

STEREO INTEGRATED AMPLIFIER/TUNER

C-V100/V150/V300/V350

SERVICE MANUAL

KENWOOD

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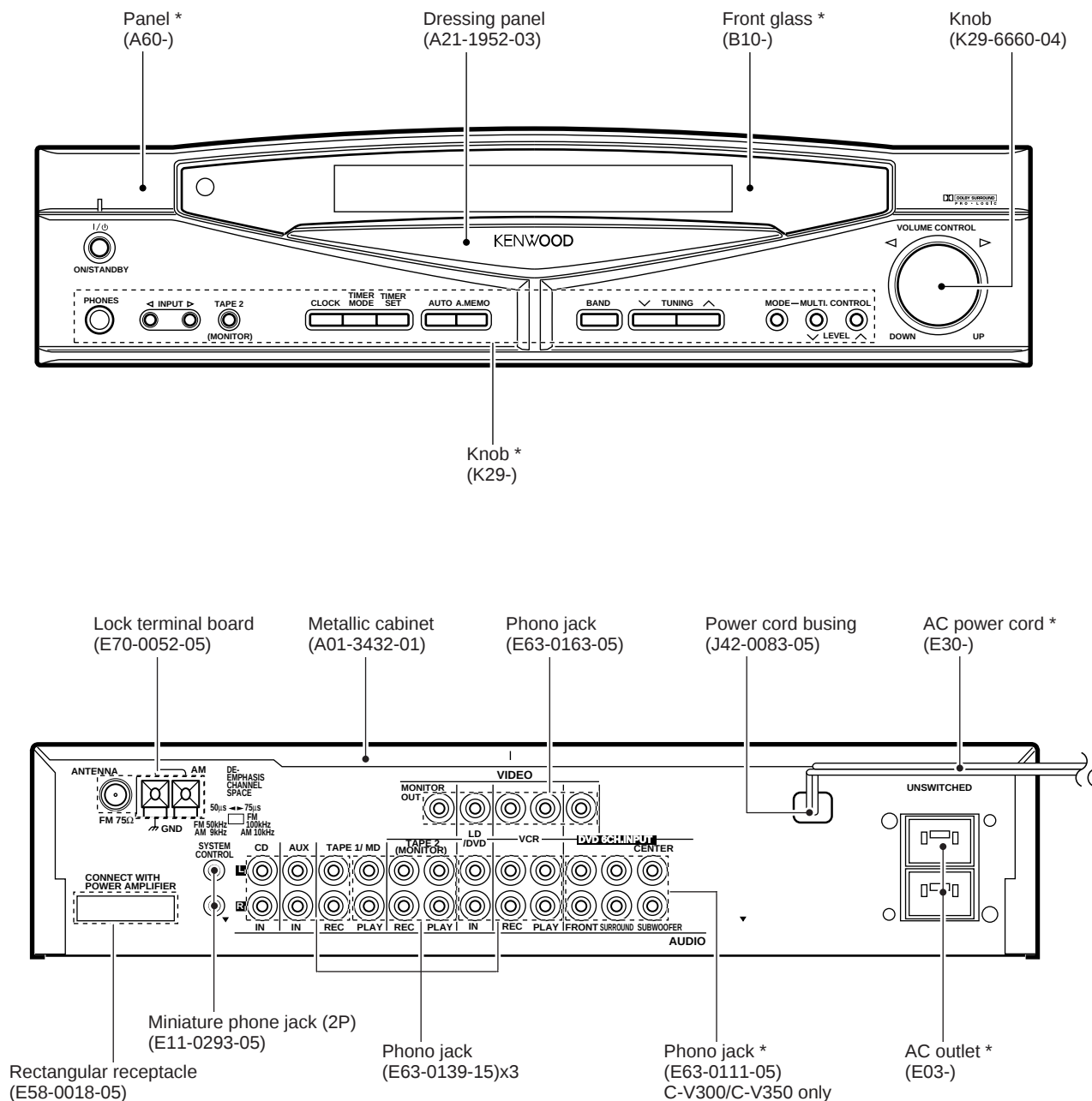


Illustration is C-V100.

* Refer to parts list on page 33.

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

C-V100/V150/V300/V350

CONTENTS / ACCESSORIES

Contents

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How to reset the microcomputer

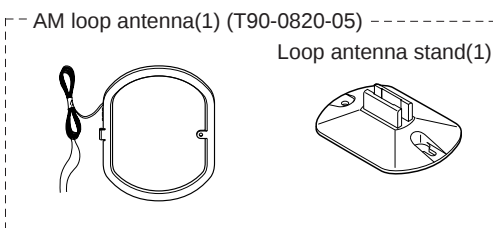
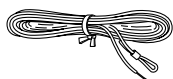
The microcomputer may malfunction (impossibility operation, erroneous display, etc.) when the power cord is unplugged and plugged in again while the unit is in ON mode with the Key pressed or due to other external causes. In this case, execute the procedure on the right to reset the microcomputer and return the unit to the normal condition.

- ① Unplug the power cord from the wall outlet.
- ② While pressing and holding the POWER or (ON/STANDBY) key, plug the AC cord into the wall outlet again

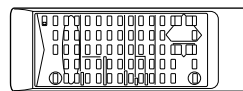
- Resetting the microcomputer clears the memory you entered and returns in to the initial condition when the unit left the factory.

Accessories (C-V100/300)

FM indoor antenna(1)
(T90-0809-05): MICX type
(T90-0810-05): KPY type



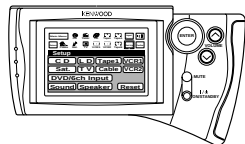
Remote control unit(1) *
(C-V100)
(Except U.S.A. and Canada)



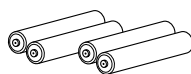
Cable tidy(2)
(F07-0102-04)



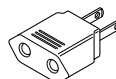
Graphical Remote Control unit(1) *
(C-V300)
(C-V100, only U.S.A. and Canada) *



Batteries(R03/AAA) (4)
(C-V300)
(C-V100, only U.S.A. and Canada)

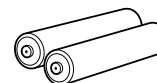


*AC plug adapter (1)
(E03-0115-05)



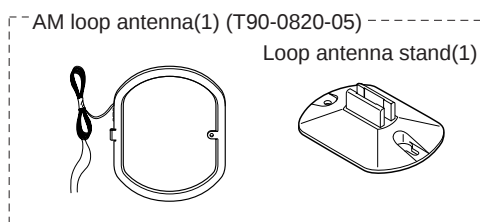
* Use to adapt the plug on the power cord to the shape of the wall outlet. (Accessory only for regions where use is necessary)

Batteries(R6/AA) (2)
(C-V100)
(Except U.S.A. and Canada)

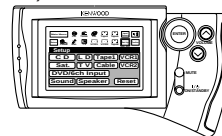


(C-V150/350)

FM indoor antenna(1)
(T90-0809-05): MICX type
(T90-0810-05): ET type



Graphical Remote Control unit(1) *
(C-V350)

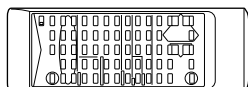


(Optional with the C-V150)

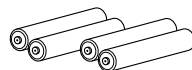
Cable tidy(2)
(F07-0102-04)



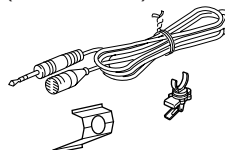
Remote control unit(1) *
(C-V150)



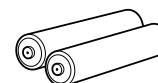
Batteries(R03/AAA) (4)
(C-V350)



Microphone(1)
(W01-0935-05)



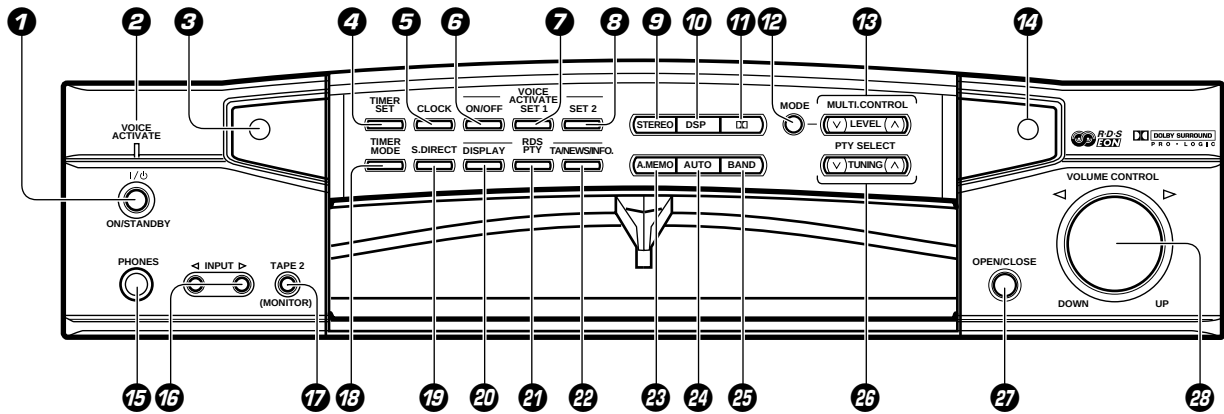
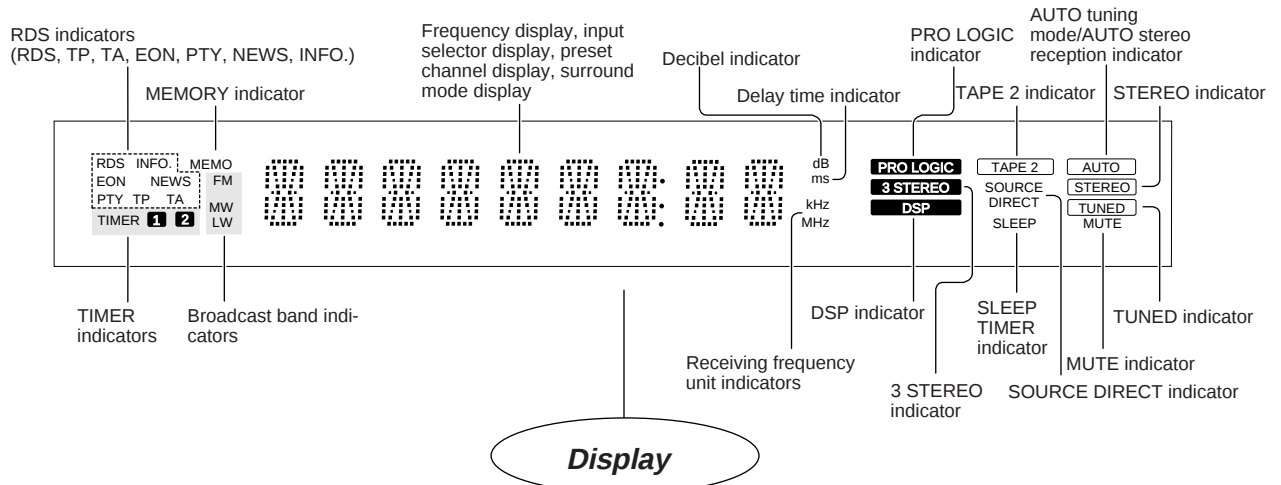
Batteries(R6/AA) (2)
(C-V150)



* Refer to parts list on page 33.

C-V100/V150/V300/V350

CONTROLS



The keys which have the same names as the controls on the remote control unit provide the same functions as them.

- 1 I/⏻ (ON/STANDBY) key**
Press to switch between ON and STANDBY.
- 2 VOICE ACTIVATE indicator**
Lights to indicate an occurrence of voice activation.
- 3 Remote sensor**
- 4 TIMER SET key**
Press to set the timer function.
- 5 CLOCK key**
Press to set the clock.
- 6 VOICE ACTIVATE ON/OFF key**
Press to switch the voice-activation operation ON and OFF.
- 7 VOICE ACTIVATE SET 1 key**
Press to record words for use in voice activation.
- 8 VOICE ACTIVATE SET 2 key**
Press to record words for use in voice activation.
- 9 STEREO key**
- 10 DSP key**
- 11 DOLBY key**
- 12 MODE key**
Press to switch various setting modes.
- 13 MULTI.CONTROL key**
Press to select various setting modes.
- 14 GRC transmitter**
Outputs the signals transmitted to the Graphical Remote Control.
- 15 PHONES jack**
For use in headphones listening.
- 16 INPUT SELECTOR key**
Press to select the input.
- 17 TAPE 2 (MONITOR) key**
For use in monitoring of recording, etc.
- 18 TIMER MODE key**
Press to switch the timer modes.
- 19 S.DIRECT key**
Press to switch the Source Direct function which allows to reproduce the source with a better quality.
- 20 RDS DISPLAY key**
Press to switch the RDS display.
- 21 RDS PTY key**
For use during reception of RDS broadcasting.
- 22 RDS TA/NEWS/INFO. key**
For use during reception of RDS broadcasting.
- 23 A.MEMO key**
Press when using the auto memory function.
- 24 AUTO key**
Press to select the tuning mode. The auto tuning or manual tuning mode can be selected. The input selection display of a source can be switched to another by pressing and holding the **AUTO** key for more than 2 seconds.
- 25 BAND key**
Press to switch the broadcasting band.
- 26 TUNING keys (▲, ▼)**
Press to select the radio station to be received. These keys are also used in the clock adjustment and timer operations.
- 27 OPEN/CLOSE key**
- 28 VOLUME CONTROL knob**

STANDBY mode indication

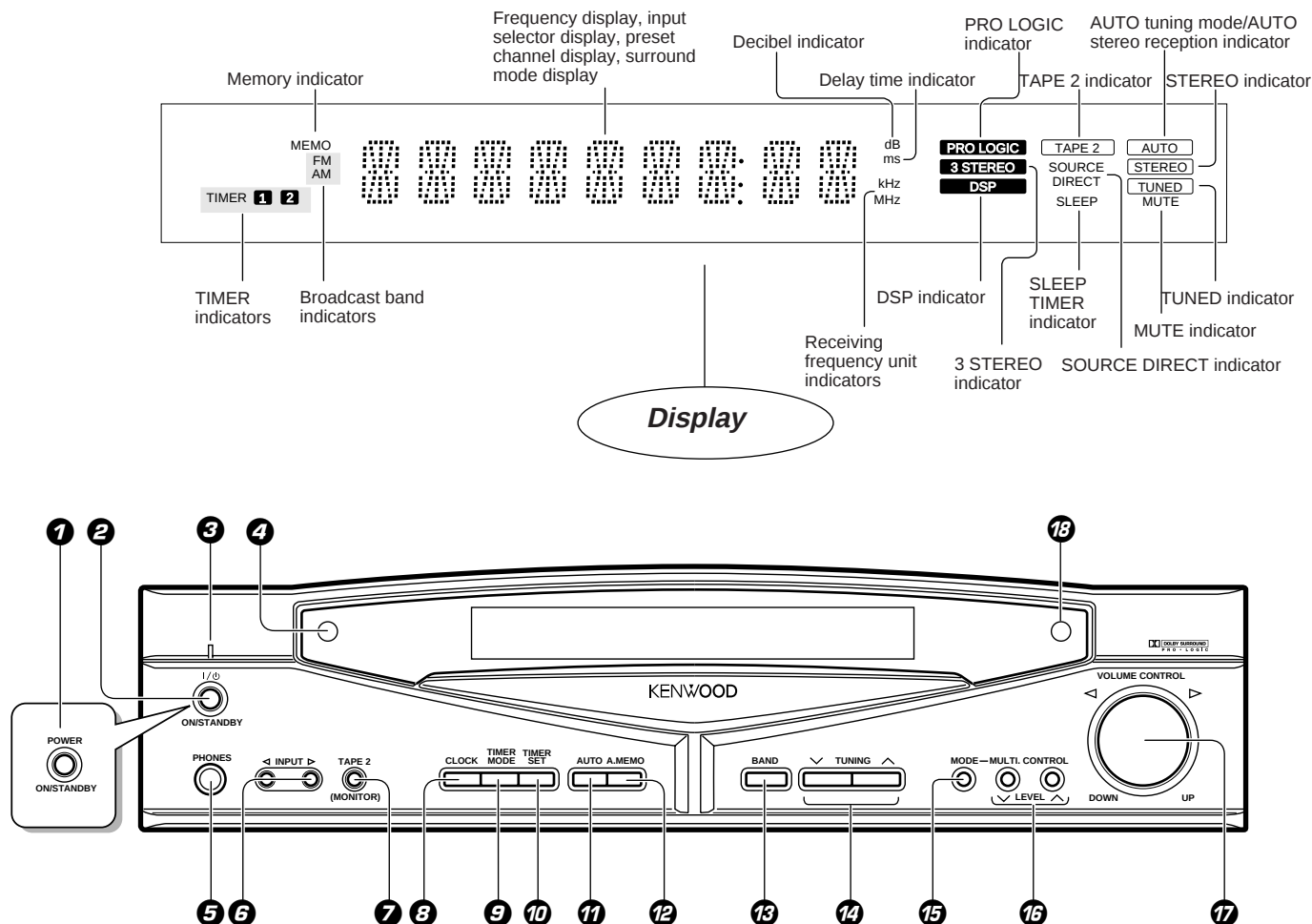
While standby mode is indicated, a small amount of power is supplied to the system to back up the memory. In this mode, the system can be turned ON by remote control.

With this unit, standby mode is indicated by means of the display panel. The system is in standby mode while the clock display is shown.

C-V100/V150/V300/V350

CONTROLS

For C-V100



The keys which have the same names as the controls on the remote control unit provide the same functions as them.

1 POWER

(ON/STANDBY) key
(U.S.A. and Canada)

Press to switch between ON and STANDBY.

2 I/O (ON/STANDBY) key

Press to switch between ON and STANDBY.

3 STANDBY indicator

4 Remote sensor

5 PHONES jack

For use in headphones listening.

6 INPUT SELECTOR key

Press to select the input.

7 TAPE 2 (MONITOR) key

For use in monitoring of recording, etc.

8 CLOCK key

Press to set the clock.

9 TIMER MODE key

Press to switch the timer modes.

10 TIMER SET key

Press to set the timer function.

11 AUTO key

Press to select the tuning mode.
The auto tuning or manual tuning mode can be selected.

The input selection display of a source can be switched to another by pressing and holding the **AUTO** key for more than 2 seconds.

12 A.MEMO key

Press when using the auto memory function.

13 BAND key

Press to switch the broadcasting band.

14 TUNING keys (up, down)

Press to select the radio station to be received.

These keys are also used in the clock adjustment and timer operations.

15 MODE key

Press to switch various setting modes.

16 MULTI. CONTROL key

Press to select various setting modes.

17 VOLUME CONTROL knob

18 GRC transmitter

Outputs the signals transmitted to the Graphical Remote Control.

STANDBY mode indication

While standby mode is indicated, a small amount of power is supplied to the system to back up the memory. In this mode, the system can be turned ON by remote control.

CONTROLS

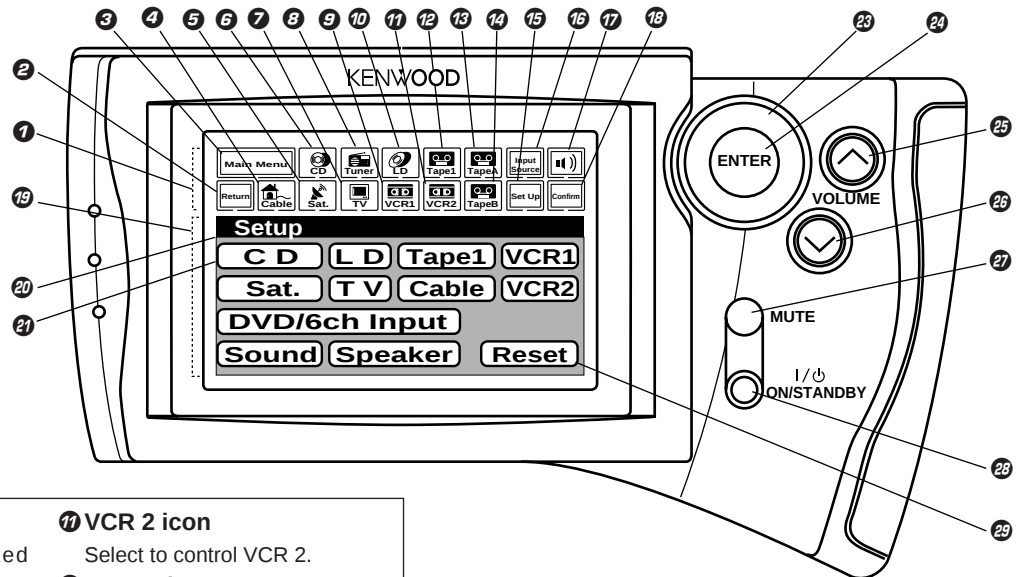
Controls and indicators

The Graphical Remote Control (GRC) unit provided with the AV CONTROL CENTER can also control KENWOOD cassette decks, CD player and LD player which are connected to it through system control cords. For details of the controllable functions, refer to the instruction manuals of these components.

Model: GRC-100/150
Infrared system



Perform "Model Type Setup" of the GRC before using it.

**Segment screen****① Segment screen**

This area displays the fixed icons.

② Return icon

Select to return to the previous display.

③ Main Menu icon

Select to change the input source or select Main Menu 2.

④ Cable TV icon

Select to control the cable TV.

⑤ Satellite Tuner icon

Select to control the satellite tuner.

⑥ CD icon

Select to control the CD player.

⑦ TV icon

Select to control the TV.

⑧ Tuner icon

Select to control the tuner.

⑨ VCR 1 icon

Select to control VCR 1.

⑩ LD icon

Select to control the LD player.

⑪ VCR 2 icon

Select to control VCR 2.

⑫ Tape 1 icon

Select to control cassette deck 1.

⑬ Tape A icon

Select to control cassette deck A.

⑭ Tape B icon

Select to control cassette deck B.

⑮ Set Up icon

Select to make setup operations.

⑯ Input Source icon

Select to switch the input source.

⑰ Sound icon

Select to control the sound-related functions.

⑱ Confirm icon

Select to confirm a setting, etc.

• The input source can be selected using icon ③ or ⑯.

• Icons ④ to ⑭ are used to select the component to be controlled.

Menu screen**⑲ Menu screen**

This area displays the control key icons and level information.

⑳ Mode display

The above illustration indicates the Setup mode.

㉑ CD icon

Select to set up the CD player.

㉒ Reset icon

Select to return to the "Model Type Setup" menu screen.

Operation keys**㉓ Joystick key**

For use in selecting icons. The joystick moves in 8 directions.

㉔ ENTER key

Press to enter a selection.

㉕ VOLUME (UP) control key

Press to increase the volume level.

㉖ VOLUME (DOWN) control key

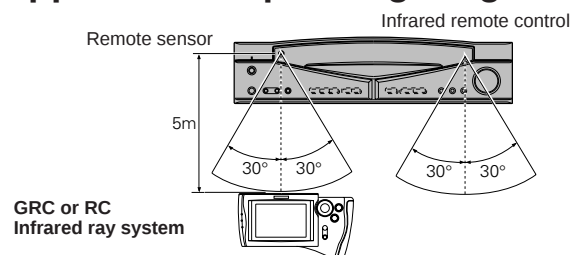
Press to decrease the volume level.

㉗ MUTE key

Press to mute sound temporarily.

㉘ I/O (ON/STANDBY) key

Press to switch the AV CONTROL CENTER and the components connected to it through system control cords between ON and STANDBY.

