wave:	
Linearity error:	1% at 100Hz
Square wave:	
Rise/fall time:	25ns or less (with max, output)
Symmetry Variation:	20:80 to 80:20 (0.01Hz to 1MHz)
Operation Mode:	
CW:	Continuous generation
TRIG/GATE:	TRIG one cycle oscillation triggered by input signal
	GATE oscillation only when input is HI 0.1Hz to 1MHz
Frequency range: Input voltage:	TTL
Input frequency:	DC to 100kHz
Start/stop phase:	Variable
BURST:	Burst wave oscillation for gate time of 1ms to 10s by built-
	in oscillator. ON/OFF time is symmetrical and variable.
SWEEP:	
Sweep mode:	Selection of linear and logarithmic sweep:
Sweep time:	Ims to 10s, 2 ranges, continuously variable. Fly-back line
	interval is symmetrical and variable.
Sweep width:	Max. 1:100, continuously variable
	(sweep start frequency can be specified.)
Output Characteristics:	
Output level:	20Vp-p (output terminal open)
Attenuator:	0, 20, 40, and 60dB, continuously variable
Output impedance: DC offset:	50ohms ±10% Max, ±10V (output opened)
SYNC output:	TTL level (duty cycle are symmetrical and variable.)
GCV output:	Voltage output in proportion to frequency, 0 to 5V
	(max, frequency in each range)
SWEEP output:	Sweep output in sweep mode, 0 to -5V
SWEEP/BURST gate out:	
-	Modulation level 0 to 100%, continuously variable
	Input signal level max, 5Vp-p Suppressed-carrier mode
External Control of Frequenc	y (VCG):
Frequency range:	Max. 1000:1, with frequency dial set to "10"
Input level:	0 to $-5V$ (±20%) (frequency is decreased by negative voltage)
Power Supply:	100 VAC ±10% 50/60Hz 30VA
	120, 200, 220, and 240V available by adjusting the power
	transformer tap
Size and Weight:	300(W) x 100(H) x 300(D)mm, approx. 3.5kg
Accessories:	Connection cable: LC-204B (50 ohm BNC-clip cable) x 1 Instruction manual x 1
	Option: 50-ohm terminator LT-2049
Remarks: 1. The specification	ons described above are applicable at a temperature of 23°C
	tive humidity of 40 to 85%.
2 Unlass otherwi	te stated the frequency dial is set to 1 to 10 and SYM-

 Unless otherwise stated, the frequency dial is set to 1 to 10, and SYM-METRY is set OFF for the specification data.

2. TEST EQUIPMENT REQUIRED

The following test equipment is required for calibration and servicing of the Model LFM-1310. The suggested specifications are the minimum necessary for proper calibration of this instrument.

Test Equipment	Minimum Spec
- Multimeter	0 - 20V Accuracy < 0.1% 3-1/2 digit
- Oscilloscope	10mV sensitivity 100MHz bandwidth Delayed sweep Low capacitance probe
- Frequency Counter	0.01Hz - 10MHz
- Distortion Meter	1kHz 1% full scale
- Audio Generator	ikHz sine wave
- Function Generator	100kHz TTL signal
- 50 ohm Terminator	Feedthrough

3. CALIBRATION PROCEDURE

- 3.1 General
 - Calibration should be performed after a 30 minute warm-up period. It should also be confirmed that the unit is connected to the rated power line voltage.
 - During the adjustment procedure, remove the case only when necessary and replace immediately after making an adjustment. This will maintain all circuits at constant operating temperature.
 - All adjustments should be completed in the given order, because some adjustments interact with others.

3.2 Initial Control Settings

- The initial control settings to be used for each check and adjustment are listed below. Any variations from these settings are stated in the applicable procedure.

FREQ Dial	10
FREQ RANGE	× 100
MODE	CW
FUNCTION	Sine wave
OUTPUT	
DC OFFSET	OFF
ATTENUATION	0dB
VARIABLE	Fully clockwise
SWEEP/BURST/AM MOD	
SYMMETRY	OFF
VARIABLE	Center
AM CARRIER LEVEL	0
TIME	$1 - 100 {\rm mS}$
START/MOD LEVEL	Center
SET	START
LIN-LOG	LIN
AM	OFF
TRIG START LEVEL	Center
SYMMETRY	OFF

- 3.3 Power Supply
 - Connect the DC voltmeter between TP3(+17V line) and/or TP4(-17V line), on the pc board(T-3571), and chassis.
 - Adjust VR8(T-3571) so that the voltages at the TP3 and TP4 are exactly same absolute value.

- Check all supplies according to Table 3-1.

Voltage	Test point
+14V	D43(T-3570) anode
– 14V	D44(T-3570) cathode
+6V	Junction of R53 and R54
+5V	IC13(T-3570) pin3
+5V1	D42(T~3570) cathode

Table 3-1

- 3.4 Offset Adjustment-1 (Current source) - Set: FREQ Dial Fully counterclockwise FREQ RANGE x100
 - Connect the DC voltmeter between TP4 and TP5(T-35?0).
 Note the voltage reading to three places of decimal.
 Remove the voltmeter.
 - Connect the DC voltmeter between TP2 and TP3(T-35?0).
 - Adjust VR3(T-3570) for exactly same voltage as above noted.
- 3.5 Buffer Amplifier

- Set: FREQ Dial FREQ RANGE FUNCTION SYMMETRY Fully counterclockwise x100 Square wave On

- Connect the oscilloscope to OUTPUT connector and set the TIME/DIV control to 0.1mS, SLOPE button to +. Adjust TIME VARIABLE control for 1 cycle display.
- Bias Adjustment

 Adjust VR6(T-3570) to the center of the stable oscillation range when rotate the SYMMETRY control at both extreme positions.
- (2) Symmetry Checking

 Expand the negative going edge, located at the center area of the graticule, 100 times using the delayed sweep mode of the oscilloscope as shown in Figure 3-1.

