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# LBO-324/325 40MHz/60MHz OSCILLOSCOPE

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.

\*\*\*\*\*\*\*\*

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### 1. SPECIFICATIONS

**CRT Display** 

Type

95 mm Rectangular, Internal-graticule Scale, Aluminized Screen

and Flat Face with illumination lamp [LBO-325] and

Percentage scale.

**Accelerating Potential** 

Effective display area Beam Rotator

Intensity Modulation

Graticule Illumination

12 kV/2 kV regulated

 $8 \times 10 \, \text{div.}$  (1 div. = 6.35mm) Adjustment on front panel

Blanked by TTL Level Signal

Adjustment on front panel [LBO-325]

Vertical Amplifier (CH-1 and 2)

Sensitivity

5 mV/div. to 5 V/div. (all bandwidth), 1 mV/div. to 2 mV/div.

(5 MHz: MAG x 5) with variable in 10 steps, 1-2-5 sequence,

continuously variable between steps.

Calibration Accuracy

Bandwidth (-3 dB, ref. 8 div.)

DC coupled

AC coupled

[Signal Delay Time

Input Impedance

Input Coupling

Rise Time

DC to 40 MHz [60 MHz] (DC to 5MHz: MAG x 5)

±3% (±5%: MAG x 5)

10 Hz to 40 MHz [60 MHz] 8.8 ns [5.8 ns] (70 ns: MAG x 5)

Approx. 20 ns on CRT face]

1 M $\Omega$  ± 1.5%, 30 pF within ± 5pF (Tolerance: within ± 2 pF)

AC, GND, DC

400 V (DC + ACp-p)

Maximum Input CH-1, CH-2, CHOP, ALT, ADD Display Modes

**CH-2 INVERT** Polarity Invert

Approx. 50 mV/div. into  $50\Omega$  (DC to 40 MHz [60 MHz], CH-1 Output

-3 dB

Horizontal Amplifier

Sweep Method

A Sweep Time

Trigger sweep, Automatic trigger sweep, Continuously delayed

sweep, Trigger delayed sweep, and ALT sweep.

 $0.2 \mu s/div.$  to 0.2 s/div., 1-2-5 sequence 19 steps with

continuous adjuster.

 $0.2 \mu s/div.$  to 0.5 ms/div., 1-2-5 sequence 11 steps. B Sweep Time

±3%

One sweep or more Hold-off variable

1/10,000

Delay Time Jitter Setting accuracy of delay time position  $\pm 3\%$  approx.

Magnifier Max. Sweep Time

Calibration Accuracy

10 times ± 5%

20 ns/div. (MAG x 10 ON)

Synchronization
Signal Sources
Coupling
Slope
Sensitivity

ALT, CH-1, CH-2, LINE, EXT. AC, HF-REJ, TV-V, TV-H + or — and VIDEO POL

	Bandwidth	INT.	EXT.
NORM	30 Hz ~ 10 MHz	0.5 div.	0.2 Vp-p
	2 Hz ~ 40 [60] MHz	1.5 div.	0.6 Vp-p
AUTO	30 Hz ~ 10 MHz	0.5 div.	0.2 Vp-p
	30 Hz ~ 40 [60] MHz	1.5 div.	0.6 Vp-p

TV Synchronization

Extracts the synchronizing signal from composite video signal and provides stable synchronization. Slope switch is selected according to polarity of video signals.

If the main sweep (A TIME) is synchronized to TV-V, under B triggering (B TRIG'D) the magnified sweep (B TIME) is automatically synchronized to TV-H.

X-Y Mode (X = CH-1, Y = CH-2)

Sensitivity

X axis: 5 mV/div. to 5 V/div. Y axis: 5 mV/div. to 5 V/div.

X axis Bandwidth

X-Y phase

DC or 10 Hz to 1 MHz (-3 dB, ref. 8 div.)

Less than 3° at 100 kHz

Calibrator

Output Voltage Frequency

0.5 Vp-p ±2%

Approx. 1 kHz, square wave

Power Requirements
Line Voltage

Power Consumption

AC100, 120, 200, 220, 240V 50/60 Hz

25 W

Size and Weight

230 (W)  $\times$  75 (H)  $\times$  290 (D) mm, 4 kg

Supplied Accessories

**Optional Accessories** 

Carrying Case (with Protective front cover)

Shading hood

# 2. TEST EQUIPMENT REQUIRED

The following test equipment is required for calibration and servicing of the Model LBO-324/325. The suggested specifications are the minimum necessary for proper calibration of this instrument.

Test Equipment	Minimum Spec
- Multimeter	0 - 200V Accuracy <0.1% High voltage probe
- Oscilloscope	10mV sensitivity 20MHz bandwidth Low capacitance probe
- Amplitude Calibrator	1kHz square wave 1mV-50Vp-p Accuracy <0.5%
- Square Wave Generator	100Hz-10kHz Rise time <10nS
- Time Mark Generator	0.25-0.02uS Accuracy <0.5%
- Sine Wave Generator	10Hz-40/60MHz
- Capacitance Meter	30pF

#### 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.

All adjustments should be completed in the given order, because some adjustments interact with others.

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.

Take utmost precaution to come into contact with the high voltage circuits!

# 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.

Display INTEN FOCUS ILLUM	As desired Best focused display As desired<325 only>
Vertical VOLTS/DIV VARIABLE x5 MAG POSITION V MODE AC-DC-GND CH-2 INV	0.1V (CH-1, 2) CAL'D (CH-1, 2) OFF (CH-1, 2) Center (CH-1, 2) CH-1 DC (CH-1, 2) OFF
Time base A TIME/DIV B TIME/DIV VARIABLE POSITION HOR DISPLAY DLY TIME MULTI A/B TRACE SEP	0.5mS 0.1mS CAL'D Center A 0.20 Center

Trigger	
COUPLING	AC
SOURCE	CH-1
LEVEL	0
NORM/AUTO	OTUA
SLOPE	+
HOLDOFF	NORM

### 3.3 Power Supply

- Connect the DC voltmeter between test point and chassis.
- Adjust as required, using the adjustment shown in Table 3-1.

Test point	Voltage	Tolerance	Adjustment
P68 pin 3	-8V	-7.8V to -8.2V	VR1(T-3553)
P68 pin 4	+5V	+4.8V to +5.2V	_
P67 pin 3	+8V	+7.6V to +8.4V	_
P68 pin 2	+12V	+11.4V to +12.6V	-
P64 pin 1	+15V*	+13.5V to +16.5V	_
P67 pin 4	+36V	+33V to +39V	_
P68 pin 1	+100V	+95V to +105V	_
TP1(T-3565)	-1900V	-1895V to 1905V	VR2(T-3591)
,	*: T	Jnregulated	

3

Table 3-1

#### 3.4 Display

- (1) Intensity Adjustment
  - Set: A TIME/DIV 0.5mS
    AC-GND-DC GND
  - Set the INTEN control midway between 10 and 11 o'clock positions.
  - Adjust VR1(T-3591) so the trace is just visible.

# (2) Focus Adjustment

- Set: FOCUS Center

- Apply CAL 0.5Vp-p to CH-1 INPUT connector.
- Adjust VR3(T-3591) and VR1(T-3565) alternately for optimum trace sharpness.

- 3.5 Vertical Amplifier
  - (1) DC Balance Adjustment
    - \* The following adjustments are accessible from the hole on the top and bottom of the cabinet. Use insulated adjustment driver.

- Set: VOLTS/DIV 5mV
VARIABLE CAL'D
AC-GND-DC GND

- Position the trace to the center horizontal graticule line using the V-POSITION control.
- Pull x5 MAG on.
- If the trace moves 1 division or more, adjust VR3(T-3554) for minimum trace shift between x5 MAG ON and OFF.
- Apply the same procedure for CH-2 by adjusting VR103(T-3554).
- (2) Step Attenuator Balance Adjustment

- Set: VOLTS/DIV 10mV AC-GND-DC GND

- Position the trace to the center horizontal graticule line using the V-POSITION control.
- Set the VOLTS/DIV switch to 5mV.
- If the trace moves 1 division or more, adjust VR5(T-3554) for minimum trace shift between 5mV and 10mV.
- Apply the same procedure for CH-2 by adjusting VR105(T-3554).
- (3) x1 AC Gain Adjustment

- Set: VOLTS/DIV 5mV
VARIABLE CAL'D
V MODE CH-1
AC-GND-DC DC

 Connect the square wave generator to CH-1 INPUT connector and set the frequency to 1kHz, output level for 5 divisions display.

- Adjust VR1(T-3554) for a best flat-top square wave.
- Apply the same procedure for CH-2 by adjusting VR101(T-3554).
- (4) x5 AC Gain Adjustment

- Set: VOLTS/DIV 5mV x5 MAG ON

- Connect the square wave generator to CH-1 INPUT connector and set the frequency to 1kHz, output level for 5 divisions display.
- Adjust VR2(T-3554) for a best flat-top square wave.
- Apply the same procedure for CH-2 by adjusting VR102(T-3554).
- (5) Sensitivity Adjustment

- Connect the amplitude calibrator to CH-1 INPUT connector and set the output level to 50mV.
- Adjust VR1(T-3555) for a 5 divisions display.
- Apply the same procedure for CH-2 by adjusting VR4(T-3555).
- Check accuracy for all settings of VOLTS/DIV switch.
- (6) CH-2 INV Balance Adjustment

- Set: V MODE CH-2 AC-GND-DC GND

- Adjust VR6(T-3555) for a minimum trace shift between CH-2 INV on and off.

# (7) Attenuator Phase Compensation

- Set: VOLTS/DIV 20mV V MODE CH-1

- Connect the square wave generator to CH-1 INPUT connector and set the frequency to 1kHz, output level for 5 divisions display.
- Check the waveform for a flat-top square wave with less than 3% overshoot or roll-off on the leading edge.
- If not, adjust Cc(T-3554) for best flat-top square wave.
- Apply the same procedure for all other VOLTS/DIV and CH-2 according to Table 3-2.

VOLTS/DIV	CH-1	CH-2	
5mV	_	<del>-</del> '	
20mV	1/2 Cc	1/2 Cc	
50mV	1/5 Cc	1/5 Cc	Table 3-2
0.1V	1/10 Cc	1/10 Cc	
1V	1/100 Cc	1/100 Cc	

# (8) Input Capacitance Adjustment

- Set: VOLTS/DIV 5mV V MODE CH-1

- Connect the capacitance meter to CH-1 INPUT connector and note the reading of the input capacitance.
- Check the capacitance on all other VOLTS/DIV ranges and if value difference is larger than 1pF between 5mV range and under checking range, adjust Ci(T-3554) for the same reading 2s above noted. Refer to Table 3-3.

NOTE: Do not move the blocking capacitors(C1, C2) at the input circuit to avoid the change of the input capacitance.

- Apply the same procedure for CH-2 according to Table 3-3.

VOLTS/DIV	CH-1	CH-2	
20mV	1/2 Ci	1/2 Ci	
50 <b>m</b> V	1/5 Ci	1/5 Ci	Table 3-3
0.1V	1/10 Ci	1/10 Ci	
1 V	1/100 Ci	1/100 Ci	

- Repeat (7) and (8) if necessary.

(9) CH-1 OUTPUT Adjustment

- Connect the amplitude calibrator to CH-1 INPUT connector and set the output level to 0.1Vp-p.
- Connect the test oscilloscope to CH-1 OUTPUT connector on the rear panel via 50 ohm termination and set the sensitivity to 50mV/DIV.
- Adjust VR21(T-3555) for a display of 5 divisions on the test oscilloscope.
- Remove the amplitude calibrator and test oscilloscope.
- Connect the DC voltmeter to CH-1 OUTPUT connector.

- Set: AC-GND-DC GND

- Adjust VR22(T-3555) for a meter reading of OV.

(10) Position Centering

- Set: V MODE ALT

V POSITION Center (CH-1, 2)

AC-GND-DC GND

- Adjust VR2(T-3555) so that the trace is positioned to the center horizontal graticule line.
- Apply the same procedure for CH-2 by adjusting VR5(T-3555).

(11) ADD Balance Adjustment

- Set: V MODE ALT AC-GND-DC GND

- Position the two traces to the center horizontal graticule line using V POSITION controls.
- Depress the ADD button of V MODE switch.
- Adjust VR3(T-3555) for minimum trace shift between ALT and ADD mode.

- 3.6 Time Base/Horizontal Amplifier
  - (1) x1 Gain, A TIME/DIV Adjustment
    - Set: A TIME/DIV VARIABLE

0.5mS CAL'D

- Connect the time mark generator to CH-1 INPUT connector and set the time to 0.5mS.
- Adjust VR4(T-3561) for trace length of 12 divisions as shown in Figure 3-1.

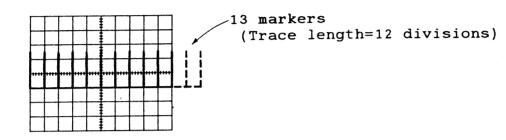


Figure 3-1

- Adjust VR4(T-3560) for 1 marker/division.
- Set: A TIME/DIV

0.5uS

- Set the time mark generator to 0.5uS.
- Adjust VC1(T-3560) for 1 marker/division.
- Check all ranges to verify that the accuracy is within +, 3%.
- (2) x10 MAG, x1 Centering
  - Set: HOR DISPLAY ALT
    A TIME/DIV 0.5mS
    B TIME/DIV 0.5uS
    H POSITION Center
    AC-GND-DC GND

- Position the start point of the A sweep at the leftmost vertical graticule line using H POSITION control.
- Position the B sweep(intensified portion on the A sweep) to the 7th vertical graticule line using DLY TIME MULT dial as shown in Figure 3-2.

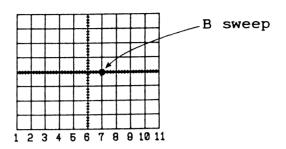


Figure 3-2

- Pull x10 MAG knob on.
- Position the B sweep to the center vertical graticule line by adjusting VR3(T-3561).
- Push the x10 MAG off.
- Position the B sweep to the center vertical graticule line by adjusting VR6(T-3561).
- (3) x10 MAG Gain Adjustment
   Set: A TIME/DIV 1mS
  x10 MAG ON
  - Connect the time mark generator to CH-1 INPUT connector and set the time to 0.1mS.
  - Adjust VR5(T-3561) for 1 marker/division.
- (4) x10 MAG Time Adjustment
   Set: A TIME/DIV 0.2uS
  x10 MAG ON
  - Connect the time mark generator to CH-1 INPUT connector and set the time to 0.1uS.

- Position the start point of the trace to the leftmost vertical graticule line.
- Adjust VC1 and VC2(T-3561) for the best sweep linearity.

(5) B TIME/DIV Adjustment

- Set: HOR DISPLAY B
A TIME/DIV 0.1mS
B TIME/DIV 50uS
VARIABLE CAL'D
DLY TIME MULT 0.20

- Connect the time mark generator to CH-1 INPUT connector and set the time to 50uS.
- Adjust VR2(T-3560) for 1 marker/division.

(6) Start and End Adjustment of DLY TIME MULT Dial

- Set: HOR DISPLAY ALT
A TIME/DIV 0.5mS
B TIME/DIV 0.5uS
DLY TIME MULT 0.20

- Position the start point of A sweep to the leftmost vertical graticule line using H POSITION control.
- Position the B sweep(intensified portion on the A sweep) to the 0.2 division right of the leftmost vertical graticule line by adjusting VR7(T-3560).
- Set: DLY TIME MULT 10.0
- Position the B sweep to the rightmost vertical graticule line by adjusting VR6(T-3560).
- 3.7 Trigger
  - (1) Trigger Balance Adjustment(CH-1, CH-2 and EXT)

- Set: VOLTS/DIV 10mV
V MODE CH-1
AC-GND-DC AC
TRIG COUPLING AC
TRIG SOURCE CH-1
TRIG LEVEL 0

- Connect the oscilloscope to TP1(T-3559). Use low capacitance probe.

- Adjust VR1(T-3559) for a voltage reading of 0Vdc within 50mV.
- Apply the same procedure for CH-2 and EXT TRIG by adjusting VR2 and VR3(T-3559).

(2) TRIG LEVEL Adjustment

- Set: VOLTS/DIV 10mV
V MODE CH-1
AC-GND-DC AC
TRIG COUPLING AC
TRIG LEVEL Center

- Connect the sine wave generator to CH-1 INPUT connector and set the frequency to 1kHz, output level for 0.5 division display.
- Adjust VR3(T-3558) to obtain a stable display.
- (3) TRIG SLOPE Adjustment
  - Setup: Same as (2)
  - Adjust VR1(T-3588) to obtain a stable display when SLOPE button is switched between + and -.
- 3.8 X-Y Operation
  - (1) X Gain Adjustment

- V MODE X-Y
X VOLTS/DIV 20mV
AC-GND-DC GND

- Connect the amplitude calibrator to X INPUT connector and set the output level to 0.1Vp-p.
- Adjust VR1(T-3561) for a horizontal deflection of 5 divisions.
- (2) X Position Centering

- Set: X POSITION Center
X AC-GND-DC GND

- Adjust VR2(T-3561) so that the dot is positioned at the center vertical graticule line.

- 3.9 CAL 0.5Vp-p Adjustment
  - (1) Amplitude Adjustment
    - Connect the test oscilloscope\* to CAL tip on the front panel.
    - Adjust VR4(T-3564) for an output voltage of 0.5Vp-p.
    - NOTE 1: \* Vertical sensitivity must be calibrated within 1% or better.
      - 2: Do not touch the adjustment VR4 except the precision peak-voltage measuring device such as well-calibrated oscilloscope is provided.

# 4. TROUBLESHOOTING PROCEDURE

4.1 Troubleshooting Aid-1 Confirm that the any equipment used with the LBO-324/325 is operating correctly.

Check all control settings, because an incorrect setting can make a good unit appear defective. For instance, if the waveform is not stable, TRIG SOURCE switch may be set to external trigger mode instead of internal. If there is any question about the function, refer to the INSTRUCTION MANUAL for a correct operation.

Check all circuit for visual defects such as broken component, loose connection of a connector, open wire, poor soldering etc.

Some troubles can be solved with proper adjustment. For instance, if the trace moves upward or downward by rotating V-VARIABLE control, it can be corrected by adjusting DC BAL adjustment.

Check the voltage and waveform as shown in the Schematic Diagram to locate the defective circuit. Start with the power supply. Typical voltage and waveform are obtained under the same conditions as "3.2 Initial Control Settings"

Take utmost precaution to come into contact with the high voltage circuits!

4.2 Troubleshooting Aid-2 The oscilloscope consists of three major sections which are the high voltage power supply, vertical amplifier and time base/horizontal amplifier. In general, if one of these is defective, the trace will not appear on the CRT. Therefore, the most effective procedure is to check these three sections one by one.

The high voltage power supply produces -1900Vdc to accelerate the electron beam from the electron gun to the face plate of the CRT. If the -1900Vdc is too low (absolute value in this case), the trace will either not appear or be dim.

The vertical amplifier consists of a pre-amplifier and a final amplifier, all of which are DC coupled balanced circuits. If some portion of the vertical amplifier becomes unbalanced by a defective component, the trace will be deflected upward or downward off the face of the CRT. Therefore, it is best to check the state of amplifier balancing when the trace does not appear on the CRT.

