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ORDER NO. **ARP2431** 

STEREO CASSETTE DECK

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HEM, HB HPW, SD

- Refer to the service manual ARP1980 for CT-337.
- This manual is applicable to CT-S210/HEM, HB, HPW and SD.



# This is the basic schematic diagram, but the actual circuit may vary due to improvements in design.

4. OTHERS:→; Signal route.

3. VOLTAGE CURRENT:

; DC voltage (V) at no input signal.

Value in ( ) is DC current at stop state.

←mA; DC current at no input signal.

capacitor.

Indicated in capacity ( $\mu$  F) /voltage (V) unless otherwise noted p; pF. Indication without voltage is 50V except electrolytic

2. CAPACITORS:

Indicated in  $\Omega$ , 1/4W, 1/6W, 1/8W,  $\pm$ 5% tolerance unless otherwise noted k;k $\Omega$ , M;M $\Omega$ , (F); $\pm$ 1%, (G); $\pm$ 2%, (K); $\pm$ 10%, (M);  $\pm$ 20% tolerance.

1. RESISTORS:

CT-S210

## **CONTRAST OF MISCELLANEOUS PARTS**

### NOTES:

• Parts without part number cannot be supplied.

- The A 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
- Parts marked by "⊙" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

# CT-S210/HEM, HB, HPW, SD and CT-337/HEM have the same construction except for the following:

				Part No.		THE YA	
Mark	Symbol & Description	CT-337/ HEM type	CT-S210/ HEM type	CT-210/ HB type	CT-S210/ HPW type	CT-S210/ SD type	Remarks
	Main unit	Non supply	Non supply	Non supply	Non supply	Non supply	
	Display unit	Non supply	Non supply	Non supply	Non supply	Non supply	
$\triangle$	AC power cord	PDG1003	PDG1003	PDG1036	PDG1006	PDG1013	
Â	Power transformer (AC220–230/230–240V)	RTT1087	RTT1204	RTT1204	RTT1087		
<b>A</b>	Power transformer (AC110/120-127/220/240V)					RTT1088	
				TIMU	YALIGE		
$\triangle$	Line voltage selector (AC110/120-127/220/240V)					PSB1002	8 17 18 18 18 18
	Eject knob	RAC1344	RAC1367	RAC1367	RAC1367	RAC1367	aprysti
	Slide knob (A)	RAC1357	RAC1236	RAC1236	RAC1236	RAC1236	ENV CONTINUENT
	Operation knob	RAC1345	RAC1683	RAC1683	RAC1683	RAC1683	V. TUSKI
	Tact knob	RAC1409					- 100 PM
	DOLBY name plate	RAH1655	RAH1458	RAH1458	RAH1458	RAH1458	DISALISE TO
	Meter panel	RAH1637					0.00.0000
	Meter lens		RAH2004	RAH2004	RAH2005	RAH2005	010100
	Door panel	RAH1638	RAH1994	RAH1994	RAH2036	RAH2036	for Eject kno
	Latch spring		RBH1008	RBH1008	RBH1008	RBH1008	
	Control cord	RDE1018					
	Control cord (Mini)		PDE-319	PDE-319			
	Packing case	RHG1177	RHG1329	RHG1329	RHG1329	RHG1329	
	Bonnet	RXX1079	RXX1396	RXX1396	RXX1396	RXX1396	
	Front panel assembly	RXX1323	RXX1492	RXX1492	RXX1473	RXX1473	
	Leg assembly	g			REC-369	REC-369	
	Insulator	VNK1095	VNK1095	VNK1095			
	Stopper	VEC1061	VEC1061	VEC1061			100000000000000000000000000000000000000
	Operating instructions (English)	RRB1063		RRB1108	RRB1108	RRB1108	
	Operating instructions (English/Spanish)	RRD1073				RRD1119	
	Operating instructions (English/French/ German/Italian/Dutch/Swedish/Spanish/ Portuguese)		RRE1055				

### MAIN UNIT

Main unit of CT-S210/HEM, HB, HPW, SD and main unit of CT-337/HEM have the same construction except for the following:

