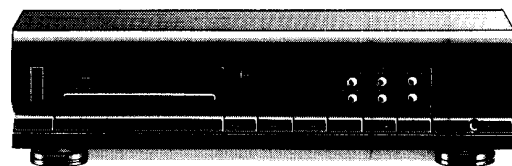


Service  
Service  
Service

CD502/00B/01B/10B/17B  
/34B/37B



45 328 A11

# Service Manual

COMPACT  
disc  
DIGITAL AUDIO

## CONTENTS

- 1 Technical specification
- 2 Controls and connections
- 3 Servicing hints and tools,  
Disassembly of the cabinet and loading  
Exploded view
- 4 Faultfinding tree  
Specification measurements
- 5 Block diagram  
Power supply  
Photo diode controller panel  
Servo control and decoder panel  
Control and display panel
- 6 Parts list

(GB)

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

(NL)

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

(D)

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

(I)

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

(F)

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

(S)

Varning!

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

(SF) Varoitus!

Laite sisältää laseriodin, joka lähettää näkymätöntä silmille vaarallista lasersäteilyä.

CLASS 1  
LASER PRODUCT

3122 110 08420



**TECHNICAL SPECIFICATIONS****General**

- |                                      |   |
|--------------------------------------|---|
| 1. Mains voltage                     | : 117 Volt (+/- 10%)  |
| 2. Mains frequency                   | : 60 Hz   |
| 3. Mains voltage selection           | : By soldering (220/240 Volt-version)<br>By changing transformer (110/127 Volt-version) |
| 4. Power consumption mains, operated | : 9 W   |
| Standby                              | : 3 W   |

**Line output**

- |  |   |
|--|---|
| 1. Number of channels                                  | : 2                                     |
| 2. Output voltage                                      | : 2 Vrms +/- 2 dB                       |
| 3. Unbalance Left-Right                                | : max. 0,5 dB                           |
| 4. Output resistance                                   | : 1 kOhm                                |
| 5. Amplitude linearity                                 | : max. +/- 0,15 dB from 20 Hz to 18 kHz |
| 6. Phase non-linearity                                 | : max. +/- 1° from 20 Hz to 18 kHz      |
| 7. Signal to noise ratio                               | : min 90 dB from 20 Hz to 18 kHz        |
| 8. Dynamic range                                       | : min 80 dB from 20 Hz to 18 kHz        |
| 9. Total harmonic distortion + noise                   | : min 66 dB from 20 Hz to 18 kHz        |
| 10. Intermodulation distortion                         | : min 66 dB from 20 Hz to 18 kHz        |
| 11. Out-band attenuation                               | : min 50 dB                             |
| 12. Channel separation                                 | : min 80 dB from 20 Hz to 18 kHz        |
| 13. Muting during random access                        | : min 90 dB from 20 Hz to 18 kHz        |
| 14. Automatic switched de-emphasis with time constants | 15/50 us                                |

**Headphone**

- |                                      |   |
|--------------------------------------|---|
| 1. Output voltage                    | : max. 2 Vrms +/- 2 dB  |
| 2. Unbalance Left-right              | : max. +/- 0,2 dB   |
| 3. Output resistance                 | : 150 Ohm   |
| 4. Load impedance range              | : 32 Ohm to 600 Ohm   |
| 5. Output power                      | : max. 6 mW into 32 Ohm load<br>max. 10 mW into 150 Ohm load<br>max. 6 mW into 600 Ohm load |
| 6. Signal to noise ratio             | : min 90 dB   |
| 7. Dynamic range                     | : min 80 dB from 20 Hz to 18 kHz  |
| 8. Total harmonic distortion + noise | : min 66 dB from 20 Hz to 18 kHz  |
| 9. Intermodulation distortion        | : min 66 dB from 20 Hz to 18 kHz  |
| 10. Channel separation               | : min 65 dB from 20 Hz to 18 kHz  |

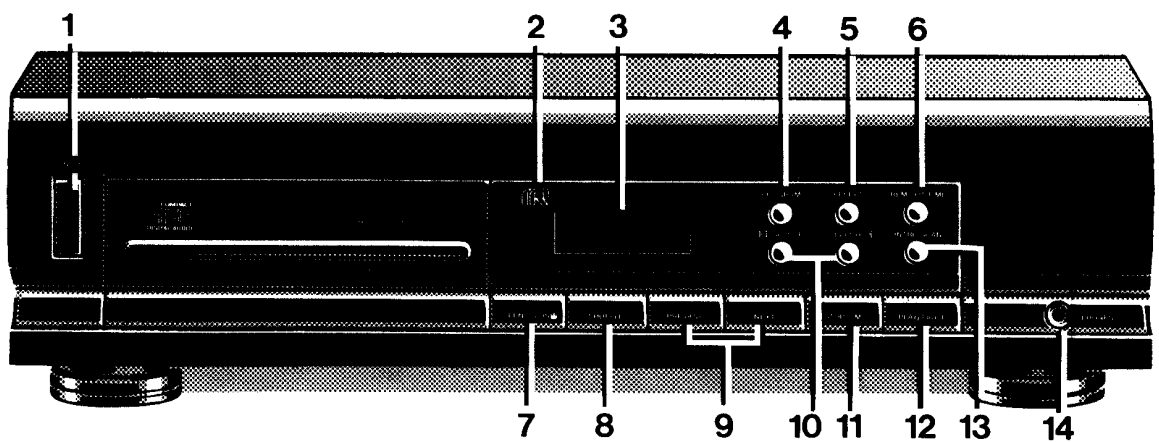
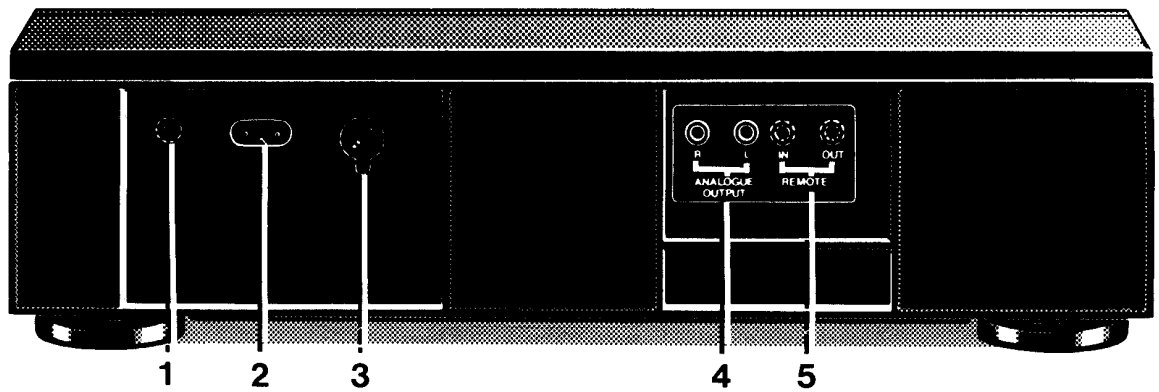
**Dimensions and weight**

- |                          |       |                         |
|--------------------------|-------|-------------------------|
| 1. Apparatus tray closed | WxDxH | : 420 x 280 x 88/104 mm |
| 2. Apparatus tray open   | WxDxH | : 420 x 415 x 88/104 mm |
| 3. Weight                |       | : 2,8 kg                |

**Optical read-out system**

- |                     |                        |
|---------------------|------------------------|
| Laser type          | : Semiconductor AlGaAs |
| Wave length         | : 780 nm ± 20 nm       |
| Light output (c.w.) | : 0,4 mW ± 0,04 mW     |

## CONTROLS AND CONNECTIONS



45 329 A11

## OPERATION

## KEYS

- 1 STAND BY
- 2 IR
- 3 DISPLAY
- 4 PROGRAM
- 5 REPEAT
- 6 REM(aining) TOT(al) TIME
- 7 OPEN/CLOSE
- 8 SHUFFLE
- 9 PREVIOUS/NEXT
- 10 << SEARCH >>
- 11 STOP/cm
- 12 PLAY/PAUSE
- 13 INTRO SCAN
- 14 PHONES

## CONNECTIONS

- 1. Mains fuse holder
- 2. Mains socket
- 3. Voltage selector
- 4. Analogue output
- 5. Remote IN/OUT

**3. SERVICING HINTS**

When the tray mechanism and CDM-unit has been disassembled the player can be prepared for measurements by bridging or activating the "laser safety switch" SK3 on the photo diode signal controller panel.

**Service disc hold-down**

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

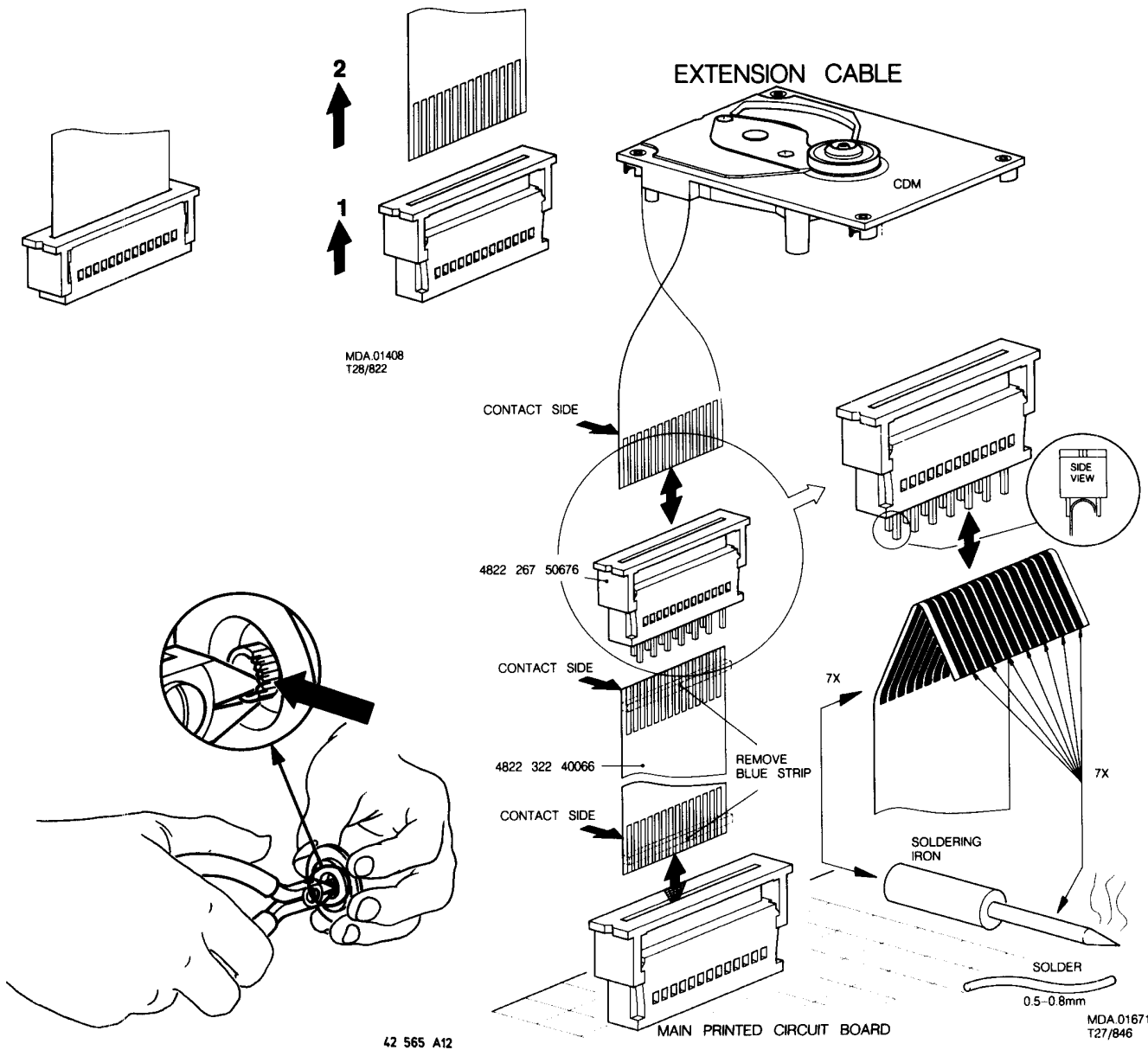
If the tray mechanism has to be disassembled for servicing, a separate disc hold-down should be used. For a service disc hold-down see the figure below.

Compose a service Disc hold-down in the following way.

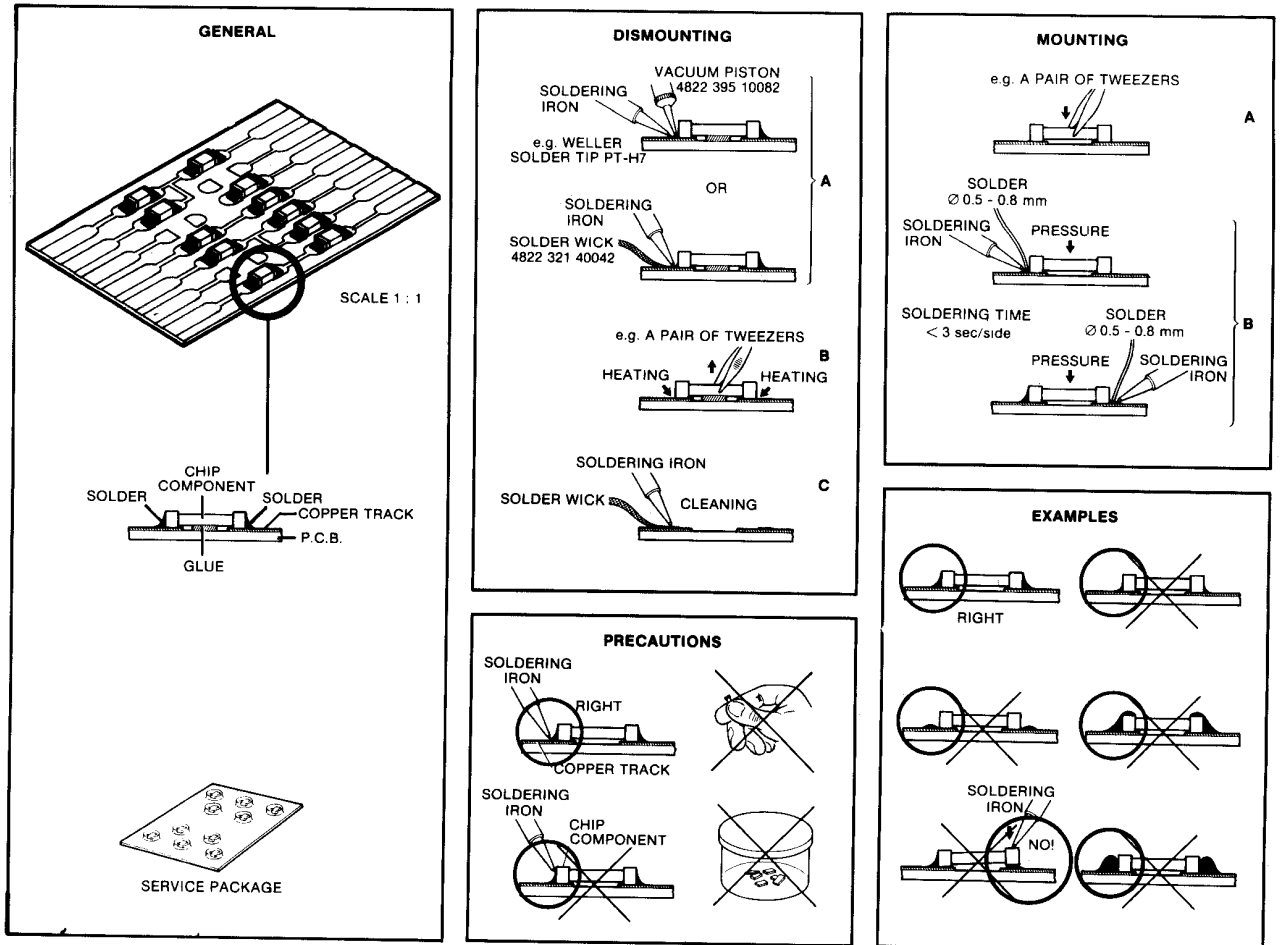
- Cut in the most inner ring of a disc holddown (4822 462 50383) with small and sharp nippers See fig. below.
- Enlarge the diameter of the innermost ring slightly with the hind part of a pencil or ballpoint, so that it jams onto the turntable with sufficient force.
- If the jamming force decreases after certain time of use, the diameter has to be enlarged with a pencil or ballpoint again.

**SERVICE TOOLS**

Audio signal disc	4822 397 30184
Disc without errors (test disc 5) + disc with DO errors, black spots and fingerprints (test disc 5A)	4822 397 30096
Disc (65 min 1kHz) without pause	4822 397 30155
Max. diameter disc (58.0 mm)	4822 397 60141
Torx screwdrivers	
Set (straight)	4822 395 50145
Set (square)	4822 395 50132
13th order filter	4822 395 30204
Service cable (4p)	4822 321 21284
Service flexfoil (14p)	4822 322 40066
Service connector (14p)	4822 267 50676
Green LED CQY G11	5322 130 32182
Infra red remote control e.g.	4822 218 10349



SERVICING HINTS AND TOOLS



27 012C12

**(GB) WARNING**

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

When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance. Keep components and tools also at this potential.

**ESD**



**(NL) WAARSCHUWING**

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

Onzorgvuldig behandelen tijdens reparatie kan de levensduur drastisch doen verminderen. Zorg ervoor dat u tijdens reparatie via een polsband met weerstand verbonden bent met hetzelfde potentiaal als de massa van het apparaat.

Houd componenten en hulpmiddelen ook op ditzelfde potentiaal.

**(F) ATTENTION**

Tous les IC et beaucoup d'autres semi-conducteurs sont sensibles aux décharges statiques (ESD). Leur longévité pourrait être considérablement écourtée par le fait qu'aucune précaution n'est prise à leur manipulation.

Lors de réparations, s'assurer de bien être relié au même potentiel que la masse de l'appareil et enfilez 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).

