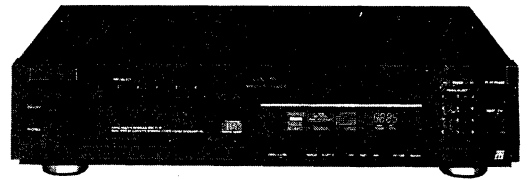


Service
Service
Service



44 505 A11

The remote control is available under codenumber 4822 218 10234

Service Manual

COMPACT
disc
DIGITAL AUDIO

CONTENTS

- 1 Contents and Control Buttons
- 2 Technical data
- 3 Servicing hints, loading and cabinet parts
- 4 Electrical measurements and adjustments
- 5 Block diagram, wiring diagram, circuit diagrams, panel data
- 6 Electrical partslist

(GB)

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

(NL)

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

(F)

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

(D)

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

(I)

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

CLASS 1
LASER PRODUCT

3122 110 03420

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



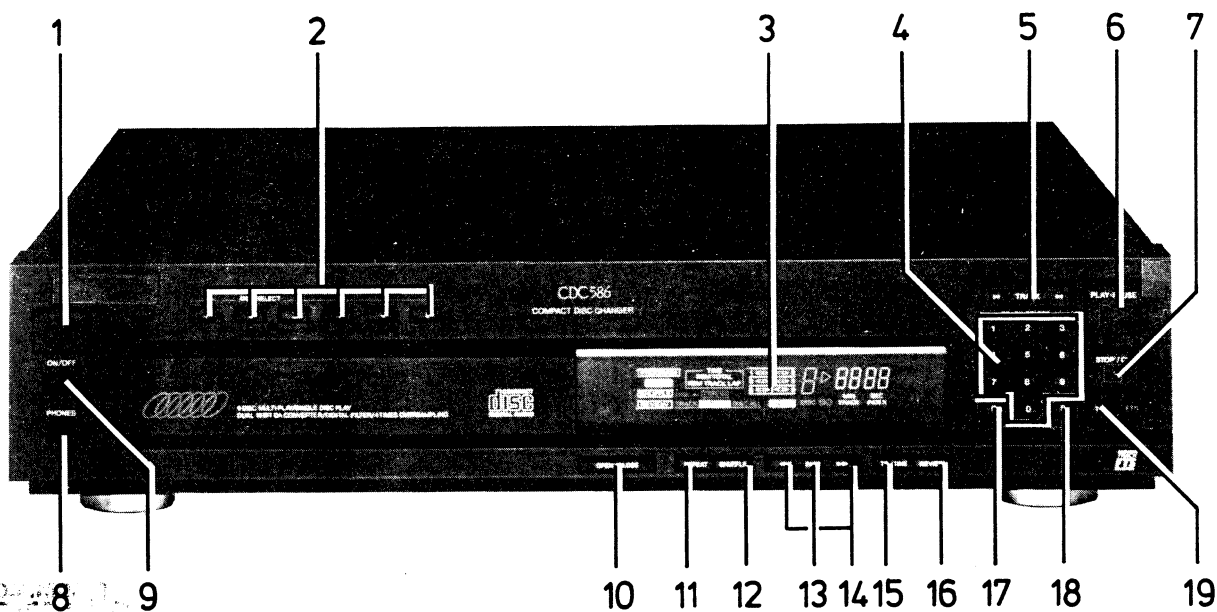
"Pour votre sécurité, ces documents doivent être utilisés par des spécialistes agréés, seuls habilités à réparer votre appareil en panne".

Subject to modification
4822 725 22292
Printed in The Netherlands
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PHILIPS

Published by
Service Consumer Electronics

CS, 19 919



44 388 A11

Front of player

- 1 Power ON/OFF
- 2 Disc select
- 3 Display
- 4 1 - 0 digit
- 5 ◀ prev. TRACK next ▶
- 6 Play/Pause
- 7 Stop/CM
- 8 IR eye
- 9 Phones
- 10 Open/Close
- 11 Repeat
- 12 Shuffle
- 13 Fast-Search
- 14 ◀◀ SEARCH ▶▶ keys
- 15 Track/Time
- 16 Review
- 17 Clear
- 18 Store
- 19 FTS

Rear of player

- a RC 5
- c Analogue out

TECHNICAL DATA**Typical Audio Performance**

- Number of Channels : 2
- Frequency Range : 20-20 000 Hz
- Output resistance : 200 Ω
- Amplitude Linearity : $\pm 0,1$ dB (20-20 000 Hz)
- Dynamic Range : 90 dB (20-20 000 Hz)
- Signal-to-Noise Ratio : 96 dB (20-20 000 Hz)
- Channel Separation : 93 dB (20-20 000 Hz)
- Total Harmonic Distortion: min - 90 dB (20-20 000 Hz)
- Wow and Flutter : quartz crystal precision
- Error Correction System : Cross Interleaved Reed Solomon Code (CIRC)
- Audio Output Level : $2 V_{rms} \pm 2$ dB
- Unbalance left right : max. ± 0.2 dB
- Phase non-linearity : max. $\pm 1.0^\circ$ (20-2000Hz)
- Automatic switched de-emphasis : (15/50 μ S)

Optical Readout System

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

Signal Format

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

Headphone

1. Output voltage : Max. $2 V_{rms} \pm 2$ dB
2. Unbalance Left-Right : Max. +/- 0.5 dB
3. Output resistance : 150 Ω
4. Load impedance range : 32 Ω to 600 Ω
5. Output power : Max. 6 mW into 32 Ω load
Max. 10 mW into 150 Ω load
Max. 6 mW into 600 Ω load
6. Amplitude linearity : Max. +/- 0.1 dB from 20 Hz to 20 KHz into 600 Ω
7. Phase non-linearity : Max. +/- 1° from 20 Hz to 20 KHz into 600 Ω
8. Signal to noise ratio : min 90 dB from 20 Hz to 20 KHz into 600 Ω
9. Dynamic range : min 90 dB from 20 Hz to 20 KHz into 600 Ω
10. Total harmonic distortion + noise : Max. 0.005% (min-90 dB) from 20 Hz to 20 KHz into 600 Ω
11. Intermodulation distortion : Max. 0.005% (min-90 dB) from 20 Hz to 20 KHz
12. Channel separation : min 65 dB from 20 Hz to 20 KHz into 600 Ω

Digital output

- Output level : 0.5 V (peak to peak) +/- 20% into 75 Ω load
- DC-output : +/- 0.05 V maximum

Power Supply

- Mains Voltage : see type plate at rear of player
- Mains Frequencies : 50 and 60 Hz
- Power Consumption : 20 W approx.
- Safety Requirements : IEC

Cabinet, general

- Dimensions (w x h x d) : 420 x 113 x 340 mm
- Weight : 6.5 kg approx.

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.

SERVICING HINTS

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

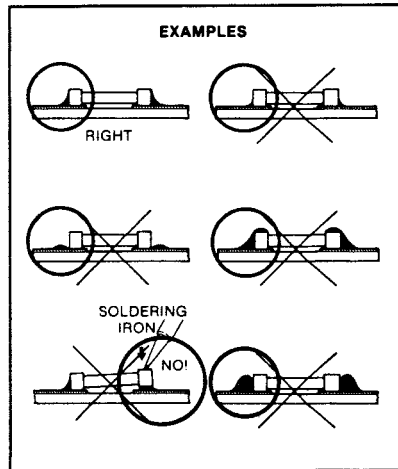
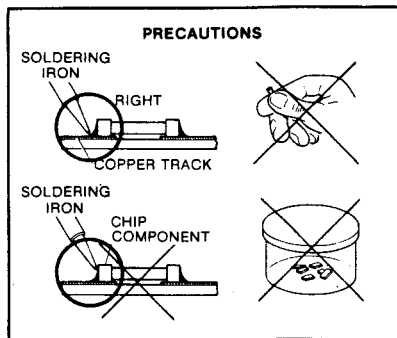
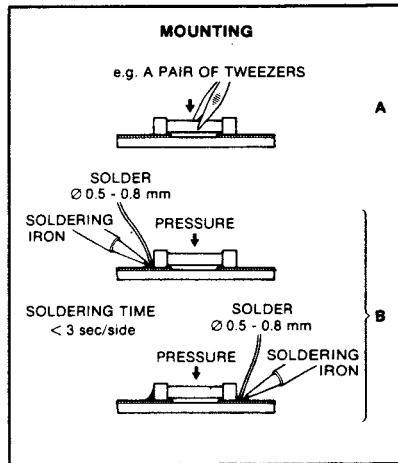
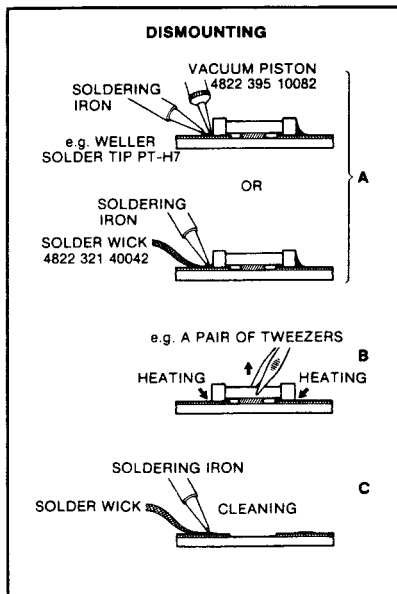
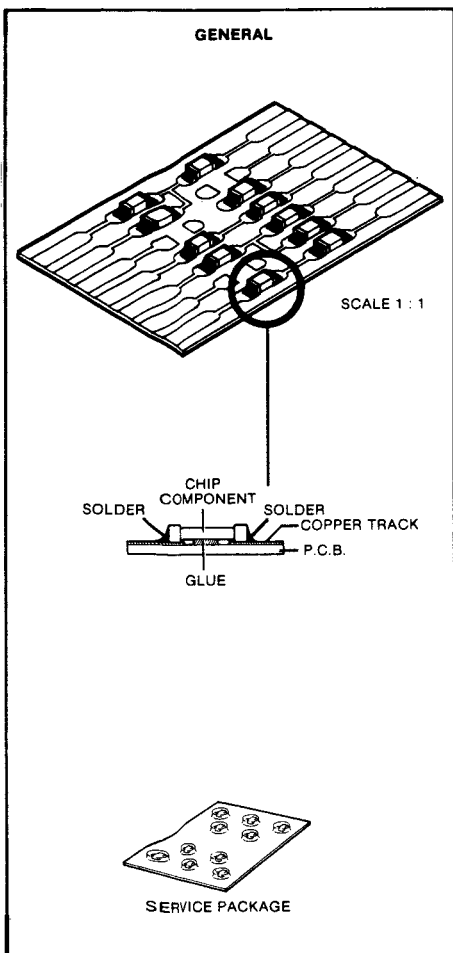
The disc should always rest properly on the turntable.
To achieve this a disc hold-down has been mounted in a bracket of the tray mechanism.

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

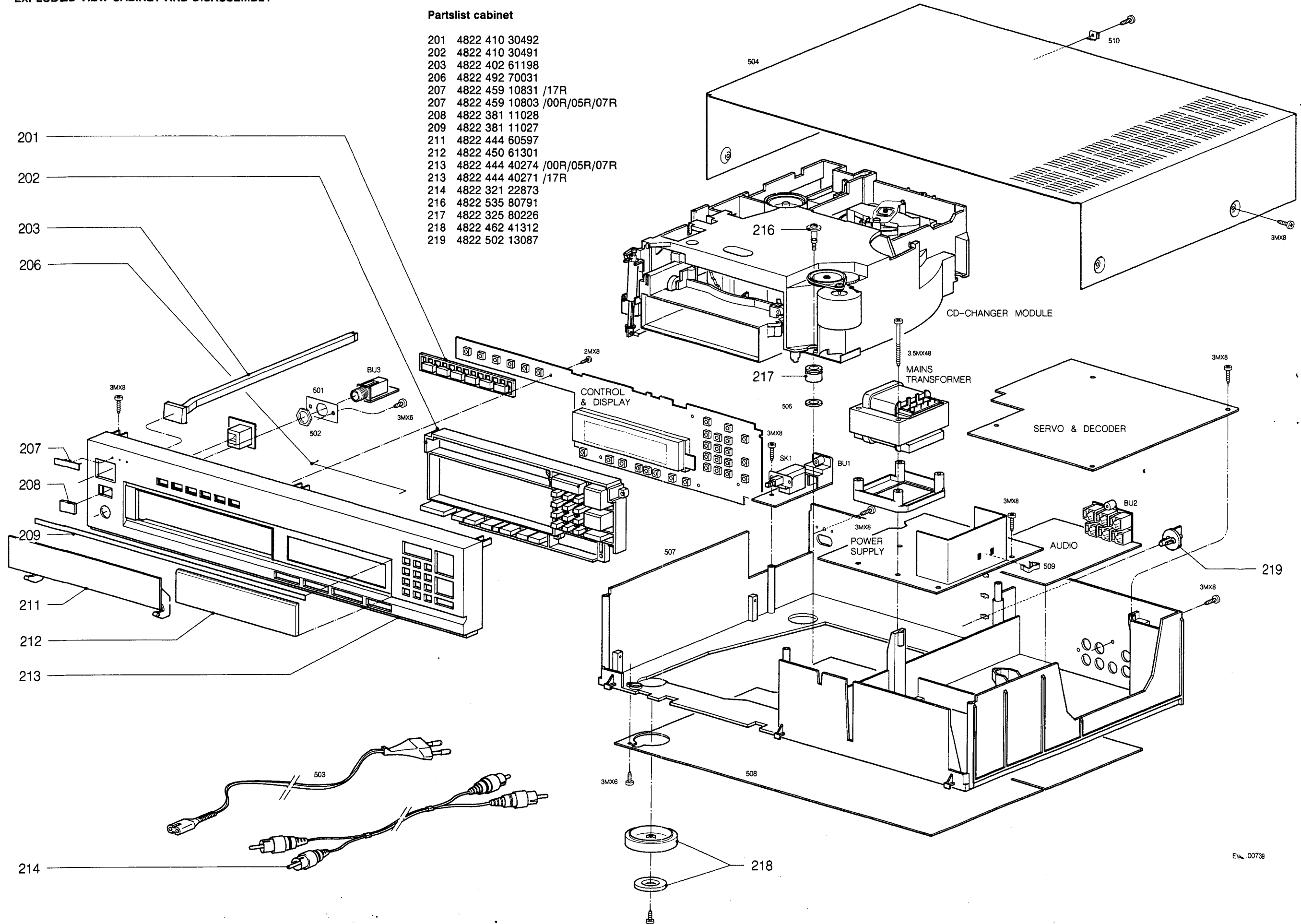
| | |
|---|----------------|
| Disc without errors (5)+ disc with DO errors, black spots and fingerprints (5A) | 4822 397 30096 |
| Disc 65 min 1kHz without pause | 4822 397 30155 |
| Torx screwdrivers | |
| Set (straight) | 4822 395 50145 |
| Set (square) | 4822 395 50132 |
| 13th order filter | 4822 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 |
| Audio signals disc 1 | 4822 397 30185 |



EXPLODED VIEW CABINET AND DISASSEMBLY

Partlist cabinet

- 201 4822 410 30492
- 202 4822 410 30491
- 203 4822 402 61198
- 206 4822 492 70031
- 207 4822 459 10831 /17R
- 207 4822 459 10803 /00R/05R/07R
- 208 4822 381 11028
- 209 4822 381 11027
- 211 4822 444 60597
- 212 4822 450 61301
- 213 4822 444 40274 /00R/05R/07R
- 213 4822 444 40271 /17R
- 214 4822 321 22873
- 216 4822 535 80791
- 217 4822 325 80226
- 218 4822 462 41312
- 219 4822 502 13087



EWL 00739

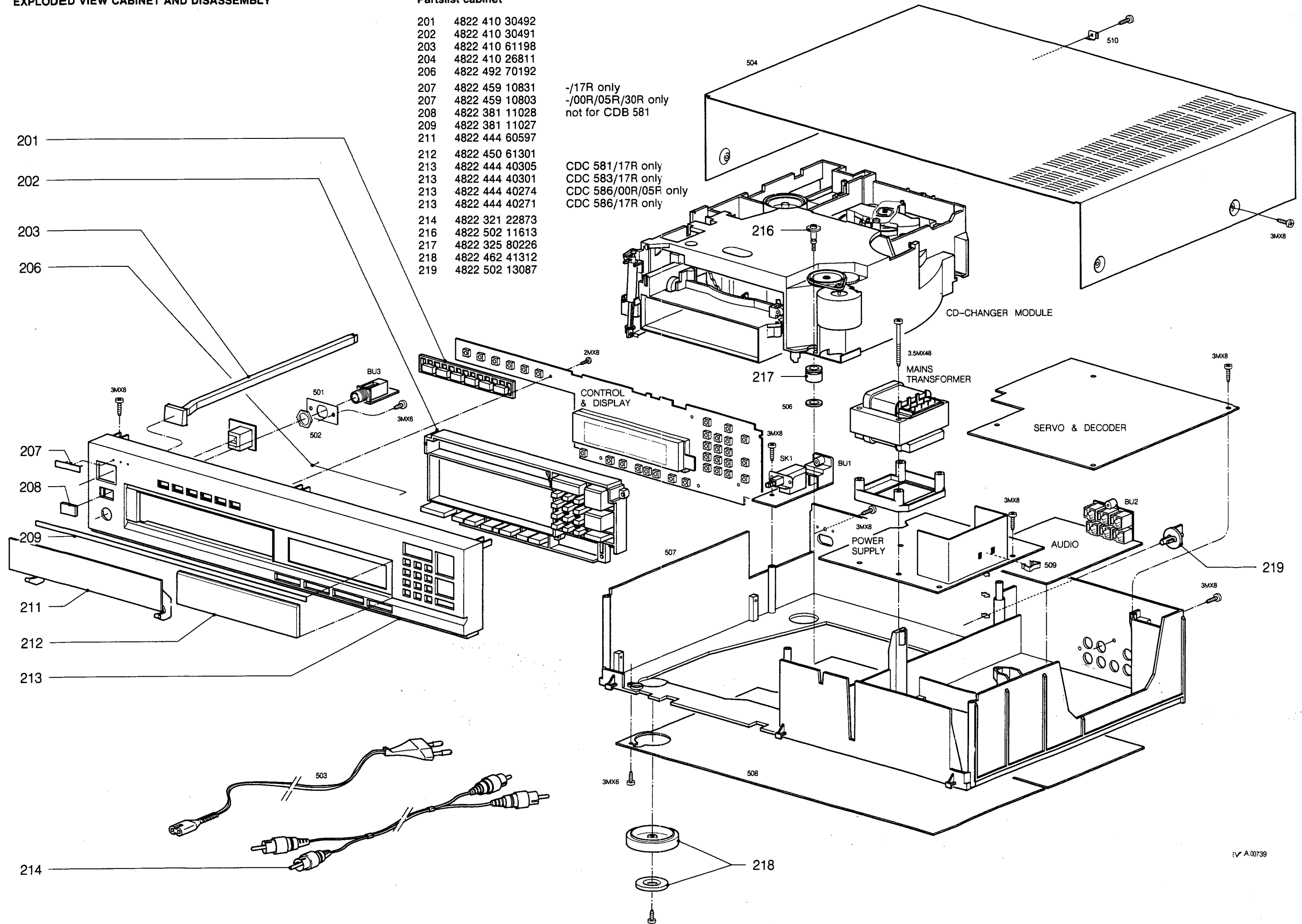
EXPLODED VIEW CABINET AND DISASSEMBLY

Partlist cabinet

| | |
|-----|----------------|
| 201 | 4822 410 30492 |
| 202 | 4822 410 30491 |
| 203 | 4822 410 61198 |
| 204 | 4822 410 26811 |
| 206 | 4822 492 70192 |
| 207 | 4822 459 10831 |
| 207 | 4822 459 10803 |
| 208 | 4822 381 11028 |
| 209 | 4822 381 11027 |
| 211 | 4822 444 60597 |
| 212 | 4822 450 61301 |
| 213 | 4822 444 40305 |
| 213 | 4822 444 40301 |
| 213 | 4822 444 40274 |
| 213 | 4822 444 40271 |
| 214 | 4822 321 22873 |
| 216 | 4822 502 11613 |
| 217 | 4822 325 80226 |
| 218 | 4822 462 41312 |
| 219 | 4822 502 13087 |

-/17R only
 -/00R/05R/30R only
 not for CDB 581

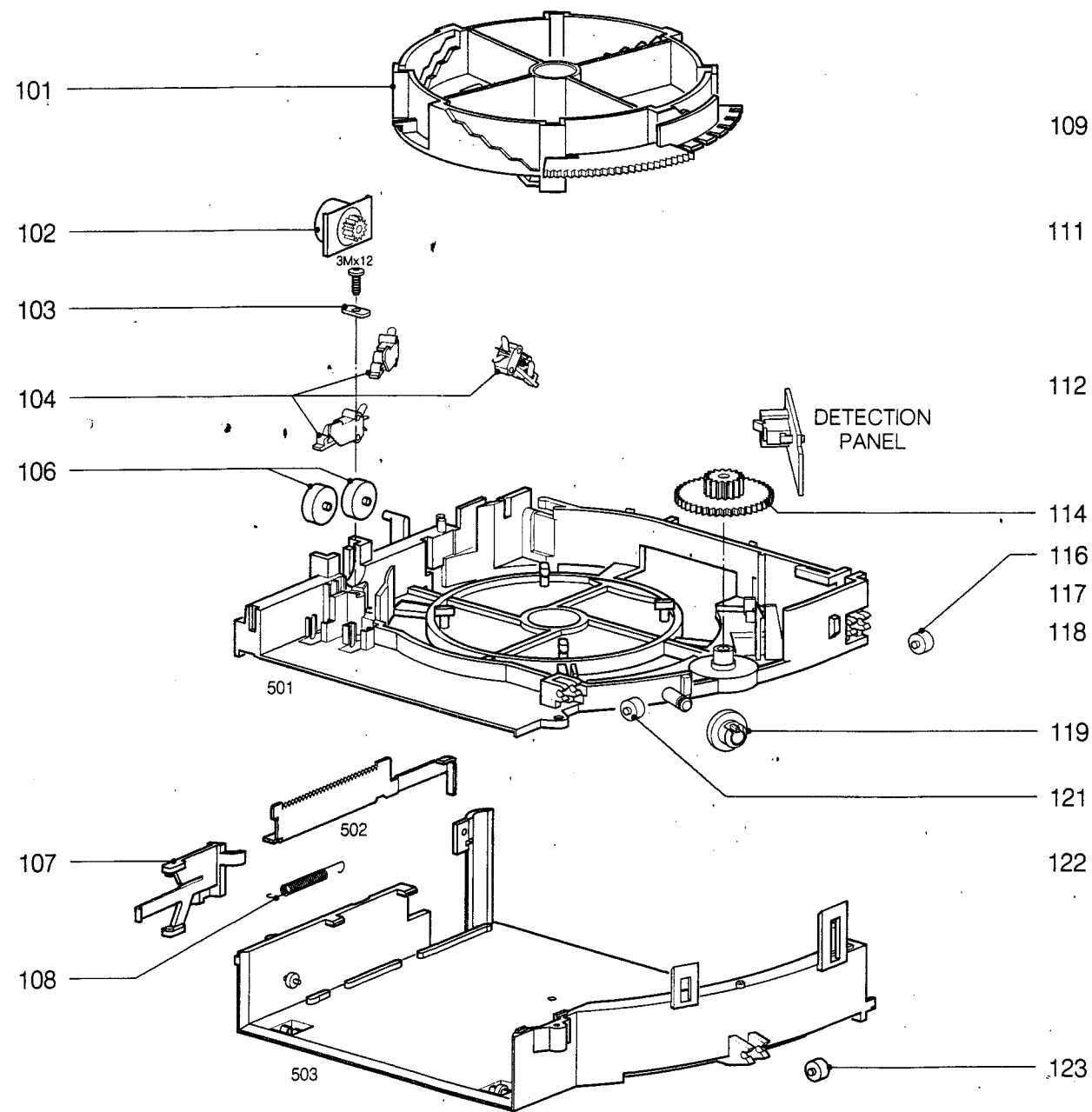
CDC 581/17R only
 CDC 583/17R only
 CDC 586/00R/05R only
 CDC 586/17R only



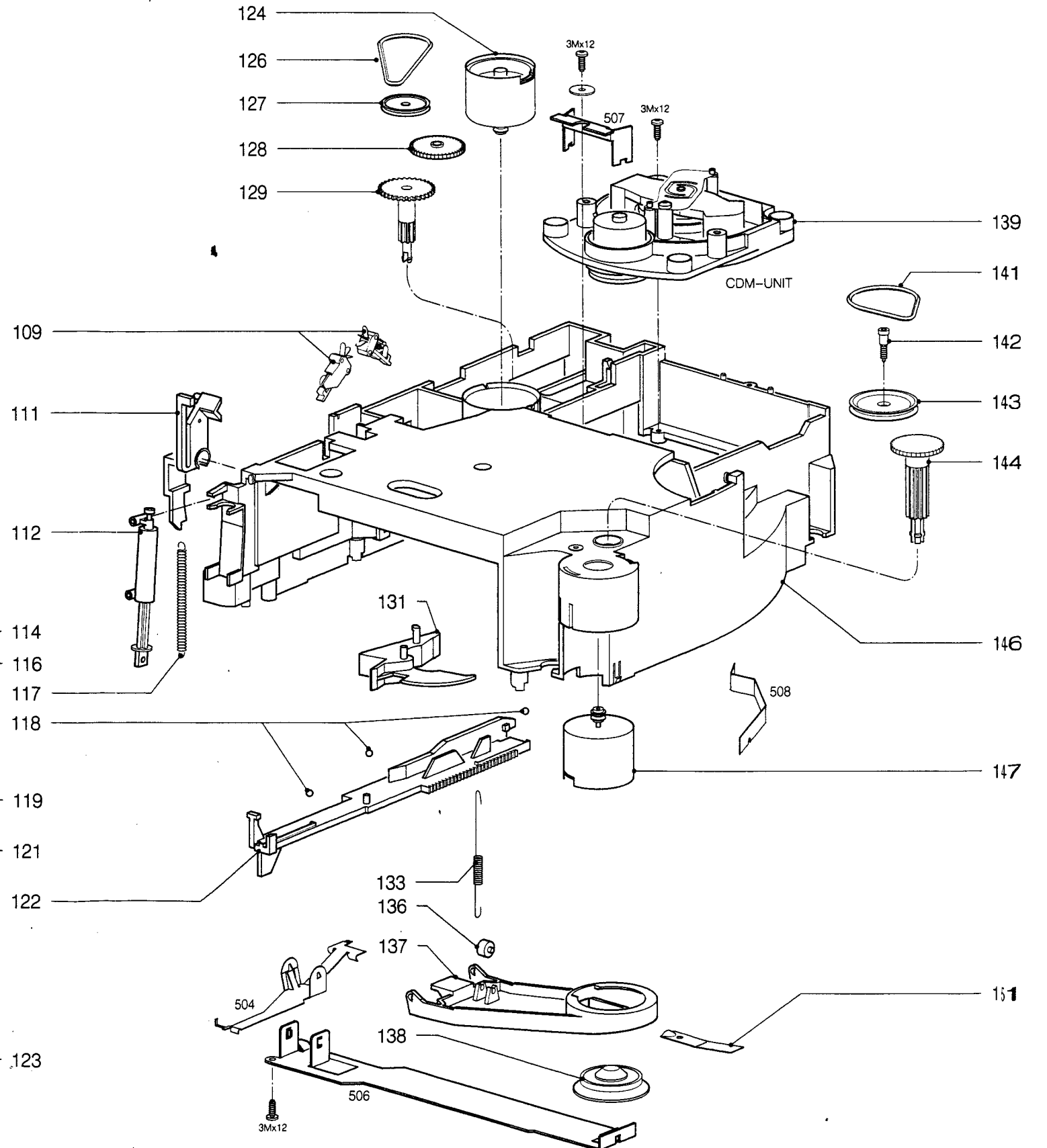
EV A.00739

Partslist changermodule

| | | | | | |
|-----|----------------|-----|----------------|-----|----------------|
| 101 | 4822 528 10741 | 121 | 4822 528 90639 | 142 | 4822 535 80788 |
| 102 | 4822 529 10213 | 122 | 4822 535 80787 | 143 | 4822 528 81231 |
| 103 | 4822 466 80671 | 123 | 4822 528 90639 | 144 | 4822 522 32479 |
| 104 | 4822 271 30628 | 124 | 4822 361 21141 | 145 | 4822 520 10665 |
| 106 | 4822 528 90638 | 126 | 4822 358 30852 | 146 | 4822 361 20998 |
| 107 | 4822 402 61212 | 127 | 4822 528 81232 | 147 | 4822 325 60317 |
| 108 | 4822 492 32888 | 128 | 4822 522 32482 | 151 | 4822 492 70033 |
| 109 | 4822 271 30628 | 129 | 4822 522 32481 | | |
| 111 | 4822 402 61211 | 131 | 4822 402 61208 | | |
| 112 | 4822 529 10214 | 133 | 4822 492 32887 | | |
| 114 | 4822 522 32478 | 136 | 4822 528 90639 | | |
| 116 | 4822 528 90639 | 137 | 4822 466 92264 | | |
| 117 | 4822 492 32889 | 138 | 4822 532 61112 | | |
| 118 | 4822 520 40241 | 139 | 4822 691 30215 | | |
| 119 | 4822 528 70539 | 141 | 4822 358 30853 | | |



