

STEREO INTEGRATED AMPLIFIER/TUNER R-A100/A150/V300/V350 SERVICE MANUAL

KENWOOD

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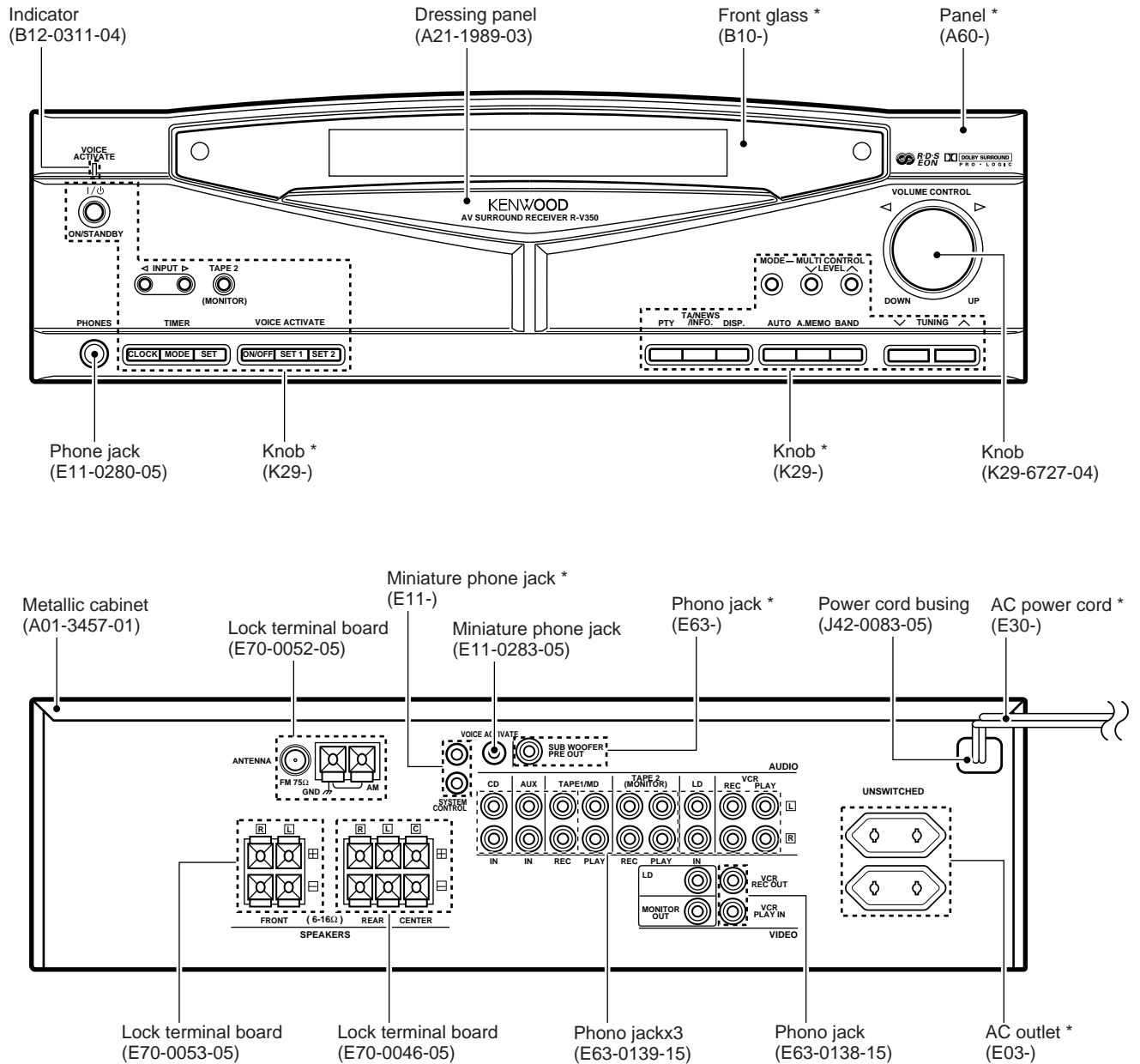


Illustration is R-V350.

* Refer to parts list on page 41.

Caution : No connection of ground line if disassemble the unit.
Please connect the ground line on rear panel, PCBs, Chassis and some others.



R-A100/A150/V300/V350

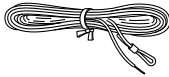
CONTENTS / ACCESSORIES

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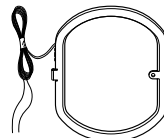
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Accessories (R-A100/A300/V300/V350)

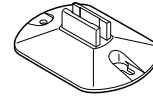
FM indoor antenna(1)
(T90-0809-05) R-A100/R-V300 : IYMCX type
(T90-0810-05) R-A150/R-V300/V350 : EKPT type



AM loop antenna(1) (T90-0820-05)



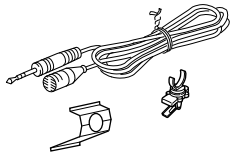
Loop antenna stand(1)
(J19-3645-05)



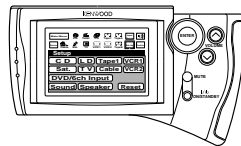
Cable tidy(2)
(F07-1602-04)



Microphone(1)
(W01-0935-05)

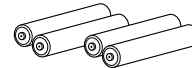


Graphical Remote Control unit(1) *
(A70-1159-05) GRC-150 (R-V300 KP type)

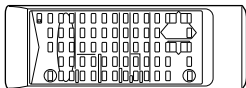


Battery cover (A09-0379-08)

Batteries(R03/AAA) (4)

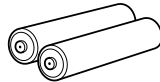


Remote control unit(1) *
(A70-1136-05) RC-S0504 (R-V350)
(A70-1150-05) RC-S0503 (R-V300) IYMCX type
Battery cover (A09-0378-08)

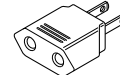


(A70-1149-05) RC-S0300 (R-A100/A150)
Battery cover (A09-0357-08)

Batteries(R6/AA) (2)
(Except U.S.A. and Canada)



*AC plug adapter (1)
(E03-0115-05)



* Use to adapt the plug on the power cord to the shape of the wall outlet. (Accessory only for regions where use is necessary)

R-A100/A150/V300/V350

EXTERNAL VIEW

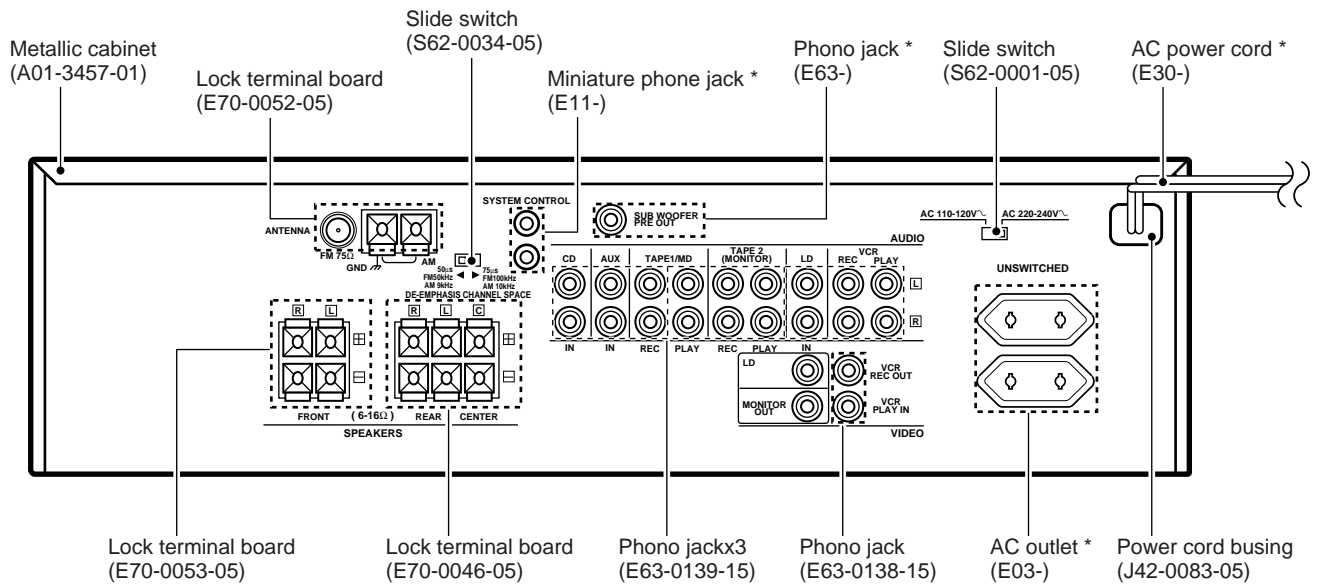
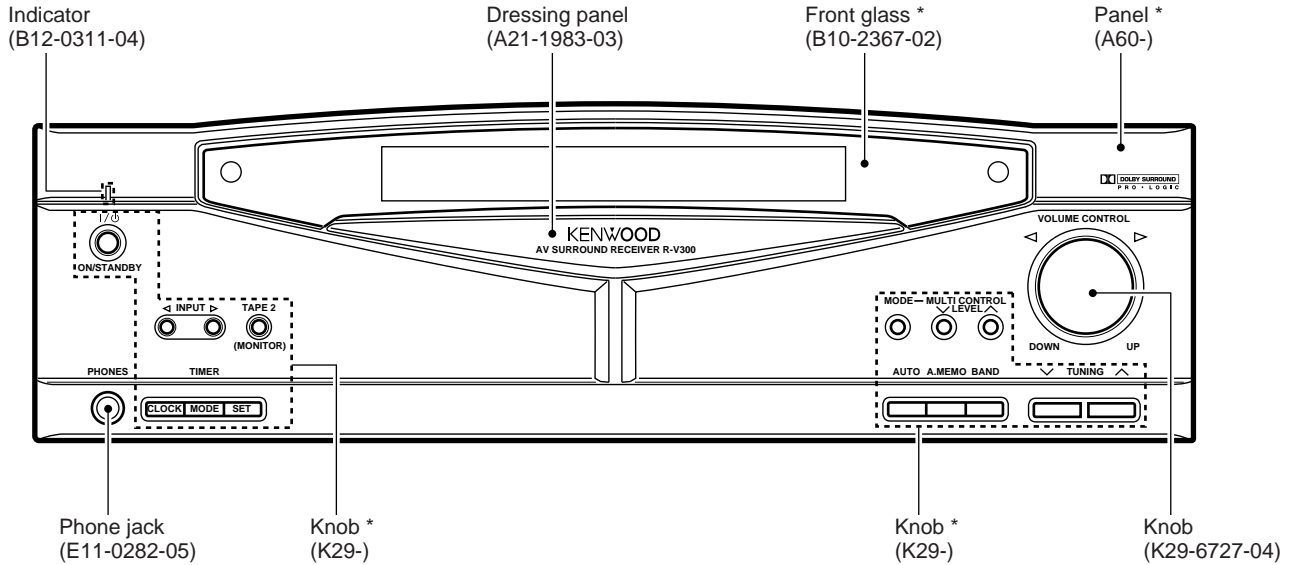


Illustration is R-V300.

* Refer to parts list on page 41.

R-A100/A150/V300/V350

EXTERNAL VIEW

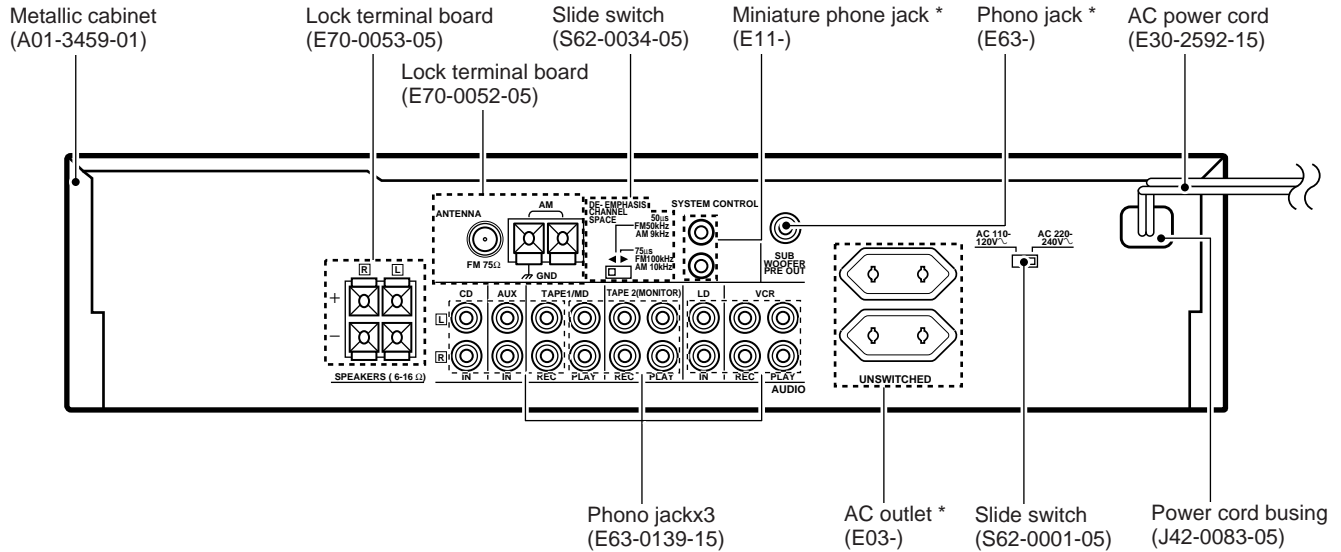
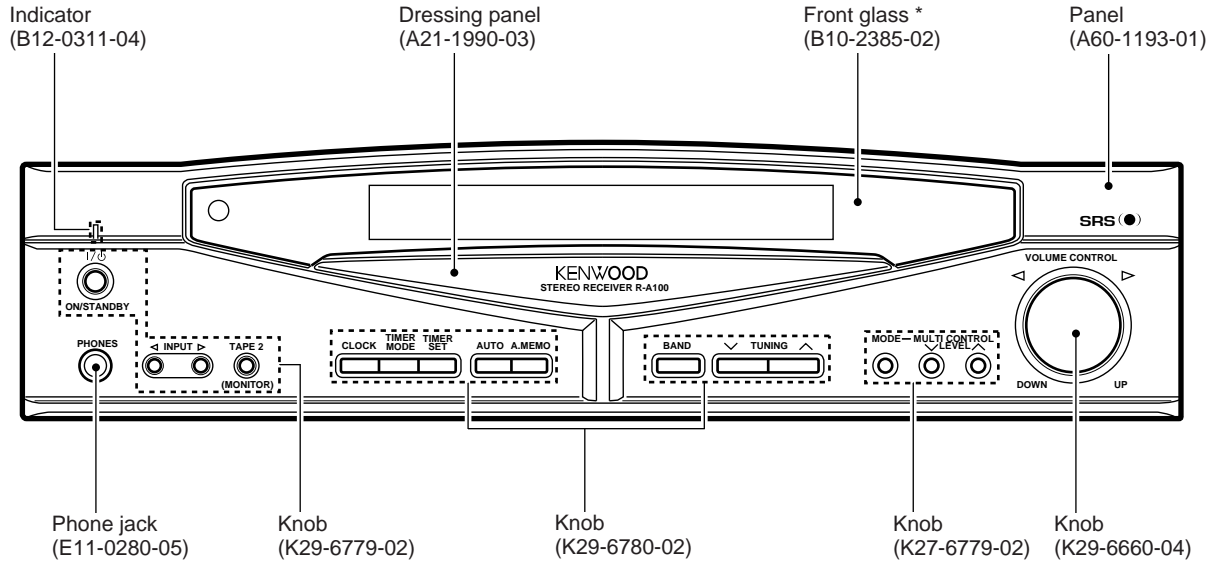


Illustration is R-A100.

* Refer to parts list on page 41.

R-A100/A150/V300/V350

EXTERNAL VIEW

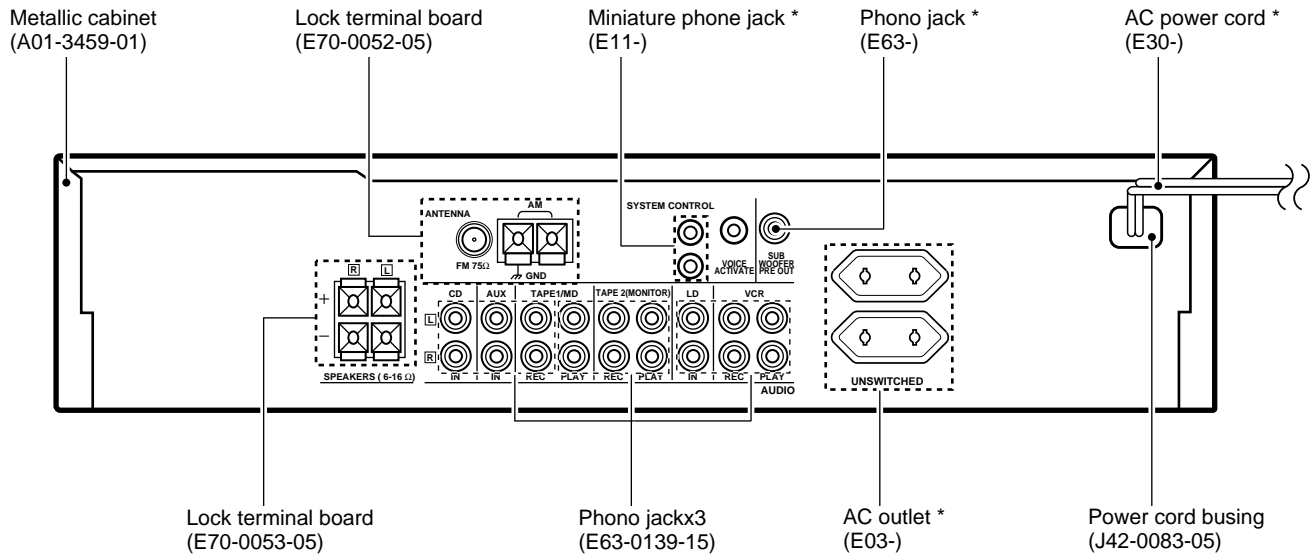
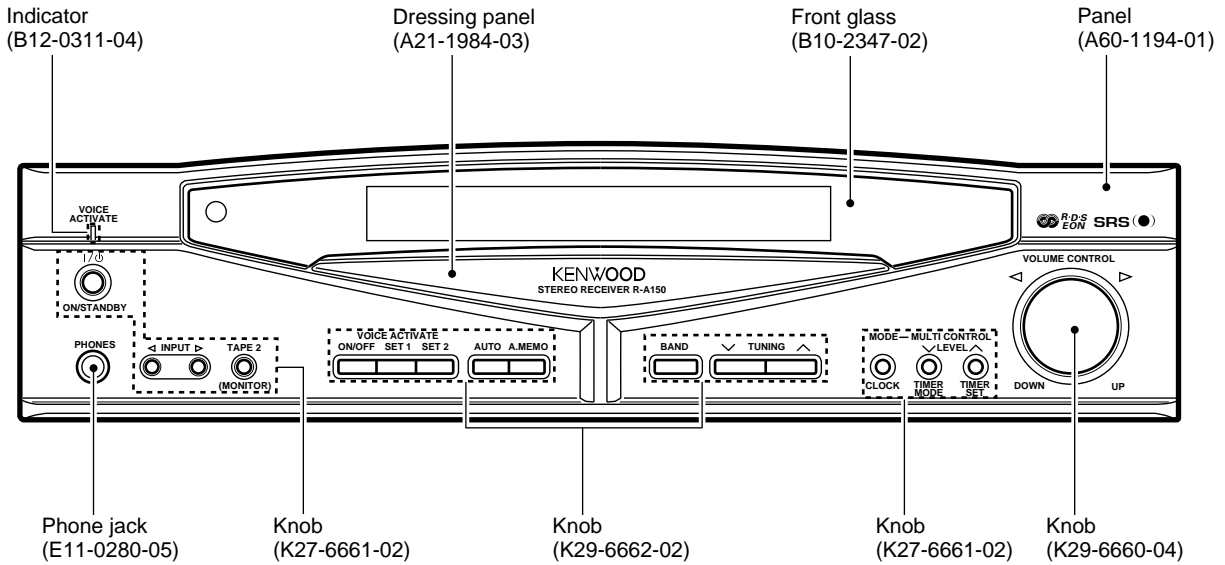


Illustration is R-A150.

* Refer to parts list on page 41.