The time base generator/horizontal amplifier drives the spot from left to right on the CRT. The trigger pickoff circuit samples a part of input signal at the pre-amplifier, and applies it to the trigger generator. The trigger generator produces a trigger pulse to start the sweep generator. The sawtooth waveform, generated by the trigger pulse at sweep generator, is applied to the horizontal amplifier and then to the horizontal deflection plates to sweep the spot on the CRT.

- 4.3 Troubleshooting Aid-3
- (1) Overall operation not satisfactory or no trace visible with same conditions as Paragraph "3.2 Initial control settings".
  - a. Power supply

Check all DC power supplies within tolerance according to Table 3-1.

Yes: See step "b".

No: Troubleshoot the each supply.

-8V, +8V: IC4, Q4-7 and associated circuit.

+5V: IC3 and associated circuit.

+12V: IC2, Q11, 12 and associated circuit.

+15V: D7, F1 and associated circuit.

+36V: IC1, Q8-10 and associated circuit.

+100V: IC1, Q1-3 and associated circuit.

-1900V: Check waveform at collector of Q1(T-3591) for

50kHz sine wave, and troubleshoot the high voltage generator(Q1 T-3591), feed-back amplifier(Q2-4 T-3591) and associated

circuit.

\*\* NOTE: When remove the High Voltage Block from the main frame, connect the ground line between the block and the main frame before turn power switch on. Take utmost precaution to come into contact with the high voltage circuit!

Check all DC voltages are present on the connector board (T-3641). Refer to schematic diagram 1-1/12 (Connection diagram) and 12/12 (connector board). If the no voltage is present, check connectors for loose connection.

#### b. Vertical amplifier

Connect the pin 1 and 4 of P82(T-3556) with short clip lead. Trace appears.

Yes: Connect pin 1 and 3 of P83(T-3556) with short clip lead. Trace appears.

Yes- Check vertical pre-amplifier, input amplifier.
Continue the same procedure to the input stage
to check the amplifier balancing

No- Troubleshoot the vertical final amplifier.

No: See step "c".

#### c. Horizontal amplifier

Set TIME/DIV switch to X-Y position. Dot appears.

Yes: Troubleshoot the sawtooth generator. See step "(3) a".

No: Connect the pin 1 and 3 of P76 to check the amplifier balancing. Dot appears.

Yes- Troubleshoot the horizontal amplifier.

No- See step "d".

#### d. Unblanking circuit

Check that unblanking pulse is present at the TP8(T-3553).

Yes: Adjust VR1(T-3591). Refer to paragraph "3.4(1)". No: Trace the unblanking signal to time base generator.

#### (2) Vertical amplifier

a. No waveform appears on the CRT.

Apply the CAL 0.5V to CH-1 and/or CH-2 INPUT connector and set the VOLTS/DIV control to 0.1V, then trace the square wave from the input stage to the output stage to locate the defective circuit. Refer to the schematic diagram 5/12-7/12.

Check that the square wave comes out at pin 1 and 2 of P25(T-3555).

Yes: Troubleshoot delay line<325 only>, final amplifier and associated circuit.

No : Check waveform at P11 and 12(T-3555) for CH-1, P13 and 14(T-3555) for CH-2. If no square wave is present, troubleshoot the input amplifier, attenuator.

b. Sensitivity out of tolerance Adjust VR1(T-3555) for CH-1, VR4 for CH-2. Refer to paragraph "3.5(5)". c. V MODE switch works incorrect

Troubleshoot channel select gate, MODE switch and the control circuit.

CH-1: S3(T-3557), IC1, Q11(T-3555) and associated circuit.

CH-2: S3(T-3557), IC1, Q22(T-3555) and associated circuit.

CHOP: Check waveform at pin 3 and 6 of IC1(T-3555) for switching signal.

Yes: Channel select gate.

No: S3(T-3557), multivibrator(IC4 T-3555) and control circuit.

ALT: S3(T-3557), IC5(T-3555) and associated circuit.

- d. CH-2 INV does not work Check Q27, 28(T-3555) and control circuit.
- e. x5 MAG mode works incorrect.
  Check S2(T-3554) for CH-1, S102(T-3554) for CH-2 and associated circuit.
  Adjust VR2(T-3554) for CH-1, VR102(T-3554) for CH-2 if necessary. Refer to paragraph "3.5 (4)".
- (3) Time base/Horizontal amplifier
  - a. No trace appears on A sweep mode(only dot is appeared)

    Check that the sawtooth wave comes out at P51(T-3560).

Yes: Check the sensitivity of the horizontal amplifier with X-Y operation. Adjust VR1(T-3561) if necessary. Refer to paragraph "3.8(1)."

No: Check that the A trigger signal is present at P44(T-3560).

Yes: Troubleshoot A sweep generator, A sweep gate.

No: Troubleshoot trigger pulse shaper. trigger source select amplifier. See step "(4)".

b. No trace appears on B sweep mode(only dot is appeared) Check that the sawtooth comes out at P50(T-3560).

Yes: Horizontal display selector(IC1 T-3561).

No: Check that the B trigger signal is present at P45(T-3560)

Yes- Troubleshoot A, B sweep generator, B sweep gate comparator.

No: Troubleshoot trigger pulse shaper. trigger source select amplifier. See step "(4)".

- c. Sweep time out of tolerance Adjust VR4 and VC1(T-3560) for A sweep time. Refer to paragraph "3.6(1)" Adjust VR2(T-3560) for B sweep. Refer to paragraph "3.6(5)".
- d. Sweep delay function works incorrect. Confirm that the A, B sweep works correctly. Check the voltage at center pin of the potentiometer is from +2V to -2V when rotate the DLY TIME MULT dial to both extremes.
- e. x10 MAG mode works incorrect
  Check Q7-10(T-3561) and associated circuit.

# (4) Trigger

a. Display is unstable

The trigger signal must be applied from trigger pickoff circuit to sweep generator. Check the waveform at following points to locate the defective circuit. P33(T-3559) for CH-1, P34(T-3559) for CH-2.

Yes- See next step.

No- Trigger pickoff amplifier (Q61-63, 65 T-3555) for CH-1, Q67-71(T-3555) for CH-2.

TP1(T-3559).

Yes- See next step.

No- See step "c".

P44(T-3560) for A trigger pulse, P45(T-3560) for B trigger pulse.

Yes- Sweep generator

No- A trigger pulse shaper(Q1-15 T-3558) and associated circuit.

B trigger pulse shaper(IC3 T-3558) and associated circuit.

b. TRIG COUPLING works incorrect

AC: Confirm that the trigger circuit works

correctly.

HF REJ/TV V: Check IC1(T-3558), Q6(T-3559) and associated

circuit.

TV H: Q16-21(T-3558) and associated circuit.

SLOPE: Q3-6(T-3558) and associated circuit.

### c. TRIG SOURCE works incorrect

CH-1: Q1-3, 5, 7, 13(T-3559) and control circuit.

CH-2: Q10-12,14(T-3559) and control circuit.

LINE: Q20, 22(T-3559) and associated circuit.

EXT: Q15-19, 21, 23(T-3559) and control circuit. Adjust EXT TRIG BAL VR3(T-3559). Refer to

paragraph "3.7(1)".

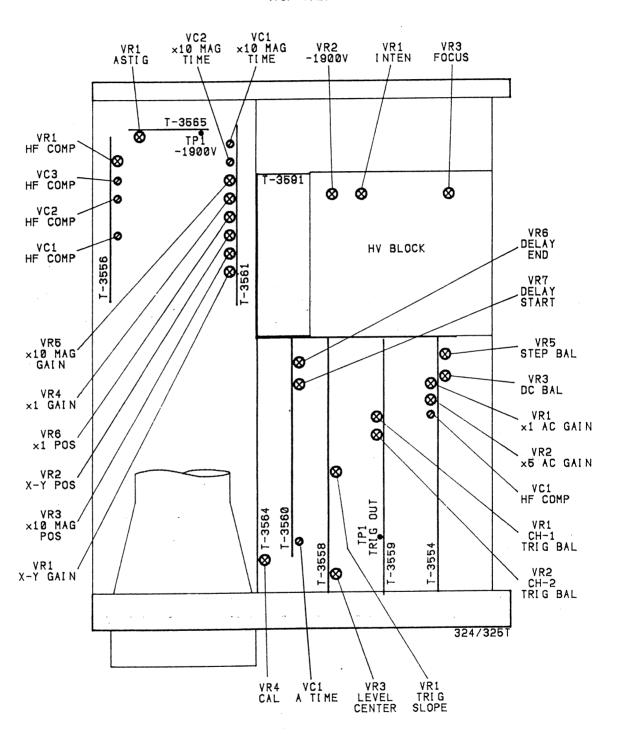
#### (5) Others

a. No TRACE ROTATION works
Check Q1, 2(T-3573) and associated circuit

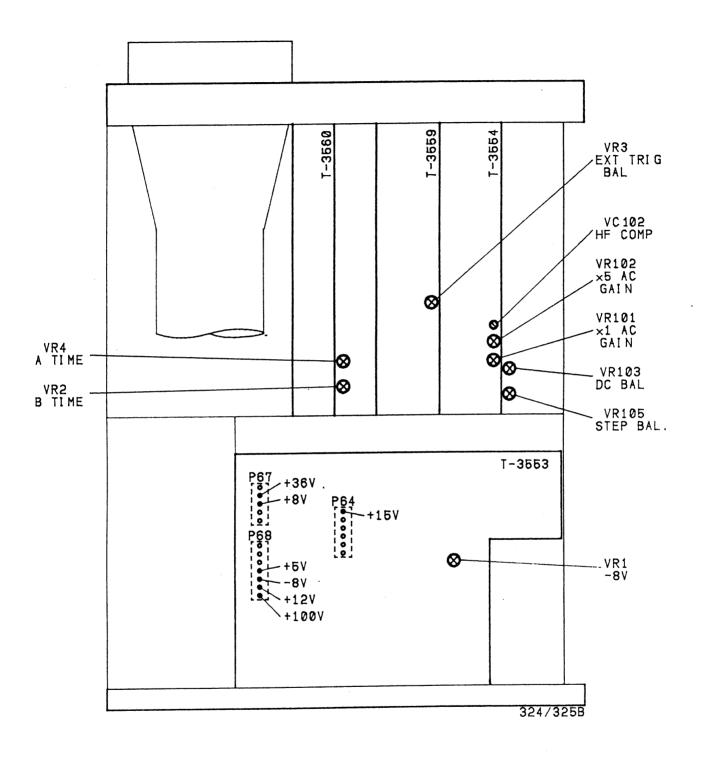
### b. No CAL signal comes out Troubleshoot Q3-5(T-3564) and associated circuit. Adjust VR4(T-3564) in necessary. Refer to paragraph "3.4 (1).

c. No scale illumination lamp lit<325 only> Check continuity of V1-3(T-3564) Check Q1, 2(T-3564).

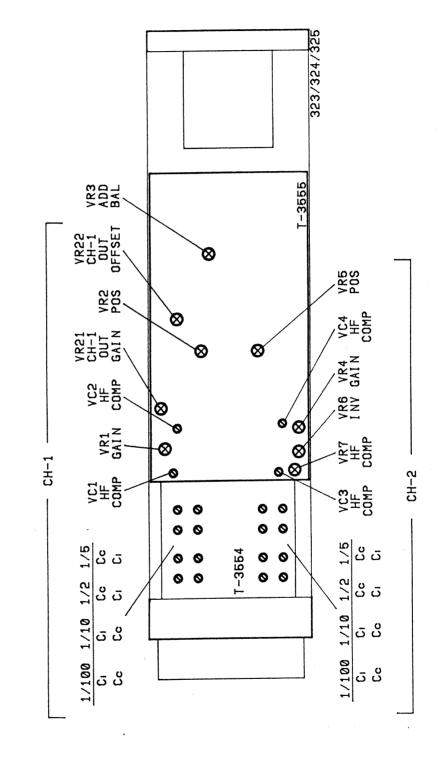
#### <TOP VIEV>



-23-LBO-324/325

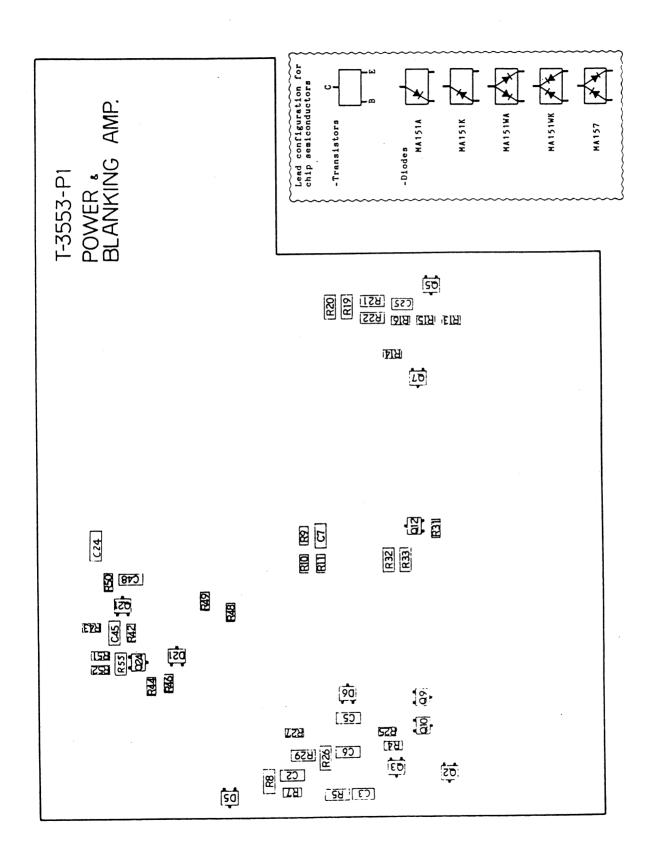


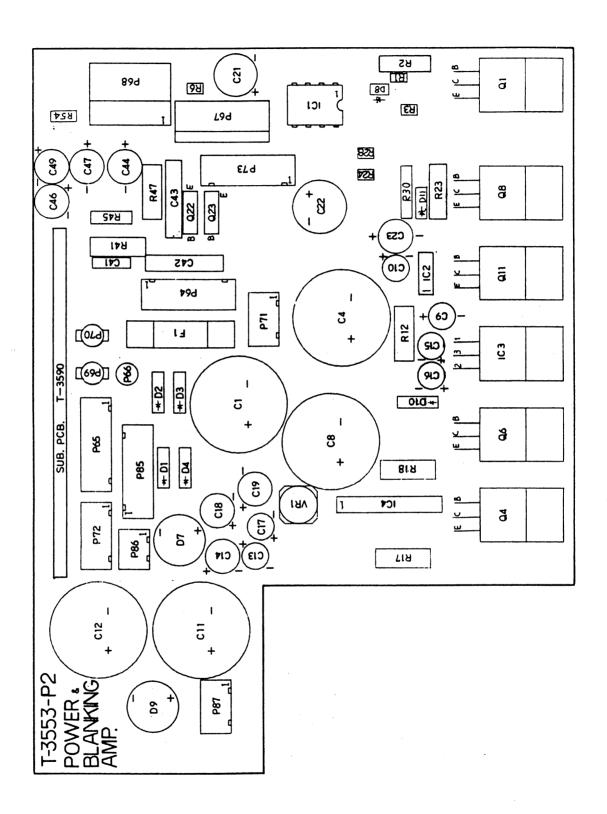
-24-LBO-324/325

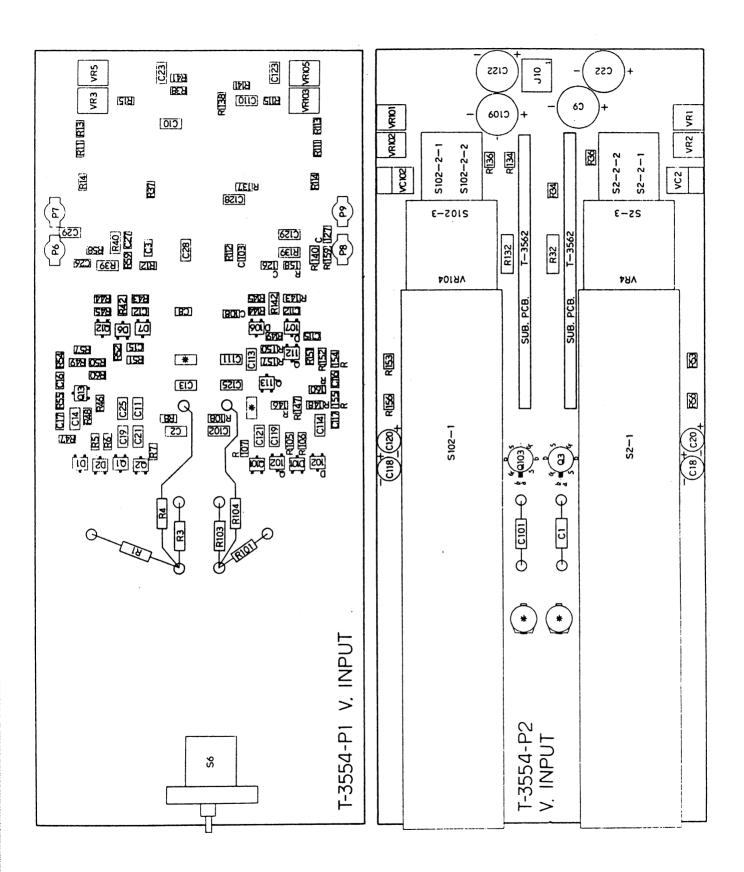


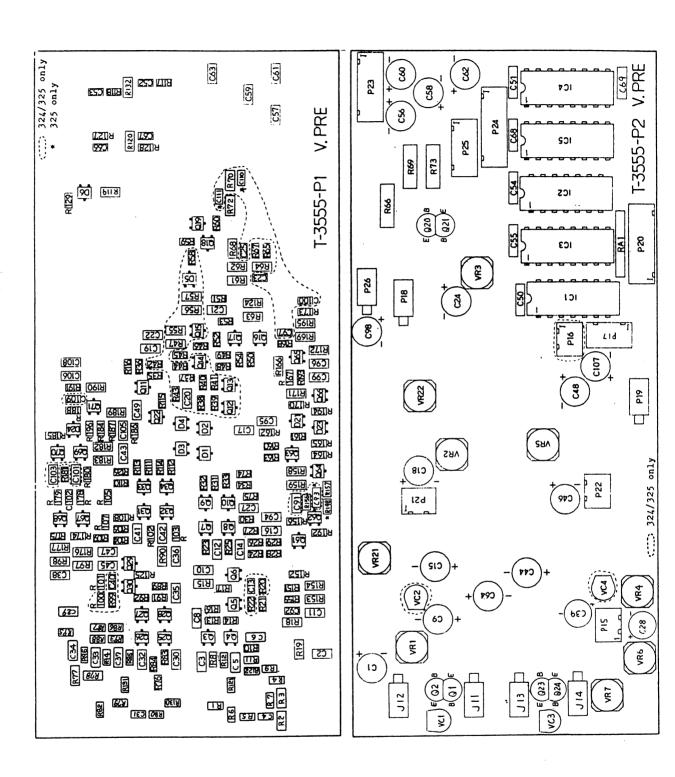
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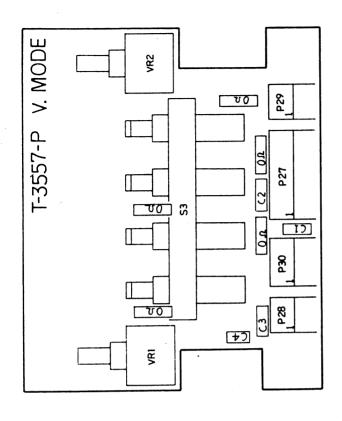
-25-LB0-324/325

