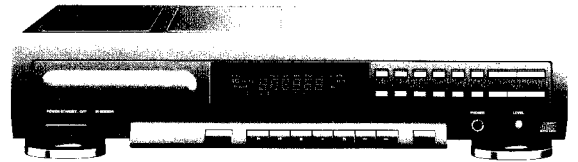


Service
Service
Service



Service Manual

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TECHNICAL SPECIFICATIONS

General

1.Mains voltage	/00S	: 230V (+6 -10%)
	/05S/10S	: 240V ($\pm 10\%$)
	/17S	: 117V ($\pm 10\%$)
	/01S	: Selected by voltage selector
2.Mains frequency		: 50-60 Hz
3.Mains voltage selection		: See circuit diagram Power Supply
4.Power consumption mains,operated		: 10W

External ESI BUS connection

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

Line output

1.Number of channels		: 2
2.Output voltage		: 2 Vrms \pm 3dB
3.Unbalance left-right		: max. \pm 1,2dB at 1 kHz
4.Output resistance		: 1 k Ω
5.Signal to noise ratio		: min. 84dB from 20 Hz to 20 kHz
		: typ. 89dB
6.Total harmonic distortion + noise		: min. 72dB at 1 kHz
		min. 70dB from 20 Hz to 20 kHz
		typ. 75dB at 1kHz
7.Channel separation		: typ. 90dB at 1kHz
		min. 70dB from 20 Hz to 20 kHz
8.Frequence response		: \pm 1dB from 20 Hz to 20 kHz
		: typ. \pm 0,3dB from 20 hz to 20 kHz
9.Frequence response with de-emphasis		: \pm 2dB
10.Automatic switched deemphasis with time constants 15/50 μ s		
11.Dynamic range 20Hz-20kHz		: min. 70dB
12.Non-linearity at -90dB		: min. \pm 2dB
		: typ. \pm 1dB

Variable headphone (low end)

1.Output voltage		: max. 5 Vrms \pm 3dB
2.Unbalance left-right		: max. \pm 1,2dB
3.Output resistance		: 120 Ohm
4.Load impedance range		: 32 Ohm to 600 Ohm load
5.Output power		: 0 to 30 mW into 30 Ohm load
		: 0 to 50 mW into 150 Ohm load
		: 0 to 30 mW into 600 Ohm load

Audio specs in case of 600 Ohm load at 4 Vrms voltage output

6.Signal to noise ratio		: typ. 80 dB
7.Dynamic range		: min. 70 dB (20 Hz -20 kHz)
8.Total harmonic distortion		: min. 60 dB (20 Hz - 20 kHz)
9.Channel separation		: min. 70 dB (1 kHz)
		: min. 65 dB (31,5 Hz - 16 kHz)

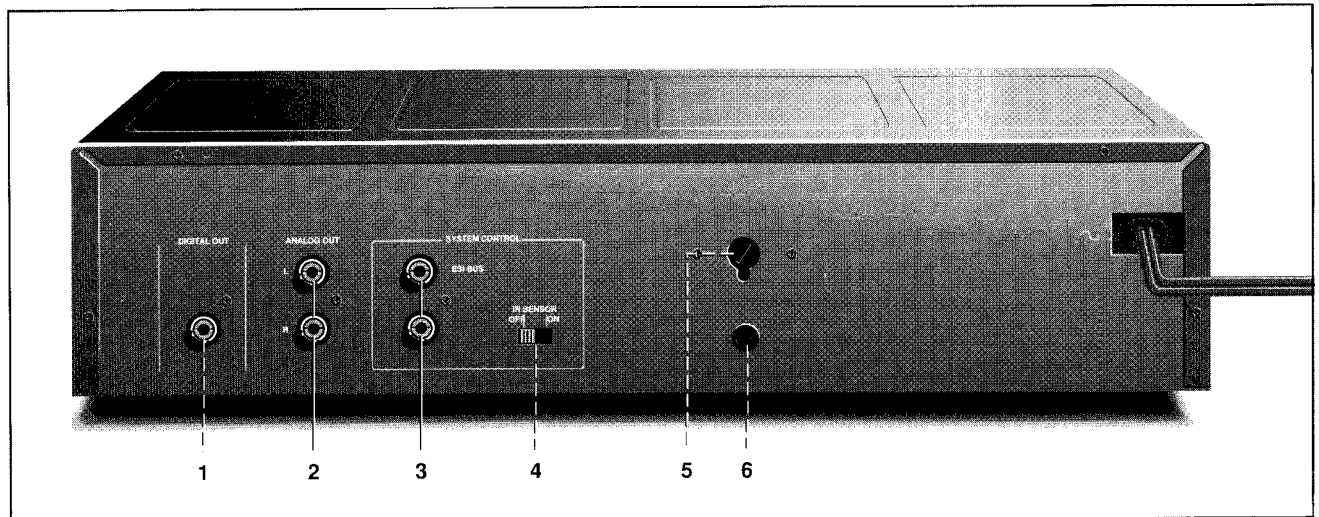
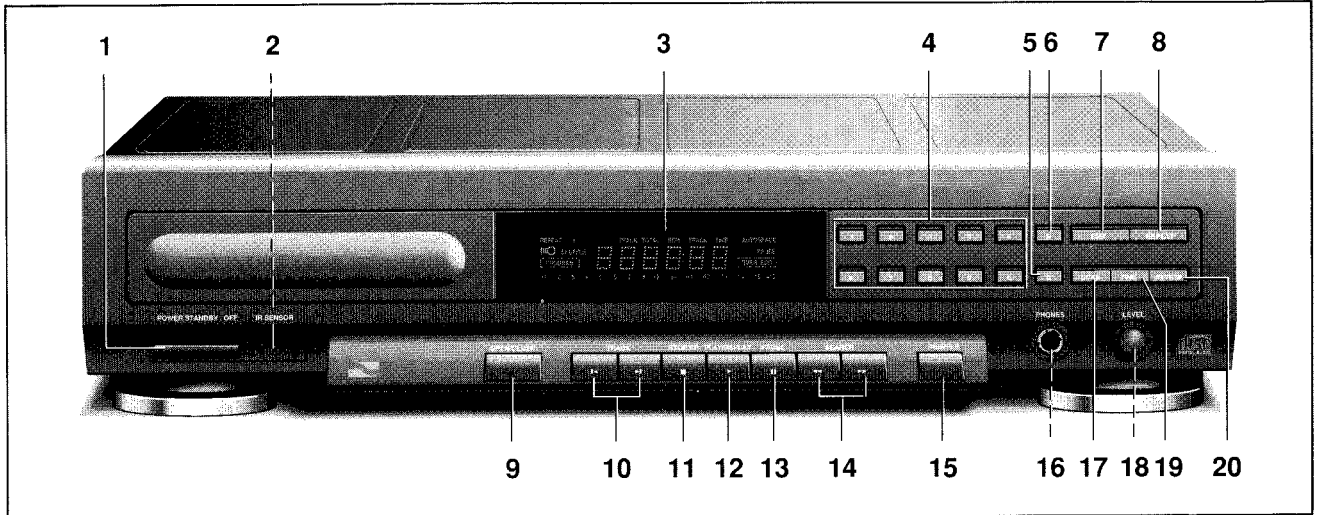
Dimensions and weight

1.Apparatus tray closed		: WxDxH 435 x 300 x 90/106 mm
2.Apparatus tray open		: WxDxH 435 x 445 x 90/106 mm
3.Weight		: 4 kg

Optical read-out system

1.Laser type		: Semiconductor AlGaAs
2.Wavelength		: 780 nm \pm 20 nm
3.Light output (c.w.)		: max. 0,5 mW

CONTROLS AND CONNECTIONS



CONTROLS

Indication on App.	Indication in diagram
1. POWER ON/OFF	SK-1
2. IR SENSOR	1461(only CD920)
3. Display	1450
4. 1-0 digit keys	1420,1421,1422,1427,1428, 1434,1435,1441,1442,1443
5. C(ancel)	1436
6. P(rogram)	1429
7. EDIT	1423
8. REPEAT	1430
9. OPEN/CLOSE	1426
10. < TRACK >	1425 1440
11. STOP/CP	1433
12. PLAY/REPLAY	1432
13. PAUSE	1439
14. << SEARCH >>	1438 1445
15. SHUFFLE	1446
16. PHONES	BU-5
17. SCAN	1444
18. LEVEL	3370
19. TIME	1437
20. REVIEW	1431

CONNECTIONS

Indication on App.	Indication in diagram
1. DIGITAL OUT(only CD920)	BU-4
2. ANALOG OUT	BU-2
3. ESI BUS	BU-3
4. IR SENSOR ON OFF(only CD920)	SK-2
5. Voltage selector(/01S)	5001
6. Mains fuse holder(/01S)	287,288

4a

(GB) WARNING

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

ESD



(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.

(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 ICs und viele andere Halbleiter sind empfindlich gegen elektrostatische Entladungen (ESD).
Unvorsichtige Behandlung bei der Reparatur kann die Lebensdauer drastisch vermindern. Sorgen sie dafür, dass Sie im Reparaturfall über ein Pulsarmband mit Widerstand mit dem Massepotential des Gerätes verbunden sind. halten Sie Bauteile und Hilfsmittel ebenfalls auf diesem Potential.

(I) AVVERTIMENTO

Tutti IC e parecchi semi-conduttori 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.

(GB)

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

(NL)

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

(D)

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

(I)

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

(F)

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



**CLASS 3B
LASER PRODUCT**

CAUTION

VARO!

