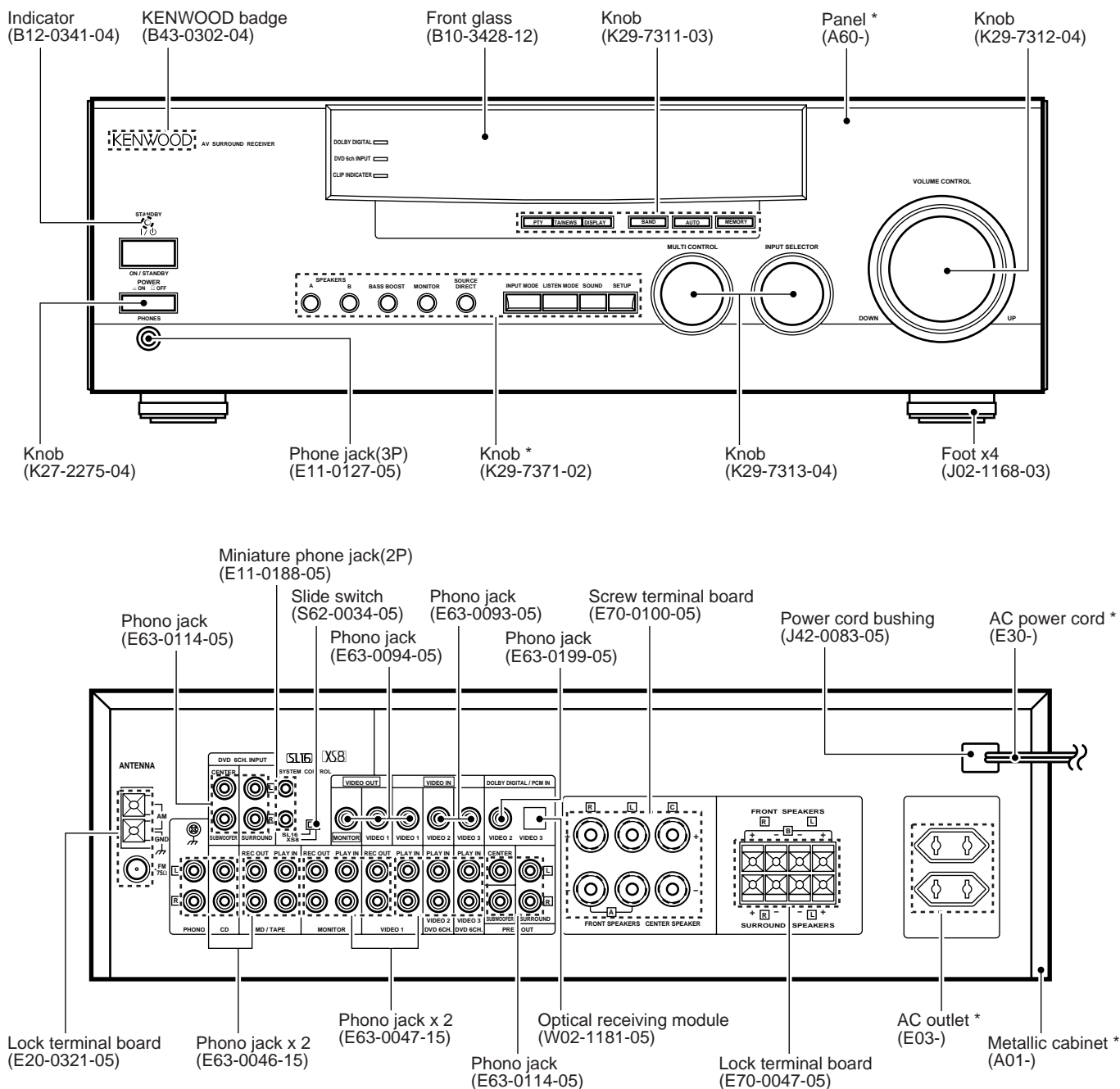


This manual is available for repair in the Europe, England, Australia and Russia markets. Please refer to the original manual (B51-5419-00) if need the information in the USA and Canada and other markets.



* Refer to parts list on page 31 .



KRF-V8010D/V8010DW

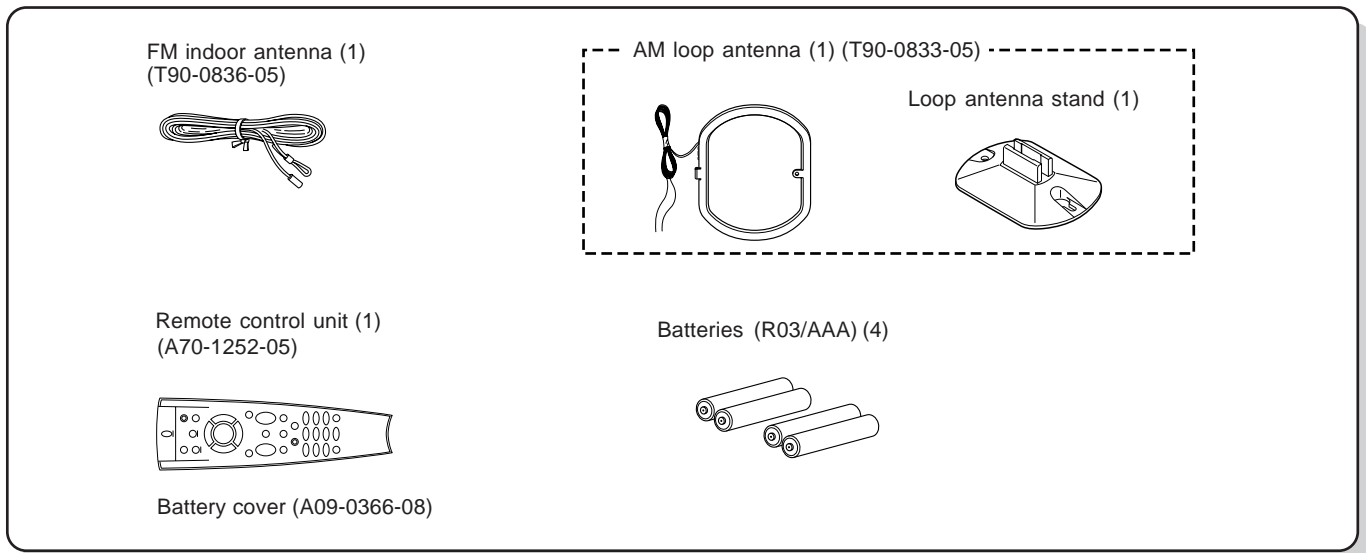
CONTENTS / ACCESSORIES / CAUTIONS

Contents

| | | | |
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Please refer to KRF-V5010 (B51-5425-00) and KRF-V7510D (B51-5419-00) service manuals if need the information on circuit description.

Accessories



Cautions

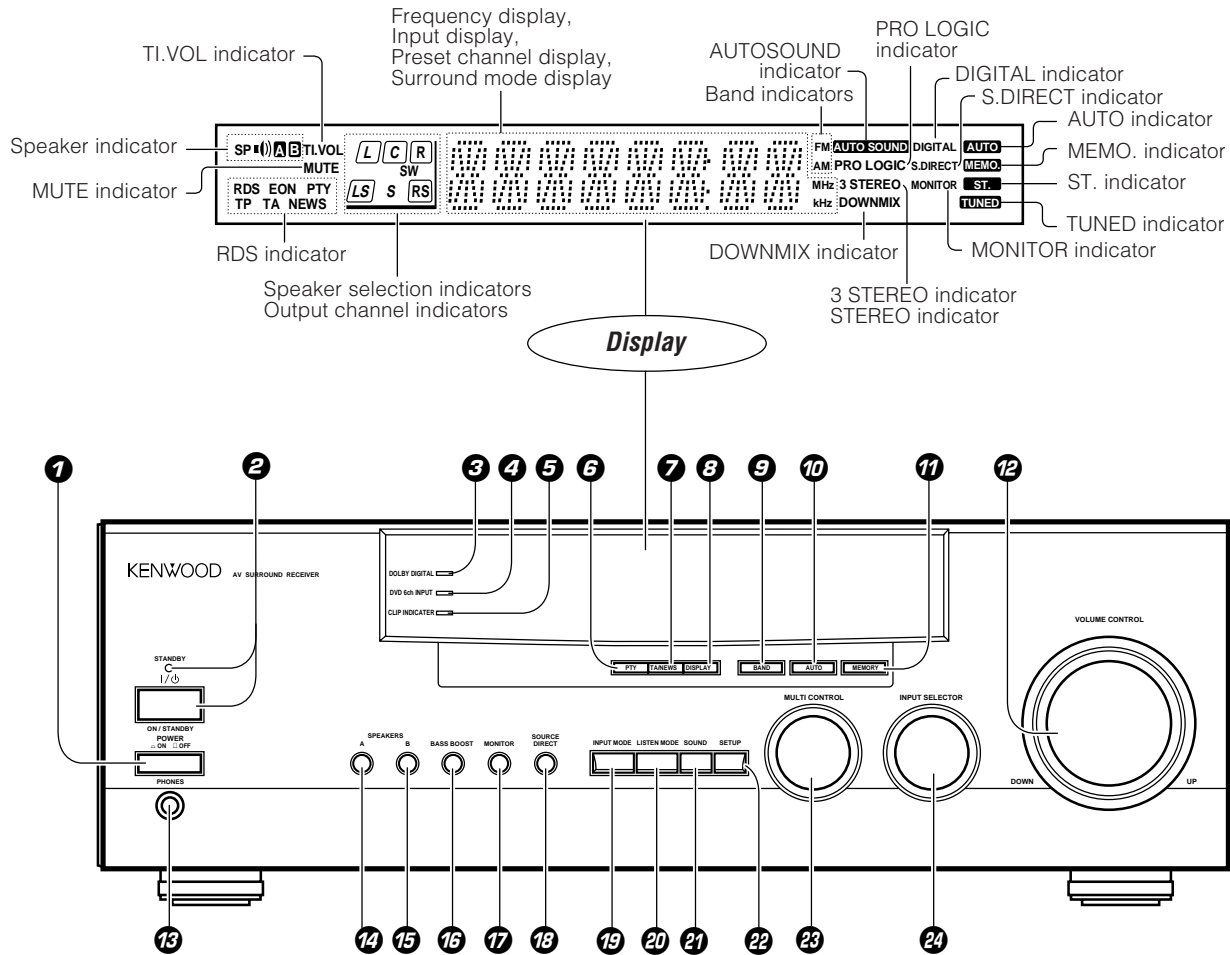
Resetting the Microcomputer

If the microcomputer may malfunction (unit cannot be operated, or shows an erroneous display) if the power cord is unplugged while the power is ON, or due to some other external factor. If this happens, execute the following procedure to reset the microcomputer and return the unit to its normal operating condition.

With the power cord plugged in, turn the POWER key OFF. Then, while holding down the ON/STANDBY key, press POWER.

- Please note that resetting the microcomputer will clear the contents of the memory and returns the unit to the state it was in when it left the factory.

CONTROLS

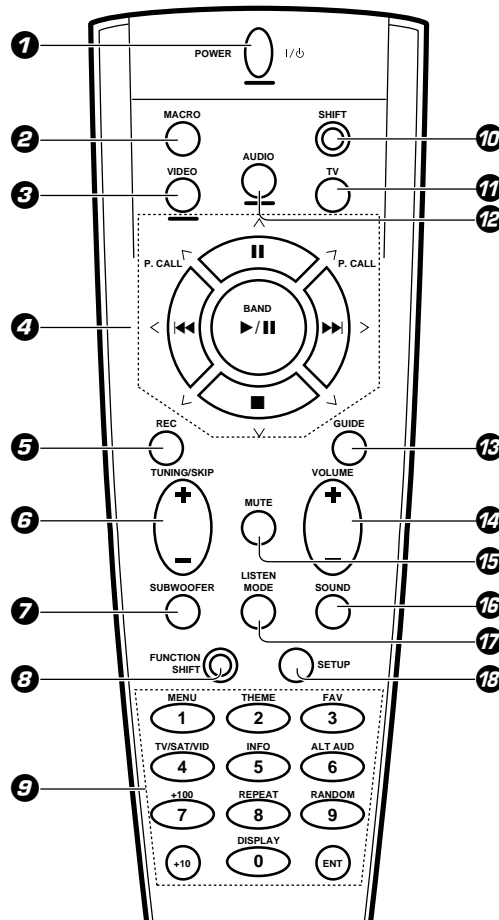


- 1 POWER key**
Use to turn the main power ON/OFF.
- 2 ON/STANDBY (1/φ) key**
Use to switch the power ON/STANDBY when the POWER is turned ON.
STANDBY indicator
- 3 DOLBY DIGITAL indicator**
Lights when the receiver is in the Dolby Digital mode.
- 4 DVD 6ch INPUT indicator**
Lights when the receiver is in the DVD 6ch INPUT mode.
- 5 CLIP INDICATOR indicator**
Lights when the input signal is too large to be handled by the receiver, and "clipping" is occurring.
- 6 PTY key**
Use to perform PTY search.
- 7 TA/NEWS key**
- 8 DISPLAY key**
Use to change the display indications when receiving RDS broadcasts.
- 9 BAND key**
Use to select the broadcast band.
- 10 AUTO key**
Use to select the auto tuning mode
- 11 MEMORY key**
Use to store radio stations in the preset memory.
- 12 VOLUME CONTROL knob**
- 13 PHONES jack**
Use for headphone listening.
- 14 SPEAKERS A key**
Use to turn speaker system A on and off.
- 15 SPEAKERS B key**
Use to turn speaker system B on and off.
- 16 BASS BOOST key**
Use to select the maximum adjustment setting for the low frequency range.
- 17 MONITOR key**
- 18 SOURCE DIRECT key**
- 19 INPUT MODE key**
Use to switch between the digital and analog inputs.
- 20 LISTEN MODE key**
Use to select the listening mode.
- 21 SOUND key**
Use to adjust the sound quality and ambience effects.
- 22 SETUP key**
Use to select the surround sound settings.
- 23 MULTI CONTROL knob**
Used to make a variety of settings.
- 24 INPUT SELECTOR knob**
Use to select the input sources.

About the STANDBY indicator

This unit has a STANDBY indicator. When the STANDBY indicator is lit, the unit consumes a small amount of power to preserve the memory. This is called STANDBY mode. This mode also lets you turn the power ON using the remote control.

CONTROLS



There are some cases in which keys (or knobs) that have the same function on the receiver and on the remote control have different names. In the instructions of this manual, if the names of corresponding keys (or knobs) on the receiver and remote control are different, the name of the remote control key is indicated in parentheses).

1 POWER key

Use to turn the receiver on and off. Use in combination with the input selector (AUDIO, VIDEO, or TV) keys and SHIFT key to turn various components on and off.

2 MACRO key

Use in combination with the AUDIO, VIDEO, or TV keys to execute a series of commands automatically (MACRO PLAY).