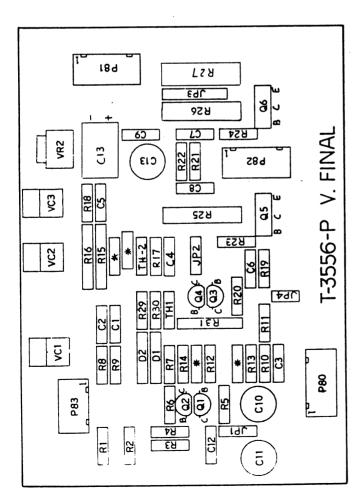


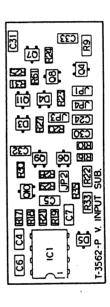


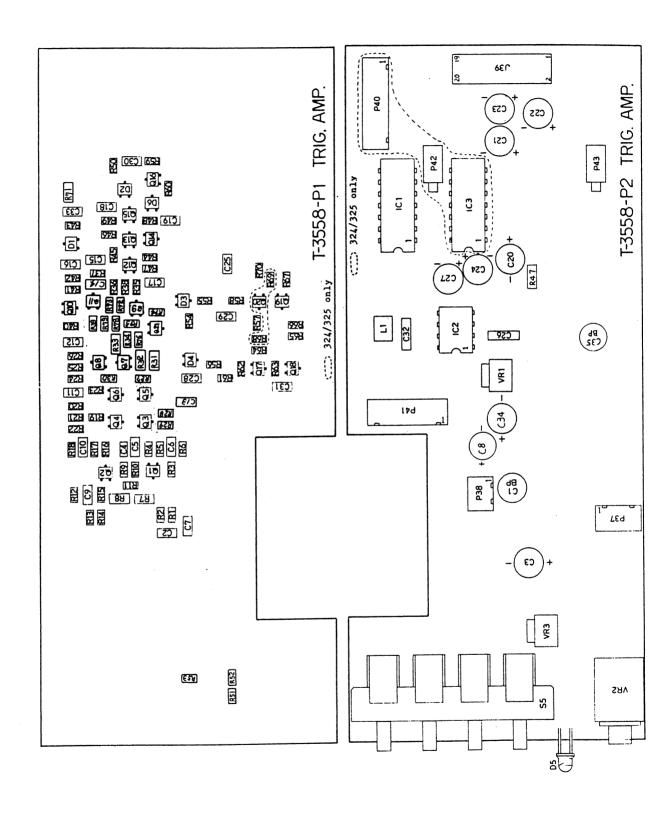


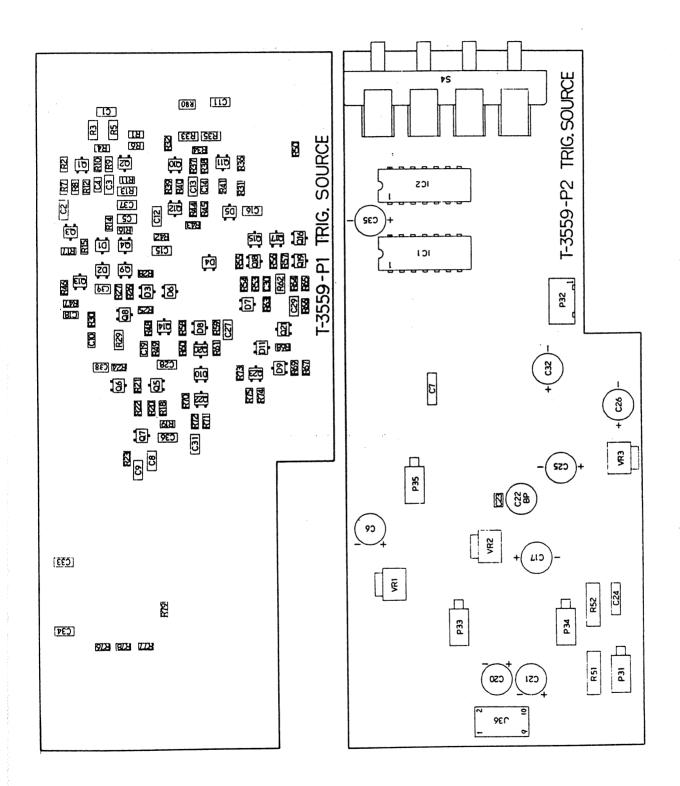


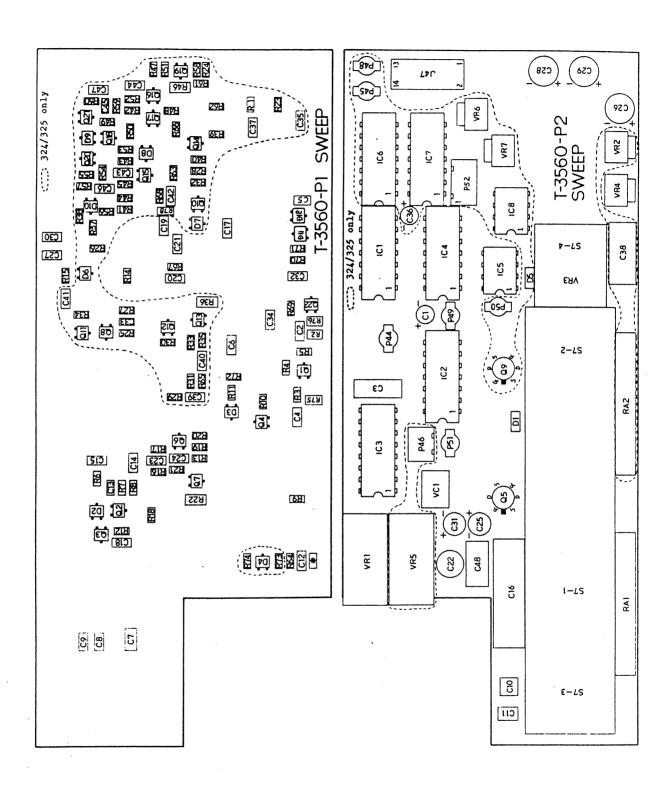


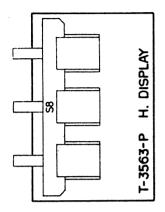


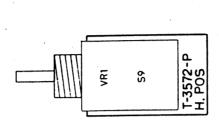


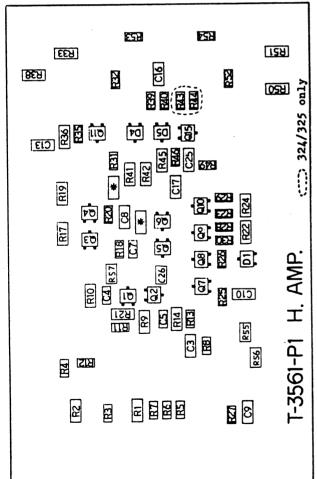


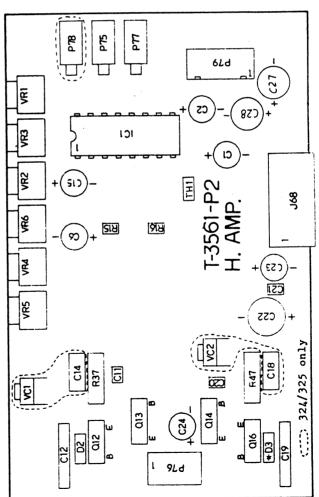


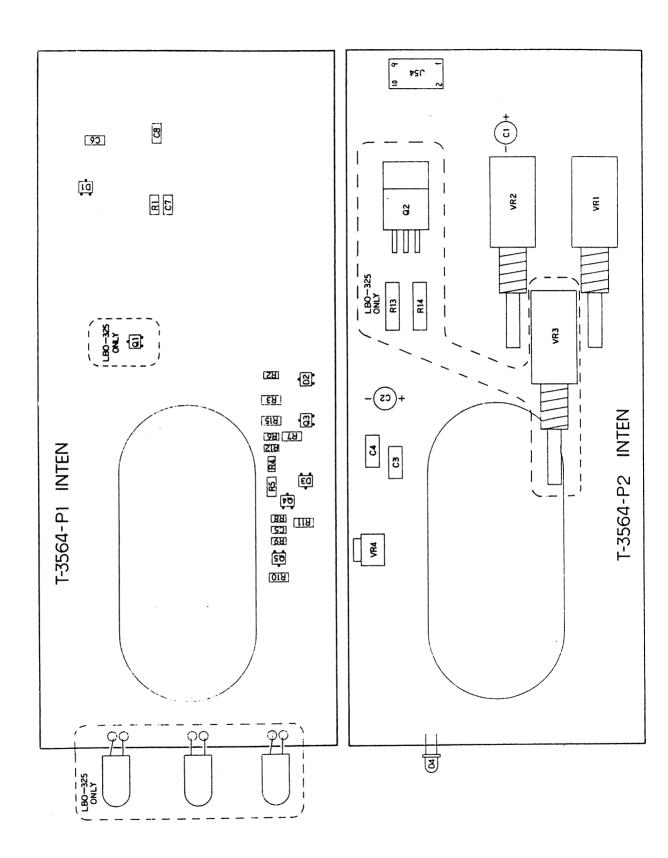




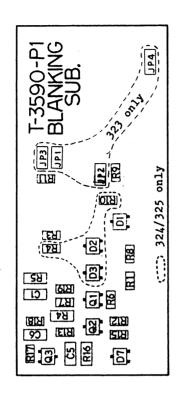


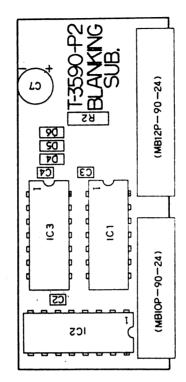


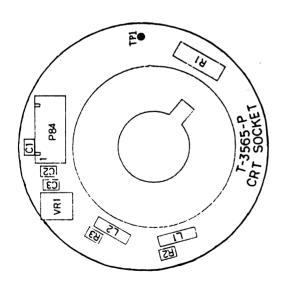


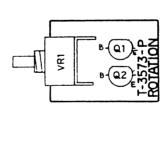


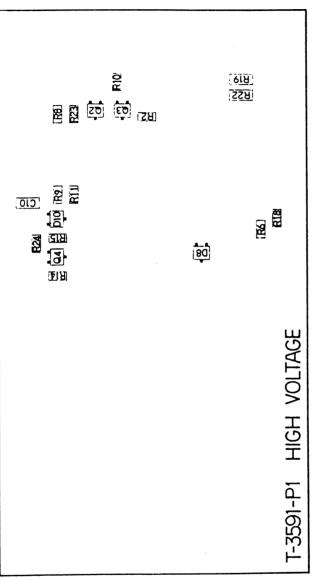
-35-LBO-324/325

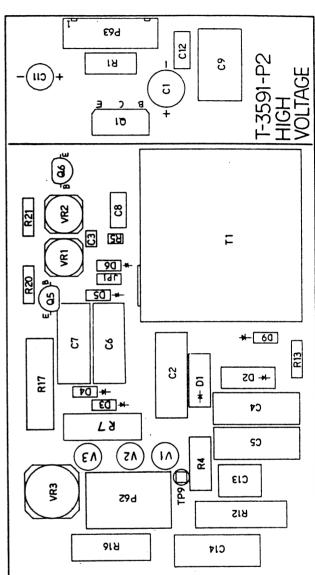