Approximate operating range

1. The supplied batteries are intended for use in operation check. Therefore, their lives may be shorter than ordinary batteries.
2. When the remote-controllable distance gets shorter than before, replace all four batteries with new ones.
3. Malfunction may occur if direct sunlight or the light of a high-frequency lighting fluorescent lamp enters the remote sensor. In such a case, change the system installation position to prevent the malfunction.
4. The GRC display may show erroneous information when the GRC unit is operated from outside the specified range.

CONTROLS

Names and functions of the keys

The "RC" remote control unit provided with the AV CONTROL CENTER can also control KENWOOD cassette decks, CD player and LD player connected to the AV CONTROL CENTER through system control cords. For details of the controllable functions, refer to the instruction manuals of these components.

The RC keys with the same names as the corresponding keys on the main unit have the same function as the main unit keys.

1 I/ψ (POWER) key

Press to switch the AV CONTROL CENTER and the components connected to it through system control cords between ON and STANDBY.

2 A ↔ B switch

Some of the RC keys function in two ways. The key functions indicated inside () are usable when this switch is set to B.

Usually set this switch to A. In this manual, the description of a function which requires this switch to be set to B is accompanied with the illustration of .

3 Numeric keys

Use these keys as the numeric key of the currently selected input source component.

4 TUNER operation keys

BAND key
(RDS DISPLAY key)
MEMO key
(AUTO MEMORY key)
P.CALL ▽:down key
(PTY key)
P.CALL △:up key
(TA/NEWS/INFO. key)

5 LD player operation key

Read the instruction manual of the LD player.

 **CX key**
AUTO DIGITAL key

6 AV CONTROL CENTER operation keys

PRO LOGIC key
3 STEREO key
DSP key
STEREO key
SOURCE DIRECT key
TEST TONE key
MODE key

Use this key to select the setting modes.

MULTI CONTROL LEVEL

△: up key, ▽: down key

Use these keys to adjust the tone or set the surround play.

TAPE 2 (MONITOR) key

INPUT key

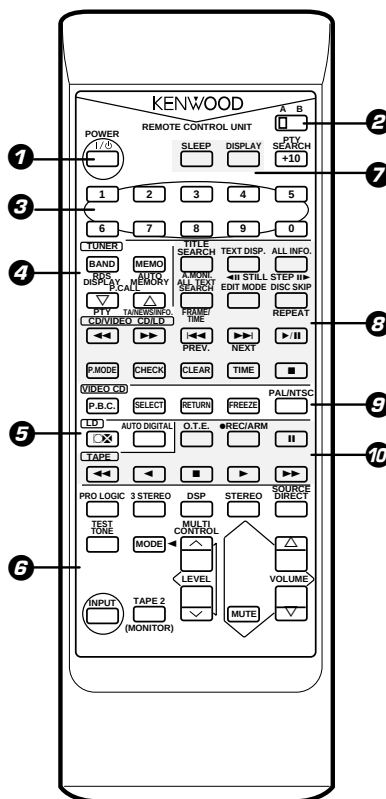
Use this key as the input selector key.

MUTE key

Use this key to mute the sound temporarily.

VOLUME △: up key, ▽: down key

Use these keys to adjust the volume.



Model: RC-S503/RC-S505
Infrared system

10 Cassette deck operation keys

Read the instruction manual of the cassette deck.

• **REC/ARM key**
II key
◀◀ key
▶▶ key
■ key
▶ key
▶▶ key
(O.T.E. key)

7 Key

SLEEP key

Press when setting the sleep timer.

DISPLAY key

Press to switch the displayed information.

8 CD/VIDEO CD/LD player operation keys

Read the instruction manuals of the CD player, VIDEO CD player and/or LD player.

TITLE SEARCH key

(A.MONI key)

TEXT DISP. key

(STILL STEP ◀◀ key)

ALL INFO. key

(STILL STEP ▶▶ key)

ALL TEXT SEARCH key

(FRAME/TIME key)

EDIT MODE key

DISC SKIP key

(REPEAT key)

◀◀ key

▶▶ key

◀◀ key (PREV.)

▶▶ key (NEXT)

▶/II key

P.MODE key

CHECK key

CLEAR key

TIME key

■ key

9 VIDEO CD player-specific operation keys

Read the instruction manual of the VIDEO CD player.

P.B.C. key

SELECT key

RETURN key

FREEZE key

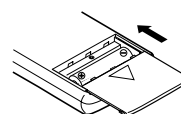
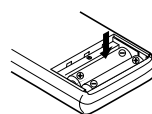
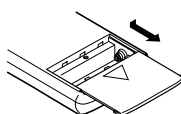
PAL / NTSC key

Loading batteries

1 Slide open the cover.

2 Insert batteries.

3 Close the cover.

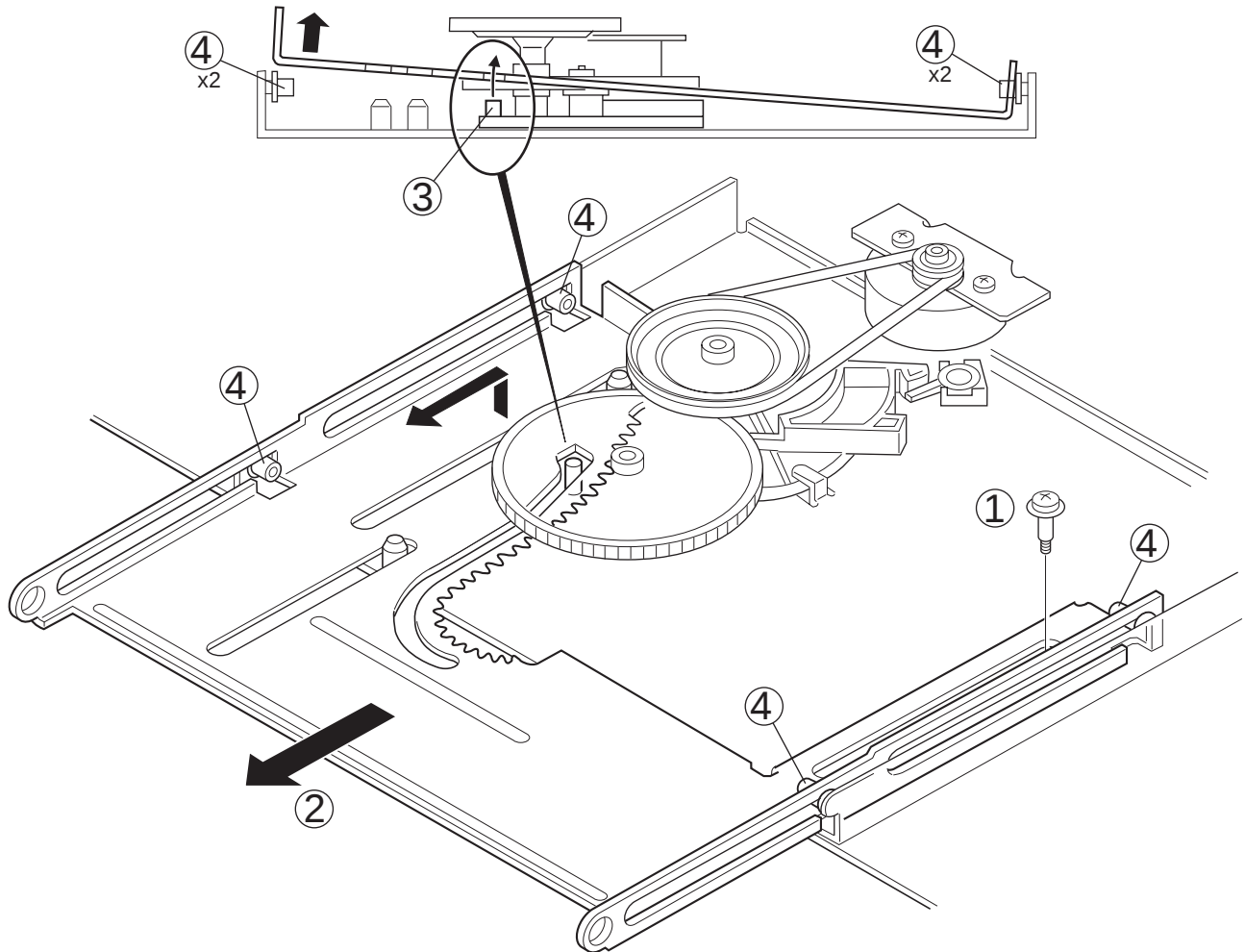


• Insert two AA-size (R6/SUM-3) batteries as indicated by the polarity marking.

C-V100/V150/V300/V350

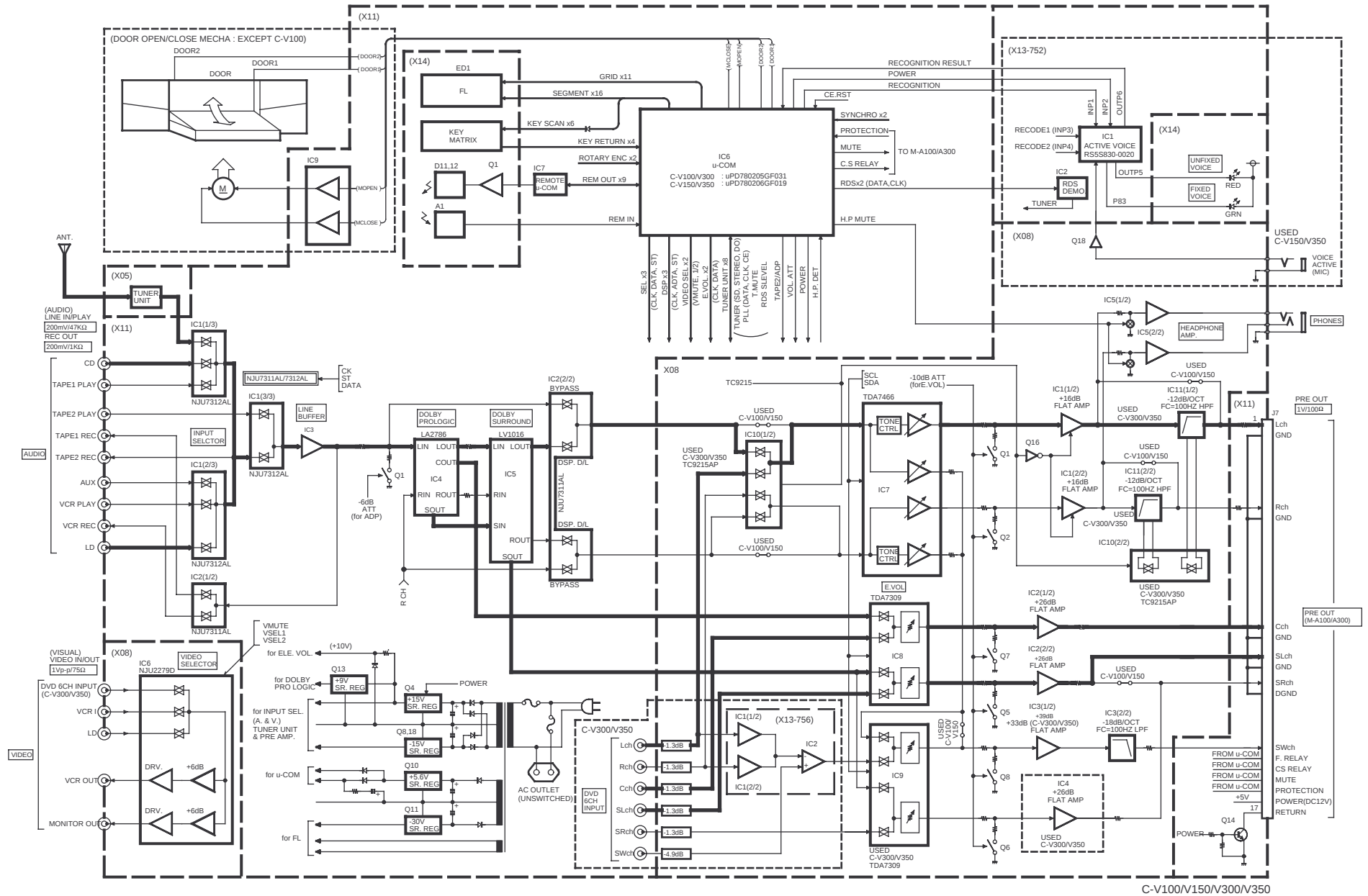
DISASSEMBLY FOR REPAIR

1. Remove the 1 screw (①), Then pull the slider (②) till last
2. While raise the slider of left side, remove the slider from the bosses (③,④)



C-V100/V150/V300/V350

BLOCK DIAGRAM



C-V100/V150/V300/V350

CIRCUIT DESCRIPTION

1. New Functions

1-1 Amp section

- (a) LCD Remote Control with System Control Code
Display on remote control shows the present condition of others units; CD player, cassette deck and so.
- (b) One Touch Operation
 - In power off mode, system will turn on and start to playback if play key on every unit; CD, DECK, DVD, and MD will be pressed .
 - In power off mode, system will turn on and start to open if open/close key on every unit; CD, DECK (single), DVD, and MD will be pressed
- (c) Voice Activation (C-V150/V350)
In voice activation mode, when system has "KENWOOD" word it will turn on and start to playback CD or LD player even if power switch is turn off.
Key word will be available of changing any other word.
- (d) Automatic Power-off
The system will be turned off if it is turned on by voice activation and selector keeps position at CD or LD position and system does to stop condition for 30 mints in CD or LD mode.

1-2 Tuner section

- EON(Enhanced Other Network) (C-V150/V350)
 - Automatic memory (broadcasting station name with sort mode), FM station will be morized after RDS station are done.
 - In the case of broadcasting TA(Traffic information), NEWS(PHY), and INFO(PHY) in same network station, system will receive TA, NEWS, INFO or normal broadcastings automatically.

2. Backup and Initial Data

Power	:off
Main volume	:-65dB
Audio selector	:tuner
Video selector	:vcr
Tape 1/md	:tape 1
Ld/dvd(C-V300/V350)	:ld
Tape 2/monitor	:off
FI display mode	:selector
Source direct	:off
Surround mode	:stereo
Dolby mode	:pro logic
Dsp mode	:Arena
Speaker level	:0dB
Balance	:Center
Input level	:0dB
Delay time	:20ms
Effect level	:3
Tone bass	:0dB
Tone treble	:0db
Tuning mode	:Auto
Preset memory	:Test frequency
Last band	:FM
Fm last frequency	:87.5MHz
Am (mw) last frequency	:531kHz
	(channel space 9kHz)
	:530kHz
	(channel space 10kHz)
Lw last frequency	:153kHz
Last P.ch	:-ch
PTY select mode(C-V150/V350)	:off
RDS display mode	:frequency
TA/NEWS/INFO	:off
Clock	:A.M.12:00
Timer	:off
Sleep timer	:off
Voice activation key word	:KENWOOD
Voice activation	:on

*Initial setting : While pressing the CD key, plug the power cord into the ac power outlet.

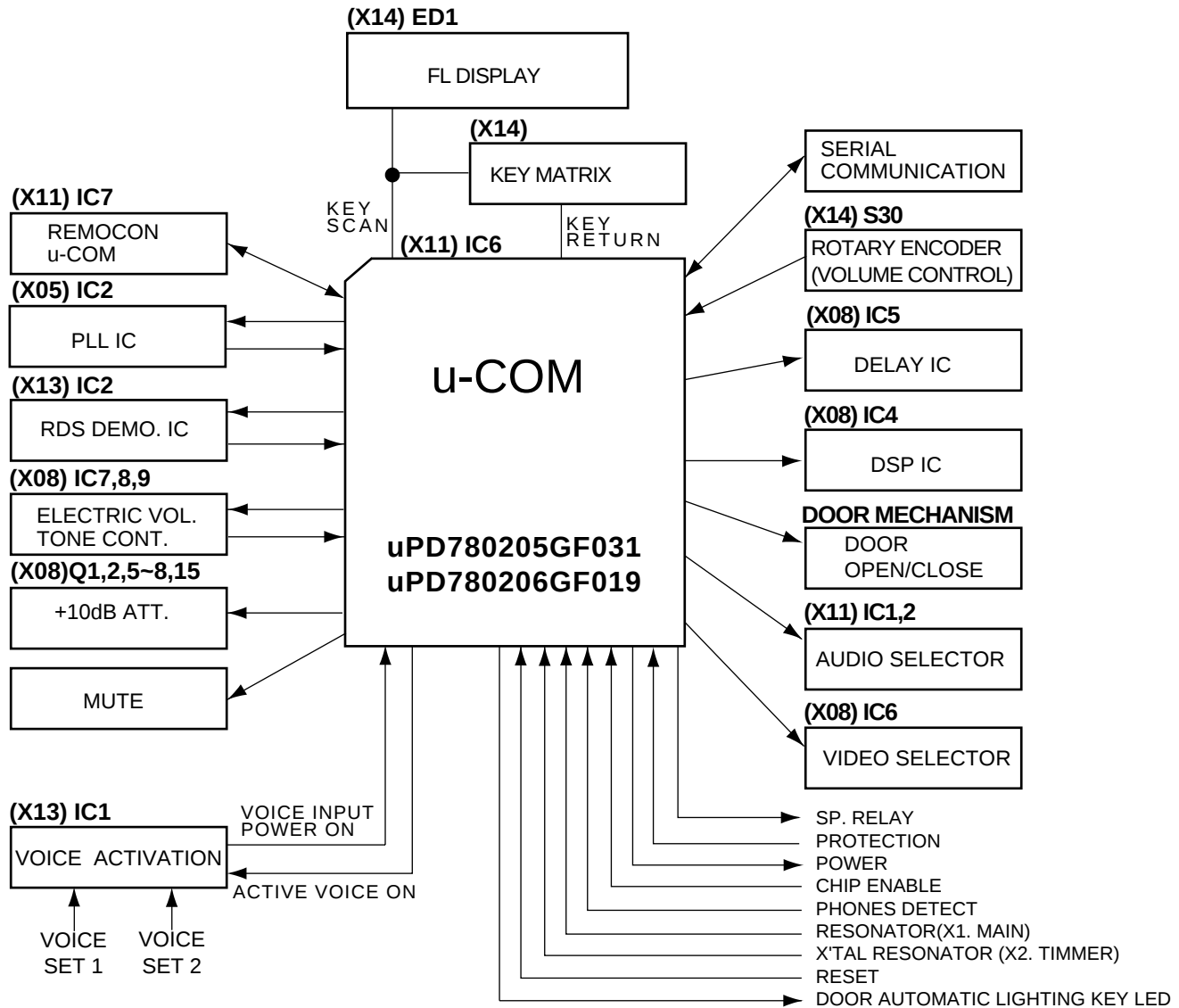
C-V100/V150/V300/V350

CIRCUIT DESCRIPTION

3. Main microprocessor uPD 780205GF031 (X11 : IC6) : C-V100/V300

uPD 780206GF019 (X11 : IC6) : C-V150/V350

3-1 Microprocessor periphery block diagram



3-2 Key matrix

No. into ○: Pin No. of main u-COM

	② KR3	③ KR2	④ KR1	⑤ KR0
⑦③ KS0	(S.DIRECT)	(STEREO)	(DSP)	(DOLBY)
⑦④ KS1	VOICE ON / OFF	DISPLAY (RDS)	PTY	TA / NEWS / INFO.
⑦⑤ KS2	MODE	MULTI LEVEL ◁	MULTI LEVEL ▷	(OPEN / CLOSE)
⑦⑥ KS3	CLOCK SET	AUTO MEMORY	BAND	AUTO
⑦⑦ KS4	TUNING △	TIMER SET	INPUT ◁	INPUT ▷
⑦⑧ KS5	TUNING ▽	TIMER MODE	ON / STANDBY	TAPE 2 (MONITOR)
KS6				
⑧① KS7	DSW0 / D15	DSW1 / D14	DSW2 / D13	DSW3
⑧② KS8	DSW4 / D16			

- () : C-V300/V350 function
- DSW1 ~ DSW4 : Tuner distinction
- DSW5 : C-V100/V150 or C-V300/V350 Model distinction
- PTY, TA / NEWS / INFO, DISPLAY (RDS) : RDS function model (C-V150/V350)

CIRCUIT DESCRIPTION

3-3 Pin description

Pin No.	Port 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	DOOR_LED	O	Door led automatic light key
39	REMOCON_IN	I	Input port of remote control signal
40	Vss	–	GND
41	+10dB_ATT	O	+10dB attenuator L : Att on
42	VOL_DATA	I/O	Electric volume control data
43	INPUT_LEVEL	O	0/-6dB switch of input level
44	DOOR_DET1	I	Door open detection switch
45	DOOR_DET2	I	Door close detection switch
46	Vdd	–	Power supply (+5V)
47	M_OPEN	O	Motor open function
48	M_CLOSE	O	Motor close function
49	CS_RELAY	O	Center and surround speaker relay control L : C, Sch off
50	F_RELAY	O	Front and sub-woofer speaker relay control L : L, R, Switch off
51	TC9215	O	2/6ch switch of input L : 2ch
52	REM_RWRREQ	O	Rewrite request signal of left-right remote control data L : Request
53	REM_PWR	I	Rewrite in signal of left-right remote control data L : rewrite-in

C-V100/V150/V300/V350

CIRCUIT DESCRIPTION

Pin No.	Port Name	I/O	Description
54	REM_REREN	I	Transmit signal of left-right remote control dat L : Transmission
55~62	INP0-7	O	Remote control data bits 0-7
63	VOICE_CTRL	O	Voice activation/standby led
64	SEL_STB1	O	Strobe signal for selector ic
65	SEL_DATA	O	Data signal for selector ic
66	SEL_CLK	O	Clock signal for selector ic
67	VOICE_CTRL	I	Input port of voice activation
68	VOL_CLK	O	Clock signal for electric volume
69~71	VSEL1-3	O	Video selector 1-3
72	POWER	O	Power relay control
73~78	SEG 11-16	O	Display segment control 11-16/key scan 0-5
79	Vload	–	Connect to pull down resistor
80	SEG10	O	Display segment control 10
81	SEG9	O	Display segment control 9/key scan 7(tuner selection)
82	SEG8	O	Display segment control 8/key scan8(model selection)
83~89	SEG1-7	O	Display segment control 1-7
90~100	GRID1-11	O	Display grid control 1-11

3-4 DESTINATION LIST OF TUNER

Destination	Band	Frequency Range	Channel space	IF	PLL Frequency	Diode SW (X11)			
						DSW3	DSW2 (D13)	DSW1 (D14)	DSW0 (D15)
K1 (1700)	FM	87.5MHz ~ 108.0MHz	100kHz	-10.7MHz	50kHz	0	0	0	0
	AM	530kHz ~ 1700kHz	10kHz	+450kHz	10kHz				
K2 (1610)	FM	87.5MHz ~ 108.0MHz	100kHz	+10.7MHz	25kHz	0	0	0	1
	AM	530kHz ~ 1610kHz	10kHz	+450kHz	10kHz				
E1	FM	87.5MHz ~ 108.0MHz	50kHz	+10.7MHz	25kHz	0	0	1	1
	AM	531kHz ~ 1602kHz	9kHz	+450kHz	9kHz				
E3 (RDS)	FM	87.5MHz ~ 108.0MHz	50kHz	+10.7MHz	25kHz	0	1	0	1
	AM	531kHz ~ 1602kHz	9kHz	+450kHz	9kHz				
E4 (LW) (RDS)	FM	87.5MHz ~ 108.0MHz	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	(Q3, D11) X	1

