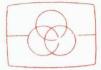
Compact disc player CD380/00R/05R







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Service Manual



CONTENTS

- Contents and Control Buttons
- Technical specifications
- Servicing hints, loading and cabinet parts
- Electrical measurements and adjustments
- Blockdiagram, panel data and partslist of the main
- Control and display, wiring diagram and electrical partslist
- Changes
- Additional information



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



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



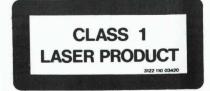
Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Originalzustand des Geräts darf nicht verändert werden für Reparaturen sind Original-Ersatzteile zu verwenden.



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



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.



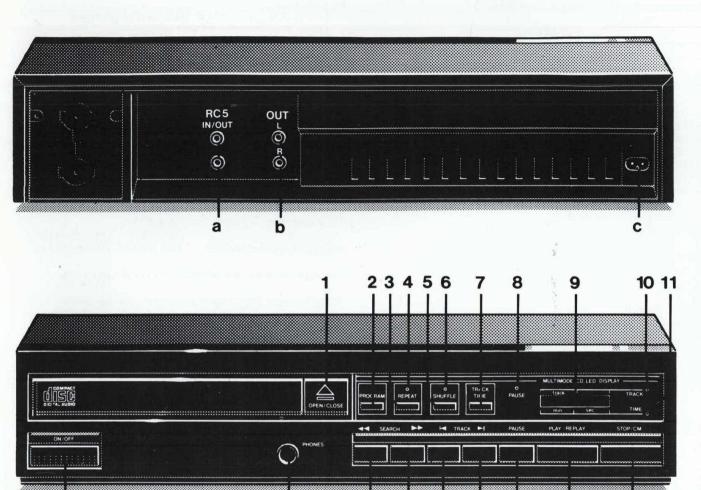
DocumentationTechnique Service Dokumentation Documentazione di Servizio Huolte-Ohje Manual de Servicio Manual de Servicio





Published by Service Consumer Electronics

CONTROL BUTTONS



43 727 A12

18

Front	of	play	ver
10111	٠.	PILL	,

12

75. TO SANDAN 195 VA 125 TA SANDAN TARA	
1 OPEN/CLOSE key	(SK 19)
2 PROGRAM key	(SK 20)
3 REPEAT key	(SK 18)
4 REPEAT LED	(6504)
5 SHUFFLE key	(SK 22)
6 SHUFFLE LED	(6506)
7 TRACK/TIME key	(SK 21)
8 PAUSE LED	(6503)
9 MULTI mode CD LED display	(6501)
10 TRACK LED	(6508)
11 TIME LED	(6505)
12 ON/OFF key	(SK 1)
13 HEADPHONE socket	(BU 3)
14	(SK 15, SK 16)
15 ⋈ TRACK ⋈ keys	(SK 13, SK 14)
16 PAUSE key	(SK 17)
17 PLAY/REPLAY key	SK 11)
18 STOP/CM key	(SK 19)

Rear of player

a b c 14

15

13

RC 5 IN/OUT }	(BU 2)
OUT L/R ∫	(60 2)
Mains lead connection	(BU 1)

16

Digi 2+1-a

TECHNICAL DATA

Typical Audio Performance Dual DAC.

- Number of Channels: 2
- ≩requency Range: 2-20 000 Hz
- Dutput resistance: 200 Ω
- Nominal load impedance: 100 kΩ//100 pF
- Amplitude Linearity: ± 0,1 dB (20-20 000 Hz)
- Phase Linearity: ± 1.0° (20-20 000 Hz)
- Dynamic Range: 90 dB (20-20 000 Hz) Signal-to-Noise Ratio: 96 dB (20-20 000 Hz)
- Channel Separation: 98 dB (20-20 000 Hz)
- Total Harmonic Distortion: 0,003% (20-20 000 Hz)
- Wow and Flutter: quartz crystal precision
- D/A Conversion: quadruple oversampling (176.4 kHz)
- with digital filter and two 16 bit D/A converters - Error Correction System: Cross Interleaved Reed
- Solomon Code (CIRC)
- Audio Output Level: 2 V_{rms} – ≰leadphones load impedance: 32-600 Ω

Optical Readout System

- Laser: semi-conductor AlGaAs
- Wavelength: 780 nm

Signal Format

- Sampling Frequency: 44.1 kHz
- Quantization: 16 bit linear/channel

Power Supply

- Mains Voltage: see type plate at rear of player
- Mains Frequencies: 50 and 60 Hz
- Power Consumption: 15 W approx.
- Safety Requirements: IEC

Cabinet, general

- Dimensions (w \times h \times d): 360 \times 80 \times 300 mm
- Weight: 3.5 kg approx.

Typical Audio Performance DAC4

Signal to noise ratio

typ 95dB

Dynamic range (-60dB)

min 90dB (20Hz-20kHz) typ 86dB (20Hz-20kHz)

min 80dB (20Hz-20kHz)

(0.01%)

typ 0.016%

min 0.05% (20Hz-20kHz)

Intermodulation distortion

Total distortion + noise

max 0.016% (20Hz-20kHz)

The right is reserved to change data if necessary

This Compact Disc player complies with the radio interference requirements as laid down in EEC (European Economic Community) regulations.

(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

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



WARNUNG

Alle ICs und viele andere Halbleiter sind empfindlich gegenüber elektrostatischen Entladungen (ESD).

Unsorgfältige Behandlung im Reparaturfall kan die Lebensdauer drastisch reduzieren. Veranlassen Sie, dass Sie im Reparaturfall über ein Pulsarmband mit Widerstand verbunden sind mit dem gleichen Potential wie die Masse des Gerätes

Bauteile und Hilfsmittel auch auf dieses gleiche

WAARSCHUWING

Alle IC's en vele andere halfgeleiders zijn gevoelig voor electrostatische ontladingen

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.

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

SERVICING HINTS

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

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.

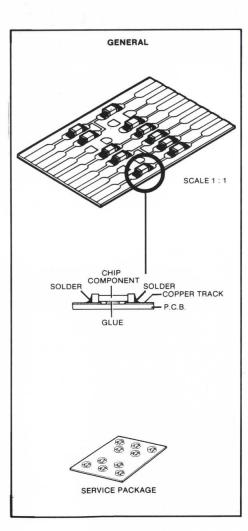
If the tray mechanism has to be disassembled for servicing, a separate disc hold-down should be used. For a service disc hold-down see drawing 42565 A12.

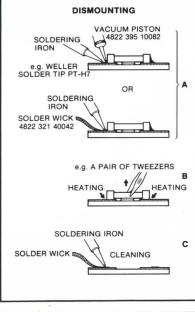
Test discs

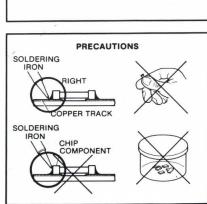
It is important to treat the test discs with great care. The disorders on the discs (black spots, fingerprints, etc.) are exclusive and unambiguously positioned. Damage may cause additional drop-outs etc. rendering the intentional errors no longer exclusive. In that case it will no longer be possible to check e.g. the good working of the track detectors.

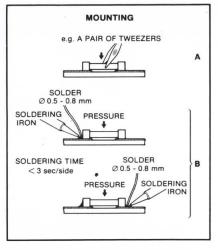
SERVICE TOOLS

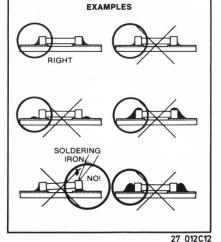
Audio test disc (1) Disc without errors (5)+ disc with DO errors.	4822 397 30185
black spots and fingerprints (5A) Disc 65 min 1kHz	4822 397 30096
without pause	4822 397 30155
Torx screwdrivers	
Set (straight)	4822 395 50145
Set (square)	4822 395 50132
13th order filter	4822 395 30204
Service cable (5p)	4822 321 21273
Service cable (14p)	4822 321 21598
Service flexfoil (14p)	4822 322 40066
Service connector (14p)	4822 267 50676
Glass disc	4822 395 90204