R-A100/A150/V300/V350

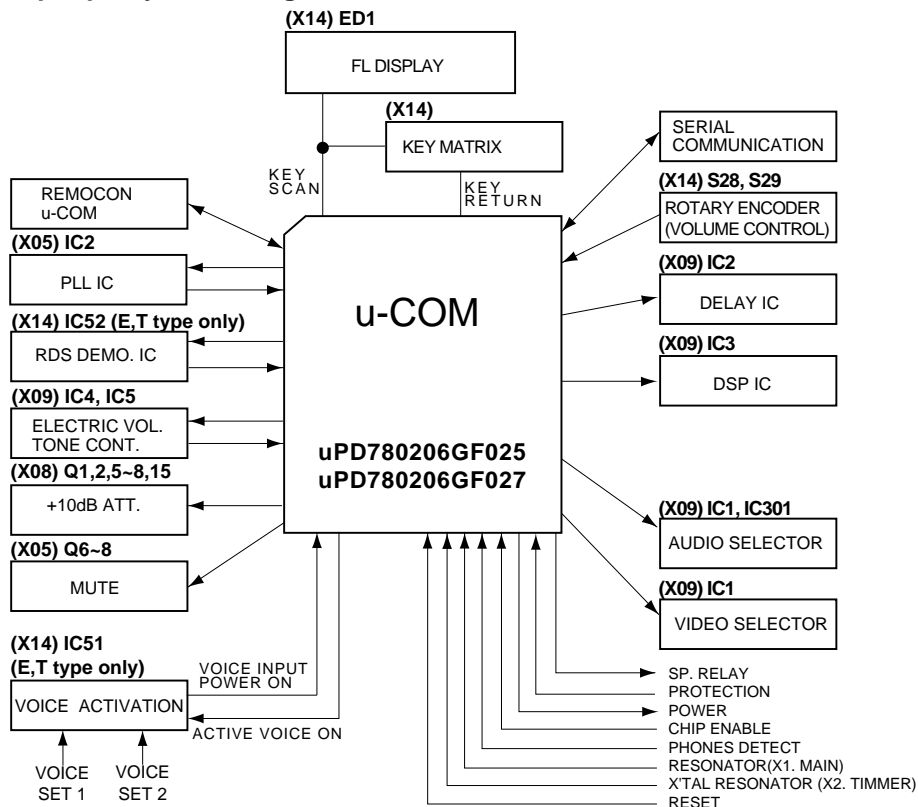
CIRCUIT DESCRIPTION

1. Back up data and initial data

POWER ON/OFF	: OFF
MAIN VOLUME LEVEL	: -65dB
AUDIO INPUT • SELECTOR	: TUNER
VIDEO INPUT • SELECTOR(R-V300/V350)	: VCR
TAPE1/MD	: TAPE1
TAPE2/MONITOR	: OFF
FL DISPLAY MODE	: SELECTOR
SOURCE DIRECT(R-V300/V350)	: OFF
SURROUND(R-V300/V350)	: STEREO
DSP MODE(R-V300/V350)	: ARENA
SPEAKER CH.LEVEL(R-V300/V350)	: 0dB
BALANCE	: CENTER
DELAY(R-V300/V350)	: 20ms
EFFECT LEVEL(R-V300/V350)	: 3
TONE BASS	: 0dB
TONE TREBLE	: 0dB
INPUT LEVEL	: 0dB
SRS 3D(R-A100/A150)	: OFF
SRS 3D LEVEL(R-A100/A150)	: LEVEL 0
TUNING MODE(AUTO/MONO)	: AUTO
PRESET MEMORY(40ch)	: TEST PRESET FREQUENCY
LAST BAND	: FM
FM LAST FREQUENCY	: 87.5MHz
AM(MW) LAST FREQUENCY	: 531kHz (CH.SP 9kHz)
	: 530kHz (CH.SP10kHz)
LW LAST FREQUENCY	: 153kHz
LAST P.ch	: [--ch]
RDS DISPLAY MODE(R-A150/V300)	: FREQUENCY DISPLAY
TA/NEWS/INFO.(R-A150/V300)	: OFF
CLOCK DISPLAY	: AM 12:00
TIMER	: OFF
SLEEP TIMER	: OFF
VOICE ACTIVATE KEY WORD	: NON SPECIFIC SPEAKER(RD:KENWOOD)
VOICE ACTIVATE	: ON

2. Main microprocessor uPD780206GF025 (X14-, IC1) MIYCX type uPD780206GF027 (X14-, IC1) KPTE type

2-1 Microprocessor periphery block diagram



R-A100/A150/V300/V350

CIRCUIT DESCRIPTION

2-2 Key matrix

	② KR3	③ KR2	④ KR1	⑤ KR0
⑦③ KS0	–	–	–	–
⑦④ KS1	TUNING Δ	DISPLAY(RDS)	PTY	TA/NEWS/INFO
⑦⑤ KS2	(MULTI MODE)	(MULTI LEVEL ∇)	(MULTI LEVEL Δ)	–
	⌘ CLOCK	⌘ TIMER MODE	⌘ TIMER SET	–
⑦⑥ KS3	TUNING ∇	AUTO MEMORY	BAND	AUTO
⑦⑦ KS4	(VOICE ON/OFF)	(TIMER SET)	INPUT \triangleleft	INPUT \triangleright
⑦⑧ KS5	(CLOCK SET)	(TIMER MODE)	ON/STANDBY	TAPE2(MONITOR)
	⌘ VOICE ON/OFF			
KS6	–	–	–	–
⑧① KS7	DSW1(D29)	DSW2(D30)	DSW3(D31)	DSW4
⑧② KS8	–	–	–	DSW5(D34)

DSW1~DSW4 : Tuner destination

DSW5 : R-A100/A150 or R-V300/V350 Model destination

PTY,TA / NEWS / INFO / DISPLAY(RDS) : RDS function model (R-V350/A150)

() : R-V300 / V350 / A100 function

⌘ : R-A150 (E,T type) function

2-3 Pin description

No.	Name	I/O	Description
1	Vdd	I	Power supply(+5V)
2-5	KR3-0	I	Key return 3-0
6,7,	ENC_VOL1,2	I	Encoder pulse detect1,2
8	HP_DET	I	Headphone detect
			L: Yes
9	CE	I	Chip enable
			L: Enable
10	RESET	I	Microprocessor reset
			L: Reset
11,12	X1,2	I	Clock generator
13	IC(Vpp)	-	Connect to Vss
14,15	XT1,2	-	Sub clock generator
16	Vdd	-	Power supply(+5V)
17	HP_MUTE	O	Mute of headphones
18	PROTECTION	I	Protection detection
19	SBUSY	I/O	Serial data busy
20	SDATA	I/O	Serial data
21	DSP_CLK	O	Clock for DSP
22	DSP_DATA	O	Data for DSP
23	DSP_ST	O	Strobe for DSP
24	MUTE	O	Mute control
			L: Mute ON
25	Avss	-	GND of A/D converter
26	PLL_DO	O	PLL DO
27	PLL_CE	O	Chip enable for PLL
28	PLL_DATA	O	Data detection for PLL
29	PLL_CLK	O	Clock for PLL
30	T_MUTE	O	Mute for tuner
			L: Mute ON
31	STEREO	I	Stereo signal detection
			L: Stereo
32	SD	I	Synchro signal detection
			L: SD detection
33	RDS_SLEVEL	I	Signal level of RDS
34	Avdd	-	Analog power supply for A/D converter
35	Avref	-	Reference voltage for A/D converter
36	RDS_CLK	I	Clock for RDS
37	RDS_DATA	I	Data for RDS
38	N.C.	I	No used
39	REMOCON_IN	I	Input port of remote control signal
40	Vss	-	GND

R-A100/A150/V300/V350

CIRCUIT DESCRIPTION

No.	Name	I/O	Description
41	+10dB_ATT	O	+10Db attenuator L: ATT ON
42	VOL_DATA	I/O	Electric volume control data
43	TAP	O	LO-HI tap change-over R-V300/V350
	VCR_REC	O	VCR REC change-over R-A100/A150
44,45	N.C.	I	No used
46	Vdd	-	Power supply(+5V)
47,48	N.C.	I	No used
49	CS_RELAY	O	Center and surround speaker relay control L: C,Sch OFF R-V300/V350
		I	NPUT LEVEL O Input level change-over H: 0dB R-A100/A150
50	F_RELAY	O	Front speaker relay control L: L,Rch OFF
51	TC9215	O	Vidual selector change-over R-V300/V350
	TAPE1_REC	O	TAPE! REC change-over R-A100/A150
52	VOICE_CTRL	O	Voice activation / Standby LED
53	SEL_STB1	O	Strobe signal for selector IC
54	SEL_DATA	O	Data signal for selector IC
55	SEL_CLK	O	Clock signal for selector IC
56	VOICE	I	Input port of voice activation
57	VOL_CLK	O	Clock signal for electric volume
58,59	N.C.	I	No used
60	REM_REWRREQ	O	Rewrite request signal of interlocution remocon data
61	REM_RWR	I	Rewrite in signal of interlocution remocon data
62	REM_REREN	I	Transmit signal of interlocution remocon data L: Transmission
63-70	INP 0-7	O	Remote control data bits 0-7
71	VSEL1	O	Vidual selector
72	POWER	O	Power relay control
73-78	SEG11-16	O	Display segment control 11-16 / Key scan 0-5
79	Vload	-	Connect to PLL down resistor
80	SEG10	O	Display segment control 10
81	SEG9	O	Display segment control 9 / Key scan 7 8Tuner destination)
82	SEG8	O	Display segment control 8 / Key scan 8 (Model discrimination)
83-89	SEG1-7	O	Display segment control 1-7
90-100	GRID1-11	O	Display grid control 1-11

2-4 DESTINATION LIST OF TUNER

Destination	Band	Frequency Range	Channel Space	IF	PLL Frequency	Diode SW (X14-)			
						DSW3	DSW2 (D31)	DSW1 (D30)	DSW0 (D29)
K1 (1700)	FM	87.5MHz~108.0HMz	100kHz	+10.7MHz	50kHz	0	0	0	0
	AM	530kHz~1700kHz	10kHz	+450kHz	10kHz				
K2 (1610)	FM	87.5MHz~108.0HMz	100kHz	+10.7MHz	25kHz	0	0	0	1
	AM	530kHz~1610kHz	10kHz	+460kHz	10kHz				
E1	FM	87.5MHz~108.0HMz	50kHz	+10.7MHz	25kHz	0	0	1	1
	AM	531kHz~1602kHz	9kHz	+450kHz	9kHz				
E3 (RDS)	FM	87.5MHz~108.0HMz	50kHz	+10.7MHz	25kHz	0	1	0	1
	AM	531kHz~1602kHz	9kHz	+450kHz	9kHz				
E4 (LW) (RDS)	FM	87.5MHz~108.0HMz	50kHz	+10.7MHz	25kHz	0	1	1	0
	MW	531kHz~1602kHz	9kHz	+450kHz	9kHz				
	LW	153kHz~279kHz	9kHz	+450kHz	9kHz				
M	K2 / E1 change only setting DSW1 (DSW1=0:K2/1:E1)					0	0	(Q5,D33)	1

Diode SW(DSWx) 0=No diode (Static mode,LOW)

1=Diode (Static mode,HIGH)

X=Transistor SW (0=OFF / 1=ON)

2-5 MODEL DISTINATION

MODEL	DIODE SW (X14)D34
R-V300/V350	0
R-A100/A150	1

R-A100/A150/V300/V350

CIRCUIT DESCRIPTION

3. Test mode

Setting:	While pressing the <input type="checkbox"/> INPUT key, plug the AC power cord into the AC wall outlet. All the fluorescent display indicates. (The all-illuminated state is cleared by pressing any main unit keys.)
Cancelling:	Plug the AC power cord out from the AC wall outlet.

3-1 Contents of the test mode

No.	OPERATION KEYS	TUNER MODE	EXCEPT TUNER	REMARKS																																							
1	INPUT		<div style="border: 1px solid black; padding: 5px; display: inline-block;"> →87.50←→CD←→LD←→VCR← →TAPE1←→AUX← </div>																																								
2	MULTI. CONTROL LEVEL ∇ / ^	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> →01←→02←→39←→40← </div> CHANGES THE PRESET CH. 01 THROUGH 40																																									
3	TIMER SET		PRO LOGIC ←→ 3 STEREO TEST TONE ON/OFF (PRESS AUTO KEY) <input type="checkbox"/> PRO LOGIC ON ←→ OFF	R-V300/V350 R-A100/A150																																							
4	TIMER MODE		<div style="border: 1px solid black; padding: 5px; display: inline-block;"> →AREN←→JAZZ CLUB←→STADIUM← </div> <input type="checkbox"/> DSP ON ←→ OFF	R-V300/V350 R-A100/A150																																							
5	CLOCK		<input type="checkbox"/> STEREO ON ←→ OFF	R-A100/A150																																							
6	A.MEMO	FL DISPLAY ON ←→ OFF	SRS ON ←→ OFF	R-A100/A150																																							
7	AUTO	<input type="checkbox"/> AUTO ON ←→ OFF	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> →TEST Lch←→TEST Cch←→TEST Rch←→TEST Sch← </div> <div style="border: 1px solid black; padding: 5px; display: inline-block;"> →S.DIRECT ON←→S.DIRECT ON / MUTE ON←→OFF← </div>	R-V300/V350 R-A100/A150																																							
8	MULTI.CONTROL MODE	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> ↓ BASS 0dB ↓ TREBLE 0dB ↓ L/R, BALANCE ↓ INPUT 0dB ↓ </div>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">MODE</th> <th colspan="3">KEY</th> </tr> <tr> <th>MULTI. CONTROL ∇ / LEVEL ^</th> <th>TUNING DOWN / UP</th> <th>BAND</th> </tr> </thead> <tbody> <tr> <td>% EXCEPT R-A100/A150</td> <td></td> <td></td> <td></td> </tr> <tr> <td>VOLUME</td> <td></td> <td>-89dB ←→ 0dB</td> <td>-40dB</td> </tr> <tr> <td>SP%</td> <td></td> <td>MIN. ←→ MAX</td> <td>0dB</td> </tr> <tr> <td>DELAY%</td> <td></td> <td>15 ←→ 30</td> <td>20</td> </tr> <tr> <td>EFFECT%</td> <td></td> <td>1 ←→ 5</td> <td>3</td> </tr> <tr> <td>L/R, BALANCE</td> <td>DOWN ←→ UP</td> <td>LMIN ←→ RMAX</td> <td>CENTER</td> </tr> <tr> <td>TONE</td> <td></td> <td>MIN ←→ MAX</td> <td>FLAT</td> </tr> <tr> <td>INPUT</td> <td></td> <td>-6dB ←→ 0dB</td> <td>0dB</td> </tr> </tbody> </table>	MODE	KEY			MULTI. CONTROL ∇ / LEVEL ^	TUNING DOWN / UP	BAND	% EXCEPT R-A100/A150				VOLUME		-89dB ←→ 0dB	-40dB	SP%		MIN. ←→ MAX	0dB	DELAY%		15 ←→ 30	20	EFFECT%		1 ←→ 5	3	L/R, BALANCE	DOWN ←→ UP	LMIN ←→ RMAX	CENTER	TONE		MIN ←→ MAX	FLAT	INPUT		-6dB ←→ 0dB	0dB	
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TONE		MIN ←→ MAX	FLAT																																								
INPUT		-6dB ←→ 0dB	0dB																																								
9	PTY		<div style="border: 1px solid black; padding: 5px; display: inline-block;"> →INPUT SELECTOR←→OFF.S-LEVEL←→ON.S-LEVEL← </div>	R-V350(E/T)																																							
	TAPE2		TUNER MODE ONLY	R-A150(E/T)																																							
10	DISPLAY	TIMER NO PS ←→ 01 87.50		E, T type only																																							
11	TA/NEWS/INFO.		<div style="border: 1px solid black; padding: 5px; display: inline-block;"> →TA←→NEWS←→INFO←→OFF← </div> Change the segment cyclically																																								

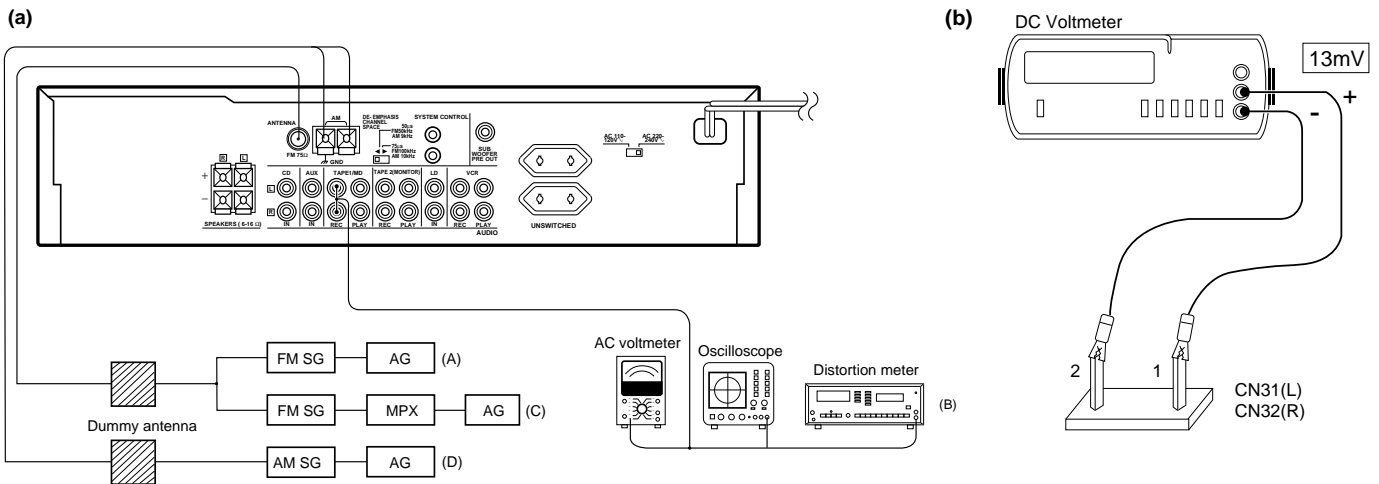
3-2 Error message

DISPLAY	DESCRIPTION
ERR1	Main u-COM sub clock no output
ERR2	Main u-COM sub clock frequency NG

R-A100/A150/V300/V350

ADJUSTMENT

No.	ITEM	INPUT SETTING	OUTPUT SELECTOR	TUNER/AMP SETTING	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION		SELECTOR : FM					
1	DISCRIMINATOR L31↔L32 (E, T only)	(A) 98.0MHz 1kHz, ±40kHz dev (E, T type) 60dBu (ANT INPUT)	Connect a DC voltmeter between port of CN2	AUTO 98.0MHz	L31 (X05-)	0V	(a)
			(B)		L32 (X05-)	Minimum distrotrion	
2	DISTORTION (STEREO)	(C) 98.0MHz 1kHz, ±40kHz dev pilot: ±6kHz dev 60dBu (ANT INPUT)	(B)	AUTO (98.0MHz)	IFT (W02-)	Minimum distrotrion	(a)
AUDIO SECTION R-A100/A150 ONLY							
1	B CLASS IDLECURRENT	—	Connect a DC voltmeter	Volume: Minimum Selector: any modes other than TUNER	CN31 : Lch CN32 : Rch	13mV	(b)



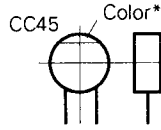
R-A100/A150/V300/V350

PARTS DESCRIPTIONS

CAPACITORS

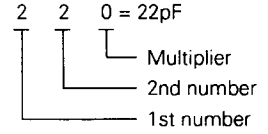
CC 45 TH 1H 220 J
 1 2 3 4 5 6

- 1 = Type ... ceramic, electrolytic, etc.
- 2 = Shape ... round, square, ect.
- 3 = Temp. coefficient
- 4 = Voltage rating
- 5 = Value
- 6 = Tolerance



Capacitor value

- 010 = 1pF
- 100 = 10pF
- 101 = 100pF
- 102 = 1000pF = 0.001μF
- 103 = 0.01μF



Temperature coefficient

1st Word	C	L	P	R	S	T	U
Color*	Black	Red	Orange	Yellow	Green	Blue	Violet
ppm/°C	0	-80	-150	-220	-330	-470	-750

2nd Word	G	H	J	K	L
ppm/°C	±30	±60	±120	±250	±500

Example : CC45TH = -470 ± 60ppm/°C

Tolerance (More than 10pF)

Code	C	D	G	J	K	M	X	Z	P	No code
(%)	±0.25	±0.5	±2	±5	±10	±20	+40 -20	+80 -20	+100 -0	More than 10μF -10 ~ +50 Less than 4.7μF -10 ~ +75

(Less than 10pF)

Code	B	C	D	F	G
(pF)	±0.1	±0.25	±0.5	±1	±2

Voltage rating

2nd word \ 1st word	A	B	C	D	E	F	G	H	J	K	V
0	1.0	1.25	1.6	2.0	2.5	3.15	4.0	5.0	6.3	8.0	-
1	10	12.5	16	20	25	31.5	40	50	63	80	35
2	100	125	160	200	250	315	400	500	630	800	-
3	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	-

Chip capacitors

(EX) C C 7 3 F S L 1 H 0 0 0 J
 1 2 3 4 5 6 7

(Chip) (CH, RH, UJ, SL)

(EX) C K 7 3 F F 1 H 0 0 0 Z
 1 2 3 4 5 6 7

(Chip) (B, F)

Refer to the table above.

