

THOMSON MULTI MEDIA

Brandt **FERGUSON** **SABA** **TELEFUNKEN** **THOMSON**

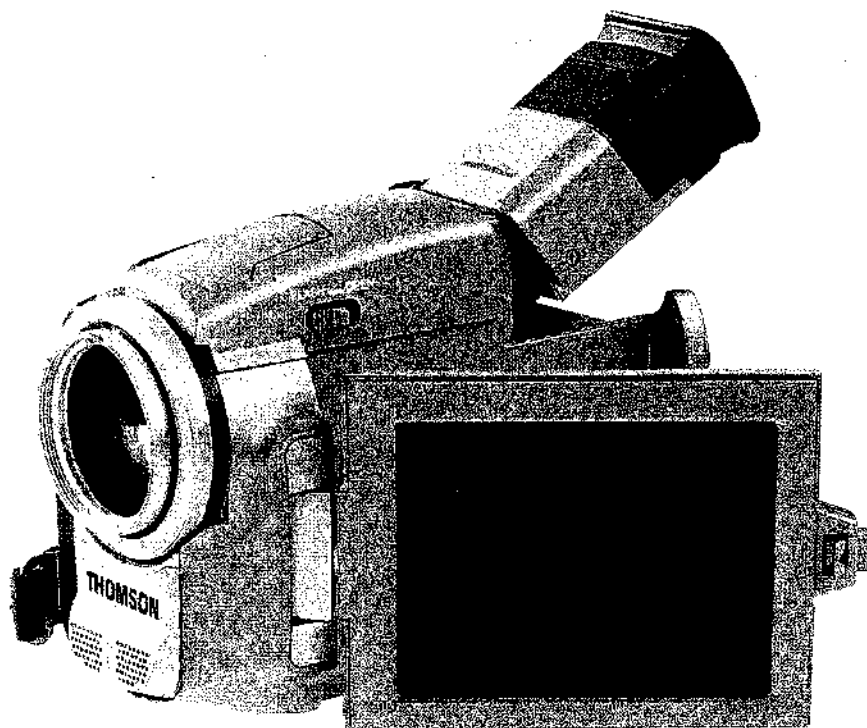
VIDEO



SERVICE MANUAL
DOCUMENTATION TECHNIQUE
TECHNISCHE DOKUMENTATION
DOCUMENTAZIONE TECNICA
DOCUMENTACION TECNICA

VMD10/20

CAMESCOPIES



VMD10/20 ◀ **THOMSON**



WARNING : *Before servicing this chassis read the safety recommendations.*
ATTENTION : *Avant toute intervention sur ce châssis, lire les recommandations de sécurité.*
ACHTUNG : *Vor jedem Eingriff auf diesem Chassis, die Sicherheitsvorschriften lesen.*
ATTENZIONE : *Prima di intervenire sullo chassis, leggere la norma di sicurezza.*
IMPORTANTE : *Antes de cualquier intervención, leer las recomendaciones de seguridad.*

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SPECIFICATIONS

GENERALS

FORMAT	: DV Format (SD mode)
STANDARD	: PAL
POWER SOURCE	: DC 6,3V (Using the AC Power Adapter/Charger) DC 7,2V (Using battery pack)
CONSUMPTION	: 4,5 W (LCD monitor off - viewfinder on) 5,3 W (LCD monitor on - viewfinder off)
DIMENSIONS	: 77 (W) x 142 (H) x 94 (D) mm (With the LCD monitor closed and the viewfinder pushed back in)
WEIGHT	: approx. =620 g
ACCESSORIES	: AC power adapter - Lithium battery - Hand strap - Power cord - Remote control unit - Remote control battery - Cinch/Peritel adapter - S-VIDEO cable - JLIP cable - PC cable - IEEE1394 cable - AV cable -

CAMERA SECTION

SENSOR	: CCD 1/3"
PIXELS	: 800 000
SENSITIVITY	: < 1 Lux
ZOOM	: 10x - 200x Digital Zoom
LENS	: F /1,8 f = 5 to 50 mm 10:1 power zoom lens.
FILTER DIAMETER	: filter diameter 37 mm.
WHITE BALANCE	: auto
VIEWFINDER	: 0,55 " colour LCD

VIDEO RECORDING SECTION

HEAD CONFIGURATION	: 2 video head
S-VIDEO OUTPUT	: Y: 1 Vp-p / 75 Ω analogue C: 0,29 Vp-p / 75 Ω analogue
S-VIDEO INPUT	: Y: 0,8 Vp-p - 1,2 Vp-p / 75 Ω analogue C: 0,2 Vp-p - 0,4 Vp-p / 75 Ω analogue
VIDEO OUTPUT/INPUT-VMD20	: 1 Vp-p / 75 Ω analogue - 0,5 Vp-p - 2,0 Vp-p / 75 Ω analogue
AUDIO OUTPUT/INPUT-VMD20	: 300 mV (rms) / 1 k Ω - 300 mV (rms) / 50 k Ω analogue stereo
VIDEO OUTPUT-VMD10	: 1 Vp-p / 75 Ω analogue
AUDIO OUTPUT-VMD10	: 300 mV (rms) / 1 k Ω analogue stereo
HEADPHONE OUTPUT	: jack \varnothing 3,5 mm
DV OUTPUT/INPUT-VMD20	: 4-pin, IEEE 1394 compliant
DV OUTPUT-VMD10	: 4-pin, IEEE 1394 compliant
DIGITAL STILL OUTPUT	: \varnothing 2,5 mm, 3 pole
JLIP EDITOR	: \varnothing 3,5 mm, 4 pole
TAPE SPEED	: 18,8 mm/s (SP) - 12,5 mm/s (LP)
MAXIMUM RECORDING TIME	: 80 min (SP) - 120 min (LP) using M-DV80 cassette

MAINS SUPPLY/ CHARGER

POWER SOURCE	: AC 110 to 240 V \sim , 50/60 Hz
POWER CONSUMPTION	: 23 W
OUTPUT	: DC 7,2 V -1,2 A (charge) ; DC 6,3 V - 1,8 A (VTR)
SYSTEM	: constant current, peak detection, timer controlled.
DIMENSIONS	: 68 (W) x 38 (H) x 110 (D) mm
WEIGHT	: approx. 250 g

CONTENTS

	Pages		Pages
1 - DISASSEMBLY			
1.1 BEFORE ASSEMBLY AND DISASSEMBLY	1	2.1.2 Necessary jigs	18
1.1.1 Precautions	1	2.1.3 Notes on procedure for disassembly/assembly	18
1.1.2 Assembly and disassembly	1	2.2 DISASSEMBLY/ASSEMBLY OF MECHANISM ASSEMBLY	19
1.1.3 Disconnection of connectors (Wires)	1	2.2.1 General statement	19
1.2 TOOLS AND EQUIPMENTS REQUIRED FOR ADJUSTMENTS	2	2.2.2 Explanation of mechanism mode	19
1.2.1 Tools required for adjustments	2	2.2.3 Mechanism timing chart.....	20
1.3 DISASSEMBLY / ASSEMBLY OF CABINET PARTS	3	2.2.4 Disassembly/assembly of mechanism assembly	21
1.3.1 Disassembly flow chart	3	2.2.5 Dsassembly/assembly	24
1.3.2 Disassembly method	4	2.2.6 List of procedures for disassembly	30
1.4 DISASSEMBLY/ASSEMBLY OF E. VF UNIT	10	2.2.7 Checkup and adjustment of mechanism phase	31
1.4.1 E. VF unit.....	10	2.2.8 Assembling slide deck assembly and main deck assembly	32
1.5 DISASSEMBLY/ASSEMBLY OF MONITOR ASSEMBLY	11	2.2.9 Locating tension pole.....	33
1.5.1 Monitor assembly/Hinge assembly	11	2.3 SERVICE NOTE.....	34
1.6 DISASSEMBLY OF OP BLOCK ASSEMBLY/CCD BOARD ASSEMBLY	12	3 - ELECTRICAL ADJUSTMENT	
1.6.1 Precautions.....	12	3.1 PREPARATION BEFORE ADJUSTMENT.....	36
1.6.2 How to remove OP block assembly and CCD board assembly	12	3.1.1 Precautions.....	36
1.6.3 How to reassemble OP block assembly/CCD board assembly	12	3.1.2 Required test equipment	36
1.6.4 Replacement of service parts	12	3.1.3 Jigs necessary for electrical adjustment.....	36
1.7 CONNECTION OF CONNECTORS.....	13	3.1.4 Setup	36
1.8 CONNECTION OF CONNECTORS (PATCH CORDS).....	14	3.2 MONITOR ADJUSTMENT	38
1.9 HOW TO TAKE OUT CASSETTE TAPE	15	3.2.1 PLL (MONI)	38
1.10 SERVICE NOTE.....	16	3.3 ELECTRONIC VIEWFINDER (E.VF) ADJUSTMENT	38
1.11 EMERGENCY DISPLAY	17	3.3.1 PLL (VF)	38
2 - MECHANISM ADJUSTMENT		3.4 MPL ADJUSTMENT	39
2.1 PRELIMINARY REMARKS ON ADJUSTMENT AND REPAIR.....	18	3.4.1 MPL	39
2.1.1 Precautions.....	18	3.5 FUSE LOCATION.....	39
		3.5.1 REG PWB (FOIL SIDE).....	39
		3.5.2 MONITOR PWB (FOIL SIDE).....	40
		3.5.3 MONITOR PWB (COMPONENT SIDE)	40

	Pages		Pages
4 - CHARTS AND DIAGRAMS		4.22	CCD/AD SCHEMATIC DIAGRAM.....85
NOTES OF SCHEMATIC DIAGRAM	41	4.23	PRE/REC SCHEMATIC DIAGRAM.....87
CIRCUIT BOARD NOTES.....	42	4.24	MPL SCHEMATIC DIAGRAM
4.1 BOARD INTERCONNECTIONS	43	4.25	MONITOR BL SCHEMATIC DIAGRAM
4.2 CPU SCHEMATIC DIAGRAM	45	4.26	DIAL SCHEMATIC DIAGRAM.....93
4.3 PC IF SCHEMATIC DIAGRAM	47	4.27	VF BL, ZOOM UNIT AND POWER UNIT SCHEMATIC DIAGRAMS
4.4 DECK CPU SCHEMATIC DIAGRAM	49		95
4.5 DV MAIN SCHEMATIC DIAGRAM.....	51	4.28	MAIN CIRCUIT BOARD
4.6 DVEQ/DVANA SCHEMATIC DIAGRAM.....	53	4.29	DSC CIRCUIT BOARD.....
4.7 VIDEO OUT SCHEMATIC DIAGRAM.....	55	4.30	REGULATOR CIRCUIT BOARD.....
4.8 ANALOG VIDEO I/O SCHEMATIC DIAGRAM	57		1074.31
4.9 DSP SCHEMATIC DIAGRAM	59		MDA CIRCUIT BOARD
4.10 REG CTL SCHEMATIC DIAGRAM	61	4.32	FRONT CIRCUIT BOARD.....
4.11 AUDIO AD/DA AND SHUTTER MDA SCHEMATIC DIAGRAMS	63	4.33	JACK CIRCUIT BOARD
4.12 MAIN AUDIO SCHEMATIC DIAGRAM	65	4.34	MONITOR CIRCUIT BOARD
4.13 IRIS & AF/ZOOM SCHEMATIC DIAGRAM.....	67	4.35	CCD CIRCUIT BOARD
4.14 STROBE SENSOR SCHEMATIC DIAGRAM.....	69	4.36	PRE/REC CIRCUIT BOARD
4.15 DSC SCHEMATIC DIAGRAM.....	71	4.37	MONITOR BL CIRCUIT BOARD.....
4.16 REGULATOR SCHEMATIC DIAGRAM	73	4.38	DIAL AND MPL CIRCUIT BOARDS.....
4.17 MDA SCHEMATIC DIAGRAM.....	75	4.39	POWER SYSTEM BLOCK DIAGRAM
4.18 W/B AND IR/TALLY/EJECT SCHEMATIC DIAGRAMS	77	4.40	VIDEO SYSTEM BLOCK DIAGRAM.....
4.19 AV/MIC/HP JACK AND JACK SCHEMATIC DIAGRAMS	79	4.41	AUDIO SYSTEM BLOCK DIAGRAM
4.20 PHY SCHEMATIC DIAGRAM	81	4.42	REGULATOR SYSTEM BLOCK DIAGRAM.....
4.21 MONITOR SCHEMATIC DIAGRAM.....	83		133
		4.43	VOLTAGE CHARTS.....
			135
		5 - AC POWER ADAPTER	
		5.1	CIRCUIT BOARD
			140
		5.2	SCHEMATIC DIAGRAM.....
			141

SECTION 1 DISASSEMBLY

1.1 BEFORE ASSEMBLY AND DISASSEMBLY

1.1.1 Precautions

1. Be sure to remove the power supply unit prior to mounting and soldering of parts.
2. When removing a component part that needs to disconnect the connector and to remove the screw for removing itself, first disconnect the connecting wire from the connector and then remove the screw beforehand.
3. When connecting and disconnecting the connectors, be careful not to damage the wire.
4. When replacing chip parts (especially IC parts), desolder completely first (to prevent peeling of the pattern).
5. Tighten screws properly during the procedures.
Unless specified otherwise, tighten screws at a torque of 0.1N·m (1.0kgf·cm).

1.1.2 Assembly and disassembly

STEP /LOC NO.	PART	Fig. No.	REMOVAL	
			UNLOCK/RELEASE/ UNPLUG/UNCLAMP/ UNSOLDER	Note
①	UPPER CASE	Fig.1-3-1	(S1a), (S2b), (S1c), (S1d) (S1e), (L1a), 2(L1b), (L1c) CONNECTOR ④	Note 1b Note 1c
②	FRONT COVER ASSY		(S1b), 2(S1e) CONNECTOR ⑥, ⑦ GRIP BELT	Note 1a Note 1b

↑ ↑ ↑ ↑ ↑
 (1) (2) (3) (4) (5)

- (1) Indicate the disassembly steps. When assembling, perform in the reverse order of these steps. This number corresponds to the number in the disassembly diagram.
- (2) Indicates the name of disassembly/assembly parts.
- (3) Indicates the number in the disassembly diagram.
- (4) Indicates parts and points such as screws, washers, springs which must be removed during disassembly/assembly.
P = Spring
W = Washer
S = Screw
Lock (L), soldering (SD), shield, connector, etc.

[Example] • Remove (W1) = Washer W1.
• Remove (SD1) = Soldering at the point SD1.
• Connector ④ = Disconnect the connector ④.

- (5) Precautions on disassembly/assembly.

1.1.3 Disconnection of Connectors (Wires)

Connector

Pull both ends of the connector in the arrow direction, remove the lock and disconnect the flat wire.

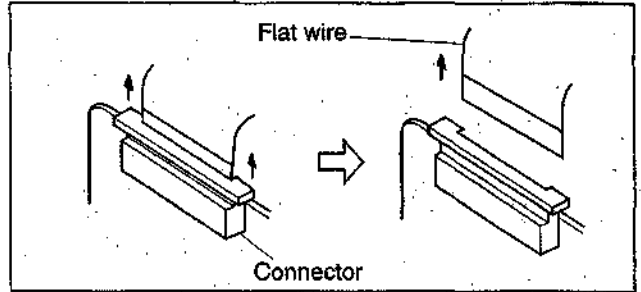


Fig. 1-1-1 Connector 1

Extend the locks in the direction of the arrow for unlocking and then pull out the wire. After removing the wire, immediately restore the locks to their original positions because the locks are apt to come off the connector.

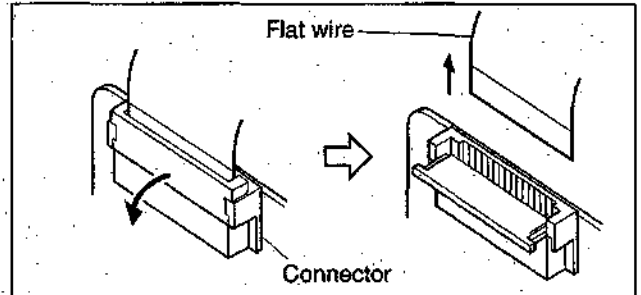


Fig. 1-1-2 Connector 2

B-B connector

Pull the board by both the sides in the direction of the arrow for disconnecting the B-B connector

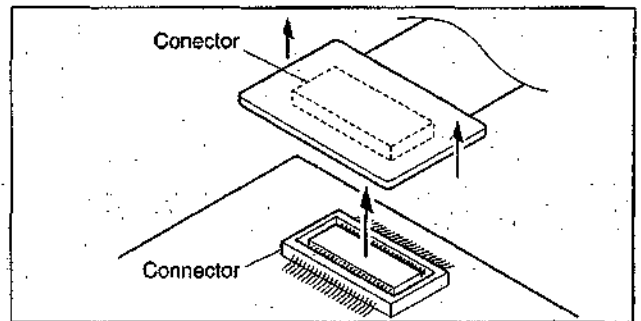


Fig. 1-1-3 Connector 3

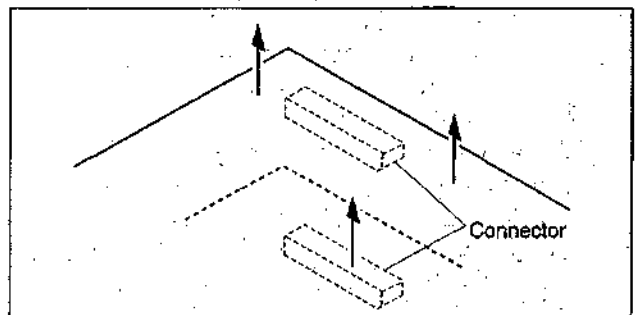
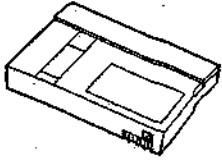
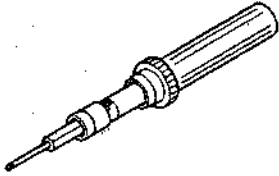
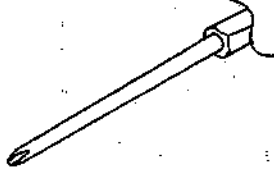
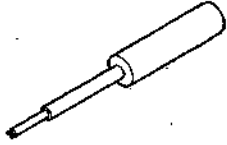
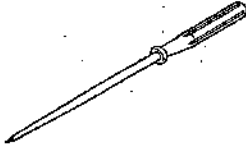
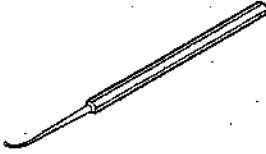
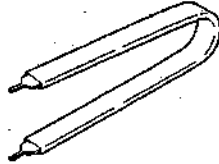
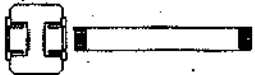
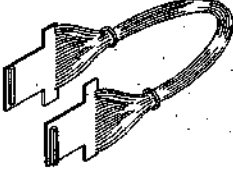
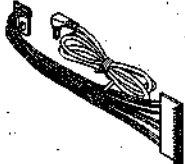
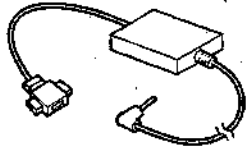
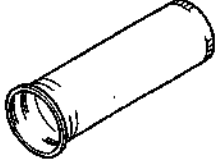
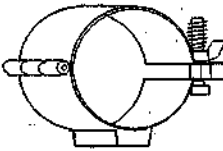
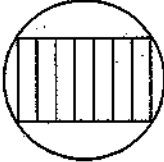
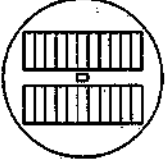
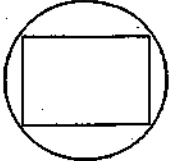
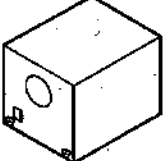
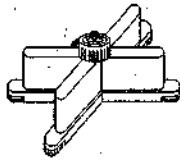
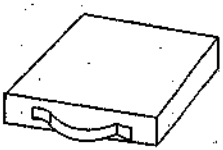
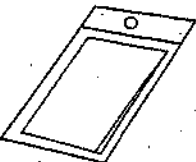
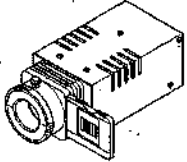
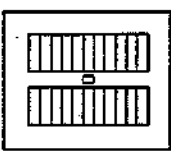
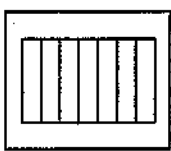


Fig. 1-1-4 Connector 4

1.2 TOOLS AND EQUIPMENTS REQUIRED FOR ADJUSTMENTS

1.2.1 Tools required for adjustments

1	Alignment tape MC-2 35084420	2	Torque driver 35027200	3	Bit 35081460	4	Guide driver 35084430
							
5	Adjustment driver 10361290	6	Chip IC replacement jig 10361310	7	Connector catcher 70402598	8	Patch cord 35118080
							
9	Patch cord 35118090	10	Jig connector cable 35118100	11	PC cable 35065010	Table 1-2-1	
							
13	INF adjustment lens 10145030	14	INF adjustment lens holder 35039040	15	Color bar chart 10211950	16	Gray scale chart 10211970
							
17	White balance chart 10211980	18	Light box 10262860	19	Camera stand	20	
							
21	Cleaning cloth	22	Light box assembly 35118050	23	Gray scale chart 35118060	24	
							

1. Alignment tape
To be used for check and adjustment of interchangeability of the mechanism.
2. Torque driver
Be sure to use to fastening the mechanism and exterior parts because those parts must strictly be controlled for tightening torque.

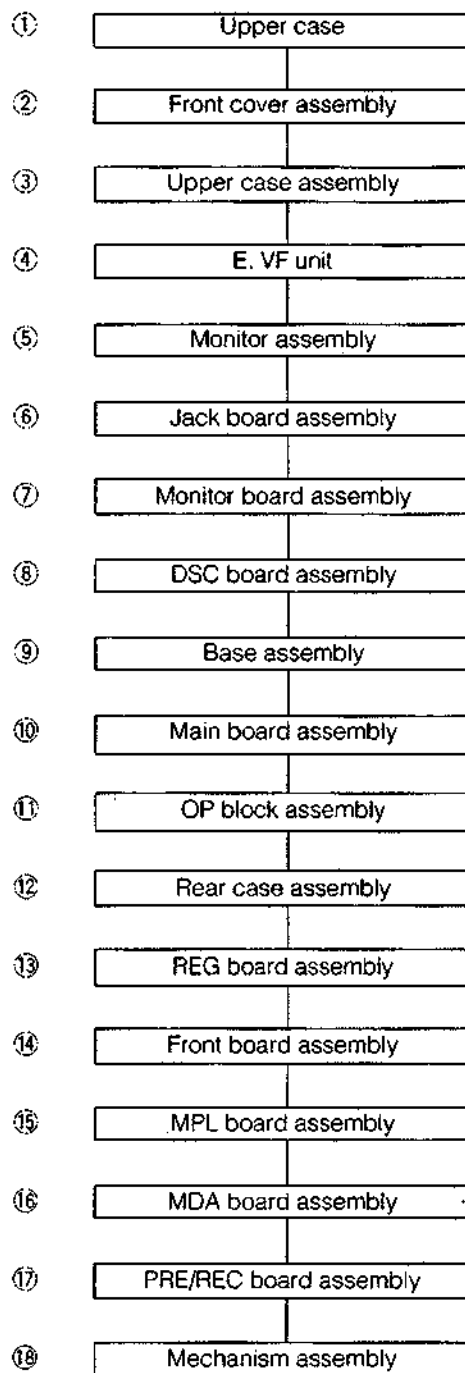
3. Bit
This bit is slightly longer than those set in conventional torque drivers.
4. Guide driver
To be used to turn the guide roller to adjustment of the linearity of playback envelope.

5. Adjustment driver
To be used for adjustment.
6. Chip IC replacement jig
To be used for adjustment of the camera system.
7. Connector catcher
To be used to release the connector.
- 8/9. Patch cord
To be used to connect electrical parts, P.C. boards, etc. for servicing.
10. JIG connector cable
Connected to CN303 of the reg board and used for measuring error rates, etc.
11. PC cable
To be used to connect the VideoMovie and a personal computer with each other when a personal computer is used for adjustment.
12. Service support software
To be used for adjustment with a personal computer.
13. INF adjustment lens
To be used for adjustment of the camera system.
14. INF lens holder
To be used together with the camera stand (19) for operating the VideoMovie in the stripped-down condition such as the status without the exterior parts or for using commodities that are not yet conformable to the interchangeable ring.
15. Color bar chart (for No. 13)
To be used for adjustment of the camera system.
16. Gray scale chart (for No. 13)
To be used for adjustment of the camera system.
17. White balance chart (for No. 13)
To be used for adjustment of the camera system. (for white balance adjustment)
18. Light box
To be used for adjustment of the camera system.
19. Camera stand
To be used together with the INF adjustment lens holder.
20. Soldering kit
Thin head is made so that it can be inserted into small spaces.
21. Cleaning cloth
Recommended cleaning cloth to wipe down the video heads, mechanism (tape transport system), optical lens surface.
22. Light box (new type)
To be used for adjustment of the camera system.
23. Gray scale chart (for No. 22)
To be used for adjustment of the camera system.
24. Color bar chart (for No. 22)
To be used for adjustment of the camera system.

1.3 DISASSEMBLY/ASSEMBLY OF CABINET PARTS

1.3.1 Disassembly flow chart

This flowchart indicates the disassembly step for the cabinet parts and board assembly in order to gain access to item(s) to be serviced. When reassembling, perform the step(s) in reverse order. Bend, route and dress the flat cables as they were originally.



1.3.2 Disassembly method

STEP /LOC NO.	PART	Fig. No.	REMOVAL	
			UNLOCK/RELEASE/ UNPLUG/UNCLAMP/ UNSOLDER	Note
①	UPPER CASE	Fig.1-3-1	(S1a), (S2b), (S1c), (S1d) (S1e), (L1a), 2(L1b), (L1c) CONNECTOR ④	Note 1b Note 1c
②	FRONT COVER ASSY		(S1b), 2(S1e) CONNECTOR ③, ⑤ GRIP BELT	Note 1a Note 1b
③ ④ ⑤	UPPER CASE ASSY (INCL. E. VF UNIT, MONITOR ASSY)	Fig.1-3-2	3(S2a), (S2b), (S2c), 2(S2d) CONNECTOR ⑥, ⑦ MULTI MEDIA CARD	Note 2
④	E. VF UNIT	Fig.1-3-3	2(S3) CONNECTOR ⑧ LUG WIRE	Note 3a Note 3b
⑤	MONITOR ASSY	Fig.1-3-4	2(S4), (L4) CONNECTOR ⑨ SPACER	-
⑥	JACK BOARD ASSY	Fig. 1-3-5	(S5a), (S5b), (L5) BRACKET (JACK)	-
⑦	MONITOR BOARD ASSY	Fig. 1-3-6	3(S5b) CONNECTOR ⑩ SPACER, SPEAKER	Note 5a Note 5b Note 5c
⑧	DSC BOARD ASSY		3(S6), (L6) CONNECTOR ⑪, ⑫, ⑬ LUG WIRE	Note 6
⑨	BASE ASSY	Fig.1-3-7	(S7a), (S7b)	-
⑩	MAIN BOARD ASSY	Fig.1-3-8	CONNECTOR ⑭, ⑮, ⑯, ⑰, ⑱, ⑲ SPACER	-
⑪	OP BLOCK ASSY	Fig.1-3-9	(S9a), (S9b), (S9c) CONNECTOR ⑳ LUG WIRE	Note 9
⑫ ⑬ ⑭	REAR CASE ASSY (INCL. REG BOARD ASSY)	Fig.1-3-10	(S10a), 2(S10b), (S10c) CONNECTOR ㉑ SPEACER	-
⑬	REG BOARD ASSY	Fig.1-3-11	5(S11), CONNECTOR ㉒	-
⑭	FRONT BOARD ASSY	Fig.1-3-12	(S12a), (S12b), (S12c), 2(S12d) CONNECTOR ㉓ JACK COVER	Note 12
⑮	MPL BOARD ASSY		(S12c)	Note 12b
⑯ ⑰ ⑱	MDA ASSY (PRE/REC BOARD ASSY-INCL. MECHANISM ASSY)	Fig.1-3-13a	3(S13a), 2(L13)	Note 13a Note 13b
⑲	MDA BOARD ASSY	Fig. 1-3-13b	2(S13b) CONNECTOR ㉔, ㉕, ㉖	-
		Fig. 1-3-13c	CONNECTOR ㉗	Note 13c
⑳	PRE/REC BOARD ASSY	Fig. 1-3-14	2(S14), CONNECTOR ㉘ SHIELD COVER (PR)	-
㉑	MECHANISM ASSY	Fig. 1-3-15	2(S15), 2(L15) BRACKET (MECHA)	-

<Note>

- Note 1a** : When dismantling the front cover assembly, remove the center screw (inside) only.
- Note 1b** : When removing the cover assembly, be sure to do it while sliding the front cover assembly frontwards because the lid is stuck into the inside. When assembling, install the ① first and then install the ② without fail.
- Note 1c** : Be careful not to break the FPC wire.
- Note 2** : On proceeding to this work, be sure to remove the Multi media card from the set beforehand.
- Note 3a** : Be careful not to break the FPC wire.
- Note 3b** : When assembling the E. VF unit to the main frame, tighten the lug wire together with the screw.
- Note 5a** : Pay heed to the connecting point of the GND wire.
- Note 5b** : Solder the wire to the GND side of C7209 on the MONITOR board assembly.
- Note 5c** : Pay careful attention to the spacer not to lose it.
- Note 6** : When assembling the AUDIO board assembly into the main frame, tighten the lug wire together with the screw.
- Note 9** : Since the lug wire of the CCD board assembly is tightened together with the screw that fastens the MPL board assembly, it is required to remove the screw No. 30.
- Note 12** : Be careful not to damage the EJECT switch. Be sure to hold the cassette cover assembly closed throughout this work.
- Note 13a** : When removing the board assembly, be careful not to damage any part.
- Note 13b** : When disassembling pay careful attention to the part not to break it.
- Note 13c** : When assembling the board assembly into the main frame, arrange the FPC with meticulous care.

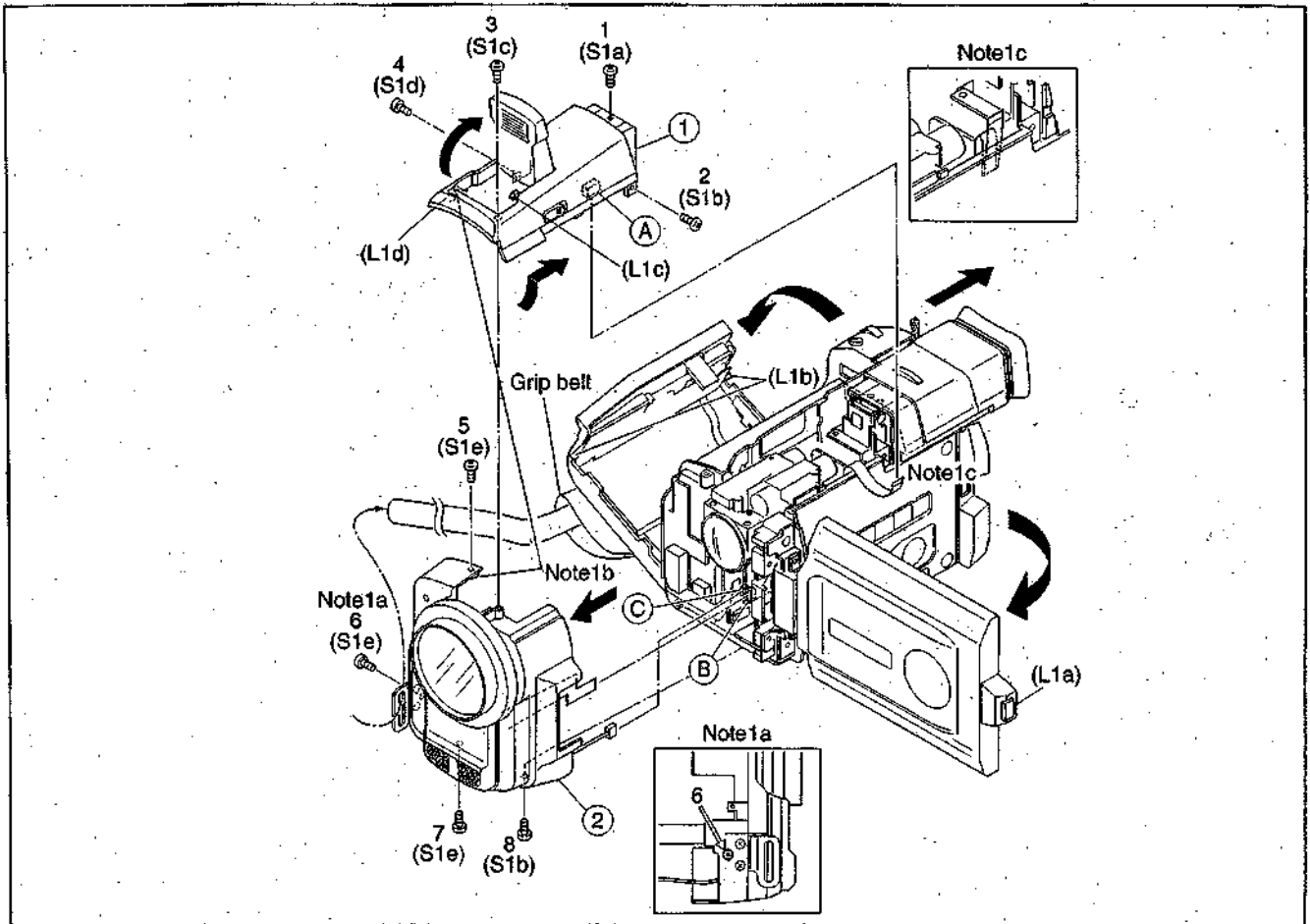
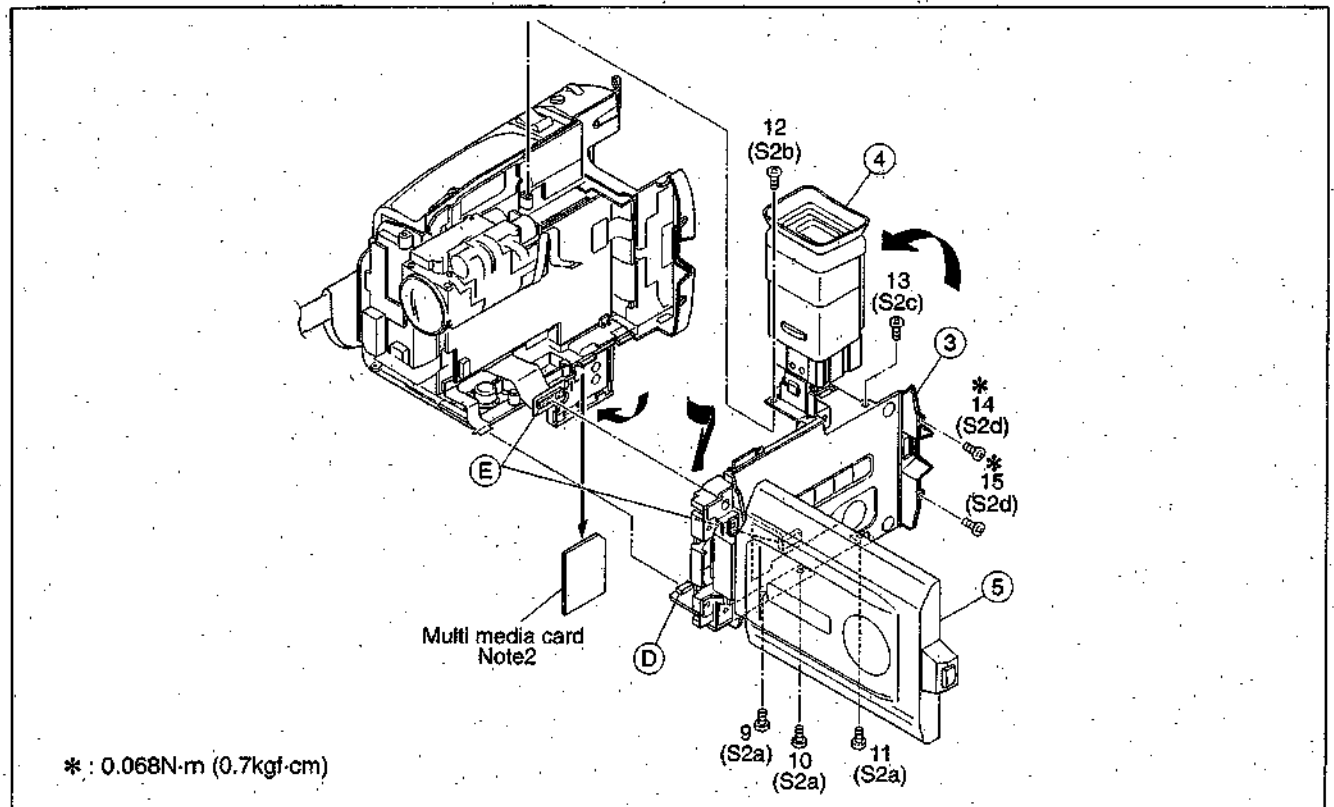


Fig.1-3-1



* : 0.068N-m (0.7kgf-cm)

Fig. 1-3-2

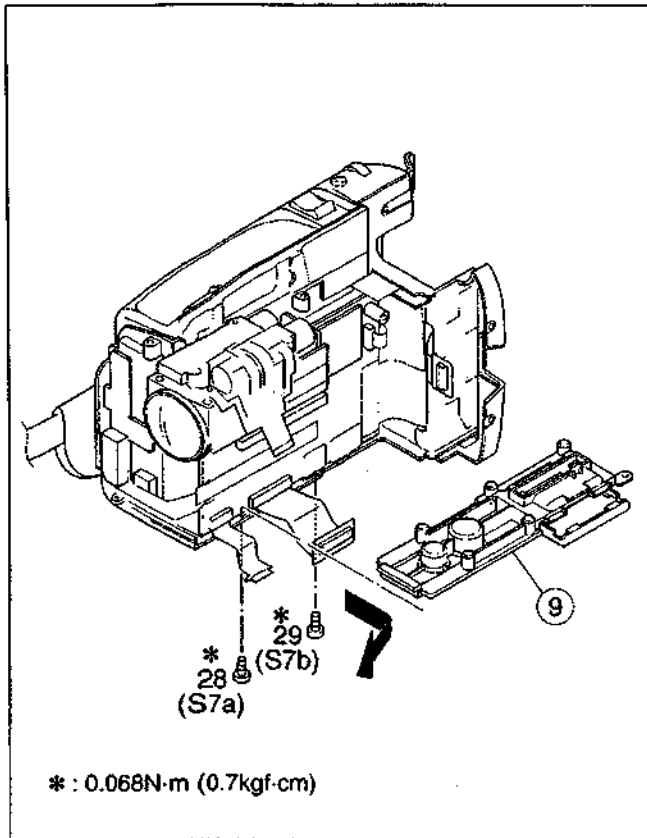


Fig. 1-3-7

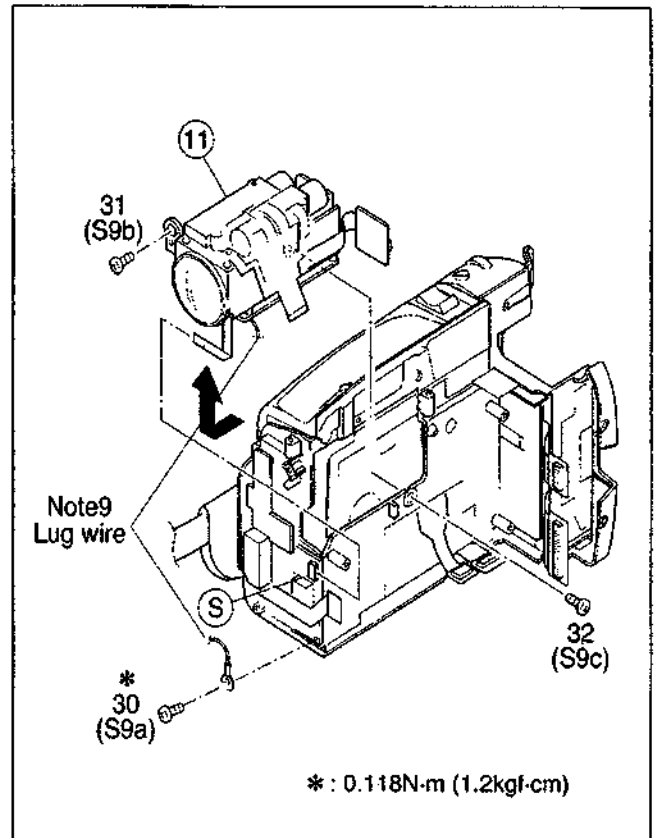


Fig. 1-3-9

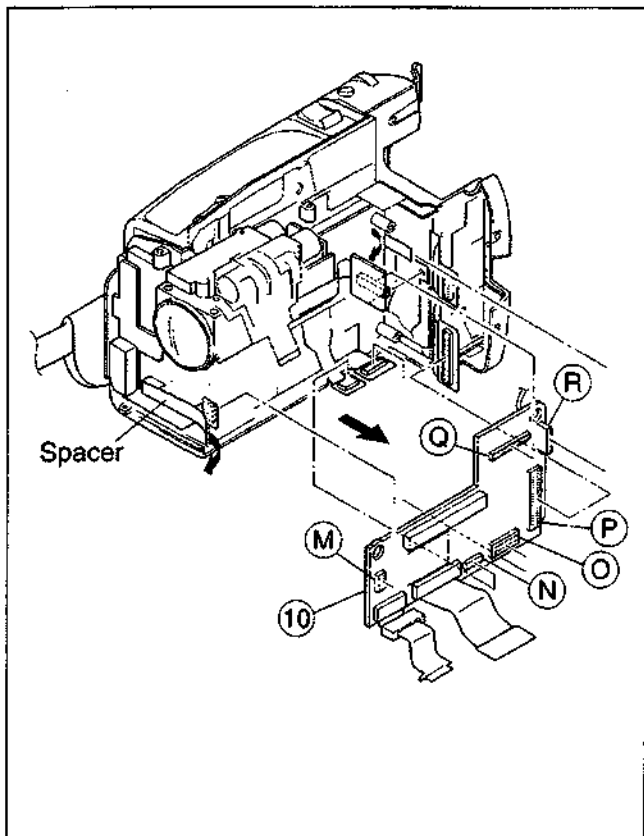


Fig. 1-3-8

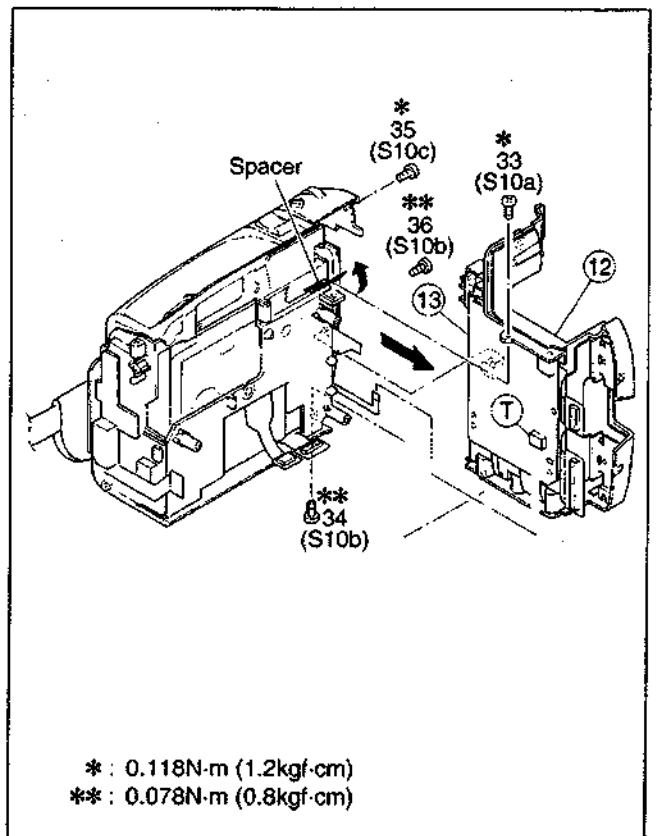


Fig. 1-3-10

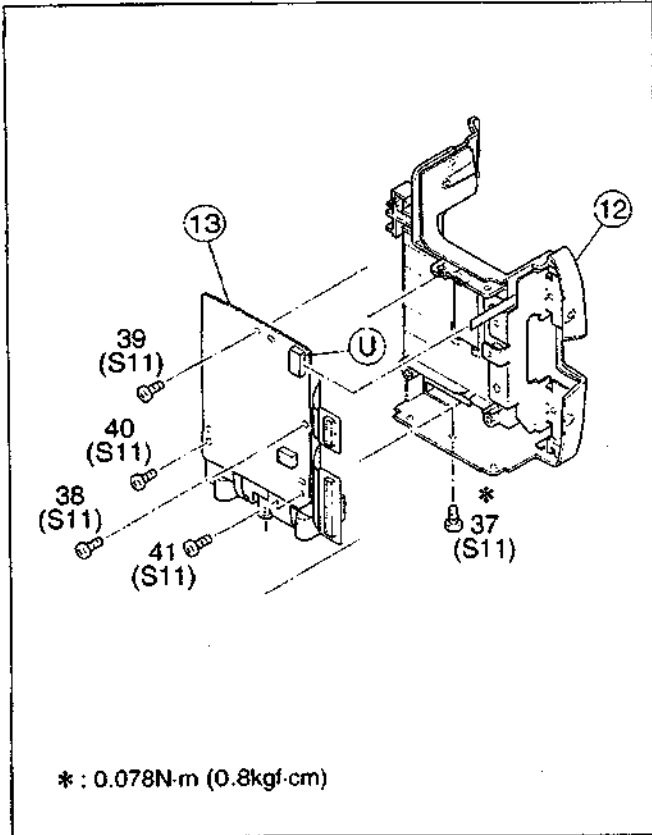


Fig. 1-3-11

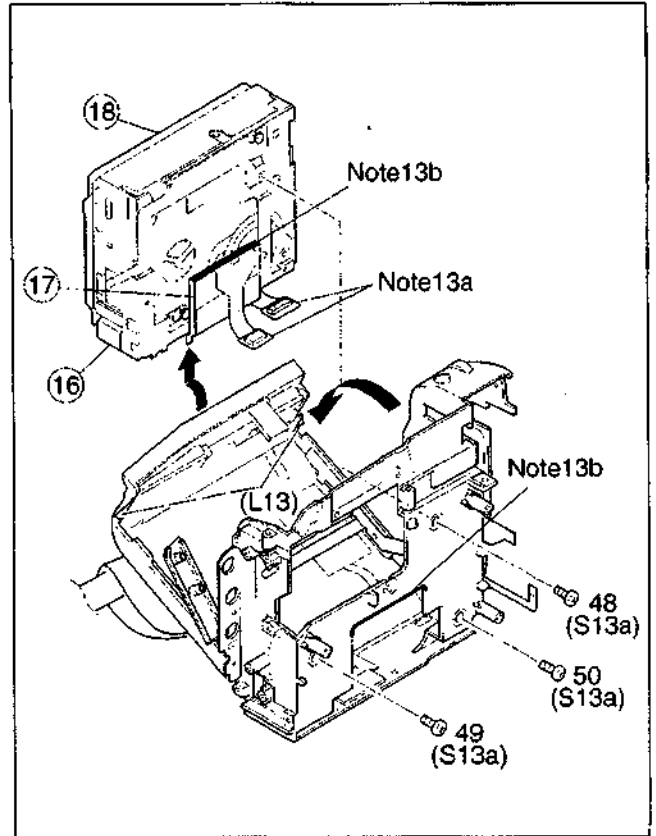


Fig. 1-3-13a

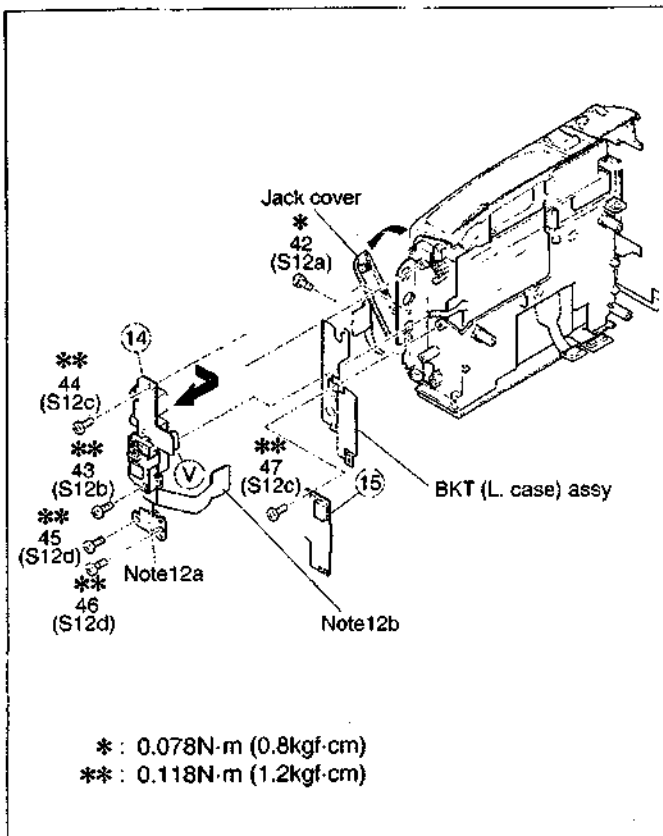


Fig. 1-3-12

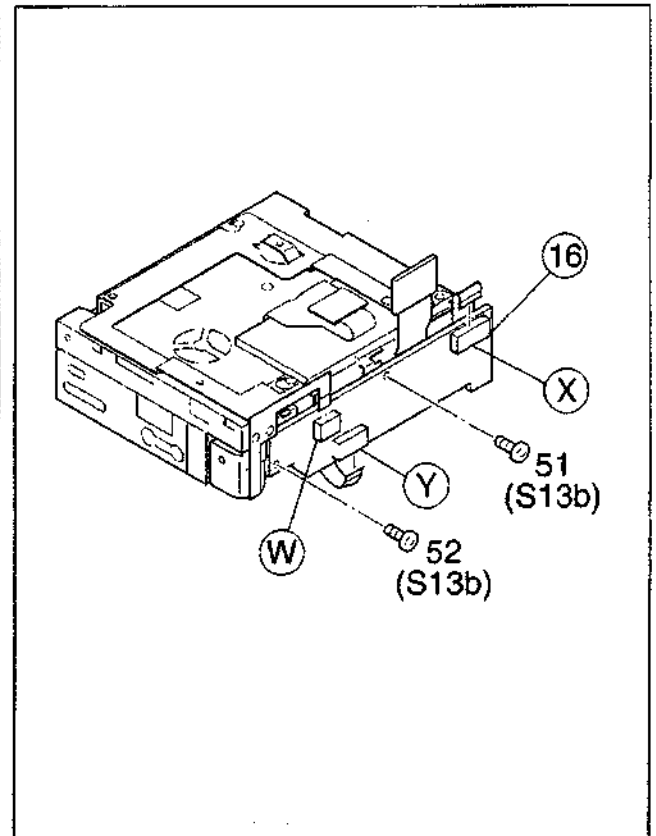


Fig. 1-3-13b

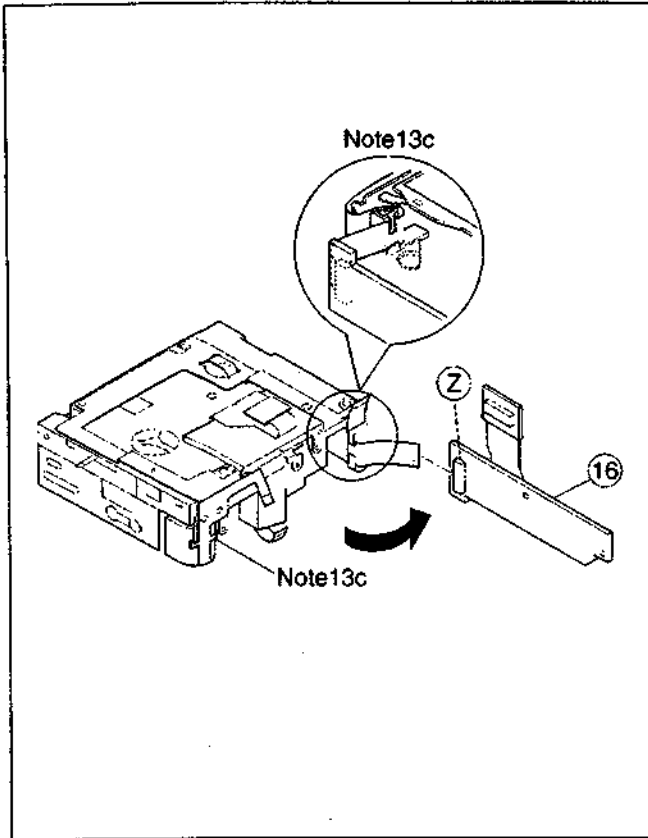


Fig. 1-3-13c

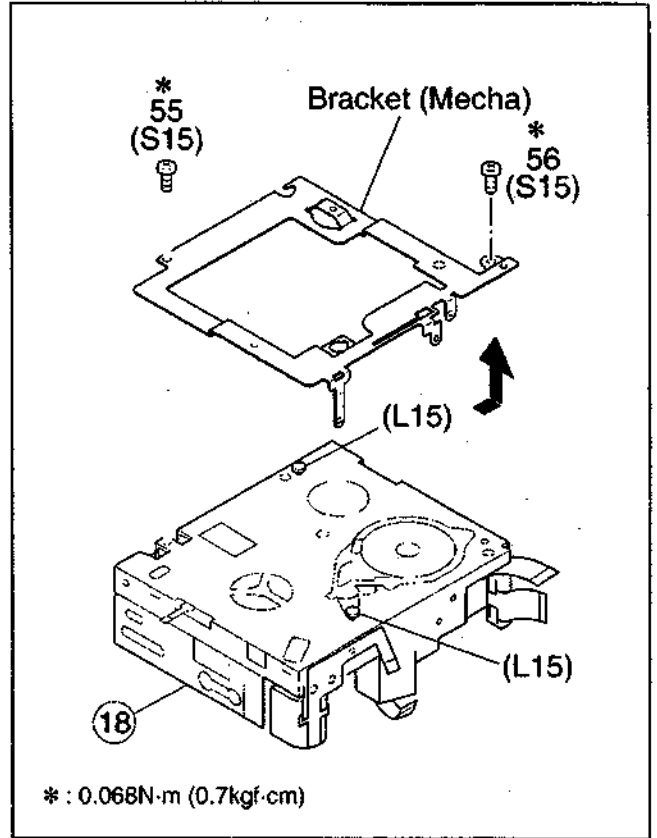


Fig. 1-3-15

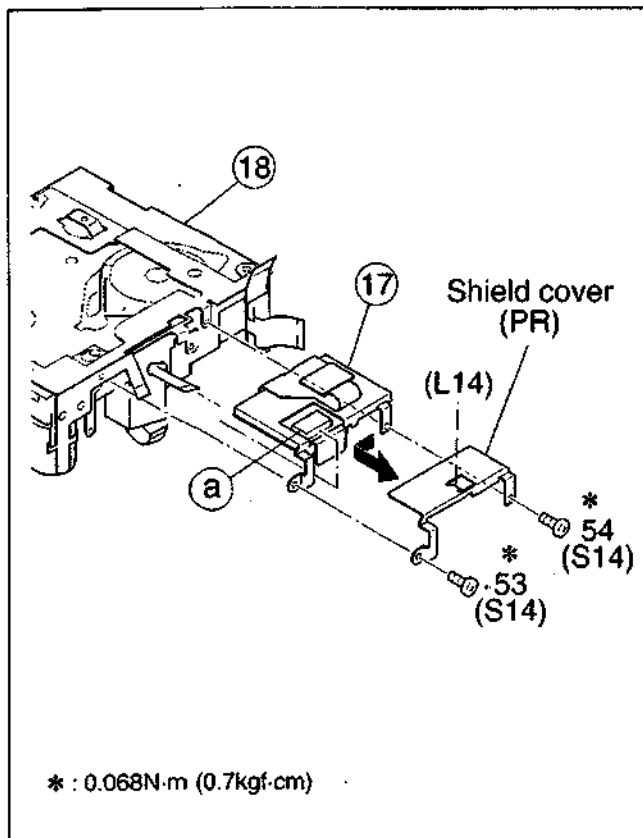


Fig. 1-3-14

1.4 DISASSEMBLY/ASSEMBLY OF E. VF UNIT

1.4.1 E. VF unit

1. Remove the eyecup and then draw out the viewfinder (VF).
2. Remove the four screws (1 to 4) and then remove the VF case (lower).
3. Remove the VF case (upper) while extending it by one side.

