

Z E T R O N

Model 27 Receiver Monitor Panel
Technical Manual

#025-9186D

EXPERTS IN MISSION-CRITICAL COMMUNICATION SYSTEMS



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Model 27 Receiver Monitor Panel
Technical Manual

#025-9186D

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TABLE OF CONTENTS

| | |
|--|----|
| Operation | 1 |
| "Call" LED | 1 |
| "Mute" button and LED | 1 |
| Speaker volume | 1 |
| Specifications | 1 |
| Installation | 2 |
| Power | 2 |
| Audio signals | 2 |
| Busy/mute signals | 3 |
| Input level adjustments | 3 |
| Mute level adjustments | 4 |
| Minimum volume level adjustments | 4 |
| Labeling | 4 |
| Service diagrams | 5 |
| Model 27 receiver monitor panel parts list (901-9233B) | 5 |
| Model 27 receiver monitor parts list (702-9372E) | 6 |
| Model 27 receiver monitor panel schematic (008-9372E) | 9 |
| Model 27 receiver monitor panel silkscreen (702-9372E) | 13 |

WARRANTY

Zetron, Inc. warrants that all equipment sold pursuant to any resultant agreement shall be free from defects in material or workmanship at the time of delivery. Such warranty shall extend from the time of delivery for One Year. Buyer must provide written notice to Zetron within this prescribed warranty period of any defect; if the defect is not the result of improper usage, service, maintenance, or installation and equipment has not been otherwise damaged or modified after delivery, Zetron shall either replace or repair the defective part or parts of equipment or replace the equipment or refund the purchase price at Zetron's option after return of such equipment by buyer to Zetron. Shipment to Zetron's facility shall be borne on account of buyer.

1. Consequential Damages: Zetron shall not be liable for any incidental or consequential damages incurred as a result of any defect in any equipment sold hereunder and Zetron's liability is specifically limited to obligation described herein to repair or replace a defective part or parts covered by this warranty.

2. Exclusive Warranty: The warranty set forth herein is the only warranty, oral or written made by Zetron and is in lieu of and replaces all other warranties, expressed or implied, including the warranty of merchantability and the warranty of fitness for particular purpose.

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MODEL 27 RECEIVER MONITOR PANEL

OPERATION

The Model 27 Receiver Monitor Panel contains two identical and independent audio circuits: one on the left and one on the right. Each circuit features four receiver audio inputs, each with its own "Call" LED, "Mute" LED, and "Mute" button. In addition, each circuit has a knob to adjust the overall volume of the circuit's speaker.

"Call" LED

When audio traffic is present on a receiver, its "Call" LED will blink.

The "Call" LED will illuminate steady if the receiver is being muted externally. Normally external muting is performed if the receiver is on the same frequency as a transmitter that is being operated within acoustic range of the Monitor Panel. External muting prevents audio feedback.

"Mute" Button and LED

Pressing the receiver's button will mute the receiver's audio. This is indicated by the illumination of the "Mute" LED. Pressing the button again will unmute the audio causing the "Mute" LED to extinguish.

Speaker Volume

The knob under the speaker is the master volume control for the four receivers associated with the speaker. Turning the knob clockwise will increase the volume level. Turning the knob counter-clockwise will decrease the volume level. Turning the knob fully counter-clockwise may not completely turn off the volume (depending on adjustments made at installation).

SPECIFICATIONS

| | |
|------------------|---|
| Power | 11 to 16 Volts DC. 0.3 A typ standby, 2.0 A max (full output). |
| Size | 5.25" high, 19.00" wide, 1.50" deep |
| Weight | 5 lb. |
| Configuration | Two independent audio circuits each with four mutable audio inputs summed to feed a single speaker with volume control. |
| Busy/Mute Inputs | Each audio input has an associated Busy/Mute Input which when shorted to ground mutes the audio input. |

MODEL 27 RECEIVER MONITOR PANEL

Audio Inputs

Impedance: 10,000 ohms or 600 ohms balanced (60 dB), DC blocking.
Level For Full Output: -30 to +10 dBm adjustable (unmuted).
Mute Level: 0 to 40 dB adjustable level reduction compared to unmute.
Frequency Response: 150 to 12K Hz

Speaker Outputs (at 13.8 VDC power, 1 kHz tone)

0.2 % typ. distortion at 2 Watts output.
10 % maximum distortion at 5 Watts output.

INSTALLATION

The Model 27 Receiver Monitor Panel is designed to be installed in 19" EIA compatible rack furniture. The rear cover of the Monitor Panel gives clear indications of signal names and locations.

Power

The removable screw terminal block, J1, located near the center of the rear cover is used to route power to the Panel. 11 to 16 Volts DC should be used. The positive lead should connect to pin 5 or 6 of J1. The negative lead (which is also connected to chassis) should connect to pin 7 or 8 of J1. When the Panel is used in conjunction with other Series 4000 products, it may share the power from those products. Keep in mind that if full output power is desired the Monitor Panel may draw as much as 2.0 Amperes.

Audio Signals

Both circuits, labeled "Left" and "Right", have four receiver audio channels, labeled "A", "B", "C" and "D". These correspond to the Buttons and LEDs on the front of the Panel as follows: top="A", next down="B", next down="C" and bottom="D".

Each receiver audio input is transformer coupled with a DC blocking capacitor in series. The impedance of the audio input is 600 ohms as set at the factory. The impedance may be altered to 10K ohms by changing jumpers located on the circuit board to the "B" position.

Audio signal pairs are connected to the panel using removable screw terminal blocks, J1, J2 and J3 as follows:

| Channel | Block | Pins | Impedance Jumper |
|---------|-------|---------|------------------|
| Right-A | J1 | 3 & 4 | JP1 |
| Right-B | J2 | 3 & 4 | JP2 |
| Right-C | J2 | 7 & 8 | JP3 |
| Right-D | J2 | 11 & 12 | JP4 |
| Left -A | J1 | 11 & 12 | JP5 |
| Left -B | J3 | 3 & 4 | JP6 |
| Left -C | J3 | 7 & 8 | JP7 |
| Left -D | J3 | 11 & 12 | JP8 |

MODEL 27 RECEIVER MONITOR PANEL

Busy/Mute Signals

Each receiver audio input has an associated Busy/Mute input which when shorted to ground will completely mute the audio input and steadily illuminate the receiver's "Call" LED. This is most often used if the associated receiver is monitoring the same frequency as a transmitter that is operated from a location within acoustic range of the Monitor Panel. The Busy/Mute input is usually derived from the PTT signal of such a transmitter.