VARNING

ADVERSEL

DANGER

VORSICHT

INVISIBLE LASER RADIATION WHEN OPEN AVOID EXPOSURE TO BEAM

AVATTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASER SÄTTEILYLLE ÄLÄ KATSO SÄTEESEN

OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD BETRakta EJ STRÅLEN

USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UNSAETTELSE FOR STRÅLING

INVISIBLE LASER RADIATION WHEN OPEN AVOID DIRECT EXPOSURE TO BEAM

UNSICHTBARE LASERSTRAHLUNG WENN ABDECKUNG GEÖFFNET NICHT DEM STRAHL AUSSETZEN

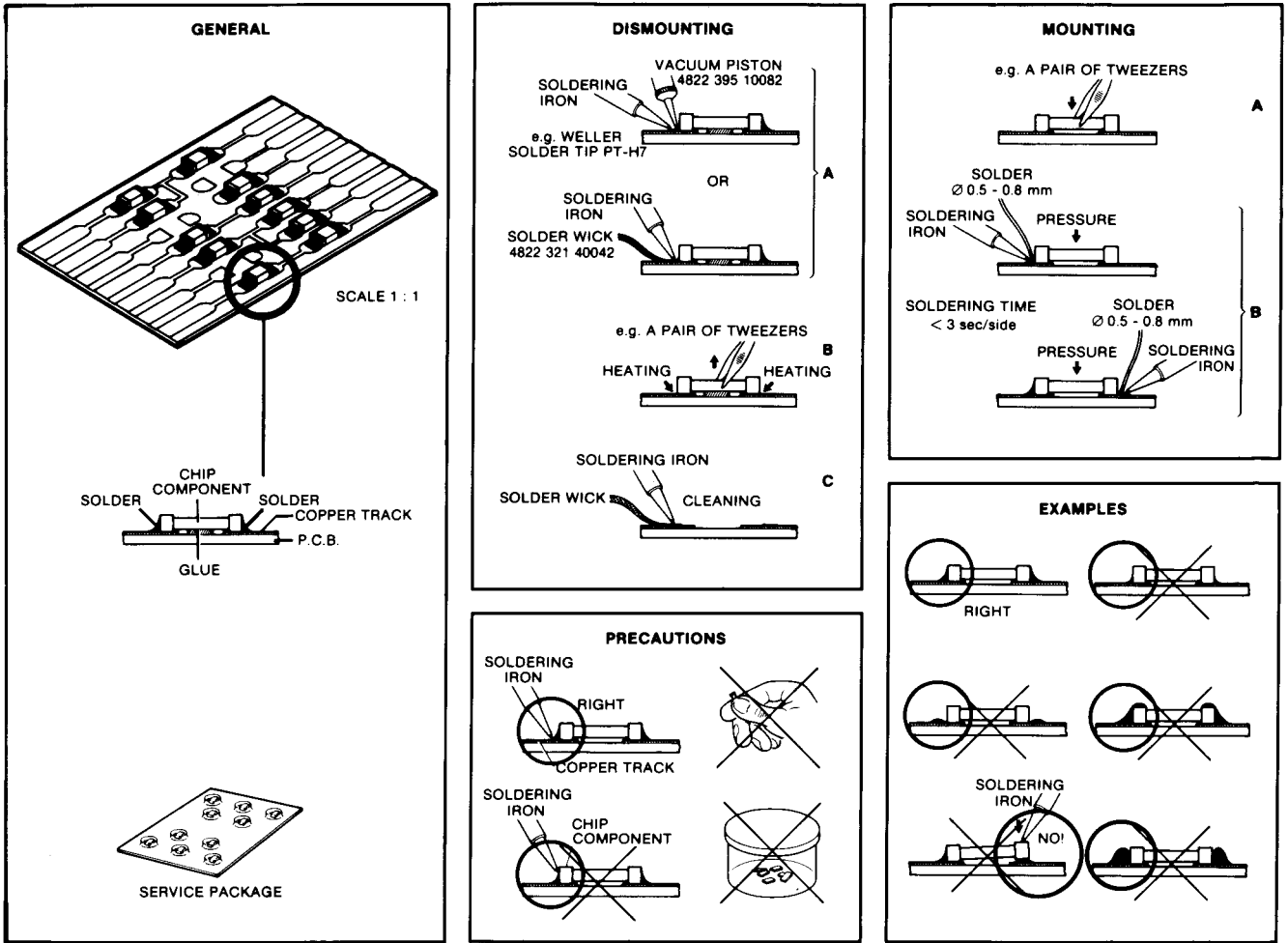
**CLASS 1
LASER PRODUCT**

3122 110 03420

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

SERVICING HINTS

In the set chip components have been applied. For disassembly and assembly of chip components see the figure below.



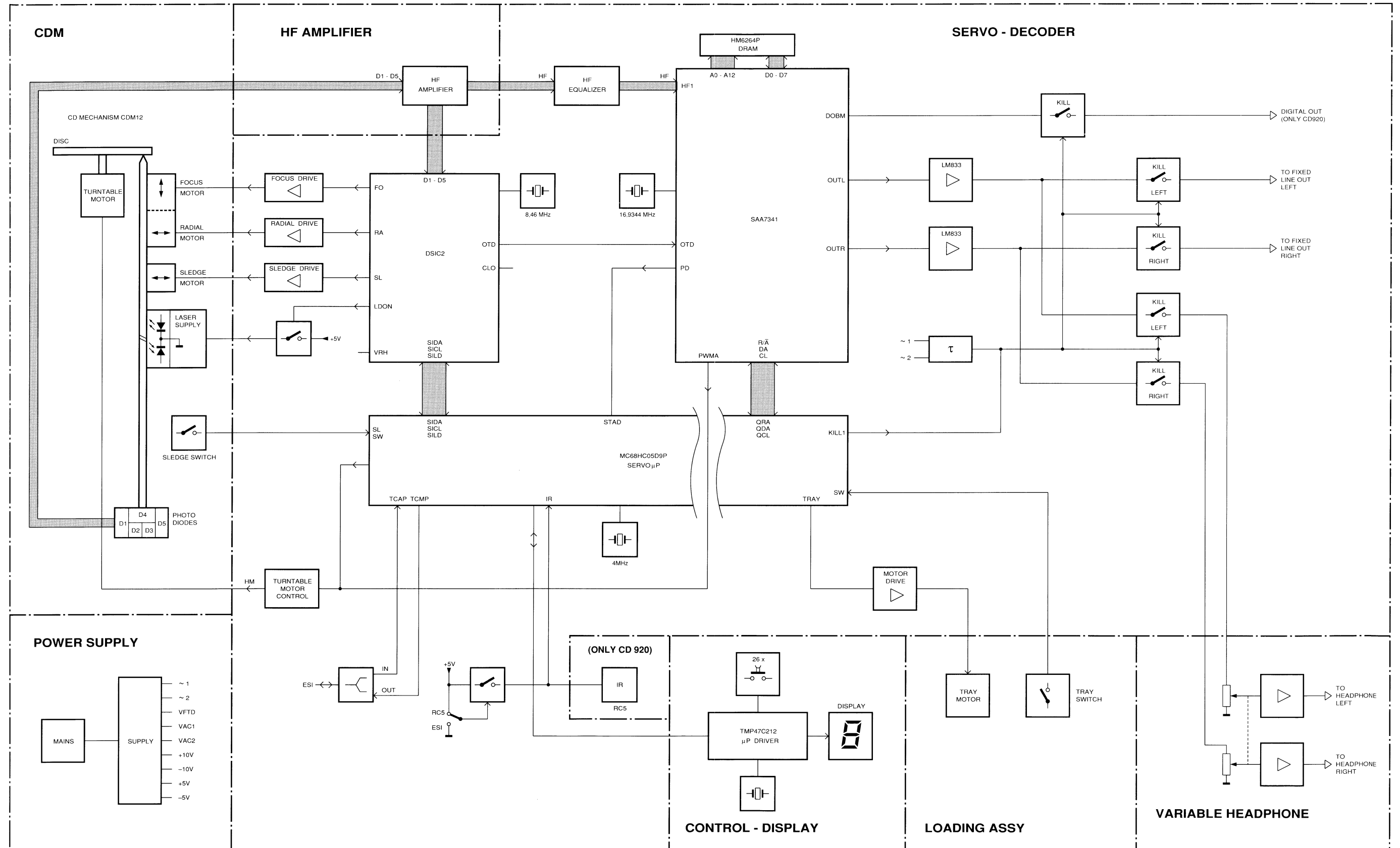
27 012C12

SERVICE TOOLS

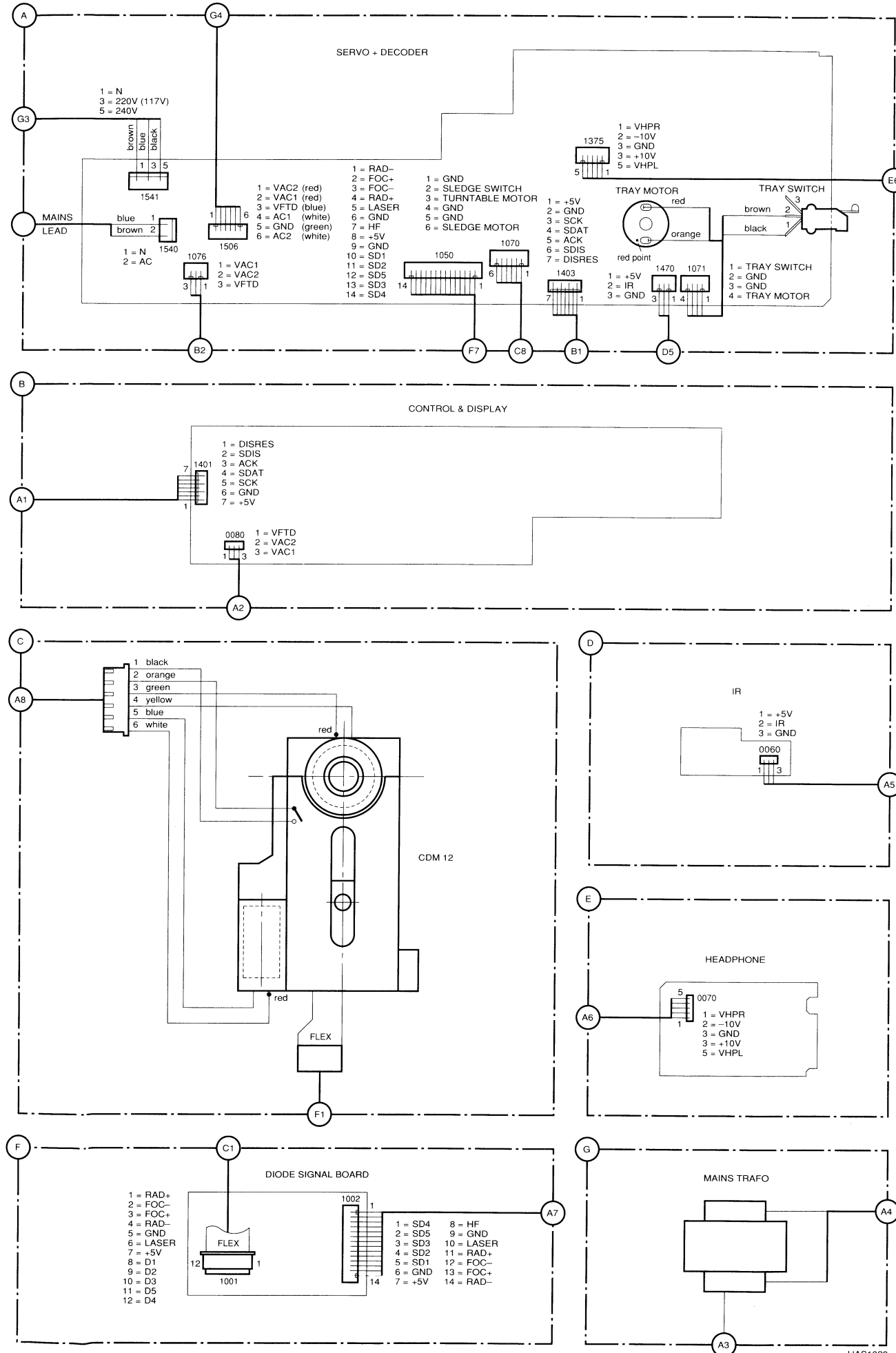
Audio signal disc	4822 397 30184
Disc without errors (test disc 5) + disc with DO errors, black spots and fingerprints (test disc 5A)	4822 397 30096
Disc (65 min 1kHz) without pause	4822 397 30155
Max. diameter disc (58.0 mm)	4822 397 60141
Torx screwdrivers	
Set (straight)	4822 395 50145
Set (square)	4822 395 50132
13th order filter	4822 395 30204

<u>A0-A12</u>	- Address outputs to external RAM
AM	- Additional mute
CFB	- Data slicer feedback output to capacitor
CL	- Microprocessor interface clock input
CLO	- Clock output
D0-D7	- Data inputs/outputs to external RAM
D1-D4	- Central diode signal input
DA	- Microprocessor interface data input/output line
DE1L	- Pin 1 for external de-emphasis capacitor and resistor
DE1R	- Pin 1 for external de-emphasis capacitor and resistor
DE2L	- Pin 2 for external de-emphasis capacitor and resistor
DE2R	- Pin 2 for external de-emphasis capacitor and resistor
DEEM	- Output for external de-emphasis switches
DOBM	- Digital audio output
ESI	- Enhanced System Intelligence
FO	- Focus actuator output
<u>HFD</u>	- High-frequency detector
HFI	- Inverting data slicer input
HFI	- Non-inverting data slicer input
HM	- Motor control signal
<u>IREF</u>	- Current reference output
KO	- Kill out
KTC	- Kill time capacitor connection
LDON	- Laser drive on
MACC	- Motor accelerate signal
MBRA	- Motor brake signal
MHAL	- Hall effect detector for motor
NRST	- Reset input
OC	- VCO control
OTD	- Off track detector
OUTL	- Left channel output
OUTR	- Right channel output
PD	- Phase detector
PWMA	- Pulse width modulated motor control acceleration
PWMB	- Pulse width modulated motor control brake signal
R/A	- Request/acknowledge
R1-R2	- Satellite diode signal input
RA	- Radial actuator output
SD1-5	- Photodiode signals
SICL	- Serial interface clock
SIDA	- Serial interface data
SILD	- Serial interface load
<u>SL</u>	- Sledge output
ST	- Standby mode
TS1-TS2	- Test input
VddA	- Power supply analog part
VddD	- Power supply digital part
VddD	- Power supply digital part
VRH	- Reference input for A/D converter
VRL	- Reference input for A/D converter
VssA	- Ground analog part
VssD	- Ground digital part
WE	- Write enable
XIN	- Crystal oscillator input
XOUT	- Output to clock crystal
XTLI	- Oscillator input
XTLO	- Oscillator output
XTLR	- Oscillator reference