EXPLODED VIEW
CD-CHANGER MODULE

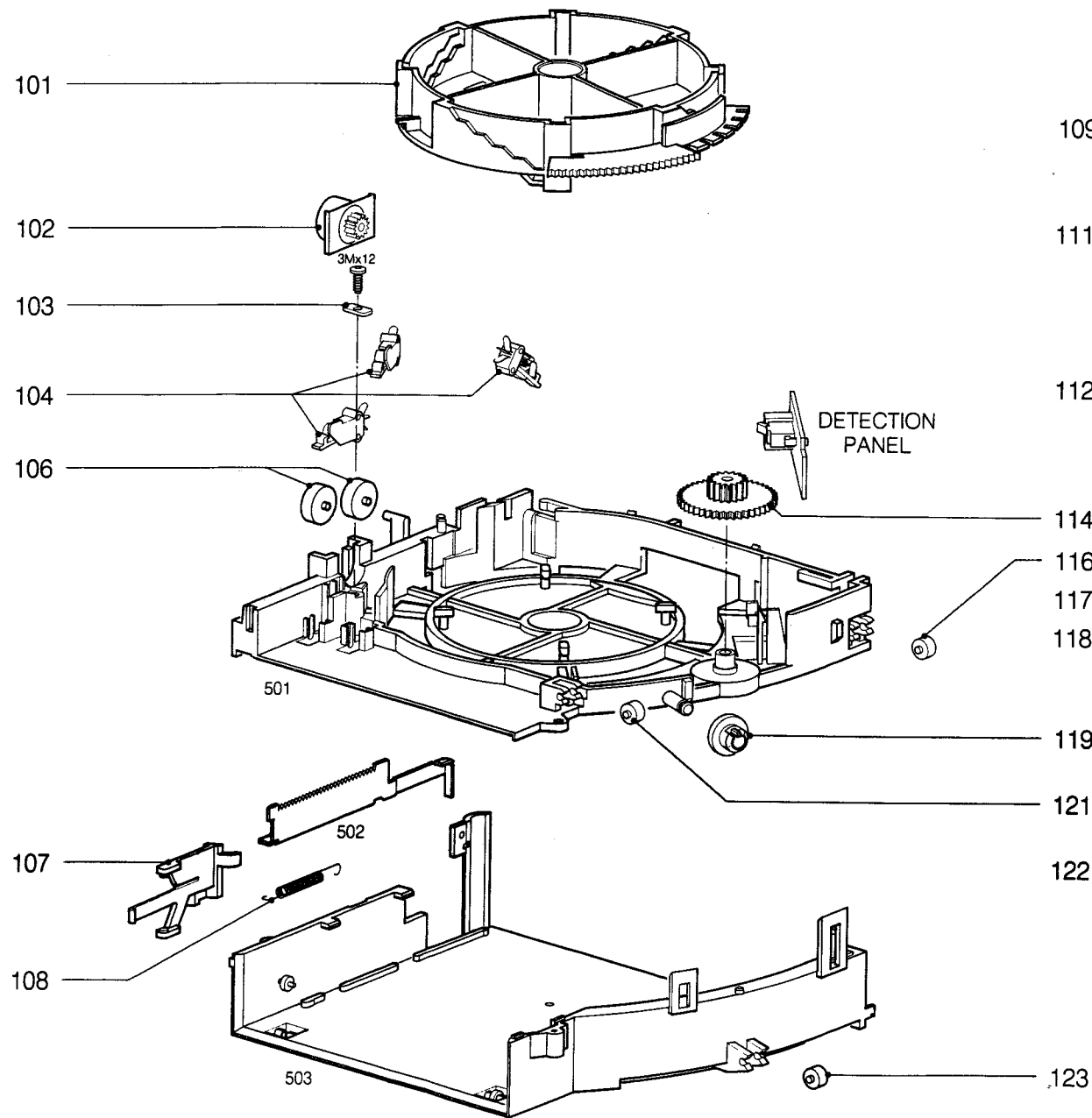


EVA.00721
T34/840

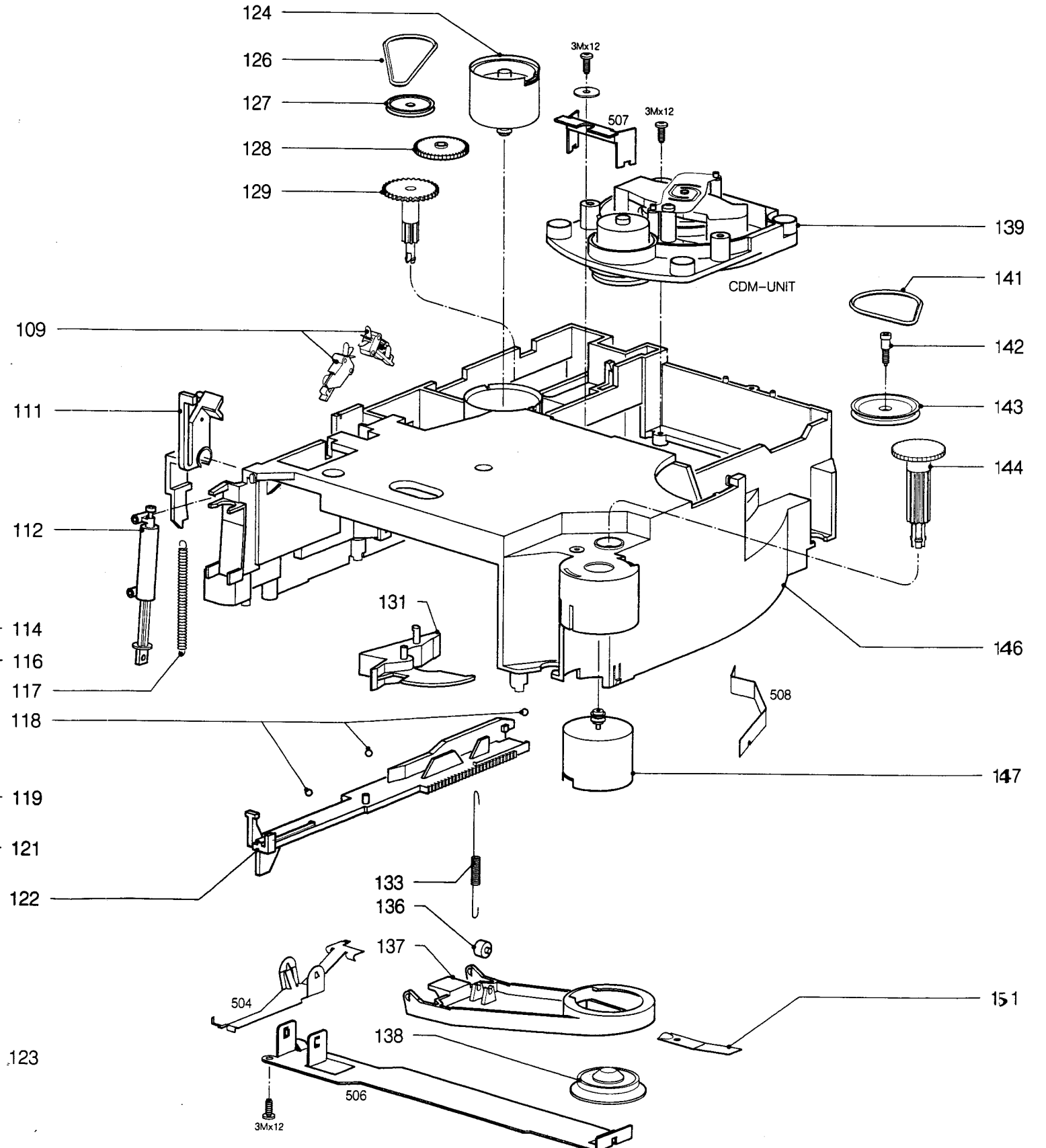
3-3-a

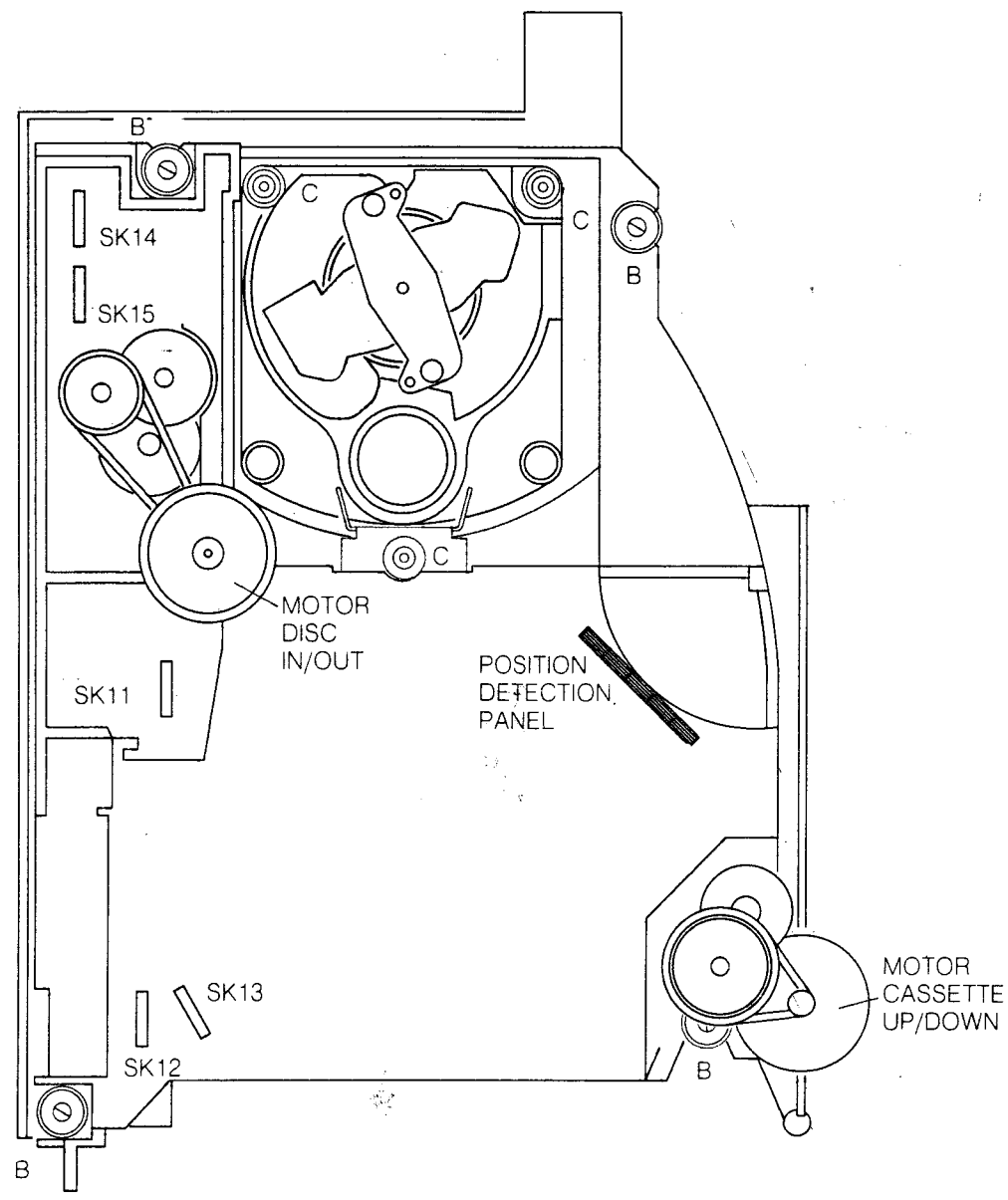
Partslist changermodule

| | | | | | |
|-----|----------------|-----|----------------|-----|----------------|
| 101 | 4822 528 10714 | 121 | 4822 528 90639 | 142 | 4822 535 80788 |
| 102 | 4822 529 10213 | 122 | 4822 535 80787 | 143 | 4822 528 81231 |
| 103 | 4822 466 80671 | 123 | 4822 528 90639 | 144 | 4822 522 32479 |
| 104 | 4822 271 30628 | 124 | 4822 361 21141 | 146 | 4822 520 10665 |
| 106 | 4822 528 90638 | 126 | 4822 358 30852 | 147 | 4822 361 20998 |
| 107 | 4822 402 61212 | 127 | 4822 528 81232 | 151 | 4822 492 70033 |
| 108 | 4822 492 32888 | 121 | 4822 522 32482 | | |
| 109 | 4822 271 30628 | 129 | 4822 522 32481 | | |
| 111 | 4822 402 61211 | 131 | 4822 402 61208 | | |
| 112 | 4822 529 10214 | 133 | 4822 492 32887 | | |
| 114 | 4822 522 32478 | 136 | 4822 528 90639 | | |
| 116 | 4822 528 90639 | 137 | 4822 466 92264 | | |
| 117 | 4822 492 32889 | 138 | 4822 532 61112 | | |
| 118 | 4822 520 40241 | 139 | 4822 691 30215 | | |
| 119 | 4822 528 70539 | 141 | 4822 358 30853 | | |



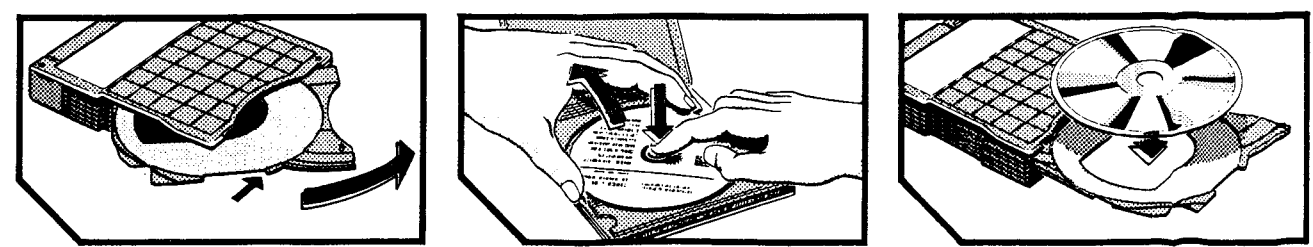
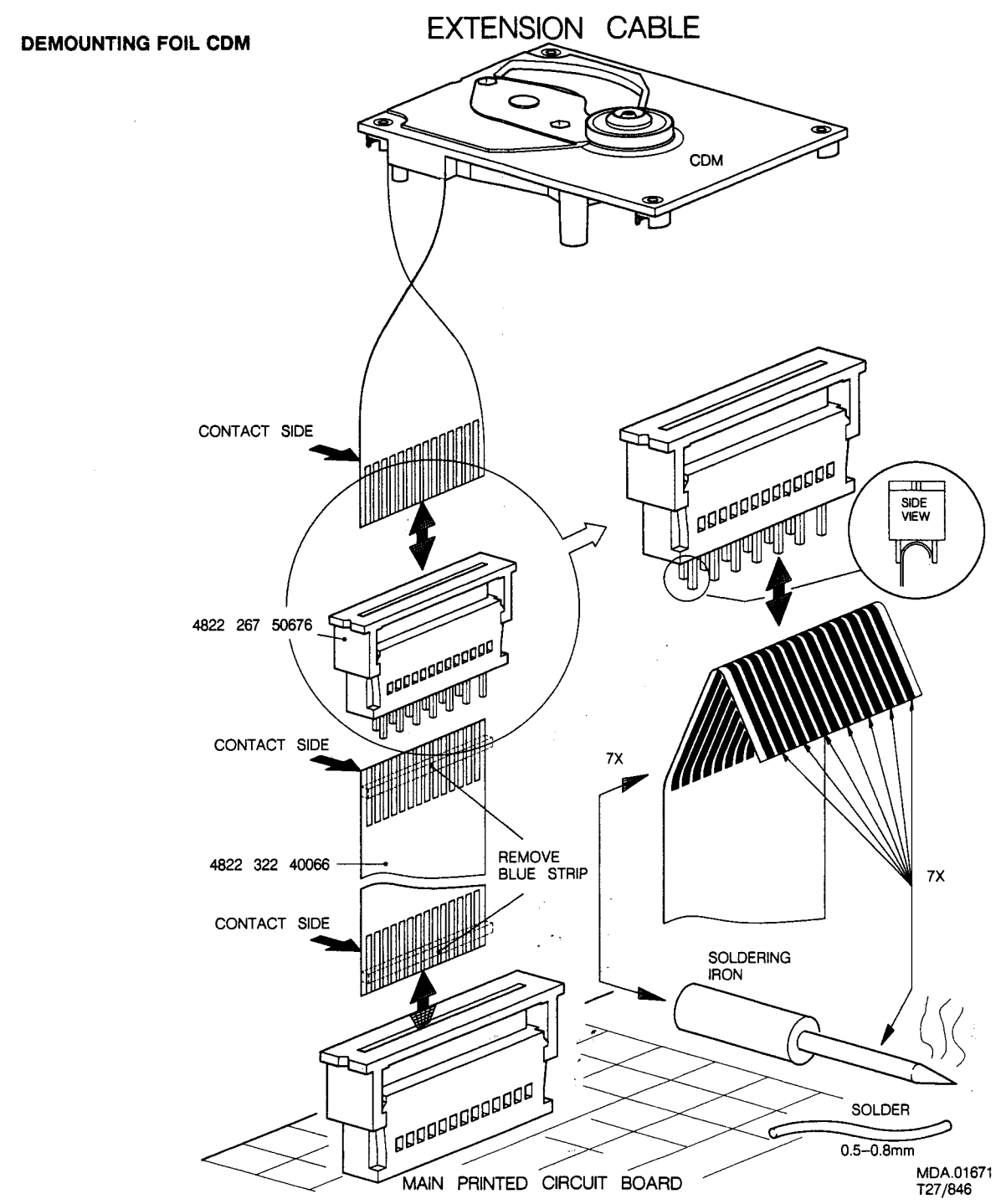
EXPLODED VIEW
CD-CHANGER MODULE





