AM-FM STEREO RECEIVER

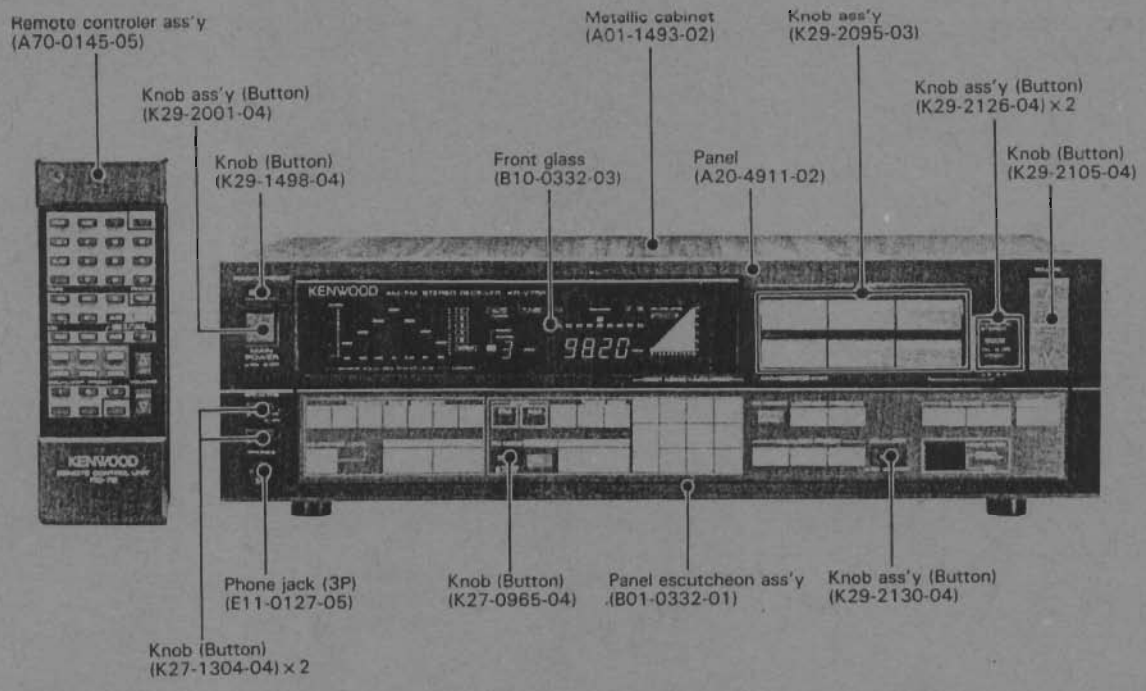
KR-V75R

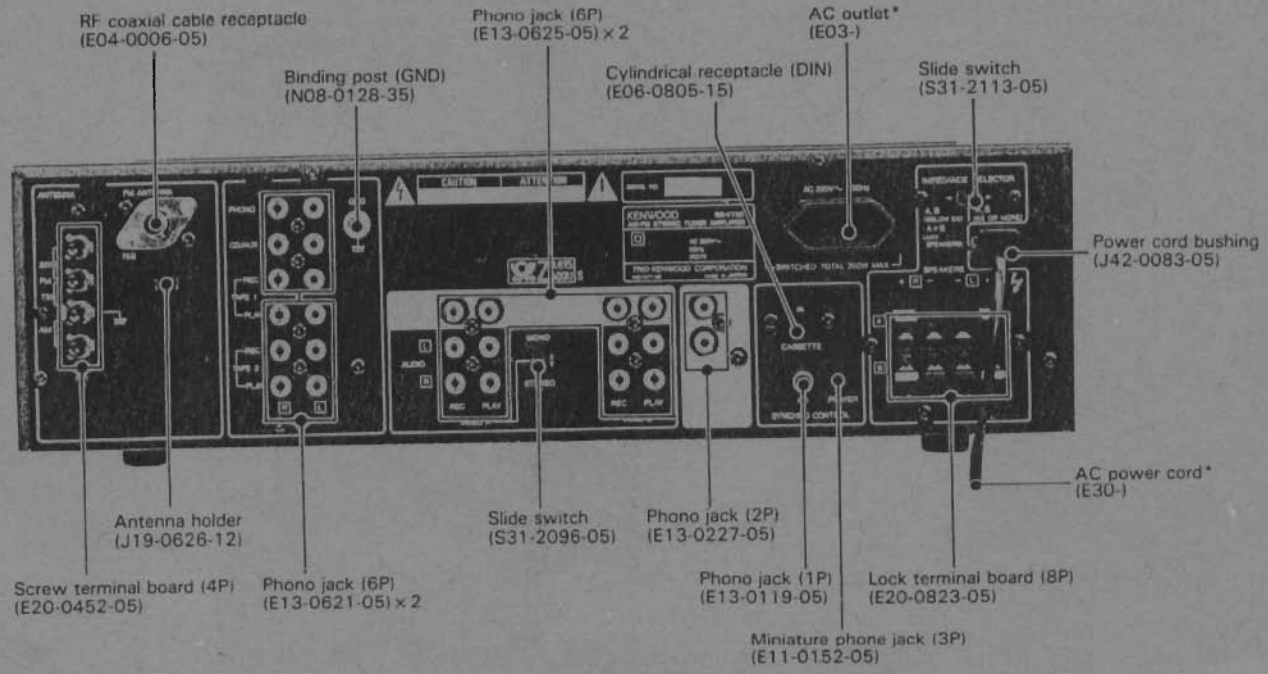
SERVICE MANUAL

KENWOOD

KENWOOD CORPORATION

B51-1984-00(T)1997

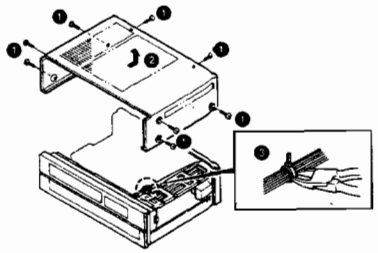




* Refer to Parts List on page 38.

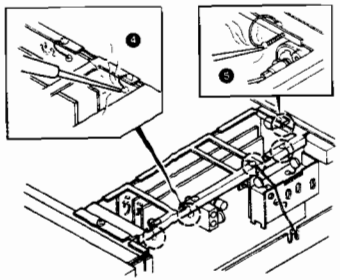
DISASSEMBLY FOR REPAIR

1. Remove 8 screws and remove the metallic cabinet (❶, ❷).
2. Cut the wire bands.

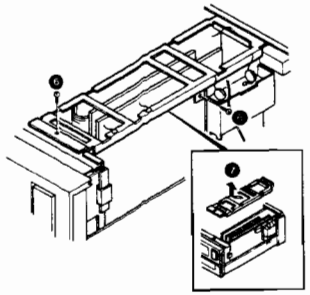


E-type only

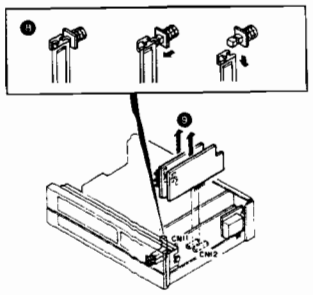
3. Unsolder by pass capacitor lead and ground lead from the frame (❹, ❺).



4. Remove 2 screws (❻).
   Slide out the frame as shown by the arrow (❼).



5. Take the knob jonts from the SYNTHETIC STEREO, VIDEO switches by following procedures (❽).
   a. Pull out the knob jont frontward till it stops.
   b. Slide the knob jont downward so that the switch shaft can be relieved from the cut part of the knob jont.
6. Pull out the video control pcb (X14-1790-11) (A/2) and receiver pcb (X14-1780-11) (D/5) (❾).



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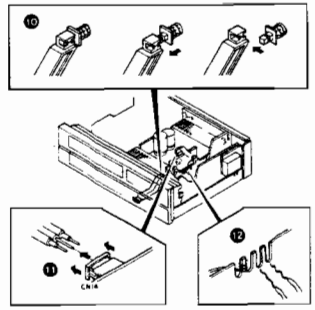
DISASSEMBLY FOR REPAIR

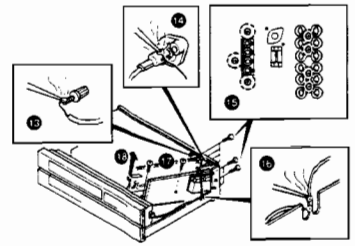
7. Take the knob jonts from the EQUALIZER switches by following procedures (❿).
   a. Pull out the knob jont frontward till it stops.
   b. Slide the knob jont downward so that the switch shaft can be relieved from the cut part of the knob jont.
8. Disconnect the paralled cord from receive pcb (X14-1780-11) (A/5) to power amp pcb (X07-2300-11) (B/6) (⓫).
9. Unwrap the ground lead from the receiver pcb (X14-1780-11) (A/5) (⓬).



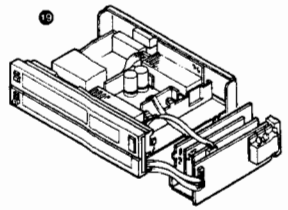
10. Unsolder the ground lead to the GND terminal (⓭).

E-type only

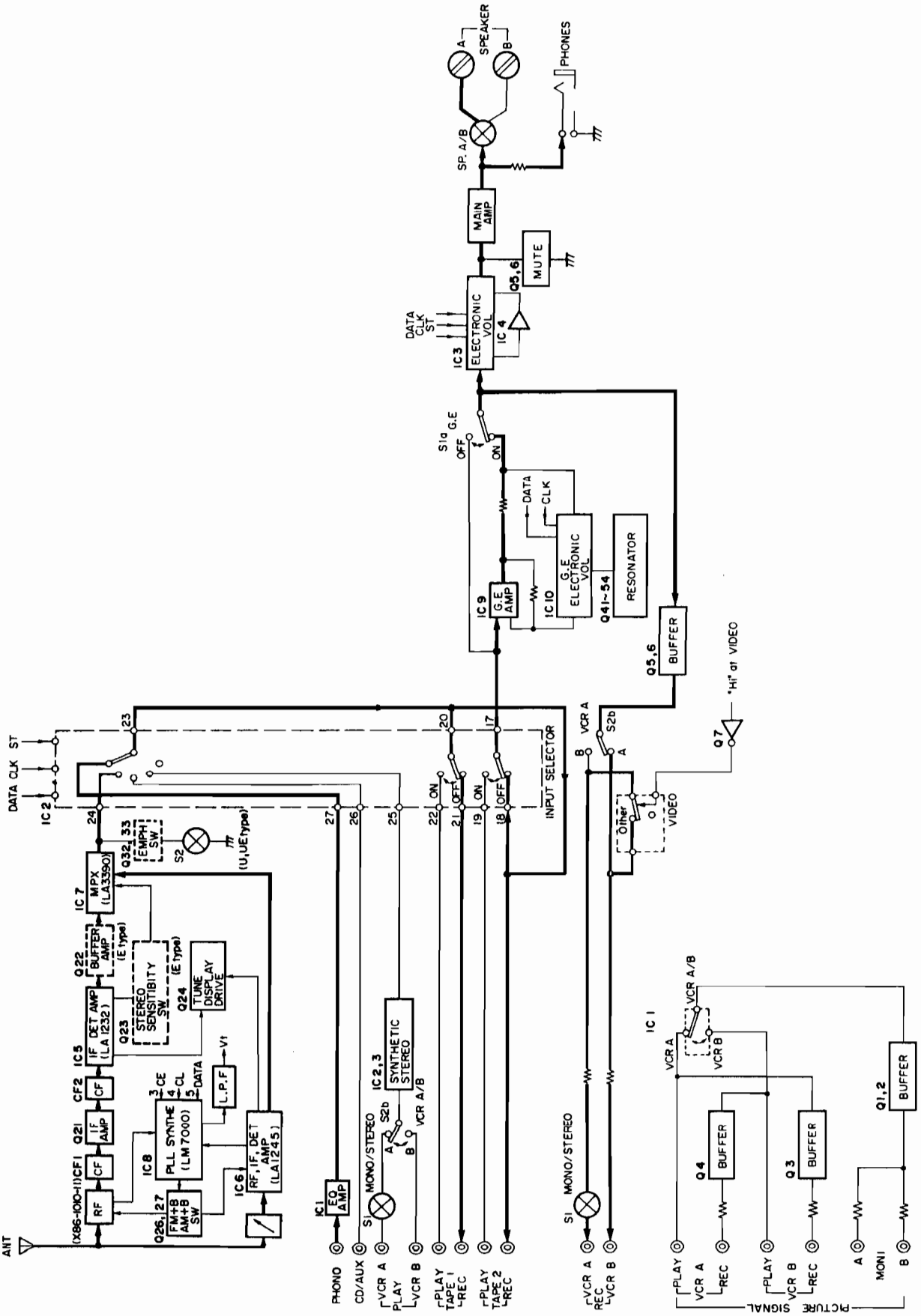
11. Unsolder the ground lead to coaxiale connector (⓮).
12. Remove 7 screws retaining the antenna terminal and phono jacks (⓯).
13. Unsolder the ground lead from the receiver pcb (X14-1780-11) (C/5) (⓰).
14. Remove 2 screws retaining the receiver pcb (X14-1780-11) (B/5) (⓱). This receiver pcb will be called mother pcb hereinafter.
15. Disconnect coaxiale cable from coaxiale receptacle. Lift the front side of the mother pcb and take it out to the side (⓲).



16. Plug in the video control pcb (X14-1790-11) (D/5), once taken out in step 6, back to the mother pcb.
17. The KR-V75R can be checked at this condition by grounding the ground leads which were taken off from the chassis.
18. The parallel cords disconnected in step 8 is a signal line to the power amp pcb (⓳).



BLOCK DIAGRAM



CIRCUIT DESCRIPTION

Power amplifier unit (X07-2300-11)

Components	Functions	Operations
IC1	Speaker protection/Relay driver	
IC2	Remote control sig. receiver	
Q1 ~ Q4	Power amplifier (1st diff. AMP)	
Q5 ~ Q8	Power amplifier (2nd diff. AMP)	
Q9 ~ Q12	Power amplifier (3rd diff. AMP)	
Q13, 14	Clamper	
Q15, 16	Constant current load	
Q17 ~ Q20	Power amplifier (Bias)	
Q21 ~ Q24	Power amplifier (Driver stage)	
Q25 ~ Q28	Power amplifier (Final stage)	
Q29, 30	Power limiter detection	
Q31, 32	Overload detection	
Q33	Power limiter	
Q34 ~ Q36	+14 V AVR	
Q37 ~ Q40	+5 V AVR	Q39 detects POWER DOWN
Q41 ~ Q44	−14 V AVR	
Q45 ~ Q46	−20 V AVR	
Q47	−30 V AVR	
Q48, 49	+5 V AVR for remote control function	
Q50 ~ Q52	Power supoly relay (K2) driver	

Display unit (X14-1770-11)

Components	Functions	Operations
IC1	Micro processor	
IC2	Graphic equalizer display	BPF outputs conv. for dynamic display
IC3, 4	BCD to decade decoder	Extents signal output line
Q1	Fip driver (tuned)	
Q2	Fip driver (stereo)	
Q3	Fip driver (defeat)	
Q4	MUT 2 sig.	Outputs for muting when VOL is mini.
Q5 ~ Q9	Fip driver	
Q10 ~ Q15	STROBE/DATA/CLK control	

VIDEO control unit (X14-1790-11)

Components	Functions	Operations
IC1	Picture sig. selecting	
IC2, 3	Synthetic stereo	Buffer amplifier/3 BPF
IC4	REC sig. (Audio) selecting	
Q1 ~ Q4	Buffer amplifier (Picture sig.)	
Q5, 6	Buffer amplifier (Audio sig.)	
Q7	Inverter	

CIRCUIT DESCRIPTION

Receiver unit (X14-1780-11)

Components	Functions	Operations
IC1	EQ amplifier	
IC2	Input selecting	Phono/CD/VCR/TUNER
IC3	Electronic volume	
IC4	Buffer amplifier	
IC5	FM IF/DET	
IC6	AM RF/MIX/IF/DET	
IC7	FM MPX	
IC8	PLL synthesizer	
IC9	Buffer amplifier (Graphic equalizer)	
IC10	Electronic volume for Graphic equalizer	
IC11 (1/2)	Mixing amplifier	
(2/2)	B.P.F	
IC12 ~ IC14	B.P.F	
Q5 ~ Q7	Muting (Audio sig.)	
Q21	FM 1st IF	
Q22	Buffer amplifier	
Q23	Stereo sensitivity SW	
Q24	Tuning display drive	
Q26, 27	+B AM/FM switching	Tr / MODE: Q26 OFF ON; AM: OFF ON; FM: ON OFF
Q28, 29	LPF (PLL synthesizer)	
Q30	Ripple filter	
Q31	+5 Volt AVR	
Q32, 33	Emphasis selecting	
Q41	Simulated inductor	
Q55, 56	Clamper	Generats reference voltage.

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CIRCUIT DESCRIPTION

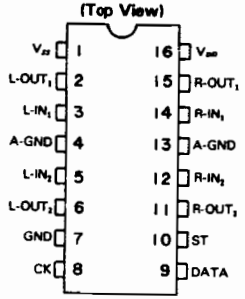
Electronic volume: IC3 (TC9176P)

The TC9176P is an electronic volume specially developed for audio equipment.
The volume and balance can be controlled by inputting external serial data.

- Volume control possible in 40 steps; 0 dB to −76 dB in 2 dB steps plus −∞.
- Built-in L and R channel volumes can be controlled independently, making possible the balance control function.

Pin configuration

TC9176P
(Top View)



Functions of terminals (TC9176P)

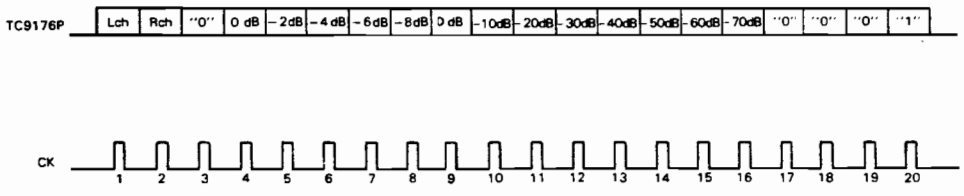
No.	Symbol	Functions	Remarks
2 15	L-OUT1 R-OUT1	10 dB step attenuator output. Signals applied to IN are attenuated into 8 steps; from 0 to −70 dB in 10 dB steps.	(L/R) 2/15 3/14 4/13 5/12 6/11
3 14	L-IN1 R-IN1	10 dB step attenuator input	
4 13	A-GND	AC ground terminals	
5 12	L-IN2 R-IN2	2 dB attenuator input	
6 11	L-OUT2 R-OUT2	2 dB attenuator output Signals applied to IN are attenuated in 5 steps; from 0 to 8 dB in 2 dB steps	
9	DATA	Attenuation/channel selection data input. The 20 bit data is input with the CK signal	Low-threshold input inverter
8	CK	Clock input Clock input is used to fetch the data input from the DATA terminal.	- do -
10	ST	Strobe input The attenuation/channel selection data input from the DATA and CK terminals are latched when the level of this terminal becomes "H" Old data is not changed when "H" level is not applied to this terminal.	- do -
16 7 1	V_{DD} GND Vss	(+) power supply terminal Ground terminal (−) power supply terminal	

CIRCUIT DESCRIPTION

Operation description

Setting the amount of attenuation

Desired attenuation data can be input to the TC9176P via the DATA, CK and ST terminals. This data consists of 20 bits.



For example, when a data (11001000001000000001) is input, the amount of attenuation is −22 dB.

Data bits 1 and 2 are used to select the L and R channels.

With the TC9176P, the 3rd bit is always "0"

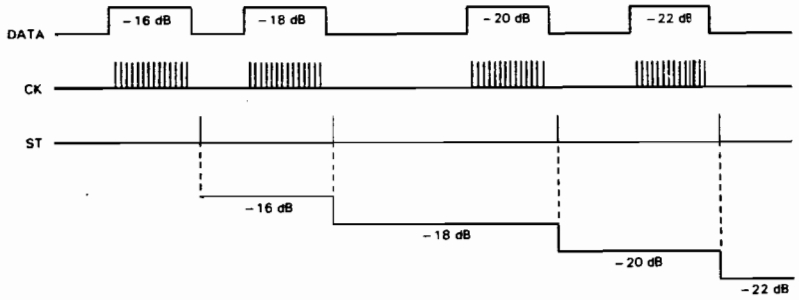
Bits 4 to 8 sets the 2 dB step attenuator and bits 9 to 16 sets the 10 dB step attenuator.

(As the TC9176P is not provided with loudness control, the level of the 3rd bit is always "L".)

Bits 17 to 20 are chip select bits. With the TC9176P, selection is performed by (0001) and it is not operative with bits other than (0001).

−∞ attenuation refers to the data for −78 dB. Consequently, one step above −∞ is −76 dB.

All changes to newly input data are synchronized with the rises of ST signal.



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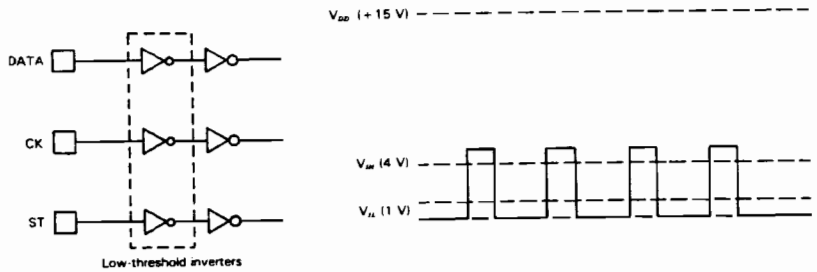
CIRCUIT DESCRIPTION

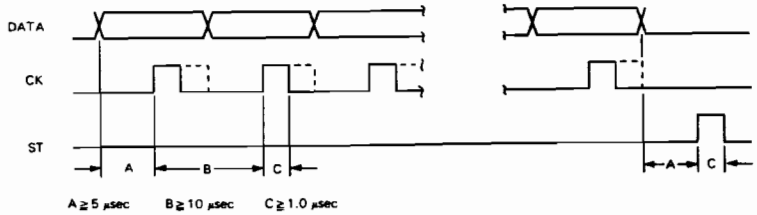
DATA, CK and ST inputs

Although the TC9176P usually operates on two power supplies (+) and (−), the DATA, CK and ST inputs are operated only with the (+) power supply because it incorporates a level shifter.

The input inverters for these three input terminals have low input threshold voltages and operate on the 5 V logic level.



DATA, CK and ST are input at timings shown below.