Note 4e: When assembling the VF case (upper), carefully set it so that the stud of the LCD case assembly (upper) is put in the groove of the VF case (upper). After that, check to see if the VF case slides smoothly.

4. Remove the four screws (5 to 8) and then remove the hinge assembly.

Note 4a: When removing the hinge assembly, pay heed to the FPC assembly not to damage it.

5. Remove the LCD case (lower) while unhooking it by the four points (L4a).

Note 4d: When assembling the LCD case (lower), pay heed to the FPC wire not to break it.

Note 4c: When assembling, carefully proceed in the work not to damage any switch.

6. Remove the LCD assembly together with the FPC assembly.

Note 4b: When removing the LCD assembly and FPC assembly, be very careful not to damage the FPC assembly.

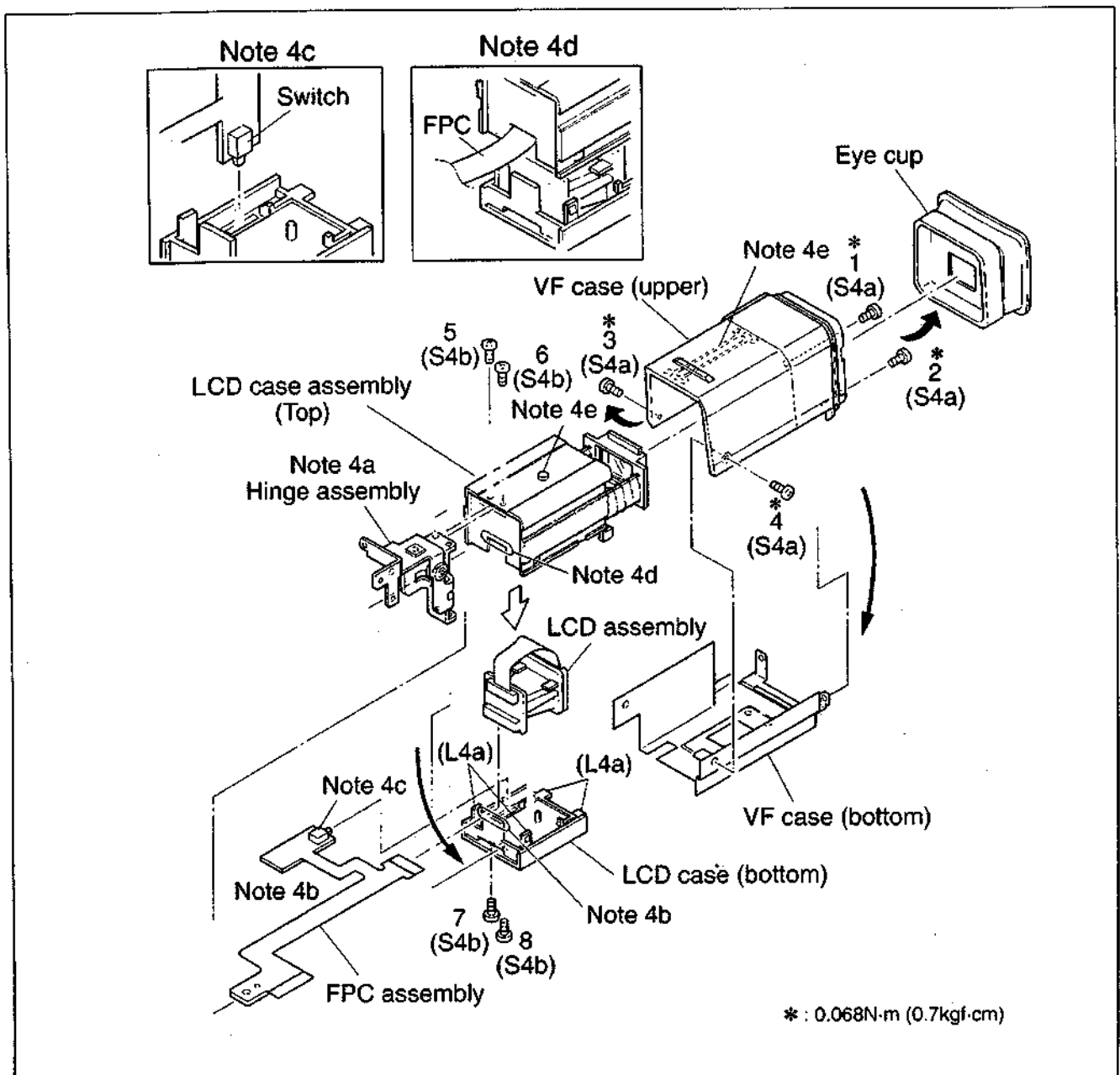


Fig. 1-4-1

1.5 DISASSEMBLY/ASSEMBLY OF MONITOR ASSEMBLY

1.5.1 Monitor assembly/Hinge assembly

1. Remove the six screws (1 to 6). While disengaging the six hooks (L5a to L5f) one after another, remove the monitor cover assembly. Then, disconnect the FPC from the connector (a).
2. Remove the parts from the monitor case assembly and unlock the two connectors (b), (c). While lifting the hinge assembly upwards, disconnect the FPC and then remove the hinge assembly.
3. Remove the two screws (7, 8) and the bracket (button) also.
4. Disconnect the FPC from the connector (d) and then remove the MONITOR board assembly and the backlight.
5. While unhooking the LCD module by the 5 points (L5g), remove the LCD module.
6. Remove the two screws (S5d). Then, remove the hinge covers (1), (2) while unhooking it by four points (L5h).
7. Remove the FPC assembly from the hinge assembly.

- Note 5a:** Don't reuse the screw that was once removed, because screw locking agent was applied to it.
- Note 5b:** When removing the monitor cover assembly, pay heed to the FPC and connectors not to damage them.
- Note 5c:** When removing/reinstalling the hinge assembly, carefully proceed in the work not to damage any part.
- Note 5d:** For disconnecting the FPC from the connector, unlock the connector first and then draw out the hinge assembly together with the FPC so that it is pulled out of the connector.
- Note 5e:** The backlight is soldered to the MONITOR board assembly. When removing the backlight individually, unsolder it by two points.
- Note 5f:** Carefully arrange the FPC.
- Note 5g:** Be careful not to lose the magnet.
- Note 5h:** When reinstalling the FPC assembly, wind it on the hinge assembly by three and a half turns.

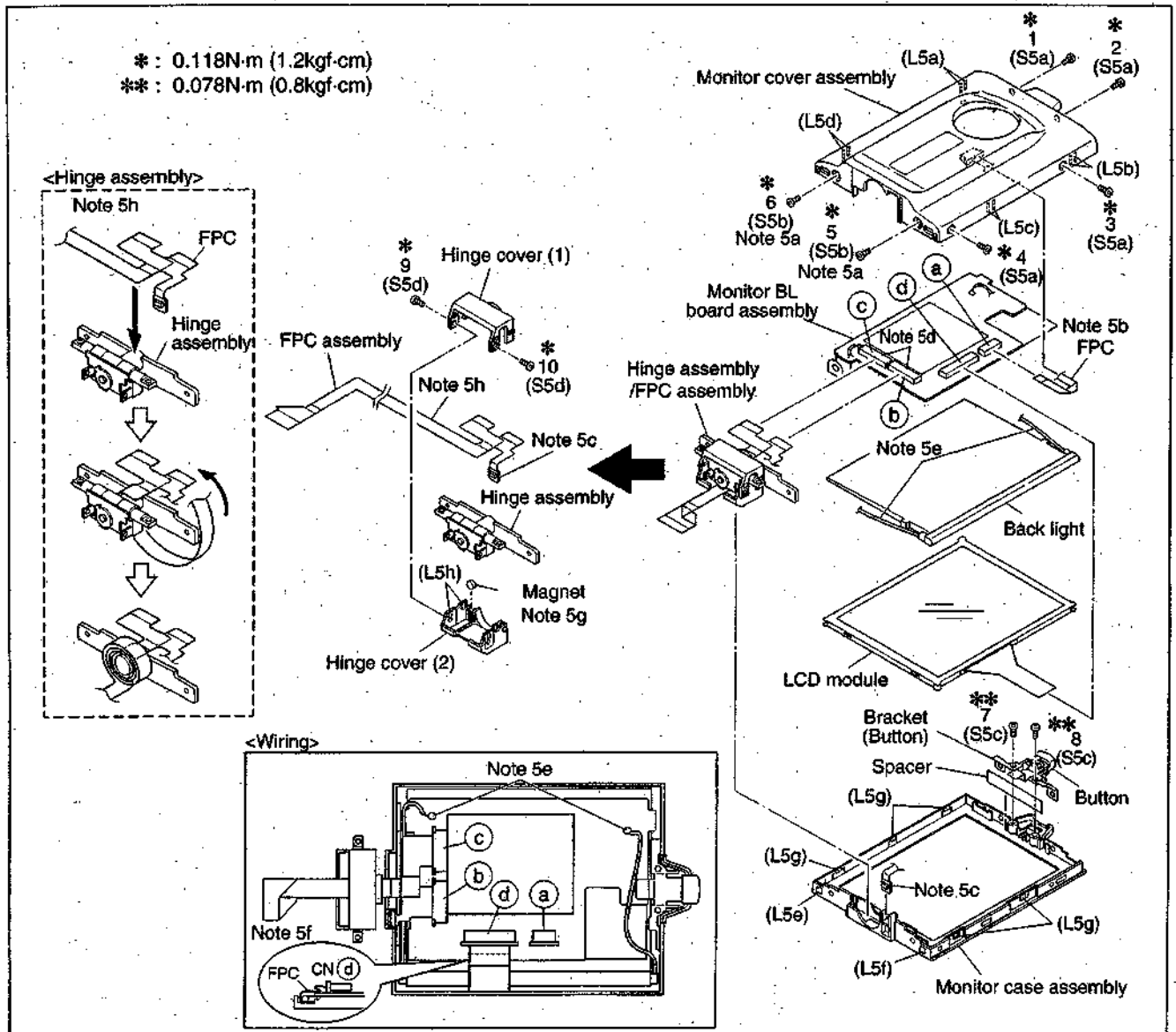


Fig. 1-5-1

1.6 DISASSEMBLY OF OP BLOCK ASSEMBLY/CCD BOARD ASSEMBLY

1.6.1 Precautions

1. Through disassembling/reassembling work, pay the most careful attention to the CCD image sensor, optical LPF, lens and so on so as to prevent them from getting dusty, soiled, scratched on the surface. If some of them gets soiled with fingerprints, etc., wipe it out with silicone paper, clean charmois, and super cleaning cloth recommended by JVC, etc.
2. The new CCD image sensor is occasionally shipped from the factory as a protection seal is applied onto its transparent glass. If so, leave the protection seal as it is and remove it just before installing it in the OP block assembly.

1.6.2 How to remove OP block assembly and CCD board assembly

1. Remove the shield seat (OP) that secures the CCD-board assembly and OP block assembly.

Note 6a: When sticking the shield seat again after it was once removed, carefully set it as it was before.

2. Unsolder the CCD board assembly by the 16 points (SD1).
- Note 6b:** Be sure to remove the parts on the soldered side of the board assembly before unsoldering, if there is something.

2. Remove the three screws (1 to 3) and then remove the CCD board assembly.
3. Remove the two screws (4, 5) and the CCD base assembly also.

Note 6c: When removing the CCD base assembly, carefully proceed in the work not to remove the spacer rubber or/and optical LPF together with the CCD base assembly.

Note 6d: Don't replace the CCD image sensor individually but replace it in a set of the CCD base assembly.

1.6.3 How to reassemble OP block assembly/CCD board assembly

1. Install the optical LPF in the OP block assembly as the spacer rubber is fitted to the CCD side of the optical LPF.
2. Paying heed to the spacer rubber not to move it out of the right position, set the CCD base assembly and fasten it together with the spacer rubber with the two screws (4, 5).
3. Fasten the CCD board assembly with the three screws (1 to 3) first. Then, set it in the CCD base assembly and secure them by soldering at the 16 points (SD1).

Note 6e: If some part was removed before removing the board assembly, restore it to the original place taking care not to make any shortcircuit.

4. Stick the shield seat (OP) to the CCD board assembly and OP block assembly to secure them.

1.6.4 Replacement of service parts

Service parts to be supplied for the OP block assembly are as follows.

When replacing a part, be very careful not to get the FPC wire broken or damaged by overheating caused by soldering.

1. Focus motor
2. Zoom motor
3. Iris motor unit

Note 6f: When soldering the wire of a new focus motor/zoom motor after replacement, be sure to keep the tip of a soldering iron approximately 1 mm apart from the terminal.

Note 6g: The iris motor unit includes the FPC assembly and the two sensors.

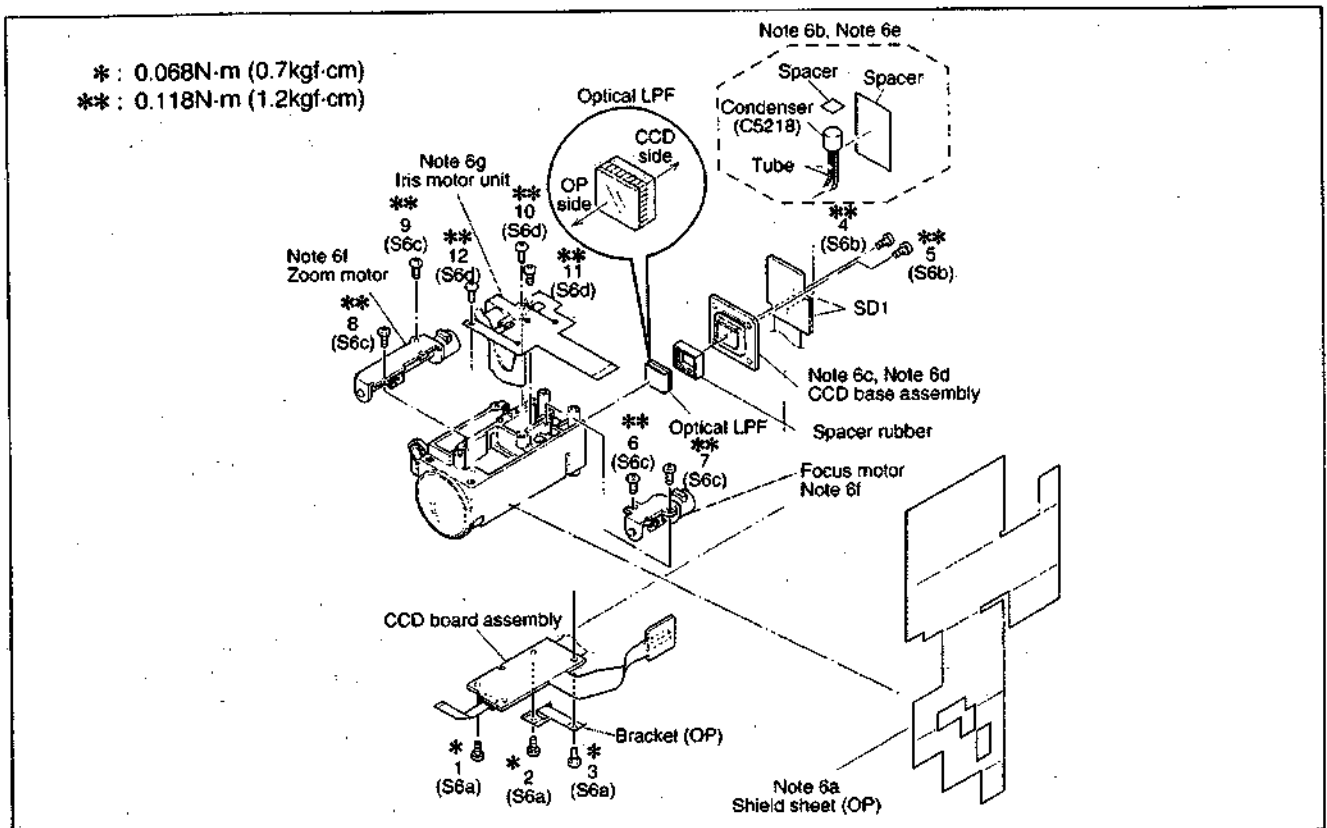


Fig. 1-6-1

1.7 CONNECTION OF CONNECTORS

LIST<DISASSEMBLY>

: Connector of removed component during disassembly

No.	Fig No.	Symbol	Connected point	Pin No.	Class	Nota / Patch cord
1	Fig.1-3-1	(A)	STROBE UNIT ↔ DSC PWB	12PIN	FPC	NC
2	Fig.1-3-1	(B)	DSC PWB ↔ LENS SHUTTER UNIT	8PIN	FPC	NC
3	Fig.1-3-1	(C)	DSC PWB ↔ MIC UNIT	3PIN	WIRE	NC
4	Fig.1-3-2	(D)	JACKS PWB ↔ MAIN PWB	33PIN	FPC	35084550/35084560
5	Fig.1-3-2	(E)	MONITOR PWB ↔ MAIN PWB	57-60PIN	(B-B)	35118150/35118160
6	Fig.1-3-3	(F)	MONITOR PWB ↔ VF BL PWB	22-20PIN	FPC	35040940/35040930
7	Fig.1-3-4	(G)	MONITOR PWB ↔ MONITOR BL PWB	39PIN(18+18+3)	FPC	DIRECT
8	Fig.1-3-5	(H)	MONITOR PWB ↔ SPEAKER	2PIN	WIRE	DIRECT
9	Fig.1-3-6	(J)	DSC PWB ↔ REG PWB	30PIN	(B-B)	DIRECT
10	Fig.1-3-6	(K)	DSC PWB ↔ OP BLOCK	24PIN	FPC	35118230/35118240
11	Fig.1-3-6	(L)	DSC PWB ↔ MAIN PWB	130PIN	B-B	35118090
12	Fig.1-3-8	(M)	MAIN PWB ↔ FRONT PWB	30PIN	(B-B)	DIRECT
13	Fig.1-3-8	(N)	MAIN PWB ↔ PRE/REC PWB	20PIN	(B-B)	DIRECT
14	Fig.1-3-8	(O)	MAIN PWB ↔ MDA PWB	40PIN	(B-B)	DIRECT
15	Fig.1-3-8	(P)	MAIN PWB ↔ REG PWB	80PIN	(B-B)	DIRECT
16	Fig.1-3-8	(Q)	MAIN PWB ↔ CCD PWB	60PIN	(B-B)	DIRECT
17	Fig.1-3-8	(R)	MAIN PWB ↔ POWER UNIT	12PIN	FPC	35064960/35064970
18	Fig.1-3-9	(S)	VCO PWB ↔ CCD PWB	6PIN	FPC	35041070/35041060
19	Fig.1-3-10	(T)	REG PWB ↔ ZOOM UNIT	6PIN	FPC	35041070/35041060
20	Fig.1-3-11	(U)	REG PWB ↔ DECK OPE	6PIN	FPC	35041070/35041060
21	Fig.1-3-12	(V)	FRONT PWB ↔ ROTARY ENCODER	6PIN	FPC	35041070/35041060
22	Fig.1-3-13b	(W)	MDA PWB ↔ LOADING MOTOR	6PIN	FPC	DIRECT
23	Fig.1-3-13b	(X)	MDA PWB ↔ CAPSTAN MOTOR	18PIN	FPC	DIRECT
24	Fig.1-3-13b	(Y)	MDA PWB ↔ DRUM MOTOR	11PIN	FPC	DIRECT
25	Fig.1-3-13c	(Z)	MDA PWB ↔ SENSOR	15PIN	FPC	35042690/35042680
26	Fig.1-3-14	(a)	PRE REC PWB ↔ HEAD	8PIN	FPC	DIRECT
27	-	-	REG PWB ↔ JIG CONN	30PIN	B-B	35118100
28	Fig.1-5-1	(a)	MONITOR BL PWB ↔ DIAL PWB	6PIN	FPC	-
29	Fig.1-5-1	(b)	MONITOR BL PWB ↔ MONITOR BL PWB	18-39PIN	FPC	-
30	Fig.1-5-1	(c)	MONITOR BL PWB ↔ MONITOR BL PWB	18-39PIN	FPC	-
31	Fig.1-5-1	(d)	MONITOR BL PWB ↔ LCD MODULE	24PIN	FPC	-

Table 1-7-1

1.8 CONNECTION OF CONNECTORS (PATCH CORDS)

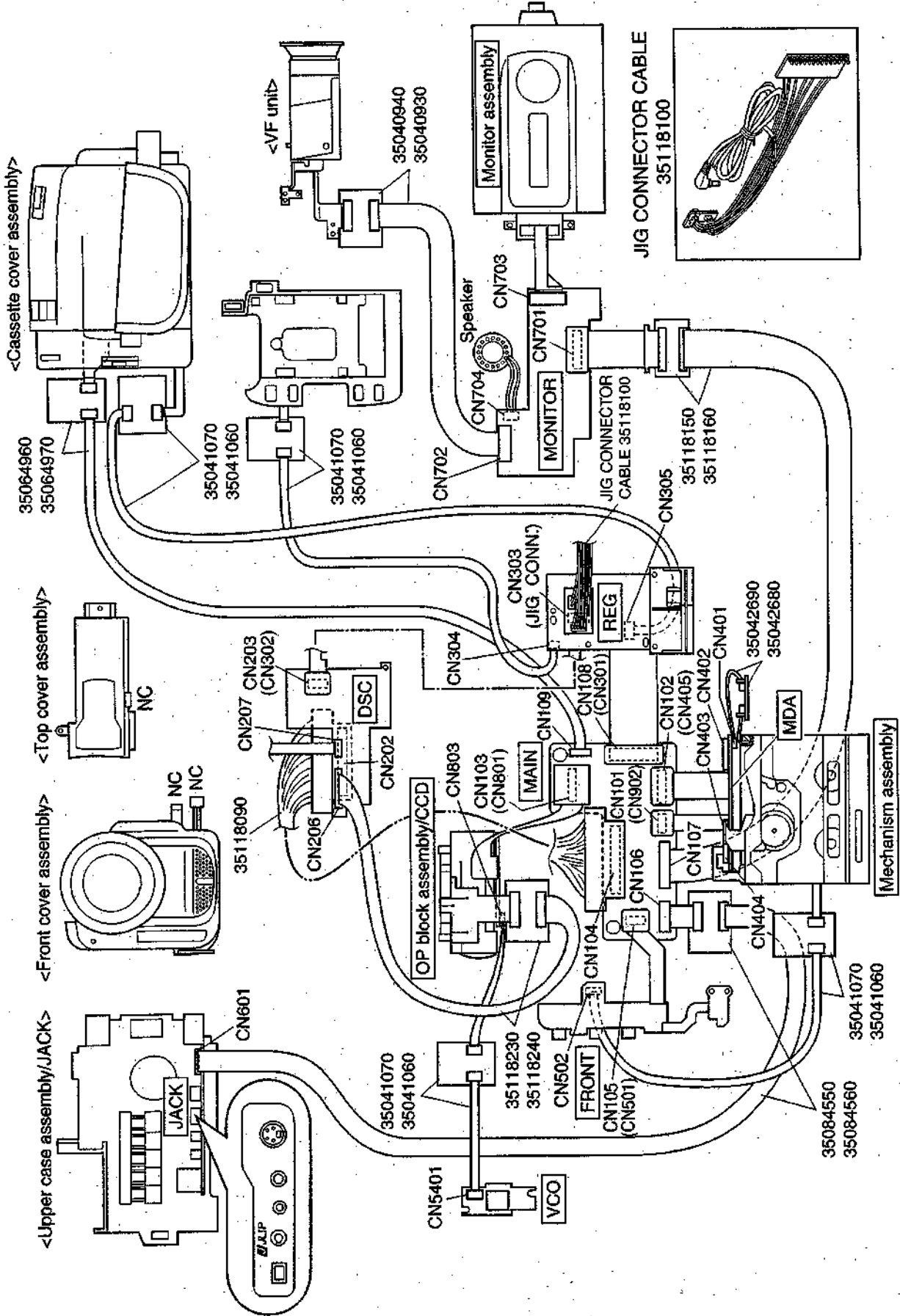


Fig. 1-8-1

1.9 HOW TO TAKE OUT CASSETTE TAPE

If the cassette tape cannot be ejected out of the cassette housing because of some electrical failure, take it out manually in the way mentioned below.

From viewpoints of workability and reliability, it is recommended to dismantle the covers and exterior components so that the cassette tape can be taken out from the cassette housing without trouble, because the following is an emergency measure to the end.

1. Disconnect the power source (battery, DC cord) from the set.
2. Open the cassette cover and remove the four screws from both sides.

Note: Don't reuse the screw that was once removed, because screw locking agent was applied to the tip of the respective screws. Be sure to use new screws when refitting the cassette cover to the set.

If the exterior component (lower case assembly in this case) is removed for taking out the cassette tape, it is needless to remove those screws.

3. Detach the cassette cover from the arms, and open it to the full extent paying heed to the FPC.

Note: Pay careful attention to the FPC not to break its wire and not to damage itself, because the FPC is connected between the cassette cover and main body.

4. Supply 3 V DC to the electrodes of the loading motor in order to slide the slide deck assembly forwards, and stop the power supply when both the pole bases come into the unloading status inside the tape. Be careful not

to damage or soil the tape with grease, etc., because the tape has not been wound up in this condition. If unloading operation continues after both the pole bases have returned inside the tape, the mechanism enters the eject mode and the cassette housing assembly is raised up. Be very careful not to get the mechanism to fall into such the situation, for, such the status may damage the tape because the slack part of the tape may be possibly caught in the cassette lid. After the cassette cover is opened, hold it remaining open with adhesive tape or the like so that it does not shut down as the cassette housing assembly is raised up. (Refer to Fig. 1-9-1)

5. Take in the slack of the tape by turning the center gear assembly with a sharp-pointed thing (for example, the chip IC replacing jig, etc.) in the direction of the arrow. Be careful not to damage the tape during winding.

If the tape cannot be wound up by turning the center gear assembly, it is caused by the wrong mechanism mode in which the idler arm assembly and reel disk assembly are badly engaged with each other. In such the case, shift the mechanism mode so as to slightly return to the loading direction and fine adjust it.

6. Make sure that the slack of the tape is completely taken up, and make the mechanism continue unloading mode until it reaches the eject position. Then, take out the cassette tape.

7. After taking the cassette tape out of the cassette housing, check to see if the tape is not soiled with grease, etc. At the same time, check the mechanism assembly, particularly the tape transport system, if there is nothing soiled.

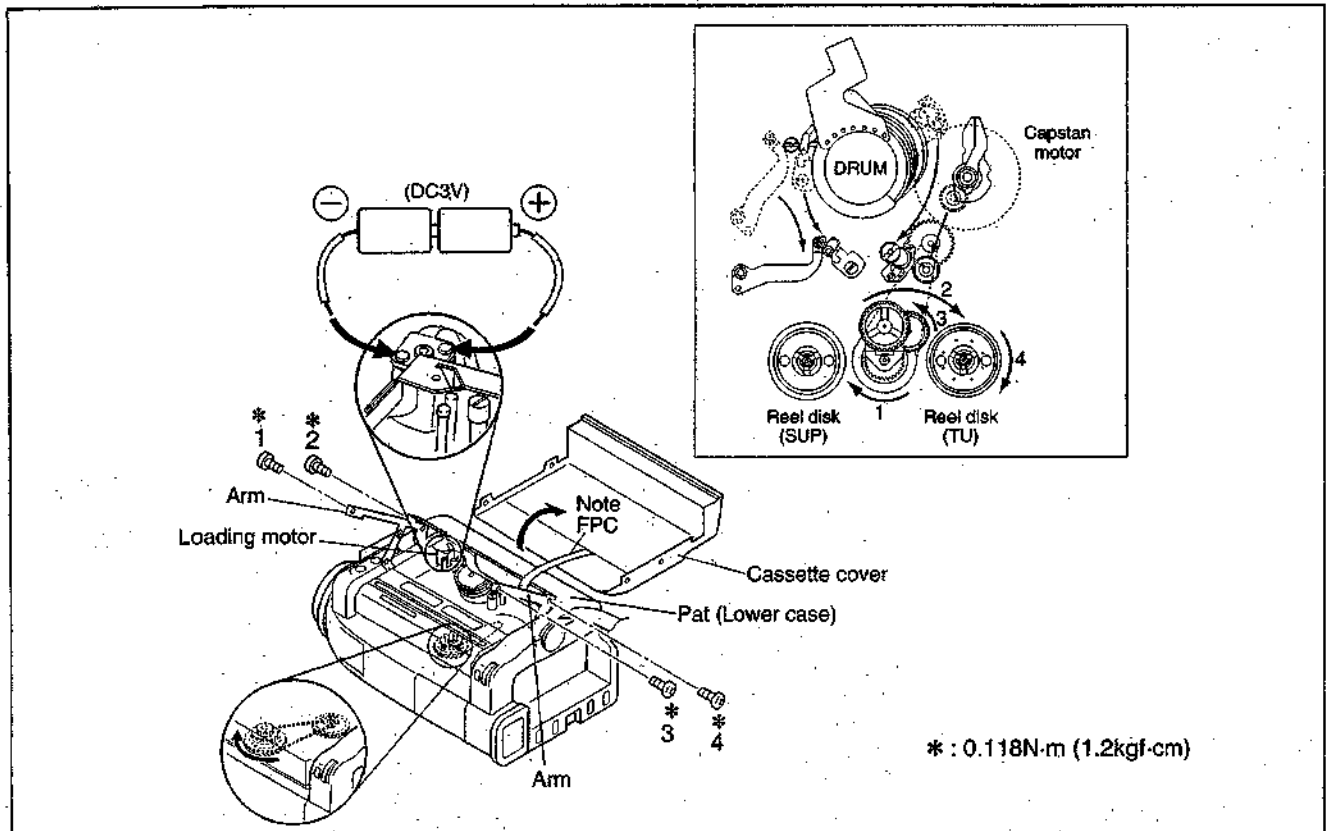


Fig. 1-9-1

1.11 EMERGENCY DISPLAY

LCD display	Emergency mode	Details	Possible cause
E01	LOADING	In the case the encoder position is not shifted to the next point though the loading motor has rotated in the loading direction for 4 seconds or more. This error is defined as [E01].	<ol style="list-style-type: none"> 1. The mechanism is locked during mode shift. 2. The mechanism is locked at the mechanism loading end, because the encoder position is skipped during mechanism mode shift. 3. No power is supplied to the loading MDA.
E02	UNLOADING	In the case the encoder position is not shifted to the next point though the loading motor has rotated in the unloading direction for 4 seconds or more. This error is defined as [E02].	<ol style="list-style-type: none"> 1. The mechanism is locked during mode shift. 2. The mechanism is locked at the mechanism loading end, because the encoder position is skipped during mechanism mode shift.
E03	TU & SP REEL FG	In the case no REEL FG is produced for 4 seconds or more in the capstan rotation mode after loading was complete, the mechanism mode is shifted to STOP with the pinch roller set off. This error is defined as [E03]. However, no REEL EMG is detected in the SLOW/STILL mode.	<ol style="list-style-type: none"> 1. The idler gear does not engage with the reel disk well. 2. Though the idler gear and reel disk are engaged with each other, the tape is not wound because of overload to the mechanism. 3. No FG pulse is output from the reel sensor. 4. No power is supplied to the reel sensor. 5. Tape transport operation takes place with a cassette having no tape inside. 6. The tape slackens and no pulse is produced until the slack is taken up and the tape comes into the normal status.
E04	DRUM FG	In the case there is no DRUM FG input in the drum rotation mode for 4 seconds or more. This error is defined as [E04], and the mechanism mode is shifted to STOP with the pinch roller set off.	<ol style="list-style-type: none"> 1. The drum cannot be started or drum rotation is stopped because tape transport load is too high. <ol style="list-style-type: none"> 1) Tape tension is extremely high. 2) The tape is damaged or soiled with grease, etc. 2. The DRUM FG signal is not received by the syscon CPU. <ol style="list-style-type: none"> 1) Disconnection in the middle of the signal line. 2) Failure of the DRUM FG pulse generator (hall element). 3. No drum control voltage is supplied to the MDA. 4. No power is supplied to the DRUM MDA.
E05	-	-	-
E06	CAPSTAN FG	In the case no CAPSTAN FG is produced in the capstan rotation mode for 2 seconds or more. This error is defined as [E06], and the mechanism mode is shifted to STOP with the pinch roller set off. However, no CAPSTAN EMG is detected in the STILL/FF/REW mode.	<ol style="list-style-type: none"> 1. The CAPSTAN FG signal is not received by the syscon CPU. <ol style="list-style-type: none"> 1) Disconnection in the middle of the signal line. 2) Failure of the CAPSTAN FG pulse generator (MR element). 2. No capstan control voltage is supplied to the MDA. 3. No power is supplied to the CAPSTAN MDA. 4. The capstan cannot be started or capstan rotation is stopped because tape transport load is too high. <ol style="list-style-type: none"> 1) Tape tension is extremely high. (Mechanical locking) 2) The tape is damaged or soiled with grease, etc. (Tape tangling occurs, etc.)

Table 1-11-1

(DVC_02)

SECTION 2 MECHANISM ADJUSTMENT

2.1 PRELIMINARY REMARKS ON ADJUSTMENT AND REPAIR

2.1.1 Precautions

1. When fastening parts, pay careful attention to the tightening torque of each screw. Unless otherwise specified, tighten a screw with the torque of 0.039 N·m (0.4 kgf·cm).
2. Be sure to disconnect the set from the power supply before fastening and soldering parts.
3. When disconnecting/connecting wires, be careful not to get them and their connectors damaged. (Refer to the Section 1.)
4. When replacing parts, be very careful neither to damage other parts nor to fit wrong parts by mistake.

2.1.2 Necessary jigs

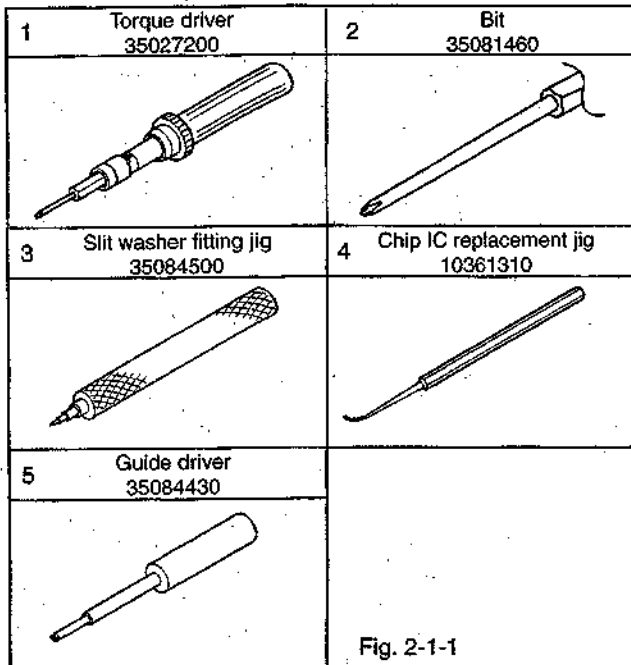


Fig. 2-1-1

2.1.3 Notes on procedure for disassembly/assembly

The disassembling procedure table (Table 2-2-2 on page 22, a part of the table is shown below for reference) shows the procedure to disassemble/reassemble mechanism parts. Carefully read the following explanation before starting actual disassembling/reassembling work. The item numbers (circled numbers) in the following explanation correspond to those appearing under respective columns of the table.

- (1) Circled numbers appearing in this column indicate the order to remove parts. When reassembling, follow these numbers in the reverse order. Circled numbers in this column correspond to those appearing in drawings of this section.
- (2) This column shows part names corresponding to circled numbers in the left column.
- (3) The symbol (T or B) appearing in this column shows the side which the objective part is mounted on.
T = the upper side, B = the lower side
- (4) Symbols appearing in this column indicate drawing numbers.
- (5) This column indicates parts and points such as screws, washers, springs, and others to be removed/fitted for disassembling/reassembling the mechanism. Besides such the parts, this column occasionally indicates working points.
P = Spring
W = Washer
S = Screw
* = Lock (L), soldering (SD), shield, connector (CN), etc.
- Example
 - Remove (W1) = Washer W1.
 - * Remove the solder at (SD1) = Point SD1.
 - * Disconnect (A) = Connector (A).
- (6) Numbers in this column represent the numbers of notes in the text. For example, "1" means "Note 1". (For parts that need phase adjustment after reassembling, refer to "2.2.7 Check and adjustment of mechanism phase".)
- (7) This column indicates required after-disassembling/reassembling work such as phase adjustment or mechanism adjustment.

Step	Part Name	Fig.	Point	Note	Remarks
(A)	Cassette housing assembly	T 1	3(S1),(L1a)-(L1d)	1a, 1b, 1c, 1d	Adjustment
(2a)	Reel disk (SUP) assembly	T 2	(W2)	2a, 2b	
(2b)	Reel disk (TU) assembly	T 2	(W2)	2a, 2b	
(2c)	Reel cover assembly	T 2	(S2b),2(S2a),(W2)	2d	
(3a)	Tension arm assembly	T 3	(W3a)	3b	

↑
(1)

↑
(2)

↑
(3)

↑
(4)

↑
(5)

↑
(6)

↑
(7)

2.2 DISASSEMBLY/ASSEMBLY OF MECHANISM ASSEMBLY

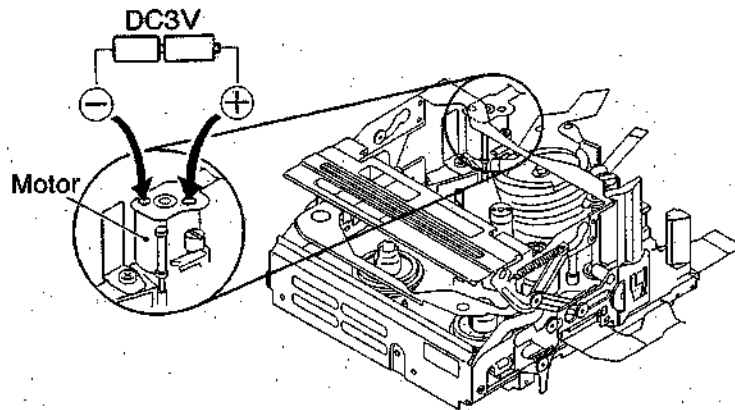
2.2.1 General statement

The mechanism should generally be disassembled/assembled in the EJECT mode (ASSEMBLY mode). (Refer to Fig. 2-2-1.)

However, when the mechanism is removed from the main body, it is set in the STOP mode. Therefore, it is required to

shift the mechanism mode from the STOP mode to the EJECT mode after the mechanism is removed from the main body. In such the case, supply 3 V DC to the electrode on the top of the loading motor to enter the mechanism mode into the EJECT mode.

<Mechanism assembly/Cassette housing assembly>



<Back side of the mechanism assembly>

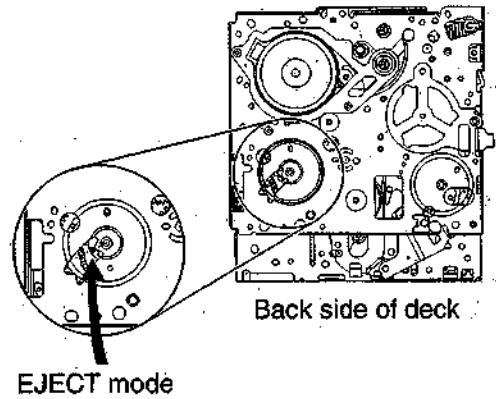


Fig. 2-2-1

2.2.2 Explanation of mechanism mode

The mechanism mode of this model is classified into six modes as shown in Table 2-2-1. Each mechanism mode can be distinguished from others by the relative position of "●" mark on the sub cam gear to the inner or outer protrusion on the main deck.

Refer to Fig. 2-2-2 to 2-2-7 below.

The EJECT mode, C IN mode and SHORT FF mode should be recognized by the relative position of the "●" mark to the inner protrusion, while the STOP mode, REV mode and PLAY mode should be recognized by that to the outer protrusion.

