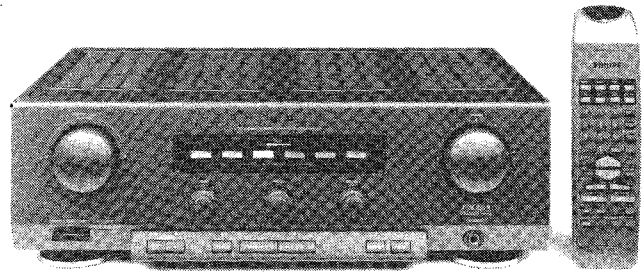


Service  
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Service



# Service Manual

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**PHILIPS**

## SPECIFICATION

### General:

Mains voltage	:230V 50Hz for/00 :240V 50Hz for/05 :120/230V 50Hz/60Hz for/01
Power consumption	:≤ 330W at 2x80W output power (at8Ω load) :≤ 520W at 2x110W output power(at4Ω load) :≤ 20W at stand by
Fuzzy Power Control	:checks the output power level continuously
Dimensions:(wxhxd)	:435x124x300 mm

### Amplifier:

Output power & Distortion (D)	:2x 80W at 8Ω D=≤0,7%(IEC/DIN) :2x110W at 4Ω D=≤0,7%(IEC 268.3) :2x 85W at 8Ω D=≤0,003% (at 1kHz) :2x 80W at 8Ω D=≤0,05% (20Hz...20kHz) :2x150W at 8Ω with IEC 268 noise
Max output power	:2x150W at 8Ω with IEC 268 noise
Sign.Noise:	
Phono input M.M.	:≥83dBA (A-curve weighted)(IEC at Prated and Rsource=2k2)
Phono input M.C.	:≥75dBA (A-curve weighted)(IEC at Prated and Rsource=100Ω)
Other inputs	:≥103dBA (A-curve weighted)(IEC at Prated and Rsource=22kΩ)
Crosstalk :	
Between channels	:≥50dB (100Hz.....10kHz)
source	:≥65dB (100Hz.....10kHz)
Loudspeaker impedance	:4.....16Ω
Headphone	:6,3mm stereo jack
Output voltage	:≥ 7,5V EMF value
Output impedance	:120Ω ±10%

### Frequency characteristic

Linear inputs (direct mode)	:15Hz....45kHz :≤1dB (at 1kHz)
Phono amplifier M.M.	:20Hz....20kHz :≤1dB (at 1kHz)
Phono amplifier M.C.	:20Hz....20kHz :≤1dB (at 1kHz)

### Tone controle

:Bass	+10dB to -10dB ±2dB at 80Hz
:Treble	+10dB to -10dB ±2dB at 10kHz
:Loudness	+6dB ±2dB volume ≤-40dB at 100Hz +4dB ±1,5dB volume ≤-40dB at10kHz

### Mute attenuation

: -20dB ±3dB

### Balance control

: 0.....-60dB minimum

### Input sensitivity

:Tuner	250mV Ri ≥ 20kΩ
:TV/AUX	250mV Ri ≥ 20kΩ
:CD	250mV Ri ≥ 20kΩ
:Tape	250mV Ri ≥ 20kΩ
:DCC	250mV Ri ≥ 20kΩ
:Process	250mV Ri ≥ 20kΩ
:Phono/MM	2,5mV Ri ≥ 47kΩ/220pf
:Phono/MC	280μV Ri ≥ 100Ω
Output voltage	
:TV/AUX	250mV Ro < 2k5
:Tape	250mV Ro < 2k5
:DCC	250mV Ro < 2k5
:Process	250mV Ro < 2k5

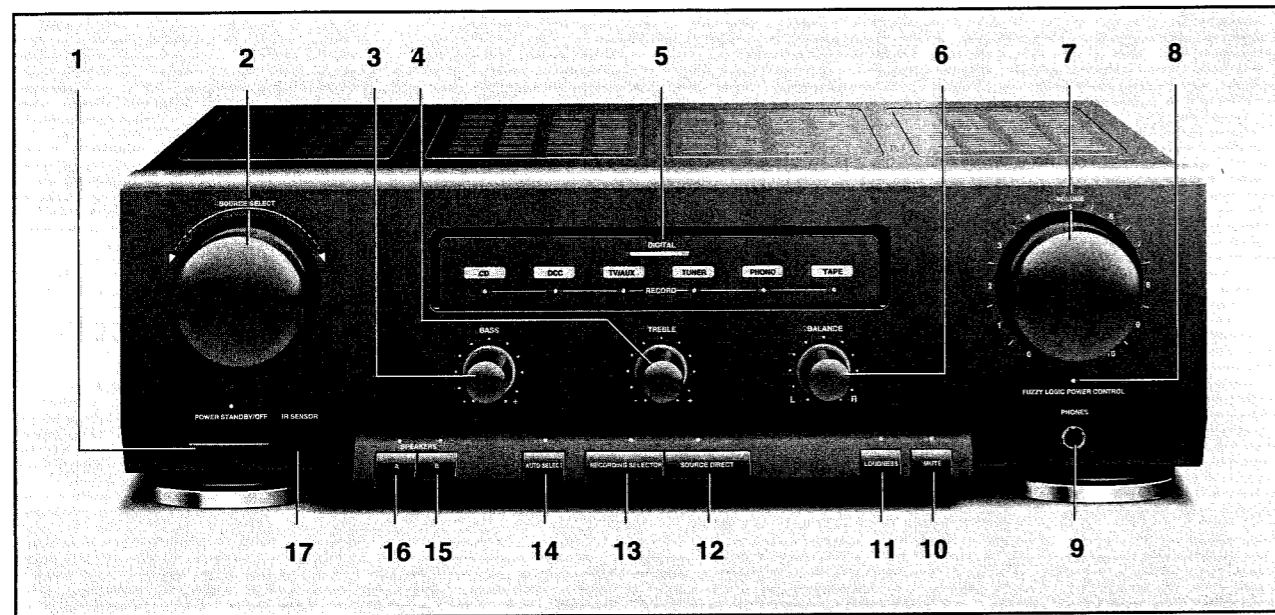
### Digital recorder selector:

input	:impedance 75Ω :sensitivity 200 ...500mV peak-peak
output	:impedance 75Ω :level 500mV peak-peak into 75Ω load
bitrate	:2...3MBit/sec
input type	:unbalanced
output type	:unbalanced

### Remote Control

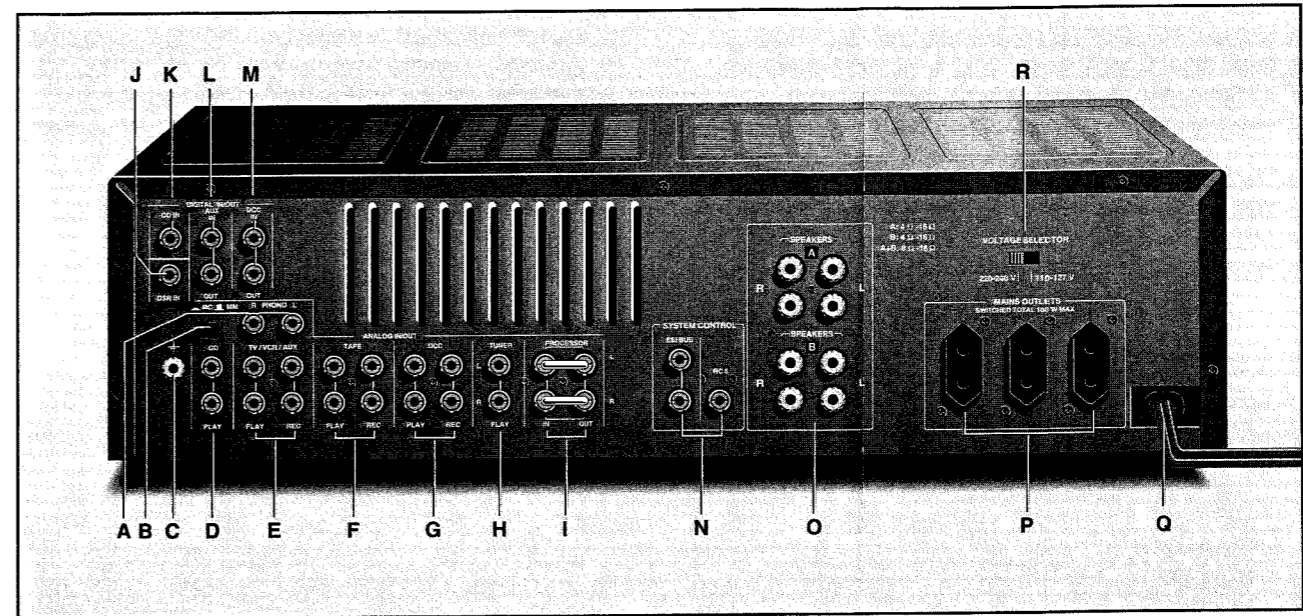
:RC5 input	1xcinch (orange)
:Enhanced easylink	2xcinch (green)

## CONTROLS



		Pos.nr.
1)	Standby + acknowledge led	D6648
	Power off/standby button	1525
2)	Source sel.knob + Mag.Touch	1605
3)	Bass knob	3651
4)	Treble knob	3652
5)	Display window and indication led	
	Digital source indication window	1620
	CD indication window	1624
	CD record source led (red)	D6642
	DCC indication window	1621
	DCC record source led (red)	D6643
	TV/AUX indication window	1626
	TV/AUX record source led (red)	D6644
	Tuner indication window	1623
	Tuner record source led (red)	D6645
	Phono indication window	1622
	Phono record source led (red)	D6646
	Tape indication window	1625
	Tape record source led (red)	D6647
6)	Balance knob	3603
7)	Volume knob	3601
8)	Fuzzy Power control Led	D6687
9)	Headphone	1601
10)	Mute button + Red indic.led	1611 + D6640
11)	Loudness button + Red indic.led	1608 + D6635
12)	Source direct but. + Red indic.led	1606 + D6636
13)	Rec.sel.button + Red indic.led	1612 + D6641
14)	Auto-select button + Red indic.led	1607 + D6639
15)	Speakers B-button + Red indic.led	1609 + D6638
16)	Speakers A-button + Red indic.led	1610 + D6637
17)	IR-receiver eye	6700

## CONNECTIONS



		Pos.nr.
A)	Phono input	1801
B)	Phono MM/MC selector	1802
C)	Phono ground	
D)	CD input	1475
E)	TV/AUX/VCR input	1401
	TV/AUX/VCR output	1401
F)	Tape input	1402
	Tape output	1402
G)	DCC input	1402
	DCC output	1402
H)	Tuner input	1403
I)	Processor in	1403
	Processor out	1403
J)	DSR (digital satellite receiver)input	1475
K)	CD digital input	1475
L)	AUX digital input	1475
	AUX digital output	1475
M)	DCC digital input	1475
	DCC digital output	1475
N)	Easy link Bus	1261
	RC 5 Bus	1262
O)	Speaker system A Right	1264
	Speaker system A Left	1264
	Speaker system B Right	1263
	Speaker system B Left	1263
P)	Switched AC outlets (max100W)	1526-27-28
Q)	Fixed mainscord	
R)	Voltage selector (for/01 only)	1532

## SERVICE TEST PROGRAM

### μ Processor Test

The test can be called up by pressing the keys Loudness and mute at the same time when the amplifier is switched on. The lamps and leds will automatically light up in order, as shown on fig 1 from step A to F.

One second after the last source indication has been selected the volume knob turns for about 1 second right and then 1 second left to check if the volume control works. After the volume check a eeprom

check is started. This is done by simulating a powerdown, all leds and lamps are switched off and a number of settings is stored and recalled from the eeprom. When after 0,2 seconds the magic touch is used to wake up the amplifier, the amplifier will come up with the setting step G see fig 1

If this is not the case check eeprom or μ processor.

FIG 1

Steps	A	B	C	D	E	F	G
<b>Lamps</b>							
CD	on	off	off	off	off	off	off
DCC	off	on	off	off	off	off	off
TV/AUX	off	off	on	off	off	off	off
TUNER	off	off	off	on	off	off	off
PHONO	off	off	off	off	on	off	off
TAPE	off	off	off	off	off	on	on
<b>Record Out Selector Leds</b>							
CD	off	off	off	off	off	on	off
DCC	off	off	off	off	on	off	off
TV/AUX	off	off	off	on	off	off	off
TUNER	off	off	on	off	off	off	off
PHONO	off	on	off	off	off	off	off
TAPE	on	off	off	off	off	off	on
<b>Source Leds</b>							
St/BY	on	off	on	off	on	off	off
Speak.A	off	on	off	on	off	on	on
Speak.B	on	off	on	off	on	off	off
Auto sel	off	on	off	on	off	on	on
Rec.sel	on	off	on	off	on	off	off
Sour.Dir.	off	on	off	on	off	on	on
Loudness	on	off	on	off	on	off	off
Mute	off	on	off	on	off	on	on

### GB

Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified be used.

### NL

Veiligheidsbepalingen vereisen dat het apparaat in zijn oorspronkelijke toestand wordt teruggebracht en dat onderdelen, identiek aan de gespecificeerde worden toegepast.

### D

Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Originalzustand des Geräts darf nicht verändert werden für Reparaturen sind Original-Ersatzteile zu verwenden.

### I

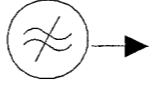

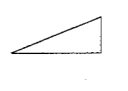



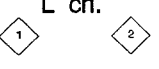
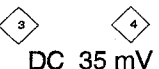


Le norme di sicurezza esigono che l'apparecchio venga rimesso nelle condizioni originali e che siano utilizzati pezzi di ricambio identici a quelli specificati.

### F

Les normes de sécurité exigent que l'appareil soit remis à l'état d'origine et que soient utilisées les pièces de rechange identiques à celles spécifiées.

Pour votre sécurité, ces documents doivent être utilisés par des spécialistes agréés, seuls habilités à réparer votre appareil en panne.

## Quiescent Current

SK... SWITCH	 SIGNAL	 TO	 VOLUME	 ADJUST	 OSILLOSCOPE	 D.C.METER INDICATOR
STAND - BY			Min.	L ch R 3285		L ch.   DC 35 mV
				R ch. R 3284		R ch.   DC 35 mV

- Check for good thermal contact between power transistor and heatsink.
- Mains Voltage 230V  $\pm 5\%$
- Ambient temperature  $= 20^\circ \pm 5^\circ$  and heatsink must be at ambient temperature.
- Set volume position to minimum.

- Place the set in stand-by position.
- Trimpotmeter in clock wise position.
- The adjustment must be finished for both channels 30sec after power on.

### GB WARNING

All ICs and many other semi conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically. When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance. Keep components and tools also at this potential.

### NL WAARSCHUWING

Alle IC's en vele andere halfgeleiders zijn gevoelig voor electrostatische ontladingen (ESD). Onzorgvuldig behandelen tijdens reparatie kan de levensduur drastisch doen verminderen. Zorg ervoor dat U tijdens reparatie via een polsband met weerstand verbonden bent met hetzelfde potentiaal als de massa van het apparaat. Houd componenten en hulpmiddelen ook op hetzelfde potentiaal.

### D WARNUNG

Alle ICs und viele andere Halbleiter sind empfindlich gegenüber electrostatischen Entladungen (ESD). Unsorgfältige Behandlung im Reparaturfall kann die Lebensdauer drastisch reduzieren. Veranlassen Sie, dass Sie im -Reparaturfall über ein Pulsarmband mit Widerstand verbunden sind mit dem gleichen Potential wie die Masse des Gerätes. Bauteile und Hilfsmittel auch auf dieses gleiche Potential halten.