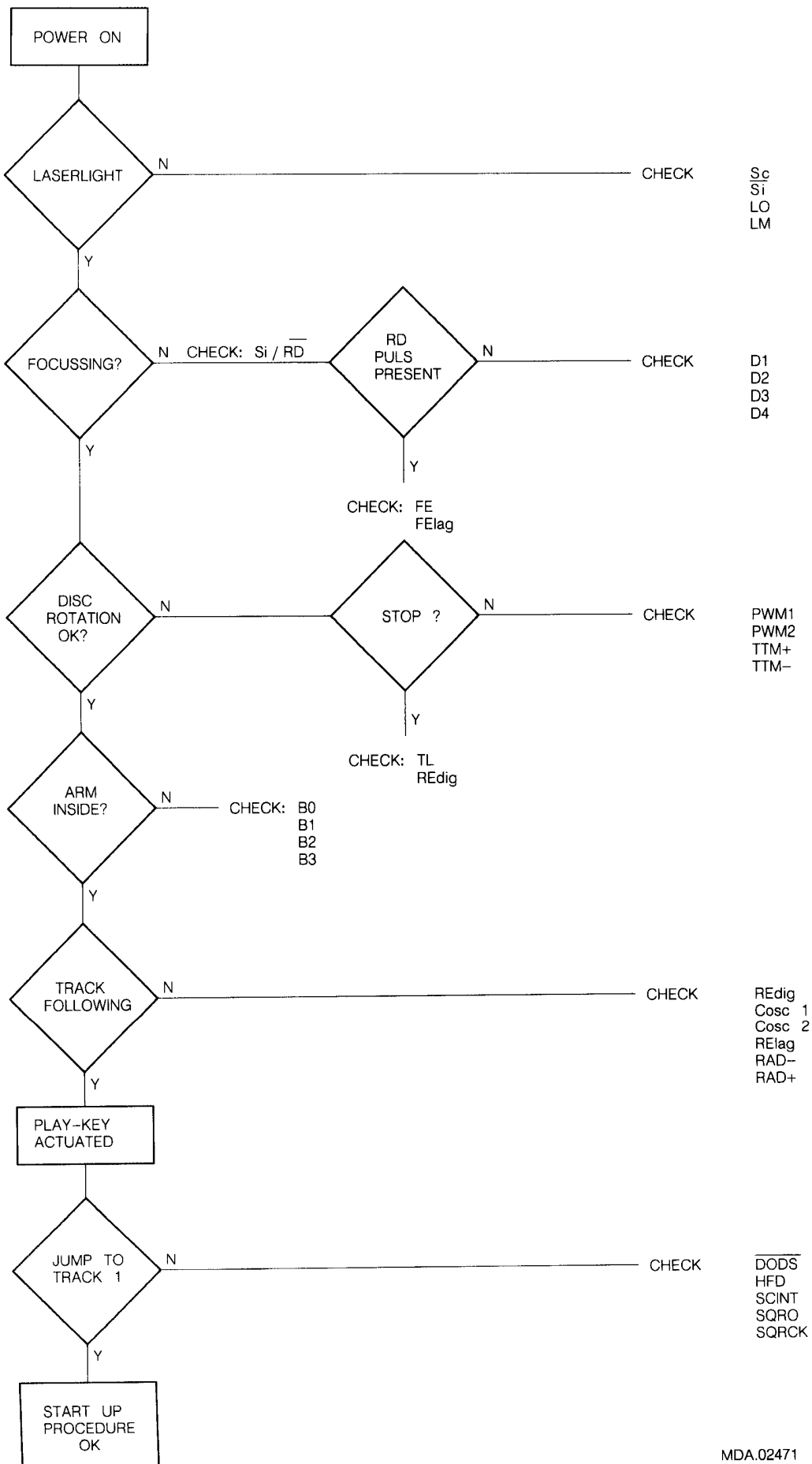
Unvorsichtige Behandlung im Reparaturfall kann die Lebensdauer drastisch reduzieren. Veranlassen Sie, dass Sie im Reparaturfall über ein Pulsarmband mit Widerstand verbunden sind mit dem gleichen Potential wie die Masse des Gerätes.

Bauteile und Hilfsmittel auch auf dieses gleiche Potential halten.

**(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.

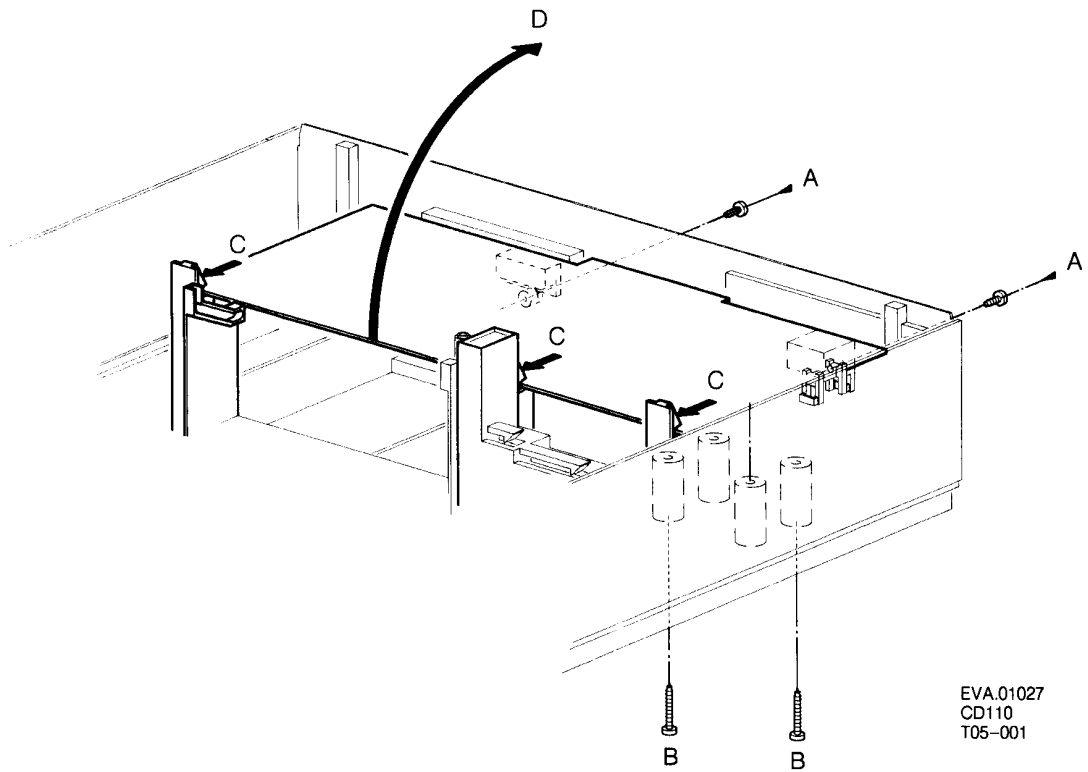
Assicurarsi che i componenti e anche gli utensili con quali si lavora siano anche a questo potenziale.