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Observe this point

- The displacement of the positive and negative going edge should be less than 0.4%(4 divisions) when switch the SLOPE button between + and -.
- 3.6 Offset Adjustment-2 (Tuning Amplifier)
 Connect the junction of R1 and VR1(T-3570) to chassis by short clip lead.
 - Connect the DC voltmeter to TP2(T-3570).
 - Adjust VR2(T-3570) for a voltmeter reading of 0.000V.

3.7	Frequ	lency	Adjustment-1(1kHz)		
-	Set:	FREQ	Dial	10	
		FREQ	RANGE	x 100	
		FUNCI	TION	Square	wave

- · Connect the frequency counter to OUTPUT connector.
- Adjust VR1(T-3570) for a frequency reading of 1.005kHz.
- 3.8 Symmetry Adjustment-1(Dial "1")
 Set: Same as 3.7
 - Connect the frequency counter to OUTPUT connector.

Connect the oscilloscope to SYNC OUT connector and set the TIME/DIV control to 0.1mS/DIV for 1 cycle display.

- Connect the DC voltmeter to TP1(T-3570) and note the voltage. Call the voltage -V.
- Rotate the FREQ Dial clockwise until the voltage reading becomes -V/10.

- Adjust VR4 and VR5(T~3570) alternately to obtain an 100Hz, symmetrical square wave.
- 3.9 Dial Settings - Set: FREQ Dial 1 FREQUENCY RANGE x100
 - Connect the frequency counter to OUTPUT connector.
 - The frequency reading should be between 97Hz and 103Hz.
 - If nct, reset the FREQ Dial by two set screws on the dial knob for frequency reading of 100Hz then repeat step 3.7 and 3.8 to re-adjust the frequency.
- 3.10 Frequency Adjustment-2(10Hz) - Set: FREQ Dial 10 FREQ RANGE x1 FUNCTION Square wave
 - Connect the frequency counter to OUTPUT connector.
 - Adjust VR8(T-3570) for a frequency reading of 10.00Hz.

3.11	Symmetry Adjustment-2(x1	RANGE)
_	Set: FREQ Dial	1
	FREQ RANGE	× 1
	FUNCTION	Square wave

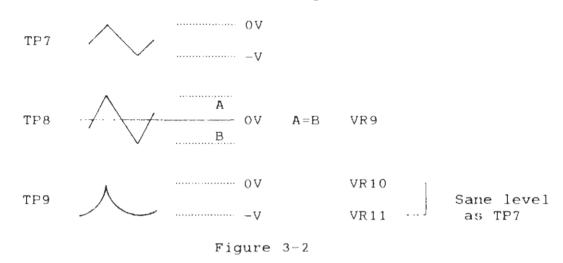
- Connect the oscilloscope to OUTPUT connector and set the TIME/DIV control to 0.1S/DIV then expand the sweep width 10 times using horizontal magnifier mode.
- Adjust VR7(T-3570) precisely so that the displacement of the positive and negative going edge of the square wave should be less than 0.5%(0.25 division) when switch the SLOPE button between + and -. Refer to Figure 3-1.

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3.12 Frequency Adjustment-3 (1) 1MHz ·· Set: FREQ Dial 10 FREQ RANGE x100k FUNCTION Square wave Connect the frequency counter to OUTPUT connector. - Adjust VCI(T-3570) for a frequency reading of 1.000MHz. (2) 10MHz - Set: FREQ Dial 10 FREQ RANGE x1M- Adjust VC4(T-3570) for a frequency reading of 10MHz. (3) 5MHz - Set FREQ Dial 5 FREQ RANGE $\times 1M$ - Check that the accuracy is between 4.8MNHz and 5.2MHz. - If not, adjust VC3(T-3570) so that the frequency reading is 10000 times of the x100 RANGE. - Repeat the step (1) and (2) if necessary. (4) 100kHz - Set: FREQ Dial 10 FREO RANGE x10k - Adjust VC2(T-3570) for a frequency reading of 100.0kHz. 3.13 Sweep Generator Symmetry Adjustment (1)Set: SWEEP/BURST/AM MOD TIME $1 - 100 \, \text{mS}$ TIME VARIABLE Fully counterclockwise SYMMETRY OFF SET SWEEP - Connect the oscilloscope to SWEEP/BURST GATE OUT connector. - Adjust VR4(T-3569) for a symmetrical square wave.

Anti-log Circuit Adjustment

 Adjust following adjustments on the pc board(T-3570) to obtain a waveform as shown in Figure 3-2.