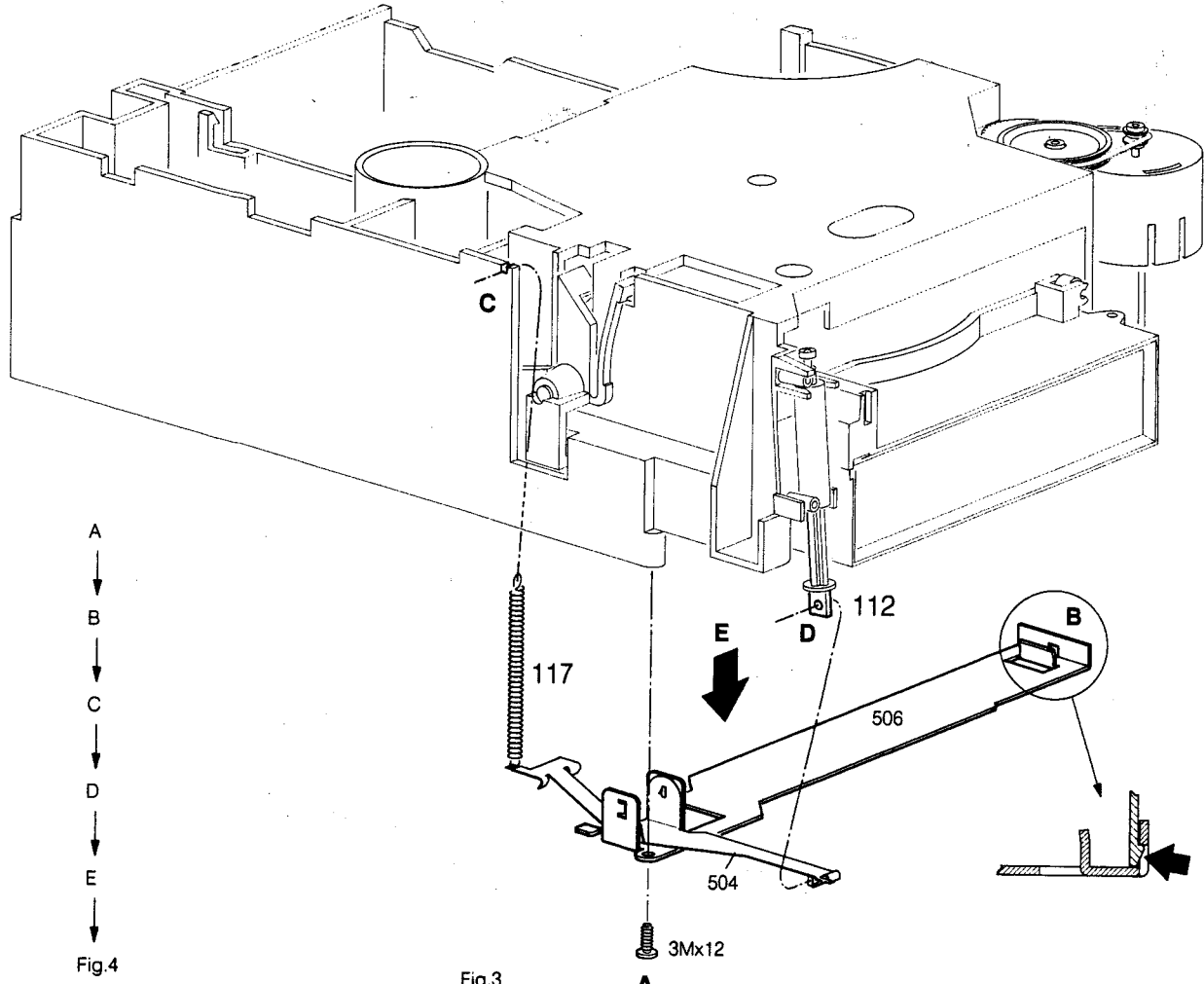
C-SCREWS FOR (DE)MOUNTING THE CDM
 B-SCREWS FOR (DE)MOUNTING THE LOADING

MDA 01442
 825/T27

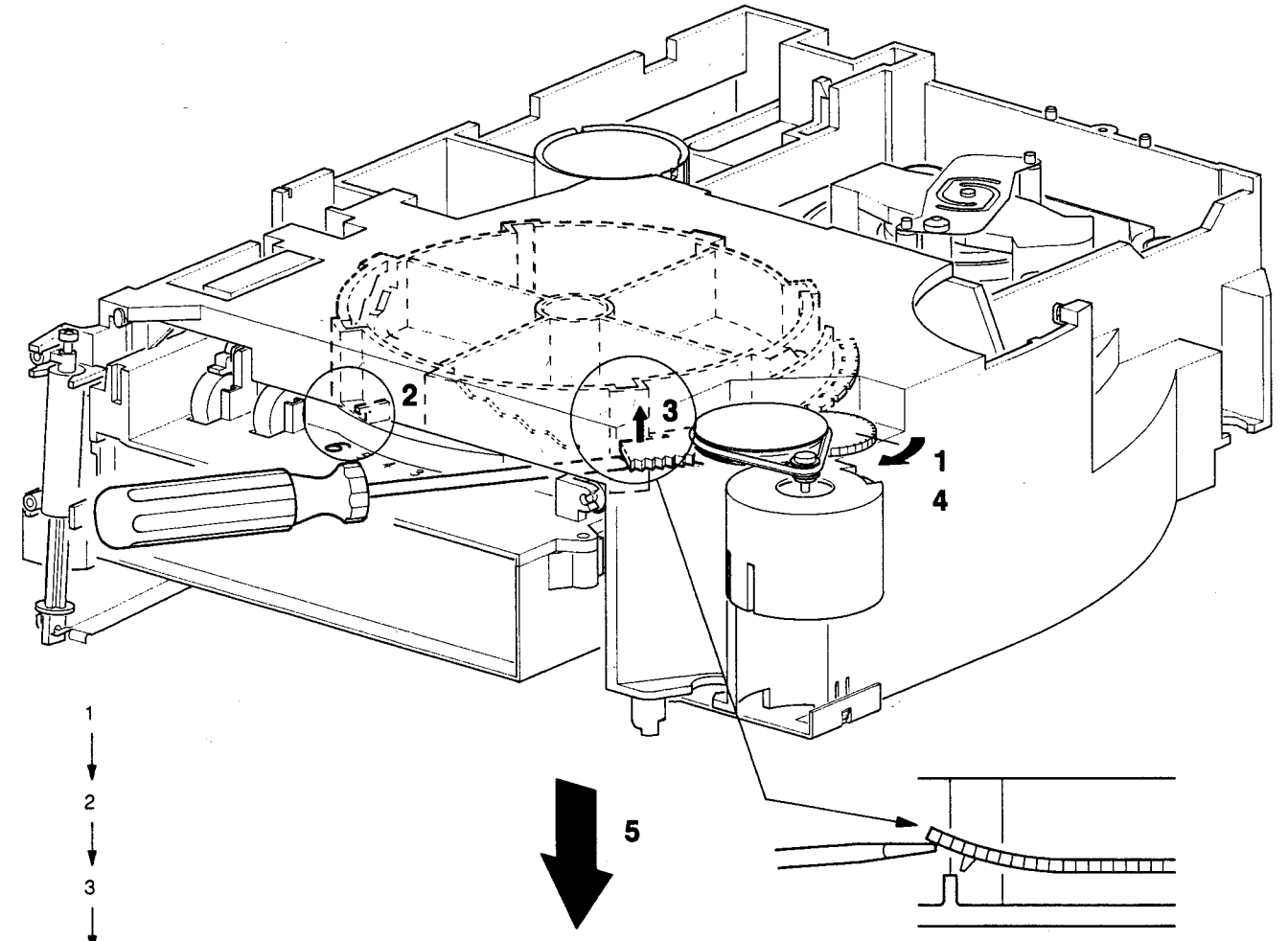


44 067 A11

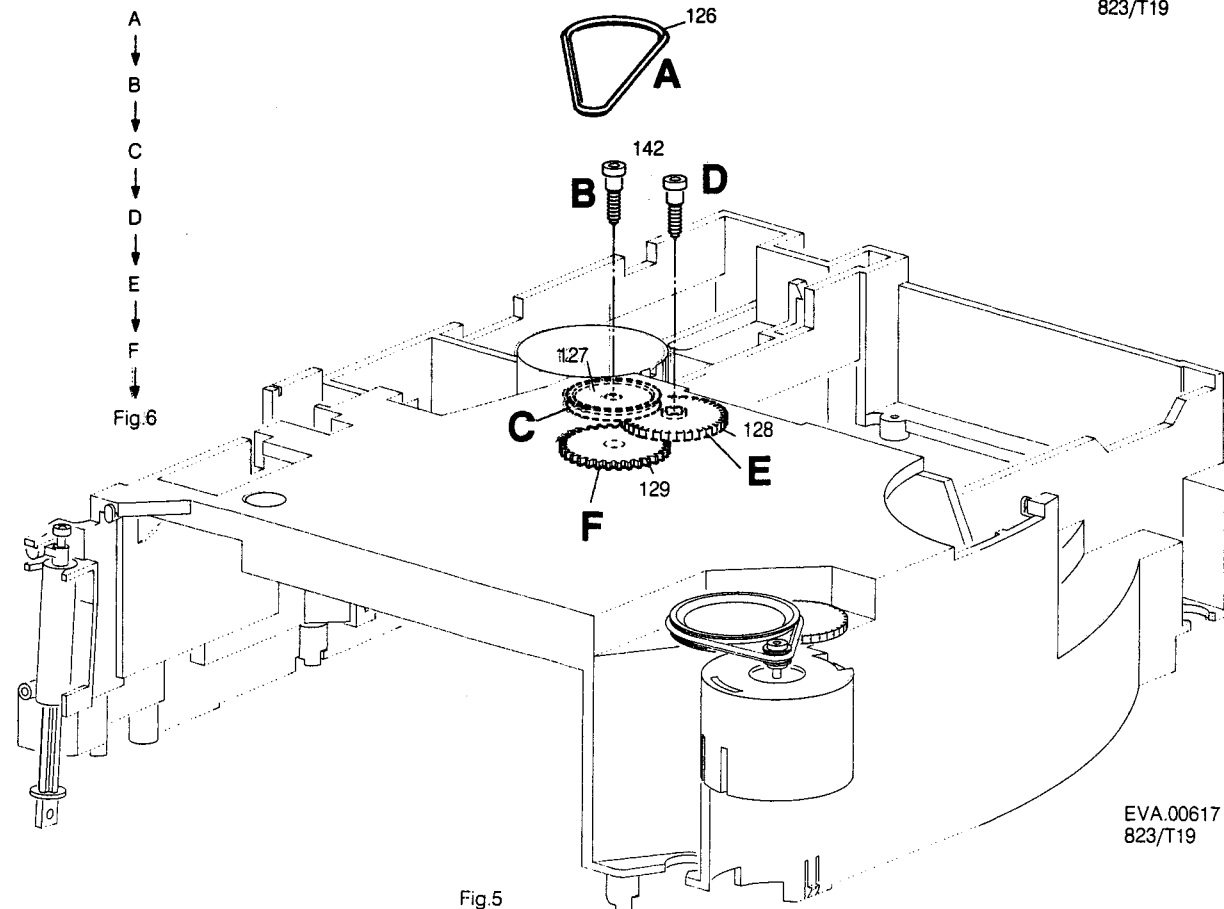
DISASSEMBLY OF THE CHANGERMODULE



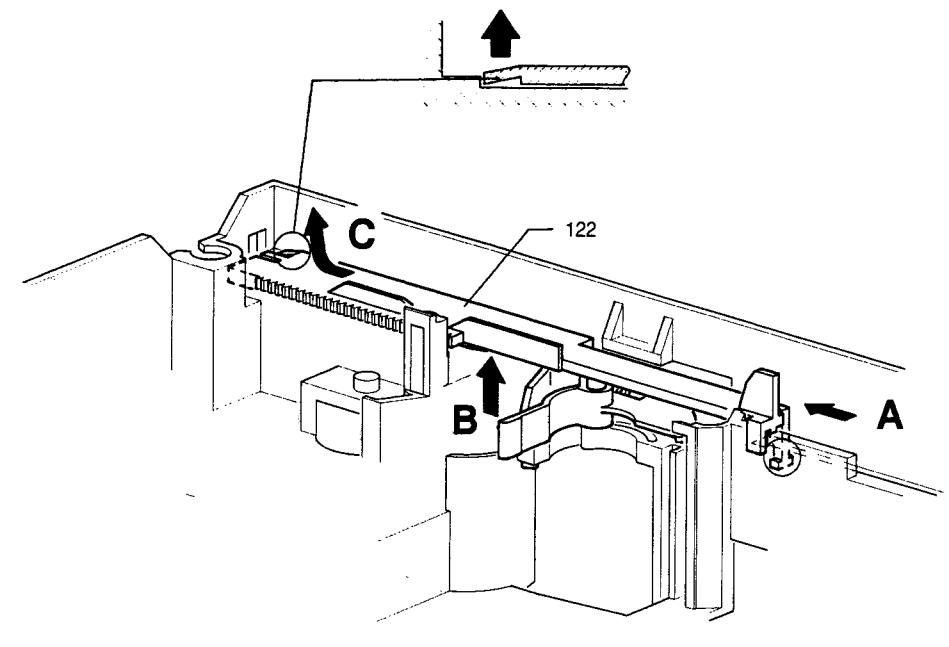
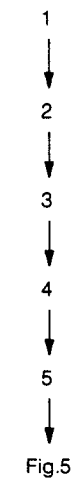
EVA.00615
823/T19



EVA.00614
822/T19

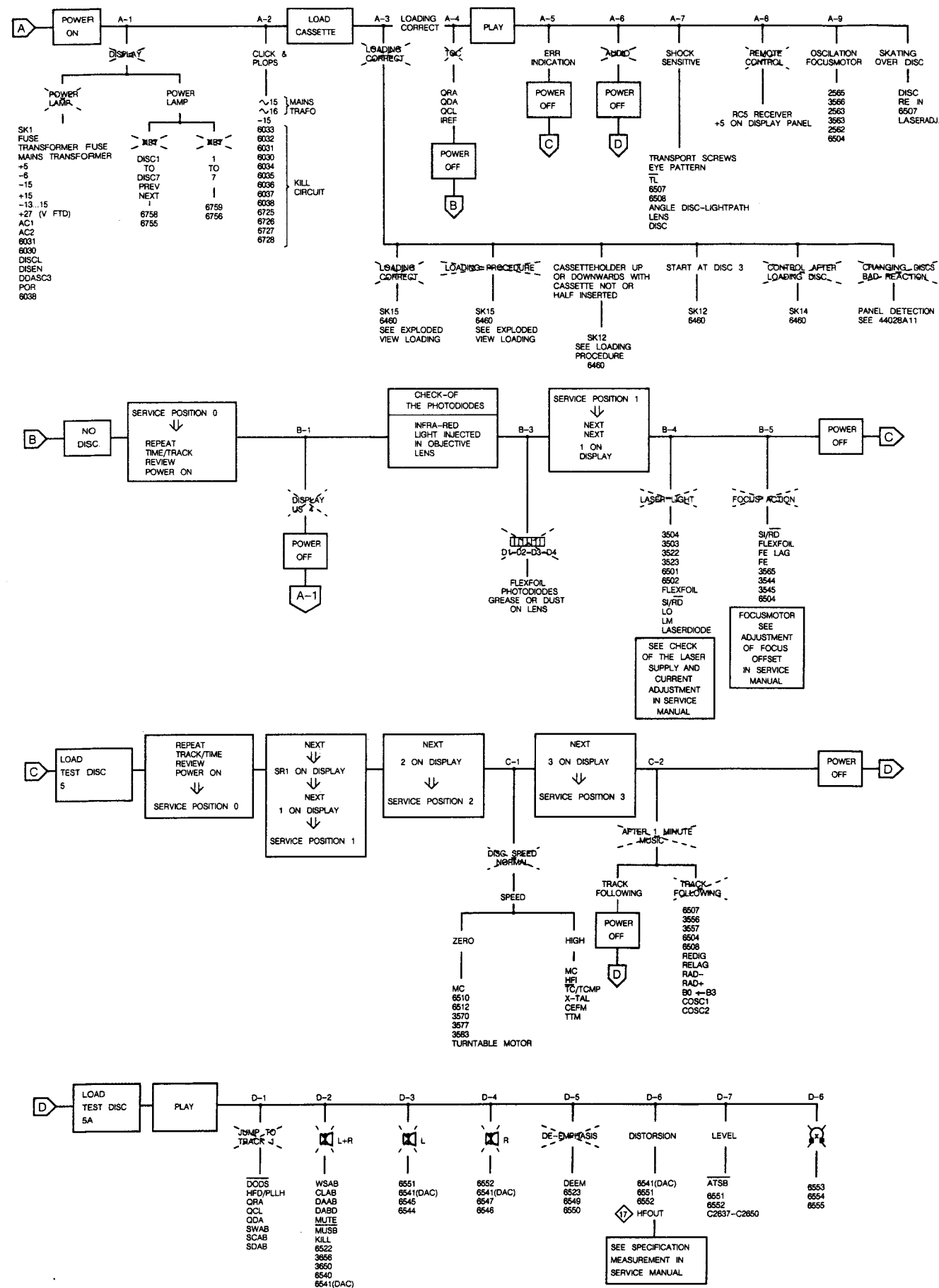


EVA.00617
823/T19



EVA.00618
823/T19

ELECTRICAL MEASUREMENTS AND ADJUSTMENTS



μP - SIGNALS 6517

| Signal | Mode | Symbol | Symbol | Symbol | Remarks |
|------------------|----------|--------|--------|-------------|---|
| Reset | Power on | 100 | | Puls "high" | |
| X-TAL | Stand-by | 101 | | 10 MHz | |
| MUTE | Stand-by | 67 | | "low" | |
| I ² D | | 53 | | 0,5 mS | activity when power on except: high when starting up/ low when stopping |
| I ² C | | 54 | | 0,5 mS | |

T-22255A

μP - SIGNALS 6460

| Signal | Mode | Symbol | Symbol | Symbol | Remarks |
|------------------|--------------------------|--------|--------|-------------|---|
| Reset | Power on | 52 | | Puls "high" | |
| T1 | Cassette position 1 to 6 | 51 | | high | When cassette on correct position |
| X-TAL | | 50 | | sinus | See frequency on X-TAL |
| I ² D | | 53 | | 0,5 mS | activity when power on except: high when starting up/ low when stopping |
| I ² C | | 54 | | 0,5 mS | |

T-22255B

B0+B3 SIGNALS

| Signal | Mode | Symbol | Symbol | Symbol | Remarks |
|--------|---|--------|--------|--------|---------|
| B0 | Service position 1 or 2 or 3; search >> | 36 | | "low" | |
| | Service position 1 or 2 or 3; search << | | | | |
| B1 | Service position 1 or 2 or 3; search >> | 34 | | "high" | |
| | Service position 1 or 2 or 3; search << | | | | |
| B2 | Service position 1 or 2 or 3; search >> | 33 | | "low" | |
| | Service position 1 or 2 or 3; search << | | | | |
| B3 | Service position 1 or 2 or 3; search >> | 32 | | "high" | |
| | Service position 1 or 2 or 3; search << | | | | |

T-22255C

B3
CHECK OF THE PHOTODIODES

| Step | Signal | Mode | | | | | Remarks |
|------|--------|----------|--------------|---|---|---|---|
| 1 | - | power on | | - | - | - | See drawing 38314A12 *1 Signal depends on Distance lens ↔ IR LED of remote control |

*1 Inject light of infra-red remote control in optical pick-up

T-22255D

B4
CHECK OF LASER SUPPLY WITH DEMOUNTED CDM AND ADDITIONAL CIRCUIT

| Step | Signal | Mode | | | | | Remarks |
|------|--------|--------------|------|---|-------------|---|-----------------------------|
| 1 | LO | serv. pos. 2 | | - | 1.8<V <2.3 | - | See drawing 42444 A12 *2 |
| | LM | | | - | 170<mV <220 | - | |
| 2 | LO | serv. pos. 2 | | - | 1.8<V <2.3 | - | |
| | LM | | | - | 170<mV <220 | - | |

*2 During the change over from SK closed to SK open, the led will emit more light for a short moment

T-22255E

B4
LASER CURRENT ADJUSTMENT

| Step | Signal | Mode | | | | | Remarks |
|------|--------------------------------------|--------------------------|----------|-------|----------|-----------------|---------------------------------------|
| 1 | - | Power off | | R3520 | 1kΩ | - | Pre-adjustment Ohmic value |
| 2 | Eye-pattern HF | Test disc 5 play | | - | - | Drawing 37017B8 | IF no signal see "start up procedure" |
| 3 | laser current = voltage across R3501 | test disc 5 play track 1 | | R3520 | 50 mV DC | - | High ohmic measurement |

T-22255F

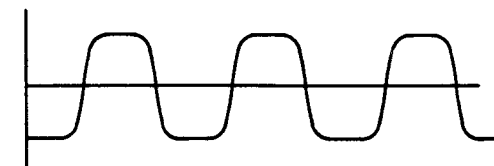
ADJUSTMENT OF FOCUS-OFFSET

| Step | Signal | Mode | | | | | Remarks |
|------|--------|----------------------------------|----|-------|------------------|---|---------------------------------|
| 1 | - | Power on | - | R3569 | - | - | adjust for optical mid-position |
| 2 | FE LAG | Service pos "2" test disc 5 play | 27 | R3569 | 400mV ± 40 mV DC | - | fine adjustment |

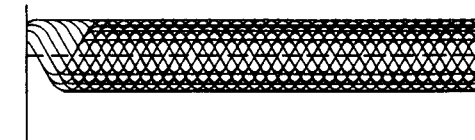
T-22255G

B5
FOCUS ACTION

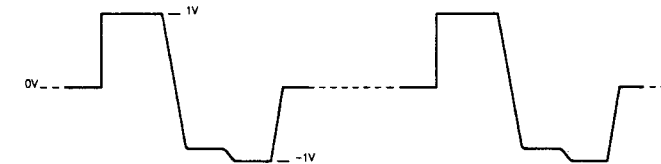
| Signal | Mode | | | | Remarks |
|--------|---|----|--|------------|--------------------------------|
| SI/RD | Service position 1 when repeating start up procedure (no disc inserted) | 21 | | puls "low" | See drawing MDA.01403 no disc |
| FE | Test disc 5A, service position 1 when repeating start up procedure | 26 | | | See drawing MDA.01413 |
| FE-LAG | Test disc 5A | 27 | | | See adjustment of focus-offset |



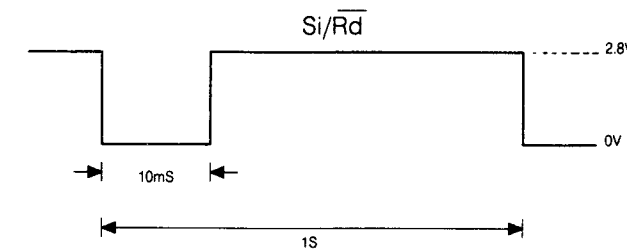
38 314 A12



37 017 B8



MDA.01413 T33/823



MDA.01403 T33/821



POSITION: STAND BY

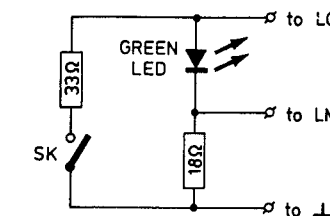


POSITION: PLAY (BEGINNING)



POSITION: PLAY (NORMAL)

38 849 A12



CONNECTED DIRECTLY TO PANEL

42 444 A12

**C1
HIGH SPEED DISC ROTATION**

| Signal | Mode | | | | Remarks |
|--------|--|----|-------------|---------------|----------------------|
| MC | Test disc 5, play or service position 2 | 81 | | | See drawing 38849A12 |
| TCMP | Test disc 5, play or service position 2 | 14 | +5 V | | After 4 TL Pulses |
| HFI | Test disc 5, play or service position 2 | 65 | | $\pm 1,5$ Vpp | See drawing 37017B8 |
| X-tal | Test disc 5A, play or service position 2 | 69 | | 11.28 MHz | |
| TL | Test disc 5, play or service position 2 | 13 | | pulses "low" | * |
| TTM- | Test disc 5A, play or service position 2 | 16 | Approx -1 V | | |

T-22255I

**C2
TRACK FOLLOWING**

| Signal | Mode | | | | Remarks |
|--------|--|----|-----------------|----------|-------------|
| RE dig | Test disc 5, play or service position 3 | 37 | | | |
| RE lag | Test disc 5, play or service position 3 | 41 | approx 2.5 V DC | | |
| RAD- | Test disc 5A, play or service position 3 | 42 | | | |
| RAD+ | Test disc 5A, play or service position 3 | 40 | | | |
| C osc1 | Test disc 5, play or service position 3 | 30 | | 650 Hz | |
| C osc2 | Test disc 5, play or service position 3 | 31 | | 650 Hz | |
| RE1 | Test disc 5, service position 2 | 18 | | 2 ms/div | See drawing |
| RE2 | Test disc 5, service position 2 | 22 | | 2 ms/div | 30743 B12 |

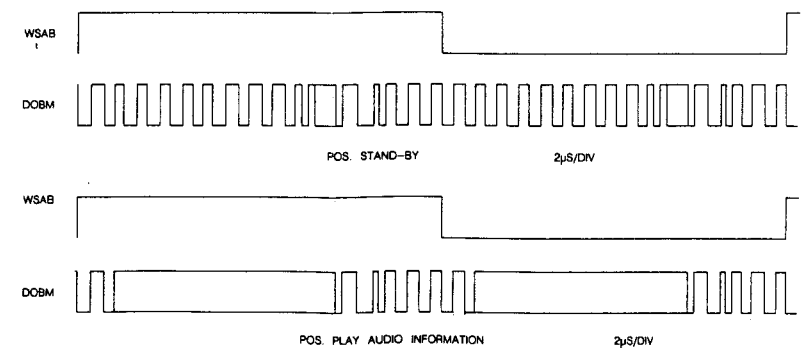
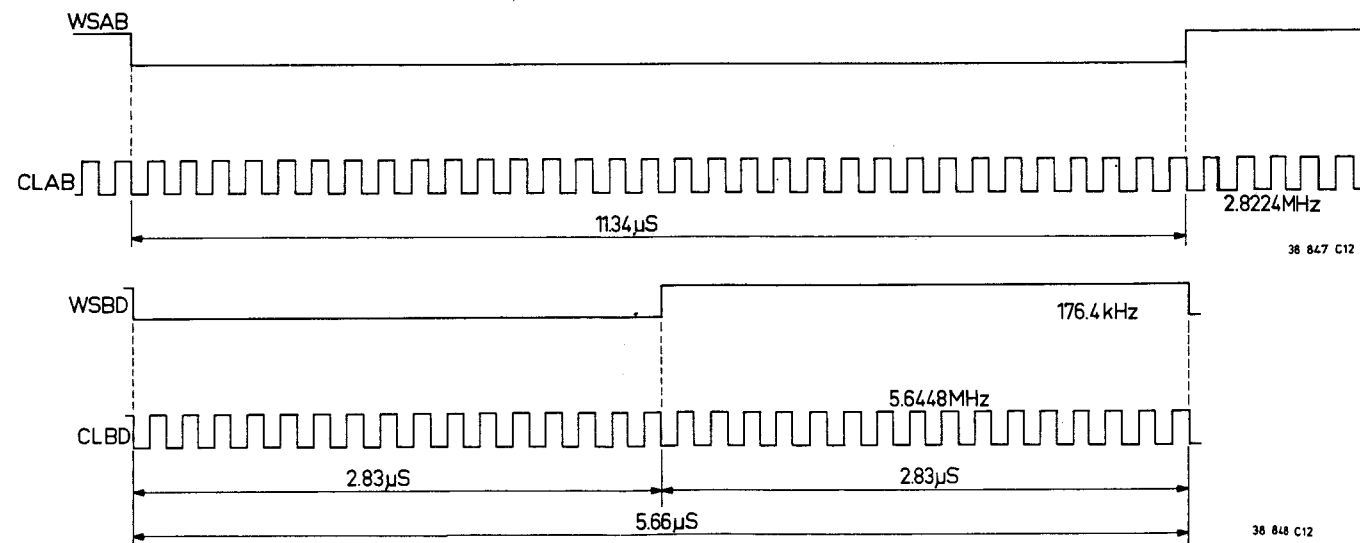
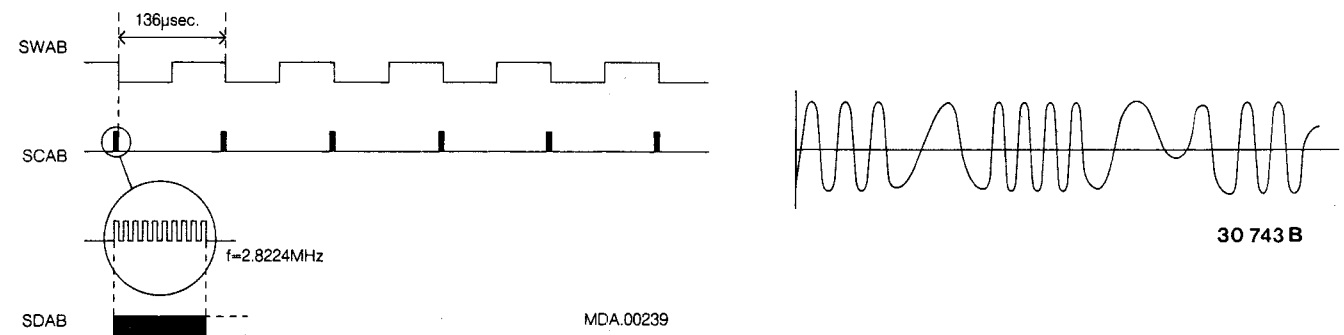
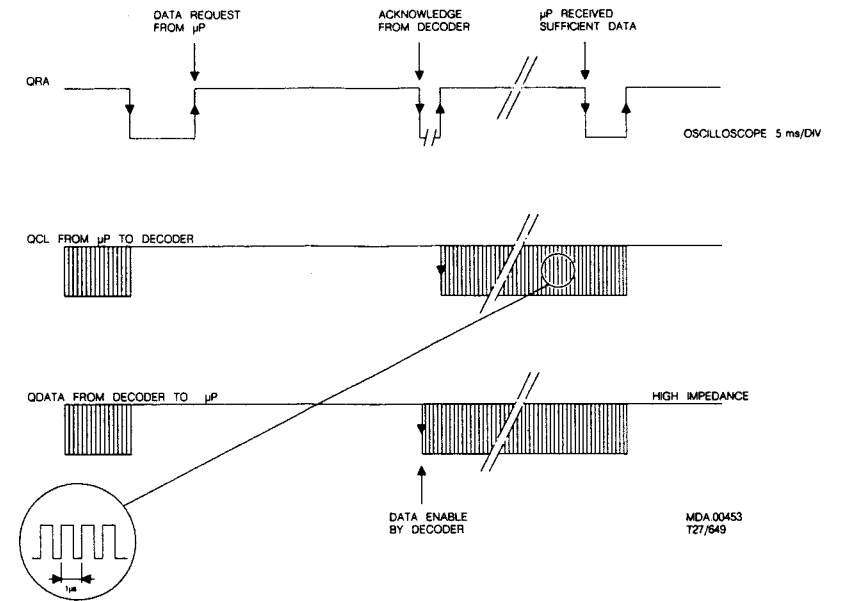
T-22255J

*When slightly bumped against the CDM

**D1
JUMP TO TRACK 1**

| Signal | Mode | | | | Remarks |
|----------|-------------------------------------|----|--|--------------|--|
| DODS | Test disc 5A search >> or 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 |
| QRA | Test disc 5A, play | 75 | | | } See drawing MDA.00453 |
| QDA | Test disc 5A, play | 77 | | | |
| QCL | Test disc 5A, play | 76 | | | |
| SWAB | Test disc 5A, play | 78 | | | See drawing MDA.00239 |
| SCAB | Test disc 5A, play | 79 | | | See drawing MDA.00239 |
| SDAB | Test disc 5A, play | 80 | | | See drawing MDA.00239 |

T-22255K



4-4
DECODER

| Signal | Mode | | | | Remarks |
|--------|--|----|--|-----------------|--|
| CEFM | Disc, play | 68 | | 4.32 MHz | |
| X-IN | Disc, play | 69 | | 11.28 MHz | |
| WSAD | Disc, play | 71 | | | See drawing 38847C12 |
| CLAD | Disc, play | 72 | | | See drawing 38847C12 |
| DAAD | Disc, play | 73 | | activity | See drawing 38847C12 |
| EFAB | Testdisc 5A, play | 74 | | pulses | When the disc is slowly braked by hand |
| SWAB | Disc, play | 78 | | | See drawing MDA.00239 |
| SCAB | Disc, play | 79 | | | See drawing MDA.00239 |
| SDAB | Disc, play | 80 | | | See drawing MDA.00239 |
| DEEM | Testdisc 5, play TRACK 14: PLAY TRACK 15: PLAY | 84 | | "low" "high" | |

T-22255L

DAC IC

| Signal | Mode | | | | Remarks |
|------------------|------------|----|--|-----------|----------------------|
| Output of OP-AMP | Disc, play | 94 | | LF signal | Left channel |
| Output of OP-AMP | Disc, play | 95 | | LF signal | Right channel |
| DABD | Disc, play | 86 | | activity | |
| CLBD | Disc, play | 87 | | | See drawing 38848C12 |
| WSBD | Disc, play | 85 | | | |

T-22255M

D5
DEEM CIRCUIT

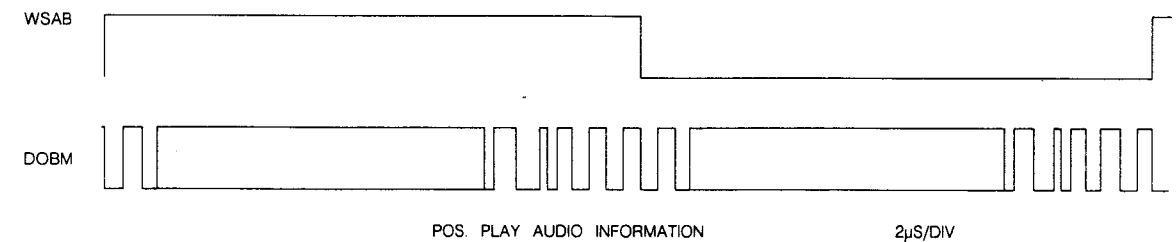
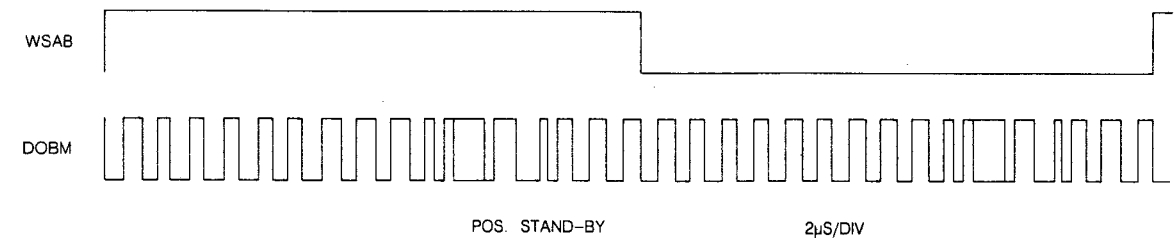
| Signal | Mode | | | | Remarks |
|--------------|---|----|--|-----------------|---|
| DEEM | Test disc 5A track 14 PLAY track 15 PLAY | 84 | | "low" "high" | See testpoint 92 and 91 on DEEM circuit |
| Testpoint 92 | Test disc 5A track 14 | 92 | | LF signal | |
| Testpoint 92 | Test disc 5A track 15 | 92 | | No signal | |
| Testpoint 91 | Test disc 5A track 14 | 91 | | LF signal | |
| Testpoint 91 | Test disc 5A track 15 | 91 | | No signal | |

T-22255N

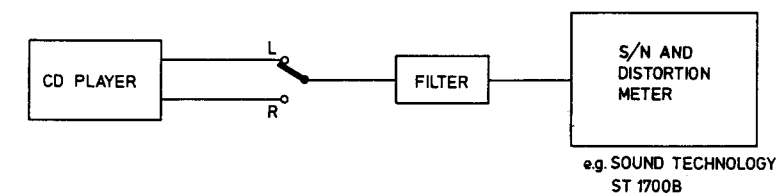
D6
SPECIFICATIONS MEASUREMENT

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

T-22255O



MDA.00238
107/733



e.g. SOUND TECHNOLOGY
ST 1700B

30 459 A12

(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.

