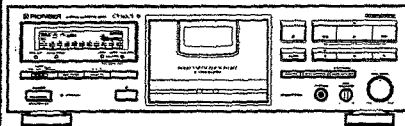


# Service Manual

**PIONEER**  
The Art of Entertainment



• The above illustration shows CT-S630S.

ORDER NO.  
RRV1084

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STEREO CASSETTE DECK

# CT-S630S

## CT-S630S-G

## CT-S530

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model			Power Requirement	The voltage can be converted by the following method.
	CT-S630S	CT-S630S-G	CT-S530		
HEM	○	○	○	AC220 - 230V	AC230 - 240V, *
HB	○	-	-	AC230 - 240V	AC220 - 230V, *

\* : Alter the wiring of the Power-supply block at the primary winding of power transformer referring to the "Line Voltage Selection" described in Service Manual.

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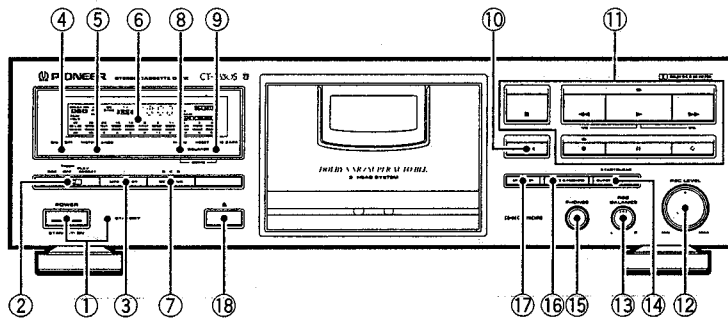
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## CHAPTER 1

### 1.1 PANEL FACILITIES



• The above illustration shows CT-S630S.

① **POWER STANDBY/ON switch and STANDBY indicator**

The POWER switch activates the secondary transformer only. Even when the switch is in the STANDBY position, there will be a power flow to the deck's circuits as long as the power cord is connected to a power outlet.

② **TIMER mode/repeat play switch (TIMER REC/OFF/PLAY-REPEAT)**

③ **MPX FILTER button**

④ **Display off button (DISP OFF)**

Press to select the function display on or off.

⑤ **Level meter range selector button (METER RANGE)**


Press to select wide or expanded range on the level meter.

⑥ **Function display**

⑦ **Dolby\* NR button (DOLBY NR OFF/B/C/S (CT-S630S))  
Dolby\* NR button (DOLBY OFF/B/C (CT-S530))**

\*

• *Dolby noise reduction and HX Pro headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX Pro originated by Bang & Olufsen.*

• *"DOLBY", the double-D symbol  and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.*

⑧ **Tape counter mode button (COUNTER MODE)**

⑨ **Counter reset/tape capacity selector button (COUNTER RESET/TAPE CAPA)**

⑩ **FLEX button**

⑪ **Operation buttons**

◀/MS : Rewind/music search

■ : Stop

▶ : When pressed during stop, begins playback.

▶▶/MS : Fast forward/music search

● : Recording

|| : When pressed during playback or recording, pauses playback or recording. When pressed during pause, resumes play or starts recording.

○ : Recording mute

⑫ **Recording level control (REC LEVEL)**

⑬ **Recording balance control (REC BALANCE)**

⑭ **SUPER AUTO BLE START/CLEAR button**

⑮ **Headphones jack (PHONES)**

⑯ **CD · DECK SYNCHRO recording button (CD SYNCHRO)**

⑰ **Monitor selector button (MONITOR)**

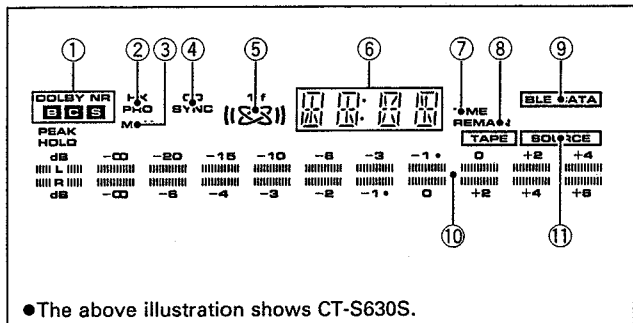
Used to monitor the source sound or the actual recorded sound source during recording.

• When the unit is set to record or playback mode, the TAPE indicator lights up and the monitor mode is automatically selected.

⑱ **Eject button (▲)**

• If the tape is moving (recording, playback, tape winding, etc.), press the stop (■) button before pressing this button.

**FUNCTION DISPLAY**



•The above illustration shows CT-S630S.

- ① **DOLBY NR B/C/S indicator (CT-S630S)**  
DOLBY NR B/C indicator (CT-S530)
- ② **DOLBY HX PRO indicator**
- ③ **MPX indicator**  
This indicator lights when the MPX filter button is set to ON (only when DOLBY NR is also set to ON).
- ④ **CD SYNC indicator**  
Lights when synchro recording from a CD player is being carried out.
- ⑤ **FLEX (1/f) indicator (1/f  $\Sigma$ )**  
 $\Sigma$  indicator lights when the FLEX button is pressed.

- ⑥ **Counter indicator**  
Normally the tape or time counter is displayed as a number (see "COUNTER MODES").  
The indicator flashes for approximately 4 seconds when the power is connected to the power supply.  
During AUTO BLE tuning, indicates STRT, BIAS, LEVL, EQ, TUNE or Err.
- ⑦ **TIME counter indicator**  
Lights up in the time counter mode.
- ⑧ **REMAIN counter indicator**  
Lights up in the remaining time counter mode.
- ⑨ **BLE DATA indicator**
- ⑩ **Level meter with peak hold function**  
The  $\square$  beside the -1 dB mark indicates the Dolby NR system's reference level.  
**Meter range:**  
Wide mode: -20 dB to +4 dB  
Expand mode: -6 dB to +6 dB
- ⑪ **Monitor source indicators**  
**TAPE:** Recorded sound  
**SOURCE:** Original source sound

**1.2 SPECIFICATIONS**

System.....	4-track, 2-channel stereo
Heads. Combined "Hard Permalloy" recording/playback head × 1	"Ferrite" erasing head × 1
Motor .....	DC servo capstan motor × 1
	DC reel motor × 1
Wow and Flutter .....	No more than 0.05% (WRMS, JIS)
	No more than ±0.14% (DIN)
Fast Winding Time.....	Approx. 90 seconds (C-60 tape)
Frequency Response (at -20 dB recording level)	
TYPE IV (Metal) tape.....	20 to 21,000 Hz (±6 dB)
TYPE II (CrO <sub>2</sub> ) Tape.....	20 to 19,000 Hz (±6 dB)
TYPE I (Normal) Tape.....	20 to 19,000 Hz (±6 dB)
Signal-to-Noise Ratio (Dolby NR OFF).....	More than 59 dB
Noise Reduction Effect	
Dolby B-type NR ON.....	More than 10 dB (at 5 kHz)
Dolby C-type NR ON.....	More than 19 dB (at 5 kHz)
Dolby S-type NR ON.....	More than 22 dB (at 5 kHz)
Harmonic Distortion.....	No more than 0.6%
	(at -4 dB: 160 nwb/m)
Input (Sensitivity)	
LINE (INPUT).....	100 mV (Input impedance 72 kΩ)
Output (Reference level)	
LINE (OUTPUT).....	0.5 V (Output impedance 2.2 kΩ)
Headphones (PHONES) .....	1.41 mW (Load impedance 32 Ω)

**Miscellaneous**

Power requirements	
U.K., model.....	AC 230—240 Volts~, 50/60 Hz
European model.....	AC 220—230 Volts~, 50/60 Hz
Power consumption	
CT-S630S .....	25 W
CT-S530 .....	21 W
Dimensions .....	420 (W)×125 (H)×280 (D) mm
Weight.....	4.1 kg (European model)
	4.4 kg (U.K. model only)

**Subfunctions**

- DOLBY B-type, C-type and S-type NR Systems (CT-S630S)
- DOLBY B-type and C-type NR Systems (CT-S530)
- DOLBY HX PRO system
- MPX FILTER
- Headphones jack
- 4-digit electronic tape/time/remain counter
- Music search up to ±15 selections
- Automatic space recording mute
- SUPER AUTO BLE tuning system
- FL level meter 9 +1 segments (with peak hold)
- $\square$  System remote control available
- CD · DECK SYNCHRO function
- Timer Recording/Playback (Automatic repeat playback ON)
- Auto tape selector
- FLEX system
- Last memory

**Accessories**

Operating instructions .....	1
Connection cord with pin plugs .....	2
$\square$ Remote control cord.....	1
CD · DECK SYNCHRO control cord .....	1

**NOTE:**

Specifications and design subject to possible modifications without notice, due to improvements.

## 1.3 IC INFORMATION

• The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

### 1. PD4443A (IC701) System Control (CPU)

#### ● Pin Function

Pin No.	Pin Name	Functions
1	P04	FL segment output (*1) A/D 5-bit level scan output (*2) Key scan output (*3)
2	P03	
3	P02	
4	P01	
5	XPOFF	POWER OFF detection $\bar{L}$ (L: EDGE)
6	FIN	Level scan input for the 1/f high frequency level
7	POWER	POWER KEY input detection $\bar{L}$ (L: EDGE)
8	SENT	TAKE-UP side reel sense input. For the auto stop electronic counter
9	SENS	Supply side reel sense input. For measuring the remain counter.
10	XREM	Remote control unit input
11	LMET	Lch level scan input
12	RMET	Rch level scan input
13	KEY0	4-bit key scan input (L: EDGE)
14	KEY1	
15	KEY2	
16	KEY3	
17	BIAS	Bias oscillation drive. H: ON
18	SYNC	CD-SYNCHRO code in detection. L: IN
19	FRCD	CONT to CD (for CD-SYNCHRO) INPUT
20	MTRS	Meter amplifier gain selection.
21	DAT0	Data input from the memory IC (NM93C46N).
22	DAT1	Data output to NM93C46N and LC7570.
23	SCK	Clock for communicating with NM93C46N and LC7570
24	CS	Chip select for communicating with NM93C46N
25	WR	Data latch for communicating with LC7570
26	XBLK	L CONT of all outputs of LC7570
27	XLMU	LINE MUTE. L: ON
28	XRMU	REC MUTE. L: ON
29	OSC	TEST signal output for the auto BLE (400 Hz, 3 kHz, 15 kHz)
30	—	Clock input for the CPU (4.19 MHz)
31	—	
32	GND	To GNDC

Pin No.	Pin Name	Function
33	—	To GNDC
34	—	Non connection
35	MC2	Motor CONTs for the door and reel
36	MC0	
37	RMPL	Reel motor PLAY torque selection. H: ON
38	CPM	Mechanism capstan motor driving. H: ON
39	XRESET	For resetting the CPU. L: Resetting
40	G01	Output for the FL grid
41	G02	
42	G03	
43	G04	
44	G05	
45	G06	
46	G07	
47	G08	
48	G09	
49	G10	
50	STBY	LED driving for the POWER STANDBY. H: ON
51	SDLA	Solenoid driving for the mechanism. H: ON
52	MC1	Motor CONTs for the door and reel
53	NRS0	1 bit of the 2-bit Dolby NR selection
54	P12	FL segment (*1)
55	P11	
56	VLOAD	For FL. V <sub>F</sub>
57	VPRE	CPU internal FL output buffer power supply (Approx. -4V)
58	P10	FL segment output (*1)
59	P09	
60	P08	FL segment output (*1) Key scan output (*3)
61	P07	
62	P06	
63	P05	FL segment output (*1) Level scan (*2) Key scan output (*3)
64	Vcc	To Vcc +5V

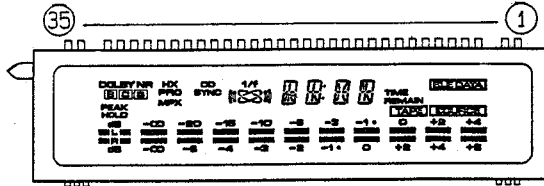
\*1: To the FL

\*2: To the anodes D541 to D545

\*3: To each key and SW

# 1.4 FL INFORMATION

● V1501(RAW1133)



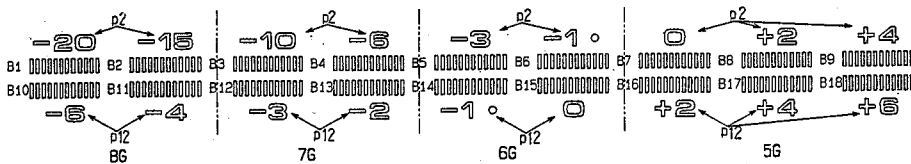
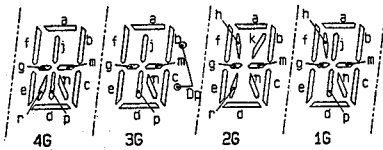
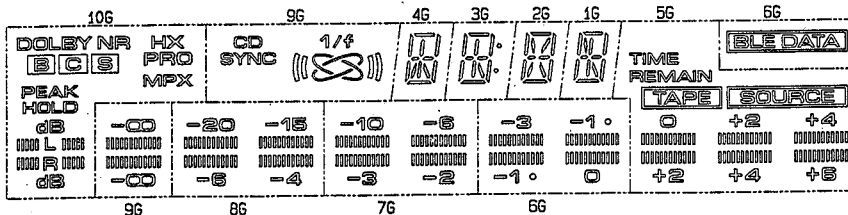
### Pin Connection

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Assignment	F	F	NP	NC	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	NC	P12	P13	NC	P11

Pin No.	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
Assignment	NC	P10	NC	P9	P8	P7	P6	P5	NC	P4	P3	P2	P1	NP	F	F

F:Filament G1~G10:Grid P1~P13:Anode NP:No pin NC:No connection

### Grid Assignment



### Anode Connection

	G10	G9	G8	G7	G6	G5	G4	G3	G2	G1
P1			B1	B3	B5	B7	a	a	a	a
P2	HOLD	CD SYNC	B10	B12	B14	B16	b	b	b	b
P3	PEAK		B2	B4	B6	B8	f	f	f	f
P4	HX PRO	1/4	B11	B13	B15	B17	g	g	g	g
P5	MPX	( )	-8 -4	-3 -2	-1 0	0 +2 +4 +6	m	m	m	m
P6		( )	-20 -15	-10 -8	-3 -1 0	0 +2 +4	c	c	c	c
P7		∩				B9	e	e	e	e
P8		∪				B18	d	d	d	d
P9	DOLBY NR	∩				REMAN	j, p	j, p	h	j, p
P10		∩				TIME	r	Dp	n	h
P11						SOURCE	n	n	r, k	n
P12						TYPE				
P13						BLE DATA				

## 1.5 ADJUSTMENTS

### 1. MECHANICAL ADJUSTMENT

1. Tape Speed Adjustment			
Mode	Test tape	Adjustment position	Specification rating (playback frequency)
PLAY	Play the STD-301 tape (3kHz)	Tape speed adjustment hole	3000Hz $\pm$ 5Hz

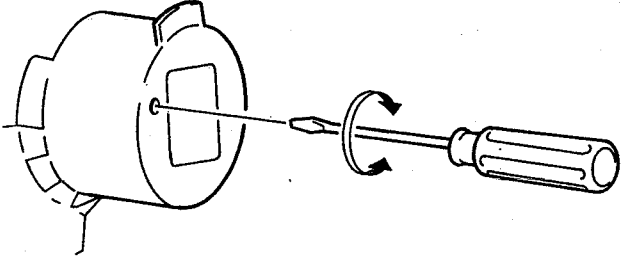
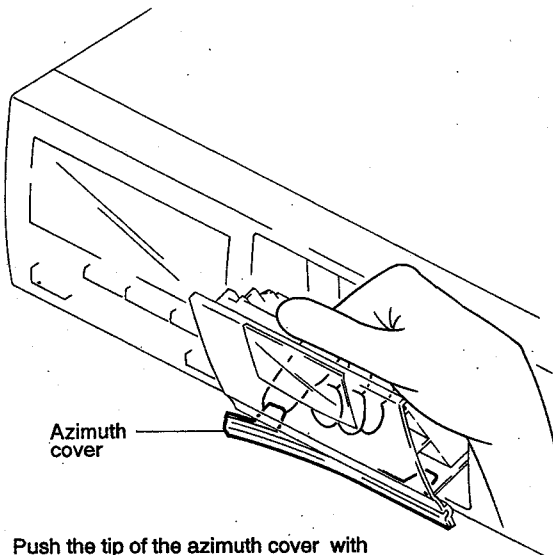
  


Fig. 1 Tape speed adjustment

● **Before performing the head azimuth adjustment**

Remove the azimuth cover before performing this adjustment.



