AUDIO-VIDEO SURROUND RECEIVER

KR-V7080/V8080

SERVICE MANUAL

KENWOOD

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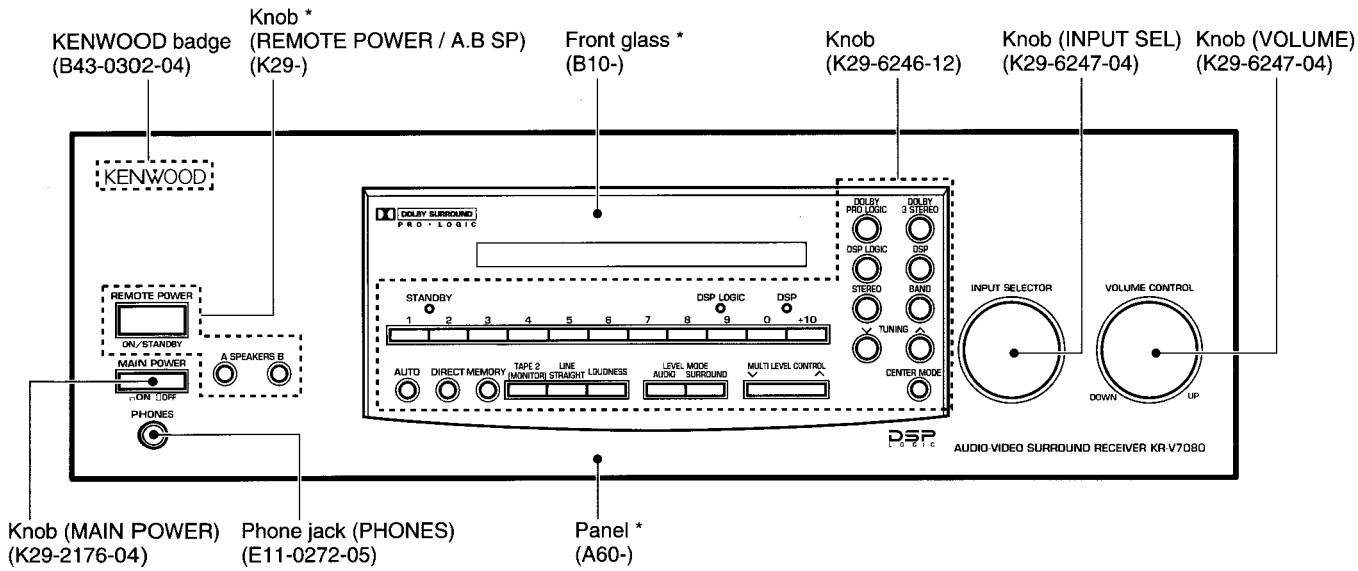

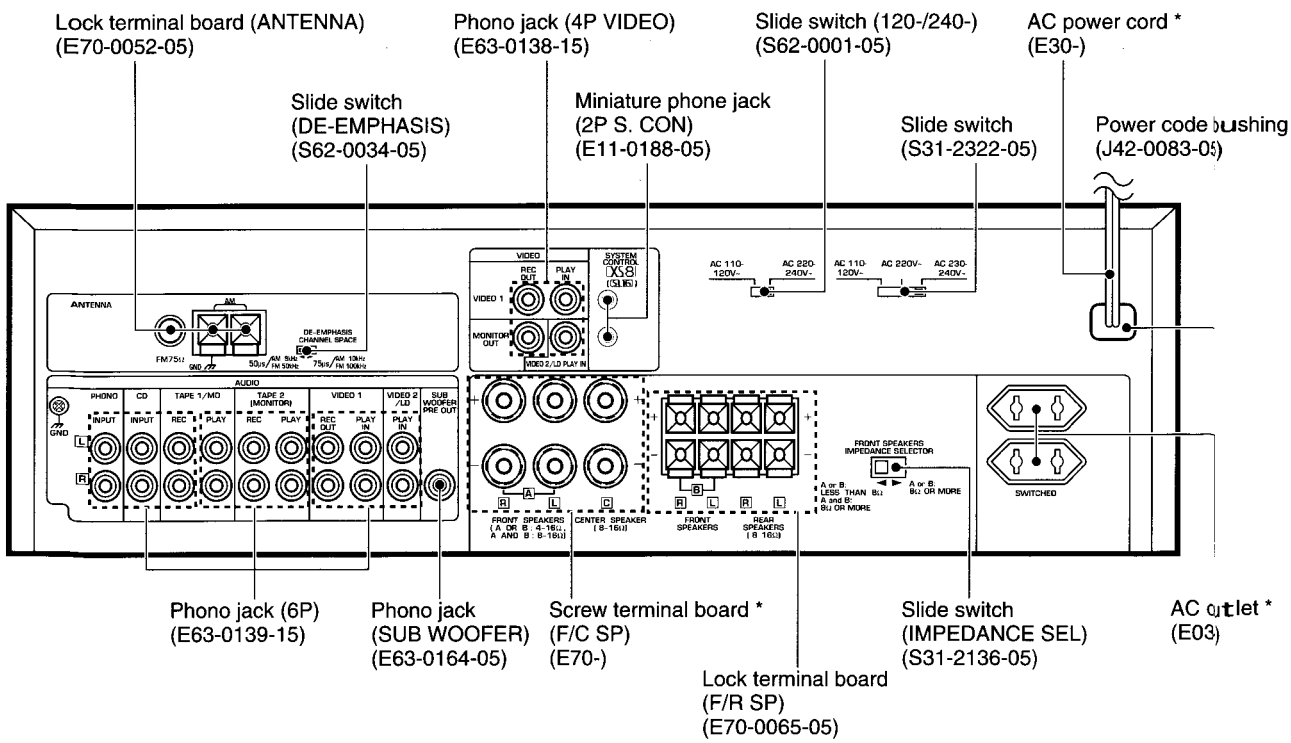

Illustration is KR-V7080.

*** Refer to parts list on page 44.**

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KR-V7080/V8080

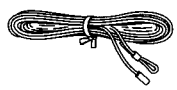
CONTENTS / ACCESSORIES

Contents

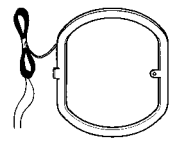
CONTENTS / ACCESSORIES 2
CONTROLS 3
BLOCK DIAGRAM 5
CIRCUIT DESCRIPTION 6
ADJUSTMENT 16
WIRING DIAGRAM 17
PC BOARD 18
SCHEMATIC DIAGRAM 23
EXPLODED VIEW (UNIT) 43
PARTS LIST 44
SPECIFICATIONS 53

Accessories

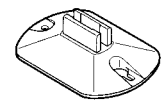
FM indoor antenna .....(1)
(T90-0810-05)



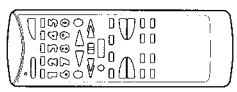
AM loop antenna ass'y .....(1)
(T90-0195-05)



Loop antenna stand
(J19-3645-05)

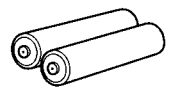


Remote control unit .....(1)
(A70-1042-05) :
RC-R0803 for K,P,Y,X,M,C
(A70-1042-05) :
RC-R0803 for T,E
BATTERY COVER :
(A09-0169-08)

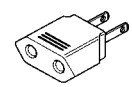


Batteries (R6/AA) .....(2)

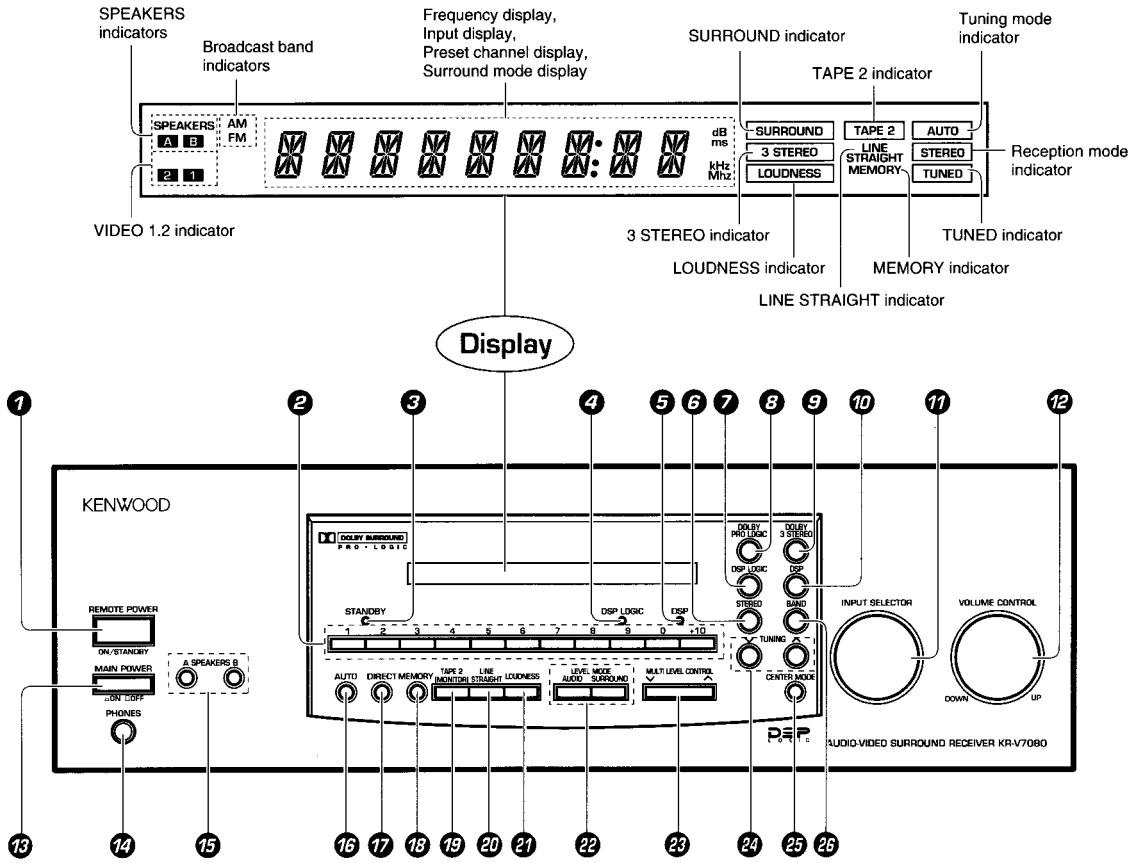
(–)



AC plug adaptor .....(1)
(E03-0115-05) : M only



CONTROLS



❶ **REMOTE POWER key**
Press to switch over the STANDBY/ON modes when the MAIN POWER is ON.

❷ **Numeric keys**

❸ **STANDBY indicator**

❹ **DSP LOGIC indicator**
Lights when the DSP LOGIC mode is ON.

❺ **DSP indicator**
Lights when the DSP presence mode is ON.

❻ **STEREO key**
Press to cancel the surround modes.

❼ **DSP LOGIC key**

❽ **DOLBY PRO LOGIC key**

❾ **DOLBY 3 STEREO key**

❿ **DSP key**

⓫ **INPUT SELECTOR Knob**
Turn to select the input sources.

⓬ **VOLUME CONTROL Knob**

⓭ **MAIN POWER switch**
Press to switch the main power ON/OFF.

⓮ **PHONES jack**
Used for headphone listening.

⓯ **SPEAKERS A/B keys**
Press to select the A and/or B speaker systems.

⓰ **AUTO key**
Press for select the auto tuning mode.

⓱ **DIRECT key**
Press for direct station tuning based on numerical input.

⓲ **MEMORY key**
Press to preset a station in the memory.

⓳ **TAPE 2(MONITOR) key**
Press to monitor the sound being recorded.

⓴ **LINE STRAIGHT key**
Press to listen to a source with high quality sound.

㉑ **LOUDNESS key**
Press to enhance low frequencies.

㉒ **LEVEL MODE (AUDIO, SURROUND) keys**
AUDIO key :
Press when adjusting the tone.
SURROUND key :
Press when adjusting the surround modes.

㉓ **MULTI LEVEL CONTROL key**
Press to adjust the tone or surround mode setting.

㉔ **TUNING keys**
Press to tune broadcast stations.

㉕ **CENTER MODE key**
Press to select the center mode in the DOLBY PRO LOGIC surround mode.

㉖ **BAND key**
Press to switch the broadcast band.

STANDBY mode of REMOTE POWER key
When the power cord of this system is plugged in to a power outlet and the **MAIN POWER** switch is pressed to ON, the **STANDBY** indicator lights up regardless of the **REMOTE POWER** key setting . This indicates that a small amount of current is current is being supplied to the unit to back up the memory contents. This mode is referred to as the Standby mode. While the **STANDBY** indicator is lit, the power of the system can also be switched ON/OFF from the remote control unit.

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REMOTE CONTROL OPERATION

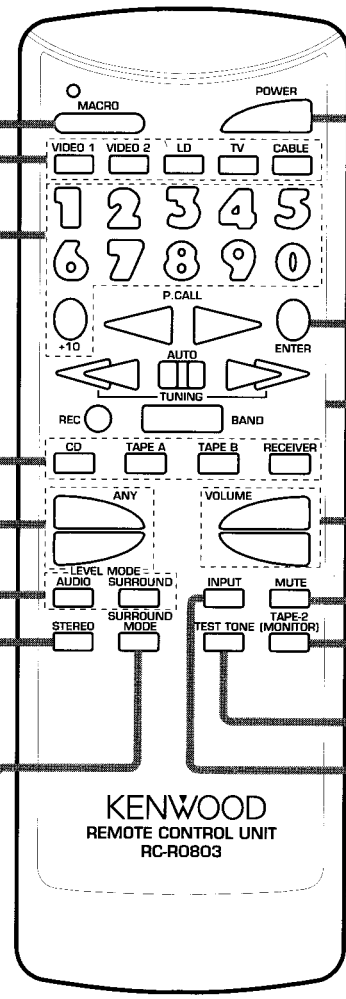
The remote control unit provided with unit functions in the following two modes so that it can be used to control other KENWOOD system components as well as video components from other manufacturers.

KENWOOD component control mode ..... This mode is used to control the KENWOOD source components including cassette decks and a CD player. (The controlled components must be connected to this unit through system control cords.)

Video component control mode ..... This mode allows to control the basic operations of video components from KENWOOD as well as other manufacturers.

Some of the keys act in different ways depending on the modes described above. Therefor, be sure to adjust the required mode before pressing these keys.

Model: RC-R0803
Infrared ray system



MACRO key
Press for automatic control of several components. (MACRO PLAY)

Controlled component selection keys
Pressing any of these keys initiate the video component control mode. Press one of these keys to select the video component to be remote controlled.

Numeric keys
Used as the numeric keys of the input source component being selected.

Controlled component selection keys
Pressing any of these keys initiate the KENWOOD component control mode. Press one of these keys to select the component to be remote controlled.

ANY keys
Press to adjust the tone or surround mode setting.

LEVEL MODE keys
AUDIO key :
Press when adjusting the tone.

SURROUND key
Press when adjusting the surround modes.

STEREO key
Press to cancel the surround modes.

SURROUND MODE key
Press to select the surround mode of the receiver unit.

POWER key
Press to switch ON/OFF the power of this unit as well as the KENWOOD components connected to it through system control cords.

ENTER key
Used to preset the set-up codes of video components and in the MACRO PLAY operation.

Refer to the remote control key correspondence table on the next page.

VOLUME keys
Press to adjust the volume.

MUTE key
Press to mute sound temporarily.

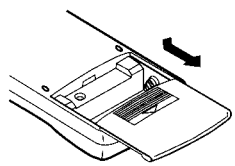
TAPE 2[MONITOR] key
Press to monitor the sound being recorded.

TEST TONE key
Press when adjusting the speaker volumes in the surround modes.

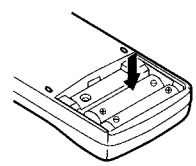
INPUT key
Press to select the inputs.

Loading batteries

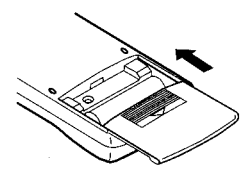
①Remove the cover.



②Insert batteries.

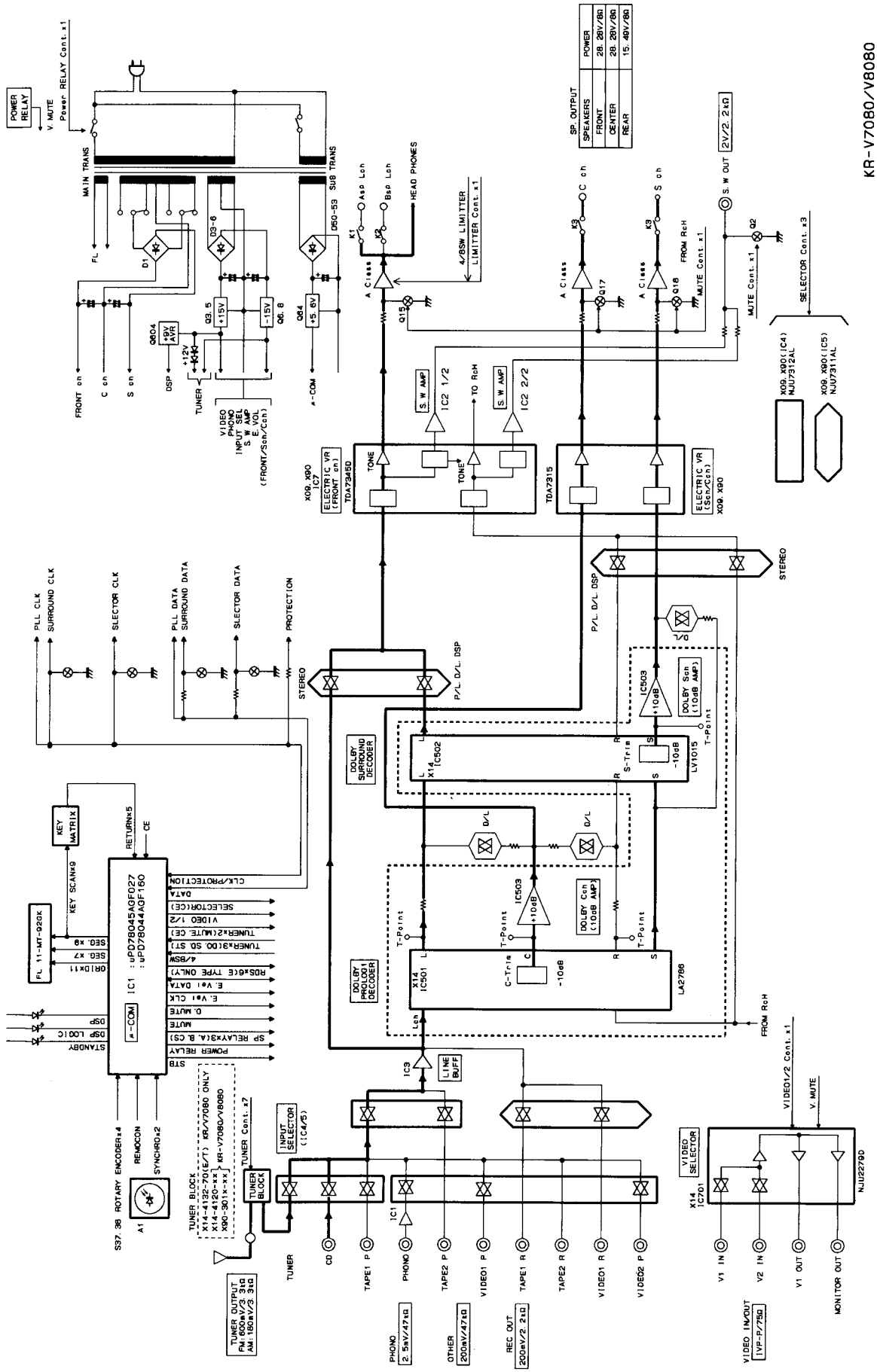


③Close the cover.



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

BLOCK DIAGRAM



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CIRCUIT DESCRIPTION

1. INITIAL STATE

(1) POWER OFF

(2) AMP-related block

• AUDIO SELECTOR	TUNER
• VIDEO SELECTOR	VIDEO 1
• SPEAKER A	ON
• SPEAKER B	OFF
• TAPE 2 MONITOR	OFF
• LINE STRAIGHT	OFF
• AUDIO ADJUST MODE	BALANCE
• BASS	0 dB
• TREBLE	0 dB
• SUB WOOFER	0 step
• BALANCE	CENTER
• VOLUME	7 step
• LOUDNESS	OFF

(3) SURROUND-related block

• SURROUND MODE	STEREO (SURROUND OFF)
• SURROUND ADJUST MODE	DELAY
• DELAY TIME	
DSP/DSP LOGIC	30ms
DOLBY PRO LOGIC	20ms
• CENTER LEVEL	0 dB
• REAR LEVEL	0 dB
• CENTER MODE	NORMAL
• DSP MODE	ARENA
• DSP LOGIC MODE	LARGE

(4) Tune-related block

• BAND	FM
• FREQUENCY	Lower-limit value of FM (87.50 MHz)
• AUTO MODE	AUTO
• P.CH DISPLAY	- - CH

(5) TEST PRESET FREQUENCY

Channel	BAND	K1 TYPE	BAND	K2 TYPE	BAND	E TYPE
01ch	FM	87.50MHz	FM	87.50MHz	FM	87.50MHz
02ch	FM	98.00MHz	FM	98.00MHz	FM	98.00MHz
03ch	FM	108.00MHz	FM	108.00MHz	FM	108.00MHZ
04ch	AM	630kHz	AM	630kHz	AM	630kHz
05ch	AM	1000kHz	AM	1000kHz	AM	999kHz
06ch	AM	1440kHz	AM	1440kHz	AM	1440kHz
07ch	FM	87.50MHz	FM	87.50MHz	FM	87.50MHz
08ch	FM	87.50MHz	FM	87.50MHz	FM	87.50MHz
09ch	FM	87.50MHz	FM	87.50MHz	FM	87.50MHz
10ch	FM	89.10MHz	FM	89.10MHz	FM	89.10MHz
11ch	FM	90.00MHz	FM	90.00MHz	FM	90.00MHz
12ch	FM	97.50MHz	FM	97.50MHz	FM	97.50MHz
13ch	FM	98.50MHz	FM	98.50MHz	FM	98.50MHz
14ch	FM	106.00MHz	FM	106.00MHz	FM	106.00MHz
15ch	AM	530kHz	AM	530kHz	AM	531kHz
16ch	AM	990kHz	AM	990kHz	AM	990kHz
17ch	AM	1700kHz	AM	1610kHz	AM	1602kHz
18ch	FM	87.50 MHz	FM	87.50MHz	FM	87.50MHz
19ch	FM	87.50MHz	FM	87.50MHZ	FM	87.50MHz
20ch	FM	87.50MHz	FM	87.50MHz	FM	87.50MHz

The initial setting is performed in a following event :

1. When backup memory data is destroyed when reset is applied to the microprocessor.
2. When the power cord is plugged in to the AC wall outlet while pressing the POWER key.

CIRCUIT DESCRIPTION

2. BACKUP

This function holds the current state of the unit even if the AC power of the AV receiver is turned OFF.

(1) Operation outline

The backup state set command signal (CE) of a microcomputer is set low when the AC power is turned OFF. The microcomputer detects detects the signal and enters the stop state.
The microcomputer is reset when the AC power is turned ON. The data for backup state confirmation is checked by reset processing.
The microcomputer is initialized when the data was destroyed. If it is not destroyed, the microcomputer is started in the backup state.

- The data for backup state confirmation is written in a RAM area.
- The microcomputer is set to the STOP mode so as to save the power consumption.
- A backup state set command signal is detected by a timer interrupt of 1 msec.
- The backup guarantee period is set in a circuit.

(2) Backup state setting

- The data (A596H/5A69H) for backup state confirmation is written in a RAM area.
- Setting the special function port

  Set the input/output port of a serial interface to the serial interface operation stop mode. Set the FIP controller to the display OFF mode.
- Setting the microcomputer's internal special function

  Set all the interrupt enable flags to the disable state, respectively. Set the microcomputer to the STOP mode and stop the system clock oscillation of the microcomputer.

(3) Contents of backup data to be held

- POWER ON/OFF state
- VOLUME LEVEL date
- BALANCE LEVEL date
- N.B.ON/OFF
- SELECTOR SOURCE

– – – TUNER – – –

- LAST BAND
- RECEIVING STATION FREQUENCY data
- PRESET MEMORY data (1ch~40ch)
- AUTO/MANUAL mode

– – – AMP – – –

- POWER STANDBY ON/OFF
- SELECTOR SOURCE
- VIDEO OUT SOURCE
- TAPE2 MONITOR ON/OFF
- SPEAKER A RELAY ON/OFF
- SPEAKER B RELAY ON/OFF
- VOLUME LEVEL VALUE
- AUDIO ADJUST MODE
- BALANCE LEVEL VALUE
- BASS LEVEL
- TREBLE LEVEL
- SUB WOOFER LEVEL
- LINE STRAIGHT ON /OFF
- LOUDNESS ON/OFF

– – – SURROUND – – –

- SURROUND MODE
- DSP MODE
- DSP LOGIC MODE
- CENTER MODE
- SURROUND ADJUST MODE
- DELAY TIME
- CENTER LEVEL
- REAR LEVEL

3. PROTECTION

The protection state is entered when abnormality is detected during the POWER-ON sequence.

- The power and speaker are turned OFF when the abnormal state is detected during the POWER-ON sequence.
- The STANDBY LED blinks every 500 msec.
- The fluorescent display indicator goes OFF.

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4. DESTINATION LIST OF TUNER

Table 4-1 Destination List of Tuner

Destination	BAND	Receive frequency range	channel space	1F	PLL reference frequency	Destination DSW(X14-)		
						DSW2	DSW1	DSW0
						D31	D16	D29
K1	FM	87.5MHz~108.0MHz	100kHz	+10.7MHz	25kHz	0	0	0
	AM	530kHz~1700kHz	10kHz	+450kHz	10kHz			
K2	FM	87.5MHz~108.0MHz	100kHz	+10.7MHz	25kHz	0	0	1
	AM	530kHz~1610kHz	10kHz	+450kHz	10kHz			
E1	FM	87.5MHz~108.0MHz	50kHz	+10.7MHz	25kHz	0	1	1
	AM	531kHz~1602kHz	9kHz	+450kHz	9kHz			
E3 (RDS)	FM	87.5MHz~108.0MHz	50kHz	+10.7MHz	25kHz	1	0	1
	AM	531kHz~1602kHz	9kHz	+450kHz	9kHz			
M	KZ/E1 changes by only setting "DSW1". (DSW 1=0 : K2 Type, 1 : E1 Type)					0	X	1

DIODE SW(DSWX) : 0 = Without DIODE (When static, input LOW)
1 = With DIODE(When static, input HIGH)
X = TRANSISTOR SW (0 = OFF 1=0N)

※ ATTENTION

A SUB WOOFER output signal is output irrespective of SP selector switch (ASP and BSP) ON/OFF setting
The RDS PTY AF search always corresponds to a span search of 100kHz. Therefore, a span search of 50 kHz cannot be performed.