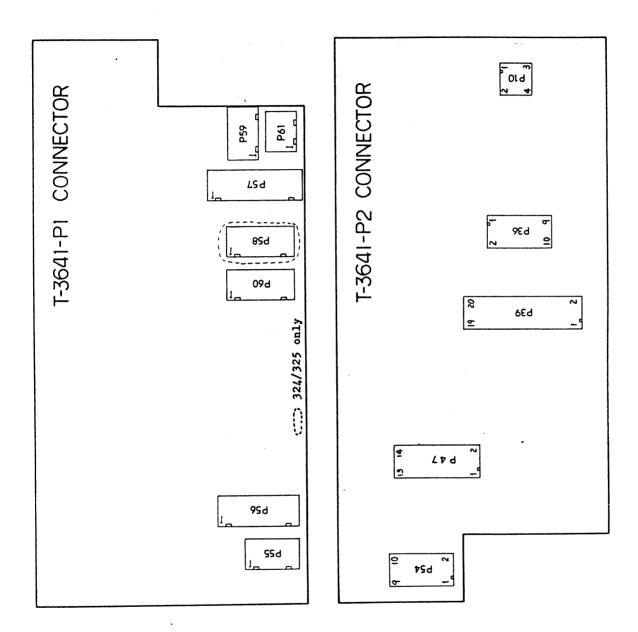


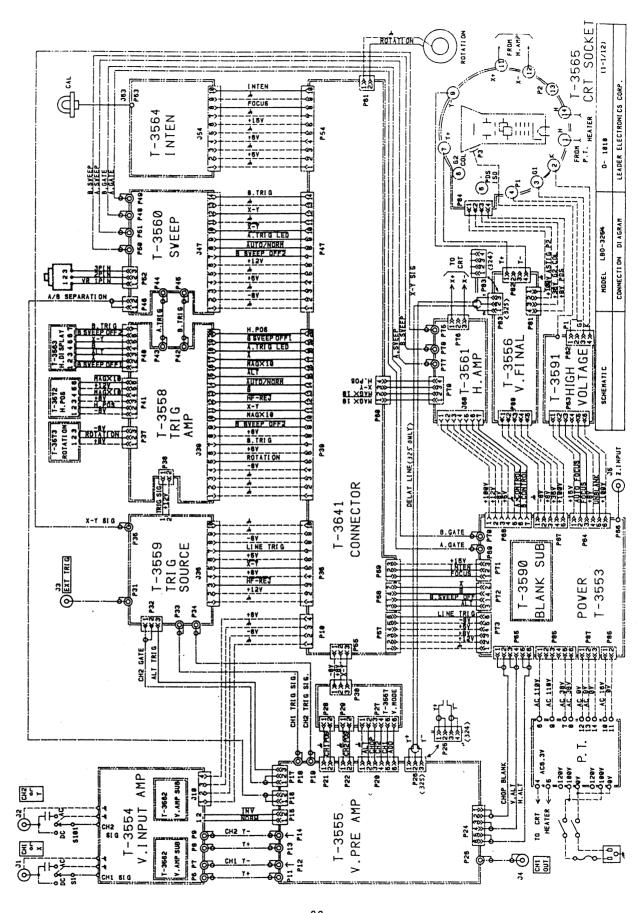




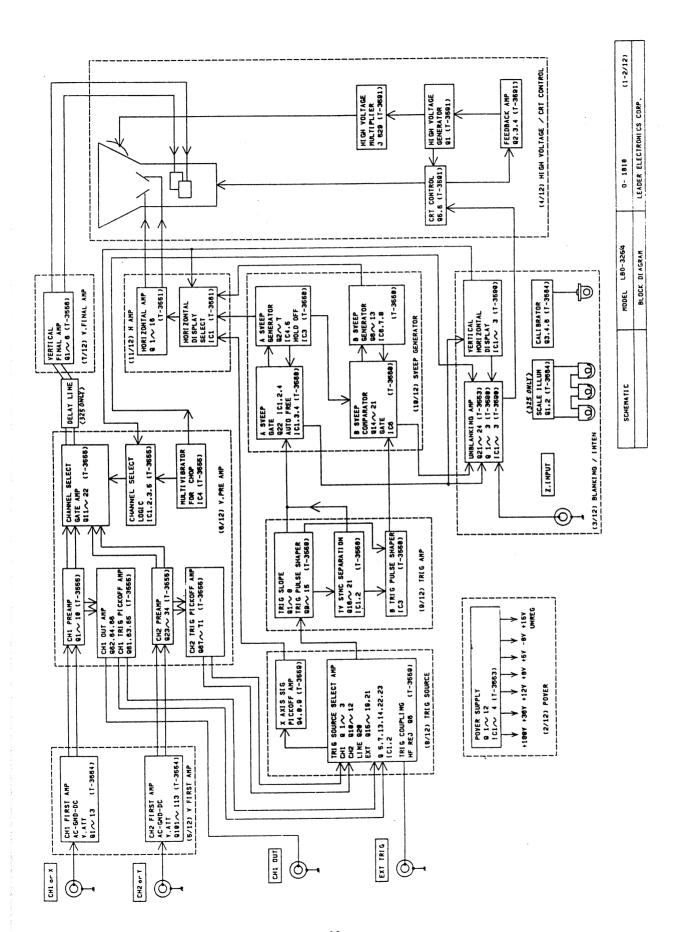




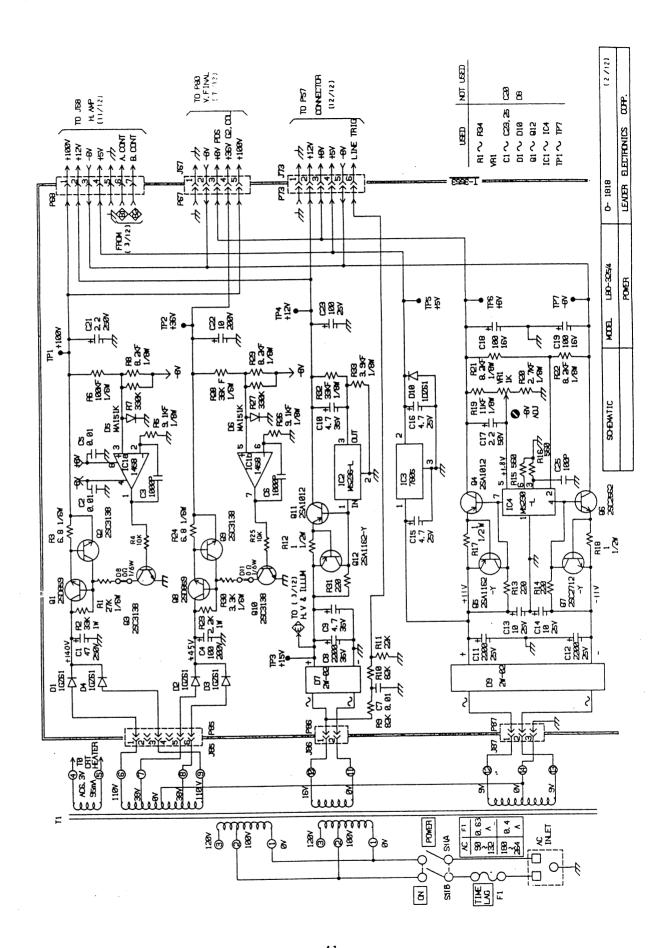




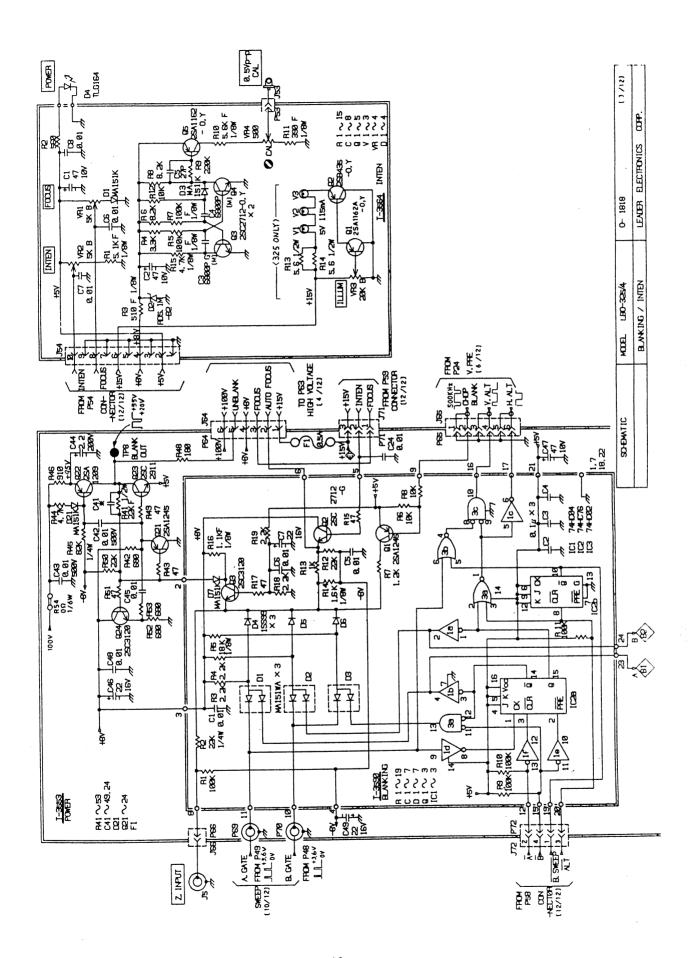
-39-LBO-324/325



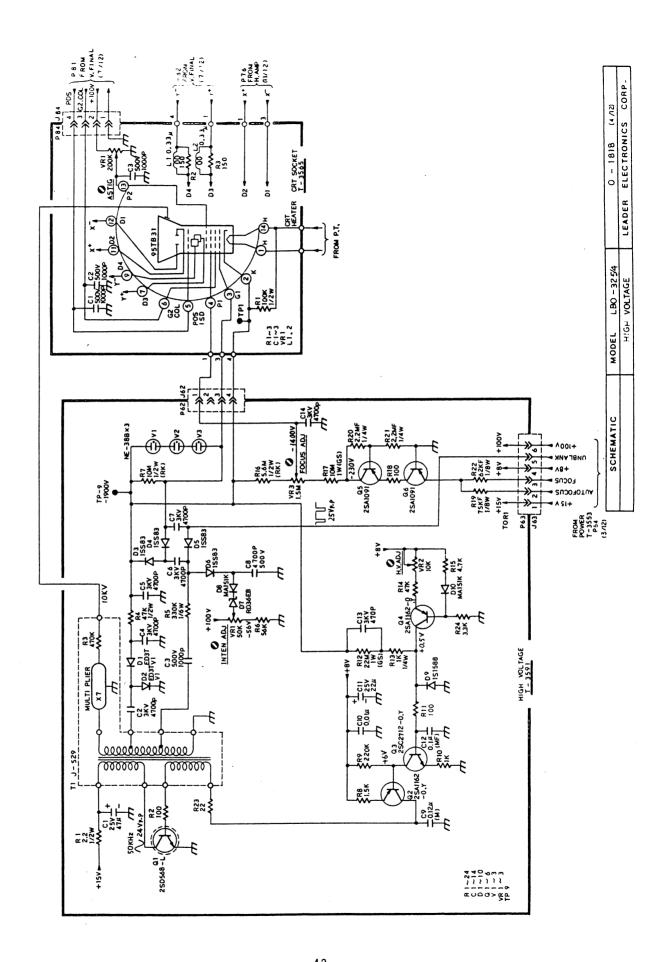
-40-LBO-324/325

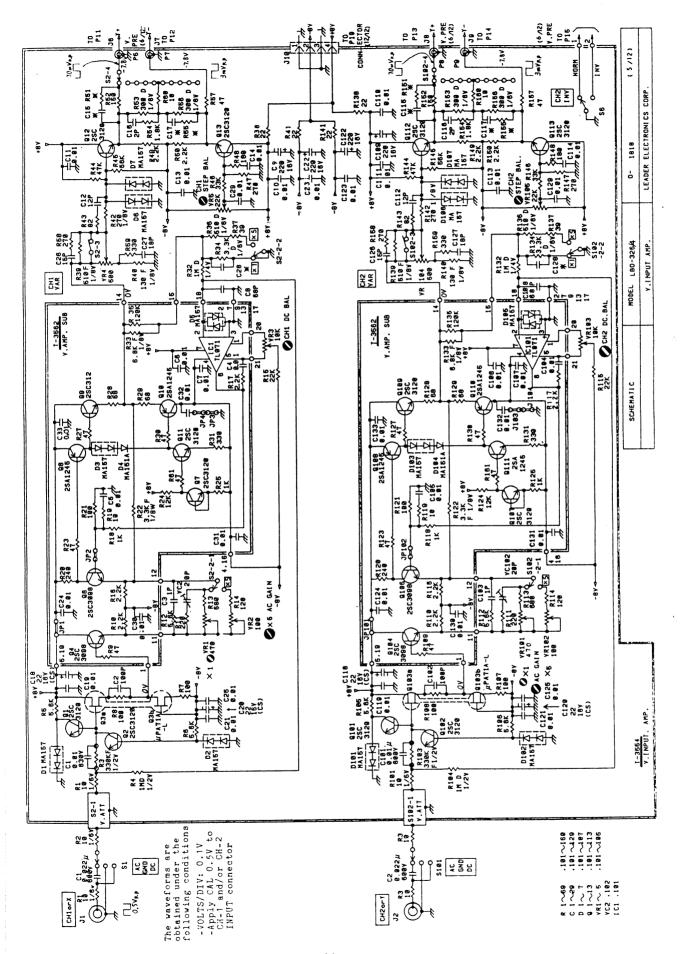


-41-LBO-324/325

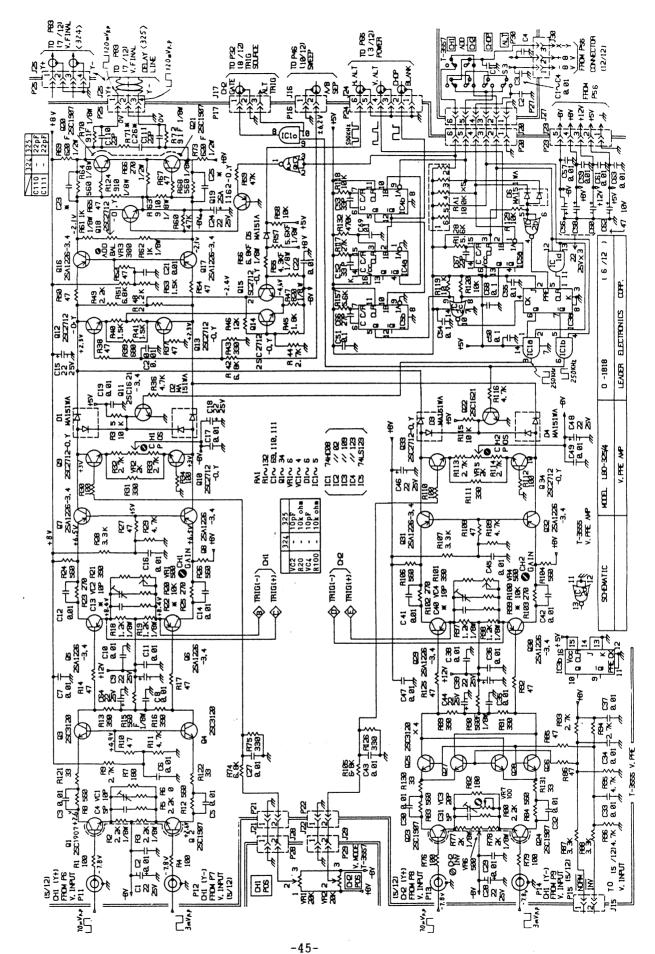


-42-LBO-324/325

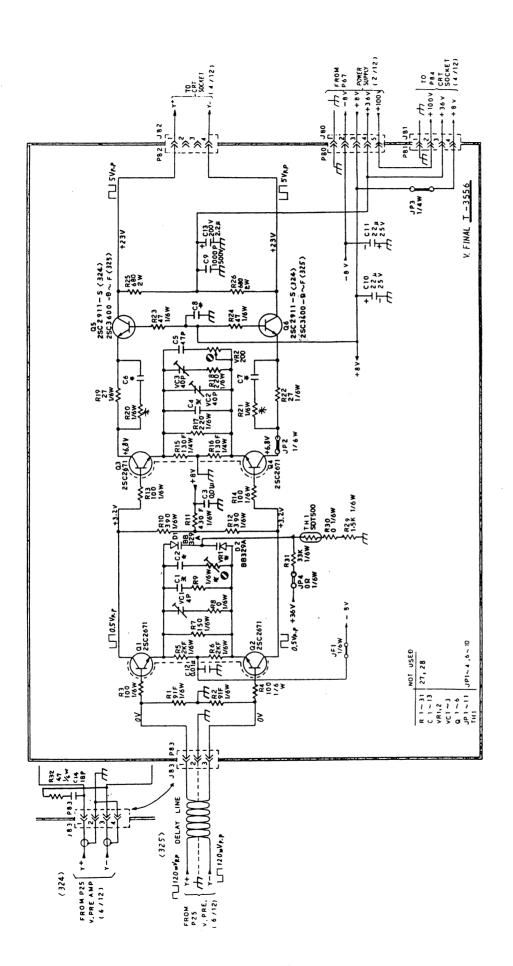




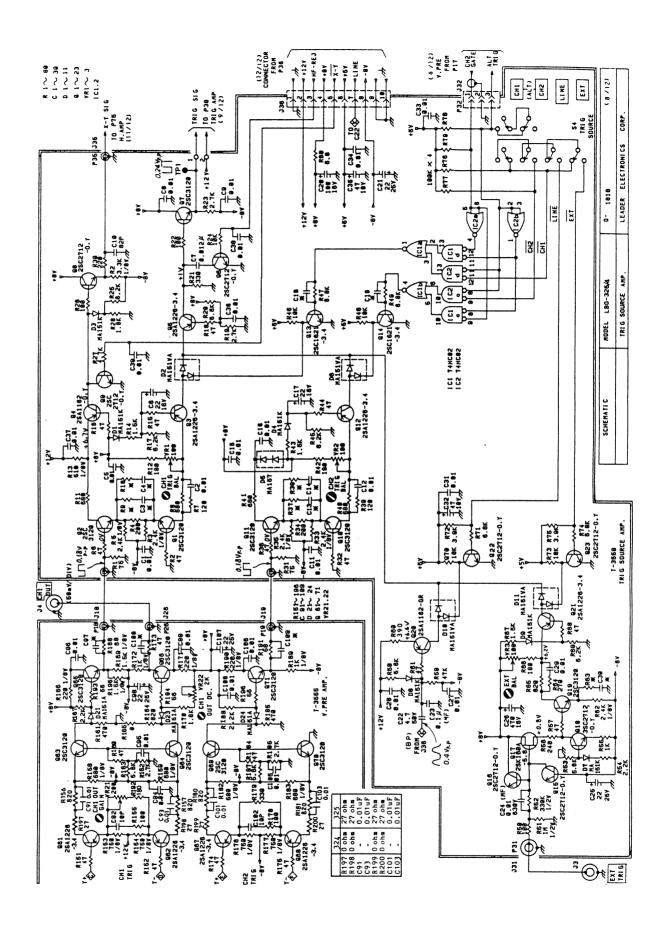
-44-IRN-324/325

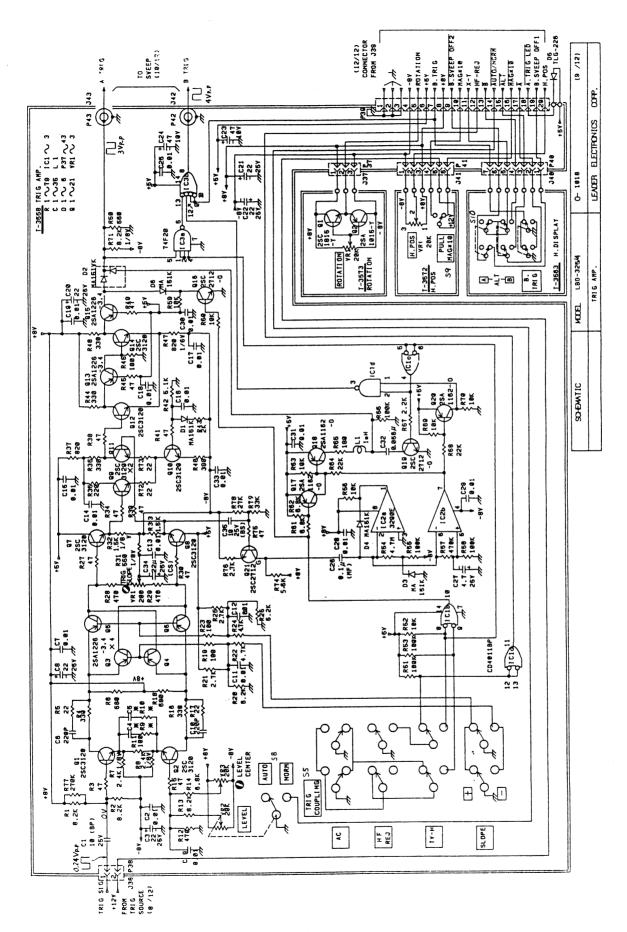


LBO-324/325

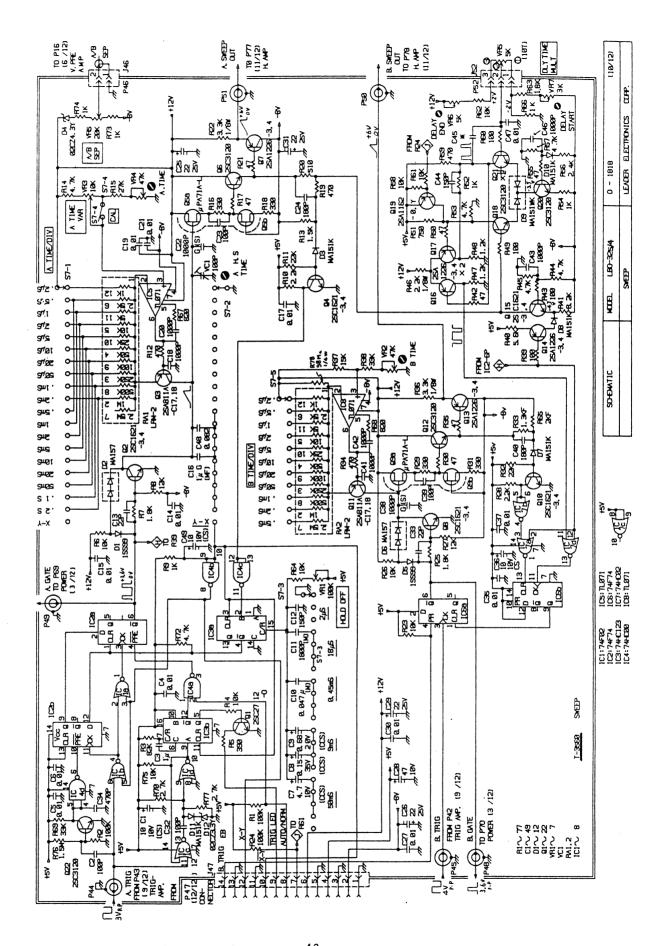


SCHEMATIC	MODEL	LBO - 325/4	(21/12)
	J. V	V. FINAL AMP	LEADER ELECTRONICS CORP.