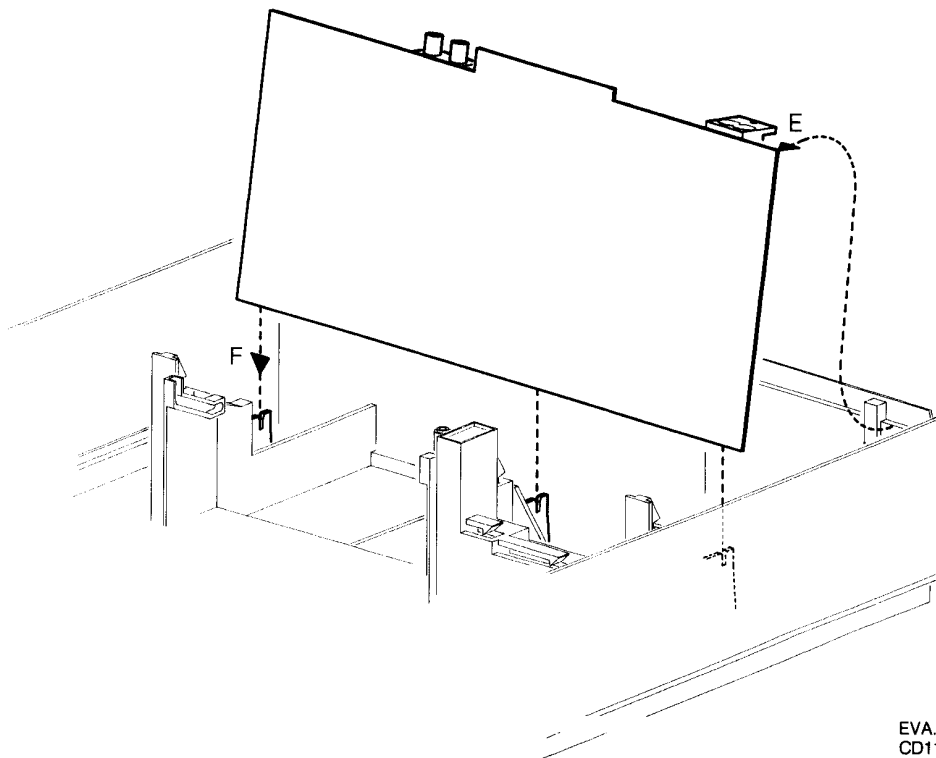
MDA.02471  
T07-9001

DISASSEMBLY OF THE CABINET AND LOADING

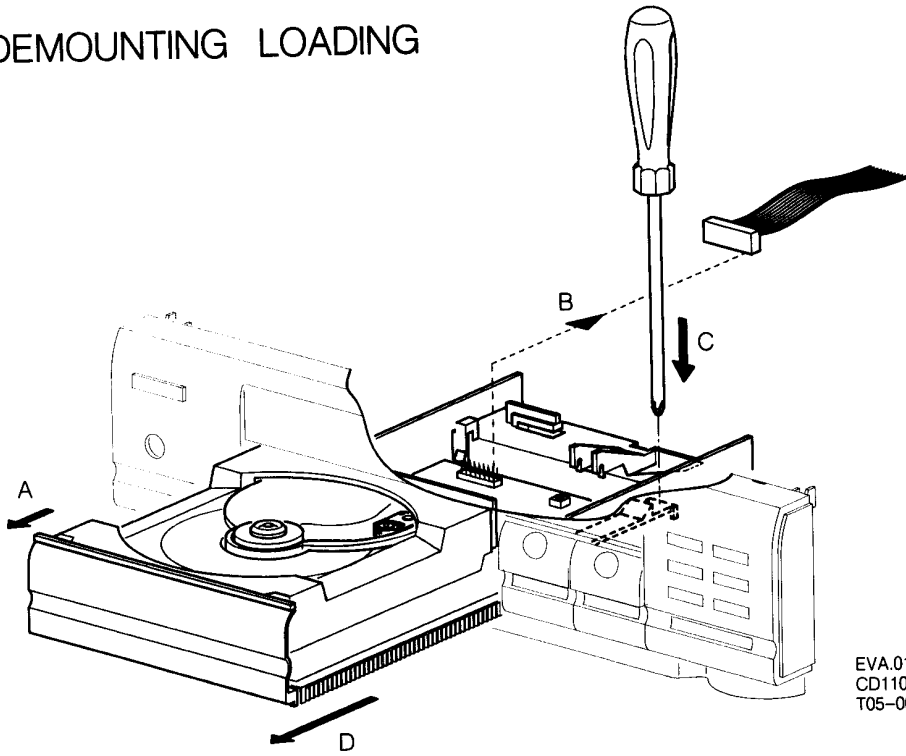
DEMOUNTING MAINPANEL



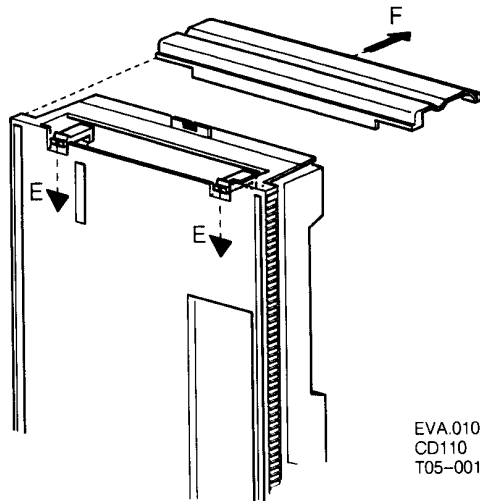
SERVICE POSITION MAINPANEL



# DEMOUNTING LOADING



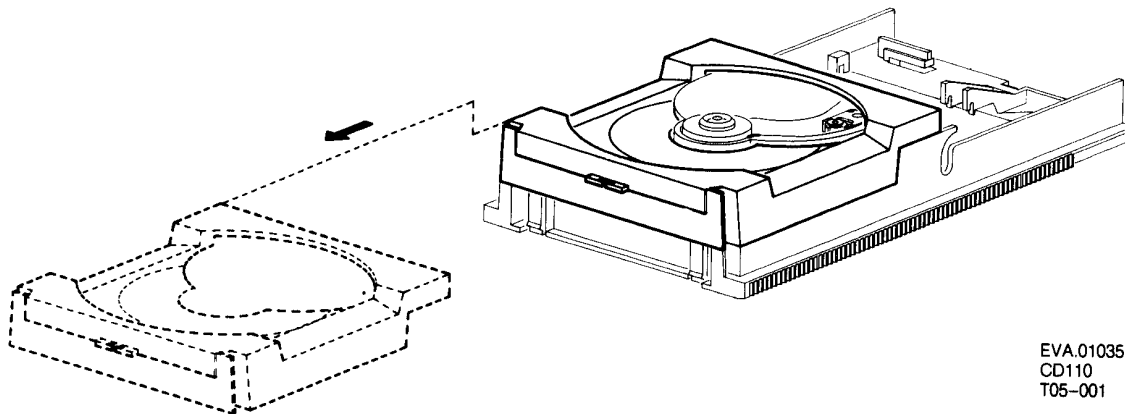
EVA.01033  
CD110  
T05-001



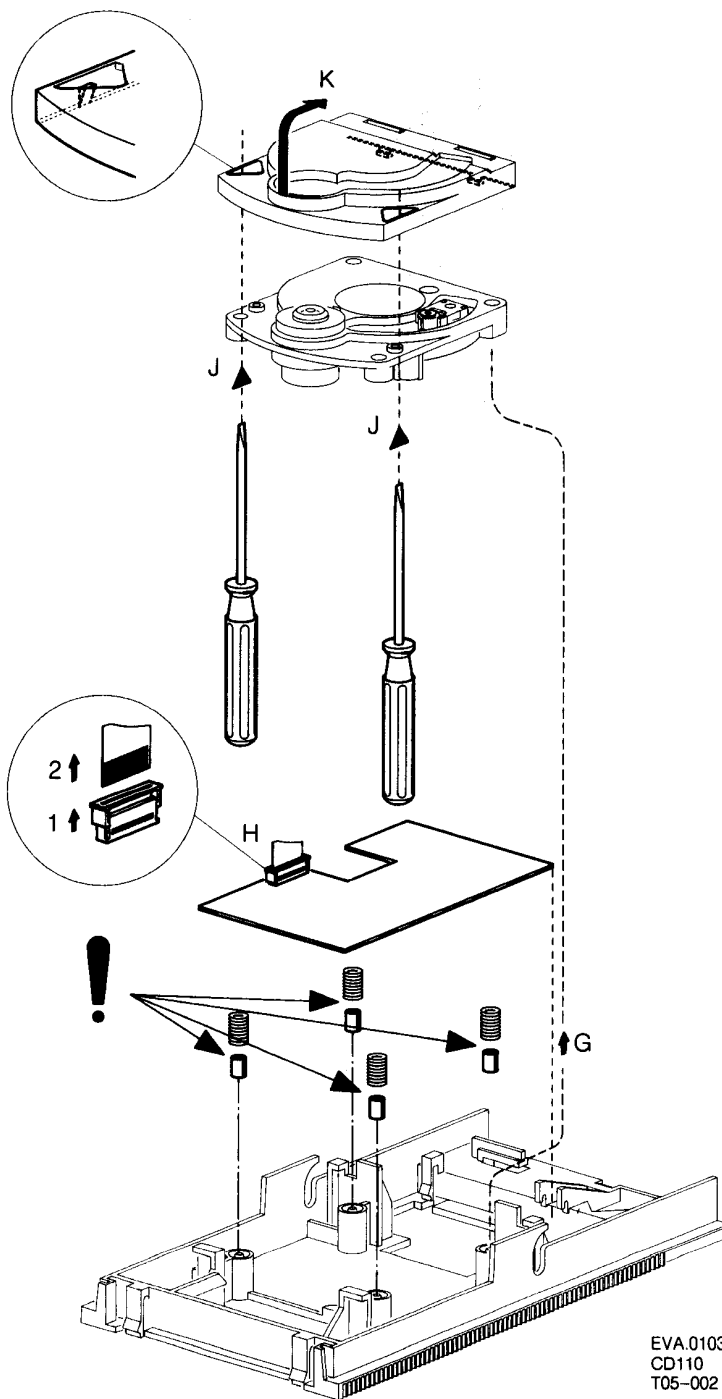
EVA.01032  
CD110  
T05-001



DEMOUNTING CDM



EVA.01035  
CD110  
T05-001

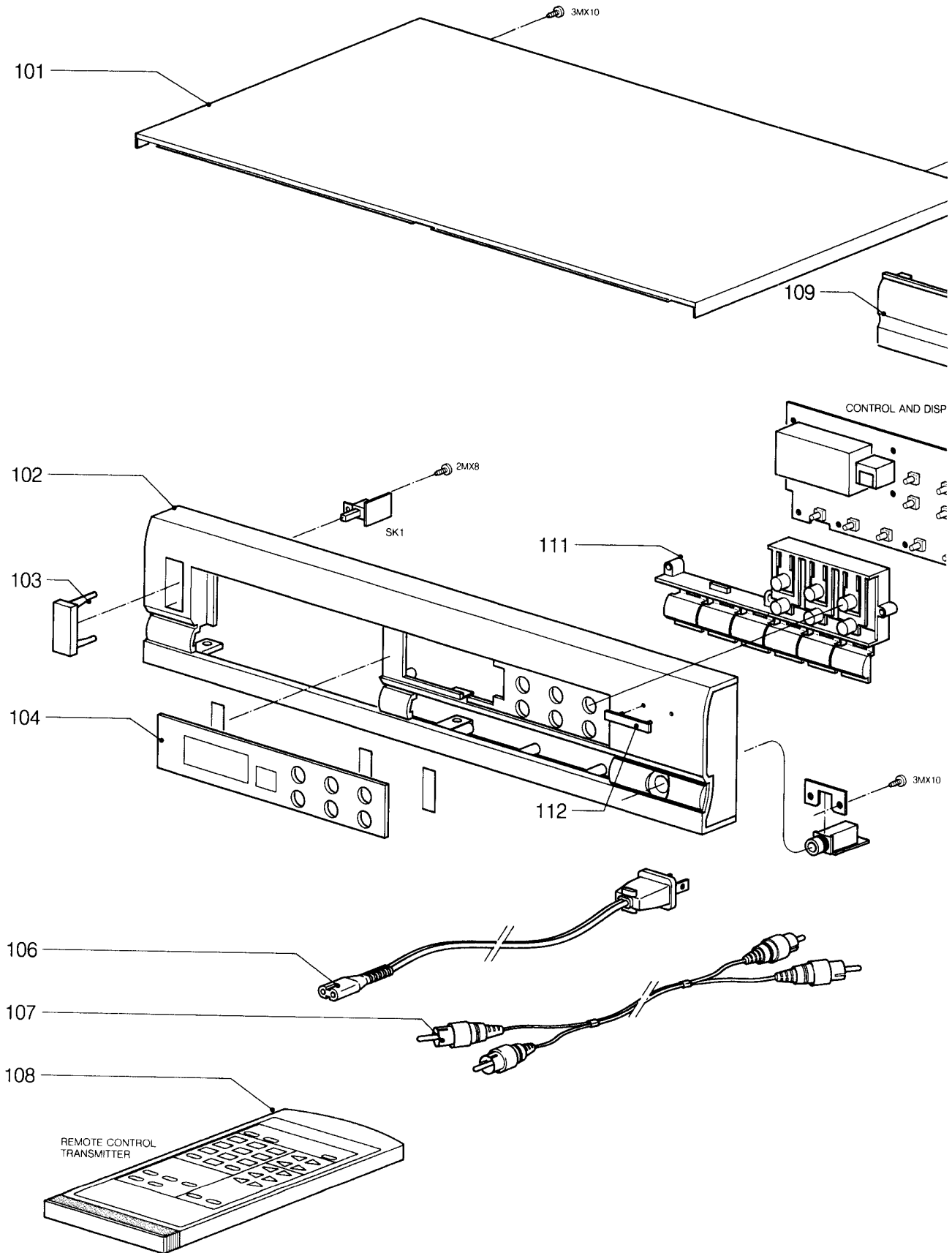


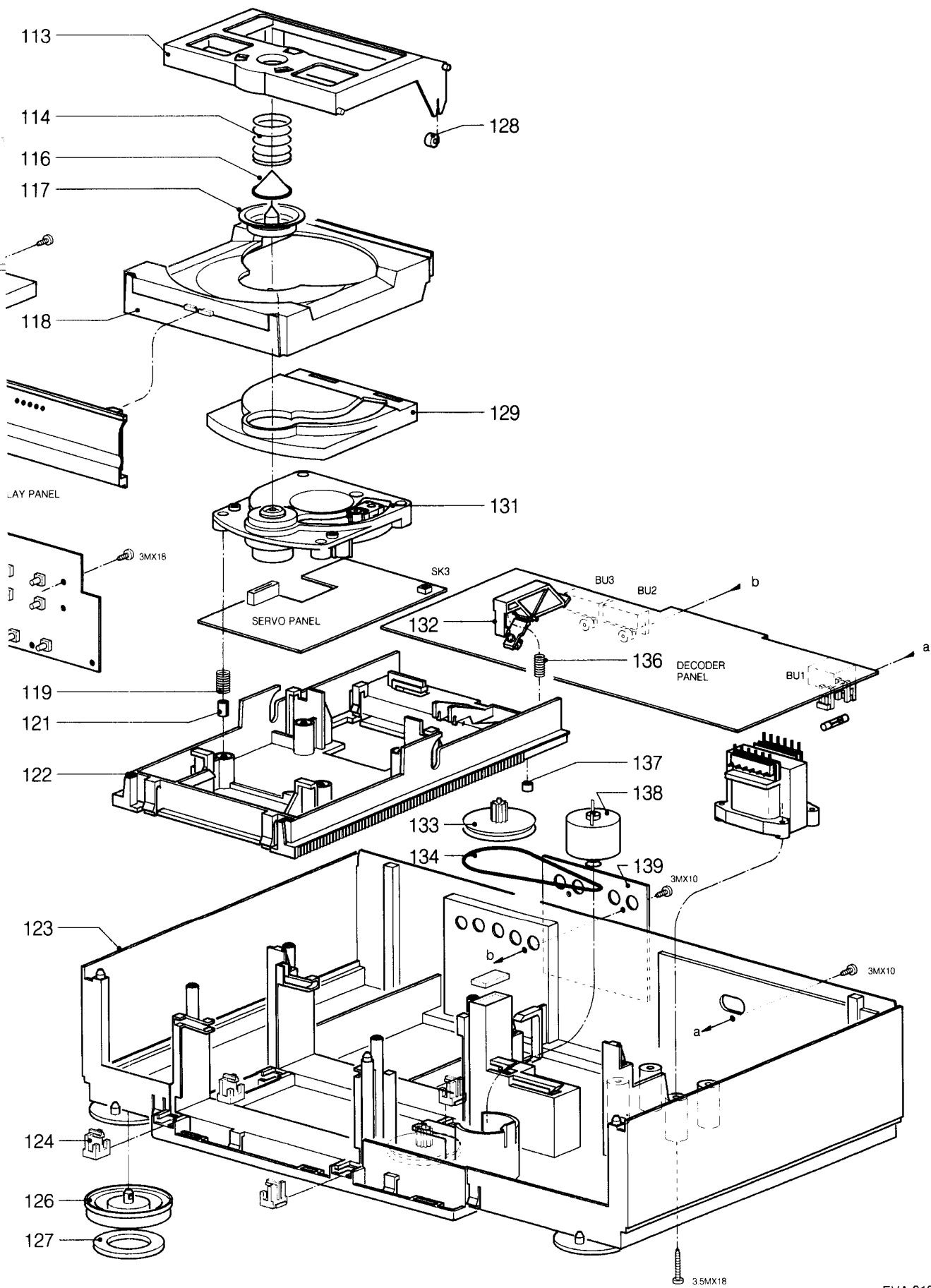
EVA.01034  
CD110  
T05-002

## MECHANICAL PARTSLIST

101	4822 444 60693	
102	4822 444 40374	for CD500/17B /37B
102	4822 444 40384	for CD500/00B /01B
102	4822 444 40376	for CD502/17B /37B
102	4822 444 40385	for CD502/00B /01B /10B
102	4822 444 40383	for CD502/34B
103	4822 410 60703	
104	4822 381 11122	for CD500
104	4822 381 11123	for CD502
106	4822 321 10445	for /17B /34B /37B
106	4822 321 10457	for /00B /01B
106	4822 321 10523	for /10B
107	4822 321 22832	
108	4822 217 25100	
109	4822 444 13260	
111	4822 410 60702	
112	4822 459 10967	for /17B /37B
112	4822 459 10806	for /00B /01B /10B
112	4822 459 10889	for CD502/34B
113	4822 466 92841	
114	4822 492 52159	
116	4822 535 93054	
117	4822 492 33145	
118	4822 444 60681	
119	4822 492 51902	
121	4822 466 61587	
122	4822 444 50628	
123	4822 464 50803	
124	4822 402 61323	
126	4822 462 41703	
127	4822 462 40683	
128	4822 528 90639	
129	4822 454 30438	
131	4822 691 30209	
132	4822 402 61322	
133	4822 528 81329	
134	4822 358 10115	
136	4822 492 51935	
137	4822 532 51756	
138	4822 361 21258	
139	4822 444 60694	for CD500
139	4822 444 60679	for CD502

EXPLODED VIEW

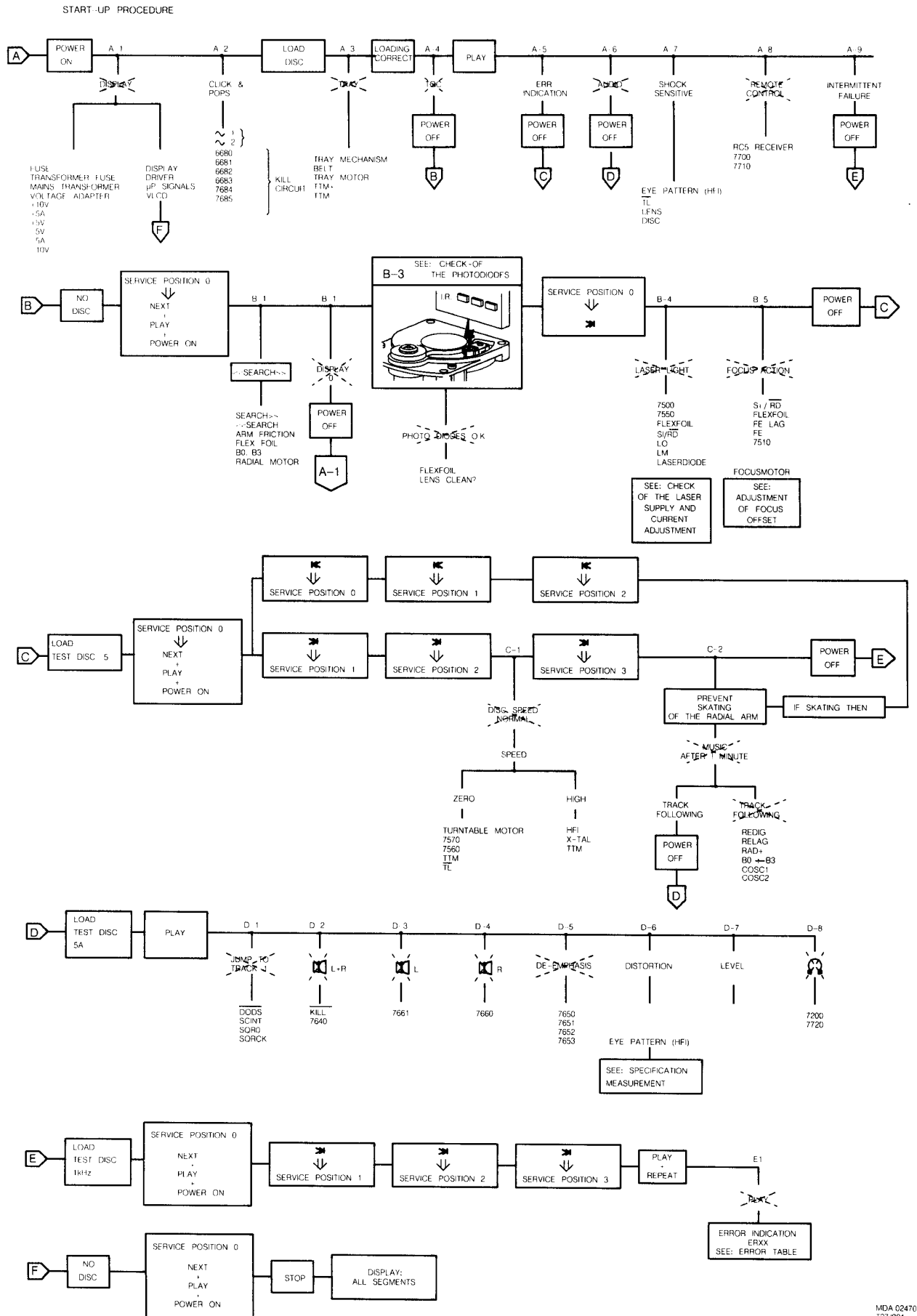




EVA.01084  
T28/015

**FAULTFINDING TREE**

TROUBLE SHOOTING (FAULT FINDING TREE)



**B-3 CHECK OF THE PHOTODIODES**

Step	Signal	Mode					Remarks
1	D2 D1 D3 D4	power on	   	-	-	signal 4≅6≅7≅8	Signal depends on Distance lens ↔ IR LED of remote control

T-22407A

**B-4 CHECK OF LASER SUPPLY**

The laser, the lasersupply plus the monitor diode form a feedback system.

A defect in the lasersupply may result in the destruction of the laser. If, in that case, the laser is replaced, (= complete D.C.M.-unit) the new laser will also become defective. However, it is impossible to check and repair a feedback system if a link is missing. For this reason the laser supply can be checked with the replacement circuit for laser assembly.

Step	Signal	Mode			Remarks
1	LO	serv. pos. 2 SK		1.8<V <2.3	PRS05539
	LM			170<mV <220	
2	LO	serv. pos. 2 SK		1.8<V <2.3	PRS05540
	LM			170<mV <220	
3	LO	Power on		0V ± 0.2V	No light

T-22407B

**B-4 LASER CURRENT ADJUSTMENT**

STEP	SIGNAL	MODE					REMARKS	
1	--	POWER OFF	--	--	--	--	CHECK IF FLEX-FOIL IS PROPERLY CONNECTED	
2	--	POWER OFF			R3555	1kΩ +10% 0	PRE ADJUSTMENT OHMIC VALUE	
3	--	POWER OFF	--		R3515	--	SET TO MID-POSITION	
4	LASER CURRENT ≡ VOLTAGE ACROSS R3500	TEST DISC 5A PLAY				mV DC	≥15mV	IF ≤ 15mV THEN GO TO STEP 3 AND SET R3515 TO 1/4 OR 3/4. TRY AGAIN
5	LASER CURRENT ≡ VOLTAGE ACROSS R3500	TEST DISC 5A PLAY			R3555	mV DC	50mV	--
6	FE-LAG	TEST DISC 5A TRACK 1 PLAY			R3515	mV DC	400mV ±10%	FINE ADJUSTMENT




MDA 02444  
T28/950

**B-5 ADJUSTMENT OF FOCUS-OFFSET**

Step	Signal	Mode					Remarks
1	-	Power on no disc	-	R3568	-	-	adjust for optical mid-position of the focus motor
2	FE LAG	Play Test disc 5 Track 1	27	R3568	400mV ± 40 mV DC	-	fine adjustment

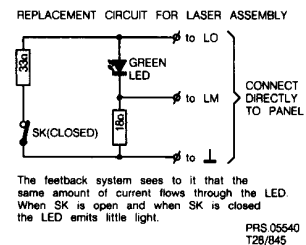
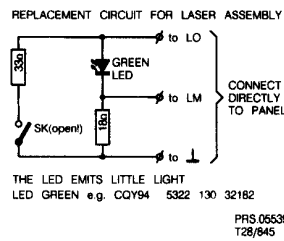
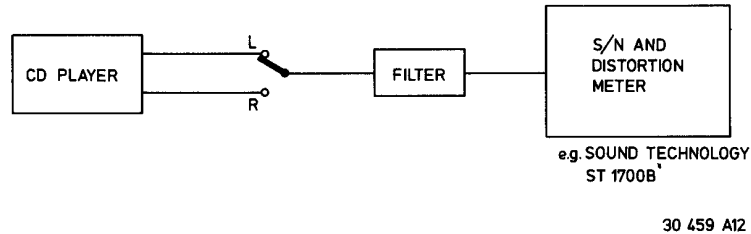
T-22407D

**D-6 SPECIFICATIONS MEASUREMENT**

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

T-22387M

Filter = 13th order filter 4822 395 30204



**ERROR CODE TABLE**

**SYSTEM ERRORS**

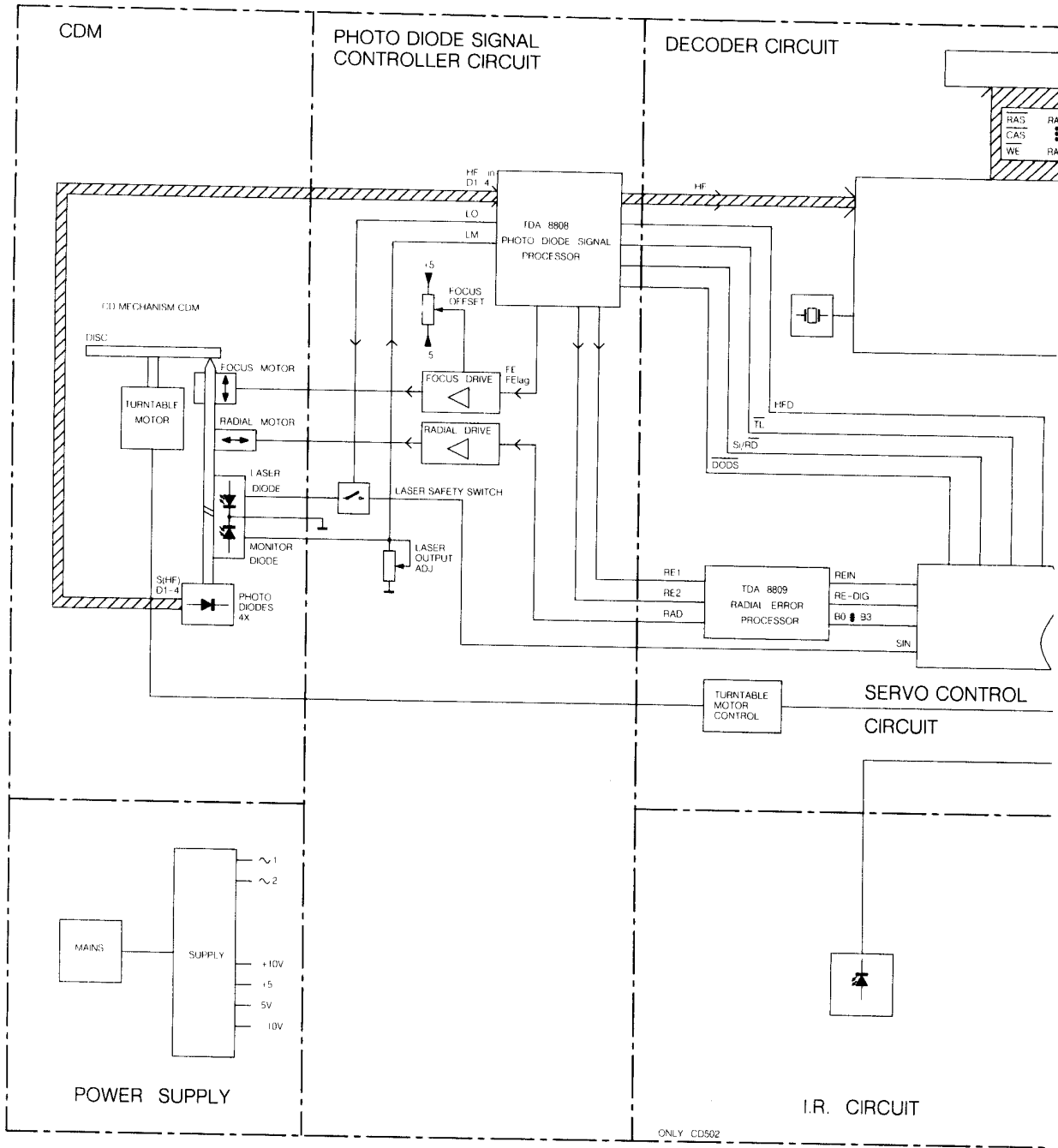
- ERROR 02 Focus error
- ERROR 03 Radial error
- ERROR 04 Disc error: DRD becomes not low
- ERROR 06 Jump error
- ERROR 07 Subcode error
- ERROR 08 TOC error

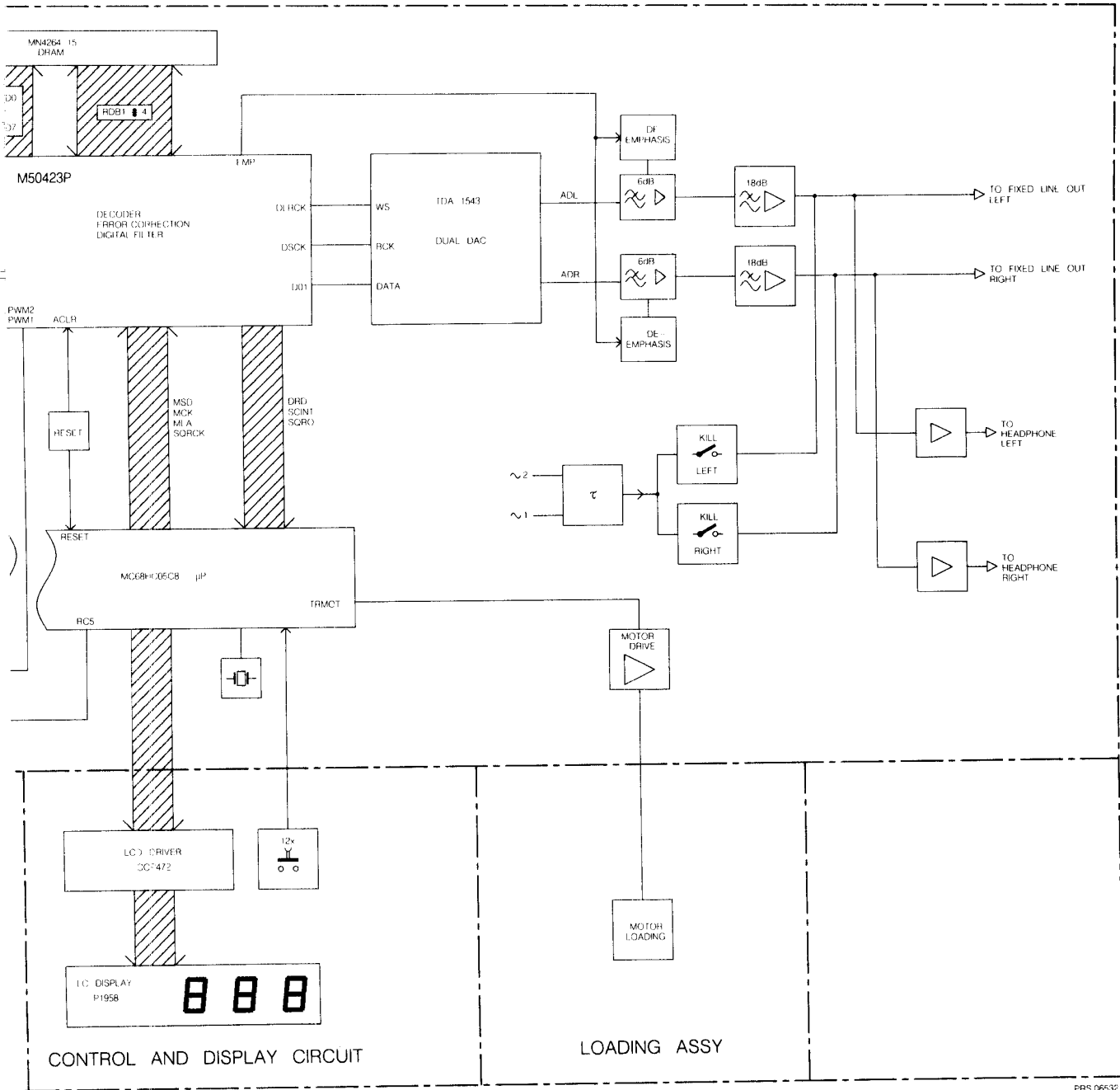
**OPERATING ERRORS**

- ERROR 31 Search time out error
- ERROR 32 Binary search time out error
- ERROR 33 Index not found
- ERROR 34 Relative time not found
- ERROR 35 NEXT/PREVIOUS when scanning LAST/FIRST track
- ERROR 36 Programmed track is not existing on this CD
- ERROR 37 Selected track is not existing on this CD
- ERROR 38 Next at a boarder when repeat is off
- ERROR 39 Previous at a boarder when repeat is off
- ERROR 41 No program
- ERROR 42 Program memory full
- ERROR 43 Track already programmed