(F) ATTENTION

Tous les IC et beaucoup d'autres semi-conducteurs sont sensibles aux décharges statiques (ESD). Leur longévité pourrait être considérablement écourtée par le fait qu'aucune précaution n'est prise à leur manipulation.
Lors de réparations, s'assurer de bien être relié au même potentiel que la masse de l'appareil et enfiler le bracelet serti d'une résistance de sécurité.
Veiller à ce que les composants ainsi que les outils que l'on utilise soient également à ce potentiel.

(D) WARNUNG

Alle ICs und viele andere Halbleiter sind empfindlich gegenüber elektrostatischen Entladungen (ESD).
Unvorsichtige Behandlung im Reparaturfall kann die Lebensdauer drastisch reduzieren. Veranlassen Sie, dass Sie im Reparaturfall über ein Pulsarmband mit Widerstand verbunden sind mit dem gleichen Potential wie die Masse des Gerätes.
Bauteile und Hilfsmittel auch auf dieses gleiche Potential halten.



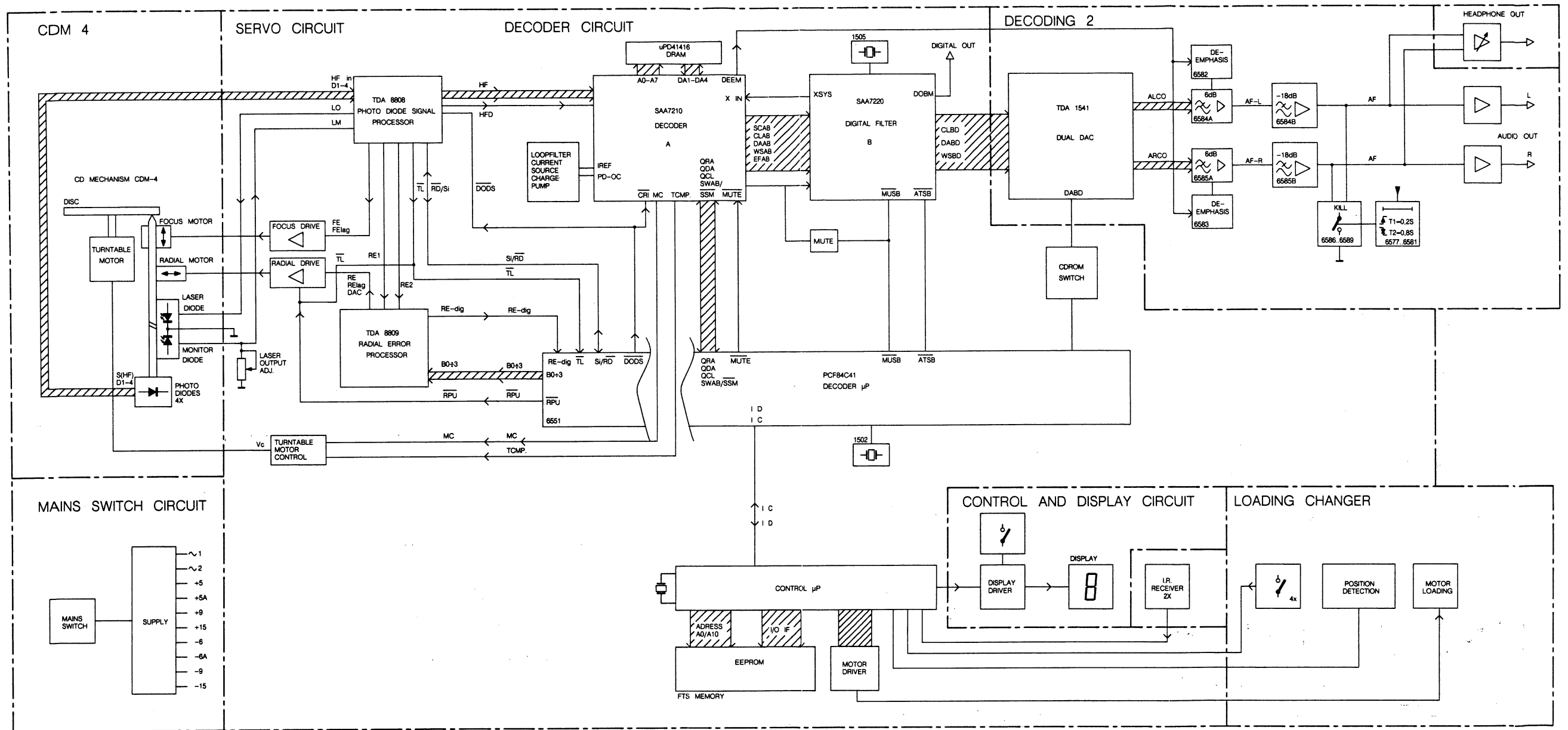
(NL) WAARSCHUWING

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

(I) AVVERTIMENTO

Tutti IC e parecchi semi-conduttori sono sensibili alle scariche statiche (ESD).
La loro longevità potrebbe essere fortemente ridotta in caso di non osservazione della più grande cauzione alla loro manipolazione. Durante le riparazioni occorre quindi essere collegato allo stesso potenziale che quello della massa dell'apparecchio tramite un braccialetto a resistenza.
Assicurarsi che i componenti e anche gli utensili con quali si lavora siano anche a questo potenziale.

BLOCK DIAGRAM



PFIS 05505
T32-944
CIC586

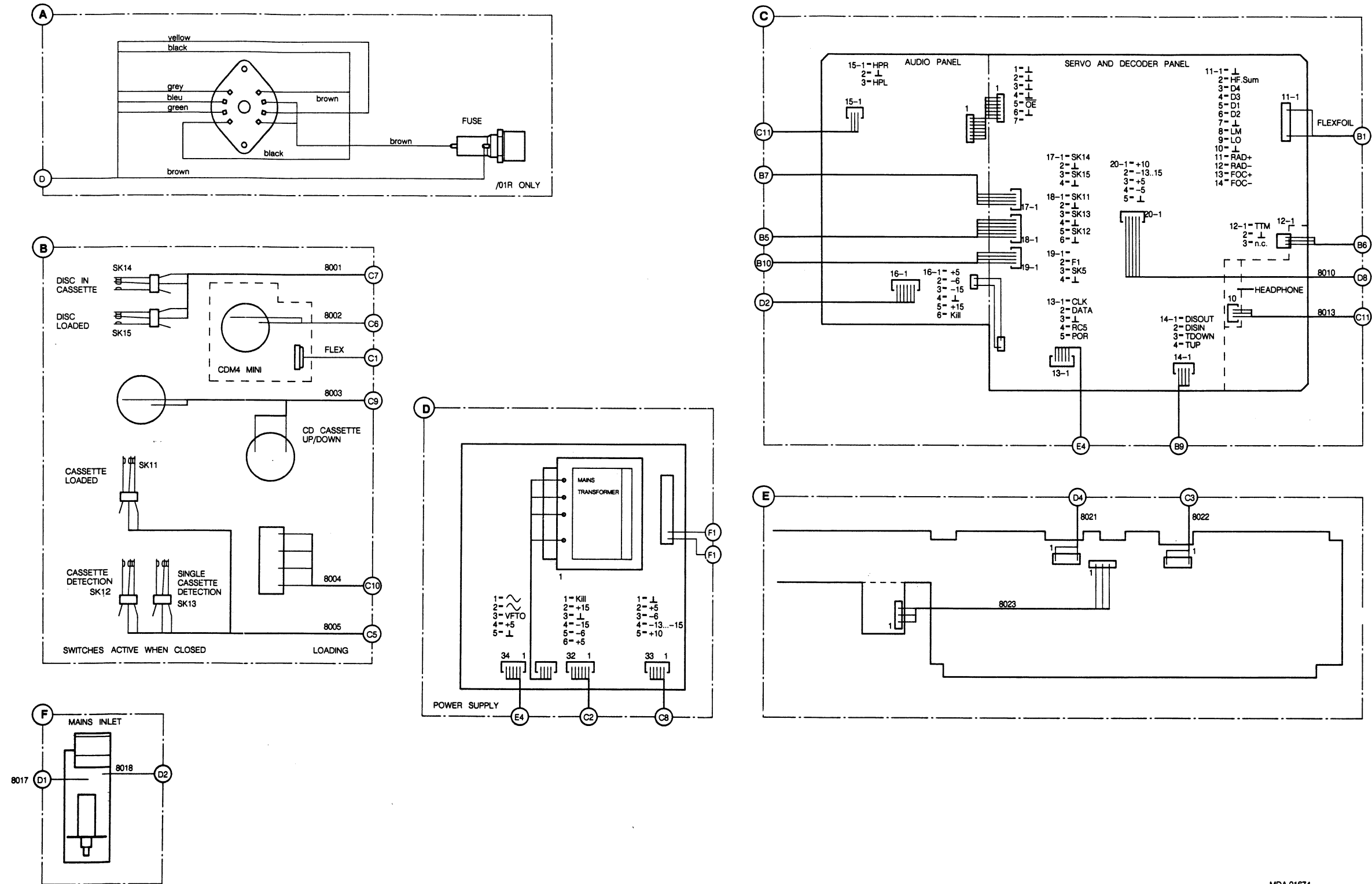
- B0-B3 - Control bits for radial circuit
- DAC - Current output for track jumping (Digital to Analogue Converted)
- DODS - Drop out detector suppression
- D1+4 - Photodiode currents
- FE - Focus error signal
- FE-lag - Focus error signal for LAG network
- HF - HF output for DEMOD
- HFD - HF detector output for DEMOD
- HF-in - HF current input
- LM - Laser monitor diode input
- LO - laser amplifier current output
- MC - Motor control signal
- RE - Radial error signal (amplified RE₂-RE₁ currents)
- RE1 - Radial error signal 1 (summation of amplified currents D₃ and D₄)

- RE2 - Radial error signal 2 (summation of amplified currents D₁ and D₂)
- RE dig - Radial error digital
- RE lag - Radial error signal for LAG network
- RD - Ready signal, starting up procedure finished
- RPU - Radial puls after track jumping
- Si - On/off control for laser supply and focus circuit
- TL - Track loss signal
- Vc - Control voltage for turntable motor
- ATSB - Attenuation of Audio level in Search position (Cueing)
- CD ROM Switch - Digital Data information on disc signal

- CEFM - Clock Eight-to-Fourteen Modulator
- CLAB - Clock signal Decoder-A to Filter-B
- CLBD - Clock signal Filter-B to DAC
- CRI - Counter Reset Inhibit
- DAAB - Data signal Decoder-A to Filter-B
- DABD - Clock signal Filter-B to DAC
- DEEM - Deemphasis
- DOBM - Digital out signal
- EFAB - Error flag Decoder-A to Filter-B
- IREF - Reference Current
- MSTP - Motor start-stop signal
- MUTE - Mute signal
- MUSB - Soft Mute signal
- PD/OC - Phase detector - oscillator control

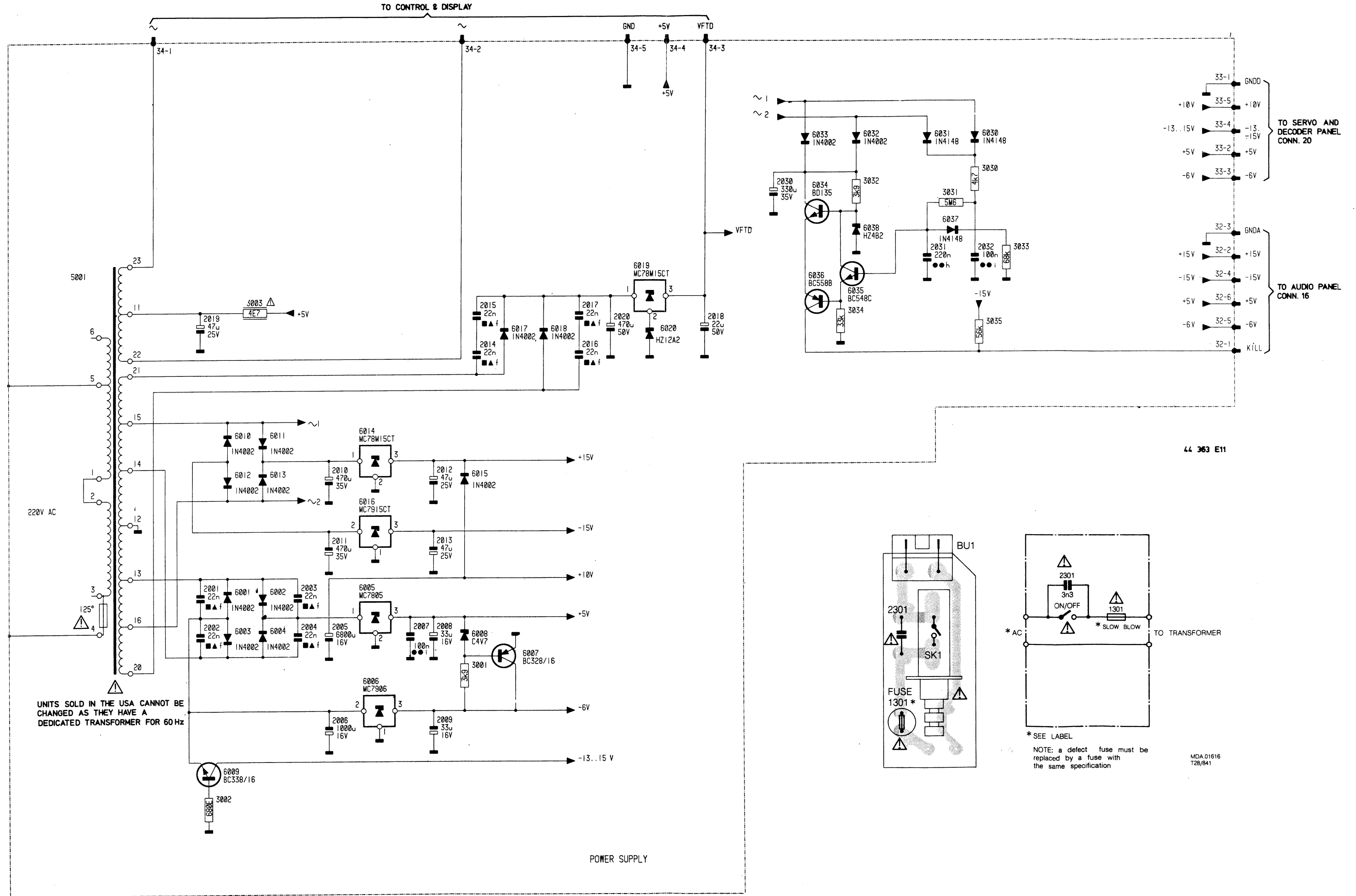
- POR - power on reset
- QCL - Q-channel Clock signal
- QDA - Q-channel Data signal
- QRA - Q-channel Request Acknowledge
- SCAB - Subcode clock Decoder-A to Filter-B
- SCLK-I²C - Serial Clock signal Decoder-Control μP (Inter IC Connection)
- SDAB - Subcode data Decoder-A to Filter-B
- SDAT-I²D - Serial Data signal Decoder-Control μP (Inter IC Connection)
- SWAB/SSM - Subcode Word/Start-stop motor signal
- TCMP - Turntable control motor pulse
- WSAB - Word Select Decoder-A to Filter-B
- WSBD - Word Select Filter-B to DAC
- XIN - Oscillator signal in Decoder-A
- XSYS - Oscillator signal out Filter-B

WIRING DIAGRAM

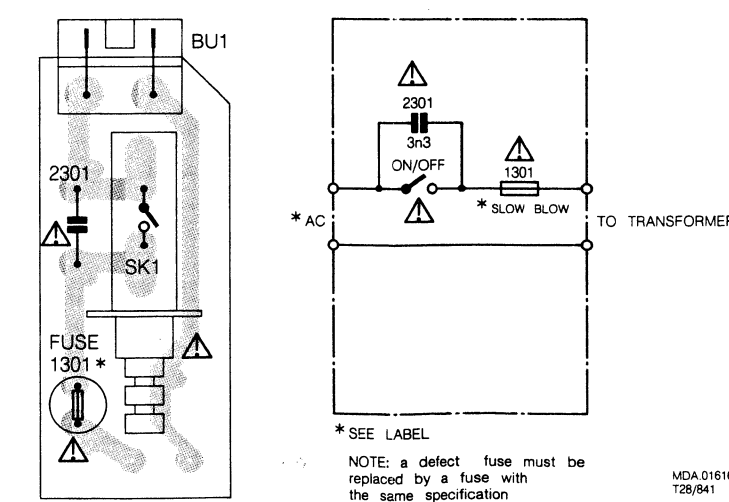


MDA.01674
842/728

POWER AND HEADPHONE DIAGRAM

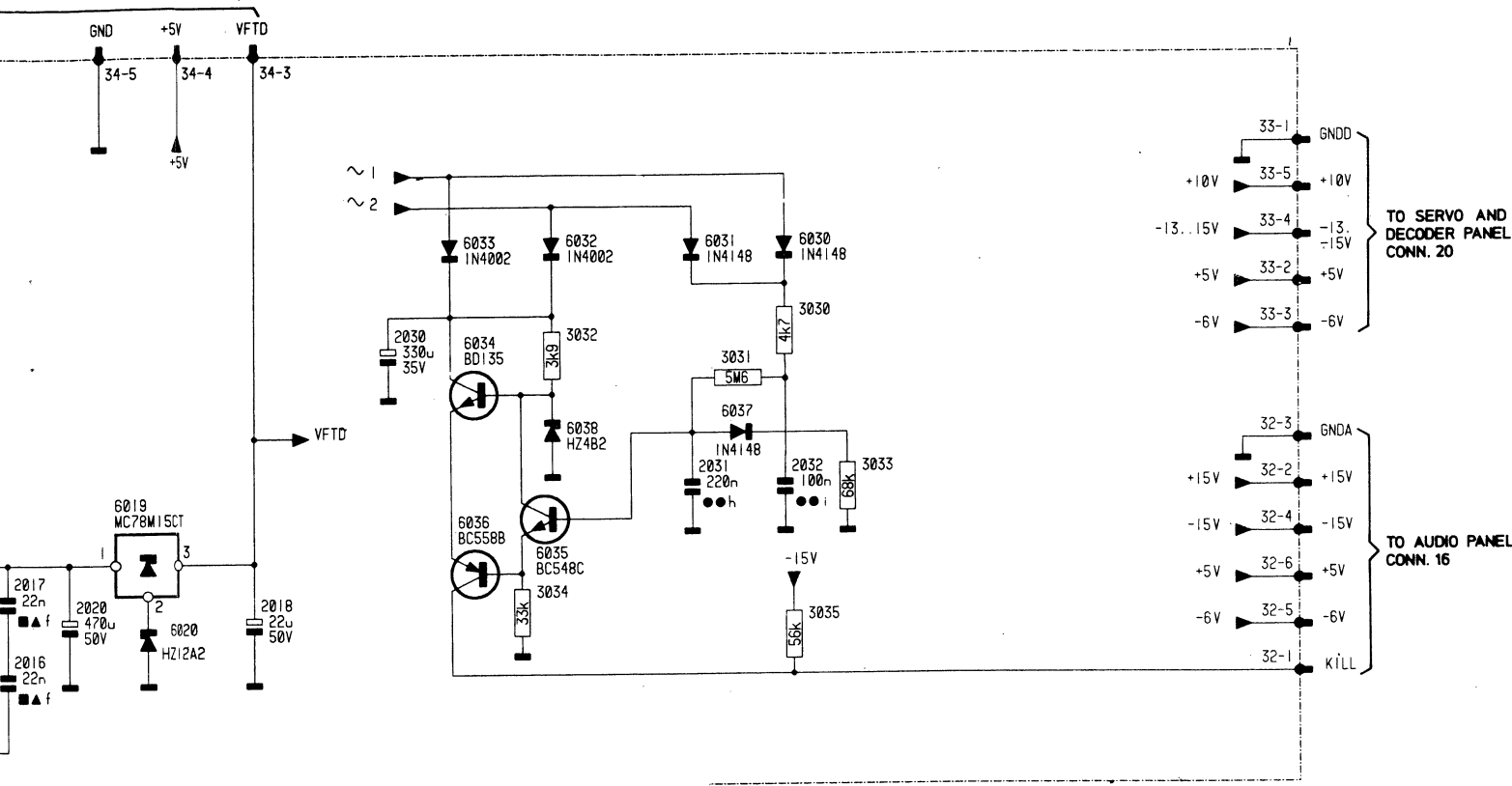


44 363 E11

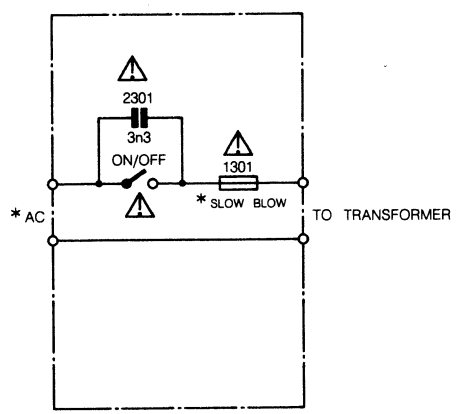
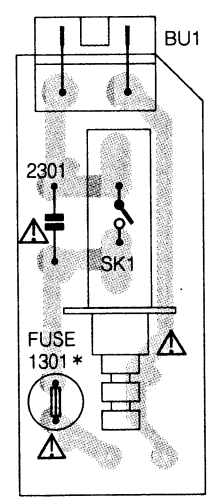


* SEE LABEL
NOTE: a defect fuse must be replaced by a fuse with the same specification

MDA 01616
T28/841



44 363 E11

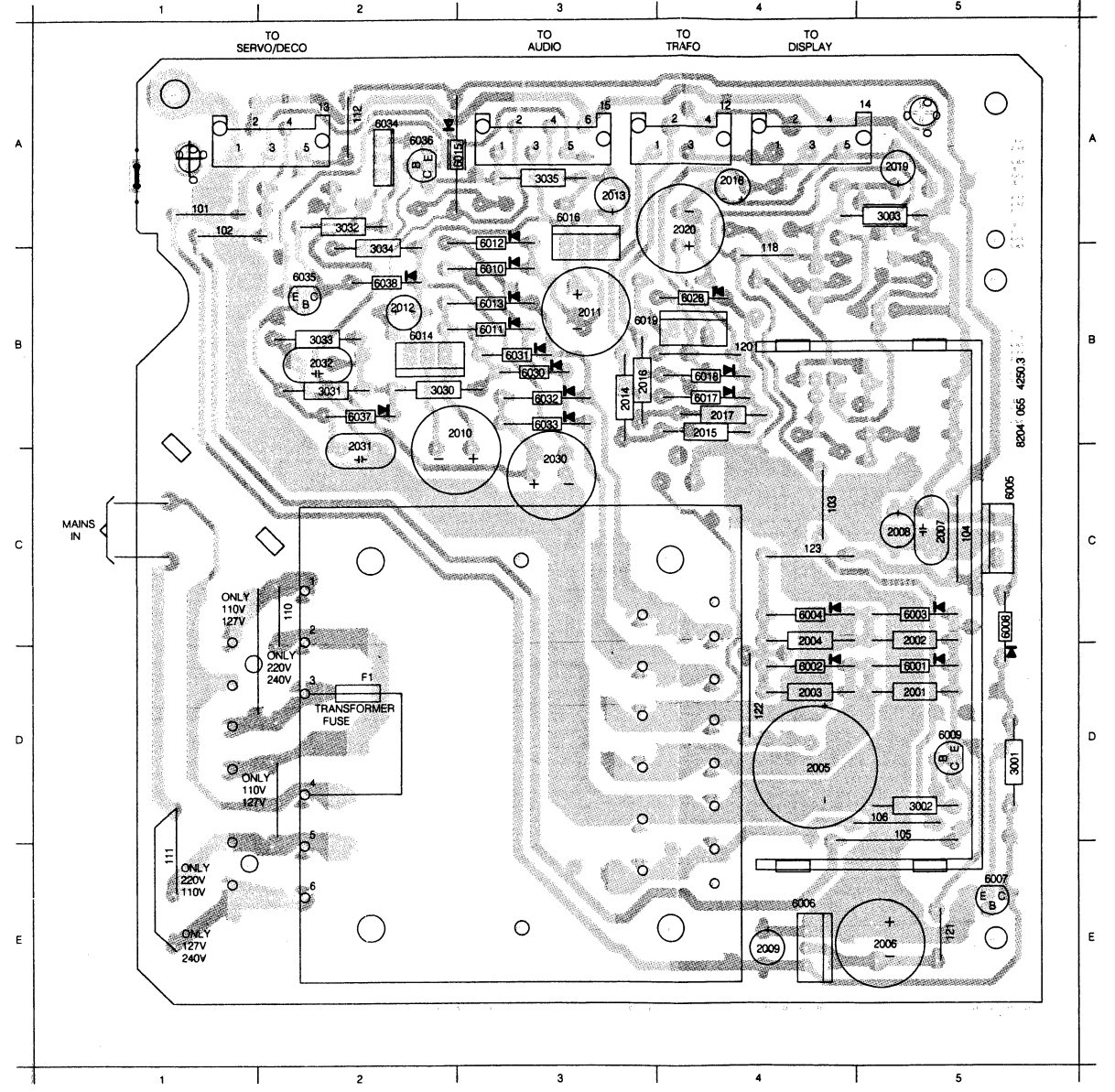


* SEE LABEL
NOTE: a defect fuse must be replaced by a fuse with the same specification