Push the tip of the azimuth cover with your figure from inside the door pocket.

Fig. 2 Removal of Azimuth Cover

## 2. ELECTRICAL ADJUSTMENTS

### Adjustment Conditions

1. The mechanical adjustments must be completed first.
2. The head must be cleaned and demagnetized.
3. Turn power on allow the deck to warm up for at least a few minutes before commencing any electrical adjustments.
4. The reference signal is 0 dBV=1 Vrms.
5. Connect a 10 kΩ load resistance to the OUTPUT terminals.
6. Unless otherwise specified, the switches listed below are left in the positions indicated.

DOLBY NR : OFF  
 TAPE SELECTOR : NORM

### Test Tapes

STD-331E : Playback adjustments  
 (See Fig. 3)  
 STD-631 or STD-632 : NORMAL blank tape  
 STD-621 : CrO<sub>2</sub> blank tape  
 STD-610 : METAL blank tape

\* As the reference recording level is 250 nwb/m for STD-331E, the recording level will be higher by 4 dB for STD-331B (160 nwb/m). When adjusting, pay carefull attention to the type of tape used.

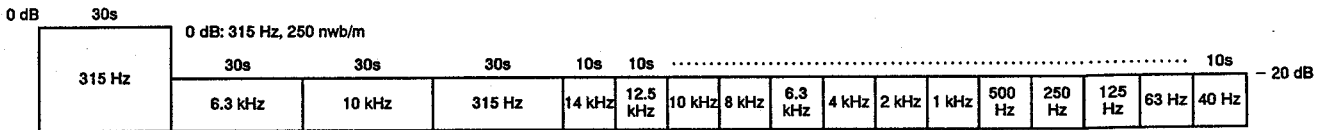


Fig. 3 Constants of the test tape STD-331E

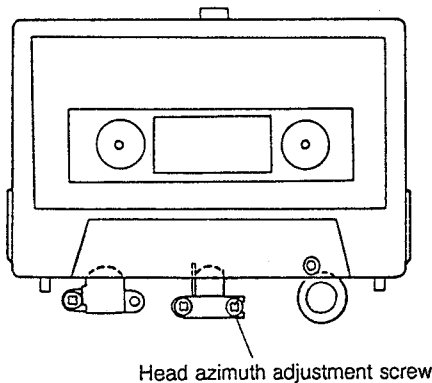


Fig. 4 Head azimuth adjustment

### List of Adjustments


#### Playback sections

1. Head azimuth adjustment.
2. Playback level adjustment.

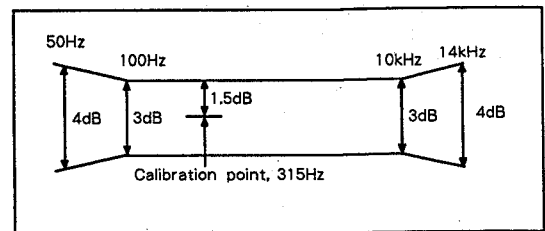
#### Recording sections

1. Bias oscillator adjustment.
2. Recording bias adjustment.
3. Recording level adjustment.
4. AUTO BLE adjustment

NOTE: This unit has an automatic tape selection feature.

HX Pro headroom extension originated by Bang & Olufsen and manufactured under license from Dolby Laboratories Licensing Corporation.  
 "DOLBY", the double-D symbol , and "HX PRO" are trademarks of Doldy Laboratories Licensing Corporation.

### PLAY BACK



### RECORDING

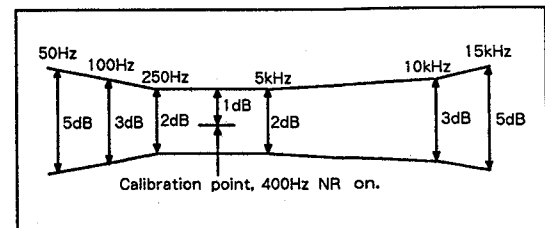


Fig. 5 Frequency response zone

## PLAYBACK SECTION

### 1. Head Azimuth Adjustment

- Turn VR101, 102 to mechanical center positions.

No.	Mode	Input signal & test tape	Adjustment location	Measuring location	Adjustment value	Remarks
1.	PLAY	Play the 10 kHz/-20 dB section of STD-331E test tape.	Head azimuth adjustment screw. (See Fig. 4)	LINE OUT	Maximum playback signal level.	
2.	STOP	Lock the screw with screw lock after completing adjustment.				

### 2. Playback Level Adjustment

- This adjustment determines the DOLBY NR level, and must be performed with great care.

No.	Mode	Input signal & test tape	Adjustment location	Measuring location	Adjustment value	Remarks
1.	PLAY	Play the 315 Hz/0 dB section of the STD-331E test tape.	Deck VR101 (Lch) VR102 (Rch)	TP. 3 (Lch) TP. 4 (Rch)	-7.2 dBV	

## RECORDING SECTION

### 1. Bias Oscillator Adjustment

No.	Mode	Input signal & test tape	Adjustment location	Measuring location	Adjustment value	Remarks
1.	REC	Load the STD-610 test tape with no input signal.	Deck L622	TP. 11	106 kHz $\pm$ 0.3 kHz	

### 2. Recording Bias Adjustment

- Turn the DOLBY NR switch is OFF.
- After the adjustment, caution should be exercised so as not to become under bias by checking the distortion rate.

No.	Mode	Input signal & test tape	Adjustment location	Measuring location	Adjustment value	Remarks
1.	REC/ PAUSE	Apply a 315 Hz and 10 kHz signal to the line input terminals, load the STD-631 or STD-632 test tape.	REC level control volume	LINE OUT	-26 dBV	
2.	REC	Record the above signal onto the STD-631 or STD-632 test tape, and playback	Deck VR601 (Lch) VR602 (Rch)		Repeatedly record, playback and adjust so that the playback level of 10 kHz signal becomes 0 dB $\pm$ 0.5 dB when compared with the 315 Hz signal.	

### 3. Recording Level Adjustment

- Turn the DOLBY NR switch is OFF.

No.	Mode	Input signal & test tape	Adjustment location	Measuring location	Adjustment value	Remarks
1.	REC/ PAUSE	Apply a 315 Hz signal to the line input terminals, load the STD-631 or STD-632 test tape.	REC level control volume	LINE OUT	-10.0 dBV	
2.	REC/ PLAY	Record the above signal onto the STD-631 or STD-632 test tape, and playback.	Deck VR551 (Lch) VR552 (Rch)	TP. 3 (Lch) TP. 4 (Rch)	Repeatedly record, playback and adjust so that the playback signal level becomes -11.2 dBV.	
3.	REC/ PLAY	Record the above signal onto the STD-621 test tape, and playback.	Check	TP. 3 (Lch) TP. 4 (Rch)	-11.2 dBV $\pm$ 1.5 dB	
4.	REC/ PLAY	Record the above signal onto the STD-610 test tape, and playback.	Check	TP. 3 (Lch) TP. 4 (Rch)	-11.2 dBV $\pm$ 1.5 dB	



**4. AUTO BLE Adjustment**

- BLE adjustment should be performed after all other adjustments are completed.
- This adjustment should be performed in the test mode.
- Entering the Test Mode.  
Turn on the power, and after more than 4 seconds, press the "COUNTER RESET" button, "COUNTER MODE" button and **||** (PAUSE) button simultaneously.
- Releasing the Test Mode.  
Press the "COUNTER RESET" button.

No.	Mode	Input signal & test tape	Adjustment location	Measuring location	Adjustment value	Remarks
1.		Set to test mode.	-	-	-	
2.		Press the AUTO BLE key on the front panel.	VR401	Level meter Rch	Adjust the Lch segment which is lit until Rch is not lighting up. → Lch <input checked="" type="checkbox"/> <input type="checkbox"/> Rch <input checked="" type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> ( <input checked="" type="checkbox"/> : light up <input type="checkbox"/> : not light up )	400 Hz adjustment (FL indication 1)
3.		Press the AUTO BLE key on the front panel.	VR402			3 kHz adjustment (FL indication 2)
4.		Press the AUTO BLE key on the front panel.	VR403			15 kHz adjustment (FL indication 3)

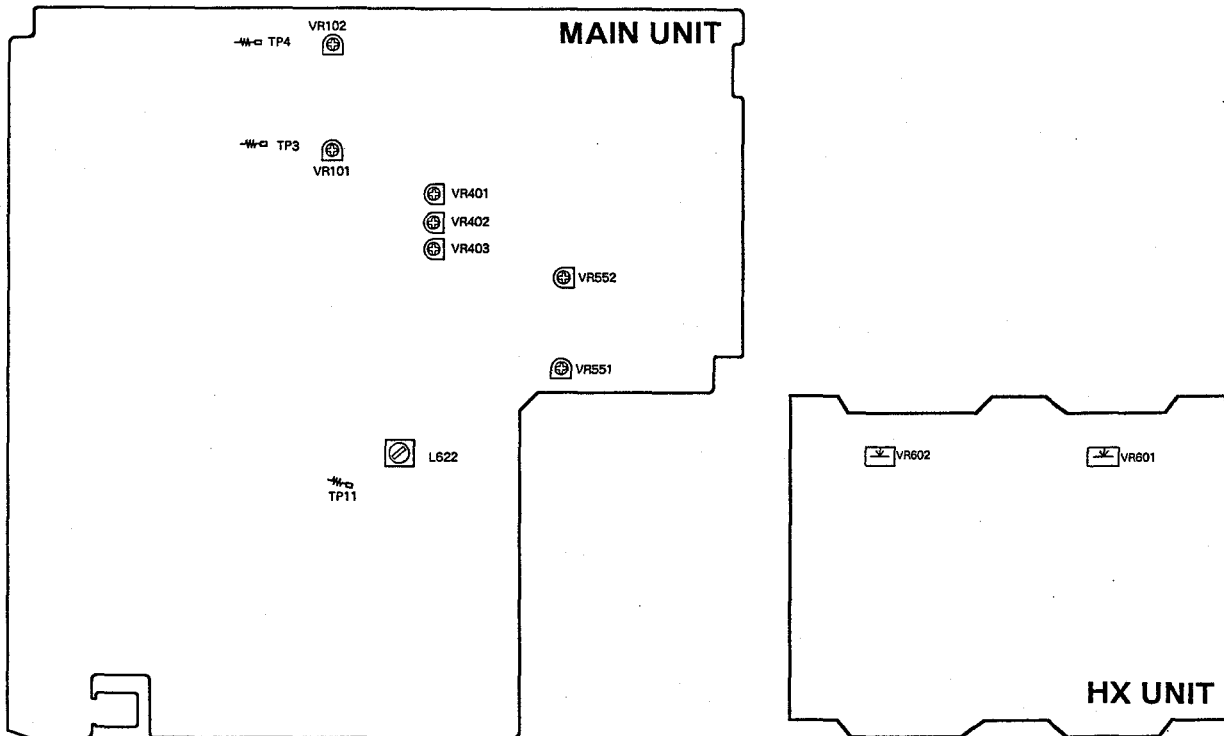


Fig. 6 Adjusting points

# 1.6 PARTS LIST FOR EXPLODED VIEWS AND PACKING

**NOTES:**

- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
- The  $\Delta$  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by "⊙" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

## 1. EXTERIOR AND PACKING

**● PACKING**

**Contrast of CT-S630S/HEM, CT-S630S/HB, CT-S630S-G/HEM and CT-S530/HEM**

CT-S630S/HEM, CT-S630S/HB, CT-S630S-G/HEM and CT-S530/HEM and have the same construction except for the following:

Mark	No.	Symbol & Description	Part No.				Remarks
			CT-S630S/HEM	CT-S630S/HB	CT-S630S-G/HEM	CT-S530/HEM	
	3	Packing case Operating instructions (German/Italian/Dutch/Swedish/ Spanish/Portuguese)	RHG1566	RHG1567	RHG1568	RHG1569	
	7		RRD1153	Not used	RRD1153	RRD1153	
	11	Pad spacer A	Not used	RHC1039	Not used	Not used	
	12	Pad spacer B	Not used	RHC1041	Not used	Not used	

**• For CT-S630S/HEM**

**Parts List**

Mark	No.	Description	Part No.
	1	Pad (L)	RHA1111
	2	Pad (R)	RHA1112
	3	Packing case	RHG1566
	4	Sheet	RHX - 034
	5	Connection cord assy (For AUDIO)	RDE1036
	6	Control cord (For CD • DECK SYNCHRO)	RDE1038
	7	Operating instructions (German/Italian/Dutch/ Swedish/Spanish/Portuguese)	RRD1153
	8	Operating instructions (English/French)	RRE1103
	9	Spacer A	RHC1044
	10	Cord with mini plug (For SR cord)	PDE1247

# CT-S630S, CT-S630S-G, CT-S530

## ● EXTERIOR

### Contrast of CT-S630S/HEM, CT-S630S/HB, CT-S630S-G/HEM and CT-S530/HEM

CT-S630S/HEM, CT-S630S/HB, CT-S630S-G/HEM and CT-S530/HEM have the same construction except for the following:

Mark	No.	Symbol & Description	Part No.				Remarks
			CT-S630S/HEM	CT-S630S/HB	CT-S630S-G/HEM	CT-S530/HEM	
△	2	Power cord with plug	PDG1003	PDG1055	PDG1003	PDG1003	
	4	Name plate	RAM1007	RAM1007	RAM1014	RAM1007	
	7	Azimuth cover	RAH2431	RAH2431	RAH2432	RAH2431	
	9	Main unit	RWZ3221	RWZ3221	RWZ3221	RWZ3282	
	10	DISP unit	RWZ3222	RWZ3222	RWZ3222	RWZ3283	
	11	1/f unit	RWX1092	RWX1092	RWX1092	RWX1086	
	16	VR knob	RAC1707	RAC1707	RAC1708	RAC1707	
	17	Power knob	RAC1809	RAC1809	RAC1912	RAC1809	
	18	Operation knob	RAC1795	RAC1795	RAC1910	RAC1795	
	19	Balance knob	RAC1705	RAC1705	RAC1662	RAC1705	
	20	Mode knob A	RAC1800	RAC1800	RAC1909	RAC1800	
	21	Slide knob	RAC1713	RAC1713	RAC1915	RAC1713	
	26	Dolby S unit	RWX1101	RWX1101	RWX1101	.....	
	28	Door pocket	RAH2440	RAH2440	RAH2441	RAH2442	
	30	Bonnet	REA1077	REA1077	REA1134	REA1077	
	31	Front panel	RAH2428	RAH2428	RAH2429	RAH2430	
	41	Eject knob	RAC1772	RAC1772	RAC1914	RAC1772	
	48	OPSW unit	RWZ3223	RWZ3223	RWZ3223	RWZ3284	
	49	TRN 2 unit	RWZ3225	RWZ3225	RWZ3225	RWZ3286	
	NSP	NSP	50	TRN 1 unit	RWZ3224	RWZ3224	RWZ3285
	52	Rear panel	RNA1830	RNA1831	RNA1832	RNA1833	
	NSP	62	Pin cap	Not used	Not used	Not used	
	NSP	63	Insect proof plate	Not used	DEC1158	Not used	
	NSP	64	Screw	Not used	Not used	BBZ30P080FCC	
	NSP	65	Earth plate	Not used	Not used	RNE1795	
△	66	Fuse (T5A)	Not used	PEK1003	Not used	Not used	