### F ATTENTION

Tous les IC e beaucoup d'autre semi-conducteurs sont sensibles aux décharges statiques (ESD). Leur longévité pourrait être considérablement écourtée par le fait qu'aucune précaution n'est prise à leur manipulation. Lors de réparations, s'assurer de bien être relié au même potentiel que la masse de l'appareil et enfilez le bracelet serti d'une résistance de sécurité. Veiller à ce que les composants ainsi que les outils que l'on utilise soient également à ce potentiel.

### I AVVERTIMENTO

Tutti IC e parecchi semiconduttori sono sensibili alle scariche statiche. (ESD) La loro longevità potrebbe essere fortemente ridotta in caso di non osservazione della più grande cautela alla loro manipolazione. Durante le riparazioni occorre quindi essere collegato allo stesso potenziale che quello della massa dell'apparecchio tramite un bracciale a resistenza. Assicuratevi che i componenti e anche gli utensili con quali si lavora siano anche a questo potenziale.

**SERVICE HINTS****µProcessor pinning IC 7650**

1	Reset	Reset	21	PC7	Lamp PHONO
2	IRQ	RC-5	22	PC6	Lamp TAPE
3	VPP	+5V	23	PC5	Lamp CD
4	PA7	Standby led	24	PC4	Lamp DCC
5	PA6	Lamp CDR/AUX	25	PC3	CE2 analog/digital selector
6	PA5	Mute amplifier	26	PC2	Clock analog/digital selector
7	PA4	Standby amplifier	27	PC1	Data analog/digital selector
8	PA3	Volume up	28	PC0	CE1 analog
9	PA2	Keyboard scan line 3	29	PD0	Autoprotect line
10	PA1	Keyboard scan line 2	30	PD1	Sence rotary knob
11	PA0	Keyboard scan line 1	31	PD2	Rotary line 1
12	PB0	Keyboard return line 3	32	PD3	Rotary line 2
13	PB1	Keyboard return line 2	33	PD4	Powerdown/Option line 2
14	PB2	Keyboard return line 1/Data-out eeprom	34	PD5	Powerdown/Option line 1
15	PB3	Volume down	35	TCMP	EasyLink output
16	PB4	Data in eeprom/Data shiftregisters	36	PD7	EasyLink input
17	PB5	Clock eeprom/Clock shiftregisters	37	TCAP	EasyLink input
18	PB6	CS eeprom	38	OSC2	4 MHz crystal
19	PB7	Strobe shiftregisters	39	OSC1	4 MHz crystal
20	GND	Ground	40	VCC	+ 5V

**Fuzzy Logic Power Control**

The fuzzy logic power controller checks the output power level continuously.

If very high power levels are delivered over a prolonged period, the fuzzy logic power controller Led starts blinking. The controller regulates the power level by adjusting the volume level step by step. If necessary, this is repeated several times until an acceptable power level is reached. If a very high power level is sustained for too long, the fuzzy logic power controller activates a mute of 20dB.

**Working description of Fuzzy Logic Power Control:**

High power output levels are detected over the 0,1 ohm sensing resistors (R3384/R3385/R3387) in the high voltage supply lines.

High current peaks, especially at low impedances, are also sensed by the base - emitter of transistor 7290 for positive going signals and transistor 7291 for the negative going signals. The collector current of transistor 7290 is a measure of output power and charges C2687. This capacitor is discharged by resistor R3687.

If the charge current is higher than the discharging, pin 1 of the inverter Ic7685 goes high. This forces pin 29 of the µP7650 high.

The µP now has an algorithm to activate the volume motor which turns the volume potmeter down for a certain time. This volume correcting timing, defined in the software algorithm, depends on the voltage of capacitor 2687. During the control process led 6687 flashes at a rate of two times per seconds.

**Testing of the Fuzzy Logic working:**

Connect 8 ohms load resistors to speaker A terminals. Turn up the volume to a power of ±2X60 Watt (±22V). Around this power the Fuzzy Logic control will start to work, you can recognise this when the Fuzzy Logic led starts to blink. It can also be measured on pin 29 of µP 7650,

this goes from normal low to high.

When pin 29 goes high and stays this way, the µP 7650 starts its internal timing cycle.

After 12 minutes, the volume will turn itself back a little.

The total cycle would be, on condition that pin 29 stays high, as following:

- On the 12th minute step down volume
- On the 16th minute step down volume
- On the 20th minute step down volume
- On the 22th minute the mute switches on.

This situation should normally never occur, the reason herefor is, that with the first volume step back (down), the power isn't 2X60W any more, and then pin 29 is low again.

**Reprogramming of TV and Laser Disc source allocation:**

The TV or Laser Disc inputs are allocated to the TV/AUX source. You can change the TV and LD source allocation as follows.

Changing the Laser disc source allocation:

- \* Keep the SOURCE DIRECT key 12 pressed while switching on the power. The TV/AUX indication (or the source to which LD is currently allocated) starts blinking.
- \* Select an other location with the source select knob. The selected source indication lights up on the display.
- \* Store your selection by pressing the RECORDING SELECTOR key 13.
- \* The amplifier returns to normal active mode.

Changing the TV source allocation:

- \* Keep the AUTO SELECT key 14 pressed while switching on the power. The TV/AUX indication (or the source to which TV is currently allocated) starts blinking.
- \* Select an other location with the source select knob. The selected source indication lights up on the display.

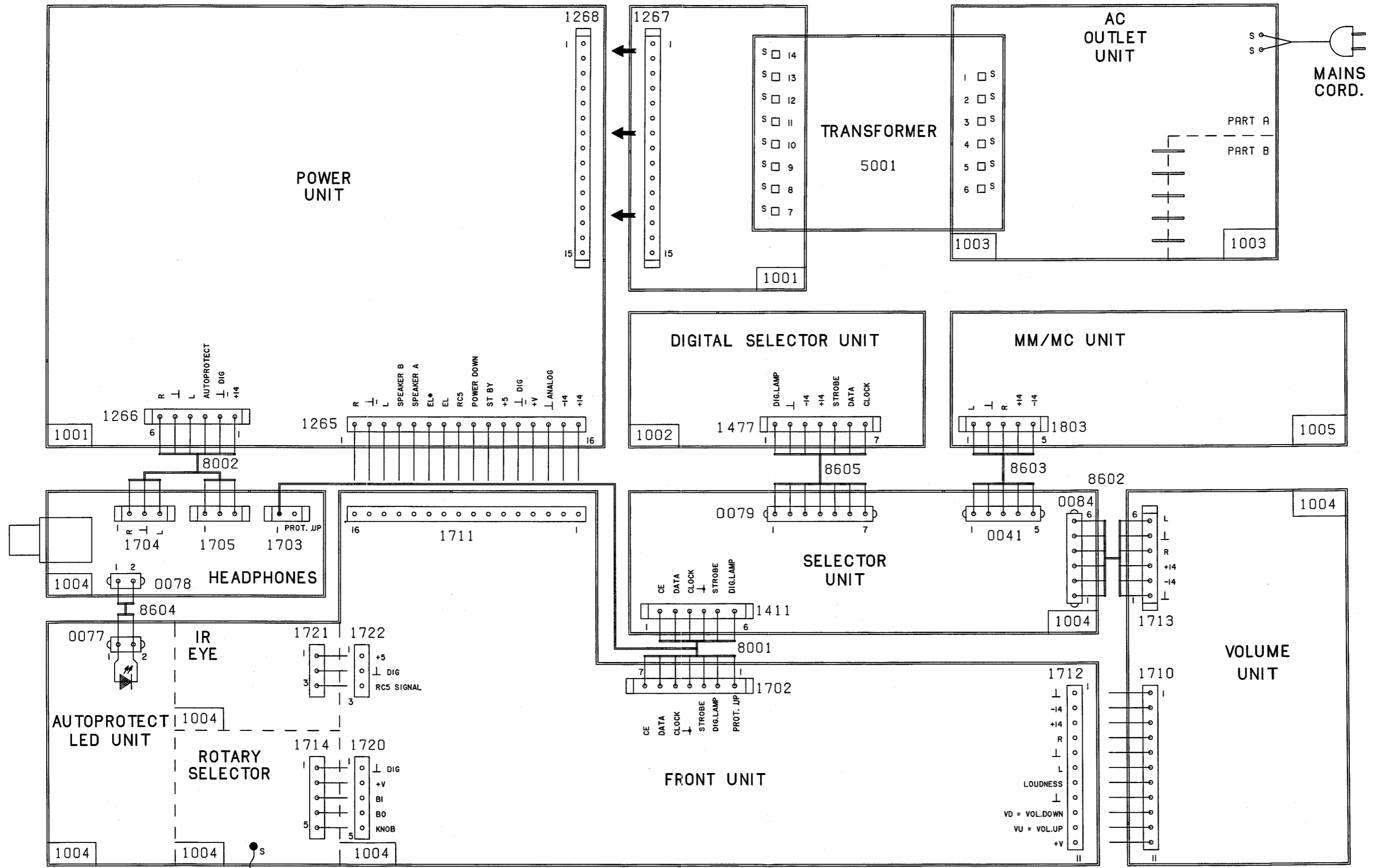
- \* Store your selection by pressing the RECORDING SELECTOR key 13.

- \* The amplifier returns to normal active mode.

**Notes:**

- Any source except PHONO can be allocated to TV or LD.
- When TV and/or LD are allocated to another source, the original source cannot be selected by the remote control.

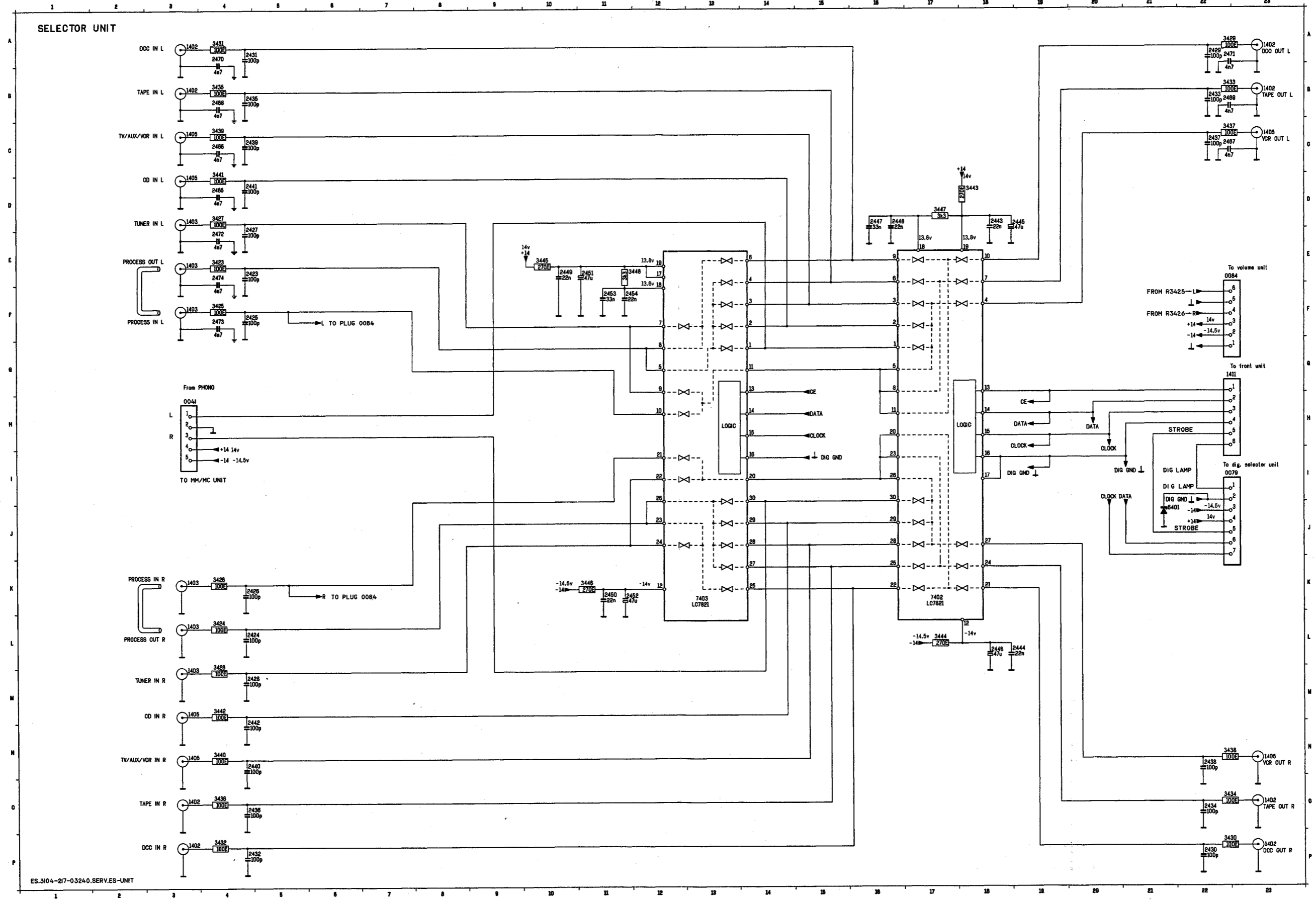
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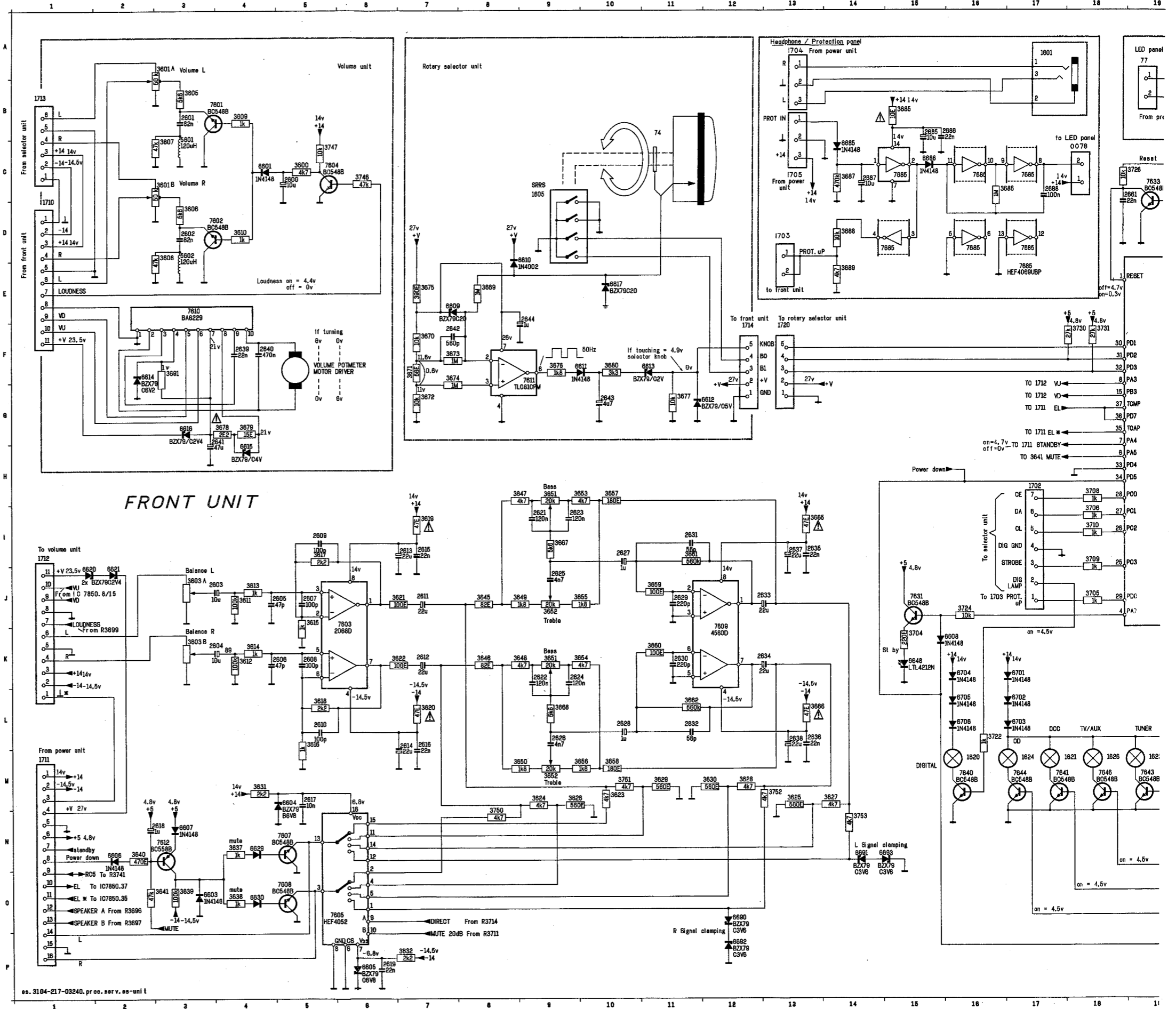
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TO BOTTOM FRAME 8004