3 VIDEO selector key

Selects the video inputs and sets the remote control to operate the component registered at the respective input.

4 Multi control keys

Use to operate the selected component.

5 REC key

Use to operate the selected component.

6 TUNING/SKIP key

Use during the setup procedure to specify various settings. Use to operate the tuner or selected component.

7 SUBWOOFER key

Use in combination with the VOLUME +/- keys to adjust the volume of the subwoofer.

8 FUNCTION SHIFT key

Use in combination with the numeric keys to execute alternate commands.

9 Numeric keys

Provide functions identical to those of the original remote control supplied with the component you are controlling.

To access the functions printed above the keys, press within 3 seconds of pressing the FUNCTION SHIFT key. Function availability varies for each component.

10 SHIFT key

Use in combination with the AUDIO and VIDEO keys to change the remote control mode without changing the input selector or in combination with the POWER key to turn on and off components programmed into the remote control.

11 TV selector key

Sets the remote control to operate a TV or cable box. This key does not change the input selector on the receiver.

12 AUDIO selector key

Selects the audio inputs and sets the remote control to operate the respective KENWOOD audio component.

If you connect audio components from KENWOOD and other makers to the MD/TAPE or CD jacks, you can set the remote control to operate these components by registering the appropriate setup code at the respective input.

13 GUIDE key

Use to activate the OSD menu functions of registered components.

14 VOLUME key

Use to adjust the receiver volume.

15 MUTE key

Use to temporarily mute the sound.

16 SOUND key

Use to adjust the sound quality and ambience effects.

17 LISTEN MODE key

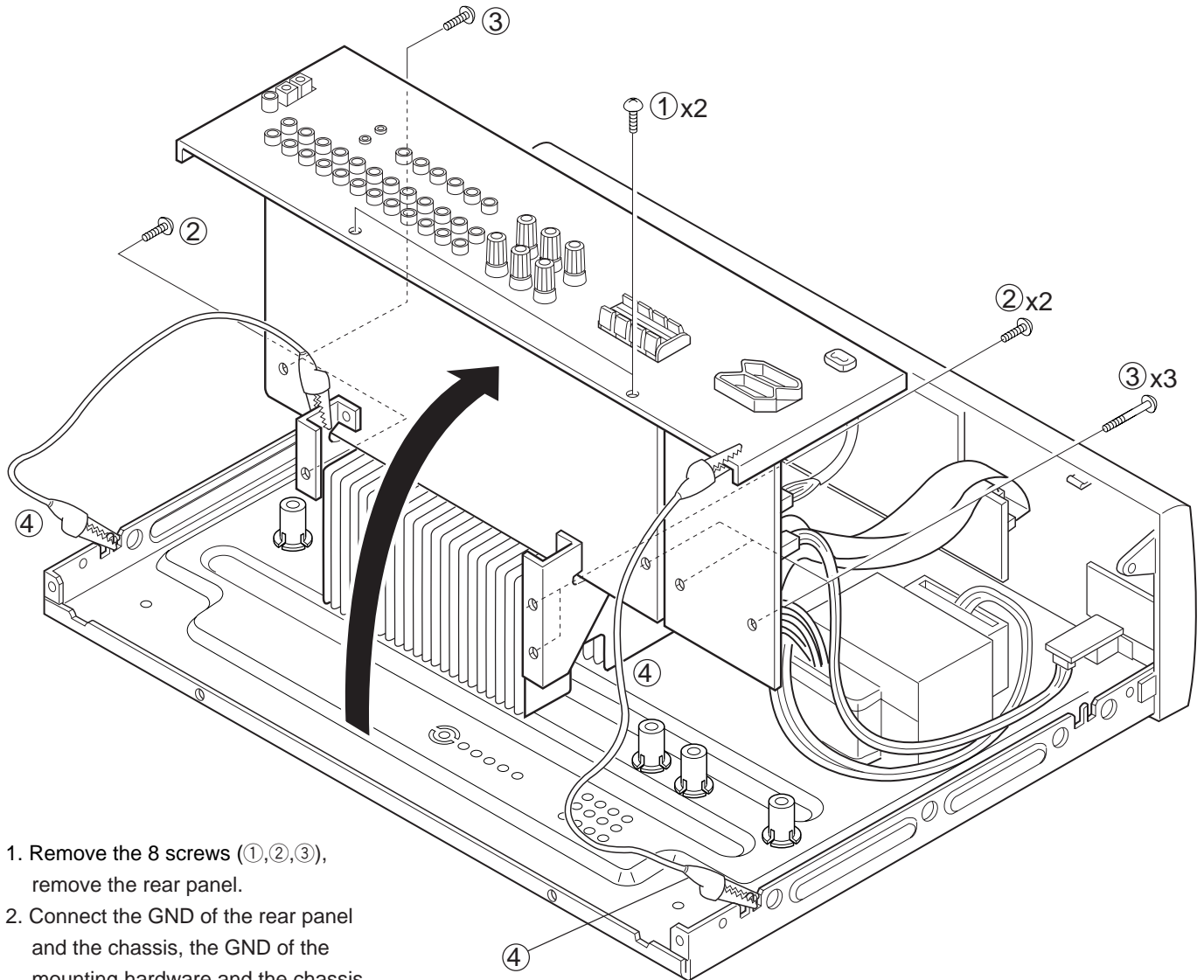
Use to select the listening mode.

18 SETUP key

Use to select the surround sound settings.

KRF-V8010D/V8010DW

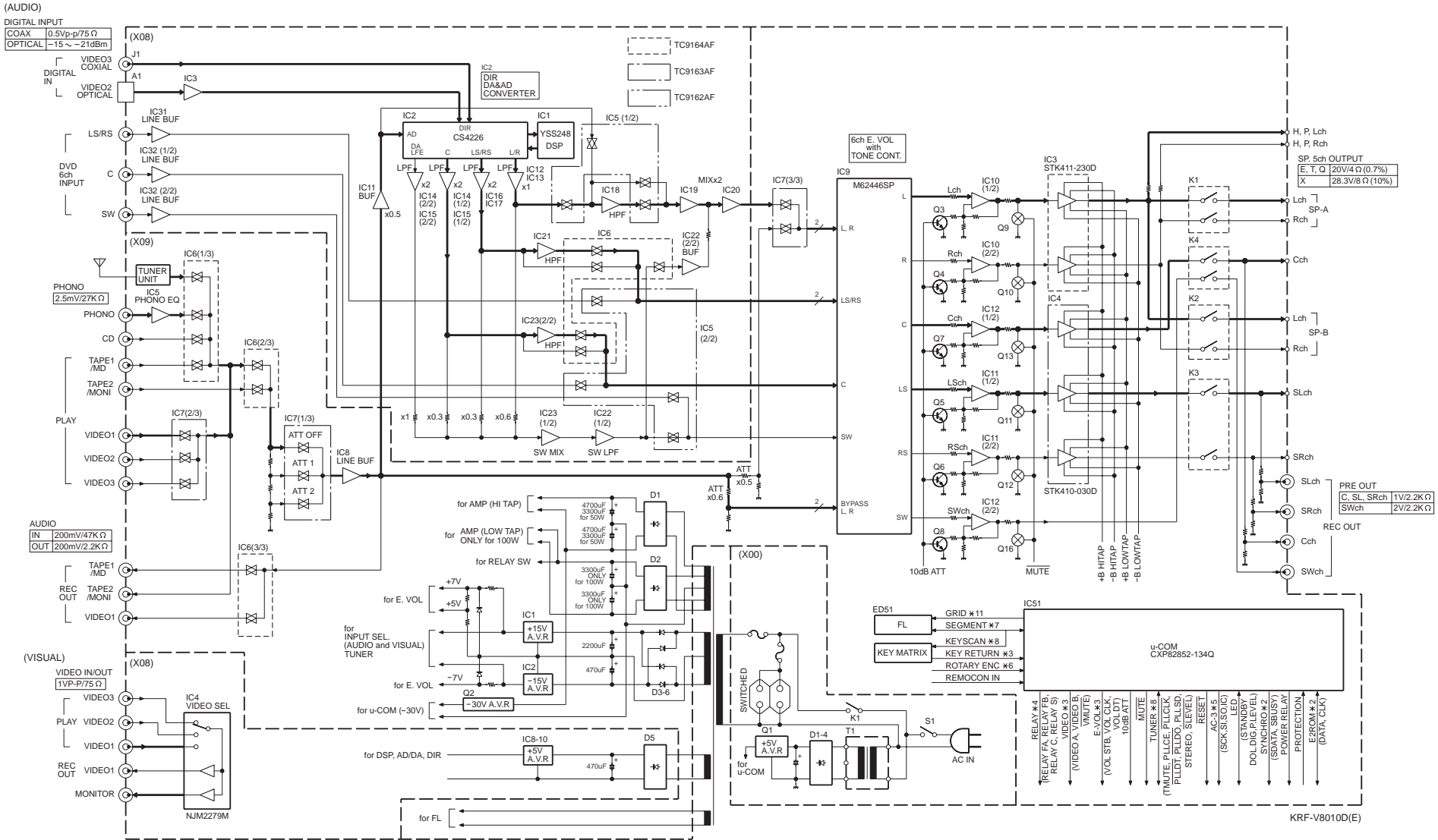
DISASSEMBLY FOR REPAIR



1. Remove the 8 screws (①,②,③), remove the rear panel.
2. Connect the GND of the rear panel and the chassis, the GND of the mounting hardware and the chassis with 2 alligators clip (④)

KRF-V8010D/V8010DW

BLOCK DIAGRAM



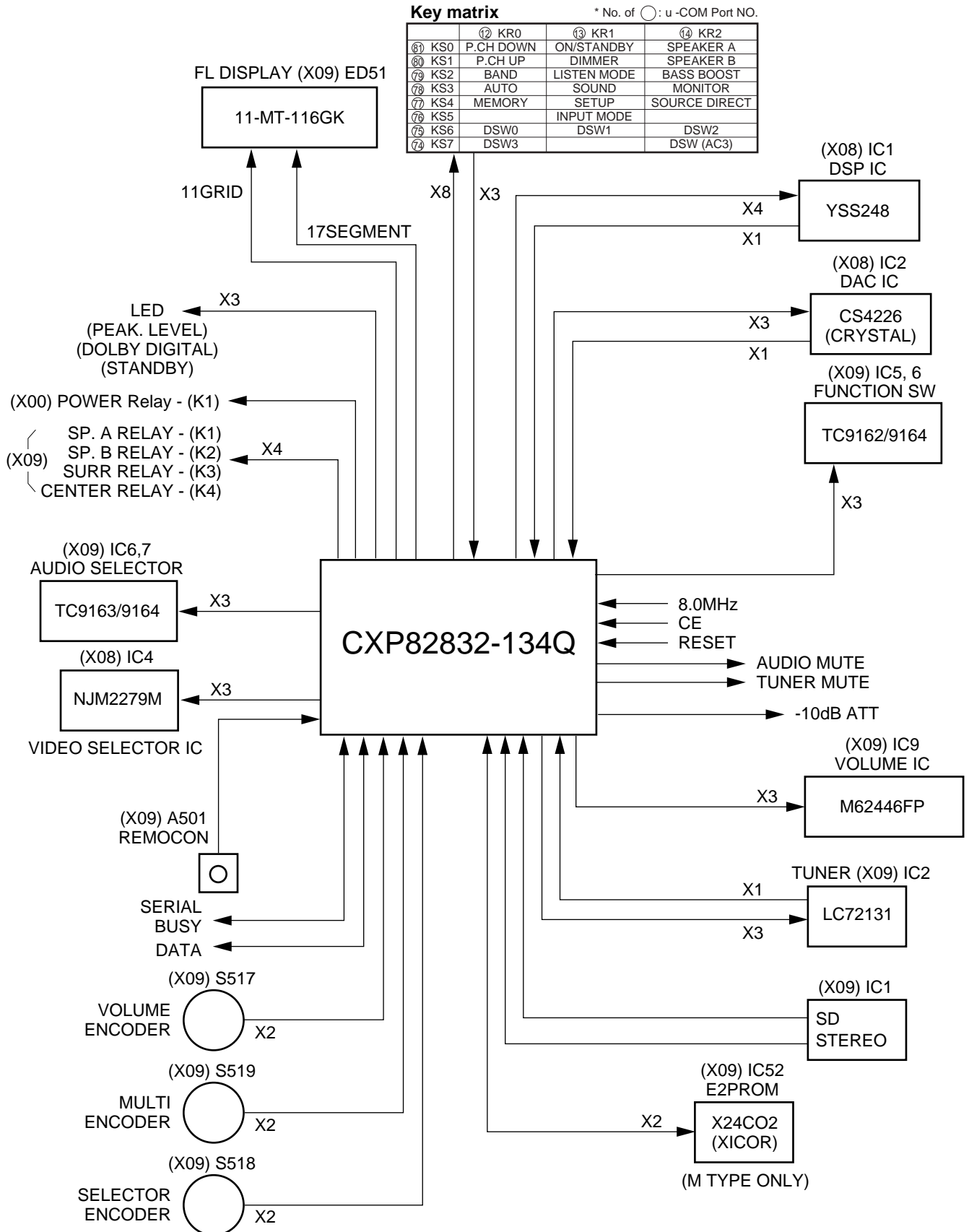
KRF-V8010D(E)