3.14 High Frequency Compensation (1) Gate - Set: FREQ Dial

	+-		
t :	FREQ	Dial	10
	FREQ	RANGE	×100k
	MODE		GATE
	FUNCT	N O1	Sine wave

- Connect the oscilloscope to OUTPUT connector via 50 ohm terminator.
- Apply 100kHz TTL signal from the reference function generator to TRIG IN connector.
- Set the TRIG START LEVEL control to obtain a waveform as shown in Figure 3-3.

Figure 3-3

- Adjust VC5(T-3570) so that the base line becomes as flat as possible with less ringing and overshoot.

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(2)	Output Amplifier	
-	Set: FREQ Dial	1
	FREQ RANGE	x1M
	MODE	CW
	FUNCTION	Square wave
	ATTENUATION	0dB
	VARIABLE	Fully clockwise
	Connect the oscilloscope to terminator.	OUTPUT connector via 50 ohm
	Adjust VR1-4 and VC1(T-3571)	for a flat top square wave.
-	Set: FUNCTION	Sine wave
	Adjust vertical sensitivity of divisions display.	of the oscilloscope for 6
-	Set: FREQ Dial	10
	The sine wave amplitude shou. 6.5 division.	ld be between 5.5 division and
_	Repeat above adjustment if ne	ecessary.
3.15	Distortion Adjustment	
	Set: FREQ Dial	10
	FREQ RANGE	x1k
	FUNCTION	Sine wave
_	Connect the distortion meter terminator.	to OUTPUT connector via 50 ohm
	Adjust VR6 and VR7(T-3571) alwave distortion.	ternately for minimum sine

3.16 AM Modulation - Set: FREQ Dial

Set:	FREQ Dial	10
	FREQ RANGE	x10k
	FUNCTION	Sine wave
	SWEEP/BURST/AM MOD	
	AM	ON
	AM CARRIER LEVEL	Fully clockwise
	MOD LEVEL	Fully clockwise

- Connect the oscilloscope to OUTPUT connector.
- Connect the sine wave generator to MOD IN connector and set the frequency to 1kHz, output level for 100% AM.
- Adjust CARRIER LEVEL control and VR5(T-3571) alternately for correct DSB(Double Side Band) waveform as shown in Figure 3-4.

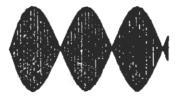


Figure 3-4

4. TROUBLESHOOTING PROCEDURE

- 4.1 Troubleshooting Aid-1
 - Confirm that the any equipment used with the LFG-1310 is operating correctly.
 - Check all control settings, because an incorrect setting can make a good unit appear defective. If there is any question about the function, see the INSTRUCTION MANUAL for a correct operation.
 - Check all circuit for visual defects such as broken component, loose connections, open wire, pcor soldering etc.
 - Some troubles can be solved with proper adjustment.
 - Check voltage, waveform and state of logic circuit as shown in the "7 BLOCK DIAGRAM/SCHEMATIC DIAGRAM" to trace the defective circuit. Then, troubleshoot the associated circuit and/or the control circuit. Start with the power supply.

4.2 Troubleshooting Aid-2

- (1) Overall operation is not satisfactory or unit is "dead".
- a. Check the power supplies. Refer to "3.3 Power supply". Secondary voltage of the power transformer +17V: Check IC4 and associated circuit (Adjust VR8) -17V: Check IC5 and associated circuit (Adjust VR8) +14V: Check D43 and associated circuit -14V: Check D44 and associated circuit +6V: Check D9 and associated circuit +5V: Check IC13 and associated circuit +5V1: Check D42 and associated circuit

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(2) FUNCTION

a. No triangle wave comes out with CW MODE.

Check that triangle wave is present at TP6.

- Yes: Check waveform at pin 1 of P2(T-3571) for triangle wave.
 - Yes- Check output amplifier(Q1-9, IC1 T-3571) Attenuator(S1, R11-16).
 - No- Check FUNCTION switch(S2 T-3568), AM ON/OFF switch(S3 T-3569), VARIABLE control(VF4, 5).
- No: Check the triangle generator by following procedure. Apply 1kHz sine wave from audio generator to the gate of Q7(T-3570) and set the amplitude about 1CVp-p. Check that the clipped sine wave is present at the OUTPUT connector.
 - Yes- Connect the DC voltmeter to TP1(T 3570). The voltage reading should be between about -60mV and -5.5V when rotate the FREQ dial from fully clockwise to fully counterclockwise. And also, the voltage at the TP3 and 4 are proportioned to the voltage at TP1. If the voltage changes correct, check current sources(IC4, 5, Q3-6), diode bridge(D3-10 T-3570). If the no voltage is present, check tuning amplifier(IC1 T-3570) and SYMMETRY control. No- Check comparator(IC7, Q13-20 T-3570), buffer amplifier(Q7-10 T-3570).

b. No sine wave comes out

- Confirm that the triangle function works correctly. Yes: Check waveform and DC voltage at the sine wave converter(Q15-20 T-3571), FUNCTION switch and associated circuit.
- No: Check the triangle generator.
- c. Distorted sine wave comes out Adjust VR6, 7(T-3571). Refer 3.16.
- d. No square wave comes out Confirm that the triangle function works correctly. Yes: Check FUNCTION switch and associated circuit. No: Check the triangle generator.
- e. No frequency change or intermitttent by rotating FREQ dial. Check VR1, FREQ RANGE switch and range capacitors(C17-22). If x1 and lower ranges do not work, check capacitance multiplier(IC6, Q11, 12 T-3570).

