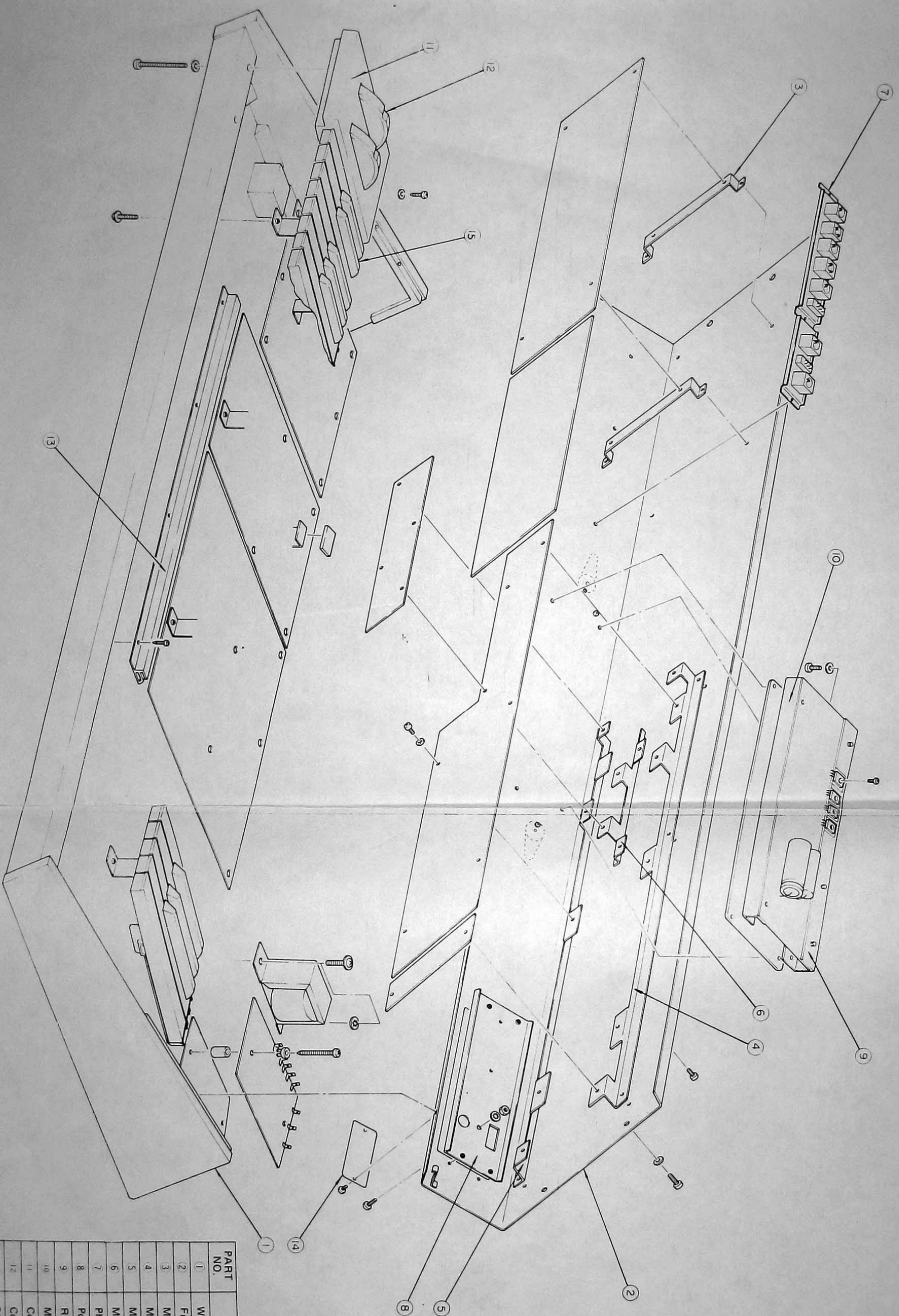


1. SPECIFICATIONS

*KOR6
Polysis*

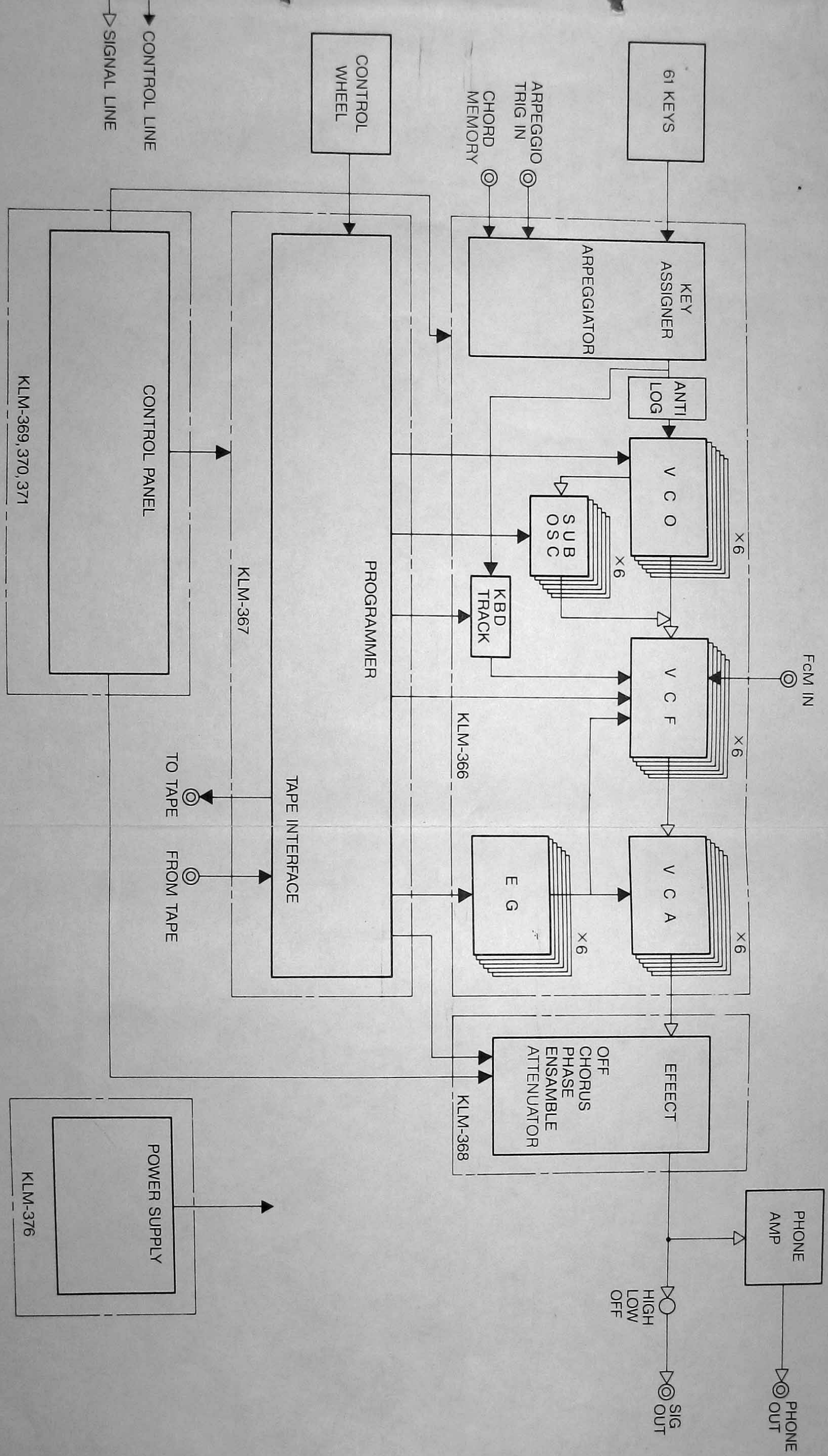
- KEYBOARD 61 keys (C ~ C)
- VOICES: 6
(Program and edit functions are possible for items marked *)
- VCO *
 - Octave Selector (16', 8', 4')
 - Waveform (N, PW, PWW)
 - Pulse Width/PWM Sensitivity Adjustment
 - PWM Speed
 - Off
 - 1 oct Down
 - 2 oct Down
- SUBOSCILLATOR *
 - Cutoff Frequency Adjustment
 - Resonance Adjustment
 - Envelope Generator Modulation
 - Sensitivity Adjustment
 - Keyboard Tracking Adjustment (0 ~ 150%)
 - Attack Time
 - Decay Time
 - Sustain Level
 - Release Time
 - Mode Switch (EG, \square)
 - Attenuator (-10dB ~ +10dB, 11 Steps)
- ENVELOPE GENERATOR *
 - Frequency
 - Delay Time
 - Level
- VCA *
 - Modulation (VCO, VCF, VCA)
 - Mode (Off, Chorus, Phase, Ensemble)
 - Speed/Sensitivity Adjustment
 - Poly
- MODULATION GENERATOR *
 - Unison
 - Chord Memory
 - Hold
 - Speed
 - (0.4Hz ~ 40Hz)
 - Range (Full, 2 oct, 1 oct)
 - Mode (Up, Down Up/Down)
 - Latch (On/Off)
 - Arpeggio (On/Off)
 - ± 50 Cents
 - Sensitivity Adjustment (MAX ± 1300 Cents)
 - Level Selector (Off, Low, High)
 - Volume
- PROGRAMMER
 - Bank (A, B, C, D)
 - Program (1 ~ 8)
 - Write (Enable, Disable)
 - Switch (Enable, Disable)
 - To Tape
 - From Tape
 - Verify
 - Error/Cancel
- TAPE INTERFACE
 - Tape Indicator x 2 (Found, Loading)
 - Bend
 - MG
- CONTROL WHEEL x 2
 - From Tape (With High/Low Switch)
 - Chord Memory (\square)
 - Arpeggio Trigger In (\square)
 - VCF TGM In (-5V ~ +5V)
 - To Tape (With High/Low Switch)
 - Headphone
- INPUT JACKS
 - Output
- OUTPUT JACKS
 - 980 (W) x 373 (D) x 132 (W) mm
 - 11.5 kg
- DIMENSIONS
 - Connection Cord
 - Plug Adaptor (Phone-To-Mini)
 - Memory Cassette
- WEIGHT
 - Voltage (Local Voltage 50/60 Hz)
 - Wattage (25 W)
- ACCESSORIES INCLUDED
 - POWER CONSUMPTION Wattage (25 W)