KRF-V8010D/V8010DW

CIRCUIT DESCRIPTION

1. Microprocessor: CXP82832-134Q(X09 : IC51)

1-1 Microprocessor periphery block diagram



KRF-V8010D/V8010DW

CIRCUIT DESCRIPTION

1-2 Pin description

| Pin No. | Pin Name | I/O | Description |
|---------|-------------|-----|---|
| 1,2 | G10,11 | O | Display grids 10,11 |
| 3 | None | - | Ic test mode port. |
| 4 | CK | I | RDS clock input. |
| 5 | RDS. DT | I | RDS data input. |
| 6 | AUDIO | I | Audio signal detection port. L=AUDIO. |
| 7 | VOL.ENC.A | I | Volume encoder A(clockwise) input. |
| 8 | REMOCON | I | Remote contol signal input. |
| 9 | VOL.ENC.B | I | Volume encoder B(counterclockwise) input. |
| 10,11 | None | O | Ic test mode port. |
| 12-14 | KR0-2 | I | Key return 0-2. |
| 15 | PROTECT | I | Protection signal detection port. H=PROTECT. |
| 16 | S.DATA | I/O | Serial DATA signal. |
| 17 | S.BUSY | I/O | Serial BUSY signal. |
| 18 | E2.DT | I/O | E2 PROM data. |
| 19 | E2.CLK | I/O | E2 PROM clock. |
| 20 | SEL.ENC.A | I | Selector encoder A(clockwise) input. |
| 21 | SEL.ENC.B | I | Selector encoder B(counterclockwise) input. |
| 22 | MULTI.ENC.A | I | Multi encoder A(clockwise) input. |
| 23 | MULTI.ENC.B | I | Multi encoder B(counterclockwise) input. |
| 24 | AC3 | I | AC-3 signal detection. |
| 25 | AC3.SCK | O | YSS248 clock output. |
| 26 | AC3.SI | I | YSS248 data input. |
| 27 | AS3.SO | O | YSS248 data output. |
| 28 | Vdd | - | Analog power supply(+5V) |
| 29 | S. LEVEL | I | Signal level A/D input. |
| 30 | SEL.ST2 | O | TC9162AF/63AF/64AF st2 output. H=latch. |
| 31 | AC3.CS | O | YSS248 CS output. |
| 32 | CODEC.CS | O | CS4226 CS output. |
| 33 | PLL.DO | I | Pll ic do signal input port. |
| 34 | PLL.ST | I | Tuner stereo signal detection port. L=STEREO. |
| 35 | PLL.SD | I | Tuner sd signal detection port. L=TUNED. |
| 36 | RCV.CE | I | Receiver chip enable signal port. L=ENABLE. |
| 37 | Avss | - | Analog GND. |
| 38 | RESET | I | Microproessor reset signal. |
| 39,40 | 8MHz | I | Main clock generation(8MHz). |
| 41 | Vss | - | Microprocessor GND. |
| 42 | None | I | No connect |
| 43 | TEX | - | GND. |
| 44 | Vdd | - | Power supply(+5V). |
| 45 | Vfdp | - | Power supply(-33V). |
| 46 | SEL.ST1 | O | TC9162AF/63AF/64AF st1 output. H=latch. |
| 47 | PLL.DT | O | Pll ic data signal output. |
| 48 | PLL.CK | O | Pll ic clock signal output. |
| 49 | PLL.CE | O | Pll ic ce signal output port. |
| 50 | T.TUNE | O | Tuner mute control. L=mute on. |
| 51 | A.MUTE | O | Output mute control. L=mute on. |
| 52 | SW.MUTE | O | Sub woofer mute control. L=mute on. |
| 53 | 10dB.ATT | O | Volume 10dB attenuation control. H=att. on. |
| 54 | VOL.DT | O | Volume ic (M62446SP) data control. |
| 55 | VOL.CK | O | Volume ic (M62447SP) clock control. H=active. |

KRF-V8010D/V8010DW

CIRCUIT DESCRIPTION

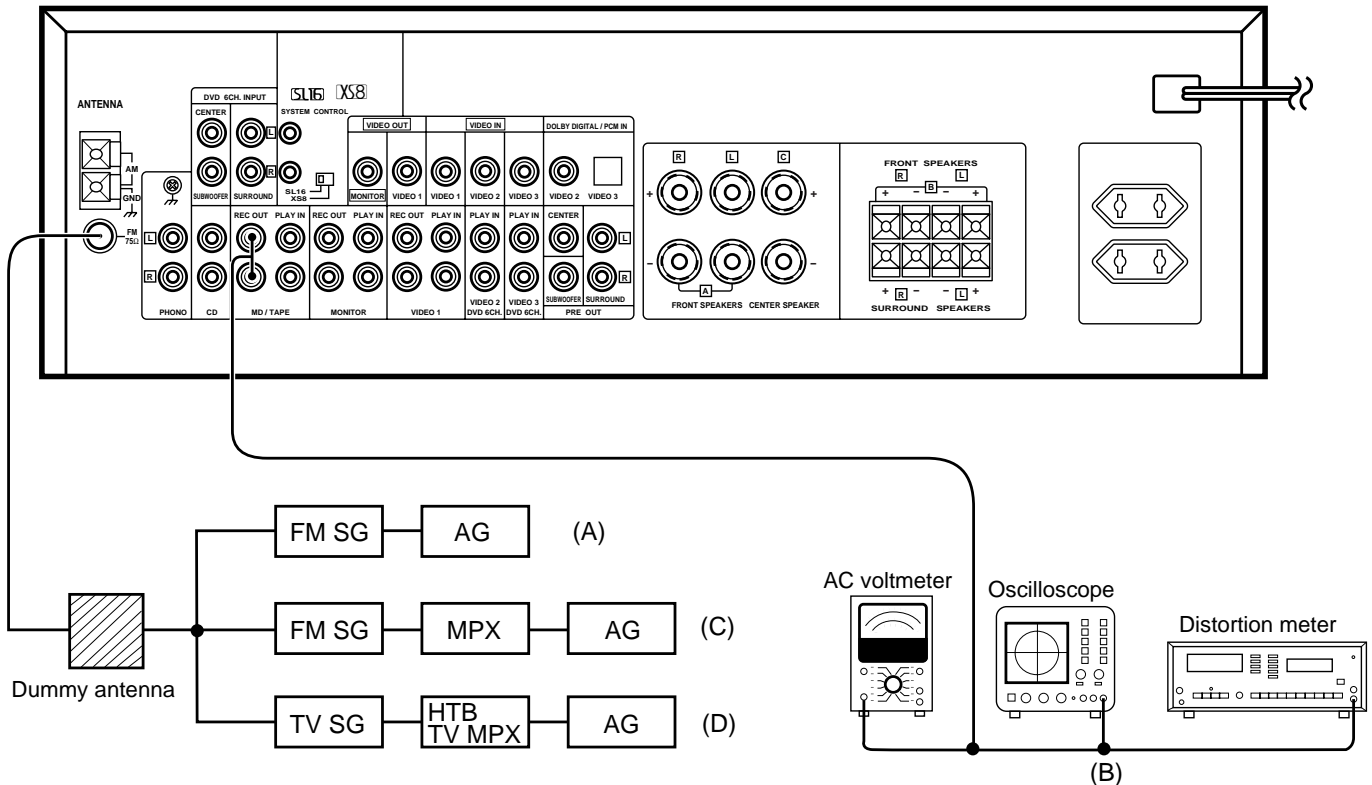
| Pin No. | Pin Name | I/O | Description |
|---------|----------------|-----|--|
| 56 | VOL.ST | O | Volume ic (M62448SP) st control. H=active. |
| 57 | VCR.MUTE | O | Video ic (NJU2279D) cont2/4 mute control. L=mute on. |
| 58 | VCR.A | O | Video ic (NJU2279D) cont1 mute control. H/L=static. |
| 59 | VCR.B | O | Video ic (NJU2279D) cont3 mute control. H/L=static. |
| 60 | FA.RLY | O | Front A speaker relay control. H=relay on. |
| 61 | FB.RLY | O | Front B speaker relay control. H=relay on. |
| 62 | C.RLY | O | Center speaker relay control. H=relay on. |
| 63 | S.RLY | O | Rear speaker relay control. H=relay on. |
| 64 | POWER.RLY | O | Power relay control. H=relay on. |
| 65 | STANDBY.LED | O | Standby led control.L=led on. |
| 66 | DOL.DIG.LED | O | Dolby digital led control.L=led on. |
| 67 | CLIP INDI. LED | O | Clip indicator led control.L=led on. |
| 68 | DVD 6CH LED | O | DVD 6CH input level control. |
| 69-70 | None | O | No connect |
| 71 | PACL_CTL | O | Non oscillation of power pack ic at power off. L=stop oscillation. |
| 72 | AC3.IC | O | YSS248/CS4226 initial clear port. |
| 73 | EMPHASIS | O | Tuner emphasis on/off. H=100k/10k,L=50k/9k. |
| 74-81 | P1-8 | O | Display segments 1-8 & key returns 0-7. |
| 82-88 | P9-15 | O | Display segments 9-15. |
| 89 | Vdd | O | Microprocessor power supply(+5V) |
| 90,91 | P16,17 | O | Display segments 16,17 |
| 92-100 | G1-9 | O | Display grids 1-9. |

KRF-V8010D/V8010DW

ADJUSTMENT

| No. | ITEM | INPUT SETTINGS | OUTPUT SETTINGS | TUNER SETTINGS | ALIGNMENT POINTS | ALIGN FOR | FIG. |
|---|------------------------|--|---|-----------------|-----------------------------|---|------|
| FM SECTION SELECTOR : FM ※ Adjust NO.1 and NO.2 repeat. | | | | | | | |
| 1 | DISCRIMINATOR | (A) 98.0MHz 1kHz, ±40kHz dev. 70dBf (ANT. input) | Connect a DC voltmeter between CN2 ① and CN2 ② (TUNER UNIT) | MONO 98.0MHz | L4 (TUNER UNIT) | 0V | (a) |
| 2 | DISTORTION (MONO) | (A) 98.0MHz 1kHz, ±40kHz dev. MONO 70dBf (ANT. input) | (B) | MONO 98.0MHz | L5 (TUNER UNIT) | Minimum distortion | (a) |
| 3 | DISTORTION (STEREO) | (C) 98.0MHz 1kHz, ±40kHz dev. Selector : L or R Pilot : ±6kHz dev. 70dBf (ANT. input) | (B) | AUTO 98.0MHz | IFT (TUNER UNIT : A1) | Minimum distortion (L or R) | (a) |
| 4 | TUNING LEVEL | (A) 98.0MHz MONO 1kHz, ±40kHz dev. 25dBf (ANT. input) | (B) | MONO 98.0MHz | VR1 (TUNER UNIT) | Adjust VR1 and stop at the point where ED51 (TUNED) goes on. | (a) |

SYSTEM CONNECTIONS



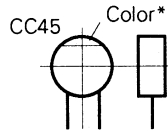
KRF-V8010D/V8010DW

PARTS DESCRIPTIONS

CAPACITORS

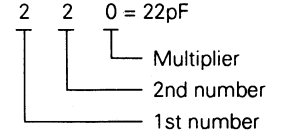
CC 45 TH 1H 220 J
 1 2 3 4 5 6

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



Capacitor value

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



Temperature coefficient

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

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

Example : CC45TH = -470 ± 60ppm/°C

Tolerance (More than 10pF)

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

(Less than 10pF)

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

Voltage rating

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

Chip capacitors

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

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

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

(Chip) (B, F)

Refer to the table above.

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

Dimension (Chip capacitors)

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

RESISTORS

Chip resistor (Carbon)

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

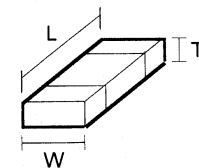
(Chip) (B,F)

Carbon resistor (Normal type)

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

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

Dimension



Dimension (Chip resistor)

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

Rating wattage

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

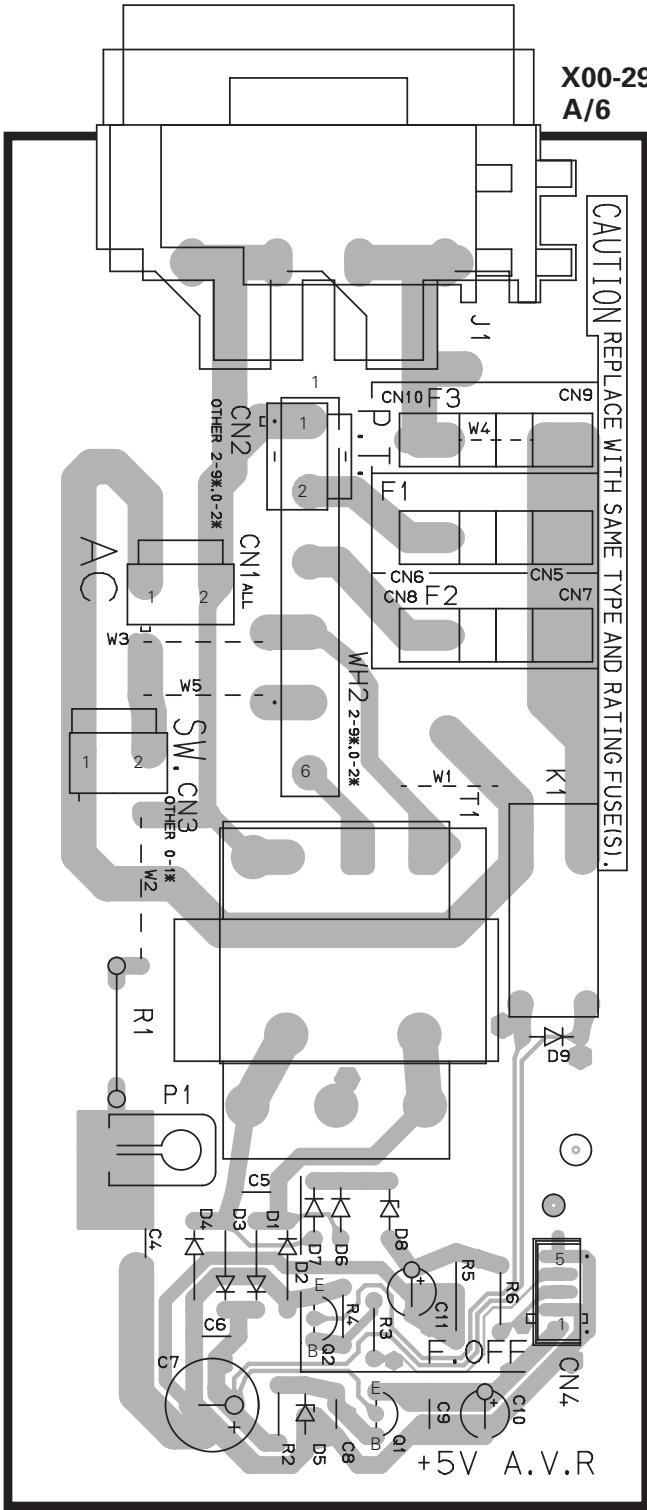
PC BOARD(Component side view)

POWER SUPPLY UNIT

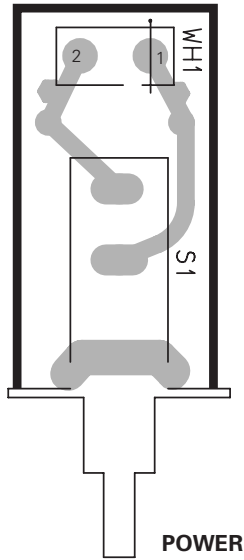
AC OUTLET

X00-2912-71
A/6

CAUTION REPLACE WITH SAME TYPE AND RATING FUSE(S).

