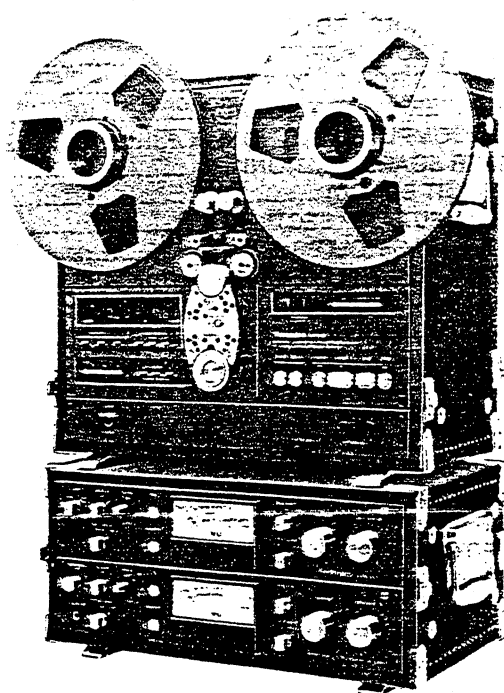


Service Manual

Open Deck
RS-1800

Quartz-Locked "Isolated Loop" Three-Motor Direct-Drive
Open-Reel Tape Deck with Quartz Synthesizer Pitch
Control and Automatic Adjustments of Bias and Equalization



Professional Series

RS-1500 MECHANISM SERIES

Technics

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

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Specifications of Model No. RS-1800

Transport

Tape width:	6.3 mm																								
	1.75mm track width (2-track)																								
	1.00mm track width (4-track)																								
Channel and track:	2-track 2-channel recording/reproduce and 4-track 2-channel reproduce																								
Head system:	4-head system																								
	1-SX (Sendust Extra) head for 2-track recording																								
	1-SX head for 2-track reproduce																								
	1-SX head for 4-track reproduce																								
	1-double-gap ferrite head for erasing																								
Optional head assembly:																									
RP-2422;	2-channel, 4-track rec/reproduce and 2-track reproduce																								
RP-2224;	2-channel, 2-track rec/reproduce and 4-track reproduce																								
Tape speed:	3 speeds (76.2, 38.1 and 19.05cm/s)																								
	Max. deviation ±0.08% and fluctuation 0.03% at 76cm/s																								
Digital display functions:																									
pitch control;	Indication of pitch variation up to ±9.9% (recording and reproduce) in increments/decrements of 0.1% per step with quartz-locked accuracy																								
Tape speed;	Indication of the deviation from rated tape speed																								
Time counter;	Indication of ±19 hours, 59 minutes and 59 seconds, accuracy 0.5% for all speed																								
Automatic operation functions:																									
Auto-stop;	Tension roller switches for end of tape running, or tension control circuit stops the operation within 3 sec. for accidental stop of take-up reel motor																								
Memory auto-stop;	With memory switch on, tape movement stops at the memorized time of time counter display																								
Auto-play;	Tape movement automatically changes from rewind mode to reproduce mode by control tape																								
Auto-repeat;	Automatic repeat (Reproduce and rewind) of the portion between the control tapes																								
Reel Size:	13 to 26.7 cm (EIA or NAB, plastic or metal)																								
Wow and flutter																									
(Rec/Repro):	<table><tr><td></td><td>JIS</td><td>DIN</td><td>NAB</td></tr><tr><td></td><td>Weighted</td><td>Weighted</td><td>Unweighted</td></tr><tr><td></td><td>RMS</td><td>Peak</td><td>RMS</td></tr><tr><td> 76 cm/s;</td><td>0.01%</td><td>±0.025%</td><td>0.02%</td></tr><tr><td> 38 cm/s;</td><td>0.015%</td><td>±0.035%</td><td>0.03%</td></tr><tr><td> 19 cm/s;</td><td>0.03%</td><td>±0.05%</td><td>0.05%</td></tr></table>		JIS	DIN	NAB		Weighted	Weighted	Unweighted		RMS	Peak	RMS	76 cm/s;	0.01%	±0.025%	0.02%	38 cm/s;	0.015%	±0.035%	0.03%	19 cm/s;	0.03%	±0.05%	0.05%
	JIS	DIN	NAB																						
	Weighted	Weighted	Unweighted																						
	RMS	Peak	RMS																						
76 cm/s;	0.01%	±0.025%	0.02%																						
38 cm/s;	0.015%	±0.035%	0.03%																						
19 cm/s;	0.03%	±0.05%	0.05%																						
Fast winding time:	Less than 150 sec with 762m tape																								
Capstan drive:	Quartz-phase-locked control DC brushless servo direct-drive motor																								
Reel drive:	2 tape tension controlled DC brushless direct-drive motor																								
Edit capability:	Edit marker, tape dump or cue/review using cue/edit lever																								
Tape tension:	Constant at all speeds and reel sizes. Supply and take-up tension controlled																								
Remote control:																									
functions;	Rec/PB/Pause/FF/Rewind/Stop Optional remote control box RP-9690 and infrared wireless remote control RP-070 available																								

Electronics

Input:

Line balanced; 77.5mV (-20dBm)/10k Ω , max input level = + 5dBm at 50Hz 1% THD
 Unbalanced; 60mV (-22dBm)/47k Ω (phono type jack) max. input level = infinity
 (Line input connected to Line in level control before pass through the amplifier)

Output:

Line balanced; 1.228V (+ 4dBm)/600 Ω output level control at 0VU, 3.9V (+ 14dBm) maximum, load impedance 600 Ω /10k Ω or more, switchable
 Unbalanced; 0.775V (0dBm)/1k Ω output level control at 0VU, 2.45V (+ 10dB) maximum, load impedance 22k Ω over (phono type jack)
 Headphone; 120mV headphone level control maximum, load impedance 8 Ω (stereo phono type jack)

Frequency response

(Rec/Repro): Reference Level

76cm/s;	-10dB	30~35,000Hz (40~25,000Hz $\pm$ 2dB)
	0VU	30~30,000Hz
38cm/s;	-10dB	30~30,000Hz (30~22,000Hz $\pm$ 2dB)
	0VU	30~20,000Hz
19cm/s;	-10dB	20~25,000Hz (20~20,000Hz $\pm$ 2dB)
	-20dB	20~20,000Hz

Signal-to-Noise ratio

(Rec/Repro): A-weighted at 1kHz

	650nWb/m	370nWb/m
76cm/s;	69dB	64dB
38cm/s;	67dB	62dB
19cm/s;	67dB	62dB

650nWb/m = 11dB above a 0VU of 185nWb/m
 1kHz THD is less than 3%
 370nWb/m = 6dB above a 0VU of 185nWb/m
 Measured with bulk erased 3M type 207 type

Distortion (Rec/Repro):

Total Harmonic Distortion at 400Hz, all speeds
 less than 0.8% at 185nWb/m (0VU)
 less than 2% at 370nWb/m (+ 6dB)

Channel separation:

Better than 50dB at 1kHz

Erase depth:

Better than 70dB, recorded 1kHz, + 10dB

Operating level (0VU):

185nWb/m

Recording bias:

200kHz

Auto position;

Automatic adjustment of peak bias level within 30 seconds

Manual;

Fine bias adjustment -50% to +50%

Equalization:

Auto position;

Automatic adjustment of optimum level within 30 seconds

Manual;

Fine adjustment (vary 30dB at 10kHz with variable control)

Test oscillator:

100Hz/1kHz/10kHz/20kHz, 1% THD at 0VU

Physical

Power requirements:

AC 110/125/220/240V, 50-60Hz 165W

Weight:

Transport unit;	36kg
Amplifier unit;	16.6kg

Dimensions:

Transport unit;	500mm(W) $\times$ 443mm(H) $\times$ 347mm(D)
Amplifier unit;	500mm(W) $\times$ 222mm(H) $\times$ 389mm(D)

Specifications are subject to change without notice.

MEASUREMENT AND ADJUSTMENT METHODS SPECIFICATIONS

The specifications are prescribed provided that the tape deck conditions should be as follows, unless otherwise specified.

1) Playback conditions

- Monitor switch: TAPE position
- Playback head
changeover switch: 2 track position
- Load impedance
changeover switch: 600 Ω
- Balanced/unbalanced
changeover switch: Balanced

2) Recording conditions

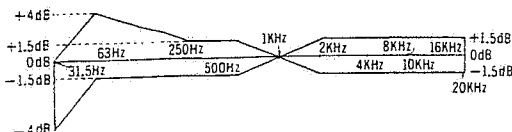
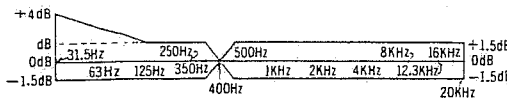
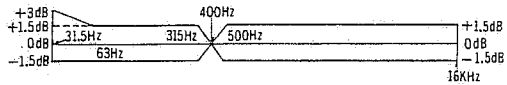
- Input terminal: Balanced input
Standard input level -20dBm
- REC mode switch: ON
- Meter: VU meter indication
- Input volume: Max.
- Output volume: -10dB (0VU) position
- Input selector: LINE
- Equalizer switch: NAB position
- Balanced/unbalanced
changeover switch: Balanced
- Load impedance
changeover switch: 600 Ω
- Playback head
changeover switch: 2 track position

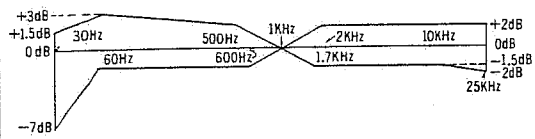
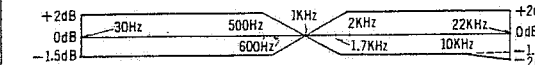
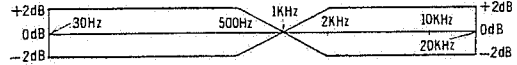
3) Test tape

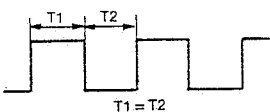
- Blank test tape: QZZORA218EX (Scotch #218)
- Playback frequency
response test tape:

76cm/s	QZZOF760EX
38cm/s	QZZOF380EX
19cm/s	QZZOF190EX

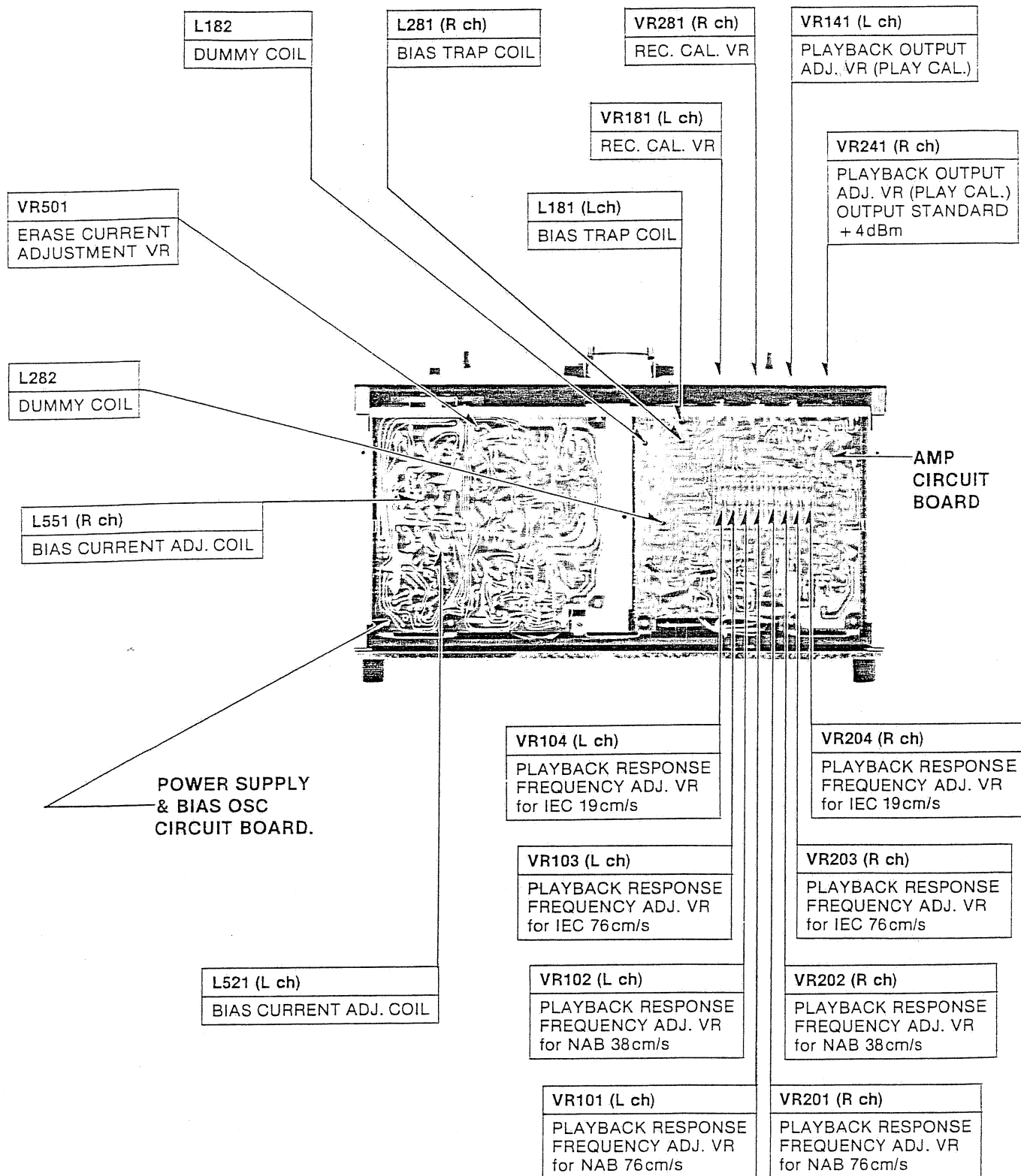
PLAYBACK/RECORDING SYSTEM

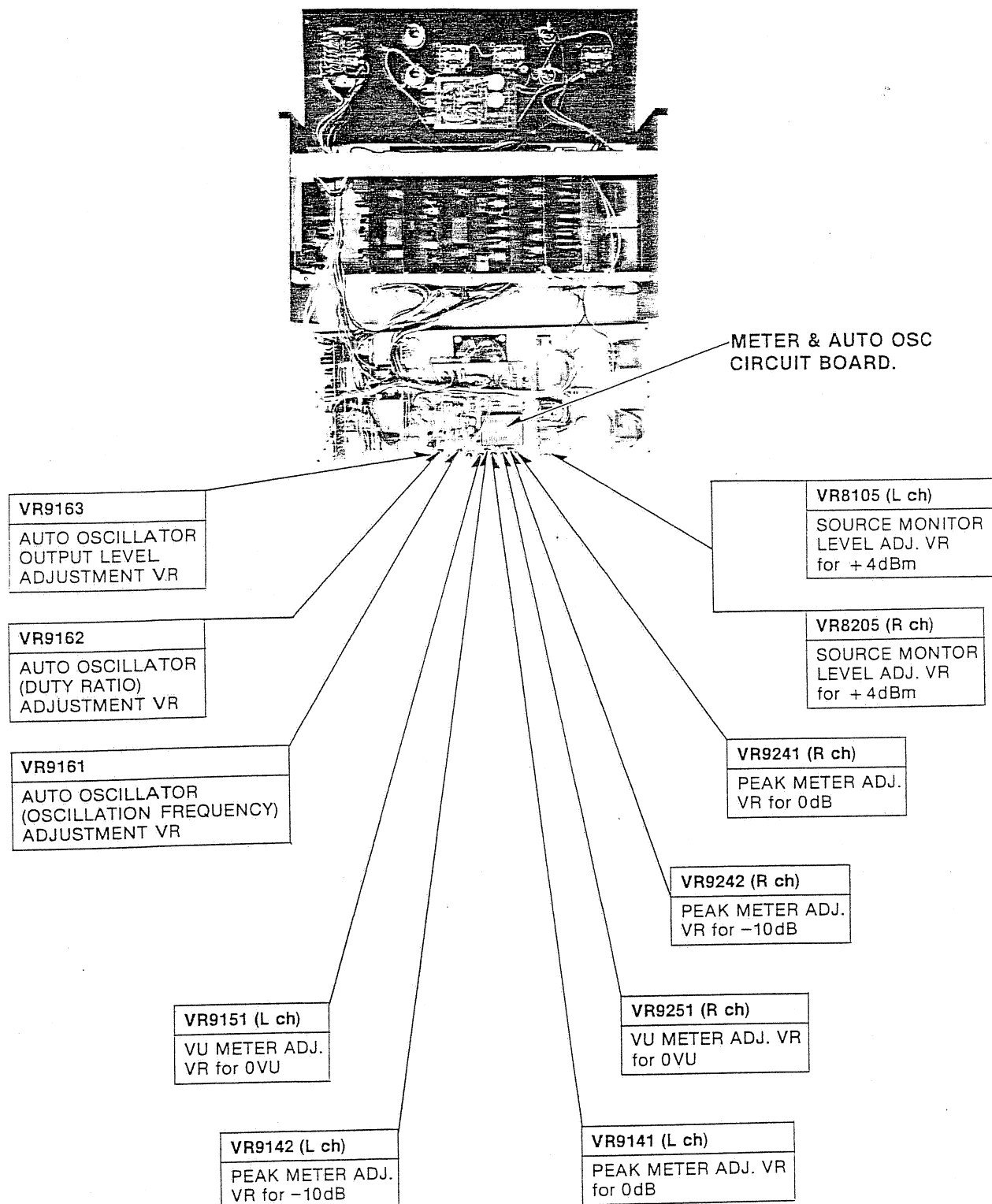
Item	Specification	Adjustment Part				Remarks
Playback System						
Playback frequency response	[Tape speed: 76 cm/s] 		NAB	IEC		
		76 cm/s	VR101 VR201	VR103 VR203	L-CH R-CH	
		38 cm/s	VR102 VR202	—	L-CH R-CH	
		19 cm/s	—	VR104 VR204	L-CH R-CH	
[Tape speed: 38 cm/s]  [Tape speed 19 cm/s] 						
Standard playback output	+ 4 dBm (1.228 V)	VR141 VR241		—		
Maximum playback output	+ 4 dBm + 10 dB	—		Output level control: maximum		
Playback S/N ratio (unweighted)	76 dB or more (76 cm/s) 48 dB or more (38 cm/s, 19 cm/s)	—		—		
Playback level meter (Tape monitor)	0 VU	VR6101 (L-CH) VR6201 (R-CH)		—		
Recording System						
Standard recording level	Line in: -24 ± 3 dB Balanced connector: $-22 \pm \frac{1}{3}$ dB					
Source monitor level	Line out: + 4 dBm	VR8105 (L-CH) VR8205 (R-CH)		—		
Level meter (Source monitor VU)	0 VU	VR9151 (L-CH) VR9251 (R-CH)		—		
Level meter (Source monitor Peak)	0 dB Peak	VR9141 (L-CH) VR9241 (R-CH)		—		

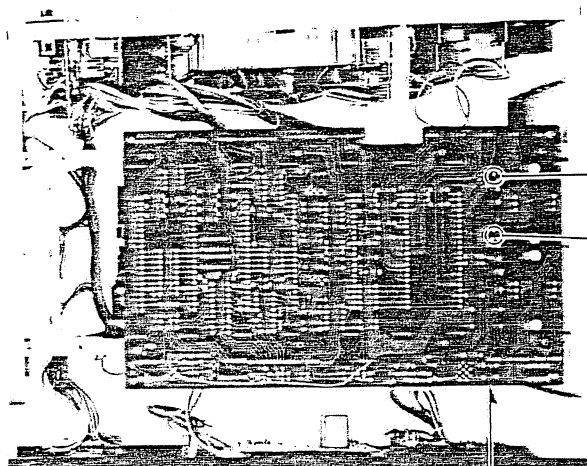
Item	Specification	Adjustment Part	Remarks
Level meter (Source monitor Peak)	-10dB Peak	VR9142 (L-CH) VR9242 (R-CH)	—
Level meter (Source monitor Peak)	-8dB Peak	VR9141 (L-CH) VR9241 (R-CH)	—
Erase current	$90 \pm \frac{10}{5}$ mA	VR501	Measurement point R184
Dummy coil		L182 (L-CH), L282 (R-CH)	—
Bias Leakage	Minimum	L181 (L-CH), L281 (R-CH)	—
Bias current	Maximum	L521 (L-CH) L551 (R-CH)	Measurement point R182
Overall System			
Overall frequency response	19cm/s VR5103 (L-CH) VR5203 (R-CH) VR3142 (L-CH) VR3242 (R-CH) } 25kHz L3141 (L-CH) L3241 (R-CH) } 25kHz 38cm/s VR3143 (L-CH) VR5103 (L-CH) } Bias current VR3243 (R-CH) VR5103 (R-CH) } ADJ VR 76cm/s VR3141 (L-CH) VR3241 (R-CH)		
[76cm/s: 0VU]  [38cm/s: -10VU]  [19cm/s: -20VU] 			
Overall gain	+4dBm $\pm$ 1dB	Rec cal VR	—
Phase Linear	—	76cm/s 38cm/s 19cm/s VR2111, VR2112, VR2113 (L-CH) VR2211, VR2212, VR2213 (R-CH)	—
Test Oscillator	Distortion Less than 0.5%	VR9101	1 kHz Line out

Item	Specification	Adjustment Part	Remarks								
Test Oscillator	Output Level 0.775V±5dB	VR9103 VR9102 VR9104 VR9105	1kHz 100Hz 10kHz 20kHz								
Overall S/N ratio											
<table><tr><td>Tape speed</td><td>Standard value</td></tr><tr><td>76cm/s</td><td>51dB or more</td></tr><tr><td>38cm/s</td><td>49dB or more</td></tr><tr><td>19cm/s</td><td>49dB or more</td></tr></table>				Tape speed	Standard value	76cm/s	51dB or more	38cm/s	49dB or more	19cm/s	49dB or more
Tape speed	Standard value										
76cm/s	51dB or more										
38cm/s	49dB or more										
19cm/s	49dB or more										
Erase ratio											
Tape speed 76cm/s <table><tr><td>Frequency</td><td>Standard value</td></tr><tr><td>1kHz</td><td>70dB or more</td></tr><tr><td>100Hz</td><td>60dB or more</td></tr></table>				Frequency	Standard value	1kHz	70dB or more	100Hz	60dB or more		
Frequency	Standard value										
1kHz	70dB or more										
100Hz	60dB or more										
Overall distortion	0.8% or less	—	—								
Auto bias and Auto equalizer											
Auto oscillator (frequency)	1.05±0.05kHz (square wave)	VR9161	TP1								
Auto oscillator (Duty ratio)		VR9162	TP1								
Overall gain	0VU	VR4103	—								
Auto oscillator (output level)	15±0.5V (p-p)	VR9163	IC5101 (PIN NO. 1)								
Auto bias (drift)	Stop (Manual) -50mV	VR5101	—								
Auto equalizer (equalization)	—	R4101	—								
Auto equalizer (set time)	Less than 2—10 sec.	VR4102	—								

ADJUSTMENT PARTS LOCATION (PLAYBACK/RECORDING SYSTEM)







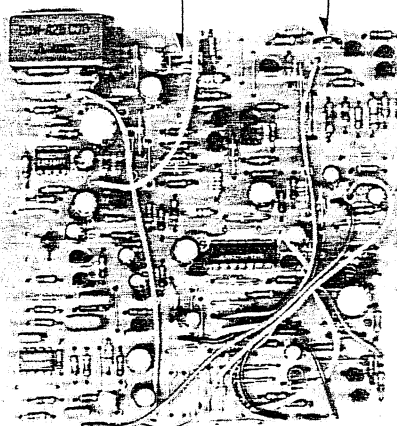
VR6101 (L ch)
VU METER ADJUSTMENT
VR in TAPE MONITOR
position

VR6201 (R ch)
VU METER ADJUSTMENT
VR in TAPE MONITOR
position

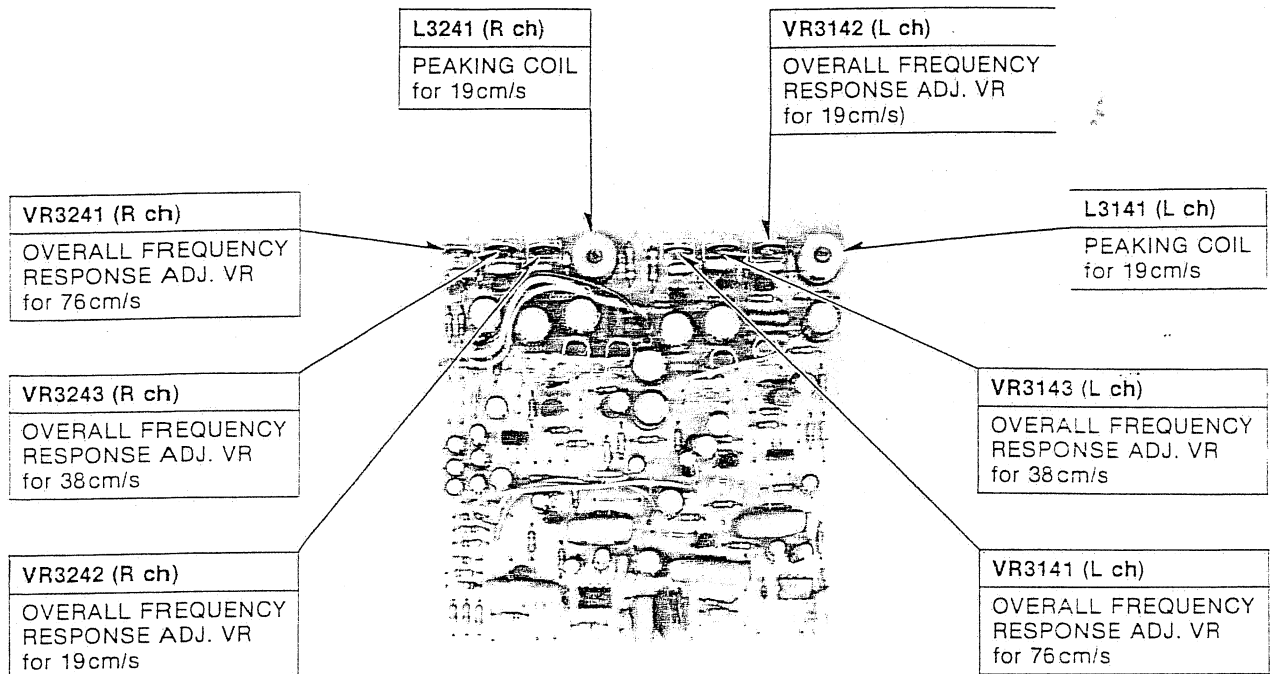
MOTHER CIRCUIT BOARD

VR5101
AUTO BIAS (DRIFT)
ADJUSTMENT VR

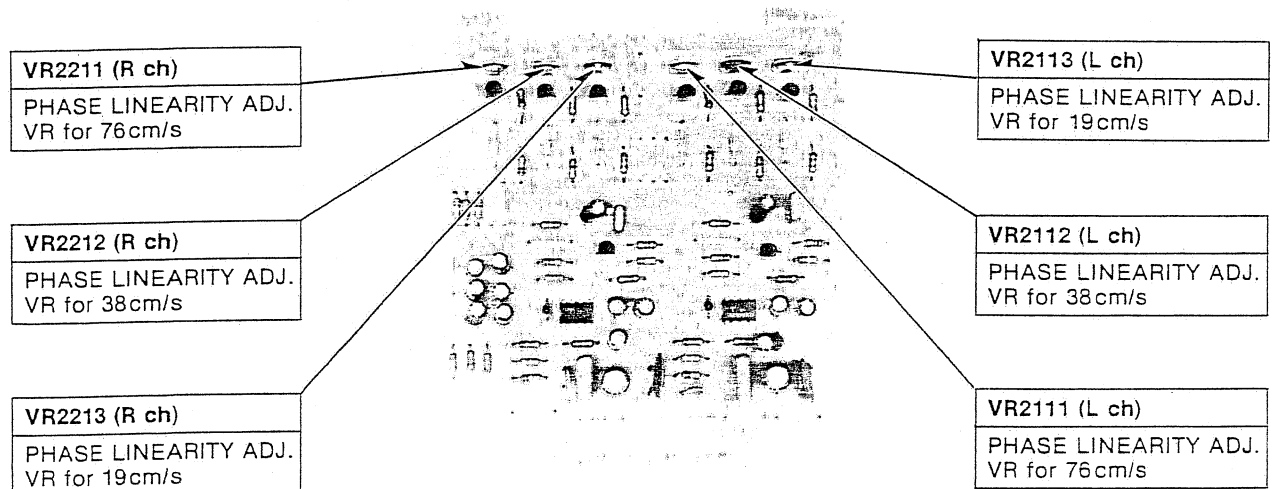
VR5103
BIAS ADJUSTMENT VR



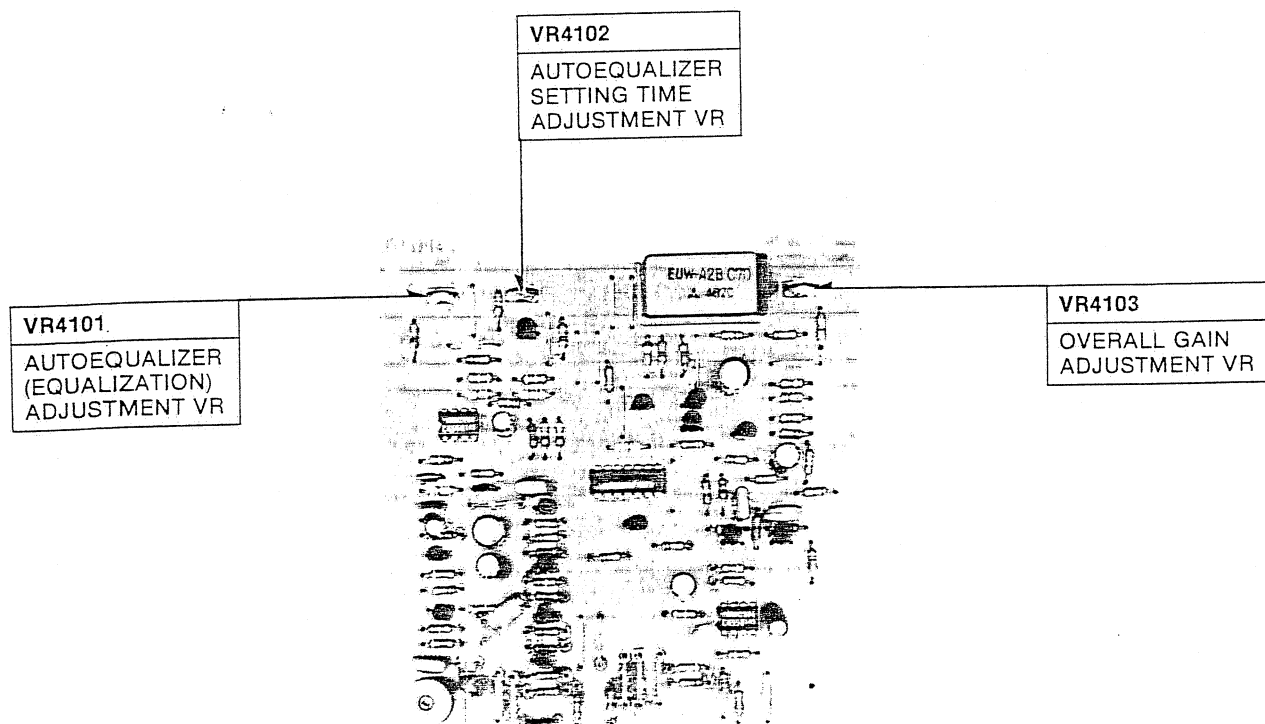
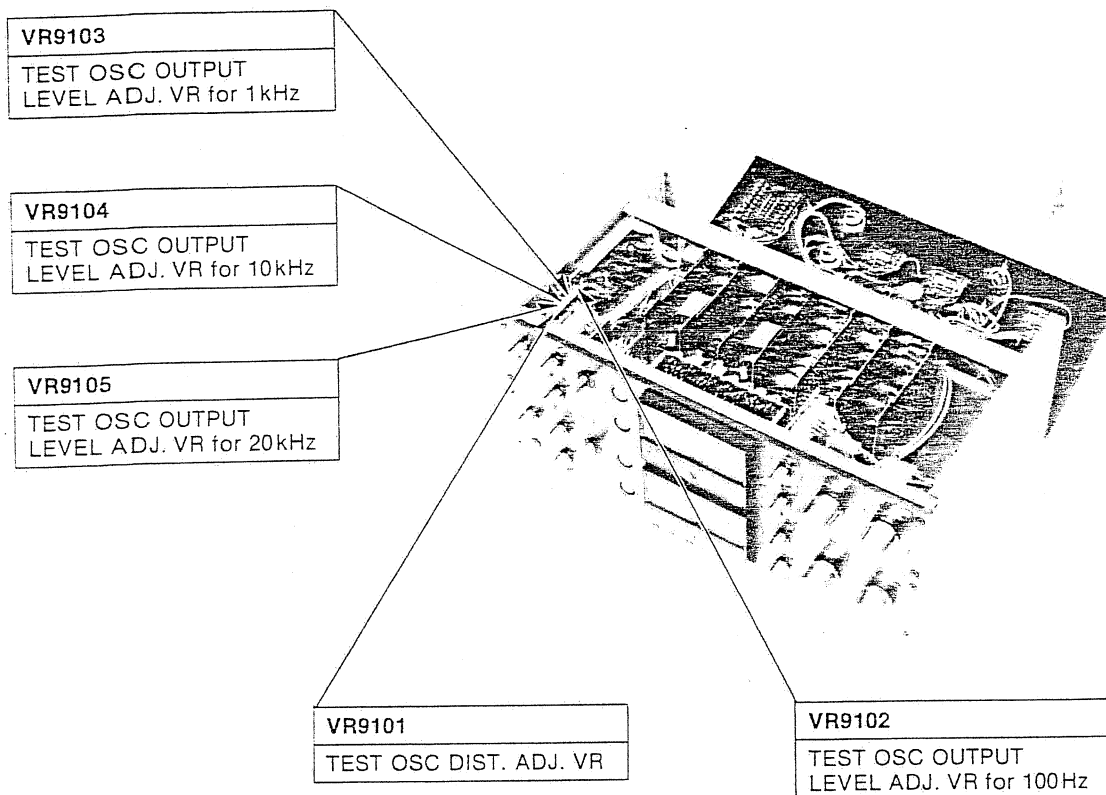
AUTO BIAS CIRCUIT BOARD



REC EQ AND DRIVE CIRCUIT BOARD

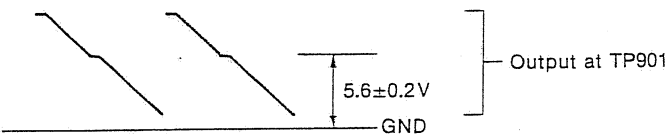


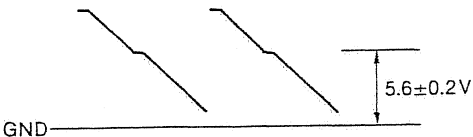
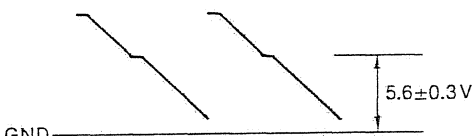
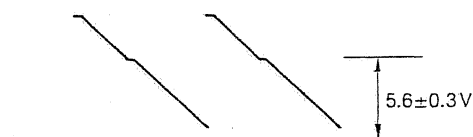
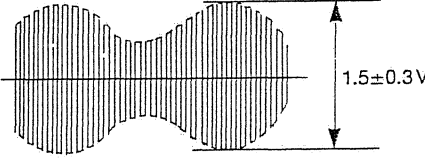
LINE IN & PHASE LINEAR CIRCUIT BOARD



AUTO EQUALIZER CIRCUIT BOARD

MECHANISM SYSTEM

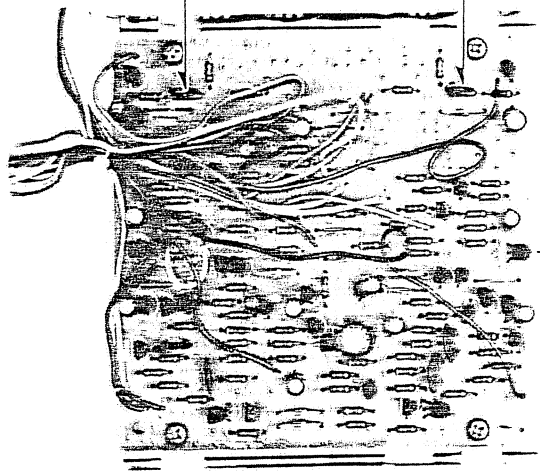
Item	Specification	Adjustment Part	Remarks																							
Mechanism System																										
Pressure roller position	Symmetrical with relation to capstan approx. 1mm space left between capstan and pressure rollers.	Control plate Adjustment plate	—																							
Pressure of pressure roller	900±100g	Pressure roller plunger	—																							
Pressure roller height	—	Number of washer	—																							
Brakes	450±70gr: Strong direction 140±25gr: Weak direction	Brake plunger	—																							
Tape tension	Takeup torque: 65±5g	VR802	—																							
	Back tension: 75±5g	VR801																								
Tension roller height	—	Number of washer	—																							
Reel table height	—	Height adjustment screw	—																							
Tape guides position	—	Each guide	—																							
Tape speed																										
<table><tr><th rowspan="2">Tape speed (cm/s)</th><th rowspan="2">Speed deviation (%)</th><th rowspan="2">Speed fluctuation (%)</th><th colspan="2">Wow and flutter</th></tr><tr><th>JIS, WRMS (%)</th><th>DIN, W/P-P (%)</th></tr><tr><td>76</td><td>±0.08</td><td>0.03</td><td>0.010</td><td>±0.025%</td></tr><tr><td>38</td><td>±0.10</td><td>0.05</td><td>0.015</td><td>±0.035%</td></tr><tr><td>19</td><td>±0.15</td><td>0.10</td><td>0.03</td><td>±0.08%</td></tr></table>					Tape speed (cm/s)	Speed deviation (%)	Speed fluctuation (%)	Wow and flutter		JIS, WRMS (%)	DIN, W/P-P (%)	76	±0.08	0.03	0.010	±0.025%	38	±0.10	0.05	0.015	±0.035%	19	±0.15	0.10	0.03	±0.08%
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19	±0.15	0.10	0.03	±0.08%																						
Off set voltage	0±50mV	VR931	TP902—TP903 (Connect) TP904, TP905																							
Reference voltage (Vs)	5±0.1V	VR961	TP901																							
Phase lock point		VR911	TP906																							
																										

Item	Specification	Adjustment Part	Remarks
Pitch control		—	TP906
Pitch control 0.0%  GND Pitch control -9.9%  GND Pitch control +9.9%  GND			
Power voltage	12±2V	—	TP910
Position detection signal		—	TP907
 1.5±0.3V			

ADJUSTMENT PARTS LOCATION
(MECHANISM SYSTEM)