2. STRUCTURAL DIAGRAM

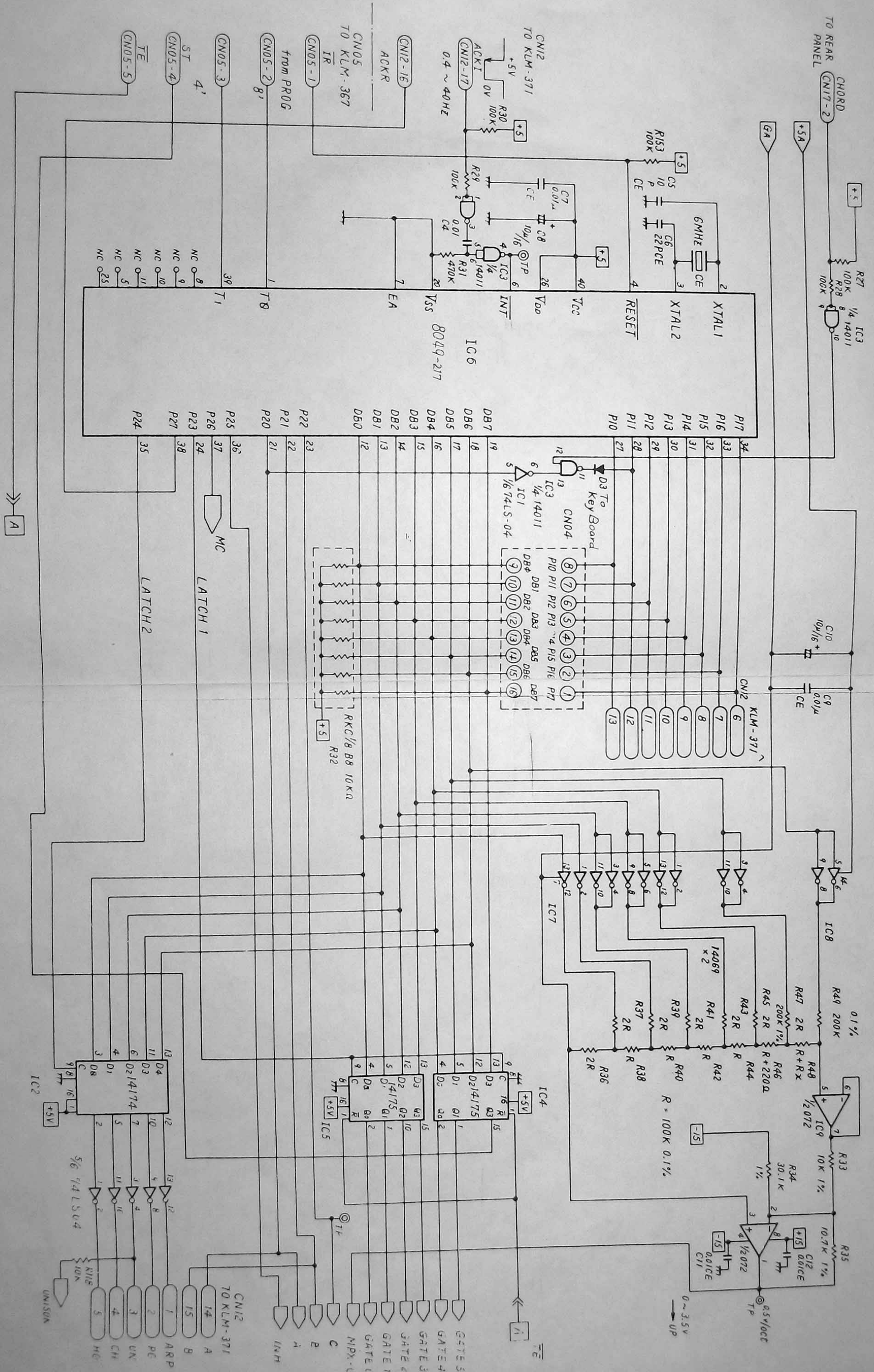


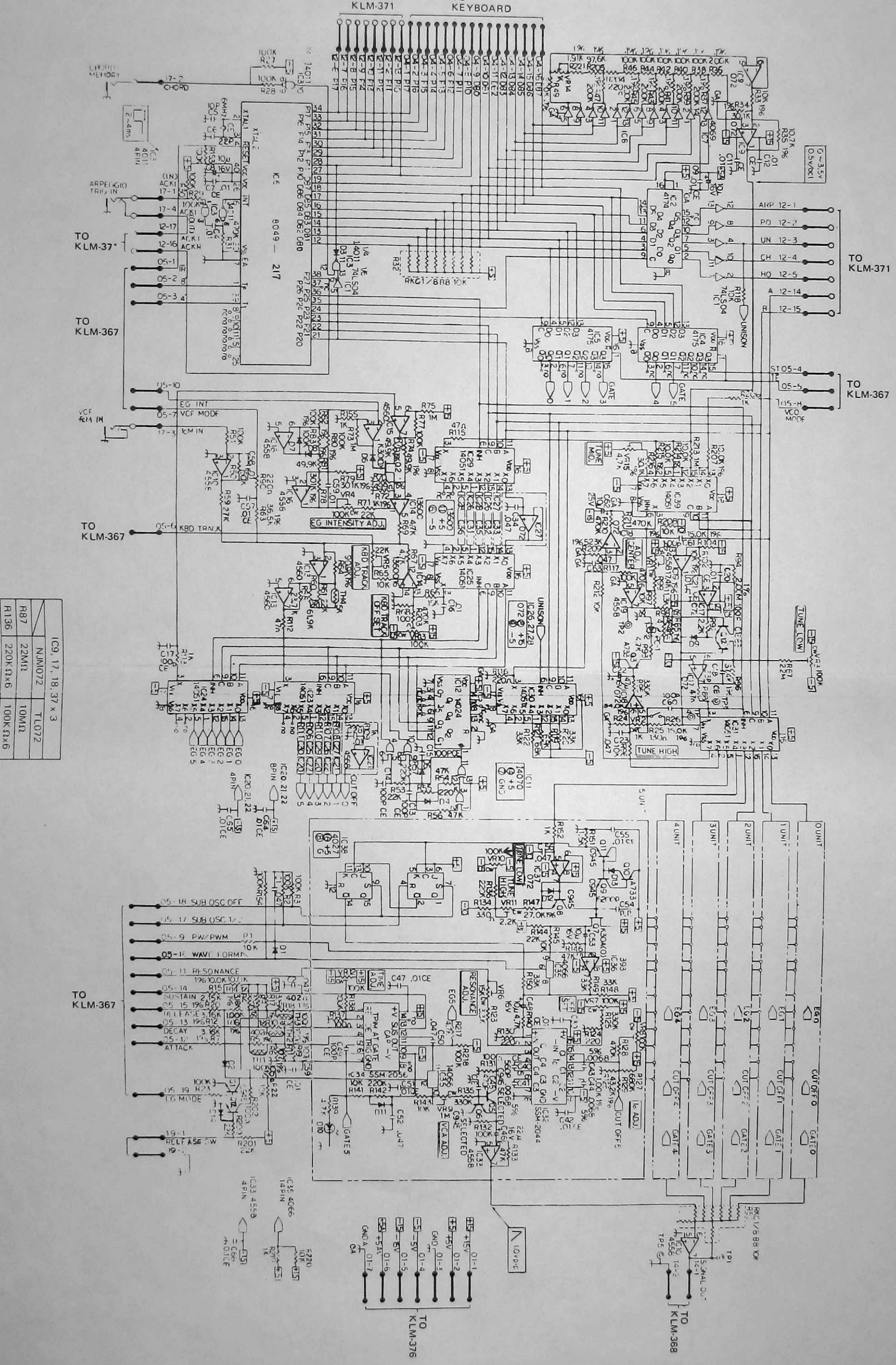
PART NO.	PART NAME	REMARKS
1	Wooden case	KOC-D10005
2	Front panel	KOC-C20111
3	Metal fitting of KLM-369	KOC-C40399
4	Metal fitting of KLM-371	KOC-C30179 2
5	Metal fitting of KLM-371	KOC-C30179 1
6	Metal fitting of KLM-371	KOC-C30179
7	Phone jack plate	KOC-C30178
8	Power plate	KOC-C40397
9	Radiation board	KOC-C40406
10	Metal fitting of KLM-376	KOC-C40405
11	Control panel	KOC-E20028
12	Control wheel	KOC-E40091
13	PCB rail	
14	Model number plate	KOC-C40144
15	Key board	ESK-701 (61 Keys)

3. BLOCK DIAGRAM

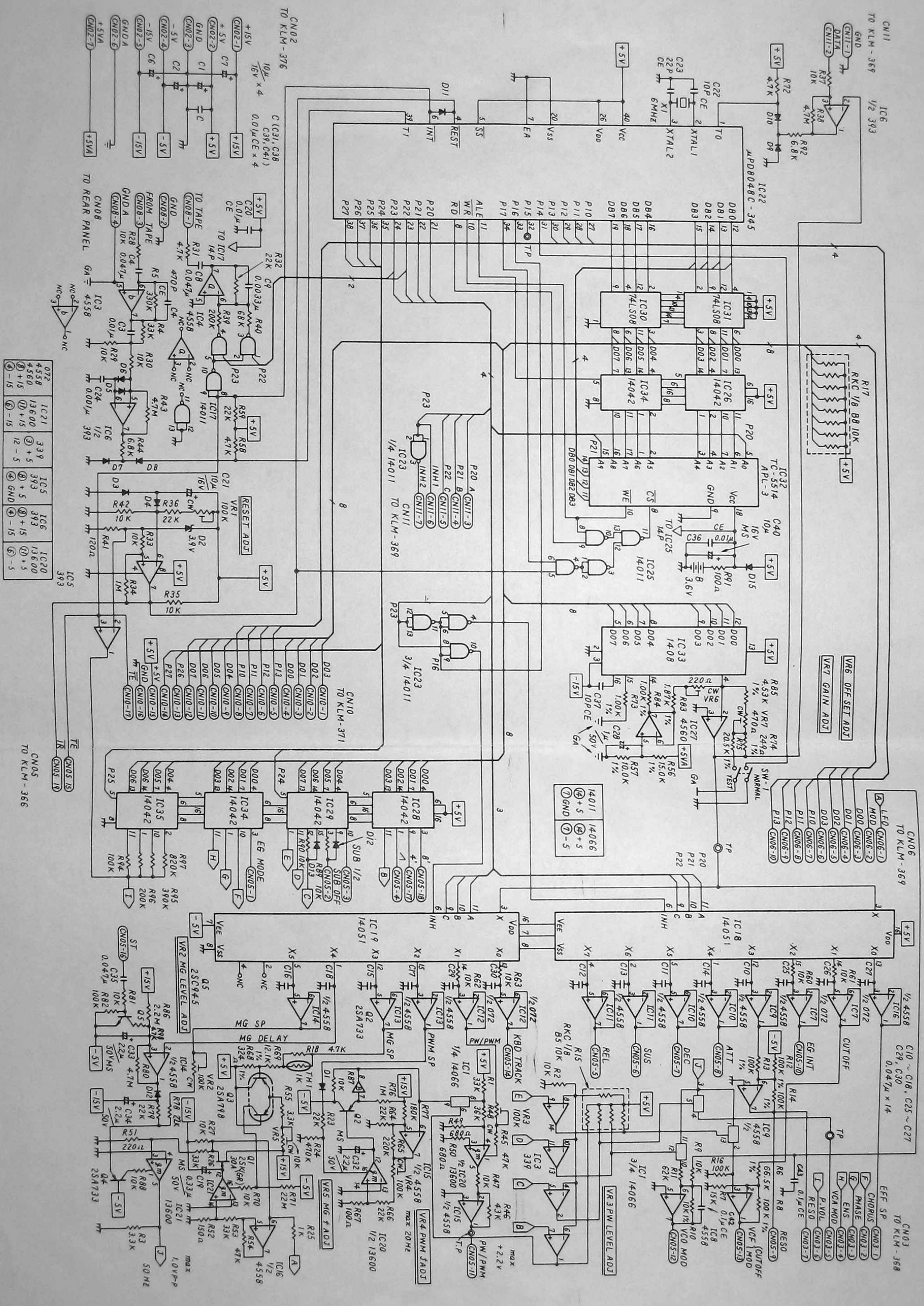


4. CIRCUIT DIAGRAM KLM-366 KEY ASSIGNER (OLD PRODUCTION)





IC9, 17, 18, 37 x 3	TL072
NJM1072	10MΩ
R87	22MΩ
R136	220KΩ x 6



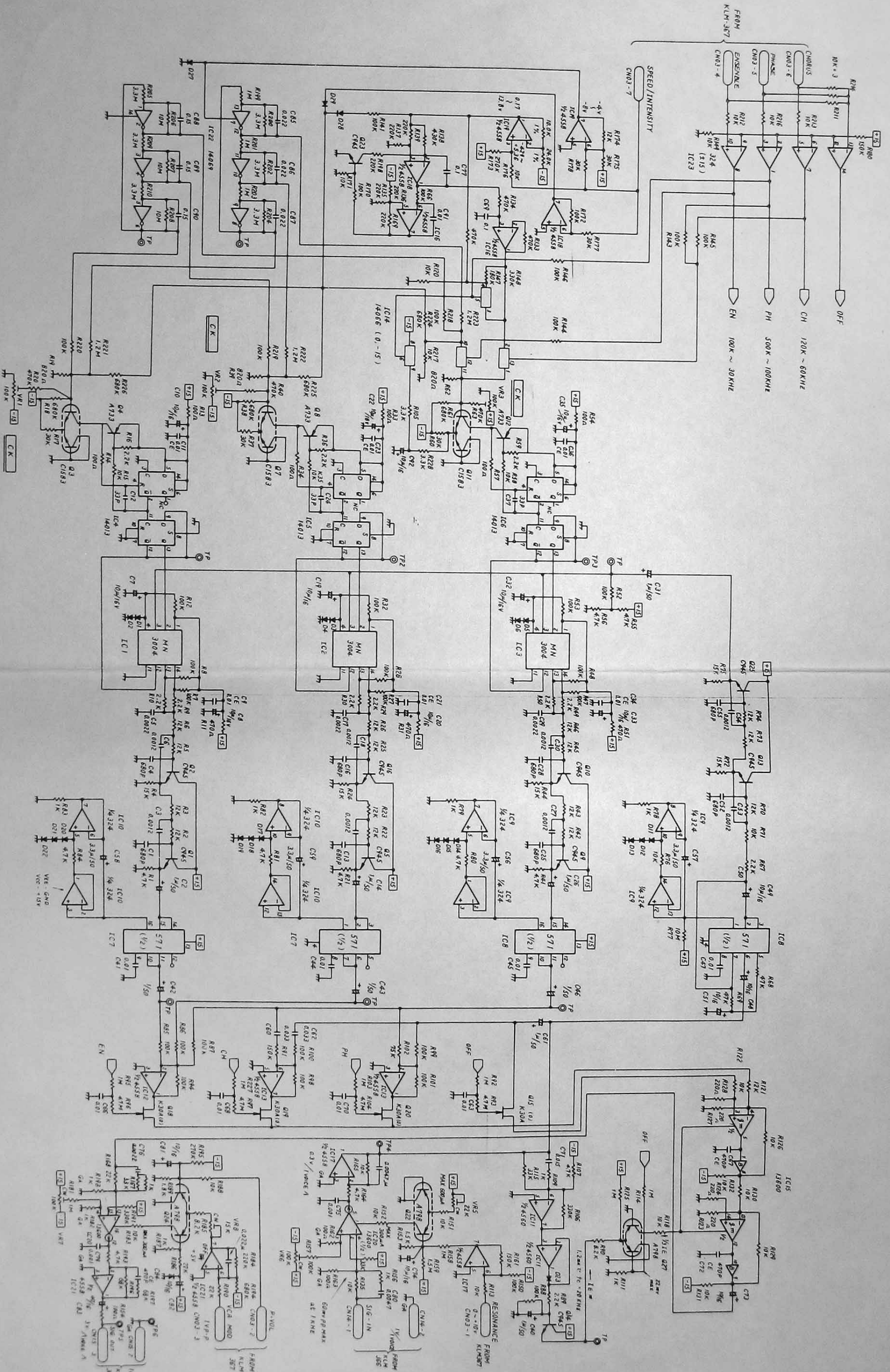
072	4558	IC21	339	IC5	IC6	IC20
4558	13600	4558	393	393	13600	13600
① +5	② +5	③ +5	④ +5	⑤ +5	⑥ +5	⑦ +5
⑧ -15	⑨ -15	⑩ -15	⑪ -15	⑫ -15	⑬ -15	⑭ -15