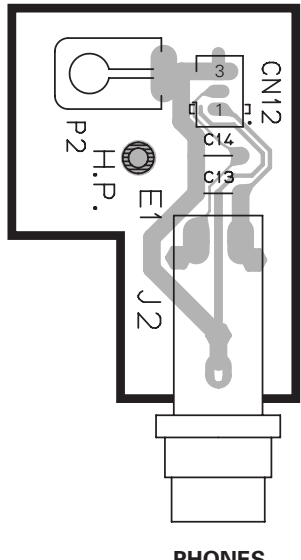


X00 B/6



POWER

X00 D/6

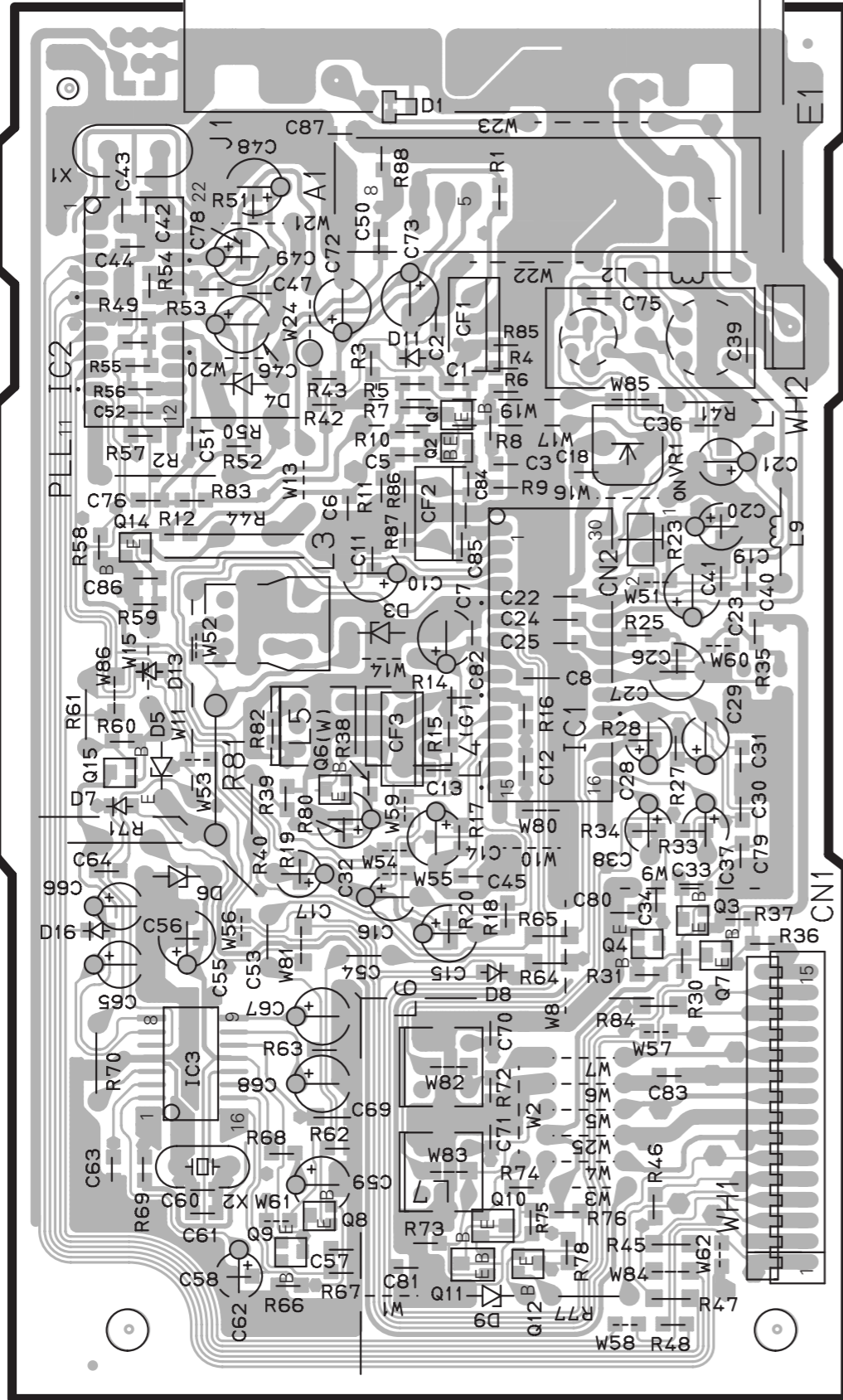


PHONES

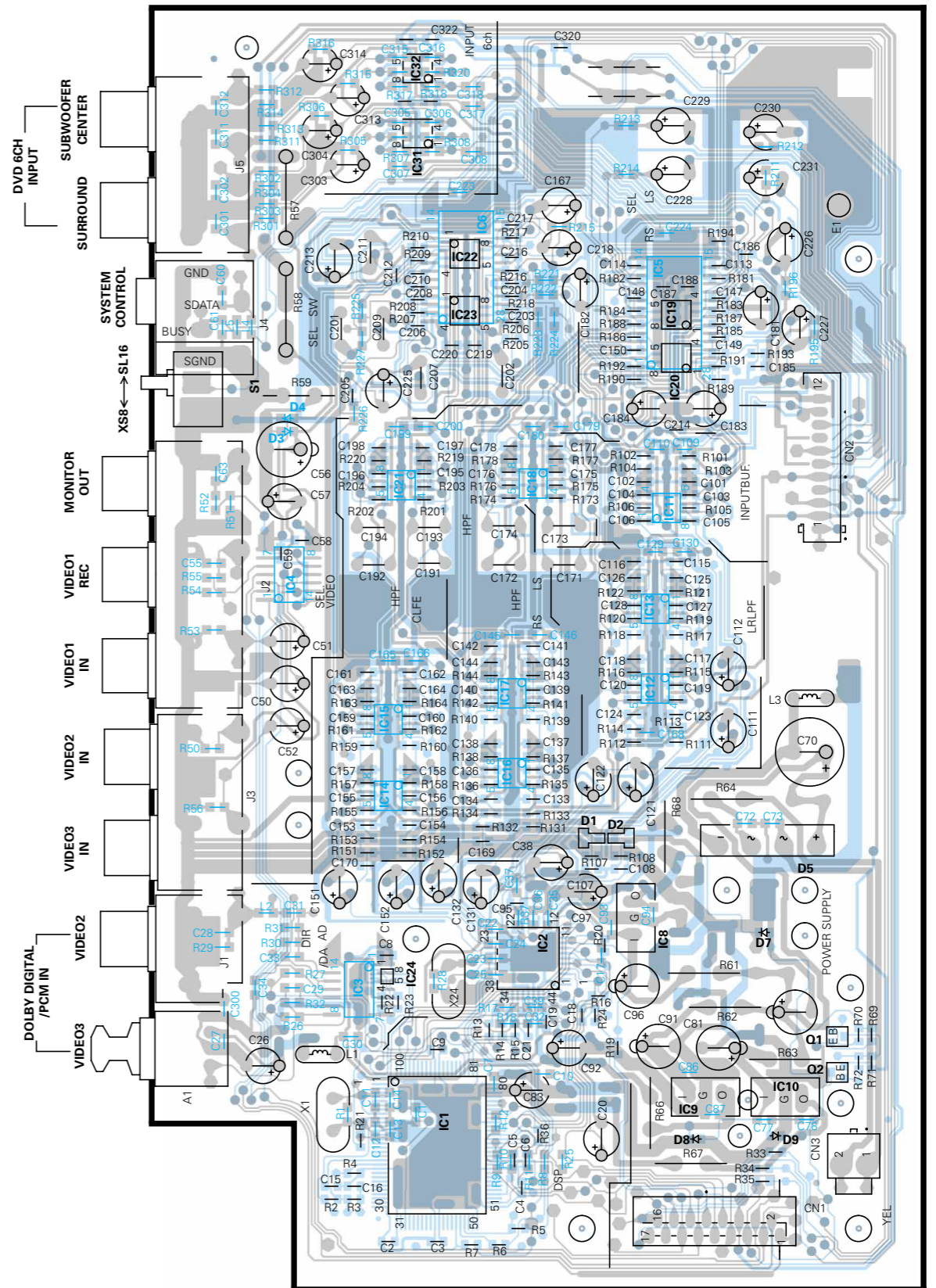
PC BOARD(Component side view)

TUNER UNIT
X05-4932-70

ANTENNA

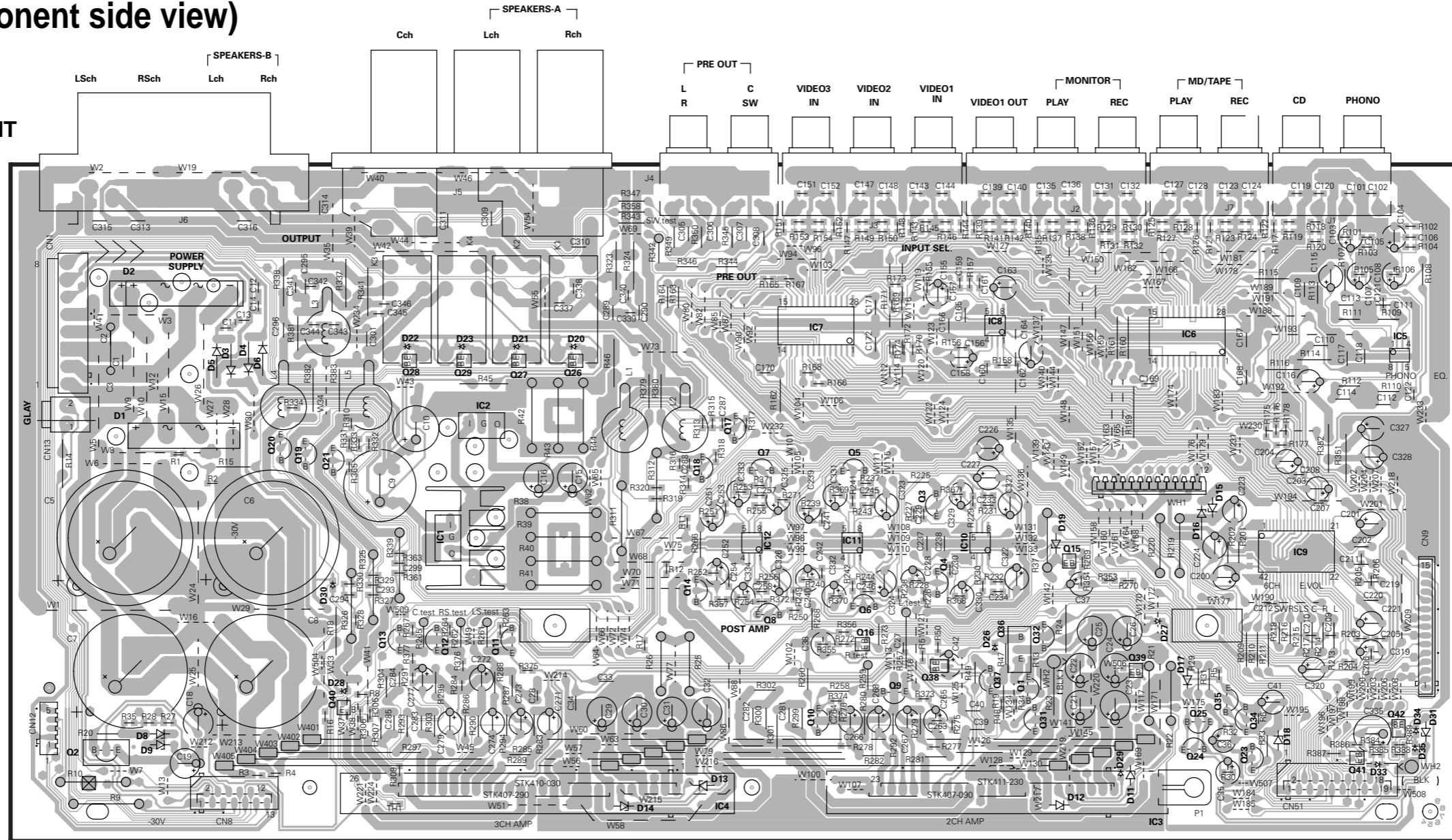


SURROUND UNIT
X08-2952-70

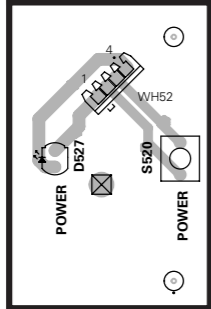


PC BOARD(Component side view)