### • For CT-S630S/HEM

#### Parts List

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
△	1	Strain relief	CM - 22B		31	Front panel	RAH2428
△	2	Power cord with plug	PDG1003		32	Screw	ABZ30P080FMC
△	3	FU801, FU803 Fuse (T1A)	REK1022		33	Screw	BBZ26P060FMC
	4	Name plate	RAM1007		34	Screw	BBZ30P060FZK
△	5	Power transformer (T1)	RTT1268		35	Screw	BBZ30P080FMC
	6	Cord clamper	RNH - 184		36	.....	
	7	Azimuth cover	RAH2431		37	.....	
	8	Half pressure spring	RBK1004		38	Screw	IBZ30P150FCU
	9	Main unit	RWZ3221		39	Lead card 33P	RDD1284
	10	DISP unit	RWZ3222		40	Connector assy 2P	RKP1681
	11	1/f unit	RWX1092		41	Eject knob	RAC1772
	12	HX unit	RWX1069		42	Door spring L	RBH1341
	13	Insulator	PNW1912		43	Damper assy	REC1005
	14	Lens S	RNK1911		44	Screw	BCZ26P050FMC
	15	LED lens	PNW2019		45	Screw	IPZ26P080FMC
	16	VR knob	RAC1707		46	Eject spring	RBH1342
	17	Power knob	RAC1809		47	Washer	WA52D080D025
	18	Operation knob	RAC1795		48	OPSW unit	RWZ3223
	19	Balance knob	RAC1705	NSP	49	TRN 2 unit	RWZ3225
	20	Mode knob A	RAC1800	NSP	50	TRN 1 unit	RWZ3224
	21	Slide knob	RAC1713	NSP	51	Mechanism bracket	RNE1601
	22	Mode knob B	RAC1808		52	Rear panel	RNA1830
	23	Door lens	RAH2171	NSP	53	PCB spacer	PNY - 404
	24	.....		NSP	54	Trans shield plate	RNE1451
	25	Mechanism unit	RYM1224	NSP	55	Main chassis	RNB1090
	26	Dolby S unit	RWX1101		56	Connector assembly 4P	RKP1696
	27	Remain display paper	REE - 113		57	Connector assembly 4P	RKP1697
	28	Door pocket	RAH2240	NSP	58	Arm Collar	RLA1124
	29	FL lens	RAH2291	NSP	59	Eject arm	RNE1597
	30	Bonnet	REA1077		60	Screw	BBZ30P040FZK
				NSP	61	Binder	Z09 - 058

**2. MECHANISM UNIT**
**Parts List**

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	1	Fixed core	RLA1130		46	Chassis base BLK	RXA1557
	2	Planger	RLA1132		47	Head base	RNE1390
	3	Head (R/P)	RPB1047		48	Head spacer	RNK2106
	4	Head (E)	RPB1040		49	Eject prevention arm (L)	RNE1199
	5	Push SW	RSG1018		50	Lever (L) (EJECT)	RNK1593
	6	MTR reel BLK	RXM1057		51	Screw	PMZ20P080FMC
	7	MTR main BLK	RXM1058		52	Spacer	RLA1275
	8	Solenoid BLK	RXP1010				
	9	Photo - transistor	SPI33534FG				
	10	Main belt	REB1163				
	11	Pinch roller ass'y	RXA1183				
	12	F/W ass'y	RXA1346				
	13	Washer	WA26D045D025				
	14	Screw 2.6 x 6.4 ZN	RBA1076				
	15	Washer	RBF - 057				
	16	Reel base BLK	RXA1184				
	17	Idler BLK	RXA1248				
	18	.....					
	19	Washer	RBF1038				
	20	Azimuth SP	RBH1076				
	21	Head base SP	RBL1003				
	22	Slide SP	RBH1239				
	23	Play arm	RNK1525				
	24	Cam gear (3R)	RNK1672				
	25	.....					
	26	Lever SP (L) (EJECT)	RBH1262				
	27	Eject prevention spring (L)	RBH1234				
	28	Spring (CASSETTE)	RBK1048				
	29	Lever collar B	RLA1146				
	30	Detector lever (REC)	RNK1527				
	31	Metal detector lever (L)	RNK1529				
	32	Detector lever (P)	RNK1543				
	33	.....					
	34	Screw	RBA1101				
	35	Plate HD BLK	RXA1488				
	36	Screw	PMA26P050FMC				
	37	F lock screw	RBA1031				
	38	Screw (7.7)	RBA1048				
	39	Screw	RBA1078				
	40	Washer	WA26D047D050				
	41	Washer	YE15FUC				
	42	Holder cushion (L)	RED1027				
	43	F lock screw	RBA1102				
	44	Screw	RBA1068				
	45	PCB control BLK	RXA1487				

## 1.7 PCB PARTS LIST

### NOTES:

- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
- The  $\Delta$  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by "⊙" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560  $\Omega$   $\rightarrow$  56  $\times$  10<sup>1</sup>  $\rightarrow$  561 ..... RD1/8PM  $\begin{matrix} 5 & 6 & 1 \\ \hline \end{matrix}$  J  
 47k  $\Omega$   $\rightarrow$  47  $\times$  10<sup>3</sup>  $\rightarrow$  473 ..... RD1/4PS  $\begin{matrix} 4 & 7 & 3 \\ \hline \end{matrix}$  J  
 0.5  $\Omega$   $\rightarrow$  0R5 ..... RN2H  $\begin{matrix} 0 & R & 5 \\ \hline \end{matrix}$  K  
 1  $\Omega$   $\rightarrow$  010 ..... RS1P  $\begin{matrix} 0 & 1 & 0 \\ \hline \end{matrix}$  K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k  $\Omega$   $\rightarrow$  562  $\times$  10<sup>1</sup>  $\rightarrow$  5621 ..... RN1/4PC  $\begin{matrix} 5 & 6 & 2 & 1 \\ \hline \end{matrix}$  F

### LIST OF WHOLE PCB ASSEMBLIES

Mark	PCB Assemblies	Part No.				Remarks
		CT-S630S/HEM	CT-S630S/HB	CT-S630S-G/HEM	CT-S530/HEM	
NSP	MOTHER UNIT	RWM1698	RWM1698	RWM1698	RWM1719	
	├── MAIN UNIT	RWZ3221	RWZ3221	RWZ3221	RWZ3282	
	│   ├── HX UNIT	RWX1069	RWX1069	RWX1069	RWX1069	
	│   ├── 1/F UNIT	RWX1092	RWX1092	RWX1092	RWX1086	
	│   └── DOLBY S UNIT	RWX1101	RWX1101	RWX1101	Not used	
	├── DISP UNIT	RWZ3222	RWZ3222	RWZ3222	RWZ3283	
	├── OPSW UNIT	RWZ3223	RWZ3223	RWZ3223	RWZ3284	
NSP	├── TRN 1 UNIT	RWZ3224	RWZ3224	RWZ3224	RWZ3285	
NSP	└── TRN 2 UNIT	RWZ3225	RWZ3225	RWZ3225	RWZ3286	

### MAIN UNIT

**RWZ3221 and RWZ3282 have the same construction except for the following:**

Mark	Symbol & Description	Part No.		Remarks
		RWZ3221	RWZ3282	
	IC201, IC251	CXA1563S	CXA1560S	
	IC341	BA15218N	Not used	
	Q284	DTA124ES	Not used	
	D286	1SS254	Not used	
	C343, C344	CEAS330M16	Not used	
	C209	CCCSL101J50	Not used	
	R261	RD1/6PM223J	Not used	
	R331, R332	RD1/6PM104J	Not used	
	R341 - R344	RD1/6PM152J	Not used	
	R710	RD1/6PM473J	Not used	
	C341, C342	CEAS470M16	Not used	

### 1/F UNIT

**RWX1092 and RWX1086 have the same construction except for the following:**

Mark	Symbol & Description	Part No.		Remarks
		RWX1092	RWX1086	
	R1115	RD1/6PM363J	RD1/6PM183J	

**DISP UNIT**

**RWZ3222 and RWZ3283 and have the same construction except for the following:**

Mark	Symbol & Description	Part No.		Remarks
		RWZ3222	RWZ3283	
	D1511	1SS254	Not used	

**OPSW UNIT**

**Although RWZ3223 and RWZ3284 are different in part number, they consist of the same components.**

**TRN 1 UNIT**

**Although RWZ3224 and RWZ3285 are different in part number, they consist of the same components.**

**TRN 2 UNIT**

**Although RWZ3225 and RWZ3286 are different in part number, they consist of the same components.**

**• PARTS LIST FOR CT-S630S/HEM**

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.	
<b>MAIN UNIT</b>						Q481, Q482, Q501, Q502	DTC124ES	
						Q521, Q522, Q553-Q555	DTC124ES	
<b>SEMICONDUCTORS</b>						Q735-Q738, Q761, Q762, Q833	DTC124ES	
	IC541		BA10339			Q851, Q942	DTC124ES	
	IC161, IC341, IC401, IC501, IC951		BA15218N			Q641, Q643	DTC124TS	
	IC551		CXA1198AP			D901	11ES2	
	IC201, IC251		CXA1563S			D801-D804, D806, D810-D813	ISR35-100AVL	
	IC702		LC7570	△				
	IC101		M5220P			D151, D286, D501-D503	1SS254	
△	IC803		NJM7805FA			D541-D545, D621, D701	1SS254	
△	IC801		NJM7806FA			D703-D705, D731-D735	1SS254	
△	IC805		NJM7812FA			D761, D762, D771, D832-D835	1SS254	
△	IC802		NJM7906FA			D851-D856	1SS254	
△	IC806		NJM79L12A	△	D807		MTZJ22A	
	IC703		NM93C46N	△	D836		MTZJ3. 6B	
	IC701		PD4443A	△	D808		MTZJ7. 5B	
	IC941		TA7288P		D702		MTZJ9. 1A	
	IC543		TC4050BP					
	IC331		TC4052BP	<b>COILS AND FILTERS</b>				
	Q771		2SA1309A			L621	LFA121K	
	Q621, Q622		2SC3243			L622	RTD1054	
	Q905		2SC3246			L551, L552	RTF1094	
	Q181, Q182, Q551, Q552, Q640		2SC3311A			L101, L102	RTF1099	
	Q831, Q832, Q835, Q908, Q921		2SC3311A			F201, F202	RTF1208	
	Q951, Q952		2SC3311A	<b>CAPACITORS</b>				
	Q906, Q907		2SD1858X			C115, C116	CCCCH181J50	
	Q351, Q352, Q557, Q558, Q623		2SD2144S			C117, C118	CCCCH221J50	
	Q403		2SK246			C175, C176	CCCCL221J50	
	Q172, Q284, Q772, Q834		DTA124ES			C351, C401, C551, C552, C564	CEASO10M50	
	Q101, Q102, Q151, Q152, Q171		DTC124ES			C107, C108, C771, C903	CEAS100M50	
	Q283, Q401, Q402, Q461-Q476		DTC124ES			C209	CCCCL101J50	
						C121, C122, C207, C208	CEAS101M10	

# CT-S630S, CT-S630S-G, CT-S530

Mark No.	Description	Part No.
C559, C560, C953, C954 C808 C806, C810		CEAS101M10 CEAS101M16 CEAS101M50
C809 C833 C803, C804 C801, C802 C173, C174, C253, C254		CEAS102M6R3 CEAS220M16 CEAS221M10 CEAS222M16 CEAS330M16
C259, C260, C343, C344 C555, C556, C628 C503, C504 C171, C172, C331, C332 C341, C342, C522, C621, C702		CEAS330M16 CEAS330M16 CEAS3R3M50 CEAS470M16 CEAS470M16
C721 C201, C202, C553, C554, C831 C834 C203, C204, C255, C256 C505, C506		CEAS470M16 CEAS4R7M50 CEAS4R7M50 CEASR10M50 CEASR47M50
C557, C558 C405, C624, C625 C406, C626 C261, C262, C407 C623		CFTXA102J50 CFTXA332J50 CFTXA682J50 CFTYA103J50 CFTYA223J50
C109, C110, C402 C105, C106, C403 C205, C206, C257, C258 C404 C501, C502		CFTYA273J50 CFTYA563J50 CFTYA683J50 CFTYA823J50 CGCYX473K25
C507, C508 C541, C701, C703-C705, C722 C761, C762, C851, C852, C905 C921, C955 C353, C815-C821, C853		CKCYB122K50 CKCYF103Z50 CKCYF103Z50 CKCYF103Z50 CKCYF473Z50
C941, C942 C103, C104 C113, C114 C101, C102 C627		CKCYF473Z50 CKPUYB101K50 CKPUYB102K50 CQPA271J100 CQPA682J100
C805 (3300/35) C807 (3300/16)		RCH1125 RCH1126
<b>RESISTORS</b>		
R714 R707 R701 R545 R709		RA10T223J RA4T103J RA4T683J RA5T223J RA9T683J
R623, R624 (4.7Ω) R205, R206 (22K) R263, R264 (560Ω) R546 (11K) R611		RCN1022 RCN1023 RCN1024 RCX1020 RD1/2LMF010J
R801 R905 VR401, VR402 (10K)		RFA1/4L220J RS2LMF560J RCP1045

Mark No.	Description	Part No.
VR551, VR552 (22K) VR101, VR102, VR403 (47K)		RCP1046 RCP1047
VR191 VR192 Other Resistors		RCS1028 RCV1095 RD1/6PM□□□J
<b>OTHERS</b>		
CN501 33P CONNECTOR CN14 CONNECTOR POST CN11 CONNECTOR POST CN12 CONNECTOR POST JA853 JACK		3-177644-3 B2B-PH-K B4B-PH-K-E B4B-PH-K-R PKN1005
JA351 4P JACK JA951 JACK JA851, JA852 JACK CN401 11P JUMPER CONNECTOR PCB BINDER		RKB-020 RKN1002 RKN1004 SBRK11S VEF1008
EARTH PLATE X701 CERAMIC RESONATOR (4.19MHz)		VNF-091 VSS1014
<b>HX UNIT</b>		
<b>SEMICONDUCTORS</b>		
IC601 Q602 Q603 D602		UPC1297CA 2SA1309A DTC124ES 1SS254
<b>COILS AND FILTERS</b>		
L601, L602 (4.6MHz)		RTD1011
<b>CAPACITORS</b>		
C609, C610 C616, C617 C614 C601, C602 C605, C606		CCCSL101K500 CEAS330M35 CEASR10M50 CFTXA103J50 CFTXA223J50
C607, C608 C613 C603, C604 C611, C612 (390P/500)		CGCYX223K25 CKPUYB101K50 CKPUYB821K50 RCG1004
<b>RESISTORS</b>		
VR601, VR602 Other Resistors		VRTB6HS473 RD1/6PM□□□J
<b>1/F UNIT</b>		
<b>SEMICONDUCTORS</b>		
IC1111, IC1131 Q1131-Q1136 D1111		BA15218N DTC124ES 1SS254
<b>CAPACITORS</b>		
C1141-C1143 C1117, C1118 C1139, C1140 C1119 C1133, C1134  C1135, C1136		CEAS010M50 CEAS101M10 CEAS4R7M50 CEASR47M50 CGCYX152K25  CGCYX272K25

