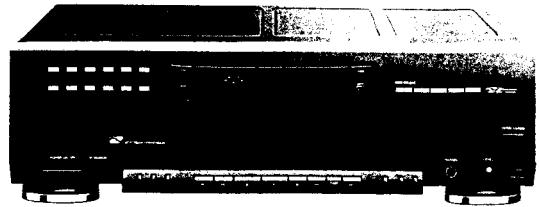


**Service
Service
Service**

CDC935/00S/05S/10S/17S



Service Manual

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TECHNICAL SPECIFICATIONS

General

1. Mains voltage	/00S	: 220V ($\pm 10\%$) 50 Hz
	/01S	: 110V-127V-220V-240V 50Hz Selectable by Voltage Selector
	/05S	: 240V ($\pm 10\%$) 50 Hz
	/10S	: 240V ($\pm 10\%$) 50 Hz
	/17S	: 117V ($\pm 10\%$) 60 Hz
2. Mains voltage selection		: See circuit diagram Power Supply
3. Power consumption mains,operated		: 9W

Line output

1. Number of channels	: 2
2. Output voltage	: 2 Vrms $\pm 3\text{dB}$
3. Unbalance left-right	: max. $\pm 1,2\text{dB}$
4. Output resistance	: 1 k Ω
5. Amplitude linearity	: max. $\pm 0,5\text{dB}$ from 20 Hz to 20 kHz
6. Phase non-linearity	: max. $\pm 0,5^\circ$ from 20 Hz to 20 kHz
7. Signal to noise ratio	: min. 84dB from 20 Hz to 20 kHz
8. Dynamic range	: min. 70dB from 20 Hz to 20 kHz
9. Total harmonic distortion + noise	: min. 60dB from 20 Hz to 20 kHz
10. Out-band attenuation	: min 35dB above 40 kHz
11. Channel separation	: min. 70dB from 20 Hz to 20 kHz
12. Muting during random access	: min. 88dB from 20 Hz to 20 kHz
13. Automatic switched deemphasis with time constant	: 15/50 μs
14. Non-linearity at -90dB	: min. $\pm 2\text{dB}$

Variable headphone (low end)

1. Output voltage	: max. 5 Vrms $\pm 3\text{dB}$
2. Unbalance left-right	: max. $\pm 1,2\text{dB}$
3. Output resistance	: 120 Ohm
4. Load impedance range	: 32 Ohm to 600 Ohm load
5. Output power	: 0 to 30 mW into 30 Ohm load : 0 to 50 mW into 150 Ohm load : 0 to 30 mW into 600 Ohm load
Audio specs in case of 600 Ohm load at 4 Vrms voltage output	
6. Signal to noise ratio	: typ. 80 dB
7. Dynamic range	: min. 70 dB from 20 Hz to 20 kHz
8. Total harmonic distortion	: min. 60 dB from 20 Hz to 20 kHz
9. Channel separation	: min. 70 dB (1 kHz) : min. 65 dB from 31,5 Hz to 16 kHz

Dimensions and weight

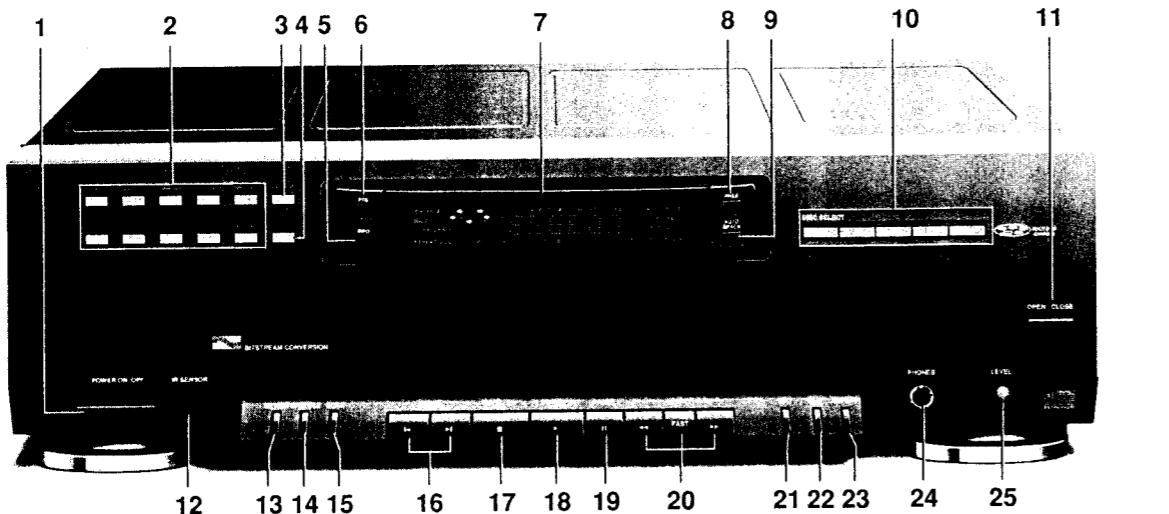
1. Apparatus tray closed	: WxDxH 435 x 300 x 90/106 mm
2. Apparatus tray open	: WxDxH 435 x 500 x 90/106 mm
3. Weight	: 7,5 kg

Optical read-out system

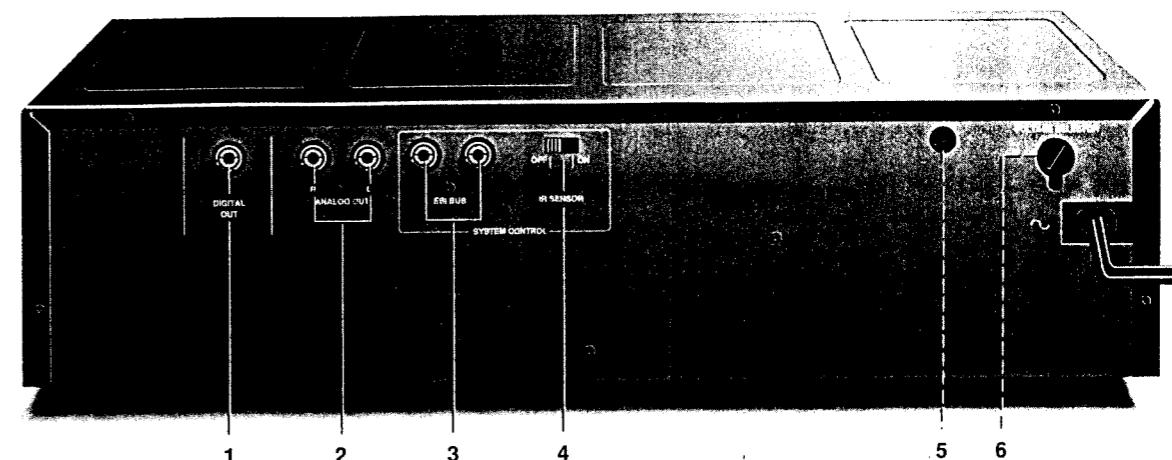
1. Laser type	: Semiconductor AlGaAs
2. Wavelength	: 780 nm ± 20 nm
3. Light output (c.w.)	: max. 0,5 mW

CONTROLS AND CONNECTIONS

3



3



CONNECTIONS

Indication on Player Indication in Diagram

- | | |
|---------------------------------|------|
| 1. DIGITAL OUT (ONLY CDC935) | 1814 |
| 2. ANALOG OUT | 1300 |
| 3. ESI BUS | 1750 |
| 4. IR SENSOR ON OFF | 1740 |
| 5. MAINS FUSE HOLDER (only /01) | 24 |
| 6. VOLTAGE SELECTOR (only /01) | 1543 |

CONTROLS

Indication on Player	Indication in Diagram	Indication on Player	Indication in Diagram
	CDC925 CDC935		CDC925 CDC935
1. POWER ON/OFF	1500	11. OPEN/CLOSE	1437 1425
2. 1-0 digit keys	1435 1426 1431 1427 1427 1428 1428 1429 1432 1432 1433 1433 1429 1434 1425 1435 1426 1436 1430 1437	12. INFRA RED SENSOR	7460 7460 1441 1441 1438 1438 1439 1439 1440 1440 1444 1444 1443 1451 1442 1452 1445 1453 1446 1446
3. P(program)	1436 1455	17. STOP/CP	1447 1454
4. C(ancel)	1434 1456	18. PLAY/REPLAY	not 1447
5. INFO	not 1458	19. PAUSE	1449 1449
6. FTS	not 1457	20. << SEARCH >>	1450 1450
7. DISPLAY	1400 1402	21. EDIT	1449 1449
8. PRESET	not 1430	22. TIME	1450 1450
9. AUTO SPACE	not 1431	23. REPEAT	1448 1448
10. DISC SELECT	1420 1420 1421 1421 1422 1422 1423 1423 1424 1424	24. PHONES	1371 1371
		25. LEVEL	3380 3380
		26. QUICK PLAY	1633 1633
		27. LOAD	1631 1631

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 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.

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.

S Warning'

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

SF Varo!

Avatussa laitteessa ja suojauslukituksen ohittaaessa olet alttiina näkymättömiin lasensäteilylle. Älä katso sateeseen!

DK Advarsel'

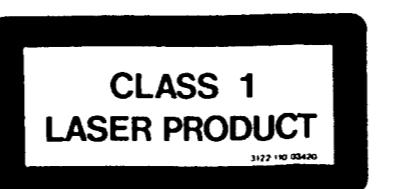
Usynlig laserstrålning vid åbning. Undgå unsættelse for stråling.

CAUTION

Invisible laser radiation when open.
Avoid exposure to beam.

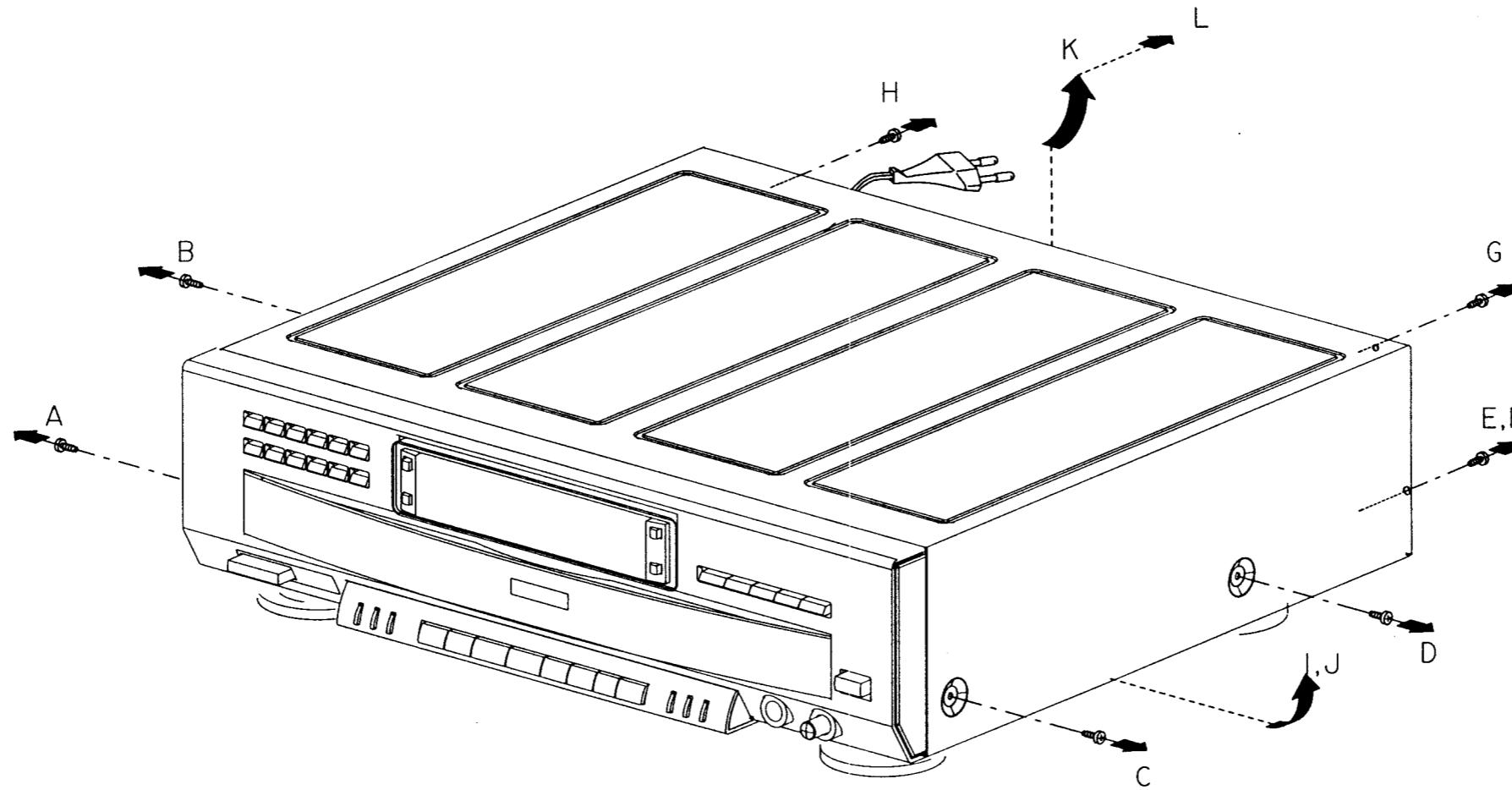
DANGER

Invisible laser radiation when open.
Avoid direct exposure to beam.



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

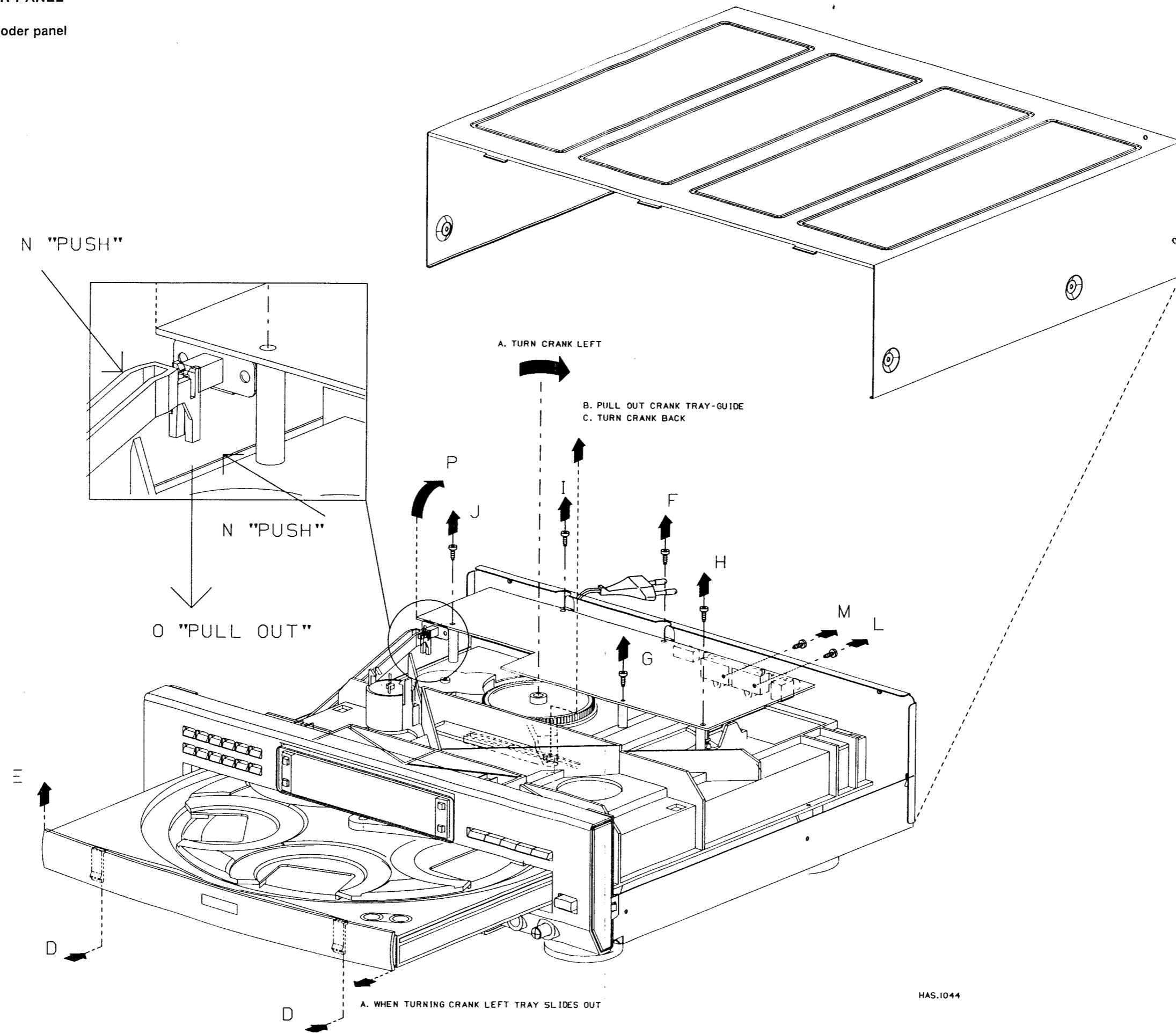
**DISMANTLING INSTRUCTIONS
DEMOUNTING OF COVER**



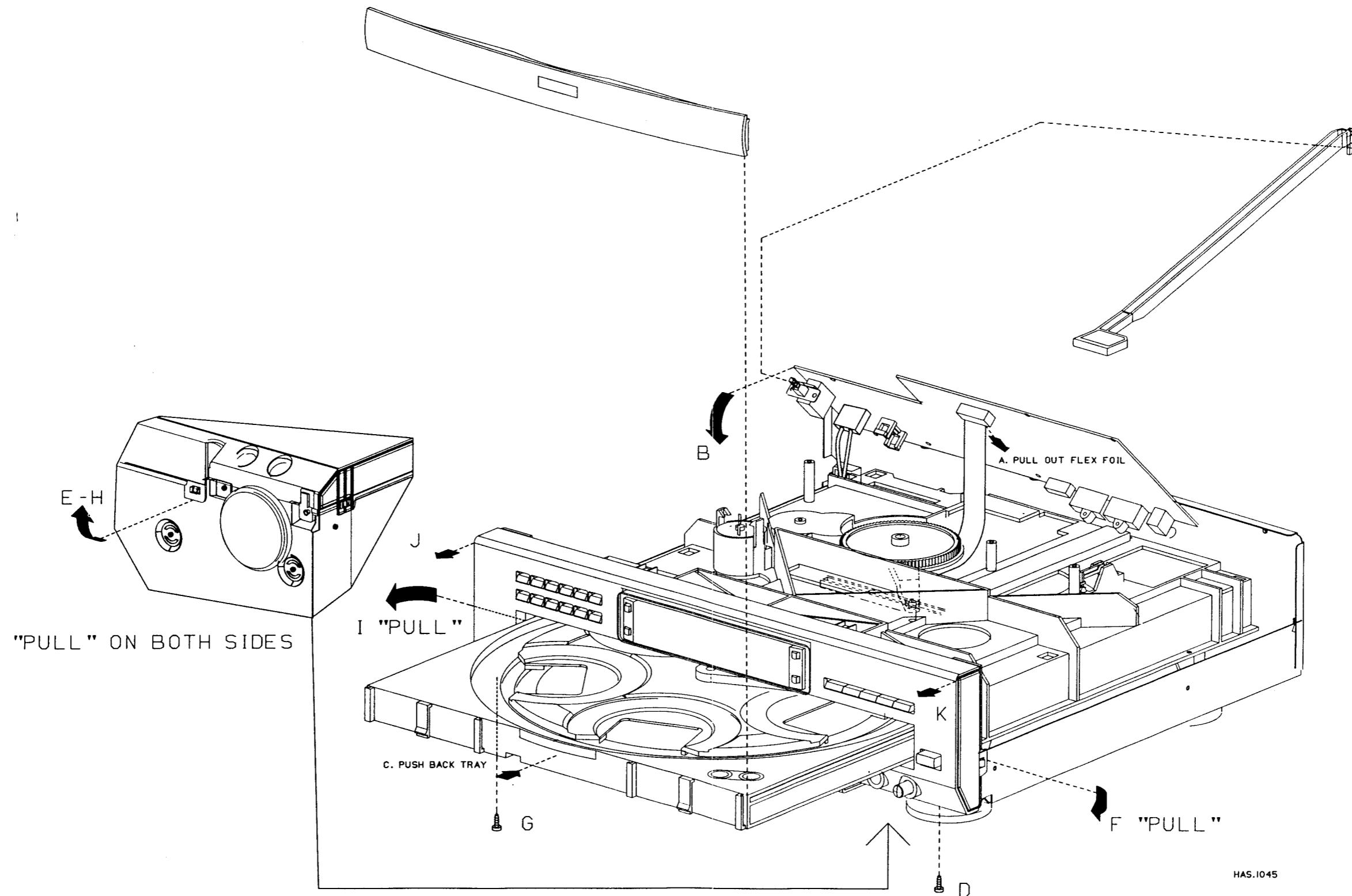
HAS.104.3

PULL OUT OF TRAY
DEMOUNTING OF TRAYFRONT
DEMOUNTING OF DECODER PANEL

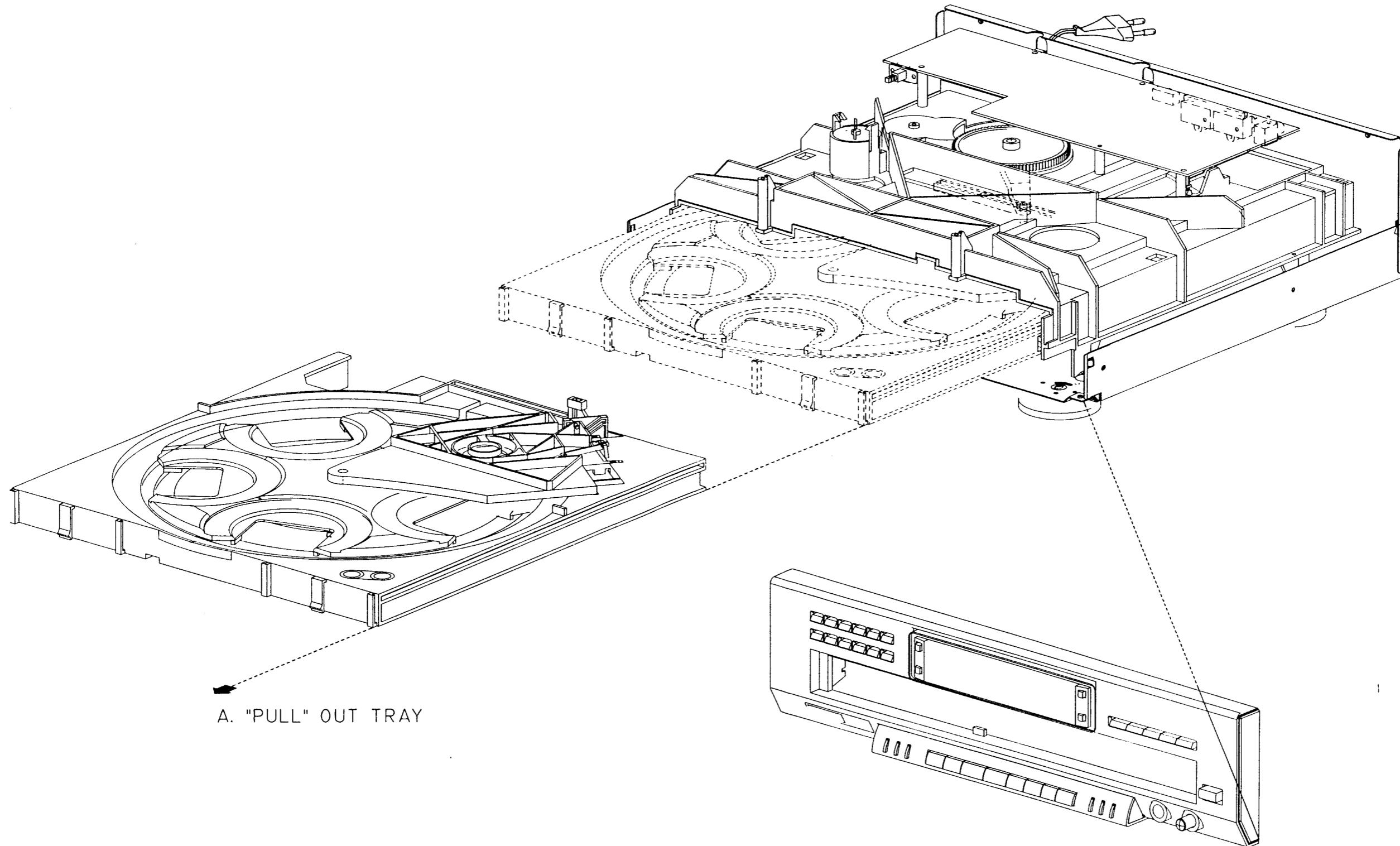
NOTE: Before demounting decoder panel
remove backplate.