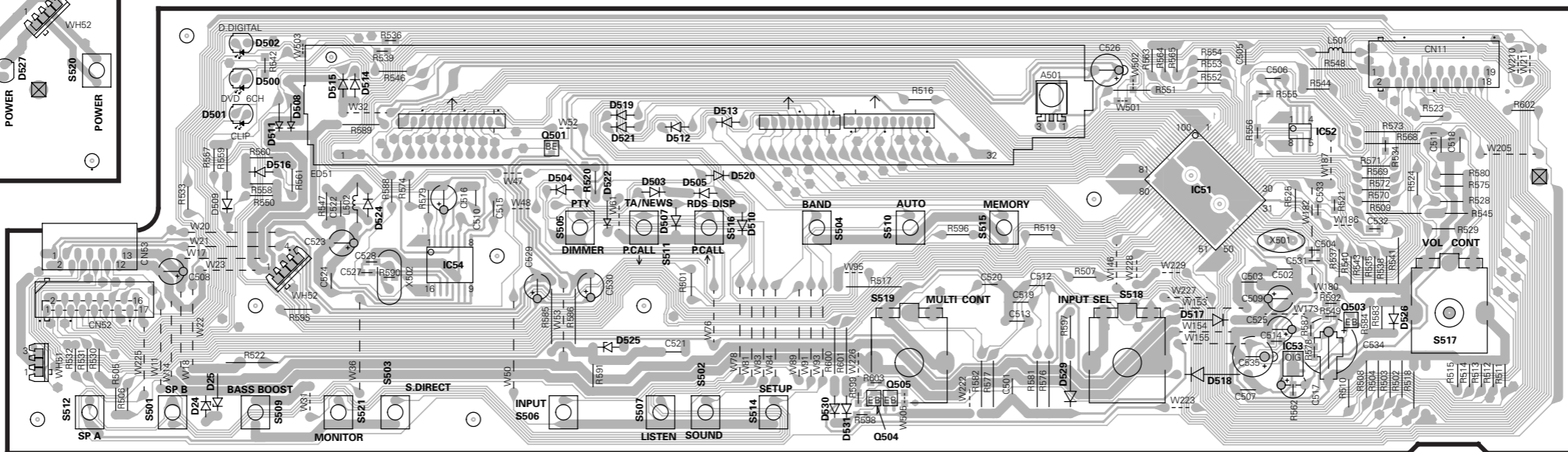
AUDIO UNIT



X09 C/3

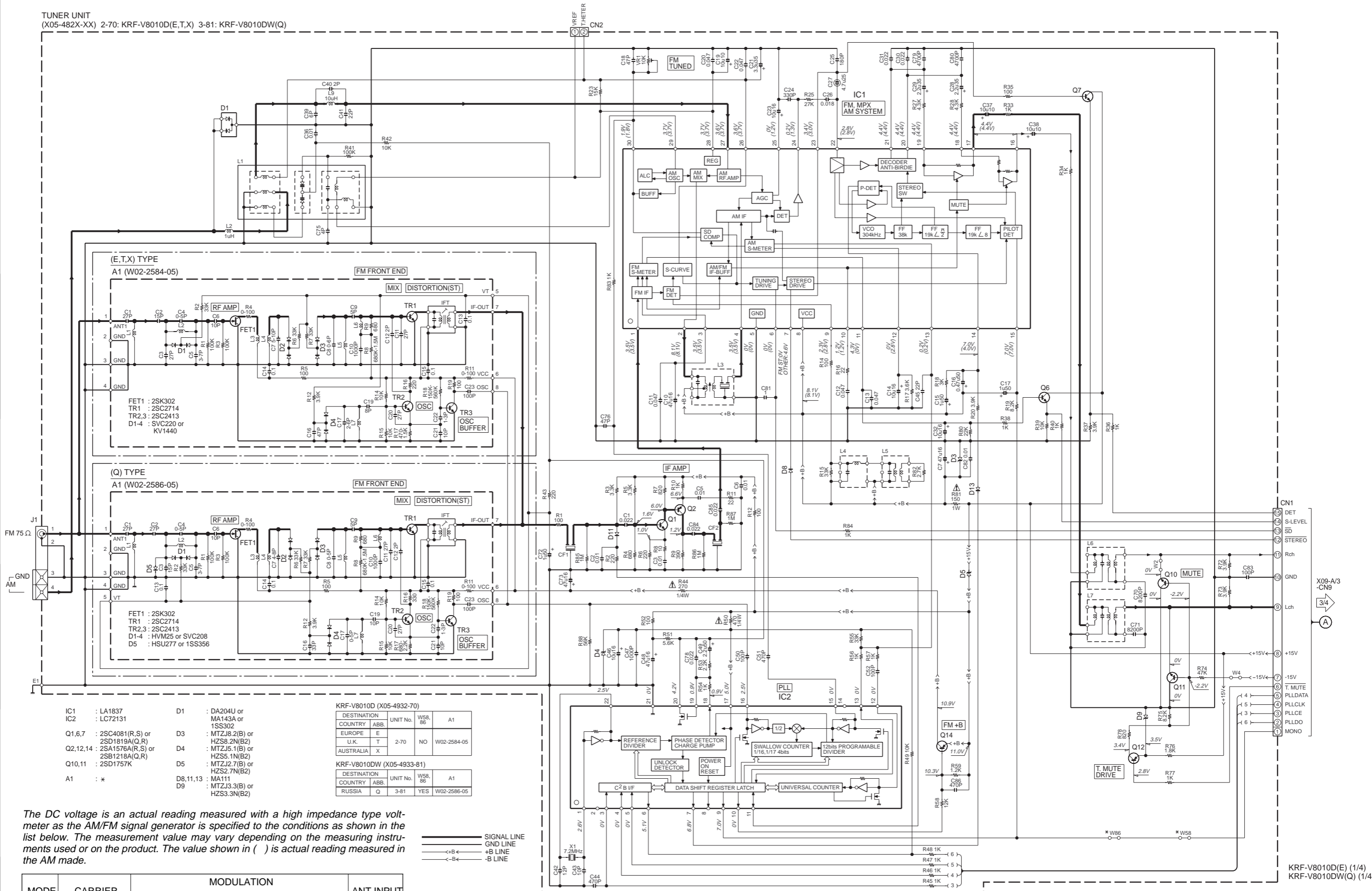


X09 B/3



X09-6092-71 A/3

TUNER UNIT
 (X05-482X-XX) 2-70: KRF-V8010D(E,T,X) 3-81: KRF-V8010DW(Q)



| | | |
|---|---------------------------------|---------------------------|
| IC1 : LA1837 | D1 : DA204U or MA143A or 1SS302 | KRF-V8010D (X05-4932-70) |
| IC2 : LC72131 | D3 : MTZJ8.2(B) or HZS8.2N(B2) | |
| Q1,6,7 : 2SC4081(R,S) or 2SD1819A(Q,R) | D4 : MTZJ5.1(B) or HZS5.1N(B2) | KRF-V8010DW (X05-4933-81) |
| Q2,12,14 : 2SA1578A(R,S) or 2SB1218A(Q,R) | D5 : MTZJ2.7(B) or HZS2.7N(B2) | |
| Q10,11 : 2SD1757K | D8,11,13 : MA111 | KRF-V8010D(E) (1/4) |
| A1 : * | D9 : MTZJ3.3(B) or HZS3.3N(B2) | |

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

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

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

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

Y05-3822-70

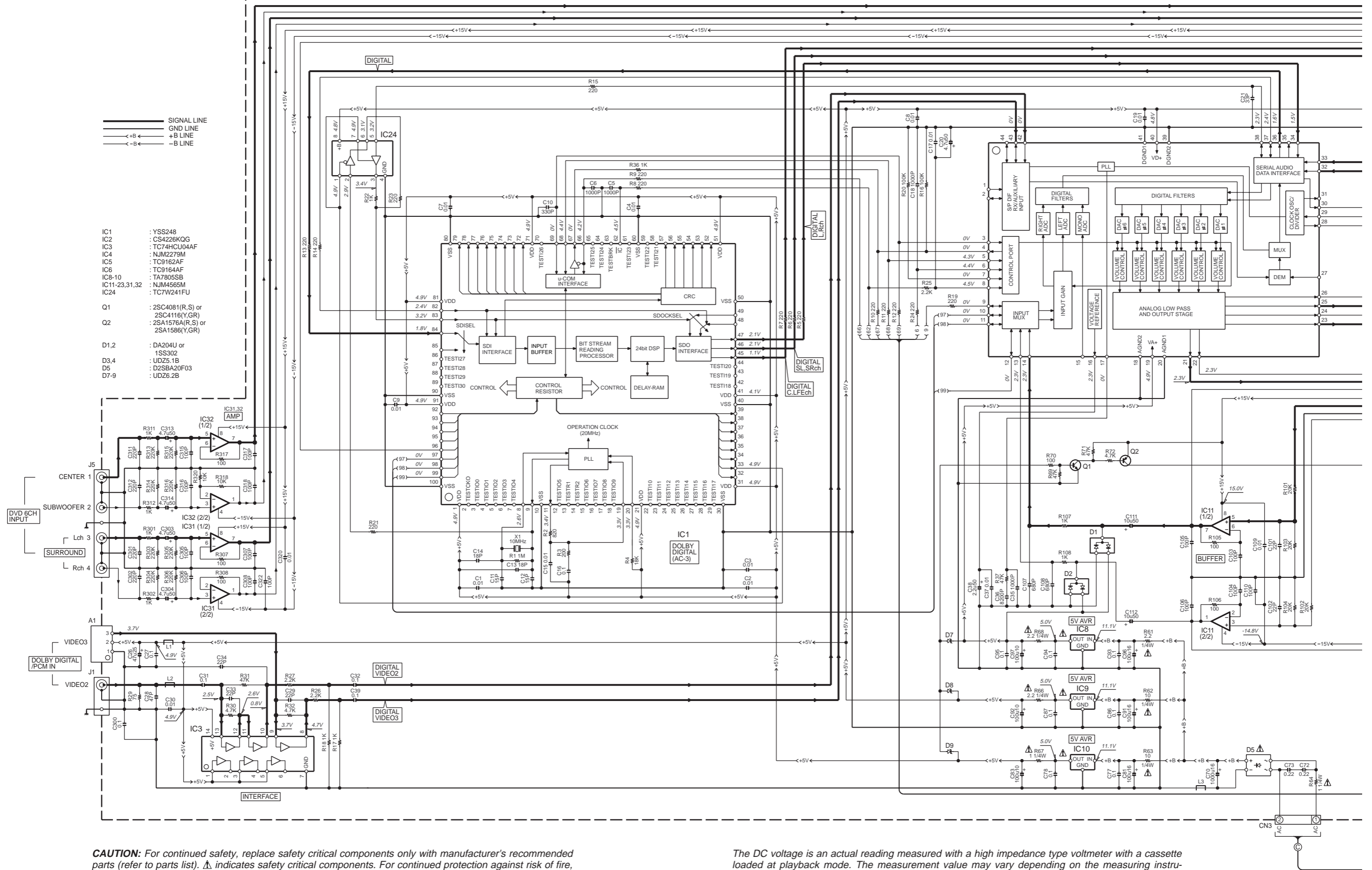
KRF-V8010D/V8010DW

KENWOOD

SURROUND UNIT
(X08-2952-70)

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

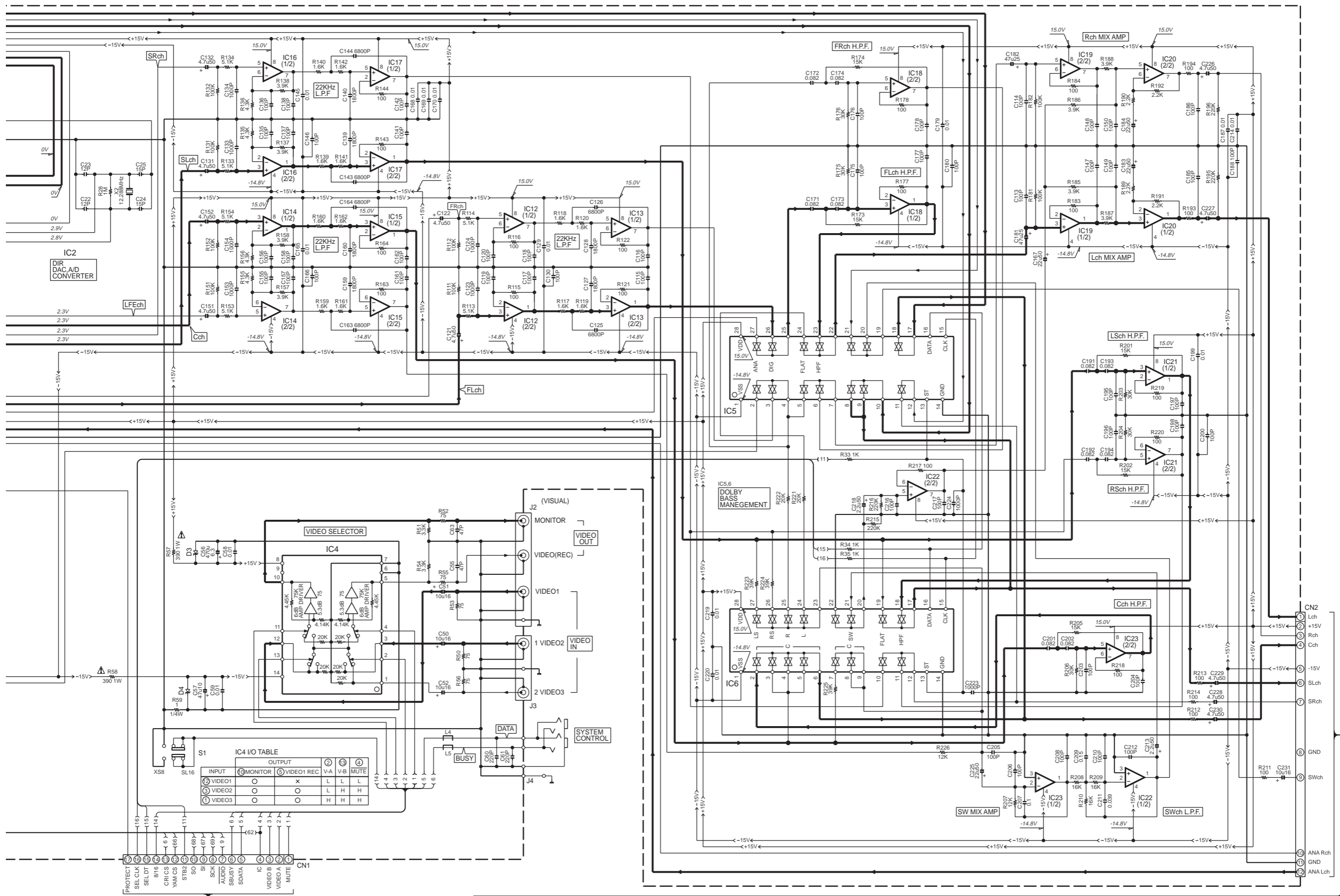
- IC1 : YSS248
- IC2 : CS4226KQG
- IC3 : TC74HCU04AF
- IC4 : NJM2279M
- IC5 : TC9162AF
- IC6 : TC9164AF
- IC8-10 : TA7805SB
- IC11-23,31,32 : NJM4565M
- IC24 : TC7W241FU
- Q1 : 2SC4081(R,S) or 2SC4116(Y,GR)
- Q2 : 2SA1576A(R,S) or 2SA1586(Y,GR)
- D1,2 : DA204U or 1SS302
- D3,4 : UDZ5.1B
- D5 : DZSBA20F03
- D7-9 : UDZ6.2B



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

The DC voltage is an actual reading measured with a high impedance type voltmeter with a cassette loaded at playback mode. The measurement value may vary depending on the measuring instruments used or on the product. Bias circuit DC voltage is measured while in the record mode.

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IC4 I/O TABLE

| INPUT | MONITOR | VIDEO1 REC | V-A | V-B | MUTE |
|--------|---------|------------|-----|-----|------|
| VIDEO1 | | X | L | L | L |
| VIDEO2 | | | L | H | H |
| VIDEO3 | | | H | H | H |

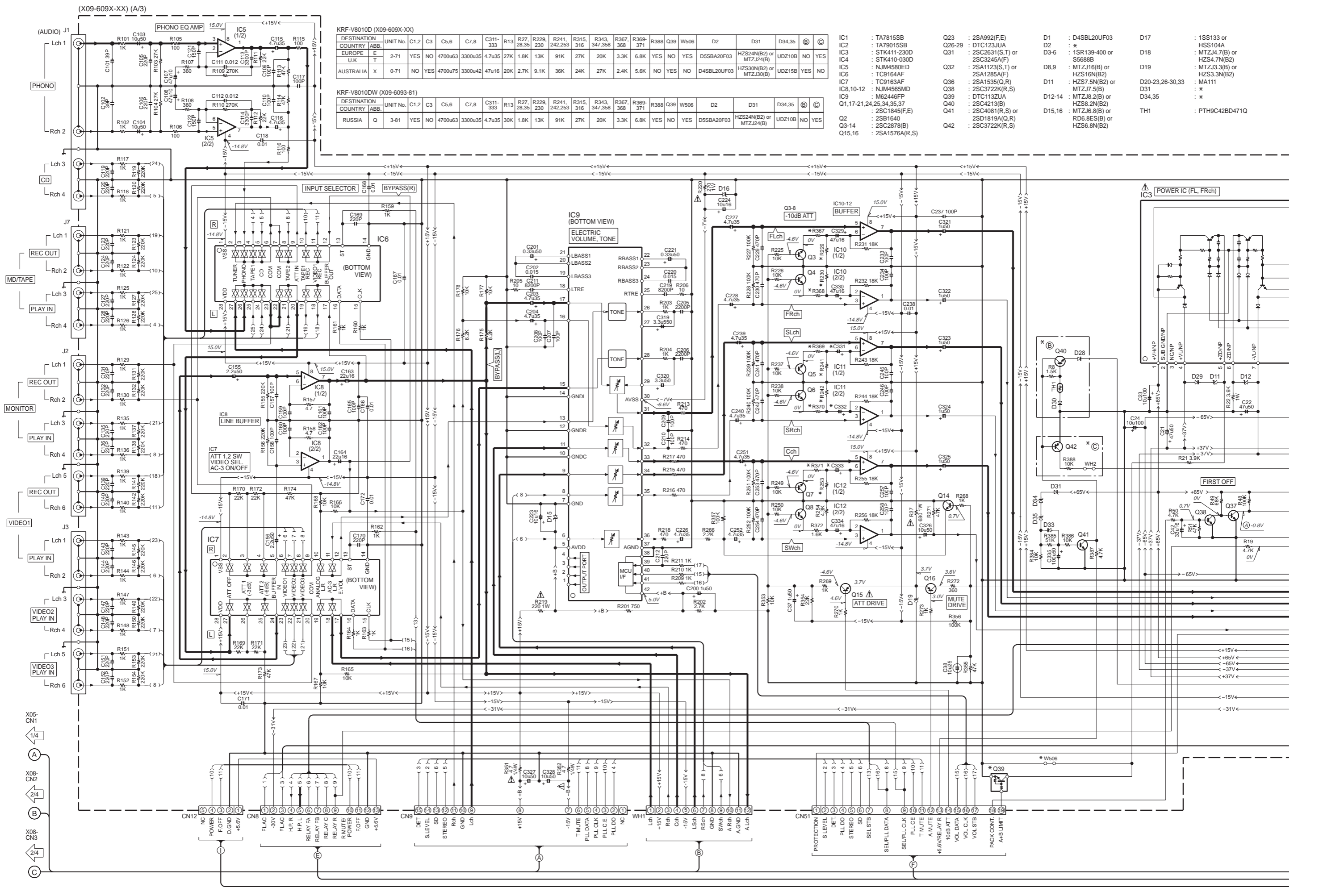
KRF-V8010D (2/4)
KRF-V8010DW (2/4)