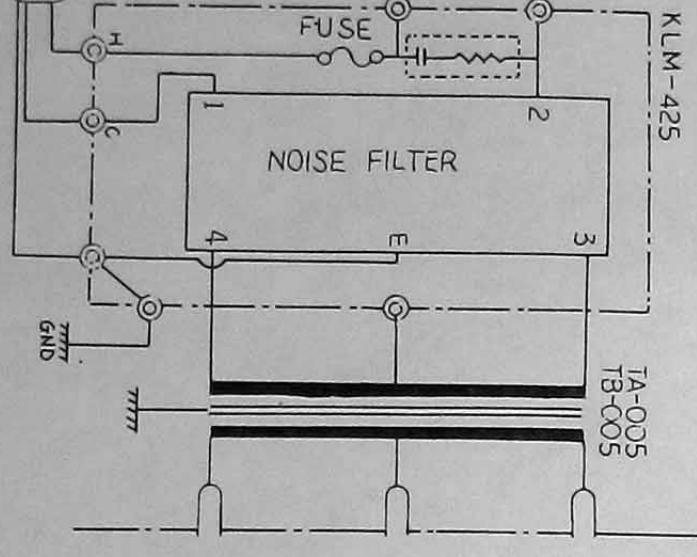
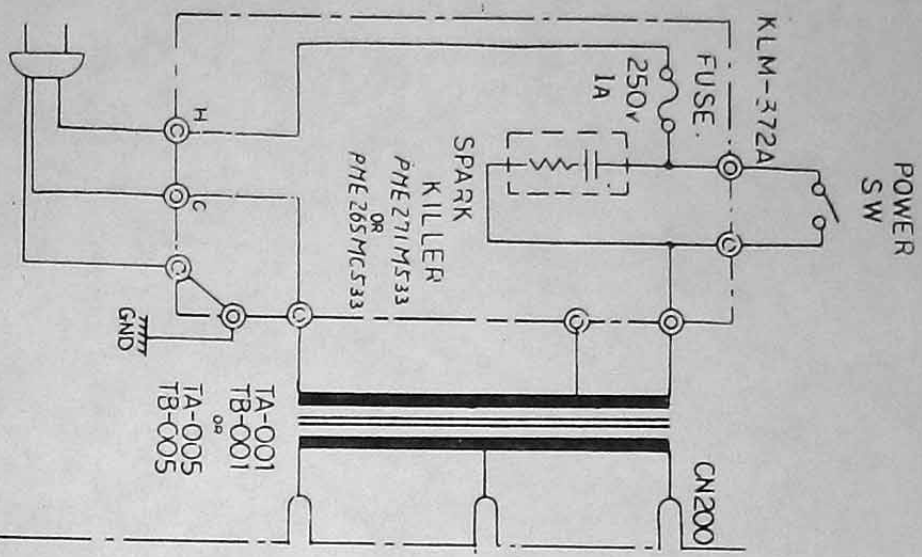
① +5	② +5	③ +5	④ +5	⑤ +5	⑥ +5	⑦ +5
⑧ -15	⑨ -15	⑩ -15	⑪ -15	⑫ -15	⑬ -15	⑭ -15

① +5	② +5	③ +5	④ +5	⑤ +5	⑥ +5	⑦ +5
⑧ -15	⑨ -15	⑩ -15	⑪ -15	⑫ -15	⑬ -15	⑭ -15

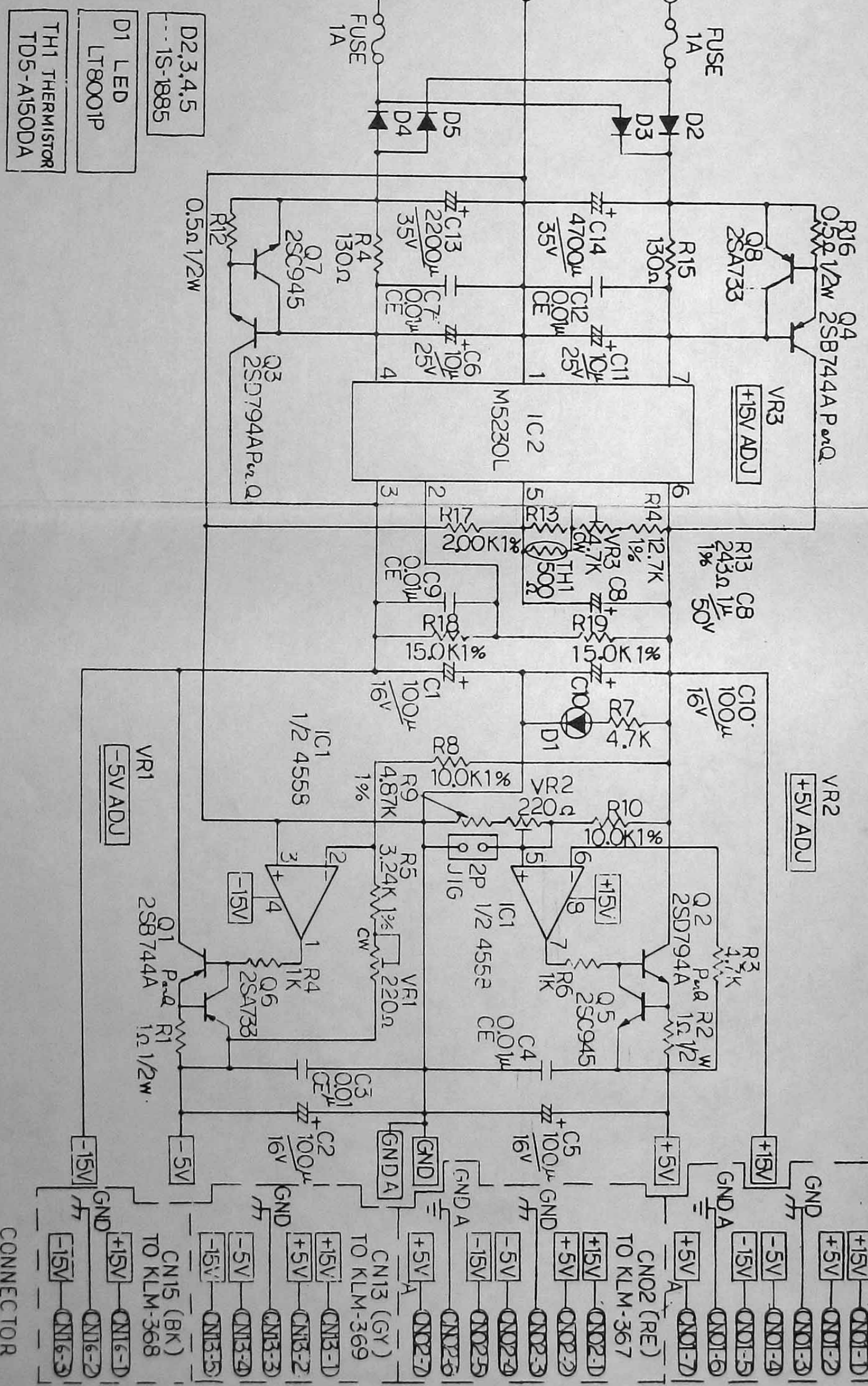
① +5	② +5	③ +5	④ +5	⑤ +5	⑥ +5	⑦ +5
⑧ -15	⑨ -15	⑩ -15	⑪ -15	⑫ -15	⑬ -15	⑭ -15

① +5	② +5	③ +5	④ +5	⑤ +5	⑥ +5	⑦ +5
⑧ -15	⑨ -15	⑩ -15	⑪ -15	⑫ -15	⑬ -15	⑭ -15





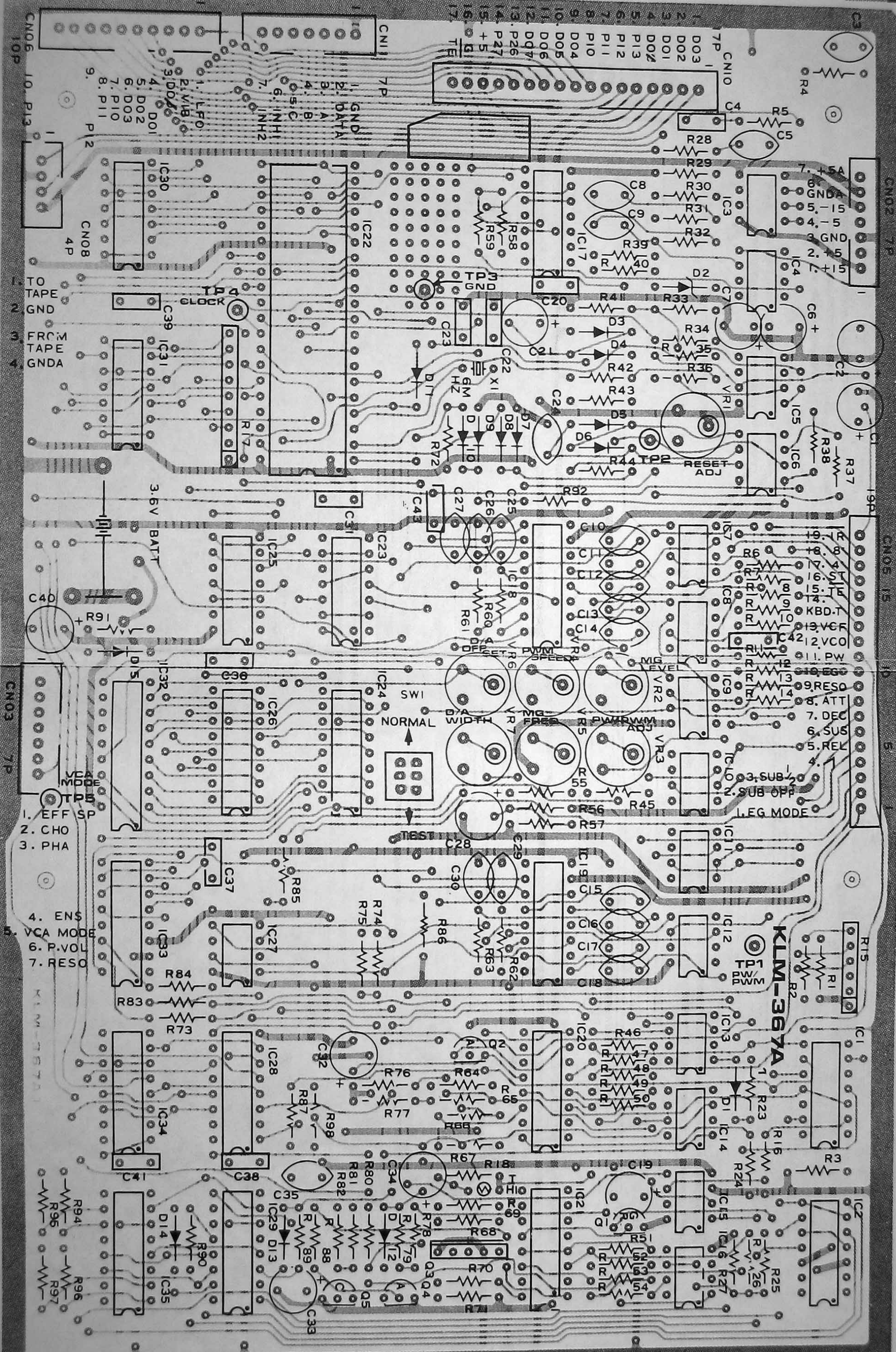
KLM-376A-PS



VOLTAGE	TA	TB
100V	120V	220V
3 BROWN	ORANGE	YELLOW
4 WHITE	WHITE	GREEN
NC	ORANGE	BROWN
		GREEN
		YELLOW

6. CONNECTOR FUNCTION

P.C.B.	CONN- TOR	FUNCTION	P.C.B.	TO CONN- TOR	COL- OR	P.C.B.	CONN- TOR	FUNCTION	P.C.B.	TO CONN- TOR	COL- OR	P.C.B.	CONN- TOR	FUNCTION	P.C.B.	TO CONN- TOR	COL- OR	P.C.B.	CONN- TOR	FUNCTION	P.C.B.	TO CONN- TOR	COL- OR	P.C.B.	CONN- TOR	FUNCTION	P.C.B.	TO CONN- TOR	COL- OR
KLM-366	01-1	+15	KLM-376	01-1	BR	KLM-369	11-4	C INH1	KLM-371	10-1	BR	KLM-369	201-1	D07	KLM-371	10-1	BR	KLM-369	201-1	D07	KLM-371	10-1	BR	KLM-369	201-1	D07	KLM-371	10-1	BR
	2	+5		2			5	INH2		2			2	P12		2				P12		2							
	3	GND		3			6	+15		3			3	GND		3				GND		3							
	4	-15		4			7	GND		4			4	GND		4				GND		4							
	5	GND		5			8	-15		5			5	GND		5				GND		5							
	6	GND		6			9	GND		6			6	GND		6				GND		6							
	7	+5A		7			10	GND		7			7	GND		7				GND		7							
	8	P17		8			11	GND		8			8	GND		8				GND		8							
	9	P16		9			12	GND		9			9	GND		9				GND		9							
	10	P15		10			13	GND		10			10	GND		10				GND		10							
	11	P14		11			14	GND		11			11	GND		11				GND		11							
	12	P13		12			15	GND		12			12	GND		12				GND		12							
	13	P12		13			16	GND		13			13	GND		13				GND		13							
	14	P11		14			17	GND		14			14	GND		14				GND		14							
	15	P10		15			18	GND		15			15	GND		15				GND		15							
	16	P20		16			19	GND		16			16	GND		16				GND		16							
	17	P21		17			20	GND		17			17	GND		17				GND		17							
	18	ACKR		18			21	GND		18			18	GND		18				GND		18							
	19	ACKI		19			22	GND		19			19	GND		19				GND		19							
	20	SIG OUT		20			23	GND		20			20	GND		20				GND		20							
	21	SIG OUT		21			24	GND		21			21	GND		21				GND		21							
	22	SIG OUT		22			25	GND		22			22	GND		22				GND		22							
	23	SIG OUT		23			26	GND		23			23	GND		23				GND		23							
	24	SIG OUT		24			27	GND		24			24	GND		24				GND		24							
	25	SIG OUT		25			28	GND		25			25	GND		25				GND		25							
	26	SIG OUT		26			29	GND		26			26	GND		26				GND		26							
	27	SIG OUT		27			30	GND		27			27	GND		27				GND		27							
	28	SIG OUT		28			31	GND		28			28	GND		28				GND		28							
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	45	SIG OUT		45			48	GND		45			45	GND		45				GND		45							
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	52	SIG OUT		52			55	GND		52			52	GND		52				GND		52							
	53	SIG OUT		53			56	GND		53			53	GND		53				GND		53							
	54	SIG OUT		54			57	GND		54			54	GND		54				GND		54							
	55	SIG OUT		55			58	GND		55			55	GND		55				GND		55							
	56	SIG OUT		56			59	GND		56			56	GND		56				GND		56							
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	60	SIG OUT		60			63	GND		60			60	GND		60				GND		60							
	61	SIG OUT		61			64	GND		61			61	GND		61				GND		61							
	62	SIG OUT		62			65	GND		62			62	GND		62				GND		62							
	63	SIG OUT		63			66	GND		63			63	GND		63				GND		63							
	64	SIG OUT		64			67	GND		64			64	GND		64				GND									



