

Service Manual

ORDER NO.
ARP2679

STEREO DOUBLE CASSETTE DECK

CT-W402R CT-W420R

- Refer to the service manual ARP2696, CT-W502R/KUXJ.

CT-W402R AND CT-W420R HAVE THE FOLLOWING:

Type	Model		Power Requirement	Remarks
	CT-W402R	CT-W420R		
KUXJ	○	-	AC120V only	
HEM	-	○	AC220 - 230V, 230 - 240V (Switchable) *	
HB	-	○	AC220 - 230V, 230 - 240V (Switchable) *	
HBXJ	-	○	AC220 - 230V, 230 - 240V (Switchable) *	
HEMXJ	-	○	AC220 - 230V, 230 - 240V (Switchable) *	

* Change the connection of the power transformer's primary wiring.

- This manual is applicable to the following: CT-W402R/KUXJ ;CT-W420R/HEM,HB, HBXJ and HEMXJ.

CT-W402R, CT-W420R

1. CONTRAST OF MISCELLANEOUS PARTS

NOTES:

- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
- The Δ 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 " \odot " 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 Ω \rightarrow $56 \times 10^1 \rightarrow$ 561 RD1/8PM $\boxed{5} \boxed{6} \boxed{1} \text{J}$
 47k Ω \rightarrow $47 \times 10^3 \rightarrow$ 473 RD1/4PS $\boxed{4} \boxed{7} \boxed{3} \text{J}$
 0.5 Ω \rightarrow 0R5 RN2H $\boxed{0} \boxed{R} \boxed{5} \text{K}$
 1 Ω \rightarrow 010 RSIP $\boxed{0} \boxed{1} \boxed{0} \text{K}$

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

5.62k Ω \rightarrow $562 \times 10^1 \rightarrow$ 5621 RN1/4PC $\boxed{5} \boxed{6} \boxed{2} \boxed{1} \text{F}$

1.1 CONTRAST OF MISCELLANEOUS PARTS

CT-W402R/KUXJ, CT-W420R/HEM, HB, HBXJ, HEMXJ and CT-W502R/KUXJ have the same construction except for the following:

Mark	Symbol & Description	Part No.						Remarks
		CT-W502R/ KUXJ	CT-W402R/ KUXJ	CT-W420R/ HEM	CT-W420R/ HB	CT-W420R/ HBXJ	CT-W420R/ HEMXJ	
NSP	Mother unit	RWM1581	RWM1597	RWM1598	RWM1598	RWM1598	RWM1598	
	Main unit	RWZ2823	RWZ2843	RWZ2846	RWZ2846	RWZ2846	RWZ2846	
	Display unit	RWZ2825	RWZ2844	RWZ2847	RWZ2847	RWZ2847	RWZ2847	
NSP	Transformer 1 unit	RWZ2941	RWZ2941	RWZ2930	RWZ2930	RWZ2930	RWZ2930	
NSP	Transformer 2 unit	RWZ2827	RWZ2845	RWZ2848	RWZ2848	RWZ2848	RWZ2848	
NSP	LED unit	.....	.....	RWZ2932	RWZ2932	RWZ2932	RWZ2932	
Δ	Strain relief	CM - 22C	CM - 22C	CM - 22B	CM - 22B	CM - 22B	CM - 22B	
Δ	AC power cord	PDG1015	PDG1015	PDG1003	VDG1051	VDG1051	PDG1003	
Δ	Power transformer (AC120V)	RTT1223	RTT1223	.....	.....	.....	.....
Δ	Power transformer (AC220 - 230/230 - 240V)	.....	.....	RTT1224	RTT1224	RTT1224	RTT1224	
	BS pin cap	.....	.....	.....	VEC1616	VEC1616	.....	for AC power cord
Δ	FU1, FU2 Fuse (UL1.5A)	DEK1014	DEK1014	.....	.....	.....	.....
Δ	FU1, FU2 Fuse (T1.6A)	.....	.....	REK1024	REK1024	REK1024	REK1024	
\odot	Mechanism unit (DECK I)	RYM1198	RYM1202	RYM1198	RYM1198	RYM1198	RYM1198	
	Knob	RAC1783	RAC1790	RAC1784	RAC1784	RAC1784	RAC1784	
	FL lens	RAH2179	RAH2215	RAH2216	RAH2216	RAH2216	RAH2216	
	Front panel	RAH1281	RAH2204	RAH2182	RAH2182	RAH2182	RAH2182	
	Door pocket L	RAH2183	RAH2212	RAH2183	RAH2183	RAH2183	RAH2183	
	Door pocket R	RAH2184	RAH2184	RAH2185	RAH2185	RAH2185	RAH2185	
	Foot assembly	PXA1201	PXA1201	.....	.....	.....	.....
	Insulator	.....	.....	PNW1912	PNW1912	PNW1912	PNW1912	for foot
	Rubber sheet	AEB1111	AEB1111	.....	.....	.....	.....
	LED lens	.....	.....	PNW2019	PNW2019	PNW2019	PNW2019	
NSP	Rear panel	RNA1702	RNA1704	RNA1665	RNA1666	RNA1672	RNA1671	
NSP	Mechanism shield plate	RNE1519	.....	RNE1519	RNE1519	RNE1519	RNE1519	
NSP	Main chassis	RNB1091	RNB1091	RNB1089	RNB1089	RNB1091	RNB1091	
	Sheet	Z23 - 007	Z23 - 007	RHX - 034	RHX - 034	Z23 - 007	Z23 - 007	
	Packing case	RHG1480	RHG1482	RHG1435	RHG1436	RHG1443	RHG1442	
	Spacer A	.....	.....	.....	RHC1032	RHC1032	.....
	Spacer B	.....	.....	.....	RHC1033	RHC1033	.....	for packing
	Operating instructions (English)	RRB1127	RRB1127	.....	RRB1130	RRB1127	.....
	Operating instructions (English/French/German/Italian/Dutch/Swedish/Spanish/Portuguese)	.....	.....	RRE1075	.....	.....	RRE1075	

CT-W402R, CT-W420R

Mark	No.	Description	Part No.
	C141, C142, C321, C323, C459, C513, C705, C713, C1024		CEAS470M16
	C1007		CEAS472M16
	C1011		CEAS472M25
	C117, C118, C313, C314		CEAS4R7M50
	C664		CEASR10M50
	C265, C266, C275, C315, C316, C917, C918		CEASR22M50
	C267, C268, C273, C274		CEASR33M50
	C293, C294		CFTXA103J50
	C261-C264		CFTXA222J50
	C191, C192, C454		CFTXA223J50
	C311, C312		CFTXA472J50
	C113, C114		CFTXA822J50
	C515		CGCYF104Z25
	C651, C652		CGCYX103K25
	C305, C306		CGCYX123K25
	C307, C308		CGCYX153K25
	C655, C656		CGCYX223K25
	C309, C310		CGCYX272K25
	C319, C320, C455-C457		CGCYX332K25
	C657, C658		CGCYX473K25
	C303, C304		CGCYX562K25
	C509, C510, C514, C1300, C1302		CKCYF103Z50
	C126, C139, C706, C709, C756, C911, C921, C1008, C1020-C1022, C1030, C1201-C1204, C1301, C1701		CKCYF473Z50
	C135-C138, C663, C701, C702, C711, C712, C723, C724		CKPUYB101K50
	C105, C106		CKPUYB102K50
	C301, C302		CKPUYB221K50
	C103, C104, C217, C218		CKPUYB271K50
	C123, C124		CKPUYB391K50
	C121, C122		CKPUYB471K50
	C101, C102, C133, C134, C801, C851		CKPUYB681K50
	C653, C654, C923, C924		CKPUYB821K50
	C453		CQPA752J100
	C661, C662 (C-430P, V(DC)-500)		RCG1005
RESISTORAS			
	R518 (68K)		RA11T683J
	R1701 (22K)		RA5T223J
	R512 (68K)		RA6T683J
	R341, R342 (560Ω)		RCN1024
	R1702 (11K/22K)		RCX1020
	R510 (22K)		RCX1041
	R501 (47K)		RCX1045
	R528 (10K)		RCX1049
	R451		RD1/2LF010J
	R468		RD1/2LF100J
	R1001		RD1/2PMF152J
	R461		RD1/2LF680J
	R1020 (47Ω)		RFA1/4L470J
	R1002 (470Ω)		RS2LMF471J
	VR851 (10K)		RCP1045
	VR101-VR104, VR301, VR302, VR651, VR652 (22K)		RCP1046
	VR802, VR852 (15K)		RCP1090

Mark	No.	Description	Part No.
	VR2002 (5K)		RCV1089
	OTHER RESISTORS		RD1/6PM□□□J
OTHERS			
	CN1503 CONNECTOR (35P)		52045-3545
	CN801 CONNECTOR (12P)		KPE12
	CN851 CONNECTOR (14P)		KPE14
	JA1300 MINI JACK		PKN1005
	JA701 PIN JACK (4P)		RKB-020
	JA1301, JA1302 REMOTE CONTROL JACK		RKN1004
	X501 CERAMIC RESONATOR (4.19MHz)		VSS1014
	CN101, CN102		B3B-EH
	CN451		B2B-EH

MAIN UNIT (FOR CT-W420R/HEM, HB, HEMXJ AND HBXJ TYPES)

SEMICONDUCTORS

	IC701, IC902		BA15218
	IC301, IC1601		BA15218N
	IC101		CXA1115BP
	IC251		CXA1330S
△	IC1003, IC1004		NJM7812FA
△	IC1002		NJM78M05FA
	IC501		PD4442A
	IC1701		TC4050BP
	IC903		XRA10393N
△	Q1001		2SA1286
	Q513, Q802, Q808, Q809, Q852, Q858, Q1005, Q1010		2SA1309A
	Q460, Q461, Q804, Q854		2SB1238X
	Q456-Q458		2SC1815
	Q163, Q164, Q1006, Q1007		2SC3311A
	Q807, Q857		2SD1858X
	Q309-Q312, Q701, Q702		2SD2144S
	Q161, Q162		2SK373
	Q165		DTA114ES
	Q508, Q751		DTA114TS
	Q108, Q454, Q455, Q904		DTC114TS
	Q101-Q106, Q109, Q167, Q256, Q301-Q308, Q313, Q503-Q507, Q511, Q512, Q514, Q803, Q805, Q853, Q855, Q903		DTC124ES
△	D1001		1SR35-100A
△	D1006		1SR35-100AVL
	D452, D453, D801, D812		1SS252
	D161-D166, D251, D503-D506, D508, D509, D514-D518, D520, D521, D523-D526, D752, D802, D805-D811, D813-D818, D901-D903, D1009, D1010, D1011, D1300-D1305, D1701-D1705		1SS254
△	D1002		MTZJ22A
	D1004		MTZJ3. 3B
	D753		MTZJ3. 9B
	D1003		MTZJ5. 1B
	D501		MTZJ9. 1A
△	D1012		S2VB20