KRF-V8010D/V8010DW

Y05-3822-70

KENWOOD

- X09-A/3 -WH1 (3/4)
- X00-TRNS (3/4)
- X09-B/3 -CN52 (4/4)
- ANA Rch (1/2)
- GND (1/2)
- ANA Lch (1/2)



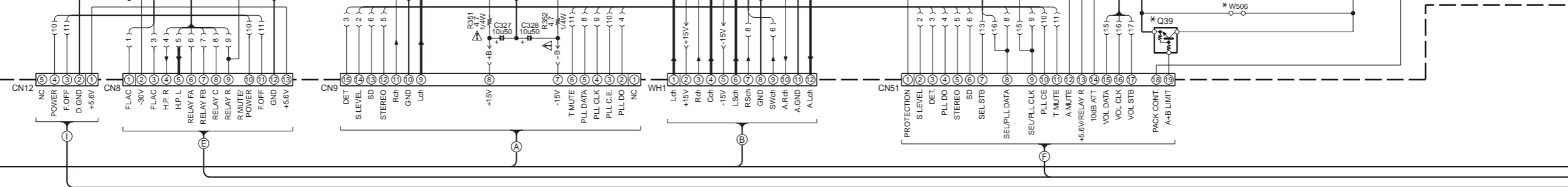
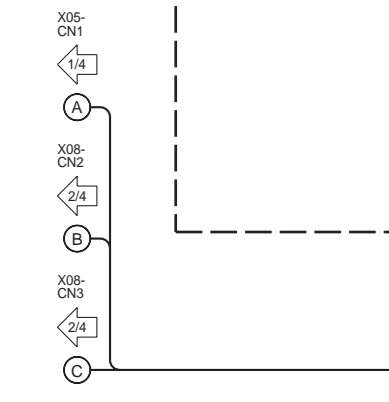
KRF-V8010D (X09-609X-XX)

| DESTINATION COUNTRY ABB. | UNIT No. | C1,2 | C3 | C5,6 | C7,8 | C311-333 | R13 | R27,28,35 | R229,230 | R241,242,253 | R315,316 | R343,347,358 | R367,368 | R369,371 | R388 | Q39 | W506 | D2 | D31 | D34,35 | Ⓟ | Ⓢ | |
|--------------------------|----------|------|-----|------|---------|----------|--------|-----------|----------|--------------|----------|--------------|----------|----------|------|-----|------|-----|-------------|-------------------------|--------|-----|-----|
| EUROPE | E | 2-71 | YES | NO | 4700u63 | 3300u35 | 4.7u35 | 27K | 1.8K | 13K | 91K | 27K | 20K | 3.3K | 6.8K | YES | NO | YES | D5SBA20F03 | HZS24N(B2) or MTZJ24(B) | UDZ10B | NO | YES |
| U.K. | T | | | | | | | | | | | | | | | | | | | | | | |
| AUSTRALIA | X | 0-71 | NO | YES | 4700u75 | 3300u42 | 47u16 | 20K | 2.7K | 9.1K | 36K | 24K | 27K | 2.4K | 5.6K | NO | YES | NO | D4SBL20UF03 | HZS30N(B2) or MTZJ30(B) | UDZ15B | YES | NO |

KRF-V8010DW (X09-6093-81)

| DESTINATION COUNTRY ABB. | UNIT No. | C1,2 | C3 | C5,6 | C7,8 | C311-333 | R13 | R27,28,35 | R229,230 | R241,242,253 | R315,316 | R343,347,358 | R367,368 | R369,371 | R388 | Q39 | W506 | D2 | D31 | D34,35 | Ⓟ | Ⓢ | |
|--------------------------|----------|------|-----|------|---------|----------|--------|-----------|----------|--------------|----------|--------------|----------|----------|------|-----|------|-----|------------|-------------------------|--------|----|-----|
| RUSSIA | Q | 3-81 | YES | NO | 4700u63 | 3300u35 | 4.7u35 | 30K | 1.8K | 13K | 91K | 27K | 20K | 3.3K | 6.8K | YES | NO | YES | D5SBA20F03 | HZS24N(B2) or MTZJ24(B) | UDZ10B | NO | YES |

| | | | |
|--|-------------------------------------|---|---------------------------------|
| IC1 : TA7815SB | Q23 : 2SA992(F,E) | D1 : D4SBL20UF03 | D17 : 1SS133 or HSS104A |
| IC2 : TA79015SB | Q26-29 : DTC123JUA | D2 : * | D18 : MTZJ4.7(B) or HZS4.7N(B2) |
| IC3 : STK411-230D | Q31 : 2SC2631(S,T) or 2SC3245A(F) | D3-6 : 1SR139-400 or S5688B | D19 : * |
| IC4 : STK410-030D | Q32 : 2SA1123(S,T) or 2SA1285A(F) | D8,9 : MTZJ16(B) or HZS16N(B2) | D20-23,26-30,33 : MA111 |
| IC5 : NJM4580ED | Q36 : 2SA1535(Q,R) | D11 : HZS7.5N(B2) or MTZJ7.5(B) | D31 : * |
| IC6 : TC9164AF | Q38 : 2SC3722K(R,S) | D12-14 : MTZJ8.2(B) or HZS8.2N(B2) | D34,35 : * |
| IC7 : TC9163AF | Q40 : 2SC4213(B) | D15,16 : MTZJ6.8(B) or RD6.8S(B) or HZS6.8N(B2) | TH1 : PTH9C42BD471Q |
| IC8,10-12 : NJM4565MD | Q41 : 2SC4081(R,S) or 2SD1819A(Q,R) | | |
| IC9 : M62446FP | Q42 : 2SC3722K(R,S) | | |
| Q1,17-21,24,25,34,35,37 : 2SC1845(F,E) | | | |
| Q2 : 2SB1640 | | | |
| Q3-14 : 2SC2878(B) | | | |
| Q15,16 : 2SA1576A(R,S) | | | |

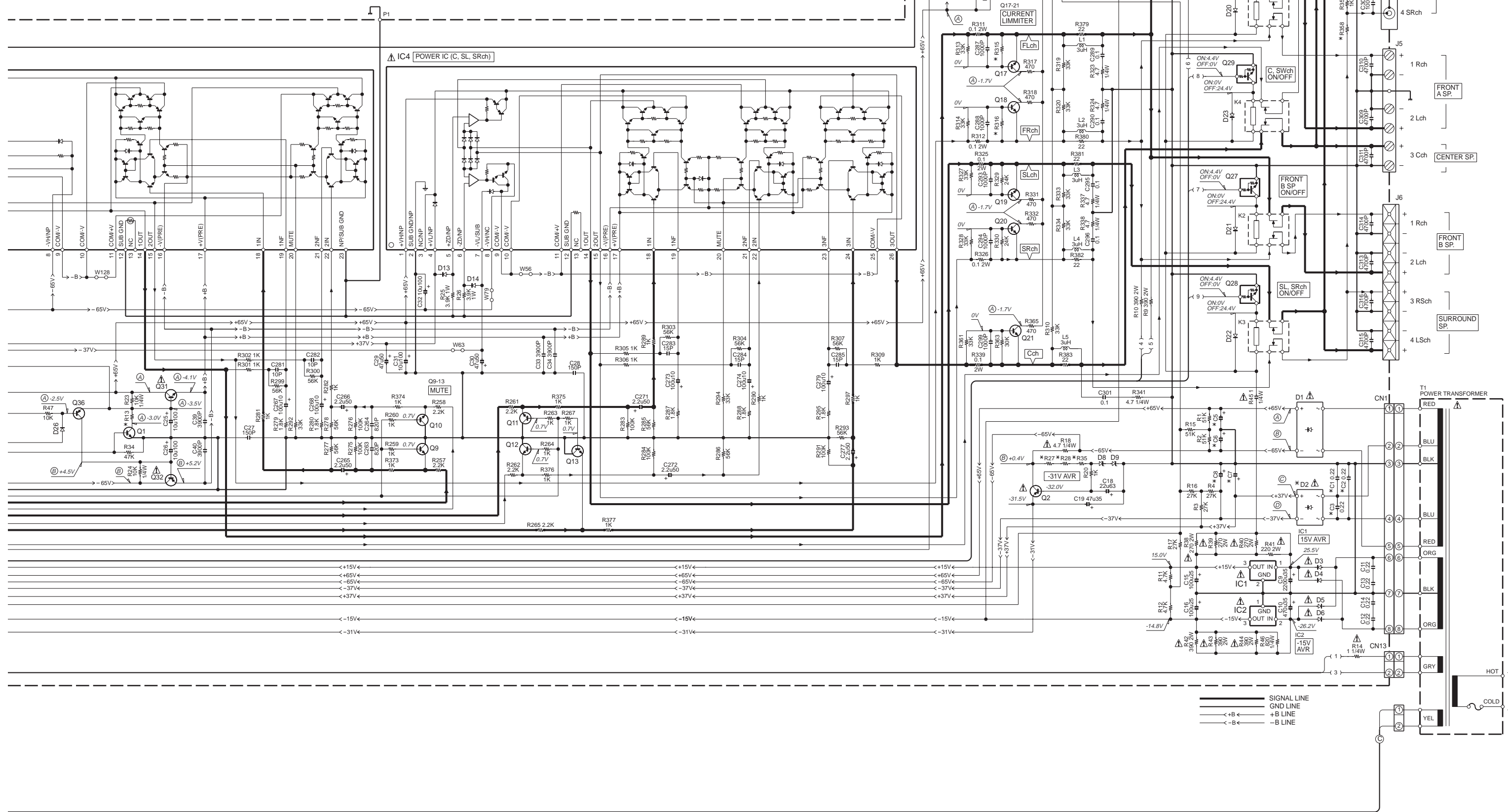


DC VOLTAGE FOR IC3 (STK411-230D)

| PIN No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9-11 | 12-15 | 16 | 17 | 18,19 | 20 | 21-23 |
|---------|-------|-------|-------|-------|--------|--------|--------|--------|------|-------|--------|-------|-------|--------|-------|
| E,T | 54.9V | 22.0V | 22.5V | 14.5V | -14.2V | -22.2V | -54.9V | -21.7V | | | -52.7V | 53.2V | | -51.5V | 0V |
| Q | 54.0V | 0V | 23.2V | 23.7V | 15.8V | -15.7V | -23.7V | -53.9V | | | -23.2V | 0V | | -50.2V | 0V |
| X | 64.0V | 64.0V | 35.5V | 27.3V | -27.4V | -35.4V | -63.9V | -34.8V | | | -61.6V | 62.1V | | -60.4V | |

DC VOLTAGE FOR IC4 (STK410-030D)

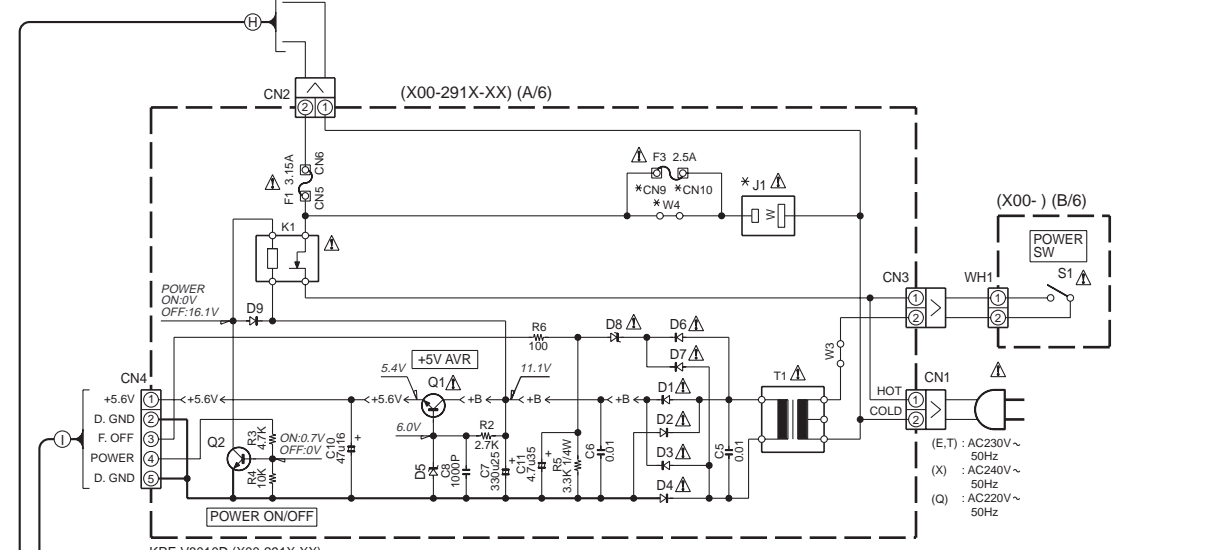
| PIN No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9-11 | 12-15 | 16 | 17 | 18,19 | 20 | 21-24 | 25 | 26 |
|---------|-------|-------|-------|-------|--------|--------|--------|--------|------|-------|--------|-------|-------|--------|--------|----|----|
| E,T | 54.9V | 21.9V | 22.5V | 14.4V | -14.5V | -22.5V | -54.9V | -22.0V | | | -52.6V | 53.2V | | -51.4V | -22.0V | | |
| Q | 54.0V | 0V | 23.2V | 23.7V | 15.8V | -15.7V | -23.7V | -53.9V | | | -23.2V | 0V | | -51.6V | 0V | | |
| X | 64.0V | 34.9V | 35.5V | 27.5V | -27.4V | -35.5V | -63.9V | -34.5V | | | -60.9V | 61.4V | | -59.7V | | | |