ACL	- $\mu$ P interface register clear input	LPF	- PLL loop filter
AGC	- Automatic Gain Control	MCK	- $\mu$ P interface shift clock input
AOL-R	- Analogue output left-right	MLA	- $\mu$ P interface data latch clock input
B0-B3	- Control bits for radial circuit	MSD	- $\mu$ P interface serial data input
BCK	- Bit clock input	PLLH	- PLL on hold output
BEQ	- Equalizer reference current input	PWM	- Disk motor driving output
BGC	- DC and LF gain control reference input	RADO-7	- Address output
BPA-C	- Display backplane A-C	RAD	- Radial drive input
C16M1	- 1/2 divider input	RADout	- output of RE2-RE1 input
CAS	- Column address strobe signal output	RAS	- Row address strobe signal output
Cosc1	- Capacitor wobble oscillator	RDB1-4	- Data input/output
Cosc2	- Capacitor wobble oscillator	RE	- Radial error signal (Amplified RE <sub>2</sub> -RE <sub>1</sub> currents)
CS	- Chip select	RE1	- Radial error signal 1 (summation of amplified currents D <sub>3</sub> and D <sub>4</sub> )
D1-D4	- Photodiode currents	RE2	- Radial error signal 2 (summation of amplified currents D <sub>1</sub> and D <sub>2</sub> )
DASEL1-4	- DAC interface format select	RE dig	- Radial error digital
DATA	- Data input	REin	- Radial error input
DEC	- Decoupling input internal bypass	RE lag	- Radial error signal for LAG network
DET	- HF detector voltage input	Rosc	- Resistor wobble oscillator
DI	- Serial data input	Rwob	- Wobble generator input
DISBL	- Display blank	SA1-SC4	- 12 multiplexed outputs
DISENA-B	- Disenable A-B	Sc	- Starting up capacitor input
DISCLK	- Display clock	SCCK	- Shift clock input for serial subcode data output
DISDAT	- Display data	SCINT	- Interrupt output of subcode Q
DIV4	- Divide by 4 input	SCOE1	- Enable input of subcode T
DLRCK	- Left/right channel clock	SIN	- Tray switch
DO1	- Dual DAC Rch serial data output	Si/RD	- On/off control for laser supply and focus circuit. Ready signal, Starting up procedure successful.
DOBSEL	- Data bit select	SK	- Serial clock input
DODS	- Drop out detector suppression	SQRCK	- Subcode Q register
DRD	- 8/12 cm Disc detection	SQRO	- Subcode Q register output
DSCK	- Data shift clock to DAC	TEST1	- Test control input
EFFK	- EFM frame clock output	TL	- Track loss output signal
EMP	- Emphasis flag output	TLC	- Output from slice level control
EST2	- Error status 2	TTM	- Control voltage for turntable motor
FE	- Focus error signal	Vext+	- Supply connection
FE lag	- Focus error signal for LAG network	Vext-	- Supply connection
FS	- Focus starting current	VLCD	- Supply liquid crystal display
GCHF	- Gain control input of HF amplifier	WE	- Write enable output
GCLF	- Gain control input for AC and LF amplifiers	WS	- Word select input
HF	- HF output for DEMOD	XI	- Crystal oscillator input
HFD	- HF detector output for DEMOD	XO	- Crystal oscillator output
HF-out	- HF amplifier and equalizer voltage output		
IREF	- Current reference		
KBSCO-5	- Keyboard scanning 0-5		
LM	- Laser monitor diode input		
LO	- Laser amplifier current output		

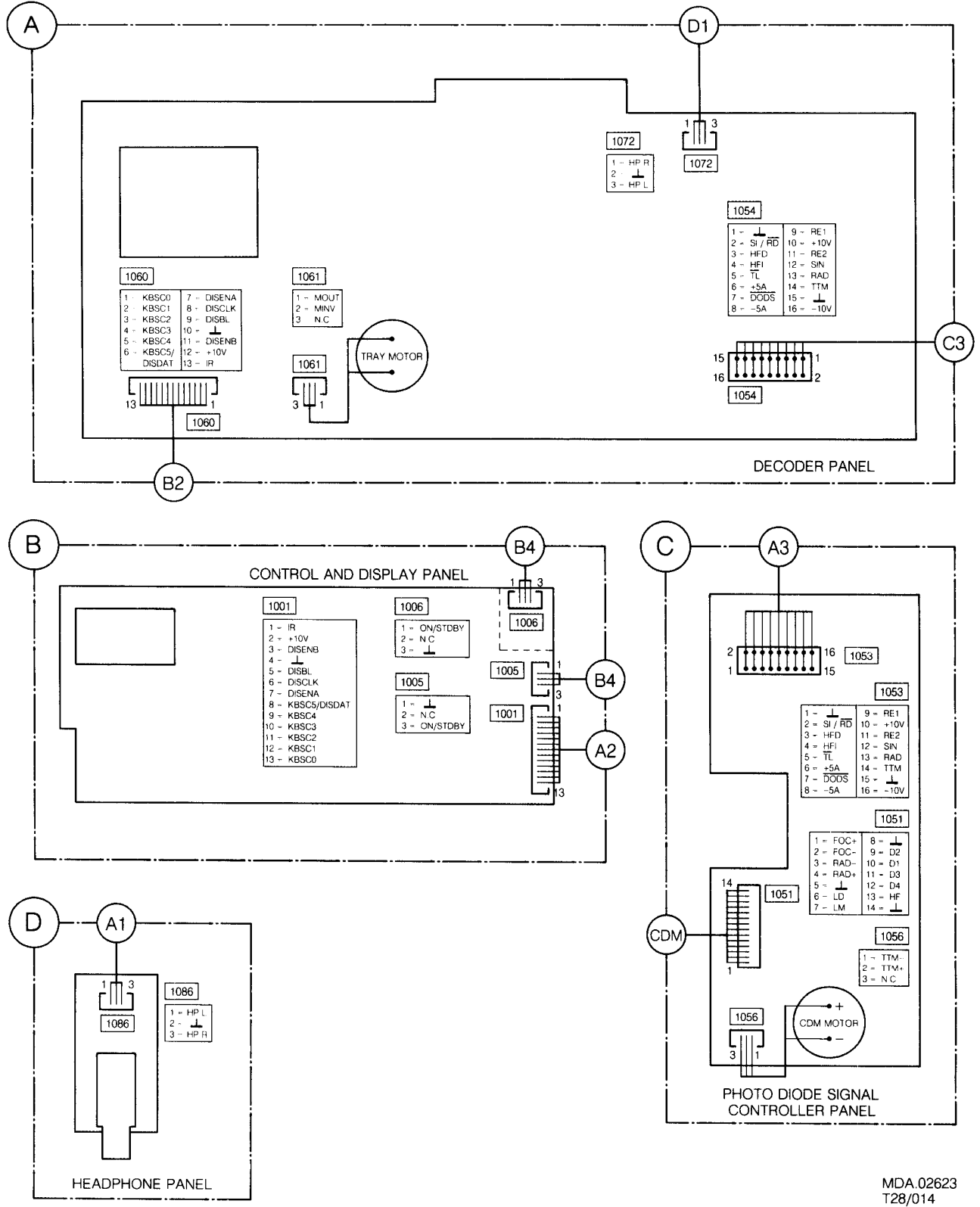






PRS 06532  
1 08 014

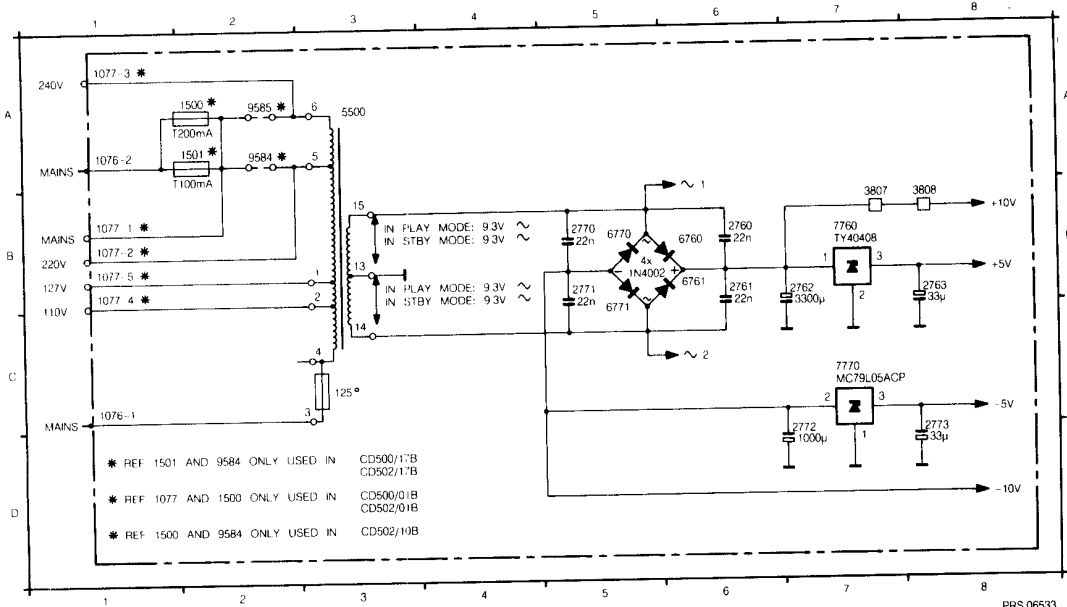
WIRING DIAGRAM



MDA.02623  
T28/014

**POWER SUPPLY**

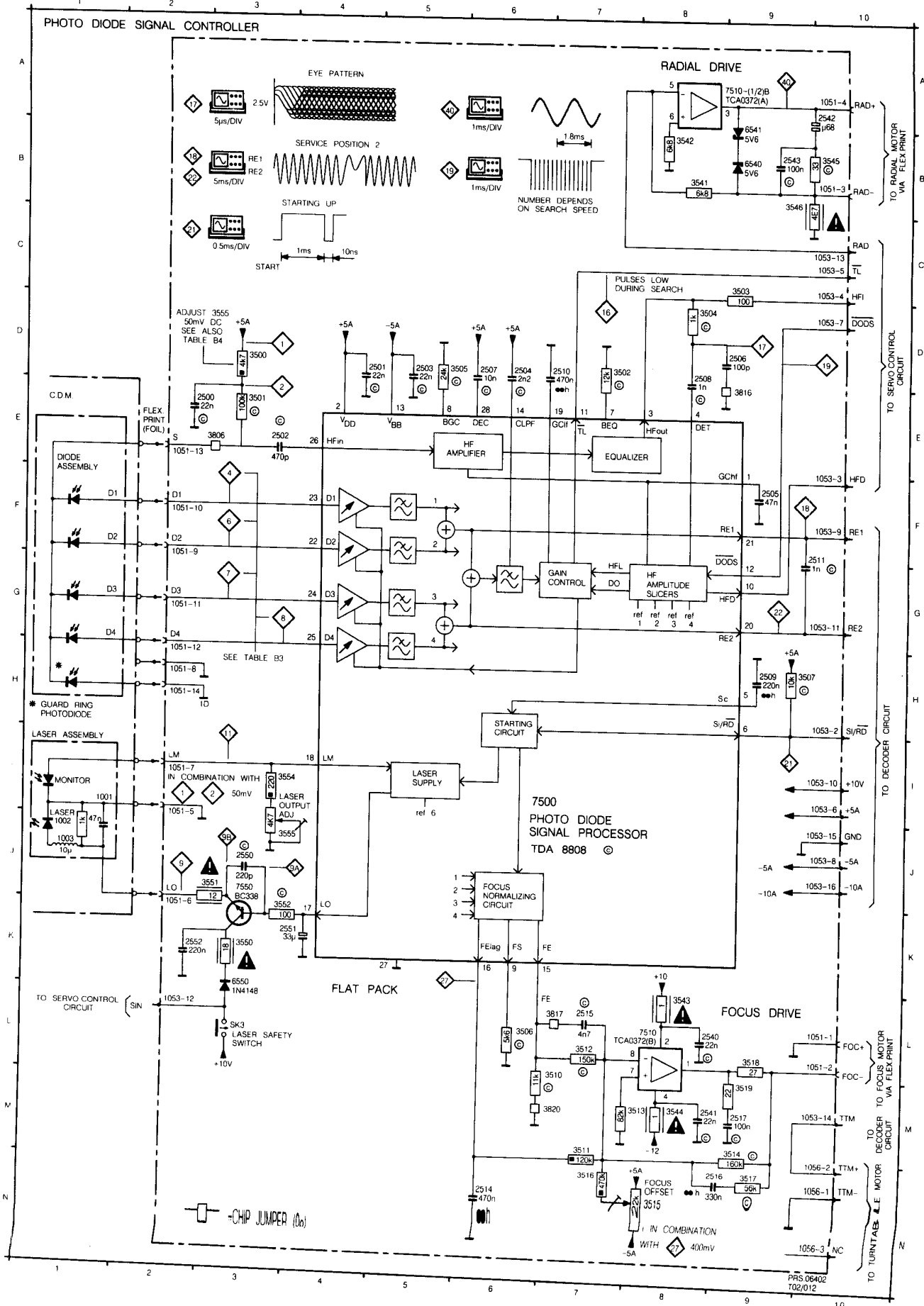
1500 A2	2761 B6	2770 B5	2773 D8	5500 A3	6770 B5	7770 C7
1501 A2	2762 B7	2771 B5	3807 B7	6760 B6	6771 C5	9584 A2
2760 B6	2763 B8	2772 D7	3808 B8	6761 B6	7760 B7	9585 A2