# CT-S630S, CT-S630S-G, CT-S530

Mark	No.	Description	Part No.
	C1115, C1116		CGCYX332K25
	C1120		CGCYX473K25
	C1137, C1138		CGCYX562K25
	C1111, C1112		CGCYX822K25
	C1113		CKPUYB101K50
<b>RESISTORS</b>			
	Other Resistors		RD1/6PM□□□J
<b>DOLBY S UNIT</b>			
<b>SEMICONDUCTORS</b>			
	IC1001, IC1002		CXA1417Q-Q
<b>CAPACITORS</b>			
	C1003, C1004, C1015, C1016		CEJA010M50
	C1051, C1052		CEJA010M50
	C1089, C1090		CEJA100M25
	C1085, C1086		CEJA220M25
	C1029, C1030, C1035, C1036		CEJA470M16
	C1033, C1034		CEJAR10M50
	C1001, C1002, C1031, C1032		CEJAR22M50
	C1045, C1046, C1091, C1092		CEJAR22M50
	C1027, C1028, C1041, C1042		CEJAR47M50
	C1075, C1076		CEJAR47M50
	C1019, C1020		CFTYA224J50
	C1037, C1038		CFTYA334J50
	C1013, C1014, C1055, C1056		CKSQYB102K50
	C1007, C1008, C1025, C1026		CKSQYB104K25
	C1043, C1044, C1067, C1068		CKSQYB104K25
	C1077, C1078, C1081, C1082		CKSQYB104K25
	C1087, C1088		CKSQYB104K25
	C1023, C1024, C1049, C1050		CKSQYB153K50
	C1065, C1066, C1069-C1072		CKSQYB182K50
	C1083, C1084		CKSQYB182K50
	C1079, C1080		CKSQYB183K50
	C1059, C1060		CKSQYB222K50
	C1009, C1010, C1073, C1074		CKSQYB223K50
	C1093, C1094		CKSQYB333K50
	C1005, C1006, C1061, C1062		CKSQYB393K50
	C1063, C1064		CKSQYB471K50
	C1047, C1048		CKSQYB473K50
	C1011, C1012		CKSQYB681K50
	C1017, C1018, C1053, C1054		CKSQYB822K50
	C1021, C1022, C1039, C1040		CKSQYB823K25
<b>RESISTORS</b>			
	Other Resistors		RS1/10S□□□J
<b>OTHERS</b>			
	CN1002 CONNECTOR 7P		6033B-07Z029
	CN1001 CONNECTOR 8P		6033B-08Z029

Mark	No.	Description	Part No.
<b>DISP UNIT</b>			
<b>SEMICONDUCTORS</b>			
	Q1701		DTC124ES
	D1501-D1509, D1511-D1513		ISS254
	D1701		SEL6210S
<b>SWITCHES AND RELAYS</b>			
	S1506, S1507, S1701		RSG1030
	S1501-S1504		RSG1034
	S1509		RSH1041
<b>CAPACITORS</b>			
	C1501		CEAS470M16
<b>RESISTORS</b>			
	All Resistors		RD1/6PM□□□J
<b>OTHERS</b>			
	CN1501 33P CONNECTOR		3-177640-3
	V1501 FL INDICATOR TUBE		RAW1133
<b>OPSW UNIT</b>			
<b>SEMICONDUCTORS</b>			
	Q1401, Q1402		DTC124ES
	D1401-D1404		ISS254
	D1409		SEL6410G
	D1408		SEL6C10R
<b>SWITCHES AND RELAYS</b>			
	S1401-S1411		RSG1030
<b>CAPACITORS</b>			
	C1401		CEAS100M50
<b>RESISTORS</b>			
	All Resistors		RD1/6PM□□□J
<b>TRN 1 UNIT</b>			
	This unit has no service parts.		
<b>TRN 2 UNIT</b>			
	This unit has no service parts.		



# Service Manual

ORDER NO.  
RRZ1084

The chapter 1 of this Service Manual will not be reprinted. On your additional orders, we may supply only the chapter 2. For the chapter 1, please make copies and attach to the chapter 2 at your side if necessary.

STEREO CASSETTE DECK

# CT-S630S

## CT-S630S-G

## CT-S530

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## CHAPTER 2

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### CONTENTS

#### CHAPTER2

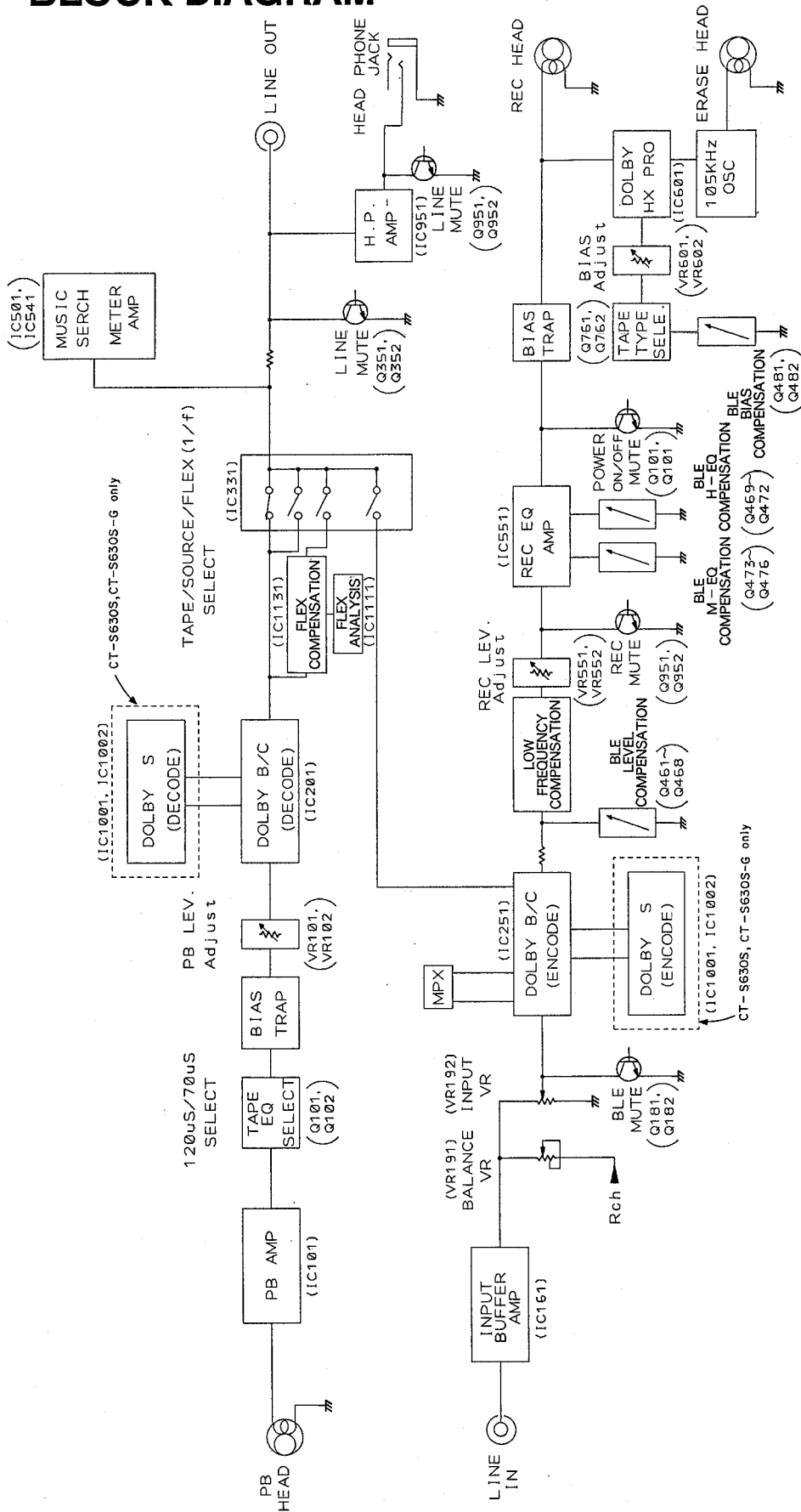
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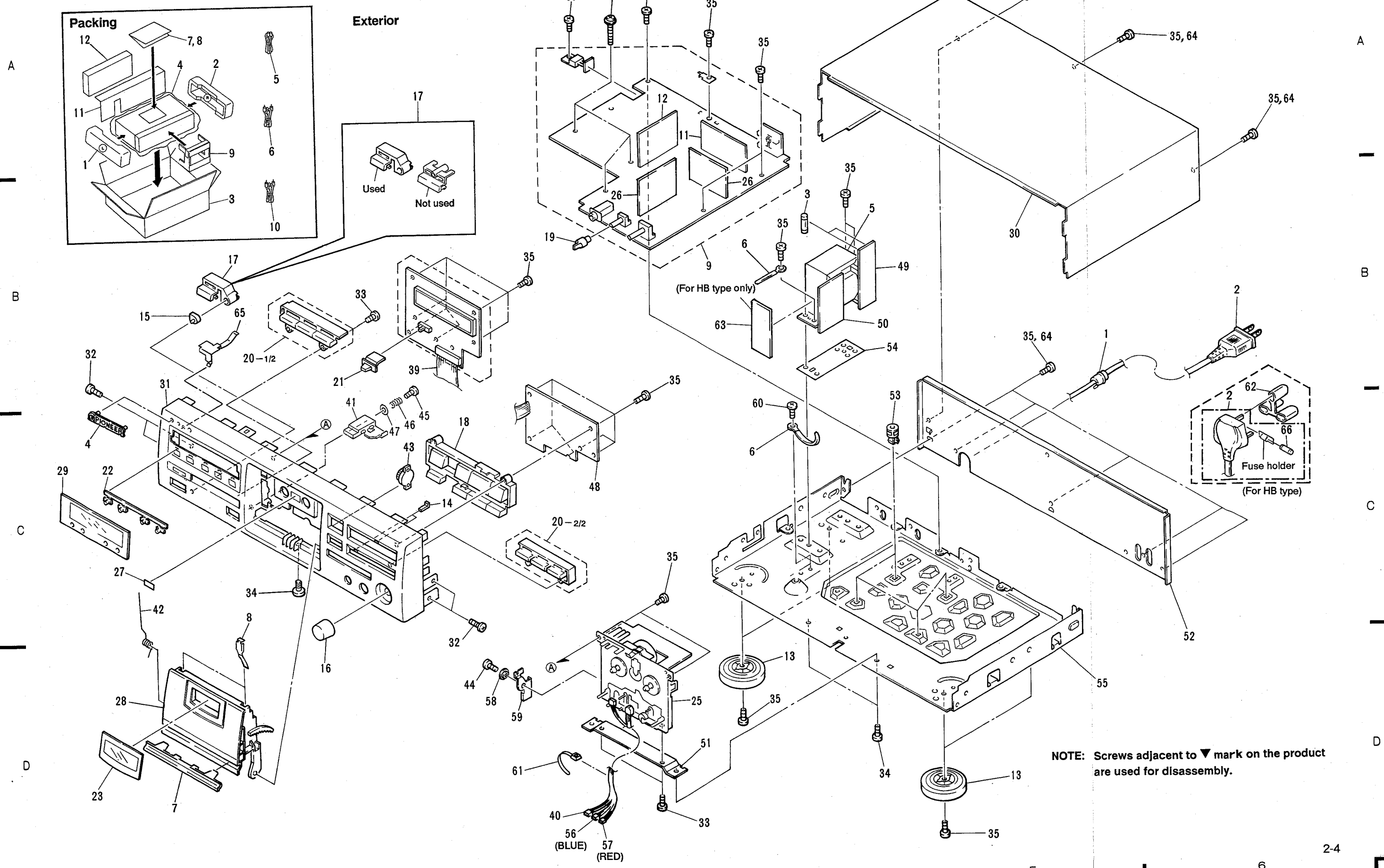
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## 2.1 BLOCK DIAGRAM