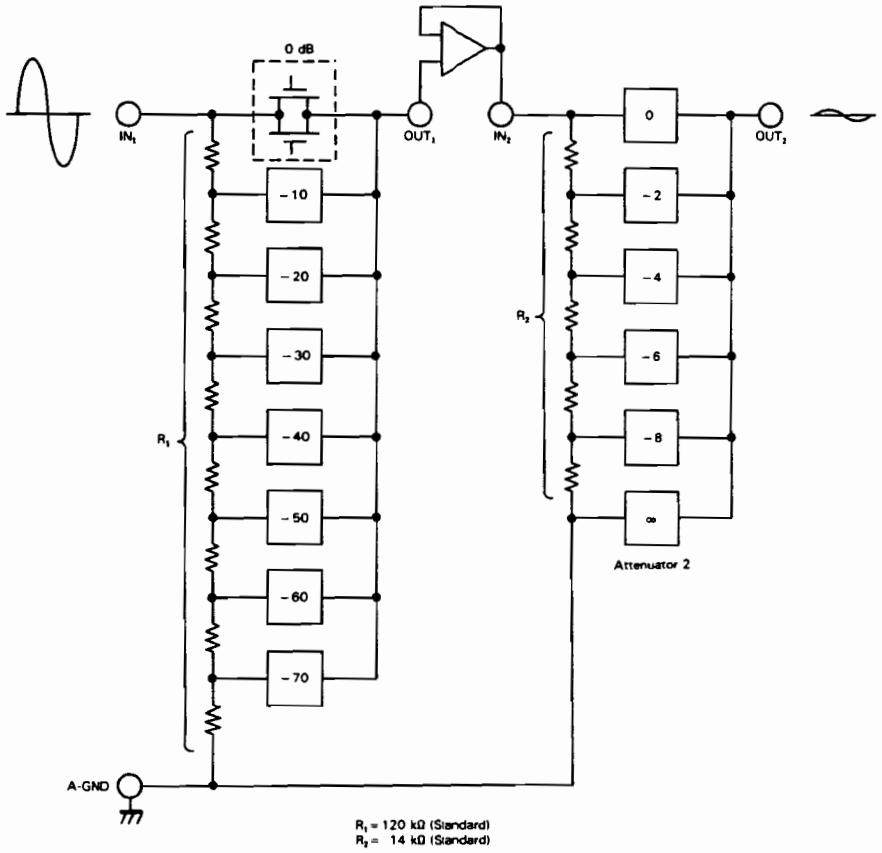
CIRCUIT DESCRIPTION

Attenuators

The attenuator section consists of diffused resistor arrays and analog switches.

Attenuator 1 allows attenuation from 0 to 70 dB in 10 dB steps and Attenuator 2 attenuation from 0 to 8 dB in 2 dB steps. Together, a total attenuation from 0 to 76 dB is possible in 2 dB steps.

Data Codes



R_1 = 120 kΩ (Standard)
R_2 = 14 kΩ (Standard)

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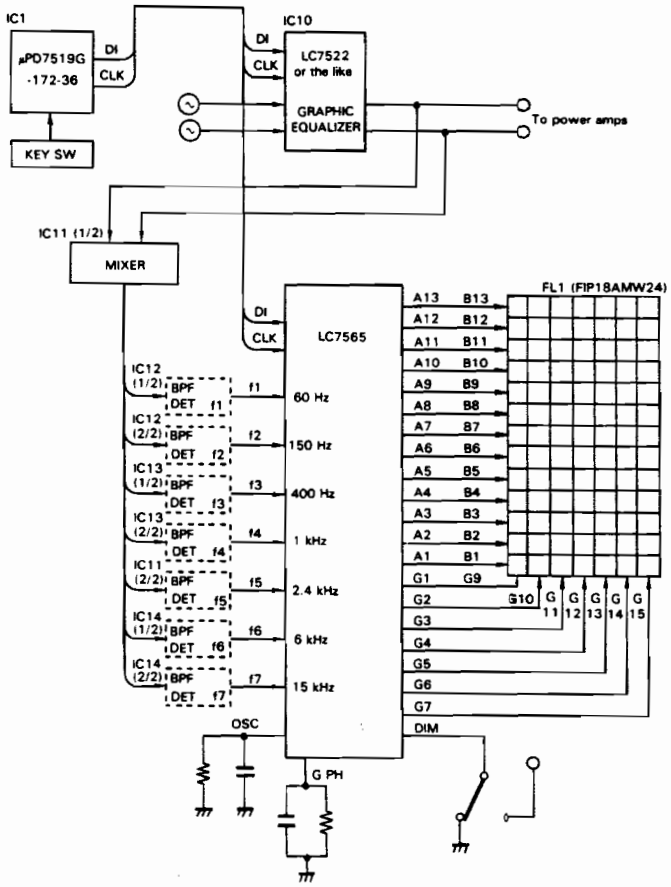
CIRCUIT DESCRIPTION

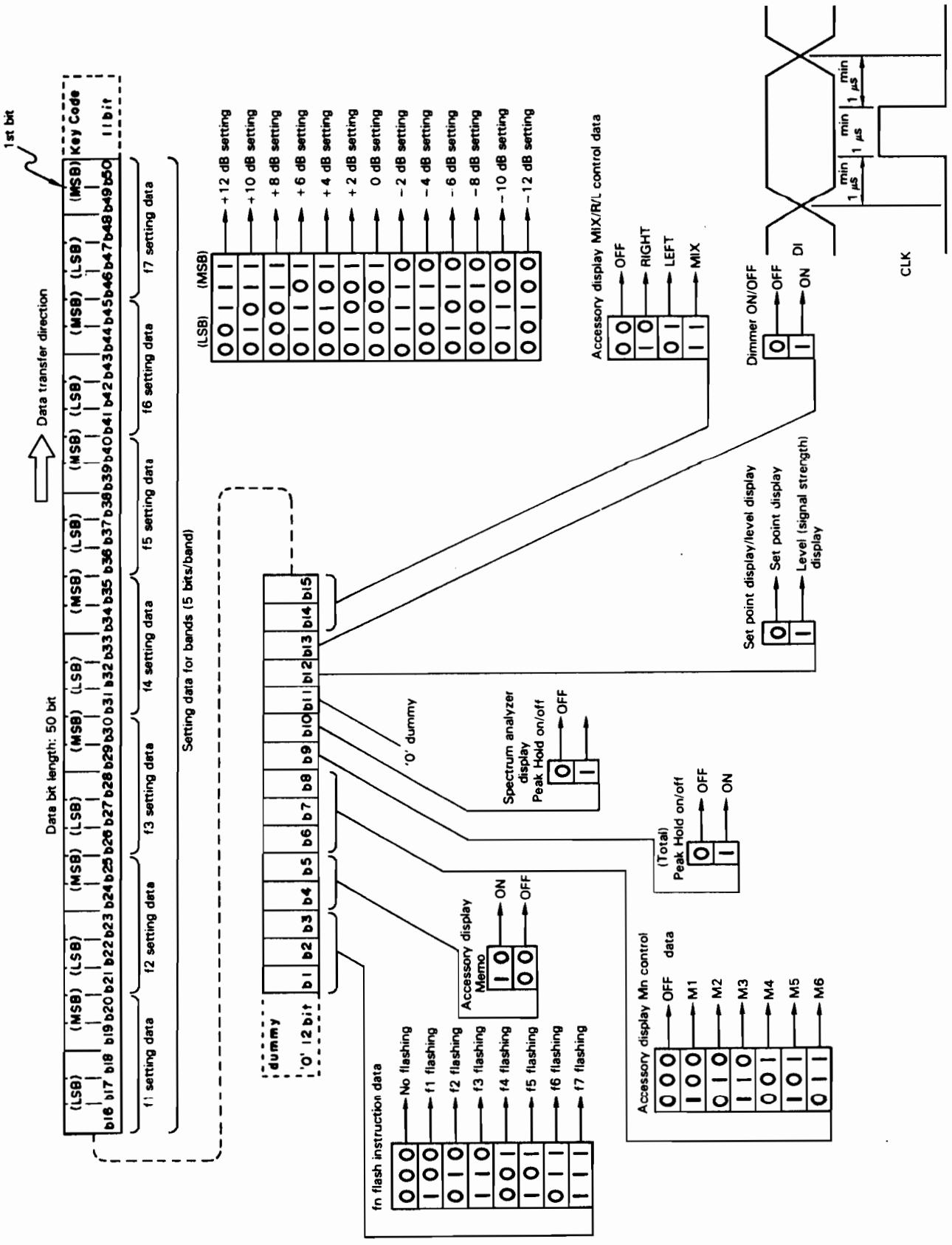
FLT Driver: IC 2 (LC7565)

Fluorescent display tube driver for display of graphic equalizer LC7522



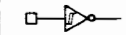
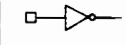
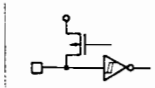
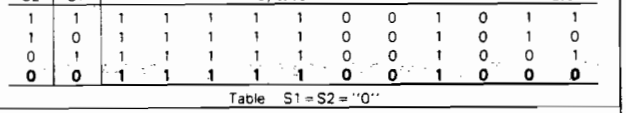
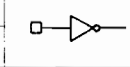
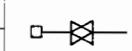
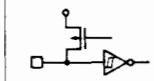
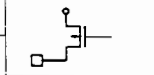
CIRCUIT DESCRIPTION

Data codes



CIRCUIT DESCRIPTION

Description of terminals

Name	Pin No.	Type	Description
V_{DD}	42		• Power supply terminal, +5 V type
V_{SS}	19		• Power supply terminal, GND
DI	17		• CPU data input terminal • Schmitt inverter type
CLK	18		• CPU CLK signal input terminal • Schmitt inverter type
S1	15		• Selection terminal when more than one chip (max. 4 chips) are used.
S2	16		• 
G.PH	21		• Connection terminal for C and R which determine the peak hold reset time of graphic equalizer's spectrum analyzer display
T.PH	22		• Connection terminal for C and R which determine the peak hold reset time of total display (Not connected)
DIM	32		• Terminal for direct drive of IC (when it is not controlled by the CPU) and for dimmer control • Dimmer ON by "1", OFF by "0"
f1 - f7, T	31 - 25 24		• Input terminal for audio signal rectifier voltage
OSC	20		• Open-drain type output buffer • Connection terminal for external C and R for the oscillator
A1 - A13	2 - 14		• Open-drain driver • Anode drive
G1 - G9	41 - 33		• Open-drain driver • Grid drive

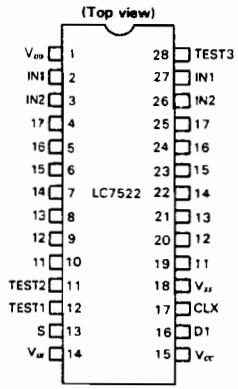
S2	S1	Key code										Last bit
1	1	1	1	1	1	1	0	0	1	0	1	1
1	0	1	1	1	1	1	0	0	1	0	1	0
0	1	1	1	1	1	1	0	0	1	0	0	1
0	**0**	**1**	**1**	**1**	**1**	**1**	**0**	**0**	**1**	**0**	**0**	**0**

Table S1 = S2 = "0"

Graphic equalizer; IC10 (LC7522)

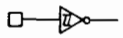
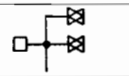
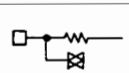
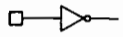
Pin configuration

(Top view)

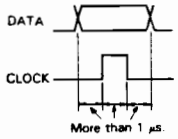


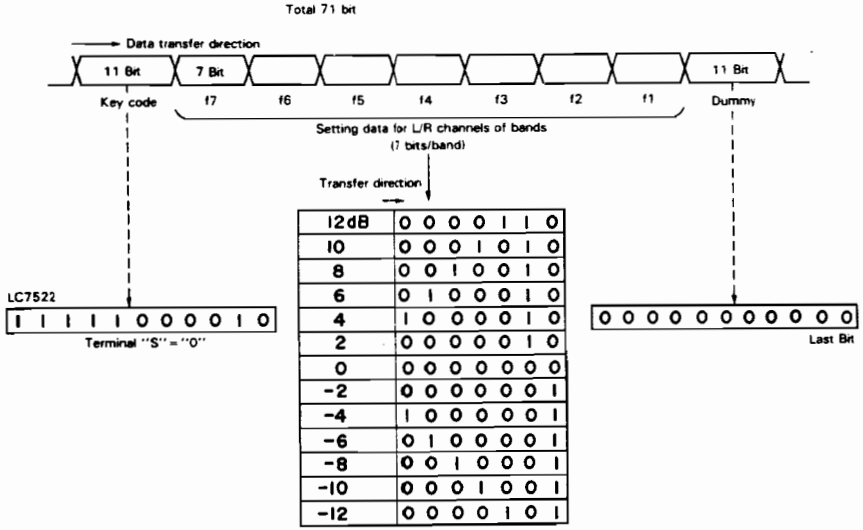
CIRCUIT DESCRIPTION

Description of terminals

Name	Type	Description
V_{DD} V_{SS}, V_{EE} V_{CC}		Power supply terminal +7 V (typ.) audio signal power supply Power supply terminal 0 V Power supply terminal +5 V (typ.)
DI		• CPU data input terminal • Schmitt inverter type
CLK		• CPU clock signal input terminal • Schmitt inverter type
IN1 IN2		• Audio signal input terminals • IN1 is normally connected with the inverted input of the op-amp • IN2 normally connected with the non-inverted input of the op-amp • Separately provided for L and R
f1 - f7		• BPF connection terminals • f1 to f7 × L/R = Total 14 terminals
S		• Selection terminal for two-chip operation • Key code 7C2 with input "0" - Connected to V_{EE}
TEST1 TEST2 TEST3		• Terminals for IC internal testing • Set to GND

Data codes





12dB	0 0 0 0 1 1 0
10	0 0 0 1 0 1 0
8	0 0 1 0 0 1 0
6	0 1 0 0 0 1 0
4	1 0 0 0 0 1 0
2	0 0 0 0 0 1 0
0	0 0 0 0 0 0 0
-2	0 0 0 0 0 0 1
-4	1 0 0 0 0 0 1
-6	0 1 0 0 0 0 1
-8	0 0 1 0 0 0 1
-10	0 0 0 1 0 0 1
-12	0 0 0 0 1 0 1

KR-V75R

CIRCUIT DESCRIPTION

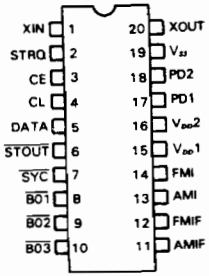
PLL Frequency synthesizer for electronic tuning; IC8 (LM7000)

Features

- High-speed program divider with possibility of direct dividing of FM band VCO.
- 7 reference frequencies: 100, 50, 25, 10, 9, 5 and 1 kHz
- Band switching output (3-bit)
- Clock output for controller (400 kHz)
- Timebase output for clock (8 Hz)
- Serial data input (via CE, CL and DATA terminals)
- IF counter circuit built in
  FM : ±10 kHz
  MW/SW : ±3 kHz
  LW : ±0.6 kHz

Pin configuration

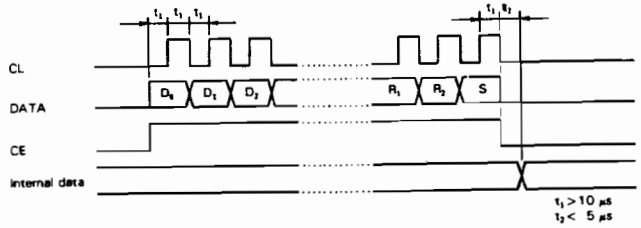
LM7000
(Top View)

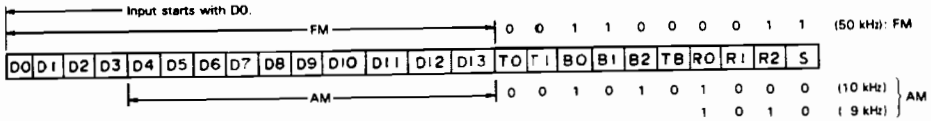


Description of tarminals

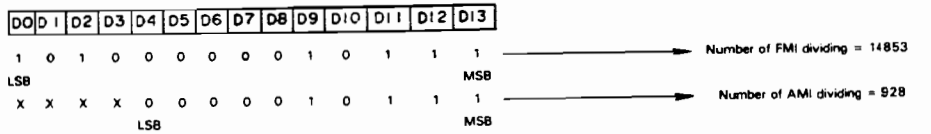
SYC	:	Clock for controller (400 kHz)
XIN, XOUT	:	X'tal OSC (7.2 MHz) Feedback resistor attached externally
FMI, AMI	:	Local oscillator signal inputs
CE, CL, DATA	:	Data inputs
B01, B02, B03	:	Band data outputs B01 can be assigned for timebase output (8 Hz)
STRQ	:	IF counting request input
STOUT	:	Auto-search stop signal output
$V_{DD}1$, $V_{DD}2$, V_{SS}	:	Power supplies ($V_{DD}2$ is the backup power supply.)
AMIF, FMIF	:	IF signal inputs
PD1, PD2	:	Charge pump outputs

Data inputs





1) D0 (LSB) - D13 (MSB): Dividing number data
FMI: D0/D13
AMI: D4/D13



CIRCUIT DESCRIPTION

2) T0, T1: For testing (0,0) of LSI.

3) B0 to B2, TB: Band data.
Timebase data

Input				Output		
B0	B1	B2	TB	$\overline{B01}$	$\overline{B02}$	$\overline{B03}$	
0	0	0	0	*	*	*	
0	0	1	0	0	0	1	
0	1	0	0	0	1	0	
0	1	1	0	0	1	1	
1	0	0	0	1	0	0	
1	0	1	0	1	0	1	—AM (9 kHz)
1	1	0	0	1	1	0	—FM (50 kHz)
1	1	1	0	1	1	1	
0	0	0	1	TB	*	*	
X	1	0	1	TB	1	0	
X	0	1	1	TB	0	1	
X	1	1	1	TB	1	1	

* : Determined by R0 to R2.
X : Either
TB : 8 Hz

4) R0 to R2: Reference frequency data

R0	R1	R2	fref	$\overline{B01}$	$\overline{B02}$	$\overline{B03}$	IF counting
0	0	0	100 kHz	1	1	0	10.7 MHz ±10 kHz
0	0	1	50 kHz	1	1	0	
0	1	0	25 kHz	1	1	0	
0	1	1	5 kHz	0	0	1	450 kHz ±3 kHz
1	0	0	10 kHz	1	0	1	
1	0	1	9 kHz	1	0	1	
1	1	0	1 kHz	0	1	1	450 kHz ±0.6 kHz
1	1	1	5 kHz	0	0	1	450 kHz ±3 kHz

Note: When B0 to B2 = 0

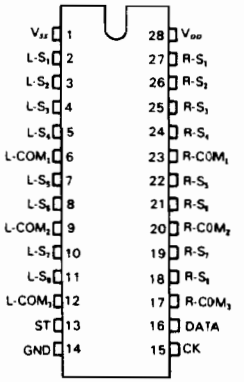
5) S: Dividing select data
1: FM
0: AM

High-voltage resistant analog function switch array; IC2 (TC9164N)

The TC9164N is an analog switch array resistant to high voltages. Control of analog switches is possible by inputting specified serial data.
Analog switches can be controlled independently so the switch array can cover a wide range of operations according to its external connection.

Pin configuration

TC9164N
(Top view)



KR-V75R

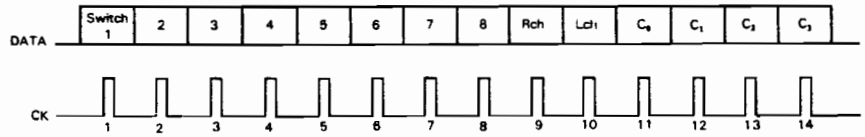
CIRCUIT DESCRIPTION

Operation description

Data input

Analog switches of the TC9164N can be controlled as desired by inputting specified data to the DATA, CK and ST terminals.

The data is composed of 14 bits and the composition is as shown below.



Bits 1 to 8 correspond to analog switches 1 to 8: Set the bits of the switches to turn ON to level "1". Bits 9 and 10 are the L/R channel selector bits: As channels can be selected by setting these bits to level "1", channels can be selected simultaneously ("1", "1") or independently ("1", "0" or "0", "1").

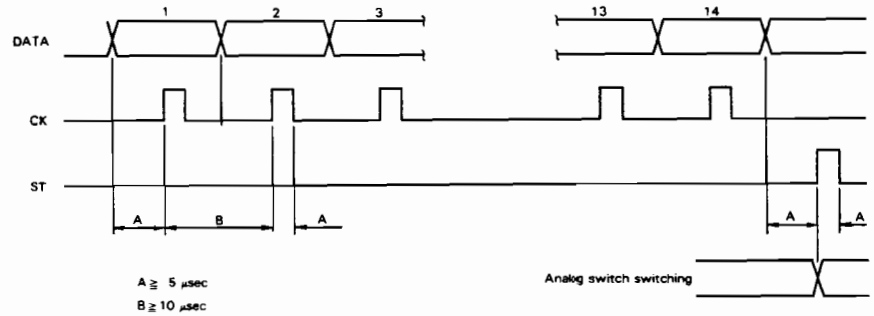
Bits 11 to 14 are code bits used for selecting chips.

Codes are specified as shown below.

	C_0	C_1	C_2	C_3
TC9164N	0	1	0	0

Timings of DATA, CK and ST

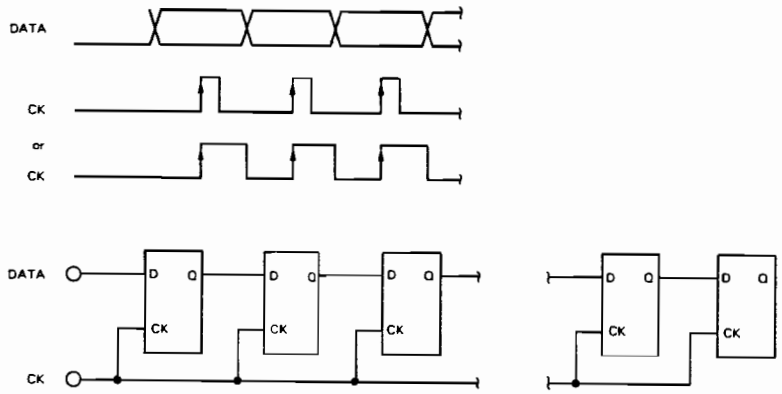
The DATA, CK and ST timings are input to the conditions shown below.



A ≧ 5 μsec
B ≧ 10 μsec

CIRCUIT DESCRIPTION

The DATA inputs are input in sequence to the internal shift register at the rises of the CK inputs.



The final ST signal is used to transfer the input data from the shift register to latch circuit, and data is updated from old data to new data.

KR-V75R

CIRCUIT DESCRIPTION

Key matrix distribution

The key matrix uses the outputs obtained from the microprocessor's port outputs using 4 to 10 decoders (Q_0 - Q_9) and the microprocessor's output ports for the strobe signals, and four return signal ports are used to make the matrix.