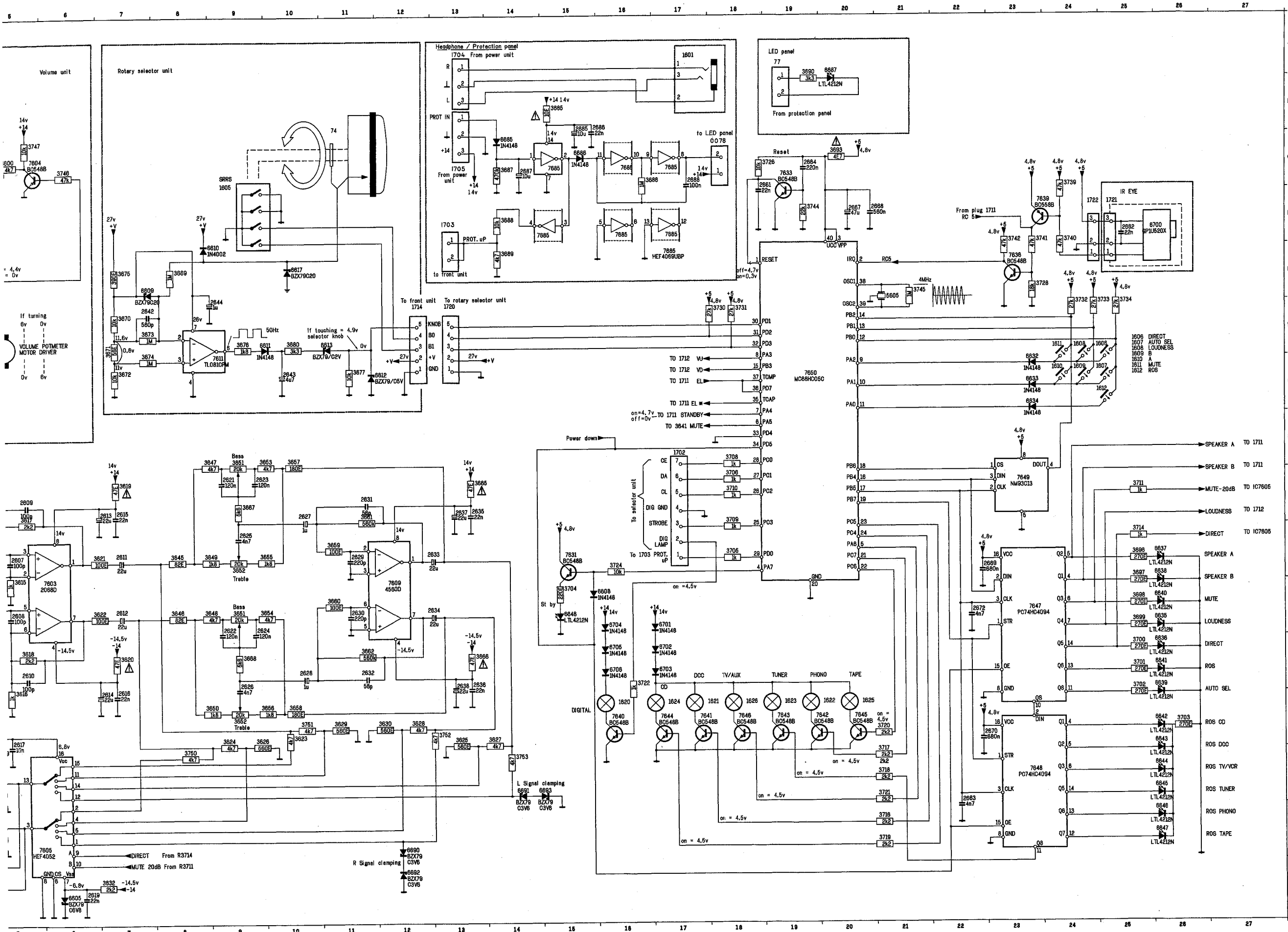
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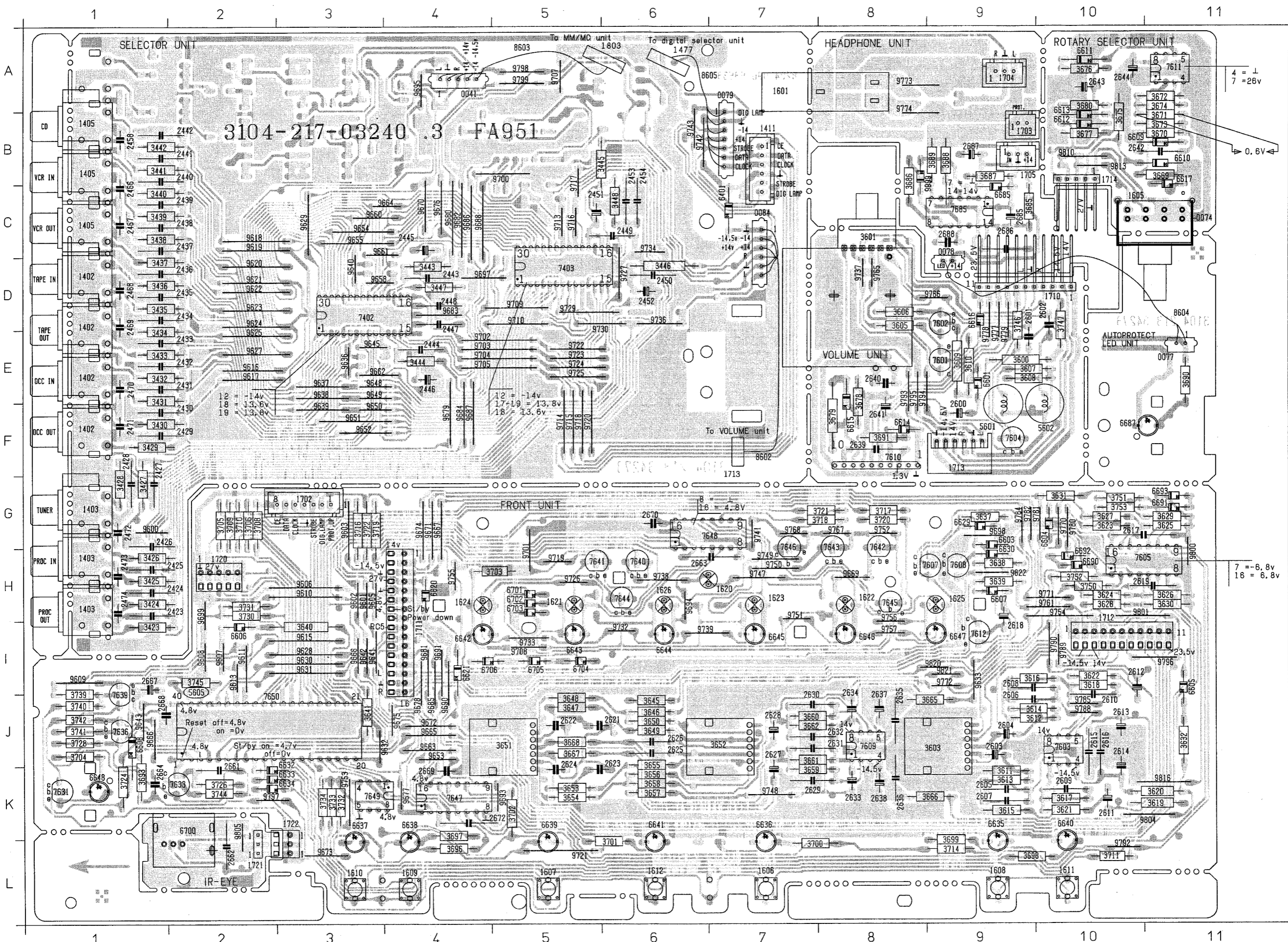
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- 1402 P3
- 1402 P23
- 1403 O3
- 1403 E3
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- 1403 K3
- 1403 L3
- 1403 R3
- 1405 C23
- 1405 C3
- 1405 D3
- 1405 H3
- 1405 R23
- 2423 E4
- 2424 L4
- 2425 F4
- 2426 M4
- 2427 E4
- 2428 N4
- 2429 R22
- 2430 P22
- 2431 R4
- 2432 P4
- 2433 B22
- 2434 O22
- 2435 B4
- 2436 O4
- 2437 C22
- 2438 N22
- 2439 C4
- 2440 M4
- 2441 D4
- 2442 N4
- 2443 D18
- 2444 L18
- 2445 D18
- 2446 L18
- 2447 D16
- 2448 D16
- 2449 E10
- 2450 K11
- 2451 E11
- 2452 K11
- 2453 F11
- 2454 F11
- 2455 D4
- 2456 C4
- 2467 C22
- 2468 D4
- 2469 B22
- 2470 R4
- 2471 R22
- 2472 E4
- 2473 F4
- 2474 E4
- 2475 F4
- 2476 E4
- 2477 L4
- 2478 L4
- 2479 F4
- 2480 K4
- 2481 D4
- 2482 L4
- 2483 R22
- 2484 R22
- 2485 R4
- 2486 B4
- 2487 C22
- 2488 H22
- 2489 C4
- 2490 R4
- 2491 R22
- 2492 R22
- 2493 R22
- 2494 R4
- 2495 D18
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- 2497 E10
- 2498 K11
- 2499 D17
- 2500 E11
- 6401 K21
- 7402 K17
- 7403 K13







