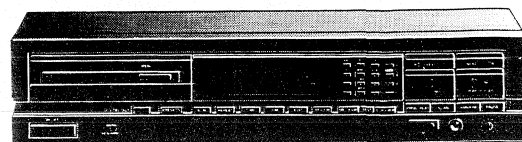


Service
Service
Service



45 047 A11

Service Manual

COMPACT
disc
DIGITAL AUDIO

CONTENTS

- 1 Technical specifications
- 2 Controls and connections
- 3 Servicing hints and tools
Disassembly of the cabinet and loading
Exploded view
- 4 Faultfinding tree
Specifications measurements
- 5 Wiring diagram
Power supply
Variable headphone
Blockdiagram
Servo + decoding panel
Audio panel
Control and display panel
Microprocessor + FTS panel
- 6 Partslist
- 7 Modifications

(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.

(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.

(I) Varol

Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen.

(I) Varning!

Osnyig laserstrålning när denna del är öppnad och spärren är urkopplad. Betrakta ej strålen.

(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.

CLASS 1
LASER PRODUCT

3122 110 03420

Documentation Technique Service Dokumentation Documentazione di Servizio Huolto-Ohje Manual de Servicio Manual de Servicio



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

Subject to modification
4822 725 22555

Printed in The Netherlands
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PHILIPS

Published by Service
Consumer Electronics

CS 32 383

TECHNICAL SPECIFICATIONS**General**

- | | |
|-------------------------------------|------------------------------------|
| 1. Mains voltage /00B | : 220V (+/-10%) |
| /05B | : 240V (+/-10%) |
| /06B | : 117V (+/-10%) |
| 2. Mains frequency /00B /05B | : 50Hz |
| /06B | : 60Hz |
| 3. Mains voltage selection | : See Circuit Diagram Power Supply |
| 4. Power consumption mains.operated | : 15W |

External RC-5 connection

Specification: V-in Low: from -2,0 V to +1,6 V
 V-in High: from +3 V to +7,5 V
 R-in: from 47 k to 68 k

Line output

- | | |
|--|--|
| 1. Number of channels | : 2 |
| 2. Output voltage | : 2 Vrms +/- 2 dB |
| 3. Unbalance Left-Right | : max. 0,6 dB |
| 4. Output resistance | : 200 Ohm |
| 5. Amplitude linearity | : max. +/- 0,1 dB from 20 Hz to 20 kHz |
| 6. Phase non-linearity | : max. +/- 0,5° from 20 Hz to 20 kHz |
| 7. Signal to noise ratio | : min 90 dB from 20 Hz to 20 kHz |
| 8. Dynamic range | : min 94 dB from 20 Hz to 20 kHz |
| 9. Total harmonic distortion + noise | : min -86 dB from 20 Hz to 20 kHz |
| 10. Intermodulation distortion | : min -86 dB from 20 Hz to 20 kHz |
| 11. Out-band attenuation | : min 60 dB |
| 12. Channel separation | : min 90 dB from 20 Hz to 20 kHz |
| 13. Muting during random access | : min 90 dB from 20 Hz to 20 kHz |
| 14. Automatic switched de-emphasis with time constants | 15/50 us |

Headphone (fixed)

- | | |
|--------------------------------------|---|
| 1. Output voltage | : Max. 7,5 Vrms +/- 2 dB |
| 2. Unbalance Left-right | : Max. +/- 0,2 dB |
| 3. Output resistance | : 150 Ohm |
| 4. Load impedance range | : 32 Ohm to 600 Ohm |
| 5. Output power | : 0 to 50 mW into 32 Ohm load
0 to 90 mW into 150 Ohm load
0 to 50 mW into 600 Ohm load |
| 6. Signal to noise ratio | : Min 93 dB from 20 Hz to 20 kHz |
| 7. Dynamic range | : Min 90 dB from 20 Hz to 20 kHz |
| 8. Total harmonic distortion + noise | : Min 86 dB from 20 Hz to 20kHz |
| 9. Intermodulation distortion | : Min 86 dB from 20 Hz to 20 kHz |
| 10. Channel separation | : min 75 dB from 20 Hz to 20 kHz |

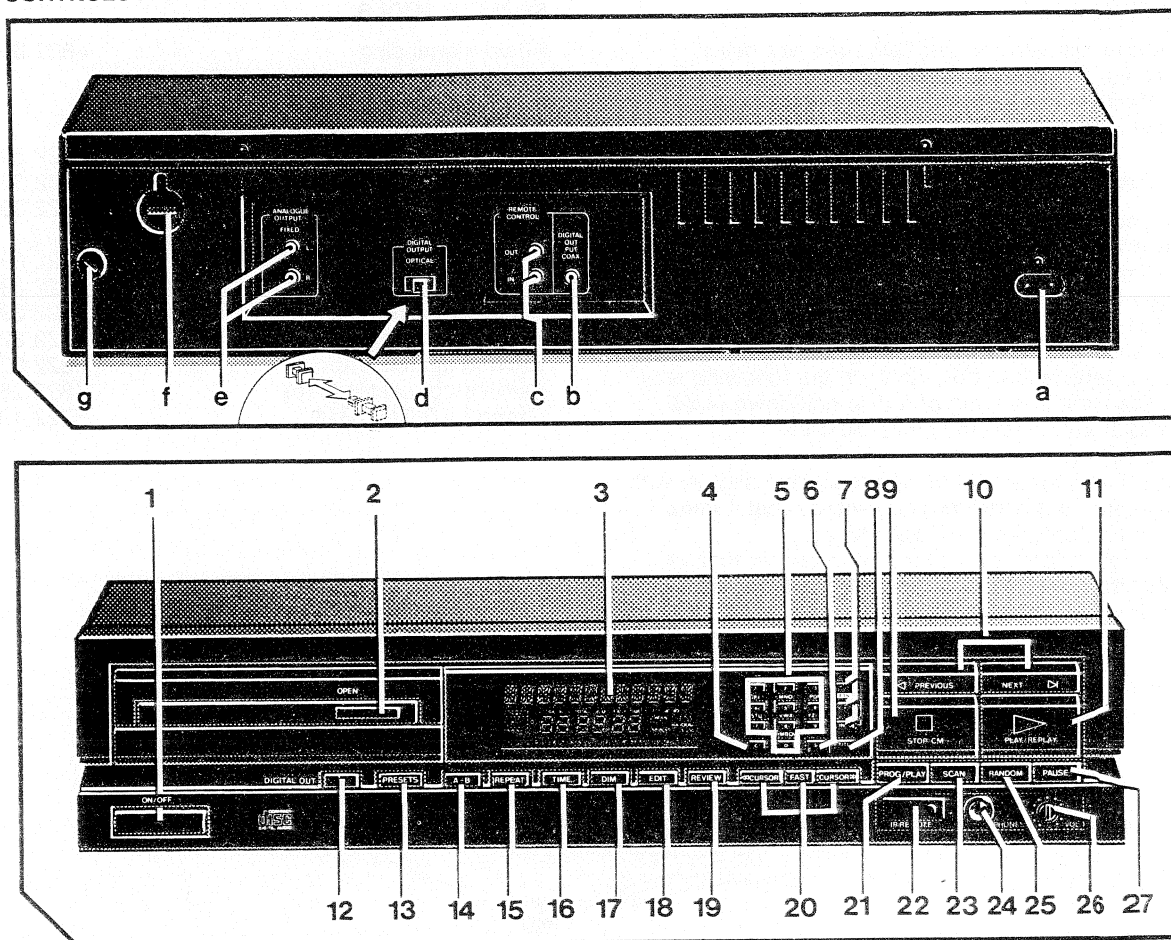
Dimensions and weight

- | | |
|---|-------------------------------|
| 1. Place and height of feet acc. to Philips specification | |
| 2. Apparatus tray closed | WxDxH : 420 x 280 x 90/104 mm |
| 3. Apparatus tray open | WxDxH : 420 x 423 x 90/104 mm |
| 4. Weight | : 4,0 kg |

Optical read-out system

- | | |
|------------------------|------------------------|
| 1. Laser type | : Semiconductor AlGaAs |
| 2. Wavelength | : 780 nm +/-20 nm |
| 3. Light output (c.w.) | : 0,4 mW +/-0,04 mW |

CONTROLS AND CONNECTIONS



45 048 A11

OPERATION

EXPLANATION OF KEYS

- 1 On/Off
- 2 Open
- 3 Display
- 4 C(lear)
- 5 Digit/alphabet keys
- 6 S(tore)
- 7 FTS
- 8 Info
- 9 Title
- 10 Previous and next
- 11 Play/Replay
- 12 Digital out
- 13 Presets
- 14 'A-B'
- 15 Repeat
- 16 Time
- 17 DIM
- 18 Edit
- 19 Review
- 20 << Cursor and Cursor >>
- 21 Prog(ram)/play
- 22 IR remote
- 23 Scan
- 24 Phones
- 25 Random
- 26 Vol(ume)
- 27 Pause

CONNECTIONS

- a. Mains Lead
- b. Digital output coax
- c. Remote control
- d. Digital output optical
- e. Analogue output fixed
- f. Voltage selector
- g. Mains fuse holder

SERVICING HINTS AND TOOLS

3. SERVICING HINTS

When the tray mechanism and CDM-unit has been disassembled the player can be prepared for measurements by bridging the "tray detection" switch SK2 on the main panel.

Service disc hold-down

The disc should always rest properly on the turntable. To achieve this a disc hold-down has been mounted in a bracket of the tray mechanism.

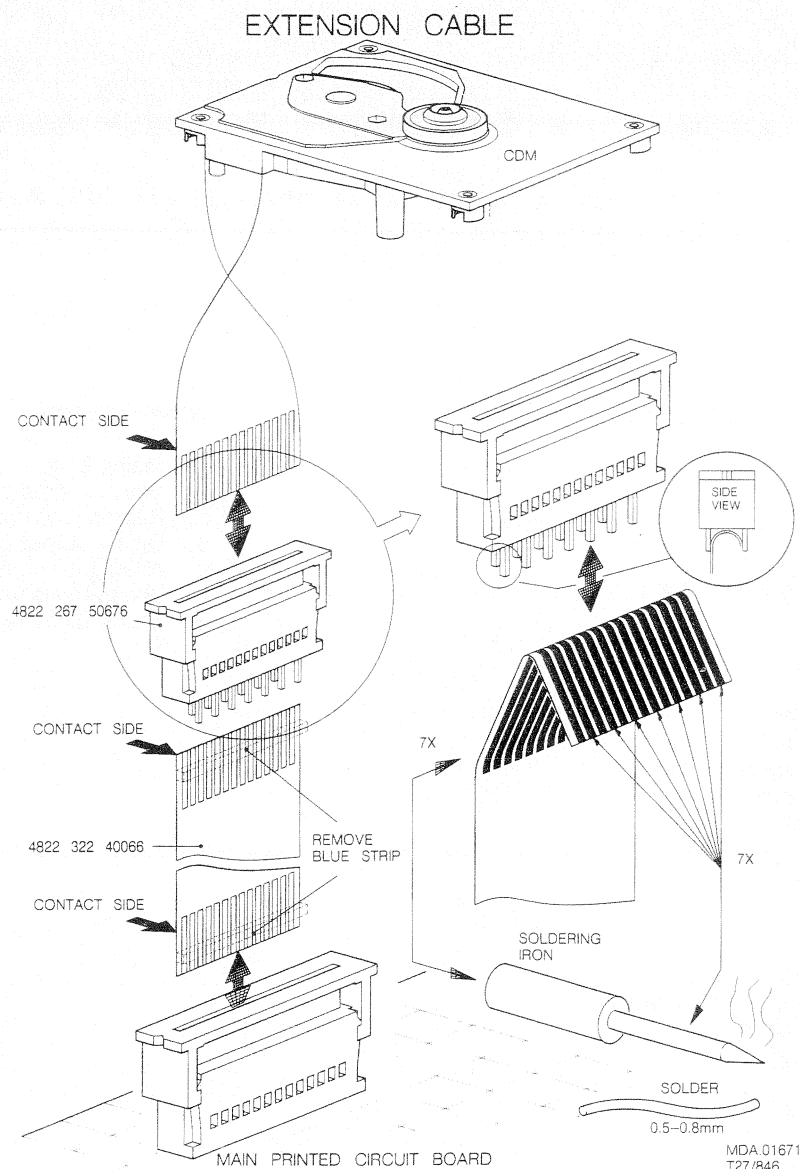
If the tray mechanism has to be disassembled for servicing, a separate disc hold-down should be used. For a service disc hold-down see the figure below.

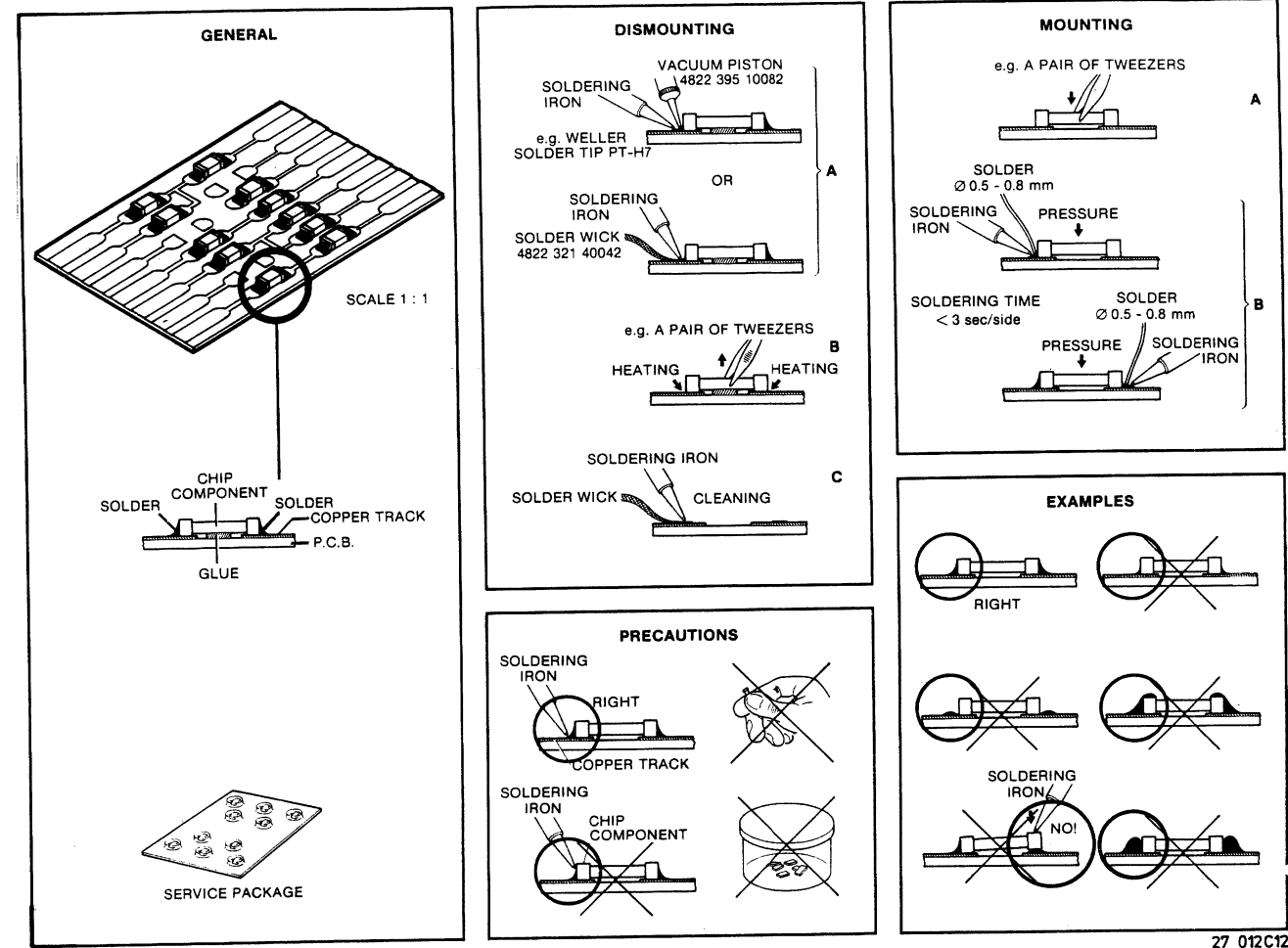
Compose a service Disc hold-down in the following way.

- Cut in the most inner ring of a disc hold-down (4822 462 50383) with small and sharp nippers. See fig. below.
- Enlarge the diameter of the innermost ring slightly with the hind part of a pencil or ballpoint, so that it jams onto the turntable with sufficient force.
- If the jamming force decreases after certain time of use, the diameter has to be enlarged with a pencil or ballpoint again.

SERVICE TOOLS

Audio signal disc	4822 397 30184
Disc without errors (test disc 5) + disc with DO errors, black spots and fingerprints (test disc 5A)	4822 397 30096
Disc (65 min 1kHz) without pause	4822 397 30155
Max. diameter disc (58.0 mm)	4822 397 60141
Torx screwdrivers	
Set (straight)	4822 395 50145
Set (square)	4822 395 50132
13th order filter	4822 395 30204
Service cable (4p)	4822 321 21284
Service flexfoil (14p)	4822 322 40066
Service connector (14p)	4822 267 50676
Green LED CQY G11	5322 130 32182



**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 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.

F ATTENTION

Tous les IC et beaucoup d'autres 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 enfiler 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.

D WARNUNG

Alle IC's und viele andere Halbleiter sind empfindlich gegenüber elektrostatischen 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.

**NL WAARSCHUWING**

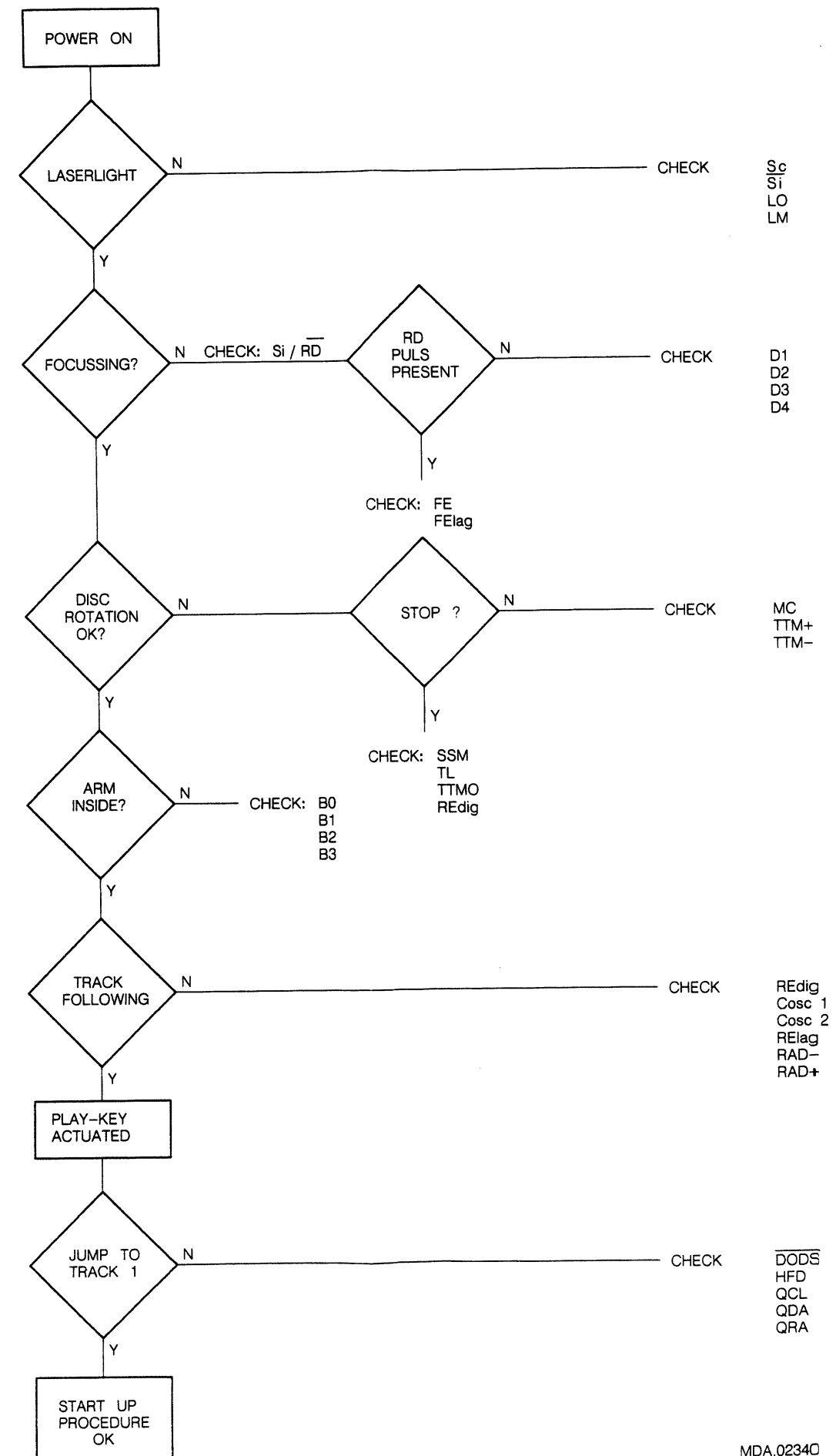
Alle IC's en vele andere halfgeleiders zijn gevoelig voor electrostatische ontladingen (ESD). Onzorgvuldig behandelen tijdens reparatie kan de levensduur drastisch doen verminderen. Zorg ervoor dat u tijdens reparatie via een polsband met weerstand verbonden bent met hetzelfde potentiaal als de massa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

Houd componenten en hulpmiddelen ook op ditzelfde potentiaal.

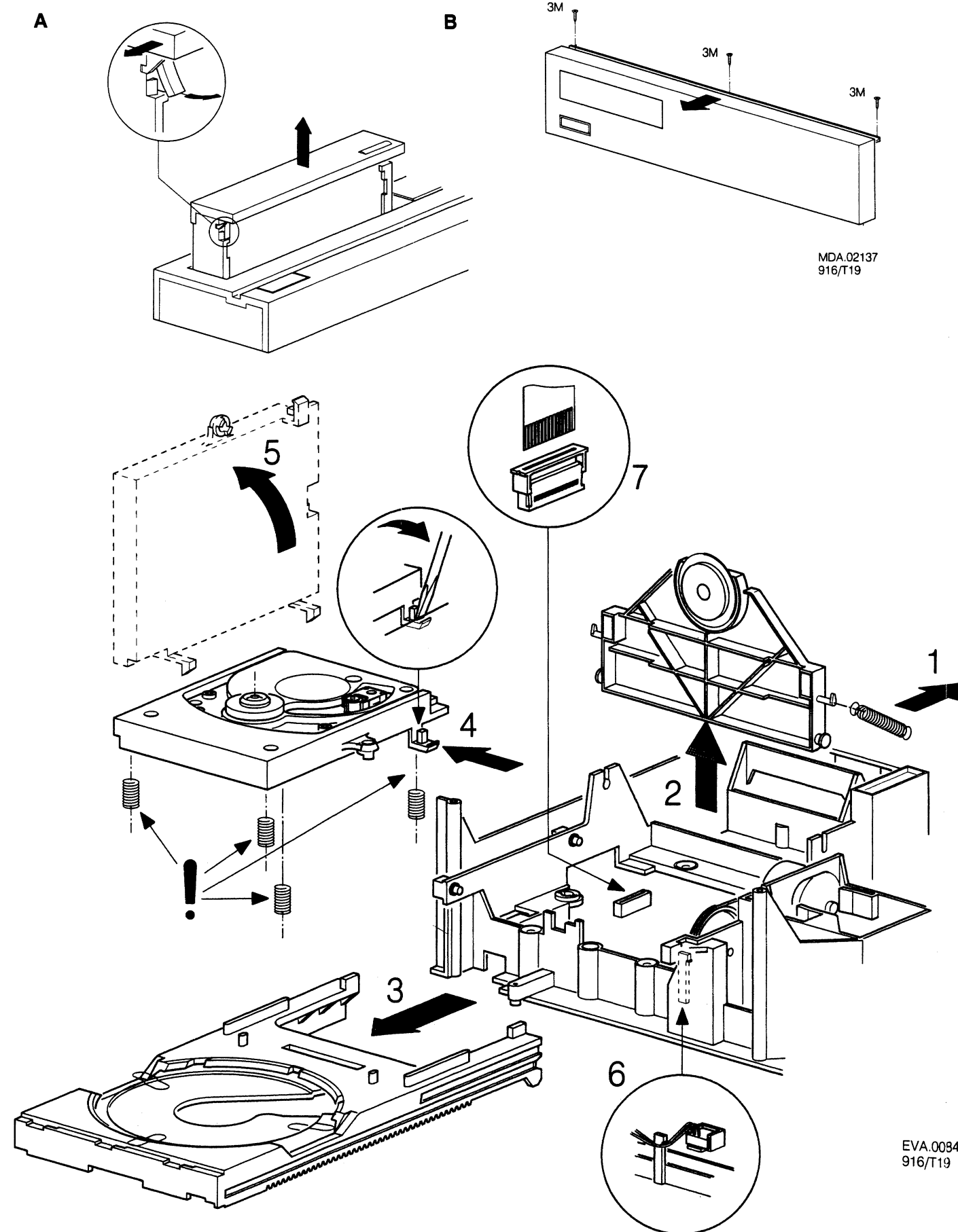
I AVVERTIMENTO

Tutti IC e parecchi semi-conduttori sono sensibili alle scariche statiche (ESD). La loro longevità potrebbe essere fortemente ridotta 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.

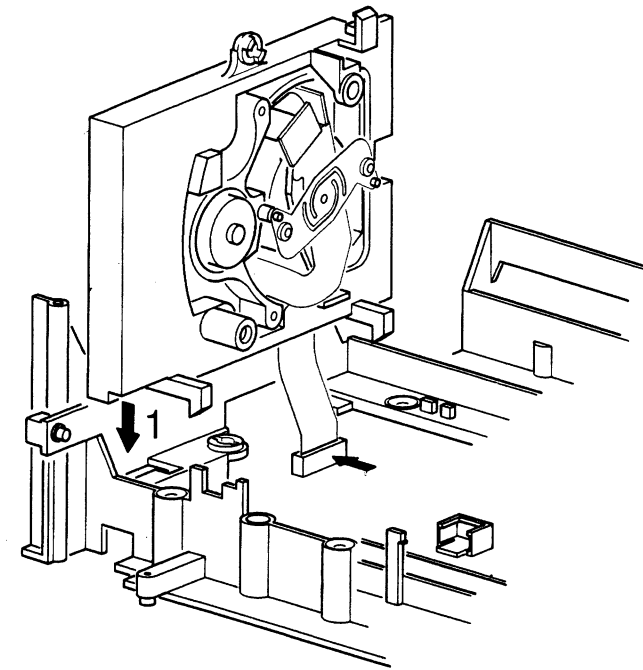
Assicurarsi che i componenti e anche gli utensili con quali si lavora siano anche a questo potenziale.



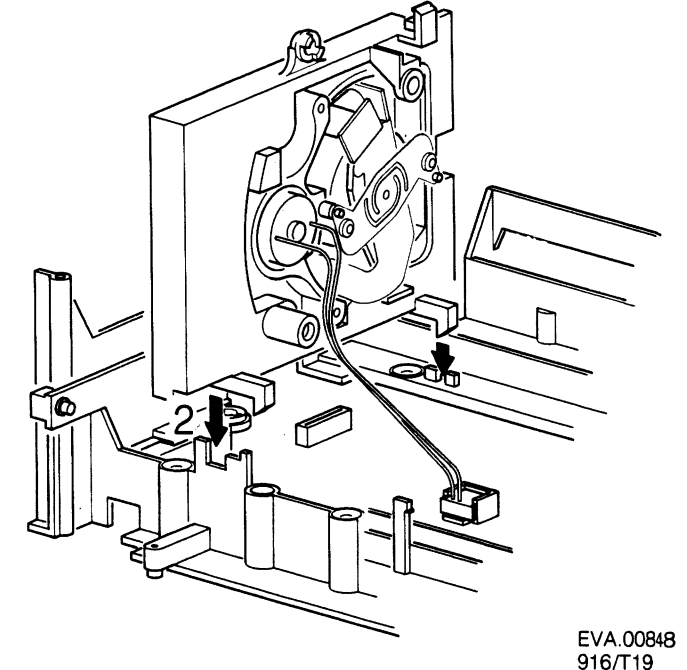
DISASSEMBLY OF THE CABINET AND LOADING CABINET DISASSEMBLY HINTS



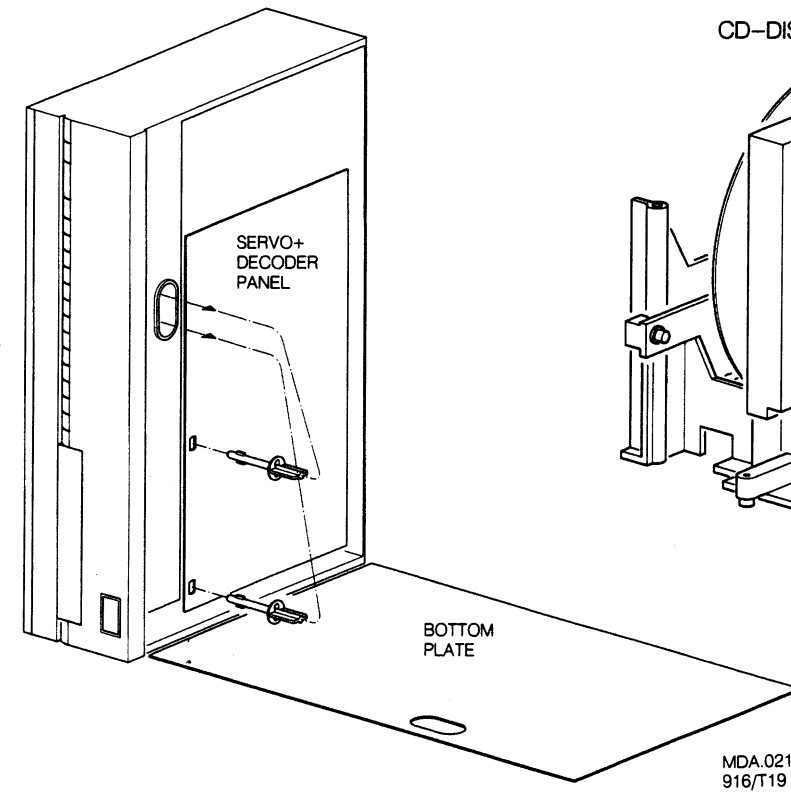
FOIL CONNECTION POSITION



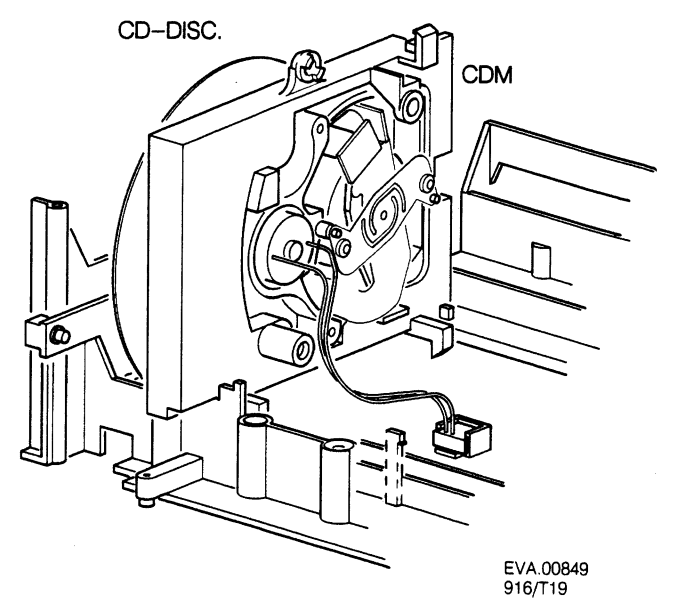
PLAY-SERVICE POSITION



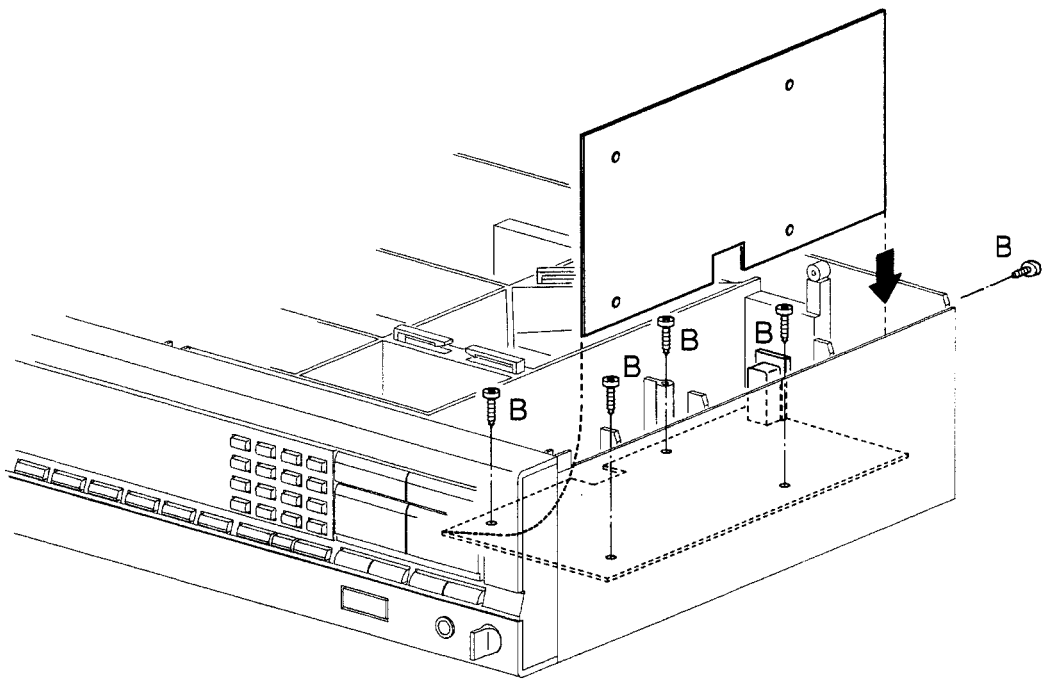
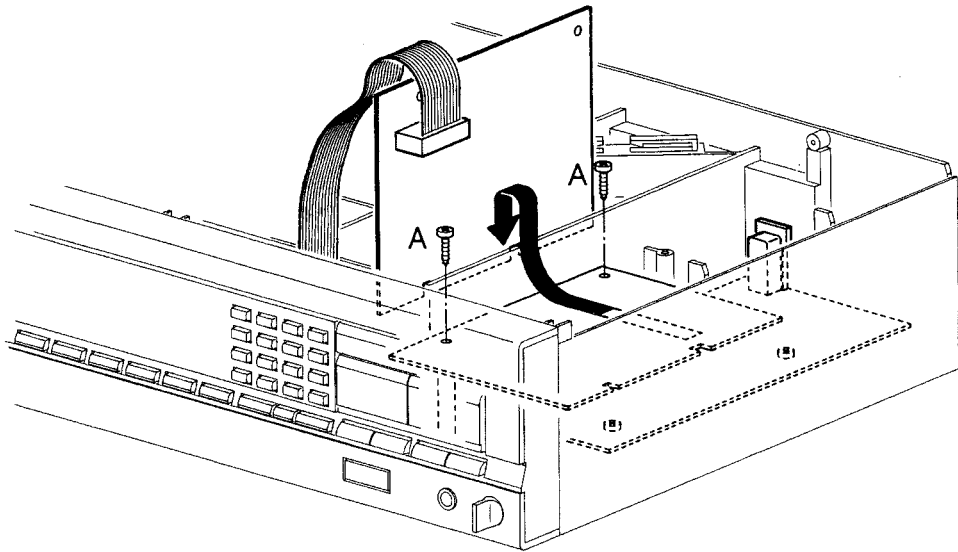
MEASURING AND ADJUSTMENT POSITION