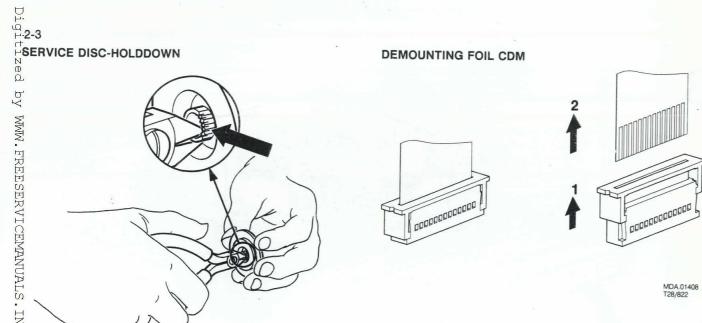






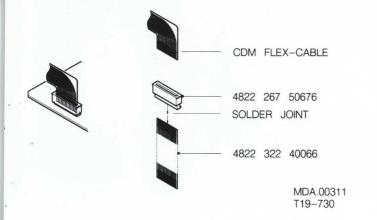


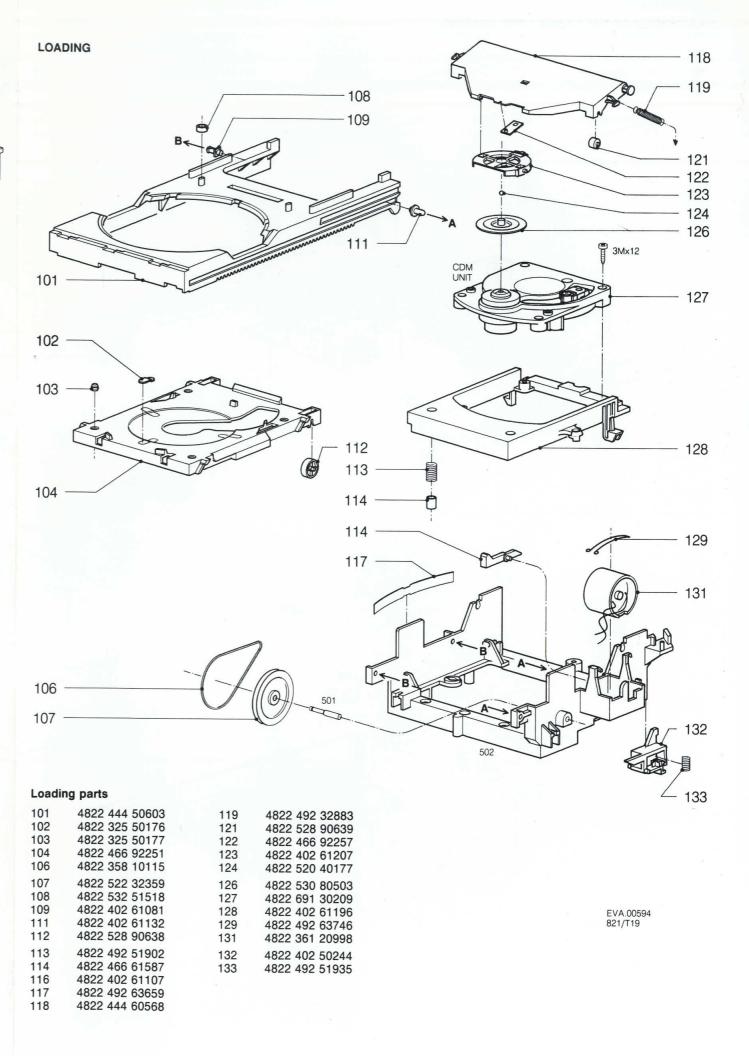
Published in Heiloo, Holland



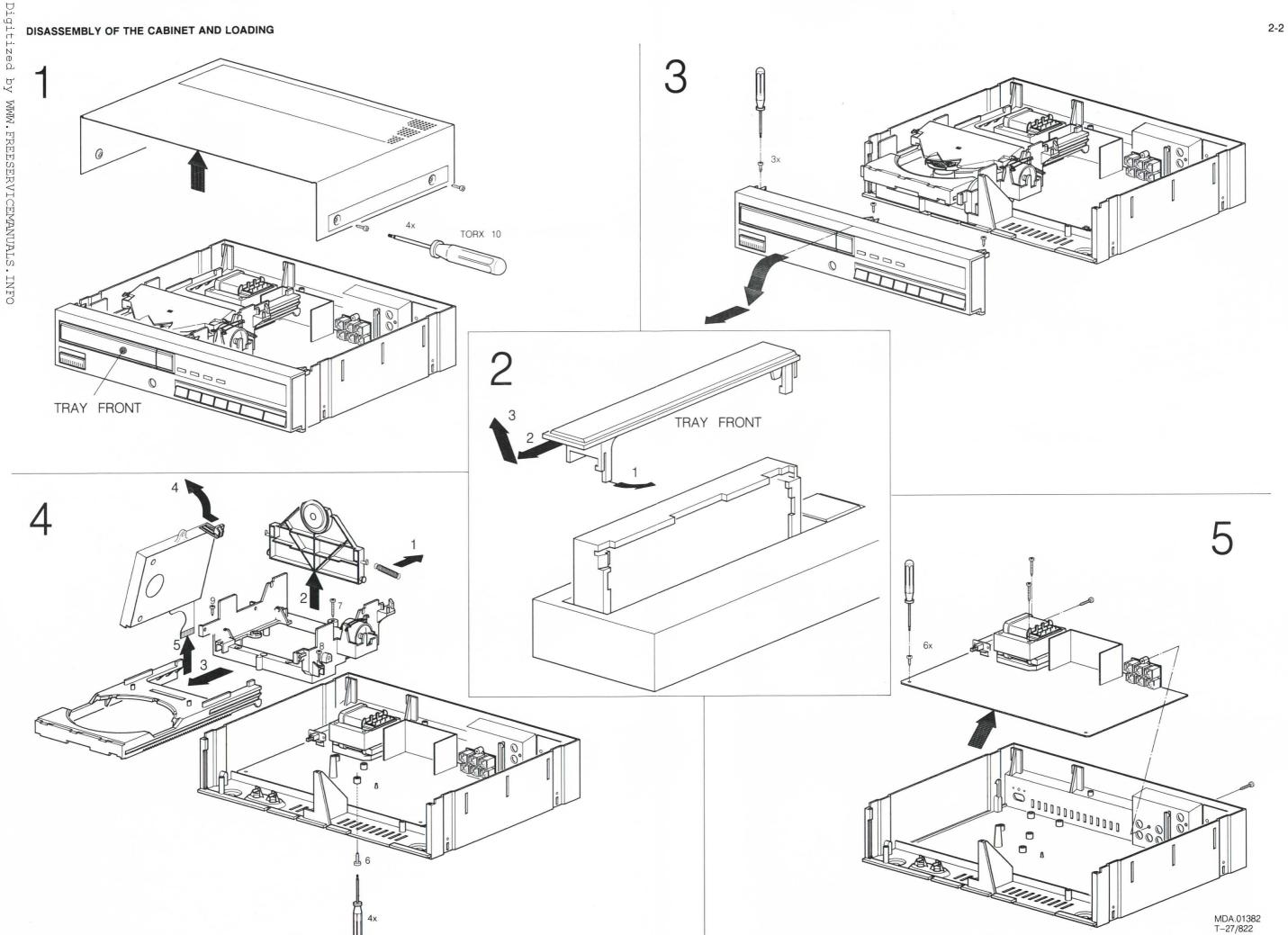
42 565 A12

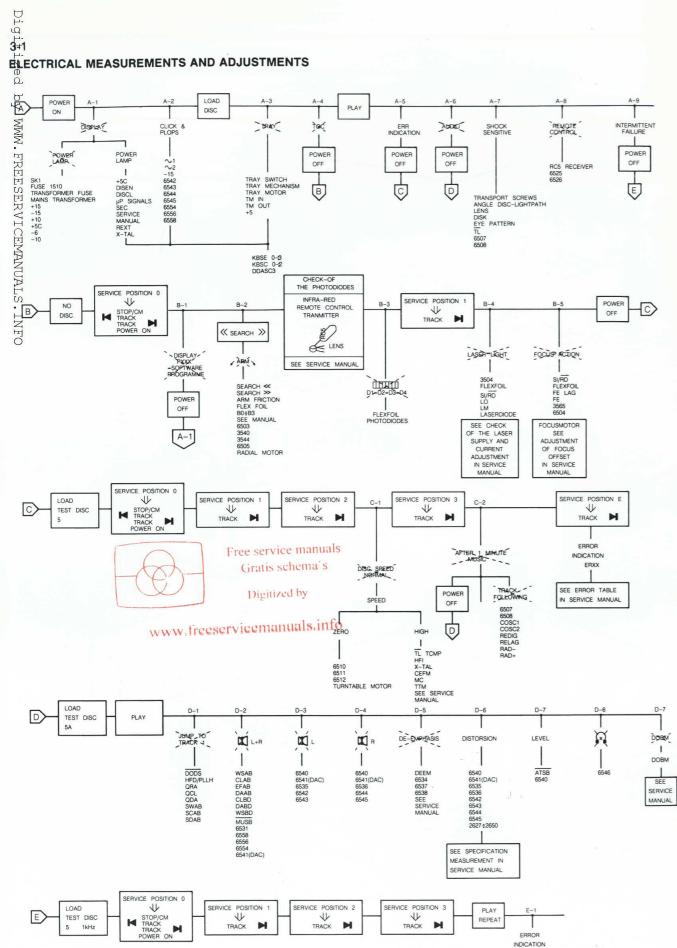
SERVICE CDM FOIL





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PRS.05133 T02/822

SEE ERROR TABLE IN SERVICE MANUAL

0.00	MODE	\Diamond	\bigcirc	REMARKS
SIGNAL	MODE	~	••••	nemana
RESET	POWER ON	100	PULS "HIGH"	
X-TAL	STAND BY	101	4MHz	
TRAY IN	OPEN/CLOSE	83		HIGH WHEN TRAY IS CLOSING
TRAY OUT	OPEN/CLOSE	83A		LOW WHEN TRAY IS OPENING
ATSB	DISC.SEARCH	89	"LOW"	
MUTE	STAND BY.PLAY	67	"HIGH"	

MDA.0138 T-08 823

SIGNAL	MODE	\Diamond			REMARKS
	SERVICE POSITION 1 OR 2 OR 3; SEARCH ≫	36	• •	"HEIGH"	ADJUST FOR OPTICAL MID-POSITION
B0	SERVICE POSITION 1 OR 2 OR 3: SEARCH ≪	36		"HEIGH"	
	SERVICE POSITION 1 OR 2 OR 3: SEARCH ≫	34		"HEIGH"	
B1	SERVICE POSITION 1 OR 2 OR 3: SEARCH ≪	34		"LOW"	
	SERVICE POSITION 1 OR 2 OR 3: SEARCH ≫	33		"HEIGH"	
B2	SERVICE POSITION 1 OR 2 OR 3; SEARCH ≪	33		"HEIGH"	
	SERVICE POSITION 1 OR 2 OR 3: SEARCH ≫	32		"LOW"	
B3	SERVICE POSITION 1 OR 2 OR 3: SEARCH ≪	32		"LOW"	

MDA.01386 T-08 821

STEP	SIGNAL	MODE	\Diamond	₹.			REMARKS
1		POWER ON		_	-	SEE DRAWING 38314A12	SIGNAL DEPENDS ON DISTANCE LENS REMOTE CONTROL

MDA.01378 T-08 824

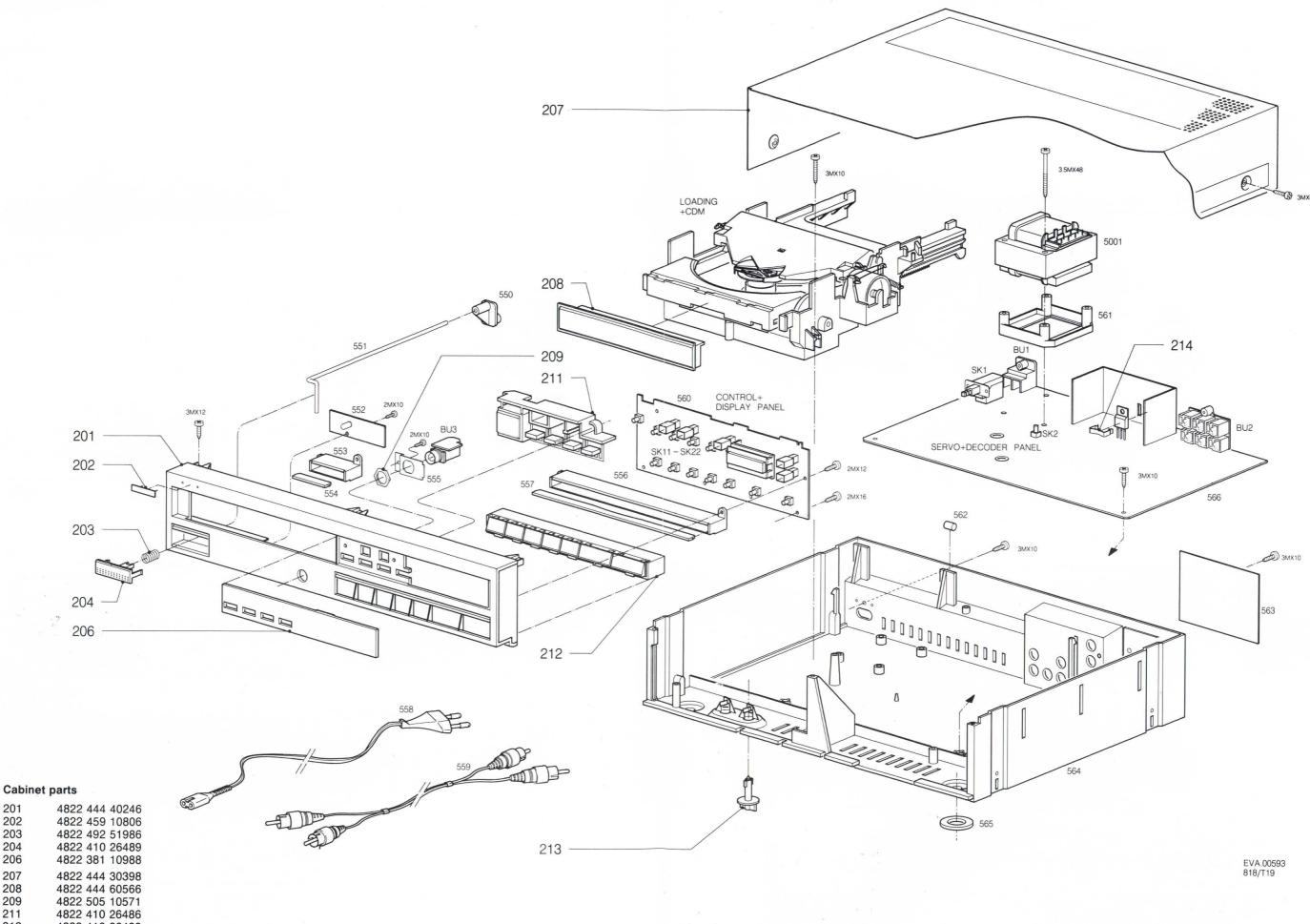
STEP	SIGNAL	MODE	\Diamond	(A)		<u></u>	REMARKS
	LO	SERV. POS. 2	♦ ── ♥ ─┐	-	1.8≪V ≪3	-	Si-1 (2) GREEN to LO GLUS SI-1
	LM	sk Vo-	♦ —♥	-	170 < mV ₹ 20	-	LITTLE LIGHT SK BE 10
2	LO	SERV. POS. 2	♦ ── ♥	-	1.8≪V ◆3	-	Si-1 (2) GREEN to LO
2	LM	sk •••	♦ —♥	_	170 < mV ₹ 20	-	LITTLE LIGHT SK 10 10 10 10 10 10 10 10 10 10 10 10 10
3	LO	POWER ON	♦ —♥¬	_	0V ± 0.2V	-	A K SI=0 (2)

MDA.01379 T-08 824 CABINET

206

213 214

4822 410 26488 4822 417 20162 4822 492 63076

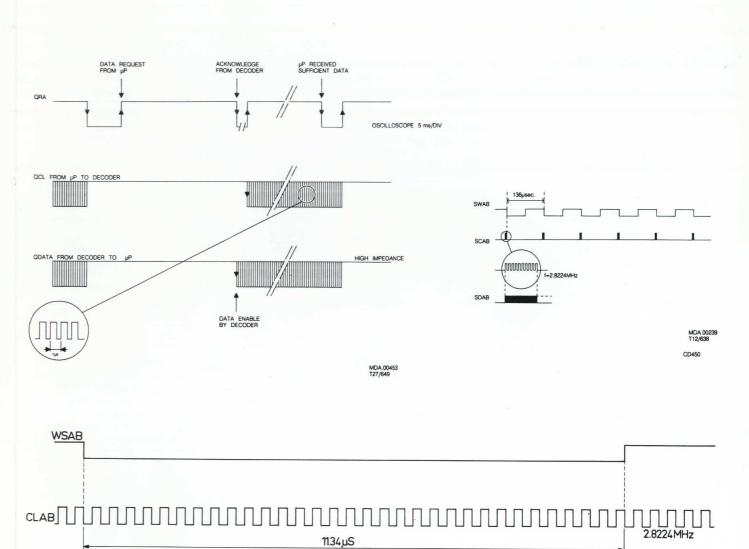


D Signal	MODE	♦			REMARKS
C osc1	TEST DISC 5, PLAY OR SERVICE POSITION 3	30		650Hz	
osc2	TEST DISC 5, PLAY OR SERVICE POSITION 3	31		650Hz	
RE dig	TEST DISC 5, PLAY OR SERVICE POSITION 3	37		PULSES "HIGH"	WHEN THE DISC IS SLOWLY BRAKED BY HAND
RE lag	TEST DISC 5, PLAY OR SERVICE POSITION 3	41	APPROX 2.5V DC		

RV MP TO DODS	TRACK 1					MDA.01387 T-08 823
SIGNAL	MODE		♦			REMARKS
DODS	TEST DISC 5A, SEARCH ≫R SEARCH ≪		19			SEE DRAWING: MDA.01143
HFD/PLLH	TEST DISC 5A: TRACK 15, PLAY		23		PULSES "LOW"	SEE DRAWING: MDA.00240 WHEN THE DISC IS SLOWLY BRAKED BY HAND
F) QRA	TEST DISC 5A, PLAY		75			
QDA	TEST DISC 5A, PLAY	4	77			SEE DRAWING: MDA.00453
QCL	TEST DISC 5A, PLAY	(()	76	Free se]]
SWAB	TEST DISC 5A, PLAY		78	Gratis schema	an _{tialo}	SEE DRAWING: MDA.00239
SCAB	TEST DISC 5A, PLAY	www	freeservic	Digitized by	S	SEE DRAWING: MDA.00239
SDAB	TEST DISC 5A, PLAY		80 VIC	en en		SEE DRAWING: MDA.00239

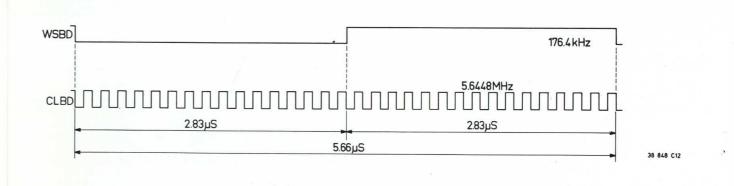
2 O AUDII	O OUTPUT LEFT + RIGHT		saluals.inf	ö	MDA 01 T-08 8
SIGNAL	MODE	♦	\bigcirc	<u></u>	REMARKS
WSAB	DISC, PLAY	71			SEE DRAWING: 38847C12
CLAB	DISC, PLAY	72			SEE DRAWING: 38847C12
DAAB	DISC, PLAY	73		ACTIVITY	SEE DRAWING: 38847C12
EFAB	TEST DISC 5A,	74		PULSES	WHEN THE DISC IS SLOWLY BRAKED BY HAND
CLBD	DISC, PLAY	87			SEE DRAWING: 38848C12
DABD	DISC, PLAY	86		ACTIVITY	SEE DRAWING: 38848C12
WSBD	DISC, PLAY	85			SEE DRAWING: 38848C12
MUSB	DISC, PAUSE, OR NEXT OR PREVIOUS	90		"LOW"	

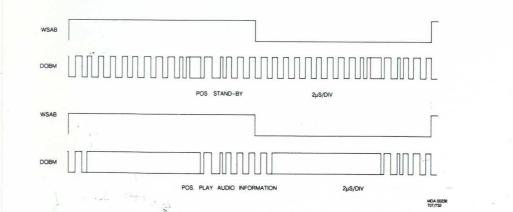
SIGNAL	MODE	\Diamond		REMARKS
UTPUT OF OP-AMP	DISC, PLAY	94	LF SIGNAL	LEFT CHANNEL
UTPUT OF OP-AMP	DISC, PLAY	95	LF SIGNAL	RIGHT CHANNEL



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38 847 C12





B4 LASER CI	JRRE
STEP	
1	
2	Е
3	L

SER CL	JRRENT ADJUSTMEN	IT					
STEP	SIGNAL	MODE	\Diamond	(A)		••••	REMARKS
1	-	POWER OFF	(1)—(20)—[GND	R3520	1kæ	-	PRE-ADJUSTMENT OHMIC VALUE
2	EYE-PATTERN HF	TEST DISC 5	PIN 25 DECODER A (SAA7210)	-	-	SEE DRAWING 37017B8	IF NO SIGNAL SEE: "START UP PROCEDURE"
3	LASER CURRENT	TEST DISC 5 PLAY TRACK 1	♦ —♥— ♦	R3520	50mV DC	_	_

