AMPLIFIER 70FA931

/00S/01S

Service
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Service Manual

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PHILIPS

PCS 69 275

SPECIFICATION

General:

Mains voltage	:230V 50Hz for/00
	:240V 50Hz for/05
	:120/230V 50Hz/60Hz for/01
Power consumption	:≤ 290W at 2x115W output power (at8Ω load)
	:≤ 420W at 2x130W output power(at4Ω load)
	:≤ 20W at stand by
Fuzzy Power Control	:checks the output power level continuously
Dimensions:(wxhxd)	:435x124x300 mm

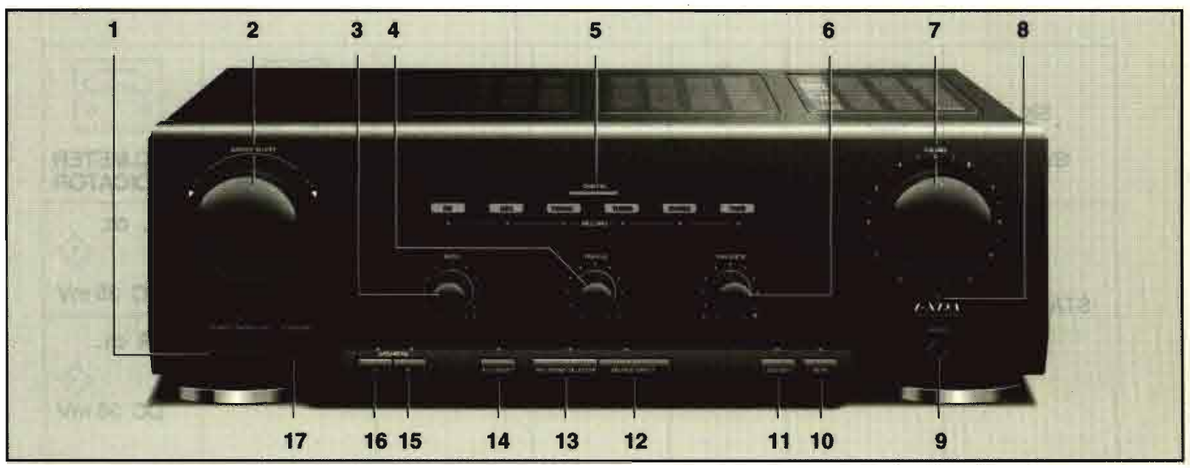
Amplifier:

Output power &	:≤2x 65W at 8Ω D=≤0,7%(IEC/DIN)
Distortion (D)	:≤2x 75W at 4Ω D=≤0,7%(IEC 268.3)
	:≤2x 55W at 8Ω D=≤0,01% (at 1kHz)
	:≤2x 55W at 8Ω D=≤0,09% (20Hz...20kHz)
Max output power	:≤2x115W at 8Ω with IEC 268 noise
	:≤2x130W at 4Ω with IEC 268 noise1
Power bandwidth	:5Hz....60kHz D=≤0,7% (Prated -3dB)
Sign.Noise:	
Phono input M.M.	:≥80dBA (A-curve weighted)(IEC at Prated and Rsource=2k2)
Linear inputs	;≥101dBA (A-curve weighted)(IEC at Prated and Rsource=22kΩ)
Crosstalk :	
Between channels	:≥50dB (100Hz.....10kHz)
source	:≥65dB (100Hz.....10kHz)
Loudspeaker impedance	:8.....16Ω
Two pair of speakers in parallel	:impedance 16Ω only
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)
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
Volume gain alignment	:≤2dB 0....-40dB
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
	:Output voltage :TV/AUX 250mV Ro < 2k5
	:Tape 250mV Ro < 2k5
	:DCC 250mV Ro < 2k5
	:Process 250mV Ro < 2k5

Digital recorder selector:

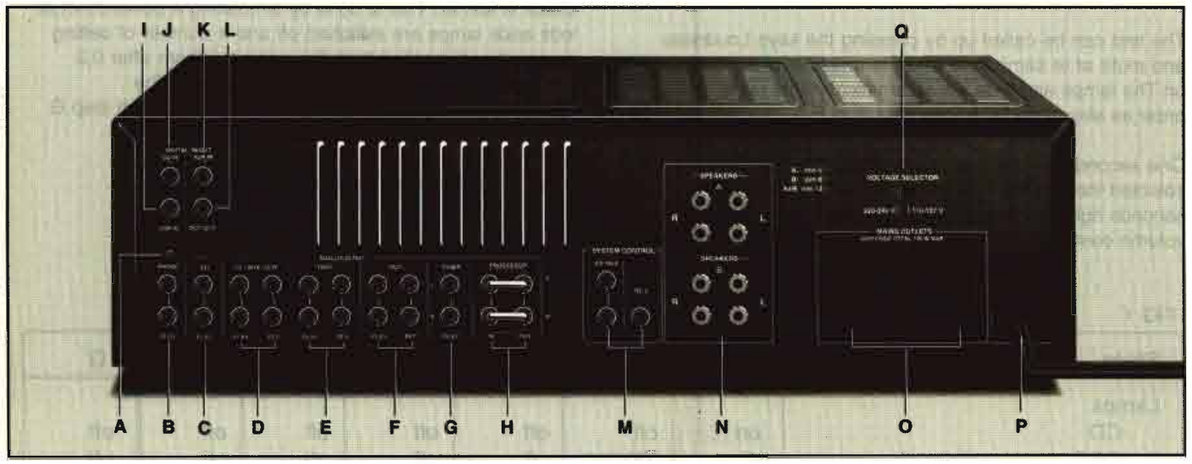
input	:impedance 75Ω
	:sensitivity 200 ...500mV peak-peak
output	:impedance 75Ω
	:level 500mV peak-peak into 75Ω load
bitrate	:2...3MBit/sec
input type	:unbalanced
output type	:unbalanced
Damping factor	:≥70% at 1kHz 8Ω Load
Remote Control	:RC5 input 1xcinch (orange)
	:Enhanced easylink 2xcinch (green)

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	1401
B)	Phono	ground	
C)	CD	input	1401
D)	TV/AUX/VCR	input	1401
	VCR	output	1401
E)	Tape	input	1402
	Tape	output	1402
F)	DCC	input	1402
	DCC	output	1402
G)	Tuner	input	1403
H)	Processor	in	1403
	Processor	out	1403
I)	DSR digital	input	1478
J)	CD digital	input	1478
K)	AUX digital input		1478
L)	DCC digital output		1478
M)	Easy link	Bus	1261
	RC 5	Bus	1262
N)	Speaker system A Right		1264
	Speaker system A Left		1264
	Speaker system B Right		1263
	Speaker system B Left		1263
O)	Switched AC outleds		1926-27-28
P)	Fixed mainscord		
Q)	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 te same time when te 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 volume knob turns for about 1 seconds right and then 1 seconds 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 ands lamps are switched off and a number of setting is stored and recalled from the eeprom.Whem 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
Lamps							
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
Record Out Selector Leds							
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
Source Leds							
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 thatthe 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 condizione originali e che iano utilizzati pezzi di ricambiago identici a quelli specificati.

F

Les normes de sécurité exigent que lappareil soit remis à létat d'origine et que soient utilisées les pieces de rechange identiques à celles spécifiées.

Pour votre sécurité, ces documents doivent etre utilisés par des specialistes agrées, 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. 1 2 DC 35 mV
				R ch. R 3284		R ch. 3 4 DC 35 mV

- Check for good thermal contact between power transistor and heatsink.
- Mains Voltage 230V ±5%
- Ambient themperature =20° ± 5° and heatsink must be atambient temperature.
- Set volume position to minimum.
- Place the set in stand-by position.
- Trimpotmeter in clock wize position.
- The adjustment must be finished for both channels 30sec after power on.

GB WARNING

All IC_s and many other semi conductors are susceptible to electrostatic discharges (ESD).
Careless handling during repair can reduce life drastically.When reparing, 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 ICs en vele andere halfgeleiders zijn gevoelig voor electrostatische ontladingen (ESD)
Onzorgvuldig behandelen tijden 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 ditzelfde potentiaal.

D WARNUNG

Alle IC_s und viele andere Halbleiter sind empfindlich gegenüber electrostatischen Entladungen (ESD).
Unsorgfältige Behandlung im Reparaturfall kan 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 pourrair etre considérablement écourtée par le fait qu'aucune precaution n'est prise à leur manipulation.
Lors de réparations, s'assurer de bien etre relié au meme potentiel que la masse de l'appareil et enfiler le bracelet serti d'une résistance de sécurité.
Veiller á ce que les composants ainsi que les outils que l'on utilise soient également á ce potentiel.

I AVERTIMENTO

Tutti IC e parecchi semiconduttori sono sensibili alle scariche statiche. (ESD)
La loro longevità potrebbe essere fortemente ridatta in caso di non osservazione della più grande cauzione alla loro manipolazione. Durante le riparazioni occorre quindi essere collegato allo stesso potenziale che quello della massa dell apparecchio tramite un braccialetto a resistenza.
Assicurarsi 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
2	IRQ	RC-5
3	VPP	+5V
4	PA7	Standby led
5	PA6	Lamp CDR/AUX
6	PA5	Mute amplifier
7	PA4	Standby amplifier
8	PA3	Volume up
9	PA2	Keyboard scan line 3
10	PA1	Keyboard scan line 2
11	PA0	Keyboard scan line 1
12	PB0	Keyboard return line 3
13	PB1	Keyboard return line 2
14	PB2	Keyboard return line 1/Data-out eeprom
15	PB3	Volume down
16	PB4	Data in eeprom/Data shiftregisters
17	PB5	Clock eeprom/Clock shiftregisters
18	PB6	CS eeprom
19	PB7	Strobe shiftregisters
20	GND	Ground
21	PC7	Lamp PHONO
22	PC6	Lamp TAPE
23	PC5	Lamp CD
24	PC4	Lamp DCC
25	PC3	CE2 analog/digital selector
26	PC2	Clock analog/digital selector
27	PC1	Data analog/digital selector
28	PC0	CE1 analog
29	PD0	Autoprotect line
30	PD1	Sence rotary knob
31	PD2	Rotary line 1
32	PD3	Rotary line 2
33	PD4	Powerdown/Option line 2
34	PD5	Powerdown/Option line 1
35	TCMP	EasyLink output
36	PD7	EasyLink input
37	TCAP	EasyLink input
38	OSC2	4 MHz crystal
39	OSC1	4 MHz crystal
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 impedanees,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 therminals.
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 intern 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 thees 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.