<EJECT mode>

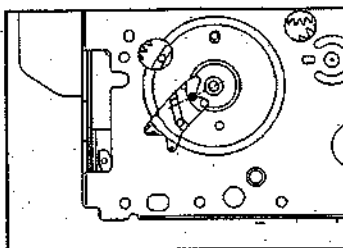


Fig. 2-2-2

<C IN mode>

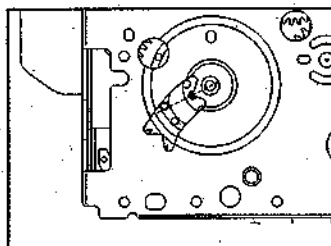


Fig. 2-2-3

<SHORT FF mode>

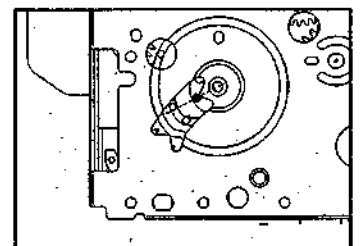


Fig. 2-2-4

<STOP mode>

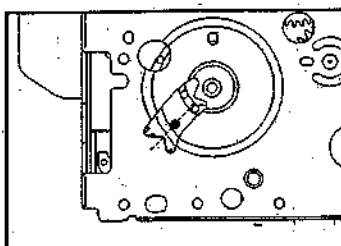


Fig. 2-2-5

<REV mode>

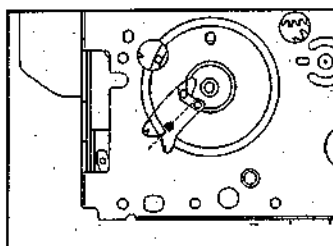


Fig. 2-2-6

<PLAY mode>

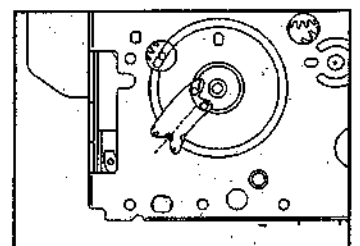


Fig. 2-2-7

2.2.3 Mechanism timing chart

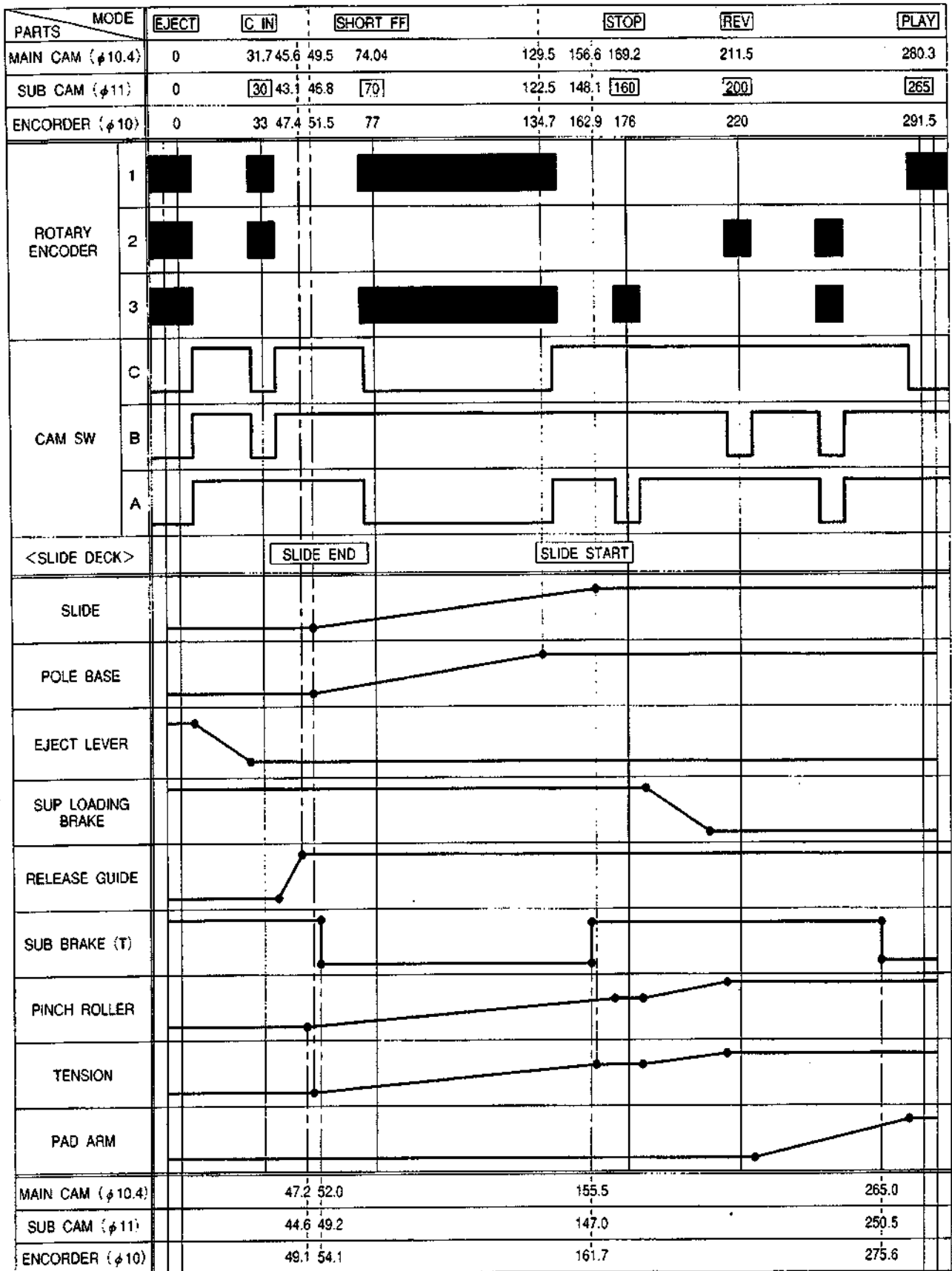


Table 2-2-1

3. Disassembling procedure table

Step	Part Name	Fig.	Point	Note	Remarks
(A) Cassette housing assembly		T 1	3(S1),(L1a)-(L1d)	1a, 1b, 1c, 1d	Adjustment
(2a)	Reel disk (SUP) assembly	T 2	(W2)	2a, 2b	
(2b)	Reel disk (TU) assembly	T 2	(W2)	2a, 2b	
(2c)	Reel cover assembly	T 2	(S2b),2(S2a),(W2)	2d	
(3a)	Tension arm assembly	T 3	(W3a)	3b	
(3b)	Release guide assembly	T 3	-	3a	
(3c)	Idler arm assembly	T 3	(W3b)	-	
(3d)	Guide arm assembly	T 3	-	3a	
(3e)	Pinch roller arm assembly	T 3	(W3a)	-	
(4a)	Cleaner arm assembly	T 4	(L4a)	4a	
(4b)	Slant pole arm assembly	T 4	(W4),(L4b),(P4a),(P4b)	4c	
(4c)	Drum assembly	T 4	3(S4)	4b	
(5a)	Guide roller (S) assembly	T 5	(P5)	5a, 5b	
(5b)	Rail assembly	T 5	3(W5)	5c, 5d	
(B) Slide deck assembly / (C) Main deck assembly		T 6	(W6),(L6a)-(L6d)	6a, 6b	(Adjustment)
(B) Slide deck assembly					
(7a)	Loading brake assembly	T 7	(W7),(L7a),(P7a)	7c	Adjustment
(7b)	Guide pin (SUPPLY)	T 7	(S7a)	-	
(7c)	Pad arm assembly	T 7	(W7),(L7b),(P7b)	7d	
(7d)	Slide guide plate assembly	T 7	(S7b)	7c	Adjustment
(7e)	Collar	T 7	-	7a	
(7f)	Collar	T 7	-	7a	
(7g)	Sub brake assembly	T 7	(W7),(L7c),(P7c)	7b	
(7h)	Control plate assembly	T 7	2(W7),(L7d),(P7d)	7b	
(C) Main deck assembly					
(8a)	Tension lever assembly	T 8	-	8c	
(8b)	Slide lever assembly	T 8	-	8b	
(8c)	Brake control lever assembly	T 8	-	8a	
(9a)	Loading guide	T 9	(S9)	-	
(9b)	Timing belt	T 9	-	9b	
(9c)	Center gear assembly	T 9	-	-	
(9d)	Motor bracket assembly	T 9	2(S9)	9a	
(9e)	Worm wheel	T 9	(W9)	-	(Phase adjustment)
(9f)	Gear holder	T 9	(S9)	-	
(10a)	Main cam gear	T 10	(S10)	10b	Phase adjustment
(10b)	Brake control plate	T 10	(L10)	10b	Phase adjustment
(10c)	Rotary encoder	T 10	(S10),(W10a)	10a	Phase adjustment
(10d)	Connect gear	T 10	(W10a)	-	(Phase adjustment)
(10e)	Reel drive pulley assembly	T 10	(W10b)	-	
(11a)	Catcher (T) assembly	T 11	2(S11)	-	
(11b)	Capstan motor	T 11	2(S11)	-	
(11c)	Charge arm assembly	T 11	(W11)	11	
(11d)	Sub cam gear	T 11	(S11)	-	Phase adjustment
(11e)	PWB holder	B 11	2(S11)	-	

Table 2-2-2

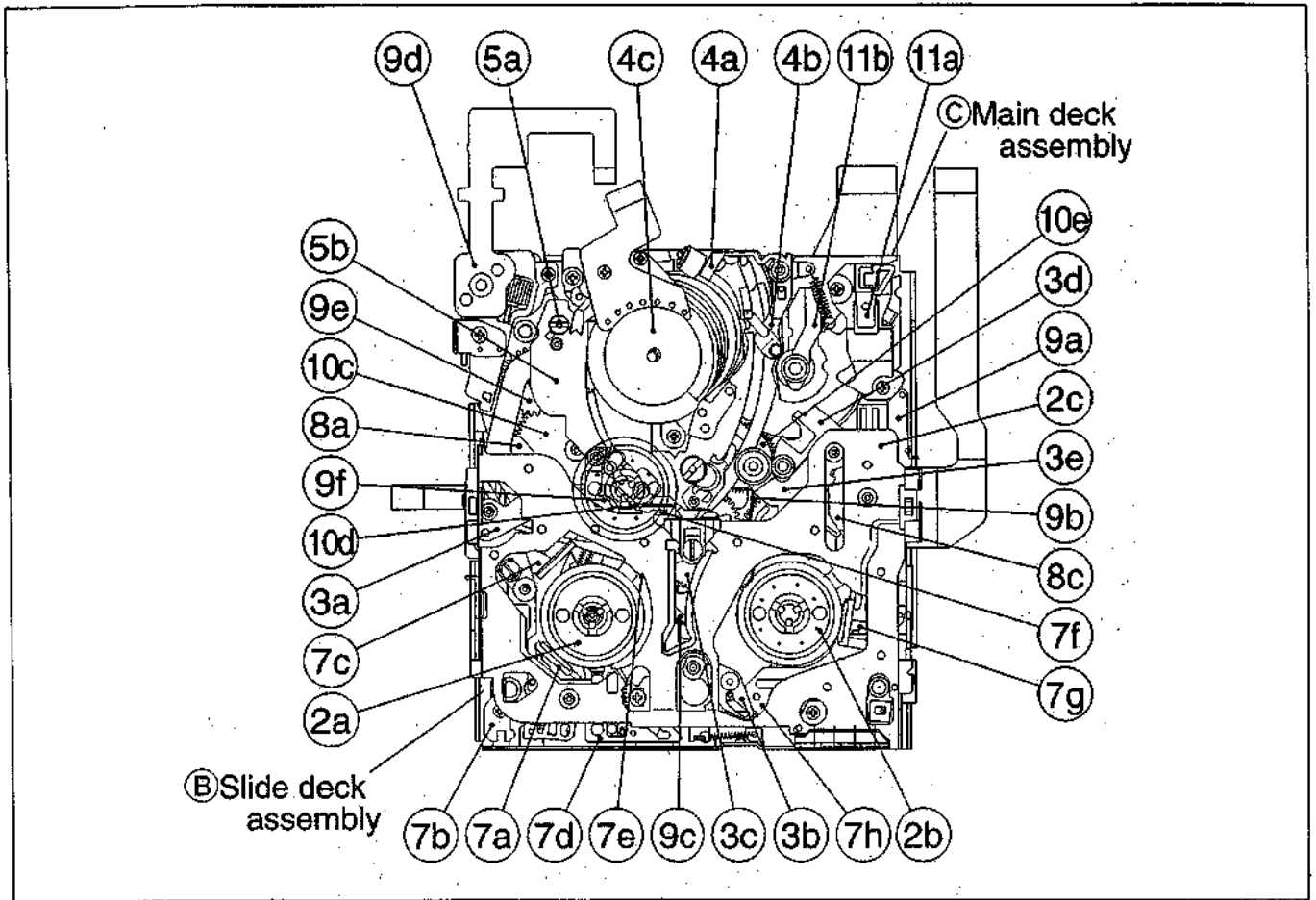


Fig. 2-2-10 Top view

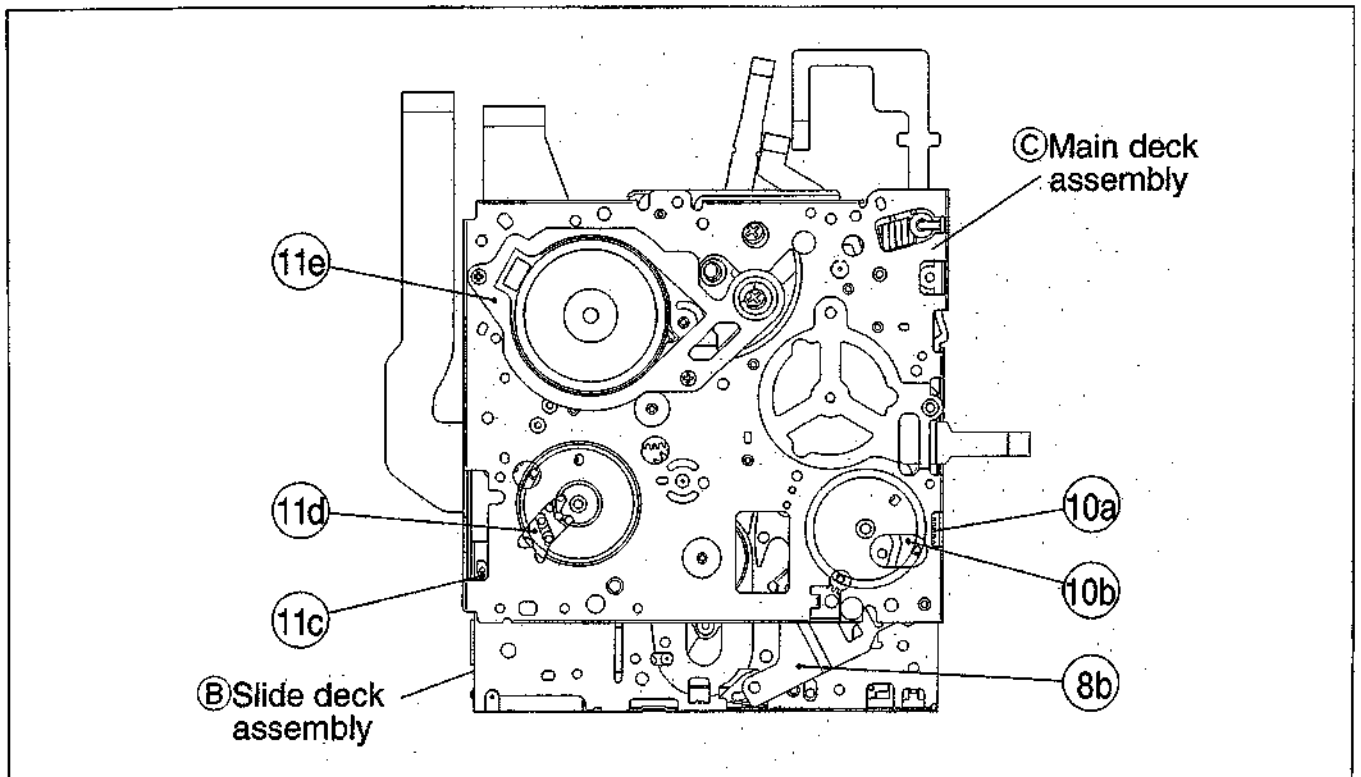


Fig. 2-2-11 Bottom view

2.2.5 Disassembly/assembly

1. (A) Cassette housing assembly

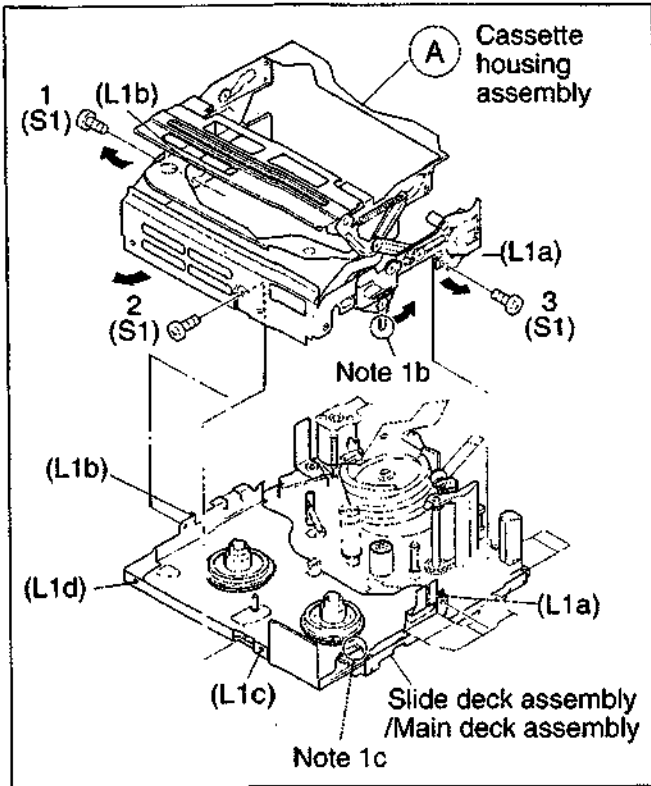


Fig. 1

2. (2a) Reel disk (SUP) assembly
- (2b) Reel disk (TU) assembly
- (2c) Reel cover assembly

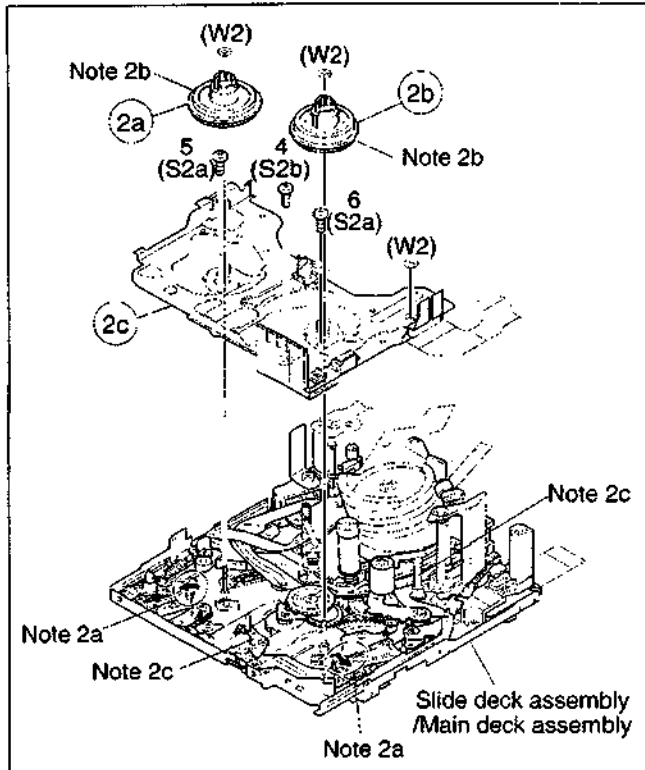
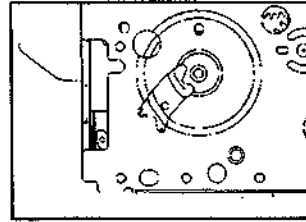
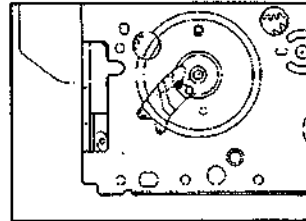


Fig. 2

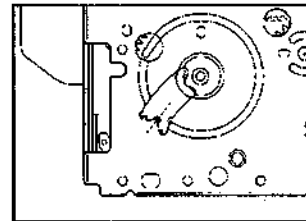
<STOP mode>



<EJECT mode>



<PLAY mode>



Note 1a:

Shift the mechanism mode from the STOP mode to the EJECT mode.

Note 1b:

Reassemble the cassette housing assembly to the mechanism as the cancel lever is moved in the direction of the arrow.

Note 1c:

When reassembling the cassette housing to the mechanism, make sure that there is no deformation in the frame or no damage to the switches, etc.

Note 1d:

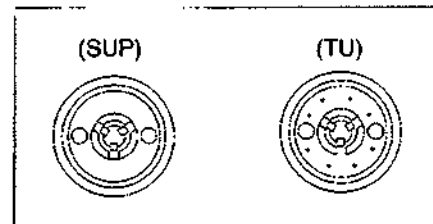
After reassembling the component parts, check the mechanism operation in the PLAY mode. For details of checking method, refer to "2.2.8 assembling slide deck assembly and main deck assembly".

Note 2a:

When removing the reel disk assembly, be careful not to break the brake pad which applies lateral pressure to the reel disk.

Note 2b:

Be careful not to make a mistake in installing the reel disk. The SUP reel disk and TU reel disk can be distinguished from each other by the appearance as shown below.



Note 2c:

When removing the reel cover assembly, pay heed to the guide arm assembly. For, the guide arm assembly is just inserted into the slide deck assembly from the upside and it is apt to come off after the reel cover assembly is removed.

Note 2d:

When fitting the reel cover assembly to the set, carefully tighten the screw with the specified tightening torque of 0.068N·m (0.7kgf·cm).

3. (3a) Tension arm assembly/ (3b) Release guide assembly
 (3c) Idler arm assembly/ (3d) Guide arm assembly
 (3e) Pinch roller arm assembly

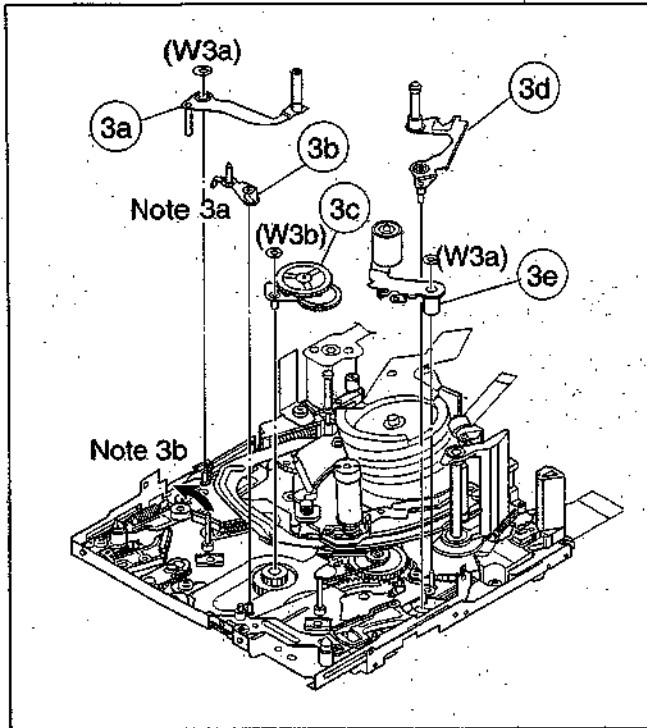


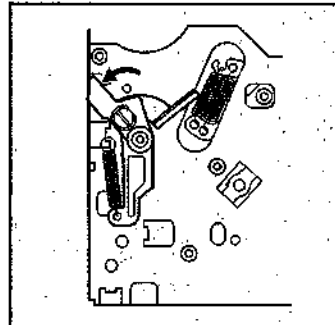
Fig. 3

Note 3a:

When removing the reel cover assembly, pay heed to release guide assembly and guide arm assembly. For, the guide arm assembly is just inserted into the slide deck assembly from the upside and it is apt to come off after the reel cover assembly is removed.

Note 3b:

Reassemble the tension arm assembly to the mechanism as the pad arm assembly is moved to the extent in the direction of the arrow.



4. (4a) Cleaner arm assembly/ (4b) Slant pole arm assembly
 (4c) Drum assembly

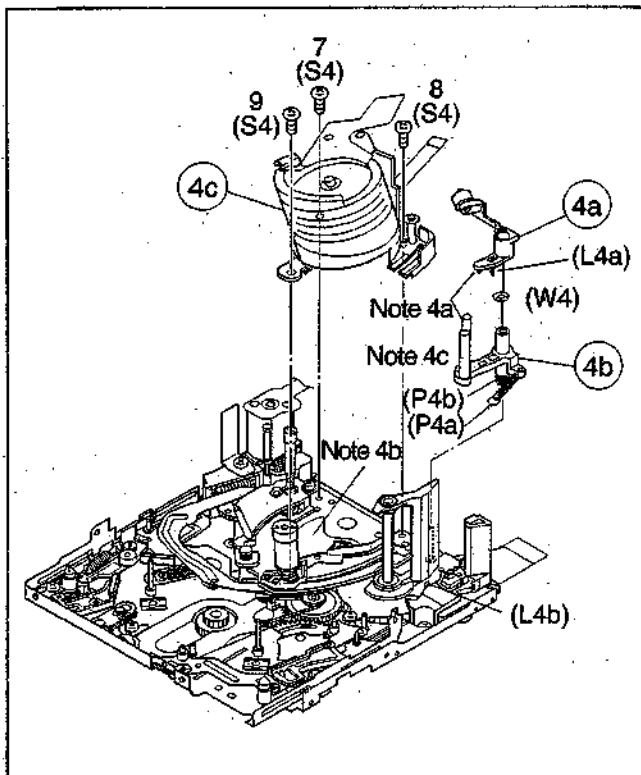


Fig. 4

Note 4a:

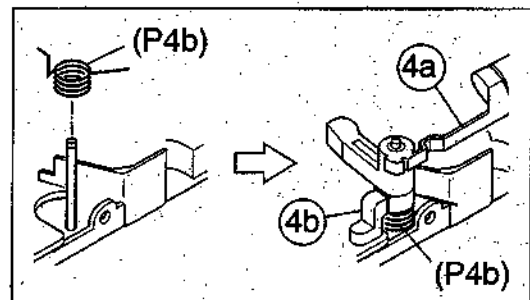
When removing the cleaner arm assembly, it is recommended to remove the slant pole arm assembly together with it except the case of a single unit replacement, because the hook (L4a) is hard to disengage.

Note 4b:

When the shield is applied, carefully remove the drum final assembly because the drum is stuck to the shield.

Note 4c:

How to set the coil spring (P4b).



5. 5a Guide roller (SUPPLY) assembly/ 5b Rail assembly

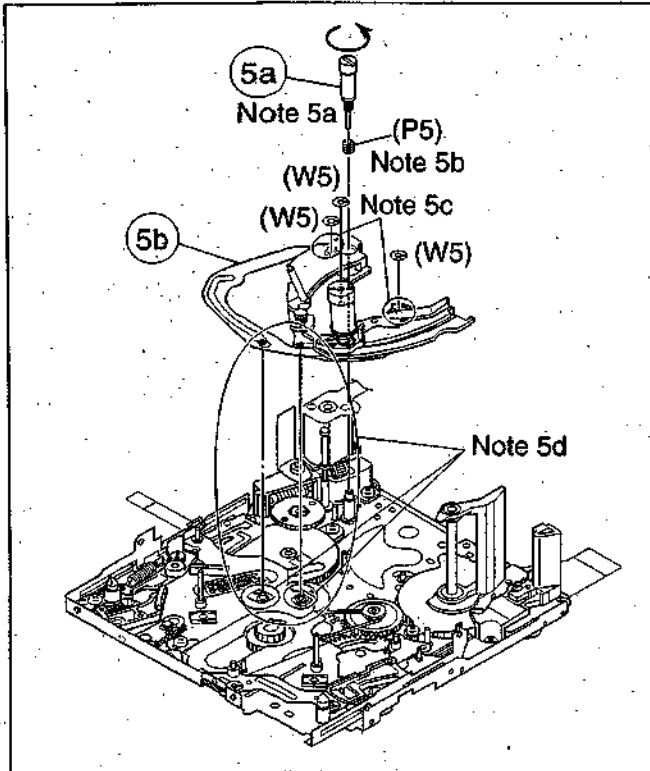


Fig. 5

Note 5a:

When removing the rail assembly, remove the guide roller (SUPPLY) assembly beforehand.

Note 5b:

Pay careful attention to the spring not to lose it.

Note 5c:

Pay careful attention to the engagement of the rail assembly's arm ends because they easily come off the engagement. Moreover, make sure that there is neither deformation nor damage observed in them.

Note 5d:

When removing the rail assembly, check to see if the collar is securely set in the arm groove.

6. 6a Slide deck assembly/ 6c Main deck assembly

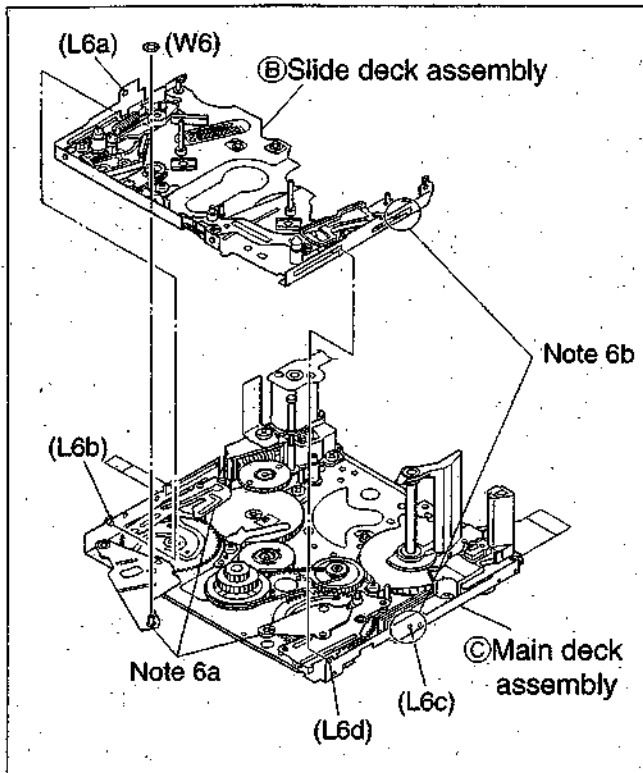


Fig. 6

Note 6a:

When removing the slide deck assembly, pay heed to the three components of the following because they are apt to come off after the slide deck assembly is removed.

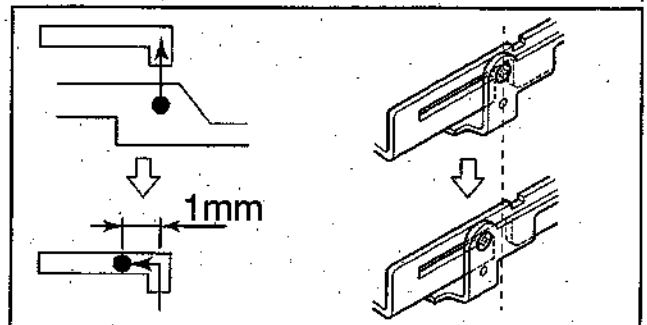
8a Tension lever assembly/ 8b Slide lever assembly

8c Brake control lever assembly

For reassembling those components, refer to Fig. 8.

Note 6b:

When reassembling the slide deck assembly to the main deck assembly, combine them with each other by the side grooves and then slide the slide deck assembly by 1 mm or so.



7. (7a) Loading brake assembly/ (7b) Guide pin (S)
 (7c) Pad arm assembly/ (7d) Slide guide plate assembly
 (7e) Collar/ (7f) Collar/ (7g) Sub brake assembly
 (7h) Control plate assembly

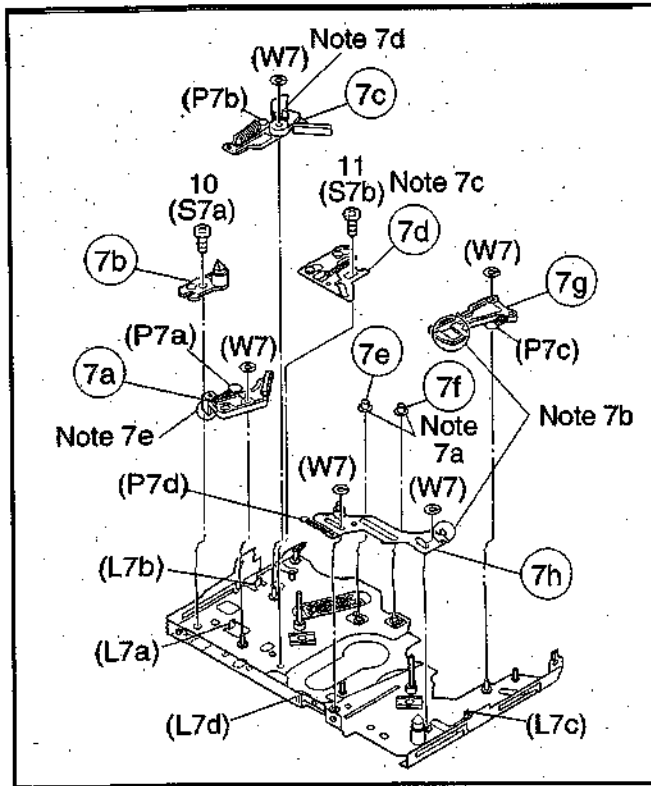


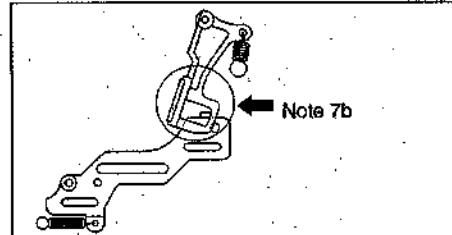
Fig. 7

Note 7a:

Don't remove these parts unreasonably. If they are removed for some reason, be very careful not to lose them.

Note 7b:

When reinstalling the sub brake assembly, set the control plate assembly so that its hook is set in the # part of the sub brake assembly.



Note 7c:

Since the slide guide plate assembly controls the slide deck assembly so that it exactly slides the main deck assembly, it must exactly be assembled in the PLAY mode. Therefore, temporarily fix the slide guide plate assembly in this stage. For details of reassembling procedure, refer to "2.2.8 Assembling slide deck assembly and main deck assembly" on page 32.

Note 7d:

The pad arm assembly controls the tension level of the tension arm assembly. For adjustment of the tension arm assembly, refer to page 25.

Note 7e:

When reinstalling the load brake assembly, slightly lift the slide deck assembly upwards because the lower part of the load brake assembly sticks out of the slide deck assembly.

8. (8a) Tension lever assembly/ (8b) Slide lever assembly
 (8c) Brake control lever assembly

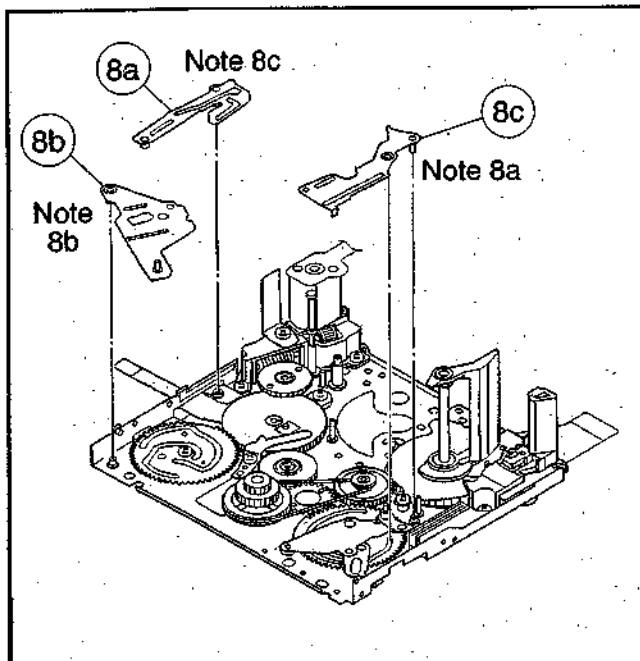
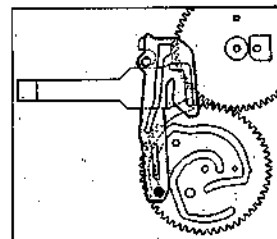


Fig. 8

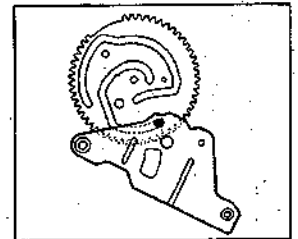
Note 8a, 8b, 8c:

For refitting the respective parts, refer to the following figures

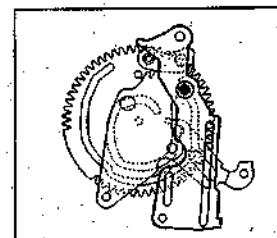
(8a) Tension lever assembly



(8b) Slide lever assembly



(8c) Brake control lever assembly



9. 9a Loading guide/ 9b Timing belt
 9c Center gear assembly/ 9d Motor bracket assembly
 9e Worm wheel/ 9f Gear holder

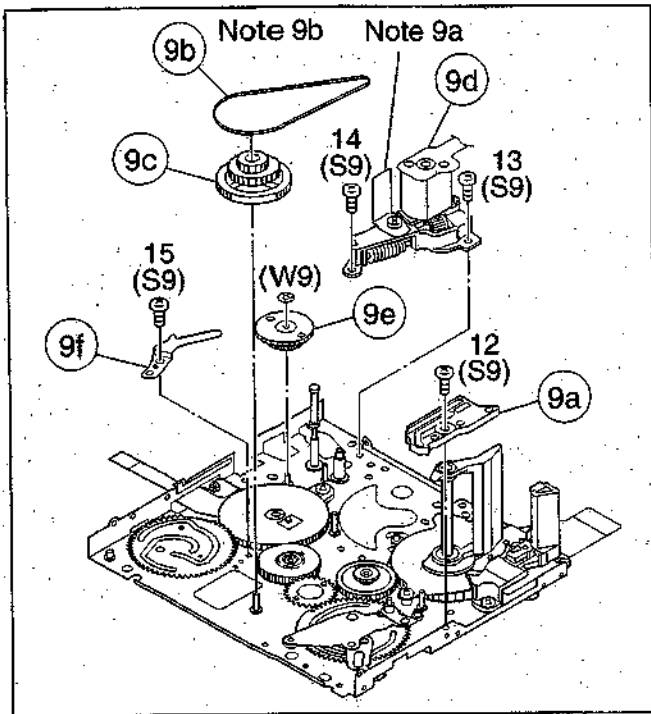


Fig. 9

10. 10a Main cam gear/ 10b Brake control plate
 10c Rotary encoder/ 10d Connect gear
 10e Reel drive pulley assembly

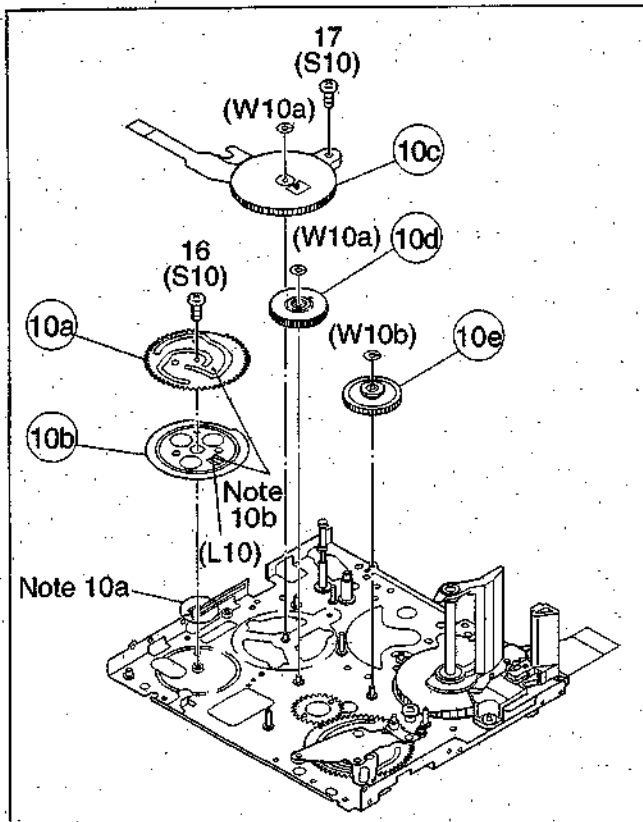


Fig. 10

Note 9a:

Carefully handle the DEW sensor. (Don't touch the sensor surface in particular.)

Note 9b:

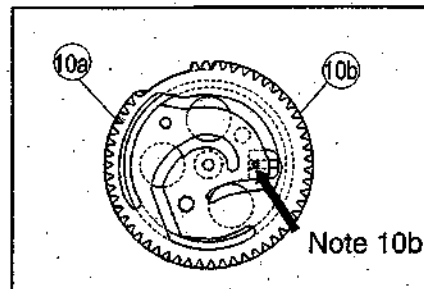
When engaging the timing belt, make sure that it securely engages with the gears of both the center gear assembly and reel drive pulley assembly.

Note 10a:

When removing/refitting parts, pay careful attention to the flexible board and so on not to damage them.

Note 10b:

When reinstalling the main cam gear and the brake control plate, first fit them together so that the protrusion on the brake control plate is set in the slot on the main cam gear as shown below, next install the two together to the main deck assembly.



11. 11a Catcher (T) assembly/ 11b Capstan motor
 11c Charge arm assembly/ 11d Sub cam gear
 11e PWB holder

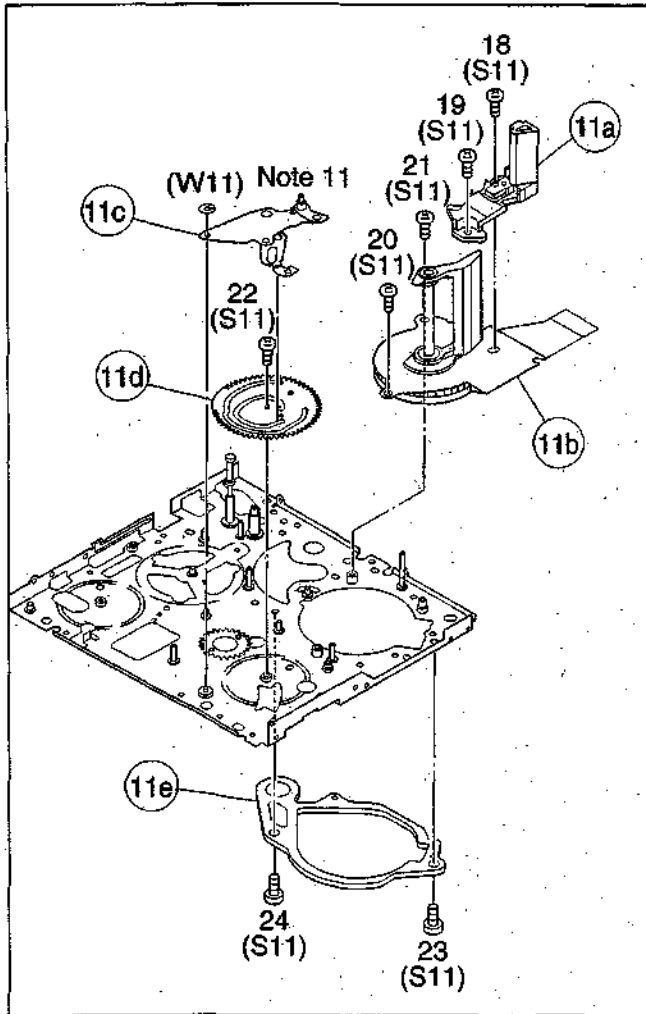
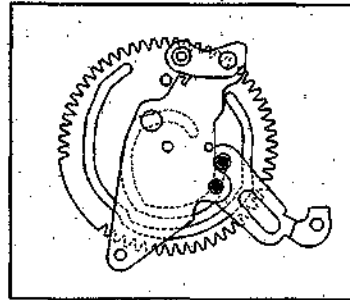


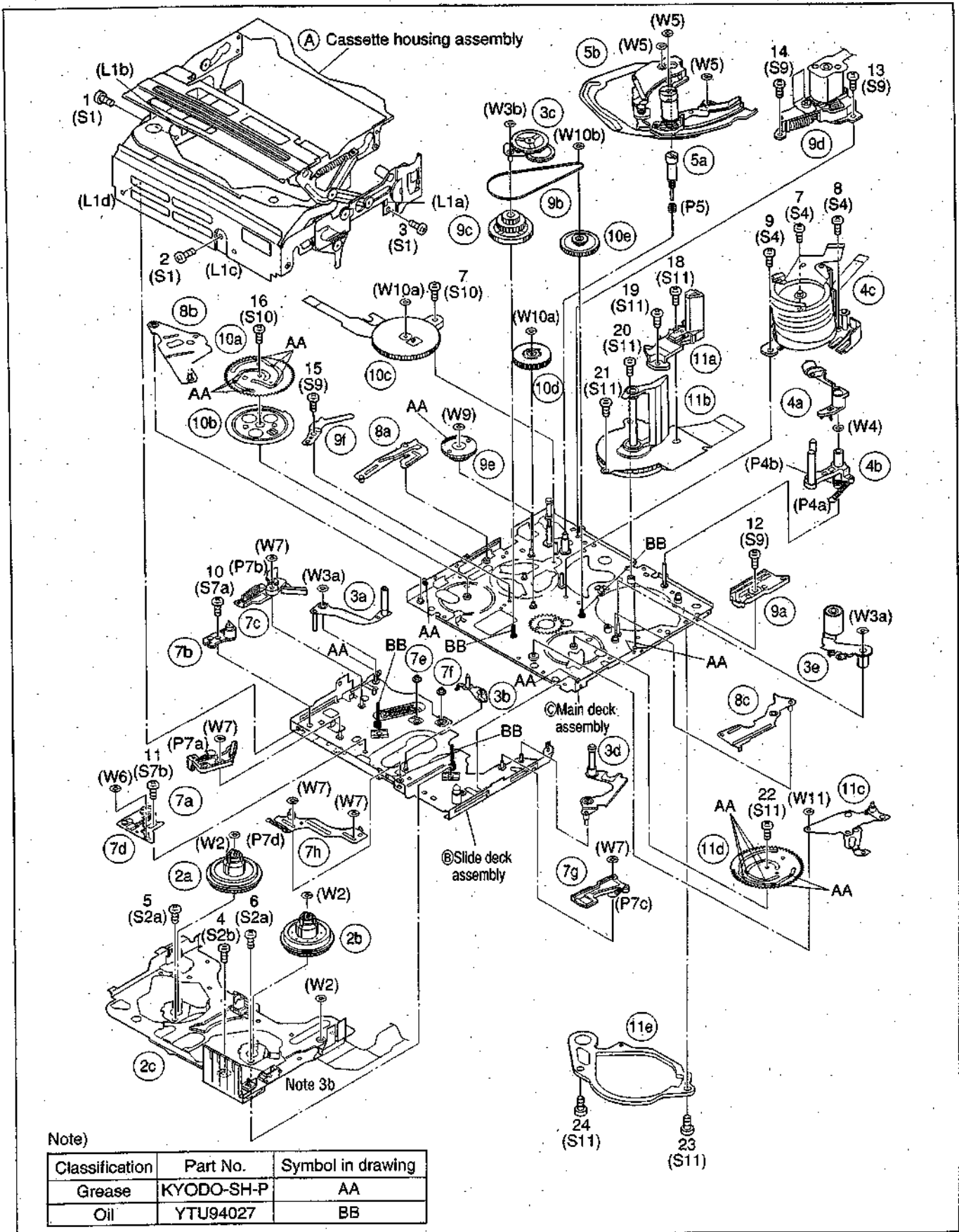
Fig. 11

Note 11:

The following figure shows how to put the charge arm assembly and sub cam gear assembly together.



2.2.6 List of procedures for disassembly



Note)

Classification	Part No.	Symbol in drawing
Grease	KYODO-SH-P	AA
Oil	YTU94027	BB

Fig. 2-2-12

2.2.7 Checkup and adjustment of mechanism phase

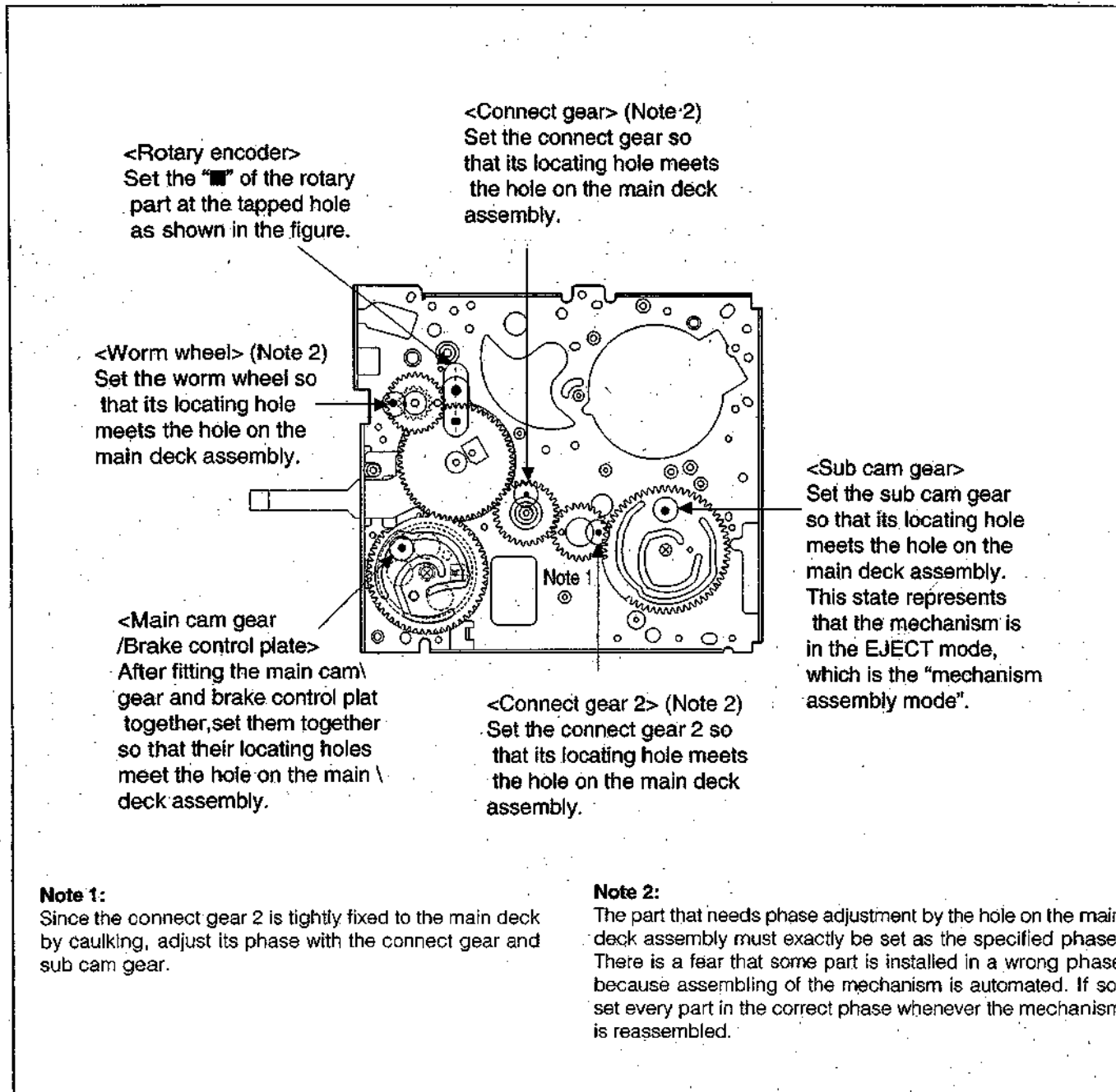


Fig. 2-2-13

2.2.8 Assembling slide deck assembly and main deck assembly

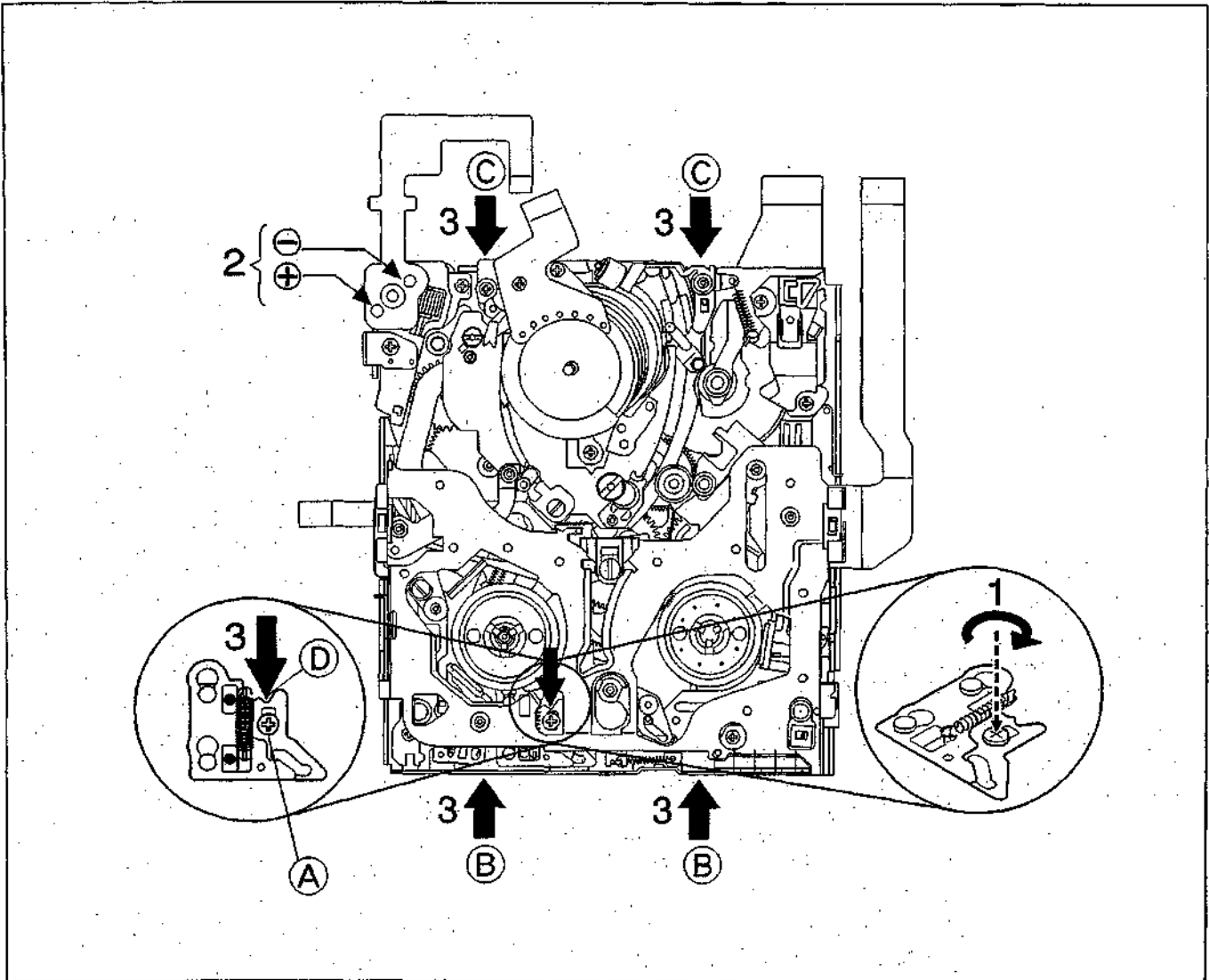


Fig. 2-2-14

Assembling procedure

1. Loosen the screw (A).
2. Set the mechanism in the PLAY mode. (Refer to page 19)
3. Press the end face B of the slide deck assembly (reel disk side) and the end face C of the main deck assembly (drum assembly side) with uniform force so that the two assemblies are tightly pressed to each other. Furthermore, press the part (D) and tighten the screw (A).

Note : Tightening torque for screw (A): 0.029 N·m (0.3 kgf·cm)

2.2.9 Locating tension pole

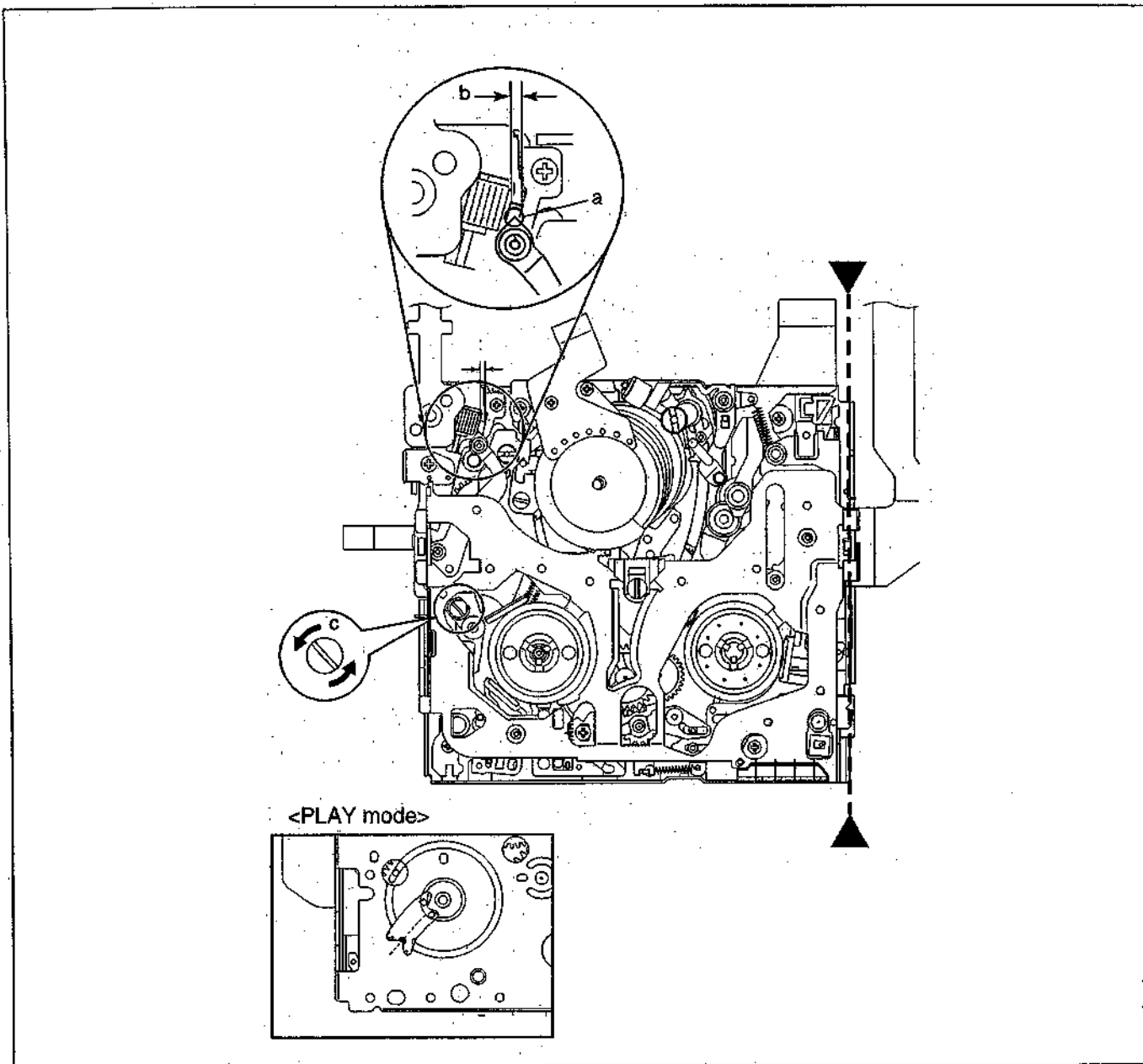


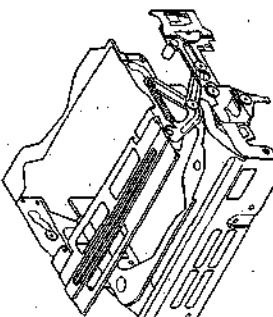


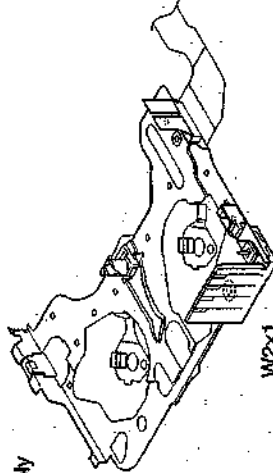






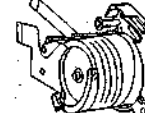
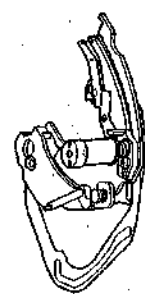

Fig. 2-2-15

Locating procedure

1. Enter the mechanism assembly into the PLAY mode.
(Refer to page 19)
2. When the "▶-----◀" part is positioned down, make sure that the part "a" of the tension arm assembly is located within the range of "b".
3. If the part "a" is out of the range, turn the pin "c" to adjust the position.