5. TEST MODE

5-1. TEST MODE OF MAIN UNIT

(1) Setting the test mode

The main unit is put into the test mode when the AC power is turned ON while pressing the "TUNING DOWN" key. The following state is obtained when the test mode of the main unit set.

- The power is turned ON automatically.
- All the fluorescent display indicators and LEDs light.

(The all-illuminated state is cleared by pressing any main unit key.)

- The backup state except when the power is turned ON and OFF is initialized.

(2) Canceling the test mode

Turn OFF the AC power.

(3) Tuner functions

- Preset channel call function

1) Calls channels 1 to 9 (keys 1 to 9) and channel 10 (key 0) when the 10 key is not operated.
2) Calls channels 11 to 19 (keys 1 to 9) and channel 20 (key 0)when the +10 key is operated once.
3) Calls channels 21 to 29 (keys 1 to 9) and channel 30 (key 0) when the +10 key is operated two times and calls channels 31 to 39 (keys 1 to 9) and channel 40 (key 0) when the +10 key is operated three times.
4) Shifts to the operation obtained when the +10 key is not operated if it is operated four times.

- S level hexadecimal data display function
  With the selector on TUNER, when the "DOLBY PRO LOGIC" key on the main unit is operated, the frequency display ceases and the S level is displayed in hexadecimal while the key is pressed.
  When "3 STEREO" is operated, the display is switched to restore the normal display.
- Mute signal output
  No Selector MUTE(MUTE 1) control regulation is done whatever.
- With the selector on TUNER, when the "SP A" key on the main unit is operated, the SP A display is erased and ATT is on. If the "SP A" on the main unit is operated again after that, SP A is displayed and ATT is switched OFF. The SP A operation and ATT operation work together and are combined with switching the ATT display ON and OFF.

※ Under the ATT ON/OFF relationship, ATT can not be entered in an AF search in test mode.
The ATT operation is done from ATT OFF.
If SP A was turned OFF with the selector on something other than TUNER, it will come on when TUNER is selected.

CIRCUIT DESCRIPTION

(4) AMP function

The original function of each key is executed when the SELECTOR mode is set to TUNER. The test mode operation is not performed in this case.

- One touch max, mid, min setting for Audio Level and Surround Level
  The variation of Audio Level and Surround Level can be operated by turning the Multi-Level UP or DOWN and, if the selector is on something other than TUNER, max, mid, min settings can be made with the number keys.

1) Max is number key "2"
2) Mid is number key "3"
3) Min is number key "1"
4) The Mid setting is as follows:

Master VOL. DELAY is the initial value
Balance is centered
BASS, TREBLE, SUB-WOOFER, CENTER and REAR are 0 dB or 0 step
Effect is 1 step

(5) EFFECT is 0 step for Min and 2 step for Max.

- One touch settings for Audio Level and Surround Level items
  The variation of Audio Level and Surround Level items can be set with respective keys and, if the selector is on something other than TUNER, direct settings can be made with the number keys.

1) Balance is number key "4"
2) Bass is number key "5"
3) Treble is number key "6"
4) Sub-Woofer is number key "7"
5) Rear Lever is number key "8"
6) Center Level is number key "9"
7) Delay Time is number key "0"
8) Effect Level is number key "+10"

- TEST TONE operation
  Uses the "DIRECT" key instead of the "TEST TONE" key.
- MUTE signal output
  Sets the analog muting to OFF at all times. No control is performed in this case. Sets the analog muting to ON in the same way as during normal operation when the front volume is set to the minimum value(-∞ dB).
- Impedance 4/8 selection
  No impedance 4/8 display appears in the normal state. Therefore, the SPEAKERS lamp of the fluorescent display indicator is turned ON and OFF in th test mode.
  The SPEAKERS lamp is turned ON when the impedance is 4.
  The SPEAKERS lamp is turned OFF when the impedance is 8.
- MUTE Operation
  Mute operation is toggled ON and OFF by pressing the "AUTO/MANUAL" key.

5-2. SERIAL TEST MODE

(1) Setting the serial test mode

The unit is put into the serial test mode when a serial code "TEST ON" is input during the POWER-ON sequence.
In the 8-bit serial test mode, serial code71H is input.
In the 16-bit serial test mode, serial code C27FH is input.

- In the serial test mode, all remote control keys and ordinary serial codes are disabled. Only the panel keys perform the same operation as usually.

(2) Canceling the serial test mode

- The serial test mode is canceled to return to the ordinary mode by inputting a "TEST OFF" code. After the ordinary mode was returned, the serial mode is returned to the state before the test mode is entered.
  The backup operation is not initialized.
- The serial test mode is also canceled when the AC power is turned OFF.

(3) Cautions

- The serial test code is prescribed as a 16-bit code only.
- The operations below are inhibited in the serial test mode.
  Manual tuning UP/DOWN operation
  UP/DOWN selection in PTY selection mode
  AF search in ATT ON state
  The operations mentioned above cannot be guaranteed when they are performed in the serial test mode.
- An identical code is output when the serial test mode code is input.
- A TUNED ON/TUNED OFF code is only output.

(4) The serial test mode codes for ATT ON/OFF operate in the same way as for test mode with the main unit keys.

(SP A also goes ON/OFF as ATT goes on/off.)

- Under the ATT ON/OFF relationship, ATT can not be entered in an AF search in test mode.
  The ATT operation is done from ATT OFF.
  If SP A was turned OFF with the selector on something other than TUNER, it will come on when TUNER is selected.

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CIRCUIT DESCRIPTION

(5) SERIAL TEST CODE LIST (C2XXH)

TYPE / FUNC	AMP								TUNER							
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	POWER OFF	CD DIRECT OFF	SP B OFF	DUAL SOUND LEVEL1	NB OFF				POWER OFF	0	MEMORY (ENTER)					
1	POWER ON	CD DIRECT ON	SP B ON	DUAL SOUND LEVEL2	OMNI SP ON	FRONT SP ON			POWER ON	1	MAIN					
2	PHONO	CD REC OFF	HIT MASTER OFF	DUAL SOUND LEVEL3	MUTING (-30dB) OFF	FRONT SP OFF			MUTE OFF	2	SUB					
3	CD	CD REC ON	HIT MASTER ON	DUAL SOUND INPUT CD	MUTING (-30dB) ON	C/S SP ON			MUTE ON	3	BOTH					
4	TUNER	SOURCE DIRECT OFF	MOTOR VOL UP	DUAL SOUND INPUT TUNER	NB LEVEL1	C/S SP OFF			AUTO STEREO	4	AF					
5	TAPE (TAPE A)	SOURCE DIRECT ON	MOTOR VOL DOWN	DUAL SOUND INPUT TAPE	NB LEVEL2	C/S MUTE ON			MONO	5	PTY					
6	TAPE2 (TAPE B)	LINE STRAIGHT OFF	MOTOR VOL STOP	DUAL SOUND INPUT MD/DAT	NB LEVEL3	VIDE05			TUNED OFF	6	DISPLAY					
7	AUX	SINE STRAIGHT ON	DBS/TV	DUAL SOUND INPUT VIDEO	BALANCE Lch MAX	MENU			TUNED ON	7						
8	DAT	LOUDNESS OFF	TAPE2 MONITOR OFF	DUAL SOUND INPUT AV/AUX	BALANCE Lch/Rch CENTER	TONE CONTROL OFF			ACTIVE RECEPTION OFF	8						
9	VIDEO1 (VIDEO)	LOUDNESS ON	TAPE2 MONITOR ON	BGH OFF	BALANCE Rch MAX	TONE CONTROL ON		FL ALL OFF OFF	ACTIVE RECEPTION ON	9						FL ALL OFF OFF
A	VIDEO2	SUB SONIC OFF	VIDEO MUTE ON	BGM ON	L.A.C. MAIN MAX	BASS MIN		FL ALL OFF ON	RF DIRECT	+10						FL ALL OFF ON
B	VIDEO3	SUB SONIC ON	LAC VOL UP	FAN OFF	L.A.C. MAIN/SUB CENTER	BASS MID		ALL ON OFF	ATT ON	BAND FM						ALL ON OFF
C	VIDEO4 (VDP)	SUPER WOOFER OFF	LAC VOL DOWN	FAN ON	L.A.C. SUB MIN	BASS MIX		ALL ON ON	ATT OFF	BAND AM/MW						ALL ON ON
D	MUTE ON (MAIN)	SUPER WOOFER ON	LAC VOL STOP	FAN SPEED LOW	FAN STOP LOW	TREBLE MIN		AMP INITIAL	IF NORMAL	BAND TV/LW						TUNER INITIAL
E	SEL MUTE ON	SPEAKER A OFF (FRONT)	DUAL SOUND OFF	FAN SPEED HIGH	FAN STOP HIGH	TREBLE MID		AMP SERIAL TEST OFF	IF NARROW	DOWN						TUNER SERIAL TEST OFF
F	MUTE ALL OFF	SPEAKER A ON (FRONT)	DUAL SOUND ON	NB ON		TREBLE MAX		AMP SERIAL TEST ON	DIRECT	UP						TUNER SERIAL TEST ON

: Sending code ■ : Receiving code

(C3XXH)

TYPE / FUNC	SURROUND								GE							
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	POWER OFF	REAR MUTE ON	ASFC MAX	ACOUSTIC BGM	PRESENCE GAME	ECHO 2	SUB WOOFER LEVEL MIN		POWER OFF	EQ JAZZ						
1	POWER ON	MUTE ALL OFF	SEAT POS MIN	CINEMA SCREEN OFF	PRESENCE KARAOKE	PRESENCE HIT MASTER	SUB WOOFER LEVEL MID		POWER ON	EQ FUSION						
2	STEREO BYPASS/OFF	CENTER LEVEL MIN	SEAT POS MID	CINEMA SCREEN 1	F.2ch	THX	SUB WOOFER LEVEL MAX		MUTE OFF	EQ MOVIE						
3	DOLBY SURROUND NORMAL/WID	CENTER LEVEL MID	SEAT POS MAX	CINEMA SCREEN 2	DOLBY SURROUND (PHANTOM)	MONO			MUTE ON							
4	DOLBY 3 STEREO	CENTER LEVEL MAX	WALL MIN	CINEMA SCREEN 3	DEPTH OFF	INPUT LEVEL MIN			EQ OFF							
5	DSP	REAR R LEVEL MIN	WALL MID	CH MODE 2ch	DEPTH ON	INPUT LEVEL MID			EQ ON							
6	DSP LOGIC	REAR R LEVEL MID	WALL MAX	CH MODE 3ch	DEPTH MODE VOCAL	INPUT LEVEL MAX			M1 (ALL CEN)							
7	S.4ch	REAR R LEVEL MAX	ROOM SIZE MIN	CH MODE 4ch	DEPTH MODE INSTRUMENT	FRONT L LEVEL MIN			M2 (ALL MAX)							
8	F.4ch	DELAY TIME MIN	ROOM SIZE MID	CH MODE 5ch	DEPTH LEVEL MIN	FRONT L LEVEL MID			M3 (ALL MIN)							
9	CENTER MODE NORMAL	DELAY TIME MID	ROOM SIZE MAX	DSP THROUGH	DEPTH LEVEL MID	FRONT L LEVEL MAX		FL ALL OFF OFF	EEPROM TEST							FL ALL OFF OFF
A	CENTER MODE WIDE	DELAY TIME MAX	STEREO (KARAOKE)	DSP ARENA	DEPTH LEVEL MAX	FRONT R LEVEL MIN		FL ALL OFF ON	EEPROM TEST OK							FL ALL OFF ON
B	CENTER MODE PHANTOM	(PRESENCE) EFFECT LEVEL MIN	MULTI (KARAOKE)	DSP JAZZ CLUB	SUB(OMNI) MUTE ON	FRONT R LEVEL MID		ALL ON OFF	EEPROM TEST NG							ALL ON OFF
C	TEST TONE OFF	(PRESENCE) EFFECT LEVEL MID	HiFi MULTI (KARAOKE)	DSP STADIUM	DSP LOGIC LARGE	FRONT R LEVEL MAX		ALL ON ON	LINE ON							ALL ON ON
D	TEST TONE ON	(PRESENCE) EFFECT LEVEL MAX	NORMAL (KARAOKE)	PRESENCE DISCO THEQUE	DSP LOGIC SMALL	REAR L LEVEL MIN		SURROUND INITIAL	TAPE ON							GE INITIAL
E	FRONT MUTE ON	ASFC MIN	ACOUSTIC NON DIRE1	PRESENCE CHURCH	ECHO OFF	REAR L LEVEL MID		SURROUND SERIAL TEST OFF	EQ POP							GE SERIAL TEST OFF
F	CENTER MUTE ON	ASFC MID	ACOUSTIC NON DIRE2	PRESENCE HOVIE	ECHO 1	REAR L LEVEL MAX		SURROUND SERIAL TEST ON	EQ ROCK							GE SERIAL TEST ON

: Sending code ■ : Receiving code

CIRCUIT DESCRIPTION

(C4XXH)

H / L	VOLUME LEVEL															
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	VOLUME 0	VOLUME 16	VOLUME 32	VOLUME 48	VOLUME 64											
1	VOLUME 1	VOLUME 17	VOLUME 33	VOLUME 49	VOLUME 65											
2	VOLUME 2	VOLUME 18	VOLUME 34	VOLUME 50	VOLUME 66											
3	VOLUME 3	VOLUME 19	VOLUME 35	VOLUME 51	VOLUME 67											
4	VOLUME 4	VOLUME 20	VOLUME 36	VOLUME 52	VOLUME 68											
5	VOLUME 5	VOLUME 21	VOLUME 37	VOLUME 53	VOLUME ∞											
6	VOLUME 6	VOLUME 22	VOLUME 38	VOLUME 54	VOLUME 70											
7	VOLUME 7	VOLUME 23	VOLUME 39	VOLUME 55	VOLUME 71											
8	VOLUME 8	VOLUME 24	VOLUME 40	VOLUME 56	VOLUME 72											
9	VOLUME 9	VOLUME 25	VOLUME 41	VOLUME 57	VOLUME 73											
A	VOLUME 10	VOLUME 26	VOLUME 42	VOLUME 58	VOLUME 74											
B	VOLUME 11	VOLUME 27	VOLUME 43	VOLUME 59	VOLUME 75											
C	VOLUME 12	VOLUME 28	VOLUME 44	VOLUME 60	VOLUME 76											
D	VOLUME 13	VOLUME 29	VOLUME 45	VOLUME 61	VOLUME 77											
E	VOLUME 14	VOLUME 30	VOLUME 46	VOLUME 62	VOLUME 78											
F	VOLUME 15	VOLUME 31	VOLUME 47	VOLUME 63												

: Sending code : Receiving code

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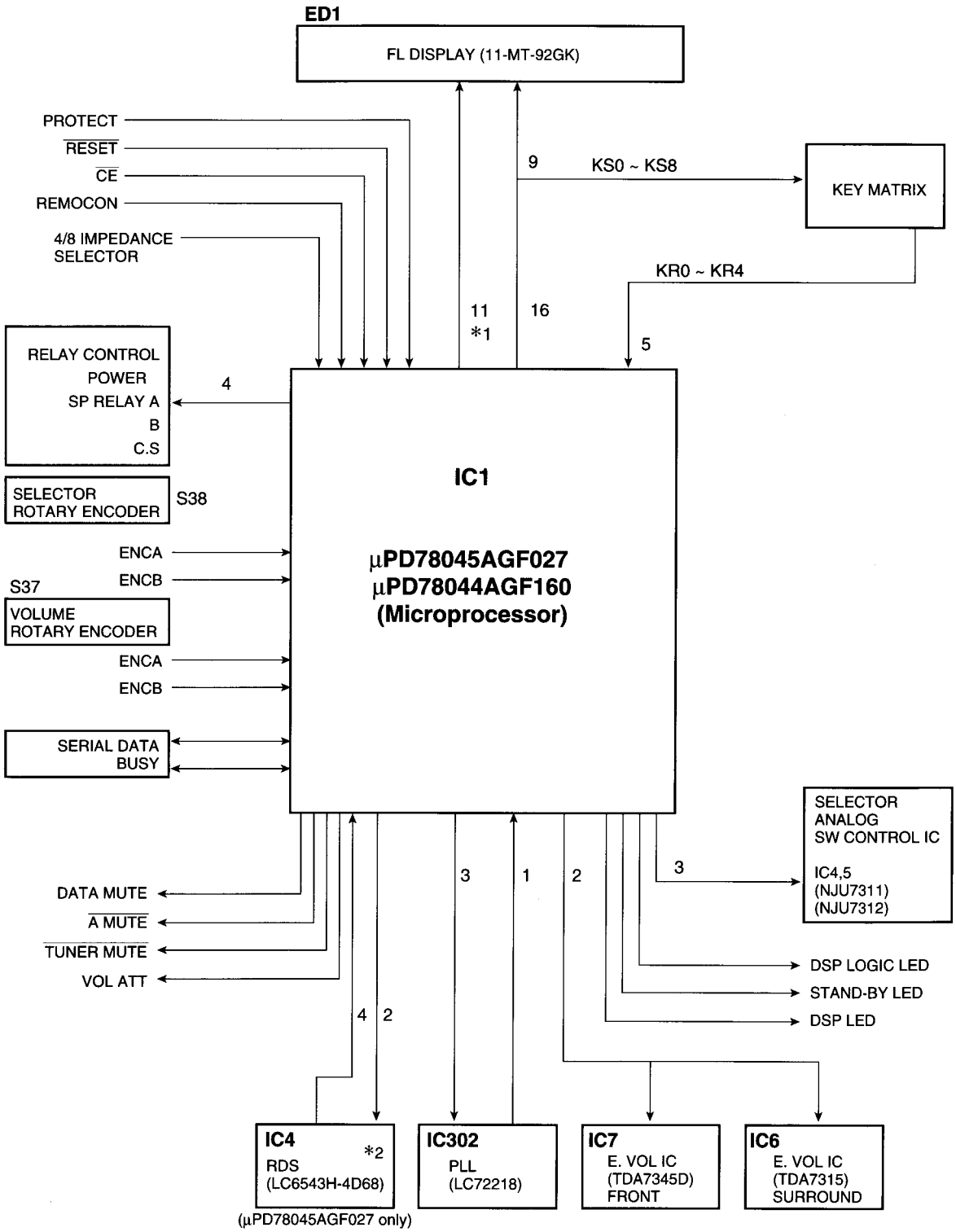
CIRCUIT DESCRIPTION

6. Microprocessor : μPD78044AGF160 (X14 : IC1)
μPD78045AGF027

Block diagram

μPD78044AGF160 [K, P, M, X, Y, type]
μPD78045AGF027 [E, T type]



*1 GRID to FL
*2 E3 Type (RDS feature installed) used RDS cynic microprocessor (LC6543H-4D68).

CIRCUIT DESCRIPTION

6-1. PIN FUNCTION

Pin NO.	Pin name	Port I/O	Name	Description	Active
1	P94/FIP6	O	5G	FL grid 5	———
2	P93/FIP5	O	6G	FL grid 6	———
3	P92/FIP4	O	7G	FL grid 7	———
4	P91/FIP3	O	8G	FL grid 8	———
5	P90/FIP2	O	9G	FL grid 9	———
6	P81/FIP1	O	10G	FL grid 10	———
7	P80/FIP0	O	11G	FL grid 11	———
8	Vcc	—	VDD	Micro processor power supply	———
9	P27/$\overline{\text{SCK0}}$	I/O	PROTECT/CLK	IN : Protection detection OUT : Control IC clock	H : ON
10	P26/S00/SBI	—	DATA	OUT : PLL IC/Selector IC/Surround IC control data	———
11	P25/S10/SB0	O	SUR ST.	Surround IC strobe	H : NORMAL L : TRANSFER
12	P24/BUSY	O	SEL ST.	Selector IC strobe	H : NORMAL L : TRANSFER
13	P23/STB	O	POWER RELAY	Power relay control	H : ON
14	P22/$\overline{\text{SCK1}}$	O	SP B RELAY	Speaker B relay control	H : ON L : OFF
15	P21/S01	O	SP A RELAY	Speaker A relay control	H : ON L : OFF
16	P20/SI1	O	SP CS RELAY	Surround speaker relay control	H : ON L: OFF
17	$\overline{\text{RESET}}$	I	$\overline{\text{RESET}}$	Microprocesser reset	L : RESET ON
18	P74	I	4/8 SELECT	IN : Speaker impedance selector	H : 4Ω L : 8Ω
19	P73	I	$\overline{\text{CE}}$	AC OFF(MAIN POWER) detection Signal	L : AC OFF
20	AVSS	—	AVSS	A/D power SUPPLY (GND)	———
21	P73/P17/AN17	O	$\overline{\text{A MUTE}}$	Volume IC address/data CE Analog mute signal	L : ON
22	P16/AN16	O	$\overline{\text{TUNER MUTE}}$	Tuner mute control	L : MUTE ON
23	P15/AN15	I	$\overline{\text{STEREO}}$	Stereo signal detection	L : STEREO ON
24	P14/AN14	I	$\overline{\text{SD}}$	Synchronized signal detection	———
25	P13/AN13	I	DO	IF count data (PLL DO)	———
26	P12/AN12	O	CE(PLL)	PLL Chip enable control	———
※27	P11/AN11	O	ATT (RDS)	Attenuate control	H : ON
※28	P10/AN10	I	S.LEVEL (RDS)	Signal level	H : ON
29	A Vcc	—	VDD	A/D power supply	———
30	A Vref	—	+5V	A/D reference voltage	———
31	P04/XT1	I	VOLUME ENCB	Volume encoder input B	———
32	XT2	—	NC		———
33	Vss	—	Vss	Microprocesser power supply	———
34	X1	—	OSC	4.19MHz oscillator	———
35	X2	—	OSC	4.19MHz oscillator	———
36	P37	I	VOLUME ENCA	Volume encoder in put A	———
37	P36/BUZ	O	SDA	Electric volume IC control data	———
38	P35/PCL	O	SCL	Electric volume IC control clock	———
39	P34/T12	I	SELECTOR ENCB	Selector encoder input B	———
40	P33/T11	I	SELECTOR ENCA	Selector encoder input A	———
41	P32/T02	I/O	S.DATA	8/16 bit system data	———
42	P31/T01	I/O	S.BUSY	8/16 bit system busy	H : BUSY L : READY
※43	P30/T00	O	$\overline{\text{RES}}$ (RDS)	RDS IC reset signal	L : RESET ON
※44	P03/INTP3/C10	I	CLK (RDS)	RDS clock	———

※E/T type only, other types unused.

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CIRCUIT DESCRIPTION

Pin NO.	Pin name	Port I/O	Name	Description	Active
※45	P02/INTP2	I	DATA(RDS)	RDS data	———
※46	P01/INTP1	I	START(RDS)	RDS data start signal	L : START
47	P00/INTP0/TI	I	REM	Remote control input	———
48	IC	—	Vss		———
49	P72	O	$\overline{\text{STANDBY LED}}$	Standby LED	L : LED ON
50	P71	O	$\overline{\text{DSP LOGIC LED}}$	DSP LOGIC LED	L : LED ON
51	P70	O	$\overline{\text{DSP LED}}$	DSP LED	L : LED ON
52	VDD	—	VDD	Microprocessor power supply (+5V)	———
53	P127/FIP33	O	VOL ATT	Volume(-12.5dB) attenuate signal	H : ATT ON L : ATT OFF
54	P126/FIP32	O	DATA MUTE	Data mute control	H : ON
55	P125/FIP31	I	KR4	Key return 4	———
56	P124/FIP30	I	KR3	Key return 3	———
57	P123/FIP29	I	KR2	Key return 2	———
58	P122/FIP28	I	KR1	Key return 1	———
59	P121/FIP27	I	KR0	Key return 0	———
60	P120/FIP26	O	P16KS8	FL Segment 16/key scan 8	———
61	P117/FIP25	O	P15/KS7	FL Segment 15/key scan 7	———
62	P116/FIP24	O	P14/KS6	FL Segment 14/key scan 6	———
63	P115/FIP23	O	P13/KS5	FL Segment 13/key scan 5	———
64	P114/FIP22	O	P12/KS4	FL Segment 12/key scan 4	———
65	P113/FIP21	O	P11/KS3	FL Segment 11/key scan 3	———
66	P112/FIP20	O	P10/KS2	FL Segment 10/key scan 2	———
67	P111/FIP19	O	P9/KS1	FL Segment 09/key scan 1	———
68	P110/FIP18	O	P8/KS0	FL Segment 08/key scan 0	———
69	P107/FIP17	O	P1	FL Segment 1	———
70	P106/FIP16	O	P2	FL Segment 2	———
71	V load	—	V load	FL drive power supply (-30V)	———
72	P105/FIP15	O	P3	FL Segment 3	———
73	P104/FIP14	O	P4	FL Segment 4	———
74	P103/FIP13	O	P5	FL Segment 5	———
75	P102/FIP12	O	P6	FL Segment 6	———
76	P101/FIP11	O	P7	FL Segment 7	———
77	P100/FIP10	O	G1	FL grid 1	———
78	P97/FIP9	O	G2	FL grid 2	———
79	P96/FIP8	O	G3	FL grid 3	———
80	P95/FIP7	O	G4	FL grid 4	———

※The RDS PTY AF search always corresponds to a span search of 100kHz. Therefore, a span search of 50 kHz cannot be performed.

CIRCUIT DESCRIPTION

7. KEY MATRIX

[( ) : μ-com IC port]

Table 7-1 Key Matrix List

KRTN / KSCN	KR0 (59)	KR1 (58)	KR2 (57)	KR3 (56)	KR4 (55)
KS0 (68)	—	*1 RDS PTY	*1 RDS AF	*1 RDS DISPLAY	—
KS1 (67)	6 (10KEY)	5 (10KEY)	—	LOUDNESS	TAPE 2
KS2 (66)	7 (10KEY)	4 (10KEY)	—	MEMORY	LINE STRAIGHT
KS3 (65)	8 (10KEY)	3 (10KEY)	+10	DIRECT	AUDIO LEVEL MODE
KS4 (64)	9 (10KEY)	2 (10KEY)	REMOTE POWER	AUTO	SURROUND LEVEL MODE
KS5 (63)	0 (10KEY)	1 (10KEY)	SPEAKER A	SPEAKER B	MULTI DOWN
KS6 (62)	PRO LOGIC	DSP LOGIC	STEREO	TUNING DOWN	MULTI UP
KS7 (61)	3 STEREO	DSP	BAND	TUNING UP	CENTER MODE
KS8 (60)	* 3 DSW0	* 3 DSW1	* 3 DSW2	* 2 DSW3	—

* 1 The destination is E3 type only. For another destination, there is no key. (RDS function)
* 2 Used for operation selector of 8- or 16- bit serial data.
* 3 Used for discrimination of the destination. (Refer to the Destination List of Tuner in Table 5-1.)

8. XS8/XL16 Function

Implements an additional operation by the system in order to shift a system operated by XS8 to SL16.

8-1. Addition of a selector source

Adding a system operation adds selector sources MD and LD and controls MD and LD system operation.