- 1 = Type
- 2 = Shape
- 3 = Dimension
- 4 = Temp. coefficient
- 5 = Voltage rating
- 6 = Value
- 7 = Tolerance

Dimension (Chip capacitors)

Dimension code	L	W	T
Empty	5.6 ± 0.5	5.0 ± 0.5	Less than 2.0
A	4.5 ± 0.5	3.2 ± 0.4	Less than 2.0
B	4.5 ± 0.5	2.0 ± 0.3	Less than 2.0
C	4.5 ± 0.5	1.25 ± 0.2	Less than 1.25
D	3.2 ± 0.4	2.5 ± 0.3	Less than 1.5
E	3.2 ± 0.2	1.6 ± 0.2	Less than 1.25
F	2.0 ± 0.3	1.25 ± 0.2	Less than 1.25
G	1.6 ± 0.2	0.8 ± 0.2	Less than 1.0

RESISTORS

Chip resistor (Carbon)

(EX) R K 7 3 E B 2 B 0 0 0 J
 1 2 3 4 5 6 7

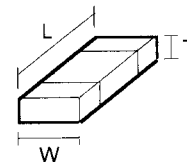
(Chip) (B, F)

Carbon resistor (Normal type)

(EX) R D 1 4 B B 2 C 0 0 0 J
 1 2 3 4 5 6 7

- 1 = Type
- 2 = Shape
- 3 = Dimension
- 4 = Temp. coefficient
- 5 = Rating wattage
- 6 = Value
- 7 = Tolerance

Dimension



Dimension (Chip resistor)

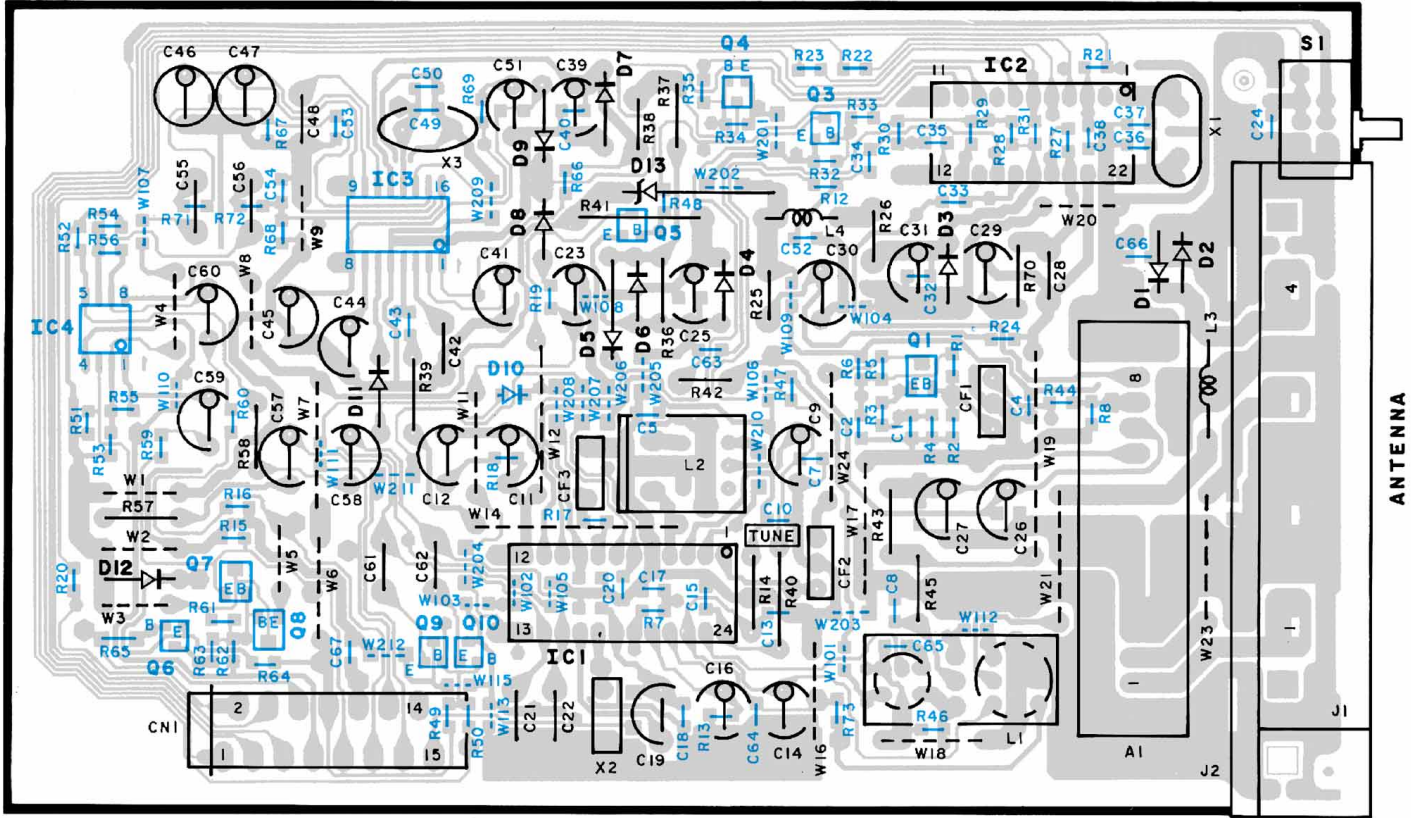
Dimension code	L	W	T
E	3.2 ± 0.2	1.6 ± 0.2	1.0
F	2.0 ± 0.3	1.25 ± 0.2	1.0
G	1.6 ± 0.2	0.8 ± 0.2	0.5 ± 0.1

Rating wattage

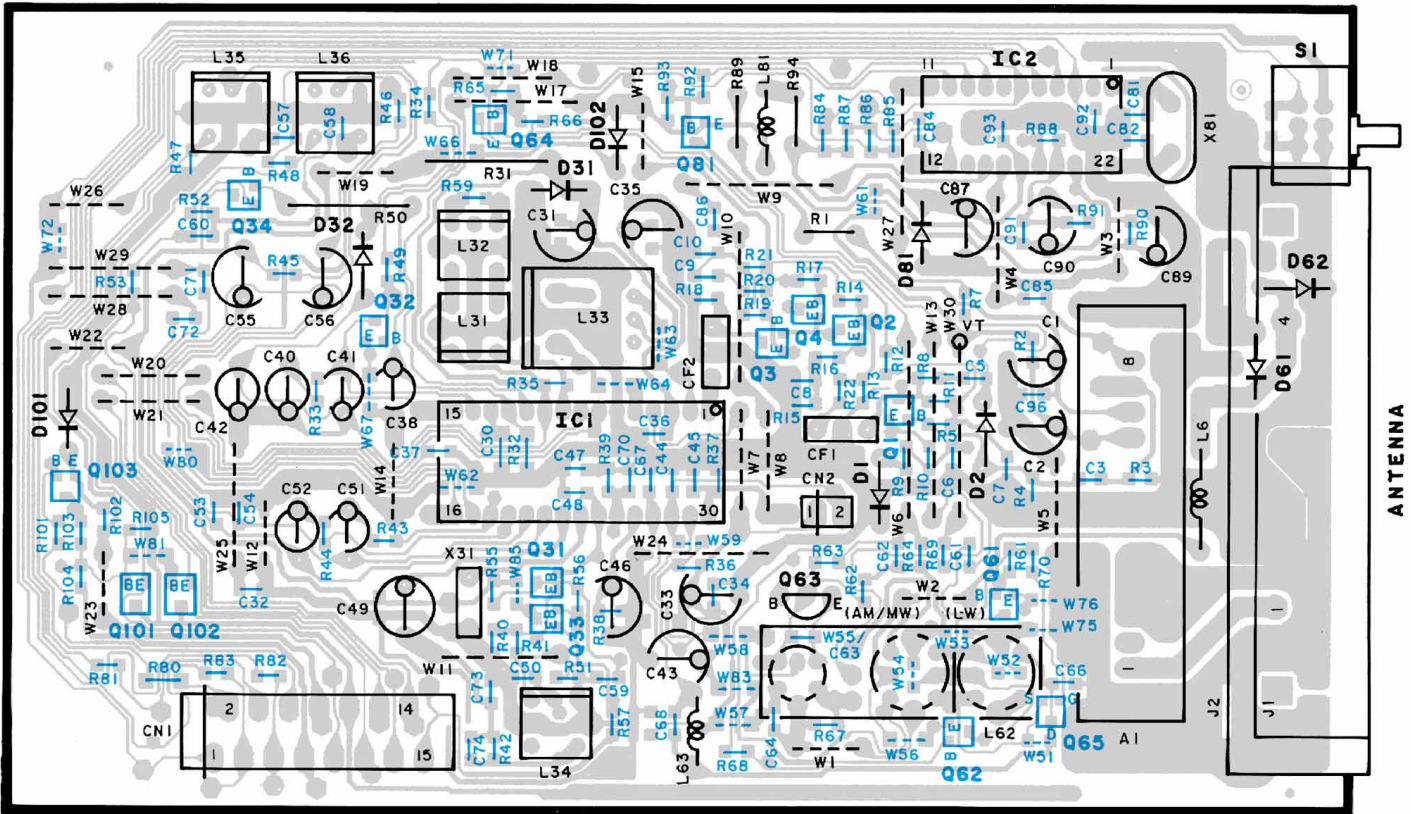
Code	Wattage	Code	Wattage	Code	Wattage
1J	1/16W	2C	1/6W	3A	1W
2A	1/10W	2E	1/4W	3D	2W
2B	1/8W	2H	1/2W		

PC BOARD(Component side view)

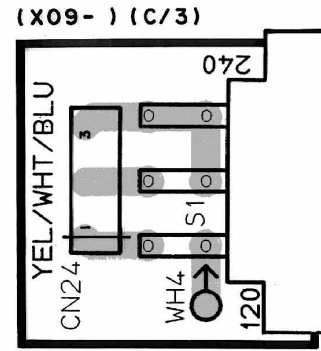
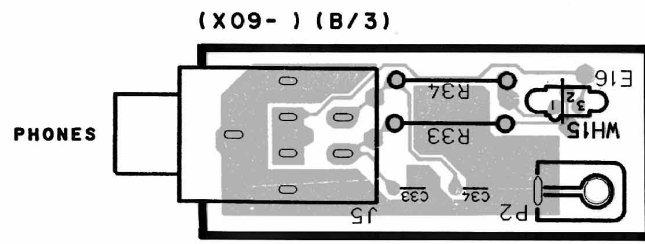
(X05-4670-20) J70-0959-11



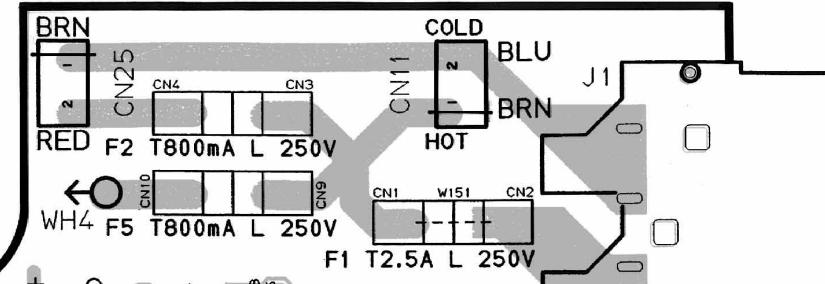
(X05-468X-XX) J70-0960-21



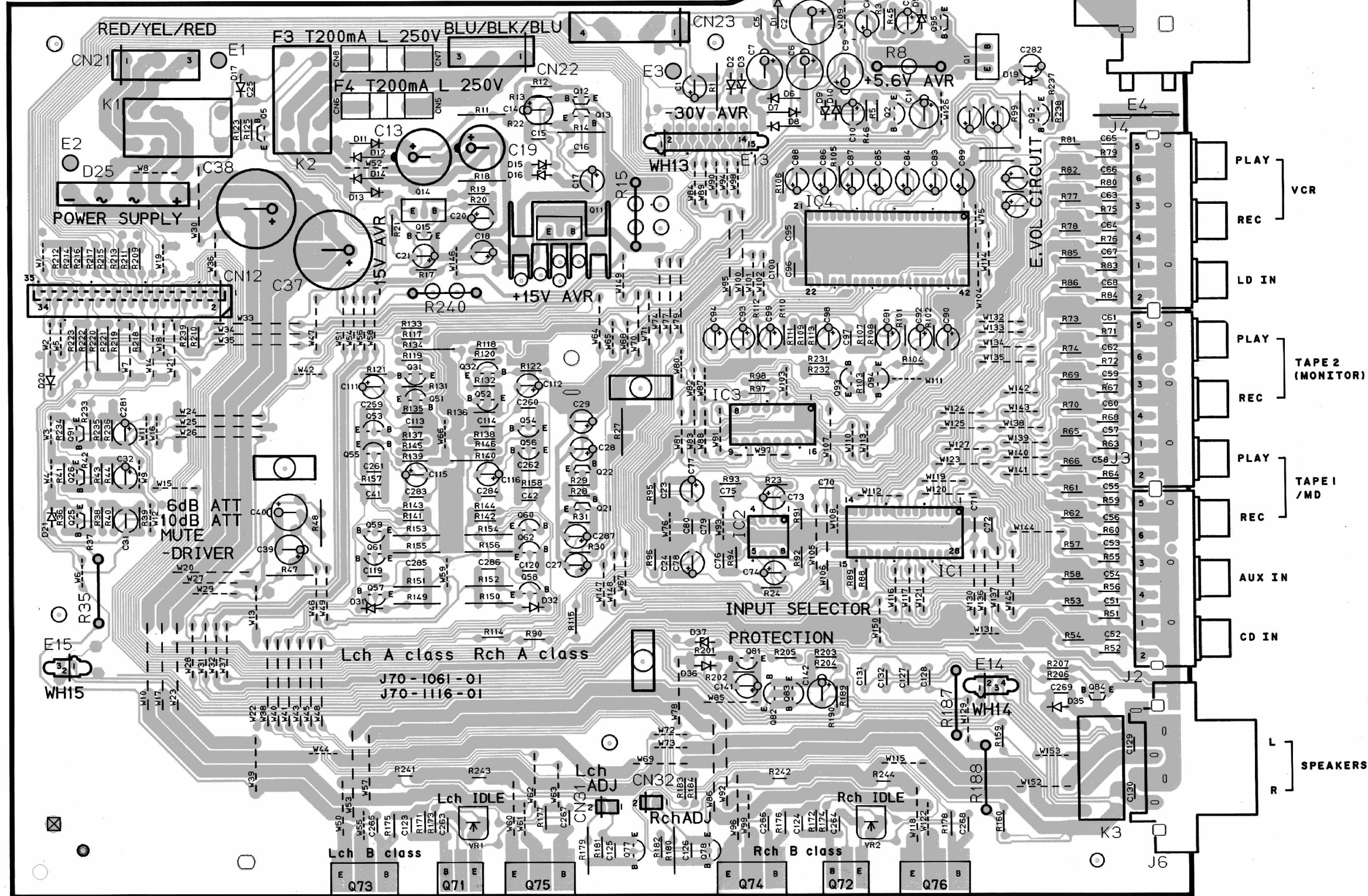
PC BOARD(Component side view)



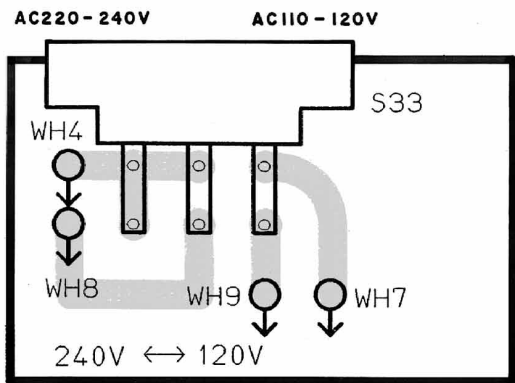
AC220-240V
AC110-120V



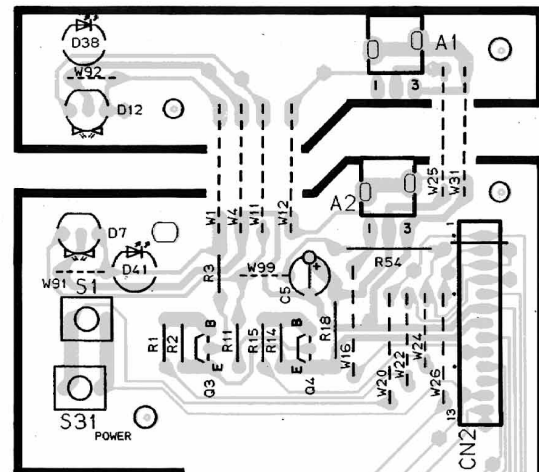
(X09-478X-XX)
(X09-473X-XX) (A/3)



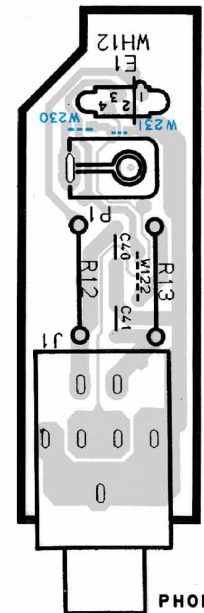
PC BOARD(Component side view)



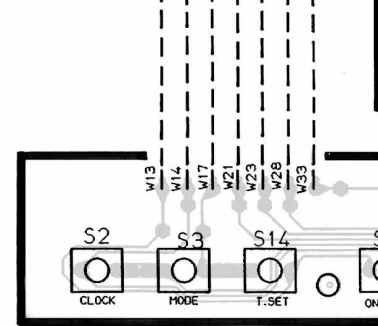
(X14-) (G/II)



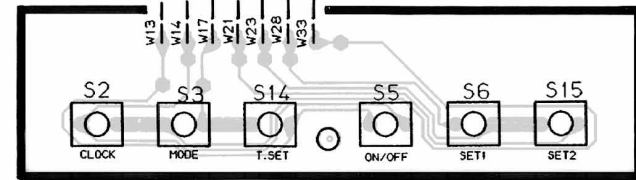
(X14-) (F/II)



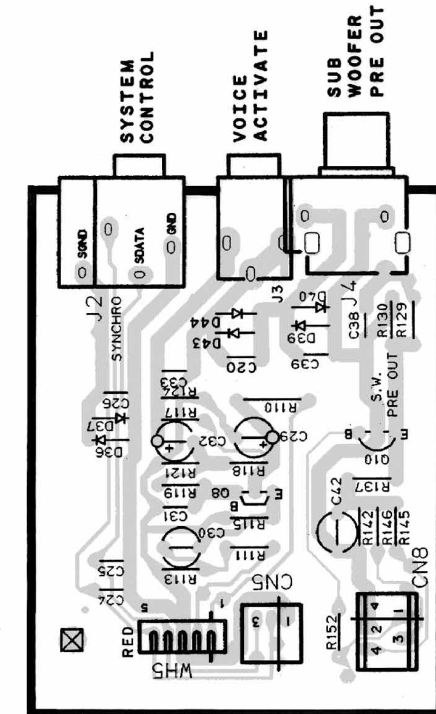
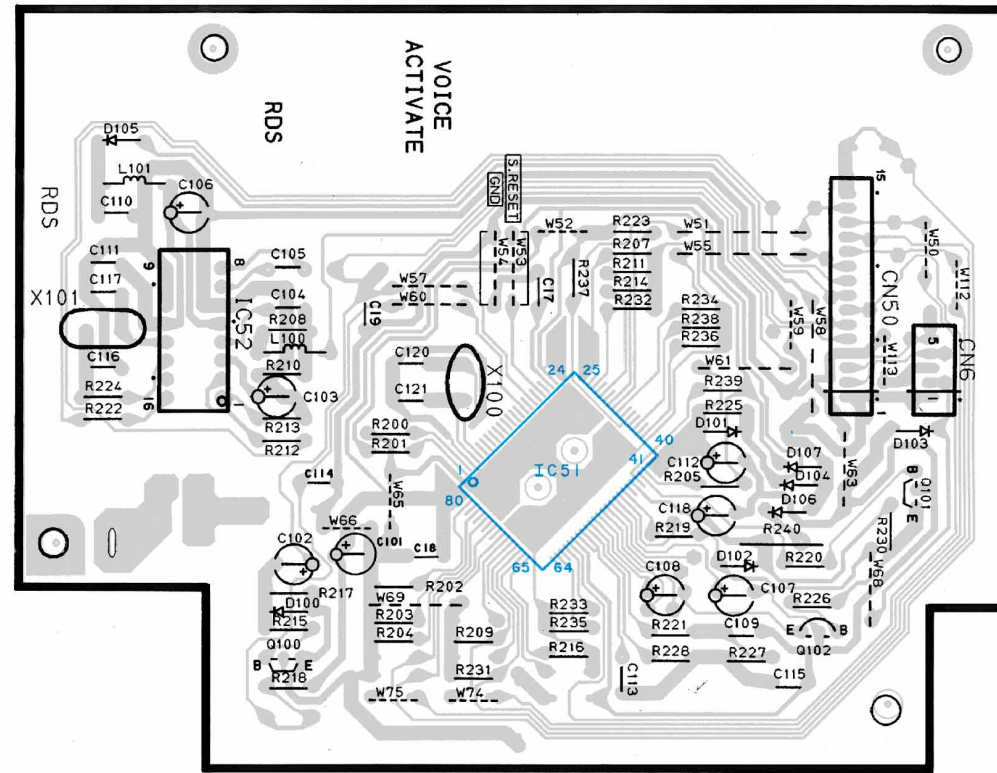
(X14-) (C/II)



(X14-) (J/II)

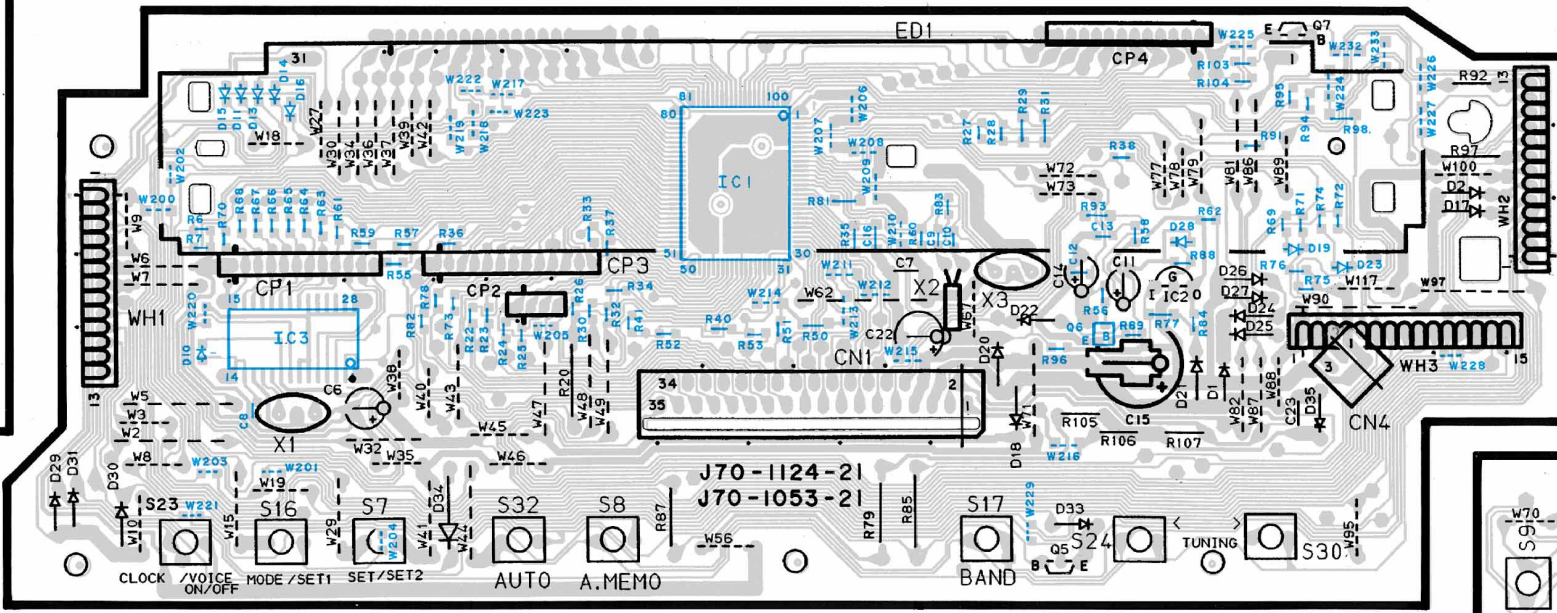


(X14-) (B/II)