2.3 SERVICE NOTE

Use the following chart to manage mechanism parts that are removed for disassembling the mechanism.

<p>1</p> <p>Ⓐ Casette housing assembly</p>  <p>S1x3</p>					
<p>2</p> <p>Ⓐ Reel disk (SUP) assembly</p>  <p>W2x1</p>	<p>Ⓐ Reel disk (TU) assembly</p>  <p>W2x1</p>	<p>Ⓐ Reel cover assembly</p>  <p>S2ax2</p> <p>S2bx1</p> <p>W2x1</p>	<p>Ⓐ Tension arm assembly</p>  <p>W3ax1</p>	<p>Ⓐ Release guide assembly</p>  <p>W3bx1</p>	<p>Ⓐ Pinch roller arm assembly</p>  <p>W3ax1</p>
<p>3</p>	<p>Ⓐ Cleaner arm assembly</p>  <p>W4x1</p>	<p>Ⓐ Slant pole arm assembly</p>  <p>W4x1 P4bx1 P4bx1</p>	<p>Ⓐ Guide arm assembly</p>  <p>W3ax1</p>	<p>Ⓐ Drum assembly</p>  <p>S4x3</p>	<p>Ⓐ Rail assembly</p>  <p>W5x3</p>
<p>4</p>	<p>Ⓐ Guide roller (S) assembly</p>  <p>P5x1</p>				

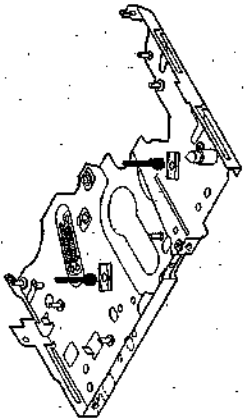












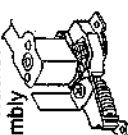








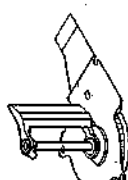
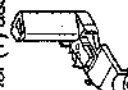



6	 ⑥ Slide deck assembly W6x1	7a) Loading brake assembly W7x1 P7ax1 	7b) Guide pin (SUPPLY) S7ax1 	7c) Pad arm assembly W7x1 P7bx1 	7d) Side guide plate assembly S7bx1 W7x1 
8	 8a) Tension lever assembly W7x2 P7dx1	7e) Collar 	7f) Collar 	7g) Sub brake assembly W7x1 P7cx1 	7h) Control plate assembly W7x2 P7dx1 
9	 9a) Loading guide S9x1 	 8b) Slide lever assembly	 9d) Motor bracket assembly S9x2	 9e) Worm wheel W9x1	 9f) Gear holder S9x1
10	 10a) Main cam gear S10x1 	 9c) Center gear assembly S10x1	 10c) Rotary encoder S10x1 W10ax1	 10d) Connect gear W10ax1	 10e) Reel drive pulley assembly W10bx1
11	 11a) Catcher (T) assembly S11x2 	 11c) Charge arm assembly W11x1	 11d) Sub cam gear S11x1	 11e) PWS holder S11x2	

Table 2-3-1

SECTION 3 ELECTRICAL ADJUSTMENT

3.1 PREPARATION BEFORE ADJUSTMENT

3.1.1 Precautions

Both the deck and camera sections of this model are designed to be adjustment-free. However, if the following part is replaced, the set must be brought into a service center having a complete set of service equipment, because it needs special adjustment with a personal computer in such a case.

- OP block
- E²PROM (IC1003 on MAIN board)
- MONITOR
- E²PROM (IC7210 on MONITOR board)

When there is some trouble with the electric circuit, it is required to detect the part of the failure with specified test instruments first and then to proceed to adjustment, repair or replacement. Matters that require attention:

3.1.4 Setup

Note: For adjustment with a personal computer, basically use the JLIIP terminal of the set for connecting the personal computer.

1. For connecting personal computer directly to the set. (For checking the set status before disassembling.)

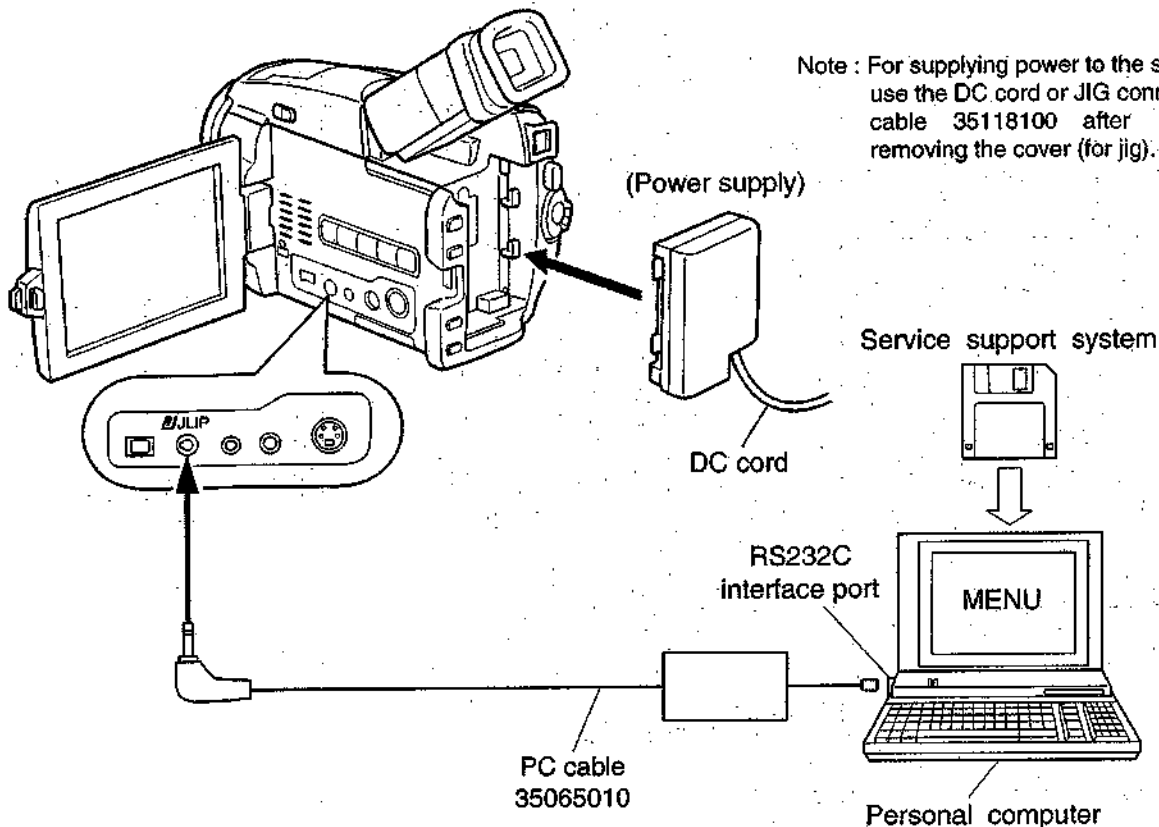
- (1) When checking at a chip test point, be sure to use an IC clip or the like not to apply it any stress. When replacing a chip part (IC in particular), completely remove solder from it and its periphery before replacement (to avoid exfoliation of the pattern).
- (2) Carefully connect/disconnect a connector because it is apt to get damaged.

3.1.2 Required test equipment

- (1) Personal computer (operated on Windows OS)
- (2) Color video monitor
- (3) Oscilloscope (dual-trace type, observable 100 MHz or higher frequency)
* It is recommended to use one observable 300 MHz or higher frequency.
- (4) Digital voltmeter
- (5) DC power supply
- (6) Frequency counter (with threshold level adjustment)

3.1.3 Jigs necessary for electrical adjustment

For jigs necessary for electrical adjustment, refer to pages 2 and 3 of the Section 1.



Note: For supplying power to the set, use the DC cord or JIG conn. cable 35118100 after removing the cover (for jig).

Fig. 3-1-1 Setup for electrical adjustment with personal computer (I)

2. Setup with patch cords and jig connector cables

NOTE:

Fig. 3-1-2 shows an example of expansion setup that facilitates inspection of major boards because main components are connected by means of patch cords and jig cables. For proceeding to electrical adjustment in such the setup, disassemble the set at a certain level required for the current adjustment objectives referring to the section 1 "DISASSEMBLY" and properly set up the expanded set and test instruments.

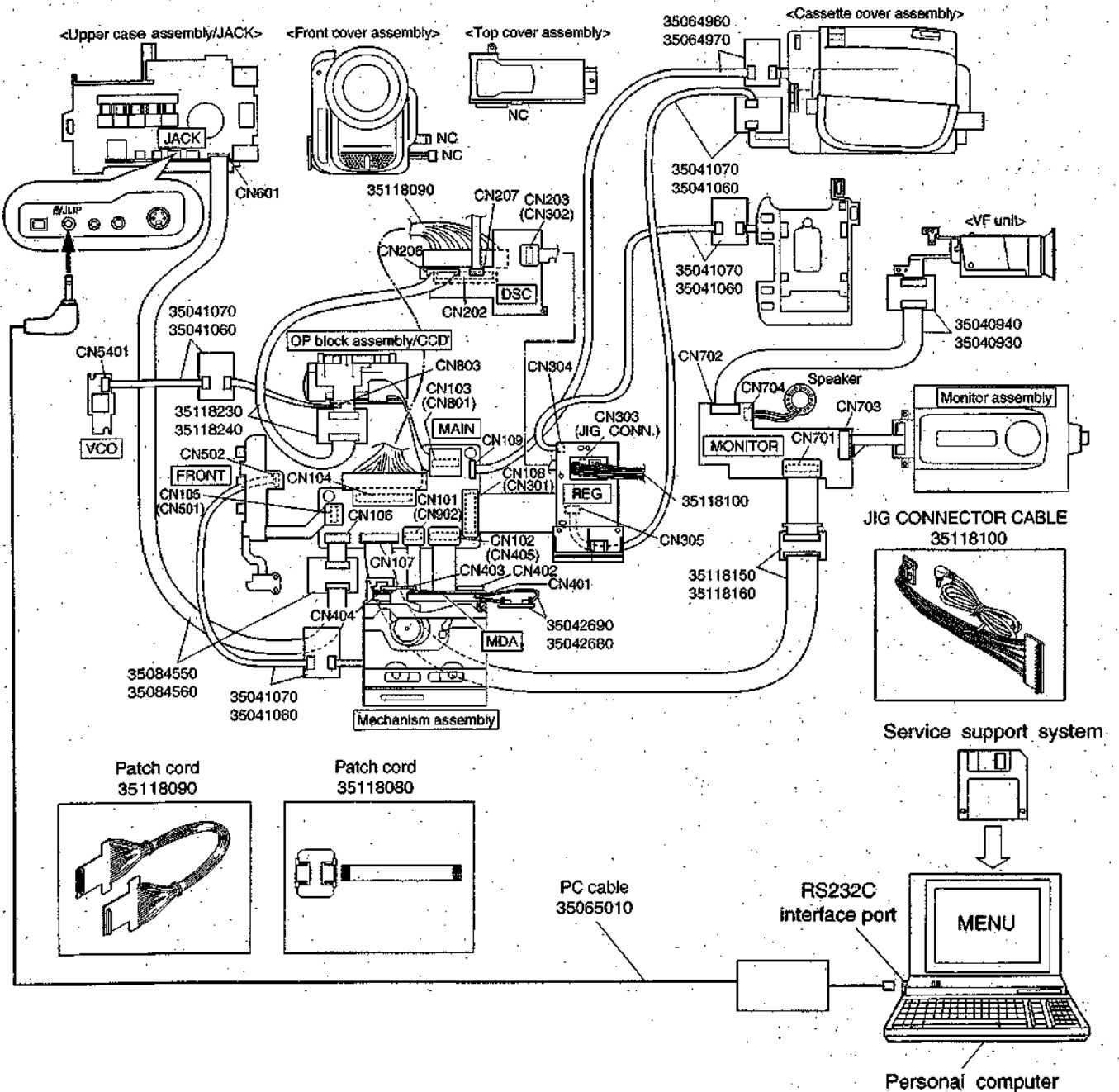


Fig. 3-1-2 Setup for electrical adjustment with personal computer (II)

3.2 MONITOR ADJUSTMENT

Note: Unless otherwise specified, all measurement points and adjustment parts are located on MONITOR board.

3.2.1 PLL (MONI)

Subject	<ul style="list-style-type: none"> • Camera picture • Gray scale
Mode	• EE
Equipment	• Oscilloscope
Measurement point	• IC7300 pin 24 (RPD)
Adjustment part	• R7338 (PLL MONI)
Specification	• A = B

- 1) Observe waveform at pin 24 of the IC7300.
- 2) For the waveform shown in the waveform chart (Fig. 3-2-2), equalize the width of A and B with each other by adjusting R7338.

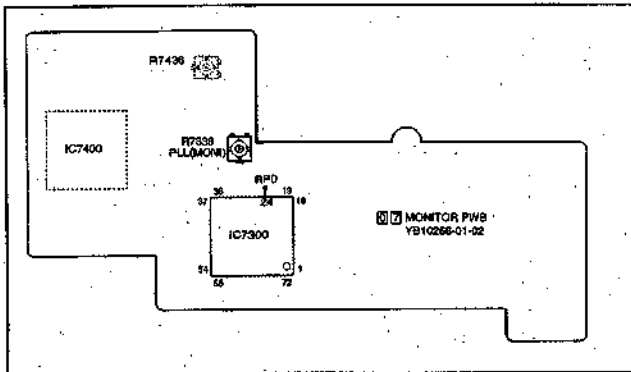


Fig. 3-2-1 MONITOR board (FOIL SIDE)

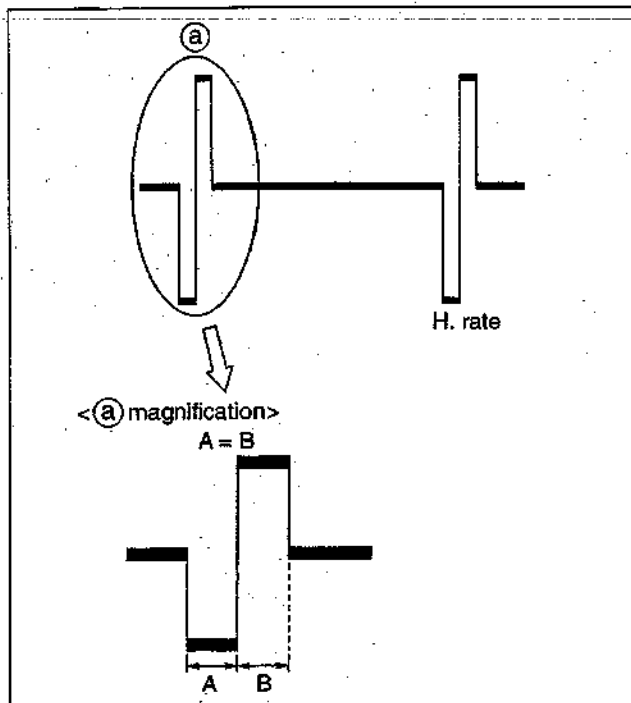


Fig. 3-2-2 PLL (MONI)

3.3 ELECTRONIC VIEWFINDER (E. VF) ADJUSTMENT

Note: Unless otherwise specified, all measurement points and adjustment parts are located on MONITOR board.

3.3.1 PLL (VF)

Subject	<ul style="list-style-type: none"> • Camera picture • Gray scale
Mode	• EE
Equipment	• Oscilloscope
Measurement point	• IC7400 pin 24 (RPD)
Adjustment part	• R7436 (PLL VF)
Specification	• A = B

- 1) Observe waveform at pin 24 of the IC7400.
- 2) For the waveform shown in the waveform chart (Fig. 3-3-2), equalize the width of A and B with each other by adjusting R7436.

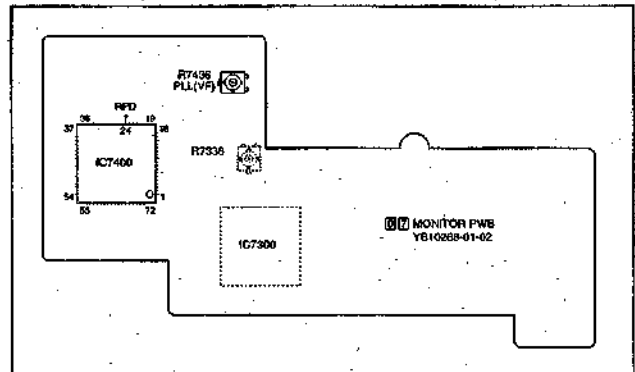


Fig. 3-3-1 MONITOR board (FOIL SIDE)

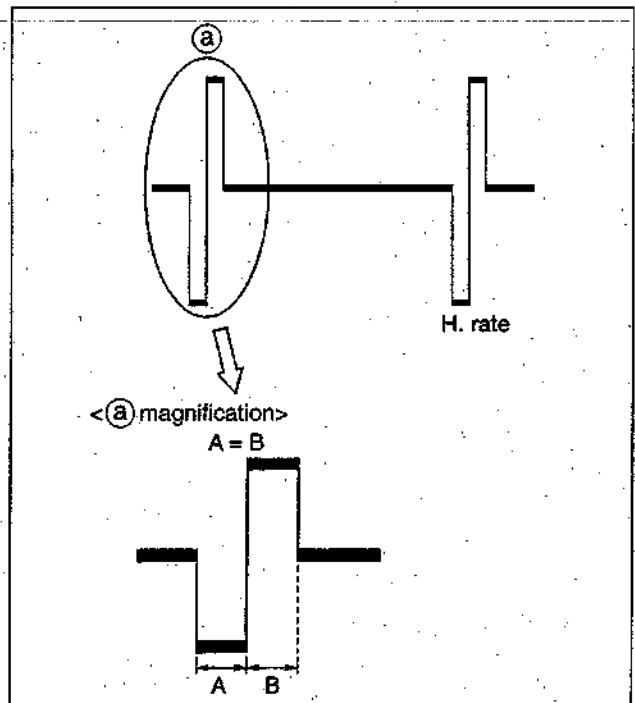


Fig. 3-3-2 PLL (VF)

3.4 MPL ADJUSTMENT

- Notes:**
- This adjustment minimizes vertical line noise that appears at a low illuminance.
 - Unless otherwise specified, all measurement points and adjustment parts are located on MPL board.
 - Set the switches as shown below unless otherwise specified on the relevant adjustment chart. The switches that are not listed below can be set as desired.

GAIN UP	AGC (ON)
SHUTTER SPED	1/50

3.4.1 MPL

Subject	• Camera picture
Mode	• EE
Equipment	• -
Measurement point	• TV monitor
Adjustment part	• R5407 (MPL)
Specification	• Minimum level

- 1) While looking through the TV monitor, adjust the R5407 so that the vertical line noise is minimized.

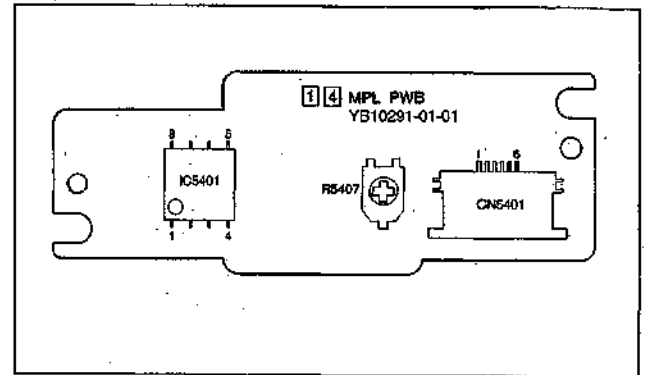


Fig. 3-4-1 MPL board (COMPONENT SIDE)

3.5 FUSE LOCATION

3.5.1 REG PWB (FOIL SIDE)

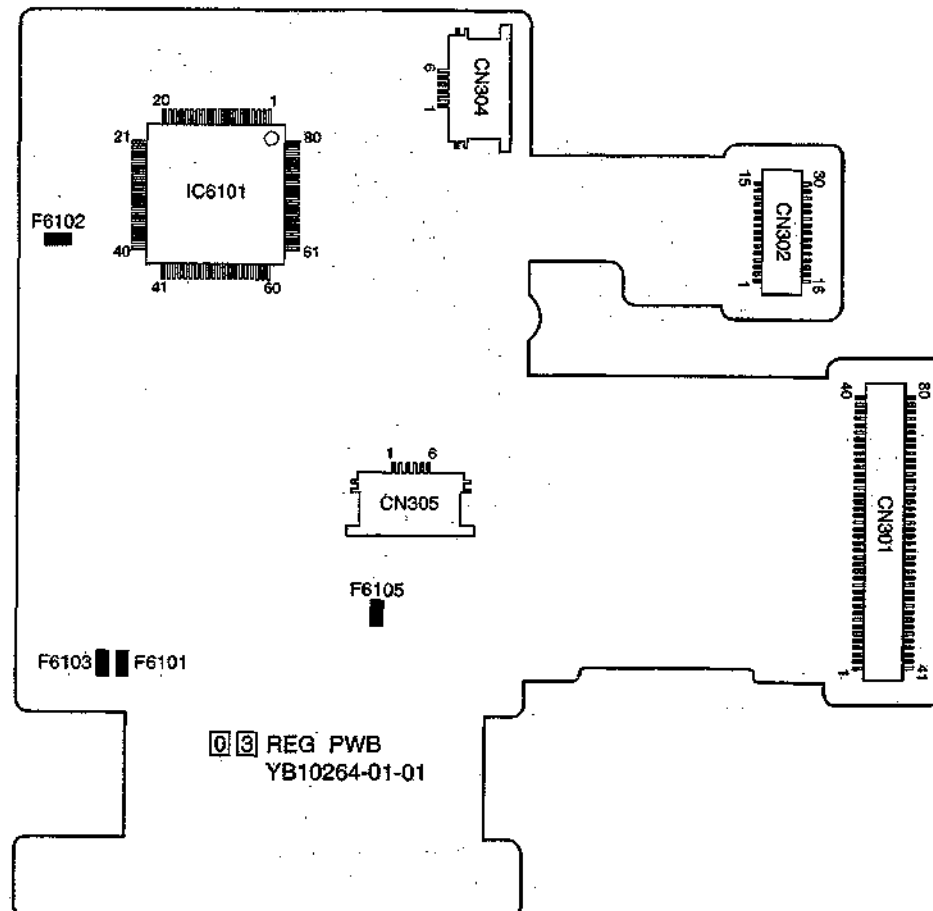


Fig. 3-5-1 Fuse location for REG board assembly

3.5.2 MONITOR PWB (FOIL SIDE)

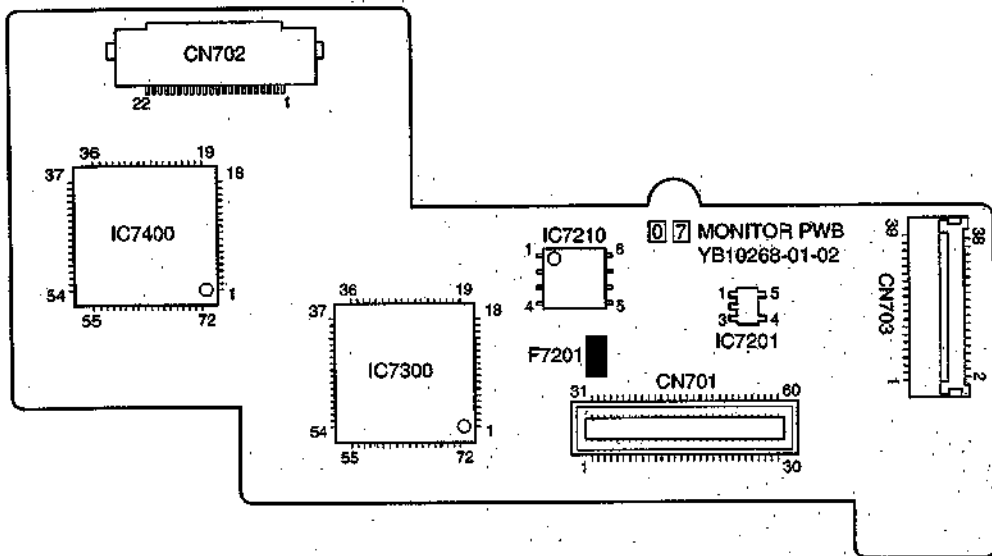


Fig. 3-5-2 Fuse location for MONITOR board assembly

3.5.3 MONITOR PWB (COMPONENT SIDE)

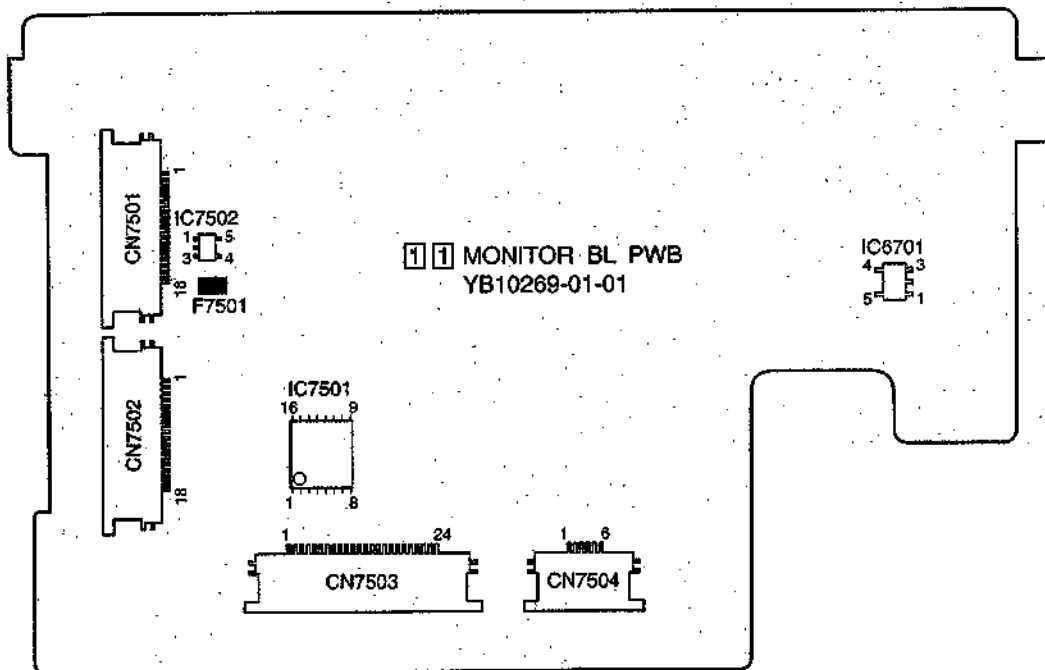


Fig. 3-5-3 Fuse location MONITOR BL board assembly

SECTION 4 CHARTS AND DIAGRAMS

NOTES OF SCHEMATIC DIAGRAM

Safety precautions

The Components identified by the symbol are critical for safety. For continued safety, replace safety critical components only with manufacturer's recommended parts.

1. Units of components on the schematic diagram

Unless otherwise specified.

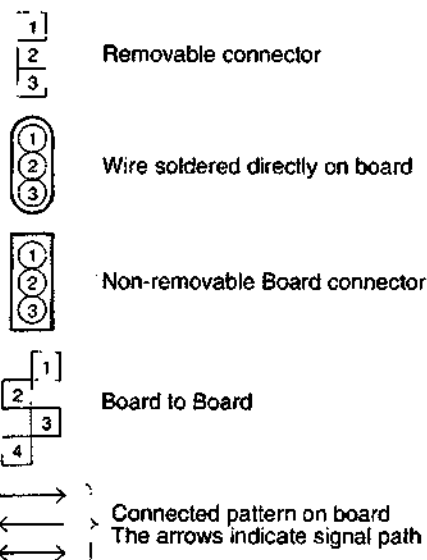
- 1) All resistance values are in ohm, 1/6 W, 1/8 W (refer to parts list).
Chip resistors are 1/16 W.
K: K Ω (1000 Ω), M: M Ω (1000K Ω)
- 2) All capacitance values are in μ F, (P: PF).
- 3) All inductance values are in μ H, (m: mH).
- 4) All diodes are 1SS133, MA165 or 1N4148M (refer to parts list).

2. Indications of control voltage

AUX : Active at high

AUX or AUX(L) : Active at low

3. Interpreting Connector indications

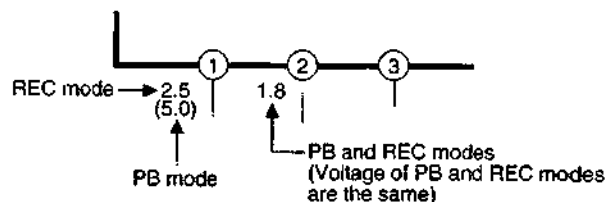


4. Voltage measurement

- 1) Video circuits
REC : Colour bar signal in SP mode, normal VHS mode
PB : Alignment tape, colour bar SP mode, normal VHS mode
— : Unmeasurable or unnecessary to measure
- 2) Audio circuits
REC : 1KHz, -8 dBs sine wave signal in SP mode, Normal VHS mode
PB : REC then playback it
- 3) Movie Camera circuits
Measured using a correctly illuminated gray scale or colour bar test charts in the E-E mode

4) Indication on schematic diagram

Voltage Indications for REC and PB mode on the schematic diagram are as shown below.



Note: If the voltages are not indicated on the schematic diagram, refer to the voltage charts.

5. Waveform measurement

1) Video circuits

REC : Colour bar signal in SP mode, normal VHS mode

PB : Alignment tape, colour bar SP mode, normal VHS mode

2) Audio circuits

REC : 1KHz, -8 dBs sine wave signal in SP mode, normal VHS mode

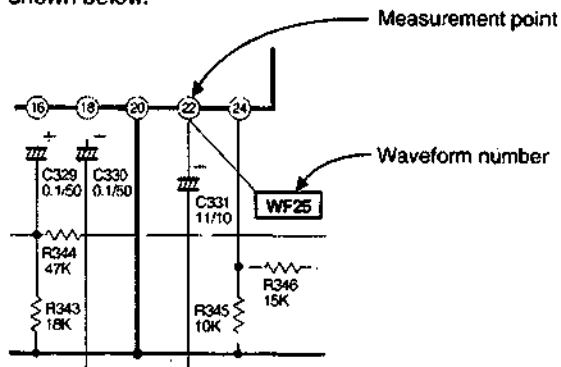
PB : REC then playback it

3) Movie Camera circuits

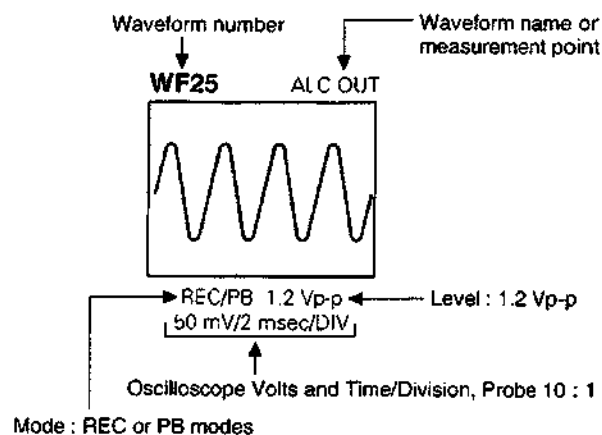
Measured using a correctly illuminated gray scale or colour bar test charts in the E-E mode

4) Indication on schematic diagram

Waveform indications on the schematic diagram are as shown below.








5) Waveform indications



6. Signal path Symbols

The arrows indicate the signal path as follows.

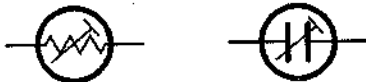
-  Playback signal path
-  Playback and recording signal path
-  Recording signal path (including E-E signal path)
-  Capstan servo path
-  Drum servo path

(Example)

-  R-Y Playback R-Y signal path
-  Y Recording Y signal path

7. Indication of the parts for adjustments

The parts for the adjustments are surrounded with the circle as shown below.



8. Indication of the parts not mounted on the circuit board

"OPEN" is indicated by the parts not mounted on the circuit board.



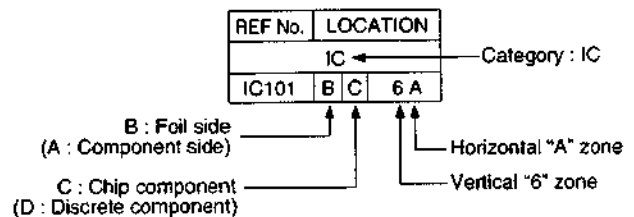
CIRCUIT BOARD NOTES

1. Foil and Component sides

- 1) Foil side (B side) :
Parts on the foil side seen from foil face (pattern face) are indicated.
- 2) Component side (A side) :
Parts on the component side seen from component face (parts face) indicated.

2. Parts location guides

Parts location are indicated by guide scale on the circuit board.

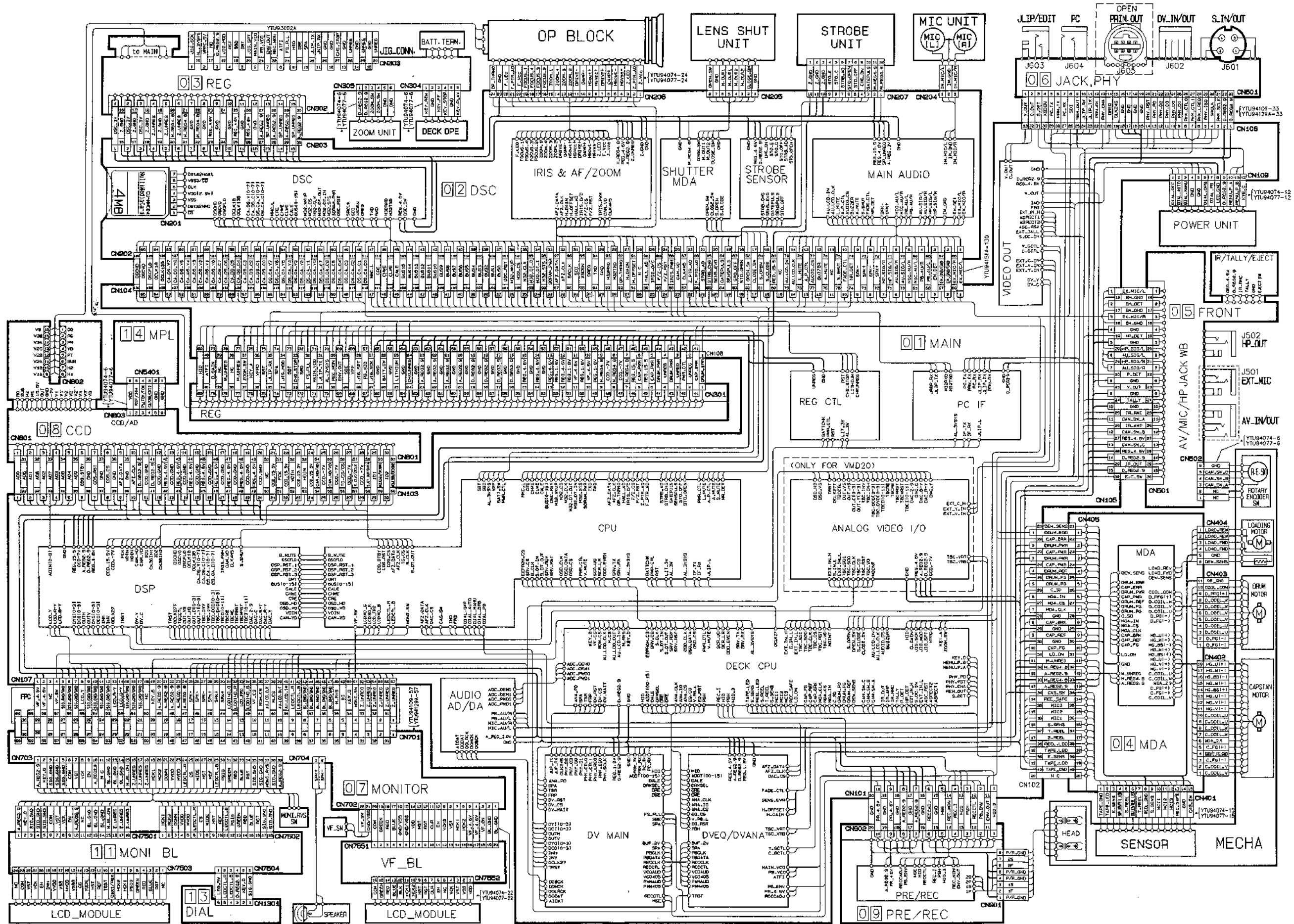


Note:

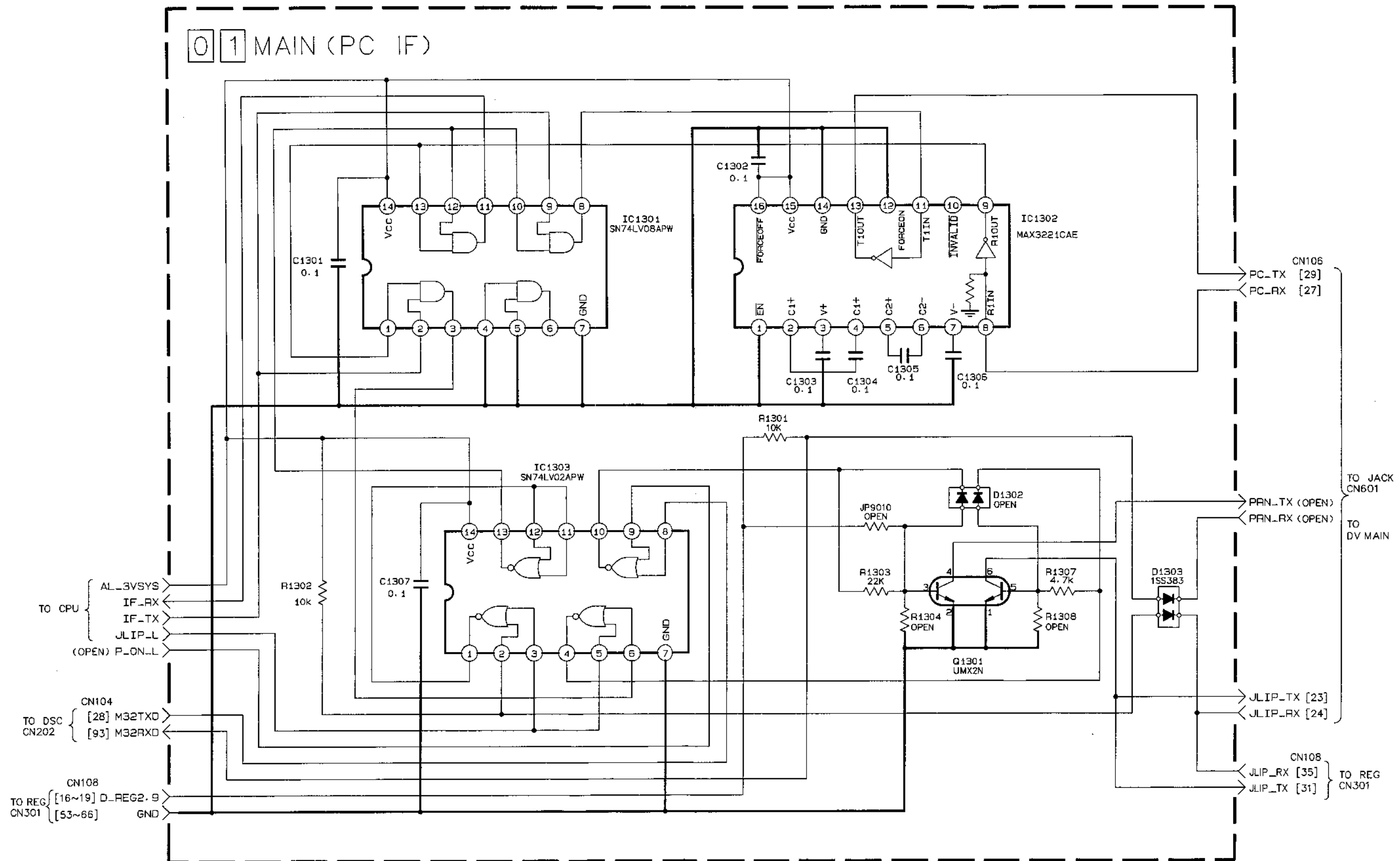
For general information in service manual, please refer to the Service Manual of GENERAL INFORMATION Edition 4 No. 82054D (January 1994).

4.1 BOARD INTERCONNECTIONS

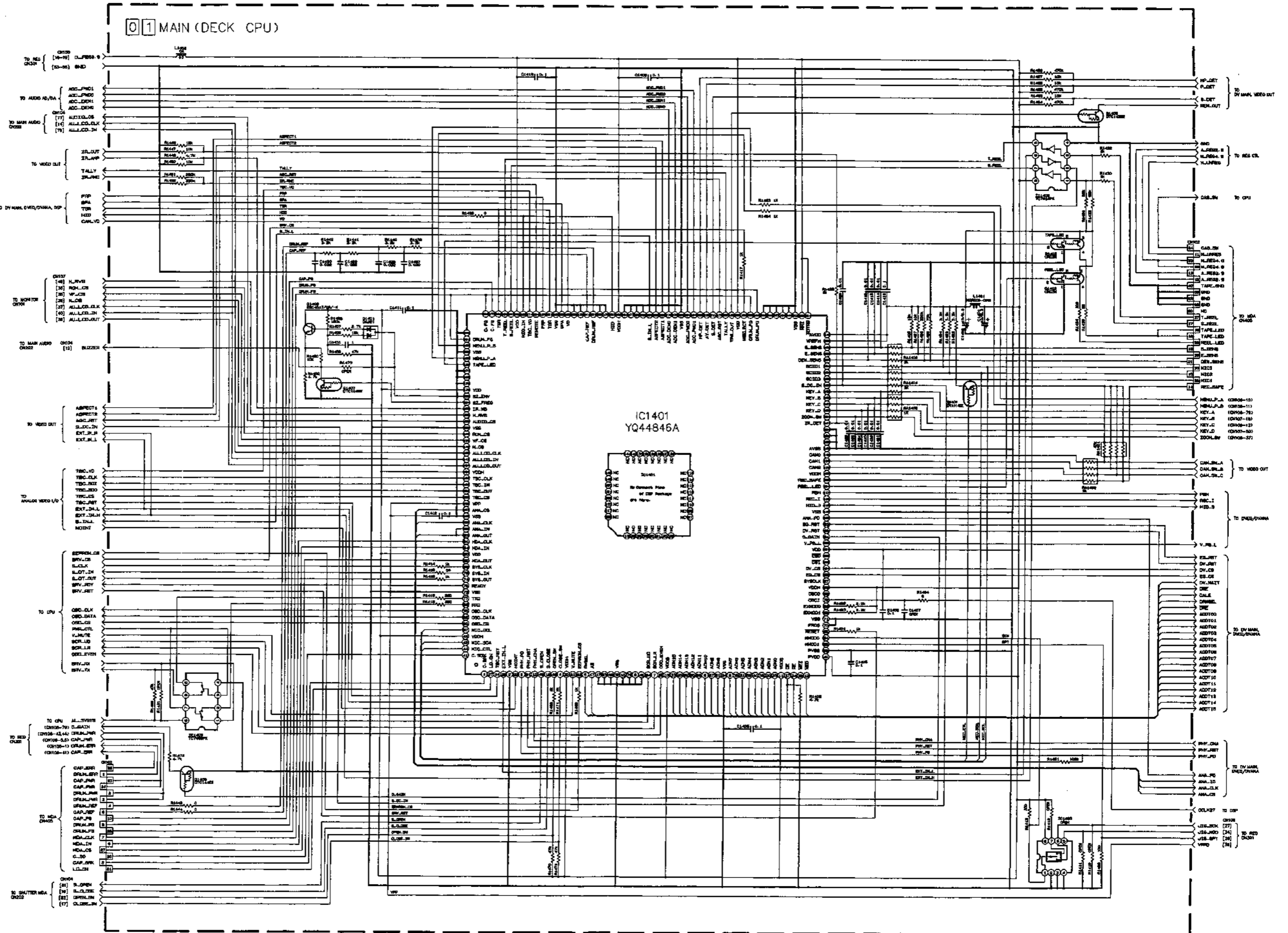
NOTE) *: The number of patch cords are indicated by interconnects.