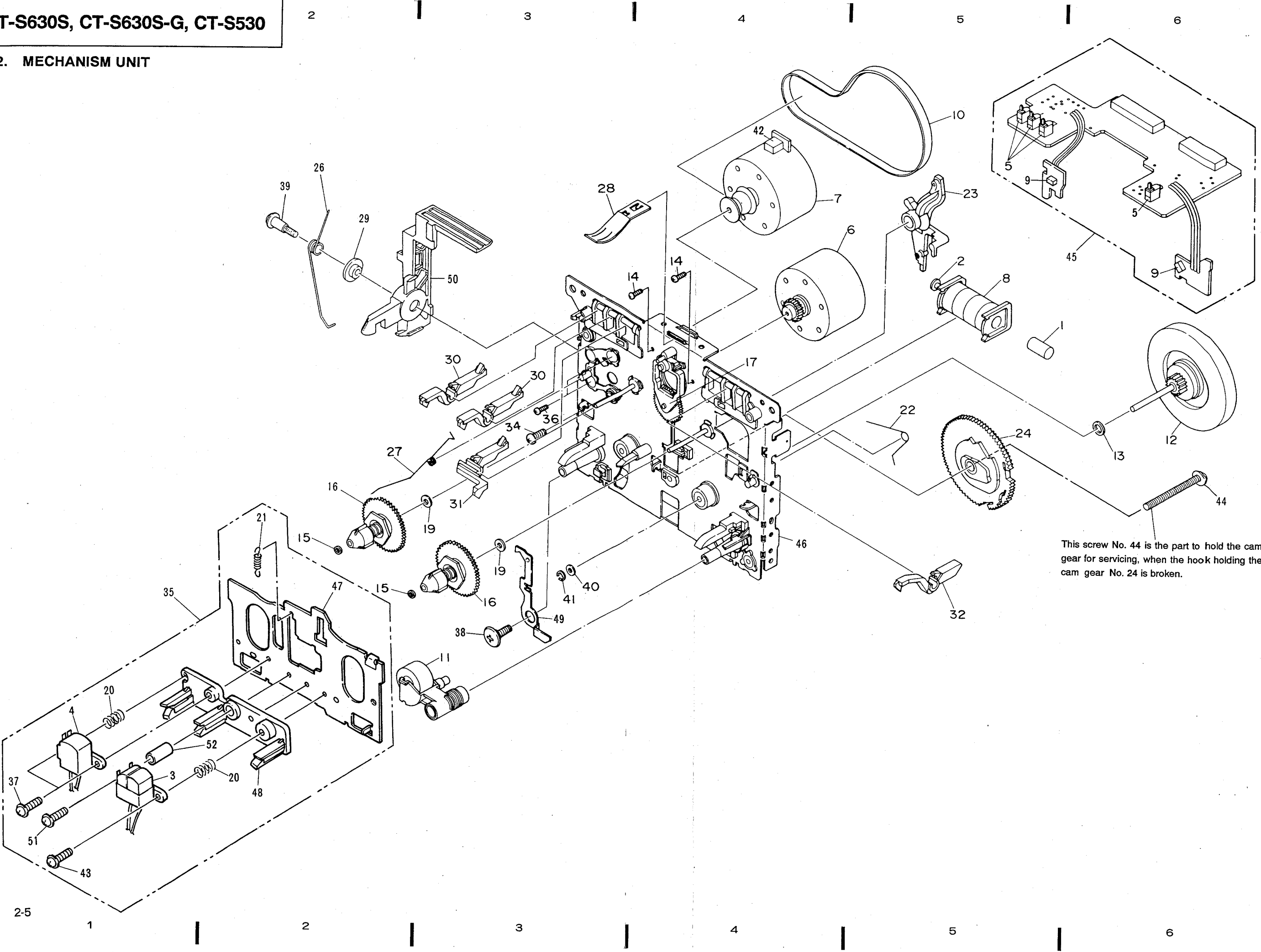


# 2.2 EXPLODED VIEWS AND PACKING

## 1. EXTERIOR AND PACKING

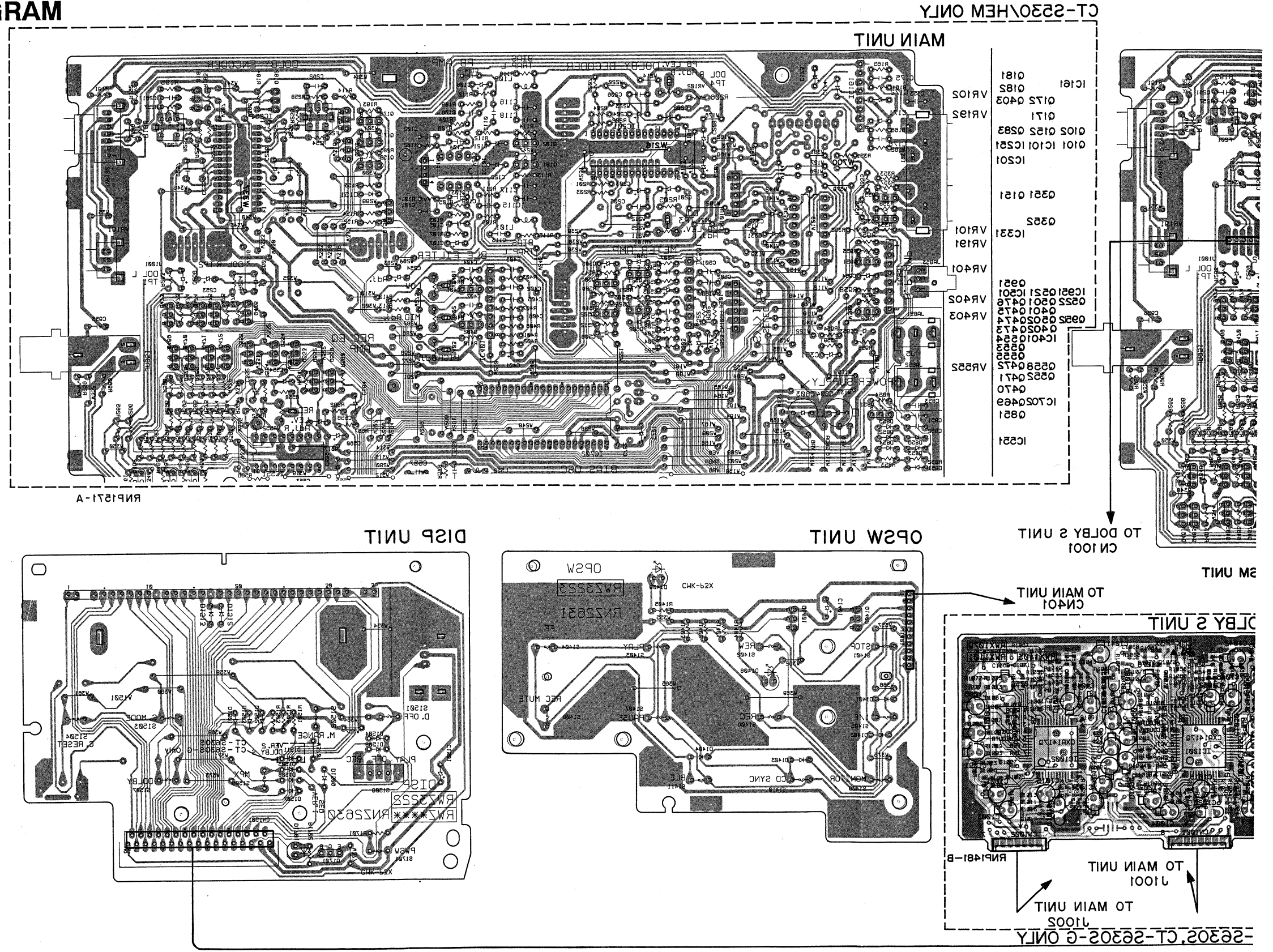


2. MECHANISM UNIT



This screw No. 44 is the part to hold the cam gear for servicing, when the hook holding the cam gear No. 24 is broken.

# 2.3 PCB CONNECTION DIAGRAM



A

B

C

D

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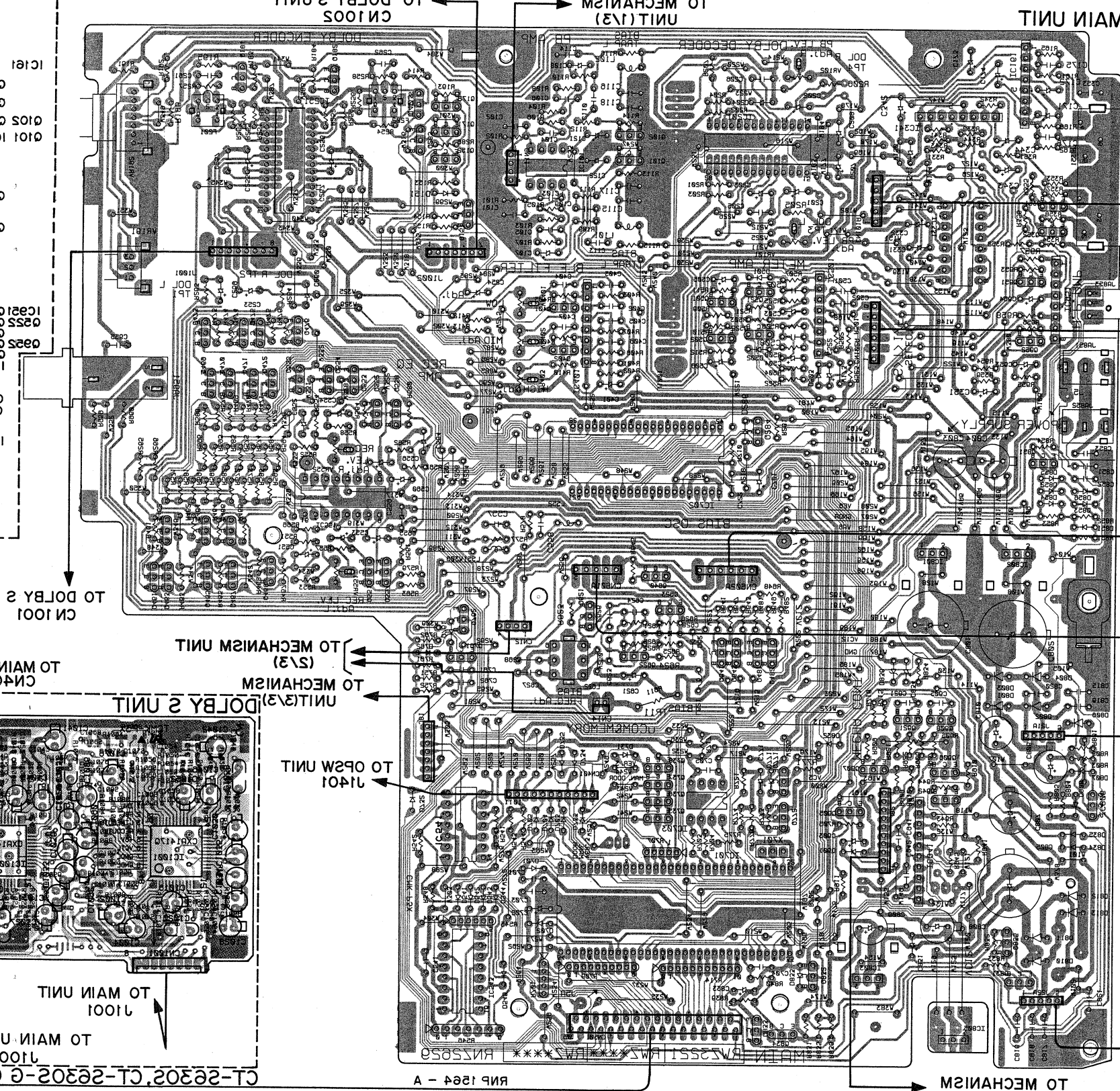
9

8

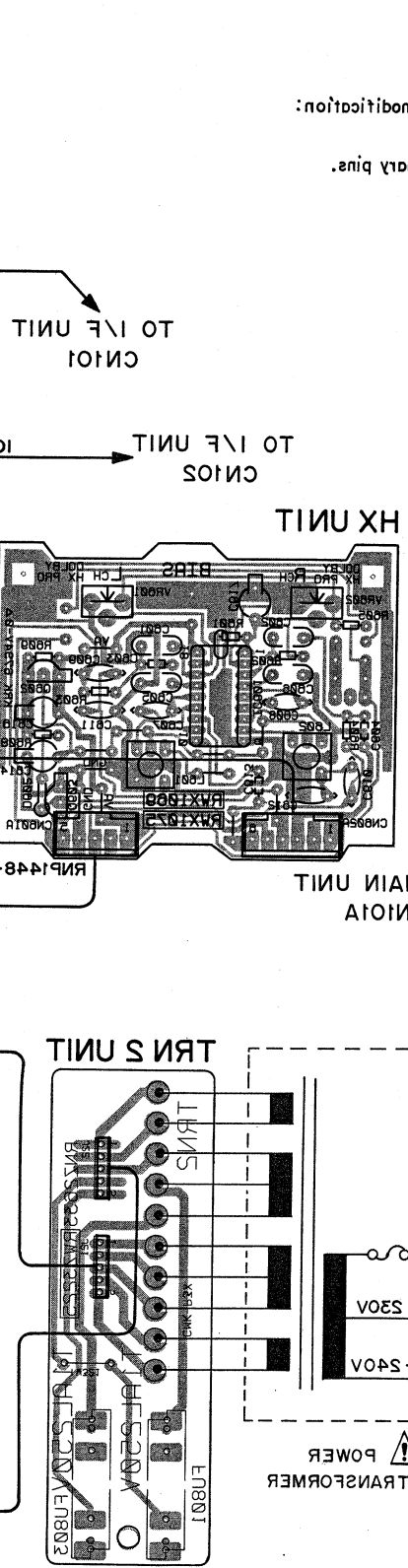
7

• This diagram is viewed from the foil side.

CT-2530



- IC808
- Q833
- Q834
- IC803
- Q835
- Q832
- IC101
- IC941
- Q806
- Q711
- Q807
- Q808
- Q809
- Q810
- Q811
- Q812
- Q813
- Q814
- Q815
- Q816
- Q817
- Q818
- Q819
- Q820
- Q821
- Q822
- Q823
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- Q994
- Q995
- Q996
- Q997
- Q998
- Q999
- Q1000



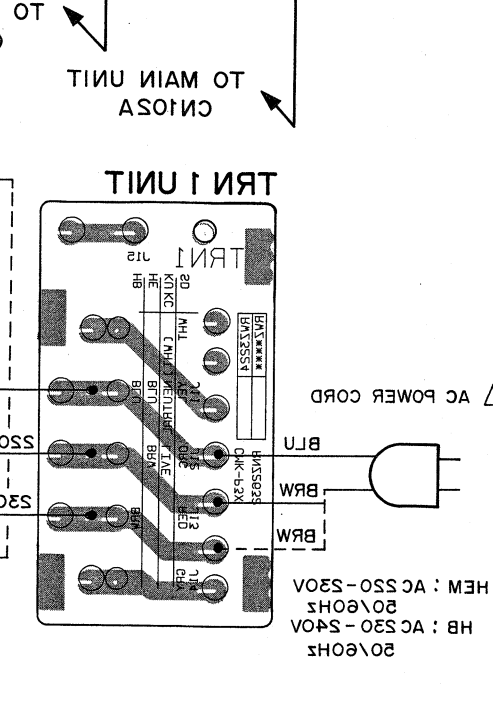
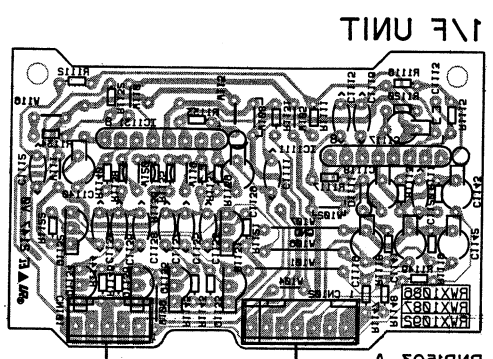
Line Voltage Selection

Line voltage can be changed by the following modification:  
 1. Disconnect the AC power cord.  
 2. Remove the top cover.  
 3. Change the connection of TRN 1 UNIT primary pins.

Terminal No. of TRN 1 UNIT	Voltage
1 12	250V-230V
1 13	230V-240V

4. Stick a line voltage label on the rear panel.

Parts No.	Description
AA3-123	250V label
AA3-124	240V label



A  
B  
C  
D

• This diagram is viewed from the mounted parts side.

A

**Line Voltage Selection**  
 Line voltage can be changed by the following modification:  
 1. Disconnect the AC power cord.  
 2. Remove the Top cover.  
 3. Change the connection of TRN 1 UNIT primary pins.