KLM-367A

TP1

TP2

TP3

TP4

TP5

- 1. EFF SP
- 2. CHO
- 3. PHA
- 4. ENS
- 5. VCA MODE
- 6. P.VOL
- 7. RESO

- 1. TO TAPE
- 2. GND
- 3. FROM TAPE
- 4. GND

- 1. DO3
- 2. DO2
- 3. DO1
- 4. DO2
- 5. DO3
- 6. DO1
- 7. P10
- 8. P11

- 1. GND
- 2. DATA
- 3. A
- 4. B
- 5. C
- 6. INH1
- 7. INH2
- 8. P10
- 9. P11

- 1. +5A
- 2. GND
- 3. GND
- 4. -5
- 5. -15
- 6. GND
- 7. +5

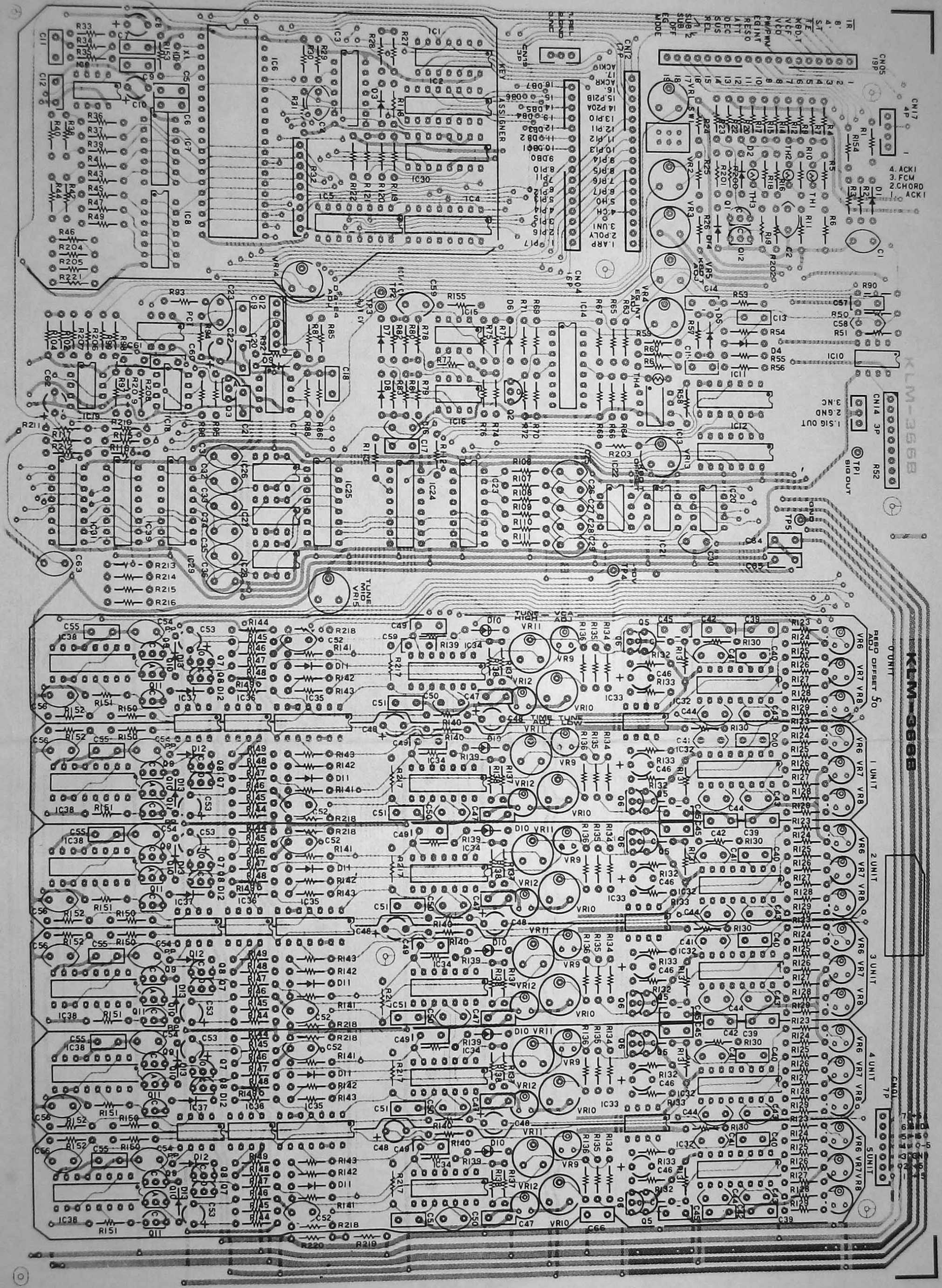
- 1. +5A
- 2. GND
- 3. GND
- 4. -5
- 5. -15
- 6. GND
- 7. +5

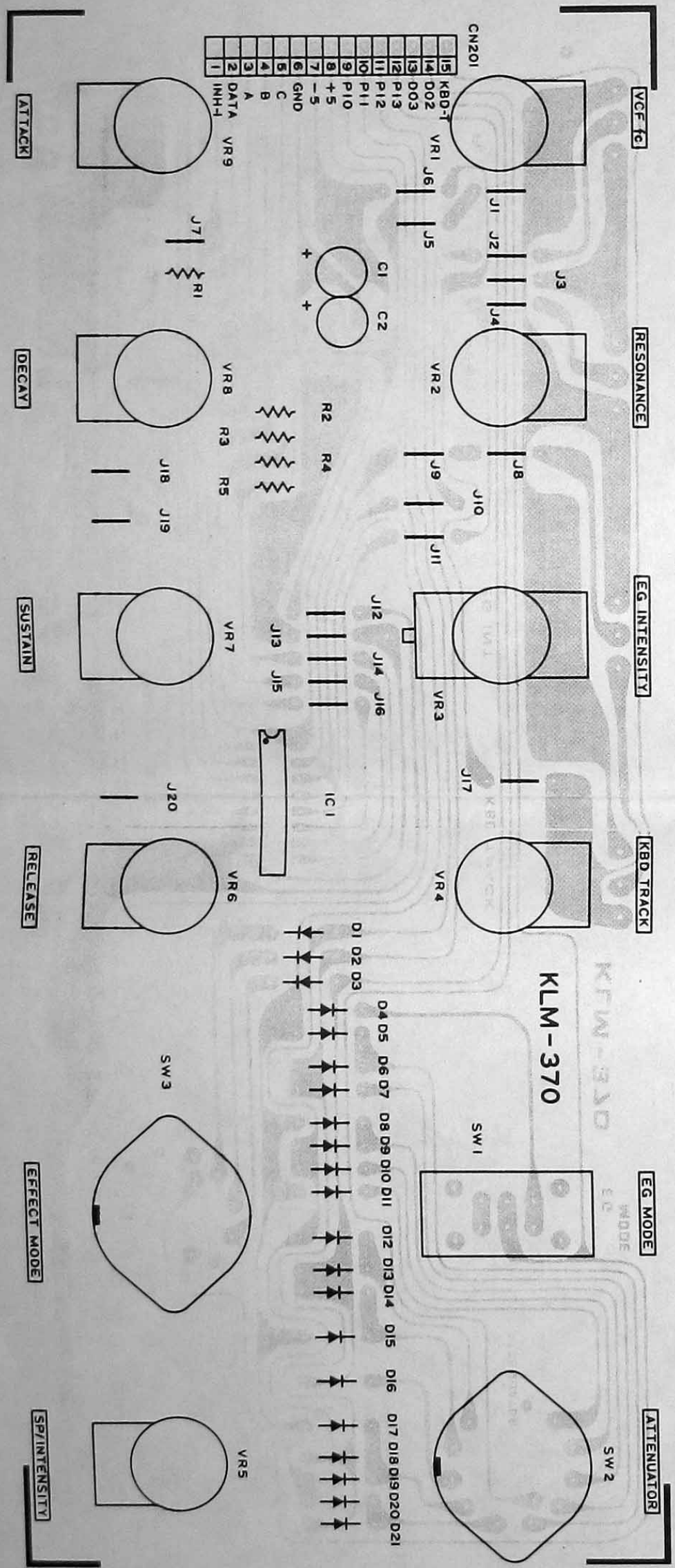
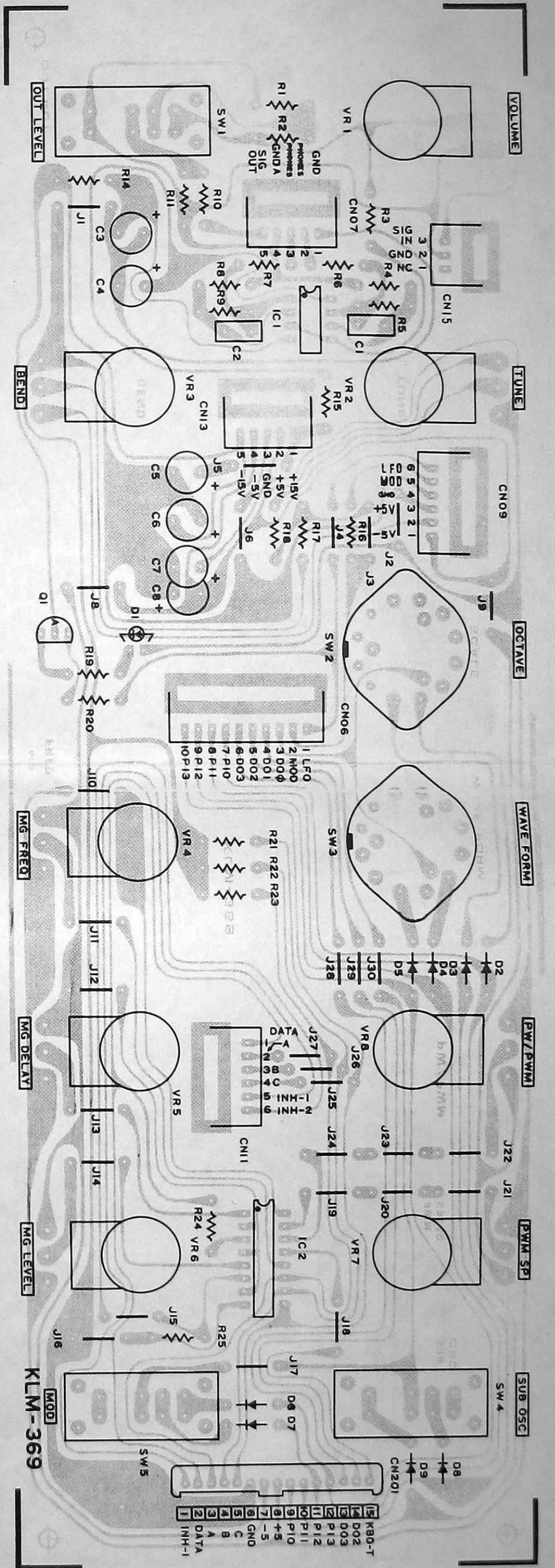
- 1. PW
- 2. VCO
- 3. VCF
- 4. KBD-T
- 5. ST
- 6. ST
- 7. ST
- 8. ATT
- 9. RESO