SERVICE POSITION PLAY



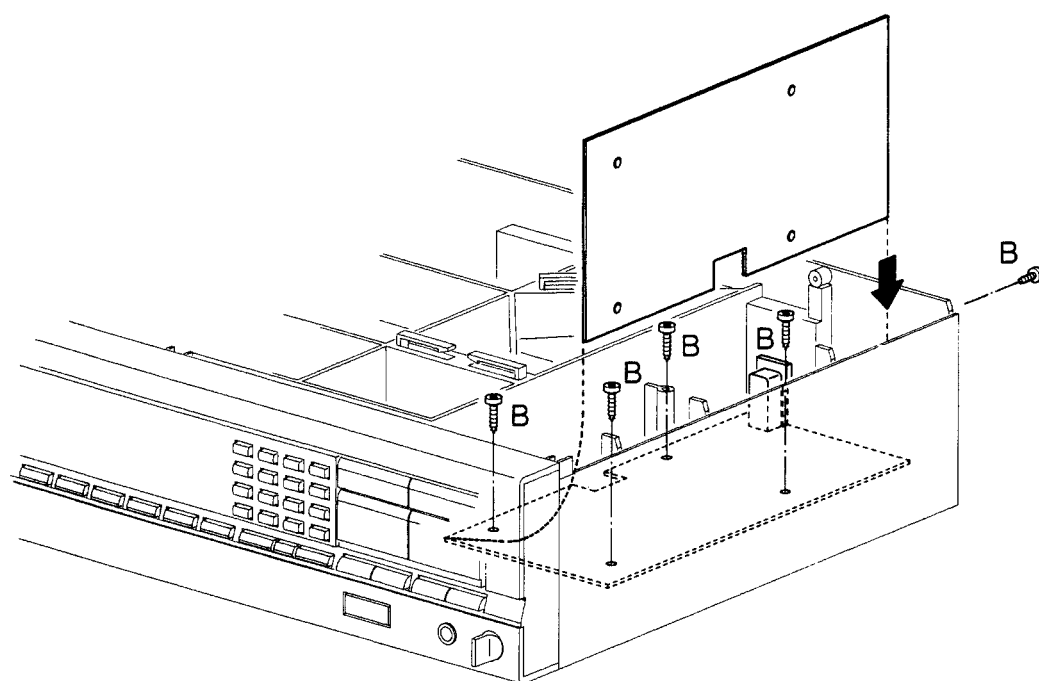
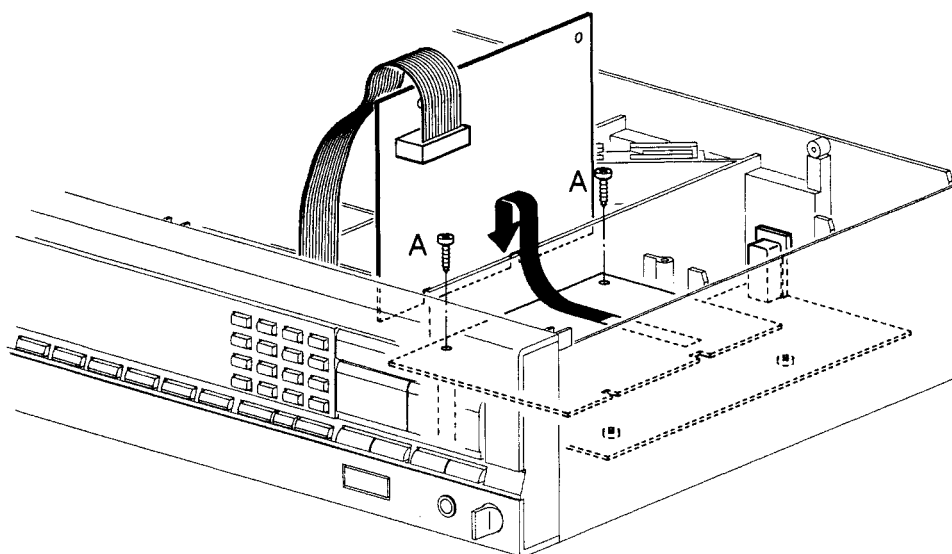
CAUTION
INVISIBLE LASER RADIATION WHEN
OPEN. DO NOT STARE INTO BEAM
3104 106 75942



EVA.00941
19/938

MECHANICAL PARTSLIST

101	4822 444 40343	
102	4822 459 10803	
103	4822 444 60626	
104	4822 450 61487	
106	4822 410 60101	
107	4822 410 60105	
108	4822 402 61249	
109	4822 381 11052	
111	4822 381 11051	
112	4822 413 41451	
113	5322 492 64624	
114	4822 410 60094	
116	4822 410 60095	
117	4822 410 60099	
118	4822 410 60102	
119	4822 444 50603	
121	4822 325 50177	
122	4822 466 92251	
123	4822 325 50176	
124	4822 321 10457	For /00R
124	4822 321 10522	For /05R
124	4822 321 10445	For /06B
126	4822 321 23116	
127	4822 218 10313	RC Transmitter RD5884/01
128	4822 444 30417	
129	4822 410 60104	
131	4822 410 60098	
132	4822 505 10571	M 12X 1 ZKM
134	4822 402 61253	
137	4822 492 52094	
138	4822 532 51756	
139	4822 402 61252	
141	4822 358 10115	
142	4822 528 90638	
143	4822 492 52094	
144	4822 466 61587	
146	4822 402 61252	
147	4822 402 50276	
148	4822 492 52123	
149	4822 444 60655	
150	4822 528 70651	
151	4822 492 51902	
152	4822 528 81329	
153	4822 492 70332	
154	4822 444 60568	
155	4822 466 92257	
156	4822 492 32883	
157	4822 520 40177	
158	4822 691 30209	
159	4822 530 80503	
160	4822 402 61207	
161	4822 402 61196	
162	4822 361 21258	
163	4822 444 60663	
164	4822 444 50621	
166	4822 535 80806	
167	4822 444 30404	

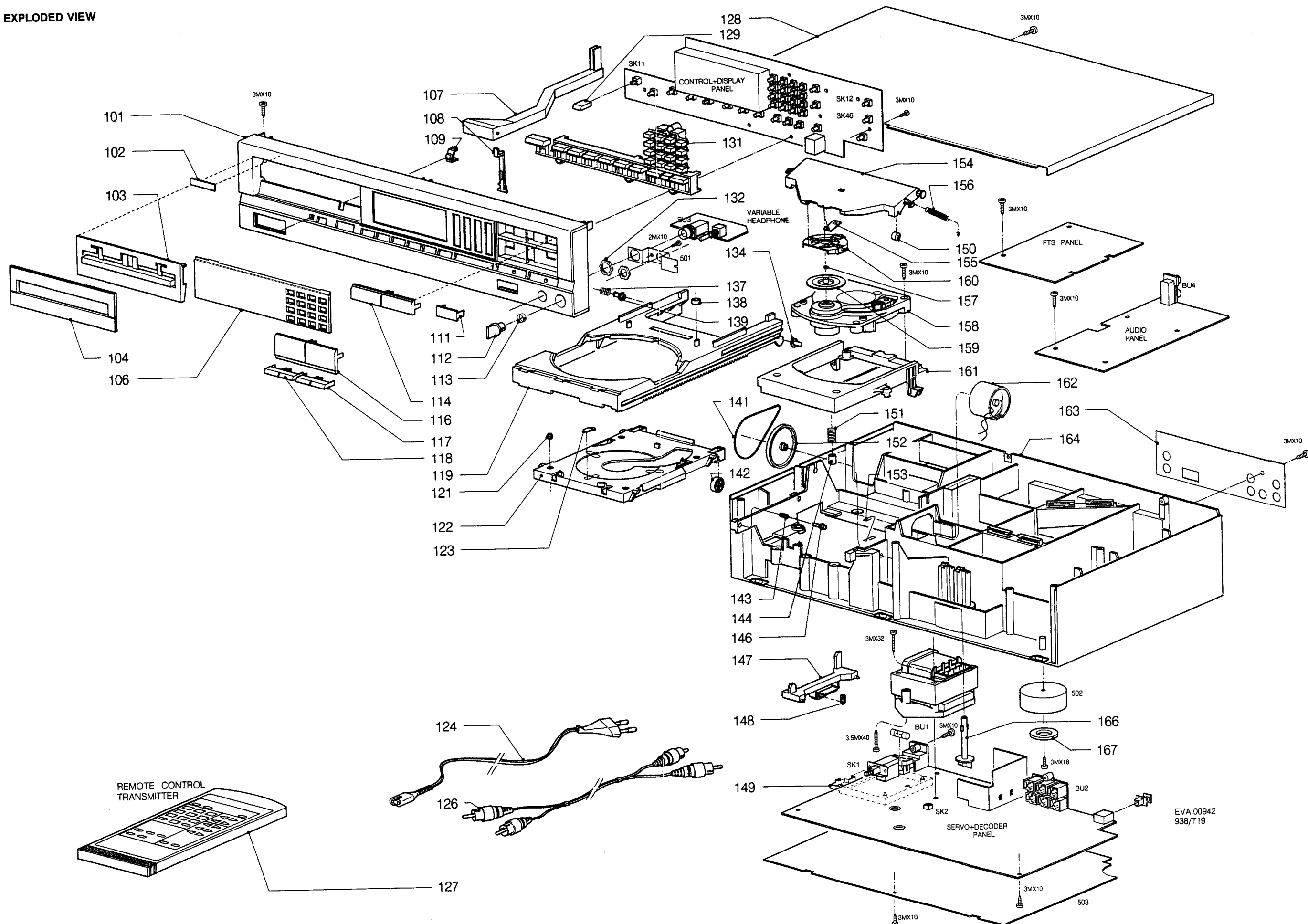


EVA.00941
19/938

MECHANICAL PARTSLIST

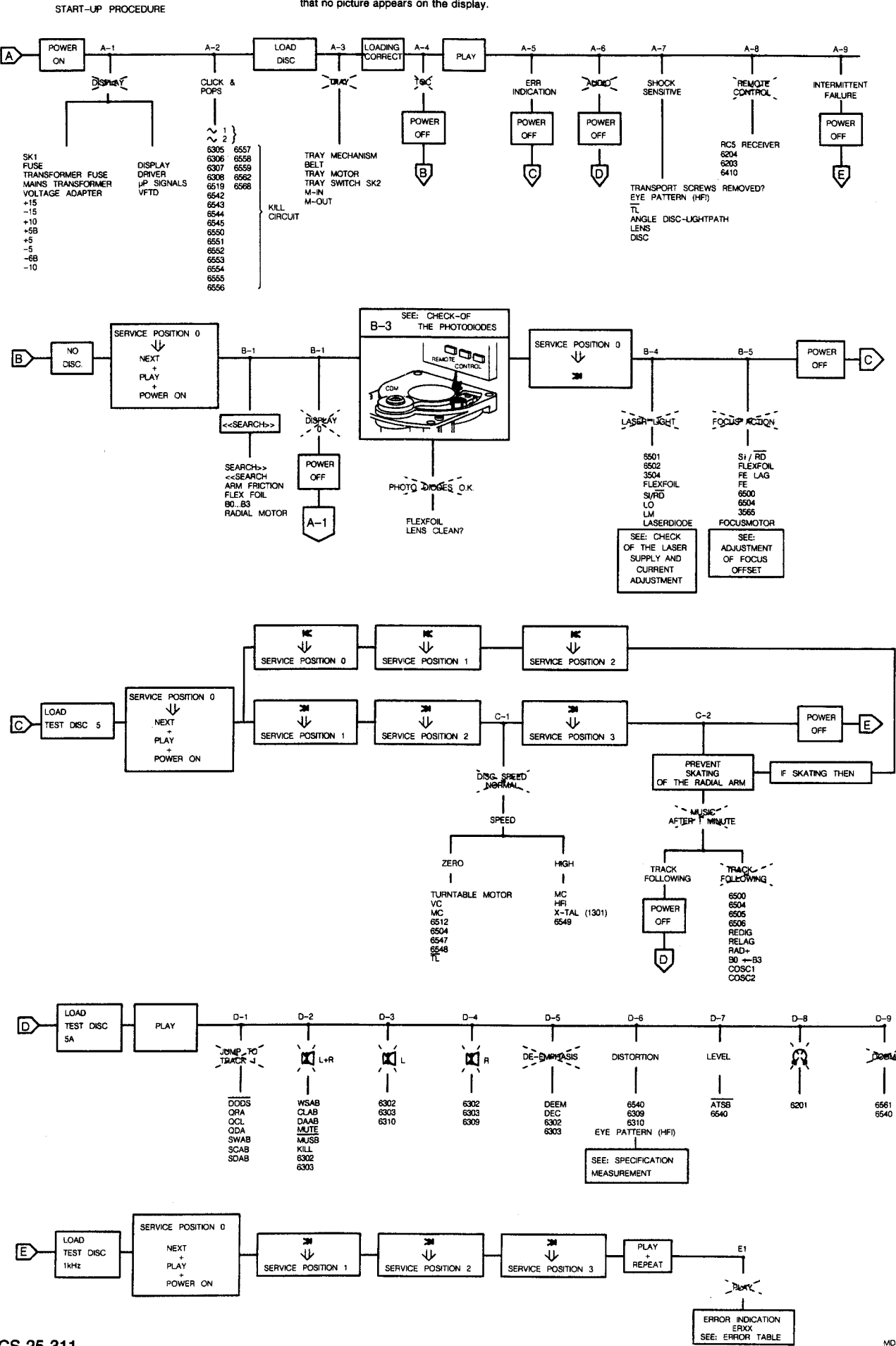
101	4822 444 40343	
102	4822 459 10803	
103	4822 444 60626	
104	4822 450 61487	
106	4822 410 60101	
107	4822 410 60105	
108	4822 402 61249	
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117	4822 410 60099	
118	4822 410 60102	
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144	4822 466 61587	
146	4822 402 61252	
147	4822 402 50276	
148	4822 492 52123	
149	4822 444 60655	
150	4822 528 70651	
151	4822 492 51902	
152	4822 528 81329	
153	4822 492 70332	
154	4822 444 60568	
155	4822 466 92257	
156	4822 492 32883	
157	4822 520 40177	
158	4822 691 30209	
159	4822 530 80503	
160	4822 402 61207	
161	4822 402 61196	
162	4822 361 21258	
163	4822 444 60663	
164	4822 444 50805	
166	4822 535 80806	
167	4822 444 30404	

EXPLODED VIEW

EVA.00942
938/T19

FAULTFINDING TREE

TROUBLE SHOOTING (FAULT FINDING TREE)



B-3 CHECK OF THE PHOTODIODES

Step	Signal	Mode					Remarks
1	D2 D1 D3 D4	power on	 	 	 	 	signal $4 \pm 6 \pm 7 \pm 8$ Signal depends on Distance lens $\leftrightarrow$ IR LED of remote control

T-22407A

B-4 CHECK OF LASER SUPPLY

The laser, the lasersupply plus the monitor diode form a feedback system. A defect in the lasersupply may result in the destruction of the laser. If, in that case, the laser is replaced, (= complete D.C.M.-unit) the new laser will also become defective. However, it is impossible to check and repair a feedback system if a link is missing. For this reason the laser supply can be checked with the replacement circuit for laser assembly.

Step	Signal	Mode				Remarks
1	LO LM	serv. pos. 2 SK	 	 	 	$1.8 < V < 2.3$ $170 < mV < 220$ PRS05539
2	LO LM	serv. pos. 2 SK	 	 	 	$1.8 < V < 2.3$ $170 < mV < 220$ PRS05540
3	LO	Power on				$0V \pm 0.2V$ No light

T-22407B

B-4 LASER CURRENT ADJUSTMENT

Step	Signal	Mode					Remarks
1	-	Power off					Pre-adjustment Ohmic value
2	Eye-pattern HF	Power on Test disc 5 play					EYE pattern
3	laser current = voltage across R3508	Test disc 5 play track 1					High-ohmic measurement

T-22407C

B-5
ADJUSTMENT OF FOCUS-OFFSET

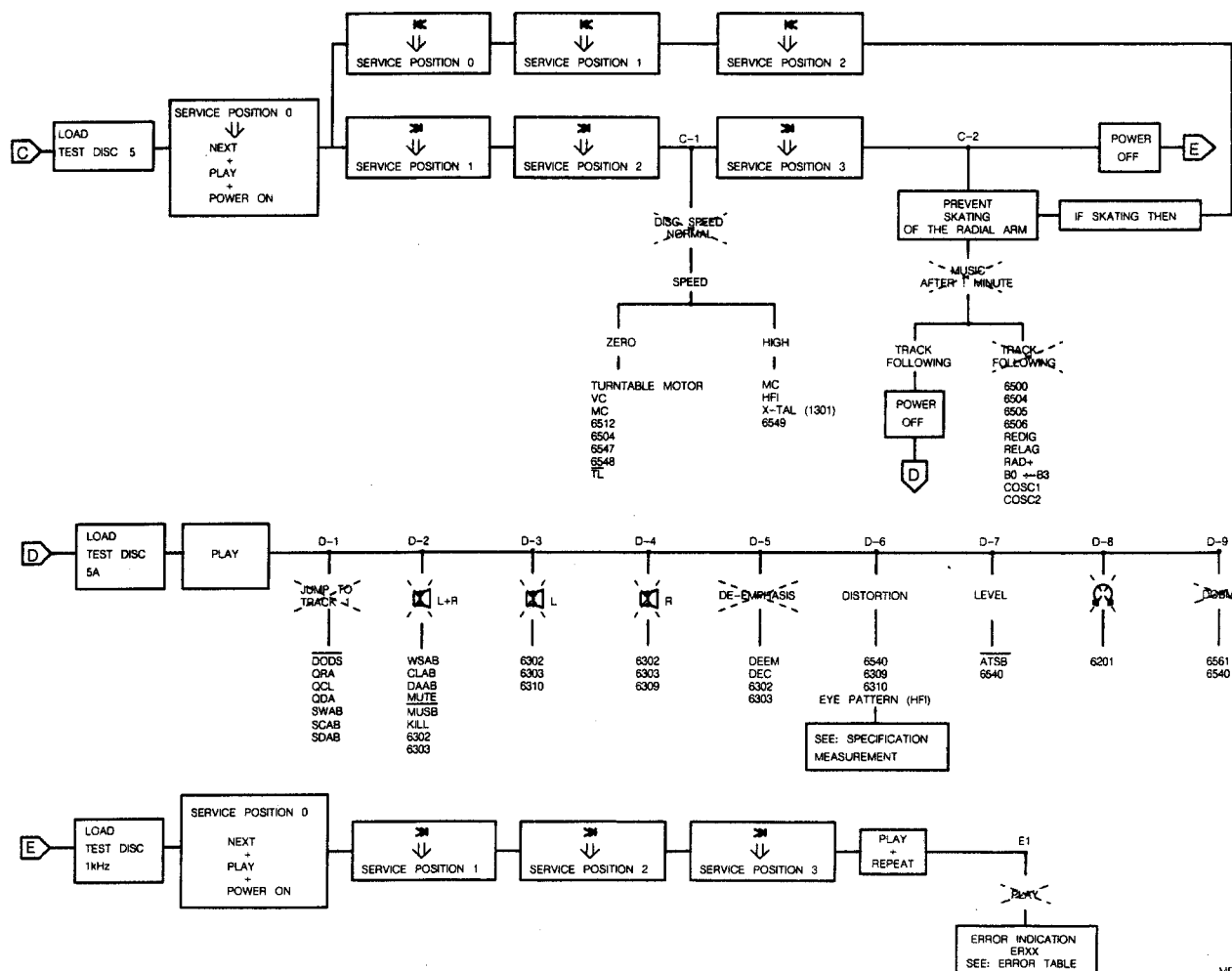
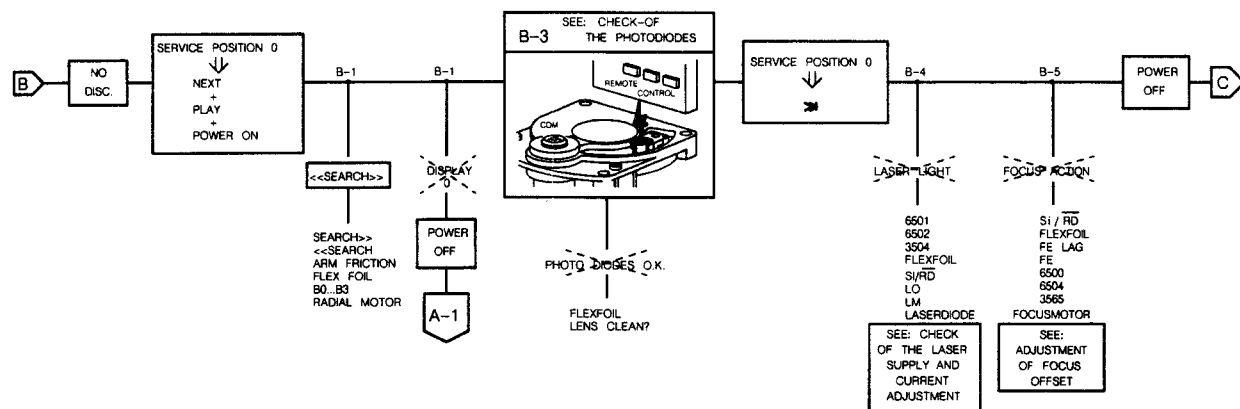
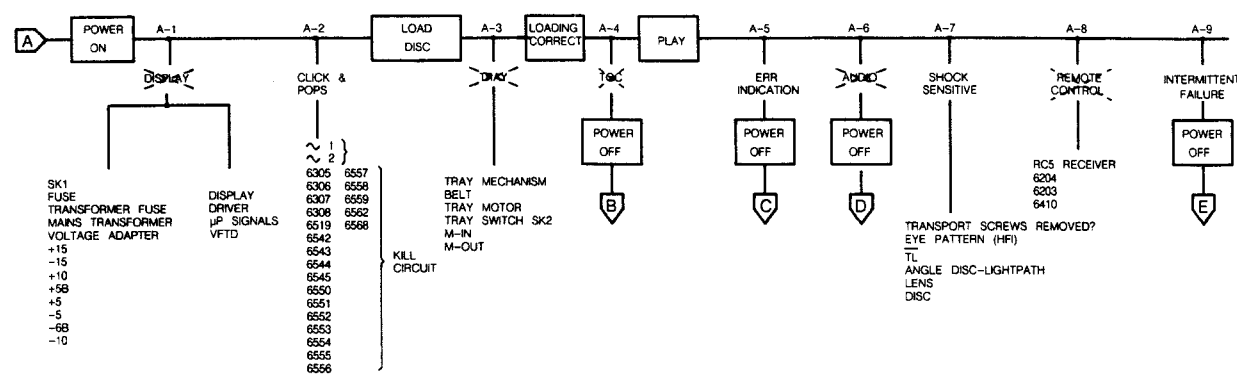
Step	Signal	Mode					Remarks
1	-	Power on no disc					adjust for optical mid-position of the focus motor
2	FE LAG	Play Test disc 5 Track 1					fine adjustment

T-22407D

FAULTFINDING TREE

TROUBLE SHOOTING (FAULT FINDING TREE):

START-UP PROCEDURE



B-3 CHECK OF THE PHOTODIODES

Step	Signal	Mode					Remarks
1	D2 D1 D3 D4	power on		-	-	signal 4±6±7±8	Signal depends on Distance lens ↔ IR LED of remote control

T-22407A

B-4 CHECK OF LASER SUPPLY

The laser, the lasersupply plus the monitor diode form a feedback system.

A defect in the lasersupply may result in the destruction of the laser. If, in that case, the laser is replaced, (= complete D.C.M.-unit) the new laser will also become defective. However, it is impossible to check and repair a feedback system if a link is missing. For this reason the laser supply can be checked with the replacement circuit for laser assembly.

Step	Signal	Mode			Remarks
1	LO LM	serv. pos. 2 SK		1.8<V<2.3 170<mV<220	PRS05539
2	LO LM	serv. pos. 2 SK		1.8<V<2.3 170<mV<220	PRS05540
3	LO	Power on		0V ± 0.2V	No light

T-22407B

B4 LASER CURRENT ADJUSTMENT

STEP	SIGNAL	MODE					REMARKS
1	--	POWER OFF	--	--	--	--	CHECK IF FLEX-FOIL IS PROPERLY CONNECTED
2	--	POWER OFF			R3520	1kΩ +10% -0	PRE ADJUSTMENT OHMIC VALUE
3	--	POWER OFF	--	--	R3568	--	SET TO MID-POSITION
4	LASER CURRENT ≡ VOLTAGE ACROSS R3501	TEST DISC 5A PLAY			mV DC	--	IF < 15mV THEN GO TO STEP 3 AND SET R3568 TO 1/4 OR 3/4. TRY AGAIN
5	LASER CURRENT ≡ VOLTAGE ACROSS R3501	TEST DISC 5A PLAY			R3520	50mV	--
6	FE-LAG	TEST DISC 5A TRACK 1 PLAY			R3568	400mV	FINE ADJUSTMENT

MDA 02540
T 05/016

B-5 ADJUSTMENT OF FOCUS-OFFSET

Step	Signal	Mode					Remarks
1	-	Power on no disc	-	R3568	-	-	adjust for optical mid-position of the focus motor
2	FE LAG	Play Test disc 5 Track 1	27	R3568	400mV ± 40 mV DC	-	fine adjustment

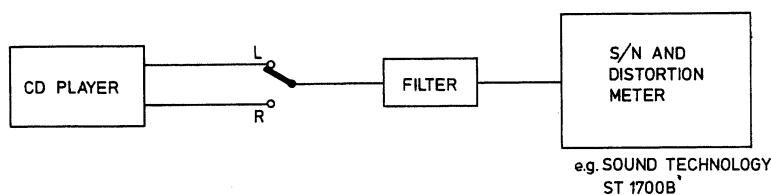
T-22407D

D-6 SPECIFICATIONS MEASUREMENT

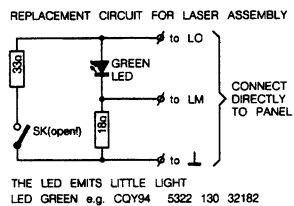
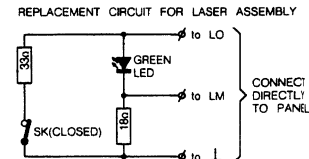
Signal	Mode				Remarks
BU2-L	Test disc 3, play, total harmonic distortion	filter output	See technical data		See drawing 30459A12
BU2-R	Test disc 3, play, total harmonic distortion	filter output	See technical data		See drawing 30459A12
BU2-L	Test disc 3, play signal-to-noise ratio	filter output	See technical data		See drawing 30459A12
BU2-R	Test disc 3, play signal-to-noise ratio	filter output	See technical data		See drawing 30459A12

T-22387M

Filter = 13th order filter 4822 395 30204



30 459 A12

PRS 05539
T28/845

The feedback system sees to it that the same amount of current flows through the LED. When SK is open and when SK is closed the LED emits little light.