MDA.01616
T28/841

POWER AND HEADPHONE PANEL

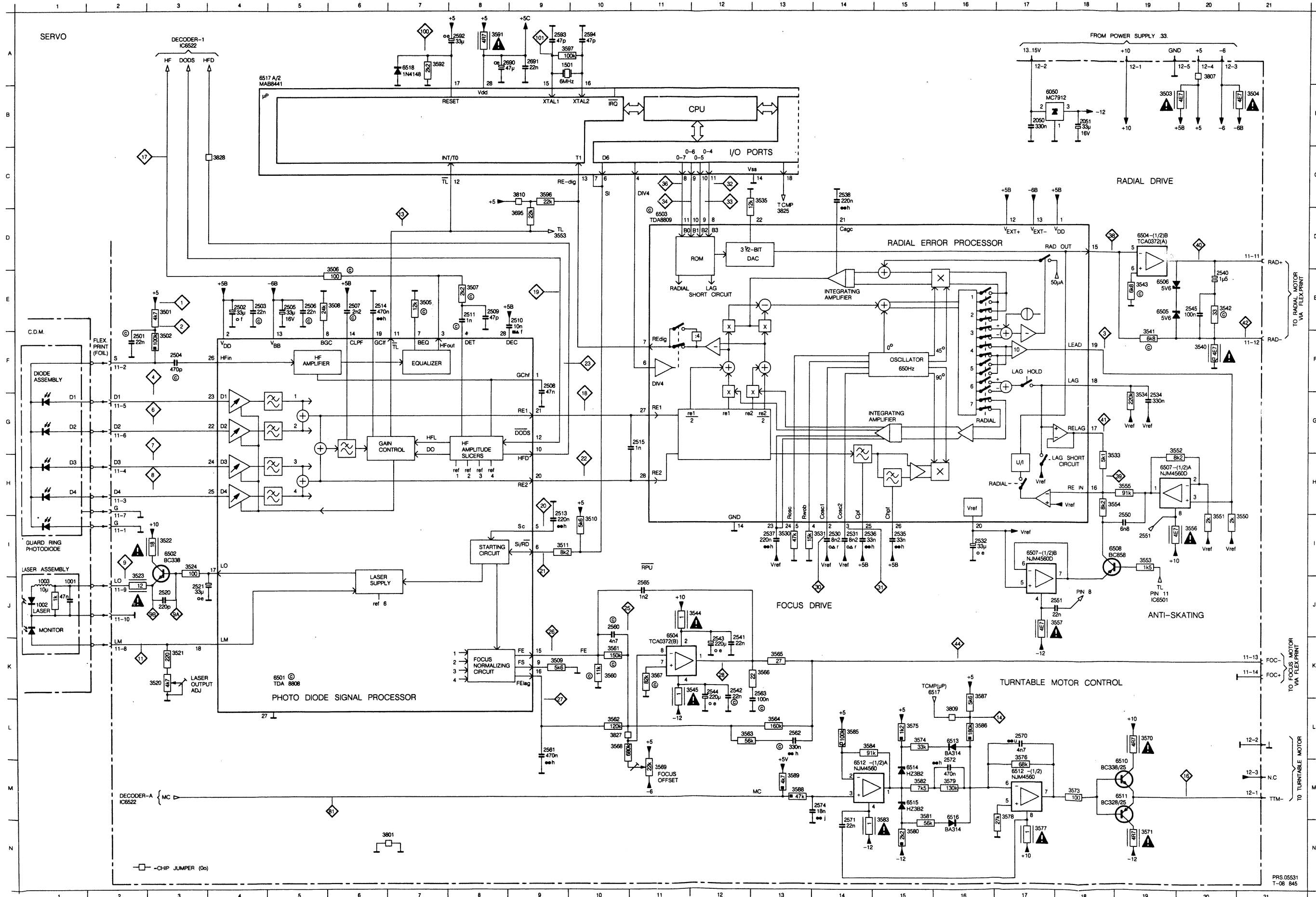
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|-----|-----|-----|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|----|-----|
| 101 | A 1 | 112 | A 2 | 14 | A 4 | 2007 | C 5 | 2015 | B 4 | 2032 | B 2 | 3034 | B 2 | 6007 | E 5 | 6015 | A 3 | 6032 | B 3 | F1 | D 2 |
| 102 | A 1 | 118 | B 4 | 15 | A 3 | 2008 | C 5 | 2016 | B 3 | 3001 | D 5 | 3035 | A 3 | 6008 | C 5 | 6016 | A 3 | 6033 | B 3 | | |
| 103 | C 4 | 12 | A 4 | 2001 | D 5 | 2009 | E 4 | 2017 | B 4 | 3002 | D 5 | 6001 | D 5 | 6009 | D 5 | 6017 | B 4 | 6034 | A 2 | | |
| 104 | C 5 | 120 | B 4 | 2002 | C 5 | 2010 | B 2 | 2018 | A 4 | 3003 | A 5 | 6002 | D 4 | 6010 | B 3 | 6018 | B 4 | 6035 | B 2 | | |
| 105 | D 5 | 121 | E 5 | 2003 | D 4 | 2011 | B 3 | 2019 | A 5 | 3030 | B 2 | 6003 | C 5 | 6011 | B 3 | 6019 | B 3 | 6036 | A 2 | | |
| 106 | D 5 | 122 | D 4 | 2004 | C 4 | 2012 | B 2 | 2020 | A 4 | 3031 | B 2 | 6004 | A 3 | 6012 | A 3 | 6028 | B 4 | 6037 | B 2 | | |
| 110 | C 2 | 123 | C 4 | 2005 | D 4 | 2013 | A 3 | 2030 | C 3 | 3032 | A 2 | 6005 | C 5 | 6013 | B 3 | 6030 | B 3 | 6038 | B 2 | | |
| 111 | E 1 | 13 | A 2 | 2006 | E 5 | 2014 | B 3 | 2031 | B 2 | 3033 | B 2 | 6006 | E 4 | 6014 | B 2 | 6031 | B 3 | 8204 | B 5 | | |



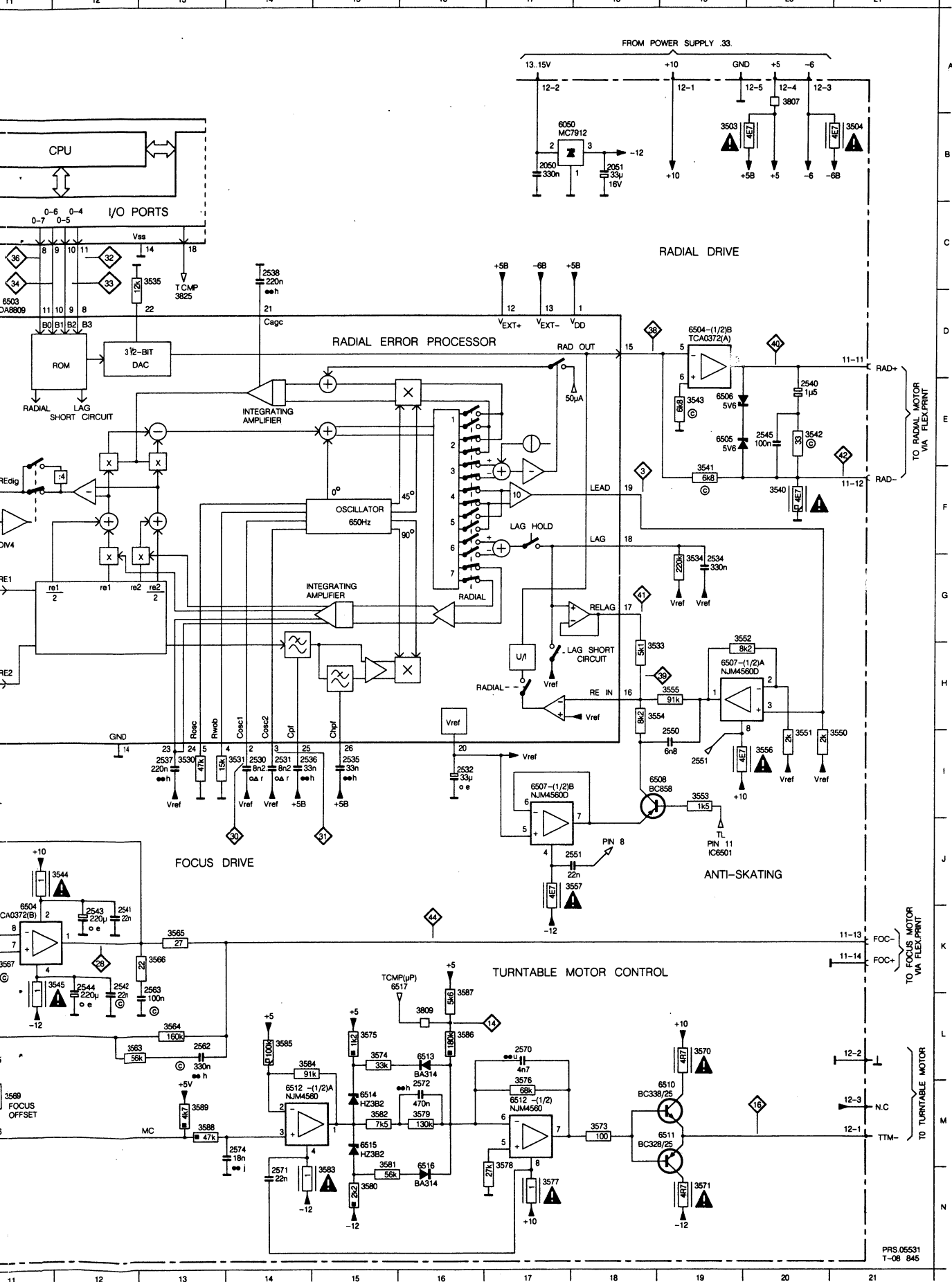
POWER SUPPLY

SERVO DIAGRAM

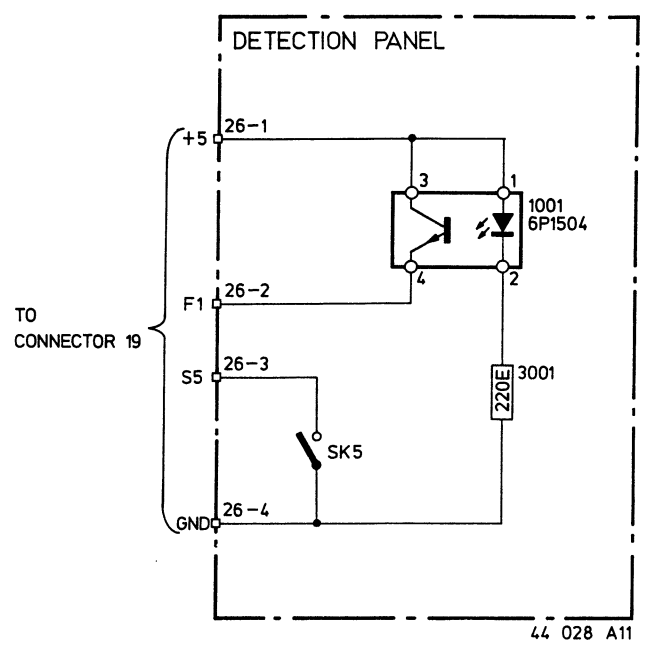
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|------|------|------|-----|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| 1001 | J 1 | 2501 | F 2 | 2507 | E 6 | 2514 | E 6 | 2532 | I 16 | 2540 | E 20 | 2550 | I 19 | 2565 | J 11 | 2593 | A 9 | 3503 | B 19 | 3509 | K 9 | 3523 | I 2 | 3535 | C 13 | 3545 | K 12 | 3555 | H 19 | 3563 | L 12 | 3569 | M 11 | 3576 | L 17 | 3582 | M 15 | 3588 | M 13 | 3695 | D 9 | 3828 | C 4 | 6504 | J 11 | 6510 | M 19 | 6515 | M 5 |
| 1002 | J 1 | 2502 | E 4 | 2508 | F 9 | 2515 | G 11 | 2534 | G 19 | 2541 | K 12 | 2551 | J 18 | 2570 | L 17 | 2594 | A 10 | 3504 | B 21 | 3510 | I 10 | 3524 | I 3 | 3540 | F 20 | 3550 | I 21 | 3556 | I 20 | 3564 | L 13 | 3570 | L 19 | 3577 | N 17 | 3583 | N 15 | 3589 | M 13 | 3801 | N 7 | 6050 | B 17 | 6505 | E 19 | 6511 | M 19 | 6516 | M 6 |
| 1003 | J 1 | 2503 | E 4 | 2509 | E 8 | 2520 | J 3 | 2535 | I 15 | 2542 | K 12 | 2560 | J 10 | 2571 | N 14 | 2690 | A 9 | 3505 | E 7 | 3511 | I 9 | 3541 | F 19 | 3551 | I 20 | 3557 | J 18 | 3565 | K 13 | 3571 | M 18 | 3578 | M 17 | 3584 | L 14 | 3591 | A 8 | 3807 | A 20 | 6501 | K 5 | 6506 | E 19 | 6512 | M 17 | 6517 | A 5 | | |
| 1501 | A 9 | 2504 | F 3 | 2510 | E 9 | 2521 | J 3 | 2536 | I 15 | 2543 | K 12 | 2561 | L 9 | 2572 | M 16 | 2691 | A 9 | 3506 | E 6 | 3512 | K 3 | 3542 | E 20 | 3552 | G 20 | 3560 | K 10 | 3566 | K 13 | 3573 | M 18 | 3579 | M 16 | 3585 | L 14 | 3592 | A 7 | 3809 | L 16 | 6502 | I 3 | 6507 | H 19 | 6512 | M 4 | 6518 | A 7 | | |
| 2050 | B 17 | 2505 | E 5 | 2511 | E 8 | 2518 | I 14 | 2537 | I 13 | 2544 | K 12 | 2562 | L 13 | 2574 | M 14 | 3501 | E 3 | 3507 | E 8 | 3521 | K 3 | 3543 | E 19 | 3553 | I 19 | 3561 | K 10 | 3567 | K 11 | 3574 | L 15 | 3580 | N 15 | 3586 | L 16 | 3596 | C 9 | 3810 | C 9 | 6503 | D 11 | 6507 | I 17 | 6513 | L 16 | | | | |
| 2051 | B 18 | 2506 | E 5 | 2513 | H 9 | 2531 | I 14 | 2538 | C 14 | 2545 | E 20 | 2563 | K 13 | 2592 | A 8 | 3502 | F 3 | 3508 | E 6 | 3522 | I 3 | 3534 | G 19 | 3544 | J 12 | 3554 | H 19 | 3562 | L 10 | 3568 | L 10 | 3575 | L 15 | 3581 | M 5 | 3587 | K 16 | 3597 | A 9 | 3827 | L 10 | 6504 | D 19 | 6508 | I 19 | 6514 | M 5 | | |



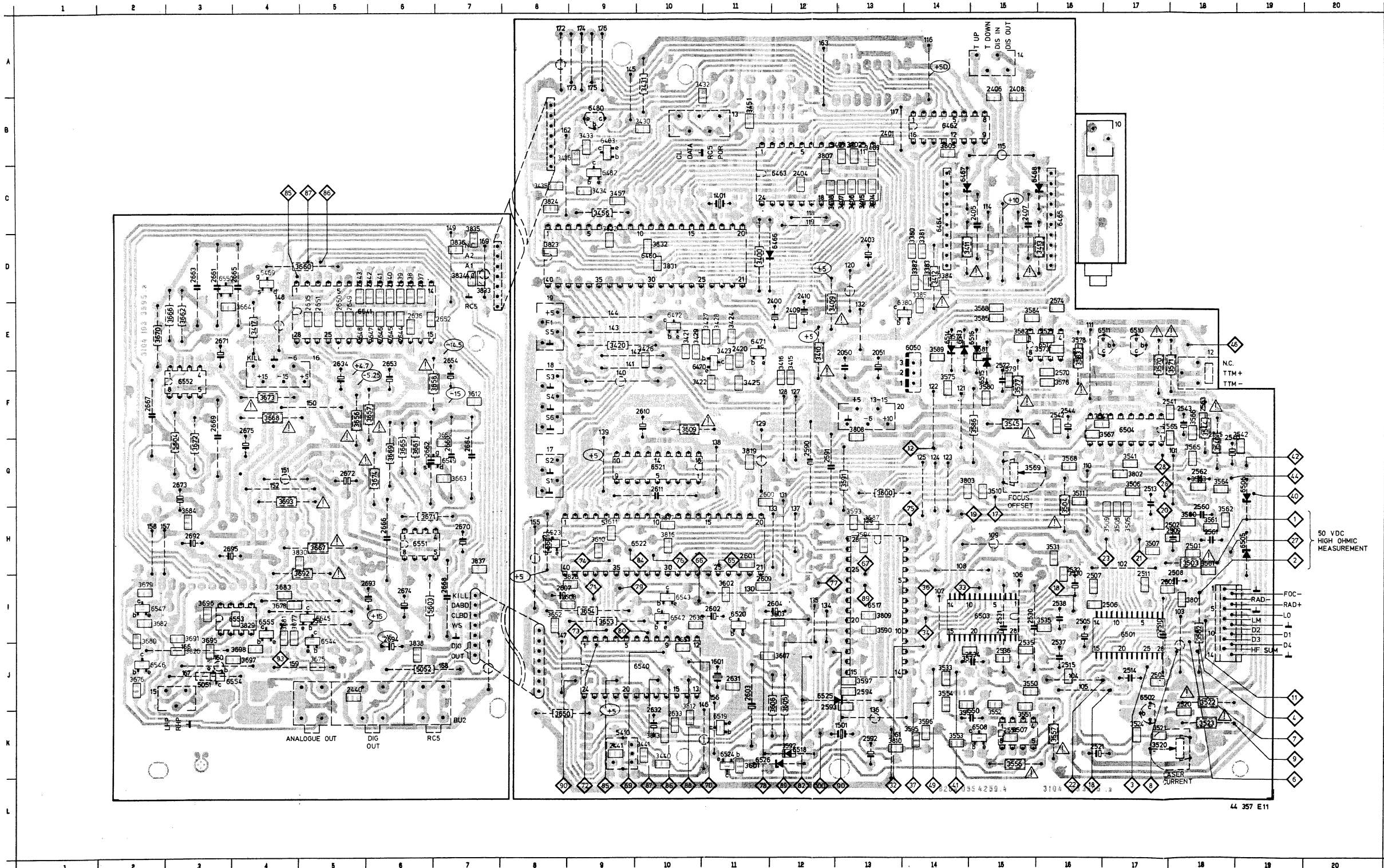
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|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|
| C13 | 3545 | K12 | 3555 | H19 | 3563 | L12 | 3569 | M11 | 3576 | L17 | 3582 | M15 | 3588 | M13 | 3695 | D 9 | 3828 | C 4 | 6504 | J11 | 6510 | M19 | 6515 | M15 |
| F20 | 3550 | I20 | 3556 | I20 | 3564 | L13 | 3570 | L19 | 3577 | M17 | 3583 | N15 | 3589 | A 8 | 3801 | N 7 | 6050 | B17 | 6505 | E19 | 6511 | M19 | 6516 | M16 |
| F19 | 3551 | I20 | 3557 | J18 | 3565 | K13 | 3571 | N19 | 3578 | M17 | 3584 | L14 | 3591 | A 8 | 3807 | A20 | 6501 | K 5 | 6506 | E19 | 6512 | M17 | 6517 | A 5 |
| E20 | 3552 | G20 | 3560 | K10 | 3566 | K13 | 3573 | M18 | 3579 | M16 | 3585 | L14 | 3592 | A 7 | 3809 | L16 | 6502 | L 3 | 6507 | H19 | 6513 | M14 | 6518 | A 7 |
| E19 | 3553 | I19 | 3561 | K10 | 3567 | K11 | 3574 | L15 | 3580 | M15 | 3586 | L16 | 3596 | C 9 | 3810 | C 9 | 6503 | D11 | 6507 | I17 | 6513 | L16 | | |
| J12 | 3554 | H19 | 3562 | L10 | 3568 | L10 | 3575 | L15 | 3581 | M15 | 3587 | K16 | 3597 | A 9 | 3827 | L10 | 6504 | D19 | 6508 | I19 | 6514 | M15 | | |