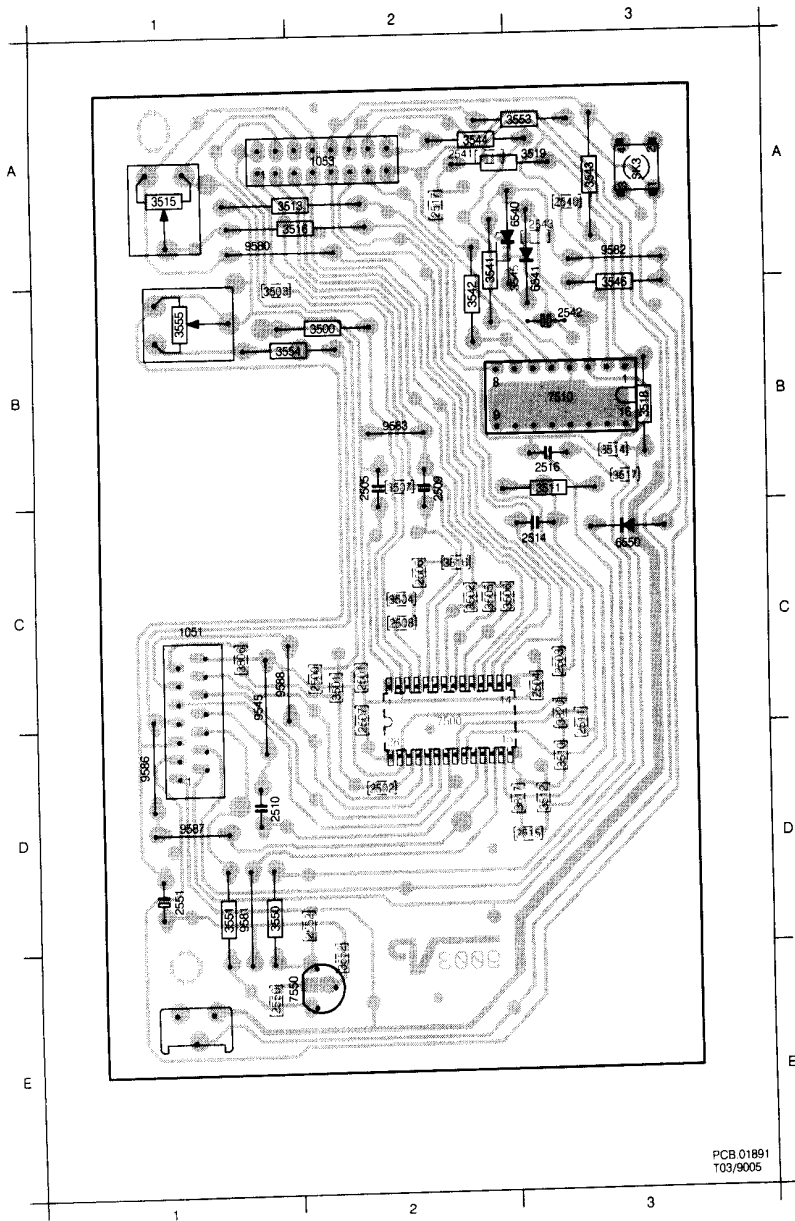


PRS 06533  
T-08 014

PHOTO DIODE SIGNAL CONTROLLER

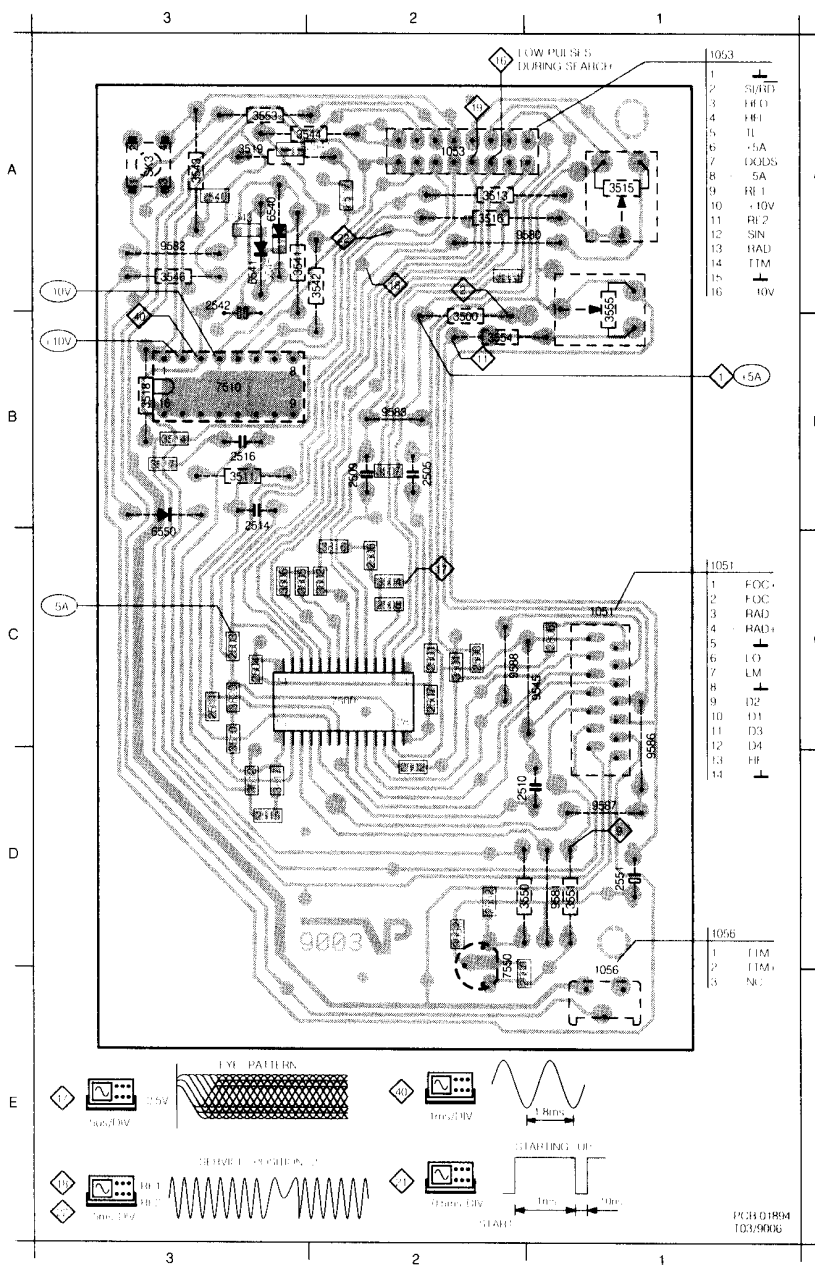
SK3 L3	2503 D5	2510 D6	2541 M8	3501 E3	3510 M7	3517 N9	3545 B10	3806 E3	7500 I6
1001 I1	2504 D6	2511 F9	2542 A10	3502 D7	3511 M7	3518 L9	3546 B9	3816 E9	7510 A8
1002 J1	2505 F9	2514 N6	2543 B9	3503 C9	3512 L7	3519 M9	3550 K3	3817 L7	7510 L8
1003 J1	2506 D9	2515 L7	2550 J3	3504 D8	3513 M7	3541 B8	3551 J3	3820 M7	7550 J3
2500 E2	2507 D6	2516 N9	2551 K3	3505 D5	3514 M9	3542 B8	3552 K3	6540 B9	
2501 D4	2508 D8	2517 M9	2552 K2	3506 L6	3515 N8	3543 L8	3554 J3	6541 B9	
2502 E3	2509 H9	2540 L8	2550 D3	3507 H9	3516 N7	3544 M8	3555 J4	6550 L3	



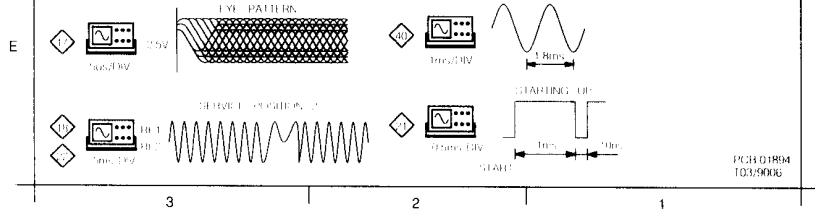


- SK3 A3
- 1051 C1
- 1053 A2
- 2500 C2
- 2501 C2
- 2502 D2
- 2503 C3
- 2504 C3
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- 2506 C2
- 2507 D2
- 2508 C2
- 2509 B2
- 2510 D1
- 2511 D3
- 2514 C3
- 2515 D3
- 2516 B3
- 2517 A2
- 2540 A3
- 2541 A2
- 2542 B3
- 2543 A3
- 2550 E1
- 2551 D1
- 2552 D2
- 3500 B2
- 3501 C2
- 3502 C2
- 3503 B1
- 3504 C2
- 3505 C2
- 3506 C3
- 3507 B2
- 3510 D3
- 3511 B3
- 3512 D3
- 3513 A1
- 3514 B3
- 3515 A1
- 3516 A1
- 3517 B3
- 3518 B3
- 3519 A3
- 3541 B2
- 3542 B2
- 3543 A3
- 3544 A2
- 3545 B3
- 3546 B3
- 3550 D1
- 3551 D1
- 3552 E2
- 3553 A3
- 3554 B1
- 3555 B1
- 3806 C1
- 3816 C2
- 3817 D3
- 3820 D3
- 6540 A3
- 6541 B3
- 6550 C3
- 7500 D2
- 7510 B3
- 7550 E1
- 9585 C1
- 9588 A1
- 9581 D1
- 9582 A3
- 9583 B2
- 9586 D1
- 9587 D1
- 9588 C1

PCB 01891  
103/9005

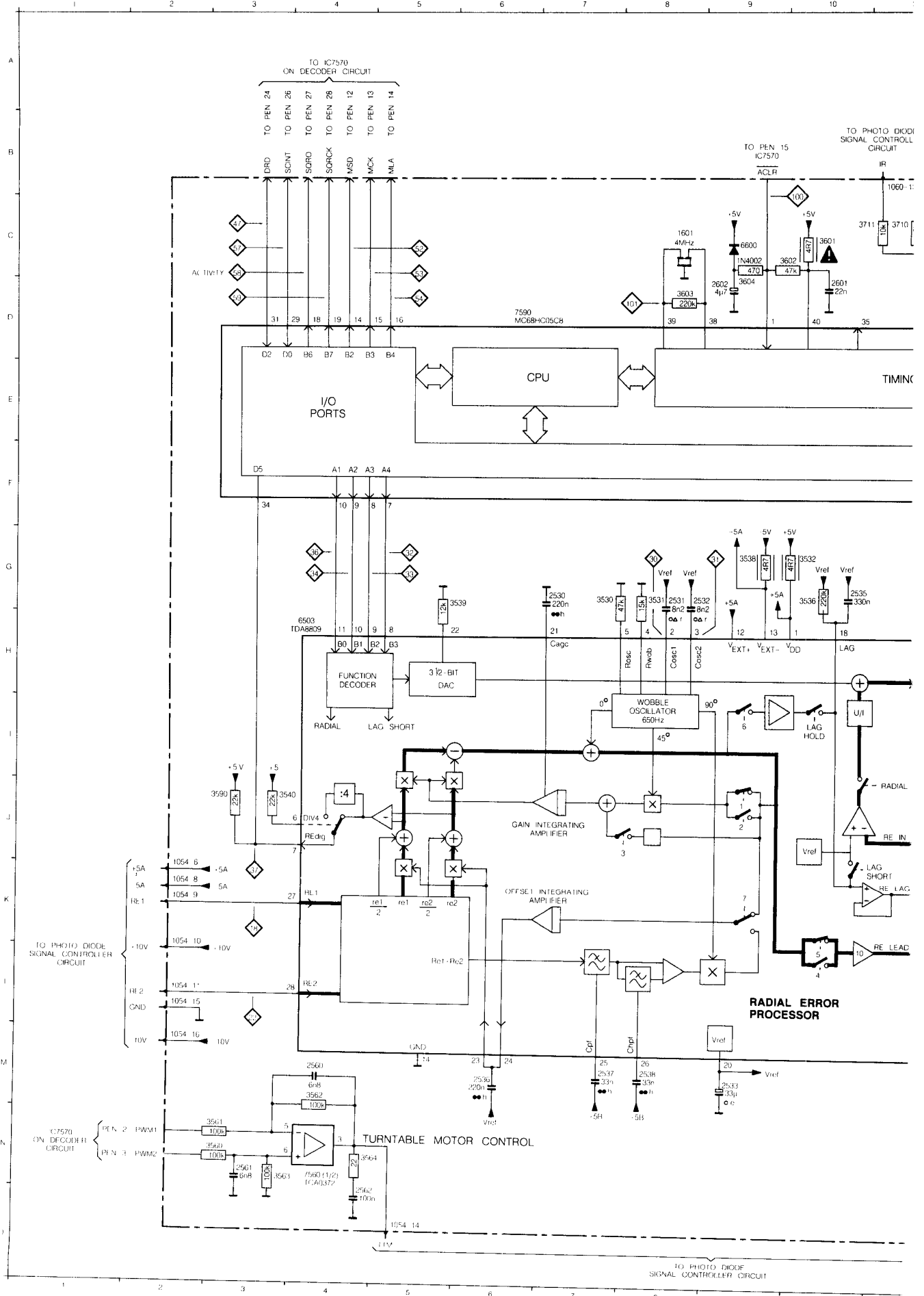


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2	FRD	C1	1051
3	FR1	A2	1053
4	IL	E1	1056
5	-5A	C2	2500
6	DOODS	D2	2501
7	5A	C3	2502
8	RE 1	B3	2503
9	-10V	C2	2504
10	RE 2	B2	2505
11	SIN	C2	2506
12	HAD	C3	2507
13	TTM	C2	2508
14	10V	B2	2509
15		D3	2510
16		C3	2511
		B3	2514
		B3	2515
		A2	2516
		A3	2517
		A2	2540
		A2	2541
		A3	2542
		A3	2543
		E2	2550
		D1	2551
		D2	2552
		B2	3500
		C2	3501
		C2	3502
		A2	3503
		C2	3504
		C3	3505
		C3	3506
		B2	3507
		D3	3510
		B3	3511
		D3	3512
		A2	3513
		B3	3514
		A1	3515
		A2	3516
		B3	3517
		B3	3518
		A3	3519
		A3	3541
		A2	3542
		A3	3543
		A2	3544
		A3	3545
		A3	3546
		D2	3550
		D1	3551
		D2	3552
		A3	3553
		B2	3554
		C1	3555
		B1	3806
		C2	3816
		D3	3817
		C3	3820
		A3	6540
		A3	6541
		C3	6550
		C2	7500
		B3	7510
		E2	7550
		C1	9545
		A1	9580
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		A3	9582
		B2	9583
		D1	9586
		D1	9587
		C2	9588

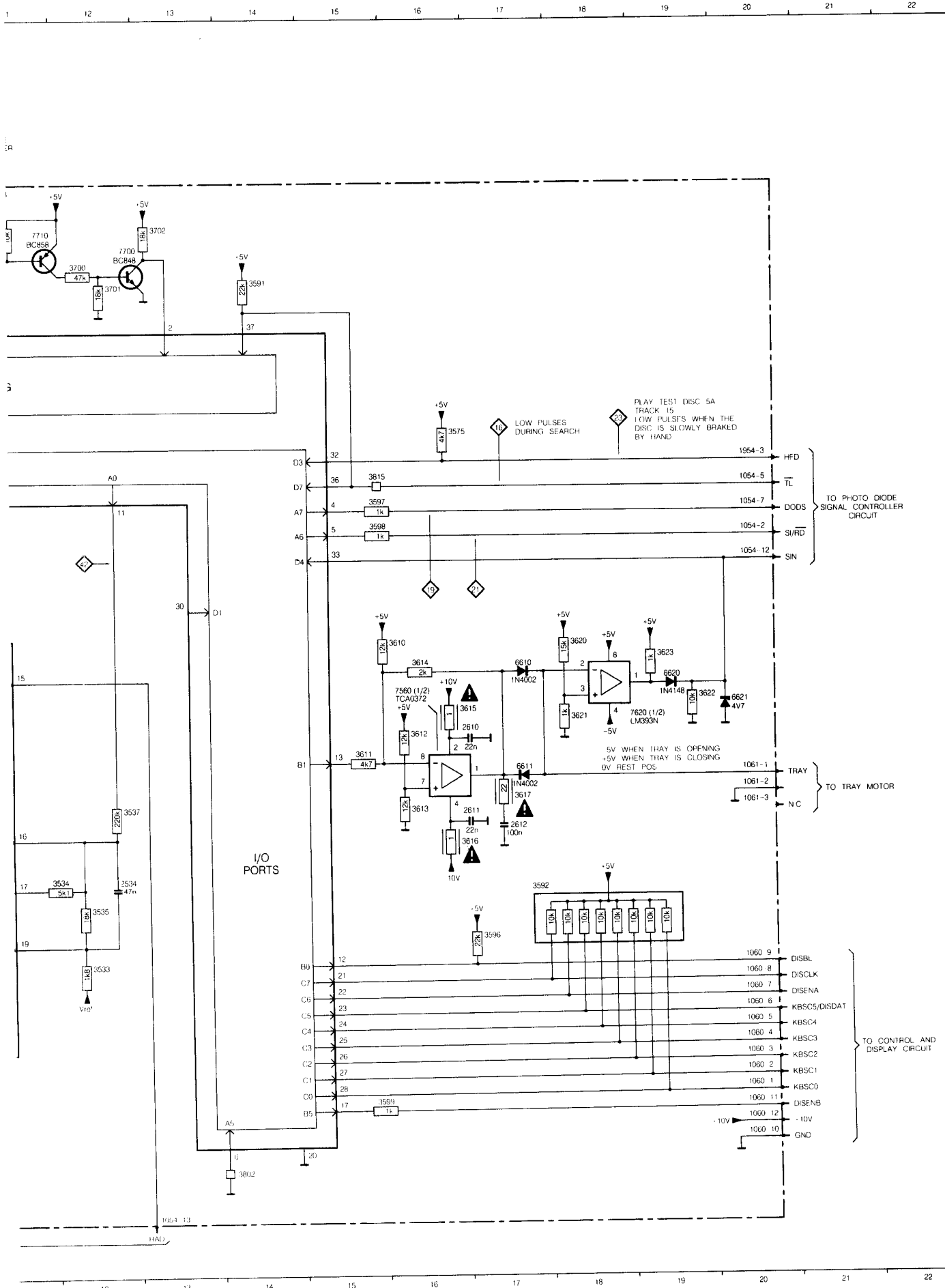


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103/9906

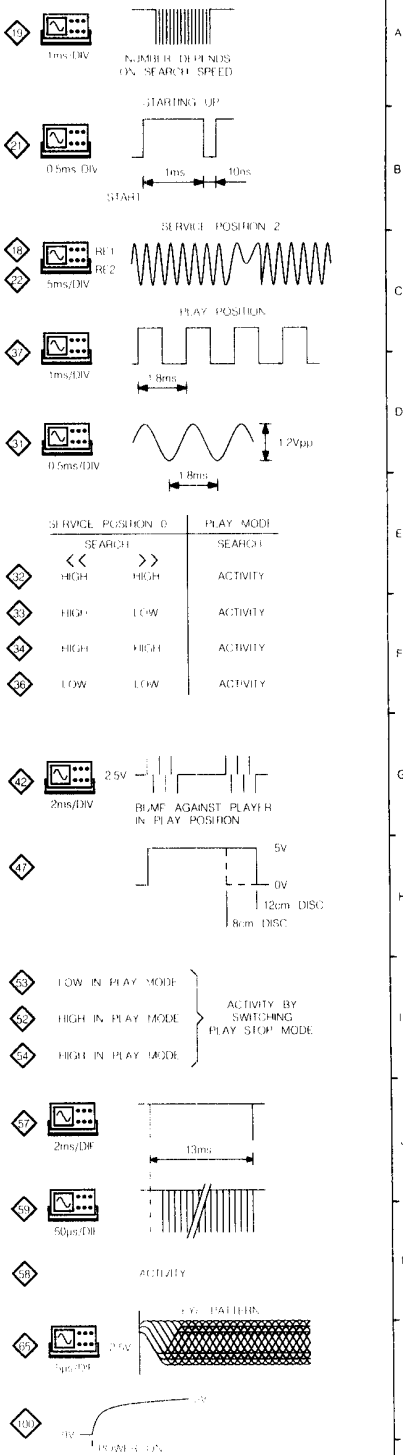
SERVO CONTROL







23 24 25

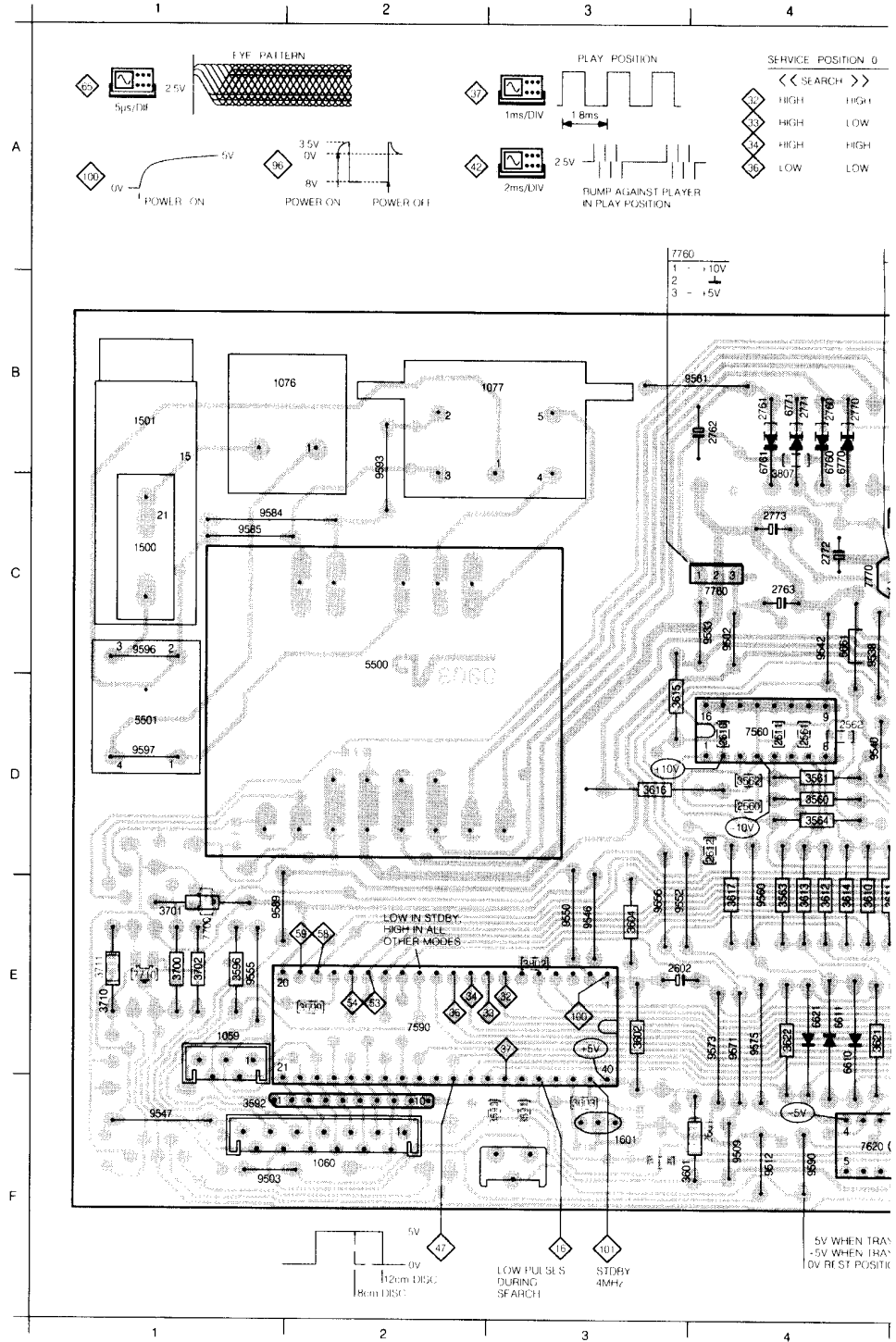


- 1601 C8
- 2530 G7
- 2531 G8
- 2532 G8
- 2533 M9
- 2534 K12
- 2535 G10
- 2536 M6
- 2537 M7
- 2538 M8
- 2560 M4
- 2561 N3
- 2562 O4
- 2601 D10
- 2602 D9
- 2610 I17
- 2611 J17
- 2612 J17
- 3530 G7
- 3531 G8
- 3532 G10
- 3533 L12
- 3534 K12
- 3535 K12
- 3536 G10
- 3537 J12
- 3538 G9
- 3539 G5
- 3540 J3
- 3560 N3
- 3561 N3
- 3562 M4
- 3563 N3
- 3564 N4
- 3575 E16
- 3590 J3
- 3591 D14
- 3592 K17
- 3596 K17
- 3597 F15
- 3598 F15
- 3599 M15
- 3601 C10
- 3602 C9
- 3603 D8
- 3604 D9
- 3610 H16
- 3611 I15
- 3612 I16
- 3613 J16
- 3614 H16
- 3615 I16
- 3616 J16
- 3617 J17
- 3620 H18
- 3621 I18
- 3622 I19
- 3623 H19
- 3700 C12
- 3701 D12
- 3702 C13
- 3710 C11
- 3711 C10
- 3802 N14
- 3815 F15
- 6503 H4
- 6600 C9
- 6610 H17
- 6611 I17
- 6620 H19
- 6621 I20
- 7560 H18
- 7560 N4
- 7590 D6
- 7620 I19
- 7700 C12
- 7710 C11

