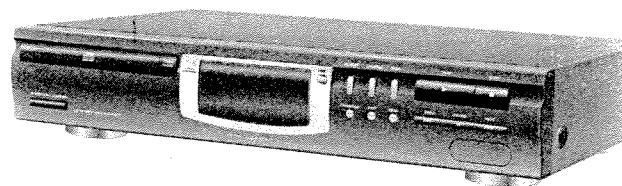


Service Service Service



Service Manua

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

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CS 53 100

GB 4822 725 2602



PHILIPS

**CLASS 1
LASER PRODUCT**

TECHNICAL SPECIFICATION

General

Dimensions (WxHxD) : 435 x 86 x 265mm
Weight : 2,9kg

Accessories

Instruction for use : 4822 736 16252 for /00
: 4822 736 16253 for /01
: 4822 736 16254 for /14

Remote control : 4822 219 10537

Remark : RC works with CD713 as well but is delivered with CD723 only!

Mains voltage

/00 : 220-230V(±10%) 50Hz
/01 : 120/230V(±15%) 50/60Hz
/14 : 220-230V(±10%) 50Hz

Power consumption

stand by : ≤5W
operating : approx. 8W

Audio performance

Number of channels : 2
Output voltage (Line out) : 2VRMS ±3dB
Unbalance left-right : ≤1dB
Frequency response : 20Hz-20kHz ≤0,4dB
Signal to noise ratio : 98 dB typ.
Dynamic range : 95dB typ. at 1kHz
THD : ≤0,0063% at 1kHz
Channel separation : 85dB typ. at 1kHz

Headphone output

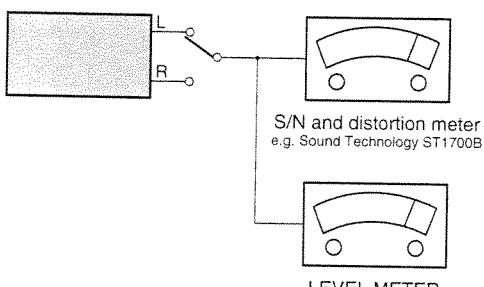
Output level (1kHz, 0dB) : ≥5VRMS
Unbalance left-right : ≤1,2dB
Output impedance : 120Ω
Load impedance : 32Ω - 600Ω
Output power : 25mW at 32Ω
: 52mW at 120Ω
: 29mW at 600Ω

Laser

Output power : <5mW (3mW typ.)
Wavelength : 780nm

Measurement setup

Use Audio Signal disc SBC429 4822 397 30184



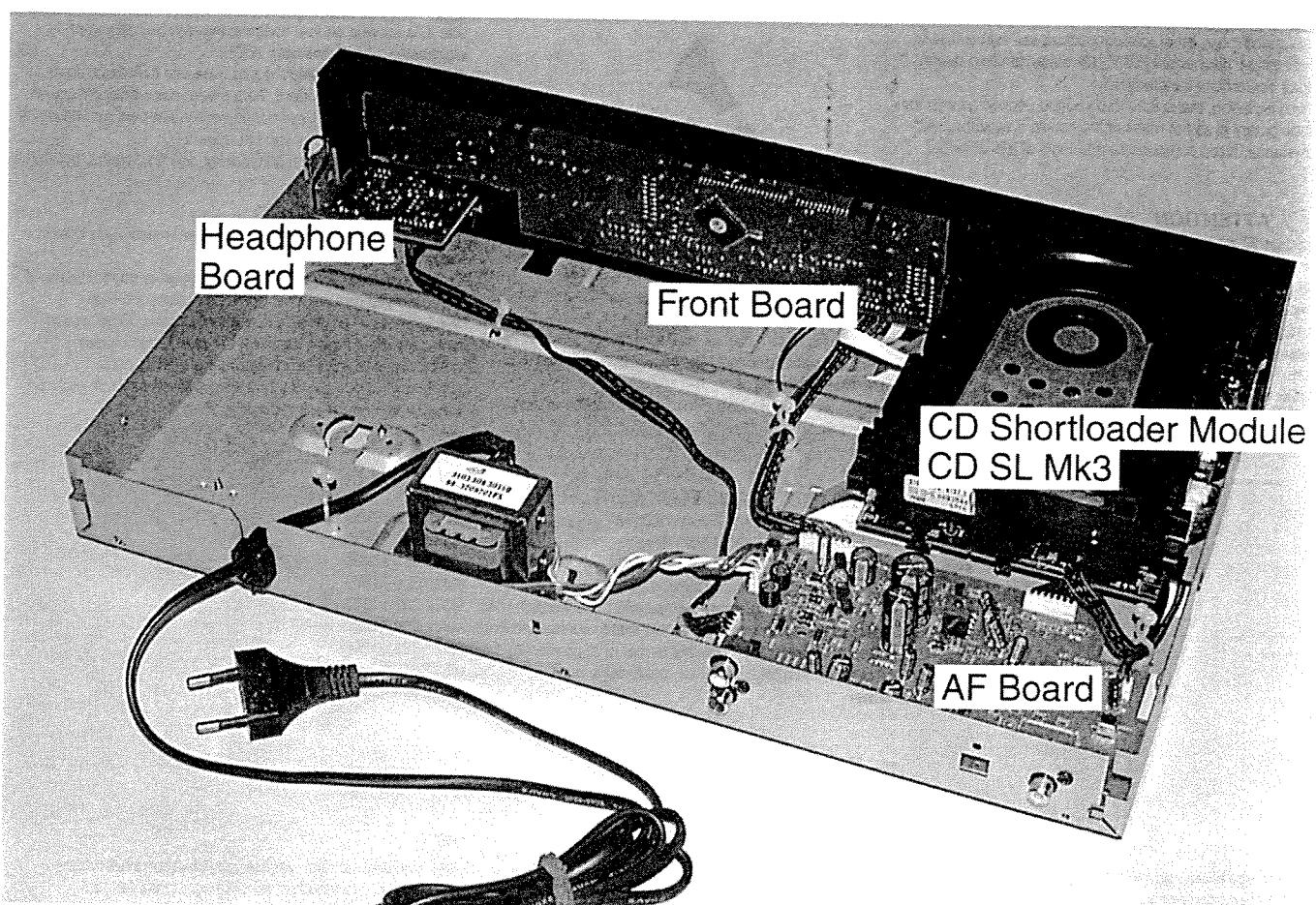
LEVEL METER
e.g. Sennheiser UPM550
with FF-filter

RC 5 Commands

System code = 20

Command	Code	Command	Code	Command	Code
KEY "0"	0	KEY "9"	9	SHUFFLE	28
KEY "1"	1	PLAY	53	SCAN	43
KEY "2"	2	STOP	54	REPEAT	29
KEY "3"	3	PAUSE	48	FADE	120
KEY "4"	4	TIME	11	VOLUME UP	16
KEY "5"	5	PREVIOUS	33	VOLUME DOWN	17
KEY "6"	6	REVIEW	50	STAND BY	12
KEY "7"	7	CUE	52	MUTE	13
KEY "8"	8	PROGRAM	36	NEXT	32

LOCATION OF PRINTED CIRCUIT BOARDS



(GB) WARNING

All ICs and many other semiconductors 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 wristband with resistance. Keep components and tools 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 enfilez le bracelet serré 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.
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.

(NL) WAARSCHUWING

Alle IC's en vele andere halfgeleiders zijn gevoelig voor elektrostatische 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 cautela 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) AVAILABLE ESD PROTECTION EQUIPMENT :

anti-static table mat	large 1200x650x1.25mm
	small 600x650x1.25mm
anti-static wristband	
connection box (3 press stud connections, 1MΩ)	
extendible cable (2m, 2MΩ, to connect wristband to connection box)	
connecting cable (3m, 2MΩ, to connect table mat to connection box)	
earth cable (1MΩ, to connect any product to mat or to connection box)	
KIT ESD3 (combining all 6 prior products - small table mat)	
wristband tester	

- 4822 466 10953
- 4822 466 10958
- 4822 395 10223
- 4822 320 11307
- 4822 320 11305
- 4822 320 11306
- 4822 320 11308
- 4822 310 10671
- 4822 344 13999

(GB)

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

Safety components are marked by the symbol

(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.

Les composants de sécurité sont marqués

SAFETY**(NL)**

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

(I)

Le norme di sicurezza estigono che l'apparecchio venga rimesso nelle condizioni originali e che siano utilizzati i pezzi di ricambio identici a quelli specificati.
Componenti di sicurezza sono marcati con

(GB)

DANGER: Invisible laser radiation when open.
AVOID DIRECT EXPOSURE TO BEAM.

**CLASS 1
LASER PRODUCT**

(S) Varning !

Osynlig laserstrålning när apparaten är öppnad och spärren är urkopplad. Betrakta ej strålen.

(DK) Advarsel !

Usynlig laserstrålning ved åbning når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

(SF) Varoitus !

Avattussa laitteessa ja suojalukiukseen ohittaa olet alittina näkymättömälle laserisäteilylle. Älä katso sääteeseen !

(GB)

After servicing and before returning the set to customer perform a leakage current measurement test from all exposed metal parts to earth ground, to assure no shock hazard exists.

The leakage current must not exceed 0.5mA.

(F)

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

GENERAL INFORMATION

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GENERAL INFORMATION

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Standby power consumption

Frequency range

Amplitude linearity

Dynamic range

Signal-to-noise ratio

Channel separation

Total harmonic distortion

Audible output

Digital coaxial output

Impedance headphones

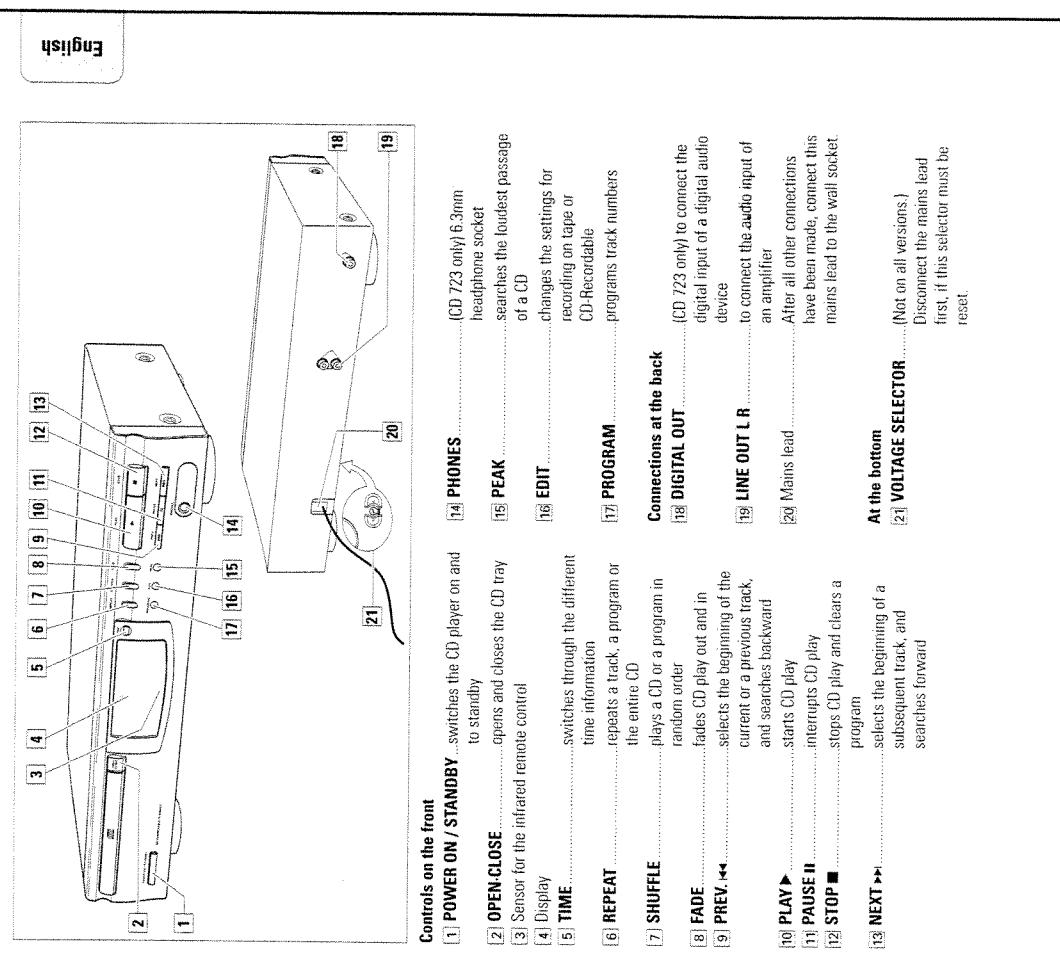
Dimensions

Weight

INSTRUCTION FOR USE

CONTROLS AND CONNECTIONS

English



Maintenance

Clean the CD player with a soft, slightly dampened lint-free cloth. Do not use any cleaning agents as they may have a corrosive effect.

Do not expose the CD player, batteries or CDs to humidity, rain, sand or excessive heat (caused by heating equipment or direct sunlight).

This CD player can play all kinds of Audio discs such as CD Recordables and CD-Rewriteables. Do not try to play a CD-ROM, CD-I, CIV or computer CD.

If the CD player cannot read CDs correctly use a common available cleaning CD to clean the lens before taking the CD player to repair. Other cleaning methods may destroy the lens. Always keep the tray closed to avoid dust on the lens.

The lens may cloud over when the CD player is suddenly moved from cold to warm surroundings. Playing a CD is not possible then. Leave the CD player in a warm environment until the moisture evaporates.

To clean a CD, wipe it in a straight line from the center toward the edge using a soft, lint-free cloth. A cleaning agent may damage the disc! Never write on a CD or attach a sticker to it.

Technical data

Subject to modification without notice.

Standby power consumption

< 5W

Frequency range

< 20-20000Hz

Amplitude linearity

< 1dB (1kHz, 90dB)

Dynamic range

95dB (1kHz, A-weighted)

Signal-to-noise ratio

.98dB (1kHz, A-weighted)

Channel separation

90dB (1kHz)

Total harmonic distortion

(0.006%, 84dB (1kHz))

Audible output

2V RMS ±3dB, 11kΩ

Digital coaxial output

.75Ω acc. IEC 958

Impedance headphones

30-60Ω (5 [e. m. f. from 12Ω])

Dimensions

435 × 86 × 255mm

Weight

2.4kg

Controls on the front

[1] POWER ON / STANDBY switches the CD player on and to standby

[2] OPEN/CLOSE opens and closes the CD tray

[3] Sensor for the infrared remote control

[4] Display

[5] TIME Switches through the different time information

[6] REPEAT repeats a track, a program or the entire CD

[7] SHUFFLE plays a CD or a program in random order

[8] FADE fades CD play out and in

[9] PREV. ▶ selects the beginning of the current or a previous track, and searches backward

[10] PLAY ▶ starts CD play

[11] PAUSE II interrupts CD play

[12] STOP ■ stops CD play and clears a program

[13] NEXT ▶ selects the beginning of a subsequent track, and searches forward

[14] PHONES (CD 723 only) 6.3mm headphone socket

[15] PEAK searches the loudest passage of a CD

[16] EDIT changes the settings for recording on tape or CD-Recordable programs track numbers

[17] PROGRAM (CD 723 only) to connect the digital input of a digital audio device

[18] DIGITAL OUT to connect the audio input of an amplifier

[19] LINE OUT L/R After all other connections have been made, connect this mains lead to the wall socket

[20] Mains lead (Not on all versions.) Disconnect the mains lead first if this selector must be reset.

At the bottom

[21] VOLTAGE SELECTOR (Not on all versions.)

COMPACT
DISC
DIGITAL AUDIO
(Rewritable)

COMPACT
DISC
DIGITAL AUDIO
Foto-MiniDisc

COMPACT
DISC
DIGITAL AUDIO
(Rewritable)

INSTALLATION AND REMOTE CONTROL

Accessories

This CD player is supplied including:

- a remote control (CD 723 only)
- 2 batteries for the remote control (CD 723 only)
- a connection cable
- this instruction booklet

Connections

Usual connection, DIGITAL OUT

- 1 Insert the red plug of the supplied connection cable into R and the other plug into L.
- 2 Insert the other side of the cable into the corresponding sockets of the CD or AUX input of your amplifier.

Important!

You may also use the TUNER or TAPE, but never the PHONO input of your amplifier!

Digital connection, DIGITAL OUT (CD 723 only)

Never connect this socket to a nondigital input – such as AUX, CD, PHONO, TAPE – of an amplifier. This output supplies a digital signal and can therefore only be connected to a digital input.

- 1 Insert an optional coaxial cable into DIGITAL OUT.

- 2 Insert the other side of the cable into the digital input of your digital device (e.g. CD Recorder).

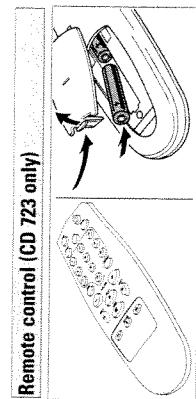
Mains

The type plate is located on the back of the CD player.

- 1 If your set is equipped with a VOL/TAGF selector (at the bottom), set this selector to your local mains voltage if necessary. Position 220V includes 110V–127V / Position 230V includes 220V–240V.

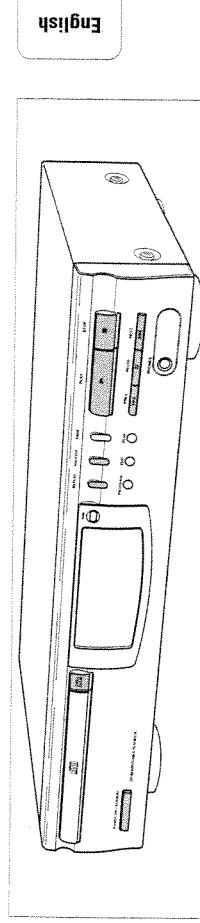
- 2 Connect the mains cable to the wall socket. This switches on the mains supply.

Note: To disconnect the CD player from the mains completely, remove the mains plug from the wall socket.



PLAYBACK

English



Playing a CD

- 1 Use POWER ON / STANDBY to switch on the CD player.

CD appears on the display.

- 2 Press OPEN CLOSE to open the CD tray.

CD appears on the display.

- 3 Insert an audio CD (printed side up) and press OPEN CLOSE to close the CD compartment.

RECORD appears on the display. Then the number of tracks and the playing time is shown.

- 4 Press PLAY ▶ to start CD play.

The display shows #: TRACK, TIME, and the number and time of the actual track.

- You can interrupt CD play by pressing PAUSE II.

The display shows #: and the track number and time where playback was stopped.

- Continue CD play by pressing PAUSE II again.

- 5 Press STOP ■ to stop CD play.

Note: Playback will also stop if the end of the CD is reached

Selecting a track during CD play

- Briefly press PREV. ▲ or NEXT ▼ (PREV. ▲ or NEXT ▼ on the remote control) once or several times to skip to the beginning of the current, previous or subsequent track(s).

or

- Use the digits 1–9 on the remote control to key in the number of a track.

CD play continues with the selected track.

Selecting a track when CD play is stopped

- 1 Briefly press PREV. ▲ or NEXT ▼ (PREV. ▲ or NEXT ▼ on the remote control) once or several times.

- Use the digits 1–9 on the remote control to key in the number of a track.

- 2 Press PLAY ▶ to start CD play.

Playback starts with the selected track.

INSTRUCTION FOR USE

English

Searching for a passage during CD play

- 1 Hold down PREV. ▲ or NEXT ▼ (◀ or ▶ on the remote control) to find a particular passage in a backward or forward direction.

CD play continues at a low volume.

- 2 Release the button when you have reached the desired passage.

Note: In the shuffle and repeat mode and when playing a program, searching is only possible within the particular track.

Random order playing (SHUFFLE)

- 1 Press SHUFFLE before or during CD play to start shuffle play.

SHUFFLE is shown in the display. All the tracks of the CD (or program if available) will now be played in random order.

- 2 Press SHUFFLE again to return to normal CD play.

Repeating the CD, a track or a program

- 1 Press repeatedly REPEAT during CD play.

The display shows the different repeating modes.

- REPEAT 1: the current track is played repeatedly.
- REPEAT: the entire CD or program (if available) is played repeatedly.

- 2 Press REPEAT until the display indication disappears to return to normal CD play.

Note: It is possible to activate the different playing modes at the same time, e.g. you can repeatedly play the entire CD or program in random order (PROGRAM REPEAT SHUFFLE).

Repeating a track and searching

- 1 Press repeatedly REPEAT during CD play.

The display shows the different repeating modes.

- Use the digits 1–9 on the remote control to key in the number of a track.

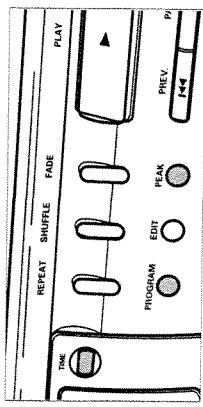
CD play continues with the selected track.

Important!

Playback starts with the selected track.

ADDITIONAL FUNCTIONS

ADDITIONAL FUNCTIONS



Clearing the program

1 If necessary press STOP ■ to stop program playing.

2 Press STOP ■ to clear the program.

PROGRAM scrolls through the display.

PROGRAM disappears and your program is cleared.

Note: The program will also be cleared if you open the tray.