PULL OUT OF FLEXFOIL
DEMOUNTING OF FRONT

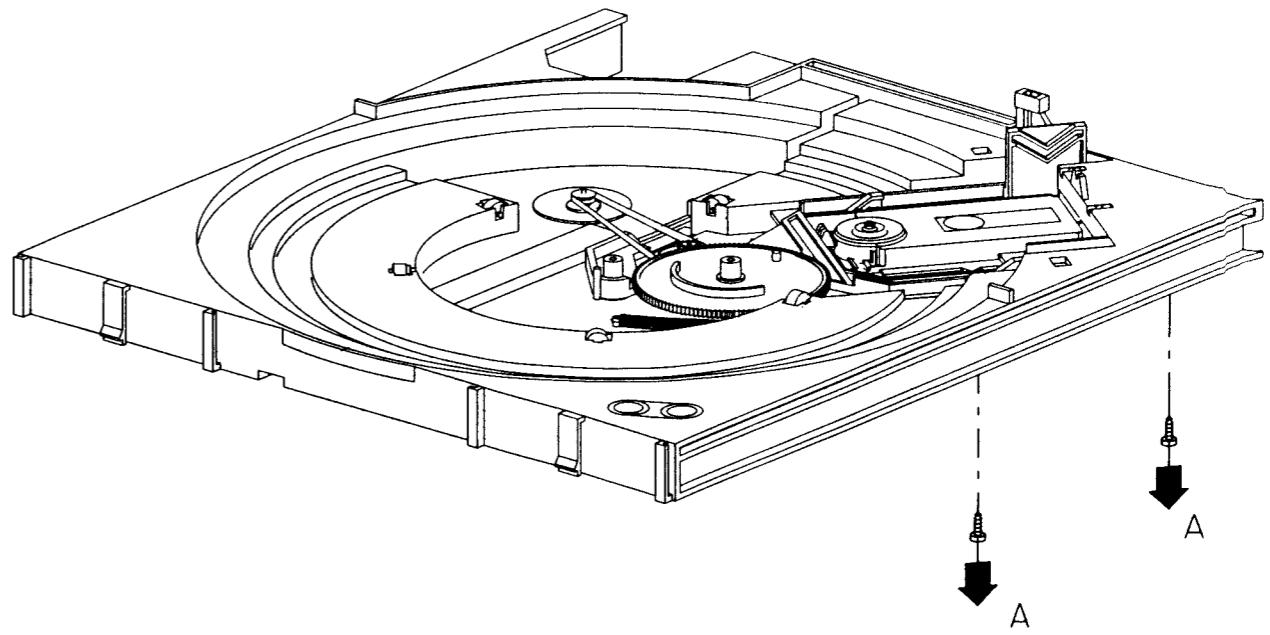
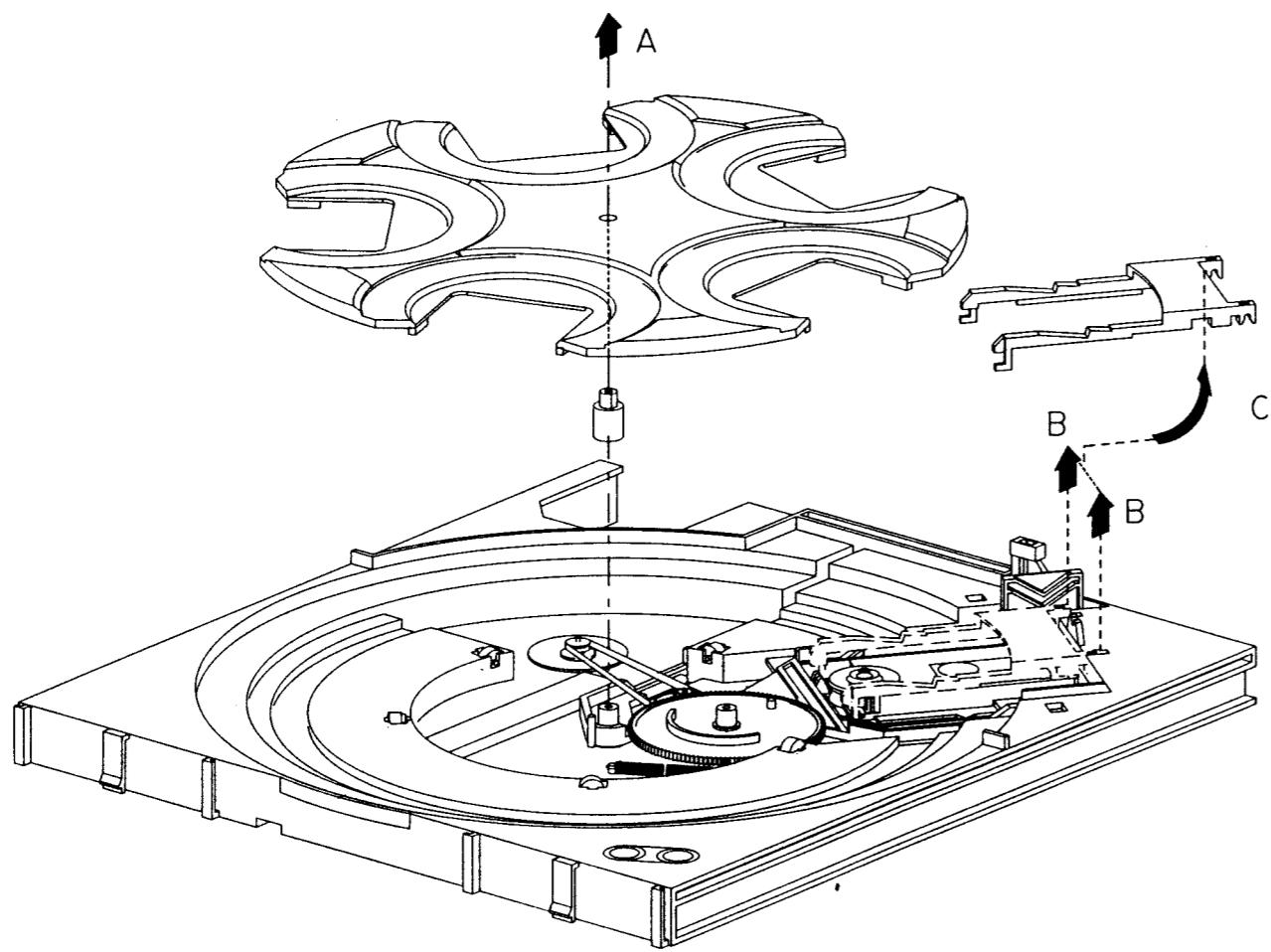
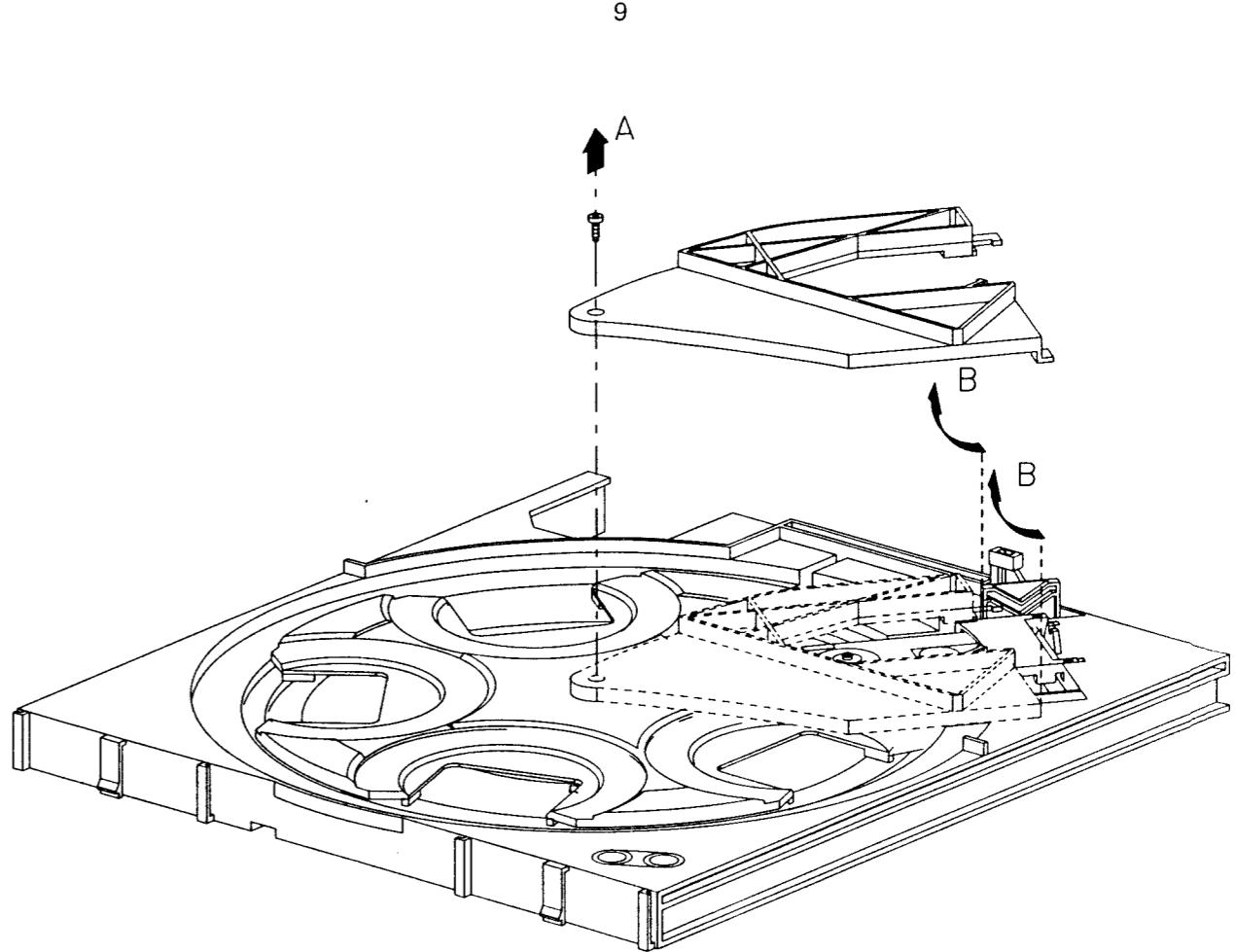
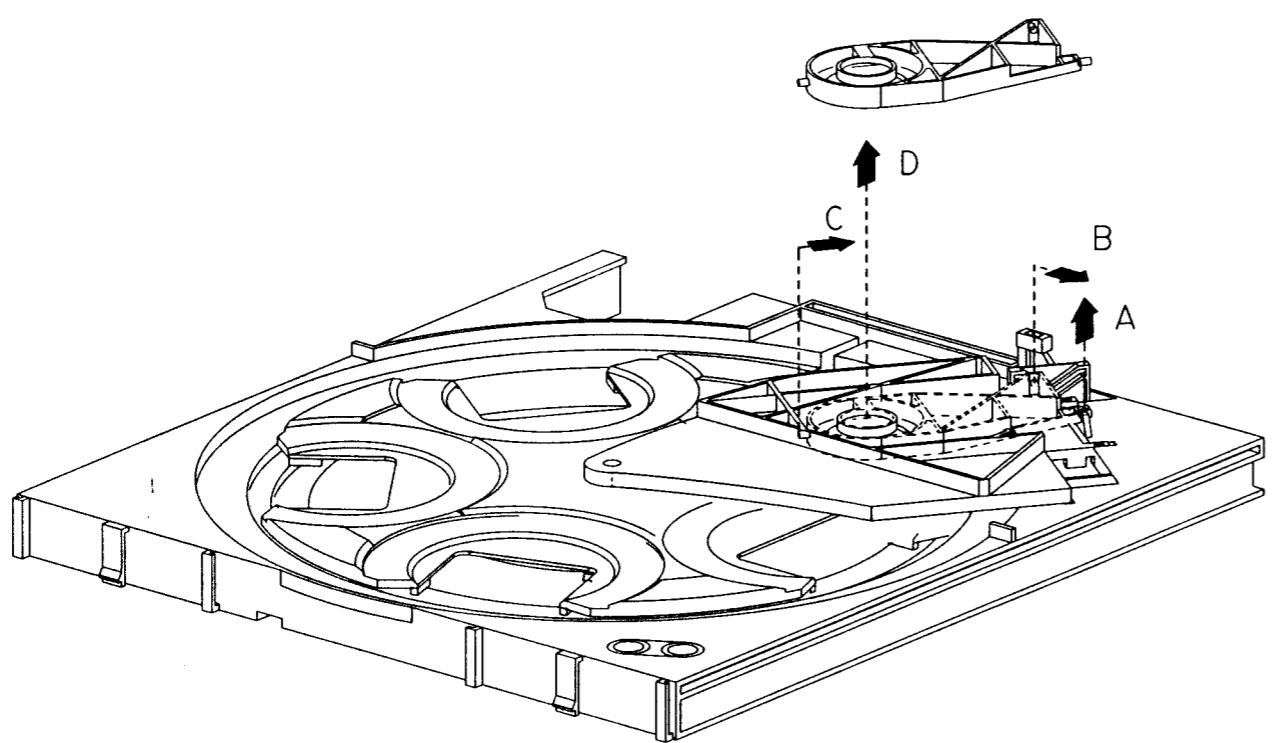


PULL OUT OF TRAY

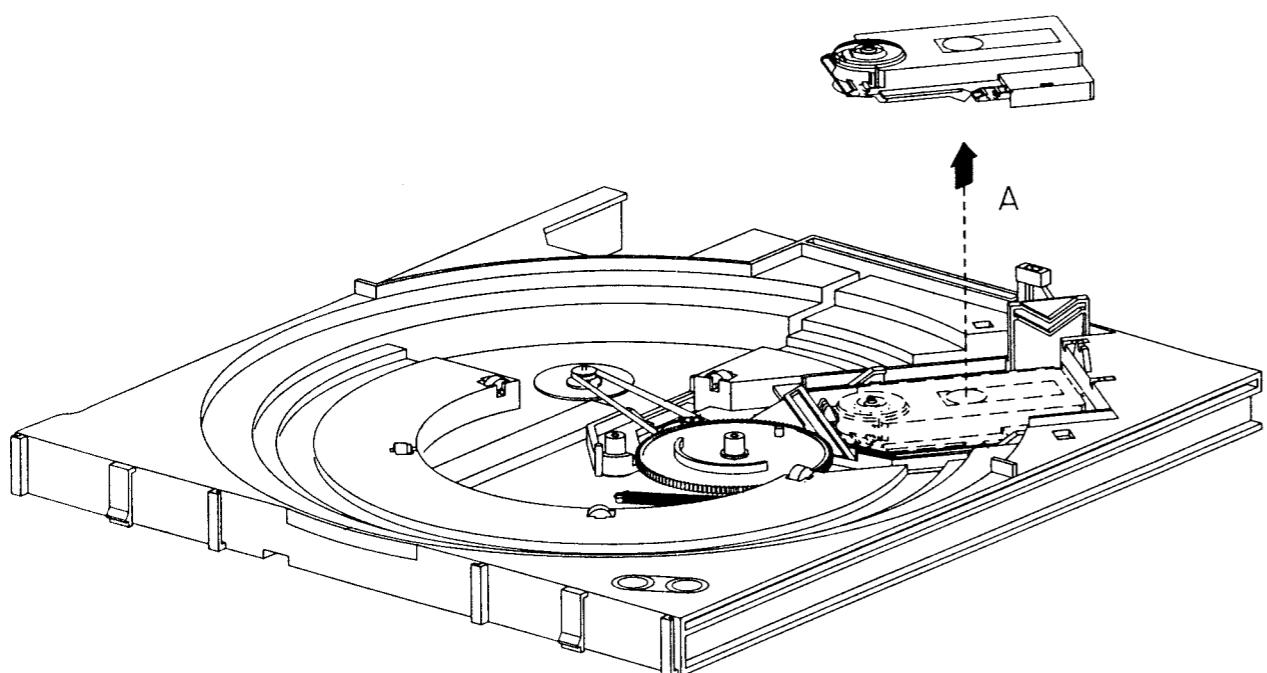
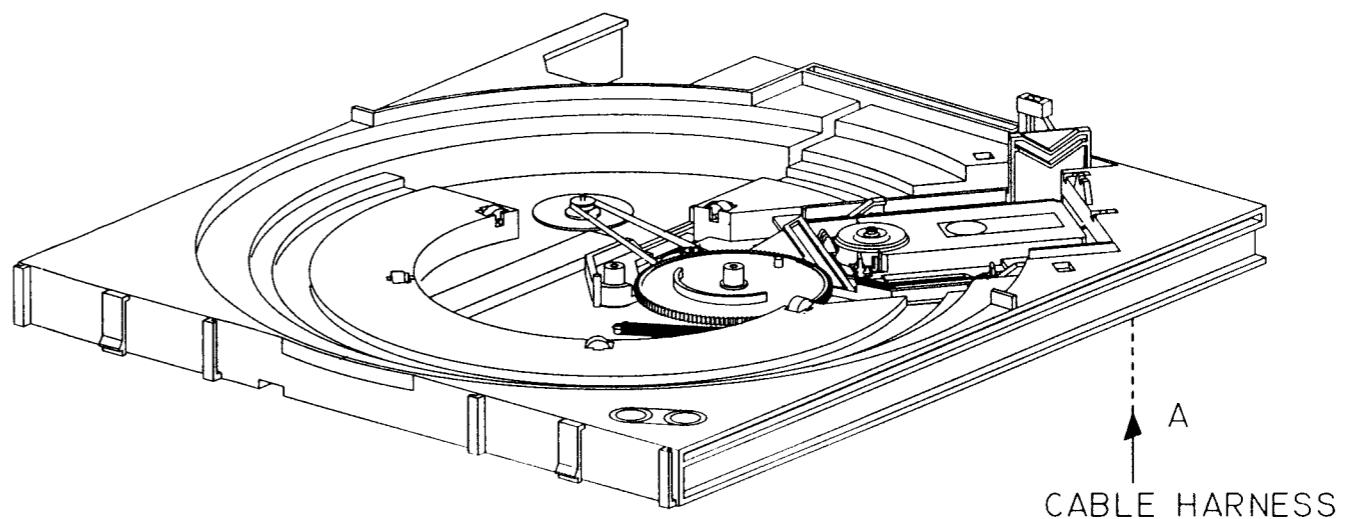
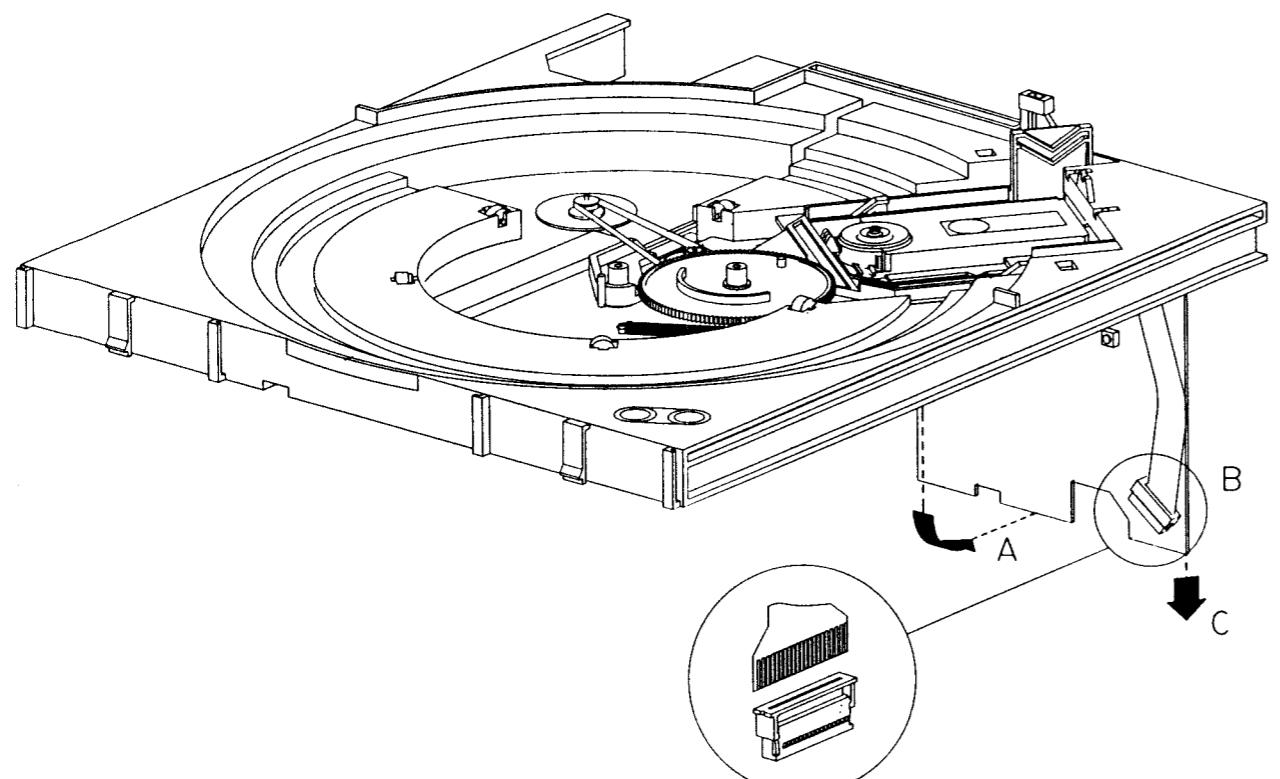


HAS.1046

**DEMOUNTING OF CARROUSEL
DEMOUNTING OF CDM**



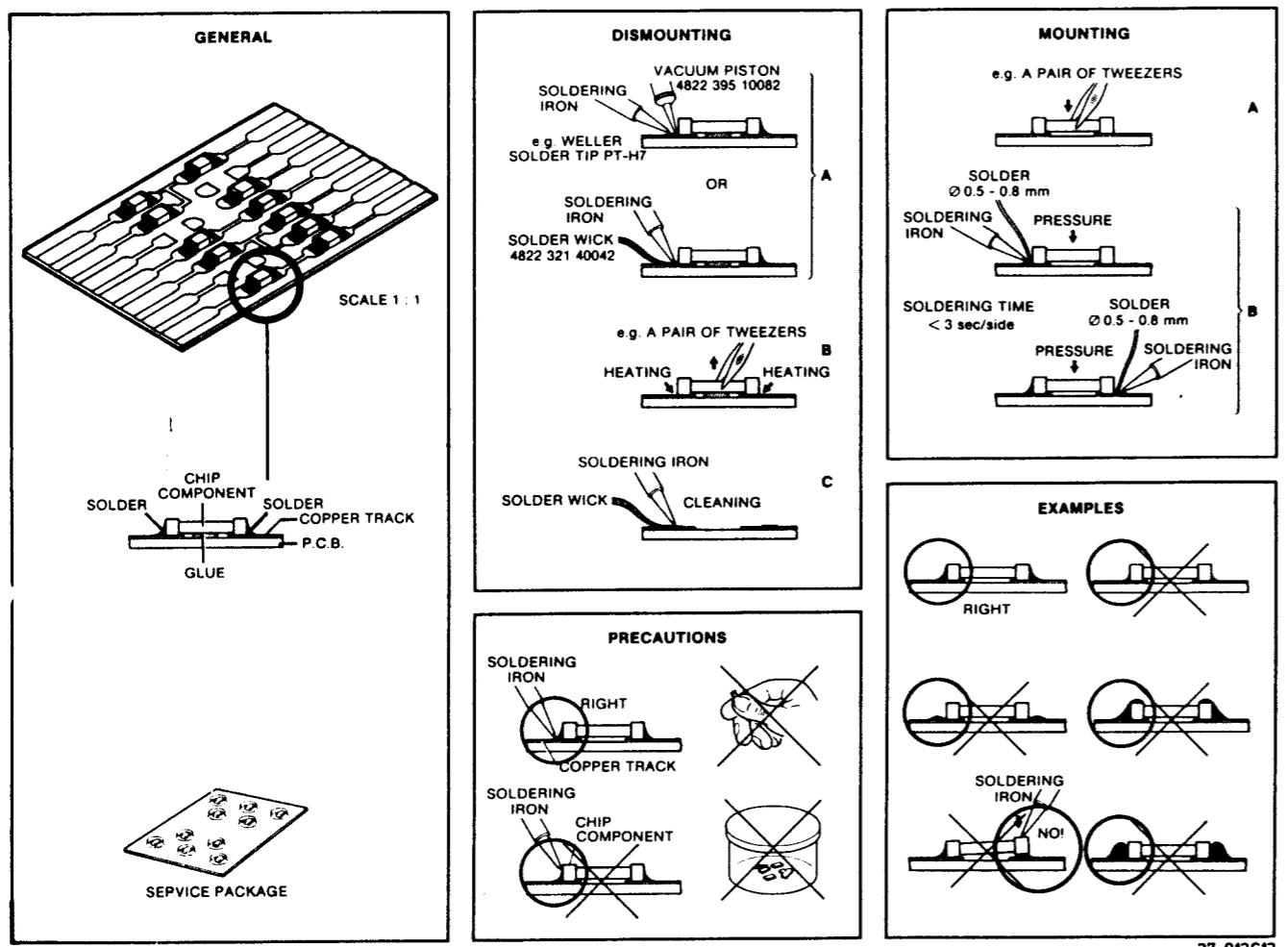
DEMOUNTING OF CDM



HAS 1048

SERVICING HINTS

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

**SERVICE HINT ABOUT PHOTOTRANSISTOR 7701**

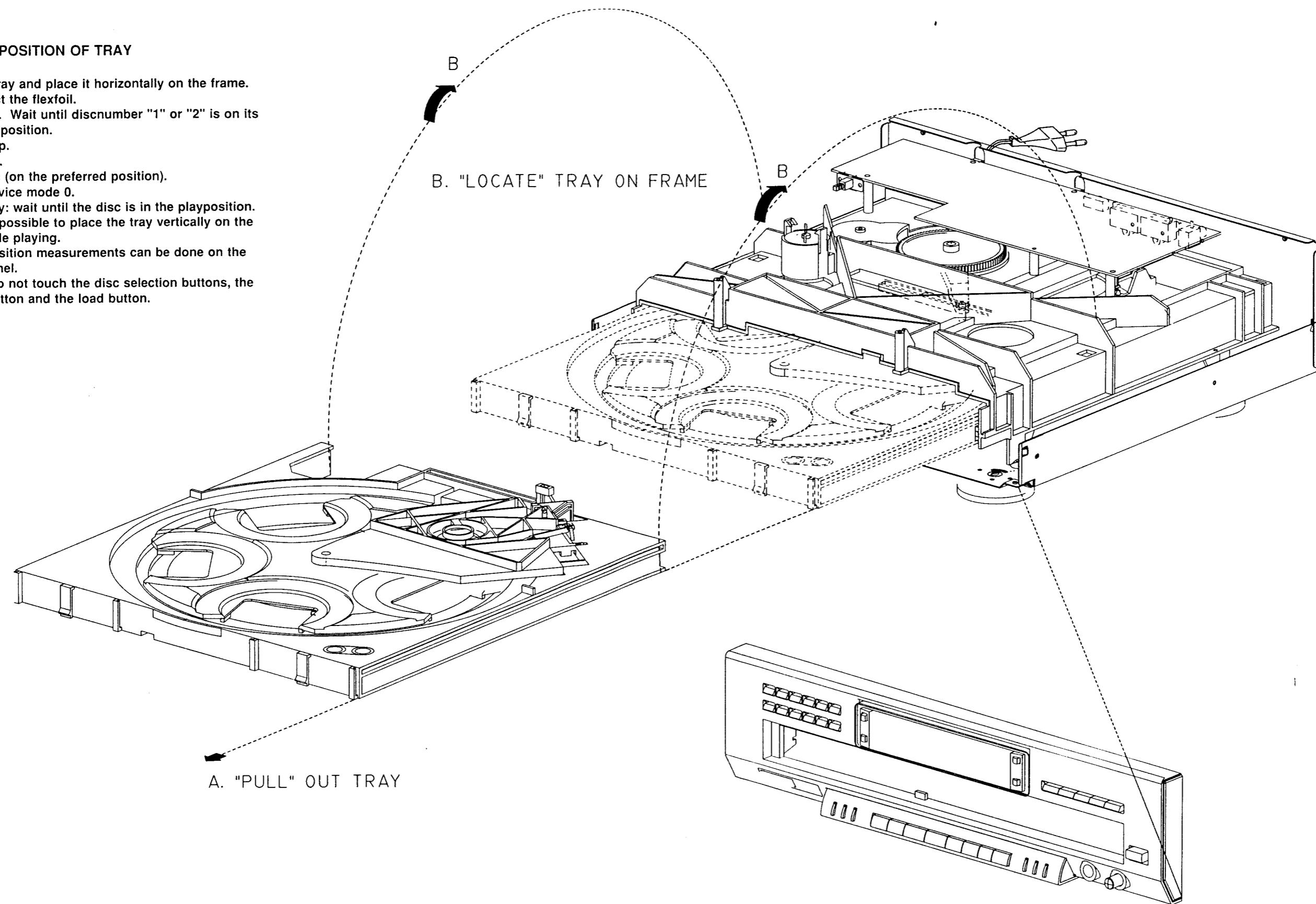
The disc detection does not work when the decoder panel is demounted and when external light falls on the phototransistor.

This can be prevented by covering the transistor with a piece of paper or a cloth.

SERVICING HINTS

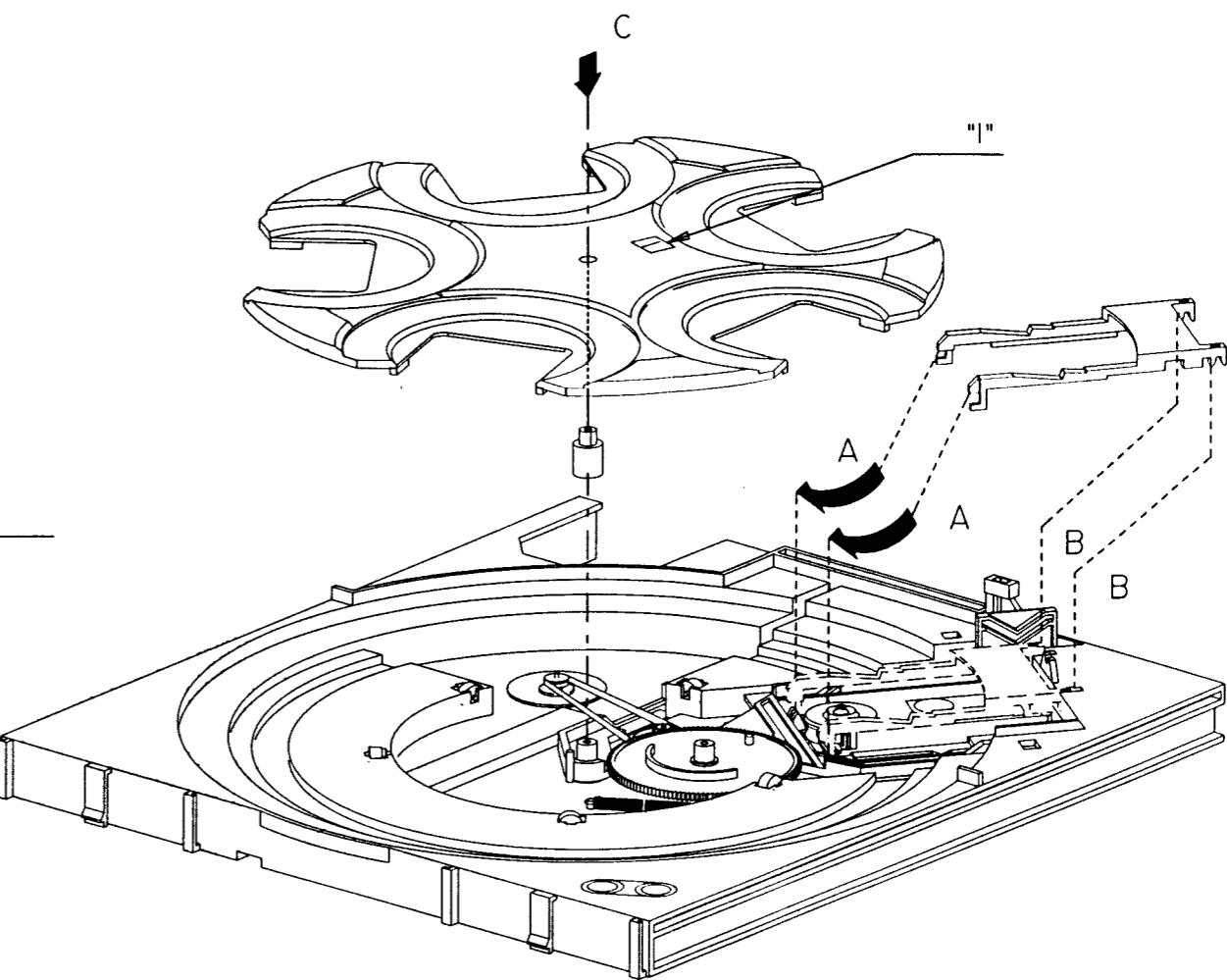
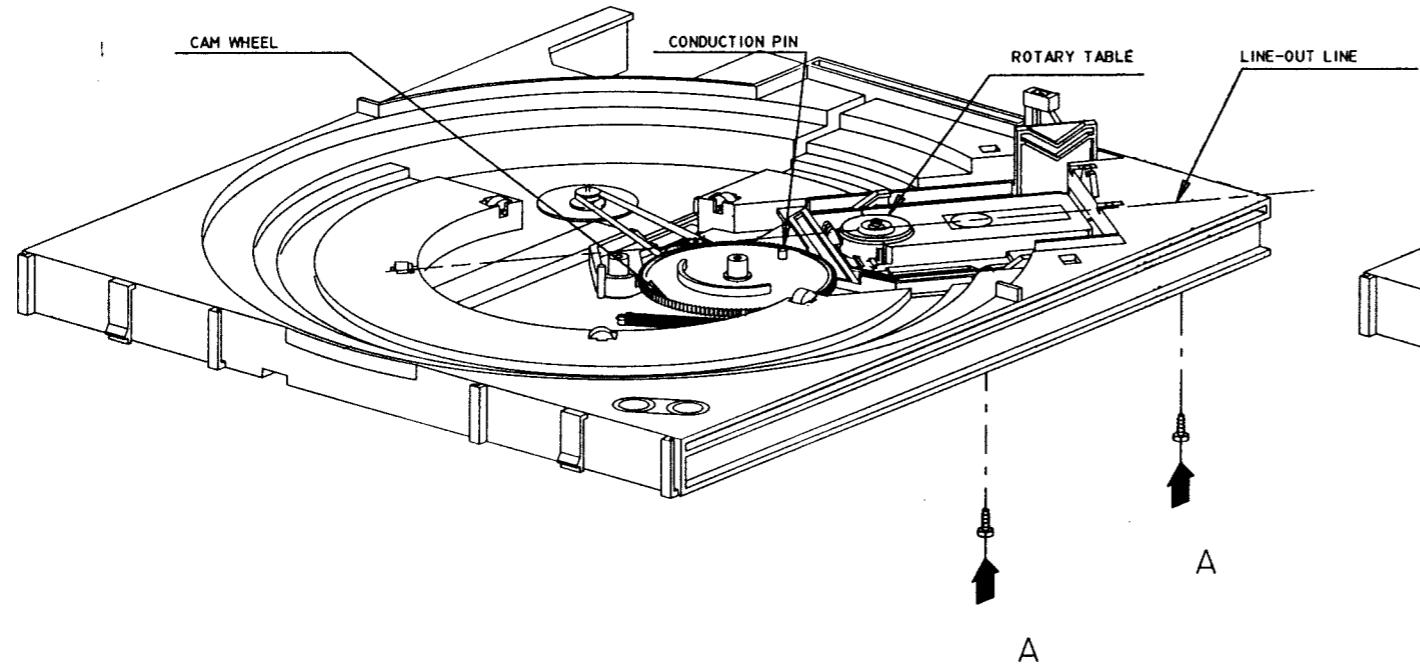
SERVICE POSITION OF TRAY

- Pull out tray and place it horizontally on the frame.
 - Reconnect the flexfoil.
 - Power on. Wait until discnumber "1" or "2" is on its preferred position.
 - Press stop.
 - Power off.
 - Load disc (on the preferred position).
 - Go to service mode 0.
 - Press play: wait until the disc is in the playposition.
 - Now it is possible to place the tray vertically on the frame while playing.
 - In this position measurements can be done on the Servo Panel.
- Please: do not touch the disc selection buttons, the shuffle button and the load button.