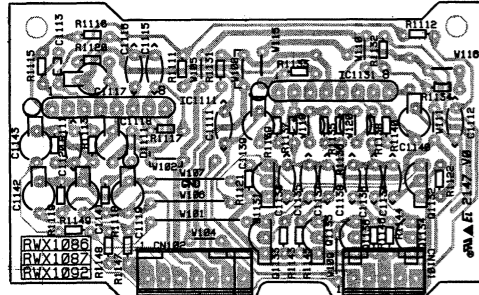
Voltage	Terminal No. of TRN 1 UNIT
220V-230V	J 12
230V-240V	J 13

4. Stick a line voltage label on the rear panel.

Parts No.	Description
AAX-193	220V label
AAX-192	240V label

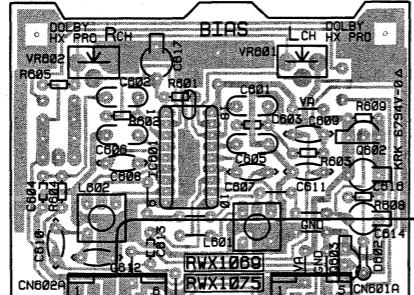
B

**1/F UNIT**



RNP1503-A

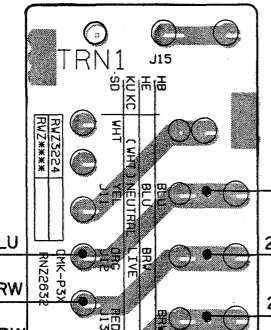
**HX UNIT**



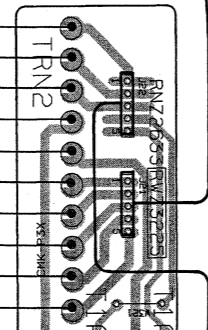
RNP1448-A

C

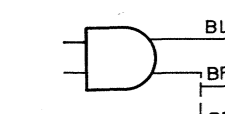
**TRN 1 UNIT**



**TRN 2 UNIT**



AC POWER CORD

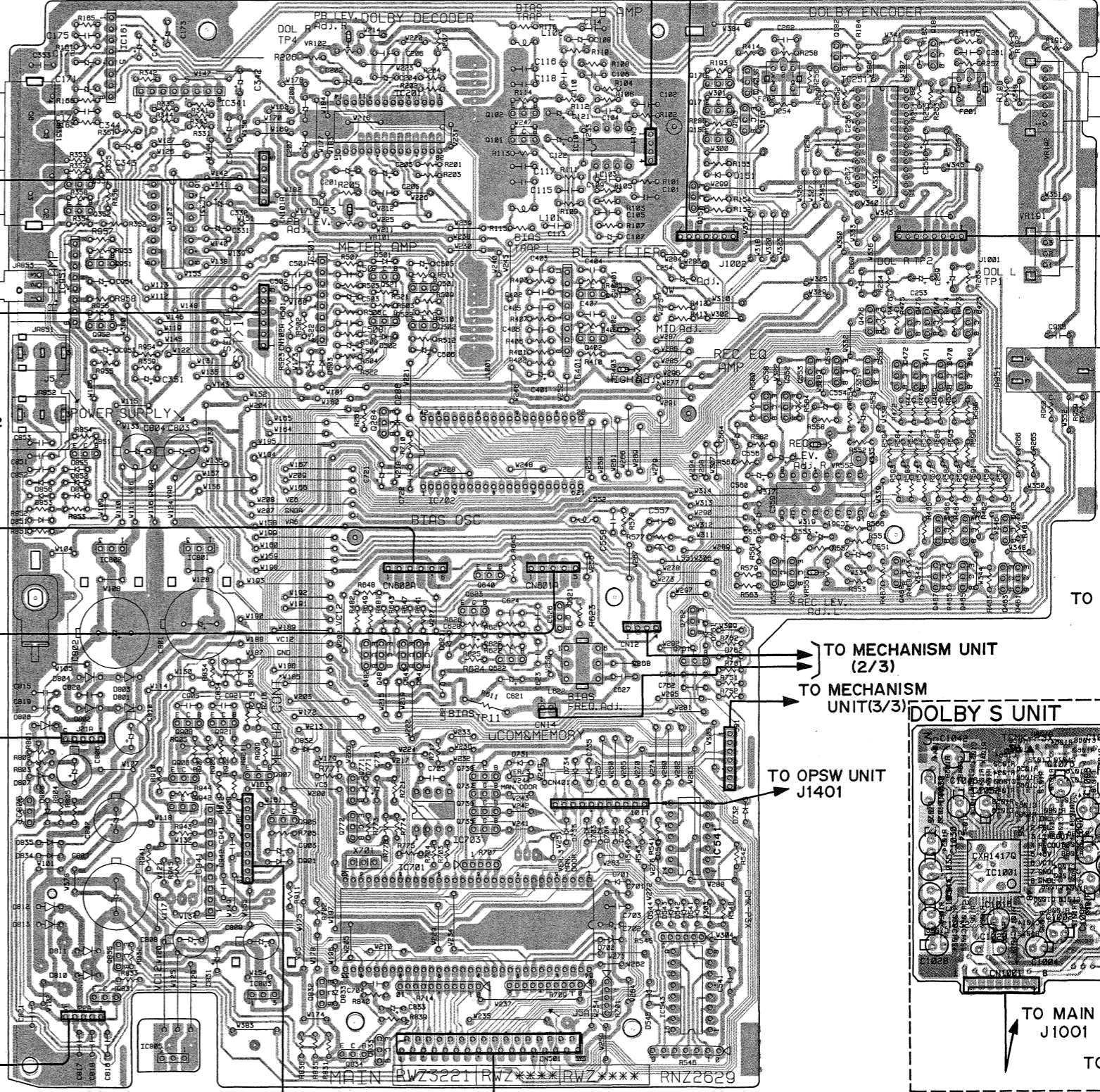


HEM : AC 220-230V  
 50/60Hz  
 HB : AC 230-240V  
 50/60Hz

POWER TRANSFORMER

D

**MAIN UNIT**



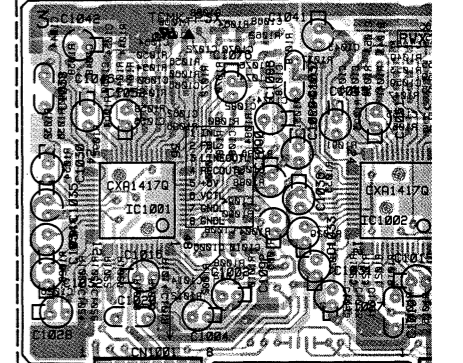
**CT-S53**

- IC161
- Q17
- Q17
- Q102 Q15:
- Q101 IC1C
- Q35
- Q35
- IC951 Q52
- Q52 Q50
- Q4C
- Q5C
- Q4C
- IC4K
- Q55
- Q55
- IC7K

**TO DOLBY S UNIT**

**TO MAIN U**

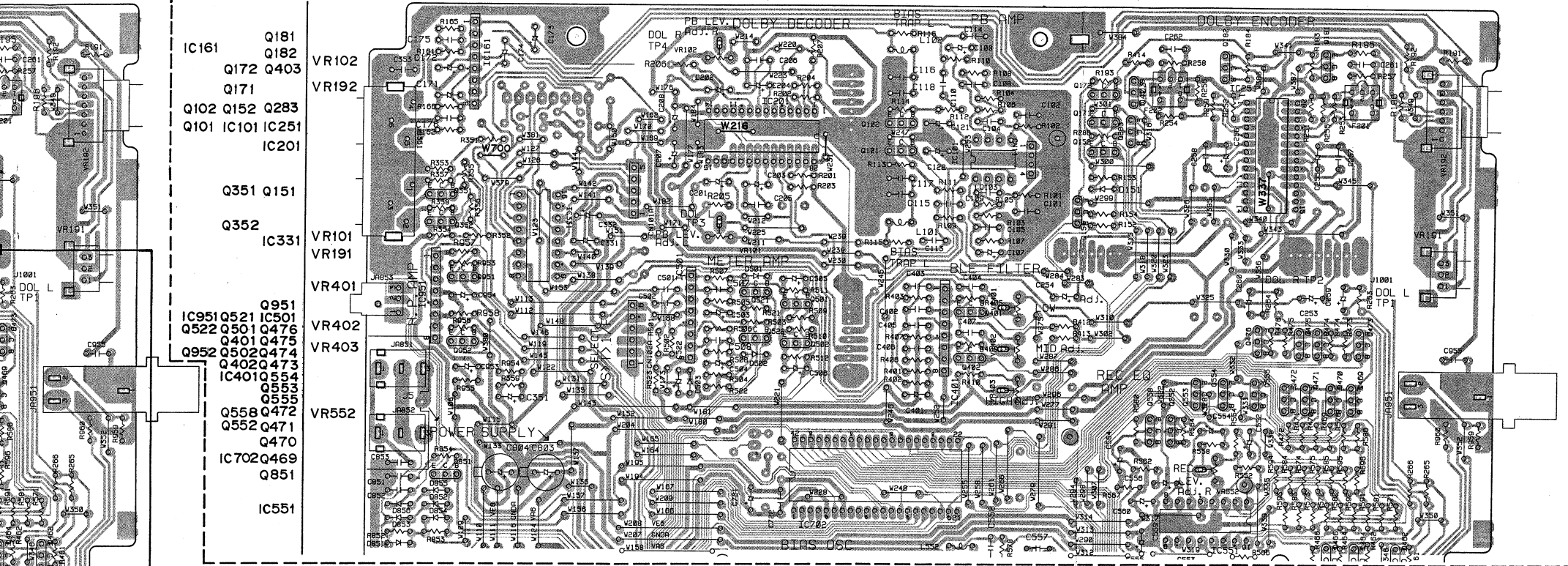
**DOLBY S UNIT**



TO MAIN UNIT J1001  
 TO MAIN UNIT J1002  
**CT-S630S, CT-S630S-G ON**

CT-S530/HEM ONLY

MAIN UNIT

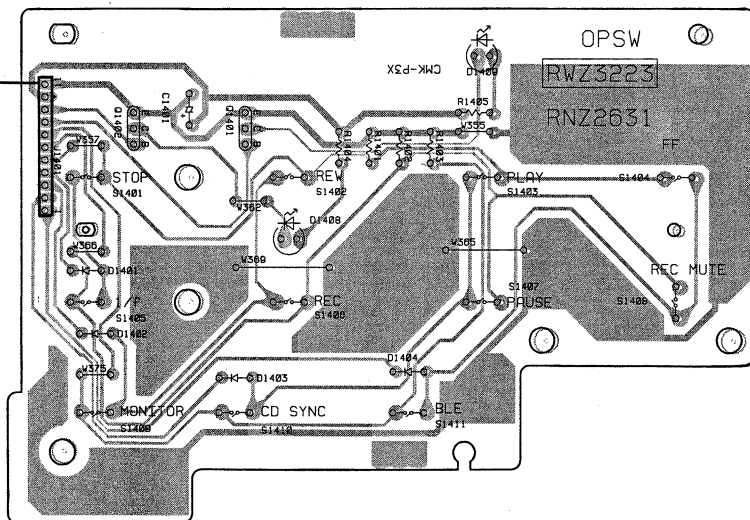


RNP1571-A

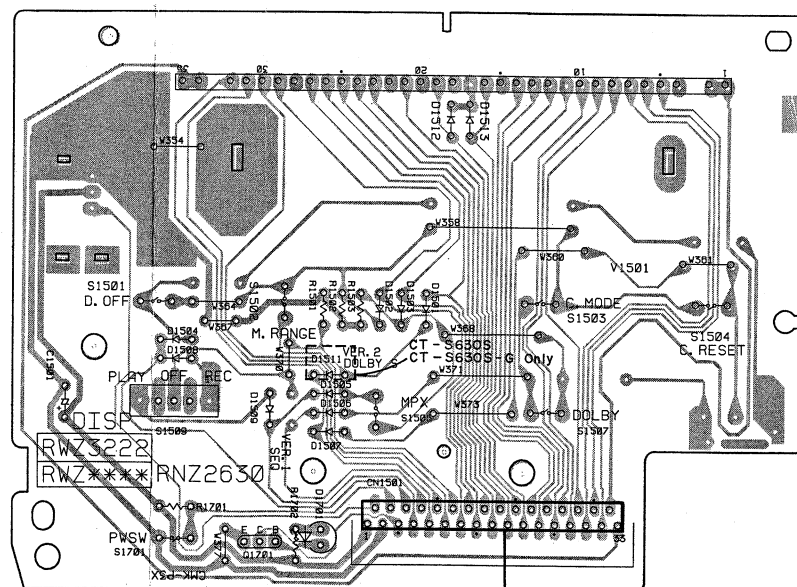
TO DOLBY S UNIT  
CN1001

TO MAIN UNIT  
CN401

OPSW UNIT



DISP UNIT



UNIT

DOLBY S UNIT

TO MAIN UNIT  
J1001

TO MAIN UNIT  
J1002

CT-S630S, CT-S630S-G ONLY

NOTE FOR PCB DIAGRAMS:

1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol in PCB Diagrams	Symbol in Schematic Diagrams	Part Name
<p>Q504</p>	<p>Q504</p>	Transistor
<p>D203</p>	<p>D203</p>	Diode
<p>C513</p>	<p>C513</p>	Capacitor (Polarized)

3. The transistor terminal marked with E or  $\square$  shows the emitter.
4. The diode terminal marked with  $\odot$  or  $\square$  shows cathode side.
5. The capacitor terminal marked with  $\odot$  or  $\square$  shows negative terminal.

NOTE FOR PCB DIAGRAMS:

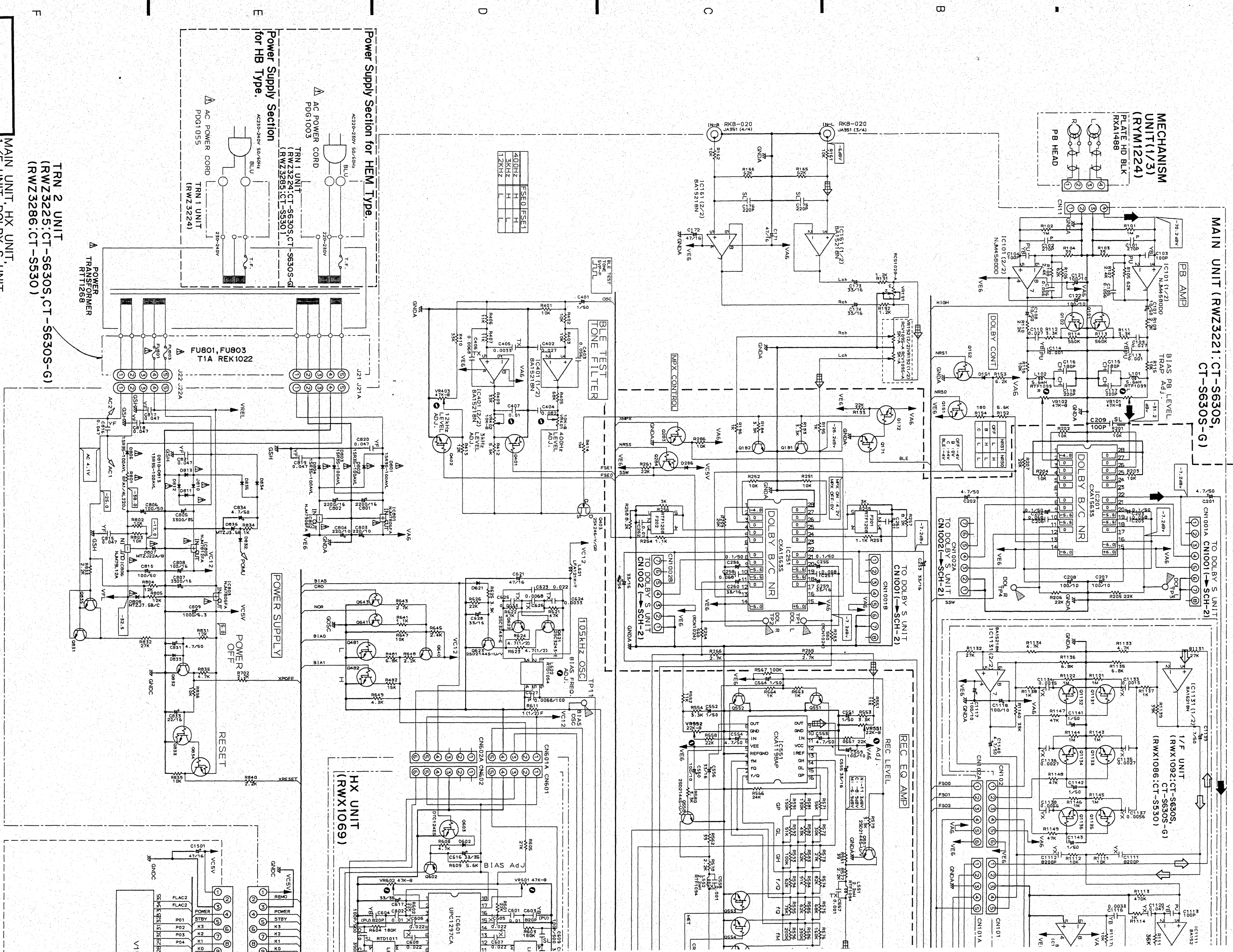
1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol in PCB Diagrams	Symbol in Schematic Diagrams	Part Name
<p>BCE</p>	<p>BCE</p>	Transistor
<p>BCE</p>	<p>BCE</p>	Transistor with resistor
<p>DGS</p>	<p>DGS</p>	Field effect transistor
		Resistor array
		3-terminal regulator



# 2.4 SCHEMATIC DIAGRAM

Refer to SCH-3 for the circuit diagram for this CT-S530 part.