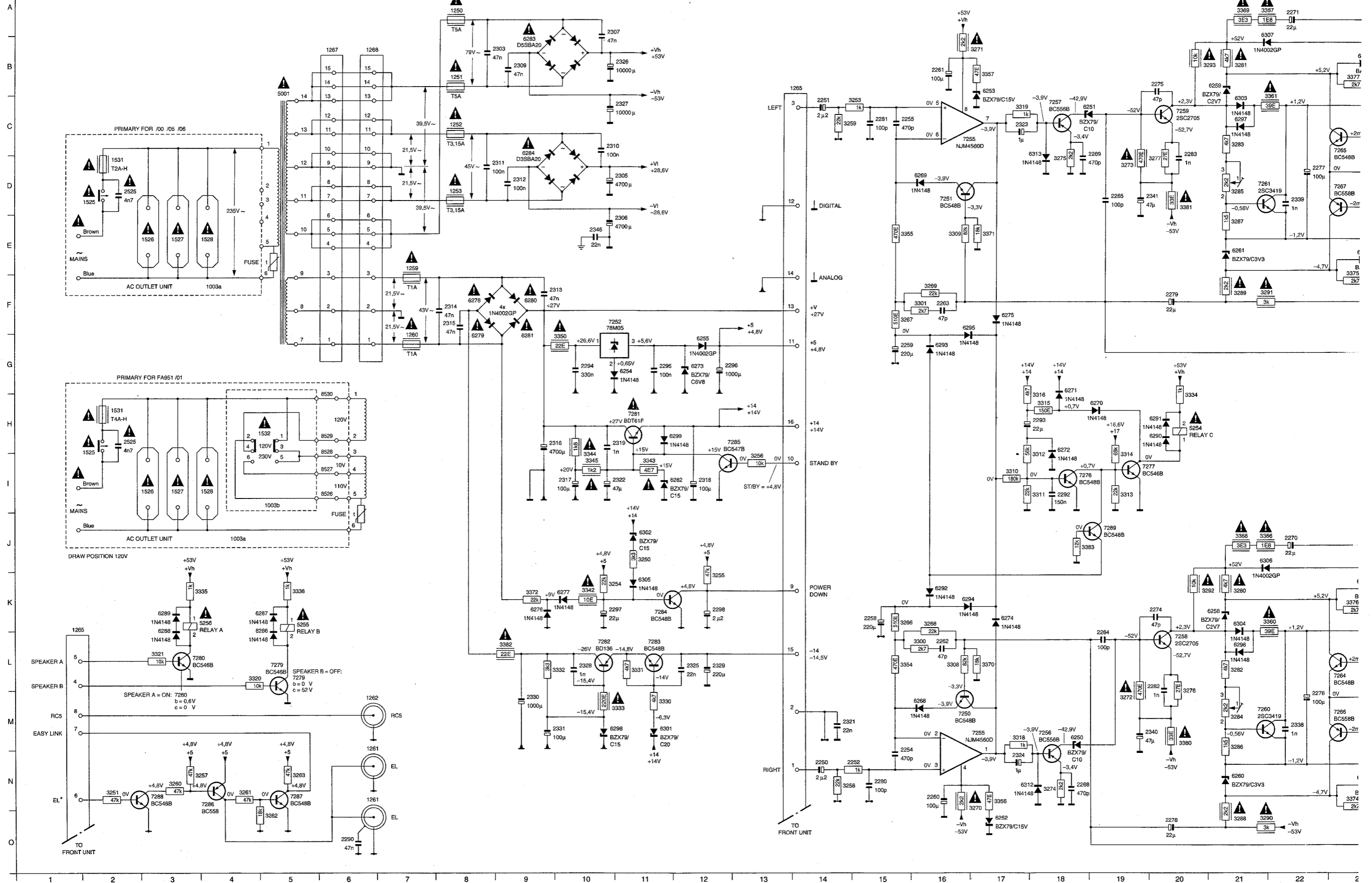
1801 R17	3668 EB	7644 M17
1806 F25	3670 F7	7645 M20
1807 G25	3671 F7	7646 M18
1808 F24	3672 G7	7647 K23
1809 G24	3673 F7	7648 N23
1810 G24	3674 F7	7649 I23
1811 F24	3675 E7	7650 G19
1812 G25	3676 F9	120M G3
1820 M16	3677 G11	120M E3
1821 M18	3678 G4	
1822 H20	3679 G4	
1823 M19	3680 F10	
1824 M17	3685 B15	
1825 H20	3686 C18	
1826 M18	3687 C14	
1702 H17	3688 D14	
1714 F12	3689 E14	
1720 F13	3690 H19	
2506 C5	3691 F3	
2601 B3	3693 C20	
2602 D3	3696 J25	
2603 J4	3697 J25	
2604 K4	3698 K25	
2605 J4	3699 K25	
2606 K4	3700 L25	
2607 J5	3701 L25	
2608 K5	3702 L25	
2609 I5	3703 M26	
2610 L5	3704 M15	
2611 J7	3705 J18	
2612 K7	3706 H18	
2613 I7	3708 M18	
2614 L7	3709 H18	
2615 I7	3710 H18	
2616 L7	3711 L25	
2617 H5	3714 J25	
2618 M2	3716 O21	
2619 P8	3717 N21	
2621 I9	3718 M21	
2622 H9	3719 O21	
2623 I9	3720 M21	
2624 K9	3721 N21	
2625 J9	3722 L16	
2626 L9	3724 J16	
2627 H10	3726 C19	
2628 L10	3728 E23	
2629 J11	3730 F18	
2630 K11	3731 F18	
2631 I11	3732 F24	
2632 L11	3733 F25	
2633 J13	3734 F25	
2634 K13	3739 C24	
2635 I13	3740 D24	
2636 L13	3741 D23	
2637 I13	3742 D23	
2638 L13	3744 D19	
2639 F4	3745 E21	
2640 F4	3746 C5	
2641 G3	3747 C5	
2642 F7	3750 N8	
2643 G10	3751 H10	
2644 E9	3752 H13	
2645 C18	3753 M14	
2646 D25	3754 E21	
2647 C4	3755 C4	
2648 C19	3756 D3	
2649 D20	3757 H4	
2650 P8	3758 P8	
2651 J22	3759 N2	
2652 M22	3760 N3	
2653 K22	3761 K16	
2654 B15	3762 E7	
2655 B15	3763 E9	
2656 B15	3764 F10	
2657 C14	3765 F12	
2658 C17	3766 G12	
2659 C5	3767 J11	
2660 B3	3768 H4	
2661 D3	3769 E10	
2662 J1	3770 J1	
2663 J2	3771 J2	
2664 D4	3772 N4	
2665 J4	3773 D4	
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2794 J4	3902 K23	
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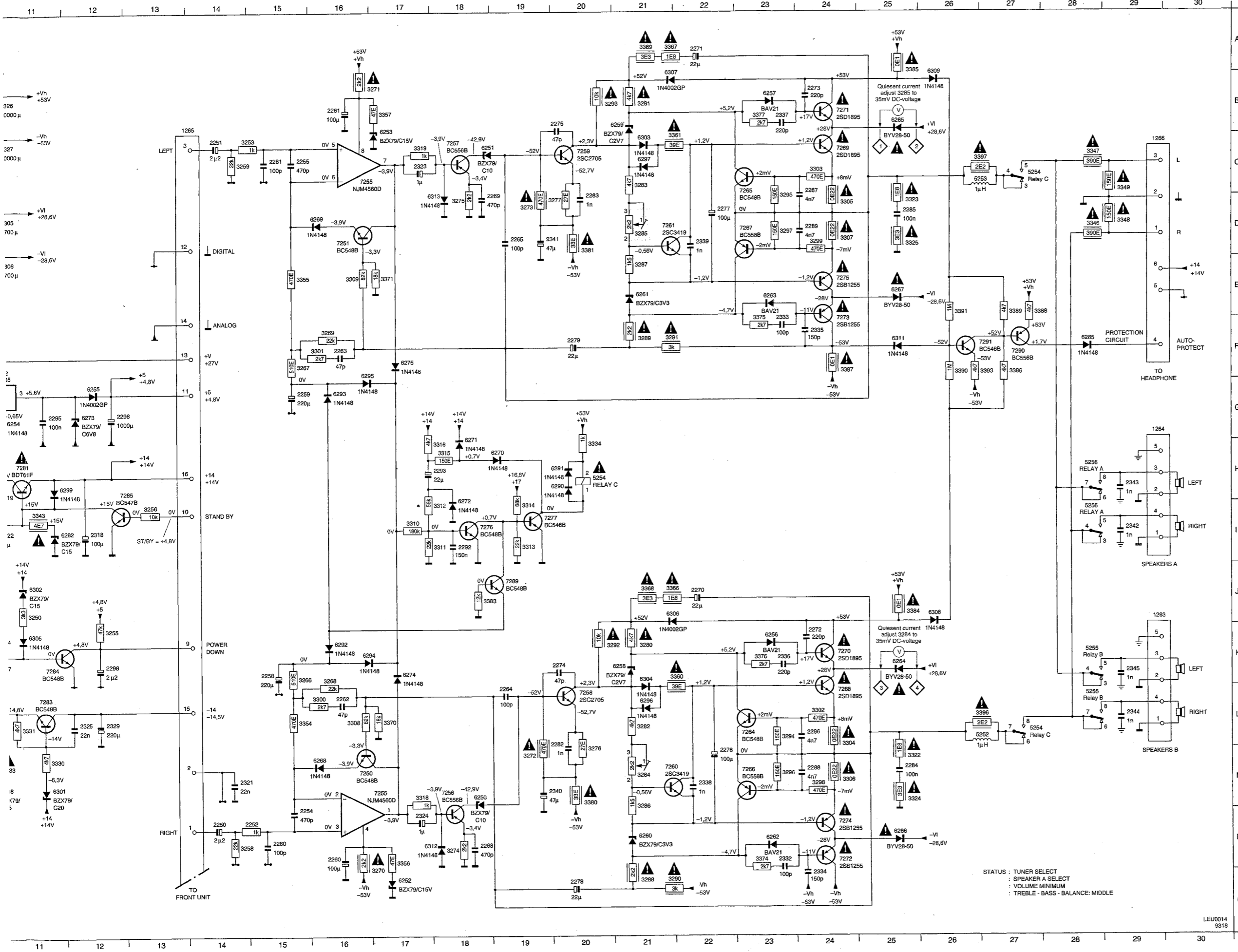


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1606	L7	2644
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1609	L4	2663
1610	L3	2664
1611	L10	2667
1612	L6	2668
1620	H7	2669
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1622	H8	2672
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1624	H4	2686
1625	H9	2687
1626	H6	2688
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1703	B9	3424
1704	A9	342E
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1711	F9	342E
1712	H10	342E
1713	F9	343C
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2425	H2	3433
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2428	F1	344C
2429	F2	3441
2430	F2	344C
2431	F2	344C
2432	F2	344C
2433	F2	344C
2434	D2	344E
2435	D2	344E
2436	D2	344E
2437	C2	360C
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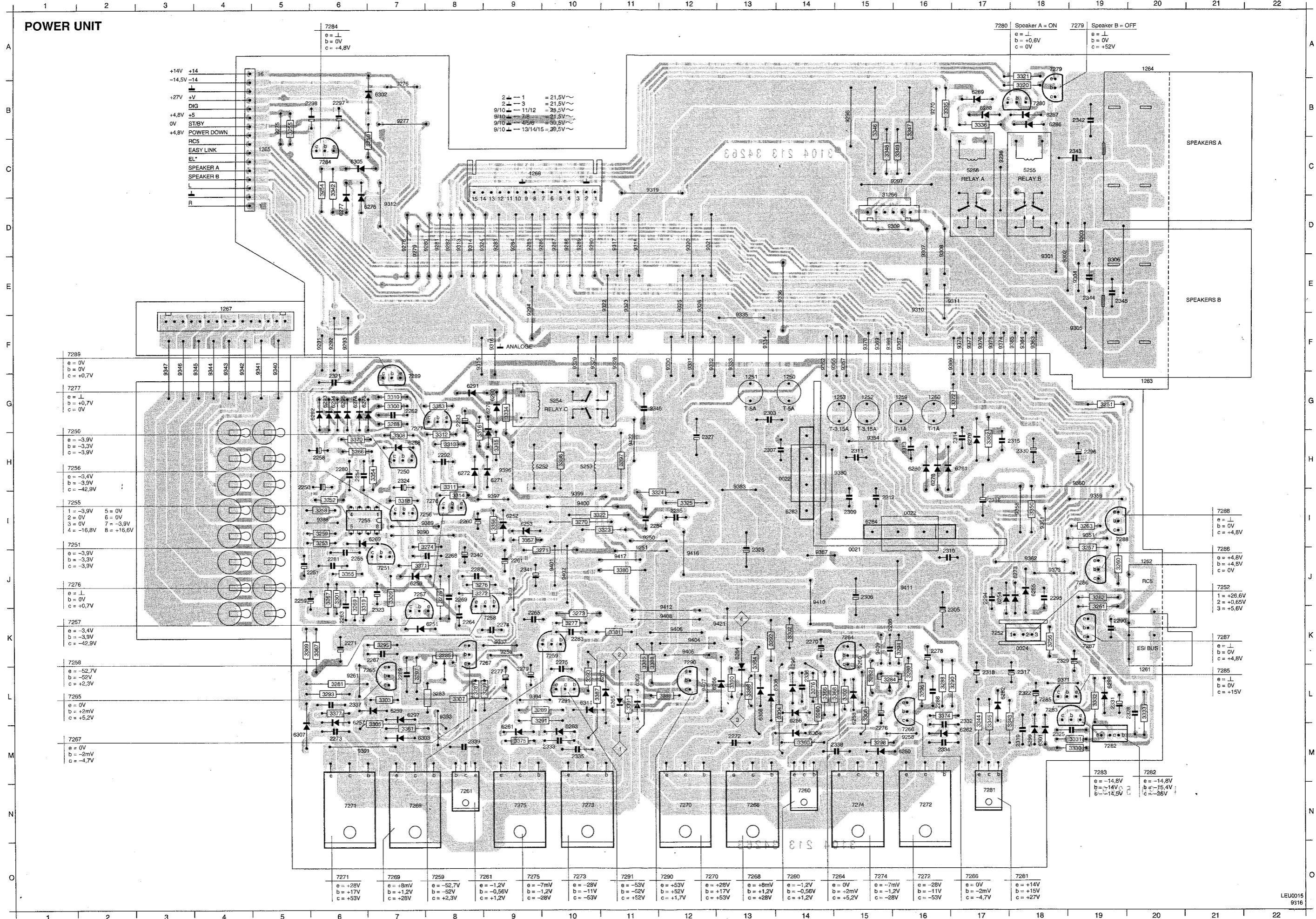


