

# RE-501, SRE-555 SERVICE NOTES

## SPECIFICATIONS

### Input Level/Impedance

Balanced: +4dBm/30kΩ  
 Unbalanced: 0dBm/47kΩ  
 -25dBm/220KΩ  
 -50dBm/6.6KΩ

### Output Level/Impedance

Balanced: +4dBm/600Ω  
 Unbalanced: 0dBm/More than 5KΩ  
 -25dBm/More than 5KΩ  
 -50dBm/More than 5KΩ

### Switch

Input-2-Level Switch (0, -25, -50dBm)  
 Output A-B Level Switch (0, -25, -50dBm)

SRE-555

**Power Consumption:** 24W

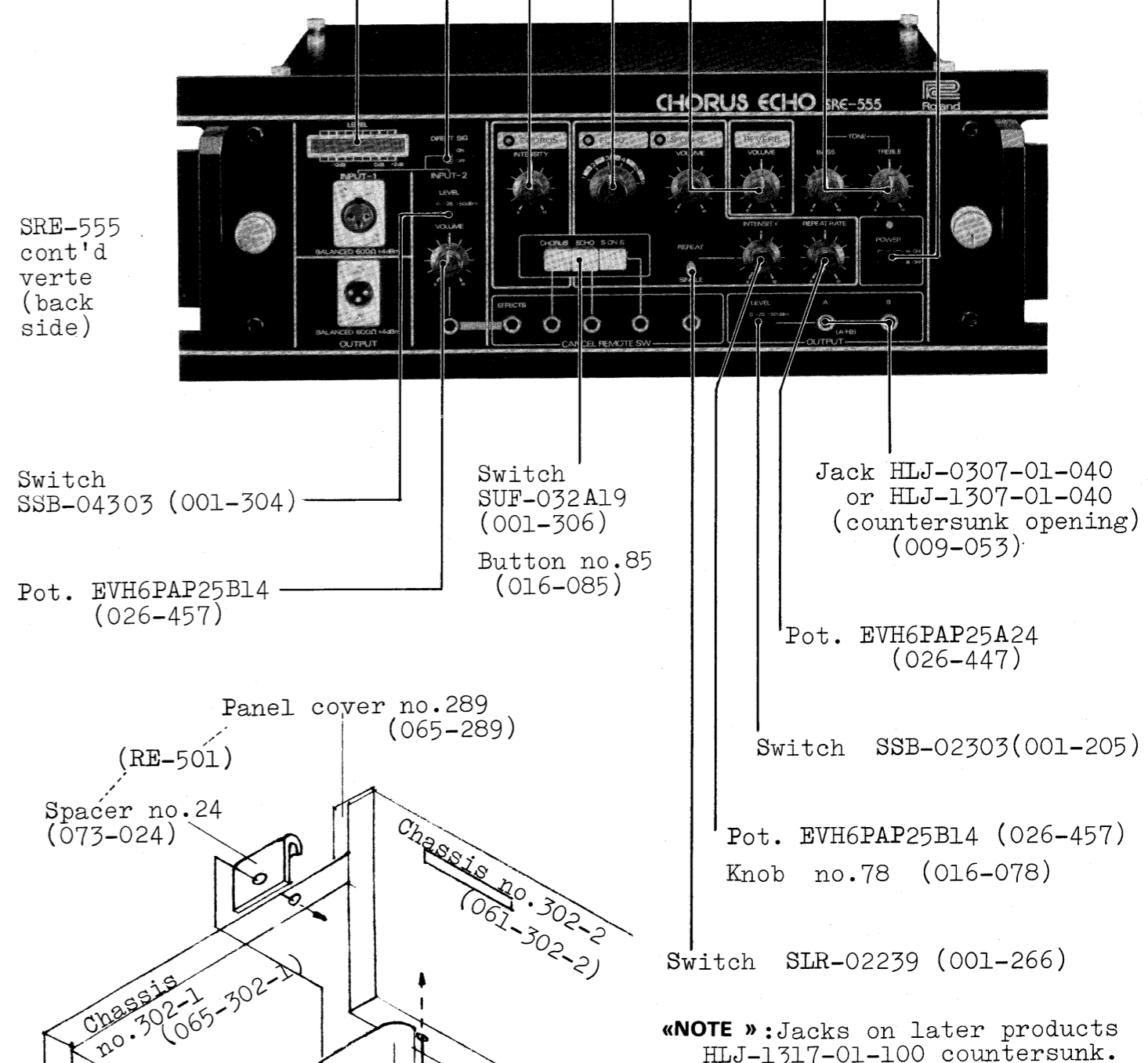
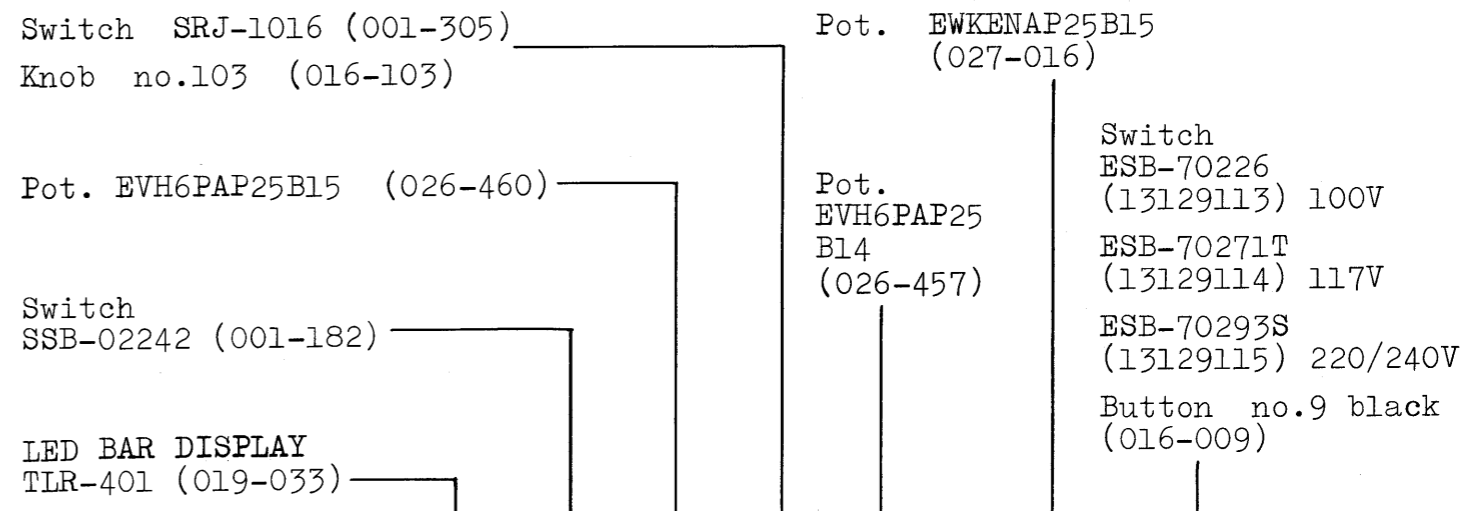
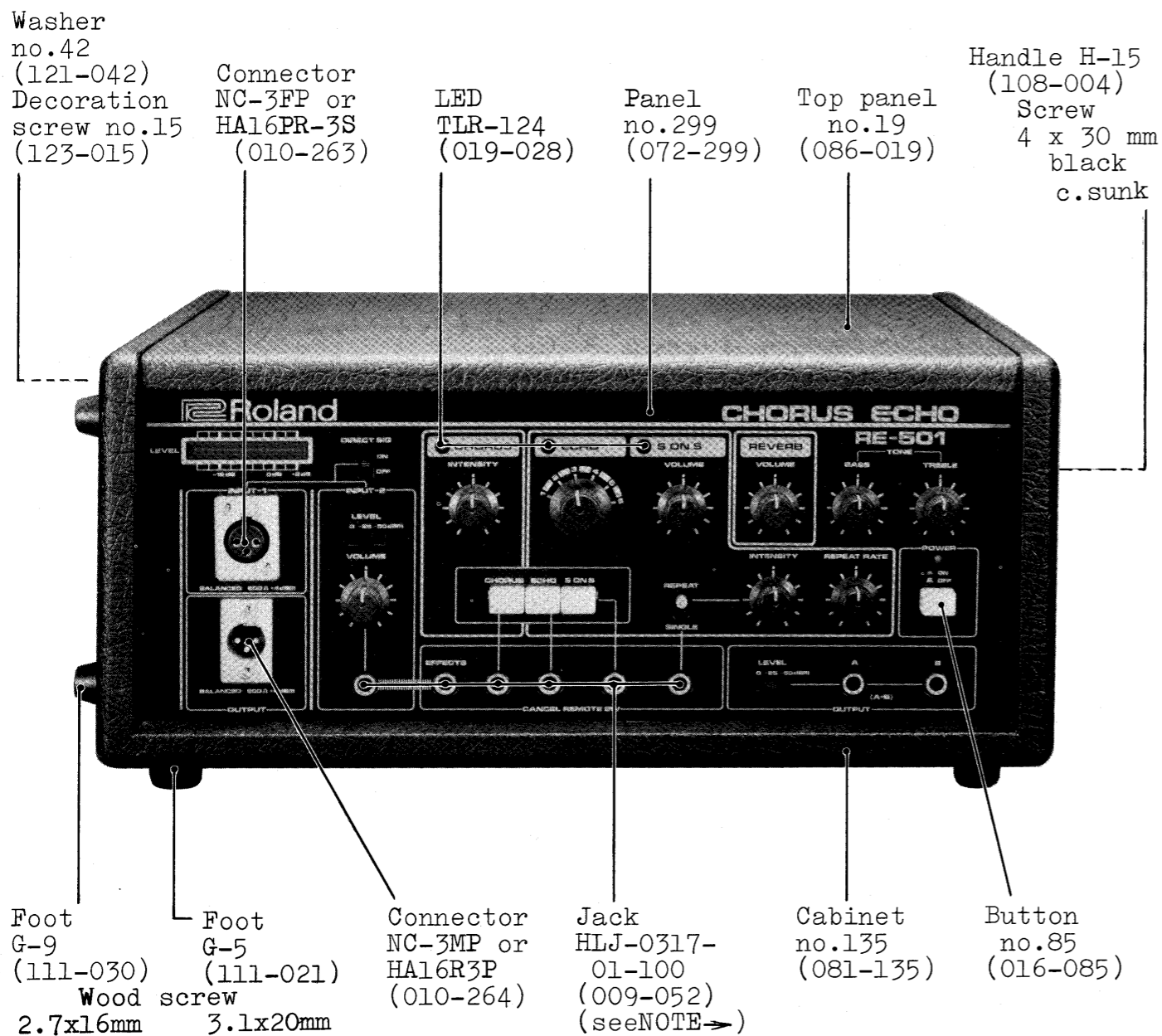
**Dimension:** 480(W) × 180(H) × 450~735(D)mm

**Weight:** 15.8kg

### RE-501

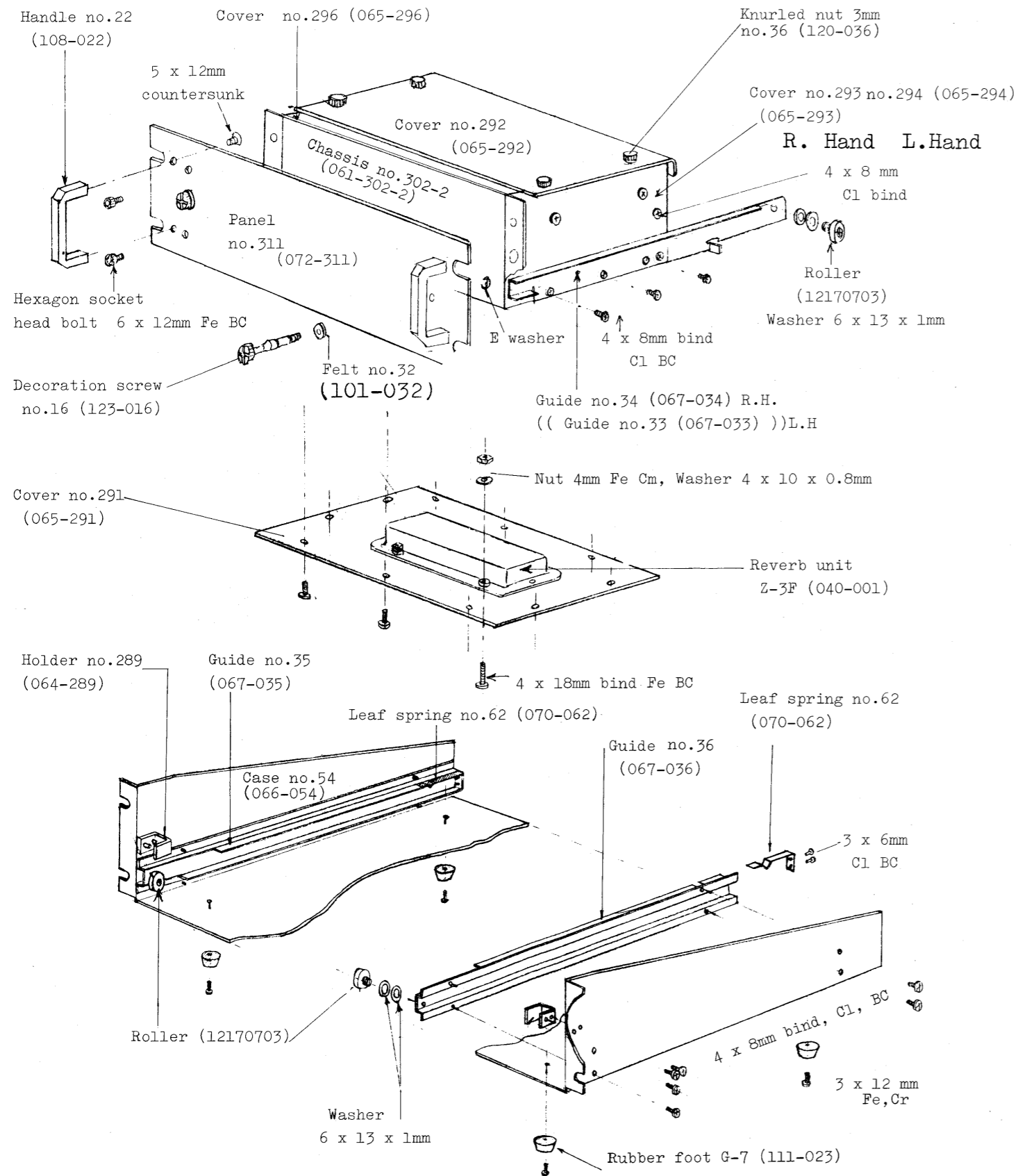
**Power Consumption:** 24W  
**Dimensions:** 418(W) × 190(H) × 330(D)mm  
**Weight:** 10.5Kg