CT-W402R, CT-W420R

Mark No.	Description	Part No.
SWITCHES		
△ S1201		RSA1002
COILS AND FILTERS		
L451		LFA121K
L452 (F=105K)		RTD1068
L101, L102 (L=562J)		RTF1099
L301, L302 (L=103J)		RTF1102
L303, L304 (L=123J)		RTF1124
F251, F252		RTF1208
CAPACITORS		
C461, C462		CCSSL101K500
C161, C162		CCPUSL100J50
C107-C110		CEANL100M16
C111, C112		CEANL101M10
C251-C254, C322, C325, C326, C703, C704		CEAS010M50
C209, C210, C269, C281-C284, C317, C318, C707, C708, C1016		CEAS100M50
C291, C1603, C1604		CEAS101M16
C1010		CEAS102M10
C1018		CEAS220M50
C1001		CEAS221M50
C285, C286, C451, C458		CEAS330M16
C914, C1004		CEAS330M35
C1013, C1015, C1605		CEAS331M16
C913		CEAS331M6R3
C915, C916		CEAS3R3M50
C141, C142, C321, C323, C459, C513, C705, C713, C1024		CEAS470M16
C1007		CEAS472M16
C117, C118, C313, C314		CEAS4R7M50
C265, C266, C275, C315, C316, C917, C918, C1601, C1602		CEASR22M50
C267, C268, C273, C274		CEASR33M50
C293, C294		CFTXA103J50
C454		CFTXA183J50
C261-C264		CFTXA222J50
C191, C192		CFTXA223J50
C311, C312		CFTXA472J50
C113, C114		CFTXA822J50
C515		CGCYF104Z25
C305, C306		CGCYX123K25
C307, C308		CGCYX153K25
C309, C310		CGCYX272K25
C319, C320, C456, C457		CGCYX332K25
C455		CGCYX472K25
C303, C304		CGCYX562K25
C509, C510, C514, C1300, C1302		CKCYF103Z50
C126, C139, C706, C709, C756, C911, C921, C1008, C1020-C1022, C1030, C1201-C1204, C1301, C1701, C2020		CKCYF473Z50
C135-C138, C701, C702, C711, C712, C723, C724		CKPUYB101K50
C105, C106		CKPUYB102K50
C301, C302		CKPUYB221K50
C103, C104, C217, C218		CKPUYB271K50
C123, C124		CKPUYB391K50

Mark No.	Description	Part No.
C121, C122		CKPUYB471K50
C101, C102, C133, C134, C801, C851		CKPUYB681K50
C923, C924		CKPUYB821K50
C453		CQPA682J100
C1011 (C=4700, VDC=35V)		RCH1089
RESISTORS		
△ R1021 (10Ω)		DCN1002
R518 (68K)		RA11T683J
R1701 (22K)		RA5T223J
R512 (68K)		RA6T683J
R341, R342 (560Ω)		RCN1024
R1702 (11K/22K)		RCX1020
R510 (22K)		RCX1041
R501 (47K)		RCX1045
R528 (10K)		RCX1049
R451, R468		RD1/2LF010J
△ R1020		RD1/2LF010J
R461		RD1/2LF181J
R470		RD1/2LF201J
R1001		RD1/2PMF152J
R1609 (220Ω)		RS2LMF221J
R1002 (470Ω)		RS2LMF471J
VR851 (10K)		RCP1045
VR101-VR104, VR301, VR302 (22K)		RCP1046
VR451, VR452 (100K)		RCP1048
VR802, VR852 (15K)		RCP1090
VR2002 (5K)		RCV1089
OTHER RESISTORS		RD1/6PM□□□J
OTHERS		
CN1503 CONNECTOR (35P)		52045-3545
CN801 CONNECTOR (12P)		KPE12
CN851 CONNECTOR (14P)		KPE14
JA1300 MINI JACK		PKN1005
JA701 PIN JACK (4P)		RKB-020
JA2003 HEADPHONE JACK		RKN1002
JA1301, JA1302 REMOTE CONTROL JACK		RKN1004
X501 CERAMIC RESONATOR (4.19MHz)		VSS1014

LED UNIT (FOR CT-W420R/HEM, HB, HEMXJ AND HBXJ TYPES ONLY)

SEMICONDUCTORS

D527 SEL6C10R

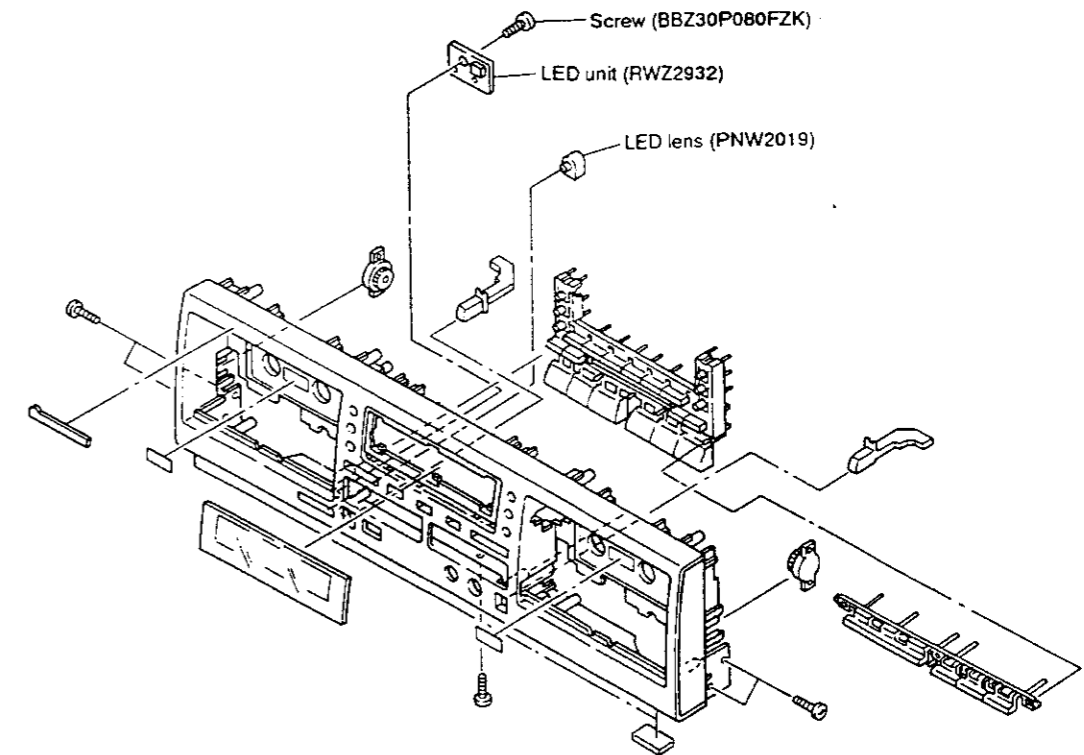
RESISTORS

R521 RD1/6PM330J

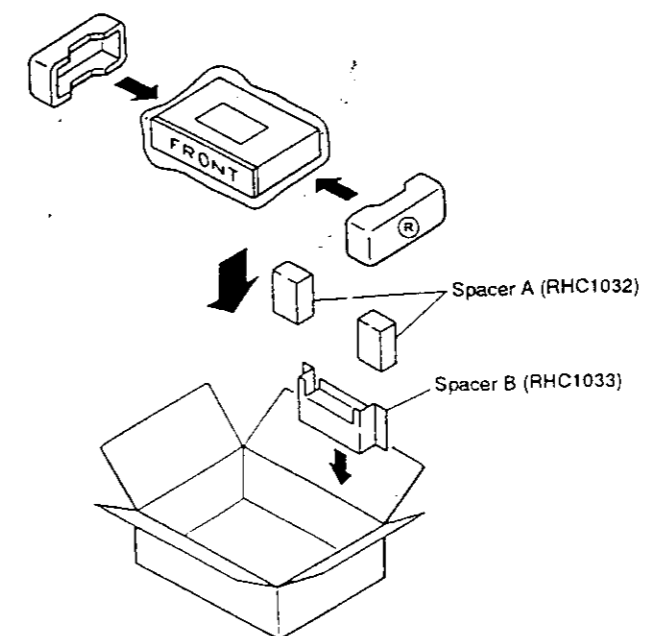
CT-W402R, CT-W420R

1.2 FOR LED UNIT, LED LENS AND SPACERS

- Exploded view (For CT-W420R/HEM, HB, HEMXJ and HBXJ types)



- Packing (CT-W420R/HB and HBXJ types)