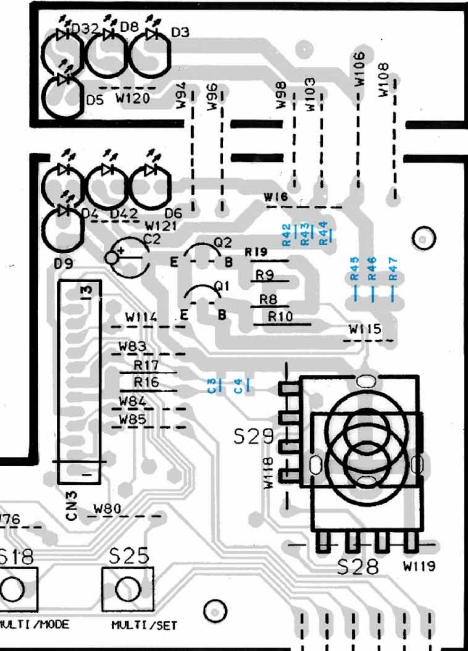


(X14-) (E/II)

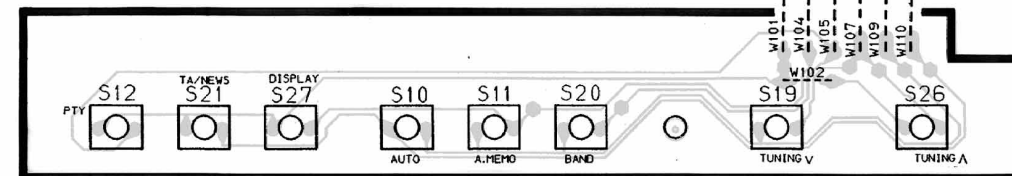
(X14-448X-XX)
(X14-464X-XX) (A/II)



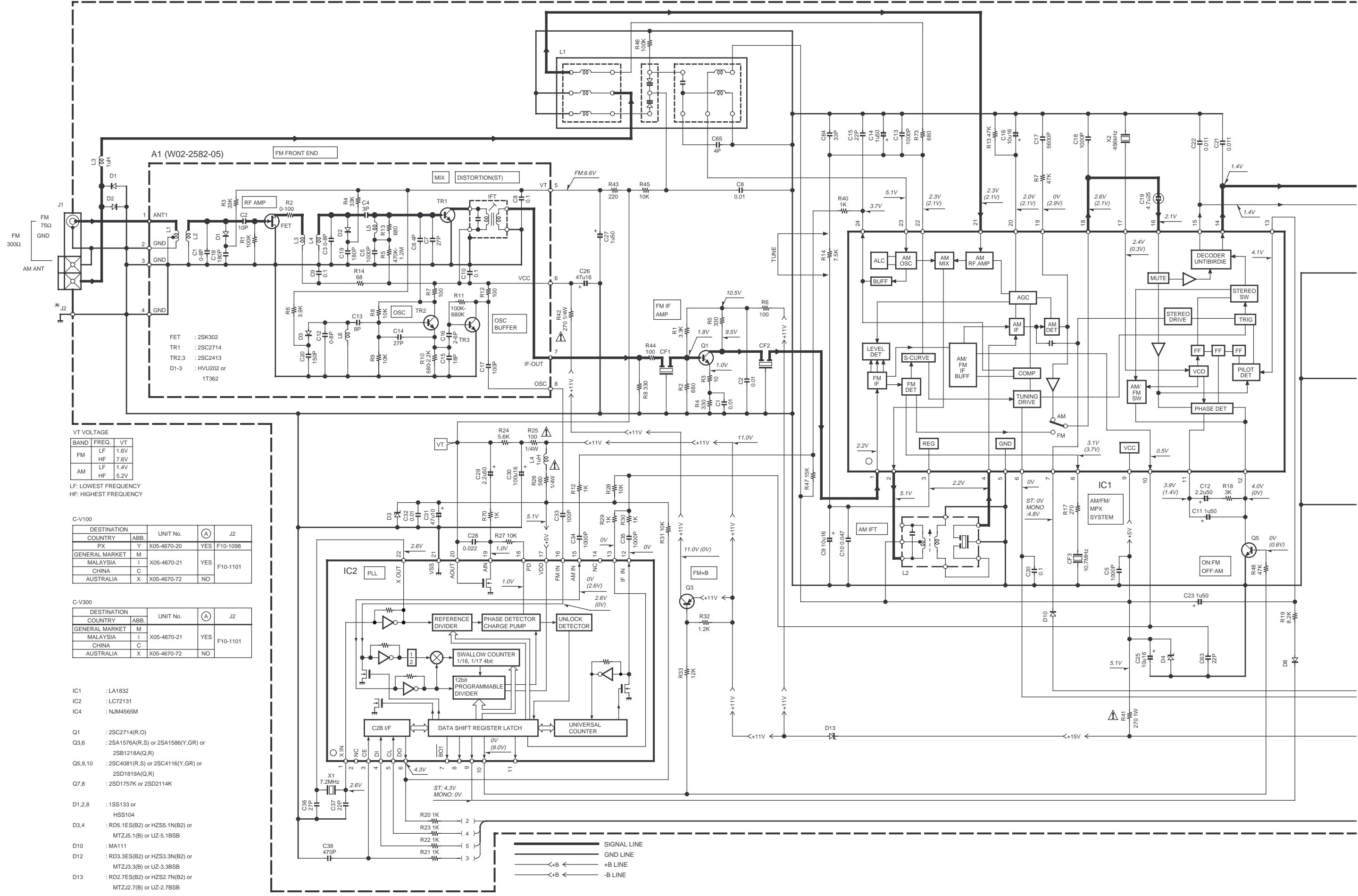
(X14-) (H/II)



(X14-) (D/II)



(X14-) (I/II)



VT VOLTAGE

BAND	FREQ.	VT
FM	LF	1.6V
	HF	7.6V
AM	LF	1.4V
	HF	5.2V

LF: LOWEST FREQUENCY
HF: HIGHEST FREQUENCY

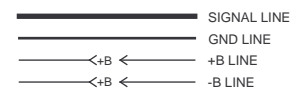
C-V100

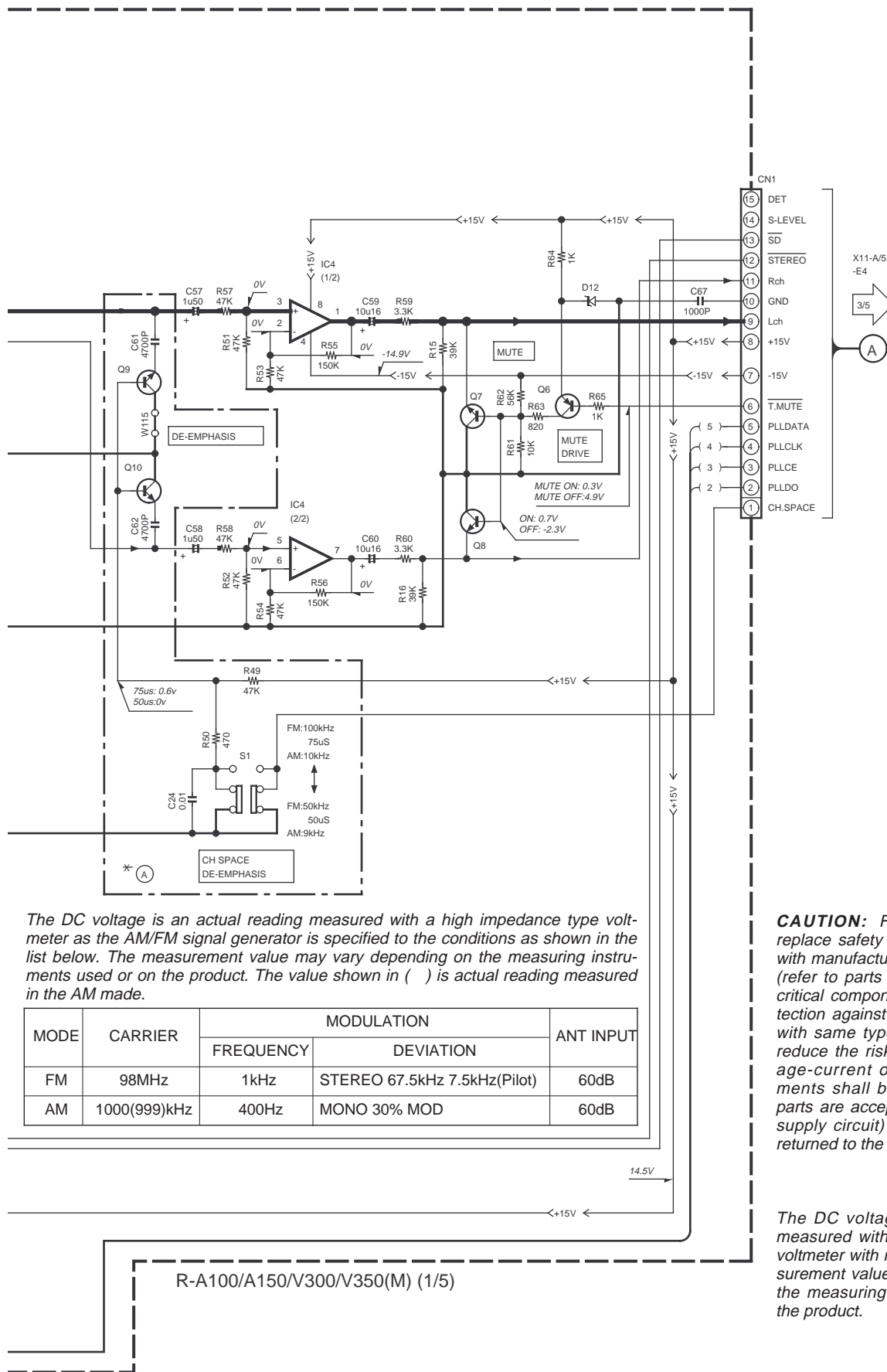
DESTINATION	COUNTRY	ABB.	UNIT No.	(A)	J2
PX	Y		X05-4670-20	YES	F10-1098
GENERAL MARKET	M				
MALAYSIA	I		X05-4670-21	YES	F10-1101
CHINA	C				
AUSTRALIA	X		X05-4670-72	NO	

C-V300

DESTINATION	COUNTRY	ABB.	UNIT No.	(A)	J2
GENERAL MARKET	M				
MALAYSIA	I		X05-4670-21	YES	F10-1101
CHINA	C				
AUSTRALIA	X		X05-4670-72	NO	

- IC1 : LA1832
- IC2 : LC72131
- IC4 : NJM4565M
- Q1 : 2SC2714(R,O)
- Q3,6 : 2SA1576A(R,S) or 2SA1586(Y,GR) or 2SB1218A(Q,R)
- Q5,9,10 : 2SC4081(R,S) or 2SC4116(Y,GR) or 2SD1819A(Q,R)
- Q7,8 : 2SD1757K or 2SD2114K
- D1,2,8 : 1S5133 or HSS104
- D3,4 : RD5.1ES(B2) or HZS5.1N(B2) or MTZJ5.1(B) or UZ-5.1BSB
- D10 : MA111
- D12 : RD3.3ES(B2) or HZS3.3N(B2) or MTZJ3.3(B) or UZ-3.3BSB
- D13 : RD2.7ES(B2) or HZS2.7N(B2) or MTZJ2.7(B) or UZ-2.7BSB





The DC voltage is an actual reading measured with a high impedance type voltmeter as the AM/FM signal generator is specified to the conditions as shown in the list below. The measurement value may vary depending on the measuring instruments used or on the product. The value shown in () is actual reading measured in the AM made.

MODE	CARRIER	MODULATION		ANT INPUT
		FREQUENCY	DEVIATION	
FM	98MHz	1kHz	STEREO 67.5kHz 7.5kHz(Pilot)	60dB
AM	1000(999)kHz	400Hz	MONO 30% MOD	60dB

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

R-A100/A150/V300/V350

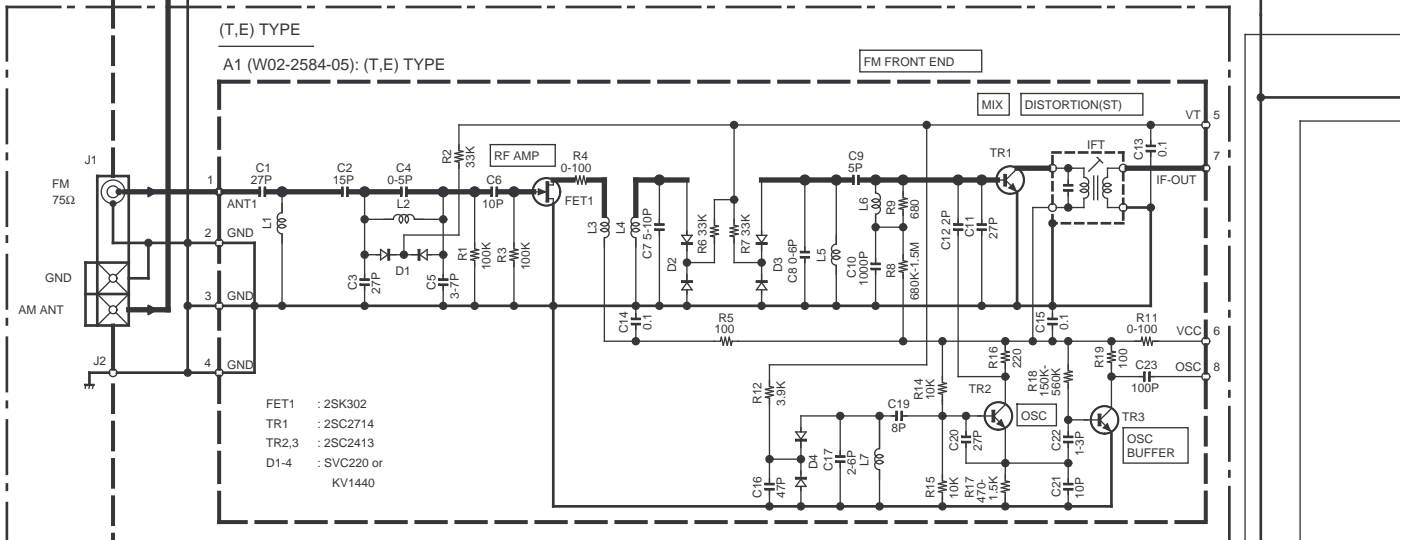
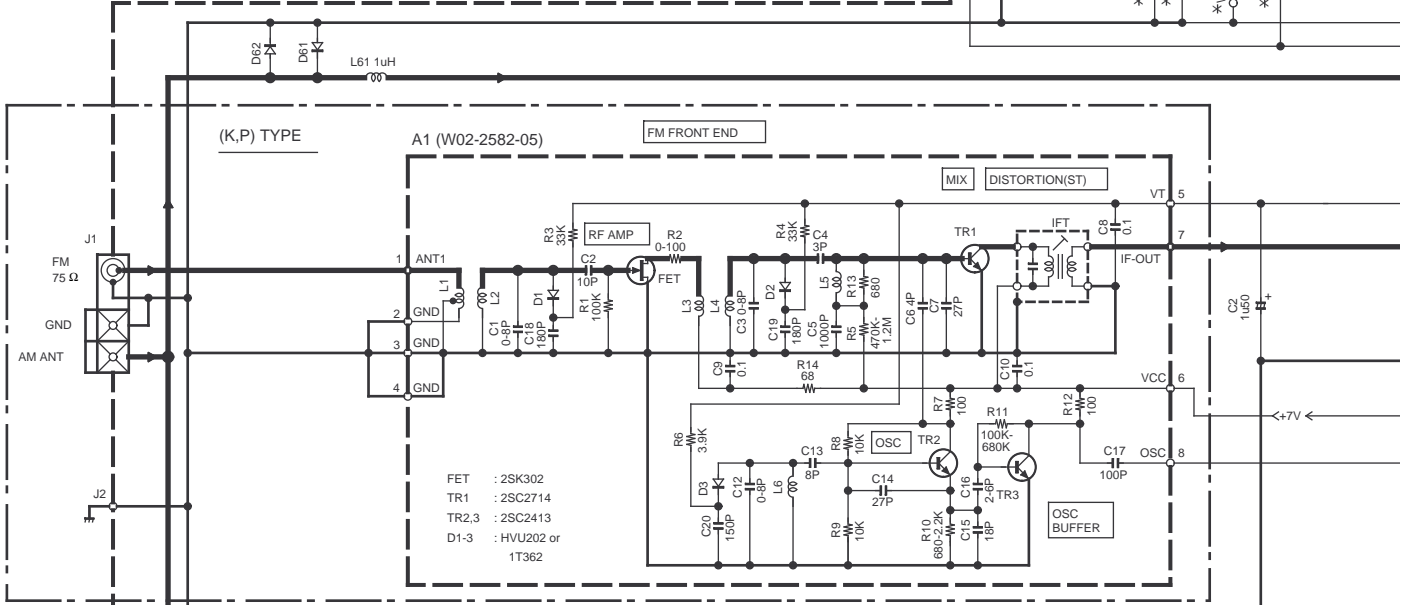
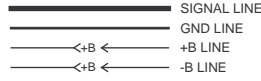
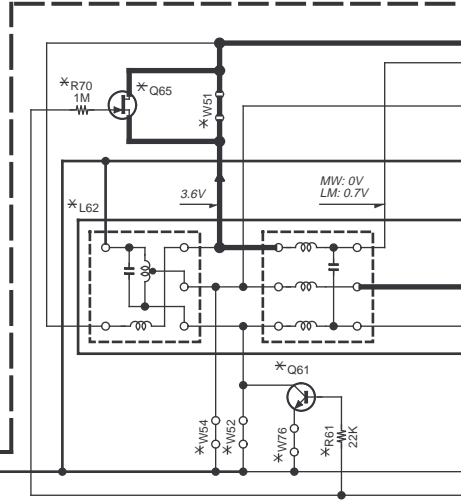
C-V150/V350 (X05-468X-XX)

DESTINATION COUNTRY ABB.	UNIT No.	(A) - (C)	R3	R16, 20	R61-66, 68,70	C53, 54	C62, 63	C73	Q61-65	CF1,2	L62	W11	W6,13, 56,76	W51,52, 54,55
EUROPE	E	2-71	YES	1.8K	10	NO	NO	NO	NO	L72-0536 (MS3)	L39-1351	NO	NO	YES
U.K.	T	0-51	YES	1.8K	10	YES	YES	NO	YES	L72-0536 (MS3)	L39-1352	NO	YES	NO

C-V100 (X05-4680-10)

DESTINATION COUNTRY ABB.	UNIT No.	(A) - (C)	R3	R16, 20	R61-66, 68,70	C53, 54	C62, 63	C73	Q61-65	CF1,2	L62	W11	W6,13, 56,76	W51,52, 54,55
U.S.A.	K	0-10	NO	560	15	NO	NO	YES	NO	L72-0596 (MS2)	L39-1351	YES	NO	YES
CANADA	P	0-10	NO	560	15	NO	NO	YES	NO	L72-0596 (MS2)	L39-1351	YES	NO	YES

R-A150 (E,T)
R-V350 (K,P,E,T)



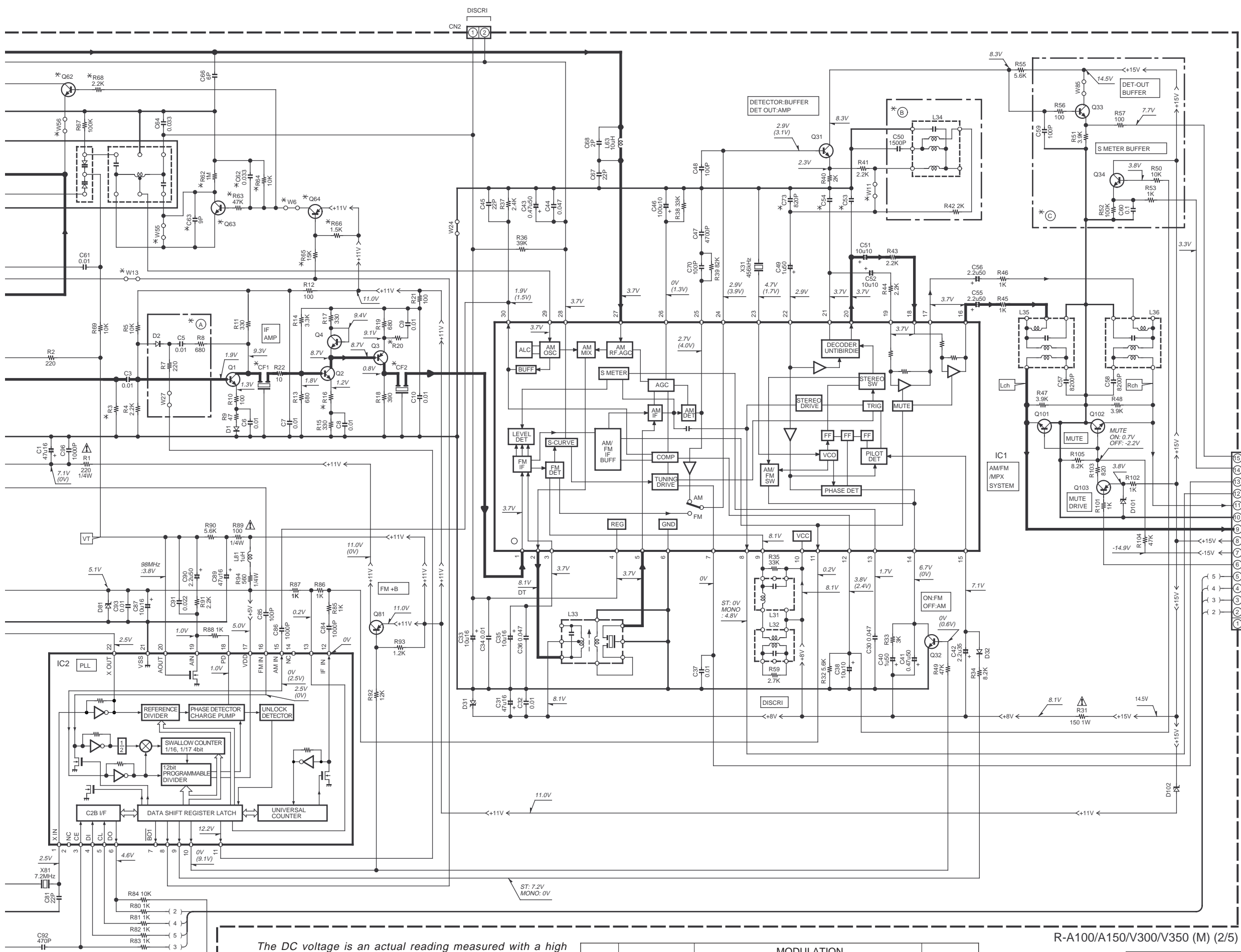
IC1 : LA1836	D1,2,32,61,62 : 1SS133 or HSS104
IC2 : LC72131	D31 : RD8.2ES(B2) or HZS8.2N(B2)
Q1,2,4,31-34,61,62 : 2SC4081(R,S) or 2SC4116(Y,GR)	D81 : RD5.1ES(B2) or HZS5.1(B2)
Q3,64,81,103 : 2SA1576A(R,S) or 2SA1586(Y,GR)	D101 : RD3.3ES(B2) or HZS3.3N(B2)
Q63 : 2SC2878(B)	D102 : RD2.7ES(B2) or HZS2.7N(B2)
Q65 : 2SK302(Y,GR)	
Q101,102 : 2SD1757K	

VT VOLTAGE

BAND	FREQ.	VT
FM	LF	1.6V
	HF	7.8V
AM	LF	1.3V
	HF	5.0V

LF: LOWEST FREQUENCY
HF: HIGHEST FREQUENCY

C82 27P



R-A100/A150/V300/V350 (M) (2/5)

The DC voltage is an actual reading measured with a high impedance type voltmeter as the AM/FM signal generator is specified to the conditions as shown in the list below. The measurement value may vary depending on the measuring instruments used or on the product. The value shown in () is actual reading measured in the AM made.