PRS 05540
T28/845

ERROR CODE TABLE

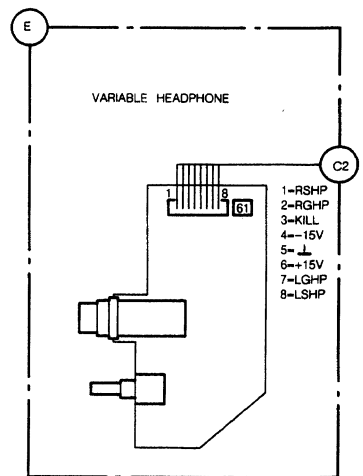
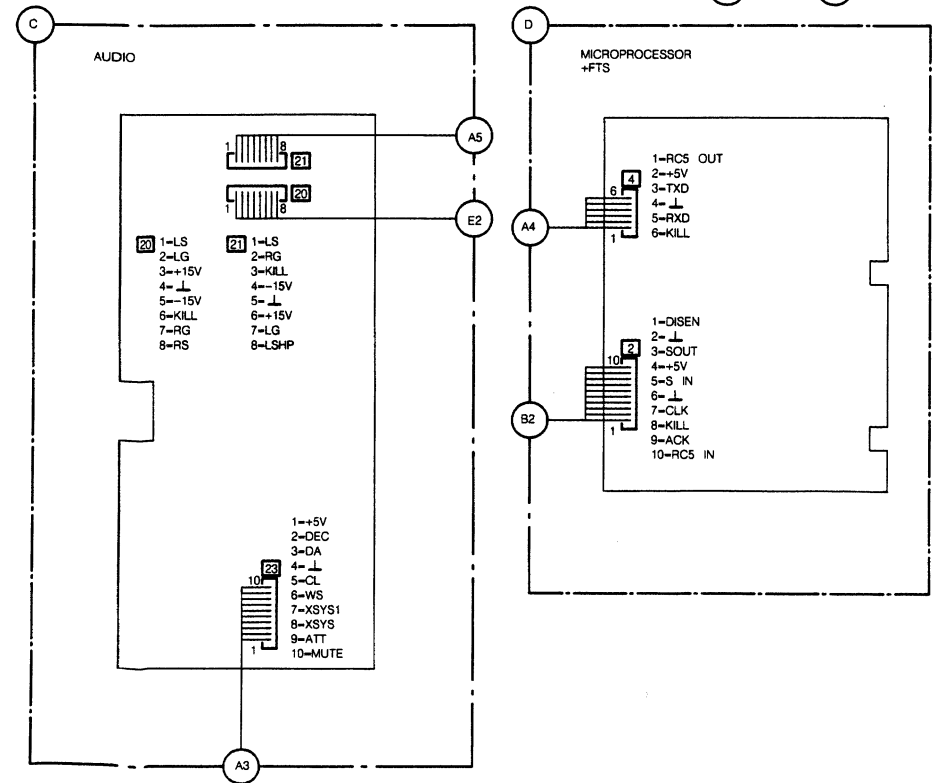
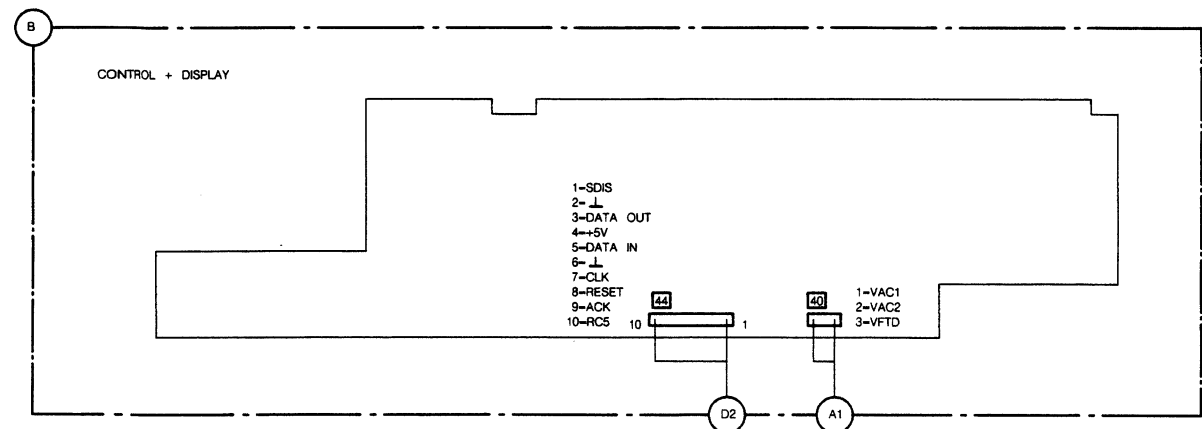
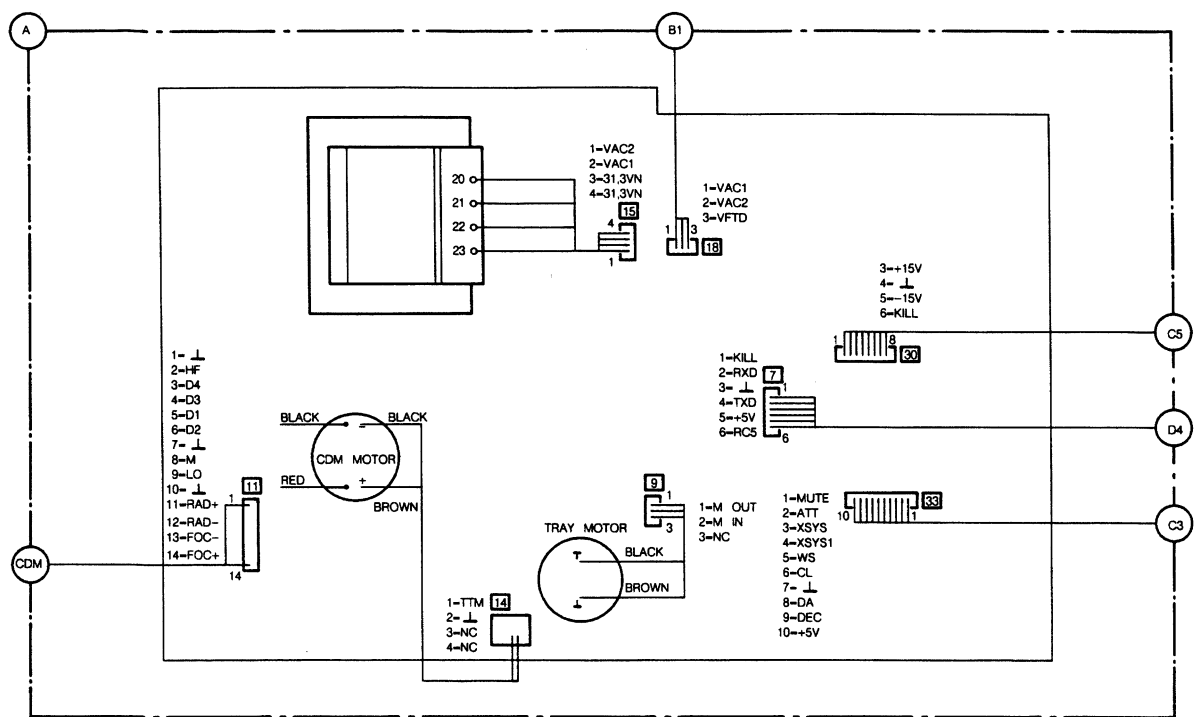
SYSTEM ERRORS

ERROR 01	Tray error
ERROR 02	Focus error
ERROR 03	Radial error
ERROR 04	Too many TL
ERROR 05	TL low to long
ERROR 06	Jump error
ERROR 07	Subcode error
ERROR 08	TOC error

OPERATING ERRORS

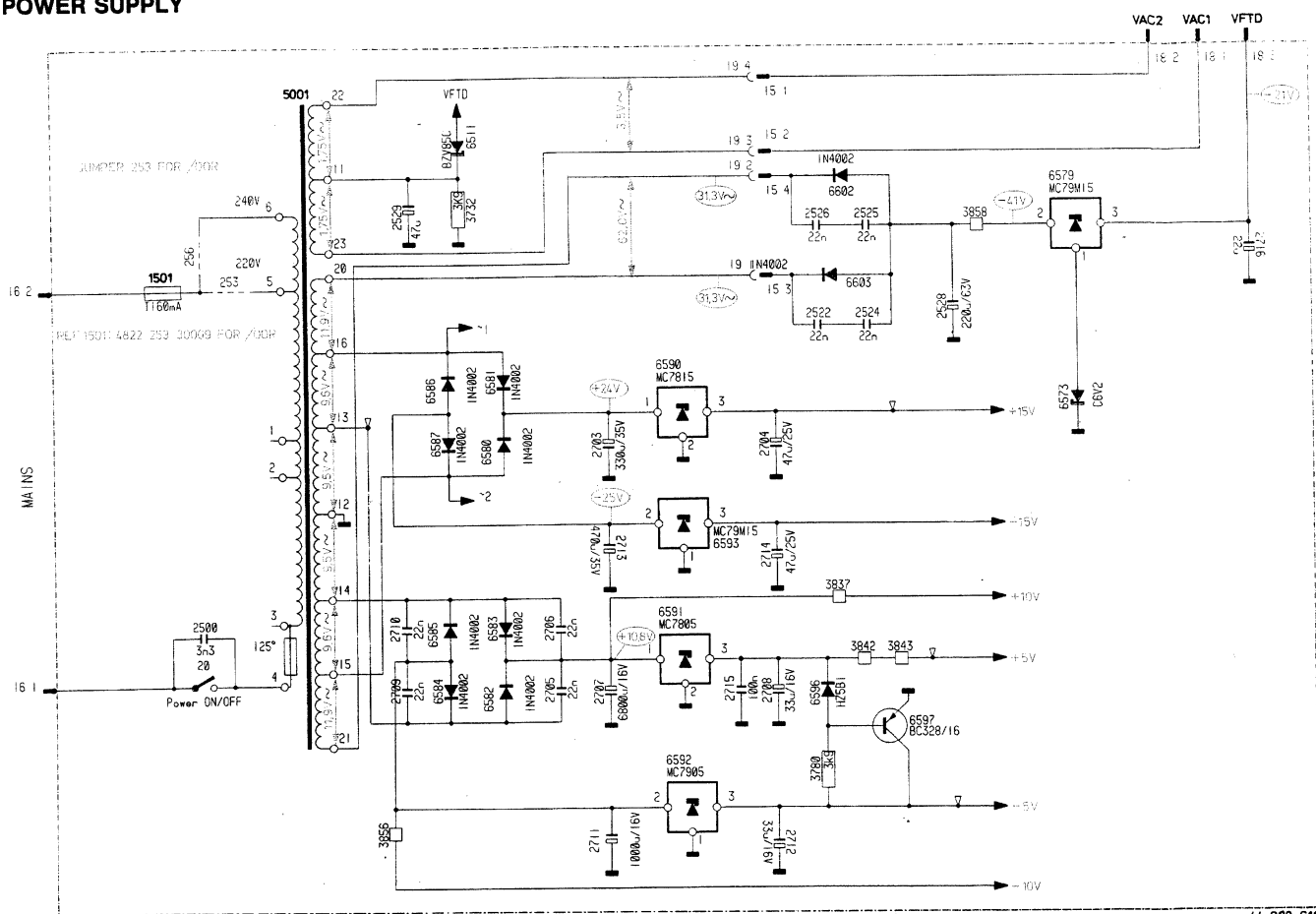
ERROR 10	Selected track not accessible
ERROR 11	Relative time not accessible
ERROR 12	Absolute time not accessible
ERROR 30	Next operated during last track without repeat
ERROR 31	Previous operated during last track without repeat
ERROR 42	Selected track does not exist

5-1
WIRING DIAGRAM

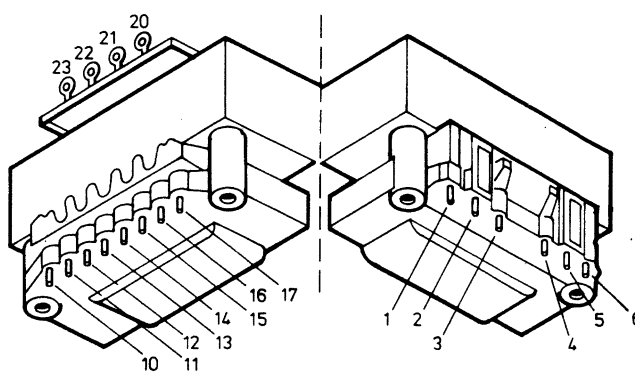
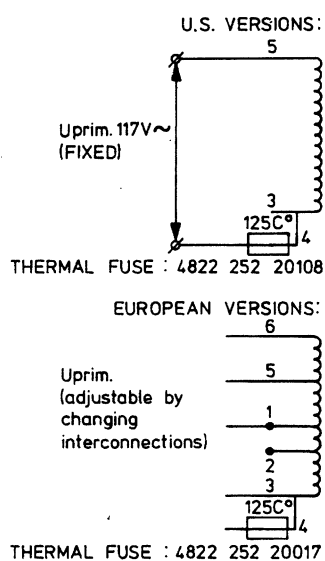


MDA 02300
T19/837

POWER SUPPLY

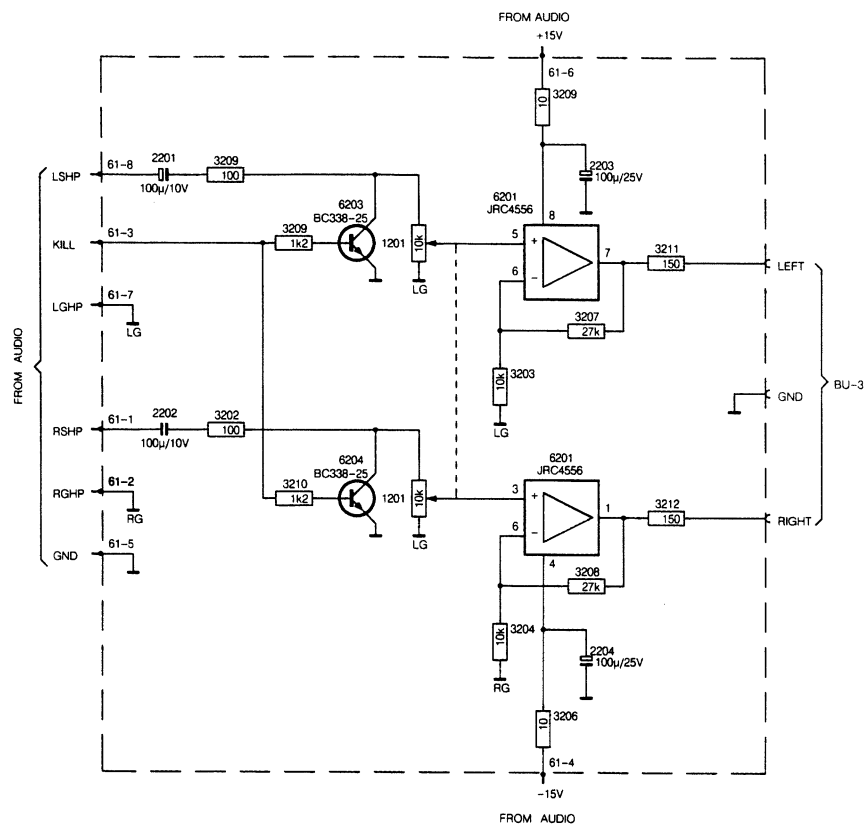


44 989 C11

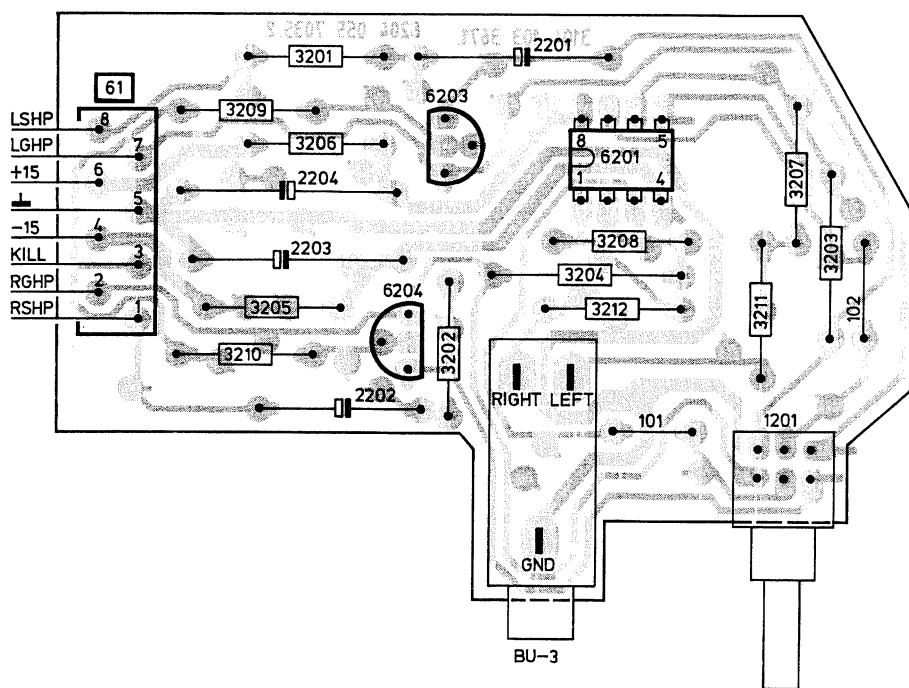


44 737 A11

VARIABLE HEADPHONE

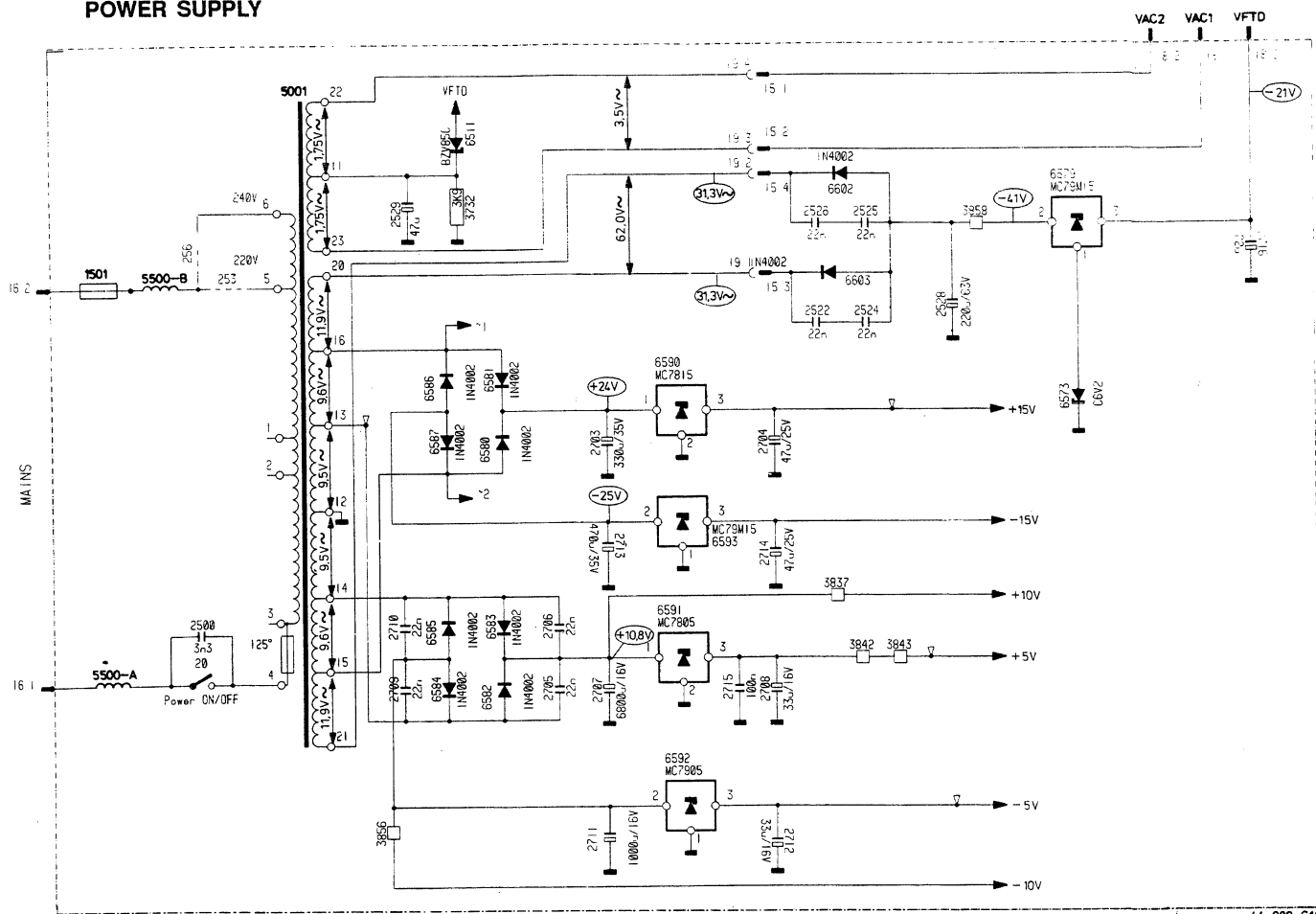


PRS 06196
T07-937



44 950 B11

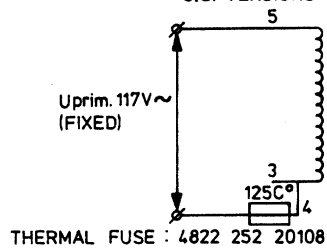
POWER SUPPLY



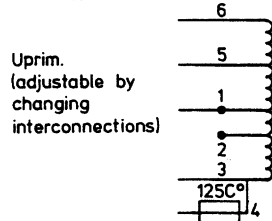
44 989 C11

Jumper 253 for /00R /06B
 Jumper 256 for /05R
 Item 1501: 4822 253 30009 fuse 160mAT for /00R /05R
 : 4822 253 30217 fuse 300mAT for /06B
 Item 5001: 4822 146 21441 for /00R /05R
 : 4822 146 21497 for /06B

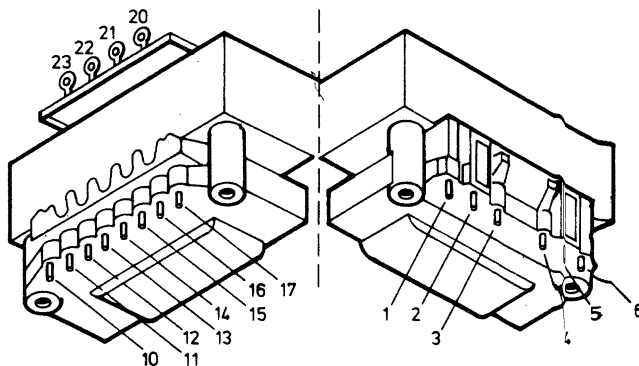
U.S. VERSIONS:



EUROPEAN VERSIONS:

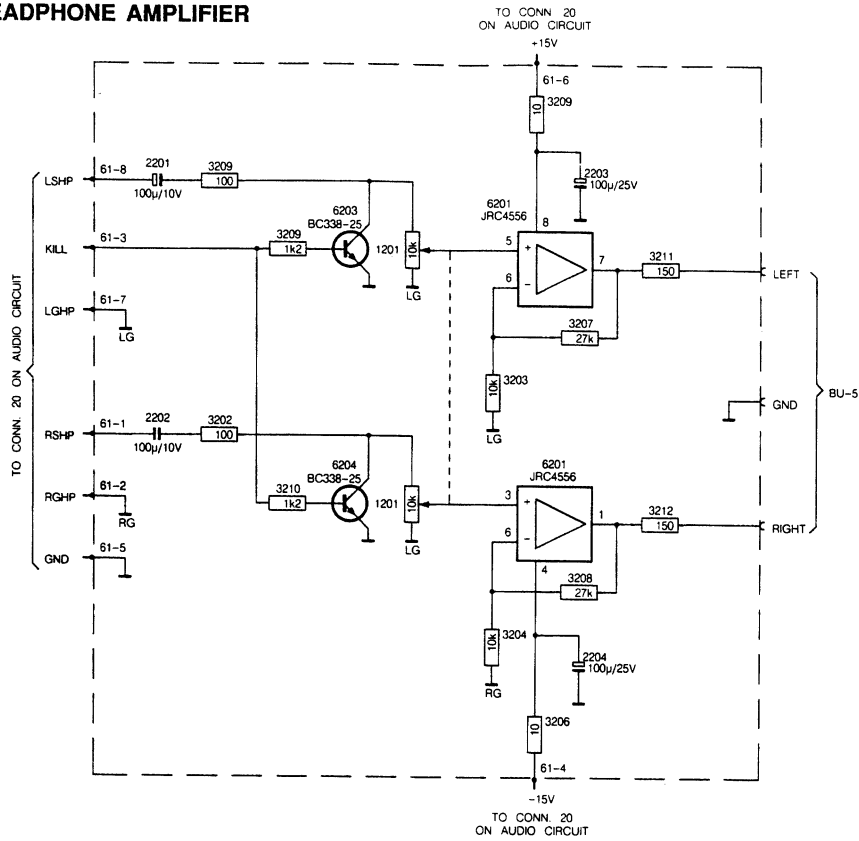


THERMAL FUSE : 4822 252 20017

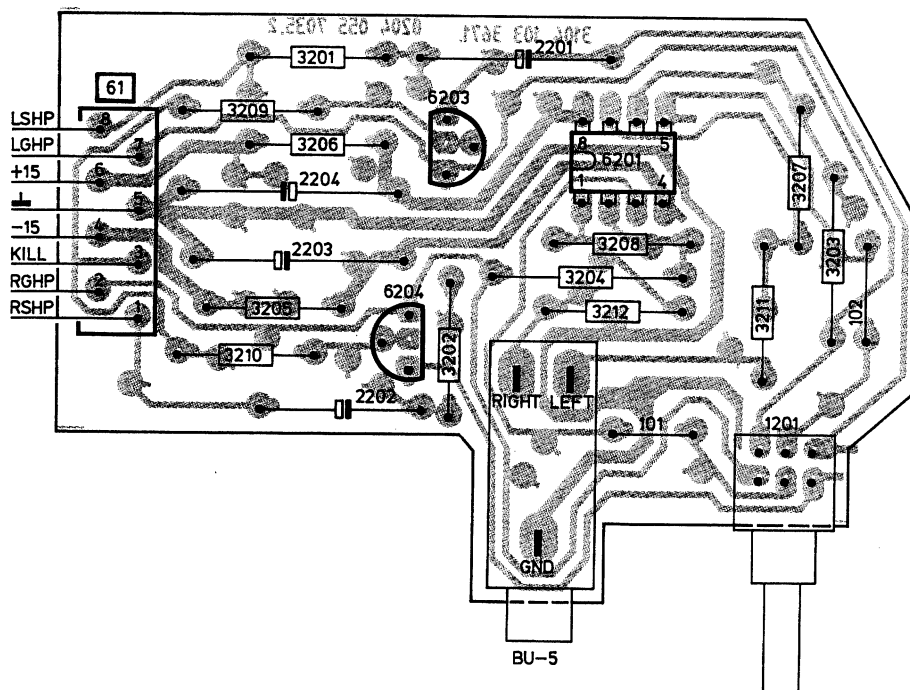


44-737 A11

VARIABLE HEADPHONE AMPLIFIER



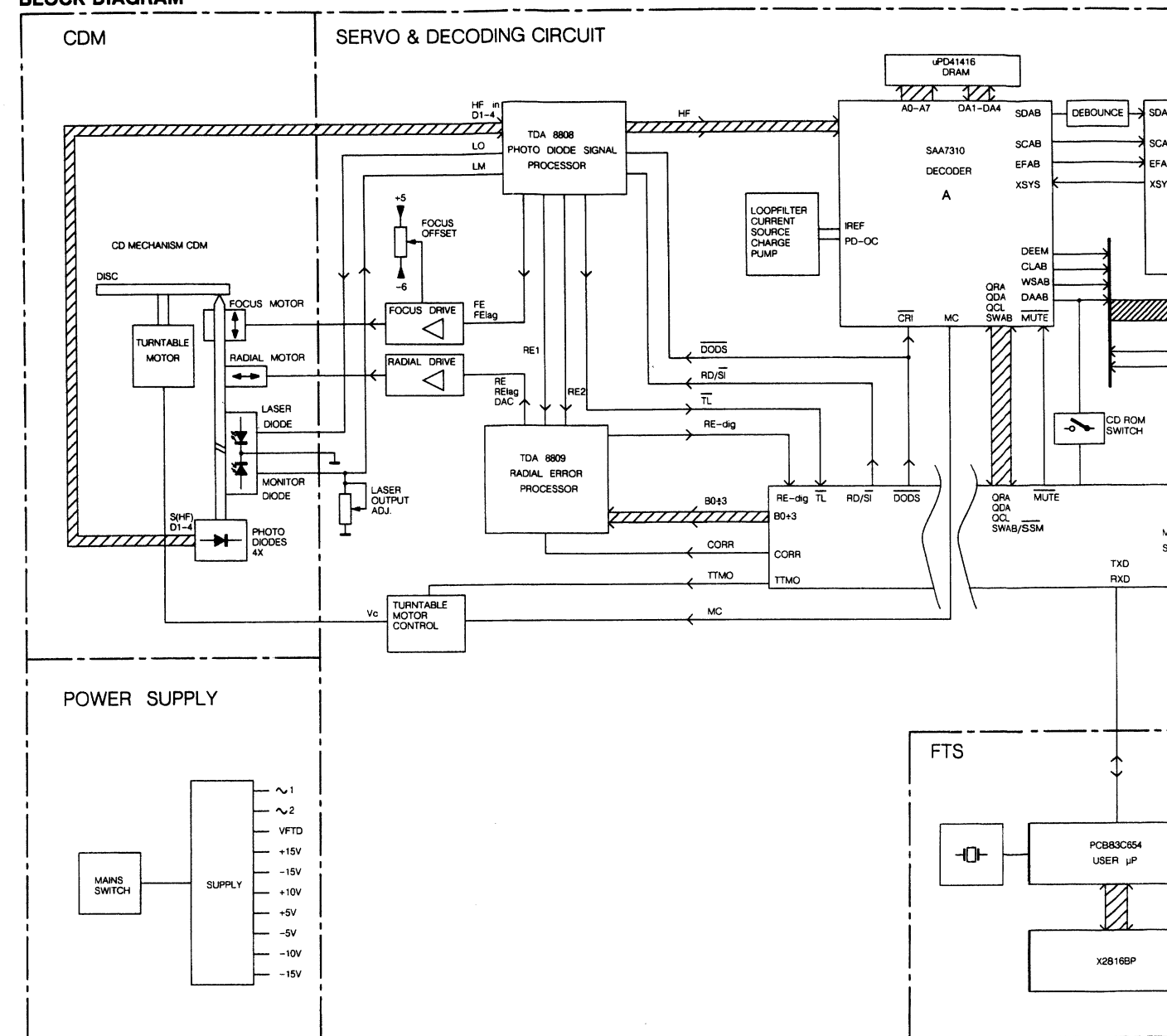
PRS.06196
T-08 038



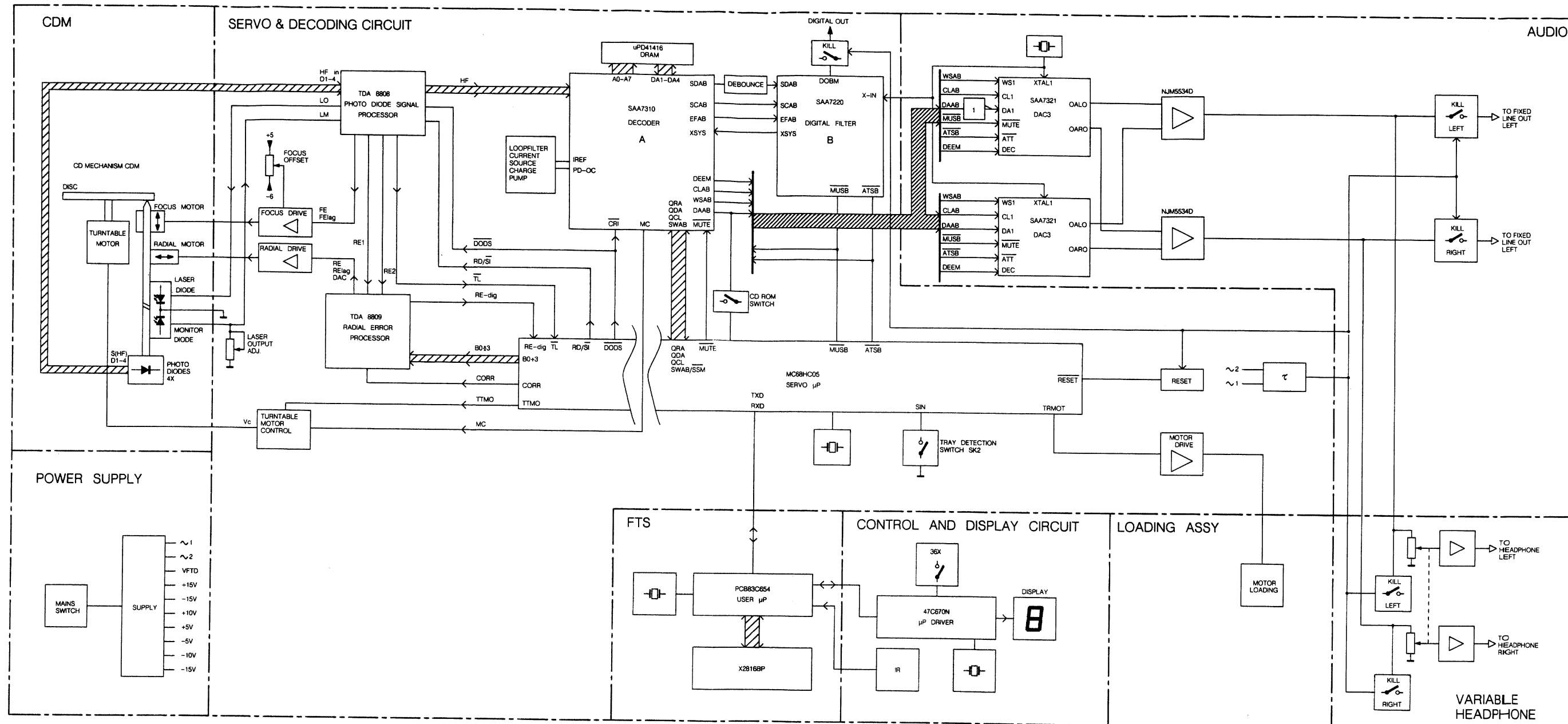
44 950 B11

Rosc	- Resistor wobble oscillator
Rwob	- Wobble generator input
RE1	- Radial error signal 1 (summation of amplified currents D_3 and D_4)
RE2	- Radial error signal 2 (summation of amplified currents D_1 and D_2)
RE dig	- Radial error digital
RE lag	- Radial error signal for LAG network
Sc	- Starting up capacitor input
Si/RD	- On/off control for laser supply and focus circuit. Ready signal, Starting up procedure successful.
TL	- Track loss output signal
TTM-	- Control voltage for turntable motor
TTM+	- Control voltage for turntable motor
Vext-	- Supply connection
Vext+	- Supply connection