Programming track numbers

You can select a number of tracks and store these in the memory in the desired sequence. You can store any track more than once. At most, 30 tracks can be stored in the memory.

1 Press **PROGRAM** to start programming. **PROGRAM** flashes.

*Note: If you press **PROGRAM** while playing a CD, the actual track will be added to the program.*

2 Press PREV. ▶ or NEXT ▶ (PREV. ▶ or NEXT ▶ on the remote control) to select the desired track.

• Key in the number of a track with the digits 1-0 on the remote control.

3 Press **PROGRAM** to store the track number.

TRACK, **TOTAL TIME**, and the number of the programmed track is displayed. The number of programmed tracks is increased and the time of the track is added to the total time of the program.

4 Repeat steps 2 and 3 for all tracks to be programmed.

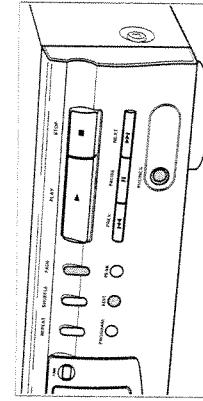
5 Press STOP ■ to end programming.

PROGRAM lights permanently.

• It is possible to review the program using the PREV. ▶ or NEXT ▶ (PREV. ▶ or NEXT ▶ on the remote control). You can add more tracks by pressing **PROGRAM** like you have done before.

6 Press PLAY ▶ to start program play.

*Note: If you try to store more than 30 tracks **PROGRAM** scrolls through the display.*



Fading out and in

You can fade out and in CD play, e.g. to stop and start a recording softly.

1 If necessary press STOP ■ to stop CD play.

2 Press PEAK to start searching.

PEAK starts flashing. Searching may need a few minutes. Then 4 seconds of the loudest passage are played repeatedly.

• You can interrupt peak play by pressing PAUSE ■. Continue peak play by pressing PAUSE ■ again.

3 Press STOP ■ to stop playing.

or

• Press PLAY ▶ to start CD play.

Time display

You can display time information which is stored on the CD.

While playing a CD or a program the number and elapsed time of the actual track and **TIME** are displayed.

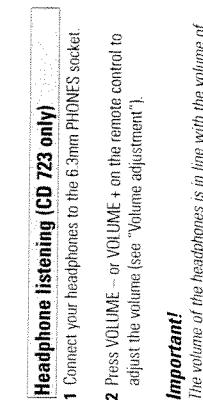
• Press **TIME** several times to display.

The number and remaining time of the actual track and **TIME**.

The number of the actual track, the total elapsed time of the CD, and **TOTAL TIME**.

The number of the actual track, the total remaining time of the CD, and **TOTAL TIME**.

Note: If the LCD is not playing you may only display the total time of the CD.



Headphone listening (CD 723 only)

1 Connect your headphones to the 6.3mm PHONES socket.

2 Press VOLUME - or VOLUME + on the remote control to adjust the volume (see "Volume adjustment").

Important!

The volume of the headphones is in line with the volume of the output. Therefore do not use VOLUME -/+ during recording.

Scanning the CD (CD 723 only)

It is possible to listen to the beginning of each track of a CD or program. You can choose whether to play 10, 20 or 30 seconds of each track.

1 Press HIGHLIGHT on the remote control repeatedly to switch through the different scan modes.

SC.FN 10 SC.FN 20 SC.FN 30 SC.FN OFF

2 As soon as the desired scan mode is displayed do not press the button again.

After 1 second scanning starts. The number and remaining time of the actual track, and **REM TIME** are displayed.

3 Press PAUSE ■ to stop scanning.

• Press PLAY ▶ to start CD play with the actual track.

Note: If you press HIGHLIGHT while SHUFFLE is active, shuttle will be stopped before scanning

Volume adjustment (CD 723 only)

The volume of the CD player can be adjusted. This affects the DIGITAL OUT output as well.

• Press VOLUME - or VOLUME + on the remote control.

The volume of the CD player is lowered or raised. The display shows the actual value between 1% 100% and 100% 1%.

• Press STOP ■ to stop scanning.

• Press PLAY ▶ to start CD play with the actual track.

Note: If you press HIGHLIGHT while SHUFFLE is active, shuttle will be stopped before scanning

Important!

VOLUME -/+ is altering the signal of the output. Before recording set the volume to 1% 100% and do not change during recording.

Locking the volume

It is possible to lock the output volume to its maximum. This affects the DIGITAL OUT output as well. Locking the volume can be useful when recording from the CD-player.

• Keep EDIT pressed for more than 2 seconds.

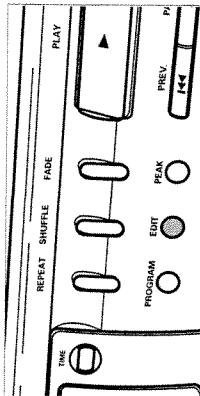
If the volume was locked:
The display shows 1% 100% and the volume is locked.

Note: If you press VOLUME -/+ and the volume is locked the display shows 1% 100%.

INSTRUCTION FOR USE

English

ADDITIONAL FUNCTIONS



English

- 5 Press PREV ▶ or NEXT ▶ (PREV ▶ or NEXT ▶ on the remote control) to switch through the different recording times and media.
E.g.: E 45, C 30, C 45, C 60, C 90 ...
- Note: C is for cassette, C HR is for CD-Recordable and CD-Rewritable and therefore for single-sided recording only.
- 6 As soon as the desired recording time and media is displayed press EDIT.
The number of tracks and the playing time are displayed.
- 7 Start your recording and press PLAY ▶ to start CD play.
If cassette C was selected the CD player pauses after playing the calculated tracks for side A. If CD-Recordable (L/R) was selected the CD player stops.
- 8 If required switch tape sides.
- 9 Press PLAY ▶ to start CD play again.
- The number of tracks and the playing time are displayed. The remaining tracks for side B are played.
- If you use "CD RFL" the recording stops after the last track that fits on one side of your recording media. Notice that CD-Recordables are single-sided only! If you use "CD TFL" some tracks will be skipped to minimise the unused space on your recording media. The sequence of the tracks stays as the original.
- 10 Insert a CD and, if desired, program track numbers.
- 11 Press EDIT to start the setup.
The display shows EDIT and EDIT F1.
- 12 Press PREV ▶ or NEXT ▶ (PREV ▶ or NEXT ▶ on the remote control) to switch through the different scan modes. EDIT F1, EDIT 11, EDIT 12 ... (EDIT aborts the edit function).
- 13 As soon as the desired edit mode is displayed press EDIT.
The display shows L R.

English

WARNING

Under no circumstances should you try to repair the CD player yourself as this will invalidate the guarantee.

If a fault occurs, first check the points listed below before taking the set for repair.

If you are unable to solve a problem by following this checklist, consult your dealer or service center.

TROUBLESHOOTING

Problem	Possible cause	Solution
No power	Mains cable is not securely connected	Connect mains cable properly
No or bad sound	CD 723 only: volume is too low Interference caused by electric equipment like TVs, computers, engines, etc.	Adjust volume. Keep the CD player away from electrical equipment
Loose or wrong connections	Loose or wrong connections	Connect the CD player correctly
Volume is too low	Headphone plug is dirty.	Adjust VOLUME -/+. Clean headphone plug
No or bad headphone sound (CD 723 only)	CD 723 only: volume is too low Loose or wrong connections	Adjust VOLUME -/+. Connect the CD player correctly
No or low quality recording	Electrostatic discharge.	Disconnect the CD player from mains, reconnect after a few seconds
No reaction to operation of any keys	No CD is inserted	Insert a CD
CD DISC is displayed	The CD is badly scratched or dirty	Replace or clean the CD.
DISC EDIT f 11 f12 f13	The CD is inserted upside down.	Insert CD with label upwards.
DISC EDIT f 11 f12 f13 is displayed	The CD-RW (or CD-R) is not properly recorded for the use on a standard CD player	Read the instruction booklet of your CD-Rwritable (or CD-Recordable) recorder on how to finalize a recording.
WRONG TRACK is displayed	The CD is badly scratched or dirty.	Replace or clean the CD.
WRONG TRACK is displayed	Chosen track number is higher than the highest track number on the CD.	Key in a track number within the range of the track numbers on the CD.
CD is displayed	First track of the CD is longer than the first side of the chosen recording media.	Choose a recording media with a recording time longer than the first track of the CD.
CD skips tracks	Volume is locked.	Press EDIT for more than 2 seconds to unlock the volume.
! Dr. F1 : is displayed (CD 723 only)	The CD is badly scratched or dirty.	Replace or clean the CD.
SHUFFLE or PROGRAM is active.	Laser lens is dirty.	Clean with a commonly available cleaning CD.
CD skips tracks	The laser lens is steamed up.	Wait until the lens has cleared.
Remote control does not function properly (CD 723 only)	Batteries are inserted incorrectly Batteries are flat.	Insert batteries correctly. Insert fresh batteries.
	Distance to the CD player is too large.	Reduce distance.

Environmental Information

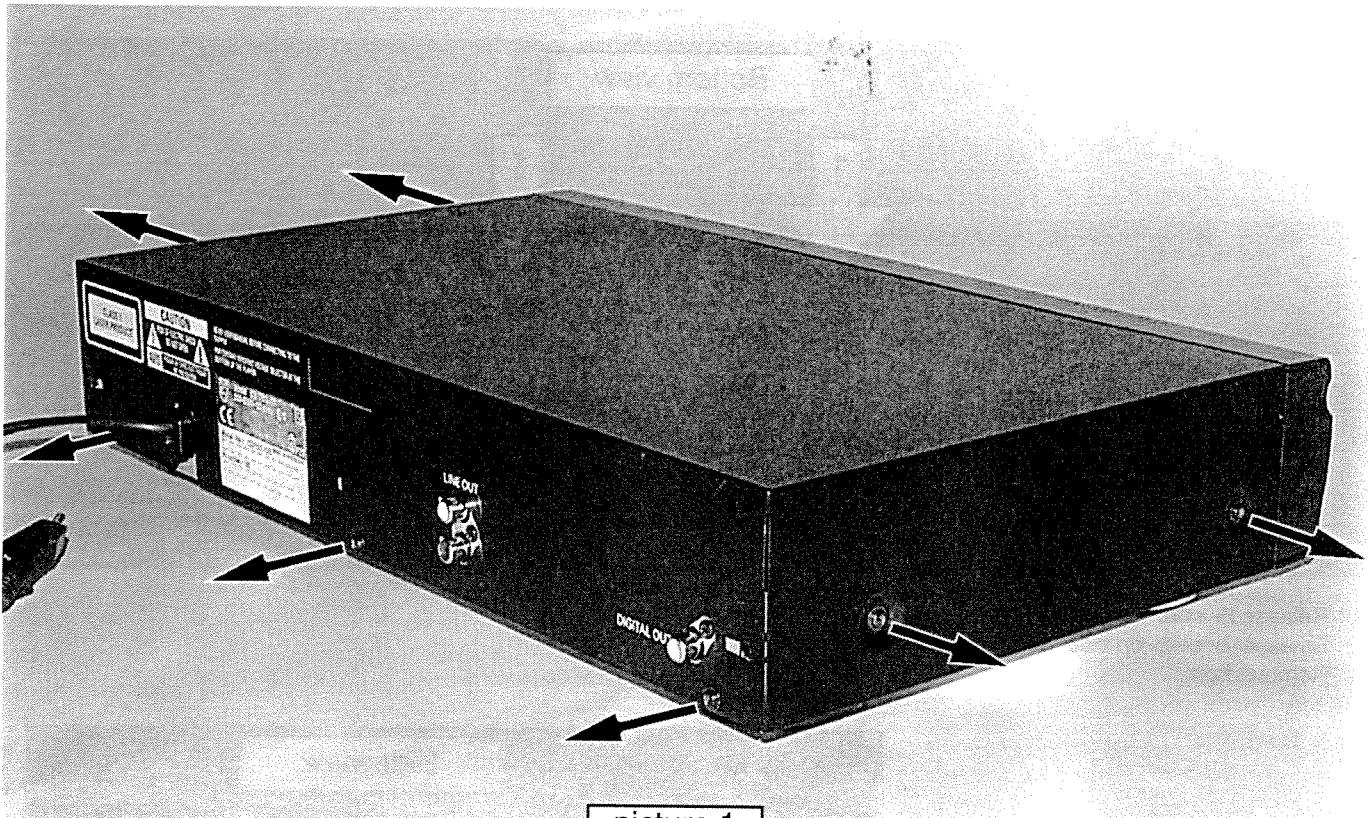
All redundant packing material has been omitted. We have done our utmost to make the packaging easily separable into three main materials: cardbaord (box), polystyrene foam (buffer) and polyethylene (bags, protective foam sheet).

Your set consists of materials which can be recycled if disassembled by a specialized company. Please observe the local regulations regarding the disposal of packing materials, exhausted batteries and old equipment.

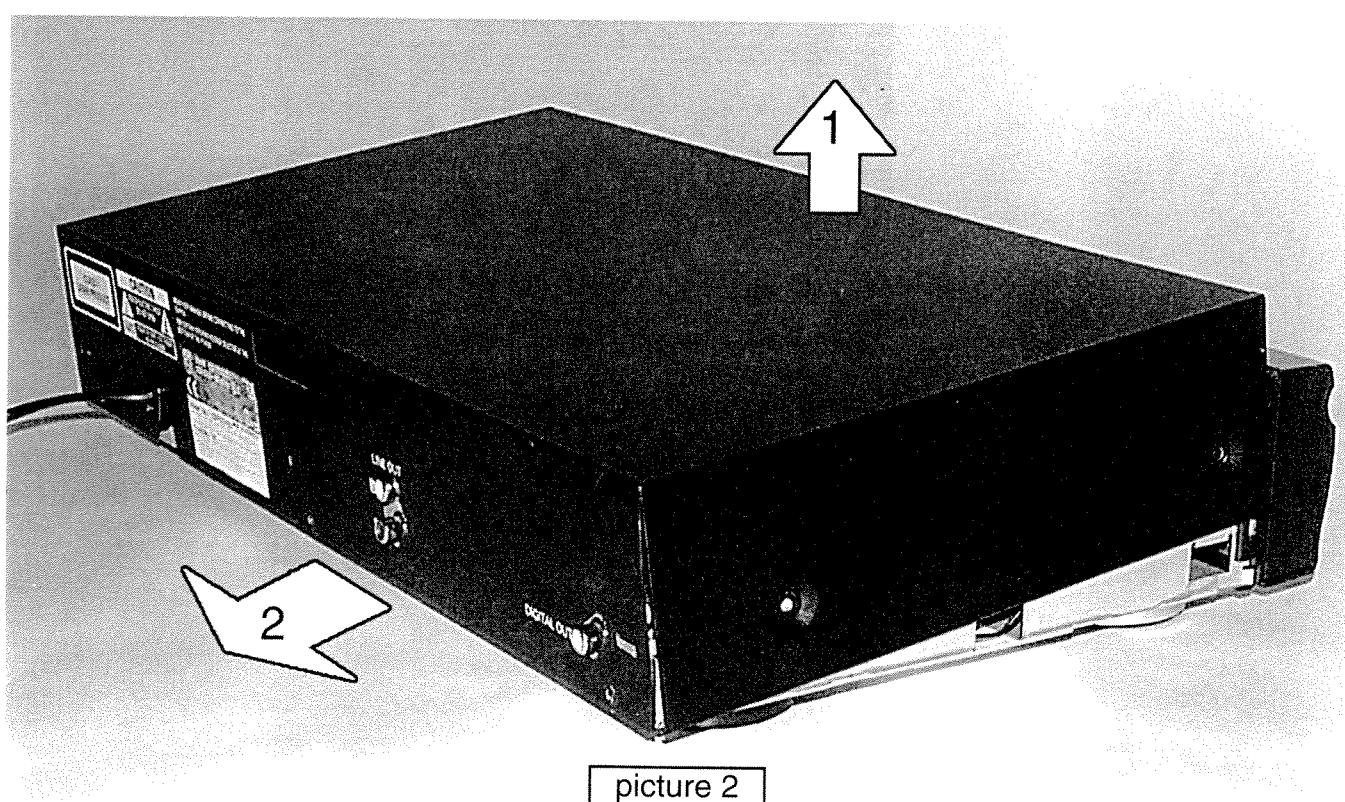
MECHANICAL INSTRUCTIONS

Dismantling Top Cover

- 1) Loosen 7x screw as shown in picture 1.



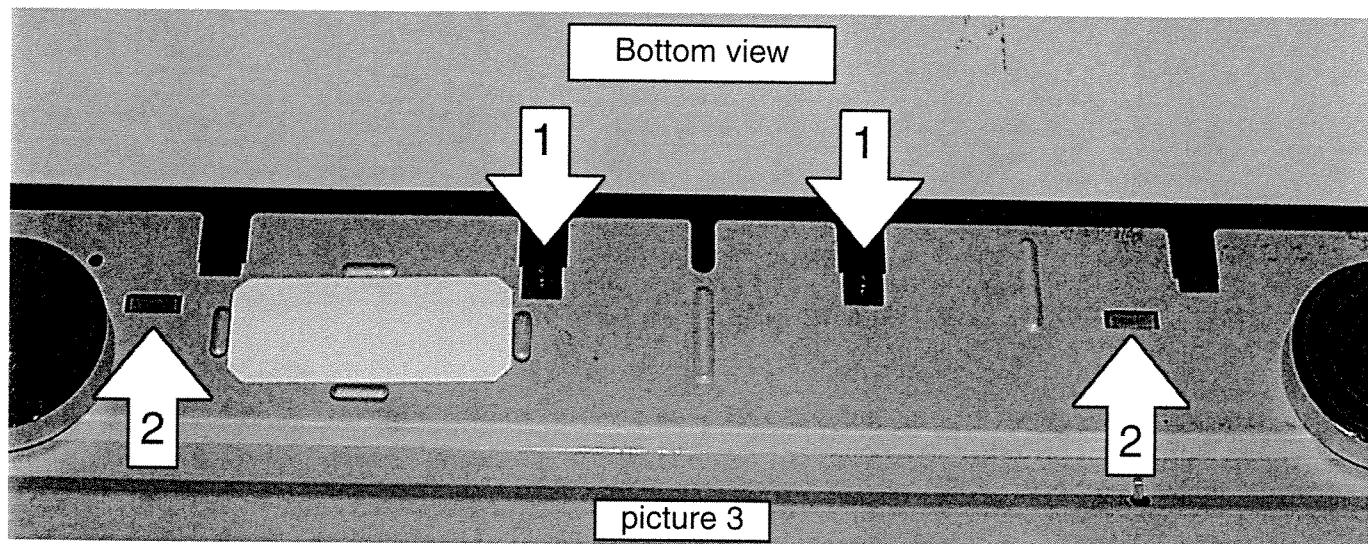
- 2) Lift top cover as shown in picture 2.
- 3) Remove top cover.



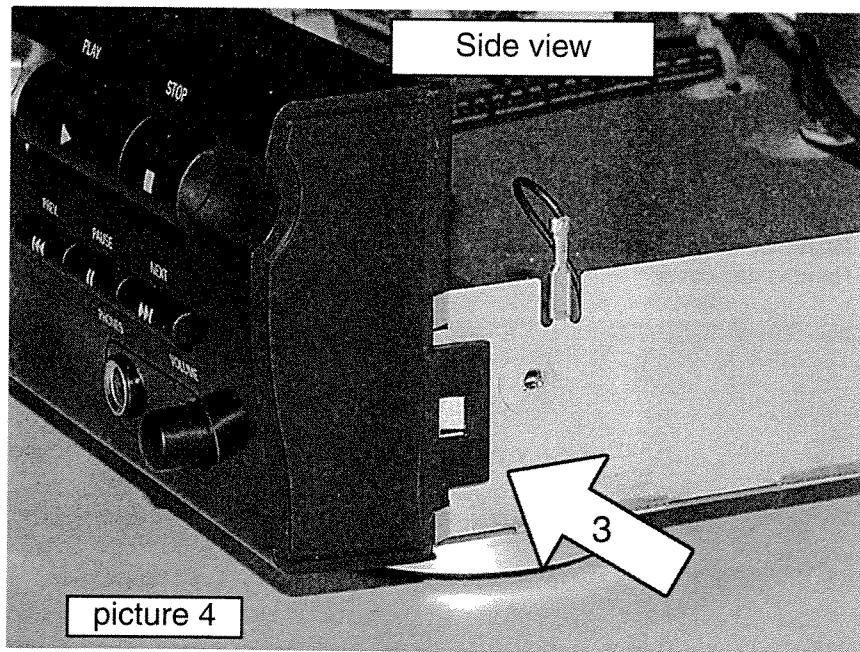
MECHANICAL INSTRUCTIONS

Dismantling Front

- 1) Loosen 2x screw as shown in picture 3.



- 2) Release 2x snap on bottom (see picture 3).
- 3) Release 2x snap on side (see picture 4).
- 4) Remove front.



Dismantling hints CD Short Loader

Dismantling the tray

- a) Press open/close button to open the tray. If the tray doesn't work, use a small screwdriver as shown in Fig.1 point 1 to move the tray outside. After the first centimetre it is possible to pull the tray out by hand.
- b) Release two snaps and remove tray.