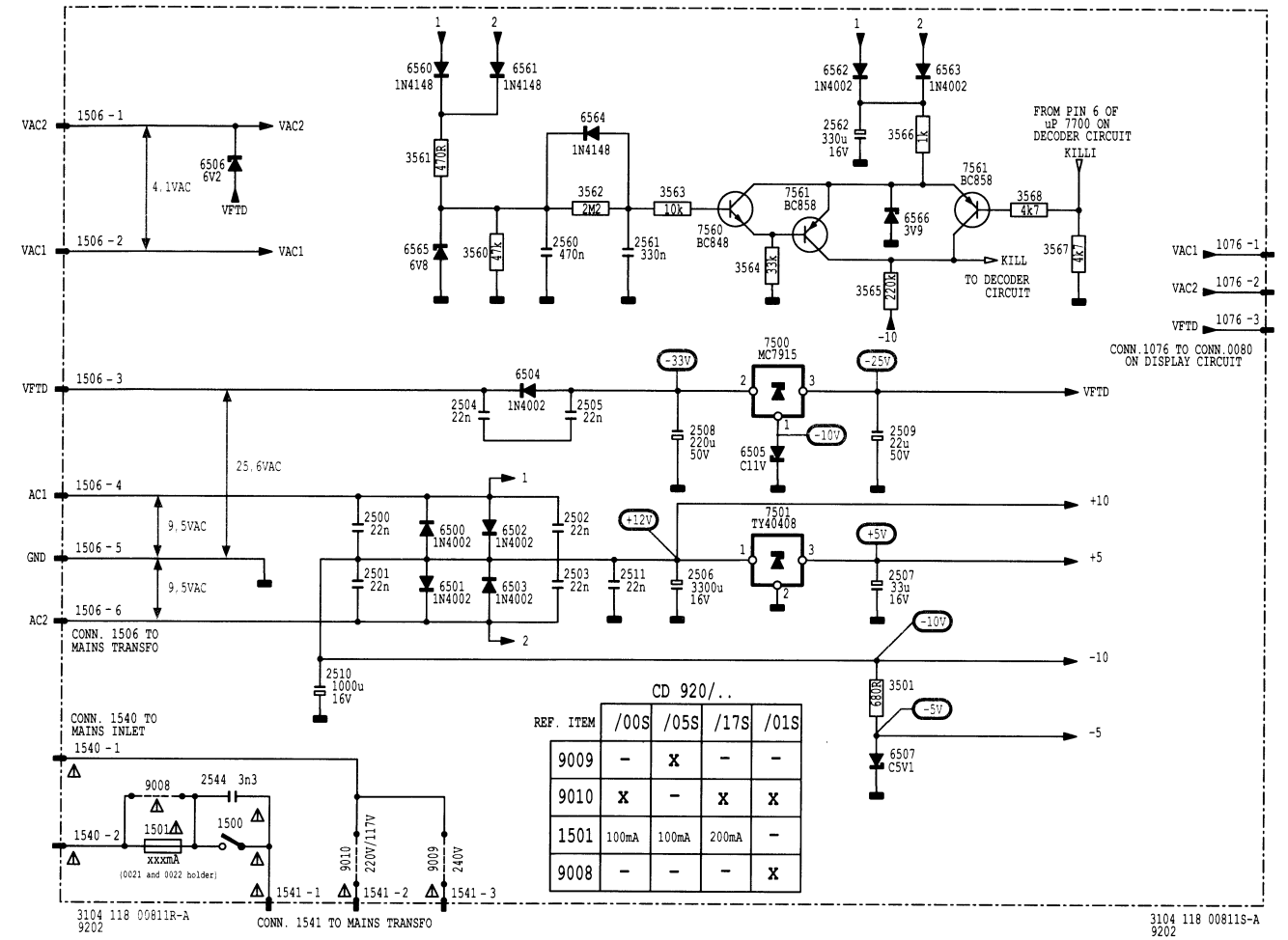
BLOCK DIAGRAM



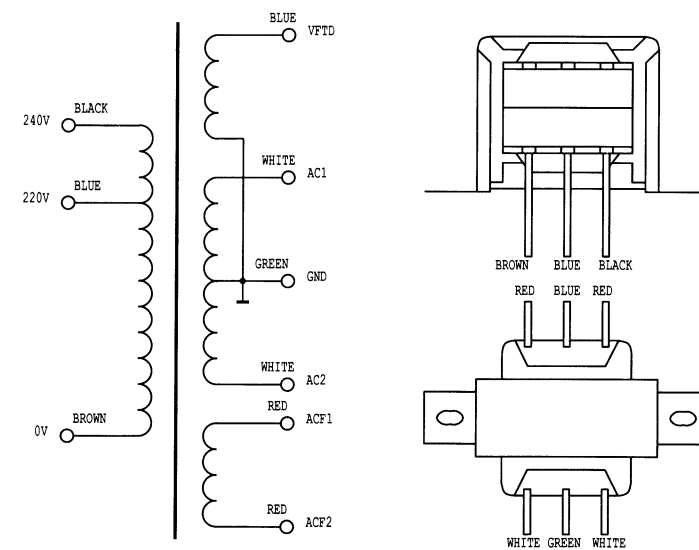
WIRING DIAGRAM



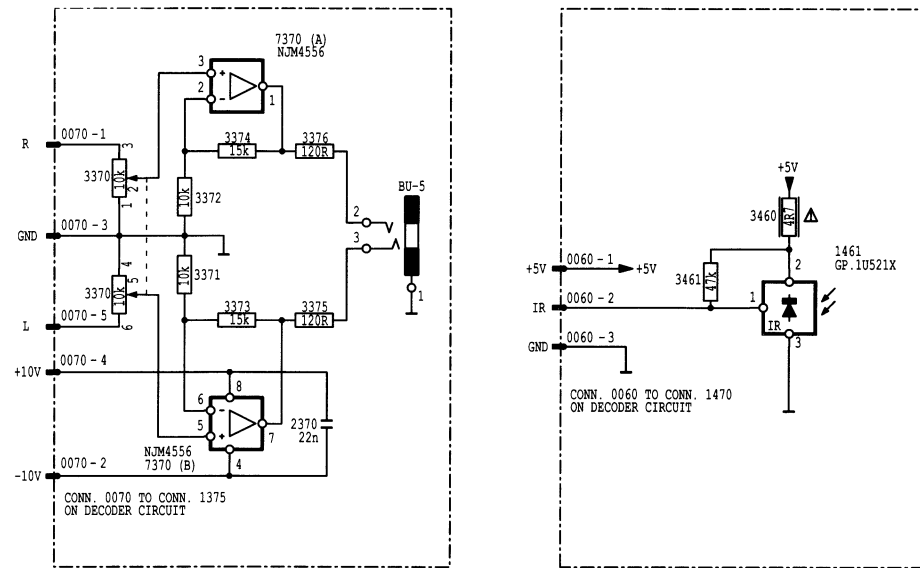
POWER SUPPLY DIAGRAM



TRANSFORMER CONNECTIONS

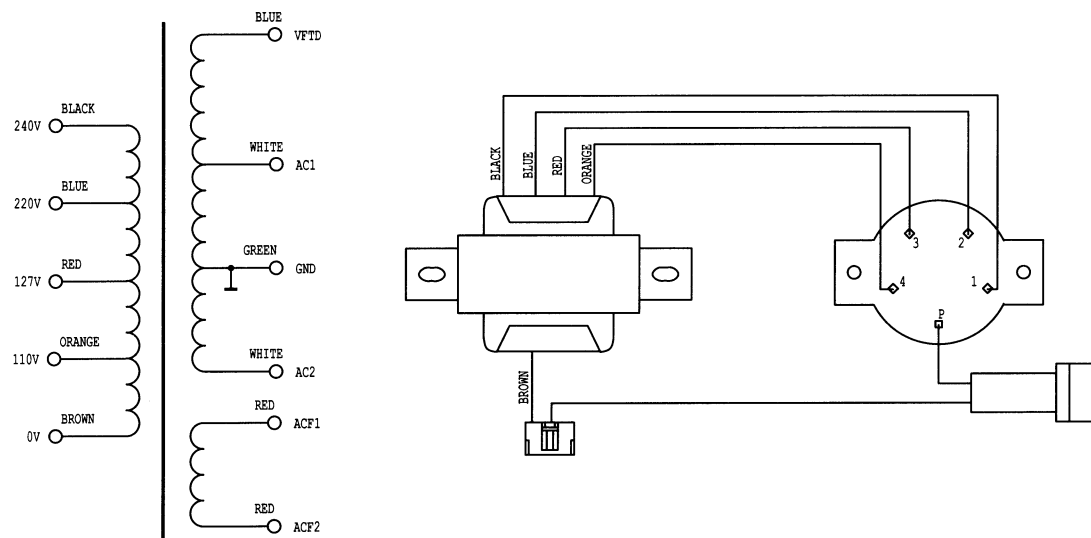


HEADPHONE & IR CIRCUIT DIAGRAM



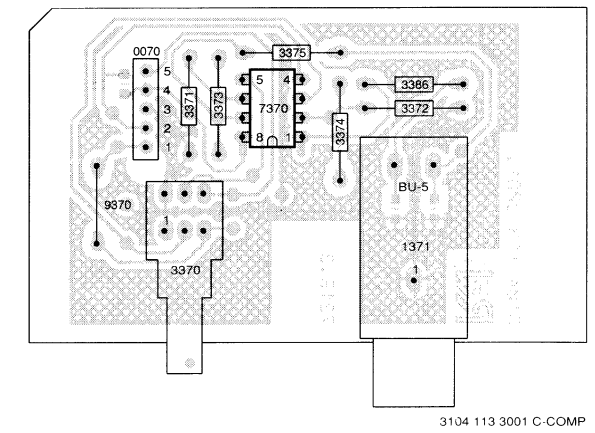
3104 118 008115-E
9202

VOLTAGE SELECTOR



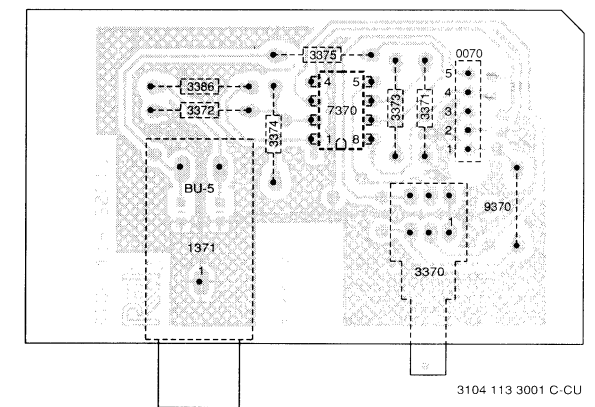
HAS1055
9213

HEADPHONE PANEL
COMPONENT SIDE



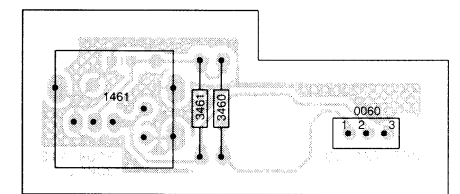
3104 113 3001 C-COMP

SOLDER SIDE



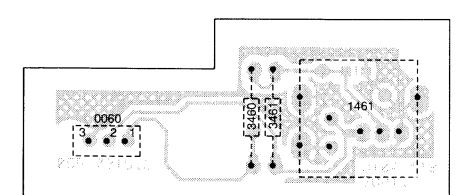
3104 113 3001 C-CU

IR PANEL
COMPONENT SIDE



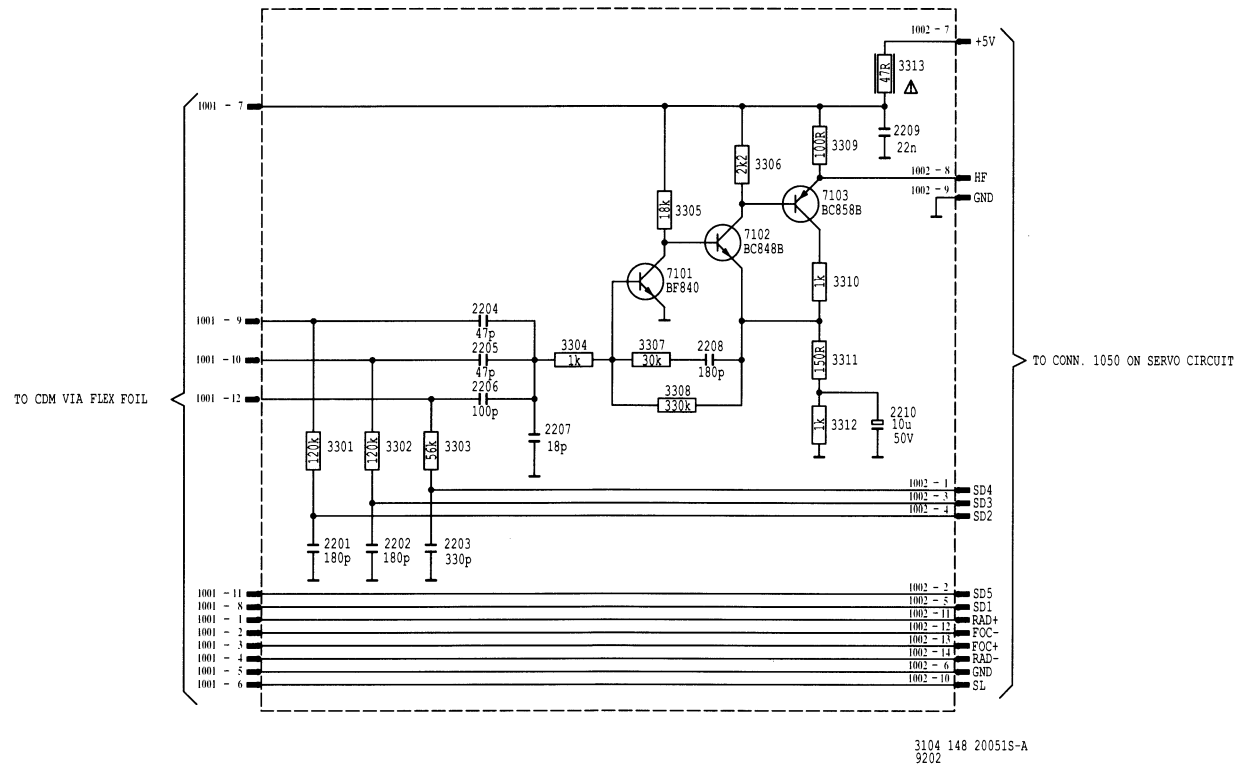
3104 113 3001 D-COMP

SOLDER SIDE



3104 113 3001 D-CU

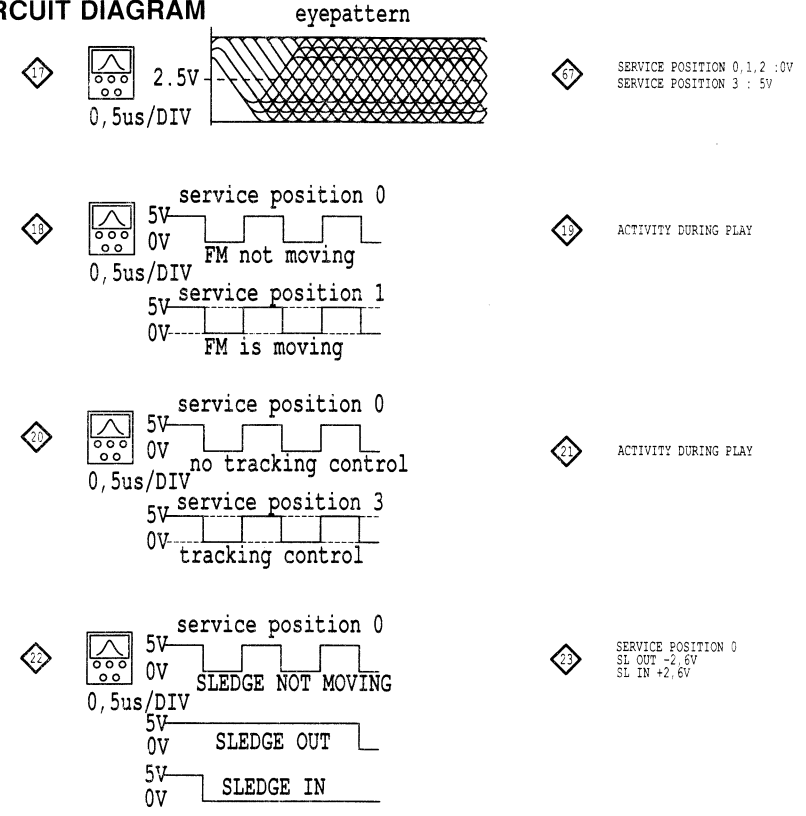
HF CIRCUIT DIAGRAM