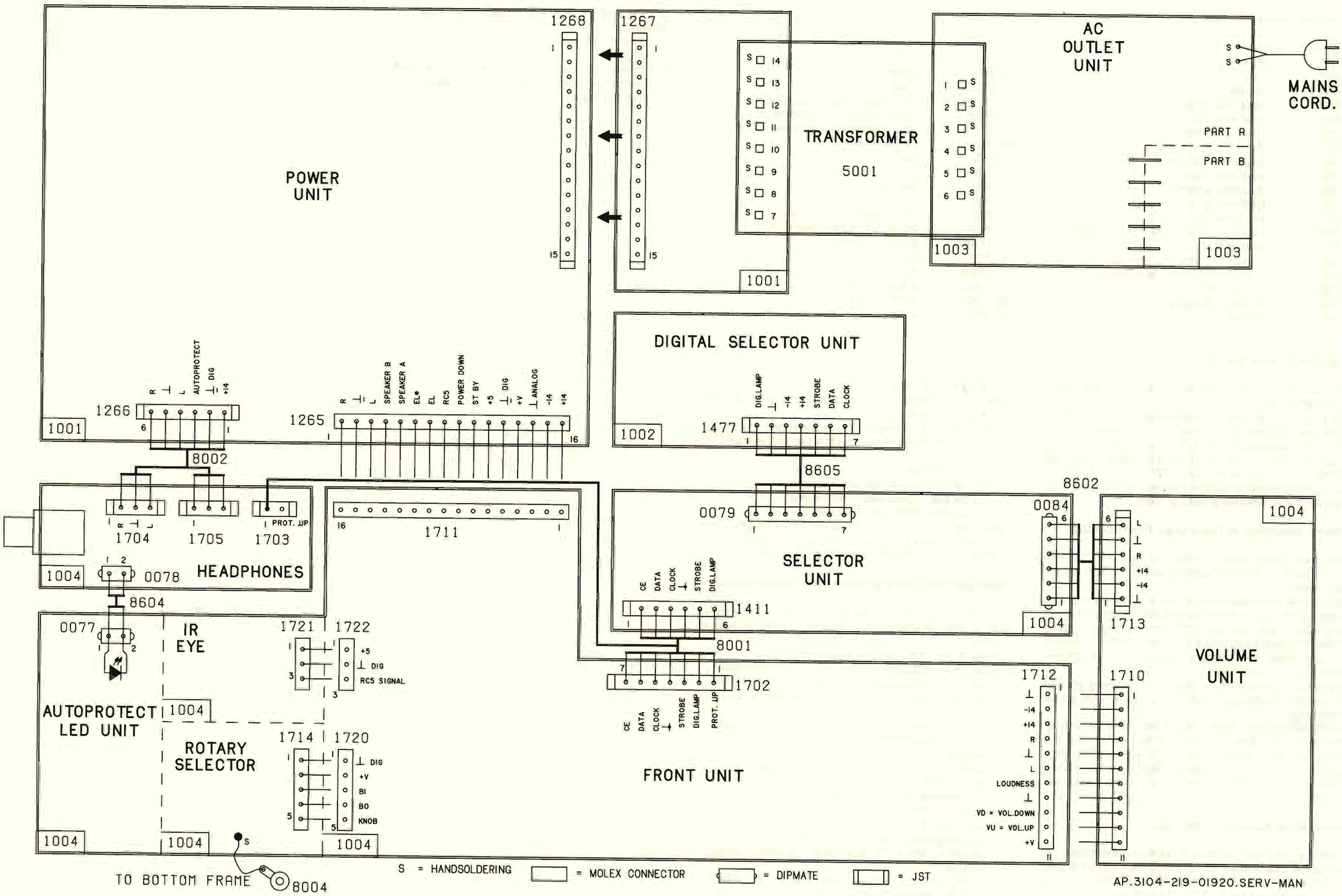
Changing the TV source allocation:

* 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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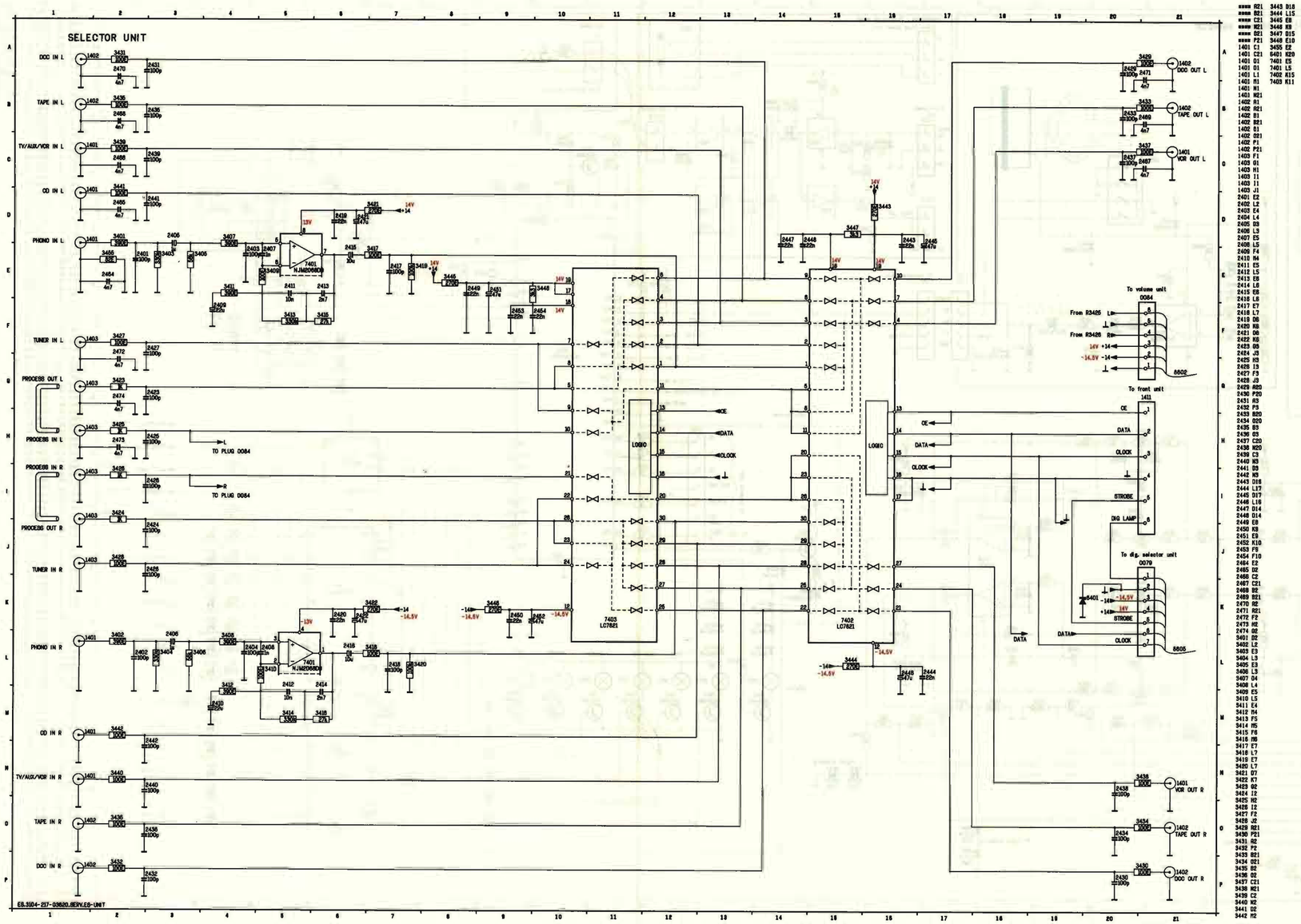
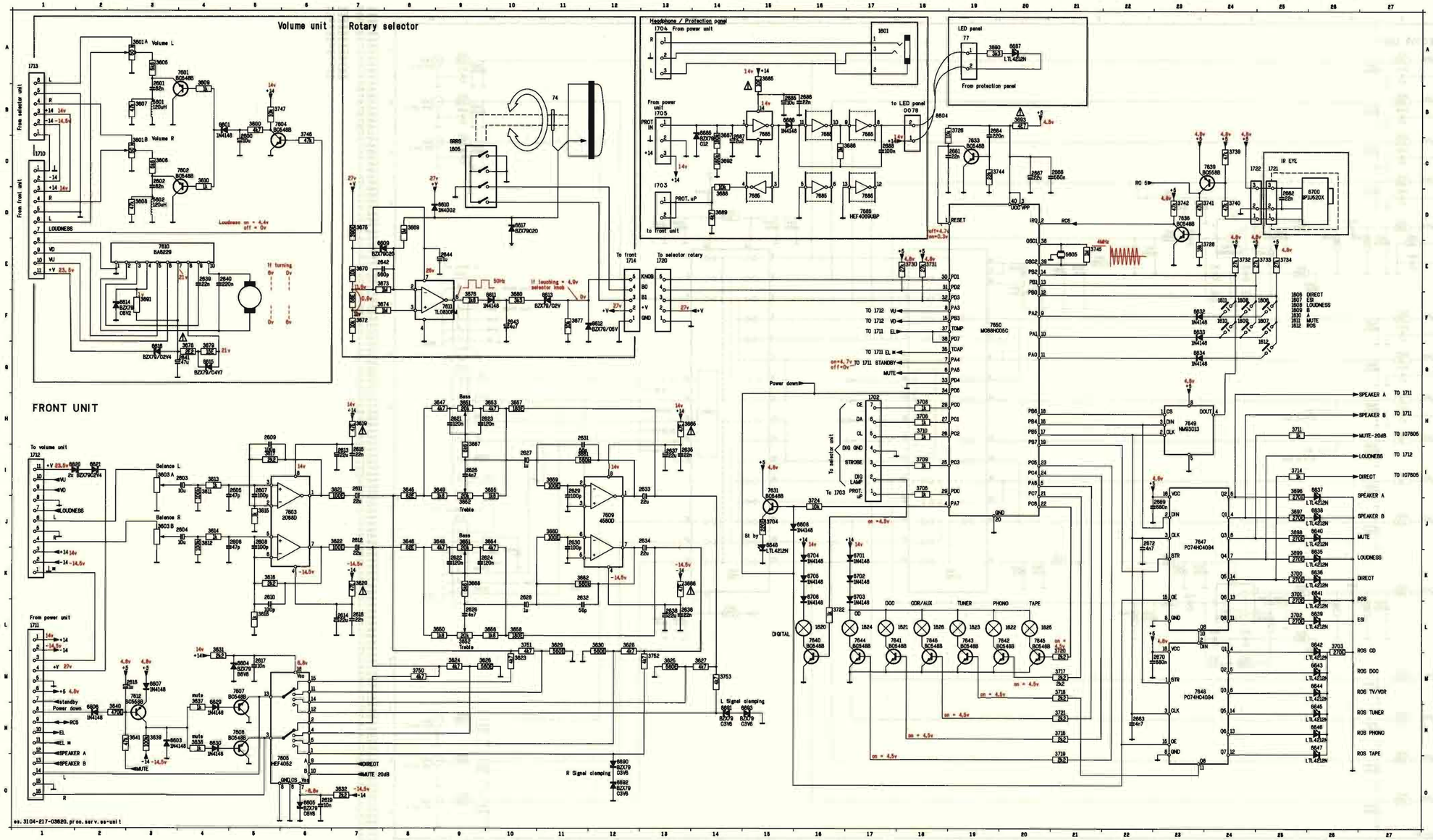
SELECTOR DIAGRAM