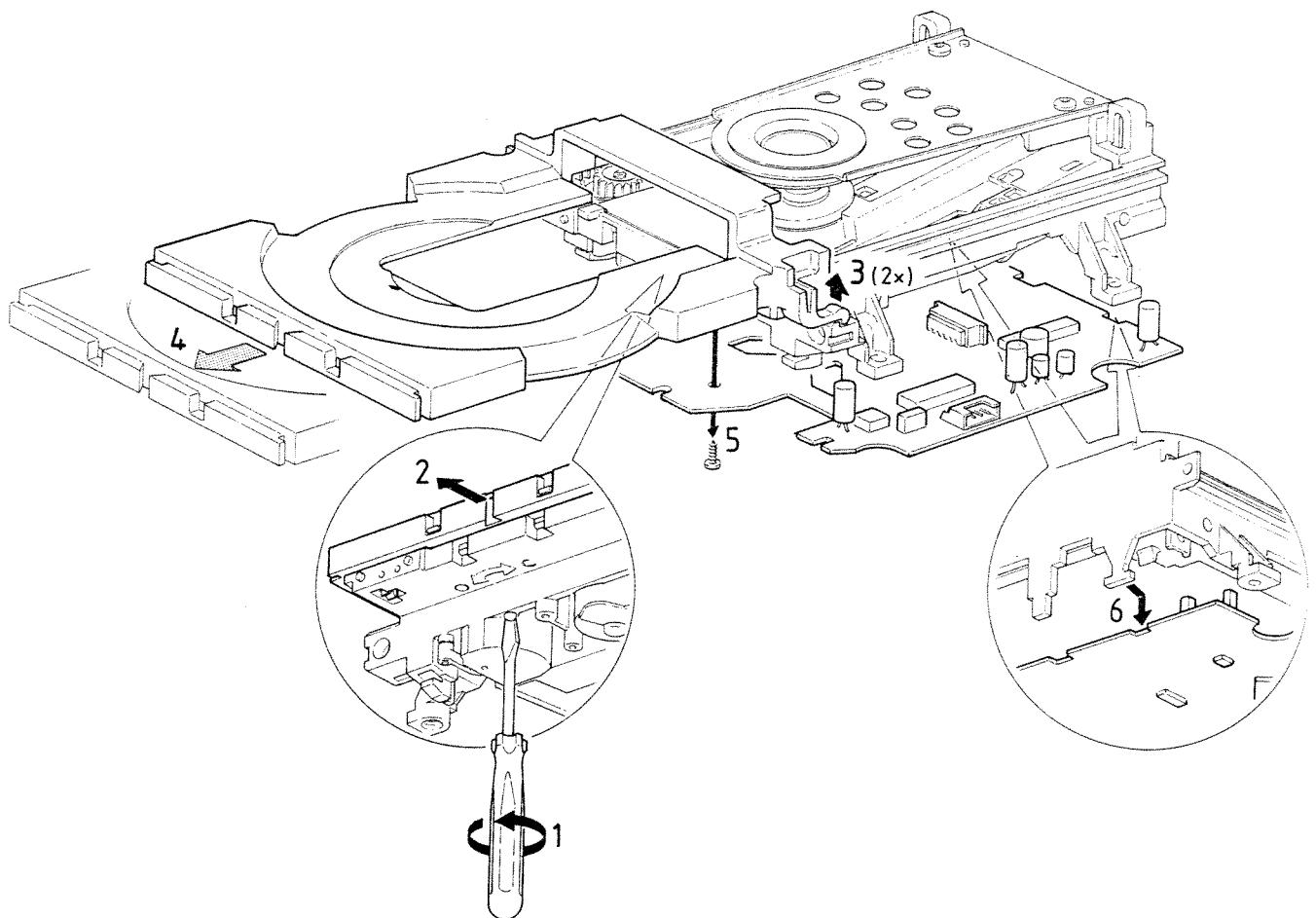


Fig. 1

Assembly of gear

- a) Use a pin (e.g. a paperclip) to align the cam wheel (a) with the gear wheel (b). See Fig. 2.
- b) Fix the wheels with the small plastic washers.

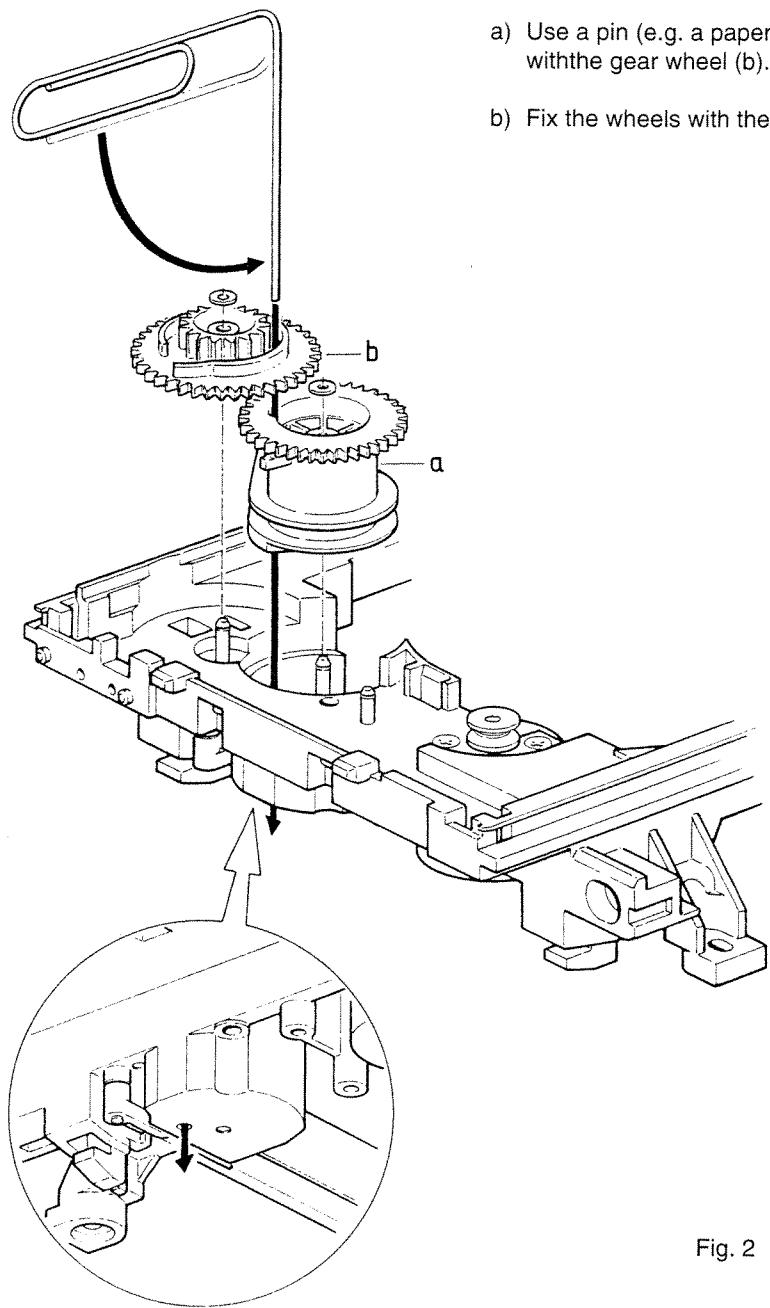
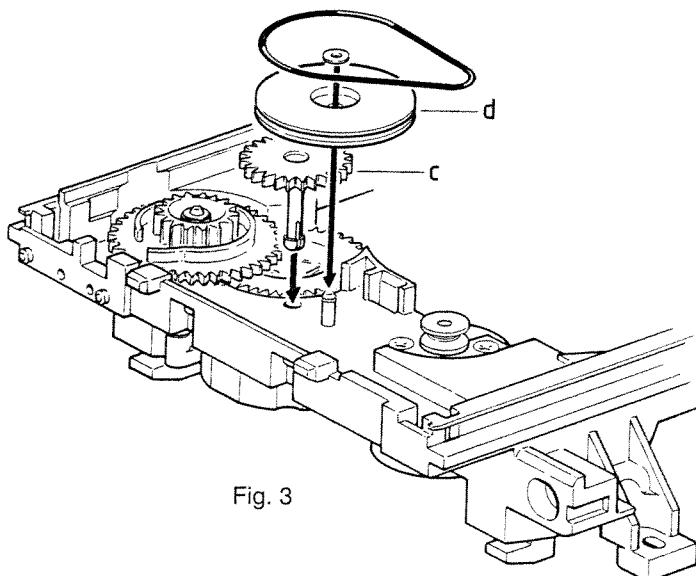
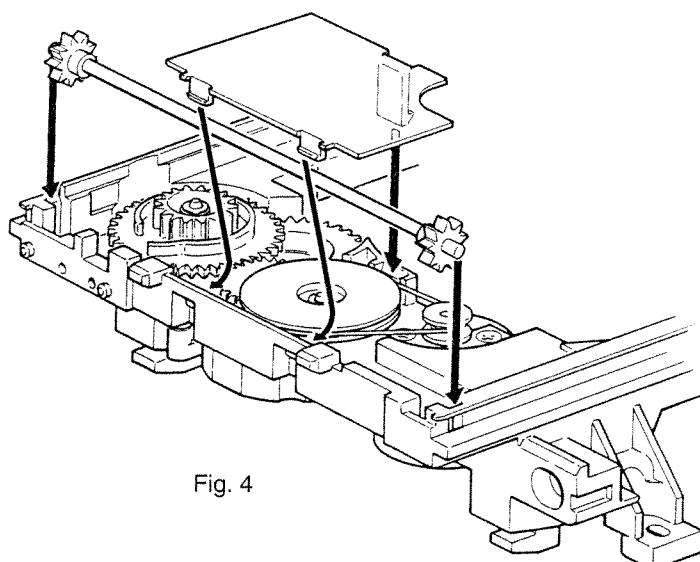


Fig. 2

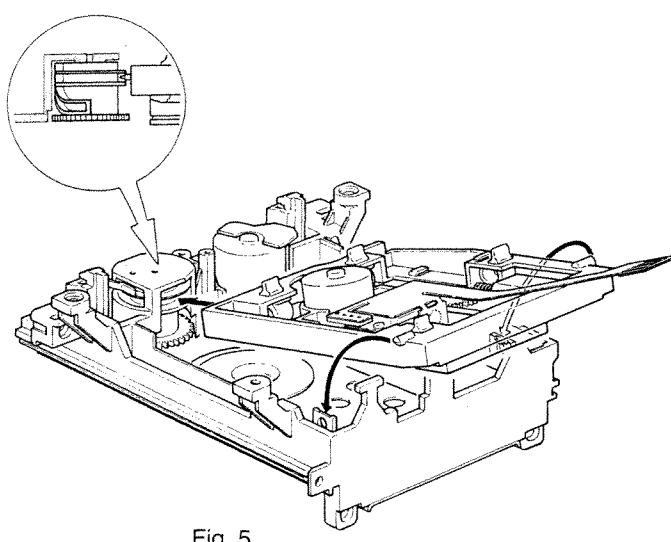
- c) Mount idle wheel 2 (c) and idle wheel 1 (d) in any position. See Fig. 3.
- d) Fix the idle wheel 1 (d) with the small plastic whasher.
- e) Mount the driving belt.



- f) Mount the pinion guiding assy and the cover as shown in Fig. 4.
- g) Turn the gear wheel (b) counter clockwise to endposition.



- h) Mount the CD Mechanism as shown in Fig. 5.
- i) Mount the tray (Align the tray to the chassis and push it inside).



Check if tray mechanism works correctly!

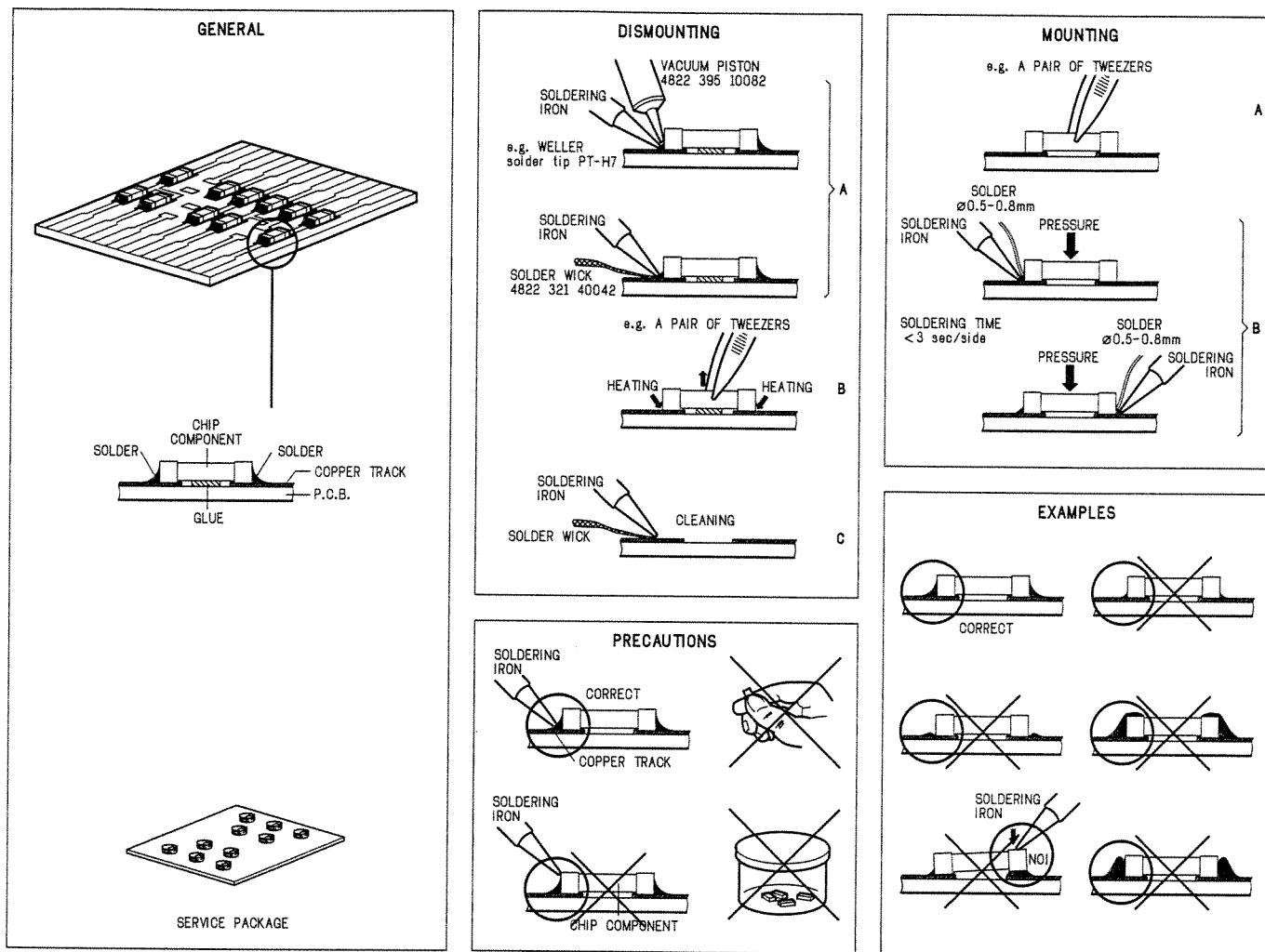
- 1) Turn the gear wheel (b) clockwise to its endposition (Use a small screwdriver as shown in Fig. 1 point 1).

The tray has to move to inner position first and then the CD mechanism has to move to its upper position.

- 2) Turn the gear wheel (b) counter clockwise to its endposition.

The CD Mechanism has to move to its lower position first and then the tray has to move outside.

HANDLING CHIP COMPONENTS



SERVICE TOOLS

TORX T10 screwdriver with shaftlength 150mm 4822 395 50423

TORX screwdriver set SBC 163 4822 295 50145

Audio signal disc SBC 429 4822 397 30184

Playability test disc SBC444 4822 397 30245

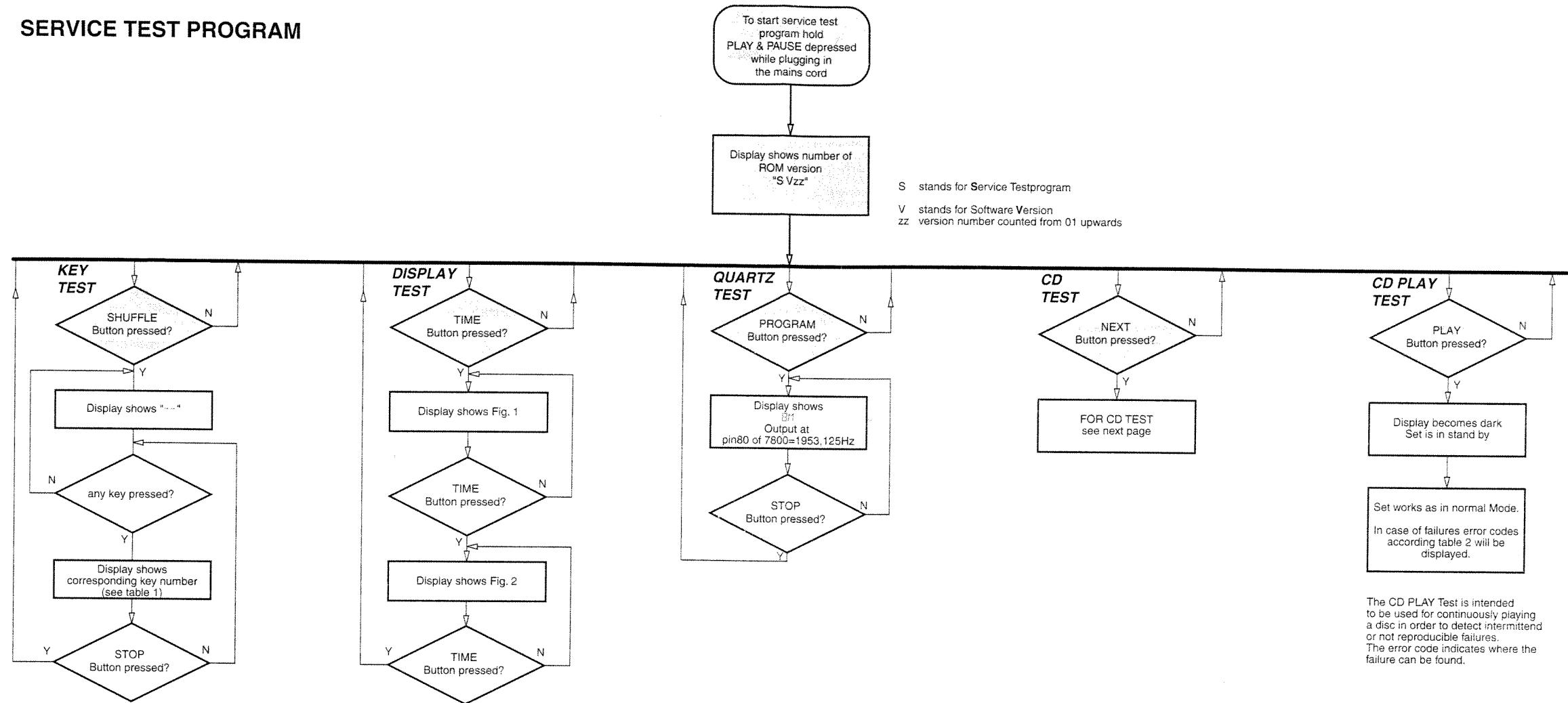
Test disc 5 (disc without errors) +

Test disc 5A (disc with dropout errors, black spots and fingerprints)

SBC 426/426A 4822 397 30096

Burn in test disc (65 min. 1kHz signal at -30dB level without "pause") ... 4822 397 30155

SERVICE TEST PROGRAM



KEY TEST

Key	Number	Key	Number	Key	Number
Next	1	Shuffle	7	Fade	13
Previous	2	Scan	8	Time	14
Play	3	Program	9	CD-Text	15
Stop	EXIT	Peak search	10	Scroll	16
Open/Close	5	Repeat	11	Stand by	17
Edit	6	Pause	12	any RC button	RC