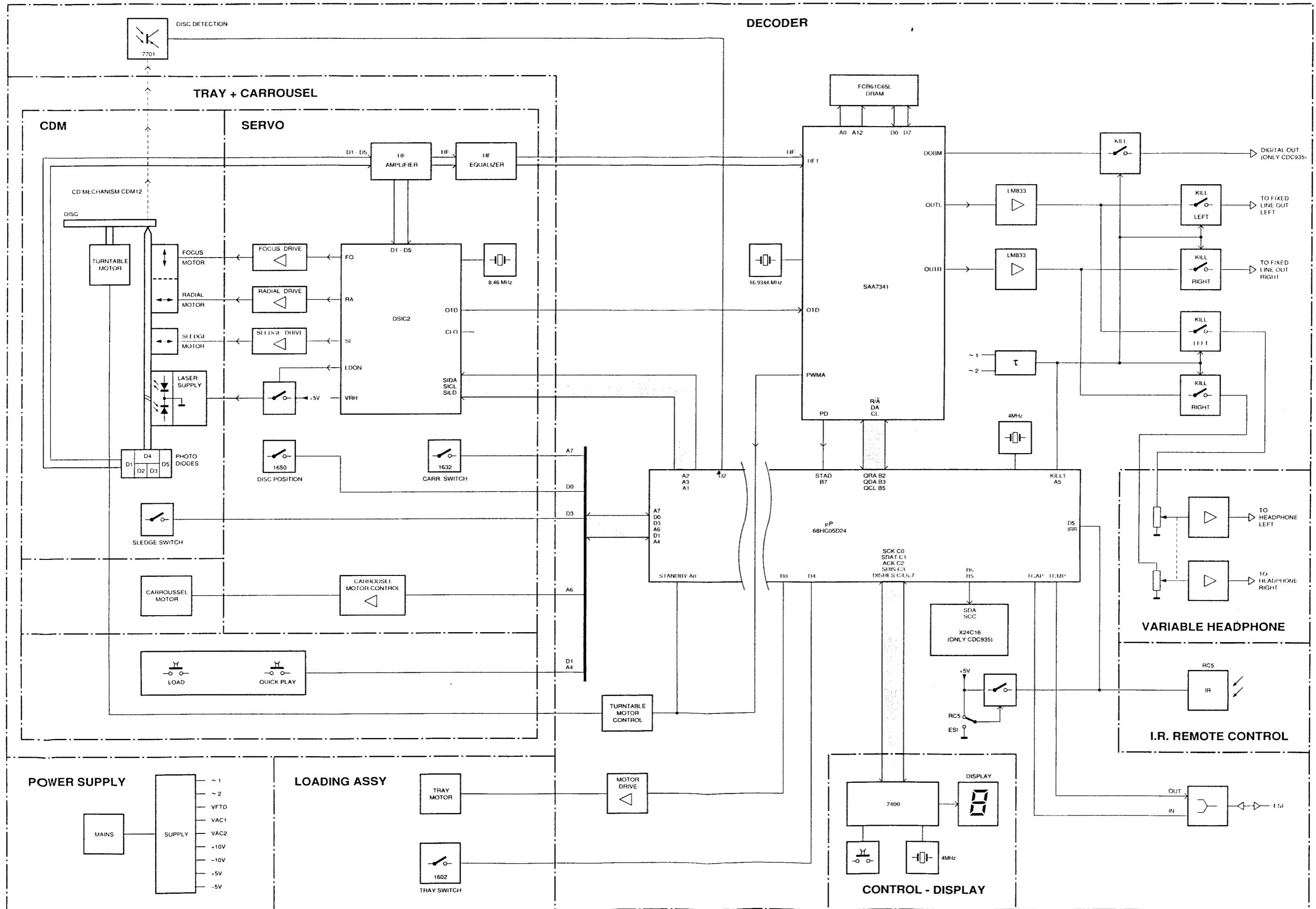


ASSEMBLY OF THE CAROUSEL

Turn camwheel (Exploded View item 116) until the conduction pin is in line with the rotary table of the CDM and the axis of the carousel, or until the conduction pin is close to the CDM. The CDM is now in the highest position (Play position). Mount the carousel with the discnumber "1" to the CDM.



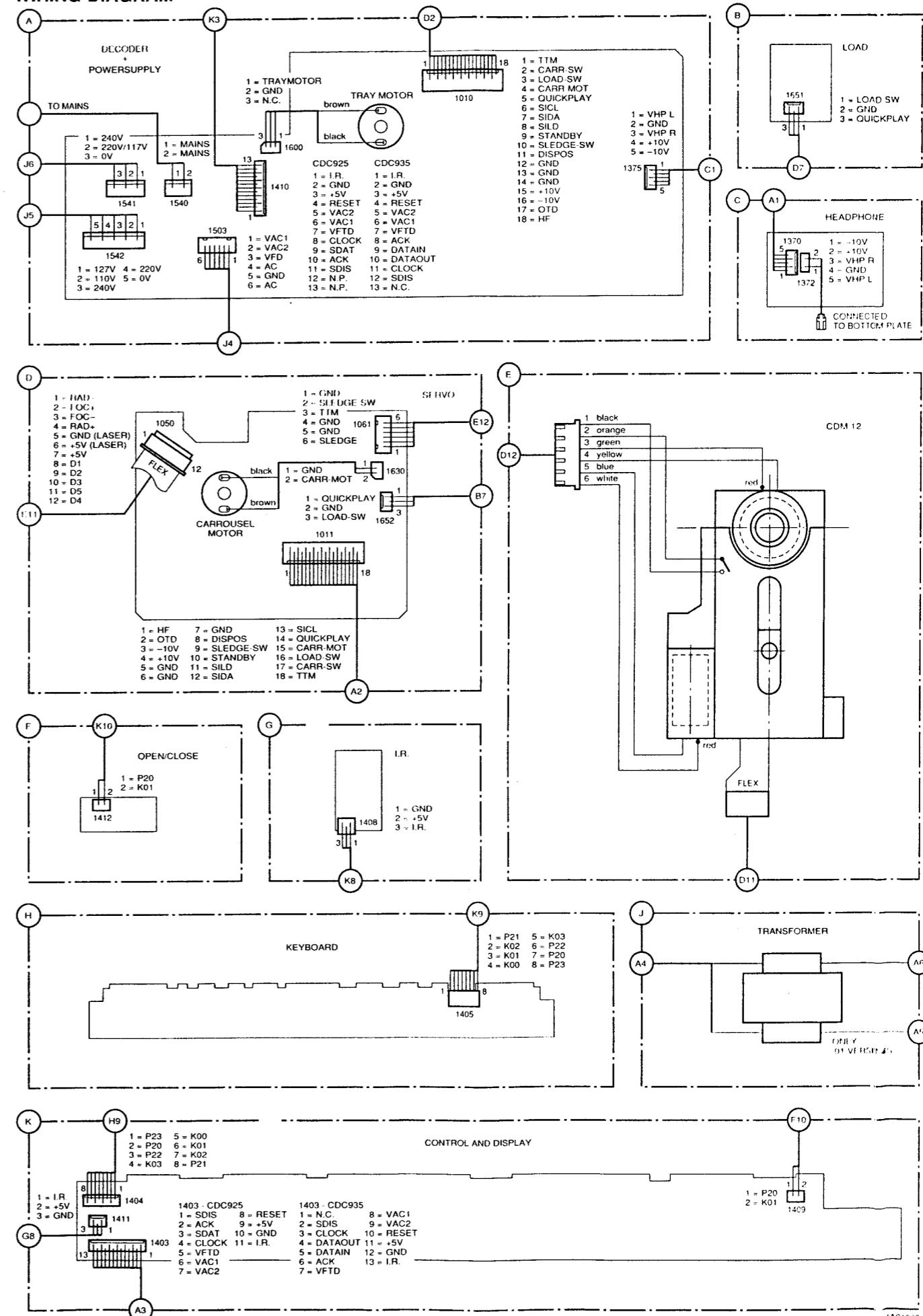
BLOCKDIAGRAM



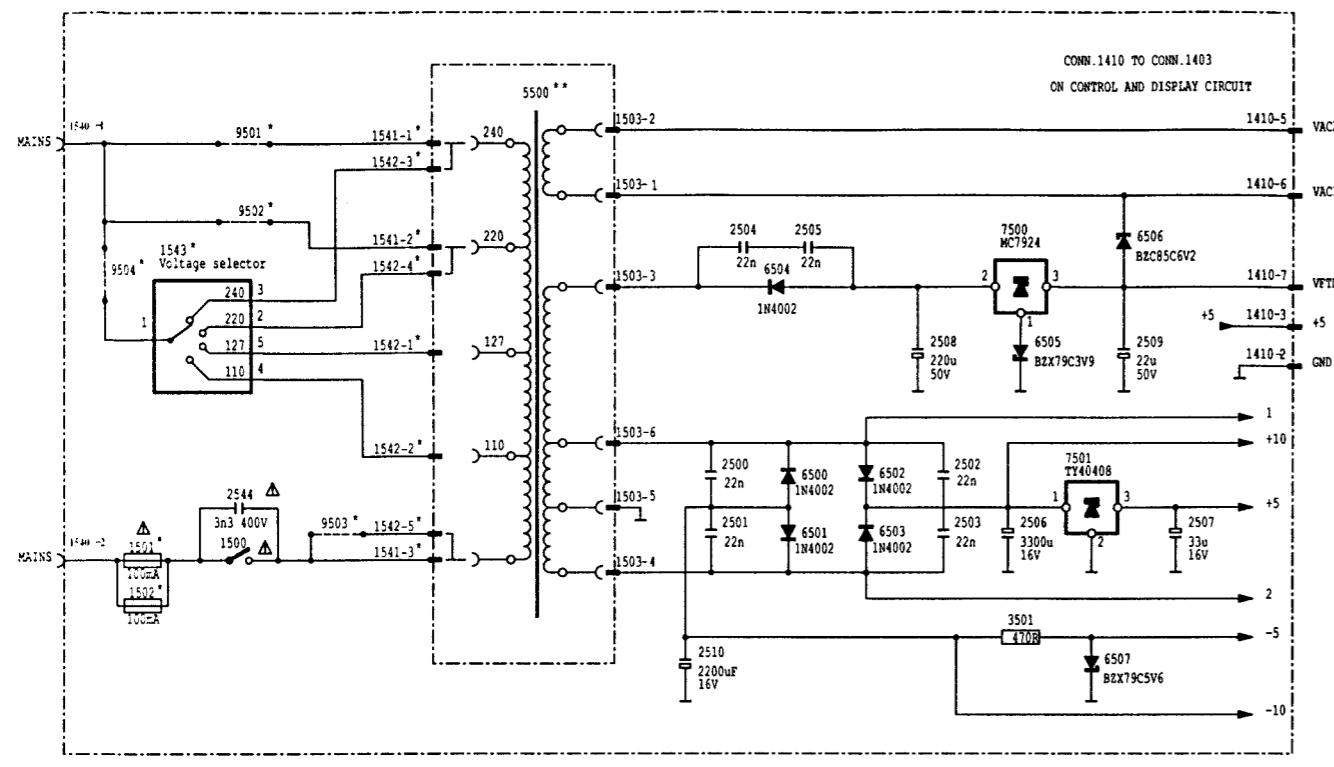
A0-A12	- Address outputs to external RAM
AC	- Alternating current
ACK	- Acknowledge signal
AM	- Additional mute
CARR-MOT	- Carrousel motor
CARR-SW	- Carrousel switch
CFB	- Data slicer feedback output
CL	- Microprocessor interface clock input
CLOCK	- Clock output
C.W.	- Continuous wave
D1 - D4	- Central diode signal input
D0 - D7	- Data inputs/outputs to external RAM
DA	- Microprocessor interface data i/o line
DATAIN	- Data input
DATAOUT	- Data output
DE1L	- Pin for external de-emphasis cap. and res.
DE1R	- Pin for external de-emphasis cap. and res.
DE2L	- Pin for external de-emphasis cap. and res.
DE2R	- Pin for external de-emphasis cap. and res.
DISPOS	- Disc position
DOBM	- Digital audio output
ESI	- Enhanced system intelligence
FO	- Focus actuator output
FOC+ -	- Focus actuator
GND	- Ground
HF	- High frequency
HFI	- Non inverting data slicer input
I.R.	- Infra red
IREF	- Current reference output
KO	- Kill out
KTC	- Kill time capacitor connection
LDON	- Laser drive on
LOAD-SW	- Load switch
MACC	- Motor accelerate signal
MBRA	- Motor brake signal
MHAL	- Hall effect detector for motor
N.C.	- Not connected
N.P.	- No pin
NRST	- Reset input
OC	- VCO control
OUTL	- Left channel output
OUTR	- Right channel output
OTD	- Off track detector
PD	- Phase detector output
PWMA	- Pulse width modulated motor control acceleration signal
PWMB	- Pulse width modulated motor control brake signal
QCL	- Q - channel clock signal
QDA	- Q - channel data signal
QRA	- Q - channel request acknowledge signal
RA_	- Radial actuator output
R/A	- Request/acknowledge
RAD+ -	- Radial actuator
SDAT	- Serial data
SDIS	- Select display
SICL	- Serial interface clock
SIDA	- Serial interface data
SILD	- Serial interface load
SL	- Sledge
SLEDGE-SW	- Sledge switch
ST	- Standby mode
STAD	- Start up aid
TS1 - 2	- Test pins
TTM	- Turntable motor
VDDA	- Analog power supply

VDDD	- Digital power supply
VDDL	- Analog supply left channel integrator
VDDR	- Analog supply right channel integrator
VHP	- Variable headphone
VREFL	- Internal reference voltage DAC
VREFR	- Internal reference voltage DAC
VSSA	- Analog ground
VSSD	- Digital ground
VSSDACL	- Analog ground left channel DAC
VSSDACP	- Analog ground right channel DAC
VSSL	- Analog ground left channel integrator
<u>VSSR</u>	- Analog ground right channel integrator
WE	- Write enable
XIN	- Oscillator signal in
XOUT	- Oscillator signal out
XTLI	- Oscillator input
XTLO	- Oscillator output
XTLR	- Oscillator reference

WIRING DIAGRAM



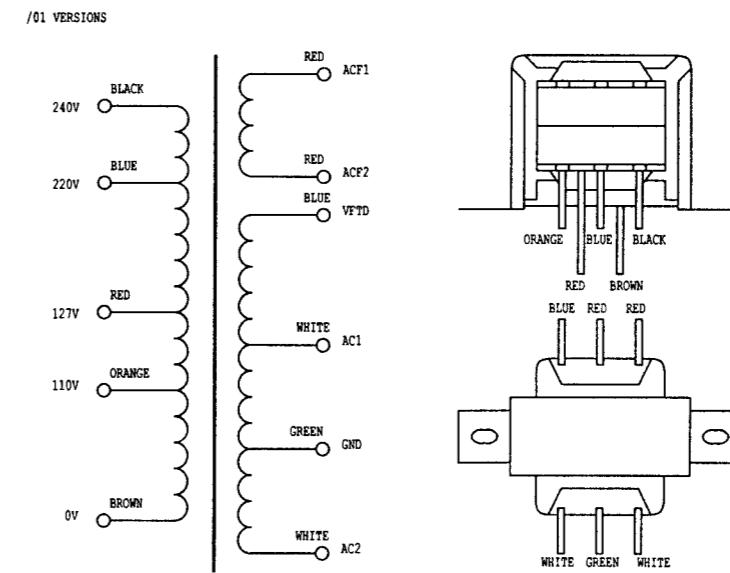
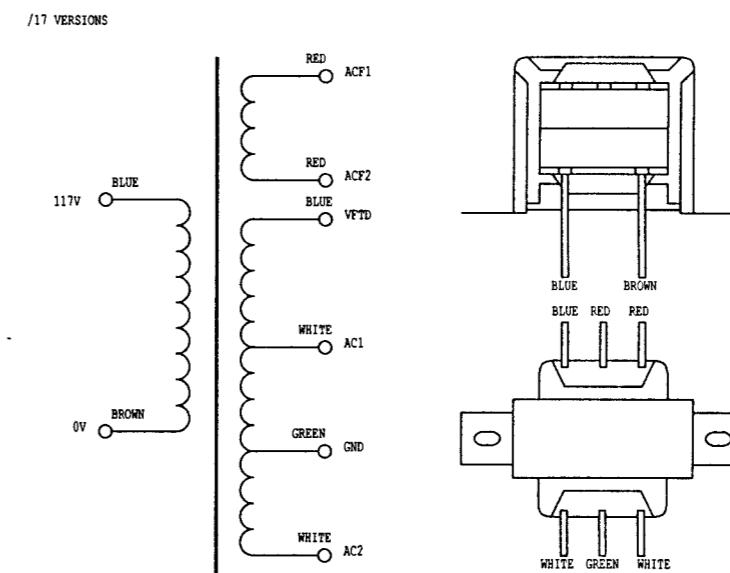
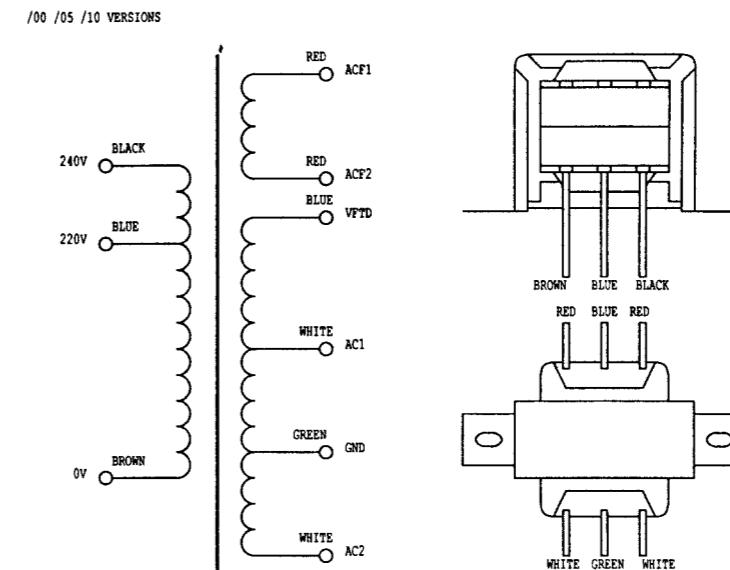
POWER SUPPLY DIAGRAM



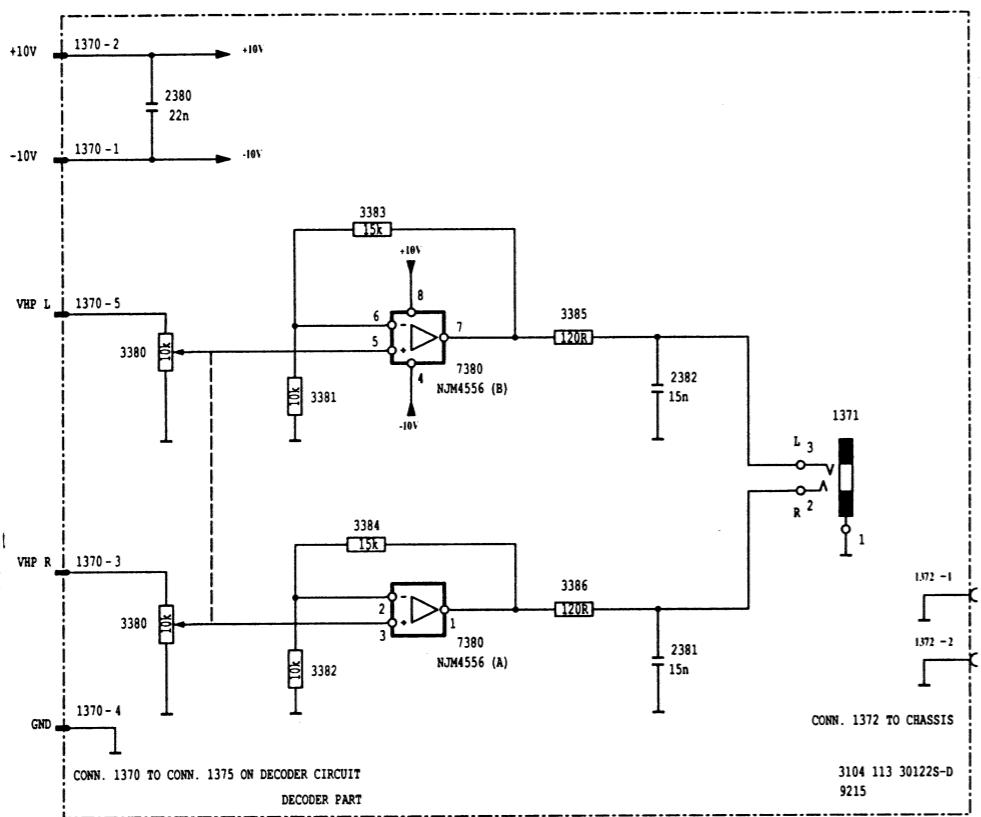
*	/00	/01	/05	/10	/17
1501	100mA	-	100mA	100mA	200mA
1502	-	100mA	-	-	-
1541	X	-	X	X	X
1542	-	X	-	-	-
1543	-	X	-	-	-
9501	-	X	X	-	-
9502	X	-	-	X	-
9503	-	X	-	-	-
9504	-	X	-	-	-