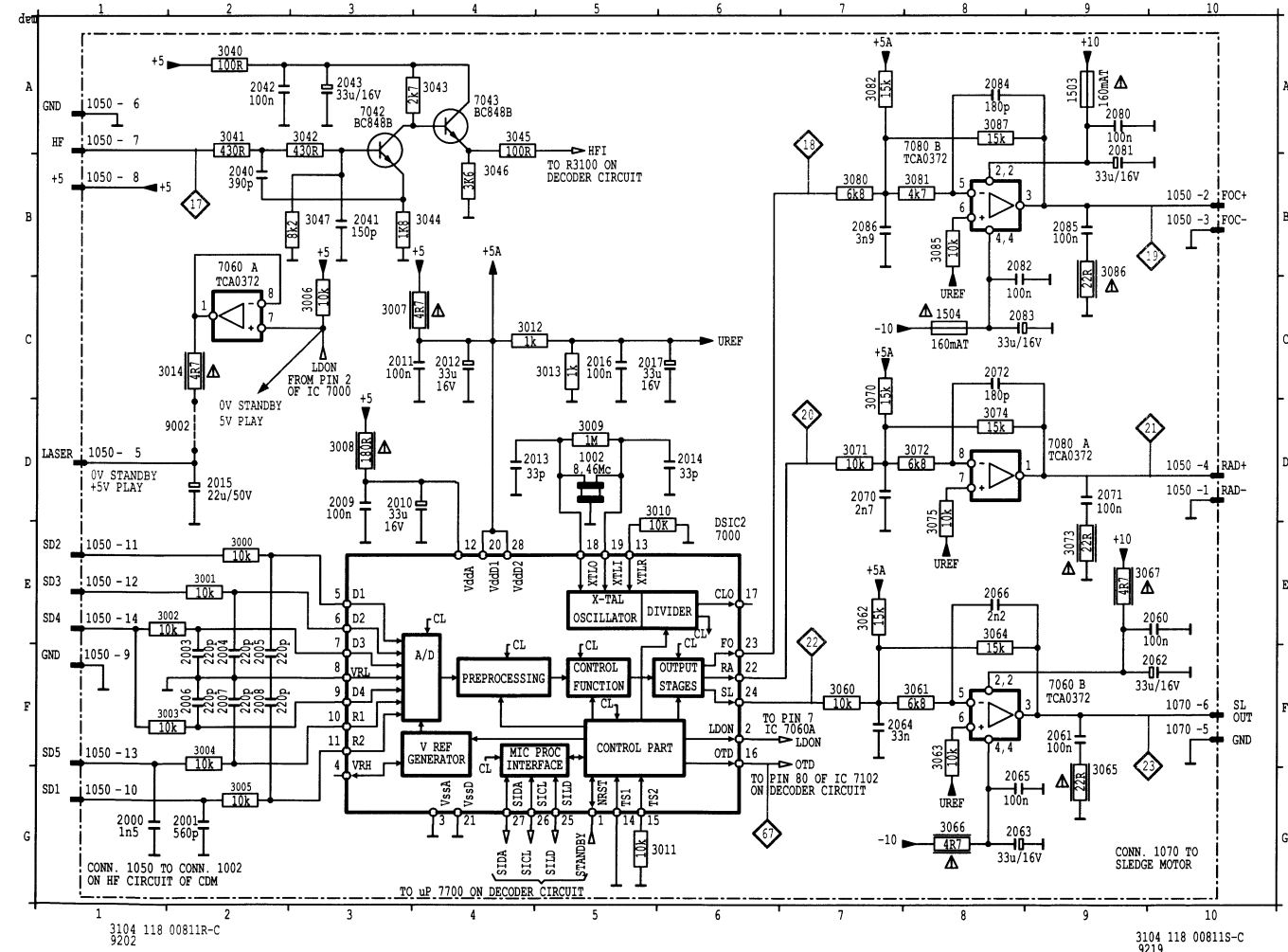
3104 148 20051S-A
9202

HF PANEL CAN BE ORDERED WITH SERVICE CODE 4822 214 51946

SERVO CIRCUIT DIAGRAM

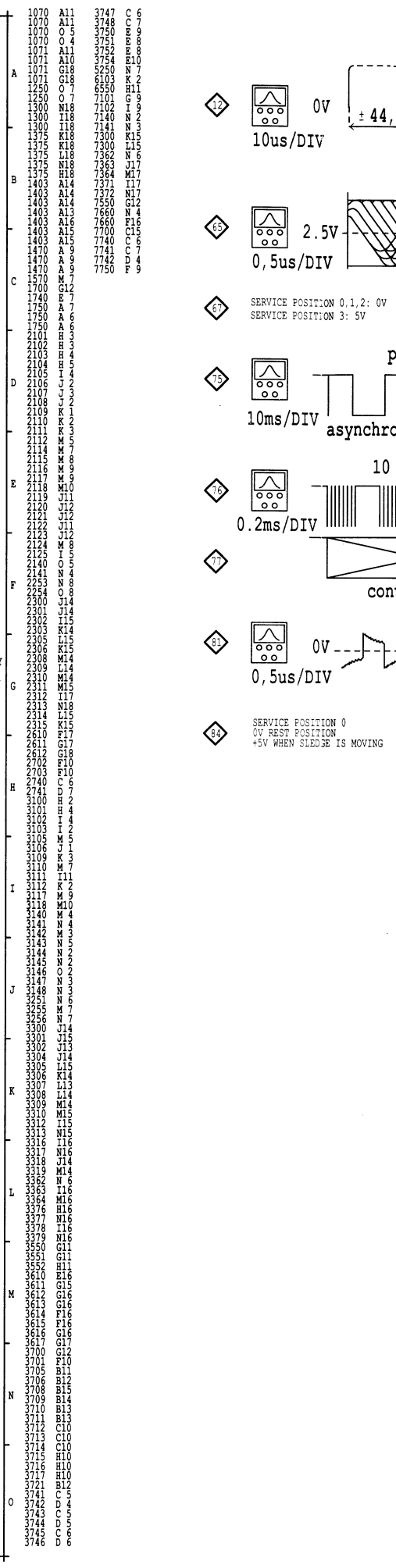
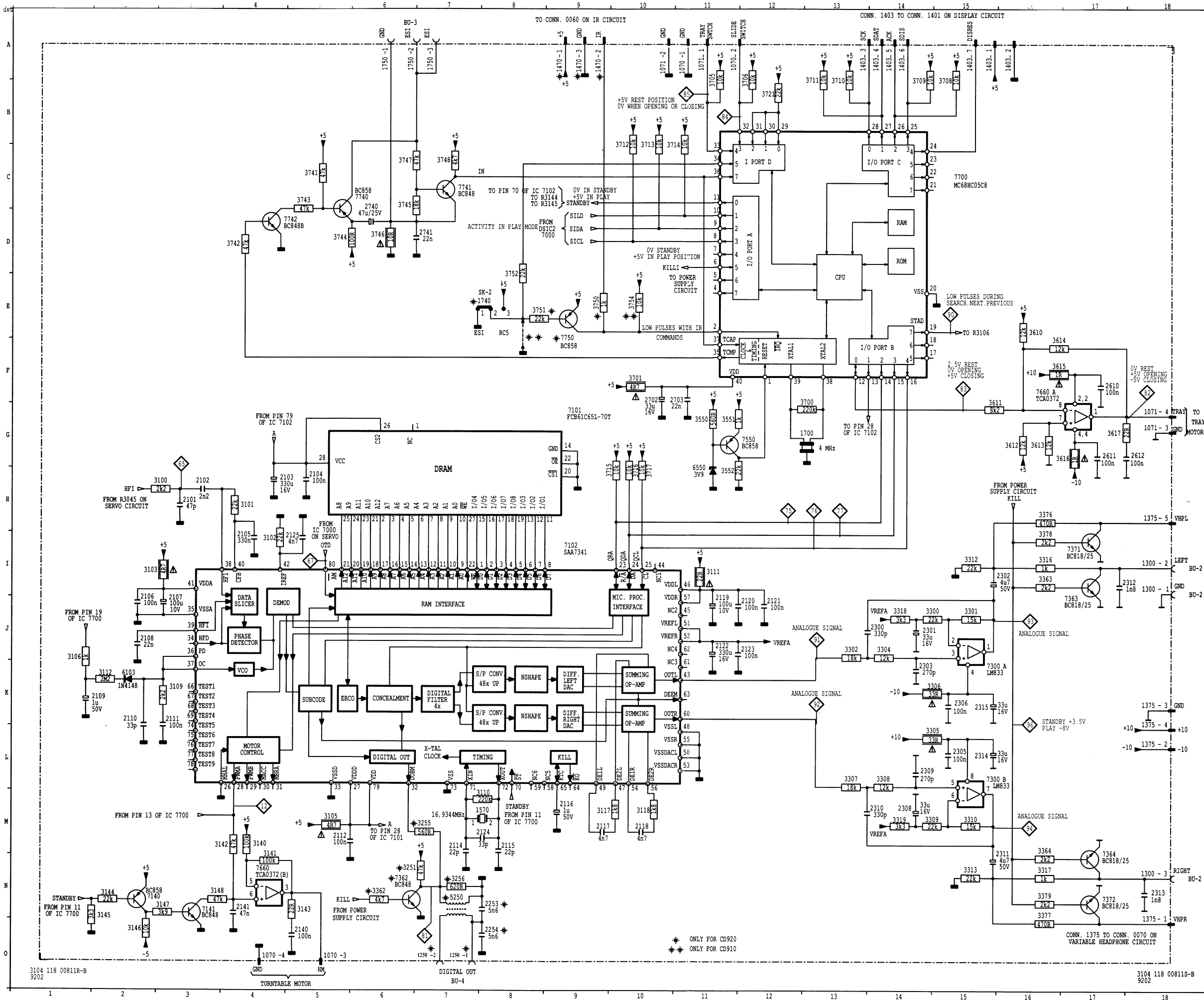


1002	D 5	1050	E 1	1070	F 10	2006	F 2	2014	D 6	2060	E 10	2071	D 9	2086	B 7	3007	C 3	3040	A 2	3060	F 7	3070	C 7	3082	A 7	7060	F 9
1050	D 1	1050	E 1	1503	A 9	2007	F 2	2015	D 6	2061	F 9	2072	D 9	2087	B 7	3008	D 3	3041	A 2	3061	F 7	3071	D 7	3083	E 8	7060	A 7
1050	B 1	1050	D 10	1504	C 8	2008	D 2	2016	C 5	2062	F 10	2080	C 4	2088	A 9	3009	D 3	3042	A 3	3062	D 7	3072	D 8	3086	B 6	7060	A 7
1050	A 1	1050	D 10	2000	2000	2009	D 3	2017	C 5	2063	F 10	2081	B 7	2089	B 7	3010	D 3	3043	A 4	3063	A 4	3073	D 8	3087	A 8	9002	D 2