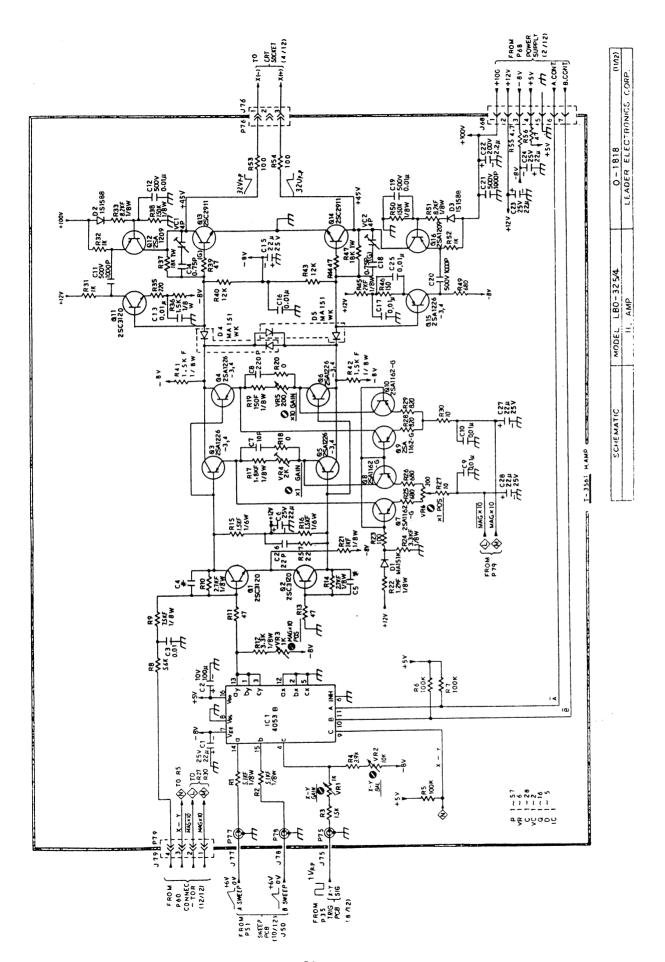




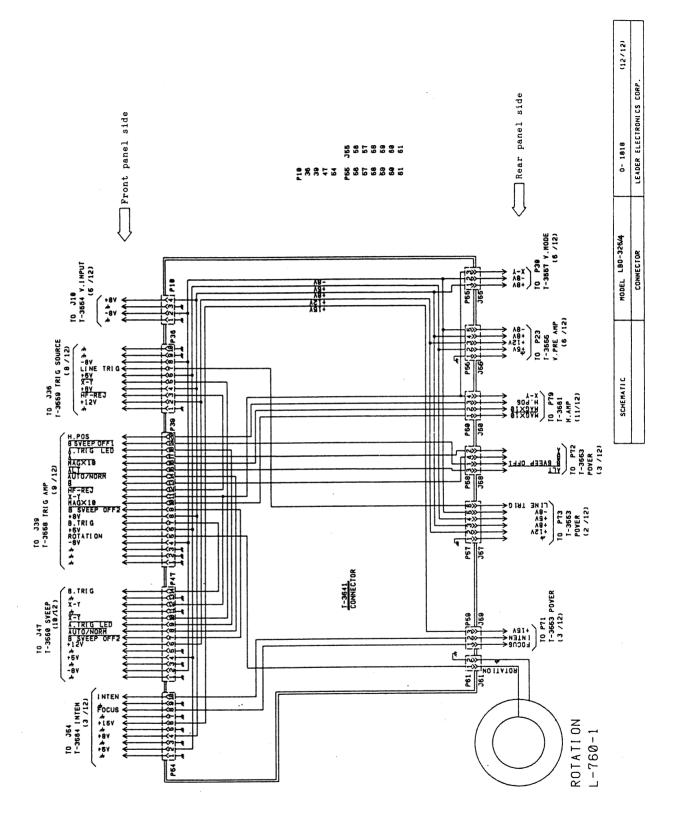
-48-LBO-324/325



-49-LBO-324/325



-50-LBO-324/325



-51-LBO-324/325

## 8. PARTS LIST

	LOR PT No.	DESCRIPTION						0 2	LOR PT No.	DESCRIPTION				
									CONT'D) 1580222003	METAL FILM			38	. 3
-VARIABLE	RESISTOR-				:	:		R24	6	CARBON FILM		6.8 OHM	28.	176W
V.R.1	1940047014	WIRE WOUND	SK OHM	1.5%	G. ₽	LYTIME	#0L - :	R25 R26		METAL GLAZE	CHIP	9.1 OHM	, , , , ,	ma/-
-CAPACITO	-S-							R27		METAL GLAZE	CHIP	330K OHM	5%	1/100
	C) 2180223002	PLASTIC FILM		0. 0224F	 20 - 20 - 20 -	630V 630V		R28	1463602009	METAL FILM METAL GLAZE	CHIP	36K OHM 8.2K OHM	× ×	7.65
<b>3</b>				1				R30	1000332004		į	3.3K 0HM	32	1/64
-CRT-				- (				R31	1650221503		CHIP	220 DHM	N.	17100
	3710053801	CRI		95TB31				R32	1663302306		CHIP	33K OHM 2 9K OHM		30/-
-TRANSFOR	1 ER 1							2 4	1332202008		5	22K OHH	: 32	1.0×1
11 38005	3800531002	TRANSFORMER		J-53(				R42	1650681507		CHIP	680 UHH	50 I	1/106
1000								π π 4 4 5 4	1650470504		CHIP	47. DHM	N IN	E - 7-1
_	3900760014	RUTATOR COIL		1-750-1	·			R 4 51	1010823000			82K OHM	52%	1746
								R46	1650911508		CHIP	910 OHM	25%	1/10W
SUITCHES			0.00	7 170 8	70 one or			8 4 6 8 6	1650181507		CHIP	180 OHM	22.	77106
	4050043009	וטנינוב	98-2101 FSB-707039	ŗ	"POWER"		-	አ 0 4 ቢ	16503470304	METAL	5 5	NHO YES	3 N	200
	4050138609	TOGGLE	8A-2101	CH-2	CH-2 AC-GND-DC	Ξ.		20.00	1650470504	METAL	33		, N	7.00
_			i					R 32	1650681507	METAL	CHI	F	52	17108
USE-								R53	1650681507	METAL GLAZE	CHIP	680 OHM	5,5	1/100
ũ i	4362745000	TIME LAG		ST4 48	-200 - 2005	*1804-264V*		1991 990	C DECISION-					
-	5005515054					: !		VR1	171100404	CERMET	×	OHM 20%	1/30	
-MISCELLA	HOUS-													
	4325005004	INLET	NC-173	2	8 32852 73620	,		-CAPACITOR	0RS-		-	471,5	20.0	25.67
	43/1009883	FUSE MULDEK						- C	2680103002		٠.	0.01 P. 01 P. 01	- 02	200
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								C4	2330076006		•	10001	26%	2004
								C2	2680103002		٠.	0.01uF	10%	204
*** LBIJ-3	47325	POWER	1-3553	* * *				92	2680102000		<u>.</u>	10000	2 6	) o o
-RESISTORS	25-	M IT D DODGOO				1/614		۲ و	2680103002	ELECTRON YTTO	<u>.</u>	0.01UF	200	> 2 C Z
~ ()	1580273804	MFTG OXIDE		33K OHM		3		9 0	2345479005			٠.	20%	326
i M COX	1000683005	CARBON FILM				1768		010	2345479005		r)	4.7uF	202	354
4	1650103507	METAL GLAZE	CHIP			171019		C11	2240222101		ea :	2200uF	28%	254
RS	1669101302	METAL GLAZE	CHIP			18/1		212	2240222101		ധ	2200uF	200	250
98	1461003005		9			30-1		5.5	2344100008		ے د	10.0	, 20 C	> 0 > 0 > 0 > 0
∵ α	1668201303	METAL GLAZE		8.2K OHM		18/1		. io	2344479009			4.7uF	20%	254
6 62	1650823501	METAL GLAZE	CHIP			1/104		C16	2344479009		വ	4.7uF	20%	257
R10	1650823501	METAL GLAZE	CHIP			1/106		C17	2346229008		പ പ	2.24F	20%	200
- - -	1650223507	METAL GLAZE	CHIP			001/1		8 9	2343101004		3.6	1000	N C	<b>&gt;</b> 9 <b>+</b>
R12	1020109005	CARBON FILM		_ 0		1/20		613	2343101004	ELECTRULY 11C		1 8 0 CF	20%	70.00
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<del>+</del> 0	1630221303	METAL GLAZE	4117			1/105		200	2240101109			1004	20%	254
n 4	1650561507	METAL GLAZE	CHIP	. =		17106		C24	2680103002		d I	0.01uF	10.	204
. <b>0</b>	1020103015	CARBON FILM		_		1724		025	2682101606	CERAMIC	Ы	100pF	107	204
. 62	1020109005			_		1724		141	2195007003	COMPOSITIO		20pF	1 0%	2004
<u>م</u>	1661102306	METAL GLAZE	CHIP	1.K OHM		M3/1		042	2020103002	CERAMI		0.01 uF		2004
P.2.0	0		CHIP	J :		10/-		C 43	2020103002		,	0.01uF	****	5000
P21	1668201303	METAL GLAZE	CHIP	8.2K OHM	N :	8 0 V -		4 4 6	2330074002	CERCINOLY 11C	يەر.		202	>000 2000
A SA	5					) -		) r		2	:			) )

· >	E S	0-324/325 V	. INPUT		T-3554	* *			
<b>^</b> 0		-	RBON	FILM		1.0	OHM	2%	19/1
>.	R3	1333303000	TAL	: I L M		330K	OH.	~	1/24
	₩ ₩	1371000008	18L	IL'A		Ξ	ÖH	0.5%	1/2/1
		1650562509	METAL	GLAZE	CHIP	5.6K	HO	22.	1/10
	ě (	6007900091	. H.	iLAZE.		9 .	E S	in i	5
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	950	1665100306	Tai	CI AZE	3	1.0		; :	700
	4.0	1661300300	TAL	GLAZE	E	130	Ä	: 2	- T
	*	1650220501	TAL	GLAZE	SH	22		. 10	1/106
	R42	1660271505	TAL	GLAZE	CHI	270		, in	_
	843	1650820505	TAL	GLAZE	CHI	8		100	1/106
	44	1650473500	ETAL	GLAZE	E	47K	HO	52	2017
	R45	1650563501	ETAL	GLAZE	CHI	<b>56K</b>		5%	1/10
	R46	1650333504	ETAL	GLAZE	CHI	33K		25	1/106
	R47	1650271508	TAL	GLAZE	E	270		2%	1/104
	8 ±	1650181507	TAL	GLAZE	CHIP	186		2%	1/104
	Q44	1650222505	TAL	GLAZE	CHI	× 5		22	7.10
	200	1650222505	TAL	GLAZE	3 3	2 1		in i	2.0
	R52	1650151508	TAL	GLAZE	3	158			2 .
	200	1433000004	1 B	E 1 1 2	6	300	E 3	20.0	19/1
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	9 00	1650331500	ā	CI AZE	3	7 7 9		ï	٠,
	2018	1000100003	PRBOL	F 114	;	-		i in	
	R103	1333303000	TAL	FILM		330K		2	1/5
	R104	1371000008	ETAL	FILM		Ξ		0.5%	1/20
	R105	1650562509	ETAL	GLAZE	CHI	5. 6K		33	21.0
	R106	1650562509	ETAL	GLAZE	CHI	5.6K		33	1/100
	R107	1650101503	ETAL	GLAZE	CHI	100		2%	_
	R108	1650101503	ETAL	GLAZE	CHIP	100		2%	7.10
		1650221503	TAL	GLAZE	CHI	220		22	-
	R112	1650562509	TAL	GLAZE	E	. 6K		5%	9
	R113	1650681507	TAL	GLAZE	E	089		32	9
	- W	1650121509	TAL	GLAZE	E	150		s S	-
	R115	1650223507	TAL	GLAZE	E	22K			0
	R132	1361000047	TAL	<u>ا</u> ا		Ξ		0.5%	*
	A	1453301008	TAL	F 1		3. 3K			9
	R136	1422100000	TAL	I.		510			`
	R137	1650390506	ET 8 L	GLAZE	0	<u>ه</u>	HO	i d	1017
	2	16367783	9						
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0	LDR PT No.	DESCRIPTION			
1-355	ONT'D)				
C46	2343220002	ELECTROLYTIC .	22uF	26%	167
C47	2342470009	ELECTROLYTIC	47UF	202	<b>&gt;</b> 0 -
C48	2680103002	CERAMIC CHIP	0.01 LF	1 0%	204
0 <b>4</b> 0	2343220002	ELECTROLYTIC	22uF	20%	164
TRIBNOT-	TOP 5-				
	2 6 6	22 02 2	0-050-0		
	20000000000	0110	25022		
7 F	3030130003		2515150		
2 6	2010010000		2561010		
, n	3011012007	071		>	
2 4	20112562002				
5.0	3032712005	NPN CHIP		٥ <b>،</b> ۲	
	3040859000				
9 6	3033138005	NPN CHIP	2SC3138		
	3033138005		2803138		
	3011012007		2561012		
012	3011162015	PNP CHIP		٥ ×	
021	3011245000				
022	3011209006	PKP	2541209-S		
023	3032911001		29C2911-S		
924	3033120006	NPN CHIP	2803120		
-010066-					
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4			19791		
92			MA151K		
90		DETECTOR CHIP	MA151K		
20		BRIDGE RECTIFIER	2005		
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010		RECTIFIER	10261		
021	3113004008	DETECTOR CHIP	MA151K		
AUTEODA	STITUTE				
101	1458021	OP OMP	MC 14580P1		
: 2	2008001002	PERM ATOR	M5236i		
103	3212805004	REGULATOR	HA17805P	+54	
104 322	3220161001	REGULATOR	M5230L		
-FUSE-	0000	70.00	0000		
-	10000				
-PC BUARD	RD- 5903553024		T-35538		
-MISCELLANOUS	LANOUS- 4371008001	FUSE CLIP	S-N5053		
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	! ! !	0.014		0.2	22uF			220uF		01 uF	15pF	18pF			2-12pF 250V	-12pF 2		2803120	2803120	UPA71A-L	2503120	2SC3120	2803120	2863120	UPA/18-L 28f3128	2502120	4		TAM 0	MAI	TA.	P MAI	۵. ۱	CHIP MAIS?				541	542 "CH-2	+		1-35548								
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LDR PT No.	CONT'D)	2680103002	2680103002	2681209105	2440220002	2440220002	2680103002	2230221102	2680103002	2680103002	2681150603	2681180602	2680103002	_	i	2910048005	CTOB6-	3033120006	3033120006	3090026008	3033120006	3033120006	3033120006	3033120006	3033120006	3033120005		,	31	_	-	_		3113003006			S-	4000541000	4000542002	0001+0000+	RD-	5903554026								
. NO.	C1-3554	C113	C114	C116	200	6010	C121	C122	C123	C125	C126	C127	C129	801900-	VC2	VC102	Tonogr	9	05	93	Q12	<b>Q13</b>	010	0102	20103		?	-DIODES		0.5	90	20	010	0192	0107		-SUITCHE	25	98	2016	-PC BOARD									
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1	7/104	187	1/109	1/100	701/1	1/10	1/100	17.106	1/100	1 / 1 0 W	1/6W	1/10E	1.66	10.7	1/100											6304	204	504	504	164	200	200	5	200	200	164	206	9	20%	- 10	204	205	204	504	4029	200	50 K	797	205	200
	ů	30	5%	10 i	in i	o in	: XS	35	33	32	0.5%	S.	0.5%	ខេត្ត	22.		1/51	7/26	1/54	1.754	1/54	1/54	7.25	1/26		10%	10%	0.25pF	10%	20%	1 0%	10%	70.		0.25pF	20%	10%	29%	× 6 6			10%		1 0%	10%		0.25pF	20%	20-	
1		270 OHM			SEK DHM			.2K DHM						27 D DHM	330 OHM				25%							0.010F	100pF	101	68pF	220uF	0.01uF	0.01uF		0.01 0.01 0.01	•		0.01uF	22uF	0.016F	71000	0.01uF	150F	18pF	0.01uF		100pF	1pF	220uF	0.01uF	0.01tdf
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	ı	<b>8 1 1 1 1 1 1 1 1 1 1</b>	-	_	-	7 4 1 0		-	-	_	-	•	-	π. σ. σ.	5	0	19	- (c	1 P)	۲. د د د	VR101	VR102	VR 100	VR 1 05	-CAPACITO	į _	. 2	C3	80	60	010		513	2.5	9	613	613	C <b>2</b> 1)	521	225	(25	960	622	620	C101	C1 02	C103	80.0	3110	

-54-

5x 1/104 R195 1660152507 5x 1/104 R195 1660152507 5x 1/104 PR1 PR1 PS 1650270506 5x 1/104 PR1 PR1 PR1 PS 1650270506 5x 1/104 PR2 17110040131 5x 1/104 PR2 17110040133 5x 1/104 PR2 17110040133 5x 1/104 PR2 1711004015 5x 1/104 PR2 171100103002 5x 1/104 PR2 1711004015 5x 1/	0002 0002 0002 0002 0002 0002 0002 000	C CHIP C	CHIP 1.5K OHM CHIP 56 OHM 20 OHM 20 20 20 20 0HM 20 OHM 20 20 20 20 0HM 20 OHM 20 20 20 20 0HM 20 OHM 20 OHM 20 0HM 20 OHM 20	0000 000 000 000 000 000 000 000 000 0
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7.100 VRS 7.100			5 5 5 5 5	0
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1788   C   C   C   C   C   C   C   C   C		CTROLYTIC ANIC CHIP	0.0122 0.0107 0.0107 0.0107 0.0107 0.0107 0.0107 0.0107 0.0107 0.0107 0.0107 0.0107	0 .2 - 2 .0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1784   C-APACITIC   1784   C-APACITIC   C-		ANIC CHIP ANIC CHIP	222 cm m m m m m m m m m m m m m m m m m	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1.08   C.1   C.1   C.2   C.2   C.2   C.3		CTROLYTIC ANIC CHIP ANIC CHIP ANIC CHIP ANIC CHIP ANIC CHIP CTROLYTIC ANIC CHIP	222 0.00 0.00 0.00 0.00 0.00 0.00 0.00	0 .22 - 22 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2
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1/84   C   C   C   C   C   C   C   C   C		AMIC CHIP AMIC CHIP CTROLYIC CTROLYIC AMIC CHIP AMIC CHIP CANIC CHIP CANIC CHIP CANIC CHIP CANIC CHIP	0.00.00 0.00.00 0.00.00 0.00.00 0.00.00 0.00.0	. X X X X X X X X X X X X X X X X X X X
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1788 C15 1788 C15 1788 C17 1788 C17 1788 C17 17108 C18 17108 C22 17108 C22 17108 C23		> >	0.01uF	6
1/104   C  14		> >	0.01 0.01 0.01 0.01 0.01	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
		> >	224F 0.014F 0.014F	2 0 2 0 3 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
1/104 1/284		<b>&gt;</b> -	0.01uF	C
1784   C17   C18   C19		<b>&gt;</b> -	0.01uF	70.
1,104   C19   C1		<b>&gt;</b> -	0.01CF	28.
		CTROLYTIC		
784   784   7104   71		AMIC CHIP	22 cf	20%
1/84   C21			0.014	1 0%
1,100 1,100			i :	
			0.01EF	* n
			0.014	- 0%
17.104 17.84 17.84 17.104 17.1		CERAMIC CHIP	0.014F	- - -
1/84   C27   C28		ELECTROLYTIC	32 LIF	20%
17.00 17.100 17.		OLDO CINCOLO	9100	*0.
17.104 C32 C34		OKAN IOGEO	500	- 0
1/104 C23 1/104 C33 1/104 C33 1/104 C33 1/104 C35 1/104 C35 1/104 C35 1/104 C35 1/104 C35 1/104 C35		יוואטריויי	2205	Y 0 Y
1/104 C33 1/84 C32 1/84 C33 1/84 C34 1/104 C35 1/104 C36 1/104 C36 1/104 C36		RAMIC CHIP	0.01cF	20-
17.10V C32 17.8V C32 17.8V C34 17.10V C35 17.10V C35 17.10V C35 17.10V C35		MANIC CHIP	0.01uF	- 0.5
1/84 1/84 1/84 1/104 1/1		GHID CHIP	r c c	0.05cF
1784 C33 1784 C33 17104 C35 17104 C35 17104 C35 17104 C35 17104 C35			1110	
1/84 C33 1/104 C35 1/104 C35 1/104 C35 1/104 C36 1/104 C38			0.0	۲ -
1788 17108 1	_	CERAMIC CHIP	0.01uF	20.
1710U 1710U		CERAMIC CHIP	0.01uF	10%
1/104 C38			4	200
17100 C337 737 738 737 738 737 738 737 738 737 738 738			10.0	*
1/104 C38			0.01uF	20.
1/108 1/108 1/108 1/808	2680103002 CER		0.014F	×0-
20171	Ī	CERAMIC CHIP	0.0146	1.0%
100		2	37	
200		CIROLI IC	25 dr	202
N	680103002 CER	CERAMIC CHIP	0.01uF	% -
17811		OTHO CHIP	מייני ט	1 0%
100	100000000000000000000000000000000000000		1 1 0	
970		CERHIIC CHIP	ים ים	2
**************************************		CTROLYTIC	22uF	>0.2
1017 ·	253 6005010536	CERONIC CHIP	0.0111F	7.01
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DESCRIPTION