** 5500 /00 /05 /10
/17 4822 146 31102
4822 146 31104

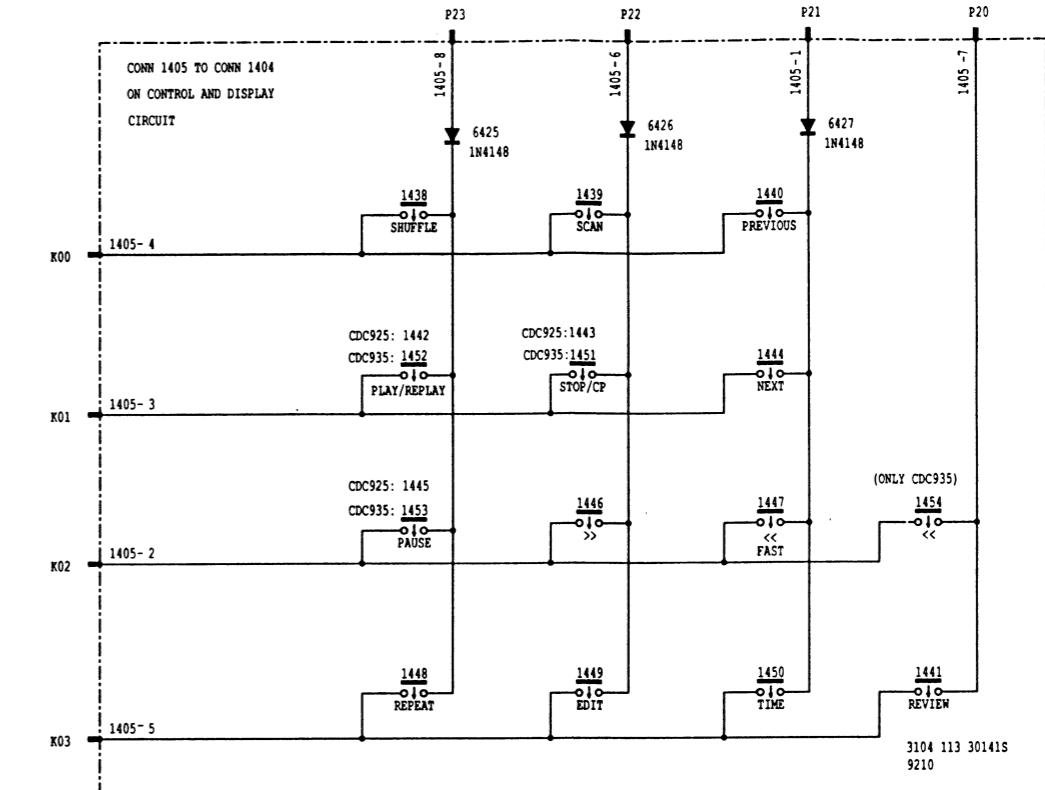
TRANSFORMER CONNECTIONS



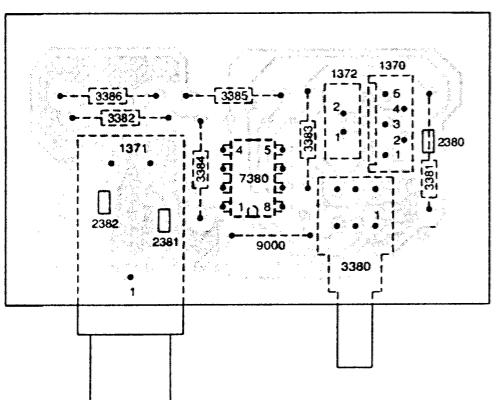
VARIABLE HEADPHONE CIRCUIT DIAGRAM



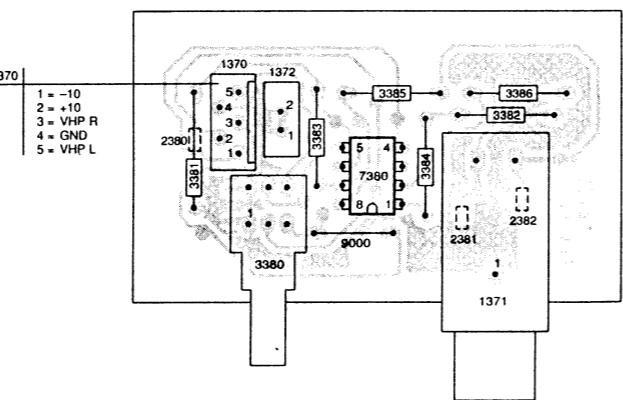
KEYBOARD CIRCUIT DIAGRAM



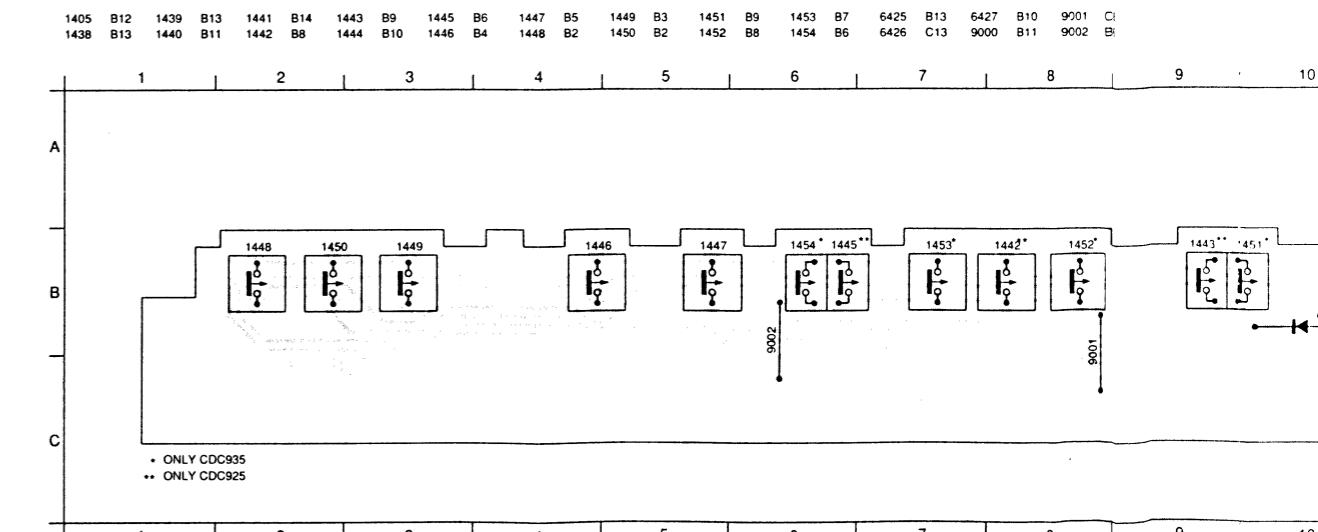
VARIABLE HEADPHONE PANEL SOLDER SIDE



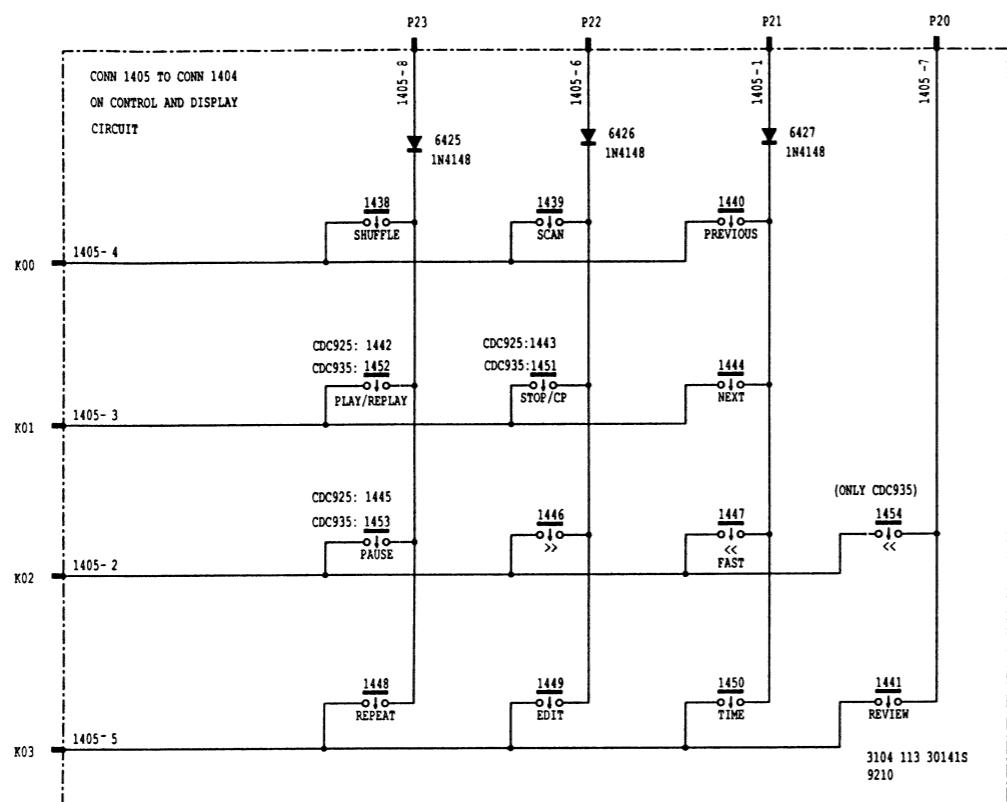
COMPONENT SIDE



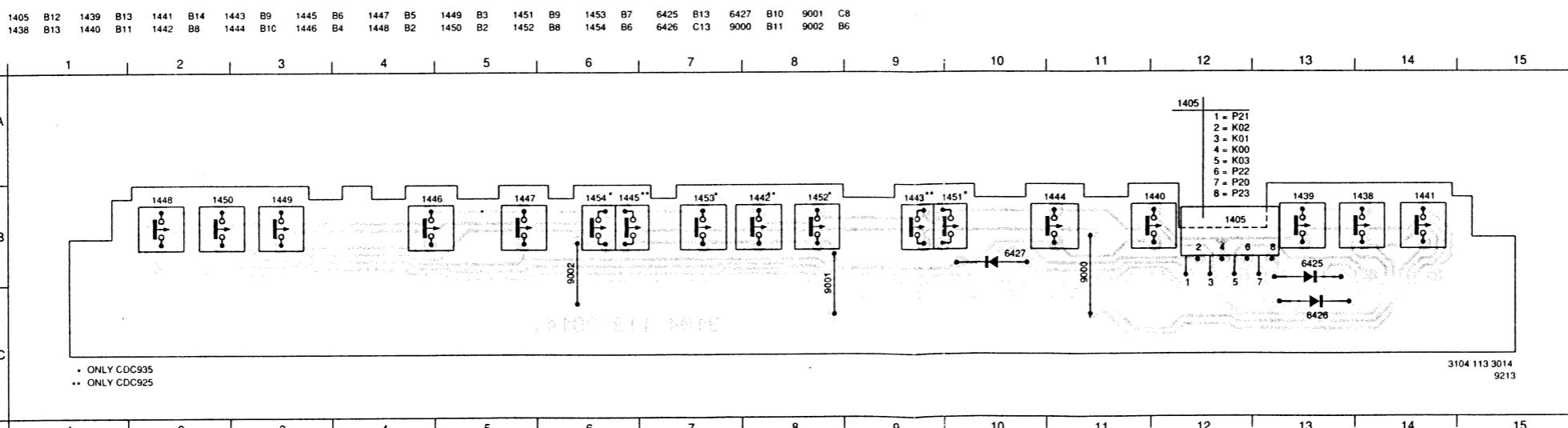
KEYBOARD PANEL



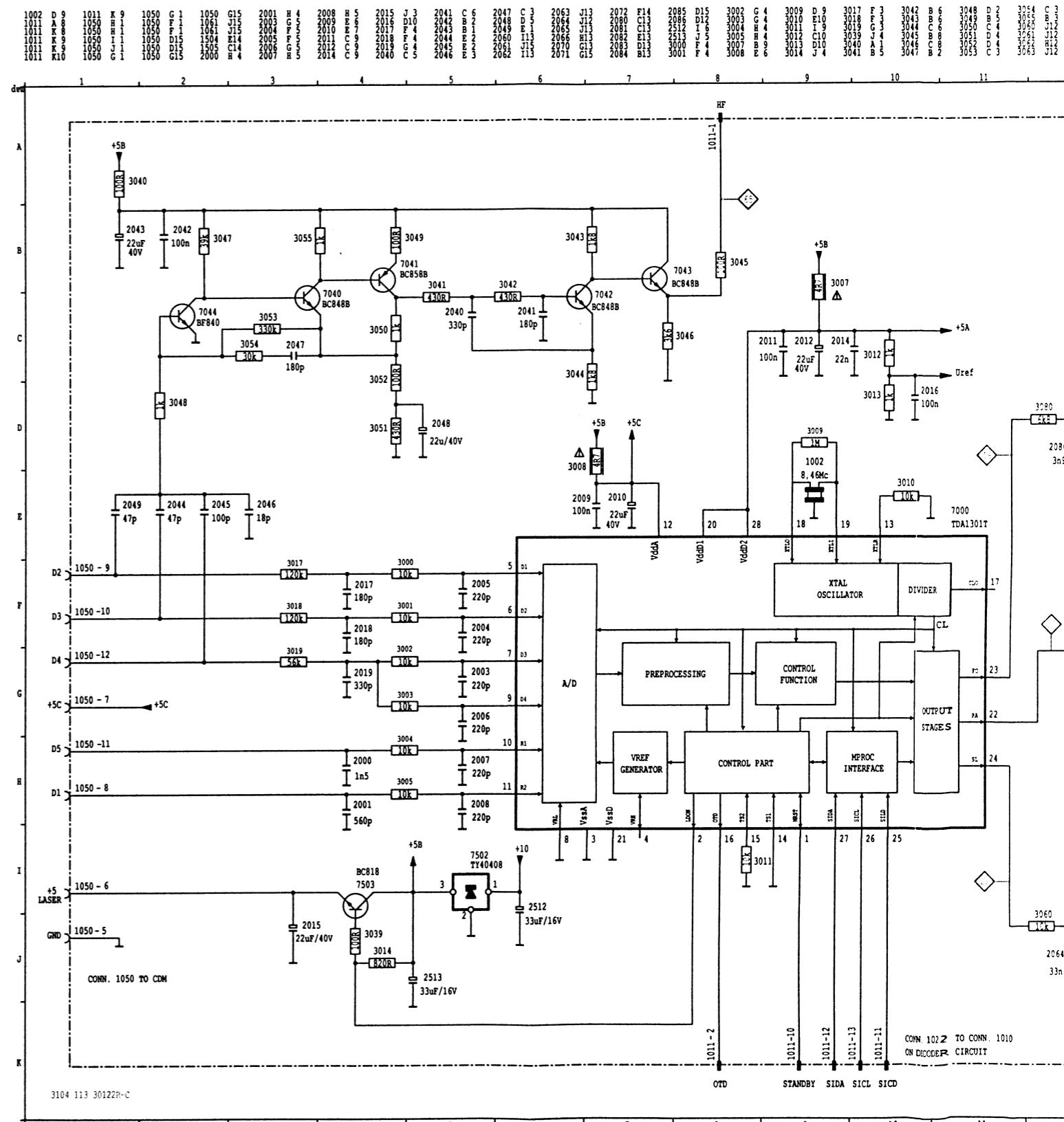
KEYBOARD CIRCUIT DIAGRAM



KEYBOARD PANEL

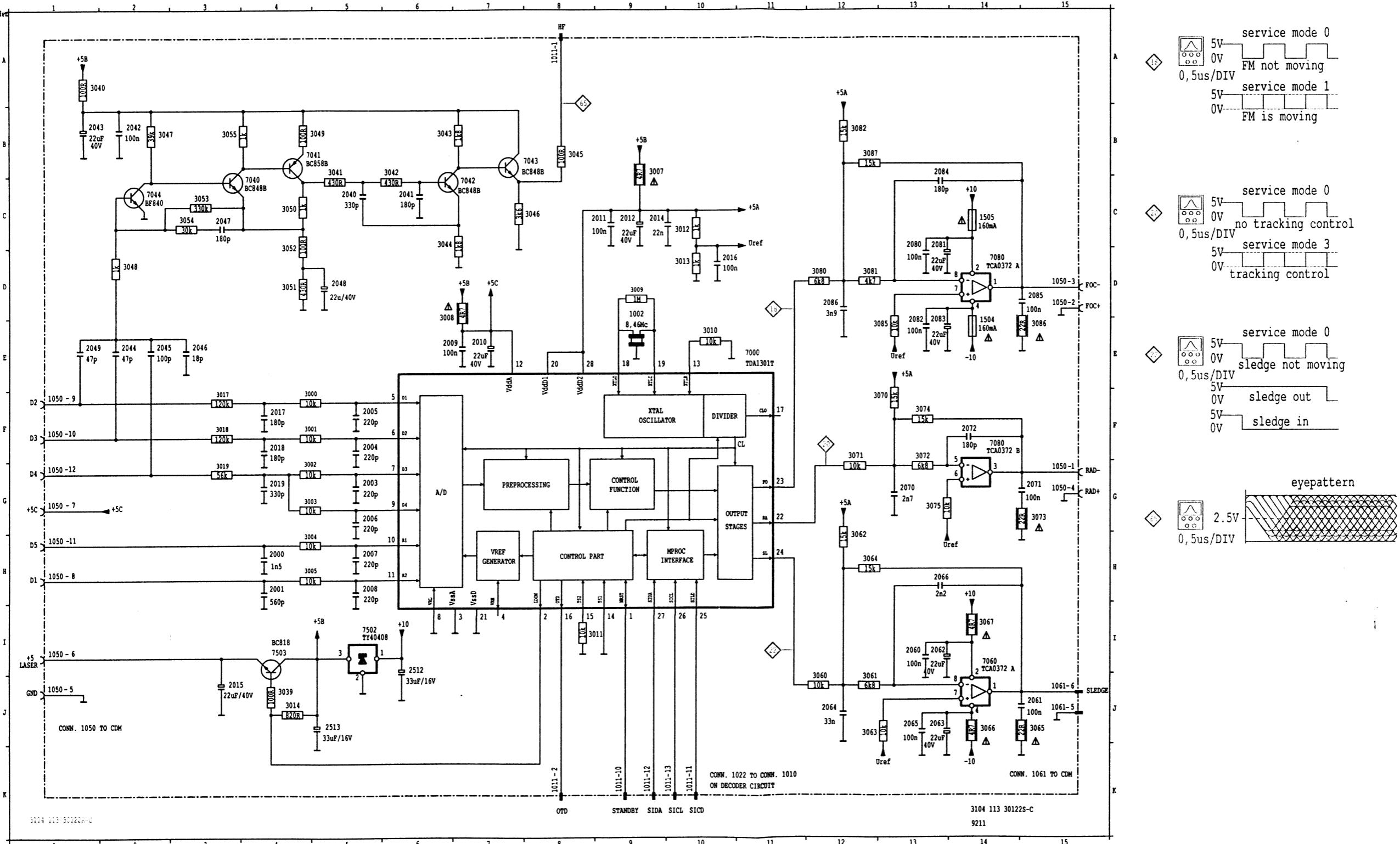


SERVO CIRCUIT DIAGRAM
SERVO-1



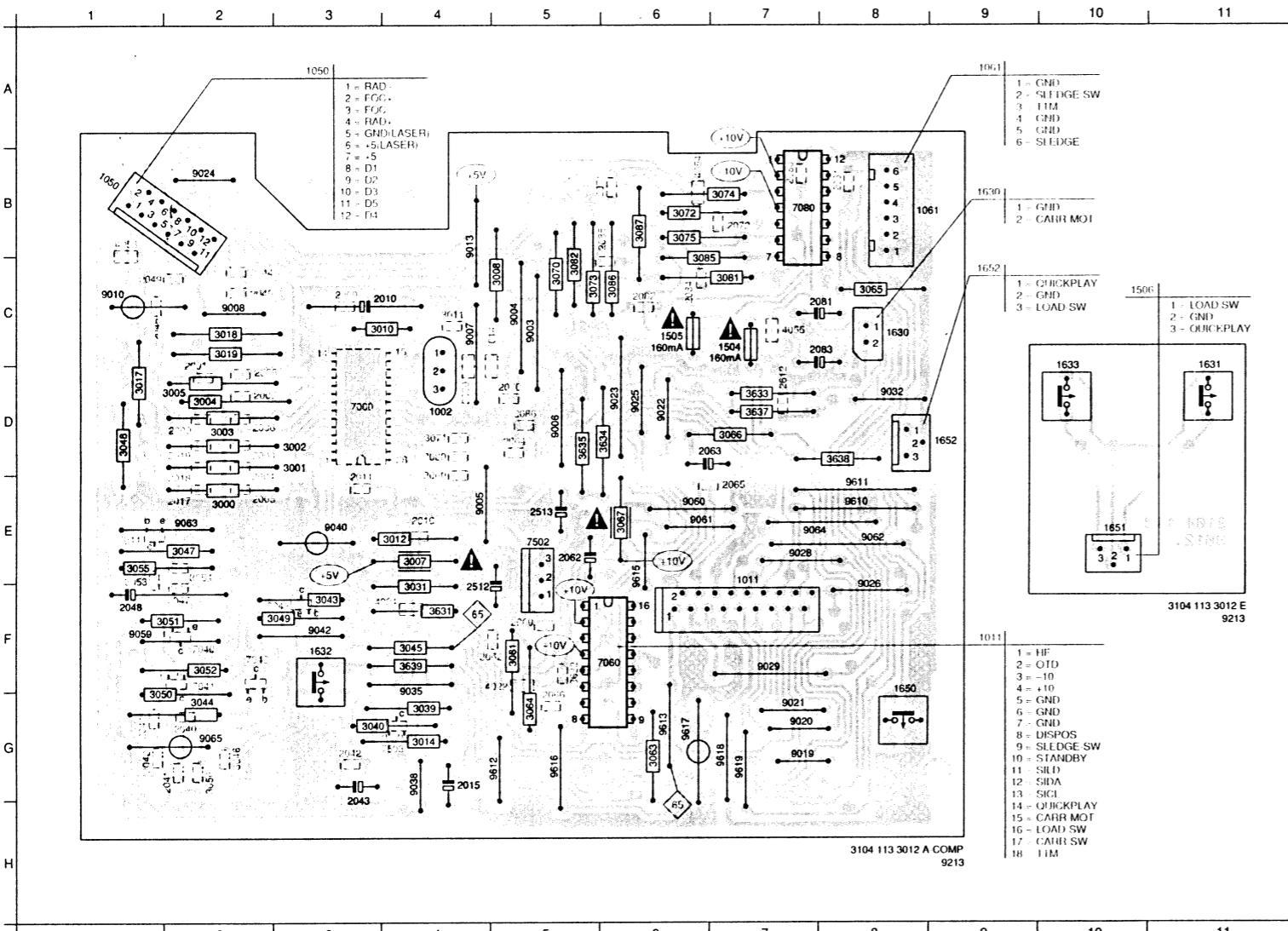
**SERVO CIRCUIT DIAGRAM
SERVO-1**

1002	D 9	1011	K 9	1050	G 1	1050	G15	2003	H 4	2008	H 5	2015	J 3	2041	C 6	2047	C 5	2063	J13	2072	F14	2085	D15	3003	G 4	3009	D 9	3017	F 3	3042	B 6	3048	B 2	3054	B 3	3064	B12	3072	F13	3082	B12	7041	B 4	7080	I 4
1011	K 8	1050	H 1	1050	F 1	1061	J15	2004	F 5	2010	E 7	2017	P 4	2043	B 1	2049	E 1	2064	J13	2081	C13	2086	I 6	3004	H 4	3011	I 9	3019	G 3	3044	C 6	3050	C 4	3060	J13	3066	J14	3074	F13	3085	E 13	7043	B 7	7503	I 4
1011	K 9	1050	I 1	1050	D15	1504	E14	2005	F 5	2011	C 9	2018	F 4	2044	E 2	2060	J13	2076	H13	2082	E13	2513	J 5	3005	H 4	3012	C 10	3039	J 4	3045	B 6	3052	D 4	3061	J12	3068	J14	3074	F13	3086	E 13	7043	B 7	7503	I 4
1011	K 10	1050	G 1	1050	G15	2000	H 5	2007	C 9	2012	C 9	2014	C 9	2040	G 5	2046	E 3	2062	I13	2071	G13	2083	B13	3001	P 4	3007	E 4	3014	J 4	3041	B 5	3047	B 2	3053	C 3	3063	J12	3070	P13	3081	D12	7040	C 4	7080	D14



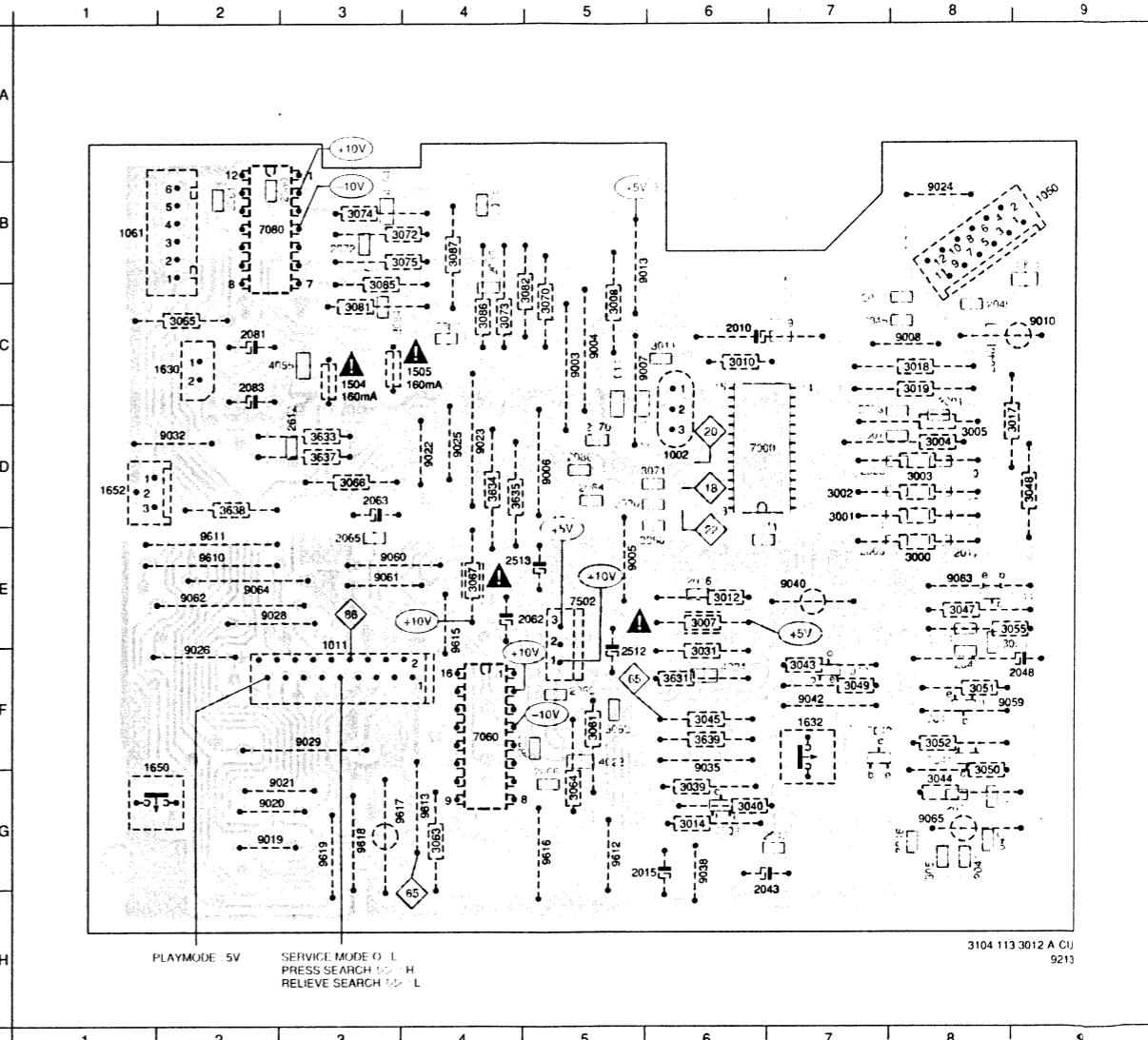
SERVO PANEL COMPONENT SIDE LOAD PANEL

1002	D4	1652	D9	2014	C5	2046	C1	2071	B6	3000	E2	3014	G4	3046	G2	3061	F5	3075	B6	3637	D7	7043	F2	9010	C1	9032	D8	9610	E8
1011	F7	2000	D2	2015	G4	2047	F2	2072	B7	3001	D3	3017	D1	3047	E2	3062	F4	3080	D4	3638	D8	7044	E1	9013	C4	9035	G4	9611	E8
1050	B1	2001	D2	2016	E4	2048	F1	2080	B7	3002	D3	3018	C2	3048	D1	3063	G6	3081	C7	3639	F4	7060	F5	9019	G7	9038	G4	9612	G5
1061	B8	2003	D2	2017	E2	2049	C1	2081	C7	3003	D2	3019	C2	3049	F2	3064	G5	3082	C5	4022	F4	7080	B7	9020	G7	9040	E3	9613	G6
1504	C7	2004	E2	2018	E2	2060	F5	2082	C6	3004	D2	3031	F4	3050	G1	3065	C8	3085	C6	4024	F3	7052	E5	9021	G7	9042	F3	9615	F6
1505	C6	2005	E2	2019	D2	2061	B8	2083	C7	3005	D1	3039	G4	3051	F1	3066	D7	3086	C6	4053	B1	7503	G4	9022	D6	9059	F1	9616	G5
1630	C8	2006	D2	2040	G2	2062	E5	2084	C6	3007	E4	3040	G3	3052	F2	3067	E6	3087	B6	4054	B6	9003	C5	9023	D6	9060	E6	9617	G6
1631	D11	2007	D2	2041	G2	2063	D6	2085	B6	3008	C5	3041	G1	3053	F1	3070	C5	3631	F4	4055	C7	9004	C5	9024	B2	9061	E6	9618	G7
1632	F3	2008	D2	2042	G3	2064	D5	2086	D5	3009	D4	3042	G1	3054	E2	3071	D4	3632	F5	7000	D3	9005	E4	9025	D6	9062	E8	9619	G7
1633	D10	2009	C3	2043	H3	2065	E7	2512	F4	3010	C3	3043	F3	3055	E1	3072	B6	3633	D7	7040	F2	9006	D5	9026	F8	9063	E2		
1650	G8	2010	C3	2044	C2	2066	G5	2515	E3	3011	C4	3044	G2	3056	G2	3073	C5	3634	D6	7041	F2	9007	C4	9028	E7	9064	E7		
1651	F10	2011	E3	2045	C2	2070	D5	2612	D7	3012	E4	3045	F4	3060	E4	3074	B7	3635	D5	7042	F2	9008	C2	9029	F7	9065	G2		



SERVO PANEL SOLDER SIDE

1002	D6	2005	E7	2041	G8	2065	E3	2612	D3	3017	D9	3049	F7	3066	D3	3631	F6	7040	F8	9008	C8	9035	G6	9613	G-
1011	F3	2006	D7	2042	G6	2066	G5	3000	E8	3018	C8	3050	G8	3067	E4	3632	F5	7041	F8	9010	C9	9038	G6	9615	G+
1050	B9	2007	D7	2043	H6	2070	D5	3001	D7	3019	C8	3051	F8	3070	C5	3633	D3	7042	F7	9013	C6	9040	E7	9616	G+
1061	B1	2008	D7	2044	C7	2071	B4	3002	D7	3031	F6	3052	F8	3071	D5	3634	D4	7043	F7	9019	G2	9042	F7	9617	G+
1504	C3	2009	C7	2045	C7	2072	B3	3003	D8	3039	G6	3053	F8	3072	B3	3635	D4	7044	E8	9020	G2	9059	F8	9618	G+
1505	C4	2010	C6	2046	C8	2080	B3	3004	D8	3040	G6	3054	E8	3073	C4	3637	D3	7060	F4	9021	G2	9060	E3	9619	G+
1630	C1	2011	E6	2047	F8	2081	C2	3005	D8	3041	G8	3055	F8	3074	B3	3638	D2	7080	B2	9022	D4	9061	E3		
1632	F7	2014	C5	2048	F8	2082	C4	3007	E6	3042	G8	3056	G8	3075	B3	3639	F6	7052	E5	9023	D4	9052	E2		
1650	G1	2015	G5	2049	C8	2083	C2	3008	C5	3043	F7	3060	E5	3080	D5	4022	F5	7503	G6	9024	B8	9063	E8		
1652	D1	2016	E6	2060	F5	2084	C3	3009	D6	3044	G8	3061	F5	3081	C3	4024	F6	9003	C5	9025	D4	9064	E2		
2000	D8	2017	E8	2061	B2	2085	B4	3010	C6	3045	F6	3062	F5	3082	C5	4053	B9	9004	C5	9026	F2	9065	G8		
2001	D8	2018	E8	2062	E4	2086	D5	3011	C6	3046	G8	3063	G4	3085	C3	4054	B3	9005	E5	9028	E2	9610	E2		
2003	D7	2019	D8	2063	D3	2512	F5	3012	E6	3047	E8	3064	G5	3086	C4	4055	C2	9006	D5	9029	F3	9611	E2		
2004	E7	2040	G8	2064	D5	2513	E4	3014	G6	3048	D8	3065	C2	3087	B4	7000	D6	9007	C6	9032	D2	9612	G5		