MDA 01380 T-08 823

ADJUSTMENT	OF	FOCUS-OFFSET

DOOGTIVIE	141 01 10000 0	1					
STEP	SIGNAL	MODE	\Diamond	C.		••••	REMARKS
1	-	POWER ON	-	R3569	-	-	ADJUST FOR OPTICAL MID-POSITION
2	FE LAG	PLAY TEST DISC 5 TRACK 1		R3569	400mV ±40mV DC	-	FINE ADJUSTMENT

MDA.01381 T-08 824

B5	
FOCUE	ACTIC

FOCUS A	ACTION	_		
SIGNAL	MODE	\Diamond		REMARKS
SI/RD	SERVICE POSITION 1 WHEN REPEATING START UP PROCEDURE	21	PULS "LOW"	SEE DRAWING: MDA.01403
FE	TEST DISC 5A, SERVICE POSITION 1 WHEN REPEATING START UP PROCEDURE	26		SEE DRAWING: MDA.01413
FE-LAG	TEST DISC 5A.	27		SEE: ADJUSTMENT OF FOCUS-OFFSET

MDA 01384 T-08 823

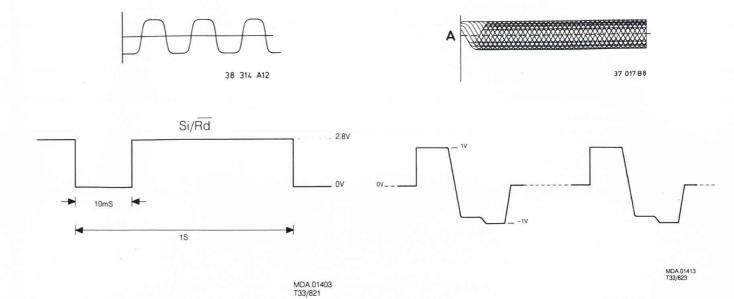
C1 HIGH SPEED DISC ROTATION

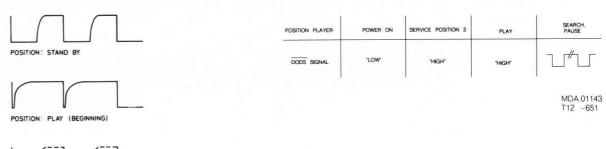
SIGNAL	MODE	♦			REMARKS
TL	TEST DISC 5, PLAY OR SERVICE POSITION 2	13 -		PULSES "LOW"	WHEN THE DISC IS SLOWLY BRAKED BY HAND
ТСМР	TEST DISC 5, PLAY OR SERVICE POSITION 2	14	+5V		AFTER 4 TL PULSES
HFI	TEST DISC 5, PLAY OR SERVICE POSITION 2	65			SEE DRAWING: 37017B8
X-tal	TEST DISC 5A, PLAY OR SERVICE POSITION 2 -	69		11.28MHz	IF THIS FREQUENCY DEVIATES CHECK X-OUT ON FILTER-B
CEFM	TEST DISC 5A, PLAY OR SERVICE POSITION 2	68		4.32MHz	
мс	TEST DISC 5, PLAY OR SERVICE POSITION 2	81			SEE DRAWING: 38849A12
TTM-	TEST DISC 5A, PLAY OR SERVICE POSITION 2	16	APPROX -1V		

MDA 01385 T-08 823

POSITION: PLAY (NORMAL)

38 849 A12







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D5 DEEM CIRCUIT

SIGNAL	MODE	\Diamond			REMARKS
DEEM	TEST DISC 5A: TRACK 14: PLAY TRACK 15: PLAY	84		"LOW"	SEE TESTPOINT 92 AND 91 ON DEEM CIRCUIT
ESTPOINT 92	TEST DISC 5A TRACK 14	92		LF SIGNAL	
ESTPOINT 92	TEST DISC 5A TRACK 15	92	11.70	NO SIGNAL	
ESTPOINT 91	TEST DISC 5A TRACK 14	91	19 17	LF SIGNAL	
ESTPOINT 91	TEST DISC 5A TRACK 15	91		NO SIGNAL	

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MDA 01393 T-08 825

SPECIFICATIONS MEASUREMENT

SIGNAL	MODE	\Diamond		REMARKS
BU2-L	TEST DISC 3, PLAY, TOTAL HARMONIC DISTORSION	FILTER OUTPUT	0.003%	SEE DRAWING: 30459A12
BU2-R	TEST DISC 3, PLAY, TOTAL HARMONIC DISTORSION	FILTER OUTPUT	0.003%	SEE DRAWING: 30459A12
BU2-L	TEST DISC 3, PLAY, SIGNAL-TO-NOISE RATIO	FILTER OUTPUT	96dB	SEE DRAWING: 30459A12
BU2-R	TEST DISC 3, PLAY, SIGNAL-TO-NOISE RATIO	FILTER OUTPUT	96dB	SEE DRAWING: 30459A12

D9

DA.01395 -08 823

DOBM	DIGITAL	OUTPUT

SIGNAL	MODE	\Diamond	,	REMARKS
DOBM	TEST DISC 5A, PLAY	88		SEE DRAWING: MDA.00238

MDA 01391 T-08 823

ERROR TABLE

System errors

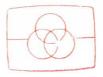
Oysie	ill ellois	
Indi- cation	Cause	Check
Er 01	No RD	Si, Sc, RD, Photodiode signal processor
Er 02	No TL pulse at start-up	TL, HF, Photodiode signal processor, CD disc present
Er 03	No lead-in track found	CD disc, radial arm position, REdig, Radial error processor
Er 04	Too many TL pulses in PLAY	CD disc, HFD
Er 05	$\overline{\text{TL}}$ pulse $>$ 50 msec. in PLAY	CD disc, HF in, photodiodes
Er 06	No TL pulse within 0.5 sec. during track jumping	RE-lag circuit
Er 07	Subcoding error during PLAY	HF
Er 08	TOC error	CD disc, turntable motor

control, radial arm

position

Operating errors

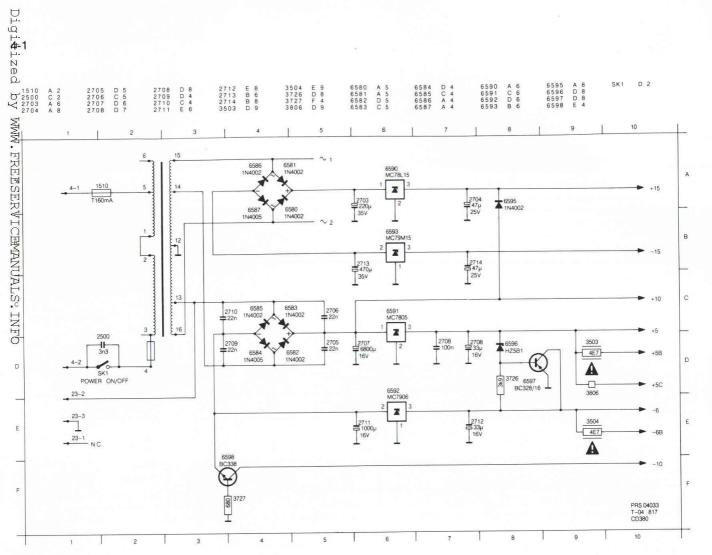
- Er 30 "NEXT" key operated during the last track, with "REPEAT" turned off.
- Er 31 "PREVIOUS" key operated during the first track, with "REPEAT" turned off.
- Er 32 Index selected before a track has been selected.
- Er 33 The selected index number does not exist on this disc.
- Er 34 Programme survey requested; no programme present.
- Er 35 The programme memory is full.
- Er 36 The progammed track is not present on this CD disc.
- Er 37 The selected track is not present on this CD disc.
- Er 60 End of the "FAST FORWARD" search motion.
- Er 61 End of the "FAST REVERSE" search motion.

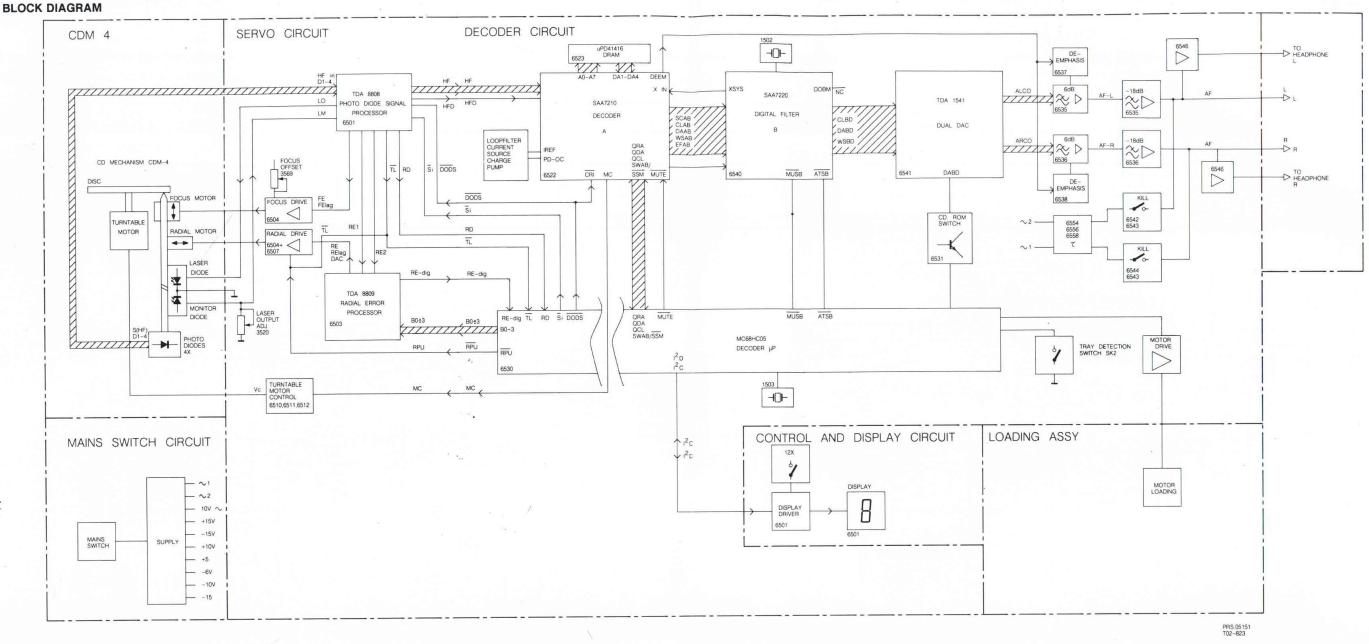


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- Automatic Gain Control AGC - Control bits for radial circuit B0-B3 BEQ Equalizer reference current input - DC and LF gain control reference input **BGC** - Capacitor wobble oscillator Cosc1 - Capacitor wobble oscillator Cosc2 - Decoupling input of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

- output of RE2-RE1 input

currents)