OUTPUT \ INPUT	P10 (20)	P11 (21)	P12 (22)	P13 (23)
Q_0	0	4	8	FM
Q_1	1	5	9	AM
Q_2	2	6	DOWN	MEMORY
Q_3	3	7	UP	AUTO/MANUAL
Q_4	GE MEMORY	GE f4	**	GE A
Q_5	GE f1	GE f5	GE 1	GE B
Q_6	GE f2	GE f6	GE 2	GE DOWN
Q_7	GE f3	GE f7	GE 3	GE UP
Q_8	POWER	TAPE1	VOL DOWN	DIRECT
Q_9	PHONO	TAPE2	VOL UP	PRESET SCAN
P30 (59)	TUNER	VIDEO	BAL R	PRESET FUNCTION A/B
P31 (60)	AUX/CD	MUTE	BAL L	
P32 (61)	*REMOTE CONTROL or NOT	*(J) DESTINATION	*BAND 0	*BAND 1

- **Numbers inside ( ) are the pin Nos. of the microprocessor.**
- **Switches are momentary switches except those marked.**
  *** which are diode switches.**
- **KEY input levels are Active High.**

- ****EQ/ANALYZER ON/OFF SW; (KR-V125R and KR-V95R).**
- ****EQ/POWER LEVEL ON/OFF SW; (Except KR-V75R)**

Description of key matrix

Functions of initial setting diode matrix

The initial setting diode matrix includes the following four types of data, which are read at the time of reset.

(1) Remote controlled or not
  0: Not remote controlled. Resetting always leads to the power ON status.
  1: Remote control function used. Resetting leads to the previous power status. The initial condition is the power OFF status.

(2) (J) destination
  0: Destination is other than (J) so switches BAND0 and BAND1 are effective.
  1: Destination is set for (J) so switches BAND0 and BAND1 are ineffective.

(3) BAND0, BAND1
  Effective for models with destinations other than for (J), so that the FM and AM channel spaces can be set

The reception conditions of different models with different destinations are shown below.

Band	Destination J	Band 0	Band 1	Reception Frequency Range	Channel Space	Reference Frequency	Intermediate Frequency
FM	0	0	–	87.5 ~ 108.0 MHz	100 kHz	50 kHz	10.7 kHz
	0	1	–	87.5 ~ 108.0 MHz	50 kHz	50 kHz	10.7 MHz
	1	–	–	76.0 ~ 90.0 MHz	100 kHz	50 kHz	– 10.7 MHz
AM	0	–	0	530 ~ 1610 kHz	10 kHz	10kHz	450 kHz
	0	–	1	531 ~ 1602 kHz	9 kHz	9 kHz	450 kHz
	1	–	–	531 ~ 1602 kHz	9 kHz	9 kHz	450 kHz

CIRCUIT DESCRIPTION

- **Functions of momentary switches**

Symbols	Functions
POWER	Receiver system power supply ON/OFF key. Power ON/OFF is inverted each time this key is pressed and the POWER terminal (pin 13) is turned ON/OFF. At initial power switching (when the main power switch is set to ON after connecting the power plug), operation starts with the Power OFF status **(KR-V125R/V95R/V75R)**. The initial Power ON status condition is as follows. • Input selector: TUNER • Tuner condition : FM lowest value, MANUAL Tuning, all preset memories at the FM lowest value • Volume : −56 dB • Balance : Center • Graphic equalizer memories: All flat = ±0 dB In the Power ON status, all keys (including remote control) are acceptable. In the power OFF status, only the POWER key is acceptable and other keys are not acceptable. After this, last statuses (statuses previous to switching power OFF) are recalled by the Power ON statuses. When the Input Selector was set to PHONO before switching power OFF, it becomes PHONO when power is next switched ON. When the volume was -40 dB, it also becomes −40 dB
PHONO TUNER AUX/CD TAPE 1 VIDEO	Input selector keys. Pressing one of these keys switches the position and the input selector character display as shown below is displayed, except that frequency is displayed when TUNER is selected. The input selector key is invalid when the key the same as the current position is pressed. Muting signal (MUTE 1) is output during switching when the key operation is valid. TAPE 1 is treated as one of sources. The TAPE 1 REC switch is OFF in the TAPE 1 position and ON in other positions. PHONO TUNER TAPE 1 VIDEO
TAPE 2	TAPE 2 is initially set to MONITOR. Switching between SOURCE/MONITOR is possible using this key. Muting signal (MUTE 2) is output during switching. The TAPE 2's PLAY switch is OFF and REC switch is ON in SOURCE mode. The PLAY switch is ON and REC switch is OFF in MONITOR mode. The Input selector uses an analog function switch array IC TC9164N, the switch location of which is as shown below. (Refer to page 17)
VOL UP VOL DOWN	These are the audio volume UP/DOWN keys. The volume control is performed by electronic volume IC TC9176P, which is controlled by the microprocessor. The volume is variable in 40 2-dB steps by pressing the VOL UP or VOL DOWN key (−∞, −76 to −0 dB). When power is switched ON, −56 dB is output as the initial value. The attenuation is increased or decreased by each press of the VOL UP or VOL DOWN key. When a key is held pressed for more than approx. 0.5 sec, the amount of attenuation is varied until the key is released at a speed of approx. 120 ms/step. However, the attenuation does not vary when the VOL MAX value (−0 dB) is reached in UP operation or when the VOL MIN value (−∞ dB) is reached in DOWN operation. The value of attenuation is displayed digitally during the VOL UP/DOWN key operations. -38dB However, during direct input, auto-scanning and preset scanning, the frequency display is given priority and the value of attenuation is not displayed. The volume is also displayed permanently by the 11-point bar graph displays.
MUTE	The audio volume can be temporarily reduced by −20 dB from the current position by pressing this key. Setting and release of MUTING (−20 dB) is performed with this key and release is not possible even by switching power ON/OFF, etc. MUTING (−20 dB) is performed by electronic volume IC TC9176P which varies the output data. The MUTING (−20 dB) display blinks during this mode.
BAL R BAL L	These are the balance control keys. Each of the L and R keys internally has a 4-bit, 10-step counter, which counts up/down when the key is pressed. The electronic volume data is elaborated using the counter value and output to control electronic volume IC TC9176P. 21 balance positions are provided. Each press of the BAL R/L key shifts the balance position by one step. When a key is held pressed for approx. more than 0.5 sec, the positions are scanned at a speed of approx. 300 ms/step until it stops when the R or L end position is reached.
GE UP GE DOWN	These keys are used to set the boost, cut, etc. of the graphic equalizer. These keys are valid only when the graphic equalizer display is flashing after GE keys f1 (60 Hz) to f7 (15 kHz) have been operated. The graphic equalizer level can be varied in 13 2-dB steps between MAX +12 dB and MIN −12 dB. This operation is performed using graphic equalizer/ spectrum analyzer display IC LC7565 and graphic equalizer IC LC7522. Each press of a key varies the level of the graphic equalizer for the specified frequency band by 1 step. When the key is held pressed for approx. more than 0.5 sec, the level is varied UP or DOWN at a speed of 120 ms/step.

KR-V75R

CIRCUIT DESCRIPTION

Symbols	Functions
GE f1 (60 Hz) GE f2 (150 Hz) GE f3 (400 Hz) GE f4 (1 kHz) GE f5 (2.4 kHz) GE f6 (6 kHz) GE f7 (15 kHz)	These keys are used to select the frequency bands of the graphic equalizer when setting its levels. When any of these keys is pressed, the display changes to the graphic equalizer display even during spectrum analyzer display, with the graphic equalizer display corresponding to the frequency band selected flashing to indicate that the graphic equalizer can be operated. If the GE UP or DOWN key is not pressed for approx. 5 seconds, flashing stops and the display is changed to the ordinary graphic equalizer display.
GE MEMORY	This key is used to write the graphic equalizer condition in the graphic equalizer memory. When this key is pressed, "MEMORY" lights, "◄" on the side of the GE 1 to 3 displays flashes, and graphic equalizer memory storage becomes possible. This condition lasts for approx. 5 sec and the current graphic equalizer condition can be stored in the specified memory by pressing one of GE 1 to 3 keys during this period. This key is valid only during graphic equalizer display mode.
GE 1 GE 2 GE 3	These graphic equalizer preset keys correspond to the three programmable graphic equalizer memories and are used for write and read operations of graphic equalizer memories. • For programming, press the GE MEMORY key, then press one of the GE 1 to 3 keys within approx. 5 sec (while "MEMORY" is lit and "◄" is flashing). The current graphic equalizer condition is written in the graphic equalizer memory corresponding to the key selected. • For recalling, press one of the GE 1 to 3 keys. The corresponding graphic equalizer condition will be recalled. In either cases, if normal display mode is set for the spectrum analyzer display, graphic equalizer display lasts for approx. 5 sec, after which the spectrum analyzer display resumes.
GE A GE B	Used to recall the graphic equalizer's preset memories. Pressing one of these keys recalls the corresponding graphic equalizer condition. The condition of the preset memories is as follows: Frequency band / Preset memory: f1 / f2 / f3 / f4 / f5 / f6 / f7 GE A (Loudness): +4dB / +2dB / ±0dB / −2dB / −2dB / ±0dB / +2dB GE B (Presence): +2dB / ±0dB / −2dB / +2dB / +4dB / ±0dB / −2dB
Spectrum analyzer ON/OFF (EQ/ANALIZER) **(KR-V125R V95R)**	This key switches between the spectrum analyzer and graphic equalizer display modes. When the key is pressed, the spectrum analyzer display is changed to graphic equalizer display and graphic equalizer display is changed to spectrum equalizer display. The graphic equalizer operation ready status is released and changed to the spectrum display by this key. When the graphic equalizer display has been displayed by recalling a graphic equalizer memory, the condition before the recall is displayed; the graphic display is not changed when the previous condition was graphic display and is changed to spectrum analyzer display when the previous condition was spectrum analyzer display.
EQ/POWER LEVEL **(KR-V75R)**	This key switches between the graphic equalizer and power level display modes. When this key is pressed, the graphic equalizer display is changed to power level display and power level display is changed to graphic equalizer display. The graphic equalizer operation ready status is released and changed to the power level display by this key. When the graphic equalizer has been displayed by recalling a graphic equalizer memory, the condition before the recall is displayed, the graphic equalizer display is not changed when the previous condition was graphic equalizer display and is changed to power level display when the previous condition was power level display.
0, 1, 2, 3, 4, 5, 6, 7, 8, 9	Digit keys, preset channel memory programming keys and recall keys. (1) Operation as digit keys Input the frequency using these keys in the direct frequency input operation. (2) Operation as preset channel memory keys Each of these keys corresponds to two preset channel memories. The two memories are distributed by the A and B preset functions. • Programming Within approx. 5 sec. of pressing the MEMORY key, select A or B using the Preset Function key, then press one of keys 0 to 9. The frequency being tuned in is programmed in the memory corresponding to the key pressed. • Recalling By combination of keys 0 to 9 and the Preset Function key, a preset memory corresponding to the selected keys is recalled.

CIRCUIT DESCRIPTION

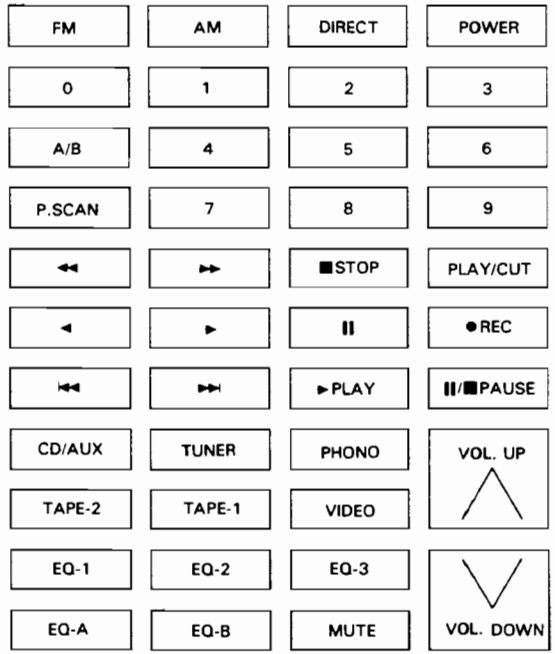
Symbols	Functions
UP DOWN	When these auto/manual tuning keys are pressed, the following operations are performed. These keys are valid only with the TUNER position of the Input Selector. (1) When the AUTO/MANUAL switch (Tuning mode) is set to AUTO, pressing the UP key scans the frequency upward in sawtooth wave mode and pressing the DOWN key scans it downward. When the input level at the SD terminal (pin 10) becomes Low at this time, frequnecy scanning is stopped and auto-tuning is stopped. (2) When the AUTO/MANUAL switch is set to MANUAL, pressing the UP or DOWN key changes the tuning frequency by one step (channel space) up or down. When a key is held depressed for more than approx. 0.5 sec, the frequency is scanned up/down at a speed of 125 ms/step until the key is released. At band edges, tuning is interrupted for approx. 0.5 sec.
FM AM	FM/AM band switching keys. When one of the keys is pressed, the reception band is switched to the corresponding band, at the last frequency, which is the frequency the unit was tuned in the last time the band was selected. This key is valid only in the TUNER position and is invalid when the key the same as the present band is pressed.
MEMORY	Used to program a new frequency in the preset channel memory. Within 5 sec of pressing this key, select A or B of the Preset Function key, then press one of the 10 digit keys so that the frequency being tuned in is programmed in the preset channel memory corresponding to the keys pressed. However, this key is valid only in the TUNER position.
AUTO/MANUAL	Tuning mode switching keys. The modes are alternated each time this key is pressed. When this key is pressed during auto-tuning, autotuning stops and the unit enters manual tuning mode. This key is valid only in the TUNER position.
PRESET FUNCTION A/B	Preset mode A/B switching key. Used in combination with 10 digit keys to program or recall a preset channel memory. This key is valid only in the TUNER position.
DIRECT	Direct frequency input mode selection key. To tune into a frequency by inputting its value with the 10 digit keys, first press this key, then input the frequency data using the 10 digit keys. This mode is released when no key has been operated for approx. 5 sec. This key is valid only in the TUNER position.
PRESET SCAN	Preset scanning operation key. Pressing this key scans preset channel memory to the next memory when a preset channel has presently been received, and starts preset channel memory scanning from Channel A-0 when a preset channel is not being received presently. Channel A-9 is followed by B-0 and, after B-1, B-2, ... B-8, B-9 is followed by A-0. This key is valid only in the TUNER position.

KR-V75R

CIRCUIT DESCRIPTION

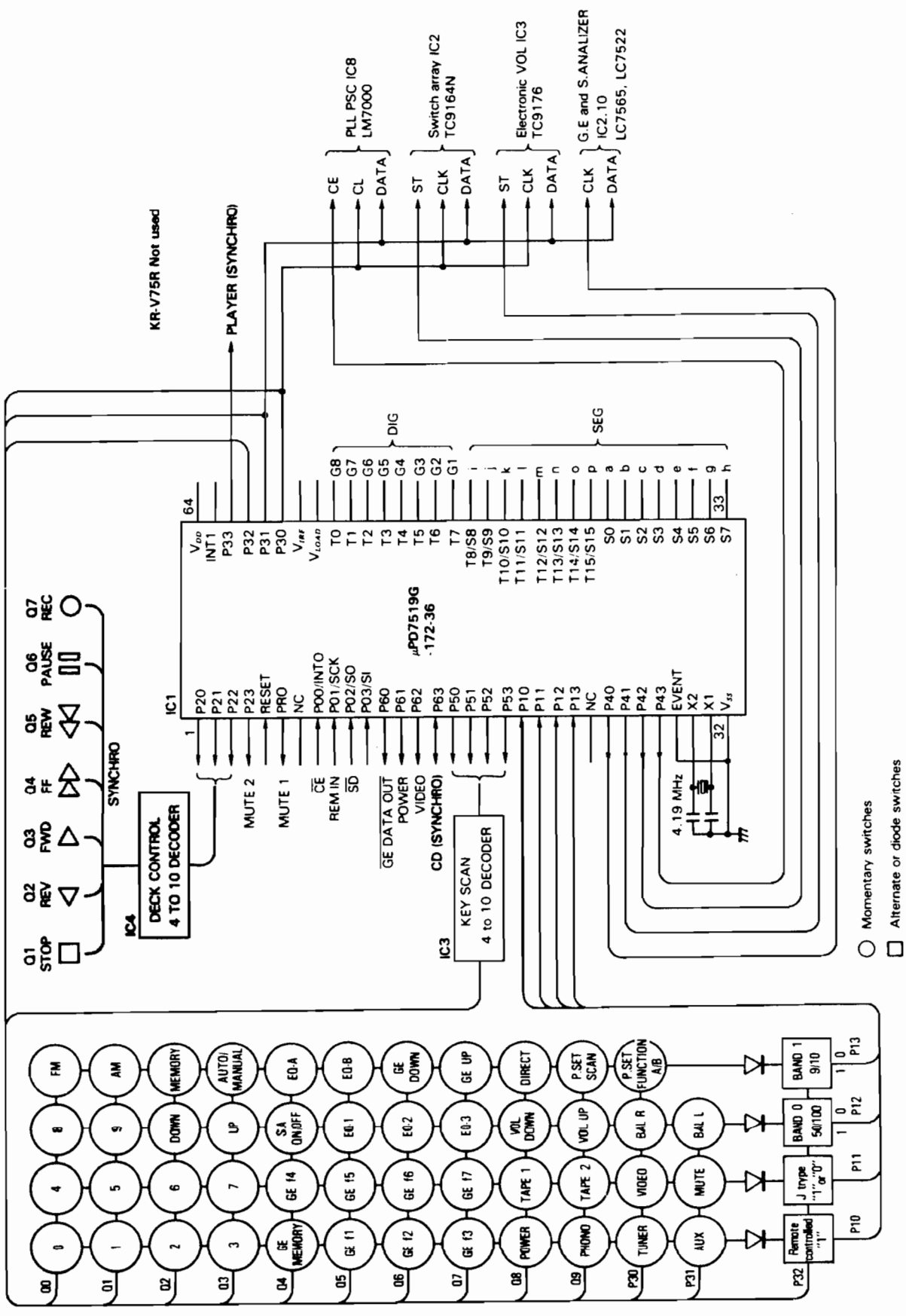
Functions of remote control keys

Keys on the remote control unit are arranged as shown below. Almost all keys are found on the key matrix on the main body and have exactly the same functions as the keys on it. The remote control unit is also provided with operation keys for the tape deck, turntable and CD player connected to the receiver. Their functions are described below.



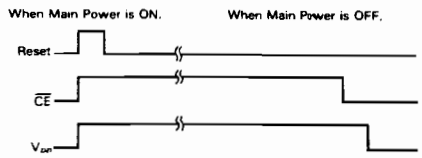
Symbols	Functions
PLAY/CUT	Turntable control key. Each press of this key reverses the High/Low level at the PLAYER terminal (pin 62). The turntable performs PLAY the operation at the rise and CUT operation at the fall of the pulse.
◄◄, ►► ◄►, IIPAUSE ●REC, ■ STOP	Tape deck control keys. When one of these keys is pressed, the code for signal output is output from the terminal corresponding to the key. Refer to the "Description of terminals" relaed to pins 1 to 3.
⏮, ⏭ ►PLAY, II/■PAUSE	CD player control keys. Communication with the microprocessor of the CD player is performed via the CD terminal (pin 15) by pressing this key. Refer to the description on CD communication processing.

CIRCUIT DESCRIPTION



CIRCUIT DESCRIPTION

Description of terminals: IC1 (μPD7519G-172-36) microprocessor

<table>
<tr><th>Pin No.</th><th>Symbols</th><th>I/O</th><th>Names</th><th>Functions</th></tr>
<tr><td>1 - 3</td><td>P20 - P22</td><td>O</td><td>TAPE DECK CONTROL OUT</td><td>Signals for tape deck control from the remote control unit. Tape deck control signals are generated by decoding signals from these three terminals. The IC4 (μPD4028BC) decoder is used and the connection between P20 to P22 and the decoder is:
P20 - A, P21 - B, P22 - C
<table>
<tr><th>P22(C)</th><th>P21(B)</th><th>P22(A)</th><th>Terminal becoming High</th><th>Instruction to deck</th></tr>
<tr><td>0</td><td>0</td><td>0</td><td>None</td><td>None</td></tr>
<tr><td>0</td><td>0</td><td>1</td><td>Q_1</td><td>STOP (■)</td></tr>
<tr><td>0</td><td>1</td><td>0</td><td>Q_2</td><td>PLAY (◄)</td></tr>
<tr><td>0</td><td>1</td><td>1</td><td>Q_3</td><td>PLAY (►)</td></tr>
<tr><td>1</td><td>0</td><td>0</td><td>Q_4</td><td>FF (►►)</td></tr>
<tr><td>1</td><td>0</td><td>1</td><td>Q_5</td><td>REW (◄◄)</td></tr>
<tr><td>1</td><td>1</td><td>0</td><td>Q_6</td><td>PAUSE (❚❚)</td></tr>
<tr><td>1</td><td>1</td><td>1</td><td>Q_7</td><td>REC (●)</td></tr>
</table>
Instructions to the tape deck are sent when the decoder output terminal becomes High for 100 ms.</td></tr>
<tr><td>4</td><td>P23</td><td>O</td><td>MUTE2</td><td>Muting signal for switching TAPE2 between SOURCE/MONITOR. Normally Low and Active High.</td></tr>
<tr><td>5</td><td></td><td></td><td></td><td>Reset input terminal.</td></tr>
<tr><td>6</td><td>PPO</td><td>O</td><td>MUTE1</td><td>Muting signal for Input Selector switching and tuner. Normally Low and Active High.</td></tr>
<tr><td>7</td><td>NC</td><td></td><td></td><td></td></tr>
<tr><td>8</td><td>P00/INT0</td><td>I</td><td>CE</td><td>Backup detection terminal. Timing chart is as shown below.
 