☆ Diode SW (DSWx) :

0 = no diode (static mode, LOW)

1 = diode (static mode, HIGH)

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

3-5 MODEL DISTINCTION

- C-V350, 300/C-V150, 100

MODEL	DIODE SW (X11) D16
C-V150, 100	0
C-V350, 300	1

CIRCUIT DESCRIPTION

[TEST MODE]

1. SETTING

SETTING	While depressing the ◁ INPUT ▷ key, then plug the power cord into AC outlet. The display becomes the all lighting, then push a key. The display becomes normal.
CANCEL	POWER OFF (Remove the AC plug from the AC outlet)

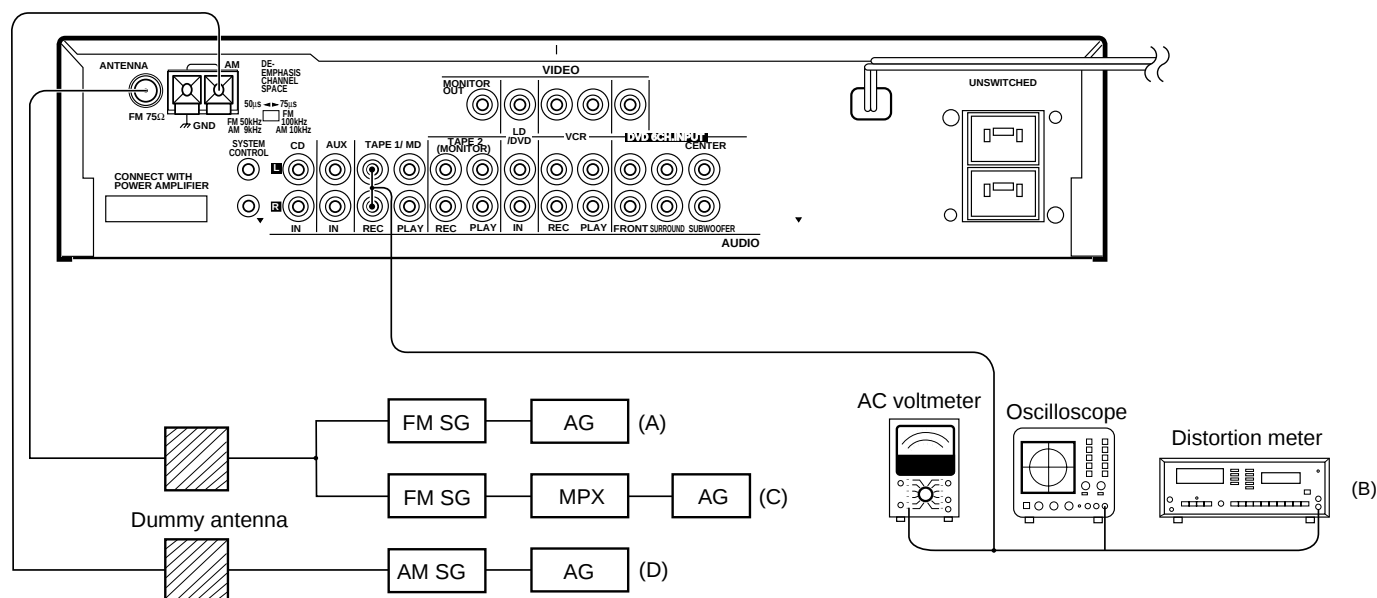
2. DESCRIPTION

	OPERATION KEY	TUNER	EXCEPT TUNER	REMARKS																																														
1	◁ INPUT ▷	→ 00 87.50 ↔ CD ↔ LD ↔ 6ch INPUT(C-V300/V350 only) ← → TAPE 1 ↔ AUX ↔ VCR ←																																																
2	TIMER SET	PRESET ch UP	PROLOGIC ↔ 3 STEREO																																															
3	TIMER MODE	PRESET ch DOWN	→ ARENA → JAZZ CLUB ← → STADIUM ←																																															
4	CLOCK	FL lighting ON ↔ OFF	STEREO MUTE ON ↔ OFF																																															
5	DISPLAY	TIMER NO PS ↔ 01 87.50		C-V150/V350																																														
6	PTY	→ INPUT SELECTOR → OFF, S-LEVEL → ON, S-LEVEL ←		C-V150/V350																																														
7	TA/NEWS/INFO	→ TA → NEWS → INFO ←		C-V150/V350																																														
8	STEREO	STEREO MUTE ON ↔ OFF		EXCEPT C-V100																																														
9		PRO LOGIC ON ↔ OFF	PRO LOGIC ↔ 3 STEREO (TEST TONE ON / OFF by AUTO key)	EXCEPT C-V100																																														
10	A, MEMO	FREQUENCY UP																																																
11	AUTO	AUTO ON ↔ OFF	SOURCE DIRECT ON ↔ OFF	STEREO																																														
12	MODE	<table><tr><th>Key</th><th>LEVEL</th></tr><tr><td> MODE </td><td></td></tr><tr><td>BASS</td><td>DOWN↔UP</td></tr><tr><td>TREBLE</td><td></td></tr><tr><td>LR BALANCE</td><td></td></tr><tr><td>SW ch</td><td></td></tr><tr><td>INPUT</td><td>-6dB↔0dB</td></tr></table>	Key	LEVEL	MODE		BASS	DOWN↔UP	TREBLE		LR BALANCE		SW ch		INPUT	-6dB↔0dB	<table><tr><th>key</th><th>LEVEL</th><th>TUNING</th><th>BAND</th></tr><tr><td>VOLUME</td><td></td><td>-89dB↔0dB</td><td>-40dB</td></tr><tr><td>SP. SW</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>INPUT</td><td>-6dB↔0dB</td><td>-6dB↔0dB</td><td>0</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>Lmax↔Rmax</td><td>CENTER</td></tr><tr><td>TONE</td><td></td><td>MIN↔MAX</td><td>FLAT</td></tr></table>	key	LEVEL	TUNING	BAND	VOLUME		-89dB↔0dB	-40dB	SP. SW		MIN↔MAX	0dB	DELAY		15↔30	20	INPUT	-6dB↔0dB	-6dB↔0dB	0	EFFECT		1↔5	3	L. R BALANCE	DOWN↔UP	Lmax↔Rmax	CENTER	TONE		MIN↔MAX	FLAT	
Key	LEVEL																																																	
MODE																																																		
BASS	DOWN↔UP																																																	
TREBLE																																																		
LR BALANCE																																																		
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EFFECT		1↔5	3																																															
L. R BALANCE	DOWN↔UP	Lmax↔Rmax	CENTER																																															
TONE		MIN↔MAX	FLAT																																															

ADJUSTMENT

No.	ITEM	INPUT SETTING	OUTPUT SELECTOR	TUNER/AMP SETTING	ALIGNMENT POINTS	ALIGN FOR	FIG.
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 distortion	
2	DISTORTION (STEREO)	(C) 98.0MHz 1kHz, ±40kHz dev pilot: ±6kHz dev 60dBu (ANT INPUT)	(B)	AUTO (98.0MHz)	IFT (W02-)	Minimum distortion	(a)

(a)

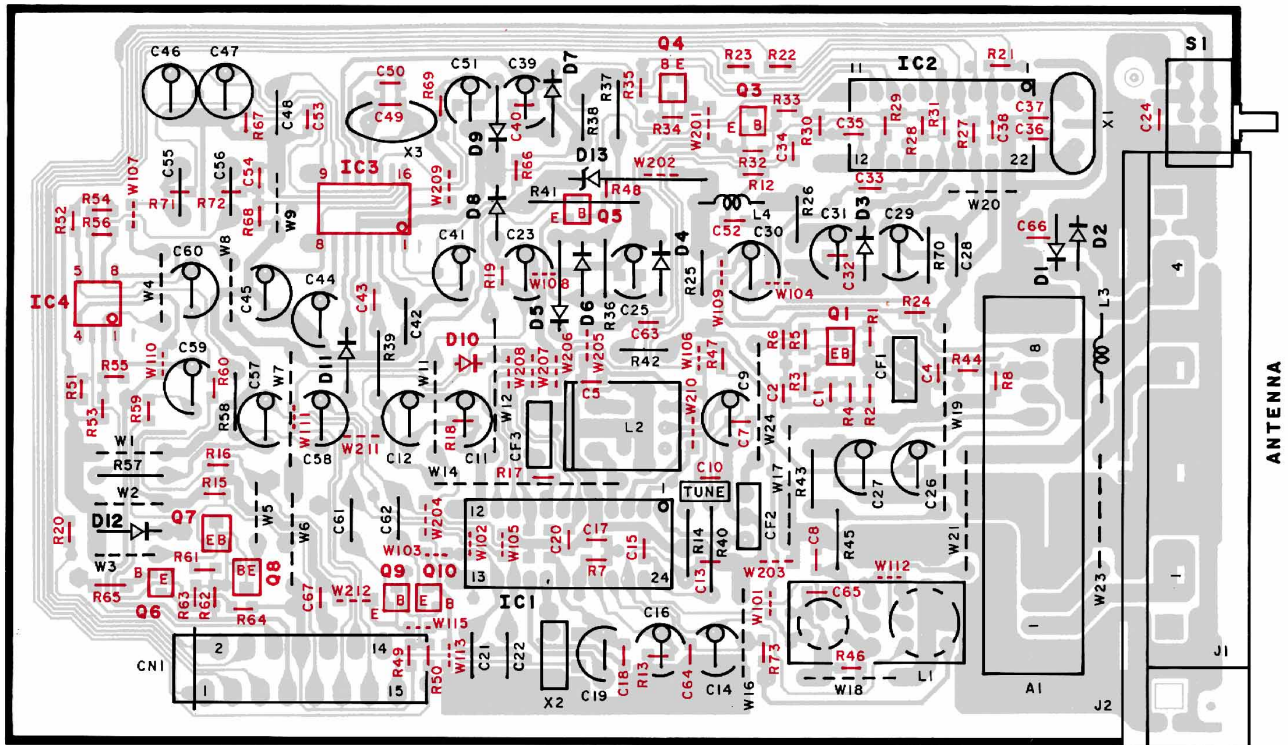


ERROR MESSAGE

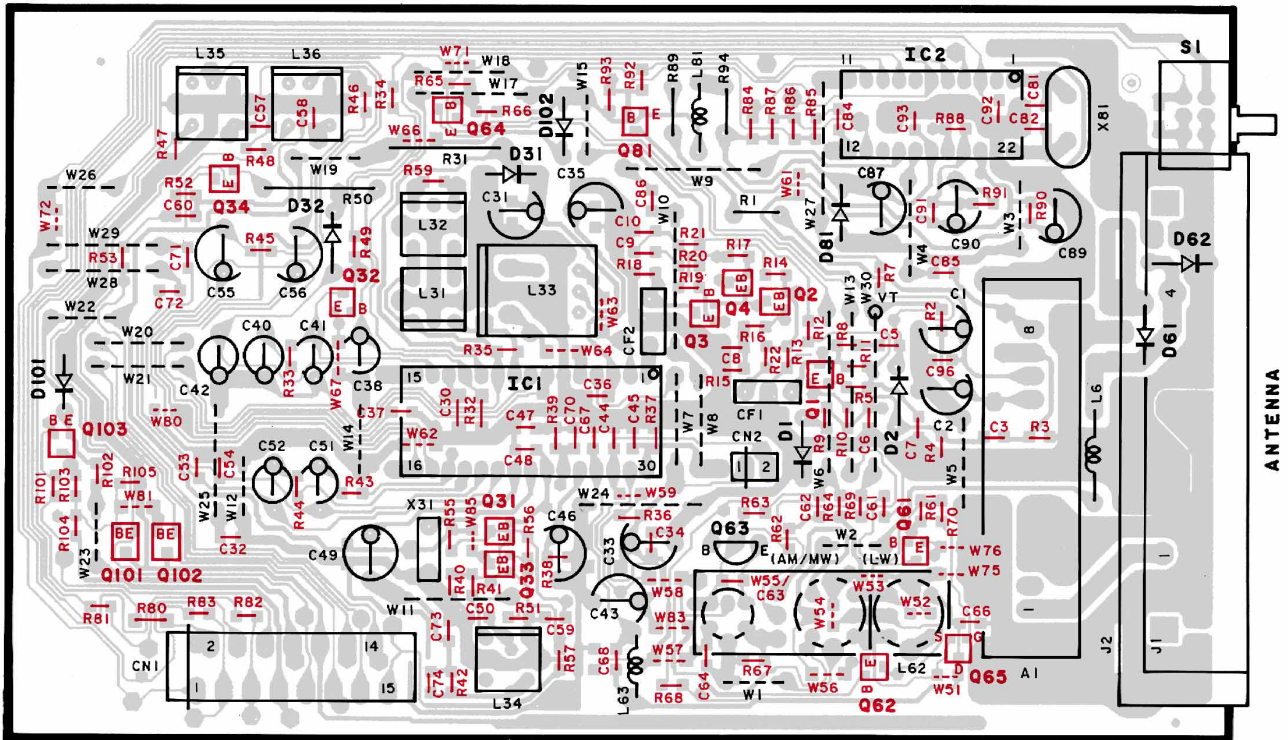
DISPLAY	DESCRIPTION
ERR 1	Main u-com sub clock no output
ERR 2	Main u-com sub clock frequency NG

PC BOARD (Component side view)

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



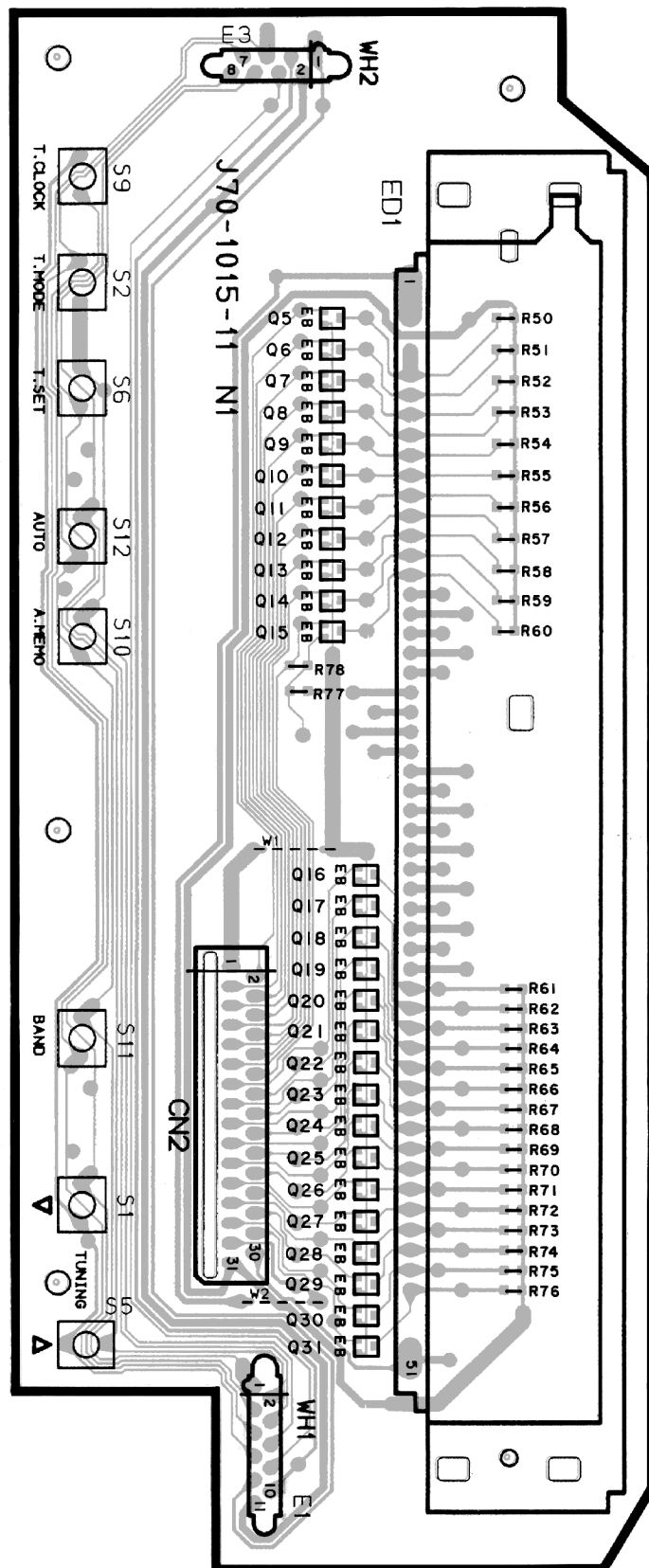
(X05-468X-XX) J70-0960-21



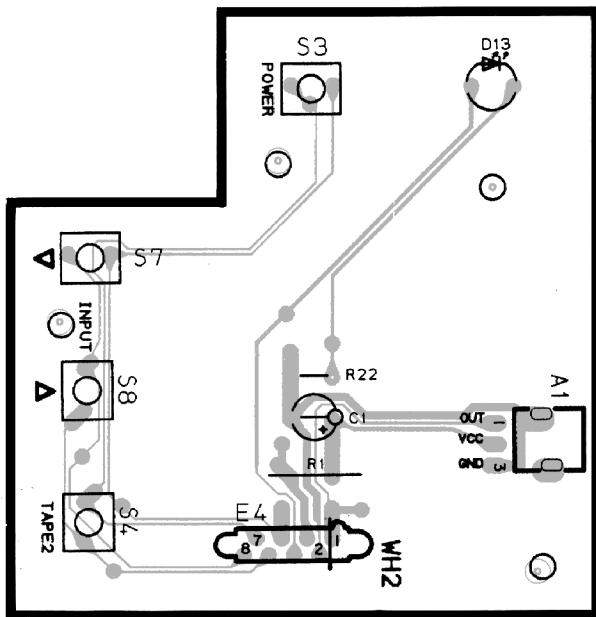
Refer to the schematic diagram for the value of resistors and capacitors.

PC BOARD (Component side view)

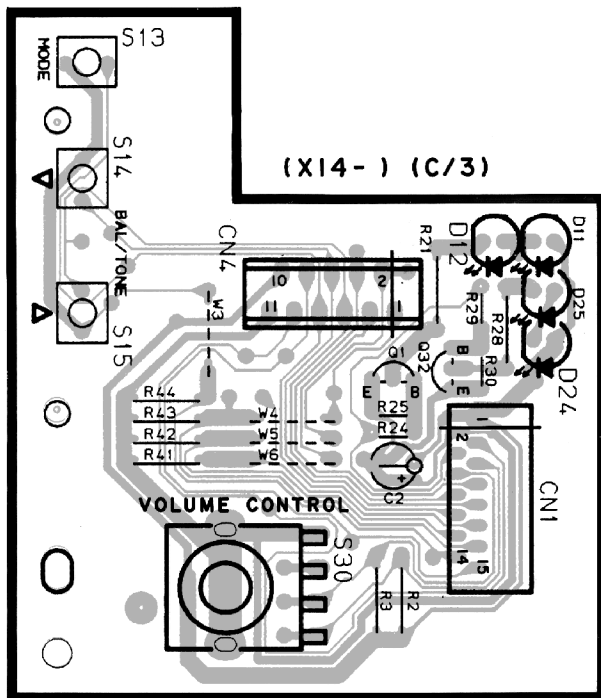
(X14-4360-10) (A/3)



(X14-) (B/3)



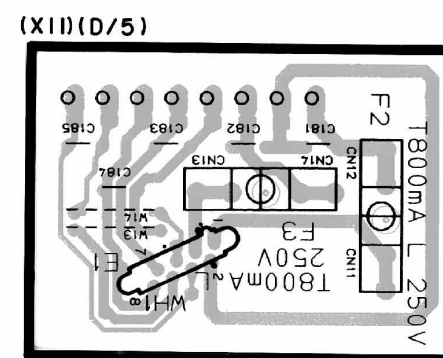
(X14-) (C/3)



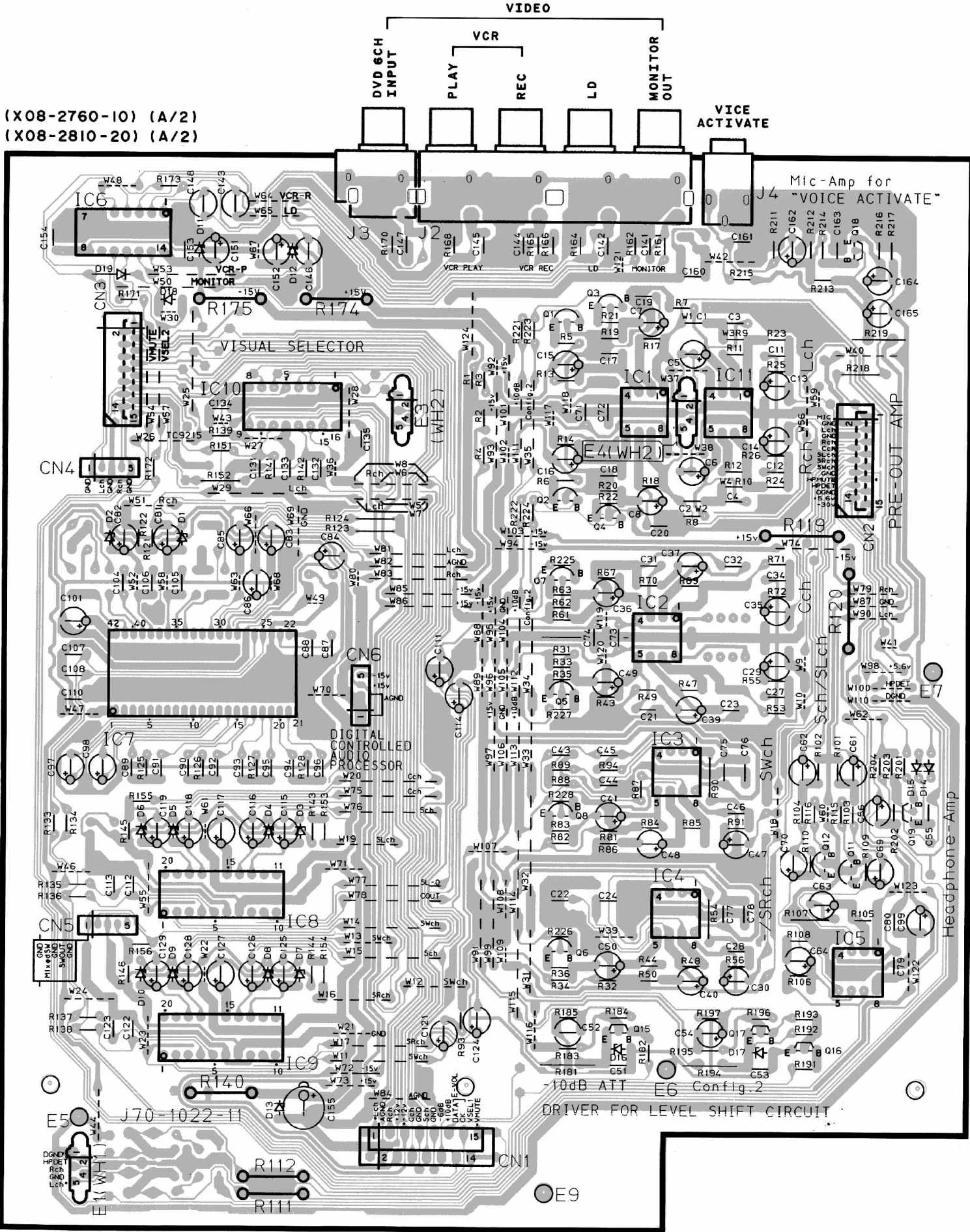
Segment	Color
1	Black
2	White
3	Black
4	White
5	Black
6	White
7	Black



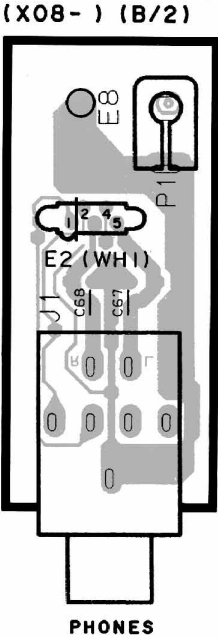
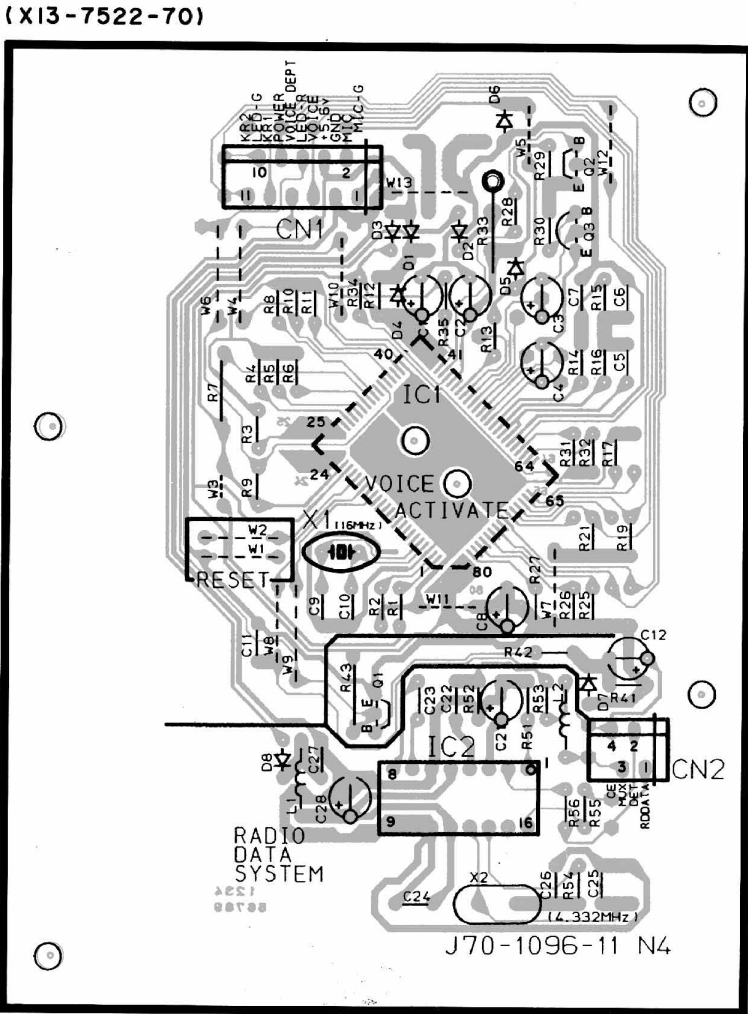
Refer to the schematic diagram for the value of resistors and capacitors.