(1) Selector source switching

MD and LD are switched as TAPE1 and VIDEO2 background modes separately from the normal selector functions.

- Switch the selector source by holding down the AUTO panel key for at least two seconds.

  TAPE1 -> MD

  VIDEO2 -> LD

  (If another key is entered while the key is being entered, the key input is set to off and the key is made ineffective.)

  When a MD or LD is used, the MD is connected to the RCA Pin of TAPE1 and the LD to the RCA Pin/Video Input of VIDEO2.
- The operation of the system controls only the currently selected source and has no control whatsoever over the operation of the side which is not selected.
  For example, while MD is selected, even if the "Deck B Play" serial code is received, MD will remain selected without switching from MD to TAPE1.

(2) Settings during microprocessor backup or initialization

- During microprocessor initialization the selector is set to TAPE1 and VIDEO2. The current selector mode (TAPE1/MD and VIDEO2/LD) is maintained except when the backup is disrupted .

(3) Other items be noted

- This selector switching function has been developed in accordance with new serial codes. Therefore, if XS8 is used, since there is no code for MD and LD, the selector source function will not work if the 8/16-bit serial mode is 8-bit. It works only in 16-bit mode.
  Also, if serial mode has been switched from 16-bit to 8-bit when MD and LD are being selected, it will force a switch to TAPE1 and VIDEO2.

8-2. Changeover preference order

① Pressing KEY, then turn on power.

↓

② Backup data of ①.

↓

③ Diode matrix changeover.

8-3. XS8 / SL16 Selection

- KS8 and KR3 are used for the operation selection of 8- or 16- bit serial data. The 8- and 16- bit serial data are selected only during reset initialization.

Table 8-1 8-/16- bit Selection

DSW / Serial cord	DSW3
8- bit serial	0
16- bit serial	1

9. System operation of SL16

Easy operation one way amplifier and receiver. Other source devices are compatible with one-way and two-way easy operation. Operation is 16-bit.
Operation is two way and compatible with operating mode display. Also, adding MD and LD to input selector makes it compatible with easy operation. Apart from TUNER, source devices are operating mode display compatible and input selector MD and LD compatible. Since it is not possible for the amplifier and receiver to be always compatible with operating mode displays, they are only input selector MD and LD compatible and SL16 compatible.

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KR-V7080/V8080

ADJUSTMENT

FM SECTION SELECTION : FM

KR-V7080 (E,T TYPE)

NO.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
1	DISCRIMINATOR	(A) 98.0kHz 1kHz, ±40kHz dev. (E,T type) 60 dBμ (ANT input)	Connect a DC voltmeter between TP3 and TP4 (X14-) (B/6)	MONO 98.0MHz	L 303 (X14-) (B/6)	0V	(a)
2	DISTORTION (STEREO)	(C) 98.0MHZ 1kHz, ±40kHz dev. Pilot: ±6kHz dev. 60dBμ (ANT input)	(B)	AUTO 98.0MHz	A301 (X14-) (B/6)	Minimum distortion.	(a)

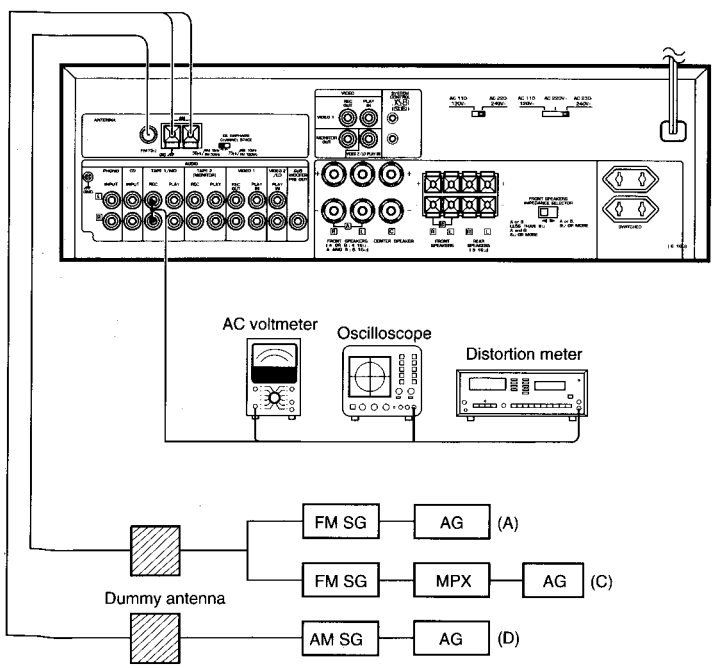
KR-V7080 (OTHER TYPE) / KR-V8080

NO.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
1	DISTORTION (STEREO)	(C) 98.0MHz 1kHz, ±67.5 kHz dev. Pilot: ±7.5kHz dev. 60dBμ (ANT input)	(B)	AUTO 98.0MHz	A301 (X14-) (B/6)	Minimum distortion.	(a)

AUDIO SECTION

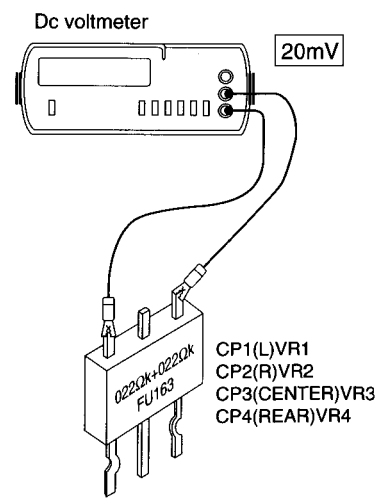
NO.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
POWER: ON		SPEAKER: B	SELECTOR: PHONO				
1	IDLE CURRENT		(E) Connect a DC voltmeter across CP1(L) CP2(R) CP3(CENTER) CP4(REAR) (X09-) (A/4)	Volume: 0	VR1(L) VR2(R) VR3(CENTER) VR4(REAR) (X09-) (A/4)	20mV	(b)

(a)



(b)

System connections



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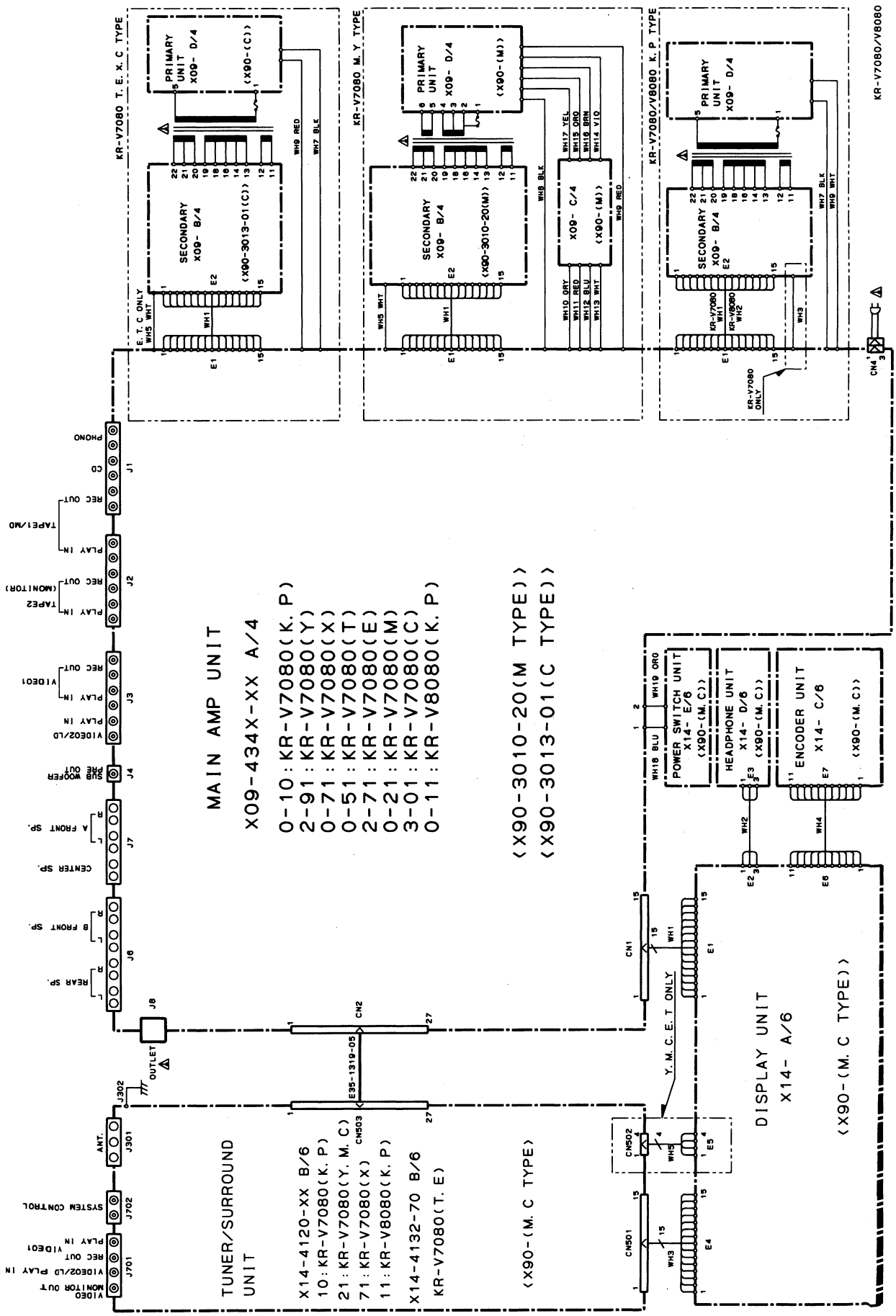
WIRING DIAGRAM



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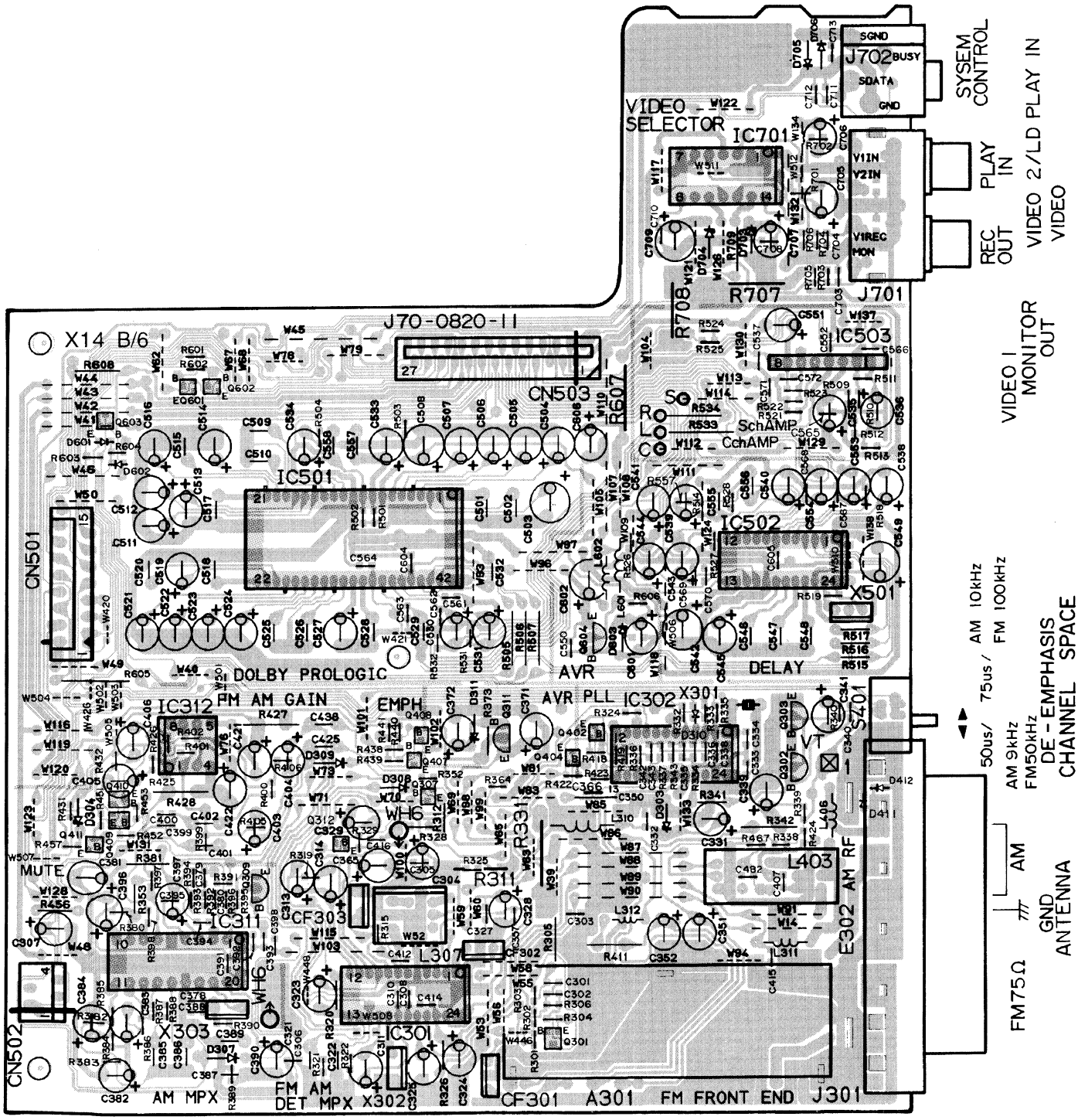
PC BOARD (Component side view)

DISPLAY unit (X14-41xx-xx)

20-10 : KR-V7080 K,P
20-21 : KR-V7080 Y,M,C
20-71 : KR-V7080 X
32-70 : KR-V7080 T,E
20-11 : KR-V8080 K,P



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

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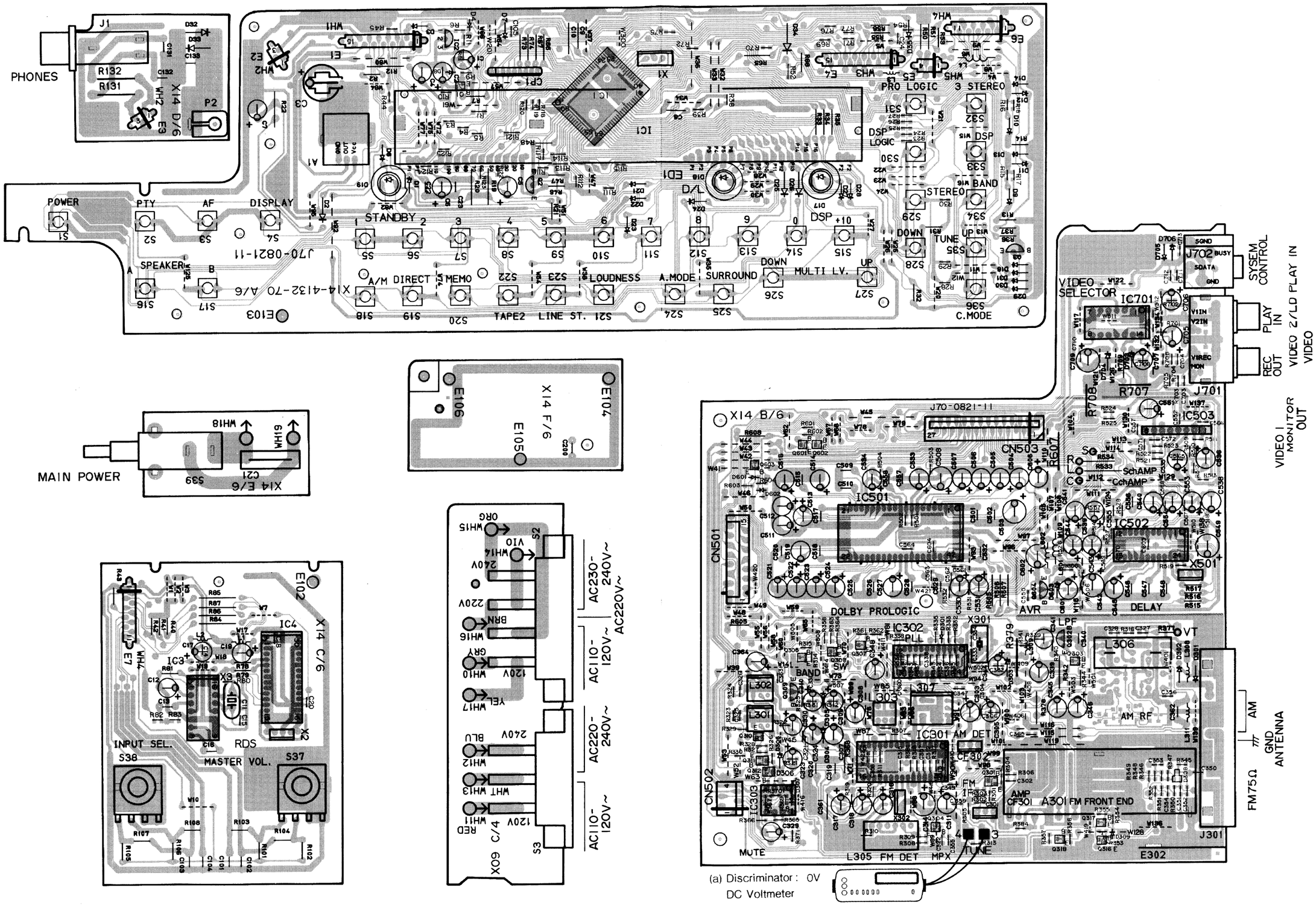
PC BOARD (Component side view)

DISPLAY unit (X14-41xx-xx) **20-10 : KR-V7080 K,P** **20-21 : KR-V7080 Y,M,C** **20-71 : KR-V7080 X**
32-70 : KR-V7080 T,E **20-11 : KR-V8080 K,P**



(a) Discriminator : 0V
DC Voltmeter

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

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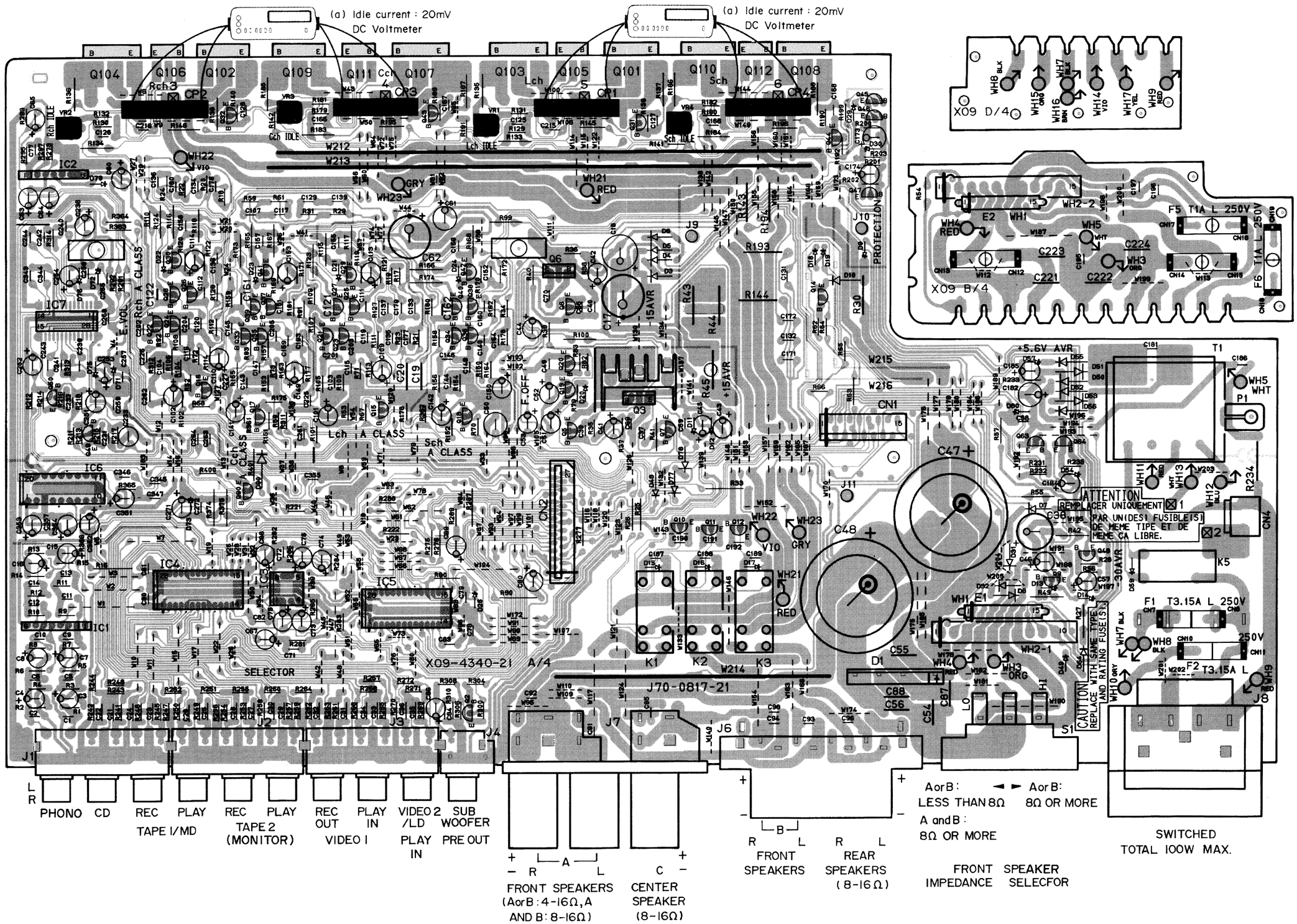
PC BOARD (Component side view)

AUDIO unit (X09-434x-xx) 0-10 : KR-V7080 K,P 0-21 : KR-V7080 M 0-51 : KR-V7080 T 0-71 : KR-V7080 X
2-71 : KR-V7080 E 2-91 : KR-V7080 Y 3-01 : KR-V7080 C 0-11 : KR-V8080 K,P



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

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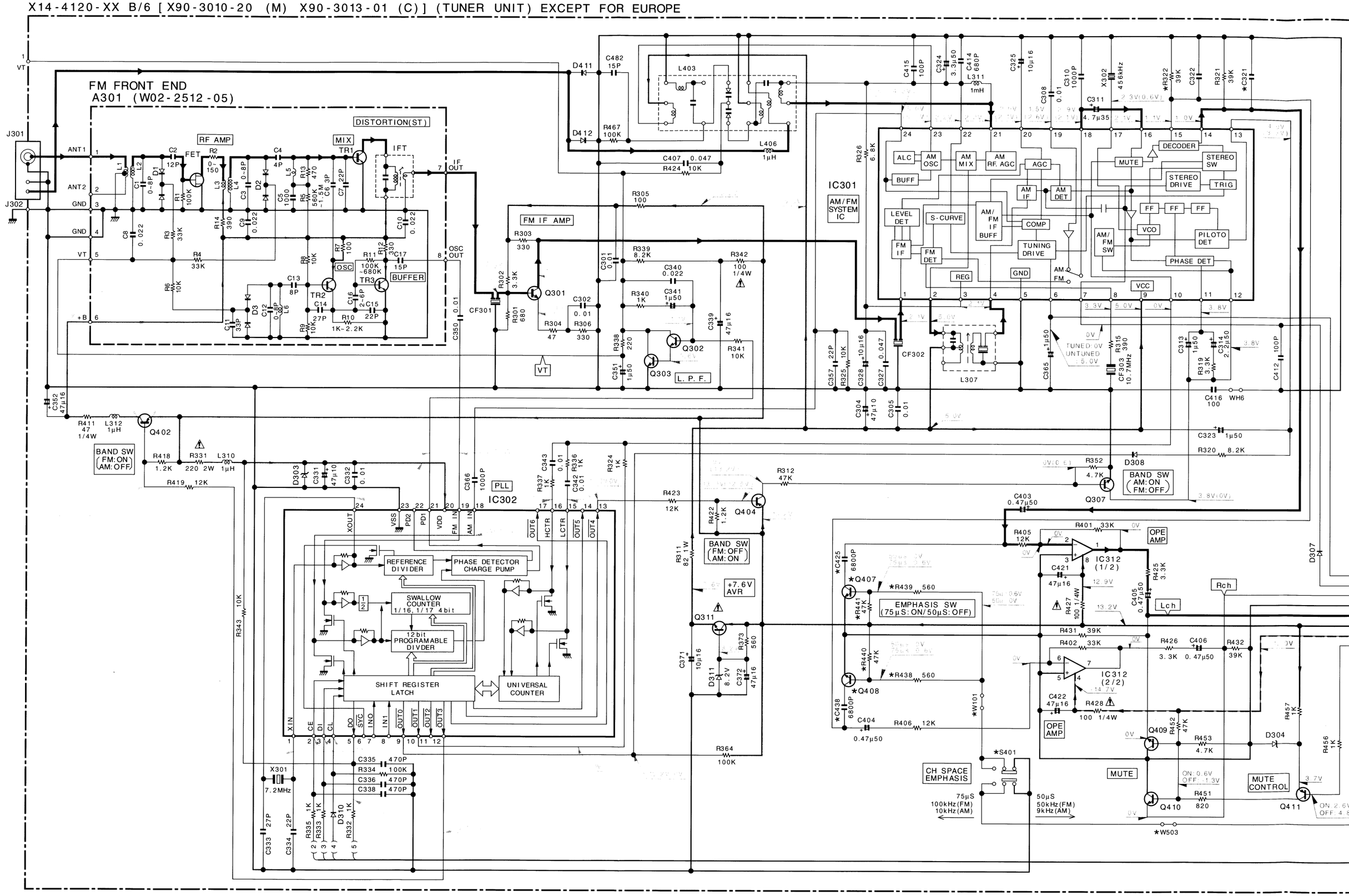
X14-4120-XX B/6 [X90-3010-20 (M) X90-3013-01 (C)] (TUNER UNIT) EXCEPT FOR EUROPE