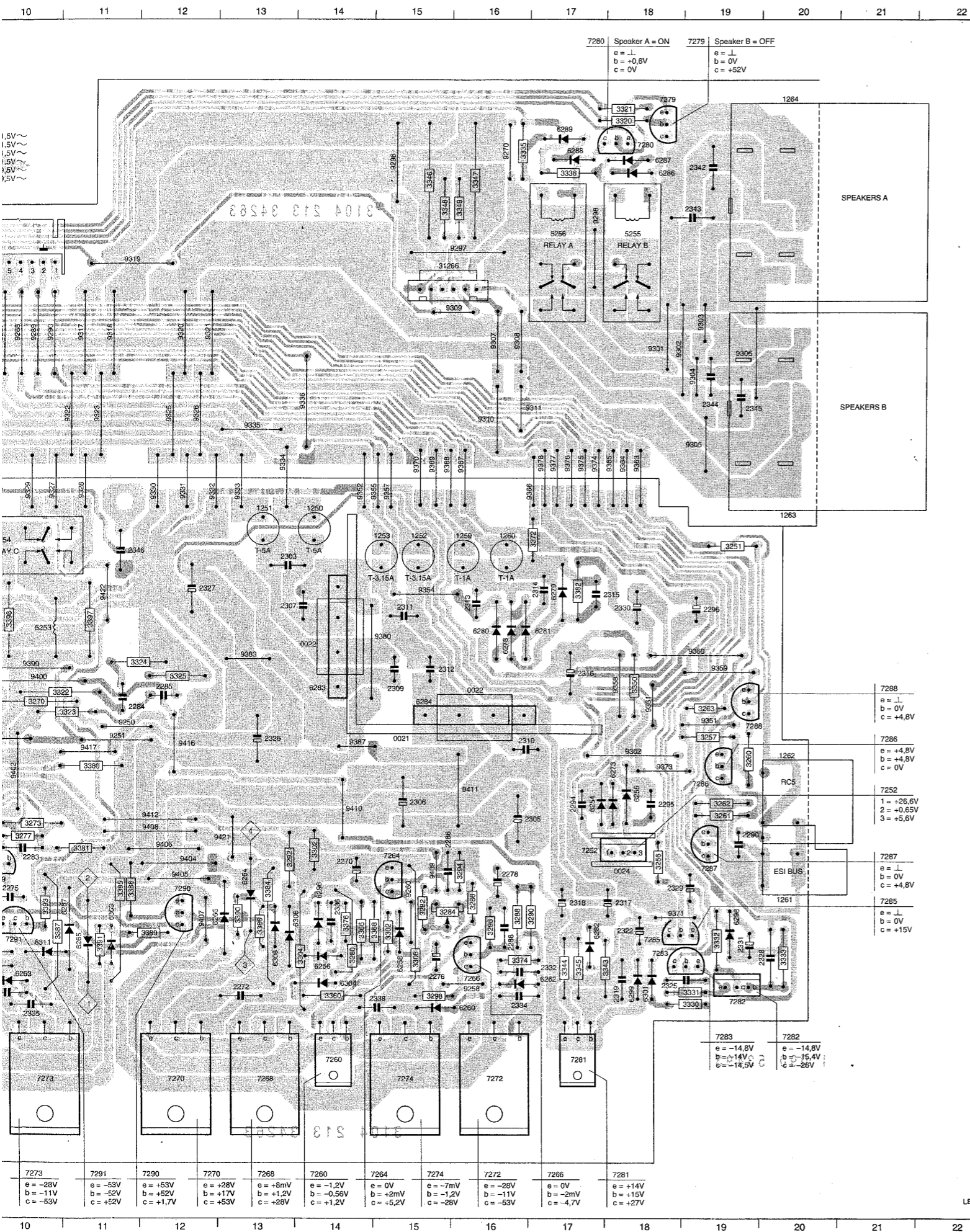


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1261	M6	3267	F15	6255	G12
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1263	J29	3270	N16	6258	K20
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1265	B13	3272	M19	6260	N21
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1266	C29	3274	N18	6262	N23
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1525	I2	3277	D19	6265	B25
1525	I2	3280	K21	6266	H25
1526	I3	3281	B21	6267	E25
1526	E3	3282	L21	6268	M16
1527	I3	3283	C21	6269	D16
1527	E3	3284	M21	6270	H19
1528	I4	3285	D21	6271	G18
1528	E4	3286	M21	6272	H18
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1531	D2	3288	O21	6274	K17
1532	H4	3289	F21	6275	F17
2250	N14	3290	C21	6276	K9
2251	C14	3291	F21	6277	K10
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2254	N15	3293	B20	6279	G8
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2265	D19	3302	L24	6288	L3
2268	N18	3303	C24	6289	K3
2269	D18	3304	L24	6290	H20
2270	J22	3305	D24	6291	H20
2271	A22	3306	M24	6292	K16
2272	K24	3307	D24	6293	G16
2273	B24	3308	L16	6294	K16
2274	K20	3309	E16	6295	F16
2275	B20	3310	I17	6296	L21
2276	M22	3311	H18	6297	C21
2277	D22	3312	H18	6298	M10
2278	C20	3313	I19	6299	H11
2279	F20	3314	I19	6301	M11
2280	N15	3315	H18	6302	J11
2281	C15	3316	H18	6303	C21
2282	L19	3318	M17	6304	K21
2283	D20	3319	C17	6305	K11
2284	M25	3320	L4	6306	J21
2285	D25	3321	L3	6307	B21
2286	L24	3322	M25	6308	J26
2287	C24	3323	C25	6309	B26
2288	M24	3324	M25	6311	F25
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2290	O6	3330	M11	6313	D17
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2293	H18	3332	L9	7251	D16
2294	G10	3333	M10	7252	F10
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2296	G12	3335	K3	7255	M17
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2307	A10	3346	D28	7261	D21
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2312	D9	3350	G9	7267	D23
2313	F9	3354	L15	7268	L24
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2315	F8	3356	N17	7270	K24
2316	H9	3357	B17	7271	B24
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2318	I12	3361	C21	7273	F24
2319	H10	3366	J21	7274	N24
2321	M14	3367	A21	7275	E24
2322	I10	3368	J21	7276	I18
2323	C17	3369	A17	7277	I19
2324	N17	3370	L17	7279	L5
2325	L12	3371	E17	7280	L3
2326	E11	3372	K9	7281	H11
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2328	L10	3375	F23	7283	L11
2329	L12	3376	K23	7284	K11
2330	M9	3377	B23	7285	H12
2331	M9	3380	M20	7286	N4
2332	N23	3381	D20	7287	N5
2333	F23	3382	L9	7288	N3
2334	O24	3383	J18	7289	J19
2335	F24	3384	J25	7290	F27
2336	K23	3385	A25	7291	F27
2337	B23	3386	F27	8526	I6
2338	M22	3387	F24	8527	I6
2339	D22	3388	E27	8528	I6
2340	M19	3389	E27	8529	H6
2341	D19	3390	F26	8530	H6
2342	I29	3391	E26		
2343	H29	3393	F27		
2344	L29	3396	L26		
2345	K29	3397	C26		
2346	E10	5001	B5		
2525	H2	5258	L26		
2525	D2	5253	C26		
3250	J11	5254	H20		
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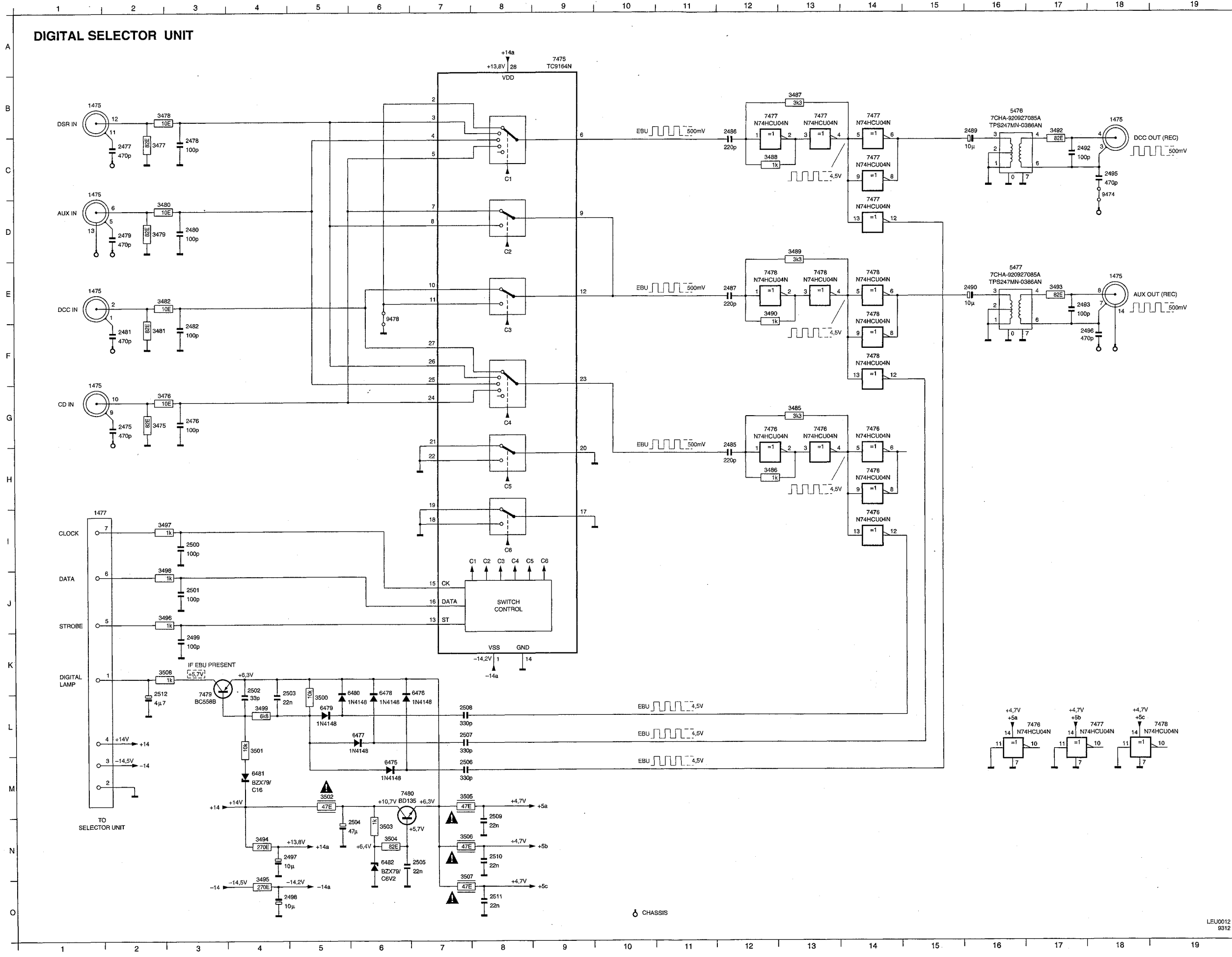




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1268	O9	3293	L6	6288	B17	9335	F13
2250	H5	3294	K16	6289	B17	9336	E14
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2255	J6	3297	L7	6292	G6	9341	G5
2256	H6	3298	M15	6293	G6	9342	G4
2259	J5	3299	L9	6294	G6	9343	G4
2260	I8	3300	G7	6295	G6	9344	G4
2261	J9	3301	J6	6296	L14	9345	G4
2262	G7	3302	K14	6297	L7	9346	G3
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2268	J8	3305	M7	6302	B7	9354	H15
2269	J8	3306	L15	6303	M7	9355	F15
2270	K14	3307	L8	6304	M14	9357	F15
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2272	M13	3309	J7	6306	L14	9359	I18
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2275	K10	3312	H8	6309	L11	9362	J18
2276	M15	3313	H8	6311	L10	9363	F18
2277	L9	3314	I8	7250	H7	9364	F18
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2287	K7	3325	I12	7264	K15	9375	F17
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2319	M18	3368	L15	7290	K12	9409	K15
2321	G6	3369	K5	7291	L10	9410	J14
2322	L18	3370	H6	9250	I11	9411	J16
2323	K7	3371	J7	9251	J11	9412	K12
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2325	M18	3374	L16	9259	K9	9417	J11
2326	J19	3375	M9	9260	L15	9421	K12
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2328	L20	3377	L6	9270	B16	31266	D15
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3269	K6	6265	L11	9313	D8		
3270	H10	6266	L13	9314	D8		
3271	J9	6267	L11	9315	F8		
3272	J8	6268	H7	9316	F8		
3273	K10	6269	I7	9317	D11		
3274	J7	6270	G9	9318	D11		

LEU0015 9316

### DIGITAL SELECTOR UNIT



1475	E18	1801	F1	18C
1475	B18	1801	B1	28C
1475	G1	1802	G6	28C
1475	E1	1802	C6	28C
1475	C1	1802	F3	28C
1475	B1	1802	C3	28C
1477	I1			
2475	G2			
2476	G3			
2477	C2			
2478	C3			
2478	D2			
2480	D3			
2481	F2			
2482	F3			
2485	H12			
2486	B12			
2487	E12			
2488	B16			
2489	E16			
2492	C17			
2493	E17			
2495	C18			
2496	F18			
2497	N4			
2498	C4			
2499	K3			
2500	I3			
2501	J3			
2502	K4			
2503	L4			
2504	N5			
2505	N7			
2506	M7			
2507	L7			
2508	L7			
2509	N8			
2510	N8			
2511	O8			
2512	L2			
3475	G2			
3476	G2			
3477	C2			
3478	B2			
3479	D2			
3480	D2			
3481	F2			
3482	E2			
3485	G13			
3488	H12			
3487	B13			
3488	C12			
3489	D13			
3490	E12			
3492	B17			
3493	E17			
3494	N4			
3495	C4			
3496	J2			
3497	I2			
3498	J2			
3499	L4			
3500	L5			
3501	L4			
3502	M5			
3503	N6			
3504	N6			
3505	M7			
3506	N7			
3507	N7			
3508	K2			
5476	B16			
5477	E16			
6475	M6			
6476	L7			
6477	L6			
6478	L6			
6479	L5			
6480	L5			
6481	M4			
6482	N6			
7475	A9			
7476	G12			
7476	G13			
7476	I14			
7476	H14			
7476	G14			
7477	B12			
7477	B13			
7477	D14			
7477	C14			
7477	B14			
7478	E12			
7478	E13			
7478	F14			
7478	E14			
7478	L19			
7479	L3			
7480	M6			
9474	D18			
9478	E6			

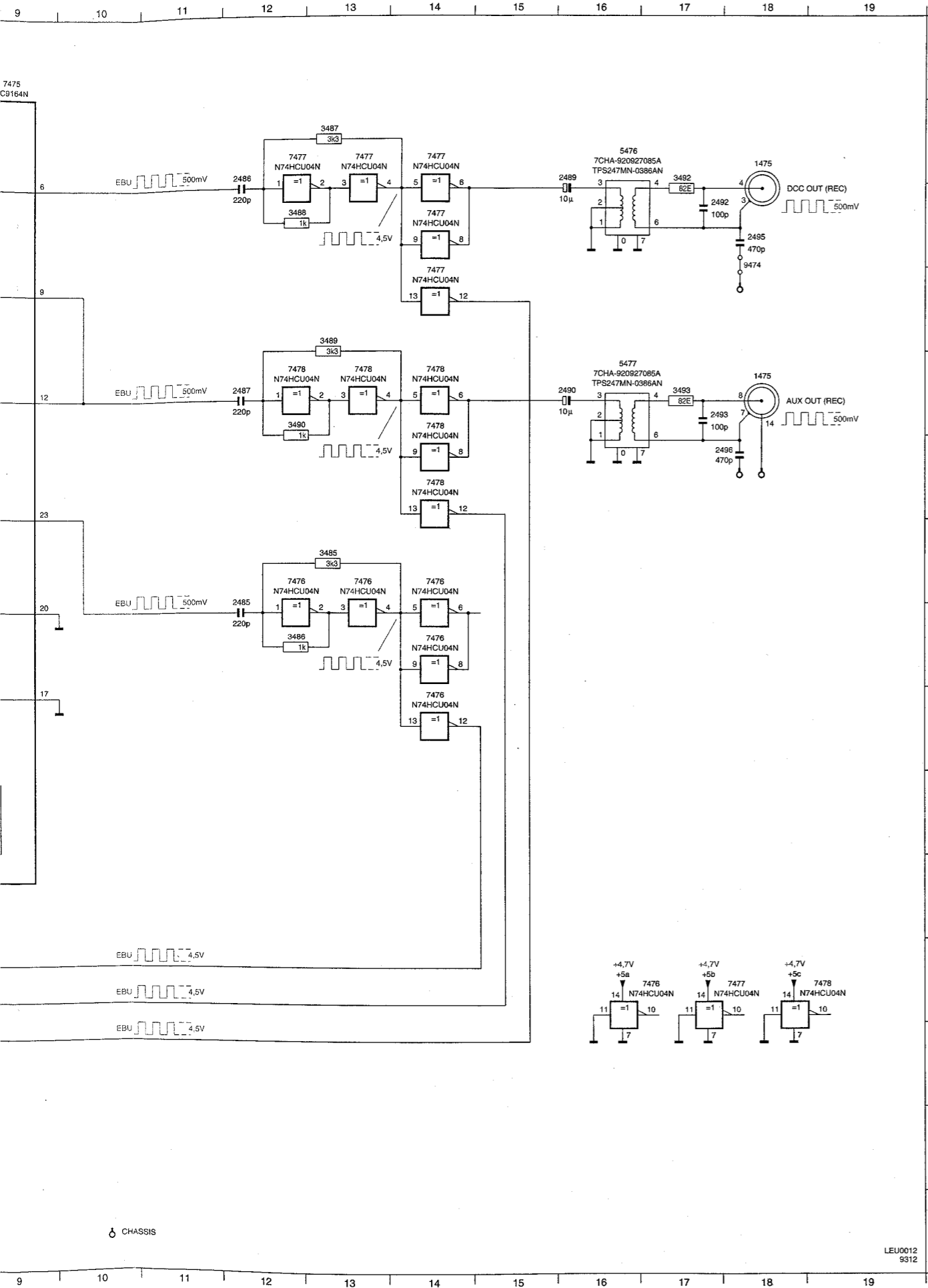
1801	F1	18C
1801	B1	28C
1802	G6	28C
1802	C6	28C
1802	F3	28C
1802	C3	28C