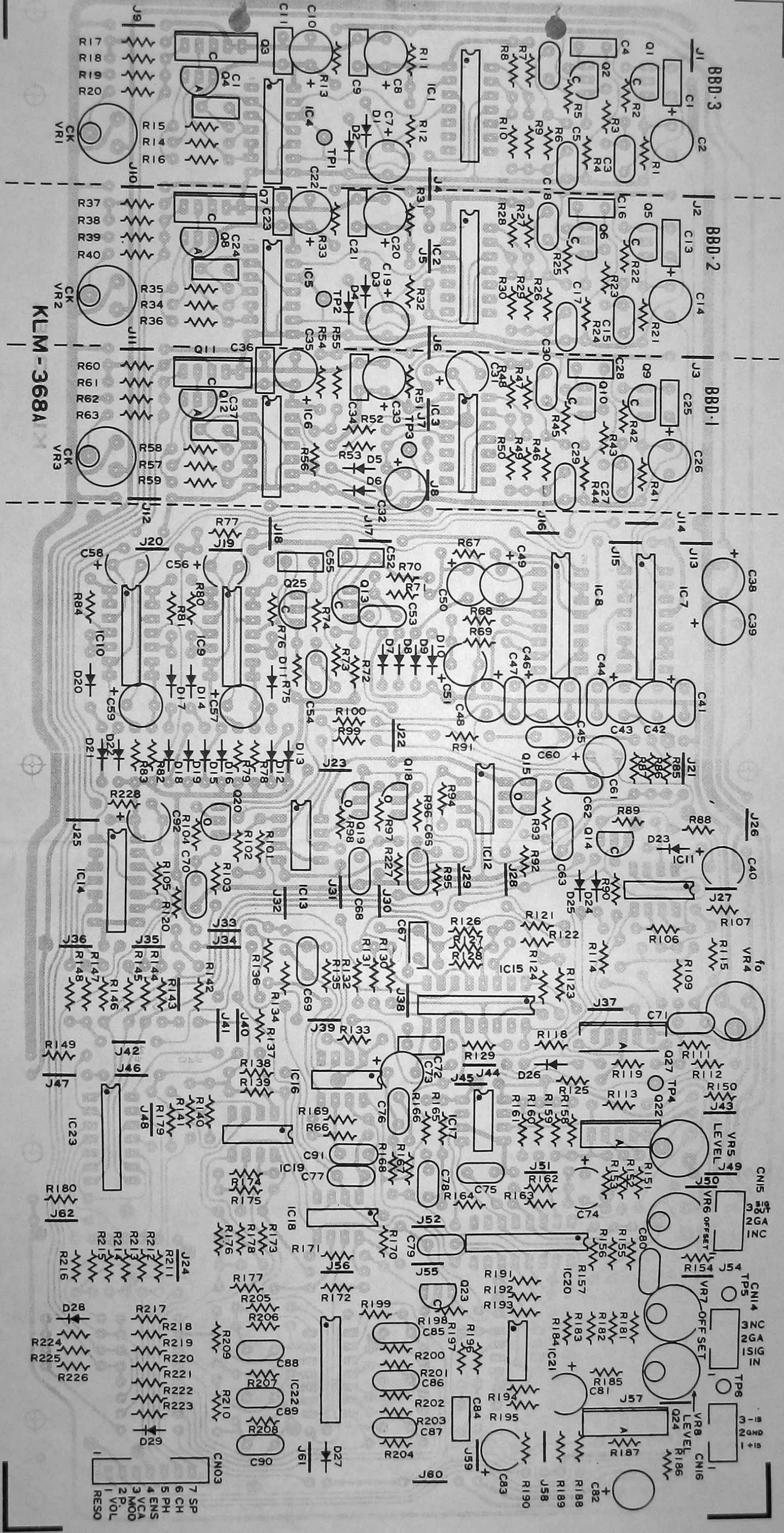
- 1. EFF SP
- 2. CHO
- 3. PHA
- 4. ENS
- 5. VCA MODE
- 6. P.VOL
- 7. RESO

- 1. EFF SP
- 2. CHO
- 3. PHA
- 4. ENS
- 5. VCA MODE
- 6. P.VOL
- 7. RESO

- 1. EFF SP
- 2. CHO
- 3. PHA
- 4. ENS
- 5. VCA MODE
- 6. P.VOL
- 7. RESO

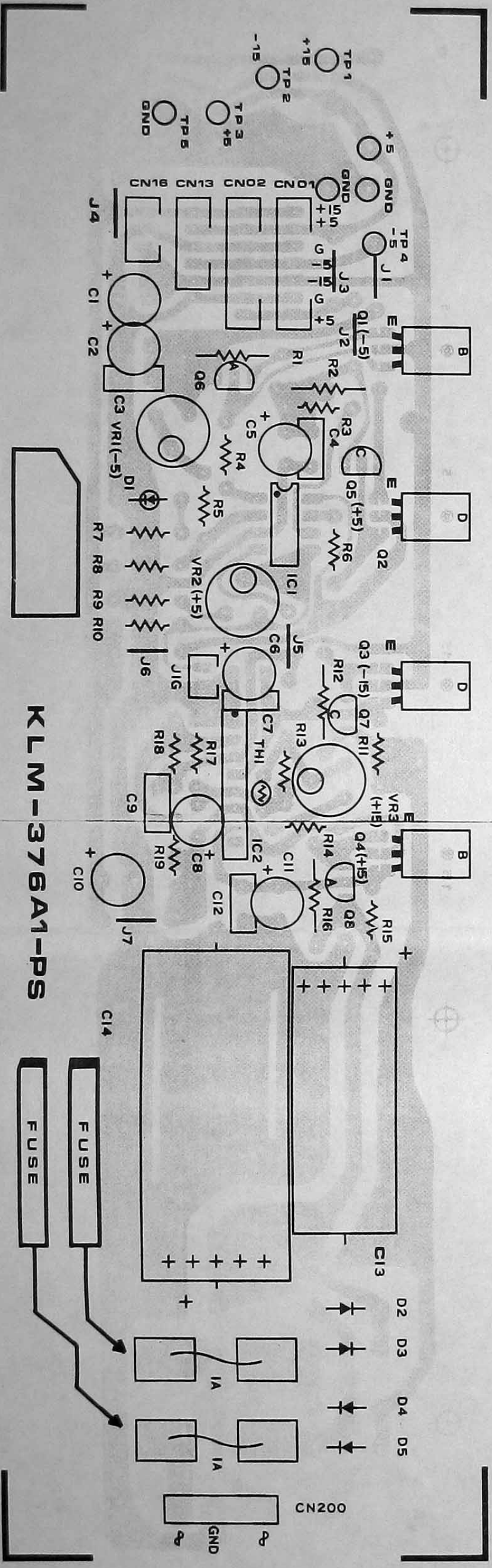
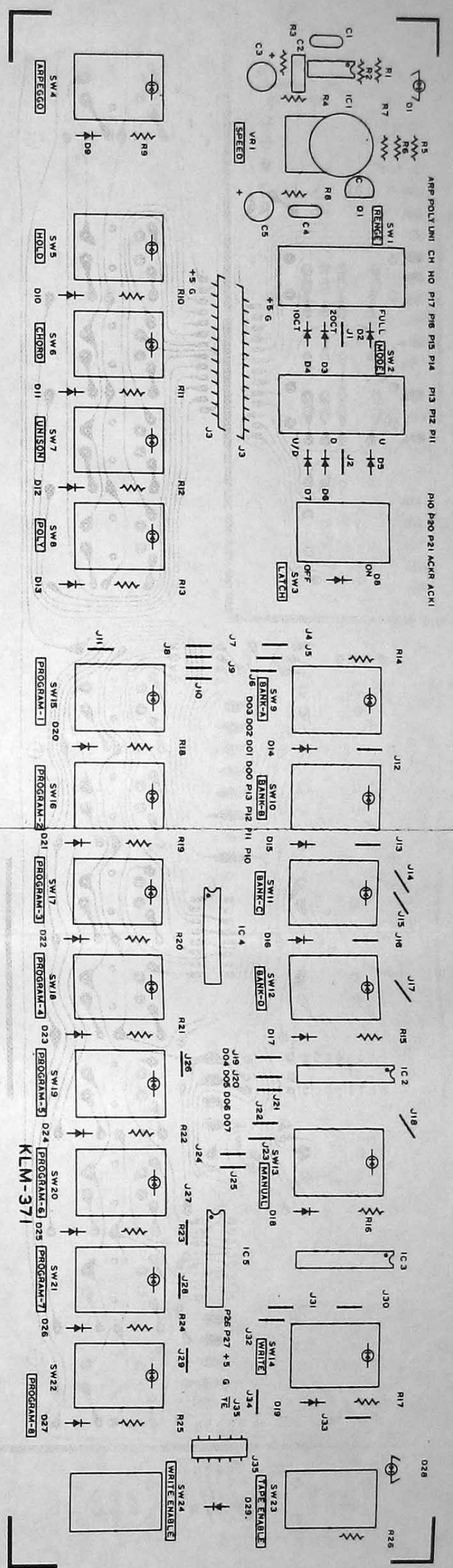


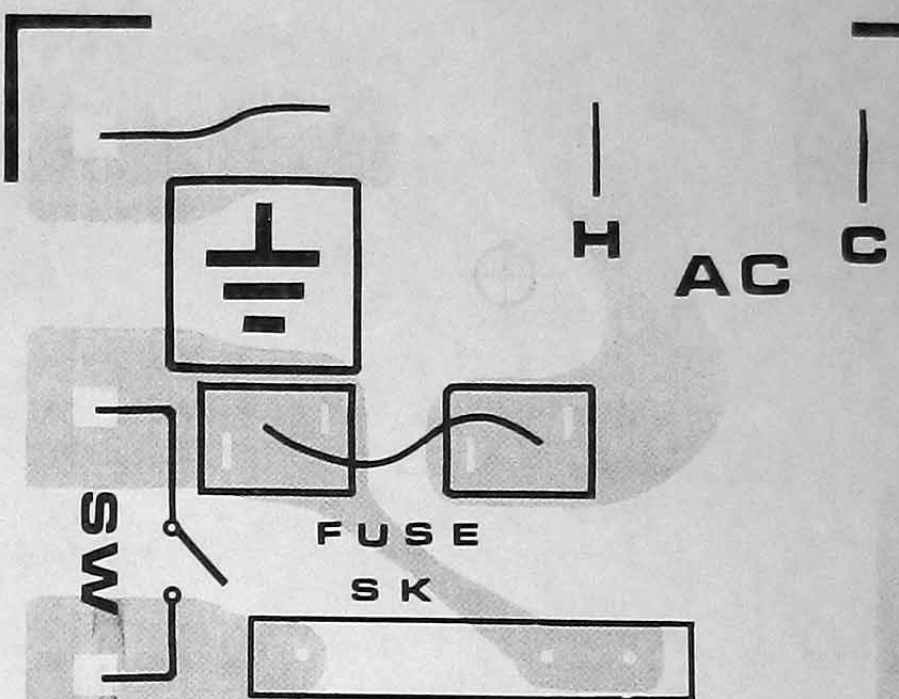




KLM-368A

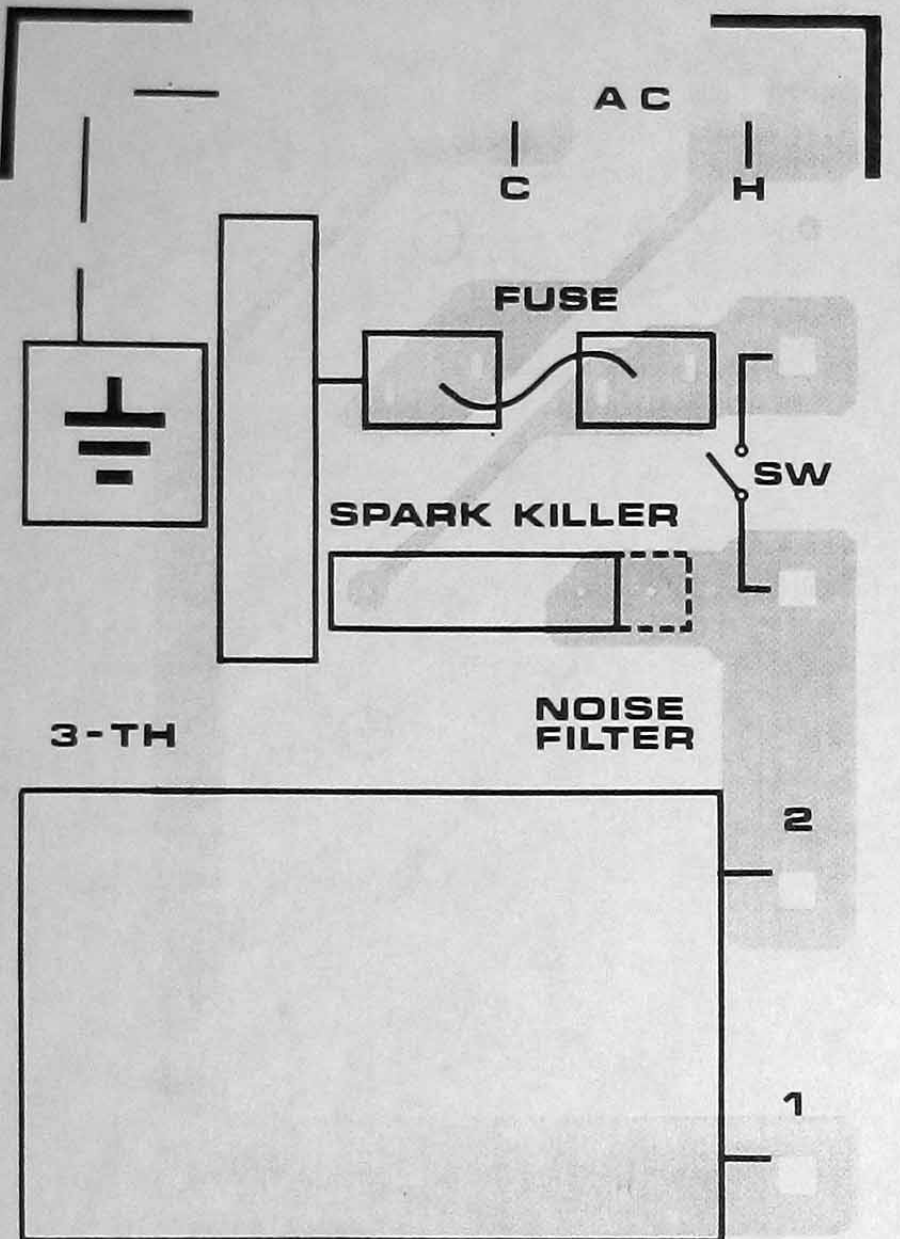
- 7 SP
- 6 CH
- 5 PH
- 4 VCA
- 3 MOD
- 2 VOL
- 1 RESO