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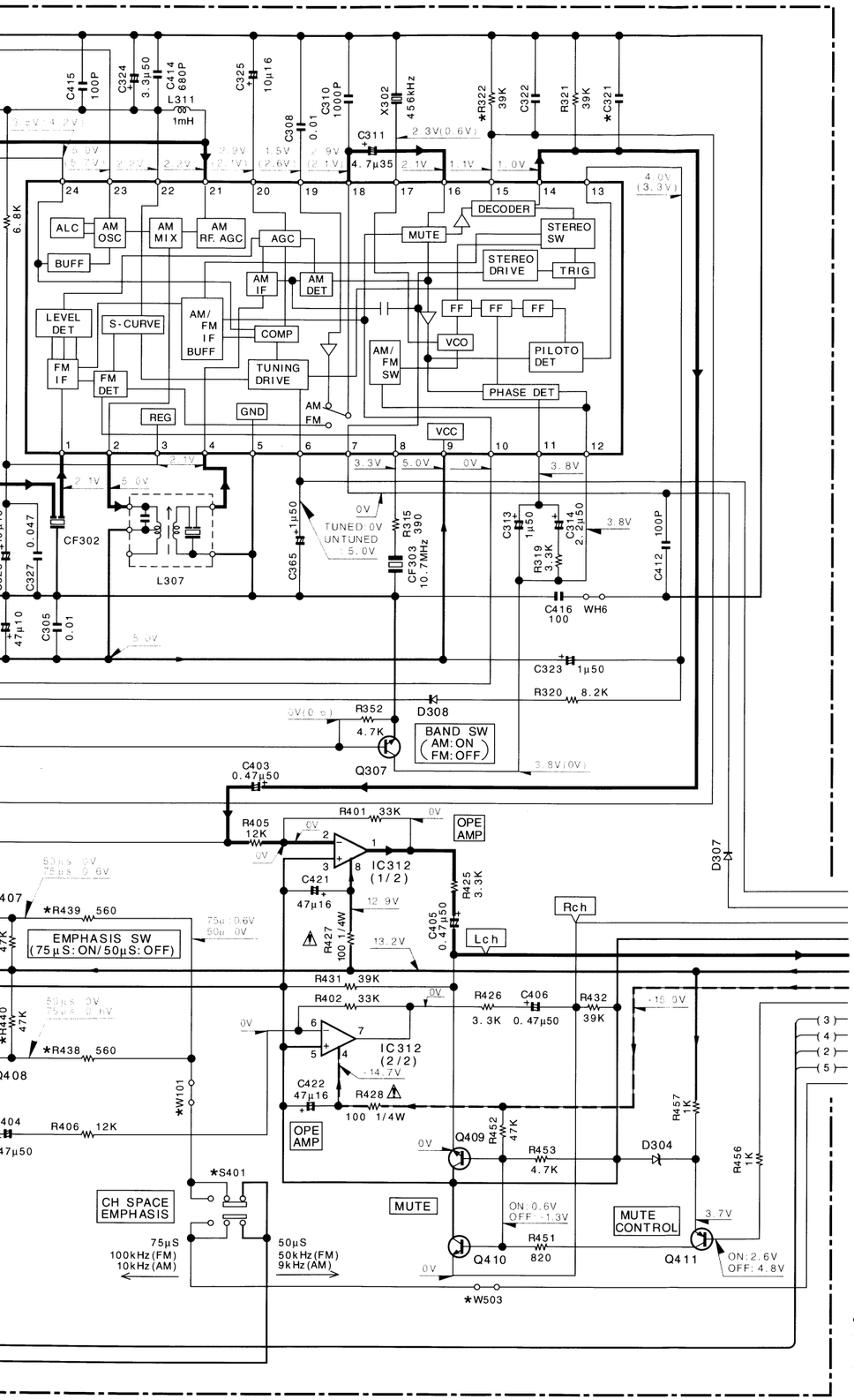

KR-V7080/V8080 (1/5)

IC301	: LA1831A-KEN
IC302	: LC7218
IC312	: NJM4565D
Q301	: 2SC2714(R, O)
Q302	: 2SC1845(F, E)
Q303	: 2SC2458(Y. GR) or 2SC3311A(Q, R)
Q307, 407, 408	: 2SC4081(R, S) or 2SC4116(Y, GR)
Q311	: 2SC3940A(R, S) or 2SD863(E, F)
Q402, 404, 411	: 2SA1576A(R, S) or 2SA1586(Y. GR)
Q409, 410	: 2SD1757K
D303	: RD5. 1ES(B2) or HZS5. 1N(B2)
D304	: RD3. 3ES(B2) or HZS3. 3N(B2)
D307, 308	: 1SS133 or HSS104
D310, 411, 412	: MA111
D311	: RD8. 2ES(B2) or HZS8. 2N(B2)

MODEL NAME	DESTINATION		UNIT NO.	C321, C322,	R438~R441, C425, C438 Q407, Q408, S401, W101, W503
	COUNTRY	ABB.			
KR-V7080	U. S. A. CANADA	K P	20-10	0. 024	NO
	AUSTRALIA	X	20-71	0. 016	YES
	PX	Y	20-21		
	GENERAL MARKET CHINA	M C			
KR-V8080	U. S. A. CANADA	K P	20-11	0. 024	NO

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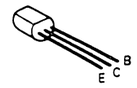
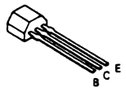
MODE	CARRIER	MODULATION		ANT INPUT
		FREQUENCY	DEVIATION	
FM	98MHz	1kHz	STEREO 67.5kHz 7.5kHz(Pilot)	60dB
AM	1000(999)kHz	400Hz	MONO 30% MOD	60dB

2SA1123
2SA1534A
2SA992
2SC1845
2SC2003
2SC2631

2SC2878
2SC3940A
2SD863



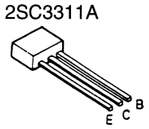
DTC124ES
2SA1048
2SC2458



DTC124EU
2SA1586
2SC2714
2SC4081
2SC4116
2SD1757K

2SB1370
2SD2061

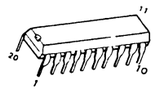
UN4212
UN4219
2SA1309A
2SC3311A



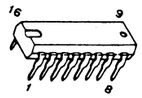
2SB1375
2SD2012

2SB1559
2SD2389

TDA7315



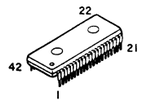
SAA6579



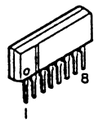
M5223P
NJM4580D-D
NJM4580L-D

UN5

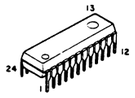
LA2786



NJM4565L-D



LC7218
LV1015



NJU7311
NJU7312

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TO X14
TO X90
A 3/5

KR-V7080/V8080

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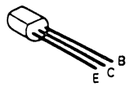
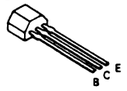
2SA1534A
2SA992
2SC1845
2SC2003
2SC2631
2SC2878
2SC3940A
2SD863

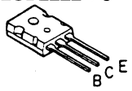


DTC124ES
2SA1048
2SC2458



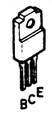
DTC124EU
2SA1586
2SC2714
2SC4081
2SC4116
2SD1757K

2SB1470 *5
2SC4137F50
2SD2222 *5

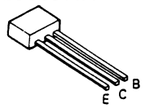


IC301	: LA1831A-KEN
IC302	: LC7218
IC312	: NJM4565D
Q301	: 2SC2714(R, O)
Q302	: 2SC1845(F, E)
Q303	: 2SC2458(Y. GR) or 2SC3311A(Q, R)
Q307, 407, 408	: 2SC4081(R, S) or 2SC4116(Y, GR)
Q311	: 2SC3940A(R, S) or 2SD863(E, F)
Q402, 404, 411	: 2SA1576A(R, S) or 2SA1586(Y. GR)
Q409, 410	: 2SD1757K
D303	: RD5. 1ES(B2) or HZS5. 1N(B2)
D304	: RD3. 3ES(B2) or HZS3. 3N(B2)
D307, 308	: 1SS133 or HSS104
D310, 411, 412	: MA111
D311	: RD8. 2ES(B2) or HZS8. 2N(B2)

2SB1370
2SD2061

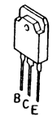


UN4212
UN4219
2SA1309A
2SC3311A

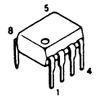


2SB1375
2SD2012

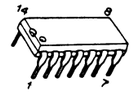
2SB1559
2SD2389



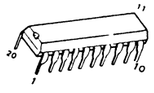
NJM4565D



NJM2279D



TDA7315



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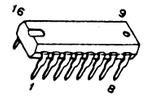
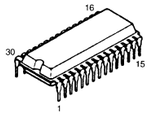


M5223P
NJM4580D-D
NJM4580L-D

UN5212

LA1836



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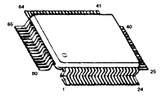
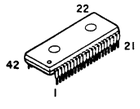
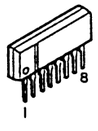


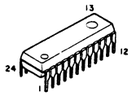
LA2786



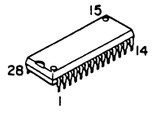
NJM4565L-D



LC7218
LV1015



NJU7311AL
NJU7312AL



MODEL NAME	DESTINATION		UNIT NO.	C321, C322,	R438~R441, C425, C438 Q407, Q408, S401, W101, W503
	COUNTRY	ABB.			
KR-V7080	U. S. A. CANADA	K P	20-10	0. 024	NO
	AUSTRALIA	X	20-71	0. 016	YES
	PX	Y	20-21		
	GENERAL MARKET CHINA	M C			
KR-V8080	U. S. A. CANADA	K P	20-11	0. 024	NO

SIGNAL LINE
GND LINE
+B LINE
-B LINE

-V7080/V8080 (1/5)

Y05-3090-10

KR-V7080/V8080

KENWOOD

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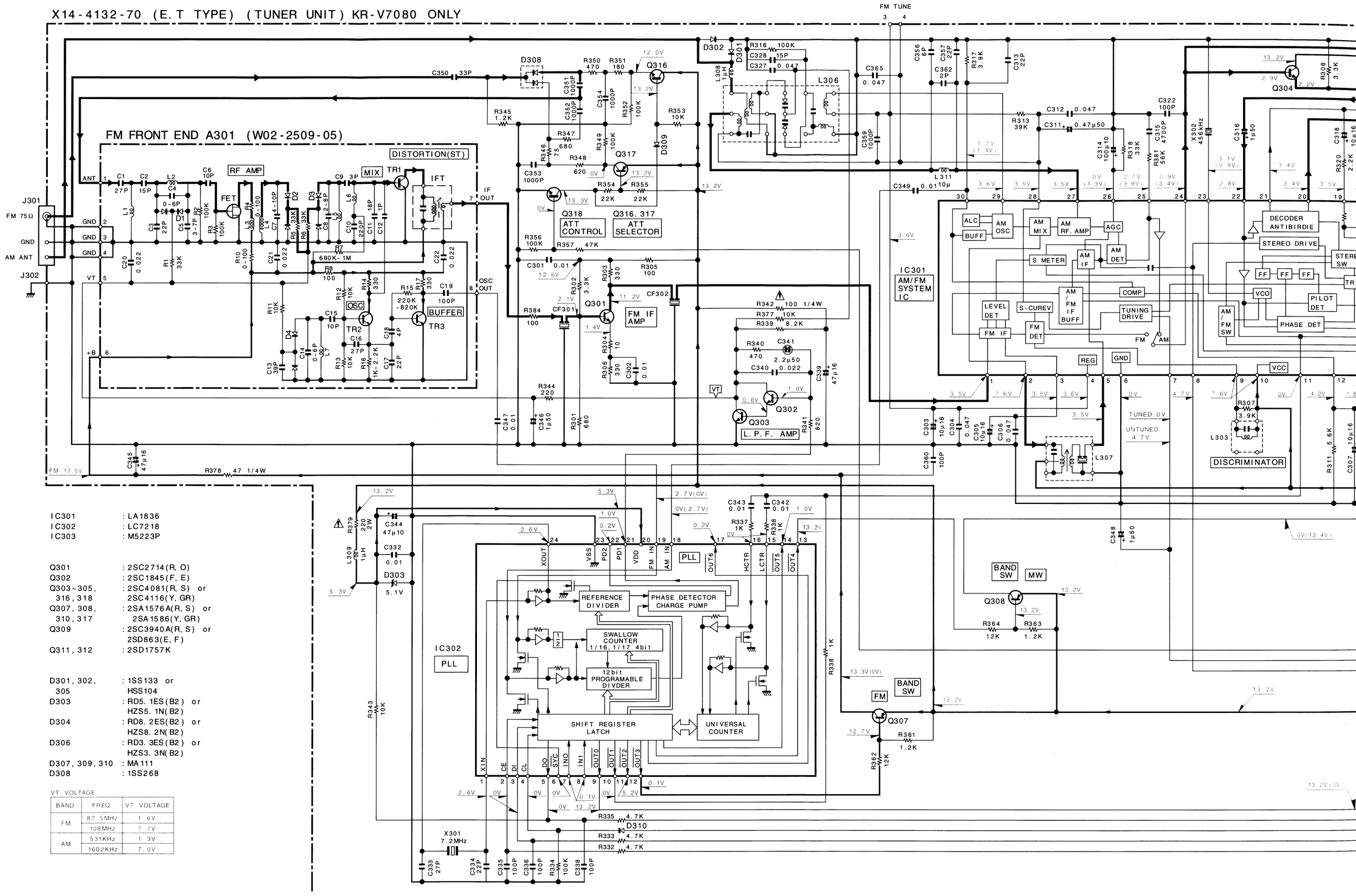

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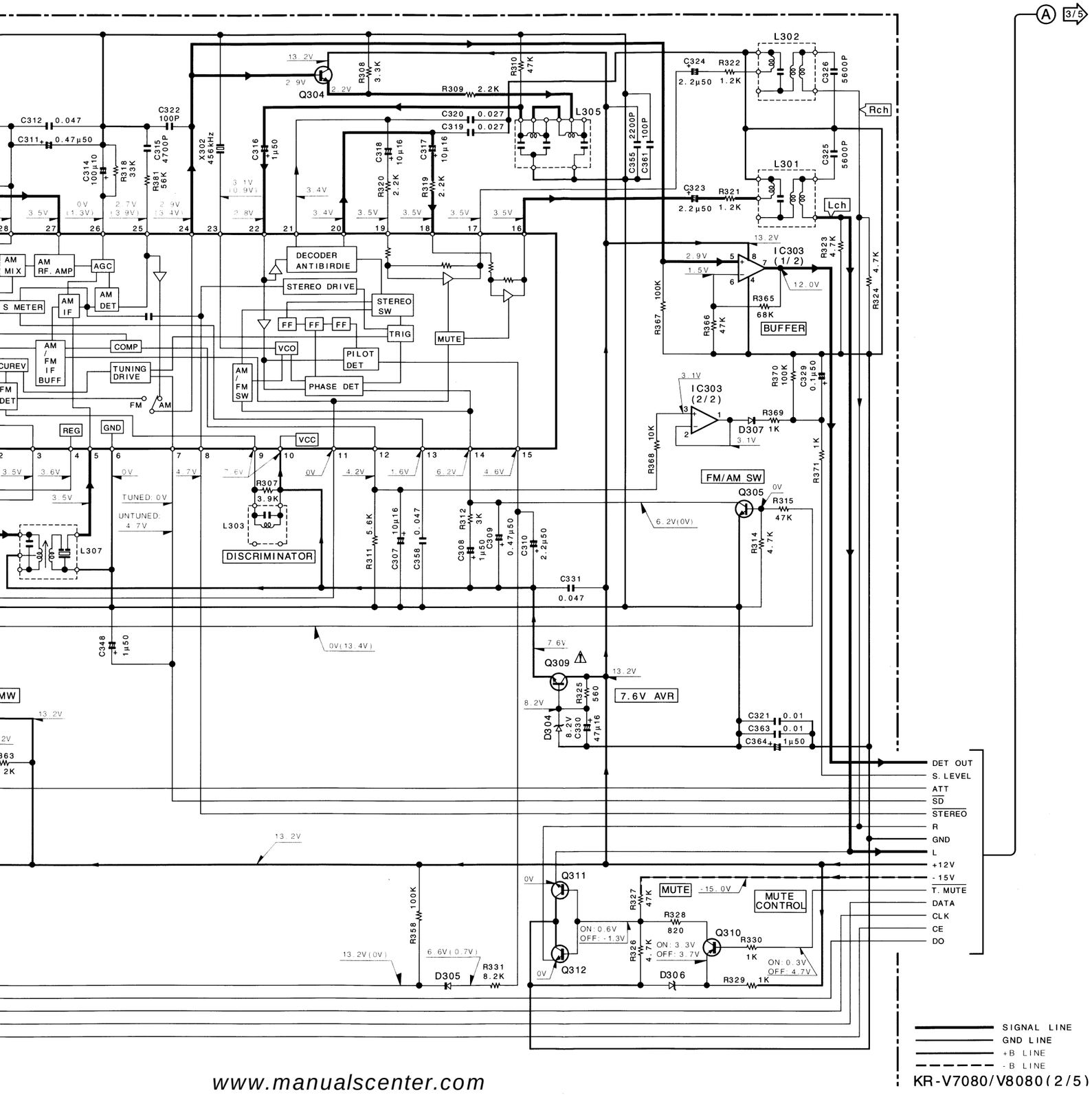

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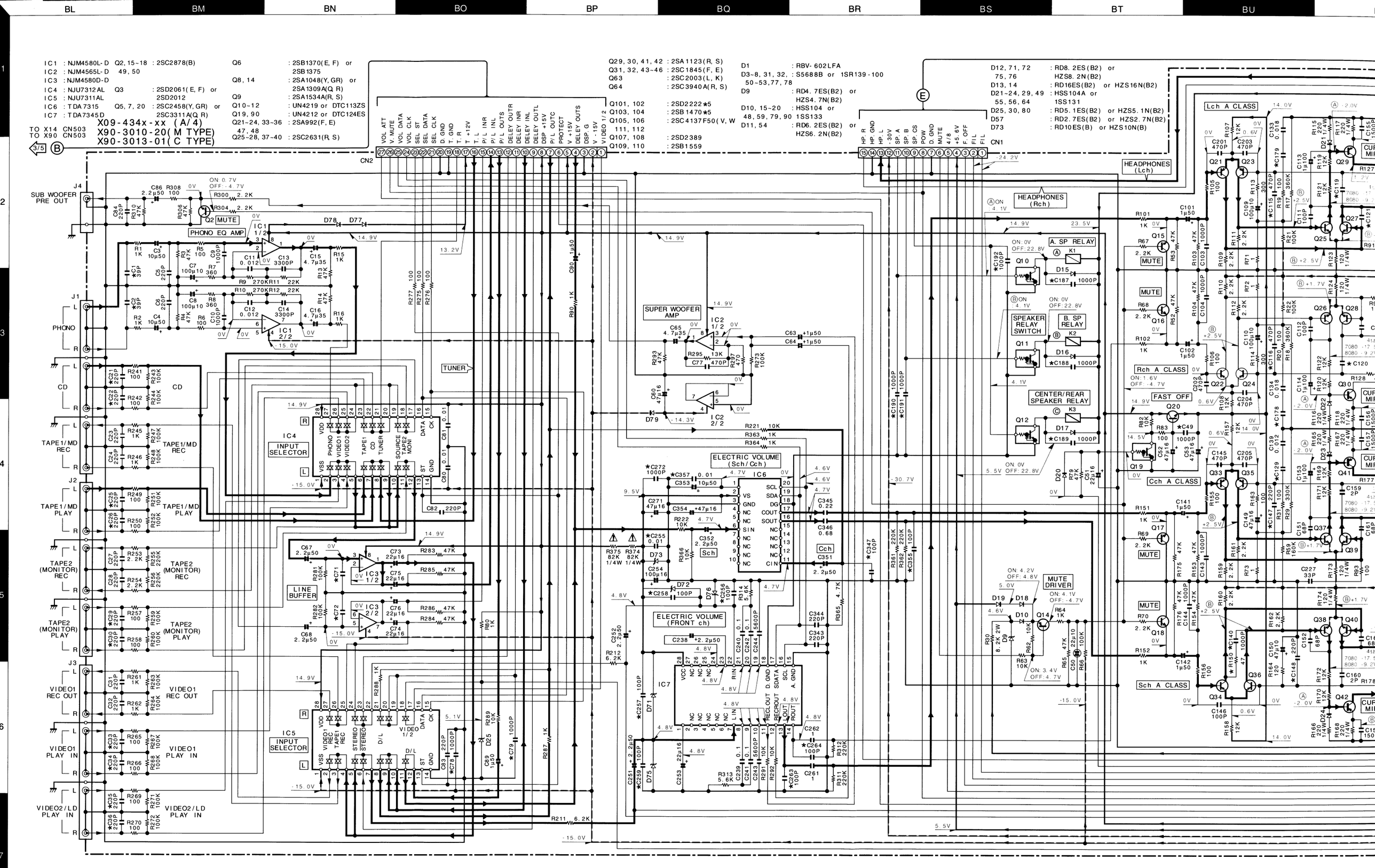

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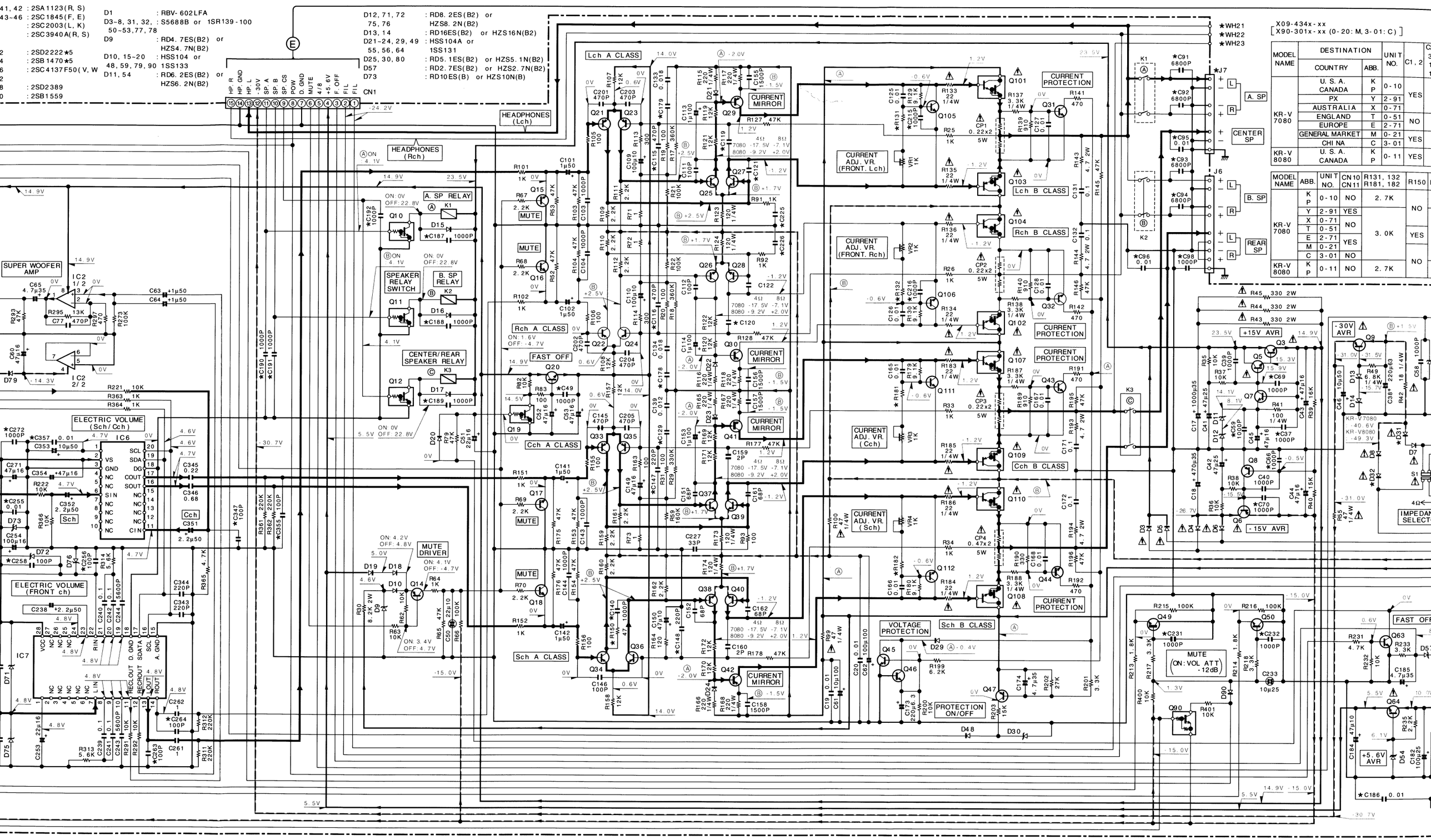

X09-434x-xx
[X90-301x-xx (0-20: M, 3-01: C)]

MODEL NAME	DESTINATION COUNTRY	DESTINATION ABB.	UNIT NO.	C1, 2
KR-V 7080	U. S. A. CANADA	K P	0-10	YES
	PX	Y	2-91	
	AUSTRALIA	X	0-71	
	ENGLAND	T	0-51	NO
	EUROPE	E	2-71	
	GENERAL MARKET	M	0-21	YES
	CHI NA	C	3-01	
KR-V 8080	U. S. A. CANADA	K P	0-11	YES

MODEL NAME	ABB.	UNIT NO.	CN10 CN11	R131, 132 R181, 182	R150
KR-V 7080	K P	0-10	NO	2.7K	NO
	Y	2-91	YES	3.0K	
	X	0-71	NO		YES
	T	0-51			
	E	2-71	YES		
	M	0-21			
	C	3-01	NO		NO
KR-V 8080	K P	0-11	NO	2.7K	

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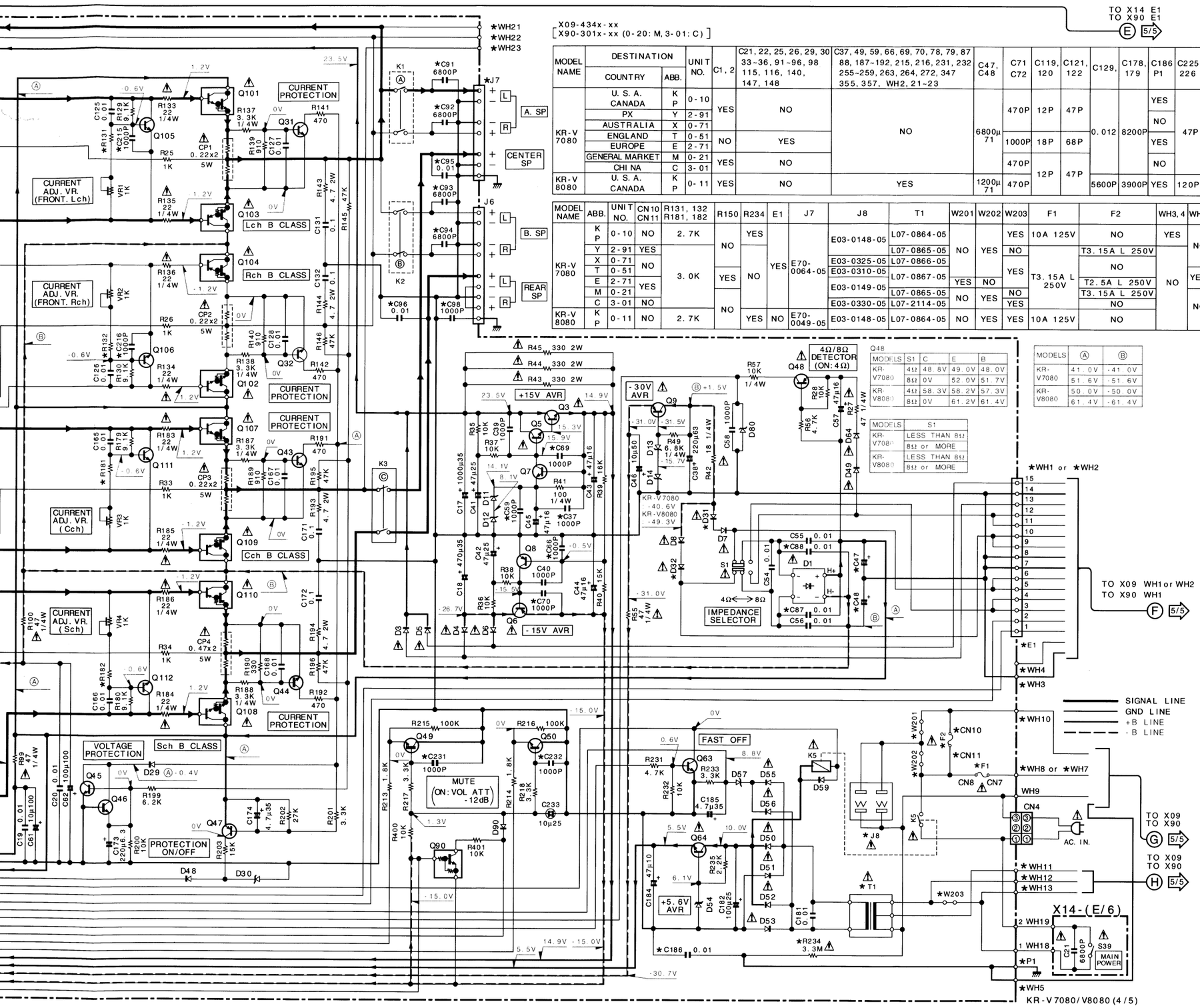