VR802
TAKEUP TORQUE
ADJUSTMENT VR

VR801
BACK TENSION
ADJUSTMENT VR

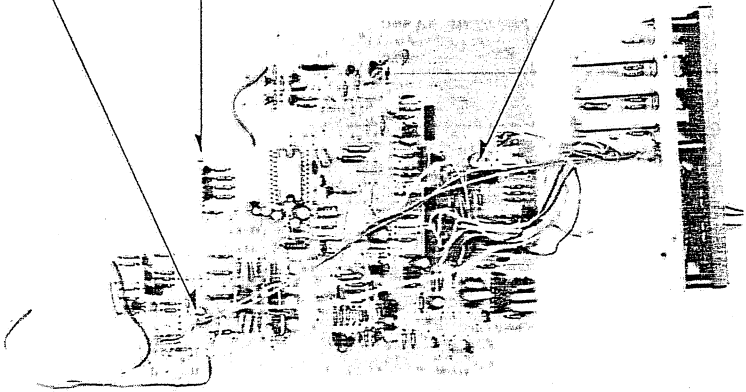


REEL MOTOR TENSION CONTROL
CIRCUIT BOARD

VR911
PHASE LOCK POINT
ADJ. VR

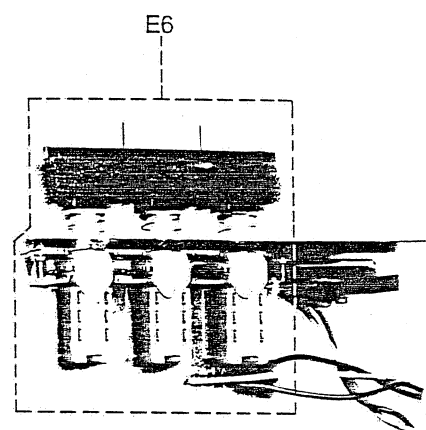
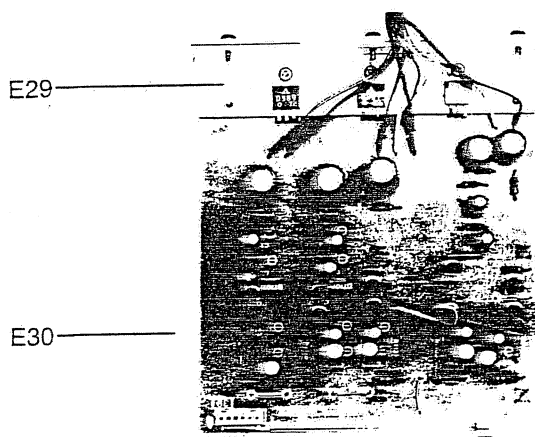
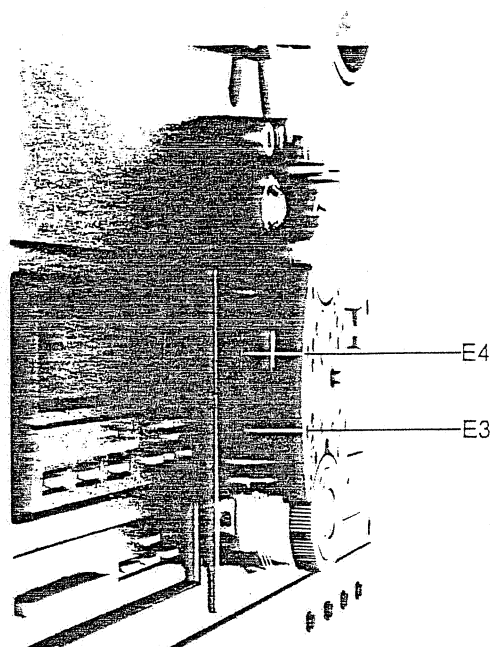
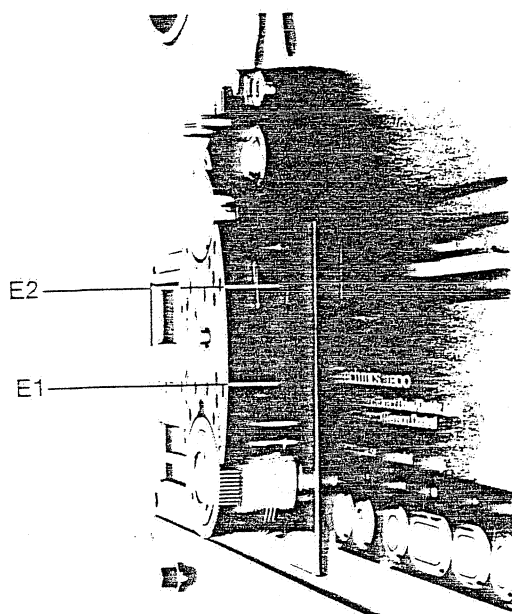
VR931
OFFSET VOLTAGE
ADJUSTMENT VR

VR961
REFERENCE VOLTAGE
ADJUSTMENT VR

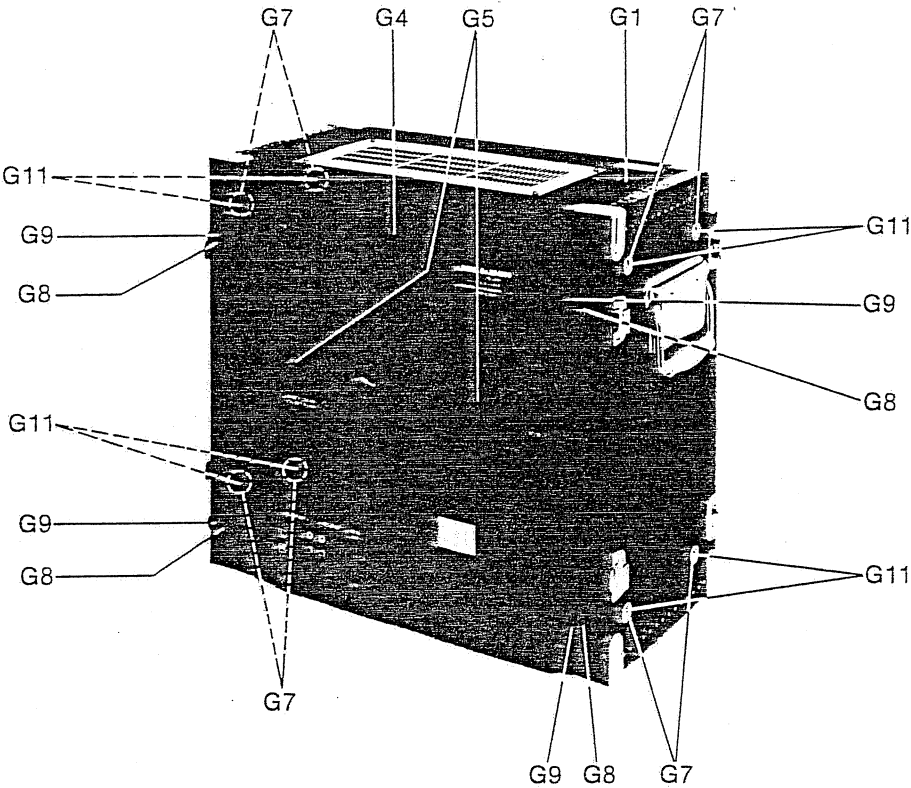
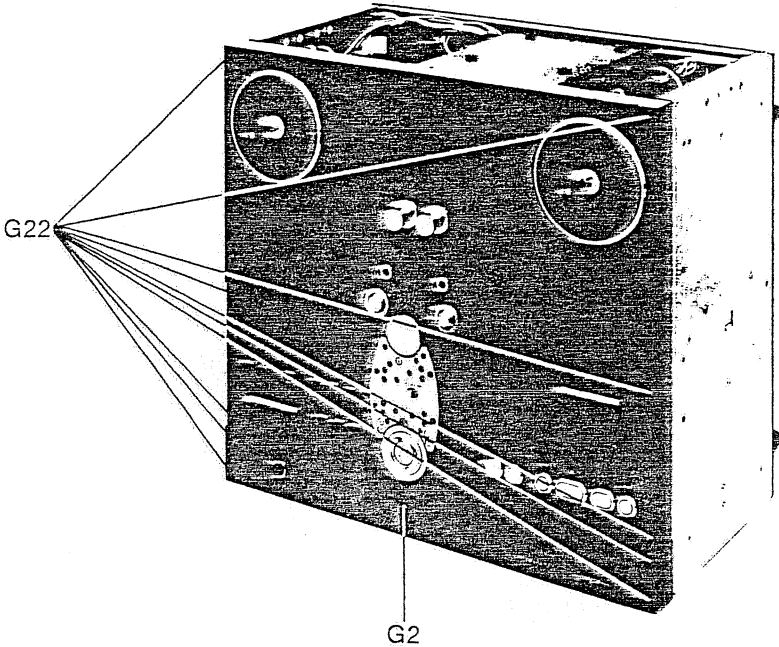


CAPSTAN DRIVE CIRCUIT BOARD

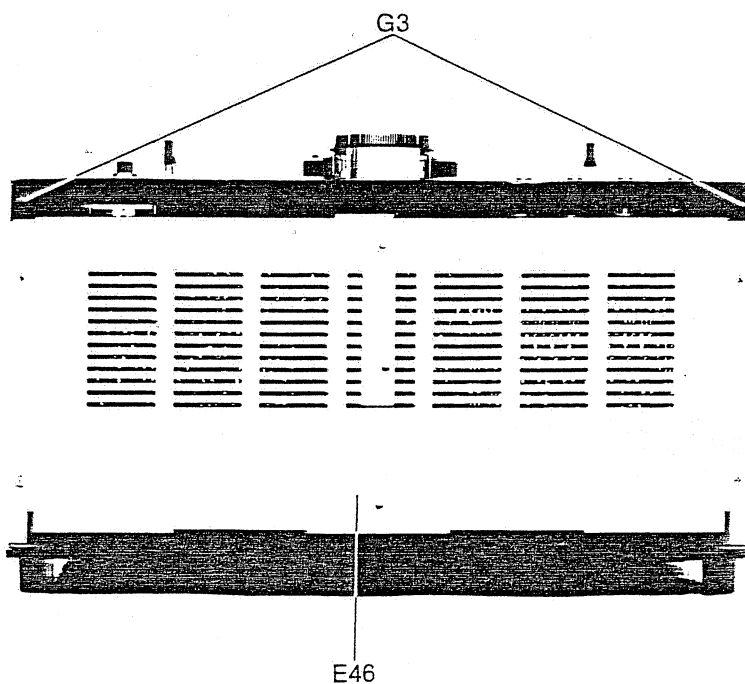
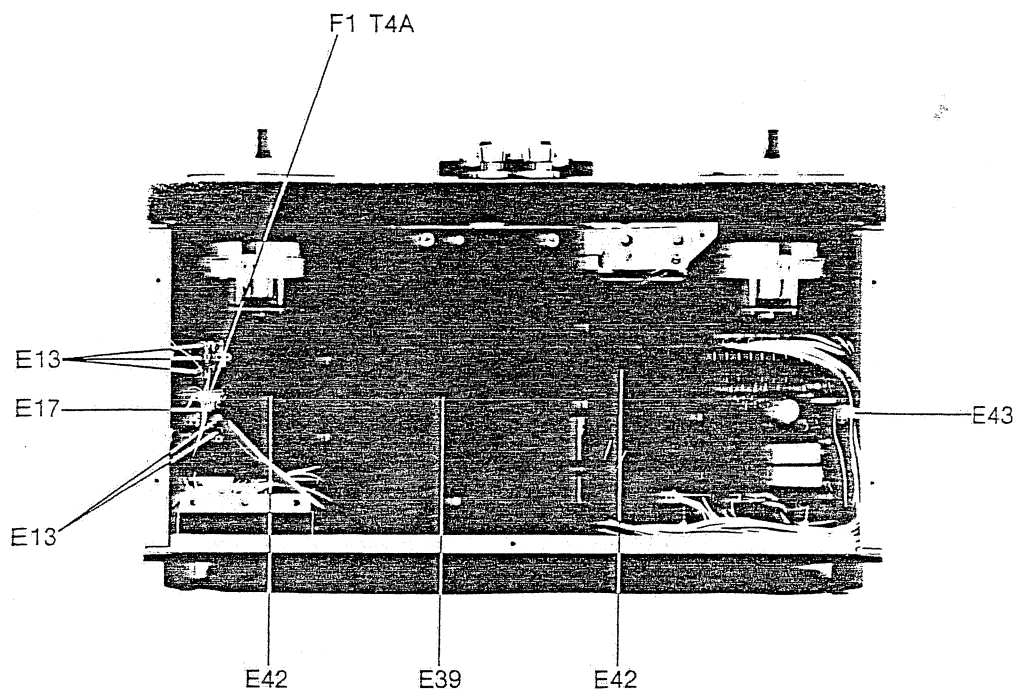
ELECTRICAL PARTS LOCATION



ELECTRICAL PARTS LOCATION



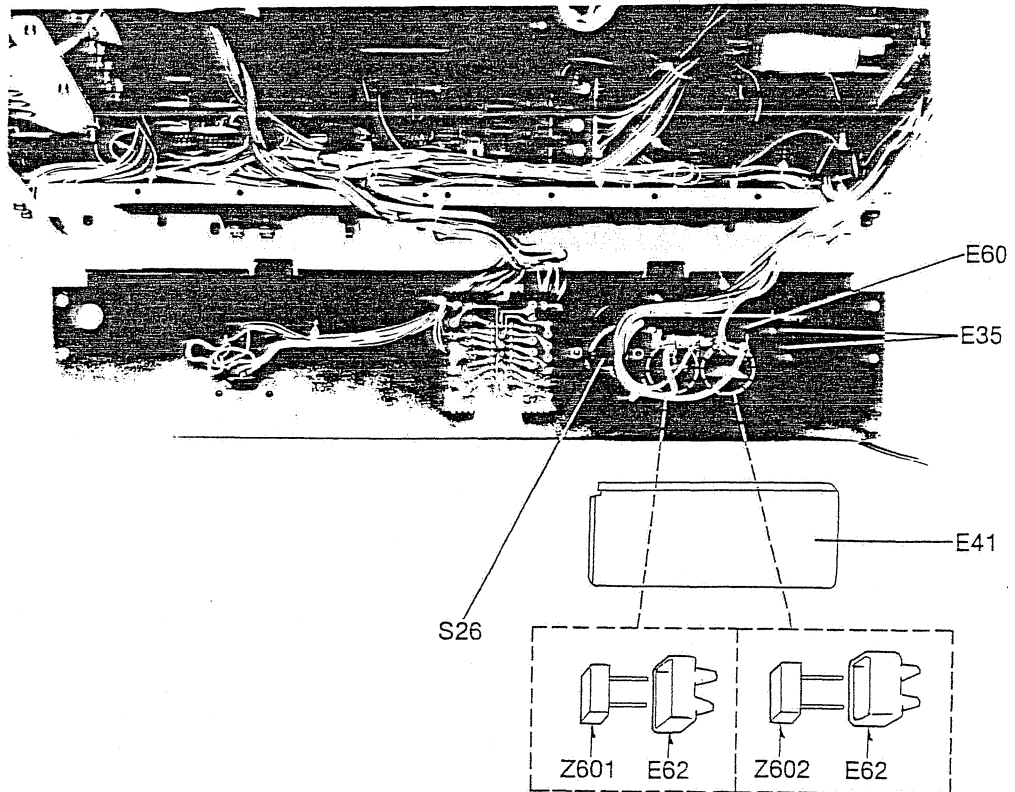
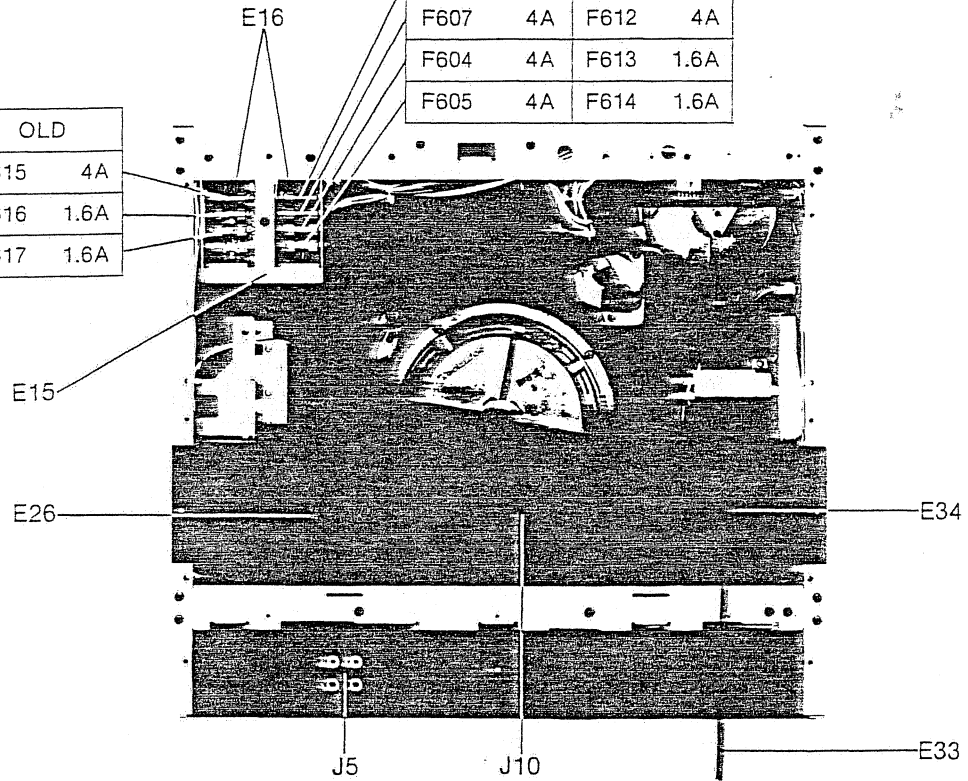
ELECTRICAL PARTS LOCATION



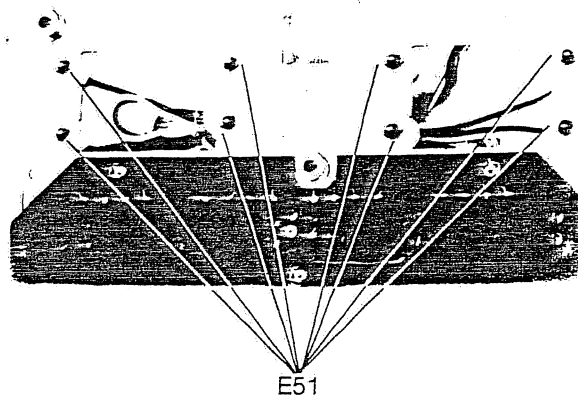
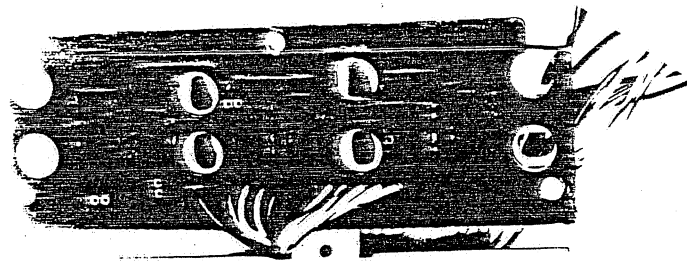
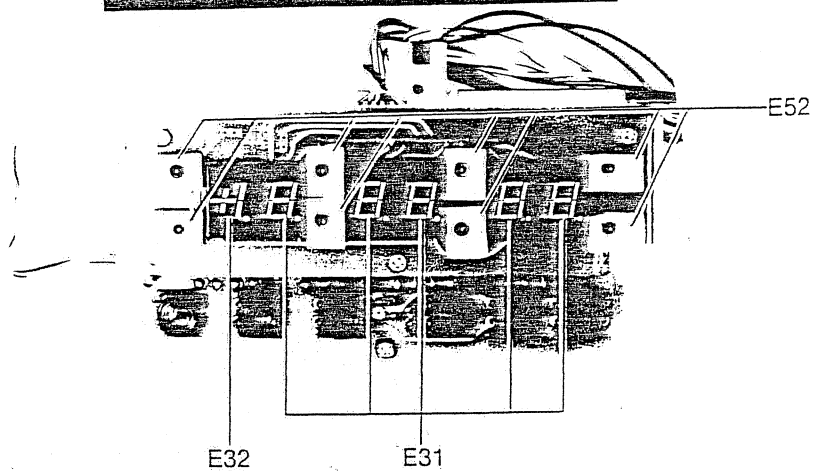
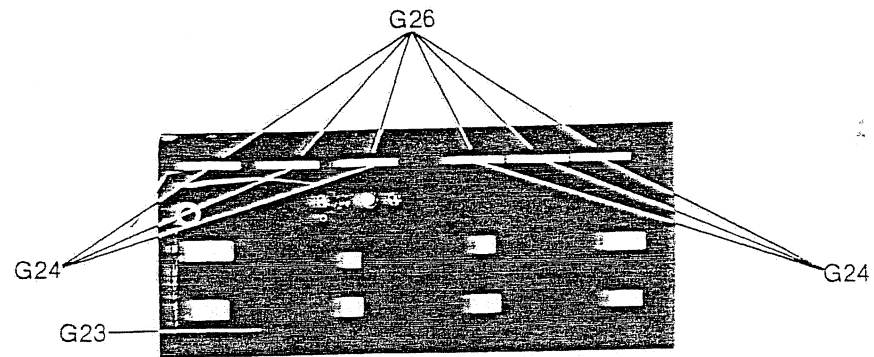
ELECTRICAL PARTS LOCATION

NEW		OLD	
F601	1A	F615	4A
F603	4A	F616	1.6A
F602	6A	F617	1.6A

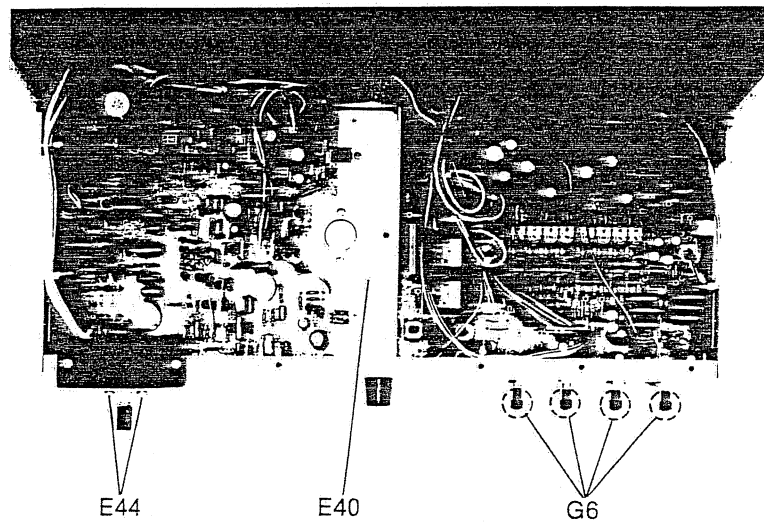
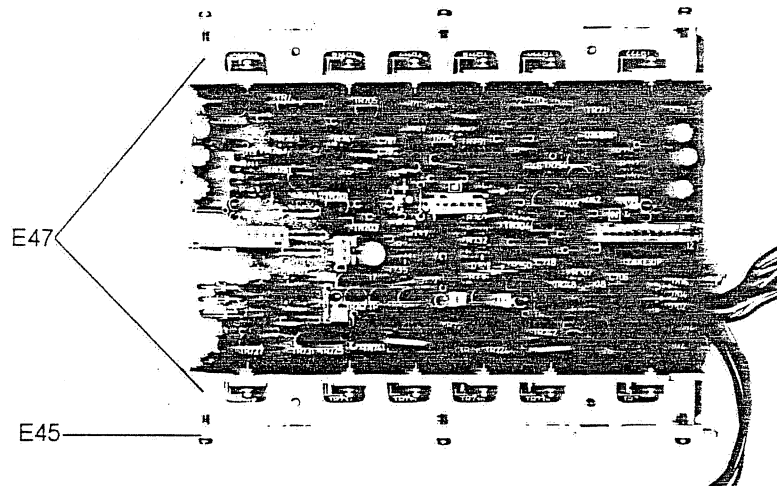
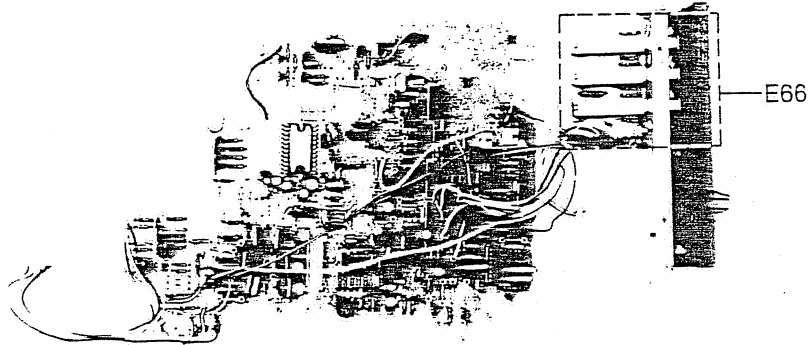
NEW		OLD	
F606	4A	F611	4A
F607	4A	F612	4A
F604	4A	F613	1.6A
F605	4A	F614	1.6A



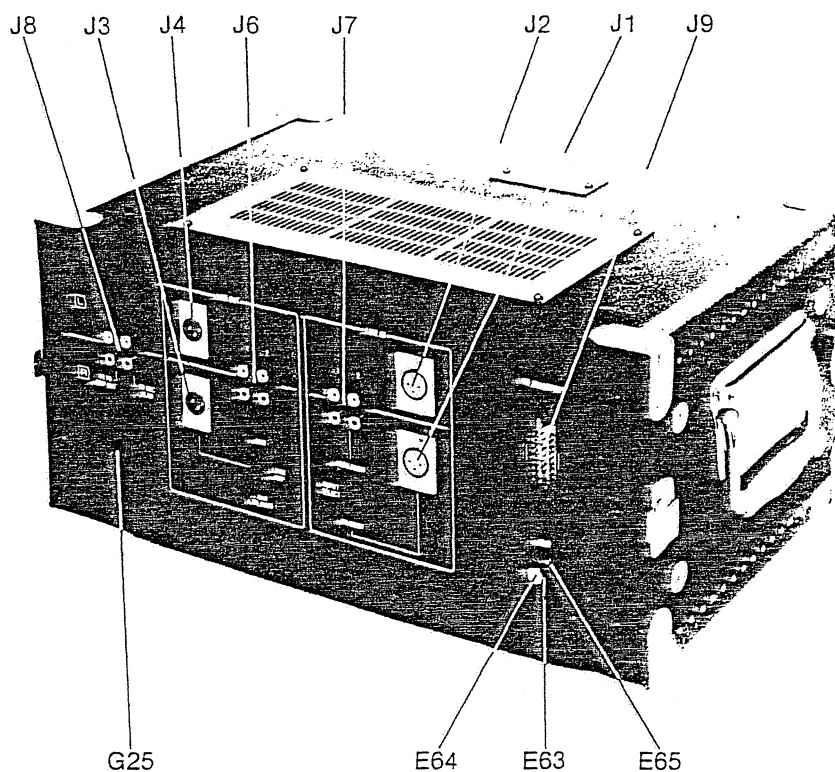
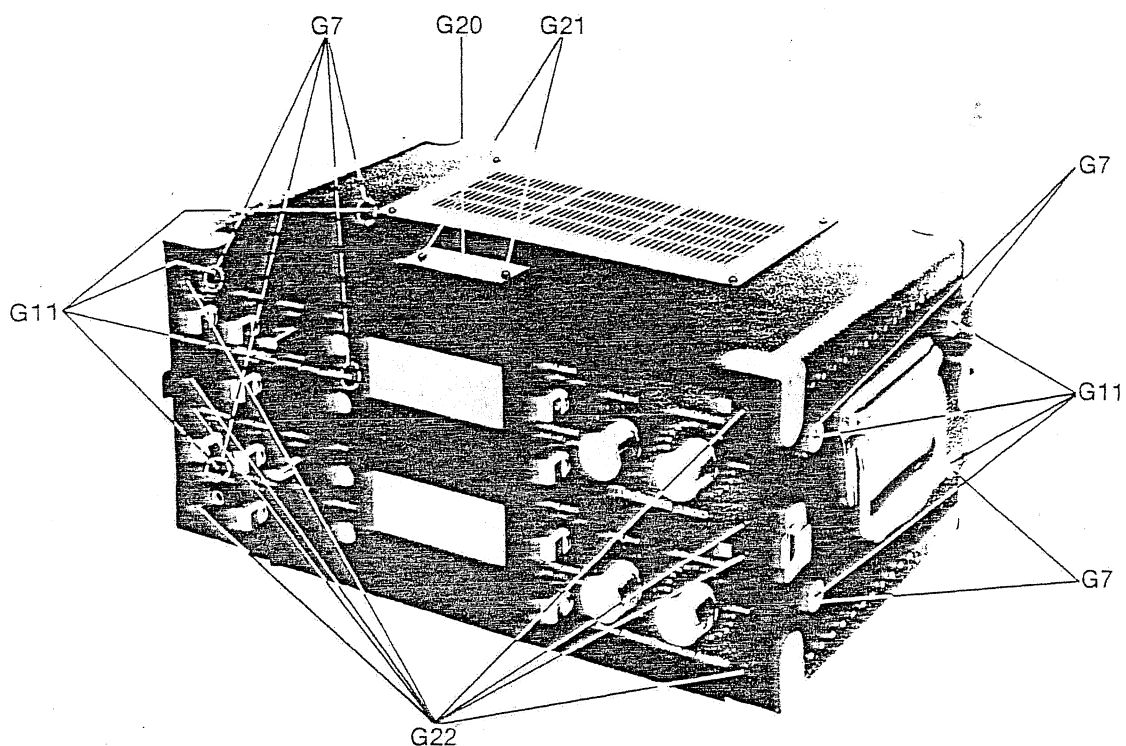
ELECTRICAL PARTS LOCATION



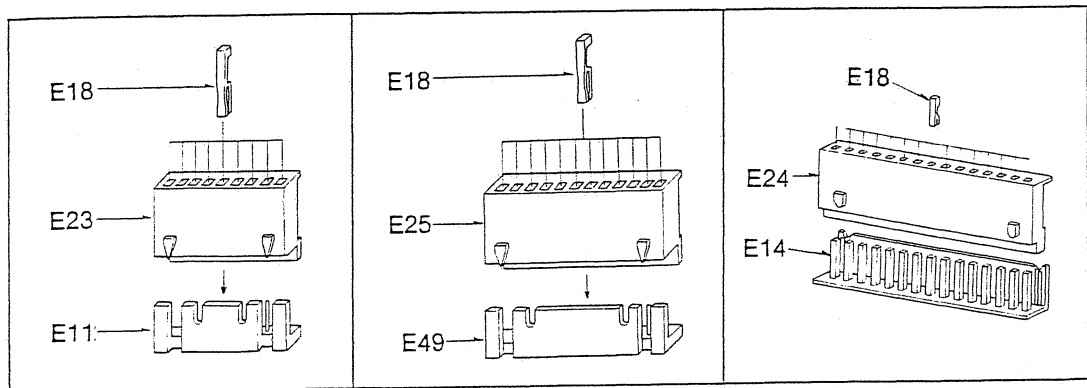
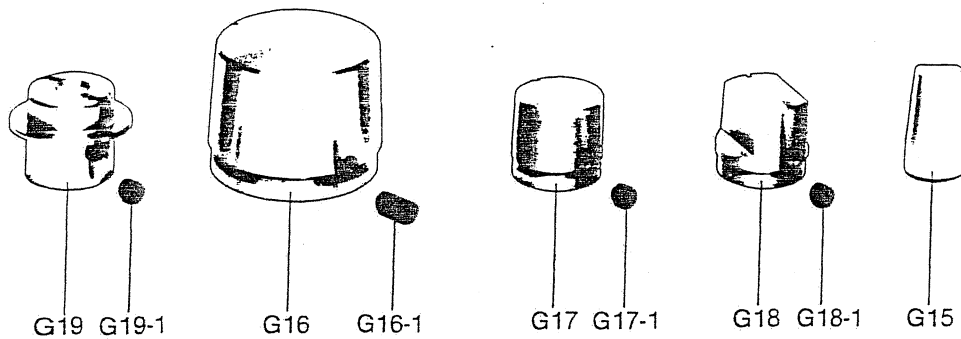
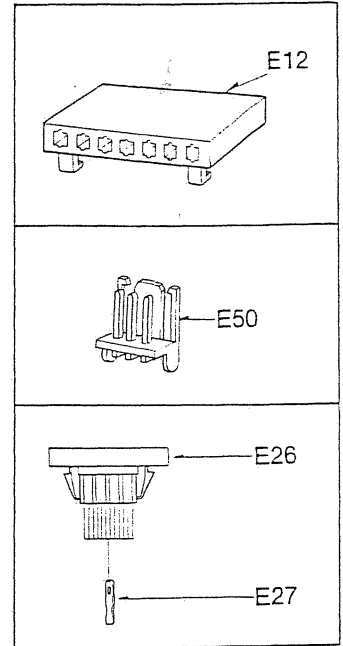
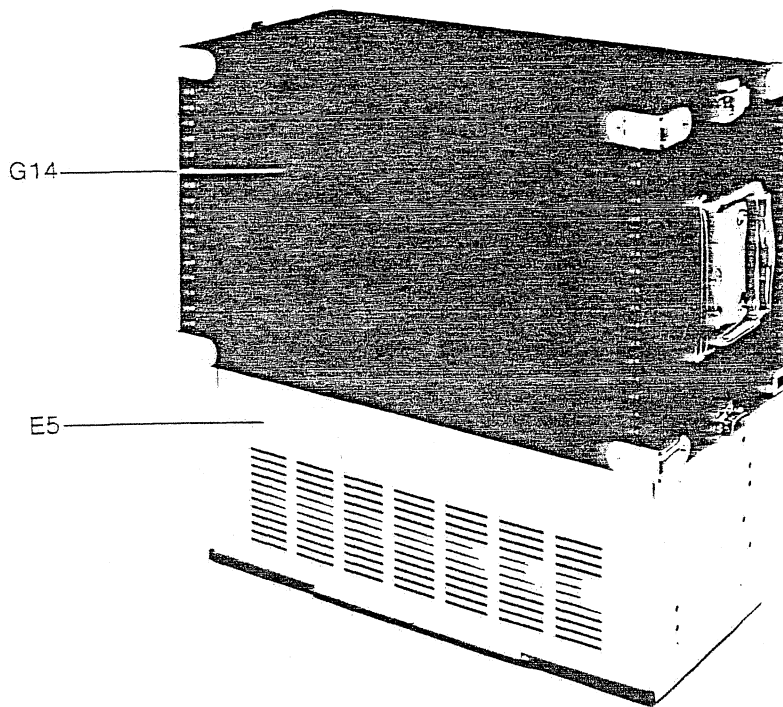
ELECTRICAL PARTS LOCATION



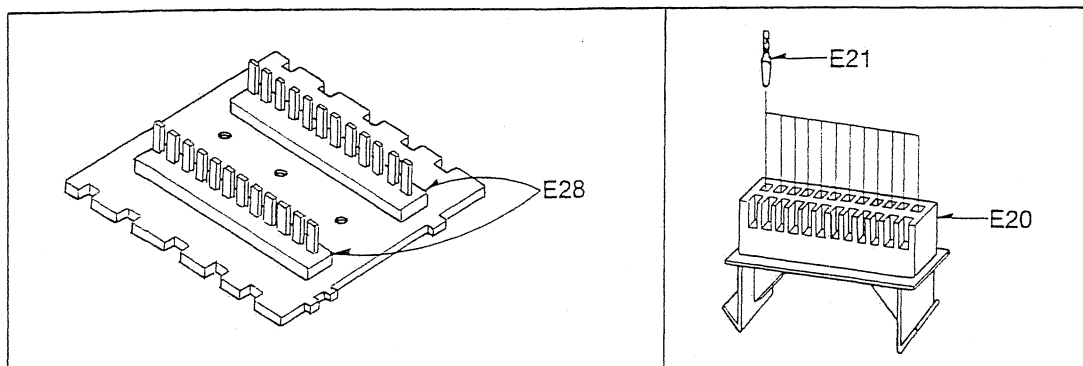
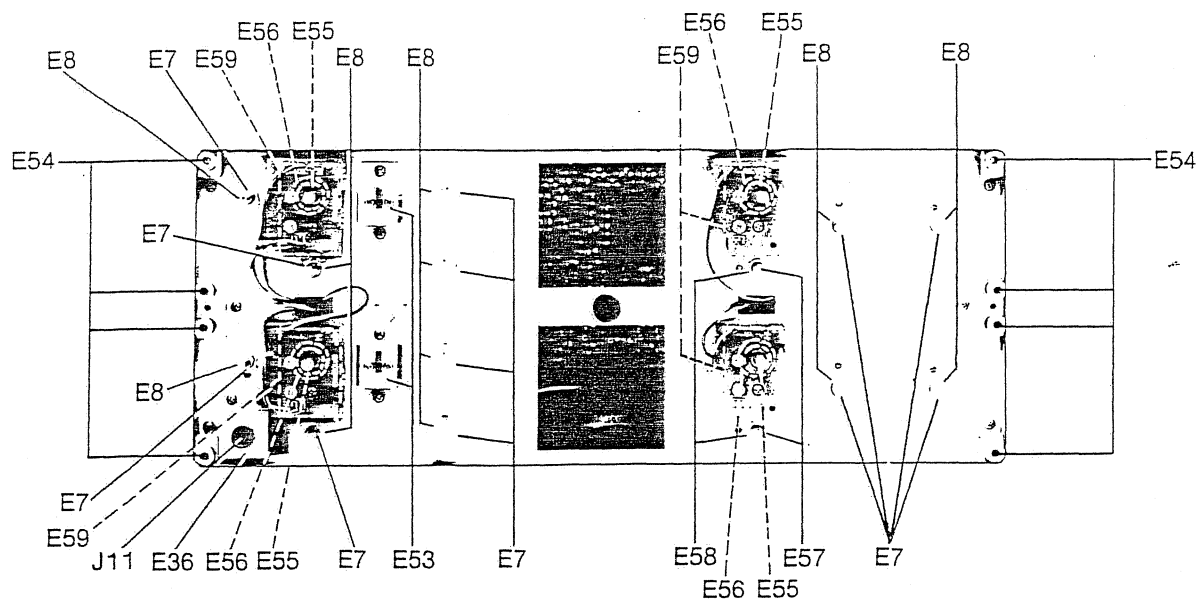
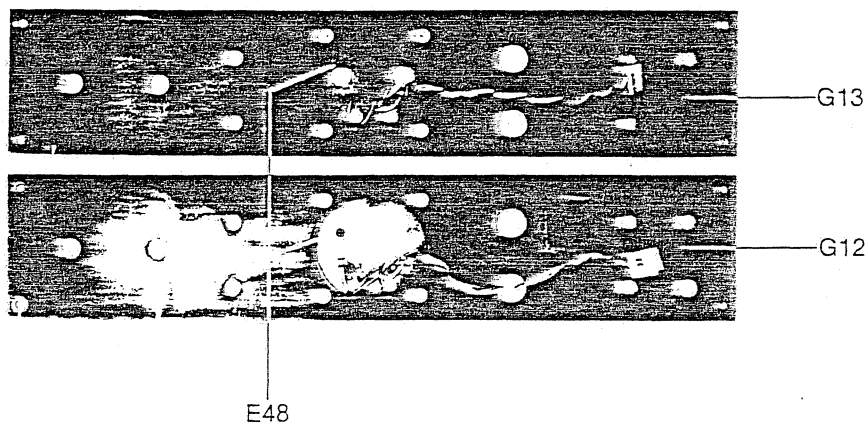
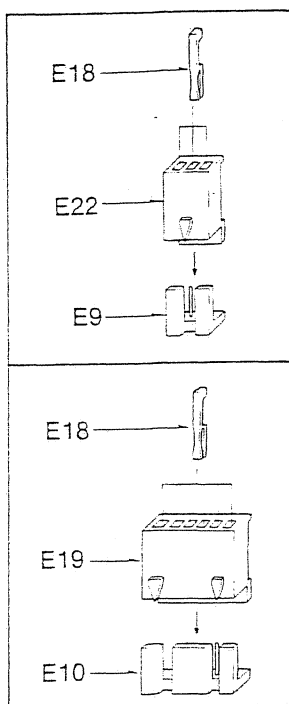
ELECTRICAL PARTS LOCATION