			Part No.		
1ark	Symbol & Description	CT-337/ HEM type	CT-S210/HEM and HB types	CT-S210/HPW and SD types	Remarks
	IC301, 1001, 1601	M5218L	BA15218N	BA15218N	
	IC801	UPC1297CA	UPC1297CA		
	D801, 802	1SS252	1SS252		
	D1102-1104		1SS252		
	D1110-1112	1SS252			
	Q801, 802	2SA1309A	2SA1309A		
	Q803	DTC124ES	DTC124ES		
	Q1150	DTC124ES			
	L301, 302	RTF1102	RTF1004	RTF1004	
	L601	LRA121K	LFA121K	LFA121K	
	The state of the s				
	L602	RTD1039	RTD1039	RTD1017	
	L801, 802	RTD1030	RTD1030		
	C313, 314	CEAS4R7M50	CEANL4R7M25	CEANL4R7M25	
	C601, 602			CCCSL101K500	
	C801, 802	CGCYX103K25	CGCYX103K25		
	C803, 804	CKUYB821K50	CKUYB821K50		
	C805, 806	CFTXA223J50	CFTXA223J50		
	C807, 808	CGCYX473K25	CGCYX473K25		
	C809, 810	CCCSL101K500	CCCSL101K500		
	C811, 812	CKCYB471J500	CKCYB471J500		
	C813	CKPUYB101K50	CKPUYB101K50	616	
	C814	CEASR10M50	CEASR10M50		
	C816	CEAS4R7M50	CEAS4R7M50		
	C819, 815	CEAS100M50	CEAS100M50		
	C1110	CKCYF473Z50			
	C1105	4 34.0	CKCYF103Z50	34	
	C1111, 1113	CKCYF103Z50		· · · · · ·	
	C1112	CEAS010M50			
	R651	RD½LF331J	RD½LF331J	RD½LF201J	
	R652	RD½LF221J	RD½LF221J	RD½LF151J	
	R801, 802	RD 1/6 PM223J	RD 1/6 PM223J		
	R803,804	RD 1/6 PM184J	RD 1/6 PM184J		
	R805	RD 1/6 PM153J	RD 1/6 PM153J		
	R806	RD 1/6 PM223J	RD 1/6 PM223J		
	R807, 808	RD 1/6 PM472J	RD 1/6 PM472J		
	R809	RD 1/6 PM103J	RD 1/6 PM103J	ET Process Toll	
	R1003, 1004	RD 1/6 PM392J	RD 1/6 PM472J	RD 1/6 PM472J	
	R1150	RD 1/6 PM274J	RD 1/6 PM274J		
	VR601, 602			VRTB6VS104	
	VR801, 802 (22k)	RCP1035	RCP1035		
	CNIII	DTMVOED 4D	DTMV04D 4D	PTMV04D 4D	
	CN112	BTMK05P-1R	BTMK04P-1R	BTMK04P-1R	
	CN113	BTMK11P-1R	BTMK10P-1R	BTMK10P-1R	
	J201	RDD1196			
	J202 JA1101, 1102		RKN1004	KPC3	
	Constant to				

#### DISPLAY UNIT

Display unit of CT-S210/HEM, HB, HPW, SD and display unit of CT-337/HEM have the same construction except for the following:

		Part No.			
Mark	Symbol & Description	CT-337/	CT-210/HEM	CT-210/HPW	Remarks
	一 一	HEM type	and HB types	and SD types	
	Q2451	2SA1309A	***************************************		
	Q2468	2SC3311A			
	D2401	SEL4310E	SEL4310E	SEL4914A	
	D2403-2412	SEL4310E	SEL4310E	SEL4914A	
	D2413, 2414	SEL4214S	SEL4310E	SEL4914A	
	D2419, 2420	SEL4310E	SEL4310E	SEL4914A	
	D2421, 2422	SEL4214S	SEL4214S		
	D2423	SEL4214S			
	D2431	1SS254			
	R2414, 2415	RD 1/6 PM331J	RD 1/6 PM331J		
	R2416	RD 1/6 PM331J			
	R2428	RD 1/6 PM332J			
	S2308	RSG-155	mor offere.		

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CT-S210 SCHEMATIC DIAGRAM LINE IN/OUT RKB1001 JA201 (4/4) JA201 (3/4) JA201 (2/4) DOLBY B/C NR Lch LINE IN VA12 IC1601 (1/2) H. PHONE AMP H. PHONE UNIT 1 C241 0.01 YF GSH J1601 J1601A MECHA UNIT (2/3) 6.2K 6.2K 8.2K 8.2K 0.1/50 IC201 METER VC5V CXA1330S IC1001 (1/2) BA15218N DOLBY B/C NR IC1002 (1/2) M5233L IC1103 TC4050BP IC1002 (2/2) -11.2dBV REC AMP N:-3.6dBV C:-1.2dBV M:+0.8dBV IC301 (1/2) BA15218N REC LEVEL Adj D2401.2403~2414. D2419.2420 : SEL4310E (GRN) -------HEM. HB : SEL4914A (ORG) -------HPW. SD IC1101 34 S7 W7 7 33 LINE MUT 32 REC MUT CN113A CN113 3TMK105-15 BTMK10P-1F 1 1 1 11 2 2 T0 D2402.2415~2418.D2421~2423 : SEL4214S (RED) M.S 31 BIAS IC401 BA335 5 1C301 (2/2) GNOA 27 SOLAT 26 SOLB 25 KEYO MECHA UNIT E.HEAD D HEM, HB HPW, SD