X09-434x-xx
[X90-301x-xx (0-20: M, 3-01: C)]

MODEL NAME	DESTINATION COUNTRY	DESTINATION ABB.	UNIT NO.	C1, 2	C21, 22, 25, 26, 29, 30 33~36, 91~96, 98 115, 116, 140, 147, 148	C37, 49, 59, 66, 69, 70, 78, 79, 87 88, 187~192, 215, 216, 231, 232 255~259, 263, 264, 272, 347 355, 357, WH2, 21~23	C47, C48	C71 C72	C119, 120	C121, 122	C129,	C178, 179	C186 P1	C225, 226	D31, D32
KR-V 7080	U. S. A. CANADA	K P	0-10	YES	NO	NO	6800μ 71	470P	12P	47P	0.012	8200P	YES	47P	YES
	PX	Y	2-91										NO		NO
	AUSTRALIA	X	0-71												
	ENGLAND	T	0-51	NO	YES			1000P	18P	68P			YES		NO
	EUROPE	E	2-71												
	GENERAL MARKET	M	0-21	YES	NO			470P	12P	47P			NO		
	CHINA	C	3-01												
KR-V 8080	U. S. A. CANADA	K P	0-11	YES	NO	YES	1200μ 71	470P			5600P	3900P	YES	120P	YES

MODEL NAME	ABB.	UNIT NO.	CN10 CN11	R131, 132 R181, 182	R150	R234	E1	J7	J8	T1	W201	W202	W203	F1	F2	WH3, 4	WH5	WH7	WH8, 10~13
KR-V 7080	K P	0-10	NO	2.7K	NO	YES	YES	E70-0064-05	E03-0148-05	L07-0864-05	NO	YES	YES	10A 125V	NO	YES	NO	YES	NO
	Y	2-91	YES	3.0K						L07-0865-05			NO	T3.15A L 250V				NO	YES
	X	0-71	NO			NO			E03-0325-05	L07-0866-05			YES	T3.15A L 250V	NO		YES	YES	NO
	T	0-51			YES				E03-0310-05	L07-0867-05									
	E	2-71	YES						E03-0149-05		YES	NO			T2.5A L 250V				
	M	0-21			NO					L07-0865-05	NO	YES	NO		T3.15A L 250V			NO	YES
	C	3-01	NO						E03-0330-05	L07-2114-05			YES		NO			YES	NO
KR-V 8080	K P	0-11	NO	2.7K		YES	NO	E70-0049-05	E03-0148-05	L07-0864-05	NO	YES	YES	10A 125V	NO				

Q48

MODELS	S1	C	E	B
KR-V7080	4Ω	48.8V	49.0V	48.0V
	8Ω	0V	52.0V	51.7V
KR-V8080	4Ω	58.3V	58.2V	57.3V
	8Ω	0V	61.2V	61.4V

MODELS	S1
KR-V7080	LESS THAN 8Ω
	8Ω or MORE
KR-V8080	LESS THAN 8Ω
	8Ω or MORE

MODELS	Ⓐ	Ⓑ
KR-V7080	41.0V	-41.0V
	51.6V	-51.6V
KR-V8080	50.0V	-50.0V
	61.4V	-61.4V

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AM	1000(999)kHz	400Hz	MONO 30% MOD	60dB

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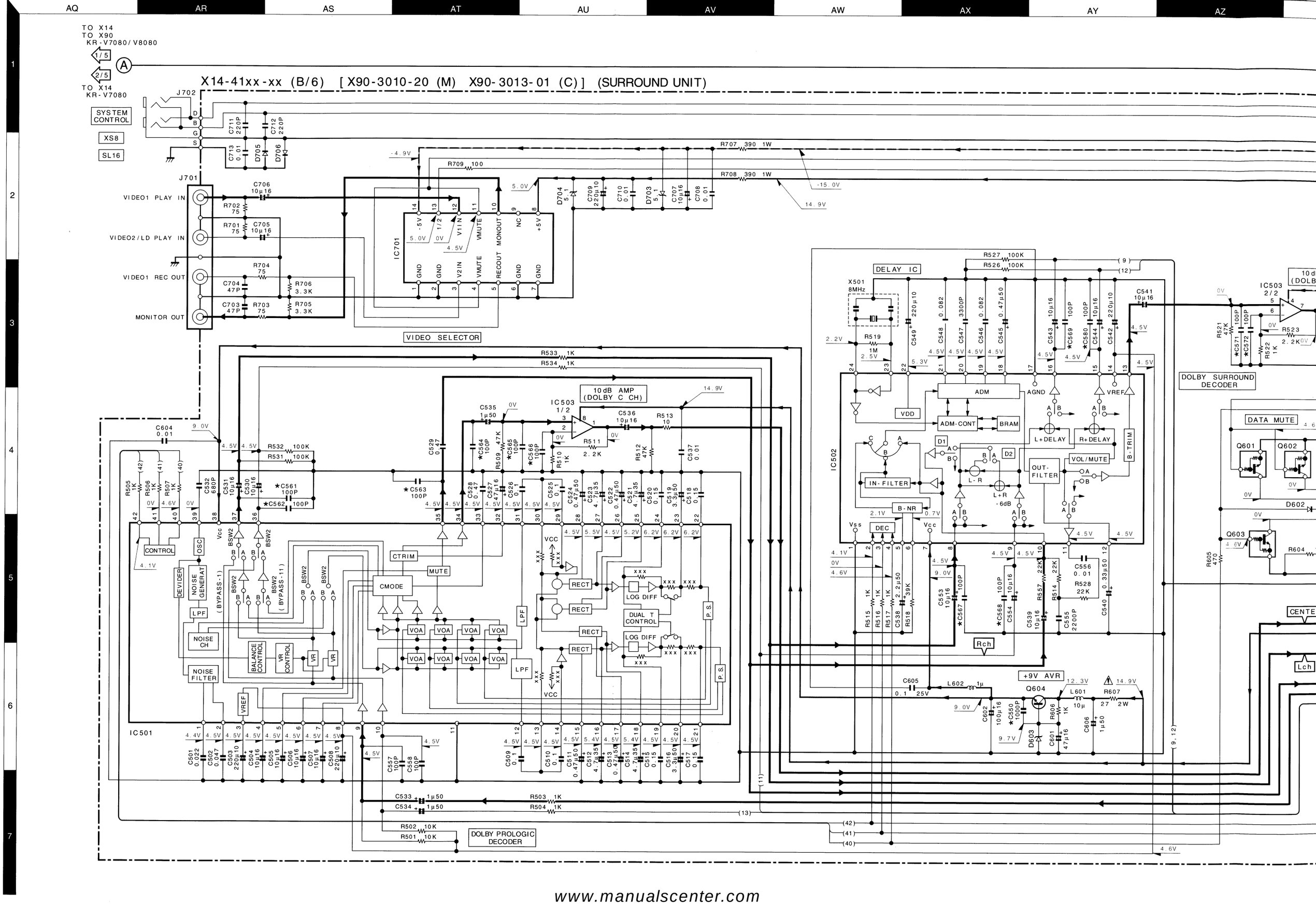
Y05-3090-10

KR-V7080/V8080

KENWOOD



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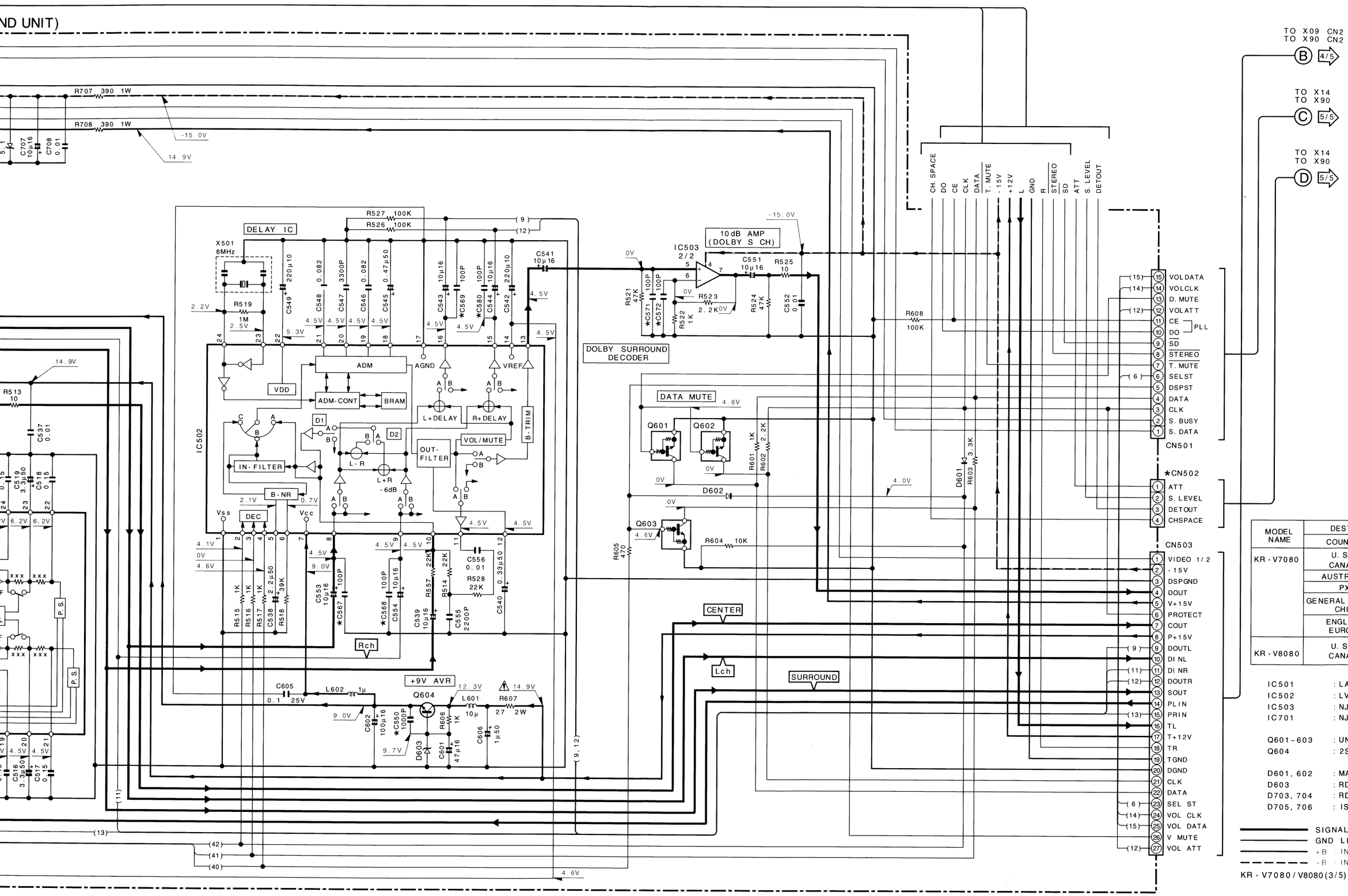

MODEL NAME	DESTINATION		UNIT NO.	CN50
	COUNTRY	ABB.		
KR-V7080	U.S.A. CANADA	K P	20-10	NO
	AUSTRALIA	X	20-71	
	PX	Y	20-21	YES
	GENERAL MARKET CHINA	M C		
	ENGLAND EUROPE	T E	32-70	
KR-V8080	U.S.A. CANADA	K P	20-11	NO

IC501 : LA2786
IC502 : LV1015
IC503 : NJM4565L-D
IC701 : NJM2279D

Q601~603 : UN5212 or DTC124EU
Q604 : 2SC3940A(R.S) or 2SD863(E,

D601, 602 : MA111
D603 : RD10ES(B) or HZS10N(B)
D703, 704 : RD5.1ES(B2) or HZS5.1N(B2)
D705, 706 : ISS133 or HSS104

SIGNAL LINE
GND LINE
+B LINE
-B LINE

KR-V7080/V8080(3/5)

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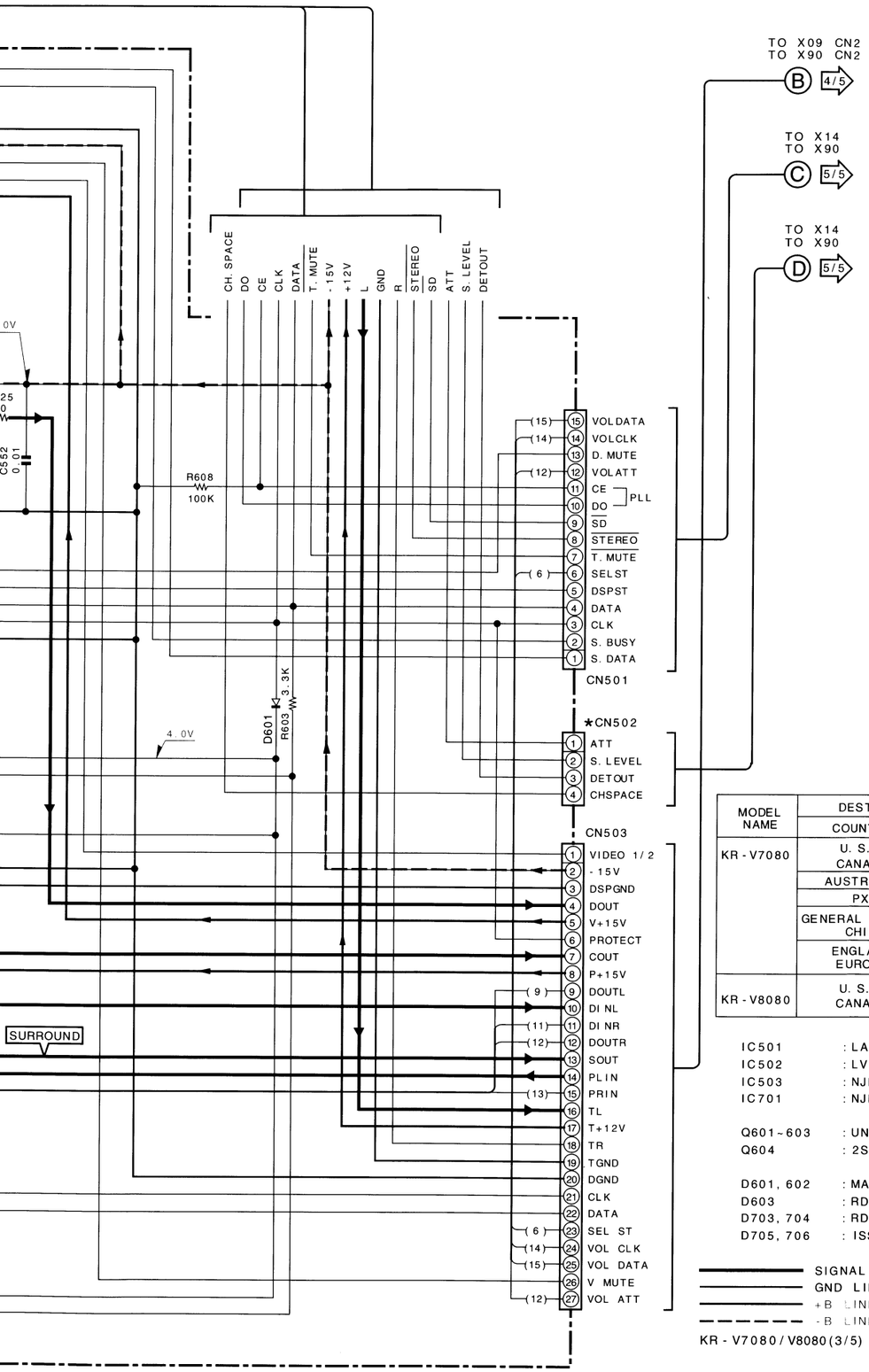

MODEL NAME	DESTINATION		UNIT NO.	CN502	C550, C561~572
	COUNTRY	ABB.			
KR-V7080	U. S. A. CANADA	K P	20-10	NO	YES
	AUSTRALIA	X	20-71	YES	NO
	PX	Y	20-21		
	GENERAL MARKET CHINA	M C			
	ENGLAND EUROPE	T E	32-70		
KR-V8080	U. S. A. CANADA	K P	20-11	NO	YES

IC501 : LA2786
IC502 : LV1015
IC503 : NJM4565L-D
IC701 : NJM2279D

Q601~603 : UN5212 or DTC124EU
Q604 : 2SC3940A(R.S) or 2SD863(E, F)

D601, 602 : MA111
D603 : RD10ES(B) or HZS10N(B)
D703, 704 : RD5.1ES(B2) or HZS5.1N(B2)
D705, 706 : ISS133 or HSS104

SIGNAL LINE
GND LINE
+B LINE
-B LINE

KR-V7080/V8080(3/5)

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 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 mode.

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

Y05-3090-10

KR-V7080/V8080

KENWOOD

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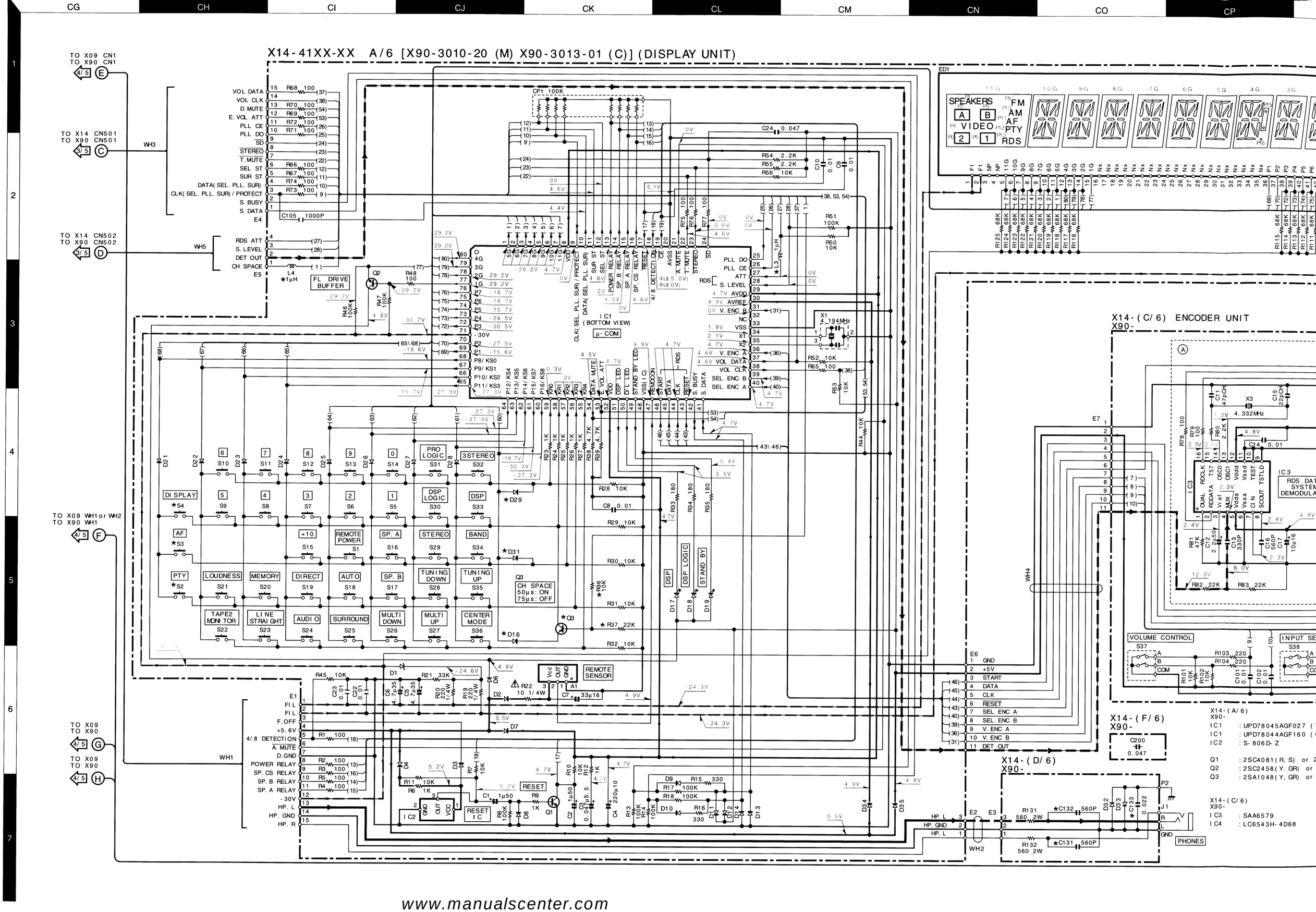

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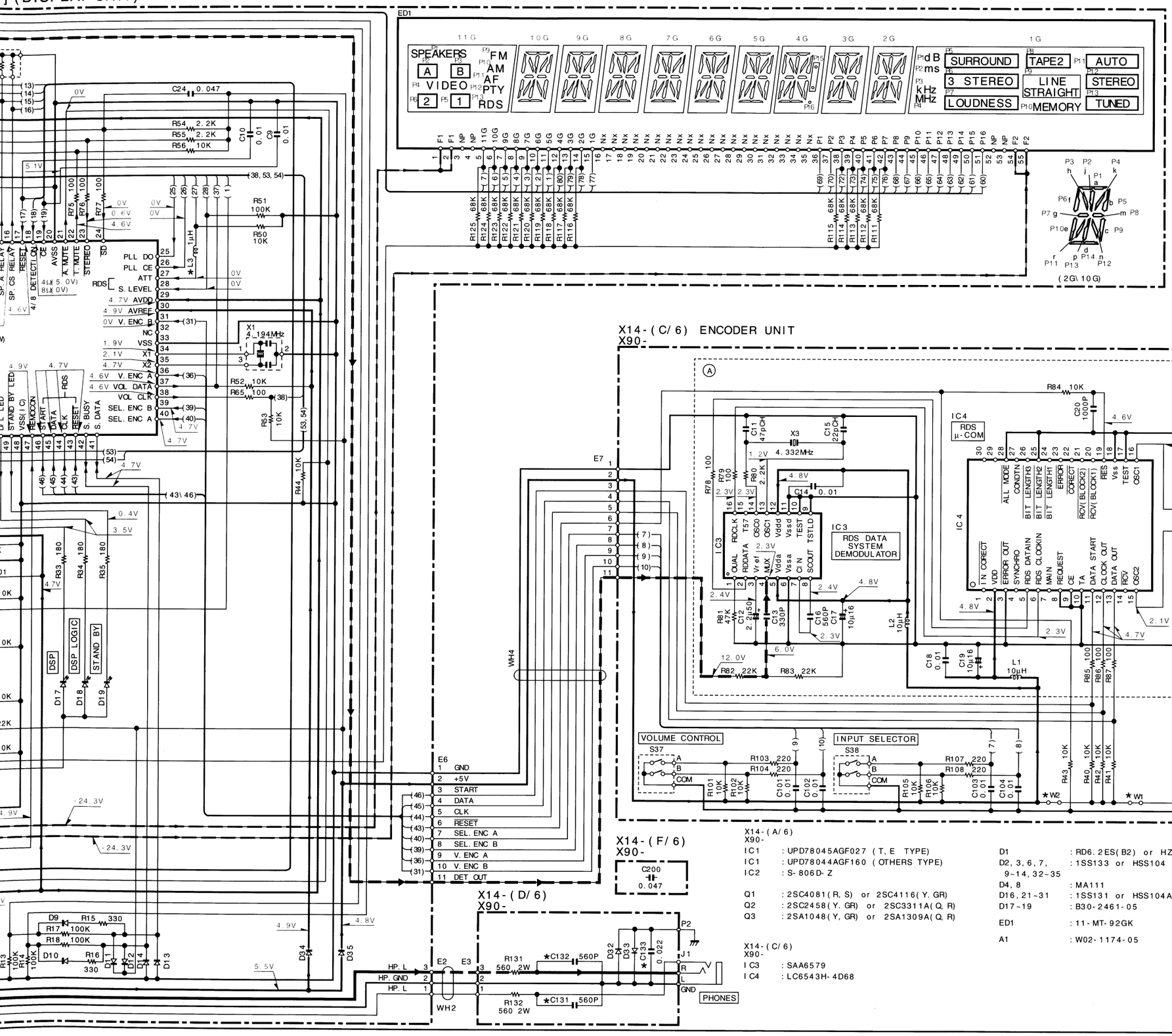
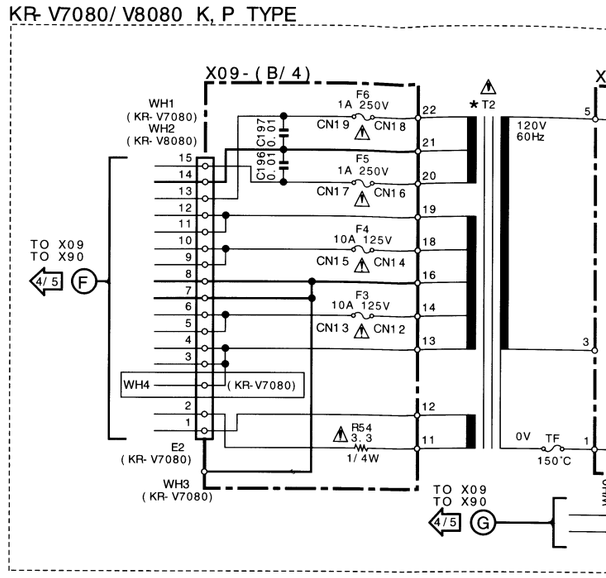
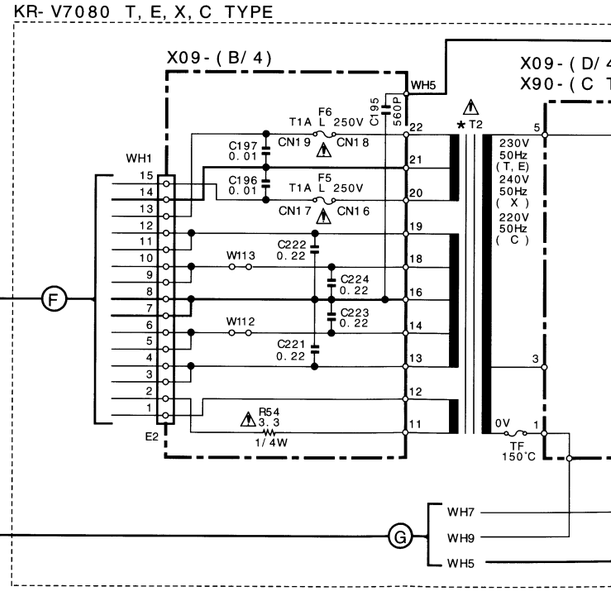
] (DISPLAY UNIT)