LDR PT NO

No. LDR PT No.	3555	3011162	020 3031907004		023 3031907004			000 2023120006						G32 3032712005			962 3033120006			Gec 3033120006	967 3011226006		3033120006	303312000		-0100ES-	3113001	3113001		13001	3113000	3113000	1300000	5	-INTEGRATED CIRCUITS-				104 3420123119		-PC BOARD-		-							
		204	70.V	206	504	204	200	> ?	254	200	25V	206	254	204	) i	> 1c	206	507	204	204	200	> 0 0	200	254	504	204	206	A 10	250	•																				
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		0.01cF	71.12 71.16	F2 - 0	9.10	33pF	33pF		22 uF	0.01uF	22uF	0.01uF		0.01uF	- L		22pF	22pF	0.14F	0.1uF		- C			0.01uF	_	٩.	9.01	22uF	•		2.8-10pF	3.3-18pF		2SC1907	2801907	2SC3120	2503120	25H1226-	25A1226-3	28A1226-	2SC2712-(	2302712-0	2501621-	2502712-0	25727750	2502015-0	2861226-	25A1226-3	2802712-0
DESCRIPTION		CERAMIC CHIP	CEPOMIC CUIP	;		CERAMIC CHIP	CERAMIC CHIP	CERMILL	ELECTROLYTIC	CERAMIC CHIP	ELECTROLYTIC	CERAMIC CHIP	ELECTROLYTIC	CERAMIC CHIP	CELECINOL 110	FIRETROLYTIC	CERAMIC CHIP	CERAMIC CHIP	CERAMIC	CERAMIC	CERAMIC CHIP	CERMIC CHIP	CERAMIC CHIP	ELECTROLYTIC	CERAMIC CHIP			-	ELECTROLYTIC			CERAMIC	CERAMIC		NPN	XPX	<u>ن</u> د	NFN CHIP	5 5	ט נ	PNP CHIP	CHI	. ن	CHI	NPN CHIP	בונים ביונים	3 3	H	CHI	CHI
LDR PT No. (	ONT 'D'		2344220008											2680103002													2680103002	2680103002	2344220008			291001	2910020003	.0RS-	3031907004	3031907004	3033120006	3033120006	3011225005	3011226006	3011226006	3032712005	3032712005	3031621006	3032712005	3032712003	3032712005	3011226006	011226	03271200
О	3555		ت م م م																890	ψ.)	26		7 7	2 2			C105		C107	00.10	-VARIABLE		463	-TRANSISTORS	eo.					20			9	- 1	o r		et la	2 .2	210	-

TC74NC08P TC74NC02P TC74NC109P MC74NC123N 74LS123

DUAL CHIP DUAL CHIP DUAL CHIP DUAL CHIP CHIP CHIP CHIP CHIP

DETECTOR 1 DETECTOR 1

DESCRIPTION

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VR1 VR2 - CAPACITO C1 C2 C3 C4 - SWITCH-	-PC BOARD -PC BOARD -++ LB0-3 -RESISTOR	* * * * * * * * * * * * * * * * * * *	88 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	R15 R16 R19 R20 R22 R23 R23 R23 R23 R24
	n n n	>>>>>> >>>>		
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**************************************	5% 5% 5/3#	10% 20% 20% 20%	250V 250V 250V	
	1.5K 33K 0.00 OHM 2	479F 1000pF 22uF 22uF 0.01uF 2.2uF	1.5-5.5 4-40pF 4-40pF	25C2671 25C2671 25C2671 25C2671 88329A 88329A
	FILM	1.471C 3.471C 3.471C	uuu	a a
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	100 OHH 5% 1/64 VRI 1816006219 CARBON FILM 20K/20K OHM 20% 1/2 100 OHM 5% 1/64 VRZ 1816006219 CARBON FILM 20K/20K OHM 20% 1/2 130 OHM 1% 1/44 CAPACITORS— 220 OHM 1% 1/64 C1 2010103005 CERAMIC 0.01uF 27 OHM 5% 1/64 C4 2010103005 CERAMIC 0.01uF 0.01uF 47 OHM 5% 1/64 C4 2010103005 CERAMIC 0.01uF 0.01uF 47 OHM 5% 1/64 C4 2010103005 CERAMIC 0.01uF 0.01uF 5% 1/64 S% 0 OHM 5% 2 U SI 4000537009 PUSH 0-537 "V NODE" 680 OHM 5% 2 U	100 OHH 5% 1/64 VRI 1816006219 CARBON FILM 20K/20K OHH 20X 1/20U 100 OHH 5% 1/64 VR2 1916006219 CARBON FILM 20K/20K OHH 20X 1/20U 130 OHH 1% 1/44 CAPACITORS— 220 OHH 1% 1/64 CC2 2010103005 CERAMIC 0.01uF 220 OHH 5% 1/64 CC2 2010103005 CERAMIC 0.01uF 27 OHH 5% 1/64 CC3 2010103005 CERAMIC 0.01uF 28 OHH 5% 1/64 CC3 2010103005 CERAMIC 0.01uF 27 OHH 5% 1/64 CC3 2010103005 CERAMIC 0.01uF 28 OHH 5% 1/64 S1 1/64 S1 1/64 S1 1/64 S1 1/64 S903557022 TRIG COUPLING T-3558 ***  200 OHH 20% 1/3U  ***********************************	100 0HH   5% 1/64	100 OHH   5%   1/640   VR    1816006219   CARBON FILM   20K/20K OHH   20% 1/20U     130 OHH   1%   1/44

"CH-1 POS" "CH-2 POS"

50V 50V 50V 50V

CT-3559 CONT'D)  -VARIABLE RESISTORS- VR2 1911003212 CERNET 200 OHH 20% 1/3U  -CAPACITORSCAPA	1 1986 1 1986 1 1987 1 1987	5 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ERMET OK OHM ERMET	200	'	1/34 1/36	
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\$6103507 NETAL GLAZE CHIP 10K OHN 5X 1/7  50223507 NETAL GLAZE CHIP 22K OHN 5X 1/7  50104509 NETAL GLAZE CHIP 180 OHN 5X 1/7  502023507 NETAL GLAZE CHIP 10K OHN 5X 1/7  502023507 NETAL GLAZE CHIP 2.2K OHN 5X 1/7  50103507 NETAL GLAZE CHIP 2.2K OHN 5X 1/7  50103507 NETAL GLAZE CHIP 10K OHN 5X 1/7  50103507 NETAL GLAZE CHIP 10K OHN 5X 1/7  5020501 NETAL GLAZE CHIP 2.2K OHN 5X 1/7  5022500 NETAL GLAZE CHIP 5.6K OHN 5X 1/7  5022501 NETAL GLAZE CHIP 5.8K OHN 5X 1/7  5022501 NETAL GLAZE CHIP 5.8K OHN 5X 1/7  5027500 NETAL GLAZE CHIP 5.7K OHN 5X 1/7  5027500 NETAL GLAZE CHIP 5.7K OHN 5X 1/7  5027500 NETAL GLAZE CHIP 2.7K OHN 5X 1/7  50273502 NETAL GLAZE CHIP 2.7K OHN 5X 1/7	_	106825	METAL	GLA.	CHIP		E C	22	
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50103509 METAL GLAZE CHIP 100K 0HR 5% 1/3 100222505 METAL GLAZE CHIP 100K 0HR 5% 1/3 100222505 METAL GLAZE CHIP 22K 0HR 5% 1/3 10022505 METAL GLAZE CHIP 22K 0HR 5% 1/3 10020507 METAL GLAZE CHIP 10K 0HR 5% 1/3 100220501 METAL GLAZE CHIP 22 0HR 5% 1/3 10020501 METAL GLAZE CHIP 22 0HR 5% 1/3 100562509 METAL GLAZE CHIP 5.6K 0HR 5% 1/3 100562509 METAL GLAZE CHIP 5.6K 0HR 5% 1/3 100562500 METAL GLAZE CHIP 5.7K 0HR 5% 1/3 100562500 METAL GLAZE CHIP 2.7K 0HR 5% 1/3 1005627500 METAL GLAZE CHIP 2.7K 0HR 5% 1/3 1005627500 METAL GLAZE CHIP 2.7K 0HR 5% 1/3 1005627500 METAL GLAZE CHIP 2.7K 0HR 5% 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3		501815		L A	THI.		E	'n	
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00103507		501035		5	F :	ž ;	E HO	'n i	
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\$0220501		5 0 2 2 0 5		9	CHIL	7 :	E :	ć i	
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0470504 METAL GLAZE CHIP 47 0HN 5% 1/1 50272500 METAL GLAZE CHIP 2.7K 0HM 5% 1/1 50273502 METAL GLAZE CHIP 27K 0HM 5% 1/1 50273502 METAL GLAZE CHIP 27K 0HM 5% 1/1		202625		GLA	CHIP		E I	א הו	
50272500 NETAL GLAZE CHIP 2.7K DHM 5% 1/1 50274504 METAL GLAZE CHIP 270K DHM 5% 1/1 50273502 METAL GLAZE CHIP 27K DHM 5% 1/1		504705		GLA	CHIP		-	2%	
50274504 METAL GLAZE CHIP 270K OHM 5% 1/1 50273502 METAL GLAZE CHIP 27K OHM 5% 1/1		502725		GLA	CHIP			22	
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		5027350		GLAZ	CHIP	27K	0	S	

	LDR PT No.	DESCRIP	110N					
1-355	NO	! ! ! !	; ; t	1		; ; ;	! ! !	! !
9	5010150	ETAL	GLAZE	-	100	OHM	2%	17106
	5047250	ETAL	Œ	_	•	OHM	33	2
٠.	5018250	ETAL	Œ	-	1.8K	DHM	5.	-
R29	033520	METAL G	Œ	CHIP	3.38	OHM	3,5	1871
-	5022150	ETAL	Œ	-	229	OHM	2%	-
-	1075050	ETAL	Œ	-	75	OHM	25	<u>-</u>
-	5047050	ETAL	Œ	-		OHM	3	2
-	024220	METAL G	GLAZE	-	2.4	OHM	2%	Õ
-	5020150	ETAL	⇜	-	n		ις ?:	2
•	024220	ETAL	Œ	-	₹ ¥		S.	Ν.
~	5047050	ETAL	Œ	-	4	OHM	Š	2
~	5012150	ETAL	Œ	-	120		2%	-
-	5068150	ETAL	Œ	-	689		22	-
-	5068150	METAL G	Œ	-	680		2%	-
-	5018150	ETAL	Œ	-	180		2%	-
-	5015250	ETAL	Œ	-	- 5K	DHM	2%	17104
-	5047050	ETAL	Œ	-	4.7		2%	-
R45	5062250	ETAL	Œ	$\vdash$	6.2K		32	-
R46	5010350	ETAL	Œ	-	-	OHM	S	-
R47	5068250	ETAL	Œ	-	9.8K		25%	-
R48	5010350	ETAL	Œ	CHIP	_		2%	
R49	5068250	ETAL	Œ	-	6.8K		22,2	1/100
RSU	5010150	ETAL	Œ	-	103		2%	0
RS1	2010500	ARBON	FILM		Ξ		2%	٦.
R52	2033400	CARBON	FILE		330K		2%	$\tilde{}$
R53	5056250	ETAL	LAZE	CHIP	•		2%	-
R54	5022250	ETAL	LAZE	CHIP	•		2%	-
RSS	5010250	ETAL	LAZE	CHIP	ž		2%	ē
R56	5024150	ETAL	LAZE	CHIP	249		2%	_
R57	5047050	ETAL	LAZE	CHIP	47		2%	1/108
RSB	5056250	ETAL	LAZE	CHIP	•	-	2%	-
RSA	5047258	ETAL	LAZE	CHIP	4.7K		2%	-
R60	5039150	ETAL	LAZE	CHIP	396		2%	-
R61	5047050	ETAL	LAZE	CHIP			22	-
R62	6024250	METAL G	LAZE	CHIP	⊘ 4.	OH.	22	$\overline{}$
R64	5027150	ETAL	LAZE	CHILD	270		25	-
R65	5082150	ETAL	LAZE	CHIP	850		2%	-
R66	5018150	ETAL	LAZE	CHIP	-		22	-
R67	5015250	ETAL	LAZE	CHIP	. SK		2%	-
R68	5047050	ETAL	LAZE	CHIP			25	-
R69	5062250	ETAL	LAZE	CHIP	6.2K	OH.	2%	-
R70	5010350	ETAL	LAZE	CHIP	-		2%	-
R71	5068250	METAL G	LAZE	CHIP	6.8K		2%	_
R7:2	5039250	ETAL	LAZE	CHIP	•	5	2%	2
R73	5010350	ETAL	Ľ	CHIP	-		2%	2
R74	5068250	METAL G	۳.	Ξ	6.9 8	OHI	22%	-
R75	5039250	ETAL	۳.	Ξ	•		52	-
R76	1650104509	METAL G	LAZE	CHIP	•	5	2%	- 2
R77	5010450	ETAL	ັ ເ	Ξ:	100K	E .	33	
R78	5010450	ETAL	٠.	=	100K	E .	32	-
R79	1650104509	HETAL G	LAZE	CHIP	100K	E C	22.5	
R80	506895	ETAL	LAZ	Ξ	8.9	ō	in in	ē - / -