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

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- | | | | | |
|---------|----------|----------|----------|---------|
| 2SA1123 | 2SC2878 | 2SA1586 | 2SC4116 | 2SA1535 |
| 2SA992 | 2SC3940A | 2SB1218A | 2SD1819A | |
| 2SC1845 | | 2SC3722K | | |
| 2SC2003 | | 2SC4081 | | |
| 2SC2631 | | | | |



| KRF-V8010D (X00-291X-XX) | | UNIT No. | CN9,10 | W4 | J1 |
|--------------------------|------|----------|--------|-----|-------------|
| COUNTRY | ABB. | 2-71 | YES | NO | E03-0149-05 |
| EUROPE | E | 0-51 | | | E03-0310-05 |
| U.K. | T | 0-71 | NO | YES | E03-0325-05 |
| AUSTRALIA | X | 0-71 | | | |

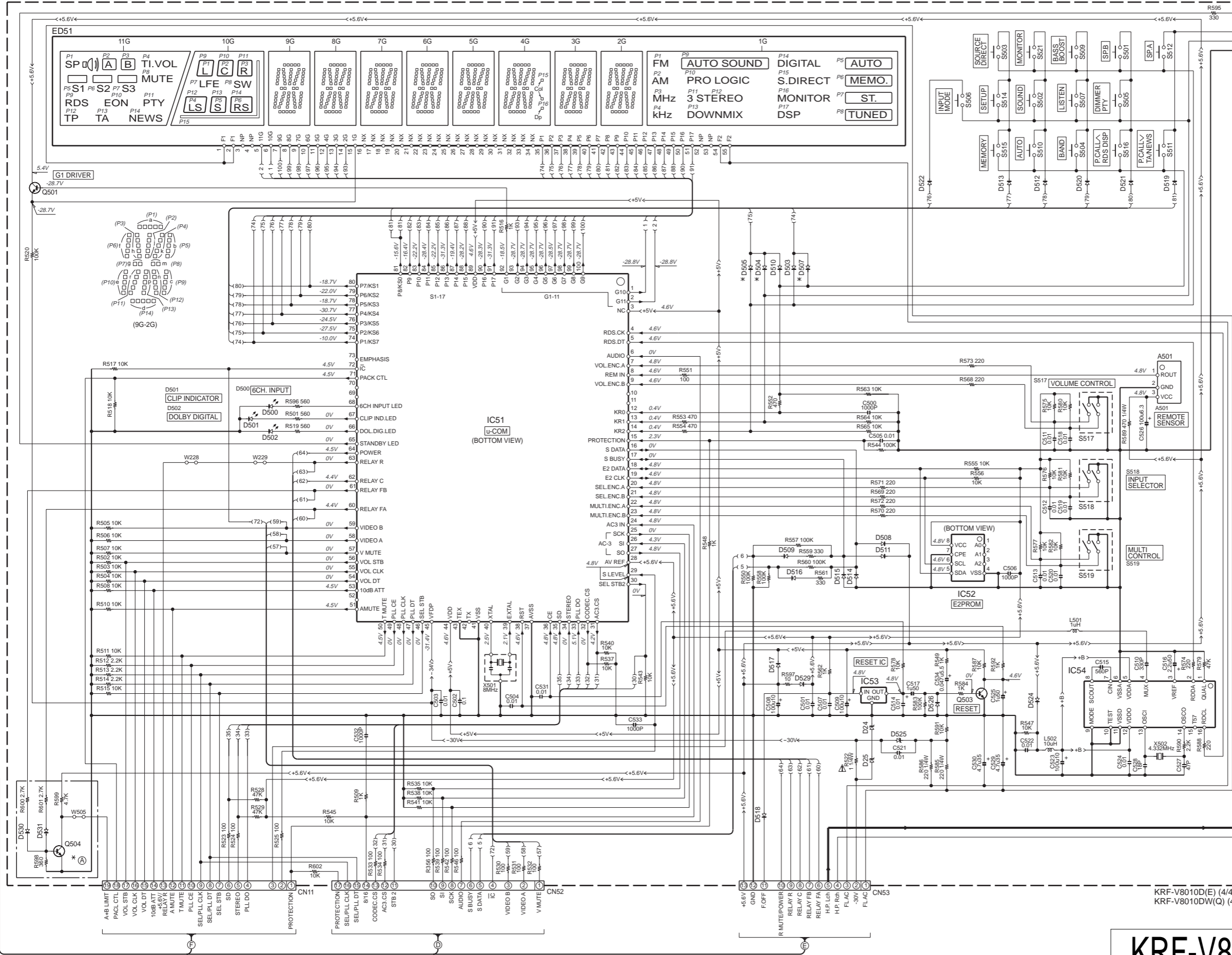
| KRF-V8010DW (X00-2912-71) | | UNIT No. | CN9,10 | W4 | J1 |
|---------------------------|------|----------|--------|----|-------------|
| COUNTRY | ABB. | 2-71 | YES | NO | E03-0149-05 |
| RUSSIA | Q | 2-71 | YES | NO | E03-0149-05 |

- | | | | | |
|-------------|------------------------------------|-----------|--------------|----------------------------------|
| DTC123JUA | NJM4565M NJM4565MD NJM4580ED | TA7805SB | DA204U | TC9162AF TC9163AF TC9164AF |
| TC74HCU04AF | NJM2279M | LC72131 | S-80740AL-A4 | X24C02S |
| YSS248 | LA1837 | TC7W241FU | SAA6579T/R | M62446FP |

KRF-V8010D(E) (3/4)
KRF-V8010D(W) (3/4)

Y05-3822-70

KRF-V8010D/V8010DW
KENWOOD



(X09-) (C/3)

| | |
|-----------------------------------|---------------------------------|
| IC51 | : CXP82852-134Q |
| IC52 | : X24C02S |
| IC53 | : S-80740AL-A4 |
| IC54 | : SAA6579TR |
| Q501,503-504 | : 2SD1819A(Q,R) or 2SC4081(R,S) |
| D24,25 | : MTZ118(B) or HZS118N(B2) |
| D500-502,527 | : B30-2513-05 |
| D503-505,507-522, 524,526,529-531 | : 1SS133 or HSS104A |
| D525 | : MTZJ6.2(B) or HZS6.2N(B2) |
| A501 | : W02-2625-05 |
| ED51 | : 11-MT-116GK |

Legend:
 — GND LINE
 — +B LINE
 — -B LINE

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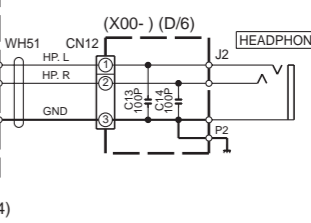
The DC voltage is an actual reading measured with a high impedance type voltmeter with a cassette loaded at playback mode. The measurement value may vary depending on the measuring instruments used or on the product. Bias circuit DC voltage is measured while in the record mode.

KRF-V8010D (X09-609X-XX)

| DESTINATION | COUNTRY | ABB. | UNIT No. | D504 | D505 |
|-------------|---------|------|----------|------|------|
| EUROPE | E | | 2-71 | NO | YES |
| U.K. | T | | | NO | YES |
| AUSTRALIA | X | | 0-71 | NO | YES |

KRF-V8010DW (X09-6093-81)

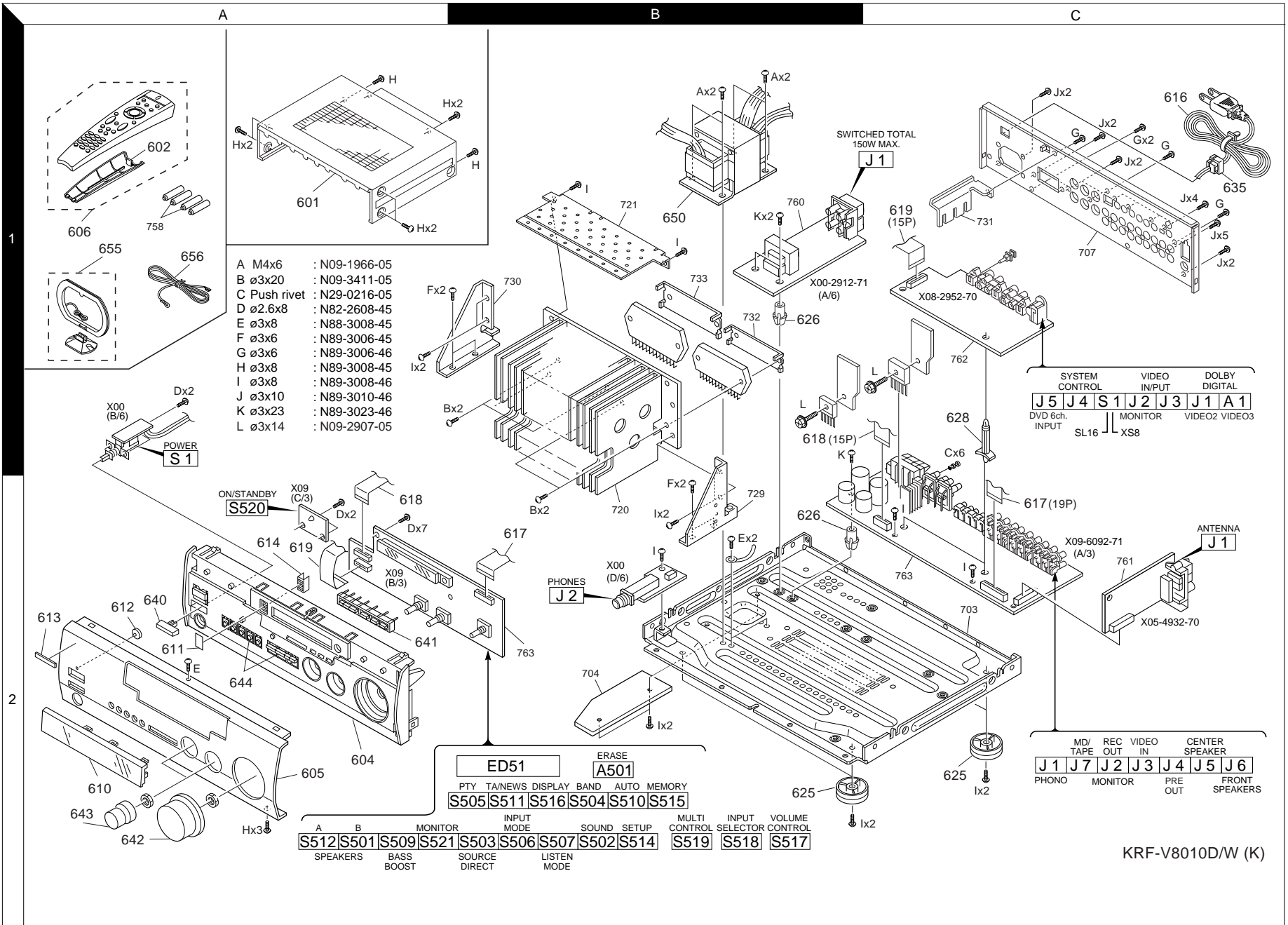
| DESTINATION | COUNTRY | ABB. | UNIT No. | D504 | D505 |
|-------------|---------|------|----------|------|------|
| RUSSIA | Q | | 3-81 | YES | NO |



KRF-V8010D/V8010DW

Y05-3822-70

KENWOOD



KRF-V8010D/W (K)

* New Parts

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

1

| Ref. No | Add-ress | New Parts | Parts No. | Description | Desti-nation | Re-marks |
|---------------------------|----------|-----------|-------------|-------------------------------|--------------|----------|
| KRF-V8010D/V8010DW | | | | | | |
| 601 | 1A | * | A01-3617-01 | METALLIC CABINET | X1 | |
| 601 | 1A | * | A01-3619-01 | METALLIC CABINET | ET1Q1 | |
| 602 | 1A | * | A09-0366-08 | BATTERY COVER | | |
| 604 | 2A | * | A22-1816-01 | SUB PANEL | ET1Q1 | |
| 605 | 2A | * | A60-1545-02 | PANEL | ET1Q1 | |
| 605 | 2A | * | A60-1561-01 | PANEL | X1 | |
| 606 | 1A | * | A70-1252-05 | REMOTE CONTROL ASSY(RC-D0507) | | |
| 610 | 2A | * | B10-3428-12 | FRONT GLASS | | |
| 611 | 2A | * | B11-0367-04 | SMOKED FILTER | | |
| 612 | 2A | * | B12-0341-04 | INDICATOR | | |
| 613 | 2A | * | B43-0302-04 | KENWOOD BADGE | | |
| 614 | 2A | * | B11-0375-04 | SMOKED FILTER | | |
| - | | | B46-0096-53 | WARRANTY CARD | X1 | |
| - | | | B46-0310-03 | WARRANTY CARD | ET1Q1 | |
| - | | | B58-0945-03 | CAUTION CARD | T1 | |
| - | | | B58-0965-13 | CAUTION CARD (PL) | T1X1 | |
| - | | | B58-0966-13 | CAUTION CARD (PL) | E | |
| - | | | B58-1526-03 | CAUTION CARD (P4,ORI,A4,1(Q)) | Q1 | |
| - | | | B60-3617-00 | INSTRUCTION MANUAL | T1Q1X1 | |
| - | | | B60-3619-00 | INSTRUCTION MANUAL | E | |
| - | | * | B60-3627-00 | INSTRUCTION MANUAL | Q1 | |
| - | | * | B60-4057-00 | INSTRUCTION MANUAL(EN) | T1Q1X1 | |
| - | | * | B60-4058-00 | INSTRUCTION MANUAL(EN,FR) | E | |
| - | | * | B60-4059-00 | INSTRUCTION MANUAL(IT,ES) | E | |
| - | | * | B60-4060-00 | INSTRUCTION MANUAL(GE) | E | |
| Δ 616 | 1C | | E30-2592-15 | AC POWER CORD | EQ1 | |
| Δ 616 | 1C | | E30-2717-05 | AC POWER CORD | X1 | |
| Δ 616 | 1C | | E30-2721-05 | AC POWER CORD | T1 | |
| 617 | 2B, 2C | | E35-2016-05 | FLAT CABLE 19P | | |
| 618 | 2A, 1B | | E35-2017-05 | FLAT CABLE 15P | | |
| 619 | 2A, 1C | | E35-2018-05 | FLAT CABLE 15P | | |
| Δ F1 | | | F05-3121-05 | FUSE (SEMKO) (250V T3.15AL) | EQ1 | |
| Δ F3 | | | F05-2525-05 | FUSE (SEMKO) (250V T2.5AL) | EQ1 | |
| - | | | H10-7492-02 | POLYSTYRENE FOAMED FIXTURE | | |
| - | | | H10-7493-02 | POLYSTYRENE FOAMED FIXTURE | | |
| - | | | H25-0232-04 | PROTECTION BAG (235X350X0.03) | EQ1X1 | |
| - | | | H25-0391-04 | PROTECTION BAG | | |
| - | | | H25-0651-04 | PROTECTION BAG | T1 | |
| - | | * | H50-3084-04 | ITEM CARTON CASE | ET1X1 | |
| - | | * | H50-3148-04 | ITEM CARTON CASE | Q1 | |
| 625 | 2B, 2C | | J02-1168-03 | FOOT | | |
| 626 | 1B, 2B | | J19-3752-14 | UNIT HOLDER | | |
| 628 | 1C | | J19-5919-05 | UNIT HOLDER | | |
| Δ 635 | 1C | | J42-0083-05 | POWER CORD BUSHING | | |
| - | | | J61-0307-05 | WIRE BAND | | |
| 640 | 2A | | K27-2275-04 | KNOB (BUTTON) | | |
| 641 | 2A | | K29-7311-03 | KNOB | | |
| 642 | 2A | | K29-7312-04 | KNOB | | |
| 643 | 2A | | K29-7313-04 | KNOB | | |
| 644 | 2A | * | K29-7371-02 | KNOB | X1 | |

L: Scandinavia K: USA P: Canada R: Mexico C: China I: Malaysia
Y: PX(Far East, Hawaii) T: Europe E: Europe G: Germany V: China(Shanghai)
Y: AAFES(Europe) X: Australia Q: Russia H: Korea M: Other Areas Δ indicates safety critical components.