Busy/Mute signal pairs (labeled "X-Busy" on the rear cover) are connected to the panel using removable screw terminal blocks, J1, J2 and J3 as follows:

| Channel | Block | Pins |
|---------|-------|--------|
| Right-A | J1 | 1 & 2 |
| Right-B | J2 | 1 & 2 |
| Right-C | J2 | 5 & 6 |
| Right-D | J2 | 9 & 10 |
| Left -A | J1 | 9 & 10 |
| Left -B | J3 | 1 & 2 |
| Left -C | J3 | 5 & 6 |
| Left -D | J3 | 9 & 10 |

Input Level Adjustments

Each receiver audio input has two adjustments; the "Input Level" and the "Mute Level".

The "Input Level" adjustment is a four-turn trim potentiometer located within the cut-out area of the rear cover. Turning this pot clockwise will decrease the attenuation of the input signal. When turned fully clockwise a -30 dBm level (25 mVrms) will be capable of producing the full 5-Watt rating on the associated speaker.

Recommended Procedure: Turn the "Input Level" adjustment fully counter-clockwise (no more than four turns or until clicking is heard). Place a signal of typical level across the associated audio input pair while observing the associated "Call" LED. Turn the "Input Level" adjustment clockwise until the "Call" LED begins to blink. Turn the adjustment one additional turn clockwise to ensure proper dynamic range of the "Call" LED.

Once each of the four inputs have been adjusted it may be desirable to compare the listening level of each and readjust the "Input Level" to bring all inputs to a comparable listening level.

MODEL 27 RECEIVER MONITOR PANEL

Mute Level Adjustments

The "Mute Level" adjustment is a single turn potentiometer located next to the associated "Input Level" pot. Turning this pot clockwise will decrease the attenuation of the mute level. This adjustment sets the mute level relative to the "Input Level" adjustment (i.e. the absolute mute level is affected by the "Input Level" adjustment).

In order to adjust the "Mute Level" the associated mute function must be activated by pressing the "Mute" Button such that the "Mute" LED turns on. The "Mute Level" may then be adjusted to the desired listening level. If full mute is desired the adjustment should be turned fully counter-clockwise.

Minimum Volume Level Adjustments

Each speaker has a "Minimum Volume Level" adjustment. This allows the setting of the lowest volume achievable when the master knob on the front panel is turned fully counter-clockwise. When this single turn trim potentiometer is turned fully counter-clockwise the minimum volume level is zero (no sound). Turn the trim pot clockwise in order to increase the minimum volume level above zero.

LABELING

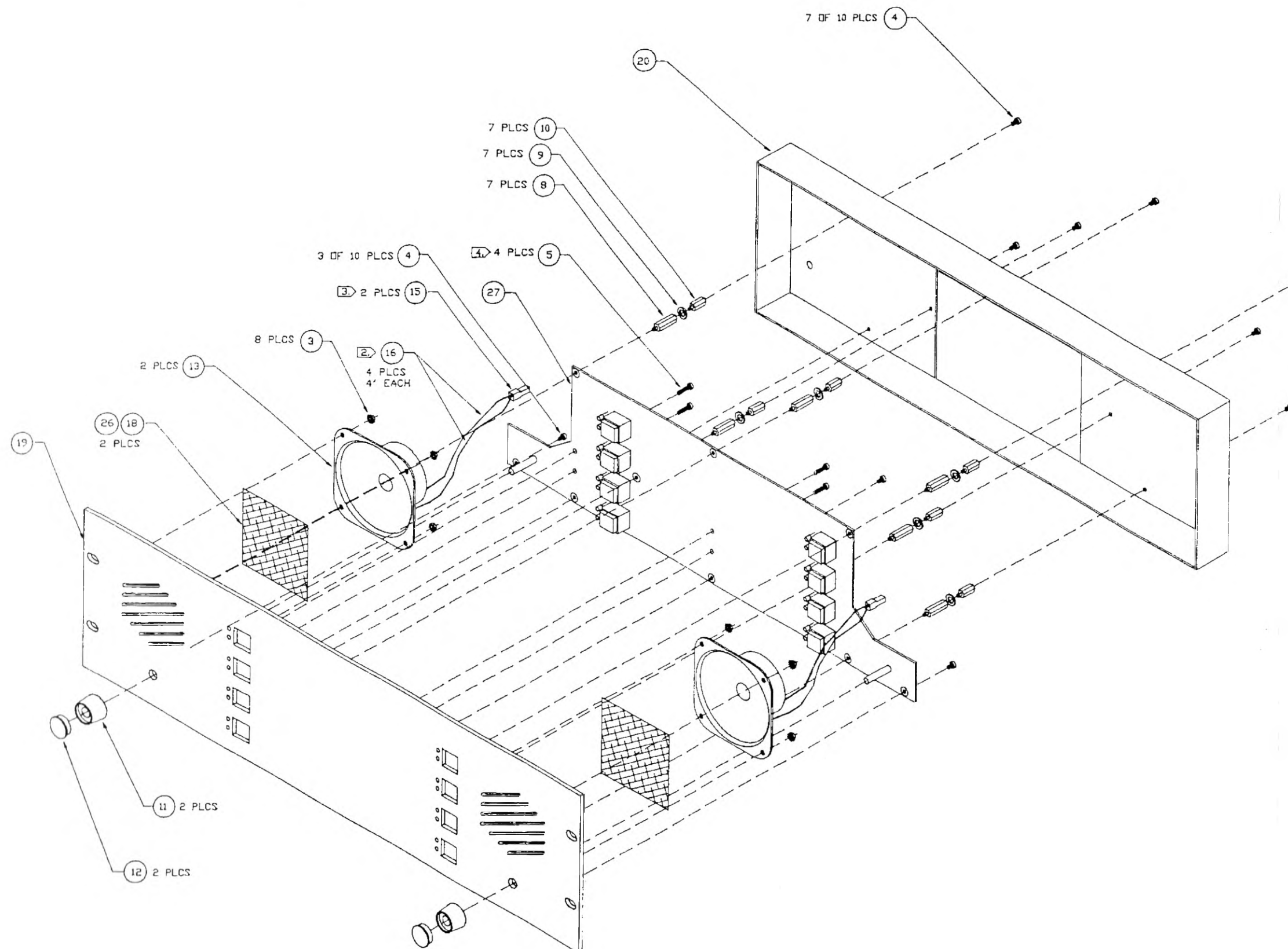
The "Mute" Buttons feature removable transparent covers. It is suggested that labels be inserted under the covers which identify the name of the associated receiver.