FRONT DIAGRAM
VOLUME DIAGRAM
ROTARY SELECTOR DIAGRAM

14 15 16



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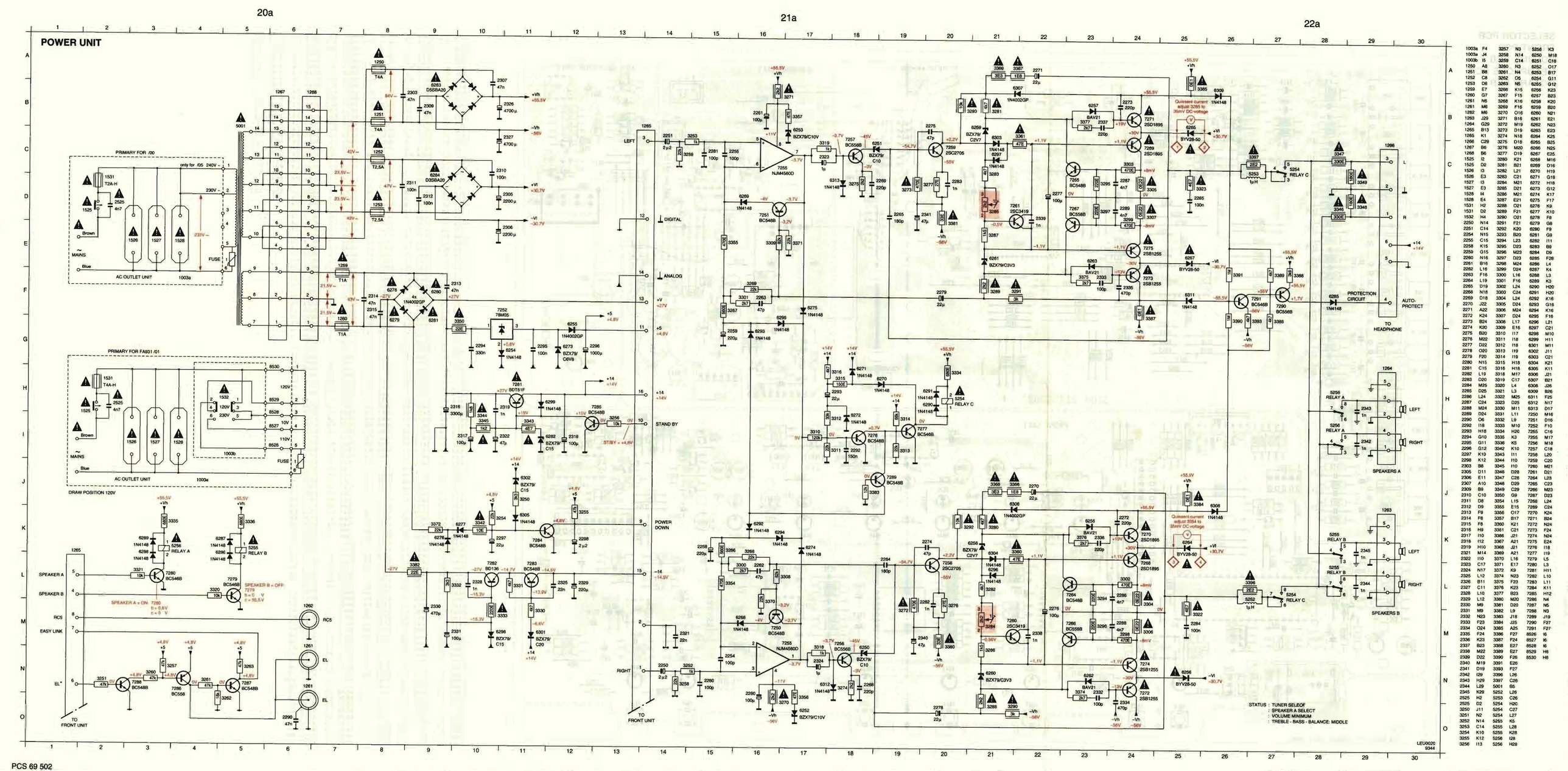
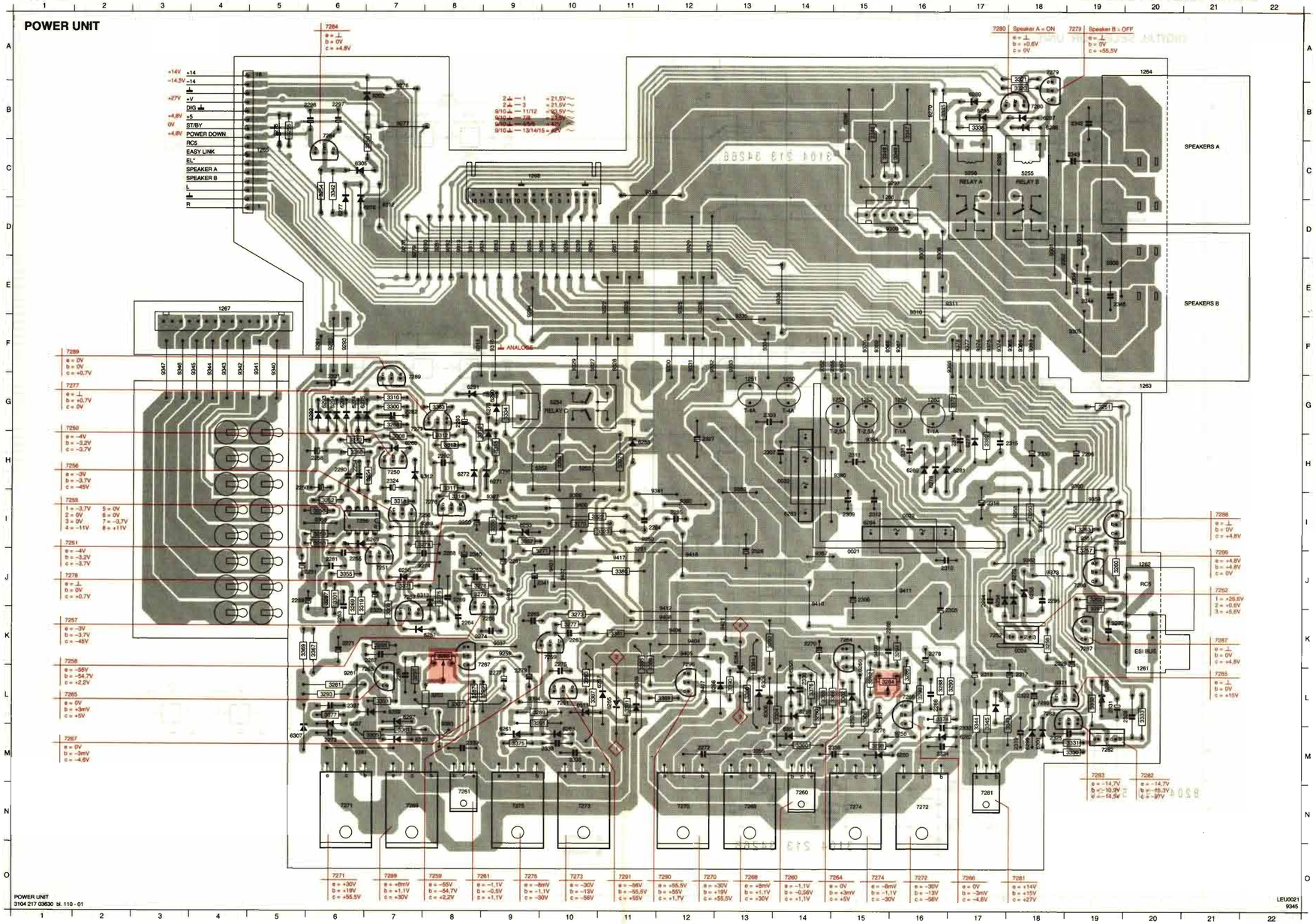