Table 1

DISPLAY TEST

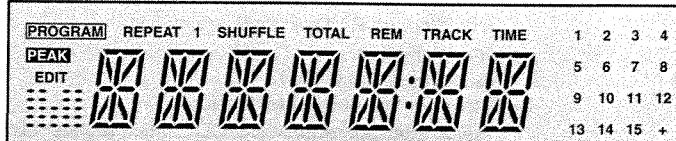


Fig. 1

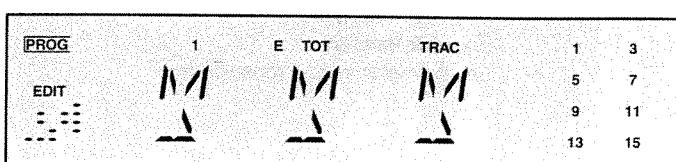


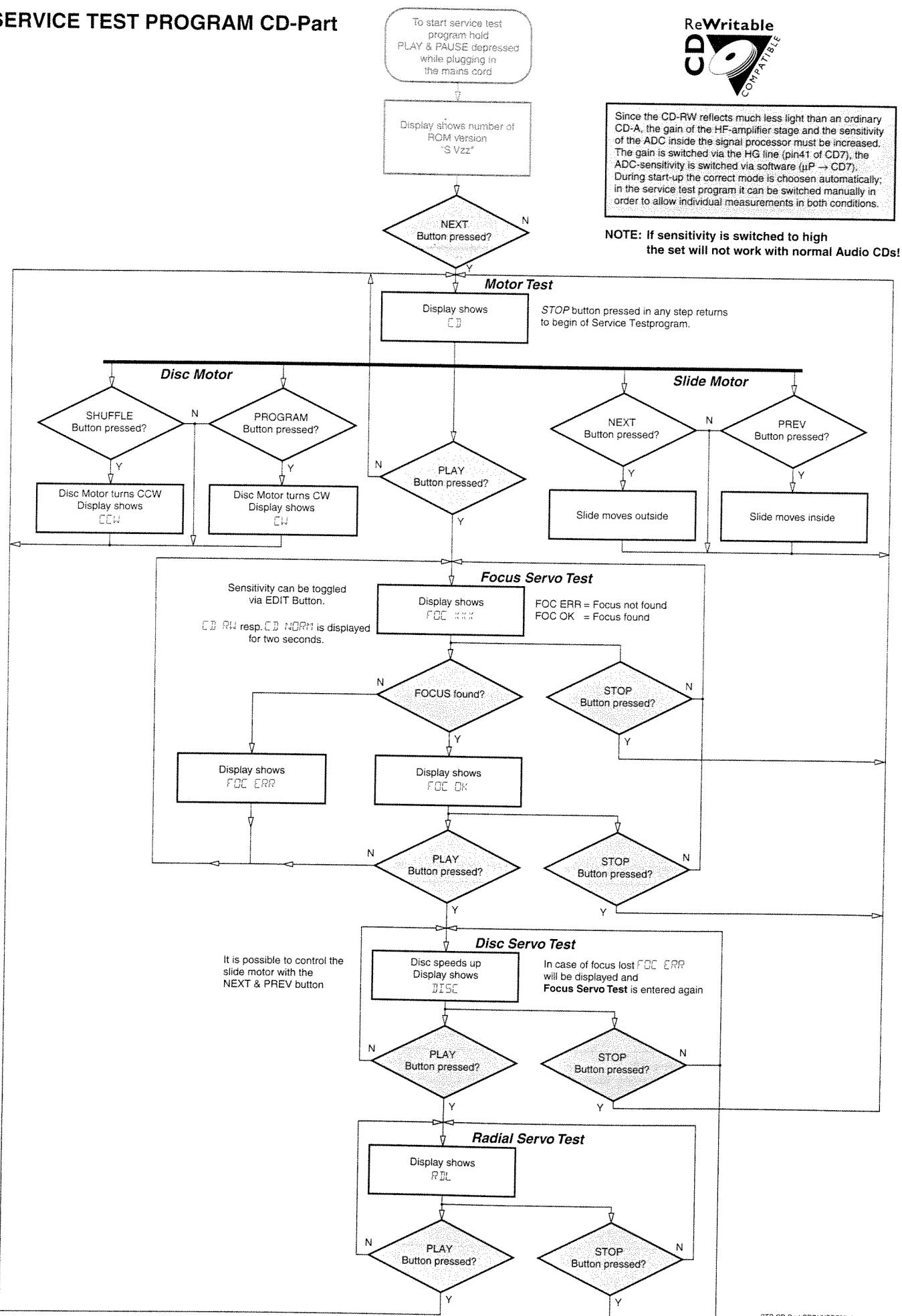
Fig. 2

CD PLAY TEST

Error number	Type	Description
1000	W	Focus error Triggered when the focus could not be found within a certain time when starting up the CD or when the focus is lost for a certain time during playing the CD.
1001	W	Radial error Triggered when the radial servo is not on track for a certain time during playing the CD.
1002	W	Slide in error Generated when the slide did not reach its inner position (innerswitch is closed) before 6 seconds have passed by. Innerswitch or slide motor problem.
1003	W	Slide out error Generated when the slide did not come out of its inner position (innerswitch is open) before 250ms have passed by. Innerswitch or slide motor problem.
1005	W	Jump error Generated when the jump destination could not be found within a certain time.
1006	W	Subcode error No valid subcode for a certain time.
1007	W	PLL error The Phase -Lock-Loop could not lock within a certain time.
1008	W	Turntable motor error Generated when the CD could not reach 75% of speed during starting up within a certain time. Disc motor problem
1020	F	Focus search error Focus point has not been found within a certain time.

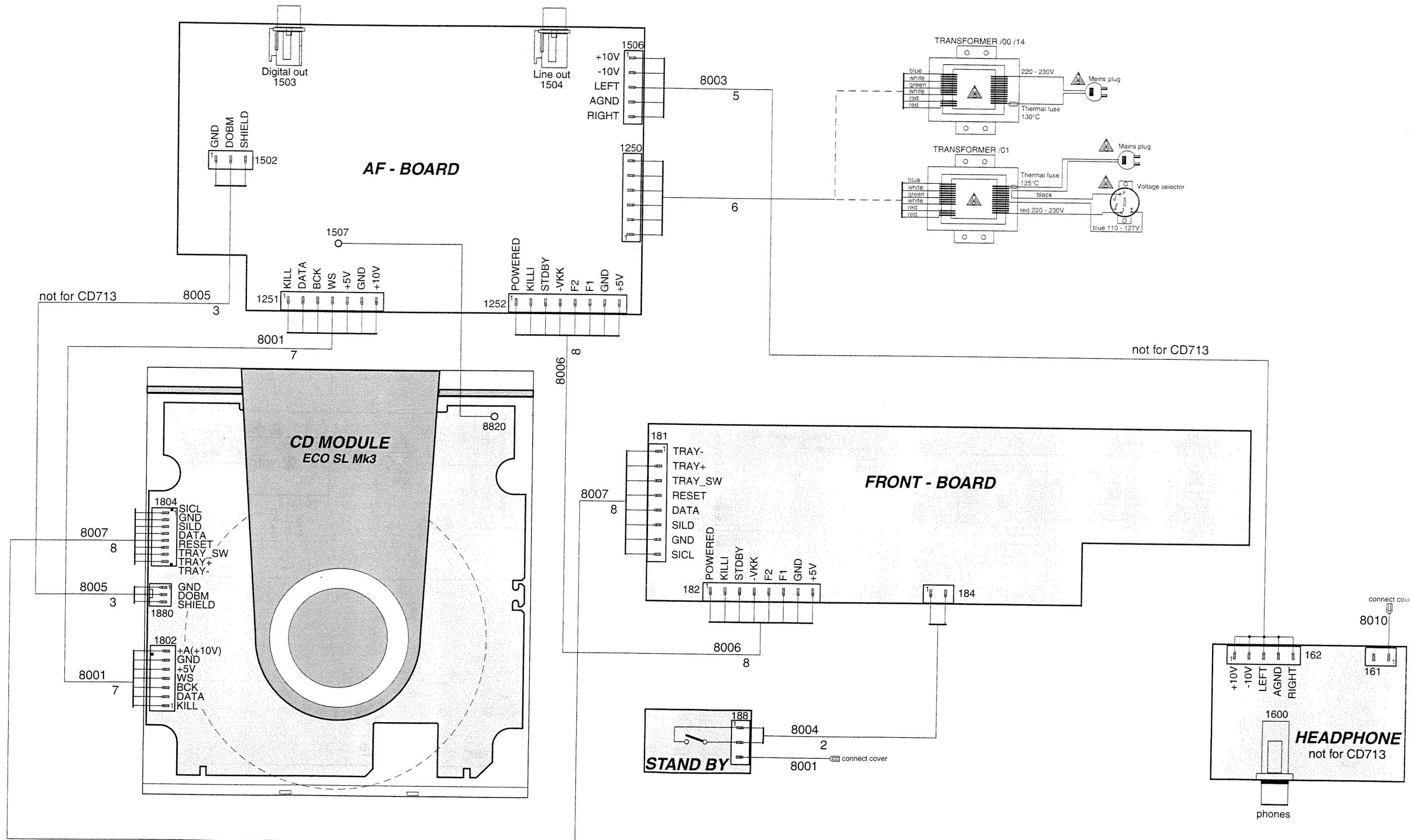
Table 2

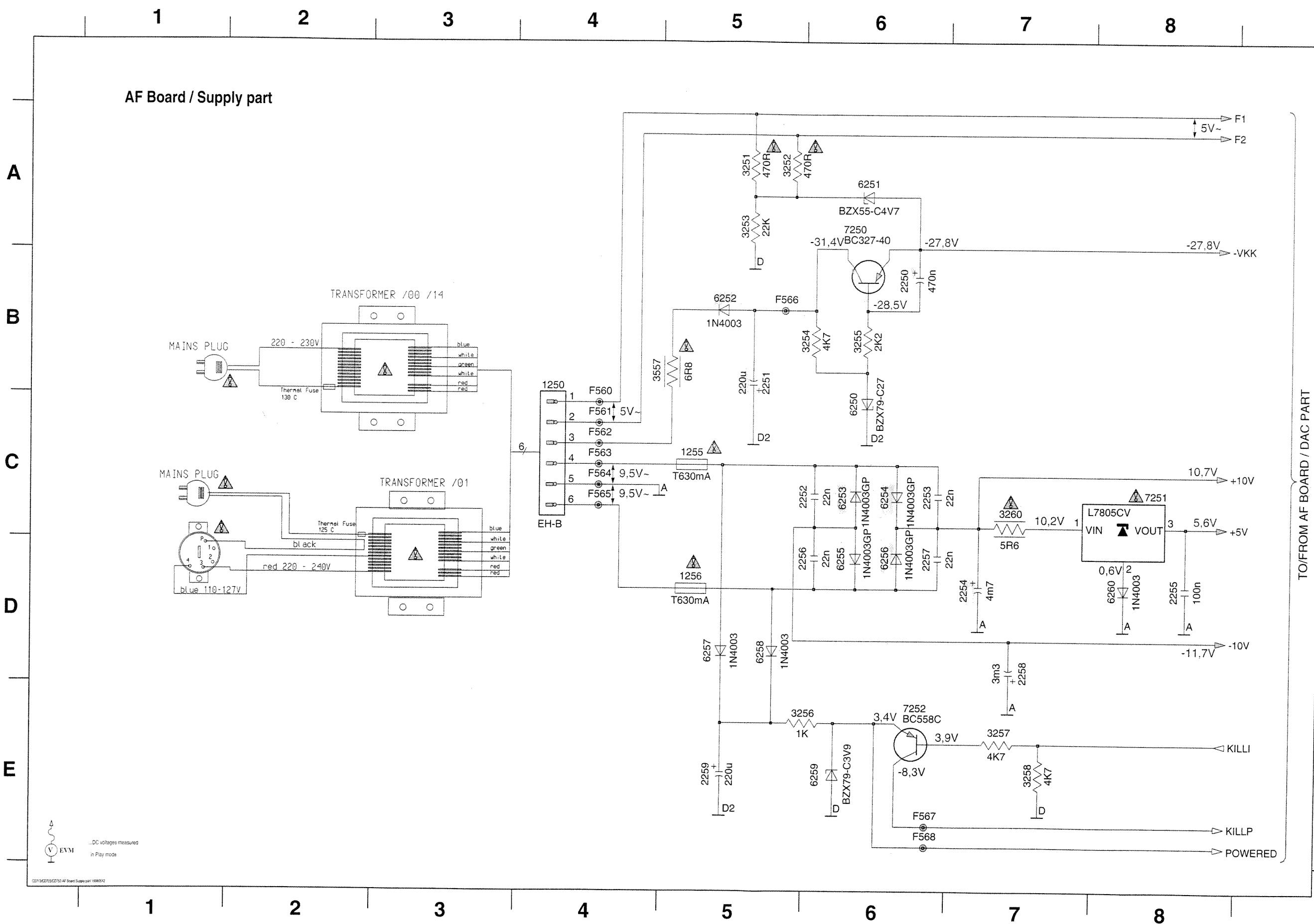
W = Warning
Error number remains on display till next warning/error
F = Fatal error
Set stops playing → Error number remains on display

SERVICE TEST PROGRAM CD-Part**Abbreviations CD Part****SAA7372 – DECODER AND DIGITAL SERVO IC CD7**

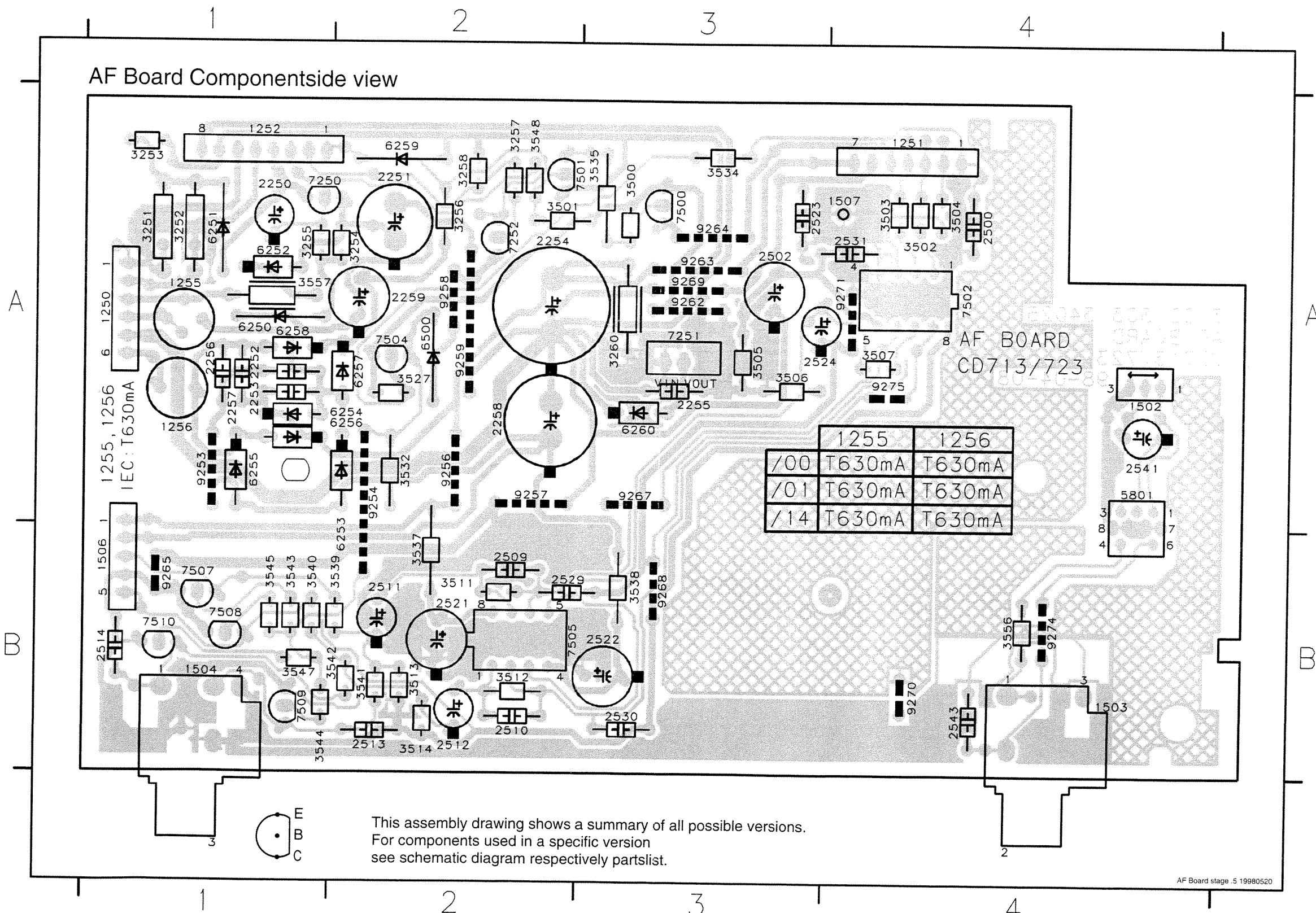
Pin	Name	Direction	Description
1	VSSA1	GND	supply (analog) of CD7
2	VDDA1	+4V	supply (analog) of CD7
3	D1	HF-preamp \rightarrow CD7	unipolar current input (central diode signal input)
4	D2	HF-preamp \rightarrow CD7	unipolar current input (central diode signal input)
5	D3	HF-preamp \rightarrow CD7	unipolar current input (central diode signal input)
6	VRL	GND	reference input for ADC
7	D4	HF-preamp \rightarrow CD7	unipolar current input (central diode signal input)
8	R1	HF-preamp \rightarrow CD7	unipolar current input (satellite diode signal input)
9	R2	HF-preamp \rightarrow CD7	unipolar current input (satellite diode signal input)
10	IREFT	\rightarrow CD7	current reference for calibration ADC
11	VRH	not connected	reference output from ADC
12	VSSA2	GND	supply (analog) of CD7
13	SEPLL	+4V	selects whether internal clock multiplier PLL is used
14	ISLICE	CD7 \rightarrow	current feedback from data slicer
15	HFIN	\rightarrow CD7	comparator signal input
16	VSSA3	GND	supply (analog) of CD7
17	HFREF	\rightarrow CD7	comparator common mode input
18	IREF	\rightarrow CD7	reference current pin (nom. VDD/2)
19	VDDA2	+4V	supply (analog) of CD7
20	TEST1	GND	test control input
21	CRIN	X-Tal \rightarrow CD7	crystal/resonator input
22	CDOUT	X-Tal \rightarrow CD7	crystal/resonator output
23	TEST2	GND	test control input
24	CL16	not connected	16.9344MHz system clock output
25	CL11	not connected	11.2896MHz or 5.6448MHz clock output (3-state)
26	RA	CD7 \rightarrow servo driver	radial actuator output
27	FO	CD7 \rightarrow servo driver	focus actuator output
28	SL	CD7 \rightarrow servo driver	slide actuator output
29	TEST3	GND	test control input
30	VDD1P	+4V	supply (digital) of CD7
31	DOB1	CD7 \rightarrow digital output	bi-phase mark output (3-state)
32	VSS1	GND	supply (digital) of CD7
33	MOTO1	CD7 \rightarrow servo driver	motor output1 of CD7; versatile (3-state)
34	MOTO2	CD7 \rightarrow servo driver	motor output2 of CD7; versatile (3-state)
35	SBSY	not connected	subcode block sync (3-state)
36	SFSY	not connected	subcode frame sync (3-state)
37	RCK	GND	subcode clock input
38	SUB	not connected	P to W subcode bits (3-state)
39	VSS2	GND	supply (digital) of CD7
40	V5	not connected	versatile output pin of CD7
41	V4	not connected	versatile output pin of CD7
42	V3	not connected	versatile output pin of CD7 (open drain)
43	KILL	CD7 \rightarrow	kill output; programmable (open drain)
44	MISC	not connected	C2 error flag; output only defined in CD-ROM modes (3-state)
45	DATA	CD7 \rightarrow DAC	serial data output (3-state)
46	WCLK	CD7 \rightarrow DAC	word clock output (3-state)
47	VDD2P	+4V	supply (digital) of CD7
48	BCLK	CD7 \rightarrow DAC	serial bit clock output (3-state)
49	VSS3	GND	supply (digital) of CD7
50	CL4	not connected	4.2336MHz μ P clock output
51	SDA	μ P \rightarrow CD7	μ P interface data I/O line (open drain output)
52	SCL	μ P \rightarrow CD7	μ P interface clock line
53	RAB	μ P \rightarrow CD7	μ P interface R/W and load control line
54	SILD	μ P \rightarrow CD7	μ P interface R/W and load control line
55	NC	no connection	no connection
56	VSS4	GND	supply (digital) of CD7
57	RESET	μ P \rightarrow CD7	power-on reset input (active low)
58	STATUS	not connected	servo interrupt request line/CD7 status register output (open drain)
59	VDD3C	+4V	supply core (digital)
60	C2FAIL	not connected	indication of correction failure (open drain)
61	CFLG	not connected	correction flag output (open drain)
62	V1	\rightarrow CD7	versatile input pin
63	V2	\rightarrow CD7	versatile input pin
64	LDON	\rightarrow CD7 \rightarrow 7820	laser drive on output (open drain)