| REVISIONS | | | | |
|-----------|-------------|-------|----------|------|
| REV | DESCRIPTION | DRAWN | APPROVED | DATE |
| A | RELEASE | AH | | |
| A1 | HCN 1617 | ME | | |
| B | HCN 1831A | AH | KW | 9-92 |

NOTES:

1. TEST AND CALIBRATE ACCORDING TO PROCEDURE 020-0127.
2. CUT WIRE, ITEM 16, INTO FOUR 4' PIECES. SOLDER 2 TO EACH SPEAKER, ITEM 13, (ONE PER TAB). CRIMP THE OTHER ENDS TO IDC CONNECTOR, ITEM 15.
3. INSTALL IDC CONNECTOR, ITEM 15, INTO JP9 AND JP10 OF BOARD, ITEM 27.
4. SECURE U19, U20, U28, U29 TO BOARD ITEM 27, AND FRONT PANEL, ITEM 19, WITH SCREWS, ITEM 5.
5. PLACE ITEMS IN PLASTIC BAG, ITEM 23.
6. PLACE ITEMS IN PLASTIC BAG, ITEM 24.
7. PLACE UNIT IN BAG, ITEM 25.
8. PLACE LABEL, ITEM 17, ON BACK OF UNIT.

| | | | |
|--|------|------------|---------------------------|
| 27 | 1 | 702-9372 | M27 REC. MON. BOARD |
| 26 | A/R | 561-0003 | ADHESIVE |
| 25 | 1 | 449-9052 | BAG, PLAS. 10X8X24 1.5 GA |
| 24 | 1 | 449-9042 | BAG, PLASTIC 2X3 .004 GA |
| 23 | 1 | 449-9019 | BAG, PLASTIC 5X7 .004 GA |
| 22 | 1 | 449-9016 | BOX, CDD W/FDAM ENDS |
| 21 | 1 | 416-1202 | FUSE AGC 2A |
| 20 | 1 | 415-9584-1 | M27 DL MN PN REAR COV |
| 19 | 1 | 415-9582-1 | M27 REC MN FRONT PANE |
| 18 | 2 | 415-9193 | M20 TBLTOP SPEAKER GR |
| 17 | 1 | 415-9003 | DECAL, TI-5100 PN/SN/DET |
| 16 | 16' | 408-2201 | 22 GA. WIRE, WHITE |
| 15 | 2 | 401-0175 | 2 COND IDC, 26 GA X .1 |
| 14 | 3 | 401-0016 | 12 POS BLOCK FEMALE |
| 13 | 2 | 305-0021 | SPEAKER 4 OHM 5W |
| 12 | 2 | 265-0013 | CAP FOR 265-0012 |
| 11 | 2 | 265-0012 | KNOB W/ INDICATOR BLK |
| 10 | 7 | 251-1239 | 440X.031 NYLON |
| 9 | 7 | 250-0105 | 440X3/8 W/STUD |
| 8 | 7 | 250-0103 | 440X3/4 W/STUD |
| 7 | 4 | 236-0004 | WASHER, NYLON #10 BLACK |
| 6 | 4 | 220-0250 | 1032X3/4 FLT HL PHIL B.A |
| 5 | 4 | 220-0108 | 440X1/4 PAN PHILLIPS |
| 4 | 10 | 220-0107 | 440X3/16 PAN PHILLIPS |
| 3 | 8 | 210-0001 | 440 KEPT NUT PLATED |
| 2 | 1 | 108-0000 | ALIGNMENT TOOL |
| 1 | 1 | 025-9186 | M27 REC. MON. PAN. MANUAL |
| ITEM | QTY. | PART # | DESCRIPTION |
| DRAWN | AH | 7/29/91 | |
| CHECKED | | | |
| APPROVED | | | |
| ZETRON | | | TITLE |
| ZETRON, INC. 10000 15TH COURT N.E. REDDING, VA 22459 | | | MODEL 27 |
| | | | RECEIVER MONITOR |
| | | | PANEL |
| | | | REV B |
| | | | 901-9233 |
| | | | NO NET SCALE DRAWING |



MODEL 27 RECEIVER MONITOR PANEL

Model 27 Receiver Monitor Parts List (702-9372E)

LEGEND:

= NOT INSTALLED

^ = INSTALLED ON HIGHER ASSY

+ = OPTION (INSTALLED PER CUSTOMER ORDER)

| ITEM | QTY | COMPONENT REFERENCE | PART NO. | DESCRIPTION | MANUFACTURE P/N |
|------|-----|---|----------|---------------------------------|-----------------|
| 1 | 6 | R4,R42 R123,R130,R168, R176 | 101-0010 | 1 OHM 1/4W 5% CARBON FILM | 1/4-5% |
| 2 | 4 | R120,R128,R132,R175 | 101-0013 | 2.2 OHM 1/4W 5% CARBON FILM | |
| 3 | 14 | R18,R40,R57,R81,R96,R115, R127,R129,R131,R140,R160, R170,R171,R172 | 101-0057 | 220 OHM 1/4W 5% CARBON FILM | |
| 4 | 2 | R179,R180 | 101-0061 | 330 OHM 1/4W 5% CARBON FILM | |
| 5 | 8 | R6,R23,R24,R64,R65,R70, R103,R104 | 101-0068 | 620 OHM 1/4W 5% CARBON FILM | |
| 6 | 18 | R10,R12,R32,R34,R46,R48, R73,R75,R87,R89,R107, R109,R125,R133,R152,R154, R174,R178 | 101-0073 | 1K 1/4W 5% CARBON FILM | |
| 7 | 8 | R22,R44,R61,R85,R100, R119,R144,R164 | 101-0085 | 3.3K 1/4W 5% CARBON FILM | |
| 8 | 52 | R1#,R2,R3#,R5,R7,R8,R9, R11,R13,R14,R16,R21,R25#, R26,R27,R28,R29,R30,R31#, R33,R35,R36,R37,R45,R47, R49,R50,R55,R60,R68,R69, R74,R76,R77,R78,R86,R88, R90,R91,R94,R99,R108, R110,R111,R112,R134,R135, R136,R138,R143,R153,R155, R156,R158,R165,R177 | 101-0097 | 10K 1/4W 5% CARBON FILM | |
| 9 | 1 | R149 | 101-0105 | 22K 1/4W 5% CARBON FILM | |
| 10 | 1 | R148 | 101-0121 | 100K 1/4W 5% CARBON FILM | |
| 11 | 8 | R19,R41,R58,R82,R97,R116, R141,R161 | 101-0125 | 150K 1/4W 5% CARBON FILM | |
| 12 | 10 | R15,R17#,R38,R39#,R54, R56#,R79,R80#,R93,R95#, R113,R114#,R122,R137, R139#,R157,R159#,R167 | 101-0145 | 1M 1/4W 5% CARBON FILM | |
| 13 | 2 | R173,R126 | 107-0002 | 10K ROTARY POT | RK1631110-10 KB |
| 14 | 2 | R169,R121 | 107-0202 | 2K POT 1 TURN | 3386P-1-202 |
| 15 | 8 | R53,R63,R67,R72,R102, R106,R147,R151 | 107-0502 | 50K POT 1 TURN | 3386P-1-503 |
| 16 | 2 | R166,R124 | 107-0504 | 200K POT 1 TURN | 3386P-1-204 |
| 17 | 8 | R52,R62,R66,R71,R101, R105,R146,R150 | 108-0103 | 10K POT 4 TURN | 1102P-1-103K |
| 18 | 8 | C4,C15,C17,C23,C26,C42, C48,C55 | 150-0096 | 1000 PF 1KV +-20% CERAMIC DISC | GE-102G |
| 19 | 1 | C56 | 150-0110 | .01 UF 50V 80%-20% CERAMIC DISC | DF-103Z |