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- f. No SYMMETRY control works Check S1, VR1(T-3569) and associated circuit. g. No DC OFFSET works Check IC1(T-3570) and associated circuit. (3) Burst a. No burst signal comes out Check waveform at TP7(T-3570) for triangle wave which frequency is changed by rotate the TIME VARIABLE control. Yes: Check input signal at following points of burst gate (T - 3570). Pin 4 of IC9 for triangle wave Pin 5 of IC8 for square wave Pin 1 of IC8 for square wave DC voltage at pin 9 of IC9 from -6.7V to -12V when rotate TRIG START LEVEL control. Yes- Check burst gate(IC8, Q21, 22, 32 T-3570) and associated circuit. Check the signal sources NO No: Integrator(IC10 T-3570), comparator(IC11, 12, Q26-30 T-3570) and associated circuit. b. TRIG MODE Check one-shot multivibrator(IC1 T-3568) and signal source of TRIG IN connector. C. GATE MODE Check burst control(IC12 T-3570) and signal source of TRIG IN connector.
- d. No SYMMETRY control works Check integrator and comparator(IC10-12, 026-28 T-3570).
- e. No TRIG START LEVEL control works VR2(T-3569) and associated circuit. See (2) a.
- (4) Sweep
- a. Confirm that the CW came out from the OUTPUT connector, also the frequency to be changed by rotating the FREQ dial

b. No sweep mode works

Check waveform at TP7(T-3570) for triangle wave which frequency is changed by rotate the TIME VARIABLE control. Yes: Check waveform at pin 2 of P3(T-3570).

- Yes- Tuning amplifier(IC1 T-3570) and associated circuit.
- No Integrator and comparator(IC10-12, Q26-28 T- 3570).

No: Check MODE switch and associated circuit.

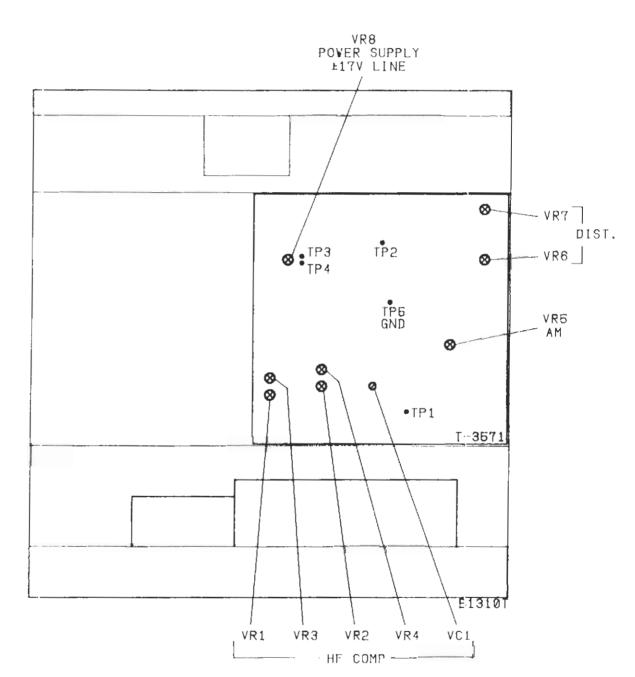
- c. Log sw∋ep does not work Check antilogarithmic converter(IC14-16 T-3570) and associated circuit
- d. No sweep time changes Check C1, 2(T-3569) and associated circuit.
- (5) AM modulation
- a. No modulated signal comes out

Check waveform at pin 2 of P3(T-3571) for CW and pin 1 of P5(T-3571) for associated signal from MOD IN connector. Yes: Check waveform at base of Q12(T-3571) for modulated

signal. Yes- Check output amplifier(Q12-14 T-3571) and associated circuit.

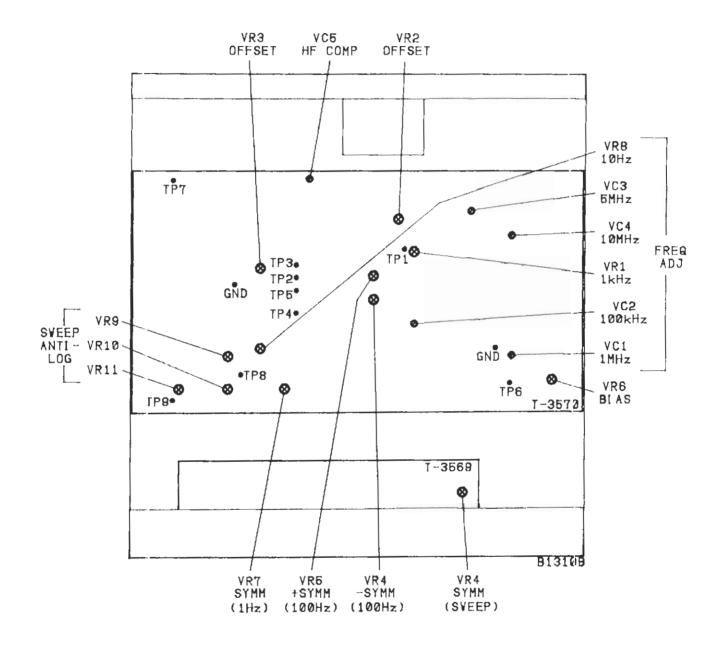
- No- Check IC3(T-3571) and associated circuit.
- No: Check that the signal sources, MOD LEVEL control(VR5 T-3569) and associated circuit.
- (6) Others
- a. No SYNC output Check sync output amplifier(Q23-25 T-3570).
- b. No SWEEP/BURST GATE OUT signal comes out Check Q31(T-3570) and associated circuit.