1050	A 1	1050	D 10	2001	2011	2040	B 2	2041	B 2	2064	F 10	2082	A 9	2090	B 7	3011	D 3	3044	A 4	3064	A 4	3074	D 8	3088	A 8		
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1050	F 1	1050	B 10	2004	2012	2042	A 2	2042	A 2	2066	D 7	2084	B 9	2091	C 3	3013	C 2	3046	B 4	3066	B 4	3076	B 7	3091	A 4		
1050	E 1	1070	F 10	2005	F 2	2013	D 5	2043	A 3	2070	D 7	2085	B 9	3006	C 3	3014	C 2	3047	B 3	3067	E 10	3081	B 8	7060	B 2		



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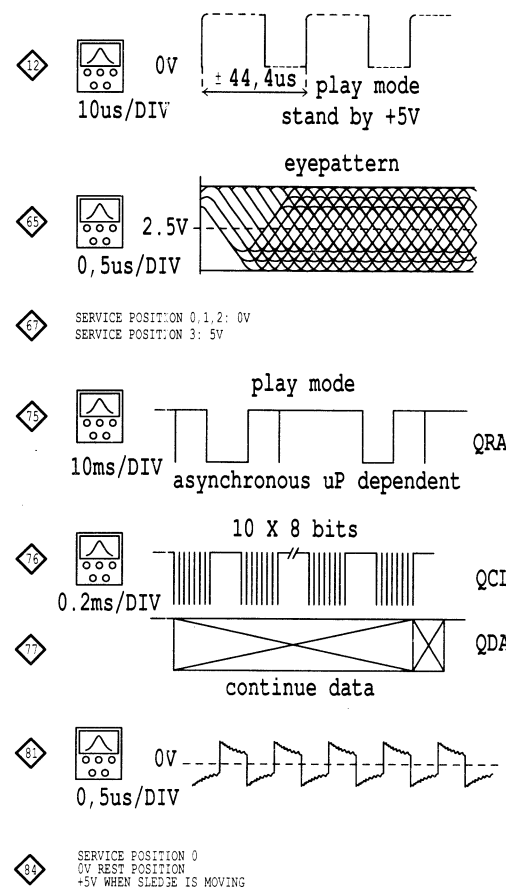
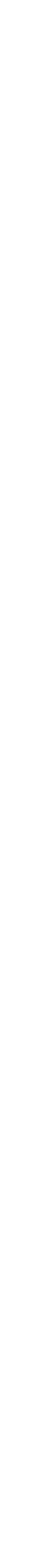
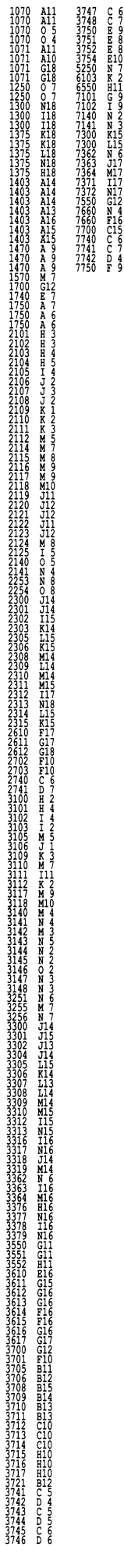
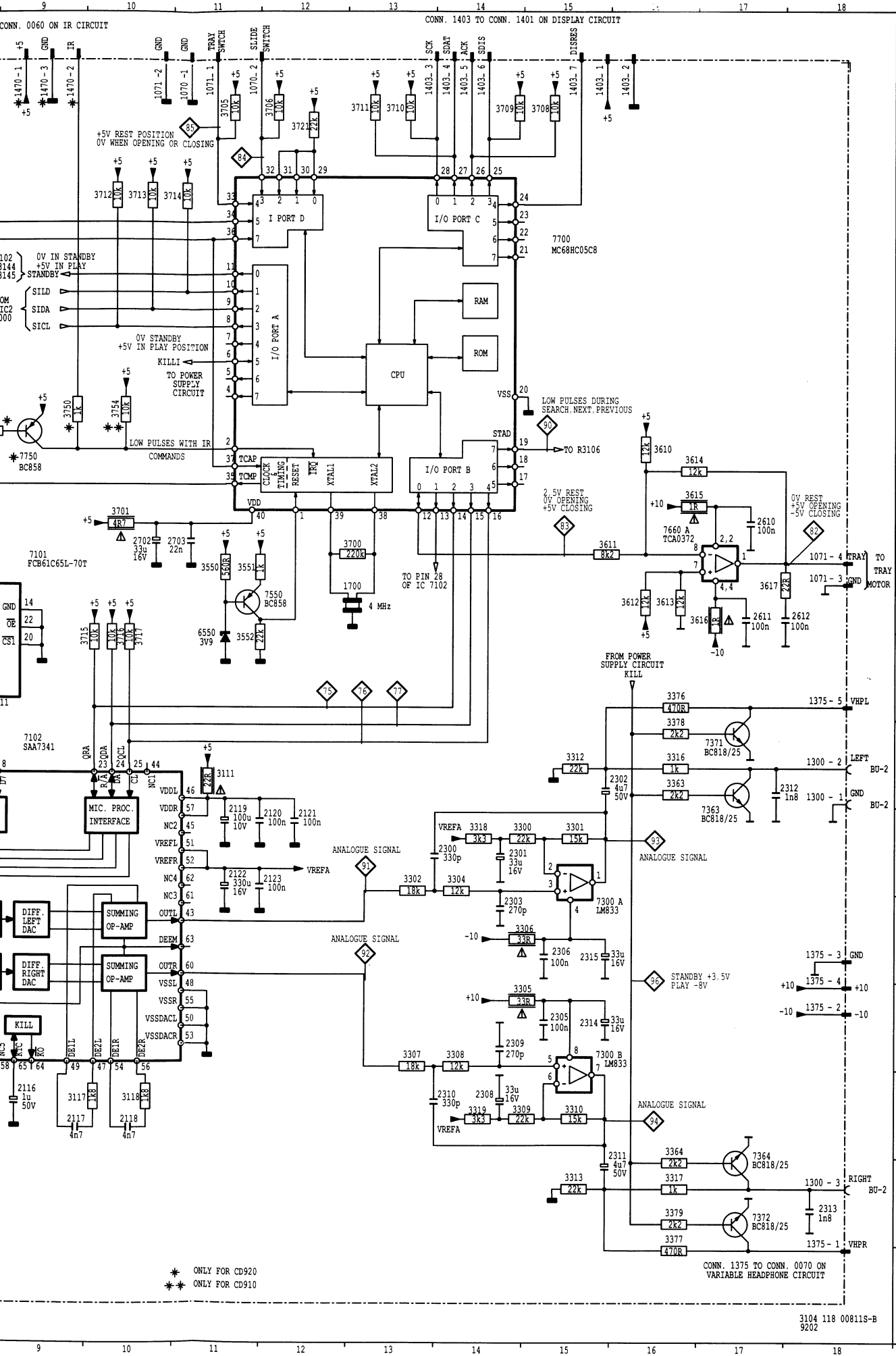
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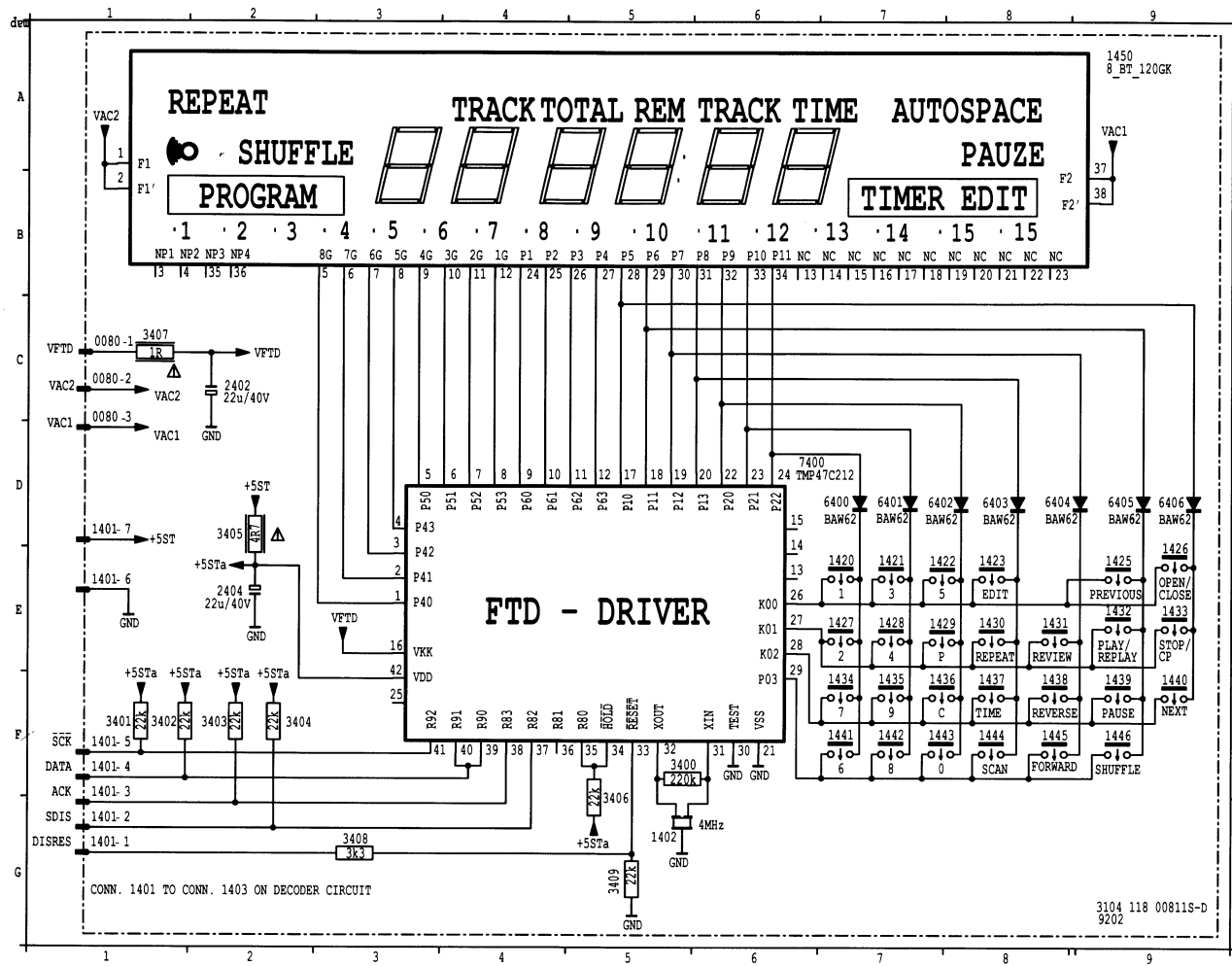
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* ONLY FOR CD920
** ONLY FOR CD910