MODE	CARRIER	MODULATION		ANT INPUT
		FREQUENCY	DEVIATION	
FM	98MHz	1kHz	STEREO 67.5kHz 7.5kHz(Pilot)	60dB
AM	1000(999)kHz	400Hz	MONO 30% MOD	60dB

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

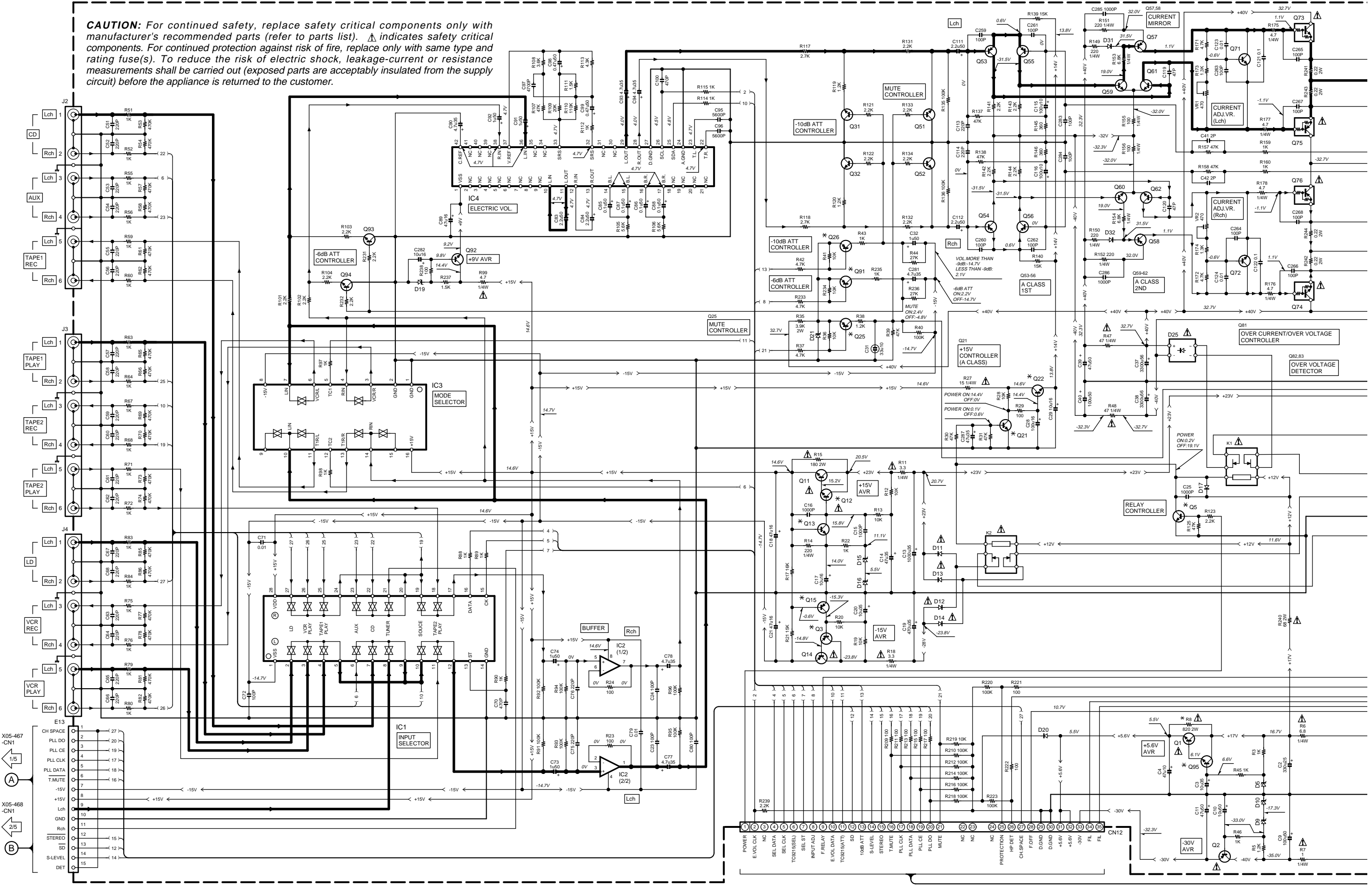
Y05-3540-20

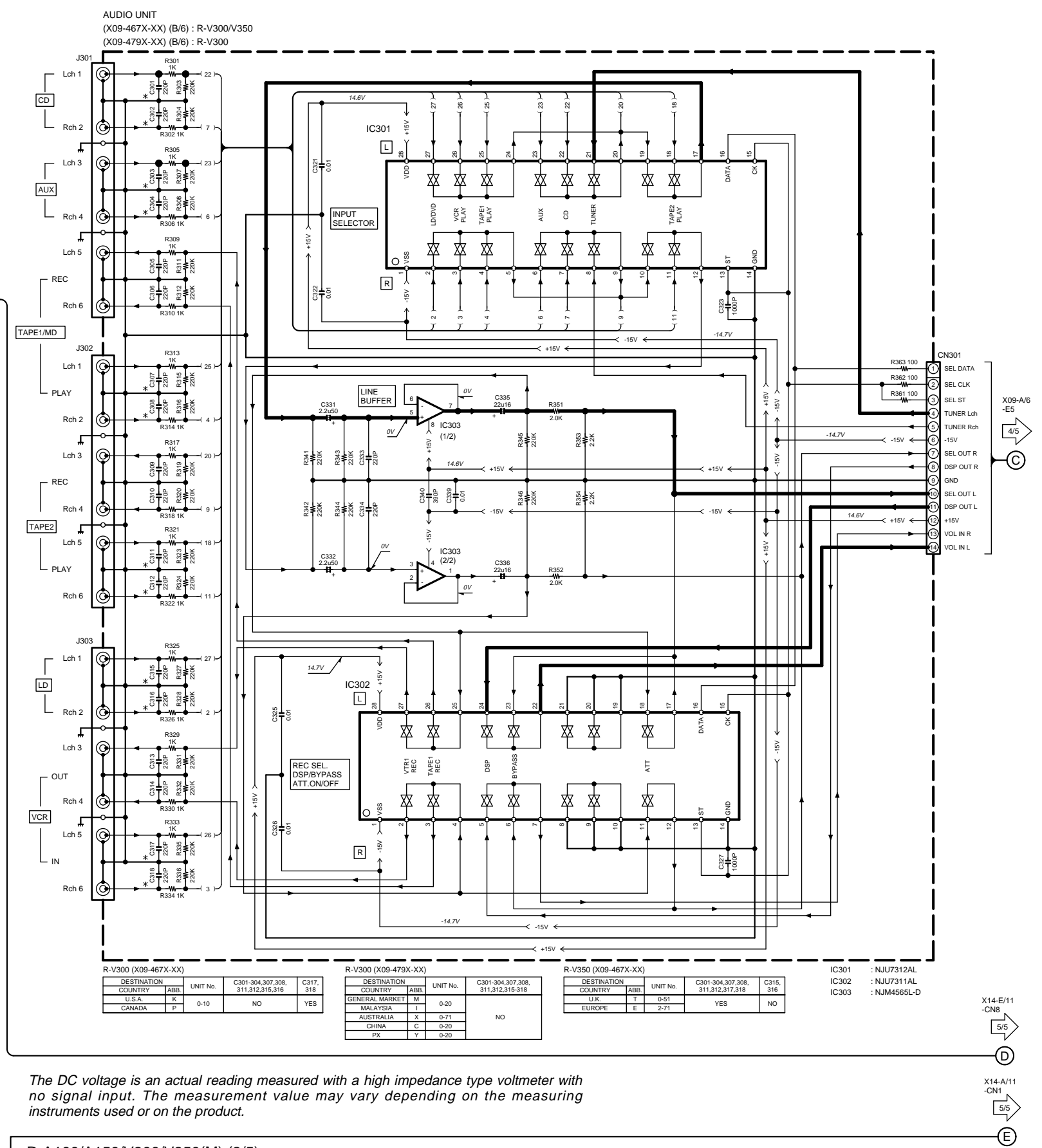
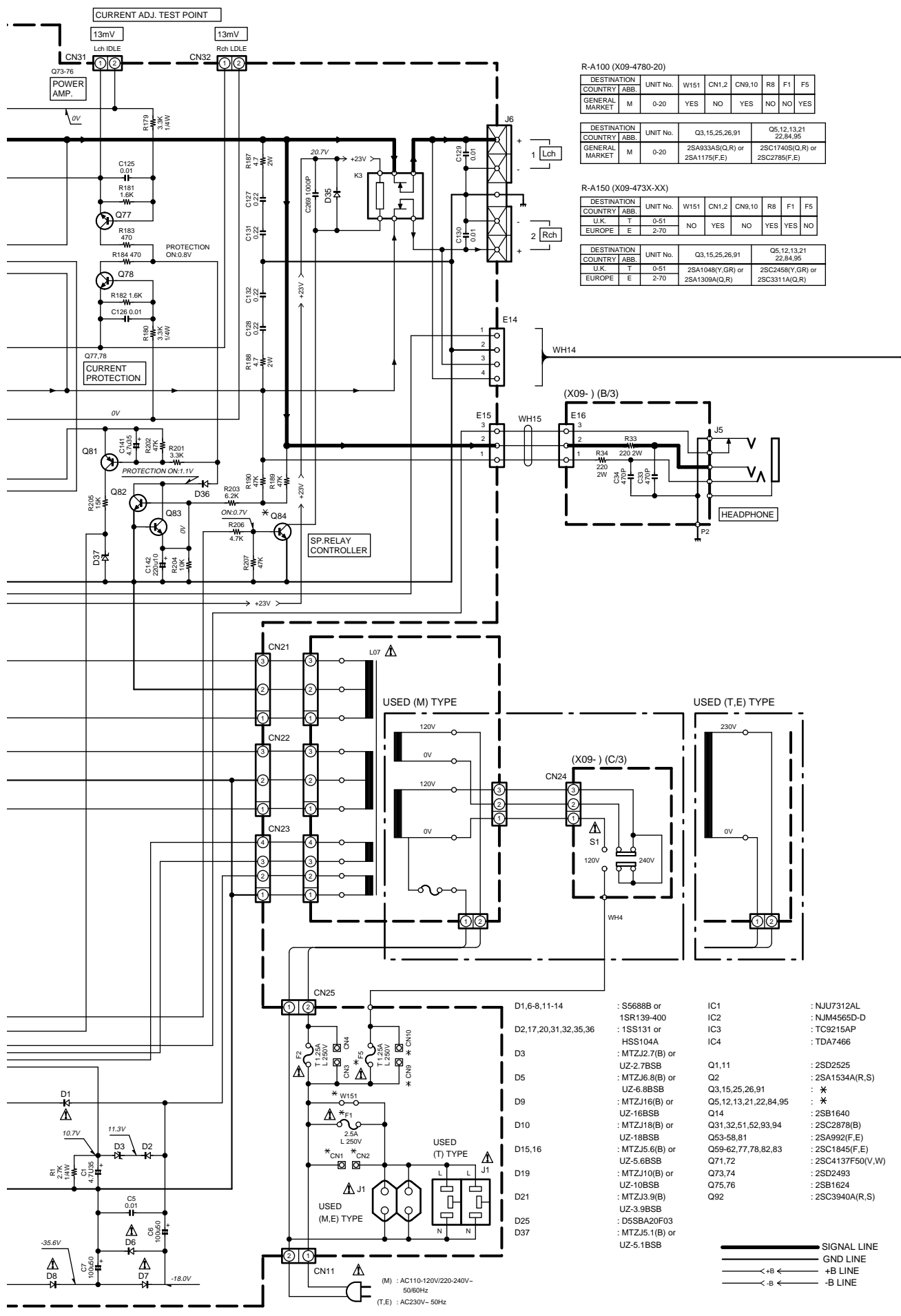
R-A100/A150/V300/V350

KENWOOD

AUDIO UNIT
(X09-4780-20) (A/3) : R-A100
(X09-473X-XX) (A/3) : R-A150

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.





The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

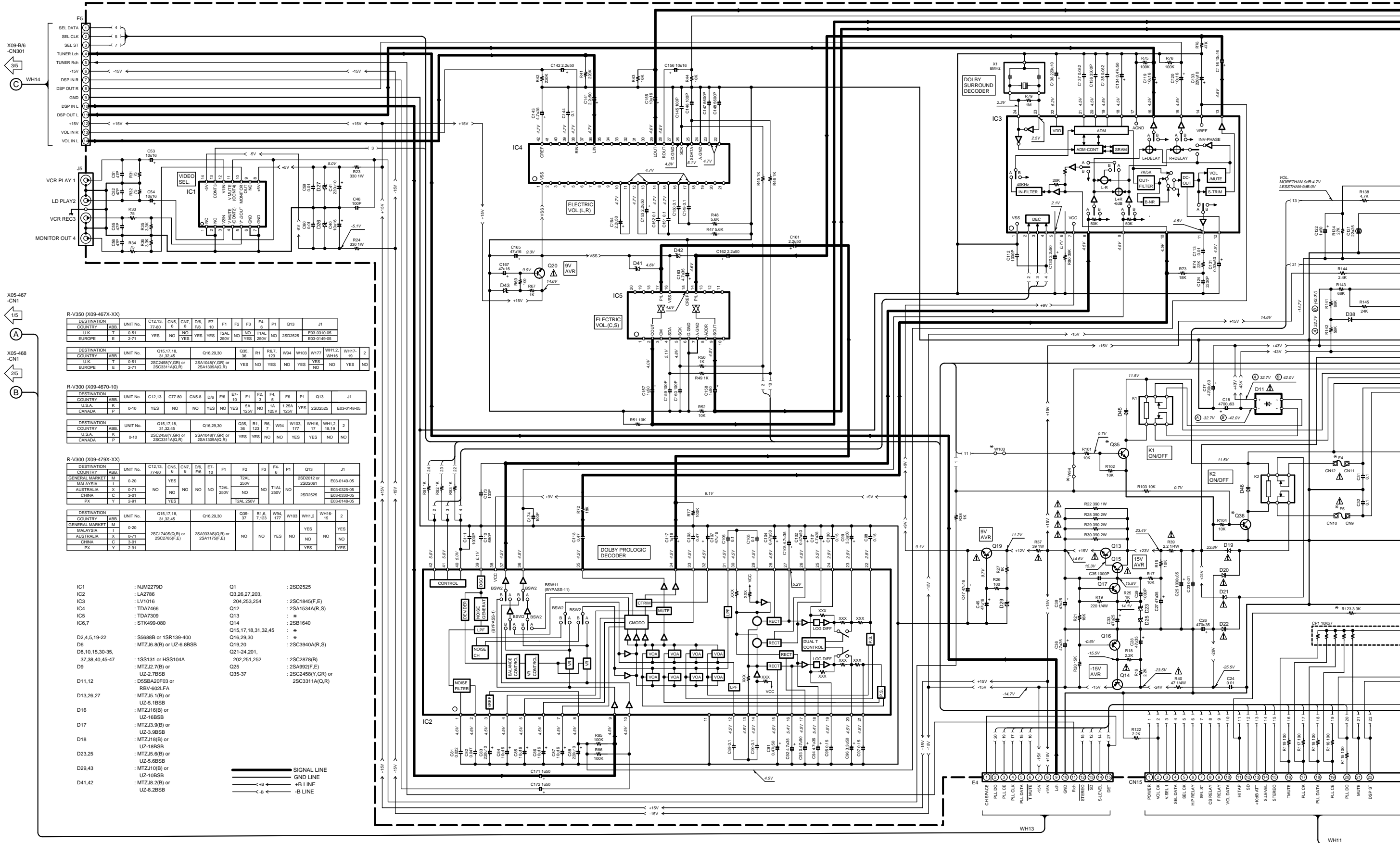
R-A100/A150/V300/V350(M) (3/5)

Y05-3540-20

R-A100/A150/V300/V350

KENWOOD

AUDIO UNIT
(X09-467X-XX) (A/6) : R-V300/V350
(X09-479X-XX) (A/6) : R-V300



R-V350 (X09-467X-XX)

DESTINATION	COUNTRY	ABB.	UNIT No.	C12,13	CN7,8	D16	E7-10	F1	F2	F3	F4-6	P1	Q13	J1
U.K.	T	9-51	NO	NO	NO	YES	T2AL	NO	NO	T1AL	NO	2SD2525	E03-0310-05	E03-0149-05
EUROPE	E	2-71	NO	NO	NO	YES	T2AL	NO	NO	T1AL	NO	2SD2525	E03-0310-05	E03-0149-05

R-V300 (X09-4670-10)

DESTINATION	COUNTRY	ABB.	UNIT No.	C12,13	C7-8	CN5-6	D16	F1	F2	F3	F4-6	P1	Q13	J1		
U.S.A.	K	0-10	YES	NO	NO	NO	YES	NO	NO	NO	1A	1.25A	125V	YES	2SD2525	E03-0149-05
CANADA	P	0-10	YES	NO	NO	NO	YES	NO	NO	NO	1A	1.25A	125V	YES	2SD2525	E03-0149-05

R-V300 (X09-479X-XX)

DESTINATION	COUNTRY	ABB.	UNIT No.	C12,13	CN7,8	D16	E7-10	F1	F2	F3	F4-6	P1	Q13	J1
GENERAL MARKET	M	0-20	YES	NO	NO	NO	NO	NO	NO	NO	T1AL	NO	2SD2021	E03-0310-05
U.S.A.	K	0-20	YES	NO	NO	NO	NO	NO	NO	NO	T1AL	NO	2SD2021	E03-0310-05
CANADA	P	0-20	YES	NO	NO	NO	NO	NO	NO	NO	T1AL	NO	2SD2021	E03-0310-05

IC1 : NJM2279D Q1 : 2SD2525

IC2 : LA2786 Q3,26,27,203, 204,253,254 : 2SC1845(F,E)

IC3 : LV1016 Q12 : 2SA1534A(R,S)

IC4 : TDA7466 Q13 : *

IC5 : TDA7309 Q14 : 2SB1640

IC6,7 : STK499-080 Q15,17,18,31,32,45 : *

D2,4,5,19-22 : S5688B or 1SR139-400 Q16,29,30 : *

D6 : MTZJ6(B) or UZ-6.8BSB Q19,20 : 2SC3940A(R,S)

D8,10,15,30-35, 37,38,40,45-47 : 1S5131 or HSS104A Q21-24,201, 202,251,252 : 2SC2878(B)

D9 : MTZJ2(B) or UZ-2.7BSB Q25 : 2SA992(F,E)

D11,12 : DS5B20F(03) or RBV-602LFA Q35-37 : 2SC2458(Y,GR) or 2SC3311A(Q,R)

D13,26,27 : MTZJ5.1(B) or UZ-5.1BSB

D16 : MTZJ16(B) or UZ-16BSB

D17 : MTZJ3.9(B) or UZ-3.9BSB

D18 : MTZJ18(B) or UZ-18BSB

D23,25 : MTZJ5.6(B) or UZ-5.6BSB

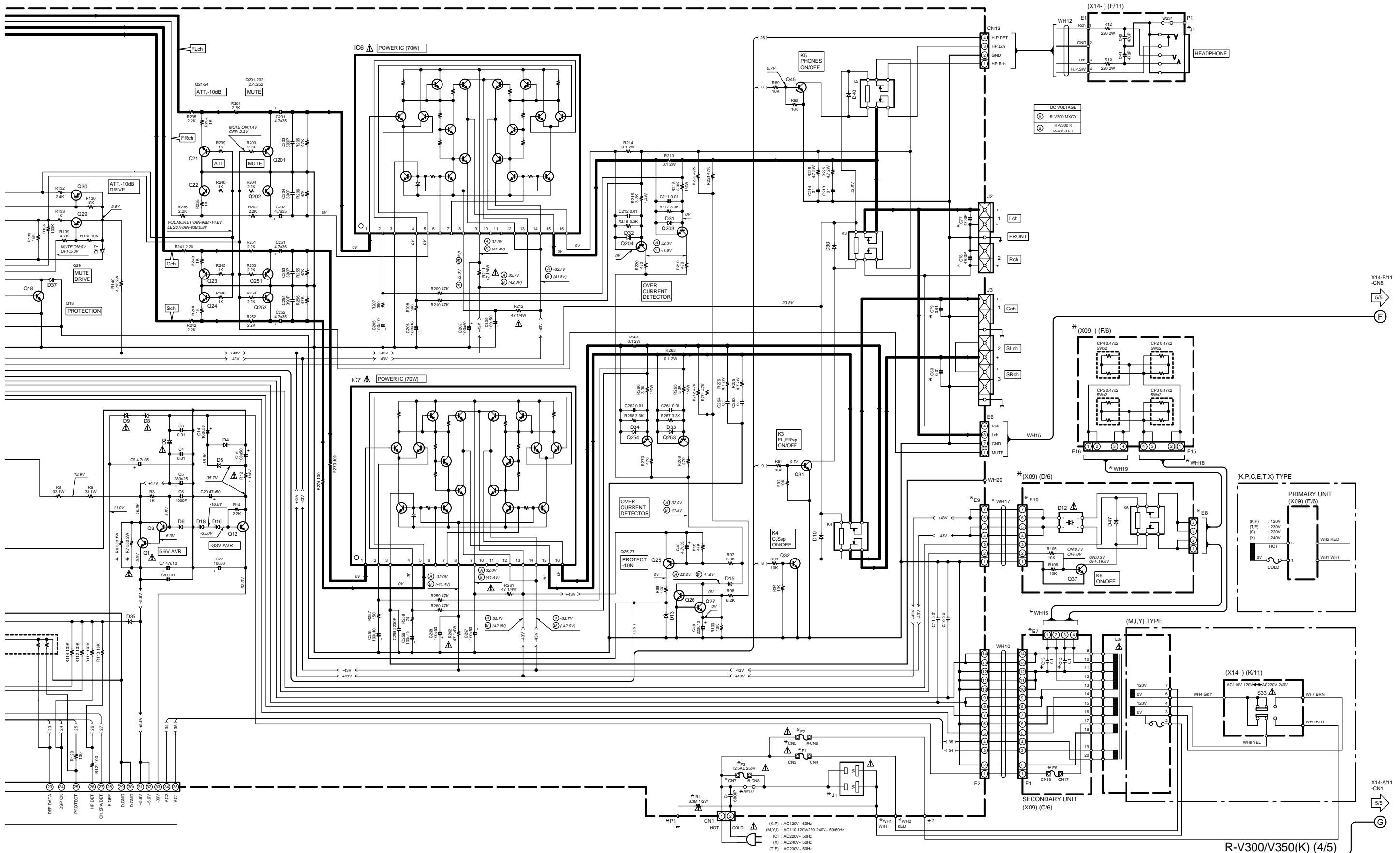
D29,43 : MTZJ10(B) or UZ-10BSB

D41,42 : MTZJ8.2(B) or UZ-8.2BSB

— SIGNAL LINE
— GND LINE
— +B LINE
— -B LINE

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.