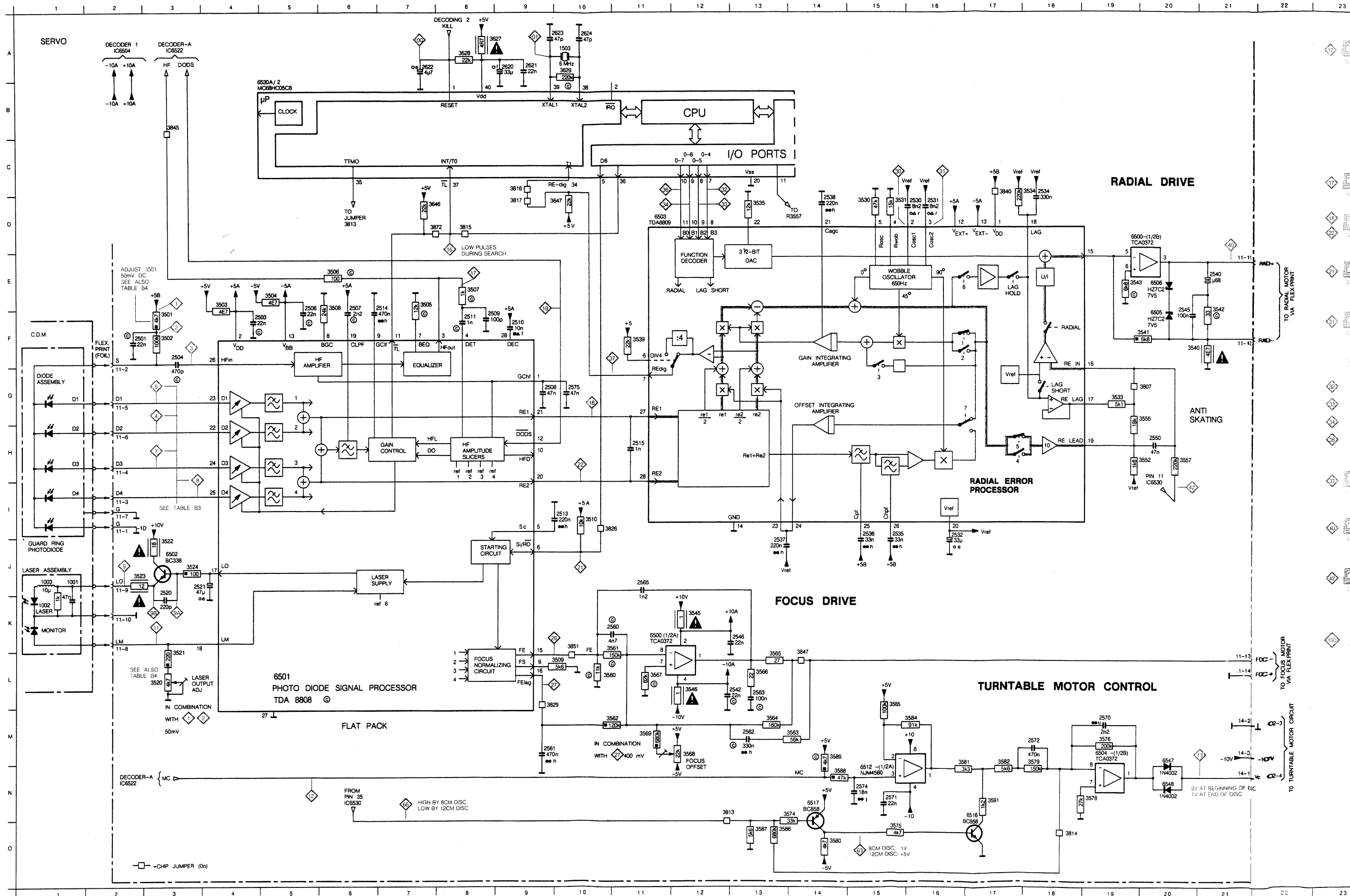
MUSB	–	Soft Mute signal
OALO	–	Operational ampl. left output
OARO	–	Operational ampl. right output
PD/OC	–	Phase detector - oscillator control
QCL	–	Q-channel Clock signal
QDA	–	Q-channel Data signal
QRA	–	Q-channel Request Acknowledge
SCAB	–	Subcode clock Decoder-A to Filter-B
SDAB	–	Subcode data Decoder-A to Filter-B
SIN	–	Tray switch
SWAB/SSM	–	Subcode Word/Start-stop motor signal
TRMOT	–	Tray motor drive
TTMO	–	Motor offset and bandwidth switch
WSAB	–	Word select Decoder-A to Filter-B
WSBD	–	Word Select Filter-B to DAC
WSI	–	I ² S word select input
XIN	–	Oscillator signal in Decoder-A
XSYS	–	Oscillator signal out Filter-B
BSW	–	Bandwidth switch turntable motor circuit

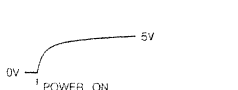


BLOCK DIAGRAM

PRS.06238
T02/943

SERVO CIRCUIT DIAGRAM





1001	J	1
1002	K	1
1003	J	1
1004	A10	1
1005	F	5
1006	F	5
1007	F	5
1008	G	9
1009	F	9
1010	F	9
1011	F	9
1012	F	9
1013	F	9
1014	E	7
1015	H	11
1016	J	1
1017	J	1
1018	D16	1
1019	D16	1
1020	D16	1
1021	D16	1
1022	D16	1
1023	D16	1
1024	D16	1
1025	D16	1
1026	D16	1
1027	D16	1
1028	D16	1
1029	D16	1
1030	D16	1
1031	D16	1
1032	D16	1
1033	D16	1
1034	D16	1
1035	D16	1
1036	D16	1
1037	D16	1
1038	D16	1
1039	D16	1
1040	D16	1
1041	D16	1
1042	D16	1
1043	D16	1
1044	D16	1
1045	D16	1
1046	D16	1
1047	D16	1
1048	D16	1
1049	D16	1
1050	D16	1
1051	D16	1
1052	D16	1
1053	D16	1
1054	D16	1
1055	D16	1
1056	D16	1
1057	D16	1
1058	D16	1
1059	D16	1
1060	D16	1
1061	D16	1
1062	D16	1
1063	D16	1
1064	D16	1
1065	D16	1
1066	D16	1
1067	D16	1
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1072	D16	1
1073	D16	1
1074	D16	1
1075	D16	1
1076	D16	1
1077	D16	1
1078	D16	1
1079	D16	1
1080	D16	1
1081	D16	1
1082	D16	1
1083	D16	1
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1095	D16	1
1096	D16	1
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1098	D16	1
1099	D16	1
1100	D16	1
1101	D16	1
1102	D16	1
1103	D16	1
1104	D16	1
1105	D16	1
1106	D16	1
1107	D16	1
1108	D16	1
1109	D16	1
1110	D16	1
1111	D16	1
1112	D16	1
1113	D16	1
1114	D16	1
1115	D16	1
1116	D16	1
1117	D16	1
1118	D16	1
1119	D16	1
1120	D16	1
1121	D16	1
1122	D16	1
1123	D16	1
1124	D16	1
1125	D16	1
1126	D16	1
1127	D16	1
1128	D16	1
1129	D16	1
1130	D16	1
1131	D16	1
1132	D16	1
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1134	D16	1
1135	D16	1
1136	D16	1
1137	D16	1
1138	D16	1
1139	D16	1
1140	D16	1
1141	D16	1
1142	D16	1
1143	D16	1
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1168	D16	1
1169	D16	1
1170	D16	1
1171	D16	1
1172	D16	1
1173	D16	1
1174	D16	1
1175	D16	1
1176	D16	1
1177	D16	1
1178	D16	1
1179	D16	1
1180	D16	1
1181	D16	1
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1189	D16	1
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1192	D16	1
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1197	D16	1
1198	D16	1
1199	D16	1
1200	D16	1

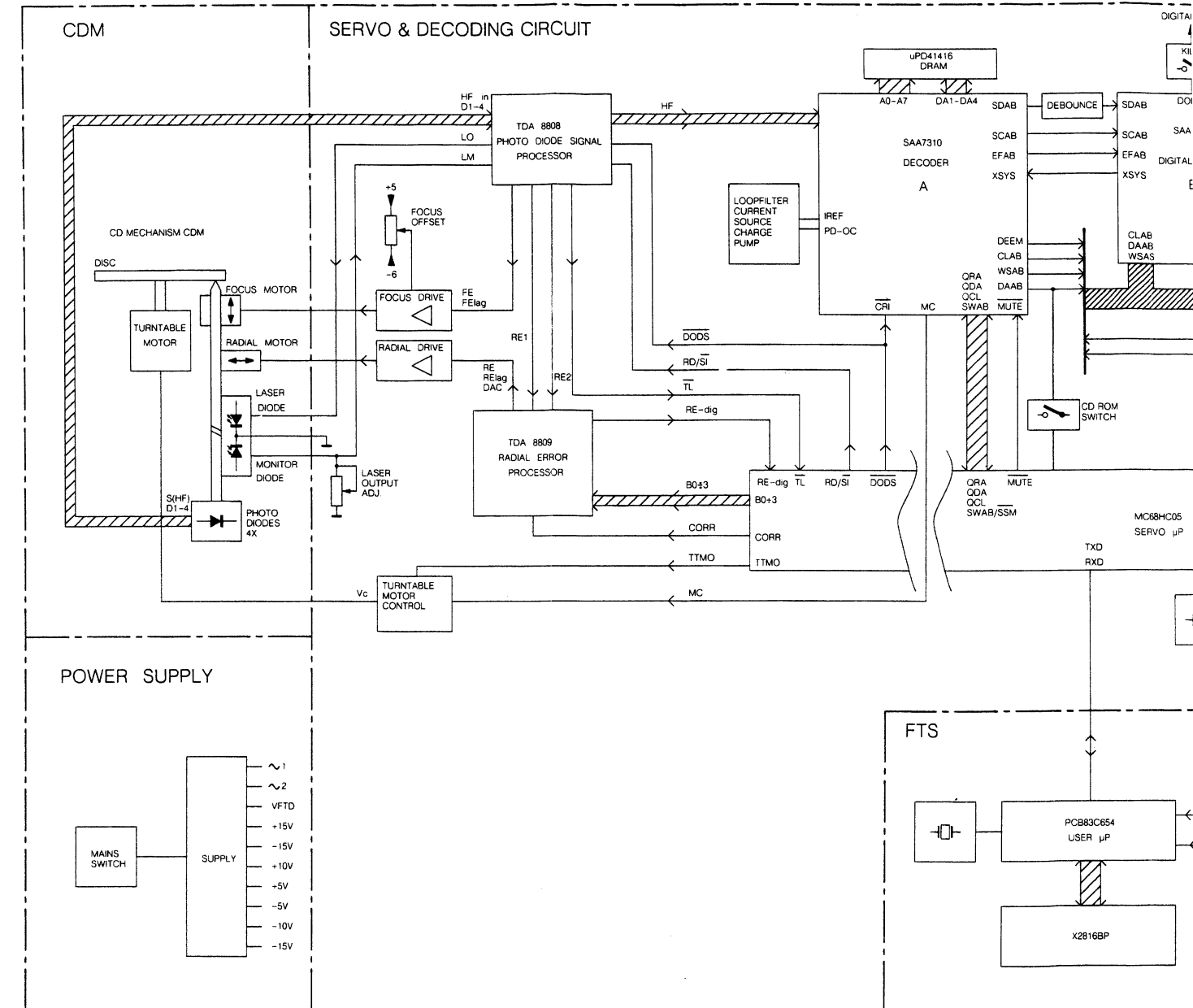
AGC - Automatic Gain Control
 B0-B3 - Control bits for radial circuit
 BEQ - Equalizer reference current input
 BGC - DC and LF gain control reference input
 Cosc1 - Capacitor wobble oscillator
 Cosc2 - Capacitor wobble oscillator
 DEC - Decoupling input internal bypass
 DET - HF detector voltage input
 DIV4 - Divide by 4 input
 DODS - Drop out detector suppression
 D1+4 - Photodiode currents
 FE - Focus error signal
 FE lag - Focus error signal for LAG network
 HF - HF output for DEMOD
 HFD - HF detector output for DEMOD
 HF-in - HF current input to HF amplifier
 HF-out - HF amplifier and equalizer voltage output
 LM - Laser monitor diode input
 LO - Laser amplifier current output
 MC - Motor control signal
 offset IN - Offset control input
 offset OUT - Offset control output
 PLLH - PLL on hold output
 RADout - output of RE2-RE1 input
 RE - Radial error signal (Amplified RE₂-RE₁ currents)

ATSB - Attenuation of Audio level in Search position (Cueing)
 ATT - Attenuation
 CD ROM Switch - Digital Data information on disc signal
 CEFM - Clock Eight-to-Fourteen Modulator
 CLAB - Clock signal Decoder-A to Filter-B
 CLBD - Clock signal Filter-B to DAC
 CLI - I²S serial bit clock input
 CORR - 1/2 bit DAC
 CREF - Reference Current
 CRI - Counter Reset Inhibit
 DAAB - Data signal Decoder-A to Filter-B
 DABD - Data signal Filter-B to DAC
 DAI - I²S serial data input
 DEEM - Deemphasis
 DEC - De-emphasis control
 DMUTE - Digital mute
 DOBM - Digital out signal
 EFAB - Error flag Decoder-A to Filter-B
 MCES - Motor speed control
 MUTE - Mute signal

Rosc - Resistor wobble oscillator
 Rwob - Wobble generator input
 RE1 - Radial error signal 1 (summation of amplified currents D₃ and D₄)
 RE2 - Radial error signal 2 (summation of amplified currents D₁ and D₂)
 RE dig - Radial error digital
 RE lag - Radial error signal for LAG network
 Sc - Starting up capacitor input
 Si/RD - On/off control for laser supply and focus circuit. Ready signal, Starting up procedure succesful.
 TL - Track loss output signal
 TTM- - Control voltage for turntable motor
 TTM+ - Control voltage for turntable motor
 Vext- - Supply connection
 Vext+ - Supply connection

MUSB - Soft Mute signal
 OALO - Operational ampl. left output
 OARO - Operational ampl. right output
 PD/OC - Phase detector - oscillator control
 QCL - Q-channel Clock signal
 QDA - Q-channel Data signal
 QRA - Q-channel Request Acknowledge
 SCAB - Subcode clock Decoder-A to Filter-B
 SDAB - Subcode data Decoder-A to Filter-B
 SIN - Tray switch
 SWAB/SSM - Subcode Word/Start-stop motor signal
 TRMOT - Tray motor drive
 TTMO - Motor offset and bandwidth switch
 WSAB - Word select Decoder-A to Filter-B
 WSBD - Word Select Filter-B to DAC
 WSI - I²S word select input
 XIN - Oscillator signal in Decoder-A
 XSYS - Oscillator signal out Filter-B
 BSW - Bandwidth switch turntable motor circuit

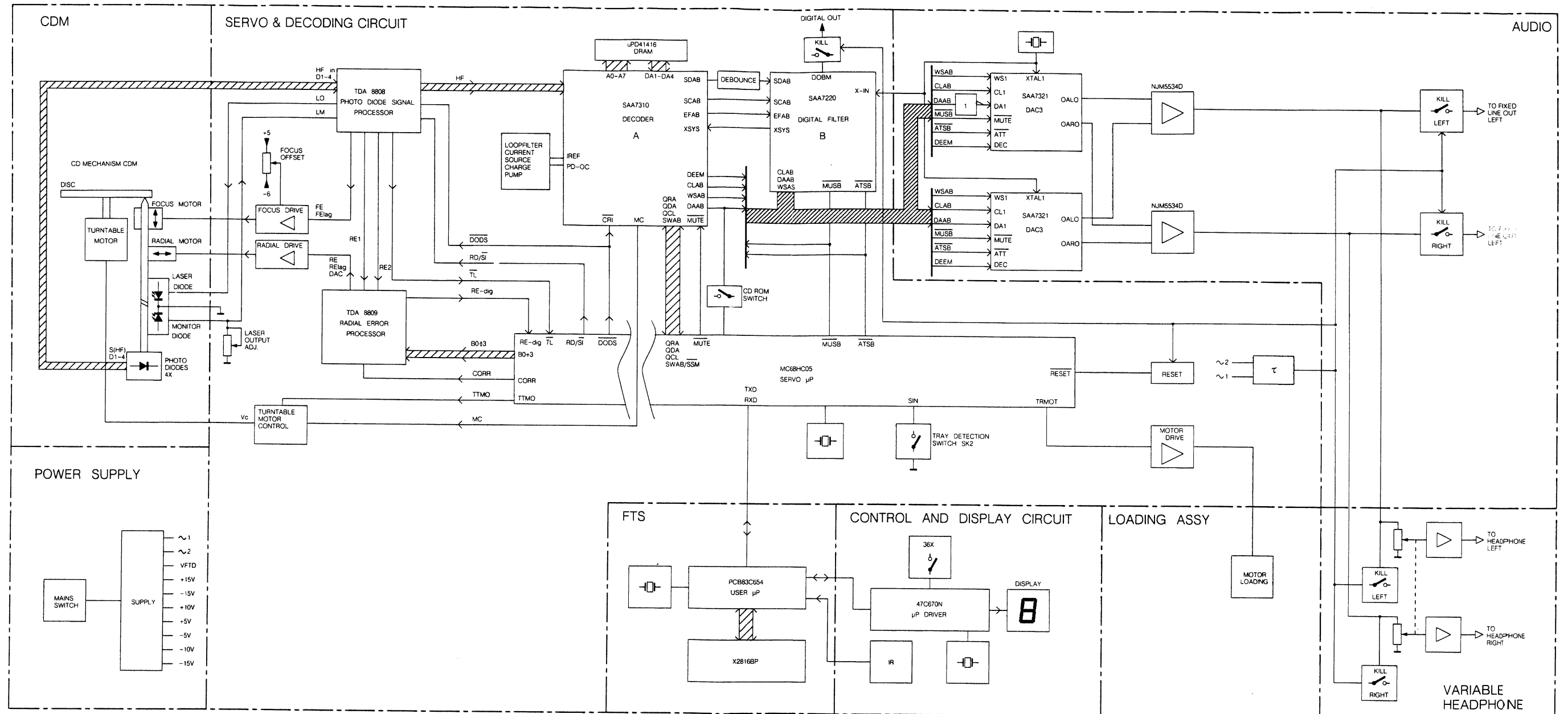
BLOCK DIAGRAM



BLOCK DIAGRAM

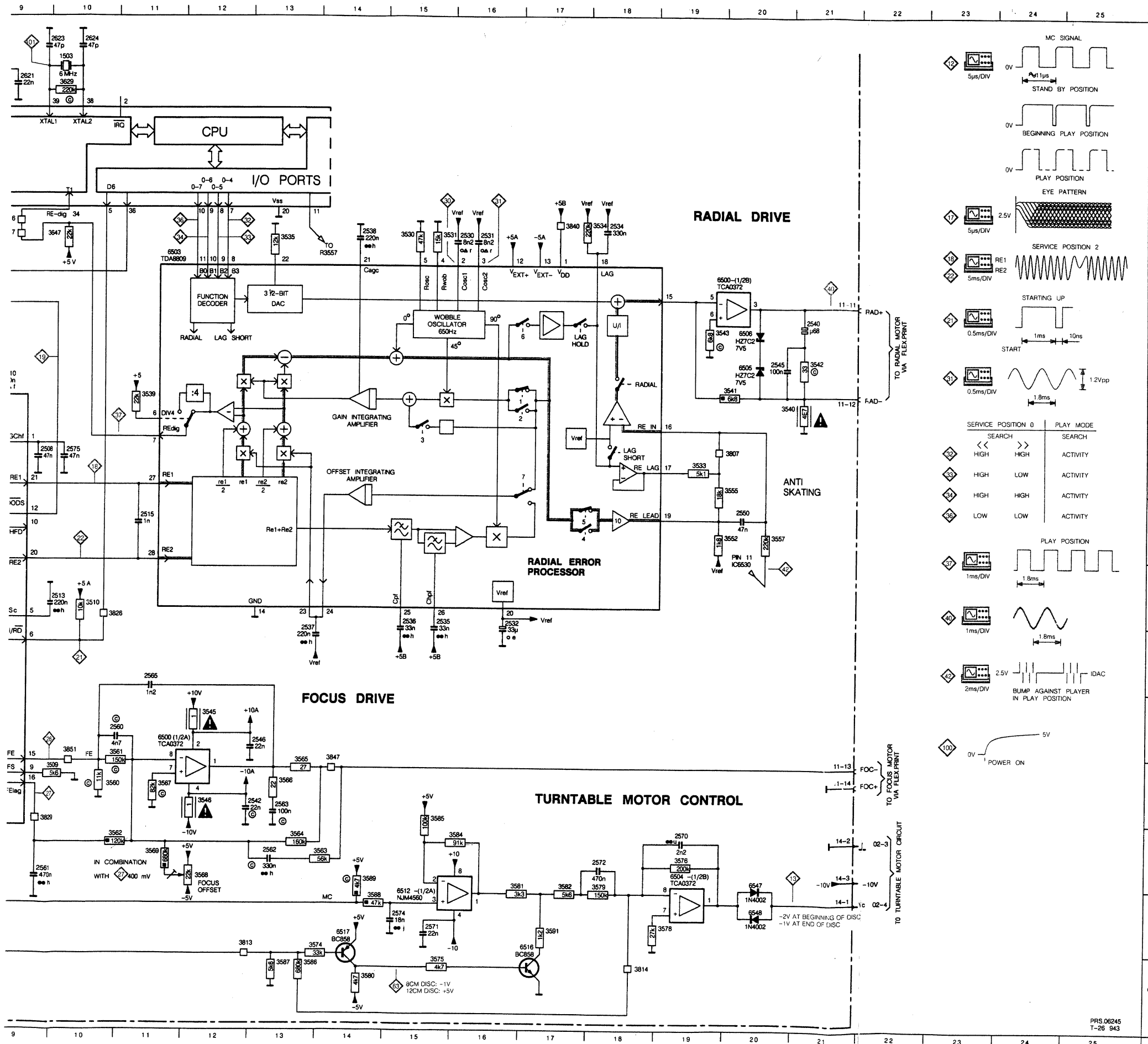
mation of
D₄
mation of
D₂3 network
t
pply and focus
ting upole motor
ole motorout
tput
controlvledge
to Filter-B
to Filter-B

motor signal

1 switch
Filter-B
AC3r-A
-B
e motor circuit

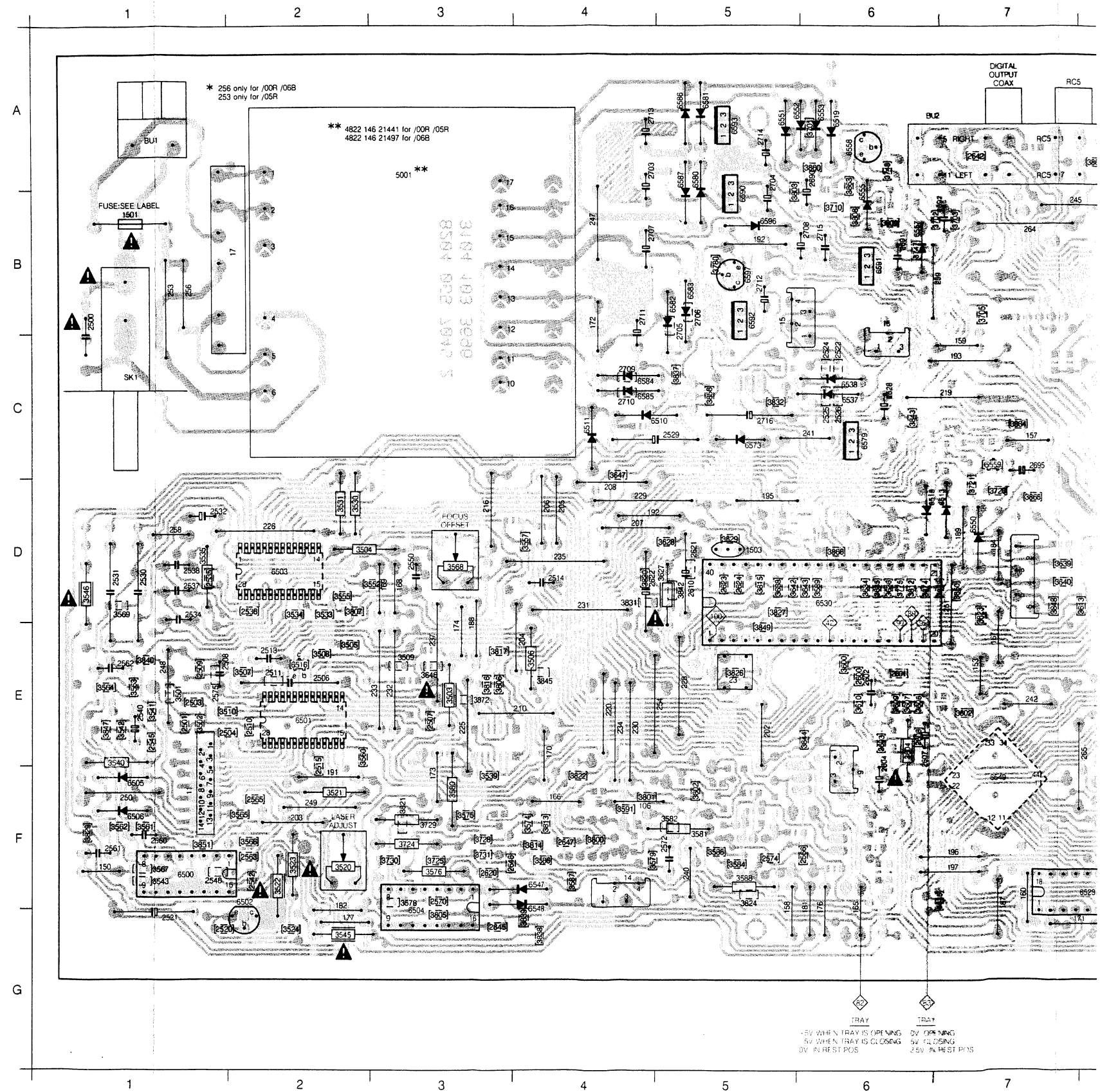
5-5 5-5



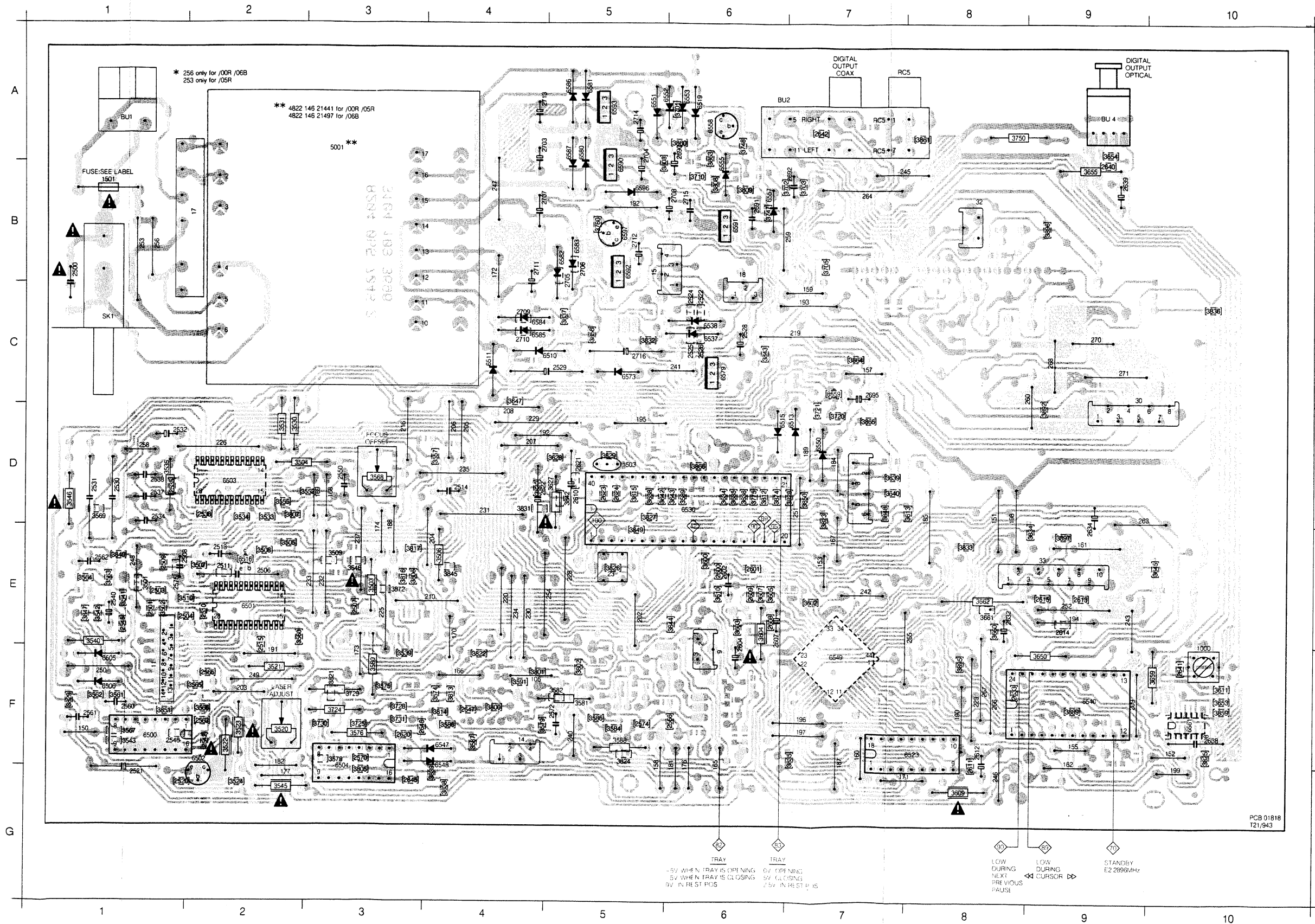


1001 J 1
1002 K 1
1003 J 1
1503 A10
2501 F 2
2503 F 5
2504 F 3
2506 E 5
2507 E 6
2508 G 9
2509 F 9
2510 F 9
2511 F 8
2513 I 10
2514 E 7
2515 H11
2520 J 3
2521 J 3
2530 D16
2531 D16
2532 I 18
2534 C18
2535 I 15
2536 I 15
2537 J13
2538 D14
2540 E21
2542 L13
2545 F20
2546 K13
2550 H20
2560 K11
2561 M 9
2562 M13
2563 L13
2565 J11
2570 M19
2571 N15
2572 M18
2574 N15
2575 G10
2620 A 9
2621 A 9
2622 A 7
2623 A10
2624 A10
3501 F 3
3502 F 3
3503 E 4
3504 E 5
3505 E 7
3506 E 6
3507 E 8
3508 E 6
3509 L10
3510 L10
3520 L 3
3521 L 3
3522 J 3
3523 J 2
3524 J 3
3530 D15
3531 D15
3533 G19
3534 C18
3535 D13
3539 F11
3540 F20
3541 F20
3542 F21
3543 E19
3545 K12
3546 L12
3552 H20
3555 G20
3557 H20
3560 L10
3561 K11
3562 M11
3563 M14
3564 M13
3565 L13
3566 L13
3567 L11
3568 M12
3569 M11
3574 N14
3575 O15
3576 M19
3578 N19
3579 M18
3580 O14
3581 M18
3582 M17
3584 M15
3585 L15
3586 O13
3587 O13
3588 N14
3589 M14
3591 N17
3627 A 9
3628 A 8
3629 A10
3646 D 8
3647 D10
3807 G20
3813 N12
3814 O18
3815 D 8
3816 C 9
3817 D 9
3826 I 10
3829 L 9
3840 C17
3845 B 3
3847 L14
3851 K10
3872 D 7
6500 D19
6500 K11
6502 J 3
6503 D11
6504 M19
6505 F20
6506 E20
6512 N15
6516 N17
6517 N14
6530 A 5
6547 M20
6548 N20