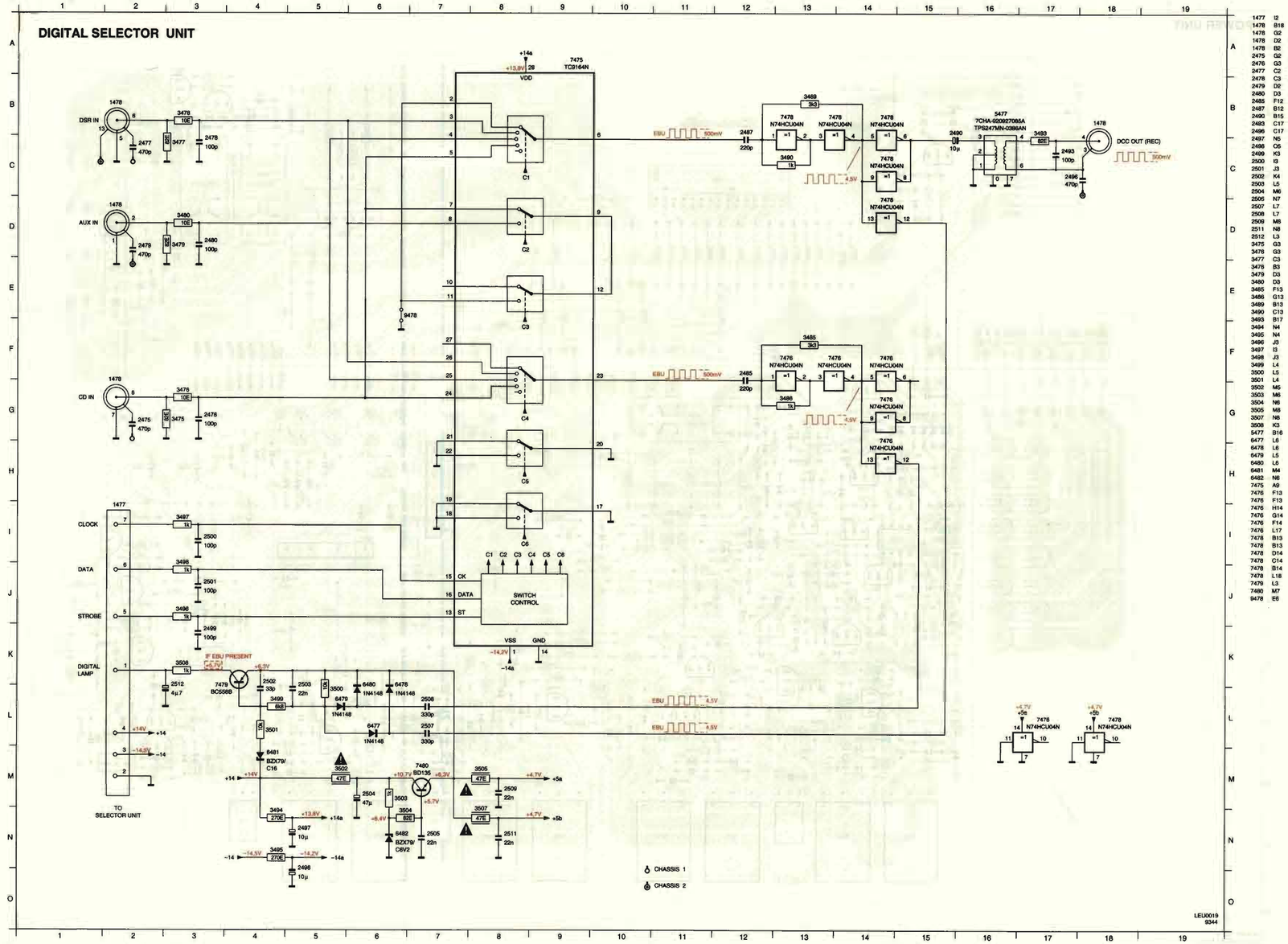
1003a	F4	3257	N3	5256	K3
1003a	J4	3258	N14	6250	M18
1003b	I5	3259	C14	6251	C18
1250	A8	3260	N3	6252	C17
1251	B8	3261	N4	6253	B17
1252	C8	3262	O5	6254	G11
1253	D8	3263	N5	6255	G12
1259	E7	3266	K15	6256	K23
1260	G7	3267	F15	6257	B23
1261	N6	3268	C16	6258	K20
1261	M6	3269	F16	6259	B20
1262	M6	3270	O16	6260	N21
1263	J29	3271	B16	6261	E21
1264	G29	3272	M19	6262	N23
1265	B13	3273	D19	6263	E23
1265	K1	3274	N18	6264	K25
1266	C29	3275	D18	6265	B25
1267	B6	3276	M20	6266	N25
1268	B6	3277	D17	6267	E25
1525	I2	3280	K21	6268	M16
1525	D2	3281	B21	6269	D16
1526	I3	3282	L21	6270	H19
1526	E3	3283	C21	6271	G18
1527	I3	3284	M21	6272	H18
1527	E3	3285	D21	6273	G12
1528	I4	3286	M21	6274	K17
1528	E4	3287	E21	6275	F17
1531	H2	3288	C21	6276	K9
1531	D2	3289	F21	6277	K10
1532	H4	3290	O21	6278	F8
2250	N14	3291	F21	6279	G8
2251	C14	3292	K20	6280	F9
2254	N15	3293	B20	6281	G9
2255	C15	3294	L23	6282	I11
2258	K15	3295	D23	6283	B9
2259	G15	3296	M23	6284	D9
2260	N16	3297	D23	6285	F28
2261	B16	3298	M24	6286	L4
2262	L16	3299	D24	6287	K4
2263	F16	3300	L16	6288	L3
2264	L19	3301	F16	6289	K3
2265	D19	3302	L24	6290	H20
2268	N18	3303	C24	6291	H20
2269	D18	3304	L24	6292	K16
2270	J22	3305	D24	6293	G16
2271	A22	3306	M24	6294	K16
2272	K24	3307	D24	6295	F16
2273	B24	3308	L17	6296	L21
2274	K20	3309	E16	6297	C21
2275	B20	3310	I17	6298	M10
2276	M22	3311	I18	6299	H11
2277	D22	3312	I18	6301	M11
2278	O20	3313	I19	6302	J11
2279	F20	3314	I19	6303	C21
2280	N15	3315	H18	6304	K21
2281	C15	3316	H18	6305	K11
2282	L19	3318	M17	6306	J21
2283	D20	3319	C17	6307	B21
2284	M25	3320	L4	6308	J26
2285	D25	3321	L3	6309	B26
2286	L24	3322	M25	6311	F25
2287	C24	3323	D25	6312	N17
2288	M24	3330	M11	6313	D17
2289	D24	3331	L11	7250	M16
2290	O6	3332	L9	7251	D16
2292	I18	3333	M10	7252	F10
2293	H18	3334	H20	7255	C16
2294	G10	3335	K3	7255	M17
2295	G11	3336	K5	7256	M18
2296	G12	3342	K10	7257	C18
2297	K10	3343	I11	7258	L20
2298	K12	3344	I10	7259	C20
2303	B8	3345	I10	7260	M21
2305	D11	3346	D28	7261	D21
2306	E11	3347	C28	7264	L23
2307	A10	3348	D29	7265	C23
2309	B9	3349	C29	7266	M23
2310	C10	3350	G9	7267	D23
2311	D8	3354	L15	7268	L24
2312	D9	3355	E15	7269	C24
2313	F9	3356	O17	7270	K24
2314	F8	3357	B17	7271	B24
2315	F8	3360	K21	7272	N24
2316	H9	3361	C21	7273	F24
2317	I10	3366	J21	7274	N24
2318	I12	3367	A21	7275	E24
2319	H10	3368	J21	7276	I18
2321	M14	3369	A21	7277	I19
2322	I10	3370	L16	7279	L5
2323	C17	3371	E17	7280	L3
2324	N19	3372	K9	7281	H11
2325	L12	3374	N23	7282	L10
2326	B11	3375	F23	7283	L11
2327	C11	3376	K23	7284	K11
2328	L10	3377	B23	7285	H12
2329	L12	3380	M20	7286	N4
2330	M9	3381	D20	7287	N5
2331	M9	3382	L9	7288	N3
2332	N23	3383	J18	7289	J19
2333	F23	3384	J25	7290	F27
2334	O24	3385	A25	7291	F27
2335	F24	3386	F27	8526	I5
2336	K23	3387	F24	8527	I6
2337	B23	3388	E27	8528	I6
2338	M22	3389	E27	8529	H6
2339	D22	3390	F26	8530	H6
2340	M19	3391	E26		
2341	D19	3393	F27		
2342	I29	3396	L26		
2343	H29	3397	C26		
2344	L29	5001	B5		
2345	K29	5252	L26		
2525	H2	5253	C26		
2525	D2	5254	H20		
3250	J11	5254	C27		
3251	N2	5254	L27		
3252	N14	5255	K5		
3253	C14	5255	L28		
3254	K10	5255	K28		
3255	K12	5256	I28		
3256	I13	5256	H28		



0021	J15	3275	J8	6274	G6	9317	D11
0022	H14	3276	J8	6275	G6	9318	D11
0022	I16	3277	K10	6276	D6	9319	C11
0024	K18	3280	L14	6277	D5	9320	D12
1250	G14	3281	L6	6278	H16	9321	D12
1251	G13	3282	L15	6279	H17	9322	E11
1252	G15	3283	L9	6280	H16	9323	E11
1253	G15	3284	L15	6281	H17	9324	D9
1259	G16	3285	K8	6282	L17	9325	E12
1260	G16	3286	L16	6283	I14	9326	E12
1261	L20	3287	L8	6284	I15	9327	F10
1262	J20	3288	L16	6285	H11	9328	F11
1263	G20	3289	L9	6286	B18	9329	F10
1264	A20	3290	L17	6287	B18	9330	F12
1265	C5	3291	M9	6288	B17	9331	F12
1266	D15	3292	K13	6289	B17	9332	F12
1267	E4	3293	L6	6290	G9	9333	F13
1268	C9	3294	K16	6291	G8	9334	F13
2250	H5	3295	K7	6292	G6	9335	F13
2251	J5	3296	L16	6293	G5	9336	E14
2254	H6	3297	L7	6294	G6	9337	K9
2255	J6	3298	M15	6295	G6	9340	G5
2258	H6	3299	L9	6296	L14	9341	G5
2259	J5	3300	G7	6297	L7	9342	G4
2260	I8	3301	J6	6298	L19	9343	G4
2261	J9	3302	L15	6299	M18	9344	G4
2262	G7	3303	L7	6301	M18	9345	G4
2263	K6	3304	L14	6302	B7	9346	G3
2264	K8	3305	M7	6303	M7	9347	G3
2265	K9	3306	L15	6304	M14	9351	I19
2268	J8	3307	L8	6305	C6	9352	F14
2269	J8	3308	H7	6306	L13	9354	H15
2270	K14	3309	K7	6307	M6	9355	F15
2271	K6	3310	G7	6308	L13	9356	M13
2272	M12	3311	H8	6309	L11	9357	F15
2273	M6	3312	H8	6311	L10	9358	I18
2274	K8	3313	H8	6312	H7	9359	I19
2275	L10	3314	I8	6313	J7	9360	H19
2276	M15	3315	H9	7250	H7	9361	I18
2277	L9	3316	H8	7251	J7	9362	J18
2278	K16	3318	I7	7252	K17	9363	F18
2279	L9	3319	K6	7255	I6	9364	F18
2280	H6	3320	B18	7256	I7	9365	F18
2281	J6	3321	B18	7257	J7	9366	F17
2282	J8	3322	I10	7258	K9	9367	F16
2283	K10	3323	I10	7259	K10	9368	F15
2284	I11	3330	M19	7260	N14	9369	F15
2285	I12	3331	M19	7261	N8	9370	F15
2286	K16	3332	L19	7264	K15	9371	L18
2287	K7	3333	L20	7265	L6	9373	J18
2288	L16	3334	G9	7266	L16	9374	F17
2289	L7	3335	B16	7267	L8	9375	F17
2290	K19	3336	B17	7268	N13	9376	F17
2292	H8	3342	C6	7269	N7	9377	F17
2293	G8	3343	M16	7270	N12	9378	F17
2294	J17	3344	M17	7271	N6	9380	H15
2295	J18	3345	M17	7272	N16	9381	I11
2296	H19	3346	B15	7273	N10	9382	I12
2297	B6	3347	B16	7274	N15	9383	H13
2298	B5	3348	C15	7275	N9	9397	J14
2303	G13	3349	C16	7276	I8	9398	I6
2305	K16	3350	I18	7277	G7	9399	I7
2306	J15	3354	H7	7279	A18	9390	I7
2307	H13	3355	J6	7280	B18	9391	M6
2309	I15	3356	I9	7281	N17	9393	M8
2310	J16	3357	I9	7282	M19	9394	L9
2311	H15	3360	M14	7283	L18	9396	H9
2312	I15	3361	M7	7284	B6	9397	I9
2313	H16	3366	L15	7285	L18	9399	I10
2314	H17	3367	K6	7286	J19	9400	I10
2315	H17	3368	L14	7287	K19	9401	J10
2316	I17	3369	K5	7288	I19	9402	J10
2317	L18	3370	H6	7289	G7	9403	J9
2318	L17	3371	J7	7290	K12	9404	K12
2319	M18	3372	G17	7291	L10	9405	K12
2321	G6	3374	L16	9250	I11	9406	K12
2322	L18	3375	M9	9251	J11	9407	L12
2323	K7	3376	L14	9256	M16	9408	K12
2324	H7	3377	L6	9259	K9	9409	K15
2325	M18	3380	J11	9260	L15	9410	J14
2326	J13	3381	K11	9261	L6	9411	J16
2327	H12	3382	H17	9270	B16	9412	K12
2328	L20	3383	G8	9274	J7	9416	J12
2329	K18	3384	L13	9275	B5	9417	J11
2330	H18	3385	L11	9276	B7	9421	K13
2331	L19	3386	L13	9277	B7		
2332	M17	3387	L10	9278	D7		
2333	M10	3388	L11	9279	E7		
2334	M16	3389	L12	9280	D8		
2335	M10	3390	L13	9281	D8		
2336	L14	3391	L11	9282	D8		
2337	L6	3393	L10	9283	D9		
2338	M14	3396	H10	9284	D9		
2339	M6	3397	H11	9285	D9		
2340	J8	5252	H9	9286	D10		
2341	J9	5253	H10	9287	D10		
2342	B19	5254	G10	9288	D10		
2343	C19	5255	C18	9289	D10		
2344	E19	5256	C17	9290	D10		
2345	E19	6250	J7	9291	F6		
3250	C7	6251	K8	9292	F6		
3251	G19	6252	I9	9293	F6		
3252	I6	6253	I9	9294	F9		
3253	I6	6254	J17	9296	B15		
3254	C6	6255	J18	9297	C15		
3255	B6	6256	L14	9298	C17		
3256	K18	6257	M6	9301	D18		
3257	J19	6258	M15	9302	E18		
3258	I6	6259	L7	9303	D19		
3259	I6	6260	M16	9304	E19		
3260	J19	6261	M9	9305	F19		
3261	K19	6262	M17	9306	E19		
3262	J19	6263	M10	9306	E19		
3263	I19	6264	K13	9307	E16		
3266	H6	6265	L11	9308	E16		
3267	J6	6266	L13	9309	D15		
3268	G7	6267	L11	9310	E16		
3269	K6	6268	H7	9311	E16		
3270	I10	6269	I7	9312	D7		
3271	J9	6270	G9	9313	D8		
3272	J8	6271	H9	9314	D8		
3273	K10	6272	H8	9315	F8		
3274	I7	6273	J18	9316	F9		