R-A100/A150/V300/V350

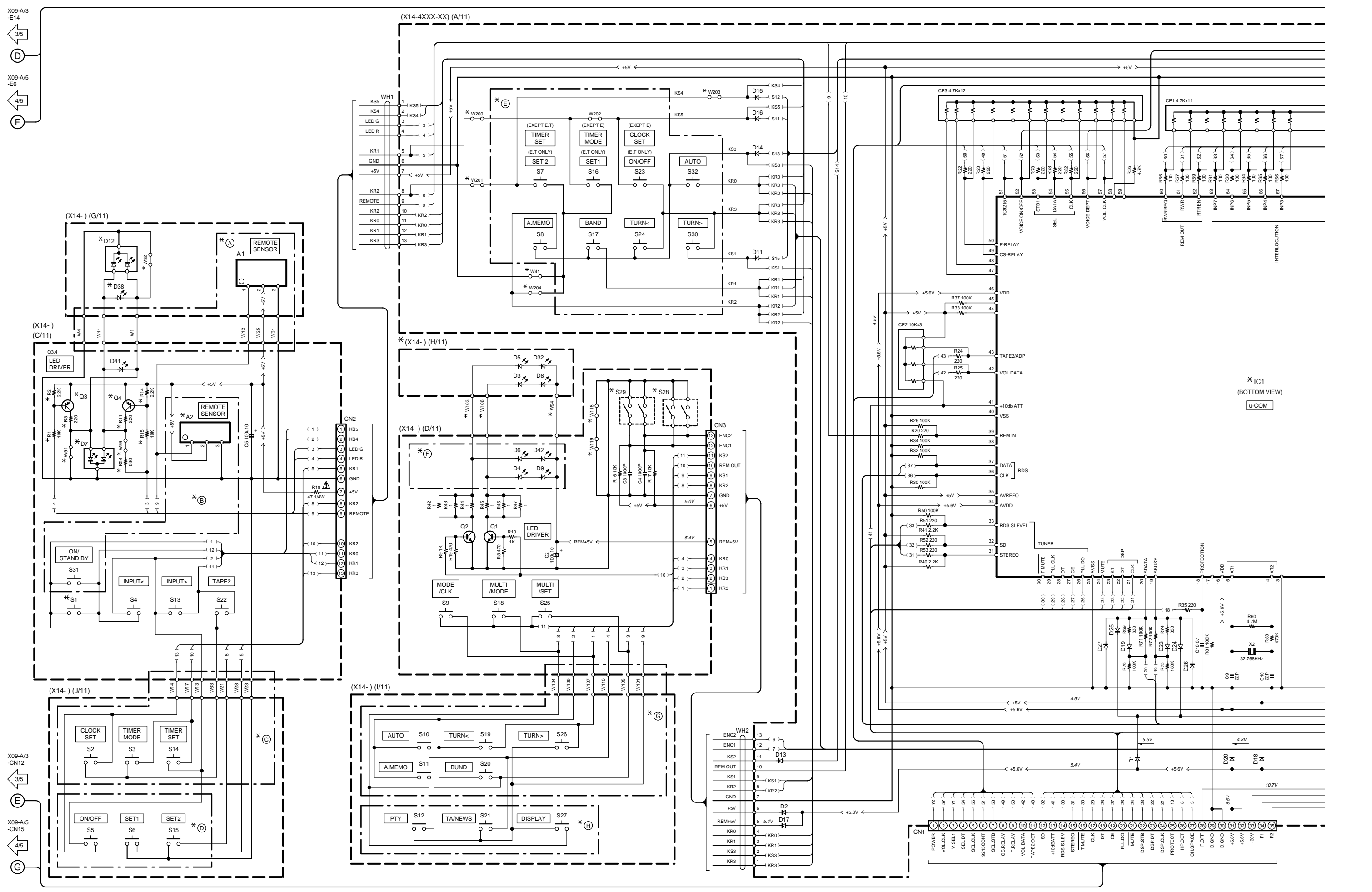
Y05-3540-20

KENWOOD

R-V300/V350(K) (4/5)

X14-E/11 -CN8
5/5
F

X14-A/11 -CN1
5/5
G



X09-A/3 -E14
3/5
D

X09-A/5 -E6
4/5
F

X09-A/3 -CN12
3/5
E

X09-A/5 -CN15
4/5
G

(X14-4XXX-XX) (A/11)

(X14-) (G/11)

(X14-) (C/11)

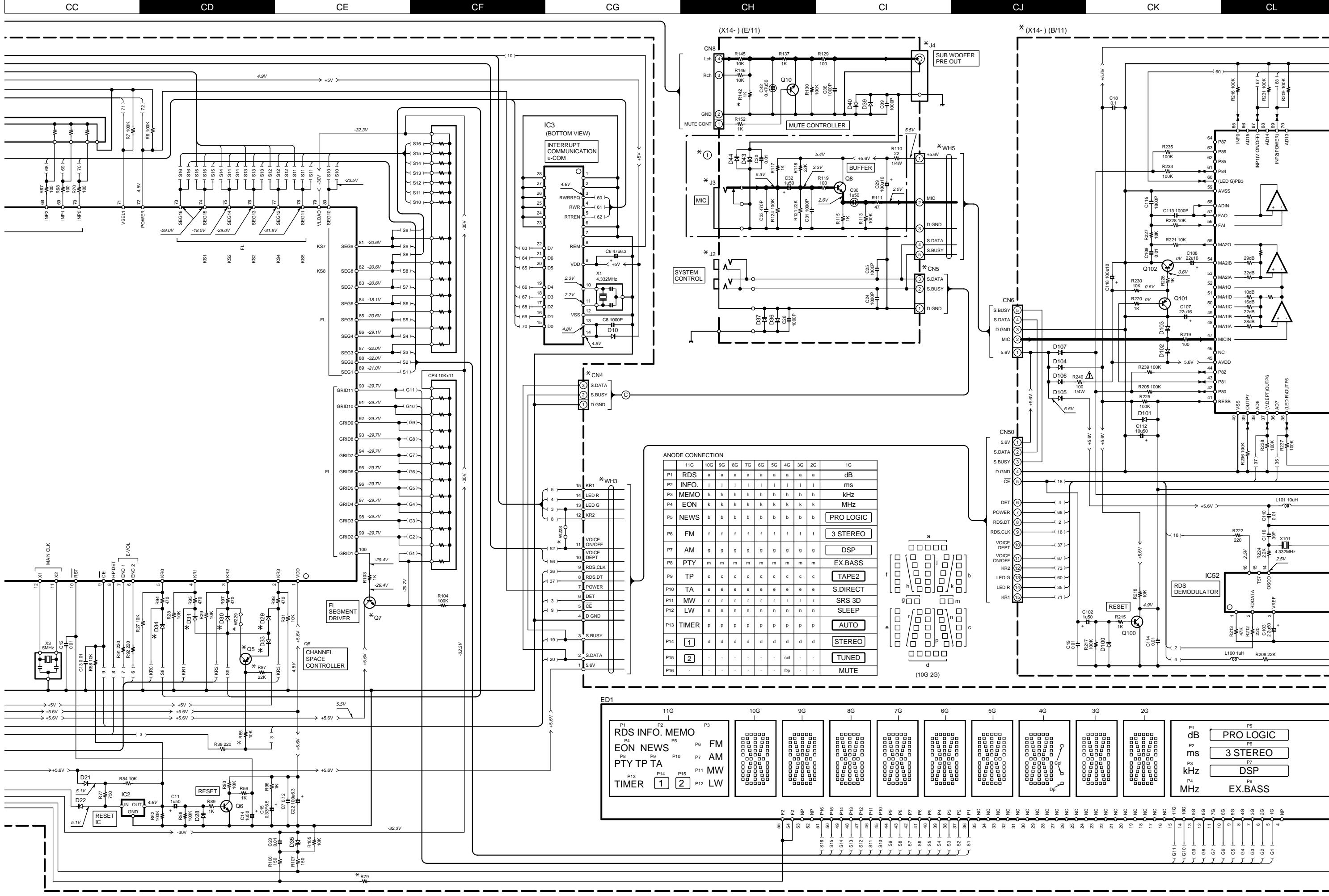
(X14-) (H/11)

(X14-) (D/11)

(X14-) (J/11)

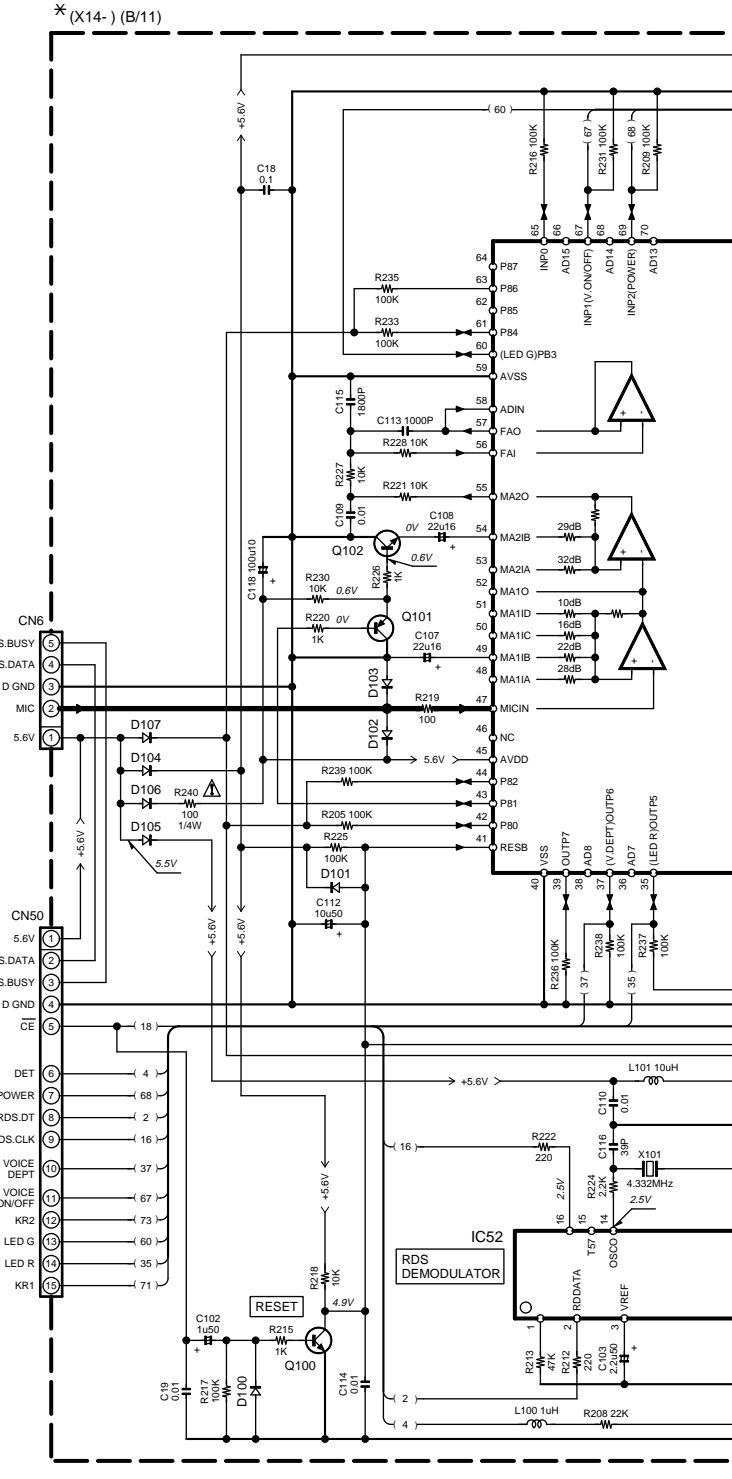
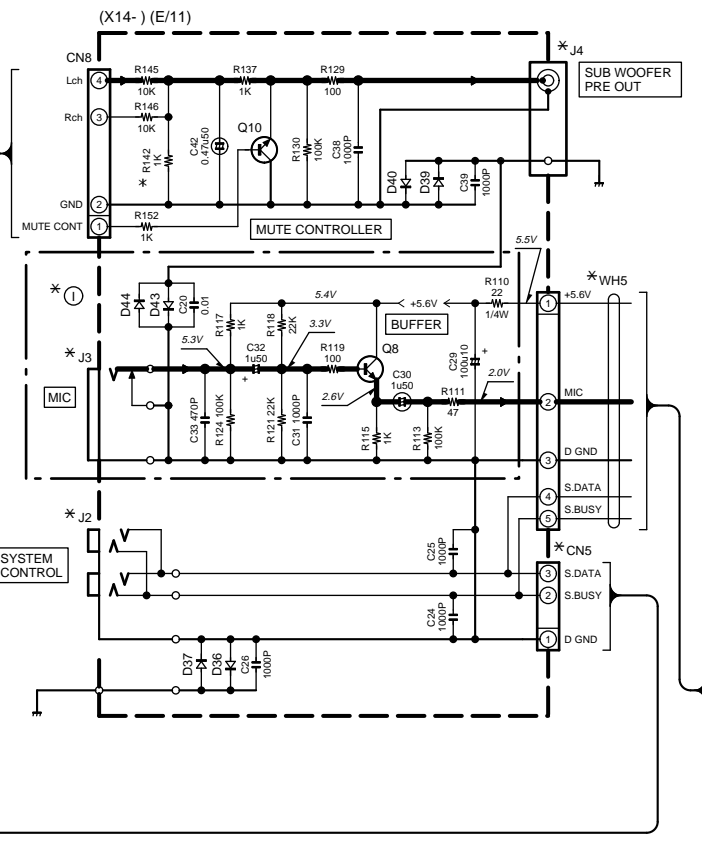
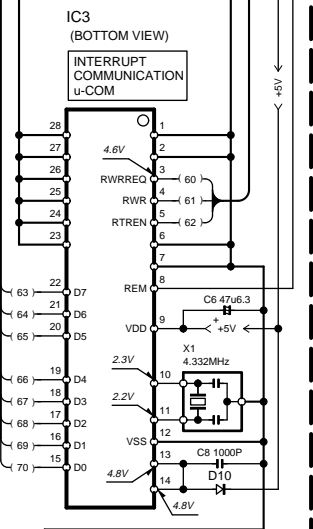
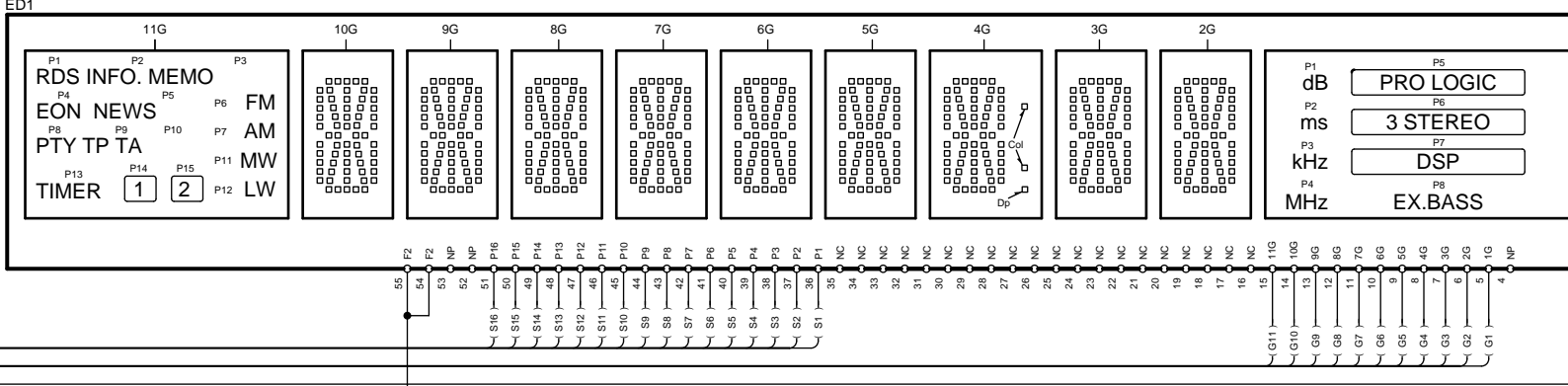
(X14-) (I/11)

*IC1
(BOTTOM VIEW)
u-COM



ANODE CONNECTION

	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	RDS	a	a	a	a	a	a	a	a	a	dB
P2	INFO.	j	j	j	j	j	j	j	j	j	ms
P3	MEMO	h	h	h	h	h	h	h	h	h	kHz
P4	EON	k	k	k	k	k	k	k	k	k	MHz
P5	NEWS	b	b	b	b	b	b	b	b	b	PRO LOGIC
P6	FM	f	f	f	f	f	f	f	f	f	3 STEREO
P7	AM	g	g	g	g	g	g	g	g	g	DSP
P8	PTY	m	m	m	m	m	m	m	m	m	EX.BASS
P9	TP	c	c	c	c	c	c	c	c	c	TAPE2
P10	TA	e	e	e	e	e	e	e	e	e	S.DIRECT
P11	MW	r	r	r	r	r	r	r	r	r	SRS 3D
P12	LW	n	n	n	n	n	n	n	n	n	SLEEP
P13	TIMER	p	p	p	p	p	p	p	p	p	AUTO
P14	1	d	d	d	d	d	d	d	d	d	STEREO
P15	2	-	-	-	-	-	-	-	-	-	TUNED
P16	-	-	-	-	-	-	-	-	-	-	MUTE

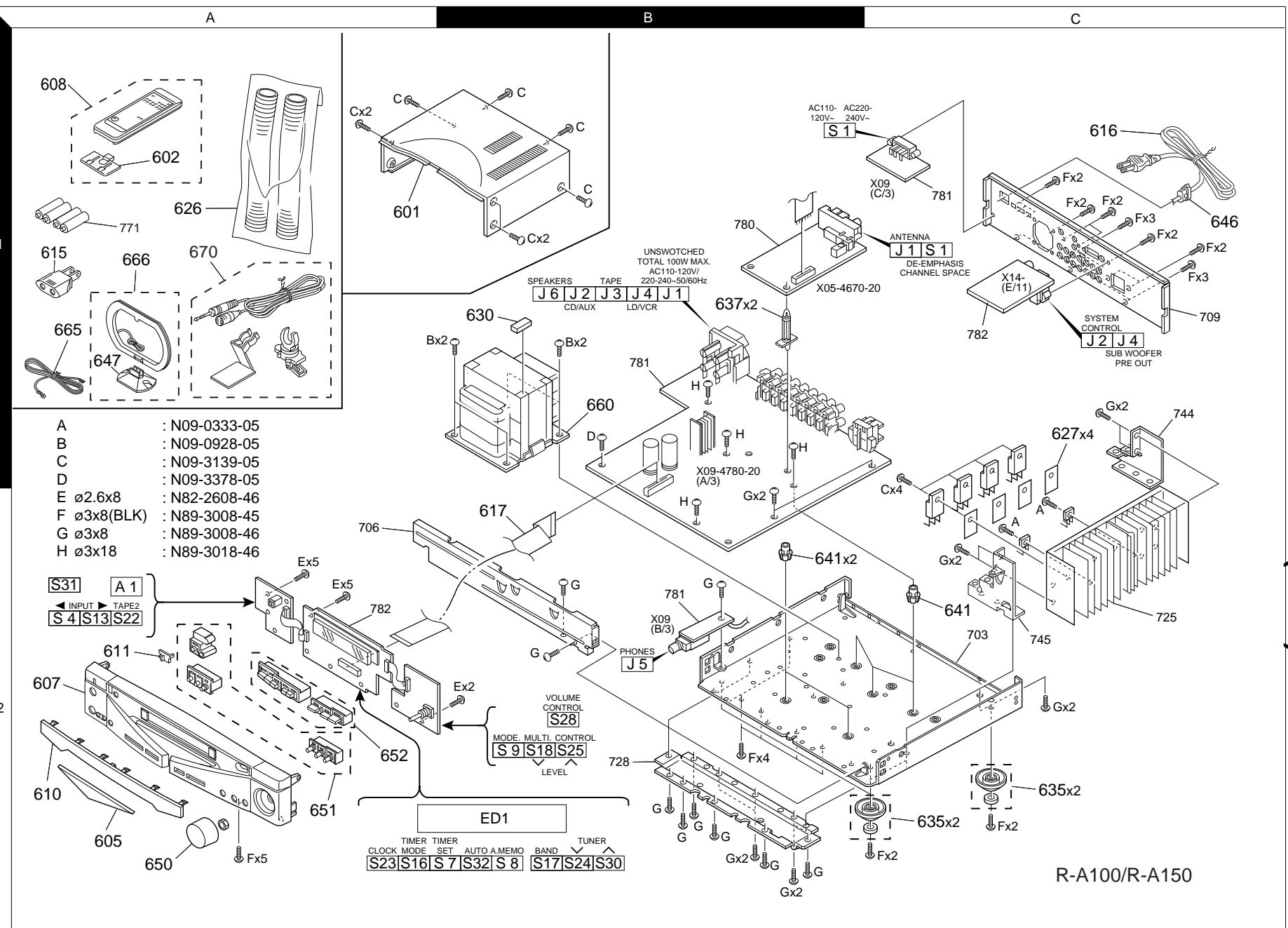


EXPLODED VIEW (UNIT)