POSITION DETECTION PANEL



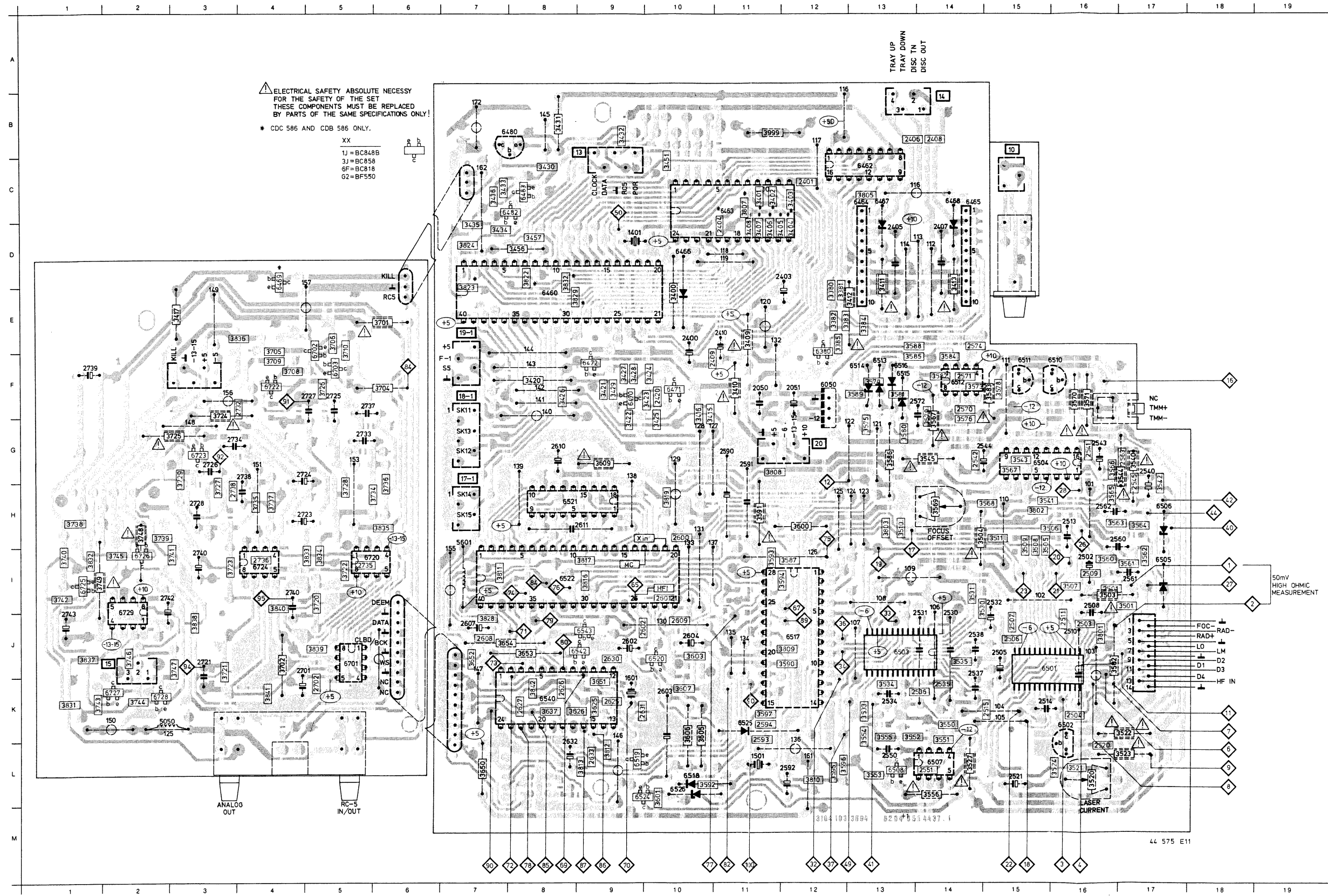
AUDIO PANEL



| | | | | | | | |
|------|-----|------|-----|------|-----|------|-----|
| 1401 | C11 | 2691 | I 3 | 3595 | K14 | 6546 | J 2 |
| 1501 | K13 | 2692 | H 3 | 3596 | K14 | 6547 | T 2 |
| 1501 | J11 | 2693 | H 6 | 3597 | O13 | 6548 | O 2 |
| 2050 | E13 | 2694 | I 6 | 3601 | K11 | 6550 | O 3 |
| 2050 | E13 | 2695 | H 3 | 3602 | I11 | 6551 | H 6 |
| 2051 | E13 | 3380 | C14 | 3603 | I12 | 6552 | E 3 |
| 2400 | D12 | 3381 | C14 | 3604 | J12 | | |
| 2401 | B13 | 3382 | D14 | 3606 | J12 | | |
| 2402 | R12 | 3383 | D14 | 3607 | J12 | | |
| 2403 | C13 | 3384 | D14 | 3609 | F10 | | |
| 2404 | B12 | 3385 | D14 | 3610 | H 6 | | |
| 2405 | C15 | 3400 | D11 | 3611 | H 9 | | |
| 2406 | R15 | 3401 | B13 | 3612 | F 7 | | |
| 2407 | C15 | 3402 | B13 | 3650 | F 7 | | |
| 2408 | R15 | 3403 | B13 | 3650 | J 8 | | |
| 2409 | D12 | 3404 | C13 | 3651 | I10 | | |
| 2410 | D12 | 3405 | C13 | 3652 | I 8 | | |
| 2420 | E17 | 3406 | C13 | 3653 | I 8 | | |
| 2428 | E10 | 3407 | C13 | 3654 | I 8 | | |
| 2440 | J 5 | 3408 | C12 | 3656 | F 5 | | |
| 2441 | K 9 | 3409 | D13 | 3657 | F 6 | | |
| 2501 | H12 | 3410 | E17 | 3658 | E 3 | | |
| 2502 | H18 | 3411 | D15 | 3660 | D 5 | | |
| 2503 | I18 | 3412 | D14 | 3661 | F 6 | | |
| 2504 | J17 | 3413 | D16 | 3662 | D 3 | | |
| 2505 | I17 | 3415 | D16 | 3662 | D 3 | | |
| 2506 | I17 | 3416 | E12 | 3665 | F 6 | | |
| 2507 | H16 | 3417 | E 4 | 3686 | D 3 | | |
| 2508 | H18 | 3420 | E 9 | 3667 | H 5 | | |
| 2509 | H18 | 3421 | E 9 | 3668 | H 5 | | |
| 2509 | H11 | 3422 | F10 | 3669 | D 6 | | |
| 2510 | I17 | 3423 | E11 | 3670 | E 2 | | |
| 2511 | H17 | 3424 | E11 | 3671 | E 2 | | |
| 2513 | G17 | 3425 | F11 | 3672 | E 2 | | |
| 2514 | J17 | 3427 | E11 | 3673 | F 4 | | |
| 2515 | J16 | 3428 | E11 | 3674 | O 6 | | |
| 2520 | J18 | 3429 | E10 | 3675 | J 5 | | |
| 2521 | K11 | 3430 | B10 | 3676 | J 5 | | |
| 2530 | I16 | 3431 | A10 | 3677 | I 5 | | |
| 2531 | I15 | 3432 | A11 | 3678 | I 4 | | |
| 2532 | H16 | 3433 | B 9 | 3679 | I 2 | | |
| 2534 | J15 | 3434 | C 9 | 3680 | I 2 | | |
| 2535 | I15 | 3435 | C 8 | 3681 | I 2 | | |
| 2536 | I15 | 3436 | B 8 | 3682 | I 2 | | |
| 2537 | I16 | 3440 | K10 | 3690 | I 3 | | |
| 2538 | F18 | 3441 | K10 | 3690 | I 3 | | |
| 2540 | F18 | 3451 | A11 | 3592 | M 5 | | |
| 2541 | F17 | 3452 | A11 | 3593 | G 4 | | |
| 2542 | F19 | 3454 | A12 | 3601 | I18 | | |
| 2543 | F18 | 3455 | R12 | 3602 | G17 | | |
| 2544 | F16 | 3468 | B16 | 3603 | G15 | | |
| 2545 | F18 | 3501 | H17 | 3604 | B14 | | |
| 2550 | J15 | 3502 | H18 | 3606 | R12 | | |
| 2551 | K15 | 3503 | H18 | 3607 | R12 | | |
| 2560 | G18 | 3504 | G16 | 3608 | F13 | | |
| 2561 | H18 | 3505 | H17 | 3609 | I13 | | |
| 2562 | F18 | 3506 | G17 | 3610 | K13 | | |
| 2562 | G18 | 3507 | H17 | 3612 | I10 | | |
| 2565 | F18 | 3508 | H17 | 3613 | K10 | | |
| 2570 | E18 | 3509 | H17 | 3614 | K10 | | |
| 2571 | E16 | 3510 | G15 | 3617 | M10 | | |
| 2572 | E15 | 3511 | G16 | 3619 | G11 | | |
| 2574 | D16 | 3520 | K11 | 3622 | C 3 | | |
| 2590 | F17 | 3521 | K17 | 3626 | J 3 | | |
| 2591 | G12 | 3522 | J18 | 3626 | J 3 | | |
| 2592 | K13 | 3523 | K18 | 3628 | H 9 | | |
| 2600 | G11 | 3524 | K17 | 3630 | C 3 | | |
| 2601 | H11 | 3526 | H16 | 3640 | K 9 | | |
| 2602 | I11 | 3533 | J14 | 3545 | I 5 | | |
| 2603 | J11 | 3534 | J15 | 3601 | H 8 | | |
| 2604 | I12 | 3535 | I12 | 3603 | F 7 | | |
| 2607 | H 9 | 3540 | F18 | 3604 | C 3 | | |
| 2608 | I 9 | 3541 | D17 | 3610 | E14 | | |
| 2610 | F10 | 3544 | F18 | 3610 | E14 | | |
| 2611 | G10 | 3545 | F15 | 3610 | E14 | | |
| 2630 | I10 | 3550 | J15 | 3611 | R13 | | |
| 2631 | J11 | 3551 | J15 | 3612 | R14 | | |
| 2632 | J10 | 3552 | J15 | 3613 | R12 | | |
| 2633 | J10 | 3553 | K14 | 3614 | E14 | | |
| 2634 | E 5 | 3554 | J14 | 3615 | E16 | | |
| 2635 | D 5 | 3555 | G18 | 3616 | E12 | | |
| 2636 | E 6 | 3555 | J15 | 3616 | E12 | | |
| 2637 | F 6 | 3556 | K15 | 3619 | E 4 | | |
| 2638 | D 6 | 3557 | K16 | 3620 | E10 | | |
| 2639 | D 6 | 3560 | H18 | 3621 | E11 | | |
| 2640 | D 6 | 3561 | H18 | 3622 | E11 | | |
| 2641 | D 6 | 3562 | G18 | 3623 | E 9 | | |
| 2642 | D 6 | 3563 | G18 | 3623 | E 9 | | |
| 2643 | D 6 | 3564 | G18 | 3623 | E 9 | | |
| 2644 | D 6 | 3565 | F18 | 3624 | E11 | | |
| 2645 | E 6 | 3567 | F17 | 3602 | I17 | | |
| 2646 | E 6 | 3568 | E16 | 3603 | I15 | | |
| 2647 | E 6 | 3569 | E15 | 3604 | F17 | | |
| 2648 | E 6 | 3570 | E17 | 3605 | O19 | | |
| 2649 | D 5 | 3571 | E18 | 3607 | K15 | | |
| 2650 | D 5 | 3573 | E16 | 3608 | K15 | | |
| 2651 | D 5 | 3574 | E14 | 3610 | E17 | | |
| 2652 | F 7 | 3575 | E14 | 3611 | E17 | | |
| 2653 | F 6 | 3576 | F16 | 3612 | E16 | | |
| 2654 | F 7 | 3577 | F15 | 3613 | E14 | | |
| 2660 | F 6 | 3578 | E16 | 3614 | E14 | | |
| 2661 | D 3 | 3579 | E15 | 3615 | E15 | | |
| 2662 | F 6 | 3580 | F15 | 3617 | I13 | | |
| 2663 | D 3 | 3581 | E15 | 3618 | K12 | | |
| 2664 | D 4 | 3582 | E15 | 3620 | J11 | | |
| 2665 | D 4 | 3583 | E18 | 3620 | J11 | | |
| 2666 | H 6 | 3584 | E15 | 3621 | O10 | | |
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| 2668 | H 3 | 3586 | F15 | 3623 | H 8 | | |
| 2669 | H 3 | 3587 | F15 | 3624 | H11 | | |
| 2670 | H 7 | 3588 | E15 | 3625 | J12 | | |
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| 2673 | F 6 | 3591 | G13 | 3628 | E 6 | | |
| 2674 | F 6 | 3592 | K12 | 3628 | E10 | | |
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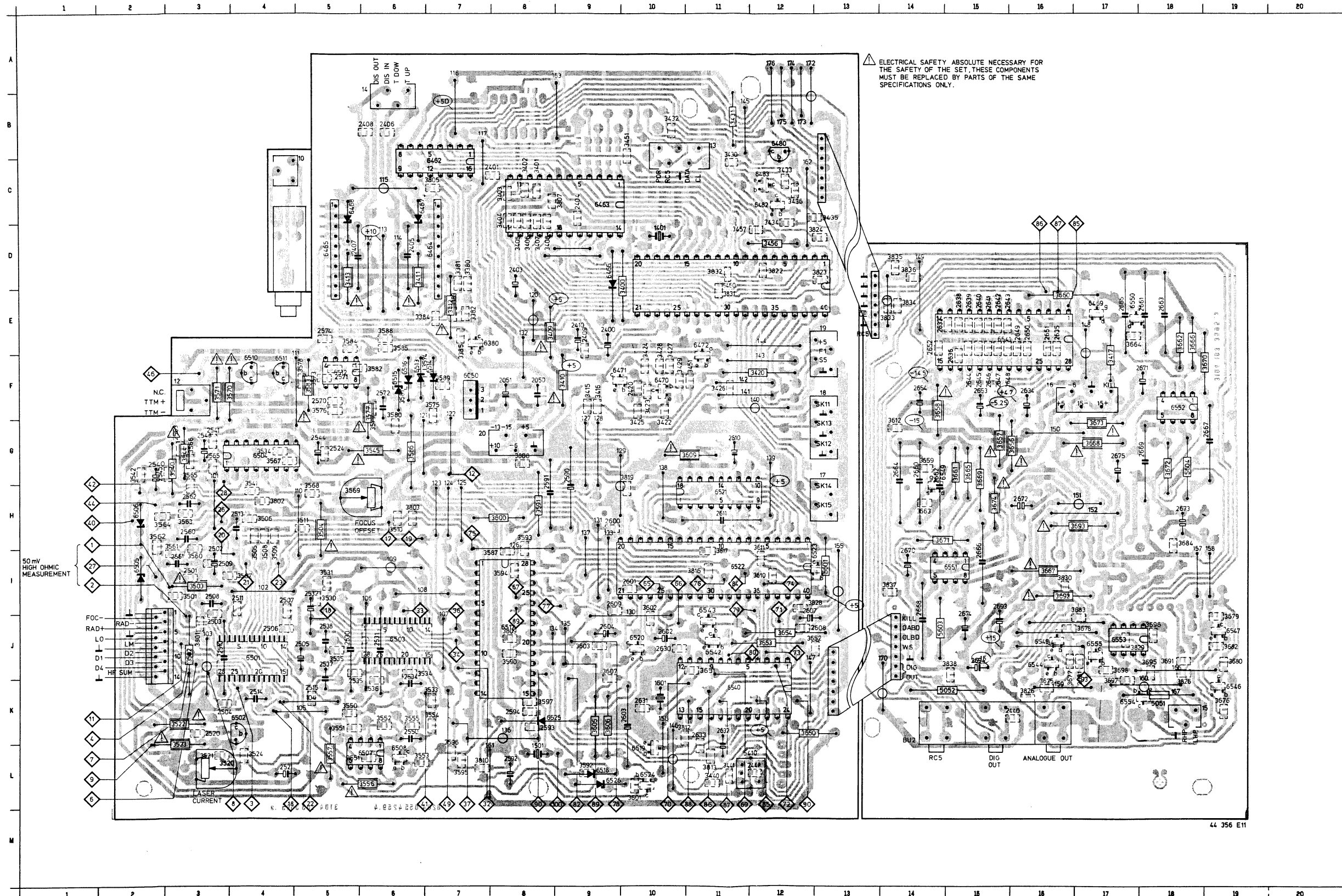
SERVO & DECODER PANEL

VERSIONS CDB581/17R, CDB583/17R AND CDC586/30R

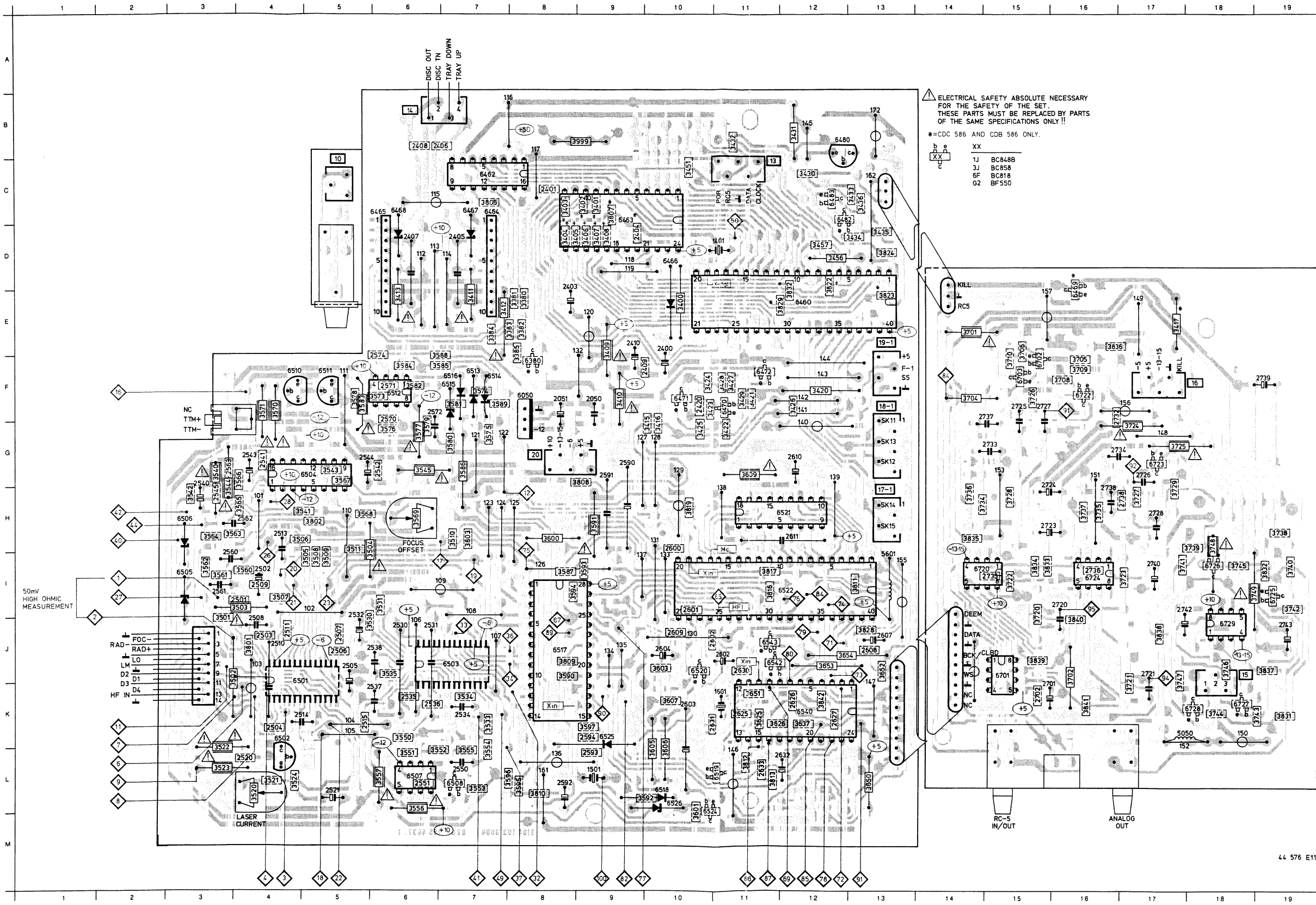


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| 1401 | D 9 | 3413 | D14 | 3725 | G 3 |
| 1501 | L11 | 3415 | F11 | 3726 | F 5 |
| 1601 | J 9 | 3416 | F10 | 3727 | H 3 |
| 17-1 | G 7 | 3417 | E 3 | 3728 | G 5 |
| 18-1 | F 7 | 3420 | F 9 | 3729 | G 9 |
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| 2051 | F12 | 3423 | F10 | 3736 | G 6 |
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| 2401 | C12 | 3425 | F10 | 3738 | H 1 |
| 2403 | D12 | 3425 | F10 | 3738 | H 4 |
| 2404 | C11 | 3426 | F 8 | 3739 | H 2 |
| 2405 | D13 | 3427 | F 9 | 3740 | I 1 |
| 2406 | B14 | 3428 | F 9 | 3741 | I 3 |
| 2407 | D14 | 3429 | F 9 | 3742 | I 1 |
| 2408 | B14 | 3430 | C 8 | 3743 | K 2 |
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| 2410 | E11 | 3432 | B 9 | 3745 | I 2 |
| 2420 | F10 | 3433 | C 8 | 3746 | J 2 |
| 2501 | I17 | 3434 | D 7 | 3747 | J 3 |
| 2502 | I16 | 3435 | C 7 | 3748 | H 2 |
| 2503 | J16 | 3436 | C 7 | 3749 | I 2 |
| 2504 | K16 | 3437 | C 7 | 3801 | J16 |
| 2505 | J15 | 3456 | D 8 | 3802 | H15 |
| 2506 | J15 | 3457 | D 8 | 3803 | H13 |
| 2507 | J15 | 3501 | I17 | 3805 | C13 |
| 2508 | I16 | 3502 | I17 | 3807 | C11 |
| 2509 | I16 | 3503 | I17 | 3808 | G11 |
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| 2551 | I14 | 3543 | G15 | 3838 | J 3 |
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| 2561 | I17 | 3550 | K14 | 3841 | K 4 |
| 2562 | H16 | 3551 | K14 | 3842 | K 8 |
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| 2571 | F14 | 3553 | L13 | 5050 | K 3 |
| 2572 | L14 | 3554 | K13 | 5051 | H 7 |
| 2574 | E14 | 3555 | K13 | 6050 | F12 |
| 2590 | G11 | 3556 | L14 | 6380 | E12 |
| 2591 | G11 | 3560 | I16 | 6460 | E 8 |
| 2592 | L12 | 3562 | I17 | 6462 | C13 |
| 2593 | K11 | 3562 | I17 | 6463 | C11 |
| 2594 | K11 | 3563 | H17 | 6464 | C13 |
| 2600 | H10 | 3564 | H17 | 6465 | C14 |
| 2601 | I10 | 3565 | H17 | 6466 | D10 |
| 2602 | J 9 | 3566 | G17 | 6467 | C13 |
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| 2603 | K10 | 3567 | G15 | 6469 | D 4 |
| 2604 | J10 | 3568 | H15 | 6470 | F 9 |
| 2607 | J 7 | 3569 | H14 | 6471 | F10 |
| 2608 | J 7 | 3570 | F16 | 6472 | F 9 |
| 2609 | J10 | 3571 | F16 | 6480 | B 8 |
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| 2627 | K 8 | 3579 | F14 | 6503 | J13 |
| 2630 | J 9 | 3580 | G13 | 6504 | G15 |
| 2631 | I10 | 3581 | F13 | 6505 | I17 |
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| 2728 | H 3 | 3592 | L11 | 6517 | J12 |
| 2732 | F 4 | 3594 | I12 | 6518 | L10 |
| 3403 | G 5 | 3595 | L12 | 6519 | L10 |
| 2734 | G 4 | 3596 | L13 | 6520 | J10 |
| 2735 | I 5 | 3597 | K11 | 6521 | H 9 |
| 2736 | I 4 | 3600 | H12 | 6522 | I 8 |
| 2737 | H 6 | 3601 | L10 | 6524 | L10 |
| 2738 | G 4 | 3603 | J10 | 6525 | K11 |
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| 2740 | H 3 | 3608 | K10 | 6540 | K 8 |
| 2741 | I 4 | 3601 | K10 | 6542 | F 9 |
| 2742 | I 3 | 3609 | G 9 | 6543 | J 9 |
| 2743 | I 1 | 3625 | K 9 | 6701 | J 5 |
| 3380 | D12 | 3626 | K 9 | 6702 | E 5 |
| 3381 | D13 | 3631 | K 8 | 6703 | F 5 |
| 3382 | E12 | 3650 | F 7 | 6720 | I 6 |
| 3383 | E13 | 3651 | K 9 | 6722 | F 4 |
| 3384 | E13 | 3652 | J 7 | 6723 | G 3 |
| 3385 | E12 | 3653 | J 8 | 6724 | I 1 |
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| 3401 | C11 | 3674 | F13 | 6726 | I 2 |
| 3402 | C11 | 3701 | E 6 | 6727 | K 2 |
| 3403 | C12 | 3702 | J 4 | 6728 | K 2 |
| 3404 | D12 | 3704 | F 6 | 6729 | H 7 |
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| 3406 | D11 | 3706 | E 5 | SK 12 | G 7 |
| 3407 | D11 | 3708 | F 4 | SK 13 | G 7 |
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AUDIO PANEL



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| 1601 | K10 | 3403 | C 8 | 3654 | J12 |
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| 2051 | F 8 | 3405 | D 8 | 3657 | O15 |
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| 2591 | O 8 | 3534 | J 7 | 6462 | B 7 |
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| 2601 | J10 | 3541 | O 4 | 6484 | O 7 |
| 2602 | J10 | 3542 | O 2 | 6485 | O 5 |
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| 2645 | F15 | 3573 | F 5 | 6515 | F 5 |
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| 2664 | O14 | 3588 | E 6 | 6543 | J1 |
| 2665 | E17 | 3589 | F 7 | 6544 | J6 |
| 2666 | H15 | 3590 | J 8 | 6545 | J 6 |
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| 2681 | J18 | 3602 | L10 | | |
| 2682 | I18 | 3603 | J 9 | | |
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| 2685 | I17 | 3606 | K 9 | | |
| 3380 | D 7 | 3607 | J 9 | | |
| 3381 | D 7 | 3609 | O10 | | |
| 3382 | E 7 | 3610 | I12 | | |
| 3383 | E 7 | 3611 | H12 | | |
| 3384 | E 6 | 3612 | H12 | | |
| 3385 | E 7 | 3650 | K12 | | |



⚠ ELECTRICAL SAFETY ABSOLUTE NECESSARY FOR THE SAFETY OF THE SET. THESE PARTS MUST BE REPLACED BY PARTS OF THE SAME SPECIFICATIONS ONLY !!

*=CDC 586 AND CDB 586 ONLY.

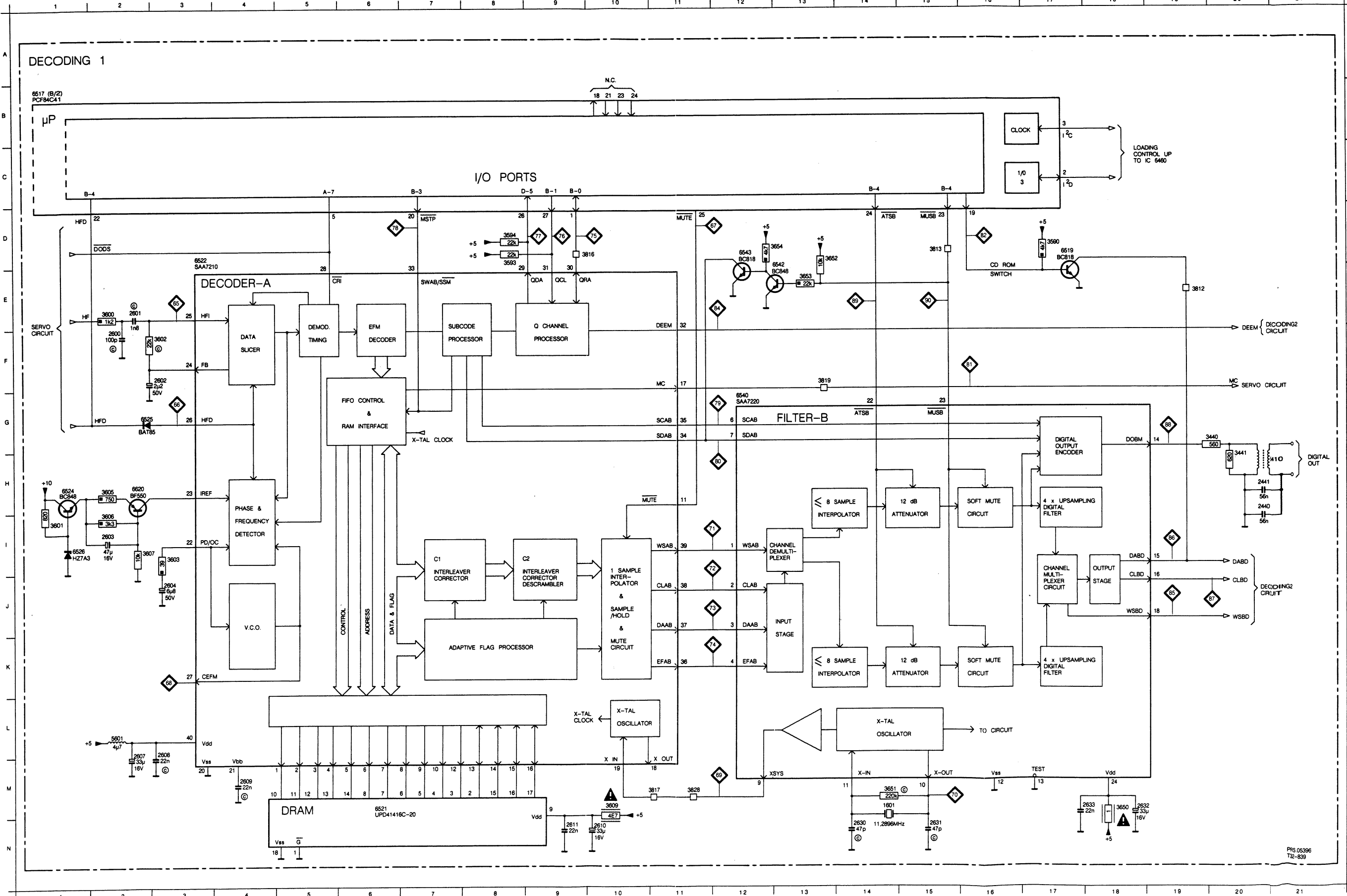
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| 1501 | L 9 | 3413 | D 6 | 3725 | G17 |
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| A 17-1 | G13 | 3416 | F10 | 3727 | H17 |
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| 19-1 | E13 | 3420 | F12 | 3729 | G17 |
| 20 | G 8 | 3421 | F11 | 3734 | H14 |
| 2050 | F 9 | 3422 | F11 | 3735 | H16 |
| 2051 | F 8 | 3423 | F10 | 3736 | G14 |
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| 2403 | C 8 | 3425 | F10 | 3738 | H16 |
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| 2509 | J 4 | 3503 | K 6 | 3808 | C 9 |
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| 2554 | G 6 | 3544 | G 3 | 3839 | J15 |
| 2560 | I 3 | 3545 | G 6 | 3840 | I 16 |
| 2561 | I 3 | 3550 | K 6 | 3841 | K16 |
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| 2590 | G 9 | 3556 | L 6 | 6380 | E 8 |
| 2591 | G 9 | 3560 | I 4 | 6460 | E12 |
| 2592 | K 8 | 3561 | I 3 | 6462 | C 7 |
| 2594 | K 9 | 3563 | H 3 | 6464 | C 7 |
| 2600 | H10 | 3564 | H 3 | 6465 | C 6 |
| 2601 | I10 | 3565 | H 3 | 6466 | D16 |
| 2602 | J10 | 3567 | G 6 | 6468 | C 6 |
| 2603 | K10 | 3567 | H 5 | 6469 | F11 |
| 2604 | J10 | 3568 | H 5 | 6470 | F11 |
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| 2608 | J10 | 3570 | F 4 | 6472 | F11 |
| 2609 | J10 | 3571 | F 4 | 6480 | B12 |
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| 2611 | H11 | 3575 | G 7 | 6483 | C11 |
| 2625 | K11 | 3576 | F 6 | 6501 | K 4 |
| 2626 | K12 | 3578 | F 5 | 6502 | K 4 |
| 2627 | K12 | 3579 | F 5 | 6503 | J 7 |
| 2630 | J11 | 3580 | G 7 | 6504 | G 5 |
| 2631 | K10 | 3581 | F 7 | 6505 | F 3 |
| 2632 | K11 | 3582 | F 6 | 6506 | H 3 |
| 2633 | L11 | 3583 | F 5 | 6507 | L 7 |
| 2701 | J15 | 3584 | F 6 | 6508 | L 7 |
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| 3381 | F 7 | 3637 | K12 | 6703 | F15 |
| 3382 | E 8 | 3650 | L13 | 6720 | I14 |
| 3383 | E 7 | 3651 | K11 | 6722 | F16 |
| 3384 | E 7 | 3652 | J13 | 6723 | G17 |
| 3385 | E 7 | 3653 | L12 | 6724 | I16 |
| 3404 | E10 | 3654 | L12 | 6725 | I16 |
| 3401 | C 9 | 3674 | F 7 | 6726 | I18 |
| 3402 | C 9 | 3701 | E14 | 6727 | K18 |
| 3403 | C 8 | 3702 | J16 | 6728 | K18 |
| 3404 | B 8 | 3704 | F14 | 6729 | I18 |
| 3405 | D 8 | 3705 | E16 | SK11 | F13 |
| 3406 | D 9 | 3706 | E15 | SK12 | G13 |
| 3407 | D 9 | 3708 | F16 | SK13 | G13 |
| 3408 | D 9 | 3709 | F16 | SK14 | H13 |
| | | 3710 | E15 | SK15 | H13 |
| | | 3720 | I15 | | |