**CABINET DISASSEMBLY:** Remove screws - two decorations on both sides; eight 4 x 25mm truss (6 bottom, 2 sides).

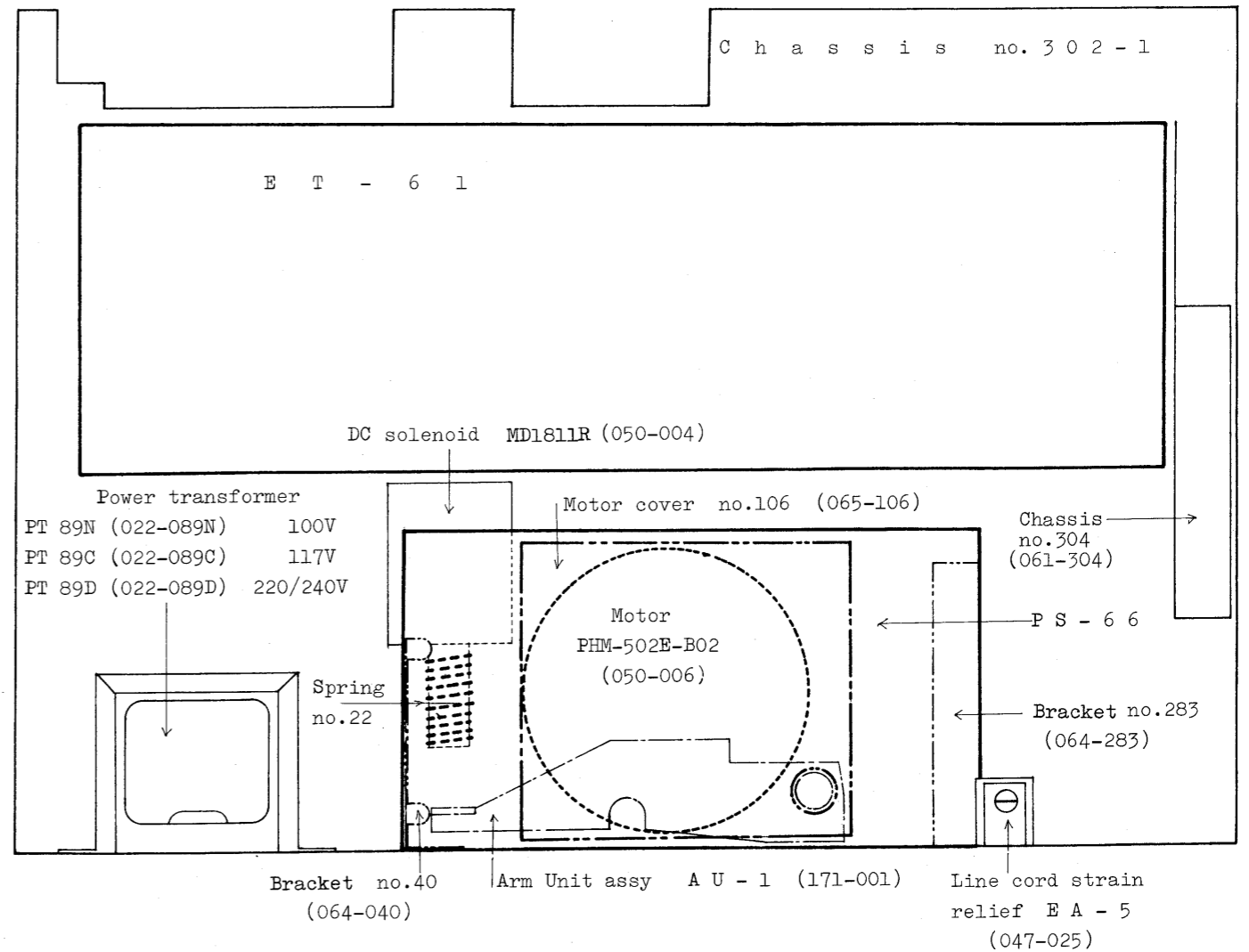
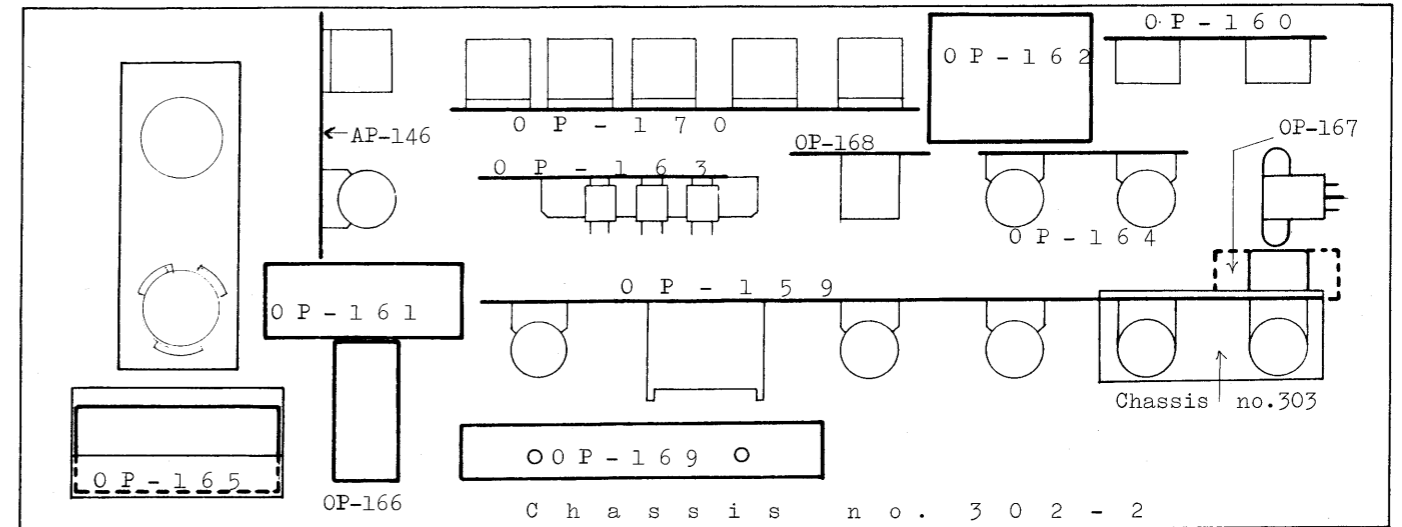


«NOTE»: Jacks on later products HLJ-1317-01-100 countersunk.

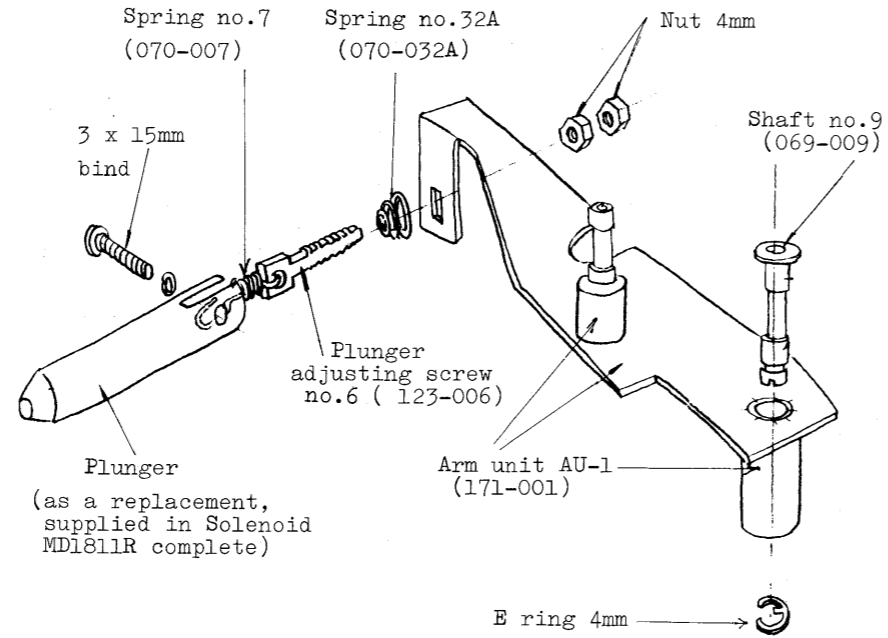
SRE-555 PARTS BREAK DOWN



RE-501, SRE-555 CHASSIS-ASSEMBLY ILLUSTRATION



**ARM UNIT**



**NOTE:**

The following list indicates the parts compatible but have different finishes. Of these, used mainly for RE501/SRE555 are chrome ones.

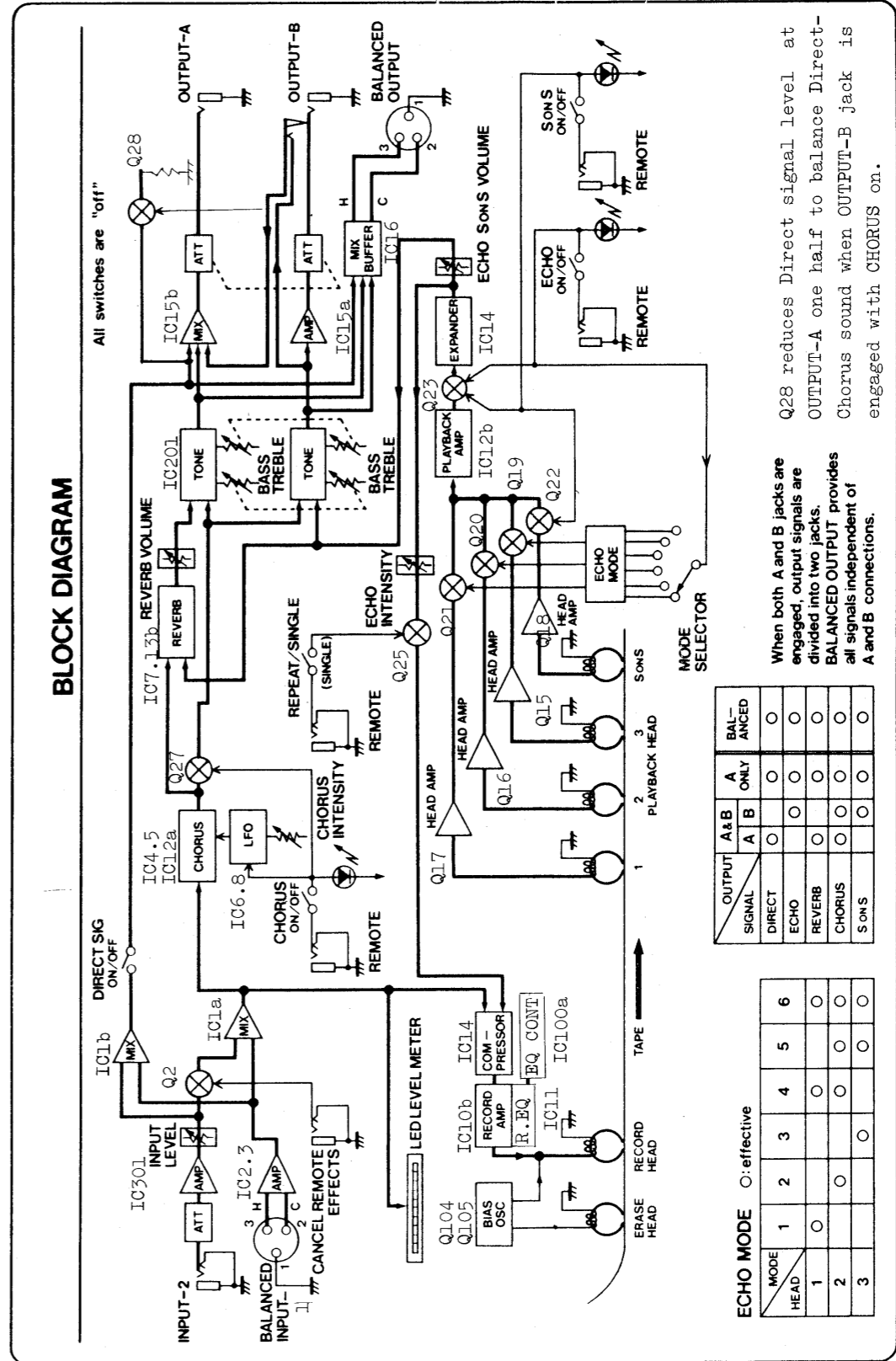
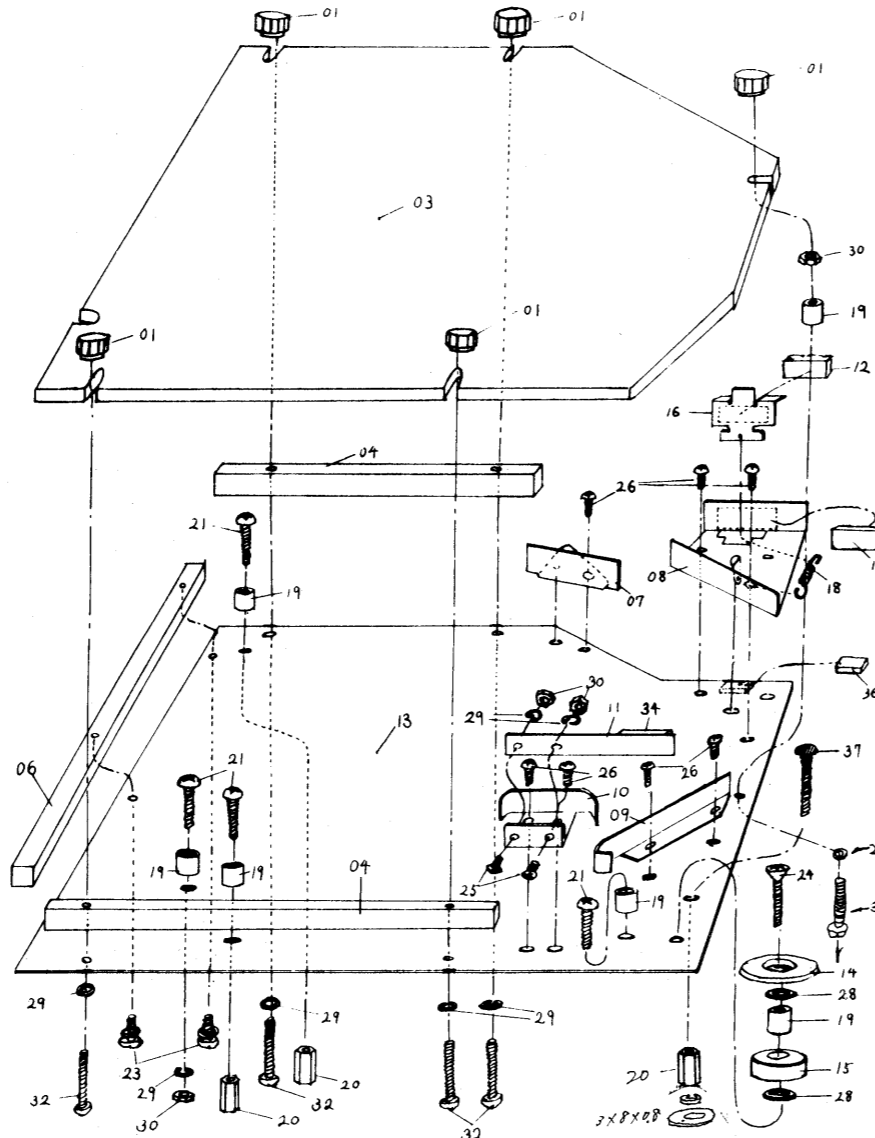
Name	Finish		
	black	chrome	
Frame	no.13	no.7	
Frame	no.14	no.8	
Frame	no.15	no.9	
Frame	no.16	no.10	
Plate	no.28	no.11	