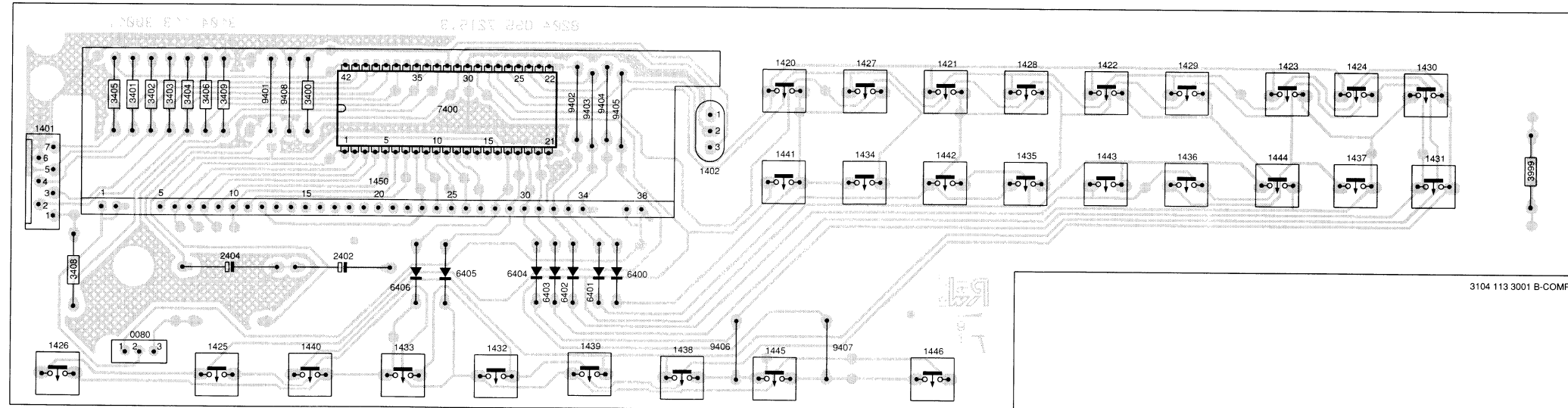
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CONTROL & DISPLAY CIRCUIT DIAGRAM



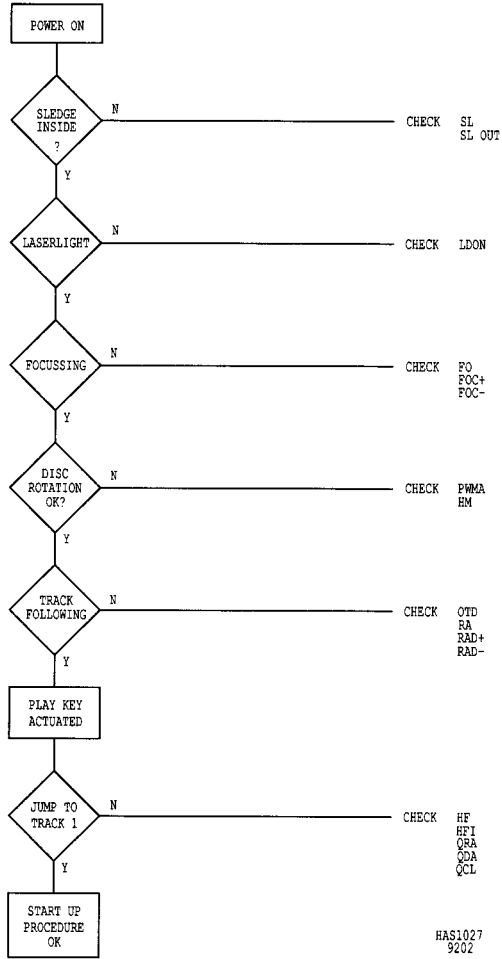
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7400
7400

CONTROL & DISPLAY PANEL

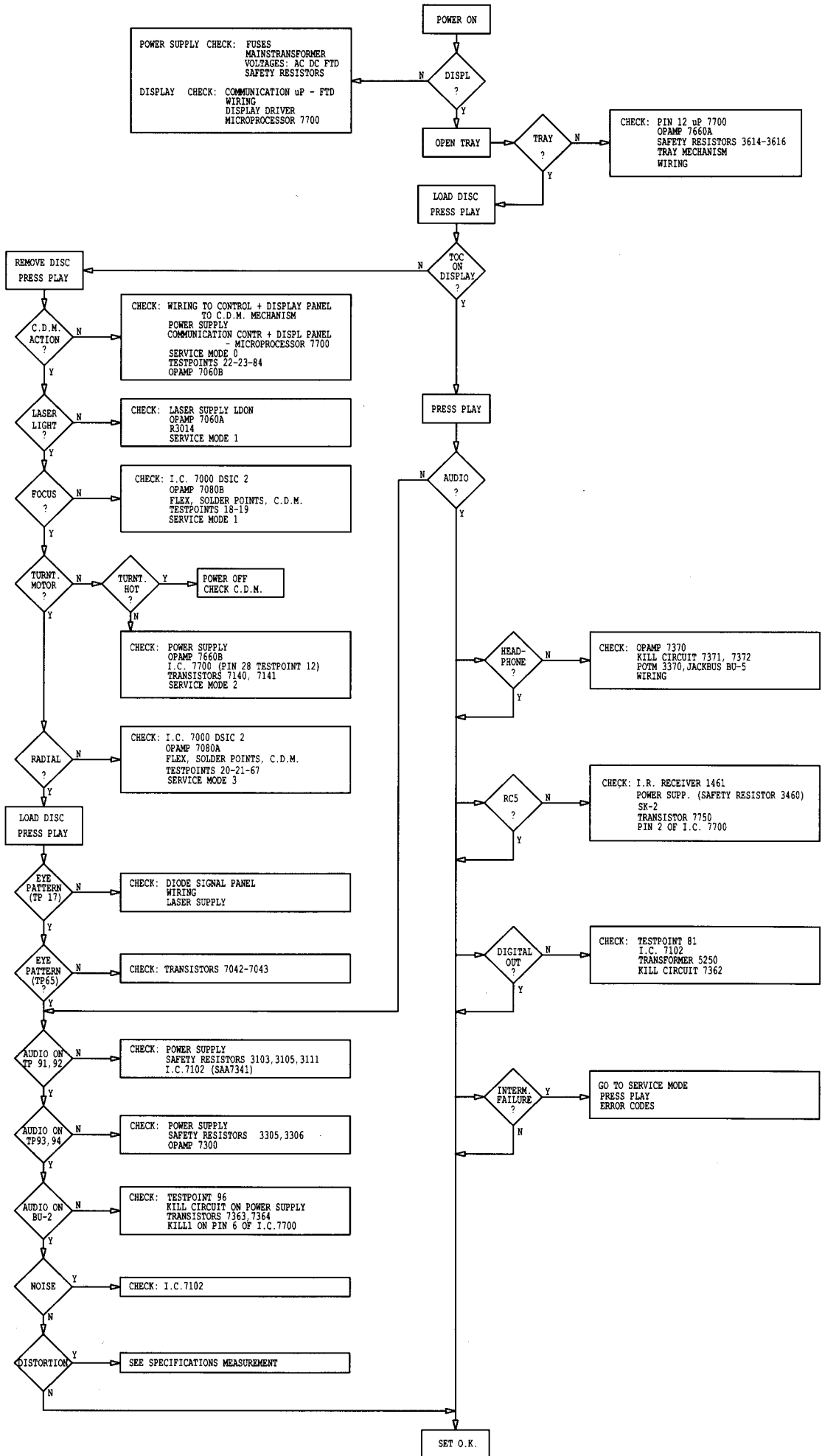


3104 113 3001 B-COMP

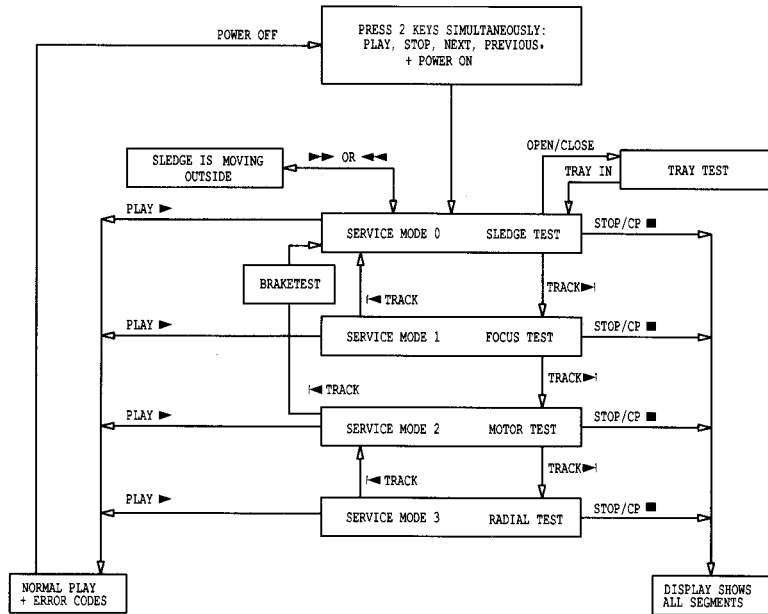
START UP PROCEDURE



FAULTFINDING GUIDE



SERVICE TEST PROGRAM

HAS1025
9202

ERROR CODE TABLE

SYSTEM ERRORS

ERROR 02	Focus error
ERROR 07	Subcode error
ERROR 08	TOC error
ERROR 09	CD4 error
ERROR 10	Radial error
ERROR 11	Non fatal sledge error
ERROR 12	Fatal sledge error
ERROR 13	Turntable motor error
ERROR 31	Search time out error
ERROR 32	Binary search time out error
ERROR 33	Index not found
ERROR 34	Relative time not found