SERVO + DECODING PANEL

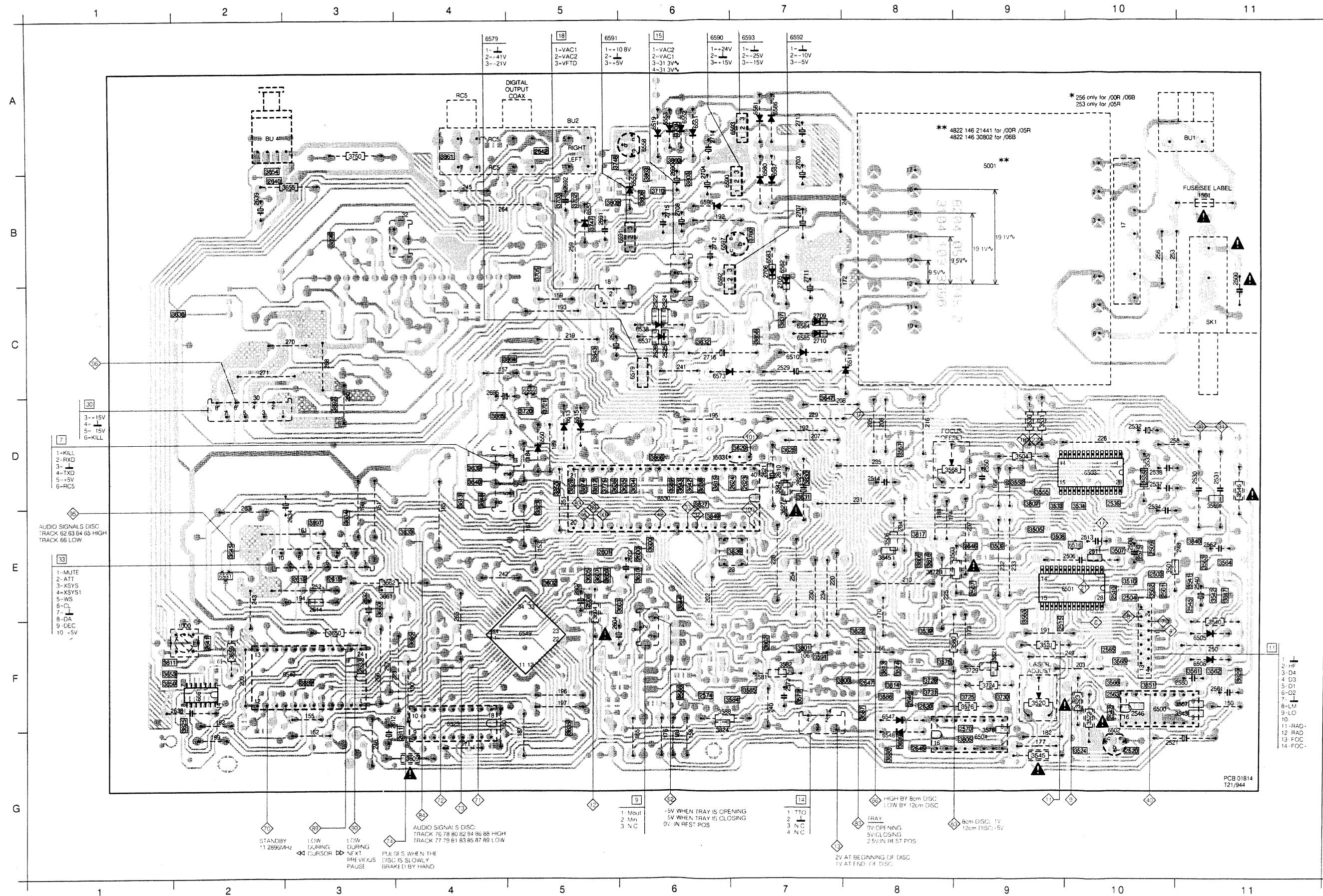


SERVO + DECODING PANEL

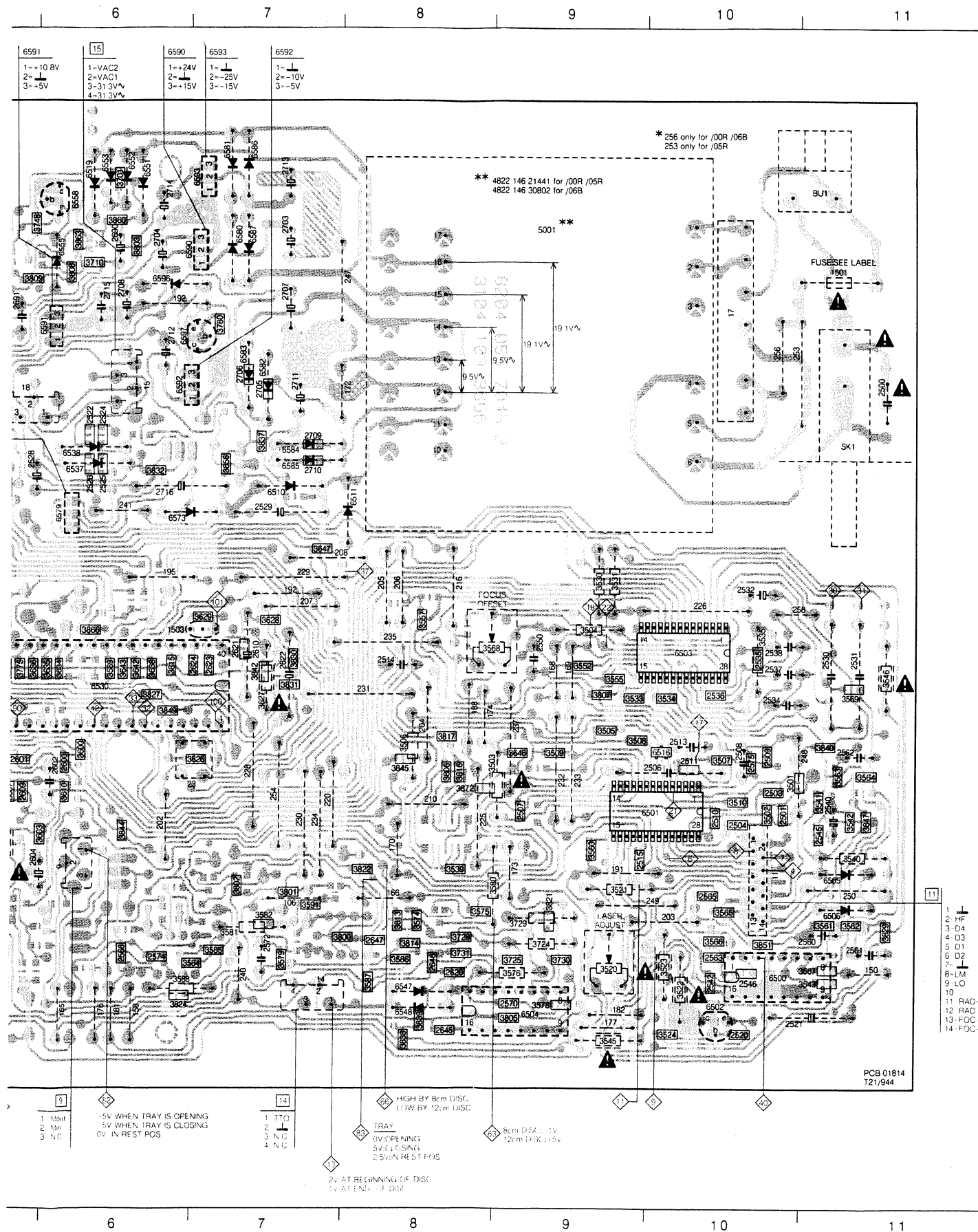


7 D7	2510 E2	2714 A5	3636 D6	3835 F7
9 F6	2510 E2	2715 B6	3636 D6	3836 C10
11 F1	2511 E2	2716 C5	3638 D5	3836 C10
14 F4	2511 E2	3501 E1	3638 D5	3837 C5
15 B5	2513 E2	3501 E1	3639 D7	3837 C5
17 B2	2514 D4	3502 E1	3639 F3	3838 G4
18 B6	2515 F2	3502 E1	3640 D7	3838 G4
23 E5	2515 F2	3503 E3	3640 D7	3839 G4
30 C9	2520 G1	3504 D2	3642 D5	3839 G4
32 B8	2520 G1	3505 E2	3642 D5	3840 E1
33 E9	2521 G1	3505 E2	3643 D8	3840 E1
106 F4	2522 C6	3506 E4	3643 D8	3842 D5
150 F1	2522 C6	3507 E2	3645 E10	3842 D5
151 E8	2524 C6	3507 E2	3645 E10	3843 C6
152 F10	2524 C6	3508 E2	3646 E3	3843 C6
153 E7	2525 C6	3508 E2	3646 E3	3844 E5
155 F9	2525 C6	3509 E3	3647 C4	3844 E9
157 C7	2526 C6	3509 E3	3647 C4	3845 E4
158 G5	2526 C6	3510 E1	3650 F9	3845 E4
159 G7	2528 C6	3510 E1	3653 F10	3847 E1
160 F7	2529 E5	3520 F2	3653 F10	3847 E1
161 E9	2530 D1	3521 F2	3654 A9	3848 D7
162 F9	2531 D1	3522 F2	3654 A9	3848 D7
165 G6	2532 D1	3523 F2	3655 B9	3849 E5
166 F4	2534 D1	3524 G2	3659 F10	3849 E5
167 E7	2535 D1	3524 G2	3660 E8	3849 E5
168 D3	2535 D1	3530 D2	3660 E8	3850 D7
169 D3	2536 D2	3531 D2	3661 E8	3851 F1
170 E4	2536 D2	3533 D2	3661 E8	3851 F1
171 C7	2537 D1	3533 D2	3662 E8	3856 C5
172 C4	2538 D1	3534 D2	3662 E8	3856 C5
173 F3	2540 E1	3534 D2	3662 E8	3859 F10
174 E3	2542 F2	3535 D1	3662 E8	3859 F10
176 G6	2542 F2	3539 F3	3662 E8	3860 A6
177 G2	2545 E1	3539 F3	3662 E8	3860 A6
181 G6	2545 E1	3540 E1	3662 E8	3861 A8
182 F2	2546 F1	3541 E1	3662 E8	3861 A8
184 D7	2546 F1	3541 E1	3662 E8	3861 A8
185 E8	2550 D3	3542 E1	3662 E8	3861 A8
187 G7	2550 F1	3542 E1	3662 E8	3861 A8
188 E3	2551 F1	3543 F1	3662 E8	3861 A8
189 D7	2552 E1	3543 F1	3662 E8	3861 A8
190 F8	2553 F2	3545 G2	3662 E8	3861 A8
191 F2	2553 F2	3546 D1	3662 E8	3861 A8
192 B5	2555 F2	3546 D1	3662 E8	3861 A8
192 D4	2555 F2	3546 D1	3662 E8	3861 A8
193 C7	2556 F6	3555 D2	3662 E8	3861 A8
194 E9	2556 F6	3555 D2	3662 E8	3861 A8
195 D5	2557 F3	3557 D4	3662 E8	3861 A8
196 F7	2557 F3	3557 D4	3662 E8	3861 A8
197 F7	2557 F3	3557 D4	3662 E8	3861 A8
198 E8	2557 F3	3557 D4	3662 E8	3861 A8
199 G10	2557 F3	3557 D4	3662 E8	3861 A8
202 E5	2557 F3	3557 D4	3662 E8	3861 A8
203 E5	2557 F3	3557 D4	3662 E8	3861 A8
204 E4	2600 E6	3563 E1	3662 E8	3861 A8
205 D4	2600 E6	3563 E1	3662 E8	3861 A8
206 D4	2600 E6	3563 E1	3662 E8	3861 A8
207 D4	2600 E6	3563 E1	3662 E8	3861 A8
208 D4	2600 E6	3563 E1	3662 E8	3861 A8
209 F9	2604 F6	3565 F2	3662 E8	3861 A8
210 E3	2607 F6	3565 F2	3662 E8	3861 A8
216 D3	2608 E6	3566 F2	3662 E8	3861 A8
219 C6	2608 E6	3566 F2	3662 E8	3861 A8
220 E4	2609 E6	3567 F1	3662 E8	3861 A8
223 F8	2609 E6	3567 F1	3662 E8	3861 A8
225 E3	2610 D5	3568 D3	3662 E8	3861 A8
226 D2	2611 G8	3569 D1	3662 E8	3861 A8
228 E5	2611 G8	3569 D1	3662 E8	3861 A8
229 D4	2612 F8	3574 F4	3662 E8	3861 A8
230 E4	2613 E9	3574 F4	3662 E8	3861 A8
231 D4	2613 E9	3575 F3	3662 E8	3861 A8
232 E3	2614 E9	3575 F3	3662 E8	3861 A8
233 E3	2614 E9	3575 F3	3662 E8	3861 A8
234 E4	2615 E9	3578 F3	3662 E8	3861 A8
235 D4	2615 E9	3578 F3	3662 E8	3861 A8
237 E3	2620 F3	3579 F4	3662 E8	3861 A8
240 F5	2620 F3	3579 F4	3662 E8	3861 A8
241 F5	2621 D5	3580 F3	3662 E8	3861 A8
242 E7	2621 D5	3581 F5	3662 E8	3861 A8
243 E9	2622 D4	3582 F5	3662 E8	3861 A8
245 B7	2623 D5	3582 F5	3662 E8	3861 A8
246 G8	2623 D5	3584 F5	3662 E8	3861 A8
247 B4	2624 D5	3584 F5	3662 E8	3861 A8
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SERVO + DECODING PANEL

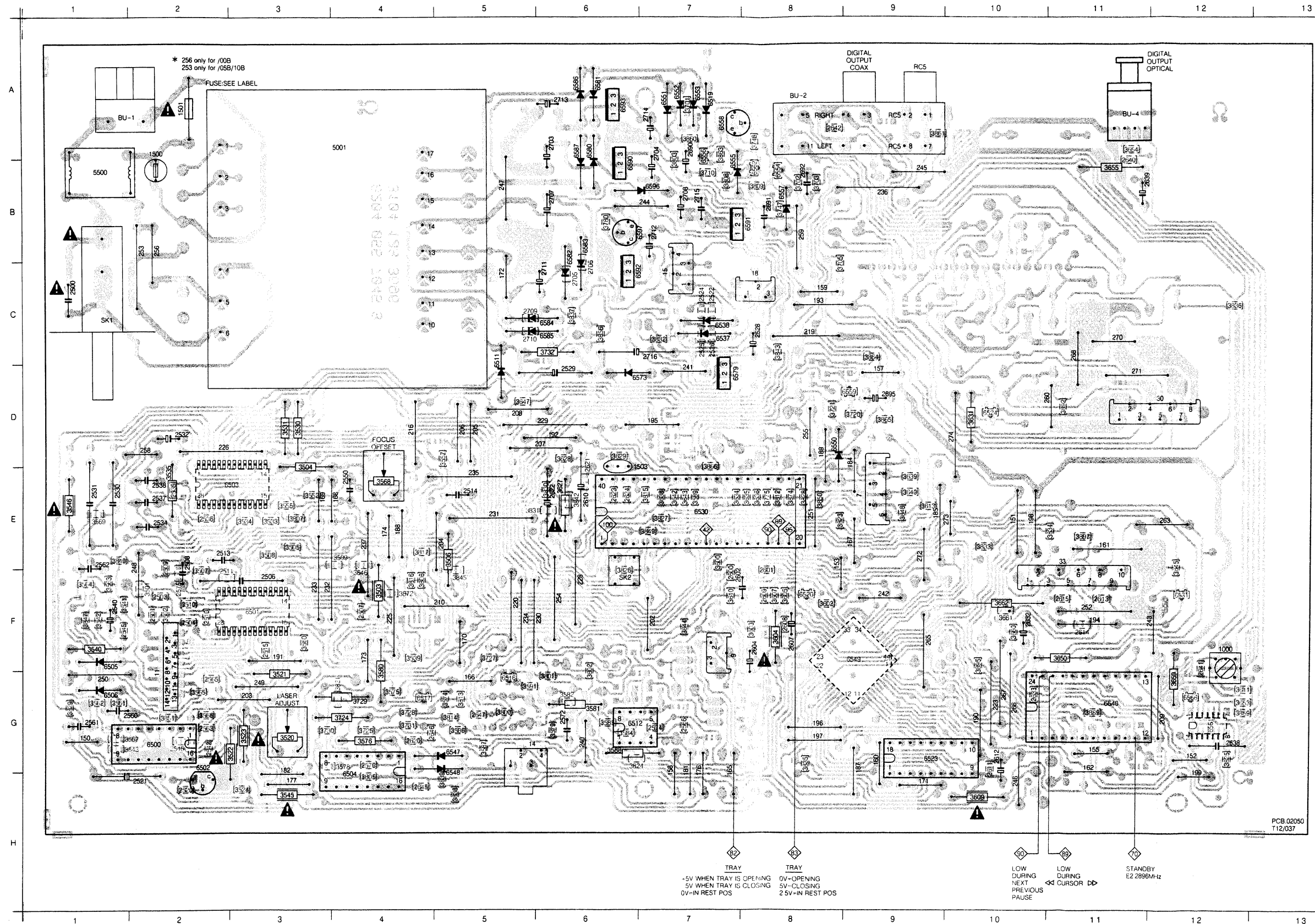


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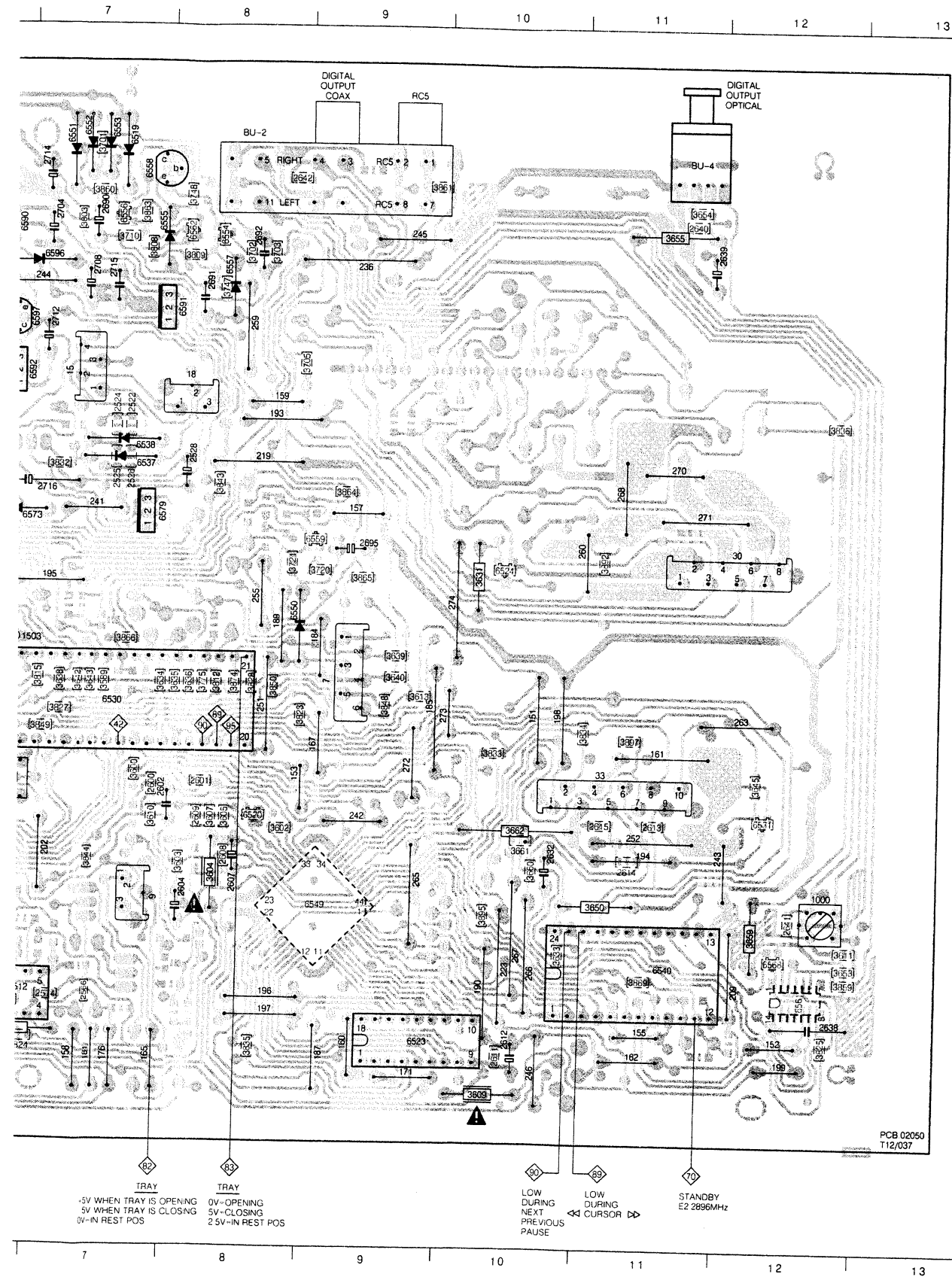


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SERVO + DECODING PANEL COMPONENT SIDE

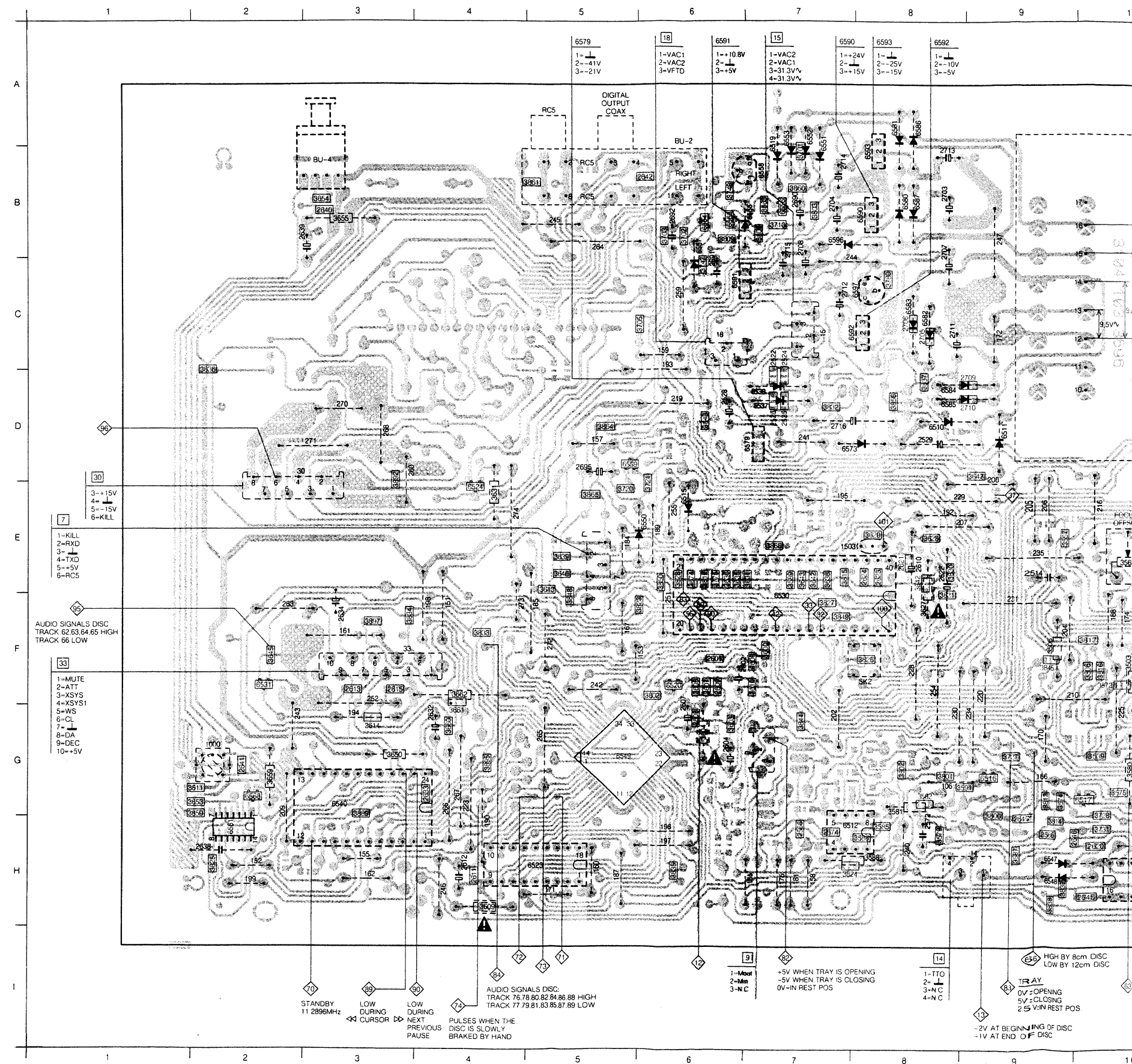


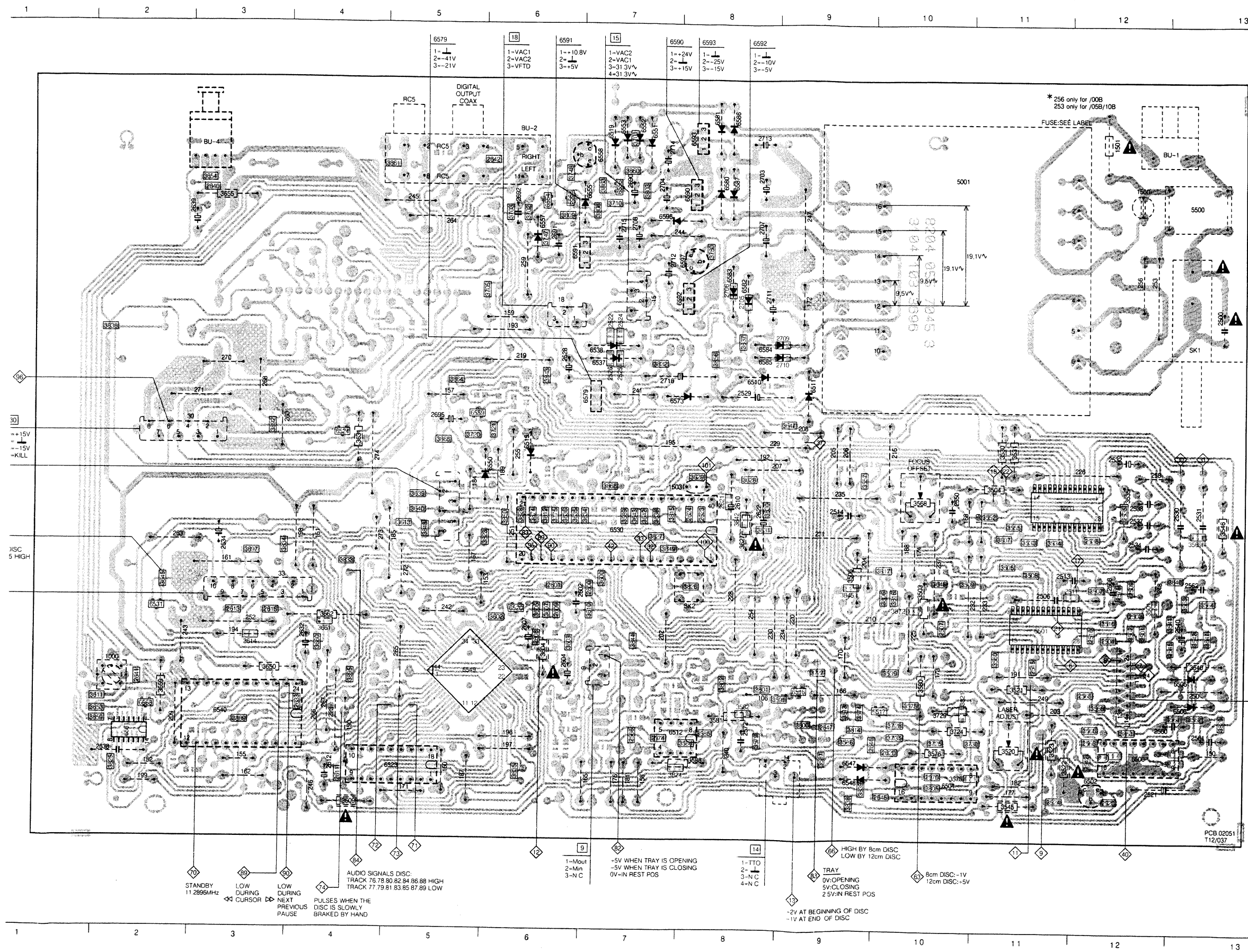
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SERVO + DECODING PANEL SOLDER SIDE