**TAPE PACK**

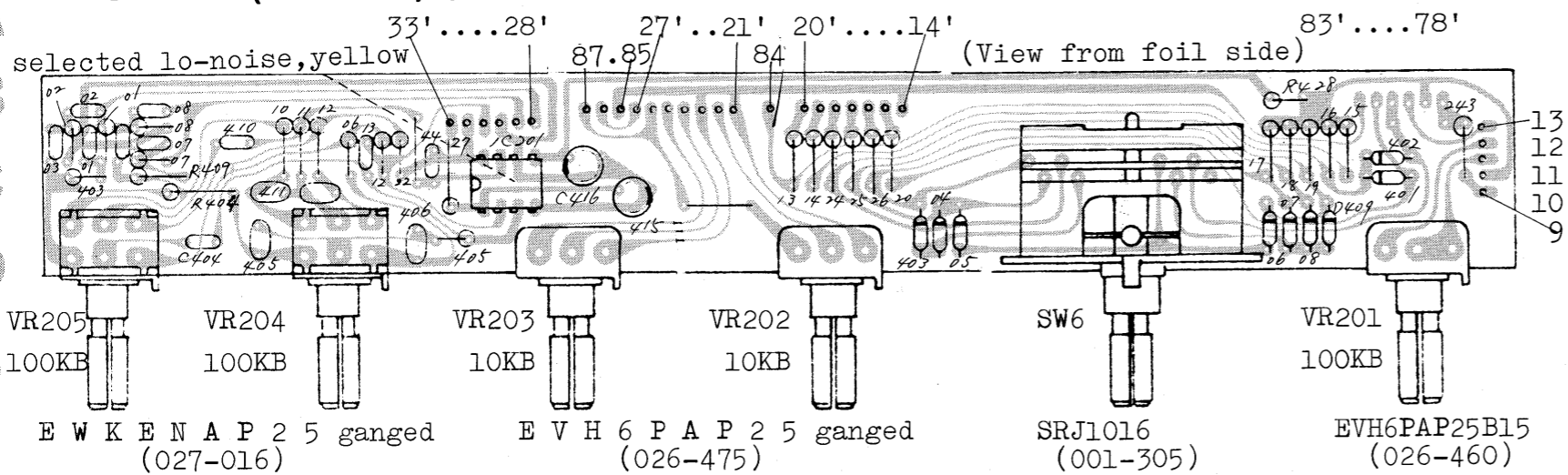
**Build Up Parts List**

**Exploded Illustration**

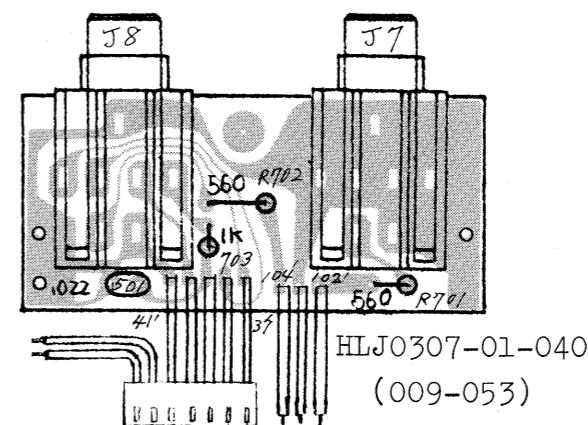
NO.	PART NO.	DESCRIPTION
01	120-036	Face nut no.36
03	092-006	Top cover (acrylic)
04	079-004	Frame no.4
06	079-012	Frame no.12
07	079-013	Frame no.13
08	079-014	Frame no.14
09	079-015	Frame no.15
10	079-016	Frame no.16
11	070-033	Leaf spring no.33
12	101-017	Felt no.17
13	061-063A	Tape chassis no.63A
14	065-113	Roller cover no.113
15	113-004	Bearing no.4
16	063-028	Plate no.28
18	070-018	Spring no.18
19	...	Collar (plastic) 3 x 6mm
20	120-001	Sleeve nut no.1 3 x 10mm
21	Screw	3 x 12mm Bs, Ni
23	Screw	3 x 6mm w/washer (SEMS)
24	Screw	3 x 15mm oval c.sunk
25	Screw	3 x 6mm binding
26	Screw	2.6 x 4mm truss
28	Washer	3 x 8 x 0.3mm plain
29	Washer	3mm dia. spring
30	Nut	3mm dia.
32	Screw	3 x 18mm binding
34	101-026	Felt no.26
36	107-003	Cushion no.3
37	Screw	3 x 15mm black



OP-159A(149-159A) (pcb 052-570A)



OP-160B(149-160B) (pcb 052-578B)



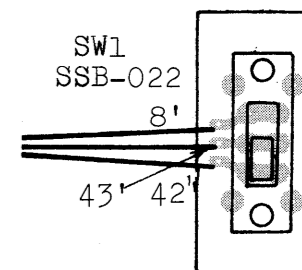
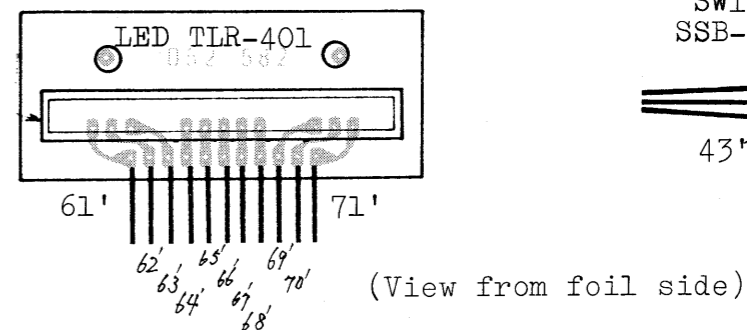
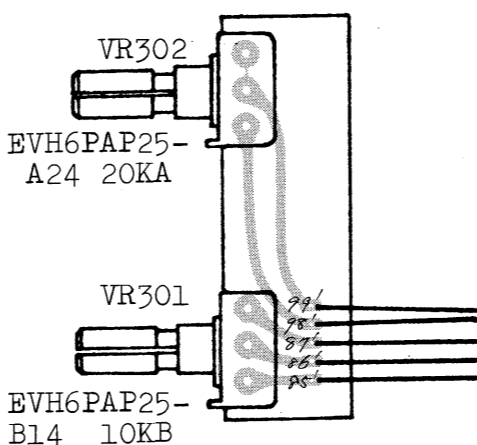
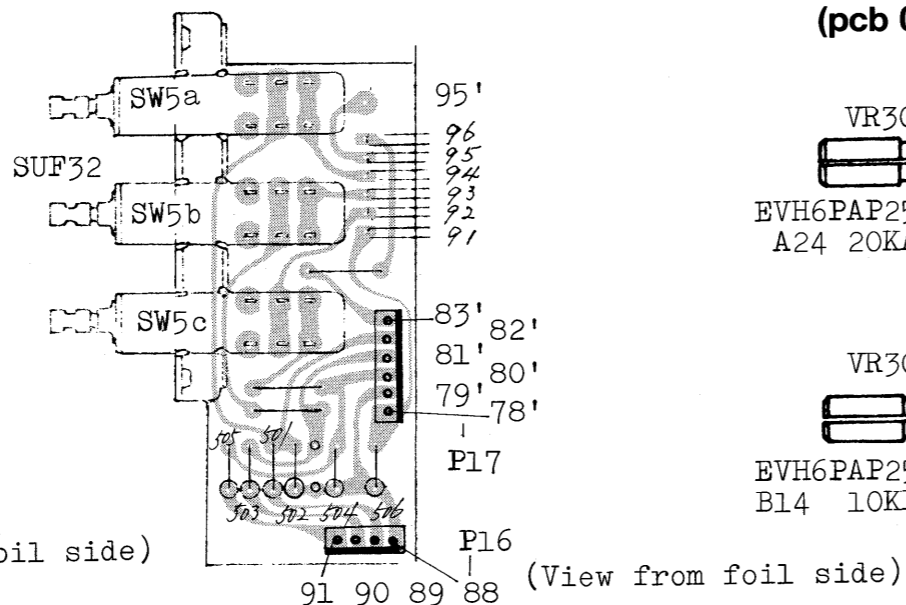
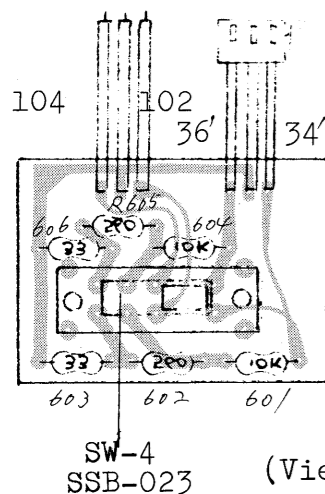
OP-163A(149-163A) (pcb 052-576A)

OP-164(149-164) (pcb 052-571)

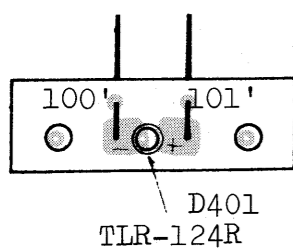
OP-165(149-165) (pcb 052-582)

OP-166(149-166) (pcb 052-574)

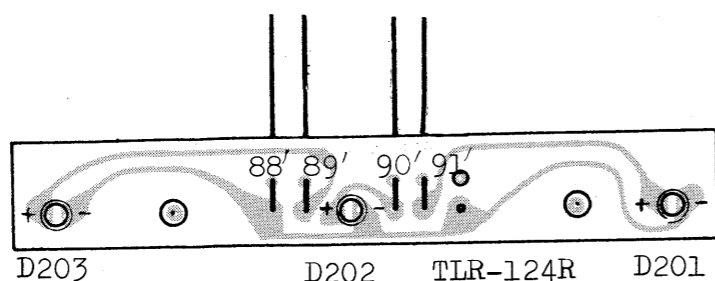
OP-162A(149-162A) (pcb 052-577A)