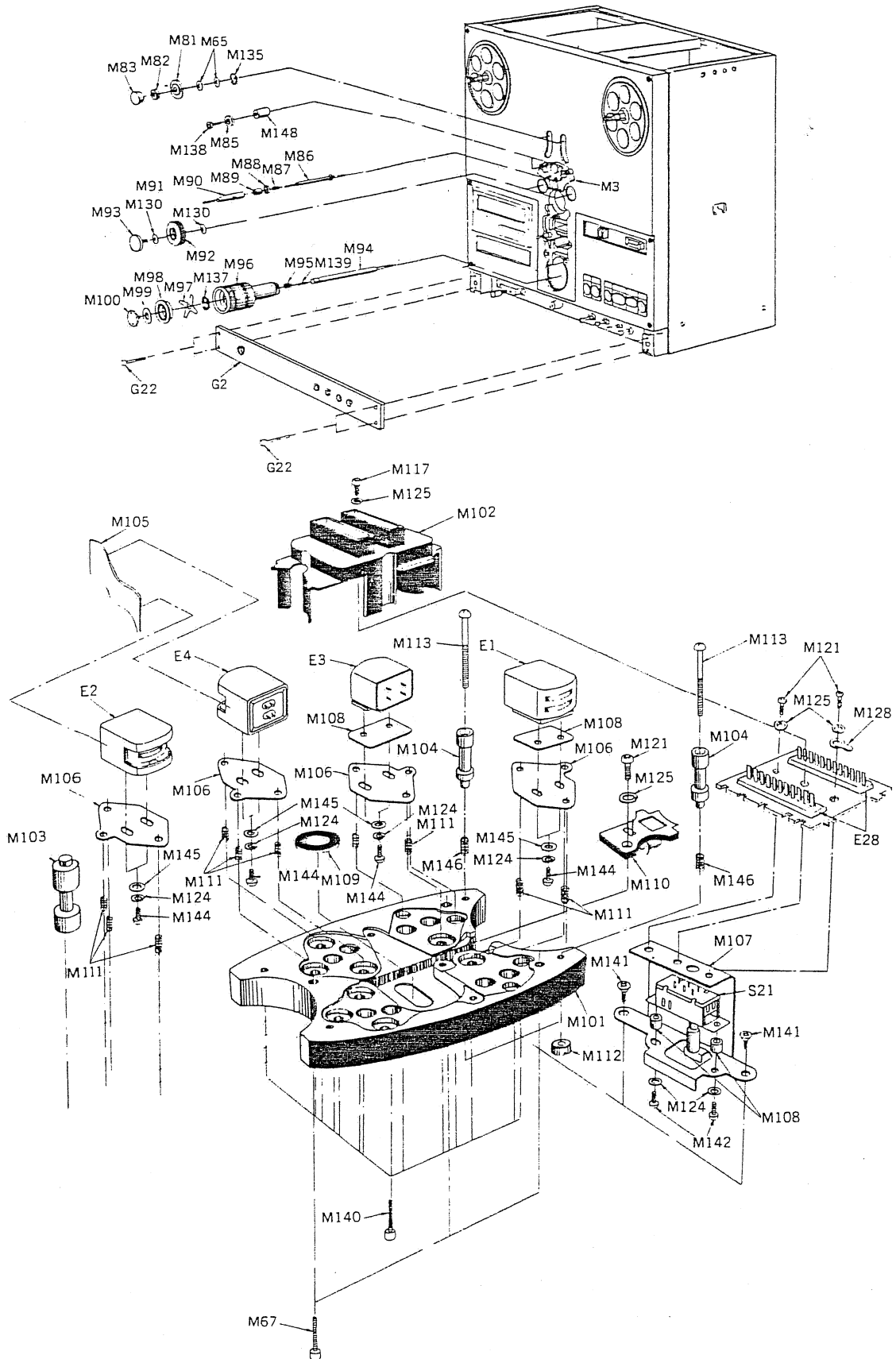
ELECTRICAL PARTS LOCATION



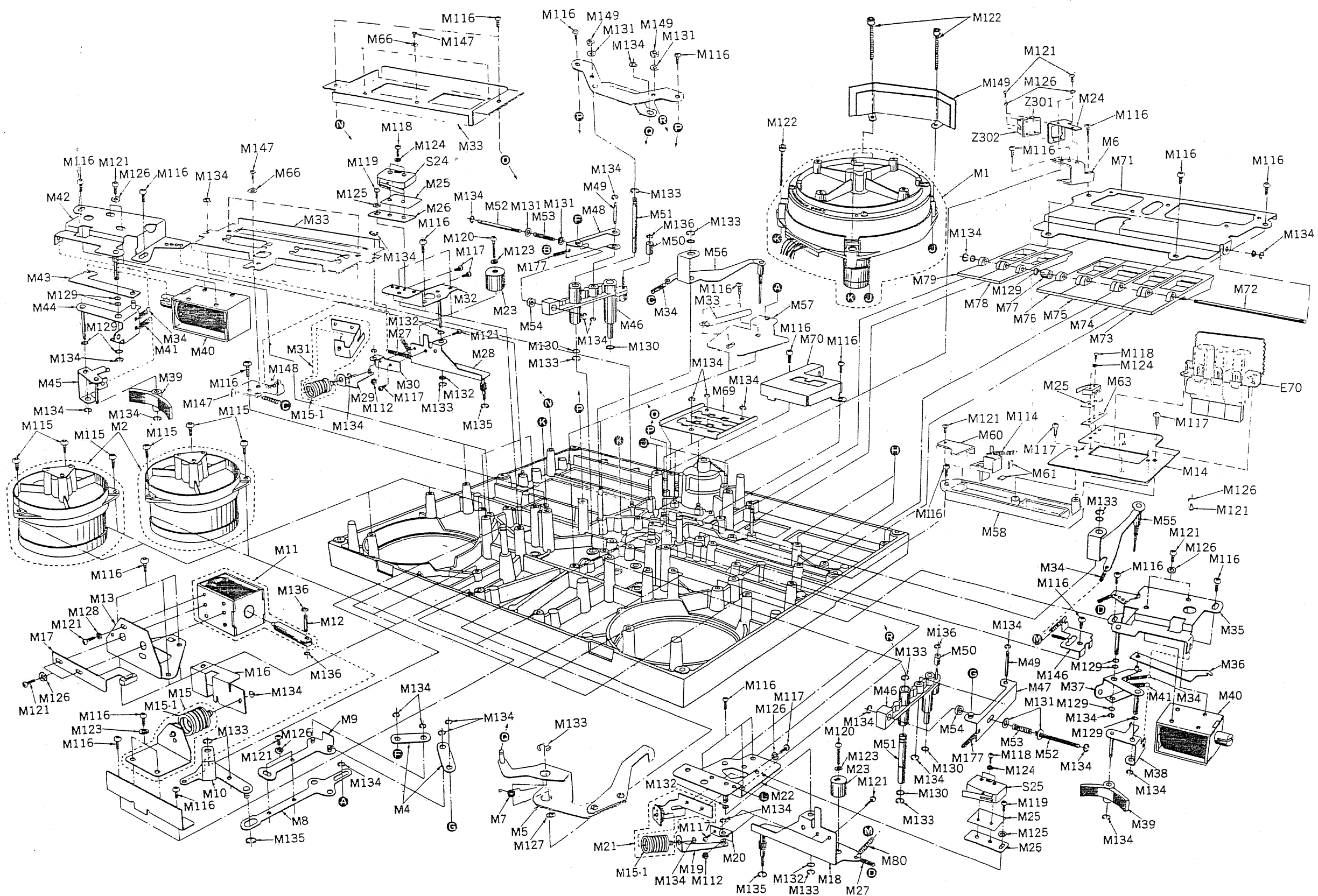
ELECTRICAL PARTS LOCATION



MECHANICAL PARTS LOCATION



MECHANICAL PARTS LOCATION



SCHEMATIC DIAGRAM

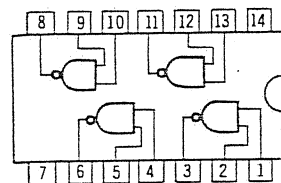
Main Control Section

NOTES:

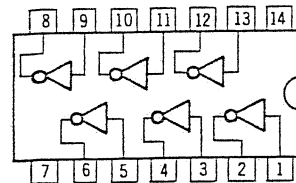
- S14Tape transport mode switch for manual.
- S15Tape transport mode switch for auto play.
- S16Tape transport mode switch for repeat.
[Shown in MANUAL position].
- S17Record button switch.
- S18Pause button switch.
- S19Rewind button switch.
- S20Stop button switch.
- S21Playback button switch.
- S22Fast forward button switch.
- VR1Tape end detection adjustment VR.
- Resistance are in ohms (Ω), 1/4 watt unless otherwise specified.
- K = 1000 Ω .
- Capacity are in microfarads (μ F) unless otherwise specified.
- P = Picofarads.
- The mark (▼) shows test point. E.g. ▼ = Test point 1.
- Internal block diagram.

EQUIVALENT CIRCUIT

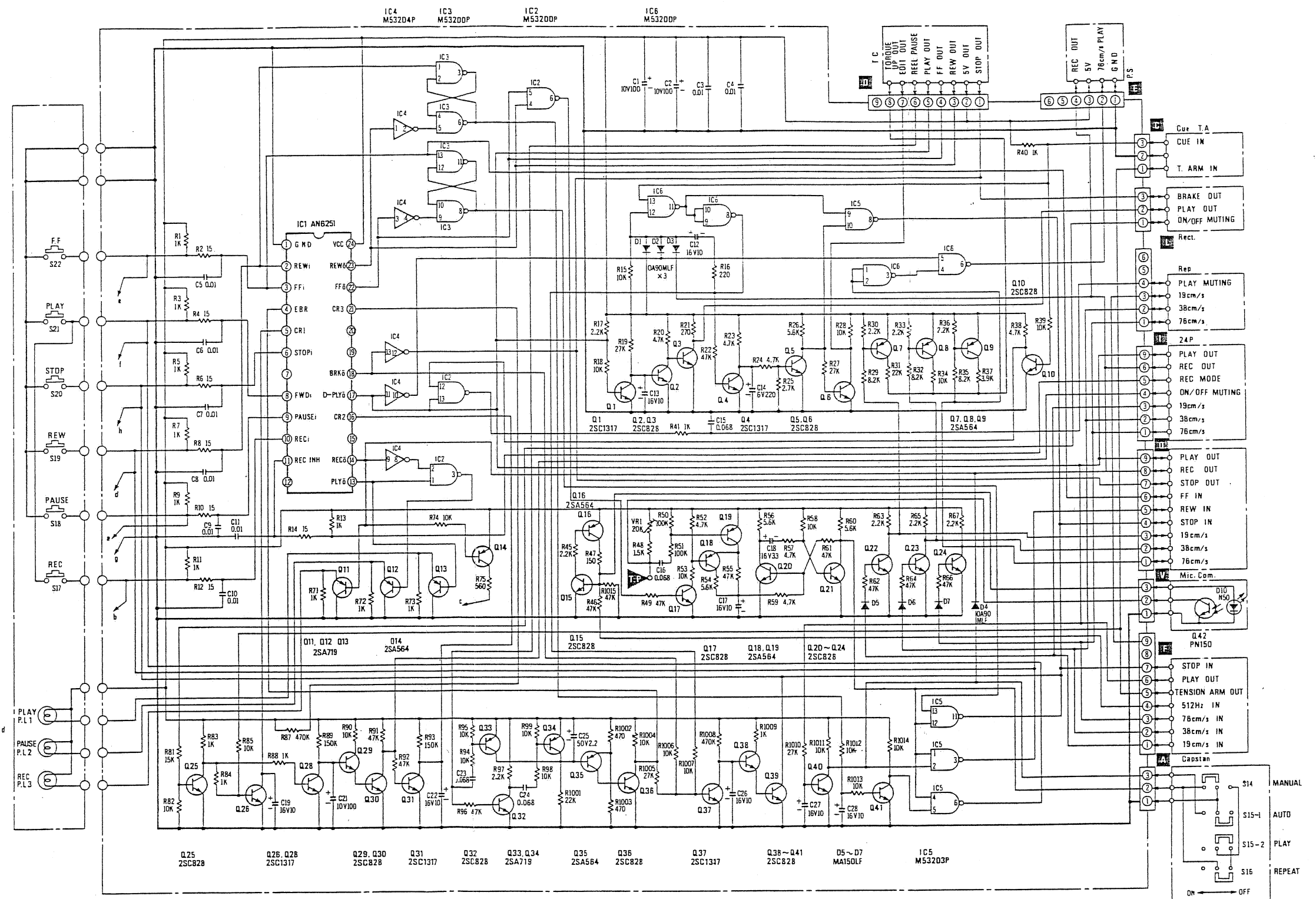
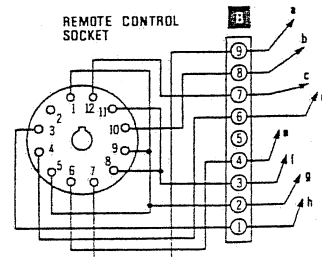
M53200P



M53204P

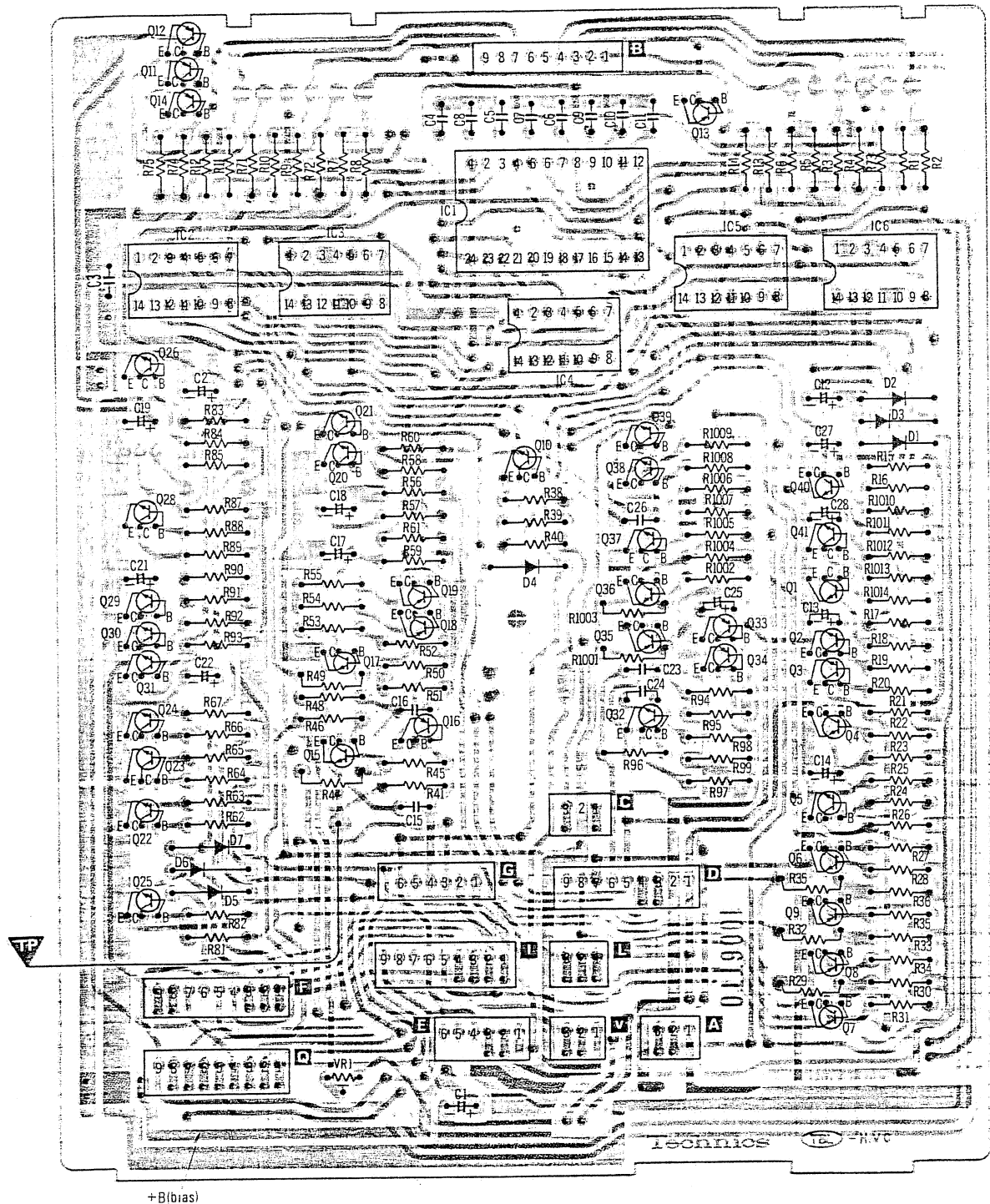


REMOTE CONTROL SOCKET



CIRCUIT BOARD

MAIN CONTROL CIRCUIT BOARD

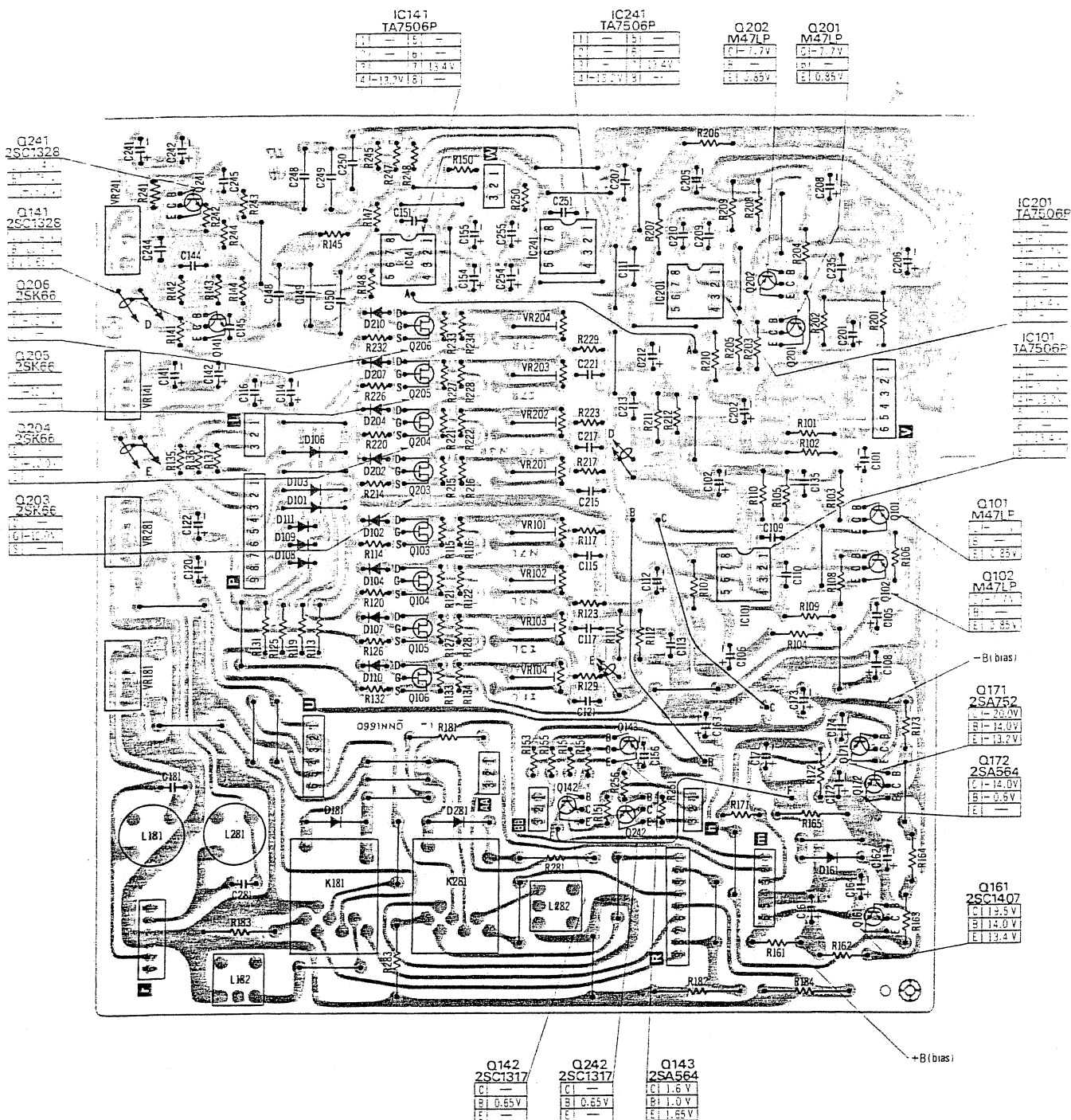


NOTES:

- The circuit shown in  on the conductor indicates printed circuit on the front side of the printed circuit board.
- The circuit shown in  on the conductor indicates printed circuit on the back side of the printed circuit board.
- The symbols (•) indicate connection points between conductors on the front side and back side of the circuit board.

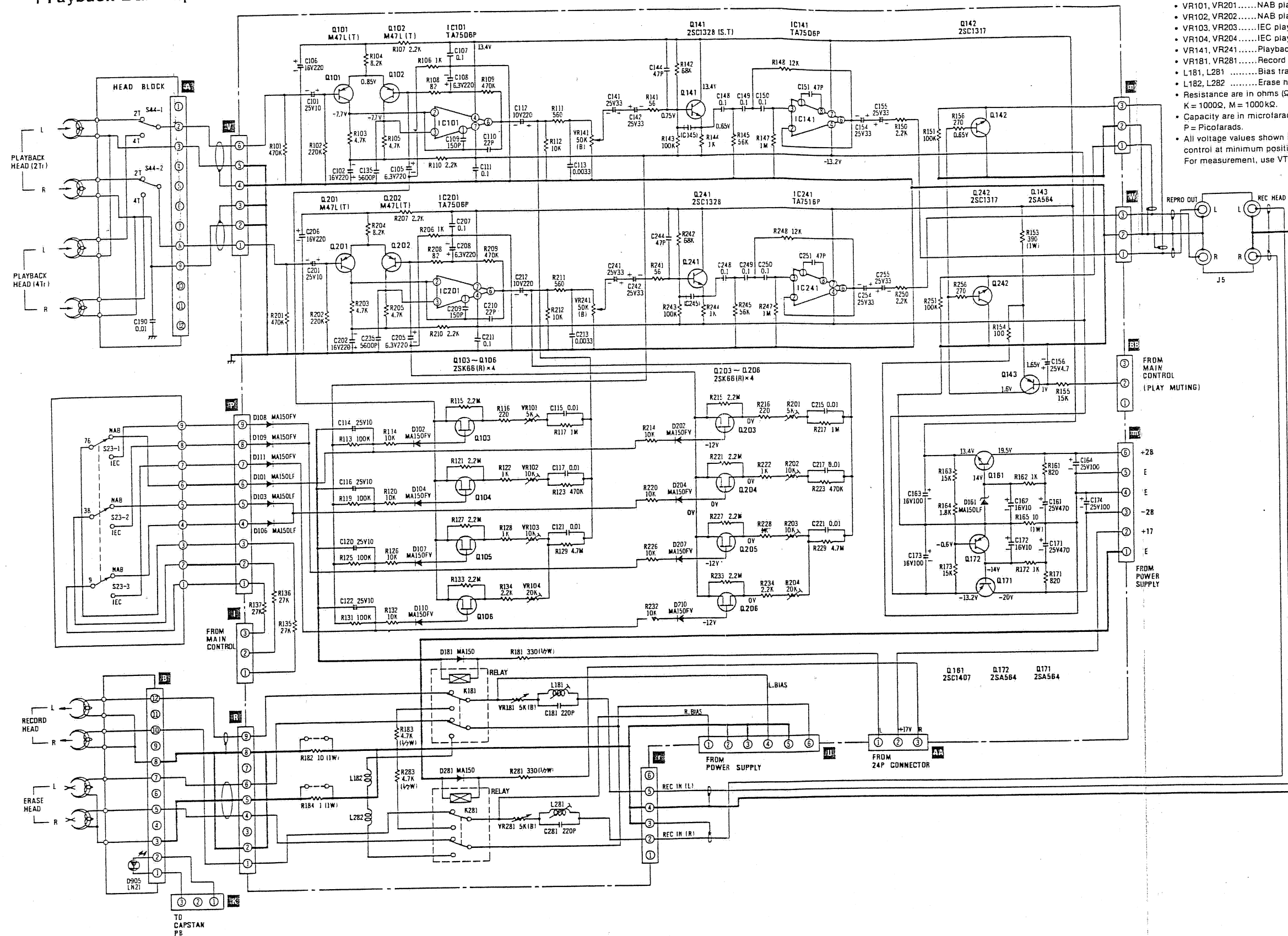
CIRCUIT BOARD

PLAYBACK EQ. AMP CIRCUIT BOARD



SCHEMATIC DIAGRAM

PI ayback EQ. Amp Section

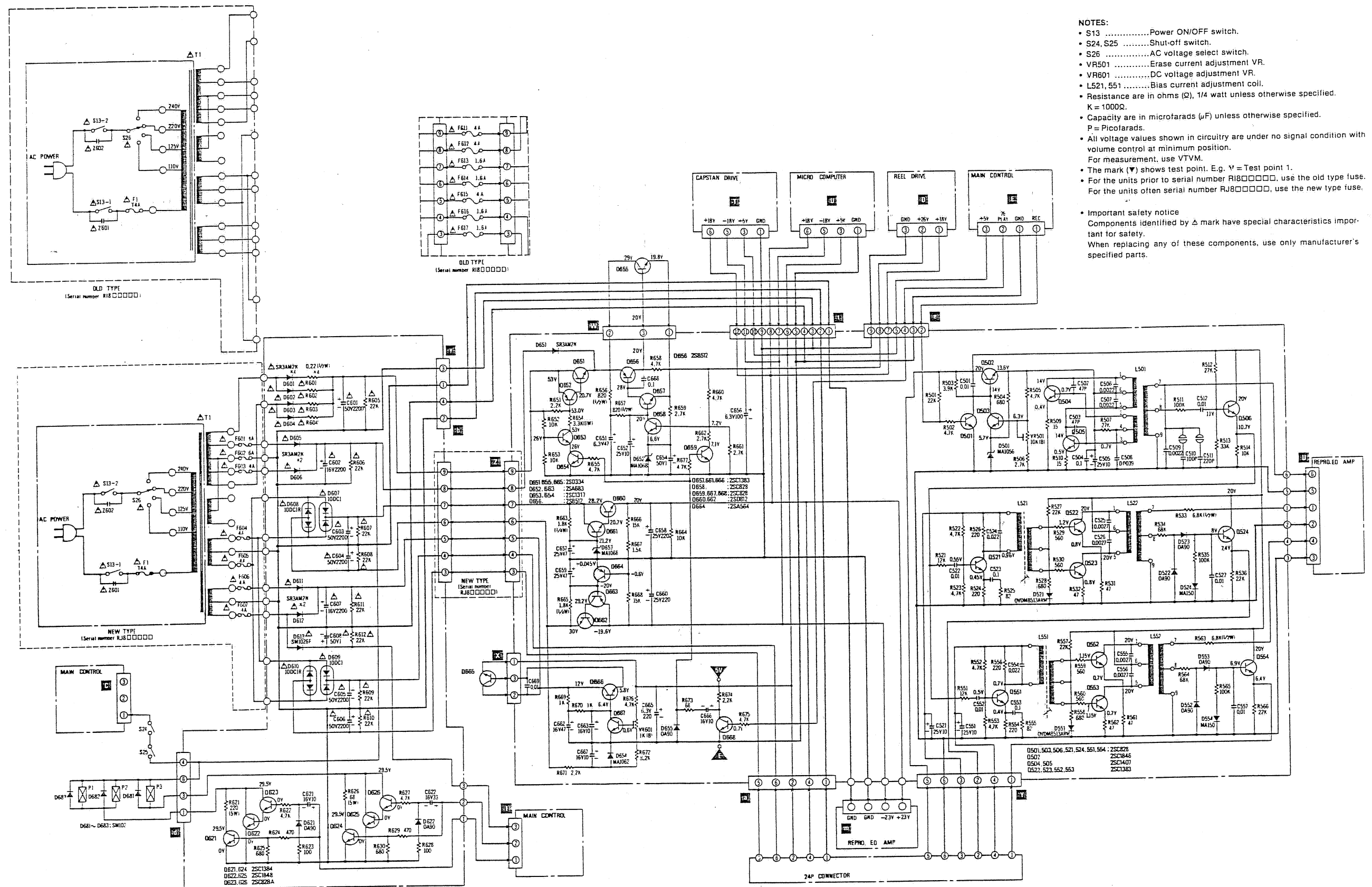


NOTES:

- S23 Playback equalizer NAB/IEC select switch.
[Shown in NAB position].
- S44 Head select switch.
[Shown in 2 track position].
- VR101, VR201 NAB playback equalization adjustment VR at 76 cm/s.
- VR102, VR202 NAB playback equalization adjustment VR at 38 and 19 cm/s.
- VR103, VR203 IEC playback equalization adjustment VR at 76 and 38 cm/s.
- VR104, VR204 IEC playback equalization adjustment VR at 19 cm/s.
- VR141, VR241 Playback output adjustment VR (PLAY CAL).
- VR181, VR281 Record level adjustment VR (REC CAL).
- L181, L281 Bias trap coil.
- L182, L282 Erase head dummy coil.
- Resistance are in ohms (Ω), 1/4 watt unless otherwise specified.
- K = 1000 Ω , M = 1000k Ω .
- Capacity are in microfarads (μ F) unless otherwise specified.
- P = Picofarads.
- All voltage values shown in circuitry are under no signal condition with volume control at minimum position.
- For measurement, use VTVM.

SCHEMATIC DIAGRAM

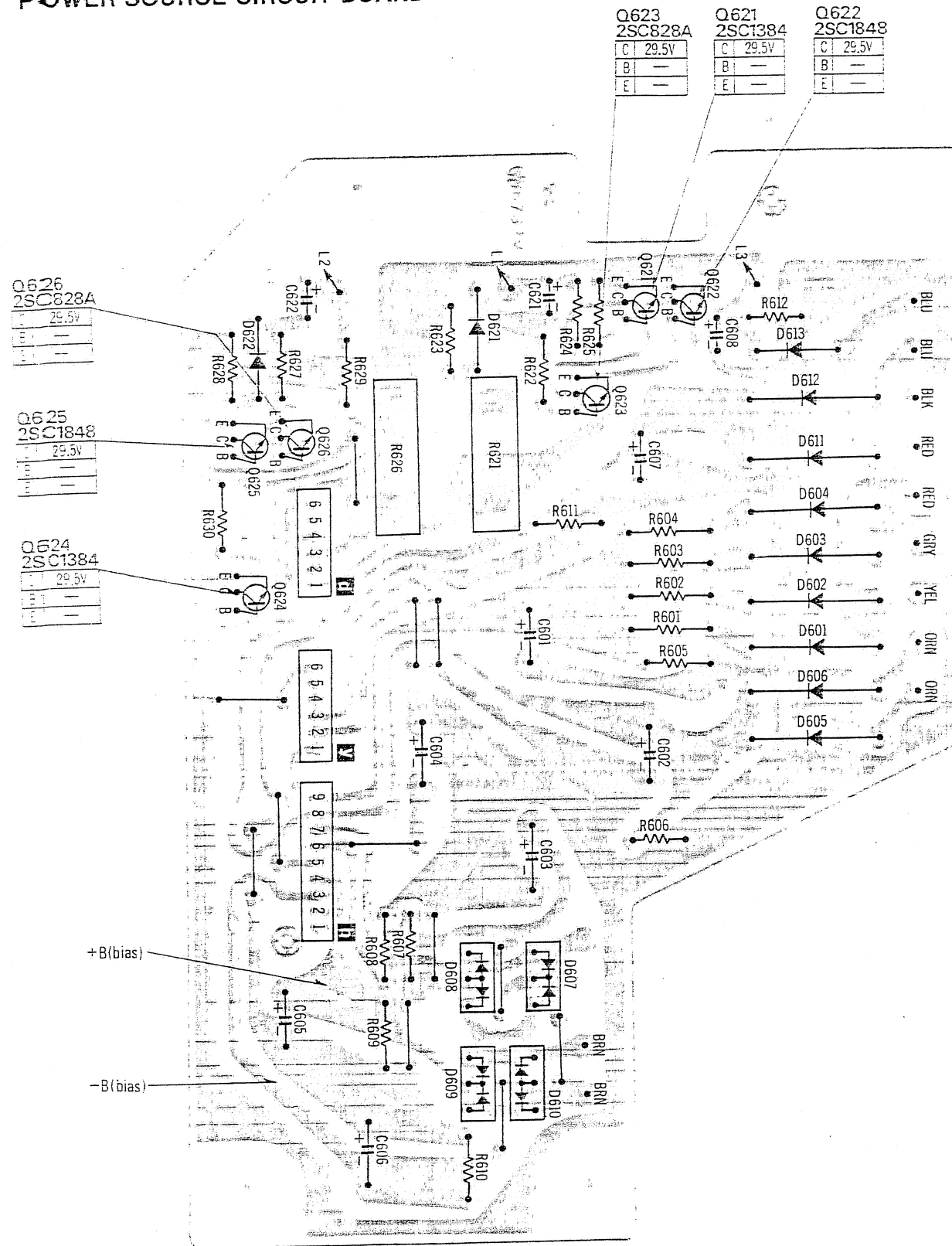
Power Supply and Bias OSC Section



NOTES:

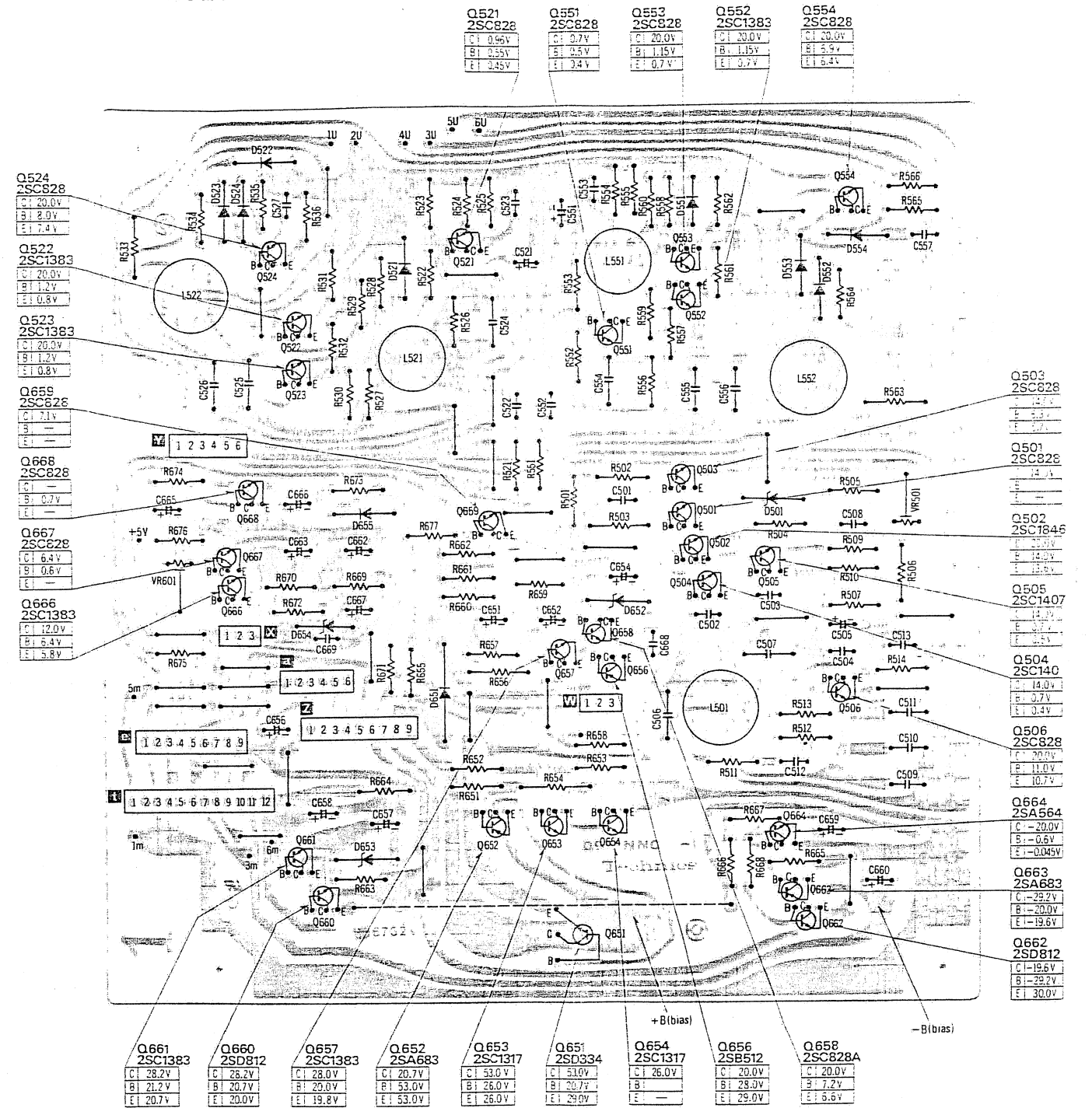
- S13 Power ON/OFF switch.
- S24, S25 Shut-off switch.
- S26 AC voltage select switch.
- VR501 Erase current adjustment VR.
- VR601 DC voltage adjustment VR.
- L521, 551 Bias current adjustment coil.
- Resistance are in ohms (Ω), 1/4 watt unless otherwise specified.
K = 1000 Ω .
- Capacity are in microfarads (μ F) unless otherwise specified.
P = Picofarads.
- All voltage values shown in circuitry are under no signal condition with volume control at minimum position.
For measurement, use VTM.
- The mark (T) shows test point. E.g. T = Test point 1.
- For the units prior to serial number R1800000, use the old type fuse.
For the units often serial number RJ800000, use the new type fuse.
- Important safety notice
Components identified by Δ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.

CIRCUIT BOARD
POWER SOURCE CIRCUIT BOARD



- NOTES:**
- The circuit shown in  on the conductor indicates printed circuit on the front side of the printed circuit board.
 - Values indicated in  are DC voltage between the ground and electrical parts.