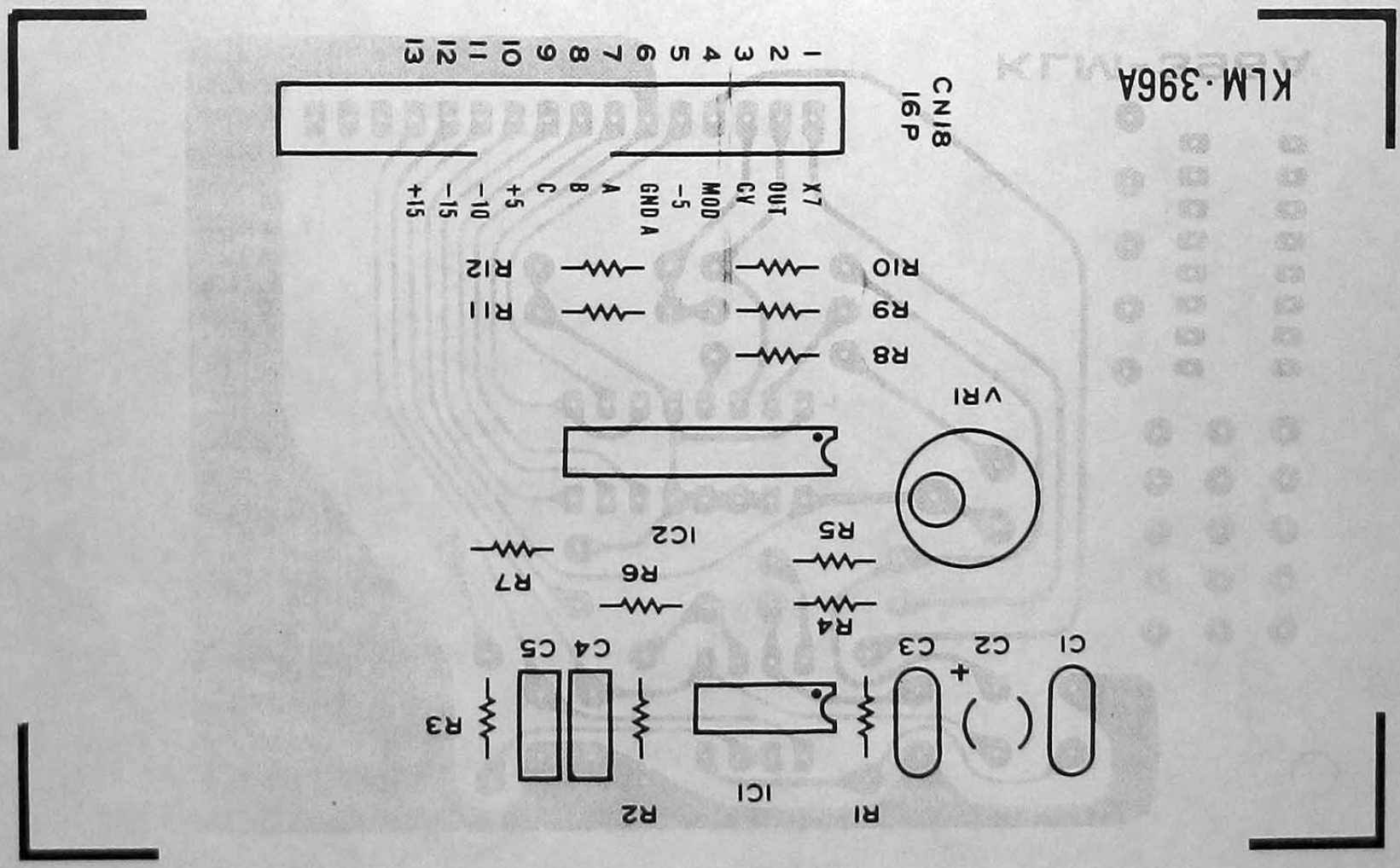
CAUTION FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REFER REPLACEMENT TO QUALIFIED SERVICE PERSONNEL. REPLACE WITH THE SAME TYPE 250 V FUSE.

ATTENTION AFIN D'ASSURER UNE PROTECTION PERMANENTE CONTRE LES RISQUES D'INCENDIE, LAISSER REMPLACER PAR UN TECHNICIEN QUALIFIE. REMPLACER PAR UN FUSIBLE DE MEME TYPE DE 250V.



4-T 0v

NC



8. ADJUSTMENT PROCEDURE

Caution: This unit has been precisely adjusted at the factory before shipment. Therefore, absolutely do not turn any of the variable resistors other than those required for servicing. Testing and adjustment should be performed only after allowing the unit to warm up for ten minutes. Variable resistor locations are marked on separate charts.

The following are required for the test procedures:

- Digital voltmeter (DVM) 4-1/2 digit
- Oscilloscope
- Tuner Korg WT-12, etc.
- Audio amp and speaker, or headphones.

1. Please check the following before proceeding.

- 1) Check all connections to make sure they are correct and secure.
- 2) Check memory back-up battery voltage. KLM-367 circuit board battery voltage should be 3.60V~4.10V.

3. KLM-367 check and adjustment.

- 1) Reset circuit. With controls at the normal setting (fig. 1), connect a dummy 56kohm 2P (2-pin) connector to the KLM-376 2P plug (male). If connector not available attach 56K resistor with small test clips (E-Z-Hook or Similar)

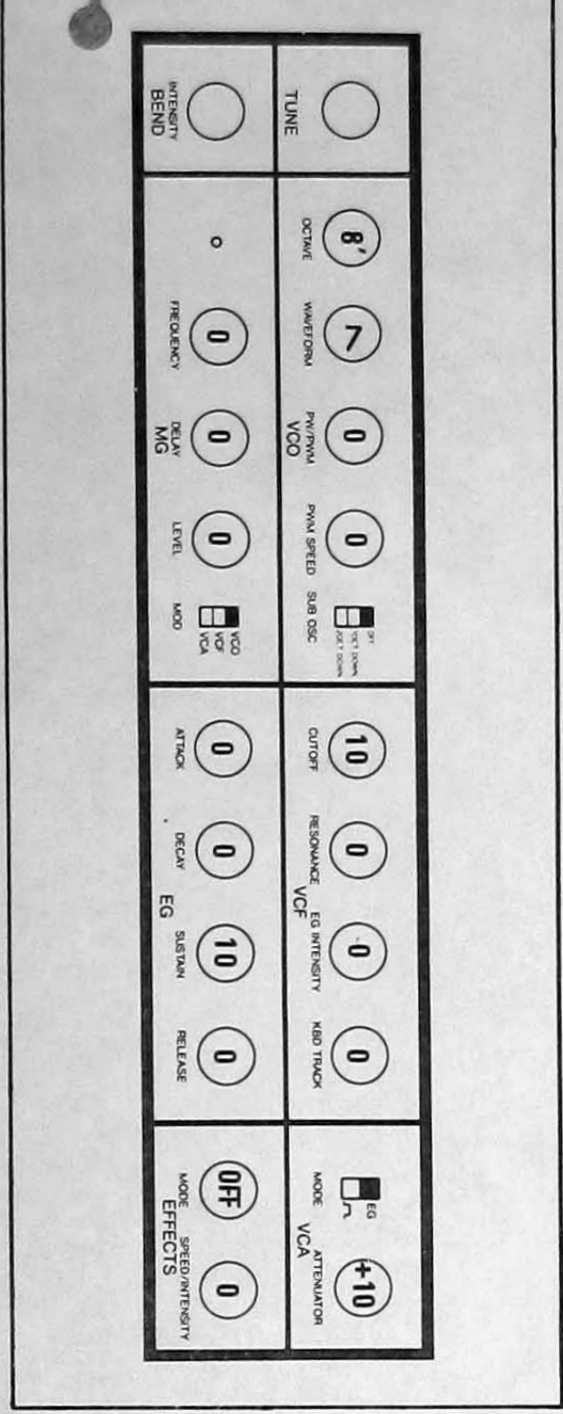
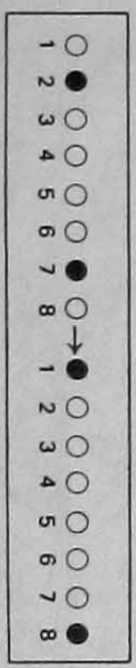


Fig. 1 Normal setting.

- 1) Turning VR1 from the counterclockwise position towards the clockwise direction, adjust so that the BANK A~D, MANUAL, TAPE ENABLE, and PROGRAM 1 ~ 8 LEDs all light up (instead of only BANK A and PROGRAM 1).
- 2) Confirm that only the BANK A and PROGRAM 1 LEDs light up when you remove the 56kohm 2P connector.

- (2) D/A adjustment.
 - 1) Set MANUAL to ON, CUTOFF to 10, and EFFECT INTENSITY to 0.
 - 2) Set circuit board SW1 to TEST position.
 - 3) Confirm that PROGRAM LEDs 1 & 8 alone light up when the TAPE SW is switched back and forth from DISABLE to ENABLE and back to DISABLE.
 - 4) If LEDs other than 1 and 8 light up, adjust VR6 (offset) and VR7 (width) so that only 1 & 8 light up.



- 5) Turning VR7 clockwise, adjust so that the lit LEDs shift to 1 & 8. In the shift from 2 & 7 to 1 & 8 there may be some time lag between the two. If this is very large, adjust VR6 to minimize it.

- 6) Switch the circuit board SW1 to the NORMAL position. Confirm that LEDs 1 & 8 remain lit up without any change.

- 7) Confirm that output DC click noise is within 6Vp-p when power is switched off.
- 8) Turn power on and confirm that the BANK A and PROGRAM 1 LEDs light up.

- (3) MG adjustment. Leaving other controls at the normal setting, set MG FREQUENCY to 10, LEVEL to 10, and MOD SW to VCA.
 - 1) Observe connector CN03-5 on oscilloscope.

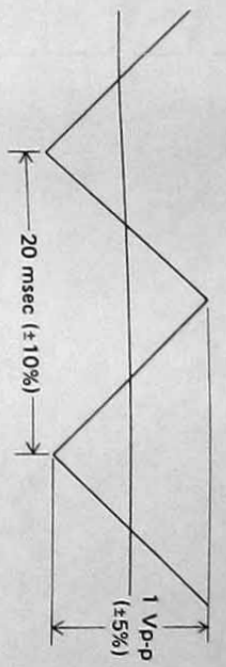


Fig. 2.

- 2) Adjust VR2 to obtain 1Vp-p(±5%) level; adjust VR5 to obtain frequency of 50Hz (20msec ±10%). If these values cannot be obtained after replacing IC LM13600, adjust R78 and R52 respectively.
- 3) Leave the other controls at the same settings as above, but change MG FREQUENCY to 0. Confirm a cycle of 10 ~ 40 sec. Leave other controls at same settings but change MG FREQUENCY to 4, and DELAY to 10. Confirm that the waveform appears 8 ~ 12 seconds after a key is depressed.

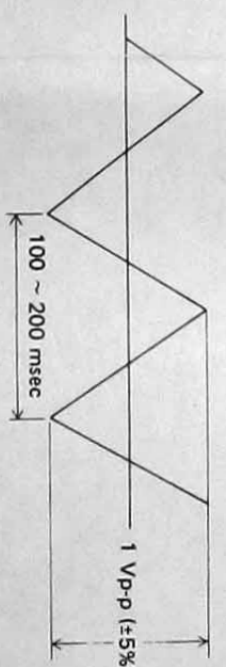


Fig. 3. (LEVEL 1Vp-p; frequency about 10Hz.)

- (4) PW/PWM check and adjustment. Set waveform to PW and PWM SPEED to 0, and PW/PWM to 10.
 - 1) Connect oscilloscope and DVM to CN05-11.
 - 2) Adjust VR3 to obtain +2.2V (±1%).
 - 3) Change WAVEFORM to PWM and PWM SPEED to 10. Adjust VR4 to obtain a frequency of 20Hz. Use resistor in series with VR4 if adjustment cannot be obtained in the same way as for the MG.

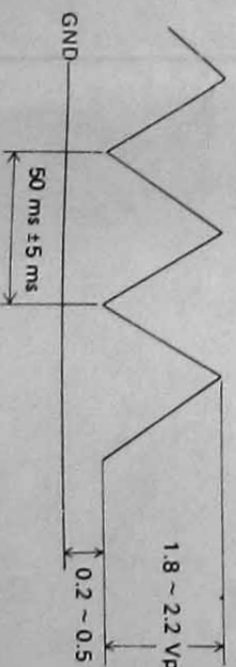


Fig. 4.