KR-V7080/V8080 K, P TYPE



KR-V7080 T, E, X, C TYPE



X14-(A/6)
X90-

IC1	: UPD78045AGF027 (T, E TYPE)	D1	: RD6.2ES(B2) or HZS6.2N(B2)
IC1	: UPD78044AGF160 (OTHERS TYPE)	D2, 3, 6, 7, 9~14, 32~35	: 1SS133 or HSS104
IC2	: S-806D-Z	D4, 8	: MA111
Q1	: 2SC4081(R, S) or 2SC4116(Y, GR)	D16, 21~31	: 1SS131 or HSS104A
Q2	: 2SC2458(Y, GR) or 2SC3311A(Q, R)	D17~19	: B30-2461-05
Q3	: 2SA1048(Y, GR) or 2SA1309A(Q, R)	ED1	: 11-MT-92GK
		A1	: W02-1174-05

X14-(C/6)
X90-

IC3	: SAA6579
IC4	: LC6543H-4D68

X14-41XX-XX(A/6), (C/6)
X90-

MODEL NAME	DESTINATION		UNIT NO.	D29	D31	D16 Q3	R36	R37	Ⓐ	C131 C132	C133
	COUNTRY	ABB.									
KR-V7080	U.S.A. CANADA	K P	20-10	NO	NO	NO	NO	NO	NO	NO	NO
	AUSTRALIA	X	20-71	YES	YES						
	PX	Y	20-21	YES	NO	YES	YES	YES			
	GENERAL MARKET CHINA	M C									
	ENGLAND EUROPE	T E	32-70		YES	NO	NO	NO	YES	YES	YES
KR-V8080	U.S.A. CANADA	K P	20-11	NO	NO				NO	NO	NO

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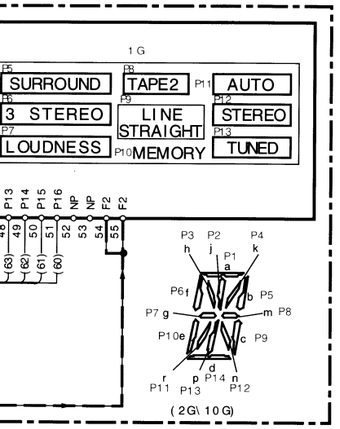
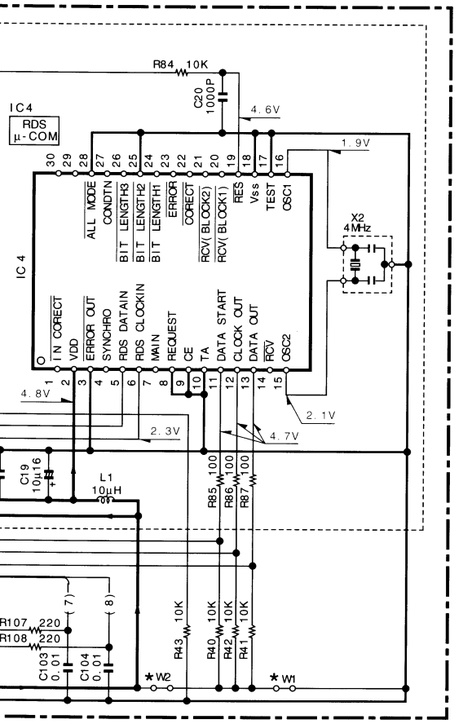
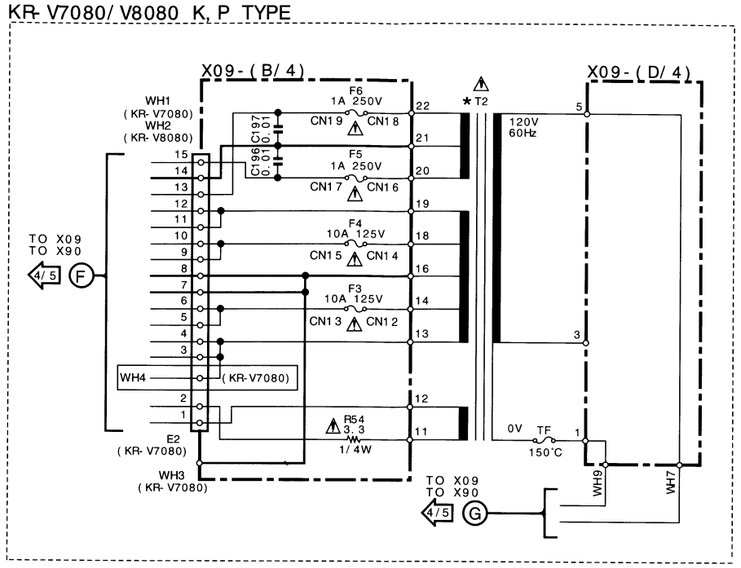


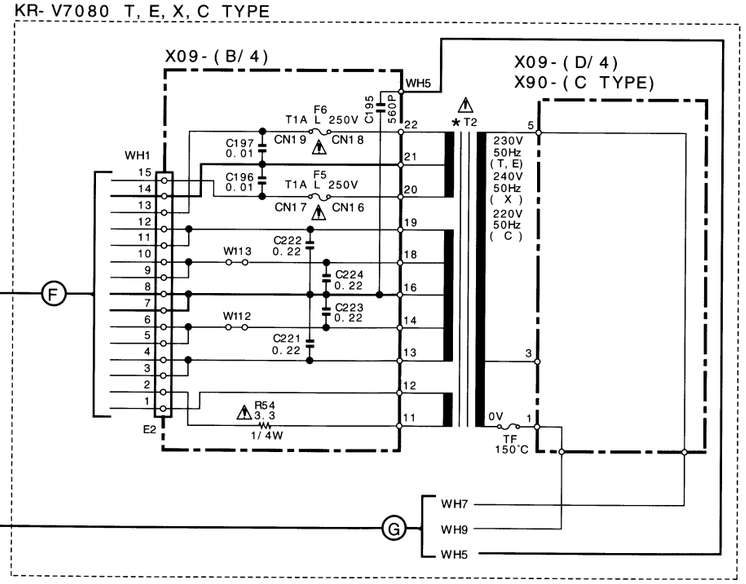


D1 : RD6.2ES(B2) or HZS6.2N(B2)
D2, 3, 6, 7, 9~14, 32~35 : 1SS133 or HSS104
D4, 8 : MA111
D16, 21~31 : 1SS131 or HSS104A
D17~19 : B30-2461-05
ED1 : 11-MT-92GK
A1 : W02-1174-05

KR-V7080/V8080 K, P TYPE



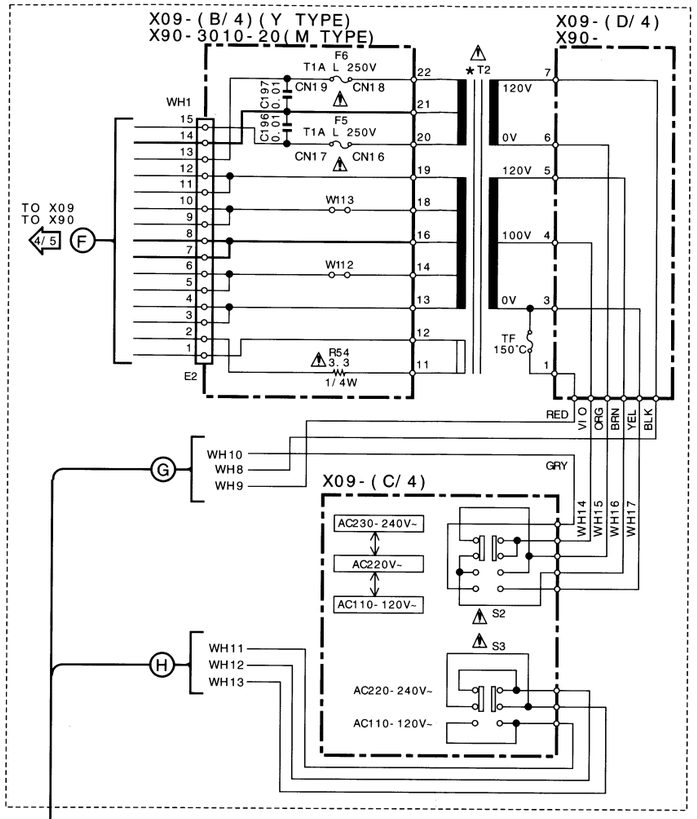
KR-V7080 T, E, X, C TYPE



X14-41XX-XX(A/6), (C/6)
X90-

MODEL NAME	DESTINATION		UNIT NO.	D29	D31	D16 Q3	R36	R37	Ⓐ	C131 C132	C133	S2, 3, 4	W1	W2	L3	L4
	COUNTRY	ABB.														
KR-V7080	U.S.A. CANADA	K P	20-10	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO
	AUSTRALIA	X	20-71	YES	YES											
	PX	Y	20-21	YES	NO	YES	YES	YES								YES
	GENERAL MARKET CHINA	M C														
	ENGLAND EUROPE	T E	32-70		YES	NO	NO	NO	YES	YES	YES	YES	NO	YES	YES	NO
KR-V8080	U.S.A. CANADA	K P	20-11	NO	NO				NO	NO	NO	NO	YES	NO	NO	

KR-V7080 M, Y TYPE



X09-(B/4)(C/4)
X90-(C, M TYPE)

MODEL NAME	DESTINATION		T2
	COUNTRY	ABB.	
KR-V7080	U.S.A. CANADA	K P	L07-2059-05
	AUSTRALIA	X	L07-2061-05
	PX	Y	L07-2060-05
	GENERAL MARKET	M	L07-2146-05
	CHINA	C	L07-2142-05
	ENGLAND EUROPE	T E	L07-2062-05
KR-V8080	U.S.A. CANADA	K P	L07-2063-05

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 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 mode.

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

SIGNAL LINE
GND LINE
+B LINE
-B LINE

KR-V7080/V8080 (5/5)

Y05-3090-10

KR-V7080/V8080

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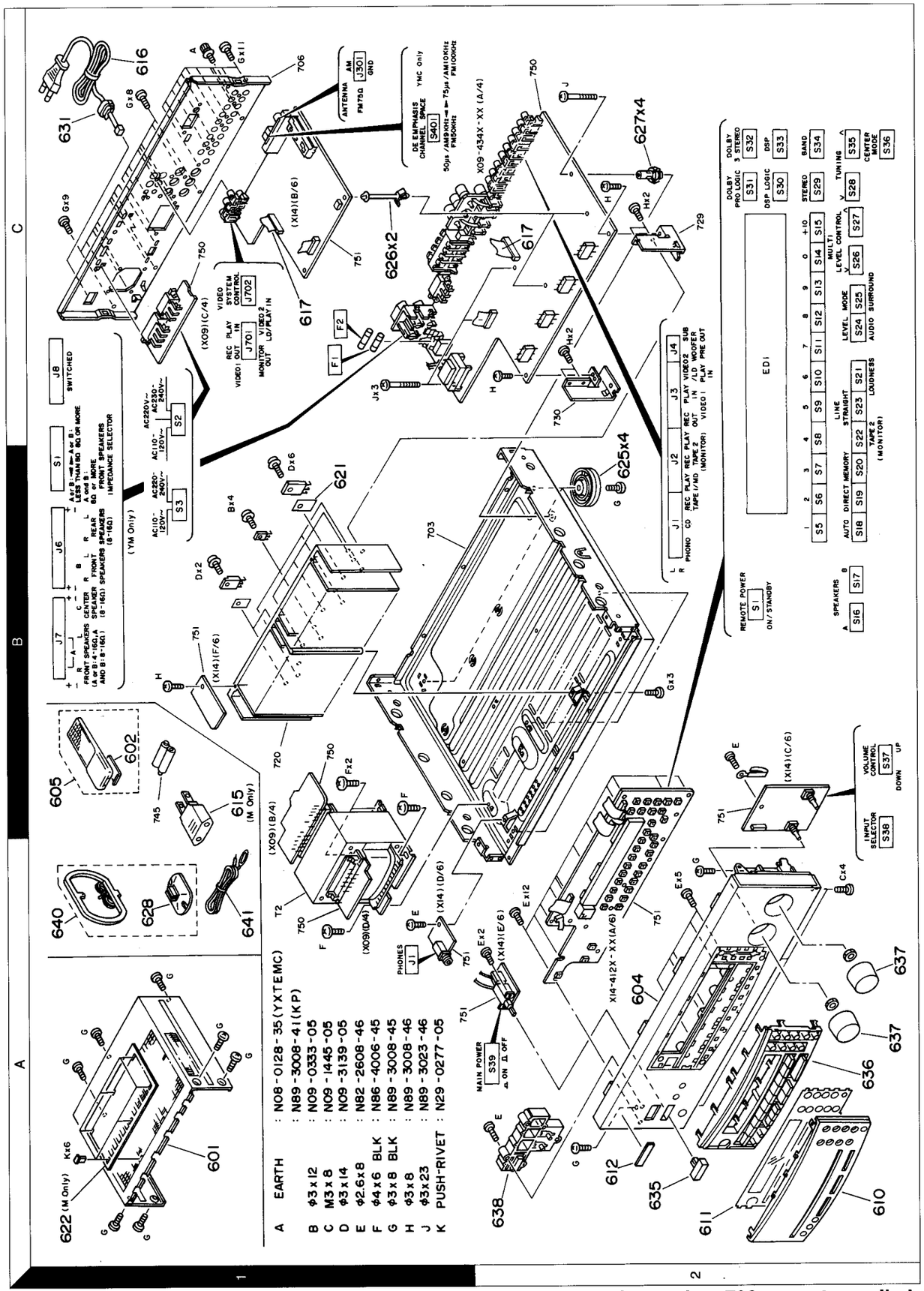
EXPLODED VIEW (UNIT)



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

KR-V7080/V8080 PARTS LIST

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

❶

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
KR-V7080/V8080						
601	1A	∗	A01-3269-01	METALLIC CABINET		
602	1B		A09-0169-08	BATTERY COVER		
604	2A	∗	A60-0791-11	PANEL	KPY	7
604	2A	∗	A60-0792-11	PANEL	XMC	7
604	2A	∗	A60-0793-11	PANEL	TE	7
604	2A	∗	A60-0794-11	PANEL		8
605	1B	∗	A70-1042-05	REMO-CON ASSY (RC-R0803)	KPYXMC	
605	1B	∗	A70-1043-05	REMO-CON ASSY (RC-R0803)	TE	
610	2A	∗	B10-2170-02	FRONT GLASS	KPYXMC	
610	2A	∗	B10-2253-02	FRONT GLASS	TE	
611	2A	∗	B11-0294-02	COLOR FILTER		
612	2A		B43-0302-04	KENWOOD BADGE		
-		∗	B46-0092-43	WARRANTY CARD	KY	
-			B46-0096-53	WARRANTY CARD	X	
-			B46-0121-33	WARRANTY CARD	P	
-			B46-0197-00	QUESTIONAIRE CARD	K	
-			B46-0310-03	WARRANTY CARD	TE	
-		∗	B46-0326-03	WARRANTY CARD	C	
-			B58-0964-13	CAUTION CARD (CAUTION UL)	KY	
-		∗	B58-0965-13	CAUTION CARD (TX TYPE PL)	XT	
-		∗	B58-0966-13	CAUTION CARD (ELM TYPE PL)	EMC	
-		∗	B58-0967-03	CAUTION CARD (P TYPE PL)	P	
-		∗	B58-0968-04	CAUTION CARD	Y	
-			B59-1104-00	SERVICE DIRECTORY	Y	
-		∗	B60-2485-00	I.MANUAL (KR-V7080/V8080 EN)	KPYXMC	
-		∗	B60-2486-00	I.MANUAL (KR-V7080 EN)	T	
-		∗	B60-2487-00	I.MANUAL (KR-V7080/V8080 FR)	P	
-		∗	B60-2488-00	I.MANUAL (KR-V7080 FR/D)	E	
-		∗	B60-2489-00	I.MANUAL (KR-V7080 IT/SP)	E	
-		∗	B60-2490-00	I.MANUAL (KR-V7080 SP)	M	
-		∗	B60-2491-00	I.MANUAL (KR-V7080 G)	E	
-		∗	B60-2492-00	I.MANUAL (KR-V7080 C)	MC	
-		∗	B60-2493-00	I.MANUAL (KR-V7080 TAIWAN)	M	
615	1B		E03-0115-05	AC PLUG ADAPTER	M	
⚠ 616	1C		E30-2592-15	AC POWER CORD	M	
⚠ 616	1C		E30-2739-05	AC POWER CORD	Y	
⚠ 616	1C		E30-2787-05	AC POWER CORD	KP	
⚠ 616	1C		E30-2788-05	AC POWER CORD	E	
⚠ 616	1C		E30-2790-05	AC POWER CORD	X	
⚠ 616	1C		E30-2791-05	AC POWER CORD	T	
⚠ 616	1C		E30-2825-05	AC POWER CORD	C	
617	1C,2C	∗	E35-1319-05	FLAT CABLE(27P/X09CN2-X14CN503		
621	1B		F20-1322-15	INSULATING BOARD		
622	1A	∗	F20-1472-03	INSULATING BOARD	M	
		∗	H50-1736-04	ITEM CARTON CASE		8
		∗	H50-1749-04	ITEM CARTON CASE	KPYXE	7
		∗	H50-1750-04	ITEM CARTON CASE	M	7
		∗	H50-1751-04	ITEM CARTON CASE	T	7
		∗	H50-1752-04	ITEM CARTON CASE	C	7
-		∗	H10-7126-12	POLYSTYRENE FOAMED FIXTURE (L)	KPYXE	
-		∗	H10-7126-12	POLYSTYRENE FOAMED FIXTURE (L)	MC	
-		∗	H10-7127-12	POLYSTYRENE FOAMED FIXTURE (R)	KPYXE	

L : Scandinavia **K** : USA **P** : Canada **C** : China **7** : KR-V7080
Y : PX(Far East, Hawaii) **T** : Europe **E** : Europe **8** : KR-V8080
Y : AAFES(Europe) **X** : Australia **M** : Other Areas

⚠ indicates safety critical components.

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❷

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
-		∗	H10-7127-12	POLYSTYRENE FOAMED FIXTURE (R)	MC	
-		∗	H10-7128-12	POLYSTYRENE FOAMED FIXTURE (L)	T	
-		∗	H10-7129-12	POLYSTYRENE FOAMED FIXTURE (R)	T	
-			H13-0223-04	CARTON BOARD	X	
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	KPYXE	
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	MC	
-			H25-0651-04	PROTECTION BAG (0232 PRINTED)	T	
-			H25-0661-04	PROTECTION BAG		
625	2B	∗	J02-1148-13	FOOT (D=46,H=14.5)		
626	1C		J19-3385-05	UNIT HOLDER		
627	2C	∗	J19-3731-04	UNIT HOLDER		
628	1A		J19-3645-05	LOOP ANTENNA STAND		
⚠ 631	1C		J42-0083-05	POWER CORD BUSHING		
-			J19-2808-05	HOLDER		
-			J61-0098-05	WIRE BAND		
-			J61-0307-05	WIRE BAND	MC	
635	2A		K27-2176-04	KNOB (MAIN POWER)		
636	2A	∗	K29-6246-12	KNOB		
637	2A	∗	K29-6247-04	KNOB (INPUT SEL/VOLUME)		
638	2A	∗	K29-6282-02	KNOB (REMOTE POWER)	KPYXMC	
638	2A	∗	K29-6284-02	KNOB (REMOTE POWER)	TE	
T2	1A	∗	L07-2059-05	POWER TRANSFORMER	KP	7
⚠ T2	1A	∗	L07-2060-05	POWER TRANSFORMER	Y	
⚠ T2	1A	∗	L07-2061-05	POWER TRANSFORMER	X	
⚠ T2	1A	∗	L07-2062-05	POWER TRANSFORMER	TE	
T2	1A	∗	L07-2063-05	POWER TRANSFORMER	KP	8
⚠ T2	1A	∗	L07-2142-05	POWER TRANSFORMER	C	
⚠ T2	1A	∗	L07-2146-05	POWER TRANSFORMER	M	
640	1A		T90-0195-05	LOOP ANTENNA		
641	1A		T90-0810-05	LEAD WIRE ANTENNA		
AUDIO UNIT (X09-434X-XX)						
C1,2			CC45FSL1H390J	CERAMIC 39PF J	KPYXMC	
C3,4			CE04KW1H100M	ELECTRO 10UF 50WV		
C5,6			CC45FSL1H221J	CERAMIC 220PF J		
C7,8			CE04KW1A101M	ELECTRO 100UF 10WV		
C9,10			CK45FB1H102K	CERAMIC 1000PF K		
C11 ,12			CQ93FMG1H123J	MYLAR 0.012UF J		
C13 ,14			CQ93FMG1H332J	MYLAR 3300PF J		
C15 ,16			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
C17			CE04DW1V102M	ELECTRO 1000UF 35WV		
C18			CE04DW1V471M	ELECTRO 470UF 35WV		
C19 ,20			CK45FE2H103P	CERAMIC 0.010UF P		
C21 ,22			C91-0749-05	CERAMIC 220PF K	TE	
C23 ,24			C91-0749-05	CERAMIC 220PF K		
C25 ,26			C91-0749-05	CERAMIC 220PF K	TE	
C27 ,28			C91-0749-05	CERAMIC 220PF K		
C29 ,30			C91-0749-05	CERAMIC 220PF K	TE	
C31 ,32			C91-0749-05	CERAMIC 220PF K		
C33 -36			C91-0749-05	CERAMIC 220PF K	TE	
C37			CQ93FMG1H102J	MYLAR 1000PF J		8
C38			CE04KW1J221M	ELECTRO 220UF 63WV		
C39 ,40			CK45FB1H102K	CERAMIC 1000PF K		
C41 ,42			CE04KW1E470M	ELECTRO 47UF 25WV		

L : Scandinavia **K** : USA **P** : Canada **C** : China **7** : KR-V7080
Y : PX(Far East, Hawaii) **T** : Europe **E** : Europe **8** : KR-V8080
Y : AAFES(Europe) **X** : Australia **M** : Other Areas

⚠ indicates safety critical components.

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* New Parts
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❸

Ref. No	Add-ress	New Parts	Parts No.	Description			Desti-nation	Re-marks
C43 -45			CE04KW1C470M	ELECTRO	47UF	16WV		
C46			CE04KW1H100M	ELECTRO	10UF	50WV		
C47 ,48			C90-3536-05	ELECTRO	6800UF	71WV		7
C47 ,48		*	C90-3602-05	ELECTRO	1200UF	71WV		8
C49			CQ93FMG1H102J	MYLAR	1000PF	J		8
C50			CE04HW1A220M	NP-ELEC	22UF	10WV		
C51			CE04KW1C220M	ELECTRO	22UF	16WV		
C52 ,53			CE04KW1C470M	ELECTRO	47UF	16WV		
C54 -56			CK45FE2H103P	CERAMIC	0.010UF	P		
C57			CE04KW1C470M	ELECTRO	47UF	16WV		
C58			CK45FB1H102K	CERAMIC	1000PF	K		
C59			CQ93FMG1H102J	MYLAR	1000PF	J		8
C60			CE04KW1C470M	ELECTRO	47UF	16WV		
C61			CE04KW2A100M	ELECTRO	10UF	100WV		
C62			CE04KW2A101M	ELECTRO	100UF	100WV		
C63 ,64			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C65			CE04KW1V4R7M	ELECTRO	4.7UF	35WV		
C66			CQ93FMG1H102J	MYLAR	1000PF	J		8
C67 ,68			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C69 ,70			CQ93FMG1H102J	MYLAR	1000PF	J		8
C71 ,72			CK45FB1H102K	CERAMIC	1000PF	K	TE	7
C71 ,72			CK45FB1H471K	CERAMIC	470PF	K	KPYXMC	7
C71 ,72			CQ93FMG1H471J	MYLAR	470PF	J		8
C73 -76			CE04KW1C220M	ELECTRO	22UF	16WV		
C77			CK45FB1H471K	CERAMIC	470PF	K		
C78 ,79			CQ93FMG1H102J	MYLAR	1000PF	J		8
C80 ,81			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C82 ,83			CC45FSL1H221J	CERAMIC	220PF	J		
C84			C91-0749-05	CERAMIC	220PF	K		
C86			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C87 ,88			CK45FE2H103P	CERAMIC	0.010UF	P		8
C89 ,90			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C91 -94			CQ93FMG1H682J	MYLAR	6800PF	J	TE	
C95 ,96			CK45FF1H103Z	CERAMIC	0.010UF	Z	TE	
C98			CK45FB1H102K	CERAMIC	1000PF	K	TE	
C101,102			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C103,104			CQ93FMG1H102J	MYLAR	1000PF	J		
C109,110			CE04KW1A101M	ELECTRO	100UF	10WV		
C111,112			CC45FSL1H101J	CERAMIC	100PF	J		
C113,114			CE04KW2A010M	ELECTRO	1.0UF	100WV		
C115,116			CK45FB1H471K	CERAMIC	470PF	K	TE	
C119,120			CC45FSL1H120J	CERAMIC	12PF	J	KPYXMC	
C119,120			CC45FSL1H180J	CERAMIC	18PF	J	TE	
C121,122			CC45FSL2H470J	CERAMIC	47PF	J	KPYXMC	
C121,122			CC45FSL2H680J	CERAMIC	68PF	J	TE	
C125-128			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C129			CQ93FMG1H123J	MYLAR	0.012UF	J		7
C129			CQ93FMG1H562J	MYLAR	5600PF	J		8
C131,132			CQ93FMG1H104J	MYLAR	0.10UF	J		
C133,134			CQ93FMG1H183J	MYLAR	0.018UF	J		
C139			CQ93FMG1H123J	MYLAR	0.012UF	J		
C140			CK45FB1H102K	CERAMIC	1000PF	K	TE	
C141,142			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C143,144			CQ93FMG1H102J	MYLAR	1000PF	J		
C145			CK45FB1H471K	CERAMIC	470PF	K		