5. ADJUSTMENT LOCATIONS

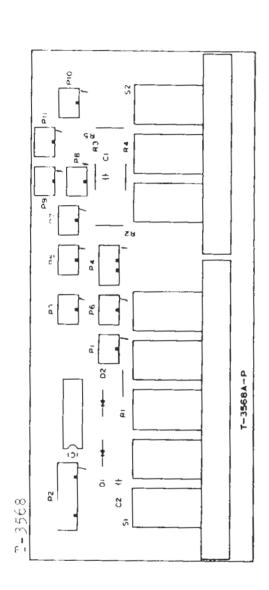


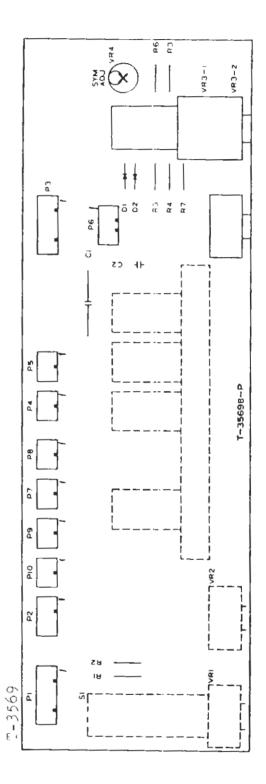
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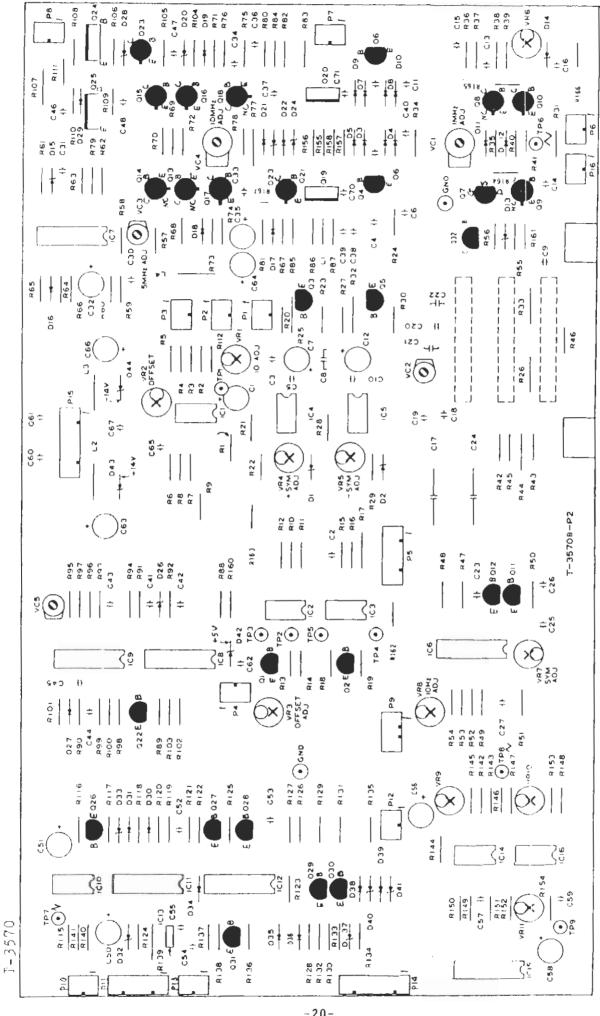
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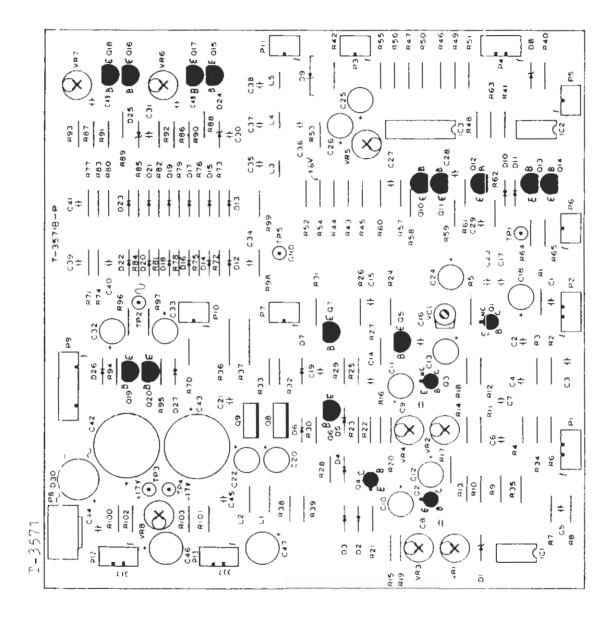
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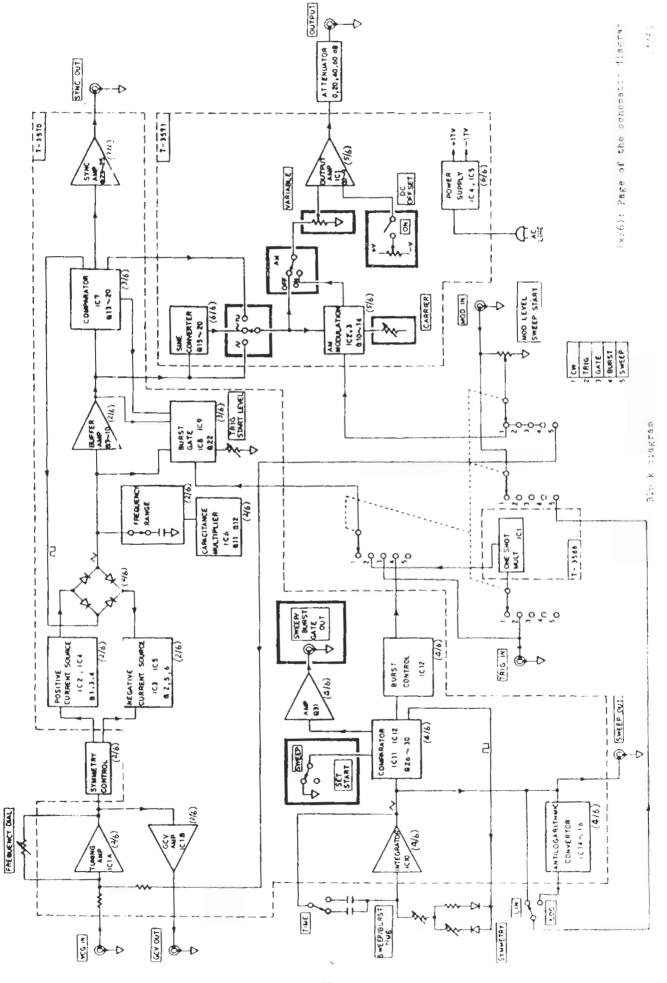