23 24 25

### SERVO CONTROL AND DECODER PANEL COMPONENT SIDE

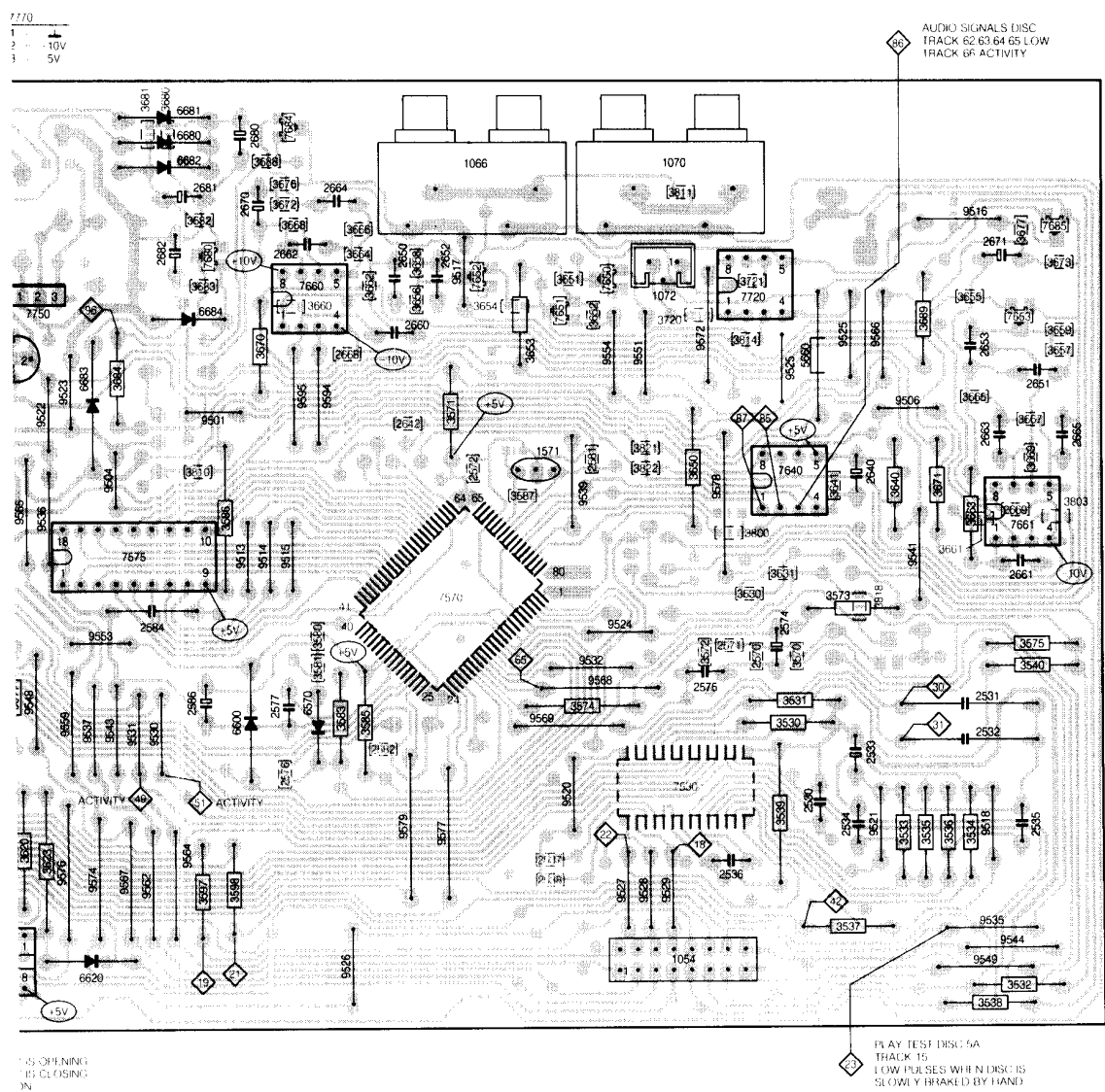
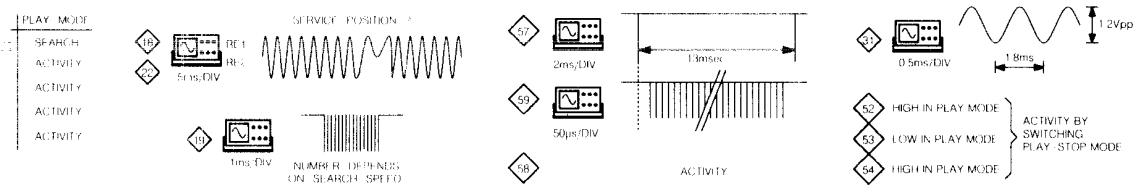
1054 F8	2534 E8	2582 E6	2661 D9	2770 B4	3561 D4	3590 F3	3615 D3	3655 C9	3671 D9	371
1059 E1	2535 E9	2584 D5	2662 C6	2771 B4	3562 D4	3591 F3	3616 D3	3656 C6	3672 B6	372
1060 F2	2536 E8	2586 E5	2663 C9	2772 C4	3563 E4	3592 F1	3617 E4	3657 C9	3673 C9	372
1066 B7	2537 E7	2601 F4	2664 B6	2773 C4	3564 D4	3596 E1	3620 E5	3658 C6	3676 B6	380
1070 B8	2538 E7	2602 E3	2665 C9	2773 C4	3570 D8	3597 F5	3621 E4	3659 C9	3677 B9	380
1072 C7	2560 D4	2610 D4	2668 C6	2774 C4	3571 C7	3598 F6	3622 E4	3660 C6	3680 B5	380
1076 B1	2561 O4	2611 O4	2669 D9	2775 C4	3572 D8	3599 E2	3623 E5	3661 D9	3681 B5	380
1077 B2	2562 O4	2612 O4	2670 B6	2776 C4	3573 D8	3601 F3	3630 D8	3662 C6	3682 B5	381
1500 C1	2570 D8	2640 D9	2671 B9	2777 C4	3574 E7	3602 E3	3631 D8	3663 D9	3683 C5	381
1501 B1	2571 D8	2642 C6	2680 B6	2778 C4	3575 D9	3603 F3	3640 D9	3664 C6	3684 C5	381
1571 C7	2572 D7	2650 C6	2681 B5	2779 C4	3576 D9	3604 E3	3641 D8	3665 C9	3688 B6	381
1601 F3	2574 D8	2651 C9	2682 C5	2780 C4	3577 F8	3610 E4	3650 D8	3666 B6	3689 C9	381
2530 E8	2575 E8	2652 C7	2760 B4	2781 C4	3578 F9	3611 E4	3651 C7	3667 C9	3700 E1	382
2531 E9	2576 E6	2653 C9	2761 B4	2782 C4	3579 E8	3612 E4	3652 C7	3668 B6	3701 E1	382
2532 E9	2577 E6	2660 C6	2762 B4	2783 C4	3580 D9	3613 E4	3653 C7	3669 D9	3702 E1	550
2533 E9	2581 D7		2763 C4	2784 C4	3587 D7	3614 E4	3654 C7	3670 D9	3710 E1	550



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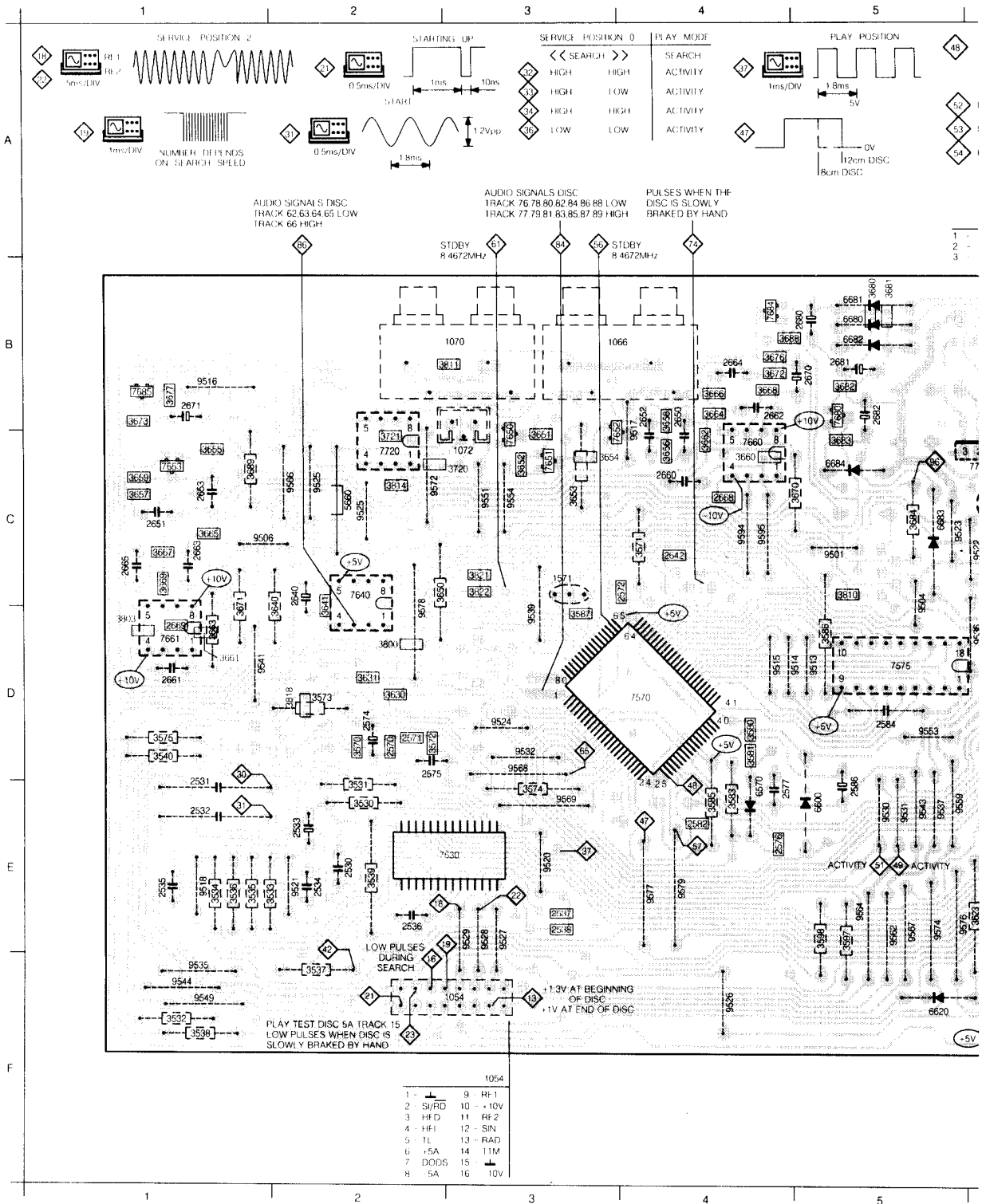
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1	C8	6570	E6	7560	D4	7710	F1	9517	C7	9533	C4	9551	C7	9571	E4	9596	C1
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2	E3	6610	F4	7575	D5	7750	C5	9520	E7	9536	D5	9553	D5	9573	E4		
3	D9	6611	E4	7590	E2	7760	C4	9521	E9	9537	E5	9554	C7	9574	F5		
7	C4	6620	F4	7620	F4	7770	C4	9522	C5	9538	C4	9555	E1	9575	E4		
0	D5	6621	E4	7640	D8	9501	C5	9523	C5	9539	D7	9556	E3	9576	E5		
1	B8	6680	B5	7650	C7	9502	C4	9524	D7	9540	D4	9559	E5	9577	E6		
4	C8	6681	B5	7651	C7	9503	F1	9525	C8	9541	D9	9560	E4	9578	D8		
5	F3	6682	B5	7652	C7	9504	D5	9525	C8	9542	C4	9561	B3	9579	E6		
8	D9	6683	C5	7653	C9	9506	C9	9526	F6	9543	E5	9562	F5	9584	C1		
1	C7	6684	C5	7660	C6	9509	F4	9527	F7	9544	F9	9564	E5	9585	C1		
2	D7	6760	C4	7661	D9	9512	F4	9528	F7	9546	E3	9565	D4	9589	F1		
0	C2	6761	C4	7680	C5	9515	D6	9529	F8	9547	F1	9566	C9	9590	F4		
1	D1	6770	C4	7684	B6	9514	D6	9530	E5	9548	E5	9567	F5	9593	C2		

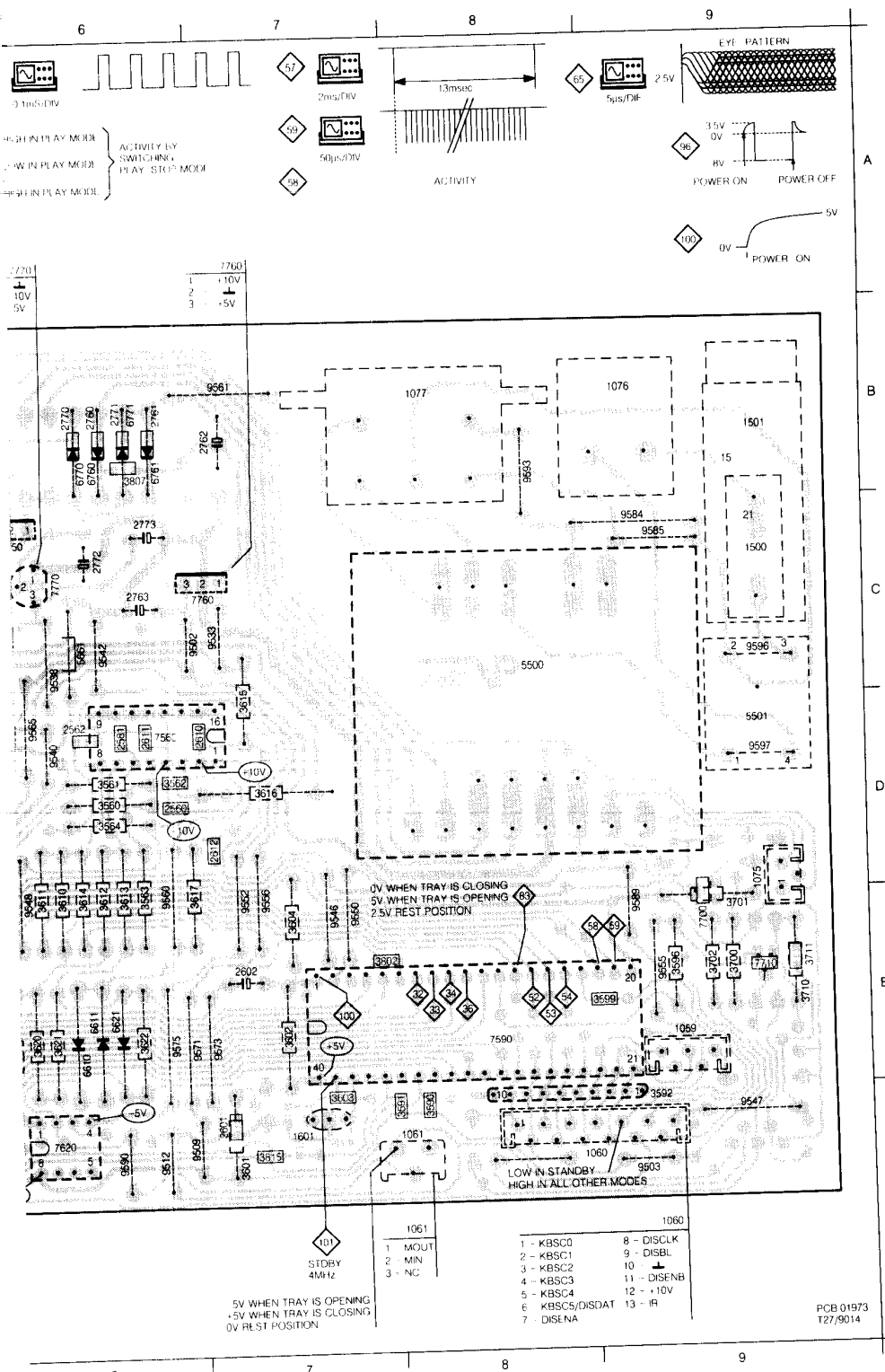
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5 6 7 8 9