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❹

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C146			CC45FSL1H101J	CERAMIC	100PF	J		
C147,148			CC45FSL1H221J	CERAMIC	220PF	J	TE	
C149,150			CE04KW1A470M	ELECTRO	47UF	10WV		
C151,152			CC45FSL1H680J	CERAMIC	68PF	J		
C153			CE04KW2A010M	ELECTRO	1.0UF	100WV		
C155-158			CK45FB1H152K	CERAMIC	1500PF	K		
C159,160			CC45FSL1H020C	CERAMIC	2.0PF	C		
C161,162			CC45FSL2H680J	CERAMIC	68PF	J		
C165-168			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C171,172			CQ93FMG1H104J	MYLAR	0.10UF	J		
C173			CE04KW0J221M	ELECTRO	220UF	6.3WV		
C174			CE04KW1V4R7M	ELECTRO	4.7UF	35WV		
C178,179			CQ93FMG1H392J	MYLAR	3900PF	J		8
C178,179			CQ93FMG1H822J	MYLAR	8200PF	J		7
C181			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C182			CE04KW1E101M	ELECTRO	100UF	25WV		
C184			CE04KW1A470M	ELECTRO	47UF	10WV		
C185			CE04KW1V4R7M	ELECTRO	4.7UF	35WV		
C186			CK45FF1H103Z	CERAMIC	0.010UF	Z	KPTE	
C187-192			CQ93FMG1H102J	MYLAR	1000PF	J		8
C195			CK45FB1H561K	CERAMIC	560PF	K	TE	
C196,197			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C201-204			CK45FB1H471K	CERAMIC	470PF	K		
C205			CQ93FMG1H471J	MYLAR	470PF	J		
C215,216			CQ93FMG1H102J	MYLAR	1000PF	J		8
C221-224			C91-1480-05	MP	0.22UF	250WV	TE	
C225,226			CC45FSL2H121J	CERAMIC	120PF	J		8
C225,226			CC45FSL2H470J	CERAMIC	47PF	J		7
C227			CC45FSL2H330J	CERAMIC	33PF	J		
C231,232			CQ93FMG1H102J	MYLAR	1000PF	J		8
C233			CE04HW1E100M	NP-ELEC	10UF	25WV		
C238			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C239-242			CQ93FMG1H104J	MYLAR	0.10UF	J		
C243,244			CQ93FMG1H562J	MYLAR	5600PF	J		
C251,252			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C253			CE04KW1C220M	ELECTRO	22UF	16WV		
C254			CE04KW1C101M	ELECTRO	100UF	16WV		
C255			CQ93FMG1H103J	MYLAR	0.010UF	J		8
C256-259			CQ93FMG1H101K	MYLAR	100PF	K		8
C261,262			CF92FV1H105J	MF-C	1.0UF	J		
C263,264			CQ93FMG1H101K	MYLAR	100PF	K		8
C271			CE04KW1C470M	ELECTRO	47UF	16WV		
C272			CQ93FMG1H102J	MYLAR	1000PF	J		8
C343,344			CC45FSL1H221J	CERAMIC	220PF	J		
C345			CF92FV1H224J	MF-C	0.22UF	J		
C346			CF92FV1H684J	MF-C	0.68UF	J		
C347			CQ93FMG1H101K	MYLAR	100PF	K		8
C351,352			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C353			CE04KW1H100M	ELECTRO	10UF	50WV		
C354			CE04KW1C470M	ELECTRO	47UF	16WV		
C355			CQ93FMG1H101K	MYLAR	100PF	K		8
C357			CQ93FMG1H103J	MYLAR	0.010UF	J		8
CN1			E40-4609-05	PIN ASSY (15P)				
CN2			E40-4914-05	FLAT CABLE CONNECTOR (27P)				

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KR-V7080/V8080

PARTS LIST

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5

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	CN4			E40-4245-05	PIN ASSY (3P)		
	J1-3			E63-0139-15	PHONO JACK (6P)		
	J4			E63-0164-05	PHONO JACK (SUB WOOFER)		
	J6		∗	E70-0065-05	LOCK TERMINAL BOARD (F/R SP)		
	J7			E70-0049-05	SCREW TERMINAL BOARD (F/C SP)		8
	J7			E70-0064-05	SCREW TERMINAL BOARD (F/C SP)		7
⚠	J8			E03-0148-05	AC OUTLET	KPY	
⚠	J8			E03-0149-05	AC OUTLET	EM	
⚠	J8			E03-0310-05	AC OUTLET	T	
⚠	J8			E03-0325-05	AC OUTLET	X	
⚠	J8			E03-0330-05	AC OUTLET	C	
	W212,213		∗	E29-1614-03	LEAD PLATE		8
	W214		∗	E29-1615-04	LEAD PLATE		8
	W215,216		∗	E29-1616-04	LEAD PLATE		8
⚠	F1			F05-3121-05	FUSE (SEMKO) (250V T3.15AL)	YXTEMC	
⚠	F1			F50-0078-05	FUSE(5X20) (125V 10A) KP		
⚠	F2			F05-2525-05	FUSE (SEMKO) (250V T2.5AL)	E	
⚠	F2			F05-3121-05	FUSE (SEMKO) (250V T3.15AL)	YM	
⚠	F3,4			F50-0078-05	FUSE(5X20) (125V 10A)	KP	
⚠	F5,6			F04-1026-05	FUSE (UL) (250V 1A)	KP	
⚠	F5,6			F06-1022-05	FUSE (SEMKO) (250V T1AL)	YXTEMC	
	CN7 ,8			J13-0075-05	FUSE CLIP		
	CN10,11			J13-0075-05	FUSE CLIP	YEM	
	CN12-15			J13-0075-05	FUSE CLIP	KP	
	CN16-19			J13-0075-05	FUSE CLIP		
	J9			J11-0809-05	WIRE CLAMPER		8
	J10 ,11			J11-0809-05	WIRE CLAMPER		
⚠	T1			L07-0864-05	POWER TRANSFORMER	KP	
⚠	T1			L07-0865-05	POWER TRANSFORMER	YM	
⚠	T1			L07-0866-05	POWER TRANSFORMER	X	
⚠	T1			L07-0867-05	POWER TRANSFORMER	TE	
⚠	T1			L07-2114-05	POWER TRANSFORMER	C	
⚠	CP1 -3			R90-0840-05	RD 0.22 5W		
⚠	CP4			R90-0186-05	MULTI-COMP 0.47X2 K 5W		
⚠	R27			RD14NB2E470J	RD 47 J 1/4W		
	R30			RS14KB3D822J	FL-PROOF RS 8.2K J 2W		
	R41			RD14NB2E101J	RD 100 J 1/4W		
⚠	R42			RD14NB2E180J	RD 18 J 1/4W		
⚠	R43 -45			RS14KB3D331J	FL-PROOF RS 330 J 2W		
	R49			RD14NB2E682J	RD 6.8K J 1/4W		
⚠	R54			RD14NB2E3R3J	RD 3.3 J 1/4W		
⚠	R55			RD14NB2E470J	RD 47 J 1/4W		
⚠	R99 ,100			RD14NB2E470J	RD 47 J 1/4W		
	R115-118			RD14NB2E221J	RD 220 J 1/4W		
	R123,124			RD14NB2E121J	RD 120 J 1/4W		
⚠	R133-136			RD14NB2E220J	RD 22 J 1/4W		
	R137,138			RD14NB2E332J	RD 3.3K J 1/4W		
	R143,144			RS14KB3D4R7J	FL-PROOF RS 4.7 J 2W		
	R165-168			RD14NB2E221J	RD 220 J 1/4W		
	R173,174			RD14NB2E121J	RD 120 J 1/4W		
⚠	R183-186			RD14NB2E220J	RD 22 J 1/4W		
	R187,188			RD14NB2E332J	RD 3.3K J 1/4W		
	R193,194			RS14KB3D4R7J	FL-PROOF RS 4.7 J 2W		

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6

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⚠	R234			R92-1769-05	CARBON 3.3M J 1/2W	KP	
⚠	R374,375			RD14NB2E820J	RD 82 J 1/4W		
	VR1 -4			R12-1616-05	TRIMMING POT.(1K ADJUSTMENT)		
	K1-3			S76-0038-05	MAGNETIC RELAY (SP RELAY)		
	K1-3			S76-0045-05	MAGNETIC RELAY (SP RELAY)		
⚠	K5			S76-0009-05	MAGNETIC RELAY		
⚠	K5		∗	S76-0044-05	MAGNETIC RELAY		
⚠	S1			S31-2136-05	SLIDE SWITCH (IMPEDANCE SEL)		
⚠	S2			S31-2322-05	SLIDE SWITCH (120-/220-/240-)	YM	
⚠	S3			S62-0001-05	SLIDE SWITCH (120-/240-)	YM	
⚠	D1			RBV-602LFA	DIODE		
⚠	D3-8			S5688B	DIODE		
⚠	D3-8			1SR139-100	DIODE		
	D9			HZS4.7N(B2)	ZENER DIODE		
	D9			RD4.7ES(B2)	ZENER DIODE		
	D10			HSS104	DIODE		
	D10			1SS133	DIODE		
	D11			HZS6.2N(B2)	ZENER DIODE		
	D11			RD6.2ES(B2)	ZENER DIODE		
	D12			HZS8.2N(B2)	ZENER DIODE		
	D12			RD8.2ES(B2)	ZENER DIODE		
	D13 ,14			HZS16N(B2)	ZENER DIODE		
	D13 ,14			RD16ES(B2)	ZENER DIODE		
	D15 -20			HSS104	DIODE		
	D15 -20			1SS133	DIODE		
	D21 -24			HSS104A	DIODE		
	D21 -24			1SS131	DIODE		
	D25			HZS5.1N(B2)	ZENER DIODE		
	D25			RD5.1ES(B2)	ZENER DIODE		
	D29			HSS104A	DIODE		
	D29			1SS131	DIODE		
	D30			HZS5.1N(B2)	ZENER DIODE		
	D30			RD5.1ES(B2)	ZENER DIODE		
⚠	D31 ,32			S5688B	DIODE	KP	
⚠	D31 ,32			1SR139-100	DIODE	KP	
	D48			HSS104	DIODE		
	D48			1SS133	DIODE		
⚠	D49			HSS104A	DIODE		
⚠	D49			1SS131	DIODE		
⚠	D50 -53			S5688B	DIODE		
⚠	D50 -53			1SR139-100	DIODE		
	D54			HZS6.2N(B2)	ZENER DIODE		
	D54			RD6.2ES(B2)	ZENER DIODE		
⚠	D55 ,56			HSS104A	DIODE		
⚠	D55 ,56			1SS131	DIODE		
	D57			HZS2.7N(B2)	ZENER DIODE		
	D57			RD2.7ES(B2)	ZENER DIODE		
	D59			HSS104	DIODE		
	D59			1SS133	DIODE		
⚠	D64			HSS104A	DIODE		
⚠	D64			1SS131	DIODE		
	D71 ,72			HZS8.2N(B2)	ZENER DIODE		
	D71 ,72			RD8.2ES(B2)	ZENER DIODE		
	D73			HZS10N(B)	ZENER DIODE		

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7

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D73			RD10ES(B)	ZENER DIODE		
D75 ,76			HZS8.2N(B2)	ZENER DIODE		
D75 ,76			RD8.2ES(B2)	ZENER DIODE		
D77 ,78			S5688B	DIODE		
D77 ,78			1SR139-100	DIODE		
D79			HSS104	DIODE		
D79			1SS133	DIODE		
D80			HZS5.1N(B2)	ZENER DIODE		
D80			RD5.1ES(B2)	ZENER DIODE		
D90			HSS104	DIODE		
D90			1SS133	DIODE		
IC1			NJM4580L-D	IC(OP AMP X2)		
IC2			NJM4565L-D	ANALOGUE IC		
IC3			NJM4580D-D	IC(OP AMP X2)		
IC4			NJU7312AL	ANALOGUE IC		
IC5			NJU7311AL	ANALOGUE IC		
IC6			TDA7315	ANALOGUE IC		
IC7			TDA7345D	ANALOGUE IC		
Q2			2SC2878(B)	TRANSISTOR		
⚠ Q3			2SD2012	TRANSISTOR		
⚠ Q3			2SD2061(E,F)	TRANSISTOR		
⚠ Q5			2SC2458(Y,GR)	TRANSISTOR		
⚠ Q5			2SC3311A(Q,R)	TRANSISTOR		
⚠ Q6			2SB1370(E,F)	TRANSISTOR		
⚠ Q6			2SB1375	TRANSISTOR		
Q7			2SC2458(Y,GR)	TRANSISTOR		
Q7			2SC3311A(Q,R)	TRANSISTOR		
Q8			2SA1048(Y,GR)	TRANSISTOR		
Q8			2SA1309A(Q,R)	TRANSISTOR		
⚠ Q9			2SA1534A(R,S)	TRANSISTOR		
Q10 -12			DTC113ZS	DIGITAL TRANSISTOR		
Q10 -12			UN4219	TRANSISTOR		
Q14			2SA1048(Y,GR)	TRANSISTOR		
Q14			2SA1309A(Q,R)	TRANSISTOR		
Q15 -18			2SC2878(B)	TRANSISTOR		
Q19			DTC124ES	DIGITAL TRANSISTOR		
Q19			UN4212	TRANSISTOR		
Q20			2SC2458(Y,GR)	TRANSISTOR		
Q20			2SC3311A(Q,R)	TRANSISTOR		
Q21 -24			2SA992(F,E)	TRANSISTOR		
Q25 -28			2SC2631(R,S)	TRANSISTOR		
Q29 ,30			2SA1123(R,S)	TRANSISTOR		
Q31 ,32			2SC1845(F,E)	TRANSISTOR		
Q33 -36			2SA992(F,E)	TRANSISTOR		
Q37 -40			2SC2631(R,S)	TRANSISTOR		
Q41 ,42			2SA1123(R,S)	TRANSISTOR		
Q43 -46			2SC1845(F,E)	TRANSISTOR		
⚠ Q47 ,48			2SA992(F,E)	TRANSISTOR		
Q49 ,50			2SC2878(B)	TRANSISTOR		
Q63			2SC2003(L,K)	TRANSISTOR		
⚠ Q64			2SC3940A(R,S)	TRANSISTOR		
Q90			DTC124ES	DIGITAL TRANSISTOR		
Q90			UN4212	TRANSISTOR		
⚠ Q101,102			2SD2222 ∗5	TRANSISTOR		
⚠ Q103,104			2SB1470 ∗5	TRANSISTOR		

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8

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Q105,106		∗	2SC4137F50(V,W	TRANSISTOR		
⚠ Q107,108			2SD2389	TRANSISTOR		
⚠ Q109,110			2SB1559	TRANSISTOR		
Q111,112		∗	2SC4137F50(V,W	TRANSISTOR		
DISPLAY UNIT (X14-4120-XX/X14-4132-XX)						
D17 -19			B30-2461-05	LED(RED,5 ?ll)		
C1			C90-3253-05	ELECTRO 1.0UF 50WV		
C2			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C3			C90-1827-05	ELECTRO 0.047F 5.5WV		
C4			CE04KW1A221M	ELECTRO 220UF 10WV		
C5,6			C90-3242-05	ELECTRO 4.7UF 35WV		
C7			CE04KW1C330M	ELECTRO 33UF 16WV		
C8-10			C91-0769-05	CERAMIC 0.010UF K		
C11			CC73FCH1H470J	CHIP C 47PF J	TE	
C12			CE04KW1H2R2M	ELECTRO 2.2UF 50WV	TE	
C13			CC45FSL1H331J	CERAMIC 330PF J	TE	
C14			CK73FB1H103K	CHIP C 0.010UF K	TE	
C15			CC73FCH1H220J	CHIP C 22PF J	TE	
C16			CC45FSL1H561J	CERAMIC 560PF J	TE	
C17			CE04KW1C100M	ELECTRO 10UF 16WV	TE	
C18			CK73FB1H103K	CHIP C 0.010UF K	TE	
C19			CE04KW1C100M	ELECTRO 10UF 16WV	TE	
C20			CK73FB1H102K	CHIP C 1000PF K	TE	
⚠ C21			C91-1488-05	MF 6800PF 250VAC		
C22 ,23			CK45FF1H103Z	CERAMIC 0.010UF Z		
C24			CK73FB1E473K	CHIP C 0.047UF K		
C101-104			CQ93FMG1H103J	MYLAR 0.010UF J		
C105			CK73FB1H102K	CHIP C 1000PF K		
C131,132			CK45FB1H561K	CERAMIC 560PF K	TE	
C133			CK45FF1H223Z	CERAMIC 0.022UF Z	TE	
C200			CK45FF1H473Z	CERAMIC 0.047UF Z		
C301,302			CK73FB1H103K	CHIP C 0.010UF K		
C303			CE04KW1C100M	ELECTRO 10UF 16WV	TE	
C304			CE04KW1A470M	ELECTRO 47UF 10WV	KPYXMC	
C304			CK73FB1E473K	CHIP C 0.047UF K	TE	
C305			CE04KW1C100M	ELECTRO 10UF 16WV	TE	
C305			CK73FB1H103K	CHIP C 0.010UF K	KPYXMC	
C306			CK73FB1E473K	CHIP C 0.047UF K	TE	
C307			CE04KW1C100M	ELECTRO 10UF 16WV	TE	
C308			CE04KW1H010M	ELECTRO 1.0UF 50WV	TE	
C308			CK73FB1H103K	CHIP C 0.010UF K	KPYXMC	
C309			CE04KW1HR47M	ELECTRO 0.47UF 50WV	TE	
C310			CE04KW1H2R2M	ELECTRO 2.2UF 50WV	TE	
C310			CK73FB1H102K	CHIP C 1000PF K	KPYXMC	
C311			CE04KW1HR47M	ELECTRO 0.47UF 50WV	TE	
C311			CE04KW1V4R7M	ELECTRO 4.7UF 35WV	KPYXMC	
C312			CK73FB1E473K	CHIP C 0.047UF K	TE	
C313			CC73FCH1H220J	CHIP C 22PF J	TE	
C313			CE04KW1H010M	ELECTRO 1.0UF 50WV	KPYXMC	
C314			CE04KW1A101M	ELECTRO 100UF 10WV	TE	
C314			CE04KW1H2R2M	ELECTRO 2.2UF 50WV	KPYXMC	
C315			CK73FB1H472K	CHIP C 4700PF K	TE	
C316			CE04KW1H010M	ELECTRO 1.0UF 50WV	TE	
C317,318			CE04KW1C100M	ELECTRO 10UF 16WV	TE	

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KR-V7080/V8080

PARTS LIST

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9

Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
C319,320			CQ93FMG1H273J	MYLAR	0.027UF	J	TE	
C321			CK73FB1H103K	CHIP C	0.010UF	K	TE	
C321			CQ93FMG1H163J	MYLAR	0.016UF	J	YXMC	
C321			CQ93FMG1H243J	MYLAR	0.024UF	J	KP	
C322			CC73FSL1H101J	CHIP C	100PF	J	TE	
C322			CQ93FMG1H163J	MYLAR	0.016UF	J	YXMC	
C322			CQ93FMG1H243J	MYLAR	0.024UF	J	KP	
C323			CE04KW1H010M	ELECTRO	1.0UF	50WV	KPYXMC	
C323			CE04KW1H2R2M	ELECTRO	2.2UF	50WV	TE	
C324			CE04KW1H2R2M	ELECTRO	2.2UF	50WV	TE	
C324			CE04KW1H3R3M	ELECTRO	3.3UF	50WV	KPYXMC	
C325			CE04KW1C100M	ELECTRO	10UF	16WV	KPYXMC	
C325			CK73FB1H562K	CHIP C	5600PF	K	TE	
C326			CK73FB1H562K	CHIP C	5600PF	K	TE	
C327			CK73FB1E473K	CHIP C	0.047UF	K		
C328			CC73FSL1H150J	CHIP C	15PF	J	TE	
C328			CE04KW1C100M	ELECTRO	10UF	16WV	KPYXMC	
C329			CE04KW1H0R1M	ELECTRO	0.1UF	50WV	TE	
C330			CE04KW1C470M	ELECTRO	47UF	16WV	TE	
C331			CE04KW1A470M	ELECTRO	47UF	10WV	KPYXMC	
C331			CK73FB1E473K	CHIP C	0.047UF	K	TE	
C332			CK73FB1H103K	CHIP C	0.010UF	K		
C333			CC73FCH1H270J	CHIP C	27PF	J		
C334			CC73FCH1H220J	CHIP C	22PF	J		
C335,336			CC73FSL1H101J	CHIP C	100PF	J	TE	
C335,336			CK73FB1H471K	CHIP C	470PF	K	KPYXMC	
C338			CC73FSL1H101J	CHIP C	100PF	J	TE	
C338			CK73FB1H471K	CHIP C	470PF	K	KPYXMC	
C339			CE04KW1C470M	ELECTRO	47UF	16WV		
C340			CK73FB1H223K	CHIP C	0.022UF	K	KPYXMC	
C340			CQ93FMG1H223J	MYLAR	0.022UF	J	TE	
C341			CE04HW1H2R2M	NP-ELEC	2.2UF	50WV	TE	
C341			CE04KW1H010M	ELECTRO	1.0UF	50WV	KPYXMC	
C342,343			CK73FB1H103K	CHIP C	0.010UF	K		
C344			CE04KW1A470M	ELECTRO	47UF	10WV	TE	
C345			CE04KW1C470M	ELECTRO	47UF	16WV	TE	
C346			CE04KW1H010M	ELECTRO	1.0UF	50WV	TE	
C347			CK73FB1H103K	CHIP C	0.010UF	K	TE	
C348			CE04KW1H010M	ELECTRO	1.0UF	50WV	TE	
C349			CK73FB1H103K	CHIP C	0.010UF	K	TE	
C350			CC73FCH1H330J	CHIP C	33PF	J	TE	
C350			C91-0769-05	CERAMIC	0.010UF	K	KPYXMC	
C351			CE04KW1H010M	ELECTRO	1.0UF	50WV	KPYXMC	
C351			CK73FB1H102K	CHIP C	1000PF	K	TE	
C352			CE04KW1C470M	ELECTRO	47UF	16WV	KPYXMC	
C352			CK73FB1H102K	CHIP C	1000PF	K	TE	
C353,354			CK73FB1H102K	CHIP C	1000PF	K	TE	
C355			CK73FB1H222K	CHIP C	2200PF	K	TE	
C356			CC73FCH1H060D	CHIP C	6.0PF	D	TE	
C357			CC73FCH1H220J	CHIP C	22PF	J		
C358			CK73FB1E473K	CHIP C	0.047UF	K	TE	
C359			CK73FB1H102K	CHIP C	1000PF	K	TE	
C360			CC73FSL1H101J	CHIP C	100PF	J	TE	
C361			C91-0745-05	CERAMIC	100PF	K	TE	
C362			CC45FSL1H020C	CERAMIC	2.0PF	C	TE	

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10

Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
C363			CK73FB1H103K	CHIP C	0.010UF	K	TE	
C364			CE04KW1H010M	ELECTRO	1.0UF	50WV	TE	
C365			CE04KW1H010M	ELECTRO	1.0UF	50WV	KPYXMC	
C365			CK73FB1E473K	CHIP C	0.047UF	K	TE	
C366			CK73FB1H102K	CHIP C	1000PF	K	KPYXMC	
C371			CE04KW1C100M	ELECTRO	10UF	16WV	KPYXMC	
C372			CE04KW1C470M	ELECTRO	47UF	16WV	KPYXMC	
C403-406			CE04KW1HR47M	ELECTRO	0.47UF	50WV	KPYXMC	
C407			CK73FB1E473K	CHIP C	0.047UF	K	KPYXMC	
C412			CC73FSL1H101J	CHIP C	100PF	J	KPYXMC	
C414			CK73FB1H681K	CHIP C	680PF	K	KPYXMC	
C415,416			CC73FSL1H101J	CHIP C	100PF	J	KPYXMC	
C421,422			CE04KW1C470M	ELECTRO	47UF	16WV	KPYXMC	
C425			CQ93FMG1H682J	MYLAR	6800PF	J	YMC	
C438			CQ93FMG1H682J	MYLAR	6800PF	J	YMC	
C482			CC73FSL1H150J	CHIP C	15PF	J	KPYXMC	
C501			CQ93FMG1H223J	MYLAR	0.022UF	J		
C502			CQ93FMG1H473J	MYLAR	0.047UF	J		
C503			CE04KW1A221M	ELECTRO	220UF	10WV		
C504-507			CE04KW1C100M	ELECTRO	10UF	16WV		
C508			CE04KW1A221M	ELECTRO	220UF	10WV		
C509,510			CQ93FMG1H104J	MYLAR	0.10UF	J		
C511			CE04KW1HR47M	ELECTRO	0.47UF	50WV		
C512			CE04KW1V4R7M	ELECTRO	4.7UF	35WV		
C513			CE04KW1HR47M	ELECTRO	0.47UF	50WV		
C514			CE04KW1V4R7M	ELECTRO	4.7UF	35WV		
C515			CF92FV1H154J	MF-C	0.15UF	J		
C516			CE04KW1H3R3M	ELECTRO	3.3UF	50WV		
C517,518			CF92FV1H154J	MF-C	0.15UF	J		
C519			CE04KW1H3R3M	ELECTRO	3.3UF	50WV		
C520			CF92FV1H154J	MF-C	0.15UF	J		
C521			CE04KW1V4R7M	ELECTRO	4.7UF	35WV		
C522			CE04KW1HR47M	ELECTRO	0.47UF	50WV		
C523			CE04KW1V4R7M	ELECTRO	4.7UF	35WV		
C524			CE04KW1HR47M	ELECTRO	0.47UF	50WV		
C525,526			CQ93FMG1H104J	MYLAR	0.10UF	J		
C527			CE04KW1C470M	ELECTRO	47UF	16WV		
C528,529			CF92FV1H474J	MF-C	0.47UF	J		
C530,531			CE04KW1C100M	ELECTRO	10UF	16WV		
C532			CQ93FMG1H681J	MYLAR	680PF	J		
C533-535			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C536			CE04KW1C100M	ELECTRO	10UF	16WV		
C537			CK73FB1H103K	CHIP C	0.010UF	K		
C538			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C539			CE04KW1C100M	ELECTRO	10UF	16WV		
C540			CE04KW1HR33M	ELECTRO	0.33UF	50WV		
C541			CE04KW1C100M	ELECTRO	10UF	16WV		
C542			CE04KW1A221M	ELECTRO	220UF	10WV		
C543,544			CE04KW1C100M	ELECTRO	10UF	16WV		
C545			CE04KW1HR47M	ELECTRO	0.47UF	50WV		
C546			CQ93FMG1H823J	MYLAR	0.082UF	J		
C547			CQ93FMG1H332J	MYLAR	3300PF	J		
C548			CQ93FMG1H823J	MYLAR	0.082UF	J		
C549			CE04KW1A221M	ELECTRO	220UF	10WV		
C550			CK73FB1H102K	CHIP C	1000PF	K	KP	