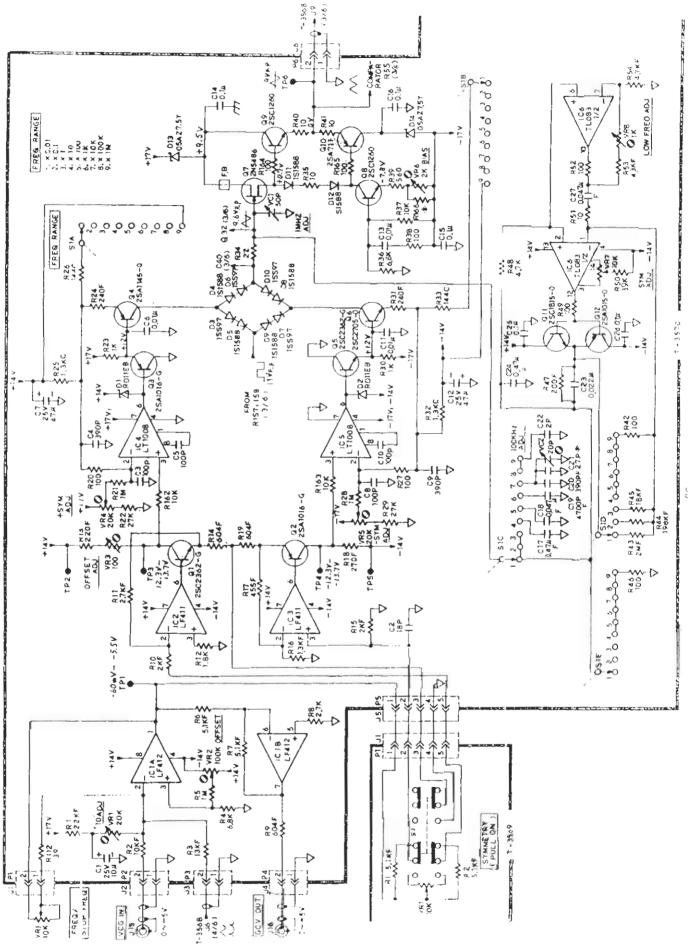




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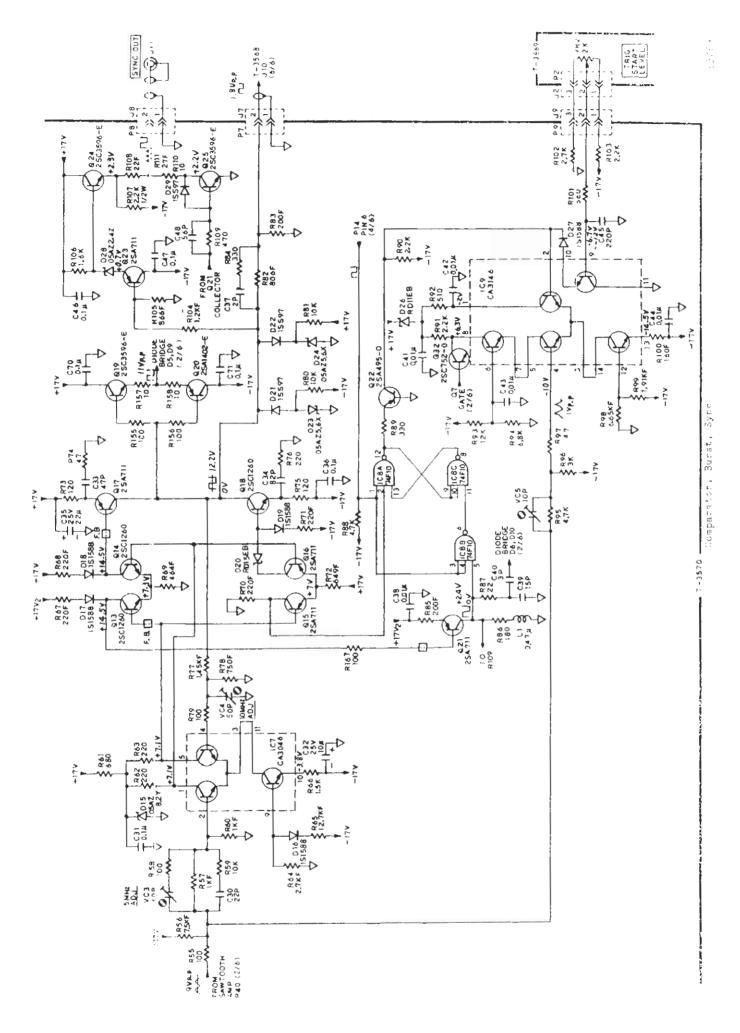




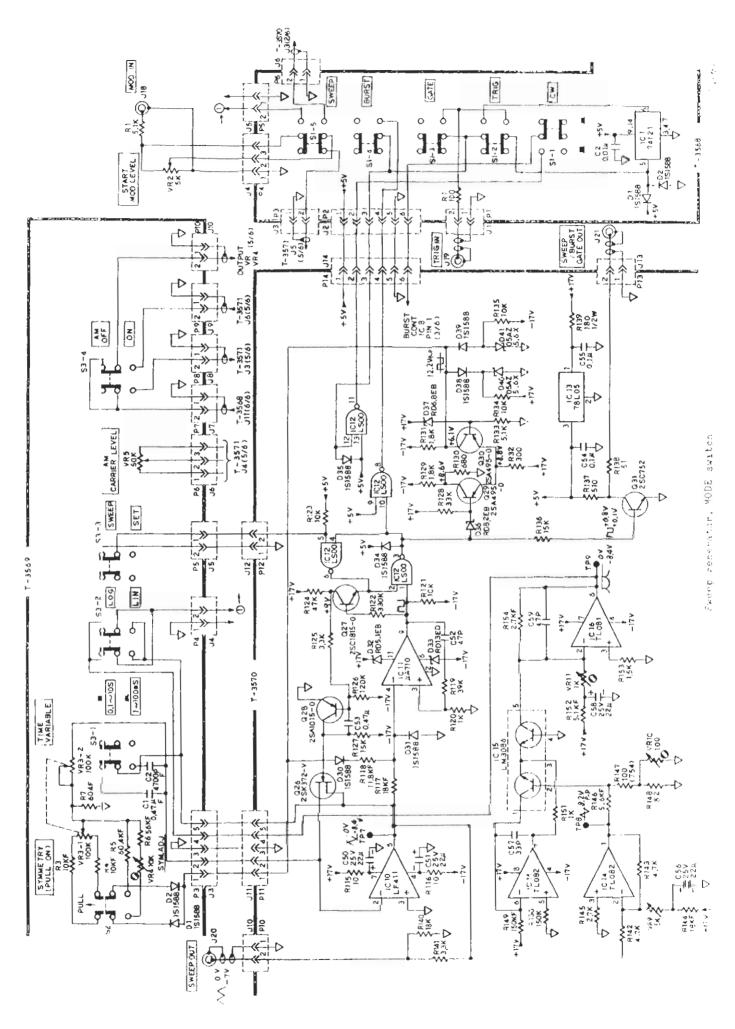