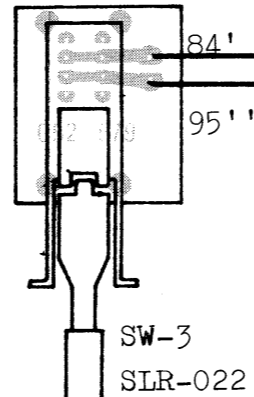
OP-167(149-167) (pcb 052-580)



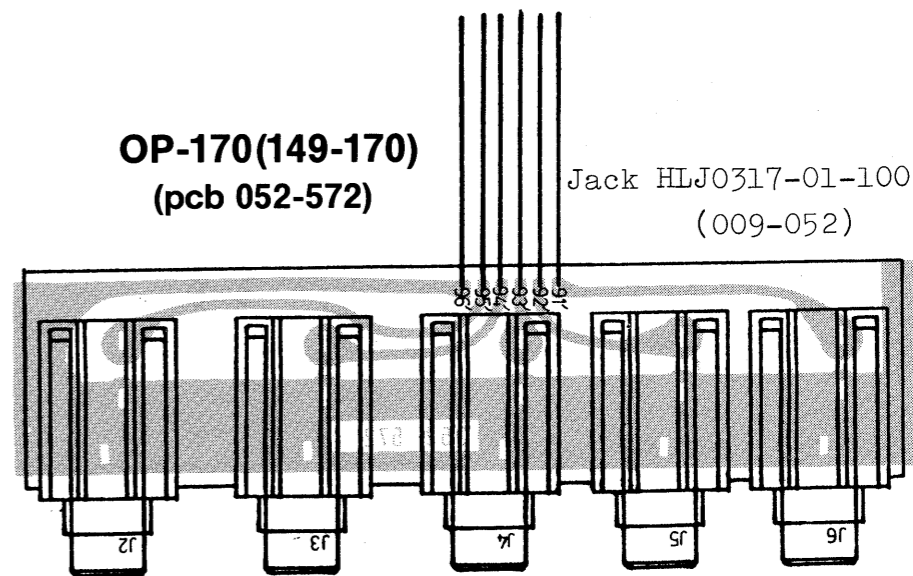
OP-169A(149-169A) (pcb 052-581A)



OP-168(149-168) (pcb 052-579)

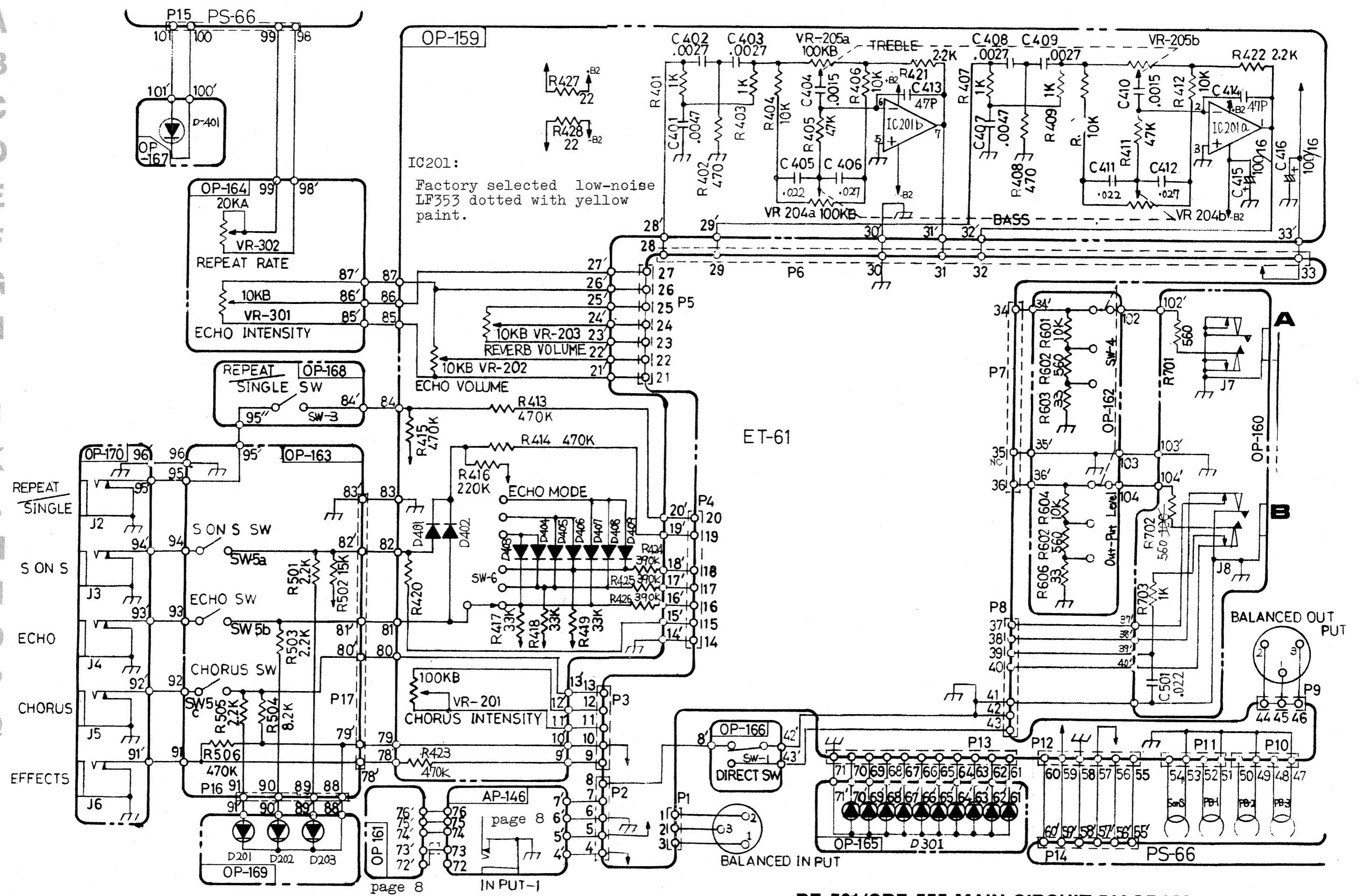


OP-170(149-170) (pcb 052-572)



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

A  
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RE-501/SRE-555 MAIN CIRCUIT DIAGRAM

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

A  
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V

**ET-61B**  
**(151-061B)**  
**(pcb 052-567B)**

S/N up to  
RE501: 951549  
SRE555: 950599

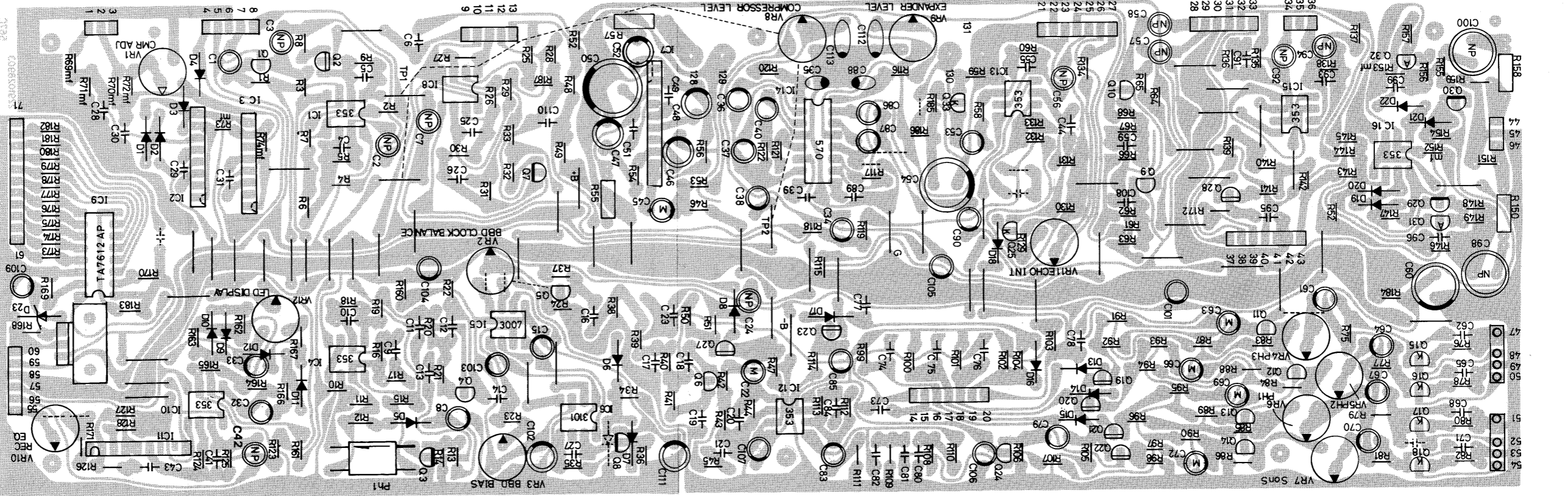
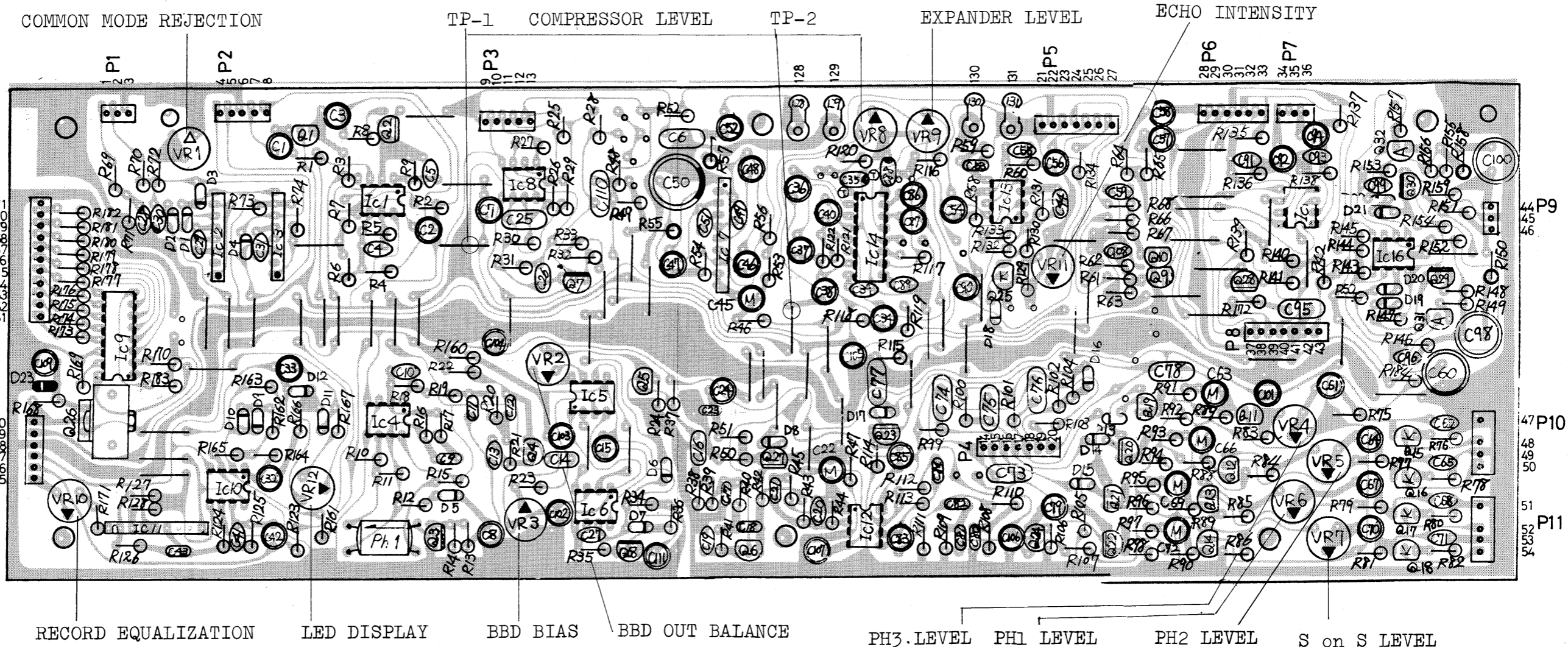
Use ET-61C  
for replacement