WIRING DIAGRAM

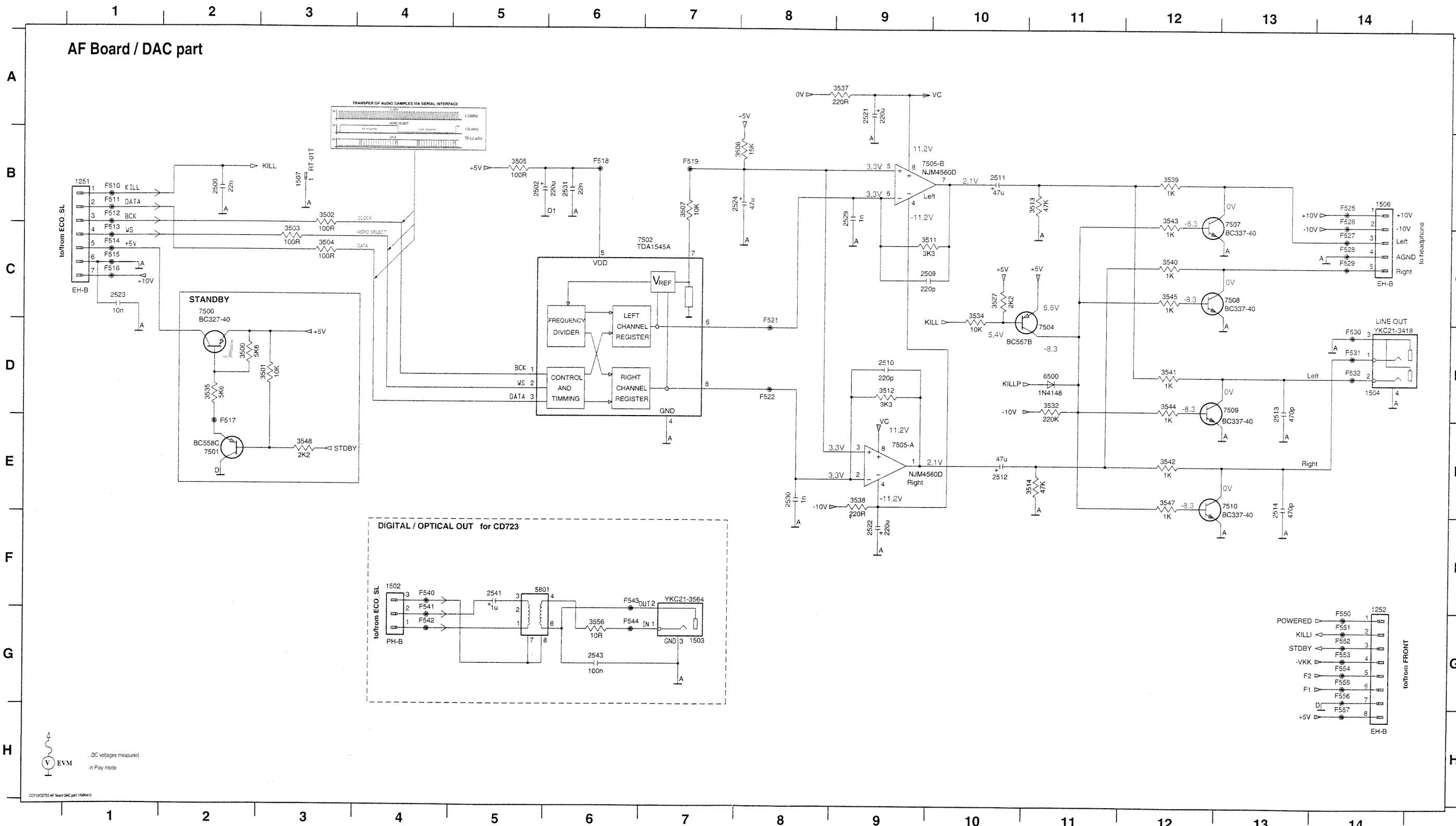




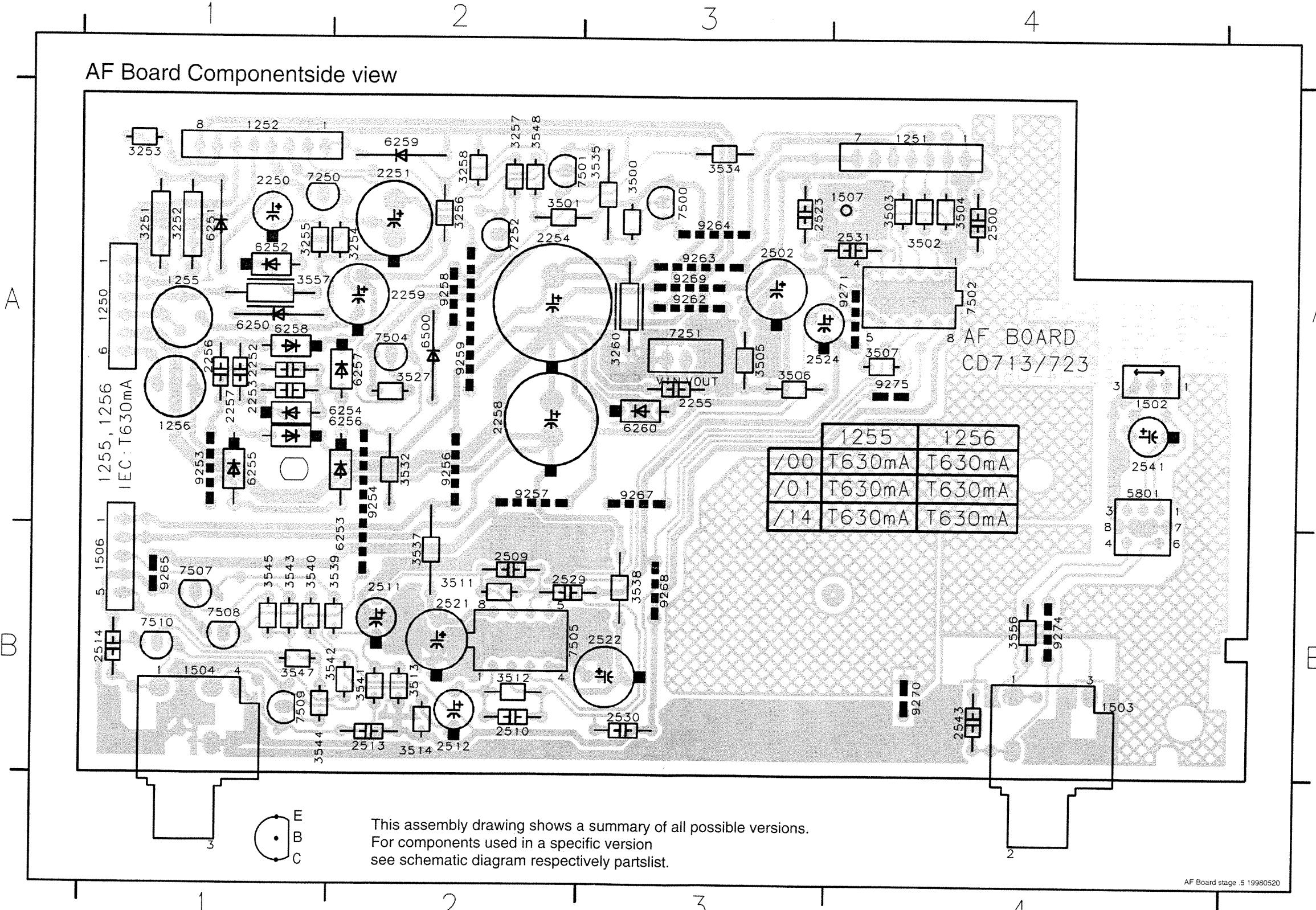
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1251 A4 B	2255 A3 B	2512 B2 B	2545 B4 B	3504 A4 B	3533 B4 B	3550 A4 B	6257 A2 B	7509 B1 B	9269 A2 B
1252 A1 B	2256 A1 B	2513 B2 B	3251 A1 B	3505 A3 B	3534 A3 B	3552 A4 B	6258 A1 B	7510 B1 B	9270 A3 B
1255 A1 B	2257 A1 B	2514 B1 B	3252 A1 B	3506 A3 B	3535 A3 B	3553 A4 B	6259 A2 B	7511 B4 B	9272 A4 B
1256 A1 B	2258 A2 B	2515 A3 B	3253 A1 B	3507 B2 B	3537 B2 B	3556 B4 B	6260 A3 B	9253 A1 B	9274 B4 B
1502 A4 B	2259 A2 B	2516 A4 B	3254 A2 B	3508 B2 B	3538 B3 B	3557 A1 B	6500 A2 B	9254 A2 B	
1503 B4 B	2501 A3 B	2521 B2 B	3255 A1 B	3509 B3 B	3539 B2 B	5801 B4 B	7250 A1 B	9256 A2 B	
1504 B1 B	2502 A3 B	2522 B3 B	3256 A2 B	3510 B3 B	3540 B1 B	5803 B4 B	7251 A3 B	9257 A2 B	
1505 B4 B	2503 A4 B	2523 A3 B	3257 A2 B	3511 B2 B	3541 B2 B	6250 A1 B	7252 A2 B	9258 A2 B	
2250 A1 B	2504 A3 B	2524 A4 B	3258 A2 B	3512 B2 B	3542 B2 B	6251 A1 B	7500 A3 B	9262 A3 B	
2251 A2 B	2505 A4 B	2527 B4 B	3260 A3 B	3513 B2 B	3543 B1 B	6252 A1 B	7501 A2 B	9263 A3 B	
2252 A1 B	2506 A4 B	2540 B4 B	3500 A3 B	3514 B2 B	3544 B2 B	6253 A1 B	7504 A2 B	9264 A3 B	
2253 A1 B	2507 A3 B	2541 A4 B	3501 A2 B	3515 A3 B	3545 B1 B	6254 A2 B	7505 B2 B	9265 A3 B	
	2508 B3 B	2543 B4 B	3502 A4 B	3527 A2 B	3547 B1 B	6255 A1 B	7507 B1 B	9266 B3 B	

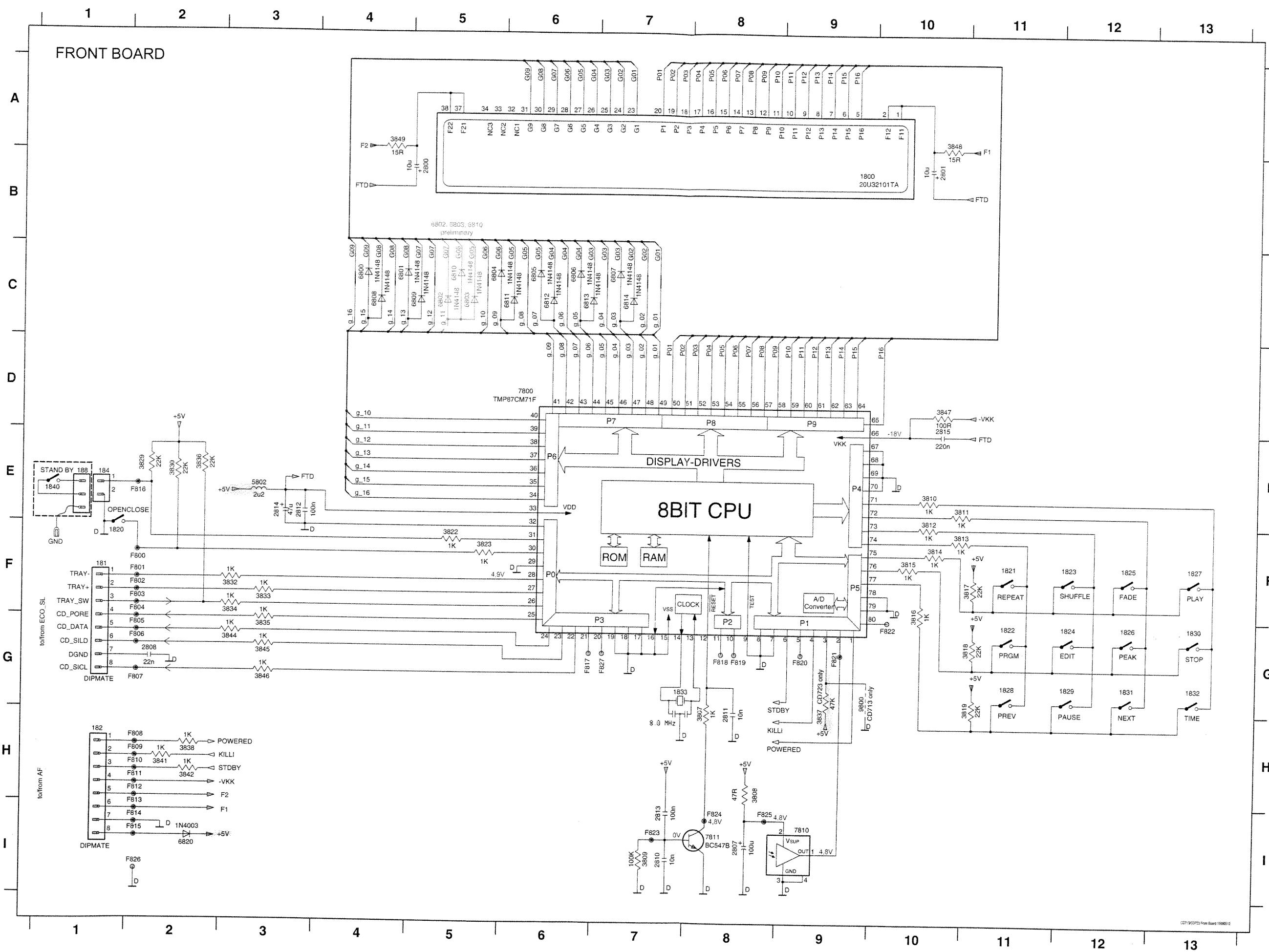


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1252 F14	1506 B14	2509 C9	2513 D13	2523 C1	2531 B6	3501 D3	3505 B5	3512 D9	3532 D11	3538 E9	3542 E12	3547 E12	6500 D11	7504 D11	7508 C13	F511 B1	F515 C1	F519 B7	F526 B14	F530 D14	F541 Q4	F550 G14	F554 G14	F557 H14
1502 F4	1507 B3	2510 D9	2514 E13	2524 B7	2541 F5	3502 B3	3506 B7	3513 B11	3534 C10	3538 B12	3543 B12	3548 E3	7500 C2	7505-A E9	7509 C13	F512 B1	F516 C1	F521 D8	F527 C14	F531 D14	F542 G4	F551 G14	F555 G14	F556 G14
1503 G7	2500 B2	2511 B10	2521 A9	2529 B9	2543 G6	3503 C3	3507 B7	3514 E11	3535 D2	3540 C12	3544 D12	3556 G6	7501 E2	7505-B B9	7510 E13	F513 C1	F517 E2	F522 D8	F528 C14	F532 D14	F543 F6	F552 G14	F556 G14	



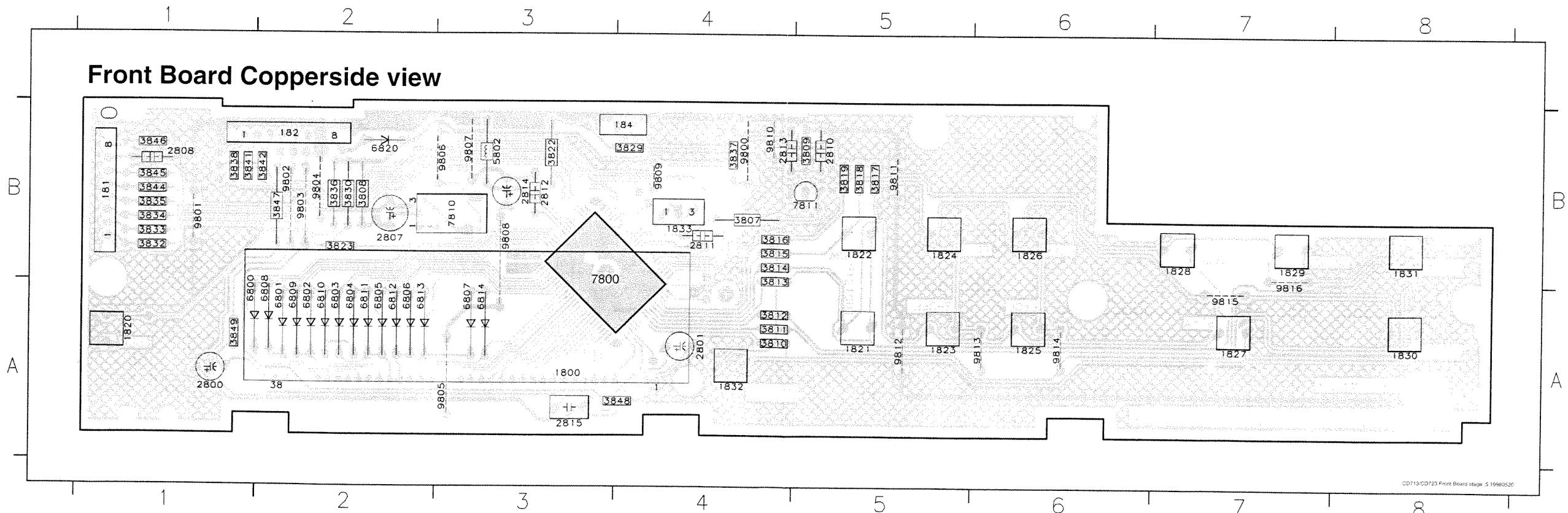
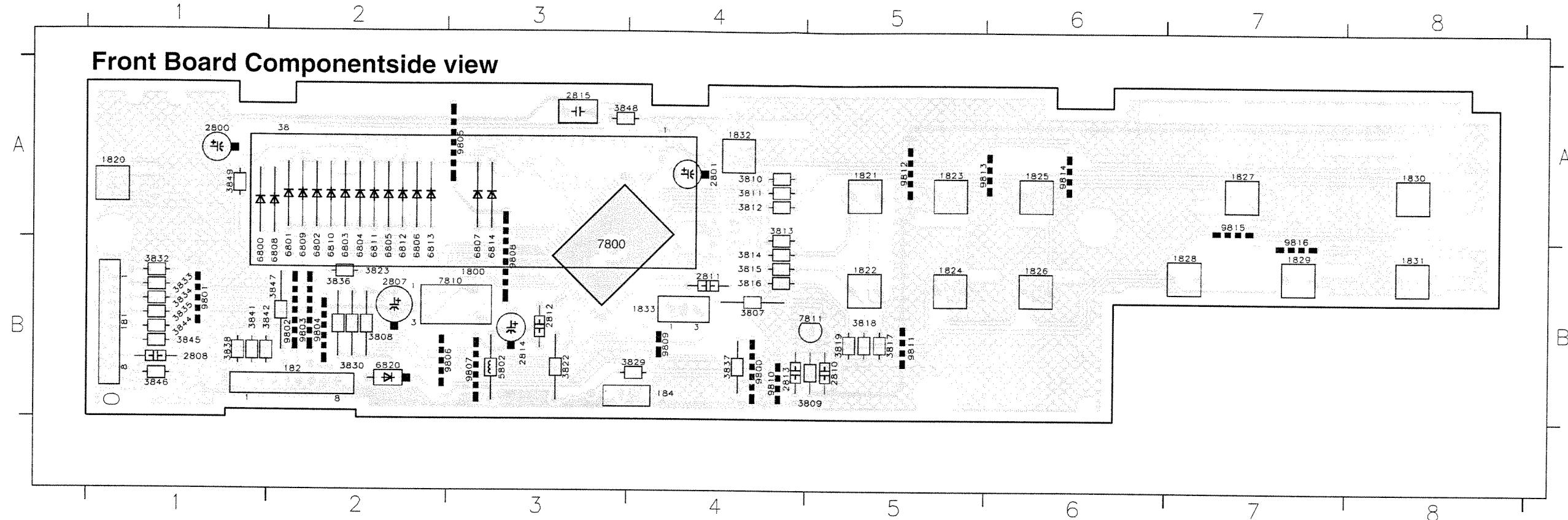
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1251 A4	B	2255 A3	B	2512 B2	B	2545 B4	B	3504 A4	B	3533 B4	B	3550 A4	B	6257 A2	B	7509 B1	B	9269 A2	B
1252 A1	B	2256 A1	B	2513 B2	B	3251 A1	B	3505 A3	B	3534 A3	B	3552 A4	B	6258 A1	B	7510 B1	B	9270 A3	B
1255 A1	B	2257 A1	B	2514 B1	B	3252 A1	B	3506 A3	B	3535 A3	B	3553 A4	B	6259 A2	B	7511 B4	B	9272 A4	B
1256 A1	B	2258 A2	B	2515 A3	B	3253 A1	B	3507 B2	B	3537 B2	B	3556 B4	B	6260 A3	B	9253 A1	B	9274 B4	B
1502 A4	B	2259 A2	B	2516 A4	B	3254 A2	B	3508 B2	B	3538 B3	B	3557 A1	B	6500 A2	B	9254 A2	B		
1503 B4	B	2501 A3	B	2521 B2	B	3255 A1	B	3509 B3	B	3540 B1	B	5801 B4	B	7250 A1	B	9256 A2	B		
1504 B1	B	2502 A3	B	2522 B3	B	3256 A2	B	3510 B3	B	3541 B2	B	5803 B4	B	7251 A3	B	9257 A2	B		
1505 B4	B	2503 A4	B	2523 A3	B	3257 A2	B	3511 B2	B	3542 B2	B	6250 A1	B	7252 A2	B	9258 A2	B		
1506 B1	B	2504 A3	B	2524 A4	B	3258 A2	B	3512 B2	B	3543 B1	B	6251 A1	B	7500 A3	B	9262 A3	B		
2250 A1	B	2505 A4	B	2527 B4	B	3260 A3	B	3513 B2	B	3544 B2	B	6253 A1	B	7501 A2	B	9263 A3	B		
2251 A2	B	2506 A4	B	2540 B4	B	3500 A3	B	3514 B2	B	3545 B1	B	6254 A2	B	7504 A2	B	9264 A3	B		
2252 A1	B	2507 A3	B	2541 A4	B	3501 A2	B	3515 A3	B	3547 B1	B	6255 A1	B	7505 B2	B	9265 A3	B		
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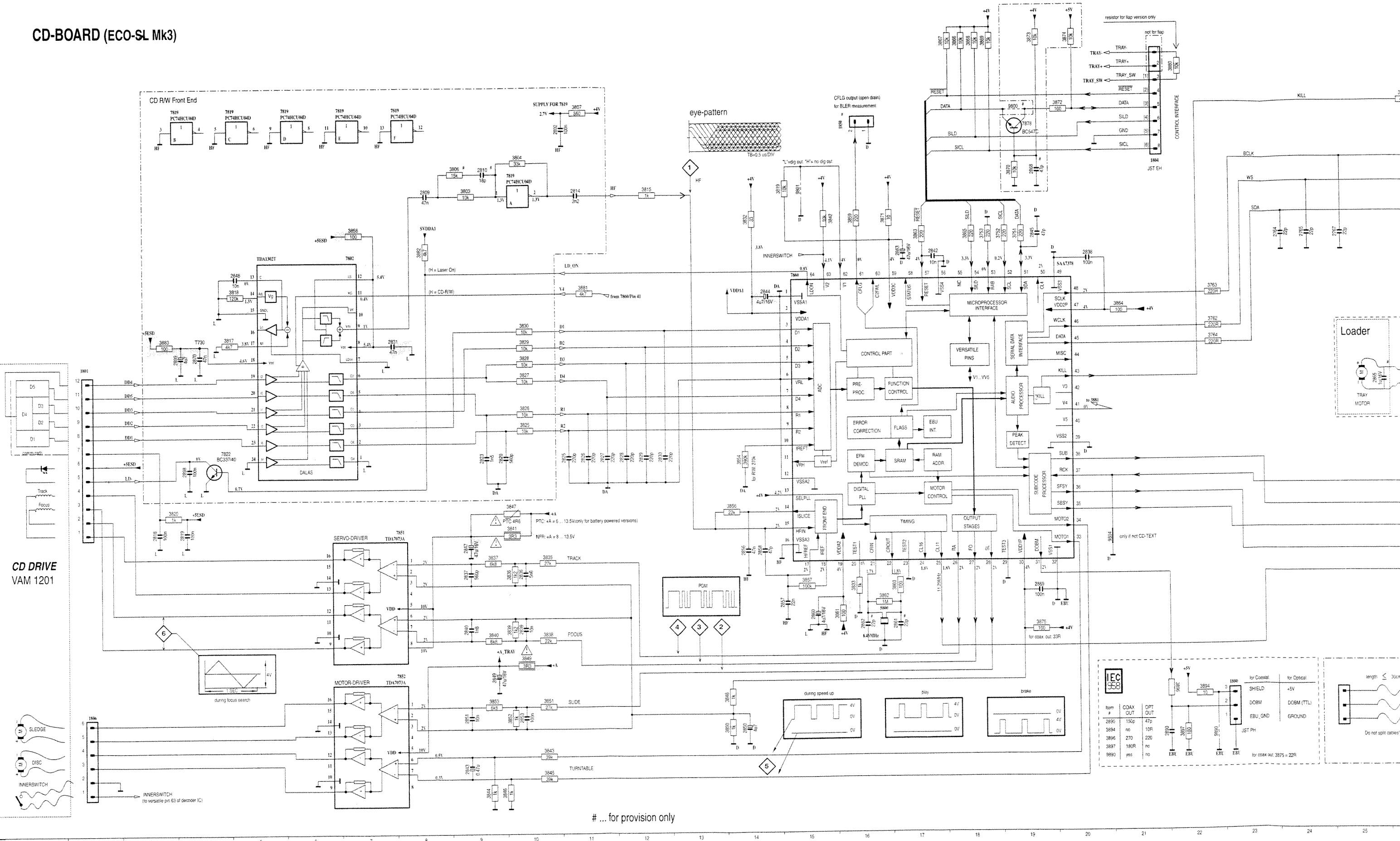