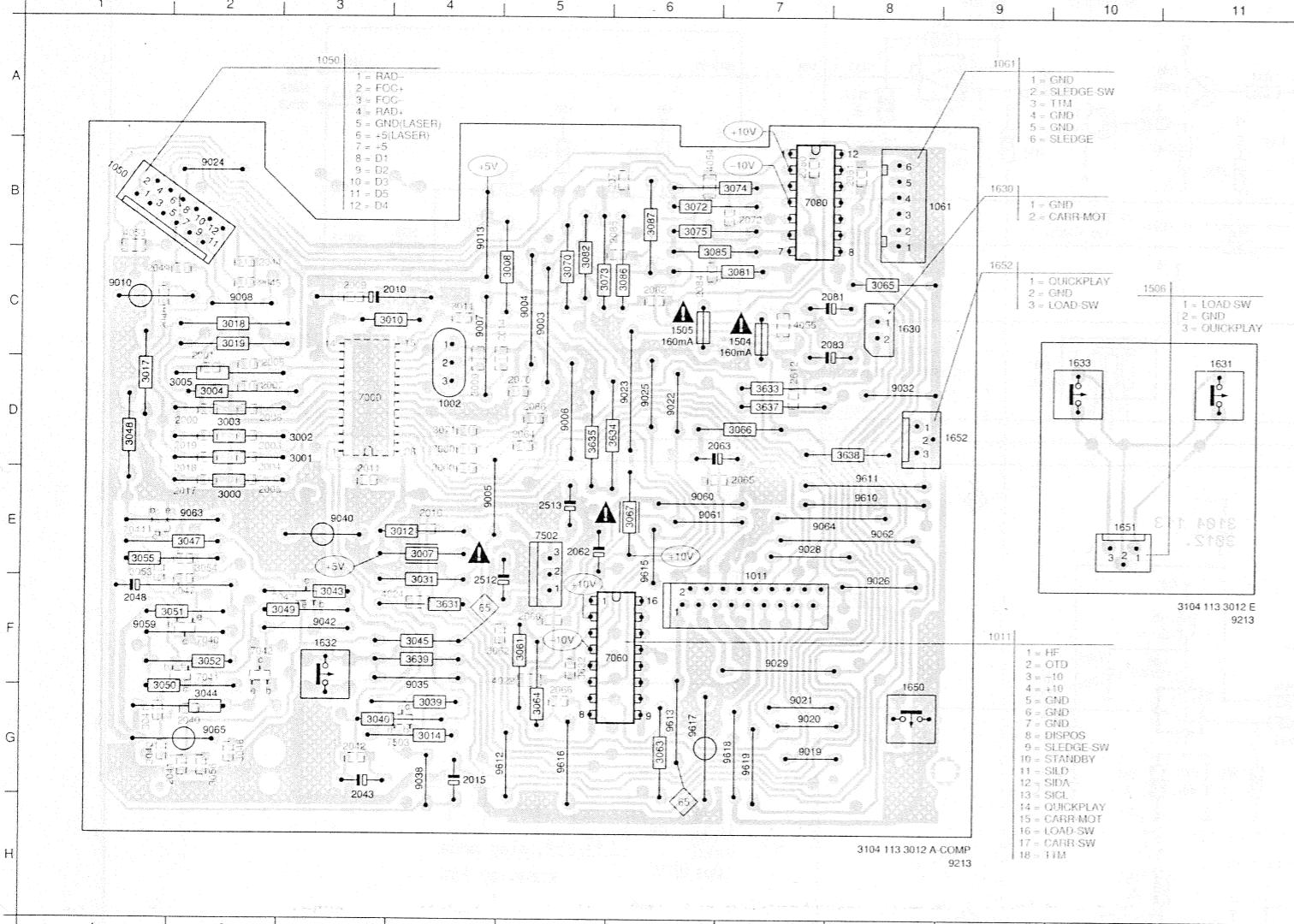


**SERVO PANEL COMPONENT SIDE
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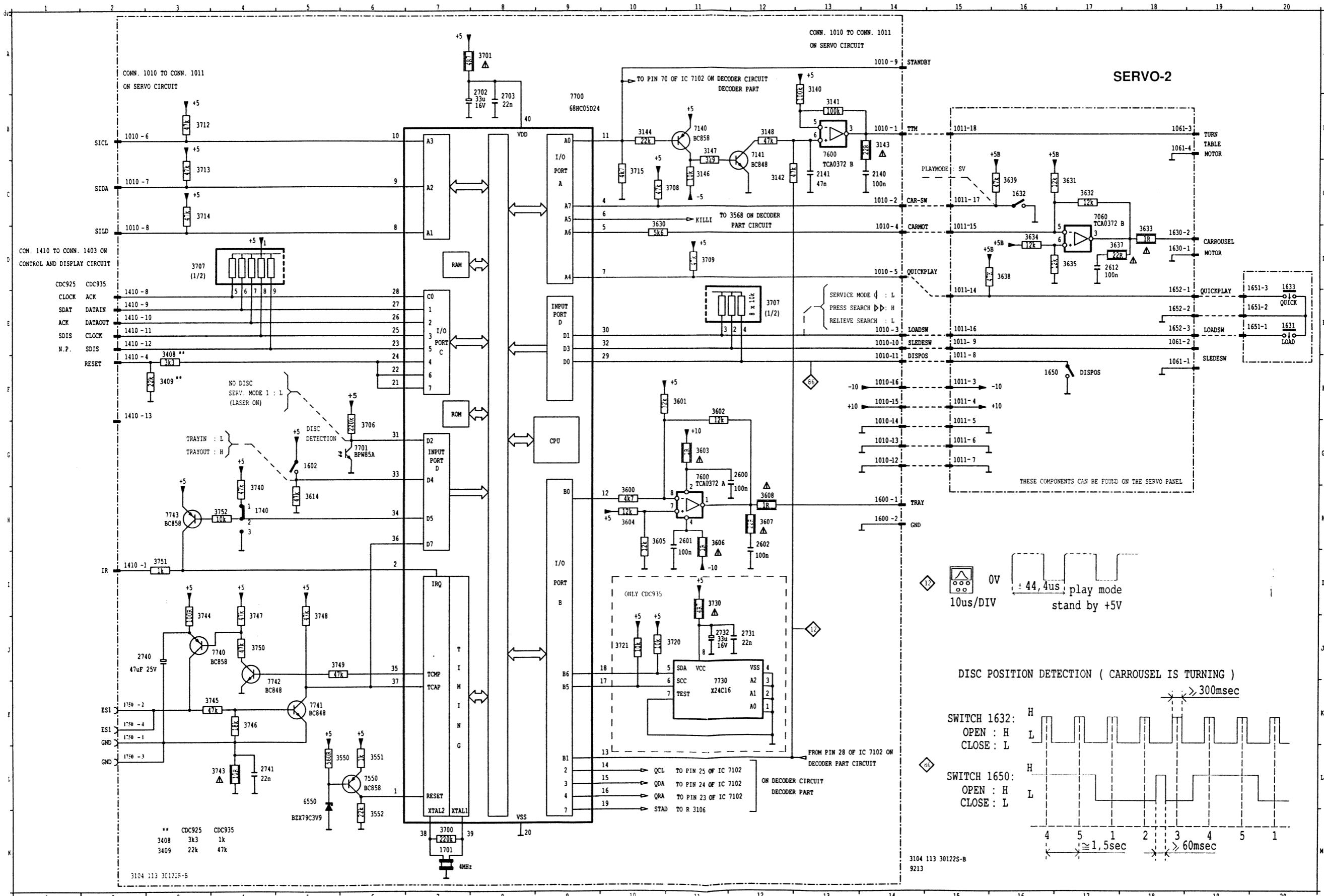
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1011	F7	2000	D2	2015	G4	2047	F2	2072	B7	3001	D3	3017	D1	3047	E2	3080	D4	3638	D8	7044	E1	9013	C4	9035	G4	9611	E8		
1050	B1	2001	D2	2016	E4	2048	F1	2080	B7	3002	D3	3018	C2	3048	D1	3063	G6	3081	C7	3639	F4	7060	F5	9019	G7	9038	G4	9612	G5
1061	B8	2003	D2	2017	E4	2049	C1	2081	C7	3003	D2	3019	C2	3049	F2	3064	G5	3082	C5	4022	F4	7080	B7	9020	G7	9040	E3	9613	G6
1504	C7	2004	E2	2018	E2	2050	F5	2082	C6	3004	D2	3021	F4	3050	G1	3055	C8	3065	C6	4024	F3	7021	G7	9042	F3	9615	F6		
1505	C8	2005	E2	2019	D2	2061	B8	2083	C7	3005	D1	3039	G4	3051	F1	3066	D7	3086	C6	4053	B1	7053	G4	9022	D6	9611	E3		
1630	C8	2006	D2	2040	G2	2062	E5	2084	C6	3007	E4	3040	G3	3052	F2	3067	E5	3087	B6	4054	B6	9003	C5	9023	D6	9606	E6	9617	G6
1631	D11	2007	D2	2041	G2	2063	D6	2085	B6	3008	C5	3041	G1	3053	F1	3070	C5	3081	C7	3631	F4	4055	C7	9004	C5	9024	B2	9618	G7
1632	F3	2008	D2	2042	G3	2064	D5	2086	D5	3009	D4	3042	E2	3071	D4	3082	F5	7000	D3	9005	E4	9025	D6	9062	E8	9619	G7		
1653	D10	2009	C3	2043	H3	2065	E7	2512	F4	3010	C3	3043	F3	3055	E1	3072	B6	3633	D7	7040	F2	9006	D5	9026	F8	9603	E2		
1650	G8	2010	C3	2044	C2	2066	G5	2513	E5	3011	C4	3044	G2	3052	G2	3073	C5	3634	D6	7044	E8	9020	G2	9059	F8	9618	G3		
1651	E10	2011	E3	2045	C2	2070	D5	2612	D7	3012	E4	3045	F4	3074	B7	3635	D5	7042	F2	9008	C8	9035	G6	9613	G4				

SERVO PANEL SOLDER SIDE

1002	D6	2005	E7	2041	G8	2065	E3	2612	D3	3017	D9	3049	F7	3066	D3	3631	F6	7040	F8	9008	C8	9035	G6	9613	G4		
1011	F3	2006	D7	2042	G6	2066	G5	3000	E8	3018	C8	3050	G8	3067	E4	3632	F5	7041	F8	9010	C9	9038	G6	9615	F4		
1050	B9	2007	D7	2043	H6	2070	D5	3001	D7	3019	C8	3051	F8	3070	C5	3633	D3	7042	F7	9013	C6	9040	E7	9616	G5		
1061	B1	2008	D7	2044	C7	2071	B4	3002	D7	3031	F6	3052	F8	3071	D5	3634	D4	7043	F7	9019	G2	9042	F7	9617	G4		
1504	C3	2009	C7	2045	C7	2072	B3	3003	D8	3039	G6	3053	F8	3072	B3	3635	D4	7044	E8	9020	G2	9059	F8	9618	G3		
1505	C4	2010	C6	2046	C8	2080	B3	3004	D8	3040	G6	3054	E8	3073	C4	3637	D3	7060	F4	9021	G2	9060	E3	9619	G3		
1630	C1	2011	E6	2047	F8	2081	C2	3005	D8	3041	G8	3055	E8	3074	B3	3638	D2	7080	B2	9022	D4	9061	E3	9620	F5		
1632	F7	2014	C5	2048	F8	2082	C4	3007	E6	3042	G8	3056	G8	3075	B3	3639	F6	7502	E5	9023	D4	9092	E2	9621	G5		
1650	G1	2015	G5	2049	C8	2083	C2	3008	C5	3043	F7	3060	E5	3080	D5	4022	F5	7503	G6	9024	B8	9063	E8	9622	F2		
2000	D1	2016	E6	2060	F5	2084	C3	3009	D6	3044	G8	3061	F5	3081	C3	4024	F6	9003	C5	9025	D4	9064	E2	9623	G8		
2001	D8	2018	E8	2061	B2	2085	B4	3010	C6	3045	F6	3062	F5	3082	C5	4053	B9	9004	C5	9026	F2	9065	G8	9624	F8		
2003	D7	2019	D8	2063	D3	2512	F6	3011	C6	3046	G6	3064	E8	3084	C3	4054	B3	9005	E5	9028	E7	9066	C4	9055	C2	9090	D5
2004	E7	2040	G8	2064	D5	2513	E4	3014	G6	3048	D9	3065	C2	3087	B4	7000	D6	9007	C6	9032	D2	9612	G5	9625	F5		

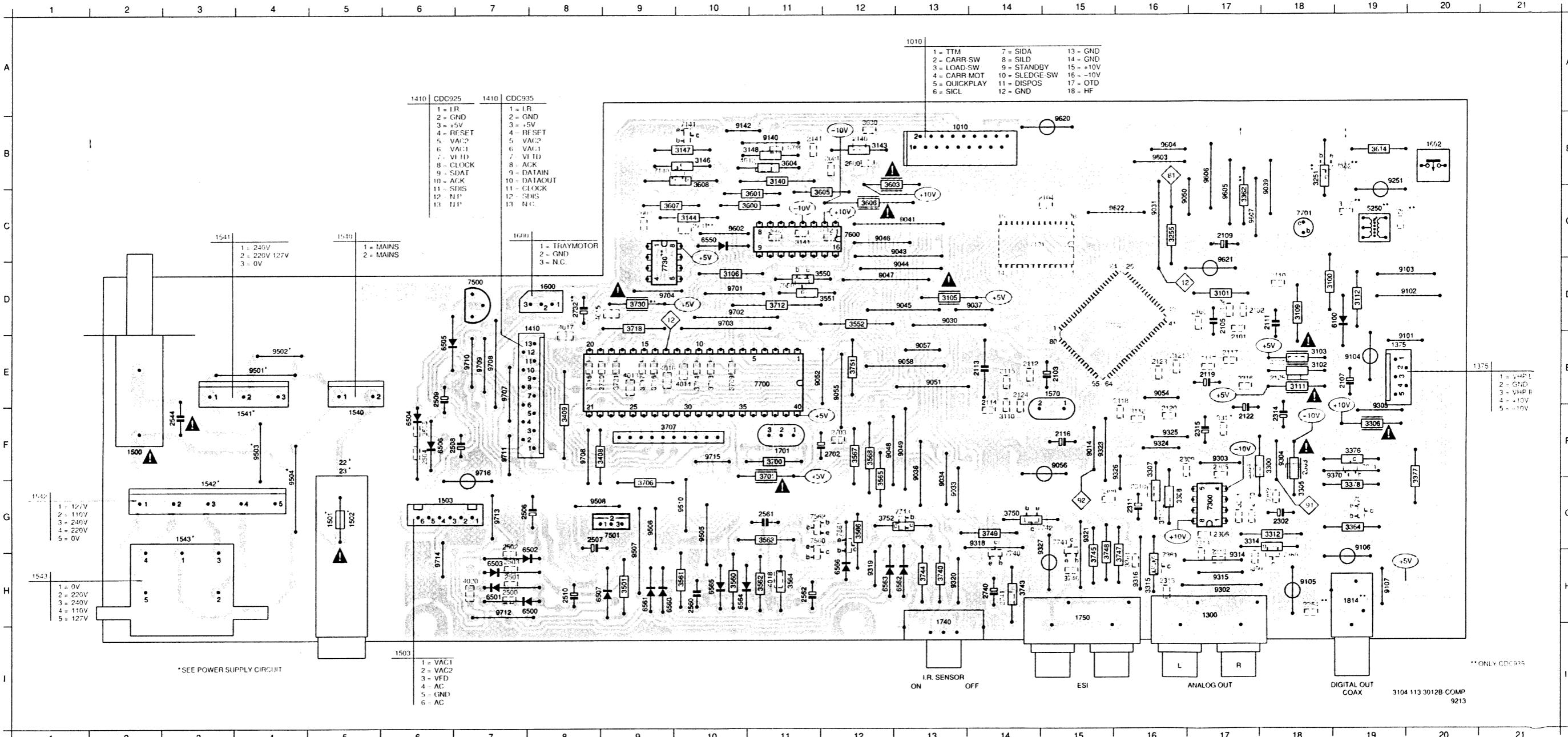


DECODER CIRCUIT DIAGRAM MICROPROCESSOR PART



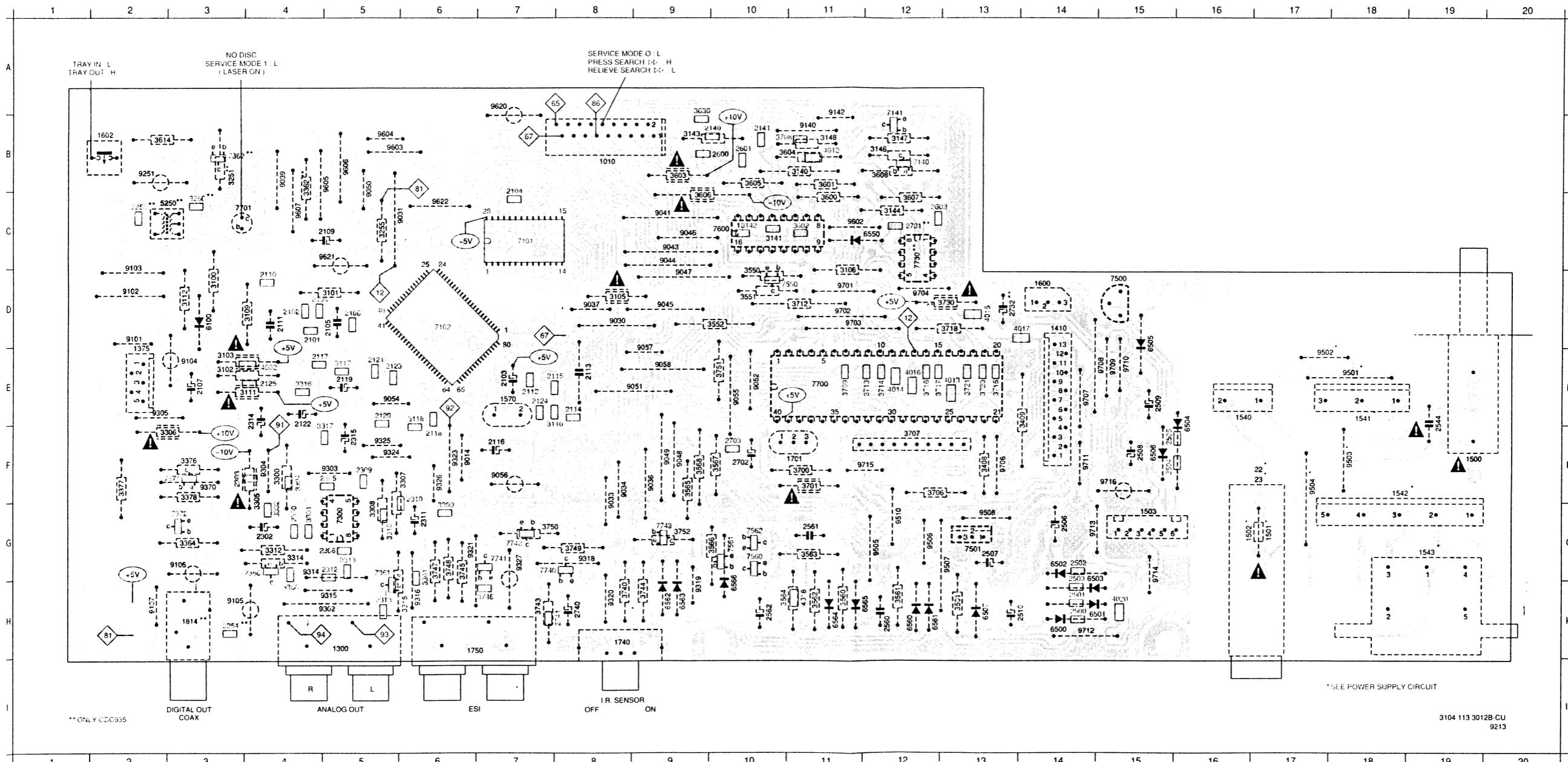
DECODER PANEL COMPONENT SIDE

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23	F5	1542	G3	2103	E15	2114	F14	2125	E18	2310	G16	2505	F6	2601	B12	3103	E18	3142	C11	3302	G18	3315	H16	3409	F8	3566	G12	3608	B12	3714	E10	3745	H15	4014	E10	6503	H7	6565	H10	7372	G19	7740	H14	9039	C18	9052	E11	9106	H19	9316	H16	9501	E4	9604	B16	9706	F8		
1010	B13	1543	G3	2104	C14	2115	F14	2140	B12	2311	G16	2506	G7	2602	C9	3105	D13	3143	B12	3304	G17	3316	E17	3501	H8	3567	F12	3614	B19	3715	E8	3746	H15	4015	D8	6504	F6	6566	H12	7500	D7	7741	G15	9041	C13	9054	E16	9107	H19	9318	G14	9502	E4	9605	C17	9707	E7		
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1410	D7	1602	B20	2107	E19	2118	E15	2254	H18	2314	F18	2509	F6	2731	C10	3110	F14	3147	B9	3307	F16	3361	H16	3552	D12	3601	C10	3701	F11	3718	D9	3749	G14	4018	H11	6507	H9	7140	B9	7560	G11	9014	F15	9045	D13	9057	E13	9251	B19	9321	G15	9505	G10	9620	B15	9710	E7		
1500	F2	1701	F11	2108	D17	2119	E17	2300	G17	2315	F17	2510	H8	2732	D8	3111	E18	3148	B10	3308	G16	3362	C17	3560	H10	3602	C11	3706	G9	3720	E9	3750	G14	4020	H7	6550	C10	7141	B10	7561	G12	9030	C13	9046	C12	9058	E13	9302	H17	9323	F15	9506	G9	9621	D17	9711	F7		
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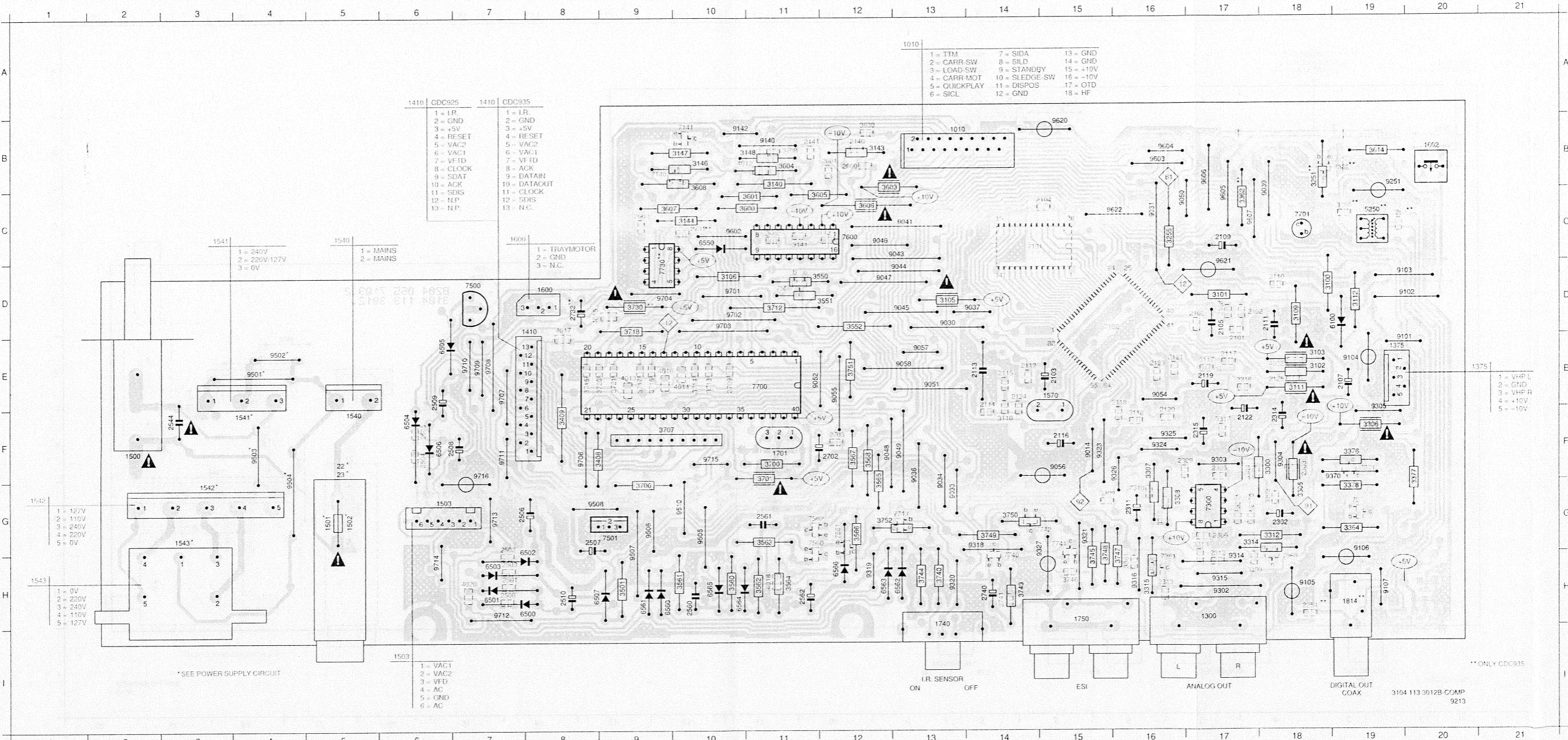
DECODER PANEL SOLDER SIDE

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23	F17	1543	G19	2105	D5	2117	E4	2254	H3	2315	F5	2544	F19	2741	H8	3118	E6	3300	-F4	3314	G4	3409	F14	3567	F10	3630	A9	3717	E13	3749	G8	4020	H15	6560	H12	7360	G4	7700	E11	9036	F9	9051	E8	9106	G3	9318	G8	9503	F18	9607	C4	9710	E15
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1500	F19	1740	H8	2110	D4	2122	F4	2306	G4	2504	F15	2601	B10	3105	D8	3144	C12	3306	F2	3361	H6	3560	H11	3603	B9	3708	B10	3740	H8	4012	B11	6502	G14	6565	H12	7500	D15	7742	G7	9044	C9	9057	E9	9302	H4	9324	F5	9508	C13	9702	D11	9715	F11
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1562	G17	1814	H3	2121	E7	2124	F7	2310	F6	2506	G14	2702	F10	3109	D4	3147	B12	3308	G5	3364	G3	3562	H11	3605	B10	3712	D11	3744	H9	4014	E12	6504	F16	7101	C7	7550	D10	9014	F6	9046	C9	9101	D2	9304	F4	9326	F6	9602	C11	9704	D12		
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1541	E18	2103	E7	2115	E7	2141	B10	2313	H5	2509	E15	2713	D3	3112	D3	3251	G5	3312	G4	3378	F3	3565	F12	3608	B12	3715	E13	3747	G6	4017	I3	6501	H13	7141	B12	7562	G10	9033	H6	9049	F9	9104	E3	9315	H4	9501	E18	9605	C5	9708	E15		



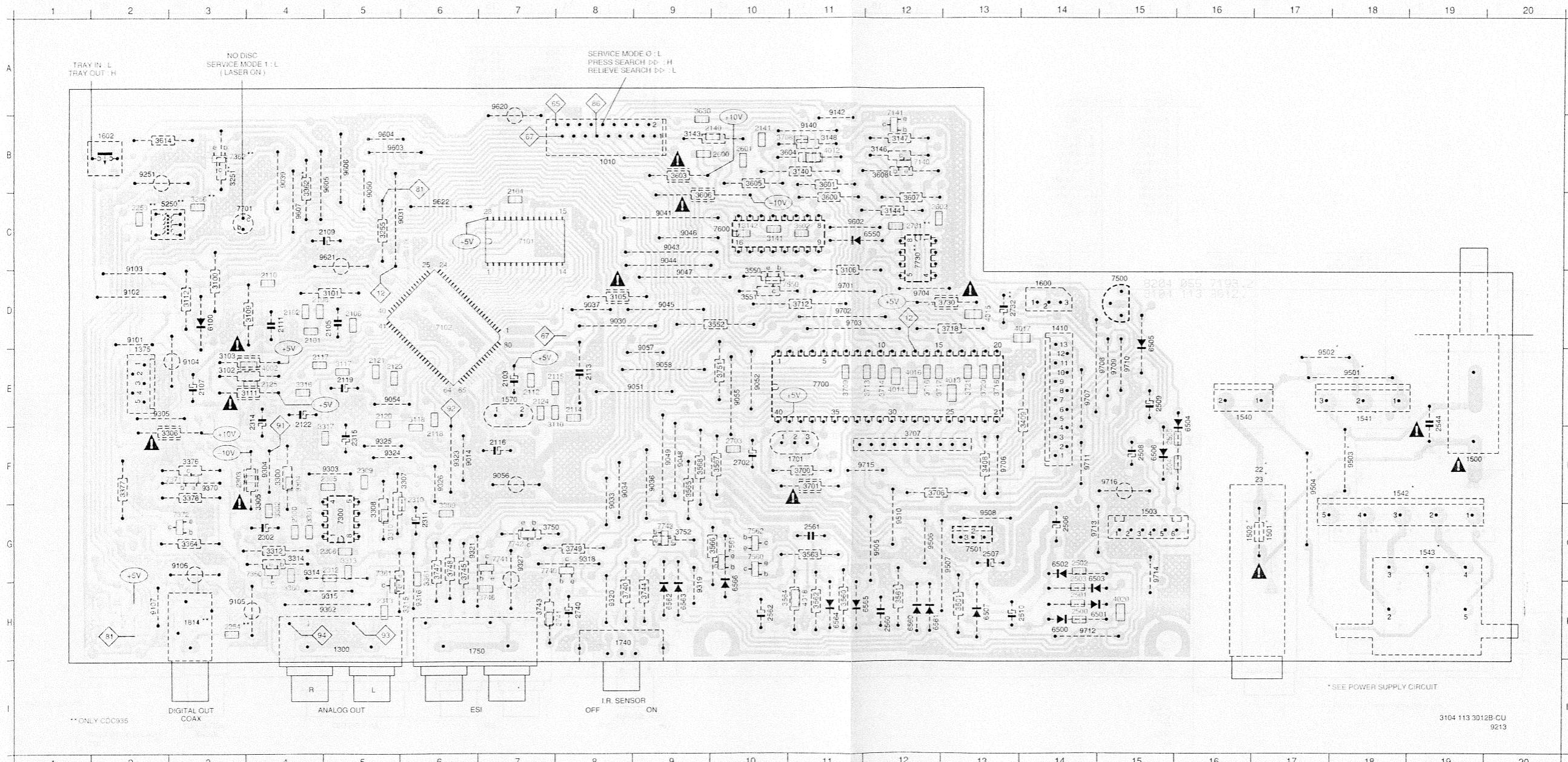
DECODER PANEL COMPONENT SIDE

22	F5	1541	F4	2102	D17	2113	E14	2124	E14	2309	F16	2504	F6	2600	B12	3102	E18	3141	C11	3301	G17	3314	G17	3408	F9	3565	G12	3607	C9	3713	E10	3744	H13	4013	E9	6502	H7	6564	H10	7371	F19	7730	D9	9037	D13	9051	E13	9105	H18	9135	H17	9370	G18	9603	B16	9704	D9	9716	F7
23	F5	1542	G3	2103	E15	2114	F14	2125	E18	2310	G16	2505	F6	2601	B12	3103	E18	3142	C11	3302	G18	3315	H16	3409	F8	3566	G12	3608	B10	3714	E10	3745	H15	4014	E10	6503	H7	6565	H10	7372	G19	7740	H14	9039	C18	9502	E11	9105	H19	9136	H16	9501	E4	9504	B15	9706	F8		
1010	B13	1543	G3	2104	C14	2115	E14	2140	B12	2311	G16	2506	G7	2602	C9	3105	D13	3143	B12	3304	G17	3316	E17	3501	H9	3567	F12	3614	B19	3715	E8	3746	H15	4015	D8	6504	F6	6566	H12	7500	D7	7741	G15	9041	C13	9504	E16	9107	H19	9318	G14	9502	E4	9605	C17	9707	E7		
1309	H17	1570	E15	2105	E17	2116	F15	2141	B11	2312	H17	2507	G8	2702	F12	3106	D10	3144	C10	3305	G18	3317	F17	3550	D11	3568	F12	3716	E9	3747	H16	4016	E9	6505	E6	7101	C14	7501	G9	7742	G14	9043	C12	9505	E12	9140	B11	9319	H12	9503	F4	9606	B17	9708	E7				
1375	E19	1600	D8	2106	D17	2117	E17	2253	C19	2313	H16	2508	F7	2703	F12	3109	D14	3146	B10	3306	F19	3360	D11	3708	F11	3717	E9	3748	H15	4017	D8	6506	F6	7102	D15	7550	D11	7743	G13	9044	C12	9506	F5	7142	B10	9230	H13	9504	G4	9607	C17	9709	E7						
1410	D7	1602	B20	2107	E19	2118	E15	2254	H18	2314	F18	2509	F6	2731	C10	3110	F14	3147	B9	3307	F16	3361	H16	3552	D12	3601	C10	3701	F11	3718	D9	3749	G14	4018	H11	6507	H9	7140	B9	7560	G11	9014	F15	9045	D13	9057	E13	9251	B19	9321	G15	9505	G10	9620	B15	9710	E7		
1500	F2	1701	F11	2108	D17	2119	G17	2300	G17	2315	H16	2510	H8	2732	D8	3111	E18	3148	B10	3308	G16	3362	C17	3560	H10	3602	C11	3706	G9	3720	F14	4020	H7	6550	C10	7141	B10	7561	G12	9038	D13	9046	C12	9058	E13	9302	H17	9323	F15	9506	G9	9621	D17	9711	F7				
1501	G5	1740	I13	2109	C17	2120	F16	2302	G18	2500	H7	2544	F3	2740	H14	3112	D19	3251	B18	3305	G15	3364	G19	3561	H10	3603	B12	3707	F9	3721	E9	3751	E12	5250	C19	6560	H7	7300	G17	7562	G11	9041	C13	9047	D12	9101	E19	9303	F17	9324	F16	9507	H9	9622	C15	9712	H7		
1502	G5	1750	H15	2110	D18	2121	E16	2303	F18	2501	H7	2560	H10	2741	H14	3117	E17	3255	C16	3310	G16	3376	F19	3562	H11	3604	B11	3708	B11	3730	D9	3752	G12	6100	D19	6561	H9	7360	H18	7600	C12	9033	G13	9048	F12	9102	D19	9304	E18	9325	F16	9508	G8	9701	D10	9713	G7		
1503	G6	1814	H19	2111	D18	2122	F17	2305	F17	2502	H7	2561	G11	3100	D18	3116	F16	3256	C19	3312	G18	3377	G20	3563	G11	3605	C11	3709	E10	3740	H13	4002	E18	6500	H7	6562	H12	7361	H16	7700	E11	9043	G13	9049	F13	9103	D19	9305	F19	9326	G16	9510	G10	9702	D10	9714	H6		
1540	F5	2101	E17	2112	E14	2123	E16	2306	G17	2503	H7	2562	H11	3101	D17	3140	B11	3300	F18	3313	G17	3378	G19	3564	H11	3606	C12	3712	D11	3743	H14	4012	B10	6501	H7	6563	H12	7362	B19	7701	C18	9036	G13	9050	C16	9104	E19	9314	H17	9327	H15	9502	C10	9703	D10	9715	F10		