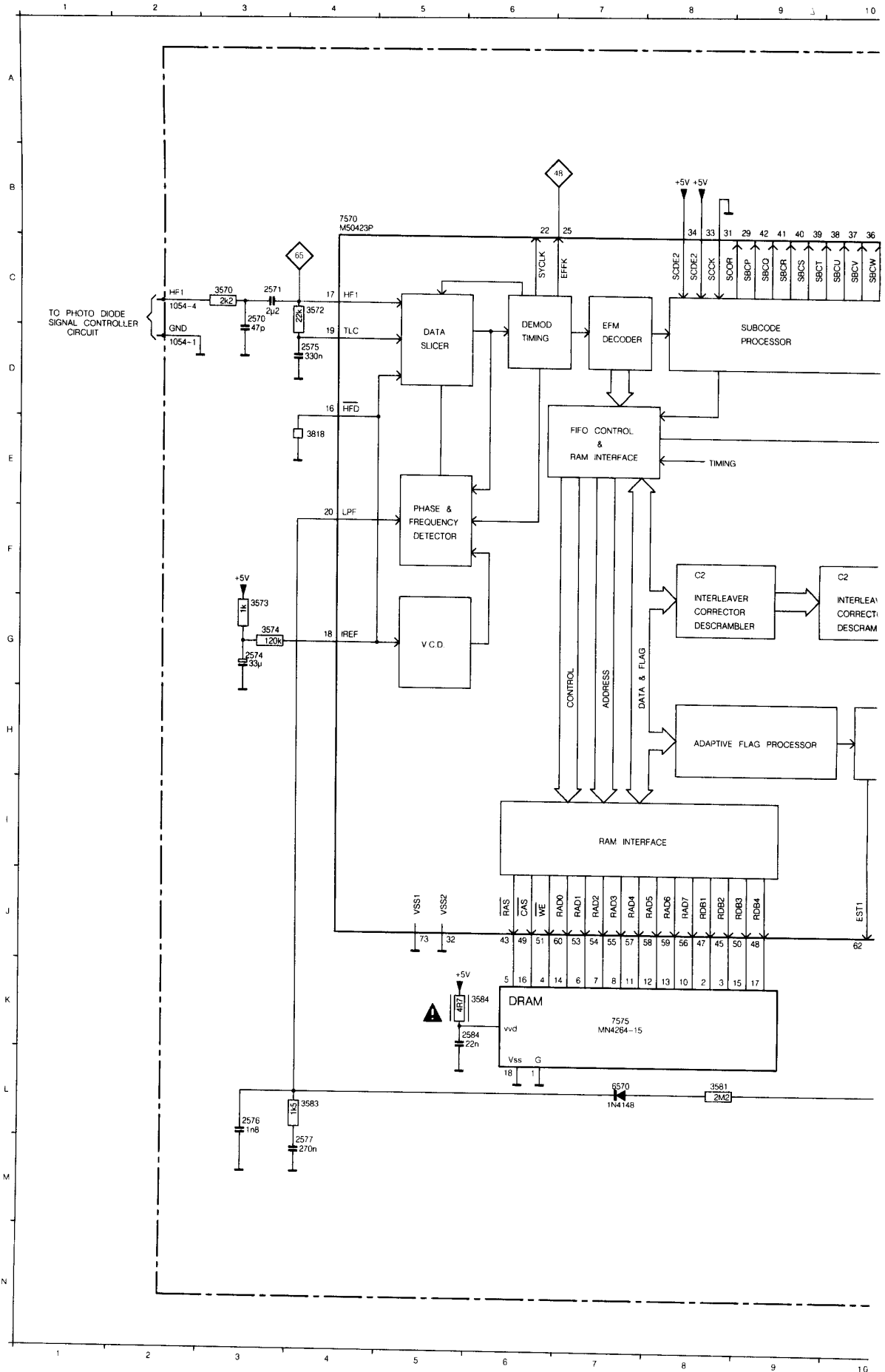
SERVO CONTROL AND DECODER PANEL SOLDER SIDE

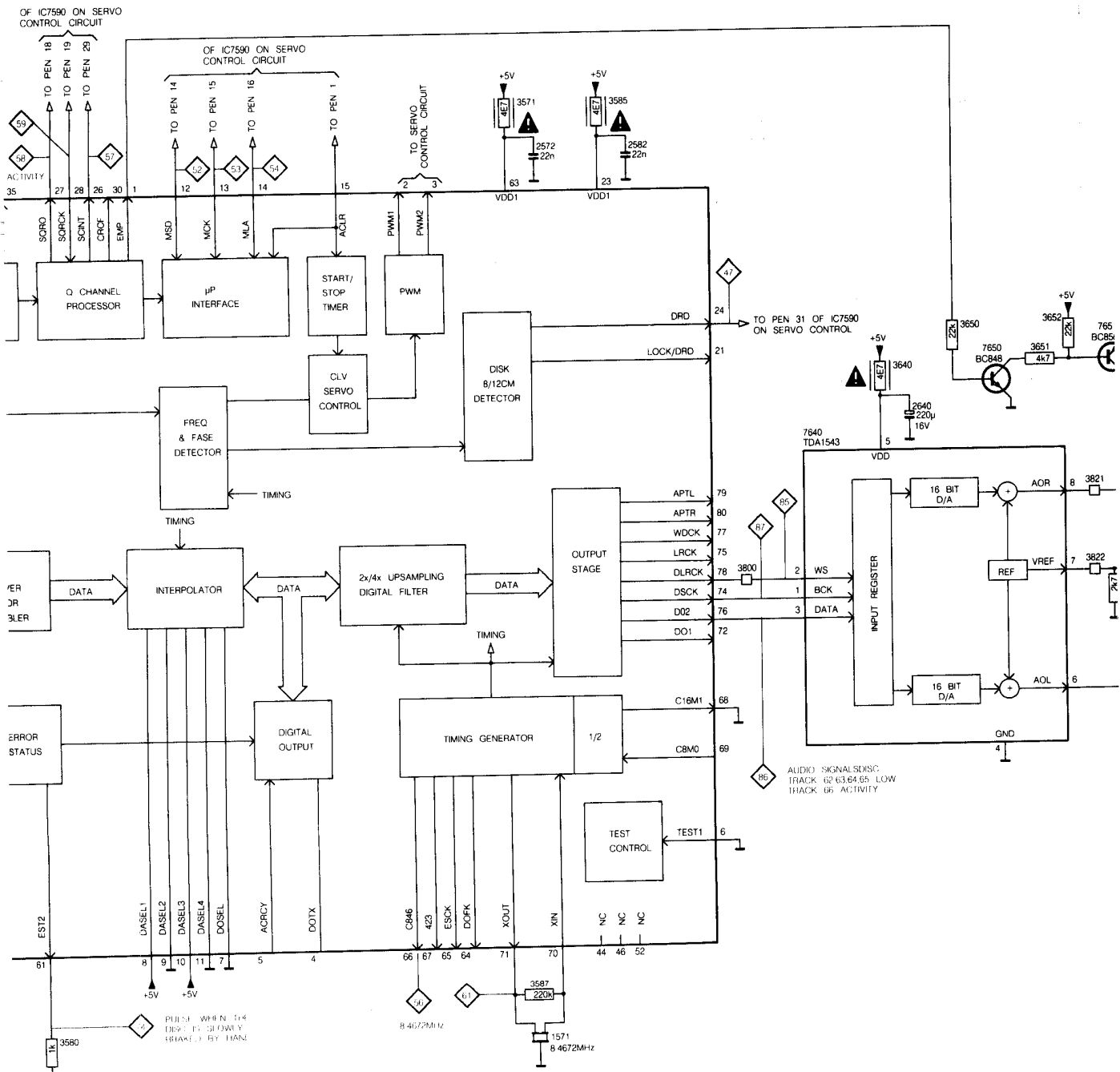




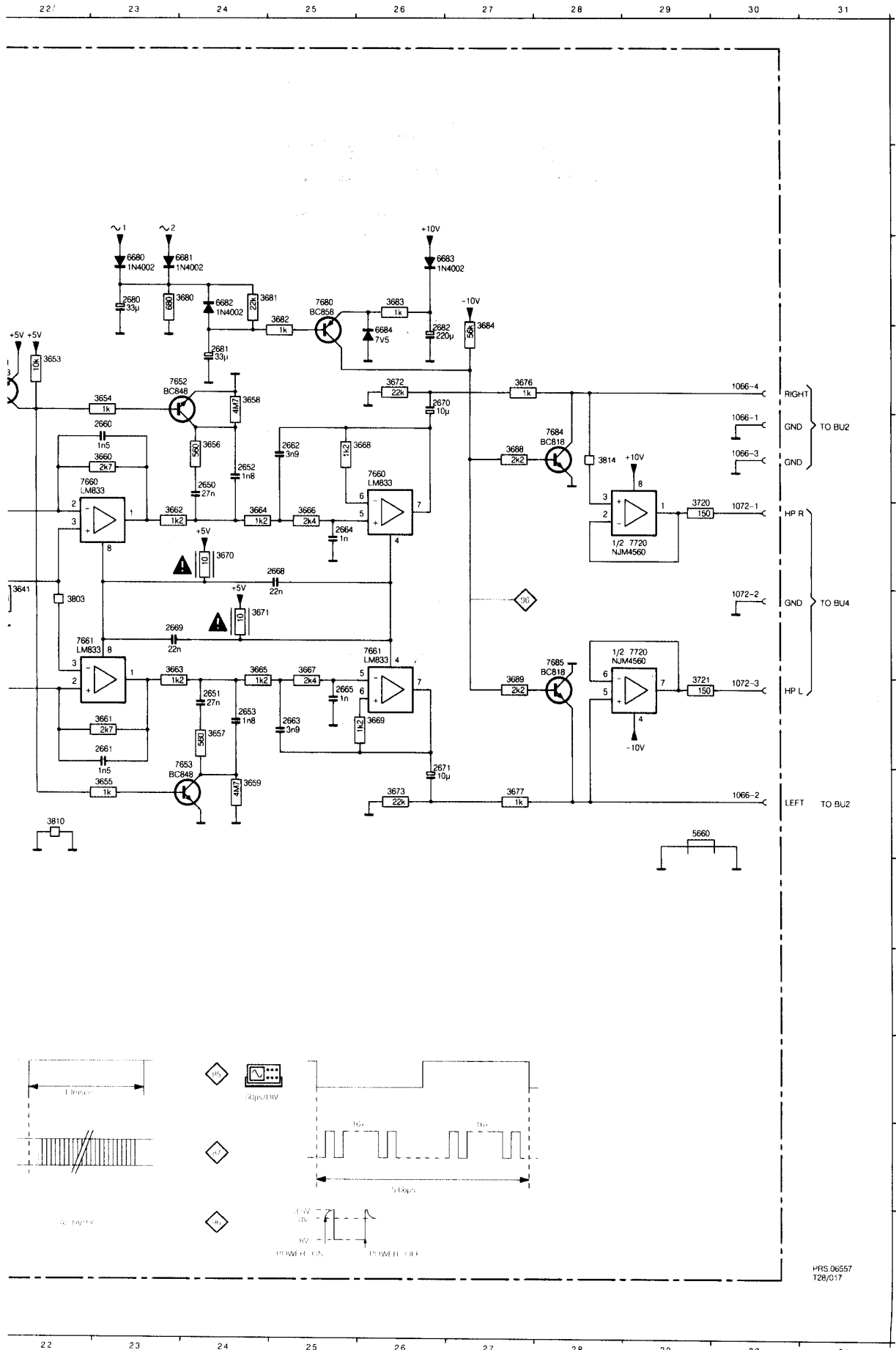
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1059	E9	3616	D7	9517	C4
1060	F8	3617	E6	9518	E1
1061	F7	3620	E6	9520	E3
1066	B3	3621	E6	9521	E2
1070	B3	3622	E6	9522	C6
1072	C3	3623	E6	9523	C5
1075	E9	3630	D2	9524	D3
1076	B9	3631	D2	9525	C2
1077	B8	3640	D2	9525	C2
1500	C9	3641	D2	9526	F4
1501	B9	3650	C2	9527	E3
1571	C3	3651	C3	9528	E3
1601	F7	3652	C3	9529	E3
2530	E2	3653	C3	9530	E5
2531	E1	3654	C3	9531	E5
2532	E1	3655	C1	9532	D3
2533	E2	3656	C4	9533	C7
2534	E2	3657	C1	9535	F1
2535	E1	3658	B4	9536	D6
2536	E2	3659	C1	9537	E5
2537	E3	3660	C4	9538	C6
2538	E3	3661	D1	9539	C3
2560	D6	3662	C4	9540	D6
2561	D6	3663	D1	9541	D1
2562	D6	3664	B4	9542	C6
2570	D2	3665	C1	9543	E5
2571	D2	3666	B4	9544	F1
2572	C4	3667	C1	9546	E7
2574	D2	3668	B4	9547	F9
2575	D2	3669	C1	9548	E6
2576	E4	3670	C5	9549	F1
2577	E4	3671	D1	9550	E7
2582	E4	3672	B4	9551	C3
2584	D6	3673	B1	9552	E7
2586	E5	3676	B4	9553	D5
2601	F7	3677	B1	9554	C3
2602	E7	3680	B5	9555	E9
2610	D7	3681	B5	9556	E7
2611	D6	3682	B5	9559	E5
2612	D7	3683	C5	9560	E6
2612	C2	3684	C5	9561	B7
2642	C4	3688	B4	9562	E5
2650	B4	3689	C1	9564	E5
2651	C1	3700	E9	9565	D6
2652	B4	3701	E9	9566	C2
2653	C1	3702	E9	9567	E5
2660	C4	3710	E9	9568	D3
2661	D1	3711	E9	9569	E3
2662	B4	3720	C3	9571	E6
2663	C1	3721	C2	9572	C2
2664	B4	3800	D2	9573	E7
2665	C1	3802	E7	9574	E5
2668	C4	3803	D1	9575	E6
2669	D1	3807	B6	9576	E5
2670	B5	3810	C5	9577	D2
2671	B1	3811	D2	9578	D2
2680	B5	3814	C2	9579	F4
2681	B5	3815	F7	9584	C9
2682	B5	3818	D2	9585	C9
2760	B6	3821	C3	9589	E9
2761	B6	3822	C3	9590	E9
2762	B7	5500	C8	9593	B8
2763	C6	5501	D9	9594	C4
2770	B6	5660	C2	9595	C4
2771	B6	5661	C6	9596	C9
2772	C6	6570	E4	9597	D9
2773	C6	6600	E5		
3530	E2	6610	E6		
3531	E2	6611	E6		
3532	F1	6620	F5		
3533	E2	6621	E6		
3534	E1	6680	B5		
3535	E1	6681	B5		
3536	F1	6682	B5		
3537	F2	6683	C5		
3538	F1	6684	C5		
3539	E2	6760	B6		
3540	D1	6761	B6		
3560	D6	6770	B6		
3561	D6	6771	B6		
3562	D6	7530	E2		
3563	E6	7560	D6		
3564	D6	7570	D4		
3570	D2	7575	D5		
3571	C4	7590	E8		
3572	D2	7620	F6		
3573	D2	7640	C2		
3574	E3	7650	C3		
3575	D1	7651	C3		
3580	D4	7652	C4		
3581	D4	7653	C1		
3583	E4	7660	C4		
3585	E4	7661	D1		
3586	D5	7680	B5		
3587	D3	7684	B4		
3590	F8	7685	B1		
3591	F8	7700	E9		
3592	F9	7710	E9		
3596	E9	7720	C2		
3597	E5	7750	C6		
3598	E5	7760	C6		
3599	E9	7770	C6		
3601	F7	9501	C5		
3602	E7	9502	C7		
3603	F7	9503	F9		
3604	E7	9504	D5		
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3611	E6	9509	F6		
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DECODER