15   302712005   NPH CHIP   2562712-0 or Y   15   3011162015   NPH CHIP   2581162-0 or Y   15   30111620105   NPH CHIP   2582712-0 or Y   15   30111620105   NPH CHIP   2582712-0 or Y   15   301116201005   NPH CHIP   2582712-0 or Y   15   301116201005   NPH CHIP   2582712-0 or Y   15   301116201005   NPH CHIP   2582712-0 or Y   15   30111602004   NPH CHIP   2582712-0 or Y   15   30111602004   NPH CHIP   NPH SINK   NP										
301162015 PHP CHIP 2541162-0 or Y 301162015 PHP CHIP 2541162-0 or Y 3012712015 PHP CHIP 2541162-0 or Y 3012712014 PHP CHIP 2561162-0 or Y 25113004008 DETECTOR CHIP HA151K A113004008 DETECTOR CHIP HA151K A113004008 DETECTOR CHIP HA151K A113004008 DETECTOR CHIP HA151K A1130041002 DETECTOR CHIP HA151K A1130041004 DETECTOR CHIP HA151K A113004104 DETECTOR	œ	ONT D) 03271200	Z C	CHIP		2502	-2		<b>.</b>	
3011162015 PNP CHIP 2587182-0 or Y 30113004008 DETECTOR CHIP MAISIK 3113004008 DETECTOR CHIP MAISIK MAISIK MAISIK 3113004008 DETECTOR CHIP MAISIK MAISIK MAISIK 3113004008 DETECTOR CHIP MAISIK MAI		01116201	d l	CHIP		2SA1	2		<b>-</b> :	
3012712015 NPN CHIP 2552712-0 or Y 3012712015 NPN CHIP 2552712-0 or Y 301110204008 DETECTOR CHIP AN151WK 3113004008 DETECTOR CHIP AN151WK 3113004008 DETECTOR CHIP AN151WK 3113004008 DETECTOR CHIP AN151WK 3113004008 DETECTOR CHIP AN151WK 3130041002 LEECTOR CHIP AN151WK 3130041002 LEECTOR CHIP AN151WK 3130041002 LEECTOR CHIP AN151WK 3130041002 LEECTOR CHIP AN151WK AN151WK 3130041002 LEECTOR CHIP AN151WK A		01116201	d. Q.	CHIP		2SA1	2		<b>-</b>	
3011162015 PNP CHIP 25A1162-U or 7 3113004008 DETECTOR CHIP MAISIK 3113004009 DETECTOR CHIP MAISIK 3113004009 DETECTOR CHIP MAISIK 3113004009 DETECTOR CHIP MAISIK 3113004009 DETECTOR CHIP MAISIK 3113004102 DETECTOR CHIP MAISIK 3113004102 DETECTOR CHIP MAISIK 3113004102 DETECTOR CHIP MAISIK 3113004102 DETECTOR CHIP MAISIK 311001021 CMCDITS		03271200	2	CHIP		2502	2 :		<b>-</b> :	
3113004008 DETECTOR CHIP MAISIK 3113004009 DETECTOR CHIP MAISIK 3113004009 DETECTOR CHIP MAISIK 3113004009 DETECTOR CHIP MAISIK 3130031007 LED TLG-226 3130031007 LED TGCOR CHIP MAISIK 313004009 DETECTOR CHIP MAISIK 313004009 DETECTOR CHIP MAISIK 31300410021 CMOS 32310011021 CMOS 32310011021 CMOS 3290020002 TTL CMOS 3290020002 TTL CMOS 320020002 TTL CMOS 320020002 TTL CMOS 32002000 METAL CLAZE CHIP TS ON THE CMOS 165042508 METAL CLAZE CHIP TS ON THE CMOS 165061507 METAL CLAZE CHIP TS ON THE SS 165061507 METAL CLAZE CHIP TS ON THE CMOS 165061507 METAL CLAZE CHIP TS ON THE CMOS 165061507 METAL CLAZE CHIP TS ON THE CMOS 165062501 METAL CLAZE CHIP TS ON THE CMOS 1650601507 METAL CLAZE		03271201	Z Z	CHIP		2SC2	72		<b>-</b>	
3113004008 DETECTOR CHIP MAISIK 3113004008 DETECTOR OUAL CHIP MAISIK 3113004008 DETECTOR CHIP MAISIK 3113004008 DETECTOR CHIP MAISIK 3113004008 DETECTOR CHIP MAISIK 3113004008 DETECTOR CHIP MAISIK 3213290003 COMPARATOR CA3290E 329020003 COMPARATOR CA3290E 329020003 COMPARATOR CA3290E 329020003 TIL TIL SOURCE CHIP AFEO PC 5903550024 TIL CA356 TRIG COUPLING* 600536016 PUSH GLAZE CHIP AF OHM SX 1650205050 METAL GLAZE CHIP AF OHM SX 165012050 META										
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3113004008 DETECTOR CHIP HA151K 3210011021 CM93 3213229003 COMPARATOR 7AF20 PC 3290220002 TLL 4000536016 PUSH G-536A TRIG COUPLING* 5903558024 TRIG SOURCE T-3559 *** 66024250 HETAL GLAZE CHIP 75 0HM 5% 1650242508 HETAL GLAZE CHIP 747 0HM 5% 1650242508 HETAL GLAZE CHIP 240 0HM 5% 1650242508 HETAL GLAZE CHIP 240 0HM 5% 1650242509 HETAL GLAZE CHIP 240 0HM 5% 1650242509 HETAL GLAZE CHIP 247 0HM 5% 165042509 HETAL GLAZE CHIP 247 0HM 5% 1650242509 HETAL GLAZE CHIP 247 0HM 5% 1		200	DETEC	TOR D	H	MA 15	¥¥.			
3113004009 DETECTOR CHIP HA151K 3130031007 LED TICG-226 3130031007 LED TICG-226 32910011031 CMOS 3213290003 COMPGRATOR CHIP HA151K 3291020002 TTL 74F20 PC 329022002 TTL 74F20 PC 329022002 TTL 74F20 PC 3290350016 COJL 11mH 400536016 PUSH GLAZE CHIP 75 OHM 5% 1650470504 METAL GLAZE CHIP 2.4K OHM 5% 1650470504 METAL GLAZE CHIP 2.4K OHM 5% 1650470504 METAL GLAZE CHIP 2.4K OHM 5% 1650470504 METAL GLAZE CHIP 47 OHM 5% 1650470504 METAL GLAZE CHIP 689 OHM 5% 1650470504 METAL GLAZE CHIP 680 OHM 5% 1650470504 METAL GLAZE CHIP 67 OHM 5% 1650470504 METAL GLAZE CHIP 67 OHM 5% 1650470504 METAL GLAZE CHIP 75 OHM 5% 1650470504 METAL GLAZE CHIP 7		400	DETE	TOR	CHIP	MAIS	¥			
1130031007   LED		400	DETEC	TOR	CHIP	MAIS	¥			
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TEO CIRCUITS-  CHOS   CA3290E   TC40118P   TAF20 PC   TTL   CA3290E   TTL   TAF20 PC   TAF20 PC   TTL   TAF20 PC   TAF20 PC   TTL   TAF20 PC   TTL   TAF20 PC   TTL   TAF20 PC   TAF20 PC   TTL   TTL   TAF20 PC   TAF20 PC   TTL   TAF20 PC   TAF20 PC   TAF20 PC   TTL   TAF20 PC   TAF20		400	DETE		CHIP	MA	¥			
1234/325   CMOS   CMOS   CMO118P   CA3290E   CA3290002   CMOPARATOR   CA3290E   CA3290002   CMOPARATOR   CA3290E   CA3290002   TTL   CMOS36016   COIL   CMOPARATOR   CA32900E   CMOPARATOR   CMOPARATO		FO CIRCUITS								
29701020002 TTL		3310011021	CMOS			2	11 BP			
3970102006 COIL IMPH  4000536016 PUSH Q-536A "TRIG COUPLING"  5903558024  1-324/325 TRIG SOURCE T-3559 ***  1650470504 METAL GLAZE CHIP 75 OHM 5% 1650242508 METAL GLAZE CHIP 2.4K OHM 5% 1650242508 METAL GLAZE CHIP 2.4K OHM 5% 1650242508 METAL GLAZE CHIP 2.0 OHM 5% 1650242508 METAL GLAZE CHIP 2.4K OHM 5% 1650242508 METAL GLAZE CHIP 2.4K OHM 5% 1650242508 METAL GLAZE CHIP 2.4K OHM 5% 1650121509 METAL GLAZE CHIP 2.4K OHM 5% 1650121509 METAL GLAZE CHIP 689 OHM 5% 165010306 METAL GLAZE CHIP 689 OHM 5% 165010306 METAL GLAZE CHIP 1.5K OHM 5% 165010306 METAL GLAZE CHIP 1.5K OHM 5% 165010306 METAL GLAZE CHIP 1.5K OHM 5% 1650470504 METAL GLAZE CHIP 6.2K OHM 5% 1650470504 METAL GLAZE CHIP 6.2K OHM 5% 1650470504 METAL GLAZE CHIP 7.5K OHM 5% 1650470504 METAL GLAZE CHIP 7.5K OHM 5% 165052500 METAL GLAZE CHIP 7.0K OHM 5% 165010350 METAL GLA		21329000	COMP	RATOR		G 4	19 0E			
Page										
## 17500536016 PUSH Q=536A *TRIG COUPLING**  5903558024  5903558024  1550470504 METAL GLAZE CHIP 75 0HM 5% 1650201507 METAL GLAZE CHIP 77 0HM 5% 1650201507 METAL GLAZE CHIP 2.4K 0HM 5% 1650201507 METAL GLAZE CHIP 2.00 0HM 5% 165061507 METAL GLAZE CHIP 2.00 0HM 5% 165061507 METAL GLAZE CHIP 2.4K 0HM 5% 165061507 METAL GLAZE CHIP 2.00 0HM 5% 165061507 METAL GLAZE CHIP 689 0HM 5% 165062501 METAL GLAZE CHIP 6.2K 0HM 5% 1650470504 METAL GLAZE CHIP 6.2K 0HM 5% 1650470504 METAL GLAZE CHIP 77 0HM 5% 165052500 METAL GLAZE CHIP 77 0HM 5% 165052500 METAL GLAZE CHIP 77 0HM 5% 1650052500 METAL GLAZE CHIP 77		97010200	COIL			-	Į			
## 1-3560										
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1324/325 TRIG SOURCE T-3559 ***  165075050 NETAL GLAZE CHIP 75 0HM 5% 1650242508 NETAL GLAZE CHIP 2.4K 0HM 5% 1650242508 NETAL GLAZE CHIP 2.4K 0HM 5% 165021509 NETAL GLAZE CHIP 47 0HM 5% 165021509 NETAL GLAZE CHIP 12.0 0HM 5% 1650215030 NETAL GLAZE CHIP 180 0HM 5% 1650181507 NETAL GLAZE CHIP 180 0HM 5% 1650181507 NETAL GLAZE CHIP 180 0HM 5% 1650182504 NETAL GLAZE CHIP 1.5K 0HM 5% 1650142504 NETAL GLAZE CHIP 1.5K 0HM 5% 1650142504 NETAL GLAZE CHIP 47 0HM 5% 1650142504 NETAL GLAZE CHIP 47 0HM 5% 1650142504 NETAL GLAZE CHIP 47 0HM 5% 1650142500 NETAL GLAZE CHIP 5.6K 0HM 5% 1650142500 NETAL GLAZE CHIP 5.6K 0HM 5% 165014203 NETAL GLAZE CHIP 2.7K 0HM 5% 165014303 NETAL GLAZE CHIP 100 0HM 5% 165011503 NETAL GLAZE CHIP 100 0HM 5% 1650110303 NETAL GLAZE CHIP 100 0HM 5% 100	2	590355802				1-35	228B			
RS-										
650750500   NETAL GLAZE CHIP   75 0HM   5%   1650242509   NETAL GLAZE CHIP   2.4% OHH   5%   1650242509   NETAL GLAZE CHIP   2.0% OHH   5%   1650242509   NETAL GLAZE CHIP   2.4% OHH   5%   1650242509   NETAL GLAZE CHIP   2.4% OHH   5%   1650121509   NETAL GLAZE CHIP   2.4% OHH   5%   1650181507   NETAL GLAZE CHIP   689 OHM   5%   1650181507   NETAL GLAZE CHIP   640 OHM   5%   1650181507   NETAL GLAZE CHIP   47 OHM   5%   1650182500   NETAL GLAZE CHIP   47 OHM   5%   16501870504   NETAL GLAZE CHIP   2.7% OHM   2.7%		24/325 S-		URCE	1-355	:				
Signature   Sign		165075050	META			75	HO		2%	1/100
Signature   CLAZE   CHIP   2.4K OHM   Signature   Si		50	META			47	HO		22,52	1/104
Second   S		50	META			•	HHO		25.	1/8
Secondary   Colored Child		50	META			୍ଦ	OHM		::	1/106
SO		50.0	META			•	OHM		2%	1/8
STORY   METAL GLAZE   CHIP   120 OHM   SX   METAL GLAZE   CHIP   689 OHM   SX   SX   METAL GLAZE   CHIP   689 OHM   SX   SX   SX   METAL GLAZE   CHIP   180 OHM   SX   SX   SX   SX   SX   SX   SX   S		50	META			47	OHM		22	1/106
Solution   Clark   Chip   Ch		20	META			120	OHM		N N	1/104
Solution		20	META			689	E S		25	1/10
\$507 METAL GLAZE CHIP 180 OHN 5%		20	META			689	OH.		22	7.10
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503   METAL GLAZE CHIP   10) OHM   5% 1/1    2500   METAL GLAZE CHIP   2.7K OHM   5% 1/1    3507   METAL GLAZE CHIP   10K OHM   5% 1/1		20	META			339	OHA		25.	20-/-
2500 METAL GLAZE CHIP 2.7K UHM 5% 1/1 3507 METAL GLAZE CHIP 10K OHM 5% 1/1		50	META			-	OHM		22	1/100
3507 METAL GLAZE CHIP 10K OHM 5% 1/1		250	META			۲.	OH H		i,	7.00
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No. LOR PT No. DESCRIPTION	-3559 CONT.D)	3022712005 NPH CHIP 25C2712-0 or 3033120006 NPH CHIP 25C37120 3011162006 PHP CHIP 25A1162-G 3011226006 PHP CHIP 25A1226-3 or	3032712005 NPN CHIP 25C2712-0 3032712005 NPN CHIP 25C2712-0	-D100ES-	3113004008 DETECTOR CHIP MAI	3113001002 DETECTOR DUAL CHIP HAI	3113004008 DETECTOR CHIP	3113003006 DETECTOR DUBL CHIP HAT	3113001002 DETECTOR DUAL CHIP MAIS	3113004008 DETECTOR CHIP MA151	3113004008 DETECTOR CHIP MA15	ETECTOR CHIP	3113001002 DETECTOR DUAL CHIP HAS		TEGRATED CIRCUITS-	1C1 3420002007 CMOS 1C2 3420002007 CMOS 1C2 3420002007 CMOS		SUITCH-	S4 4000537009 PUSH 0-537 "TRIG SOURCE"	19 19 19 19 19 19 19 19 19 19 19 19 19 1				*** 180-324/325 SUFEP T-3560 ***	SISTORS-	1650104589 METAL GLAZE CHIP 100K DHM	1650104509 METAL GLAZE CHIP 100K OHM	1650823501 MEIRL GLRZE CHIP 82K DHM	1650165507 NEINE GENZE CHIP 108 UNN	1650103507 HETAL GLAZE CHIP 10K DHM	1650182509 METAL GLAZE CHIP 1.8K OHM	1650123503 METAL GLAZE CHIP 12K OHM	1650102505 METAL GLAZE CHIP IK OHM	0 1650222505 METAL GLAZE CHIP 2.2K DHM	1650223507 METAL GLAZE CHIP 22K OHM	2 1650471506 MEIAL GLAZE CHIP 470 OHM 2 1650145900 METAL CLAZE CHIP 1 SK OHM	4 1650420508 METAL GLAZE CHIL 1.35 ONE	S 1650273502 METAL GLAZE CHIP 22K OHM	1650331500 METAL GLAZE CHIP	1630470504 METAL GLAZE CHIP 47 0HM	1650331500 NETAL GLAZE CHIP 330 0HM	1650471506 METAL GLAZE CHIP 470 OHM	1650511502 METAL GLAZE CHIP 510 DHM	1650470504 METAL GLAZE CHIP 47 OHM
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CONT.D.   CONT.D.		ROTARY R-543 "A.B  ROTARY R-543 "A.B  T-3561 ***  METAL GLAZE CHIP 5.1K O  METAL GLAZE CHIP 1.5K	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
OF AMP TTL CMOS OP AMP	00 00 00 00 00 00 00 00 00 00 00 00 00	1650470504 NETAL GLAZE CHIP 47 1650123503 METAL GLAZE CHIP 12K 16615013300 METAL GLAZE CHIP 1.5K 16615013300 METAL GLAZE CHIP 1.5K 1650123503 METAL GLAZE CHIP 1.5K 1650470504 METAL GLAZE CHIP 12K 1650470504 METAL GLAZE CHIP 2K 1650151508 METAL GLAZE CHIP 2K	E E E E E E E E E E E E E E E E E E E

1/108 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2

No. LDR PT No.	(T-3561 CONT'D)		08 3011162006						014 3032911001	015 3011226006		-0100ES-	311	D2 3110006004	י מי	05 3113002004	-INTEGRATED CIRCUIT-	101 3310053009		-PC BOARD-	030000000	-MISCHI I BNOIS-	THI 3550025008					*** LB0-324/325 V.	PERSISTENS -	- •	-		R10 1650222505	. م.			R20 1650241509	-	_	-	_	R25 1650102505		R29 1650680505	-	-	166680130	-	R61 1650470504	-
	3	17100	1/84	1/8/1	1/106	17106	17106	1/10%	171014	17108								257	- 0¢	700	× 0.2	20.10	200	204	2004	2006	204	2006	72. 20.	> 0 10	2006	2006	2007	2004	2007	250	>0.5	204	257	25V										
	ir	10	5%	~	2%	2:	52	5%	10 11 11 11 11 11 11 11 11 11 11 11 11 1	in in		1/3W	1738	1/36	1/30	1/3W		28%	20%	70.5	% 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	200	1 8%			1 0%	10%	26%	: : 	102				20%	200		10%	20%	20%		i	25.00	2507				3 or		0
	MHC 70	680	1508	8.2K	<u>~</u>	100	100	4.7	4			HHO	OHM		HO			22uF	100cF	0.01UF	22uF	1001	0.00 PT	0.010F	1000pF	0.01 UF	0.01 LF	0.75pF	22uF	50.0	0.2506	0.010	1000pF	1000pF	2.2uF	22uF	70.10		22uF	22uF		1	1.5-5.5pF	1.5-5.5PF		2503120	2503120	2541226-	25A1226-	2841226-
DESCRIPTION	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	FINE CLAPF CHIP	GLAZE		GLAZE	- GLAZE	GLAZE	GLAZE	GLAZE	SLAZE		CERMET 11				CERNET 200 CERMET 300		ECTROLYTIC.	ELECTROLYTIC	RAMIC CHIP	~			CERAMIC CHIP		ERAMIC	CERAMIC CHIP	OMPOSITION	_		CERHAIC CHIP	CERAMIC	CERAMIC	CERAMIC	ELECTROLYTIC	ELECTROLYTIC	PERCINOLITIC		LECTROLYTIC	ELECTROLYTIC		,	CERAMIC	ERAMIC			NPN CHIP		PNP CHIP	
LDR PT No. DE	1 1	1580183007 HE	. 2	Σ			Σ	2	2	50220501 P		1711005026				1711005127 CE 1711005008 CE	1,00	44220008					2680221008 06					195004007			2680103002				2330074002 E		2344220008 E			2344220008 E		8		2910027016 C	1000	120006				3011226006 P
No.	3561	¥ 0	. =						30 30 30	553	9 1001 000	110 F 12 F 6 5	9	V.P. 3	40.7	V.R.5 0.83 V	20011 1000 J	٠ -				ر د د	20 () 20 ()		5.5			C14						621			4 1 4	(5)	200	. K.		-VARIABL	<b>^</b> C1	462	-9001919N001	- 1844313	05	2.0	94	50

CHIP

TC4053BP

CMOS

1-35618

D-61A

THERMISTOR

MA151K 131588 131588 MA151WK MA151WK

DETECTOR CHIP
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CHIP

25A1226-3 or 4
25A1162-6
25A1162-6
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25A152-6
25A11209-8
25C2911-8
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CHIP CHIP CHIP CHIP

DESCRIPTION

	M8/1	MBZI		M8/1		2	55	555	////	77777	55555	7777777	7;;;;;;										700   1   1   1   1   1   1   1   1   1
	HH0	OHH	A	2	O H																		
	0	0	0		47			2 2 2 4 2 2 2 4 3 2 2 4				· · · · · · · · · · · · · · · · · · ·	2.22 X Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	2.22 2.22 2.22 3.32 5.24 5.26 7.40 7.40 7.40 7.40 7.40 7.40 7.40 7.40	29.92 29.22 20.92 30.94 50.94 74.72 74.72 75.72	29.92 29.22 20.22 20.24	200 200 200 200 200 200 200 200 200 200	2 2 2 2 2 2 2 2 4 2 2 4 2 4 2 4 2 4 2 4	2 2 2 2 2 2 2 2 4 2 2 4 2 2 4 2 2 4 2 2 4 2 2 4 2 2 4 2 2 4 2 2 4 2 2 4 2 2 4 2 2 4 2 2 4 2 2 4 2 2 4 2	2992 4 29 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	74.0.0 74.0.0 74.0.0 74.0.0 74.0 74.0 74	7.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2
7900-	CHIP	CHIP	CHIP		CHIP	CHIP	CHIP CHIP	CHIP CHIP CHIP	CHIP CHIP CHIP	CHIP CHIP CHIP CHIP CHIP CHIP CHIP CHIP	CHIP CHIP												
CH-1	_																						
anc. N1. A	METAL	METAL	METAL	METAL		METAL	METAL	METAL METAL METAL	#ETAL #ETAL #ETAL	METAL METAL METAL METAL	METAL METAL METAL METAL METAL	METAL METAL METAL METAL METAL	######################################	######################################	######################################	######################################	######################################	######################################	######################################	######################################	######################################	######################################	######################################
· ·	60	60	601	101	No.	2		55.5	3 <b>3</b> 5 5 5 5	5055	9 - 5 5 5 5	2002 2005 2005 2005	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00000000000000000000000000000000000000			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
325	0000099	00000	00000099	6604705	02225		02225	02225	02225	50222505 50222505 50102505 50100501	50222505 50222505 50102505 50100501	650222505 650222505 650102505 650100501 650241509	650222505 650222505 650102205 650100501 650241509 653301304	65 02 22 25 05 65 02 22 25 05 65 01 02 20 25 20 50 65 01 02 50 10 65 01 01 50 30 45 65 30 13 04 47 05 04 47 05 04	6502225 6502225 6501025 6501005 6501015 6631015 6504705	02225 02225 01225 01005 01005 01005 04705 01235	650222505 650222505 650102505 650210501 6502101503 650101503 650470504 6501023503 650102504	0.22 0.0 0.22 0.0 0.22 0.0 0.0 0.22 0.0 0.0	502255055505550555055505550555055505550	50225555555555555555555555555555555555	5022255 5022255 50102255 501025 501015 501015 501235 501235 501235 501235 501235 501235 501235 501235 501235 501235	650222505 650222505 650105015 650105015 650101503 650102503 650123503 650162505 650162505 650162505 650162505 650162505	65 02225 05 65 02225 05 65 01 002 05 65 01 01 05 01 65 01 01 50 1 65 01 01 50 1 65 01 025 04 65 06 06 05 65 06 06 05 65 06 05 05
RESISTORS-	1660	1660	166	166	165		165	165(	165(	1650	1651	1650	65 65 65 65 65 65 65 65 65 65 65 65 65 6	650	65.00	60 C C C C C C C C C C C C C C C C C C C	00000000000000000000000000000000000000		6556	655 655 655 655 655 655 655 655 655 655	655 655 655 655 655 655 655 655 655 655	6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	0.000000000000000000000000000000000000
STC																							