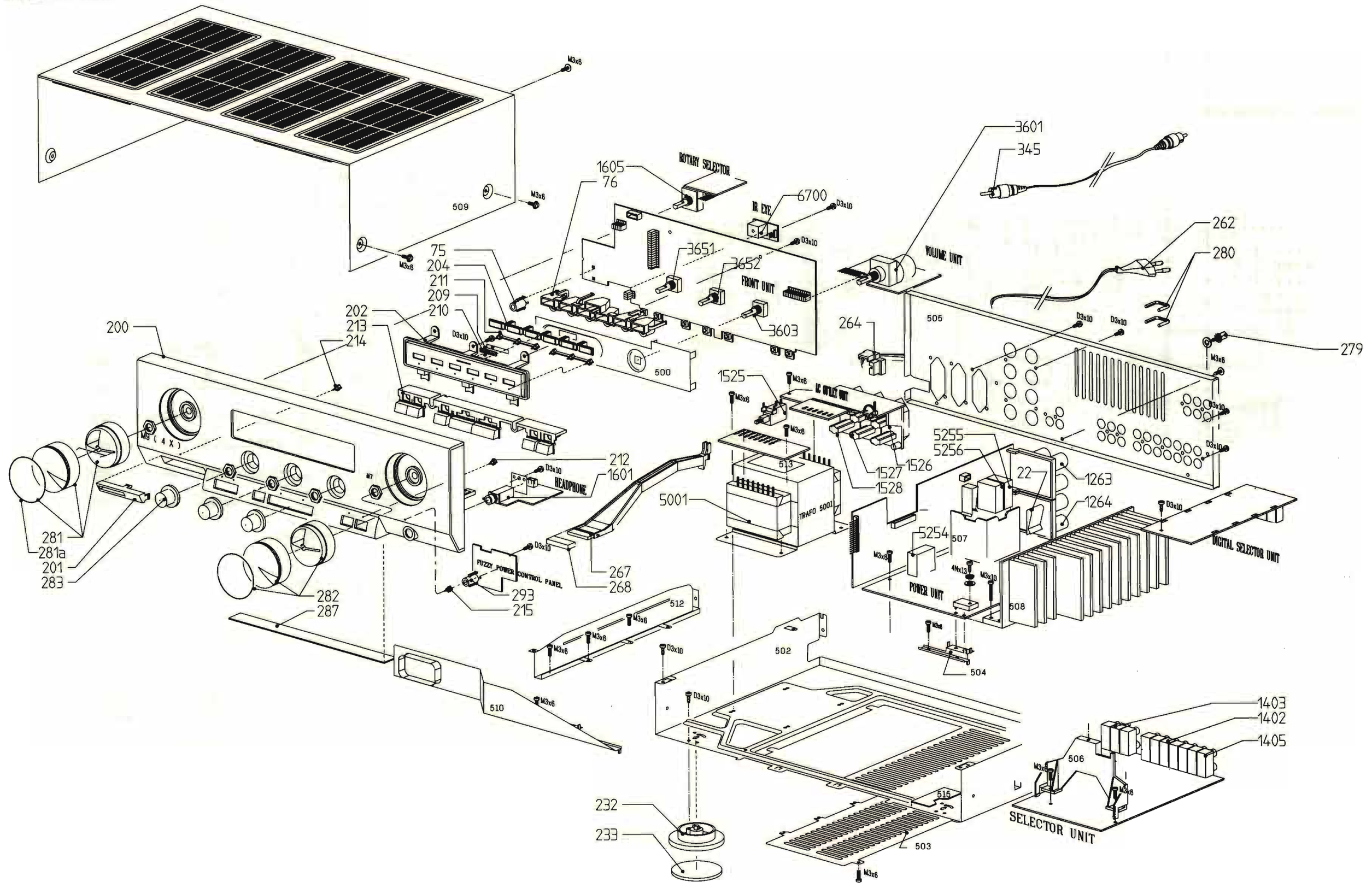
DIGITAL SELECTOR DIAGRAM

DIGITAL SELECTOR UNIT



1477 I2
1478 B18
1478 G2
1478 D2
1478 B2
2475 G2
2476 G3
2477 C2
2478 C3
2479 D2
2480 D3
2485 F12
2487 B12
2490 B15
2493 C17
2496 C17
2497 N5
2498 O5
2499 K3
2500 I3
2501 J3
2502 K4
2503 L5
2504 M6
2505 N7
2507 L7
2508 L7
2509 M8
2511 N8
2512 L3
3475 G3
3476 G3
3477 C3
3478 B3
3479 D3
3480 D3
3485 F13
3486 G13
3489 B13
3490 C13
3493 B17
3494 N4
3495 N4
3496 J3
3497 I3
3498 J3
3499 L4
3500 L5
3501 L4
3502 M5
3503 M6
3504 N6
3505 M8
3507 N8
3508 K3
5477 B16
6477 L6
6478 L6
6479 L5
6480 L6
6481 M4
6482 N6
7475 A9
7476 F13
7476 F13
7476 H14
7476 G14
7476 F14
7476 L17
7478 B13
7478 B13
7478 D14
7478 C14
7478 B14
7478 L18
7479 L3
7480 M7
9478 E6