MODEL 27 RECEIVER MONITOR PANEL

Model 27 Receiver Monitor Parts List (702-9372E) cont'd

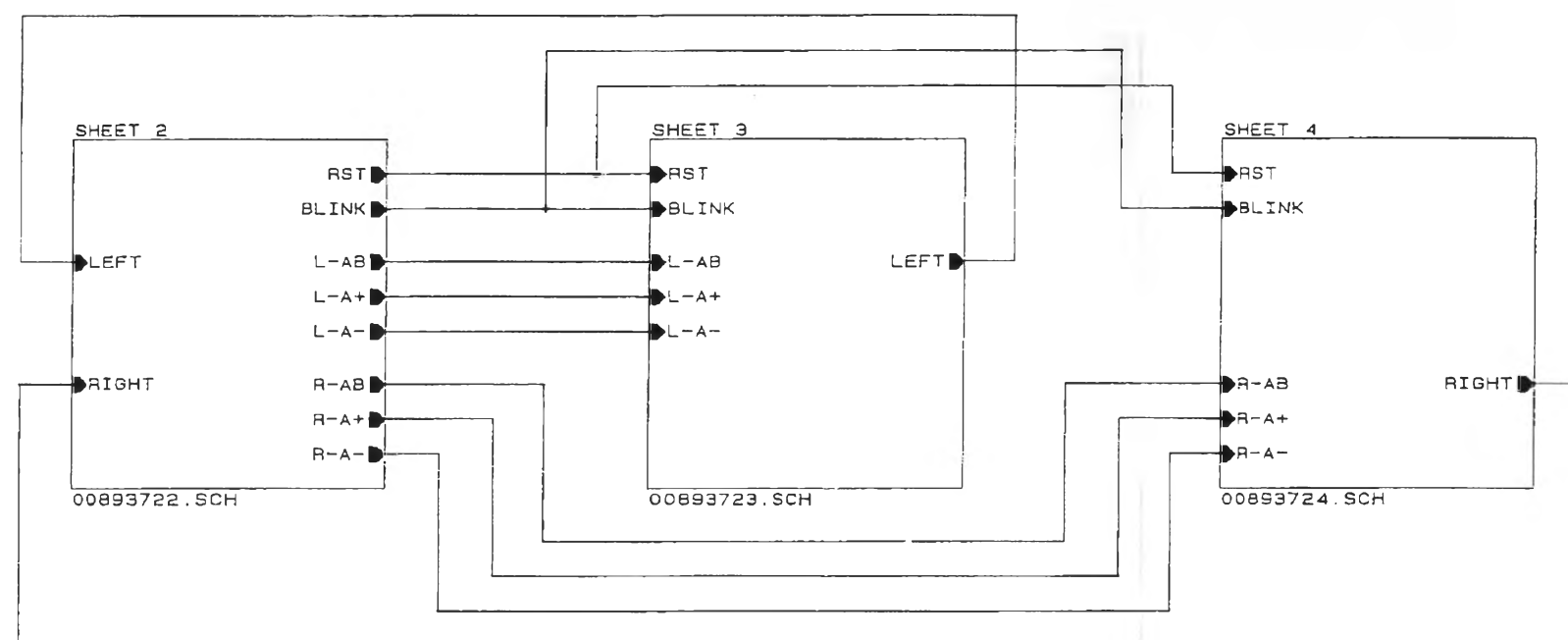
| ITEM | QTY | COMPONENT REFERENCE | PART NO. | DESCRIPTION | MANUFACTURE P/N |
|------|-----|--|----------|--|-----------------|
| 20 | 8 | C1,C12,C16,C22,C24,C25, C30,C47 | 151-0180 | .1 UF 50V +-10% CERAMIC, UNSTABLE | AVXSR205E104MAA |
| 21 | 4 | C34,C35,C49,C52 | 151-0181 | .1 UF .1SPACE 50V CERAMIC TEMP. STABLE | CW20C104K |
| 22 | 2 | C58,C59 | 151-0199 | .47 UF 50V +-5% POLYESTER | ECQVIH474JZ |
| 23 | 8 | C5,C6,C10,C11,C18,C19, C20,C21 | 152-0030 | 2.2 UF 250V +-10% POLYESTER | ECQ-E2225KS |
| 24 | 2 | C53,C37 | 152-0085 | .01 UF 50V +- 5% POLYESTER | ECQ-V1H103JZ |
| 25 | 11 | C2,C3,C9,C13,C14,C36,C40, C41,C45,C46,C54 | 154-0025 | 1 UF 35V TANTALUM | ECS-F-35E1 |
| 26 | 4 | C27,C31,C33,C38 | 154-0100 | 10 UF 16V TANTALUM | ECS-FICE106K |
| 27 | 4 | C8,C43,C44,C57 | 155-0052 | 10 UF 35V +-20% RADIAL ALUMINUM ELECTROLYTIC | ECEA1VU100 |
| 28 | 3 | C7,C28,C51 | 155-0077 | 100UF 25V +-20% RADIAL ALUMINUM ELECTROLYTIC | ECEA1EU101 |
| 29 | 4 | C29,C32,C39,C50 | 155-0083 | 470 UF 10 VOLT RADIAL ALUMINUM ELECTROLYTIC | ECEA-1AU471 |
| 30 | 8 | T1,T2,T3,T4,T5,T6,T7,T8 | 305-0103 | 10K:10K OHM AUDIO | MR671-1459 |
| 31 | 16 | DS1,DS2,DS3,DS4,DS5,DS6, DS7,DS8,DS9,DS10,DS11, DS12,DS13,DS14,DS15,DS16 | 311-0022 | LED RED, T-1 | LTL-4221 |
| 32 | 2 | VR1,VR2 | 316-0005 | REGULATOR 5V LOW POWER | LM78L05 |
| 33 | 4 | U19,U20,U28,U29 | 316-2003 | 8W AUDIO AMP HORIZ MOUNT | TDA2002H |
| 34 | 8 | U2,U6,U8,U12,U14,U18,U22, U27 | 316-3403 | QUAD OP AMP | MC3403P |
| 35 | 4 | U1,U5,U13,U17 | 323-4013 | DUAL D-PF | MC14013B |
| 36 | 8 | U3,U4,U9,U10,U15,U16,U23, U25 | 323-4053 | 3PDT SWITCH | MC144053 |
| 37 | 5 | U7,U11,U21,U24,U26 | 323-4093 | QUAD NAND SCHMITT | MC14093B |
| 38 | 8 | Q1,Q3,Q5,Q7,Q10,Q12,Q14, Q16 | 340-3904 | NPN 40V/200MA | 2N3904 |
| 39 | 8 | Q2,Q4,Q6,Q8,Q9,Q11,Q13, Q15 | 340-3906 | PNP 40V/200MA | 2N3906 |
| 40 | 10 | CR1,CR2,CR3,CR5,CR6,CR7, CR8,CR9,CR10,CR11 | 342-3009 | SILICON .50 SP | 1N4148 |
| 41 | 1 | CR4 | 343-3108 | 1W 15V +-5% .50 SP | 1N4744A |
| 42 | 8 | SW1,SW2,SW3,SW4,SW5,SW6, SW7,SW8 | 371-0003 | SINGLE KEY-NO LIGHT | JM2005#01 |
| 43 | 3 | J1,J2,J3 | 401-0015 | 12 POS BLOCK MALE | 1103.6 |
| 44 | 0 | P1# | 401-0079 | 6 PIN TELCO PERP | 520258-3 |
| 45 | 2 | JP10,JP9 | 403-0002 | 2 OF 401-0052 | |
| 46 | 8 | JP1,JP2,JP3,JP4,JP5,JP6, JP7,JP8 | 403-0003 | 3 OF 401-0052 | |
| 47 | 1 | F1 | 416-6025 | FUSE AGC 2.5ASB-LITTLEFUSE | MDL 2.5ASB |
| 48 | 16 | XDS1,XDS2,XDS3,XDS4, XDS5,XDS6,XDS7,XDS8, XDS9,XDS10,XDS11,XDS12, XDS13,XDS14,XDS15,XDS16 | 251-3125 | 440x5/16 SPACER | |