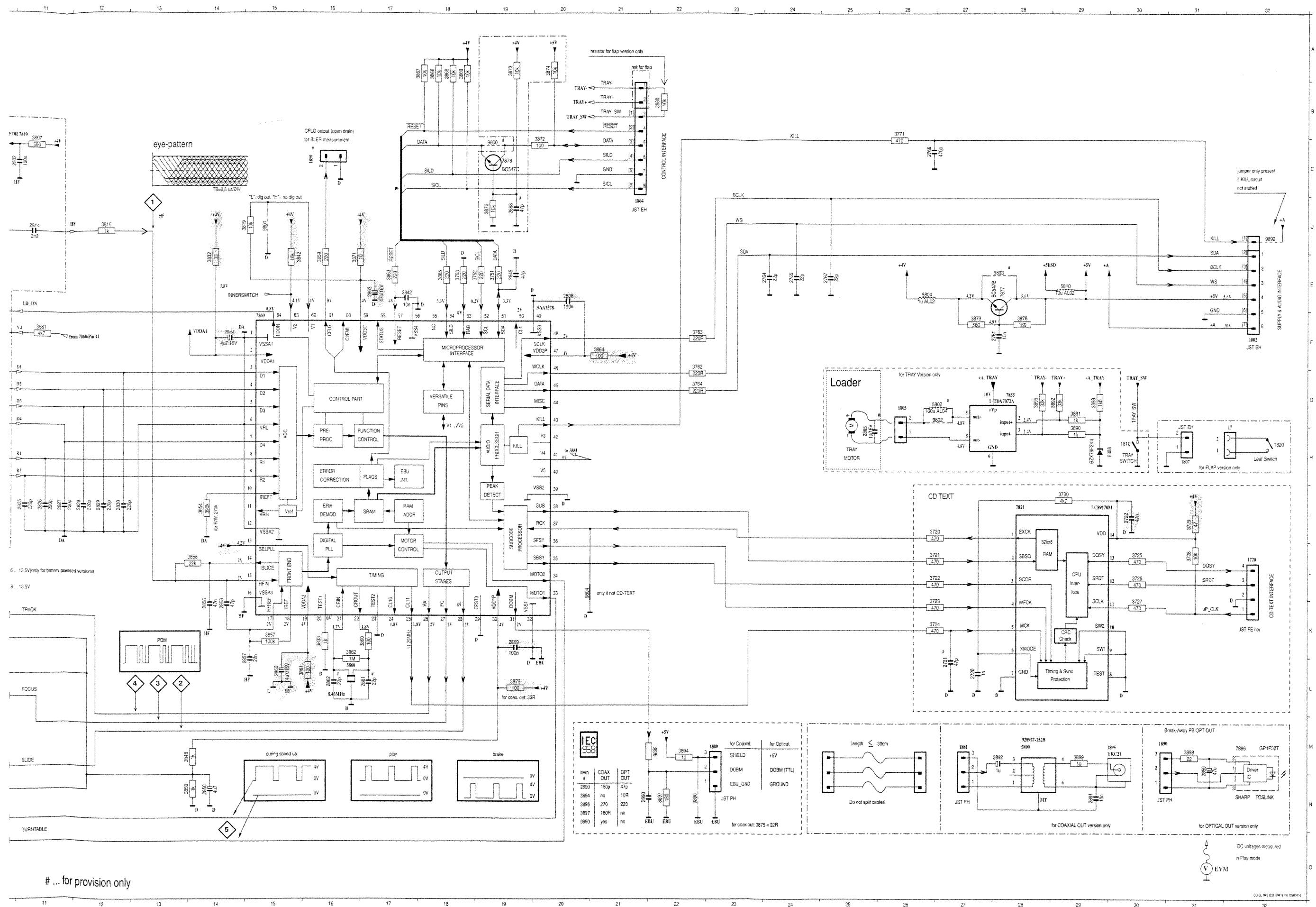


181 F1	F810 H2
182 H1	F811 H2
184 E1	F812 H2
1800 B9	F813 H2
1820 F1	F814 H2
1821 F11	F815 H2
1822 G11	F816 E2
1823 F12	F817 G6
1824 G12	F818 G8
1825 F12	F819 G8
1826 G12	F820 G9
1827 F13	F821 G9
1828 G11	F822 G10
1829 G12	F823 I7
1830 G13	F824 I8
1831 G12	F825 I8
1832 G13	F826 I2
1833 G7	F827 G7
2800 B5	
2801 B10	
2807 I8	
2808 G2	
2810 I7	
2811 H8	
2812 E3	
2813 I7	
2814 E3	
2815 D10	
2807 H8	
3808 H8	
3809 I7	
3810 E10	
3811 E10	
3812 E10	
3813 F10	
3814 F10	
3815 F10	
3816 F10	
3817 F11	
3818 G11	
3819 G11	
3822 F5	
3823 F5	
3829 E2	
3830 E2	
3832 F3	
3833 F3	
3834 F3	
3835 G3	
3836 E2	
3837 G9	
3838 H2	
3841 H2	
3842 H2	
3844 G3	
3845 G3	
3846 G3	
3847 D10	
3848 A10	
3849 A4	
5802 E3	
6800 C4	
6801 C4	
6802 C5	
6803 C5	
6804 C5	
6805 C6	
6806 C6	
6807 C7	
6808 C4	
6809 C5	
6810 C5	
6811 C6	
6812 C6	
6813 C6	
6814 C7	
6820 I2	
7800 D6	
7810 I9	
7811 I8	
9800 G9	
F800 F2	
F801 F2	
F802 F2	
F803 F2	
F804 F2	
F805 G2	
F806 G2	
F807 G2	
F808 H2	
F809 H2	

181 B1	1823 A5	1830 A8	2808 B1	3807 B4	3814 B4	3823 B2	3836 B2	3846 B1	6802 A2	6809 A2	7800 A3	9804 B2	9811 B5
182 B2	1824 B5	1831 B8	2810 B5	3808 B2	3815 B4	3829 B4	3837 B4	3847 B2	6803 A2	6810 A2	7810 B3	9805 A3	9812 A5
184 B3	1825 A6	1832 A4	2811 B4	3809 B5	3816 B4	3830 B2	3838 B1	3848 A3	6804 A2	6811 A2	7811 B5	9806 B2	9813 A6
1800 A3	1826 B6	1833 B4	2812 B3	3810 A4	3817 B5	3832 B1	3841 B1	3849 A1	6805 A2	6812 A2	9800 B4	9807 B3	9814 A6
1820 A1	1827 A7	2800 A1	2813 B4	3811 A4	3818 B5	3833 B1	3842 B1	5802 B3	6806 A2	6813 A2	9801 B1	9808 B3	9815 A7
1821 A5	1828 B7	2801 A4	2814 B3	3812 A4	3819 B5	3834 B1	3844 B1	6800 A1	6807 A3	6814 A3	9802 B2	9809 B4	9816 B7
1822 B5	1829 B7	2807 B2	2815 A3	3813 B4	3822 B3	3835 B1	3845 B1	6801 A2	6808 A2	6820 B2	9803 B2	9810 B4	



CD-BOARD (ECO-SL Mk3)