- Radial error signal (Amplified RE2-RE1

PLLH

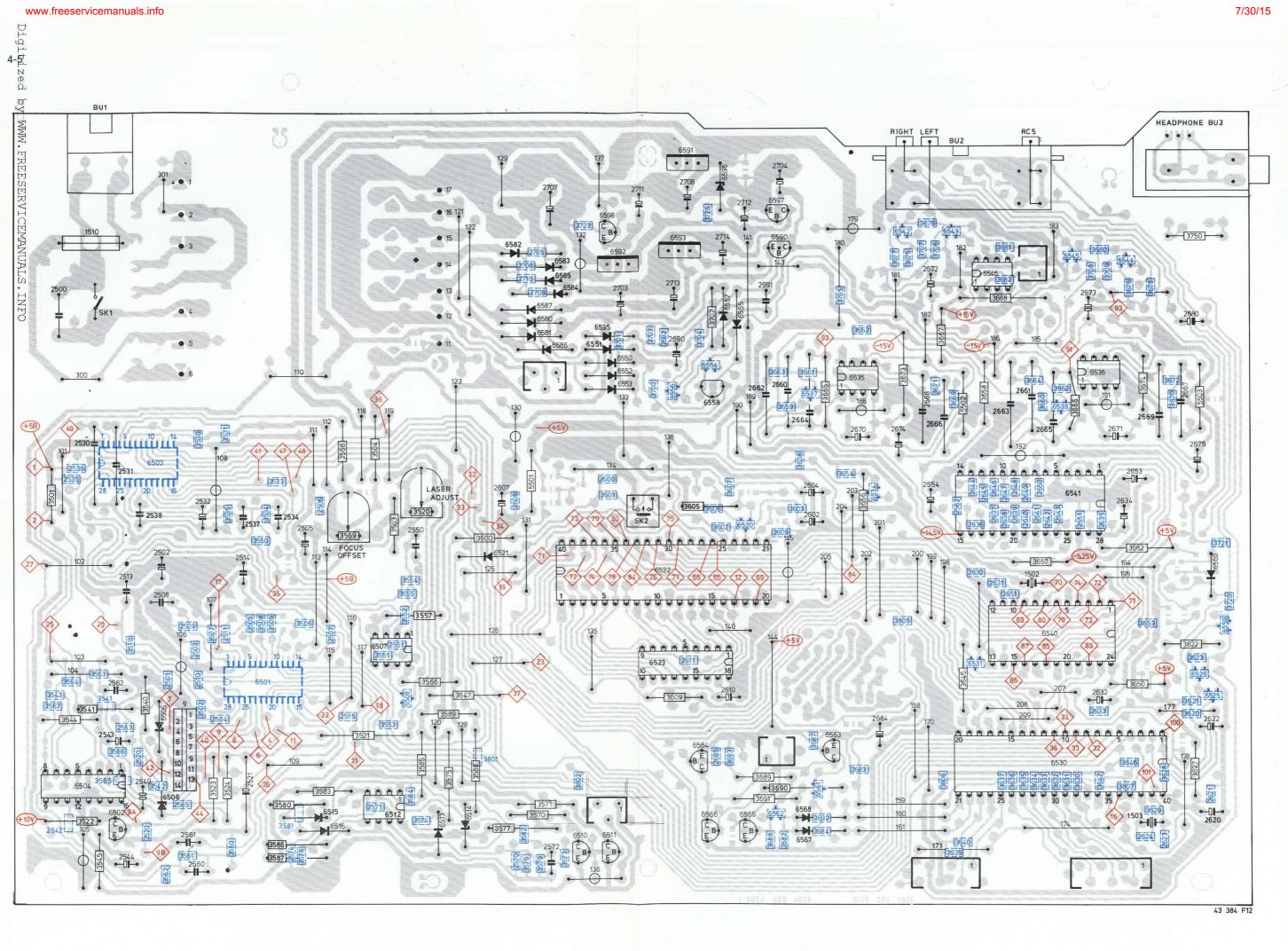
RE

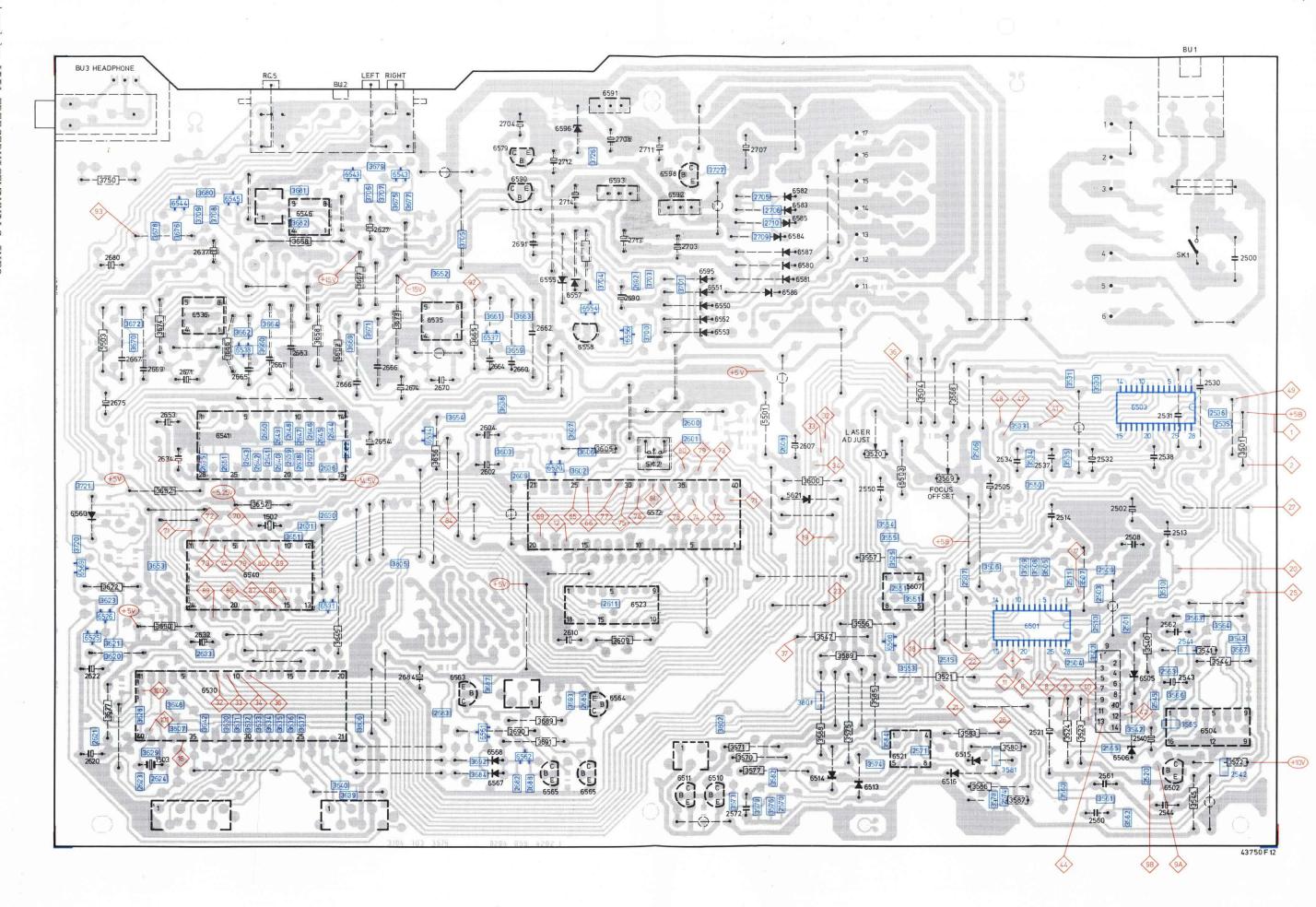
RADout

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

ATSB - Attenuation of Audio level in Search position (Cueing) - Digital Data information on disc signal CD ROM Switch Clock Eight-to-Fourteen Modulator **CEFM** - Clock signal Decoder-A to Filter-B CLAB CLBD Clock signal Filter-B to DAC CREF - Reference Current CRI - Counter Reset Inhibit - Data signal Decoder-A to Filter-B DAAB - Data signal Filter-B to DAC DABD DEEM - Deemphasis DOBM - Digital out signal - Error flag Decoder-A to Filter-B **EFAB** - Mute signal MUTE

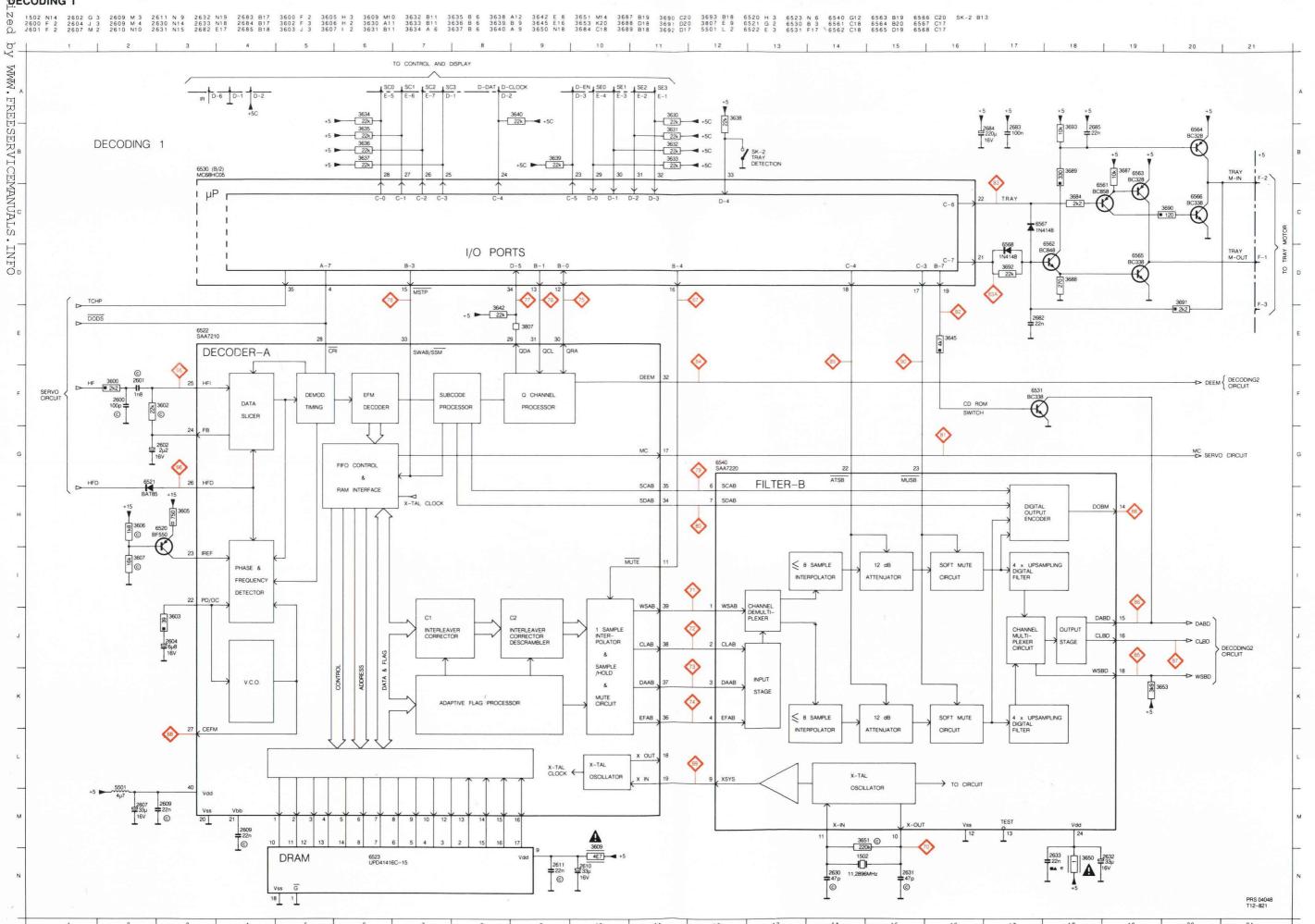
- Soft Mute signal MUSB PD/OC - Phase detector - oscillator control Q-channel Clock signal QCL Q-channel Data signal QDA - Q-channel Request Aknowledge QRA - Subcode clock Decoder-A to Filter-B SCAB Subcode data Decoder-A to Filter-B SDAB Subcode Word/Start-stop motor signal SWAB/SSM Word select Decoder-A to Filter-B WSAB **WSBD** Word Select Filter-B to DAC - Oscillator signal in Decoder-A XIN - Oscillator signal out Filter-B XSYS





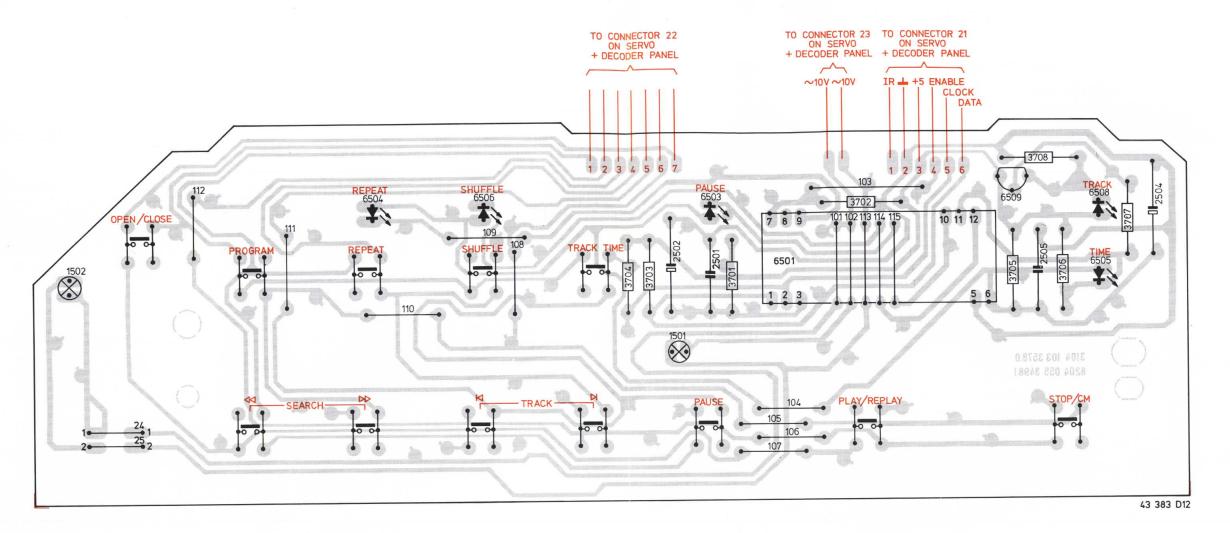
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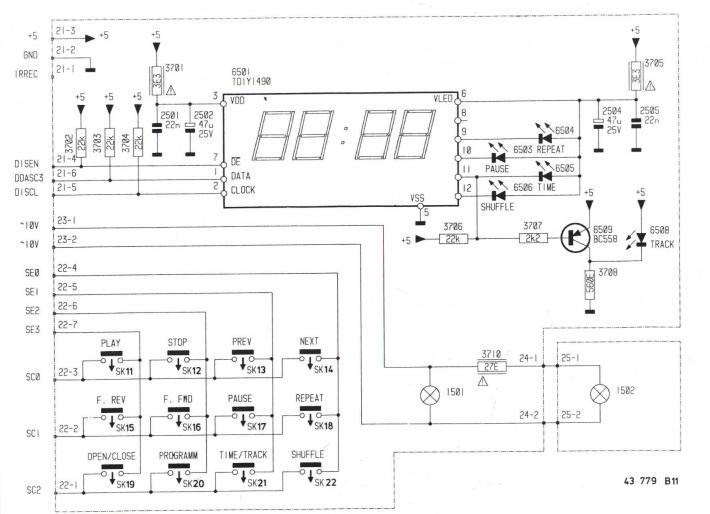
Digi. PECODING 1



ELECTRICAL PARTSLIST SERVO + DECODER PANEL For non active chip components see separate list.

6000000		→ → →	
MC79L09AC MC79M15CT MC7906CT	4822 209 73233 5322 209 86361	1N4002 1N4148	4822 130 30684 4822 130 30621
TY40408 (+5V) MC78M15	4822 209 82056 4822 209 71579 4822 209 80808	HZ7C2/7V2 BA314 HZ3B2	4822 130 32862 4822 130 30879 4822 130 32831
TDA8808T TDA8809T/C2 SAA7210P/04	4822 209 73234 4822 209 73235 4822 209 71001	HZ7A3 BAT85	4822 130 33523 4822 130 31983
μPD41416C-20 SAA7220	4822 209 50582 4822 209 11157	01	
TDA1541A/N2 TDA1543 LM833N NJM4560D	4822 209 72544 4822 209 73236 4822 209 83163 4822 209 83274	CSA4.000 11289.6 kHz	4822 242 70831 4822 242 71644
TCA0372DP2 MC68HC05C8	4822 209 72587 4822 209 73232		
€ € ©		Coil 4.7 mH	4822 157 71644
BC328-16	4822 130 41023		
BC328 BC338 BC558B	4822 130 44104 4822 130 44121 4822 130 44197	Safety resistors	1/3 Watt
BC858 BC848	5322 130 44197 5322 130 42012 5322 130 41981	4E7 12E 18E	4822 116 52858 4822 111 30511 4822 111 31515
BC818 BF550	4822 130 42675 4822 130 42131	100E 120E	4822 116 52389 4822 116 52394
Miscellaneous		220R 330E 750B	4822 116 43221 4822 116 52416
Display	4822 130 90543	750R 1K 1K2	4822 116 52432 4822 116 52391 4822 116 52395
Cinch socket Tackt switch (tray) Mains switch Mains inlet	4822 267 40766 4822 276 11896 4822 276 11309 4822 265 20291	1K8 2K2 4K7	4822 116 53109 4822 116 52408 4822 116 52426
Phone socket Fuse holder Mains transformer	4822 267 30743 4822 256 30274 4822 146 30701	5K6 6K8 10K 22K	4822 116 52438 4822 116 52925 4822 116 52452
⊣⊢		47K 100K 180K	4822 116 52463 4822 116 52472 4822 116 52973 4822 116 52505
330N 4.7M 50V 5M8 50V	5322 121 42661 4822 124 41577 4822 124 41578	Non flameable Resistors	4822 116 52533
16V 17M 25V	4822 124 40272 4822 124 41527	1R	4900 444 00400
100M 25V 220M 16V 220M 35V 470M 35V	4822 124 41528 4822 124 40196 4822 124 41572 4822 124 41573	4R7 10R 33R 1K8	4822 111 30483 4822 111 30499 4822 111 30508 4822 111 30522 4822 116 53109
000M 16V 6800M 16V	4822 124 41571 4822 124 41571	Free se	ervice manuals
Bipolair		4K7 Dig	eitized by 4822 101 10685
0.68M 16V 10M 25V 100M 16V	4822 124 41583 4822 124 41558 4822 124 22339	www.freeservicer	4822 100 20522