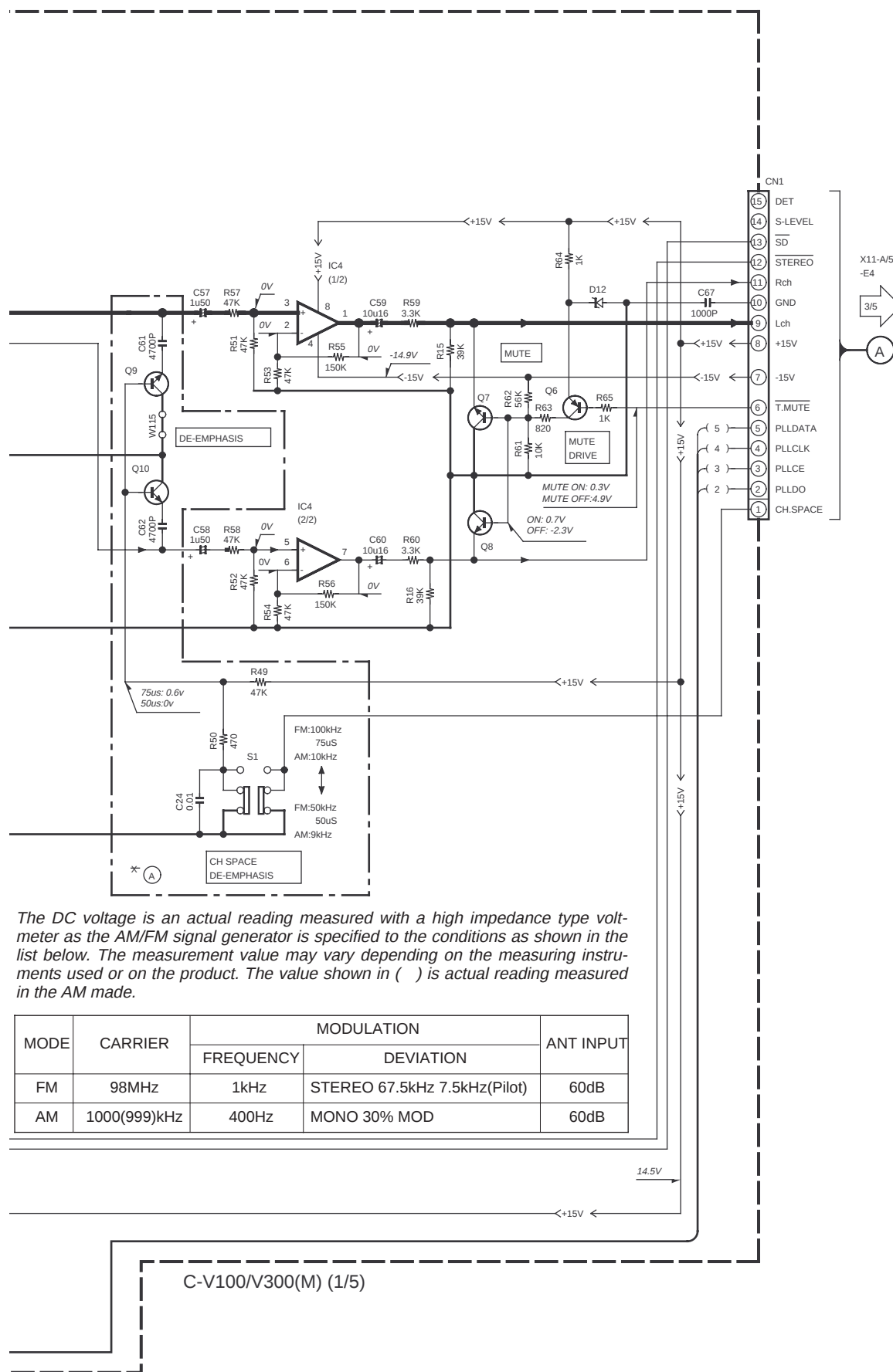
PC BOARD(Component side view)



Refer to the schematic diagram for the value of resistors and capacitors.



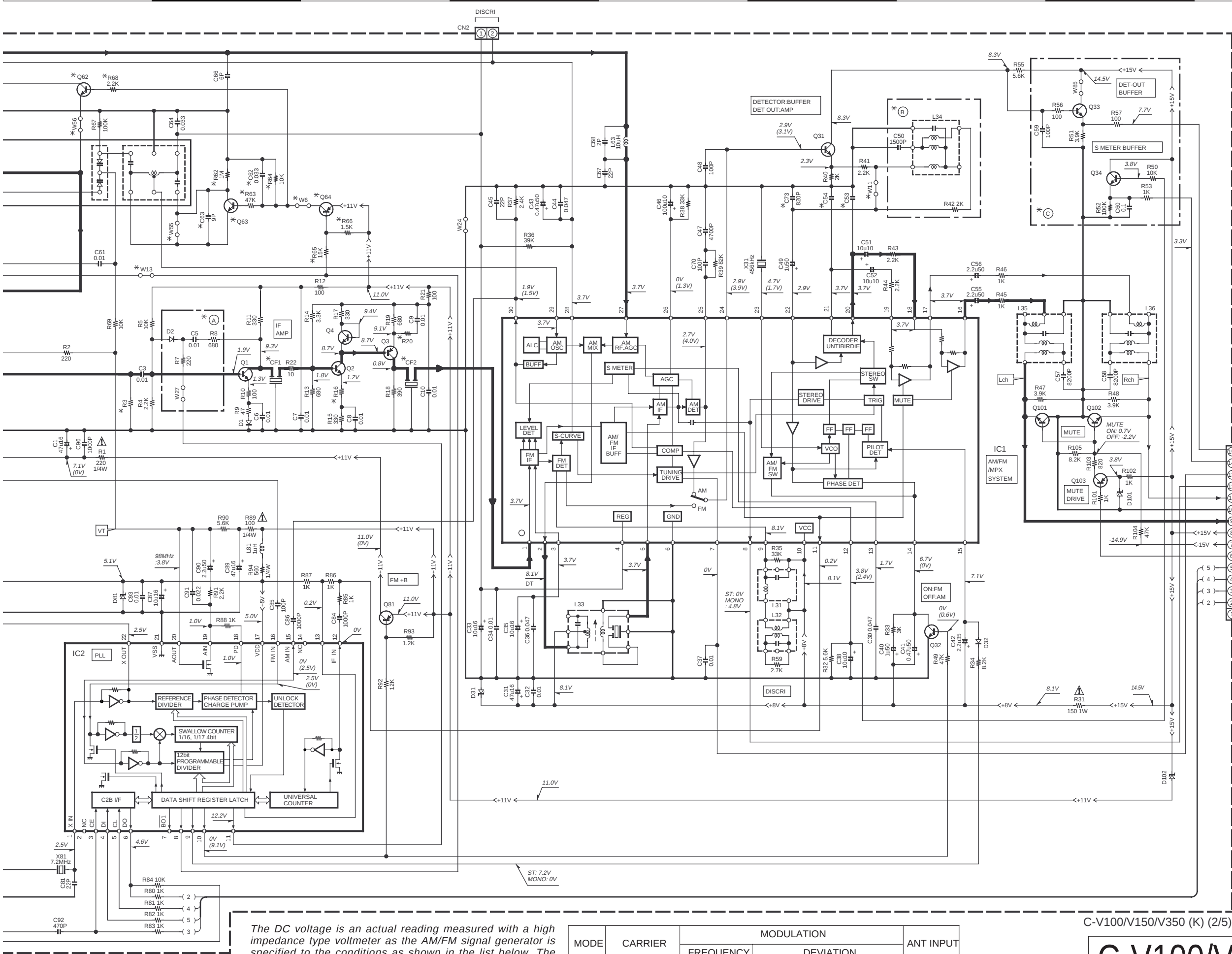
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, 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.



C-V100/V150/V300/V350

Y05-3370-10

KENWOOD



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.

2SC2003
2SC2878
2SC3246

2SD1894

2SA1175
2SC2785

DTC124ESA
2SA1048
2SC1740
S2SC2458

UN5119
2SA15862
SB1218A2
SC2714
2SC4081

2SC4116
2SD1819A
2SD2114K

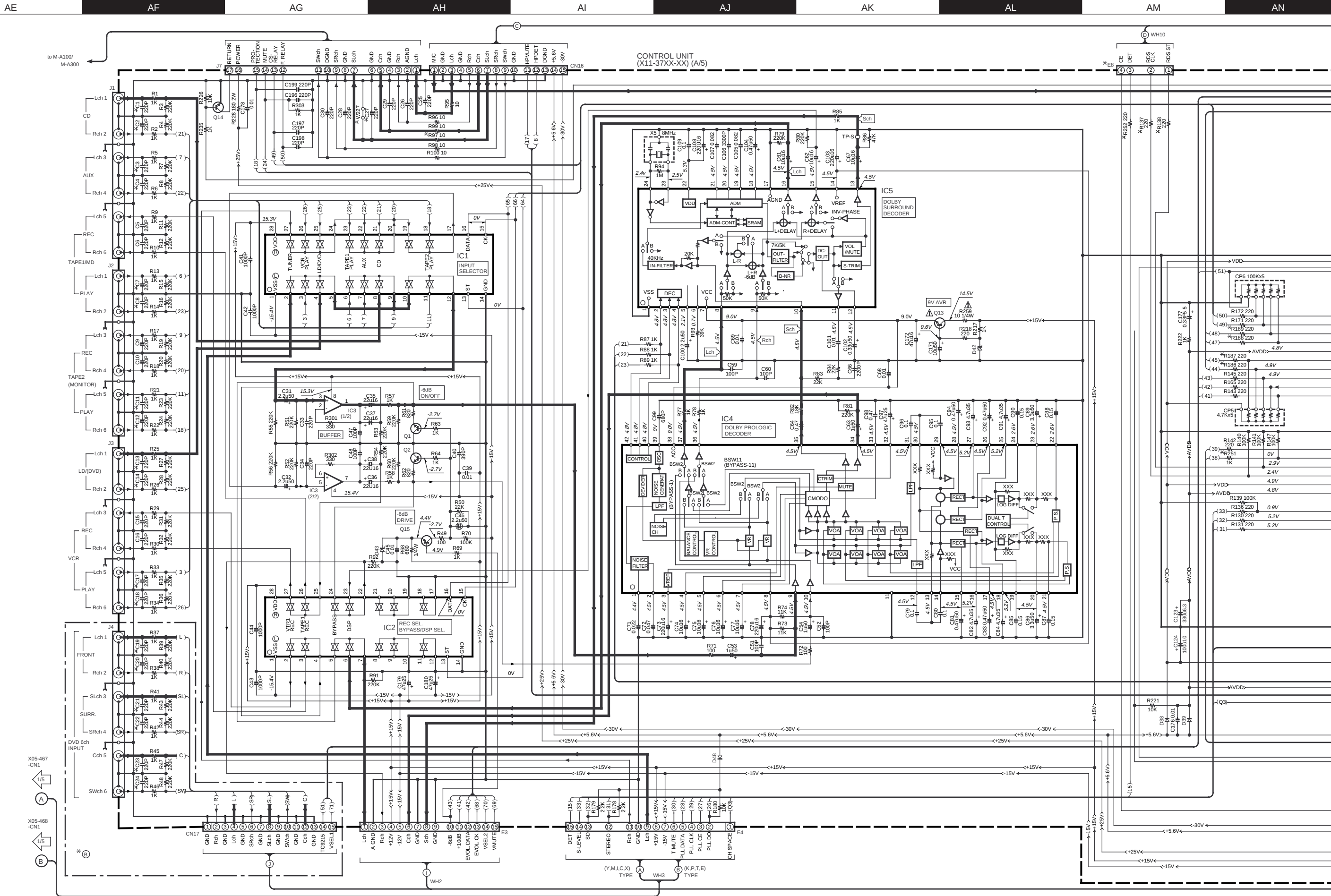
2SB1370
2SD2061

UN4212
2SA1309A
2SC3311A

C-V100/V150/V350 (K) (2/5)

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

Y05-3370-10

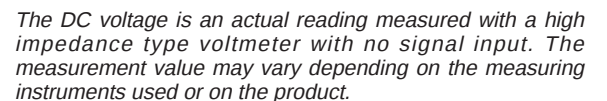
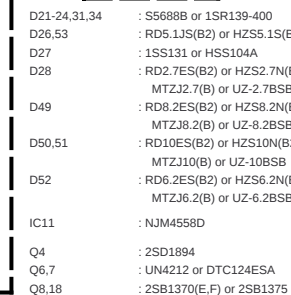


CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, 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.

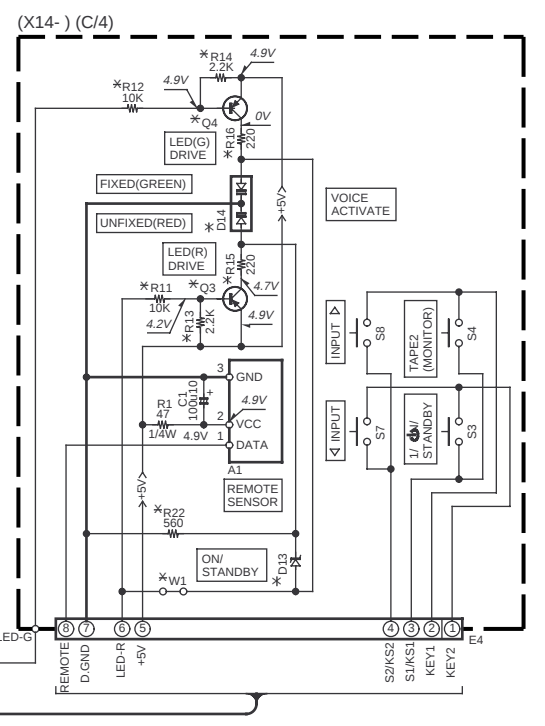
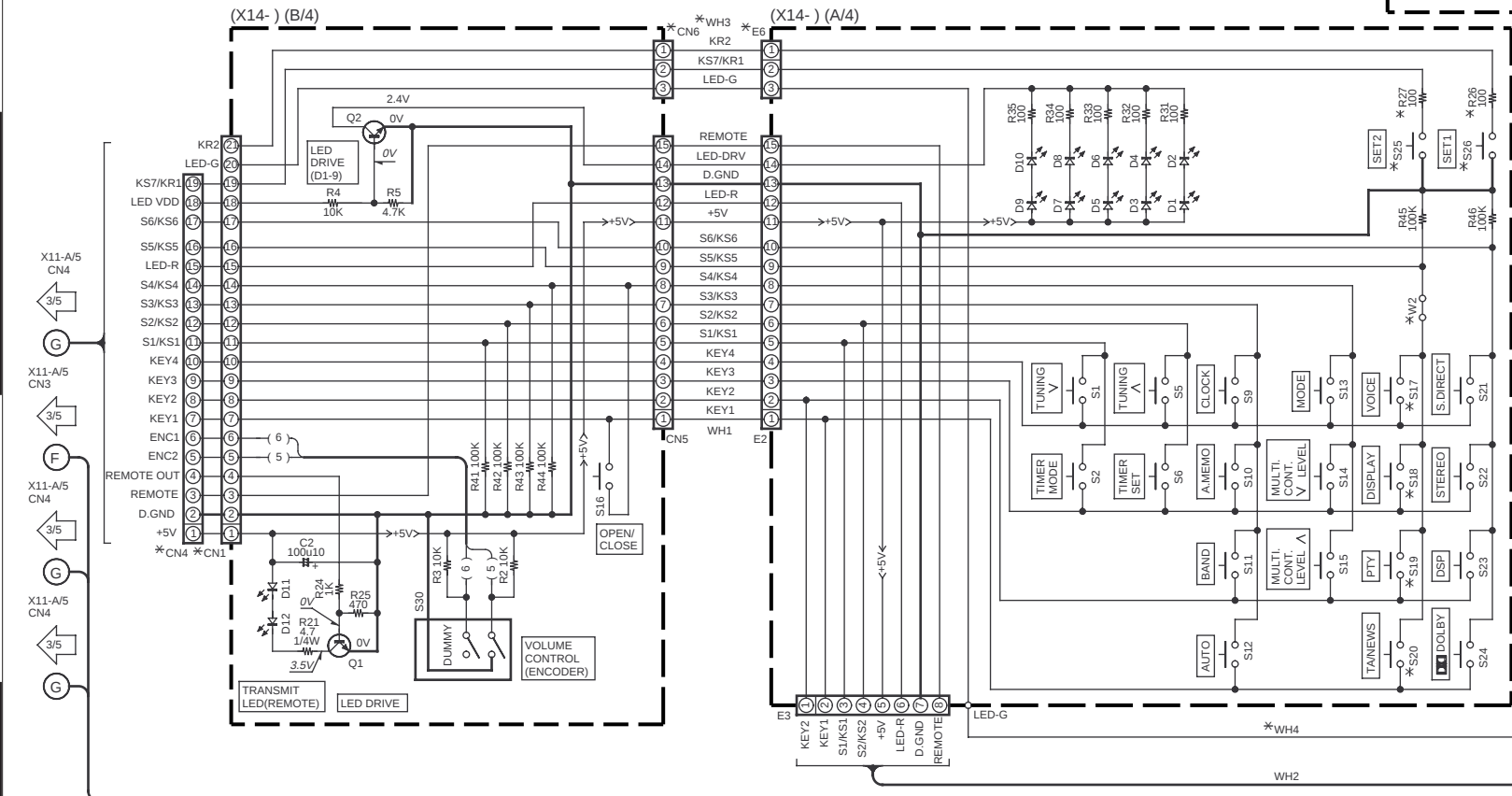
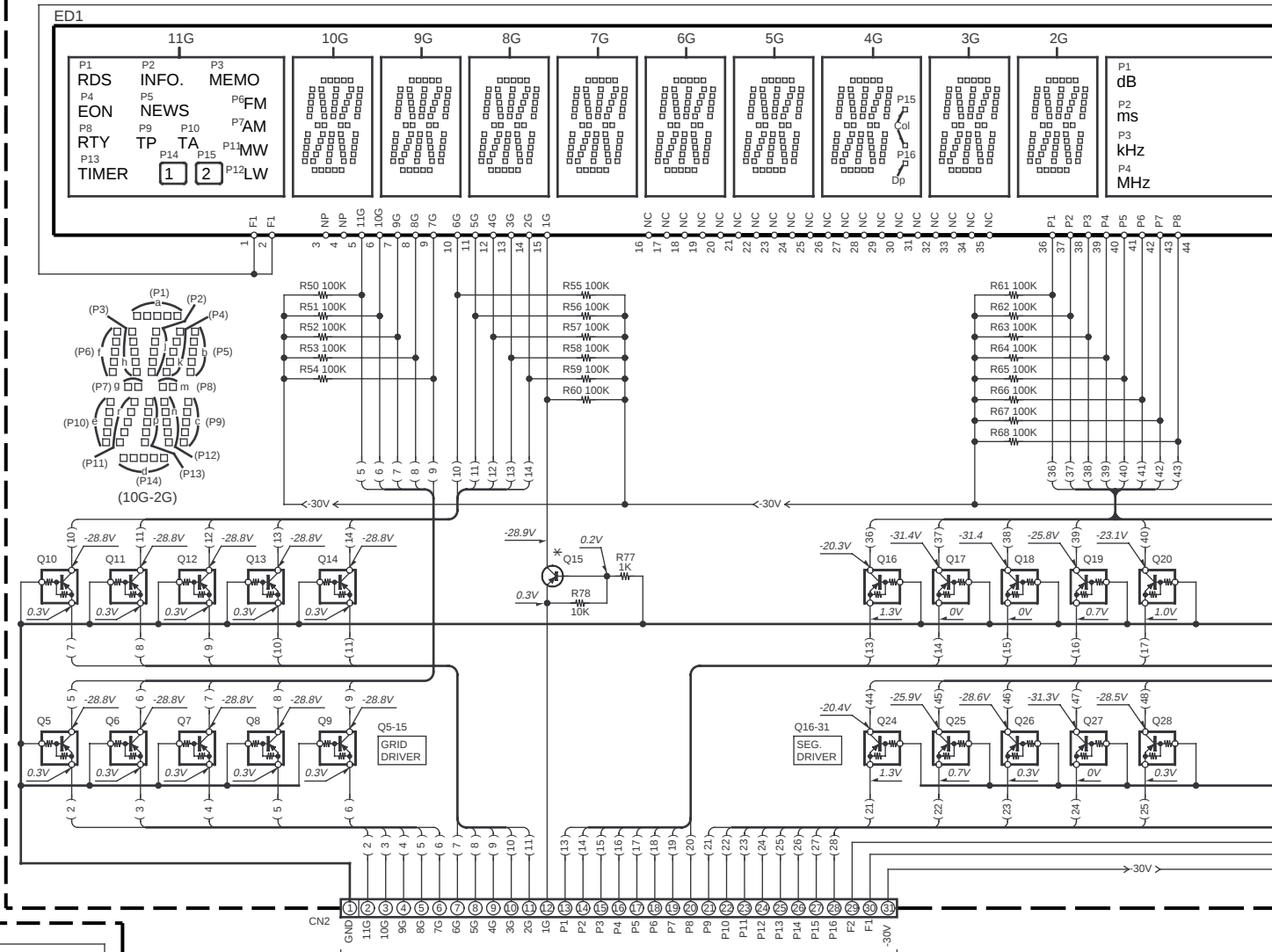
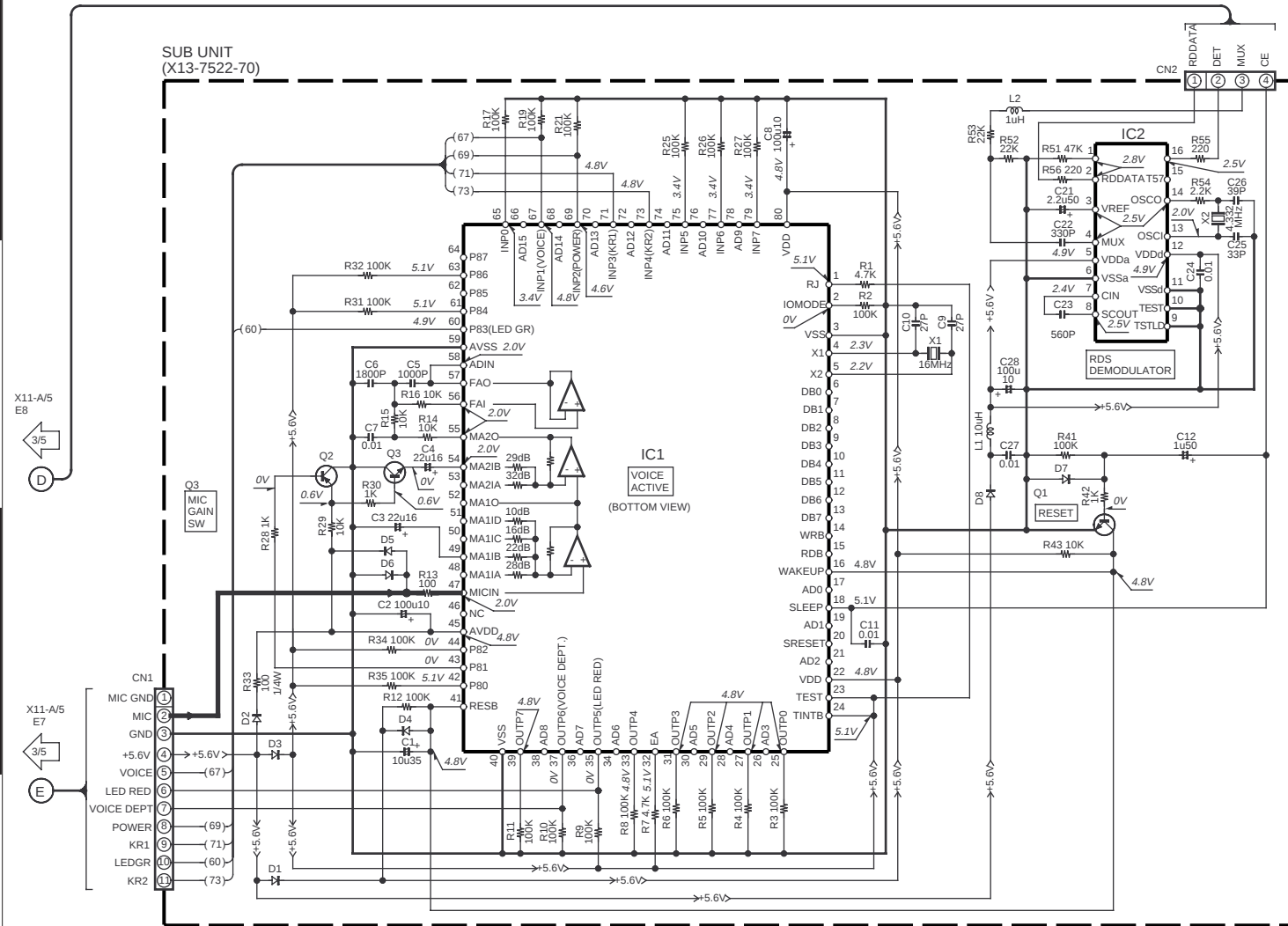
DOLBY and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation. Noise reduction circuit made under license from Dolby Laboratories Licensing Corporation.