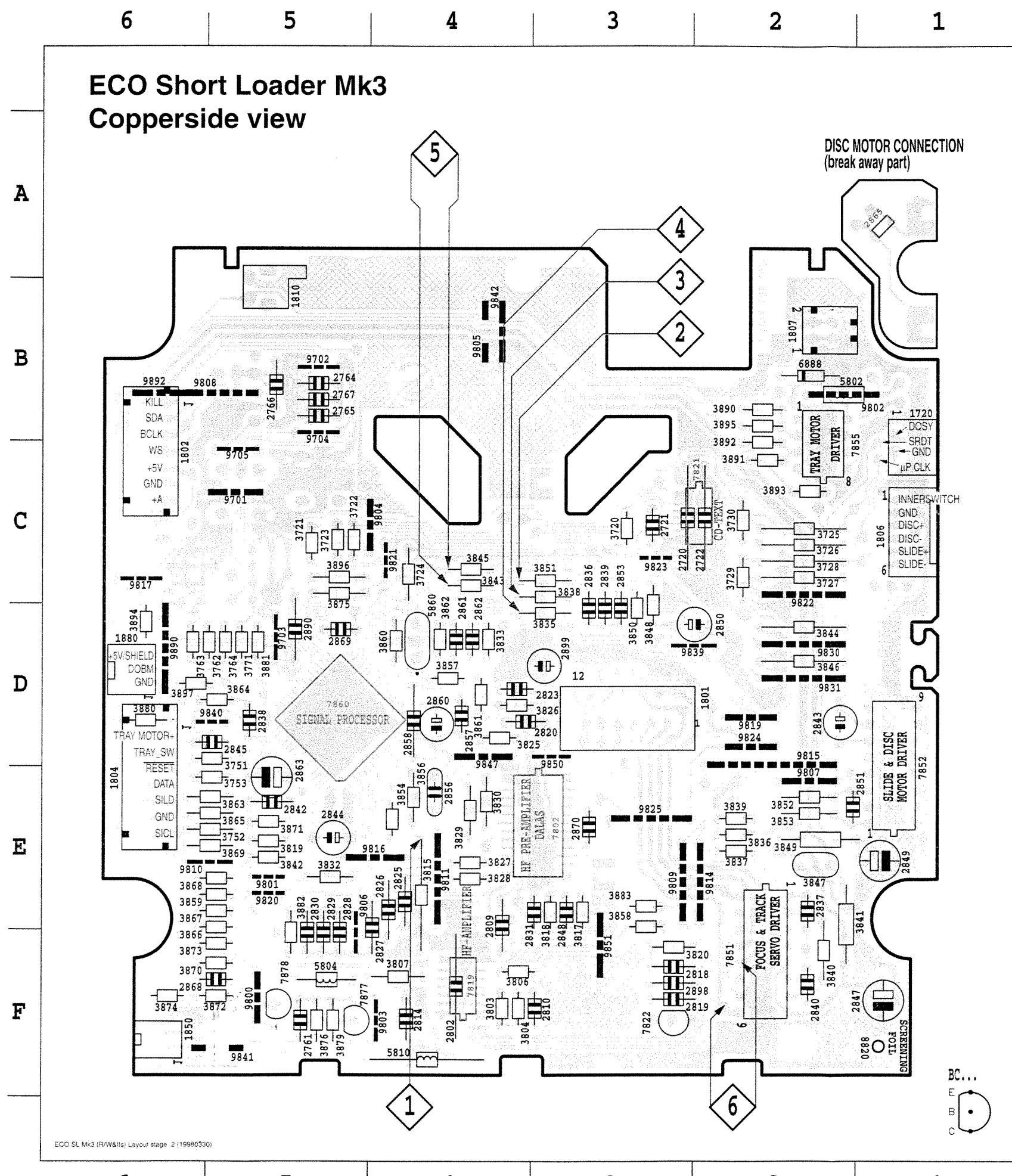


... for provision only

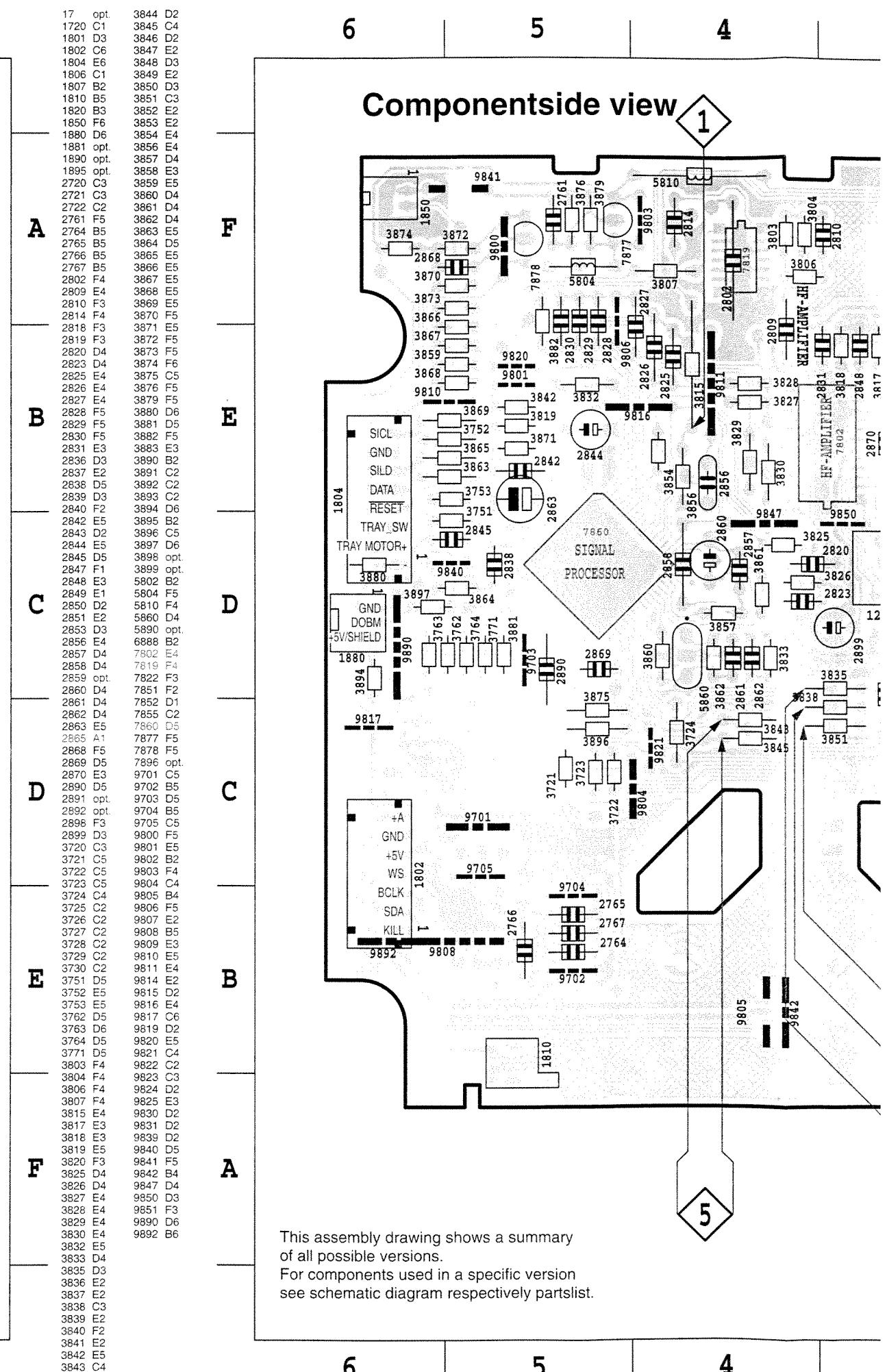
CO-SL1401-CDRW1 Rev 199616

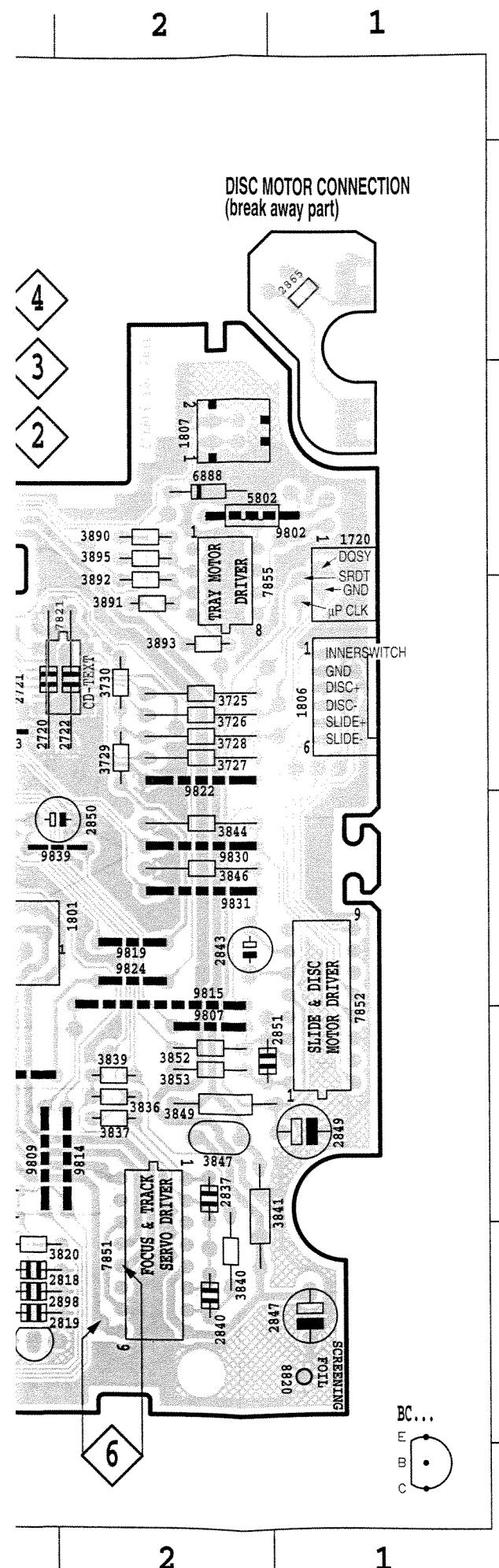
ECO Short Loader Mk3

Copperside view



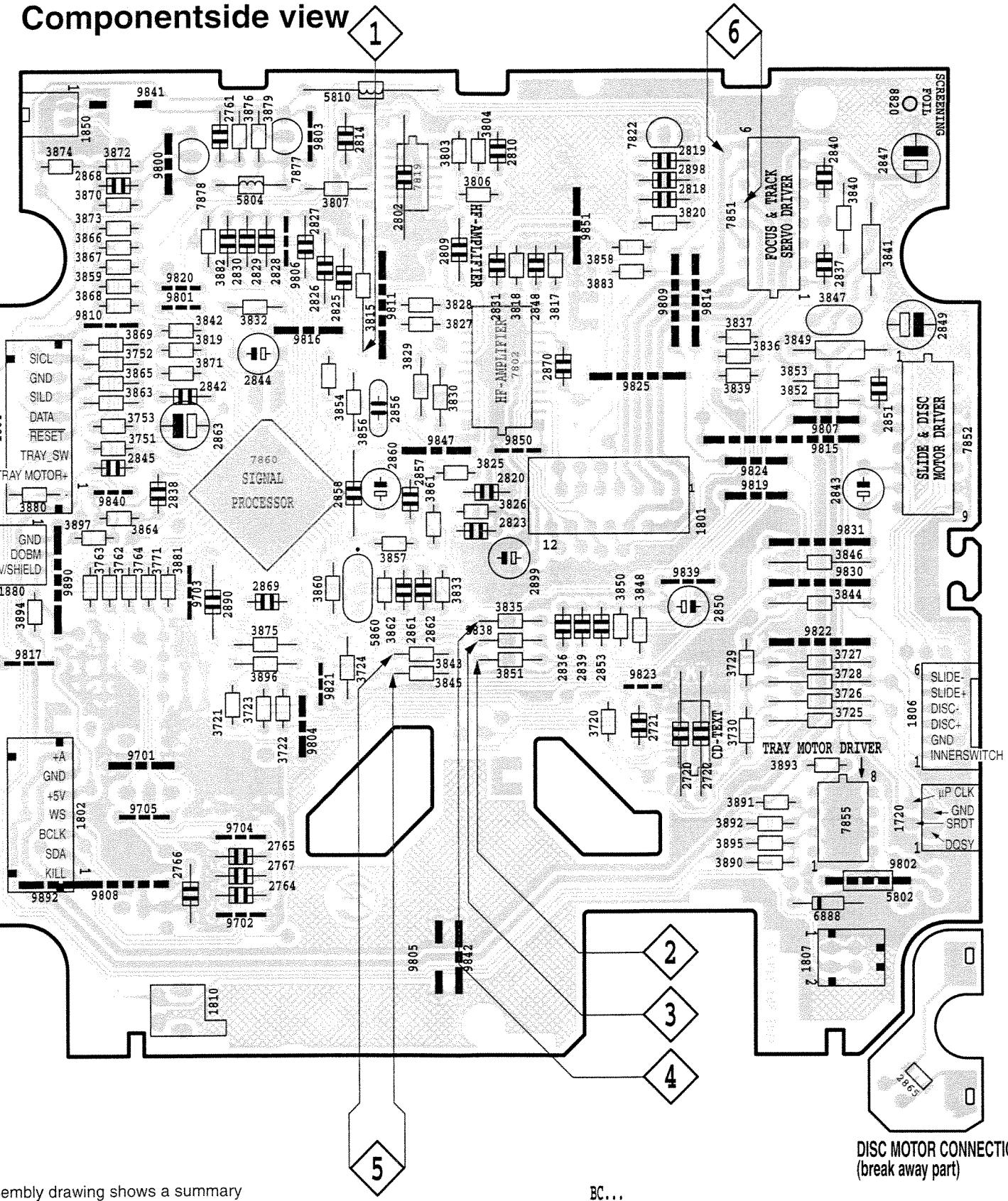
Componentside view





17 opt. 3844 D2
1720 C1 3845 C4
1801 D3 3846 D2
1802 C6 3847 E2
1804 E6 3848 D3
1806 C1 3849 E2
1807 B2 3850 D3
1810 B5 3851 C3
1820 B3 3852 E2
1850 F6 3853 E2
1880 D6 3854 E4
1881 opt. 3855 E4
1890 opt. 3856 E4
1895 opt. 3857 D4
2720 C3 3858 E3
2721 C3 3859 E5
2722 C2 3860 D4
2761 F5 3861 D4
2764 B5 3862 D4
2765 B5 3863 E5
2766 B5 3865 E5
2767 B5 3866 E5
2802 F4 3867 E5
2809 E4 3868 E5
2810 F3 3869 E5
2814 F4 3870 F5
2818 F3 3871 E5
2819 F3 3872 F5
2820 D4 3873 F5
2823 D4 3874 F6
2825 E4 3875 C5
2826 F5 3876 F5
2827 E4 3877 F5
2828 F5 3878 F5
2829 F5 3879 D5
2830 F5 3880 D6
2831 E3 3881 F5
2836 D3 3883 E3
2837 E2 3889 C2
2838 D5 3892 C2
2839 D3 3893 C2
2840 F2 3894 D6
2842 E5 3895 B2
2843 D2 3896 C5
2844 E5 3897 D6
2845 D5 3898 opt.
2847 F1 3899 C7
2848 E3 3900 B2
2849 E1 3904 F5
2850 D2 3908 F5
2851 E2 3910 F4
2853 D3 3911 F4
2856 E4 3912 F4
2857 D4 3913 F4
2858 D4 3914 F4
2859 opt. 3915 F4
2860 D4 3916 F4
2861 D4 3917 F2
2862 D4 3918 F2
2863 E5 3919 F2
2865 A1 3920 F5
2866 F5 3921 F5
2869 D5 3922 F5
2870 E3 3923 F5
2890 D5 3924 F5
2891 opt. 3925 F5
2892 opt. 3926 F5
2898 F3 3927 F5
2899 D3 3928 F5
3720 C3 3929 F5
3721 C5 3930 F5
3722 C5 3931 F5
3723 C5 3932 F5
3724 C4 3933 F5
3725 C2 3934 F5
3726 C2 3935 F5
3727 C2 3936 F5
3728 C2 3937 F5
3729 C2 3938 F5
3730 C2 3939 F5
3751 D5 3940 F5
3752 E5 3941 F5
3753 E5 3942 F5
3762 D5 3943 F5
3763 D6 3944 F5
3764 D5 3945 F5
3771 D5 3946 F5
3803 F4 3947 F5
3804 F4 3948 F5
3806 F4 3949 F5
3807 F4 3950 F5
3815 E4 3951 F5
3830 D2 3952 F5
3817 E3 3953 F5
3818 E3 3954 F5
3819 E5 3955 F5
3820 F3 3956 F5
3825 D4 3957 F5
3826 D4 3958 F5
3827 E4 3959 F5
3828 E4 3960 F5
3829 E4 3961 F5
3830 E4 3962 F5
3832 E5 3963 F5
3833 D4 3964 F5
3835 D3 3965 F5
3836 E2 3966 F5
3837 E2 3967 F5
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3840 F2 3970 F5
3841 E2 3971 F5
3842 E5 3972 F5
3843 C4 3973 F5

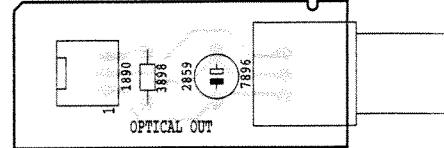
Componentside view



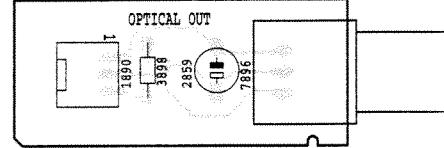
This assembly drawing shows a summary of all possible versions.
For components used in a specific version see schematic diagram respectively partslist.

ECO SL Mk3 (R/W&Ils) Layout stage .2 (19980330)

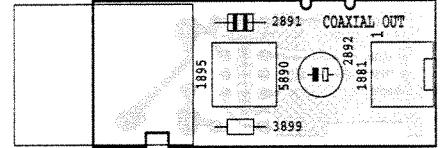
OPTIONAL
FOR SETS WITH OPTICAL OUT
Copperside view



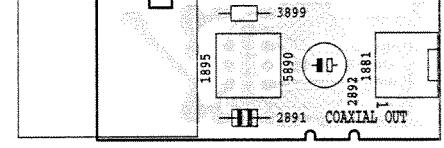
Componentside view



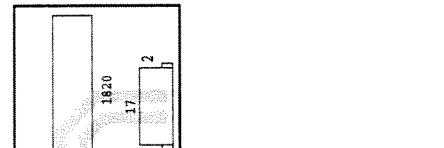
OPTIONAL
FOR SETS WITH COAXIAL OUT
Copperside view



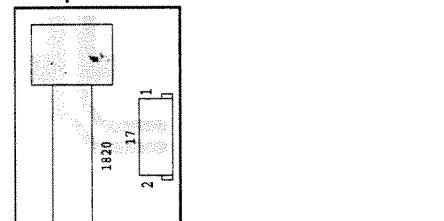
Componentside view

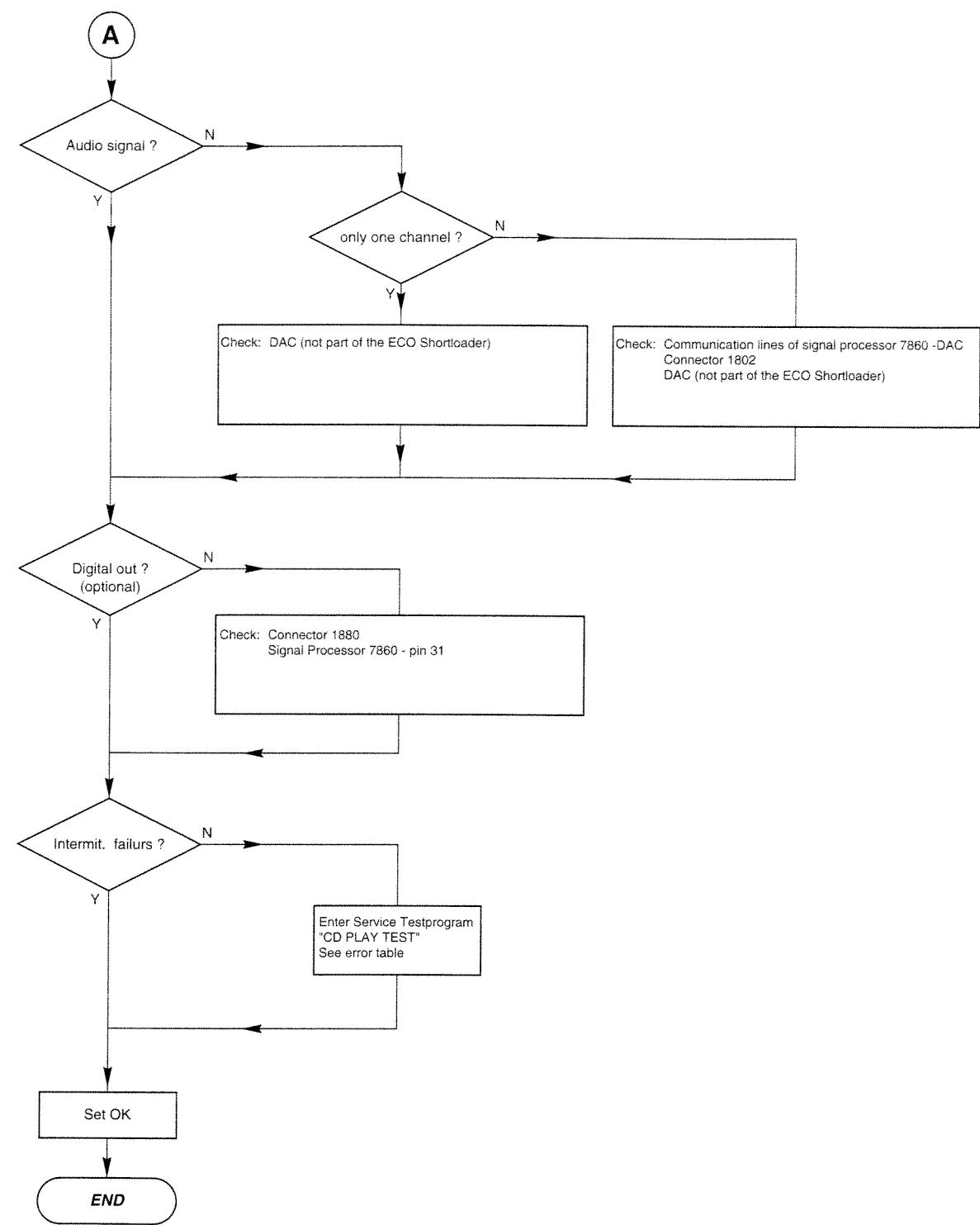
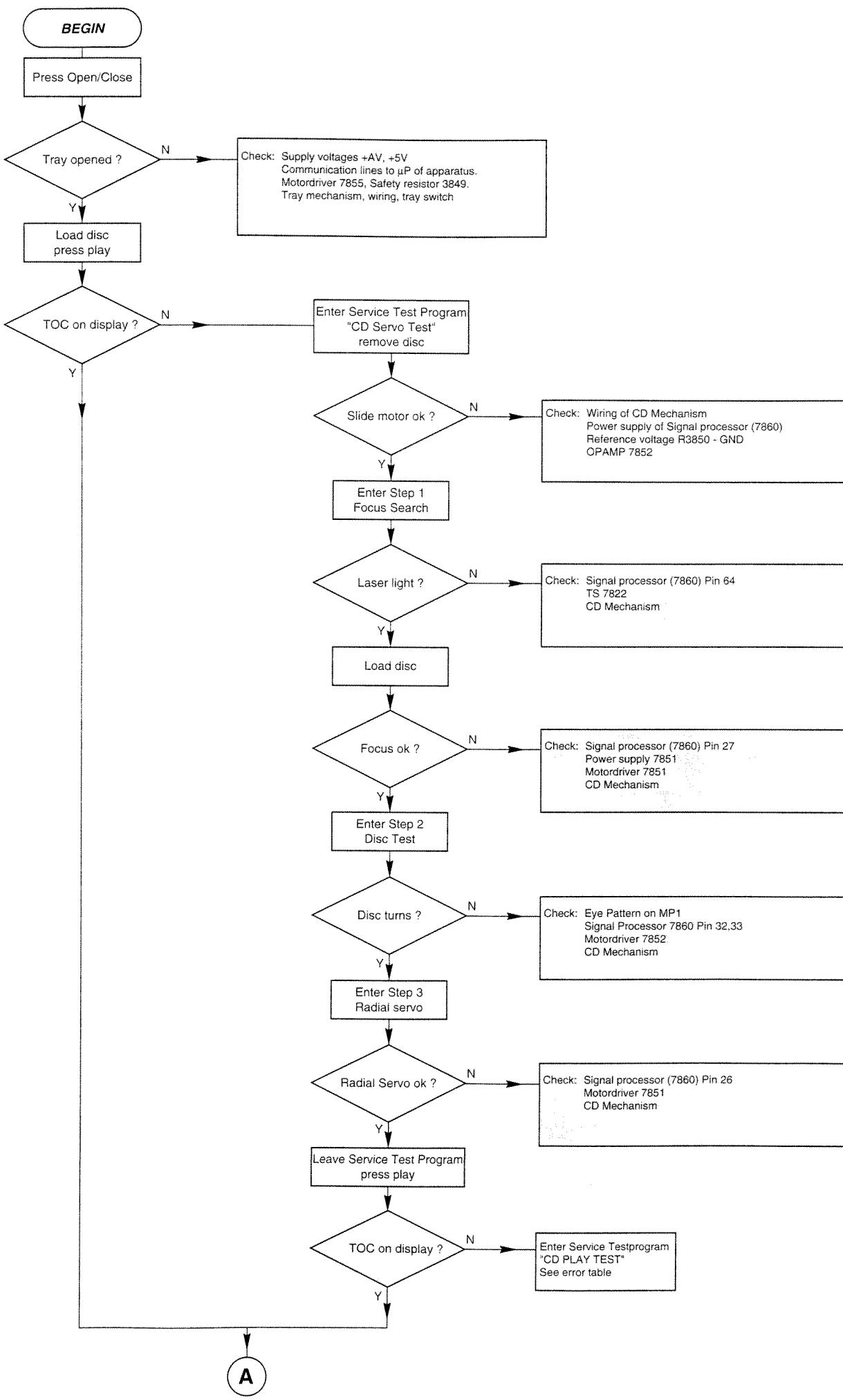