• PCB diagrams

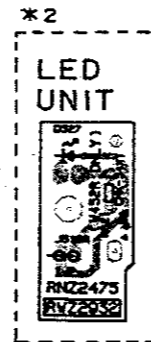
• View from component side

Line Voltage Selection

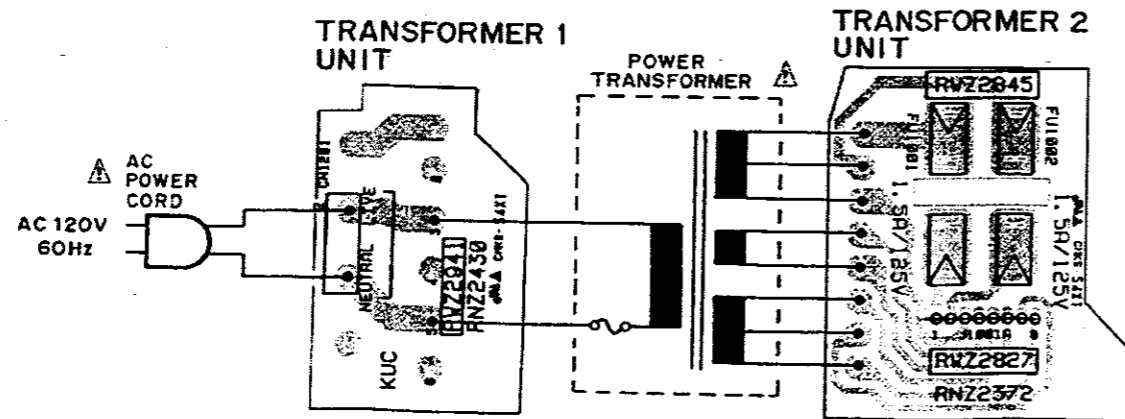
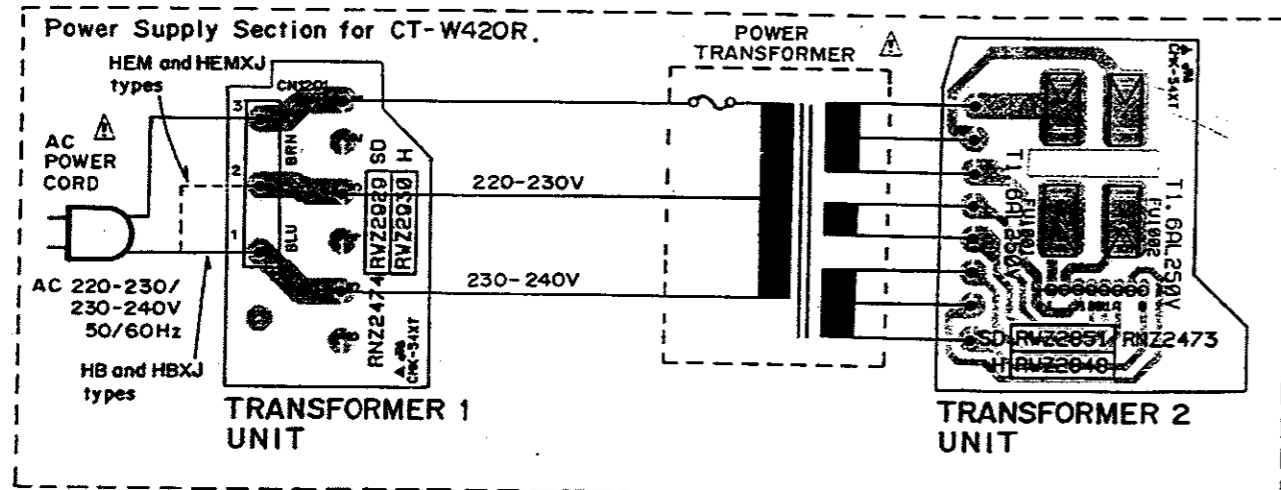
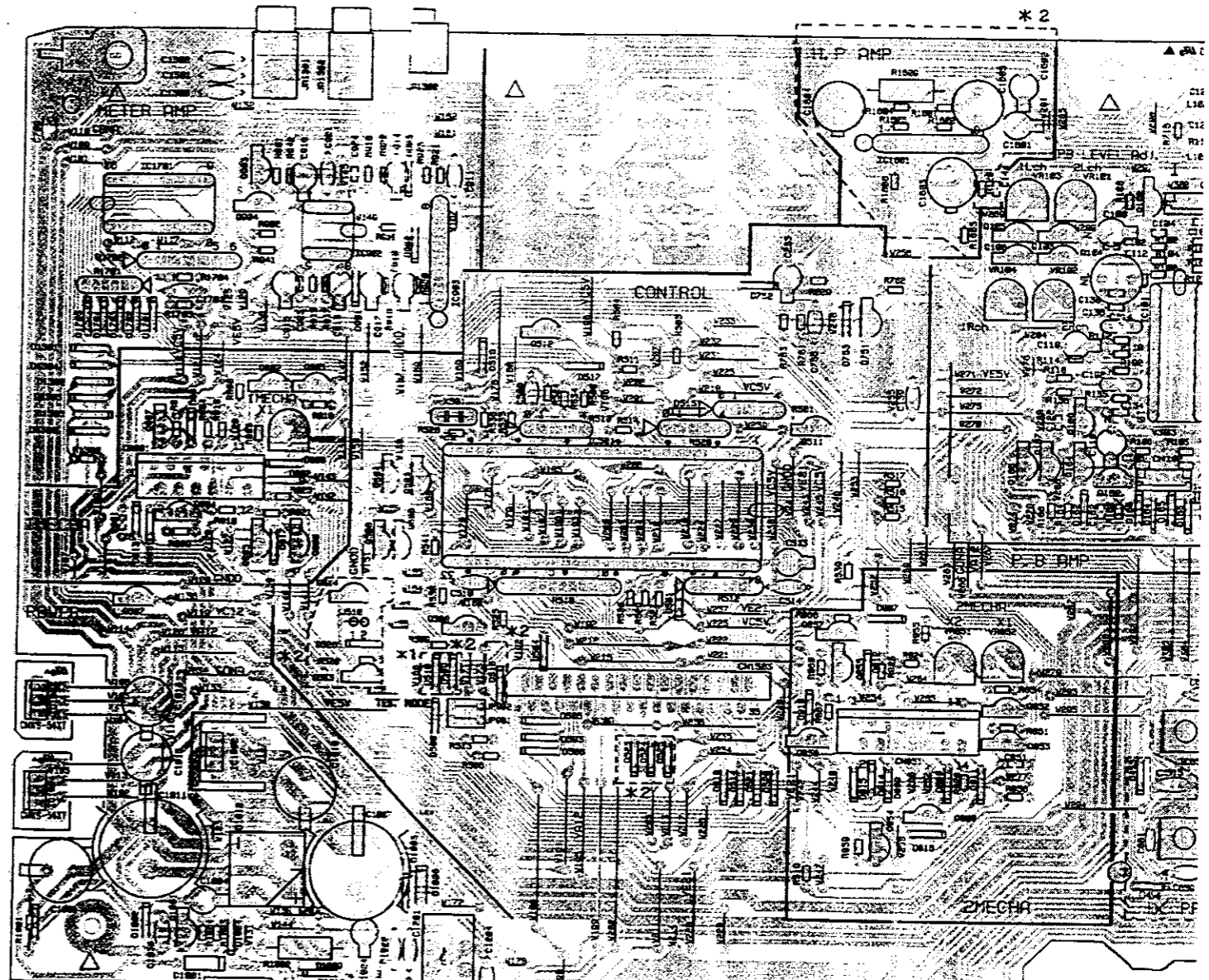
Line voltage can be changed with the following steps.

1. Disconnect the AC power cord.
2. Remove the Top cover
3. Change the connection of the TRANSFORMER 1 UNIT primary pins.
4. Stick the line voltage label on the rear panel.

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



MAIN UNIT (RWZ 2843:CT-W402R)
(RWZ 2846:CT-W420R)