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.





DISPLAY UNIT
(X14-437X-XX) (D/5) : C-V150/C-V300/C-V350

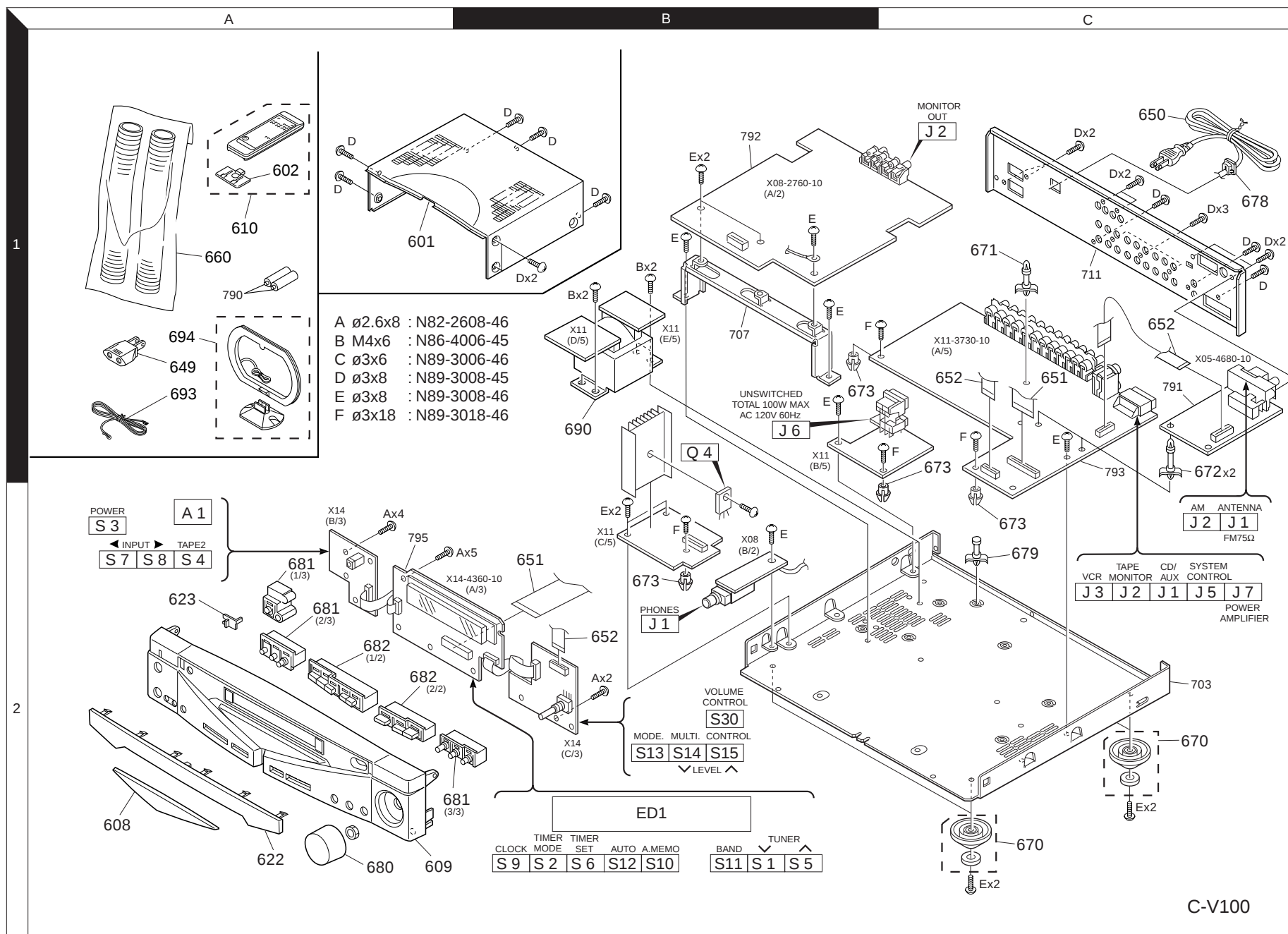


(X13-7522-70)	(X14-4XXX-XX)
IC1 : RF58830-0021	Q1 : 25C3246
IC2 : SAA6579	Q2 : 25C2003(L,K)
	Q3,4 : 25A933AS(Q,R) or 2SA1175(F,E)
Q1 : 25C2458(Y,GR) or 25C3311A(Q,R)	Q5-14,16-31 : UN5119 or DTA113ZUA
Q2 : 25A1048(Y,GR) or 2SA1309A(Q,R)	Q15 : *
Q3 : 25C2878(B)	D1-10 : B30-2508-05
	D11,12 : B30-2519-05
D1-8 : 1SS131 or HSS104A	D13 : B30-2493-05
	D14 : B30-2507-05

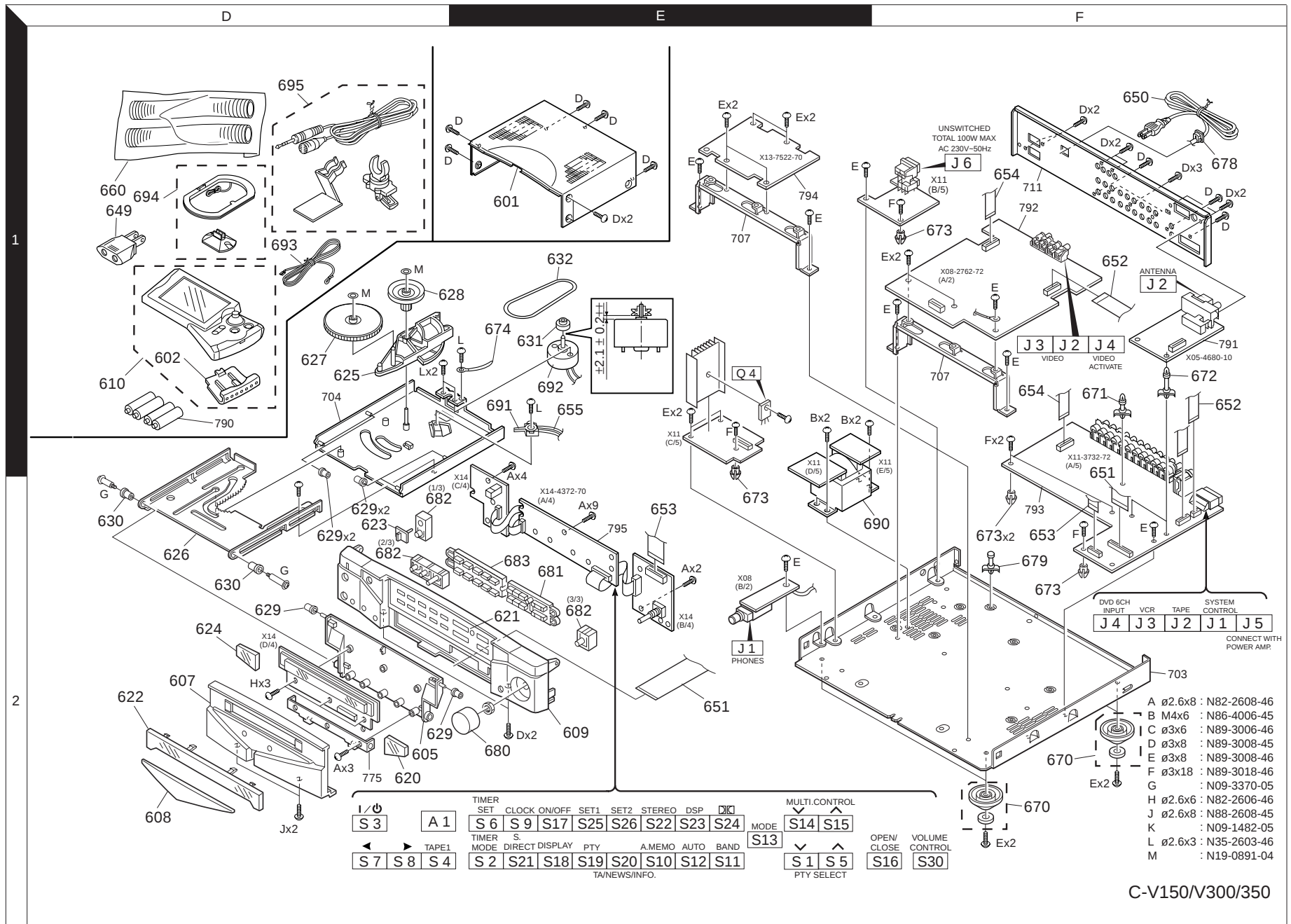
C-V300													
DESTINATION		UNIT No.	R11-16, 26,27	R22	D13	D14	E6	W1	W2	WH3,4	CN1,6	CN4	
COUNTRY	ABB												
GENERAL MARK		X14-4510-20	NO	YES	YES	NO	NO	YES	NO	NO	NO	YES	
I													
MALAYSIA													
CHINA													
AUSTRALIA													
C-V150/V350													
DESTINATION		UNIT No.	R11-16, 26,27	R22	D13	D14	E6	W1	W2	WH3,4	CN1,6	CN4	
COUNTRY	ABB												
EUROPE		X14-4372-70	YES	NO	NO	YES	YES	NO	YES	YES	YES	NO	
U.K.													

C-V100/V150/V300/V350

EXPLODED VIEW(UNIT)



EXPLODED VIEW(UNIT)



C-V150/V300/350

C-V100/V150/V300/V350

PARTS LIST

* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

1

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C-V100						
601	1A	*	A01-3432-01	METALLIC CABINET		
602	1A	*	A09-0378-08	BATTERY COVER	YMICX	
602	1A	*	A09-0379-08	BATTERY COVER	KP	
608	2A	*	A21-1952-03	DRESSING PANEL	KPY	
609	2A	*	A60-1142-01	PANEL		
609	2A	*	A60-1168-01	PANEL	MICX	
610	1A	*	A70-1150-05	REMOTE CONTROL ASSY(RC-S503)	YMICX	
610	1A	*	A70-1159-05	REMOTE CONTROL ASSY(RGC-100)	KP	
622	2A	*	B10-2347-02	FRONT GLASS	KPY	
622	2A	*	B10-2385-02	FRONT GLASS	MICX	
623	2A	*	B12-0311-04	INDICATOR		
-			B46-0096-53	WARRANTY CARD	X	
-			B46-0326-03	WARRANTY CARD	C	
-			B46-0328-03	WARRANTY CARD	KY	
-			B46-0336-03	WARRANTY CARD	P	
-			B58-0513-04	CAUTION CARD (PRESET220-240)	Y	
-			B58-0964-13	CAUTION CARD (UL)	KY	
-			B58-0965-13	CAUTION CARD	X	
-			B58-0966-13	CAUTION CARD	MI	
-			B58-0967-03	CAUTION CARD (PL)	P	
-			B58-1546-03	CAUTION CARD	C	
-			B59-1104-00	SERVICE DIRECTORY	Y	
-		*	B59-1121-03	SUB-INSTRUCTION MANUAL		
-		*	B59-1122-03	SUB-INSTRUCTION MANUAL	P	
-		*	B59-1123-03	SUB-INSTRUCTION MANUAL	C	
-		*	B59-1129-03	SUB-INSTRUCTION MANUAL	MI	
-		*	B59-1130-03	SUB-INSTRUCTION MANUAL	M	
-		*	B59-1131-03	SUB-INSTRUCTION MANUAL		
-		*	B60-3198-00	INSTRUCTION MANUAL(ENG)	P	
-		*	B60-3199-00	INSTRUCTION MANUAL(FRN)	M	
-		*	B60-3200-00	INSTRUCTION MANUAL(SPN)	MI	
-		*	B60-3201-00	INSTRUCTION MANUAL(TWN)	C	
-		*	B60-3202-00	INSTRUCTION MANUAL(CHN)		
Δ 649	1A		E03-0115-05	AC PLUG ADAPTER	MI	
Δ 650	1C		E30-2592-15	AC POWER CORD	MI	
Δ 650	1C		E30-2717-05	AC POWER CORD	X	
Δ 650	1C		E30-2787-05	AC POWER CORD	KPY	
Δ 650	1C		E30-2789-05	AC POWER CORD	Y	
Δ 650	1C		E30-2830-05	AC POWER CORD	C	
651	2B	*	E35-1772-05	FLAT CABLE (31P)		
652	1C	*	E35-1774-05	FLAT CABLE (15P)		
660	1A	*	F07-1602-04	COVER		
-		*	H10-7286-02	POLYSTYRENE FOAMED FIXTURE	KPY	
-		*	H10-7287-02	POLYSTYRENE FOAMED FIXTURE	JPY	
-		*	H10-7371-02	POLYSTYRENE FOAMED FIXTURE	MICX	
-		*	H10-7372-02	POLYSTYRENE FOAMED FIXTURE	MICX	
-		*	H13-0281-04	CARTON BOARD	X	
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
-			H25-1516-04	PROTECTION BAG		
-		*	H30-0100-04	ADHESIVE DOUBLE-COATED TAPE	KPY	
-		*	H30-0602-04	ADHESIVE DOUBLE-COATED TAPE	MICX	
-		*	H50-2334-04	ITEM CARTON CASE	KPY	

L : Scandinavia K : USA P : Canada R : Mexico
Y : PX(Far East, Hawaii) T : Europe E : Europe G : Germany
Y : AAFES(Europe) X : Australia M : Other Areas Q : Russia

Δ indicates safety critical components.

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2

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
-		*	H50-2483-04	ITEM CARTON CASE	MI	
-		*	H50-2484-04	ITEM CARTON CASE	C	
-		*	H50-2519-04	ITEM CARTON CASE	X	
670	2C	*	J02-1188-03	FOOT	KPY	
670	2C	*	J02-1189-03	FOOT	MICX	
671	1C		J19-3331-05	UNIT HOLDER		
672	1C		J19-3642-05	UNIT HOLDER		
673	2B,1C		J19-3732-04	UNIT HOLDER	KPY	
Δ 673	2B,1C		J19-3751-04	UNIT HOLDER	MICX	
678	1C		J42-0083-05	POWER CORD BUSHING		
679	2C		J19-2598-05	UNIT HOLDER		
-			J61-0098-05	WIRE BAND	KPY	
-			J61-0307-05	WIRE BAND	MICX	
680	2A	*	K29-6660-04	KNOB		
681	2A	*	K29-6661-02	KNOB	KPY	
681	2A	*	K29-6779-02	KNOB	MICX	
682	2A	*	K29-6662-02	KNOB	KPY	
682	2A	*	K29-6780-02	KNOB	MICX	
Δ 690	1B	*	L07-2327-05	POWER TRANSFORMER	KP	
Δ 690	1B	*	L07-2328-05	POWER TRANSFORMER	Y	
Δ 690	1B	*	L07-2331-05	POWER TRANSFORMER	CX	
Δ 690	1B	*	L07-2332-05	POWER TRANSFORMER	MI	
693	1A		T90-0809-05	LEAD WIRE ANTENNA	MICX	
693	1A		T90-0810-05	LEAD WIRE ANTENNA	KPY	
694	1A		T90-0820-05	LOOP ANTENNA		
C-V150/V300/V350						
601	1B		A01-3432-01	METALLIC CABINET		
602	1A		A09-0378-08	BATTERY COVER (V150)	ET	
602	1A		A09-0379-08	BATTERY COVER (V300/350)	ETMICX	
605	2A		A46-0303-01	REAR COVER		
607	2A		A29-0861-01	PANEL	ET	
607	2A		A29-0881-01	PANEL	MICX	
608	2A	*	A21-1953-03	DRESSING PANEL (V150)	ET	
608	2A	*	A21-1954-03	DRESSING PANEL	MICX	
608	2A	*	A21-1955-03	DRESSING PANEL (V350)	ET	
609	2B	*	A60-1144-01	PANEL	ET	
609	2B	*	A60-1145-01	PANEL	MICX	
610	1A	*	A70-1136-05	REMOTE CONTROLLER ASSY(V150)	ET	
610	1A	*	A70-1137-05	REMOTE CONTROLLER ASSY(V350)	ET	
610	1A	*	A70-1159-05	REMOTE CONTROLLER ASSY(V300)	MICX	
620	2A	*	B10-2384-04	FRONT GLASS	MICX	
621	2B	*	B03-3802-13	DRESSING PLATE	MICX	
621	2B	*	B03-3803-03	DRESSING PLATE	ET	
622	2A	*	B10-2349-02	FRONT GLASS	ET	
622	2A	*	B10-2382-02	FRONT GLASS	MICX	
623	2A		B12-0311-04	INDICATOR		
624	2A	*	B10-2350-04	FRONT GLASS	ET	
624	2A	*	B10-2383-04	FRONT GLASS	MICX	
625			B10-2351-04	FRONT GLASS	ET	
-			B46-0096-53	WARRANTY CARD	X	
-			B46-0310-03	WARRANTY CARD	ET	
-			B46-0326-03	WARRANTY CARD	C	
-			B58-0945-03	CAUTION CARD	T	
-			B58-0965-13	CAUTION CARD (PL)	T	