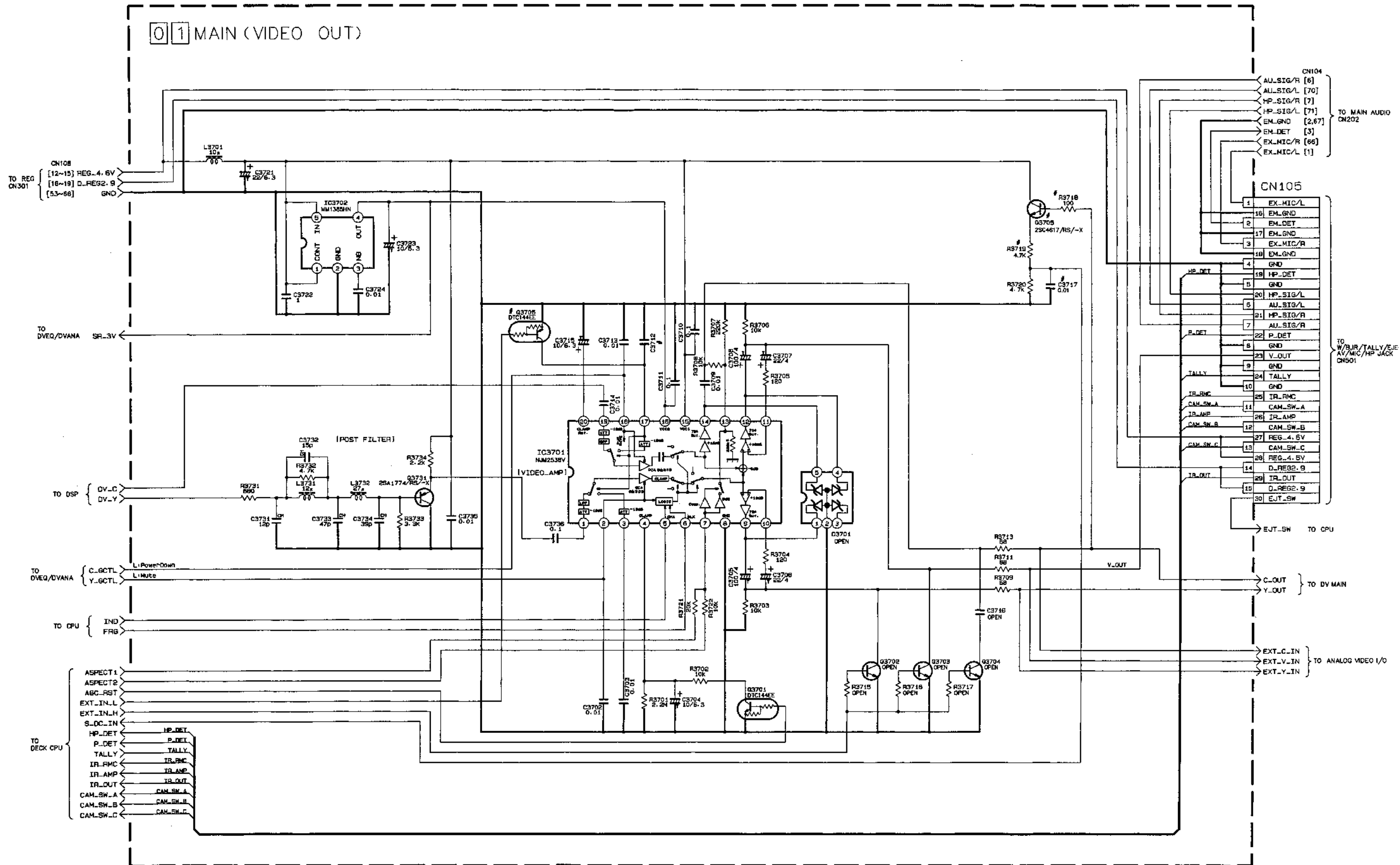
4.3 PC IF SCHEMATIC DIAGRAM



4.4 DECK CPU SCHEMATIC DIAGRAM



4.7 VIDEO OUT SCHEMATIC DIAGRAM



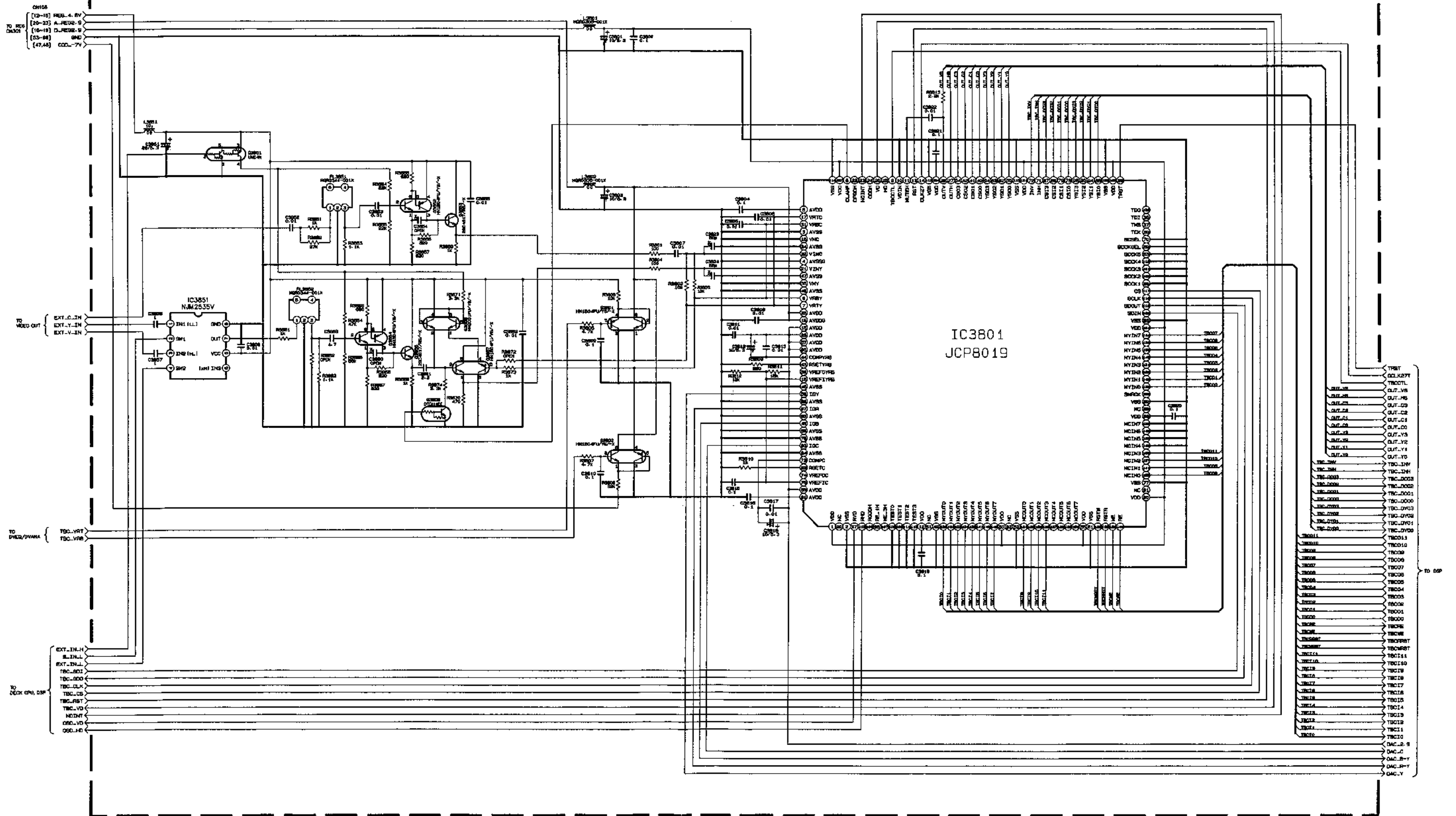
NOTE : COMPARISON CHART OF MODELS & MARKS (#)

REF No.	Q3705	R3718	C3712	C3717
MODELS	Q3706	R3719		
VMD10	OPEN	OPEN	0G	OPEN
VMD20	USED	USED	0.01	USED

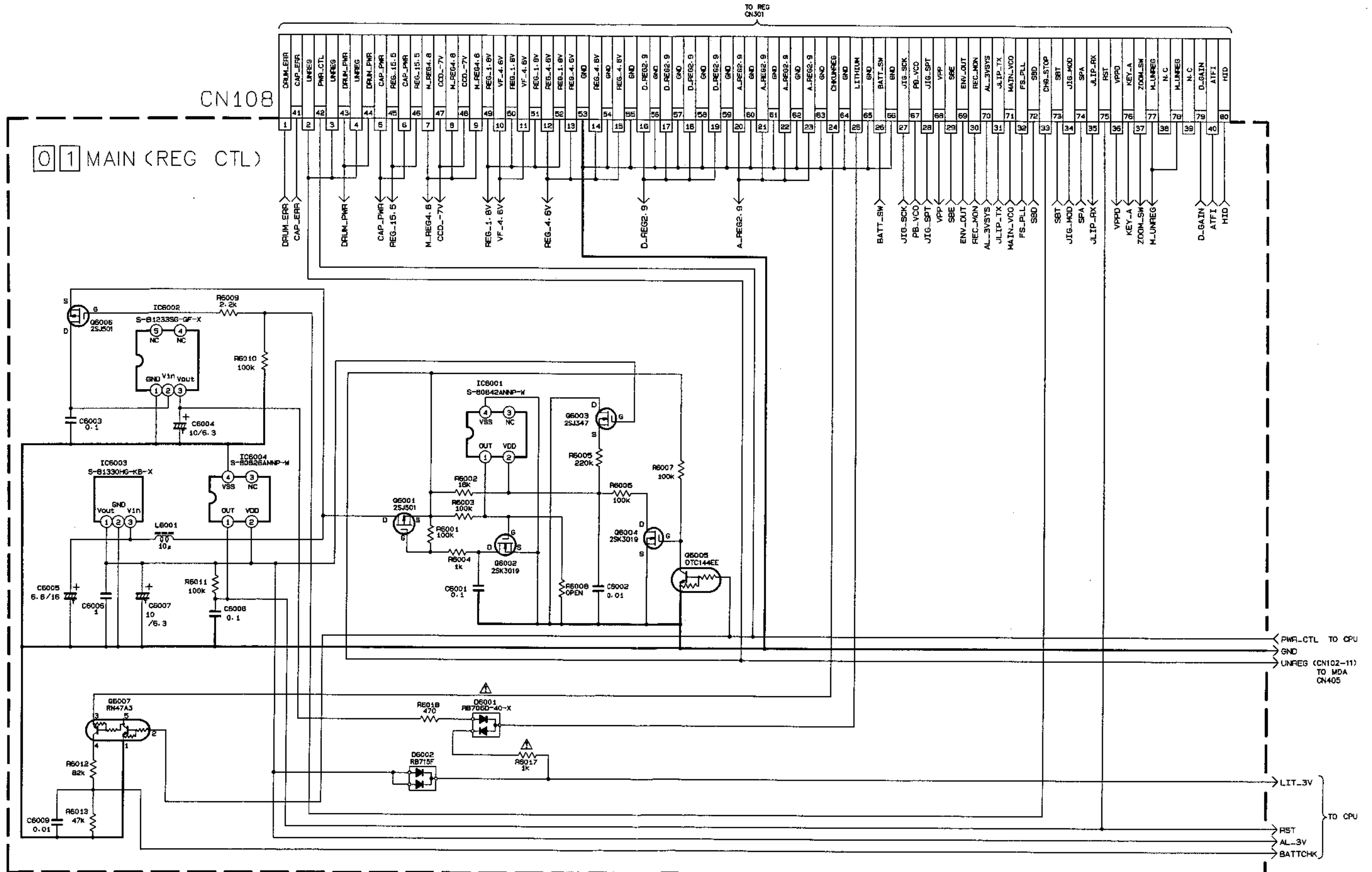
4.8 ANALOG VIDEO I/O SCHEMATIC DIAGRAM

(For VMD20)

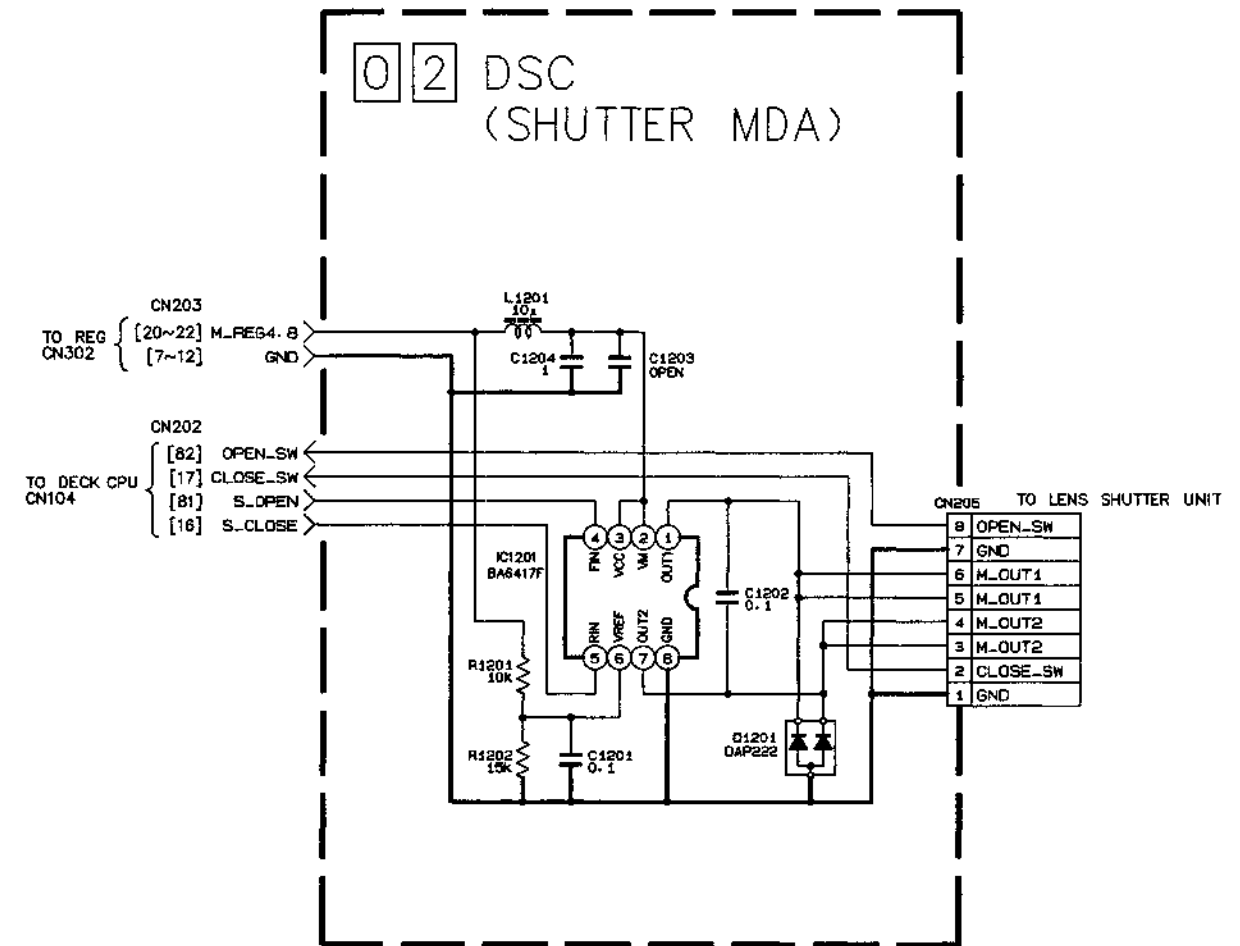
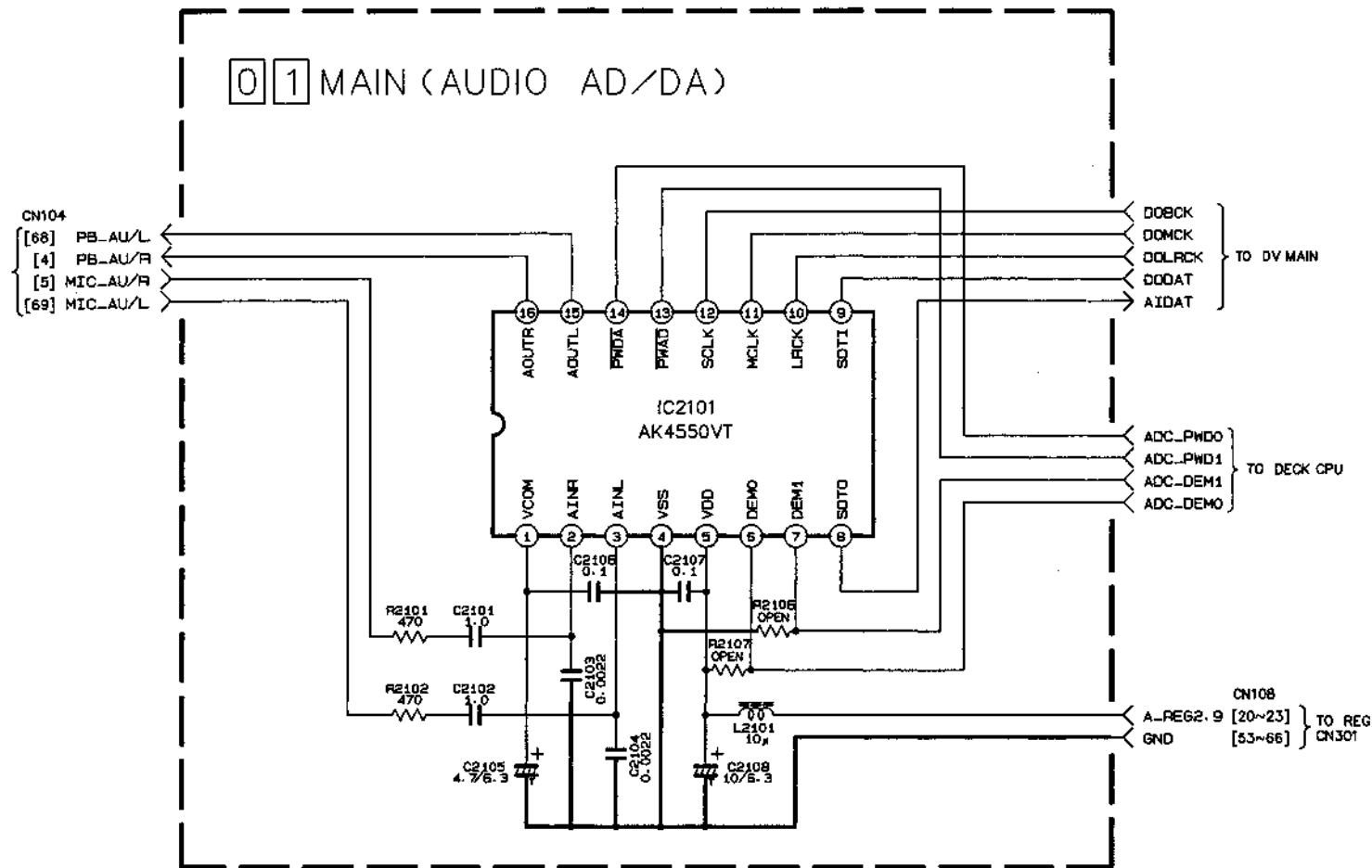
01 MAIN (ANALOG VIDEO I/O)



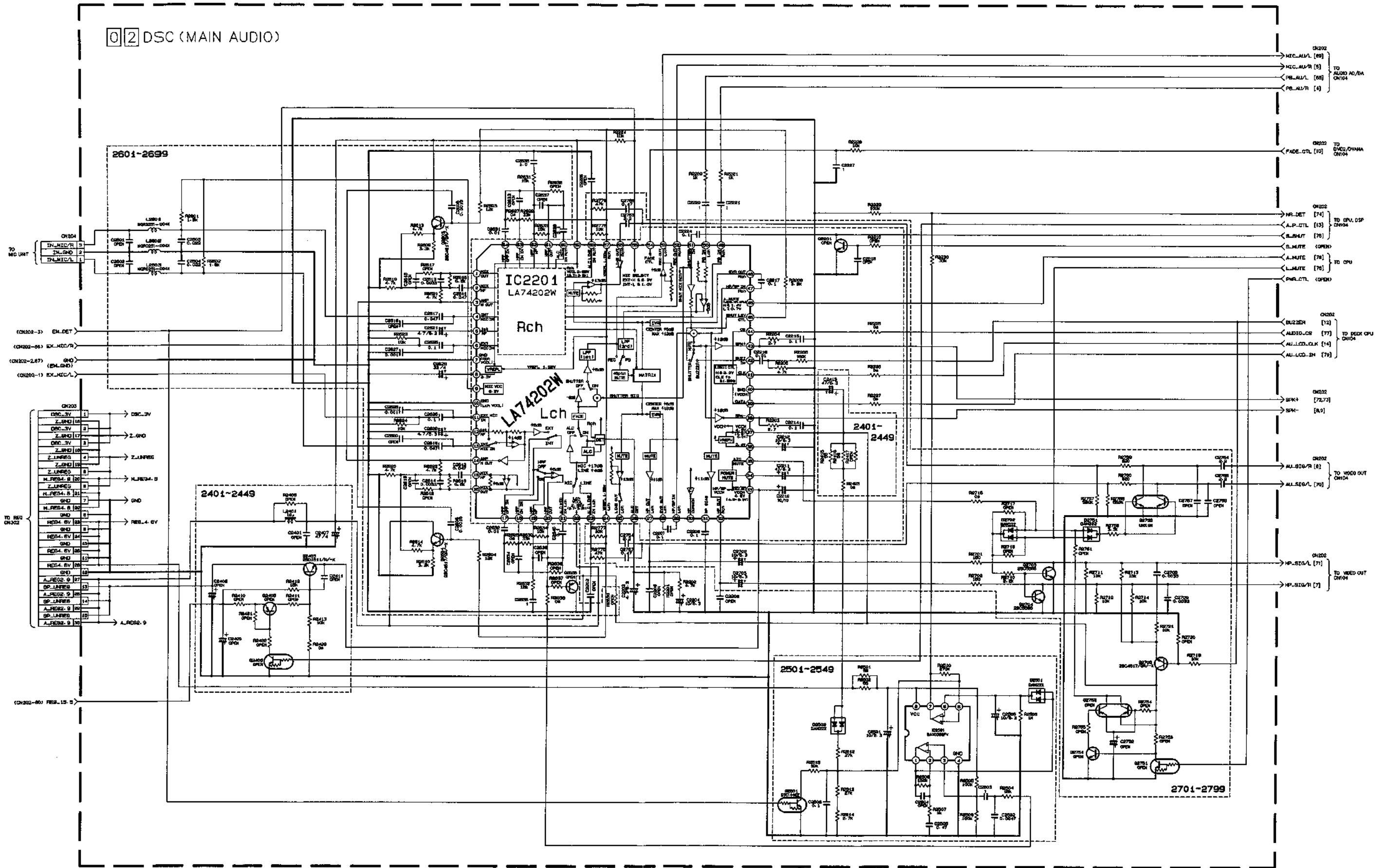
4.10 REG CTL SCHEMATIC DIAGRAM



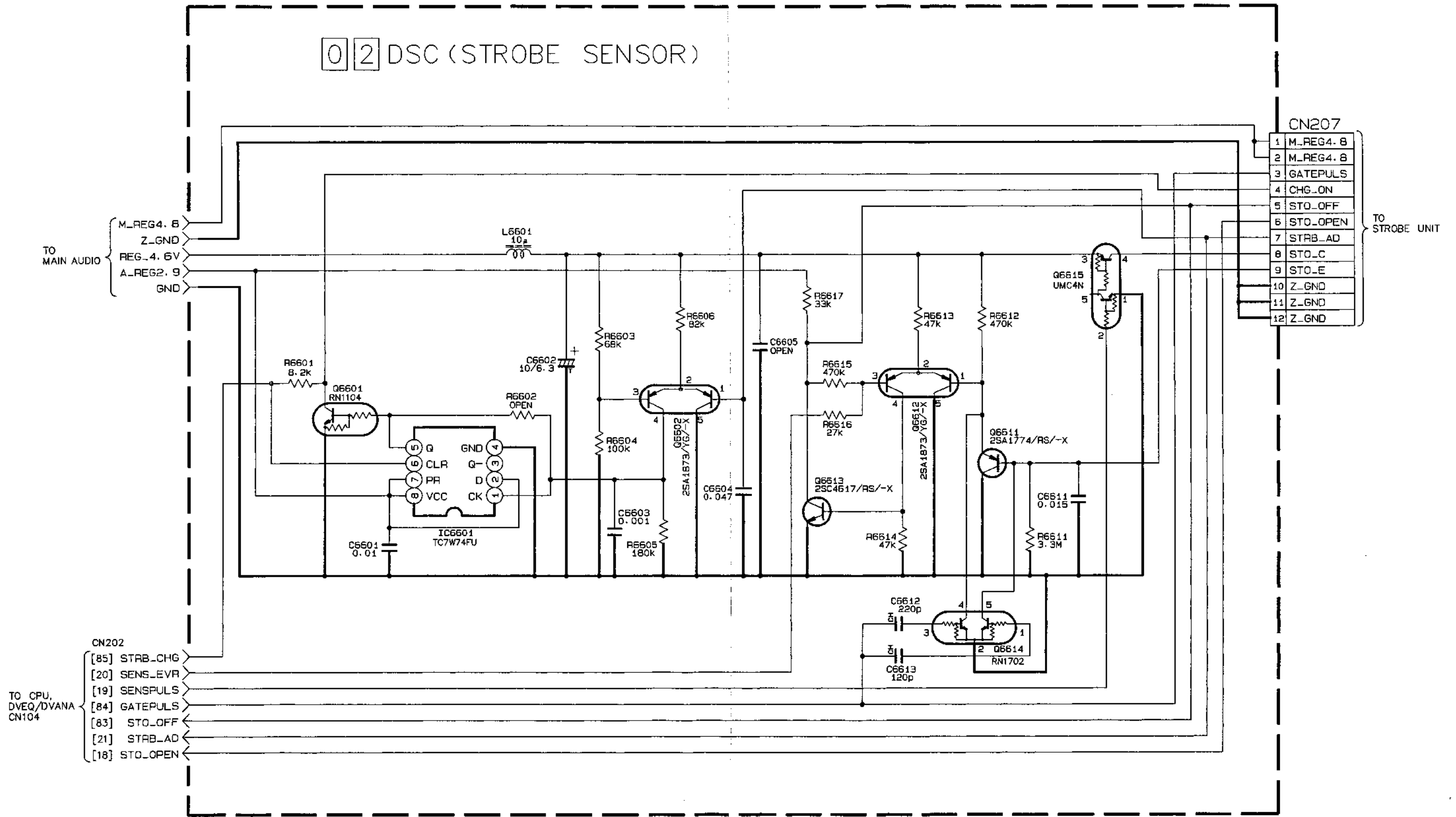
4.11 AUDIO AD/DA AND SHUTTER MDA SCHEMATIC DIAGRAM



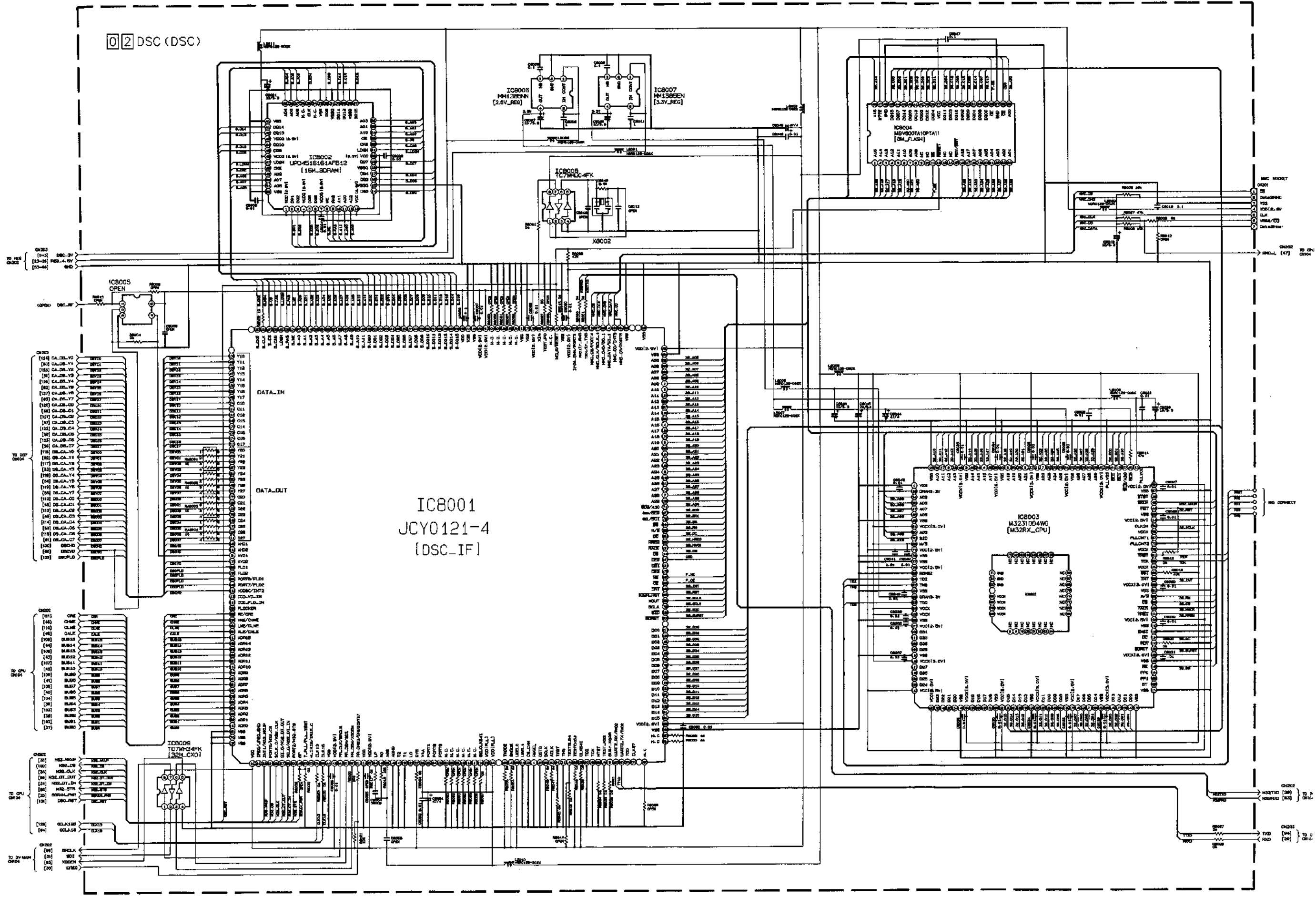
4.12 MAIN AUDIO SCHEMATIC DIAGRAM



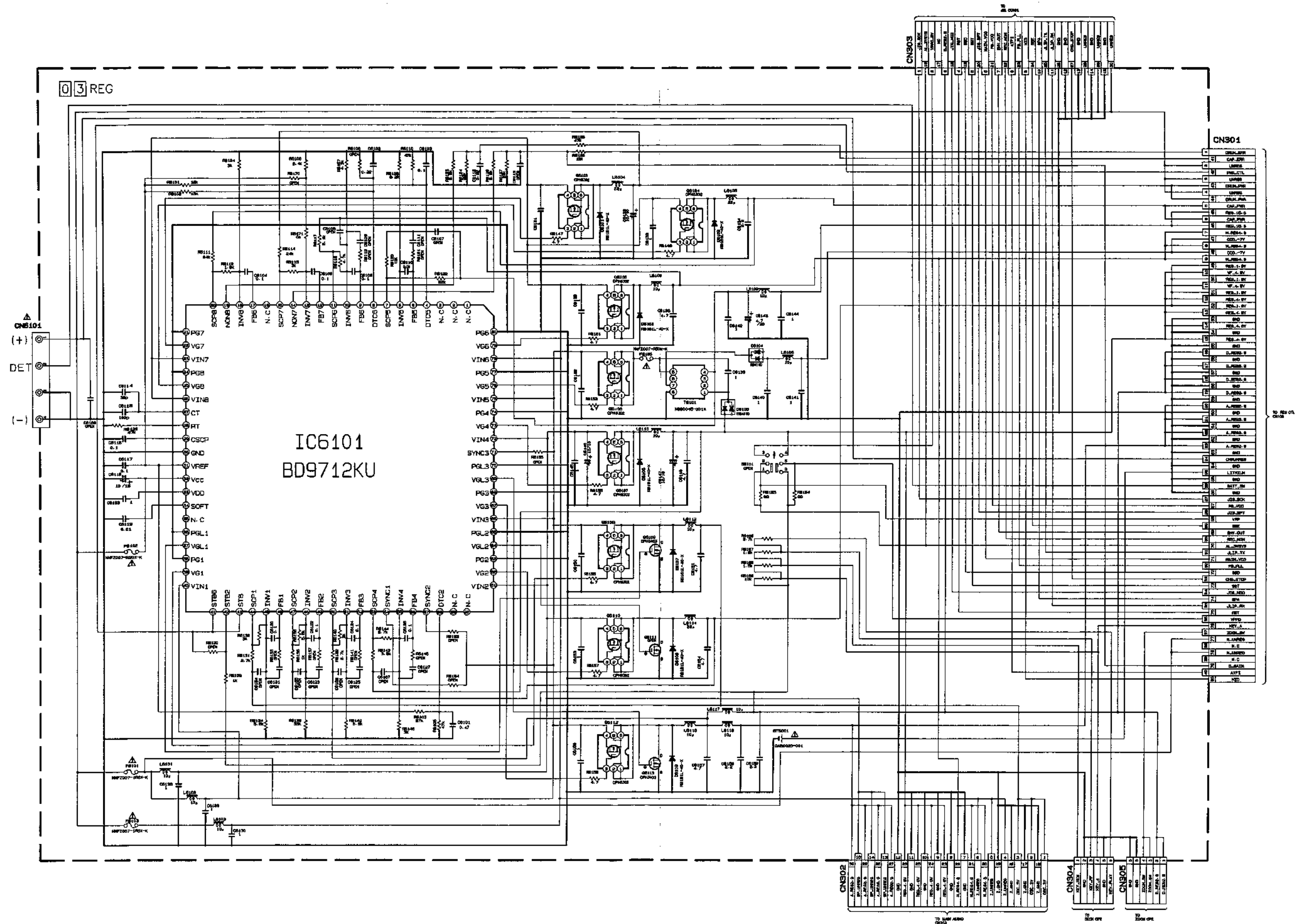
4.14 STROBE SENSOR SCHEMATIC DIAGRAM



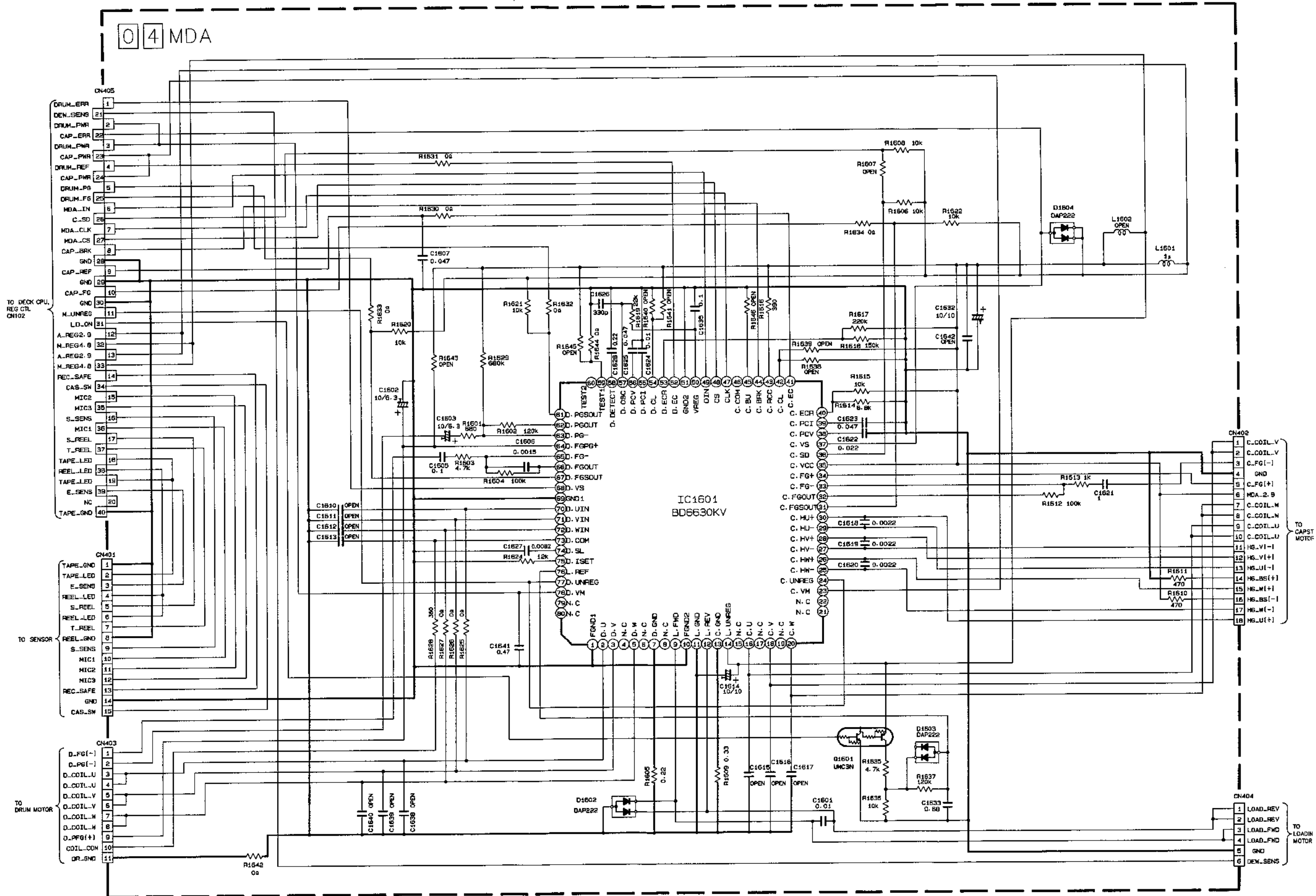
4.15 DSC SCHEMATIC DIAGRAM



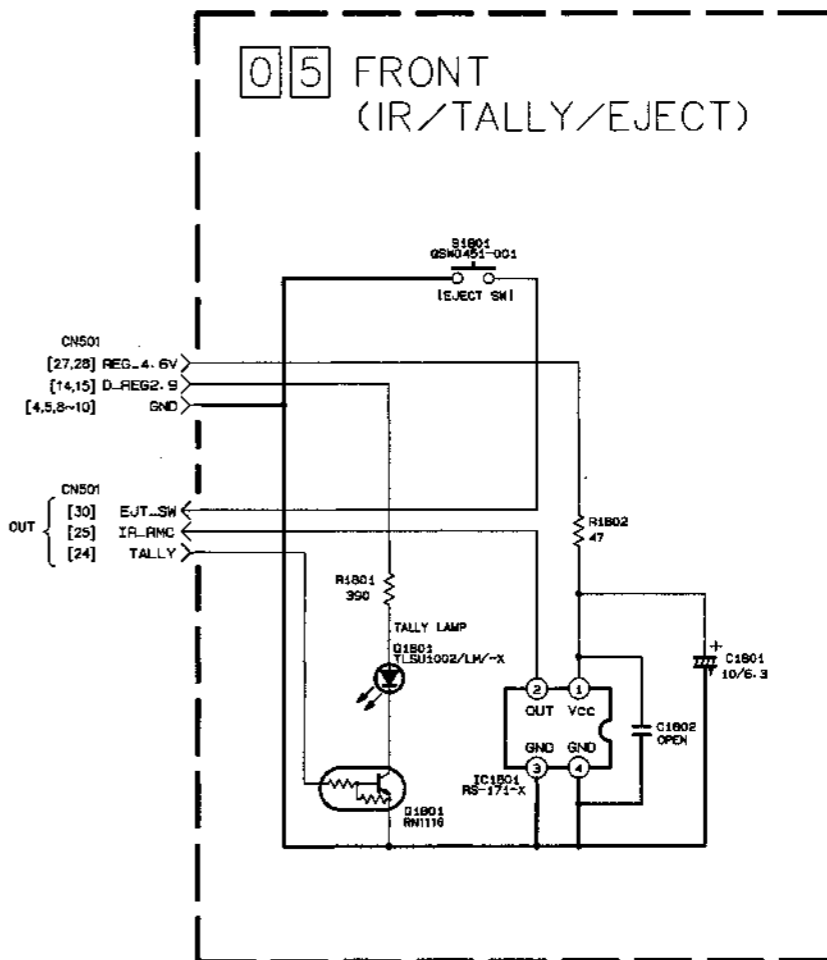
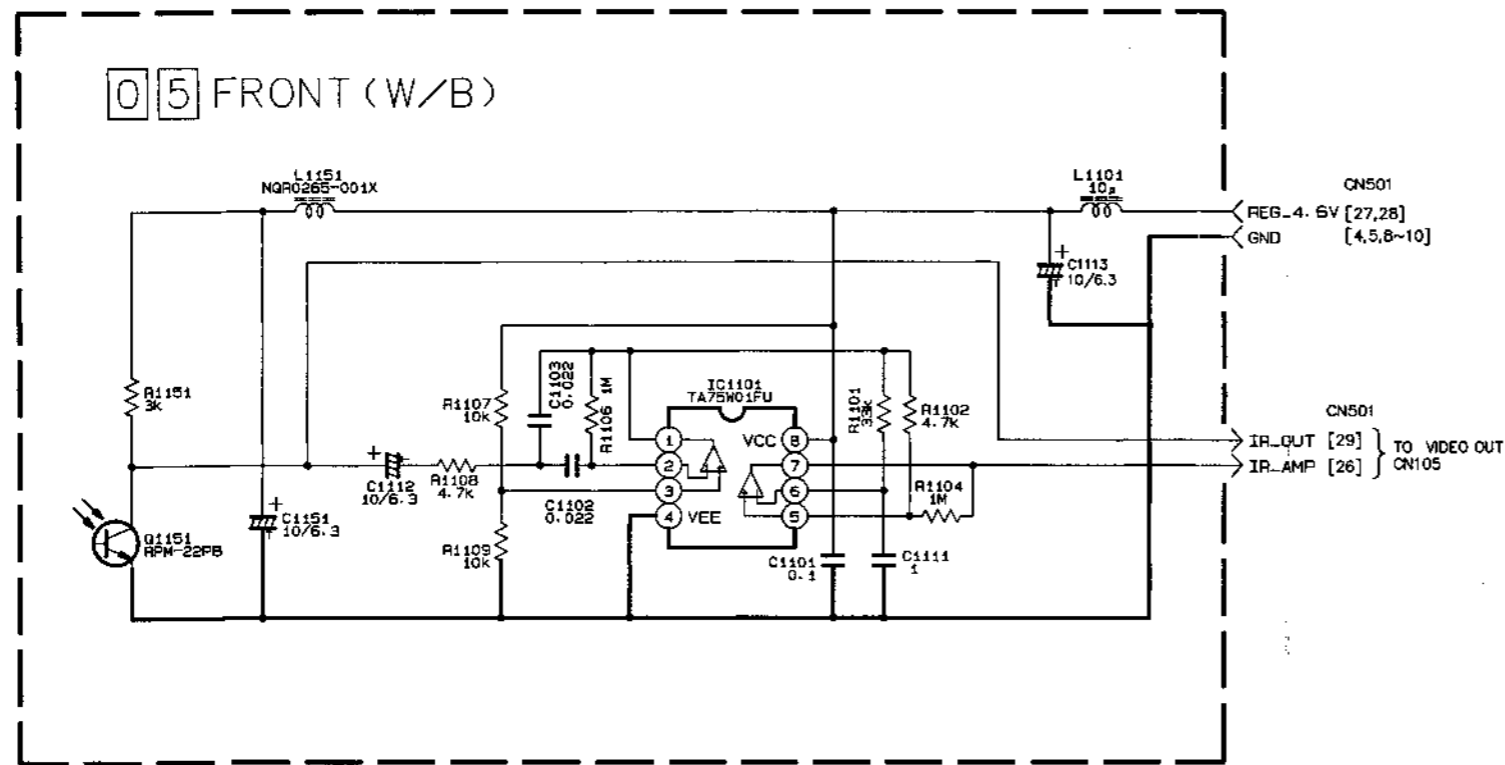
4.16 REGULATOR SCHEMATIC DIAGRAM



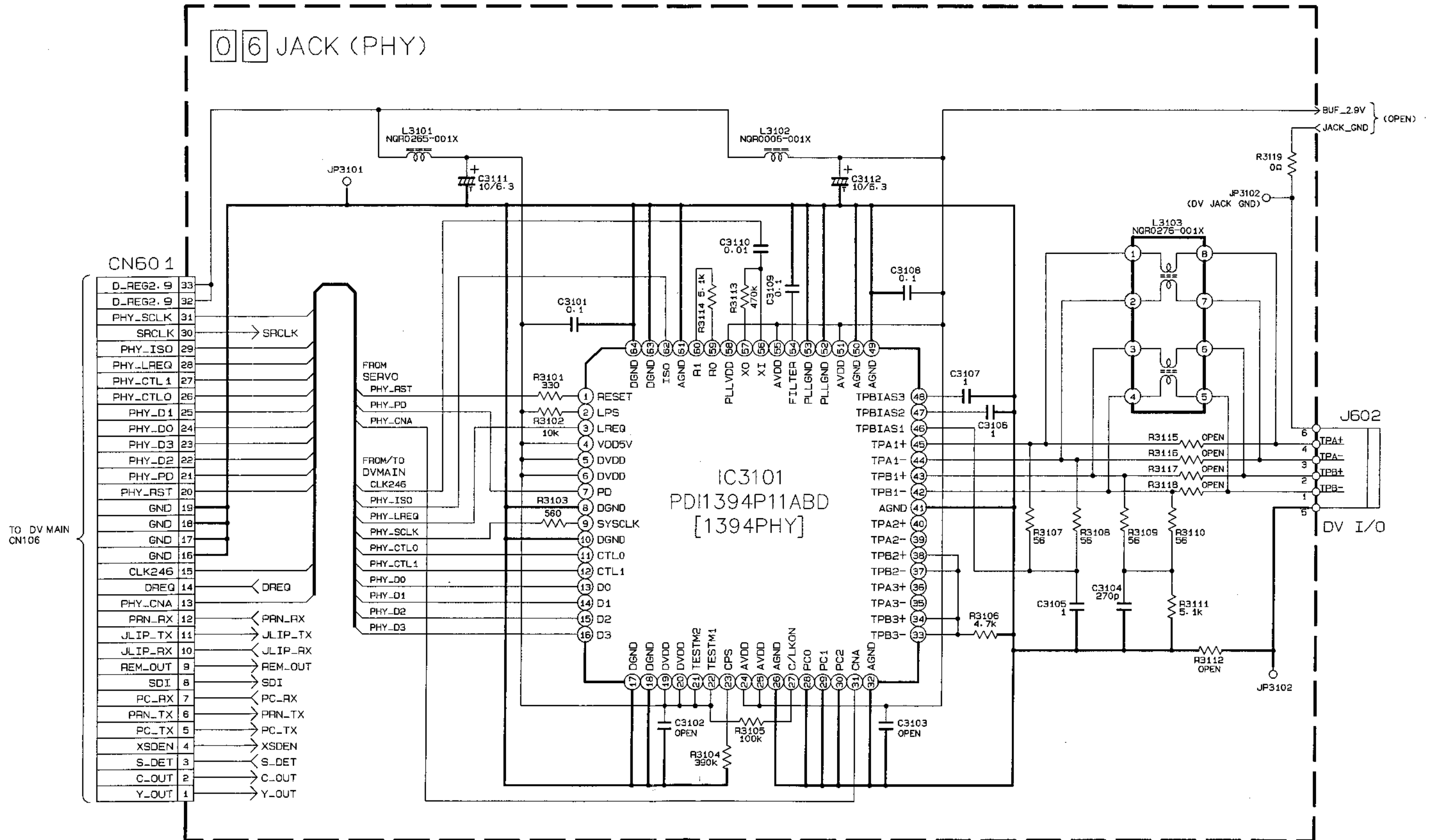
4.17 MDA SCHEMATIC DIAGRAM



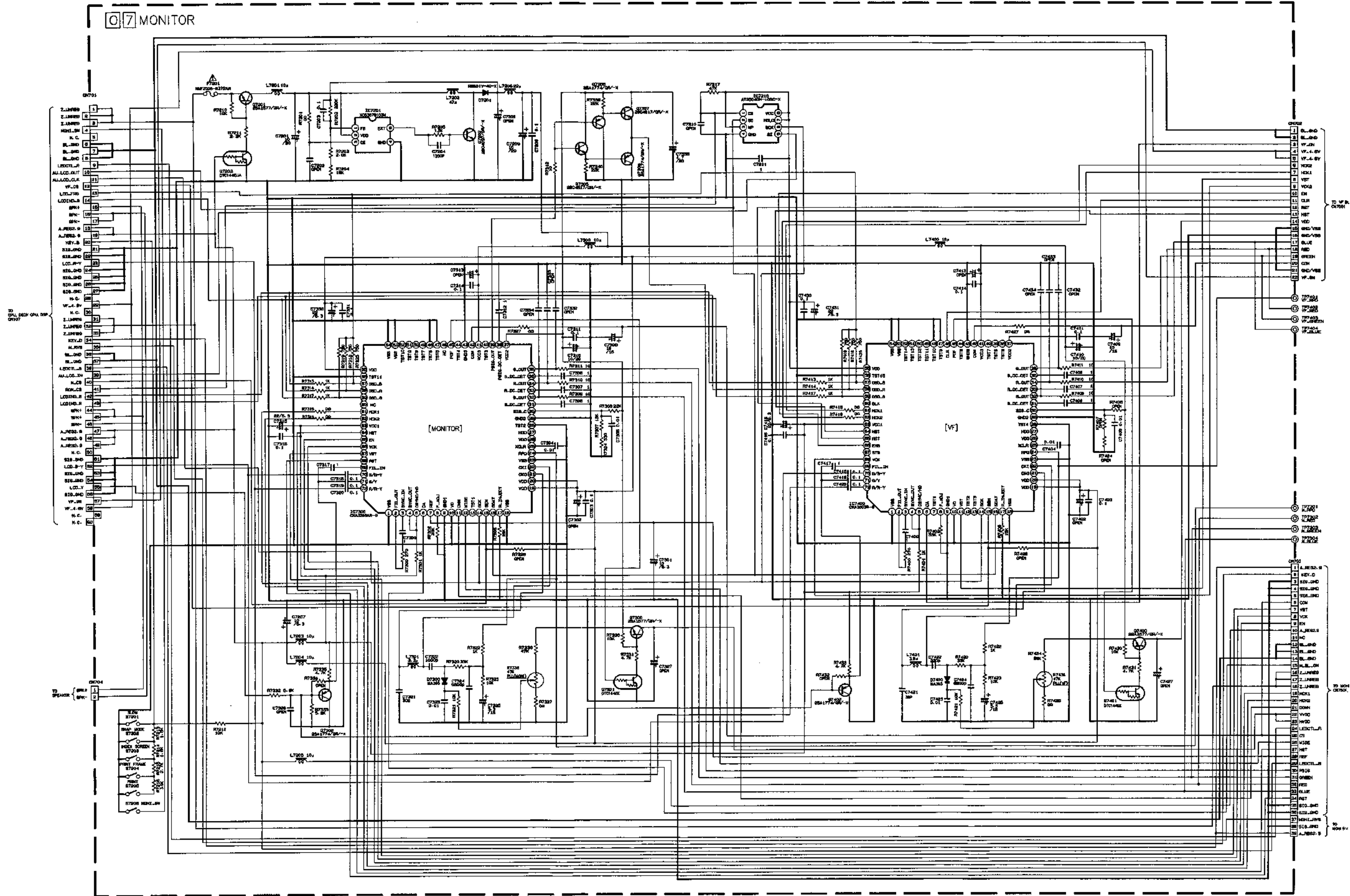
4.18 W/B AND IR/TALLY/EJECT SCHEMATIC DIAGRAMS