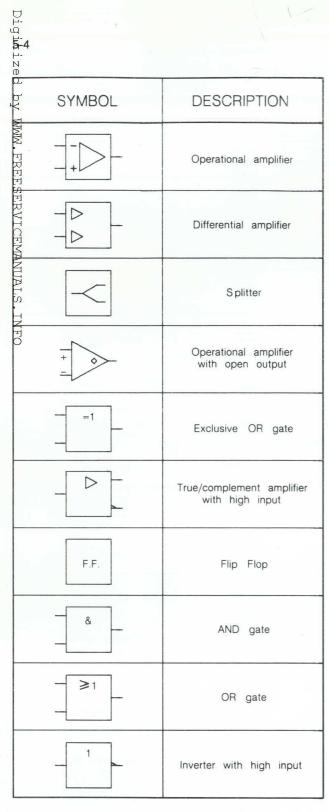


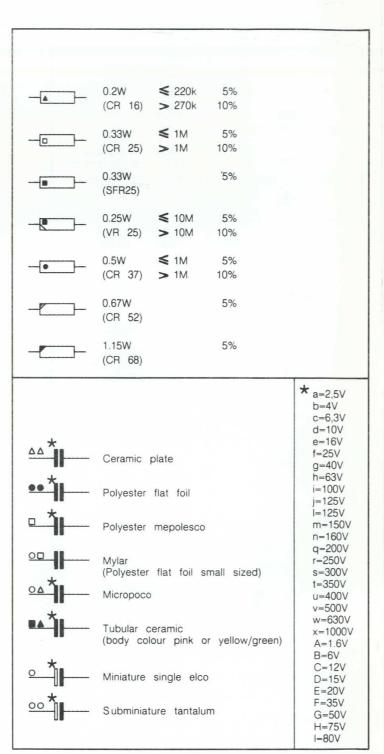


ELECTRICAL PARTS LIST CONTROL AND DISPLAY

⊣⊢				
2501,2505 2502,2504				122 10166 124 22027
€ €	С			
6509	BC558		4822	130 40941
→ →	+			
6503, ₁ 6504	TLHR4499		4822	130 80849
6505, } 6508 }	TLHG4499		4822	130 80848
6506	TLHY4499	1 20	4822	130 80851
	}	*		
3701,3705	Safety Res. 3E3	0,33W 5%	4822	111 30593
3702,3703)	met film 22k	0,5W 5%	4822	116 52463
3704,3706 5 3707 3708	met film 2k2 met film 560E	0,5W 1% 0,5W 5%	4822 4822	116 52408 116 52428

Miscellaneous	
Control switches SK 11 ÷ SK 22 6501 Display TDIY 1490 1066 Mute delay assy 1501, 1502	4822 276 12276 4822 130 90543 4822 214 51719 4822 134 40634





MDA.00084 T32-735

®- II ⊢ 0	Chips 50	V NP0 S1206	©-—	Chips 0,1	125 W S1206	©	Chips 0,1	125 W S1206
1 pF	5%	4822 122 32479	4,7 E	5%	5322 111 90376	6.8 k	2%	4822 111 90544
1,2 pF	5%	4822 122 33013	5,1 E	5%	4822 111 90393	7,5 k	2%	4822 111 90276
1,5 pF	5%	4822 122 31792	5,6 E	5%	4822 111 90394	8,2 k	2%	5322 111 90118
1,8 pF	5%	4822 122 32087	6,2 E	5%	4822 111 90395	9,1 k	2%	4822 111 90373
2,2 pF	5%	4822 122 32425	6,8 E	5%	4822 111 90254	10 k	2%	4822 111 90249
3,3 pF	5%	4822 122 32079	7,5 E	5%	4822 111 90396	11 k	2%	4822 111 90337
3,9 pF	5%	4822 122 32081	8,2 E	5%	4822 111 90397	12 k	2%	4822 111 90253
4,7 pF	5%	4822 122 32082	9,1 E	5%		13 k		
	5%	4822 122 32506	10 E		4822 111 90398		2%	4822 111 90509
5,6 pF		4822 122 32507		2%	5322 111 90095	15 k	2%	4822 111 90196
6,8 pF	5%		11 E	2%	4822 111 90338	16 k	2%	4822 111 90346
8,2 pF	5%	4822 122 32083	12 E	2%	4822 111 90341	18 k	2%	4822 111 90238
10 pF	5%	4822 122 31971	13 E	2%	4822 111 90343	20 k	2%	4822 111 90349
12 pF	5%	4822 122 32139	15 E	2%	4822 111 90344	22 k	2%	4822 111 90251
15 pF	5%	4822 122 32504	16 E	2%	4822 111 90347	24 k	2%	4822 111 90512
18 pF	5%	4822 122 31769	18 E	2%	5322 111 90139	27 k	2%	4822 111 90542
22 pF	10%	4822 122 31837	20 E	2%	4822 111 90352	30 k	2%	4822 111 90216
27 pF	5%	4822 122 31966	22 E	2%	4822 111 90186	33 k	2%	5322 111 90267
33 pF	5%	4822 122 31756	24 E	2%	4822 111 90355	36 k	2%	4822 111 90514
39 pF	5%	4822 122 31972	27 E	2%	5322 111 90105	39 k	2%	5322 111 90108
47 pF	5%	4822 122 31772	30 E	2%	4822 111 90356	43 k	2%	4822 111 90363
56 pF	5%	4822 122 31774	33 E	2%	4822 111 90357	47 k	2%	4822 111 90543
68 pF	5%	4822 122 31961	36 E	2%	4822 111 90359	51 k	2%	5322 111 90274
82 pF	10%	4822 122 31839	39 E	2%	4822 111 90361	56 k	2%	4822 111 90573
00 pF	5%	4822 122 31765	43 E	2%	5322 116 90125	62 k	2%	5322 111 90275
20 pF	5%	4822 122 31766	47 E	2%	4822 111 90217	68 k	2%	4822 111 90202
50 pF	5%	4822 122 31767	51 E	2%	4822 111 90365	75 k	2%	4822 111 90574
80 pF	2%	4822 122 31794	56 E	2%	4822 111 90239	82 k	2%	4822 111 90575
20 pF	5%	4822 122 31965	62 E	2%	4822 111 90367	91 k	2%	5322 111 90277
70 pF	5%	4822 122 32142	68 E	2%	4822 111 90203	100 k	2%	4822 111 90214
30 pF	10%	4822 122 31642	75 E	2%	4822 111 90371	110 k	2%	5322 111 90269
90 pF	5%	4822 122 31771	82 E	2%	4822 111 90124			
70 pF	5%	4822 122 31727	91 E			120 k	2%	4822 111 90568
	5%			2%	4822 111 90375	130 k	2%	4822 111 90511
60 pF		4822 122 31773	100 E	2%	5322 111 90091	150 k	2%	5322 111 90099
80 pF	5%	4822 122 31775	110 E	2%	4822 111 90335	160 k	2%	5322 111 90264
20 pF	5%	4822 122 31974	120 E	2%	4822 111 90339	180 k	2%	4822 111 90565
1 nF	10%	5322 122 31647	130 E	2%	4822 111 90164	200 k	2%	4822 111 90351
1,2 nF	5%	4822 122 31807	150 E	2%	5322 111 90098	220 k	2%	4822 111 90197
1,5 nF	10%	4822 122 31781	160 E	2%	4822 111 90345	240 k	2%	4822 111 90215
1,8 nF	10%	4822 122 32153	180 E	2%	5322 111 90242	270 k	2%	4822 111 90302
2,2 nF	10%	4822 122 31644	200 E	2%	4822 111 90348	300 k	2%	5322 111 90266
2,7 nF	10%	4822 122 31783	220 E	2%	4822 111 90178	330 k	2%	4822 111 90513
3,3 nF	10%	4822 122 31969	240 E	2%	4822 111 90353	360 k	2%	4822 111 90515
3,9 nF	10%	4822 122 32566	270 E	2%	4822 111 90154	390 k	2%	4822 111 90182
1,7 nF	10%	4822 122 31784	300 E	2%	4822 111 90156	430 k	2%	4822 111 90168
6,6 nF	10%	4822 122 31916	330 E	2%	5322 111 90106	470 k	2%	4822 111 90161
6,8 nF	10%	4822 122 31976	360 E	1%	4822 111 90288	510 k	2%	4822 111 90364
10 nF	10%	4822 122 31728	360 E	2%	4822 111 90358	560 k	2%	4822 111 90169
12 nF	10%	5322 122 31648	390 E	2%	5322 111 90138	620 k	2%	4822 111 90213
15 nF	10%	4822 122 31782	430 E	2%	4822 111 90362	680 k	2%	4822 111 90368
18 nF	10%	4822 122 31759	470 E	2%	5322 111 90109	750 k	2%	4822 111 90369
22 nF	10%	4822 122 31797	510 E	2%	4822 111 90245	820 k	2%	4822 111 90205
7 nF	10%	4822 122 32541	560 E	2%				
33 nF	10%	4822 122 31981	620 E	2%	5322 111 90113 4822 111 90366	910 k 1 M	2%	4822 111 90374
7 nF	10%	4822 122 32542	680 E	2%	4822 111 90366		2%	4822 111 90252
66 nF	10%	4822 122 32183	750 E			1,1 M	5%	4822 111 90408
00 nF	10%	4822 122 32183		2%	5322 111 90306	1,2 M	5%	4822 111 90409
00 nF	10%		820 E	2%	4822 111 90171	1,3 M	5%	4822 111 90411
		4822 122 32915	910 E	2%	4822 111 90372	1,5 M	5%	4822 111 90412
0 nF	20%	4822 122 32715	1 k	2%	5322 111 90092	1,6 M	5%	4822 111 90413
<u></u>	Shina 0 10	OF IM CAOOC NIDO	1,1 k	2%	4822 111 90336	1,8 M	5%	4822 111 90414
	nips 0, 12	25 W S1206 NP0	1,2 k	2%	5322 111 90096	2 M	5%	4822 111 90415
0.5	1	1000 111 00100	1,3 k	2%	4822 111 90244	2,2 M	5%	4822 111 90185
0 E		4822 111 90163	1,5 k	2%	4822 111 90151	2,4 M	5%	4822 111 90416
1 E	5%	4822 111 90184	1,6 k	2%	5322 111 90265	2,7 M	5%	4822 111 90417
1 E	5%	4822 111 90377	1,8 k	2%	5322 111 90101	3 M	5%	4822 111 90418
,2 E	5%	4822 111 90378	2 k	2%	4822 111 90165	3,3 M	5%	4822 111 90191
,3 E	5%	4822 111 90379	2,2 k	2%	4822 111 90248	3,6 M	5%	4822 111 90419
,5 E	5%	4822 111 90381	2,4 k	2%	4822 111 90289	3,9 M	5%	4822 111 90421
6 E	5%	4822 111 90382	2,7 k	2%	4822 111 90569	4,3 M	5%	
,8 E	5%	4822 111 90383	3 k	2%				4822 111 90422
2 E	5%	4822 111 90384			4822 111 90198	4,7 M	5%	4822 111 90423
,2 E	5%	5322 111 90104	3,3 k	2%	4822 111 90157	5,1 M	5%	4822 111 90424
,4 E	5%		3,6 k	2%	5322 111 90107	5,6 M	5%	4822 111 90425
		4822 111 90385	3,9 k	2%	4822 111 90571	6,2 M	5%	4822 111 90426
7 E	5%	4822 111 90386	4,3 k	2%	4822 111 90167	6,8 M	5%	4822 111 90235
3 E	5%	4822 111 90387	4,7 k	2%	5322 111 90111	7,5 M	5%	4822 111 90427
3 E	5%	4822 111 90388	5,1 k	2%	5322 111 90268	8,2 M	5%	4822 111 90237
,6 E	5%	4822 111 90389	5,6 k	2%	4822 111 90572	9,1 M	5%	4822 111 90428
	5%	4822 111 90391	6,2 k	2%			5%	
,9 E ,3 E	5%	4822 111 90392	0,2 K	2 /0	4822 111 90545	10M	J 70	5322 111 91141

ELECTRICAL PARTSLIST SERVO + DECODER PANEL (CONTINUED)

For non active chip components see separate stocklist

3302 3305 3306 3336 3360	4 E 7 4 E 7 4 E 7 4 E 7 4 E 7	5% 5% 5% 5%	0,33 W 0,33 W 0,33 W 0,33 W 0,33 W	4822 111 30499 4822 111 30499 4822 111 30499 4822 111 30499 4822 111 30499
3369	1 R	5%	0,33 W	4822 111 30483
3372	4 E 7	5%	0,33 W	4822 111 30499
3374	4 E 7	5%	0,33 W	4822 111 30499
3381	4 E 7	5%	0,33 W	4822 111 30499
3383	4 E 7	5%	0,33 W	4822 111 30499
3384 3385 3388 3389 3390	4 E 7 4 E 7 4 E 7 4 E 7	5% 5% 5% 5%	0,33 W 0,33 W 0,33 W 0,33 W 0,33 W	4822 111 30499 4822 111 30499 4822 111 30499 4822 111 30499 4822 111 30499
3396	1 R	5%	0,33 W	4822 111 30483
3404	10 M	5%	0,5 W	4822 116 52494
3418	22 E	5%	0,33 W	4822 111 30517
3419	22 E	5%	0,33 W	4822 111 30517
3421	47 E	5%	0,33 W	4822 111 30526
3422	11 K	1%	0,6 W	4822 116 52907
3424	150 E	1%	0,6 W	4822 116 52846
3425	47 E	5%	0,33 W	4822 111 30526
3426	11 K	1%	0,6 W	4822 116 52907
3428	150 E	1%	0,6 W	4822 116 52846
3429	47 E	5%	0,33 W	4822 111 30526
3430	11 K	1%	0,6 W	4822 116 52907
3432	150 E	1%	0,6 W	4822 116 52846
3433	47 E	5%	0,33 W	4822 111 30526
3434	11 K	1%	0,6 W	4822 116 52907
3436	150 E	1%	0,6 W	4822 116 52846
3446	4 E 7	5%	0,33 W	4822 111 30499
3447	10 E	5%	0,33 W	4822 111 30508
3448	4 E 7	5%	0,33 W	4822 111 30499
3454	820 E	1%	0,6 W	4822 116 52864
3455	820 E	1%	0,6 W	4822 116 52864
3458	33 E	5%	0,33 W	4822 111 30522
3459	33 E	5%	0,33 W	4822 111 30522
3460	2 K 4	1%	0,6 W	4822 116 52851
3461	2 K 4	1%	0,6 W	4822 116 52851
3462	2 K 4		0,6 W	4822 116 52851
3463	2 K 4		0,6 W	4822 116 52851
3464	33 E		0,33 W	4822 111 30522
3465	33 E		0,33 W	4822 111 30522
3466	620 E		0,5 W	4822 116 52429
3467	4 E 7	5%	0,33 W	4822 111 30499
3476	620 E	5%	0,5 W	4822 116 52429
3477	4 E 7	5%	0,33 W	4822 111 30499
3482	330 R	1%	0,6 W	5322 116 53736
3483	270 E	1%	0,6 W	5322 116 53288
Miscellar	neous			
5001 BU 3 BU 2	Spring cl Mains tra Phone so Cinch so	nsfor		4822 255 40179 4822 146 30701 4822 267 30743
BU 1 SK1 SK2 1510	Mains inl Mains sw Switch Holder fu Fuse	et ⁄itch		4822 265 20291 4822 276 11309 4822 276 11896 4822 256 30274 4822 253 30009