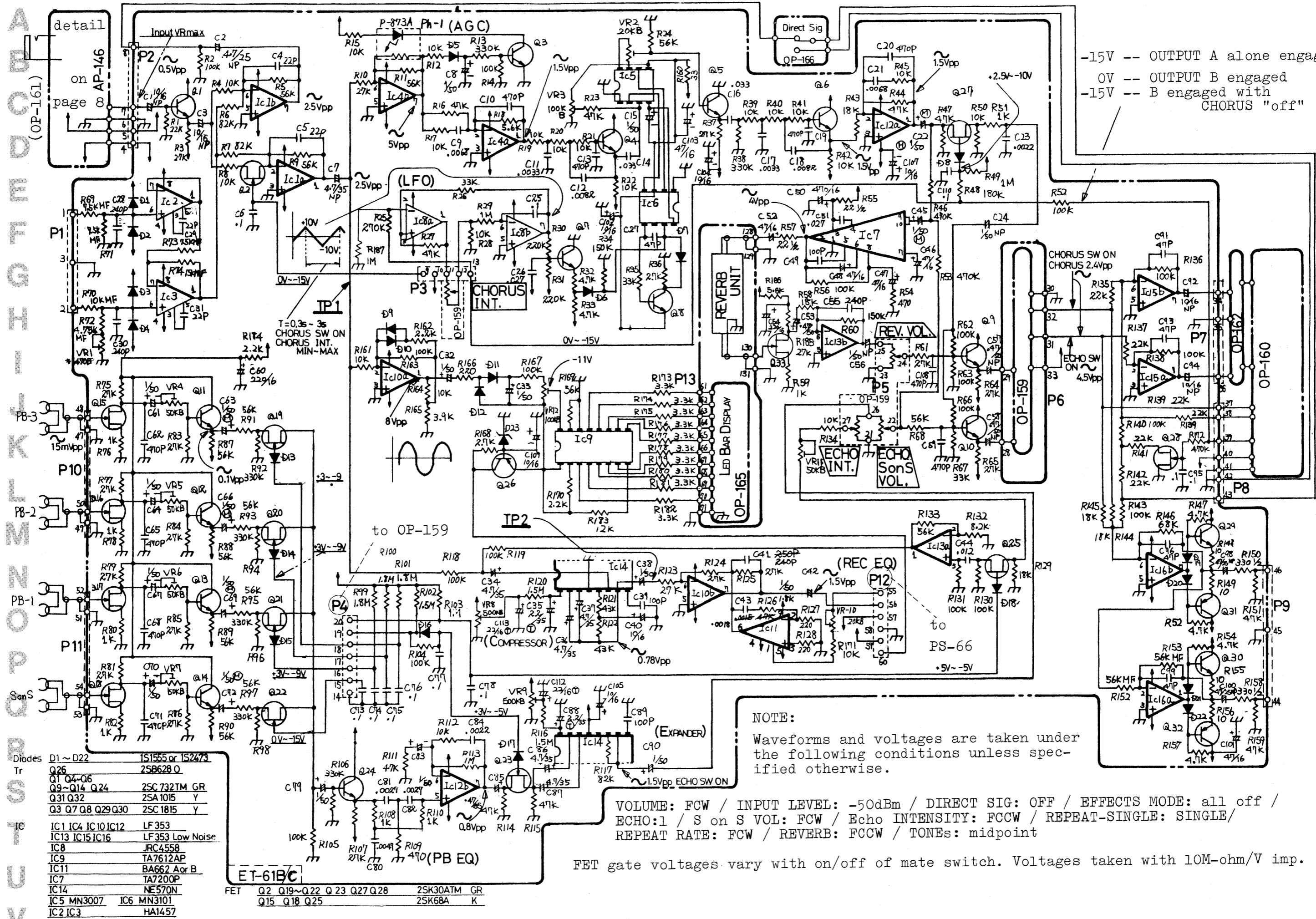
- 2SC732TM-GR
- 2SC1815-Y
- 2SK30ATM-GR
- 2SK68A-K
- 2SA1015-Y
- 1S1588

IC13,15,16  
selected  
low noise,  
yellow dot

**ET-61C**  
**(151-061C)**  
**(pcb 052-267C)**

Serial Number  
with:  
RE501: 961550  
SRE555: 960600





-15V -- OUTPUT A alone engaged  
 0V -- OUTPUT B engaged  
 -15V -- B engaged with CHORUS "off"

NOTE:  
 Waveforms and voltages are taken under the following conditions unless specified otherwise.

VOLUME: FCW / INPUT LEVEL: -50dBm / DIRECT SIG: OFF / EFFECTS MODE: all off /  
 ECHO: 1 / S on S VOL: FCW / Echo INTENSITY: FCCW / REPEAT-SINGLE: SINGLE /  
 REPEAT RATE: FCW / REVERB: FCCW / TONES: midpoint

FET gate voltages vary with on/off of mate switch. Voltages taken with 10M-ohm/V imp.

Diodes D1 ~ D22 1S1555 or 1S2473  
 Tr Q26 2SB628 O  
 Q1 Q4-Q6 2SC732TM GR  
 Q31 Q32 2SA1015 Y  
 Q3 Q7 Q8 Q29 Q30 2SC1815 Y  
 IC IC1 IC4 IC10 IC12 LF353  
 IC13 IC15 IC16 LF353 Low Noise  
 IC8 JRC4558  
 IC9 TA7612AP  
 IC11 BA662 A or B  
 IC7 TA7200P  
 IC14 NE570N  
 IC5 MN3007 IC6 MN3101  
 IC2 IC3 HA1457

FET Q2 Q19-Q22 Q23 Q27 Q28 2SK30ATM GR  
 Q15 Q18 Q25 2SK68A K

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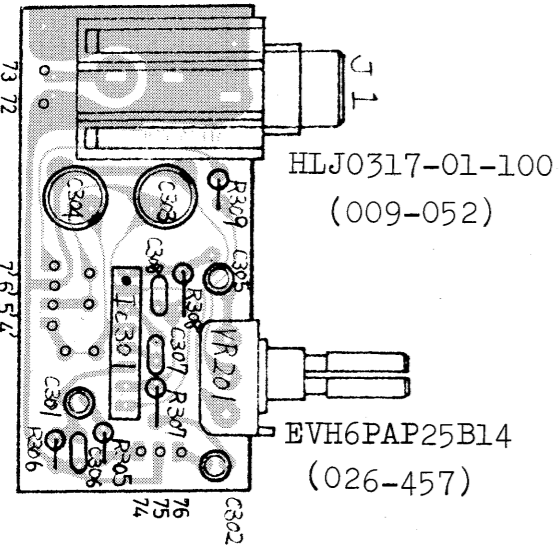
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

A B C D E F G H I J K L M N O P Q R S T U V

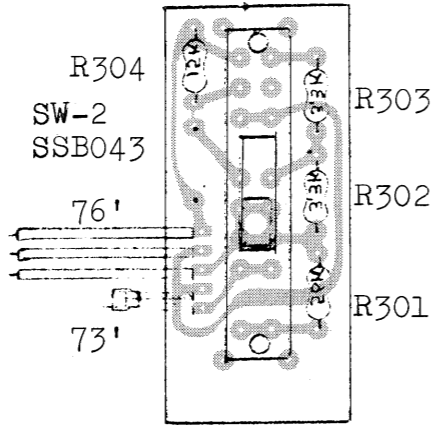
AP-146B(141-146B)  
(pcb 052-573B)

OP-161B(149-161B)  
(pcb 052-575B)

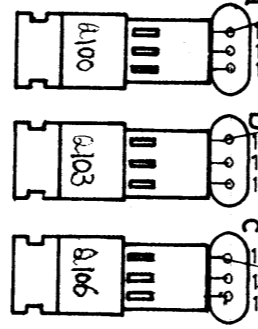
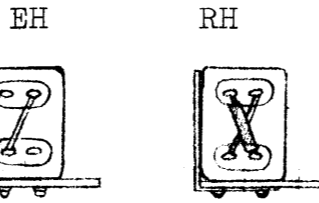
PS-66(146-066) (pcb 052-569)



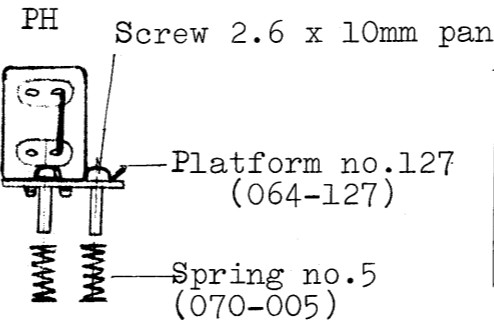
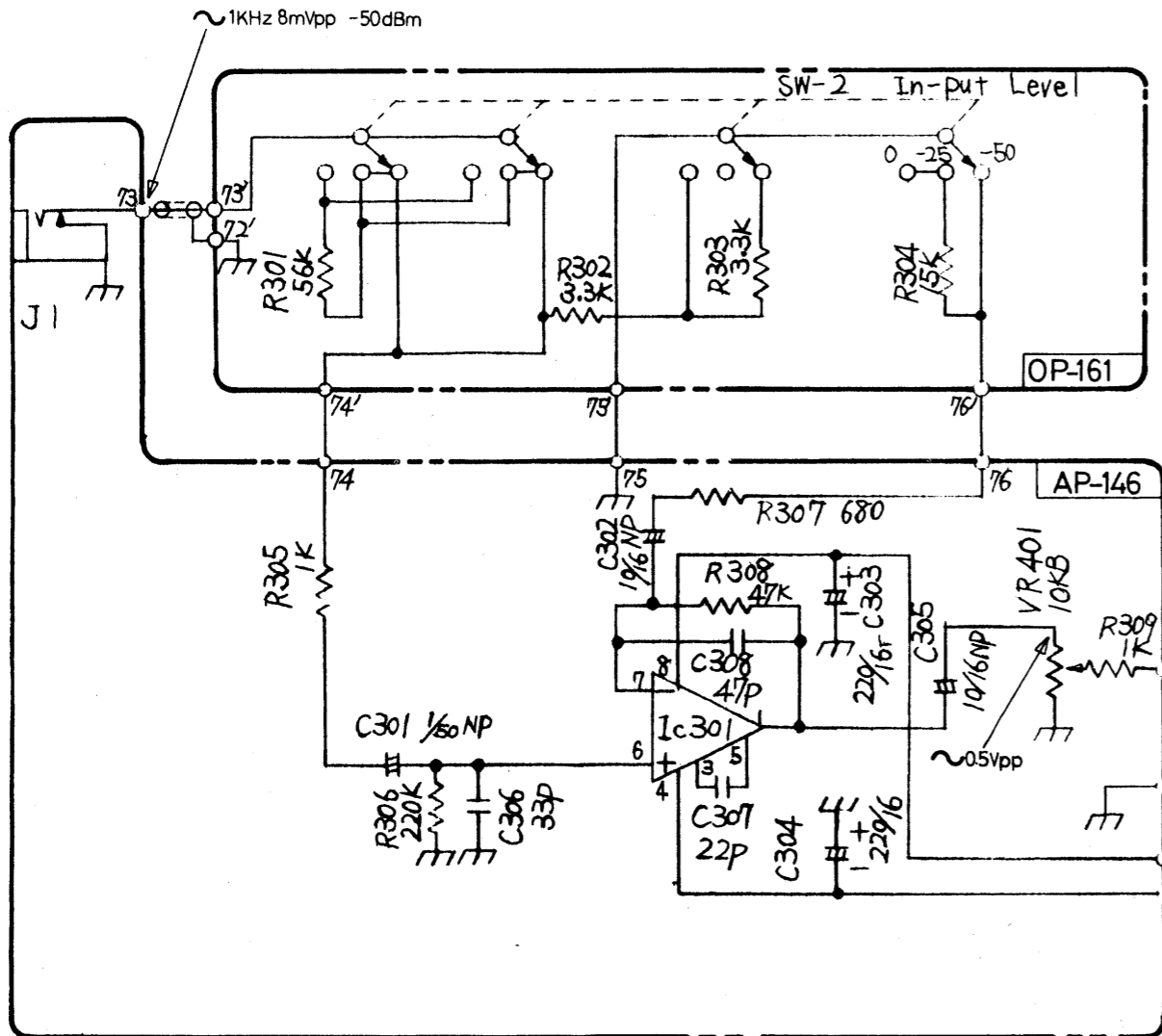
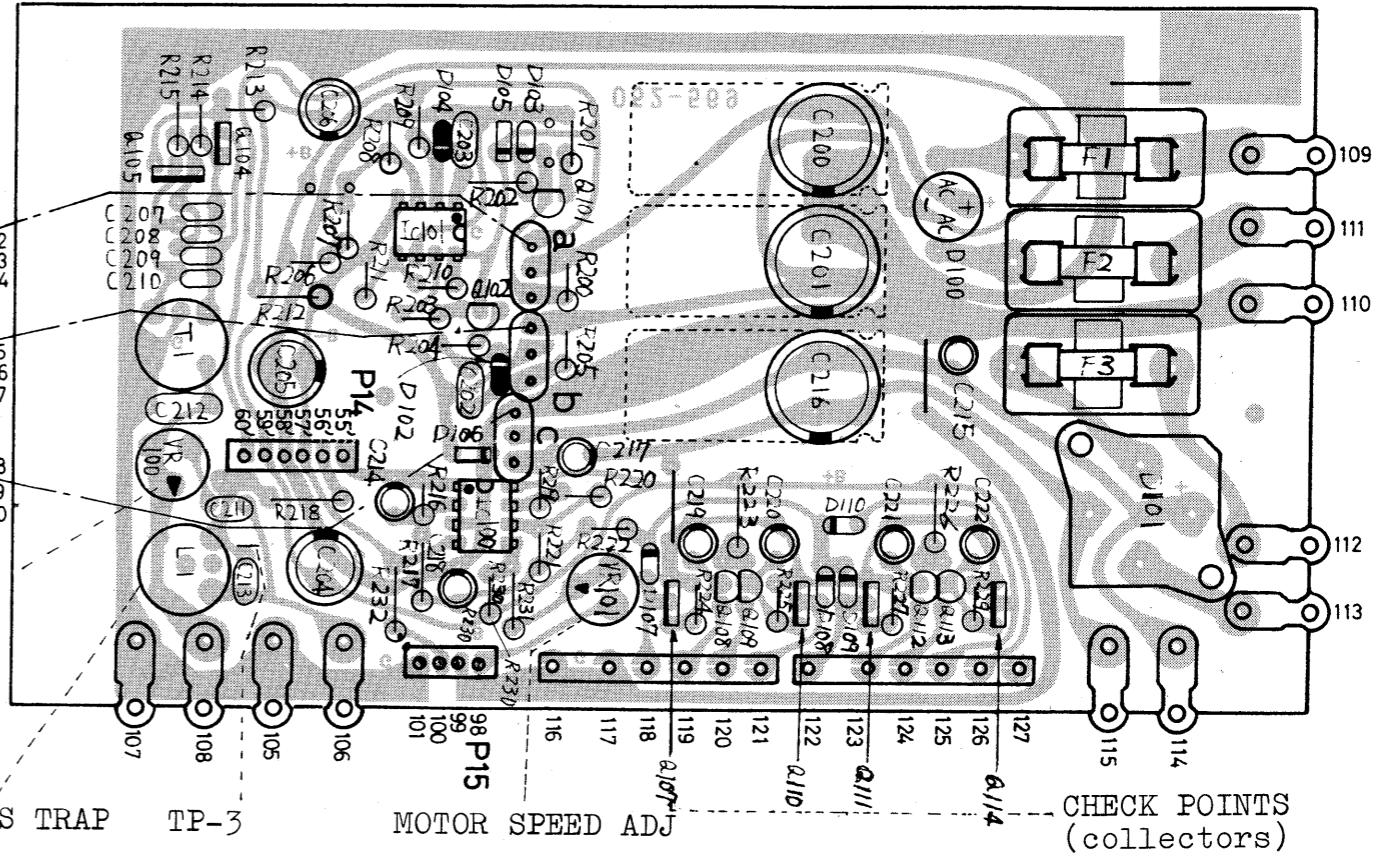
(View from foil side)