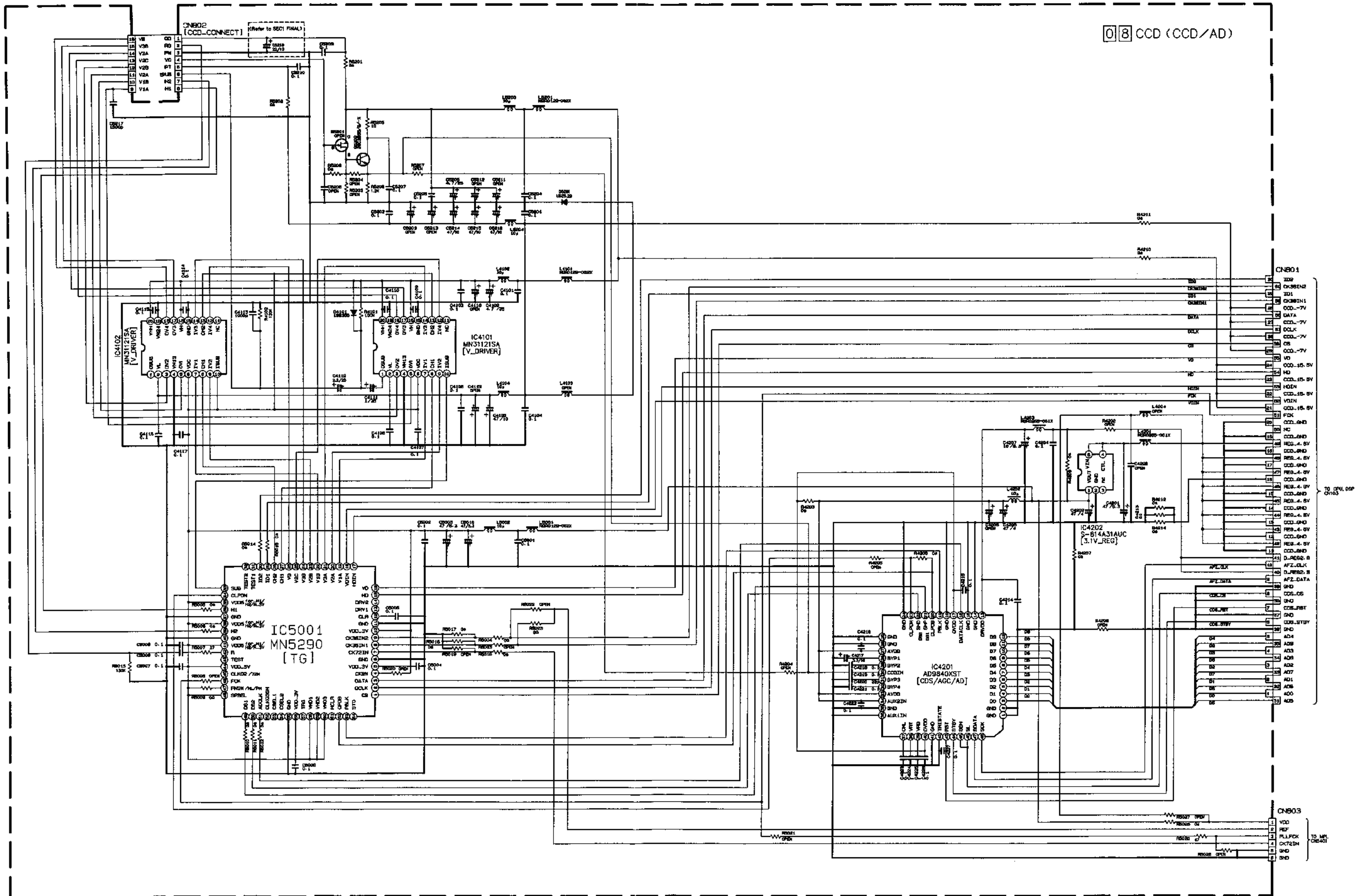
4.20 PHY SCHEMATIC DIAGRAM



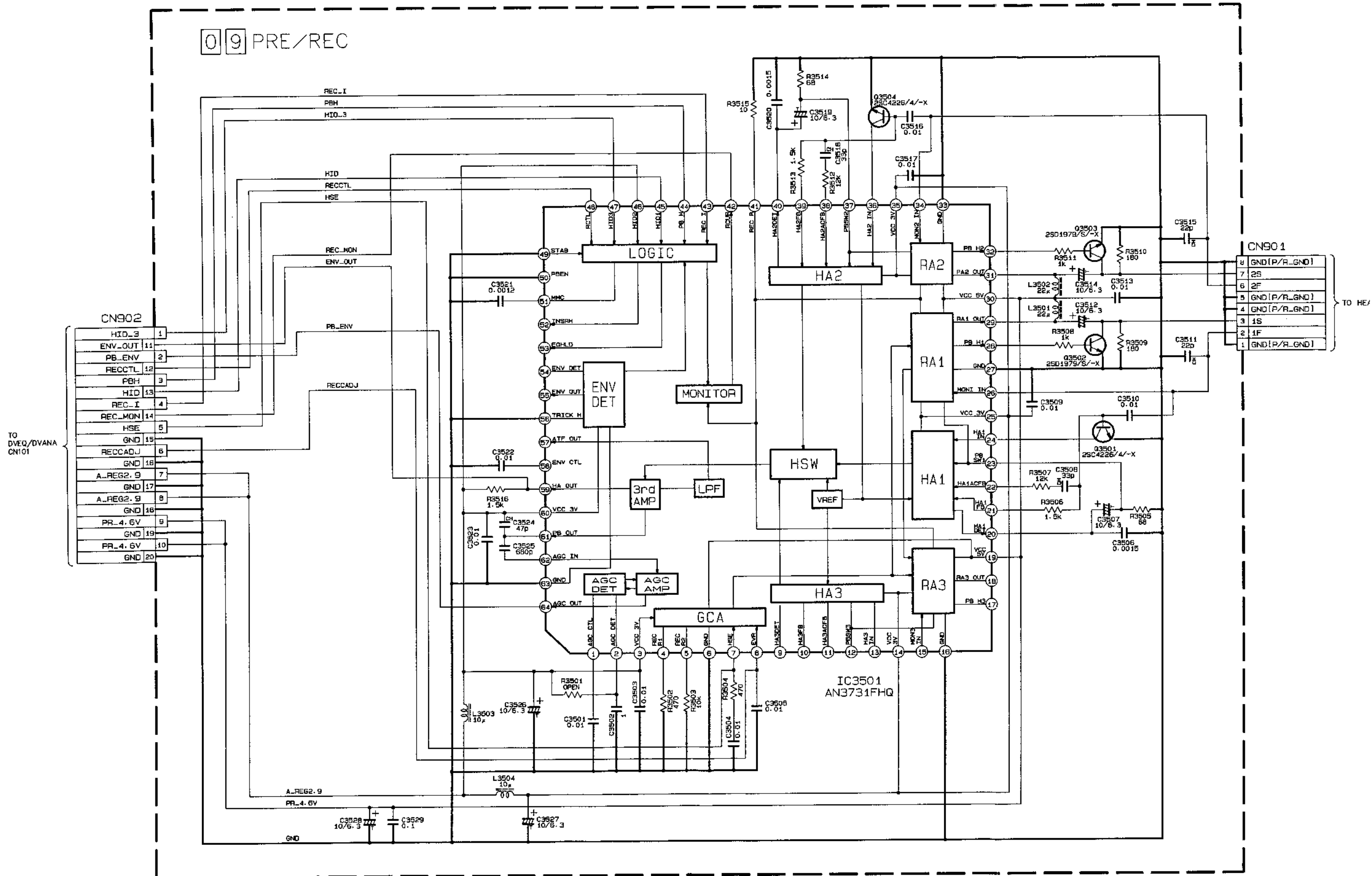
4.21 MONITOR SCHEMATIC DIAGRAM



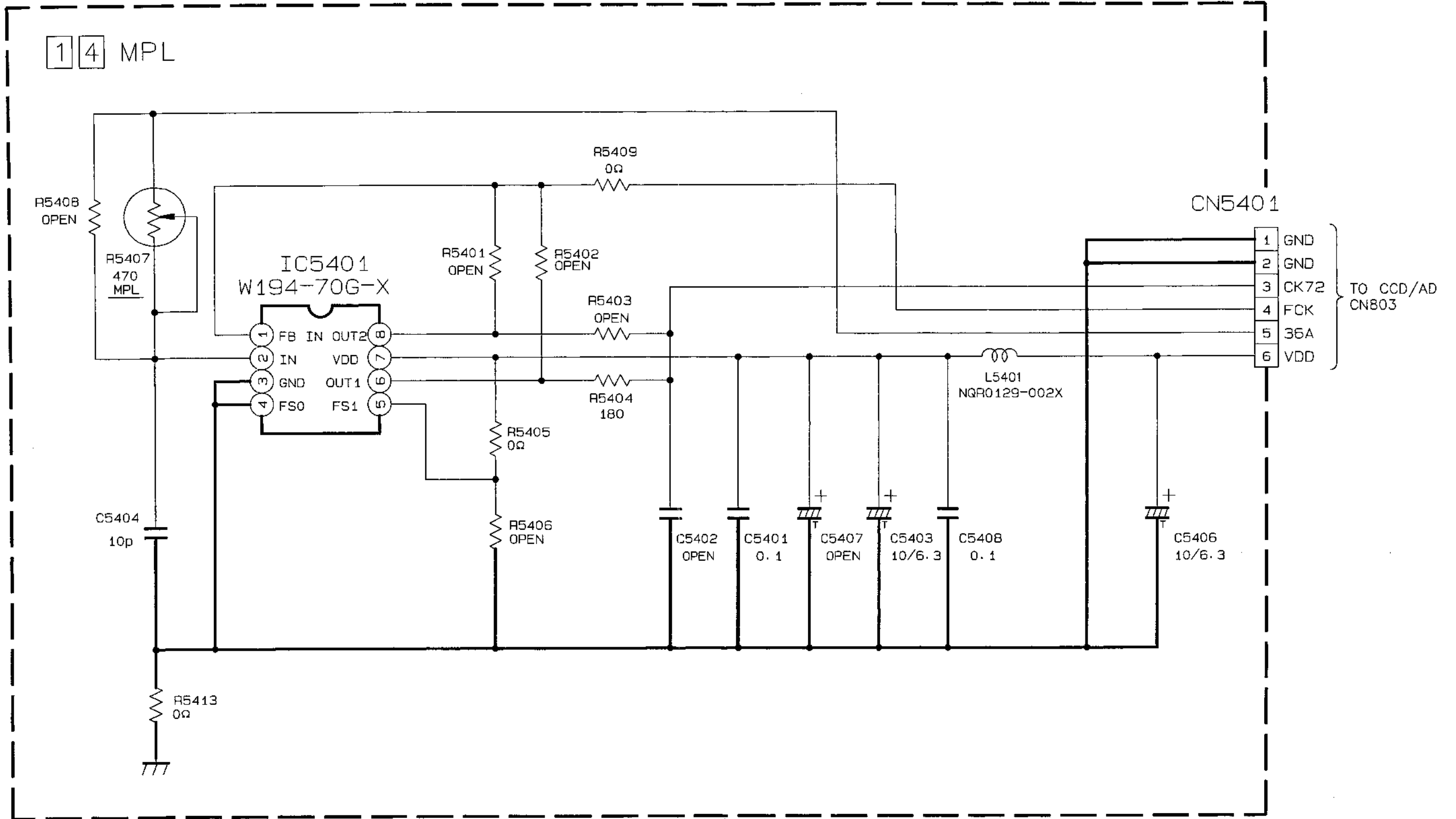
4.22 CCD/AD SCHEMATIC DIAGRAM



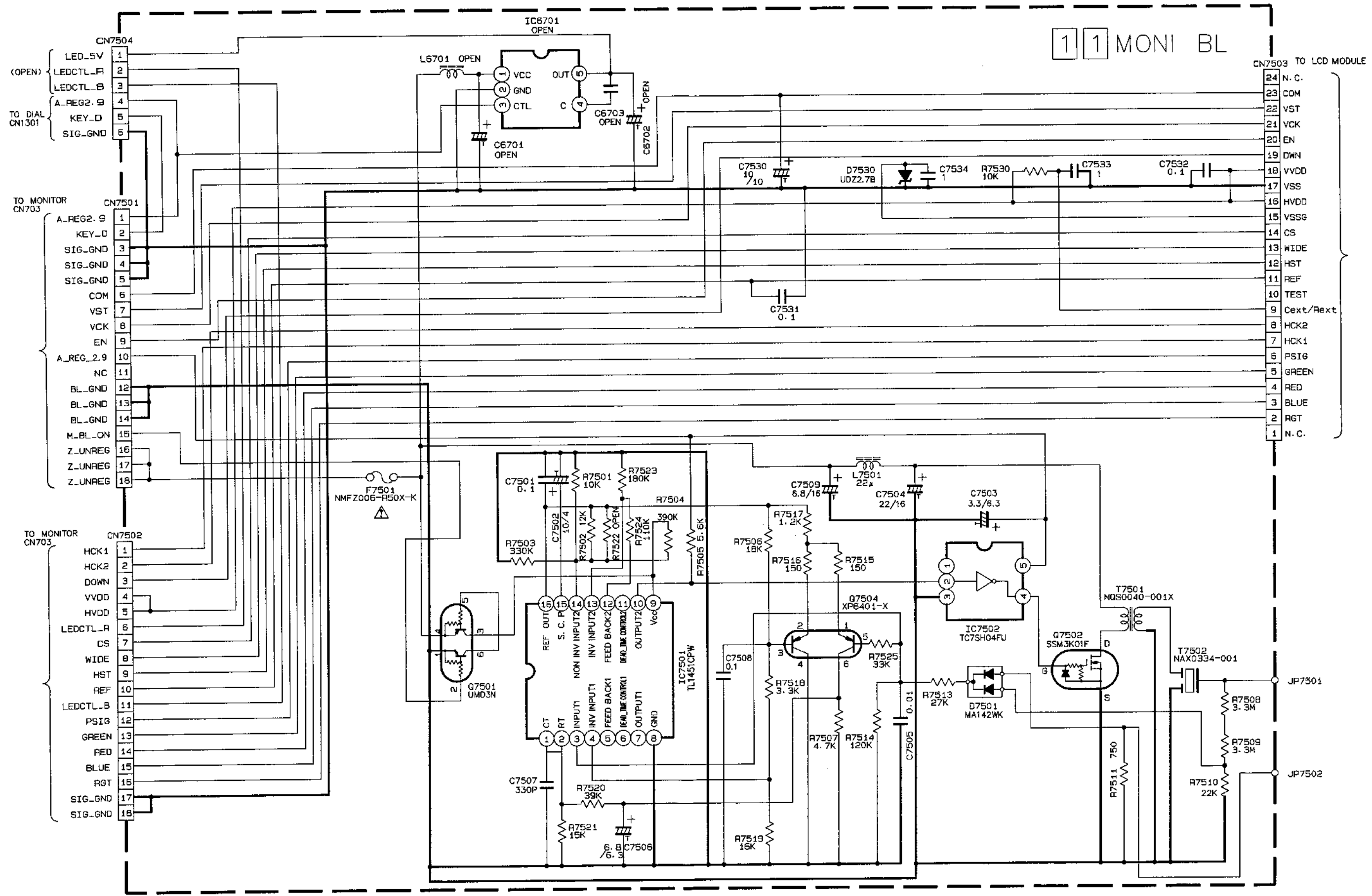
4.23 PRE/REC SCHEMATIC DIAGRAM



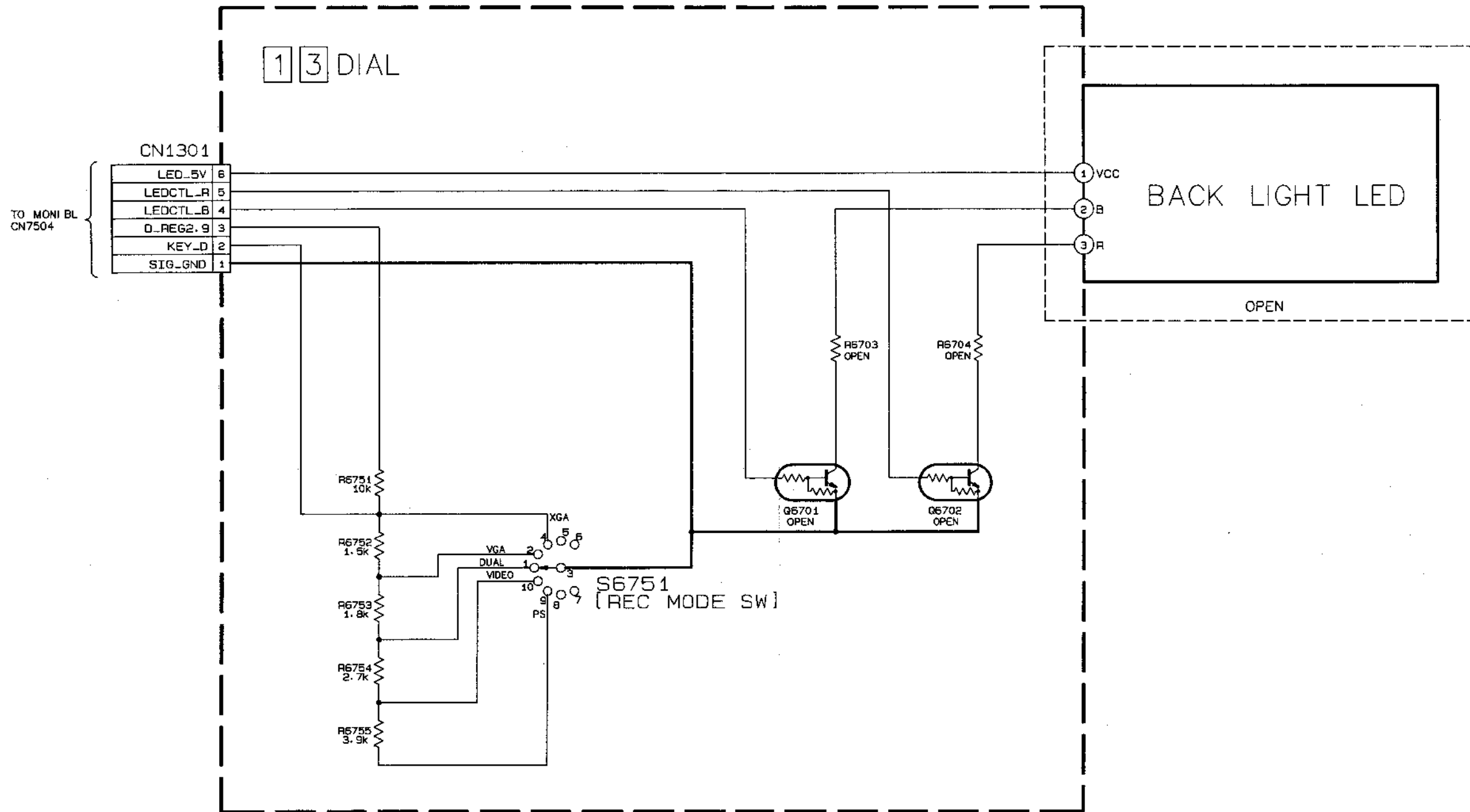
4.24 MPL SCHEMATIC DIAGRAM



4.25 MONITOR BL SCHEMATIC DIAGRAM

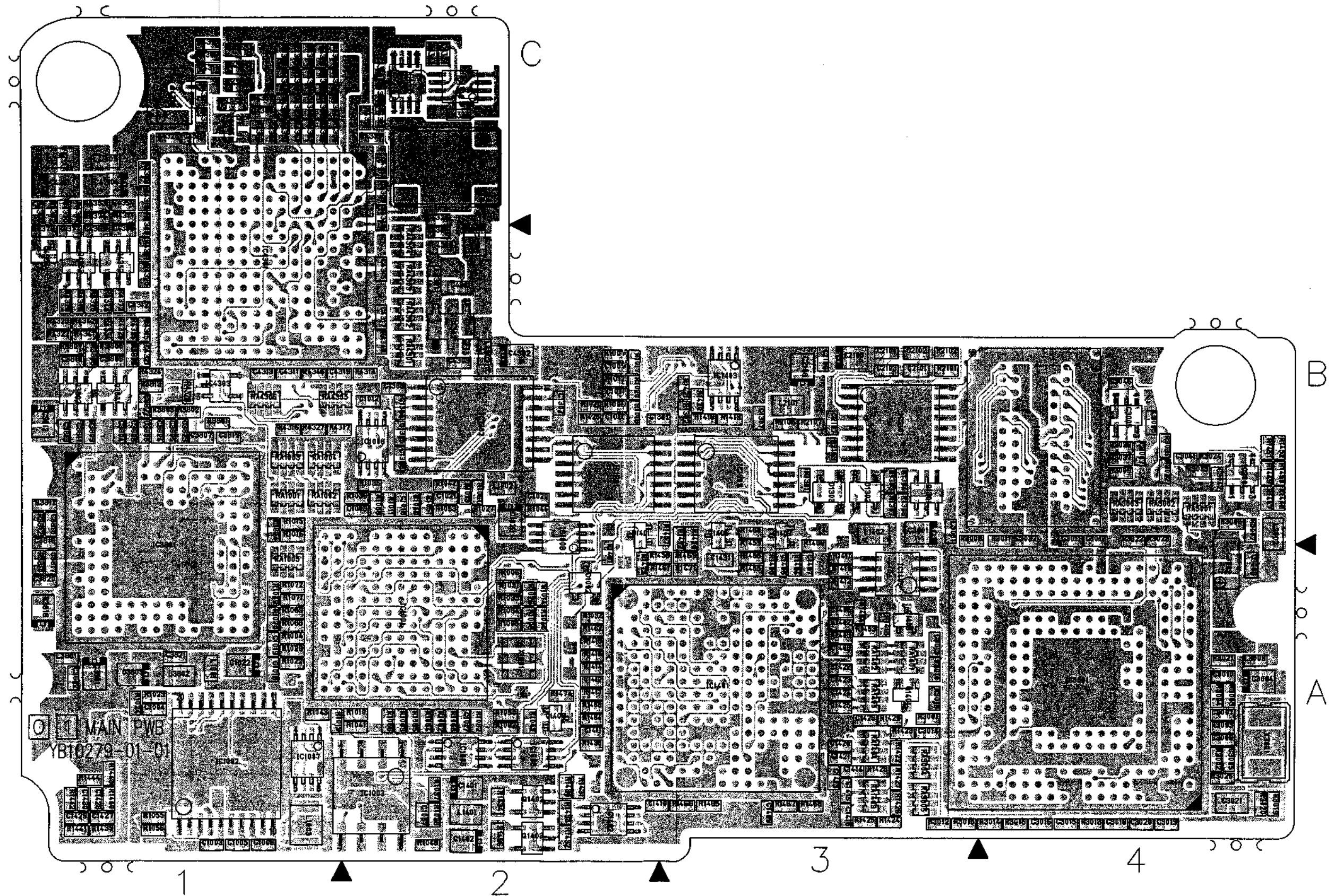


4.26 DIAL SCHEMATIC DIAGRAM



4.28 MAIN CIRCUIT BOARD

FOIL SIDE (B)

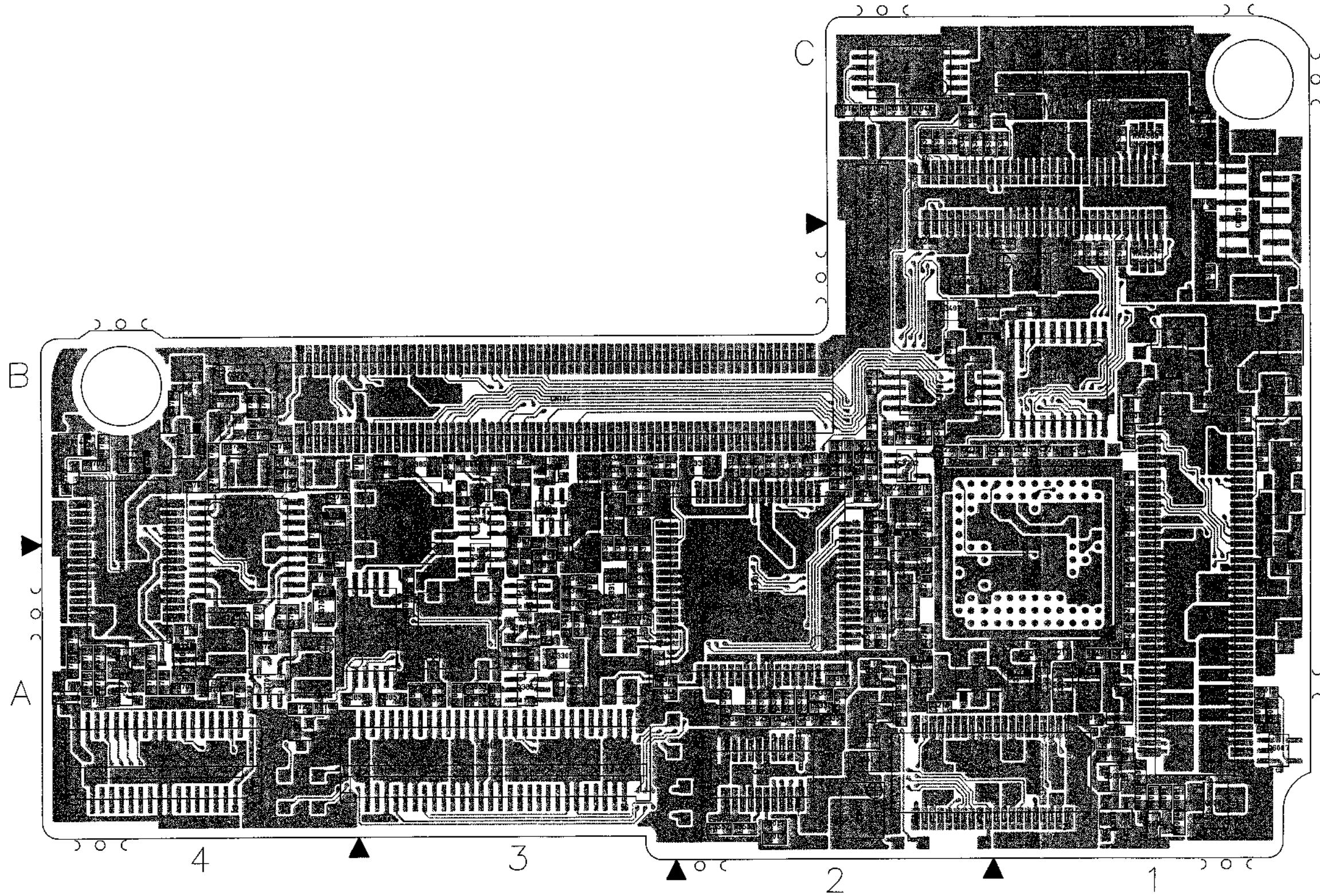


COMPONENT PARTS LOCATION GUIDE (MAIN)

REF.No.	LOCATION	REF.No.	LOCATION	REF.No.	LOCATION	REF.No.	LOCATION	REF.No.	LOCATION																																		
CAPACITOR																																											
C1003	B C 1A	C3046	B C 4B	C3735	A C 4B	C6003	A C 1B	L3303	A C 2A																																		
C1004	B C 1A	C3047	B C 4B	C3736	A C 4B	C6004	A C 1A	L3304	A C 2B																																		
C1005	B C 1A	C3201	A C 1A	C3801	B C 1A	C6005	A C 1B	L3305	A C 2B																																		
C1006	B C 1A	C3202	A C 1A	C3802	B C 1A	C6006	A C 1B	L3401	A C 2B																																		
C1007	B C 2A	C3203	A C 1A	C3803	B C 1A	C6007	A C 1B	L3551	A C 2A																																		
C1008	B C 2B	C3204	A C 1A	C3804	B C 1B	C6008	A C 1B	L3701	A C 4B																																		
C1009	B C 2B	C3205	A C 1B	C3805	B C 1B	C6009	A C 1A	L3731	A C 4B																																		
C1010	B C 2B	C3206	A C 1B	C3806	B C 1B	CONNECTOR			L3732	A C 4B																																	
C1011	B C 2B	C3207	A C 2A	C3807	B C 1B	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>CN101</td> <td>A C</td> <td>2A</td> </tr> <tr> <td>CN102</td> <td>A C</td> <td>2A</td> </tr> <tr> <td>CN103</td> <td>A C</td> <td>1B</td> </tr> <tr> <td>CN104</td> <td>A C</td> <td>4B</td> </tr> <tr> <td>CN105</td> <td>A C</td> <td>4B</td> </tr> <tr> <td>CN106</td> <td>A C</td> <td>4A</td> </tr> <tr> <td>CN107</td> <td>A C</td> <td>3A</td> </tr> <tr> <td>CN108</td> <td>A C</td> <td>1A</td> </tr> <tr> <td>CN109</td> <td>A C</td> <td>1B</td> </tr> </table>			CN101	A C	2A	CN102	A C	2A	CN103	A C	1B	CN104	A C	4B	CN105	A C	4B	CN106	A C	4A	CN107	A C	3A	CN108	A C	1A	CN109	A C	1B	L3801	B C 1A						
CN101	A C	2A																																									
CN102	A C	2A																																									
CN103	A C	1B																																									
CN104	A C	4B																																									
CN105	A C	4B																																									
CN106	A C	4A																																									
CN107	A C	3A																																									
CN108	A C	1A																																									
CN109	A C	1B																																									
C1012	B C 2B	C3208	A C 2A	C3808	B C 1B	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>D1002</td> <td>B C</td> <td>2A</td> </tr> <tr> <td>D1302</td> <td>B C</td> <td>3B</td> </tr> <tr> <td>D1303</td> <td>B C</td> <td>3B</td> </tr> <tr> <td>D1401</td> <td>B C</td> <td>2A</td> </tr> <tr> <td>D3701</td> <td>A C</td> <td>4A</td> </tr> <tr> <td>D6001</td> <td>A C</td> <td>1A</td> </tr> <tr> <td>D6002</td> <td>A C</td> <td>1B</td> </tr> </table>			D1002	B C	2A	D1302	B C	3B	D1303	B C	3B	D1401	B C	2A	D3701	A C	4A	D6001	A C	1A	D6002	A C	1B	L3802	B C 1A												
D1002	B C	2A																																									
D1302	B C	3B																																									
D1303	B C	3B																																									
D1401	B C	2A																																									
D3701	A C	4A																																									
D6001	A C	1A																																									
D6002	A C	1B																																									
C1013	A C 2C	C3209	A C 1A	C3809	B C 1B				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Q1301</td> <td>B C</td> <td>3B</td> </tr> <tr> <td>Q1401</td> <td>B C</td> <td>3A</td> </tr> <tr> <td>Q1402</td> <td>B C</td> <td>2A</td> </tr> <tr> <td>Q1403</td> <td>B C</td> <td>2A</td> </tr> <tr> <td>Q1405</td> <td>B C</td> <td>3A</td> </tr> <tr> <td>Q1406</td> <td>B C</td> <td>3A</td> </tr> <tr> <td>Q1407</td> <td>B C</td> <td>3A</td> </tr> <tr> <td>Q1408</td> <td>B C</td> <td>2A</td> </tr> <tr> <td>Q3551</td> <td>A C</td> <td>2A</td> </tr> <tr> <td>Q3552</td> <td>A C</td> <td>2A</td> </tr> </table>			Q1301	B C	3B	Q1401	B C	3A	Q1402	B C	2A	Q1403	B C	2A	Q1405	B C	3A	Q1406	B C	3A	Q1407	B C	3A	Q1408	B C	2A	Q3551	A C	2A	Q3552	A C	2A	L3851	A C 3B
Q1301	B C	3B																																									
Q1401	B C	3A																																									
Q1402	B C	2A																																									
Q1403	B C	2A																																									
Q1405	B C	3A																																									
Q1406	B C	3A																																									
Q1407	B C	3A																																									
Q1408	B C	2A																																									
Q3551	A C	2A																																									
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R1004	B C	1A																																									
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R1006	B C	2A																																									
R1007	B C	2B																																									
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C1430	B C 1A	C3331	A C 2A	C4310	B C 1C										<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>L3302</td> <td>A C</td> <td>2A</td> </tr> </table>						L3302	A C	2A																				
L3302	A C	2A																																									
C1431	B C 3A	C3332	A C 2A	C4311	B C 1B													<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>L3302</td> <td>A C</td> <td>2A</td> </tr> </table>			L3302	A C	2A																				
L3302	A C	2A																																									
C2101	B C 3B	C3333	A C 2B	C4312	B C 1B				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>L3302</td> <td>A C</td> <td>2A</td> </tr> </table>												L3302	A C	2A																				
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L3302	A C	2A																																									
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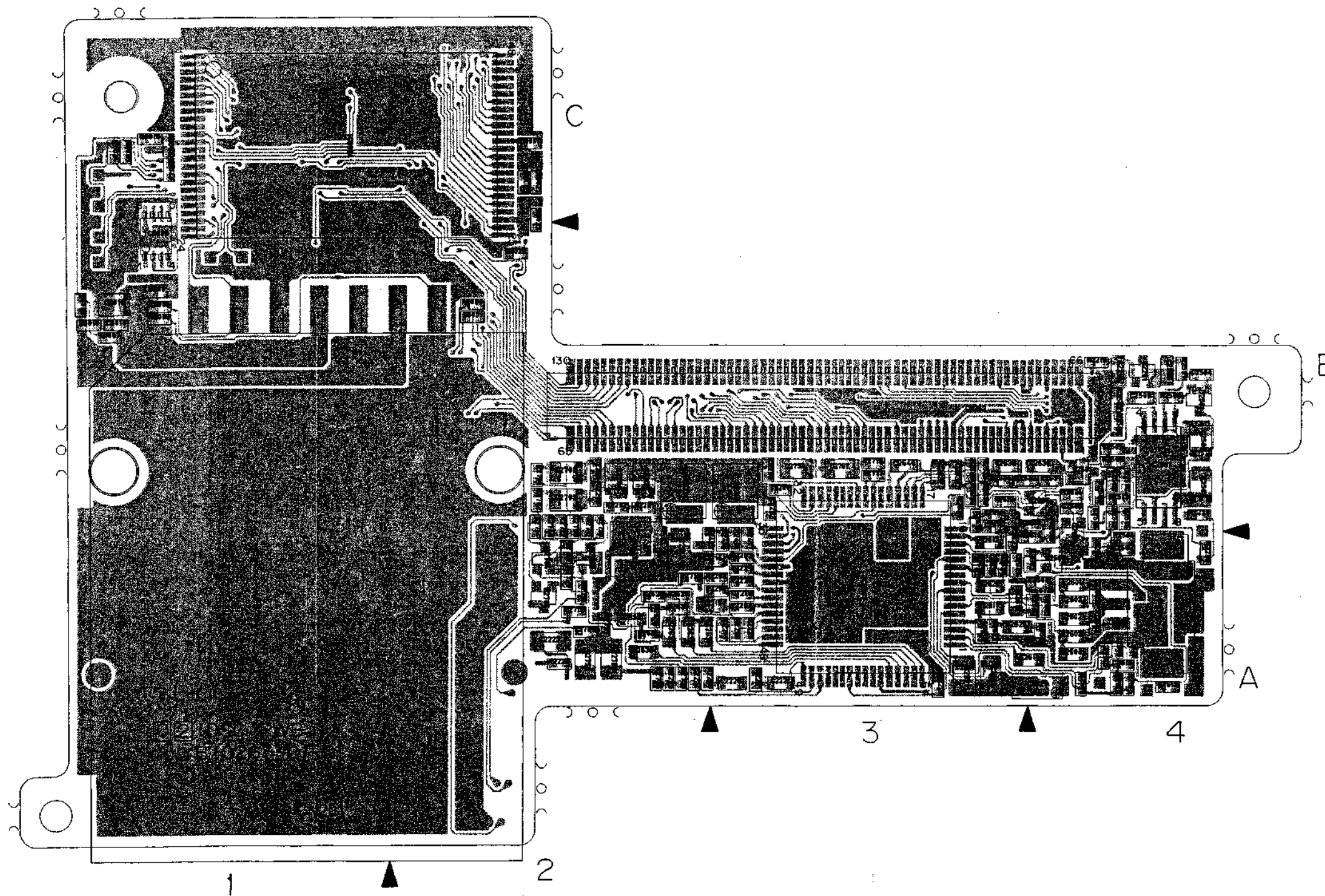
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R1027	B B C 2B	R1449	B C 4B	R3319	A C 2B	R3864	A C 3B	R4379	B B C 1C
R1029	B B C 1A	R1450	B C 4B	R3320	A C 2B	R3865	A C 3B	R4381	B B C 1C
R1031	B B C 2A	R1451	B C 4B	R3321	A C 3B	R3866	A C 3B	R4382	B C 1C
R1032	B B C 2A	R1452	B C 4B	R3322	A C 3B	R3867	A C 3A	R6001	A C 1A
R1033	B B C 2A	R1453	B C 3A	R3323	A C 3B	R3868	A C 3B	R6002	A C 1A
R1034	B B C 2A	R1454	B C 3A	R3324	A C 3B	R3869	A C 3B	R6003	A C 1A
R1035	B B C 2B	R1455	B C 3A	R3325	A C 3B	R3870	A C 3A	R6004	A C 1A
R1036	B B C 2B	R1456	B C 3A	R3326	A C 3B	R3871	A C 3A	R6005	A C 1A
R1037	B B C 2A	R1457	B C 3A	R3327	A C 3B	R3872	A C 3A	R6006	A C 1A
R1038	B B C 2A	R1458	B C 2A	R3328	A C 3B	R3873	A C 3A	R6007	A C 1A
R1040	B B C 2B	R1459	B C 3A	R3329	A C 3A	R3874	A C 3B	R6008	A C 1A
R1041	B B C 2A	R1460	B C 3A	R3330	A C 3A	R4301	B C 1C	R6009	A C 1B
R1042	B B C 2A	R1461	B C 2A	R3331	A C 3A	R4302	B C 1C	R6010	A C 1B
R1043	B B C 1A	R1462	B C 2A	R3332	A C 3A	R4303	A C 2C	R6011	A C 1B
R1044	B B C 2B	R1463	B C 2A	R3333	A C 3A	R4304	A C 2C	R6012	A C 1A
R1045	B A C 2C	R1464	B C 2A	R3334	A C 3A	R4305	A C 2C	R6013	A C 1A
R1046	B B C 2A	R1465	B C 3A	R3335	A C 3A	R4307	A C 2C	R6017	A C 1A
R1047	B B C 2B	R1466	B C 3A	R3336	A C 3A	R4308	A C 2C	R6018	A C 1A
R1048	B B C 2A	R1467	B C 3A	R3337	A C 3A	R4309	B C 1C	RA1001	B C 1B
R1049	B B C 1A	R1468	B C 3A	R3338	A C 3A	R4310	B C 1C	RA1002	B C 1B
R1050	B B C 2A	R1469	B C 3A	R3339	A C 3A	R4311	B C 1C	RA1003	B C 1B
R1051	B B C 2B	R1470	B C 3A	R3340	A C 3A	R4312	B C 2C	RA1004	B C 1B
R1052	B B C 2A	R1471	B C 3A	R3341	A C 3A	R4313	B C 2C	RA1005	B C 1A
R1053	B B C 2B	R1472	B C 3A	R3342	A C 3A	R4314	B C 2B	RA1401	B B C 3A
R1055	B B C 1A	R1473	B C 2A	R3343	A C 3A	R4315	B C 1B	RA1402	B B C 3A
R1056	B B C 1A	R1474	B C 2A	R3344	A C 3A	R4316	B C 1B	RA1403	B B C 3A
R1058	B B C 2B	R2101	B C 3B	R3349	A C 2A	R4317	B C 1B	RA1404	B B C 3A
R1061	B B C 2B	R2102	B C 3B	R3350	A C 2A	R4318	A C 1B	RA1405	B B C 3A
R1062	B B C 2A	R2103	B C 3B	R3351	A C 2A	R4319	B C 2C	RA3001	B C 4B
R1063	B B C 2A	R2106	B C 3B	R3352	A C 2A	R4320	B C 1B	RA3002	B C 4B
R1064	B B C 2A	R2107	B C 3B	R3353	A C 2A	R4321	B C 1B	RA3003	B C 4B
R1065	B B C 2A	R3001	B C 3A	R3361	A C 2B	R4322	B C 1B	RA3004	B C 3A
R1066	B B C 2A	R3002	B C 4A	R3362	A C 2B	R4323	B C 1B	RA3005	B C 3A
R1068	B B C 1A	R3003	B C 4A	R3551	A C 2A	R4324	B C 1B	RA4301	B B C 2B
R1069	B B C 1A	R3004	B C 4A	R3552	A C 2A	R4325	B C 1B	RA4302	B B C 2B
R1070	B B C 1A	R3005	B C 4A	R3553	A C 2A	R4326	B C 1B	RA4303	B B C 2B
R1071	B B C 1A	R3006	B C 4B	R3554	A C 2A	R4327	B B C 1B	RA4304	B B C 2B
R1072	B B C 1A	R3007	B C 4A	R3701	A C 4B	R4328	B C 1C	RA4305	B B C 1B
R1301	B B C 3B	R3008	B C 3A	R3702	A C 4B	R4329	A C 1B	RA4306	B C 1B
R1302	B B C 3B	R3009	B C 4B	R3703	A C 4A	R4330	A C 1B	RA4307	A C 1B
R1303	B B C 3B	R3010	B C 3A	R3704	A C 4A	R4331	A C 1B	RA4308	A C 1C
R1304	B B C 3B	R3011	B C 4A	R3705	A C 4A	R4332	A C 1B		
R1307	B B C 3B	R3012	B C 3A	R3706	A C 4A	R4333	A C 1C		
R1308	B B C 3B	R3013	B C 4A	R3707	A C 4A	R4334	B C 1B		
R1401	B B C 2A	R3014	B C 4A	R3708	A C 4A	R4335	B C 1B		
R1403	B B C 3A	R3015	B C 3A	R3709	A C 4A	R4336	A C 2C		
R1404	B B C 3A	R3016	B C 4A	R3711	A C 4A	R4337	A C 2C		
R1408	B B C 3A	R3017	A C 2A	R3713	A C 4A	R4338	B C 1C		
R1409	B B C 3A	R3018	B C 3A	R3715	A C 4A	R4339	B C 2C		
R1410	B B C 3A	R3019	B C 4A	R3716	A C 4A	R4340	B C 1B		
R1411	B B C 3A	R3020	B C 4A	R3717	A C 4A	R4341	B C 1B		
R1412	B B C 3A	R3021	B C 4A	R3718	A C 4A	R4342	B C 1B		
R1413	B B C 3A	R3022	B C 4A	R3719	A C 4A	R4343	A C 2C		
R1414	B B C 2A	R3023	B C 4A	R3720	A C 4A	R4344	A C 1C		
R1415	B B C 2A	R3024	B C 4B	R3721	A C 4A	R4345	B C 2B		
R1416	B B C 2A	R3026	B C 4A	R3722	A C 4A	R4346	B C 1B		
R1417	B B C 2A	R3031	B C 4B	R3731	A C 4B	R4347	B C 2C		
R1418	B B C 2A	R3032	B C 4B	R3732	A C 4B	R4348	B C 2B		
R1419	B B C 3B	R3033	B C 4B	R3733	A C 4B	R4351	B C 1B		
R1420	B B C 3B	R3036	B C 4B	R3734	A C 4B	R4352	B C 1B		
R1421	B B C 3B	R3037	B C 4B	R3801	B C 1B	R4353	B C 1C		
R1422	B B C 3A	R3201	A C 1A	R3802	B C 1B	R4354	B C 1C		
R1423	B B C 3A	R3202	A C 1A	R3803	B C 1B	R4355	B C 1C		
R1424	B B C 3A	R3203	A C 2B	R3804	B C 1A	R4356	B C 1C		
R1425	B B C 3A	R3204	A C 2A	R3805	B C 1B	R4358	B C 1C		
R1426	B B C 3A	R3208	A C 1A	R3806	B C 1B	R4359	B C 1C		
R1427	B B C 3A	R3209	A C 1B	R3807	B C 1B	R4360	B C 1C		
R1428	B B C 3A	R3211	A C 2B	R3808	B C 1B	R4361	B C 1C		
R1429	B B C 3A	R3212	A C 2B	R3809	B C 1B	R4362	B C 1C		
R1430	B B C 2A	R3301	A C 2B	R3810	B C 1A	R4363	B C 1C		
R1431	B B C 2A	R3302	A C 2B	R3811	B C 1B	R4364	B C 1C		
R1432	B B C 2A	R3303	A C 2B	R3812	B C 1B	R4365	B C 1C		
R1433	B B C 2A	R3305	A C 2A	R3813	B C 1B	R4366	B C 1C		
R1434	B B C 2A	R3306	A C 2A	R3851	A C 3A	R4367	B C 1C		
R1436	B B C 2A	R3308	A C 2A	R3852	A C 3A	R4368	B C 1C		
R1438	B B C 2A	R3309	A C 2A	R3853	A C 3A	R4369	B C 1B		
R1439	B B C 1A	R3310	A C 2A	R3854	A C 3A	R4370	B C 1B		
R1440	B B C 1A	R3311	A C 2B	R3855	A C 3A	R4371	B C 1B		
R1441	B B C 1A	R3312	A C 2A	R3856	A C 3A	R4372	B C 1B		
R1442	B B C 1A	R3313	A C 2A	R3857	A C 3A	R4373	B B C 1B		
R1443	B B C 1A	R3314	A C 2B	R3858	A C 3A	R4374	B C 1B		
R1444	B B C 1A	R3315	A C 2B	R3859	A C 3A	R4375	B C 1B		
		R3316	A C 2B	R3861	A C 3A	R4376	B C 1B		
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								FL3851	A C 3A
								FL3852	A C 3B
								JP3201	B C 1A
								JP4301	B C 1C
								TH3301	A C 2B
								TH3302	A C 2B
								X1001	A B C 2A
								X1002	A B C 2C
								X3001	B C 4A
								X3301	A B C 3A
								X4301	B C 2C

COMPONENT SIDE (A)



4.29 DSC CIRCUIT BOARD

FOIL SIDE (B)



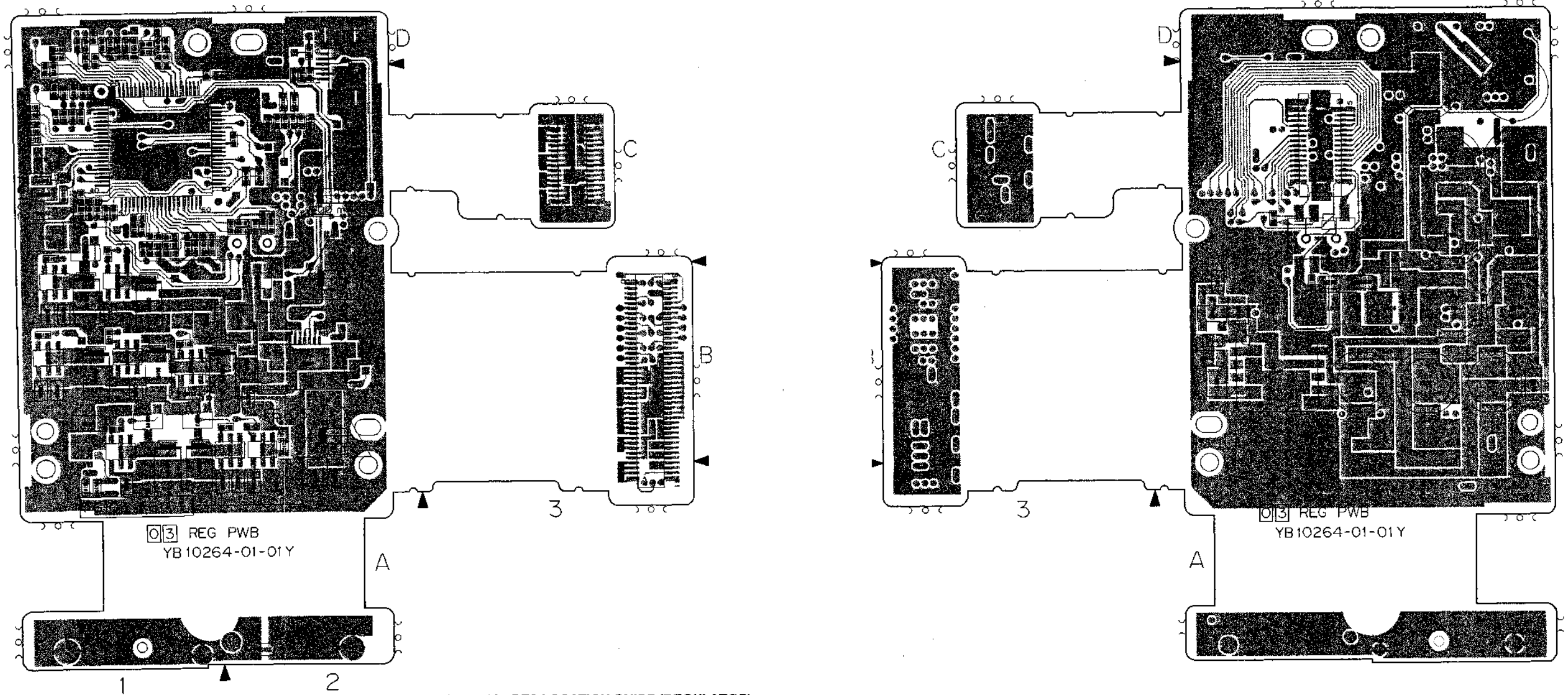
COMPONENT PARTS LOCATION GUIDE (DSC)

REF.No.	LOCATION	REF.No.	LOCATION	REF.No.	LOCATION
CAPACITOR					
C1201	A C 3A	C4802	A C 3B	C8045	A C 1A
C1202	A C 3A	C4803	A C 3A	C8046	A C 1A
C1203	A C 3A	C4804	A C 3A	C8048	A C 1C
C1204	A C 3A	C4805	A C 4B	C8049	A C 1C
C2202	B C 3B	C4806	A C 4B	C8050	A C 2C
C2203	B C 2B	C4807	A C 4B	C8051	A C 2C
C2204	B C 2B	C4808	A C 4B	C8052	A C 2C
C2205	B C 2B	C4809	A C 4B	C8053	A C 2C
C2206	B C 2B	C4810	A C 4B	C8054	A C 2C
C2207	B C 3B	C4811	A C 4B	C8055	A C 2B
C2208	B C 3B	C4812	A C 4B	C8056	A C 2C
C2210	B C 3B	C4813	A C 3A	C8057	A C 1B
C2211	B C 2B	C4814	A C 4B	C8058	A C 2B
C2212	B C 2A	C4815	A C 3B	C8059	A C 1C
C2214	B C 3A	C4816	A C 4B	C8060	A C 1C
C2215	B C 3A	C4817	A C 3B	CONNECTOR	
C2216	B C 3A	C4818	A C 3B	CN201	B C 1A
C2217	B C 3A	C4819	A C 3B	CN202	B C 4B
C2218	B C 4B	C4820	A C 4B	CN203	A C 1B
C2220	B C 3A	C4821	A C 3B	CN204	B C 4A
C2221	B C 3A	C4822	A C 4B	CN205	A C 4A
C2224	B C 2A	C4823	A C 4B	CN206	A C 4B
C2225	B C 2A	C4851	A C 3A	CN207	A C 3B
C2227	B C 2A	C4852	A C 3A	DIODE	
C2401	A C 2A	C4853	A C 3A	D1201	A C 3A
C2405	A C 2A	C4854	A C 2A	D2501	B C 4B
C2406	A C 2A	C4855	A C 3A	D2502	B C 4A
C2407	A C 2A	C4858	A C 3B	D2702	A C 2A
C2411	A C 2A	C4859	A C 3B	D2751	A C 2A
C2413	B C 2A	C4860	A C 3A	IC	
C2501	B C 4B	C4861	A C 3A	IC1201	A C 4A
C2502	B C 4B	C4862	A C 3A	IC2201	B C 3A
C2503	B C 4B	C4863	A C 3A	IC2501	B C 4B
C2504	B C 4B	C4864	A C 2A	IC4802	A C 4B
C2505	B C 4B	C4865	A C 3A	IC4803	A C 4B
C2506	B C 4B	C4866	A C 3B	IC4804	A C 3B
C2508	B C 4B	C6601	A C 2B	IC4805	A C 3B
C2601	B C 4A	C6602	A C 2B	IC4851	A C 3A
C2602	B C 4A	C6603	A C 2B	IC6601	A C 2B
C2603	B C 4A	C6604	A C 2B	IC8001	A C 2C
C2604	B C 4A	C6605	A C 2B	IC8002	A C 2A
C2605	B C 3A	C6611	A C 2B	IC8003	A C 1B
C2606	B C 4B	C6612	A C 3B	IC8004	B C 1C
C2611	B C 4A	C6613	A C 3B	IC8005	A C 2B
C2612	B C 3A	C8001	A C 2B	IC8006	A C 2A
C2613	B C 4A	C8002	A C 2B	IC8007	A C 1A
C2614	B C 3B	C8003	A C 2B	IC8008	A C 1C
C2615	B C 4A	C8004	A C 2B	IC8009	B C 1B
C2616	B C 3B	C8005	A C 2B	COIL	
C2617	B C 3A	C8006	A C 2A	L1201	A C 3A
C2618	B C 3A	C8007	A C 1A	L2401	A C 2A
C2619	B C 3A	C8008	A C 2A	L2601	B C 4A
C2620	B C 3A	C8009	A C 1A	L2602	B C 4A
C2621	B C 3A	C8010	A C 1A	L2603	B C 4A
C2622	B C 3A	C8011	A C 1A	L4801	A C 3B
C2625	B C 3A	C8012	A C 1C	L4802	A C 4A
C2626	B C 3A	C8013	A C 1C	L4851	A C 3A
C2627	B C 3A	C8017	B C 2C	L4852	A C 3A
C2628	B C 3A	C8018	B C 1B	L4853	A C 2A
C2629	B C 4A	C8019	B C 1B	L6601	A C 3B
C2631	B C 3A	C8020	A C 1A	L8001	A C 1A
C2632	B C 3B	C8021	A C 1A	L8002	A C 2A
C2633	B C 2A	C8022	A C 1A	L8003	A C 1C
C2634	B C 3B	C8023	A C 1A	L8005	A C 1A
C2635	B C 2A	C8024	A C 1A	L8006	A C 1A
C2636	B C 4B	C8025	A C 1A	L8007	A C 1A
C2637	B C 2A	C8026	A C 1B	L8008	A C 1A
C2638	B C 3B	C8027	A C 1A	L8009	B C 1B
C2639	B C 2A	C8028	A C 1A	L8010	A C 2C
C2640	B C 3B	C8029	A C 1B	L8011	A C 2B
C2702	B C 2B	C8030	A C 1B	TRANSISTOR	
C2703	B C 2B	C8031	A C 1B	Q2201	B C 4B
C2708	B C 2B	C8032	A C 1B	Q2403	A C 2A
C2709	B C 2B	C8033	A C 1B	Q2405	A C 2A
C2752	A C 2A	C8034	A C 1B	Q2406	A C 2A
C2753	B C 2A	C8035	A C 1B	Q2501	B C 4B
C2754	B C 3B	C8036	A C 1B	Q2603	B C 4A
C2756	A C 2A	C8037	A C 1B	Q2604	B C 4A
C2757	A C 2A	C8038	A C 1B	Q2605	B C 4B
C2764	A C 2A	C8039	A C 1B	Q2703	B C 2A
C2765	A C 2A	C8040	A C 1B		
C2766	B C 2A	C8041	A C 1B		
C2767	B C 3B	C8042	A C 1A		
C4801	A C 3B	C8043	A C 1A		
		C8044	A C 1A		

4.30 REGULATOR CIRCUIT BOARD

FOIL SIDE (B)

COMPONENT SIDE (A)