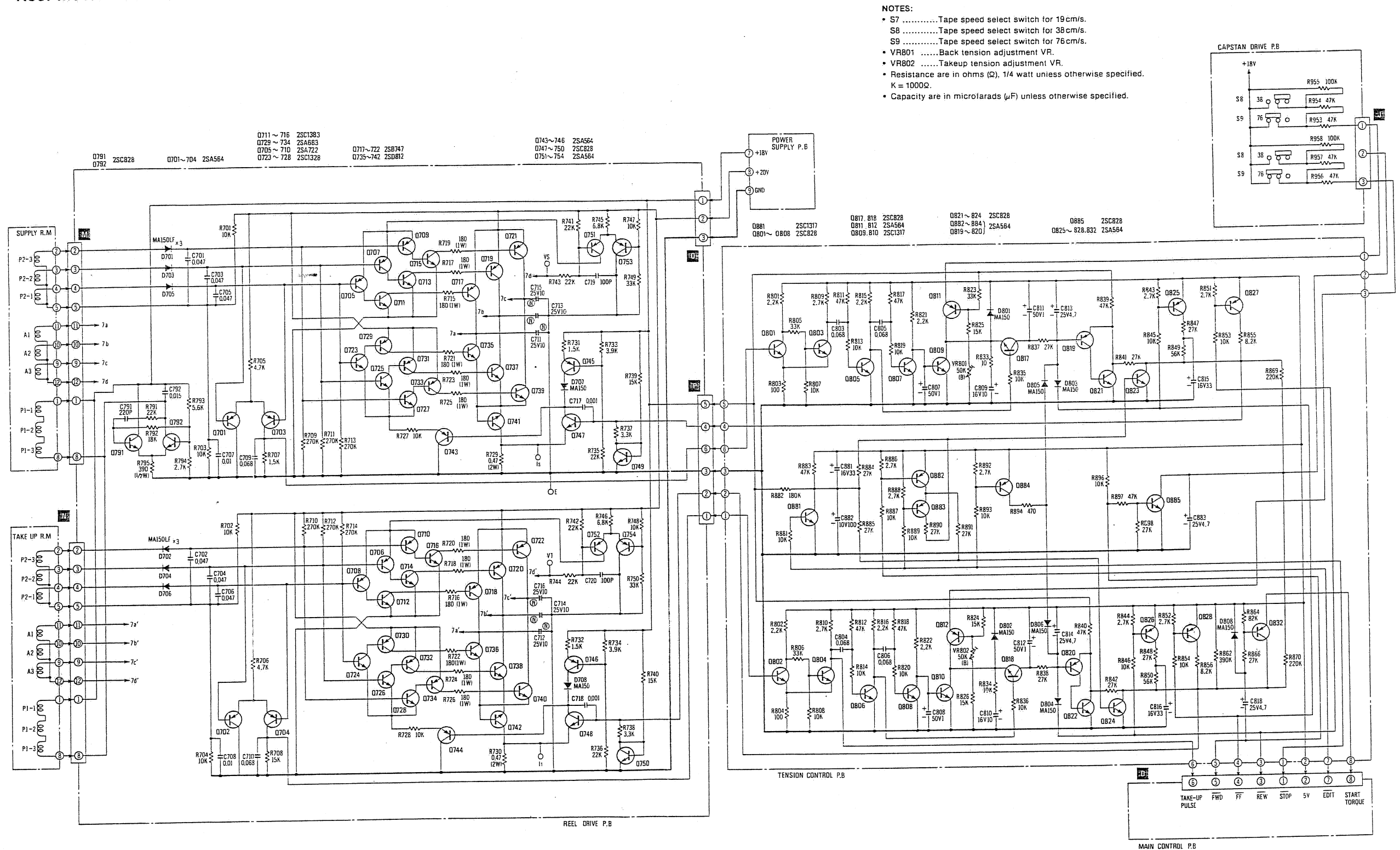
POWER SOURCE AND BIAS OSC CIRCUIT BOARD



- NOTES:
- The circuit shown in Figure 1 on the conductor indicates printed circuit on the front side of the printed circuit board.
 - Values indicated in Table 1 are DC voltage between the ground and electrical parts.

SCHEMATIC DIAGRAM

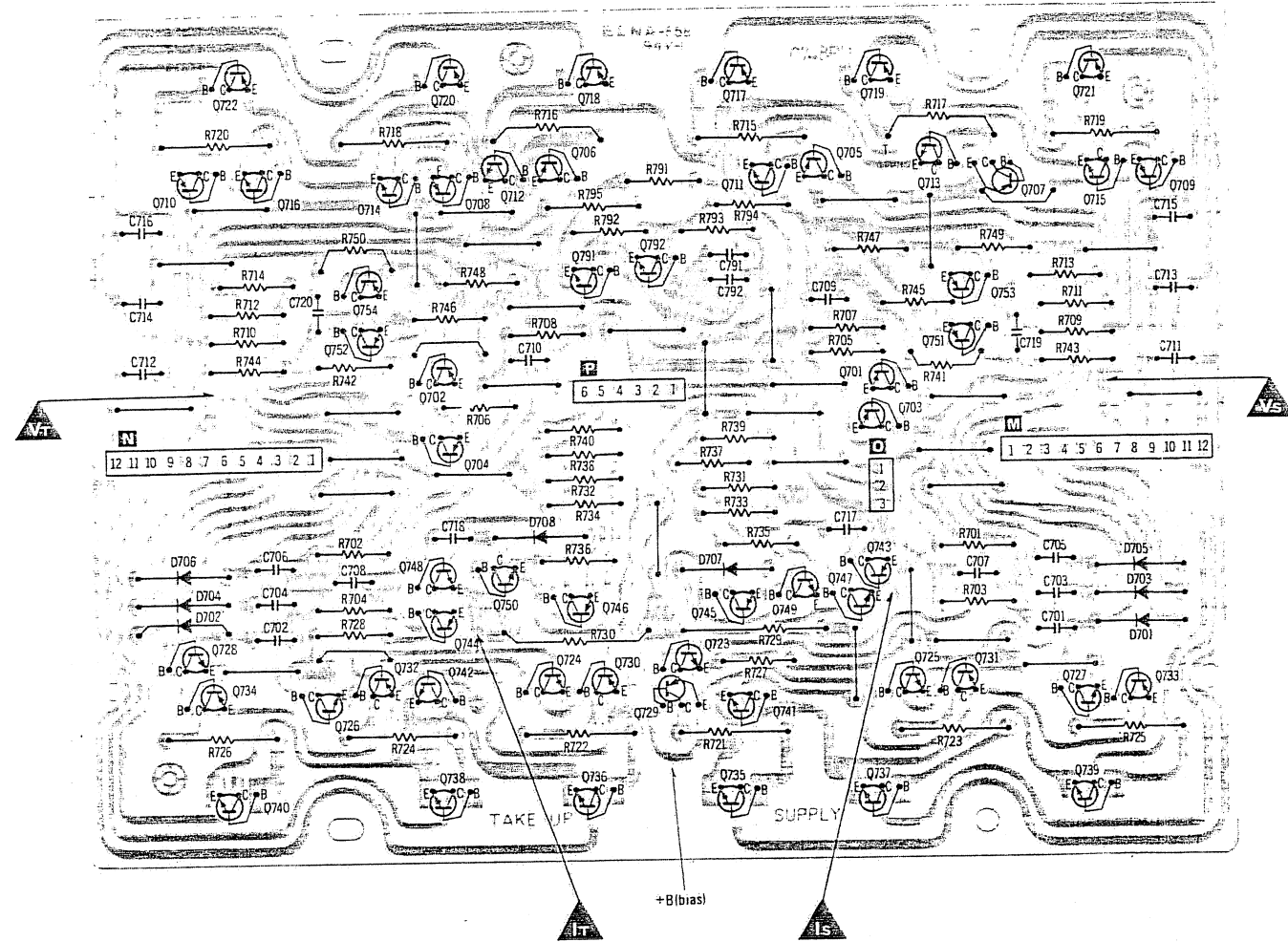
Reel Motor Section



CIRCUIT BOARD

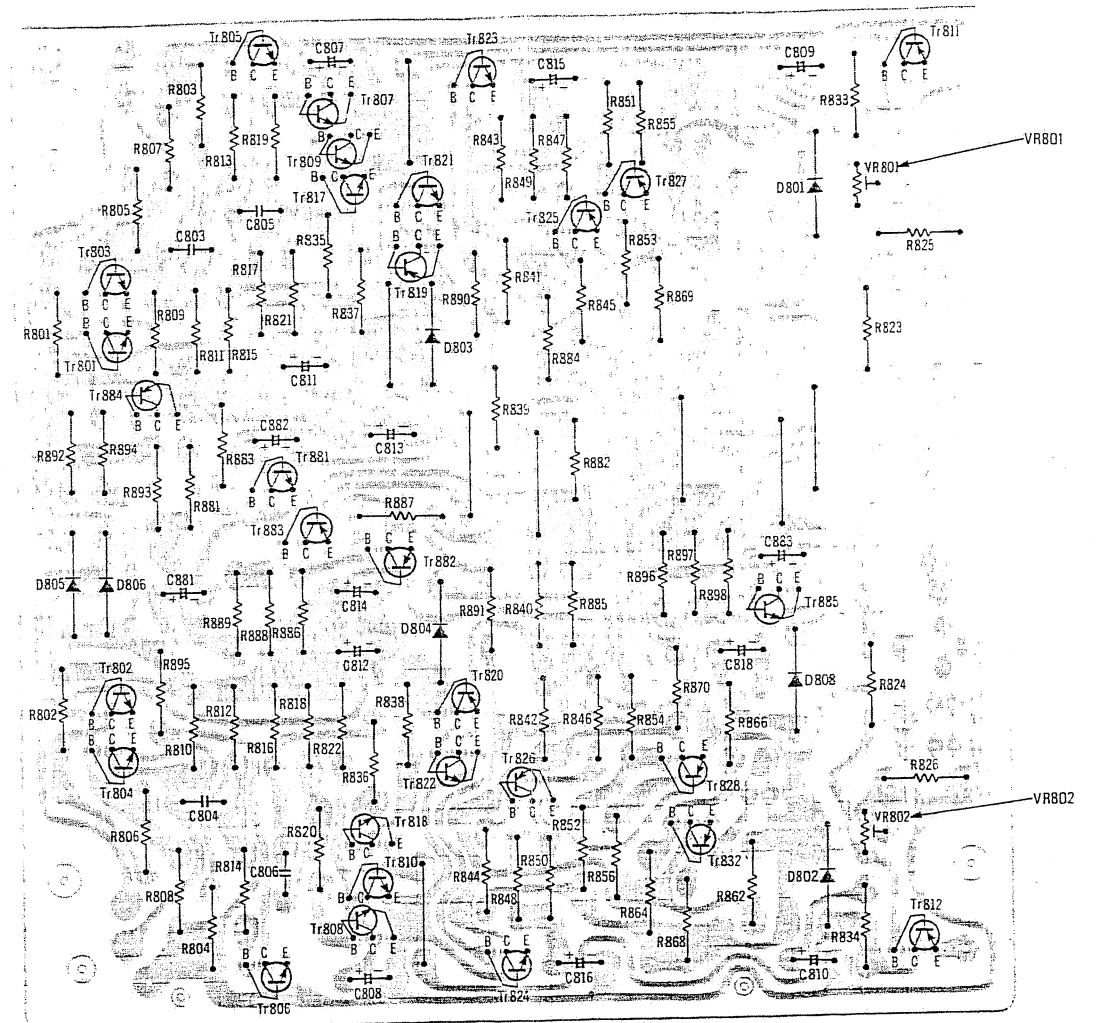
REEL MOTOR DRIVING CIRCUIT BOARD

Reel Motor Driving



NOTE:
• The circuit shown in  on the conductor indicates printed circuit on the front side of the printed circuit board.

TENSION CONTROL CIRCUIT BOARD



NOTE:
• The circuit shown in  on the conductor indicates printed circuit on the front side of the printed circuit board.

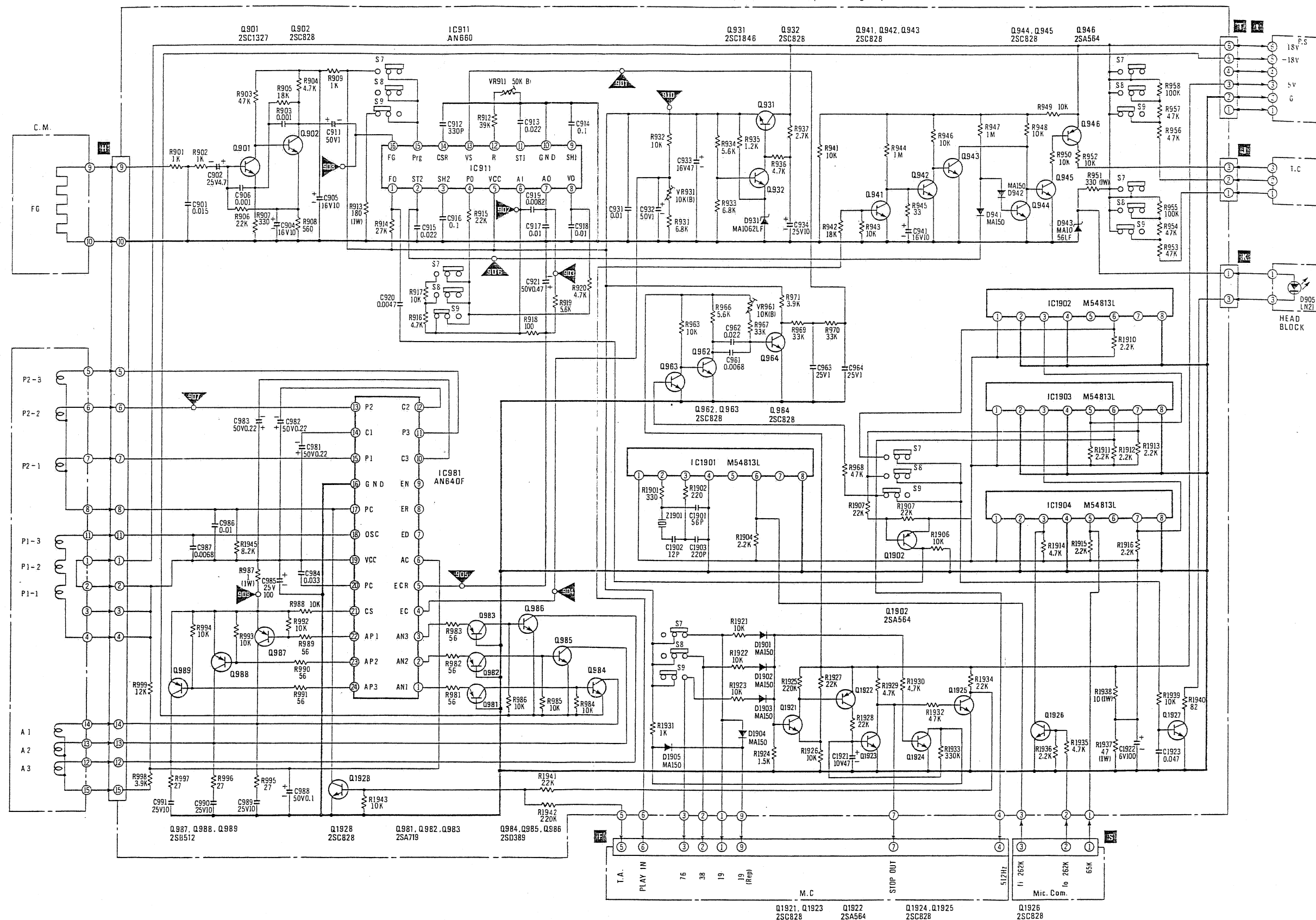
SCHEMATIC DIAGRAM

Capstan Motor Section

NOTES:

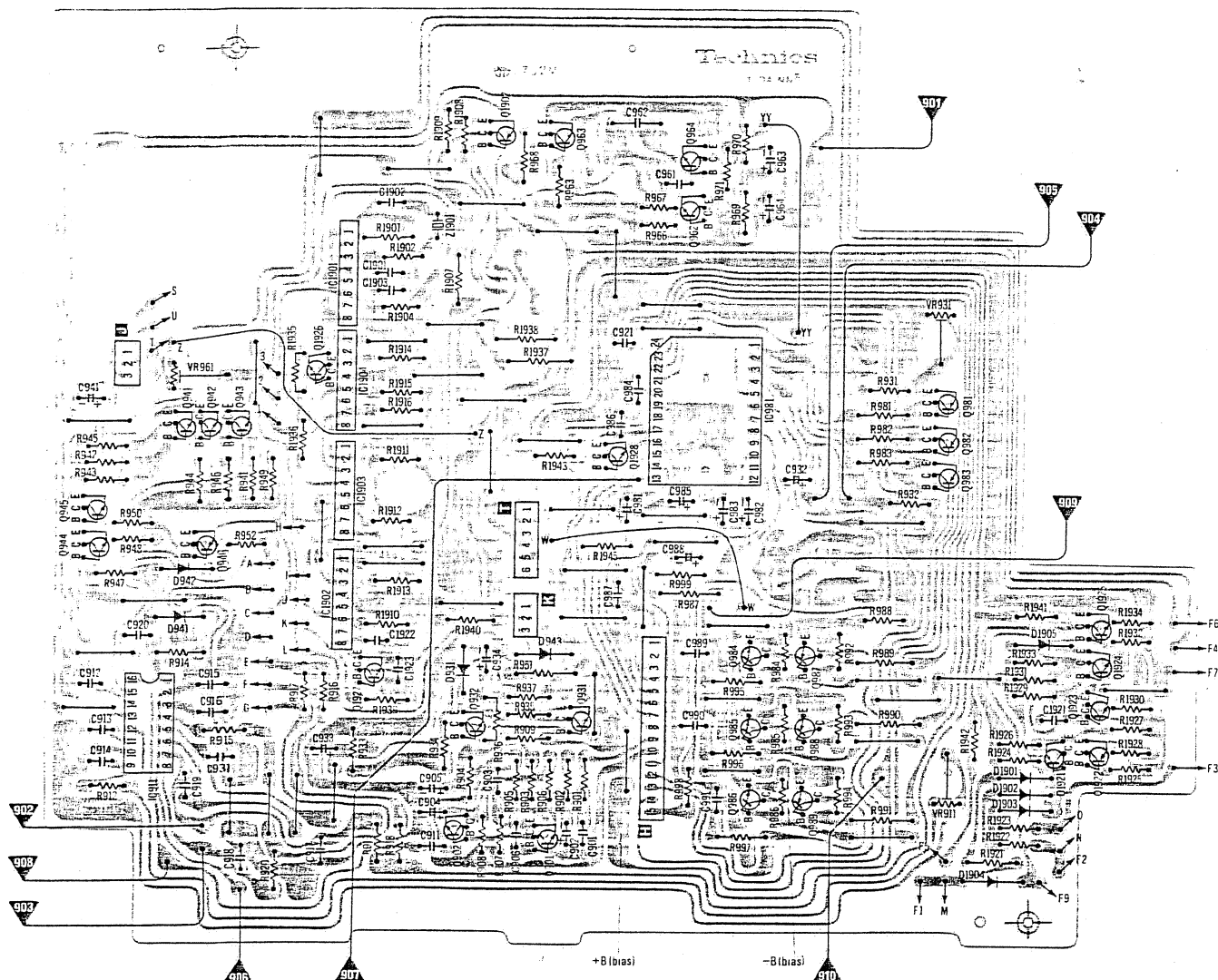
- S7Tape speed select switch for 19cm/s.
- S8Tape speed select switch for 38cm/s.
- S9Tape speed select switch for 76cm/s.
- [Shown in 76cm/s position].
- VR911Phase lock point adjustment VR.
- VR931Standard DC power voltage adjustment VR for torque control.
- VR961Standard DC power voltage adjustment VR for speed control.

- Resistance are in ohms (Ω), 1/4 watt unless otherwise specified.
- K = 1000 Ω , M = 1000K Ω .
- Capacity are in microfarads (μ F) unless otherwise.
- P = Picofarads.
- The mark (V) shows test point. E.g. V = Test point 1.



CIRCUIT BOARD

CAPSTAN DRIVE CIRCUIT BOARD

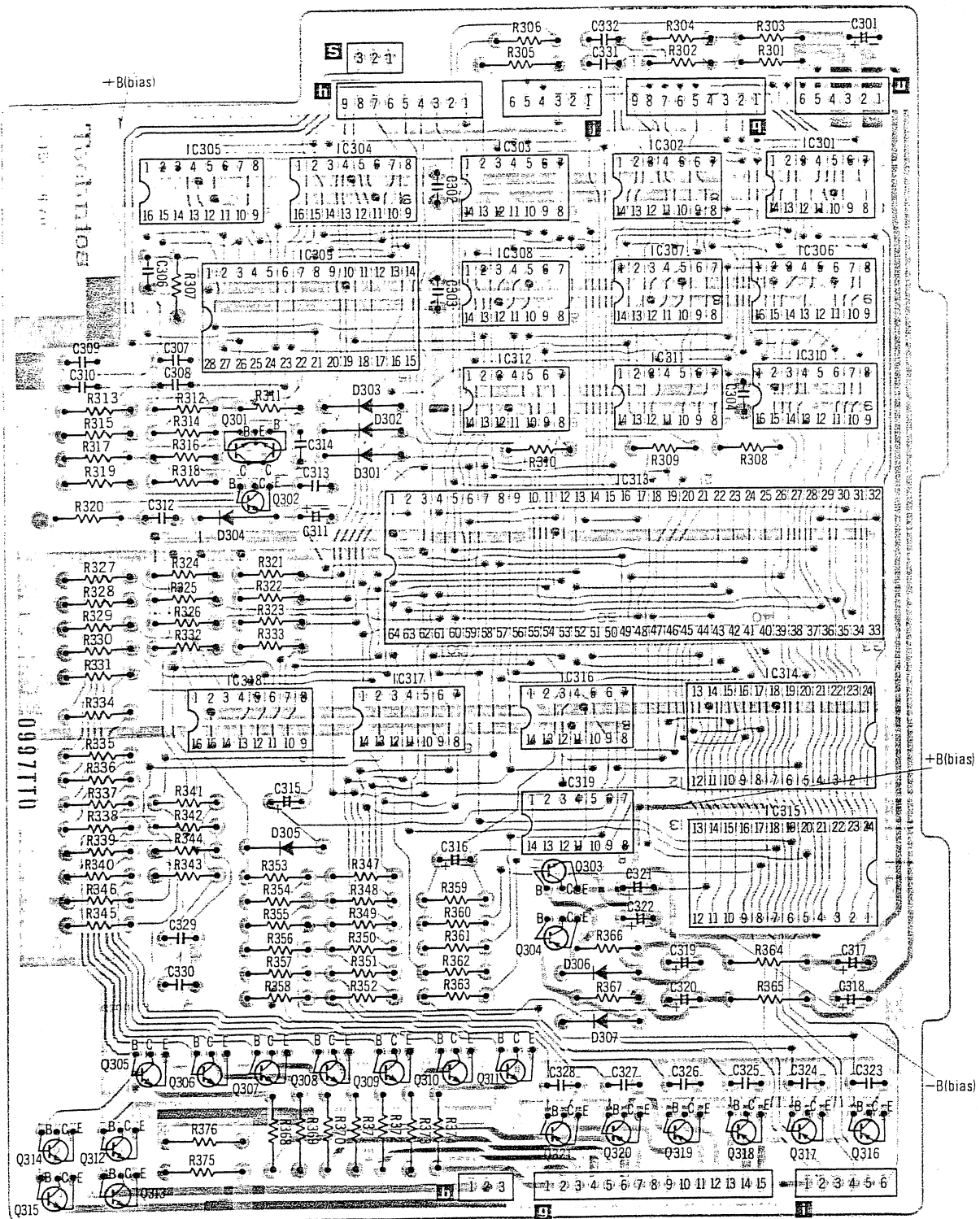


NOTE:

- The circuit shown in on the conductor indicates printed circuit on the front side of the printed circuit board.

CIRCUIT BOARD

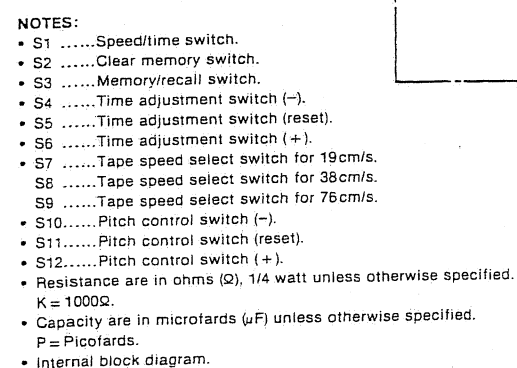
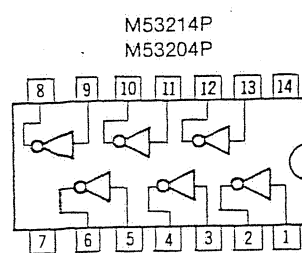
MICRO COMPUTER CIRCUIT BOARD



NOTES:

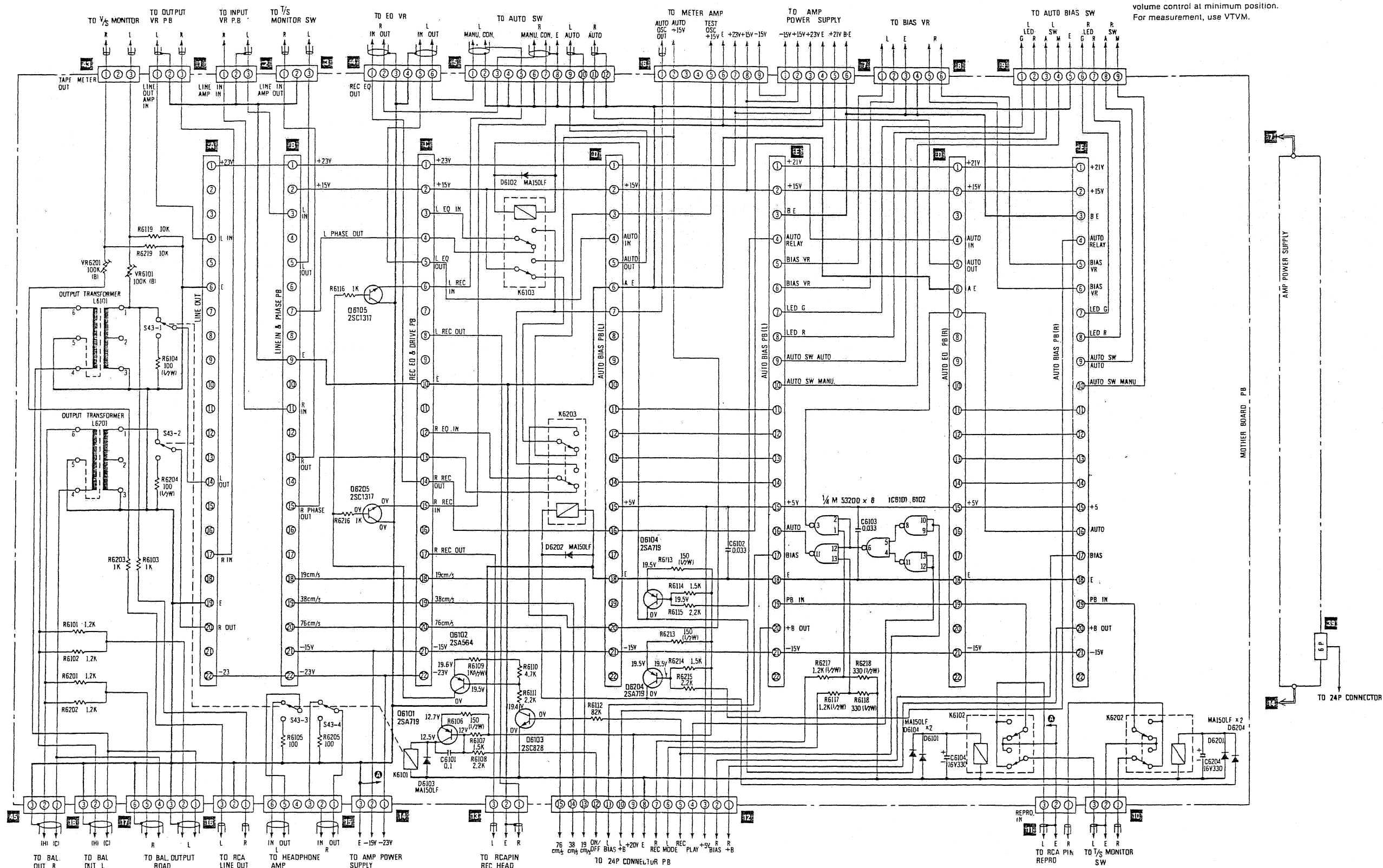
- The circuit shown in  on the conductor indicates printed circuit on the front side of the printed circuit board.
- The circuit shown in  on the conductor indicates printed circuit on the back side of the printed circuit board.
- The symbols (•) indicate connection points between conductors on the front side and back side of the circuit board.

EQUIVALENT CIRCUIT



SCHEMATIC DIAGRAM

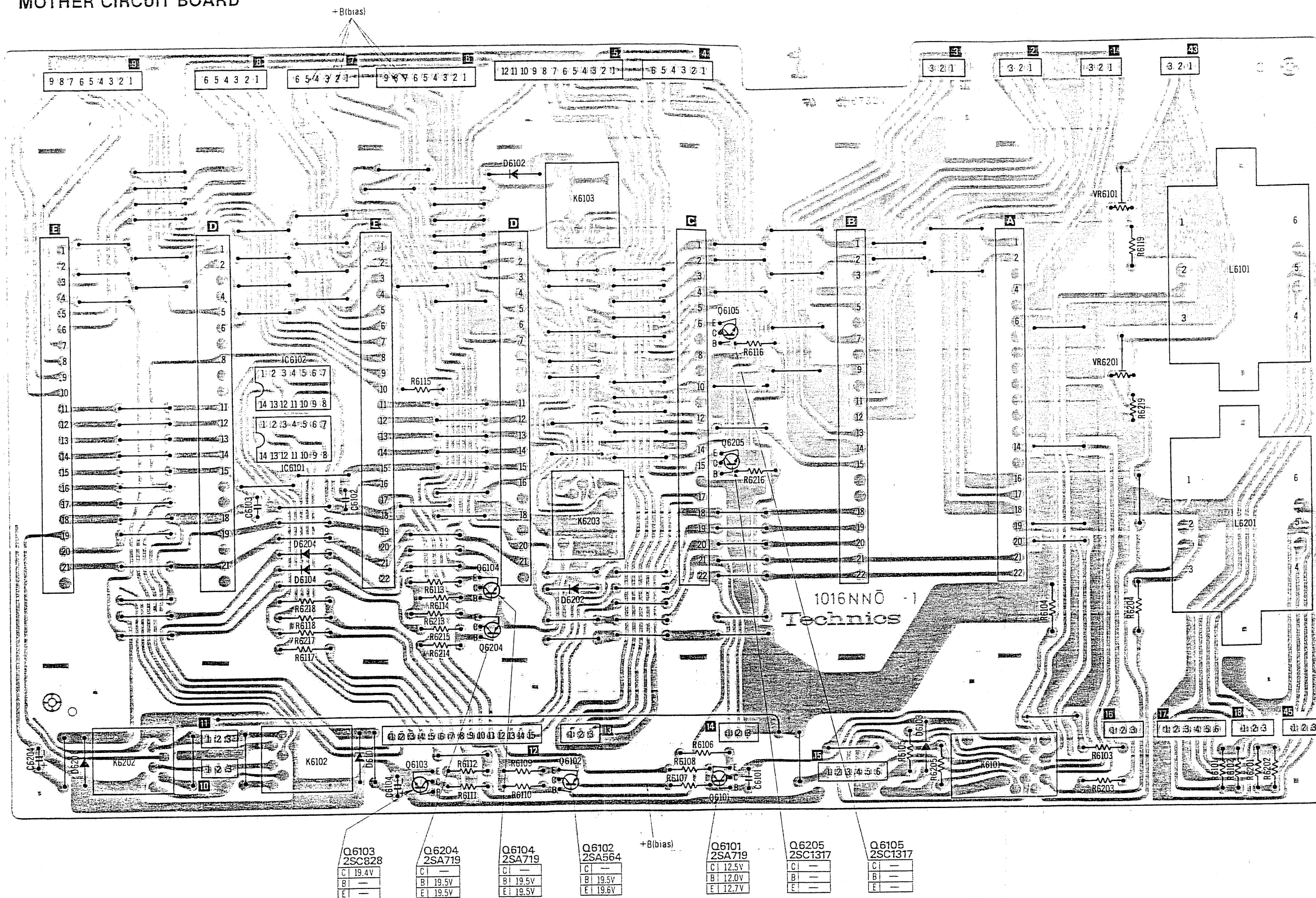
Mother Board Section



- NOTES:**
- S43-1—S43-4 Load Impedance Selector.
 - VR6101, VR6201 Meter indication adjustment VR at tape monitor.
 - Resistance are in ohms (Ω), 1/4 watt unless otherwise specified.
K = 1000 Ω .
 - Capacity are in microfarads (μF) unless otherwise specified.
P = Picofarads.
 - All voltage values shown in circuitry are under no signal condition with volume control at minimum position.
For measurement, use VTVM.

CIRCUIT BOARD

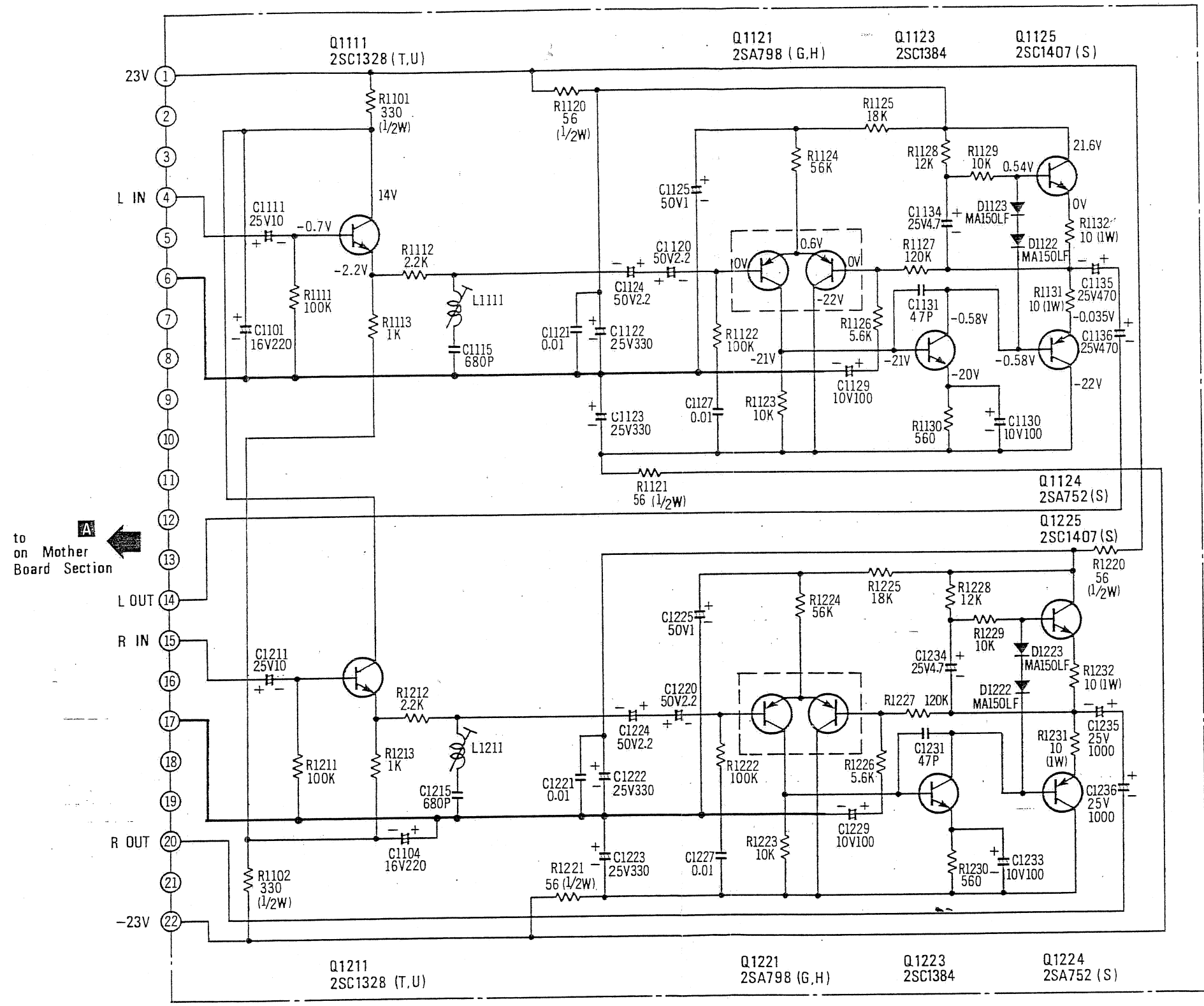
MOTHER CIRCUIT BOARD



- NOTES:
- The circuit shown in on the conductor indicates printed circuit on the front side of the printed circuit board.
 - Values indicated in are DC voltage between the ground and electrical parts.