44 576 E11

DECODING DIAGRAM

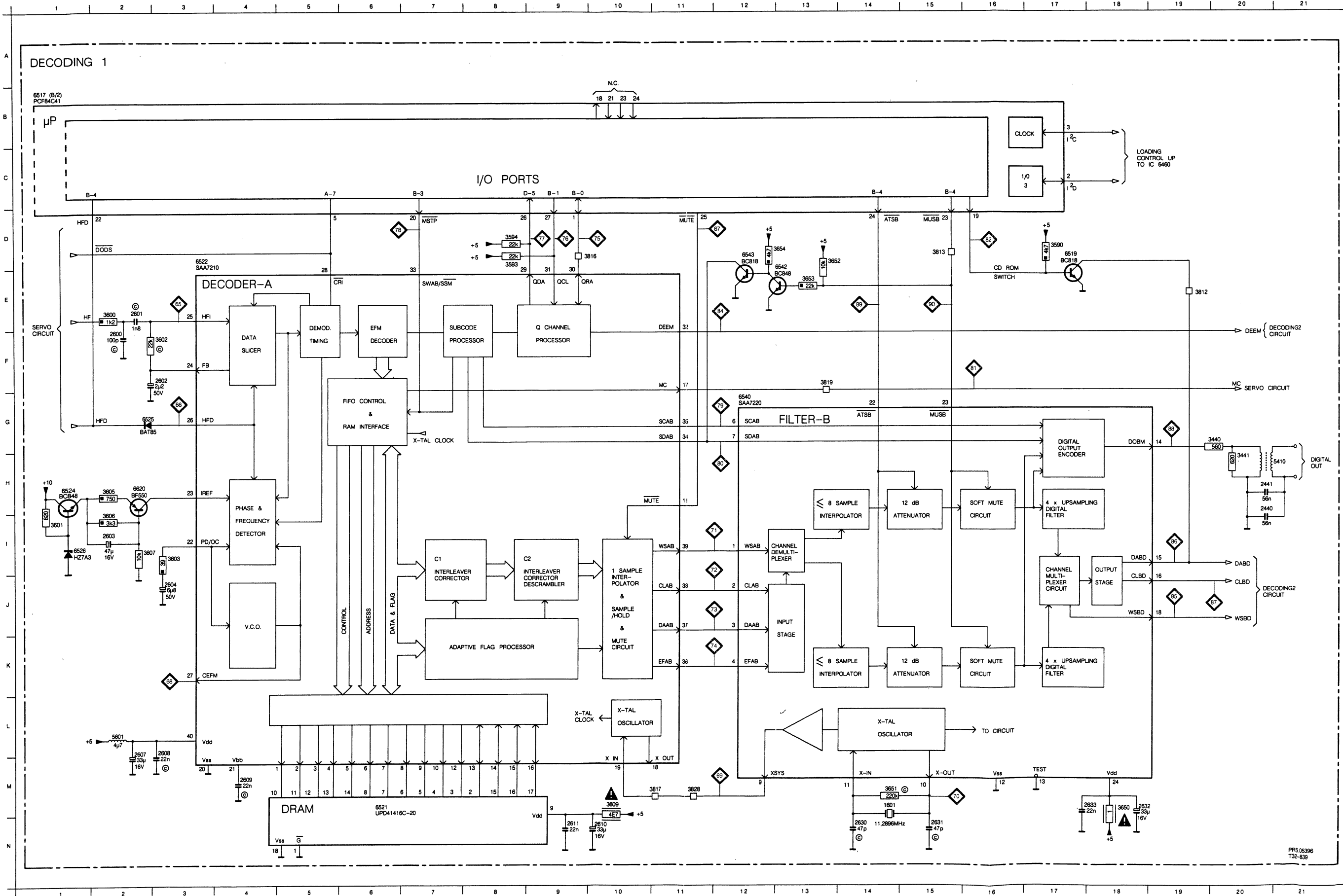
1601 M14 2441 H20 2601 E 2 2603 J 2 2607 L 2 2609 M 4 2611 N 9 2631 N15 2633 M18 3441 H20 3593 D 8 3600 E 2 3602 F 3 3605 H 2 3607 I 2 3609 M10 3650 M18 3652 D13 3654 D13 3813 D15 3817 M11 3828 M1 5601 L 2 6519 D17 6522 D 3 6525 G 2 6540 G12 6543 D12
 2440 H20 2600 F 2 2602 F 3 2604 J 3 2608 L 3 2610 N10 2630 N14 2632 M18 3440 G20 3590 D17 3594 D 8 3601 I 1 3603 I 3 3606 I 2 3651 M14 3653 E13 3814 E19 3816 D10 3819 F13 5410 H21 6517 B 1 6521 M 6 6524 H 1 6526 I 1 6542 D13 6620 H 2



PR3 05396 T32-839

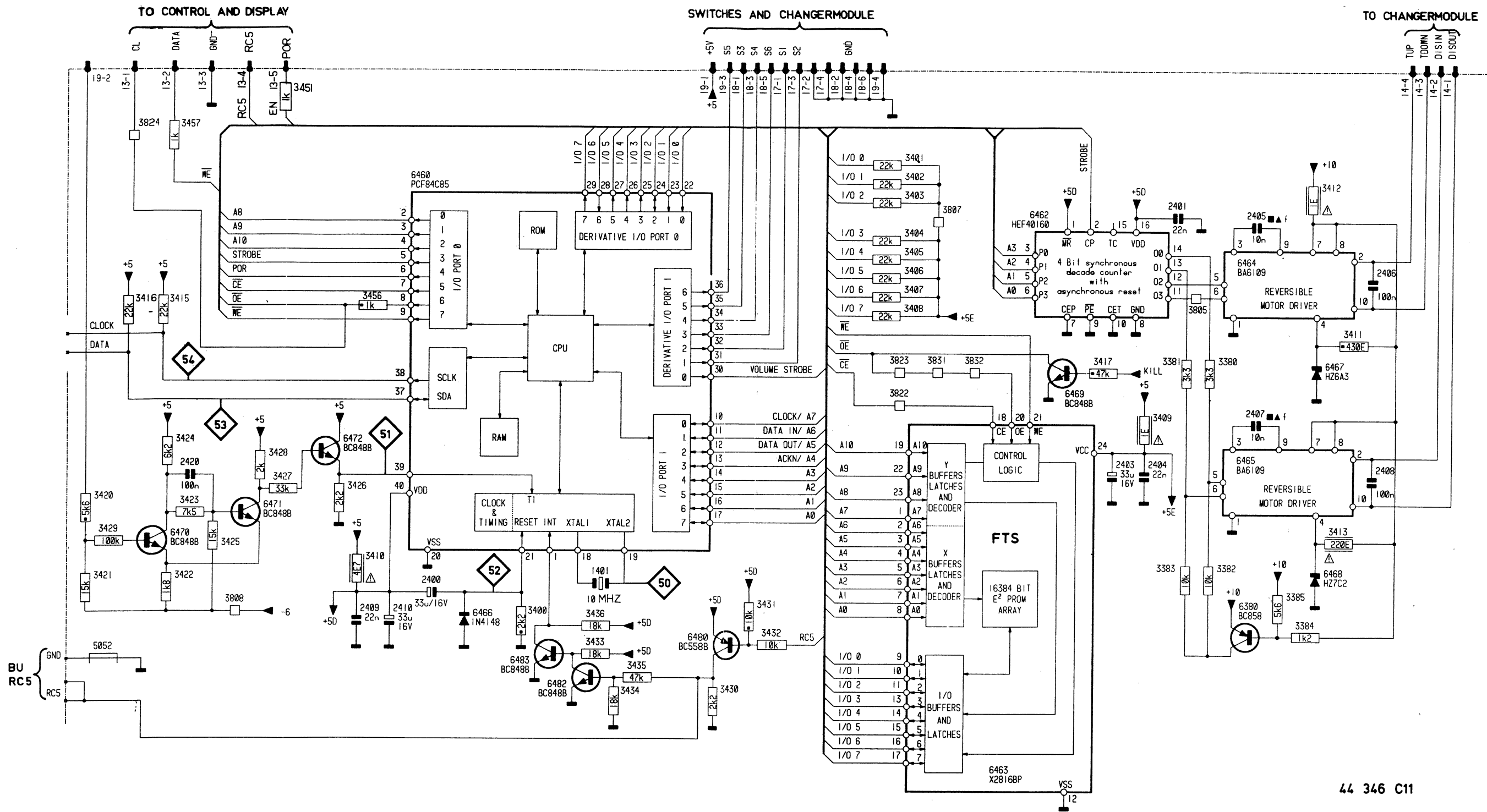
DECODING DIAGRAM

1601 M14 2441 H20 2601 E 2 2603 I 2 2607 L 2 2609 M 4 2611 N 9 2631 N15 2633 M18 3441 H20 3593 D 8 3600 E 2 3602 F 3 3605 H 2 3607 I 2 3650 M18 3652 D13 3654 D13 3813 D15 3817 M11 3828 M11 5601 L 2 6519 D17 6522 D 3 6525 G 2 6540 G12 6543 D12
 2440 H20 2600 F 2 2602 F 3 2604 J 3 2608 L 3 2610 N10 2630 N14 2632 M18 3440 G20 3590 D17 3594 D 8 3601 I 1 3603 I 3 3606 I 2 3609 M10 3651 M14 3653 E13 3812 E19 3816 D10 3819 F13 5410 H21 6517 B 1 6521 M 6 6524 H 1 6526 I 1 6542 D13 6620 H 2

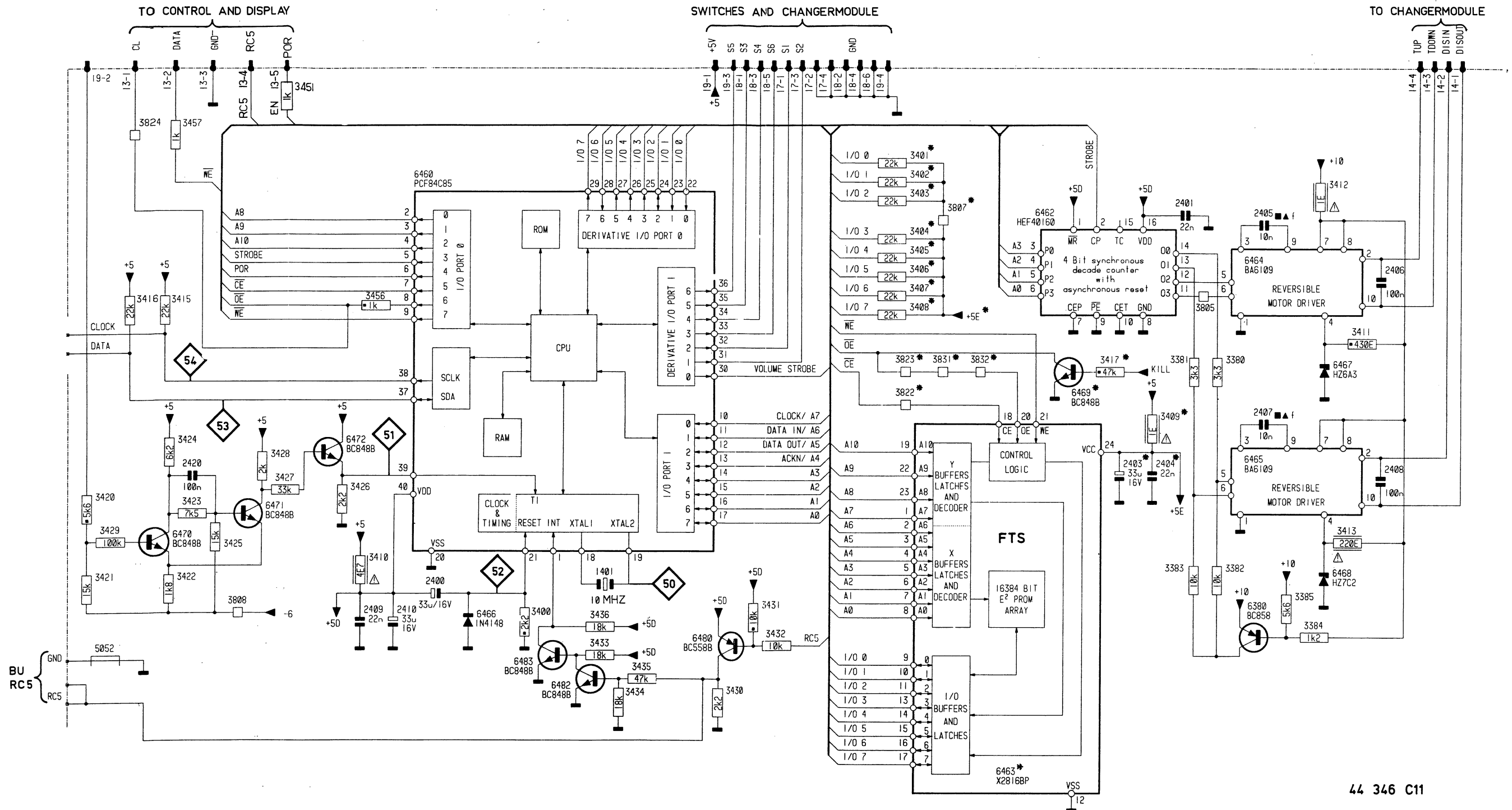


PRS 05396
T32-839

LOADING CONTROL DIAGRAM



5-8-a
LOADING CONTROL DIAGRAM

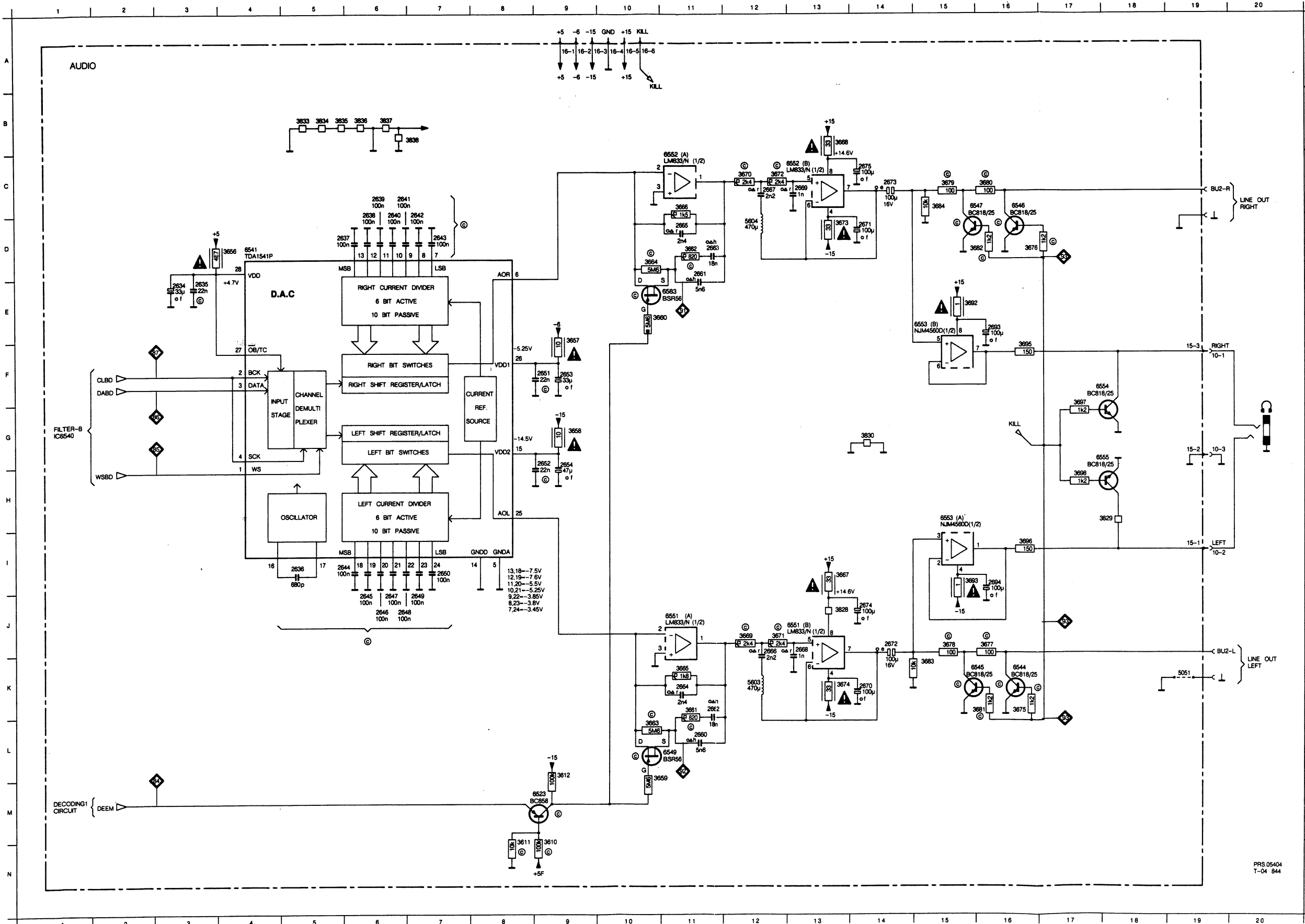


44 346 C11

* ONLY CDC 586
ALL CAPACITORS AND RESISTORS ARE CHIP COMPONENTS
UNLESS SPECIFIED OTHERWISE

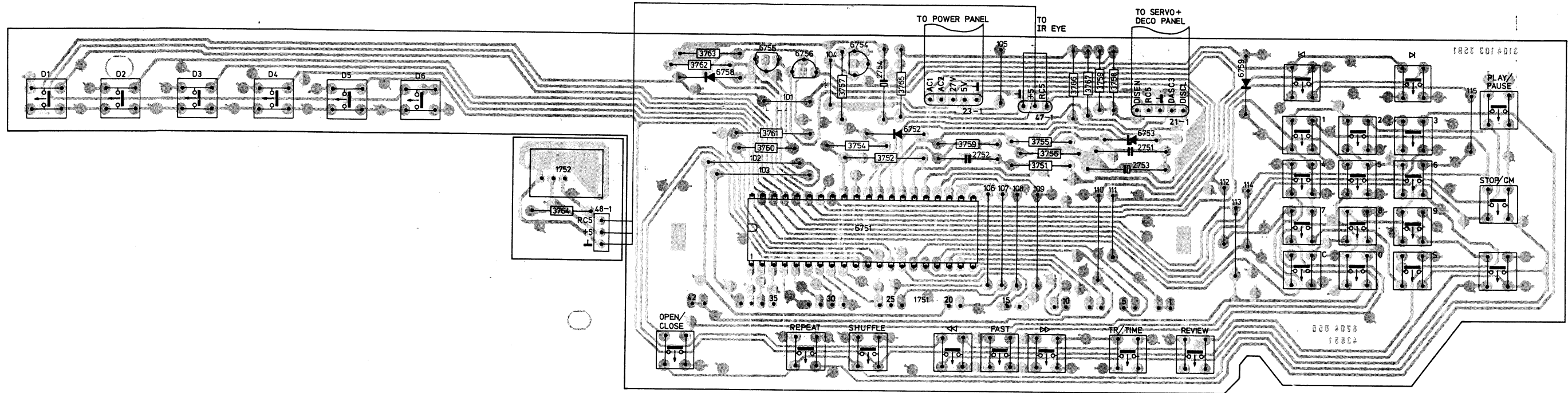
DECODING DIAGRAM

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 2634 E 3 | 2638 C 6 | 2642 C 7 | 2646 J 6 | 2650 I 7 | 2654 G 9 | 2663 D11 | 2667 C12 | 2671 D14 | 2675 C14 | 3611 N 8 | 3658 G 9 | 3662 D11 | 3666 C11 | 3670 C12 | 3674 K13 | 3678 J15 | 3682 D16 | 3693 I 15 | 3698 H17 | 3833 B 5 | 3837 B 6 | 5604 D12 | 6545 K16 | 6551 J13 | 6553 E15 | 6583 E11 |
| 2635 E 3 | 2639 C 6 | 2643 D 7 | 2647 J 6 | 2651 F 9 | 2660 L11 | 2664 K11 | 2668 J13 | 2672 J14 | 2693 E16 | 3612 L 9 | 3659 L11 | 3663 L10 | 3667 I13 | 3671 J12 | 3675 K16 | 3679 C15 | 3683 K15 | 3695 F16 | 3828 J13 | 3834 B 5 | 3838 B 7 | 6523 M 9 | 6546 C16 | 6551 J11 | 6553 H15 | |
| 2636 I 5 | 2640 C 6 | 2644 I 6 | 2648 J 6 | 2652 G 9 | 2661 D11 | 2665 D11 | 2669 C13 | 2673 C14 | 2694 I16 | 3656 D 4 | 3660 E11 | 3664 D10 | 3668 B13 | 3672 C12 | 3676 D16 | 3680 C16 | 3684 C15 | 3696 I16 | 3829 H18 | 3835 B 5 | 5051 K19 | 6541 D 4 | 6547 C16 | 6552 C13 | 6554 F18 | |
| 2637 D 6 | 2641 C 6 | 2645 J 6 | 2649 J 7 | 2653 F 9 | 2662 K11 | 2666 J12 | 2670 K14 | 2674 J14 | 3610 N 9 | 3657 E 9 | 3661 K11 | 3665 K11 | 3669 J12 | 3673 D13 | 3677 J16 | 3681 K16 | 3692 E15 | 3697 G17 | 3830 G14 | 3836 B 6 | 5603 K12 | 6544 K16 | 6549 L11 | 6552 C11 | 6555 G18 | |



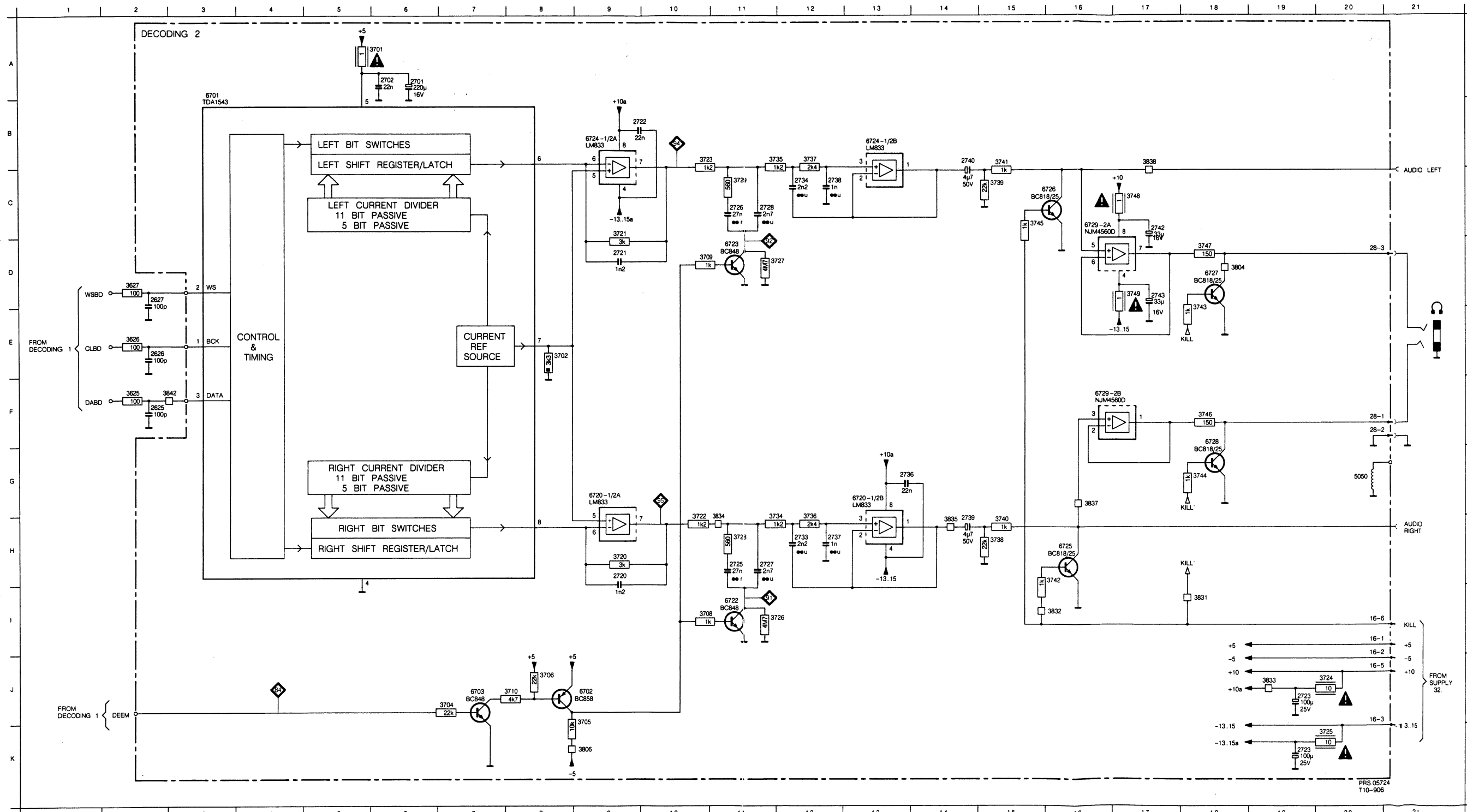
PRS 05404
T-04 844

CONTROL AND DISPLAY PANEL



DECODING DIAGRAM

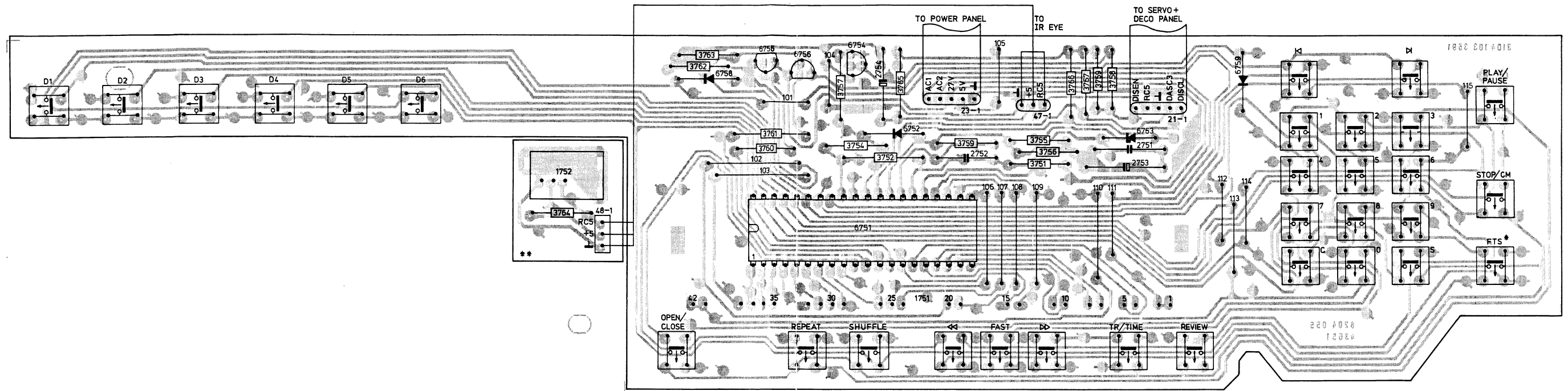
VERSIONS CDB581/17R, CDB583/17R AND CDC586/30R



| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|----------|----------|-----------|----------|----------|----------|----------|----------|----------|-----------|-----------|----------|----------|----------|-----------|----------|----------|-----------|-----------|-----------|
| 2625 F 2 | 2701 A 6 | 2721 D 9 | 2723 K19 | 2727 H11 | 2734 C12 | 2738 C12 | 2742 C17 | 3626 E 2 | 3702 E 8 | 3706 J 8 | 3710 J 8 | 3722 H10 | 3725 K20 | 3728 H11 | 3735 B11 | 3738 H15 | 3741 B15 | 3744 G18 | 3747 D18 | 3804 D18 | 3832 I 16 | 3835 H14 | 3842 F 3 | 6702 J 9 | 6720 G13 | 6724 B 9 | 6726 C16 | 6727 D18 | 6728 F18 | 6729 J 16 |
| 2626 E 2 | 2702 A 6 | 2722 B 9 | 2725 H11 | 2728 C11 | 2736 G13 | 2739 H14 | 2743 D17 | 3627 D 2 | 3704 J 7 | 3708 I 10 | 3720 H 9 | 3723 B10 | 3726 I 12 | 3729 C11 | 3736 H12 | 3739 C15 | 3742 H16 | 3745 C15 | 3748 C17 | 3806 K 9 | 3833 J19 | 3837 G16 | 5050 G20 | 6703 J 7 | 6722 I 11 | 6724 B13 | 6727 D18 | 6728 F18 | 6729 J 16 | |
| 2627 D 2 | 2720 H 9 | 2723 J19 | 2726 C11 | 2733 H12 | 2737 H12 | 2740 B14 | 3625 F 2 | 3701 A 6 | 3705 J 9 | 3709 D10 | 3721 C 9 | 3724 J20 | 3727 D12 | 3734 H11 | 3737 B12 | 3740 H15 | 3743 E18 | 3746 F18 | 3749 D17 | 3831 I 18 | 3834 H11 | 3838 B17 | 6701 A 3 | 6720 G 9 | 6723 D11 | 6725 H16 | 6728 F18 | 6729 J 16 | | |