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③

Ref. No	Add- ress	New Parts	Parts No.	Description	Desti- nation	Re- marks
-			B58-0966-13	CAUTION CARD (PL)	E	
-			B58-1546-03	CAUTION CARD	C	
-			B59-1121-03	SUB-INSTRUCTION MANUAL		
-			B59-1122-03	SUB-INSTRUCTION MANUAL(ENG)	MICX	
-			B59-1124-03	SUB-INSTRUCTION MANUAL(FRN)	E	
-			B59-1125-03	SUB-INSTRUCTION MANUAL(GRN)	E	
-			B59-1126-03	SUB-INSTRUCTION MANUAL(NTH)	E	
-			B59-1127-03	SUB-INSTRUCTION MANUAL(ITL)	E	
-			B59-1128-03	SUB-INSTRUCTION MANUAL (V150)	E	
-			B59-1129-03	SUB-INSTRUCTION MANUAL(CHN)	C	
-			B59-1130-03	SUB-INSTRUCTION MANUAL(TLN)	MI	
-			B59-1131-03	SUB-INSTRUCTION MANUAL(SPN)	T	
-			B59-1133-03	SUB-INSTRUCTION MANUAL(ENG)		
-		*	B60-3198-00	INSTRUCTION MANUAL(ENG)		
-		*	B60-3200-00	INSTRUCTION MANUAL(SPN)	M	
-		*	B60-3201-00	INSTRUCTION MANUAL(TWN)	MI	
-		*	B60-3202-00	INSTRUCTION MANUAL(CHN)	C	
-		*	B60-3203-00	INSTRUCTION MANUAL(ENG)	T	
-		*	B60-3204-00	INSTRUCTION MANUAL(FRN)	E	
-		*	B60-3205-00	INSTRUCTION MANUAL(NTH)	E	
-		*	B60-3206-00	INSTRUCTION MANUAL(ITL)	E	
-		*	B60-3207-00	INSTRUCTION MANUAL(V150)(SPN)	E	
-		*	B60-3208-00	INSTRUCTION MANUAL(GRN)	E	
625	1A		D10-3715-04	ARM ASSY		
626	2A		D10-3716-01	SLIDER		
627	1A		D13-1807-04	GEAR		
628	1A		D13-1808-03	GEAR		
629	2A		D14-0385-04	ROLLER		
630	2A		D14-0386-04	ROLLER		
631	1B		D15-0407-04	MOTOR PULLEY		
632	1B		D16-0715-03	BELT		
Δ 649	1A		E03-0115-05	AC PLUG ADAPTER	MI	
Δ 650	1C		E30-2592-15	AC POWER CORD	MI	
Δ 650	1C		E30-2717-05	AC POWER CORD	X	
Δ 650	1C		E30-2788-05	AC POWER CORD	E	
Δ 650	1C		E30-2791-05	AC POWER CORD	T	
Δ 650	1C		E30-2830-05	AC POWER CORD	C	
651	2B	*	E35-1773-05	FLAT CABLE		
652	1C		E35-1774-05	FLAT CABLE (15P)		
653	2B,2C	*	E35-1775-05	FLAT CABLE	MICX	
653	2B,2C	*	E35-1861-05	FLAT CABLE	ET	
654	1C	*	E35-1781-05	FLAT CABLE		
655	1B	*	E35-1810-05	WIRING HARNESS		
660	1A		F07-1602-04	COVER		
-			G11-0153-04	SOFT TAPE (80X12X3)		
-			H10-7286-02	POLYSTYRENE FOAMED FIXTURE	E	
-			H10-7287-02	POLYSTYRENE FOAMED FIXTURE	E	
-			H10-7288-02	POLYSTYRENE FOAMED FIXTURE	T	
-			H10-7289-02	POLYSTYRENE FOAMED FIXTURE	T	
-		*	H10-7371-02	POLYSTYRENE FOAMED FIXTURE	MICX	
-		*	H10-7372-02	POLYSTYRENE FOAMED FIXTURE	MICX	
-		*	H13-0281-04	CARTON BOARD	X	

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④

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-			H20-0568-04	PROTECTION COVER	MIC	
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	E	
-			H25-0651-04	PROTECTION BAG (0232)	T	
-			H25-1516-04	PROTECTION BAG		
-			H30-0100-04	ADHESIVE DOUBLE-COATED TAPE	ET	
-		*	H30-0602-04	ADHESIVE DOUBLE-COATED TAPE	MICX	
-		*	H50-2386-04	ITEM CARTON CASE(V350)	E	
-		*	H50-2387-04	ITEM CARTON CASE(V350)	T	
-		*	H50-2439-04	ITEM CARTON CASE(V150)		
-		*	H50-2482-04	ITEM CARTON CASE(V150)	E	
-		*	H50-2486-04	ITEM CARTON CASE	MI	
-		*	H50-2487-04	ITEM CARTON CASE	C	
-		*	H50-2520-04	ITEM CARTON CASE	X	
670	2C		J02-1188-03	FOOT	ET	
670	2C	*	J02-1189-03	FOOT	MICX	
671	1C		J19-3331-05	UNIT HOLDER		
672	1C		J19-3642-05	UNIT HOLDER		
673	2B,1C		J19-3732-04	UNIT HOLDER	ET	
673	2B,1C		J19-3751-04	UNIT HOLDER	MICX	
674	1B		J19-5833-05	LEAD HOLDER		
678	1C		J42-0083-05	POWER CORD BUSHING		
679	2C		J19-2598-05	UNIT HOLDER		
-			J61-0098-05	WIRE BAND	ET	
-			J61-0307-05	WIRE BAND	MICX	
680	2B		K29-6660-04	KNOB		
681	2B		K29-6664-02	KNOB		
681	2B	*	K29-6775-02	KNOB	ET	
682	2A,2B		K29-6665-02	KNOB	MICX	
682	2A,2B	*	K29-6776-02	KNOB		
683	2B		K29-6666-02	KNOB	ET	
683	2B	*	K29-6668-02	KNOB	MICX	
Δ 690	2C	*	L07-2329-05	POWER TRANSFORMER	MI	
Δ 690	2C	*	L07-2330-05	POWER TRANSFORMER	ET	
Δ 690	2C	*	L07-2333-05	POWER TRANSFORMER	CX	
691	1B		S64-0026-05	LEVER SWITCH		
692	1B		T42-0882-05	DC MOTOR		
693	1A		T90-0809-05	LEAD WIRE ANTENNA	MICX	
693	1A		T90-0810-05	LEAD WIRE ANTENNA	ET	
694	1A		T90-0820-05	LOOP ANTENNA		
695	1A		W01-0935-05	MICROPHONE	ET	
TUNER(X05-4670-20)						
C1	.2		CK73FB1H103K	CHIP C	0.010UF	K
C5			CK73FB1H102K	CHIP C	1000PF	K
C8			CK73FB1H103K	CHIP C	0.010UF	K
C9			CE04LW1C100M	ELECTRO	10UF	16WV
C10			CK73FB1H473K	CHIP C	0.047UF	K
C11			CE04LW1H010M	ELECTRO	1.0UF	50WV
C12			CE04LW1H2R2M	ELECTRO	2.2UF	50WV
C13			CK73FB1H102K	CHIP C	1000PF	K
C14			CE04LW1H010M	ELECTRO	1.0UF	50WV
C15			CC73FCH1H220J	CHIP C	22PF	J

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C-V100/V150/V300/V350

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C16			CE04LW1C100M	ELECTRO 10UF 16WV		
C17			CK73FB1H562K	CHIP C 5600PF K		
C18			CK73FB1H102K	CHIP C 1000PF K		
C19			CE04HW1E4R7M	NP-ELEC 4.7UF 25WV		
C20			CK73FB1E104K	CHIP C 0.10UF K		
C21 ,22			CQ93FMG1H113J	MYLAR 0.011UF J		
C23			CE04LW1H010M	ELECTRO 1.0UF 50WV	YMIC	
C24			CK73FB1H103K	CHIP C 0.010UF K		
C25			CE04LW1C100M	ELECTRO 10UF 16WV		
C26			CE04LW1C470M	ELECTRO 47UF 16WV		
C27			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C28			CQ93FMG1H223J	MYLAR 0.022UF J		
C29			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C30			CE04LW1C101M	ELECTRO 100UF 16WV		
C31			CE04LW1A470M	ELECTRO 47UF 10WV		
C32			CK73FB1H103K	CHIP C 0.010UF K		
C33			CC73FSL1H101J	CHIP C 100PF J		
C34 ,35			CK73FB1H102K	CHIP C 1000PF K		
C36			CC73FCH1H270J	CHIP C 27PF J		
C37			CC73FCH1H220J	CHIP C 22PF J		
C38			CK73FB1H471K	CHIP C 470PF K		
C57 ,58			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C59 ,60			CE04LW1C100M	ELECTRO 10UF 16WV	YMIC	
C61 ,62			CQ93FMG1H472J	MYLAR 4700PF J		
C63			CC73FCH1H220J	CHIP C 22PF J		
C64			CC73FCH1H330J	CHIP C 33PF J		
C65			CC73FCH1H040C	CHIP C 4.0PF C		
C67			CK73FB1H102K	CHIP C 1000PF K		
CN1			E40-4609-05	PIN ASSY		
J1			E70-0052-05	LOCK TERMINAL BOARD		
CF1 ,2			L72-0531-05	CERAMIC FILTER		
CF3			L72-0593-05	CERAMIC FILTER		
L1			L39-1348-05	COMBINATION COIL		
L2			L30-0911-05	AM IFT		
L3 ,4			L40-1091-17	SMALL FIXED INDUCTOR(1UH)		
X1			L77-1122-05	CRYSTAL RESONATOR(7.2MHZ)	MICX	
X1			L77-2159-05	CRYSTAL RESONATOR(7.2MHZ)	Y	
X2			L78-0637-05	RESONATOR (456KHZ)		
R1			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R2			RK73FB2A681J	CHIP R 680 J 1/10W		
R3			RK73FB2A100J	CHIP R 10 J 1/10W		
R4 ,5			RK73FB2A331J	CHIP R 330 J 1/10W		
R6			RK73FB2A101J	CHIP R 100 J 1/10W		
R7			RK73FB2A473J	CHIP R 47K J 1/10W		
R8			RK73FB2A331J	CHIP R 330 J 1/10W		
R12			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R13			RK73FB2A473J	CHIP R 47K J 1/10W		
R15 ,16			RK73FB2A393J	CHIP R 39K J 1/10W		
R17			RK73FB2A271J	CHIP R 270 J 1/10W		
R18			RK73FB2A302J	CHIP R 3.0K J 1/10W		
R19			RK73FB2A822J	CHIP R 8.2K J 1/10W		
R20 -23			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R24			RK73FB2A562J	CHIP R 5.6K J 1/10W		

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⚠ R25			RD14NB2E101J	RD 100 J 1/4W		
⚠ R26			RD14NB2E561J	RD 560 J 1/4W		
R27 ,28			RK73FB2A103J	CHIP R 10K J 1/10W		
R29 ,30			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R31			RK73FB2A103J	CHIP R 10K J 1/10W		
R32			RK73FB2A122J	CHIP R 1.2K J 1/10W		
R33			RK73FB2A123J	CHIP R 12K J 1/10W		
⚠ R41			RS14KB3A271J	FL-PROOF RS 270 J 1W		
R42			RD14NB2E271J	RD 270 J 1/4W		
R44			RK73FB2A101J	CHIP R 100 J 1/10W		
R46			RK73FB2A104J	CHIP R 100K J 1/10W		
R47			RK73FB2A153J	CHIP R 15K J 1/10W		
R48			RK73FB2A473J	CHIP R 47K J 1/10W	YMIC	
R49			RK73FB2A473J	CHIP R 47K J 1/10W	YMIC	
R50			RK73FB2A471J	CHIP R 470 J 1/10W		
R51 -54			RK73FB2A473J	CHIP R 47K J 1/10W		
R55 ,56			RK73FB2A154J	CHIP R 150K J 1/10W		
R59 ,60			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R61			RK73FB2A103J	CHIP R 10K J 1/10W		
R62			RK73FB2A563J	CHIP R 56K J 1/10W		
R63			RK73FB2A821J	CHIP R 820 J 1/10W		
R64			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R65			RK73EB2B102J	CHIP R 1.0K J 1/8W		
R73			RK73FB2A681J	CHIP R 680 J 1/10W		
W101-106			R92-0670-05	CHIP R 0 OHM		
W108-113			R92-0670-05	CHIP R 0 OHM		
W115			R92-0670-05	CHIP R 0 OHM		
W201-212			R92-0679-05	CHIP R 0 OHM		
S1			S62-0034-05	SLIDE SWITCH	YMIC	
D1 ,2			HSS104	DIODE		
D1 ,2			1SS133	DIODE		
D3 ,4			HZS5.1N(B2)	ZENER DIODE		
D3 ,4			MTZJ5.1(B)	ZENER DIODE		
D3 ,4			RD5.1ES(B2)	ZENER DIODE		
D3 ,4			UZ-5.1BSB	ZENER DIODE		
D8			HSS104	DIODE		
D8			1SS133	DIODE		
D10			MA111	DIODE		
D12			HZS3.3N(B2)	ZENER DIODE		
D12			MTZJ3.3(B)	ZENER DIODE		
D12			RD3.3ES(B2)	ZENER DIODE		
D12			UZ-3.3BSB	ZENER DIODE		
D13			HZS2.7N(B2)	ZENER DIODE		
D13			MTZJ2.7(B)	ZENER DIODE		
D13			RD2.7ES(B2)	ZENER DIODE		
D13			UZ-2.7BSB	ZENER DIODE		
IC1			LA1832	ANALOGUE IC		
IC2			LC72131	MOS-IC		
IC4			NJM4565M	IC(OP AMP X2)		
Q1			2SC2714(R,O)	TRANSISTOR		
Q3			2SA1576A(R,S)	TRANSISTOR		
Q3			2SA1586(Y,GR)	TRANSISTOR		
Q3			2SB1218A(Q,R)	TRANSISTOR		
Q5			2SC4081(R,S)	TRANSISTOR		

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Q5			2SC4116(Y,GR)	TRANSISTOR		
Q5			2SD1819A(Q,R)	TRANSISTOR		
Q6			2SA1576A(R,S)	TRANSISTOR		
Q6			2SA1586(Y,GR)	TRANSISTOR		
Q6			2SB1218A(Q,R)	TRANSISTOR		
Q7 ,8			2SD1757K	TRANSISTOR		
Q7 ,8			2SD2114K	TRANSISTOR		
Q9 ,10			2SC4081(R,S)	TRANSISTOR	YMIC	
Q9 ,10			2SC4116(Y,GR)	TRANSISTOR		
Q9 ,10			2SD1819A(Q,R)	TRANSISTOR	YMIC	
A1			W02-2582-05	FM FRONT-END ASSY		
TUNER(X05-4680-10)						
C1			CE04LW1C470M	ELECTRO 47UF 16WV		
C2			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C3			CK73FB1H103K	CHIP C 0.010UF K		
C5			CK73FB1H103K	CHIP C 0.010UF K		
C6 -10			CK73FB1H103K	CHIP C 0.010UF K	ET	
C30			CK73EB1E473K	CHIP C 0.047UF K		
C31			CE04LW1C470M	ELECTRO 47UF 16WV		
C32			CK73FB1H103K	CHIP C 0.010UF K		
C33			CE04LW1C100M	ELECTRO 10UF 16WV		
C34			CK73FB1H103K	CHIP C 0.010UF K		
C35			CE04LW1C100M	ELECTRO 10UF 16WV		
C36			CK73FB1E473K	CHIP C 0.047UF K		
C37			CK73FB1H103K	CHIP C 0.010UF K		
C38			C90-3217-05	ELECTRO 10UF 10WV		
C40			C90-3253-05	ELECTRO 1.0UF 50WV		
C41			C90-3251-05	ELECTRO 0.47UF 50WV		
C42			C90-3240-05	ELECTRO 2.2UF 35WV		
C43			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C44			CK73FB1E473K	CHIP C 0.047UF K		
C45			CC73FCH1H220J	CHIP C 22PF J		
C46			CE04LW1A101M	ELECTRO 100UF 10WV		
C47			CK73FB1H472K	CHIP C 4700PF K		
C48			CC73FSL1H101J	CHIP C 100PF J		
C49			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C50			CK73FB1H152K	CHIP C 1500PF K	ET	
C51 ,52			C90-3217-05	ELECTRO 10UF 10WV		
C53 ,54			CK73FB1H223K	CHIP C 0.022UF K	ET	
C53 ,54			CK73FB1H333K	CHIP C 0.033UF K	KP	
C55 ,56			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C57 ,58			CK73FB1H822K	CHIP C 8200PF K		
C59			CC73FSL1H101J	CHIP C 100PF J	ET	
C60			CK73FB1E104K	CHIP C 0.10UF K	ET	
C61			CK73FB1H103K	CHIP C 0.010UF K		
C62			CK73FB1H333K	CHIP C 0.033UF K	T	
C63			CC73FCH1H090D	CHIP C 9.0PF D	T	
C64			CK73FB1H333K	CHIP C 0.033UF K		
C66			CC73FCH1H060D	CHIP C 6.0PF D		
C67			CC73FCH1H220J	CHIP C 22PF J		
C68			CC73FSL1H020C	CHIP C 2.0PF C		
C70			CC73FSL1H101J	CHIP C 100PF J		
C73			CK73FB1H821K	CHIP C 820PF K	KP	
C81			CC73FCH1H220J	CHIP C 22PF J		

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C82			CC73FCH1H270J	CHIP C 27PF J		
C84			CK73FB1H102K	CHIP C 1000PF K		
C85			CC73FSL1H101J	CHIP C 100PF J		
C86			CK73FB1H102K	CHIP C 1000PF K		
C87			CE04LW1C100M	ELECTRO 10UF 16WV		
C89			CE04LW1C470M	ELECTRO 47UF 16WV		
C90			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C91			CK73FB1H223K	CHIP C 0.022UF K		
C92			CC73FSL1H471J	CHIP C 470PF J		
C93			CK73FB1H103K	CHIP C 0.010UF K		
C96			CK73FB1H102K	CHIP C 1000PF K		
CN1			E40-4609-05	PIN ASSY		
CN2			E40-4871-05	PIN ASSY		
J1			E70-0052-05	LOCK TERMINAL BOARD		
CF1 ,2			L72-0536-05	CERAMIC FILTER	ET	
CF1 ,2			L72-0596-05	CERAMIC FILTER	KP	
L31			L30-0943-05	FM IFT		
L32			L30-0944-05	FM IFT		
L33			L30-0911-05	AM IFT		
L34			L79-1240-05	LC FILTER	ET	
L35 ,36			L79-1239-05	LC FILTER		
L61			L40-1091-17	SMALL FIXED INDUCTOR(1UH)		
L62			L39-1351-05	COMBINATION COIL	KPE	
L62			L39-1352-05	COMBINATION COIL	T	
L63			L40-1001-17	SMALL FIXED INDUCTOR(10UH,K)		
L81			L40-1091-17	SMALL FIXED INDUCTOR(1UH)		
X31			L78-0637-05	RESONATOR (456KHZ)		
X81			L77-2159-05	CRYSTAL RESONATOR(7.2MHZ)		
R1			RD14NB2E221J	RD 220 J 1/4W		
R2			RK73FB2A221J	CHIP R 220 J 1/10W		
R3			RK73FB2A182J	CHIP R 1.8K J 1/10W	ET	
R3			RK73FB2A561J	CHIP R 560 J 1/10W	KP	
R4			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R5			RK73FB2A103J	CHIP R 10K J 1/10W		
R7			RK73FB2A221J	CHIP R 220 J 1/10W	ET	
R8			RK73FB2A681J	CHIP R 680 J 1/10W	ET	
R9			RK73FB2A470J	CHIP R 47 J 1/10W		
R10			RK73FB2A101J	CHIP R 100 J 1/10W		
R11			RK73FB2A331J	CHIP R 330 J 1/10W		
R12			RK73FB2A101J	CHIP R 100 J 1/10W		
R13			RK73FB2A681J	CHIP R 680 J 1/10W		
R14			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R15			RK73FB2A331J	CHIP R 330 J 1/10W		
R16			RK73FB2A100J	CHIP R 10 J 1/10W	ET	
R16			RK73FB2A150J	CHIP R 15 J 1/10W	KP	
R17			RK73FB2A331J	CHIP R 330 J 1/10W		
R18			RK73FB2A391J	CHIP R 390 J 1/10W		
R19			RK73FB2A681J	CHIP R 680 J 1/10W		
R20			RK73FB2A100J	CHIP R 10 J 1/10W	ET	
R20			RK73FB2A150J	CHIP R 15 J 1/10W	KP	
R21			RK73FB2A101J	CHIP R 100 J 1/10W		
R22			RK73FB2A100J	CHIP R 10 J 1/10W		
R31			RS14KB3A151JFR	FL-PROOF RS 150 J 1W		

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C-V100/V150/V300/V350

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
R32			RK73FB2B562J	CHIP R 5.6K J 1/8W		
R33			RK73FB2A302J	CHIP R 3.0K J 1/10W		
R34			RK73FB2A822J	CHIP R 8.2K J 1/10W		
R35			RK73FB2A333J	CHIP R 33K J 1/10W		
R36			RK73FB2A393J	CHIP R 39K J 1/10W		
R37			RK73FB2A242J	CHIP R 2.4K J 1/10W		
R38			RK73FB2A333J	CHIP R 33K J 1/10W		
R39			RK73FB2A823J	CHIP R 82K J 1/10W		
R40			RK73FB2A202J	CHIP R 2.0K J 1/10W		
R41			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R42			RK73FB2A202J	CHIP R 2.0K J 1/10W	ET	
R43 ,44			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R45 ,46			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R47 ,48			RK73FB2A392J	CHIP R 3.9K J 1/10W		
R49			RK73FB2A473J	CHIP R 47K J 1/10W		
R51			RK73FB2A392J	CHIP R 3.9K J 1/10W		
R52			RK73FB2A104J	CHIP R 100K J 1/10W		
R53			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R55			RK73FB2A562J	CHIP R 5.6K J 1/10W		
R56 ,57			RK73FB2A101J	CHIP R 100 J 1/10W		
R59			RK73FB2A272J	CHIP R 2.7K J 1/10W		
R61			RK73FB2A223J	CHIP R 22K J 1/10W	T	
R62			RK73FB2A105J	CHIP R 1.0M J 1/10W	T	
R63			RK73FB2A473J	CHIP R 47K J 1/10W	T	
R64			RK73FB2A103J	CHIP R 10K J 1/10W	T	
R65			RK73FB2A153J	CHIP R 15K J 1/10W	T	
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			RK73FB2B102J	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		
Δ 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		
W54 ,55			R92-0670-05	CHIP R 0 OHM	KPE	
W56			R92-0679-05	CHIP R 0 OHM		
W57 ,58			R92-0679-05	CHIP R 0 OHM	T	
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		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
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	ET	
D1			HSS104	DIODE		
D1			1SS133	DIODE		
D2			HSS104	DIODE	ET	
D2			1SS133	DIODE	ET	
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		
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	ET	
Q33 ,34			2SC4081(R,S)	TRANSISTOR	ET	
Q33 ,34			2SC4116(Y,GR)	TRANSISTOR	T	
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	ET	
PRE(X08-2760-10 / X08-2810-20)						
C1 -4	35		CF92FV1H104J	MF-O 0.10UF J		
C5 ,6	35		CE04KW1H220M	ELECTRO 22UF 50WV		
C7 ,8			CE04KW1A101M	ELECTRO 100UF 10WV		
C11 ,12			CK45FB1H102K	CERAMIC 1000PF K		
C13 ,14			CE04KW1H100M	ELECTRO 10UF 50WV		
C15 ,16			CE04KW1H3R3M	ELECTRO 3.3UF 50WV		
C17 -21			CC45FSL1H101J	CERAMIC 100PF J		

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10 : C-V100
15 : C-V100/V150
35 : C-V300/V350
350 : C-V350