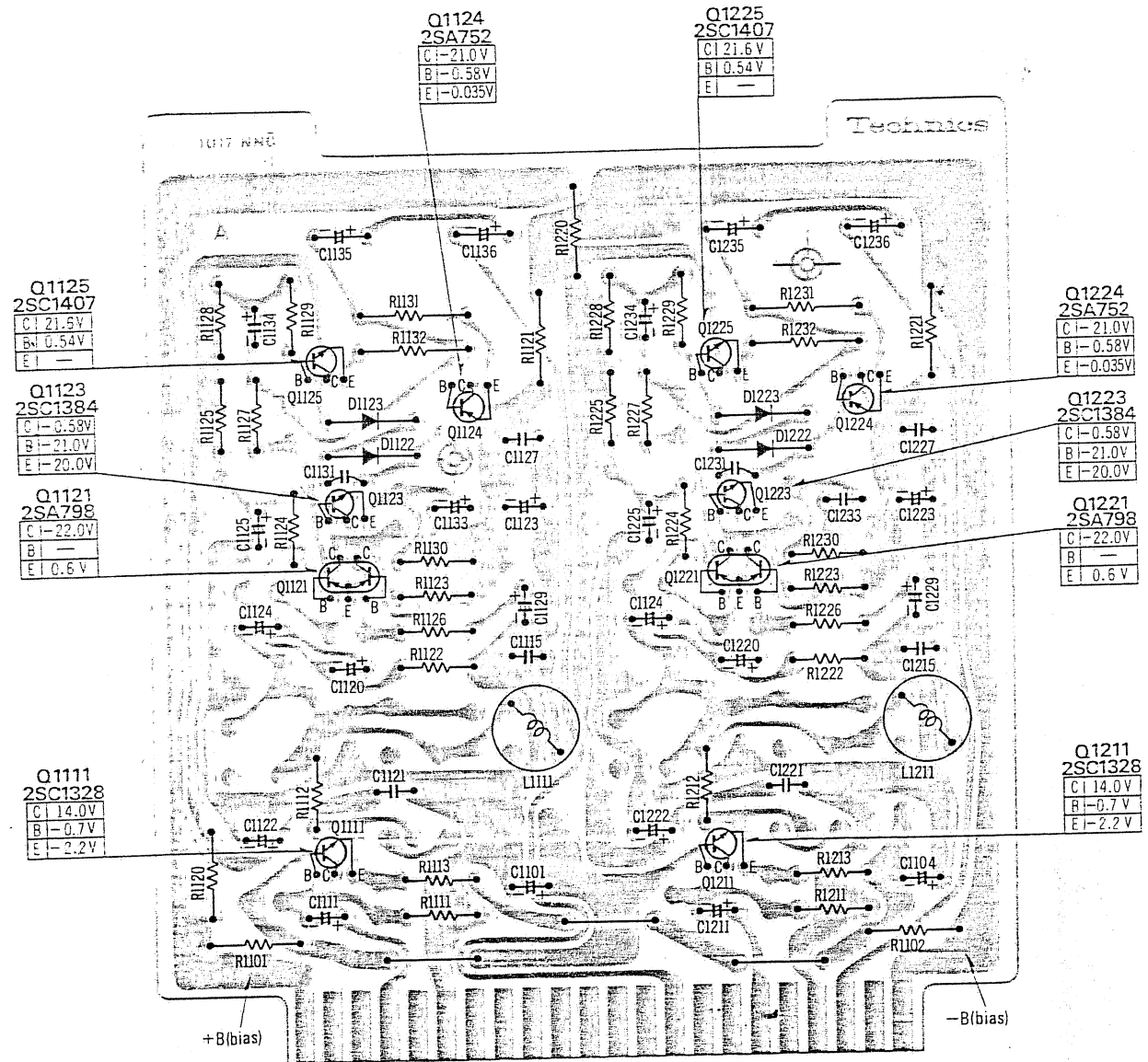
SCHEMATIC DIAGRAM

Line Output Amp Section



CIRCUIT BOARD

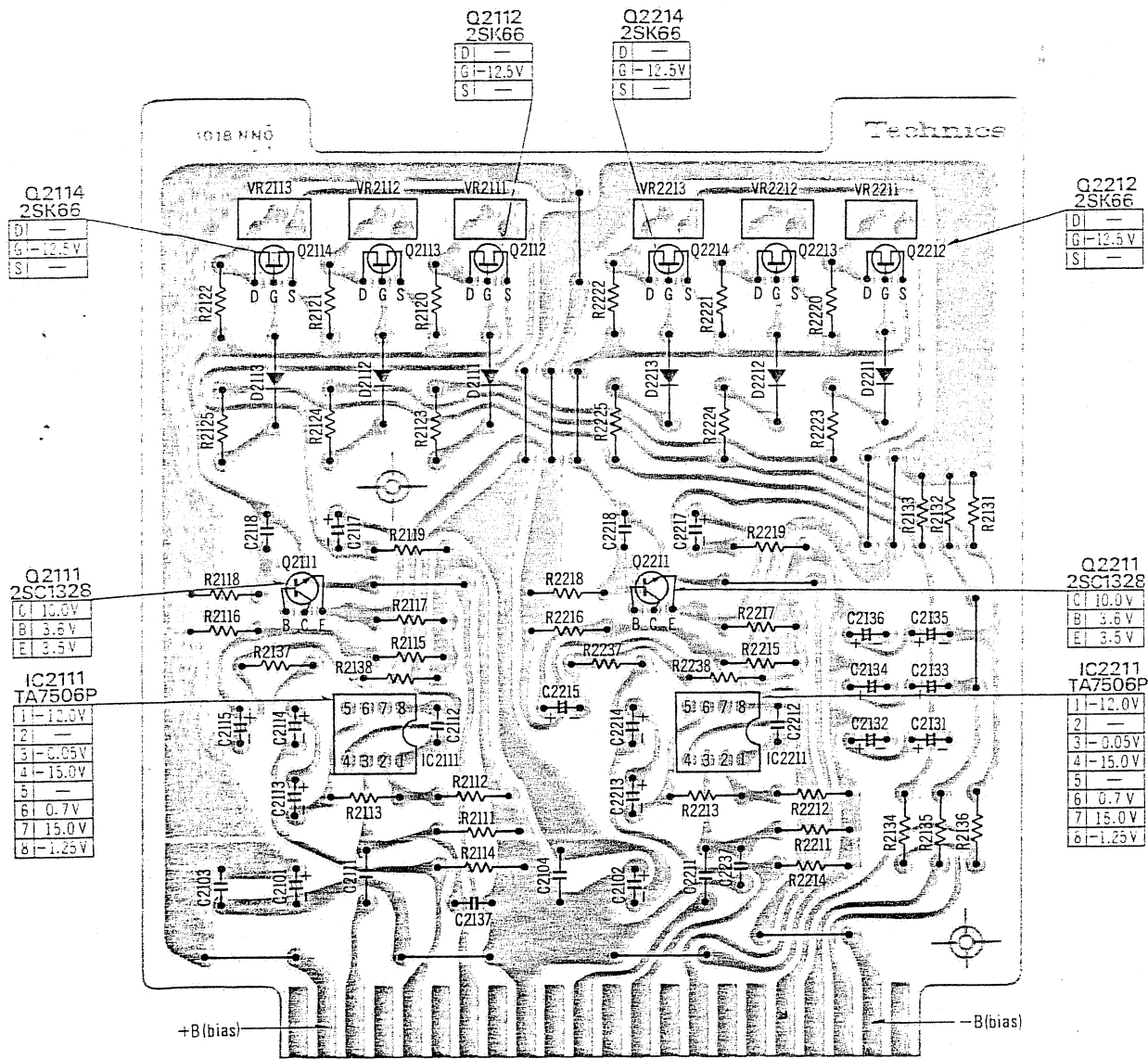
LINE OUTPUT AMP CIRCUIT BOARD



- NOTES:
- The circuit shown in  on the conductor indicates printed circuit on the front side of the printed circuit board.
 - Values indicated in  are DC voltage between the ground and electrical parts.

CIRCUIT BOARD

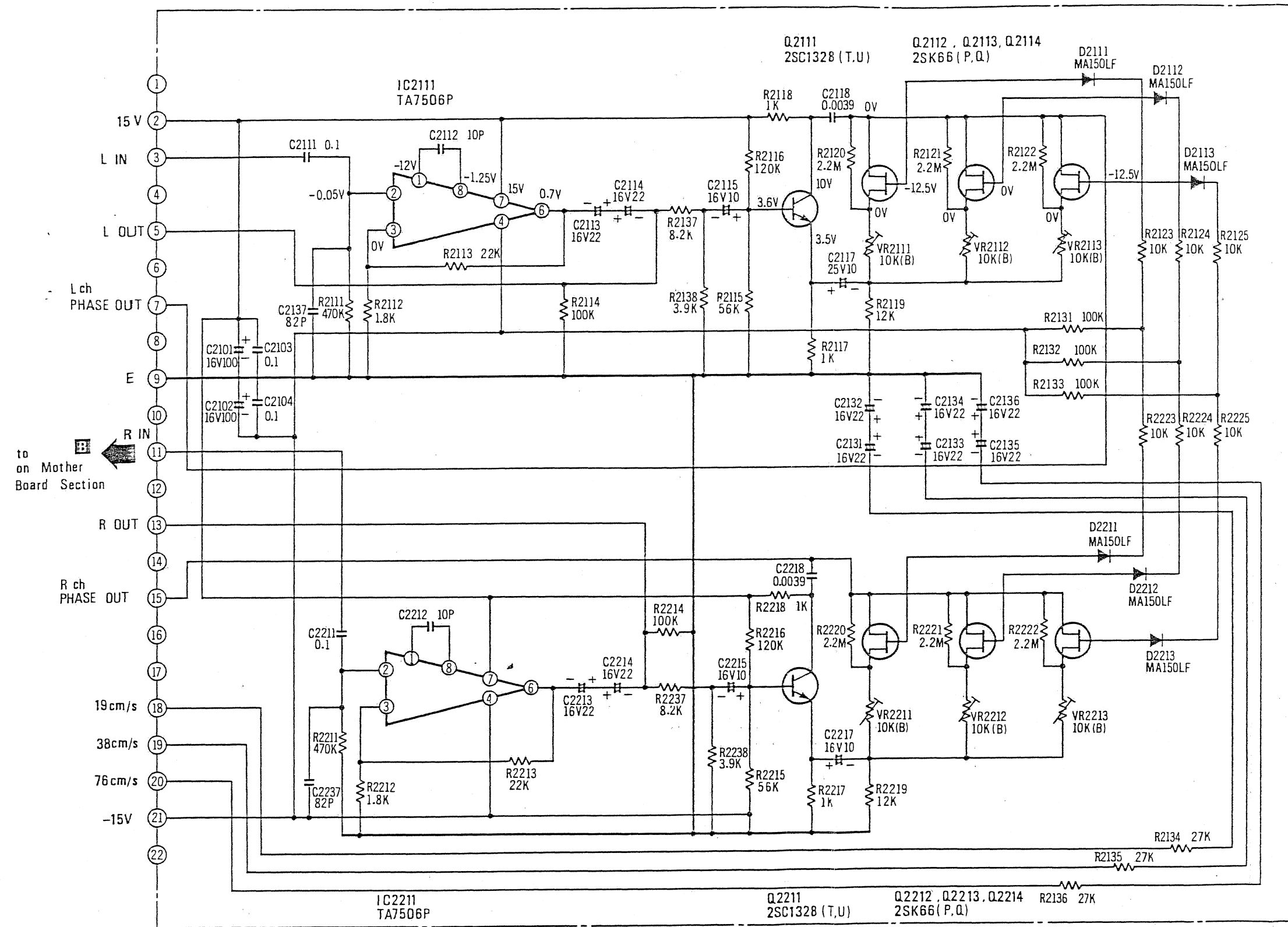
LINE INPUT AND PHASE LINEAR CIRCUIT BOARD



- NOTES:
- The circuit shown in on the conductor indicates printed circuit on the front side of the printed circuit board.
 - Values indicated in are DC voltage between the ground and electrical parts.

SCHEMATIC DIAGRAM

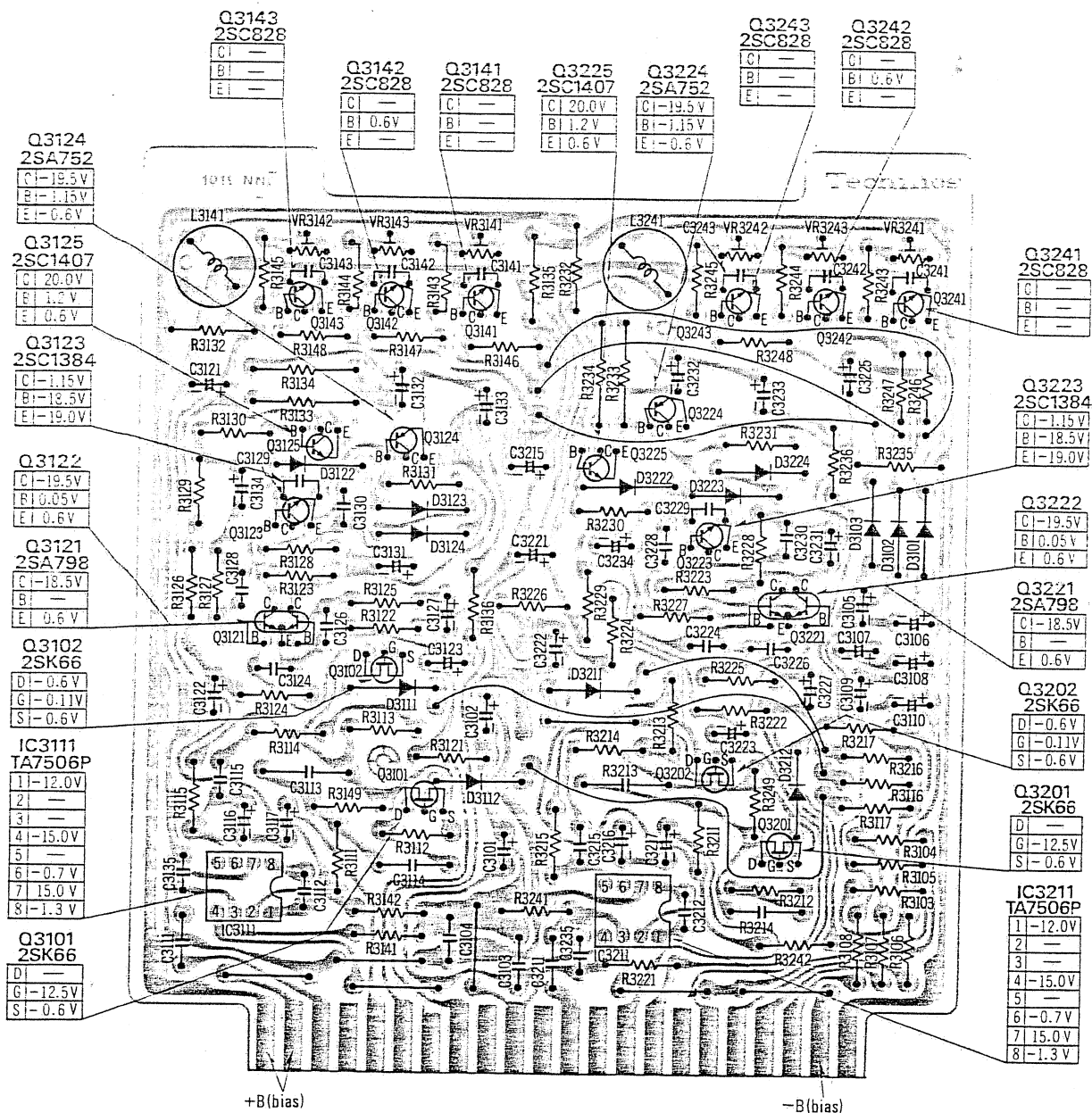
Line Input and Phase Linear Section



- NOTES:
- VR2111, VR2211.....Overall signal wave phase linearity adjustment VR at 76cm/s.
 - VR2112, VR2212.....Overall signal wave phase linearity adjustment VR at 38cm/s.
 - VR2113, VR2213.....Overall signal wave phase linearity adjustment VR at 19cm/s.
 - Resistance are in ohms (Ω), 1/4 watt unless otherwise specified.
 - K = 1000 Ω .
 - Capacity are in microfarads (μ F) unless otherwise specified.
 - P = Picofarads.
 - All voltage values shown in circuitry are under no signal condition with volume control at minimum position.
 - For measurement, use VTVM.

CIRCUIT BOARD

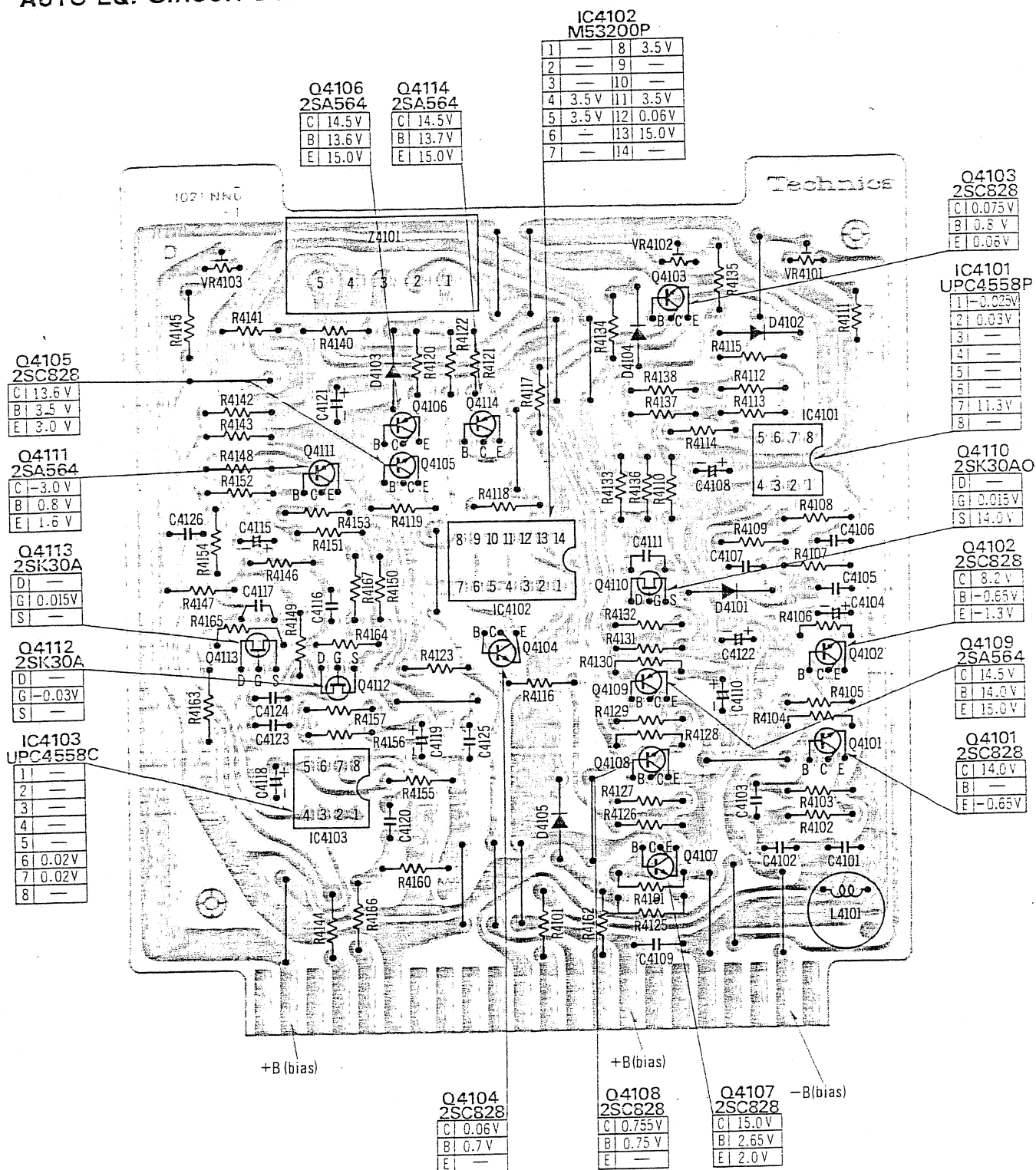
REC EQ. AND DRIVE CIRCUIT BOARD



NOTES:

- The circuit shown in  on the conductor indicates printed circuit on the front side of the printed circuit board.
- Values indicated in  are DC voltage between the ground and electrical parts.

CIRCUIT BOARD
AUTO EQ. CIRCUIT BOARD



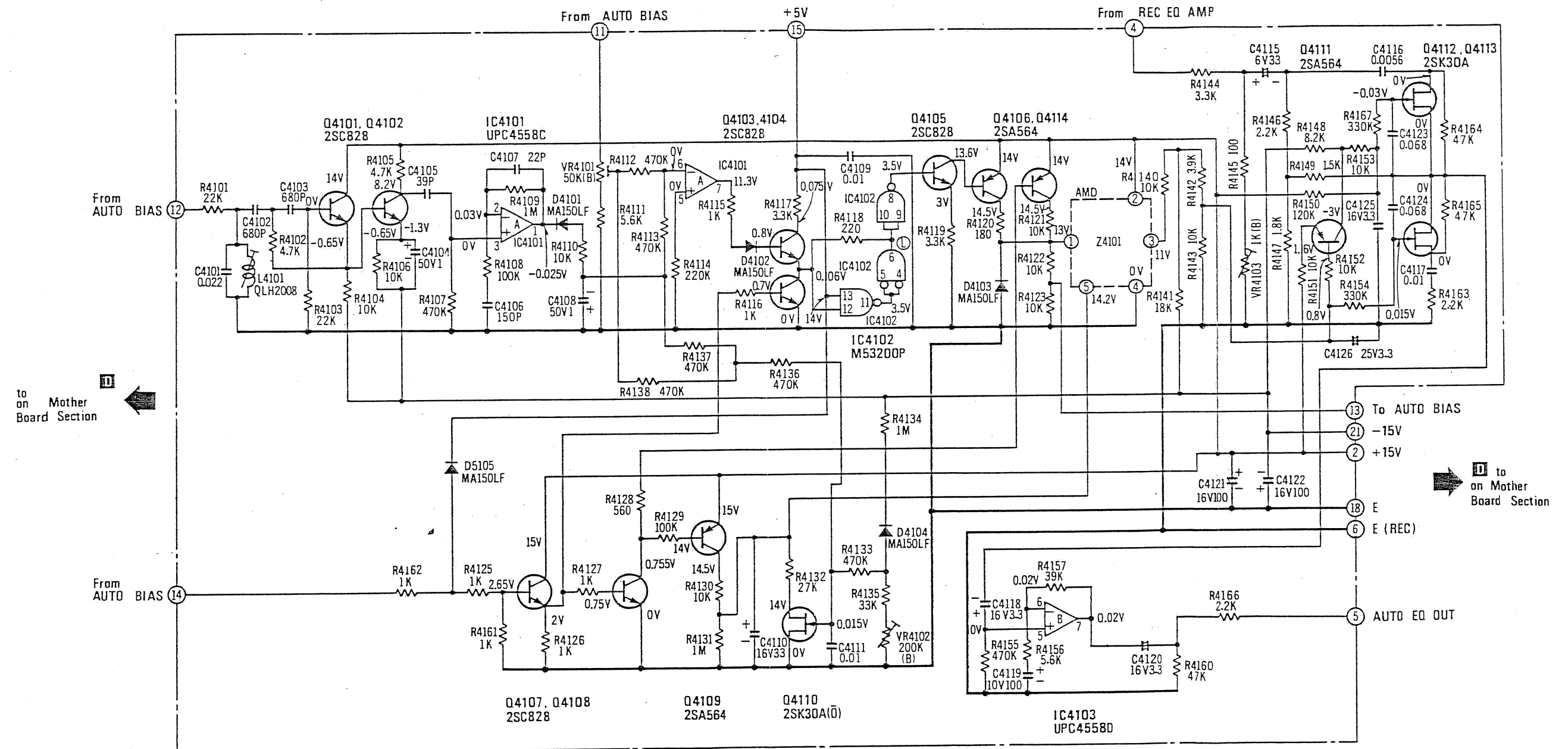
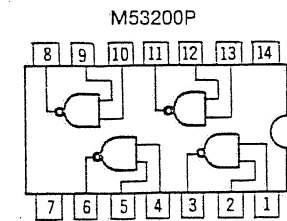
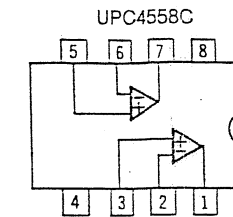
- NOTES:**
- The circuit shown in  on the conductor indicates printed circuit on the front side of the printed circuit board.
 - Values indicated in  are DC voltage between the ground and electrical parts.

SCHEMATIC DIAGRAM

Au to EQ. Section

- NOTES:
- VR4101 Overall frequency response adjustment VR at auto bias/equalizer mode.
 - VR4102 LED flushing time adjustment VR at auto/equalization condition.
 - VR4103 Overall gain adjustment VR at auto bias/equalizer mode.
 - L4101 Trap coil (for bias harmonic frequency).
 - Resistance are in ohms (Ω), 1/4 watt unless otherwise specified.
 - K = 1000 Ω , M = 1000k Ω .
 - Capacity are in microfarads (μ F) unless otherwise specified.
 - P = Picofarads.
 - All voltage values shown in circuitry are under no signal condition with volume control at minimum position.
 - For measurement, use VTVM.
 - Internal block diagram.

EQUIVALENT CIRCUIT

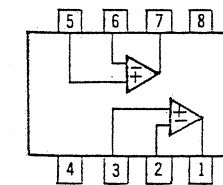


SCHEMATIC DIAGRAM

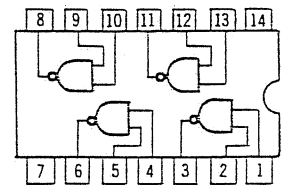
Auto Bias Section

EQUIVALENT CIRCUIT

UPC4558C

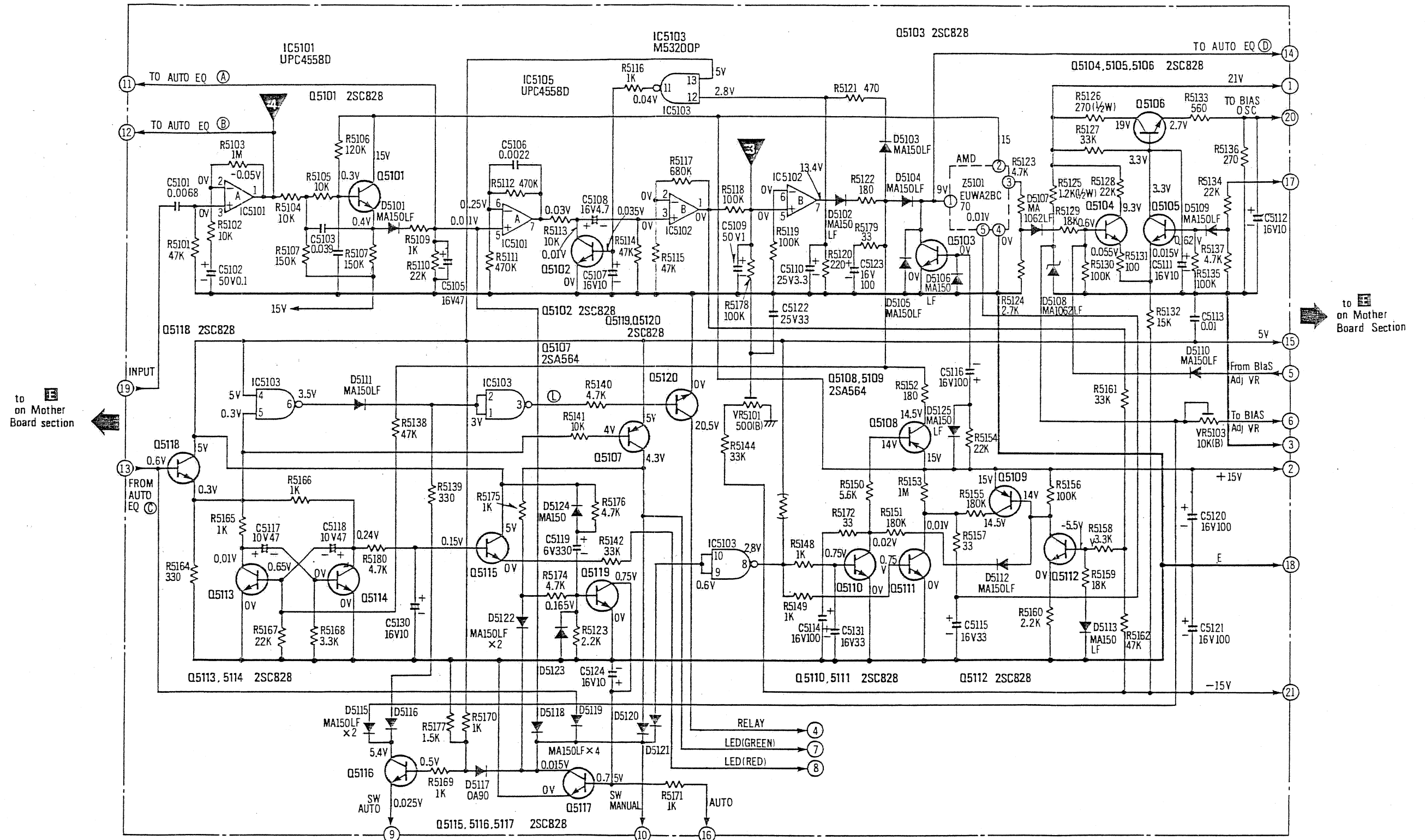


M53200P



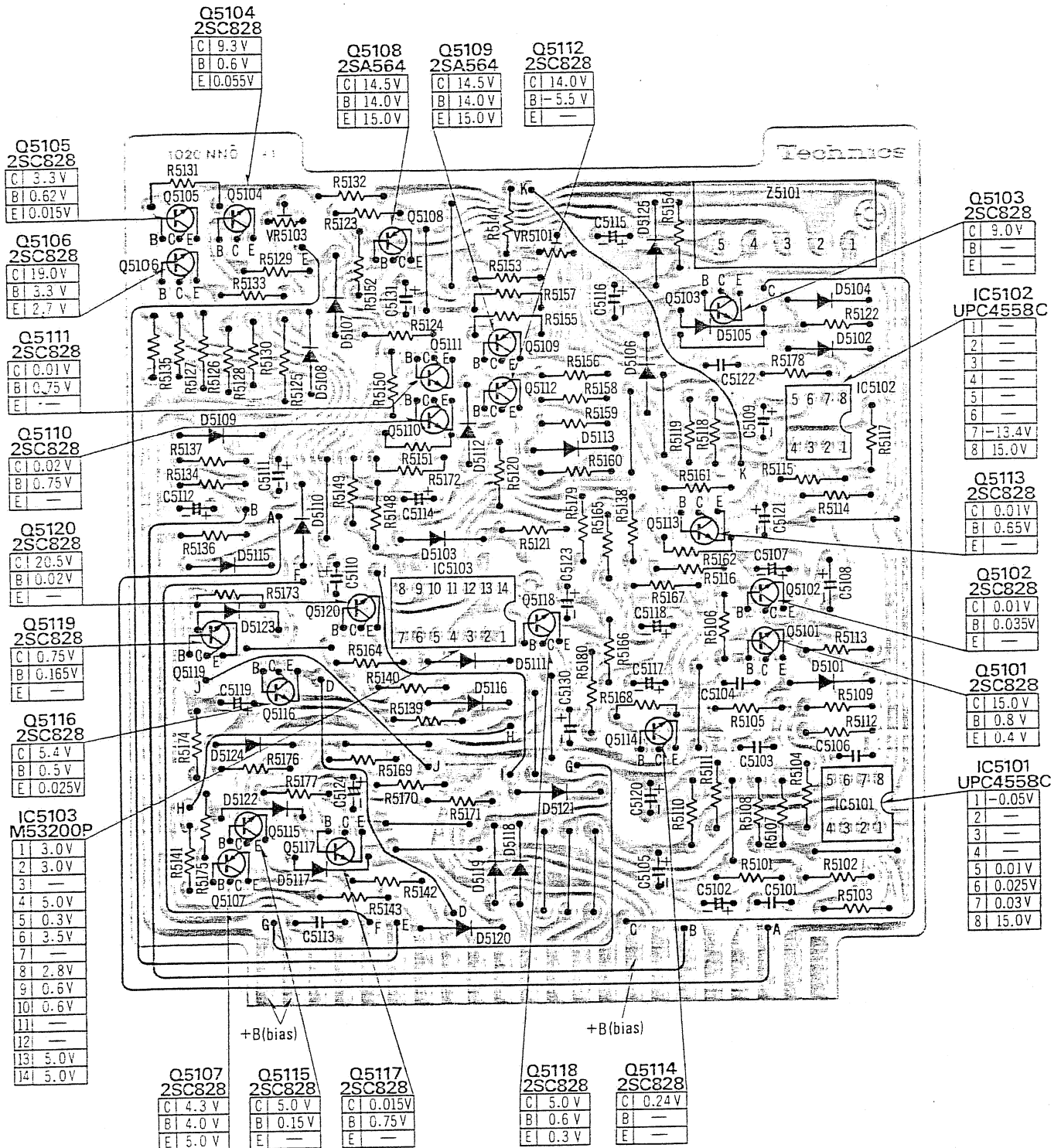
NOTES:

- VR5101.....Auto bias drift adjustment VR.
- VR5103.....Bias current adjustment VR at manual bias/equalizer more.
- Resistance are in ohms (Ω), 1/4 watt unless otherwise specified.
K = 1000 Ω , M = 1000K Ω .
- Capacity are in microfarads (μ F) unless otherwise specified.
P = Picofarads.
- The mark (:) shows test point. E.g. ∇ = Test point 1.
- All voltage values shown in circuitry are under no signal condition with volume control at minimum position.
- For measurement, use VTVM.
- Internal block diagram.



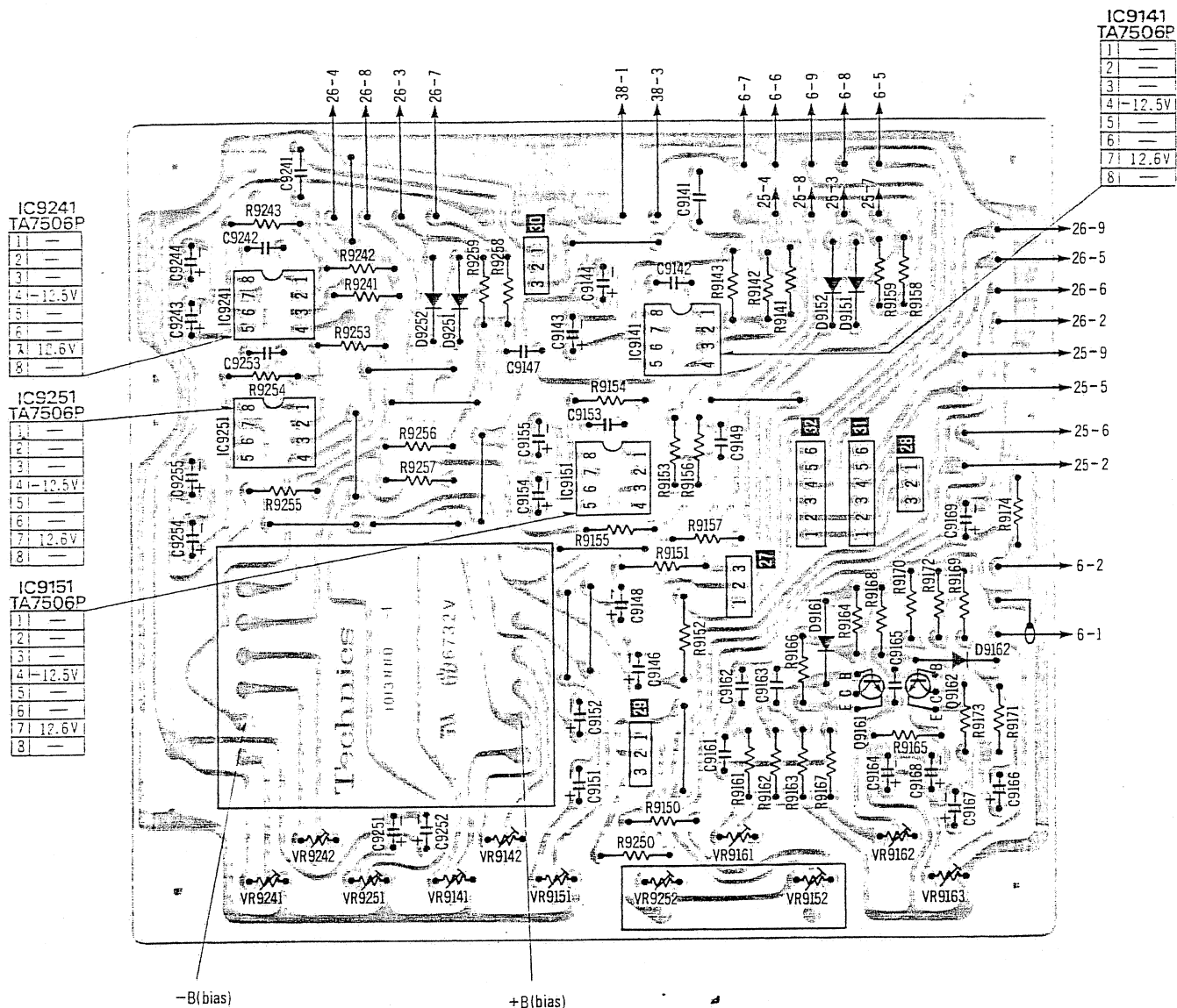
CIRCUIT BOARD

AUTO BIAS CIRCUIT BOARD



CIRCUIT BOARD

METER AND AUTO OSC CIRCUIT BOARD



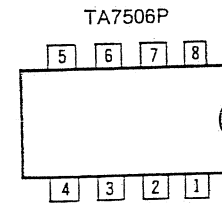
NOTES:

- The circuit shown in  on the conductor indicates printed circuit on the front side of the printed circuit board.
- Values indicated in  are DC voltage between the ground and electrical parts.

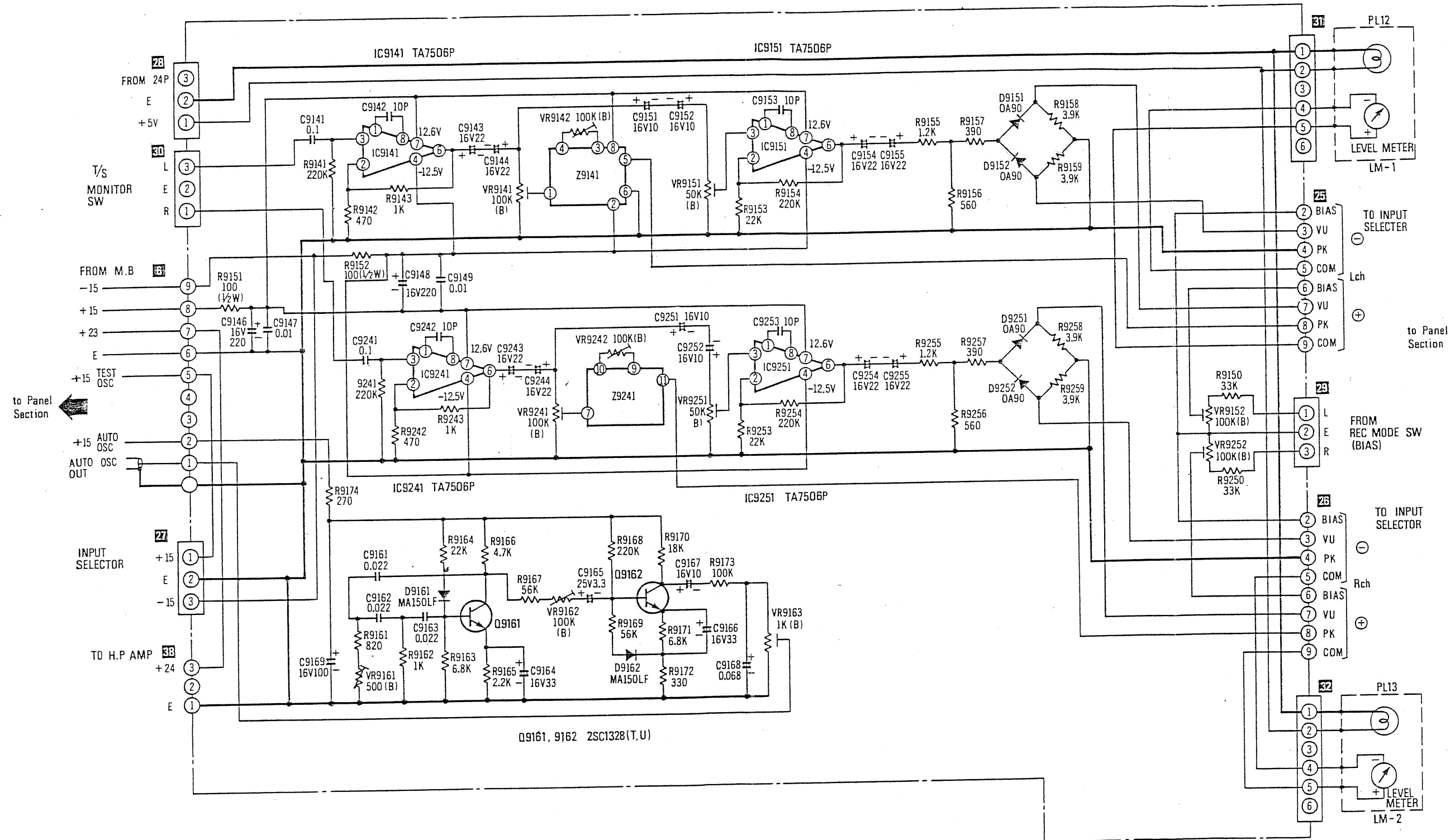
SCHEMATIC DIAGRAM

Meter and Auto OSC Section

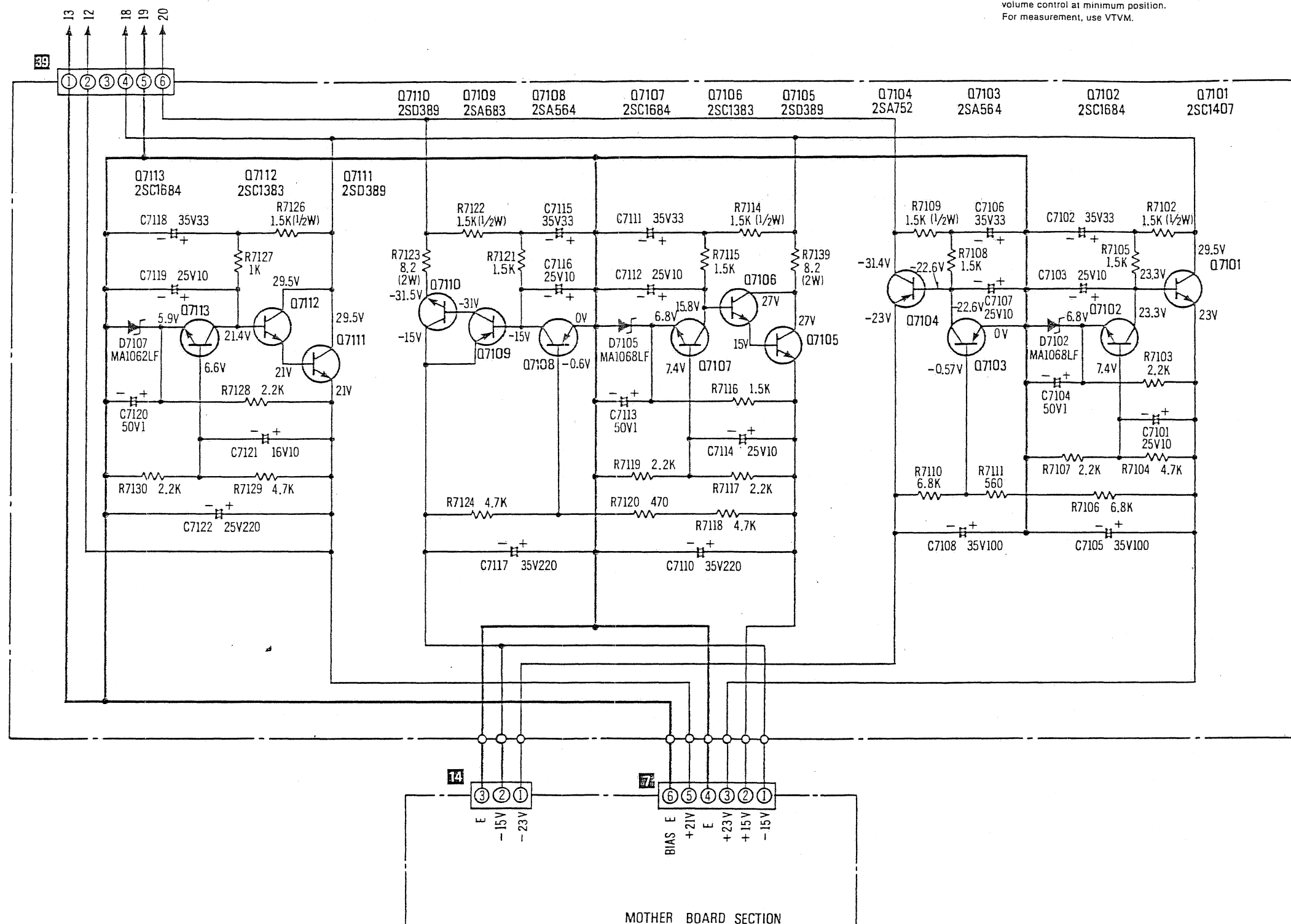
TERMINATION (BOTTOM VIEW)



- NOTES:
- VR9141, VR9241.....Peak meter indication adjustment VR at 0dB position.
 - VR9142, VR9242.....Peak meter indication adjustment VR at -10dB position.
 - VR9151, VR9251.....VU meter indication adjustment VR at 0VU position.
 - VR9152, VR9252.....Bias meter indication adjustment VR at 0% position.
 - VR9161Auto OSC frequency adjustment VR.
 - VR9162Auto OSC duty adjustment VR.
 - VR9163Auto OSC output level adjustment VR.
 - Resistance are in ohms (Ω), 1/4 watt unless otherwise specified.
 - K = 1000 Ω .
 - Capacity are in microfarads (μ F) unless otherwise specified.
 - P = Picofarads.
 - All voltage values shown in circuitry are under no signal condition with volume control at minimum position.
 - For measurement, use VTVM.