HEAD PIN WIRING

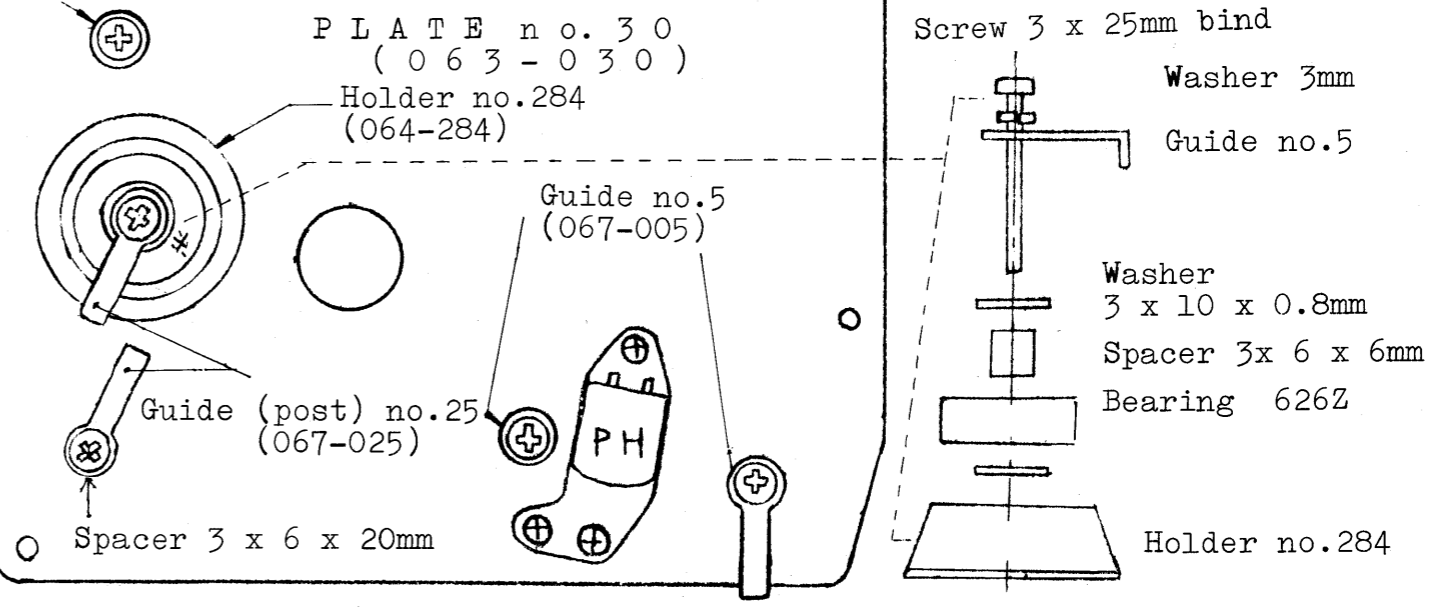


REC. BIAS ADJ.



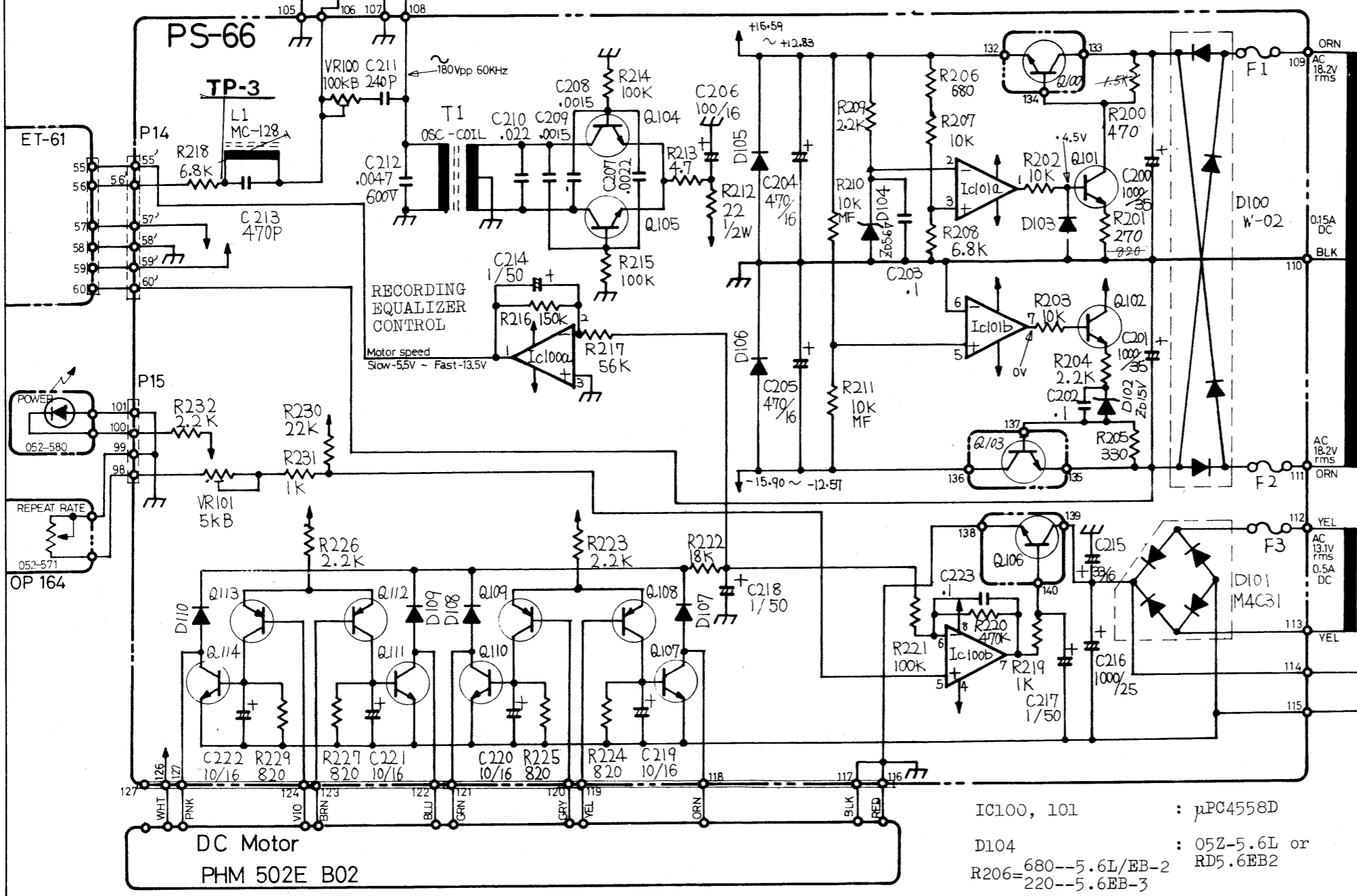
FUSE RATING

	100/117V	220/240V
F1	SGA 1.0A (008-026)	CEE T400mA (008-062)
F2	SGA 1.0A (008-026)	CEE T400mA (008-062)
F3	SGA 2.0A (008-028)	CEE T1.6A (008-069)

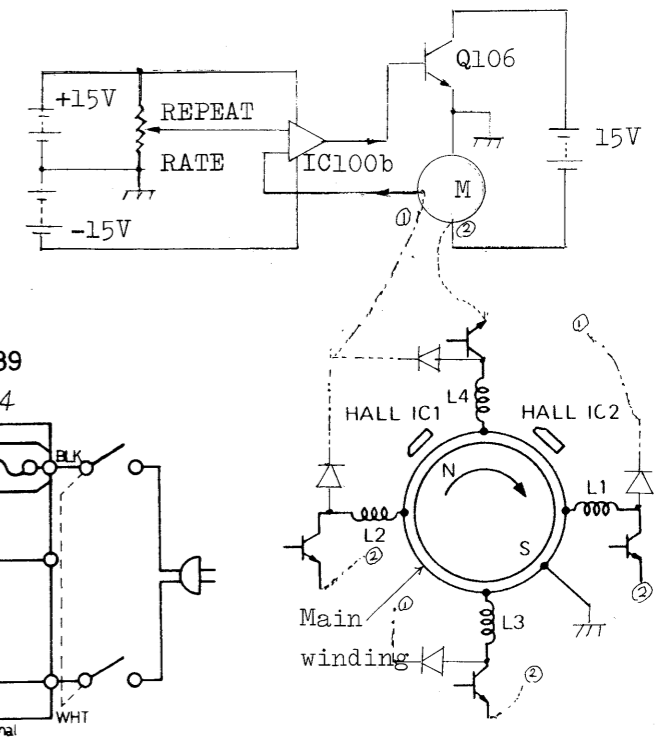




D105, 106 : 1SR-35-200 R. HEAD E. HEAD  
 D107-110 : 1S1555 or 1S2473  
 Q108, 109, 112, 113 : 2SA733- P or Q  
 Q101, 102 : 2SC1815-GR  
 Q103, 106, 100 : 2SD880-Y  
 Q104-105, 107, 110, 111 : 2SD571-L  
 114



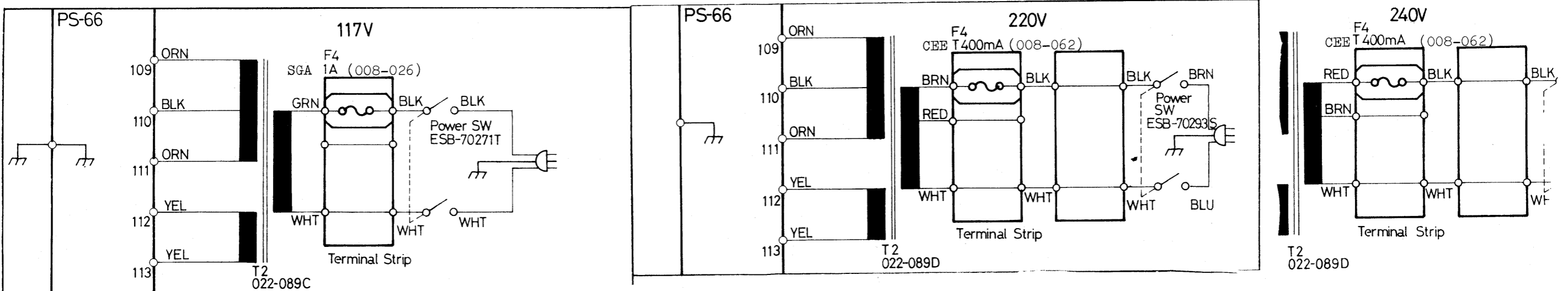
MOTOR SPEED CONTROL



HALL IC MOTOR operates from separate two DC sources.

Switching transistors (Q107, 110, 111, 114), when excited by hall ICs, fire alternately through each L the main winding. Back e.m.f. of L is rectified through D (D107-110), smoothed and is fed to pin 6 of IC100b. IC100b compares back e.m.f. with reference voltage (from REPEAT RATE CONTROL) and the consequent output of IC100b varies Q106 base bias to control the current flowing into the main winding.

IC100, 101 :  $\mu$ PC4558D  
 D104 : 05Z-5.6L or 680--5.6L/EB-2 RD5.6EB2  
 R206= 220--5.6EB-3



**ADJUSTMENT AND CHECKING**

**1. MECHANICAL ADJUSTMENT**

**1-1. TAPE CHASSIS POSITION**

Position tape chassis 1mm off motor shaft and secure it by tightening two screws at rear.

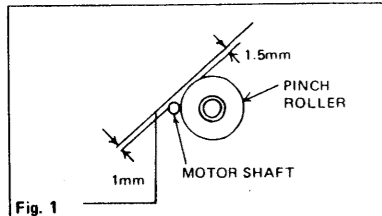


Fig. 1

**1-2. TAPE CHASSIS HEIGHT**

Position chassis  $10.5 \pm 0.5$ mm above main chassis.

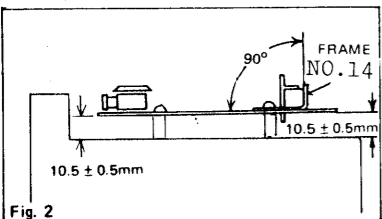


Fig. 2

**1-3. LEAF SPRING PRESSURE**

Position frame no.16 to have spring contact with bearing at 25-30g.