</td></tr>
<tr><td>9</td><td>P01/$\overline{SCK}$</td><td>I</td><td>REM IN</td><td>Remote control signal input terminal (Active Low) to be connected with the output of μPC1474HA.
Remote control transmission IC μPD6102G is used.</td></tr>
<tr><td>10</td><td>P02/SO</td><td>I</td><td>$\overline{SD}$</td><td>Station detection signal in auto-tuning, etc.
High : No station
Low : Station detected</td></tr>
</table>

CIRCUIT DESCRIPTION

Description of terminals

Pin No.	Symbols	I/O	Names	Functions
11	P03/SI	I		Non-used input ports. Set either to Low or High level
12	P60	O	$\overline{\text{GE DATA OUT}}$	Signal for preventing the P31 and P30 (key scan) signals, which are always output, being supplied to LC7522. This becomes Low only when data is written in LC7522 (GE IC).
13	P61	O	POWER	Power remote control output terminal (Active High). High (Power ON) and Low (Power OFF) are alternated each time the REMOTE POWER key is pressed
14	P62	O	VIDEO	High in the VIDEO position, Low in other positions
15	P63	I/O	CD	Port used for communication with the microprocessor of the CD player for its remote control
16 - 19	P50 - P53	O		Output ports for the 4 to 10 decoder IC3 (μPD4028BC). Output key strobe signals
20 - 23	P10 - P13	I		Key matrix return signal input terminals
24	NC			
25	P40	O		CLK terminal control port used when writing data (with serial input) in the graphic equalizer IC (LC7522) or graphic equalizer/spectrum analyzer display IC (LC7565). Refer to the documents describing LC7522 and LC7565
26	P41	O		Electronic volume IC (TC9176P) ST terminal control port. Normally High so that the P31 and P30 (key scan) signals, which are always output, are not supplied to TC9176P. Becomes Low only when writing data, after which the terminal level is raised. The ST signal is generated using this rise
27	P42	O		Switch array IC (TC9167N) control port. Normally High so that the P31 and P30 (key scan) signals, which are always output, are not supplied to TC9164N. Becomes Low only when writing data, after which the terminal level is raised. The ST signal is generated using this rise
28	P43	O		PLL IC (LM7000) CE terminal control port. Normally Low and High when writing data Refer to the documents describing LM7000
29	EVENT	I		Non-used input terminals. Set either to Low or High level
30, 31	X2,X1			System clock signal oscillation terminal. 4.19 MHz
32	Vss			GND terminal
33 - 40 41 - 48	S7 - S0 S15 - S8	O	SEG	FL display segment control terminals.
49 - 56	T1 - T	O	DIG	FL display digit control terminals.
57	V_{LOAD}			FL display drive power supply (−30 V)
58	V_{PRE}			Power supply for the pre-driver of FL display driver
59	P30	O		• Key strobe signal terminal • CLK terminal for writing data (serial input) in LM7000, TC9164N, TC9176P, LC7522 and LC7565

KR-V75R

CIRCUIT DESCRIPTION

Description of terminals

Pin No.	Symbols	I/O	Names	Functions
60	P31	O		• Key strobe signal terminal. • DATA terminal for writing data (serial input) in LM7000, TC9164N, TC9176P, LC7522 and LC7565.
61	P32	O		Key strobe signal terminal
62	P33	O		Turntable remote control terminal PLAY at rise and CUT at fall
63	INT1	I		Non-used input terminal. Set either to Low or High level.
64	V_{DD}			Power supply terminal

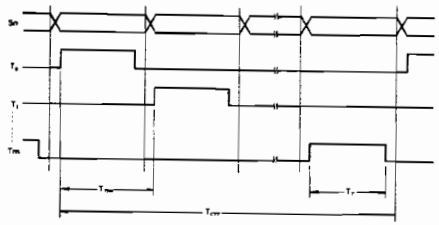
Display tube drive

The display tubes use FIP18AMW24 and are driven by spectrum analyzer/graphic equalizer IC2 LC7565 and this microprocessor.
Refer also to the item describing the display tubes.

(1) Graphic equalizer/spectrum analyzer display section (9G to 15G)
Spectrum analyzer/graphic equalizer IC LC7565 is used.
The duty ratio is 1/11.4 and scanning frequency is determined by connecting a C and R to the IC. The IC drives directly the display which has 8 digits and 13 segments

(2) Frequency and other item display section
This section is driven by the display output terminals of this microprocessor μPD7519G.

Waveforms of FIP display output



$T_{nw} = \frac{1}{fxx} \times 512$ (= 122 μ/4.19 MHz) or $\frac{1}{fxx} \times 1024$ (= 244 μS/4.19 MHz)

T_f = Programmable (8 × 2 variations possible depending on the content of blanking mode register and T_{nw})

$T_{CYC} = T_{nw} \times (m + 1) m = 0 - 15$ (1 to 16 digits)

Display mode register DM = 7: 16 segment mode
Timing signal Tn, Active High
Timing mode register TM = 7: 8-digit display
Blanking mode register BM = 5: φFIP/2 operation
Timing signal cut width 4/16
Clock frequency: 4.19 MHz

The following values can be read from the conditions above.

T_{nw} = 244 μS
T_f = 183 μS
Blanking frequency = 61 μS
T_{CYC} = 1952 μS
Scanning frequency = 512 Hz
Duty = 1:10.67

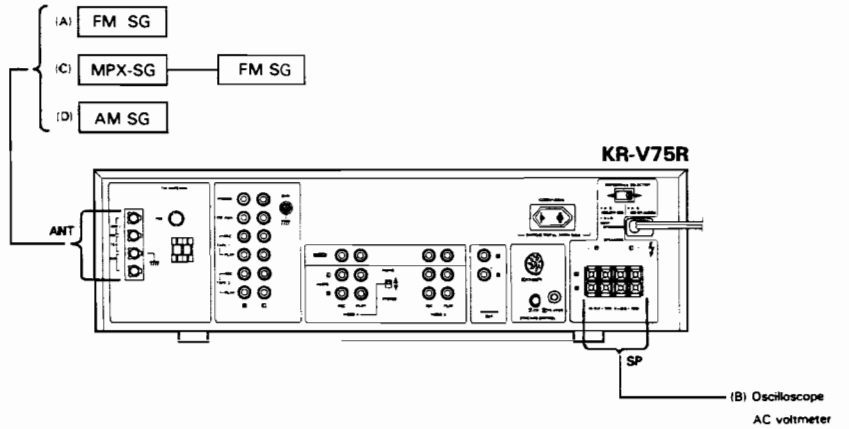
Although display tubes are normally driven directly, direct drive of 1G, 2G, 6G, 7G and 8G from the display terminal is not possible because the current is insufficient due to the wide surface of the grids. A driver buffer is added for them.

ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION	Unless otherwise specified, the individual switches should be set as following: SELECTOR: FM MODE: AUTO						
1	BAND EDGE (1)	–	Connect a DC voltmeter between TP5 and TP9.	87.5MHz	(X86-101) L8	2.5V	(a)
2	BAND EDGE (2)	–	Connect a DC voltmeter between TP5 and TP9.	108MHz	(X86-101) TC1	8.0V	(a)
	Repeat alignments 1 and 2 several times.						
3	RF ALIGNMENT	(A) 98.0MHz 1kHz,±75kHz dev	(B)	MODE: MONO 98.0MHz	(X86-101) L2,4 (L5)	Maximum amplitude and symmetry of the oscilloscope display.	
4	DISCRIMINATOR (1)	(A) 98.0MHz 1kHz,±75kHz dev 60dB(ANT input)	Connect a DC voltmeter between TP11 and TP12.	MODE: MONO 98.0MHz	(X14-17S) T1	0V	(b)
5	DISCRIMINATOR (2)	(A) 98.0MHz 1kHz,±75kHz dev 60dB (ANT input)	(B)	MODE:MONO 98.0MHz	(X14-17S) T2	Minimum distortion.	
6	VCO	(A) 98.0MHz 0 dev 60dB(ANT input)	Connect a 330kΩ resistor to TP13.Connect a frequency counter to the resistor via an AC voltmeter.	98.0MHz	(X14-17S) VR2	76.00kHz	(c)
7	DISTORTION (STEREO)	(C) 98.0MHz 1kHz,±68.25kHz dev Selector:L or R Pilot ±6.75kHz dev 60dB(ANT input)	(B)	98.0MHz	(X86-101) L7	Minimum distortion.	
8	SEPARATION (E type)	(C) 98.0MHz 1kHz,±40kHz dev Selector:L or R Pilot:6kHz de 60dB (ANT input)	(B)	98.0MHz	(X14-17S) VR3	Minimum crosstalk.	
AM SECTION	Keep the AM loop antenna installed. SELECTOR: AM						
(1)	BAND EDGE (1)	–	Connect a DC voltmeter between TP8 and TP9.	530kHz (531kHz)	(X14-17S) L4	1.5V	(a)
(2)	BAND EDGE (2)	–	Connect a DC voltmeter between TP5 and TP9.	1610kHz (1602kHz)	(X14-17S) TC2	8.0V	(a)
	Repeat alignments (1) and (2) several times.						
(3)	RF ALIGNMENT (1)	(D) 600kHz 400Hz,30% mod	(B)	600kHz	(X14-17S) L5	Maximum amplitude and symmetry of the oscilloscope display.	
(4)	RF ALIGNMENT (2)	(D) 1400kHz 400Hz,30% mod	(B)	1400kHz	(X14-17S) TC1	Maximum amplitude and symmetry of the oscilloscope display.	
	Repeat alignments (3) and (4) several times.						
AUDIO SECTION							
①	IDLE CURRENT	–	Connect a DC voltmeter across CP1 (CP2).	VOLUME:-∞	(X07-230) VR1 (L) VR2 (R)	15mV	(e)

ADJUSTMENT/REGLAGES/ABGLEICH

TEST INSTRUMENT	APPAREILLAGE	PRÜFINSTRUMENTE	
Oscilloscope	Oscilloscope	Oszilloskop	SCOPE
AM signal generator	Générateur MA	MW-Signalgenerator	AM-SG
FM signal generator	Générateur MF	UKW-Signalgenerator	FM-SG
SDK signal generator	Générateur SDK	SDK-Signalgenerator	SDK-SG
Audio generator	Générateur audio fréquences	NF-Signalgenerator	AG
AC voltmeter	Voltmètre CA	Wechselspannungsmesser	
FM multiplex generator	Générateur multiplex stéréo	UKW-Multiplexgenerator	FM-MPX
Frequency counter	Fréquencemètre	Frequenzzähler	
DC voltmeter	Voltmètre CC	Gleichspannungsmesser	
Distortion meter	Distorsiomètre	Klirrfaktomesser	
Dummy antenna	Antenne fictive	Antennennachbildung	



REGLAGES

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DU TUNER	POINT DE L'ALIGNEMENT	ALIGNER POUR	FIG.
SECTION MF		Sauf en cas d'indications spéciales, régler chaque commutateur comme suit: SELECTEOR: FM MODE: AUTO					
1	BORD DE BANDE (1)	–	Connecter un voltmètre CC entre les TP8 et TP9.	87,5MHz	(X86-101) L8	2,5V	(a)
2	BORD DE BANDE (2)	–	Connecter un voltmètre CC entre les TP8 et TP9.	108MHz	(X86-101) TC1	8,0V	(a)
Répéter les points 1 et 2 plusieurs fois.							
3	ALIGNEMENT MF	(A) 98,0MHz 1kHz, ±75kHz dév	(B)	MODE: MONO 98,0MHz	(X86-101) L2,4 (L5)	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
4	DISCRIMINATEUR (1)	(A) 98,0MHz 1kHz, ±75kHz dév 60dB(Entrée ANT)	Connecter un voltmètre CC entre les TP11 et TP12.	MODE: MONO 98,0MHz	(X14-178) T1	0 V	(b)
5	DISCRIMINATEUR (2)	(A) 98,0MHz 1kHz, ±75kHz dév 60dB(Entrée ANT)	(B)	MODE: MONO 98,0MHz	(X14-178) T2	Distorsion minimale.	
6	VCO	(A) 98,0MHz 0 dév 60dB(Entrée ANT)	Connecter une résistance de 330kΩ à TP13. Racorder un compteur de fréquence à une résistance par l'intermédiaire d'un voltmètre CA.	98,0MHz	(X14-178) VR2	76,00kHz	(c)
7	DISTORSION (STEREO)	(C) 98,0MHz 1kHz, ±68,25kHz dév Selection: G ou D Signal pilote: ±6,75kHz dév 60dB(Entrée ANT)	(B)	98,0MHz	(X86-101) L7	Distorsion minimale.	
8	SEPARATION (E type)	(C) 98,0MHz 1kHz, ±40kHz dév Selection: G ou D Signal pilote: ±6kHz dév 60dB(Entrée ANT)	(B)	98,0MHz	(X14-178) VR3	Diaphone minimale.	
SECTION MA		Laisser l'antenne boucle MA installée. SELECTEOR: AM					
(1)	BORD DE BANDE	–	Connecter un voltmètre CC entre les TP72 et TP73.	530kHz (531kHz)	(X14-178) L4	1,5V	(a)
(2)	BORD DE BANDE	–	Connecter un voltmètre CC entre les TP72 et TP73.	1610kHz (1602kHz)	(X14-178) TC2	8,0V	(a)
Répéter les points (1) et (2) plusieurs fois.							
(3)	ALIGNEMENT MF (1)	(D) 600kHz 400Hz, 30% mod	(B)	600kHz	(X14-178) L5	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
(4)	ALIGNEMENT MF (2)	(D) 1400kHz 400Hz, 30% mod	(B)	1400kHz	(X14-178) TC1	Amplitude et symétrie maximale de l'affichage de l'oscilloscope.	
Répéter les points (3) et (4) plusieurs fois.							
SECTION AUDIO							
①	REGLAGE DU COURANT DE POLARISATION	–	Connecter un voltmètre CC sur CP1 (CP2).	VOLUME: -∞	(XO7-230) VR1 (G) VR2 (D)	18mV	(e)

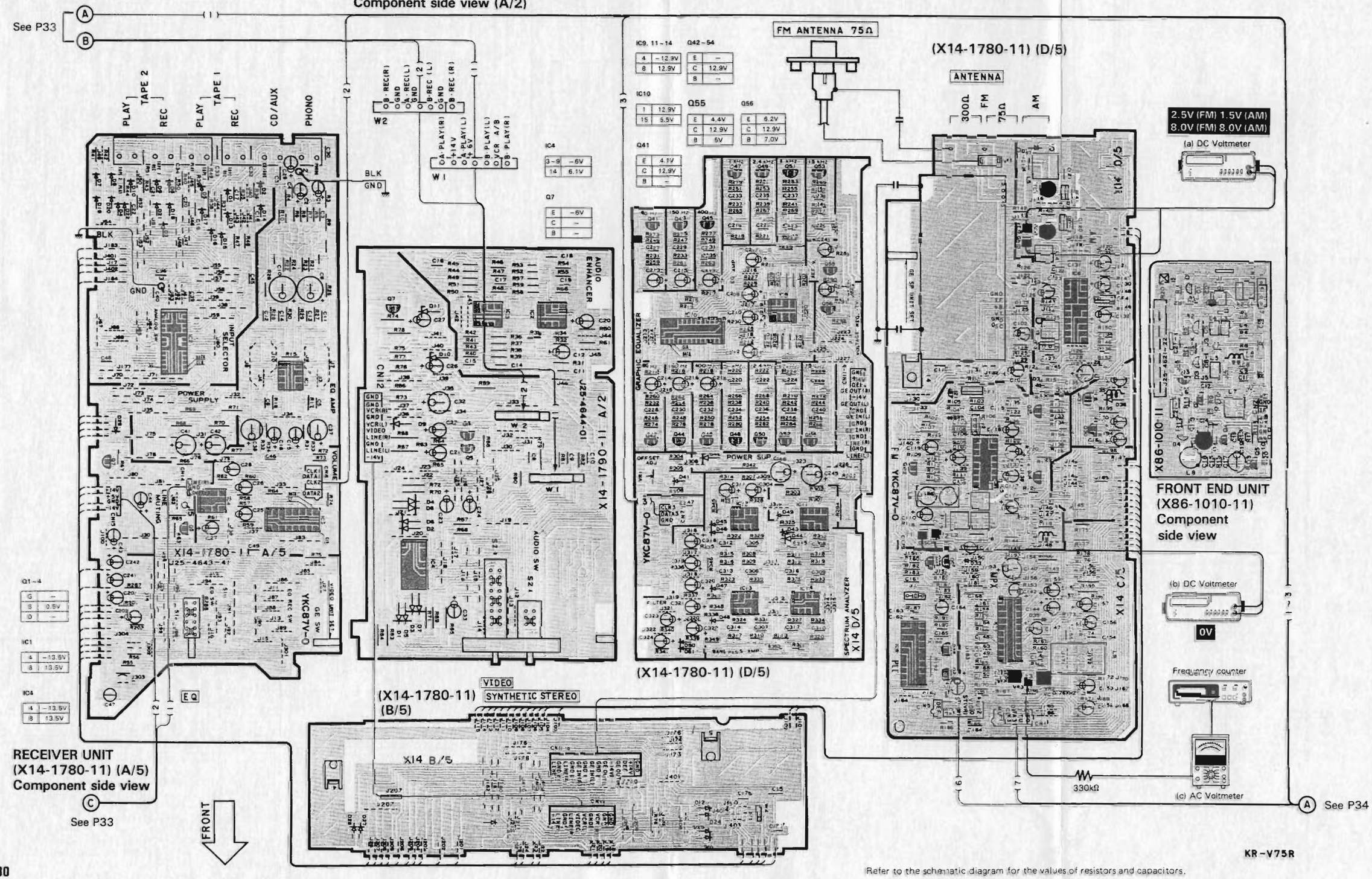
ABGLEICH

NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	TUNER-EINSTELLUNG	ABGLEICH-PUNKTE	ABGLEICHEN FÜR	ABB.
UKW-EMPFANGSABTEILUNG		Außer wenn anders angegeben, die verschiedenen Schalter wie folgt einstellen: SELECTOR: FM MODE: AUTO					
1	BANDKANTE (1)	–	Einen Gleichspannungsmesser zwischen TP8 und TP9 anschließen.	87,5MHz	(X86-101) L8	2,5V	(a)
2	BANDKANTE (2)	–	Einen Gleichspannungsmesser zwischen TP8 und TP9 anschließen.	108MHz	(X86-101) TC1	8,0V	(a)
Abstimmungen 1 und 2 mehrere Male wiederholen.							
3	EMPFANGS-BEREICH-ABSTIMMUNGEN	(A) 98,0MHz 1kHz, ±75kHz Hub	(B)	MODE: MONO 98,0MHz	(X86-101) L2,4 (L5)	Maximal Amplitude und Symetrie des Oszilloskopbildes.	
4	DISKRIMINATOR (1)	(A) 98,0MHz 1kHz, ±75kHz Hub 60dB(ANT-Eingang)	Einen Gleichspannungsmesser zwischen TP11 und TP12 anschließen.	MODE: MONO 98,0MHz	(X14-178) T1	0 V	(b)
5	DISCRIMINATOR (2)	(A) 98,0MHz 1kHz, ±75kHz Hub 60dB(ANT-Eingang)	(B)	MODE: MONO 98,0MHz	(X14-178) T2	Minimaler Klirrfaktor.	
6	SPANNUNGS-GEREGELTER OSZILLATOR	(A) 98,0MHz 0 Hub 60dB(ANT-Eingang)	Einen 330kΩ Widerstanden zu TP13 anschließen. Einen Frequenzzahler uber einen Wechselspannungsmesser an den Widerstand anschließen.	98,0MHz	(X14-178) VR2	76,00kHz	(c)
7	KLIRRFAKTOR (STEREO)	(C) 98,0MHz 1kHz, ±68,25kHz Hub Wahler: L oder R Pilotten: ±6,75kHz Hub 60dB(ANT-Eingang)	(B)	98,0MHz	(X86-101) L7	Minimaler Klirrfaktor.	
8	STEREO KANAL TRENNUNG (E type)	(C) 98,0MHz 1kHz, ±40kHz Hub Wahler: L oder R Pilotten: ±6kHz Hub 60dB(ANT-Eingang)	(B)	98,0MHz	(X14-178) VR3	Minimales Übersprechen.	
MW-EMPFANGSABTEILUNG		Die MW-Rahmenantenne angebracht lassen. SELECTOR: AM					
(1)	BANDKANTE (1)	–	Einen Gleichspannungsmesser zwischen TP8 und TP9 anschließen.	530kHz (531kHz)	(X14-178) L4	1,5V	(a)
(2)	BANDKANTE (2)	–	Einen Gleichspannungsmesser zwischen TP72 und TP73 anschließen.	1610kHz (1602kHz)	(X14-178) TC2	8,0V	(a)
Abstimmungen (1) und (2) mehrere Male wiederholen.							
(3)	HF-ABGLEICH (1)	(D) 600kHz 400Hz, 30% mod	(B)	600kHz	(X14-178) L5	Maximal Amplitude und Symetrie des Oszilloskopbildes.	
(4)	HF-ABGLEICH (2)	(D) 1400kHz 400Hz, 30% mod	(B)	1400kHz	(X14-178) TC1	Maximal Amplitude und Symetrie des Oszilloskopbildes.	
Abstimmungen (3) und (4) mehrere Male wiederholen.							
AUDIO-EMPFANGSABTEILUNG							
①	LEERLAUFSTROM	–	Einen Gleichspannungsmesser uber CP1(CP2) anschließen.	VOLUME: -∞	(XO7-230) VR1 (L) VR2 (R)	18mV	(e)

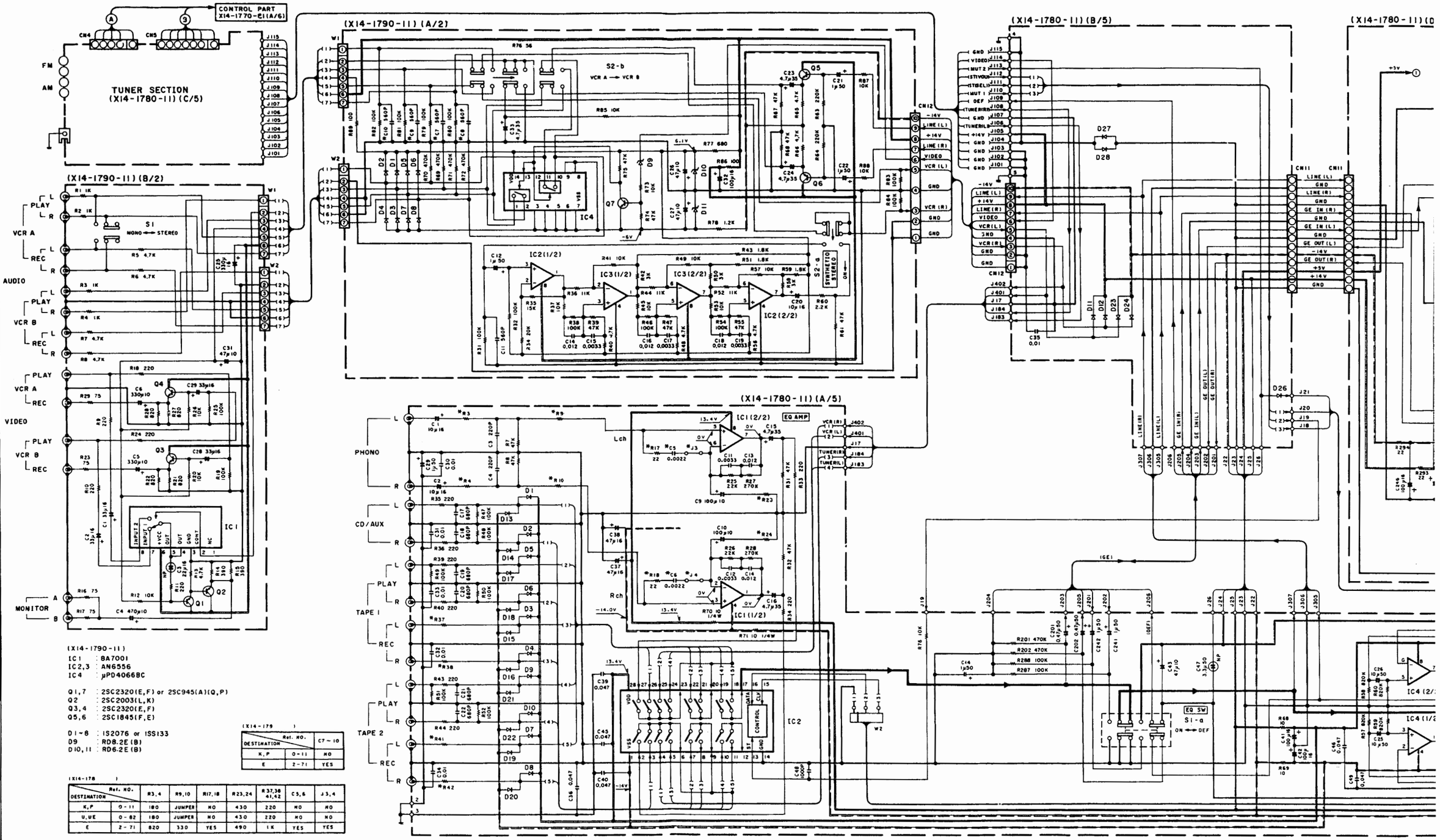
KR-V75R

PC BOARD

VIDEO CONTROL UNIT (X14-1790-11)
Component side view (A/2)