OPERATING ERROR MESSAGES




ERROR 40	" GO INTO STOP "
ERROR 41	" GO INTO PLAY "
ERROR 42	" NO PROGRAM "
ERROR 43	" PRESS REVIEW "
ERROR 44	" EDIT ACTIVE "
ERROR 45	" CD DUBBING ACTIVE "
ERROR 46	" PROGRAM CANCELLED "
ERROR 47	" USE 0-9 "
ERROR 48	" WRONG TRACK "
ERROR 49	" WRONG TIME "
ERROR 50	" NO EDIT POSSIBLE "

CLASS 3B
LASER PRODUCT

CAUTION
VARO!
WARNING
ADVERSEL
DANGER
VORSICHT

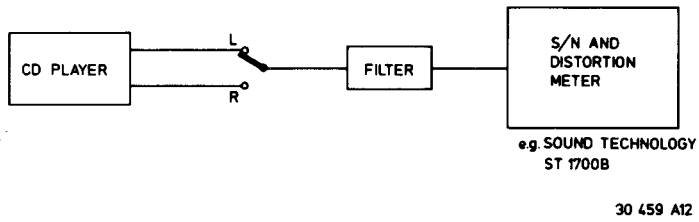
INVISIBLE LASER RADIATION WHEN OPEN AVOID EXPOSURE TO BEAM
 AVATTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASER SÄTTEILYLLE ÄLÄ KATSO SÄTEESEN
 OSYNLIG LASERSTRÄLNING NÄR DENNA DEL ÄR ÖPPNAD BETRAKTA EJ STRÅLEN
 USYNLIG LASERSTRÄLNING VED ÅBNING. UNDGÅ UNSAETTELSE FOR STRÅLING
 INVISIBLE LASER RADIATION WHEN OPEN AVOID DIRECT EXPOSURE TO BEAM
 UNSICHTBARE LASERSTRAHLUNG WENN ABDECKUNG GEÖFFNET NICHT DEM STRAHL AUSSETSEN

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

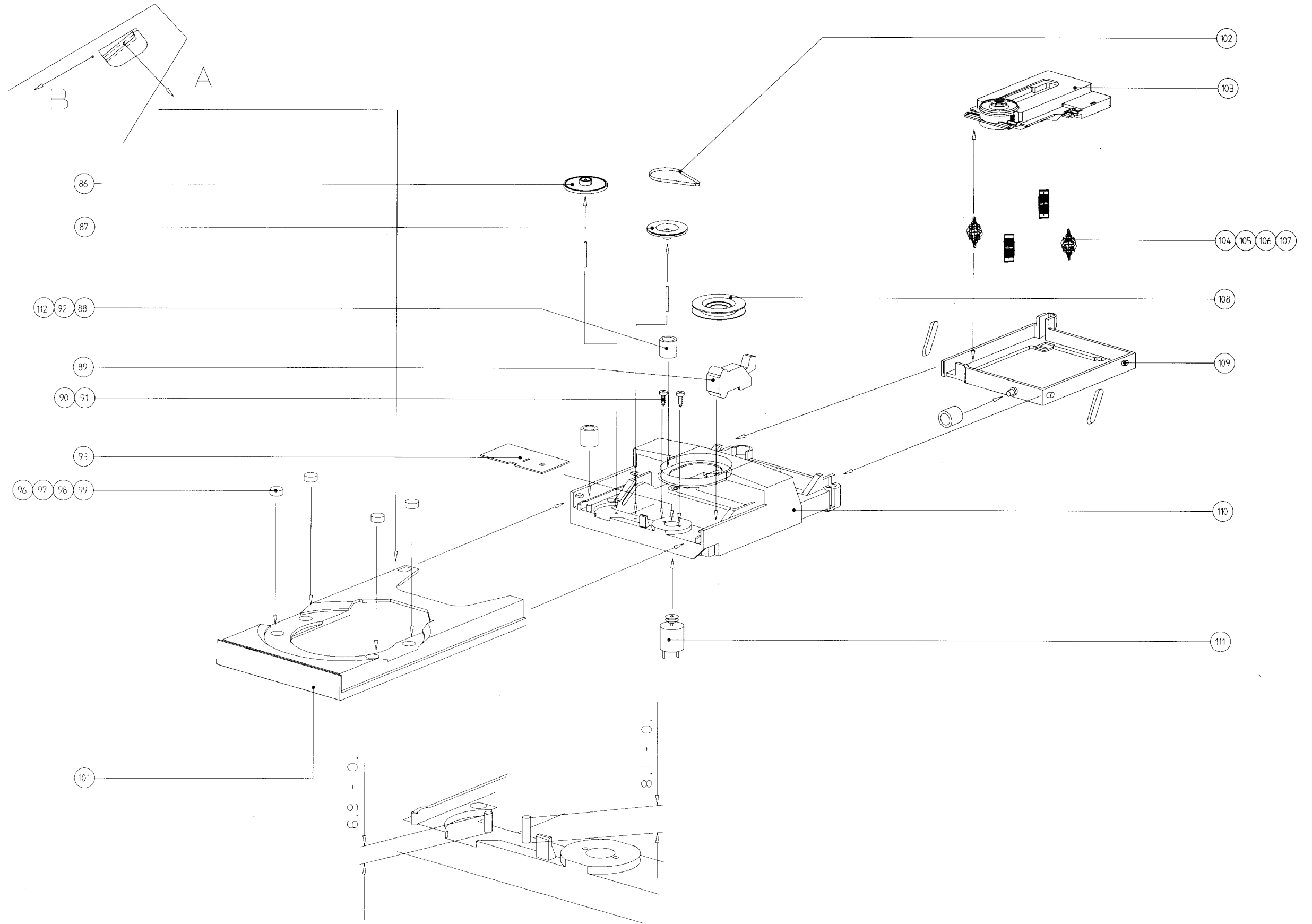
T-23366M

Filter = 13th order filter 4822 395 30204



LOADER

DETAIL I



MECHANICAL PARTSLIST**Partslist cabinet**

1	4822 444 40532	FRONT CD920
1	4822 444 40529	FRONT CD910
15	4822 410 61788	KNOBUNIT(NOSE)
16	4822 410 61789	KNOBUNIT(TEN KEY)
22	4822 450 61843	WINDOW
23	4822 450 61831	IR WINDOW (CD920)
52	4822 535 93291	POWER ROD
53	4822 413 41705	VOLUME KNOB
54	4822 462 71808	POWER BUTTON
71	4822 444 40531	TRAY FRONT
251	4822 462 41888	FOOT
255	4822 462 41887	FELT
283	4822 532 60948	BUSHING
287	5322 256 34085	FUSE HOLDER (/01S)
288	5322 462 44478	FUSE CAP (/01S)
300	4822 321 10809	MAINS FLEX /00S/01S
301	4822 321 10811	MAINS FLEX /05S
302	4822 321 10849	MAINS FLEX /17S
303	4822 321 10828	MAINS FLEX /10S
308	4822 321 22832	CINCH CABLE SBC1072
340	4822 736 21343	INSTRUCTION FOR USE
340	4822 736 21491	INSTRUCTION FOR USE /17S
365	4822 218 10446	RD6835/00 (CD920)

Partslist loading

86	4822 528 81464	DRIVE PINION
87	4822 528 81465	PULLEY
88	4822 325 60379	DAMPING GROMMET
89	4822 276 13222	SWITCH
93	4822 444 60816	COVER PLATE
96	4822 462 41902	ORNAMENTAL TULE
101	4822 444 50679	SLIDE
102	4822 358 31168	BELT
103	4822 691 30278	CDM12
104	4822 325 50215	SUSPENSION
108	4822 402 61412	CLAMPER ASSY
109	4822 464 50895	SUBCHASSIS
110	4822 464 50896	CHASSIS
111	4822 361 21492	MOTOR

The following parts are only available during production period on special request.

151	Cover
181	Frame
189,190	Support bracket
266	Back plate

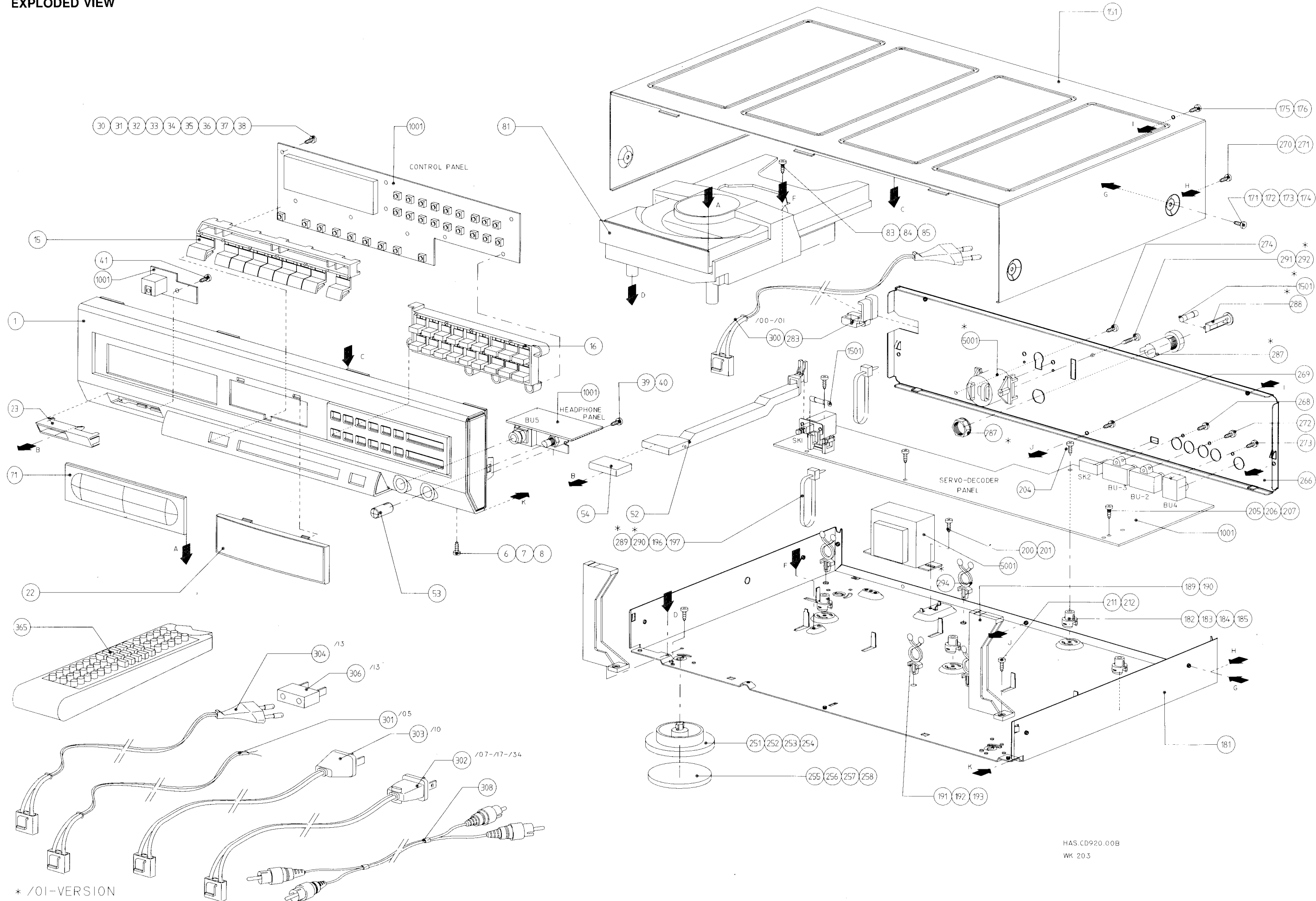
Screws

Taptite	M3x6:	6,7,8 83,84,85 171,172,173,174 175,176 200,201 211,212 269, 270,271,274	Plastite	M3x10:	259,260,261,262 268,272,273
			Plastite	M3x12:	30,31,32,33,34,35,36,37,38 39,40,41
Taptite	M3x16:	204,205,206,207			