OPTIONAL
FOR FLAP LOADERS
Copperside view

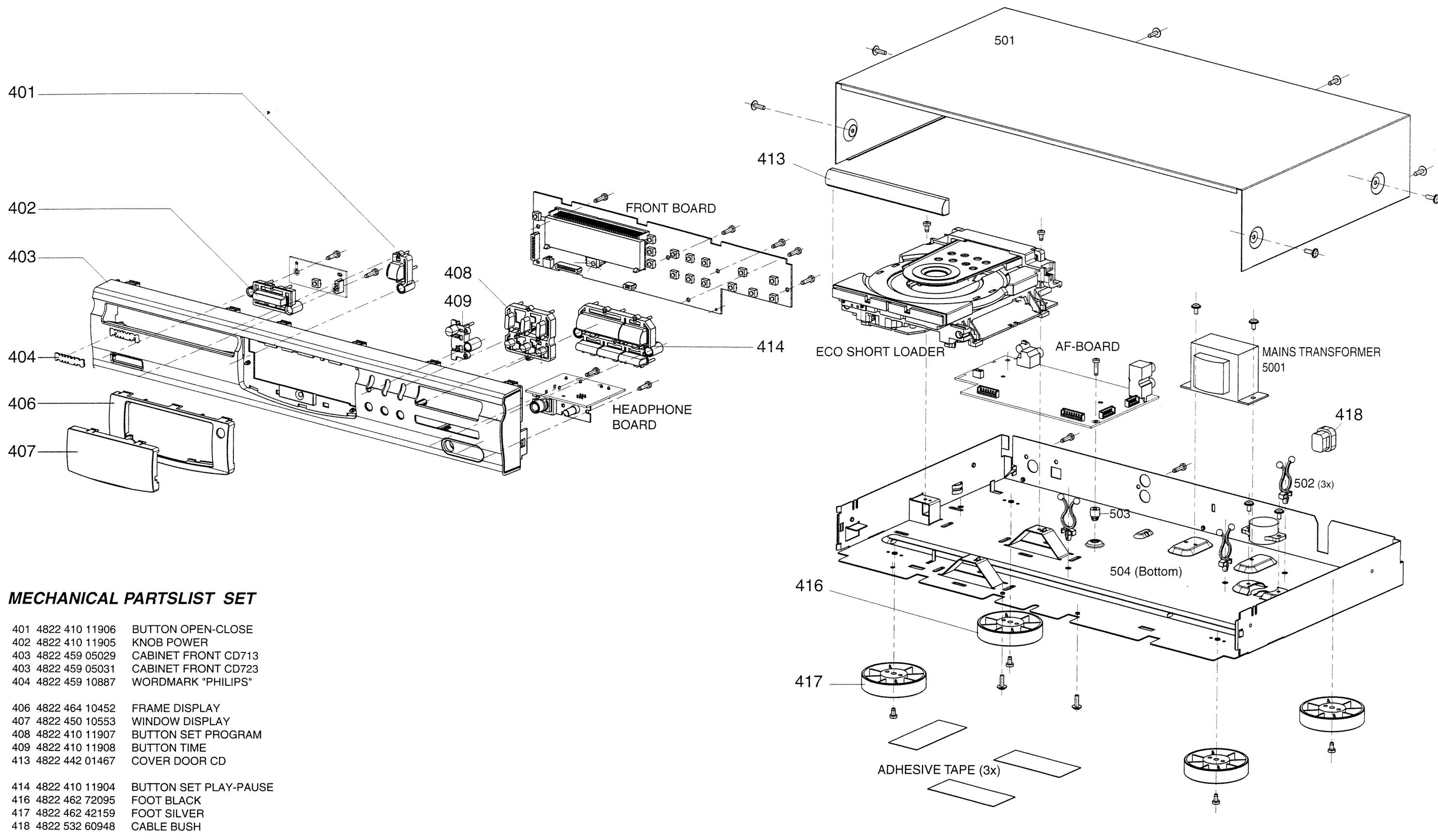


Componentside view



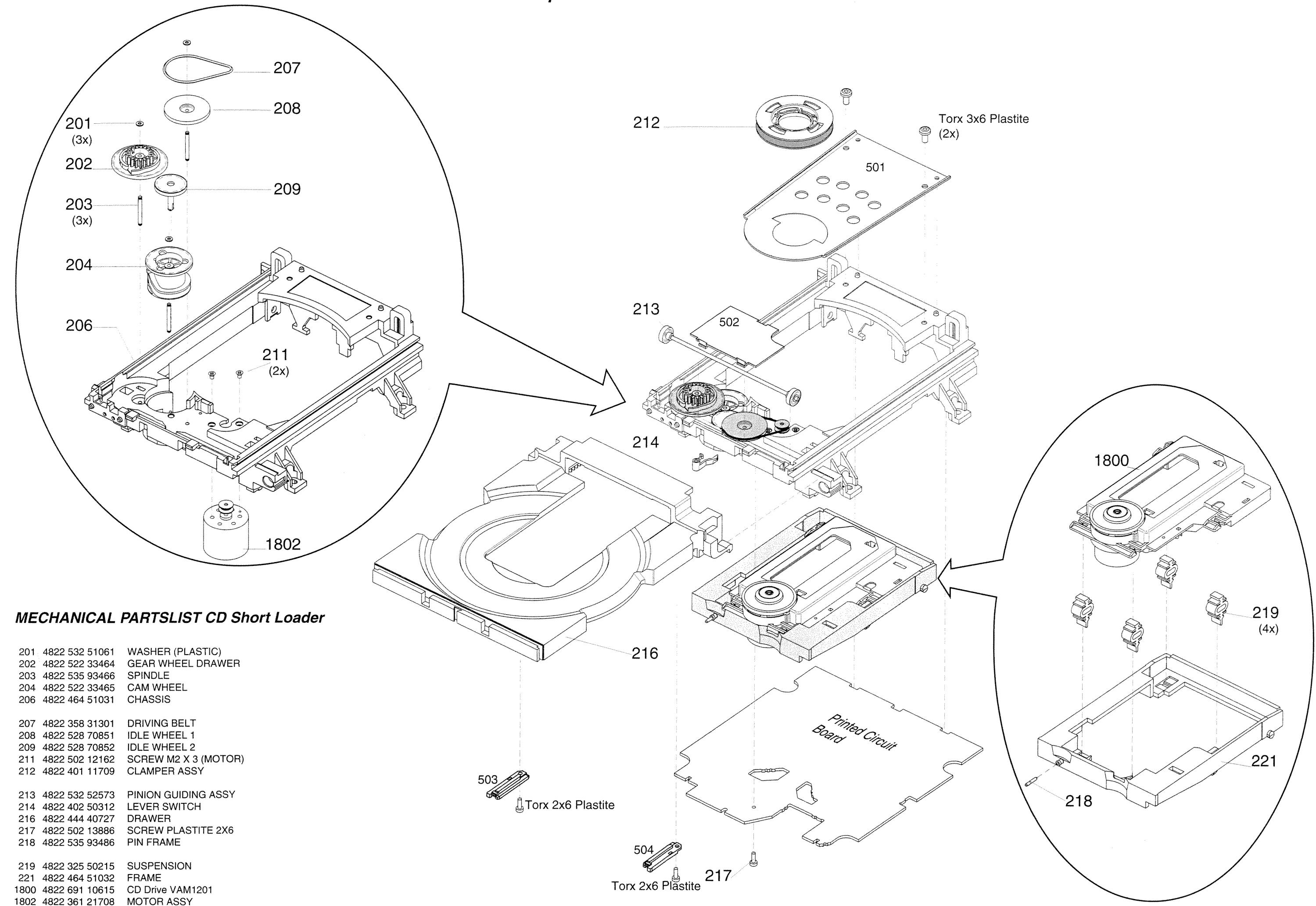


EXPLODED VIEW of SET



MECHANICAL PARTSLIST SET

401 4822 410 11906	BUTTON OPEN-CLOSE
402 4822 410 11905	KNOB POWER
403 4822 459 05029	CABINET FRONT CD713
403 4822 459 05031	CABINET FRONT CD723
404 4822 459 10887	WORDMARK "PHILIPS"
406 4822 464 10452	FRAME DISPLAY
407 4822 450 10553	WINDOW DISPLAY
408 4822 410 11907	BUTTON SET PROGRAM
409 4822 410 11908	BUTTON TIME
413 4822 442 01467	COVER DOOR CD
414 4822 410 11904	BUTTON SET PLAY-PAUSE
416 4822 462 72095	FOOT BLACK
417 4822 462 42159	FOOT SILVER
418 4822 532 60948	CABLE BUSH
5001 4822 146 11031	TRANSFORMER MAINS not for /01
5001 4822 146 11032	TRANSFORMER MAINS for /01 only
4822 219 10537	RC07104/01 (Remote Control)
4822 321 22832	CINCH-CABLE

Exploded view CD Short Loader

WARNING

CHARGED CAPACITORS ON THE SERVO BOARD MAY DAMAGE THE CDM-ELECTRONICS WHEN CONNECTING A NEW CDM MECHANISM. THAT'S WHY, BESIDES THE SAFETY MEASURES LIKE

- **SWITCH OFF POWER SUPPLY**
- **ESD PROTECTION**

ADDITIONAL ACTIONS MUST BE TAKEN BY THE REPAIR TECHNICIAN.

The following steps have to be done when replacing the CDM mechanism:

1. Disconnect old CDM flexfoil from printed board
2. Connect paperclip to CDM flexfoil to short-circuit flexfoil (fig.1)
3. Short-circuit printed board with **brass-sheet (4822 321 11197)** plugged into the flexfoil connector (fig.2)
4. Remove old CDM mechanism
5. Position new CDM mechanism in its studs
6. Remove short-circuit from printed board connector
7. Remove short-circuit from flexfoil of new CDM
8. Connect new flexfoil to print connector (fig.3)

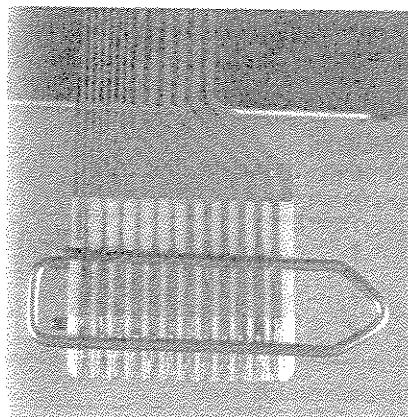


fig.1

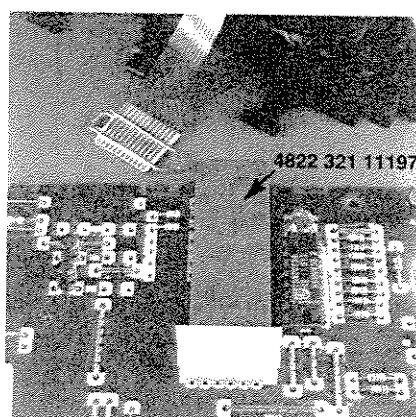


fig.2

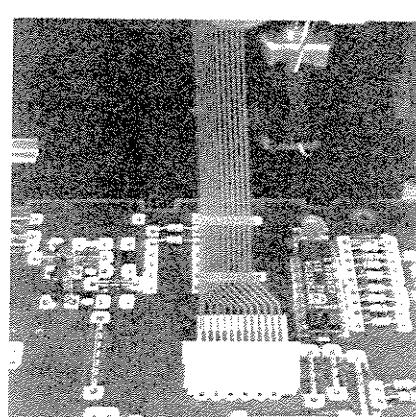
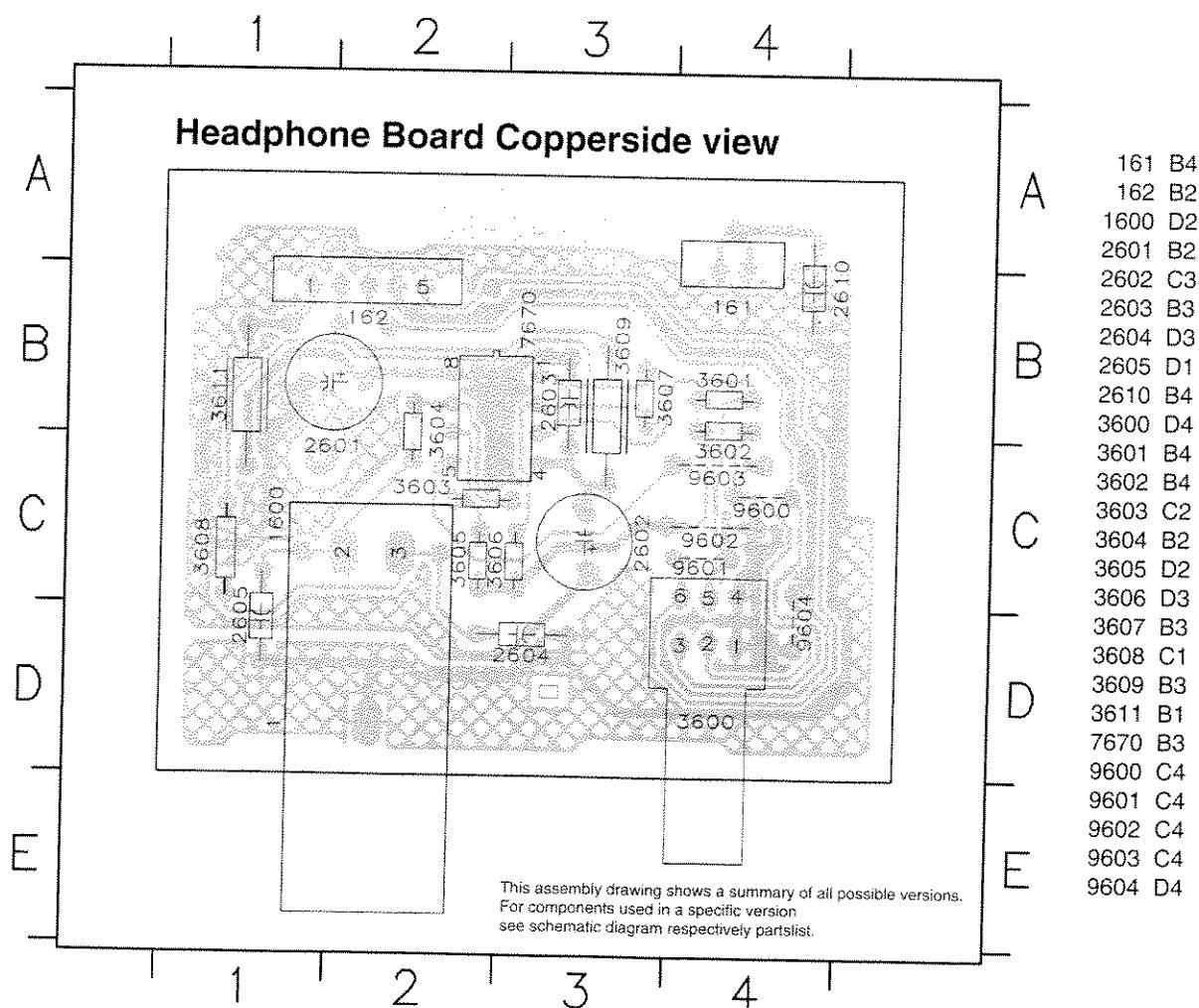
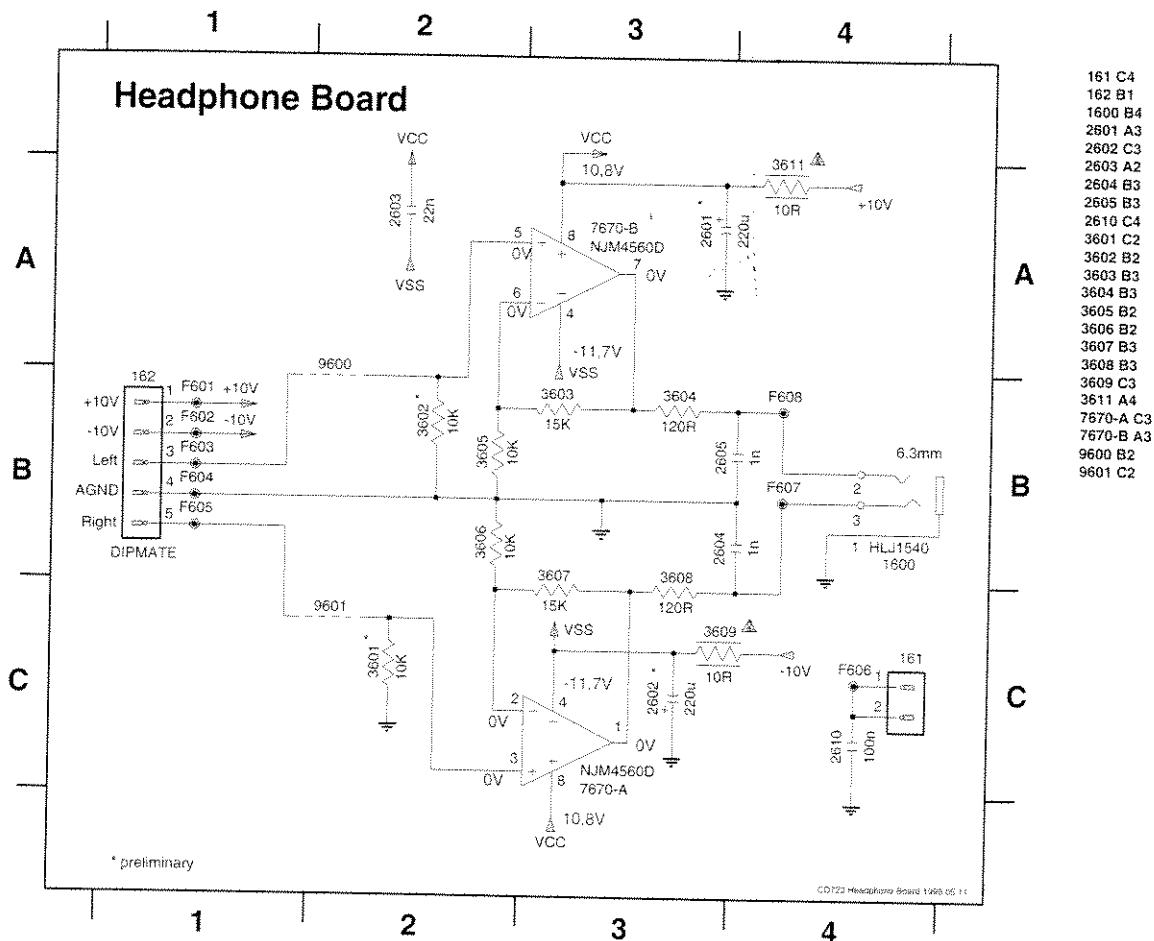


fig.3

Remarks



ELECTRICAL PARTSLIST CD BOARD

RESISTORS

3863	4822 116 83872	220Ω	5%	0,5W
3864	4822 116 52175	100Ω	5%	0,5W
3865	4822 116 83872	220Ω	5%	0,5W
3866	4822 116 83864	10kΩ	5%	0,5W
3867	4822 116 83864	10kΩ	5%	0,5W
3868	4822 116 83864	10kΩ	5%	0,5W
3869	4822 116 83864	10kΩ	5%	0,5W
3870	4822 116 83864	10kΩ	5%	0,5W
3871	4822 116 52176	10Ω	5%	0,5W
3872	4822 116 52175	100Ω	5%	0,5W
3873	4822 116 83864	10kΩ	5%	0,5W
3874	4822 116 83864	10kΩ	5%	0,5W
3875	4822 116 52191	33Ω	5%	0,5W
3876	4822 116 52213	180Ω	5%	0,5W
3879	4822 116 52226	560Ω	5%	0,5W
3881	4822 116 52283	4,7kΩ	5%	0,5W
3882	4822 116 52283	4,7kΩ	5%	0,5W
3883	4822 116 52175	100Ω	5%	0,5W
3890	4822 050 11002	1kΩ	5%	0,2W
3891	4822 050 11002	1kΩ	5%	0,2W
3892	4822 116 52271	33kΩ	5%	0,16W
3893	4822 116 52249	1,8kΩ	5%	0,16W
3895	4822 116 52271	33kΩ	5%	0,16W
3896	4822 116 83876	270Ω	5%	0,16W
3897	4822 116 52213	180Ω	5%	0,5W

COILS

5804	4822 157 53302	1μH
5810	4822 157 11517	10μH
5860	4822 242 10566	CRYSTAL 8.4672MHz

DIODES

6888	4822 130 80655	BZX79-F2V4
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TRANSISTORS

7822	4822 130 41344	BC337-40
7877	4822 130 40959	BC547B
7878	4822 130 44503	BC547C

INTEGRATED CIRCUITS

7802©	4822 209 12636	TDA1302T/N1
7819©	5322 209 11517	PC74HCU04T
7821	4822 209 16143	LC89170M
7851	4822 209 32852	TDA7073A/N2
7852	4822 209 32852	TDA7073A/N2

7855©	4822 209 31519	TDA7072A
7860©	4822 209 12752	SAA7378GP

ELECTRICAL PARTSLIST HEADPHONE BOARD

MISCELLANEOUS

1600	4822 267 31453	HEADPHONE SOCKET 6,3mm
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CAPACITORS

2603	4822 126 11585	22nF	20%	50V
2604	4822 122 33197	1nF	10%	50V
2605	4822 122 33197	1nF	10%	50V
2610	4822 126 12882	100nF	20%	50V

RESISTORS

3603	4822 116 52244	15kΩ	5%	0,5W
3604	4822 116 52206	120Ω	5%	0,5W
3605	4822 116 83864	10kΩ	5%	0,5W
3606	4822 116 83864	10kΩ	5%	0,5W
3607	4822 116 52244	15kΩ	5%	0,5W
3608	4822 116 52206	120Ω	5%	0,5W
3609	4822 052 10109	10Ω	5%	NFR
3611▲	4822 052 10109	10Ω	5%	NFR
3612	4822 116 83864	10kΩ	5%	0,5W

INTEGRATED CIRCUITS

7670	4822 209 83274	NJM4560D
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ELECTRICAL PARTSLIST SET

MISCELLANEOUS

5001▲	4822 146 11031	TRANSFORMER MAINS not for /01
5001▲	4822 146 11032	TRANSFORMER MAINS for /01 only
	4822 219 10537	RC07104/01 (Remote Control)
	4822 321 22832	CINCH-CABLE (THIN)

ELECTRICAL PARTSLIST FRONT BOARD**MISCELLANEOUS**

1800 4822 135 00233 DISPLAY
 1820 4822 276 13114 TACT SWITCH
 1821 4822 276 13114 TACT SWITCH
 1822 4822 276 13114 TACT SWITCH
 1823 4822 276 13114 TACT SWITCH

1824 4822 276 13114 TACT SWITCH
 1825 4822 276 13114 TACT SWITCH
 1826 4822 276 13114 TACT SWITCH
 1827 4822 276 13114 TACT SWITCH
 1828 4822 276 13114 TACT SWITCH

1829 4822 276 13114 TACT SWITCH
 1830 4822 276 13114 TACT SWITCH
 1831 4822 276 13114 TACT SWITCH
 1832 4822 276 13114 TACT SWITCH
 1840 4822 276 13114 TACT SWITCH

7810 4822 130 10165 GP1U28XP, IR EYE

CAPACITORS

2800	4822 124 22726	4,7µF	20%	35V
2801	4822 124 22726	4,7µF	20%	35V
2807	4822 124 81029	100µF	20%	25V
2808	4822 126 11585	22nF	20%	50V
2810	4822 121 51387	10nF	20%	16V
2811	4822 121 51387	10nF	20%	16V
2812	4822 126 12882	100nF	20%	50V
2813	4822 126 12882	100nF	20%	50V
2814	4822 124 40433	47µF	20%	25V
2815	4822 121 42408	220nF	5%	63V

RESISTORS

3807	4822 050 11002	1kΩ	5%	0,2W
3808	4822 116 52195	47Ω	5%	0,5W
3809	4822 116 52234	100kΩ	5%	0,5W
3810	4822 050 11002	1kΩ	5%	0,2W
3811	4822 050 11002	1kΩ	5%	0,2W
3812	4822 050 11002	1kΩ	5%	0,2W
3813	4822 050 11002	1kΩ	5%	0,2W
3814	4822 050 11002	1kΩ	5%	0,2W
3815	4822 050 11002	1kΩ	5%	0,2W
3816	4822 050 11002	1kΩ	5%	0,2W
3817	4822 116 52257	22kΩ	5%	0,5W
3818	4822 116 52257	22kΩ	5%	0,5W
3819	4822 116 52257	22kΩ	5%	0,5W
3820	4822 116 52182	15Ω	5%	0,5W
3821	4822 116 52182	15Ω	5%	0,5W
3822	4822 050 11002	1kΩ	5%	0,2W
3823	4822 050 11002	1kΩ	5%	0,2W
3829	4822 116 52257	22kΩ	5%	0,5W
3830	4822 116 52257	22kΩ	5%	0,5W
3832	4822 050 11002	1kΩ	5%	0,2W
3833	4822 050 11002	1kΩ	5%	0,2W
3834	4822 050 11002	1kΩ	5%	0,2W
3835	4822 050 11002	1kΩ	5%	0,2W
3836	4822 116 52257	22kΩ	5%	0,5W
3837	4822 116 83884	47kΩ	5%	0,16W
3838	4822 050 11002	1kΩ	5%	0,2W
3841	4822 050 11002	1kΩ	5%	0,2W
3842	4822 050 11002	1kΩ	5%	0,2W
3844	4822 050 11002	1kΩ	5%	0,2W
3845	4822 050 11002	1kΩ	5%	0,2W

RESISTORS

3846	4822 050 11002	1kΩ	5%	0,2W
3847	4822 116 52175	100Ω	5%	0,5W
3848	4822 116 52182	15Ω	5%	0,5W
3849	4822 116 52182	15Ω	5%	0,5W

COILS

1833	4822 242 72066	CERAMIC FILTER 8,0MHz		
5801	4822 156 31058	FILTER DIGITAL OUT		
5802	4822 156 21721	2,2µH		

DIODES

6800	4822 130 30621	1N4148
6801	4822 130 30621	1N4148
6804	4822 130 30621	1N4148
6805	4822 130 30621	1N4148
6806	4822 130 30621	1N4148

6807	4822 130 30621	1N4148
6808	4822 130 30621	1N4148
6809	4822 130 30621	1N4148
6811	4822 130 30621	1N4148
6812	4822 130 30621	1N4148
6813	4822 130 30621	1N4148
6814	4822 130 30621	1N4148
6820	4822 130 31878	1N4003G

TRANSISTORS

7811	4822 130 40959	BC547B
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INTEGRATED CIRCUITS

7800©	4822 209 16738	TMP87CM71-83770 MICROPROCESSOR
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