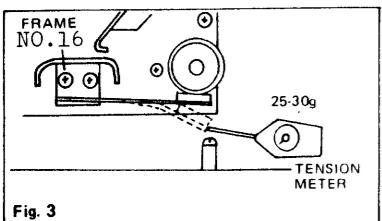
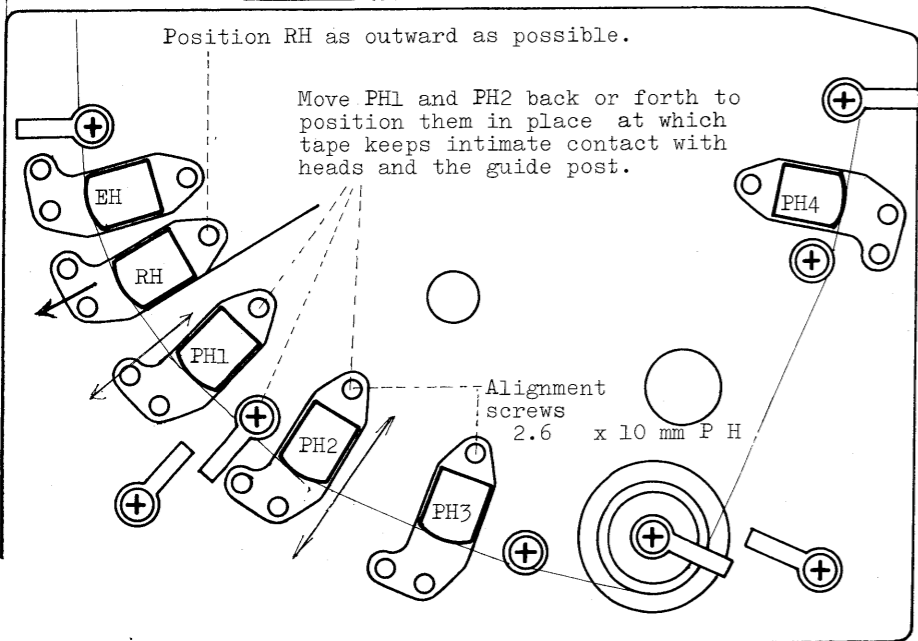


Fig. 3



**1-4. FRAMES 13,14 & 15 POSITIONS**

While engaging pinch roller with motor shaft, position and fix frames as indicated below.

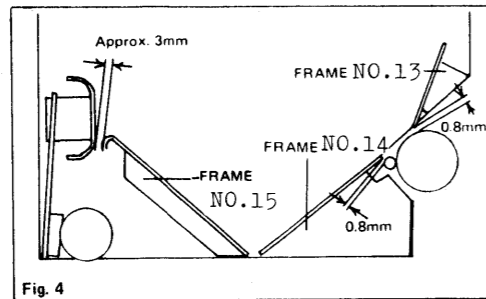


Fig. 4

**1-5. PINCH ROLLER PRESSURE**

Position solenoid for 1.1-1.25kg pinch roller pressure.

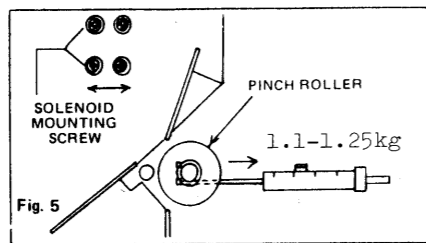


Fig. 5

**1-6. HEADS ALIGNMENT**

Position each head gap perpendicular to and center on the passing tape by turning alignment screws.

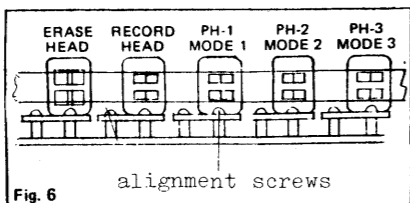


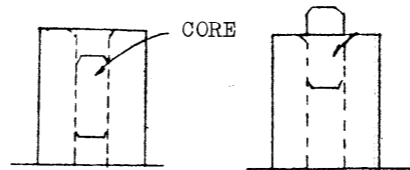
Fig. 6

**2. ELECTRICAL ADJUSTMENT**

**2-1. BIAS LEAKAGE TRAP**

- PS-66 -

CONTROL PANEL		INPUT VOLUME	REPEAT SINGLE SWITCH
POTENTIOMETER NO.	CHECK POINT		
TRAP COIL	TP 3	MIN	SINGLE



FUNDAMENTAL 2nd HARMONIC

Set VR100 at its midpoint. Connect VTVM or scope to TP-3.

- a) Turn L1 core, with appropriate tool, for minimum reading (should not be more than 1V rms).

Continuous turning will dip the meter reading twice -- at fundamental and at 2nd harmonic. Tune L1 to fundamental.

**2-2. MOTOR SPEED**

- PS-66 -

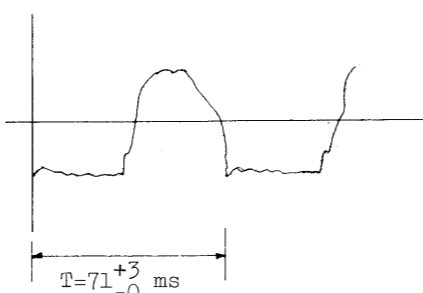
CONTROL PANEL		REPEAT RATE
POTENTIOMETER NO.	CHECK POINT	
VR101	Q107 Q110 Q111 Q114 COLLECTOR	MIN

Scope (DC couple, negative slope, normal) : one of the check points.

- a) Set VR101 for the T shown in the figure below.

Time base should be triggered at the lowest negative peaks.

T should not be longer than 23ms with REPEAT RATE set at FCW position when the machine is operating on the rated line voltage.



**2-3. LED BAR DISPLAY**

- ET-61 -

CONTROL PANEL		INPUT VOLUME	INPUT LEVEL SWITCH
POTENTIOMETER NO.	CHECK POINT		
VR12	LED BAR DISPLAY	MAX	0dB

Input signal: 1kHz, sine wave, +2dBm, into INPUT-2 jack.

- a) Turn VR12 FCW; then reverse it slowly until BAR displays +2dB.
- b) Make sure that LEDs read -12dB under the following settings:

INPUT SIGNAL	INPUT LEVEL SWITCH
INPUT-1	-8dBm
INPUT-2	-12dBm
	-37dBm
	-62dBm
	0dB
	-25dB
	-50dBm

**2-4. COMMON MODE REJECTION**

CONTROL PANEL		INPUT VOLUME	INPUT DIRECT LEVEL SIGNAL SWITCH
POTENTIOMETER NO.	CHECK POINT		
VR 1	OUT PUT A	MIN	ON

EFFECT MODE SWITCH	ECHO SENS INTENSITY	REVERB VOLUME	REPEAT RATE	CHORUS	ECHO	5 on 5	REVERB VOLUME	CHORUS	ECHO	5 on 5	TONE BASS	TREBLE	OUTPUT LEVEL SWITCH
OFF	OFF	OFF	MIN	MIN	MIN	MIN	MIN	MIN	MIN	MIN	MIN	MIN	0dBm

Input signal: 1kHz, sine wave, +4dBm into INPUT-1 jack with its pins 2 and 3 joined. Oscilloscope: OUTPUT-A.

- a) Adjust VR1 for minimum 1kHz signal output.

**2-5. COMPRESSOR LEVEL**

CONTROL PANEL		INPUT VOLUME	INPUT LEVEL SWITCH	REPEAT SINGLE SWITCH
POTENTIOMETER NO.	CHECK POINT			
VR8	TP 1 TP 2	MAX	0dB	SINGLE

Input signal: 1kHz, sine wave, INPUT-2.

- a) Set audio generator for  $-40 \pm 0.1$ dBm reading on millivoltmeter at TP-1.
- b) Adjust VR8 for -34.5dBm reading at TP-2. Distributed meter lead capacitance should be less than 100pF.

**2-6. HEAD ALIGNMENT**

The following adjustments must be done only after completion of MECHANICAL ADJUSTMENTS.

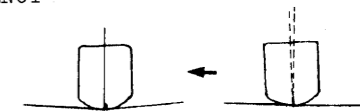
CONTROL PANEL		INPUT VOLUME	INPUT LEVEL SWITCH	DIRECT SIGNAL SWITCH	EFFECT MODE SWITCH	CHORUS	ECHO	5 on 5
POTENTIOMETER NO.	CHECK POINT							
	OUT PUT A	MAX	—	OFF	OFF	ON	OFF	ON

ECHO SENS VOLUME	ECHO SENS INTENSITY	REPEAT RATE	REVERB VOLUME	TONE BASS	TREBLE	OUTPUT LEVEL SWITCH	REPEAT SINGLE SWITCH
MAX	—	CENTER	MIN	CENTER	CENTER	—	SINGLE

**2-6-1. Fine Alignment**

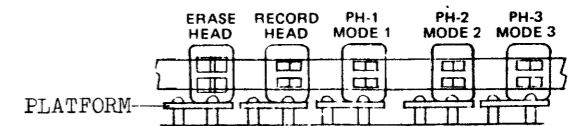
Take visual head examination for misalignment referring to the figures below. Readjust as necessary.

**(a) TANGENCY**



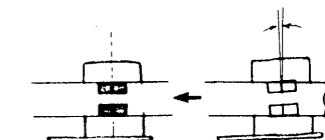
The faces of the head cores must be simultaneously tangent to the same degree with the tape.

**(b) HEIGHT**



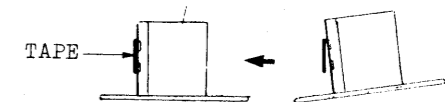
Every gap-width dimension is centered on the same track location.

**(c) AZIMUTH**



Width dimension of the head gap is a precise 90-degree angle to the tape edge.

**(d) TILT**



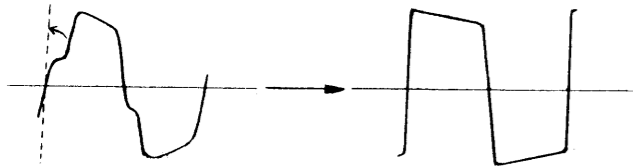
The tape must contact with head surface precisely in parallel.

2-6-2. Playback heads

Input signal: 1kHz, square, for 0dB LED display.  
Panel controls setting: as shown at the left.

a) With ECHO MODE selected to corresponding head, adjust playback head for the following:

- (1) Waveform slope is straightened.
- (2) Leading edge is as perpendicular to base line as possible or has shortest rise time.



b) Readjusting TANGENCY described in(a) of 2-6-1 at this step may prove effective to obtain waveform stability.

Output level differences among playback heads are to be compensated for in later section.

2-7. EXPANDER

CONTROL PANEL		INPUT VOLUME	INPUT LEVEL SWITCH	DIRECT SIGNAL SWITCH	EFFECT MODE SWITCH		
POTENTIOMETER NO.	CHECK POINT				CHORUS	ECHO	S on S
VR6 VR9 VR100	OUTPUT A	MAX	—	OFF	OFF	ON	OFF

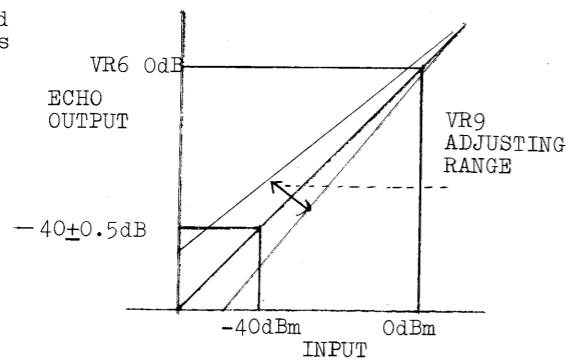
ECHO S on S VOLUME	ECHO S on S INTENSITY	REPEAT RATE	REVERB VOLUME	TONE		OUTPUT LEVEL SWITCH	REPEAT SINGLE SWITCH
				BASS	TREBLE		
MAX	—	—	MIN	CENTER	CENTER	0dBm	SINGLE

Input signal: 1kHz, sine wave for 0dB reading on LED bar.  
ECHO MODE: 1

- a) Set VR100 on PS-66 for maximum meter reading at OUTPUT A.
- b) Set VR6 for 0dBm+3dBm reading on the meter.
- c) Decrease audio generator output by 40dBm.
- d) Adjust VR9 so that the meter reads 40±0.5dB lower than that at step b.

As can be seen from the figure below, VR9, when turned, will deviate input-output curve at point which preadjusted by VR6.  
d) Repeat steps b-d for specified results.

This input-output curve has pronounced effect on smoothness of level decrease ratio of multiple echo sounds and residual noise. The curve should be as linear as possible.



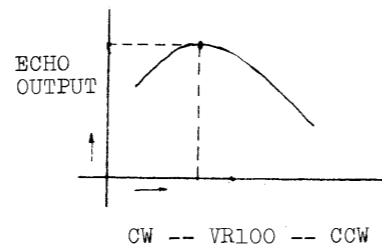
2-8. RECORDING BIAS

CONTROL PANEL		INPUT VOLUME	INPUT LEVEL SWITCH	DIRECT SIGNAL SWITCH	EFFECT MODE SWITCH		
POTENTIOMETER NO.	CHECK POINT				CHORUS	ECHO	S on S
VR 100	OUTPUT A	MAX	0dB	OFF	OFF	ON	OFF

ECHO S on S VOLUME	ECHO S on S INTENSITY	REPEAT RATE	REVERB VOLUME	TONE		OUTPUT LEVEL SWITCH	REPEAT SINGLE SWITCH
				BASS	TREBLE		
MAX	—	CENTER	MIN	CENTER	CENTER	—	SINGLE

Input signal: 1kHz, sine wave, 0dBm to INPUT-2.