EXPLODED VIEW

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* /01-VERSION

HAS.CD920.00B
WK 203

CONTROL & DISPLAY PANEL			DIODES		
MISCELLANEOUS			6400	4822 130 30613	BAW62
1402	4822 256 91876	FTD HOLDER	6401	4822 130 30613	BAW62
1420	4822 242 72527	CRYSTAL 4Mhz	6402	4822 130 30613	BAW62
1421	4822 276 13114	CONTROL SWITCH	6403	4822 130 30613	BAW62
1422	4822 276 13114	CONTROL SWITCH	6404	4822 130 30613	BAW62
1423	4822 276 13114	CONTROL SWITCH	6405	4822 130 30613	BAW62
1425	4822 276 13213	SWITCH	6406	4822 130 30613	BAW62
1426	4822 276 13213	SWITCH	IC		
1427	4822 276 13114	CONTROL SWITCH	7400	4822 209 30249	TMP47C212AN
1428	4822 276 13114	CONTROL SWITCH	HEADPHONE PANEL		
1429	4822 276 13114	CONTROL SWITCH	BU-5	4822 267 31453	HEADPHONE SOCKET
1430	4822 276 13114	CONTROL SWITCH	2370	5322 122 32654	22nF 10% 63V
1431	4822 276 13114	CONTROL SWITCH	3370	4822 102 10398	10k LOG POTMETER
1432	4822 276 13213	SWITCH	3371	4822 050 21003	10k 1% 0,6W
1433	4822 276 13213	SWITCH	3372	4822 050 21003	10k 1% 0,6W
1434	4822 276 13114	CONTROL SWITCH	3373	4822 116 52244	15k 5% 0,5W
1435	4822 276 13114	CONTROL SWITCH	3374	4822 116 52244	15k 5% 0,5W
1436	4822 276 13114	CONTROL SWITCH	3375	4822 050 21201	120Ω 5% 0,6W
1437	4822 276 13114	CONTROL SWITCH	7370	4822 209 82362	NJM4556D
1438	4822 276 13213	SWITCH	IR PANEL		
1439	4822 276 13213	SWITCH	1461	4822 214 51772	IR RECEIVER GP1U521X
1440	4822 276 13213	SWITCH	3460	4822 052 10478	4Ω7 5% 0,33W
1441	4822 276 13114	CONTROL SWITCH	3461	4822 050 24703	47k 1% 0,6W
1442	4822 276 13114	CONTROL SWITCH	MISCELLANEOUS		
1443	4822 276 13114	CONTROL SWITCH	1501	4822 070 31001	FUSE 100mA
1444	4822 276 13114	CONTROL SWITCH	1503	4822 071 51601	FUSE 160mA
1445	4822 276 13213	SWITCH	1504	4822 071 51601	FUSE 160mA
1446	4822 276 13213	SWITCH	5001	4822 146 31063	TRANSFORMER /00S/05S
1450	4822 130 91085	DISPLAY 8-BT-120GK	5001	4822 146 31135	TRANSFORMER /17S
CAPACITORS			5001	4822 146 31154	TRANSFORMER /01S
2402	5322 124 21643	22μF 20% 40V	5002	4822 277 21366	VOLTAGE SELECTOR /01S
2404	5322 124 21643	22μF 20% 40V	5003	4822 462 41505	SELECTOR COVER /01S
RESISTORS					
3400	4822 050 22204	220k 1% 0,6W			
3401	4822 050 22203	22k 1% 0,6W			
3402	4822 050 22203	22k 1% 0,6W			
3403	4822 050 22203	22k 1% 0,6W			
3404	4822 050 22203	22k 1% 0,6W			
3405	4822 052 10478	4Ω7 5% 0,33W			
3406	4822 050 22203	22k 1% 0,6W			
3407	4822 052 10108	1Ω 5% 0,33W			
3408	4822 050 23302	3k3 1% 0,6W			
3409	4822 050 22203	22k 1% 0,6W			

3386	4822 050 21201	120Ω	1%	0,6W	5250	4822 148 80281	HF TRANSFORMER
3501	4822 050 26801	680Ω	1%	0,6W	DIODES		
3550	4822 051 10561	560Ω	2%	0,25W			
3551	4822 050 21002	1k	1%	0,6W	6103	4822 130 30621	1N4148
3552	4822 050 22203	22k	1%	0,6W	6500	5322 130 30684	1N4002
3560	4822 051 20473	47k	5%	0,1W	6501	5322 130 30684	1N4002
3561	4822 116 52224	470Ω	5%	0,5W	6502	5322 130 30684	1N4002
3562	4822 051 20225	2M2	5%	0,1W	6503	5322 130 30684	1N4002
3563	4822 051 20103	10k	5%	0,1W	6504	5322 130 30684	1N4002
3564	4822 051 20333	33k	5%	0,1W	6505	4822 130 34488	BZX79-C11
3565	4822 051 20224	220k	5%	0,1W	6506	4822 130 34167	BZX79-C6V2
3566	4822 051 10102	1k	2%	0,25W	6507	4822 130 34233	BZX79-C5V1
3567	4822 050 22203	22k	1%	0,6W	6550	4822 130 31981	BZX79-C3V9
3568	4822 050 24702	4k7	1%	0,6W	6560	4822 130 30621	1N4148
3610	4822 050 21203	12k	1%	0,6W	6561	4822 130 30621	1N4148
3611	4822 116 52303	8k2	5%	0,5W	6562	5322 130 30684	1N4002
3612	4822 050 21203	12k	1%	0,6W	6563	5322 130 30684	1N4002
3613	4822 050 21203	12k	1%	0,6W	6564	4822 130 30621	1N4148
3614	4822 050 21203	12k	1%	0,6W	6565	4822 130 34278	BZX79-F6V8
3615	4822 052 10108	1Ω	5%	0,33W	6566	4822 130 31981	BZX79-C3V9
3616	4822 052 10108	1Ω	5%	0,33W	TRANSISTORS & IC's		
3617	4822 052 10229	22Ω	5%	0,33W			
3700	4822 051 20224	220k	5%	0,1W	7000	4822 209 31064	TDA1301T/N1
3701	4822 052 10478	4Ω7	5%	0,33W	7042	5322 130 41982	BC848B
3705	4822 051 20103	10k	5%	0,1W	7043	5322 130 41982	BC848B
3706	4822 051 20103	10k	5%	0,1W	7060	4822 209 72587	TCA0372DP2-
3708	4822 050 21003	10k	1%	0,6W	7080	4822 209 72587	TCA0372DP2-
3709	4822 051 20103	10k	5%	0,1W	7101	4822 209 63925	FCB61C65L-70T
3710	4822 051 20103	10k	5%	0,1W	7102	4822 209 30388	SAA7341GP
3711	4822 050 21003	10k	1%	0,6W	7140	5322 130 42012	BC858
3712	4822 050 21003	10k	1%	0,6W	7141	4822 130 61207	BC848
3713	4822 050 21003	10k	1%	0,6W	7300	4822 209 83163	LM833N
3714	4822 050 21003	10k	1%	0,6W	7362	4822 130 61207	BC848
3715	4822 050 21003	10k	1%	0,6W	7363	4822 130 42696	BC818-25
3716	4822 050 21003	10k	1%	0,6W	7364	4822 130 42696	BC818-25
3717	4822 050 21003	10k	1%	0,6W	7371	4822 130 42696	BC818-25
3721	4822 051 20223	22k	5%	0,1W	7372	4822 130 42696	BC818-25
3741	4822 050 24703	47k	1%	0,6W	7500	5322 209 86361	MC7915CT
3742	4822 050 24703	47k	1%	0,6W	7501	4822 209 71579	TY40408
3743	4822 050 24703	47k	1%	0,6W	7550	5322 130 42012	BC858
3744	4822 051 20101	100Ω	5%	0,1W	7560	4822 130 61207	BC848
3745	4822 051 20183	18k	5%	0,1W	7561	5322 130 42012	BC858
3746	4822 052 10109	10Ω	5%	0,33W	7562	5322 130 42012	BC858
3747	4822 050 24703	47k	1%	0,6W	7660	4822 209 72587	TCA0372DP2-
3748	4822 050 24702	4k7	1%	0,6W	7700	4822 209 31063	MC68HC05D9P/MONO P145
3750	4822 050 21002	1k	1%	0,6W	7740	5322 130 42012	BC858
3751	4822 050 22203	22k	1%	0,6W	7741	4822 130 61207	BC848
3752	4822 050 22203	22k	1%	0,6W	7742	5322 130 41982	BC848B
4001	4822 051 10008	0Ω	5%	0,25W	7750	5322 130 42012	BC858
4002	4822 051 10008	0Ω	5%	0,25W			
4003	4822 051 10008	0Ω	5%	0,25W			
4004	4822 051 10008	0Ω	5%	0,25W			
4005	4822 051 10008	0Ω	5%	0,25W			
4006	4822 051 10008	0Ω	5%	0,25W			

Modifications with A92-154

Page	Reason
Frontpage	/01S /17S added
2a	/01S and /17S added
3a	Indications for CD920 added
4a	Warning Class 3B Laser product added
14a	ESI added
15a-16a	Variable headphone also for CD910
19a	Voltage selector added
22a	MP 17 Eyepattern adapted, R3047 added
29a-30a-31a	Variable headphone also for CD910
36a	Warning Class 3B laser product added
40a	Mains flex and I.F.U. for /17S added, fuse holder and cap added
43a	1002, 1570, 1700: name adapted
44a	R3047 added
45a	Microprocessor 7700: ZC400015 changed to MONO P145
46a	5001 Transformer, 5002 voltage selector and 5003 cover added
47	Modifications A92-154 added

Service
Service
Service

Product Service Group CE Audio

Service Information

GB

To adapt the service manual the following sheets have been added/changed.

NL

Voor het aanpassen van de service manual zijn de onderstaande pagina's toegevoegd/gewijzigd.

F

Afin de pouvoir adapter le "manual service" les feuillets suivants ont été soit modifiés, soit ajoutés.

D

Zür anpassung des Service Manual sind die nachstehenden Seiten hinzugefügt/geändert.

I

Le seguenti pagine sono state cambiate/aggiunte allo scopo di adattare il Manuale di Servizio.

Frontpage
2a
3a
4a
14a
15a-16a
19a
22a
29a-30a-31a
36a
40a
43a-44a-45a-46a
47