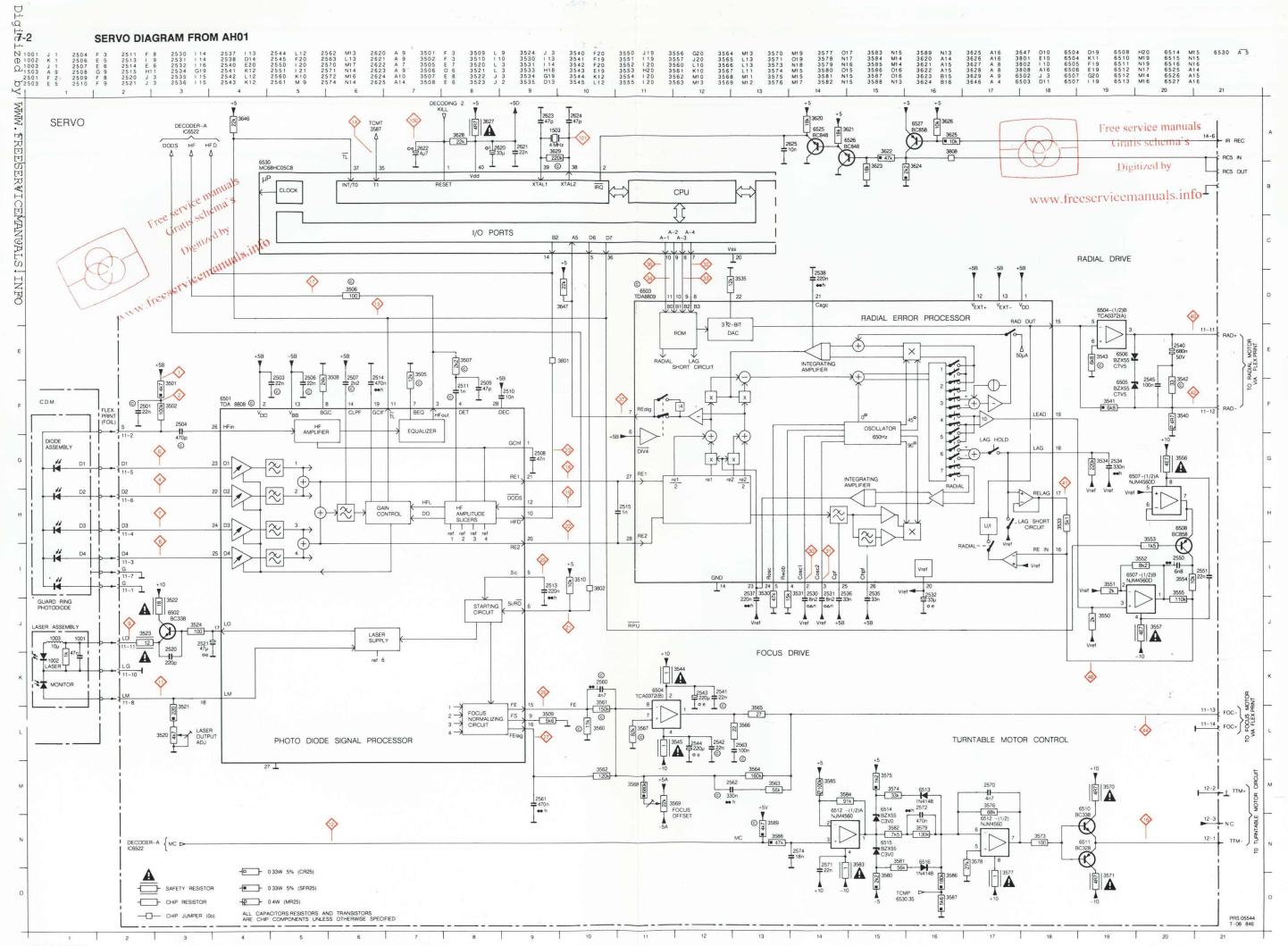
SYMBOL	DESCRIPTION	
+	Capacitor, general	
<u>_</u> +	Electrolytic capacitor (+ and - may be omitted)	
+	Bipolar electrolytic capacitor (+ may be omitted)	
	Resistor, general	
-8	N.T.C. resistor	
-	P.T.C. resistor	
	Voltage divider with preset adjustment	
	Chip jumper	
-	Pin contact	
)—	Bus contact	
	Coil, self-induction	
}! { }	Transformer with electrically poor conducting core and adjustable pre-magnetization	
	Diode	
->-	Zener diode	
	Stabistor	
	Double variable capacity diode (in one envelope)	
—	Photo conductive diode	
"	L.E.D.	

SYMBOL	DESCRIPTION		
	Transistor (N.P.N.)		
-	Transistor (P.N.P.)		
===	Direct current (DC)		
\sim	Alternating current (AC)		
<u></u>	Earth (functional)		
	Frame or chassis connection		
\rightarrow	Direction in which AC voltages are passed on (optional present)		
>	Interrupted line		
+	Not-connected crossing lines		
	Connected lines		
ا ر ا	Cable tree with lead-outs		
	Changer, general (arrow is optional)		
G VCO	Voltage Controlled Oscillator		
255	Band-pass filter		
φ	Phase changing network		
ns	Delay element		
	Amplifier, general		

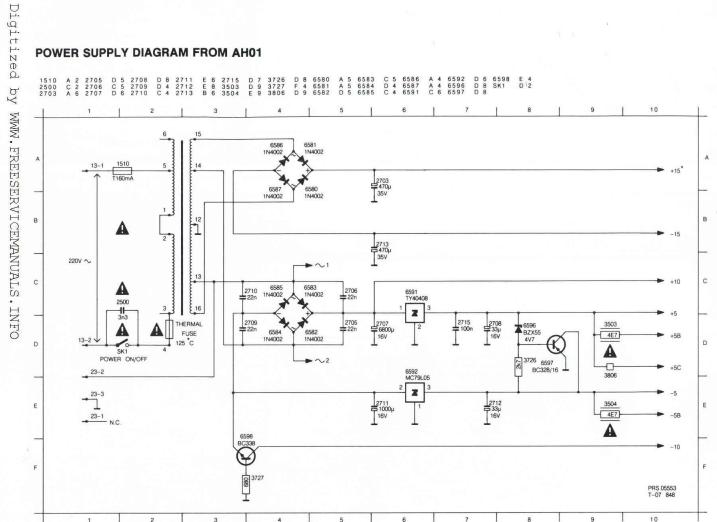
MDA.00083 T32-735

Changes	
Changes introduced with A88-255 from already published: none	marking AH01
Description	Reasons
Pront page 2-1-a	Contents adapted Audio test disc (3) no longer available, replaced by audio test disc (1)
7-1 to 7-6	Diagrams and drawings of the panel of the DAC4 version added
	Free service manuals Gratis schema's

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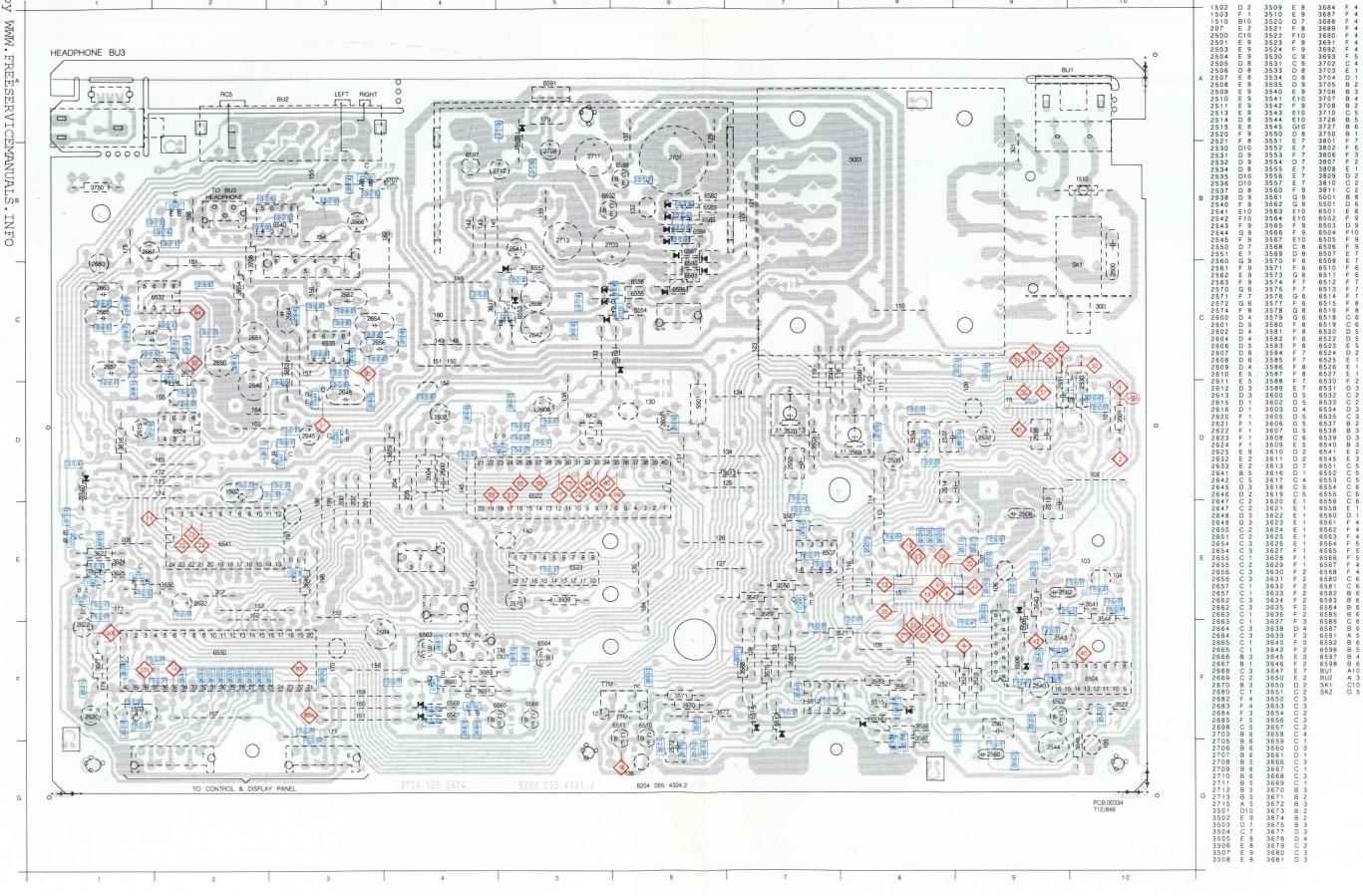
POWER SUPPLY DIAGRAM FROM AH01



Partslist

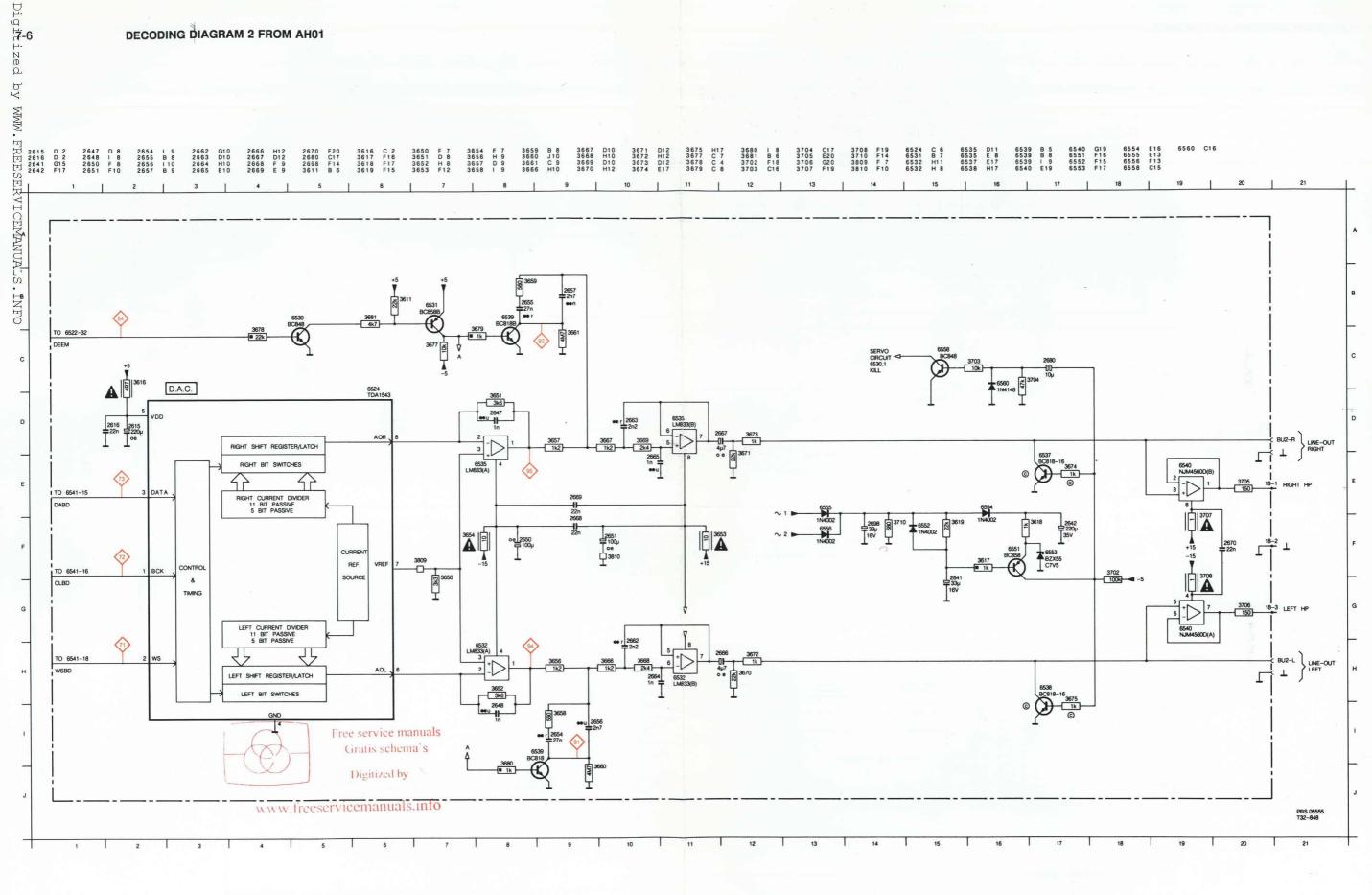
TDA 1543 (DAC4) 4822 209 73236 Transformer (DAC4) 4822 146 30707