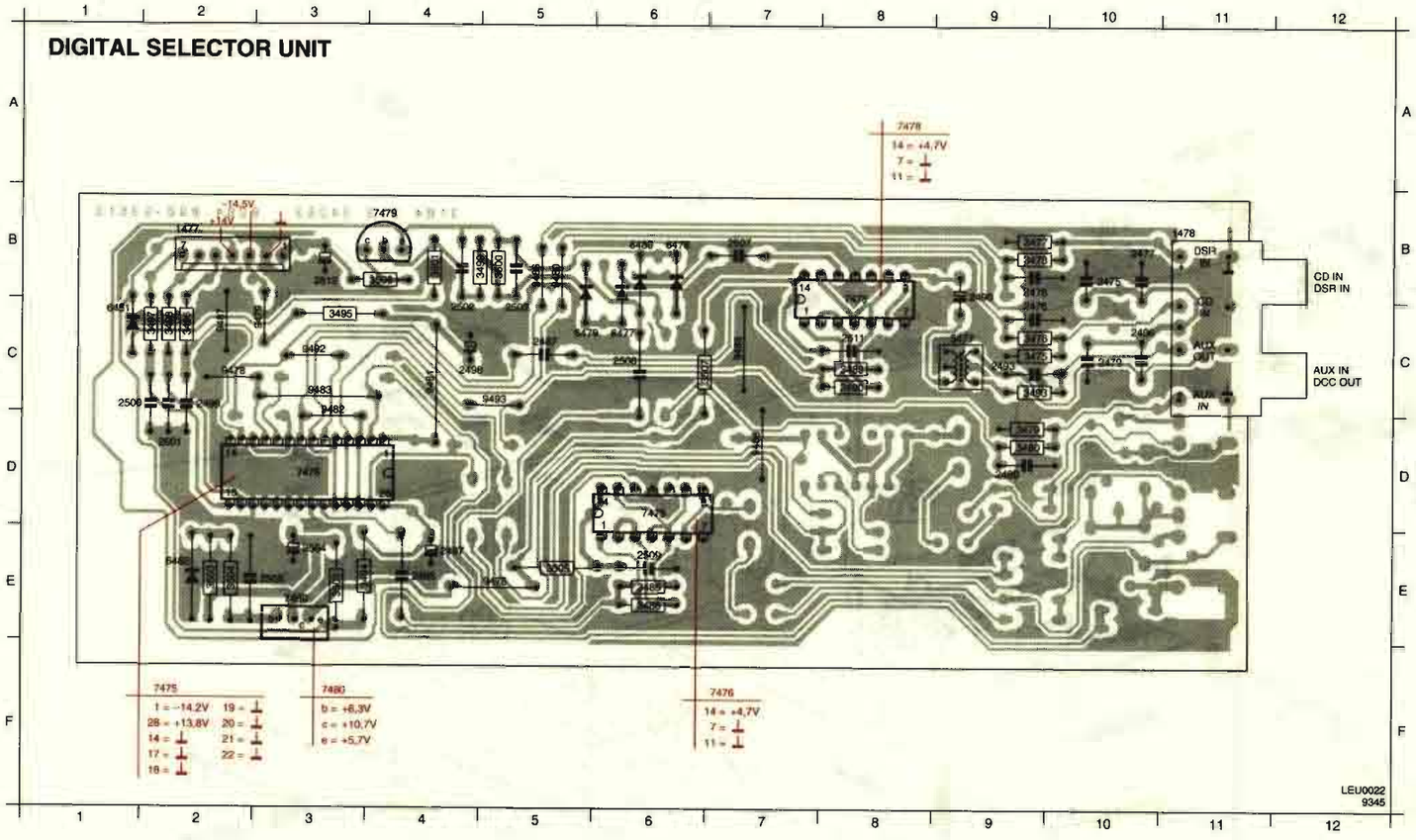
EXPLODED VIEW



DIGITAL SELECTOR PCB

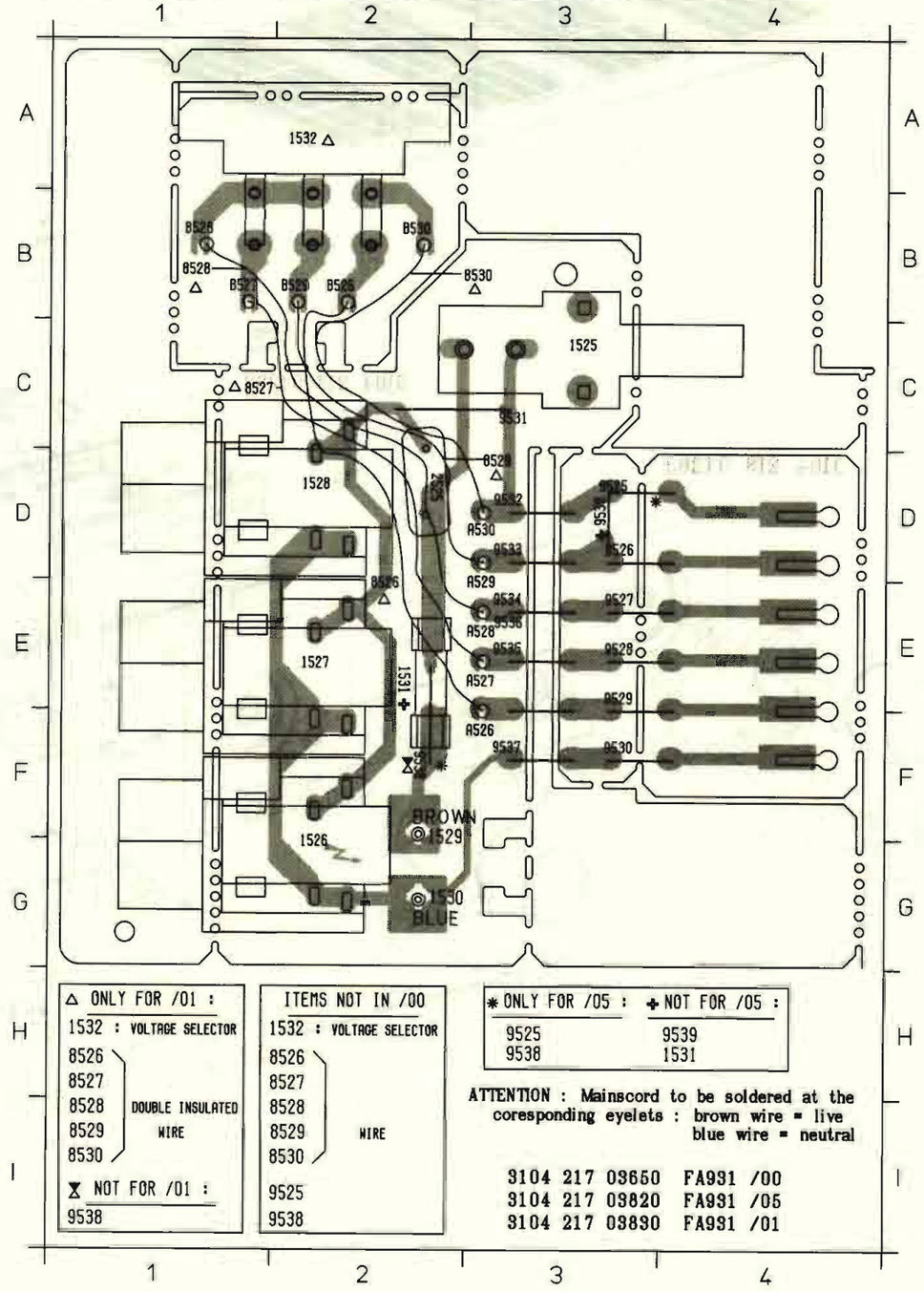
1477	B2	2478	B9	2490	B9	2499	C2	2504	E3	2511	C8	3478	B9	3489	C8	3496	C2	3501	B4	3507	C7	6479	C5	7476	D6	9478	C2	9483	C3	9492	C3
1478	B11	2479	C10	2493	C9	2500	C1	2505	E3	2512	B3	3479	D9	3490	C8	3497	C2	3502	E3	3508	B4	6480	B6	7478	C8	9479	C3	9486	B5	9493	C5
2475	B10	2480	D9	2496	C10	2501	D2	2507	B7	3475	C9	3480	D9	3493	C9	3498	C2	3503	E2	5477	C9	6481	C1	7479	B4	9480	B5	9487	C2		
2476	C9	2485	E4	2497	E4	2502	C4	2508	C6	3476	C9	3485	E6	3494	E4	3499	B5	3504	E2	6477	C6	6482	E2	7480	E3	9481	C4	9488	D7		
2477	B10	2487	C5	2498	C4	2503	C5	2509	E6	3477	B9	3486	E6	3495	C3	3500	B5	3505	E5	6478	B6	7475	D3	9476	E5	9482	D3	9489	C7		

DIGITAL SELECTOR UNIT



AC OUTLET PCB

1525	C3	1532	A2	8529	D3	9528	E3	9533	D3	9538	F2	A529	E3	B529	B2												
1526	G2	2525	D2	8530	B3	9529	E3	9534	E3	9539	D3	A530	D3	B530	B2												
1527	E2	8526	E2	9525	D3	9530	F3	9535	E3	A526	F3	B526	B2														
1528	D2	8527	C1	9526	D3	9531	C3	9536	E3	A527	E3	B527	B1														
1531	E2	8528	B1	9527	E3	9532	D3	9537	F3	A528	E3	B528	B1														



△ ONLY FOR /01 :
1532 : VOLTAGE SELECTOR
8526
8527
8528
8529
8530
DOUBLE INSULATED WIRE
⧗ NOT FOR /01 :
9538

ITEMS NOT IN /00
1532 : VOLTAGE SELECTOR
8526
8527
8528
8529
8530
WIRE
9525
9538

✱ ONLY FOR /05 :	✚ NOT FOR /05 :
9525	9539
9538	1531

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

3104 217 03650	FA931	/00
3104 217 03820	FA931	/05
3104 217 03830	FA931	/01

MECHANICAL PARTS

	4822 736 21924	I.F.U.
	4822 218 10439	RH6640/01
22	4822 492 70583	CLAMPING SPRING
75	4822 255 41247	LEDHOLDER
76	4822 466 70733	LIGHT SCREEN
200	4822 426 51714	FRONT ASSY
201	4822 450 61831	IR-WINDOW
202	4822 454 12791	PLATE ORNAMENTAL
204	4822 450 61832	WINDOW
209	4822 466 70734	DIFFUSOR
210	4822 130 91065	DIG.REFLECTOR
211	4822 380 20424	REFLECTOR
212	4822 380 20425	LED REFLECTOR
213	4822 410 61698	BUTTON ASSY
214	4822 380 20425	LED REFLECTOR
215	4822 380 20425	LED REFLECTOR
232	4822 462 41888	FOOT
233	4822 462 41887	FOOT VELT
262	4822 321 10853	MAINS CORD
264	4822 532 60948	BUSHING
267	4822 404 21194	BRACKET
268	4822 462 71808	CAP POWER BRACKET
279	4822 502 13921	PHONO GND SCREW
280	4822 268 90449	JUMPER PLUG
281	4822 410 61699	KNOB SOURCE SEL.
281A	4822 532 21449	RUBBER RING
282	4822 413 51399	VOLUME KNOP ASSY
283	4822 413 41696	KNOB ASSY
287	4822 426 60621	STRIP
293	4822 255 41247	LEDHOLDER
345	4822 321 61478	CABLE

1263	4822 290 81479	L.S. Connector
1264	4822 290 81479	L.S. Connector
1402	4822 267 31451	Pin jack
1403	4822 267 31449	Pin jack
1405	4822 267 31451	Pin jack
1525	4822 276 13224	Power switch
1526	4822 265 20594	Mains outlet
1527	4822 265 20594	Mains outlet
1528	4822 265 20594	Mains outlet
1601	4822 267 31453	Headphone Socket
1605	4822 273 10237	Rotary switch
3651	4822 101 21177	20k POTM.
3652	4822 101 21177	20k POTM.
3601	4822 101 21175	Volume assy
3603	4822 101 21176	100k POTM.
5001	4822 146 31225	Mains Trafo
5001	4822 146 31326	Trafo only/01s
5254	4822 280 70368	Relay
5255	4822 280 70368	Relay
5256	4822 280 70368	Relay
6700	4822 214 52009	IR EYE

POWER UNIT

MISCELLANEOUS

1250	4822 071 54002⚠	Fuse 4A
1251	4822 071 54002⚠	Fuse 4A
1252	4822 071 52502⚠	Fuse 2.5A
1253	4822 071 52502⚠	Fuse 2.5A
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

CAPACITORS

2250	4822 124 40244	2,2µF 20% 63V
2251	4822 124 40244	2,2µF 20% 63V
2254	4822 122 33195	100pF 10% 50V
2255	4822 122 33195	100pF 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 500V
2265	4822 122 33308	100pF 500V
2268	4822 122 10466	220pF 10% 50V
2269	4822 122 10466	220pF 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 100V
2285	4822 121 42007	100nF 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% 250V
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 42414	2200µF 20% 50V
2306	4822 124 42414	2200µF 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 42935	47nF 5% 100V
2314	4822 121 42935	47nF 5% 100V
2315	4822 121 42935	47nF 5% 100V
2316	4822 124 42367	3300µF 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 42413	4700µF 20% 80V
2327	4822 124 42413	4700µF 20% 80V
2328	4822 122 33197	1nF 10% 50V
2329	4822 124 22263	220µF 20% 25V
2330	4822 124 41334	470µF 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 33519	470pF 10% 50V
2335	4822 122 33519	470pF 10% 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

RESISTORS

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 52226	560Ω 5% 0,5W
3267	4822 116 52226	560Ω 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 52215	220Ω 5% 0,5W
3295	4822 116 52215	220Ω 5% 0,5W
3296	4822 116 52215	220Ω 5% 0,5W
3297	4822 116 52215	220Ω 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 52239	120k 5% 0,5W
3311	4822 116 52257	22k 5% 0,5W
3312	4822 116 52271	33k 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 10478▲	4Ω7 5% 0,33W
3323	4822 052 10478▲	4Ω7 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 26801	680Ω 1% 0,6W
3335	4822 050 26801	680Ω 1% 0,6W
3336	4822 050 26801	680Ω 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 12331▲	330Ω 5% 3W
3347	4822 053 12331▲	330Ω 5% 3W
3348	4822 050 21801▲	180Ω 1% 0,6W
3349	4822 050 21801▲	180Ω 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 10479▲	47Ω 5% 0,33W
3361	4822 052 10479▲	47Ω 5% 0,33W
3366	4822 052 10188▲	1Ω8 5% 0,33W
3367	4822 052 10188▲	1Ω8 5% 0,33W
3368	4822 053 11338▲	3Ω3 5% 2W
3369	4822 053 11338▲	3Ω3 5% 2W
3370	4822 116 52257	22k 5% 0,5W
3371	4822 116 52257	22k 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 52276	3k9 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 70368▲	Relay
5255	4822 280 70368▲	Relay
5256	4822 280 70368▲	Relay

DIODES

6250	4822 130 61219	BZX79-C10
6251	4822 130 61219	BZX79-C10
6252	4822 130 61219	BZX79-C10
6253	4822 130 61219	BZX79-C10
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▲	MC78M05CT
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 40937	BC548B
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

1478	4822 267 31452	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
2485	4822 122 10466	220pF 10% 50V
2487	4822 122 10466	220pF 10% 50V
2490	4822 124 40435	10µF 20% 50V
2493	4822 122 33195	100pF 10% 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
2503	4822 126 11585	22nF +80-20% 25V
2504	4822 124 40433	47µF 20% 25V
2505	4822 126 11585	22nF +80-20% 25V
2507	4822 126 12787	330pF 10% 50V
2508	4822 126 12787	330pF 10% 50V
2509	4822 126 11585	22nF +80-20% 25V
2511	4822 126 11585	22nF +80-20% 25V
2512	4822 124 40246	4,7µF 20% 63V

RESISTORS

3475	4822 116 52202	82Ω 5% 0,5W
3476	4822 116 52176	10Ω 5% 0,5W
3477	4822 116 52202	82Ω 5% 0,5W
3478	4822 116 52176	10Ω 5% 0,5W
3479	4822 116 52202	82Ω 5% 0,5W
3480	4822 116 52176	10Ω 5% 0,5W
3485	4822 116 52269	3k3 5% 0,5W
3486	4822 050 11002	1k 1% 0,4W
3489	4822 116 52269	3k3 5% 0,5W
3490	4822 050 11002	1k 1% 0,4W
3493	4822 116 52202	82Ω 5% 0,5W
3494	4822 050 22701	270Ω 1% 0,6W
3495	4822 050 22701	270Ω 1% 0,6W
3496	4822 050 11002	1k 1% 0,4W
3497	4822 050 11002	1k 1% 0,4W
3498	4822 050 11002	1k 1% 0,4W
3499	4822 116 52296	6k8 5% 0,5W
3500	4822 116 52233	10k 5% 0,5W
3501	4822 116 52233	10k 5% 0,5W
3502	4822 052 10479▲	47Ω 5% 0,33W
3503	4822 050 11002	1k 1% 0,4W
3504	4822 116 52202	82Ω 5% 0,5W
3505	4822 052 10479▲	47Ω 5% 0,33W
3507	4822 052 10479▲	47Ω 5% 0,33W
3508	4822 050 11002	1k 1% 0,4W