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C22	35		CC45FSL1H101J	CERAMIC 100PF J		
C23			CC45FSL1H101J	CERAMIC 100PF J		
C24	35		CC45FSL1H101J	CERAMIC 100PF J		
C27			CK45FB1H102K	CERAMIC 1000PF K		
C28	35		CK45FB1H102K	CERAMIC 1000PF K		
C29	15		CE04KW1H0R1M	ELECTRO 0.1UF 50WV		
C29	35		CE04KW1H100M	ELECTRO 10UF 50WV		
C30	35		CE04KW1H100M	ELECTRO 10UF 50WV		
C31 ,32			CC45FSL1H101J	CERAMIC 100PF J		
C34			CK45FB1H102K	CERAMIC 1000PF K		
C35	15		CE04KW1H0R1M	ELECTRO 0.1UF 50WV		
C35	35		CE04KW1H100M	ELECTRO 10UF 50WV		
C36			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C37			CE04KW1C220M	ELECTRO 22UF 16WV		
C39			CE04KW1C220M	ELECTRO 22UF 16WV		
C40	350		CE04KW1C220M	ELECTRO 22UF 16WV	ET	
C41			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C43			CF92FV1H224J	MF-C 0.22UF J		
C44			CQ93FMG1H333J	MYLAR 0.033UF J		
C45			CF92FV1H564J	MF-C 0.56UF J		
C46			CK45FB1H102K	CERAMIC 1000PF K		
C47			CE04KW1H220M	ELECTRO 22UF 50WV		
C48			CE04KW1C330M	ELECTRO 33UF 16WV		
C49			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C50	35		CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C51			CK45FF1H103Z	CERAMIC 0.010UF Z		
C52			CE04HW1E100M	NP-ELEC 10UF 25WV		
C52			CE04HW1H010M	NP-ELEC 1.0UF 50WV		
C55			CK45FF1H103Z	CERAMIC 0.010UF Z		
C56			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C61 ,62			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C63 ,64			CE04KW1H220M	ELECTRO 22UF 50WV		
C67 ,68			CK45FF1H472Z	CERAMIC 4700PF Z		
C69 ,70			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C71			CQ93FMG1H103J	MYLAR 0.010UF J		
C72			CQ93FMG1H102J	MYLAR 1000PF J		
C73			CQ93FMG1H103J	MYLAR 0.010UF J		
C74			CQ93FMG1H102J	MYLAR 1000PF J		
C75			CQ93FMG1H103J	MYLAR 0.010UF J		
C76			CQ93FMG1H102J	MYLAR 1000PF J		
C77	35		CQ93FMG1H103J	MYLAR 0.010UF J		
C78	35		CQ93FMG1H102J	MYLAR 1000PF J		
C79			CQ93FMG1H103J	MYLAR 0.010UF J		
C80			CQ93FMG1H391K	MYLAR 390PF K		
C81 ,82			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C83 ,84			CE04KW1H100M	ELECTRO 10UF 50WV		
C85 ,86			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C87 ,88			CQ93FMG1H562J	MYLAR 5600PF J		
C89 ,92			CF92FV1H104J	MF-C 0.10UF J		
C93 ,94			CQ93FMG1H223J	MYLAR 0.022UF J		
C95 ,96			CQ93FMG1H183J	MYLAR 0.018UF J		
C97 ,98			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C99			CE04KW1C470M	ELECTRO 47UF 16WV		
C101			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
C104			CF92FV1H104J	MF-C 0.10UF J		

L : Scandinavia K : USA P : Canada R : Mexico 3 : C-V300 35 : C-V300/V350
 Y : PX(Far East, Hawaii) T : Europe E : Europe G : Germany 10 : C-V100 350 : C-V350
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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
C105,106	35		CC45FSL1H100D	CERAMIC 10PF D		
C105,106	15		CC45FSL1H101J	CERAMIC 100PF J		
C107,108			CC45FSL1H101J	CERAMIC 100PF J		
C110			CC45FSL1H101J	CERAMIC 100PF J		
C111	15		CE04KW1H010M	ELECTRO 1.0UF 50WV		
C111	35		CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C112,113			CC45FSL1H101J	CERAMIC 100PF J		
C114	15		CE04KW1H010M	ELECTRO 1.0UF 50WV		
C114	35		CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C115	35		CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C116	35		CE04KW1H0R1M	ELECTRO 0.1UF 50WV		
C116	15		CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C117			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
C118	35		CE04KW1H0R1M	ELECTRO 0.1UF 50WV		
C118	15		CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C119	35		CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C121	35		CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
C122,123	35		CC45FSL1H101J	CERAMIC 100PF J		
C124	35		CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C125	35		CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C126	35		CE04KW1H0R1M	ELECTRO 0.1UF 50WV		
C127	35		CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
C128,129	35		CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C131,132	35		CC45FSL1H100D	CERAMIC 10PF D		
C133	35		CK45FB1H102K	CERAMIC 1000PF K		
C134,135	35		CK45FF1H103Z	CERAMIC 0.010UF Z		
C141,142			CC45FSL1H470J	CERAMIC 47PF J		
C143			CE04HW1E100M	NP-ELEC 10UF 25WV		
C144,145			CC45FSL1H470J	CERAMIC 47PF J		
C146			CE04HW1E100M	NP-ELEC 10UF 25WV		
C147	35		CC45FSL1H470J	CERAMIC 47PF J		
C148	35		CE04HW1E100M	NP-ELEC 10UF 25WV		
C151,152	15		CE04KW1H100M	ELECTRO 10UF 50WV		
C153,154			CK45FF1H103Z	CERAMIC 0.010UF Z		
C155			CE04KW1C221M	ELECTRO 220UF 16WV		
C160			CC45FSL1H271J	CERAMIC 270PF J	ET	
C161			CK45FB1H471K	CERAMIC 470PF K	ET	
C162			CE04KW1H010M	ELECTRO 1.0UF 50WV	ET	
C163			CK45FB1H102K	CERAMIC 1000PF K	ET	
C164			CE04KW1H010M	ELECTRO 1.0UF 50WV	ET	
C165			CE04KW1A101M	ELECTRO 100UF 10WV	ET	
CN1			E40-4609-05	PIN ASSY		
CN2			E40-4902-05	FLAT CABLE CONNECTOR		
CN3			E40-4902-05	FLAT CABLE CONNECTOR		
J1	35		E11-0280-05	PHONE JACK	KPYET	
J1			E11-0282-05	PHONE JACK	MICX	
J2			E63-0163-05	PHONO JACK		
J3	35		E63-1005-05	PHONO JACK		
J4			E11-0283-05	MINIATURE PHONE JACK(3P)	ET	
W5 ,6	35		E31-0001-00	JUMPER WIRE		
W9	35		E31-0001-00	JUMPER WIRE		
W11	35		E31-0001-00	JUMPER WIRE		
W13 -17	35		E31-0001-00	JUMPER WIRE		
W19 -28	35		E31-0001-00	JUMPER WIRE		

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W31 -36	35		E31-0001-00	JUMPER WIRE		
W39	35		E31-0001-00	JUMPER WIRE		
W43	35		E31-0001-00	JUMPER WIRE		
E1 ,2	15		J19-3290-05	LEAD HOLDER		
E5 -9			J11-0809-05	WIRE CLAMPER		
R7 ,8	35		RD14BB2C223J	RD 22K J 1/6W		
R9 ,10	35		RD14BB2C113J	RD 11K J 1/6W		
R11 ,12	35		RD14BB2C331J	RD 330 J 1/6W		
R31	15		RD14BB2C103J	RD 10K J 1/6W		
R31 ,32	35		RD14BB2C153J	RD 15K J 1/6W		
R34	35		RD14BB2C432J	RD 4.3K J 1/6W		
R36	35		RD14BB2C182J	RD 1.8K J 1/6W		
R44	35		RD14BB2C473J	RD 47K J 1/6W		
R48	35		RD14BB2C473J	RD 47K J 1/6W		
R50	35		RD14BB2C242J	RD 2.4K J 1/6W		
R54	35		RD14BB2C220J	RD 22 J 1/6W		
R56	35		RD14BB2C220J	RD 22 J 1/6W		
R61	15		RD14BB2C103J	RD 10K J 1/6W		
R61	35		RD14BB2C153J	RD 15K J 1/6W		
R86	15		RD14BB2C471J	RD 470 J 1/6W		
R86	35		RD14BB2C821J	RD 820 J 1/6W		
R87 -89	15		RD14BB2C103J	RD 10K J 1/6W		
R87 -89	35		RD14BB2C113J	RD 11K J 1/6W		
R93	35		RD14BB2C102J	RD 1.0K J 1/6W		
R111,112			RS14KB3A470J	FL-PROOF RS 47 J 1W		
R119,120			RS14KB3D101J	FL-PROOF RS 100 J 2W		
R137-139	35		RD14BB2C102J	RD 1.0K J 1/6W		
R140			RS14KB3A121J	FL-PROOF RS 120 J 1W		
R143-145	35		RD14BB2C224J	RD 220K J 1/6W		
R146	35		RD14BB2C563J	RD 56K J 1/6W		
R151-155	35		RD14BB2C562J	RD 5.6K J 1/6W		
R156	35		RD14BB2C333J	RD 33K J 1/6W		
R170	35		RD14BB2C750J	RD 75 J 1/6W		
R173	35		RD14BB2C102J	RD 1.0K J 1/6W		
R174,175			RS14KB3A391J	FL-PROOF RS 390 J 1W		
R181			RD14NB2E152J	RD 1.5K J 1/4W	ET	
R219			RD14NB2E181J	RD 180 J 1/4W		
R226	35		RD14BB2C223J	RD 22K J 1/6W		
D1 ,2			HZS8.2N(B2)	ZENER DIODE		
D1 ,2			MTZJ8.2(B)	ZENER DIODE		
D1 ,2			RD8.2ES(B2)	ZENER DIODE		
D1 ,2			UZ-8.2BSB	ZENER DIODE		
D3	35		HZS8.2N(B2)	ZENER DIODE		
D3	35		MTZJ8.2(B)	ZENER DIODE		
D3	35		RD8.2ES(B2)	ZENER DIODE		
D3			UZ-8.2BSB	ZENER DIODE		
D4 ,5			HZS8.2N(B2)	ZENER DIODE		
D4 ,5			MTZJ8.2(B)	ZENER DIODE		
D4 ,5			RD8.2ES(B2)	ZENER DIODE		
D4 ,5			UZ-8.2BSB	ZENER DIODE		
D6 -10	35		HZS8.2N(B2)	ZENER DIODE		
D6 -10	35		MTZJ8.2(B)	ZENER DIODE		
D6 -10	35		RD8.2ES(B2)	ZENER DIODE		

L : Scandinavia K : USA P : Canada R : Mexico 3 : C-V300 35 : C-V300/V350
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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
D6 -10	35		UZ-8.2BSB	ZENER DIODE		
D11 ,12			HZS5.1N(B2)	ZENER DIODE		
D11 ,12			MTZJ5.1(B)	ZENER DIODE		
D11 ,12			RD5.1ES(B2)	ZENER DIODE		
D11 ,12			UZ-5.1BSB	ZENER DIODE		
D13			HZS10N(B2)	ZENER DIODE		
D13			MTZJ10(B)	ZENER DIODE		
D13			RD10ES(B2)	ZENER DIODE		
D13			UZ-10BSB	ZENER DIODE		
D14 ,15			HSS104A	DIODE		
D14 ,15			1SS131	DIODE		
D16			HZS3.9N(B2)	ZENER DIODE		
D16			MTZJ3.9(B)	ZENER DIODE		
D16			RD3.9ES(B2)	ZENER DIODE		
D16			UZ-3.9BSB	ZENER DIODE		
D18 ,19	35		HSS104A	DIODE		
D18 ,19	35		1SS131	DIODE		
D20 ,21			HSS104A	DIODE	ET	
D20 ,21			1SS131	DIODE	ET	
IC1			NJM4580D-D	IC(OP AMP X2)		
IC2 ,3			NJM4565D-D	IC(OP AMP X2)		
IC4	35		NJM4565D-D	IC(OP AMP X2)		
IC5			NJM4580D-D	IC(OP AMP X2)		
IC6			NJM2279D	IC(VIDEO IC)		
IC7			TDA7466	ANALOGUE IC		
IC8			TDA7309	ANALOGUE IC		
IC9	35		TDA7309	ANALOGUE IC		
IC10	35		TC9215AP	ANALOGUE IC		
IC11	35		NJM4580D-D	IC(OP AMP X2)		
Q1 ,2			2SC2878(B)	TRANSISTOR		
Q3 ,4	35		2SC2878(B)	TRANSISTOR		
Q5			2SC2878(B)	TRANSISTOR		
Q6	35		2SC2878(B)	TRANSISTOR		
Q7 ,8			2SC2878(B)	TRANSISTOR		
Q11 ,12			2SC2878(B)	TRANSISTOR		
Q15			2SA1048(Y,GR)	TRANSISTOR		
Q15			2SA1175(F,E)	TRANSISTOR		
Q15			2SA1309A(Q,R)	TRANSISTOR		
Q15			2SA933AS(Q,R)	TRANSISTOR		
Q16			2SC1740S(Q,R)	TRANSISTOR		
Q16	35		2SC2458(Y,GR)	TRANSISTOR		
Q16			2SC2785(F,E)	TRANSISTOR		
Q16	35		2SC3311A(Q,R)	TRANSISTOR		
Q17	35		2SA1048(Y,GR)	TRANSISTOR		
Q17	35		2SA1175(F,E)	TRANSISTOR		
Q17	35		2SA1309A(Q,R)	TRANSISTOR		
Q17	35		2SA933AS(Q,R)	TRANSISTOR		
Q18			2SC1740S(Q,R)	TRANSISTOR		
Q18			2SC2458(Y,GR)	TRANSISTOR	ET	
Q18			2SC2785(F,E)	TRANSISTOR	ET	
Q18			2SC3311A(Q,R)	TRANSISTOR	ET	
Q19			2SA1048(Y,GR)	TRANSISTOR		
Q19			2SA1175(F,E)	TRANSISTOR		
Q19			2SA1309A(Q,R)	TRANSISTOR		
Q19			2SA933AS(Q,R)	TRANSISTOR		

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CONTROL(X11-3730-10 / X11-3790-20)						
C1 -4	350	3	CC45FSL1H221J	CERAMIC 220PF J	ET	
C5 ,6			CC45FSL1H221J	CERAMIC 220PF J		
C7 ,8			CC45FSL1H221J	CERAMIC 220PF J	ET	
C9 ,10			CC45FSL1H221J	CERAMIC 220PF J		
C11 -14			CC45FSL1H221J	CERAMIC 220PF J	ET	
C15 ,16			CC45FSL1H221J	CERAMIC 220PF J		
C17 ,18			CC45FSL1H221J	CERAMIC 220PF J	ET	
C19 -24			CC45FSL1H221J	CERAMIC 220PF J	ET	
C25 ,26			CC45FSL1H221J	CERAMIC 220PF J		
C27			CC45FSL1H221J	CERAMIC 220PF J	MICXET	
C28 -30	3	3	CC45FSL1H221J	CERAMIC 220PF J		
C31 ,32			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C33 ,34			CC45FSL1H221J	CERAMIC 220PF J		
C35 ,36			C90-3748-05	ELECTRO 22UF 16WV		
C37 ,38			CE04KW1C220M	ELECTRO 22UF 16WV		
C39			CK45FF1H103Z	CERAMIC 0.010UF Z		
C40			CK45FB1H391K	CERAMIC 390PF K		
C41 -44			CQ93FMG1H102J	MYLAR 1000PF J		
C45			CK45FF1H103Z	CERAMIC 0.010UF Z		
C46			CE04HW1H2R2M	NP-ELEC 2.2UF 50WV		
C47 ,48	3	3	CC45FSL1H101J	CERAMIC 100PF J		
C51 ,52			CC45FSL1H101J	CERAMIC 100PF J		
C53 ,54			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C59 ,60			CC45FSL1H101J	CERAMIC 100PF J		
C61 ,62			CE04KW1C100M	ELECTRO 10UF 16WV		
C63			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C64			CF92FV1H474J	MF-C 0.47UF J		
C66			CQ93FMG1H222J	MYLAR 2200PF J		
C67			CE04KW1C100M	ELECTRO 10UF 16WV		
C68 ,69			CK45FF1H103Z	CERAMIC 0.010UF Z		
C71	3	3	CQ93FMG1H223J	MYLAR 0.022UF J		
C72			CQ93FMG1H473J	MYLAR 0.047UF J		
C73			CE04KW1C221M	ELECTRO 220UF 16WV		
C74 -77			CE04KW1C100M	ELECTRO 10UF 16WV		
C78			CE04KW1C221M	ELECTRO 220UF 16WV		
C79 ,80			CQ93FMG1H104J	MYLAR 0.10UF J		
C81			CE04KW1HR47M	ELECTRO 0.47UF 50WV		
C82			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
C83			CE04KW1HR47M	ELECTRO 0.47UF 50WV		
C84			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
C85	3	3	CF92FV1H154J	MF-C 0.15UF J		
C86			CE04KW1H3R3M	ELECTRO 3.3UF 50WV		
C87 ,88			CF92FV1H154J	MF-C 0.15UF J		
C89			CE04KW1H3R3M	ELECTRO 3.3UF 50WV		
C90			CF92FV1H154J	MF-C 0.15UF J		
C91			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
C92			CE04KW1HR47M	ELECTRO 0.47UF 50WV		
C93			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
C94			CE04KW1HR47M	ELECTRO 0.47UF 50WV		
C95 ,96			CQ93FMG1H104J	MYLAR 0.10UF J		
C97	3	3	CE04KW1E470M	ELECTRO 47UF 25WV		
C98			CF92FV1H474J	MF-C 0.47UF J		
C99			CQ93FMG1H681J	MYLAR 680PF J		

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 35 : C-V300/V350 350 : C-V350

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C100	3	3	CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C101			CQ93FMG1H103J	MYLAR 0.010UF J		
C102			CE04KW1HR33M	ELECTRO 0.33UF 50WV		
C103			CE04KW1C221M	ELECTRO 220UF 16WV		
C104			CE04KW1HR47M	ELECTRO 0.47UF 50WV		
C105			CQ93FMG1H823J	MYLAR 0.082UF J		
C106			CQ93FMG1H332J	MYLAR 3300PF J		
C107			CQ93FMG1H823J	MYLAR 0.082UF J		
C108			CE04KW1C221M	ELECTRO 220UF 16WV		
C109			CQ93FMG1H104J	MYLAR 0.10UF J		
C111-114	3	3	CC45FSL1H101J	CERAMIC 100PF J		
C115-117			CK45FB1H102K	CERAMIC 1000PF K		
C118,119			CK45FF1H103Z	CERAMIC 0.010UF Z		
C120,121			CC45FCH1H180J	CERAMIC 18PF J		
C122			CK45FF1H103Z	CERAMIC 0.010UF Z		
C123			CE04KW0J331M	ELECTRO 330UF 6.3WV		
C124			CE04KW1A101M	ELECTRO 100UF 10WV		
C133			CE04KW1E470M	ELECTRO 47UF 25WV		
C136			CQ93FMG1H104J	MYLAR 0.10UF J		
C137,138			CK45FB1H102K	CERAMIC 1000PF K		
C139	3	3	CE04KW1H100M	ELECTRO 10UF 50WV		
C141-144			CK45FF1H103Z	CERAMIC 0.010UF Z		
C145			CE04KW1H102M	ELECTRO 1000UF 50WV		
C146			CK45FB1H391K	CERAMIC 390PF K		
C147			CE04KW1E470M	ELECTRO 47UF 25WV		
C150			CE04KW1E470M	ELECTRO 47UF 25WV		
C151			CE04KW1H102M	ELECTRO 1000UF 50WV		
C152			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
C156			CE04KW1E470M	ELECTRO 47UF 25WV		
C157			CK45FF1H103Z	CERAMIC 0.010UF Z		
C158	3	3	CE04KW1H100M	ELECTRO 10UF 50WV		
C159			CK45FF1H103Z	CERAMIC 0.010UF Z		
C160			CE04KW1E102M	ELECTRO 1000UF 25WV		
C161			CK45FF1H103Z	CERAMIC 0.010UF Z		
C162			CE04KW1C220M	ELECTRO 22UF 16WV		
C163			CK45FB1H102K	CERAMIC 1000PF K		
C164			CE04KW1A470M	ELECTRO 47UF 10WV		
C165			CK45FF1H103Z	CERAMIC 0.010UF Z		
C166			CE04KW1J331M	ELECTRO 330UF 63WV		
C167			CK45FF1H103Z	CERAMIC 0.010UF Z		
C168	3	3	CE04KW1H100M	ELECTRO 10UF 50WV		
C169			CK45FB1H102K	CERAMIC 1000PF K		
C170			CE04KW1H100M	ELECTRO 10UF 50WV		
C171			C90-3747-05	ELECTRO 4.7UF 50WV		
C172			C90-3749-05	ELECTRO 47UF 16WV		
C173,174			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C175			CK45FB1H102K	CERAMIC 1000PF K		
C176			CK45FF1H103Z	CERAMIC 0.010UF Z		
C177			C90-3623-05	BACK UP 0.33F 5.5V		
C178			CK45FF1H103Z	CERAMIC 0.010UF Z		
C179,180	3	3	CE04KW1E470M	ELECTRO 47UF 25WV		
C181-185			CK45FF1H103Z	CERAMIC 0.010UF Z		
C186			C91-1488-05	MF 6800PF 250VAC		
C189,190	3	3	CC45FSL1H221J	CERAMIC 220PF J		

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 35 : C-V300/V350 350 : C-V350

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C-V100/V150/V300/V350

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C191 C192 C192 C193 C194	3		CK45FF1H103Z CE04KW1H100M CE04KW1H100M CK45FF1H103Z CE04HW1H2R2M	CERAMIC 0.010UF Z ELECTRO 10UF 50WV ELECTRO 10UF 50WV CERAMIC 0.010UF Z NP-ELEC 2.2UF 50WV	ET MICX	
C195 C196-199 C200 C201 C202			CE04KW1H010M CC45FSL1H221J CE04KW1E470M CK45FB1H391K CK45FB1H103Z	ELECTRO 1.0UF 50WV CERAMIC 220PF J ELECTRO 47UF 25WV CERAMIC 390PF K CERAMIC 0.010UF Z		
CN1 CN1 CN3 CN4 CN4	10 3	*	E40-4245-05 E40-8126-05 E40-4918-05 E40-4902-05 E40-4906-05	PIN ASSY PIN ASSY FLAT CABLE CONNECTOR FLAT CABLE CONNECTOR FLAT CABLE CONNECTOR	MICX KPYET	
CN4 CN15 CN16 CN17 CN18	35		E40-4908-05 E40-3249-05 E40-4902-05 E40-4902-05 E40-4607-05	FLAT CABLE CONNECTOR PIN ASSY FLAT CABLE CONNECTOR FLAT CABLE CONNECTOR FLAT CABLE CONNECTOR	ET MICXET	
J1 -3 J4 J5 J6 J6	35		E63-0139-15 E63-0111-05 E11-0293-05 E03-0148-05 E03-0149-05	PHONO JACK PHONO JACK MINIATURE PHONE JACK(2P) AC OUTLET AC OUTLET	KPY EMI	
J6 J6 J6 J7 W207	10		E03-0310-05 E03-0325-05 E03-0330-05 E58-0018-05 E31-0001-00	AC OUTLET AC OUTLET AC OUTLET RECTANGULAR RECEPTACLE JUMPER WIRE	T X C	
W228	10		E31-0001-00	JUMPER WIRE		
F1 F2 ,3 F2 ,3 F2 ,3			F05-2525-05 F05-8013-05 F05-8013-05 F50-0067-05	FUSE (SEMKO) (250V T2.5AL) FUSE (SEMKO) (250V T800MAL) FUSE (SEMKO) (250V T800MAL) FUSE (5X20)	ET MICX YTE KP	
CN5 ,6 CN11-14 E10			J13-0075-05 J13-0075-05 J11-0808-05	FUSE CLIP FUSE CLIP WIRE CLAMPER	ET	
X1 X2 X4 X5		*	L78-0284-05 L77-2173-05 L78-0674-05 L78-0290-05	RESONATOR (5MHZ) CRYSTAL RESONATOR(32.768KHZ) RESONATOR RESONATOR (8MHZ)		
CP2 CP3 CP4 CP5 CP6			R90-0860-05 R90-0812-05 R90-0864-05 R90-0892-05 R90-0855-05	MULTI-COMP 4.7K X1 1 MULTI-COMP 10KX10 J 1/6W MULTI-COMP 100KX14 MULTI-COMP 4.7KX5 J MULTI-COMP 100KX5 J		
CP7 R37 ,38 R39 ,40 R41 ,42 R43 ,44	35 35 35 35		R90-0482-05 RD14BB2C102J RD14BB2C224J RD14BB2C102J RD14BB2C224J	MULTI-COMP 100KX4 J 1/6W RD 1.0K J 1/6W RD 220K J 1/6W RD 1.0K J 1/6W RD 220K J 1/6W		
R45 ,46	35		RD14BB2C102J	RD 1.0K J 1/6W		