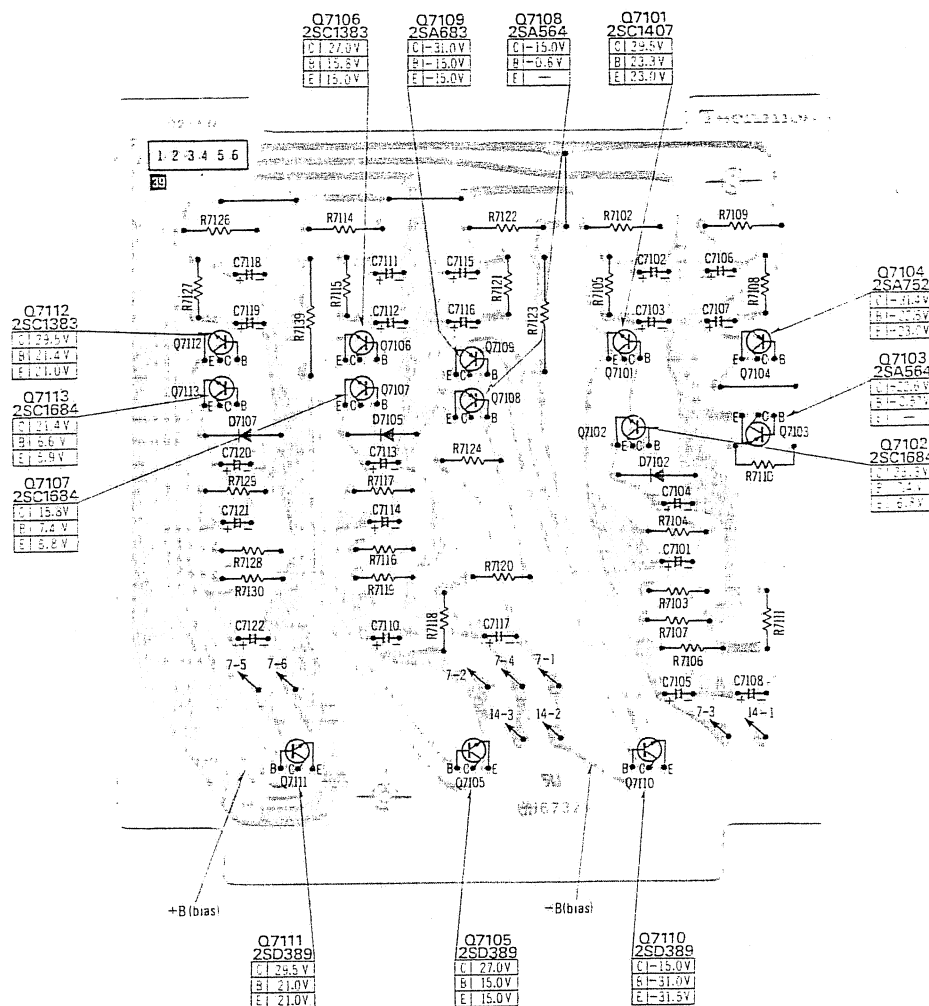


TO 24Pin CONNECTOR

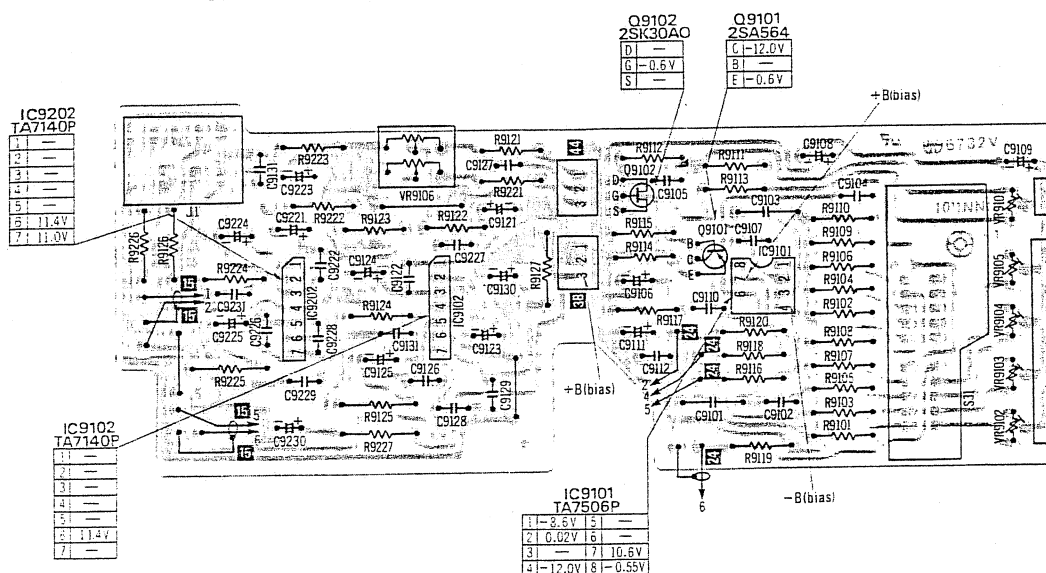


CIRCUIT BOARD

AMP POWER SUPPLY CIRCUIT BOARD



HEADPHONE AND TEST OSC CIRCUIT BOARD



NOTES:

- The circuit shown in _____ on the conductor indicates printed circuit on the front side of the printed circuit board.
- Values indicated in _____ are DC voltage between the ground and electrical parts.

Panel and Connector Section

- | | | | |
|-------------|--------------------------------------|---|--|
| • S32 | Record mode select switch (L-ch). | • S42 | Input select switch. |
| S33 | Record mode select switch (R-ch). | | [Shown in BALANCED position]. |
| | [Shown in OFF position]. | • S43 | Load impedance select switch. |
| • S34 | Bias/equalizer select switch (L-ch): | | [Shown in 10k Ω or MORE position]. |
| S35 | Bias/equalizer select switch (R-ch). | • VR8101, VR8201 | Input level control. |
| | [Shown in MANUAL position]. | • VR8102, VR8202 | Output level control. |
| • S36 | Monitor select switch (L-ch). | • VR8103, VR8203 | Bias adjustment control. |
| S37 | Monitor select switch (R-ch). | • VR8104, VR8204 | Equalizer adjustment control. |
| | [Shown in SOURCE position]. | • VR8105, VR8106 | Source monitor output level adjustment VR. |
| • S38 | Line/OSC select switch (L-ch). | • Resistance are in ohms (Ω), 1/4 watt unless otherwise specified. | |
| S39 | Line/OSC select switch (R-ch). | K = 1000 Ω . | |
| • S40 | Meter select switch (L-ch). | • Capacity are in microfarads (μ F) unless otherwise specified. | |
| S41 | Meter select switch (R-ch). | P = Picofarads. | |
| | [Shown in PEAK position]. | | |



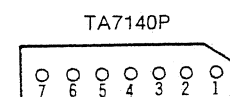
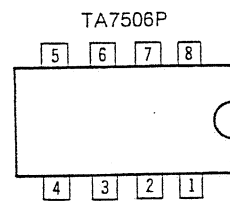
SCHEMATIC DIAGRAM

Headphone and Test OSC Section

NOTES:

- S31 OSC select switch.
- [Shown in 100 Hz position].
- VR9101 Test OSC distortion adjustment VR.
- VR9102 Test OSC output level adjustment VR at 100Hz position.
- VR9103 Test OSC output level adjustment VR at 1 kHz position.
- VR9104 Test OSC output level adjustment VR at 10kHz position.
- VR9105 Test OSC output level adjustment VR at 20kHz position.
- VR9106 Headphones level control.
- Resistance are in ohms (Ω), 1/4 watt unless otherwise specified.
- K = 1000 Ω .
- Capacity are in microfarads (μ F) unless otherwise specified.
- P = Picofarads.
- All voltage values shown in circuitry are under no signal condition with volume control at minimum position.
- For measurement, use VTVM.

TERMINATIONS (BOTTOM VIEW)



To ON/OFF
MUTING

From
T/S MONITOR
SW

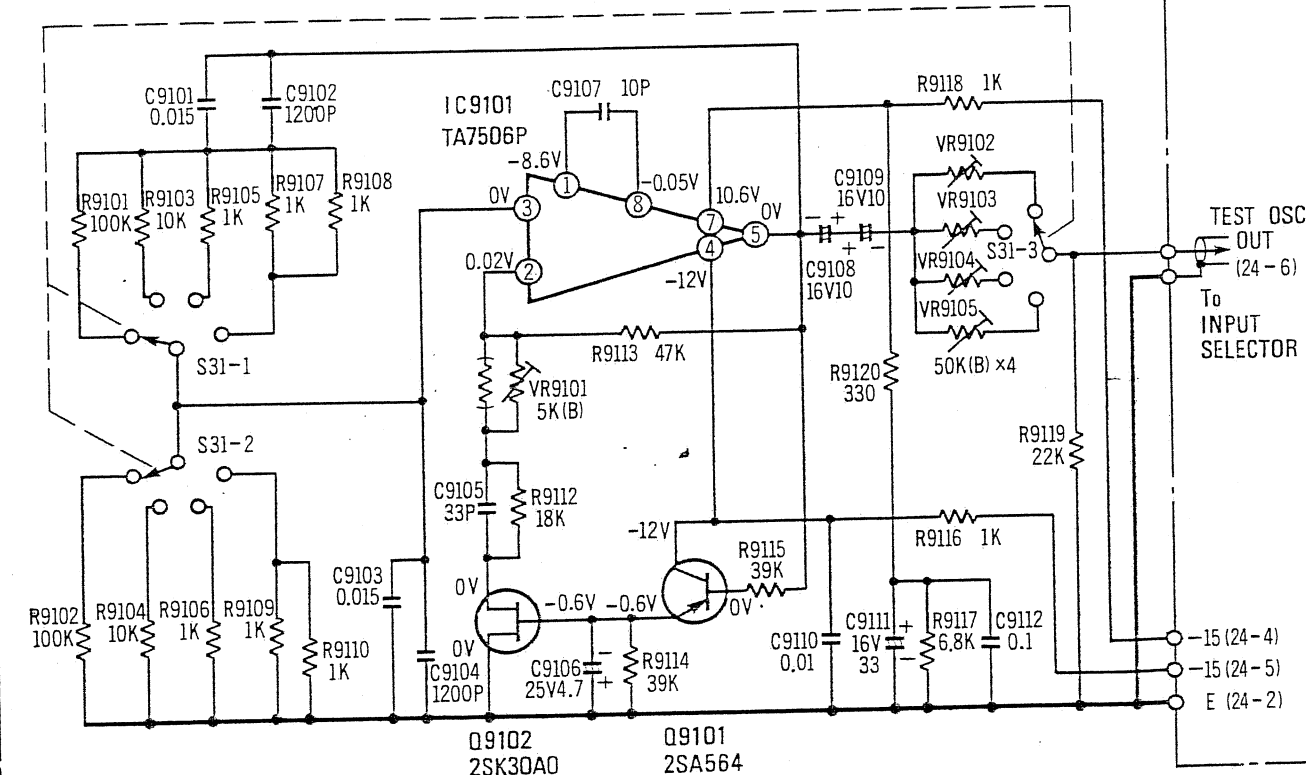
From
METER
PB

(15-1)
(15-2)
(15-5)
(15-6)

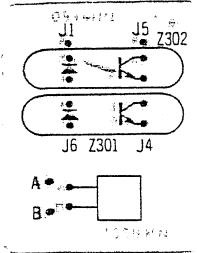
(R)
(L)

+24
E

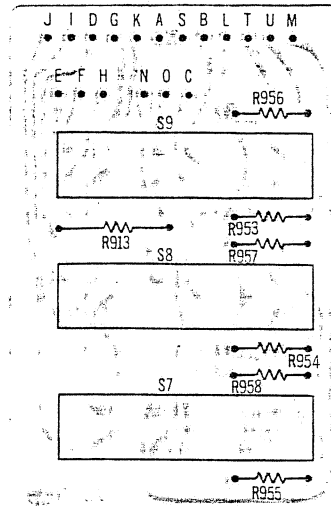
TEST OSC SECTION



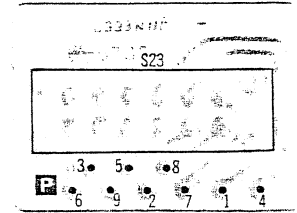
ROTATING DETECTION CIRCUIT BOARD



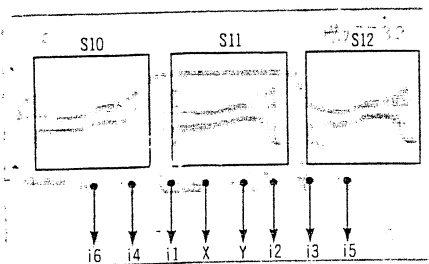
TAPE SPEED SELECTOR CIRCUIT BOARD



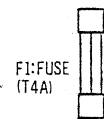
PLAYBACK EQ. SELECT SWITCH CIRCUIT BOARD



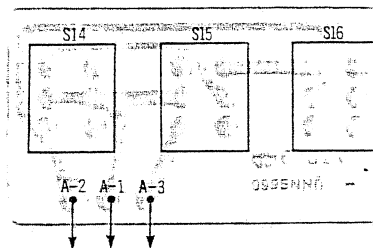
PITCH CONTROL SW CIRCUIT BOARD



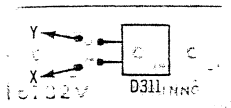
FUSE CIRCUIT BOARD



TAPE TRANSPORT MODE SELECTOR SW CIRCUIT BOARD



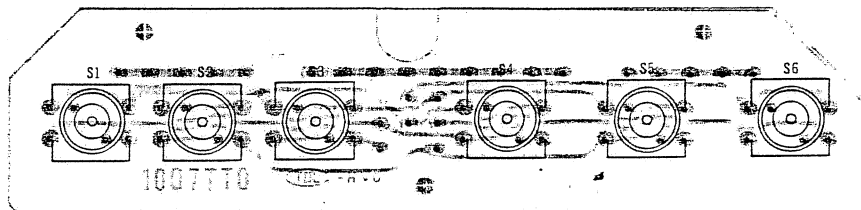
LED CIRCUIT BOARD



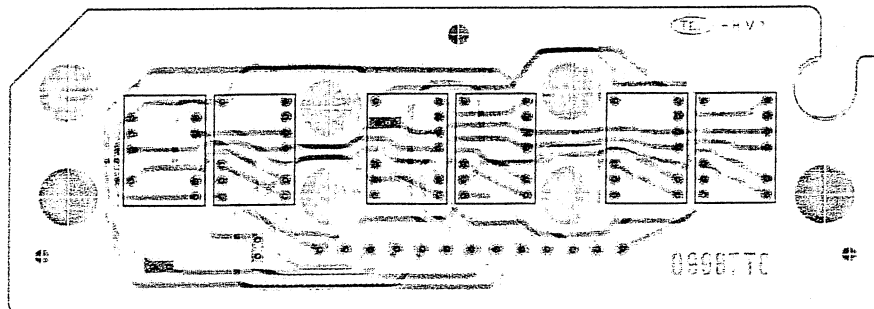
NOTE:

- The circuit shown in  on the conductor indicates printed circuit on the front side of the printed circuit board.

MEMORY AND TIME SW CIRCUIT BOARD



DIGITAL COUNTER CIRCUIT BOARD

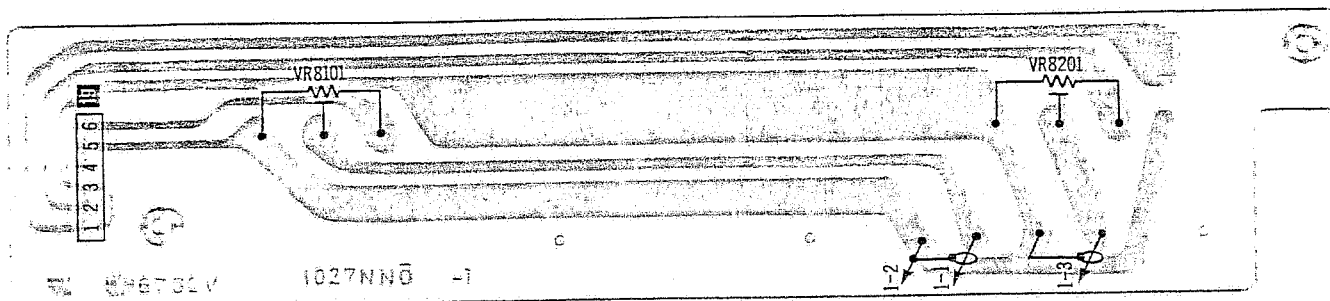


NOTES:

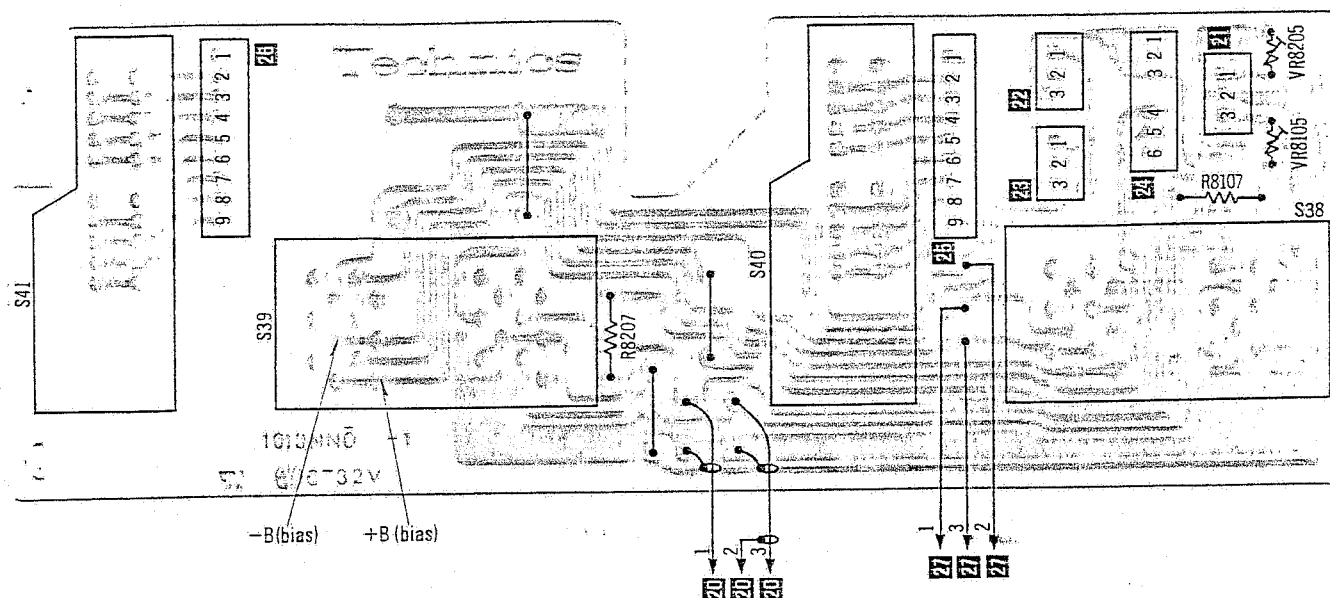
- The circuit shown in  on the conductor indicates printed circuit on the front side of the printed circuit board.
- The circuit shown in  on the conductor indicates printed circuit on the back side of the printed circuit board.
- The symbols (•) indicate connection points between conductors on the front side and back side of the circuit board.

CIRCUIT BOARD

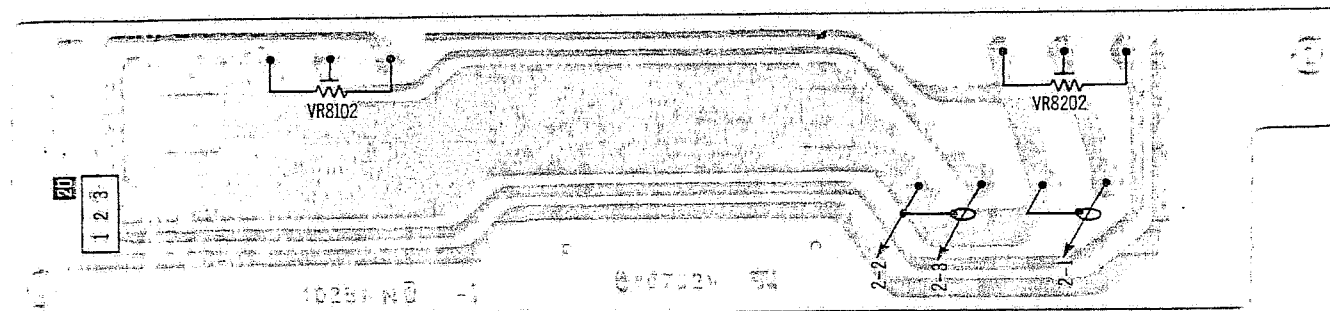
OUTPUT VR CIRCUIT BOARD



INPUT SELECTOR CIRCUIT BOARD



INPUT VR CIRCUIT BOARD

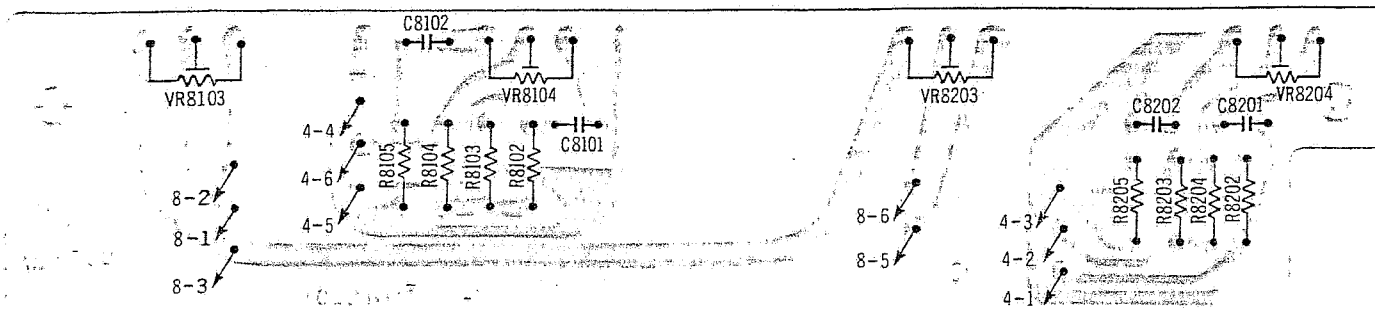


NOTE:

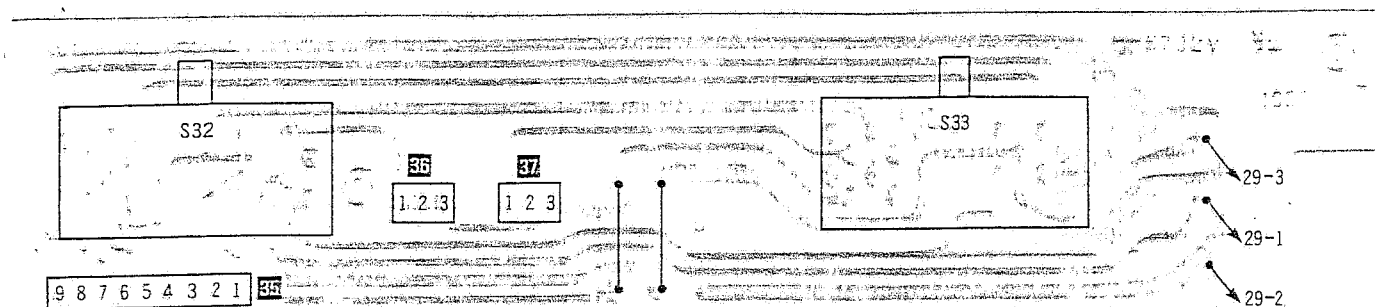
- The circuit shown in  on the conductor indicates printed circuit on the front side of the printed circuit board.

CIRCUIT BOARD

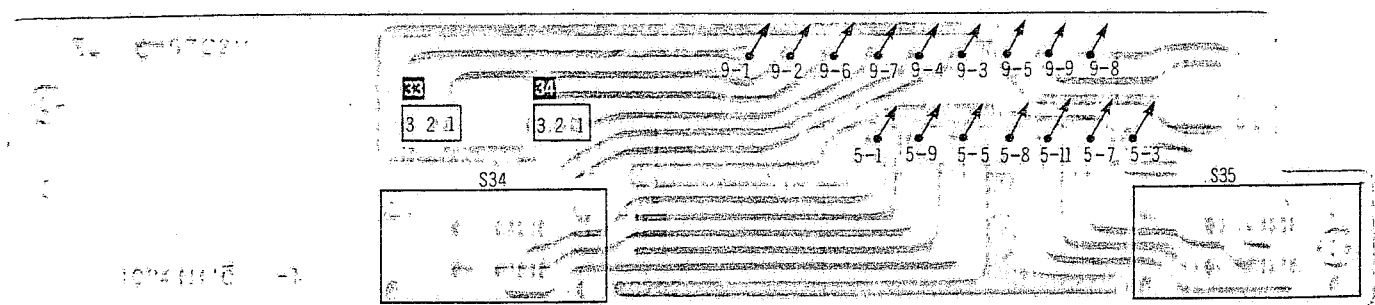
BIAS AND EQ. CONTROL CIRCUIT BOARD



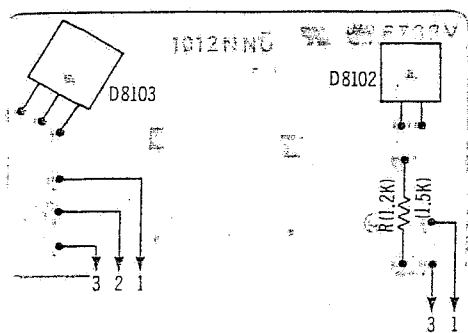
RECORD MODE SW CIRCUIT BOARD



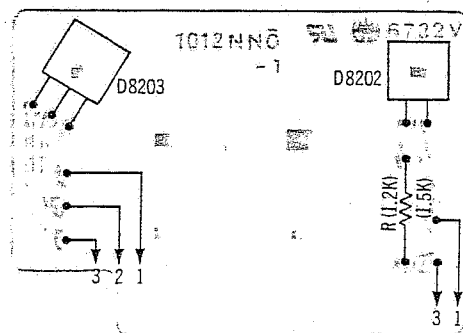
BIAS/EQ. SELECTION CIRCUIT BOARD



AUTO BIAS/EQ. LED CIRCUIT BOARD (LEFT)



AUTO BIAS/EQ. LED CIRCUIT BOARD (RIGHT)

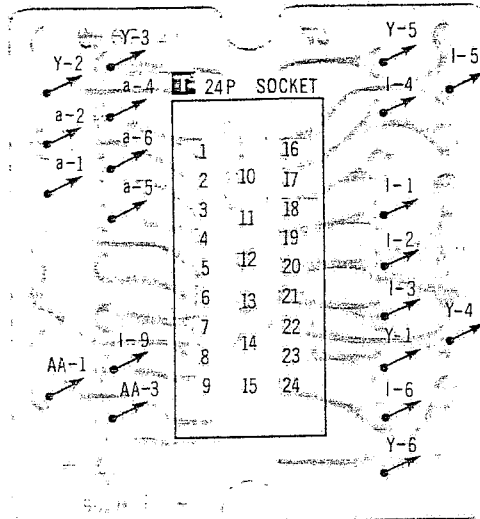


NOTE:

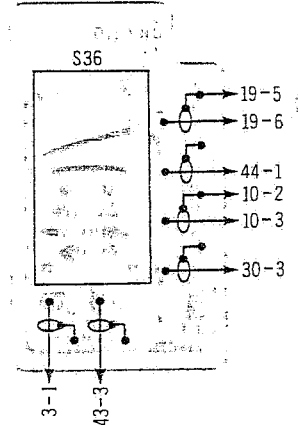
- The circuit shown in  on the conductor indicates printed circuit on the front side of the printed circuit board.

CIRCUIT BOARD

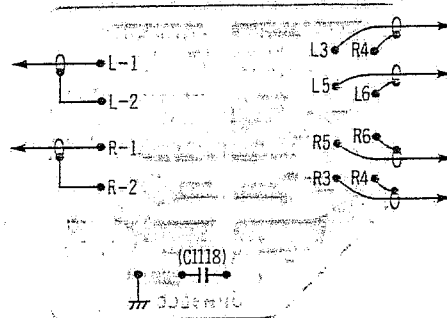
24-PIN CONNECTOR CIRCUIT BOARD



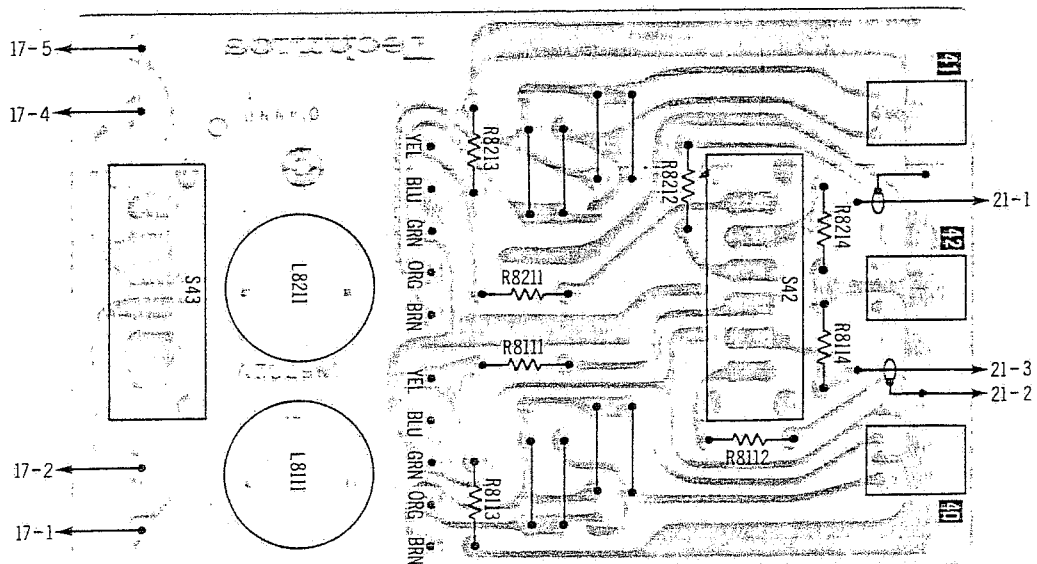
MONITOR SW CIRCUIT BOARD



PLAYBACK EQ. SELECTOR CIRCUIT BOARD



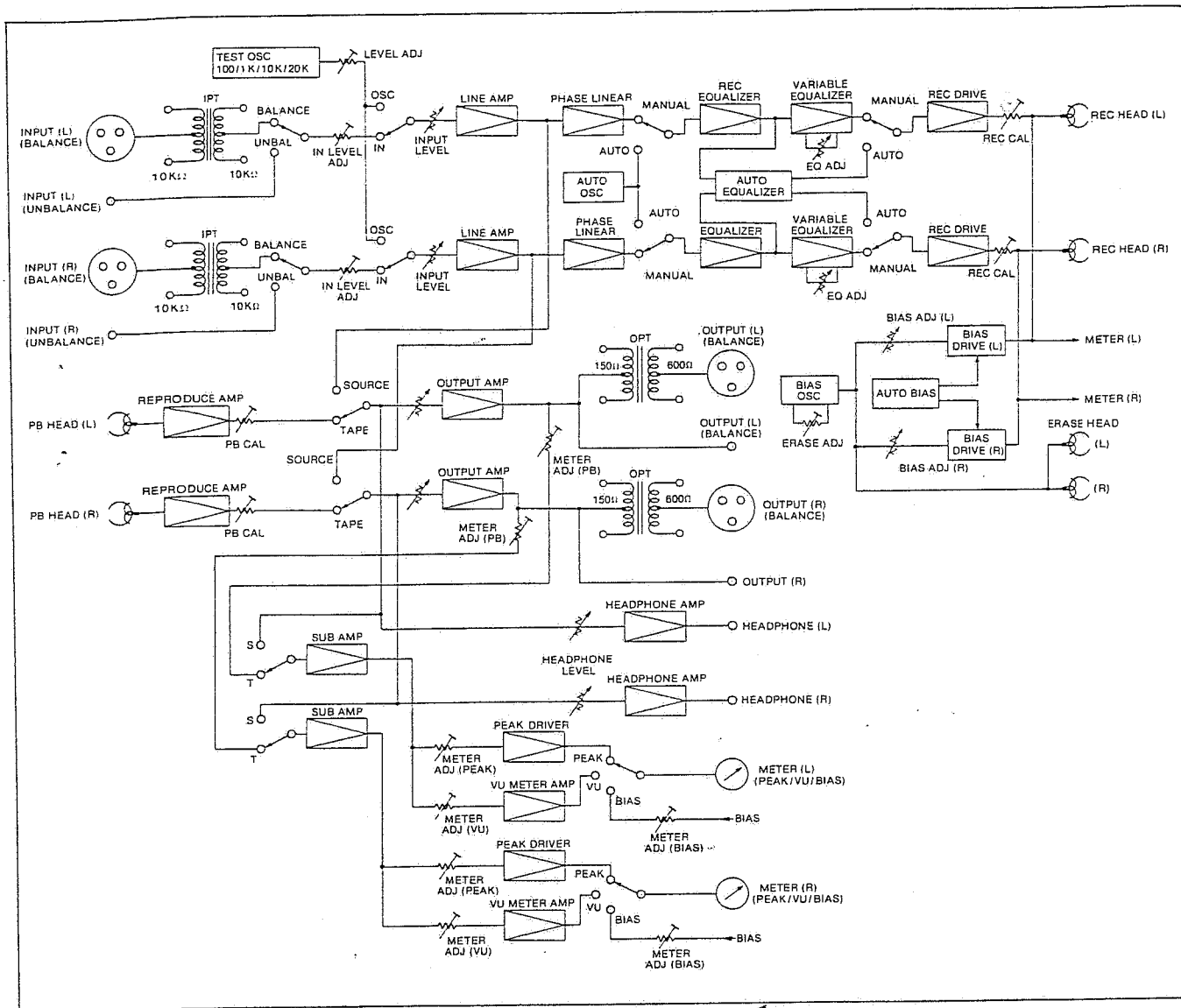
INPUT TRANSFORMER CIRCUIT BOARD



NOTE:

- The circuit shown in the diagram on the conductor indicates printed circuit on the front side of the printed circuit board.

BLOCK DIAGRAM



REPLACEMENT PARTS LIST Model RS-1800

NOTE :

Δ indicates that only parts specified by the manufacturer be used for safety.