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



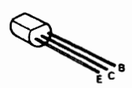
(X14-179)

DESTINATION \ Ref. NO.	C7~10
K,P	NO
E	YES

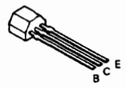
(X14-178)

DESTINATION \ Ref. NO.	R3,4	R9,10	R17,18	R23,24	R37,38 41,42	C5,6	J3,4
K,P	0~11	180	JUMPER	NO	430	220	NO	NO
U,UE	0~82	180	JUMPER	NO	430	220	NO	NO
E	2~71	820	330	YES	490	1K	YES	YES

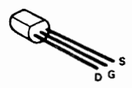
2SA733 (A)
2SC1845
2SC2003
2SC945 (A)
2SC2320



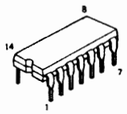
2SA933S
2SC1740S



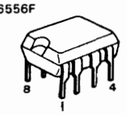
2SK163



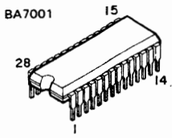
μPD4066BC



AN6556
AN6556F

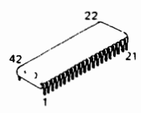


BA7001

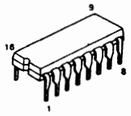


TC9164N

LC7522



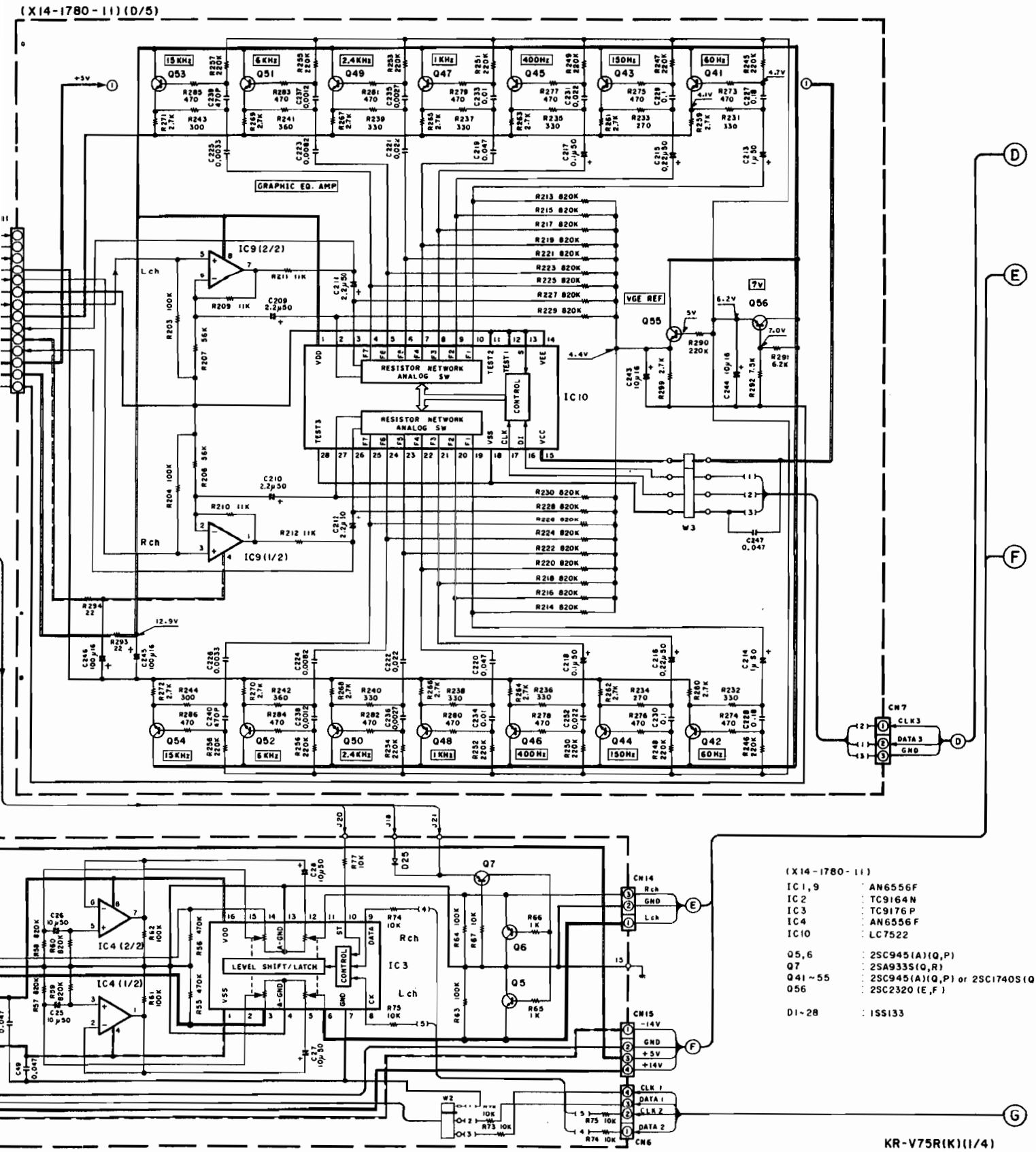
TC9176P



DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegeben
einem hochoh
Dabei schwank
schieden zwis
Geräten u.U. ge



(X14-1780-11)

IC1,9	: AN6556F
IC2	: TC9164N
IC3	: TC9176P
IC4	: AN6556F
IC10	: LC7522
Q5,6	: 2SC945(A)(Q,P)
Q7	: 2SA933S(Q,R)
Q41~55	: 2SC945(A)(Q,P) or 2SC1740S(Q,R)
Q56	: 2SC2320(E,F)
D1~28	: 1SS133

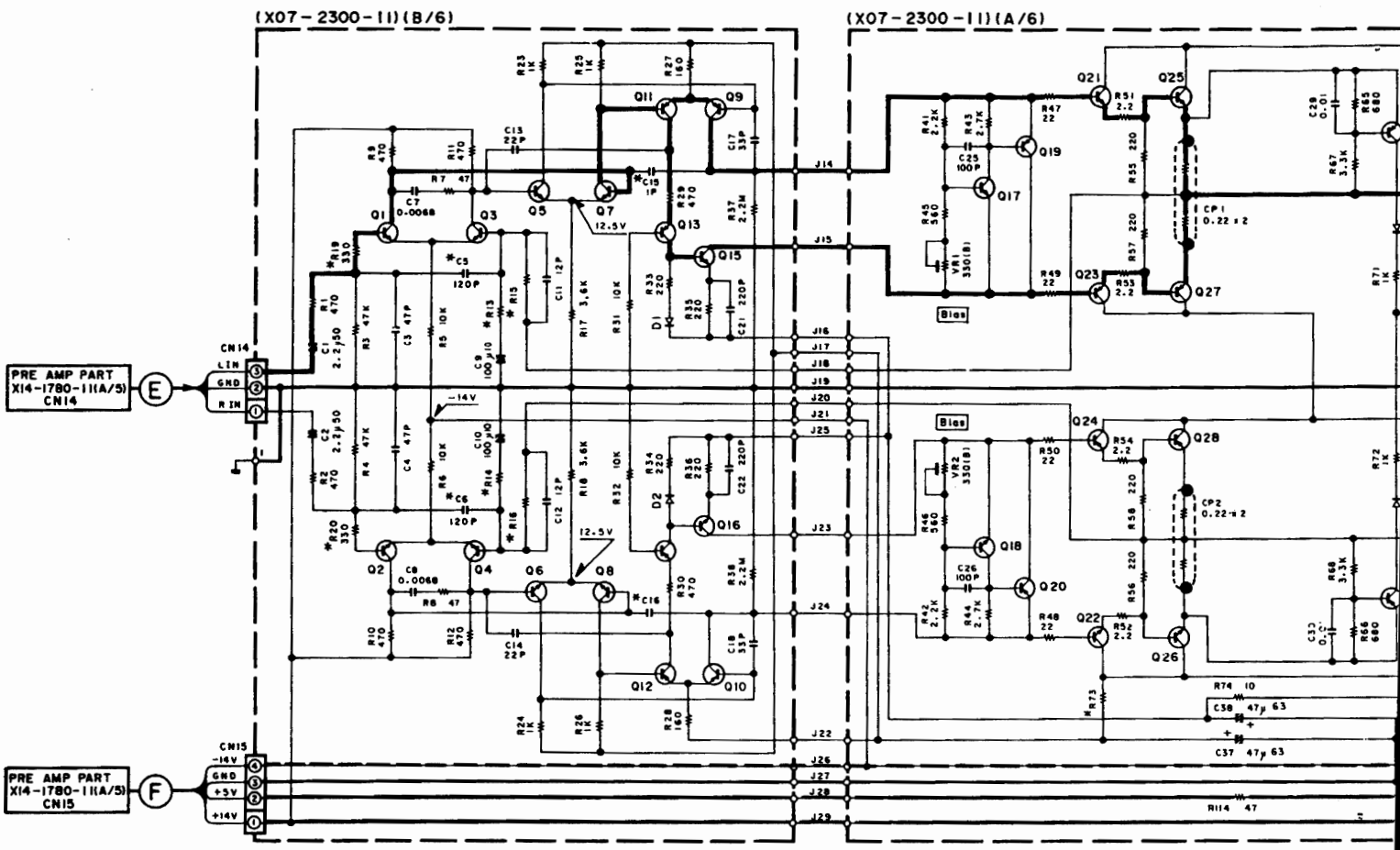
KR-V75R(K)(1/4)

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. 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.

KR-V75R

KENWOOD



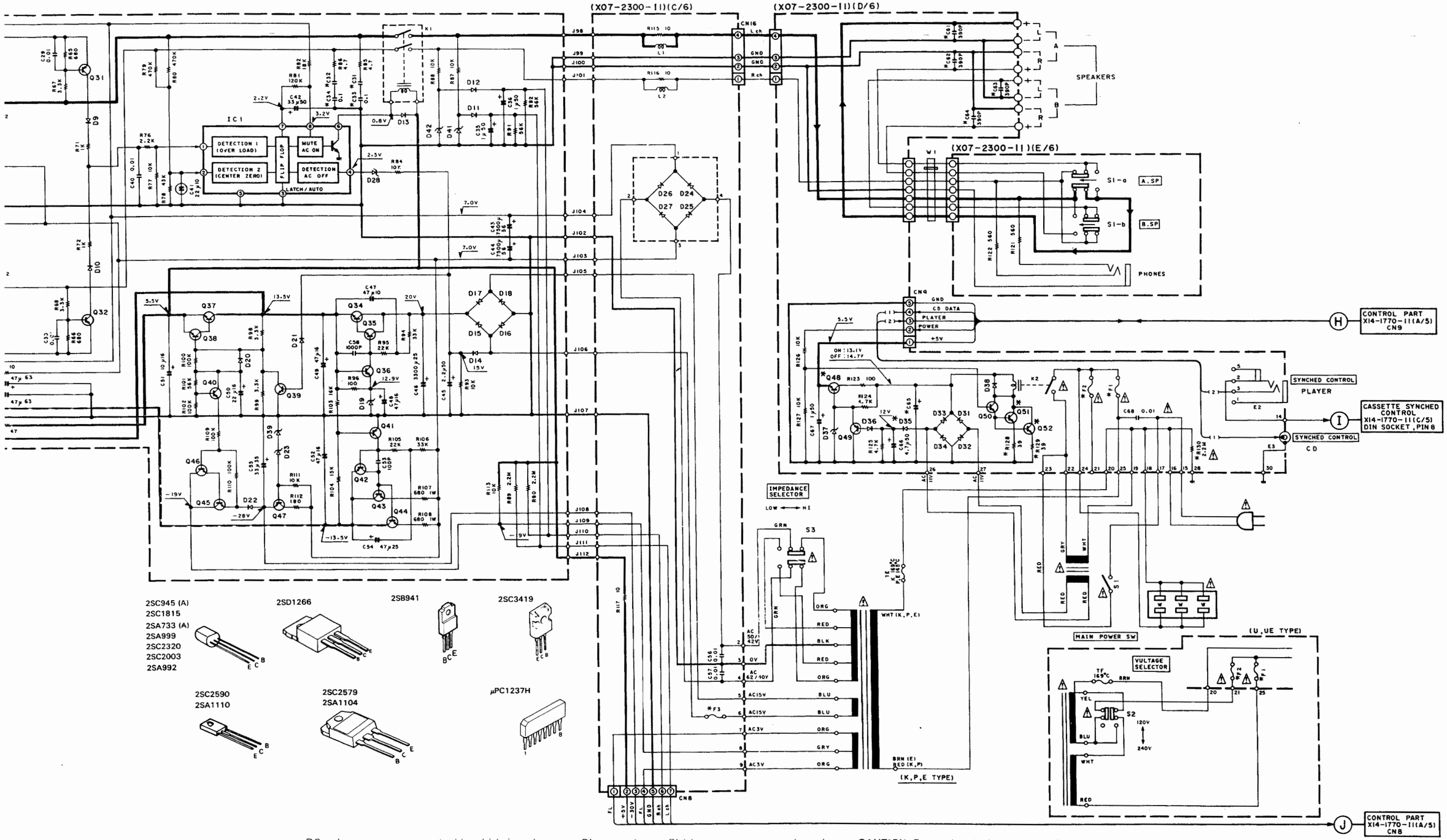
(X07-2300-11)

IC1	: μPC1237H
Q1~8	: 2SC945(A)(Q, P)
Q35, 36, 38, 46, 50	: 2SC945(A)(Q,P) or 2SC2320(E,F)
Q9~14, 31, 32	: 2SA992(F,E)
Q15, 16	: 2SC1845(F,E)
Q17, 18	: 2SC3419
Q19, 20, 39~42, 49	: 2SA733(A)(Q, P) or 2SA999(E,F)
Q21, 22	: 2SC2590(Q,R,S)
Q23, 24	: 2SA1110(Q,R,S)
Q25, 26	: 2SC2579*5(O,P)
Q27, 28	: 2SA1104*5(O, P)
Q34, 43, 44	: 2SD1266(Q, P)
Q37, 45	: 2SC2003(L,K)
Q47,	: 2SB941(R,Q)
Q48, 51	: *
Q52	: 2SD1266(Q,P)
Q50	: 2SC2320(E,F) or 2SC945(A)(Q,P)

D1, 2, 20, 21	: 1SS133
D9~12, 14, 35, 36	: 1SS178
D13, 15~18, 31~34, 38	: DSM1A1
D19	: RD13ES(B2)
D22	: RD8.2ES(B)
D23, 39	: RD15ES(B)
D24~27	: GP25DL
D28	: RD5.1ES(B)
D37	: RD6.2ES(B2)
D41, 42	: RD5.6ES(B2)

(X07-230)

DESTINATION \ Ref. No.		R13,14	R15,16	R19,20	R73	R128	R129	R130	C5,6	C15,16	C31,32	C33,34	C61~64	C65	Q48,51	Q52	F1	F2	F3	J44,54,89,93
K,P	0-11	330	5K	JUMPER	22	JUMPER	NO	YES	NO	1P	0.047	NO	NO	470p16	2SC2003(L,K)	NO	6A	NO	1.5A	YES
U,UE	0-82	330	5K	JUMPER	22	39	YES	NO	NO	1P	0.047	NO	NO	330p35	2SD1266(Q,P)	YES	3A	YES	1.5A	NO
E	2-71	300	47K	330	10	JUMPER	NO	NO	YES	6P	0.1	YES	YES	470p16	2SC2003(L,K)	NO	T3.15A	NO	T1.6A	NO



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Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig.

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KR-V75R (K)(2/4)

KR-V75R

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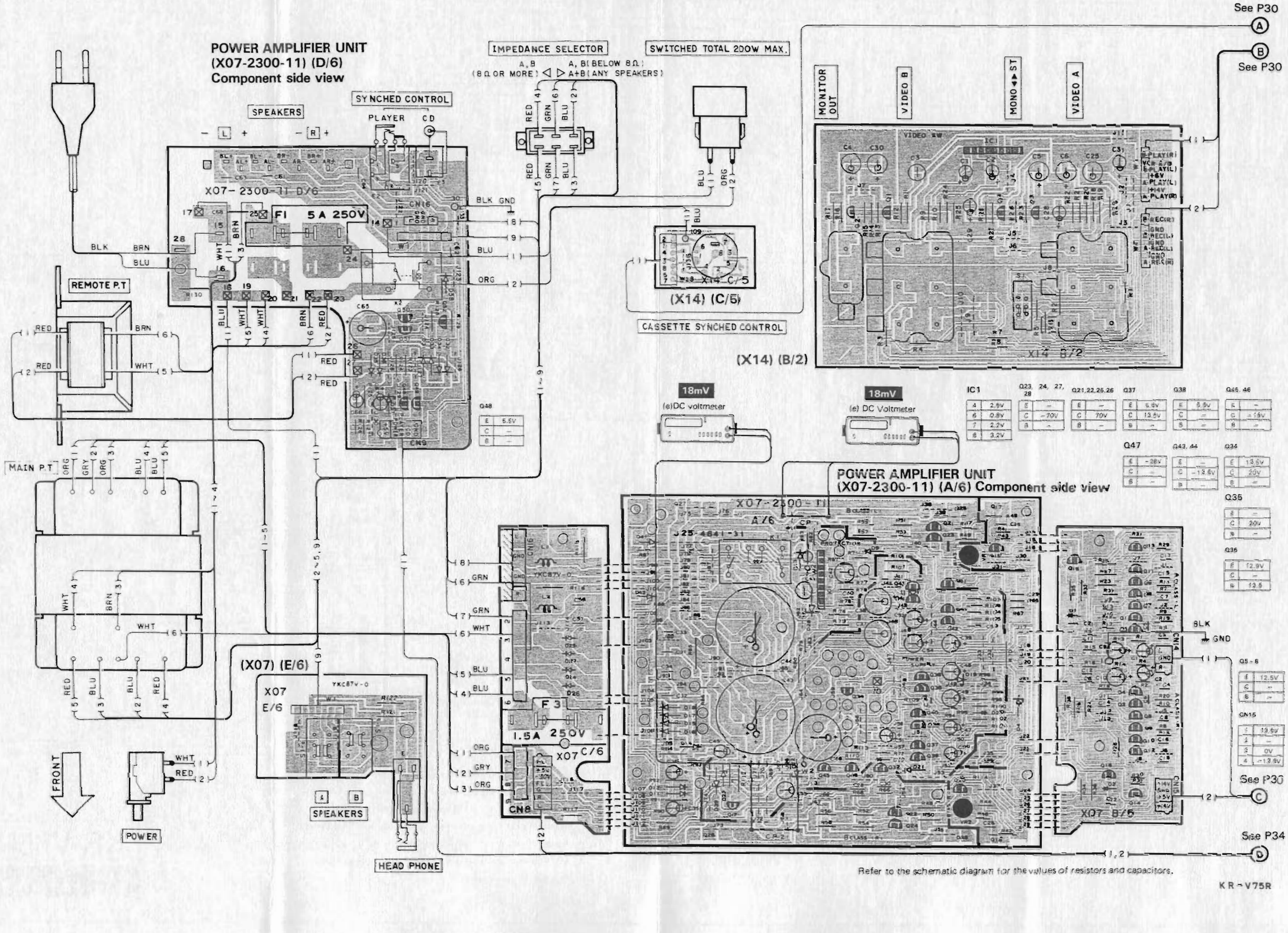
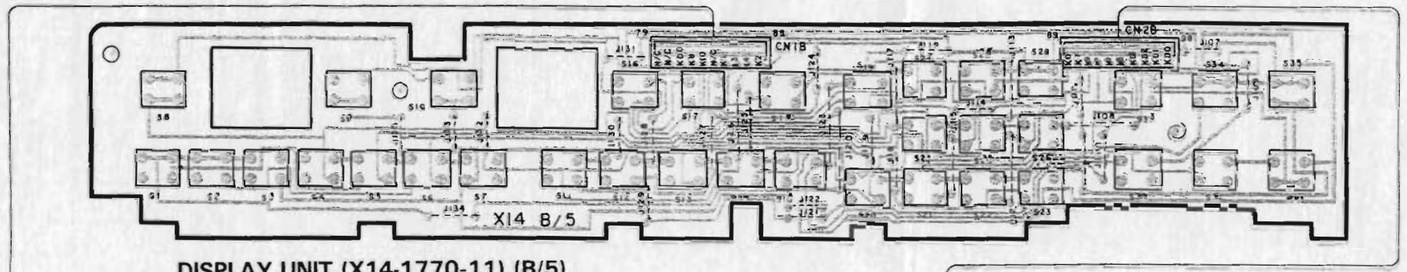


Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD

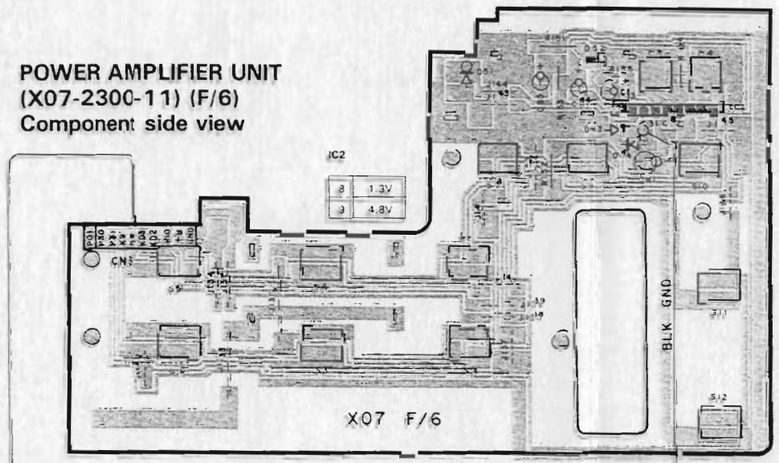
FRONT PANNEL



DISPLAY UNIT (X14-1770-11) (B/5)