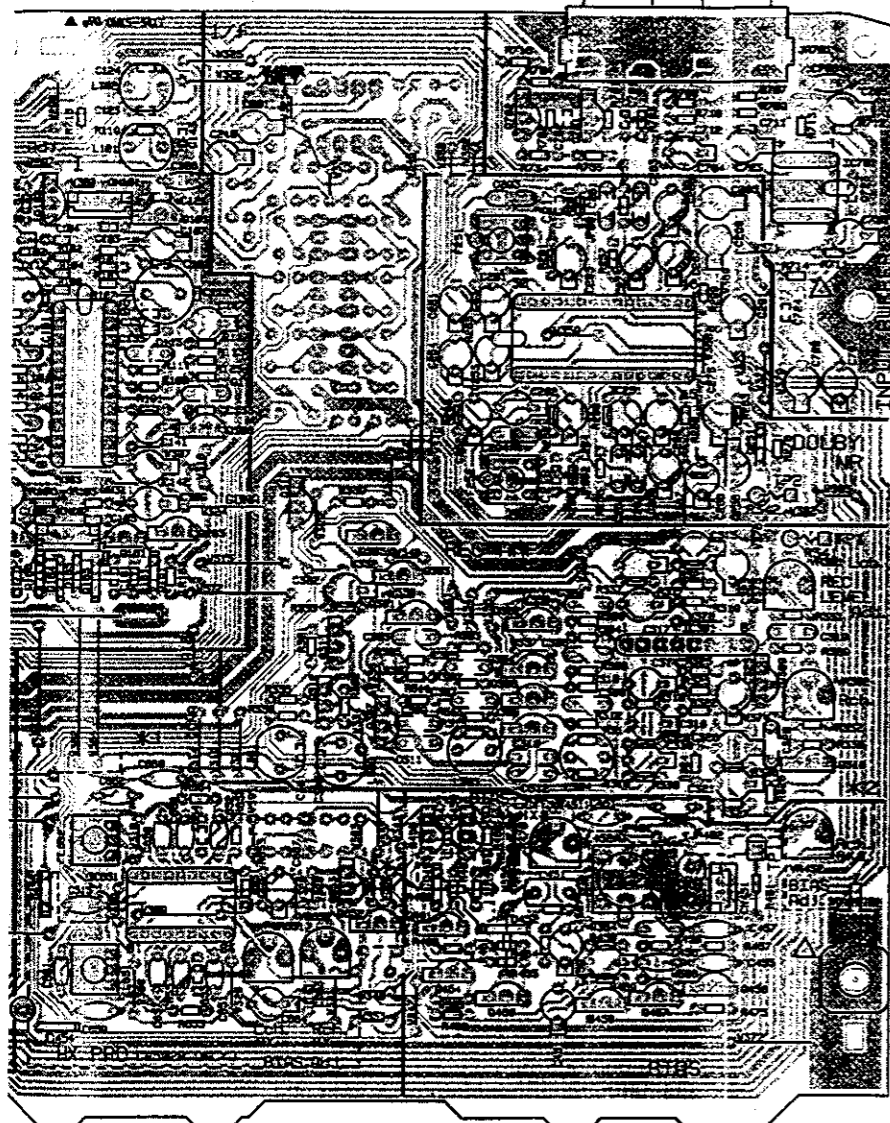
CT-W402R	JUMPER
CT-W420R	USED

RN2425
RW2849 SD
RW2846 H

Q1006
Q1005
Q1007
Q1010

VR2002

DIP



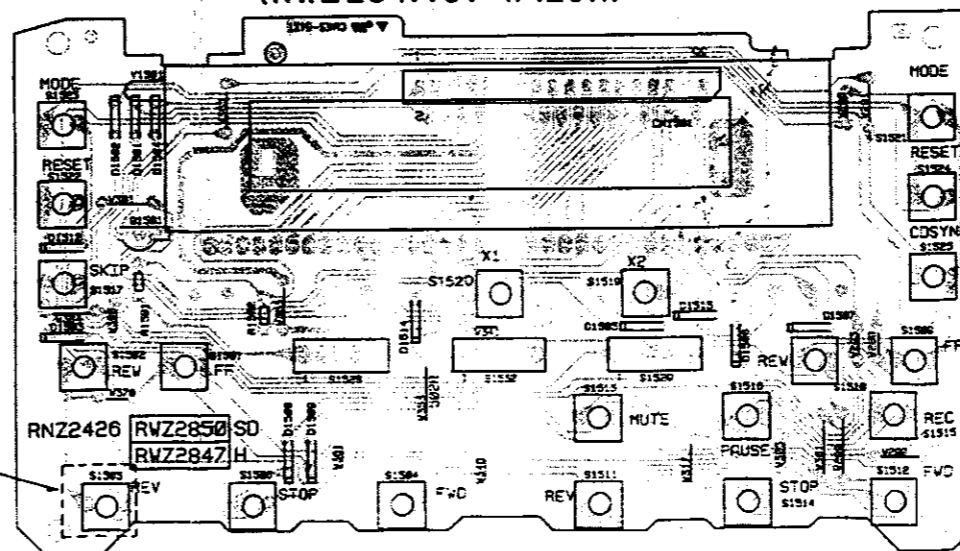
RNP1496-B

- Q702
- Q701
- IC1601
- IC201
- VR101 Q903 IC1604
- VR103 Q904 IC1701
- IC902 Q102 IC701
- IC903 Q101
- Q105
- Q103
- Q106
- Q104
- VR102
- VR104
- Q751
- IC251
- Q512
- IC101
- Q802
- Q803
- Q108
- VR802
- Q511
- Q109
- Q256
- Q504
- Q165
- Q313
- Q503
- Q167
- Q163
- Q804
- IC501
- Q164
- Q161
- Q805
- Q303
- Q302
- Q809
- Q301
- IC301
- VR302
- Q514
- Q311
- Q304
- VR851
- Q508
- Q857
- Q306
- VR852
- Q513
- Q312
- Q308
- Q307
- Q310
- VR451
- Q855
- Q852
- VR452
- IC1003
- Q853
- Q453
- IC1002
- Q858
- Q459
- Q653
- IC1004
- IC651
- Q652
- VR651
- Q808
- Q461
- Q456
- VR652
- Q854
- Q454
- Q457
- Q460
- Q458
- Q1001

P.C.B. pattern diagram indication	Corresponding part symbol	Part name	P.C.B. pattern diagram indication	Corresponding part symbol	Part name
		Transistor			Ceramic capacitor
		FET			Mylar capacitor
		Diode			Styrol capacitor
		Zener diode			Electrolytic capacitor (Non polarized)
		LED			Electrolytic capacitor (Noiseless)
		Varactor			Electrolytic capacitor (Polarized)
		Tact switch			Electrolytic capacitor (Polarized)
		Inductor			Power capacitor
		Coil			Semi-fixed resistor
		Transformer			Resistor array
		Filter			Resistor
		Resonator			Resonator
		Thermistor			Thermistor

- This P.C.B. connection diagram is viewed from the parts mounted side.
- The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the above Table.
- The capacitor terminal marked with shows negative terminal.
- The diode marked with shows cathode side.
- The transistor terminal marked with shows emitter.

DISPLAY UNIT (RWZ 2844:CT-W402R)
(RWZ 2847:CT-W420R)



REV AND AUTO PLAY
(CT-W402R ONLY)
REV
(CT-W420R ONLY)

NOTE:

- * 1 CT-W402R ONLY
- * 2 CT-W420R ONLY

Q1006

Q1005

Q1007

Q1010

• View from soldering side

A

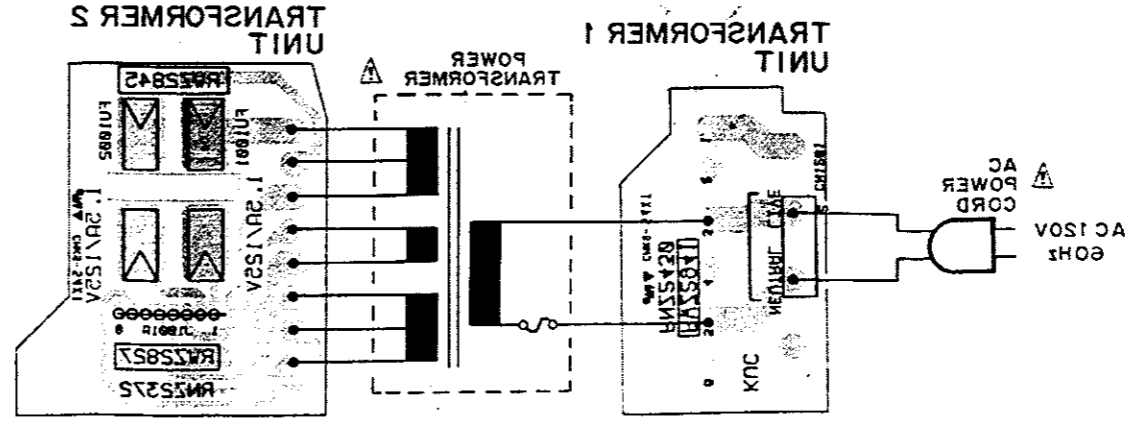
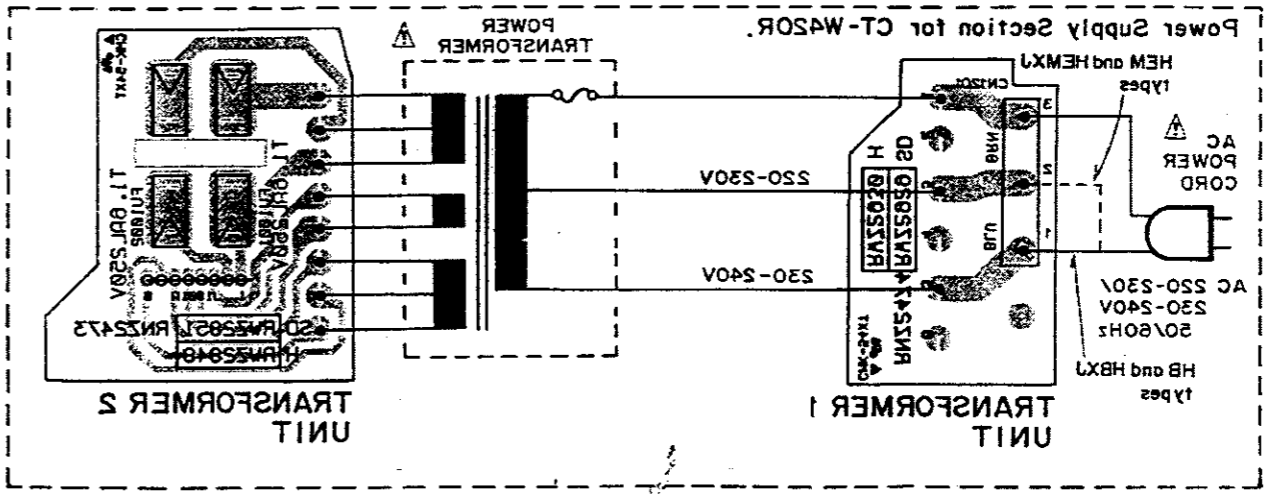
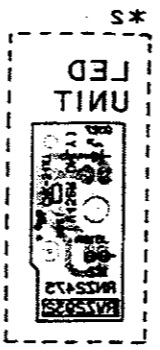
B

C

D

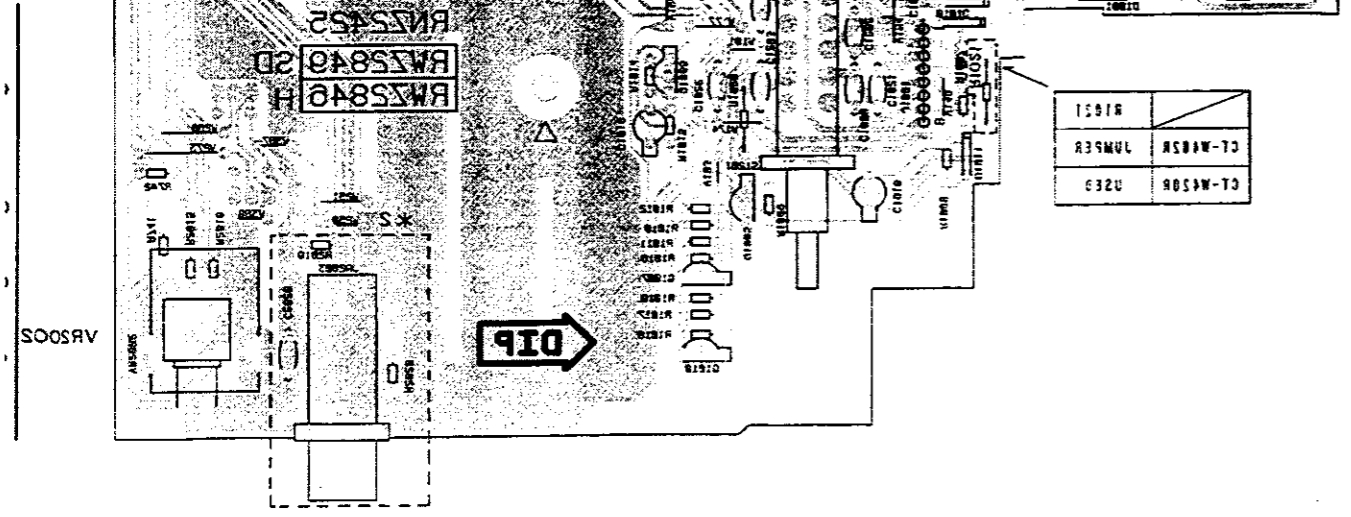
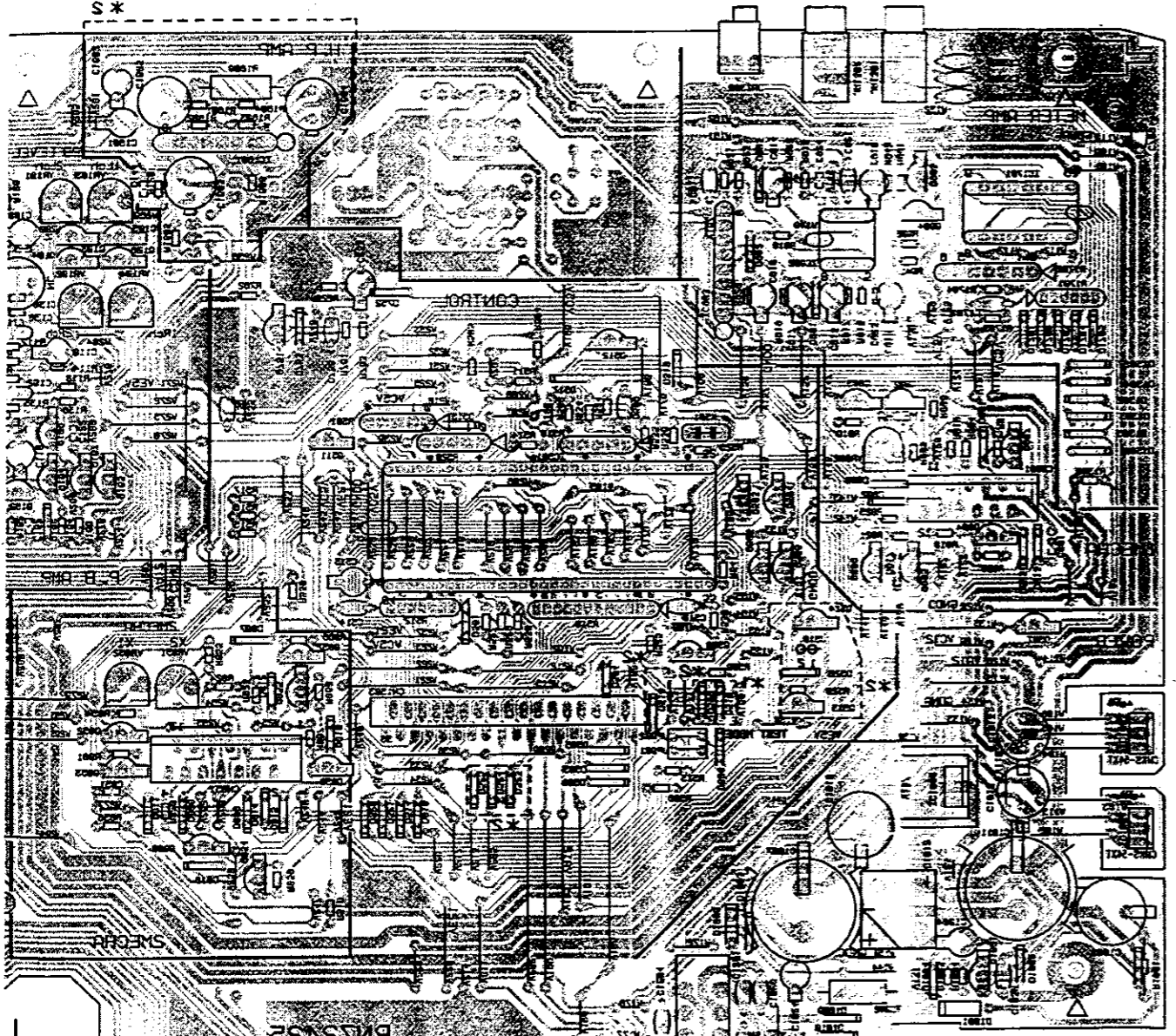
Parts No	Description
AAx-193	220 V label
AAx-192	240 V label