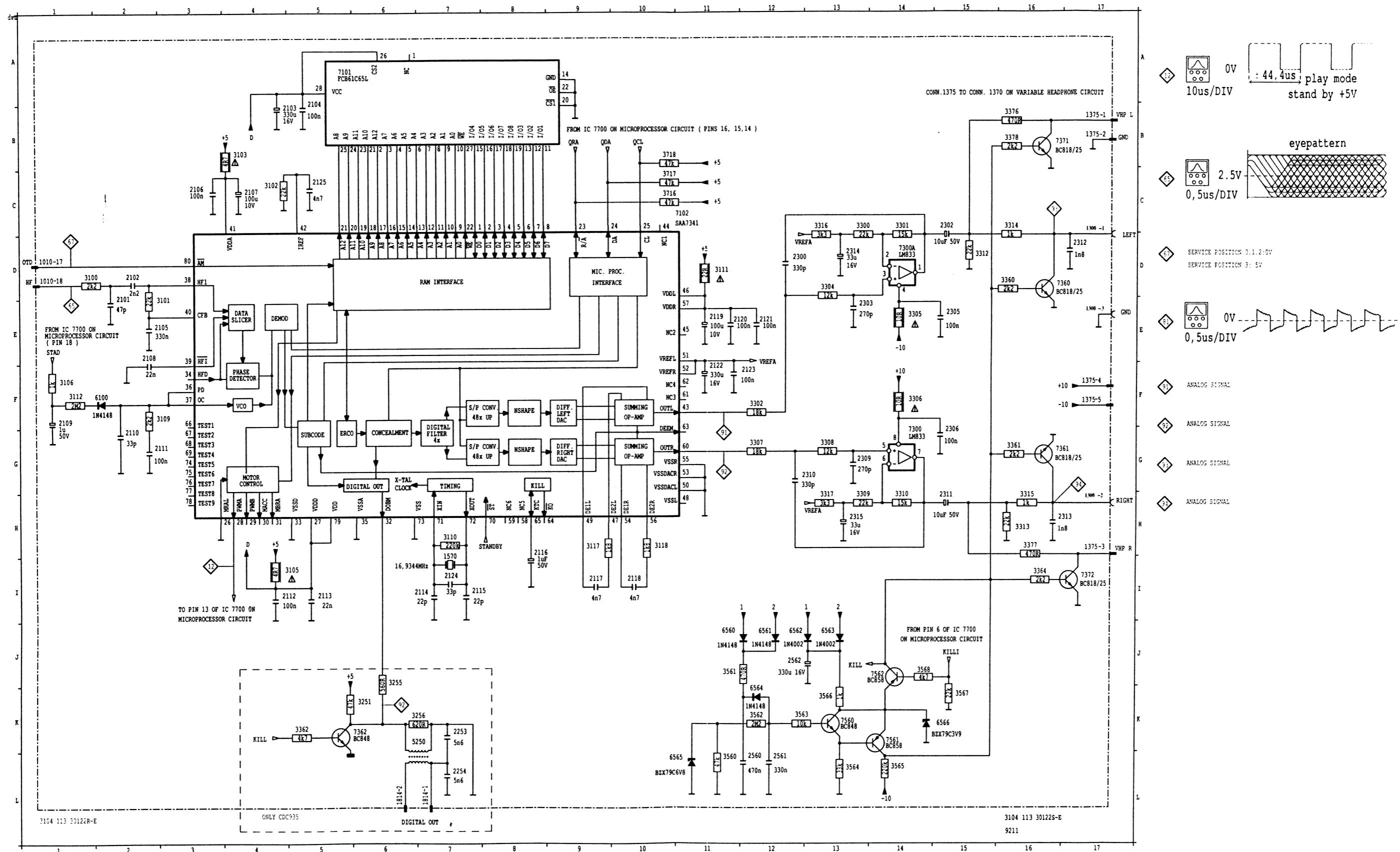
DECODER PANEL SOLDER SIDE

22 F17 1542 F18 2104 C7 2116 F7 2253 C2 2314 F4 2510 H14 2740 H8 3117 E5 3256 C3 3313 G5 3408 F13 3566 G10 3614 B2 3716 E12 3748 G6 4018 H11 6550 C11 7300 G5 7600 C10 9034 F8 9050 C5 9105 H3 9316 H6 9502 E17 9606 B5 9709 E15
 23 F17 1543 G19 2105 D5 2117 E4 2254 H3 2315 F5 2504 F19 2741 H8 3118 E6 3200 F4 3314 G4 3409 F14 3567 F10 3630 A9 3717 E13 3749 G8 4020 H15 6560 H12 7360 G4 7700 E11 9036 F9 9051 E8 9106 G3 9318 G8 9503 F18 9607 C4 9710 E15
 1019 B8 1570 E7 2106 D5 2118 F6 2300 G4 2500 H14 2560 H12 3100 D3 3140 B11 3301 G4 3315 H6 3501 H13 3568 F9 3700 F11 3718 D13 3750 G7 5250 C2 6561 H12 7361 G5 7701 C3 9037 D8 9052 E10 9107 H2 9319 H9 9504 F17 9620 A7 9711 F14
 1300 H5 1600 D14 2107 E3 2119 E5 2302 G4 2501 H14 2561 G11 3101 D4 3141 C10 3302 G4 3316 E4 3550 D10 3600 C11 3701 F11 3720 E13 3751 E10 6100 D3 6562 H9 7362 B3 7730 C12 9039 B4 9054 E5 9140 B11 9320 H8 9505 G12 9621 C4 9712 H14
 1375 E2 1602 B2 2108 D4 2120 C3 2303 F3 2502 G14 2562 H10 3102 E3 3142 C10 3304 F4 3317 F4 3551 D10 3601 B11 3706 F12 3721 E13 3752 G9 6500 H14 6563 H9 7371 F2 7740 G7 9041 C9 9055 E10 9142 B11 9321 G6 9506 G12 9622 C6 9713 G14
 1410 D14 1701 F10 2109 C4 2121 E5 2305 F4 2503 H14 2600 B10 3103 E3 3143 B9 3305 G4 3360 H4 3552 D9 3602 C11 3707 F12 3730 D12 4002 E4 6501 H14 6568 H11 7372 G3 7741 G7 9043 C9 9056 F7 9251 B2 9323 F6 9507 G13 9701 D11 9714 H15
 1500 F19 1740 H8 2110 D4 2122 F4 2306 G4 2504 F15 2601 B10 3105 D8 3144 C12 3306 F2 3361 H6 3560 H11 3602 B9 3703 B10 3740 H8 4012 B11 6502 G14 6565 H12 7500 D15 7742 G7 9044 C9 9057 E9 9302 H4 9324 F5 9508 G13 9702 D11 9715 F11
 1501 G17 1750 H6 2111 D4 2123 E5 2309 F5 2505 F15 2602 C12 3106 D11 3146 B12 3307 F6 3362 C4 3561 H12 3604 B10 3709 E11 3743 H7 4013 E13 6503 H14 6566 H10 7501 G13 7743 G9 9045 D9 9058 E9 9303 F4 9325 F5 9510 G12 9703 D11 9716 F15
 1502 G17 1814 H3 2112 E7 2124 E7 2310 F6 2506 G14 2702 F10 3109 D4 3147 B12 3308 G5 3364 G3 3562 H11 3605 B10 3712 D11 3744 H9 4014 E12 6504 F16 7101 C7 7550 D10 9014 F6 9046 C9 9101 D2 9304 F4 9326 F6 9602 C11 9704 D12
 1503 G15 2101 D4 2113 E8 2125 E4 2311 G13 2703 F10 3110 F7 3148 B11 3309 G6 3376 F3 3563 G11 3606 C9 3713 E12 6505 F15 7102 D6 7560 G10 9030 D8 9047 D9 9102 D2 9305 E2 9603 B5 9706 F13
 1540 E16 2102 D4 2114 E8 2140 B9 2312 G5 2508 F15 2731 C12 3111 E3 3251 B3 3310 G5 3377 F2 3564 H10 3607 C12 3714 E12 3746 H7 4016 E12 6506 F15 7140 B12 7561 G10 9031 C6 9048 F9 9103 D2 9314 G4 9604 B5 9707 E14
 1541 E18 2103 E7 2115 E7 2141 B10 2313 H5 2509 E15 2732 D13 3112 D3 3255 C5 3312 G4 3378 F3 3565 F9 3608 B12 3715 E13 3747 D6 4017 D13 6507 H13 7141 B12 7562 G10 9033 G8 9049 F9 9104 E3 9315 H4 9501 E18 9605 C5 9708 E15

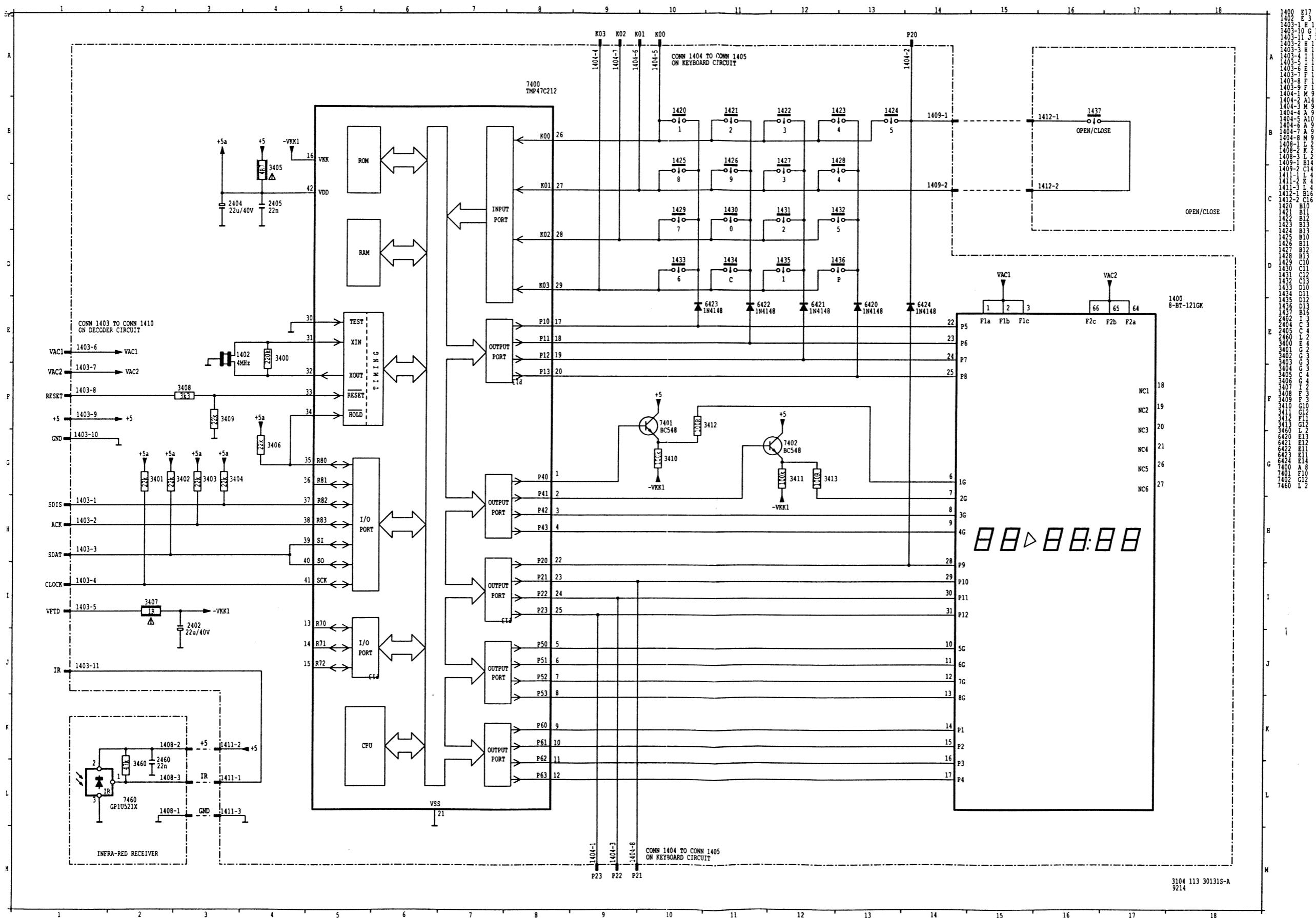


DECODER CIRCUIT DIAGRAM
DECODER PART

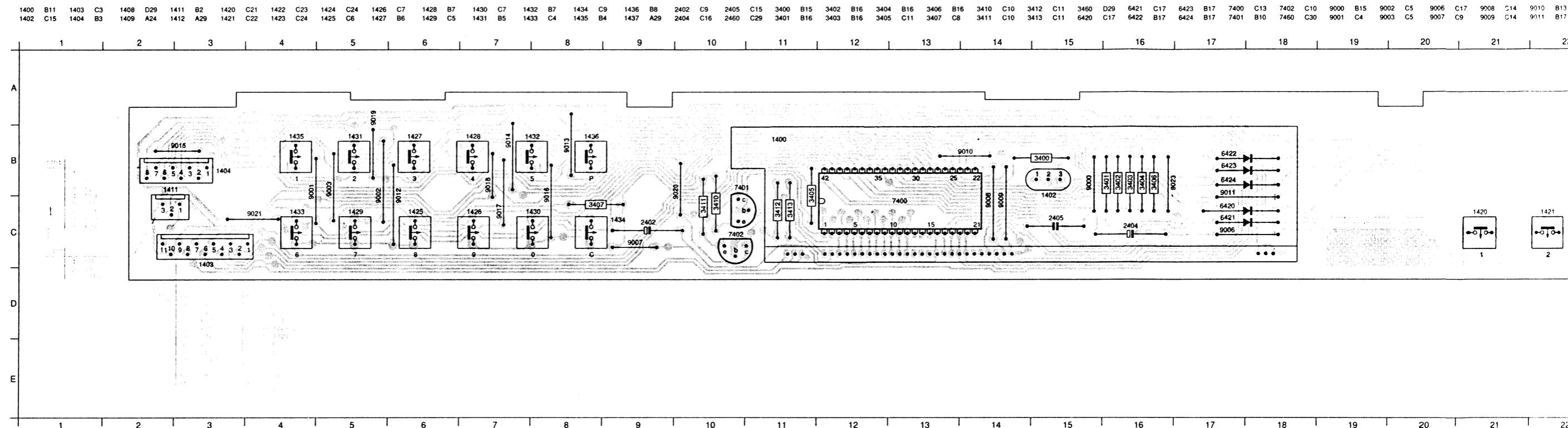
1010 D 1	1375 H17	1570 I 7	2103 B 4	2108 E 2	2113 I 5	2118 I10	2123 F12	2300 D12	2309 G13	2314 D13	3100 D 1	3106 F 1	3117 H 9	3300 C13	3306 F14	3312 H15	3317 H13	3376 B16	3562 K12	5250 K 7	6563 J13	7102 C10	7362 K 5	7562 J14
1010 D17	1375 B17	1570 I 7	2103 B 4	2108 E 2	2113 I 5	2118 I10	2123 F12	2300 D12	2309 G13	2314 D13	3100 D 1	3106 F 1	3117 H 9	3300 C13	3306 F14	3312 H15	3317 H13	3376 B16	3562 K12	5250 K 7	6563 J13	7102 C10	7362 K 5	7562 J14
1300 C17	1375 B17	1570 I 7	2103 B 4	2108 E 2	2113 I 5	2118 I10	2123 F12	2300 D12	2309 G13	2314 D13	3100 D 1	3106 F 1	3117 H 9	3300 C13	3306 F14	3312 H15	3317 H13	3376 B16	3562 K12	5250 K 7	6563 J13	7102 C10	7362 K 5	7562 J14
1300 E17	1375 B17	1570 I 7	2103 B 4	2108 E 2	2113 I 5	2118 I10	2123 F12	2300 D12	2309 G13	2314 D13	3100 D 1	3106 F 1	3117 H 9	3300 C13	3306 F14	3312 H15	3317 H13	3376 B16	3562 K12	5250 K 7	6563 J13	7102 C10	7362 K 5	7562 J14

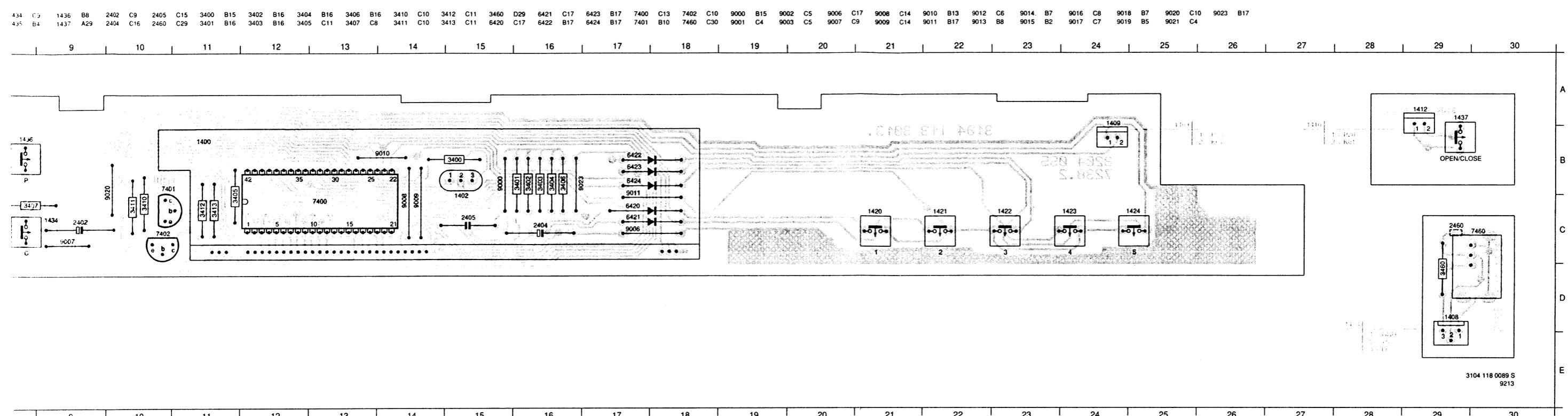


CONTROL & DISPLAY CIRCUIT DIAGRAM CDC925
I.R. CIRCUIT DIAGRAM

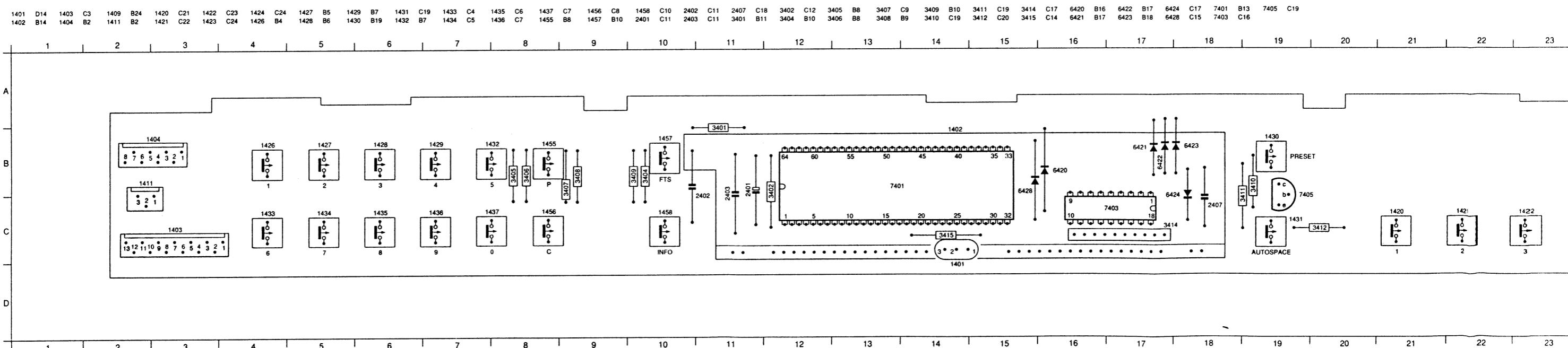
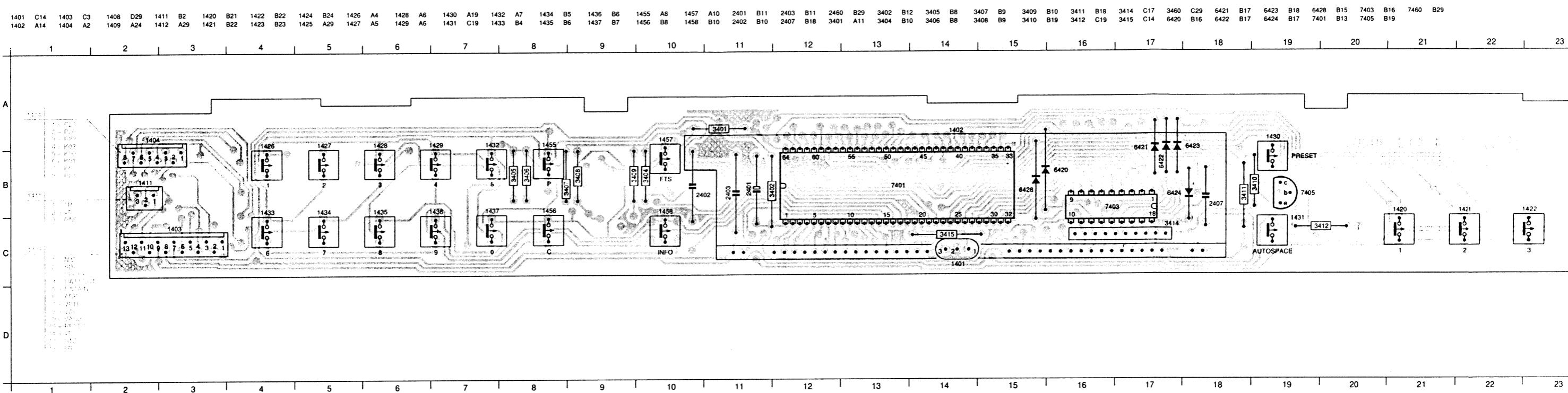


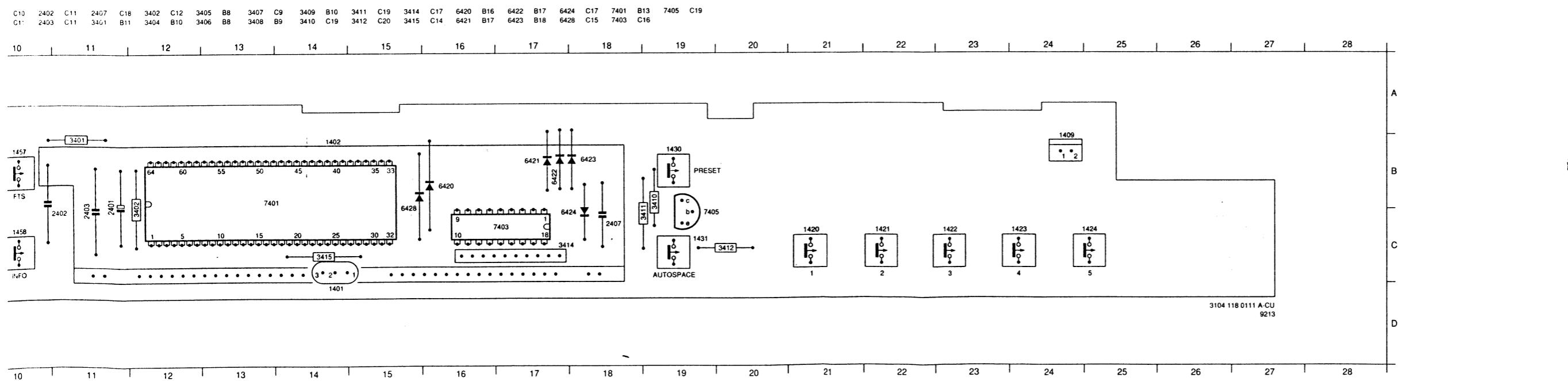
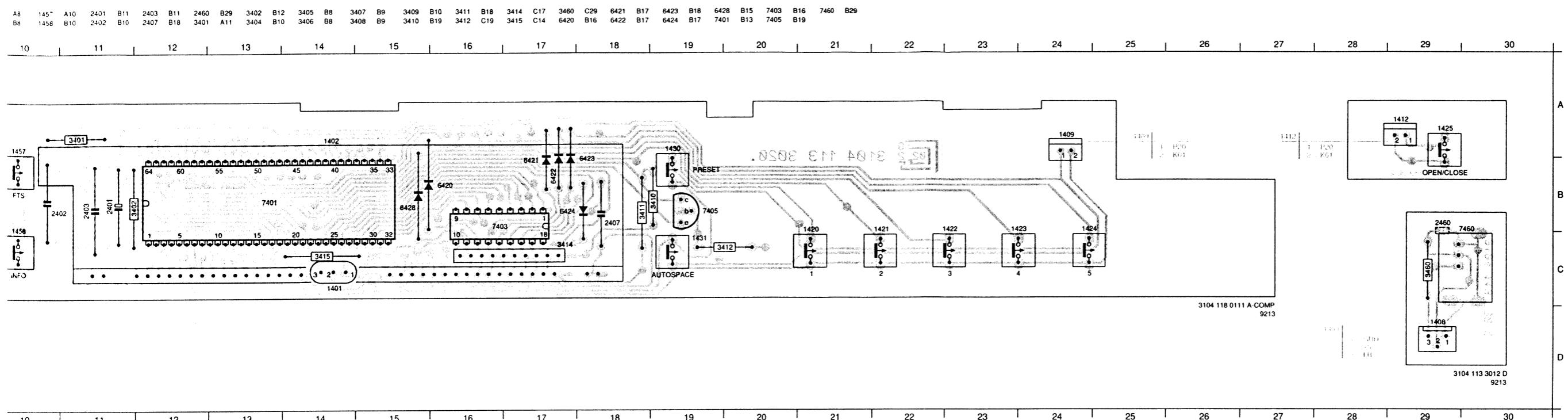
CONTROL & DISPLAY PANEL CDC925 OPEN/CLOSE - I.R. PANEL