MODEL 27 RECEIVER MONITOR PANEL

Model 27 Receiver Monitor Parts List (702-9372E) cont'd

| ITEM | QTY | COMPONENT REFERENCE | PART NO. | DESCRIPTION | MANUFACTURE P/N |
|------|-----|--|-----------|---------------------------------|-----------------|
| 49 | 8 | XJP1,XJP2,XJP3,XJP4, XJP5,XJP6,XJP7,XJP8 (POS A) | 402-3040 | MINI JUMPER | |
| 50 | 17 | XU1,XU2,XU5,XU6,XU7,XU8, XU11,XU12,XU13,XU14,XU17, XU18,XU21,XU22,XU24,XU26, XU27 | 407-0014 | SKT, 14 PIN DIP | |
| 51 | 8 | XU3,XU4,XU9,XU10,XU15, XU16,XU23,XU25 | 407-0016 | SKT, 16 PIN DIP | |
| 52 | 2 | J6-J7,J17-J18 | 408-0001 | WIRE JUMPER | |
| 53 | 1 | PCB | 410-9372C | PCB, DUAL MONITOR SPEAKER BOARD | |
| 54 | 2 | XF1 | 416-3040 | FUSE CLIPS | |

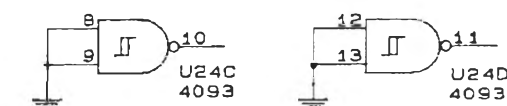
| REV | DESCRIPTION | DR | APRO | DATE |
|-----|-------------|----|------|------|
| A | RELEASE | KN | | |
| B | HCN 1604 | KN | | |
| C | HCN 1695A | DW | | |
| D | HCN 1790 | KM | | |
| E | HCN 1840 | DW | | |



NOTES: UNLESS OTHERWISE SPECIFIED.

1. ALL CAPACITORS ARE IN MICROFARADS.
2. ALL RESISTORS ARE IN OHMS, 1/4W, 5%.
3. ALL POTENTIOMETERS ARE 1 TURN.

UNUSED PARTS:



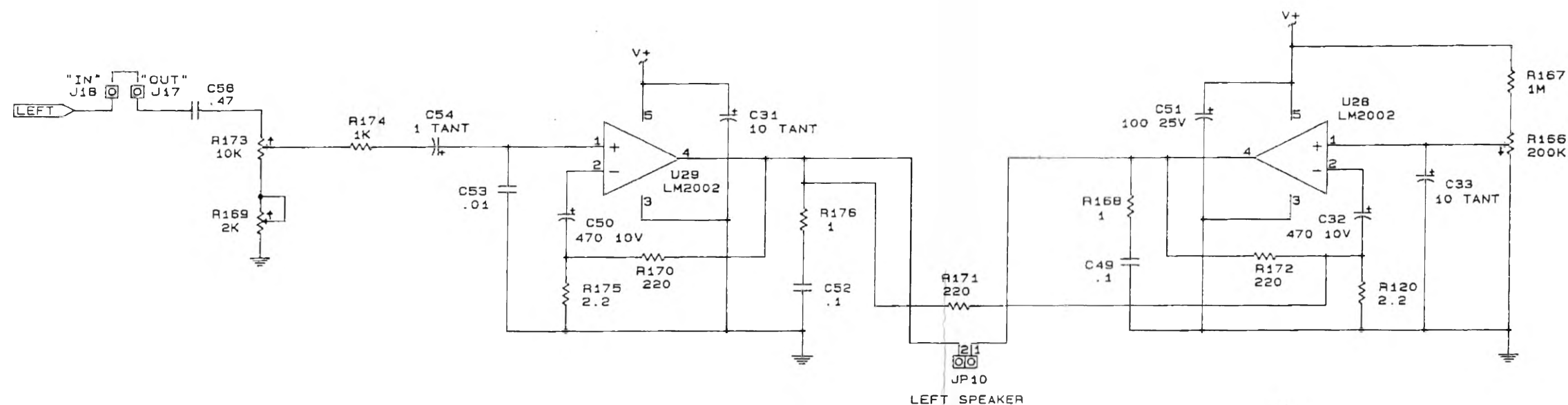
LEGEND:

- + OPTION. INSTALL PER CUSTOMER ORDER.
- INSTALLED ON HIGHER ASSEMBLY.
- # NOT INSTALLED.
- X- CUT TRACE.
- JUMPER WIRE.

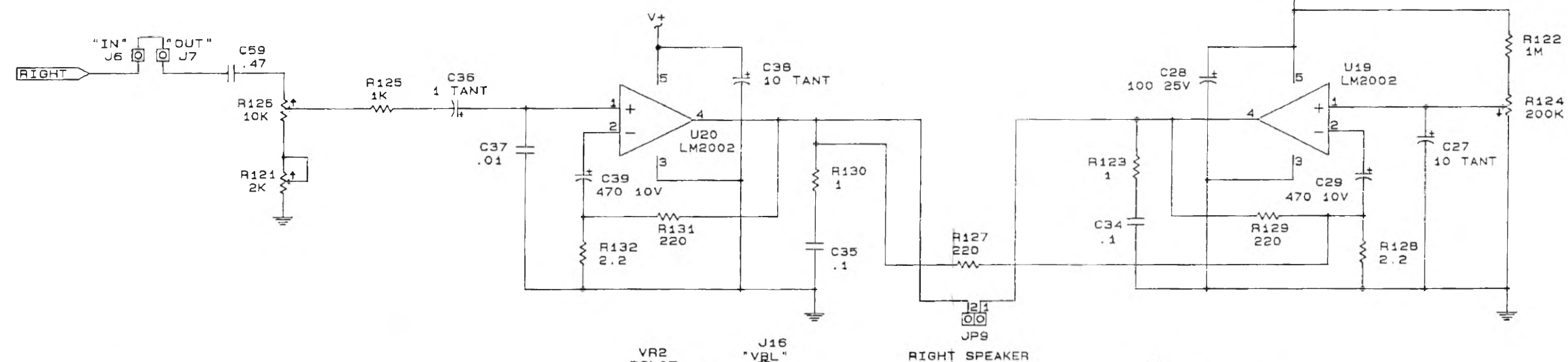
ZETRON, INC.
12335 134TH COURT N.E.
REDMOND, WASHINGTON, 98052-2433

Title
MODEL 27 RECEIVER MONITOR PANEL

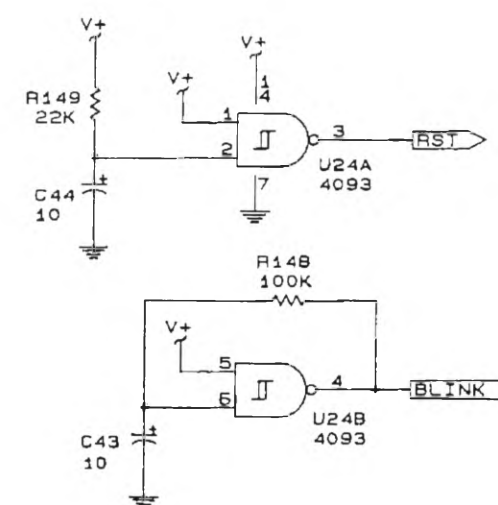
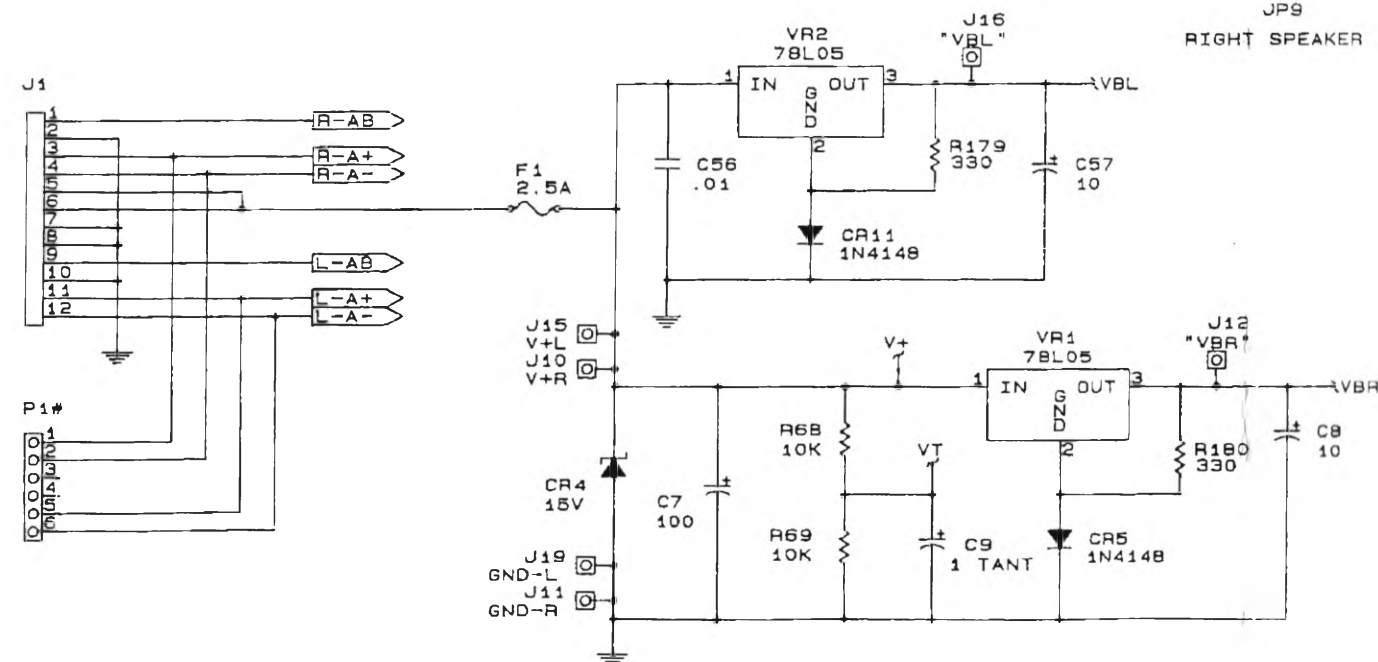
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| B | 008-9372 | E |
| Date | April 7, 1992 | Sheet 1 of 4 |