COIL

5477	4822 157 70601	Coil 100µH

DIODES

6477	4822 130 30621	1N4148
6478	4822 130 30621	1N4148
6479	4822 130 30621	1N4148
6480	4822 130 30621	1N4148
6481	4822 130 34268	BZX79-C16
6482	4822 130 34167	BZX79-C6V2

TRANSISTORS & IC's

7475	4822 209 71339	TC9164AN
7476	5322 209 11323	N74HCU04N
7478	5322 209 11323	N74HCU04N
7479	4822 130 44197	BC558B
7480	4822 130 40823	BD135

AC OUTLET

1525	4822 276 13224▲	Power switch
1526	4822 265 20594▲	Mains outlet
1527	4822 265 20594▲	Mains outlet
1528	4822 265 20594▲	Mains outlet
1531	5322 253 30373▲	Fuse 2A
1531	4822 070 34002▲	Fuse 4A only/01S
1532	4822 272 10315▲	Volt.sel. only/01S
2525	4822 126 12224▲	4,7nF 20% 125V

SELECTOR and FRONT UNIT

MISCELLANEOUS

75	4822 255 41247	Ledholder
76	4822 466 70733	Light screen
1401	4822 267 31451	Pin jack
1402	4822 267 31451	Pin jack
1403	4822 267 31449	Pin jack
1601	4822 267 31453	Socket
1605	4822 273 10237	Rotary switch
1606	4822 276 13213	Tact switch
1607	4822 276 13213	Tact switch
1608	4822 276 13213	Tact switch
1609	4822 276 13213	Tact switch
1610	4822 276 13213	Tact switch
1611	4822 276 13213	Tact switch
1612	4822 276 13213	Tact switch
1620	4822 134 41102	Lamp 12V 75mA
1621	4822 134 41102	Lamp 12V 75mA
1622	4822 134 41102	Lamp 12V 75mA
1623	4822 134 41102	Lamp 12V 75mA
1624	4822 134 41102	Lamp 12V 75mA
1625	4822 134 41102	Lamp 12V 75mA
1626	4822 134 41102	Lamp 12V 75mA
1710	4822 265 41324	Connector 11P
1711	4822 267 51238	Connector 16P
1712	4822 267 51237	Connector 11P
1714	4822 267 51161	Connector 6P

532.21 449 Rubber ring voor knop.

CAPACITORS

2401	4822 122 33195	100pF 10% 50V
2402	4822 122 33195	100pF 10% 50V
2403	4822 122 33195	100pF 10% 50V
2404	4822 122 33195	100pF 10% 50V
2405	4822 124 40242	1µF 20% 63V
2406	4822 124 40242	1µF 20% 63V
2407	4822 122 33197	1nF 10% 50V
2408	4822 122 33197	1nF 10% 50V
2409	4822 124 23176	22µF 20% 16V
2410	4822 124 23176	22µF 20% 16V
2411	4822 121 51387	10nF 20% 16V
2412	4822 121 51387	10nF 20% 16V
2413	4822 126 12148	2,7nF 10%
2414	4822 126 12148	2,7nF 10%
2415	4822 124 40435	10µF 20% 50V
2416	4822 124 40435	10µF 20% 50V
2417	4822 122 33195	100pF 10% 50V
2418	4822 122 33195	100pF 10% 50V
2419	4822 126 11585	22nF +80-20% 25V
2420	4822 126 11585	22nF +80-20% 25V
2421	4822 124 40433	47µF 20% 25V
2422	4822 124 40433	47µF 20% 25V
2423	4822 122 33195	100pF 10% 50V
2424	4822 122 33195	100pF 10% 50V
2425	4822 122 33195	100pF 10% 50V
2426	4822 122 33195	100pF 10% 50V
2427	4822 122 33195	100pF 10% 50V
2428	4822 122 33195	100pF 10% 50V
2429	4822 122 33195	100pF 10% 50V
2430	4822 122 33195	100pF 10% 50V
2431	4822 122 33195	100pF 10% 50V
2432	4822 122 33195	100pF 10% 50V
2433	4822 122 33195	100pF 10% 50V
2434	4822 122 33195	100pF 10% 50V
2435	4822 122 33195	100pF 10% 50V
2436	4822 122 33195	100pF 10% 50V
2437	4822 122 33195	100pF 10% 50V
2438	4822 122 33195	100pF 10% 50V
2439	4822 122 33195	100pF 10% 50V
2440	4822 122 33195	100pF 10% 50V
2441	4822 122 33195	100pF 10% 50V
2442	4822 122 33195	100pF 10% 50V
2443	4822 126 11585	22nF +80-20% 25V
2444	4822 126 11585	22nF +80-20% 25V
2445	4822 124 22347	47µF 20% 50V
2446	4822 124 23624	47µF 20% 16V
2447	4822 126 11585	22nF +80-20% 25V
2448	4822 126 11585	22nF +80-20% 25V
2449	4822 126 11585	22nF +80-20% 25V
2450	4822 126 11585	22nF +80-20% 25V
2451	4822 124 22347	47µF 20% 50V
2452	4822 124 40433	47µF 20% 25V
2453	4822 126 11585	22nF +80-20% 25V
2454	4822 126 11585	22nF +80-20% 25V
2464	4822 126 11005	4,7nF 20% 50V
2465	4822 126 11005	4,7nF 20% 50V
2466	4822 126 11005	4,7nF 20% 50V
2467	4822 126 11005	4,7nF 20% 50V
2468	4822 126 11005	4,7nF 20% 50V

2469	4822 126 11005	4,7nF 20% 50V
2470	4822 126 11005	4,7nF 20% 50V
2471	4822 126 11005	4,7nF 20% 50V
2472	4822 126 11005	4,7nF 20% 50V
2473	4822 126 11005	4,7nF 20% 50V
2474	4822 126 11005	4,7nF 20% 50V
2600	4822 124 40435	10µF 20% 50V
2601	4822 121 41754	82nF 10% 100V
2602	4822 121 41754	82nF 10% 100V
2603	4822 124 23179	10µF 20% 16V
2604	4822 124 23179	10µF 20% 16V
2605	4822 122 33848	47pF 5%SL 50V
2606	4822 122 33848	47pF 5%SL 50V
2607	4822 122 33195	100pF 10% 50V
2608	4822 122 33195	100pF 10% 50V
2609	4822 122 33195	100pF 10% 50V
2610	4822 122 33195	100pF 10% 50V
2611	4822 124 23176	22µF 20% 16V
2612	4822 124 23176	22µF 20% 16V
2613	4822 124 42368	22µF 35V
2614	4822 124 42368	22µF 35V
2615	4822 126 11585	22nF +80-20% 25V
2616	4822 126 11585	22nF +80-20% 25V
2617	4822 121 51387	10nF 20% 16V
2618	4822 124 40242	1µF 20% 63V
2619	4822 121 51387	10nF 20% 16V
2621	4822 121 51409	120nF 5% 63V
2622	4822 121 51409	120nF 5% 63V
2623	4822 121 51409	120nF 5% 63V
2624	4822 121 51409	120nF 5% 63V
2625	4822 126 11714	4,7nF 20%
2626	4822 126 11714	4,7nF 20%
2627	4822 124 41969	1µF 20% 50V
2628	4822 124 41969	1µF 20% 50V
2629	4822 122 33195	100pF 10% 50V
2630	4822 122 33195	100pF 10% 50V
2631	4822 122 10573	56pF 5% 50V
2632	4822 122 10573	56pF 5% 50V
2633	4822 124 23176	22µF 20% 16V
2634	4822 124 23176	22µF 20% 16V
2635	4822 126 11585	22nF +80-20% 25V
2636	4822 126 11585	22nF +80-20% 25V
2637	4822 124 42368	22µF 35V
2638	4822 124 42368	22µF 35V
2639	4822 126 11585	22nF +80-20% 25V
2640	4822 121 42408	220nF 5% 63V
2641	4822 124 22347	47µF 20% 50V
2642	4822 122 10459	560pF 10% 50V
2643	4822 124 40246	4,7µF 20% 63V
2644	4822 124 40242	1µF 20% 63V
2661	4822 126 11585	22nF +80-20% 25V
2662	4822 126 11585	22nF +80-20% 25V
2663	4822 126 11714	4,7nF 20%
2664	4822 121 42408	220nF 5% 63V
2667	4822 124 23176	22µF 20% 16V
2668	4822 121 51412	560nF 5% 63V
2669	5322 121 42498	680nF 5% 63V
2670	5322 121 42498	680nF 5% 63V
2672	4822 126 11714	4,7nF 20%
2685	4822 124 40435	10µF 20% 50V
2686	4822 126 11585	22nF +80-20% 25V
2687	4822 124 40244	2,2µF 20% 63V
2688	4822 121 41853	100nF 10% 100V

RESISTORS

3401	4822 116 52222	390Ω 5% 0,5W
3402	4822 116 52222	390Ω 5% 0,5W
3403	4822 116 52272	330k 5% 0,5W
3404	4822 116 52272	330k 5% 0,5W
3405	4822 116 52291	56k 5% 0,5W
3406	4822 116 52291	56k 5% 0,5W
3407	4822 116 52222	390Ω 5% 0,5W
3408	4822 116 52222	390Ω 5% 0,5W
3409	4822 116 52175	100Ω 5% 0,5W
3410	4822 116 52175	100Ω 5% 0,5W
3411	4822 116 52222	390Ω 5% 0,5W
3412	4822 116 52222	390Ω 5% 0,5W
3413	4822 116 52272	330k 5% 0,5W
3414	4822 116 52272	330k 5% 0,5W
3415	4822 116 52264	27k 5% 0,5W
3416	4822 116 52264	27k 5% 0,5W
3417	4822 116 52175	100Ω 5% 0,5W
3418	4822 116 52175	100Ω 5% 0,5W
3419	4822 116 52234	100k 5% 0,5W
3420	4822 116 52234	100k 5% 0,5W
3421	4822 116 52217	270Ω 5% 0,5W
3422	4822 116 52217	270Ω 5% 0,5W
3423	4822 050 11002	1k 1% 0,4W
3424	4822 050 11002	1k 1% 0,4W
3425	4822 050 11002	1k 1% 0,4W
3426	4822 050 11002	1k 1% 0,4W
3427	4822 116 52175	100Ω 5% 0,5W
3428	4822 116 52175	100Ω 5% 0,5W
3429	4822 116 52175	100Ω 5% 0,5W
3430	4822 116 52175	100Ω 5% 0,5W
3431	4822 116 52175	100Ω 5% 0,5W
3432	4822 116 52175	100Ω 5% 0,5W
3433	4822 116 52175	100Ω 5% 0,5W
3434	4822 116 52175	100Ω 5% 0,5W
3435	4822 116 52175	100Ω 5% 0,5W
3436	4822 116 52175	100Ω 5% 0,5W
3437	4822 116 52175	100Ω 5% 0,5W
3438	4822 116 52175	100Ω 5% 0,5W
3439	4822 116 52175	100Ω 5% 0,5W
3440	4822 116 52175	100Ω 5% 0,5W