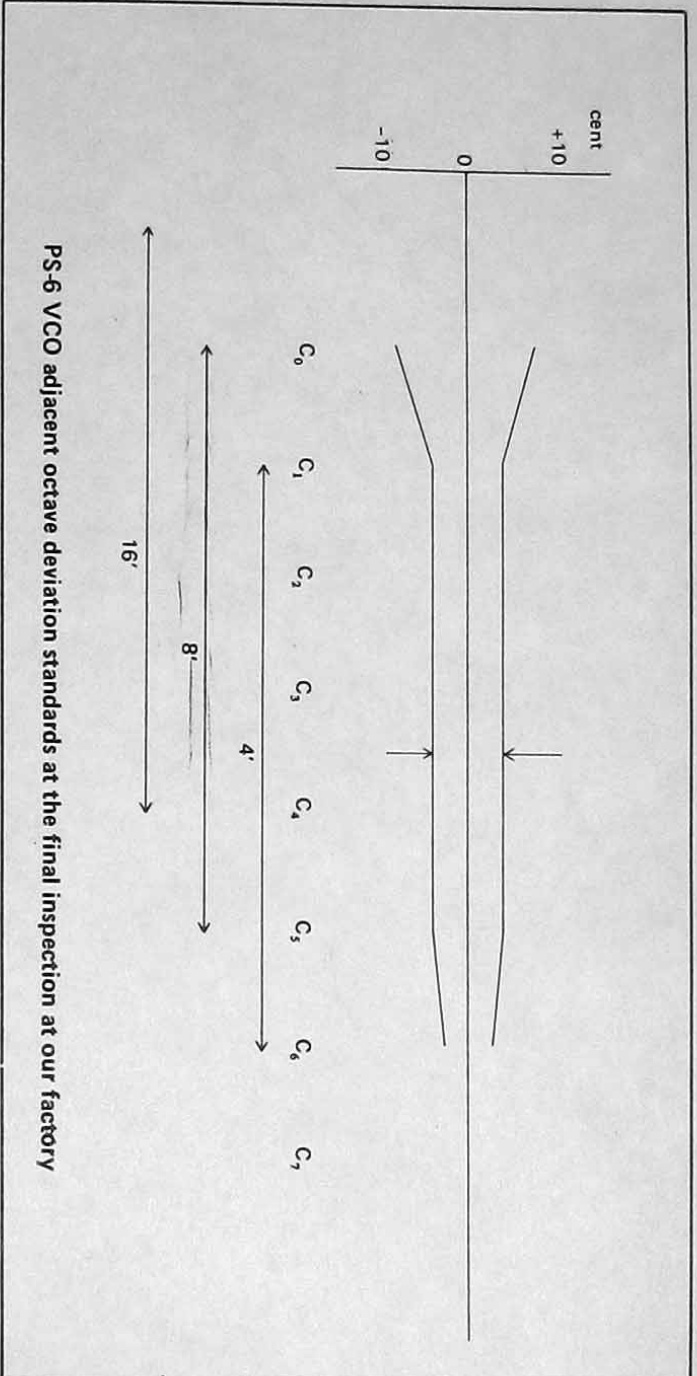
- 4) At this time confirm that there is a DC component of +0.2 ~ +0.5V.

4. KLM-366 check and adjustment. Obtain ground at TP5.
 - (1) VCF offset adjustment. Leaving other controls at standard settings, set WAVEFORM to PW and PW/PWM to 10.
 - 1) Use oscilloscope or DVM to check Q5 (2SC945) collector.
 - 2) Adjust VR7 to obtain 0mV ±2mV.
 - 3) Repeat steps 1 & 2 for units No. 0 ~ No. 5.
 - (2) VCA level adjustment. Set OCTAVE to 4; leave others at normal setting.
 - 1) Connect oscilloscope to SIG OUT (TP-1).
 - 2) Play C3 and adjust VR9 to obtain a sawtooth waveform amplitude of 1Vp-p (±5%).
 - 3) Repeat for units No. 0 ~ No. 5.
 - (3) VCF RESONANCE adjustment. Set OCTAVE to 8, WAVEFORM to PW, and PW/PWM to 10. Check CN05-7 with DVM and adjust to obtain 0.000V ±20mV. Check CN05-11 with DVM and adjust RESONANCE VR to obtain 8.000V ±20mV. Leave other controls at normal setting.

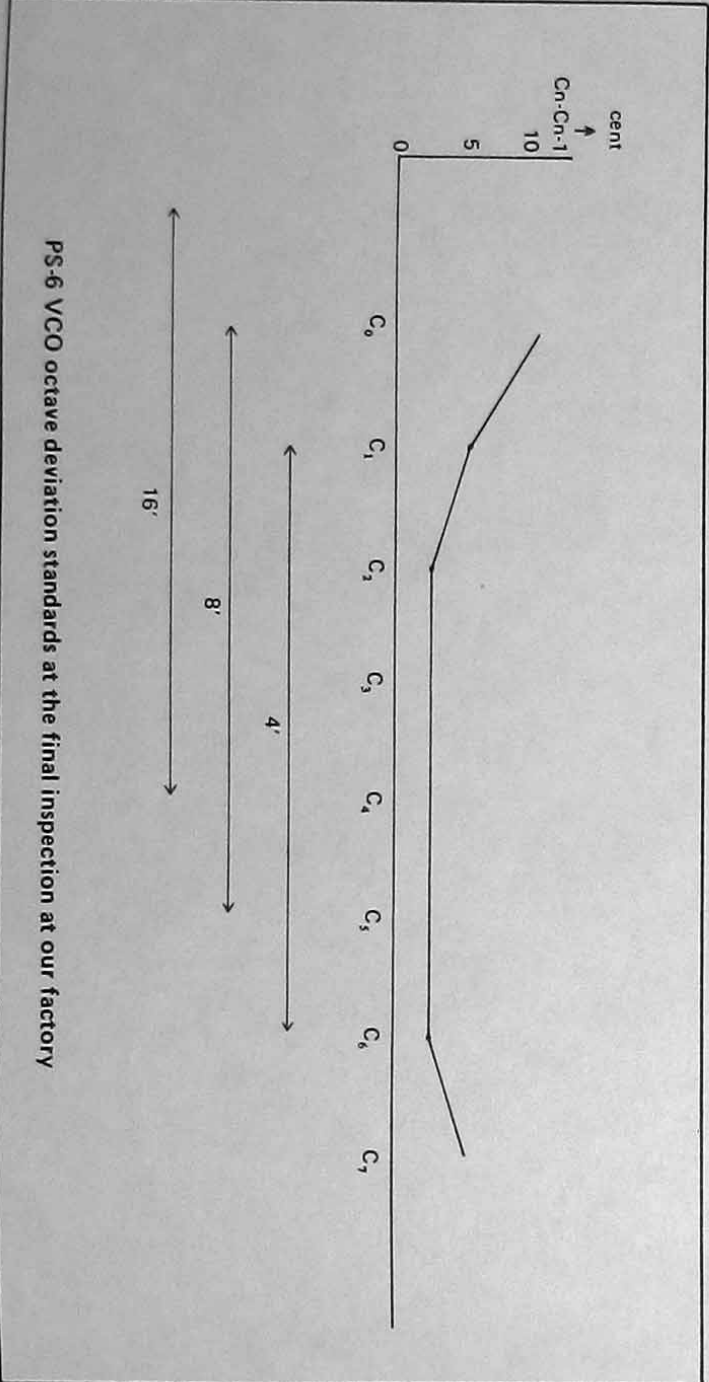
- 1) Check SIG OUT (TP1) with oscilloscope and frequency counter.
- 2) Play any single key and adjust VR6 so that the VCF waveform amplitude is 300mVp-p ±20mV.
- 3) Repeat for units No. 0 ~ No. 5.
- (4) VCF fo adjustment. Set RESONANCE to 10; leave others at same setting as above (3).
- 1) Check oscillation frequency with frequency counter and tuner (WT-12, properly calibrated, chromatic dial set to C).
- 2) Adjust VR8 to obtain fo=523Hz (±10 cent).
- 3) Repeat for units No. 0 ~ No. 5.
- 4) Turn CUTOFF from 0 to 10 and check to see that each unit's oscillation frequency is 10 ~ 25Hz at 0 and 19 ~ 24kHz at 10; amplitude should be at least 300mVp-p throughout.

- (5) EG INTENSITY adjustment. Set WAVEFORM to PW, PW/PWM to 10, CUTOFF to 0, RESONANCE to 10, EG INT to +5. Leave others at normal setting.
 - 1) Check SIG OUT (TP-1) with oscilloscope and frequency counter.
 - 2) Play any single key and adjust VR4 to obtain an oscillation frequency of 5kHz (±500Hz) for units No. 0 ~ No. 5.
 - 3) Set EG INT to +3 and check to see that there is no wide variation in pitch between units No. 0 ~ No. 5.
 - 4) Set octave to 4, RESONANCE to 0, EG INT to +5, SUSTAIN to 0, DECAY to 5. Leave others at same setting as 3) above. Check to see that there is no click noise for units No. 0 ~ No. 5.
- (6) KBD TRACK adjustment. Set OCTAVE to 16, connect DVM to CN05-6, and adjust KBD TRACK VR to obtain +1.6V.

- Leave others at same setting as (4).
- 1) C1 ~ C2 should sound approximately like a scale.
 - 2) Adjust VR5 if necessary.
 - (7) PITCH check and adjustment.
 - Set OCTAVE to 4'; leave others at normal.
 - 1) Change circuit board slide switch to opposite position. (away from VR1)
 - 2) Play C6 and adjust VR11 to obtain 0 cent.
 - 3) Repeat step 2) for units No. 0 ~ No. 5.



8) Check to confirm that deviation between adjacent octaves is within specifications. (for unit 0 only.) (Refer to VCO adjacent octave deviation standards.)



- 4) Play C2 and adjust KLM-396 VR1 to obtain 0 cent. Do this for one unit.
- 5) Set OCTAVE to 16', play C2 and adjust VR10 to obtain 0 cent.
- 6) Repeat step 5) for each unit. (VR3 is used to adjust for deviation of all units.)
- 7) Play C1, C2, C3, C4, C5, and C6, and confirm that each unit's deviation is within specifications. (Refer to Poly-6 deviation standards.)

- 9) Confirm that difference between 4' D#4 and E4 is within 2 cents. (Switch between POLY and UNISON and check unit 0 only.)
- 10) Switch SW1 to the front while playing C6 (stretch tuning) and confirm +8 ~ +12 cent.
- 11) Confirm difference of no more than 2 cents between 4' G5 and G#5. Unit 0 only is OK.
- 12) Confirm that KLM-366'S VR1 is approximately in the center position and not turned in the clockwise or counterclockwise directions.
- (8) EG TIME check and adjustment.
- 1) Attack time adjustment. Check CN05-12 with DVM and adjust ATTACK VR to obtain +0.9V ±20mV. Set SUSTAIN to 0; leave others at normal setting.
- 2) Test top side of R143 10K with oscilloscope. (Set sweep mode to normal.)
- 3) Set ARPEGGIO to ON, ARPEGGIO SPEED to 2.5, LATCH to ON, and UNISON to ON.
4. Play any single key and adjust VR12 to obtain an attack time of 250msec ±10msec. See fig. 5.

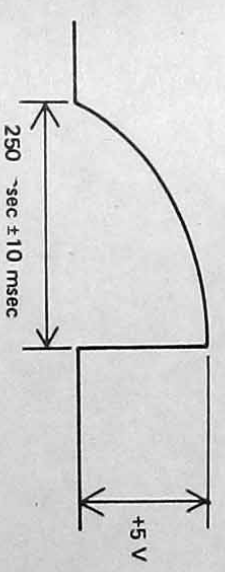


Fig. 5

- 5) Repeat steps 2) ~ 4) for units 0 ~ 5.
- 6) Set ATTACK to 10; leave others at setting 1). Repeatedly play a single key and confirm that differences between the fade-out of the six notes are within 5 seconds and that all fade out within 15 ~ 25 seconds.
- 7) DECAY TIME check. Set OCTAVE to 4', WAVEFORM to PW, PW/PWM to 10, CUTOFF to 2, RESONANCE to 10, EG INTENSITY to +3, DECAY to 8, SUSTAIN to 0, ARPEGGIO to ON, ARPEGGIO SPEED to 1 ~ 3, LATCH to ON, and KEY ASSIGN MODE to POLY. Leave others at normal. Listen to each unit and check to see that there are no deviations.
- 8) RELEASE TIME check. Set DECAY to 0, SUSTAIN to 10, and RELEASE to 8; leave others at same as 7) above. Listen to each unit and check to see that there are no deviations.

5. KLM-368 check and adjustment.
 - (1) HEADPHONE AMP OFFSET adjustment. 1) Use normal setting. Connect oscilloscope and DVM to TP4 (GND is TP-6). Adjust VR6 to obtain offset of 0mV ±20mV.
 - (2) HEADPHONE AMP LEVEL adjustment. Set OCTAVE to 4'; leave others at normal. Check point is same as (1) above. 1) Play C3 and adjust VR5 to obtain a sawtooth waveform amplitude of 0.3Vp-p (±5%). 2) Check to be sure there is no waveform distortion at this point.
 - (3) OUTPUT AMP OFFSET adjustment. Set WAVEFORM to PW, PW/PWM to 10, MG FREQUENCY to 7, LEVEL to 10, and MOD to VCA. Check SIG OUT (TP-5) with oscilloscope. 1) Adjust VR7 to minimize waveform amplitude. See fig. 6.

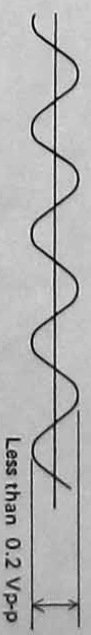


Fig. 6

- (4) OUTPUT AMP LEVEL adjustment. Set OCTAVE to 4'; leave others at normal. 1) Play C3 and adjust VR8 to obtain a sawtooth waveform amplitude of 3Vp-p (±5%). 2) Confirm that click noise occurring when power is turned off is less than volume of sound made by playing C3. DC click noise amplitude should be no greater than 6Vp-p.
- (5) BBD CLOCK adjustment. Set EFFECTS MODE to ENSEMBLE, SPEED/INTENSITY to 10. Leave others at normal. 1) Check TP-1 with oscilloscope. 2) Adjust VR1 to obtain maximum clock cycle of 30µsec. See fig. 7.

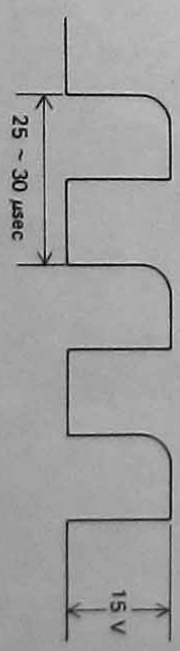


Fig. 7

- 3) Check TP-2 with oscilloscope.
- 4) Adjust VR2 to obtain maximum clock cycle of 30µsec.
- 5) Check TP-3 with oscilloscope.
- 6) Adjust VR3 to obtain maximum clock cycle of 30µsec.