- Line Voltage Selection
- Line voltage can be changed with the following steps.
1. Disconnect the AC power cord.
 2. Remove the top cover.
 3. Change the connection of the TRANSFORMER 1 UNIT primary pins.
 4. Stick the line voltage label on the rear panel.



CT-W420R	U2E3
CT-W420R	U2E3
CT-W420R	U2E3

MAIN UNIT (RWZS843:CT-W420R)
 (RWZS846:CT-W420R)



e

2

4

3

5

1

e

2

4

3

5

1

CT-W402R, CT-W420R

1.5 ADJUSTMENTS

- CT-W420R/HEM, HB, HBXJ, HEMXJ and CT-W502R/KUXJ have the same adjustment except for the following:

RECORDING SECTION

1. Recording Bias Adjustment

- 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	Record the 315 Hz and 6.3 kHz signals at -20 dBV input level and playback (STD-631)	Deck II VR451(Lch) VR452(Rch)	LINE OUT	Repeatedly record, playback and adjust so that the playback level of 6.3 kHz signal becomes $0.5 \text{ dB} \pm 0.5 \text{ dB}$ when compared with the 315 Hz signal.	

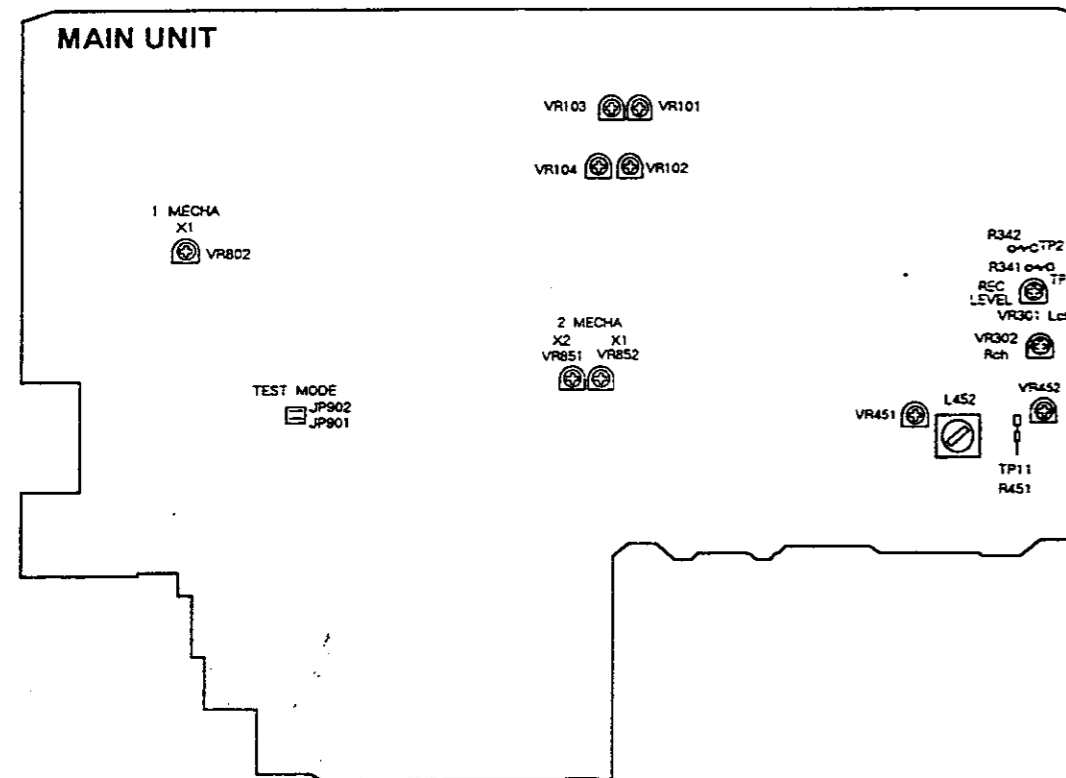
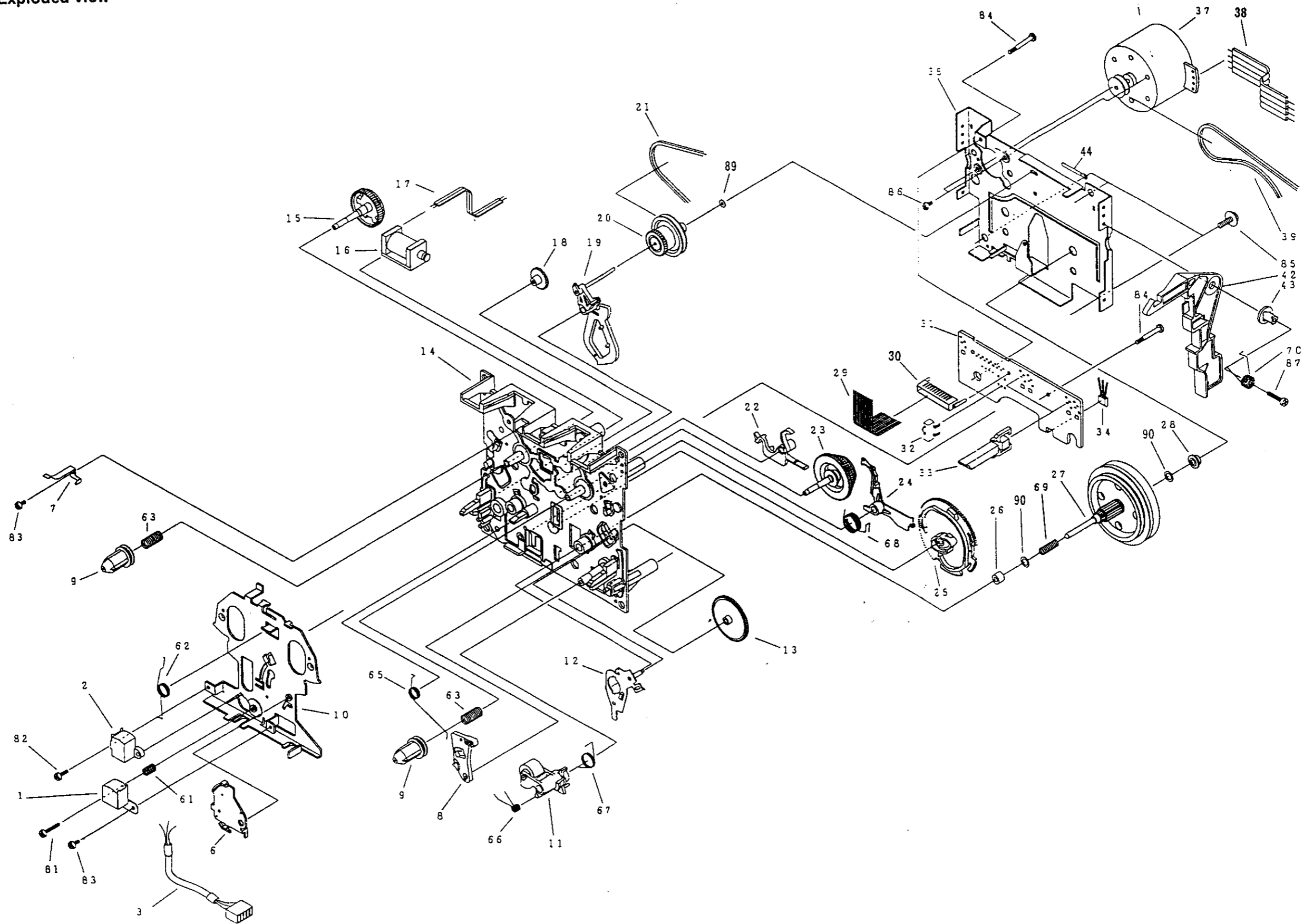