3441	4822 116 52175	100Ω 5% 0,5W
3442	4822 116 52175	100Ω 5% 0,5W
3443	4822 116 52217	270Ω 5% 0,5W
3444	4822 116 52217	270Ω 5% 0,5W
3445	4822 116 52217	270Ω 5% 0,5W
3446	4822 116 52217	270Ω 5% 0,5W
3447	4822 116 52269	3k3 5% 0,5W
3448	4822 116 52269	3k3 5% 0,5W
3455	4822 116 52202	82Ω 5% 0,5W
3600	4822 116 52283	4k7 5% 0,5W
3601	4822 101 21175	50k POTM.
3603	4822 101 21176	100k POTM.
3605	4822 116 52289	5k6 5% 0,5W
3606	4822 116 52289	5k6 5% 0,5W
3607	4822 116 52284	47k 5% 0,5W
3608	4822 116 52284	47k 5% 0,5W
3609	4822 050 11002	1k 1% 0,4W
3610	4822 050 11002	1k 1% 0,4W
3611	4822 116 52234	100k 5% 0,5W
3612	4822 116 52234	100k 5% 0,5W
3613	4822 050 11002	1k 1% 0,4W
3614	4822 050 11002	1k 1% 0,4W
3615	4822 050 11002	1k 1% 0,4W
3616	4822 050 11002	1k 1% 0,4W
3617	4822 116 52256	2k2 5% 0,5W
3618	4822 116 52256	2k2 5% 0,5W
3619	4822 052 10479▲	47Ω 5% 0,33W
3620	4822 052 10479▲	47Ω 5% 0,33W
3621	4822 116 52175	100Ω 5% 0,5W
3622	4822 116 52175	100Ω 5% 0,5W
3623	4822 116 52283	4k7 5% 0,5W
3624	4822 116 52283	4k7 5% 0,5W
3625	4822 116 52226	560Ω 5% 0,5W
3626	4822 116 52226	560Ω 5% 0,5W
3627	4822 116 52283	4k7 5% 0,5W
3628	4822 116 52283	4k7 5% 0,5W
3629	4822 116 52226	560Ω 5% 0,5W
3630	4822 116 52226	560Ω 5% 0,5W
3631	4822 116 52256	2k2 5% 0,5W
3632	4822 116 52256	2k2 5% 0,5W
3637	4822 050 11002	1k 1% 0,4W
3638	4822 050 11002	1k 1% 0,4W
3639	4822 116 52234	100k 5% 0,5W
3640	4822 116 52224	470Ω 5% 0,5W
3641	4822 116 52284	47k 5% 0,5W
3645	4822 116 52202	82Ω 5% 0,5W
3646	4822 116 52202	82Ω 5% 0,5W
3647	4822 116 52283	4k7 5% 0,5W
3648	4822 116 52283	4k7 5% 0,5W
3649	4822 116 52249	1k8 5% 0,5W
3650	4822 116 52249	1k8 5% 0,5W
3651	4822 101 21177	20k POTM.
3652	4822 101 21177	20k POTM.
3653	4822 116 52283	4k7 5% 0,5W
3654	4822 116 52283	4k7 5% 0,5W
3655	4822 116 52249	1k8 5% 0,5W
3656	4822 116 52249	1k8 5% 0,5W
3657	4822 116 52213	180Ω 5% 0,5W
3658	4822 116 52213	180Ω 5% 0,5W
3659	4822 116 52175	100Ω 5% 0,5W
3660	4822 116 52175	100Ω 5% 0,5W
3661	4822 116 52292	560k 5% 0,5W
3662	4822 116 52292	560k 5% 0,5W
3665	4822 052 10479▲	47Ω 5% 0,33W
3666	4822 052 10479▲	47Ω 5% 0,33W
3667	4822 116 52289	5k6 5% 0,5W
3668	4822 116 52289	5k6 5% 0,5W
3669	4822 050 21005	1M 1% 0,6W
3670	4822 116 52233	10k 5% 0,5W
3671	4822 116 52197	56Ω 5% 0,5W
3672	4822 116 52233	10k 5% 0,5W
3673	4822 050 21005	1M 1% 0,6W
3674	4822 050 21005	1M 1% 0,6W
3675	4822 116 52222	390Ω 5% 0,5W
3676	4822 116 52249	1k8 5% 0,5W
3677	4822 116 52233	10k 5% 0,5W
3678	4822 052 10228▲	2Ω2 5% 0,33W
3679	4822 053 11159▲	15Ω 5% 2W
3680	4822 116 52269	3k3 5% 0,5W
3685	4822 052 10109▲	10Ω 5% 0,33W
3686	4822 050 21005	1M 1% 0,6W
3687	4822 116 52252	180k 5% 0,5W
3688	4822 116 52233	10k 5% 0,5W
3689	4822 116 52283	4k7 5% 0,5W
3690	4822 116 52269	3k3 5% 0,5W
3691	4822 116 52249	1k8 5% 0,5W
3692	4822 116 52252	180k 5% 0,5W
3693	4822 052 10478▲	4Ω7 5% 0,33W
3696	4822 116 52217	270Ω 5% 0,5W
3697	4822 116 52217	270Ω 5% 0,5W
3698	4822 116 52217	270Ω 5% 0,5W
3699	4822 116 52217	270Ω 5% 0,5W
3700	4822 116 52217	270Ω 5% 0,5W
3701	4822 116 52217	270Ω 5% 0,5W
3702	4822 116 52217	270Ω 5% 0,5W
3703	4822 116 52217	270Ω 5% 0,5W
3704	4822 116 52215	220Ω 5% 0,5W
3705	4822 050 11002	1k 1% 0,4W
3706	4822 050 11002	1k 1% 0,4W
3708	4822 050 11002	1k 1% 0,4W
3709	4822 050 11002	1k 1% 0,4W
3710	4822 050 11002	1k 1% 0,4W
3711	4822 050 11002	1k 1% 0,4W
3714	4822 050 11002	1k 1% 0,4W
3716	4822 116 52256	2k2 5% 0,5W
3717	4822 116 52256	2k2 5% 0,5W
3718	4822 116 52256	2k2 5% 0,5W
3719	4822 116 52256	2k2 5% 0,5W

3720	4822 116 52256	2k2 5% 0,5W
3721	4822 116 52256	2k2 5% 0,5W
3722	4822 050 11002	1k 1% 0,4W
3724	4822 116 52233	10k 5% 0,5W
3726	4822 116 52233	10k 5% 0,5W
3728	4822 116 52251	18k 5% 0,5W
3730	4822 116 52264	27k 5% 0,5W
3731	4822 116 52264	27k 5% 0,5W
3732	4822 116 52264	27k 5% 0,5W
3733	4822 116 52264	27k 5% 0,5W
3734	4822 116 52264	27k 5% 0,5W
3739	4822 116 52284	47k 5% 0,5W
3740	4822 116 52284	47k 5% 0,5W
3741	4822 116 52284	47k 5% 0,5W
3742	4822 116 52284	47k 5% 0,5W
3744	4822 116 52257	22k 5% 0,5W
3745	4822 116 52235	1M 5% 0,5W
3746	4822 116 52284	47k 5% 0,5W
3747	4822 116 52233	10k 5% 0,5W
3750	4822 116 52283	4k7 5% 0,5W
3751	4822 116 52283	4k7 5% 0,5W
3752	4822 116 52283	4k7 5% 0,5W
3753	4822 116 52283	4k7 5% 0,5W

COILS

5601	4822 101 21178	Coil 120µH
5602	4822 101 21178	Coil 120µH
5605	4822 242 72527	CST 4MHz

DIODES

6401	4822 130 31253	BZX79-C2V4
6601	4822 130 30621	1N4148
6603	4822 130 30621	1N4148
6604	4822 130 34278	BZX79-C6V8
6605	4822 130 34278	BZX79-C6V8
6606	4822 130 30621	1N4148
6607	4822 130 30621	1N4148
6608	4822 130 30621	1N4148
6609	4822 130 34499	BZX79-C20
6610	5322 130 30684	1N4002GP
6611	4822 130 30621	1N4148
6612	4822 130 34233	BZX79-C5V1
6613	4822 130 31253	BZX79-C2V4
6614	4822 130 34167	BZX79-C6V2
6615	4822 130 34174	BZX79-C4V7
6616	4822 130 31253	BZX79-C2V4
6617	4822 130 34499	BZX79-C20
6620	4822 130 31253	BZX79-C2V4
6621	4822 130 31253	BZX79-C2V4
6629	4822 130 30621	1N4148
6630	4822 130 30621	1N4148
6632	4822 130 30621	1N4148
6633	4822 130 30621	1N4148
6634	4822 130 30621	1N4148
6635	4822 130 82978	LED
6636	4822 130 82978	LED
6637	4822 130 82978	LED
6638	4822 130 82978	LED
6639	4822 130 82978	LED
6640	4822 130 82978	LED
6641	4822 130 82978	LED
6642	4822 130 82978	LED
6643	4822 130 82978	LED
6644	4822 130 82978	LED
6645	4822 130 82978	LED
6646	4822 130 82978	LED
6647	4822 130 82978	LED
6648	4822 130 82978	LED
6685	4822 130 34197	BZX79-C12
6686	4822 130 30621	1N4148
6687	4822 130 82978	LED
6690	5322 130 34834	BZX79-C3V6
6691	5322 130 34834	BZX79-C3V6
6692	5322 130 34834	BZX79-C3V6
6693	5322 130 34834	BZX79-C3V6
6700	4822 214 52009	GP1U58XP
6701	4822 130 30621	1N4148
6702	4822 130 30621	1N4148
6703	4822 130 30621	1N4148
6704	4822 130 30621	1N4148
6705	4822 130 30621	1N4148
6706	4822 130 30621	1N4148

TRANSISTORS & IC's

7401	4822 209 73064	NJM2068D-D
7402	4822 209 72748	LC7821
7403	4822 209 72748	LC7821
7601	4822 130 40937	BC548B
7602	4822 130 40937	BC548B
7603	4822 209 30941	NJM2068D
7604	4822 130 40937	BC548B
7605	4822 209 10263	HEF4052BP
7607	4822 130 40937	BC548B
7608	4822 130 40937	BC548B
7609	4822 209 83274	NJM4560D
7610	4822 209 63667	BA6229
7611	5322 130 42216	TL081CP
7612	4822 130 44197	BC558B
7631	4822 130 40937	BC548B
7633	4822 130 40937	BC548B
7636	4822 130 40937	BC548B
7639	4822 130 44197	BC558B

7640	4822 130 40937	BC548B
7641	4822 130 40937	BC548B
7642	4822 130 40937	BC548B
7643	4822 130 40937	BC548B
7644	4822 130 40937	BC548B
7645	4822 130 40937	BC548B
7646	4822 130 40937	BC548B
7647	5322 209 11532	PC74HC4094P
7648	5322 209 11532	PC74HC4094P
7649	4822 209 31168	ST93C06B1
7650	4822 209 32414	MC68HC05C8
7685	4822 209 10264	HEF4069UBP
5001	4822 146 31225▲	Mains Trafo
5001	4822 146 31326▲	Trafo only/01s