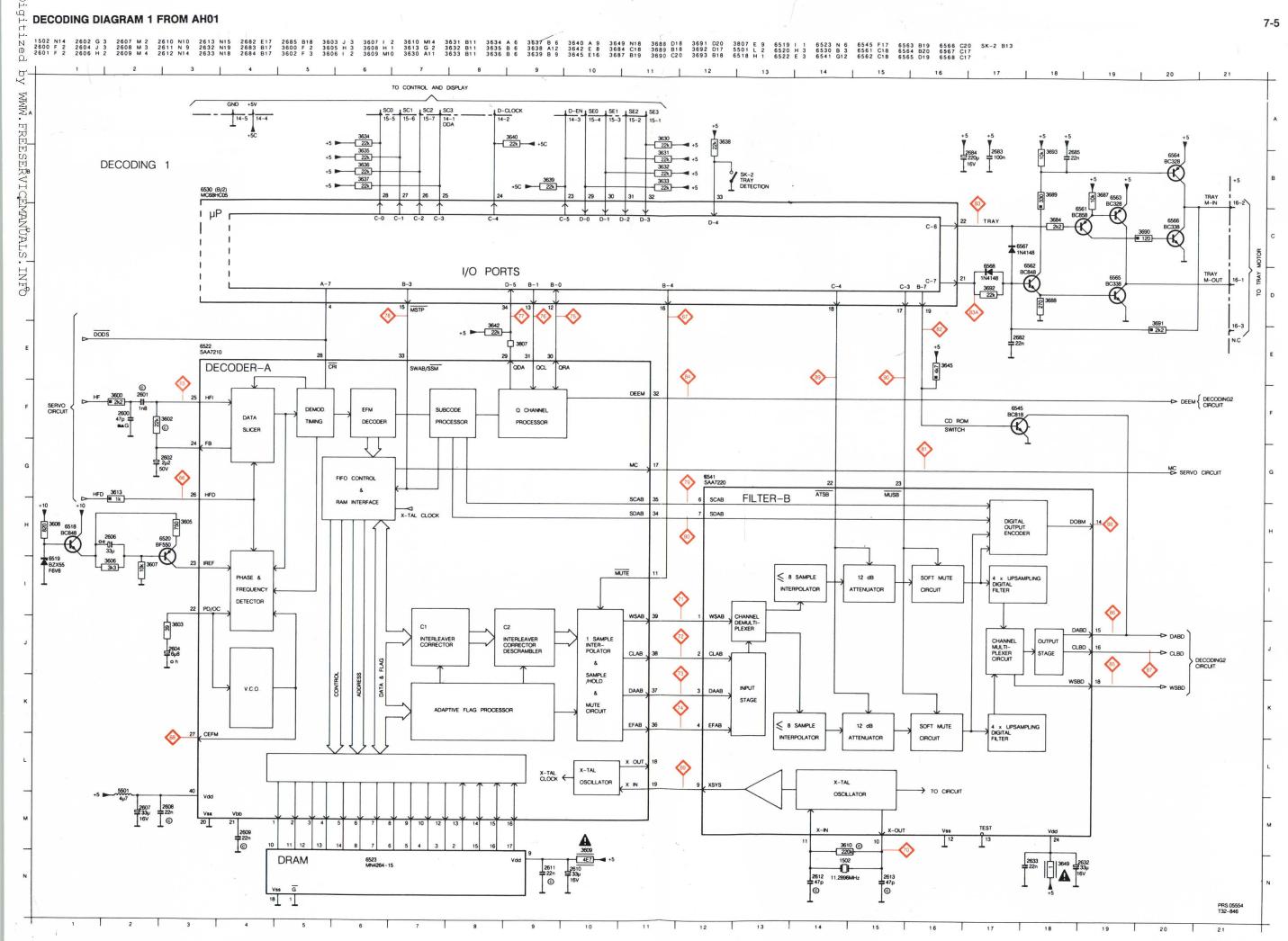
Digital Servo & DECODER PANEL FROM AH01 Sed by 1 2 3



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DECODING DIAGRAM 2 FROM AH01





7/30/15

Service Information

1988-12-01
CD380
A88-255

Product Service Group CE Audio

GB

To adapt the Service Manual the following sheets have been changed/added.



Voor het aanpassen van de Service Manual zijn onderstaande pagina's gewijzigd/toegevoegd.



Affin de pouvoir adapter le Manual Service les feuillets suivants ont été soit modifiés, soit ajoutés.



Zur Anpassung des Service Manual sind nachstehende Seiten geändert/hinzugefügt.

1

Allo scope di adattare il manuale di Servizio sono state variate/aggiunte le sequenti pagine.

Change sheets/Wijzigingsbladen/Feuillets de modification/Aenderungsblätter.

Front page 2-1-a

Supplementary sheets/Toevoegingsbladen/Feuillets d'adjonction/Zusatzblätter

6-1

7-1

7-2

7-3

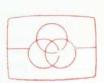
7-5

7-6



1-1-a

Service

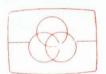


Free service r Gratis sche

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Service Manual



Free service manuals Gratis schema's

Digitized by



CONTENTS

www.freeservicemanuals.info

- 1 Contents and Control Buttons
- Technical specifications
- Servicing hints, loading and cabinet parts
- Electrical measurements and adjustments
- Blockdiagram, panel data and partslist of the main
- Control and display, wiring diagram and electrical partslist
- Changes
- 7 Additional information

Safety regulations require that the set be restored to its original

condition and that parts which are identical with those specified be

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

> 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

> > Subject to modification 4822 725 22066 Printed in The Netherlands [©]Copyright reserved



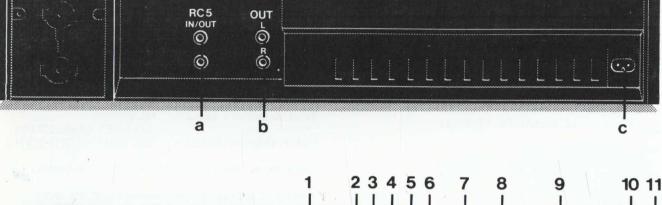
Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Originalzustand des Geräts darf nicht verändert werden für Reparaturen sind Original-Ersatzteile zu verwenden.



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







12 13 15 14 16 17 43 727 A12

Front of player

1 OPEN/CLOSE key (SK 19) 2 PROGRAM key (SK 20) 3 REPEAT key (SK 18) 4 REPEAT LED (6504)5 SHUFFLE key (SK 22) 6 SHUFFLE LED (6506) 7 TRACK/TIME key (SK 21) 8 PAUSE LED (6503)9 MULTI mode CD LED display (6501) 10 TRACK LED (6508)11 TIME LED (6505)12 ON/OFF key (SK 1) 13 HEADPHONE socket (BU 3) (SK 15, SK 16) 15 ⋈ TRACK ⋈ keys (SK 13, SK 14) 16 PAUSE key (SK 17) 17 PLAY/REPLAY kev SK 11) 18 STOP/CM key (SK 19)

Rear of player

a RC 5 IN/OUT b OUT L/R c Mains lead connection

(BU 1)

(BU 2)

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

2-1-a

TECHNICAL DATA

Typical Audio Performance Dual DAC.

- Number of Channels: 2
- ≢requency Range: 2-20 000 Hz
- Output resistance: 200 Ω
- \pm lominal load impedance: 100 k Ω //100 pF
- Amplitude Linearity: ± 0,1 dB (20-20 000 Hz) Phase Linearity: ± 1.0° (20-20 000 Hz)
- Dynamic Range: 90 dB (20-20 000 Hz)
- Signal-to-Noise Ratio: 96 dB (20-20 000 Hz)
- Channel Separation: 98 dB (20-20 000 Hz)
- Total Harmonic Distortion: 0,003% (20-20 000 Hz) - Now and Flutter: quartz crystal precision
- D/A Conversion: quadruple oversampling (176.4 kHz)
- with digital filter and two 16 bit D/A converters - Error Correction System: Cross Interleaved Reed
- Solomon Code (CIRC)
- Audio Output Level: 2 V_{rms.}
 Headphones load impedance: 32-600 Ω

Optical Readout System

- Laser: semi-conductor AlGaAs
- Wavelength: 780 nm

Signal Format

- Sampling Frequency: 44.1 kHz
- Quantization: 16 bit linear/channel

Power Supply

- Mains Voltage: see type plate at rear of player
- Mains Frequencies: 50 and 60 Hz
- Power Consumption: 15 W approx.
- Safety Requirements: IEC

Cabinet, general

- Dimensions (w \times h \times d): 360 \times 80 \times 300 mm
- Weight: 3.5 kg approx.

Typical Audio Performance DAC4

Signal to noise ratio

typ 95dB min 90dB (20Hz-20kHz)

Dynamic range (-60dB)

typ 86dB (20Hz-20kHz) min 80dB (20Hz-20kHz)

(0.01%)typ 0.016%

Total distortion + noise

min 0.05% (20Hz-20kHz)

Intermodulation distortion

max 0.016% (20Hz-20kHz)

The right is reserved to change data if necessary

This Compact Disc player complies with the radio interference requirements as laid down in EEC (European Economic Community) regulations.

(GB) WARNING

All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life

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



(D) WARNUNG

Alle ICs und viele andere Halbleiter sind empfindlich gegenüber elektrostatischen Entladungen (ESD).

Unsorgfältige Behandlung im Reparaturfall kan die Lebensdauer drastisch reduzieren. Veranlassen Sie, dass Sie im Reparaturfall über ein Pulsarmband mit Widerstand verbunden sind mit dem gleichen Potential wie die Masse

Bauteile und Hilfsmittel auch auf dieses gleiche Potential halten.

WAARSCHUWING

Alle IC's en vele andere halfgeleiders zijn gevoelig voor electrostatische ontladingen (FSD).

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.

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.

SERVICING HINTS

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

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.

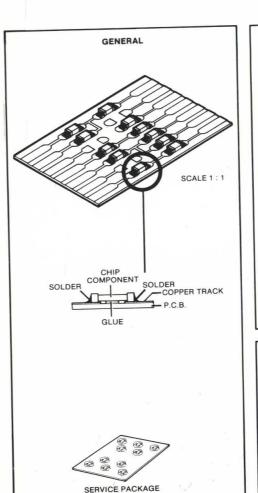
If the tray mechanism has to be disassembled for servicing, a separate disc hold-down should be used. For a service disc hold-down see drawing 42565 A12.

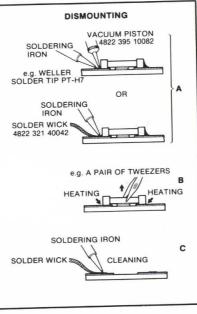
Test discs

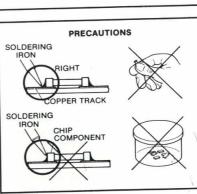
It is important to treat the test discs with great care. The disorders on the discs (black spots, fingerprints, etc.) are exclusive and unambiguously positioned. Damage may cause additional drop-outs etc. rendering the intentional errors no longer exclusive. In that case it will no longer be possible to check e.g. the good working of the track detectors.

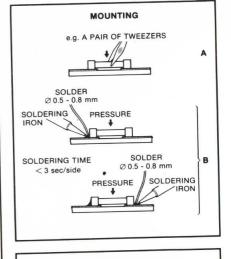
SERVICE TOOLS

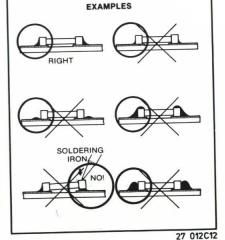
Audio test disc (1)	4822 397 30185
Disc without errors (5)+	
disc with DO errors, black spots and fingerprints (5A)	4822 397 30096
Disc 65 min 1kHz without pause	4822 397 30155
Torx screwdrivers Set (straight)	4822 395 50145 4822 395 50132
Set (square) 13th order filter	4822 395 30204 4822 321 21273
Service cable (5p) Service cable (14p)	4822 321 21598 4822 322 40066
Service flexfoil (14p) Service connector (14p)	4822 267 50676
Glass disc	4822 395 90204









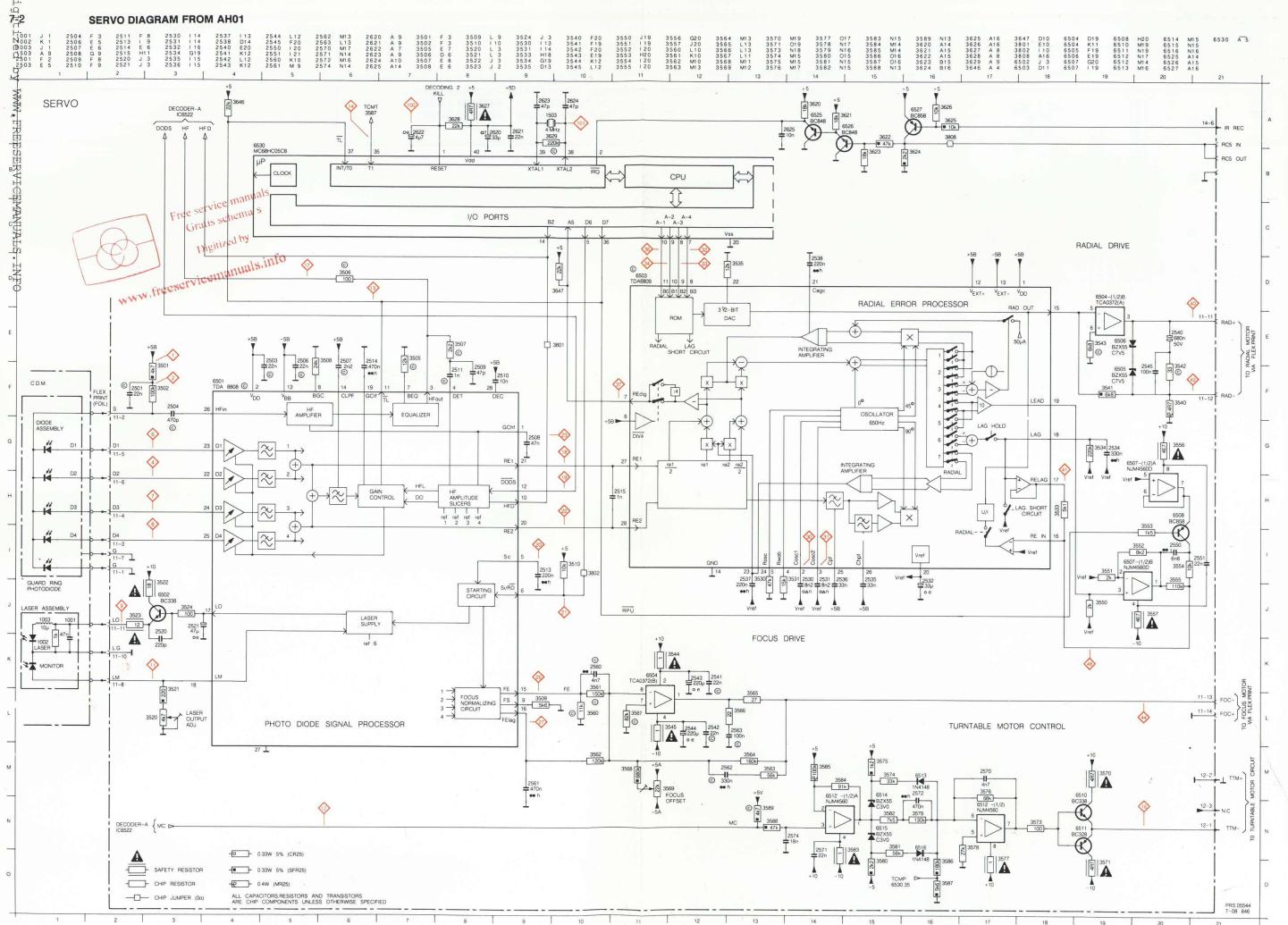


Changes		

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Changes introduced with A88-255 from marking AH01 already published: none