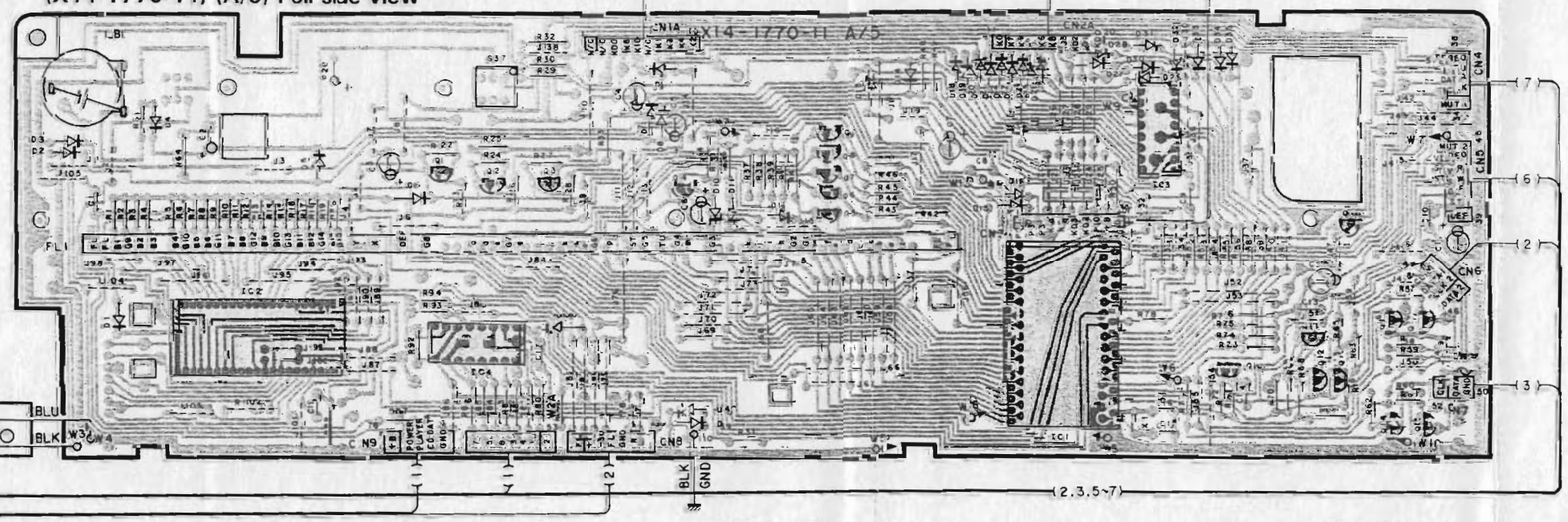
BOTTOM SIDE

POWER AMPLIFIER UNIT
(X07-2300-11) (F/6)
Component side view



IC1		IC2		CN8		Q5~9		Q4	
57	−28V	42	5V	55	−28V	E	—	E	−28V
58	−4.8V	CN9		54	5.5V	C	5V	C	—
64	5V	67	5.5			B	—	B	—

DISPLAY UNIT
(X14-1770-11) (A/5) Foil side view



See P30 (A)
See P33 (D)
X14 E/5
BLU
BLK

KR-V75R

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

TUNER PART
X14-1780-11(C/5)
CN4, CN5

GRAPHIC EQ. PART
X14-1780-11(D/5)
CN7

SYNCHED CONTROL
JACK/REMOTE
CONT POWER SUPPLY
X07-2300-11(D/6)
CN9

SYNCHED CONTROL
JACK(PLAYER)
X07-2300-11(D/6)
Terminal 14

X07-2300-11(C/6)
CN8

PRE AMP PART
X14-1780-11(A/5)
CN6

(X14-1770-11)(C/5)

(X14-1770-11)(A/5)

(X14-1770-11)(E/5)

(X14-1770-11)(D/5)

IC1

IC2

IC3

IC4 BCD to DECADE DECODER

2SA733 (A)
2SC1845
2SC945

2SA933S
2SC1740S

μPD4028BC

μPC1474HA

LC7565

MB84028BM

μPD7519G-172-36

DC voltages are as me
voltmeter. Values may
between individual instr

Les tensions c.c. doive
mètre à haute impédan
légèrement du fait d
appareils et aux instrum

Die angegebenen Gleic
einem hochohmigen
Dabei schwanken die M
schieden zwischen e
Geräten u.U. geringfügi

(X14-177)

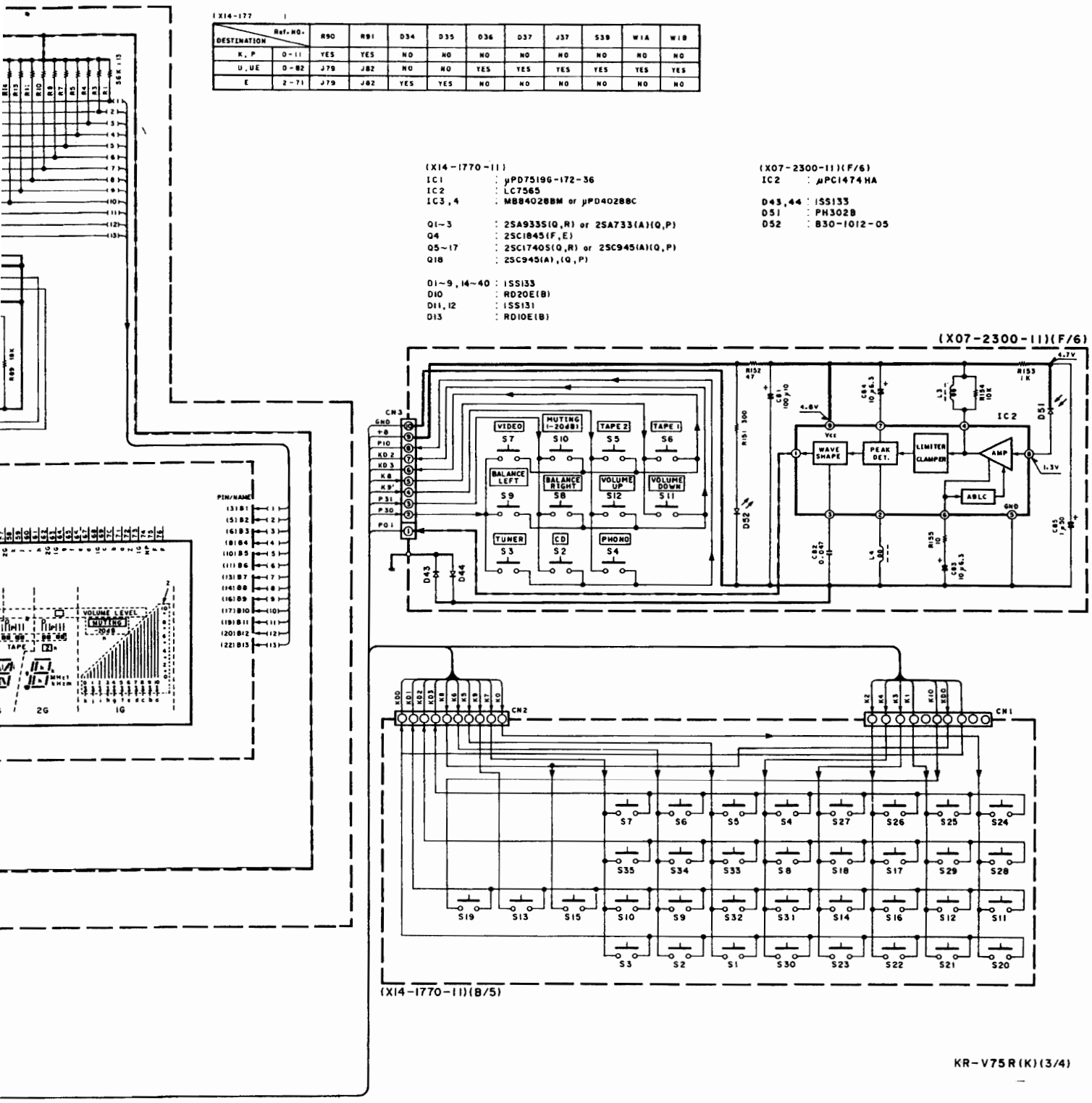
DESTINATION \ Ref. NO.		R90	R91	D34	D35	D36	D37	J37	S39	W1A	W1B
K, P	0-11	YES	YES	NO	NO	NO	NO	NO	NO	NO	NO
U, UE	0-82	J79	J82	NO	NO	YES	YES	YES	YES	YES	YES
E	2-71	J79	J82	YES	YES	NO	NO	NO	NO	NO	NO

(X14-1770-11)

IC1	: μPD75196-172-36
IC2	: LC7565
IC3,4	: MB84028BM or μPD4028BC
Q1~3	: 2SA933S(Q,R) or 2SA733(A)(Q,P)
Q4	: 2SC1845(F,E)
Q5~17	: 2SC1740S(Q,R) or 2SC945(A)(Q,P)
Q18	: 2SC945(A),(Q,P)
D1~9,14~40	: 1SS133
D10	: RD20E(B)
D11,12	: 1SS131
D13	: RD10E(B)

(X07-2300-11)(F/6)

IC2	: μPC1474HA
D43,44	: 1SS133
D51	: PH302B
D52	: 830-1012-05



DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

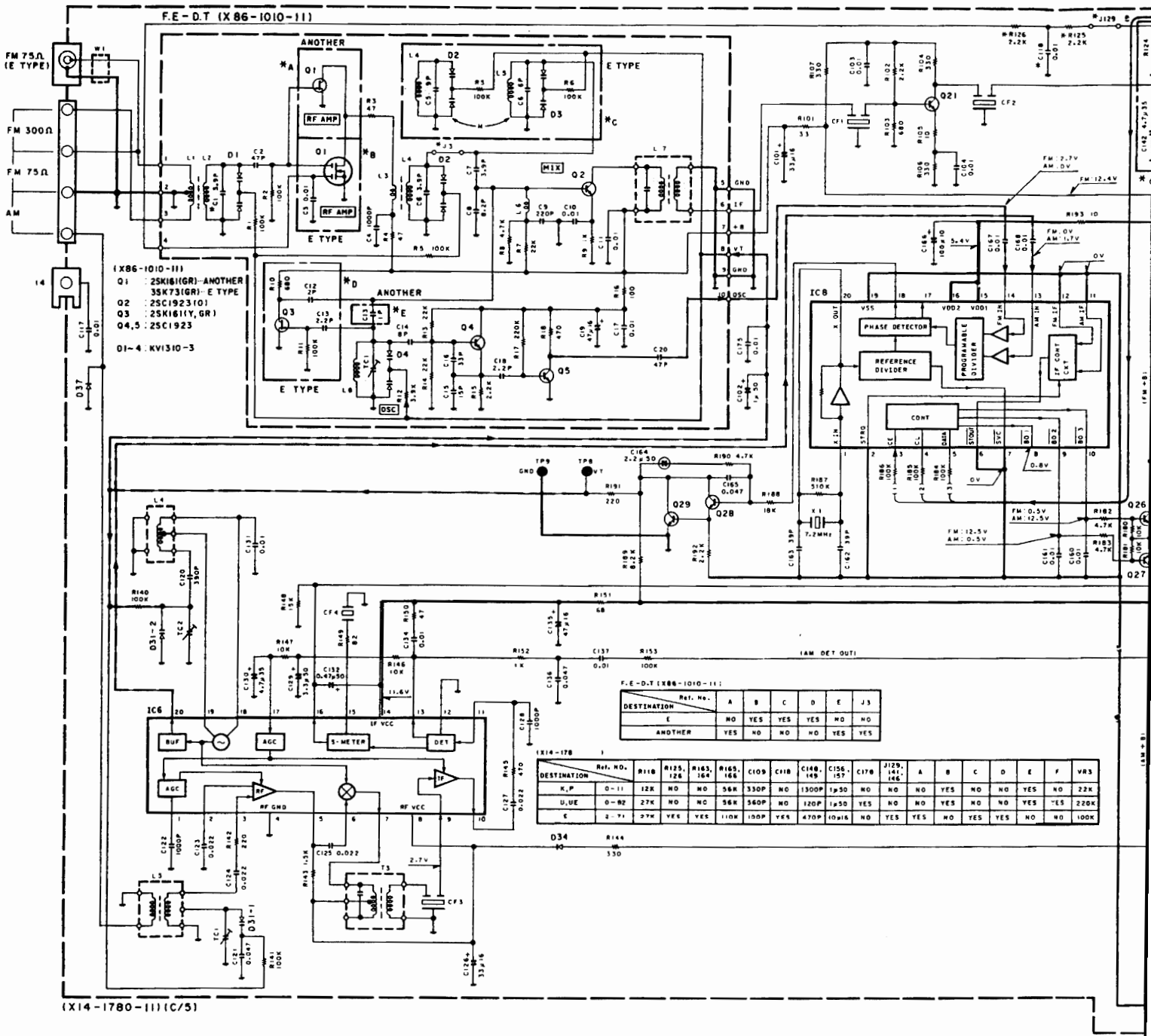
Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. 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.

KR-V75R

KENWOOD



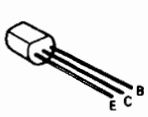
F.E-D.T (X86-1010-11):

DESTINATION \ Ref. No.	A	B	C	D	E	J3
E	NO	YES	YES	YES	NO	NO
ANOTHER	YES	NO	NO	NO	YES	YES

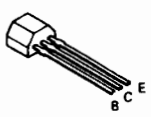
(X14-178)

DESTINATION \ Ref. NO.		R118	R125, 126	R163, 164	R165, 166	C109	C118	C148, 149	C156, 157	C178	J129, 141, 146	A	B	C	D	E	F	VR3
K,P	0~11	12K	NO	NO	56K	330P	NO	1300P	1μ50	NO	NO	NO	YES	NO	NO	YES	NO	22K
U,UE	0~82	27K	NO	NO	56K	560P	NO	1200P	1μ50	YES	NO	NO	YES	NO	NO	YES	YES	220K
E	2~71	27K	YES	YES	110K	100P	YES	470P	10μ16	NO	YES	YES	NO	YES	YES	NO	NO	100K

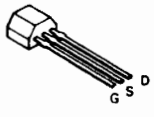
2SC1815
2SC1923
2SC2003
2SC945 (A)
2SA733 (A)



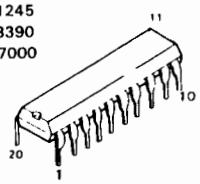
2SC1740S
2SA98S



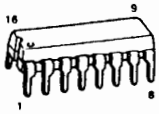
2SK161



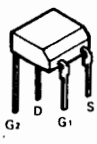
LA1245
LA3390
LM7000



LA1232



3SK73



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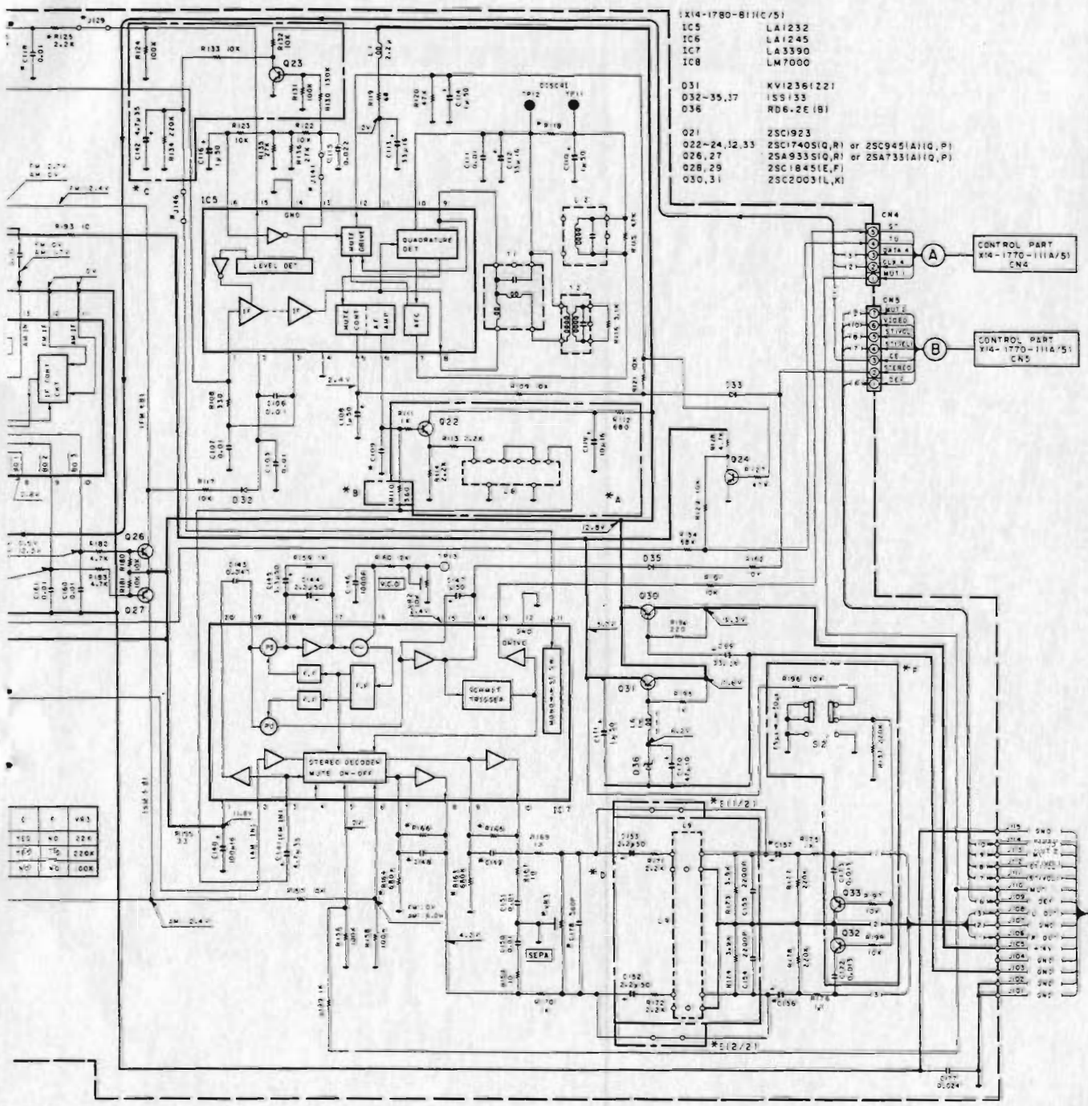
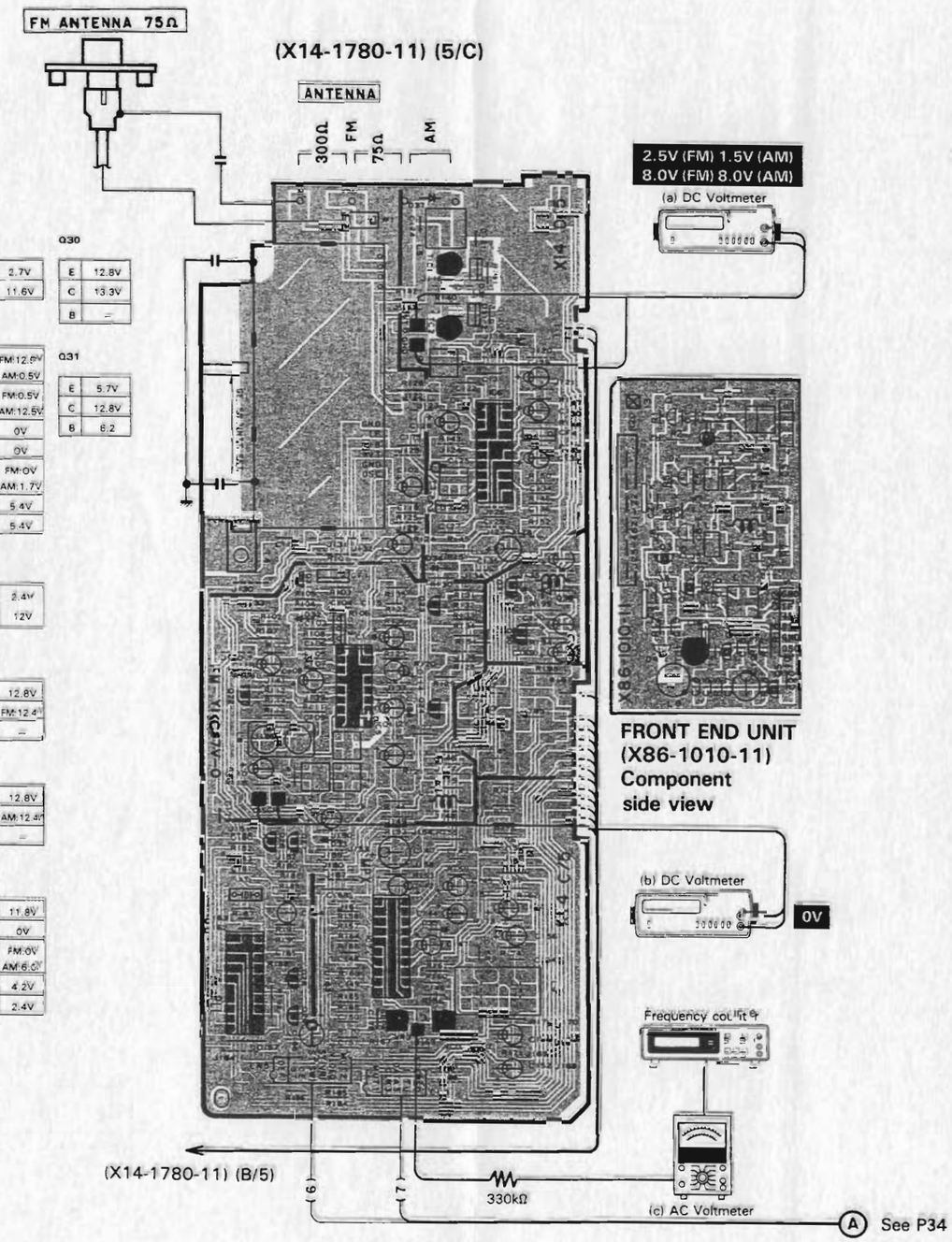
Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspa
einem hochohmigen Spa
Dabei schwanken die Meßv
schieden zwischen einze
Geräten u.U. geringfügig

KR-V75R

PC BOARD





gebenen Gleichspannungswerte wurden mit ...chohmigen Spannungsmesser gemessen. ...wanken die Meßwerte aufgrund von Unter- ...zwischen einzelnen Instrumenten oder ...U. geringfügig.