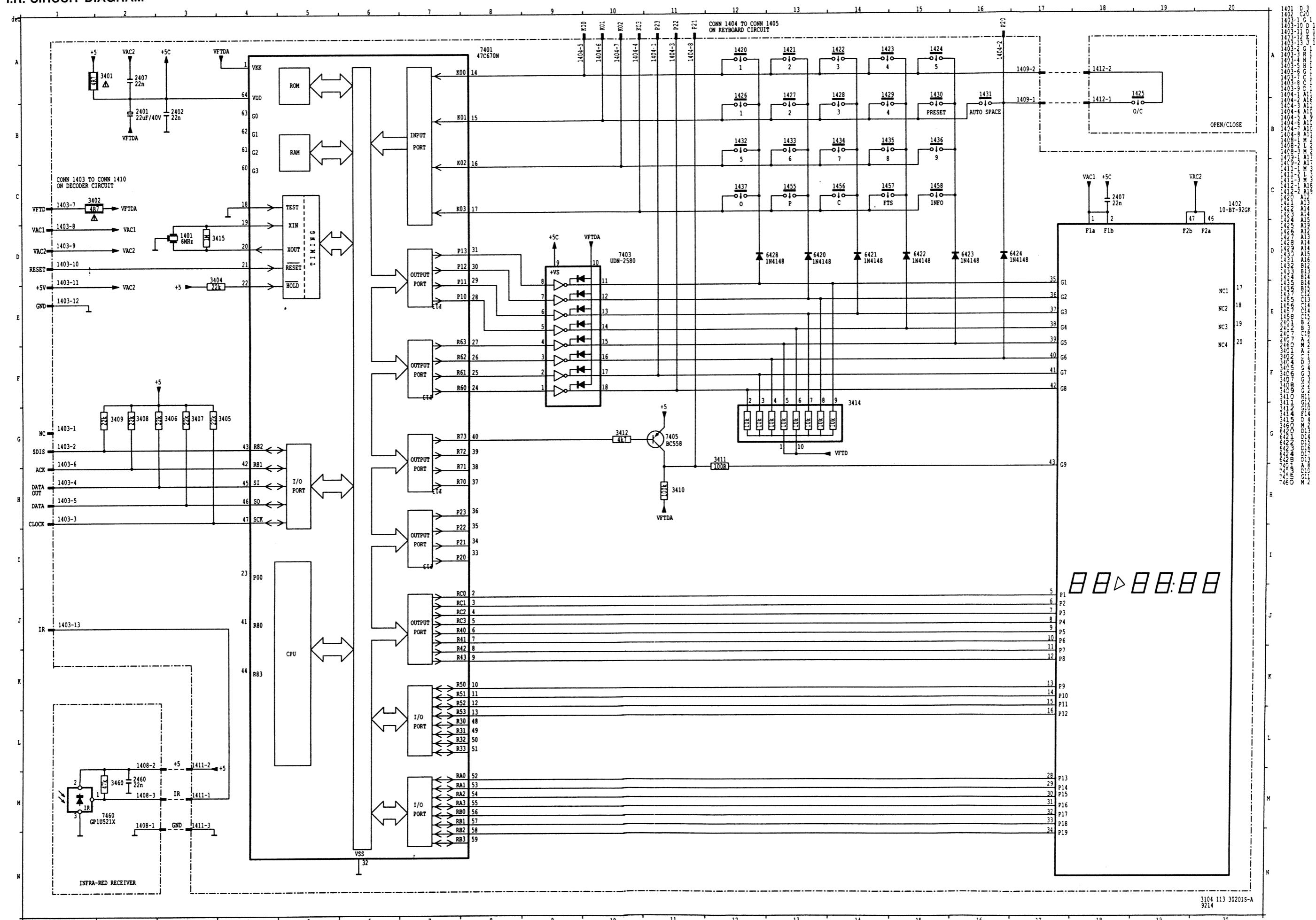


CONTROL & DISPLAY PANEL CDC935
OPEN/CLOSE PANEL - I.R. PANEL

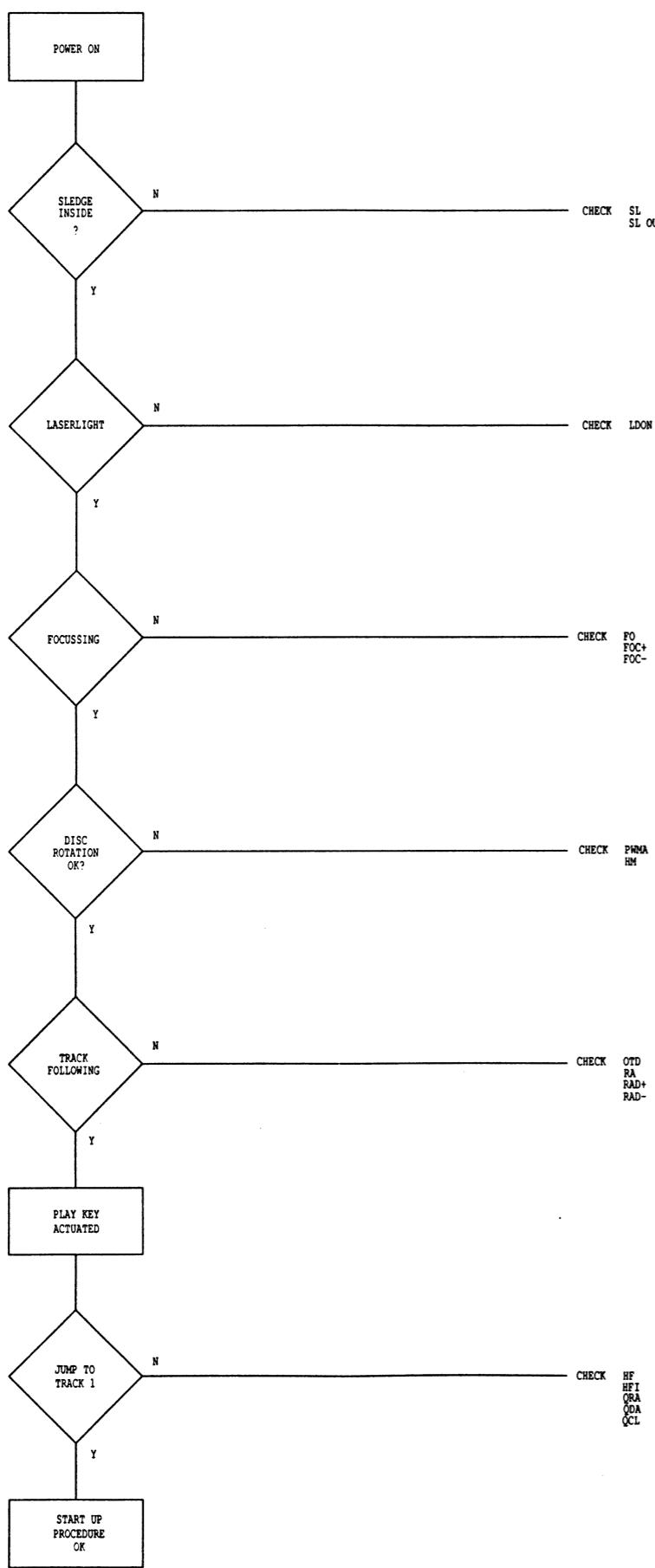




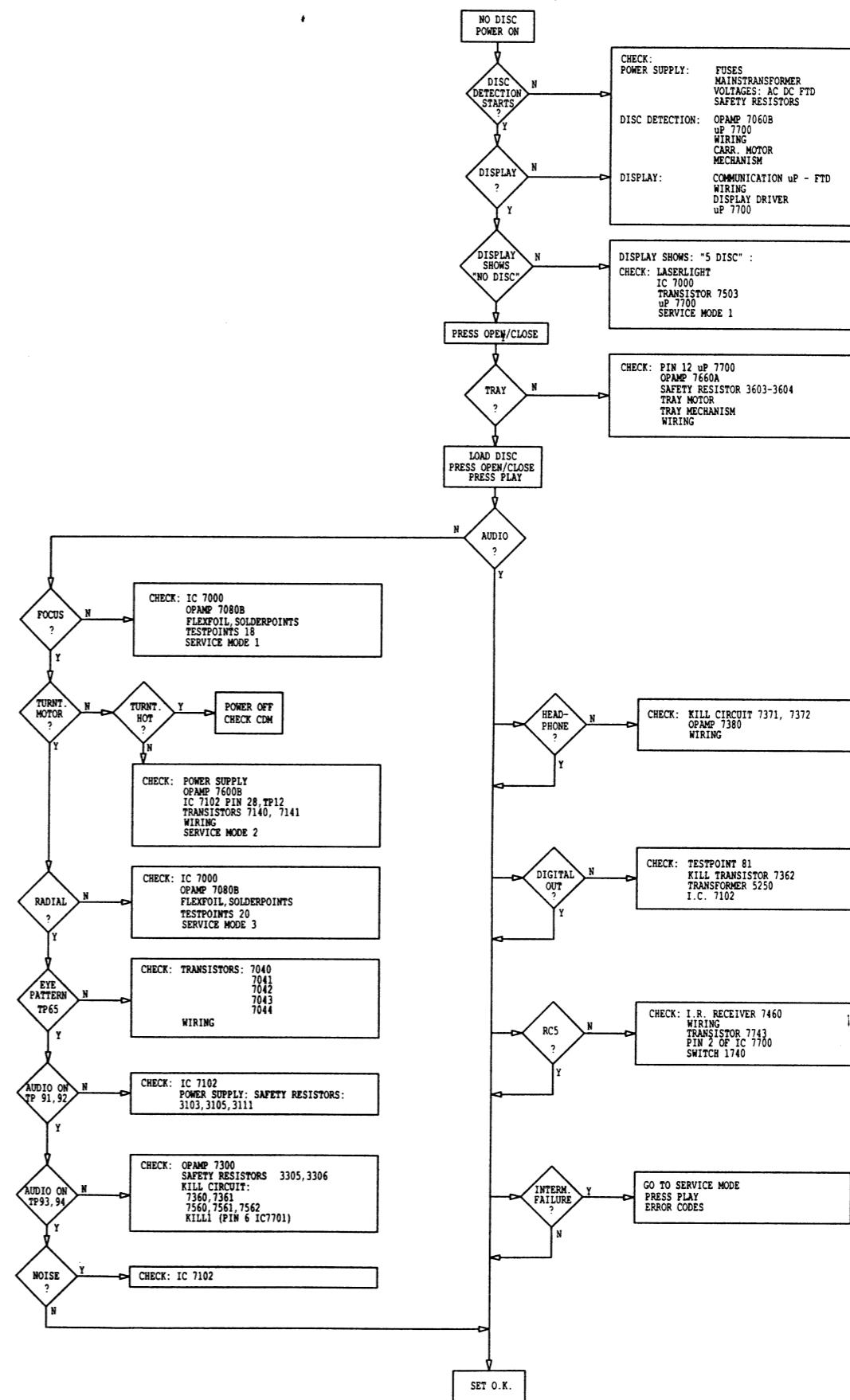
I.R. CIRCUIT DIAGRAM



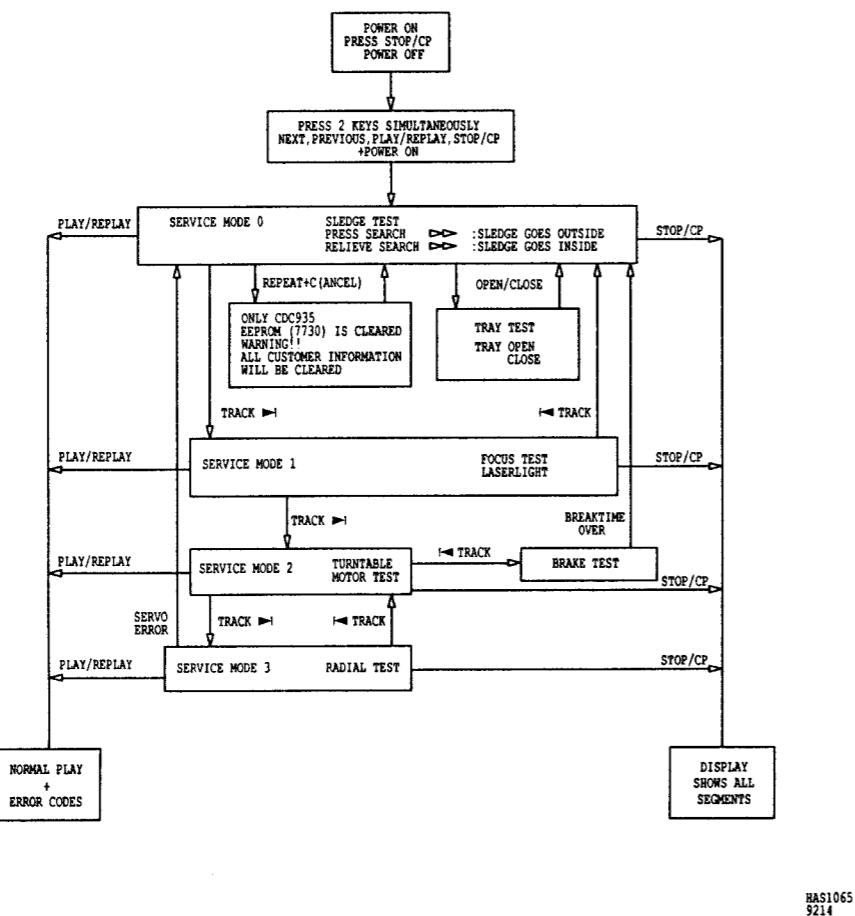
START UP PROCEDURE



FAULTFINDING GUIDE



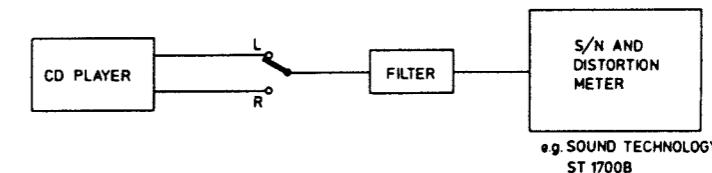
SERVICE TEST PROGRAM



SPECIFICATIONS MEASUREMENT

SIGNAL	AUDIO SIGNALS DISC 1	M.P.	REMARKS
ANALOG OUT LEFT 1300 - 1	TOTAL HARMONIC DISTORTION TRACKS 10 - 23	FILTER OUTPUT	SEE TECHNICAL DATA SEE DRAWING
ANALOG OUT RIGHT 1300 - 2			
ANALOG OUT LEFT 1300 - 1	SIGNAL-TO-NOISE RATIO TRACK 1 REFERENCE LEVEL	FILTER OUTPUT	SEE TECHNICAL DATA SEE DRAWING
ANALOG OUT RIGHT 1300 - 2	TRACK 49		

FILTER = 13th ORDER FILTER 4822 395 30204



30 459 A12

ERROR CODE TABLE

SYSTEM ERRORS CDC925 CDC935

Err 02	Focus error
Err 07	Subcode error
Err 08	TOC error
Err 09	Decoder error (SAA7341)
Err 10	Radial error
Err 11	Non fatal sledge error
Err 12	Fatal sledge error
Err 13	Turntable motor error
Err 30	Groove error
Err 31	Search time out error
Err 32	Binary search time out error
Err 33	Index not found
Err 34	Relative time not found
Err 35	Carrousel error

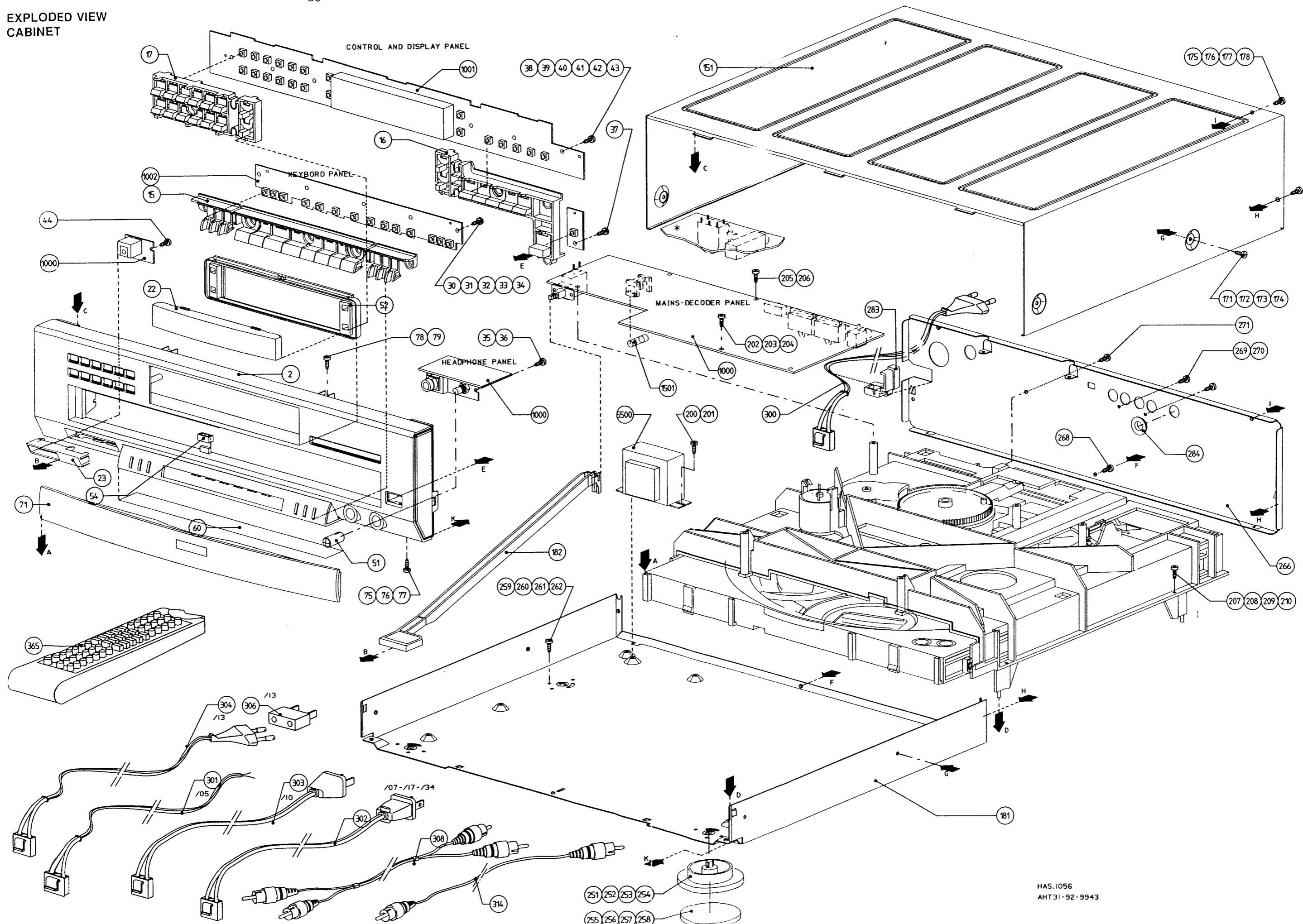
OPERATING ERROR CODES AND MESSAGES

CODES	MESSAGES
CDC925	CDC935
Err 40	" GO INTO STOP "
Err 41	" GO INTO PLAY "
Err 42	" NO PROGRAM "
Err 43	" PRESS REVIEW "
Err 44	" EDIT ACTIVE "
Err 45	" CD DUBBING ACTIVE "
Err 46	" PROGRAM CANCELLED "
Err 47	" USE 0-9 "
Err 48	" WRONG TRACK "
Err 49	" WRONG TIME "
Err 50	" NO EDIT POSSIBLE "
Err 51	" WRONG DISC "
Err 52	" INSERT DISC "
	" ERROR "
	" SCAN "
	" PROGRAM "
	" PROGRAM FULL "
	" NO DISC "
	" LOADED "
	" OPEN "
	" CLOSE "
	" PLAY "
	" EDIT "
	" DISC "
	" SPEC "
	" SHUFFLE LOGO IN DISPLAY "

SYSTEM ERRORS CDC935 ONLY

Err 36	Eeprom fail error
Err 37	I ² C communication error
Err 38	Eeprom address too high error
Err 39	No programmed track
Err 40	FTS eeprom is full

**EXPLODED VIEW
CABINET**



HAS.1056
AHT31-92-9943

MECHANICAL PARTSLIST

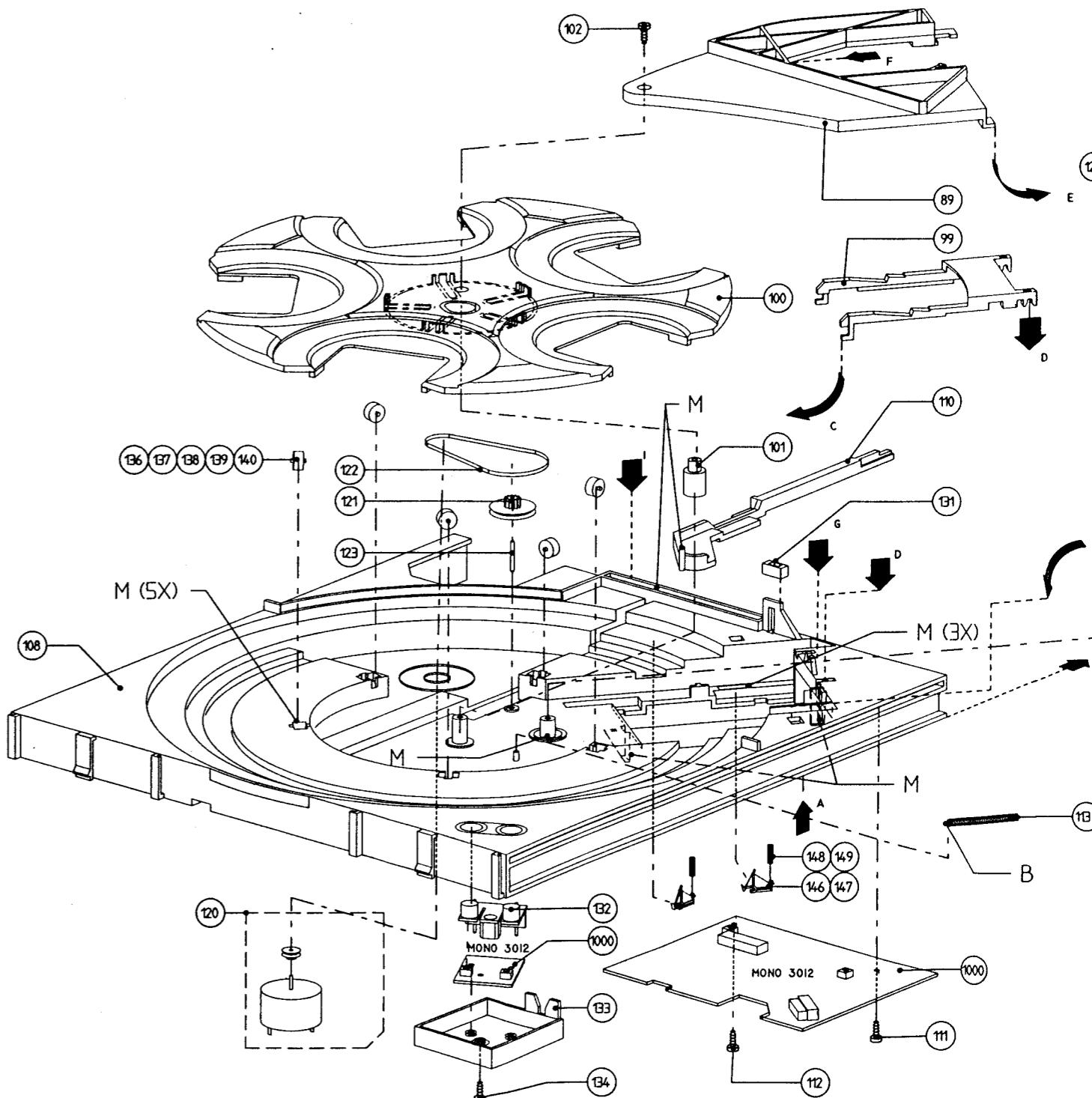
Partslist Cabinet			Partslist Loading		
2	4822 426 10043	FRONT CDC925	90	4822 256 91912	PRESSURE RING HOLDER
2	4822 426 10044	FRONT CDC935	91 + 92:	4822 532 52386	PRESSURE RING
15	4822 410 61954	KNOB UNIT CDC925	93 + 94:	4822 426 90109	FRAME
15	4822 410 61961	KNOB UNIT CDC935	95	4822 522 33255	GEARWHEEL
16	4822 410 61959	KNOB UNIT	96	4822 535 40105	CRANK
17	4822 410 61962	KNOB UNIT			
Remark on item. 16 and 17 for CDC925: For item 16: cut the left buttons (Presets and Autospace) For item 17: cut the right buttons (Info and FTS)			98	4822 691 30278	CDM12.1
			99	4822 403 70598	CDM LOCKING
			100	4822 466 93129	ROTARY DISC
			103	4822 401 11447	TRAY TUMBLER
			104	4822 466 93065	BLOCK
22 + 52:	4822 466 62222	WINDOW	108 + 110 + 121 + 123 + 146 + 148:	4822 444 50685	TRAY ASSY
23	4822 450 61831	WINDOW			
51	4822 410 61705	BUTTON	109	4822 532 51756	GROMMET
54	4822 466 93132	GUIDE	110	4822 401 11444	BRACKET
60	4822 444 60815	COVER PLATE	113	4822 492 52313	TENSION SPRING
71	4822 466 93133	TRAYFRONT CDC925	114	4822 256 91915	SUPPORT
71	4822 444 60839	TRAYFRONT CDC935	115	4822 466 93134	SLIDE STRIP
89	4822 466 93131	PRESSURE PLATE	116	4822 522 33256	CAM WHEEL
151	4822 444 60838	COVER	119	4822 528 50335	MOTOR
182	4822 403 70601	POWERROD	120	4822 528 50335	MOTOR
251	4822 462 41888	FOOT	121	4822 528 50334	PULLEY
255	4822 462 41887	FELT	122	4822 358 10115	DRIVING BELT
283	4822 532 60948	BUSHING	127	4822 466 93132	GUIDE
300 ▲	4822 321 10791	MAINSFLEX /00 /01	131	4822 466 93132	GUIDE
301 ▲	4822 321 10823	MAINSFLEX /05	132	4822 403 70599	KEY UNIT
302 ▲	4822 321 10849	MAINSFLEX /17	136	4822 528 70646	ROLLER
303 ▲	4822 321 10828	MAINSFLEX /10	144	4822 528 50334	PULLEY
308	4822 321 22832	SBC1072	145	4822 358 10115	DRIVING BELT
314	4822 321 61452	CONNECTION CABLE	148	4822 492 52123	COMPRESSION SPRING
365	4822 218 10461	RD6831/00	149	4822 492 52123	COMPRESSION SPRING
			150	4822 492 52123	COMPRESSION SPRING