1801	C9	28C
1802	B10	28C
1803	B1	28C
2801	C8	28C
2802	A9	281
2803	C6	281



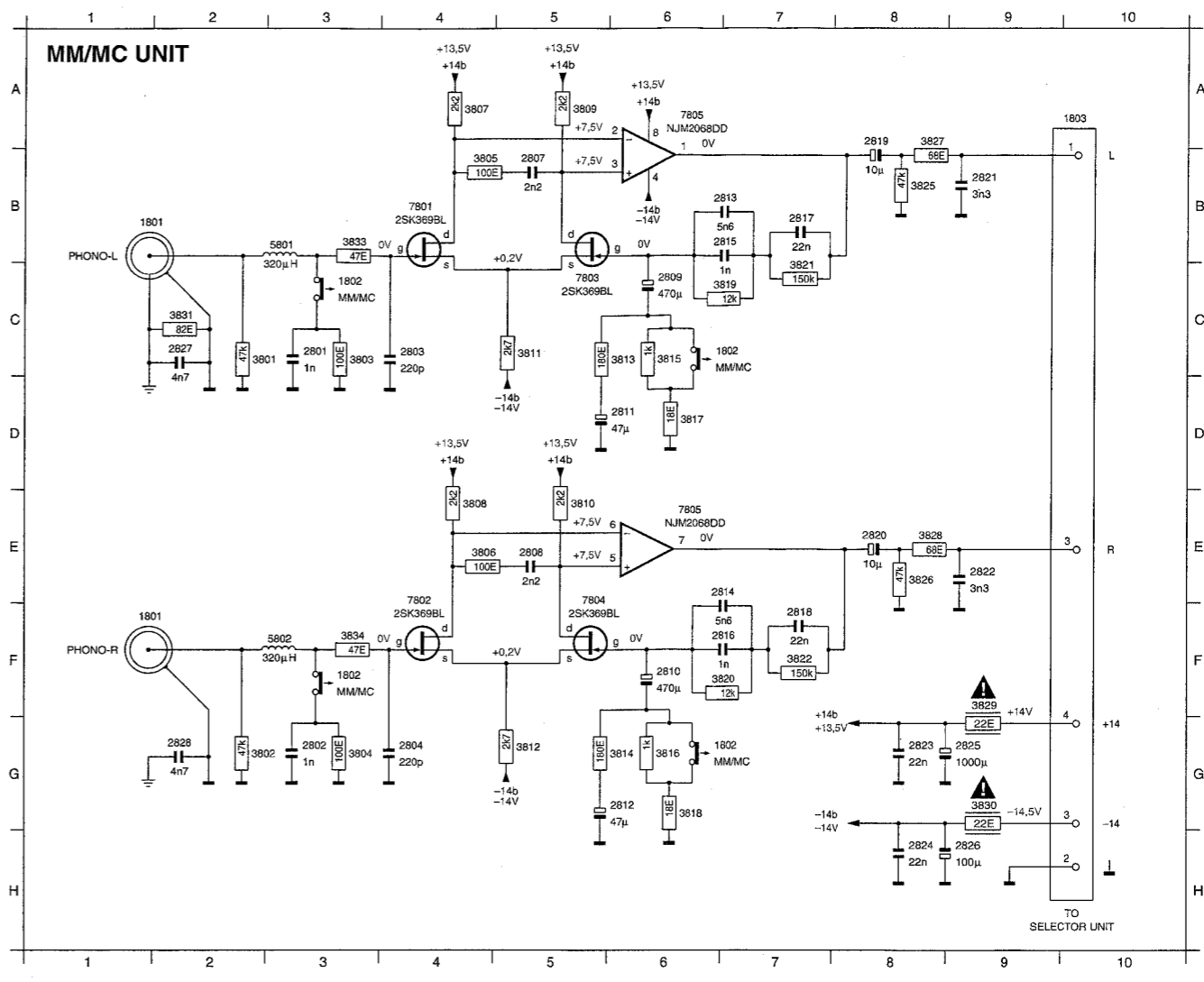




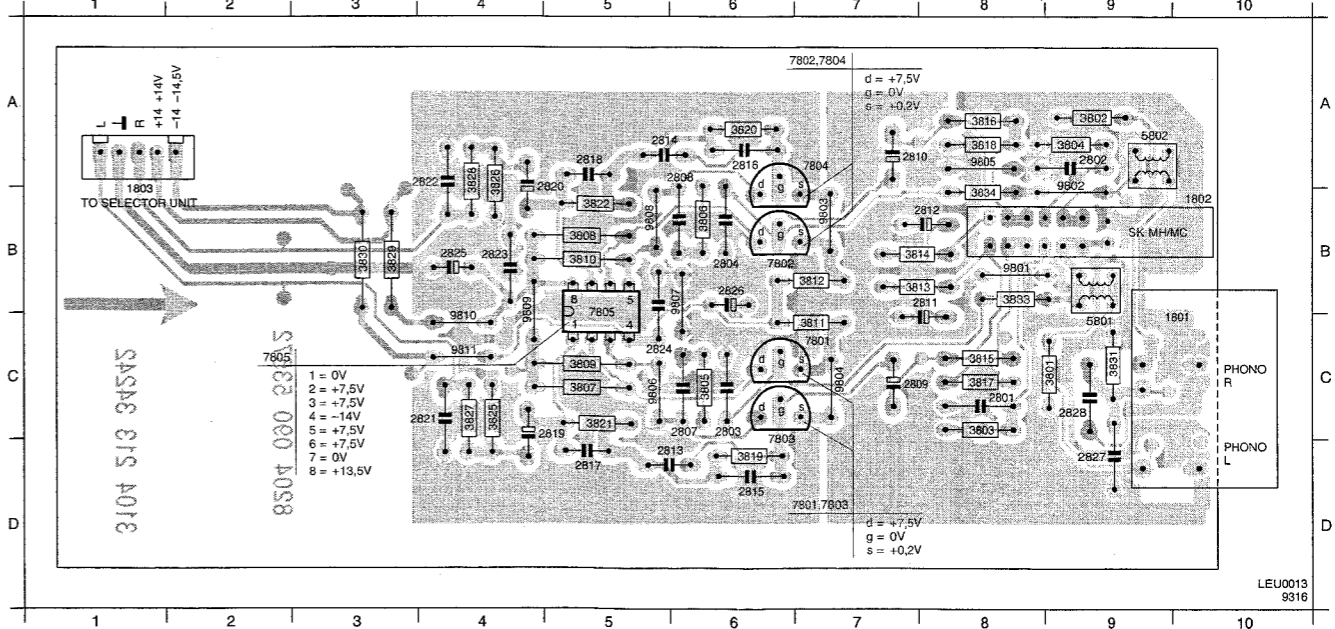
- 1475 E18
- 1475 G1
- 1475 E1
- 1475 C1
- 1475 B1
- 1477 I1
- 2475 G2
- 2476 G3
- 2477 C2
- 2478 C3
- 2479 D2
- 2480 D3
- 2481 F2
- 2482 F3
- 2485 H12
- 2486 B12
- 2487 C12
- 2488 B16
- 2490 E16
- 2492 C17
- 2493 E17
- 2495 C18
- 2496 F18
- 2497 N4
- 2498 O4
- 2499 K3
- 2500 I3
- 2501 J3
- 2502 K4
- 2503 L4
- 2504 N5
- 2505 N7
- 2506 M7
- 2507 L7
- 2508 L7
- 2509 N8
- 2510 N8
- 2511 O8
- 2512 L2
- 3475 G2
- 3476 G2
- 3477 C2
- 3478 B2
- 3479 D2
- 3480 D2
- 3481 F2
- 3482 E2
- 3485 G13
- 3486 H12
- 3487 B13
- 3488 C12
- 3489 D13
- 3490 E12
- 3492 B17
- 3493 E17
- 3494 N4
- 3495 O4
- 3496 J2
- 3497 I2
- 3498 J2
- 3499 L4
- 3500 L5
- 3501 L4
- 3502 M5
- 3503 N6
- 3504 N6
- 3505 M7
- 3506 N7
- 3507 N7
- 3508 K2
- 5476 B16
- 5477 E16
- 6475 M6
- 6476 L7
- 6477 L6
- 6478 L6
- 6479 L5
- 6480 L5
- 6481 M4
- 6482 N6
- 7475 A9
- 7476 G12
- 7477 G13
- 7478 I14
- 7479 H14
- 7476 G14
- 7476 L17
- 7477 B12
- 7477 B13
- 7477 D14
- 7477 C14
- 7477 B14
- 7477 L18
- 7478 E12
- 7478 E13
- 7478 F14
- 7478 E14
- 7478 E14
- 7478 L19
- 7479 L3
- 7480 M6
- 9474 D18
- 9478 E6

LEU0012 9312

1801 F1	1803 A10	2808 E5	2814 E6	2820 E8	2826 H9	3804 G3	3810 E5	3818 G6	3822 F7	3830 G9	7801 B4
1801 B1	2801 C3	2809 C6	2815 B6	2821 B9	2827 C2	3805 B4	3811 C5	3817 D6	3825 B8	3831 C2	7802 F4
1802 G6	2802 G3	2810 F6	2816 F6	2822 E9	2828 G2	3806 E4	3812 G5	3819 G6	3826 E8	3833 B3	7803 C5
1802 C8	2803 C4	2811 D6	2817 B7	2823 G8	3801 C2	3807 A4	3813 C6	3819 C6	3827 A8	3834 F3	7804 F5
1802 F3	2804 G4	2812 G6	2816 F7	2824 H8	3802 G2	3808 E4	3814 G6	3820 F6	3828 E8	5801 B3	7805 E6
1802 C3	2807 B5	2813 B6	2819 A8	2825 G9	3803 C3	3809 A5	3815 C6	3821 C7	3829 F9	5802 F3	7805 A6



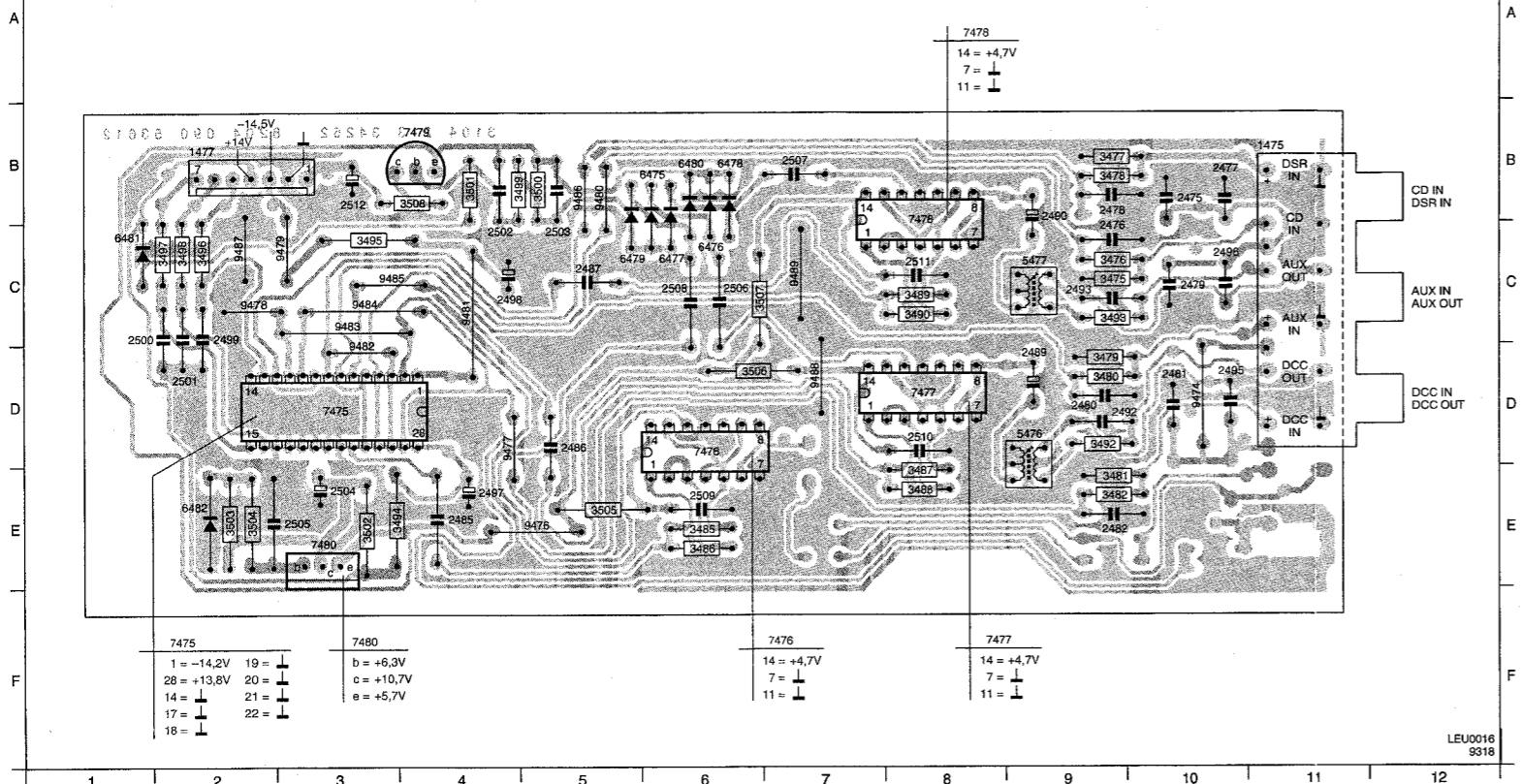
1801 C9	2804 B6	2812 B7	2818 A5	2824 C5	3802 A9	3808 B5	3814 B7	3820 A6	3828 B4	5801 C9	7805 C5	9806 C5
1802 B10	2807 C6	2813 D5	2819 C4	2825 B4	3803 C8	3809 C5	3815 C8	3821 C5	3829 B3	5802 A9	9801 B8	9807 C6
1803 B1	2808 A5	2814 A5	2820 B4	2826 B6	3804 A9	3810 B5	3816 A8	3822 B5	3830 B3	7801 C7	9802 B9	9808 B5
2801 C8	2809 C7	2815 D6	2821 C3	2827 D9	3805 C6	3811 C7	3817 C8	3825 C4	3831 C9	7802 B6	9803 B7	9809 C4
2802 A9	2810 A7	2816 A6	2822 A3	2828 C9	3806 B6	3812 B7	3818 A8	3826 B4	3833 B8	7803 D6	9804 C7	9810 C4
2803 C6	2811 B7	2817 D5	2823 B4	3801 C9	3807 C5	3813 B7	3819 D6	3827 C4	3834 B8	7804 A7	9805 A8	9811 C4



LEU0013 9318

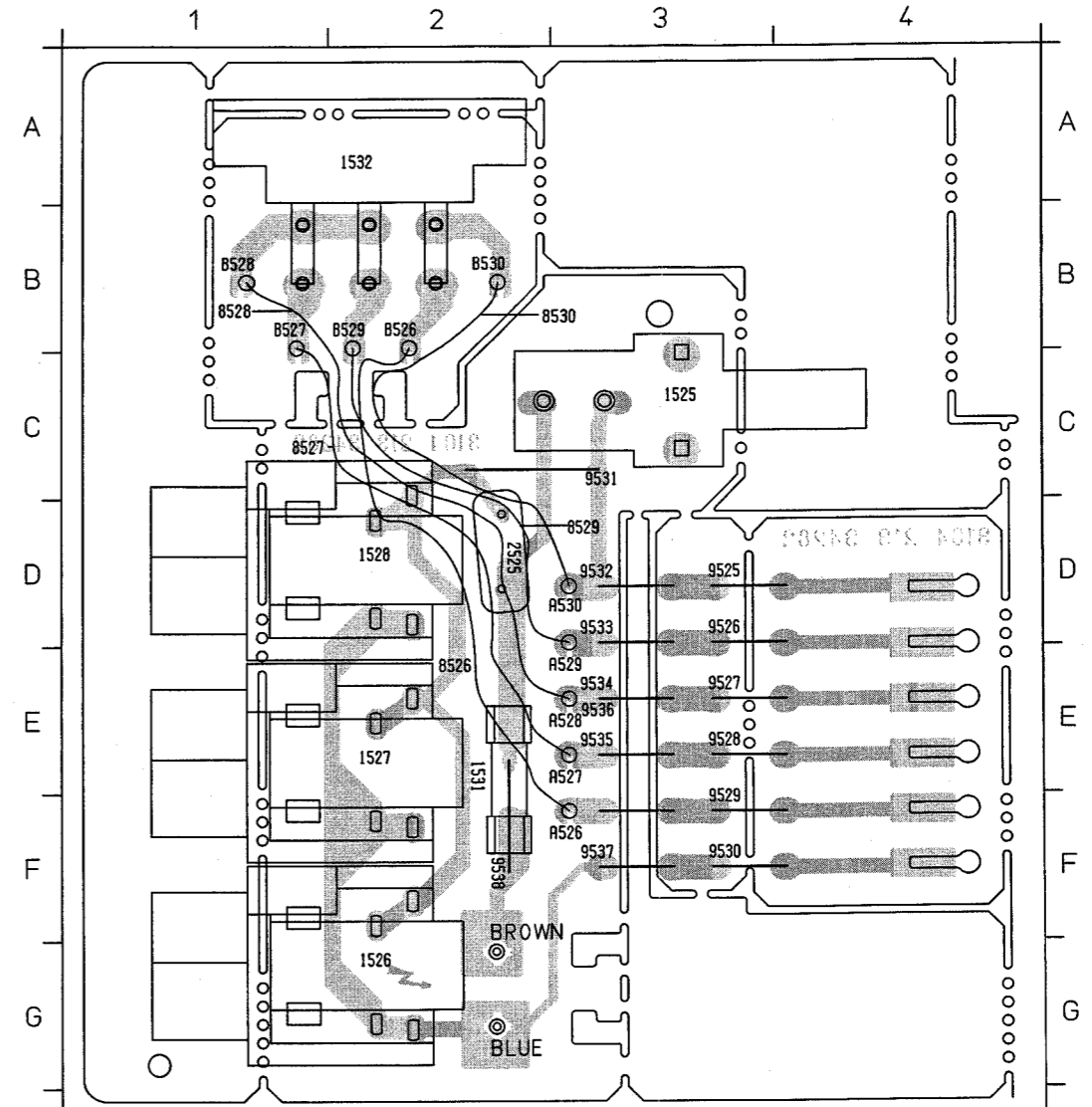
1475	B11	2479	C10	2487	C5	2496	C10	2502	C4	2508	C6	3476	C9	3482	E9	3490	C8	3497	C2	3503	E2	5476	D9	6479	C5	7477	D8	9477	D4	9483	C3	9489	C7
1477	B2	2480	D9	2489	D9	2497	E4	2503	C5	2509	E6	3477	B9	3485	E6	3492	D9	3498	C2	3504	E2	5477	C9	6480	B6	7478	C8	9478	C2	9484	C3		
2475	B10	2481	D10	2490	B9	2498	C4	2504	E3	2510	D8	3478	B9	3486	E6	3493	C9	3499	B5	3505	E5	6475	B5	6481	C1	7479	B4	9479	C3	9485	C3		
2476	C9	2482	E9	2492	D9	2499	C2	2505	E3	2511	C8	3479	D9	3487	E8	3494	E4	3500	B5	3506	D6	6476	C6	6482	E2	7480	E3	9480	B5	9486	B5		
2477	B10	2485	E4	2493	C9	2500	C1	2506	C6	2512	B3	3480	D9	3488	E8	3495	C3	3501	B4	3507	C7	6477	C6	7475	D3	9474	D10	9481	C4	9487	C2		
2478	B9	2486	D5	2495	D10	2501	D2	2507	B7	3475	C9	3481	E9	3489	C8	3496	C2	3502	E3	3508	B4	6478	B6	7476	D6	9478	E5	9482	D3	9488	D7		