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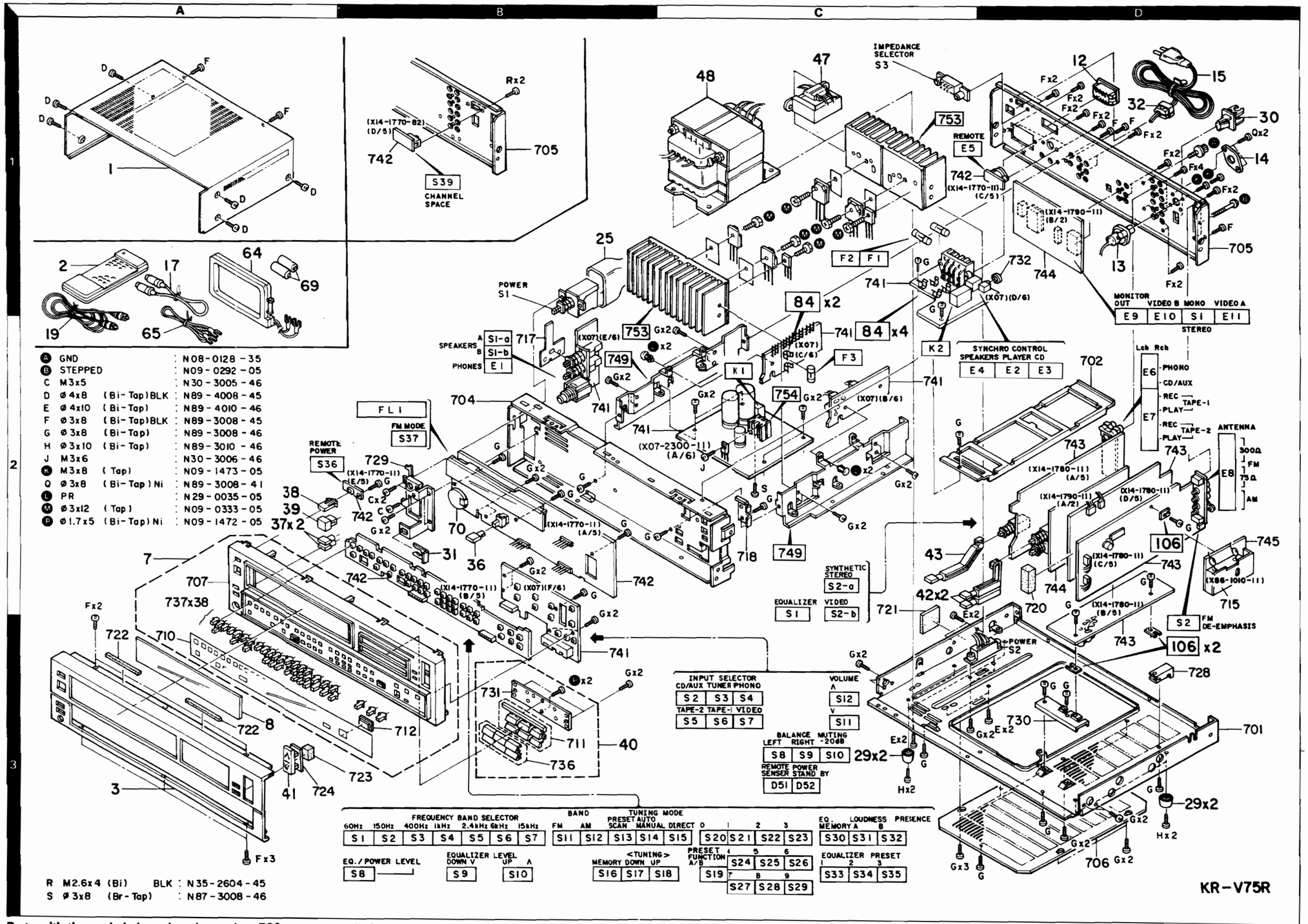
KR-V75R

KENWOOD

EXPLODED VIEW



A	GND		N08-0128-35
B	STEPPED		N09-0292-05
C	M3x5		N30-3005-46
D	Ø4x8	(Bi-Tap)BLK	N89-4008-45
E	Ø4x10	(Bi-Tap)	N89-4010-46
F	Ø3x8	(Bi-Tap)BLK	N89-3008-45
G	Ø3x8	(Bi-Tap)	N89-3008-46
H	Ø3x10	(Bi-Tap)	N89-3010-46
J	M3x6		N30-3006-46
K	M3x8	(Tap)	N09-1473-05
Q	Ø3x8	(Bi-Tap)Ni	N89-3008-41
L	PR		N29-0035-05
M	Ø3x12	(Tap)	N09-0333-05
P	Ø1.7x5	(Bi-Tap)Ni	N09-1472-05
R	M2.6x4	(Bi) BLK	N35-2604-45
S	Ø3x8	(Br-Tap)	N87-3008-46

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

PARTS LIST

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Teile ohne Parts No. werden nicht geliefert.

	Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名/規格	Destination 仕向	Remarks 備考
				KR-V75R			
	1	1A	*	A01-1493-02	METALLIC CABINET		
	2	1A	*	A70-0145-05	REMOTE CONTROLLER ASSY		
	3	3A	*	A20-4911-02	PANEL		
	7	2A	*	B01-0332-01	PANEL ESCUTCHEON ASSY		
	8	3A	*	B10-0842-03	FRONT GLASS (DISPLAY)		
	-			B46-0092-03	WARRANTY CARD	K	
	-			B46-0094-03	WARRANTY CARD	UUE	
	-			B46-0095-03	WARRANTY CARD	UUE	
	-			B46-0121-03	WARRANTY CARD	P	
	-			B46-0122-13	WARRANTY CARD	E	
	-		*	B50-6474-00	INSTRUCTION MANUAL(ENGLISH)	K	
	-		*	B50-6475-00	INSTRUCTION MANUAL(ENG,FRE)	P	
	-		*	B50-6476-00	INSTRUCTION MANUAL(ENGLISH)	UUE	
	-		*	B50-6477-00	INSTRUCTION MANUAL(G,F,D)	E	
	-			B58-0223-04	CAUTION CARD (PRE-SET 120V)	U	
	-			B58-0269-04	CAUTION CARD	K	
	-			B58-0513-04	CAUTION CARD (PRESET220-240)	UE	
	-		*	B58-0803-03	CAUTION CARD	E	
	-			B59-0092-00	SERVICE DIRECTORY	UUE	
△	12	1D		E03-0055-05	AC OUTLET	E	
△	12	1D		E03-0075-05	AC OUTLET	UUE	
△	12	1D		E03-0086-05	AC OUTLET	KP	
	13	1D		E04-0006-05	RF COAXIAL CABLE RECEPTACLE	E	
	14	1D		E29-0130-04	LEAD PLATE	E	
△	15	1D		E30-0459-05	AC POWER CORD (CEE,2.5A)	E	
△	15	1D		E30-0812-05	AC POWER CORD (7A)	UUE	
△	15	1D		E30-0974-05	AC POWER CORD (UL,CSA)	KP	
	17	1A		E30-0950-05	CORD WITH DIN CONNECTOR(8P)		
	19	2A		E30-1360-05	AUDIO CORD (1P)		
	25	1B		F29-0067-05	INSULATING COVER	E	
	-		*	H01-7279-04	ITEM CARTON CASE		
	-		*	H10-3322-02	POLYSTYRENE FOAMED FIXTURE		
	-		*	H10-3323-02	POLYSTYRENE FOAMED FIXTURE		
	-			H25-0181-04	PROTECTION BAG (150X260X0.05)		
	-			H25-0224-04	PROTECTION BAG (800X400)		
	-			H25-0232-04	PROTECTION BAG (235X350)		
	29	3C,3D		J02-0126-05	FOOT		
	30	1D		J19-0626-12	ANTENNA HOLDER		
	31	2B		J21-3326-05	JACK MOUNTING HARDWARE		
△	32	1D		J42-0083-05	POWER CORD BUSHING		
	-			J61-0307-05	WIRE BAND		
	36	2B		K27-0965-04	KNOB (BUTTON) FM MODE		
	37	2A		K27-1304-04	KNOB (BUTTON) SPEAKERS		
	38	2A		K29-1498-04	KNOB (BUTTON) REMOTE POWER		
	39	2A		K29-2001-04	KNOB ASSY(BUTTON)MAIN POWER		
	40	3B		K29-2095-03	KNOB ASSY (SELECTOR)		
	41	3A		K29-2105-04	KNOB (BUTTON) MAIN VOLUME		
	42	2C		K29-2126-04	KNOB ASSY(BUTTON)SYNTHE,VIDEO		
	43	2C		K29-2130-04	KNOB ASSY(BUTTON)EQUALIZER		
△	47	1C		L01-6681-05	POWER TRANSFORMER(REMOTE)	KP	

E: Scandinavia & Europe H:Audio Club K: USA P: Canada W:Europe
T: England U: PX(Far East, Hawaii)
UE: AAFES(Europe) X: Australia M: Other Areas

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△	47	1C		L01-6682-05	POWER TRANSFORMER(REMOTE)	E	
△	47	1C		L01-7172-05	POWER TRANSFORMER(REMOTE)	UUE	
△	48	1C	*	L01-7231-05	POWER TRANSFORMER(MAIN)	K	
△	48	1C	*	L01-7232-05	POWER TRANSFORMER(MAIN)	E	
△	48	1C	*	L01-7235-05	POWER TRANSFORMER(MAIN)	UUE	
△	48	1C	*	L01-7237-05	POWER TRANSFORMER(MAIN)	P	
	A	1D		N08-0128-35	BINDING POST (GND)		
	B	1D		N09-0292-05	STEPPED SCREW (Ø3X19)		
	K	1D		N09-1473-05	TAPPING SCREW (M3X8)	E	
	P	3B		N09-1472-05	TAPTITE SCREW (Ø1.7X5)		
△	S1	1B		S40-1073-05	PUSH SWITCH (MAIN POWER)		
△	S2	3D		S31-2053-05	SLIDE SWITCH (POWER TYPE)	UUE	
	S3	1C		S31-2113-05	SLIDE SWITCH		
	64	1A		T90-0104-25	LOOP ANTENNA		
	65	2A		T90-0132-05	T TYPE ANTENNA		
	69	1A		W09-0022-05	BATTERY		
	70	2B	*	W09-0031-05	BATTERY (LITHUM3V,180MAH)		
				POWER AMPLIFIER UNIT (X07-2300-11)			
	D52	3C		B30-1012-05	LED(SLP-981C-5D)POWER STAND BY		
	C1 ,2			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
	C3 ,4			CC45FSL1H470J	CERAMIC 47PF J		
	C5 ,6			CC45FSL1H121J	CERAMIC 120PF J	E	
	C7 ,8			CF92FV1H682J	MF 6800PF J		
	C9 ,10			CE04KW1A101M	ELECTRO 100UF 10WV		
	C11 ,12			CC45FSL1H120J	CERAMIC 12PF J		
	C13 ,14			CC45FSL1H220J	CERAMIC 22PF J		
	C15 ,16			CC45FSL1H010C	CERAMIC 1.0PF C	KPUUE	
	C15 ,16			CC45FSL1H060D	CERAMIC 6.0PF D	E	
	C17 ,18			CC45FSL1H330J	CERAMIC 33PF J		
	C21 ,22			CC45FSL1H221J	CERAMIC 220PF J		
	C25 ,26			CC45FSL1H101J	CERAMIC 100PF J		
	C29 ,30			C91-0769-05	CERAMIC 0.01UF M		
	C31 -34			CF92FV1H104J	MF 0.10UF J	E	
	C31 ,32			CF92FV1H473J	MF 0.047UF J	KPUUE	
	C35 ,36			CE04KW1H010M	ELECTRO 1.0UF 50WV		
	C37 ,38		*	CE04KW1J470M	ELECTRO 47UF 63WV		
	C40			CK45FF1H103Z	CERAMIC 0.010UF Z		
	C41			C90-1333-05	NP-ELEC 10UF 25WV		
	C42			CE04KW1H330M	ELECTRO 33UF 50WV		
	C43 ,44			C90-0538-05	ELECTRO 7500UF 56WV		
	C45			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
	C46			CE04KW1E332M	ELECTRO 3300UF 25WV		
	C47			CE04KW1A470M	ELECTRO 47UF 10WV		
	C48 ,49			CE04KW1C470M	ELECTRO 47UF 16WV		
	C50			CE04KW1C220M	ELECTRO 22UF 16WV		
	C51			CE04KW1H100M	ELECTRO 10UF 50WV		
	C52			CE04KW1C470M	ELECTRO 47UF 16WV		
	C53			C91-0745-05	CERAMIC 100PF K		
	C54			CE04KW1E470M	ELECTRO 47UF 25WV		
	C55			CE04KW1V330M	ELECTRO 33UF 35WV		
	C56 ,57			CK45FF1H103Z	CERAMIC 0.010UF Z		
	C58			CK45B1H102K	CERAMIC 1000PF K		

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	C61 -64			CK45FB1H681K	CERAMIC 680PF K	E	
	C65			CE04KW1C471M	ELECTRO 470UF 16WV	KPE	
	C65			CE04KW1V331M	ELECTRO 330UF 35WV	UUE	
	C66			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
	C67			CE04KW1H010M	ELECTRO 1.0UF 50WV		
Δ	C68			C91-0023-05	CERAMIC 0.01UF AC250V	UUE	
Δ	C68			C91-0647-05	CERAMIC 0.01UF P	KPE	
	C81			CE04KW1A101M	ELECTRO 100UF 10WV		
	C82			CK45FF1H473Z	CERAMIC 0.047UF Z		
	C83 ,84			CE04JW0J100M	ELECTRO 10UF 6.3WV		
	C85			CE04JW1H010M	ELECTRO 1.0UF 50WV		
	E1	2B		E11-0127-05	PHONE JACK (3P)		
	E2	2D		E11-0152-05	MINIATURE PHONE JACK(3P)PLAYER		
	E3	2D		E13-0119-05	PHONO JACK (1P) CD		
	E4	2D		E20-0823-05	LOCK TERMINAL BOARD(8P) SPKR		
Δ	F1	1C		F05-3121-05	FUSE (SEMKO) (250V T3.15A)	E	
Δ	F1	1C		F05-6027-05	FUSE (UL) (250V 6A)	KP	
Δ	F1 ,2	1C		F05-3022-05	FUSE (250V 3A)	UUE	
Δ	F3	2C		F05-1521-05	FUSE (250V 1.5A)	UUE	
Δ	F3	2C		F05-1623-05	FUSE (SEMKO) (250V T1.6A)	E	
Δ	F3	2C		F06-1521-05	FUSE (UL) (250V 1.5A)	KP	
	B4	1C		J13-0041-05	FUSE CLIP	KPUUE	
	B4	2C		J13-0054-05	FUSE CLIP	E	
	L1 ,2			L39-0085-05	PHASE-COMPENSATION COIL		
	L3 ,4			L39-0123-05	PEAKING COIL		
	L	2B,2C		N29-0035-05	PUSH RIVET (3.5X5.5)		
	M	1C		N09-0333-05	TAPPING SCREW (/3X12)		
	CP1 ,2			R90-0187-05	MULTI-COMP 0.22X2 K 5W		
	R23 -26			RD14AB2E102J	FL-PROOF RD 1.0K J 1/4W		
	R27 ,28			RD14AB2E161J	FL-PROOF RD 160 J 1/4W		
	R33 -36			RD14AB2E221J	FL-PROOF RD 220 J 1/4W		
	R47 -50			RD14AB2E220J	FL-PROOF RD 22 J 1/4W		
	R51 -54			RD14AB2E2R2J	FL-PROOF RD 2.2 J 1/4W		
	R55 -58			RD14AB2E221J	FL-PROOF RD 220 J 1/4W		
	R73			RD14AB2E220J	FL-PROOF RD 22 J 1/4W	KPUUE	
	R73 ,74			RD14AB2E100J	FL-PROOF RD 10 J 1/4W	E	
	R74			RD14AB2E100J	FL-PROOF RD 10 J 1/4W	KPUUE	
	R85 ,86			RS14KB3D4R7J	FL-PROOF RS 4.7 J 2W		
	R107,108			RS14DB3A681J	FL-PROOF RS 680 J 1W		
	R112			RS14DB3A181J	FL-PROOF RS 180 J 1W		
	R114			RD14AB2E470J	FL-PROOF RD 47 J 1/4W		
	R115,116			RS14DB3A100J	FL-PROOF RS 10 J 1W		
	R117			RD14AB2E100J	FL-PROOF RD 10 J 1/4W		
	R121,122			RS14DB3A561J	FL-PROOF RS 560 J 1W		
	R123			RD14AB2E101J	FL-PROOF RD 100 J 1/4W		
	R128,129			RD14AB2E390J	FL-PROOF RD 39 J 1/4W	UUE	
	R130			R92-0173-05	RC 2.2M M 1/2W	KP	
	R152			RD14AB2E470J	FL-PROOF RD 47 J 1/4W		
	VR1 ,2		*	R12-0093-05	TRIMMING POT.(330) BIAS		
	K1	2C		S51-2045-05	MAGNETIC RELAY		
Δ	K2	2C		S51-1036-05	MAGNETIC RELAY		

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S1	2B		S42-2130-05	MULTIPLE PUSH SWITCH(SPEAKERS)		
S2 -12	3B		S40-1064-05	PUSH SWITCH(CD/AUX,TUNER,ETC.)		
D1 ,2			1SS133	DIODE		
D9 -12			1SS178	DIODE		
D13			DSM1A1	DIODE		
D14			1SS178	DIODE		
D15 -18			DSM1A1	DIODE		
D19			RD13ES(B2)	ZENER DIODE		
D20 ,21			1SS133	DIODE		
D22		*	RD8.2ES(B)	ZENER DIODE		
D23			RD15ES(B)	ZENER DIODE		
D24 -27			GP25DL	DIODE		
D28		*	RD5.1ES(B)	ZENER DIODE		
D31 -34			DSM1A1	DIODE		
D35 ,36			1SS178	DIODE		
D37			RD6.2ES(B2)	ZENER DIODE		
D38			DSM1A1	DIODE		
D39			RD15ES(B)	ZENER DIODE		
D41 ,42			RD5.6ES(B2)	ZENER DIODE		
D43 ,44			1SS133	DIODE		
D51			PH302B	PHOTO DIODE		
IC1			UPC1237H	IC(PROTECTION)		
IC2			UPC1474HA	IC(REMOTE CONTROLLER PREAMP)		
Q1 -8			2SC945(A)(Q,P)	TRANSISTOR		
Q9 -14			2SA992(F,E)	TRANSISTOR		
Q15 ,16			2SC1845(F,E)	TRANSISTOR		
Q17 ,18			2SC3419	TRANSISTOR		
Q19 ,20			2SA733(A)(Q,P)	TRANSISTOR		
Q19 ,20			2SA999(E,F)	TRANSISTOR		
Q21 ,22			2SC2590(Q,R,S)	TRANSISTOR		
Q23 ,24			2SA1110(Q,R,S)	TRANSISTOR		
Q25 ,26			2SC2579*5(Q,P)	TRANSISTOR		
Q27 ,28			2SA1104*5(Q,P)	TRANSISTOR		
Q31 ,32			2SA992(F,E)	TRANSISTOR		
Q34			2SD1266(Q,P)	TRANSISTOR		
Q35 ,36			2SC2320(E,F)	TRANSISTOR		
Q35 ,36			2SC945(A)(Q,P)	TRANSISTOR		
Q37			2SC2003(L,K)	TRANSISTOR		
Q38			2SC2320(E,F)	TRANSISTOR		
Q38			2SC945(A)(Q,P)	TRANSISTOR		
Q39 -42			2SA733(A)(Q,P)	TRANSISTOR		
Q39 -42			2SA999(E,F)	TRANSISTOR		
Q43 ,44			2SD1266(Q,P)	TRANSISTOR		
Q45			2SC2003(L,K)	TRANSISTOR		
Q46			2SC2320(E,F)	TRANSISTOR		
Q46			2SC945(A)(Q,P)	TRANSISTOR		
Q47		*	2SB941(R,Q)	TRANSISTOR		
Q48			2SC2003(L,K)	TRANSISTOR	KPE	
Q48			2SD1266(Q,P)	TRANSISTOR	UUE	
Q49			2SA733(A)(Q,P)	TRANSISTOR		
Q49			2SA999(E,F)	TRANSISTOR		
Q50			2SC2320(E,F)	TRANSISTOR		
Q50			2SC945(A)(Q,P)	TRANSISTOR		
Q51			2SC2003(L,K)	TRANSISTOR	KPE	

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Q51 ,52			2SD1266(Q,P)	TRANSISTOR	UUE	
DISPLAY UNIT (X14-1770-11)						
C1			CK45FF1H223Z	CERAMIC 0.022UF Z		
C2		*	CE04DW0J471M	ELECTRO 470UF 6.3WV		
C3			CE04W1A470M	ELECTRO 47UF 10WV		
C4			CE04W1V4R7M	ELECTRO 4.7UF 35WV		
C5			CE04W1H010M	ELECTRO 1.0UF 50WV		
C6			CE04W1H100M	ELECTRO 10UF 50WV		
C7			CE04W1A330M	ELECTRO 33UF 10WV		
C8 ,9			CK45FF1H223Z	CERAMIC 0.022UF Z		
C10			CK45FF1H103Z	CERAMIC 0.010UF Z		
C11 ,12			CE04FW1V4R7M	ELECTRO 4.7UF 35WV		
C13 ,14			CF92FV1H104J	MF 0.10UF J		
C15 ,16			CC45FSL1H330J	CERAMIC 33PF J		
C17			CK45FF1H223Z	CERAMIC 0.022UF Z		
C19			CK45FB1H152K	CERAMIC 1500PF K		
E5	1C		E06-0805-15	CYLINDRICAL RECEPTACLE (DIN)		
X1		*	L78-0207-05	RESONATOR (4.194MHZ)		
S1 -36	3B,3C		S40-1064-05	PUSH SWITCH		
S37	2B	*	S40-2343-05	PUSH SWITCH (FM MODE)		
S39	1B		S31-2072-05	SLIDE SWITCH (CHANNEL SPACE)	UUE	
D1 -9			1SS133	DIODE		
D10		*	RD20E(B)	ZENER DIODE		
D11 ,12			1SS131	DIODE		
D13			RD10E(B)	ZENER DIODE		
D14 -33			1SS133	DIODE	KPUUE	
D14 -35			1SS133	DIODE	E	
D36 -40			1SS133	DIODE	UUE	
D38 -40			1SS133	DIODE	KPE	
FL1	2B	*	FIP18AMW24	FLUORESCENT INDICATOR TUBE		
IC1		*	UPD7519G-172-36	IC(MICROPROCESSOR)		
IC2		*	LC7565	IC(GRAPHIC EQ FL DISPLAY DR)		
IC3 ,4			MB84028BM	IC(BCD-TO-DECIMAL DECODER)		
IC3 ,4			UPD4028BC	IC(BCD-TO-DECIMAL DECODER)		
Q1 -3			2SA733(A)(Q,P)	TRANSISTOR		
Q1 -3			2SA933S(Q,R)	TRANSISTOR		
Q4			2SC1845(F,E)	TRANSISTOR		
Q5 -17			2SC1740S(Q,R)	TRANSISTOR		
Q5 -17			2SC945(A)(Q,P)	TRANSISTOR		
Q18			2SC945(A)(Q,P)	TRANSISTOR		
RECEIVER UNIT (X14-1780-11)						
C1 ,2			CE04FW1C100M	ELECTRO 10UF 16WV		
C3 ,4			C91-0749-05	CERAMIC 220PF K		
C5 ,6			CF92FV1H222J	MF 2200PF J	E	
C9 ,10			CE04FW1A101M	ELECTRO 100UF 10WV		
C11 ,12			CF92FV1H332J	MF 3300PF J		
C13 ,14			CF92FV1H123J	MF 0.012UF J		
C15 ,16			CE04FW1V4R7M	ELECTRO 4.7UF 35WV		
C17 -22		*	C91-0755-05	CERAMIC 680PF K		
C25 -28			CE04FW1H100M	ELECTRO 10UF 50WV		
C29			CE04FW1H010M	ELECTRO 1.0UF 50WV		
C30 -35			C91-0769-05	CERAMIC 0.01UF M		