Fig. 1 Adjusting points

1.3 MECHANISM UNIT (DECK I)
 (RYM1202 : FOR CT-W402R/KUXJ TYPE)
 ● Exploded view



CT-W402R, CT-W420R

Parts List

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
A	1	R/P HEAD	RPB1026		81	SCREW (AZIMUTH)	RBA1096
	2	DUMMY HEAD	RNK1458		82	SCREW	RBA1029
	3	WIRE HEAD	RKP1577		83	SCREW	PCZ20P040FMC
	6	ASS'Y ARM ASSIST	RXA1401		84	SCREW	RBA1093
	7	SPRING CASSETTE	RBK1039		85	SCREW	RBA1094
	8	EJECT LOCK	RNK1718		86	SCREW	RBA1086
	9	CAP REEL	RNK1719		87	SCREW	RBA1095
	10	CHASSIS HEAD	RNE1439		88	.....
	11	ASS'Y PINCH ARM R	RXA1404		89	WASHER	RBF1046
	12	ARM PLAY R	RNK1868		90	WASHER	WA26D047D013
	13	GEAR PLAY	RNK1867				
	14	CHASSIS OS.	RXA1417				
	15	REEL GEAR	RNK1726				
	16	SOLENOID	RXP1020				
	17	WIRE	RDC1006				
B	18	GEAR FF	RNK1723				
	19	ASS'Y ARM FR	RXA1412				
	20	ASS'Y PULLEY FR	RXA1413				
	21	BELT FR	REB1158				
	22	ARM BRAKE	RNK1724				
	23	ASS'Y SUB REEL R	RXA1408				
	24	ARM TRIGGER	RNK1722				
	25	GEAR CAM	RNK1725				
	26	SHAFT HOLDER	RNG1049				
	27	ASS'Y FLYWHEEL R	RXA1424				
	28	SHAFT HOLDER	RNG1004				
	29	WIRE (12P)	RDD1249				
NSP	30	HOLDER WIRE	RNK1683				
	31	P.C. BOARD	RNP1347				
	32	SWITCH MODE	RSN1020				
	33	SWITCH (LEAF)	RSN1019				
C	34	HALL IC.	DN6851A				
	35	BRACKET FW	RNE1438				
	37	ASS'Y MOTOR	RXM1060				
NSP	38	WIRE	RDD1012				
	39	BELT MAIN	REB1160				
	42	EJECT LEVER R	RNK1811				
	43	COLLAR	RNK1704				
	44	KEEP WIRE	RNH1004				
	61	SPRING (AZIMUTH)	RBH1296				
	62	SPRING	RBH1284				
	63	SPRING	RBH1286				
	64	.....				
	65	SPRING	RBH1285				
	66	SPRING	RBH1298				
	67	SPRING	RBH1290				
	68	SPRING	RBH1295				
D	69	SPRING	RBH1325				
	70	SPRING	RBH1320				

Note : No. 45 - 60 are not used.

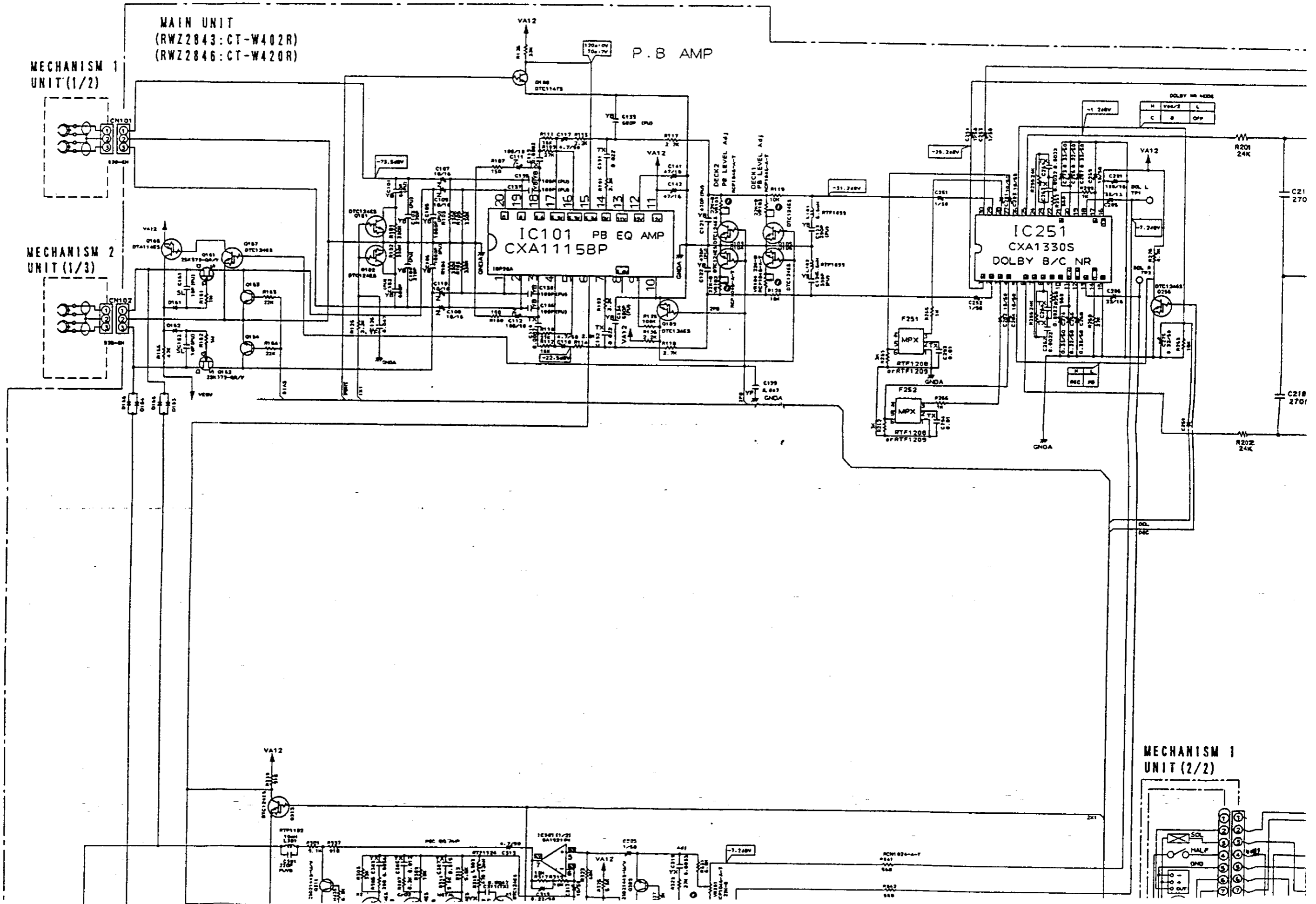
1.4 FOR MAIN UNIT, DISPLAY UNIT, TRANSFORMER 1 UNIT, TRANSFORMER 2 UNIT AND LED UNIT

● Schematic diagram

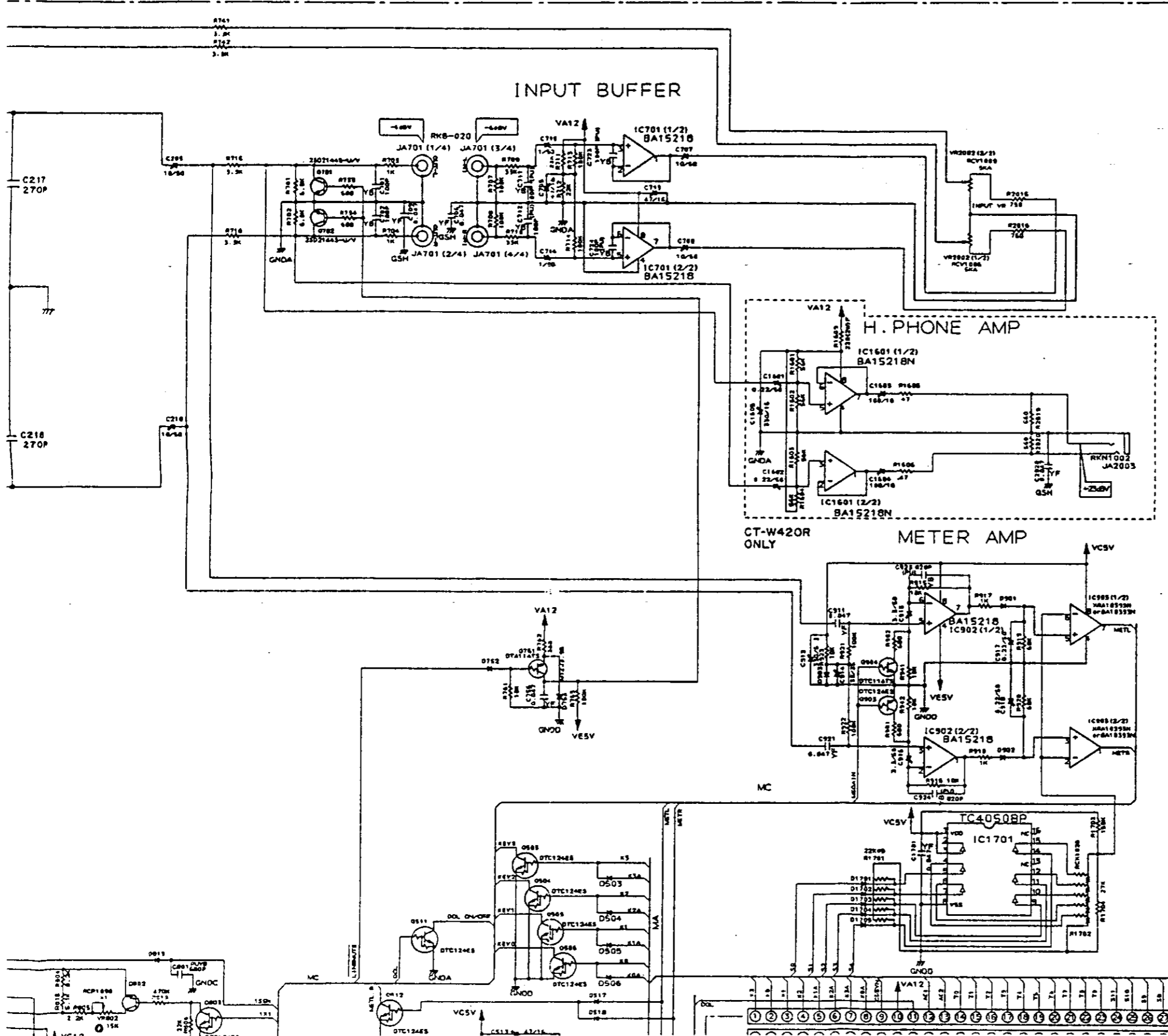
A

B

C



MECHANISM 1 UNIT (2/2)