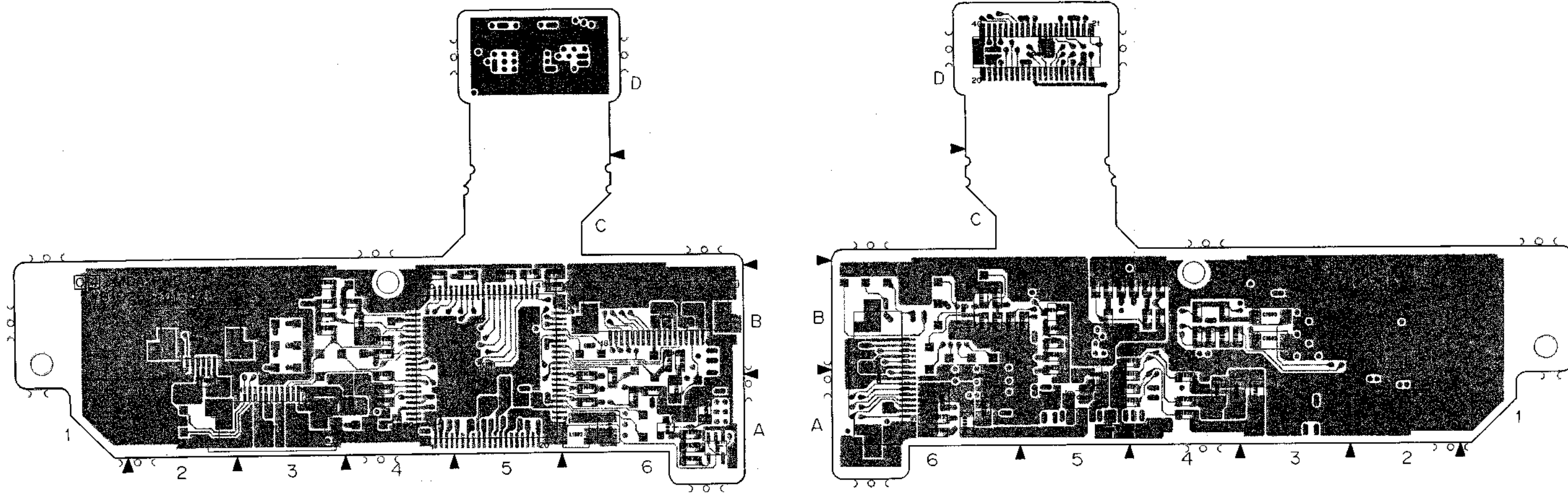
COMPONENT PARTS LOCATION GUIDE (REGULATOR)

REF.No.	LOCATION	REF.No.	LOCATION	REF.No.	LOCATION	REF.No.	LOCATION	REF.No.	LOCATION	REF.No.	LOCATION	REF.No.	LOCATION	REF.No.	LOCATION		
CAPACITOR				DIODE				TRANSISTOR				OTHER					
C6101	B C 1C	C6124	B C 1C	C6150	B C 1A	D6101	B C 1B	L6112	A C 1B	R6105	B C 1C	R6131	B C 1C	R6157	B C 1C		
C6102	B C 1C	C6125	B C 1C	C6151	B C 1B	D6102	B C 2B	L6114	A C 1C	R6106	B C 1D	R6132	B C 1C	R6158	B C 2B		
C6103	B C 2C	C6126	B C 2C	C6152	B C 1B	D6103	B C 1B	L6116	A C 1B	R6107	B C 1D	R6133	B C 1C	R6159	B C 1C		
C6104	B C 1D	C6127	B C 2C	C6153	B C 1C	D6104	A C 2B	L6117	A C 2B	R6108	B C 1C	R6134	B C 1C	R6160	B C 2C		
C6105	B C 1D	C6128	B C 1B	C6154	B C 2A	D6105	A C 2B	L6118	A C 1B	R6109	B C 1D	R6135	B C 1C	R6161	B C 2C		
C6106	B C 1D	C6129	B C 1A	C6155	A C 1B	D6106	B C 2B			R6110	B C 1C	R6136	B C 1C	R6162	B C 2C		
C6107	B C 1D	C6130	B C 1B	C6156	A C 1B	D6107	B C 1B	IC				R6111	B C 1C	R6137	B C 1C	R6163	B C 2D
C6108	B C 1D	C6131	B C 1B	C6157	A C 2B	D6108	B C 1A	Q6103	B C 1B	R6112	B C 1C	R6138	B C 1C	R6164	B C 2C		
C6109	B C 1D	C6132	B C 1C	C6158	A C 2B	D6109	B C 1A	Q6104	B C 1B	R6113	B C 1C	R6139	B C 1C	R6165	B C 2C		
C6110	B C 1D	C6133	B C 1B	C6159	A C 2B			Q6105	B C 1B	R6114	B C 1C	R6140	B C 1C	R6166	B C 2C		
C6111	B C 1D	C6134	A C 1C	C6160	B C 1C			Q6106	B C 2B	R6115	B C 1D	R6141	B C 1C	R6167	B C 2C		
C6112	B C 2C	C6135	B C 1B	C6161	B C 1C	COIL				R6116	B C 1D	R6142	B C 1C	R6168	B C 2C		
C6113	B C 2C	C6136	A C 1B	C6162	B C 1C	IC6101	B C 1C	Q6107	B C 1B	R6117	B C 1D	R6143	B C 2C	R6169	B C 2C		
C6114	B C 1C	C6137	B C 2A	C6163	B C 2C			Q6108	B C 1B	R6118	B C 1D	R6144	B C 2C	R6170	B C 1C		
C6115	B C 1C	C6138	B C 2A	C6164	B C 1C			Q6109	B C 1B	R6119	B C 1D	R6145	B C 2C	R6171	B C 1D		
C6116	B C 1C	C6139	B C 2B	C6165	B C 1C	CONNECTOR				Q6110	B C 1B	R6146	B C 2C				
C6117	B C 1C	C6140	A C 2B	C6166	B C 1C	CN301	B C 3A	L6101	A C 1C	Q6111	B C 1C	R6147	B C 2C				
C6118	B C 1C	C6141	A C 2B	C6167	B C 2C	CN302	B C 3C	L6102	A C 1B	Q6112	B C 2B	R6148	B C 1B				
C6119	B C 1C	C6142	B C 2A			CN303	A C 2C	L6103	A C 1B	Q6113	B C 1B	R6149	B C 1B				
C6120	B C 1C	C6143	B C 2A			CN304	B C 2C	L6104	A C 1C			R6150	B C 1B				
C6121	B C 1C	C6144	A C 2B			CN305	B C 2B	L6105	A C 1C	RESISTOR							
C6122	B C 1C	C6145	B C 1B			CN6101	A D 1A	L6106	A C 1B	R6101	B C 1C	R6126	B C 2C	R6152	B C 2B		
C6123	B C 1C	C6146	B C 1B					L6107	A C 2B	R6102	B C 1C	R6127	B C 2C	R6153	A C 2C		
		C6147	B C 2B					L6108	A C 2B	R6103	B C 1C	R6128	B C 2C	R6154	A C 2B		
		C6148	B C 2B					L6109	A C 2B	R6104	B C 1D	R6129	B C 1C	R6155	B C 1C		
								L6110	A C 1C			R6130	B C 1C	R6156	B C 1B		

4.31 MDA CIRCUIT BOARD

FOIL SIDE (B)

COMPONENT SIDE (A)



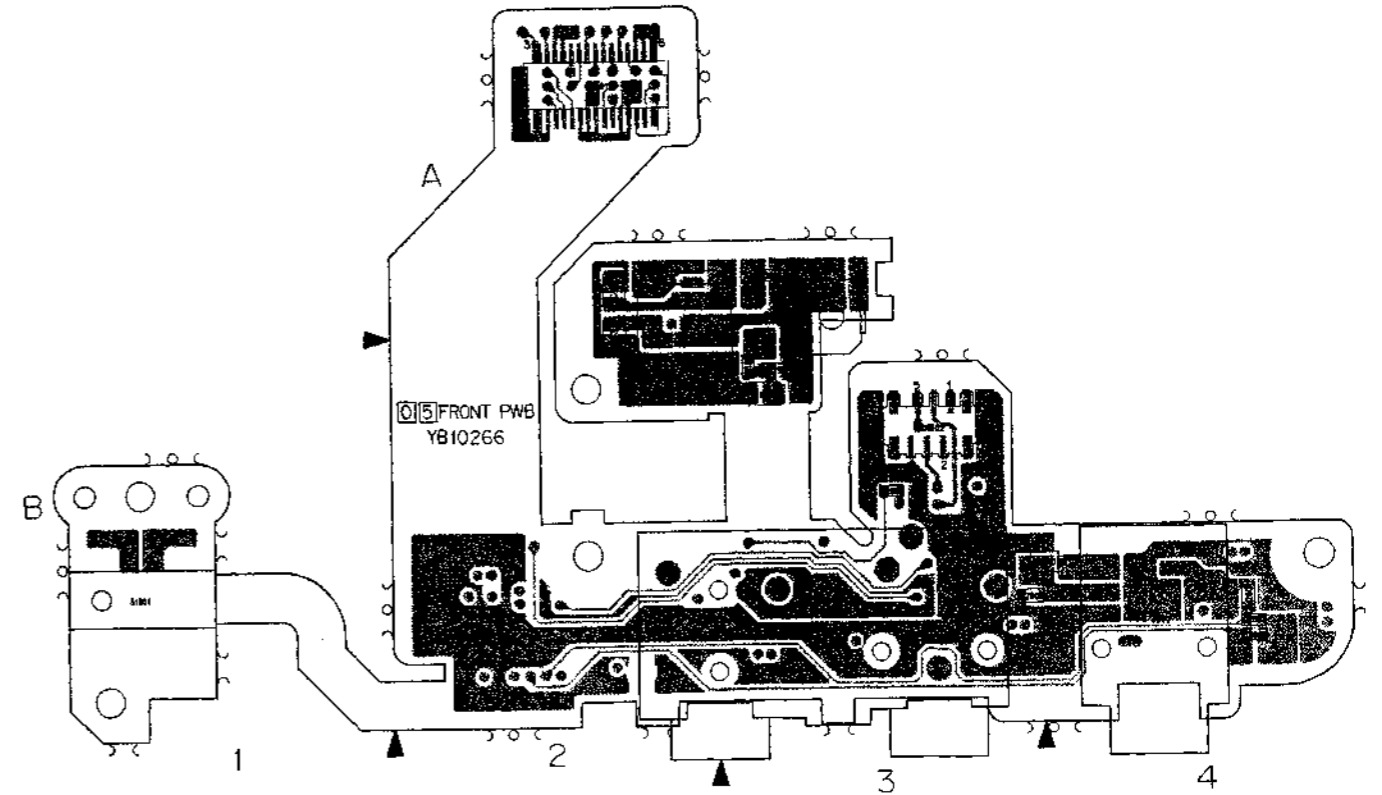
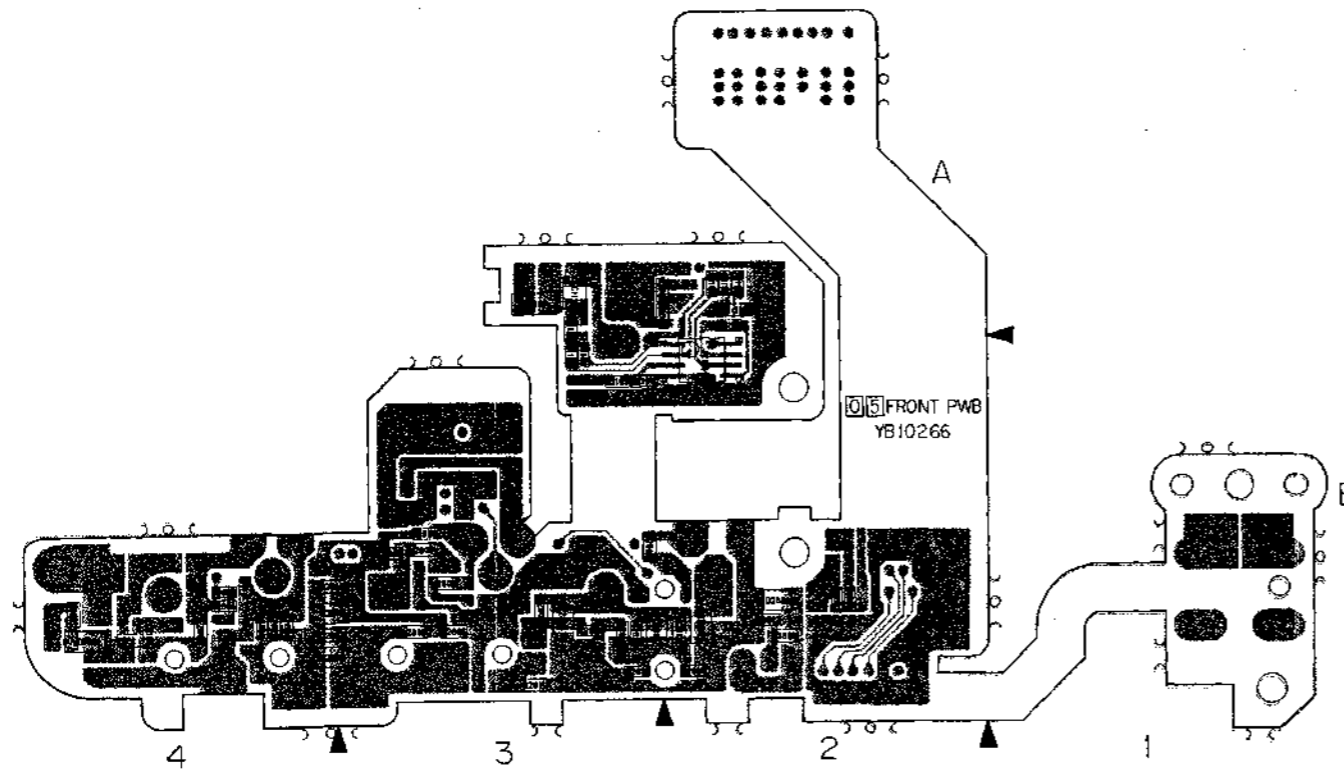
COMPONENT PARTS LOCATION GUIDE (MDA)

REF.No.	LOCATION	REF.No.	LOCATION	REF.No.	LOCATION	REF.No.	LOCATION	REF.No.	LOCATION	REF.No.	LOCATION	REF.No.	LOCATION
CAPACITOR													
C1601	B C 2A	C1618	B C 6A	C1639	A C 4A	D1604	A C 5B	R1603	A C 4B	R1618	A C 5B	R1634	B C 6A
C1602	A C 3B	C1619	B C 6A	C1640	A C 3A	IC		R1604	A C 4B	R1619	A C 4B	R1635	B C 6A
C1603	A C 3B	C1620	B C 6A	C1641	B C 4A	IC1601		R1605	A C 5A	R1620	B C 4B	R1636	B C 6A
C1605	A C 4B	C1621	B C 6A	C1642	A C 6A	COIL		R1606	A C 5B	R1621	B C 4B	R1637	B C 6A
C1606	A C 4B	C1622	A C 5B	CONNECTOR				R1607	A C 5B	R1622	A C 5A	R1638	B C 5B
C1607	B C 6A	C1623	A C 6B	CN401	A C 6B	TRANSISTOR		R1608	A C 5B	R1624	B C 4A	R1639	B C 5B
C1610	A C 5B	C1624	A C 5B	CN402	B C 6B	L1601	B C 6A	R1609	A C 6A	R1625	A C 4A	R1640	B C 3B
C1611	A C 5A	C1625	A C 4A	CN403	B C 3A	L1602	B C 6A	R1610	A C 6B	R1626	A C 4A	R1641	B C 3B
C1612	A C 5A	C1626	A C 4B	CN404	B C 2B	RESISTOR		R1611	A C 6B	R1627	A C 4A	R1642	B C 4A
C1613	A C 5A	C1627	B C 4A	CN405	A C 5D	Q1601	B C 6A	R1612	B C 6B	R1628	B C 4B	R1643	B C 3B
C1614	A C 5A	C1628	B C 4B	DIODE				R1613	B C 6B	R1629	B C 3B	R1644	A C 4B
C1615	A C 6A	C1632	A C 6B	D1602	A C 5A	R1601	A C 4B	R1614	A C 6B	R1630	B C 6A	R1645	A C 4B
C1616	A C 6A	C1633	B C 6A	D1603	B C 6A	R1602	A C 4B	R1615	A C 6B	R1631	B C 5B	R1646	B C 5B
C1617	A C 6A	C1638	A C 4A					R1616	B C 5B	R1632	B C 4B		
								R1617	A C 5B	R1633	B C 4B		

4.32 FRONT CIRCUIT BOARD

FOIL SIDE (B)

COMPONENT SIDE (A)

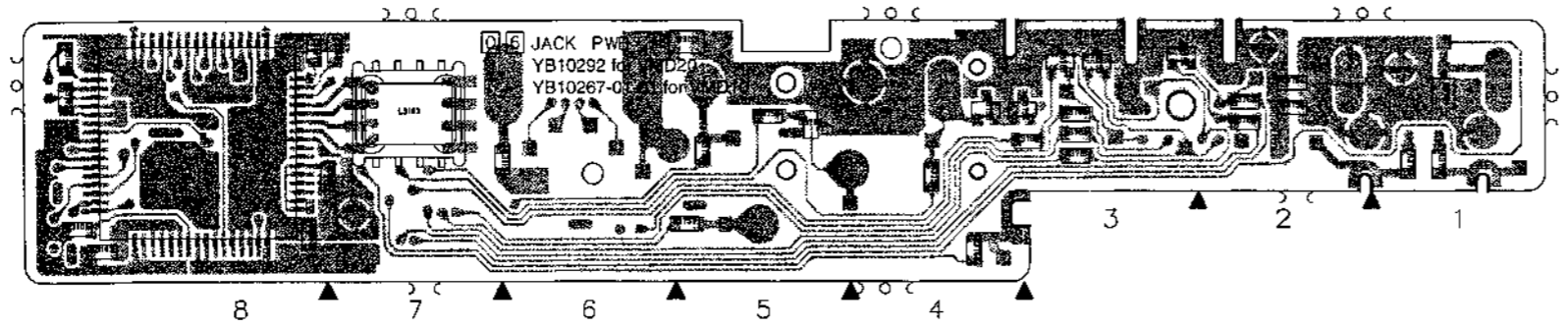


COMPONENT PARTS LOCATION GUIDE (FRONT)

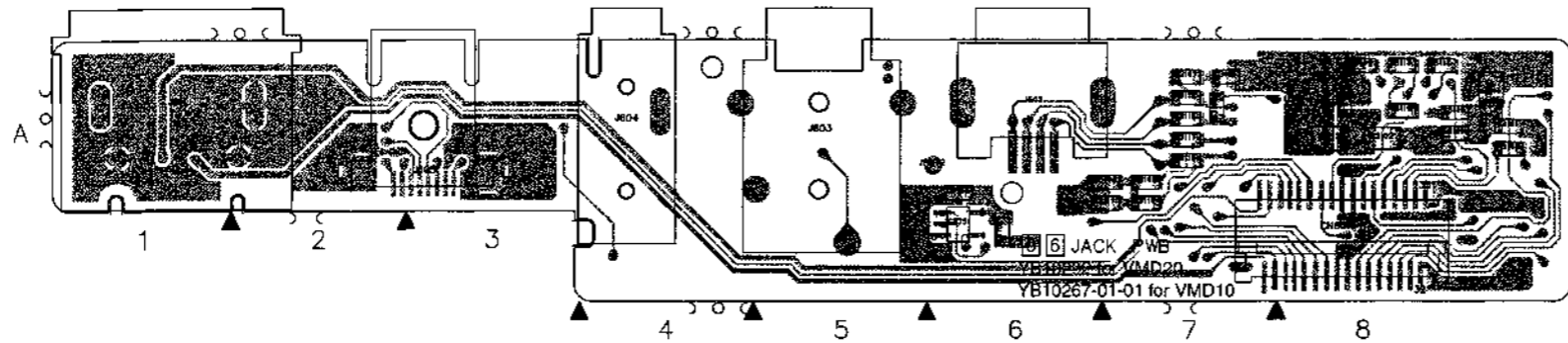
REF.No.	LOCATION	REF.No.	LOCATION	REF.No.	LOCATION	REF.No.	LOCATION	REF.No.	LOCATION
CAPACITOR									
C1101	A C 3A	C2808	B C 4B	D2803	B C 3B	L2808	B C 2B	R1802	B C 2A
C1102	B C 3B	C2809	B C 4B	D2804	B C 2B	L2809	B C 3B	R2803	A C 3B
C1103	B C 3B	C2810	B C 4B	IC		TRANSISTOR		R2804	B C 4B
C1111	B C 2A	C2811	B C 3B					R2805	B C 4B
C1112	B C 3A	C2812	B C 2B	IC1101	B C 2B	Q1151	A D 3A	R2806	B C 4B
C1113	A C 2B	C2813	B C 3B	IC1801	A C 2A	Q1801	B C 4B	R2807	B C 2B
C1151	A C 3B	C2814	B C 2B	COIL		RESISTOR		R2808	B C 2B
C1801	A C 2A	C2815	B C 3B					L1101	B C 3A
C1802	B C 2A	CONNECTOR		L1151	A C 3B	R1102	B C 2A	R2811	B C 3B
C2801	A C 4B			CN501	A C 2A	L2801	A C 4B	R1104	B C 2A
C2802	A C 4B	CN502	A C 3B	L2802	B C 4B	R1106	B C 2A	R2814	B C 2B
C2803	B C 4B	DIODE		L2803	B C 3B	R1107	B C 3B	R2815	B C 3B
C2804	B C 4B			D1801	B C 4B	L2804	B C 3B	R1108	B C 3A
C2805	B C 3B	D2801	A C 3B	L2805	B C 3B	R1109	B C 3B	OTHER	
C2806	B C 3B	D2802	B C 2B	L2806	B C 3B	R1151	A C 3B		
C2807	B C 4B			L2807	B C 3B	R1801	B C 4B	J502	A D 4B
								S1801	A C 1B

4.33 JACK CIRCUIT BOARD FOR VMD10 AND VMD20

FOIL SIDE (B)



COMPONENT SIDE (A)



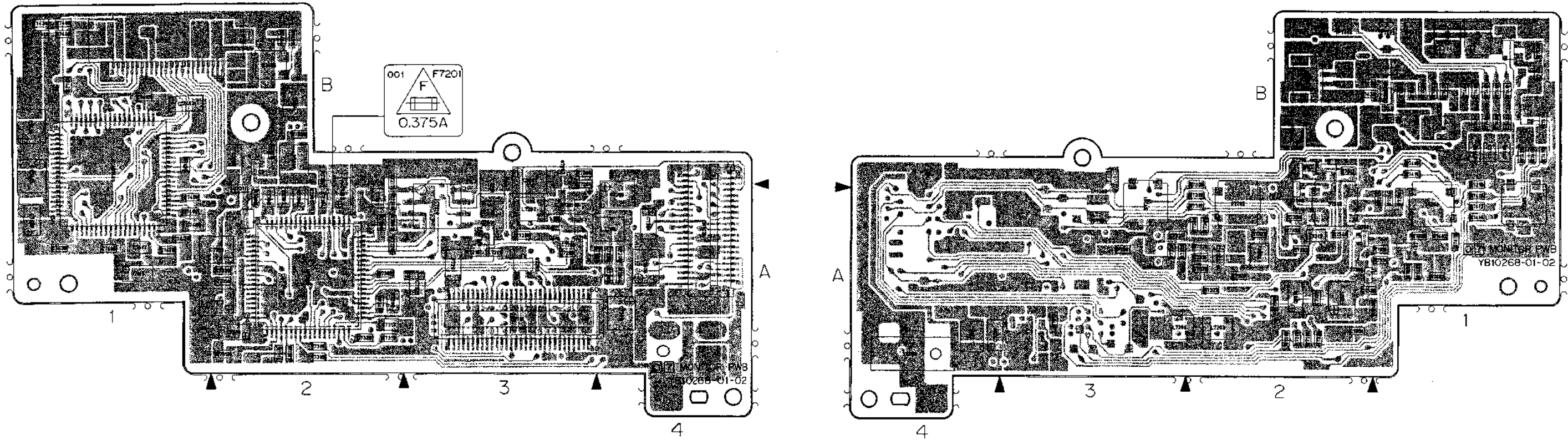
COMPONENT PARTS LOCATION GUIDE (JACK)

REF.No.	LOCATION	REF.No.	LOCATION	REF.No.	LOCATION	REF.No.	LOCATION	REF.No.	LOCATION
CAPACITOR		DIODE		L3751	A C 6A	R3115	A C 7A	R3764	B C 3A
C3101	A C 8A	D3751	B C 1A	RESISTOR		R3116	A C 7A	R3765	B C 3A
C3102	B C 8A	D3752	B C 5A	R3101	B C 8A	R3117	A C 7A	R3766	B C 3A
C3103	B C 8B	D3753	B C 4A	R3102	B C 8A	R3118	A C 7A	OTHER	
C3104	A C 7A	D3754	B C 4A	R3103	A C 8A	R3119	B C 5A	J601	A D 1A
C3105	A C 7A	D3755	B C 3A	R3104	B C 8A	R3751	B C 1A	J602	A C 6A
C3106	B C 7A	D3756	B C 3A	R3105	A C 8A	R3752	B C 1A	J603	A D 5A
C3107	B C 8A	D3757	B C 3A	R3106	B C 8A	R3753	B C 2A	J604	A D 4A
C3108	A C 8A	IC		R3107	A C 7A	R3754	B C 2A	J605	A C 3A
C3109	A C 8A	IC3101	B C 8A	R3108	A C 7A	R3755	B C 5A	JP3101	B C 7A
C3110	A C 8A	IC3751	A C 6A	R3109	A C 7A	R3757	B C 5A	JP3102	A D 6A
C3111	A C 8A	COIL		R3110	A C 7A	R3758	B C 4A	JP3751	B C 1A
C3112	A C 8A	L3101	A C 8A	R3111	A C 7A	R3759	B C 4A	JP3752	B C 2A
C3751	A C 6A	L3102	A C 8A	R3112	B C 7A	R3760	B C 4A		
CONNECTOR		L3103	B C 7A	R3113	A C 8A	R3761	B C 3A		
CN601	A C 7A			R3114	A C 8A	R3762	B C 2A		
						R3763	B C 2A		

4.34 MONITOR CIRCUIT BOARD

FOIL SIDE (B)

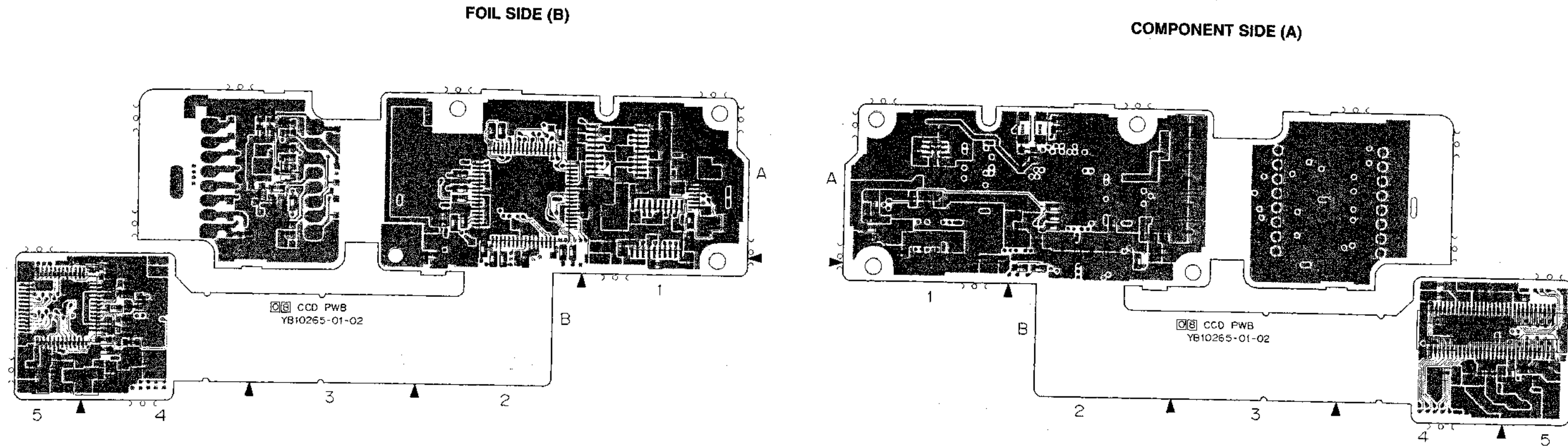
COMPONENT SIDE (A)



COMPONENT PARTS LOCATION GUIDE (MONITOR)

REF.No.	LOCATION	REF.No.	LOCATION	REF.No.	LOCATION	REF.No.	LOCATION	REF.No.	LOCATION	REF.No.	LOCATION	REF.No.	LOCATION	REF.No.	LOCATION
CAPACITOR		C7314	B C 2A	C7406	A C 1B	CONNECTOR		L7300	B C 2B	R7205	B C 3B	R7319	A C 2A	R7408	B C 1B
C7201	B C 3B	C7315	A C 2A	C7407	A C 1B	CN701	B C 3A	L7301	A C 2A	R7210	B C 3A	R7320	A C 2A	R7409	A C 1B
C7202	B C 3A	C7316	A C 2A	C7408	A C 1B	CN702	B C 2B	L7400	A C 2B	R7211	B C 3A	R7321	A C 2A	R7410	A C 1B
C7203	B C 4A	C7317	B C 2A	C7409	A C 1B	CN702	B C 3B	L7401	A C 1B	R7212	A C 3A	R7322	A C 3A	R7411	A C 1B
C7204	B C 3A	C7318	A C 2A	C7410	B C 1B	CN703	B C 4A	TRANSISTOR		R7213	A C 1A	R7323	A C 3A	R7413	A C 1A
C7205	B C 4A	C7319	B C 2A	C7411	B C 1B	CN704	A C 2B	Q7201	B C 3A	R7214	A C 1A	R7324	A C 2A	R7414	A C 1A
C7206	B C 4A	C7320	B C 2A	C7413	B C 1B	DIODE		Q7202	B C 3A	R7215	A C 1A	R7325	A C 2A	R7415	A C 1B
C7207	A C 4A	C7321	A C 2A	C7414	A C 1B	D7201	B C 3A	Q7203	B C 3A	R7216	A C 1B	R7326	B C 2A	R7416	A C 1B
C7209	B C 4A	C7322	A C 2A	C7415	B C 1A	D7300	A C 2A	Q7300	B C 2A	R7217	B C 2B	R7327	A C 2A	R7417	A C 1A
C7210	B C 2A	C7323	A C 2A	C7416	B C 1A	D7400	A C 1B	Q7301	A C 2A	R7300	B C 2A	R7328	B C 2A	R7418	A C 1B
C7211	B C 2A	C7324	A C 3A	C7417	B C 1A	IC		Q7302	A C 2A	R7301	A C 2A	R7331	A C 1A	R7419	A C 1B
C7300	B C 2A	C7325	B C 3A	C7418	A C 1A	IC7201	B C 3A	Q7305	A C 2B	R7302	B C 2A	R7332	A C 1A	R7420	A C 1B
C7301	B C 4A	C7326	A C 2A	C7419	B C 1A	IC7210	B C 3A	Q7306	A C 2B	R7306	B C 2A	R7333	A C 1A	R7421	A C 2B
C7302	B C 2A	C7327	A C 2A	C7420	B C 1A	IC7300	B C 2A	Q7307	B C 2B	R7307	A C 2A	R7334	A C 1A	R7422	A C 1B
C7303	B C 2A	C7330	B C 2A	C7421	A C 1B	IC7400	B C 1B	Q7308	A C 2A	R7308	B C 2A	R7335	A C 1A	R7423	A C 1B
C7304	B C 2A	C7331	A C 2A	C7422	A C 1B	COIL		Q7308	A C 2A	R7309	A C 2B	R7336	B C 2B	R7424	B C 1B
C7305	B C 2A	C7332	A C 2A	C7423	A C 2B	L7201	B C 3A	Q7400	A C 1B	R7310	A C 2A	R7337	B C 2B	R7425	A C 1B
C7306	B C 2A	C7333	A C 2A	C7424	A C 1B	L7202	B C 3A	Q7401	A C 1B	R7311	A C 2A	R7338	B C 2B	R7426	A C 1B
C7307	B C 2A	C7334	A C 2A	C7425	A C 1B	L7203	A C 2A	Q7402	A C 1A	R7312	A C 2B	R7339	B C 2B	R7427	B C 1B
C7308	B C 2A	C7335	B C 2B	C7427	A C 1B	L7204	A C 3A	RESISTOR		R7313	B C 2A	R7340	A C 2A	R7430	A C 1B
C7309	B C 4A	C7400	B C 1A	C7430	B C 1A	L7205	A C 4A	R7201	B C 3A	R7314	B C 2A	R7400	B C 1A	R7431	A C 1B
C7310	B C 2A	C7402	B C 1B	C7431	B C 1A	L7206	B C 4A	R7202	B C 4A	R7315	B C 2A	R7401	B C 1A	R7432	A C 1A
C7311	B C 2A	C7403	B C 1B	C7432	A C 1B			R7203	B C 4A	R7316	B C 2A	R7402	A C 1A	R7433	A C 1A
C7312	A C 2A	C7404	A C 1B	C7433	A C 1B			R7204	B C 4A	R7317	B C 2A	R7406	B C 1B	R7434	B C 2B
C7313	B C 2A	C7405	A C 1B	C7434	A C 1B					R7318	A C 2A	R7407	B C 1B	R7435	B C 2B

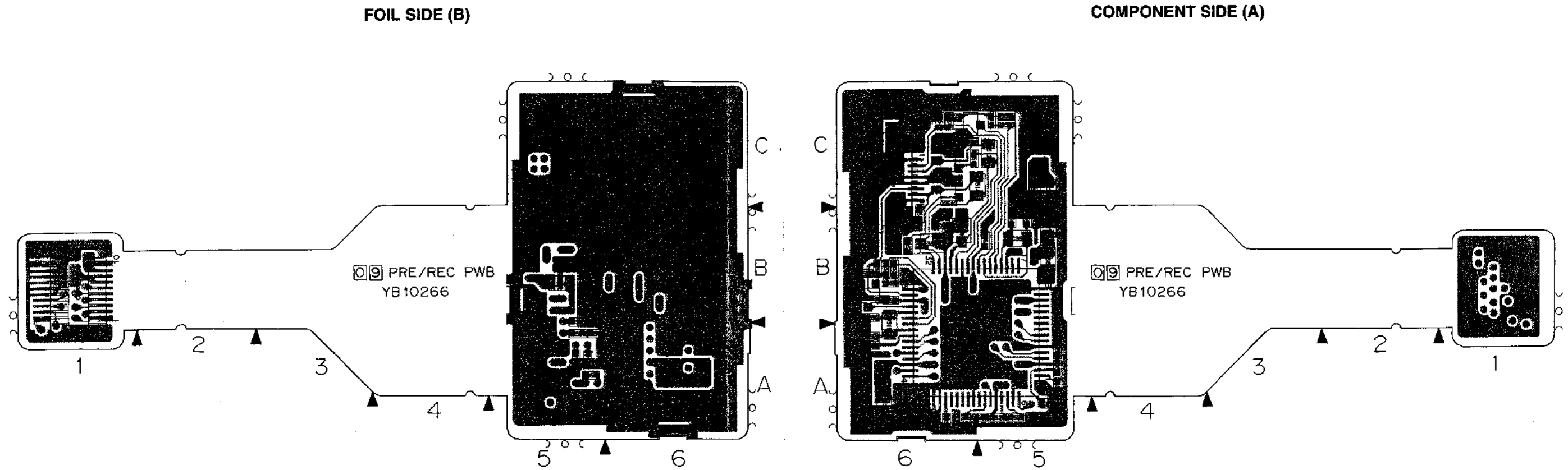
4.35 CCD CIRCUIT BOARD



COMPONENT PARTS LOCATION GUIDE (CCD)

REF.No.	LOCATION	REF.No.	LOCATION	REF.No.	LOCATION	REF.No.	LOCATION	REF.No.	LOCATION	REF.No.	LOCATION
CAPACITOR											
C4101	A C 1A	C4202	B C 4B	C5005	B C 2A						
C4102	B C 1A	C4204	A C 5B	C5006	B C 2A						
C4103	B C 1A	C4205	B C 4B	C5007	B C 2A						
C4104	A C 1A	C4206	A C 4B	C5008	B C 3A						
C4105	A C 1A	C4207	B C 5B	C5009	B C 2B						
C4106	A C 1A	C4214	B C 5B	C5010	B C 1A						
C4107	B C 2A	C4215	B C 5B	C5201	A C 2A						
C4108	B C 2A	C4216	B C 4B	C5202	A C 2A						
C4109	B C 1A	C4217	B C 4B	C5203	A C 3A						
C4110	B C 1A	C4218	B C 4B	C5204	A C 2A						
C4111	A C 2A	C4219	B C 4B	C5205	A C 2A						
C4112	A C 2A	C4220	B C 4B	C5206	A C 2A						
C4113	A C 2A	C4221	B C 4B	C5207	B C 3A						
C4114	B C 1A	C4222	B C 4B	C5208	B C 3A						
C4115	B C 1A	C4223	B C 4B	C5209	B C 3A						
C4116	B C 1A	C4224	B C 4B	C5210	B C 3A						
C4117	B C 1B	C4225	B C 4B	C5211	A C 2A						
C4118	B C 1A	C4226	B C 5B	C5212	A C 2A						
C4119	A C 1A	C4227	A C 5B	C5213	A C 3A						
C4120	A C 1A	C4228	A C 4B	C5214	A C 3A						
C4121	B C 2A	C5001	A C 1A	C5215	A C 3A						
C4122	B C 1B	C5002	B C 1A	C5216	A C 3A						
C4201	B C 5B	C5003	B C 1A	C5217	B C 4A						
		C5004	B C 1A								
CONNECTOR											
CN801	A C 5B	L204	A C 4B	R4207	A C 5B	R5019	A C 2A				
CN802	A D 3A	L5001	A C 1A	R4208	B C 4B	R5020	B C 1A				
CN803	B C 1A	L5002	B C 1A	R4209	B C 4B	R5021	A C 2A				
		L5201	A C 2A	R4210	A C 4B	R5022	A C 2B				
		L5202	A C 2A	R4211	A C 4B	R5023	A C 2B				
		L5203	A C 2A	R4212	A C 4B	R5025	B C 1A				
		L5204	A C 2A	R4213	A C 4B	R5026	B C 1A				
				R4214	A C 4B	R5027	A C 1A				
				R5003	B C 2A	R5028	A C 1A				
				R5004	B C 2A	R5029	B C 2B				
				R5005	B C 2A	R5201	B C 3A				
				R5006	B C 2A	R5202	B C 3A				
				R5007	B C 2A	R5203	B C 3A				
				R5008	B C 2A	R5204	B C 3A				
				R5009	B C 2A	R5205	B C 3A				
				R5010	B C 2A	R5206	B C 3A				
				R5011	B C 2B	R5207	B C 3A				
				R5012	B C 2B	R5208	B C 3A				
				R5013	B C 3A	R5210	A C 2A				
				R5014	B C 2A						
				R5015	B C 2A						
				R5016	A C 1A						
				R5017	A C 2A						
				R5018	A C 2A						
DIODE											
D4101	A C 2A										
D5201	A C 2A										
TRANSISTOR											
Q4101	A C 1A	Q5201	B C 3A								
Q5202	B C 3A										
IC											
IC4101	B C 1A	IC4201	B C 5B								
IC4202	B C 4B	IC5001	B C 2A								
RESISTOR											
R4101	A C 2A	R4102	A C 2A	R4103	A C 1A	R4104	A C 1A	R4105	A C 1A	R4202	A C 5B
R4203	B C 4B	R4204	B C 4B	R4205	B C 4B	R4206	A C 5B	R5014	B C 2A	R5015	B C 2A
R5016	A C 1A	R5017	A C 2A	R5018	A C 2A						
COIL											
L4101	A C 1A	L4102	B C 1A	L4103	A C 1A	L4104	A C 1A	L4201	A C 4B	L4202	B C 4B
L4203	A C 5B										

4.36 PRE/REC CIRCUIT BOARD



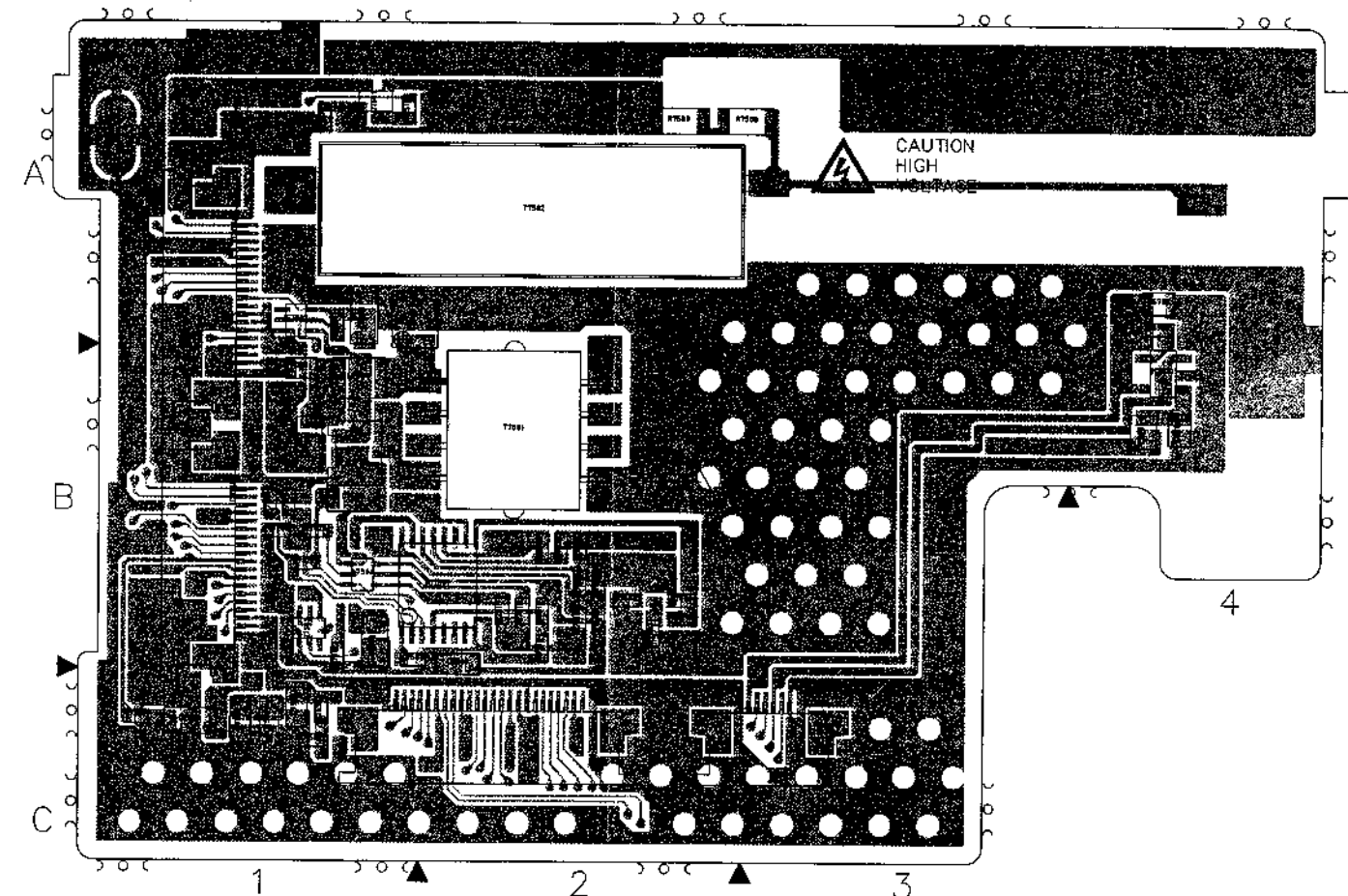
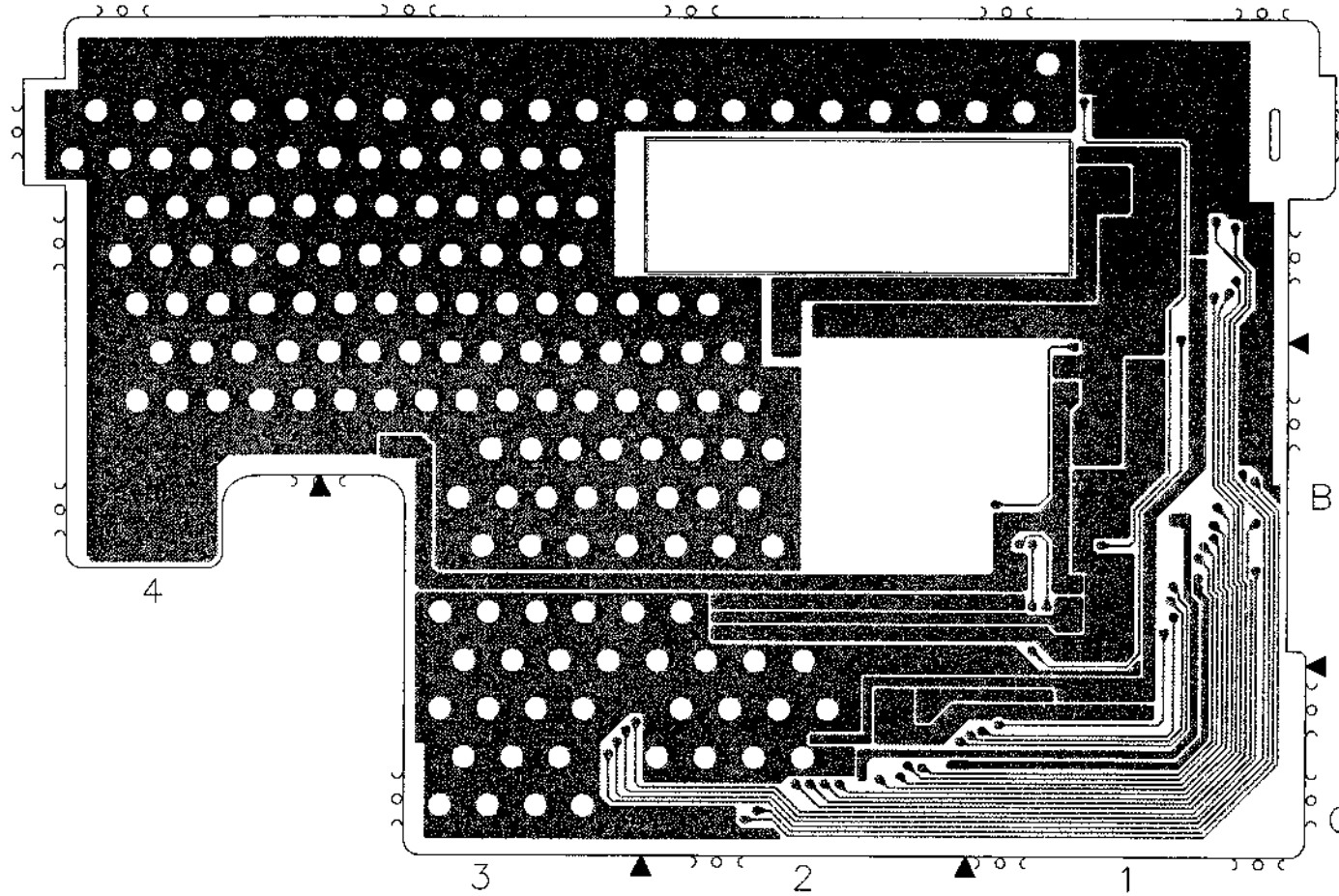
COMPONENT PARTS LOCATION GUIDE (PRE/REC)

REF.No.	LOCATION	REF.No.	LOCATION	REF.No.	LOCATION	REF.No.	LOCATION	REF.No.	LOCATION
CAPACITOR		C3514	A C 5C	C3528	A C 5C	L3504	A C 5B	R3506	A C 5C
C3501	A C 5A	C3515	A C 6B	C3529	A C 5C	TRANSISTOR		R3507	A C 5C
C3502	A C 5A	C3516	A C 6B	CONNECTOR		Q3501	A C 5C	R3508	A C 5C
C3503	A C 5A	C3517	A C 6B	CN901	A C 6C	Q3502	A C 6C	R3509	A C 5C
C3504	B C 5A	C3518	A C 6B	CN902	B C 1B	Q3503	A C 6C	R3510	A C 6B
C3505	B C 5A	C3519	A C 6A	IC		Q3504	A C 6B	R3511	A C 6B
C3506	A C 6B	C3520	A C 6A	IC3501	A C 5A	RESISTOR		R3512	A C 6B
C3507	A C 5B	C3521	A C 6A	COIL		R3501	A C 5A	R3513	A C 6B
C3508	A C 5C	C3522	A C 5A	L3501	A C 5B	R3502	B C 5A	R3514	A C 6B
C3509	A C 5B	C3523	A C 5A	L3502	A C 6B	R3503	B C 5A	R3515	A C 6A
C3510	A C 6C	C3524	A C 5A	L3503	B C 5B	R3504	B C 5A	R3516	B C 5A
C3511	A C 6C	C3525	A C 5A			R3505	A C 5B		
C3512	A C 5C	C3526	A C 6A						
C3513	A C 6B	C3527	A C 5B						

4.37 MONITOR BL CIRCUIT BOARD

FOIL SIDE (B)

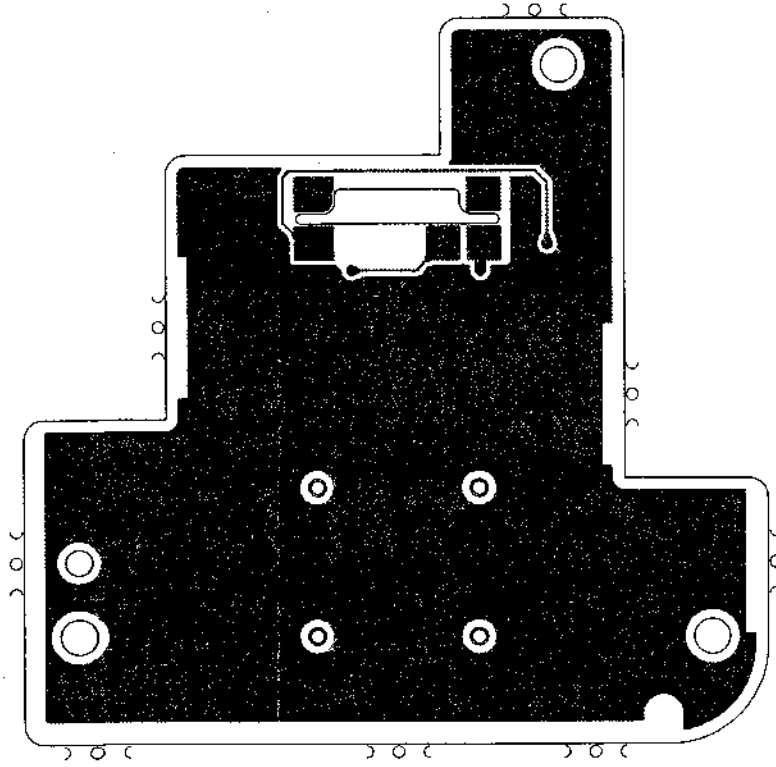
COMPONENT SIDE (A)



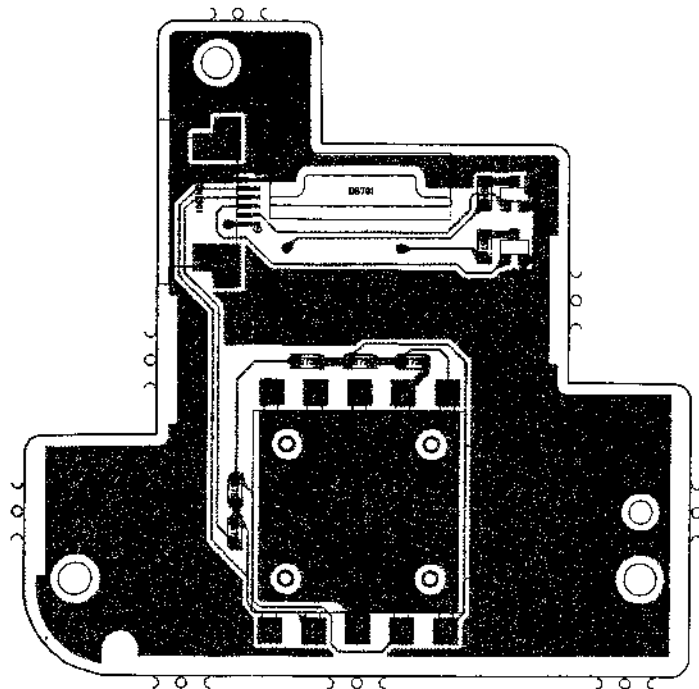
COMPONENT PARTS LOCATION GUIDE (MONITOR BL)