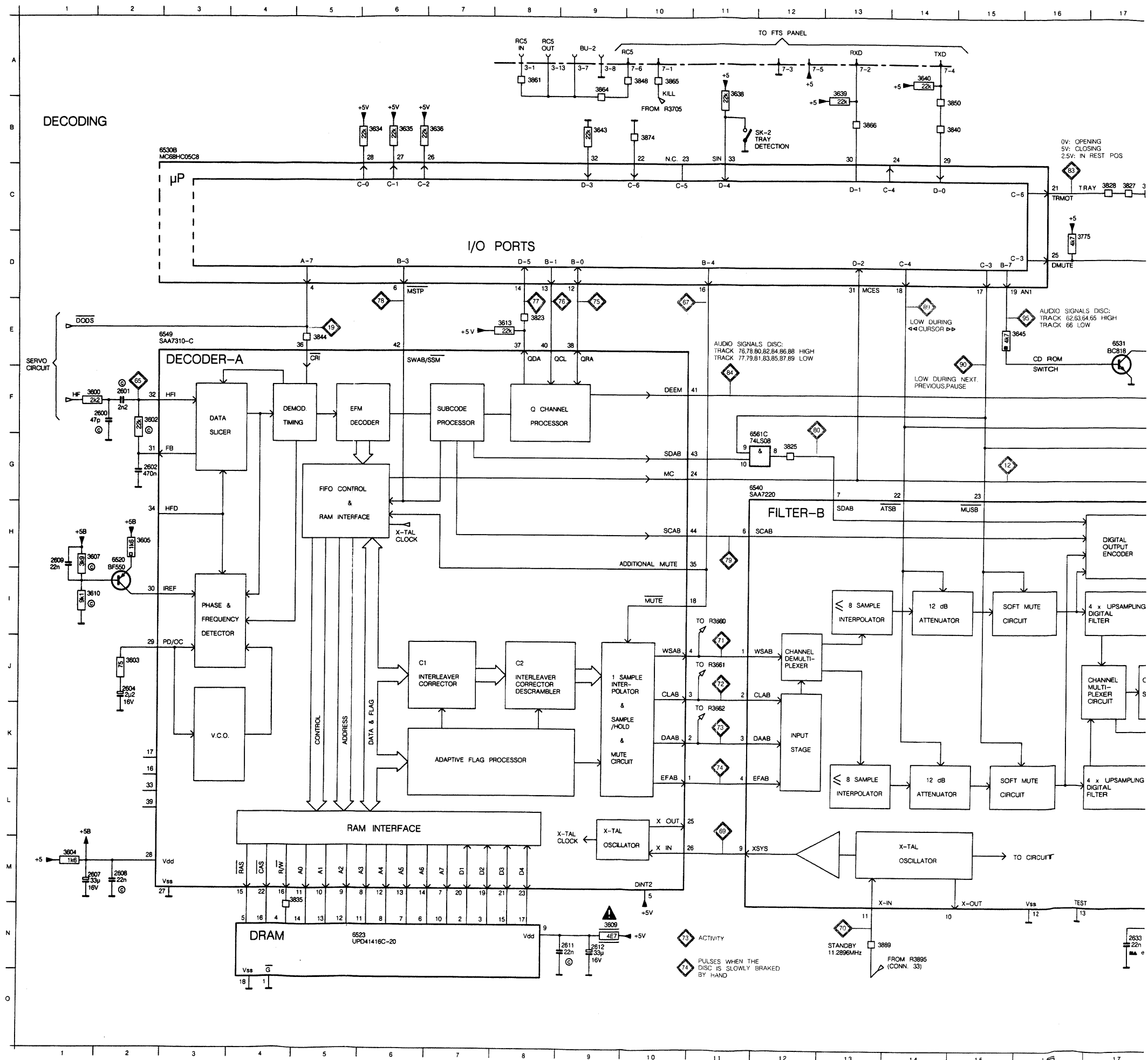


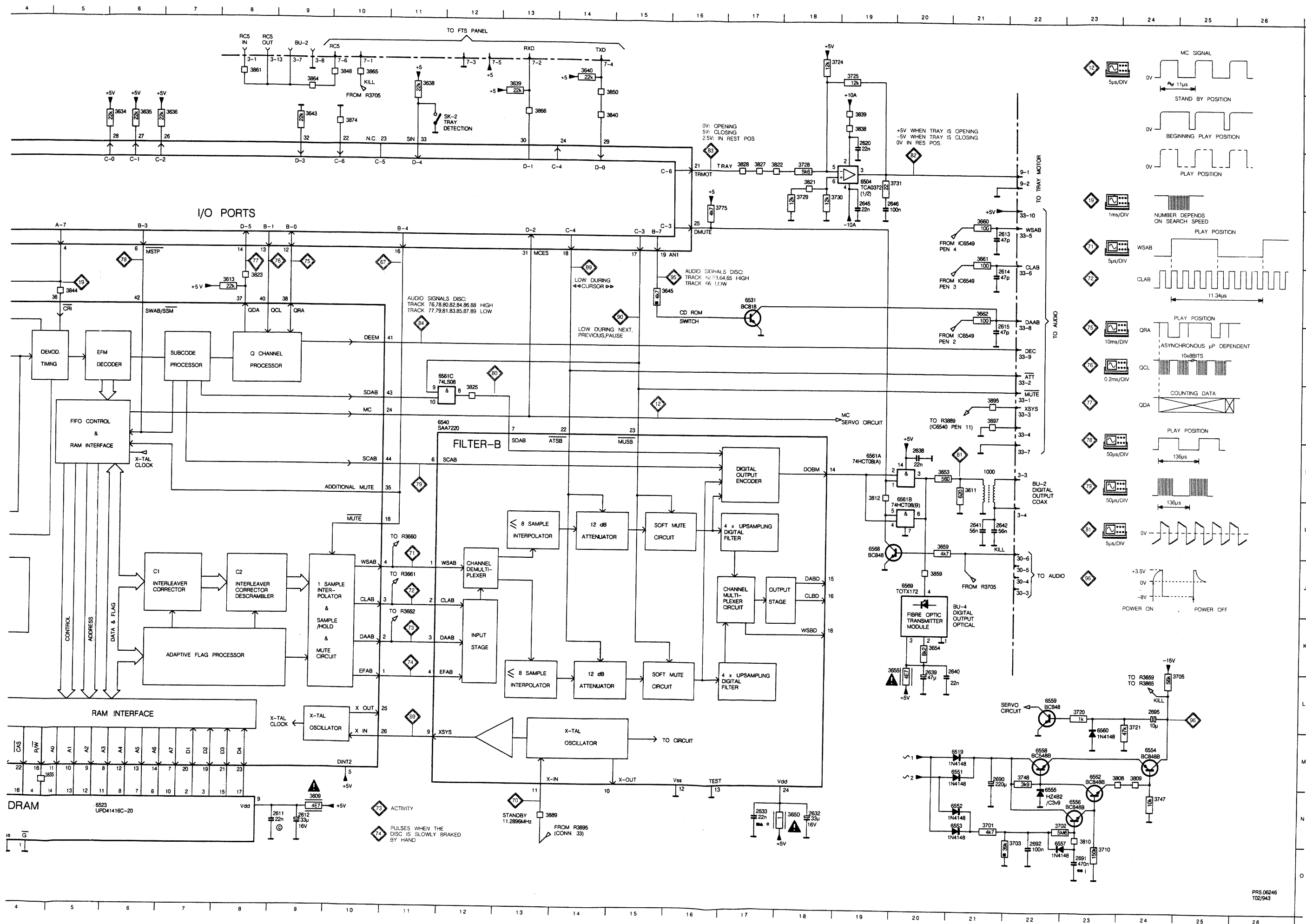


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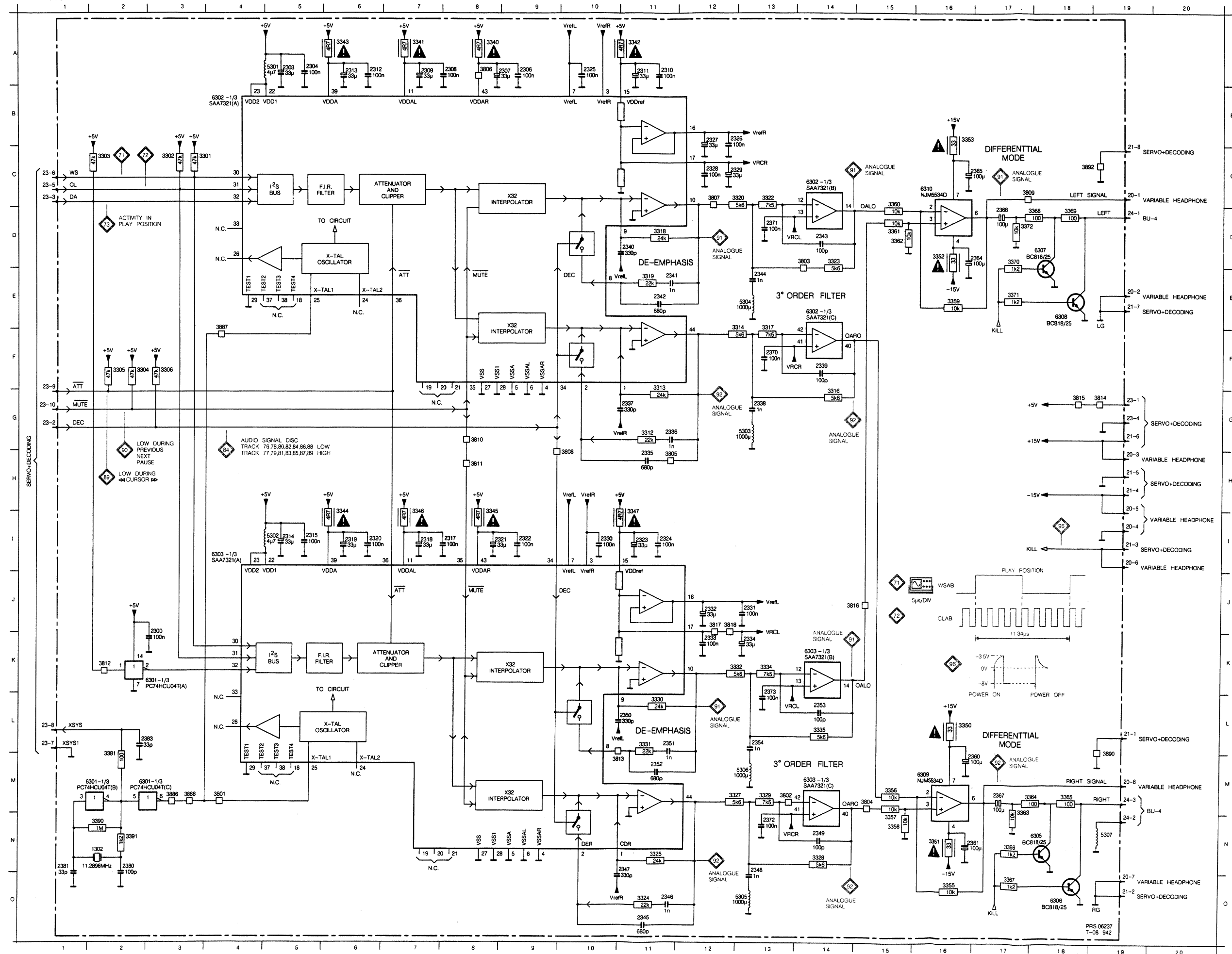
DECODING

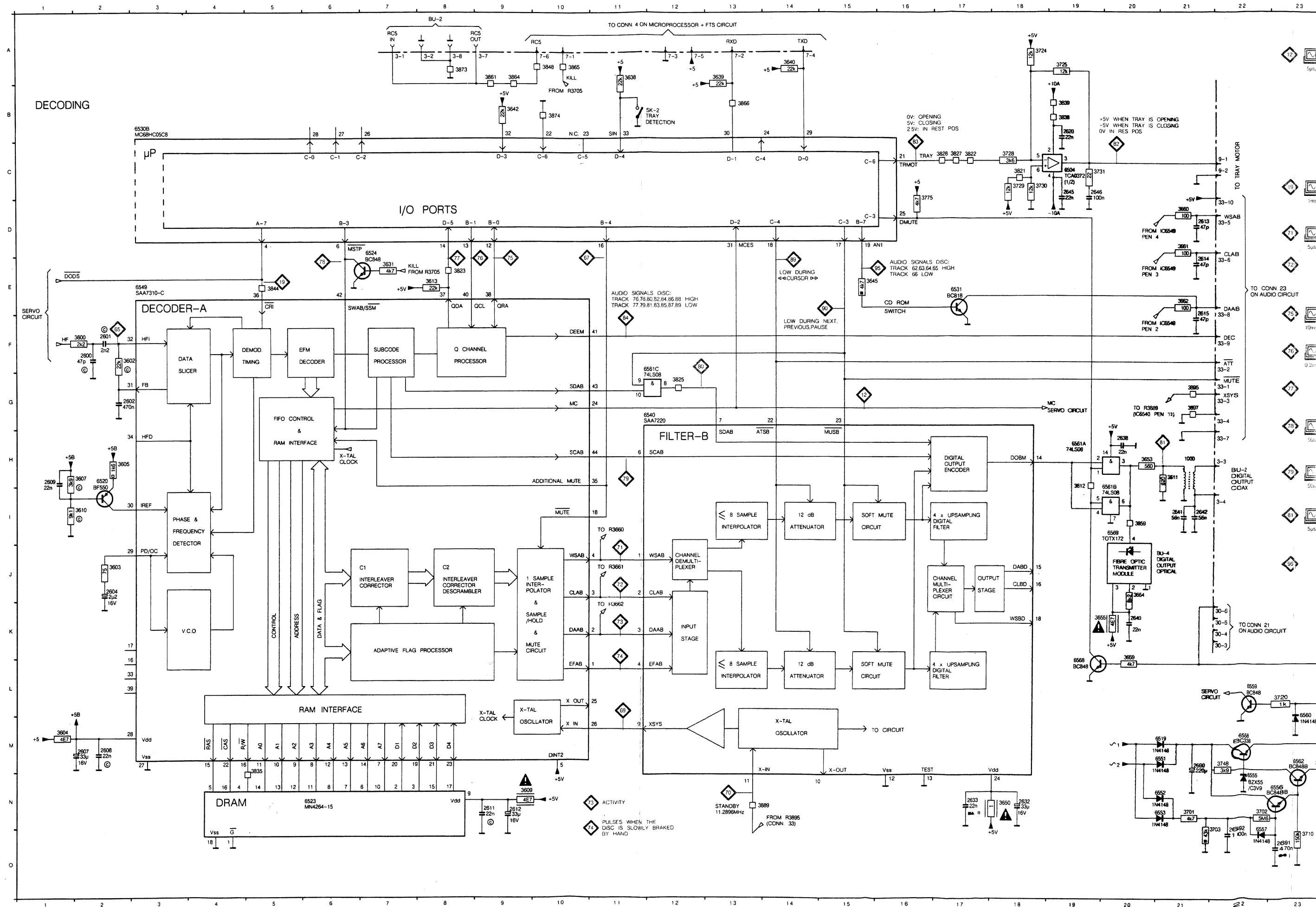
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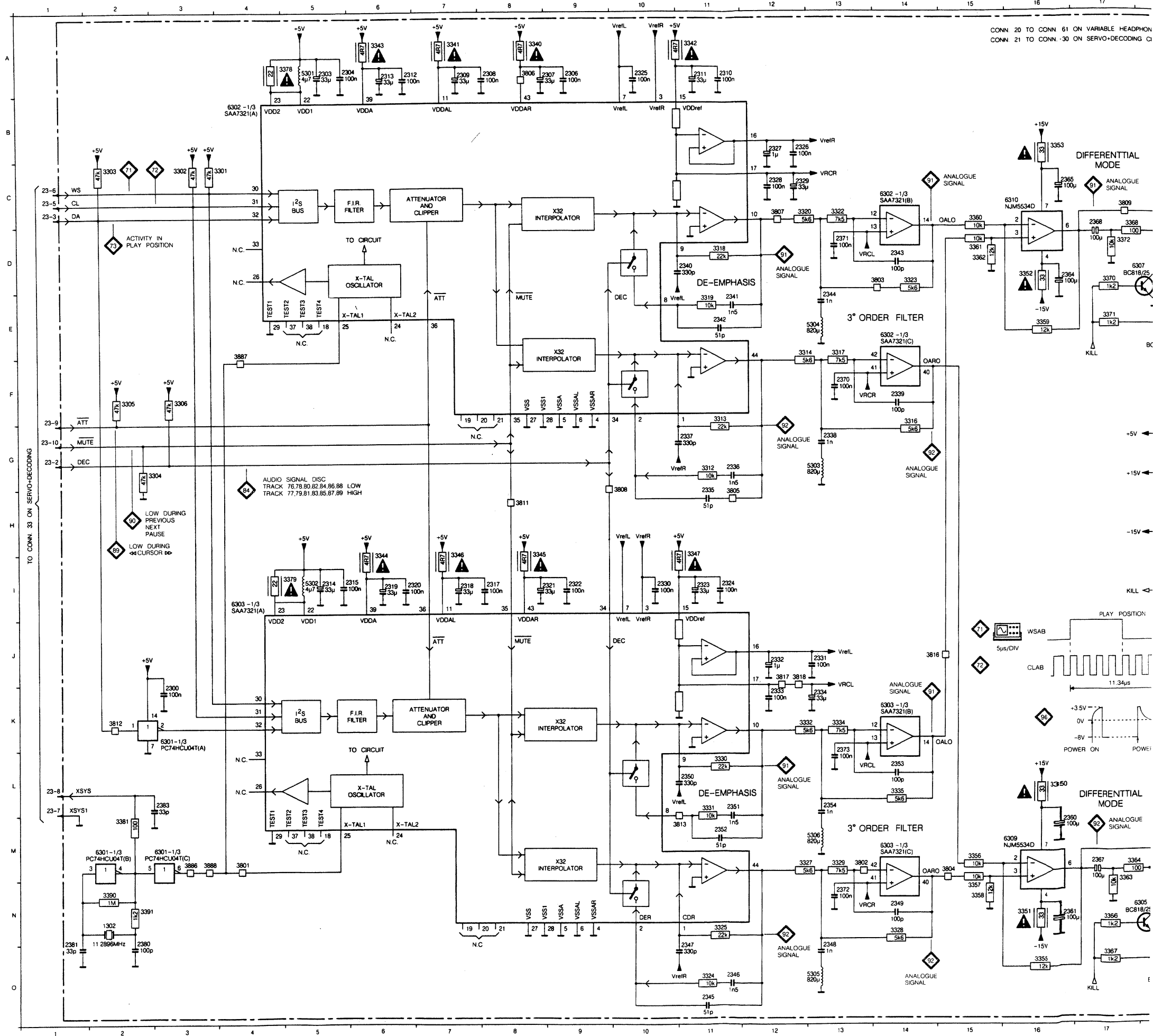
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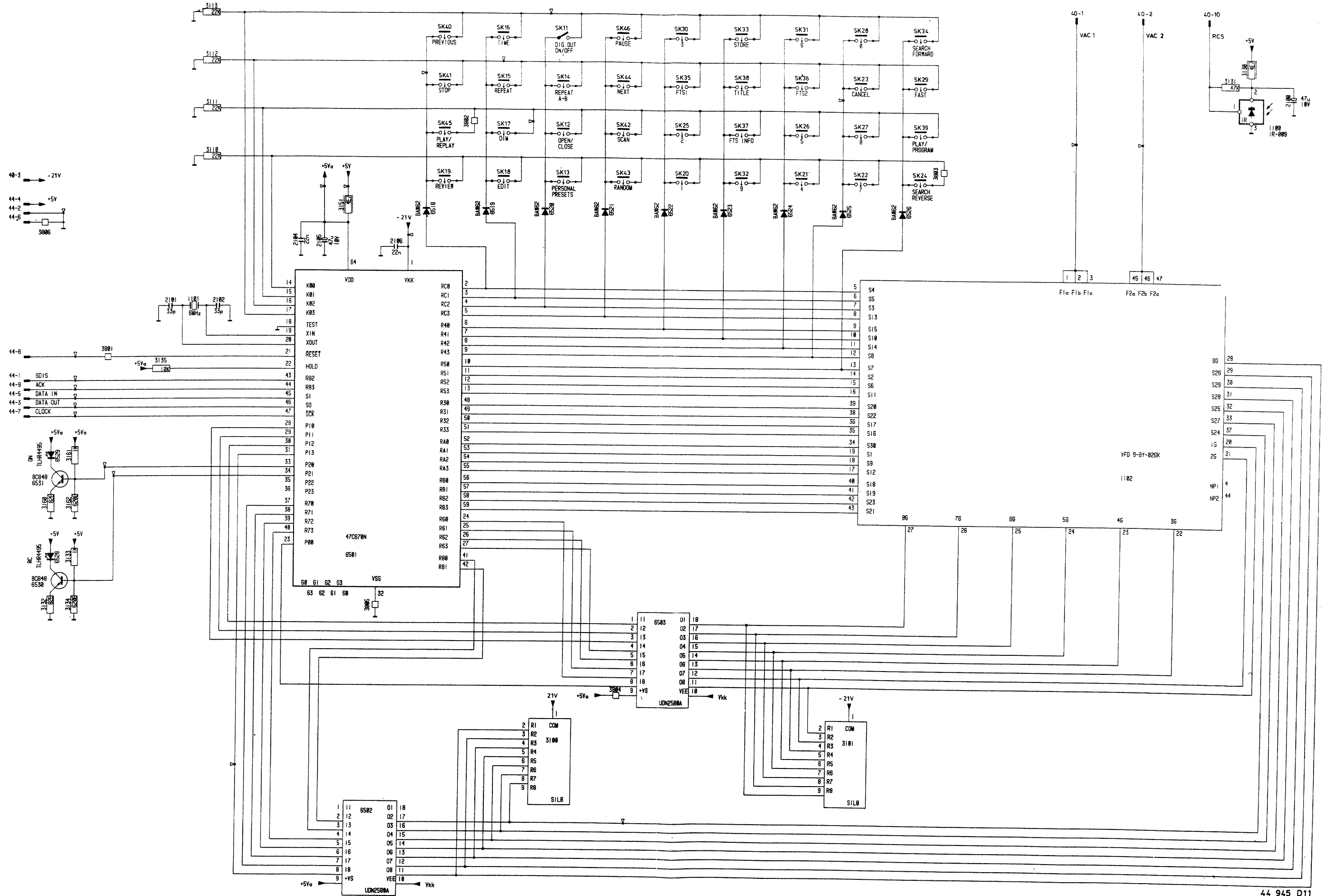
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AUDIO

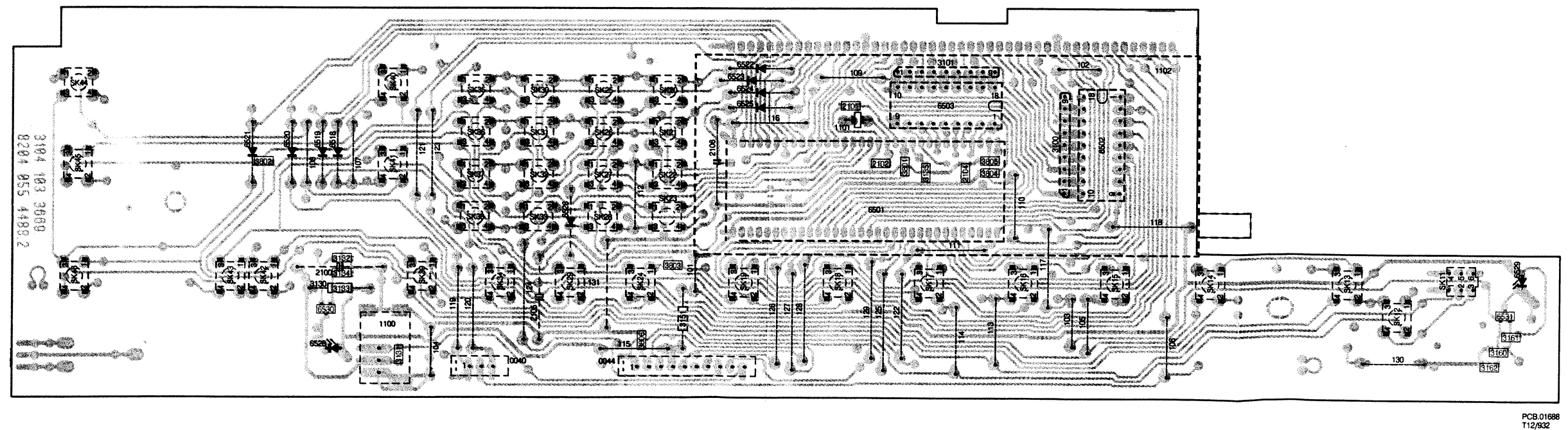
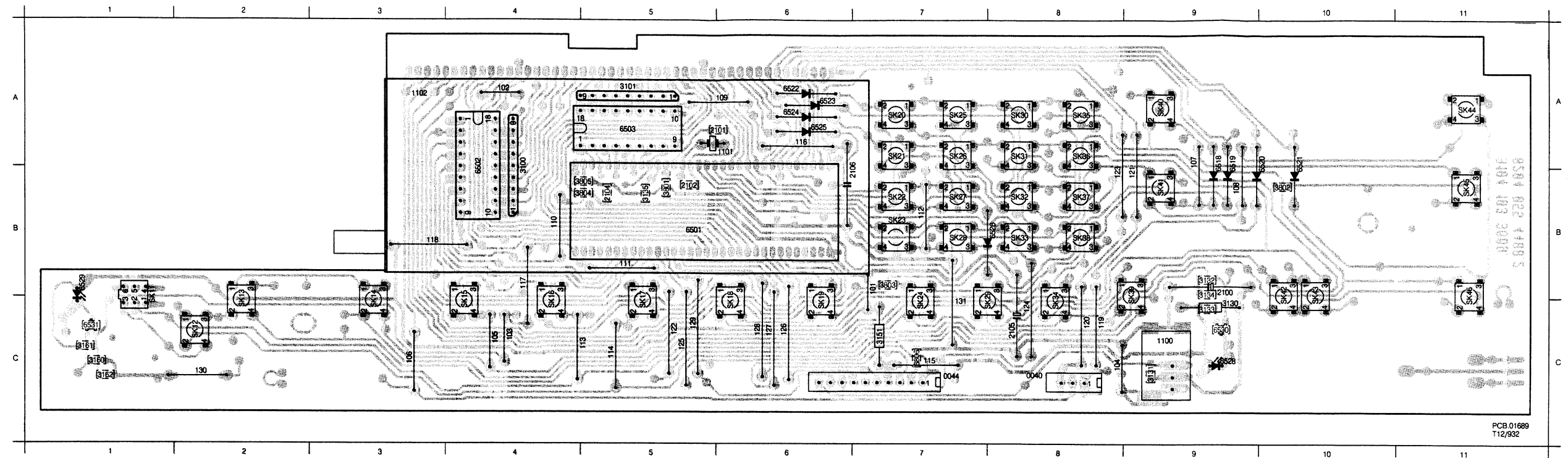


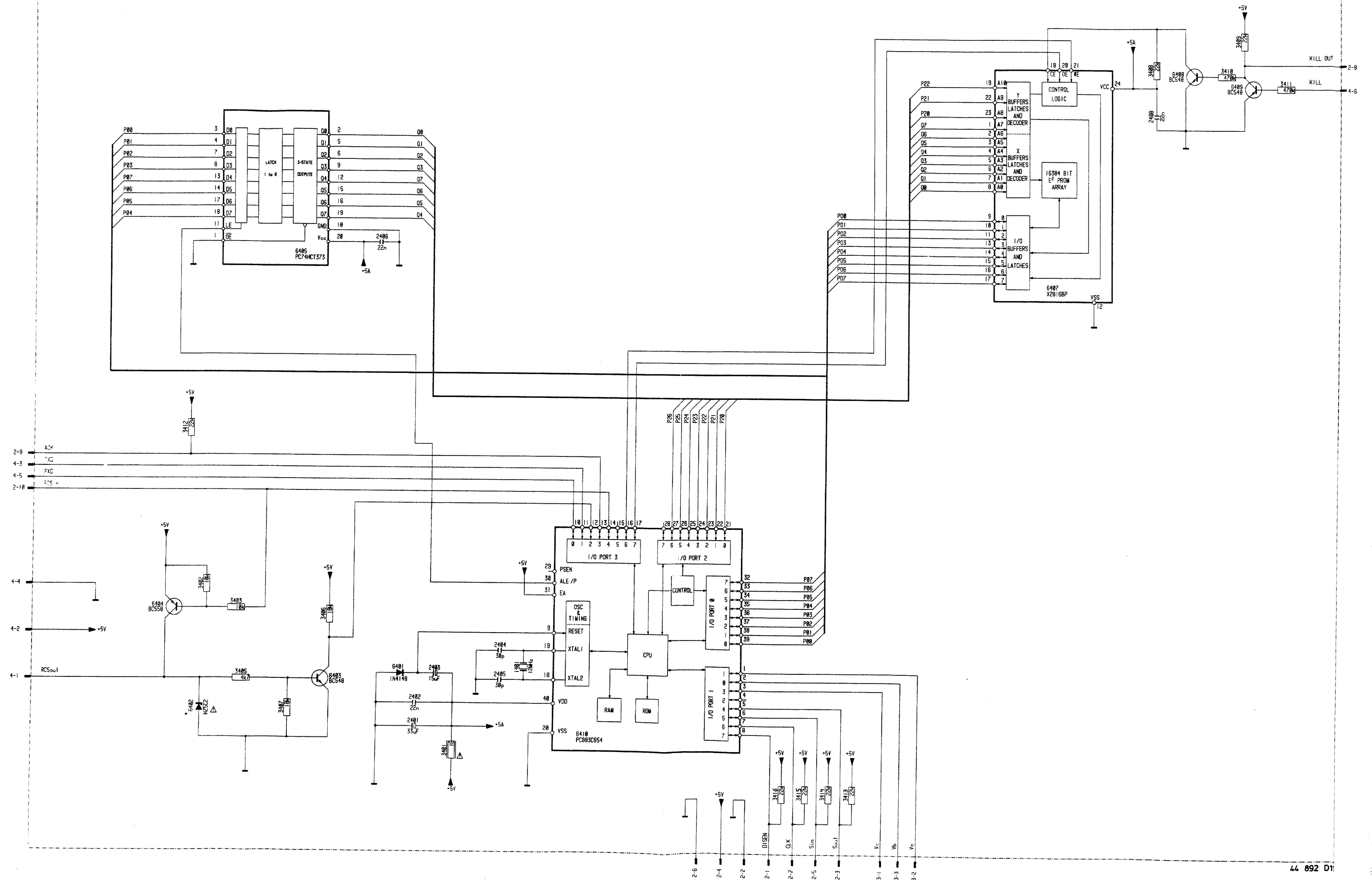
CONTROL AND DISPLAY PANEL

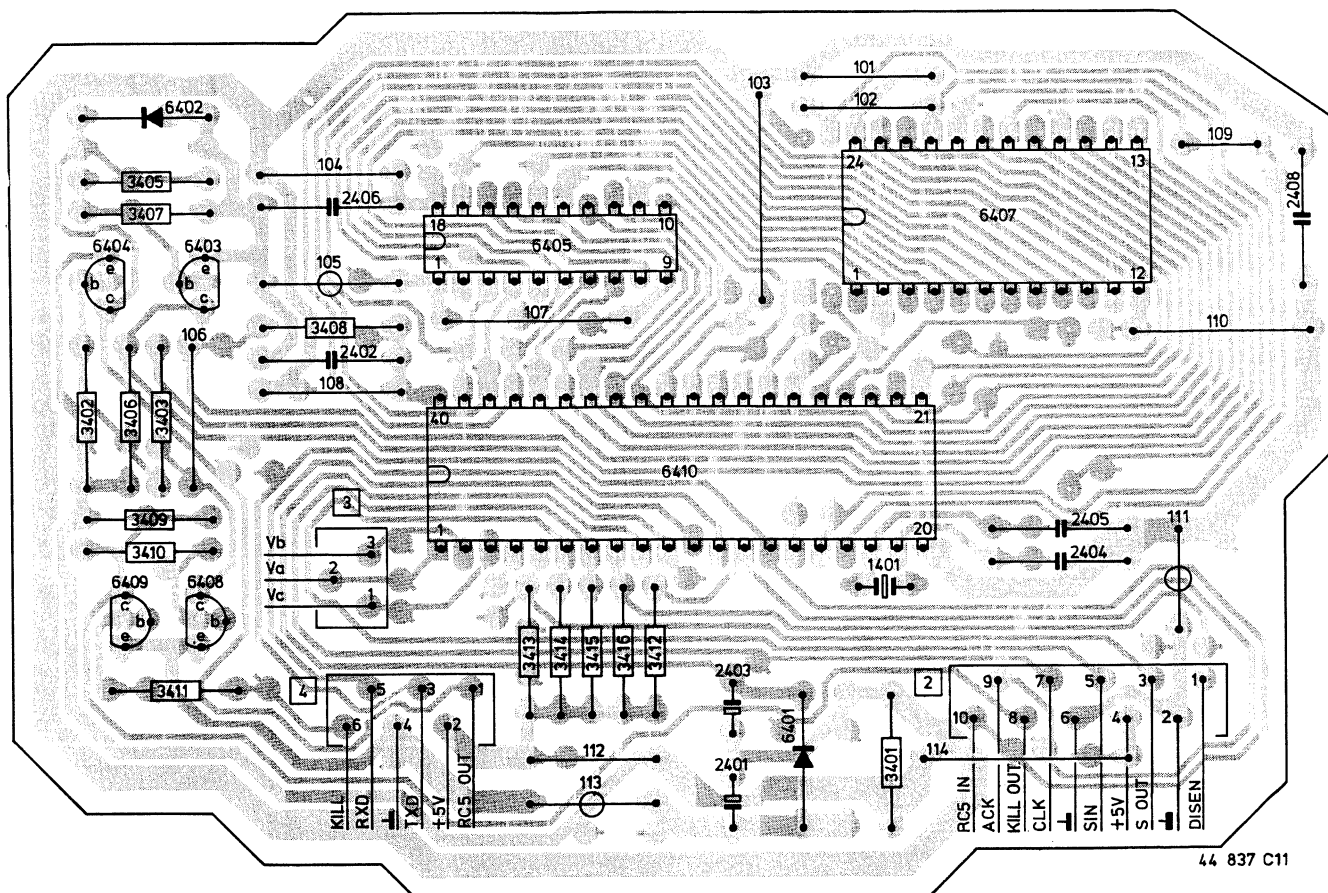
5-11 5-11



101	B 7	106	C 3	111	B 5	116	A 6	121	B 9	126	C 6	0040	C 8	131	C 7	2105	C 8	3131	C 9	3151	C 7	3802	B 10	6501	B 5	6520	A 10	6525	A 6	6531	C 1	SK15	C 4	SK20	A 7	SK25	A 7	SK30	A 8	SK35	A 8	SK40	A 9	SK45	B 11
102	A 4	107	A 9	112	B 7	117	B 4	122	C 5	127	C 6	0044	C 7	2100	B 9	2105	A 6	3132	B 9	3160	C 1	3803	B 7	6502	A 4	6521	A 10	6526	B 8	SK11	B 1	SK16	C 4	SK21	A 7	SK26	A 7	SK31	A 8	SK36	A 8	SK41	B 9	SK46	B 11
103	C 4	108	B 9	113	C 5	118	B 3	123	B 8	128	C 6	1100	C 9	2101	A 6	3100	A 4	3133	B 9	3161	C 1	3804	B 5	6503	A 5	6522	A 6	6528	C 9	SK12	C 2	SK17	C 5	SK22	B 7	SK27	B 7	SK32	B 8	SK37	B 8	SK42	B 10		
104	C 8	109	A 6	114	C 5	119	C 8	124	C 8	129	C 5	1101	A 6	2102	B 5	3101	A 5	3134	B 9	3162	C 1	3805	B 5	6518	A 9	6523	A 6	6529	B 1	SK13	C 2	SK18	C 6	SK23	B 7	SK28	B 7	SK33	B 8	SK38	B 8	SK43	B 10		
105	C 4	110	B 4	115	C 7	120	C 8	125	C 5	130	C 2	1102	A 3	2104	B 5	3130	C 9	3135	B 5	3801	B 5	3806	C 7	6519	A 9	6524	A 6	6530	C 9	SK14	C 3	SK19	C 6	SK24	C 7	SK29	C 7	SK34	C 8	SK39	B 9	SK44	A 11		