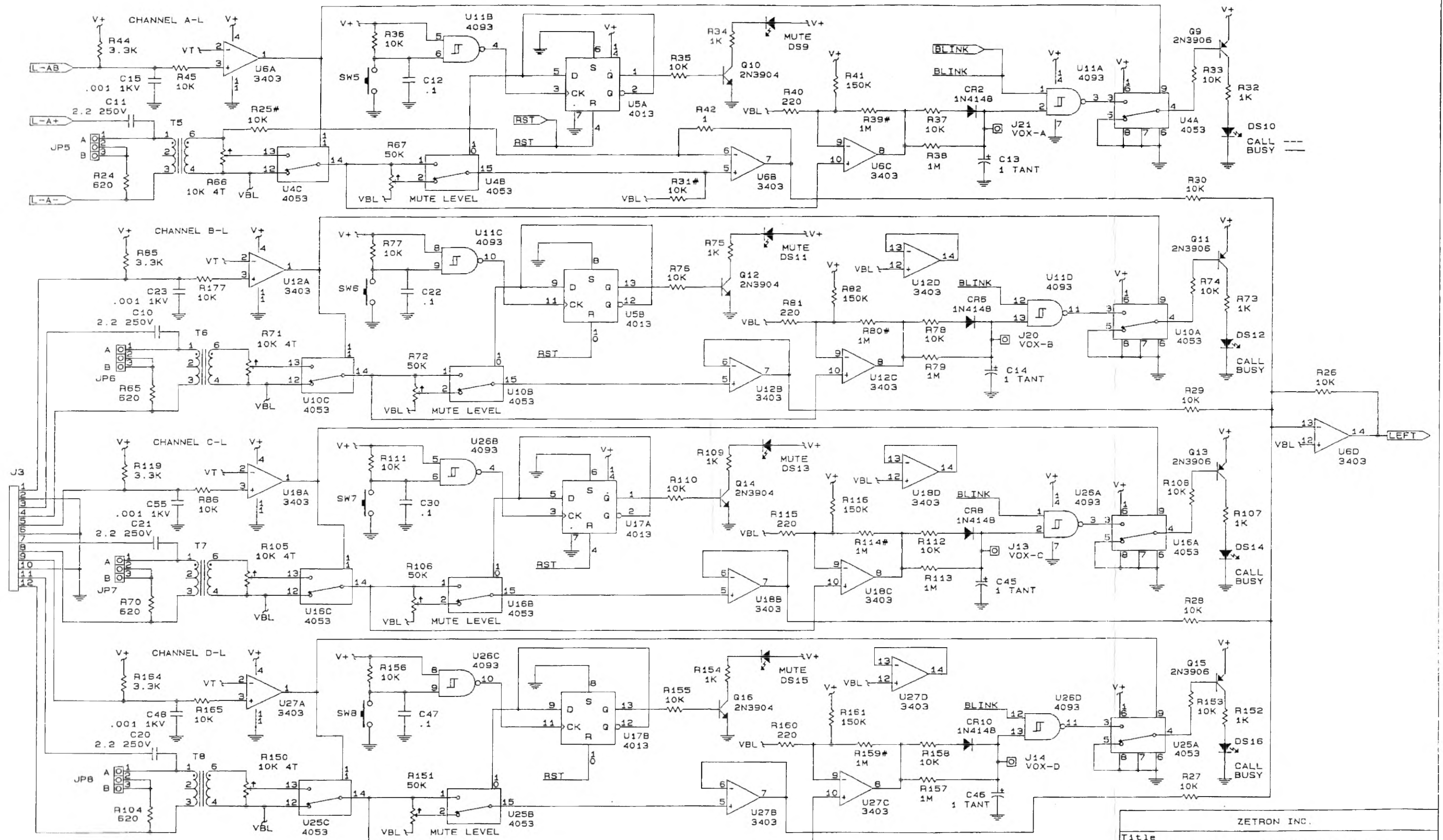
LEFT SPEAKER



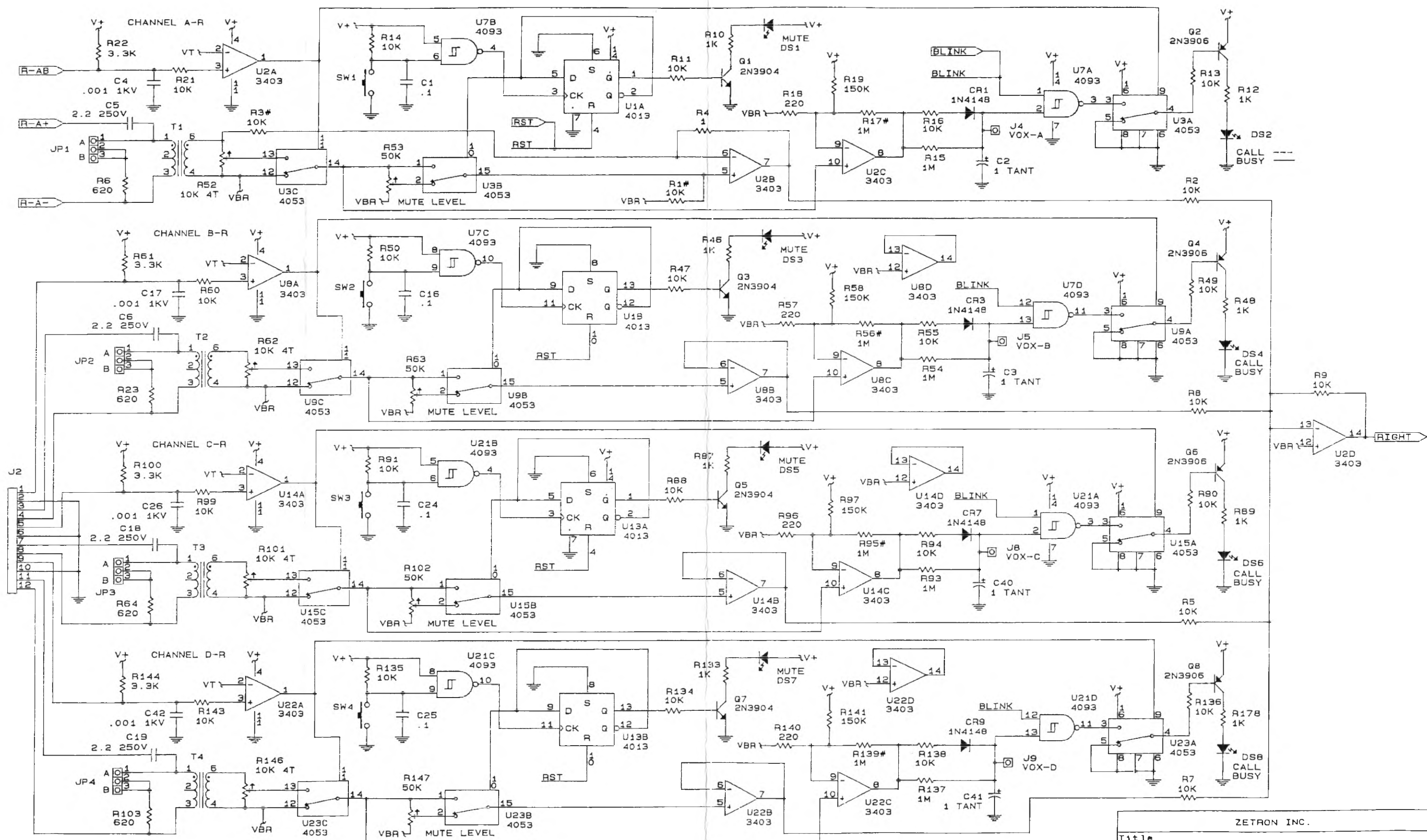
RIGHT SPEAKER



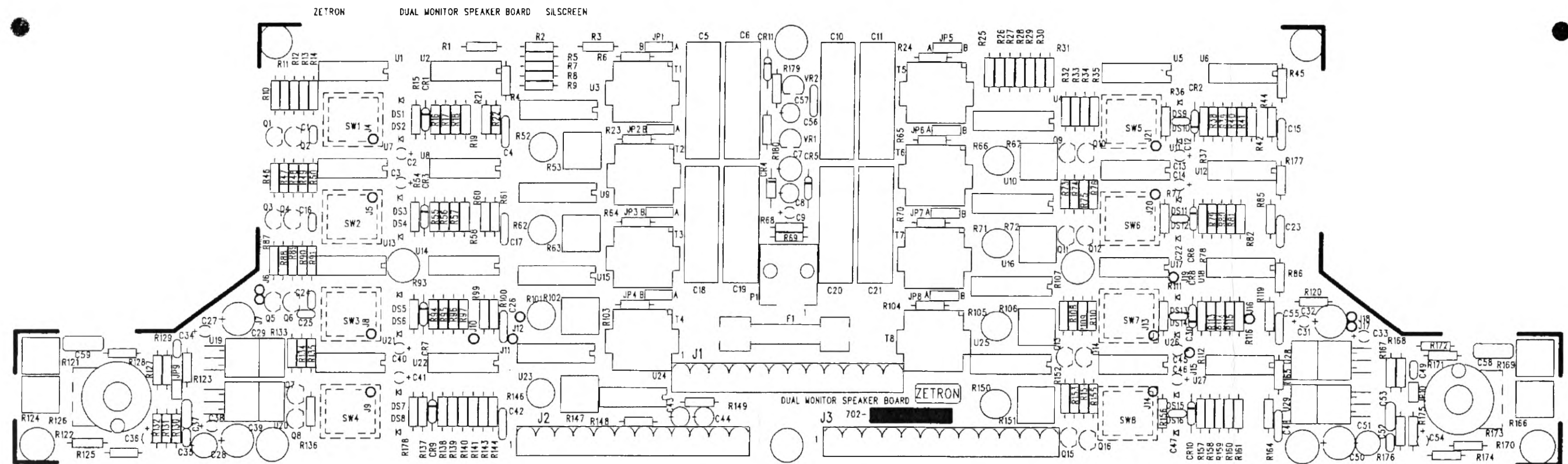
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| Title | MODEL 27 RECEIVER MONITOR PANEL | |
| Size | Document Number | REV |
| B | 008-9372 | E |
| Date: | September 15, 1992 | Sheet 2 of 4 |



| | | |
|---------------------------------|--------------------|--------------|
| ZETRON INC. | | |
| Title | | |
| MODEL 27 RECEIVER MONITOR PANEL | | |
| Size | Document Number | REV |
| B | 008-9372 | E |
| Date: | September 15, 1992 | Sheet 3 of 4 |

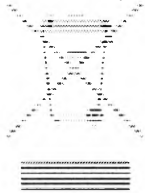


| | | |
|-------------|---------------------------------|--------------|
| ZETRON INC. | | |
| Title | MODEL 27 RECEIVER MONITOR PANEL | |
| Size | Document Number | REV |
| B | 008-9372 | E |
| Date: | September 15, 1992 | Sheet 4 of 4 |

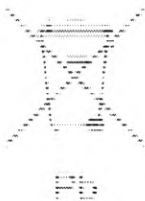


Battery Disposal Instructions

Information on Disposal of Old Electrical and Electronic Equipment and Batteries (applicable for EU countries that have adopted separate waste collection systems)



Products and batteries with the symbol (crossed-out wheeled bin) cannot be disposed as household waste. Old electrical and electronic equipment and batteries should be recycled at a facility capable of handling these items and their waste byproducts.



Contact your local authority for details in locating a recycle facility nearest to you.

Proper recycling and waste disposal will help conserve resources whilst preventing detrimental effects on our health and the environment.

Notice: The sign "Pb" below the symbol for batteries indicates that this battery contains lead.

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