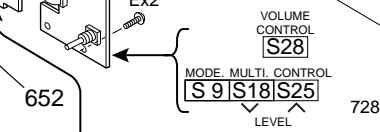
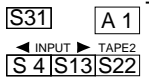
R-A100/A150/V300/V350

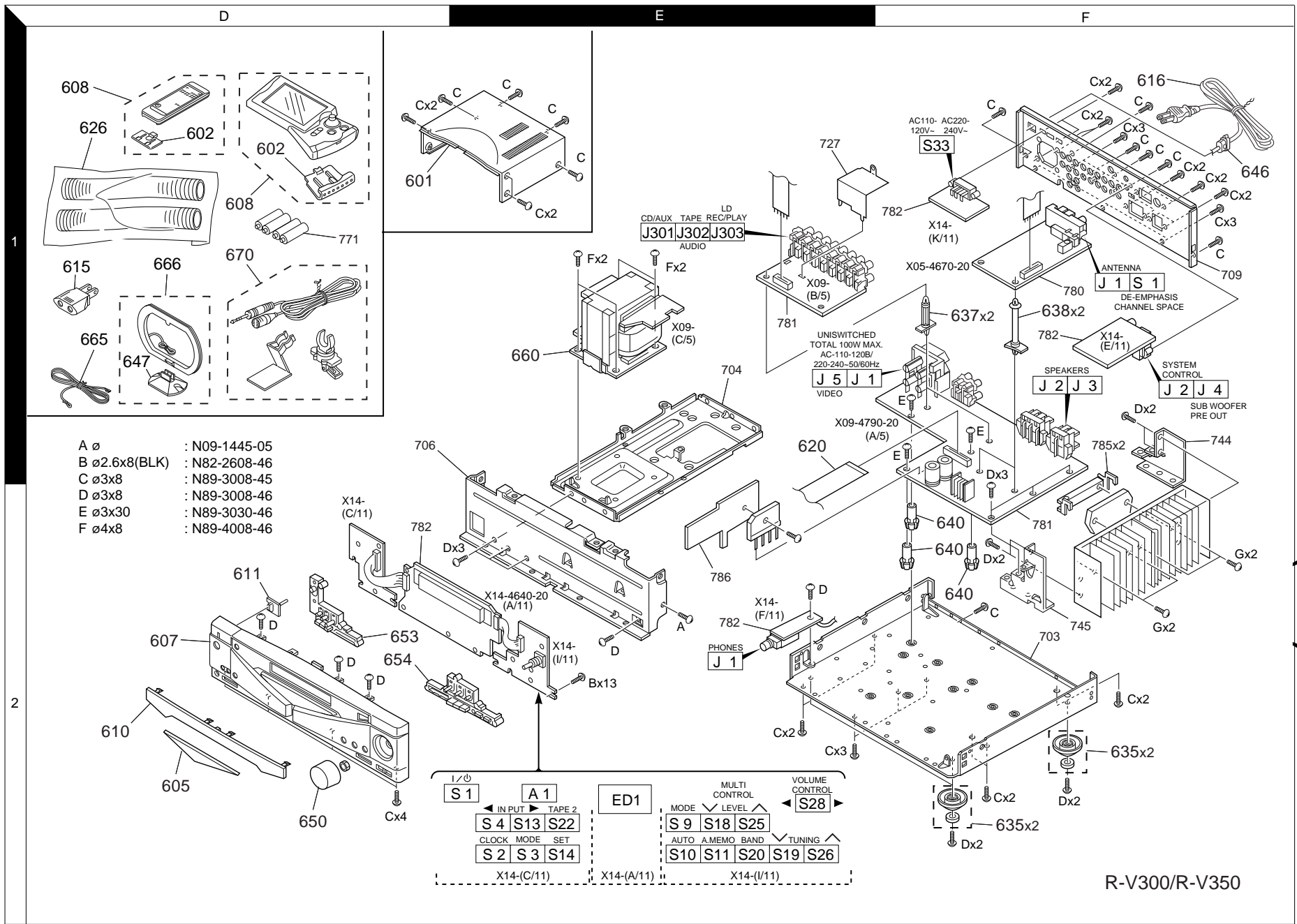
R-A100/R-A150

Parts with exploded view numbers larger than 700 are not supplied.



- A : N09-0333-05
- B : N09-0928-05
- C : N09-3139-05
- D : N09-3378-05
- E \varnothing 2.6x8 : N82-2608-46
- F \varnothing 3x8 (BLK) : N89-3008-45
- G \varnothing 3x8 : N89-3008-46
- H \varnothing 3x18 : N89-3018-46





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3

Table with 6 columns: Ref. No, Add-ress, New Parts, Parts No., Description, Desti-nation, Re-marks. It lists various components like caution cards, service directories, manuals, power cords, and covers with their respective part numbers and destinations.

L : Scandinavia K : USA P : Canada R : Mexico
Y : PX(Far East, Hawaii) T : Europe E : Europe G : Germany
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4

Table with 6 columns: Ref. No, Add-ress, New Parts, Parts No., Description, Desti-nation, Re-marks. It lists components like item carton cases, foots, unit holders, power transformers, and a detailed tuner unit section with electrical specifications.

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PARTS LIST

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R66			RK73FB2A152J	CHIP R 1.5K J 1/10W	T	
R67			RK73FB2A104J	CHIP R 100K J 1/10W		
R68			RK73FB2A222J	CHIP R 2.2K J 1/10W	T	
R69			RK73FB2A103J	CHIP R 10K J 1/10W		
R70			RK73FB2A105J	CHIP R 1.0M J 1/10W	T	
R80			RK73EB2B102J	CHIP R 1.0K J 1/8W		
R81 -83			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R84			RK73FB2A103J	CHIP R 10K J 1/10W		
R85 -88			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R89			RD14NB2E101J	RD 100 J 1/4W		
R90			RK73FB2A562J	CHIP R 5.6K J 1/10W		
R91			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R92			RK73FB2A123J	CHIP R 12K J 1/10W		
R93			RK73FB2A122J	CHIP R 1.2K J 1/10W		
R94			RD14NB2E561J	RD 560 J 1/4W		
R101,102			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R103			RK73FB2A821J	CHIP R 820 J 1/10W		
R104			RK73FB2A473J	CHIP R 47K J 1/10W		
R105			RK73FB2A822J	CHIP R 8.2K J 1/10W		
W51,52			R92-0670-05	CHIP R 0 OHM	KPE	
W53			R92-0670-05	CHIP R 0 OHM	KPE	
W54,55			R92-0670-05	CHIP R 0 OHM	T	
W56			R92-0679-05	CHIP R 0 OHM		
W57,58			R92-0679-05	CHIP R 0 OHM		
W59			R92-0670-05	CHIP R 0 OHM		
W61			R92-0670-05	CHIP R 0 OHM		
W62 -64			R92-0679-05	CHIP R 0 OHM		
W66,67			R92-0679-05	CHIP R 0 OHM		
W71			R92-0670-05	CHIP R 0 OHM		
W75			R92-0670-05	CHIP R 0 OHM		
W76			R92-0670-05	CHIP R 0 OHM	T	
W81			R92-0679-05	CHIP R 0 OHM		
W83			R92-0679-05	CHIP R 0 OHM		
W85			R92-0670-05	CHIP R 0 OHM	TE	
D1			HSS104	DIODE		
D1			1SS133	DIODE		
D2			HSS104	DIODE	TE	
D2			1SS133	DIODE	TE	
D31			HZS8.2N(B2)	ZENER DIODE		
D31			RD8.2ES(B2)	ZENER DIODE		
D32			HSS104	DIODE		
D32			1SS133	DIODE		
D61,62			HSS104	DIODE		
D61,62			1SS133	DIODE		
D81			HZS5.1N(B2)	ZENER DIODE		
D81			RD5.1ES(B2)	ZENER DIODE		
D101			HZS3.3N(B2)	ZENER DIODE		
D101			RD3.3ES(B2)	ZENER DIODE		
D102			HZS2.7N(B2)	ZENER DIODE		
D102			RD2.7ES(B2)	ZENER DIODE		
IC1			LA1836	ANALOGUE IC		
IC2			LC72131	MOS-IC		
Q1,2			2SC4081(R,S)	TRANSISTOR		
Q1,2			2SC4116(Y,GR)	TRANSISTOR		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
Q3			2SA1576A(R, S)	TRANSISTOR		
Q3			2SA1586(Y, GR)	TRANSISTOR		
Q4			2SC4081(R, S)	TRANSISTOR		
Q4			2SC4116(Y, GR)	TRANSISTOR		
Q31,32			2SC4081(R, S)	TRANSISTOR		
Q31,32			2SC4116(Y, GR)	TRANSISTOR		
Q33,34			2SC4081(R, S)	TRANSISTOR	TE	
Q33,34			2SC4116(Y, GR)	TRANSISTOR	TE	
Q61,62			2SC4081(R, S)	TRANSISTOR	T	
Q61,62			2SC4116(Y, GR)	TRANSISTOR	T	
Q63			2SC2878(B)	TRANSISTOR	T	
Q64			2SA1576A(R, S)	TRANSISTOR	T	
Q64			2SA1586(Y, GR)	TRANSISTOR	T	
Q65			2SK302(Y, GR)	FET	T	
Q81			2SA1576A(R, S)	TRANSISTOR		
Q81			2SA1586(Y, GR)	TRANSISTOR		
Q101,102			2SD1757K	TRANSISTOR		
Q103			2SA1576A(R, S)	TRANSISTOR		
Q103			2SA1586(Y, GR)	TRANSISTOR		
A1			W02-2582-05	FM FRONT-END ASSY	KP	
A1		*	W02-2584-05	FM FRONT-END ASSY	TE	
AUDIO UNIT (X09-476x-xx/X09-479x-xx : R-V300/V350)						
Δ C1			C91-1488-05	MF 6800PF 250VAC		
C3,4			CK45FF1H103Z	CERAMIC 0.010UF Z		
C5			CE04DW1E331M	ELECTRO 330UF 25WV		
C6			CK45FB1H102K	CERAMIC 1000PF K		
C7			CE04KW1A470M	ELECTRO 47UF 10WV		
C8			CK45FF1H103Z	CERAMIC 0.010UF Z		
C9			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
C10,11			CK45FE2H103P	CERAMIC 0.010UF P		
C12,13			CF92FV1H104J	MF-C 0.10UF J	KPTE	
C14,15			CE04KW1H101M	ELECTRO 100UF 50WV		
C17,18			C90-3580-05	ELECTRO 4700UF 63WV		
C20			CE04KW1H470M	ELECTRO 47UF 50WV		
C22			CE04KW1H100M	ELECTRO 10UF 50WV		
C23,24			CK45FF1H103Z	CERAMIC 0.010UF Z		
C25			CE04KW1V102M	ELECTRO 1000UF 35WV		
C26			CE04KW1V471M	ELECTRO 470UF 35WV		
C27,28			CE04KW1V470M	ELECTRO 47UF 35WV		
C29			CK45FB1H102K	CERAMIC 1000PF K		
C31,32			CF92FV1H104J	MF-C 0.10UF J		
C33			CE04KW1E470M	ELECTRO 47UF 25WV		
C35			CK45FB1H102K	CERAMIC 1000PF K		
C36			CE04KW1E470M	ELECTRO 47UF 25WV		
C39			CE04KW1E470M	ELECTRO 47UF 25WV		
C40			CE04KW1C100M	ELECTRO 10UF 16WV		
C41			CE04KW1A221M	ELECTRO 220UF 10WV		
C45			CE04KW1C470M	ELECTRO 47UF 16WV		
C46			CC45FSL1H101J	CERAMIC 100PF J		
C47			CE04KW1C470M	ELECTRO 47UF 16WV		
C48			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
C49			CE04KW1A221M	ELECTRO 220UF 10WV		
C51,52			CC45FSL1H470J	CERAMIC 47PF J		
C53,54			CE04KW1C100M	ELECTRO 10UF 16WV		

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PARTS LIST

R-A100/A150/V300/V350

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Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
△ F4 -6			F06-1022-05	FUSE (SEMKO) (250V T1AL)	TEMIYC	
△ F4 -6			F06-1022-05	FUSE (SEMKO) (250V T1AL)	X	
△ F4 ,5			F50-0066-05	FUSE(5X20)	KP	
△ F6			F50-0067-05	FUSE(5X20)	KP	
CN3 ,4			J13-0075-05	FUSE CLIP		
CN5 ,6			J13-0075-05	FUSE CLIP		
CN7 ,8			J13-0075-05	FUSE CLIP	MIY	
CN9 -12			J13-0075-05	FUSE CLIP	E	
CN17,18			J13-0075-05	FUSE CLIP		
E11 ,12			J11-0809-05	WIRE CLAMPER		
E14			J11-0809-05	WIRE CLAMPER		
X1			L78-0290-05	RESONATOR (8MHZ)		
CP1			R90-0815-05	MULTI-COMP 10K X7		
CP2 -5			R90-0186-05	MULTI-COMP 0.47X2	K 5W	
△ R1			R92-1844-05	CARBON 3.3M	J 1/2W	TE
R6			RS14KB3A561J	FL-PROOF RS 560	J 1W	KP
R7			RS14KB3D561J	FL-PROOF RS 560	J 2W	TE
R8 ,9			RS14KB3A330J	FL-PROOF RS 33	J 1W	
R12			RD14NB2E1R0J	RD 1	J 1/4W	
R19			RD14NB2E221J	RD 220	J 1/4W	
R22			RS14KB3A391J	FL-PROOF RS 390	J 1W	
R23 ,24			RS14KB3A331J	FL-PROOF RS 330	J 1W	
R28 -30			RS14KB3D391J	FL-PROOF RS 390	J 2W	
R37			RS14KB3A390J	FL-PROOF RS 39	J 1W	
R39			RD14NB2E2R2J	RD 2.2	J 1/4W	
R40			RD14NB2E470J	RD 47	J 1/4W	
R140			RS14KB3D472J	FL-PROOF RS 4.7K	J 2W	
R211,212			RD14NB2E470J	RD 47	J 1/4W	
R213,214		*	R92-1862-05	METAL PLATE RESISTOR		
R215,216			RD14NB2E332J	RD 3.3K	J 1/4W	
R225,226			RS14KB3D4R7J	FL-PROOF RS 4.7	J 2W	
R261,262			RD14NB2E470J	RD 47	J 1/4W	
R263,264		*	R92-1862-05	METAL PLATE RESISTOR		
R265,266			RD14NB2E332J	RD 3.3K	J 1/4W	
R275,276			RS14KB3D4R7J	FL-PROOF RS 4.7	J 2W	
K1		*	S76-0072-05	MAGNETIC RELAY		
K2		*	S76-0069-05	MAGNETIC RELAY		
K3 -5		*	S76-0056-05	MAGNETIC RELAY		
K6		*	S76-0072-05	MAGNETIC RELAY		
D2			S5688B	DIODE		
D2			1SR139-400	DIODE		
D4 ,5			S5688B	DIODE		
D4 ,5			1SR139-400	DIODE		
D6			MTZJ6.8(B)	ZENER DIODE		
D6			UZ-6.8BSB	ZENER DIODE		
D8			HSS104A	DIODE		
D8			1SS131	DIODE		
D9			MTZJ2.7(B)	ZENER DIODE		
D9			UZ-2.7BSB	ZENER DIODE		
D10			HSS104A	DIODE		
D10			1SS131	DIODE		
D11 ,12			D5SBA20F03	DIODE		
D11 ,12			RBV-602LFA	DIODE		

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Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
D13			MTZJ5.1(B)	ZENER DIODE		
D13			UZ-5.1BSB	ZENER DIODE		
D15			HSS104A	DIODE		
D15			1SS131	DIODE		
D16			MTZJ16(B)	ZENER DIODE		
D16			UZ-16BSB	ZENER DIODE		
D17			MTZJ3.9(B)	ZENER DIODE		
D17			UZ-3.9BSB	ZENER DIODE		
D18			MTZJ18(B)	ZENER DIODE		
D18			UZ-18BSB	ZENER DIODE		
D19 -22			S5688B	DIODE		
D19 -22			1SR139-400	DIODE		
D23			MTZJ5.6(B)	ZENER DIODE		
D23			UZ-5.6BSB	ZENER DIODE		
D25			MTZJ5.6(B)	ZENER DIODE		
D25			UZ-5.6BSB	ZENER DIODE		
D26 ,27			MTZJ5.1(B)	ZENER DIODE		
D26 ,27			UZ-5.1BSB	ZENER DIODE		
D29			MTZJ10(B)	ZENER DIODE		
D29			UZ-10BSB	ZENER DIODE		
D30 -35			HSS104A	DIODE		
D30 -35			1SS131	DIODE		
D37 ,38			HSS104A	DIODE		
D37 ,38			1SS131	DIODE		
D40			HSS104A	DIODE		
D40			1SS131	DIODE		
D41 ,42			MTZJ8.2(B)	ZENER DIODE		
D41 ,42			UZ-8.2BSB	ZENER DIODE		
D43			MTZJ10(B)	ZENER DIODE		
D43			UZ-10BSB	ZENER DIODE		
D45 ,46			HSS104A	DIODE		
D45 ,46			1SS131	DIODE		
D47			HSS104A	DIODE		
D47			1SS131	DIODE		
IC1			NJM2279D	IC(VIDEO IC)		KPTE KPTE
IC2			LA2786	ANALOGUE IC		
IC3			LV1016	DI BI-POLAR IC		
IC4			TDA7466	ANALOGUE IC		
IC5			TDA7309	ANALOGUE IC		
IC6 ,7		*	STK499-080	HYBRID IC		
IC301			NJU7312AL	ANALOGUE IC		
IC302			NJU7311AL	ANALOGUE IC		
IC303			NJM4565L-D	ANALOGUE IC		
Q1			2SD2525	TRANSISTOR		
Q3			2SC1845(F,E)	TRANSISTOR		
△ Q12			2SA1534A(R,S)	TRANSISTOR		
Q13			2SD2012	TRANSISTOR	(R-V300)	MI
Q13			2SD2061	TRANSISTOR	(R-V300)	MI
Q13			2SD2525	TRANSISTOR		KPTECX
Q13			2SD2525	TRANSISTOR		Y
△ Q14			2SB1640	TRANSISTOR		
△ Q15			2SC1740S(Q,R)	TRANSISTOR		MICXY
△ Q15			2SC2458(Y,GR)	TRANSISTOR		KPTE
△ Q15			2SC2785(F,E)	TRANSISTOR		MICXY
△ Q15			2SC3311A(Q,R)	TRANSISTOR		KPTE

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PARTS LIST

R-A100/A150/V300/V350

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Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
Δ CN31,32 Δ J1 J1 J2 -4 J5 J6			E40-4871-05 E03-0149-05 E03-0310-05 E63-0139-15 E11-0280-05 E70-0053-05	PIN ASSY AC OUTLET AC OUTLET PHONO JACK PHONE JACK LOCK TERMINAL BOARD	EM T	
Δ F1 Δ F2 Δ F5			F05-2525-05 F05-1222-05 F05-1222-05	FUSE (SEMKO) (250V T2.5AL) FUSE (SEMKO) (250V T1.25A L) FUSE (SEMKO) (250V T1.25A L)	TE M	
CN1 ,2 CN3 ,4 CN9 ,10 E1 -3			J13-0075-05 J13-0075-05 J13-0075-05 J11-0808-05	FUSE CLIP FUSE CLIP FUSE CLIP WIRE CLAMPER	TE M	
R1 R6 R7 R8 R11			RD14NB2E272J RD14NB2E6R8J RD14NB2E1R0J RS14KB3D821J RD14NB2E3R3J	RD 2.7K J 1/4W RD 6.8 J 1/4W RD 1 J 1/4W FL-PROOF RS 820 J 2W RD 3.3 J 1/4W	TE	
R14 R15 R18 R27 R33 ,34			RD14NB2E221J RS14KB3D181J RD14NB2E3R3J RD14NB2E150J RS14KB3D221J	RD 220 J 1/4W FL-PROOF RS 180 J 2W RD 3.3 J 1/4W RD 15 J 1/4W FL-PROOF RS 220 J 2W		
R35 R47 ,48 R99 R149-152 R153,154			RS14KB3D392J RD14NB2E470J RD14NB2E4R7J RD14NB2E221J RD14NB2E682J	FL-PROOF RS 3.9K J 2W RD 47 J 1/4W RD 4.7 J 1/4W RD 220 J 1/4W RD 6.8K J 1/4W		
R155,156 R175-178 R179,180 R187,188 R240			RD14NB2E101J RD14NB2E4R7J RD14NB2E332J RS14KB3D4R7J RS14KB3D680J	RD 100 J 1/4W RD 4.7 J 1/4W RD 3.3K J 1/4W FL-PROOF RS 4.7 J 2W FL-PROOF RS 68 J 2W		
R241-244 VR1 ,2			R92-1771-05 R12-0607-05	METAL PLATE RESISTOR TRIMMING POT.(470)		
K1 ,2 K3 S1			S76-0060-05 S76-0056-05 S62-0001-05	MAGNETIC RELAY MAGNETIC RELAY SLIDE SWITCH	M	
D1 D1 D2 D2 D3			S5688B 1SR139-400 HSS104A 1SS131 MTZJ2.7(B)	DIODE DIODE DIODE DIODE ZENER DIODE		
D3 D5 D5 D6 -8 D6 -8			UZ-2.7BSB MTZJ6.8(B) UZ-6.8BSB S5688B 1SR139-400	ZENER DIODE ZENER DIODE ZENER DIODE DIODE DIODE		
D9 D9 D10 D10 D11 -14			MTZJ16(B) UZ-16BSB MTZJ18(B) UZ-18BSB S5688B	ZENER DIODE ZENER DIODE ZENER DIODE ZENER DIODE DIODE		

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Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
D11 -14 D15 ,16 D15 ,16 D17 D17			1SR139-400 MTZJ5.6(B) UZ-5.6BSB HSS104A 1SS131	DIODE ZENER DIODE ZENER DIODE DIODE DIODE		
D19 D19 D20 D20 D21			MTZJ10(B) UZ-10BSB HSS104A 1SS131 MTZJ3.9(B)	ZENER DIODE ZENER DIODE DIODE DIODE ZENER DIODE		
D21 D25 D31 ,32 D31 ,32 D35 ,36			UZ-3.9BSB D5SBA20F03 HSS104A 1SS131 HSS104A	ZENER DIODE DIODE DIODE DIODE DIODE		
D35 ,36 D37 D37 IC1 IC2			1SS131 MTZJ5.1(B) UZ-5.1BSB NJU7312AL NJM4565D-D	DIODE ZENER DIODE ZENER DIODE ANALOGUE IC IC(OP AMP X2)		
IC3 IC4 Q1 Q2 Q3			TC9215AP TDA7466 2SD2525 2SA1534A(R,S) 2SA1048(Y,GR)	ANALOGUE IC ANALOGUE IC TRANSISTOR TRANSISTOR TRANSISTOR	TE	
Q3 Q3 Q3 Q5 Q5			2SA1175(F,E) 2SA1309A(Q,R) 2SA933AS(Q,R) 2SC1740S(Q,R) 2SC2458(Y,GR)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	M TE M M TE	
Q5 Q5 Q11 Q12 ,13 Q12 ,13			2SC2785(F,E) 2SC3311A(Q,R) 2SD2525 2SC1740S(Q,R) 2SC2458(Y,GR)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	M TE M TE	
Q12 ,13 Q12 ,13 Q14 Q15 Q15			2SC2785(F,E) 2SC3311A(Q,R) 2SB1640 2SA1048(Y,GR) 2SA1175(F,E)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	M TE M TE M	
Q15 Q15 Q21 ,22 Q21 ,22 Q21 ,22			2SA1309A(Q,R) 2SA933AS(Q,R) 2SC1740S(Q,R) 2SC2458(Y,GR) 2SC3311A(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	TE M M TE TE	
Q25 ,26 Q25 ,26 Q25 ,26 Q25 ,26 Q31 ,32			2SA1048(Y,GR) 2SA1175(F,E) 2SA1309A(Q,R) 2SA933AS(Q,R) 2SC2878(B)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	TE M TE M M	
Q51 ,52 Q53 -58 Q59 -62 Q77 ,78			2SC2878(B) 2SA992(F,E) 2SC1845(F,E) 2SC1845(F,E)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		

L : Scandinavia K : USA P : Canada R : Mexico
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Δ indicates safety critical components.