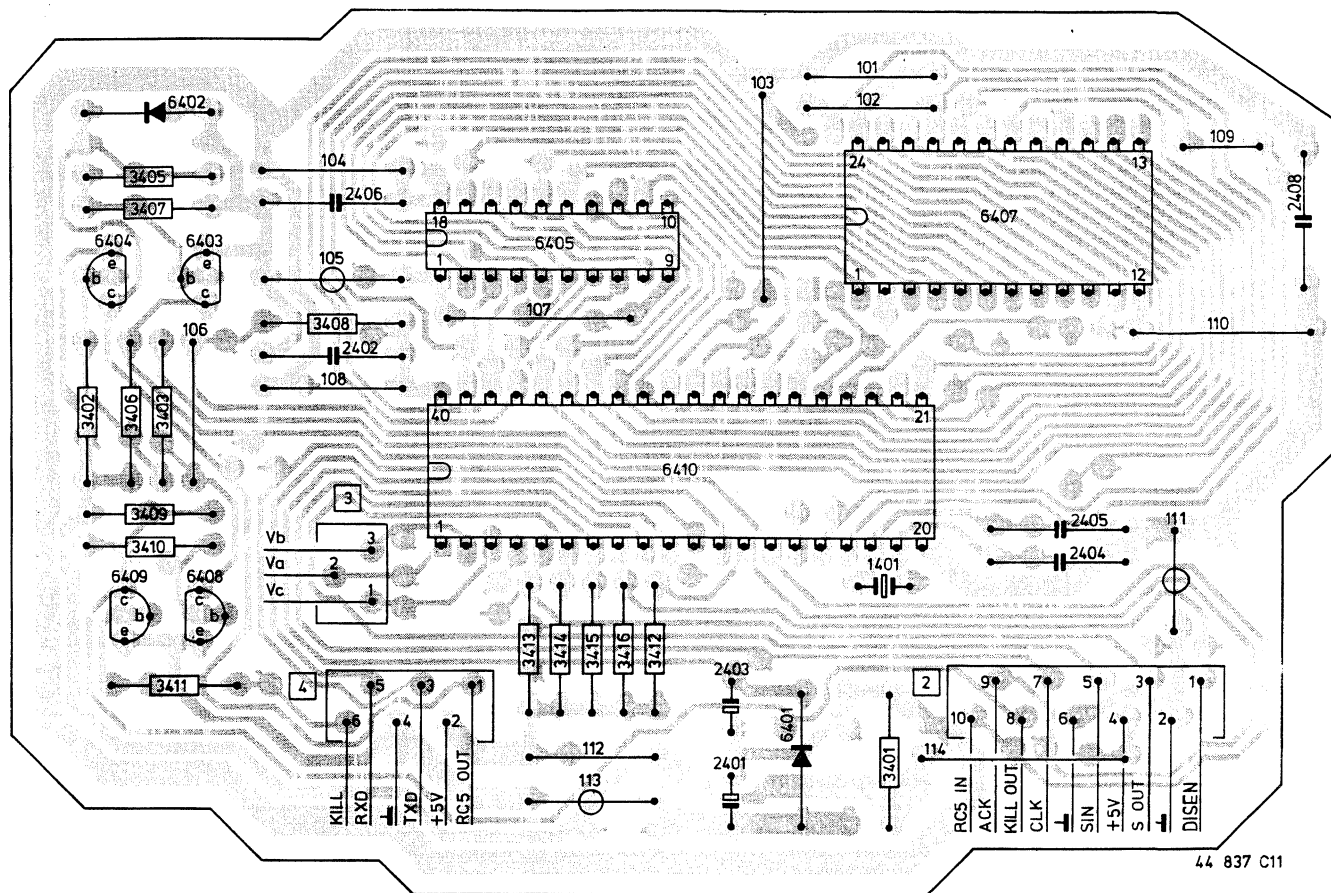






ELECTRICAL PARTSLIST SERVO & DECODER PANEL

Miscellaneous			— —		
BU1	4822 265 20291	MAINS INLET	2610	4822 124 20688	33μF 50% 16V
SK1	4822 276 11309	MAINS SWITCH	2611	4822 122 32863	22nF 80% 50V
SK2	4822 276 12523	TACT SWITCH (4,3mm)	2612	4822 124 40272	33μF 20% 16V
	4822 492 63076	CLAMPING SPRING	2613	4822 122 31772	47pF 5% 50V
	4822 256 30274	FUSE HOLDER	2614	4822 122 31772	47pF 5% 50V
HF-transformer			2615	4822 122 31772	47pF 5% 50V
1000	4822 148 80281	HF-TRANSFORMER FOR DIGITAL OUTPUT	2620	4822 122 32863	22nF 80% 50V
Crystal			2621	4822 122 32863	22nF 80% 50V
1503	4822 242 70831	4,00 MHz CERAMIC RESONATOR	2622	4822 124 22031	4,7μF 20% 63V
— —			2623	4822 122 31772	47pF 5% 50V
2500	4822 126 10454	3,3nF 20% 400V	2624	4822 122 31772	47pF 5% 50V
2501	4822 122 32863	22nF 80% 50V	2632	4822 124 40272	33μF 20% 16V
2503	4822 122 32863	22nF 80% 50V	2633	4822 122 32863	22nF 80% 50V
2504	4822 122 31727	470pF 5% 63V	2638	4822 122 10166	22nF 30% 16V
2506	4822 122 10166	22nF 30% 16V	2640	4822 122 32863	22nF 80% 50V
2507	4822 122 31644	2,2nF 10% 63V	2641	4822 122 32183	56nF 10% 50V
2508	5322 121 42604	47nF 5% 63V	2642	4822 122 32183	56nF 10% 50V
2509	4822 122 31765	100pF 5% 50V	2645	4822 122 32863	22nF 80% 50V
2510	4822 122 32442	10nF 10% 50V	2646	4822 122 33104	100nF 10% 63V
2511	4822 122 31746	1000pF 5% 50V	2690	4822 124 41334	470μF 20% 35V
2513	4822 121 43375	220nF 10% 63V	2691	4822 121 51252	470nF 5% 63V
2514	4822 121 51252	470nF 5% 63V	2692	5322 121 42386	100nF 5% 63V
2515	4822 122 31746	1000pF 5% 50V	2693	4822 122 32863	22nF 80% 50V
2520	4822 122 31965	220pF 5% 63V	2695	4822 124 41558	10μF 20% 25V
2521	4822 124 41527	47μF 20% 25V	2703	4822 124 41859	330μF 20% 35V
2522	4822 122 32863	22nF 80% 50V	2704	4822 124 41527	47μF 20% 25V
2524	4822 122 32863	22nF 80% 50V	2705	4822 122 32863	22nF 80% 50V
2525	4822 122 32863	22nF 80% 50V	2706	4822 122 32863	22nF 80% 50V
2526	4822 122 32863	22nF 80% 50V	2707	4822 124 41591	6800μF 20% 16V
2528	4822 124 41799	220μF 20% 63V	2708	4822 124 40272	33μF 20% 16V
2529	4822 124 22027	47μF 20% 25V	2709	4822 122 32863	22nF 80% 50V
2530	4822 121 51321	8,2nF 1% 63V	2710	4822 122 32863	22nF 80% 50V
2531	4822 121 51321	8,2nF 1% 63V	2711	4822 124 41853	1000μF 20% 16V
2532	4822 124 40272	33μF 20% 16V	2712	4822 124 40272	33μF 20% 16V
2534	5322 121 42661	330nF 5% 63V	2713	4822 124 41334	470μF 20% 35V
2535	5322 122 31848	33nF 10% 63V	2714	4822 124 41527	47μF 20% 25V
2536	5322 122 31848	33nF 10% 63V	2715	5322 121 42386	100nF 5% 63V
2537	4822 121 43375	220nF 10% 63V	2716	5322 124 21643	22μF 20% 40V
2538	4822 121 43375	220nF 10% 63V	□		
2540	4822 124 41583	0,68μF 20% 50V Bipolar	3501	5322 116 80445	4k7 1% 0,125W
2542	4822 122 32863	22nF 80% 50V	3502	5322 116 80429	100k 1% 0,125W
2545	4822 122 33104	100nF 10% 63V	3503	4822 111 30499	4Ω 5% 0,33W
2546	4822 122 32863	22nF 80% 50V	3504	4822 111 30499	4Ω 5% 0,33W
2550	5322 121 42604	47nF 5% 63V	3505	4822 111 90253	12k 2% 0,25W
2560	4822 121 51314	4,7nF 5% 50V	3506	4822 116 52389	100Ω 5% 0,5W
2561	4822 121 51252	470nF 5% 63V	3507	5322 116 80427	1k0 1% 0,125W
2562	5322 121 42661	330nF 5% 63V	3508	4822 111 90512	24k 2% 0,25W
2563	4822 122 33104	100nF 10% 63V	3509	4822 116 81208	5k6 1% 0,125W
2566	4822 122 32863	22nF 80% 50V	3510	4822 111 90249	10k 2% 0,25W
2570	4822 122 31644	2,2nF 10% 63V	3520	4822 101 10685	4k7 20% LIN 0,05W Trimpot
2572	5322 121 42661	330nF 5% 63V	3521	4822 116 52849	220Ω 1% 0,6W
2574	4822 122 31759	18nF 10% 63V	3522	4822 111 30515	18Ω 5% 0,33W
2600	4822 122 31772	47pF 5% 50V	3523	4822 111 30511	12Ω 5% 0,33W
2601	4822 122 31644	2,2nF 10% 63V	3524	5322 116 80426	100Ω 1% 0,125W
2602	4822 121 51252	470nF 5% 63V	3530	4822 116 52857	47k 1% 0,6W
2604	4822 124 41576	2,2μF 20% 50V	3531	4822 116 53083	15k 1% 0,6W
2607	4822 124 40272	33μF 20% 16V	3533	5322 111 90268	5k1 2% 0,25W
2608	4822 122 32863	22nF 80% 50V	3534	4822 111 90197	220k 2% 0,25W
2609	4822 122 32863	22nF 80% 50V	3535	4822 116 53081	12k 1% 0,6W
			3539	4822 111 90251	22k 2% 0,25W
			3540	4822 111 30499	4Ω 5% 0,33W
			3541	4822 111 90544	6k8 2% 0,25W
			3542	4822 111 90357	33Ω 2% 0,25W
			3543	4822 111 90544	6k8 2% 0,25W
			3545	4822 111 30483	1Ω 5% 0,33W



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ELECTRICAL PARTSLIST
SERVO & DECODER PANEL

Miscellaneous					
BU-1	4822 265 20291	MAINS INLET	2602	4822 121 51252	470nF 5% 63V
BU-2	4822 267 30957		2604	4822 124 41576	2,2µF 20% 50V
BU-4	4822 218 20752		2607	4822 124 40272	33µF 20% 16V
SK1	4822 276 11309	MAINS SWITCH	2608	4822 122 32863	22nF 80% 50V
SK2	4822 276 12523	TACT SWITCH (4,3mm)	2609	4822 122 32863	22nF 80% 50V
	4822 492 63076	CLAMPING SPRING	2610	4822 124 20688	33µF 50% 16V
	4822 256 30274	FUSE HOLDER	2611	4822 122 32863	22nF 80% 50V
HF-transformer			2612	4822 124 40272	33µF 20% 16V
1000	4822 148 80281	HF-TRANSFORMER FOR DIGITAL OUTPUT	2613	4822 122 31772	47pF 5% 50V
Crystal			2614	4822 122 31772	47pF 5% 50V
1503	4822 242 70831	4,00 MHz CERAMIC RESONATOR	2615	4822 122 31772	47pF 5% 50V
			2620	4822 122 32863	22nF 80% 50V
2500	4822 126 10454	3,3nF 20% 400V	2621	4822 122 32863	22nF 80% 50V
2501	4822 122 32863	22nF 80% 50V	2622	4822 124 22031	4,7µF 20% 63V
2503	4822 122 32863	22nF 80% 50V	2623	4822 122 31772	47pF 5% 50V
2504	4822 122 31727	470pF 5% 63V	2624	4822 122 31772	47pF 5% 50V
2506	4822 122 10166	22nF 30% 16V	2632	4822 124 40272	33µF 20% 16V
2507	4822 122 31644	2,2nF 10% 63V	2633	4822 122 32863	22nF 80% 50V
2508	5322 121 42604	47nF 5% 63V	2638	4822 122 10166	22nF 30% 16V
2509	4822 122 31765	100pF 5% 50V	2640	4822 122 32863	22nF 80% 50V
2510	4822 122 32442	10nF 10% 50V	2641	4822 122 32183	56nF 10% 50V
2511	4822 122 31746	1000pF 5% 50V	2642	4822 122 32183	56nF 10% 50V
2513	4822 121 43375	220nF 10% 63V	2645	4822 122 32863	22nF 80% 50V
2514	4822 121 51252	470nF 5% 63V	2646	4822 122 33104	100nF 10% 63V
2515	4822 122 31746	1000pF 5% 50V	2690	4822 124 41334	470µF 20% 35V
2520	4822 122 31965	220pF 5% 63V	2691	4822 121 51252	470nF 5% 63V
2521	4822 124 41527	47µF 20% 25V	2692	5322 121 42386	100nF 5% 63V
2522	4822 122 32863	22nF 80% 50V	2693	4822 122 32863	22nF 80% 50V
2524	4822 122 32863	22nF 80% 50V	2695	4822 124 41558	10µF 20% 25V
2525	4822 122 32863	22nF 80% 50V	2703	4822 124 41859	330µF 20% 35V
2526	4822 122 32863	22nF 80% 50V	2704	4822 124 41527	47µF 20% 25V
2528	4822 124 41799	220µF 20% 63V	2705	4822 122 32863	22nF 80% 50V
2529	4822 124 22027	47µF 20% 25V	2706	4822 122 32863	22nF 80% 50V
2530	4822 121 51321	8,2nF 1% 63V	2707	4822 124 41591	6800µF 20% 16V
2531	4822 121 51321	8,2nF 1% 63V	2708	4822 124 40272	33µF 20% 16V
2532	4822 124 40272	33µF 20% 16V	2709	4822 122 32863	22nF 80% 50V
2534	5322 121 42661	330nF 5% 63V	2710	4822 122 32863	22nF 80% 50V
2535	5322 122 31848	33nF 10% 63V	2711	4822 124 41853	1000µF 20% 16V
2536	5322 122 31848	33nF 10% 63V	2712	4822 124 40272	33µF 20% 16V
2537	4822 121 43375	220nF 10% 63V	2713	4822 124 41334	470µF 20% 35V
2538	4822 121 43375	220nF 10% 63V	2714	4822 124 41527	47µF 20% 25V
2540	4822 124 41583	0,68µF 20% 50V Bipolar	2715	5322 121 42386	100nF 5% 63V
2542	4822 122 32863	22nF 80% 50V	2716	5322 124 21643	22µF 20% 40V
2545	4822 122 33104	100nF 10% 63V			
2546	4822 122 32863	22nF 80% 50V	3501	5322 116 80445	4k7 1% 0,125W
2550	5322 121 42604	47nF 5% 63V	3502	5322 116 80429	100k 1% 0,125W
2560	4822 121 51314	4,7nF 5% 50V	3503	4822 111 30499	4Ω 5% 0,33W
2561	4822 121 51252	470nF 5% 63V	3504	4822 111 30499	4Ω 5% 0,33W
2562	5322 121 42661	330nF 5% 63V	3505	4822 111 90253	12k 2% 0,25W
2563	4822 122 33104	100nF 10% 63V	3506	4822 116 52389	100Ω 5% 0,5W
2566	4822 122 32863	22nF 80% 50V	3507	5322 051 10102	1k0 5% 0,125W
2570	4822 122 31644	2,2nF 10% 63V	3508	4822 051 10243	24k 5% 0,25W
2572	5322 121 42661	330nF 5% 63V	3509	4822 051 10562	5k6 5% 0,125W
2574	4822 122 31759	18nF 10% 63V	3510	4822 051 10103	10k 5% 0,25W
2600	4822 122 31772	47pF 5% 50V	3520	4822 101 10685	4k7 20% LIN 0,05W Trimpot
2601	4822 122 31644	2,2nF 10% 63V	3521	4822 116 52849	220Ω 1% 0,6W
			3522	4822 052 10189	18Ω 5% 0,33W
			3523	4822 052 10129	12Ω 5% 0,33W
			3524	4822 051 10101	100Ω 5% 0,125W
			3530	4822 050 24703	47k 1% 0,6W
			3531	4822 050 21503	15k 1% 0,6W
			3533	4822 051 10512	5k1 2% 0,25W
			3534	4822 051 10224	220k 5% 0,25W
			3535	4822 050 53081	12k 1% 0,6W



3546	4822 111 30483	1Ω 5% 0,33W
3552	5322 111 90101	1k8 2% 0,25W
3555	4822 111 90238	18k 2% 0,25W
3557	4822 111 90197	220k 2% 0,25W
3560	4822 111 91494	11k 2% 0,25W
3561	4822 116 90417	150k 2% 0,25W
3562	4822 111 90568	120k 2% 0,25W
3563	4822 111 90573	56k 2% 0,25W
3564	4822 111 91495	160k 2% 0,25W
3565	5322 111 90105	27Ω 2% 0,25W
3566	4822 116 81206	22Ω 1% 0,4W
3567	4822 111 90575	82k 2% 0,25W
3568	4822 100 20522	22k 20%LIN 0,05W Trimpot
3569	4822 111 90368	680k 2% 0,125W
3574	5322 116 80441	33k 1% 0,125W
3575	5322 116 80445	4k7 1% 0,125W
3576	4822 116 52848	200k 1% 0,6W
3578	4822 111 90575	82k 2% 0,25W
3579	4822 116 90417	150k 2% 0,25W
3580	4822 116 52426	4k7 5% 0,5W
3581	4822 116 53105	3k3 1% 0,6W
3582	4822 111 90572	5k6 2% 0,25W
3584	4822 111 91492	91k 2% 0,125W
3585	4822 111 90214	100k 2% 0,25W
3586	4822 111 90368	680k 2% 0,125W
3588	4822 116 52472	47k 5% 0,5W
3589	5322 116 80445	4k7 1% 0,125W
3591	5322 111 90096	1k2 2% 0,25W
3600	4822 111 90248	2k2 2% 0,25W
3602	4822 111 90251	22k 2% 0,25W
3603	4822 111 90371	75Ω 2% 0,25W
3604	4822 111 30499	4Ω7 5% 0,33W
3605	5322 111 90265	1k6 2% 0,25W
3607	4822 111 90571	3k9 2% 0,25W
3609	4822 111 30499	4Ω7 5% 0,33W
3610	4822 111 90373	9k1 2% 0,25W
3611	4822 111 90366	620Ω 2% 0,25W
3613	4822 111 90251	22k 2% 0,25W
3627	4822 111 30499	4Ω7 5% 0,33W
3628	4822 111 90251	22k 2% 0,25W
3629	4822 111 90197	220k 2% 0,25W
3638	4822 111 90251	22k 2% 0,25W
3639	4822 111 90251	22k 2% 0,25W
3640	4822 111 90251	22k 2% 0,25W
3642	4822 111 90251	22k 2% 0,25W
3645	5322 116 80445	4k7 1% 0,125W
3646	4822 111 90251	22k 2% 0,25W
3647	4822 111 90251	22k 2% 0,25W
3650	4822 111 30483	1Ω 5% 0,33W
3653	4822 116 81168	560Ω 1% 0,125W
3654	5322 111 90118	8k2 2% 0,25W
3655	4822 111 30499	4Ω7 5% 0,33W
3659	4822 116 52426	4k7 5% 0,5W
3660	5322 116 80426	100Ω 1% 0,125W
3661	5322 116 80426	100Ω 1% 0,125W
3662	4822 116 52389	100Ω 5% 0,5W
3701	5322 116 80445	4k7 1% 0,125W
3702	4822 111 90425	5M6 5% 0,25W
3703	5322 111 90108	39k 2% 0,25W
3705	4822 116 90541	56k 5% 0,125W
3710	5322 111 90099	150k 2% 0,25W
3720	5322 116 80427	1k0 1% 0,125W
3721	5322 116 80446	47k 1% 0,125W



3724	4822 116 53081	12k 1% 0,6W
3725	4822 111 90253	12k 2% 0,25W
3728	4822 116 81208	5k6 1% 0,125W
3729	4822 116 53081	12k 1% 0,6W
3730	4822 111 90253	12k 2% 0,25W
3731	4822 116 81206	22Ω 1% 0,4W
3732	4822 116 52422	3k9 5% 0,5W
3747	4822 111 90249	10k 2% 0,25W
3748	4822 111 90571	3k9 2% 0,25W
3750	4822 116 52472	47k 5% 0,5W
3775	5322 116 80445	4k7 1% 0,125W
3801	4822 111 90163	jumper
3803	4822 111 90163	jumper
3805	4822 111 90163	jumper
3807	4822 111 90163	jumper
3808	4822 111 90163	jumper
3809	4822 111 90163	jumper
3810	4822 111 90163	jumper
3812	4822 111 90163	jumper
3813	4822 111 90163	jumper
3814	4822 111 90163	jumper
3815	4822 111 90163	jumper
3821	4822 111 90163	jumper
3822	4822 111 90163	jumper
3823	4822 111 90163	jumper
3824	4822 111 90163	jumper
3825	4822 111 90163	jumper
3826	4822 111 90163	jumper
3827	4822 111 90163	jumper
3828	4822 111 90163	jumper
3829	4822 111 90163	jumper
3830	4822 111 90163	jumper
3831	4822 111 90163	jumper
3832	4822 111 90163	jumper
3833	4822 111 90163	jumper
3834	4822 111 90163	jumper
3835	4822 111 90163	jumper
3836	4822 111 90163	jumper
3838	4822 111 90163	jumper
3839	4822 111 90163	jumper
3840	4822 111 90163	jumper
3842	4822 111 90163	jumper
3843	4822 111 90163	jumper
3844	4822 111 90163	jumper
3845	4822 111 90163	jumper
3847	4822 111 90163	jumper
3848	4822 111 90163	jumper
3851	4822 111 90163	jumper
3852	4822 111 90163	jumper
3856	4822 111 90163	jumper
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3860	4822 111 90163	jumper
3861	4822 111 90163	jumper
3864	4822 111 90163	jumper
3865	4822 111 90163	jumper
3866	4822 111 90163	jumper
3872	4822 111 90163	jumper
3873	4822 111 90163	jumper
3874	4822 111 90163	jumper
3889	4822 111 90163	jumper
3892	4822 111 90163	jumper
3895	4822 111 90163	jumper
3897	4822 111 90163	jumper

FTS PANEL



6500	4822 209 72587	TCA0372DP2
6501	4822 209 73234	TDA8808T/C3
6502	4822 130 44121	BC338
6503	4822 209 73235	TDA8809T/C2
6504	4822 209 72587	TCA0372DP2
6505	4822 130 34173	BZX55-C5V6
6506	4822 130 34173	BZX55-C5V6
6511	4822 130 31456	BZV85-C5V1
6512	4822 209 83274	NJM4560D
6516	5322 130 42012	BC858A
6517	5322 130 42012	BC858A
6519	5322 130 30684	1N4002
6520	4822 130 42131	BF550
6523	4822 209 70422	MN4264-15
6530	4822 209 61832	MC68HC05C8P/7561
6531	4822 130 42675	BC818
6540	4822 209 72545	SAA7220P/B
6547	5322 130 30684	1N4002
6548	5322 130 30684	1N4002
6549	4822 209 61759	SAA7310GP/S5
6550	5322 130 30684	1N4002
6551	5322 130 30684	1N4002
6552	4822 130 30621	1N4148 (NSC)
6553	4822 130 30621	1N4148 (NSC)
6554	4822 130 42513	BC858C
6555	4822 130 31981	BZX55-C3V9
6556	4822 130 61207	BC848
6557	4822 130 30621	1N4148 (NSC)
6558	4822 130 44121	BC338
6559	4822 130 61207	BC848
6561	4822 209 60803	SN74LS08D (MOTA)
6562	4822 130 61207	BC848
6568	4822 130 61207	BC848
6569	4822 218 20752	TOTX172
6573	4822 130 34167	BZX55-C6V2
6577	5322 130 41899	MC7915CT
6580	5322 130 30684	1N4002
6581	5322 130 30684	1N4002
6582	5322 130 30684	1N4002
6583	5322 130 30684	1N4002
6584	5322 130 30684	1N4002
6585	5322 130 30684	1N4002
6586	5322 130 30684	1N4002
6587	5322 130 30684	1N4002
6590	4822 209 80808	MC78M15CT
6591	4822 209 71579	TY40408 (MOTA)
6592	5322 209 11222	MC7905CT
6593	5322 130 41899	MC7915CT
6602	5322 130 30684	1N4002
6603	5322 130 30684	1N4002

Crystal

1401	4822 242 71222	12 MHz CRYSTAL
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2401	4822 124 40272	33μF 20% 16V
2402	4822 122 10166	22nF 30% 16V
2403	4822 124 41578	6,8μF 20% 50V
2404	4822 122 10179	33pF 5% 50V
2405	4822 122 10179	33pF 5% 50V
2406	4822 122 10166	22nF 30% 16V
2408	4822 122 10166	22nF 30% 16V



3401	4822 111 30483	1Ω 5% 0,33W
3402	4822 116 52452	10k 5% 0,5W
3403	4822 116 52452	10k 5% 0,5W
3405	4822 116 52426	4k7 5% 0,5W
3406	4822 116 52461	18k 5% 0,5W
3407	4822 116 52461	18k 5% 0,5W
3408	4822 116 52463	22k 5% 0,5W
3409	4822 116 52463	22k 5% 0,5W
3410	4822 116 52527	470k 5% 0,5W
3411	4822 116 52527	470k 5% 0,5W
3412	4822 116 52463	22k 5% 0,5W
3413	4822 116 52463	22k 5% 0,5W
3414	4822 116 52463	22k 5% 0,5W
3415	4822 116 52463	22k 5% 0,5W
3416	4822 116 52463	22k 5% 0,5W



6401	4822 130 30621	1N4148 (NSC)
6402	4822 130 34233	BZX55-C5V1
6403	4822 130 40938	BC548
6404	4822 130 40941	BC558
6405	5322 209 11118	PC74HCT373P
6407	4822 209 72102	X2816BP
6408	4822 130 40938	BC548
6409	4822 130 40938	BC548
6410	4822 209 61803	PCB83C654P/AC004

							
3539	4822 051 10332	22k 5% 0,25W		3705	4822 051 10563	56k 5% 0,125W	
3540	4822 052 10478	4Ω7 5% 0,33W		3710	4822 051 10154	150k 5% 0,25W	
3541	4822 051 10682	6k8 2% 0,25W		3720	4822 051 10102	1k0 5% 0,125W	
3542	4822 051 10339	33Ω 2% 0,25W		3721	4822 051 10473	47k 5% 0,125W	
3543	4822 051 10682	6k8 2% 0,25W		3724	4822 051 21203	12k 1% 0,6W	
3545	4822 052 10108	1Ω 5% 0,33W		3725	4822 051 10123	12k 2% 0,25W	
3546	4822 052 10108	1Ω 5% 0,33W		3728	4822 051 10562	5k6 5% 0,125W	
3552	4822 051 10182	1k8 5% 0,25W		3729	4822 050 21203	12k 1% 0,6W	
3555	4822 051 20183	18k 2% 0,25W		3730	4822 051 10123	12k 2% 0,25W	
3557	4822 051 10224	220k 5% 0,25W		3731	4822 051 10229	22Ω 5% 0,4W	
3560	4822 111 91494	11k 2% 0,25W		3732	4822 050 23902	3k9 5% 0,5W	
3561	4822 051 10154	150k 2% 0,25W		3747	4822 051 10103	10k 5% 0,25W	
3562	4822 051 10124	120k 2% 0,25W		3748	4822 051 10392	3k9 5% 0,25W	
3563	4822 051 10563	56k 2% 0,25W		3750	4822 050 24703	47k 5% 0,5W	
3564	4822 111 91495	160k 2% 0,25W		3775	4822 051 10472	4k7 5% 0,125W	
3565	4822 051 10279	27Ω 5% 0,25W		3801	4822 111 90163	jumper	
3566	4822 051 10229	22Ω 5% 0,4W		3803	4822 111 90163	jumper	
3567	4822 051 10823	82k 2% 0,25W		3804	4822 111 90163	jumper	
3568	4822 100 20522	22k 20%LIN 0,05W Trimpot		3805	4822 111 90163	jumper	
3569	4822 111 90368	680k 2% 0,125W		3807	4822 111 90163	jumper	
3574	4822 051 10333	33k 5% 0,125W		3808	4822 111 90163	jumper	
3575	5322 116 80445	4k7 1% 0,125W		3809	4822 111 90163	jumper	
3576	4822 050 22004	200k 1% 0,6W		3810	4822 111 90163	jumper	
3578	4822 051 10823	82k 5% 0,25W		3812	4822 111 90163	jumper	
3579	4822 116 90417	150k 2% 0,25W		3813	4822 111 90163	jumper	
3580	4822 116 52426	4k7 5% 0,5W		3814	4822 111 90163	jumper	
3581	4822 050 23302	3k3 1% 0,6W		3815	4822 111 90163	jumper	
3582	4822 051 10562	5k6 2% 0,25W		3821	4822 111 90163	jumper	
3584	4822 051 10913	91k 2% 0,125W		3822	4822 111 90163	jumper	
3585	4822 051 10104	100k 2% 0,25W		3823	4822 111 90163	jumper	
3586	4822 111 90368	680k 2% 0,125W		3824	4822 111 90163	jumper	
3588	4822 050 24703	47k 5% 0,5W		3825	4822 111 90163	jumper	
3589	4822 051 10472	4k7 5% 0,125W		3826	4822 111 90163	jumper	
3591	4822 051 10122	1k2 5% 0,25W		3827	4822 111 90163	jumper	
3600	4822 051 20222	2k2 5% 0,25W		3828	4822 111 90163	jumper	
3602	4822 051 10223	22k 5% 0,25W		3829	4822 111 90163	jumper	
3603	4822 051 10759	75Ω 5% 0,25W		3830	4822 111 90163	jumper	
3604	4822 052 10478	4Ω7 5% 0,33W		3831	4822 111 90163	jumper	
3605	4822 051 10162	1k6 5% 0,25W		3832	4822 111 90163	jumper	
3607	4822 051 10392	3k9 5% 0,25W		3833	4822 111 90163	jumper	
3609	4822 052 10478	4Ω7 5% 0,33W		3834	4822 111 90163	jumper	
3610	4822 051 10912	9k1 5% 0,25W		3835	4822 111 90163	jumper	
3611	4822 051 10621	620Ω 5% 0,25W		3836	4822 111 90163	jumper	
3613	4822 051 10223	22k 5% 0,25W		3837	4822 111 90163	jumper	
3627	4822 052 10478	4Ω7 5% 0,33W		3838	4822 111 90163	jumper	
3628	4822 051 10223	22k 5% 0,25W		3839	4822 111 90163	jumper	
3629	4822 051 10224	220k 5% 0,25W		3840	4822 111 90163	jumper	
3631	4822 050 21003	10k 5% 0,25W		3842	4822 111 90163	jumper	
3638	4822 051 10223	22k 5% 0,25W		3843	4822 111 90163	jumper	
3639	4822 051 10223	22k 5% 0,25W		3844	4822 111 90163	jumper	
3640	4822 051 10223	22k 5% 0,25W		3845	4822 111 90163	jumper	
3642	4822 051 10223	22k 5% 0,25W		3847	4822 111 90163	jumper	
3645	4822 051 10472	4k7 5% 0,125W		3848	4822 111 90163	jumper	
3646	4822 051 10223	22k 5% 0,25W		3851	4822 111 90163	jumper	
3647	4822 051 10223	22k 5% 0,25W		3852	4822 111 90163	jumper	
3650	4822 052 10108	1Ω 5% 0,33W		3856	4822 111 90163	jumper	
3653	4822 051 10561	560Ω 5% 0,125W		3859	4822 111 90163	jumper	
3654	4822 051 10822	8k2 5% 0,25W		3860	4822 111 90163	jumper	
3655	4822 052 10478	4Ω7 5% 0,33W		3861	4822 111 90163	jumper	
3659	4822 116 52426	4k7 5% 0,5W		3864	4822 111 90163	jumper	
3660	4822 051 10101	100Ω 5% 0,125W		3865	4822 111 90163	jumper	
3661	4822 051 10101	100Ω 5% 0,125W		3866	4822 111 90163	jumper	
3662	4822 050 21001	100Ω 5% 0,5W		3872	4822 111 90163	jumper	
3701	4822 051 10472	4k7 5% 0,125W		3873	4822 111 90163	jumper	
3702	4822 051 10565	5M6 5% 0,25W		3874	4822 111 90163	jumper	
3703	4822 051 10393	39k 5% 0,25W		3889	4822 111 90163	jumper	