SCH-1

MAIN UNIT, HX UNIT,  
1/2 UNIT, DOLBY S UNIT,  
TRN 1 UNIT, TRN 2 UNIT

TRN 2 UNIT  
(RWZ3225:CT-S630S,CT-S630S-G)  
(RWZ3286:CT-S530)

POWER TRANSFORMER  
RTT1268

FU801, FU803  
T1A REK1022

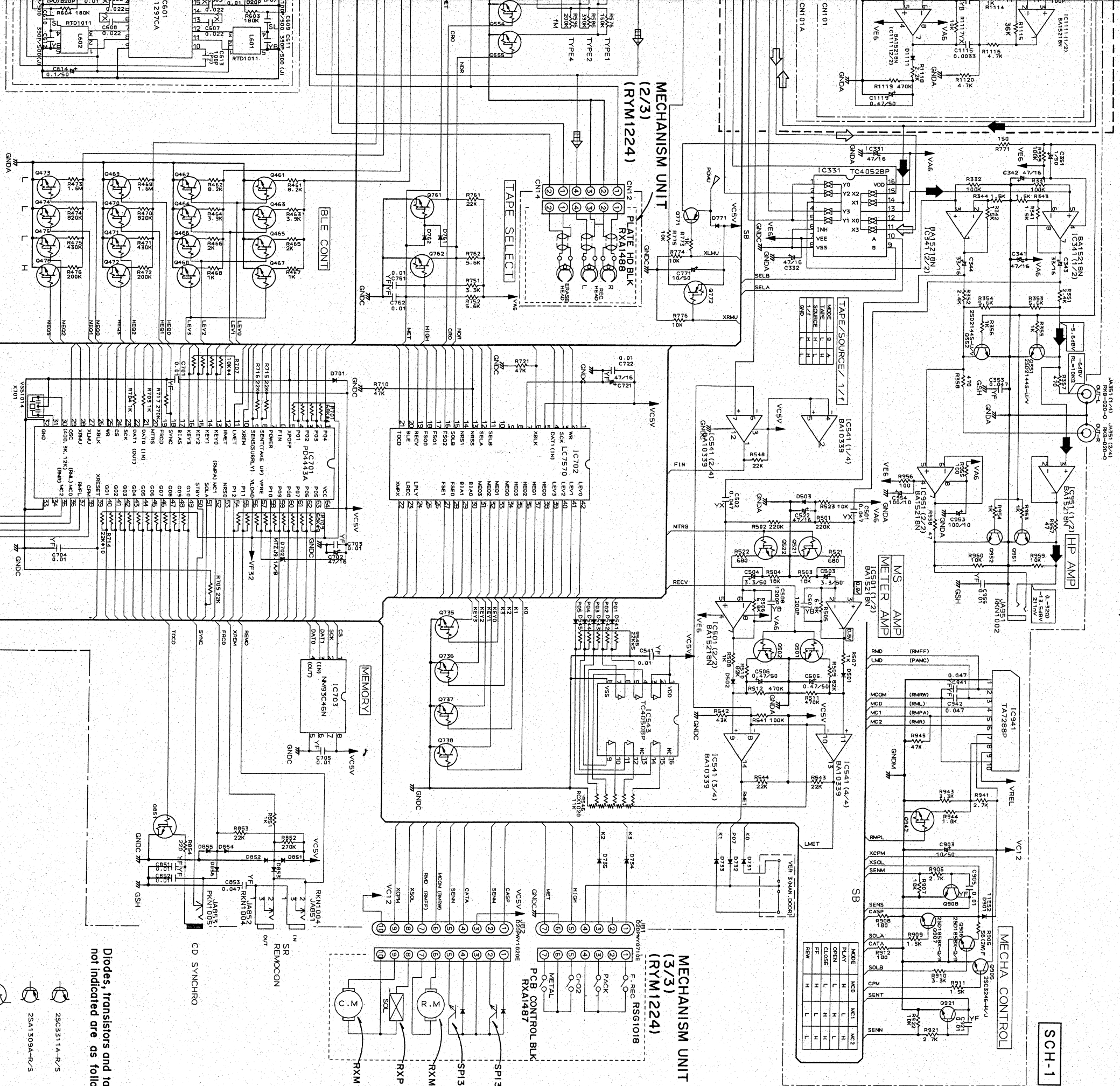
POWER SUPPLY  
POWER OFF  
RESET

HX UNIT  
(RWX10691)

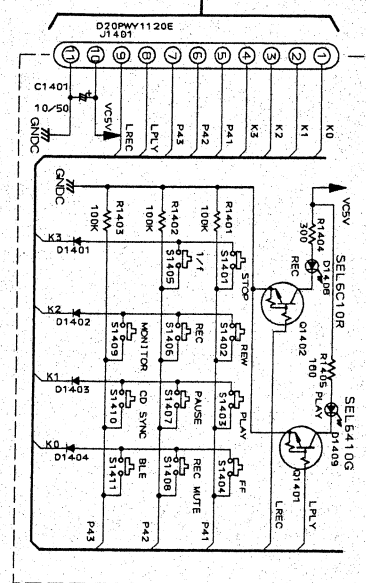
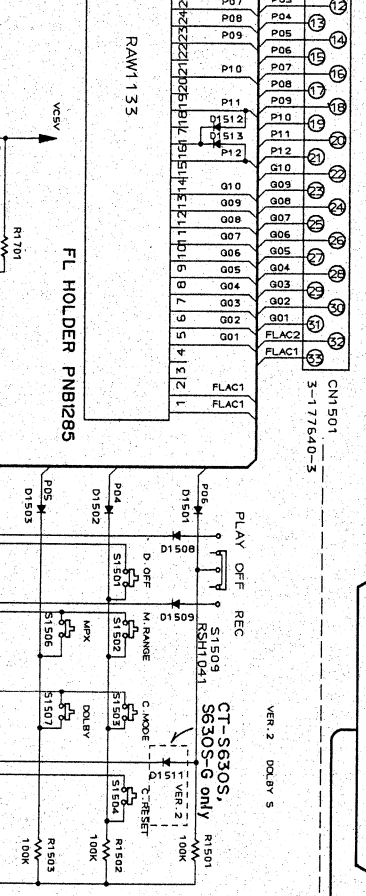
400HZ	FREQ	H	H	H
3KHZ	FREQ	H	H	H
1.2KHZ	FREQ	H	H	H

1 2 3 4





SCH-1



The schematic diagram of the DOLBY S UNIT (RWX1101) is A3-RS16902A.

- 2SC331A-R/S
- 2SA1309A-R/S
- DTC124ES
- DTA124ES
- DTC124TS
- DTA124TS
- 1SS254
- S1401 to S1411, S1506 and S1507 are RS61030
- S1501 to S1504 are RS61034

Diodes, transistors and tact switches not indicated are as follows.

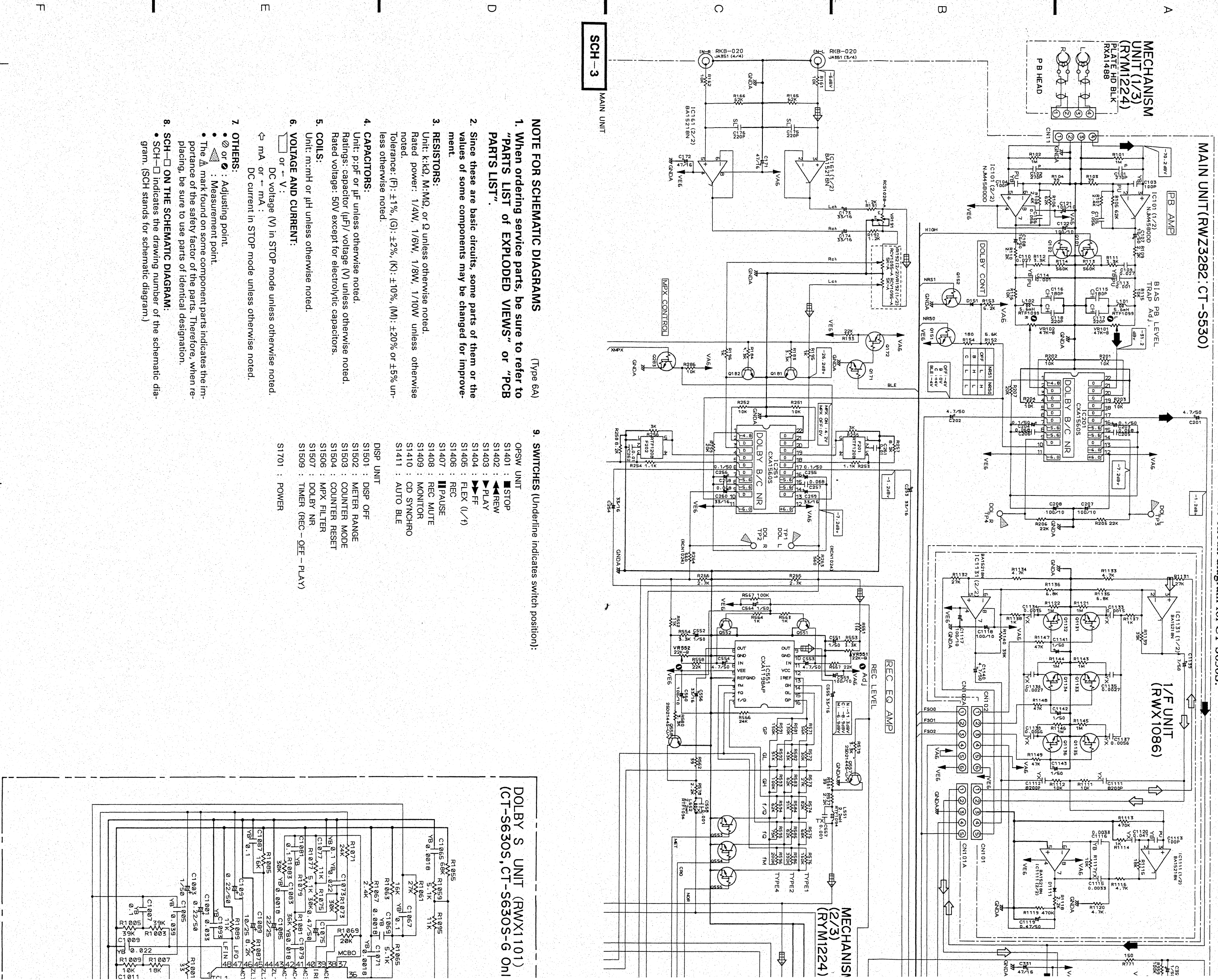
DISP UNIT (PWZ3222, CT-S630S, CT-S630S-G) (PWZ3283, CT-S530)

SIGNAL ROUTE  
 : PLAYBACK SIGNAL  
 : PLAYBACK (FLEX) SIGNAL  
 : RECORDING SIGNAL

MAIN UNIT, HX UNIT, 1/F UNIT, DOLBY S UNIT, DISP UNIT, OPSW UNIT, TRN 1 UNIT, TRN 2 UNIT

SCH-1

Note: This circuit diagram shows the differences between CT-S630S and CT-S530. For other details, refer to the circuit diagram for CT-S630S.



SCH-3 MAIN UNIT

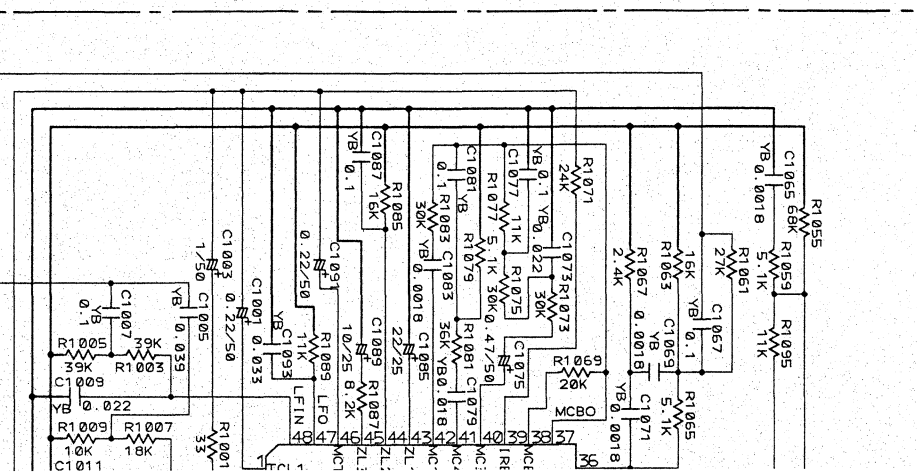
NOTE FOR SCHEMATIC DIAGRAMS (Type 6A)

- When ordering service parts, be sure to refer to "PARTS LIST of EXPLODED VIEWS" or "PCB PARTS LIST".
- Since these are basic circuits, some parts of them or the values of some components may be changed for improvement.
- RESISTORS:**  
Unit: k:Ω, M: MΩ, or Ω unless otherwise noted.  
Rated power: 1/4W, 1/6W, 1/8W, 1/10W unless otherwise noted.  
Tolerance: (F): ±1%, (G): ±2%, (K): ±10%, (M): ±20% or ±5% unless otherwise noted.
- CAPACITORS:**  
Unit: p:pF or μF unless otherwise noted.  
Ratings: capacitor (μF)/voltage (V) unless otherwise noted.  
Rated voltage: 50V except for electrolytic capacitors.
- COILS:**  
Unit: m:mH or μH unless otherwise noted.
- VOLTAGE AND CURRENT:**  
↔ DC voltage (V) in STOP mode unless otherwise noted.  
↔ mA or → mA:  
DC current in STOP mode unless otherwise noted.
- OTHERS:**
  - ◉ or ◊ : Adjusting point.
  - ◡ : Measurement point.
  - Δ The Δ mark found on some component parts indicates the importance of the safety factor of the parts. Therefore, when replacing, be sure to use parts of identical designation.
- SCH-□ ON THE SCHEMATIC DIAGRAM:**
  - SCH-□ indicates the drawing number of the schematic diagram. (SCH stands for schematic diagram.)