**DIGITAL SELECTOR UNIT**



**AC OUTLET**

1525	C3	2525	D2	8528	I1	9526	D3	9532	D3	9538	F2	8528	B2
1526	G2	8526	E2	8529	D3	9527	E3	9533	D3	A526	F3	8527	B1
1527	E2	8526	I1	8529	I1	9528	E3	9534	E3	A527	E3	8528	B1
1528	D2	8527	C1	8530	B3	9529	F3	9535	E3	A528	E3	8529	B2
1531	E2	8527	I1	8530	I1	9530	F3	9536	E3	A529	E3	8530	B2
1532	A2	8528	B1	9525	D3	9531	C3	9537	F3	A530	D3		

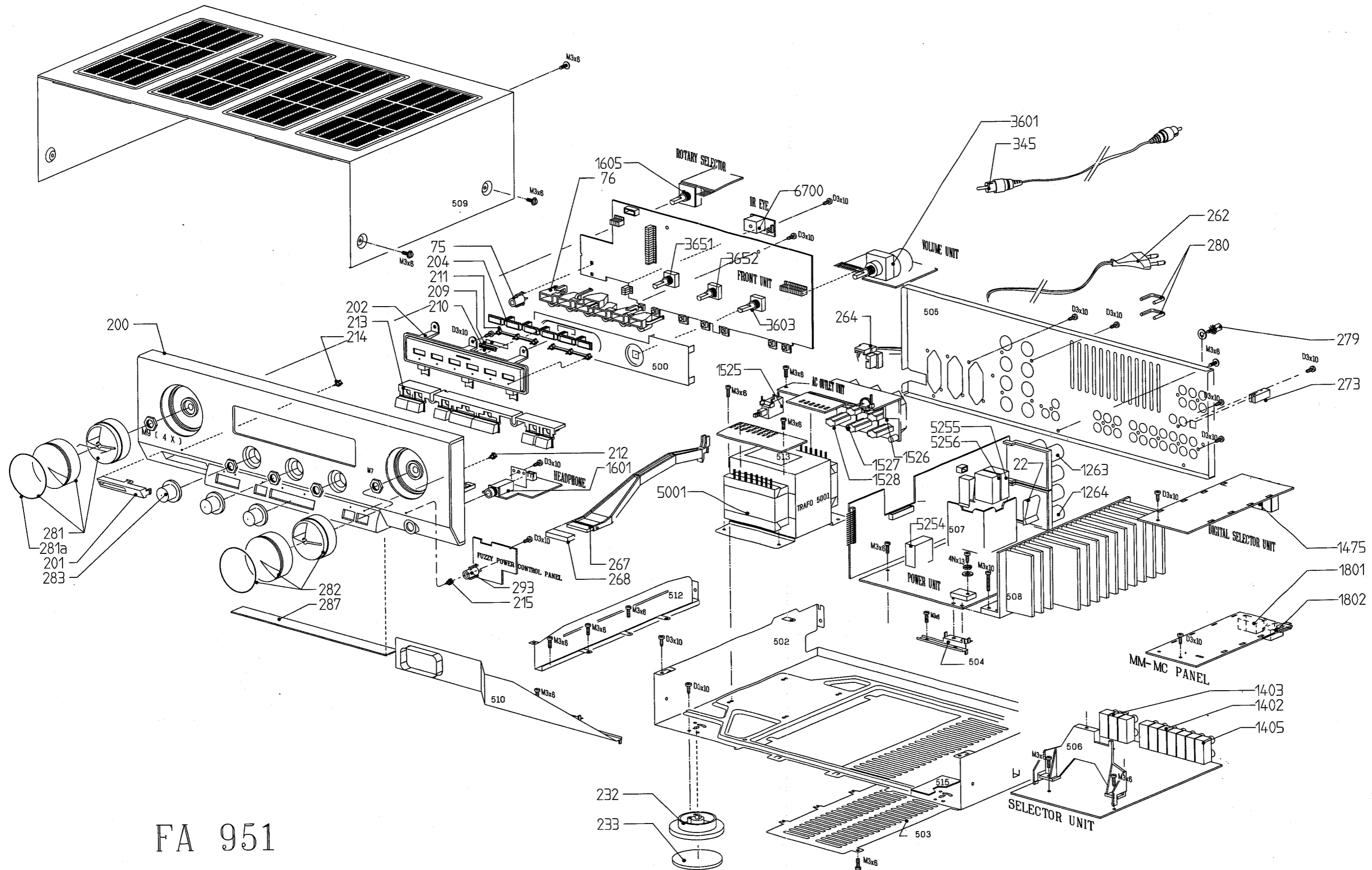


**ONLY FOR /01 :**  
 1532 : VOLTAGE SELECTOR  
 8526 }  
 8527 }  
 8528 }  
 8529 }  
 8530 }  
 DOUBLE INSULATED WIRE

**ATTENTION :** Mainscord to be soldered at the corresponding eyelets : brown wire = live  
 blue wire = neutral

**/00 :**  
 REMOVE 9538  
 ADD 1531

3104 217 03230 FA951 /00 PUNT 2  
 3104 217 03540 FA951 /01



FA 951

## MECHANICAL PARTS

	4822 218 10514	REMOTE RH6641	293	4822 255 41247	LEDHOLDER
	4822 736 21794	IFU FA951	345	4822 321 61478	CABLE
22	4822 492 70583	CLAMPING SPRING	1263	4822 290 81479	L.S. CONNECTOR
75	4822 255 41247	LEDHOLDER	1264	4822 290 81479	L.S. CONNECTOR
76	4822 466 70733	LIGHT SCREEN	1402	4822 267 31451	PIN JACK
200	4822 426 51666	FRONT ASSY	1403	4822 267 31449	PIN JACK
201	4822 450 61831	IR-WINDOW	1405	4822 267 31449	PIN JACK
202	4822 454 12791	PLATE ORNAMENTAL	1475	4822 267 20453	PIN JACK
204	4822 450 61832	WINDOW	1525	4822 276 13224	POWER SWITCH
209	4822 466 70734	DIFFUSOR	1526	4822 265 20594	MAINS OUTLET
210	4822 130 91065	DIG.REFLECTOR	1527	4822 265 20594	MAINS OUTLET
211	4822 380 20424	REFLECTOR	1528	4822 265 20594	MAINS OUTLET
212	4822 380 20425	LED REFLECTOR	1601	4822 267 31453	SOCKET
213	4822 410 61698	BUTTON ASSY	1605	4822 273 10237	ROTARY SWITCH
214	4822 380 20425	LED REFLECTOR	1801	4822 267 20452	PIN JACK
215	4822 380 20425	LED REFLECTOR	1802	4822 276 13412	MM-MC SWITCH
232	4822 462 41888	FOOT	3601	4822 101 21175	50k POTM
233	4822 462 41887	FOOT VELT	3603	4822 101 21176	100k POTM
262	4822 321 10853	MAINS CORD	3651	4822 101 21177	20k POTM
264	4822 532 60948	BUSHING	3652	4822 101 21177	20k POTM
267	4822 404 21194	BRACKET	5001	4822 146 31237	MAINS TRAF0
268	4822 462 71808	CAP POWER BRACKET	5001	4822 146 31265	MAINS TRAF0 only/01S
273	4822 413 31586	PHONO SEL.BUTTON	5254	4822 280 60567	RELAY
279	4822 502 13921	PHONO GND SCREW	5255	4822 280 60567	RELAY
280	4822 268 90449	JUMPER PLUG	5256	4822 280 60567	RELAY
281	4822 410 61699	KNOB SOURCE SEL.	6700	4822 214 52009	IR EYE
281A	4822 532 21449	RUBBER RING			
282	4822 413 51399	VOLUME KNOB ASSY			
283	4822 413 41696	KNOB ASSY			
287	4822 426 60621	STRIP			

POWER UNIT		
<b>MISCELLANEOUS</b>		
1250	4822 071 55002▲	Fuse 5A
1251	4822 071 55002▲	Fuse 5A
1252	4822 071 53152▲	Fuse 3.15A
1253	4822 071 53152▲	Fuse 3.15A
1259	4822 071 51002▲	Fuse 1A
1260	4822 071 51002▲	Fuse 1A
1261	4822 265 20542	Pin jack
1262	4822 265 20543	Pin jack
1263	4822 290 81479	L.S. Connector
1264	4822 290 81479	L.S. Connector
1265	4822 265 41325	Connector 16P
1267	4822 267 51239	Connector 15P
<b>CAPACITORS</b>		
2250	4822 124 40244	2,2μF 20% 63V
2251	4822 124 40244	2,2μF 20% 63V
2254	4822 122 33519	470pF 10% 50V
2255	4822 122 33519	470pF 10% 50V
2258	4822 124 40196	220μF 20% 16V
2259	4822 124 40196	220μF 20% 16V
2260	4822 124 41643	100μF 20% 16V
2261	4822 124 41643	100μF 20% 16V
2262	4822 122 33848	47pF 5%SL 50V
2263	4822 122 33848	47pF 5%SL 50V
2264	4822 122 33308	100pF 10% 500V
2265	4822 122 33308	100pF 10% 500V
2268	4822 122 33519	470pF 10% 50V
2269	4822 122 33519	470pF 10% 50V
2270	4822 124 80562	22μF 20% 160V
2271	4822 124 80562	22μF 20% 160V
2272	4822 122 10466	220pF 10% 50V
2273	4822 122 10466	220pF 10% 50V
2274	4822 126 12017	47pF NPO 500V
2275	4822 126 12017	47pF NPO 500V
2276	4822 124 41584	100μF 20% 10V
2277	4822 124 41584	100μF 20% 10V
2278	4822 124 41596	22μF 20% 50V
2279	4822 124 41596	22μF 20% 50V
2280	4822 122 33195	100pF 10% 50V
2281	4822 122 33195	100pF 10% 50V
2282	4822 122 33197	1nF 10% 50V
2283	4822 122 33197	1nF 10% 50V
2284	4822 121 42007	100nF 10% 100V
2285	4822 121 42007	100nF 10% 100V
2286	4822 126 11714	4,7nF 20%
2287	4822 126 11714	4,7nF 20%
2288	4822 126 11714	4,7nF 20%
2289	4822 126 11714	4,7nF 20%
2290	4822 121 43526	47nF 5% 100V
2292	4822 121 41854	150nF 5% 63V
2293	5322 124 41431	22μF 20% 35V
2294	5322 121 42661	330nF 5% 63V
2295	5322 121 42386	100nF 5% 63V
2296	4822 124 40201	1000μF 20% 16V
2297	5322 124 41431	22μF 20% 35V
2298	4822 124 40244	2,2μF 20% 63V
2303	4822 121 43875	47nF 5% 250V
2305	4822 124 80415	4700μF 20% 50V
2306	4822 124 80415	4700μF 20% 50V
2307	4822 121 43875	47nF 5% 250V
2309	4822 121 43875	47nF 5% 250V
2310	4822 121 42007	100nF 10% 100V
2311	4822 121 42007	100nF 10% 100V
2312	4822 121 42007	100nF 10% 100V
2313	4822 121 41984	47nF 10% 400V
2314	4822 121 41984	47nF 10% 400V
2315	4822 121 41984	47nF 10% 400V
2316	4822 124 80563	4700μF 20% 35V
2317	5322 124 21189	100μF 20% 40V
2318	5322 124 21189	100μF 20% 40V
2319	4822 122 33197	1nF 10% 50V
2321	4822 126 11585	22nF +80-20% 25V
2322	4822 124 40433	47μF 20% 25V
2323	4822 124 40242	1μF 20% 63V
2324	4822 124 40242	1μF 20% 63V
2325	4822 126 11585	22nF +80-20% 25V
2326	4822 124 80565	1000μF 20% 63V
2327	4822 124 80565	1000μF 20% 63V
2328	4822 122 33197	1nF 10% 50V
2329	4822 124 22263	220μF 20% 25V
2330	5322 124 22229	1000μF 20% 35V
2331	4822 124 41525	100μF 20% 25V
2332	4822 122 33195	100pF 10% 50V
2333	4822 122 33195	100pF 10% 50V
2334	4822 122 33849	150pF 10%Y5P 50V
2335	4822 122 33849	150pF 10%Y5P 50V
2336	4822 122 10466	220pF 10% 50V
2337	4822 122 10466	220pF 10% 50V
2338	4822 122 33197	1nF 10% 50V
2339	4822 122 33197	1nF 10% 50V
2340	4822 124 40771	47μF 20% 100V
2341	4822 124 40771	47μF 20% 100V
2342	4822 122 33197	1nF 10% 50V
2343	4822 122 33197	1nF 10% 50V
2344	4822 122 33197	1nF 10% 50V
2345	4822 122 33197	1nF 10% 50V
2346	4822 126 11585	22nF +80-20% 25V
<b>RESISTORS</b>		
3250	4822 116 52269	3k3 5% 0,5W
3251	4822 116 52284	47k 5% 0,5W
3252	4822 050 11002	1k 1% 0,4W
3253	4822 050 11002	1k 1% 0,4W
3254	4822 116 52257	22k 5% 0,5W
3255	4822 116 52284	47k 5% 0,5W
3256	4822 116 52233	10k 5% 0,5W
3257	4822 116 52284	47k 5% 0,5W
3258	4822 116 52257	22k 5% 0,5W
3259	4822 116 52257	22k 5% 0,5W
3260	4822 116 52284	47k 5% 0,5W
3261	4822 116 52284	47k 5% 0,5W
3262	4822 116 52251	18k 5% 0,5W
3263	4822 116 52284	47k 5% 0,5W
3266	4822 116 52225	510Ω 5% 0,5W
3267	4822 116 52225	510Ω 5% 0,5W