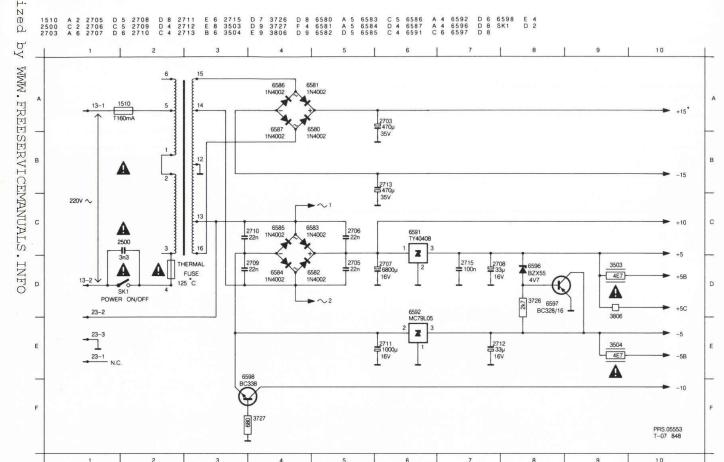
Description	Reasons
Front page 2-1-a	Contents adapted Audio test disc (3) no longer available, replaced by audio test disc (1)
7-1 to 7-6	Diagrams and drawings of the panel of the DAC4 version added



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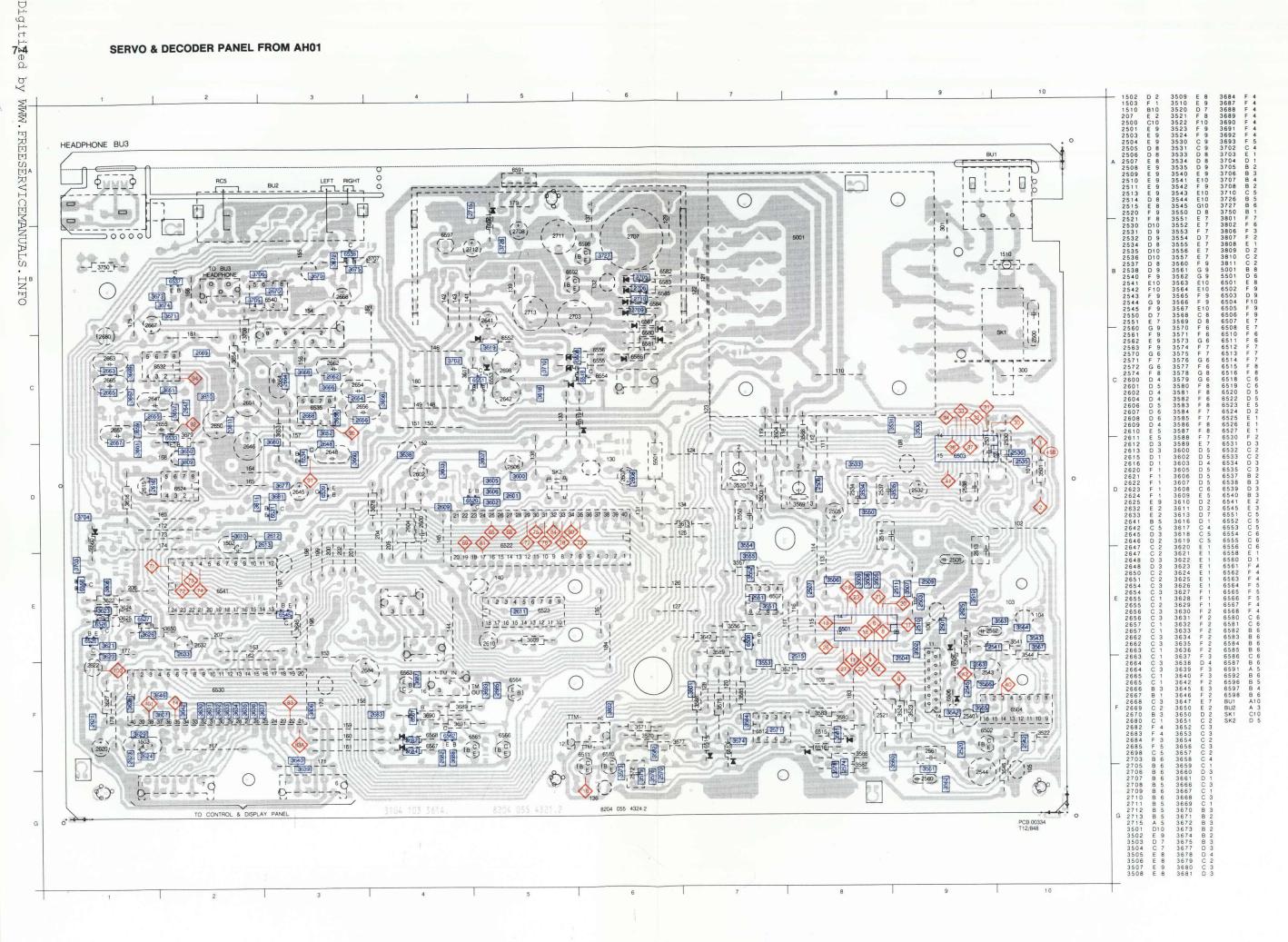
Digit **POWER SUPPLY DIAGRAM FROM AH01**



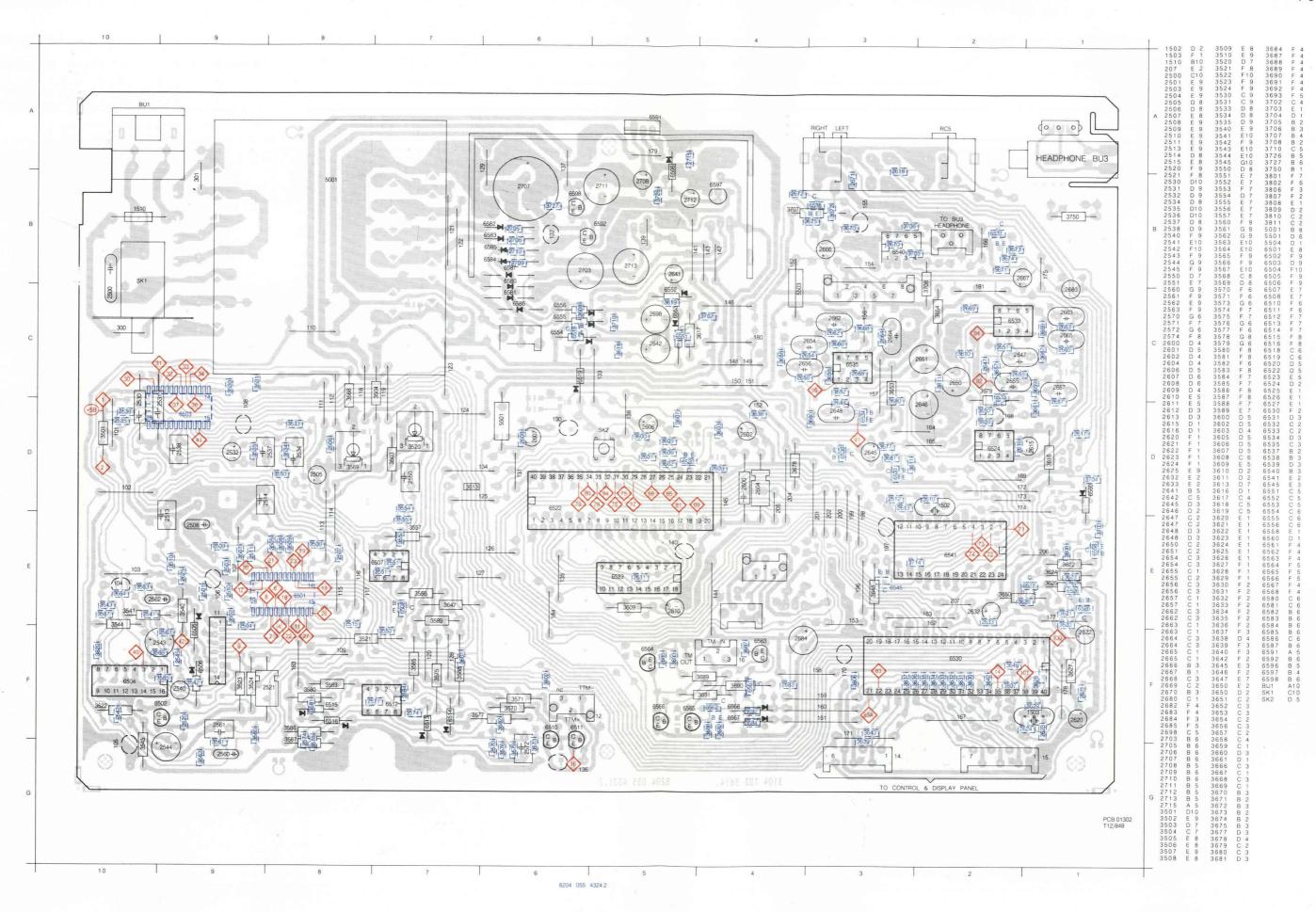
Partslist

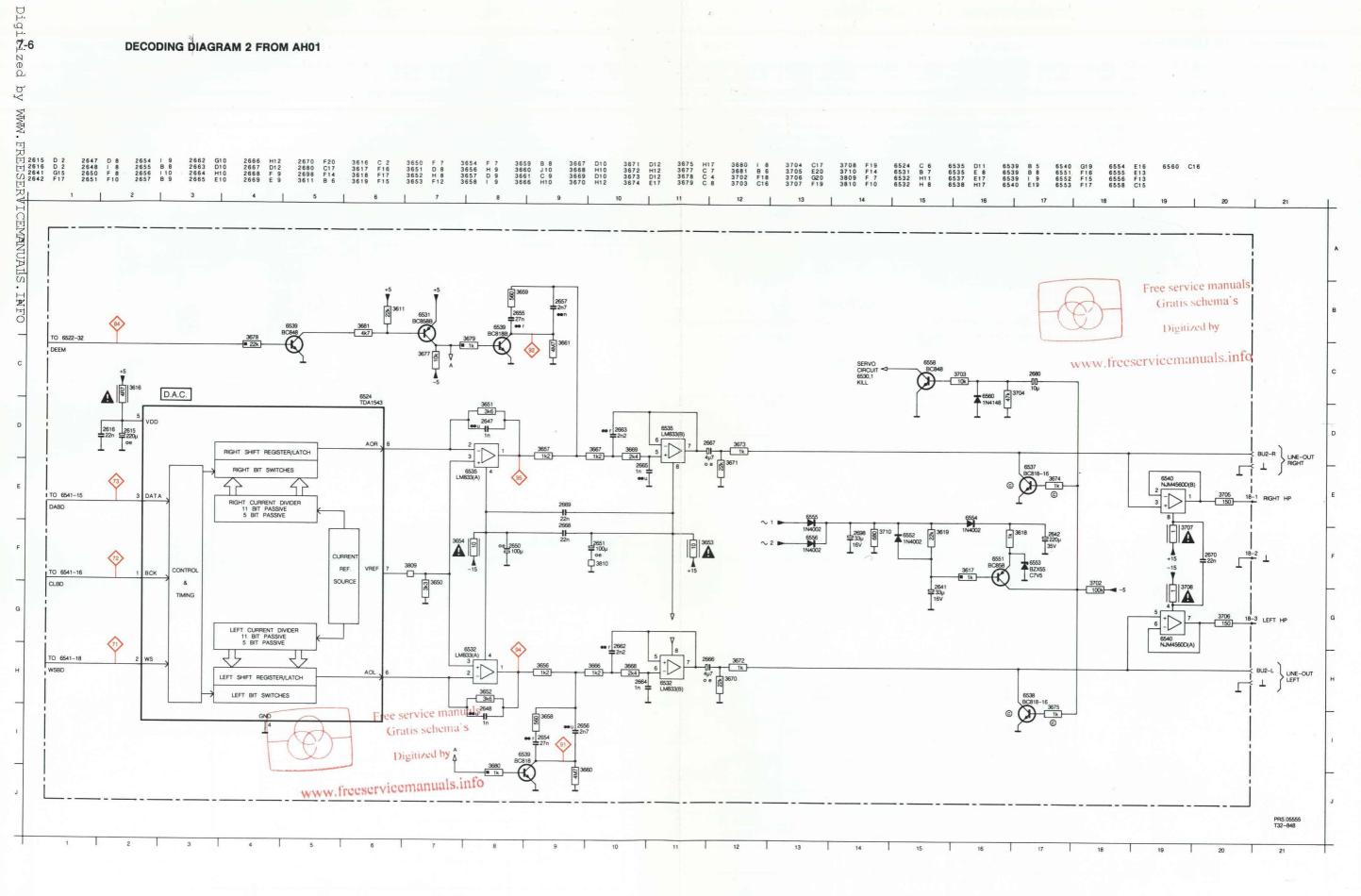
4822 209 73236 TDA 1543 (DAC4) Transformer (DAC4) 4822 146 30707

SERVO & DECODER PANEL FROM AH01



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DECODING DIAGRAM 1 FROM AH01