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
MECHANICAL PARTS				
M1	QXS1090Z	Capstan Motor Ass'y		
M2	QXD0094	Reel Motor		
M3	QMH2019	Tape End Detection Holder		
M4	QMR1531	Connection Rod		
M5	QXL1231	Cue Lever Ass'y		
M6	QMA3447	Photo Coupler Angle		
M7	QBN1346	Spring		
M8	QMF1855	Control Plate		
M9	QXH0259	Adjustment Plate Ass'y		
M10	QXL1107	Driving Lever Ass'y		
M11	QME0138	Plunger (for Pressure Roller)		
M12	QMN2168	Plunger Pin		
M13	QMF1874	Plunger Holding Plate		
M14	QMF1986	Switch Angle		
M15	QXQ0097	Air Damper Ass'y		
M15-1	QBG1561	Bellows		
M16	QMA3124	Air Damper Angle		
M17	QXA0633	Stopper Angle		
M18	QXL1106	Tension Lever (R) Ass'y		
M19	QXR0307	Air Damper Rod (R) Ass'y		
M20	QMA2984	Air Damper Holding Angle		
M21	QXQ0095	Air Damper (R) Ass'y		
M22	QXH0258	Tension Lever Holding Plate-R		
M23	QMC0052	Spacer		
M24	QMA3448	Photo Coupler Holder		
M25	QBK1217	Insulating Sheet		
M26	QMF1682	Micro Switch Mounting Plate		
M27	QBC1189	Spring		
M28	QXL1105	Tension Lever (L) Ass'y		
M29	QXR0308	Air Damper Rod (L) Ass'y		
M30	QMA2985	Air Damper Holding Angle		
M31	QXQ0096	Air Damper (L) Ass'y		
M32	QXH0292	Tension Lever Holding Plate-L		
M33	QMA3193	Pipe		
M34	QBT1687M	Spring		
M35	QXA0607	Angle (R) Ass'y		
M36	QMR1572	Rod (R)		
M37	QXL1111	Arm (R) Ass'y		
M38	QXL1109	Sub-Arm (R) Ass'y		
M39	QXL1112	Brake Lever Ass'y		
M40	QME0147BK	Plunger (for Brake)		
M41	QBT1420	Spring		
M42	QXA0606	Angle (L) Ass'y		
M43	QMR1571	Rod (L)		
M44	QXL1110	Arm (L) Ass'y		

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
M45	QXL1108	Sub-Arm (L) Ass'y		
M46	QXL1098	Pressure Roller Lever Ass'y		
M47	QXL1104	Pressure Roller Sub-Arm(R) Ass'y		
M48	QXL1103	Pressure Roller Sub-Arm(L) Ass'y		
M49	QMN2139	Shaft (1)		
M50	QDP1704	Roller		
M51	QMS2428	Shaft (2)		
M52	QMN2140	Shaft (3)		
M53	QBC1071	Spring		
M54	QMC0053	Spacer		
M55	QXL1073	Shifter Arm (R) Ass'y		
M56	QXL1072	Shifter Arm (L) Ass'y		
M57	QXH0248	Mask Plate Ass'y		
M58	QMH2031	Cue Holder		
M59	QGO1466	Cue Button		
M60	QMF2035	Stopper Plate		
M61	QBF5692	Felt		
M62	QBT1199M	Spring		
M63	QMF1682	Switch Angle		
M64	QMA3450	Switch Angle		
M65	QBW2020	Poly Washer		
M66	QBW2016	Poly Washer		
M67	XVE3C10FNS	Screw with Hexagon Hole		
M68	QXH0268	Flywheel Cover		
M69	QMF1863	Wires Connector Holding Angle		
M70	QMA2952	Wires Connector Cover Angle		
M71	QXH0273	Function Buttons Holding Plate		
M72	QMN2142	Function Buttons Holding Shaft		
M73	QXB0682	Fast Forward Button		
M74	QXB0680	Play Button		
M75	QXB0681	Stop Button		
M76	QXB0683	Rewind Button		
M77	QMC0050	Collar		
M78	QXB0684	Pause Button		
M79	QXB0685	Record Button		
M80	QBT1322	Spring		
M81	QMG0033	Tape Guide-1 of Shifter Arm		
M82	XLCQ0001	Roller		
M83	QMG0034	Tape Guide-2 of Shifter Arm		
M84	QXH0294	Shaft Holder Ass'y		
M85	QMC0054	Spacer		
M86	QMS2428	Tape Guide Shaft		
M87	QBC1278	Tape Guide Spring		
M88	QMG0046	Tape Guide-3		
M89	QMG0045	Tape Guide-4		
M90	QMG0031	Tape Guide-5		
M91	QH01247	Screw with Hexagon Hole		
M92	QXP0544	Pressure Roller Ass'y		
M93	QXK0097	Pressure Roller Ornament		
M94	QMS2430	Reversing Roller Shaft		
M95	QBC1202	Spring		
M96	QXP0582	Reversing Roller Ass'y		
M97	QBP1714	Plate Spring		
M98	QDP1701	Roller		
M99	QBF1254	Felt		
M100	QKG2643	Roller Ornament		

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks	Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
M101	QMK1748	Head Base Plate			R5	ERD25TJ102	Carbon Resistor		
M102	QGC1113	Head Bottom Cover			R6	ERD25TJ150	"		
M103	QMG0029	Tape Guide-6			R7	ERD25TJ102	"		
M104	QMG0048	Tape Guide-7			R8	ERD25TJ150	"		
M105	QMZ1181	Head Sheet-1			R9	ERD25TJ102	"		
M106	QMF1866	Head Spacer			R10	ERD25TJ150	"		
M107	QMA2929	Switch Holder			R11	ERD25TJ102	"		
M108	QMP1330	Spacer			R12	ERD25TJ150	"		
M109	QKJ0164	Mask			R13	ERD25TJ102	"		
M110	QKJ0163	LED Holder			R14	ERD25TJ150	"		
M111	QBC1180	Head Mounting Spring			R15	ERD25TJ103	"		
M112	QNQ1069	Nut			R16	ERD25TJ221	"		
M113	QHQ1267	Screw			R17	ERD25TJ222	"		
M114	QBT1199M	Cue Lever Spring			R18	ERD25TJ103	"		
M115	XTN4+14B	Screw + 4x14			R19	ERD25TJ273	"		
M116	XTN4+10B	Screw + 4x10			R20	ERD25TJ472	"		
M117	XTN3+8B	Screw + 3x8			R21	ERD25TJ271	"		
M118	XSN2+12	Screw + 2x12			R22	ERD25TJ473	"		
M119	XSN26+6	Screw + 2.6x6			R23, 24	ERD25TJ472	"		
M120	XSN4+30S	Screw + 4x30			R25	ERD25TJ272	"		
M121	XSN3+6S	Screw + 3x6			R26	ERD25TJ562	"		
M122	XVE5C30FZS	Screw with Hexagon Hole			R27	ERD25TJ273	"		
M123	XWA4B	Spring Washer			R28	ERD25TJ103	"		
M124	XWA2BFZ	Spring Washer			R29	ERD25TJ822	"		
M125	XWA26B	Spring Washer			R30	ERD25TJ222	"		
M126	XWC3B	Lock Washer			R31	ERD25TJ223	"		
M127	QBW2023	Poly Washer			R32	ERD25TJ822	"		
M128	QJT0015	Lug Terminal			R33	ERD25TJ222	"		
M129	QBW2019	Poly Washer			R34	ERD25TJ103	"		
M130	QBW0034	Washer			R35	ERD25TJ822	"		
M131	XWG4	Flat Washer			R36	ERD25TJ222	"		
M132	QBW2022	Poly Washer			R37	ERD25TJ392	"		
M133	XUC5FT	Stop Ring 5ø			R38	ERD25TJ472	"		
M134	XUC3FT	Stop Ring 3ø			R39	ERD25TJ103	"		
M135	XUC4FT	Stop Ring 4ø			R40, 41	ERD25TJ102	"		
M136	XUC2FT	Stop Ring 2ø			R45	ERD25TJ222	"		
M137	XUC7FT	Stop Ring 7ø			R46	ERD25TJ473	"		
M138	XVE3C8FZS	Screw with Hexagon Hole			R47	ERD25TJ151	"		
M139	XXE3D6FZS	Screw with Hexagon Hole			R48	ERD25TJ152	"		
M140	QHQ1248	Screw with Hexagon Hole			R49	ERD25TJ473	"		
M141	XSS26+6BV	Screw			R50, 51	ERD25TJ104	"		
M142	XSN2+8BV	Screw + 2x8 with Hexagon Hole			R52	ERD25TJ473	"		
M143	XSN2+5BV	Screw + 2x5			R53	ERD25TJ103	"		
M144	XWG2FZ	Flat Washer			R54	ERD25TJ562	"		
M145	QMF1930	Spring Holding Plate-R			R55	ERD25TJ473	"		
M146	QMF1929	Spring Holding Plate-L			R56	ERD25TJ562	"		
M147	XTV3+8BFN	Screw + 3x8			R57	ERD25TJ472	"		
M148	QMC0074	Sleeve			R58	ERD25TJ103	"		
M149	XNG4S	Nut			R59	ERD25TJ472	"		
M150	XNG6S	Nut			R60	ERD25TJ562	"		
RESISTORS					R61, 62	ERD25TJ473	"		
R1	ERD25TJ102	Carbon Resistor			R63	ERD25TJ222	"		
R2	ERD25TJ150	"			R64	ERD25TJ473	"		
R3	ERD25TJ102	"			R65	ERD25TJ222	"		
R4	ERD25TJ150	"			R66	ERD25TJ473	"		

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks	Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
R67	ERD25TJ222	Carbon Resistor			R145	ERD25TJ563	Carbon Resistor		
R71,72,73	ERD25TJ102	"			R147	ERD25TJ105	"		
R74	ERD25TJ103	"			R148	ERD25TJ123	"		
R75	ERD25TJ561	"			R150	ERD25TJ222	"		
R81	ERD25TJ153	"			R151	ERD25TJ104	"		
R82	ERD25TJ103	"			R153	ERG1ANJ391	Metal-Oxide Resistor		
R83,84	ERD25TJ102	"			R154	ERD25TJ101	Carbon Resistor		
R85	ERD25TJ103	"			R155	ERD25TJ153	"		
R87	ERD25TJ474	"			R156	ERD25TJ271	"		
R88	ERD25TJ102	"			R161	ERD25TJ821	"		
R89	ERD25TJ154	"			R162	ERD25TJ102	"		
R90	ERD25TJ103	"			R163	ERD25TJ153	"		
R91,92	ERD25TJ473	"			R164	ERD25TJ182	"		
R93	ERD25TJ154	"			R165	ERX1ANJ100	Metal-Oxide Resistor		
R94,95	ERD25TJ103	"			R171	ERD25TJ821	Carbon Resistor		
R96	ERD25TJ473	"			R172	ERD25TJ102	"		
R97	ERD25TJ222	"			R173	ERD25TJ153	"		
R98,99	ERD25TJ103	"			R181	ERG12ANJ331	Metal-Oxide Resistor		
R101	ERD25TJ474	"			R182	ERX1ANJ100	"		
R102	ERD25TJ224	"			R183	ERG12ANJ472	"		
R103	ERD25TJ472	"			R184	ERX1ANJ1R0	"		
R104	ERD25TJ822	"			R201	ERD25TJ474	Carbon Resistor		
R105	ERG1ANJ100	Metal-Oxide Resistor			R202	ERD25TJ224	"		
R106	ERD25TJ102	Carbon Resistor			R203	ERD25TJ472	"		
R107	ERD25TJ222	"			R204	ERD25TJ822	"		
R108	ERD25TJ820	"			R205	ERD25TJ472	"		
R109	ERD25TJ474	"			R206	ERD25TJ102	"		
R110	ERD25TJ222	"			R207	ERD25TJ222	"		
R111	ERD25TJ561	"			R208	ERD25TJ820	"		
R112	ERD25TJ103	"			R209	ERD25TJ474	"		
R113	ERD25TJ104	"			R210	ERD25TJ222	"		
R114	ERD25TJ103	"			R211	ERD25TJ561	"		
R115	ERD25TJ225	"			R212,214	ERD25TJ103	"		
R116	ERD25TJ221	"			R215	ERD25TJ225	"		
R117	ERD25TJ105	"			R216	ERD25TJ221	"		
R119	ERD25TJ104	"			R217	ERD25TJ105	"		
R120	ERD25TJ103	"			R220	ERD25TJ103	"		
R121	ERD25TJ225	"			R221	ERD25TJ225	"		
R122	ERD25TJ102	"			R222	ERD25TJ102	"		
R123	ERD25TJ474	"			R223	ERD25TJ474	"		
R125	ERD25TJ104	"			R226	ERD25TJ103	"		
R126	ERD25TJ103	"			R227	ERD25TJ225	"		
R127	ERD25TJ475	"			R228	ERD25TJ102	"		
R128	ERD25TJ102	"			R229	ERD25TJ475	"		
R129	ERD25TJ225	"			R232	ERD25TJ103	"		
R131	ERD25TJ104	"			R233	ERD25TJ225	"		
R132	ERD25TJ103	"			R234	ERD25TJ222	"		
R133	ERD25TJ225	"			R241	ERD25TJ560	"		
R134	ERD25TJ222	"			R242	ERD25TJ683	"		
R135,136,137	ERD25TJ273	"			R243	ERD25TJ104	"		
R141	ERD25TJ560	"			R244	ERD25TJ102	"		
R142	ERD25TJ683	"			R245	ERD25TJ563	"		
R143	ERD25TJ104	"			R247	ERD25TJ105	"		
R144	ERD25TJ102	"			R248	ERD25TJ123	"		
					R250	ERD25TJ222	"		

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks	Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
R251	ERD25TJ104	Carbon Resistor			R511	ERD25TJ104	Carbon Resistor		
R256	ERD25TJ104	"			R512	ERD25TJ273	"		
R281	ERG12ANJ331	Metal-Oxide Resistor			R513	ERD25TJ333	"		
R283	ERG12ANJ472	"			R514	ERD25TJ103	"		
R301	ERD25TJ103	Carbon Resistor			R521	ERD25TJ123	"		
R302	ERD25TJ101	"			R522,523	ERD25TJ472	"		
R303	ERD25TJ103	"			R524	ERD25TJ221	"		
R304	ERD25TJ101	"			R525	ERD25TJ820	"		
R305	ERG12ANJ681	Metal-Oxide Resistor			R526	ERD25TJ221	"		
R306	ERD25TJ471	Carbon Resistor			R527	ERD25TJ223	"		
R307	ERD25TJ681	"			R528	ERD25TJ681	"		
R308,309	310	"			R529,530	ERD25TJ561	"		
	ERD25TJ102	"			R531,532	ERD25TJ470	"		
R311	ERD25TJ103	"			R533	ERG12ANJ682	Metal-Oxide Resistor		
R312,313	ERD25TJ473	"			R534	ERD25TJ683	Carbon Resistor		
R314	ERD25TJ472	"			R535	ERD25TJ104	"		
R315,316	ERD25TJ272	"			R536	ERD25TJ223	"		
R317	ERD25TJ102	"			R551	ERD25TJ123	"		
R318	ERD25TJ223	"			R552,553	ERD25TJ472	"		
R319	ERD25TJ102	"			R554	ERD25TJ221	"		
R320	ERD25TJ183	"			R555	ERD25TJ820	"		
R321,322	323	"			R556	ERD25TJ221	"		
	ERD25TJ103	"			R557	ERD25TJ223	"		
R324,325	326	"			R558	ERD25TJ681	"		
	ERD25TJ473	"			R559,560	ERD25TJ561	"		
R327,328	329,330,	"			R561,562	ERD25TJ470	"		
331,332	333	"			R563	ERG12ANJ682	Metal-Oxide Resistor		
	ERD25TJ102	"			R564	ERD25TJ683	Carbon Resistor		
R334,335	336,337,	"			R565	ERD25TJ104	"		
338,339	340	"			R566	ERD25TJ223	"		
	ERD25TJ471	"			R601,602	603,604	"		
R341,342	343,344,345,346	"				ERX12ANJR22	Metal-Oxide Resistor		△
	ERD25TJ102	"			R605,606	607,608,609,	"		
R347,348	349,350,351,352	"			610,611,612	"			△
	ERD25TJ471	"				ERD18TJ223	Carbon Resistor		
R353,354	355,356,357,358	"			R621	ERF5ZJ221	Cement Resistor		
	ERD25TJ102	"			R622	ERD25TJ472	Carbon Resistor		
R359	ERD25TJ221	"			R623	ERD25TJ101	"		
R360	ERD25TJ101	"			R624	ERD25TJ471	"		
R361,362	ERD25TJ102	"			R625	ERD25TJ681	"		
R363	ERD25TJ471	"			R626	ERF5ZJ680	Cement Resistor		
R364	ERG12ANJ330	Metal-Oxide Resistor			R627	ERD25TJ472	Carbon Resistor		
R365	ERD12ANJ121	"			R628	ERD25TJ101	"		
R366,367	ERD25TJ471	Carbon Resistor			R629	ERD25TJ471	"		
R368,369	370,371,	"			R630	ERD25TJ681	"		
372,373	374	"			R651	ERD25TJ222	"		
	ERD25TJ820	"			R652,653	ERD25TJ103	"		
R501	ERD25TJ223	"			R654	ERG1ANJ332	Metal-Oxide Resistor		
R502	ERD25TJ472	"			R655	ERD25TJ472	Carbon Resistor		
R503	ERD25TJ392	"			R656,657	ERG12ANJ821	Metal-Oxide Resistor		
R504	ERD25TJ681	"			R658	ERD25TJ472	Carbon Resistor		
R505	ERD25TJ472	"			R659	ERD25TJ272	"		
R506	ERD25TJ272	"			R660	ERD25TJ472	"		
R507	ERD25TJ273	"			R661,662	ERD25TJ272	"		
R509,510	ERD25TJ150	"			R663	ERD25TJ182	"		

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks	Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
R664	ERD25TJ103	Carbon Resistor			R841,842	ERD25TJ273	Carbon Resistor		
R665	ERD25TJ182	"			R843,844	ERD25TJ272	"		
R666	ERD25TJ153	"			R845,846	ERD25TJ103	"		
R667	ERD25TJ152	"			R847,848	ERD25TJ273	"		
R668	ERD25TJ153	"			R849,850	ERD25TJ563	"		
R669,670	ERD25TJ102	"			R851,852	ERD25TJ272	"		
R671	ERD25TJ222	"			R853,854	ERD25TJ103	"		
R672	ERD25TJ822	"			R855,856	ERD25TJ822	"		
R673	ERD25TJ680	"			R861,862	ERD25TJ394	"		
R674	ERD25TJ222	"			R864	ERD25TJ823	"		
R675,676,677	ERD25TJ472	"			R866	ERD25TJ273	"		
R701,702,703,704	ERD25TJ103	"			R869,870	ERD25TJ224	"		
R705,706	ERD25TJ472	"			R881	ERD25TJ103	"		
R707,708	ERD25TJ152	"			R882	ERD25TJ184	"		
R709,710,711,712,713,714	ERD25TJ274	"			R883	ERD25TJ473	"		
R715,716,717,718,719,720,721,722,723,724,725,726	ERGLANJ181	Metal-Oxide Resistor			R884,885	ERD25TJ273	"		
R727,728	ERD25TJ103	Carbon Resistor			R886	ERD25TJ272	"		
R729,730	ERX2ANJR47	Metal-Oxide Resistor			R887	ERD25TJ103	"		
R731,732	ERD25TJ152	Carbon Resistor			R888	ERD25TJ272	"		
R733,734	ERD25TJ392	"			R889	ERD25TJ103	"		
R735,736	ERD25TJ223	"			R890,891	ERD25TJ273	"		
R737,738	ERD25TJ332	"			R892	ERD25TJ272	"		
R739,740	ERD25TJ153	"			R893	ERD25TJ103	"		
R741,742,743,744	ERD25TJ223	"			R894	ERD25TJ471	"		
R745,746	ERD25TJ682	"			R896	ERD25TJ103	"		
R747,748	ERD25TJ103	"			R897	ERD25TJ473	"		
R749,750	ERD25TJ333	"			R898	ERD25TJ273	"		
R791	ERD25TJ223	"			R901,902	ERD25TJ102	"		
R792	ERD25TJ103	"			R903	ERD25TJ473	"		
R793	ERD25TJ562	"			R904	ERD25TJ472	"		
R794	ERD25TJ272	"			R905	ERD25TJ183	"		
R795	ERG12ANJ271	Metal-Oxide Resistor			R906	ERD25TJ223	"		
R801,802	ERD25TJ222	Carbon Resistor			R907	ERD25TJ331	"		
R803,804	ERD25TJ101	"			R908	ERD25TJ561	"		
R805,806	ERD25TJ333	"			R909	ERD25TJ102	"		
R807,808	ERD25TJ103	"			R912	ERD25TJ393	"		
R809,810	ERD25TJ272	"			R913	ERG1ANJ181	Metal-Oxide Resistor		
R811,812	ERD25TJ473	"			R914	ERD25TJ273	Carbon Resistor		
R813,814	ERD25TJ103	"			R915	ERD25TJ223	"		
R815,816	ERD25TJ222	"			R916	ERD25TJ472	"		
R817,818	ERD25TJ473	"			R917	ERD25TJ103	"		
R819,820	ERD25TJ103	"			R918	ERD25TJ104	"		
R821,822	ERD25TJ222	"			R919	ERD25TJ562	"		
R823,824,825,826	ERD25TJ153	"			R920	ERD25TJ472	"		
R833,834	ERD25TJ100	"			R931	ERD25TJ682	"		
R835,836	ERD25TJ103	"			R932	ERD25TJ103	"		
R837,838	ERD25TJ273	"			R933	ERD25TJ682	"		
R839,840	ERD25TJ473	"			R934	ERD25TJ562	"		
					R935	ERD25TJ122	"		
					R936	ERD25TJ472	"		
					R937	ERD25TJ272	"		
					R941	ERD25TJ103	"		
					R942	ERD25TJ183	"		
					R943	ERD25TJ103	"		
					R944	ERD25TJ105	"		

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks	Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
R945	ERD25TJ330	Carbon Resistor			R1124	ERD25TJ563	Carbon Resistor		
R946	ERD25TJ103	"			R1125	ERD25TJ183	"		
R947	ERD25TJ105	"			R1126	ERD25TJ562	"		
R948,949,950	ERD25TJ103	"			R1127	ERD25TJ124	"		
R951	ERG1ANJ331	Metal-Oxide Resistor			R1128	ERD25TJ123	"		
R952	ERD25TJ103	Carbon Resistor			R1129	ERD25TJ103	"		
R953,954	ERD25TJ473	"			R1130	ERD25TJ561	"		
R955	ERD25TJ104	"			R1131,1132	ERX1ANJ100	Metal-Oxide Resistor		
R956,957	ERD25TJ473	"			R1211	ERD25TJ104	Carbon Resistor		
R958	ERD25TJ104	"			R1212	ERD25TJ222	"		
R963	ERD25TJ103	"			R1213	ERD25TJ102	"		
R966	ERD25TJ562	"			R1220,1221	ERG12ANJ560	Metal-Oxide Resistor		
R967	ERD25TJ333	"			R1222	ERD25TJ104	Carbon Resistor		
R968	ERD25TJ473	"			R1223	ERD25TJ103	"		
R969,970	ERD25TJ333	"			R1224	ERD25TJ563	"		
R971	ERD25TJ392	"			R1225	ERD25TJ183	"		
R981,982,983	ERD25TJ560	"			R1226	ERD25TJ562	"		
R984,985,986	ERD25TJ103	"			R1227	ERD25TJ124	"		
R987	ERX1ANJ1R0	Metal-Oxide Resistor			R1228	ERD25TJ123	"		
R988	ERD25TJ103	Carbon Resistor			R1229	ERD25TJ103	"		
R989,990,991	ERD25TJ560	"			R1230	ERD25TJ561	"		
R992,993,994	ERD25TJ103	"			R1231,1232	ERX1ANJ100	Metal-Oxide Resistor		
R995,996,997	ERD25TJ270	"			R1901	ERD25TJ331	Carbon Resistor		
R998	ERD25TJ392	"			R1902	ERD25TJ221	"		
R999	ERD25TJ123	"			R1903	ERD25TJ330	"		
R1001	ERD25TJ223	"			R1904	ERD25TJ222	"		
R1002,1003	ERD25TJ471	"			R1905	ERD25TJ103	"		
R1004	ERD25TJ103	"			R1907	ERD25TJ223	"		
R1005	ERD25TJ273	"			R1908,1909	ERD25TJ103	"		
R1006,1007	ERD25TJ103	"			R1910,1911,1912,1913	ERD25TJ222	"		
R1008	ERD25TJ474	"			R1914	ERD25TJ472	"		
R1009	ERD25TJ102	"			R1915,1916	ERD25TJ222	"		
R1010	ERD25TJ273	"			R1921,1922,1923	ERD25TJ103	"		
R1011,1012	ERD25TJ103	"			R1924	ERD25TJ152	"		
R1013	ERD25TJ153	"			R1925	ERD25TJ224	"		
R1014	ERD25TJ103	"			R1926	ERD25TJ103	"		
R1015	ERD25TJ473	"			R1927,1928	ERD25TJ223	"		
R1101,1102	ERG12ANJ331	Metal-Oxide Resistor			R1929,1930	ERD25TJ472	"		
R1111	ERD25TJ104	Carbon Resistor			R1931	ERD25TJ102	"		
R1112	ERD25TJ222	"			R1932	ERD25TJ473	"		
R1113	ERD25TJ102	"			R1934	ERD25TJ223	"		
R1120,1121	ERG12ANJ560	Metal-Oxide Resistor			R1935	ERD25TJ472	"		
R1122	ERD25TJ104	Carbon Resistor			R1936	ERD25TJ222	"		
R1123	ERD25TJ103	"			R1937	ERG1ANJ470	Metal-Oxide Resistor		
					R1938	ERX1ANJ100	"		
					R1939	ERD25TJ103	Carbon Resistor		

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks	Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
R1940	ERD25TJ820	Carbon Resistor			R3127	ERD25TJ104	Carbon Resistor		
R1941	ERD25TJ223	"			R3128	ERD25TJ102	"		
R1942	ERD25TJ224	"			R3129	ERD25TJ333	"		
R1943	ERD25TJ103	"			R3130	ERD25TJ103	"		
R1945	ERD25TJ822	"			R3131	ERD25TJ182	"		
R2111	ERD25TJ474	"			R3132	ERG12ANJ391	Metal-Oxide Resistor		
R2112	ERD25TJ182	"			R3133, 3134				
R2113	ERD25TJ223	"				ERG1ANJ101	"		
R2114	ERD25TJ104	"			R3135	ERG12ANJ391	"		
R2115	ERD25TJ563	"			R3136	ERD25TJ152	Carbon Resistor		
R2116	ERD25TJ124	"			R3141	ERD25TJ474	"		
R2117, 2118					R3142	ERD25TJ103	"		
	ERD25TJ102	"			R3143, 3144				
R2119	ERD25TJ123	"				ERD25TJ101	"		
R2120, 2121, 2122					R3145	ERD25TJ390	"		
	ERD25TJ225	"			R3146, 3147, 3148				
R2123, 2124, 2125						ERD25TJ122	"		
	ERD25TJ103	"			R3149	ERD25TJ104	"		
R2131, 2132, 2133					R3211	ERD25TJ122	"		
	ERD25TJ104	"			R3212, 3213				
R2134, 2135, 2136						ERD25TJ225	"		
	ERD25TJ273	"			R3214	ERD25TJ392	"		
R2137	ERD25TJ822	"			R3215	ERD25TJ123	"		
R2138	ERD25TJ392	"			R3216, 3217				
R2211	ERD25TJ474	"				ERD25TJ103	"		
R2212	ERD25TJ182	"			R3221	ERD25TJ104	"		
R2213	ERD25TJ223	"			R3222	ERD25TJ474	"		
R2214	ERD25TJ104	"			R3223	ERD25TJ103	"		
R2215	ERD25TJ563	"			R3224	ERD25TJ563	"		
R2216	ERD25TJ124	"			R3225	ERD25TJ103	"		
R2217, 2218					R3226	ERD25TJ183	"		
	ERD25TJ102	"			R3227	ERD25TJ104	"		
R2219	ERD25TJ123	"			R3228	ERD25TJ102	"		
R2220, 2221, 2222					R3229	ERD25TJ333	"		
	ERD25TJ225	"			R3230	ERD25TJ103	"		
R2223, 2224, 2225					R3231	ERD25TJ182	"		
	ERD25TJ103	"			R3232	ERG12ANJ391	Metal-Oxide Resistor		
R2237	ERD25TJ822	"			R3233, 3234				
R3103, 3104, 3105						ERG1ANJ101	"		
	ERD25TJ104	"			R3235	ERG12ANJ391	"		
R3106, 3107, 3108					R3236	ERD25TJ152	Carbon Resistor		
	ERD25TJ273	"			R3241	ERD25TJ474	"		
R3111	ERD25TJ122	"			R3242	ERD25TJ103	"		
R3112, 3113					R3243, 3244				
	ERD25TJ225	"				ERD25TJ101	"		
R3114	ERD25TJ392	"			R3245	ERD25TJ390	"		
R3115	ERD25TJ123	"			R3246, 3247, 3248				
R3116, 3117						ERD25TJ122	"		
	ERD25TJ103	"			R3249	ERD25TJ104	"		
R3121	ERD25TJ104	"			R4101	ERD25TJ223	"		
R3122	ERD25TJ474	"			R4102	ERD25TJ472	"		
R3123	ERD25TJ103	"			R4103	ERD25TJ223	"		
R3124	ERD25TJ563	"			R4104	ERD25TJ103	"		
R3125	ERD25TJ103	"			R4105	ERD25TJ472	"		
R3126	ERD25TJ183	"			R4106	ERD25TJ103	"		

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks	Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
R4107	ERD25TJ474	Carbon Resistor			R5102	ERD25TJ103	Carbon Resistor		
R4108	ERD25TJ104	"			R5103	ERD25TJ105	"		
R4109	ERD25TJ105	"			R5104, 5105		"		
R4110	ERD25TJ103	"				ERD25TJ103	"		
R4111	ERD25TJ562	"			R5106	ERD25TJ124	"		
R4112, 4113		"			R5107	ERD25TJ154	"		
	ERD25TJ474	"			R5108	ERD25TJ472	"		
R4114	ERD25TJ224	"			R5109	ERD25TJ102	"		
R4115, 4116		"			R5110	ERD25TJ223	"		
	ERD25TJ102	"			R5111, 5112		"		
R4117	ERD25TJ332	"				ERD25TJ474	"		
R4118	ERD25TJ221	"			R5113	ERD25TJ103	"		
R4119	ERD25TJ332	"			R5114	ERD25TJ473	"		
R4120, 4121		"			R5115	ERD25TJ473	"		
	ERD25TJ181	"			R5116	ERD25TJ102	"		
R4122, 4123		"			R5117	ERD25TJ684	"		
	ERD25TJ103	"			R5118, 5119		"		
R4125, 4126, 4127		"				ERD25TJ104	"		
	ERD25TJ102	"			R5120	ERD25TJ221	"		
R4128	ERD25TJ561	"			R5121	ERD25TJ471	"		
R4129	ERD25TJ104	"			R5122	ERD25TJ181	"		
R4130	ERD25TJ103	"			R5123	ERD25TJ472	"		
R4131	ERD25TJ105	"			R5124	ERD25TJ272	"		
R4132	ERD25TJ273	"			R5125	ERG12ANJ122	Metal-Oxide Resistor		
R4133	ERD25TJ474	"			R5126	ERD25TJ271	Carbon Resistor		
R4134	ERD25TJ105	"			R5127	ERD25TJ333	"		
R4135	ERD25TJ333	"			R5128	ERD25TJ223	"		
R4136, 4137, 4138		"			R5129	ERD25TJ183	"		
	ERD25TJ474	"			R5130	ERD25TJ104	"		
R4140	ERD25TJ103	"			R5131	ERD25TJ101	"		
R4141	ERD25TJ183	"			R5132	ERD25TJ153	"		
R4142	ERD25TJ392	"			R5133	ERD25TJ561	"		
R4143	ERD25TJ103	"			R5134	ERD25TJ223	"		
R4144	ERD25TJ332	"			R5135	ERD25TJ104	"		
R4145	ERD25TJ101	"			R5136	ERD25TJ271	"		
R4146	ERD25TJ222	"			R5137	ERD25TJ472	"		
R4147	ERD25TJ182	"			R5138	ERD25TJ473	"		
R4148	ERD25TJ822	"			R5139	ERD25TJ331	"		
R4149	ERD25TJ152	"			R5140	ERD25TJ472	"		
R4150	ERD25TJ124	"			R5141	ERD25TJ103	"		
R4151, 4152, 4153		"			R5142	ERD25TJ330	"		
	ERD25TJ103	"			R5143	ERD25TJ820	"		
R4154	ERD25TJ334	"			R5144	ERD25TJ333	"		
R4155	ERD25TJ474	"			R5148, 5149		"		
R4156	ERD25TJ562	"				ERD25TJ102	"		
R4157	ERD25TJ393	"			R5150	ERD25TJ562	"		
R4160	ERD25TJ473	"			R5151	ERD25TJ184	"		
R4161, 4162		"			R5152	ERD25TJ181	"		
	ERD25TJ102	"			R5153	ERD25TJ105	"		
R4163	ERD25TJ222	"			R5154	ERD25TJ223	"		
R4164, 4165		"			R5155	ERD25TJ184	"		
	ERD25TJ473	"			R5156	ERD25TJ104	"		
R4166	ERD25TJ222	"			R5157	ERD25TJ330	"		
R4167	ERD25TJ334	"			R5158	ERD25TJ332	"		
R5101	ERD25TJ473	"			R5159	ERD25TJ183	"		

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks	Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
R5160	ERD25TJ222	Carbon Resistor			R7107	ERD25TJ222	Carbon Resistor		
R5161	ERD25TJ333	"			R7108	ERD25TJ152	"		
R5162	ERD25TJ473	"			R7109	ERG12ANJ152	Metal-Oxide Resistor		
R5164	ERD25TJ331	"			R7110	ERD25TJ682	Carbon Resistor		
R5165, 5166	ERD25TJ102	"			R7111	ERD25TJ561	"		
R5167	ERD25TJ223	"			R7114	ERG12ANJ152	Metal-Oxide Resistor		
R5168	ERD25TJ332	"			R7115, 7116	ERD25TJ152	Carbon Resistor		
R5169, 5170, 5171	ERD25TJ102	"			R7117	ERD25TJ222	"		
R5172	ERD25TJ330	"			R7118	ERD25TJ472	"		
R5173	ERD25TJ222	"			R7119	ERD25TJ222	"		
R5174	ERD25TJ472	"			R7120	ERD25TJ471	"		
R5175	ERD25TJ102	"			R7121	ERD25TJ152	"		
R5176	ERD25TJ472	"			R7122	ERG12ANJ152	Metal-Oxide Resistor		
R5177	ERD25TJ152	"			R7123	ERX2ANJ8R2	"		
R5178	ERD25TJ104	"			R7124	ERD25TJ472	Carbon Resistor		
R5179	ERD25TJ330	"			R7126	ERG12ANJ152	Metal-Oxide Resistor		
R5180	ERD25TJ472	"			R7127	ERD25TJ102	Carbon Resistor		
R6101, 6102	ERD25TJ122	"			R7128	ERD25TJ222	"		
R6103	ERD25TJ102	"			R7129	ERD25TJ472	"		
R6104	ERG12ANJ101	Metal-Oxide Resistor			R7130	ERD25TJ222	"		
R6105	ERD25TJ101	Carbon Resistor			R7139	ERX2ANJ8R2	Metal-Oxide Resistor		
R6106	ERG12ANJ151	Metal-Oxide Resistor			R8101	ERG12ANJ122	"		
R6107	ERD25TJ152	Carbon Resistor			R8102, 8103	ERD25TJ222	Carbon Resistor		
R6108	ERD25TJ222	"			R8104	ERD25TJ152	"		
R6109	ERD25TJ102	"			R8105	ERD25TJ182	"		
R6110	ERD25TJ472	"			R8106	ERG12ANJ152	Metal-Oxide Resistor		
R6111	ERD25TJ222	"			R8107	ERD25TJ394	Carbon Resistor		
R6112	ERD25TJ823	"			R8111, 8112	ERD25TJ393	"		
R6113	ERG12ANJ151	Metal-Oxide Resistor			R8113	ERD25TJ123	"		
R6114	ERD25TJ152	Carbon Resistor			R8114	ERD25TJ273	"		
R6115	ERD25TJ222	"			R8201	ERG12ANJ122	Metal-Oxide Resistor		
R6116	ERD25TJ102	"			R8202, 8203	ERD25TJ222	Carbon Resistor		
R6117	ERG12ANJ122	Metal-Oxide Resistor			R8204	ERD25TJ152	"		
R6118	ERG12ANJ331	"			R8205	ERD25TJ182	"		
R6119	ERD25TJ103	Carbon Resistor			R8206	ERG12ANJ152	Metal-Oxide Resistor		
R6201, 6202	ERD25TJ122	"			R8207	ERD25TJ394	Carbon Resistor		
R6203	ERD25TJ102	"			R8211, 8212	ERD25TJ393	"		
R6204	ERG12ANJ101	Metal-Oxide Resistor			R8213	ERD25TJ123	"		
R6205	ERD25TJ101	Carbon Resistor			R8214	ERD25TJ273	"		
R6213	ERG12ANJ151	Metal-Oxide Resistor			R9101, 9102	ERD25TJ104	"		
R6214	ERD25TJ152	Carbon Resistor			R9103, 9104	ERD25TJ103	"		
R6215	ERD25TJ222	"			R9105, 9106, 9107, 9108, 9109, 9110	ERD25TJ102	"		
R6216	ERD25TJ102	"			R9112	ERD25TJ183	"		
R6217	ERG12ANJ122	Metal-Oxide Resistor			R9113	ERD25TJ473	"		
R6218	ERG12ANJ331	"			R9114, 9115	ERD25TJ393	"		
R6219	ERD25TJ103	Carbon Resistor							
R7102	ERG12ANJ152	Metal-Oxide Resistor							
R7103	ERD25TJ222	Carbon Resistor							
R7104	ERD25TJ472	"							
R7105	ERD25TJ152	"							
R7106	ERD25TJ682	"							

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks	Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
R9116	ERD25TJ102	Carbon Resistor			R9258,9259				
R9117	ERD25TJ682	"			ERD25TJ392	Carbon Resistor			
R9118	ERD25TJ102	"					VARIABLE RESISTORS		
R9119	ERD25TJ223	"			VR1	EVNK0AA00B24	Semi-Fixed Variable Resistor		
R9120	ERD25TJ331	"			VR101	EVNK0AA00B53	"		
R9121	ERD25TJ473	"			VR102, 103	EVNK4AA00B14	"		
R9122,9123	ERD25TJ101	"			VR104	EVNK4AA00B24	"		
R9124	ERD25TJ681	"			VR141	EVH2WAS20B54	Variable Resistor		
R9125	ERG12ANJ470	Metal-Oxide Resistor			VR181	EVH2WAS20B53	"		
R9126,9127	ERD12ANJ560	"			VR201	EVNK4AA00B53	Semi-Fixed Variable Resistor		
R9141	ERD25TJ224	Carbon Resistor			VR202, 203	EVNK4AA00B14	"		
R9142	ERD25TJ471	"			VR204	EVNK4AA00B24	"		
R9143	ERD25TJ102	"			VR241	EVH2WAS20B54	Variable Resistor		
R9150	ERD25TJ333	"			VR281	EVH2WAS20B53	"		
R9151,9152	ERG12ANJ101	Metal-Oxide Resistor			VR501	EVNK4AA00B14	Semi-Fixed Variable Resistor		
R9153	ERD25TJ223	Carbon Resistor			VR601	EVNK4AA00B13	"		
R9154	ERD25TJ224	"			VR801, 802	EVNK0AA00B54	"		
R9155	ERD25TJ122	"			VR911	EVNK4AA00B54	"		
R9156	ERD25TJ561	"			VR931, 961	EVNK4AA00B14	"		
R9157	ERD25TJ391	"			VR211,2112,2113, 2211,2212,2213				
R9158,9159	ERD25TJ392	"			VR3141	EVNK0AA00B14	"		
R9161	ERD25TJ821	"			VR3142	EVNK0AA00B52	"		
R9162	ERD25TJ102	"			VR3143	EVNK0AA00B13	"		
R9163	ERD25TJ682	"			VR3241	EVNK0AA00B52	"		
R9164	ERD25TJ223	"			VR3242	EVNK0AA00B53	"		
R9165	ERD25TJ222	"			VR3243	EVNK0AA00B13	"		
R9166	ERD25TJ472	"			VR4101	EVNK0AA00B54	"		
R9167	ERD25TJ563	"			VR4102	EVNK0AA00B25	"		
R9168	ERD25TJ224	"			VR4103	EVNK0AA00B13	"		
R9169	ERD25TJ563	"			VR5101	EVNK0AA00B52	"		
R9170	ERD25TJ183	"			VR5103	EVNK0AA00B14	"		
R9171	ERD25TJ682	"			VR6101,6201	EVNK4AA00B15	"		
R9172	ERD25TJ331	"			VR8101	QWCFNAR30A24	Variable Resistor		
R9173	ERD25TJ104	"			VR8102	EVCTWA237A24	"		
R9174	ERD25TJ271	"			VR8103	EVHF1A207B53	"		
R9221	ERD25TJ473	"			VR8104	EVHF2A207G54	"		
R9222,9223	ERD25TJ101	"			VR8105	EVNK0AA00B54	Semi-Fixed Variable Resistor		
R9224	ERD25TJ681	"			VR8201	QWCFNAR30A24	Variable Resistor		
R9225	ERG12ANJ470	Metal-Oxide Resistor			VR8202	EVCTWA237A24	"		
R9226,9227	ERD12ANJ560	"			VR8203	EVHF1A207B53	"		
R9241	ERD25TJ224	Carbon Resistor			VR8204	EVHF1A207G54	"		
R9242	ERD25TJ471	"			VR8205	EVNK0AA00B54	Semi-Fixed Variable Resistor		
R9243	ERD25TJ102	"			VR9101	EVNK0AA00B53	"		
R9250	ERD25TJ333	"			VR9102,9103,9104,9105		"		
R9253	ERD25TJ223	"				EVNK0AA00B54	"		
R9254	ERD25TJ224	"			VR9106	EWKH3A237A24	Variable Resistor		
R9255	ERD25TJ122	"			VR9141,9142	EVNK0AA00B15	Semi-Fixed Variable Resistor		
R9256	ERD25TJ561	"							
R9257	ERD25TJ391	"							