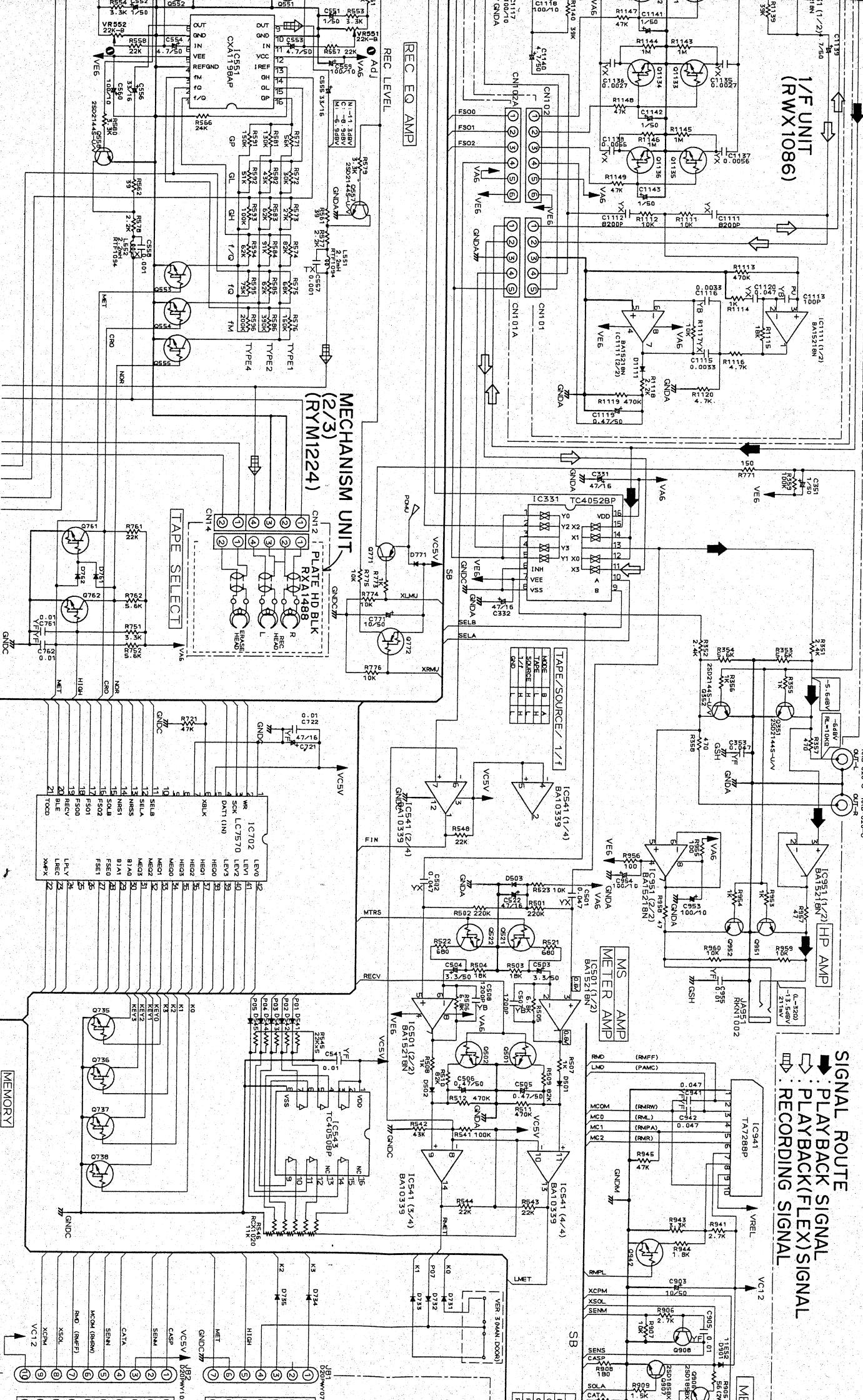
9. SWITCHES (Underline indicates switch position):

- |                                  |  |
|----------------------------------|--|
| OPSW UNIT                        |  |
| S1401 : ■ STOP                   |  |
| S1402 : ◀ REW                    |  |
| S1403 : ▶ PLAY                   |  |
| S1404 : ◀▶ FF                    |  |
| S1405 : ◀▶▶ FLEX (1/f)           |  |
| S1406 : REC                      |  |
| S1407 : ■ PAUSE                  |  |
| S1408 : REC MUTE                 |  |
| S1409 : MONITOR                  |  |
| S1410 : CD SYNCHRO               |  |
| S1411 : AUTO BLE                 |  |
| DSP UNIT                         |  |
| S1501 : DISP OFF                 |  |
| S1502 : METER RANGE              |  |
| S1503 : COUNTER MODE             |  |
| S1504 : COUNTER RESET            |  |
| S1506 : MPX FILTER               |  |
| S1507 : DOLBY NR                 |  |
| S1509 : TIMER (REC - OFF - PLAY) |  |
| S1701 : POWER                    |  |

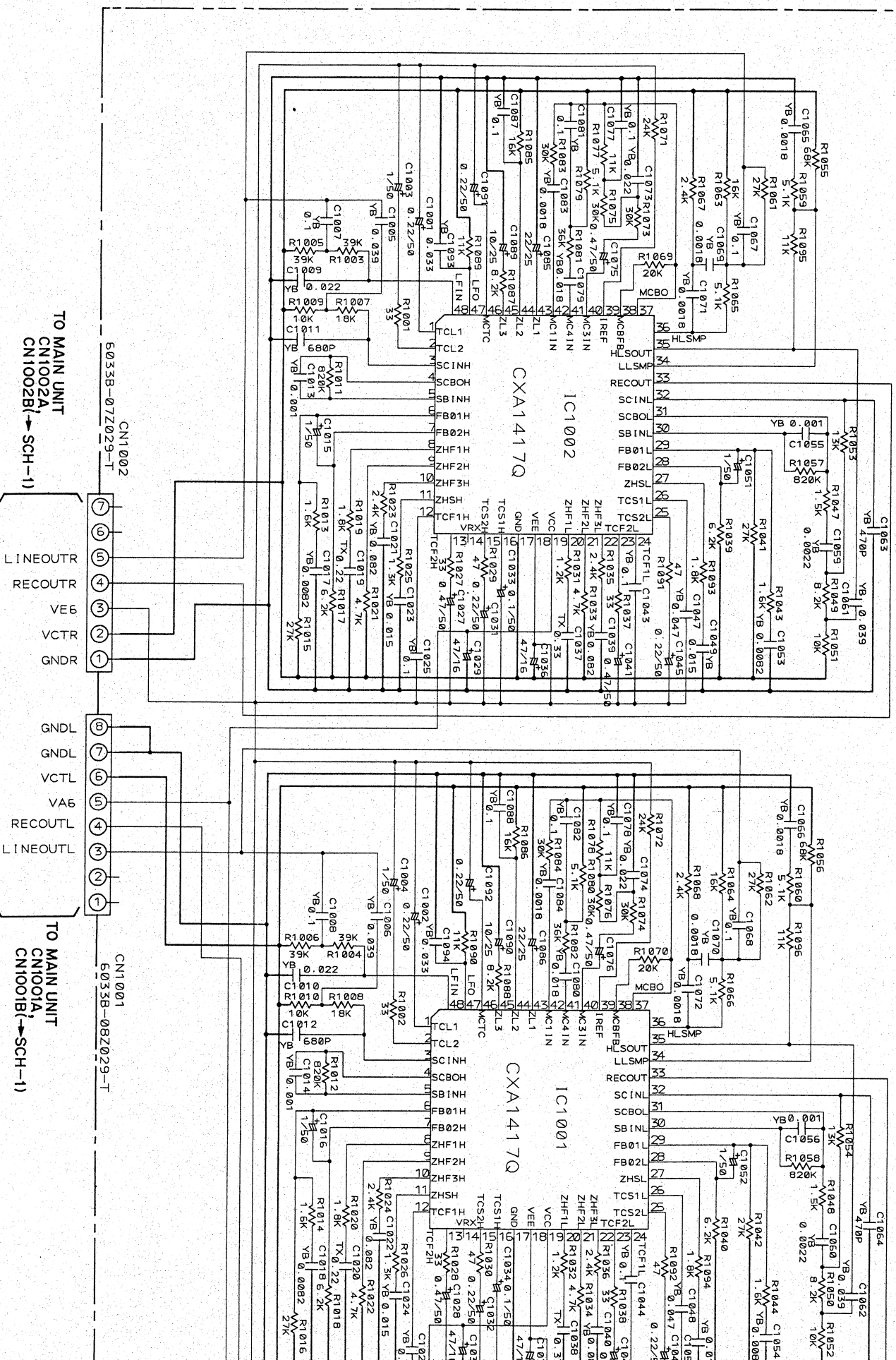
DOLBY S UNIT (RWX1101) (CT-S630S, CT-S630S-G Onl)

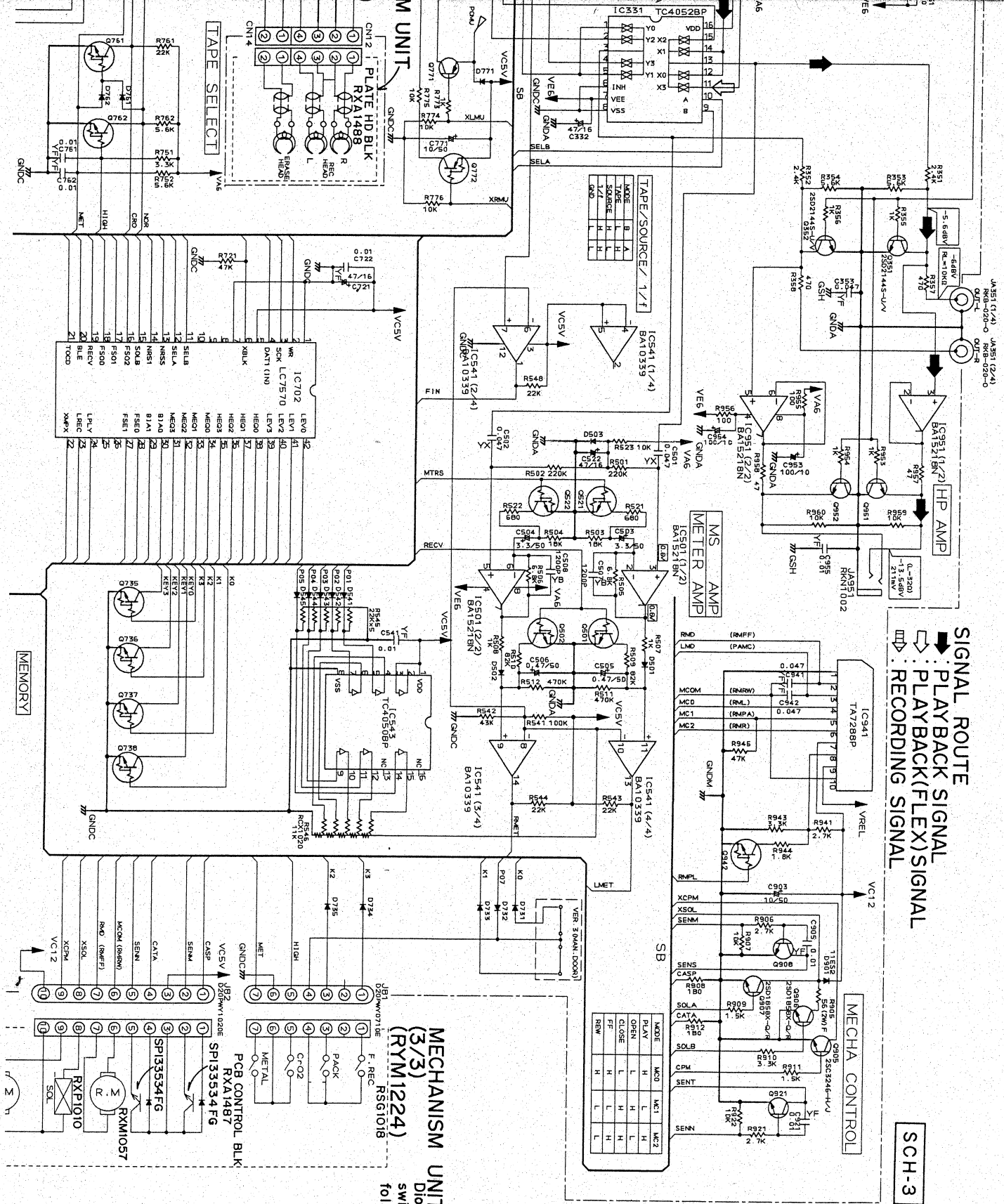


SCH-2 DOLBY S UNIT



**DOLBY S UNIT (RWX1101)**  
(CT-S630S, CT-S630S-G Only)



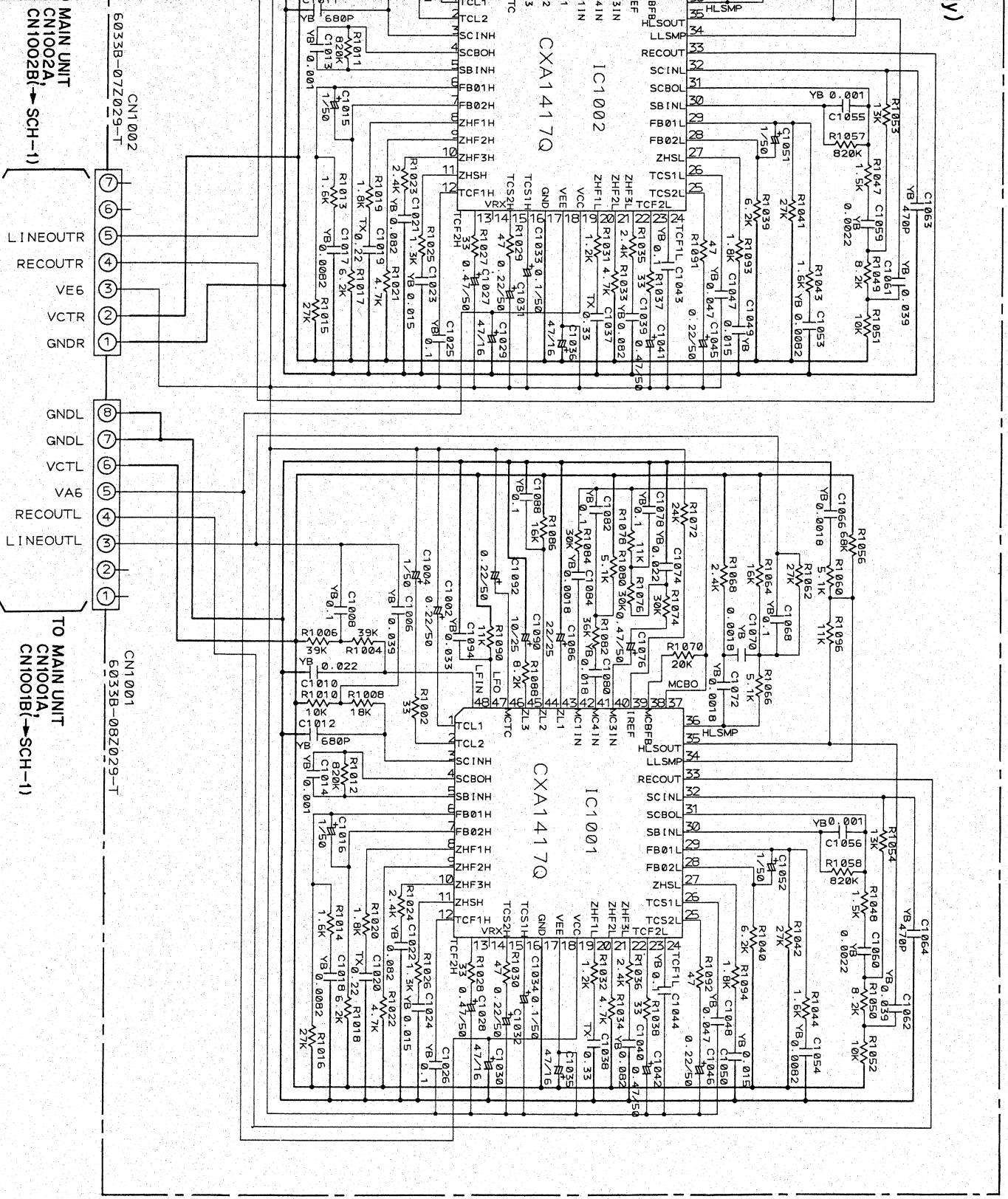


SCH-3

**MECHANISM UNIT**  
 Diodes, transistors and tact switches not indicated are as follows:

- 2SC5311A-R/S
- 2SA1309A-R/S
- DTC124ES
- DTA124ES
- 1SS254
- S1401 to S1411, S1506 and S1507 are RSG1030
- S1501 to S1504 are RSG1034

SCH-2



SCH-2

SCH-3

DOLBY S UNIT

SCH-2

F

E

D

C

B