•	LDR PT No.	DESCRIPTION	TON				No.	LOR PT No.	DESCRIPTION				
(1-3562	CONT'D)	1 1 1 1 1 1			i    -  -  -  -	 	100	•		!		1	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
-CAPACITOR	10RS-						R135	1650124505	METAL GLAZE		6.8K OHM 120K OHM	- 10 12 13	1/8N
64	6801	CERANIC	CHIP	0.01uF	1 0%	204	•	1650470504				2%	17108
0.0 1.0	2680103002	CERAMIC	CHIP	0.01 0.01	 2	> 20 20 20 20 20 20 20 20 20 20 20 20 20 2	1 1000J-	11004-					
22	2680103002	CERAMIC	CHIP	0.01uF		200	?	0		I.P	0.01uF	701	2010
C24	2680103002	CERAMIC	CHIP	0.01uF	1.0%	504	C1 05	2680103002	CERAMIC CHIP	IP	0.01 uF	20	>00
C31)	2680103002	CERAMIC	CHIP	0.01 UF	707	200	C1 06	2680103002		IP	0.01uF	1 8%	204
C31	2680103002	CERAMIC	CHIP	0.01 F		200	C107	2680103002		d :	0.01uF	20.	204
C.32	2680103002	CERAMIC	d High	- C	N: 0	An a	421.0	2680103002		1	0.01uF	× :	>0 C
553	2005010842	CEKHMIC	A I I		: -	۸۵۲	C131	2680103002	CERAMIC CHIP	<u>.</u>	0.01UF	 	> > >
-TRANSIS	STORS-						C132	2680103002		ы	0.01uF		200
4.	3033098008		•	2803098			C133	2680103002		ΙĒ	5	20	}0:0
Дé	3033098009	NPN CHIP	0	2503098									
7.0	3033120006		•	2SC3120			ξ.	Ġ					
88	3011245000		0 -	25A1245			0104	3033088008	NPN CHIP		2503098		
ው	3033120006		ο .	2503120			0106	3033098009			2803098		
010	3011245000		n <i>'</i>	25A1245			0107	3033126006	NPN CHIP		2503120		
-	3033120006		•	2503120			0108	3011245000			25A1245		
4							50.70	3033120006	NEW CHIE		2503120		
-0100ES-	,000,000,000	0010110	3				3 0	3011243000			2581245 5557155		
5 2	3113003006	DETECTOR	CHIP				- - -	3033150005			2313120		
+ ic	3113003006	DETECTOR	0	MA 157			-0100E3						
?			!				0103			DUAL CHIP	MA157		
-INTEGR	ATED CIRCUIT-						D104	3113000000	DETECTOR CH	CHIP	MAISIA		
101	IC1 3220051004	OP ANP		TL 071 CP			0105	3113003006	DETECTOR DUA	DUAL CHIP	HA157		
-PC BOAF	: BOARD-			1-35698			-INTEGR	-INTEGRATED CIRCUIT-	4 A		17 971 CP		
	200000			•			<u>:</u>				•		
							-PC BOARD-	IRD- 5903562025			1-35628		
*** LBI)	/325	W. IN. SUB CH-2	-2 1-3562	* * *									
-RESISTORS-	ORS-			,,,,,									
R101	6000000991		# 5 6			38.		H 3027 702-00 1 +++	2010	T-7862			
R 103	1660000000		5 5			7.87	-SWITCH						
R109	1660470501	METAL GL	GLAZE CHIP		2%	1.84	810	4000535014	PUSH	0-535A	"HOR DISP"		
R110	1650222505		CHI	v	25	1/104							
R116	1650222505		H H	2.2K 0HM	ا ما	1/106	-PC BOARD						
R117	1650222505		E E	2.2K OHM	200	301/1		5903563018			1-3563A		
200	1630102363			Z 2	ř	301/1							
60.00	16500100301		5 5	ء د	2 10	MG 1/1							
0.01	1650101503		3	100 OHM	. 25	7.108							
R122	1663301304		CHI	3.3K 0HM	~	1.84	*** [8]	*** LB0-324/325 [	INTEN	T-3564	***		
R123	1650470504		CHI		33	17108	-RESISTORS-						
R124	1650123503		CHI		55%	17100	2	1665101308		CHIP	5.1K OHM	7.	1/8
R125	1650102505		CHI	TK OHM	33	17100	R2	1650561507		CHIP	560 OHM	22.5	1 / 1 0W
R127	1650470504		CHI	47 OHM	2%	1.71014	R3	1665100306	METAL GLAZE	CHIP	510 OHM	~	M8/1
R128	1650680505		CHI		22	1.71014	Α 4	1650332502		CHIP	3.3K DHM	25	1.7101
R129	1650680505		CHI		2%	17100		1661003304		CHIP	100K OHM	~	18/1
R130	1650470504		H.	47 OHM	is N	17.100	. K6	1650822509		CHIP	8.2K OHM	2%	101/1
R131	503315		CHI	_	NS.	17.190	R7	1661003304				<u>»:</u>	7.80

	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1			1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
CONT 'D)	METAL SLAZE	d I H	A OK OHM		101/1	(T-3565	CONT'D)					
650224509	METAL GLAZE	CHIP	205	30	10.17	-001LS-						
1665601308		CHIP			1/8/1		3930338034	COIL		0.33uH	20%	
9020062991		CHIP			1/8	7	3930338034	COIL		0.33uH	20%	
650103507		CHIP			1/106	-						
660472505		CHIP	4.7K OHM		1/8/	-PC BUARD-	RD- 5303555031			, n		
RESISTORS-							Na C 00 00 00 00			90905-1		
1913001503	CARBON FILM	S S	OHM 20%		FOCUS.	-MISCEL	-MISCELLANOUS-	10000	9			
1711005017	CERMET			1/38			000000000000000000000000000000000000000	מען פספע		NO.1339		
2342470009	ELECTROLYTIC		47 uF	20%	- 0							
470009	ELECTRU		47uF	20%	<b>204</b>	*** (BI)		H.POS	T-3572 ***	* *		
021009	PLASTIC		6800pF	2%	1004	-VARIAB	-VARIABLE RESISTOR-					
651009	PLASTIC F		6800pF	2%	1004		1911002219	METAL GLAZE	20K OHM	20%	1/264	"R POS"
270603	CERAMIC	a.	27pF	1 0%	204							
103002	CERAMIC	۵	0.01 UF	1 0%	204	-PC BOARD-	-08					
103002	CERANIC	۵.	0.01uF	10%	>05		5903572019			7-75730		
2680103002	CERAMIC CHIP	. م	0.01 LF	10%	204					E3 / C5		
1000	9110		0.0000									
212003			2502712-0	5 6		-		101141				
3032712003			2564162-0	- > - > - 0			*** LBO-324/323 KD	NOT HIDE	*** 5/05	# #		
				5		VRI	1918001211	CARBON FILM	20K OHH	20%	1/200	"TRACE RO
										:		
3004008	DETECTOR	CHIP	MAISIK			-TRANSISTORS-	STORS-					
0024021	ZENER		RD5.1MB2	12 5.14		ē	3031815018	XPX		2SC1815-Y		
3113004008	DETECTOR	CHIP	MAISTK			95	3011015012	PNP		23A1015-Y		
0063000	(ED		TLG164				á					
						-PC BURKU-	1KU- 5902577011			A5737-T		
5903564010			T-3564A	,								
						*** (Bi)	/325	BLANK	T-3590 ***	*		
*** LBD-324/325 C	CRT SOCKET	1-3565	:			-RESISTORS-	ังหร-					
						~ :	1650104509	METAL GLAZE	CHIP		32	1/105
1020104005	CARBON				727	2 :	1010223006	CARBON FILM			S.	4/4
1000151000	CARBON FILM		HO 9 CL	, i	30/-	ž (	165022505		a i		33	7.106
0001510	CHKBON					* 6	1650222001		1 2		× :	90171
0						2	100708100		7117		~ :	ARXI.
KES1310K-	20010 10101	3000	AND MADE	747		2 2	1930103001	MEINL GLAZE	1 2		ř	30
*02200	וובו או פראכב		2			× 0	102210221		1 2	7. CHO 75.	יי ני	
						2 02	1650104509		1 1		יני מי	
2020102000	CERAMIC		1000pF		2004	2.5	1650104509		CHIP		, ic	17.0
2020102000	CERAMIC		100001		2004	2	1650104509		CHIP		'n	100
2020102000	CFRAMIC		100001		2004	. 0	1650223507		OH I		ř	
	)						1650102505	METAL GLAZE			; •	
						· ·					•	

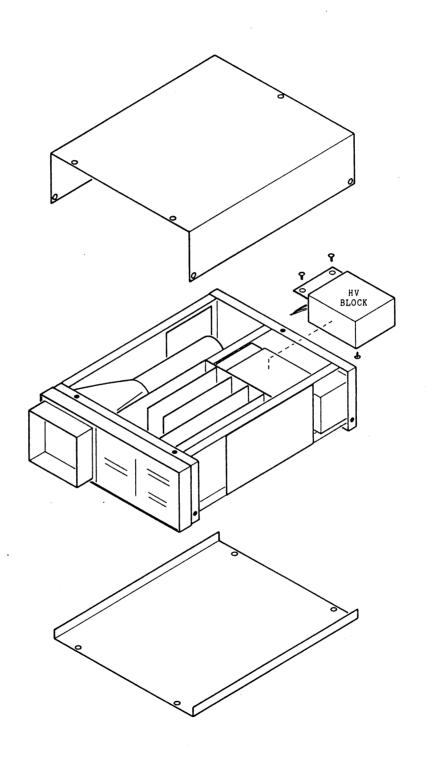
	10010101010								
VR1	VR1 1918001211	CARBON	FILM	20K (	HHO	20%	1/201	"TRACE ROTATIOH"	T10H
-TRA	-TRANSISTORS-								
=	3031815018	X X X			28.	2SC1815-Y	<b>&gt;</b> -		
05	3011015012	d N d			286	28A1015-Y	<b>&gt;</b> -		
-P.C.	BOARD-								
	5903573011				7	T-3573A			
**	*** LBIJ-324/325 BI	BLANK		1-3590	*				
-RES1									
2	1650104509	METAL (	GLAZE	CHIP	100K	DHM	Ñ	1/106	
<b>R</b> 2	1010223006	CARBON	FILM		22K	OHH	ij	34/1	
R.3	1650222505	METAL (	GLAZE	CHIP	2.2K	OHM	ŝ	1/108	
<b>₹</b>	1650222505	METAL (	GLAZE	CHIP	2.2K	CHN	'n	1/106	
RS	1661802304		GLAZE	CHIP	18K	OHM	==		
R6	1650103507	_	GLAZE	CHIP	- 8	OHM	ŝ	_	
22	1650122501	METAL (	GLAZE	CHIP	1.2K	HO	5%		
R8	1650103507		GLAZE	CHIP	- 0K	OHM	ŝ	_	
R9	1650104509		GLAZE	CHIP	1 0 0 K	OHM	ŝ	_	
Rio	1650104509	METAL (	GLAZE	CHIP	100K	OHM	ŝ	1/100	
==	1650104509		GLAZE	CHIP	1 0 0 K	DHM.	ŝ	1/100	
212	1650223507		GLAZE	CHIP	22K	OHM	ŝ	_	
R13	1650102505	METAL (	GLAZE	CHIP	ž	OHM	'n	1/100	
R14	1661601304	METAL	GLAZE	CHIP	1.6K	OHM	=		
R15	1650470504	METAL	GLAZE	CHIP	47	HHO.	52	17100	
816	1651101304	METAL (	GLAZE	CHIP	<del>.</del> . <del>.</del> . <del>.</del> .		=	m8/1 · ;	
7									

	1/6kg	17.10W 17.10W				25∨	3KV 500V	3 X X X X X	2 ×	3K.	2000	) ) ) ) ()	250	634	> > * * * * * m																					
	22	58 88	1.731	300	<b>,</b>	20%					,	20 -	2 6%	70.	X 0 -		و د د د	6	· ~	Ì	3 K 4				36∀					ì						
	1	3.9 3.9 3.9 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	3	OHM 20%	Ē	47 uF	47 û û p.F 1 û 0 û p.F	4708pF 4700pF	4700pF	4700pF	4700pF	0.010F	22uF	0.1 LF	4700PF	2505681	2841162-0 2862712-0	29A1162-0	25A1091-6	i	ED-314	18883	15585	18883	R036EB	MA151K	181588 MA15188	;		J-529		T-35918				
CRIP	FILM	METAL GLAZE CHIP		CERMET 10K	_	ELECTROLYTIC	CERAMIC Ceramic	CERAMIC	CERAMIC	CERANIC	CERAMIC States from	CERAMIC CHIP	ELECTROLYTIC	PLASTIC FILM	CERAMIC	HPH	PNP CHIP	PNP CHIP	d X		RECTIFIER HV	DETECTOR	DETECTOR	DETECTOR		DETECTOR CHIP	DETECTOR CHIP			TRANSFORMER						
PT	CONT'D) 1312204017 1312204017		RESISTORS-	1711004079			C2 2090013000 C3 2020102000										3011162015	3011162015	3011091009	,	3110051009	0059005	5005500	0059005	6009900	3004008	0006004 3004008		,	3800529005	100	5903591022				
	(T-3591 R20 · R21	R23 R23 4	-VARIABLE	. (X 6)		C1	88	ა ი 4 ი	93	C2	88	6.10		C12	2.2	-TRANSIS	02 03	7 6	98	-0100E3-	5 6 6	<u> </u>	2 C	200	20	80	600	,	-TRANSFORMER	-	-PI BOGBO-					
			18.8 ( + - 1	-																		-								-						
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	1/108	500	> > > 0 0 0 0		164																	1000	1104	- 7	1/64	1/100	1/2m	1/10%	1/100	1/106	3 4/-	1/100	1/10M	1/20	3 0	
	5% 1/10W 5% 1/10W	10% 504	> 0 0 0 0 0	10% 50°C	. 2.																	•	_	-			-	-	2	2	2	_	_	10% 1/2	•	_
	2K OHM 5% 1	1 0%	0.14F 50V	20.0	20%		.25A1245 25C2712-G	2SC3120		MA1518A	43 - 10 - 47 - 1	13-10-11 	66881	00001 27 H 2 C 1	HH ISTR	TC74HC04P TC74HC26P	TC74HC02P	00000	90666		* *	**************************************	OHM 5%	ະຄ	0HM 5%	0HM 5%	OHM 5%	OHM 5% 1/1	OHM 5% 1/1	DHM 5% 1/1	2 22	OHM 5% 1	0HM 5% 1	7.0	OHM 5%	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	0HM 5% 0	P 0,01uF 10%		0.010F 10%	22uF 20%		·25A1245 2SC2712-G	2SC3120		CHIP	CHIP		66881			TC74HC04P TC74HC26P	TC74HC02P	00000	90600-			**************************************	OHM 5%	47K DHM 5%	330K OHM 52	CHIP 56K OHM 5%	700 MHO MO - 41HJ	CHIP 220K DHM 5K 1/1	CHIP 1K OHM 5% 1/1	CHIP 100 0HM 5% 1/1	22M OHM 5% 1/	CHIP 47K OHM 5%	CHIP 4.7K OHM 5%	5.6M OHM 10X	MHO WOO OTHO	CHIP 20% OHR 2%
DESCRIPTION	2.2K OHM 5% 1	CHIP 0,014F 10X		CHIP 0.01uF 10X	22uF 20%		PNP CHIP .2SA1245 NPN CHIP .2SC2712-G	CHIP		CHIP	DUAL CHIP	מסאר נחוד			r L	CMOS TC74HC04P CMOS TC74HC26P		00000	90679-		VOLTAGE T-3591 *	100 CC CC CC	2.2 OHM 52.2	47K OHM 5%	330K OHM 52	GLAZE CHIP 56K OHM 5%	700 MHO MO - 41HJ	CHIP 220K DHM 5K 1/1	CHIP 1K OHM 5% 1/1	CHIP 100 0HM 5% 1/1	OHM 5%	CHIP 47K OHM 5%	GLAZE CHIP 4.7K OHM 5% 1	FILM 5.6M OHM 10X	GLAZE CUTO 100 OUM 5%	CHIP 20% OHR 2%
o. 0E	GLAZE CHIP 2.2K OHM 5% 1 GLAZE CHIP 2.2K OHM 5% 1	CERAMIC CHIP 0.01 uF 10%	7 J. C.	CERAMIC CHIP 0.010F 10%	ELECTROLYTIC 22uF 20%		CHIP CHIP	NPN CHIP		113001002 DETECTOR DUAL CHIP	113001002 DETECTOR DUAL CHIP	110070003 SCHOTTKY	110070003 SCHOTTKY	4116	113004008 DEIECIOR CHIP		CMOS	•	-		4/325 HI VOLTAGE T-3591 *	WHO C C	CHIP 100 DHM 5% 1	CARBON FILM CAIR 47K OHM 5K	CARBON FILM 330K OHM 5%	METAL GLAZE CHIP 56K OHM 5%	700 MHO MO - 41HJ	METAL CLAZE CHIP 220K DHM 5% 1/1	CHIP 1K OHM 5% 1/1	METAL GLAZE CHIP 100 0HM 5% 1/1	22M OHM 5% 1/	METAL GLAZE CHIP 47K OHM 5% 1	METAL GLAZE CHIP 4.7K OHM 5%	METAL FILM 5.6M OHM 10%	90008006 METAL GLAZE 10M OHM 5% 1	GLAZE CHIP ING ORM 3% I

No. LOR PT No.	DESCRIPTION						LDR PT No.	DESCRIPTION			1
(1-3591 CONT'D)	1 1 1 1 1 1 1 1 1	1 1 1 1 1				(T-3555	CONT'D)				
-MISCELLANDUS- VI 4360027002 V2 4360027002 V3 4360027002	NEON BULB NEON BULB NEON BULB	111	NE - 388 NE - 388 NE - 388			-CAPACITORS- C91 268 C93 268 C101 268 C110 268 C110 268	TORS- 2680103002 2680103002 2680103002 2680103002 2681220608	CERANIC CHIP CERANIC CHIP CERANIC CHIP CERANIC CHIP CERANIC CHIP	0.00 0.01 0.01 0.01 0.01 0.01 0.01 0.01	 000000 288888	00000000000000000000000000000000000000
••• LB)-324/325 -FJ BOMPD- 5903641012	JUMPER	1-3641 *	* * * T - 3641A			-VARIABL V02 V04	LE CAPACITORS- 2910018006 2910018006	CERAMIC	2.8-10pF	25 UV 25 UV	
*** LB)-324 -RE:1:1085- R197 165000002 R198 165000002 P199 165000002 R200 165000002	Y. PRE AMP	CHIP CHIP CHIP CHIP	MHO 0 0 WHO 0 0 WHO 0			*** LBD-325 -TRANSISTORS- 45 3033 06 3033	600000 600000	V.FINAL AMP NPN CHIP NPN CHIP	T-3556 *** 28C3600-D,E,F 28C3600-D,E,F	-0,E,F	
*** LB:)-324	V.FINAL AMP	T-3556 *	*			*** LB0-325 -RESISTORS- R13	20269009	CARBON FILM	T-3564 ***	88	3071
-RESISTOR- R32 1000470006	CARBON FILM		47 OHM	22	1/6W	R14	1020569009 LE RESISTOR-	CARBON FILM	۰		1/50
-CAPACITOR- C14 2120180008	в міся		18pF	1 0%	5000	VR3 191	1913001219	CARBON FILM	20K OHM 20%	1/208 "	"וררטא"
-TRANSISTORS- 05 3032911001	Z 2 0 Z 2		2802911-8 2802911-8			60.1 60.2 60.2	3011162015	PNP CHIP	25A1162-0 25B435-Y	-0 or 4	
97	: :					-HISCELLANOUS 4350 4350 4360	LANDUS- 4350035003 4350035003 4350035003	LAMP LAMP PP	T-3.16/T31504 T-3.16/T31504 T-3.16/T31504	31504 31504 31504	
-++ LBJ-325 -MISCELLANOUS- 7600116000	NAIN FRANE ***		V-116								
*** LB0-325	V.PRE AMP T-33  METAL GLAZE CH	22 4 4 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	* * * * * * * * * * * * * * * * * * *	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	33333333					•	

## 9. CABINET REMOVAL

- Take seven screws off to remove the Top cover.
- Take four screws off to remove the Bottom cover.



-69-LBO-324/325

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