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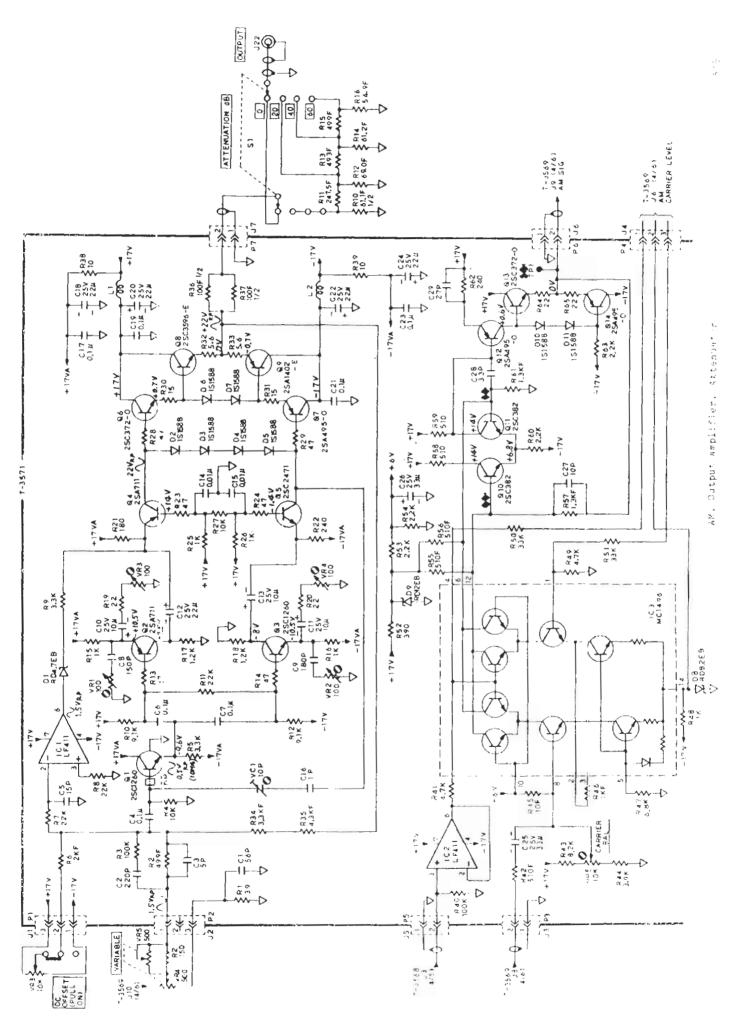
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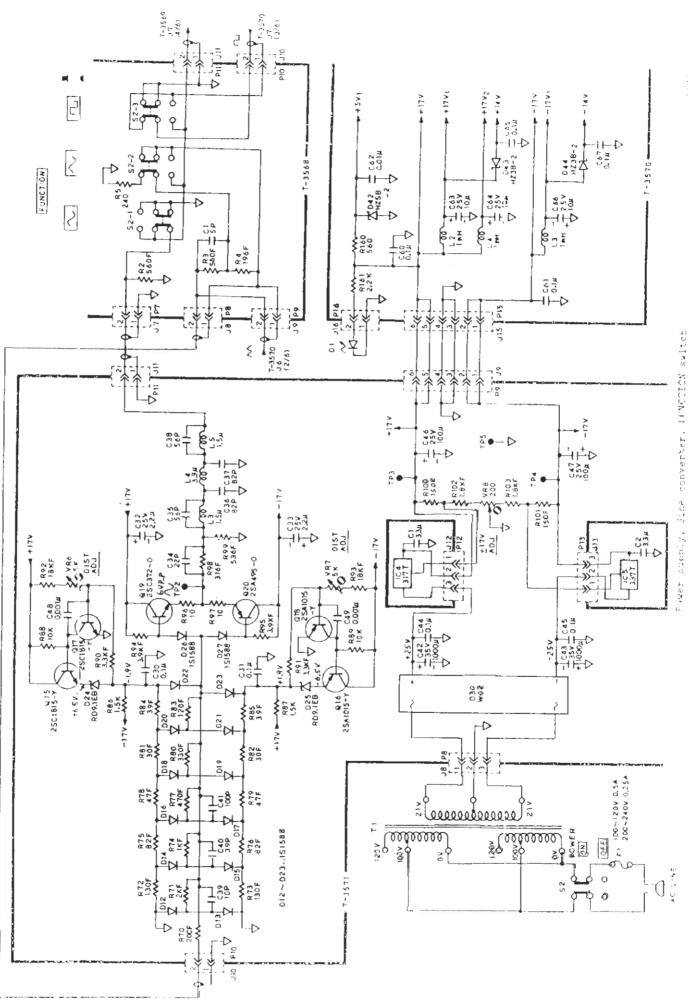