Note:

(Type 6)

1. When ordering service parts, be sure to refer to "PARTS LIST of EXPLODED VIEWS" or "PCB PARTS LIST".
2. Since these are basic circuits, some parts of them or the values of some components may be changed for improvement.
3. RESISTORS:
Unit: k: kΩ, 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.
4. CAPACITORS:
Unit: p: pF or μF unless otherwise noted.
Ratings: capacitor (μF)/ voltage (V) unless otherwise noted.
Rated voltage: 50V except for electrolytic capacitors.
5. COILS:
Unit: m: mH or μH unless otherwise noted.
6. VOLTAGE AND CURRENT:
⊠ : DC voltage (V) in STOP mode unless otherwise noted.
⊞ : mA or -mA : DC current in STOP mode unless otherwise noted.
7. OTHERS:
• → : Signal route.
⊙ : Adjusting point.
▽ (Red) : Measurement point.
• 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.
8. SWITCHES (Underline indicates switch position):

MAIN UNIT

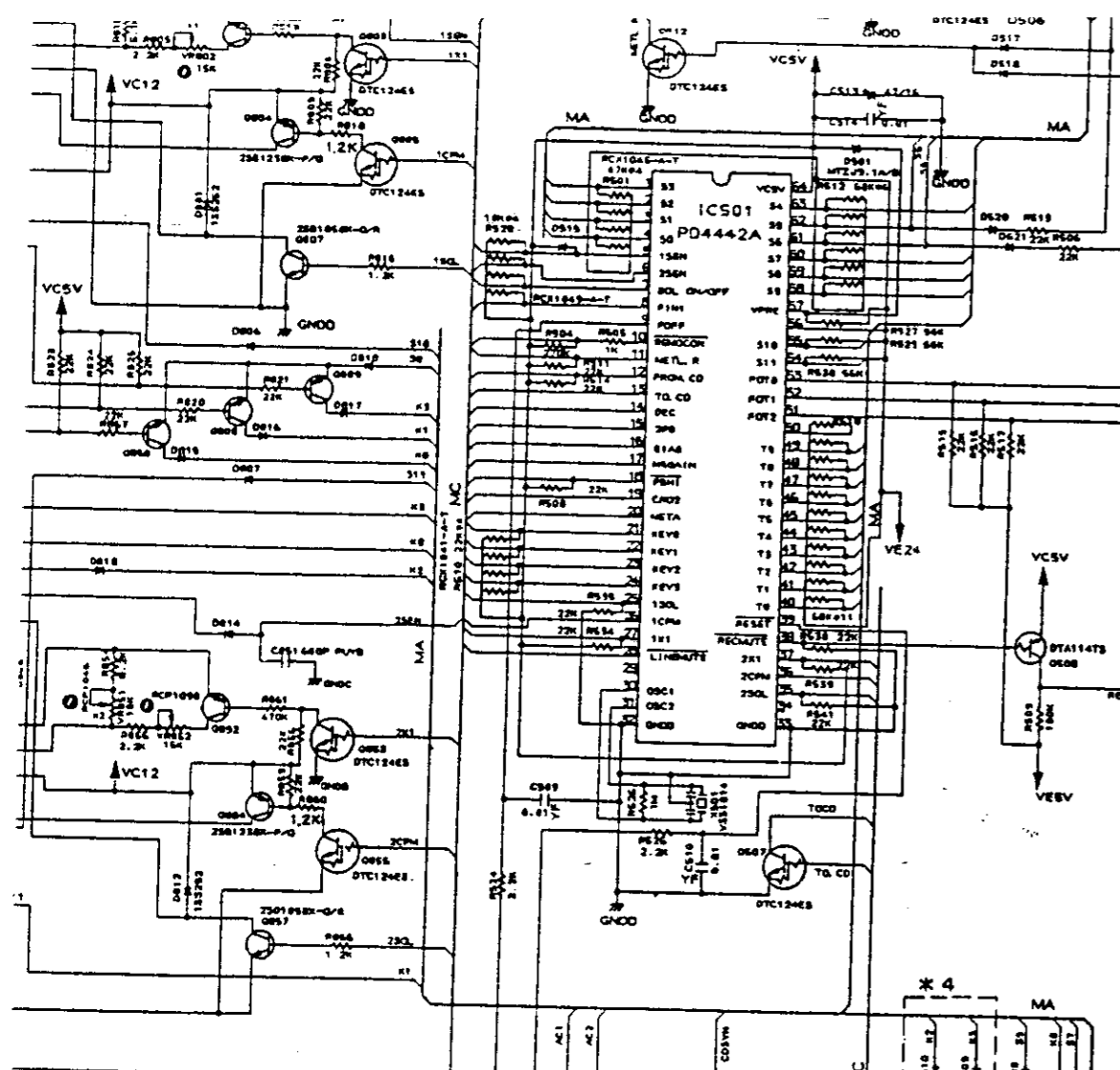
S1201 : POWER

DISPLAY UNIT

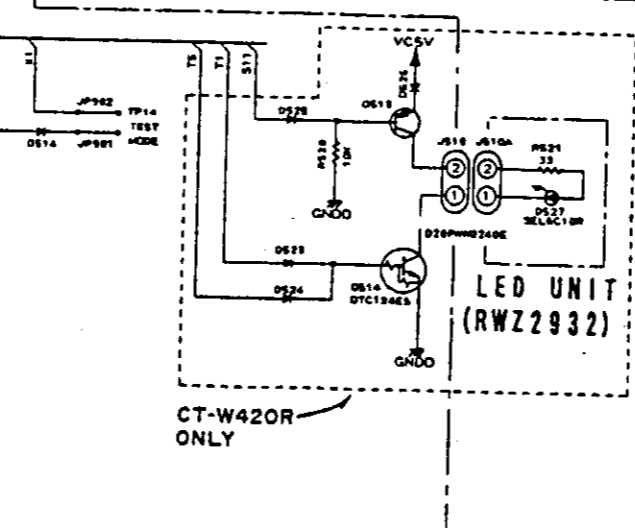
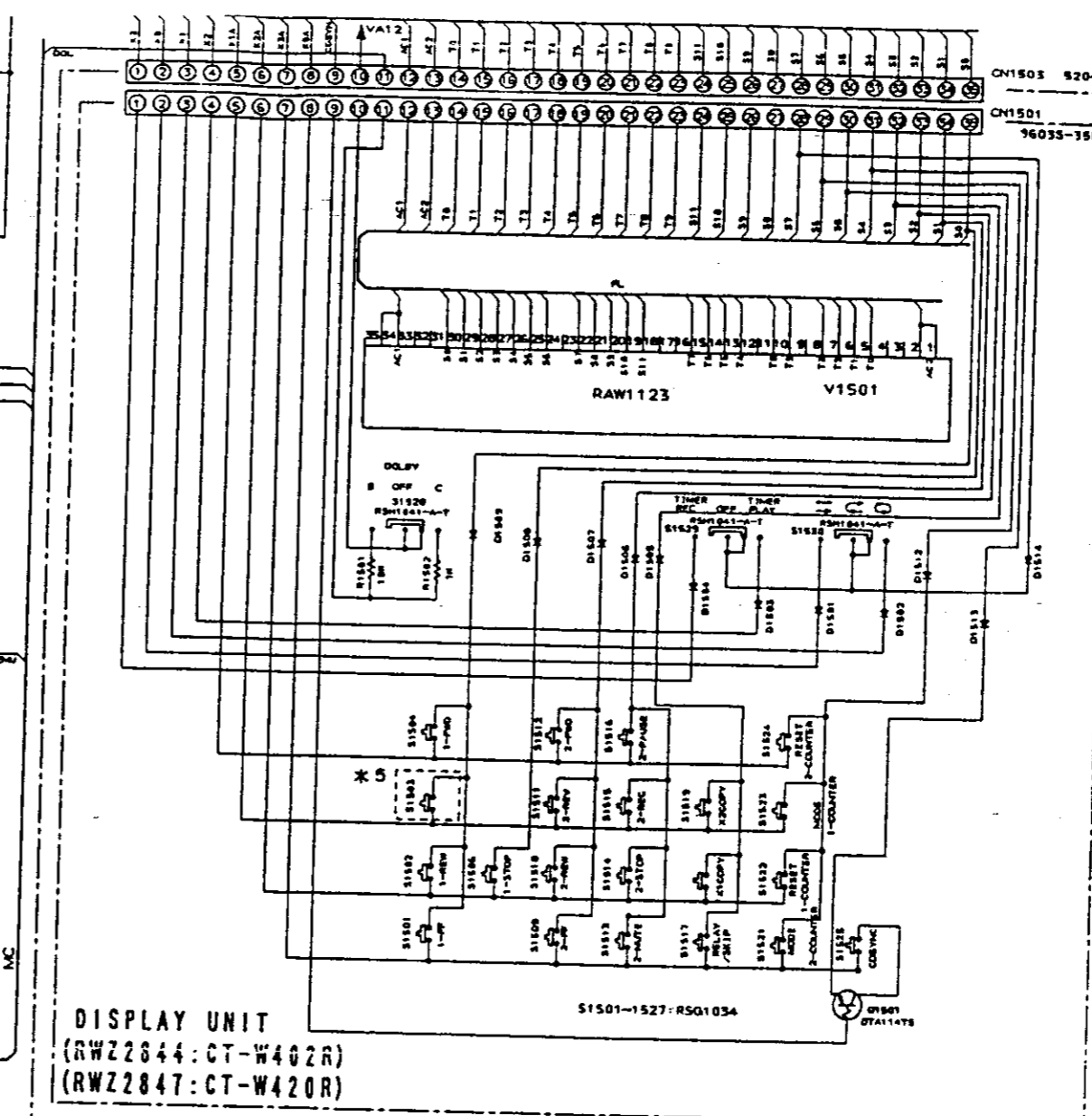
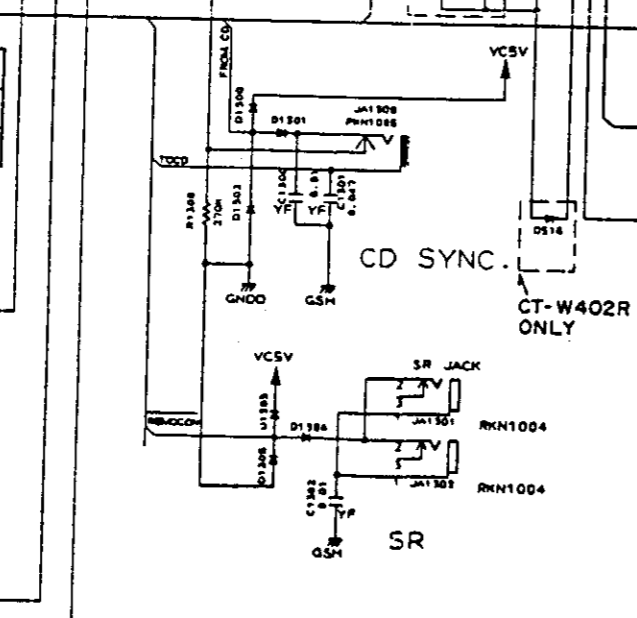
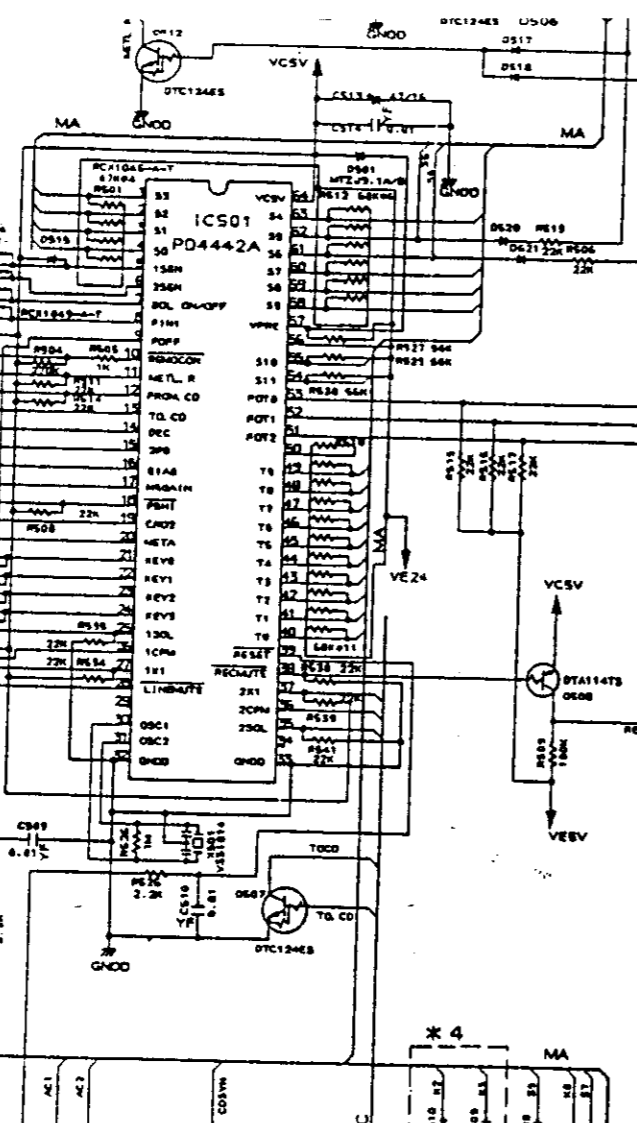
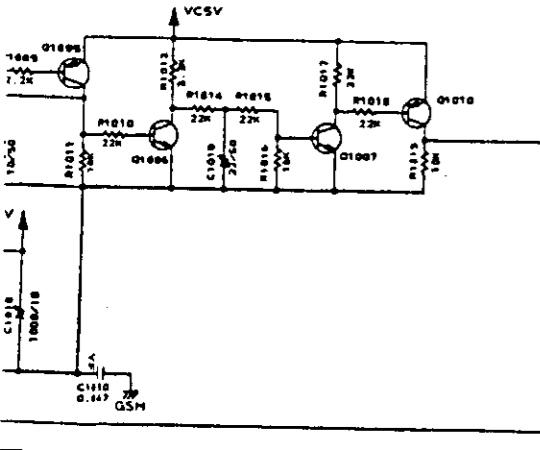
- | | |
|--------------------|---|
| S1501 : 1-FF | S1520 : 1/F |
| S1502 : 1-REW | S1521 : MODE 2-COUNTER |
| S1503 : 1-REV | S1522 : RESET 1-COUNTER |
| S1504 : 1-FWD | S1523 : MODE 1-COUNTER |
| S1506 : 1-STOP | S1524 : RESET 2-COUNTER |
| S1509 : 2-FF | S1525 : CD SYNC |
| S1510 : 2-REW | S1528 : DOLBY B - OFF-C |
| S1511 : 2-RVV | S1529 : TIMER REC - OFF-PLAY |
| S1512 : 2-FWD | S1530 : <u> </u> - <u> </u> - <u> </u> - <u> </u> |
| S1513 : 2-MUTE | |
| S1514 : 2-STOP | |
| S1515 : 2-REC | |
| S1516 : 2-PAUSE | |
| S1517 : RELAY/SKIP | |
| S1518 : X1 COPY | |
| S1519 : X2 COPY | |