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

101, 133, 146, 147, 181, 266

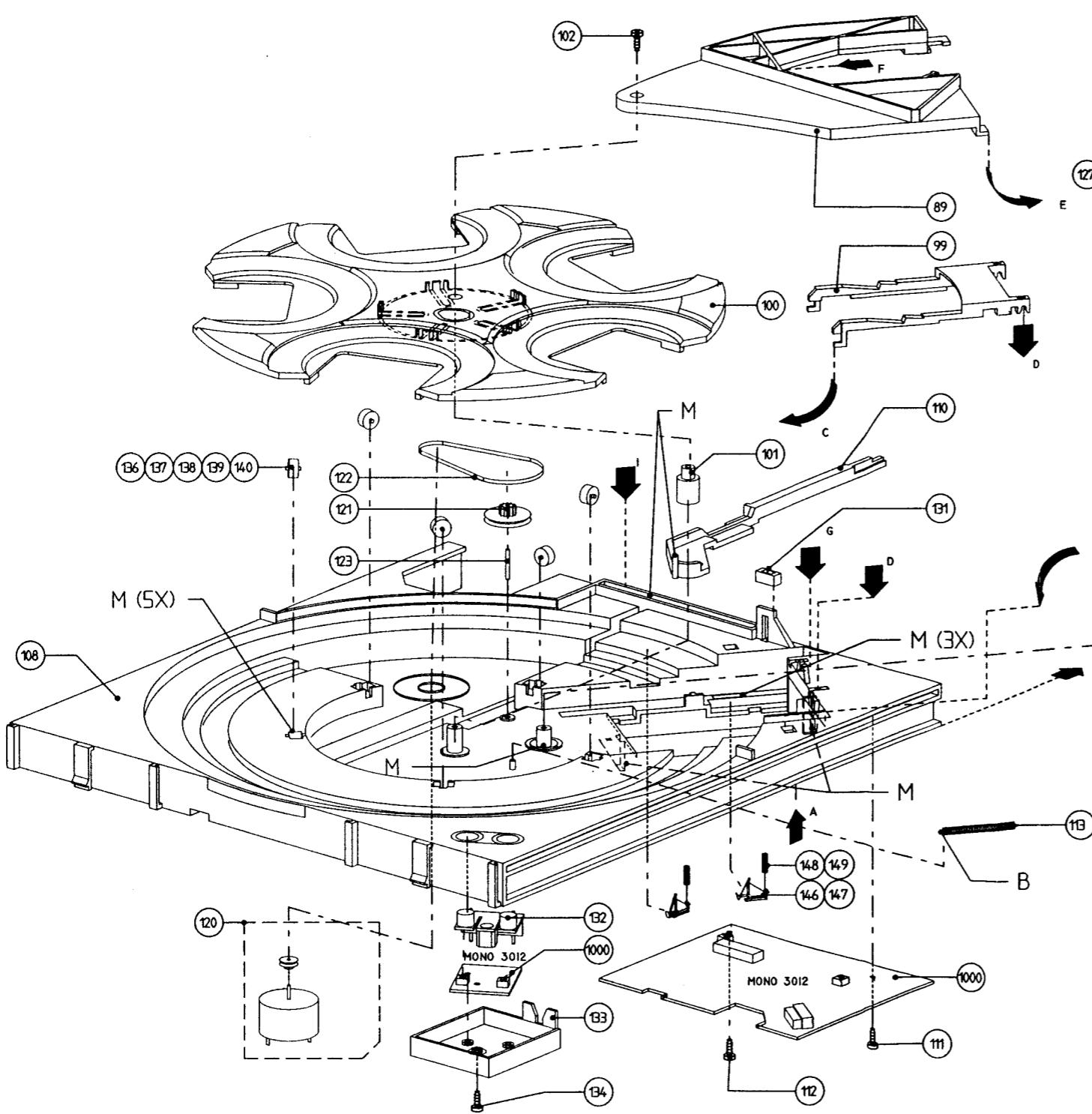
Screws

Taptite	M3x6	75, 76, 77, 205, 206
	M3x6 + washer	205, 206
	M3x28	207, 208, 209, 210
Plastite	M3x10	30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 78, 79, 111, 112, 202, 203, 204, 259, 260, 261, 262, 269, 270, 271
	M3x10 + washer	97, 117, 126, 171, 172, 173, 174, 175, 176, 177, 178, 268
	M3x16	102, 134

EXPLODED VIEW
LOADING

EXPLODED VIEW
LOADING

ISURE
 HOLDER
 ISURE
 IE
 RWHEEL
 JK
 I2.1
 LOCKING
 RY DISC
 TUMBLER
 K
 8:
 ASSY
 MET
 KET
 SPRING
 ORT
 E STRIP
 WHEEL
 DR
 DR
 EY
 NG BELT
 E
 E
 JNIT
 ER
 EY
 NG BELT
 PRESSION
 NG
 PRESSION
 NG
 PRESSION
 NG



SERVO - DECODER / HEADPHONE PANEL		
2040	5322 122 31842	330pF 5% 50V
2041	4822 126 10326	180pF 5% 50V
2042	4822 122 33496	100nF 10% 63V
2043	4822 124 41596	22μF 20% 50V
2044	5322 122 32452	47pF 5% 63V
2045	5322 122 32531	100pF 5% 50V
2046	5322 122 32965	18pF 5% 50V
2047	4822 126 10326	180pF 5% 50V
2048	5322 124 21643	22μF 20% 40V
2049	5322 122 32452	47pF 5% 63V
2060	4822 122 33496	100nF 10% 63V
2061	4822 122 33496	100nF 10% 63V
2062	4822 124 41596	22μF 20% 50V
2063	4822 124 41596	22μF 20% 50V
2064	4822 122 33342	33nF 10% 63V
2065	4822 122 33496	100nF 10% 63V
2066	4822 122 33175	2,2nF 20% 50V
2070	5322 126 10223	4,7nF 10% 63V
2071	4822 122 33496	100nF 10% 63V
2072	4822 126 10326	180pF 5% 50V
2080	4822 122 33496	100nF 10% 63V
2081	4822 124 41596	22μF 20% 50V
2082	4822 122 33496	100nF 10% 63V
2083	4822 124 41596	22μF 20% 50V
2084	4822 126 10326	180pF 5% 50V
2085	4822 122 33496	100nF 10% 63V
2086	5322 126 10465	3,9nF 10% 63V
2101	5322 122 32452	47pF 5% 63V
2102	4822 122 33175	2,2nF 20% 50V
2103	4822 124 40849	330μF 20% 16V
2104	4822 122 33496	100nF 10% 63V
2105	5322 121 42661	330nF 5% 63V
2106	4822 122 33496	100nF 10% 63V
2107	4822 124 41584	100μF 20% 10V
2108	4822 122 33809	22nF 20% 50V
2109	4822 124 40242	1μF 20% 63V
2110	5322 122 32659	33pF 5% 50V
2111	5322 121 42386	100nF 5% 63V
2112	4822 122 33496	100nF 10% 63V
2113	4822 122 10166	22nF 30% 16V
2114	5322 122 32658	22pF 5% 50V
2006	4822 122 32575	220pF 10% 500V
2007	4822 122 32575	220pF 10% 500V
2008	4822 122 32575	220pF 10% 500V
2009	4822 122 33496	100nF 10% 63V
2010	5322 124 21643	22μF 20% 40V
2011	4822 122 33496	100nF 10% 63V
2012	5322 124 21643	22μF 20% 40V
2014	5322 122 32654	22nF 10% 63V
2015	4822 124 41596	22μF 20% 50V
2016	4822 122 33496	100nF 10% 63V
2017	4822 126 10326	180pF 5% 50V
2018	4822 126 10326	180pF 5% 50V
2019	5322 122 31863	330pF 5% 50V

2253	4822 122 32646	5,6nF 10% 50V	3007 ▲	4822 052 10478	4Ω7	5% 0,33W	3110	4822	
2254	4822 122 32646	5,6nF 10% 50V	3008 ▲	4822 052 10478	4Ω7	5% 0,33W	3111 ▲	4822	
2300	5322 122 31863	330pF 5% 50V	3009	4822 051 20105	1M	5% 0,1W	3112	4822	
2302	4822 124 40435	10μF 20% 50V	3010	4822 050 21003	10k	1% 0,6W	3117	4822	
2303	4822 122 33216	270pF 5% 50V	3011	4822 051 20103	10k	5% 0,1W	3118	4822	
2305	4822 122 33496	100nF 10% 63V	3012	4822 050 21002	1k	1% 0,6W	3140	4822	
2306	4822 122 33496	100nF 10% 63V	3013	4822 050 21002	1k	1% 0,6W	3141	4822	
2309	4822 122 33216	270pF 5% 50V	3014	4822 050 28201	820Ω	5% 0,125W	3142	4822	
2310	5322 122 31863	330pF 5% 50V	3017	4822 050 21204	120k	1% 0,6W	3143 ▲	4822	
2311	4822 124 40435	10μF 20% 50V	3018	4822 050 21204	120k	1% 0,6W	3144	4822	
2312	4822 122 33219	1,8nF 10% 50V	3019	4822 050 25603	56k	1% 0,6W	3146	4822	
2313	4822 122 33219	1,8nF 10% 50V	3039	4822 051 10101	100Ω	5% 0,125W	3147	4822	
2314	4822 124 40272	33μF 20% 16V	3040	4822 051 10101	100Ω	2% 0,25W	3148	4822	
2315	4822 124 40272	33μF 20% 16V	3041	4822 051 20434	430k	5% 0,1W	3251	4822	
2380	4822 122 33809	22nF 20% 50V	3042	4822 051 20434	430k	5% 0,1W	3255	4822	
2381	4822 122 33128	15nF 10% 63V	3043	4822 051 10182	1k8	5% 0,125W	3256	4822	
2382	4822 122 33128	15nF 10% 63V	3044	4822 051 10182	1k8	2% 0,25W	3300	4822	
2500	4822 122 33809	22nF 20% 50V	3045	4822 051 10101	100Ω	2% 0,25W	3301	4822	
2501	4822 122 33809	22nF 20% 50V	3046	4822 051 20362	6k8	5% 0,1W	3302	4822	
2502	4822 122 33809	22nF 20% 50V	3047	4822 050 23903	39k	5% 0,125W	3304	4822	
2503	4822 122 33809	22nF 20% 50V	3048	4822 050 21002	1k	1% 0,6W	3305 ▲	4822	
2504	4822 122 33809	22nF 20% 50V	3049	4822 051 10101	100Ω	2% 0,25W	3306 ▲	4822	
2505	4822 122 33809	22nF 20% 50V	3050	4822 050 21002	1k	1% 0,6W	3307	4822	
2506	4822 124 23268	3300μF 20% 16V	3051	4822 050 24301	430Ω	5% 0,125W	3308	4822	
2507	4822 124 40272	33μF 20% 16V	3053	4822 051 20334	330k	5% 0,1W	3309	4822	
2508	5322 124 22094	220μF 20% 50V	3054	4822 051 20303	30k	5% 0,1W	3310	4822	
2509	4822 124 41596	22μF 20% 50V	3055	4822 050 21002	1k	5% 0,125W	3312	4822	
2510	4822 124 80148	2200μF 20% 16V	3060	4822 051 20103	10k	5% 0,1W	3313	4822	
2512	4822 124 40272	33μF 20% 16V	3061	4822 050 26802	6k8	1% 0,6W	3314	4822	
2513	4822 124 40272	33μF 20% 16V	3062	4822 051 20153	15k	5% 0,1W	3315	4822	
2544 ▲	4822 126 10454	3,3nF 20% 400V	3063	4822 050 21003	10k	1% 0,6W	3316	4822	
2560	4822 121 51252	470nF 5% 63V	3064	4822 116 52244	15k	5% 0,5W	3317	4822	
2561	5322 121 42661	330nF 5% 63V	3065 ▲	4822 052 10229	22Ω	5% 0,33W	3360	4822	
2562	4822 124 40849	330μF 20% 16V	3066 ▲	4822 052 10478	4Ω7	5% 0,33W	3361	4822	
2600	4822 122 33496	100nF 10% 63V	3067 ▲	4822 052 10478	4Ω7	5% 0,33W	3362	4822	
2601	4822 122 33496	100nF 10% 63V	3070	4822 116 52244	15k	5% 0,5W	3364	4822	
2602	4822 122 33496	100nF 10% 63V	3071	4822 051 20					

2253	4822 122 32646	5,6nF 10% 50V	3007 ▲ 4822 052 10478	4Ω7 5% 0,33W
2254	4822 122 32646	5,6nF 10% 50V	3008 ▲ 4822 052 10478	4Ω7 5% 0,33W
2300	5322 122 31863	330pF 5% 50V	3009 4822 051 20105	1M 5% 0,1W
2302	4822 124 40435	10µF 20% 50V	3010 4822 050 21003	10k 1% 0,6W
2303	4822 122 33216	270pF 5% 50V	3011 4822 051 20103	10k 5% 0,1W
2305	4822 122 33496	100nF 10% 63V	3012 4822 050 21002	1k 1% 0,6W
2306	4822 122 33496	100nF 10% 63V	3013 4822 050 21002	1k 1% 0,6W
2309	4822 122 33216	270pF 5% 50V	3014 4822 050 28201	820Ω 5% 0,125W
2310	5322 122 31863	330pF 5% 50V	3017 4822 050 21204	120k 1% 0,6W
2311	4822 124 40435	10µF 20% 50V	3018 4822 050 21204	120k 1% 0,6W
2312	4822 122 33219	1,8nF 10% 50V	3019 4822 050 25603	56k 1% 0,6W
2313	4822 122 33219	1,8nF 10% 50V	3039 4822 051 10101	100Ω 5% 0,125W
2314	4822 124 40272	33µF 20% 16V	3040 4822 051 10101	100Ω 2% 0,25W
2315	4822 124 40272	33µF 20% 16V	3041 4822 051 20434	430k 5% 0,1W
2380	4822 122 33809	22nF 20% 50V	3042 4822 051 20434	430k 5% 0,1W
2381	4822 122 33128	15nF 10% 63V	3043 4822 051 10182	1k8 5% 0,125W
2382	4822 122 33128	15nF 10% 63V	3044 4822 051 10182	1k8 2% 0,25W
2500	4822 122 33809	22nF 20% 50V	3045 4822 051 10101	100Ω 2% 0,25W
2501	4822 122 33809	22nF 20% 50V	3046 4822 051 20362	3k6 5% 0,1W
2502	4822 122 33809	22nF 20% 50V	3047 4822 050 23903	39k 5% 0,125W
2503	4822 122 33809	22nF 20% 50V	3048 4822 050 21002	1k 1% 0,6W
2504	4822 122 33809	22nF 20% 50V	3049 4822 051 10101	100Ω 2% 0,25W
2505	4822 122 33809	22nF 20% 50V	3050 4822 050 21002	1k 1% 0,6W
2506	4822 124 23268	3300µF 20% 16V	3051 4822 050 24301	430Ω 5% 0,125W
2507	4822 124 40272	33µF 20% 16V	3053 4822 051 20334	330k 5% 0,1W
2508	5322 124 22094	220µF 20% 50V	3054 4822 051 20303	30k 5% 0,1W
2509	4822 124 41596	22µF 20% 50V	3055 4822 050 21002	1k 5% 0,125W
2510	4822 124 80148	2200µF 20% 16V	3060 4822 051 20103	10k 5% 0,1W
2512	4822 124 40272	33µF 20% 16V	3061 4822 050 26802	6k8 1% 0,6W
2513	4822 124 40272	33µF 20% 16V	3062 4822 051 20153	15k 5% 0,1W
2544 ▲	4822 126 10454	3,3nF 20% 400V	3063 4822 050 21003	10k 1% 0,6W
2560	4822 121 51252	470nF 5% 63V	3064 4822 116 52244	15k 5% 0,5W
2561	5322 121 42661	330nF 5% 63V	3065 ▲ 4822 052 10229	22Ω 5% 0,33W
2562	4822 124 40849	330µF 20% 16V	3066 ▲ 4822 052 10478	4Ω7 5% 0,33W
2600	4822 122 33496	100nF 10% 63V	3067 ▲ 4822 052 10478	4Ω7 5% 0,33W
2601	4822 122 33496	100nF 10% 63V	3070 4822 116 52244	15k 5% 0,5W
2602	4822 122 33496	100nF 10% 63V	3071 4822 051 20103	10k 5% 0,1W
2612	4822 122 33496	100nF 10% 63V	3072 4822 050 26802	6k8 1% 0,6W
2702	4822 124 40272	33µF 20% 16V	3073 ▲ 4822 052 10229	22Ω 5% 0,33W
2703	5322 122 32654	22nF 10% 63V	3074 4822 116 52244	15k 5% 0,5W
2731	4822 122 33809	22nF 20% 50V	3075 4822 050 21003	10k 1% 0,6W
2732	4822 124 40272	33µF 20% 16V	3080 4822 051 20682	6k8 5% 0,1W
2740	4822 124 40433	47µF 20% 25V	3081 4822 050 24702	4k7 1% 0,6W
2741	4822 122 33809	22nF 20% 50V	3082 4822 116 52244	15k 5% 0,5W
RESISTORS				
3000	4822 050 21003	10k 1% 0,6W	3085 4822 050 21003	10k 1% 0,6W
3001	4822 050 21003	10k 1% 0,6W	3086 ▲ 4822 052 10229	22Ω 5% 0,33W
3002	4822 050 21003	10k 1% 0,6W	3087 4822 116 52244	15k 5% 0,5W
3003	4822 050 21003	10k 1% 0,6W	3100 4822 050 22202	2k2 1% 0,6W
3004	4822 050 21003	10k 1% 0,6W	3101 4822 050 22203	22k 1% 0,6W
3005	4822 050 21003	10k 1% 0,6W	3102 4822 050 22203	22k 1% 0,6W
			3103 ▲ 4822 052 10478	4Ω7 5% 0,33W
			3105 ▲ 4822 052 10478	4Ω7 5% 0,33W
			3106 4822 050 21002	1k 1% 0,6W
			3109 4822 050 22202	2k2 1% 0,6W

3110	4822 051 20224	220k 5% 0,1W	3562	4822 050 22205	2M2 1% 0,6W
3111 ▲	4822 052 10229	22Ω 5% 0,33W	3563	4822 050 21003	10k 1% 0,6W
3112	4822 050 22205	2M2 1% 0,6W	3564	4822 050 13303	33k 1% 0,4W
3117	4822 051 20182	1k8 5% 0,1W	3565	4822 050 22204	220k 1% 0,6W
3118	4822 051 20182	1k8 5% 0,1W	3566	4822 050 21002	1k 1% 0,6W
3140	4822 116 52234	100k 5% 0,5W	3567	4822 050 22203	22k 1% 0,6W
3141	4822 051 20104	100k 5% 0,1W	3568	4822 050 24702	4k7 1% 0,6W
3142	4822 051 20473	47k 5% 0,1W	3600	4822 050 24702	4k7 1% 0,6W
3143 ▲	4822 052 10229	22Ω 5% 0,33W	3601	4822 050 21203	12k 1% 0,6W
3144	4822 050 22203	22k 1% 0,6W	3602	4822 051 20123	12k 5% 0,1W
3146	4822 050 21003	10k 1% 0,6W	3603 ▲	4822 052 10108	1Ω 5% 0,33W
3147	4822 050 23902	3k9 1% 0,6W	3604	4822 050 21203	12k 1% 0,6W
3148	4822 050 24703	47k 1% 0,6W	3605	4822 050 21203	12k 1% 0,6W
3251	4822 050 24703	47k 1% 0,6W	3606 ▲	4822 052 10108	1Ω 5% 0,33W
3255	4822 051 10561	560Ω 2% 0,25W	3607 ▲	4822 052 10229	22Ω 5% 0,33W
3256	4822 051 20621	620Ω 5% 0,1W	3608 ▲	4822 052 10108	1Ω 5% 0,33W
3300	4822 050 22203	22k 1% 0,6W	3614	4822 050 24703	47k 1% 0,6W
3301	4822 051 20153	15k 5% 0,1W	3630	4822 051 20562	5k6 5% 0,1W
3302	4822 051 20183	18k 5% 0,1W	3631	4822 050 21203	12k 1% 0,6W
3304	4822 051 20123	12k 5% 0,1W	3632	4822 051 20123	12k 5% 0,1W
3305 ▲	4822 052 10109	10Ω 5% 0,33W	3633 ▲	4822 052 10108	1Ω 5% 0,33W
3306 ▲	4822 052 10109	10Ω 5% 0,33W	3634	4822 050 21203	12k 1% 0,6W
3307	4822 050 21803	18k 1% 0,6W	3635	4822 050 21203	12k 1% 0,6W
3308	4822 050 21203	12k 1% 0,6W	3637 ▲	4822 052 10229	22Ω 5% 0,33W
3309	4822 051 20223	22k 5% 0,1W	3638	4822 050 24703	4

CONTROL - DISPLAY PANEL CDC925			3410 4822 116 52234 100k 5% 0.5W
MISCELLANEOUS			3411 4822 116 52234 100k 5% 0.5W
25 4822 256 91908 DISPLAY HOLDER			3412 4822 051 10101 100Ω 2% 0.25W
1400 4822 130 91116 DISPLAY 8-BT-121GK			3413 4822 051 10101 100Ω 2% 0.25W
1403 4822 265 40722 RFK5 CONNECTOR			3460 4822 050 24703 47k 1% 0.6W
1404 4822 265 40475 RFK5 CONNECTOR			
1408 4822 264 40256 RFK5 CONNECTOR			
1411 4822 267 40696 RFK5 CONNECTOR			
1420 4822 276 13114 TACT SWITCH			DIODES
1421 4822 276 13114 TACT SWITCH			6420 4822 130 30621 1N4148
1422 4822 276 13114 TACT SWITCH			6421 4822 130 30621 1N4148
1423 4822 276 13114 TACT SWITCH			6422 4822 130 30621 1N4148
1424 4822 276 13114 TACT SWITCH			6423 4822 130 30621 1N4148
1425 4822 276 13114 TACT SWITCH			6424 4822 130 30621 1N4148
1426 4822 276 13114 TACT SWITCH			
1427 4822 276 13114 TACT SWITCH			
1428 4822 276 13114 TACT SWITCH			
1429 4822 276 13114 TACT SWITCH			TRANSISTORS & IC's
1430 4822 276 13114 TACT SWITCH			7400 4822 209 30249 TMP47C212AN
1431 4822 276 13114 TACT SWITCH			7401 4822 130 40938 BC548
1432 4822 276 13114 TACT SWITCH			7402 4822 130 40938 BC548
1433 4822 276 13114 TACT SWITCH			7460 4822 214 51772 GP1U521X
1434 4822 276 13114 TACT SWITCH			
1435 4822 276 13114 TACT SWITCH			
1436 4822 276 13114 TACT SWITCH			
1437 4822 276 13213 TACT SWITCH			
CRYSTAL			
1402 4822 242 72527 RESONATOR 4 MHz			
CAPACITORS			
2402 5322 124 21643 22µF 20% 40V			
2404 5322 124 21643 22µF 20% 40V			
2405 4822 122 10166 22nF 30% 16V			
2460 4822 122 33809 22nF 20% 50V			
RESISTORS			
3400 4822 050 22204 220k 1% 0.6W			
3401 4822 050 22203 22k 1% 0.6W			
3402 4822 050 22203 22k 1% 0.6W			
3403 4822 050 22203 22k 1% 0.6W			
3404 4822 050 22203 22k 1% 0.6W			
3405 ▲ 4822 052 10478 4Ω7 5% 0.33W			
3406 4822 050 22203 22k 1% 0.6W			
3407 ▲ 4822 052 10108 1Ω 5% 0.33W			

4012	4822 051 10008	0Ω 5% 0,25W	7140	5322 130 42012	BC858
4013	4822 051 10008	0Ω 5% 0,25W	7141	4822 130 61207	BC848
4014	4822 051 10008	0Ω 5% 0,25W	7300	4822 209 83163	LM833N
4015	4822 051 10008	0Ω 5% 0,25W	7360	4822 130 42696	BC818-25
4016	4822 051 10008	0Ω 5% 0,25W	7361	4822 130 42696	BC818-25
4017	4822 051 10008	0Ω 5% 0,25W	7362	4822 130 61207	BC848
4018	4822 051 10008	0Ω 5% 0,25W	7371	4822 130 42696	BC818-25
4020	4822 051 10008	0Ω 5% 0,25W	7372	4822 130 42696	BC818-25
4022	4822 051 10008	0Ω 5% 0,25W	7380	4822 209 82362	NJM4556D
4024	4822 051 10008	0Ω 5% 0,25W	7500	4822 209 31257	MC79L24ACP
4053	4822 051 10008	0Ω 5% 0,25W	7501 ▲	4822 209 71579	TY40408
4054	4822 051 10008	0Ω 5% 0,25W	7502 ▲	4822 209 71579	TY40408
4055	4822 051 10008	0Ω 5% 0,25W	7503	4822 130 42675	BC818
			7550	5322 130 42012	BC858
			7560	4822 130 61207	BC848
COILS			7561	5322 130 42012	BC858
5250	4822 148 80281	DIG.OUT TRANSFORMER	7562	5322 130 42012	BC858
			7600	4822 209 72587	TCA0372DP2
			7700	4822 209 31353	MC68HC05D24P-P140
			7701	4822 130 83031	BPW85
DIODES			7730	4822 209 62524	X24C16P
6100	4822 130 30621	1N4148	7740	5322 130 42012	BC858
6500	5322 130 30684	1N4002	7741	4822 130 61207	BC848
6501	5322 130 30684	1N4002	7742	4822 130 61207	BC848
6502	5322 130 30684	1N4002	7743	5322 130 42012	BC858
6503	5322 130 30684	1N4002			
6504	5322 130 30684	1N4002			
6505	4822 130 31981	BZX79-C3V9			
6506	5322 130 32962	BZV85-C6V2			
6507	4822 130 34173	BZX79-C5V6			
6550	4822 130 31981	BZX79-C3V9			
6560	4822 130 30621	1N4148			
6561	4822 130 30621	1N4148			
6562	5322 130 30684	1N4002			
6563	5322 130 30684	1N4002			
6564	4822 130 30621	1N4148			
6565	4822 130 34278	BZX79-F6V8			
6566	4822 130 31981	BZX79-C3V9			
TRANSISTORS & IC's					
7000	4822 209 31064	TDA1301T/N1			
7040 ▲	5322 130 41982	BC848B			
7041	5322 130 41983	BC858B			
7042 ▲	5322 130 41982	BC848B			
7043 ▲	5322 130 41982	BC848B			
7044	4822 130 60887	BF840			
7060	4822 209 72587	TCA0372DP2			
7080	4822 209 72587	TCA0372DP2			
7101	4822 209 63925	FCB61C65L-70T			
7102	4822 209 30388	SAA7341GP			

CONTROL - DISPLAY PANEL CDC935			3405	4822 050 22203	22k	1%	0,6W
MISCELLANEOUS			3406	4822 050 22203	22k	1%	0,6W
25 4822 256 91909 DISPLAY HOLDER			3407	4822 050 22203	22k	1%	0,6W
1402 4822 130 91117 DISPLAY 8-BT-106GK			3408	4822 050 22203	22k	1%	0,6W
1403 4822 267 50723 RFK5 CONNECTOR			3409	4822 050 22203	22k	1%	0,6W
1404 4822 265 40475 RFK5 CONNECTOR			3410	4822 116 52234	100k	5%	0,5W
1408 4822 264 40256 RFK5 CONNECTOR			3411	4822 051 10101	100Ω	2%	0,25W
1411 4822 267 40696 RFK5 CONNECTOR			3412	4822 050 24702	4k7	1%	0,6W
1420 4822 276 13114 TACT SWITCH			3414	5322 111 90473	8x10k	2%	NETWORK
1421 4822 276 13114 TACT SWITCH			3415	4822 116 52235	1M	5%	0,5W
1422 4822 276 13114 TACT SWITCH			3460	4822 050 24703	47k	1%	0,6W
1423 4822 276 13114 TACT SWITCH			DIODES				
1424 4822 276 13114 TACT SWITCH			6420	4822 130 30621	1N4148		
1425 4822 276 13213 TACT SWITCH			6421	4822 130 30621	1N4148		
1426 4822 276 13114 TACT SWITCH			6422	4822 130 30621	1N4148		
1427 4822 276 13114 TACT SWITCH			6423	4822 130 30621	1N4148		
1428 4822 276 13114 TACT SWITCH			6424	4822 130 30621	1N4148		
1429 4822 276 13114 TACT SWITCH			6428	4822 130 30621	1N4148		
1430 4822 276 13114 TACT SWITCH			TRANSISTORS & IC's				
1431 4822 276 13114 TACT SWITCH			7401	4822 209 31251	TMP47C670P-FTDD007		
1432 4822 276 13114 TACT SWITCH			7403	4822 209 60886	UDN-2580A		
1433 4822 276 13114 TACT SWITCH			7405	4822 130 40941	BC558		
1434 4822 276 13114 TACT SWITCH			7460	4822 214 51772	GP1U521X		
1435 4822 276 13114 TACT SWITCH							
1436 4822 276 13114 TACT SWITCH							
1437 4822 276 13114 TACT SWITCH							
1455 4822 276 13114 TACT SWITCH							
1456 4822 276 13114 TACT SWITCH							
1457 4822 276 13114 TACT SWITCH							
1458 4822 276 13114 TACT SWITCH							
CRYSTAL							
1401 4822 242 81002 RESONATOR 6 MHz							
CAPACITORS							
2401 5322 124 21643 22µF 20% 40V							
2402 4822 122 10166 22nF 30% 16V							
2403 4822 122 10166 22nF 30% 16V							
2407 4822 122 10166 22nF 30% 16V							
2460 4822 122 33809 22nF 20% 50V							
RESISTORS							
3401 ▲ 4822 052 10478 4Ω7 5% 0,33W							
3402 ▲ 4822 052 10478 4Ω7 5% 0,33W							
3404 4822 050 22203 22k 1% 0,6W							

KEYBOARD PANEL			MAINS VOLTAGE		
MISCELLANEOUS					
1439	4822 276 13114	TACT SWITCH	24	▲ 4822 256 30403	FUSE HOLDER /01
1440	4822 276 13213	TACT SWITCH	1501	▲ 4822 253 30322	FUSE T200mA /17
1441	4822 276 13114	TACT SWITCH	1501	▲ 4822 070 31001	FUSE T100mA
1442	4822 276 13213	TACT SWITCH	1543	▲ 4822 277 11237	VOLTAGE SELECTOR /01
1443	4822 276 13213	TACT SWITCH	5500	▲ 4822 146 31104	MAINTRANSFORMER /17
1444	4822 276 13213	TACT SWITCH	5500	▲ 4822 146 31102	MAINTRANSFORMER
1445	4822 276 13213	TACT SWITCH			
1446	4822 276 13213	TACT SWITCH			
1447	4822 276 13213	TACT SWITCH			
1448	4822 276 13114	TACT SWITCH			
1449	4822 276 13114	TACT SWITCH			
1450	4822 276 13114	TACT SWITCH			
1451	4822 276 13213	TACT SWITCH			
1452	4822 276 13213	TACT SWITCH			
1453	4822 276 13213	TACT SWITCH			
1454	4822 276 13213	TACT SWITCH			
DIODES					
6425	4822 130 30621	1N4148			
6426	4822 130 30621	1N4148			
6427	4822 130 30621	1N4148			