CONTROL & DISPLAY PANEL

		
3892	4822 111 90163	jumper
3893	4822 111 90163	jumper
3895	4822 111 90163	jumper
3897	4822 111 90163	jumper
		
5500	4822 157 60309	ANTI-INTERFERENCE COIL
		
6500	4822 209 72587	TCA0372DP2
6501	4822 209 73234	TDA8808T/C3
6502	4822 130 44121	BC338
6503	4822 209 73235	TDA8809T/C2
6504	4822 209 72587	TCA0372DP2
6505	4822 130 34173	BZX55-C5V6
6506	4822 130 34173	BZX55-C5V6
6511	4822 130 31456	BZV85-C5V1
6512	4822 209 83274	NJM4560D
6516	5322 130 42012	BC858A
6517	5322 130 42012	BC858A
6519	5322 130 30684	1N4002
6520	4822 130 42131	BF550
6523	4822 209 70422	MN4264-15
6530	4822 209 61832	MC68HC05C8P/7561
6531	4822 130 42675	BC818
6540	4822 209 72545	SAA7220P/B
6547	5322 130 30684	1N4002
6548	5322 130 30684	1N4002
6549	4822 209 61759	SAA7310GP/S5
6550	5322 130 30684	1N4002
6551	5322 130 30684	1N4002
6552	4822 130 30621	1N4148 (NSC)
6553	4822 130 30621	1N4148 (NSC)
6554	4822 130 42513	BC858C
6555	4822 130 31981	BZX55-C3V9
6556	4822 130 61207	BC848
6557	4822 130 30621	1N4148 (NSC)
6558	4822 130 44121	BC338
6559	4822 130 61207	BC848
6561	4822 209 60803	SN74LS08D (MOTA)
6562	4822 130 61207	BC848
6568	4822 130 61207	BC848
6569	4822 218 20752	TOTX172
6573	4822 130 34167	BZX55-C6V2
6577	5322 130 41899	MC7915CT
6580	5322 130 30684	1N4002
6581	5322 130 30684	1N4002
6582	5322 130 30684	1N4002
6583	5322 130 30684	1N4002
6584	5322 130 30684	1N4002
6585	5322 130 30684	1N4002
6586	5322 130 30684	1N4002
6587	5322 130 30684	1N4002
6590	4822 209 80808	MC78M15CT
6591	4822 209 71579	TY40408 (MOTA)
6592	5322 209 11222	MC7905CT
6593	5322 130 41899	MC7915CT
6602	5322 130 30684	1N4002
6603	5322 130 30684	1N4002

Switch		
SK11	4822 276 20463	DIGITAL OUT ON/OFF
SK..	4822 276 12276	CONTROL SWITCHES
Miscellaneous		
	4822 255 40817	FTD HOLDER
	4822 255 40991	LED HOLDER
	4822 532 52098	FTD SPACER
1100	4822 214 51772	IR RECEIVER GP1U521X
1101	4822 242 71508	CERAMIC FILTER 6 MHz
1102	4822 130 90667	DISPLAY 9-BY-02GK
		
2100	4822 124 22027	47μF 20% 25V
2101	4822 122 32444	33pF 5% 50V
2102	4822 122 32444	33pF 5% 50V
2104	4822 122 32863	22nF 80% 50V
2105	4822 124 22027	47μF 20% 25V
2106	4822 122 10166	22nF 30% 16V
		
3100	5322 111 91484	10k 2% RES.Network 0,2W
3101	5322 111 91484	10k 2% RES.Network 0,2W
3130	4822 052 10478	4Ω 5% 0,33W
3131	5322 116 80446	47k 1% 0,125W
3132	4822 051 10829	82Ω 2% 0,25W
3133	5322 116 80427	1kΩ 1% 0,125W
3134	4822 051 10621	620Ω 2% 0,25W
3135	4822 051 10103	10k 2% 0,25W
3151	4822 052 10478	4Ω 5% 0,33W
3160	4822 051 10829	82Ω 2% 0,25W
3161	5322 116 80427	1kΩ 1% 0,125W
3162	4822 051 10621	620Ω 2% 0,25W
3801	4822 111 90163	jumper
3802	4822 111 90163	jumper
3803	4822 111 90163	jumper
3804	4822 111 90163	jumper
3805	4822 111 90163	jumper
3806	4822 111 90163	jumper
		
6501	4822 209 61191	TMP47C670N-1364
6502	4822 209 60886	UDN-2580A
6503	4822 209 60886	UDN-2580A
6518	4822 130 30613	BAW62
6519	4822 130 30613	BAW62
6520	4822 130 30613	BAW62
6521	4822 130 30613	BAW62
6522	4822 130 30613	BAW62
6523	4822 130 30613	BAW62
6524	4822 130 30613	BAW62
6525	4822 130 30613	BAW62
6526	4822 130 30613	BAW62
6528	4822 130 80849	TLHR4499
6529	4822 130 80849	TLHR4499
6530	4822 130 61207	BC848
6531	4822 130 61207	BC848

CONTROL & DISPLAY PANEL

Switch					
SK11	4822 276 20463	DIGITAL OUT ON/OFF	3135	4822 111 90249	10k 2% 0,25W
SK..	4822 276 12276	CONTROL SWITCHES	3151	4822 111 30499	4Ω7 5% 0,33W
Miscellaneous			3160	4822 111 90124	82Ω 2% 0,25W
	4822 255 40817	FTD HOLDER	3161	5322 116 80427	1k0 1% 0,125W
	4822 255 40991	LED HOLDER	3162	4822 111 90366	620Ω 2% 0,25W
	4822 532 52098	FTD SPACER	3801	4822 111 90163	jumper
1100	4822 214 51772	IR RECEIVER GP1U521X	3802	4822 111 90163	jumper
1101	4822 242 71508	CERAMIC FILTER 6 MHz	3803	4822 111 90163	jumper
1102	4822 130 90667	DISPLAY 9-BY-02GK	3804	4822 111 90163	jumper
			3805	4822 111 90163	jumper
			3806	4822 111 90163	jumper
					
2100	4822 124 22027	47μF 20% 25V	6501	4822 209 61191	TMP47C670N-1364
2101	4822 122 32444	33pF 5% 50V	6502	4822 209 60886	UDN-2580A
2102	4822 122 32444	33pF 5% 50V	6503	4822 209 60886	UDN-2580A
2104	4822 122 32863	22nF 80% 50V	6518	4822 130 30613	BAW62
2105	4822 124 22027	47μF 20% 25V	6519	4822 130 30613	BAW62
2106	4822 122 10166	22nF 30% 16V	6520	4822 130 30613	BAW62
			6521	4822 130 30613	BAW62
3100	5322 111 91484	10k 2% RES.Network 0,2W	6522	4822 130 30613	BAW62
3101	5322 111 91484	10k 2% RES.Network 0,2W	6523	4822 130 30613	BAW62
3130	4822 111 30499	4Ω7 5% 0,33W	6524	4822 130 30613	BAW62
3131	5322 116 80446	47k 1% 0,125W	6525	4822 130 30613	BAW62
3132	4822 111 90124	82Ω 2% 0,25W	6526	4822 130 30613	BAW62
3133	5322 116 80427	1k0 1% 0,125W	6528	4822 130 80849	TLHR4499
3134	4822 111 90366	620Ω 2% 0,25W	6529	4822 130 80849	TLHR4499
			6530	4822 130 61207	BC848
			6531	4822 130 61207	BC848

VARIABLE HEADPHONE OUTPUT PANEL

Miscellaneous		
BU3	4822 267 31065	HEADPHONE SOCKET
1201	4822 100 30061	10k 20% 0,05W
		
2201	5322 124 21762	100μF 20% 10V
2202	5322 124 21762	100μF 20% 10V
2203	5322 124 21711	100μF 20% 25V
2204	5322 124 21711	100μF 20% 25V
		
3201	4822 116 52389	100Ω 5% 0,5W
3202	4822 116 52389	100Ω 5% 0,5W
3203	4822 116 52452	10k 5% 0,5W
3204	4822 116 52452	10k 5% 0,5W
3205	4822 111 30508	10Ω 5% 0,33W
3206	4822 111 30508	10Ω 5% 0,33W
3207	4822 116 52465	27k 5% 0,5W
3208	4822 116 52465	27k 5% 0,5W
3209	4822 116 52395	1k2 5% 0,5W
3210	4822 116 52395	1k2 5% 0,5W
3211	4822 116 52846	150Ω 1% 0,6W
3212	4822 116 52846	150Ω 1% 0,6W
		
6201	4822 209 82362	NJM4556D
6203	4822 130 44121	BC338
6204	4822 130 44121	BC338

MISCELLANEOUS

1501	4822 253 30009	FUSE 160 mA
1501	4822 253 30217	FUSE 300 mA
5001	4822 146 21441	MAINSTRANSFORMER
	4822 146 21497	
	4822 323 20182	OPTICAL FIBER

AUDIO PANEL

Miscellaneous			- -		
BU4	4822 267 30878	CINCH SOCKET 2P	2365	4822 124 41528	100μF 20% 25V
Crystal			2367	4822 124 22339	100μF 20% 16V Bipolar
1302	4822 242 71349	11.2896 MHz CRYSTAL	2368	4822 124 22339	100μF 20% 16V Bipolar
- -			2370	4822 122 33104	100nF 10% 63V
2300	4822 122 33104	100nF 10% 63V	2371	4822 122 33104	100nF 10% 63V
2303	4822 124 40272	33μF 20% 16V	2372	4822 122 33104	100nF 10% 63V
2304	4822 122 33104	100nF 10% 63V	2373	4822 122 33104	100nF 10% 63V
2306	4822 122 33104	100nF 10% 63V	2380	4822 122 31765	100pF 5% 50V
2307	4822 124 40272	33μF 20% 16V	2381	4822 122 32444	33pF 5% 50V
2308	4822 122 33104	100nF 10% 63V	2383	4822 122 32444	33pF 5% 50V
2309	4822 124 40272	33μF 20% 16V	□		
2310	4822 122 33104	100nF 10% 63V	3301	5322 116 80446	47k 1% 0,125W
2311	4822 124 40272	33μF 20% 16V	3302	5322 116 80446	47k 1% 0,125W
2312	4822 122 33104	100nF 10% 63V	3303	5322 116 80446	47k 1% 0,125W
2313	4822 124 40272	33μF 20% 16V	3304	5322 116 80446	47k 1% 0,125W
2314	4822 124 40272	33μF 20% 16V	3305	5322 116 80446	47k 1% 0,125W
2315	4822 122 33104	100nF 10% 63V	3306	5322 116 80446	47k 1% 0,125W
2317	4822 122 33104	100nF 10% 63V	3312	5322 116 53286	22k 1% 0,6W
2318	4822 124 40272	33μF 20% 16V	3313	4822 116 53534	24k 1% 0,6W
2319	4822 124 40272	33μF 20% 16V	3314	4822 116 53027	5k6 1% 0,6W
2320	4822 122 33104	100nF 10% 63V	3316	4822 116 53027	5k6 1% 0,6W
2321	4822 124 40272	33μF 20% 16V	3317	4822 116 53028	7k5 1% 0,6W
2322	4822 122 33104	100nF 10% 63V	3318	4822 116 53534	24k 1% 0,6W
2323	4822 124 40272	33μF 20% 16V	3319	5322 116 53286	22k 1% 0,6W
2324	4822 122 33104	100nF 10% 63V	3320	4822 116 53027	5k6 1% 0,6W
2325	4822 122 33104	100nF 10% 63V	3322	4822 116 53028	7k5 1% 0,6W
2326	4822 122 33104	100nF 10% 63V	3323	4822 116 53027	5k6 1% 0,6W
2327	4822 124 40272	33μF 20% 16V	3324	5322 116 53286	22k 1% 0,6W
2328	4822 122 33104	100nF 10% 63V	3325	4822 116 53534	24k 1% 0,6W
2329	4822 124 40272	33μF 20% 16V	3327	4822 116 53027	5k6 1% 0,6W
2330	4822 122 33104	100nF 10% 63V	3328	4822 116 53027	5k6 1% 0,6W
2331	4822 122 33104	100nF 10% 63V	3329	4822 116 53028	7k5 1% 0,6W
2332	4822 124 40272	33μF 20% 16V	3330	4822 116 53534	24k 1% 0,6W
2333	4822 122 33104	100nF 10% 63V	3331	5322 116 53286	22k 1% 0,6W
2334	4822 124 40272	33μF 20% 16V	3332	4822 116 53027	5k6 1% 0,6W
2335	5322 121 51214	680pF 1% 400V	3334	4822 116 53028	7k5 1% 0,6W
2336	4822 121 50591	1nF 1% 630V	3335	4822 116 53027	5k6 1% 0,6W
2337	5322 122 31844	330pF 10% 63V	3340	4822 111 30499	4Ω7 5% 0,33W
2338	4822 121 50591	1nF 1% 630V	3341	4822 111 30499	4Ω7 5% 0,33W
2339	4822 121 51288	100pF 5% 630V	3342	4822 111 30499	4Ω7 5% 0,33W
2340	5322 122 31844	330pF 10% 63V	3343	4822 111 30499	4Ω7 5% 0,33W
2341	4822 121 50591	1nF 1% 630V	3344	4822 111 30499	4Ω7 5% 0,33W
2342	5322 121 51214	680pF 1% 400V	3345	4822 111 30499	4Ω7 5% 0,33W
2343	4822 121 51288	100pF 5% 630V	3346	4822 111 30499	4Ω7 5% 0,33W
2344	4822 121 50591	1nF 1% 630V	3347	4822 111 30499	4Ω7 5% 0,33W
2345	5322 121 51214	680pF 1% 400V	3350	4822 111 30522	33Ω 5% 0,33W
2346	4822 121 50591	1nF 1% 630V	3351	4822 111 30522	33Ω 5% 0,33W
2347	5322 122 31844	330pF 10% 63V	3352	4822 111 30522	33Ω 5% 0,33W
2348	4822 121 50591	1nF 1% 630V	3353	4822 111 30522	33Ω 5% 0,33W
2349	4822 121 51288	100pF 5% 630V	3355	4822 116 53022	10k 1% 0,6W
2350	5322 122 31844	330pF 10% 63V	3356	4822 116 53022	10k 1% 0,6W
2351	4822 121 50591	1nF 1% 630V	3357	4822 116 53022	10k 1% 0,6W
2352	5322 121 51214	680pF 1% 400V	3358	4822 116 53022	10k 1% 0,6W
2353	4822 121 51288	100pF 5% 630V	3359	4822 116 53022	10k 1% 0,6W
2354	4822 121 50591	1nF 1% 630V	3360	4822 116 53022	10k 1% 0,6W
2360	4822 124 41528	100μF 20% 25V	3361	4822 116 53022	10k 1% 0,6W
2361	4822 124 41528	100μF 20% 25V	3362	4822 116 53022	10k 1% 0,6W
2364	4822 124 41528	100μF 20% 25V	3363	4822 111 90249	10k 2% 0,25W
			3364	5322 116 80426	100Ω 1% 0,125W
			3365	5322 116 80426	100Ω 1% 0,125W

AUDIO PANEL

Miscellaneous					
BU-3	4822 267 30878	CINCH SOCKET 2P	2372	4822 122 33104	100nF 10% 63V
Crystal			2373	4822 122 33104	100nF 10% 63V
			2380	4822 122 31765	100pF 5% 50V
			2381	4822 122 32444	33pF 5% 50V
			2383	4822 122 32444	33pF 5% 50V
1302	4822 242 71349	11.2896 MHz CRYSTAL			
					
2300	4822 122 33104	100nF 10% 63V	3301	5322 116 80446	47k 1% 0,125W
2303	4822 124 40272	33μF 20% 16V	3302	5322 116 80446	47k 1% 0,125W
2304	4822 122 33104	100nF 10% 63V	3303	5322 116 80446	47k 1% 0,125W
2306	4822 122 33104	100nF 10% 63V	3304	5322 116 80446	47k 1% 0,125W
2307	4822 124 40272	33μF 20% 16V	3305	5322 116 80446	47k 1% 0,125W
2308	4822 122 33104	100nF 10% 63V	3306	5322 116 80446	47k 1% 0,125W
2309	4822 124 40272	33μF 20% 16V	3312	4822 050 21003	10k 1% 0,6W
2310	4822 122 33104	100nF 10% 63V	3313	4822 050 22203	22k 1% 0,6W
2311	4822 124 40272	33μF 20% 16V	3314	4822 050 25602	5k6 1% 0,6W
2312	4822 122 33104	100nF 10% 63V	3316	4822 050 25602	5k6 1% 0,6W
2313	4822 124 40272	33μF 20% 16V	3317	4822 050 27502	7k5 1% 0,6W
2314	4822 124 40272	33μF 20% 16V	3318	4822 050 22203	22k 1% 0,6W
2315	4822 122 33104	100nF 10% 63V	3319	4822 050 21003	10k 1% 0,6W
2317	4822 122 33104	100nF 10% 63V	3320	4822 050 25602	5k6 1% 0,6W
2318	4822 124 40272	33μF 20% 16V	3322	4822 050 27502	7k5 1% 0,6W
2319	4822 124 40272	33μF 20% 16V	3323	4822 050 25602	5k6 1% 0,6W
2320	4822 122 33104	100nF 10% 63V	3324	4822 050 21003	10k 1% 0,6W
2321	4822 124 40272	33μF 20% 16V	3325	4822 050 22203	22k 1% 0,6W
2322	4822 122 33104	100nF 10% 63V	3327	4822 050 25602	5k6 1% 0,6W
2323	4822 124 40272	33μF 20% 16V	3328	4822 050 25602	5k6 1% 0,6W
2324	4822 122 33104	100nF 10% 63V	3329	4822 050 27502	7k5 1% 0,6W
2325	4822 122 33104	100nF 10% 63V	3330	4822 050 22203	22k 1% 0,6W
2326	4822 122 33104	100nF 10% 63V	3331	4822 050 21003	10k 1% 0,6W
2327	4822 124 40272	33μF 20% 16V	3332	4822 050 25602	5k6 1% 0,6W
2328	4822 122 33104	100nF 10% 63V	3334	4822 050 27502	7k5 1% 0,6W
2329	4822 124 40272	33μF 20% 16V	3335	4822 050 25602	5k6 1% 0,6W
2330	4822 122 33104	100nF 10% 63V	3340	4822 052 10478	4Ω7 5% 0,33W
2331	4822 122 33104	100nF 10% 63V	3341	4822 052 10478	4Ω7 5% 0,33W
2332	4822 124 40272	33μF 20% 16V	3342	4822 052 10478	4Ω7 5% 0,33W
2333	4822 122 33104	100nF 10% 63V	3343	4822 052 10478	4Ω7 5% 0,33W
2334	4822 124 40272	33μF 20% 16V	3344	4822 052 10478	4Ω7 5% 0,33W
2335	5322 121 51214	680pF 1% 400V	3345	4822 052 10478	4Ω7 5% 0,33W
2336	4822 121 50591	1nF 1% 630V	3346	4822 052 10478	4Ω7 5% 0,33W
2337	5322 122 31844	330pF 10% 63V	3347	4822 052 10478	4Ω7 5% 0,33W
2338	4822 121 50591	1nF 1% 630V	3350	4822 052 10339	33Ω 5% 0,33W
2339	4822 121 51288	100pF 5% 630V	3351	4822 052 10339	33Ω 5% 0,33W
2340	5322 122 31844	330pF 10% 63V	3352	4822 052 10339	33Ω 5% 0,33W
2341	4822 121 50591	1nF 1% 630V	3353	4822 052 10339	33Ω 5% 0,33W
2342	5322 121 51214	680pF 1% 400V	3355	4822 050 21203	12k 1% 0,6W
2343	4822 121 51288	100pF 5% 630V	3356	4822 050 21003	10k 1% 0,6W
2344	4822 121 50591	1nF 1% 630V	3357	4822 050 21003	10k 1% 0,6W
2345	5322 121 51214	680pF 1% 400V	3358	4822 050 21203	12k 1% 0,6W
2346	4822 121 50591	1nF 1% 630V	3359	4822 050 21203	12k 1% 0,6W
2347	5322 122 31844	330pF 10% 63V	3360	4822 050 21003	10k 1% 0,6W
2348	4822 121 50591	1nF 1% 630V	3361	4822 050 21003	10k 1% 0,6W
2349	4822 121 51288	100pF 5% 630V	3362	4822 050 21203	10k 1% 0,6W
2350	5322 122 31844	330pF 10% 63V	3363	4822 051 10103	10k 2% 0,25W
2351	4822 121 50591	1nF 1% 630V	3364	5322 116 80426	100Ω 1% 0,125W
2352	5322 121 51214	680pF 1% 400V	3365	5322 116 80426	100Ω 1% 0,125W
2353	4822 121 51288	100pF 5% 630V	3366	4822 051 10122	1k2 2% 0,25W
2354	4822 121 50591	1nF 1% 630V	3367	4822 051 10122	1k2 2% 0,25W
2360	4822 124 41528	100μF 20% 25V	3368	5322 116 80426	100Ω 1% 0,125W
2361	4822 124 41528	100μF 20% 25V	3369	5322 116 80426	100Ω 1% 0,125W
2364	4822 124 41528	100μF 20% 25V	3370	4822 051 10122	1k2 2% 0,25W
2365	4822 124 41528	100μF 20% 25V	3371	4822 051 10122	1k2 2% 0,25W
2367	4822 124 22339	100μF 20% 16V Bipolar	3372	4822 051 10103	10k 2% 0,25W
2368	4822 124 22339	100μF 20% 16V Bipolar	3381	5322 116 80426	100Ω 1% 0,125W
2370	4822 122 33104	100nF 10% 63V	3390	4822 116 81165	1M 1% 0,125W
2371	4822 122 33104	100nF 10% 63V			

		
3391	4822 051 10821	802Ω 5% 0,25W
3801	4822 111 90163	jumper
3802	4822 111 90163	jumper
3803	4822 111 90163	jumper
3804	4822 111 90163	jumper
3805	4822 111 90163	jumper
3806	4822 111 90163	jumper
3807	4822 111 90163	jumper
3808	4822 111 90163	jumper
3809	4822 111 90163	jumper
3810	4822 111 90163	jumper
3811	4822 111 90163	jumper
3812	4822 111 90163	jumper
3813	4822 111 90163	jumper
3814	4822 111 90163	jumper
3815	4822 111 90163	jumper
3816	4822 111 90163	jumper
3818	4822 111 90163	jumper
3886	4822 111 90163	jumper
3887	4822 111 90163	jumper
3888	4822 111 90163	jumper
3890	4822 111 90163	jumper

		
5301	4822 157 53139	4.7μH
5302	4822 157 53139	4.7μH
5303	4822 157 53473	1000μH
5304	4822 157 53473	1000μH
5305	4822 157 53473	1000μH
5306	4822 157 53473	1000μH
5307	4822 157 60363	ANTI-INTERFERENCE COIL

		
6301	4822 209 61802	MC74HCU04D
6302	4822 209 61708	SAA7321GP
6303	4822 209 61708	SAA7321GP
6305	4822 130 42696	BC818-25
6306	4822 130 42696	BC818-25
6307	4822 130 42696	BC818-25
6308	4822 130 42696	BC818-25
6309	4822 209 70226	NJM5534D
6310	4822 209 70226	NJM5534D

FTS PANEL

Crystal		
1401	4822 242 71222	12 MHz CRYSTAL

		
2401	4822 124 40272	33μF 20% 16V
2402	4822 122 10166	22nF 30% 16V
2403	4822 124 41578	6,8μF 20% 50V
2404	4822 122 10179	33pF 5% 50V
2405	4822 122 10179	33pF 5% 50V
2406	4822 122 10166	22nF 30% 16V
2408	4822 122 10166	22nF 30% 16V

		
3401	4822 052 10108	1Ω 5% 0,33W
3402	4822 050 21003	10k 5% 0,5W
3403	4822 050 21003	10k 5% 0,5W
3405	4822 050 24703	47k 5% 0,5W
3406	4822 050 21803	18k 5% 0,5W
3407	4822 050 21803	18k 5% 0,5W
3408	4822 050 22203	22k 5% 0,5W
3409	4822 050 22203	22k 5% 0,5W
3410	4822 050 24704	470k 5% 0,5W
3411	4822 050 24704	470k 5% 0,5W
3412	4822 050 22203	22k 5% 0,5W
3413	4822 050 22203	22k 5% 0,5W
3414	4822 050 22203	22k 5% 0,5W
3415	4822 050 22203	22k 5% 0,5W
3416	4822 050 22203	22k 5% 0,5W

		
6401	4822 130 30621	1N4148 (NSC)
6402	4822 130 34233	BZX55-C5V1
6403	4822 130 40938	BC548
6404	4822 130 40941	BC558
6405	5322 209 11118	PC74HCT373P
6407	4822 209 72102	X2816BP
6408	4822 130 40938	BC548
6409	4822 130 40938	BC548
6410	4822 209 61803	PCB83C654P/AC004



3366	5322 111 90096	1k2 2% 0,25W
3367	5322 111 90096	1k2 2% 0,25W
3368	5322 116 80426	100Ω 1% 0,125W
3369	5322 116 80426	100Ω 1% 0,125W
3370	5322 111 90096	1k2 2% 0,25W
3371	5322 111 90096	1k2 2% 0,25W
3372	4822 111 90249	10k 2% 0,25W
3381	5322 116 80426	100Ω 1% 0,125W
3390	4822 116 81165	1M 1% 0,125W
3391	5322 116 81136	1k2 2% 0,25W
3801	4822 111 90163	jumper
3802	4822 111 90163	jumper
3803	4822 111 90163	jumper
3804	4822 111 90163	jumper
3805	4822 111 90163	jumper
3806	4822 111 90163	jumper
3807	4822 111 90163	jumper
3808	4822 111 90163	jumper
3809	4822 111 90163	jumper
3810	4822 111 90163	jumper
3811	4822 111 90163	jumper
3812	4822 111 90163	jumper
3813	4822 111 90163	jumper
3814	4822 111 90163	jumper
3815	4822 111 90163	jumper
3816	4822 111 90163	jumper
3818	4822 111 90163	jumper
3886	4822 111 90163	jumper
3887	4822 111 90163	jumper
3888	4822 111 90163	jumper
3890	4822 111 90163	jumper



5301	4822 157 53139	4.7μH
5302	4822 157 53139	4.7μH
5303	4822 157 53473	1000μH
5304	4822 157 53473	1000μH
5305	4822 157 53473	1000μH
5306	4822 157 53473	1000μH
5307	4822 157 60363	ANTI-INTERFERENCE COIL



6301	4822 209 61802	MC74HCU04D
6302	4822 209 61708	SAA7321GP
6303	4822 209 61708	SAA7321GP
6305	4822 130 42696	BC818-25
6306	4822 130 42696	BC818-25
6307	4822 130 42696	BC818-25
6308	4822 130 42696	BC818-25
6309	4822 209 70226	NJM5534D
6310	4822 209 70226	NJM5534D

VARIABLE HEADPHONE OUTPUT PANEL

Miscellaneous			
BU-5	4822 267 31065	HEADPHONE SOCKET	
1201	4822 100 30061	10k 20% 0,05W	
			
2201	5322 124 21762	100μF 20% 10V	
2202	5322 124 21762	100μF 20% 10V	
2203	5322 124 21711	100μF 20% 25V	
2204	5322 124 21711	100μF 20% 25V	
			
3201	4822 050 21001	100Ω 5% 0,5W	
3202	4822 050 21001	100Ω 5% 0,5W	
3203	4822 050 21003	10k 5% 0,5W	
3204	4822 050 21003	10k 5% 0,5W	
3205	4822 111 30508	10Ω 5% 0,33W	
3206	4822 111 30508	10Ω 5% 0,33W	
3207	4822 050 22703	27k 5% 0,5W	
3208	4822 050 22703	27k 5% 0,5W	
3209	4822 050 21202	1k2 5% 0,5W	
3210	4822 050 21202	1k2 5% 0,5W	
3211	4822 050 21501	150Ω 1% 0,6W	
3212	4822 050 21501	150Ω 1% 0,6W	
  			
6201	4822 209 82362	NJM4556D	
6203	4822 130 44121	BC338	
6204	4822 130 44121	BC338	

MISCELLANEOUS

1501	4822 253 30009	FUSE 160 mA
5001	4822 146 21441	MAINSTRANSFORMER /00R
		/05R
5001	4822 146 21497	MAINSTRANSFORMER /06B
5500	4822 157 60309	ANTI-INTERFERENCE COIL
	4822 323 20182	OPTICAL FIBER

Modification with A90-122

Page	Reason
Frontpage	Correction
1-1a	Correction
3-5a	Update
3-6a	Correction
4-1a	Correction
5-2a	Correction
5-3a	Correction
5-4a	Correction
5-6a	Adapted to the changes
5-7a	Adapted to the changes
5-8a	Correction
5-9a	Correction
5-10a	Correction
6-1a	Update
6-2a	Update
6-3a	Update
6-4a	Update
6-5a	Update
6-6a	Update
7-1	Modification added