B OPEN USED

B OPEN USED CN203J203 HEM and HB DISPLAY UNIT RCV1063 CN202 J202 MECHA UNIT (1/3) IC801 UPC1297CA TAPE VR 10K-B JA1102 RKN1004 POWER SW UNIT HEM. HB. HPW AC220~230/230~240V 50/60HZ R5H1014 S2001 MAIN UNIT J1203 J1203A CN1101 J1101A TIMER UNIT FU1201,1202: T1.25A/250V (HEM.HB.SD.HPW A POWER TRANSFORMER SD AC110/120~127/220/240 50/60HZ HEM, HB: RTT1204 HPW : RTT1087 SD : RTT1088 NOTE; If the parts are not identified in the diagram + 188254 the followings are used. AC POWER CORD 2SC3311A DTC125ES or XDC12 PDG1013 🛕 2SA1309A or XDC124ES Published in Feiloo, Holland.

### View from component side

#### Line Voltage Selection

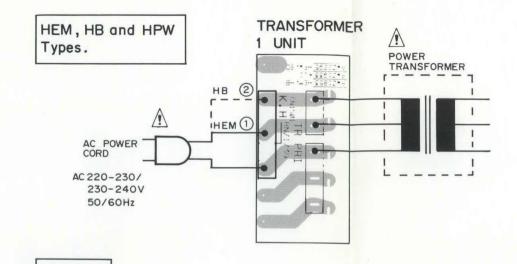
Line voltage can be changed with the following steps.

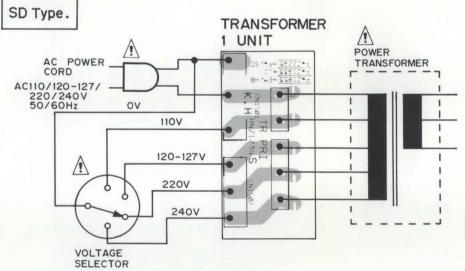
- 1. Disconnect the AC power cord.
- Remove the Bonnet case.
- 3. Change the connection of the TRANSFORMER 1 UNIT assembly primary pins.

	Voltage				
1	220 – 230 V				
2	230 - 240 V				

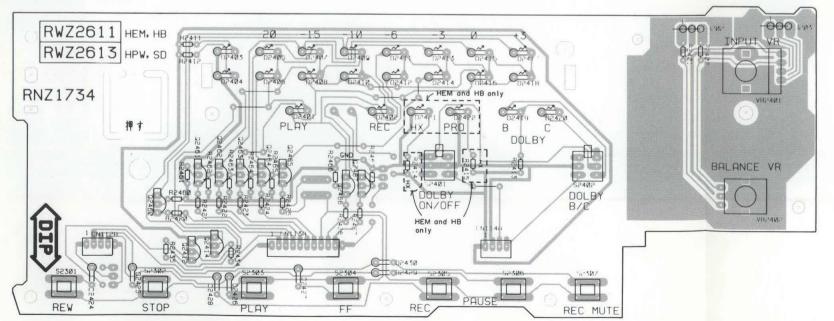
4. Stick the line voltage label on the rear panel.