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KR-V7080/V8080

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11

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C551			CE04KW1C100M	ELECTRO 10UF 16WV		
C552			CK73FB1H103K	CHIP C 0.010UF K		
C553,554			CE04KW1C100M	ELECTRO 10UF 16WV		
C555			CQ93FMG1H222J	MYLAR 2200PF J		
C556			CQ93FMG1H103J	MYLAR 0.010UF J		
C557,558			CF92FV1H101K	MF-C 100PF K		
C561-572			CC73FSL1H101J	CHIP C 100PF J	KP	
C601			CE04KW1C470M	ELECTRO 47UF 16WV		
C602			CE04KW1C101M	ELECTRO 100UF 16WV		
C604			CK73FB1H103K	CHIP C 0.010UF K		
C605			CK73FB1E104K	CHIP C 0.10UF K		
C606			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C703,704			CC73FSL1H470J	CHIP C 47PF J		
C705-707			CE04KW1C100M	ELECTRO 10UF 16WV		
C708			CK73FB1H103K	CHIP C 0.010UF K		
C709			CE04KW1A221M	ELECTRO 220UF 10WV		
C710			CK73FB1H103K	CHIP C 0.010UF K		
C711,712			CC73FSL1H221J	CHIP C 220PF J		
C713			CK73FB1H103K	CHIP C 0.010UF K		
CN501			E40-4609-05	PIN ASS'Y (15P)		
CN502			E40-4294-05	FLAT CABLE CONNECTOR (4P)	YMCTE	
CN503			E40-4914-05	FLAT CABLE CONNECTOR (27P)		
J1			E11-0272-05	PHONE JACK (PHONES)		
J301			E70-0052-05	LOCK TERMINAL BOARD		
J701			E63-0138-15	PHONO JACK(4P VIDEO)		
J702			E11-0188-05	MINIATURE PHONE JACK(2P S.CON)		
E102			J11-0809-05	WIRE CLAMPER		
E103-106			J11-0808-05	WIRE CLAMPER		
CF301,302			L72-0531-05	CERAMIC FILTER	KPYXMC	
CF301,302			L72-0536-05	CERAMIC FILTER	TE	
CF303			L72-0574-05	CERAMIC FILTER	KPYXMC	
L1,2			L40-1001-17	SMALL FIXED INDUCTOR(10UH,K)	TE	
L3			L40-1091-17	SMALL FIXED INDUCTOR(1UH)	TE	
L4			L40-1091-17	SMALL FIXED INDUCTOR(1UH)	YMC	
L301,302			L79-1219-05	LC FILTER	TE	
L303			L30-0910-05	FM IFT	TE	
L305			L79-0125-05	LC FILTER	TE	
L306			L39-1328-05	COMBINATION COIL	TE	
L306		*	L39-1337-05	COMBINATION COIL	TE	
L307			L30-0467-05	AM IFT		
L308,309			L40-1091-17	SMALL FIXED INDUCTOR(1UH)	TE	
L310			L40-1091-17	SMALL FIXED INDUCTOR(1UH)	KPYXMC	
L311			L40-1001-17	SMALL FIXED INDUCTOR(10UH,K)	TE	
L311			L40-1021-14	SMALL FIXED INDUCTOR(1.0MH,K)	KPYXMC	
L312			L40-1091-17	SMALL FIXED INDUCTOR(1UH)	KPYXMC	
L403			L39-1328-05	COMBINATION COIL	KPYXMC	
L403		*	L39-1337-05	COMBINATION COIL	KPYXMC	
L406			L40-1091-17	SMALL FIXED INDUCTOR(1UH)	KPYXMC	
L601			L40-1001-17	SMALL FIXED INDUCTOR(10UH,K)		
L602			L40-1091-17	SMALL FIXED INDUCTOR(1UH)		
X1			L78-0267-05	RESONATOR (4.194MHZ)		
X2			L78-0244-05	RESONATOR (4.000M)	TE	
X3			L77-2002-05	CRYSTAL RESONATOR(4.332MHZ)	TE	

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12

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X301			L77-2159-05	CRYSTAL RESONATOR(7.2MHZ)		
X302		*	L78-0637-05	RESONATOR (456KHZ)		
X501			L78-0290-05	RESONATOR (8MHZ)		
CP1			R90-0492-05	MULTI-COMP 100KX8 J 1/6W		
R1			RK73EB2B101J	CHIP R 100 J 1/8W		
R3-5			RK73FB2A101J	CHIP R 100 J 1/10W		
R6			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R8			RK73FB2A104J	CHIP R 100K J 1/10W		
R9			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R10 ,11			RK73FB2A103J	CHIP R 10K J 1/10W		
R15 ,16			RK73FB2A331J	CHIP R 330 J 1/10W		
R17 ,18			RK73FB2A104J	CHIP R 100K J 1/10W		
R19 ,20			RD14NB2E221J	RD 220 J 1/4W		
⚠ R22			RD14NB2E100J	RD 10 J 1/4W		
R23 -27			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R28 -30			RK73FB2A103J	CHIP R 10K J 1/10W		
R38 ,39			RK73FB2A472J	CHIP R 4.7K J 1/10W		
R44 ,45			RK73FB2A103J	CHIP R 10K J 1/10W		
R52			RK73EB2B103J	CHIP R 10K J 1/8W		
R54			RK73FB2A222J	CHIP R 2.2K J 1/10W		
R69 -72			RK73FB2A101J	CHIP R 100 J 1/10W		
R75 -77			RK73FB2A101J	CHIP R 100 J 1/10W		
R80			RK73FB2A222J	CHIP R 2.2K J 1/10W	TE	
R82 ,83			RK73FB2A223J	CHIP R 22K J 1/10W	TE	
R111,112			RK73FB2A683J	CHIP R 68K J 1/10W		
R113,114			RK73EB2B683J	CHIP R 68K J 1/8W		
R115-120			RK73FB2A683J	CHIP R 68K J 1/10W		
R121			RK73EB2B683J	CHIP R 68K J 1/8W		
R122-125			RK73FB2A683J	CHIP R 68K J 1/10W		
R131,132			RS14KB3D561J	FL-PROOF RS 560 J 2W		
R301			RK73FB2A681J	CHIP R 680 J 1/10W		
R302			RK73FB2A332J	CHIP R 3.3K J 1/10W		
R303			RK73FB2A331J	CHIP R 330 J 1/10W		
R304			RK73FB2A100J	CHIP R 10 J 1/10W	TE	
R304			RK73FB2A470J	CHIP R 47 J 1/10W	KPYXMC	
R305			RK73FB2A101J	CHIP R 100 J 1/10W	TE	
R306			RK73FB2A331J	CHIP R 330 J 1/10W		
R307			RK73FB2A392J	CHIP R 3.9K J 1/10W	TE	
R308			RK73FB2A332J	CHIP R 3.3K J 1/10W	TE	
R309			RK73FB2A222J	CHIP R 2.2K J 1/10W	TE	
R310			RK73FB2A473J	CHIP R 47K J 1/10W	TE	
R311			RK73FB2A562J	CHIP R 5.6K J 1/10W	TE	
R311			RS14KB3A820J	FL-PROOF RS 82 J 1W	KPYXMC	
R312			RK73FB2A302J	CHIP R 3.0K J 1/10W	TE	
R313			RK73FB2A393J	CHIP R 39K J 1/10W	TE	
R314			RK73FB2A472J	CHIP R 4.7K J 1/10W	TE	
R315			RK73FB2A391J	CHIP R 390 J 1/10W	KPYXMC	
R315			RK73FB2A473J	CHIP R 47K J 1/10W	TE	
R316			RK73FB2A104J	CHIP R 100K J 1/10W	TE	
R317			RK73FB2A392J	CHIP R 3.9K J 1/10W	TE	
R318			RK73FB2A333J	CHIP R 33K J 1/10W	TE	
R319			RK73FB2A222J	CHIP R 2.2K J 1/10W	TE	
R319			RK73FB2A332J	CHIP R 3.3K J 1/10W	KPYXMC	
R320			RK73FB2A222J	CHIP R 2.2K J 1/10W	TE	

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13

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R321,322			RK73FB2A122J	CHIP R	1.2K	J	1/10W	TE	
R321,322			RK73FB2A393J	CHIP R	39K	J	1/10W	KPYXMC	
R323			RK73FB2A472J	CHIP R	4.7K	J	1/10W	TE	
R324			RK73FB2A102J	CHIP R	1.0K	J	1/10W	KPYXMC	
R324			RK73FB2A472J	CHIP R	4.7K	J	1/10W	TE	
R325			RK73FB2A103J	CHIP R	10K	J	1/10W	KPYXMC	
R325			RK73FB2A561J	CHIP R	560	J	1/10W	TE	
R326			RK73FB2A472J	CHIP R	4.7K	J	1/10W	TE	
R327			RK73FB2A473J	CHIP R	47K	J	1/10W	TE	
R328			RK73FB2A821J	CHIP R	820	J	1/10W	TE	
R329,330			RK73FB2A102J	CHIP R	1.0K	J	1/10W	TE	
⚠ R331			RK73FB2A822J	CHIP R	8.2K	J	1/10W	TE	
R331			RS14KB3D221J	FL-PROOF RS	220	J	2W	KPYXMC	
R332,333			RK73FB2A102J	CHIP R	1.0K	J	1/10W	KPYXMC	
R332,333			RK73FB2A472J	CHIP R	4.7K	J	1/10W	TE	
R334			RK73FB2A104J	CHIP R	100K	J	1/10W		
R335			RK73FB2A102J	CHIP R	1.0K	J	1/10W	KPYXMC	
R335			RK73FB2A472J	CHIP R	4.7K	J	1/10W	TE	
R336,337			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R338			RK73FB2A102J	CHIP R	1.0K	J	1/10W	TE	
R338			RK73FB2A221J	CHIP R	220	J	1/10W	KPYXMC	
R339			RK73FB2A822J	CHIP R	8.2K	J	1/10W		
R340			RK73FB2A102J	CHIP R	1.0K	J	1/10W	KPYXMC	
R340			RK73FB2A471J	CHIP R	470	J	1/10W	TE	
R341			RK73FB2A821J	CHIP R	820	J	1/10W	TE	
⚠ R342			RD14NB2E101J	RD	100	J	1/4W		
R343			RK73FB2A103J	CHIP R	10K	J	1/10W		
R344			RK73EB2B221J	CHIP R	220	J	1/8W	TE	
R345			RK73FB2A122J	CHIP R	1.2K	J	1/10W	TE	
R346			RK73FB2A750J	CHIP R	75	J	1/10W	TE	
R347			RK73FB2A681J	CHIP R	680	J	1/10W	TE	
R348			RK73FB2A621J	CHIP R	620	J	1/10W	TE	
R349			RK73FB2A104J	CHIP R	100K	J	1/10W	TE	
R350			RK73FB2A471J	CHIP R	470	J	1/10W	TE	
R351			RK73FB2A181J	CHIP R	180	J	1/10W	TE	
R352			RK73FB2A104J	CHIP R	100K	J	1/10W	TE	
R352			RK73FB2A472J	CHIP R	4.7K	J	1/10W	KPYXMC	
R353			RK73FB2A103J	CHIP R	10K	J	1/10W	TE	
R354,355			RK73FB2A223J	CHIP R	22K	J	1/10W	TE	
R356			RK73FB2A104J	CHIP R	100K	J	1/10W	TE	
R357			RK73FB2A473J	CHIP R	47K	J	1/10W	TE	
R358			RK73FB2A104J	CHIP R	100K	J	1/10W	TE	
R361			RK73FB2A122J	CHIP R	1.2K	J	1/10W	TE	
R362			RK73FB2A123J	CHIP R	12K	J	1/10W	TE	
R363			RK73FB2A122J	CHIP R	1.2K	J	1/10W	TE	
R364			RK73FB2A104J	CHIP R	100K	J	1/10W	KPYXMC	
R364			RK73FB2A123J	CHIP R	12K	J	1/10W	TE	
R365			RK73FB2A683J	CHIP R	68K	J	1/10W	TE	
R366			RK73FB2A473J	CHIP R	47K	J	1/10W	TE	
R367			RK73FB2A104J	CHIP R	100K	J	1/10W	TE	
R369			RK73FB2A102J	CHIP R	1.0K	J	1/10W	TE	
R370			RK73FB2A104J	CHIP R	100K	J	1/10W	TE	
R371			RK73FB2A102J	CHIP R	1.0K	J	1/10W	TE	
R378			RD14NB2E470J	RD	47	J	1/4W	TE	
⚠ R379			RS14KB3D221J	FL-PROOF RS	220	J	2W	TE	

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14

Ref. No	Add-ress	New Parts	Parts No.	Description				Desti-nation	Re-marks
R381			RK73FB2A563J	CHIP R	56K	J	1/10W	TE	
R384			RK73FB2A101J	CHIP R	100	J	1/10W	TE	
R401,402			RK73FB2A333J	CHIP R	33K	J	1/10W	KPYXMC	
R405,406			RK73FB2A123J	CHIP R	12K	J	1/10W	KPYXMC	
R411			RD14NB2E470J	RD	47	J	1/4W	KPYXMC	
R418			RK73FB2A122J	CHIP R	1.2K	J	1/10W	KPYXMC	
R419			RK73FB2A123J	CHIP R	12K	J	1/10W	KPYXMC	
R422			RK73FB2A122J	CHIP R	1.2K	J	1/10W	KPYXMC	
R423			RK73FB2A123J	CHIP R	12K	J	1/10W	KPYXMC	
R424			RK73FB2A103J	CHIP R	10K	J	1/10W	KPYXMC	
R425,426			RK73FB2A332J	CHIP R	3.3K	J	1/10W	KPYXMC	
⚠ R427,428			RD14NB2E101J	RD	100	J	1/4W	KPYXMC	
R431,432			RK73FB2A393J	CHIP R	39K	J	1/10W	KPYXMC	
R438,439			RK73FB2A561J	CHIP R	560	J	1/10W	YMC	
R440,441			RK73FB2A473J	CHIP R	47K	J	1/10W	YMC	
R451			RK73FB2A821J	CHIP R	820	J	1/10W	KPYXMC	
R452			RK73FB2A473J	CHIP R	47K	J	1/10W	KPYXMC	
R453			RK73FB2A472J	CHIP R	4.7K	J	1/10W	KPYXMC	
R457			RK73FB2A102J	CHIP R	1.0K	J	1/10W	KPYXMC	
R467			RK73FB2A104J	CHIP R	100K	J	1/10W	KPYXMC	
R501,502			RK73FB2A103J	CHIP R	10K	J	1/10W		
R503,504			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R509			RK73FB2A473J	CHIP R	47K	J	1/10W		
R510			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R511			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R512			RK73FB2A473J	CHIP R	47K	J	1/10W		
R513			RK73FB2A100J	CHIP R	10	J	1/10W		
R514			RK73FB2A223J	CHIP R	22K	J	1/10W		
R518			RK73FB2A393J	CHIP R	39K	J	1/10W		
R519			RK73FB2A105J	CHIP R	1.0M	J	1/10W		
R521			RK73FB2A473J	CHIP R	47K	J	1/10W		
R522			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R523			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R524			RK73FB2A473J	CHIP R	47K	J	1/10W		
R525			RK73FB2A100J	CHIP R	10	J	1/10W		
R526,527			RK73FB2A104J	CHIP R	100K	J	1/10W		
R528			RK73FB2A223J	CHIP R	22K	J	1/10W		
R531,532			RK73FB2A104J	CHIP R	100K	J	1/10W		
R557			RK73FB2A223J	CHIP R	22K	J	1/10W		
R601			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R602			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R603			RK73FB2A332J	CHIP R	3.3K	J	1/10W		
R604			RK73FB2A103J	CHIP R	10K	J	1/10W		
R606			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
⚠ R607			RS14KB3D270J	FL-PROOF RS	27	J	2W		
R701-704			RK73FB2A750J	CHIP R	75	J	1/10W		
R705,706			RK73FB2A332J	CHIP R	3.3K	J	1/10W		
R707,708			RS14KB3A391J	FL-PROOF RS	390	J	1W		
W201			R92-0670-05	CHIP R	0 OHM				
W300			R92-0679-05	CHIP R	0 OHM				
W401			R92-0670-05	CHIP R	0 OHM			TE	
W406			R92-0670-05	CHIP R	0 OHM			TE	
W408-411			R92-0670-05	CHIP R	0 OHM			TE	
W414-416			R92-0670-05	CHIP R	0 OHM			TE	
W418,419			R92-0670-05	CHIP R	0 OHM			TE	

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KR-V7080/V8080

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15

Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
W420,421			R92-0670-05	CHIP R 0 OHM		
W422			R92-0670-05	CHIP R 0 OHM	TE	
W426			R92-0670-05	CHIP R 0 OHM	KPYXMC	
W446			R92-0670-05	CHIP R 0 OHM	KPYXMC	
W448			R92-0670-05	CHIP R 0 OHM	KPYXMC	
W501,502			R92-0679-05	CHIP R 0 OHM		
W503			R92-0679-05	CHIP R 0 OHM	YMCTE	
W504			R92-0679-05	CHIP R 0 OHM	KPYXMC	
W505-508			R92-0679-05	CHIP R 0 OHM		
W510-512			R92-0679-05	CHIP R 0 OHM		
S1			S70-0031-05	TACT SWITCH (REMOTE POWER)		
S2-4			S70-0031-05	TACT SWITCH (RDS)	TE	
S5-36			S70-0031-05	TACT SWITCH		
⚠ S39			S40-1138-05	PUSH SWITCH (MAIN POWER)		
S401			S62-0034-05	SLIDE SWITCH (DE-EMPHASIS)	YMC	
S37			T99-0559-05	ROTARY ENCODER(VOLUME CONTROL)		
S38			T99-0571-05	ROTARY ENCODER(INPUT SELECTOR)		
D1			HZS6.2N(B2)	ZENER DIODE		
D1			RD6.2ES(B2)	ZENER DIODE		
D2,3			HSS104	DIODE		
D2,3			1SS133	DIODE		
D4			MA111	DIODE		
D6,7			HSS104	DIODE		
D6,7			1SS133	DIODE		
D8			MA111	DIODE		
D9-14			HSS104	DIODE		
D9-14			1SS133	DIODE		
D16			HSS104A	DIODE	YMC	
D16			1SS131	DIODE	YMC	
D21 -28			HSS104A	DIODE		
D21 -28			1SS131	DIODE		
D29			HSS104A	DIODE	YXMCTE	
D29			1SS131	DIODE	YXMCTE	
D31			HSS104A	DIODE	XTE	
D31			1SS131	DIODE	XTE	
D32 -35			HSS104	DIODE		
D32 -35			1SS133	DIODE		
D301,302			HSS104	DIODE	TE	
D301,302			1SS133	DIODE	TE	
D303			HZS5.1N(B2)	ZENER DIODE		
D303			RD5.1ES(B2)	ZENER DIODE		
D304			HZS3.3N(B2)	ZENER DIODE	KPYXMC	
D304			HZS8.2N(B2)	ZENER DIODE	TE	
D304			RD3.3ES(B2)	ZENER DIODE	KPYXMC	
D304			RD8.2ES(B2)	ZENER DIODE	TE	
D305			HSS104	DIODE	TE	
D305			1SS133	DIODE	TE	
D306			HZS3.3N(B2)	ZENER DIODE	TE	
D306			RD3.3ES(B2)	ZENER DIODE	TE	
D307			HSS104	DIODE	KPYXMC	
D307			MA111	DIODE	TE	
D307			1SS133	DIODE	KPYXMC	
D308			HSS104	DIODE	KPYXMC	
D308			1SS133	DIODE	KPYXMC	

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16

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D308			1SS268	DIODE	TE	
D309			MA111	DIODE	TE	
D310			MA111	DIODE		
D311			HZS8.2N(B2)	ZENER DIODE	KPYXMC	
D311			RD8.2ES(B2)	ZENER DIODE	KPYXMC	
D411,412			MA111	DIODE	KPYXMC	
D601,602			MA111	DIODE		
D603			HZS10N(B)	ZENER DIODE		
D603			RD10ES(B)	ZENER DIODE		
D703,704			HZS5.1N(B2)	ZENER DIODE		
D703,704			RD5.1ES(B2)	ZENER DIODE		
D705,706			HSS104	DIODE		
D705,706			1SS133	DIODE		
ED1			11-MT-92GK	INDICATOR TUBE		
IC1		∗	UPD78044AGF160	MI-COM IC	KPYXMC	
IC1		∗	UPD78045AGF027	MI-COM IC	TE	
IC2			S-806D-Z	ANALOGUE IC		
IC3			SAA6579	ANALOGUE IC	TE	
IC4			LC6543H-4D68	MI-COM IC	TE	
IC301			LA1831A-KEN	ANALOGUE IC	KPYXMC	
IC301			LA1836	ANALOGUE IC	TE	
IC302			LC7218	IC(PLL FREQUENCY SYNTHESIZER)		
IC303			M5223P	IC(OP AMP X2)	TE	
IC312			NJM4565D	IC(OP AMP X2)	KPYXMC	
IC501		∗	LA2786	ANALOGUE IC		
IC502		∗	LV1015	DI BI-POLAR IC		
IC503			NJM4565L-D	ANALOGUE IC		
IC701			NJM2279D	IC(VIDEO IC)		
Q1			2SC4081(R,S)	TRANSISTOR		
Q1			2SC4116(Y,GR)	TRANSISTOR		
Q2			2SC2458(Y,GR)	TRANSISTOR		
Q2			2SC3311A(Q,R)	TRANSISTOR		
Q3			2SA1048(Y,GR)	TRANSISTOR	YMC	
Q3			2SA1309A(Q,R)	TRANSISTOR	YMC	
Q301			2SC2714(R,O)	TRANSISTOR		
Q302			2SC1845(F,E)	TRANSISTOR		
Q303			2SC2458(Y,GR)	TRANSISTOR	KPYXMC	
Q303			2SC3311A(Q,R)	TRANSISTOR	KPYXMC	
Q303			2SC4081(R,S)	TRANSISTOR	TE	
Q303			2SC4116(Y,GR)	TRANSISTOR	TE	
Q304,305			2SC4081(R,S)	TRANSISTOR	TE	
Q304,305			2SC4116(Y,GR)	TRANSISTOR	TE	
Q307		∗	2SA1576A(R,S)	TRANSISTOR	TE	
Q307			2SA1586(Y,GR)	TRANSISTOR	TE	
Q307			2SC4081(R,S)	TRANSISTOR	KPYXMC	
Q307			2SC4116(Y,GR)	TRANSISTOR	KPYXMC	
Q308		∗	2SA1576A(R,S)	TRANSISTOR	TE	
Q308			2SA1586(Y,GR)	TRANSISTOR	TE	
⚠ Q309			2SC3940A(R,S)	TRANSISTOR	TE	
⚠ Q309			2SD863(E,F)	TRANSISTOR	TE	
Q310		∗	2SA1576A(R,S)	TRANSISTOR	TE	
Q310			2SA1586(Y,GR)	TRANSISTOR	TE	
⚠ Q311			2SC3940A(R,S)	TRANSISTOR	KPYXMC	
⚠ Q311			2SD1757K	TRANSISTOR	TE	
⚠ Q311			2SD863(E,F)	TRANSISTOR	KPYXMC	

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17

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Q312			2SD1757K	TRANSISTOR	TE	
Q316			2SC4081(R,S)	TRANSISTOR	TE	
Q316			2SC4116(Y,GR)	TRANSISTOR	TE	
Q317		*	2SA1576A(R,S)	TRANSISTOR	TE	
Q317			2SA1586(Y,GR)	TRANSISTOR	TE	
Q318			2SC4081(R,S)	TRANSISTOR	TE	
Q318			2SC4116(Y,GR)	TRANSISTOR	TE	
Q402		*	2SA1576A(R,S)	TRANSISTOR	KPYXMC	
Q402			2SA1586(Y,GR)	TRANSISTOR	KPYXMC	
Q404		*	2SA1576A(R,S)	TRANSISTOR	KPYXMC	
Q404			2SA1586(Y,GR)	TRANSISTOR	KPYXMC	
Q407,408			2SC4081(R,S)	TRANSISTOR	YMC	
Q407,408			2SC4116(Y,GR)	TRANSISTOR	YMC	
Q409,410			2SD1757K	TRANSISTOR	KPYXMC	
Q411		*	2SA1576A(R,S)	TRANSISTOR	KPYXMC	
Q411			2SA1586(Y,GR)	TRANSISTOR	KPYXMC	
Q601-603			DTC124EU	DIGITAL TRANSISTOR		
Q601-603			UN5212	TRANSISTOR		
Q604			2SC3940A(R,S)	TRANSISTOR		
Q604			2SD863(E,F)	TRANSISTOR		
A1			W02-1174-05	ELECTRIC CIRCUIT MODULE		
A301			W02-2509-05	FM FRONT-END ASS'Y	TE	
A301			W02-2512-05	FM FRONT-END ASS'Y	KPYXMC	

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SPECIFICATIONS

Audio section

Rated power output at the STEREO operation

100 watts per channel minimum RMS, both channels driven at 8 Ω, from 20 Hz to 20,000 Hz with no more than 0.06 % total harmonic distortion. (FTC)

Power output at the SURROUND operation

Front

100 watts per channel minimum RMS, both channels driven, at 8 Ω, 1 kHz with on more than 0.7 % total harmonic distortion. (FTC)

Center

100 watts minimum RMS at 8 Ω, 1 kHz with no more than 0.7 % total harmonic distortion. (FTC)

Rear

30 watts per channel minimum RMS, both channels driven, at 8 Ω, 1 kHz with no more than 0.7 % total harmonic distortion. (FTC)

Total harmonic distortion
.....0.01 % (1 kHz, 50 W, 8 Ω)
Signal to noise ratio (IHF'66)
PHONO (MM).....75 dB
LINE (CD).....95 dB
Input sensitivity / impedance
PHONO (MM).....2.5 mV / 47 kΩ
CD, TAPE, VIDEO.....200 mV / 47 kΩ
Tone controls
BASS.....±8 dB (at 100 Hz)
TREBLE.....±8 dB (at 10 kHz)
LOUDNESS control at - 30 dB VOLUME level
.....+ 6 dB (100 Hz)
Output level / impedance
Sub woofer preout.....1.0 V / 2.2 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
MONO.....1.2 μV (75 Ω) / 13.2 dBf
(75 kHz dev., S/N 30 dB)
50 dB quieting sensitivity
STEREO.....32 μV (75 Ω) / 41.2 dBf
(75 kHz dev.)
Total harmonic distortion (1 kHz)
MONO.....0.6 % (65.2 dBf input)
STEREO.....0.7 % (65.2 dBf input)
Signal to noise ratio (1 kHz 75 kHz dev.)
MONO.....75 dB (65.2 dBf input)
STEREO.....68 dB (65.2 dBf input)
Stereo separation
1 kHz.....40 dB
Selectivity (IHF ±400 kHz).....50 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)
.....12 μV / (500 μV / m)
Signal to noise ratio (30 % mod., 1 mV input).....48 dB
Total harmonic distortion.....0.7 %
Selectivity.....30 dB

General

Power consumption.....4 A
AC outlet
SWITCHED.....2: (total 65 W, 0.54 A max.)
Dimensions.....W : 440 mm (17-5 / 16")
H : 148 mm (5-13 / 16")
D : 389 mm (15-5 / 16")
Weight (net).....10.2 kg (22.5 lb)

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