- a) Turn VR100 FCW. Reversing it gradually, find the point which furnishes the highest output.
- b) Set VR100 for ±1dB of the peak value.



2-9. PLAYBACK EQUALIZER

CONTROL PANEL		INPUT VOLUME	INPUT LEVEL SWITCH	DIRECT SIGNAL SWITCH	EFFECT MODE SWITCH		
POTENTIOMETER NO.	CHECK POINT				CHORUS	ECHO	S on S
VR6 VR 10	OUTPUT A	MAX	0dB	OFF	OFF	ON	OFF

EFFECT MODE SWITCH		ECHO S on S VOLUME	ECHO S on S INTENSITY
CHORUS	ECHO	S on S	INTENSITY
OFF	ON	OFF	MAX

REPEAT RATE	REVERB VOLUME	TONE		OUTPUT LEVEL SWITCH	REPEAT SINGLE SWITCH
		BASS	TREBLE		
CENTER	MIN	CENTER	CENTER	0dBm	SINGLE

Input signal: 1kHz, sine wave, 0dBm to INPUT-2 jack.

ECHO MODE: 1

- a) Adjust VR6 for 0dBm reading at OUTPUT A.
- b) Reset audio generator for 10kHz, 0dBm.
- c) Set VR10 for -15dBm +1.5dBm -3dBm reading at OUTPUT A.

If VR10 fails to produce this output, readjust VR100 together with VR10 at 10kHz.

2-10. PLAYBACK HEAD SENSITIVITY

CONTROL PANEL		INPUT VOLUME	INPUT LEVEL SWITCH	DIRECT SIGNAL SWITCH	EFFECT MODE SWITCH		
POTENTIOMETER NO.	CHECK POINT				CHORUS	ECHO	S on S
VR4 VR5 VR6 VR7	OUTPUT A	MAX	0dB	OFF	OFF	ON	OFF

ECHO S on S VOLUME	ECHO S on S INTENSITY	REPEAT RATE	REVERB VOLUME	TONE		OUTPUT LEVEL SWITCH	REPEAT SINGLE SWITCH
				BASS	TREBLE		
MAX	—	MAX	MIN	CENTER	CENTER	0dBm	SINGLE

Input signal: 1kHz, sine wave, 0dBm into INPUT 2 jack.

To obtain equal echo outputs in sound level,

- a) adjust each trimmer potentiometer for 0dBm+0.5dB -0dBm reading at OUTPUT A jack.

ECHO MODE	TRIMMER POT
1	VR4
2	VR5
3	VR6
S on S	VR7

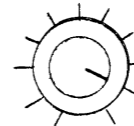
2-11. ECHO INTENSITY

CONTROL PANEL		INPUT VOLUME	INPUT LEVEL SWITCH	DIRECT SIGNAL SWITCH	EFFECT MODE SWITCH		
POTENTIOMETER NO.	CHECK POINT				CHORUS	ECHO	S on S
VR 11	OUTPUT A	MAX	0dB	OFF	OFF	ON	OFF

ECHO S on S VOLUME	ECHO S on S INTENSITY	REPEAT RATE	REVERB VOLUME	TONE		OUTPUT LEVEL SWITCH	REPEAT SINGLE SWITCH
				BASS	TREBLE		
MAX	—	MAX	MIN	—	—	—	REPEAT

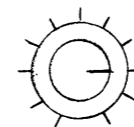
Input signal: 1kHz, sine wave, 0dBm into INPUT 2 jack.

- a) Rotate ECHO/S on S knob to 10th point from FCCW.



- b) Feed the signal for a short period (0.5-2s). Adjust VR11 for finite echo repetition or oscillation.

- c) Reverse the knob to 9th point. Echo sound should die away gradually.



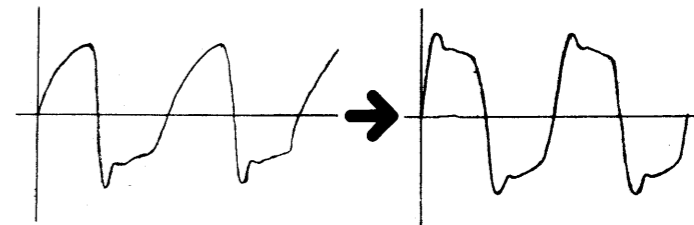
2-12. BBD BIAS (CHORUS)

CONTROL PANEL		INPUT VOLUME	INPUT LEVEL SWITCH	DIRECT SIGNAL SWITCH	CHORUS	
POTENTIOMETER NO.	CHECK POINT				INTENSITY	CHORUS
VR 2 VR 3	OUTPUT A	MAX	-25dBm	OFF	MIN	

EFFECT MODE SWITCH		REVERB VOLUME	TONE		OUTPUT LEVEL SWITCH	REPEAT SINGLE SWITCH
CHORUS	ECHO	S on S	BASS	TREBLE		
ON	OFF	OFF	MIN	CENTER	CENTER	—

Input signal: 1kHz, rectangular, 0.3Vp-p into INPUT 2 jack.

- a) Rotate VR2 to its midpoint.
- b) Set VR3 for chorus output waveform symmetrical to the base line of scope.

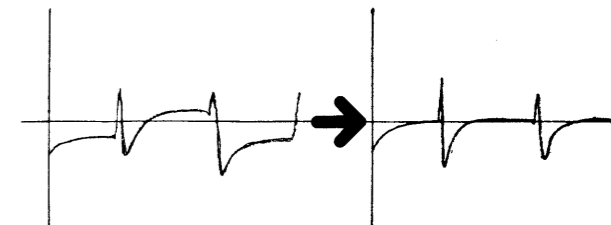


2-13. CLOCK COMPONENT REDUCTION

CONTROL PANEL		INPUT VOLUME	INPUT LEVEL SWITCH	DIRECT SIGNAL SWITCH	CHORUS INTENSITY	EFFECT CHORUS
POTENTIOMETER NO.	CHECK POINT					
VR 2 VR 3	Q5 BASE	MIN	—	—	—	OFF

Scope's distributed lead capacitance should not be more than 47pF.

- a) Adjust VR2 for minimum discrepancy in amplitude between clock pulses on the base line.
- b) Adjustments 2-12 and 2-13 are inter-related. Repeat both adjustments for the best result.



**PARTS LIST**

**CABINET. PANEL**

**RE501**

081-135 Cabinet no.135  
 086-019 Cabinet (upper) no.19  
 108-004 Handle H-15  
 111-030 Rubber foot G-9  
 111-021 Rubber foot G-5  
 115-002 Hinge no.2  
 072-299 Panel (front) no.299  
 065-289 Panel cover no.289  
 grey, back of front panel  
 073-024 Spacer no.24  
 chassis-cabinet, side

**SRE555**

072-311 Panel (front) no.311  
 065-292 Cover (top panel) no.292  
 065-294 Cover (left hand) no.294  
 065-293 Cover (right hand) no.293  
 065-291 Cover (bottom) no.291  
 065-296 Cover no.296  
 back of front panel  
 108-022 Handle no.22  
 067-034 Guide no.34 right hand  
 067-033 Guide no.33 left hand  
 067-035 Guide no.35 rail L.hand  
 067-036 Guide no.36 rail R.hand  
 066-054 Case no.54 outer  
 064-289 Holder no.289  
 070-062 Leaf spring no.62  
 12170703 Roller no.12170703  
 111-023 Rubber foot G-7  
 123-016 Decoration screw no.16

\*ref.p-2 for detail

**SWITCH. KNOB**

Switch  
 13129113 ESB70226 power 100V  
 13129114 ESB70271T power 117V  
 13129115 ESB70293S power 220/240V  
 001-305 SRJ-1016 rotary  
 001-266 SLR-02239 lever  
 001-304 SSB-04303 slide INPUT  
 001-205 SSB-02303 slide OUTPUT  
 001-182 SSB-02242 slide DIRECT  
 001-306 SUF-32A19 push

Knob  
 016-103 No.103 rotary switch  
 016-078 No.78 pots.  
 016-085 Button no.85 white  
 016-009 Button no.9 blk(SRE555)

**SEMICONDUCTOR**

Transistor  
 017-139 2SD880-Y  
 017-077 2SB628-R  
 017-258 2SD571-L  
 017-103 2SC732TM-GR  
 017-024 2SA733- P or Q  
 017-106 2SC1815- GR or Y  
 017-116 2SA1015-Y  
 017-081 2SK68A-K FET  
 017-014 2SK30ATM-GR FET  
 Diode  
 018-014 1S2473  
 018-082 W-02  
 018-093 M4C31  
 018-101 1SR-35-200  
 15019654 RD16EB-2 zener  
 15019525 RD5.6B-2 zener  
 or 05Z5.6L  
 (RD5.6B-3 can be a replacement  
 with the resistor value changed,  
 see PS-66 circuit diagram.)

019-028 TLR-124 red LED  
 019-033 TLR-401 10-segment LED BAR  
 019-011 P873A red or white  
 photocoupler

IC  
 020-028 TA-7200P  
 020-208 LF353N  
 020-071 JRC- or  $\mu$ PC- 4558D  
 020-160 BA-662- A or B  
 020-213 MN3007 BBD  
 020-224 MN3101 BBD driver  
 020-226 TA7612AP LED BAR driver  
 020-098 NE570N compander  
 020-080 HA1457 pre amp  
 020-208S LF353N selected,yellow

**POTENTIOMETER**

026-457 EVH6PAP25B14  
 026-460 EVH6PAP25B15  
 027-016 EWKENAP25B15 dual, ganged  
 026-447 EVH6PAP25A24  
 028-003 EVTR4AA 5K trimmer  
 028-004 EVTR4AA 10K trimmer  
 028-005 EVTR4AA 20K trimmer  
 028-006 EVTR4AA 50K trimmer  
 028-007 EVTR4AA 100K trimmer  
 13299547 CR19R 220 trimmer  
 030-487 CR19R 470 trimmer

**SOCKET. CONNECTOR**

009-052 HLJ1317-01-100  
 or HLJ0317-01-100  
 009-053 HLJ1317-01-040  
 or HLJ0317-01-040  
 \*Type 1317 countersunk  
 opening, used on later  
 products.  
 010-263 NC-3FP or HA16PR-3S  
 female  
 010-264 NC-3MP or HA16R3P  
 male

**PRINTED CIRCUIT BOARD**

141-146B AP-146B (pcb 052-573B)  
 146-066 PS-66 (pcb 052-569)  
 149-159A OP-159A (pcb 052-570A)  
 149-160B OP-160B (pcb 052-578B)  
 149-161B OP-161B (pcb 052-575B)  
 149-162A OP-162A (pcb 052-577A)  
 149-163A OP-163A (pcb 052-576A)  
 149-164 OP-164 (pcb 052-571)  
 149-165 OP-165 (pcb 052-582)  
 149-166 OP-166 (pcb 052-574)  
 149-167 OP-167 (pcb 052-580)  
 149-168 OP-168 (pcb 052-579)  
 149-169A OP-169A (pcb 052-581A)  
 149-170 OP-170 (pcb 052-572)  
 151-061C ET-61C (pcb 052-567C)  
 \* direct replacement for  
 ET-61 A/B

**TRANSFORMER. COIL**

022-095 Osc coil MC126-2141  
 022-045 Trap coil MC-128  
 022-089N Transformer PT89N 100V  
 022-089C PT89C 117V  
 022-089D PT89D 220/240V

**FUSE. FUSE HOLDER**

008-026 SGA 1.0A F1,2,4 100/117V  
 008-028 SGA 2.0A F3 100/117V  
 008-062 CEE T400mA F1,2,4 220/240V  
 008-069 CEE T1.6A F3 220/240V  
 012-003 Clip TF-758 sec.  
 012-018 Clip X-N1153 prim.

SOME PARTS DESIGNATED  
 IN NEW NUMBERINGS

**HEAD. DRIVINGS**

049-003 Record head R-280MR  
 049-004 Playback head R-280MP  
 049-001 Erase head AE-28  
 065-118 Shield no.118 R.Head  
 064-127 Platform no.127  
 070-005 Spring no.5 alignment  
 063-030 Plate no.30 platform mount  
 065-286 Cover no.286 above heads  
 067-005 Tape guide no.5 (post)  
 067-025 Guide no.25 L shape  
 112-001 Pinch roller no.1  
 068-006 Cover no.6 pinch roller  
 101-001 Shaft no.1 pinch roller  
 064-284 Holder no.284  
 (guide bearing base)  
 113-004 Bearing 626ZZC2  
 (guide bearing)  
 \* See page 8 for detail.  
 050-006 Motor PHM-502E-B02  
 065-106 Cover no.106 motor  
 120-037 Nut no.37 motor mount

\*PARTS ON TAPE CHASSIS PAGE 3

**Arm. Solenoid**

171-001 Arm unit assy AU-1  
 069-009 Shaft no.9 AU-1 mount  
 050-004 DC solenoid MD1811R  
 070-032A Spring no.32A  
 070-007 Spring no.7  
 070-022 Spring no.22  
 123-006 Screw no.6 plunger adjust

\* detail ref. pp.2-3.

040-001 Reverb unit Z-3F  
 064-040 Bracket no.40 PS-66 mount  
 064-283 Bracket no.283 PS-66 mount

064-033 PCB holder LCB-4N  
 (rocker rivet)

**CHASSIS**

061-302-1 No.302-1 main  
 061-302-2 No.302-2 front  
 061-303 No.303 pot(tone) shield  
 061-304 No.304 head amp shield