9. PARTS LIST

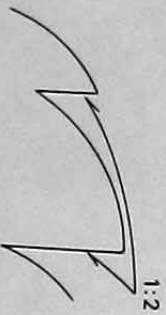
- 7) Set INTENSITY to 0 and check TP-3 with oscilloscope.
Set EFFECT to ENSEMBLE and confirm that the minimum ENSEMBLE clock time is 4 ~ 8μsec.
Set EFFECT to PHASE and confirm that maximum PHASE clock cycle is 8 ~ 12μsec, and minimum is 1.5 ~ 3μsec.
- 8) Set INT to 10 and confirm that maximum PHASE clock cycle is 2.5 ~ 3.5μsec, and minimum is 1.0 ~ 2.0μsec.

- 9) SET INT to 0 after completing the above.
- 10) Set EFFECT to CHORUS and confirm maximum clock cycle of 16 ~ 22μsec., and minimum of 8 ~ 12μsec.
- (6) EFFECT WAVEFORM check.
Use normal setting and check TP-5 with oscilloscope (1V, 2msec.) Play C1 and check the various waveforms while switching from one EFFECT MODE to another.

1) EFFECT MODE at OFF.



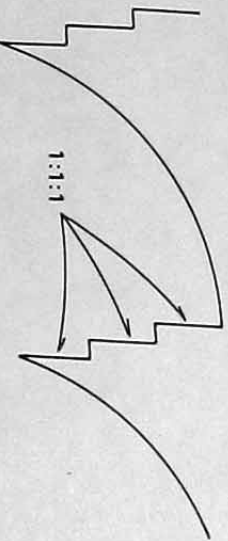
2) EFFECT MODE at CHORUS.



3) EFFECT MODE at PHASE.



4) EFFECT MODE at ENSEMBLE.



Note: Note that the CHORUS waveform is not as full as the PHASE or ENSEMBLE waveforms.

Fig. 8

PARTS NAME SPECIFICATIONS	PART CODE	QTY
CARBON RESISTORS (Not listed)		
SOLID RESISTORS		
1/4 K V 10M	11013810	5
22M	11013822	1
BLOCK RESISTORS		
RKC1/8 B5J 10K	13435100	1
B8J 10K	13635100	3
METAL FILM RESISTORS		
1/4FYLC 100Ω	12313100	1
102	12313102	2
243	12313243	1
249	12313249	1
324	12313324	1
464	12313464	1
499	12313499	1
1.00K	12314100	10
1.87	12314187	1
2.00	12314200	1
2.15	12314215	1
3.16	12314316	5
3.24	12314324	1
4.53	12314453	1
4.87	12314487	1
10.0	12315100	10
10.7	12315107	1
11.3	12315113	1
12.1	12315121	1
12.7	12315127	1
15.0	12315150	5
17.4	12315174	1
20.5	12315205	1
21.5	12315215	1
30.1	12315301	1
36.5	12315365	1
43.2	12315432	6
49.9	12315499	3
61.9	12315619	1
66.5	12315665	1
100 K	12316100	8
301	12316301	2
24.0	12315240	1
27.0	12315270	6
37.4	12315374	1
68.0	12315680	1
34.8	12315348	1
523	12316523	1
100 K	12066100	6
200	12066200	8
SEMI-FIXED RESISTORS		
100 B 220 Ω (R)	35201122	3
470	35201147	2
2.2	35201222	6
3.3	35201233	1
4.7	35201247	1
10	35201310	1
15	35201315	1
22	35201322	1
47	35201347	1
100	35201410	16
15	35001315	6
100	35001410	18
1MΩ	35001510	6

PARTS NAME SPECIFICATIONS	PART CODE	QTY
MYLAR CAPACITORS		
50V 0.001 μFK	20003410	4
0.0012	20003412	8
0.0022	20003422	4
0.0033	20003433	1
0.0047	20003447	2
0.01	20003510	27
0.022	20003522	3
0.033	20003533	2
0.047	20003547	45
0.015	20003515	1
0.1	20003610	2
0.15	20003615	3
0.0068 μFJ	20002468	18
CERAMIC CAPACITORS		
50V 10 PFD	21253210	3
22 J	21256222	4
33	21256233	4
100	21256310	5
470	21256347	10
560	21256356	6
680 K	21277368	8
0.01μF Z	21289510	52
0.1 μF M	21238610	2
POLYPROPYLENE CAPACITORS		
PPC 100V 6200PF	26000462	6
ELECTROLYTIC CAPACITORS		
50V 1 μF	23515110	11
2.2	23515122	1
3.3	23515133	4
10	23511210	2
16V 10	23507210	46
22	23507222	6
47	23507247	2
100	23507310	6
35V 2200	23613422	1
4700	23613447	1
50V 0.33 MS	23315033	1
2.2	23315122	2
16V 10	23307210	1
50V 1.5	23315115	1
POTENTIOMETERS		
EVAH5LA 802 B14	36005800	16
EVAH6LA 802 B14	36010800	1
EVAH5LA 802 C16	36007400	1
K1611 16KC	36014200	1
K1611008TE 10KB	36014000	1
ROTARY SW		
SRM-1033141	37002300	2
1034362	37001500	1
101B	37002600	1
TACT SW		
KHC-11901	37503400	19
SLIDE SW		
SSB-122019	37301000	4
12300	37303500	5
12202	37301200	2
SSS-322	37303400	2
1801-0121	37501600	1

PARTS NAME SPECIFICATIONS	PART CODE	Q'TY
PCB RAIL		
	64608200	1
MODEL NUMBER PLATE		
KOC-C40144	64050500	1
KEY BOARD		
ESK-701 61 KEYS	42001900	1

NOTE

This is the modification in circuit. Please make necessary treatment for unmodified sets.

- (1) Please fix yellow KBD wires to KBD chasis with cord keeper in order to keep the wires away from IC33 on P.C-Board KLM-367. This modification prevents wrong operation of the programmer.
- (2) Connect the GND side of the battery on P.C.-board KLM-367 to GND No. R2, R3 and R4 on P.C.-board KLM-370.
- (3) CONNECT the GND of PHONE JACKS to shield sheet under KLM-368.
- (4) Modification to improve the higher frequency response has been made on KLM-368 in order to improve the tone quality from the June production. The circuit diagram in this manual fits for the modification.

Constants for the old production are as follows:

R167	2.2K Ω	R166	1K Ω
R197	10 K Ω	C78	0.0047 μ
R196	100 K Ω		

OUTPUT AND LEVEL adjustment

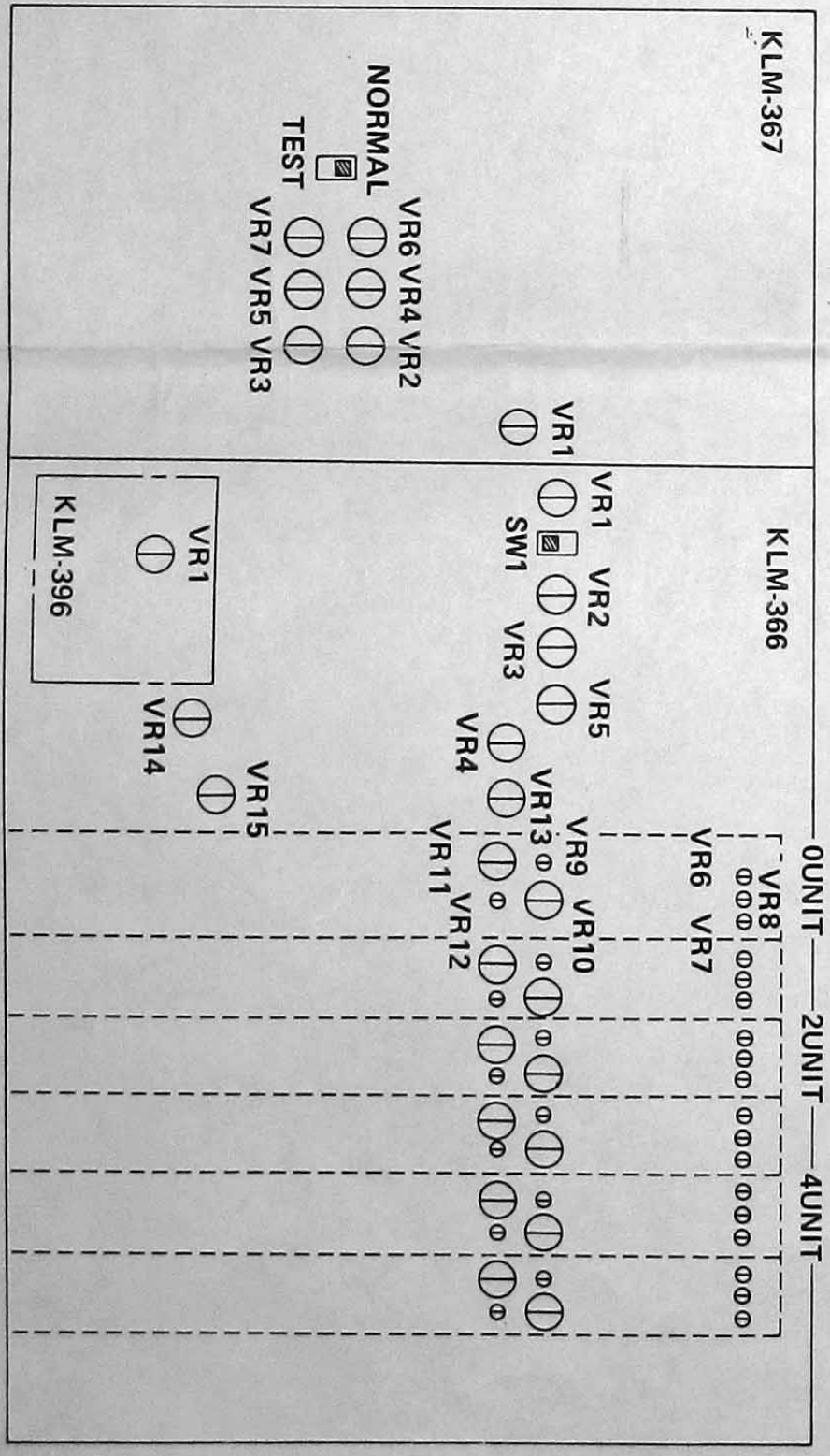
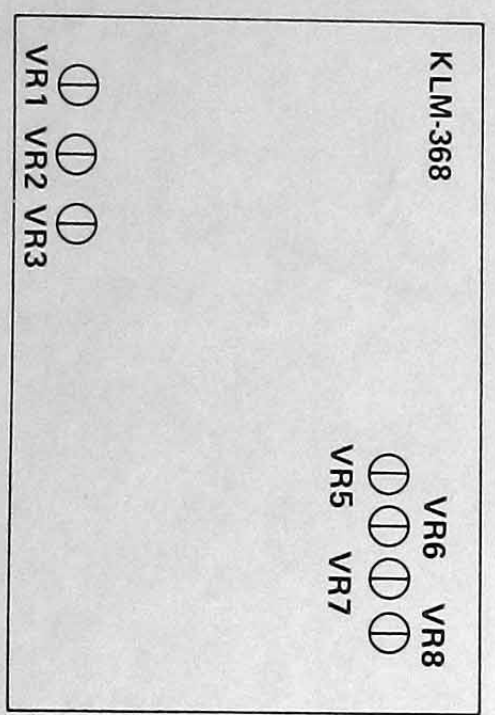
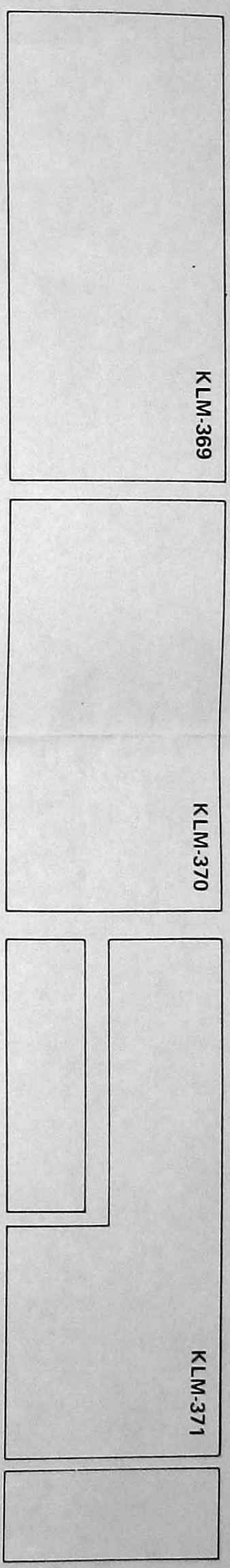
Same setting as P23 (4).

Play C3 and adjust VR8 to obtain a sawtooth waveform, amplitude of 2.0Vp-p ($\pm 5\%$).

- (5) The circuit diagram and the P-C Board for KLM-366 have been modified from the June production. Accordingly, adjustment procedure for KLM-366 has been changed as follows:

- 1) VCF for adjustment (Change in R58 and R64)
Turn CUTOFF from 0 to 10 and check to see that each unit's oscillation frequency is 6.5~20 Hz at 0 and 25~31 KHz at 10. Amplitude should be at least 300mVp-p throughout.
- 2) KBD TRACK offset adjustment
Same setting as P21 (6)
Play C1 and turn the KBD TRACK knob from 0 to 10. Confirm that the difference between these two pitches is within 20 cents. If not, adjust VR-13.
- 3) PITCH check and adjustment
VR15 on KLM-366 is equal to VR1 on KLM-396. Confirm that difference between 4' D#4 and E4 is within 2 cents. If necessary, adjust VR14.
VR2 is used to adjust for deviation in higher pitch range totally for all the 6 units.

7. SEMI-FIXED RESISTORS DIAGRAM



(*) VR2, VR13, VR14, VR15 → NEW PRODUCTION.)