3268 4822 116 52257 22k 5% 0,5W  
 3269 4822 116 52257 22k 5% 0,5W  
 3270 4822 053 11222▲ 2k2 5% 2W  
 3271 4822 053 11222▲ 2k2 5% 2W  
 3272 4822 052 10471▲ 470Ω 5% 0,33W  
 3273 4822 052 10471▲ 470Ω 5% 0,33W  
 3274 4822 116 52256 2k2 5% 0,5W  
 3275 4822 116 52256 2k2 5% 0,5W  
 3276 4822 116 52188 27Ω 5% 0,5W  
 3277 4822 116 52188 27Ω 5% 0,5W  
 3280 4822 053 11472▲ 4k7 5% 2W  
 3281 4822 053 11472▲ 4k7 5% 2W  
 3282 4822 116 52283 4k7 5% 0,5W  
 3283 4822 116 52283 4k7 5% 0,5W  
 3284 4822 100 11391 330Ω 30%lin 0,1W  
 3285 4822 100 11391 330Ω 30%lin 0,1W  
 3286 4822 116 52243 1k5 5% 0,5W  
 3287 4822 116 52243 1k5 5% 0,5W  
 3288 4822 053 10222▲ 2k2 5% 1W  
 3289 4822 053 10222▲ 2k2 5% 1W  
 3290 4822 053 10302▲ 3k 5% 1W  
 3291 4822 053 10302▲ 3k 5% 1W  
 3292 4822 053 10103▲ 10k 5% 1W  
 3293 4822 053 10103▲ 10k 5% 1W  
 3294 4822 116 52211 150Ω 5% 0,5W  
 3295 4822 116 52211 150Ω 5% 0,5W  
 3296 4822 116 52211 150Ω 5% 0,5W  
 3297 4822 116 52211 150Ω 5% 0,5W  
 3298 4822 116 52224 470Ω 5% 0,5W  
 3299 4822 116 52224 470Ω 5% 0,5W  
 3300 4822 116 52263 2k7 5% 0,5W  
 3301 4822 116 52263 2k7 5% 0,5W  
 3302 4822 116 52224 470Ω 5% 0,5W  
 3303 4822 116 52224 470Ω 5% 0,5W  
 3304 4822 113 80632▲ 0Ω22 5% 4W  
 3305 4822 113 80632▲ 0Ω22 5% 4W  
 3306 4822 113 80632▲ 0Ω22 5% 4W  
 3307 4822 113 80632▲ 0Ω22 5% 4W  
 3308 4822 116 52304 82k 5% 0,5W  
 3309 4822 116 52304 82k 5% 0,5W  
 3310 4822 116 52252 180k 5% 0,5W  
 3311 4822 116 52257 22k 5% 0,5W  
 3312 4822 116 52291 56k 5% 0,5W  
 3313 4822 116 52257 22k 5% 0,5W  
 3314 4822 116 52297 68k 5% 0,5W  
 3315 4822 116 52211 150Ω 5% 0,5W  
 3316 4822 116 52283 4k7 5% 0,5W  
 3318 4822 050 11002 1k 1% 0,4W  
 3319 4822 050 11002 1k 1% 0,4W  
 3320 4822 116 52233 10k 5% 0,5W  
 3321 4822 116 52233 10k 5% 0,5W  
 3322 4822 052 10188▲ 1Ω8 5% 0,33W  
 3323 4822 052 10188▲ 1Ω8 5% 0,33W  
 3324 4822 052 10338▲ 3Ω3 5% 0,33W  
 3325 4822 052 10338▲ 3Ω3 5% 0,33W  
 3330 4822 116 52283 4k7 5% 0,5W  
 3331 4822 116 52283 4k7 5% 0,5W  
 3332 4822 050 23302 3k3 1% 0,6W  
 3333 4822 052 10221▲ 220Ω 5% 0,33W  
 3334 4822 050 21002 1k 1% 0,6W  
 3335 4822 050 21002 1k 1% 0,6W  
 3336 4822 050 21002 1k 1% 0,6W  
 3342 4822 052 10109▲ 10Ω 5% 0,33W  
 3343 4822 052 10478▲ 4Ω7 5% 0,33W

3344 4822 050 21802▲ 1k8 1% 0,6W  
 3345 4822 050 21202▲ 1k2 1% 0,6W  
 3346 4822 053 12391▲ 390Ω 5% 3W  
 3347 4822 053 12391▲ 390Ω 5% 3W  
 3348 4822 050 21501▲ 150Ω 1% 0,6W  
 3349 4822 050 21501▲ 150Ω 1% 0,6W  
 3350 4822 052 10229▲ 22Ω 5% 0,33W  
 3354 4822 116 52224 470Ω 5% 0,5W  
 3355 4822 116 52224 470Ω 5% 0,5W  
 3356 4822 116 52195 47Ω 5% 0,5W  
 3357 4822 116 52195 47Ω 5% 0,5W  
 3360 4822 052 10399▲ 39Ω 5% 0,33W  
 3361 4822 052 10399▲ 39Ω 5% 0,33W  
 3366 4822 052 10188▲ 1Ω8 5% 0,33W  
 3367 4822 052 10188▲ 1Ω8 5% 0,33W  
 3368 4822 052 10338▲ 3Ω3 5% 0,33W  
 3369 4822 052 10338▲ 3Ω3 5% 0,33W  
 3370 4822 116 52251 18k 5% 0,5W  
 3371 4822 116 52251 18k 5% 0,5W  
 3372 4822 116 52257 22k 5% 0,5W  
 3374 4822 116 52263 2k7 5% 0,5W  
 3375 4822 116 52263 2k7 5% 0,5W  
 3376 4822 116 52263 2k7 5% 0,5W  
 3377 4822 116 52263 2k7 5% 0,5W  
 3380 4822 052 10339▲ 33Ω 5% 0,33W  
 3381 4822 052 10339▲ 33Ω 5% 0,33W  
 3382 4822 052 10229▲ 22Ω 5% 0,33W  
 3383 4822 116 52238 12k 5% 0,5W  
 3384 4822 113 80633▲ 0Ω1 5% 3W  
 3385 4822 113 80633▲ 0Ω1 5% 3W  
 3386 4822 116 52283 4k7 5% 0,5W  
 3387 4822 113 80633▲ 0Ω1 5% 3W  
 3388 4822 116 52283 4k7 5% 0,5W  
 3389 4822 116 52283 4k7 5% 0,5W  
 3390 4822 116 52235 1M 5% 0,5W  
 3391 4822 116 52235 1M 5% 0,5W  
 3393 4822 116 52283 4k7 5% 0,5W  
 3396 4822 052 10228▲ 2Ω2 5% 0,33W  
 3397 4822 052 10228▲ 2Ω2 5% 0,33W

**COILS**

5252 4822 157 70599 Coil  
 5253 4822 157 70599 Coil  
 5254 4822 280 60567▲ Relay  
 5255 4822 280 60567▲ Relay  
 5256 4822 280 60567▲ Relay

**DIODES**

6250 4822 130 61219 BZX79-C10  
 6251 4822 130 61219 BZX79-C10  
 6252 4822 130 34281 BZX79-C15  
 6253 4822 130 34281 BZX79-C15  
 6254 4822 130 30621 1N4148  
 6255 5322 130 30684 1N4002GP  
 6256 4822 130 30842 BAV21  
 6257 4822 130 30842 BAV21  
 6258 5322 130 34563 BZX79-C2V7

6259 5322 130 34563 BZX79-C2V7  
 6260 5322 130 31504 BZX79-C3V3  
 6261 5322 130 31504 BZX79-C3V3  
 6262 4822 130 30842 BAV21  
 6263 4822 130 30842 BAV21  
 6264 4822 130 32213▲ BYV28-50  
 6265 4822 130 32213▲ BYV28-50  
 6266 4822 130 32213▲ BYV28-50  
 6267 4822 130 32213▲ BYV28-50  
 6268 4822 130 30621 1N4148  
 6269 4822 130 30621 1N4148  
 6270 4822 130 30621 1N4148  
 6271 4822 130 30621 1N4148  
 6272 4822 130 30621 1N4148  
 6273 4822 130 34278 BZX79-C6V8  
 6274 4822 130 30621 1N4148  
 6275 4822 130 30621 1N4148  
 6276 4822 130 30621 1N4148  
 6277 4822 130 30621 1N4148  
 6278 5322 130 30684▲ 1N4002GP  
 6279 5322 130 30684▲ 1N4002GP  
 6280 5322 130 30684▲ 1N4002GP  
 6281 5322 130 30684▲ 1N4002GP  
 6282 4822 130 34281 BZX79-C15  
 6283 4822 130 82078▲ D5SBA20  
 6284 4822 130 82079▲ D3SBA20  
 6285 4822 130 30621 1N4148  
 6286 4822 130 30621 1N4148  
 6287 4822 130 30621 1N4148  
 6288 4822 130 30621 1N4148  
 6289 4822 130 30621 1N4148  
 6290 4822 130 30621 1N4148  
 6291 4822 130 30621 1N4148  
 6292 4822 130 30621 1N4148  
 6293 4822 130 30621 1N4148  
 6294 4822 130 30621 1N4148  
 6295 4822 130 30621 1N4148  
 6296 4822 130 30621 1N4148  
 6297 4822 130 30621 1N4148  
 6298 4822 130 34281 BZX79-C15  
 6299 4822 130 30621 1N4148  
 6301 4822 130 34499 BZX79-C20  
 6302 4822 130 34281 BZX79-C15  
 6303 4822 130 30621 1N4148  
 6304 4822 130 30621 1N4148  
 6305 4822 130 30621 1N4148  
 6306 5322 130 30684 1N4002GP  
 6307 5322 130 30684 1N4002GP  
 6308 4822 130 30621 1N4148  
 6309 4822 130 30621 1N4148  
 6311 4822 130 30621 1N4148  
 6312 4822 130 30621 1N4148  
 6313 4822 130 30621 1N4148

**TRANSISTORS & IC's**

7250 4822 130 40937 BC548B  
 7251 4822 130 40937 BC548B  
 7252 4822 209 80891▲ MC 78M05CT  
 7255 4822 209 83274 NJM4560D  
 7256 4822 130 41691 BC556B  
 7257 4822 130 41691 BC556B

7258 4822 130 43283 2SC2705  
 7259 4822 130 43283 2SC2705  
 7260 4822 130 63317 2SC3419Y  
 7261 4822 130 63317 2SC3419Y  
 7264 4822 130 40937 BC548B  
 7265 4822 130 40937 BC548B  
 7266 4822 130 44197 BC558B  
 7267 4822 130 44197 BC558B  
 7268 4822 130 62954▲ 2SD1895  
 7269 4822 130 62954▲ 2SD1895  
 7270 4822 130 62954▲ 2SD1895  
 7271 4822 130 62954▲ 2SD1895  
 7272 4822 130 62953▲ 2SB1255  
 7273 4822 130 62953▲ 2SB1255  
 7274 4822 130 62953▲ 2SB1255  
 7275 4822 130 62953▲ 2SB1255  
 7276 4822 130 40937 BC548B  
 7277 4822 130 44461 BC546B  
 7279 4822 130 44461 BC546B  
 7280 4822 130 44461 BC546B  
 7281 4822 130 62952▲ BDT61F  
 7282 4822 130 40824▲ BD136  
 7283 4822 130 40937 BC548B  
 7284 4822 130 40937 BC548B  
 7285 4822 130 40959 BC547B  
 7286 4822 130 40941 BC558  
 7287 4822 130 40937 BC548B  
 7288 4822 130 40937 BC548B  
 7289 4822 130 40937 BC548B  
 7290 4822 130 41691 BC556B  
 7291 4822 130 44461 BC546B

**DIGITAL SELECTOR**

**CAPACITORS**

1475 4822 267 20453 Pin jack  
 2475 4822 126 10781 470pF 50V  
 2476 4822 122 33195 100pF 10% 50V  
 2477 4822 126 10781 470pF 50V  
 2478 4822 122 33195 100pF 10% 50V  
 2479 4822 126 10781 470pF 50V  
 2480 4822 122 33195 100pF 10% 50V  
 2481 4822 126 10781 470pF 50V  
 2482 4822 122 33195 100pF 10% 50V  
 2485 4822 122 10466 220pF 10% 50V  
 2486 4822 122 10466 220pF 10% 50V  
 2487 4822 122 10466 220pF 10% 50V  
 2489 4822 124 40435 10μF 20% 50V  
 2490 4822 124 40435 10μF 20% 50V  
 2492 4822 122 33195 100pF 10% 50V  
 2493 4822 122 33195 100pF 10% 50V  
 2495 4822 126 10781 470pF 50V  
 2496 4822 126 10781 470pF 50V  
 2497 4822 124 40435 10μF 20% 50V  
 2498 4822 124 40435 10μF 20% 50V  
 2499 4822 122 33195 100pF 10% 50V  
 2500 4822 122 33195 100pF 10% 50V  
 2501 4822 122 33195 100pF 10% 50V  
 2502 4822 122 33069 33pF 5%5L 50V





**RESISTORS**

3801	4822 116 52284	47k 5% 0,5W
3802	4822 116 52284	47k 5% 0,5W
3803	4822 116 52175	100Ω 5% 0,5W
3804	4822 116 52175	100Ω 5% 0,5W
3805	4822 116 52175	100Ω 5% 0,5W
3806	4822 116 52175	100Ω 5% 0,5W
3807	4822 050 22202	2k2 1% 0,6W
3808	4822 050 22202	2k2 1% 0,6W
3809	4822 050 22202	2k2 1% 0,6W
3810	4822 050 22202	2k2 1% 0,6W
3811	4822 116 52263	2k7 5% 0,5W
3812	4822 116 52263	2k7 5% 0,5W
3813	4822 116 52213	180Ω 5% 0,5W
3814	4822 116 52213	180Ω 5% 0,5W
3815	4822 050 11002	1k 1% 0,4W
3816	4822 050 11002	1k 1% 0,4W
3817	4822 116 52184	18Ω 5% 0,5W
3818	4822 116 52184	18Ω 5% 0,5W
3819	4822 116 52238	12k 5% 0,5W
3820	4822 116 52238	12k 5% 0,5W
3821	4822 116 52245	150k 5% 0,5W
3822	4822 116 52245	150k 5% 0,5W
3825	4822 116 52284	47k 5% 0,5W
3826	4822 116 52284	47k 5% 0,5W
3827	4822 116 52199	68Ω 5% 0,5W
3828	4822 116 52199	68Ω 5% 0,5W
3829	4822 052 10229▲	22Ω 5% 0,33W
3830	4822 052 10229▲	22Ω 5% 0,33W
3831	4822 116 52202	82Ω 5% 0,5W
3833	4822 116 52195	47Ω 5% 0,5W
3834	4822 116 52195	47Ω 5% 0,5W

**COILS**

5801	4822 157 70062	Coil 320μH
5802	4822 157 70062	Coil 320μH

**TRANSISTORS & IC's**

7801	4822 130 63122	2SK369BL
7802	4822 130 63122	2SK369BL
7803	4822 130 63122	2SK369BL
7804	4822 130 63122	2SK369BL
7805	4822 209 73064	NJM2068D-D
5001	4822 146 31237▲	Mains trafo
5001	4822 146 31265▲	Mains trafo /01S