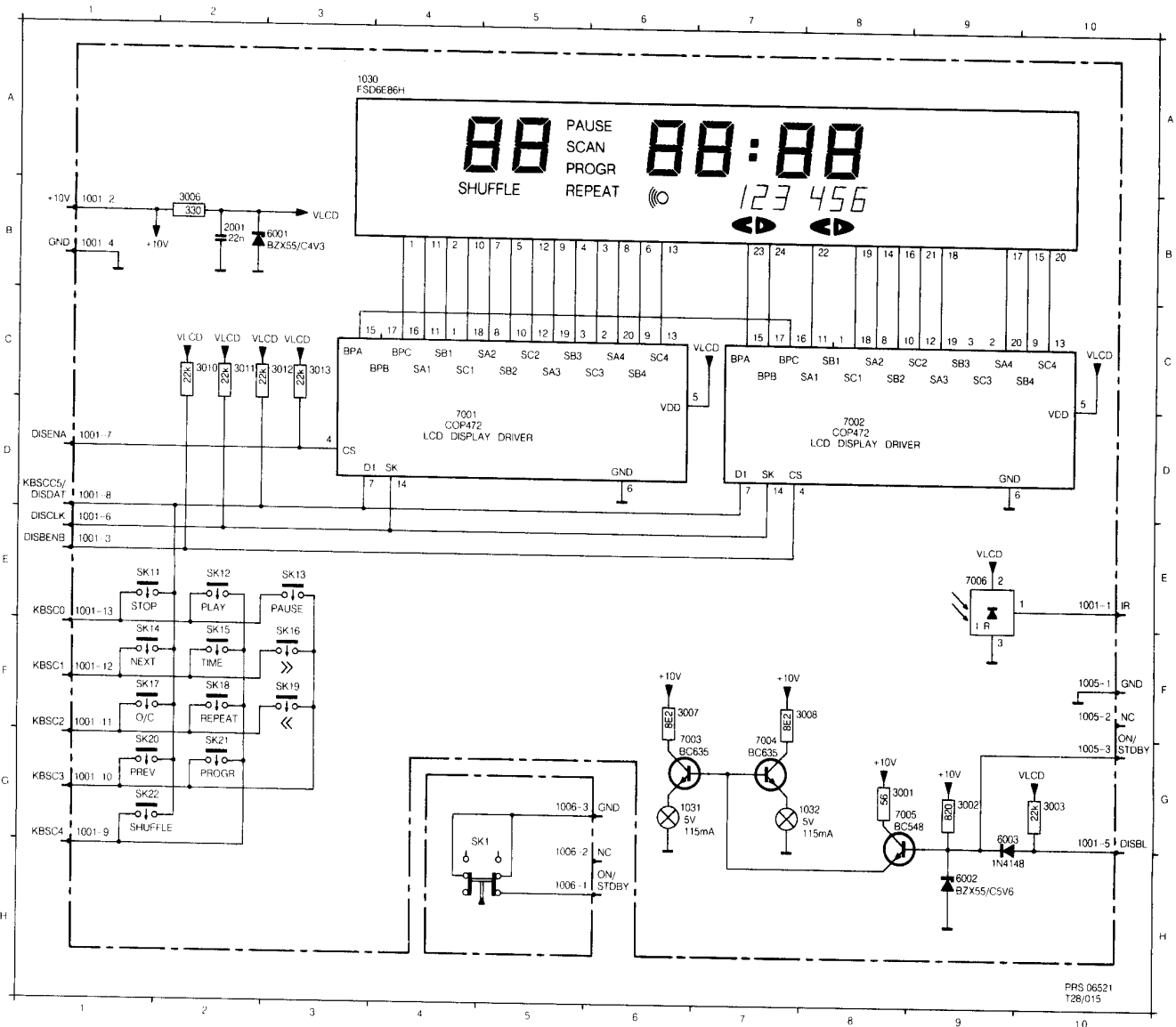




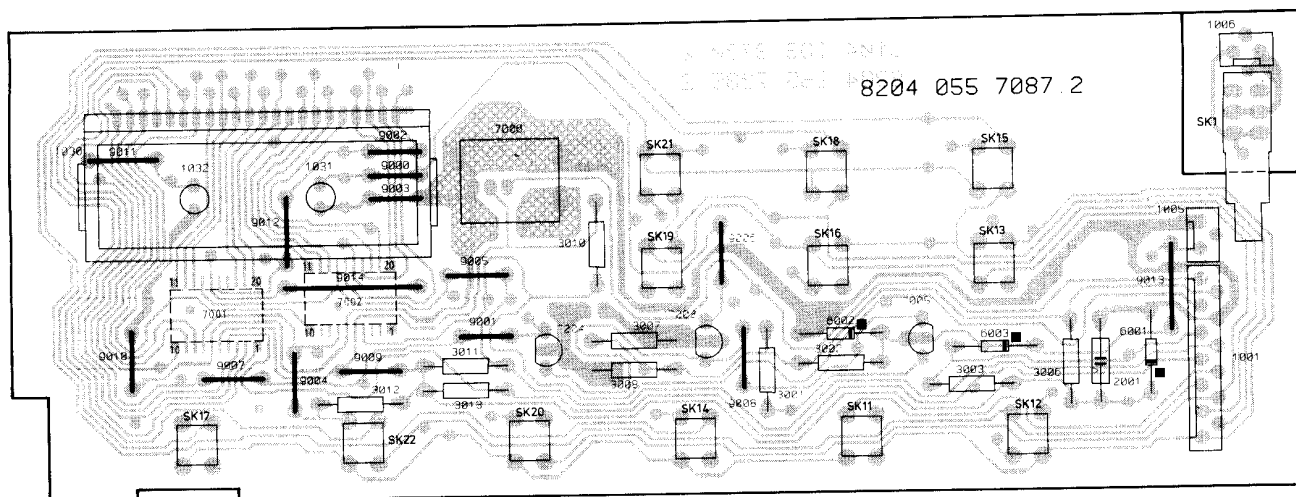
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- 2640 E19
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- 2651 H24
- 2652 E24
- 2653 H24
- 2660 E23
- 2661 H23
- 2662 E23
- 2663 H25
- 2664 F25
- 2665 H25
- 2668 F25
- 2669 G23
- 2670 D26
- 2671 I 26
- 2680 C23
- 2681 D24
- 2682 D26
- 3570 C3
- 3571 B15
- 3572 C4
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- 3580 K11
- 3581 L8
- 3583 L4
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- 3585 B16
- 3587 K16
- 3640 D19
- 3641 G22
- 3650 D20
- 3651 D21
- 3652 D21
- 3653 D22
- 3654 D23
- 3655 I 23
- 3656 E24
- 3657 H24
- 3658 D24
- 3659 I 24
- 3660 H23
- 3661 H23
- 3662 F23
- 3663 G23
- 3664 F24
- 3665 G24
- 3666 F25
- 3667 G25
- 3668 E25
- 3669 H26
- 3670 I 24
- 3671 G24
- 3672 D26
- 3673 I 26
- 3676 D27
- 3677 I 27
- 3680 C23
- 3681 C24
- 3682 C25
- 3683 C26
- 3684 D27
- 3688 E27
- 3689 H27
- 3720 F29
- 3721 H29
- 3800 F18
- 3803 G22
- 3810 I 22
- 3814 E28
- 3818 E4
- 3821 F21
- 3822 F21
- 5660 I 29
- 6570 L7
- 6680 C23
- 6681 C23
- 6682 C24
- 6683 C26
- 6684 D26
- 7570 B4
- 7575 K7
- 7640 E18
- 7650 D20
- 7651 D21
- 7652 D23
- 7653 H24
- 7660 E22
- 7660 E26
- 7661 G22
- 7661 G26
- 7680 C25
- 7684 E28
- 7685 G28
- 7720 F29
- 7720 G29

CONTROL AND DISPLAY

1030 A3	3001 G8	3007 F6	3012 C3	6003 G9	7004 G7
1031 G6	3002 G9	3008 F7	3013 C3	7001 D4	7005 G8
1032 G7	3003 G10	3010 C2	6001 B3	7002 D6	7006 E9
2001 B2	3006 H2	3011 C2	6002 H9	7003 G6	





PRS 06521  
T28/015





## DECODER PANEL

Miscellaneous					
BU1	4822 265 20291		3531	4822 050 21503	15k 1% 0,6W
BU2	4822 267 31171		3532	4822 052 10478	4Ω7 5% 0,33W
Crystal			3533	4822 050 11802	1k8 1% 0,4W
1571	4822 242 73557	4,00 MHz	3534	4822 050 25102	5k1 2%
1601	4822 242 72527	4,00 MHz CERAMIC RESONATOR	3535	4822 050 11803	18k 1% 0,4W
			3536	4822 050 22204	220k 1% 0,6W
2530	4822 121 43375	220nF 63V	3537	4822 050 22204	220k 1% 0,6W
2531	4822 121 51321	8,2μF 1% 63V	3538	4822 052 10478	4Ω7 5% 0,33W
2532	4822 121 51321	8,2μF 1% 63V	3539	4822 050 11203	12k 1% 0,4W
2533	4822 124 40272	33μF 20% 16V	3540	4822 051 10223	22k 2% 0,25W
2534	5322 121 42604	47nF 5% 63V	3560	4822 116 52234	100k 5% 0,5W
2535	5322 121 42661	330nF 5% 63V	3561	4822 116 52234	100k 5% 0,5W
2536	4822 121 43375	220nF 10% 63V	3562	4822 051 20104	100k 5% 0,1W
2537	4822 122 33342	33nF 10% 63V	3563	4822 116 52234	100k 5% 0,5W
2538	4822 122 33342	33nF 10% 63V	3564	4822 111 30517	22Ω 5% 0,33W
2560	5322 122 31866	6,8nF 10% 63V	3570	4822 051 20222	2k2 5% 0,1W
2561	5322 122 31866	6,8nF 10% 63V	3571	4822 052 10478	4Ω7 5% 0,33W
2562	4822 122 33496	100nF 10% 63V	3572	4822 051 20223	22k 5% 0,1W
2570	5322 122 32452	47pF 5% 50V	3573	4822 050 21002	1k 1% 0,6W
2571	4822 122 33175	2,2nF 20% 50V	3574	4822 050 11204	120k 2%
2572	4822 122 33809	22nF 20% 50V	3575	4822 116 52921	4k7 1% 0,6W
2574	4822 124 40272	33μF 20% 16V	3580	4822 051 10102	1k 2% 0,25W
2575	5322 121 42661	330nF 5% 63V	3581	4822 051 20225	2M2 5%
2576	5322 122 32268	470pF 5% 50V	3583	4822 050 22202	2k2 5% 0,125W
2577	4822 121 43396	120nF 10% 63V	3585	4822 052 10478	4Ω7 5% 0,33W
2582	4822 122 33809	22nF 20% 50V	3586	4822 052 10478	4Ω7 5% 0,33W
2584	4822 122 10166	22nF 30% 16V	3587	4822 051 20224	220k 5% 0,1W
2586	4822 124 40242	1μF 20% 63V	3590	4822 051 20223	22k 5% 0,1W
2601	4822 122 33809	22nF 20% 50V	3591	4822 051 20223	22k 5% 0,1W
2602	4822 124 40435	10μF 20% 50V	3592	5322 111 90473	10k 2% 0,2W NETWORK
2610	4822 122 33809	22nF 20% 50V	3596	4822 051 10223	22k 2% 0,25W
2611	4822 122 33809	22nF 20% 50V	3597	4822 050 21002	1k 1% 0,6W
2612	4822 122 33496	100nF 10% 63V	3598	4822 050 21002	1k 1% 0,6W
2640	4822 124 40196	220μF 20% 16V	3599	4822 051 10102	1k 2% 0,25W
2642	4822 122 33485	56nF 10% 63V	3601	4822 052 10478	4Ω7 5% 0,33W
2650	4822 121 42888	27nF 5% 50V	3602	4822 050 24703	47k 5% 0,125W
2651	4822 121 42888	27nF 5% 50V	3603	4822 051 20224	220k 5% 0,1W
2652	4822 121 51311	1,8nF 5% 50V	3604	4822 116 52224	470Ω 5% 0,125
2653	4822 121 51311	1,8nF 5% 50V	3610	4822 050 21203	12k 1% 0,6W
2660	4822 121 43651	1,5nF 5% 50V	3611	4822 116 52921	4k7 1% 0,6W
2661	4822 121 43651	1,5nF 5% 50V	3612	4822 050 21203	12k 1% 0,6W
2662	4822 121 51313	3,9μF 5% 50V	3613	4822 050 21203	12k 1% 0,6W
2663	4822 121 51313	3,9μF 5% 50V	3614	4822 050 21203	12k 1% 0,6W
2664	4822 121 51324	1nF 5% 50V	3615	4822 111 30483	1Ω 5% 0,33W
2665	4822 121 51324	1nF 5% 50V	3616	4822 111 30483	1Ω 5% 0,33W
2668	4822 122 33809	2nF 20% 50V	3617	4822 111 30517	22Ω 5% 0,33W
2669	4822 122 33809	22nF 20% 50V	3620	4822 116 52244	15k 5% 0,5W
2670	4822 124 41579	10μF 20% 50V	3621	4822 050 21002	1k 1% 0,6W
2671	4822 124 41579	10μF 20% 50V	3622	4822 051 10103	10k 2% 0,25W
2680	4822 124 40272	33μF 20% 16V	3623	4822 050 21002	1k 1% 0,6W
2681	4822 124 40272	33μF 20% 16V	3640	4822 052 10478	4Ω7 5% 0,33W
2682	4822 124 40196	220μF 20% 16V	3641	4822 051 20272	2k7 2%
2760	4822 122 33809	22nF 20% 50V	3650	4822 051 10223	22k 2% 0,25W
2761	4822 122 33809	22nF 20% 50V	3651	4822 051 20472	4k7 5% 0,1W
2762	4822 124 23268	3300μF 20% 16V	3652	4822 051 20223	22k 5% 0,1W
2763	4822 124 40272	33μF 20% 16V	3653	4822 051 10103	10k 2% 0,25W
2770	4822 122 33809	22nF 20% 50V	3654	4822 051 10102	1k 2% 0,25W
2771	4822 122 33809	22nF 20% 50V	3655	4822 051 10102	1k 2% 0,25W
2772	4822 124 41853	1000μF 20% 16V	3656	4822 051 10561	560Ω 2% 0,25W
2773	4822 124 40272	33μF 20% 16V	3657	4822 051 10561	560Ω 2% 0,25W
3530	4822 050 24703	47k 1% 0,6W	3658	4822 051 20475	4M7 5% 0,1W
			3659	4822 051 20475	4M7 5% 0,1W
			3660	4822 051 20272	2k7 2%
			3661	4822 051 20272	2k7 2%
			3662	4822 051 10122	1k2 2% 0,25W
			3663	4822 051 10122	1k2 2% 0,25W











					
3664	4822 051 10122	1k2 2% 0,25W	5660	4822 157 60363	ANTI INTERFERENCE COIL
3665	4822 051 10122	1k2 2% 0,25W	5661	4822 157 60363	ANTI INTERFERENCE COIL
3666	4822 051 20242	2k4 5% 0,1W	  		
3667	4822 051 20242	2k4 5% 0,1W	6570	4822 130 30621	1N4148
3668	4822 051 10122	1k2 2% 0,25W	6600	5322 130 30684	1N4002 (TOSJ)
3669	4822 051 10122	1k2 2% 0,25W	6610	5322 130 30684	1N4002 (TOSJ)
3670	4822 111 30508	10Ω 5% 0,33W	6611	5322 130 30684	1N4002 (TOSJ)
3671	4822 111 30508	10Ω 5% 0,33W	6620	4822 130 30621	1N4148
3672	4822 051 20223	22k 5% 0,1W	6621	4822 130 34174	BZX55-C4V7
3673	4822 051 20223	22k 5% 0,1W	6680	5322 130 30684	1N4002 (TOSJ)
3676	4822 051 10102	1k 2% 0,25W	6681	5322 130 30684	1N4002 (TOSJ)
3677	4822 051 10102	1k 2% 0,25W	6682	5322 130 30684	1N4002 (TOSJ)
3680	4822 051 10102	1k 5% 0,1W	6683	5322 130 30684	1N4002 (TOSJ)
3681	4822 051 20223	22k 5% 0,1W	6684	4822 130 30861	BZX55-C7V5
3682	4822 051 10102	1k 2% 0,25W	6760	5322 130 30684	1N4002 (TOSJ)
3683	4822 051 10102	1k 2% 0,25W	6761	5322 130 30684	1N4002 (TOSJ)
3684	4822 050 25603	56k 1% 0,6W	6770	5322 130 30684	1N4002 (TOSJ)
3688	4822 051 20222	2k2 5% 0,1W	6771	5322 130 30684	1N4002 (TOSJ)
3689	4822 050 22202	2k2 1% 0,6W	7530	4822 209 73235	TDA8809T/C2
3700	4822 050 24703	47k 5% 0,125W	7560	4822 209 72587	TCA0372DP2
3701	4822 116 53084	18k 5% 0,125W	7570	4822 209 62112	M50423FP
3702	4822 116 53084	18k 5% 0,125W	7575	4822 209 70422	MN4264-15
3710	4822 051 10103	10k 5% 0,125W	7590	4822 209 62555	MC68HC05C8P/CD500
3711	4822 051 20103	10k 5% 0,1W	7620	4822 209 80797	LM393N (MOTA)
3720	4822 051 10151	150Ω 2% 0,25W	7640	4822 209 73236	TDA1543/N2
3721	4822 051 10151	150Ω 2% 0,25W	7650	4822 130 61207	BC848
3800	4822 051 10008	jumper	7651	5322 130 42012	BC858
3802	4822 051 10008	jumper	7652	4822 130 61207	BC848
3803	4822 051 10008	jumper	7653	4822 130 61207	BC848
3807	4822 051 10008	jumper	7660	4822 209 83163	LM833N (MOTA)
3810	4822 051 10008	jumper	7661	4822 209 83163	LM833N (MOTA)
3811	4822 051 20008	jumper	7680	5322 130 42012	BC858
3815	4822 051 10008	jumper	7684	4822 130 61207	BC848
3818	4822 051 10008	jumper	7685	4822 130 61207	BC848
3821	4822 051 10008	jumper	7700	4822 130 61207	BC848
3822	4822 051 10008	jumper	7710	5322 130 42012	BC858
3850	4822 051 10008	jumper	7720	4822 209 83274	NJM4560D
3851	4822 051 10008	jumper	7760	4822 209 71579	TY40408 (MOTA)
3852	4822 051 10008	jumper	7770	4822 209 73233	MC79L05ACP
3853	4822 051 10008	jumper			
3854	4822 051 10008	jumper			
3855	4822 051 10008	jumper			
3856	4822 051 10008	jumper			

PHOTO DIODE SIGNAL CONTROLLER PANEL

Miscellaneous					
SK3	4822 276 12523		3512	4822 051 20154	150k 5% 0,1W
			3513	4822 116 52866	82k 1% 0,6W
2500	4822 122 33809	22nF 20% 50V	3514	4822 051 20164	160k 5% 0,1W
2501	4822 122 33809	22nF 20% 50V	3515	4822 100 11193	22k 20%LIN 0,05W
2502	5322 122 32268	470pF 10% 50V	3516	4822 050 24704	470k 1% 0,6W
2503	4822 122 33809	22nF 20% 50V	3517	4822 051 20563	56k 5% 0,1W
2504	4822 122 33175	2,2nF 20% 50V	3518	4822 111 30519	27Ω 5% 0,33W
2505	5322 121 42604	47nF 5% 63V	3519	4822 111 30517	22Ω 5% 0,33W
2506	5322 122 32531	100pF 5% 50V	3541	4822 050 16802	6k8 1% 0,4W
2507	4822 122 33177	10nF 20% 50V	3542	4822 116 52441	6k8 5% 0,5W
2508	5322 122 34123	1nF 10% 50V	3543	4822 111 30483	1Ω 5% 0,33W
2509	4822 121 43375	220nF 10% 63V	3544	4822 111 30483	1Ω 5% 0,33W
2510	4822 121 51252	470nF 5% 63V	3545	4822 051 20339	33Ω 5% 0,1W
2511	5322 122 34123	1nF 10% 50V	3546	4822 052 10478	4Ω7 5% 0,33W
2514	4822 121 51252	470nF 5% 63V	3550	4822 111 30515	18Ω 5% 0,33W
2515	4822 122 33339	4,7nF 10% 50V	3551	4822 111 30511	12Ω 5% 0,33W
2516	5322 121 42661	330nF 5% 63V	3552	4822 051 20101	100Ω 5% 0,1W
2517	4822 122 33496	100nF 10% 63V	3553	4822 050 22202	2k2 1% 0,6W
2540	4822 122 33809	22nF 20% 50V	3554	4822 051 10221	220Ω 2% 0,25W
2541	4822 122 33809	22nF 20% 50V	3555	4822 101 10685	4k7 20%LIN 0,05W
2542	4822 124 41583	0,68μF 20% 50V Bipolar	3806	4822 051 10008	jumper
2543	4822 122 33496	100nF 10% 63V	3816	4822 051 10008	jumper
2550	4822 122 32575	220pF 10% 500V	3817	4822 051 10008	jumper
2551	4822 124 40272	33μF 20% 16V	3820	4822 051 10008	jumper
2552	4822 122 32927	220nF 63V	 		
			6540	4822 130 34173	BZX55-C5V6
3500	4822 116 52921	4k7 1% 0,6W	6541	4822 130 34173	BZX55-C5V6
3501	4822 051 20104	100k 5% 0,1W	6550	4822 130 30621	1N4148
3502	4822 051 20163	12k 2% 0,1W	7500	4822 209 73234	TDA8808T/C3
3503	4822 051 20101	100Ω 5% 0,1W	7510	4822 209 72587	TCA0372DP2
3504	4822 051 10102	1k 2% 0,25W	7550	4822 130 44121	BC338
3505	4822 051 20243	24k 2% 0,1W			
3506	4822 051 20562	5k6 5% 0,1W			
3507	4822 051 20103	10k 5% 0,1W			
3510	4822 051 20113	11k 5% 0,1W			
3511	4822 050 11204	120k 1% 0,4W			

## CONTROL AND DISPLAY PANEL

## Miscellaneous

SK1	4822 276 12917	
SK..	4822 276 12276	
1030	4822 130 90849	DISPLAY
1031	4822 134 40885	LAMP HRS-715A
1032	4822 134 40885	LAMP HRS-715A
	4822 256 91635	DISPLAY HOLDER
	4822 466 70673	DIFFUSOR
	4822 381 11124	LENS



2001	4822 122 10166	22nF 30% 16V
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3001	4822 116 52197	56Ω 5% 0,5W
3002	4822 050 28201	820Ω 1% 0,6W
3003	4822 051 10223	22k 2% 0,25W
3006	4822 050 23301	330Ω 1% 0,6W
3007	4822 111 30506	8Ω 5% 0,33W
3008	4822 111 30506	8Ω 5% 0,33W
3010	4822 051 10223	22k 2% 0,25W
3011	4822 051 10223	22k 2% 0,25W
3012	4822 051 10223	22k 2% 0,25W
3013	4822 051 10223	22k 2% 0,25W



6001	4822 130 34174	BZX55-C4V7
6002	4822 130 34173	BZX55-C5V6
6003	4822 130 30621	1N4148
7001	4822 209 62209	COP472WM-3
7002	4822 209 62209	COP472WM-3
7003	5322 130 44349	BC635
7004	5322 130 44349	BC635
7005	4822 130 40938	BC548
7006	4822 214 51772	GP1U521X

## MISCELLANEOUS

15	4822 256 30403	FUSE HOLDER
21	4822 256 30274	FUSE HOLDER
	4822 277 11237	VOLTAGE SELECTOR
1501	4822 253 30322	FUSE T200mAT
1501	4822 070 31001	FUSE T100mAT
5500	4822 146 30897	MAINSTRANSFORMER /17B /34B /37B
5500	4822 146 30893	MAINSTRANSFORMER /00B /01B /10B