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R47 ,48 R68 R97 R186-189 R203	35 35 3		RD14BB2C224J RD14NB2E681J RD14BB2C100J RD14BB2C221J RS14KB3D100J	RD 220K J 1/6W RD 680 J 1/4W RD 10 J 1/6W RD 220 J 1/6W FL-PROOF RS 10 J 2W	MICX	
R228 R232 R233,234 R236 R237	3		RS14KB3D181J R92-1769-05 RD14BB2E511J RS14KB3D471J RS14KB3D331J	FL-PROOF RS 180 J 2W CARBON 3.3M J 1/2W RD 510 J 1/4W FL-PROOF RS 470 J 2W FL-PROOF RS 330 J 2W	KP MICX	
R239 R240 R241,242 R251 R255	3		RS14KB3D331J RS14KB3D471J RD14NB2E1R0J RD14KB3D102J RS14KB3D1R2J	FL-PROOF RS 330 J 2W FL-PROOF RS 470 J 2W RD 1 J 1/4W RD 1.0K J 1/6W FL-PROOF RS 1.2 J 2W	MICX ET	
R255 R256 R257 R258 R259	3		RS14KB3D1R2J RD14NB2E4R7J RS14KB3A1R0J RS14KB3A470J RD14NB2E100J	FL-PROOF RS 1.2 J 2W RD 4.7 J 1/4W FL-PROOF RS 1 J 1W FL-PROOF RS 47 J 1W RD 10 J 1/4W	MICX	
R265 R268	3 3		RD14BB2C103J RD14BB2C101J	RD 10K J 1/6W RD 100 J 1/6W	MICX MICX	
S1			S62-0001-05	SLIDE SWITCH	YMI	
D1 -6 D1 -6 D11 D11 D13			HSS104A 1SS131 HSS104A 1SS131 HSS104A	DIODE DIODE DIODE DIODE DIODE	YMIC YMIC ET	
D13 D14 D14 D15 D15			1SS131 HSS104A 1SS131 HSS104A 1SS131	DIODE DIODE DIODE DIODE DIODE	ET TX TX YEMICX YEMICX	
D16 D16 D21 -24 D21 -24 D26	35 35		HSS104A 1SS131 S5688B 1SR139-400 HZS5.1S(B2)	DIODE DIODE DIODE DIODE ZENER DIODE	ETMICX ETMICX	
D26 D27 D27 D27 D28 D28			RD5.1JS(B2) HSS104A 1SS131 HZS2.7N(B2) MTZJ2.7(B)	ZENER DIODE DIODE DIODE ZENER DIODE ZENER DIODE		
D28 D28 D29 ,30 D29 ,30 D31			RD2.7ES(B2) UZ-2.7BSB HSS104A 1SS131 S5688B	ZENER DIODE ZENER DIODE DIODE DIODE DIODE		
D31 D32 D32 D33 D33			1SR139-400 HSS104A 1SS131 HZS5.6N(B2) MTZJ5.6(B)	DIODE DIODE DIODE ZENER DIODE ZENER DIODE		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
Δ D33			RD5.6ES(B2)	ZENER DIODE		
Δ D33			UZ-5.6BSB	ZENER DIODE		
D34			S5688B	DIODE		
D34			1SR139-400	DIODE		
D35			HZS16N(B2)	ZENER DIODE		
D35			MTZJ16(B)	ZENER DIODE		
D35			RD16ES(B2)	ZENER DIODE		
D35			UZ-16BSB	ZENER DIODE		
D36			HZS18N(B2)	ZENER DIODE		
D36			MTZJ18(B)	ZENER DIODE		
D36			RD18ES(B2)	ZENER DIODE		
D36			UZ-18BSB	ZENER DIODE		
D37 -39			HSS104A	DIODE		
D37 -39			1SS131	DIODE		
D41			HZS6.2N(B2)	ZENER DIODE		
D41			MTZJ6.2(B)	ZENER DIODE		
D41			RD6.2ES(B2)	ZENER DIODE		
D41			UZ-6.2BSB	ZENER DIODE		
D42			HZS10N(B)	ZENER DIODE		
D42			MTZJ10(B)	ZENER DIODE		
D42			RD10ES(B)	ZENER DIODE		
D42			UZ-10BSB	ZENER DIODE		
D43			HZS3.9N(B2)	ZENER DIODE		
D43			MTZJ3.9(B)	ZENER DIODE		
D43			RD3.9ES(B2)	ZENER DIODE		
D43			UZ-3.9BSB	ZENER DIODE		
D44 -46			HSS104A	DIODE		
D44 -46			1SS131	DIODE		
D47			S5688B	DIODE		
D47			1SR139-400	DIODE		
D48			HSS104A	DIODE		
D48			1SS131	DIODE		
D49			HZS8.2N(B2)	ZENER DIODE		
D49			MTZJ8.2(B)	ZENER DIODE		
D49			RD8.2ES(B2)	ZENER DIODE		
D49			UZ-8.2BSB	ZENER DIODE		
D50 ,51			HZS10N(B2)	ZENER DIODE		
D50 ,51			MTZJ10(B)	ZENER DIODE		
D50 ,51			RD10ES(B2)	ZENER DIODE		
D50 ,51			UZ-10BSB	ZENER DIODE		
D52			HZS6.2N(B2)	ZENER DIODE		
D52			MTZJ6.2(B)	ZENER DIODE		
D52			RD6.2ES(B2)	ZENER DIODE		
D52			UZ-6.2BSB	ZENER DIODE		
D53			HZS5.1S(B2)	ZENER DIODE		
D53			RD5.1JS(B2)	ZENER DIODE		
D54 -60			HSS104A	DIODE		
D54 -60			1SS131	DIODE		
D61	3		HZS8.2S(B2)	ZENER DIODE	ET MICX	
D61	3		HZS8.2S(B2)	ZENER DIODE	ET MICX	
D61	3		RD8.2JS(B2)	ZENER DIODE	ET MICX	
D61	3		RD8.2JS(B2)	ZENER DIODE	ET MICX	
IC1			NJU7312AL	ANALOGUE IC		
IC2			NJU7311AL	ANALOGUE IC		
IC3			NJM4565D-D	IC(OP AMP X2)		

L : Scandinavia K : USA P : Canada R : Mexico 3 : C-V300 35 : C-V300/V350
 Y : PX(Far East, Hawaii) T : Europe E : Europe G : Germany 10 : C-V100 350 : C-V350
 Y : AAFES(Europe) X : Australia M : Other Areas Q : Russia 15 : C-V100/V150

Δ indicates safety critical components.

* New Parts

Parts without **Parts No.** are not supplied.Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.Teile ohne **Parts No.** werden nicht geliefert.

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
IC4			LA2786	ANALOGUE IC		
IC5			LV1016	DI BI-POLAR IC		
IC6		*	UPD780205GF031	MI-COM IC	KPY MICX ET	
IC6		*	UPD780205GF031	MI-COM IC		
IC6		*	UPD780206GF019	MI-COM IC		
IC7		*	UPD17215GT-737	MI-COM IC		
IC9			S-806D-Z	ANALOGUE IC		
IC10	3		TA8409S	MOS-IC	ET MICX	
IC10			TA8409S	MOS-IC		
IC11			NJM4558D	ANALOGUE IC		
Q1 ,2			2SC2878(B)	TRANSISTOR		
Q3			2SA1048(Y,GR)	TRANSISTOR	YMIC	
Q3			2SA1175(F,E)	TRANSISTOR	YMIC	
Q3			2SA1309A(Q,R)	TRANSISTOR	YMIC	
Q3			2SA933AS(Q,R)	TRANSISTOR	YMIC	
Δ Q4			2SD1894	TRANSISTOR		
Q6 ,7			DTC124ESA	DIGITAL TRANSISTOR	YMIC	
Q6 ,7			UN4212	DIGITAL TRANSISTOR	YMIC	
Δ Q8			2SB1370(E,F)	TRANSISTOR		
Δ Q8			2SB1375	TRANSISTOR		
Δ Q10			2SD2061	TRANSISTOR	ET MICX	
Δ Q10	3		2SD2061	TRANSISTOR		
Δ Q11			2SB1370(E,F)	TRANSISTOR		
Δ Q11			2SB1375	TRANSISTOR		
Q12			2SC1740S(Q,R)	TRANSISTOR		
Q12			2SC2458(Y,GR)	TRANSISTOR		
Q12			2SC2785(F,E)	TRANSISTOR		
Q12			2SC3311A(Q,R)	TRANSISTOR		
Δ Q13			2SD2061	TRANSISTOR		
Q14			2SC2003(L,K)	TRANSISTOR		
Q15			2SA1048(Y,GR)	TRANSISTOR		
Q15			2SA1175(F,E)	TRANSISTOR		
Q15			2SA1309A(Q,R)	TRANSISTOR		
Q15			2SA933AS(Q,R)	TRANSISTOR		
Δ Q16			2SD2061	TRANSISTOR		
Q17			2SC1740S(Q,R)	TRANSISTOR		
Q17			2SC2458(Y,GR)	TRANSISTOR		
Q17			2SC2785(F,E)	TRANSISTOR		
Q17			2SC3311A(Q,R)	TRANSISTOR		
Q18			2SB1370(E,F)	TRANSISTOR		
Q18			2SB1375	TRANSISTOR		
Δ Q19			2SD2061	TRANSISTOR	ET MICX	
Δ Q19	3		2SD2061	TRANSISTOR		
SUB(X13-7522-70)						
C1			CE04KW1V100M	ELECTRO	10UF	35WV
C2			CE04KW1A101M	ELECTRO	100UF	10WV
C3 ,4			CE04KW1C220M	ELECTRO	22UF	16WV
C5			CQ93FMG1H102J	MYLAR	1000PF	J
C6			CQ93FMG1H182J	MYLAR	1800PF	J
C7			CQ93FMG1H103J	MYLAR	0.010UF	J
C8			CE04KW1A101M	ELECTRO	100UF	10WV
C9 ,10			CC45FCH1H270J	CERAMIC	27PF	J
C11			CK45FF1H103Z	CERAMIC	0.010UF	Z
C12			CE04KW1H010M	ELECTRO	1.0UF	50WV

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 Y : AAFES(Europe) X : Australia M : Other Areas Q : Russia 15 : C-V100/V150

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C-V100/V150/V300/V350

PARTS LIST

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C21 C22 C23 C24 C25			CE04KW1H2R2M CC45FSL1H331J CK45FB1H561K CK45FF1H103Z CC45FCH1H330J	ELECTRO 2.2UF 50WV CERAMIC 330PF J CERAMIC 560PF K CERAMIC 0.010UF Z CERAMIC 33PF J		
C26 C27 C28			CC45FCH1H390J CK45FF1H103Z CE04KW1A101M	CERAMIC 39PF J CERAMIC 0.010UF Z ELECTRO 100UF 10WV		
CN1 CN2			E40-4808-05 E40-4294-05	PIN ASSY FLAT CABLE CONNECTOR		
L1 L2 X1 X2			L40-1001-17 L40-1091-17 L78-0626-05 L77-2200-05	SMALL FIXED INDUCTOR(10UH,K) SMALL FIXED INDUCTOR RESONATOR (16M) CRYSTAL RESONATOR(4.332MHZ)		
R33			RD14NB2E101J	RD 100 J 1/4W		
D1 -8 D1 -8 IC1 IC2 Q1		*	HSS104A 1SS131 RF5S830-0021 SAA6579 2SC2458(Y,GR)	DIODE DIODE MOS-IC ANALOGUE IC TRANSISTOR		
Q1 Q2 Q2 Q3			2SC3311A(Q,R) 2SA1048(Y,GR) 2SA1309A(Q,R) 2SC2878(B)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
SUB(X13-7562-70 / X13-7570-20)						
C1 ,2 C3 -6 C7 C8 C9 ,10			CE04KW1H100M CC45FSL1H101J CQ93FMG1H103J CQ93FMG1H102J CC45FSL1H101J	ELECTRO 10UF 50WV CERAMIC 100PF J MYLAR 0.010UF J MYLAR 1000PF J CERAMIC 100PF J		
C11 C12 C13 C14 C15			CE04KW1H100M CC45FSL1H101J CK45FB1H102K CQ93FMG1H103J CQ93FMG1H102J	ELECTRO 10UF 50WV CERAMIC 100PF J CERAMIC 1000PF K MYLAR 0.010UF J MYLAR 1000PF J		
CN1 -3 IC1 ,2			E40-8180-05 NJM4565D-D	PIN ASSY IC(OP AMP X2)		
DISPLAY(X14-4360-10 / X14-4500-20)						
C1 ,2 CN1 CN2 CN4 - R1 R50 -76 R77 R78 S1 -15 S30			CE04KW1A101M E40-4940-05 E40-8086-05 E40-4808-05 J19-5793-03 RD14NB2E470J RK73FB2A104J RK73FB2A102J RK73FB2A103J S70-0031-05 T99-0559-05	ELECTRO 100UF 10WV FLAT CABLE CONNECTOR FLAT CABLE CONNECTOR PIN ASSY HOLDER RD 47 J 1/4W CHIP R 100K J 1/10W CHIP R 1.0K J 1/10W CHIP R 10K J 1/10W TACT SWITCH ROTARY ENCODER		

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Y : AAFES(Europe)

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Q : Russia

3 : C-V300
10 : C-V100
15 : C-V100/V150

35 : C-V300/V350
350 : C-V350

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
ED1 Q1 Q5 -14 Q5 -14 Q15		*	20U64100SA 2SC3246 DTA113ZUA UN5119 2SA1576A(R,S)	INDICATOR TUBE TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR	KPY	
Q15 Q15 Q16 -31 Q16 -31			2SA1586(Y,GR) 2SB1218A(Q,R) DTA113ZUA UN5119	TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR	MICX	
A1		*	W02-2598-05	OPTIC RECEIVING MODULE		
DISPLAY(X14-4372-70 / X14-4510-20)						
D1 -10 D11 ,12 D13 D14		*	B30-2508-05 B30-2519-05 B30-2493-05 B30-2507-05	LED(AMBER,D=3,P=2) LED(INFRARED,D=5,) LED(RED) LED(RED/GRN,D=5)		
C1 ,2			CE04KW1A101M	ELECTRO 100UF 10WV		
CN1 CN2 CN4 CN5 CN6			E40-4946-05 E40-4956-05 E40-4944-05 E40-4609-05 E40-4293-05	FLAT CABLE CONNECTOR FLAT CABLE CONNECTOR FLAT CABLE CONNECTOR PIN ASSY FLAT CABLE CONNECTOR		
W1 W2			E31-0001-00 E31-0001-00	JUMPER WIRE JUMPER WIRE		
- E6		*	J19-5793-03 J19-3288-05	HOLDER LEAD HOLDER		
R1 R11 ,12 R13 ,14 R15 ,16 R22			RD14NB2E470J RD14BB2C103J RD14BB2C222J RD14BB2C221J RD14BB2C561J	RD 47 J 1/4W RD 10K J 1/6W RD 2.2K J 1/6W RD 220 J 1/6W RD 560 J 1/6W		
R26 ,27 R50 -76 R77 R78			RD14BB2C101J RK73FB2A104J RK73FB2A102J RK73FB2A103J	RD 100 J 1/6W CHIP R 100K J 1/10W CHIP R 1.0K J 1/10W CHIP R 10K J 1/10W		
S1 -16 S17 -20 S21 -24 S25 ,26			S70-0031-05 S70-0031-05 S70-0031-05 S70-0031-05	TACT SWITCH TACT SWITCH TACT SWITCH TACT SWITCH		
S30			T99-0559-05	ROTARY ENCODER		
ED1 Q1 Q2 Q3 ,4 Q3 ,4		*	20U64100SA 2SC3246 2SC2003(L,K) 2SA1175(F,E) 2SA933AS(Q,R)	INDICATOR TUBE TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q5 -14 Q5 -14 Q15 Q15 Q15			DTA113ZUA UN5119 2SA1576A(R,S) 2SA1586(Y,GR) 2SB1218A(Q,R)	DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q16 -31 Q16 -31 A1		*	DTA113ZUA UN5119 W02-2598-05	DIGITAL TRANSISTOR DIGITAL TRANSISTOR OPTIC RECEIVING MODULE		

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R : Mexico
G : Germany
Q : Russia

3 : C-V300
10 : C-V100
15 : C-V100/V150

35 : C-V300/V350
350 : C-V350

⚠ indicates safety critical components.

SPECIFICATIONS

For C-V350

Audio section

Total harmonic distortion (1 kHz, 1V)0.01 %
Signal to noise ratio (IHF'66)
CD93 dB
Input sensitivity / impedance
CD 200 mV / 47k Ω
Tone controls
BASS ± 8 dB (at 100 Hz)
TREBLE ± 8 dB (at 10 kHz)
Output level / impedance
TAPE REC 200 mV / 1 k Ω

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 μ V (at 75 Ω) / 13.2 dBf
(40 kHz dev., S/N 26 dB)
STEREO 35 μ V (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 response30 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 μ V / (700 μ V / 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 μ V
Signal to noise ratio
(at 30% mod. 1mV input) 45 dB

General

Power consumption 25 W
AC outlet
UN SWITCHED 2 : (Total 100 W max)
Dimensions W : 400 mm
H : 105 mm
D : 382 mm
Weight (net) 5.2 kg

For C-V150

Audio section

Total harmonic distortion (1 kHz, 1V)0.01 %
Signal to noise ratio (IHF'66)
CD93 dB
Input sensitivity / impedance
CD 200 mV / 47k Ω
Tone controls
BASS ± 8 dB (at 100 Hz)
TREBLE ± 8 dB (at 10 kHz)
Output level / impedance
TAPE REC 200 mV / 1 k Ω

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 μ V (at 75 Ω) / 13.2 dBf
(40 kHz dev., S/N 26 dB)
STEREO 35 μ V (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 response30 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 μ V / (700 μ V / 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 μ V
Signal to noise ratio
(at 30% mod. 1mV input) 45 dB

General

Power consumption 25 W
AC outlet
UN SWITCHED 2 : (Total 100 W max)
Dimensions W : 400 mm
H : 105 mm
D : 382 mm
Weight (net) 5.2 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).

SPECIFICATIONS

For C-V300

Audio section

Total harmonic distortion (1 kHz, 1V).....0.01 %
Signal to noise ratio (IHF'66)
CD93 dB
Input sensitivity / impedance
CD 200 mV / 47k Ω
Tone controls
BASS ± 8 dB (at 100 Hz)
TREBLE ± 8 dB (at 10 kHz)
Output level / impedance
TAPE REC 200 mV / 1 k Ω

Video section

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

FM Tuner section

Tuning frequency range 87.5 MHz~108 MHz
Usable sensitivity
MONO 1.6 V (at 75 Ω) / 15.2 dBf
(75 kHz dev., SINAD. 30 dB)
50dB quieting sensitivity
STEREO 31.6 μ V (at 75 Ω) / 41.2 dBf
(75 kHz dev.)
Signal to noise ratio (1 kHz, 75 kHz dev.)
MONO 75 dB (65.2 dBf input)
STEREO 68 dB (65.2 dBf input)
Selectivity (IHF $\pm$ 400 kHz)..... 50 dB
Stereo separation (1 kHz) 40 dB
Frequency response30 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) 16 $\pm$ V / (600 μ / m)
Signal to noise ratio
(at 30% mod. 1mV input) 48 dB

General

Power consumption..... 25 W
AC outlet2: (Total 100 W max)
.....(Australia 1 : (100 W max))
DimensionsW : 400 mm
H : 105 mm
D : 382 mm
Weight (net) 5.2 kg

For C-V100

(Except U.S.A. and Canada)

Audio section

Total harmonic distortion (1 kHz, 1V).....0.01 %
Signal to noise ratio (IHF'66)
CD93 dB
Input sensitivity / impedance
CD 200 mV / 47k Ω
Tone controls
BASS ± 8 dB (at 100 Hz)
TREBLE ± 8 dB (at 10 kHz)
Output level / impedance
TAPE REC 200 mV / 1 k Ω

Video section

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

FM Tuner section

Tuning frequency range 87.5 MHz~108 MHz
Usable sensitivity
MONO 1.6 μ V (at 75 Ω) / 15.2 dBf
(75 kHz dev., SINAD. 30 dB)
50dB quieting sensitivity
STEREO 31.6 μ V (at 75 Ω) / 41.2 dBf
(75 kHz dev.)
Signal to noise ratio (1 kHz, 75 kHz dev.)
MONO 75 dB (65.2 dBf input)
STEREO 68 dB (65.2 dBf input)
Selectivity (IHF $\pm$ 400 kHz)..... 50 dB
Stereo separation (1 kHz) 40 dB
Frequency response30 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)..... 16 μ V / (600 μ V / m)
Signal to noise ratio
(at 30% mod. 1mV input) 48 dB

General

Power consumption..... 25 W
AC outlet 2: (Total 100 W max)
.....(Australia 1:(100 W max))
DimensionsW : 400 mm
H : 105 mm
D : 382 mm
Weight (net) 3.9 kg



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SPECIFICATIONS

For C-V100

(U.S.A. and Canada)

Audio section

Total harmonic distortion (1 kHz, 1V) 0.01 %
Signal to noise ratio (IHF' 66)
CD 93 dB
Input sensitivity / impedance
CD 200 mV / 47k Ω
Tone controls
BASS ± 8 dB (at 100 Hz)
TREBLE ± 8 dB (at 10 kHz)
Output level / impedance
TAPE REC 200 mV / 1 k Ω

Video section

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

FM Tuner section

Tuning frequency range 87.5 MHz~108 MHz
Usable sensitivity
MONO 1.6 μ V (at 75 Ω) / 15.2 dBf
(75 kHz dev., SINAD. 30 dB)
50dB quieting sensitivity
STEREO 31.6 μ V (at 75 Ω) / 41.2 dBf
(75 kHz dev.)

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

MONO 75 dB (65.2 dBf input)
STEREO 68 dB (65.2 dBf input)
Selectivity (IHF $\pm$ 400 kHz) 70 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 530 kHz ~ 1,700 kHz
Usable sensitivity
(30% mod., S/N 20 dB) 16 μ V / (600 μ V / m)
Signal to noise ratio
(at 30% mod. 1mV input) 48 dB

General

Power consumption 25 W
AC outlet
UN SWITCHED 2 : (Total 100 W max)
Dimensions W : 400 mm (15-3/4")
H : 105 mm (4-1/8")
D : 382 mm (15-1/16")
Weight (net) 3.9 kg (8.6 lb)



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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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