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C36			CK45FF1H473Z	CERAMIC	0.047UF	Z		
C37,38			CE04FW1C470M	ELECTRO	47UF	16WV		
C39,40			CK45FF1H473Z	CERAMIC	0.047UF	Z		
C41,42			CE04FW1C101M	ELECTRO	100UF	16WV		
C43			CE04FW1A470M	ELECTRO	47UF	10WV		
C44			CE04FW1H010M	ELECTRO	1.0UF	50WV		
C45,46			CK45FF1H473Z	CERAMIC	0.047UF	Z		
C47			CE04HW1H3R3M	NP-ELEC	3.3UF	50WV		
C48			CK45FB1H102K	CERAMIC	1000PF	K		
C49			CK45FF1H473Z	CERAMIC	0.047UF	Z		
C101			CE04FW1C330M	ELECTRO	33UF	16WV		
C102			CE04FW1H010M	ELECTRO	1.0UF	50WV		
C103-107			C91-0769-05	CERAMIC	0.01UF	M		
C108			CE04FW1H010M	ELECTRO	1.0UF	50WV		
C109			C91-0745-05	CERAMIC	100PF	K	E	
C109		*	C91-0751-05	CERAMIC	330PF	K	KP	
C109		*	C91-0754-05	CERAMIC	560PF	K	UUE	
C110			CE04FW1H010M	ELECTRO	1.0UF	50WV		
C111			C91-0769-05	CERAMIC	0.01UF	M		
C112,113			CE04FW1C330M	ELECTRO	33UF	16WV		
C114			CE04FW1H010M	ELECTRO	1.0UF	50WV		
C115			CK45FF1H223Z	CERAMIC	0.022UF	Z		
C116			CE04FW1H010M	ELECTRO	1.0UF	50WV		
C117			C91-0769-05	CERAMIC	0.01UF	M	KPUUE	
C117,118			C91-0769-05	CERAMIC	0.01UF	M	E	
C119			CE04FW1C100M	ELECTRO	10UF	16WV	E	
C120			C009FS1H391JY8	POLYSTY	390PF	J		
C121			CK45FF1H473Z	CERAMIC	0.047UF	Z		
C122			C91-0757-05	CERAMIC	0.001UF	K		
C123-125			CK45FF1H223Z	CERAMIC	0.022UF	Z		
C126			CE04FW1C330M	ELECTRO	33UF	16WV		
C127			CK45FF1H223Z	CERAMIC	0.022UF	Z		
C128			C91-0757-05	CERAMIC	0.001UF	K		
C129			CE04FW1H3R3M	ELECTRO	3.3UF	50WV		
C130			CE04FW1V4R7M	ELECTRO	4.7UF	35WV		
C131			C91-0769-05	CERAMIC	0.01UF	M		
C132			CE04FW1HR47M	ELECTRO	0.47UF	50WV		
C133			CK45F1H103Z	CERAMIC	0.010UF	Z	E	
C134			C91-0769-05	CERAMIC	0.01UF	M		
C135			CE04FW1C470M	ELECTRO	47UF	16WV		
C136			CF92FV1H473J	MF	0.047UF	J		
C137			CF92FV1H103J	MF	0.010UF	J		
C138,139			CK45F1H103Z	CERAMIC	0.010UF	Z	E	
C140			CE04FW1C101M	ELECTRO	100UF	16WV		
C141			CE04FW1V4R7M	ELECTRO	4.7UF	35WV	KPUUE	
C141,142			CE04FW1V4R7M	ELECTRO	4.7UF	35WV	E	
C143			CF92FV1H473J	MF	0.047UF	J		
C144			CE04FW1H2R2M	ELECTRO	2.2UF	50WV		
C145			CE04FW1H3R3M	ELECTRO	3.3UF	50WV		
C146			C009FS1H102JY8	POLYSTY	1000PF	J		
C147			CE04FW1H010M	ELECTRO	1.0UF	50WV		
C148,149			CC45FSL1H121J	CERAMIC	120PF	J	UUE	
C148,149		*	CF92FV1H132J	MF	1300PF	J	KP	
C148,149			CK45FB1H471K	CERAMIC	470PF	K	E	
C150,151			C91-0769-05	CERAMIC	0.01UF	M		

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C152,153			CE04FW1H2R2M	ELECTRO	2.2UF	50WV	E	
C154,155			CF92FV1H222J	MF	2200PF	J	E	
C156,157			CE04FW1C100M	ELECTRO	10UF	16WV	E	
C156,157			CE04FW1H010M	ELECTRO	1.0UF	50WV	KPUUE	
C158,159			CK45F1H103Z	CERAMIC	0.010UF	Z	E	
C160,161			C91-0769-05	CERAMIC	0.01UF	M		
C162,163			CC45FCH1H390J	CERAMIC	39PF	J		
C164			CE04HW1H2R2M	NP-ELEC	2.2UF	50WV		
C165			CF92FV1H473J	MF	0.047UF	J		
C166			CE04FW1A101M	ELECTRO	100UF	10WV		
C167,168			C91-0769-05	CERAMIC	0.01UF	M		
C169			CE04FW1C330M	ELECTRO	33UF	16WV		
C170			CE04FW1A470M	ELECTRO	47UF	10WV		
C171			CE04FW1H010M	ELECTRO	1.0UF	50WV		
C172,173		*	CF92FV1H133J	MF	0.013UF	J	UUE	
C175			C91-0769-05	CERAMIC	0.01UF	M		
C176,177			CF92FV1H243J	MF	0.024UF	J	UUE	
C178		*	C91-0754-05	CERAMIC	560PF	K	UUE	
C179			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C201,202			CE04FW1HR47M	ELECTRO	0.47UF	50WV		
C209-212			CE04FW1H2R2M	ELECTRO	2.2UF	50WV		
C213,214			CE04FW1H010M	ELECTRO	1.0UF	50WV		
C215,216			CE04FW1HR22M	ELECTRO	0.22UF	50WV		
C217,218			CE04FW1H0R1M	ELECTRO	0.1UF	50WV		
C219,220			CF92FV1H473J	MF	0.047UF	J		
C221,222			CF92FV1H223J	MF	0.022UF	J		
C223,224			CF92FV1H822J	MF	8200PF	J		
C225,226			CF92FV1H332J	MF	3300PF	J		
C227,228			CF92FV1H184J	MF	0.18UF	J		
C229,230			CF92FV1H104J	MF	0.10UF	J		
C231,232			CF92FV1H223J	MF	0.022UF	J		
C233,234			CF92FV1H103J	MF	0.010UF	J		
C235,236			CF92FV1H272J	MF	2700PF	J		
C237,238			CF92FV1H122J	MF	1200PF	J		
C239,240			CK45FB1H471K	CERAMIC	470PF	K		
C241,242			CE04FW1H010M	ELECTRO	1.0UF	50WV		
C243,244			CE04FW1C100M	ELECTRO	10UF	16WV		
C245,246			CE04FW1C101M	ELECTRO	100UF	16WV		
C247			CK45FF1H473Z	CERAMIC	0.047UF	Z		
TC1 ,2			C05-0303-05	CERAMIC TRIMMER CAPACITOR(20PF				
106	2D,3D		E23-0125-05	TERMINAL (GND)				
E6 ,7	2D		E13-0621-05	PHONO JACK(6P) AUDIO INPUT				
E8	2D		E20-0452-05	SCREW TERMINAL BOARD(4P)ANT.				
CF1 ,2			L72-0140-05	CERAMIC FILTER			KPUUE	
CF1 ,2			L72-0190-05	CERAMIC FILTER			E	
CF3			L72-0099-05	CERAMIC FILTER				
CF4			L72-0096-05	CERAMIC FILTER				
L1			L40-2292-14	SMALL FIXED INDUCTOR(2.2UH,M)				
L2		*	L39-0128-05	PEAKING COIL				
L3			L40-2292-14	SMALL FIXED INDUCTOR(2.2UH,M)			E	
L4			L32-0277-15	MW OSCILLATING COIL				
L5			L31-0509-05	MW-RF COIL				
L6			L40-1021-14	SMALL FIXED INDUCTOR(1.0MH,K)				
L7			L40-2292-12	SMALL FIXED INDUCTOR(2.2UH,M)			E	

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L8			L79-0125-05	LC FILTER	E	
L9			L79-0154-05	LC FILTER	E	
T1		*	L30-0437-05	FM IFT		
T2		*	L30-0438-05	FM IFT		
T3			L30-0362-05	AM IFT		
X1			L77-0578-05	CRYSTAL RESONATOR(7.2MHZ)		
R68 -71			RD14GB2E100J	FL-PROOF RD 10 J 1/4W		
R101			RD14GB2E330J	FL-PROOF RD 33 J 1/4W	KPUUE	
R101			RD14GB2E680J	FL-PROOF RD 68 J 1/4W	E	
R119			RD14AB2E680J	FL-PROOF RD 68 J 1/4W	E	
R151			RD14AB2E680J	FL-PROOF RD 68 J 1/4W	E	
R155			RD14GB2E330J	FL-PROOF RD 33 J 1/4W	E	
R293,294			RD14GB2E220J	FL-PROOF RD 22 J 1/4W		
VR2			R12-3096-05	TRIMMING POT.(10K) VOL		
VR3			R12-3097-05	TRIMMING POT.(22K) SEPARATION	KP	
VR3			R12-3099-05	TRIMMING POT.(47K) SEPARATION	UUE	
VR3			R12-5046-05	TRIMMING POT.(100K)SEPARATION	E	
S1	2C		S40-4066-05	PUSH SWITCH (EQ)		
S2	2D		S31-2075-05	SLIDE SWITCH (FM DE-EMPHASIS	UUE	
D1 -28			1SS133	DIODE		
D31			KV1236(Z2)	VARIABLE CAPACITANCE DIODE		
D32 -35			1SS133	DIODE		
D36			RD6.2E(B)	ZENER DIODE		
D37			1SS133	DIODE		
IC1			AN6556F	IC(OP AMP X2)		
IC2		*	TC9164N	IC(16CH BILATERAL SELECTOR SW)		
IC3			TC9176P	IC(2CH ELECTRONIC VOLUME)		
IC4			AN6556F	IC(OP AMP X2)		
IC5		*	LA1232	IC(FM IF/DETECTION)		
IC6			LA1245	IC(AM)		
IC7			LA3390	IC(FM MPX)		
IC8			LM7000	IC(PLL FREQUENCY SYNTHESIZER)		
IC9			AN6556	IC(OP AMP X2)		
IC10		*	LC7522	IC(7CH GRAPHIC EQUALIZER)		
Q5 ,6			2SC945(A)(Q,P)	TRANSISTOR		
Q6			2SA733(A)(Q,P)	TRANSISTOR		
Q7			2SA933S(Q,R)	TRANSISTOR		
Q21			2SC1923	TRANSISTOR		
Q22 -24			2SC1740S(Q,R)	TRANSISTOR	E	
Q22 -24			2SC945(A)(Q,P)	TRANSISTOR	E	
Q24			2SC1740S(Q,R)	TRANSISTOR	KPUUE	
Q24			2SC945(A)(Q,P)	TRANSISTOR	KPUUE	
Q26 ,27			2SA733(A)(Q,P)	TRANSISTOR		
Q26 ,27			2SA933S(Q,R)	TRANSISTOR		
Q28 ,29			2SC1845(F,E)	TRANSISTOR		
Q30 ,31			2SC2003(L,K)	TRANSISTOR		
Q32 ,33			2SC1740S(Q,R)	TRANSISTOR	UUE	
Q32 ,33			2SC945(A)(Q,P)	TRANSISTOR	UUE	
Q41 -55			2SC1740S(Q,R)	TRANSISTOR		
Q41 -55			2SC945(A)(Q,P)	TRANSISTOR		
Q56			2SC2320(E,F)	TRANSISTOR		

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KR-V75R

PARTS LIST

* New Parts
Parts without **Parts No.** are not supplied.
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Telle ohne **Parts No.** werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
VIDEO CONTROL UNIT (X14-1790-11)						
C1 ,2			CE04FW1C330M	ELECTRO 33UF 16WV		
C3			CE04HW1C220M	NP-ELEC 22UF 16WV		
C4		*	CE04DW1A471M	ELECTRO 470UF 10WV		
C5 ,6		*	CE04DW1A331M	ELECTRO 330UF 10WV		
C7 -11			CK45FB1H561K	CERAMIC 560PF K	E	
C11			CK45FB1H561K	CERAMIC 560PF K	KPUUE	
C12			CE04FW1H010M	ELECTRO 1.0UF 50WV		
C14			CF92FV1H123J	MF 0.012UF J		
C15			CF92FV1H332J	MF 3300PF J		
C16			CF92FV1H123J	MF 0.012UF J		
C17			CF92FV1H332J	MF 3300PF J		
C18			CF92FV1H123J	MF 0.012UF J		
C19			CF92FV1H332J	MF 3300PF J		
C20			CE04FW1C100M	ELECTRO 10UF 16WV		
C21 ,22			CE04FW1H010M	ELECTRO 1.0UF 50WV		
C23 ,24			CE04FW1V4R7M	ELECTRO 4.7UF 35WV		
C25		*	CE04DW1C331M	ELECTRO 330UF 16WV		
C26 ,27			CE04FW1A470M	ELECTRO 47UF 10WV		
C28 ,29			CE04FW1C330M	ELECTRO 33UF 16WV		
C31			CE04FW1A470M	ELECTRO 47UF 10WV		
C32			CE04FW1C101M	ELECTRO 100UF 16WV		
C33			CE04FW1V4R7M	ELECTRO 4.7UF 35WV		
E9	1D		E13-0227-05	PHONO JACK(2P) MONITOR OUT		
E10 ,11	1D		E13-0625-05	PHONO JACK(6P) VIDEO		
R76			RD14GB2E560J	FL-PROOF RD 56 J 1/4W		
R86			RD14GB2E101J	FL-PROOF RD 100 J 1/4W		
R89			RD14GB2E101J	FL-PROOF RD 100 J 1/4W		
S1	1D	*	S31-2096-05	SLIDE SWITCH (MONO/STEREO)		
S2	2D	*	S42-2131-05	MULT. PUSH SWITCH(FM)		
D1 -8			1SS133	DIODE		
D1 -8			1S2076	DIODE		
D9			RD8.2E(B)	ZENER DIODE		
D10 ,11			RD6.2E(B)	ZENER DIODE		
IC1			BA7001	IC(SWITCHER FOR VCR)		
IC2 ,3			AN6556	IC(OP AMP X2)		
IC4			UPD4066BC	IC(BILATERAL SWITCH X4)		
Q1			2SC2320(E,F)	TRANSISTOR		
Q1			2SC945(A)(Q,P)	TRANSISTOR		
Q2			2SC2003(L,K)	TRANSISTOR		
Q3 ,4			2SC2320(E,F)	TRANSISTOR		
Q5 ,6			2SC1845(F,E)	TRANSISTOR		
Q7			2SC2320(E,F)	TRANSISTOR		
Q7			2SC945(A)(Q,P)	TRANSISTOR		
FRONT-END UNIT (X86-1010-11)						
C1		*	C91-0713-05	CERAMIC 2.2PF K	E	
C1		*	C91-0716-05	CERAMIC 3.9PF K	KPUUE	
C2			CC45FSL1H150J	CERAMIC 15PF J	E	
C2			CC45FSL1H470J	CERAMIC 47PF J	KPUUE	
C3			C91-0769-05	CERAMIC 0.01UF M	E	
C4			CK45F1H103Z	CERAMIC 0.010UF Z	E	
C4			C91-0757-05	CERAMIC 0.001UF K	KPUUE	

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C5		*	CC45FSL1H090D	CERAMIC 9.0PF D	E	
C6			CC45FSL1H060D	CERAMIC 6.0PF D	E	
C6	,7	*	C91-0716-05	CERAMIC 3.9PF K	KPUUE	
C7		*	C91-0716-05	CERAMIC 3.9PF K	E	
C8		*	C91-0720-05	CERAMIC 8.2PF K		
C9			C91-0749-05	CERAMIC 220PF K		
C10	,11		C91-0769-05	CERAMIC 0.01UF M		
C12			CC45FSL1H020C	CERAMIC 2.0PF C	E	
C13			C91-0709-05	CERAMIC 1PF M	KPUUE	
C13		*	C91-0713-05	CERAMIC 2.2PF K	E	
C14		*	CC45FUJ1H080D	CERAMIC 8.0PF D		
C15		*	C91-0725-05	CERAMIC 15PF J		
C16			C91-0733-05	CERAMIC 33PF J		
C17			C91-0769-05	CERAMIC 0.01UF M		
C18		*	C91-0713-05	CERAMIC 2.2PF K		
C19			CE04FW1C470M	ELECTRO 47UF 16WV		
C20			CC45FSL1H470J	CERAMIC 47PF J		
C21			C91-0769-05	CERAMIC 0.01UF M	E	
TC1			C05-0302-05	CERAMIC TRIMMER CAPACITOR(11PF		
L1			L31-0512-05	FM-RF COIL		
L2			L31-0513-05	FM-RF COIL		
L3			L31-0515-05	FM-RF COIL		
L4			L31-0514-05	FM-RF COIL	KPUUE	
L4	,5		L31-0514-05	FM-RF COIL	E	
L6			L40-1092-14	SMALL FIXED INDUCTOR(1UH,M)		
L7		*	L30-0427-05	FM IFT		
L8		*	L32-0318-05	FM OSCILLATING COIL		
L9			L40-1092-14	SMALL FIXED INDUCTOR(1UH,M)	E	
R16			RD14GB2E101J	FL-PROOF RD 100 J 1/4W		
D1	-4		KV1310-4	VARIABLE CAPACITANCE DIODE	E	
D1	,2		KV1310-3	VARIABLE CAPACITANCE DIODE	KPUUE	
D4			KV1310-3	VARIABLE CAPACITANCE DIODE	KPUUE	
Q1			2SK161(GR)	FET	KPUUE	
Q1			3SK73(GR)	FET	E	
Q2			2SC1923(O)	TRANSISTOR		
Q3			2SK161(Y,GR)	FET	E	
Q4	,5		2SC1923	TRANSISTOR		

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SPECIFICATIONS

KR-V75R
AUDIO SECTION
Power Output

70 watts per channel minimum RMS, both channel driven at 8 ohms from 20 Hz to 20,000 Hz with no more than 0.008 % total harmonic distortion

73 watts per channel minimum RMS, both channel driven at 8 ohms at 1 kHz with no more than 0.008 % total harmonic distortion

Total Harmonic Distortion
- **(20 Hz-20,000 Hz, 8 ohms)** ..... 0.008 % at 70 W
- **(1 kHz, 8 ohms)** ..... 0.002 % at 70 W

Inter modulation Distortion ..... 0.008 % at 70 W
Input Sensitivity/Impedance
- **PHONO (MM)** ..... 2.5 mV/47 kohms
- **CD/AUX, TAPE, VIDEO** ..... 150 mV/47 kohms

Frequency Response
- **PHONO (RIAA standard Curve)** ..... 20 Hz-20,000 Hz ...±0.5 dB
- **TAPE, CD/AUX** ..... 10 Hz-100,000 Hz ...+0 dB, −3 dB

Signal to Noise Ratio
- **PHONO (MM)** ..... 73 dB
- **CD/AUX, TAPE, VIDEO** ..... 100 dB

Graphic Equalizer
- **Center Frequency** ..... 60 Hz, 150 Hz, 400 Hz, 1 kHz, 2.4 kHz, 6 kHz, 15 kHz
- **Control Range** ..... ±12 dB

VIDEO SECTION
Inputs **VIDEO 1,2** ..... 1 Vp-p, 75 ohms unbalanced
Output **VIDEO 1,2** ..... 1 Vp-p, 75 ohms unbalanced
MONITOR VIDEO OUT ..... 1 Vp-p, 75 ohms unbalanced

FM TUNER SECTION
Tuning Frequency Range ..... 87.5 MHz-108 MHz
Antenna Impedance ..... 300 ohms balanced & 75 ohms unbalanced
Usable Sensitivity ..... 10.8 dBf (1.9 μV)
50 dB Quieting Sensitivity
- **MONO** ..... 14.2 dBf (2.8 μV)
- **STEREO** ..... 36.8 dBf (38 μV)

Signal to Noise Ratio at 65 dBf
- **MONO** ..... 80 dB
- **STEREO** ..... 72 dB

Total Harmonic Distortion at 1,000 Hz
- **MONO** ..... 0.07 %
- **STEREO** ..... 0.1 %

Frequency Response ..... 30 Hz-15,000 Hz +0.5 dB, −2 dB
Stereo Separation ..... 50 dB at 1,000 Hz
Selectivity ..... 55 dB at 400 kHz
Capture Ratio ..... 1.0 dB
Image Rejection Ratio ..... 38 dB
IF Rejection Ratio ..... 80 dB
Spurious Rejection Ratio ..... 75 dB
AM Suppression Ratio ..... 72 dB

AM TUNER SECTION
Tuning Range
530 kHz-1,610 kHz
(with the AM tuning interval set at 10 kHz)
Usable Sensitivity ..... 10 μV (400 μV/m)
Signal to Noise Ratio ..... 50 dB
Total Harmonic Distortion ..... 0.3 %
Selectivity ..... 25 dB

GENERAL
Power Requirement ..... 60 Hz, 120 V
Power Consumption ..... 3.0 A
AC Outlet ..... Switched × 3 (200 W)
Dimensions ..... 420(W)×128.5(H)×321(D)mm (16-9/16"×5-1/6"×12-5/8")
Weight (Net) ..... 8.8 kg (19.4 lb)

Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Kenwood poursuit une politique de progrès constants en ce qui concerne le développement. Pour cette raison, les spécifications sont sujettes à modifications sans préavis.

Kenwood strebt standige Verbesserungen in der Entwicklung an Daher bleiben Anderungen der technischen Daten jederzeit vorbehalten.