B

C



	C1011	Q1001	R1020	R1021
CT-W402R	4100/25	2S01001	RF1/4L410J	JUMPER
CT-W420R	4100/35	2S01200	R01/2LF010J	DCN1002

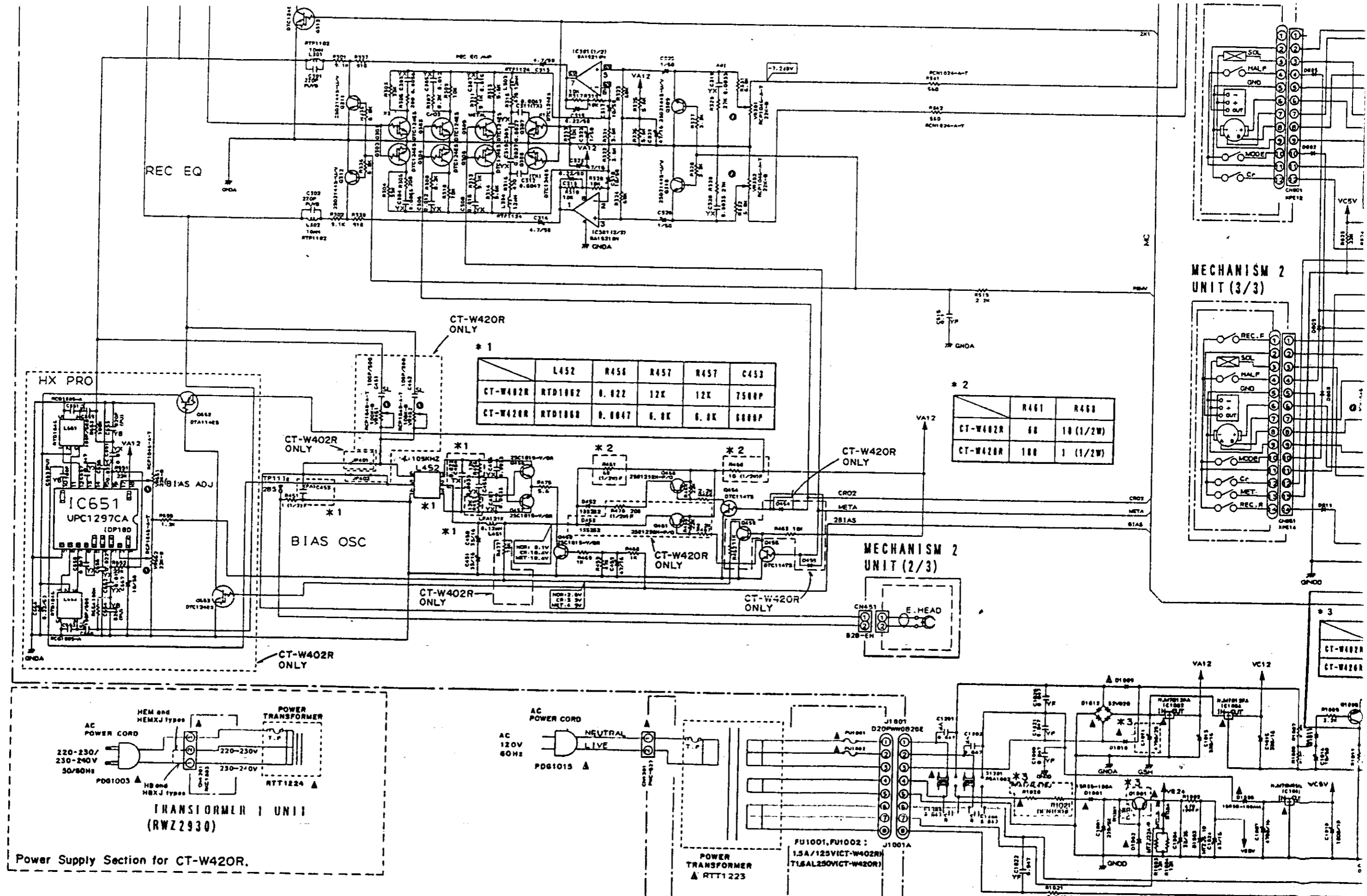


* 4

	D500	D510
CT-W402R	UNUSED	USED
CT-W420R	USED	UNUSED

* 5

	S1503
CT-W402R	REV AND AUTO PLAY
CT-W420R	1 REV

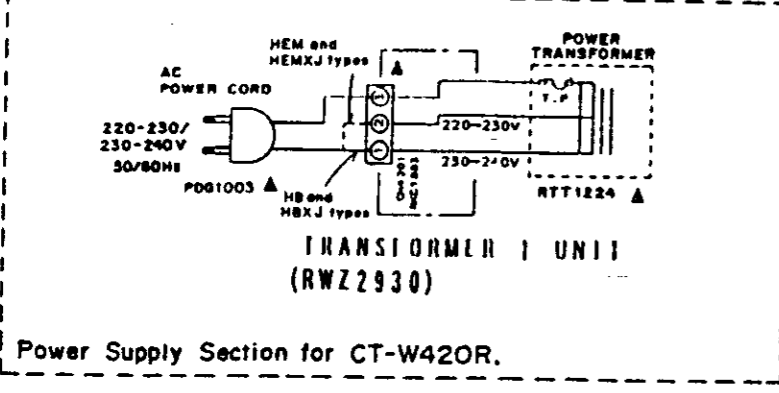


CT-W420R ONLY

	L452	R456	R457	R457	C453
CT-W402R	RTD1002	0.022	12K	12K	7500P
CT-W420R	RTD1000	0.0047	6.8K	6.8K	6800P

* 2

	R461	R460
CT-W402R	68	10 (1/2W)
CT-W420R	100	1 (1/2W)



TRANSFORMER 1 UNIT (RWZ2941:CT-W402R)

TRANSFORMER 2 UNIT (RWZ2845:CT-W402R) (RWZ2848:CT-W420R)