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks	Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
VR9151,9152	QVLSR29D104B	Semi-Fixed Variable Resistor			C171	ECEA1ES471	Electrolytic Capacitor		
VR9161	EVNKOAA00B52	"			C172	ECEA1CS100	"		
VR9162	EVNKOAA00B54	"			C173	ECEA1CS101	"		
VR9163	EVNKOAA00B13	"			C174	ECEA1ES101	"		
VR9241,9242	EVNKOAA00B15	"			C181	ECQS5221	Styrol Capacitor		
VR9251,9252	EVNKOAA00B54	"			C190	ECQM05103KZ	Mylar Capacitor		
		CAPACITORS			C201	ECSZ25AF10E	Tantalum Capacitor		
C1,2	ECEA1AS101	Electrolytic Capacitor			C202	ECEA1CS221	Electrolytic Capacitor		
C3,4,5,6,7,8,9,10,11	ECKD1H103ZF	Ceramic Capacitor			C205	ECEA0JS221	"		
C12,13	ECEA1CS100	Electrolytic Capacitor			C206	ECEA1CS221	"		
C14	ECEA0JS221	"			C207	ECQM05104MX	Mylar Capacitor		
C15,16	ECQM05683MX	Mylar Capacitor			C208	ECEA0JS221	Electrolytic Capacitor		
C17	ECEA1CS100	Electrolytic Capacitor			C209	ECCD1H151K	Ceramic Capacitor		
C18	ECEA1CS330	"			C210	ECCD1H220KC	"		
C19	ECEA1CS100	"			C212	ECEA1AS221	Electrolytic Capacitor		
C21	ECEA1AS101	"			C213	ECQM05332KZ	Mylar Capacitor		
C22	ECEA1CS100	"			C215,217,221		"		
C23,24	ECQM05683MX	Mylar Capacitor				ECQM05103JZ	"		
C25	ECEA1HS2R2	Electrolytic Capacitor			C235	ECKD1H562KB	Ceramic Capacitor		
C26,27	ECEA1CS100	"			C241,242	ECEA1ES330	Electrolytic Capacitor		
C28	ECEA1CS330	"			C244	ECCD1H470KC	Ceramic Capacitor		
C101	ECSZ25AF10E	Tantalum Capacitor			C248,249,250		"		
C102	ECEA1CS22	Electrolytic Capacitor				ECQM05104JZ	Mylar Capacitor		
C105	ECEA0JS221	"			C251	ECCD1H470KC	Ceramic Capacitor		
C106	ECEA1CS221	"			C254,255	ECEA1ES330	Electrolytic Capacitor		
C108	ECEA0JS221	"			C281	ECQS5221J	Styrol Capacitor		
C109	ECCD1H151K	Ceramic Capacitor			C302,303,304		"		
C110	ECCD1H220KC	"				ECKD1H223ZF	Ceramic Capacitor		
C111	ECQM05104MX	Mylar Capacitor			C306	ECQM05103KV	Mylar Capacitor		
C112	ECEA1AS221	Electrolytic Capacitor			C307	ECQM05102KV	"		
C113	ECQM05332KZ	Mylar Capacitor			C308	ECQM05103KV	"		
C114	ECEA25N10	Electrolytic Capacitor			C309,310	ECQM05104MX	"		
C115	ECQM05103JZ	Mylar Capacitor			C311	ECEA1HS010	Electrolytic Capacitor		
C116	ECEA25N10	Electrolytic Capacitor			C312	ECCD1H101KC	Ceramic Capacitor		
C117	ECQM05103JZ	Mylar Capacitor			C313,314	ECQM05102KV	Mylar Capacitor		
C120	ECEA25N10	Electrolytic Capacity			C315,316	ECEA1CS100	Electrolytic Capacitor		
C121	ECQM05103JZ	Mylar Capacitor			C317,318,319,320		"		
C122	ECEA25N10	Electrolytic Capacitor				ECEA1ES4R7	"		
C135	ECKD1H562KB	Ceramic Capacitor			C321,322	ECKD1H223ZF	Ceramic Capacitor		
C141,142	ECEA1ES330	Electrolytic Capacitor			C323,324,325,326,327,328		"		
C144	ECCD1H470KC	Ceramic Capacitor				ECQM05102KV	Mylar Capacitor		
C148,149,150	ECQM05104JZ	Mylar Capacitor			C329,330	ECEA1CS100	Electrolytic Capacitor		
C151	ECCD1H470KC	Ceramic Capacitor			C331,332	ECQM05104MX	Mylar Capacitor		
C154,155	ECEA1ES330	Electrolytic Capacitor			C501	ECQM05103MX	"		
C156	ECEA1ES4R7	"			C502,503	ECCD1H470KC	Ceramic Capacitor		
C161	ECEA1ES471	"			C504	ECQM05104M2	Mylar Capacitor		
C162	ECEA1CS100	"			C505	ECSZ25EF10Q	Tantalum Capacitor		
C163	ECEA1CS101	"			C506,507	ECQF6222KZ	Polypropylene Capacitor		
C164	ECEA1ES101	"			C508	ECQM05393KZ	Mylar Capacitor		
					C509	ECQF6222KZ	Polypropylene Capacitor		
					C510	ECQS5101J	Styrol Capacitor		
					C511	ECQS5221J	"		
					C512,513	ECQM05103MZ	Mylar Capacitor		
					C521	ECSZ25EF10Q	Tantalum Capacitor		

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks	Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
C522	ECQM05103MZ	Mylar Capacitor			C881	ECEA1CS330	Electrolytic Capacitor		
C523	ECQM05104MZ	"			C882	ECEA1AS101	"		
C524	ECQF4223KZ	Polypropylene Capacitor			C883	ECEA1ES4R7	"		
C525,526	ECQF6272KZ	"			C901	ECQM05153MX	Mylar Capacitor		
C527	ECQM05103MZ	Mylar Capacitor			C902	ECEA1ES4R7	Electrolytic Capacitor		
C551	ECSZ25EF10Q	Tantalum Capacitor			C903	ECQM05102KV	Mylar Capacitor		
C552	ECQM05103MZ	Mylar Capacitor			C904,905	ECEA1CS100	Electrolytic Capacitor		
C553	ECQM05104MZ	Mylar Capacitor			C906	ECQM05102KV	Mylar Capacitor		
C554	ECQF4223KZ	Polypropylene Capacitor			C911	ECEA50Z1	Electrolytic Capacitor		
C555,556	ECQF6272KZ	"			C912	ECCD1H331K	Ceramic Capacitor		
C557	ECQM05103MZ	Mylar Capacitor			C913	ECQF4223KZ	Polypropylene Capacitor		
C601	ECET1JR222	Electrolytic Capacitor			C914	ECQM05104MZ	Mylar Capacitor		
C602	ECET1HR222	"			C915	ECQM05223KZ	"		
C603,604,605,606	ECET1HR222	"			C916	ECQM05104MZ	"		
C607	ECEA1CS222	"			C917,918	ECQM05103KV	"		
C608	ECEA1HS010	"			C919	ECQM05822KV	"		
C621	ECEA1CS100	"			C920	ECQM05472KV	"		
C622	ECEA1CS330	"			C921	ECEA50ZR47	Electrolytic Capacitor		
C651	ECEA1JS470	"			C931	ECQM05103KV	Mylar Capacitor		
C652	ECEA1VS100	"			C932	ECEA1HS010	Electrolytic Capacitor		
C654	ECEA1HS010	"			C933	ECEA1CS470	"		
C656	ECEA1VS101	"			C934	ECEA1ES100	"		
C657	ECEA1ES470	"			C941	ECEA16Z10	"		
C658	ECEA1ES221	"			C961	ECQM05682KZ	Mylar Capacitor		
C659	ECEA1ES470	"			C962	ECQF4223KZ	Polypropylene Capacitor		
C660	ECEA1ES221	"			C963,964	ECSZ25AF1	Electrolytic Capacitor		
C662	ECEA1CS470	"			C981,982,983	ECEA50ZR22	Electrolytic Capacitor		
C663	ECEA1CS100	"			C984	ECQM05333MX	Mylar Capacitor		
C665	ECEA0JS221	"			C985	ECEA1ES101	Electrolytic Capacitor		
C666,667	ECEA1CS100	"			C986	ECQM05103KV	Mylar Capacitor		
C668	ECQM05104MX	Mylar Capacitor			C987	ECQM05682KV	"		
C669	ECQM05683KV	"			C988	ECEA50ZR1	Electrolytic Capacitor		
C701,702,703,704,705,706	ECQM05473MX	"			C989,990,991	ECEA25N10	"		
C707,708	ECQM05103KV	"			C1101,1104	ECEA1CS221	"		
C709,710	ECQM05683MX	"			C1111	ECEA1ES100	"		
C711,712,713,714,715,716	ECEA25N10	Electrolytic Capacitor			C1115	ECKD1H681KB	Ceramic Capacitor		
C717,718	ECQM05102KV	Mylar Capacitor			C1120	ECEA1HS2R2	Electrolytic Capacitor		
C719,720	ECCD1H101KL	Ceramic Capacitor			C1121	ECKD1H103MD	Ceramic Capacitor		
C791	ECCD1H221KL	"			C1122,1123	ECEA1ES331	Electrolytic Capacitor		
C792	ECQM05153MX	"			C1124	ECEA1HS2R2	"		
C795	ECEA1VS101	Electrolytic Capacitor			C1125	ECEA1HS010	"		
C802	ECEA1AS010	"			C1127	ECKD1H103MD	Ceramic Capacitor		
C803,804,805,806	ECQM05683MX	Mylar Capacitor			C1129	ECEA1AS101	Electrolytic Capacitor		
C807,808	ECEA1AS010	Electrolytic Capacitor			C1131	ECCD1H470KC	Ceramic Capacitor		
C809,810	ECEA16V10T	"			C1133	ECEA1AS101	Electrolytic Capacitor		
C811	ECEA1AS010	"			C1134	ECEA1ES4R7	"		
C813,814	ECEA1ES4R7	"			C1135,1136	ECEA1ES471	"		
C815,816	ECEA1CS330	"			C1211	ECEA1ES100	"		
C818	ECEA1CS100	"			C1215	ECKD1H681KB	Ceramic Capacitor		
					C1216	ECKD1H471KB	"		

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks	Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
C1218	ECKD1H471KB	Ceramic Capacitor			C3116,3117				
C1220	ECEA1HS2R2	Electrolytic Capacitor				ECEA1CS220	Electrolytic Capacitor		
C1221	ECKD1H103MD	Ceramic Capacitor			C3121	ECEA1ES221	"		
C1222,1223					C3122,3123				
	ECEA1ES331	Electrolytic Capacitor				ECEA1HS010	"		
C1224	ECEA1HS2R2	"			C3125	ECEA1ES221	"		
C1225	ECEA1HS010	"			C3127	ECEA1AS101	"		
C1227	ECKD1H103MD	Ceramic Capacitor			C3129	ECCD1H470KC	Ceramic Capacitor		
C1229	ECEA1AS101	Electrolytic Capacitor			C3131	ECEA1AS101	Electrolytic Capacitor		
C1231	ECCD1H470KC	Ceramic Capacitor			C3132,3133				
C1233	ECEA1AS101	Electrolytic Capacitor				ECEA1VS221	"		
C1234	ECEA1ES4R7	"			C3134	ECEA1ES470	"		
C1235,1236					C3135	ECCD1H121	Ceramic Capacitor		
	ECEA1ES471	"			C3141	ECQM05122JZ	Mylar Capacitor		
C1901	ECCD1H560KC	Ceramic Capacitor			C3142	ECQM05332JZ	"		
C1902	ECCD1H120K	"			C3143	ECQM05392JZ	"		
C1903	ECCD1H221K	"			C3211	ECQM05104MZ	"		
C1921	ECEA1AS470	Electrolytic Capacitor			C3212	ECCD1H100KC	Ceramic Capacitor		
C1922	ECEA0JS101	"			C3213	ECQM05274KZ	Mylar Capacitor		
C1923	ECQM05473MX	Mylar Capacitor			C3215	ECQM05472JZ	Mylar Capacitor		
C2101,2102					C3216,3217				
	ECEA1CS101	Electrolytic Capacitor				ECEA1CS220	Electrolytic Capacitor		
C2103,2104					C3221	ECEA1ES221	"		
	ECQM05104MX	Mylar Capacitor			C3222,3223				
C2111	ECQM05104MZ	"				ECEA1HS010	"		
C2112	ECCD1H100KC	Ceramic Capacitor			C3225	ECEA1ES221	"		
C2113,2114					C3227	ECEA1AS101	"		
	ECEA1CS220	Electrolytic Capacitor			C3229	ECCD1H470KC	Ceramic Capacitor		
C2115,2117					C3231	ECEA1AS101	Electrolytic Capacitor		
	ECEA1CS100	"			C3232,3233				
C2118	ECQM05392KZ	Mylar Capacitor				ECEA1VS221	"		
C2131,2132,2133,2134,2135,2136					C3234	ECEA1ES470	"		
	ECEA1CS220	Electrolytic Capacitor			C3235	ECCD1H121K	Ceramic Capacitor		
C2137	ECCD1H820KC	Ceramic Capacitor			C3241	ECQM05122JZ	Mylar Capacitor		
C2211	ECQM05104MZ	Mylar Capacitor			C3242	ECQM05332JZ	"		
C2212	ECCD1H100KC	Ceramic Capacitor			C3243	ECQM05392JZ	"		
C2213,2214					C4101	ECQM05223KZ	"		
	ECEA1CS220	Electrolytic Capacitor			C4102,4103				
C2215,2217						ECQS1681JZ	Styrol Capacitor		
	ECEA1CS100	"			C4104	ECEA1HS010	Electrolytic Capacitor		
C2218	ECQM05392KZ	Mylar Capacitor			C4105	ECCD1H390KC	Ceramic Capacitor		
C2237	ECCD1H820KC	Ceramic Capacitor			C4106	ECCD1H151K	"		
C3101,3102					C4107	ECCD1H220KC	"		
	ECEA1ES101	Electrolytic Capacitor			C4108	ECEA1HS010	Electrolytic Capacitor		
C3103,3104					C4109	ECQM05103KV	Mylar Capacitor		
	ECQM05104MX	Mylar Capacitor			C4110	ECEA1CS330	Electrolytic Capacitor		
C3105,3106,3107,3108,3109,3110					C4111	ECQM05103KZ	Mylar Capacitor		
	ECEA1CS220	Electrolytic Capacitor			C4115	ECEA1CS330	Electrolytic Capacitor		
C3111	ECQM05104MZ	Mylar Capacitor			C4116	ECQM05562KZ	Mylar Capacitor		
C3112	ECCD1H100KC	Ceramic Capacitor			C4117	ECQM05103KZ	"		
C3113	ECQM05274KZ	Mylar Capacitor			C4118	ECEA1ES3R3	Electrolytic Capacitor		
C3115	ECQM05472JZ	"			C4119	ECEA1AS101	"		
					C4120	ECEA25N3R3	"		
					C4121,4122				
						ECEA1CS101	"		

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks	Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
C4123,4124	ECQM05683KV	Mylar Capacitor			C7122	ECEA1ES221	Electrolytic Capacitor		
C4125,4126	ECEA25N3R3	Electrolytic Capacitor			C8101,8102	ECQM05682KZ	Mylar Capacitor		
C5101	ECQM05682MZ	Mylar Capacitor			C8111	ECQM05104MX	"		
C5102	ECEA50ZR1	Electrolytic Capacitor			C8201,8202	ECQM05682KZ	"		
C5103	ECQM05393KZ	Mylar Capacitor			C9101	ECQF4153KZ	Polypropylene Capacitor		
C5104	ECQM05822KZ	"			C9102	ECQS1122KZ	Styrol Capacitor		
C5105	ECEA1CS470	Electrolytic Capacitor			C9103	ECQF4153KZ	Polypropylene Capacitor		
C5106	ECQM05222MZ	Mylar Capacitor			C9104	ECQS1122KZ	Styrol Capacitor		
C5107	ECEA1CS100	Electrolytic Capacitor			C9105	ECCD1H330KC	Ceramic Capacitor		
C5108	ECSZ16EF4R7	"			C9106	ECEA1ES4R7	Electrolytic Capacitor		
C5109	ECEA1HS010	"			C9107	ECCD1H100KC	Ceramic Capacitor		
C5110	ECEA1ES3R3	"			C9108,9109	ECEA1CS100	Electrolytic Capacitor		
C5111,5112	ECQM05103KV	Mylar Capacitor			C9110	ECQM05104MX	Mylar Capacitor		
C5113	ECEA1CS101	Electrolytic Capacitor			C9111	ECEA1CS330	Electrolytic Capacitor		
C5114	ECEA16U33	"			C9112	ECQM05104MX	Mylar Capacitor		
C5115	ECEA1CS101	"			C9115	ECEA1CS220	Electrolytic Capacitor		
C5116	ECEA1AS470	"			C9121	ECEA1ES4R7	"		
C5117,5118	ECEA0JS331	"			C9122	ECCD1H101K	Ceramic Capacitor		
C5119	ECEA1CS101	"			C9123	ECEA1ES100	Electrolytic Capacitor		
C5120,5121	ECEA25N33	"			C9124,9125	ECEA1CS101	"		
C5122	ECEA1CS101	"			C9126	ECQM05683MX	Mylar Capacitor		
C5123	ECEA1CS101	"			C9127	ECCD1H331K	Ceramic Capacitor		
C5124,5130	ECEA1CS100	"			C9128	ECKD1H682KB	"		
C5131	ECEA1CS330	"			C9129	ECKD1H103MD	"		
C6101	ECQM05104MX	Mylar Capacitor			C9130	ECEA1ES221	Electrolytic Capacitor		
C6102,6103	ECKD1H333ZF	Ceramic Capacitor			C9131	ECKD1H152KB	Ceramic Capacitor		
C6104,6204	ECEA1CS331	Electrolytic Capacitor			C9141	ECQM05104MZ	Mylar Capacitor		
C7101	ECEA1ES100	"			C9142	ECCD1H100KC	Ceramic Capacitor		
C7102	ECEA1VS330	"			C9143,9144	ECEA1CS220	Electrolytic Capacitor		
C7103	ECEA1ES100	"			C9146	ECEA1CS221	"		
C7104	ECEA1HS010	"			C9147	ECKD1H103ZF	Ceramic Capacitor		
C7105	ECEA1VS101	"			C9148	ECEA1CS221	Electrolytic Capacitor		
C7106	ECEA1VS330	"			C9149	ECKD1H103ZF	Ceramic Capacitor		
C7107	ECEA1ES100	"			C9151,9152	ECEA1CS100	Electrolytic Capacitor		
C7108	ECEA1VS101	"			C9153	ECCD1H100KC	Ceramic Capacitor		
C7110	ECEA1VS221	"			C9154	ECEA1CS220	Electrolytic Capacitor		
C7111	ECEA1VS330	"			C9161,9162,9163	ECQM05223KZ	Mylar Capacitor		
C7112	ECEA1ES100	"			C9164	ECEA1CS330	Electrolytic Capacitor		
C7113	ECEA1HS010	"			C9165	ECEA1ES3R3	"		
C7114	ECEA1ES100	"			C9166	ECEA1CS330	"		
C7115	ECEA1VS330	"			C9167	ECEA1CS100	"		
C7116	ECEA1ES100	"			C9168	ECQM05683MX	Mylar Capacitor		
C7117	ECEA1VS221	"			C9169	ECEA1CS101	Electrolytic Capacitor		
C7118	ECEA1VS330	"			C9221	ECEA1ES4R7	"		
C7119	ECEA1ES100	"			C9222	ECCD1H101K	Ceramic Capacitor		
C7120	ECEA1HS010	"			C9223	ECEA1ES100	Electrolytic Capacitor		
C7121	ECEA1CS100	"			C9224,9225	ECEA1CS101	"		

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks	Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
C9226	ECQM05683MX	Mylar Capacitor			Q161	2SC1407	Transistor		
C9227	ECCD1H331K	Ceramic Capacitor			Q171	2SA752	"		
C9228	ECKD1H682KB	"			Q172	2SA564	"		
C9229	ECKD1H103MD	"			Q201,202	M47LP	"		
C9230	ECEA1ES221	Electrolytic Capacitor			Q203,204	205,206	"		
C9231	ECKD1H152KB	Ceramic Capacitor				2SK66	"		
C9241	ECQM05104MZ	Mylar Capacitor			Q241	2SC1328	"		
C9242	ECCD1H100KC	Ceramic Capacitor			Q242	2SC1317	"		
C9243,9244					Q301	2SA798	"		
	ECEA1CS220	Electrolytic Capacitor			Q302	2SC828	"		
C9251,9252					Q303	2SC1846	"		
	ECEA1CS100	"			Q304	2SA885	"		
C9253	ECCD1H100KC	Ceramic Capacitor			Q305,306,307,308,				
C9254,9255					309,310,311,312				
	ECEA1CS220	Electrolytic Capacitor				2SC828	"		
					Q313	2SC1846	"		
		COMBINATION PARTS			Q314	2SC828	"		
Z1901	QZE0004A	Crystal			Q315	2SC1846	"		
Z4101,5101					Q316,317,318,				
	FUWA2BC70	Analog Memory Device			319,320,321				
Z9141	QV1XM02	Peak Meter Driving Unit				2SA719	"		
Z601,602	ECQR0011A	Spark Killer		Δ	Q501	2SC828	"		
Z301,302	ON1102	Photo Coupler			Q502	2SC1846	"		
					Q503	2SC828	"		
		TRANSISTORS			Q504,505	2SC1407	"		
Q1	2SC1317	Transistor			Q506,521	2SC828	"		
Q2,3	2SC828	"			C522,523	2SC1383	"		
Q4	2SC1317	"			Q524,551	2SC828	"		
Q5,6	2SC828	"			Q552,553	2SC1383	"		
Q7,8,9	2SA564	"			Q554	2SC828	"		
Q10	2SC828	"			Q621	2SC1384	"		
Q11,12,13	2SA719	"			Q622	2SC1848	"		
Q14	2SA564	"			Q623	2SC828A	"		
Q15	2SC828	"			Q624	2SC1384	"		
Q16	2SA564	"			Q625	2SC1848	"		
Q17	2SC828	"			Q626	2SC828A	"		
Q18,19	2SA564	"			Q651	2SD334	"		
Q20,21,22,23,24,25					Q652	2SA683	"		
	2SC828	"			Q653,654	2SC1317	"		
Q26,28	2SC1317	"			Q655	2SD334	"		
Q29,30	2SC828	"			Q656	2SB512	"		
Q31	2SC1317	"			Q657	2SC1383	"		
Q32	2SC828	"			Q658	2SC828A	"		
Q33,34	2SA719	"			Q659	2SC828	"		
Q35	2SA564	"			Q660	2SD812	"		
Q36	2SC828	"			Q661	2SC1383	"		
Q37	2SC1317	"			Q662	2SD812	"		
Q38,39,40,41					Q663	2SA683	"		
	2SC828	"			Q664	2SA564	"		
Q101,102	M47LP	"			Q665	2SD334	"		
Q103,104	105,106	"			Q666	2SC1383	"		
	2SK66	"			Q667,668	2SC828	"		
Q141	2SC1328	"			Q701,702	703,704	"		
Q142	2SC1317	"				2SA564	"		
Q143	2SA564	"							

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks	Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
Q705,706, 708,709,	707, 710 2SA722	Transistor			Q1111	2SC1328	Transistor		
Q711,712, 714,715,	713, 716 2SC1383	"			Q1121	2SA798	"		
Q717,718, 720,721,	719, 722 2SB747	"			Q1123	2SC1384	"		
Q723,724, 726,727,	725, 728 2SC1328	"			Q1124	2SA752	"		
Q729,730, 732,733,	731, 734 2SA683	"			Q1125	2SC1407	"		
Q735,736, 739,740,	737,738, 741,742 2SD812	"			Q1211	2SC1328	"		
Q743,744,	745,746 2SA564	"			Q1221	2SA798	"		
Q747,748,	749,750 2SC828	"			Q1223	2SC1384	"		
Q751,752,	753,754 2SA564	"			Q1224	2SA752	"		
Q791,792	2SC828	"			Q1225	2SC1407	"		
Q801,802, 805,806,	803,804, 807,808 2SC828	"			Q1902	2SA564	"		
Q809,810	2SC1317	"			Q1921	2SC828	"		
Q811,812	2SA564	"			Q1922	2SA564	"		
Q817,818	2SC828	"			Q1923,1924,1925,1926	2SC828	"		
Q819,820	2SA564	"			Q1927	2SC1317	"		
Q821,822,	823,824 2SC828	"			Q1928	2SC828	"		
Q825,826,	827,828,832 2SA564	"			Q2111	2SC1328	"		
Q881	2SC1317	"			Q2112,2113,2114	2SK66	"		
Q882,883,	884 2SA564	"			Q2211	2SC1328	"		
Q885	2SC828	"			Q2212,2213,2214, 3101,3102	2SK66	"		
Q901	2SC1327	"			Q3121	2SA798	"		
Q902	2SC828	"			Q3123	2SC1384	"		
Q931	2SC1846	"			Q3124	2SA752	"		
Q932,941, 943,944,	942, 945 2SC828	"			Q3125	2SC1407	"		
Q946	2SA564	"			Q3141,3142,3143	2SC828	"		
Q962,963,	964 2SC828	"			Q3201,3202	2SK66	"		
Q981,982,	983 2SA719	"			Q3221	2SA798	"		
Q984,985,	986 2SD389	"			Q3223	2SC1384	"		
Q987,988,	989 2SB512	"			Q3224	2SA752	"		
					Q3225	2SC1407	"		
					Q3241,3242,3243,4101, 4102,4103,4104,4105	2SC828	"		
					Q4106	2SA564	"		
					Q4107,4108	2SC828	"		
					Q4109	2SA564	"		
					Q4110	2SK30AO	"		
					Q4111	2SA564	"		
					Q4112,4113	2SK30A	"		
					Q4114	2SA564	"		
					Q5101,5102,5103, 5104,5105,5106	2SC828	"		
					Q5107,5108,5109	2SA564	"		

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks	Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
Q5110,5111,5112,5113, 5114,5115,5116,5117, 5118,5119,5120	2SC828	Transistor			IC9141,9151	TA7506P	Integrated Circuit		
Q6101	2SA719	"			IC9202	TA7140P	"		
Q6102	2SA564	"			IC9241,9251	TA7506P	"		
Q6103	2SC828	"							
Q6104	2SA719	"					DIODES & RECTIFIERS		
Q6105	2SC1317	"			D1,2,3,4	OA90M	Diode		
Q6204	2SA719	"			D5,6,7,101,102,103, 104,106,107,108, 109,110,111	MA150	"		
Q6205	2SC1317	"			D161	MA1150	"		
Q7101	2SC1407	"			D181,202,204,207, 210,281,301,302, 303,304,305	MA150	"		
Q7102	2SC1684	"			D306	MA1130	"		
Q7103	2SA564	"			D307,501	MA1056	"		
Q7104	2SA752	"			D521	QVDM8513ARM	"		
Q7105	2SD389	"			D522,523	OA90M	"		
Q7106	2SC1383	"			D524	MA150	"		
Q7107	2SC1684	"			D551	QVDM8513ARM	"		
Q7108	2SA564	"			D552,553	OA90M	"		
Q7109	2SA683	"			D554	MA150	"		
Q7110,7111	2SD389	"			D601,602,603, 604,605,606	SR3AM2N	Silicon Rectifier		
Q7112	2SC1383	"			D607	10DC1	"		
Q7113	2SC1684	"			D608	10DC1R	"		
Q9101	2SA564	"			D609	10DC1	"		
Q9102	2SK30AO	"			D610	10DC1R	"		
Q9161,9162	2SC1328	"			D611,612	SR3AM2N	"		
		INTEGRATED CIRCUITS			D613	SM102	"		
IC1	AN6251	Integrated Circuit			D621,622	OA90M	Diode		
IC2,3	M53200P	"			D651	SR3AM2N	Silicon Rectifier		
IC4	M53204P	"			D652	MA1068	Diode		
IC5	M53203P	"			D653	MA1220	"		
IC6	M53200P	"			D654	MA1062	"		
IC101,141,201,241	TA7506P	"			D655	OA90M	"		
IC313	MN1499A	"			D701,702,703,704,705, 706,707,708,801,802, 803,804,805,806,808	MA160	"		
IC314,315	QVI2708	"			D931	MA1062	"		
IC911	AN660	"			D941,942	MA150	"		
IC981	AN640F	"			D943	MA1056	"		
IC1901,1902,1903,1904	M54813L	"			D1122,1123	MA150	"		
IC2111,2211,3111,3211	TA7506P	"			D1222,1223,1901,1902, 1903,1904,1905,2111, 2112,2113,2211,2212, 2213,3101,3102,3103, 3111,3112	MA150	"		
IC4101	UPC4558C	"							
IC4102	M53200P	"							
IC4103,5101,5102	UPC4558C	"							
IC5103,6101,6102	M53200P	"							
IC9101	TA7506P	"							
IC9102	TA7140P	"							

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Ref. No.	Part No.	Part Name & Description	Per Set	Remarks	Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
D3122,3123,3124, 3211,3212	MA150	Diode			K181,281	QSK0234	RELAYS Relay		
D3222,3223,3224,4101, 4102,4103,4104,4105, 5101,5102,5103,5104, 5105,5106,5107	MA150	"			K6101	QSK0424	"		
D5108	MA1062	"			K6102,6103,6202,6203	QSK0234	"		
D5109,5110,5111, 5112,5113,5116	MA150	"					SWITCHES		
D5117	OA90M	"			S1,2,3, 4,5,6	EVQPAR11K	Push Switch (Control Key Switch)		
D5118,5119,5120,5121, 5122,5123,5124,5125, 6101,6102,6103,6104, 6201,6202,6204	MA150	"			S7,8,9	Refer to E66	Push Switch (Tape Speed Selector)		
D7102,7105	MA1068	"			S10 11 12	EVQPAR11K	Push Switch (Pitch Control Selector)		
D7107	MA1062	"			S13	QSW2214A	Push Switch (Power ON/OFF Switch)		△
D8101,8102	LN26RPLCF	"			S14 15 16	Refer to E6	Push Switch (Tape Transport Mode Selector)		
D8103	LN16BPLCF	"			S23	QSS4212A	Slide Switch (NAB/IEC Selector)		
D8201,8202	LN26RPLCF	"			S24,25	QSM0068	Micro Switch		△
D8203	LN16BPLCF	"			S26	QSR1407H	Rotary Switch (AC Power Voltage Selector)		
D9151,9152	OA90M	"			S27	QSM0068	Micro Switch		
D9161,9162	MA150	"			S31	QSR4402A	Rotary Switch (Test Oscillator Selector)		
D9251,9252	OA90M	"			S32,33	QSR4202A	Rotary Switch (Record Mode Selector)		
L181	QLH2020	Bias Trap Coil			S34,35	QSR2201H	Rotary Switch (Bias/Equalizer Selector)		
L182	QLQC6021K	Erase Head Dummy Coil			S36,37	QST2225A	Toggle Switch (Monitor Selector)		
L281	QLH2020	Bias Trap Coil			S38,39	QSR6201A	Rotary Switch (Line/OSC Selector)		
L282	QLQC6021K	Erase Head Dummy Coil			S40,41	QSR4302A	Rotary Switch (Meter Selector)		
L501	QLB0182	Oscillation Coil			S42	QSS4212A	Slide Switch (Input Selector)		
L521	QLB0181	RF Coil			S43	QSS4212A	Slide Switch (Load Impedance Selector)		
L522	QLB0182	Oscillation Coil					FUSES (Old Type/New Type)		
L551	QLB0181	RF Coil					For the units prior to serial number RI8□□□□□, use the old type fuse. For the units often serial number RJ8□□□□□, use the new type fuse.		
L552	QLB0182	Oscillation Coil							
L1111	QLH2009	Line Output Bias Trap Coil			F1	XBA1C40N55	Fuse (4A)		△
L1112	QLH2008	Peaking Coil			F601	XBA1C40N55	Fuse (4A)		△
L1211	QLH2009	Line Output Bias Trap Coil			F602	XBA1C60NS5	Fuse (6A)		△
L3141,3241,4101	QLH2008	Peaking Coil			F603,604	605,606,607	Fuse (6A)		△
L6101,6201	QLT2J30A	Output Transformer			F1	XBAQ40003ZN	Fuse (4A)		△
L8111,8211	QZE0019	Input Transformer			F611,612	XBAQ40003ZN	Fuse (4A)		△
		TRANSFORMER			F613,614	XBAQ160029	Fuse (1.6A)		△
T1	QLPZ11FRA	Power Transformer		△	F615	XBAQ40003ZN	Fuse (4A)		△
					F616,617	XBAQ160029	Fuse (1.6A)		△

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks	Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
		JACKS			E42	QTH1131	Heat Sink		
J1,2	QJS0804X	Balanced Type LINE IN Terminal			E43	QTD1250XN	Cramper		
J3,4	QJP0804X	Balanced Type LINE OUT Terminal			E44	QHQL165S	Step Screw		
J5,6,7,8	QEJ5018S	Jack Board Unit			E45	QMA2942	P.C.B Holding Angle (D)		
J9	QJP1936X	24 Pin Plug			E46	QMF2036	Shield Plate (A)		
J10	QJS1936X	24 Pin Socket			E47	QMA2941	P.C.B Holding Angle (C)		
J11	QJA0253H	Headphones Jack			E48	QSL9014R	Level Meter		
		PILOT LAMPS			E49	QJP1924TN	12 Pin Plug		
PL1,2,3,4,5,6,7,8	XAMQ21P200	Pilot Lamp			E50	QJP1921TNL	3 Pin Plug		
		ELECTRICAL PARTS			E51	QBG1222	Rubber Bush		
E1	QWY0023	Record Head (2 Track)			E52	QBG1626	Lamp Cover		
E2	QWY0022Y	Playback Head (2 Track)			E53	QMA3431	Switch Angle		
E3	QWY0024	Erase Head (2 Track)			E54	QMC0085	Collar		
E4	QWY4017Y	Playback Head (4 Track)			E55	XNS9	Nut		
E5	QMF2037	Shield Plate (B)			E56	XWS9A	Washer		
E6	QE11200	Auto Control Switch Unit			E57	XNS7	Nut		
E7	XNS8	Nut			E58	XWS7A	Washer		
E8	XWS8A	Washer ø8			E59	QMA3421	LED Angle		
E9	QJP1921TN	3 Pin Plug			E60	QJT4017	4 Pin Terminal		
E10	QJP1922TN	6 Pin Plug			E61	QMA3436	Cover		
E11	QJP1923TN	9 Pin Plug			E62	QTW1118A	Spark Killer Cover		
E12	QJS0754	VP Connector			E63	QJT1027	Earth Terminal Nut		
E13	QJT1041A	Pin			E64	QJT1025	Earth Terminal Shaft		
E14	QJP1925TN	15 Pin Plug			E65	QJT1026	Earth Terminal Seat		
E15	QMA3156	Fuse Angle			E66	QE11542	Tape Speed Control Switch Unit		
E16	QTF1039A	Fuse Holder					CABINET PARTS		
E17	QTF1054	Fuse Holder			G1	QYW0052	Carring Case Ass'y		
E18	QJT1054	Contact			G2	QYP0800	Sub Front Panel Ass'y		
E19	QJS1922TN	6 Pin Housing			G3	QBM1256	Sub Front Panel Holder		
E20	QJS0789JN	12 Pin Housing			G4	QKS1246	Rear Board		
E21	QJT1042	Contact			G5	QKJ0170	Clamper		
E22	QJS1921TN	3 Pin Housing			G6	QBG1372	Stopper Rubber		
E23	QJS1923TN	9 Pin Housing			G7	QWQ1131	Washer		
E24	QJS1925TN	15 Pin Housing			G8	QKJ0178	Foot for Rear Board		
E25	QJS1924TN	12 Pin Housing			G9	XSN4+30BVS	Screw + 4x30		
E26	QJS0803X	12 Pin Socket			G10	XST4+8FZS	Screw + 4x8		
		(Remote Control Socket)			G11	XSN4+14FCS	Screw + 4x14		
E27	QJT1053	Contact			G12	QYP0934	Front Panel (R) Ass'y		
E28	QJP1904JO	12 Pin Plug			G13	QYP0935	Front Panel (L) Ass'y		
E29	QMA3426	Heat Sink (A)			G14	QYW0051	Carring Case Ass'y		
E30	QMA3427	Heat Sink			G15	QYT0450	Lever Knob Ass'y		
E31	GL9R04	Numeric Display LED			G16	QYT0484	Volume Knob (A) Ass'y		
E32	GL5R04A	Numeric Display LED (+, -)			G16-1	XXE4D8FZS	Screw		
E33	QFC1204M	AC Power Cord			G17	QYT0485	Volume Knob (B) Ass'y		
E34	QBJ1425A	Cord Bushing			G17-1	XXE4D8FZS	Screw		
E35	QTD1164	Cord Cramper			G18	QYT0485	Knob (D) Ass'y		
E36	QNQ1070	Nut			G18-1	XXE4D8FZS	Screw		
E37	QEF0346	Remote Control Socket			G19	QYT0487	Knob (E.B) Ass'y		
E38	QTD1001	Earth Terminal			G19-1	XXE4D8FZS	Screw		
E39	QMA3438	Transformer Angle			G20	QMF2029	Shelter		
E40	QMA3582	Heat Sink			G21	XSN3+6FZ	Screw + 3x6		
E41	QMA3436	Power Supply Cover Angle			G22	XVE4C30FZS	Hexagon Screw		
					G23	QYC0201	Counter Cover		
					G24	QGO1465	Push Button		

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
G25	QMK1738	Rear Board		
G26	QBM1253	Cushion (For Push Button		
ACCESSORIES				
A1	QFX0028	Reel Holder		
A2	RP023A	Connection Cord		
A3	QGC1114	Pinch Roller Cover		
A4	QFC2126	24-Pin Connection Cord		
A5	QFX0013	Head Creaning Kit		
A6	QYQ0273B	Reel Spacer		
A7	QQT2317	Instruction Book ✓		
PACKINGS				
P1	QPN3776	Inside Carton		
P2	QPN3777	"		
P3	QPA0443	Cushion		
P4	QPA0454	"		
P5	QPA0444	"		
P6	QPA0445	"		
P7	QPA0455	"		
P8	XZB55X63XA05	Poly Bag		
P9	XZB55X55XA05	"		
P10	QPG2850	Outside Carton		