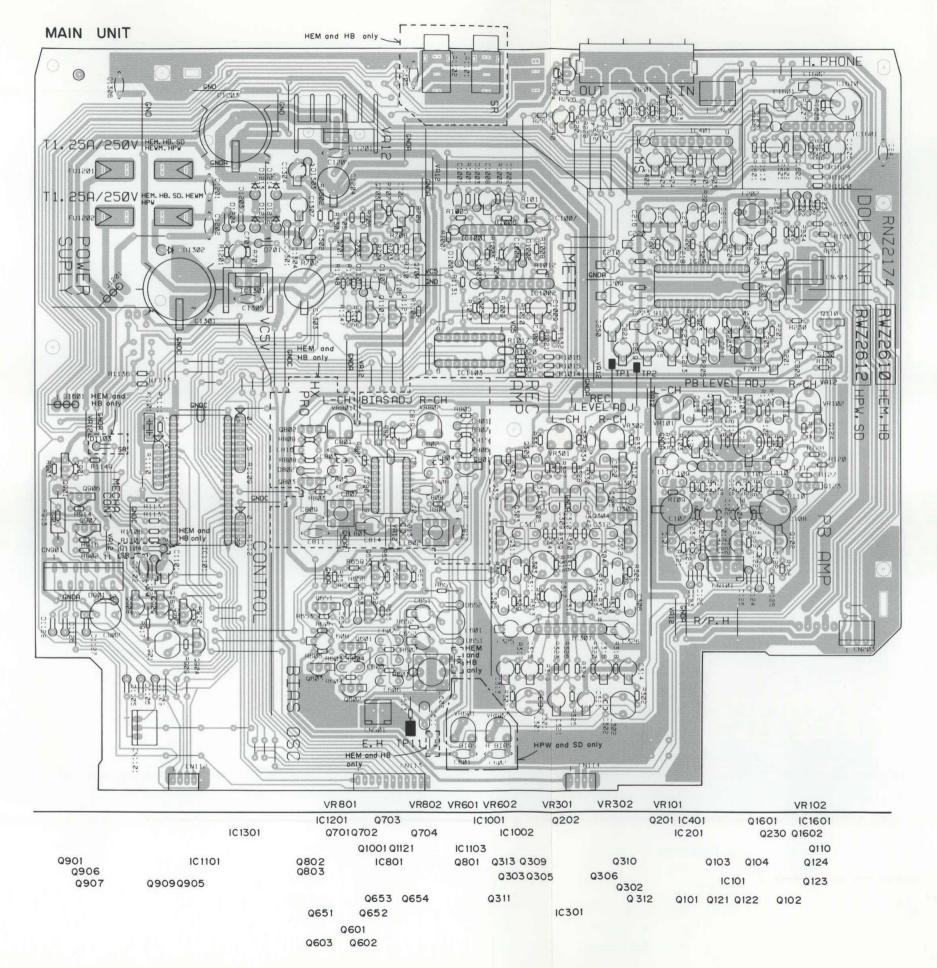
Parts No	Description
AAX-193	220 V label
AAX-192	240 V label





#### DISPLAY UNIT





C.B. pattern diagram indication	Corresponding part symbol	Part name
	of E	Transistor
D S G	Or O	FET
	o—	Diode
¢=	<b>○</b>	Zenner diode
74-	~ <del>`</del>	LED
	<b>○</b>	Varactor
	0 0	Tact switch
	••••	Inductor
0	•~~	Coil
2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Transformer
		Filter
( _ )		Ceramic capacitor
$C \supset$		Mylar capacitor
s( )		Styrol capacitor
à C	o—₩o	Electrolytic capacitor (Non polarized)
<b>□</b>		Electrolytic capacito (Noiseless)
(+)	o ₩ <sup>+</sup> o	Electrolytic capacito (Polarized)
Õ		Electrolytic capacito (Polarized)
	0-11-0	Power capacitor
D	• • • •	Semi-fixed resistor
		Resistor array
		7
~	~-W	Resistor
-		
[HDF]	<b>⊶</b> □ <b>⊢</b> ∘	Resonator
	·-(w)-	Thermistor

those shown with the corresponding wiring symbols listed in the at 3. The capacitor terminal marked with \( \subseteq \text{shows negative terminal.} \)
4. The diode marked with \( \Omega \), shows cathode side.
5. The transistor terminal marked with \( \subseteq \) shows emitter.

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CT-S210 • View from soldering side MAIN UNIT HEM and HB only TRANSFORMER HEM, HB and HPW 1 UNIT Types. POWER TRANSFORMER Line Voltage Selection Line voltage can be changed with the following steps. AC POWER 1. Disconnect the AC power cord. 2. Remove the Bonnet case. 3. Change the connection of the TRANSFORMER | UNIT AC 220-230/ assembly primary pins. 230-240V 50/60Hz Voltage  $220-230\ V$ 1 230-240 V SD Type. TRANSFORMER 4. Stick the line voltage label on the rear panel. POWER TRANSFORMER TINU Parts No Description AC POWER \_ AAX-193 | 220 V label AC110/120-127/ 220/240V 50/60Hz VO AAX-192 240 V label 110V 120-127V Free service manuals Gratis schema's Digitized by VOLTAGE SELECTOR www.freeservicemanuals.info DISPLAY UNIT RWZ2611 нем. нв RWZ2613 HPW. SD RNZ1734 BALANCE VR VR301 VR302 VR802 VR601 VR602 VR801 **VR102 VR101** IC1201 101601 01601 020110401 0703 07010702 IC1301 Q704 0230 01602 IC 201 0100101121 0110 IC1103 Q901 Q906 10801 Q802 Q803 0801 0313 0309 0124 9306 Q303Q305 0123 09090905 0907 9302 Q653 Q654 9312 0652 9651 10301 0601 0603 0602 Published in Heiloo, Holland.