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8. PARTS LIST

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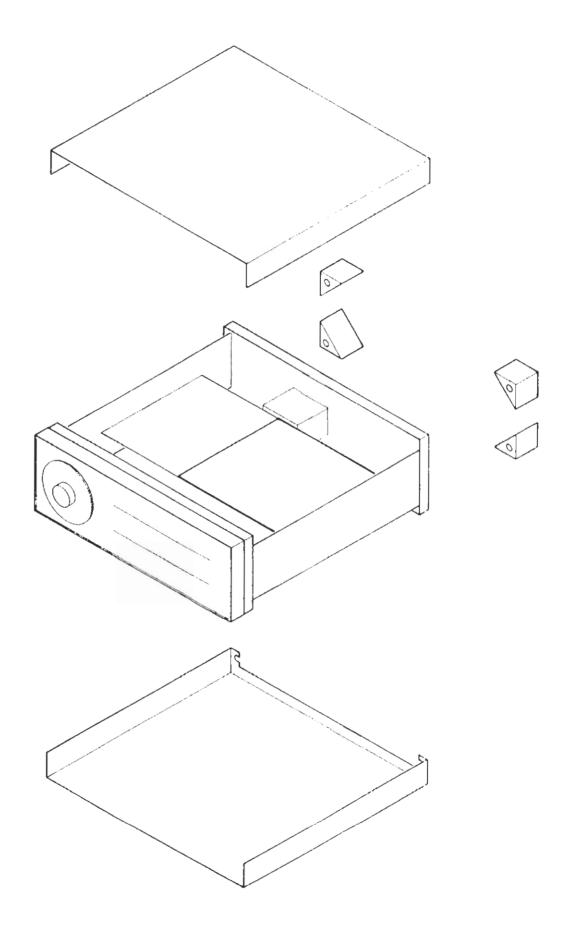
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- Take four screws, holding cord wrappers, to remove the Top and Bottom cover.









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