REF.No.	LOCATION	REF.No.	LOCATION	REF.No.	LOCATION	REF.No.	LOCATION	REF.No.	LOCATION	REF.No.	LOCATION	
CAPACITOR												
C6701	A C 4B	C7531	A C 1C	D7530	A C 1C	Q7502	A C 1B	R7505	A C 1A	R7521	A C 1B	
C6702	A C 4A	C7532	A C 1C	IC		Q7504	A C 1B	R7506	A C 2B	R7522	A C 2B	
C6703	A C 4A	C7533	A C 1C	IC6701	A C 4B	RESISTOR					R7523	A C 2B
C7501	A C 1B	C7534	A C 1C	IC7501	A C 2B	R6703	A C 4C	R7507	A C 3A	R7524	A C 2B	
C7502	A C 1B	CONNECTOR		IC7502	A C 1A	R6751	A C 4C	R7508	A C 2A	R7525	A C 1B	
C7503	A C 1A	CN1301	A C 4B	COIL		R6752	A C 4C	R7509	A C 1A	R7530	A C 1C	
C7504	A C 1A	CN7501	A C 1A	L6701	A C 4B	R6753	A C 4C	R7510	A C 1A	OTHER		
C7505	A C 1B	CN7502	A C 1B	L7501	A C 1B	R6754	A C 4C	R7511	A C 1A	F7501	A C 1B	
C7506	A C 1B	CN7503	A C 1C	TRANSISTOR		R6755	A C 4C	R7512	A C 2B	S6751	A C 4C	
C7507	A C 1B	CN7504	A C 3C	Q6701	A C 4C	R7501	A C 2B	R7513	A C 1A	T7501	A C 2B	
C7508	A C 2B	DIODE		Q6702	A C 4B	R7502	A C 2B	R7514	A C 1B	T7502	A C 2A	
C7509	A C 1B	D6701	A C 4B	Q7501	A C 1B	R7503	A C 2B	R7515	A C 2B			
C7530	A C 1C	D7501	A C 1A			R7504	A C 2B	R7516	A C 2B			
								R7517	A C 2B			
								R7518	A C 2B			
								R7519	A C 2B			
								R7520	A C 1B			

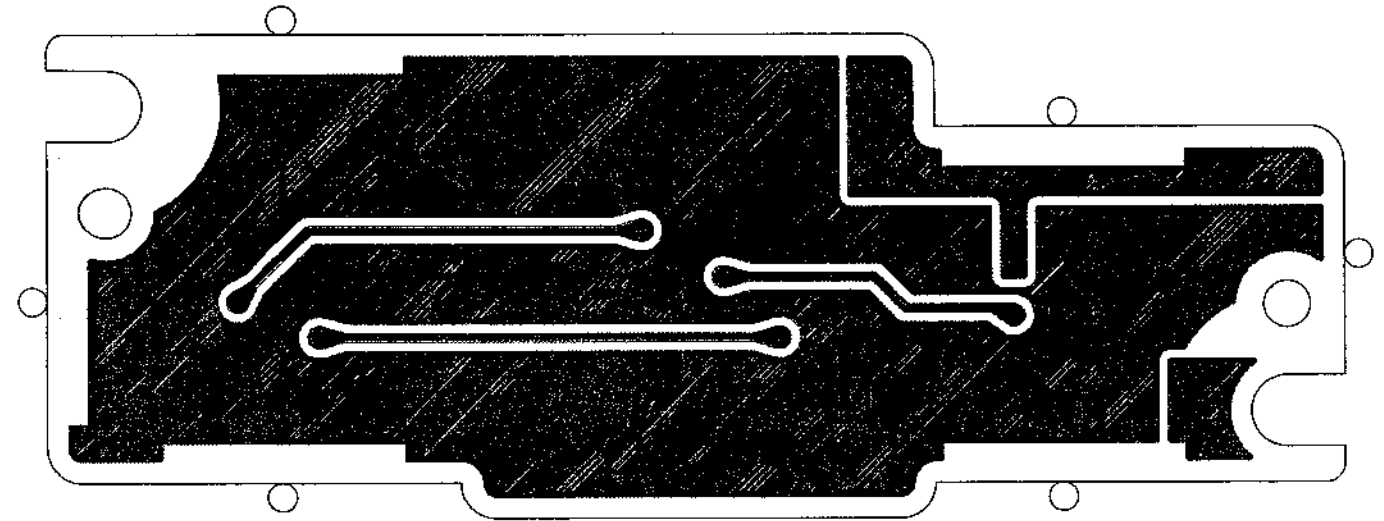
-DIAL-
FOIL SIDE (B)



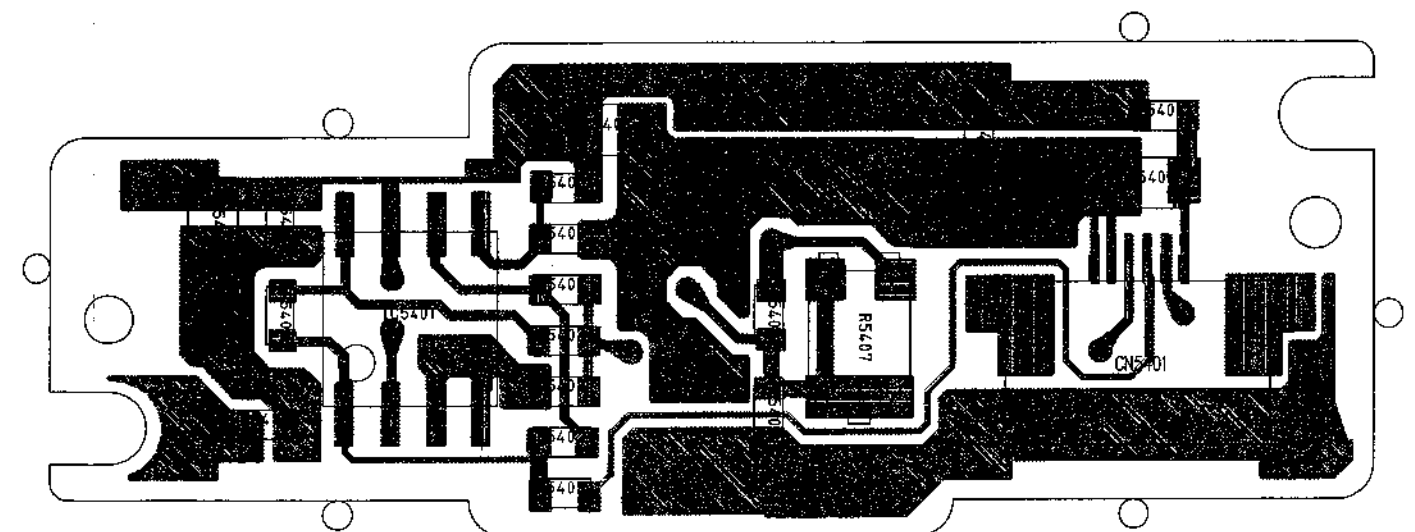
COMPONENT SIDE (A)



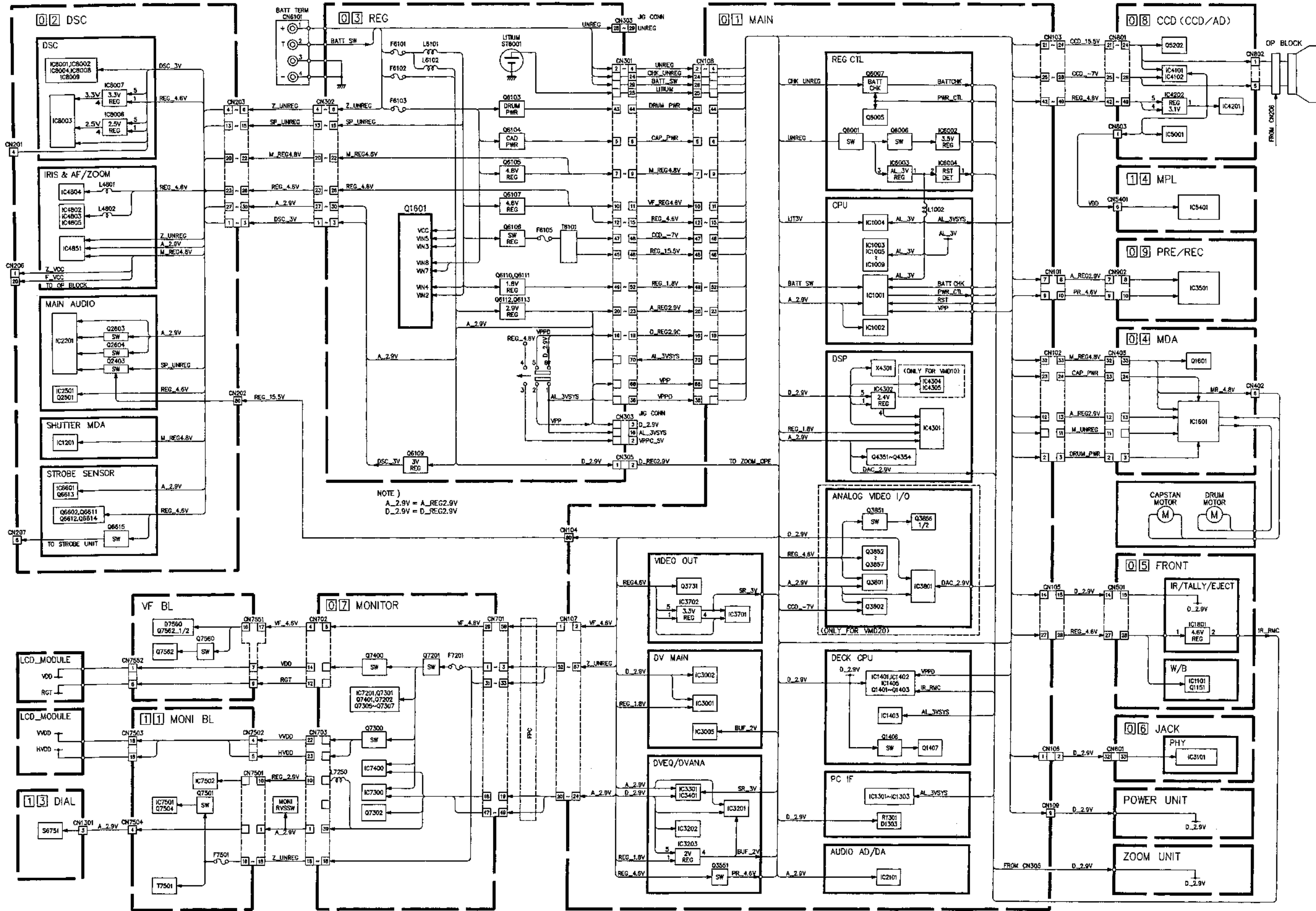
-MPL-
FOIL SIDE (B)



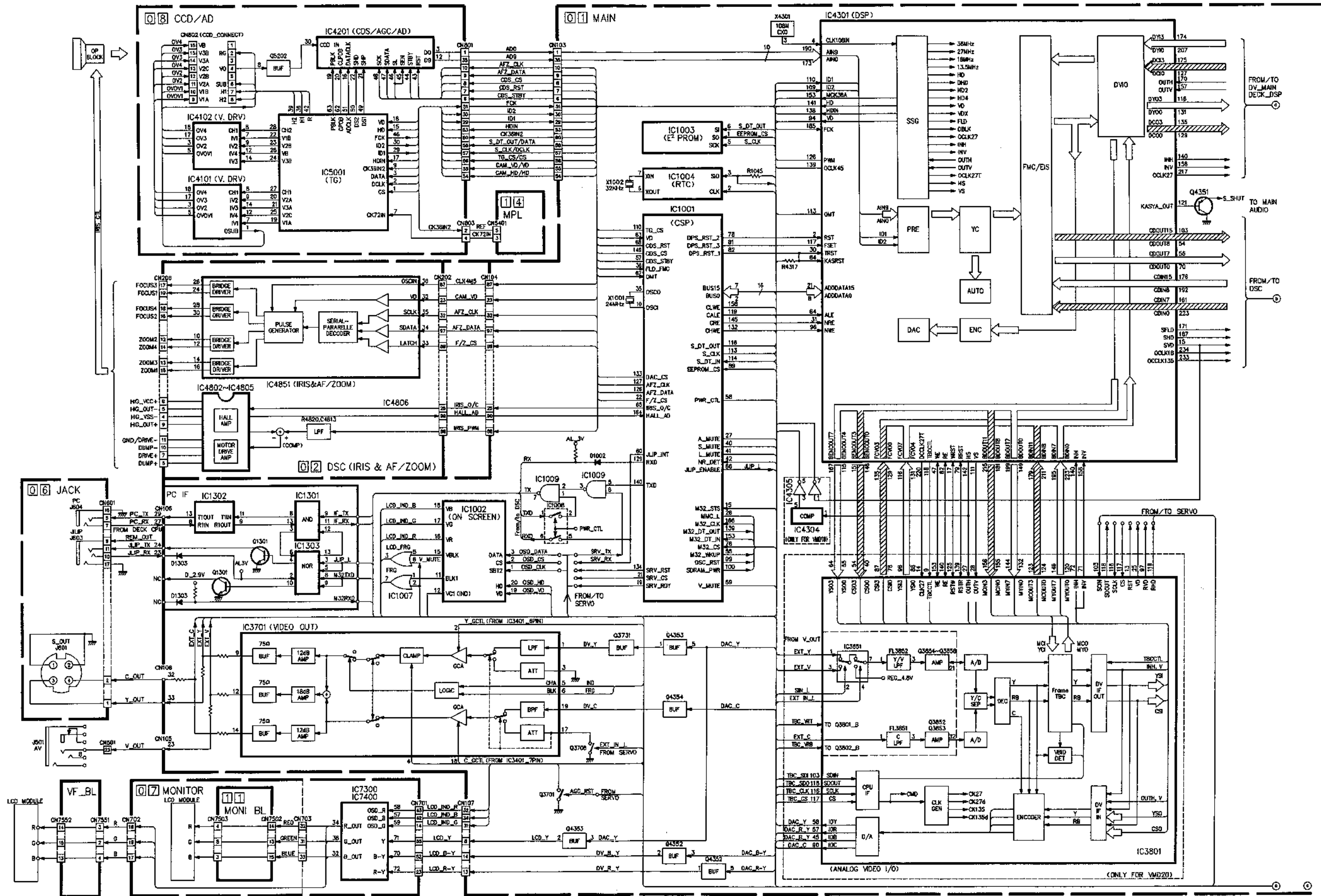
COMPONENT SIDE (A)

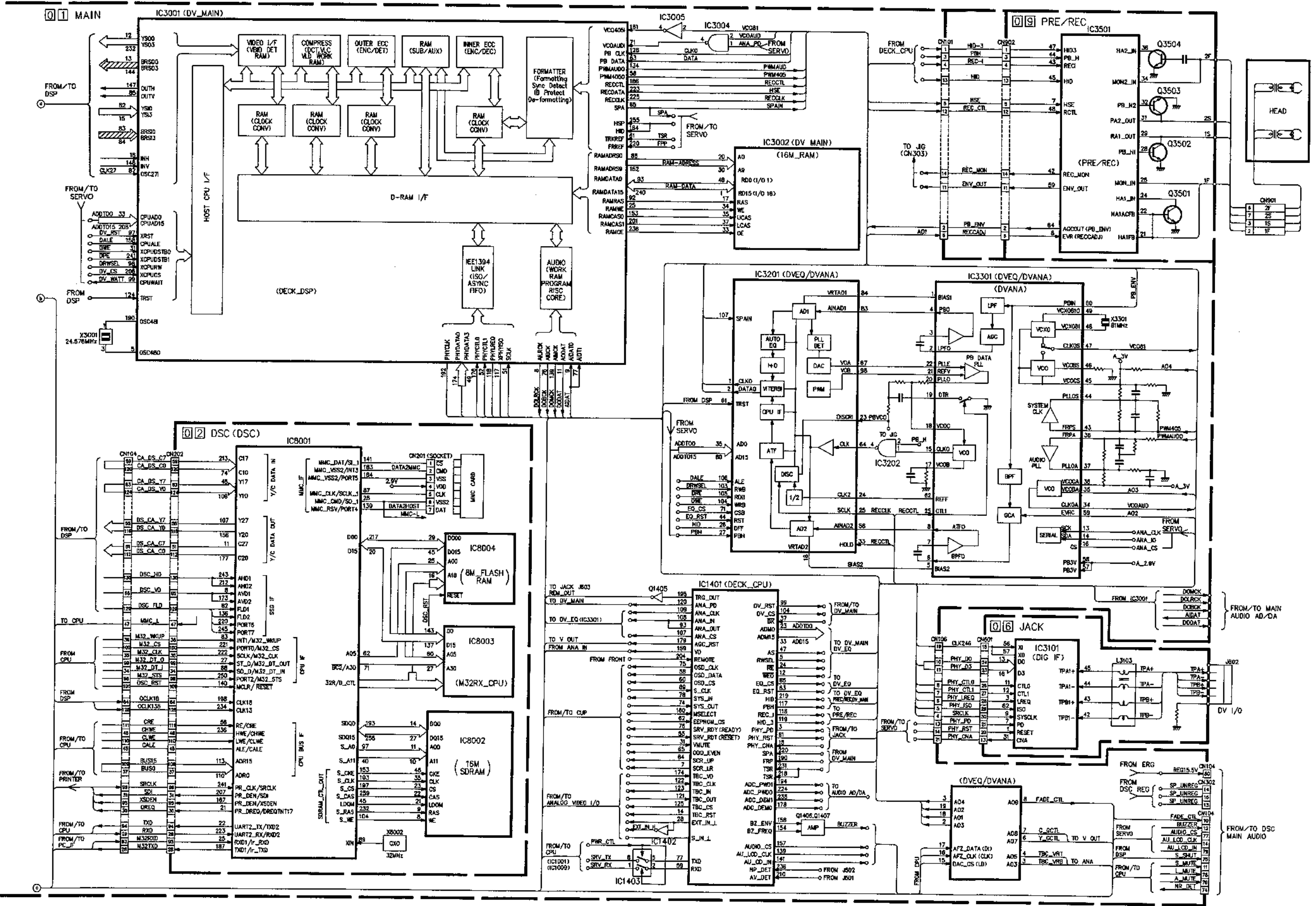


4.39 POWER SYSTEM BLOCK DIAGRAM

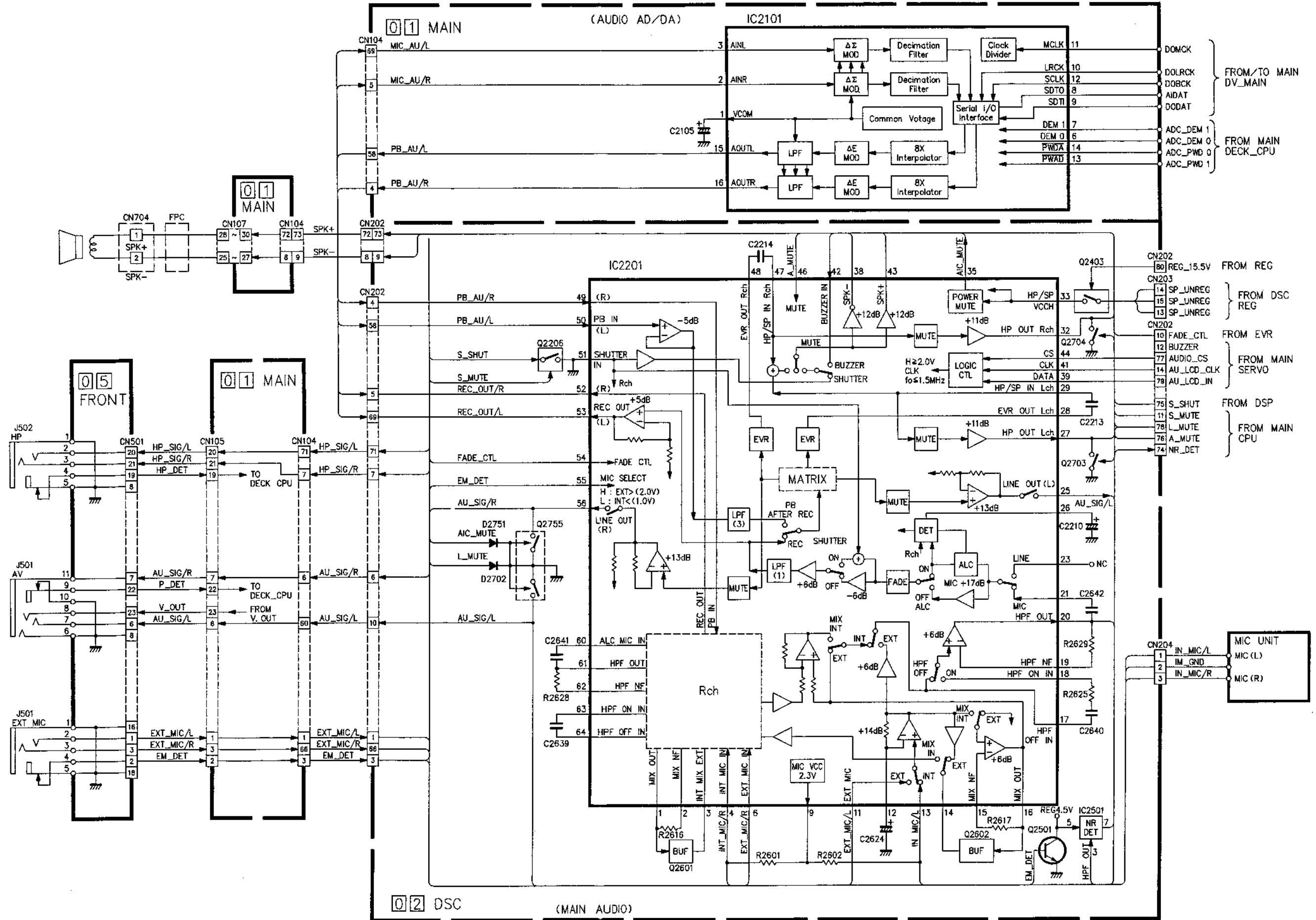


4.40 VIDEO SYSTEM BLOCK DIAGRAM

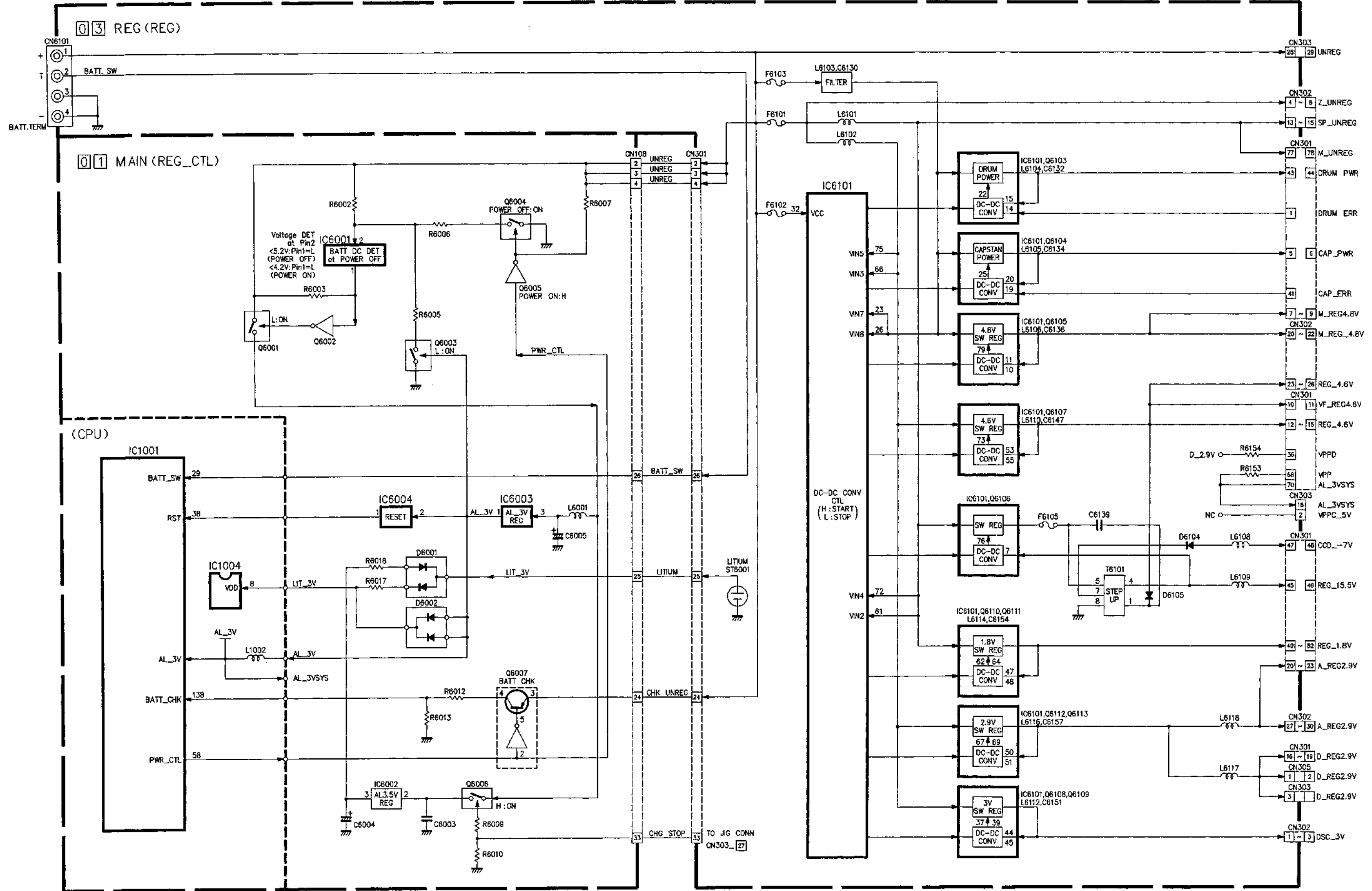




4.41 AUDIO SYSTEM BLOCK DIAGRAM



4.42 REGULATOR SYSTEM BLOCK DIAGRAM



4.43 VOLTAGE CHARTS

Note: Parts whose data cannot be obtained (for example, CSP IC, etc.) are omitted from the following chart in some cases.

<CPU>

MODE PIN NO.	REC	PLAY
IC1002		
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-
7	-	-
8	-	-
9	-	-
10	-	-
11	-	-
12	-	-
13	-	-
14	-	-
15	-	-
16	-	-
17	-	-
18	-	-
19	-	-
20	-	-
IC1003		
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-
7	-	-
8	-	-
IC1004		
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-
7	-	-
8	-	-
IC1005		
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-
7	-	-
8	-	-
IC1006		
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-
7	-	-
8	-	-
IC1007		
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-
7	-	-
8	-	-
IC1008		
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-
7	-	-
8	-	-
IC1009		
1	-	-
2	-	-
3	-	-
4	-	-

MODE PIN NO.	REC	PLAY
5	-	-
6	-	-
7	-	-
8	-	-

<DV MAIN>

MODE PIN NO.	REC	PLAY
IC3004		
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
IC3005		
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-

<DVEQ/DVANA>

MODE PIN NO.	REC	PLAY
IC3202		
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
IC3203		
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
IC3301		
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-
7	-	-
8	-	-
9	-	-
10	-	-
11	-	-
12	-	-
13	-	-
14	-	-
15	-	-
16	-	-
17	-	-
18	-	-
19	-	-
20	-	-
21	-	-
22	-	-
23	-	-
24	-	-
25	-	-
26	-	-
27	-	-
28	-	-
29	-	-
30	-	-
31	-	-
32	-	-
33	-	-
34	-	-
35	-	-
36	-	-
37	-	-

MODE PIN NO.	REC	PLAY
38	-	-
39	-	-
40	-	-
41	-	-
42	-	-
43	-	-
44	-	-
45	-	-
46	-	-
47	-	-
48	-	-
49	-	-
50	-	-
51	-	-
52	-	-
53	-	-
54	-	-
55	-	-
56	-	-
57	-	-
58	-	-
59	-	-
60	-	-
61	-	-
62	-	-
63	-	-
64	-	-
IC3401		
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-
7	-	-
8	-	-
9	-	-
10	-	-
11	-	-
12	-	-
13	-	-
14	-	-
15	-	-
16	-	-
17	-	-
18	-	-
19	-	-
20	-	-
Q3551		
E	-	-
C	-	-
B	-	-
Q3552		
E	-	-
C	-	-
B	-	-

<VIDEO OUT>

MODE PIN NO.	REC	PLAY
IC3701		
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-
7	-	-
8	-	-
9	-	-
10	-	-
11	-	-
12	-	-
13	-	-
14	-	-
15	-	-
16	-	-
17	-	-

MODE PIN NO.	REC	PLAY
18	-	-
19	-	-
20	-	-
IC3702		
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
Q3701		
E	0	0
C	0	0
B	2.9	2.9
Q3705		
E	0	0
C	4.8	4.7
B	0	0
Q3706		
E	0	0
C	0	0
B	3	2.9
Q3731		
E	-	-
C	-	-
B	-	-

<ANALOG VIDEO I/O>

MODE PIN NO.	REC	PLAY
IC4302		
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-
7	-	-
8	-	-
9	-	-
10	-	-
11	-	-
12	-	-
13	-	-
14	-	-
15	-	-
16	-	-
17	-	-
18	-	-
19	-	-
20	-	-
Q3801		
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-
7	-	-
8	-	-
9	-	-
10	-	-
11	-	-
12	-	-
13	-	-
14	-	-
15	-	-
16	-	-
17	-	-
18	-	-
19	-	-
20	-	-
Q3802		
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-
7	-	-
8	-	-
9	-	-
10	-	-
11	-	-
12	-	-
13	-	-
14	-	-
15	-	-
16	-	-
17	-	-
18	-	-
19	-	-
20	-	-
Q3851		
1	0	0
2	0	0
3	0	0
4	4.8	0
5	4.8	4.8
6	4.8	4.8
Q3853		
E	-	-
C	-	-
B	-	-
Q3854		
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-

MODE PIN NO.	REC	PLAY
Q3855		
E	-	-
C	-	-
B	-	-
Q3856		
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-
7	-	-
8	-	-
9	-	-
10	-	-
11	-	-
12	-	-
13	-	-
14	-	-
15	-	-
16	-	-
Q3857		
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-
Q3858		
E	-	-
C	-	-
B	-	-

<DSP>

MODE PIN NO.	REC	PLAY
IC4302		
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-
7	-	-
8	-	-
9	-	-
10	-	-
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47	-	-
48	-	-
49	-	-
50	-	-
51	-	-
52	-	-
53	-	-
54	-	-
55	-	-
IC4303		
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-
7	-	-
8	-	-
9	-	-
10	-	-
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48	-	-
49	-	-
50	-	-
51	-	-
52	-	-
53	-	-
54	-	-
55	-	-
IC4304		
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-
7	-	-
8	-	-
9	-	-
10	-	-
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33	-	-
34	-	-
35	-	-
36	-	-
37	-	-
38	-	-
39	-	-
40	-	-
41	-	-
42	-	-
43	-	-
44		

<STROBE SENSOR>

MODE PIN NO.	REC	PLAY
IC6601		
1	2.3	0
2	3	2.9
3	3	3
4	0	0
5	0	0
6	0	0
7	0	3
8	3	3
Q6601		
E	0	0
C	0.9	0
B	0	0
Q6602		
1	1.2	1.8
2	3.3	3.3
3	2.8	2.8
4	2.3	2.3
5	0	0
Q6611		
E	0.5	0.5
C	0.8	0
B	0	0
Q6612		
1	1.1	0
2	1.2	1
3	1.1	0
4	0	0
5	0	0
Q6613		
E	1.5	0
C	1.7	1.7
B	0	0
Q6614		
1	0	0
2	0	0
3	0	0
4	0.5	0.5
5	1.8	0
Q6615		
1	0.9	0
2	0	0
3	4.8	4.8
4	0.4	0
5	4.8	4.8

<DSC>

MODE PIN NO.	REC	PLAY
IC8004		
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-
7	-	-
8	-	-
9	-	-
10	-	-
11	-	-
12	-	-
13	-	-
14	-	-
15	-	-
16	-	-
17	-	-
18	-	-
19	-	-
20	-	-
21	-	-
22	-	-
23	-	-
24	-	-
25	-	-
26	-	-
27	-	-

MODE PIN NO.	REC	PLAY
28	-	-
29	-	-
30	-	-
31	-	-
32	-	-
33	-	-
34	-	-
35	-	-
36	-	-
37	-	-
38	-	-
39	-	-
40	-	-
41	-	-
42	-	-
43	-	-
44	-	-
45	-	-
46	-	-
47	-	-
48	-	-
IC8006		
1	1.4	0
2	0	0
3	1.4	1.2
4	2.5	2.5
5	3	0
IC8007		
1	4.8	4.8
2	0	0
3	1.3	1.2
4	3.3	3.3
5	4.8	4.8
IC8008		
1	1.8	1.4
2	1.5	0
3	0	0
4	0	0
5	3	3
6	1.4	0
7	1.4	1.3
8	3	3
IC8009		
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-
7	-	-
8	-	-

<REG>

MODE PIN NO.	REC	PLAY
IC6101		
1	0	0
2	0.8	0
3	0.8	0
4	0.9	0
5	1.1	1
6	1.2	1.5
7	1.2	4.2
8	1.3	0
9	1.2	0
10	1.2	0
11	3.1	3.2
12	1.2	0.4
13	1.1	0.4
14	0	0
15	1.1	0
16	1.1	0
17	0.7	0
18	1.1	0
19	1.2	0
20	1.1	0
21	0	0

MODE PIN NO.	REC	PLAY
22	4.8	4.9
23	6.7	6.8
24	0	0
25	5.8	5.6
26	6.7	6.7
27	1.3	1.3
28	0.5	0.5
29	0	0
30	0	0
31	0	0
32	6.7	6.7
33	0	3.9
34	0	2.1
35	0.4	0
36	0	0
37	1.8	1.8
38	0	0
39	4	0
40	6.6	6.7
41	0.6	2.9
42	0.5	3
43	0.4	2.9
44	2.3	2.3
45	1.5	0
46	0.4	0.9
47	1.8	1.8
48	1.5	0
49	0.8	0
50	2.3	2.3
51	1.5	1.5
52	1	0.9
53	2.9	2.9
54	0.5	0
55	1.5	1.5
56	1.1	1
57	0	0
58	1	0
59	0	0
60	0	0
61	6.7	6.7
62	4.7	4.7
63	0	0
64	2.2	2.3
65	0	0
66	6.7	6.7
67	3.6	3.5
68	0	0
69	0	0
70	0	0
71	0	0
72	0.4	0
73	1.8	0
74	0.8	0
75	6.7	6.7
76	2.6	2.6
77	0	0
78	6.7	6.8
79	6.6	-
80	0	0
Q6103		
1	1.8	1.8
2	1.8	1.8
3	4.9	4.8
4	6.8	6.7
5	1.8	0
6	1.8	1.8
Q6104		
1	1	1
2	1	0
3	5.6	0
4	6.8	6.7
5	0	1
6	0	1
Q6105		
1	4.9	0
2	4.9	0
3	6.6	0
4	6.7	6.7
5	4.9	4.9

MODE PIN NO.	REC	PLAY
6	4.9	5
Q6106		
1	0	0
2	0	0
3	2.6	2.6
4	6.7	6.7
5	0	0
6	0	0
Q6107		
1	4.8	4.8
2	4.8	4.8
3	1.8	0
4	6.7	6.7
5	4.8	4.8
6	4.8	4.8
Q6108		
1	4.9	0
2	4.9	3
3	6.7	4
4	6.8	6.7
5	5	3
6	4.9	3
Q6110		
1	1.8	0
2	0	1.8
3	4.7	0
4	6.7	6.7
5	1.8	1.8
6	0	1.8
Q6109		
G	0	1.8
D	3	0
S	0	0
Q6112		
1	3.1	0
2	3.1	3.1
3	0	0
4	6.7	6.7
5	3.1	3.1
6	3.1	3.1
Q6113		
G	1.6	1.5
D	3.1	3.1
S	0	0

<MDA>

MODE PIN NO.	REC	PLAY
IC1601		
1	0	0
2	0.9	0
3	0.9	0.9
4	0	0
5	0.9	0.9
6	0	0
7	0	0
8	0	0
9	0	0
10	0	0
11	0	0
12	0	0
13	0	0
14	5	5
15	0	0
16	0.4	0
17	0	0
18	0.5	0
19	0	0
20	0.5	0
21	0	0
22	0	0
23	0	0
24	6.7	6.7
25	1.5	1.5
26	0	-
27	1.5	1.5
28	1.5	1.5

MODE PIN NO.	REC	PLAY
29	0	0
30	1.5	0
31	0	1.5
32	1.5	0
33	1.5	1.5
34	1.5	1.5
35	3	3
36	3	3
37	0	0
38	0.7	0.7
39	0.7	0
40	1.2	1.2
41	0	0
42	0	0.4
43	3	0
44	0	0
45	0	0
46	0	0
47	3	0
48	0	3
49	0	0
50	0	0
51	0	0
52	0	0
53	0	0
54	0.4	0
55	0.7	0
56	0.7	0.7
57	0	1
58	0.6	0.6
59	0	0
60	1	1.1
61	2.7	2.7
62	1.2	0
63	1.5	0
64	0	1.5
65	1.5	1.5
66	0	0
67	1.5	1.5
68	0	0.6
69	0	0
70	0.9	0.9
71	0.8	0.9
72	0.9	0.8
73	0.9	0
74	1.2	1.1
75	0.4	0.4
76	0	0
77	6.9	6.9
78	0	1.8
79	1.8	0
80	0	0
Q1601		
1	0	0
2	0	0
3	0	4.9
4	0	0
5	0	4.9

<W/B>

MODE PIN NO.	REC	PLAY
IC1101		
1	0	2.4
2	2.4	2.4
3	2.4	0
4	0	0
5	2.4	0
6	2.4	2.3
7	1.5	0
8	4.8	4.8
Q1151		
E	0	0
C	4.3	4.3
B	-	-

<I/R/TALLY/EJECT>

MODE PIN NO.	REC	PLAY
IC1801		
1	4.5	4.8
2	4	0
3	0	0
4	0	0
Q1801		
E	0	0
C	0	0
B	0	0

<JACK>

MODE PIN NO.	REC	PLAY
IC3751		
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-

<PHY>

MODE PIN NO.	REC	PLAY
IC3101		
1	0.6	0
2	0	0
3	0	0
4	2.9	2.9
5	0.4	2.9
6	2.9	2.9
7	0.4	1.3
8	0	0
9	1.2	1.3
10	0	0
11	0.4	1.3
12	0.4	1.3
13	0.4	1.3
14	0.5	1.4
15	0.5	1.4
16	0.4	1.4
17	0	0
18	0	0
19	0.4	0.4
20	0.4	0.4
21	0	0
22	0.4	0.4
23	0	0
24	0	0.4
25	0	0
26	0	0
27	0	0
28	0	0
29	0	0

MODE PIN NO.	REC	PLAY
30	0	0
31	0	0
32	0	0
33	0	0
34	0	0
35	0.6	0
36	0.6	0
37	0	0
38	0	0
39	0.7	0
40	0.7	0
41	0	0
42	0	0
43	0	0
44	1.8	0
45	1.9	0
46	1.9	0
47	1.8	0
48	1.9	0
49	0	0
50	0	0
51	2.9	0.4
52	0	0
53	0	0
54	3	0
55	3	0
56	1.4	0
57	1.5	0
58	3	0
59	0	0
60	0.6	0
61	0	0
62	0.6	0
63	0	0
64	0	0

<MONITOR>

MODE PIN NO.	REC	PLAY
IC7201		
1	1	1
2	6.7	6.7
3	6.7	6.7
4	0	0
5	0	1.2
IC7210		
1	2.9	2.9
2	1.3	1.8
3	2.9	2.9
4	0	0
5	0	0
6	0	0
7	0	0
8	3	2.9
IC7300		
1	0	0
2	3	2.9
3	-	-
4	3	2.9
5	3	3
6	0	0
7	0	0
8	0	0
9	0	0
10	0	0
11	0	0
12	0	0
13	0	0
14	3	2.8
15	2.9	2.9
16	1.8	1.7
17	0.7	0.7
18	0	0
19	3	2.9
20	3	2.9
21	1.4	1.4
22	1.5	1.5

MODE PIN NO.	REC	PLAY
23	0	0
24	0	0
25	0	2.9
26	0	0
27	0	0
28	0	0
29	0	0
30	5.4	5.4
31	1.2	0
32	0	0
33	1.3	1.2
34	0	0
35	1.3	0.9
36	0	0
37	11.8	0
38	1.1	-
39	0	0
40	0	0
41	11.8	11.8
42	0	0
43	0	0
44	0	0
45	0	0
46	0	0
47	0	0
48	0	0
49	0	0
50	0	0
51	0	0
52	0	0
53	0	0
54	0	0
55	3	2.9
56	0	0
57	0	0
58	0	0
59	0	0
60	0	0
61	0	0
62	0	0
63	3	2.9
64	0	0
65	0	0
66	0	0
67	0	0
68	0	0
69	-	-
70	0	0
71	0	0
72	0	0
IC7400		
1	0	0
2	2.3	2.4
3	1.7	1.7
4	0.4	0.4
5	0.4	0.4
6	2.9	2.9
7	1.3	1.3
8	1.1	1.1
9	0	0
10	0	0
11	0	0
12	0	0
13	2.9	2.8
14	2.9	2.9
15	2.9	2.9
16	2	1.8
17	0.7	0.7
18	0	0
19	3	2.9
20	3	0
21	1.4	0
22	1.5	1.4
23	0	0
24	1.6	1.6
25	2.9	2.9
26	0	0
27	0	0
28	0	-

MODE PIN NO.	REC	PLAY
29	0	0
30	5.8	5.9
31	-	1.7
32	0	5.9
33	0	1.7
34	0	5.9
35	0	1.7
36	0	5.9
37	11.8	11.8
38	1	2.2
39	0	0
40	0	0
41	11.8	11.8
42	0	5.8
43	0	0
44	1.5	1.4
45	3	3
46	0	0
47	0	0
48	0	0
49	1.3	1.3
50	3	2.9
51	1.3	1.3
52	1.3	1.3
53	0	0
54	0	0
55	3	2.9
56	0	0
57	0	0
58	0	0
59	0	0
60	0	0
61	1.5	1.5
62	1.5	1.5
63	3	2.9
64	0	0
65	3	2.9
66	3	3
67	0	0
68	1.5	1.5
69	1.2	0
70	0	2.1
71	0	0
72	0	0
Q7201		
E	0	6.7
C	0	6.7
B	0	6
Q7202		
E	0	0
C	6.7	6.7
B	-0.5	0
Q7203		
E	0	0
C	0	0
B	3	3
Q7300		
E	11.8	11.8
C	0	0
B	11.8	11.8
Q7301		
E	0	0
C	0	0
B	0	2.9
Q7302		
E	0	1.2
C	0	0
B	0	0
Q7305		
E	0	0
C	0	11.8
B	0	5.4
Q7306		
E	0	6
C	0	0
B	0	0

MODE PIN NO.	REC	PLAY
Q7307		
E	0	0
C	0	11.8
B	0.7	0.6
Q7308		
E	0	5.4
C	0	0
B	0	4.9
Q7400		
E	0	0
B	0	0
C	11.8	11.8
Q7401		
E	0	0
C	0	11.8
B	0	0
Q7402		
E	0	1.2
C	0	0
B	0	0.6

<CCD/AD>

MODE PIN NO.	REC	PLAY
IC4101		
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-
7	-	-
8	-	-
9	-	-
10	-	-
11	-	-
12	-	-
13	-	-
14	-	-
15	-	-
16	-	-
17	-	-
18	-	-
19	-	-
20	-	-
IC4102		
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-
7	-	-
8	-	-
9	-	-
10	-	-
11	-	-
12	-	-
13	-	-
14	-	-
15	-	-
16	-	-
17	-	-
18	-	-
19	-	-
20	-	-
IC4201		
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-
7	-	-
8	-	-
9	-	-
10	-	-

SECTION 5 AC POWER ADAPTER

5.1 CIRCUIT BOARD

MODE PIN NO.	REC	PLAY
11	-	-
12	-	-
13	-	-
14	-	-
15	-	-
16	-	-
17	-	-
18	-	-
19	-	-
20	-	-
21	-	-
22	-	-
23	-	-
24	-	-
25	-	-
26	-	-
27	-	-
28	-	-
29	-	-
30	-	-
31	-	-
32	-	-
33	-	-
34	-	-
35	-	-
36	-	-
37	-	-
38	-	-
39	-	-
40	-	-
41	-	-
42	-	-
43	-	-
44	-	-
45	-	-
46	-	-
47	-	-
48	-	-
49	-	-
50	-	-
51	-	-
52	-	-
53	-	-
54	-	-
55	-	-
56	-	-
57	-	-
58	-	-
59	-	-
60	-	-
61	-	-
62	-	-
63	-	-
64	-	-
Q5201	-	-
E	-	-
C	-	-
B	-	-
IC4202	-	-
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
IC5001	-	-
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-
7	-	-
8	-	-
9	-	-
10	-	-
11	-	-
12	-	-
13	-	-
14	-	-
15	-	-
16	-	-
17	-	-
18	-	-
19	-	-
20	-	-
21	-	-
22	-	-
23	-	-
24	-	-
25	-	-
26	-	-
27	-	-
28	-	-
29	-	-
30	-	-
31	-	-
32	-	-
33	-	-
34	-	-

MODE PIN NO.	REC	PLAY
35	-	-
36	-	-
37	-	-
38	-	-
39	-	-
40	-	-
41	-	-
42	-	-
43	-	-
44	-	-
45	-	-
46	-	-
47	-	-
48	-	-
49	-	-
50	-	-
51	-	-
52	-	-
53	-	-
54	-	-
55	-	-
56	-	-
57	-	-
58	-	-
59	-	-
60	-	-
61	-	-
62	-	-
63	-	-
64	-	-
Q5201	-	-
E	-	-
C	-	-
B	-	-

<PRE/REC>

MODE PIN NO.	REC	PLAY
IC3501	-	-
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-
7	-	-
8	-	-
9	-	-
10	-	-
11	-	-
12	-	-
13	-	-
14	-	-
15	-	-
16	-	-
17	-	-
18	-	-
19	-	-
20	-	-
21	-	-
22	-	-
23	-	-
24	-	-
25	-	-
26	-	-
27	-	-
28	-	-
29	-	-
30	-	-
31	-	-
32	-	-
33	-	-
34	-	-
35	-	-
36	-	-
37	-	-
38	-	-

MODE PIN NO.	REC	PLAY
39	-	-
40	-	-
41	-	-
42	-	-
43	-	-
44	-	-
45	-	-
46	-	-
47	-	-
48	-	-
49	-	-
50	-	-
51	-	-
52	-	-
53	-	-
54	-	-
55	-	-
56	-	-
57	-	-
58	-	-
59	-	-
60	-	-
61	-	-
62	-	-
63	-	-
64	-	-
Q3501	-	-
E	-	-
C	-	-
B	-	-
Q3502	-	-
E	-	-
C	-	-
B	-	-
Q3503	-	-
E	-	-
C	-	-
B	-	-
Q3504	-	-
E	-	-
C	-	-
B	-	-

<MPL>

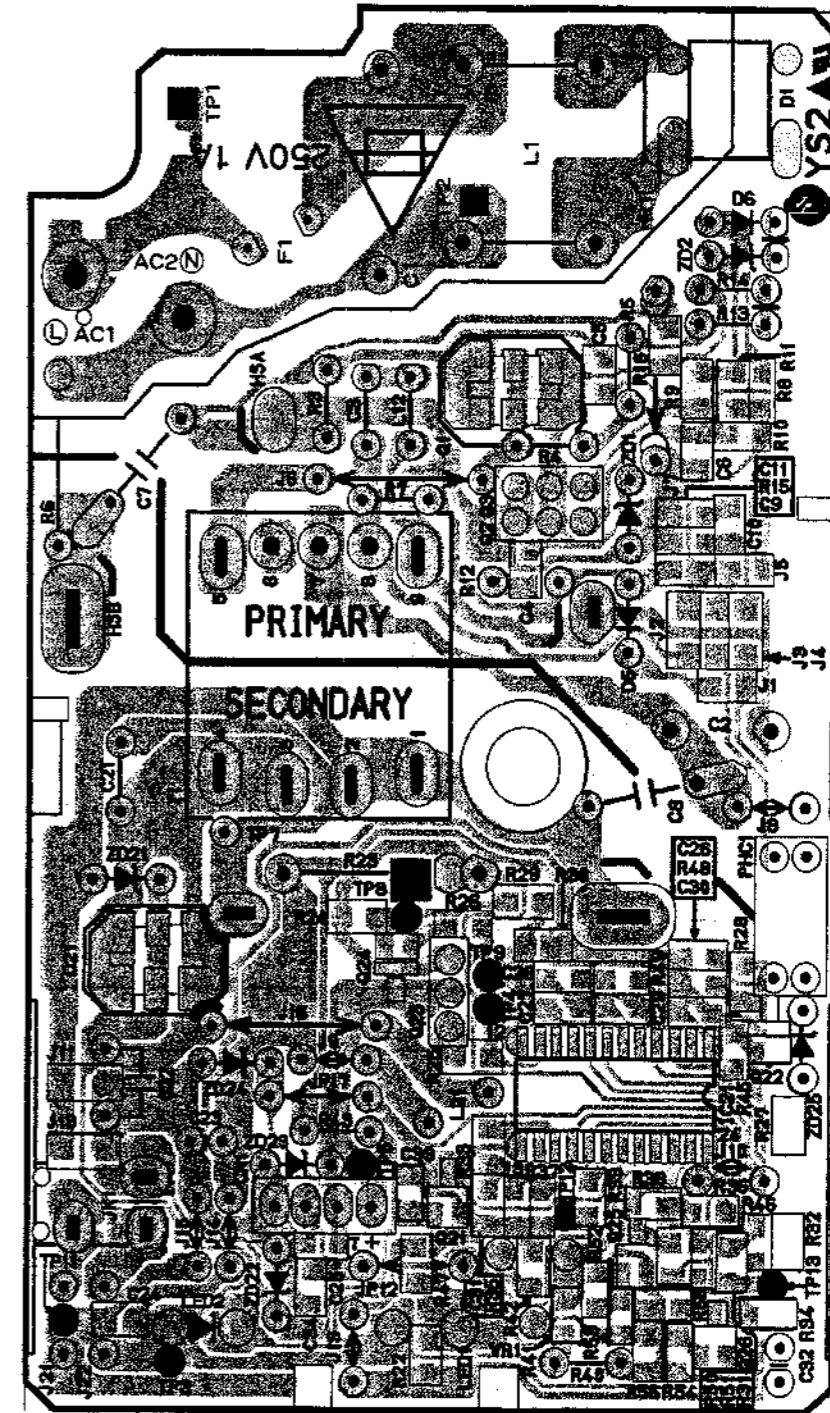
MODE PIN NO.	REC	PLAY
IC5401	-	-
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	-	-
7	-	-
8	-	-

<MONITOR BL>

MODE PIN NO.	EE
IC6701	-
1	6.7
2	0
3	3
4	1.3
5	5.1
IC7501	-
1	1
2	1
3	0
4	0
5	0
6	0.9
7	1.4
8	0
9	6.7
10	2.1
11	0
12	1.9
13	1.2
14	1.2
15	0
16	0
IC7502	-
1	0
2	2.1
3	0
4	0
5	2.9
Q6701	-
E	0
C	0
B	3
Q6702	-
E	0
C	0
B	0
Q7501	-
1	0
2	2.9
3	0
4	0
5	0
6	0
Q7502	-
G	0.8
D	6.6
S	0
Q7504	-
1	1.9
2	1.9
3	1.3
4	0
5	1.4
6	0.8


<DIAL>

MODE PIN NO.	EE
Q6701	-
E	0
C	0
B	3
Q6702	-
E	0
C	0
B	0



5.2 SCHEMATIC DIAGRAM

NOTE: When ordering parts, be sure to order according to the Part Number indicated in the Parts List.

Safety precautions
The components identified by the symbol  are critical for safety. For continued safety, replace safety critical components only with manufacturer's recommended parts.