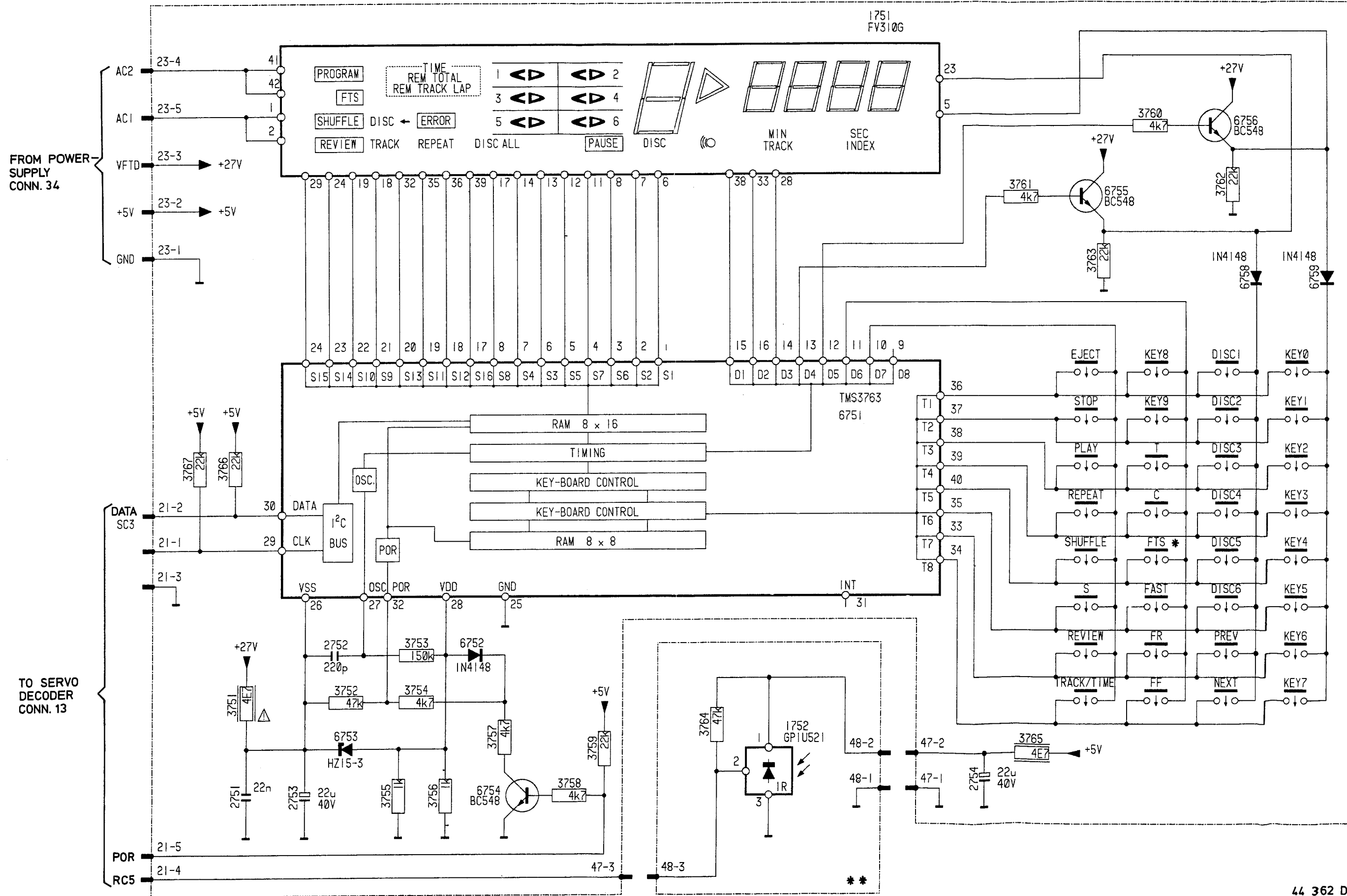
| | |
|----------------|--------------------|
| codenumber | IC |
| 4822 209 60288 | TDA 1543 ("DAC 4") |

CONTROL AND DISPLAY PANEL



* ONLY CDC586/CDB586
** NOT CDB581

CONTROL AND DISPLAY DIAGRAM



* ONLY CDC586/CDB586
 ** NOT CDB581

| SYMBOL | DESCRIPTION |
|--------|---|
| | Operational amplifier |
| | Differential amplifier |
| | Splitter |
| | Operational amplifier with open output |
| | Exclusive OR gate |
| | True/complement amplifier with high input |
| | Flip Flop |
| | AND gate |
| | OR gate |
| | Inverter with high input |

| | | | |
|--|--|-------|-----|
| | 0.2W (CR 16) | 220kΩ | 5% |
| | 0.33W (CR 25) | 1MΩ | 5% |
| | 0.33W (SFR25) | 1MΩ | 10% |
| | 0.25W (VR 25) | 10MΩ | 5% |
| | 0.5W (CR 37) | 10MΩ | 10% |
| | 0.67W (CR 52) | | 5% |
| | 1.15W (CR 68) | | 5% |
| | Ceramic plate | | |
| | Polyester flat foil | | |
| | Polyester mepolesco | | |
| | Mylar (Polyester flat foil small sized) | | |
| | Micropoco | | |
| | Tubular ceramic (body colour pink or yellow/green) | | |
| | Miniature single elco | | |
| | Subminiature tantalum | | |

* a=2.5V
 b=4V
 c=6.3V
 d=10V
 e=16V
 f=25V
 g=40V
 h=63V
 i=100V
 j=125V
 l=125V
 m=150V
 n=160V
 o=200V
 r=250V
 s=300V
 t=350V
 u=400V
 v=500V
 w=630V
 x=1000V
 A=1.6V
 B=6V
 C=12V
 D=15V
 E=20V
 F=35V
 G=50V
 H=75V
 I=80V

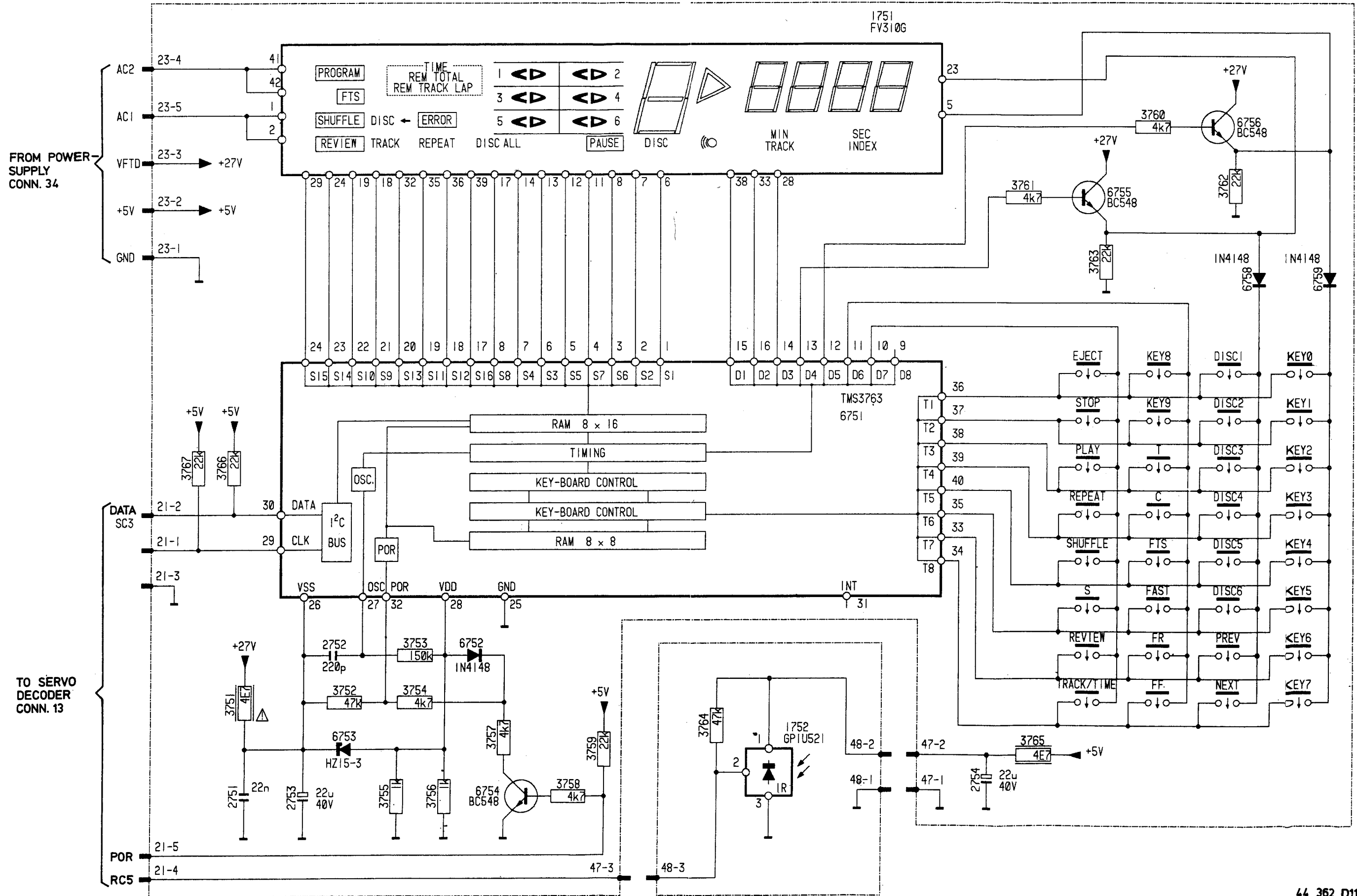
MDA.00084
 T32-735

| SYMBOL | DESCRIPTION |
|--------|---|
| | Capacitor, general |
| | Electrolytic capacitor (+ and - may be omitted) |
| | Bipolar electrolytic capacitor (+ may be omitted) |
| | Resistor, general |
| | 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) |
| | Alternating current (AC) |
| | Earth (functional) |
| | Frame or chassis connection |
| | Direction in which AC voltages are passed on (optional present) |
| | Interrupted line |
| | Not-connected crossing lines |
| | Connected lines |
| | Cable tree with lead-outs |
| | Changer, general (arrow is optional) |
| | Voltage Controlled Oscillator |
| | Band-pass filter |
| | Phase changing network |
| | Delay element |
| | Amplifier, general |

MDA.00083
 T32-735

CONTROL AND DISPLAY DIAGRAM



| SYMBOL | DESCRIPTION |
|--------|---|
| | Operational amplifier |
| | Differential amplifier |
| | Splitter |
| | Operational amplifier with open output |
| | Exclusive OR gate |
| | True/complement amplifier with high input |
| | Flip Flop |
| | AND gate |
| | OR gate |
| | Inverter with high input |

| | | | |
|--|--|---------------|-----|
| | 0.2W (CR 16) | 220k Ω | 5% |
| | 0.33W (CR 25) | 1M Ω | 5% |
| | 0.33W (SFR25) | 1M Ω | 10% |
| | 0.25W (VR 25) | 10M Ω | 5% |
| | 0.25W (VR 25) | 10M Ω | 10% |
| | 0.5W (CR 37) | 1M Ω | 5% |
| | 0.5W (CR 37) | 1M Ω | 10% |
| | 0.67W (CR 52) | | 5% |
| | 1.15W (CR 68) | | 5% |
| | Ceramic plate | | |
| | Polyester flat foil | | |
| | Polyester mepolesco | | |
| | Mylar (Polyester flat foil small sized) | | |
| | Micropoco | | |
| | Tubular ceramic (body colour pink or yellow/green) | | |
| | Miniature single elco | | |
| | Subminiature tantalum | | |

* a=2.5V
 b=4V
 c=6.3V
 d=10V
 e=16V
 f=25V
 g=40V
 h=63V
 i=100V
 j=125V
 l=125V
 m=150V
 n=160V
 q=200V
 r=250V
 s=300V
 t=350V
 u=400V
 v=500V
 w=630V
 x=1000V
 A=1.6V
 B=6V
 C=12V
 D=15V
 E=20V
 F=35V
 G=50V
 H=75V
 I=80V

MDA.00084
 T32-735

| SYMBOL | DESCRIPTION |
|--------|---|
| | Capacitor, general |
| | Electrolytic capacitor (+ and - may be omitted) |
| | Bipolar electrolytic capacitor (+ may be omitted) |
| | Resistor, general |
| | 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) |
| | Alternating current (AC) |
| | Earth (functional) |
| | Frame or chassis connection |
| | Direction in which AC voltages are passed on (optional present) |
| | Interrupted line |
| | Not-connected crossing lines |
| | Connected lines |
| | Cable tree with lead-outs |
| | Changer, general (arrow is optional) |
| | Voltage Controlled Oscillator |
| | Band-pass filter |
| | Phase changing network |
| | Delay element |
| | Amplifier, general |

MDA.00083
 T32-735

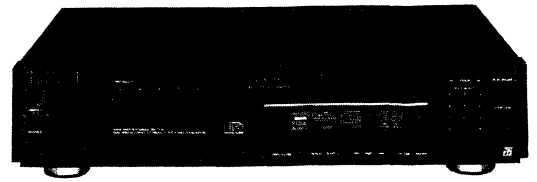
ELECTRICAL PARTSLIST

| | | | | | |
|--|---|--|--|---|--|
| | MC7915CT TY40408=MC7805CT selected MC79L06 MC7912CT TDA8808T/C3 TDA8809T/C2 TCA0372DP2 SAA7210 µPD41416 TDA1541 NJM4560D PCF84C85P/016 MAB8441P/T158 BA6109 LM833N PCF2111P MC78M15CT NJM4556D HEF40160BP SAA7220 X2816BP TMS3763CNL | 4822 130 41899 4822 209 71579 4822 209 82056 5322 209 85913 4822 209 73234 4822 209 73235 4822 209 72587 4822 209 71001 4822 209 70422 4822 209 72544 4822 209 83274 4822 209 60005 4822 209 60039 4822 209 82059 4822 209 83163 5322 209 70185 4822 209 80808 4822 209 82362 4822 209 11233 4822 209 72545 4822 209 72102 4822 209 73149 | | 100nF 63V 220pF 50V 22µF 40V 220nF 63V 1nF 50V 2n7 50V 4n7 50V 27nF 50V 1µ5 bip 50V 2µ2 16V 4µ7 50V 6µ8 50V 8µ2 63V 33µF 16V 47µF 25V 100µF 25V 220µF 16V 330µF 35V 6800µF 16V 1000µF 16V 470µF 35V 22µF 50V 470µF 50V 10µF 40V 47µF 10V 3µ3 63V 100µF 10V 100µF 16V Bip | 4822 122 33156 4822 122 10172 5322 124 21643 4822 121 42245 4822 121 51324 4822 121 51312 4822 121 51314 4822 121 42888 4822 124 41601 4822 124 41593 4822 124 41576 4822 124 41578 4822 121 51321 4822 124 40272 4822 124 41527 4822 124 41528 4822 124 40196 4822 124 41594 4822 124 41591 4822 124 41571 4822 124 41573 4822 124 41596 4822 124 41614 4822 124 20708 4822 124 20678 4822 124 20725 5322 124 21762 4822 124 22339 |
| | BC328 BC338 BC328-16 BC548C BC558 BC818 BC848 Chip BC858 Chip BD135 BF550 BC337 BC338-25 BC548B BC808-25 BC818-25 BC848B chip BSR56 | 4822 130 44104 4822 130 44121 4822 130 41023 4822 130 44196 4822 130 44197 4822 130 42675 5322 130 41981 5322 130 42012 4822 130 40823 4822 130 42131 4822 130 40855 4822 130 40958 4822 130 40937 5322 130 42048 4822 130 42696 5322 130 41982 4822 130 42633 | | 1N4002 1N4148 BAT85 BA314 HZ3B2 HZ4B2 HZ5B1 HZ6A3 HZ7C2 HZ7A3 HZ9C1 BAW62 BZV85-C7V5 HZ9A2 BZX55-C4V7 BZX55-C12 BZX55-C3V9 BZX55-C15 | 5322 130 30684 4822 130 30621 4822 130 31983 4822 130 30879 4822 130 32831 4822 130 32843 4822 130 32986 4822 130 32697 4822 130 32862 4822 130 33523 4822 209 70289 4822 130 30613 5322 130 32586 4822 130 33294 4822 130 80275 4822 130 80277 4822 130 33637 4822 130 81086 |
| | 680pF 50V 1nF 50V 1n2 50V 1n8 50V 2n2 50V 3n3 400V 3n9 50V 6n8 50V 10nF 25V 15nF 50V 22nF 16V 33nF 63V 47nF 100V 220nF 63V 330nF 63V 470nF 100V 56nF 50V 5n6 160V 18nF 63V 2n4 250V 1nF 400V | 4822 122 31381 4822 122 31746 4822 121 51309 4822 121 51311 4822 121 51325 4822 122 40327 4822 121 51313 4822 121 51093 4822 122 10177 4822 121 51315 4822 122 10166 4822 122 31848 5322 121 42491 4822 121 42245 4822 121 42661 4822 121 51252 4822 122 32183 4822 121 51361 4822 121 51225 4822 121 51111 4822 121 43066 | | 10.000 MHz 11289.6 kHz | 4822 242 71378 4822 242 71644 |
| | 1R 4R7 4R7 10R 12R 18R 22E 33E 220R 430R | 0.33 W 0.33 W 0.6 W 0.33 W 0.33 W 0.33 W 0.33 W 0.33 W 0.33 W 0.5 W | 4822 111 30483 4822 111 30499 4822 116 52858 4822 111 30508 4822 111 30511 4822 111 30515 4822 111 30517 4822 111 30522 4822 111 30544 4822 116 52423 | | |

ELECTRICAL PARTSLIST

| | | | | |
|--|--|--|--|--|
| | 680R 0.5 W 750R 0.5 W 1K 0.5 W 2K2 0.5 W 2K7 0.5 W 3K3 0.5 W 3K9 0.5 W 4K7 0.5 W 150K 0.5 W 470K 0.5 W 180K 0.5 W 1K2 0.5 W 2K4 0.6 W 5K6 0.5 W 6K8 0.5 W 10K 0.5 W 22K 0.5 W 33K 0.5 W 47K 0.5 W 150K 0.5 W 470K 0.5 W 180K 0.5 W 1K2 0.5 W 2K4 0.6 W 180K 0.5 W 1M 0.5 W 5M6 0.5 W 100R 0.5 W 18K 0.5 W 1K2 0.5 W 150R 0.5 W | 4822 116 52431 4822 116 52432 4822 116 52391 4822 116 52408 4822 116 52413 4822 116 51417 4822 116 52422 4822 116 52426 4822 116 52501 4822 116 52527 4822 116 52505 4822 116 52395 4822 116 52851 4822 116 52438 4822 116 52441 4822 116 52452 4822 116 52463 4822 116 52467 4822 116 52472 4822 116 52501 4822 116 52527 4822 116 52505 4822 116 52395 4822 116 52851 4822 116 52505 4822 116 52493 4822 116 52533 4822 116 52389 4822 116 52461 4822 116 52395 4822 116 52398 | MISCELLANEOUS Display Trafo/00R/05R mains Trafo/47R mains Trafo digout Switches keyboard Phone socket Cinch socket 4p Cinch socket 2p Fuse 315 mA Fuse 400 mA Switch SK11-15 Power on switch Remote eye Switch SK5 Opto-coupler GP-1S04 Transformer fuse EU USA | 4822 130 90606 4822 146 30739 4822 146 30737 4822 148 80281 4,3 mm 4822 276 12465 9,5 mm 4822 276 12276 4822 267 30631 4822 267 40766 4822 267 30631 4822 253 30014 4822 253 54043 4822 271 30628 4822 276 11309 4822 214 51723 4822 276 12491 4822 130 32114 4822 252 20017 4822 252 20108 |
| | 10K log dual 4K7 0.05 W 22K 0.05 W | 4822 100 30061 4822 101 10685 4822 100 20522 | | |

Service
Service
Service



44 505 A11

The remote control is available under codenumber 4822 218 10234

Service Manual

COMPACT
disc
DIGITAL AUDIO

CONTENTS

- 1 Contents and Control Buttons
- 2 Technical data
- 3 Servicing hints, loading and cabinet parts
- 4 Electrical measurements and adjustments
- 5 Block diagram, wiring diagram, circuit diagrams, panel data
- 6 Electrical partslist
- 7 Changes

(GB)

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

(NL)

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

(F)

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

(D)

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

(I)

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

CLASS 1
LASER PRODUCT

3122 2110 03420

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



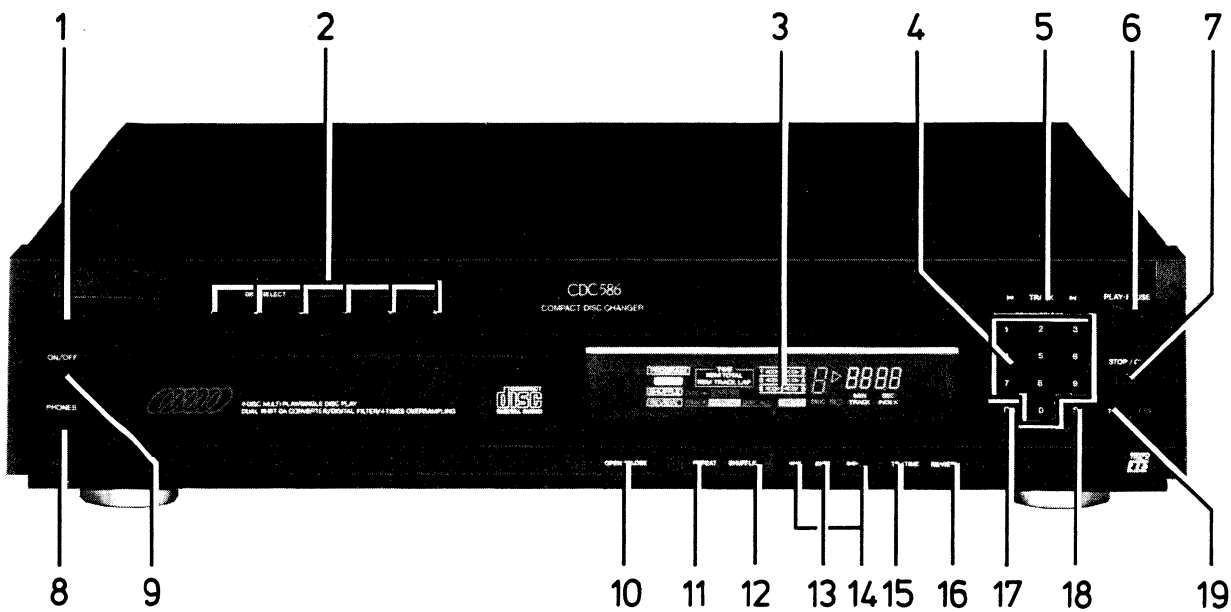
"Pour votre sécurité, ces documents doivent être utilisés par des spécialistes agréés, seuls habilités à réparer votre appareil en panne".

Subject to modification
4822 725 22292
Printed in The Netherlands
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PHILIPS Published by
Service Consumer Electronics

CS 21459

CONTROL BUTTONS



44 388 A11

Front of player

- 1 Power ON/OFF
- 2 Disc select
- 3 Display
- 4 1 - 0 digit
- 5 ◀ prev. TRACK next ▶
- 6 Play/Pause
- 7 Stop/CM
- 8 IR eye
- 9 Phones
- 10 Open/Close
- 11 Repeat
- 12 Shuffle
- 13 Fast-Search
- 14 ◀◀ SEARCH ▶▶ keys
- 15 Track/Time
- 16 Review
- 17 Clear
- 18 Store
- 19 FTS

**Technical Data DAC 4 for CDC 586/30R
CDB 583/17R
CDB 581/17R**

| | |
|---------------------------|---------------------------|
| Number of channels | : 2 |
| Frequency range | : 20-20.000 Hz |
| Output resistance | : 1 kΩ |
| Amplitude linearity | : ± 0.2 dB (20-20.000 Hz) |
| Phase linearity | : ± 1.0° (20-20.000 Hz) |
| Dynamic range | : 70 dB |
| Signal-to-noise ratio | : 90 dB (20-20.000 Hz) |
| Channel separation | : 80 dB (20-20.000 Hz) |
| Total harmonic distortion | : 66 dB |

Rear of player

- a RC 5
- c Analogue out

CHANGES
Already published:none

Page

| | |
|------------|--|
| Front page | /30R added (European version). CDB581, CDB583 added (USA version). |
| 1-1-a | Specifications of DAC 4 added. |
| 3-2-a | codenumbers for CDB581 and CDB583 added. |
| 3-3-a | correction of codenumbers: items 101, 146, 147. |
| 5-5-1 | Servo & Decoder panel for derived versions ("DAC 4") |
| 5-6-1 | added. |
| 5-8-a | Diagram adapted for versions CDB581 and CDB583. |
| 5-10-1 | Diagram DAC 4 added. |
| 5-10-2 | Control and display panel adapted for versions CDB581 and CDB583. |
| 5-11-a | Control and display diagram adapted for versions CDB581 and CDB583. |

101h

Service Information

| | |
|--------|------------|
| | 1989-03-07 |
| CDC586 | |
| | A89-206 |

Product Service Group CE Audio

GB

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

Page: front page, 1-1-a, 3-2-a, 3-3, 5-5-1, 5-6-1, 5-7, 5-8-a, 5-10-1, 5-10-2, 5-11-a, 5-12, 7-1

NL

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

Pagina: voorblad, 1-1-a, 3-2-a, 3-3, 5-5-1, 5-6-1, 5-7, 5-8-a, 5-10-1, 5-10-2, 5-11-a, 5-12, 7-1

F

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

Pages: Page de garde, 1-1-a, 3-2-a, 3-3, 5-5-1, 5-6-1, 5-7, 5-8-a, 5-10-1, 5-10-2, 5-11-a, 5-12, 7-1

D

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

Seite: Titelblatt, 1-1-a, 3-2-a, 3-3, 5-5-1, 5-6-1, 5-7, 5-8-a, 5-10-1, 5-10-2, 5-11-a, 5-12, 7-1

I

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

Pagine: prima pagina, 1-1-a, 3-2-a, 3-3, 5-5-1, 5-6-1, 5-7, 5-8-a, 5-10-1, 5-10-2, 5-11-a, 5-12, 7-1