PARTS LIST

R-A100/A150/V300/V350

* New Parts
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Ref. No	Add- ress	New Parts	Parts No.	Description	Desti- nation	Re- marks
R37			RK73FB2A104J	CHIP R 100K	J	1/10W
R38			RK73FB2A221J	CHIP R 220	J	1/10W
R40 ,41			RK73FB2A222J	CHIP R 2.2K	J	1/10W
R42 -47			RK73FB2A1R0J	CHIP R 1	J	1/10W
R50			RK73EB2B104J	CHIP R 100K	J	1/8W
R51 -53			RK73FB2A221J	CHIP R 220	J	1/10W
R55			RK73FB2A101J	CHIP R 100	J	1/10W
R56			RK73FB2A102J	CHIP R 1.0K	J	1/10W
R57			RK73FB2A101J	CHIP R 100	J	1/10W
R58			RK73FB2A103J	CHIP R 10K	J	1/10W
R59			RK73FB2A101J	CHIP R 100	J	1/10W
R60			RK73FB2A475J	CHIP R 4.7M	J	1/10W
R61			RK73FB2A101J	CHIP R 100	J	1/10W
R62			RK73FB2A104J	CHIP R 100K	J	1/10W
R63 -68			RK73FB2A101J	CHIP R 100	J	1/10W
R69			RK73FB2A331J	CHIP R 330	J	1/10W
R70			RK73FB2A101J	CHIP R 100	J	1/10W
R71 ,72			RK73FB2A104J	CHIP R 100K	J	1/10W
R73			RK73FB2A221J	CHIP R 220	J	1/10W
R74			RK73FB2A331J	CHIP R 330	J	1/10W
R75 ,76			RK73FB2A104J	CHIP R 100K	J	1/10W
R77			RK73EB2B751J	CHIP R 750	J	1/8W
R78			RK73FB2A221J	CHIP R 220	J	1/10W
R81			RK73EB2B104J	CHIP R 100K	J	1/8W
R82			RK73FB2A221J	CHIP R 220	J	1/10W
R83			RK73FB2A474J	CHIP R 470K	J	1/10W
R84			RK73FB2A103J	CHIP R 10K	J	1/10W
R88			RK73FB2A104J	CHIP R 100K	J	1/10W
R89			RK73FB2A102J	CHIP R 1.0K	J	1/10W
R91			RK73FB2A221J	CHIP R 220	J	1/10W
R93			RK73EB2B103J	CHIP R 10K	J	1/8W
R94 ,95			RK73FB2A471J	CHIP R 470	J	1/10W
R96			RK73FB2A102J	CHIP R 1.0K	J	1/10W
R98			RK73EB2B471J	CHIP R 470	J	1/8W
R103			RK73FB2A102J	CHIP R 1.0K	J	1/10W
R104			RK73FB2A104J	CHIP R 100K	J	1/10W
R240			RD14NB2E101J	RD 100	J	1/4W
W200			R92-0679-05	CHIP R 0 OHM		
W201			R92-0670-05	CHIP R 0 OHM		
W202-205			R92-0670-05	CHIP R 0 OHM		
W206-216			R92-0679-05	CHIP R 0 OHM		
W217			R92-0670-05	CHIP R 0 OHM		
W218,219			R92-0679-05	CHIP R 0 OHM		
W220-223			R92-0670-05	CHIP R 0 OHM		
W224			R92-0679-05	CHIP R 0 OHM		
W225			R92-0670-05	CHIP R 0 OHM		
W226,227			R92-0679-05	CHIP R 0 OHM		
W228,229			R92-0670-05	CHIP R 0 OHM		
W229			R92-0670-05	CHIP R 0 OHM		
W230			R92-0679-05	CHIP R 0 OHM		
W231			R92-0670-05	CHIP R 0 OHM		
W232,233			R92-0679-05	CHIP R 0 OHM		
S1 -3			S70-0031-05	TACT SWITCH		(R-V300/V350)
S4			S70-0031-05	TACT SWITCH		
S5 ,6			S70-0031-05	TACT SWITCH		(R-V350)

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Ref. No	Add- ress	New Parts	Parts No.	Description	Desti- nation	Re- marks
S7 ,8			S70-0031-05	TACT SWITCH		(R-A100/A150)
S9			S70-0031-05	TACT SWITCH		
S10 ,11			S70-0031-05	TACT SWITCH		(R-V300/V350)
S12			S70-0031-05	TACT SWITCH		(R-V350)
S13			S70-0031-05	TACT SWITCH		
S14			S70-0031-05	TACT SWITCH		(R-V300/V350)
S15			S70-0031-05	TACT SWITCH		(R-V350)
S16 ,17			S70-0031-05	TACT SWITCH		(R-A100/A150)
S18			S70-0031-05	TACT SWITCH		
S19 ,20			S70-0031-05	TACT SWITCH		(R-V300/V350)
S21			S70-0031-05	TACT SWITCH		(R-V350)
S22			S70-0031-05	TACT SWITCH		
S23 ,34			S70-0031-05	TACT SWITCH		(R-A100/VA10)
S25			S70-0031-05	TACT SWITCH		
S26			S70-0031-05	TACT SWITCH		
S27			S70-0031-05	TACT SWITCH		(R-V350)
S30 -32			S70-0031-05	TACT SWITCH		(R-A100/A150)
S33			S62-0001-05	SLIDE SWITCH		(R-V300)
S28			T99-0559-05	ROTARY ENCODER		(R-A100/A150)
S29			T99-0559-05	ROTARY ENCODER		(R-V300/V350)
D1 ,2			HSS104A	DIODE		
D1 ,2			1SS131	DIODE		
D10 ,11			MA110	DIODE		
D13 -16			MA110	DIODE		
D17			S5688B	DIODE		
D17			1SR139-400	DIODE		
D18			HSS104A	DIODE		
D18			1SS131	DIODE		
D19			MA110	DIODE		
D20 -22			HSS104A	DIODE		
D20 -22			1SS131	DIODE		
D23			MA110	DIODE		
D24 -27			HSS104A	DIODE		
D24 -27			1SS131	DIODE		
D28			MA110	DIODE		
D29			HSS104A	DIODE		
D29			1SS131	DIODE		
D30			HSS104A	DIODE		
D30			1SS131	DIODE		
D31			HSS104A	DIODE		(R-V300/V350)
D31			1SS131	DIODE		(R-V300/V350)
D33			HSS104A	DIODE		(R-V300)
D33			1SS131	DIODE		(R-V300)
D34			HSS104A	DIODE		(R-A100/A150)
D34			1SS131	DIODE		(R-A100/A150)
D35			MTZJ6.2(B)	ZENER DIODE		
D35			UZ-6.2B5B	ZENER DIODE		
D36 ,37			HSS104A	DIODE		
D36 ,37			1SS131	DIODE		
D39 ,40			HSS104A	DIODE		
D39 ,40			1SS131	DIODE		
D43 ,44			HSS104A	DIODE		
D43 ,44			1SS131	DIODE		
D100-107			HSS104A	DIODE		
D100-107			1SS131	DIODE		

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PARTS LIST

R-A100/A150/V300/V350

R-A100/A150/V300/V350

PARTS LIST



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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
ED1		*	20U64102SA	INDICATOR TUBE		
IC1		*	UPD780206GF025	MI-COM IC	MIYCX	
IC1		*	UPD780206GF027	MI-COM IC	KPTE	
IC2			S-806D-Z	ANALOGUE IC		
IC3			UPD17215GT-737	MI-COM IC		
IC51			RF5S830-0021	MOS-IC	TE	
IC52			SAA6579	ANALOGUE IC	TE	
Q1 ,2			2SC3246	TRANSISTOR		
Q3 ,4			2SA1048(Y,GR)	TRANSISTOR	TE	
Q3 ,4			2SA1309A(Q,R)	TRANSISTOR	TE	
Q5			2SA1175(F,E)	TRANSISTOR	MCİY	
Q5			2SA933AS(Q,R)	TRANSISTOR	MCİY	
Q6			2SC4116(Y,GR)	TRANSISTOR		
Q7			2SC1740S(Q,R)	TRANSISTOR	MIYCX	
Q7			2SC2458(Y,GR)	TRANSISTOR	KPTE	
Q7			2SC2785(F,E)	TRANSISTOR	MIYCX	
Q7			2SC3311A(Q,R)	TRANSISTOR	KPTE	
Q8			2SC2458(Y,GR)	TRANSISTOR	TE	
Q8			2SC3311A(Q,R)	TRANSISTOR	TE	
Q10			2SC2878(B)	TRANSISTOR		
Q100			2SC2458(Y,GR)	TRANSISTOR	TE	
Q100			2SC3311A(Q,R)	TRANSISTOR	TE	
Q101			2SA1048(Y,GR)	TRANSISTOR	TE	
Q101			2SA1309A(Q,R)	TRANSISTOR	TE	
Q102			2SC2458(Y,GR)	TRANSISTOR	TE	
Q102			2SC3311A(Q,R)	TRANSISTOR	TE	
A1	3,35		W02-2598-05	OPTIC RECEIVING (R-V300/V350)		
A2	1,15		W02-2598-05	OPTIC RECEIVING (R-A100/A150)		

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indicates safety critical components.

R-A100/A150/V300/V350

SPECIFICATIONS

R-A100 (En/M)

Audio section

Effective output power	
1 kHz, 10% T.H.D., at 6 Ω	50 W + 50 W
Rated output power	
1 kHz, 1% T.H.D., at 6 Ω	40 W + 40 W
Total harmonic distortion (1 kHz, 25 W, 6 Ω)	0.02 %
Frequency response	
LINE (CD)	10 Hz ~ 80 kHz, +0 dB, -3 dB
Signal to noise ratio (IHF'66)	
LINE (CD)	90 dB
Input sensitivity / impedance	
LINE (AUX)	200 mV / 47 kΩ
Tone controls	
BASS	± 8 dB (at 100 Hz)
TREBLE	± 8 dB (at 100 kHz)
Output level / impedance	
TAPE REC	200 mV / 2.2 kΩ
SUB WOOFER PRE OUT	2V / 1kΩ

FM Tuner section

Tuning frequency range	87.5 MHz ~ 108 MHz
Usable sensitivity	
MONO	1.6 μV (at 75 Ω) / 15.2 dBf (75 kHz dev., SINAD. 30 dB)
50dB quieting sensitivity	
STEREO	31.6 μV (at 75 Ω) / 41.2 dBf (75 kHz dev.)
Signal to noise ratio (1 kHz, 75 kHz dev)	
MONO	73 dB (65 dBf input)
STEREO	68 dB (65 dBf input)
Selectivity (IHF ± 400 kHz)	50 dB
Stereo separation (1 kHz)	40 dB
Frequency response	30 Hz~15 kHz, +0.5 dB, -3.0 dB

AM Tuner section

Tuning frequency range	(9 kHz) 531 kHz ~ 1,602 kHz (10 kHz) 530 kHz ~ 1,610 kHz
Usable sensitivity	
(30% mod., S/N 20 dB)	20 μV / (700 μV / m)
Signal to noise ratio	
(at 30% mod 1 mV input)	48 dB

General

Power consumption	100 W
AC outlet	
UNSWITCHED	2 : (Total 100 W max)
Dimensions	W : 400 mm H : 106 mm D : 382 mm
Weight (net)	6.1 kg

R-A150 (En/T)

Audio section

Rated output power	
(DIN)1 kHz, 0.7% at 6 Ω	50 W + 50 W
Total harmonic distortion (1 kHz, 25 W, 6 Ω)	0.02 %
Frequency response	
LINE (CD)	10 Hz ~ 80 kHz, +0 dB, -3 dB
Signal to noise ratio (IHF'66)	
LINE (CD)	90 dB
Input sensitivity / impedance	
LINE (AUX)	200 mV / 47 kΩ
Tone controls	
BASS	± 8 dB (at 100 Hz)
TREBLE	± 8 dB (at 100 kHz)
Output level / impedance	
TAPE REC	200 mV / 2.2 kΩ
SUB WOOFER PRE OUT	2 V / 1 kΩ

FM Tuner section

Tuning frequency range	87.5 MHz ~ 108 MHz
Usable sensitivity (DIN)	
MONO	1.2 μV(at 75 Ω) / 13.2 dBf (40 kHz dev., S/N 26 dB)
STEREO	35 μV(at 75 Ω) / 42 dBf (46 kHz dev., S/N 46dB)
Signal to noise ratio (DIN weighted at 1kHz, 40 kHz dev.)	
MONO	65 dB (65.2 dBf input)
STEREO	60 dB (65.2 dBf input)
Selectivity (DIN ± 300 kHz)	64 dB
Stereo separation (DIN,1 kHz)	36 dB
Frequency response	30 Hz ~ 15 kHz, +0.5 dB, -3.0 dB

MW Tuner section

Tuning frequency range	531 ~ 1,602 kHz
Usable sensitivity	
(30% mod., S/N 20 dB)	20 μV / (700 μV / m)
Signal to noise ratio	
(at 30% mod. 1mV input)	48 dB

LW Tuner section

Tuning frequency range	153 kHz ~ 279 kHz
Usable sensitivity	
(30% mod.,S/N 20 dB)	35 μV
Signal to noise ratio	
(at 30% mod. 1mV input)	45 dB

General

Power consumption	120 W
AC outlet	
UNSWITCHED	2 : (Total 100 W max)
Dimensions	W : 400 mm H : 106 mm D : 382 mm
Weight (net)	6.1 kg



1. KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.
2. Full performance may not be exhibited in extremely cold locations (below 0 deg.C).

R-A100/A150/V300/V350

SPECIFICATIONS

R-V300 (U.S.A. and Canada)

Audio section

Rated output power during STEREO operation

70 watts per channel minimum RMS, both channels driven, at 6Ω from 40 Hz to 20 kHz with no more than 0.7% total harmonic distortion.(FTC)

Effective output power during SURROUND operation

FRONT (1 kHz, 5 % T.H.D. at 6 Ω)70 W + 70 W
CENTER(1 kHz, 5 % T.H.D. at 6 Ω)70 W
SURROUND (1 kHz, 5 % T.H.D. at 6 Ω)70 W

Rated output power during SURROUND operation

FRONT (1kHz,1% T.H.D. at 6Ω)45 W + 45 W
CENTER (1kHz,1% T.H.D. at 6 Ω)45 W
SURROUND (1kHz,1% T.H.D. at 3 Ω).....23 W + 23 W

Total harmonic distortion (1 kHz, 35 W, 6 Ω).....0.03 %

Frequency response

LINE(CD).....10 Hz ~80 kHz, +0 dB, -3 dB

Signal to noise ratio (IHF'66)

LINE (CD)92 dB

Input sensitivity / impedance

LINE (AUX)200 mV / 47 kΩ

Tone controls

BASS±8 dB(at 100 Hz)

TREBLE±8 dB(at 10 kHz)

Output level / impedance

TAPE REC200 mV / 2.2 kΩ

SUB WOOFER PRE OUT.....2 V / 1 kΩ

Video section

VIDEO inputs / outputs

(composite)1 Vp-p / 75 Ω

FM Tuner section

Tuning frequency range87.5 MHz ~ 108 MHz

Usable sensitivity

MONO1.6 μV(at75 Ω) / 15.2 dBf
(75 kHz dev., SINAD.30 dB)

50 dB quieting sensitivity

STEREO31.6 μV(75 Ω) / 41.2 dBf
(75 kHz dev.)

Signal to noise ratio (1 kHz 75 kHz dev.)

MONO73 dB (65 dBf input)

STEREO68 dB (65 dBf input)

Selectivity (IMF±400kHz).....70 dB

Stereo separation (1kHz)40 dB

Frequency response30 Hz ~15 kHz, +0.5 dB, -3.0 dB

AM Tuner section

Tuning frequency range530 kHz~1,700 kHz

Usable sensitivity

(30%mod.,S/N 20dB).....20 μV / (700 μV / m)

Signal to noise ratio

(at 30%mod.1mV input)48 dB

General

Power consumption180 W

AC outlet

UNSWITCHED2 : (Total 100 W max)

DimensionsW : 400mm (15-3/4")

H : 140mm (5-1/2")

D : 380mm(14-15/16")

Weight(net)8.9 kg(19.6lb)



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R-A100/A150/V300/V350

SPECIFICATIONS

R-V350

Audio section

Rated output power during STEREO operation
 (DIN) 1 kHz, 0.7 % at 6 Ω 70 W + 70 W

Effective output power during SURROUND operation
 FRONT (1kHz, 5 % T.H.D. at 6 Ω) 70 W + 70 W
 CENTER (1kHz, 5 % T.H.D. at 6 Ω) 70 W
 SURROUND (1kHz, 5 % T.H.D. at 6 Ω) 70 W

Rated output power during SURROUND operation
 FRONT (1 kHz, 1 % T.H.D. at 6 Ω) 45 W + 4 5 W
 CENTER (1 kHz, 1 % T.H.D. at 6 Ω) 45 W
 SURROUND (1 kHz, 1 % T.H.D. at 3 Ω) 23 W + 23 W

Total harmonic distortion (1 kHz, 35 W, 6 Ω) 0.03 %

Frequency response
 LINE (CD) 10 Hz ~ 80 kHz, + 0 dB, - 3 dB

Signal to noise ratio (IHF'66)
 LINE (CD) 92 dB

Input sensitivity / impedance
 LINE (AUX) 200 mV / 47 kΩ

Tone controls
 BASS ±8 dB (at 100 Hz)
 TREBLE ±8 dB (at 10 kHz)

Output level / impedance
 TAPE REC 200 mV / 2.2 kΩ
 SUB WOOFER PRE OUT 2 V / 1 kΩ

Video section

VIDEO inputs / outputs
 (composite) 1 Vp-p / 75 Ω

FM Tuner section

Tuning frequency range 87.5 MHz ~ 108 MHz

Usable sensitivity (DIN)
 MONO 1.2 μV (at 75 Ω) / 13.2 dBf
 (40 kHz dev., S/N 26 dB)
 STEREO 35 μV (at 75 Ω) / 42 dBf
 (46 kHz dev., S/N 46 dB)

Signal to noise ratio (DIN weighted at 1 kHz, 40 kHz dev.)
 MONO 65 dB (65.2 dBf input)
 STEREO 60 dB (65.2 dBf input)

selectivity (DIN ±300 kHz) 64 dB

stereo separation (DIN, 1 kHz) 36 dB

Frequency response 30 Hz ~ 15 kHz, +0.5 dB, -3.0 dB

MW Tuner section

Tuning frequency range 531 kHz ~ 1,602 kHz

Usable sensitivity
 (30% mod., S/N 20 dB) 20 μV / (700 μV / m)

Signal to noise ratio
 (at 30% mod. 1 mV input) 48 dB

LW Tuner section

Tuning frequency range 153 kHz ~ 279 kHz

Usable sensitivity
 (30% mod., S/N 20 dB) 35 μV

Signal to noise ratio
 (at 30% mod. 1 mV input) 45 dB

General

Power consumption 190 W

AC outlet
 UNSWITCHED 2 : (Total 100 W max)

Dimensions W : 400 mm
 H : 140 mm
 D : 380 mm

Weight (net) 8.9 kg



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R-A100/A150/V300/V350

Note:

Component and circuit are subject to modification to insure best operation under differing local conditions. This manual is based on Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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