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2

| Ref. No | Add-ress | New Parts | Parts No. | Description | Desti-nation | Re-marks |
|-----------------------------------|----------|-----------|---------------|---------------------|--------------|----------|
| Δ 650 | 1B | * | L07-2584-05 | POWER TRANSFORMER | ET1 | |
| Δ 650 | 1B | * | L07-2585-05 | POWER TRANSFORMER | Q1 | |
| Δ 650 | 1B | * | L07-2586-05 | POWER TRANSFORMER | X1 | |
| 655 | 1A | | T90-0833-05 | LOOP ANTENNA | | |
| 656 | 1A | | T90-0836-05 | LEAD WIRE ANTENNA | | |
| POWER SUPPLY (X00-2912-71) | | | | | | |
| C5, 6 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C7 | | | CE04DW1E331M | ELECTRO 330UF 25WV | | |
| C8 | | | CK45FB1H102K | CERAMIC 1000PF K | | |
| C10 | | | CE04KW1C470M | ELECTRO 47UF 16WV | | |
| C11 | | | CE04KW1V4R7M | ELECTRO 4.7UF 35WV | | |
| C13, 14 | | | CC45FSL1H101J | CERAMIC 100PF J | | |
| CN1-3 | | | E40-4245-05 | PIN ASSY | | |
| CN4 | | | E40-8197-05 | SOCKET FOR PIN ASSY | | |
| CN12 | | | E40-3247-05 | PIN ASSY | | |
| Δ J1 | 1C | | E03-0149-05 | AC OUTLET | EQ1 | |
| Δ J1 | 1C | | E03-0310-05 | AC OUTLET | T1 | |
| Δ J1 | 1C | | E03-0325-05 | AC OUTLET | X1 | |
| J2 | 2B | | E11-0127-05 | PHONE JACK (3P) | | |
| CN5, 6 | | | J13-0075-05 | FUSE CLIP | | |
| CN9, 10 | | | J13-0075-05 | FUSE CLIP | EQ1 | |
| E1 | | | J11-0808-05 | WIRE CLAMPER | | |
| Δ T1 | | | L07-2569-05 | POWER TRANSFORMER | | |
| Δ K1 | | | S76-0070-05 | MAGNETIC RELAY | | |
| Δ S1 | 1A | | S68-0100-05 | PUSH SWITCH,POWER | | |
| Δ D1-4 | | | S5688B | DIODE | | |
| Δ D1-4 | | | 1SR139-400 | DIODE | | |
| Δ D5 | | | HZS6.2N(B2) | ZENER DIODE | | |
| Δ D5 | | | MTZJ6.2(B) | ZENER DIODE | | |
| Δ D6, 7 | | | HSS104A | DIODE | | |
| Δ D6, 7 | | | 1SS133 | DIODE | | |
| Δ D8 | | | HZS2.7N(B2) | ZENER DIODE | | |
| Δ D8 | | | MTZJ2.7(B) | ZENER DIODE | | |
| Δ D9 | | | HSS104A | DIODE | | |
| Δ D9 | | | 1SS133 | DIODE | | |
| Δ Q1 | | | 2SC3940A(R,S) | TRANSISTOR | | |
| Δ Q2 | | | 2SC2003(L,K) | TRANSISTOR | | |
| TUNER (X05-4932-70) | | | | | | |
| C1 | | | CK73FB1H223K | CHIP C 0.022UF K | | |
| C2, 3 | | | CK73FB1H103K | CHIP C 0.010UF K | | |
| C5, 6 | | | CK73FB1H103K | CHIP C 0.010UF K | | |
| C7 | | | CE04LW1C470M | ELECTRO 47UF 16WV | | |
| C10 | | | CE04LW1C470M | ELECTRO 47UF 16WV | | |
| C11-13 | | | CK73FB1H473K | CHIP C 0.047UF K | | |
| C14 | | | CE04LW1C100M | ELECTRO 10UF 16WV | | |
| C15 | | | CE04LW1H010M | ELECTRO 1.0UF 50WV | | |
| C16 | | | C90-3251-05 | ELECTRO 0.47UF 50WV | | |
| C17 | | | C90-3253-05 | ELECTRO 1.0UF 50WV | | |
| C18 | | | CC73FCH1H470J | CHIP C 47PF J | | |
| C19 | | | C90-3217-05 | ELECTRO 10UF 10WV | | |
| C20 | | | CK73FB1H473K | CHIP C 0.047UF K | | |

L: Scandinavia K: USA P: Canada R: Mexico C: China I: Malaysia
Y: PX(Far East, Hawaii) T: Europe E: Europe G: Germany V: China(Shanghai)
Y: AAFES(Europe) X: Australia Q: Russia H: Korea M: Other Areas Δ indicates safety critical components.

PARTS LIST

KRF-V8010D/V8010DW

* New Parts

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Teile ohne **Parts No.** werden nicht geliefert.

3

| Ref. No | Add-ress | New Parts | Parts No. | Description | Desti-nation | Re-marks |
|---------|----------|-----------|---------------|------------------------------|--------------|----------|
| C21 | | | C90-3241-05 | ELECTRO 3.3UF 35WV | | |
| C22 | | | CK73FB1H473K | CHIP C 0.047UF K | | |
| C23 | | | CE04LW1C100M | ELECTRO 10UF 16WV | | |
| C24 | | | CK73FB1H331K | CHIP C 330PF K | | |
| C25 | | | CC73FCH1H181J | CHIP C 180PF J | | |
| C26 | | | CK73FB1H183K | CHIP C 0.018UF K | | |
| C27 | | | CE04HW1E4R7M | NP-ELEC 4.7UF 25WV | | |
| C28, 29 | | | C90-3240-05 | ELECTRO 2.2UF 35WV | | |
| C30, 31 | | | CK73FB1H223K | CHIP C 0.022UF K | | |
| C32 | | | CE04LW1C100M | ELECTRO 10UF 16WV | | |
| C36 | | | CK73FB1H103K | CHIP C 0.010UF K | | |
| C37, 38 | | | C90-3217-05 | ELECTRO 10UF 10WV | | |
| C39 | | | CC73FCH1H060D | CHIP C 6.0PF D | | |
| C40 | | | CC73FCH1H020C | CHIP C 2.0PF C | | |
| C41 | | | CC73FCH1H220J | CHIP C 22PF J | | |
| C42 | | | CC73FCH1H120J | CHIP C 12PF J | | |
| C43 | | | CC73FCH1H100D | CHIP C 10PF D | | |
| C44 | | | CK73FB1H471K | CHIP C 470PF K | | |
| C45 | | | CC73FCH1H220J | CHIP C 22PF J | | |
| C46 | | | CE04LW1C100M | ELECTRO 10UF 16WV | | |
| C47 | | | CK73FB1H102K | CHIP C 1000PF K | | |
| C48 | | | CE04LW1C470M | ELECTRO 47UF 16WV | | |
| C49 | | | CE04LW1H2R2M | ELECTRO 2.2UF 50WV | | |
| C50 | | | CC73FSL1H101J | CHIP C 100PF J | | |
| C51 | | | CK73FB1H471K | CHIP C 470PF K | | |
| C52 | | | CC73FSL1H101J | CHIP C 100PF J | | |
| C70, 71 | | | CK73FB1H822K | CHIP C 8200PF K | | |
| C72 | | | CE04LW1H010M | ELECTRO 1.0UF 50WV | | |
| C73 | | | CE04LW1C470M | ELECTRO 47UF 16WV | | |
| C75 | | | CC73FCH1H040C | CHIP C 4.0PF C | | |
| C76 | | | CC73FCH1H470J | CHIP C 47PF J | | |
| C78 | | | CK73FB1H223K | CHIP C 0.022UF K | | |
| C79, 80 | | | CK73FB1H472K | CHIP C 4700PF K | | |
| C81 | | | CK73FF1C105Z | CHIP C 1.0UF Z | | |
| C82 | | | CK73FB1H103K | CHIP C 0.010UF K | | |
| C83 | | | CC73FSL1H101J | CHIP C 100PF J | | |
| C84, 85 | | | CK73FB1H223K | CHIP C 0.022UF K | | |
| C86 | | | CK73FB1H471K | CHIP C 470PF K | | |
| CN1 | | | E40-9831-05 | SOCKET FOR PIN ASSY | | |
| CN2 | | | E40-4871-05 | PIN ASSY | | |
| J1 | 2C | | E20-0321-05 | LOCK TERMINAL BOARD(2P,F) | | |
| J1 | 2C | | E70-0052-05 | LOCK TERMINAL BOARD | | |
| CF1, 2 | | | L72-0536-05 | CERAMIC FILTER | | |
| L1 | | | L39-1366-05 | COMBINATION COIL | | |
| L2 | | | L40-1091-17 | SMALL FIXED INDUCTOR(1UH) | | |
| L3 | | | L30-0911-05 | AM IFT | | |
| L4 | | | L30-0950-05 | FM IFT | | |
| L5 | | | L30-0951-05 | FM IFT | | |
| L6, 7 | | | L79-1239-05 | LC FILTER | | |
| L9 | | | L40-1001-17 | SMALL FIXED INDUCTOR(10UH,K) | | |
| X1 | | | L77-2232-05 | CRYSTAL RESONATOR | | |
| R1 | | | RK73FB2A101J | CHIP R 100 J 1/10W | | |
| R3 | | | RK73FB2A332J | CHIP R 3.3K J 1/10W | | |
| R4 | | | RK73FB2A681J | CHIP R 680 J 1/10W | | |

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|---------|----------|-----------|--------------|------------------------------|--------------|----------|
| R5 | | | RK73FB2A332J | CHIP R 3.3K J 1/10W | | |
| R6 | | | RK73FB2A221J | CHIP R 220 J 1/10W | | |
| R7 | | | RK73FB2A821J | CHIP R 820 J 1/10W | | |
| R8 | | | RK73FB2A100J | CHIP R 10 J 1/10W | | |
| R9 | | | RK73FB2A391J | CHIP R 390 J 1/10W | | |
| R10 | | | RK73FB2A102J | CHIP R 1.0K J 1/10W | | |
| R11 | | | RK73FB2A220J | CHIP R 22 J 1/10W | | |
| R12 | | | RK73FB2A101J | CHIP R 100 J 1/10W | | |
| R14 | | | RK73FB2A101J | CHIP R 100 J 1/10W | | |
| R15 | | | RK73FB2A333J | CHIP R 33K J 1/10W | | |
| R16 | | | RK73FB2A220J | CHIP R 22 J 1/10W | | |
| R17 | | | RK73FB2A362J | CHIP R 3.6K J 1/10W | | |
| R18 | | | RK73FB2A302J | CHIP R 3.0K J 1/10W | | |
| R19 | | | RK73FB2A822J | CHIP R 8.2K J 1/10W | | |
| R20 | | | RK73FB2A392J | CHIP R 3.9K J 1/10W | | |
| R23 | | | RK73FB2A153J | CHIP R 15K J 1/10W | | |
| R25 | | | RK73FB2A273J | CHIP R 27K J 1/10W | | |
| R27, 28 | | | RK73FB2A432J | CHIP R 4.3K J 1/10W | | |
| R33, 34 | | | RK73FB2A102J | CHIP R 1.0K J 1/10W | | |
| R35 | | | RK73FB2A101J | CHIP R 100 J 1/10W | | |
| R36 | | | RK73FB2A102J | CHIP R 1.0K J 1/10W | | |
| R37 | | | RK73FB2A392J | CHIP R 3.9K J 1/10W | | |
| R38 | | | RK73FB2A102J | CHIP R 1.0K J 1/10W | | |
| R39 | | | RK73FB2A103J | CHIP R 10K J 1/10W | | |
| R42 | | | RK73FB2A103J | CHIP R 10K J 1/10W | | |
| R43 | | | RK73FB2A221J | CHIP R 220 J 1/10W | | |
| R44 | | | RD14NB2E271J | RD 270 J 1/4W | | |
| R45 | | | RK73EB2B102J | CHIP R 1.0K J 1/8W | | |
| R46 | | | RK73FB2A102J | CHIP R 1.0K J 1/10W | | |
| R47 | | | RK73EB2B102J | CHIP R 1.0K J 1/8W | | |
| R48 | | | RK73FB2A102J | CHIP R 1.0K J 1/10W | | |
| R49 | | | RK73FB2A103J | CHIP R 10K J 1/10W | | |
| R50 | | | RD14NB2E471J | RD 470 J 1/4W | | |
| R51 | | | RK73FB2A562J | CHIP R 5.6K J 1/10W | | |
| R52 | | | RK73FB2A101J | CHIP R 100 J 1/10W | | |
| R53 | | | RK73FB2A222J | CHIP R 2.2K J 1/10W | | |
| R54 | | | RK73FB2A102J | CHIP R 1.0K J 1/10W | | |
| R55 | | | RK73FB2A333J | CHIP R 33K J 1/10W | | |
| R56, 57 | | | RK73FB2A102J | CHIP R 1.0K J 1/10W | | |
| R58 | | | RK73FB2A123J | CHIP R 12K J 1/10W | | |
| R59 | | | RK73FB2A122J | CHIP R 1.2K J 1/10W | | |
| R72, 73 | | | RK73FB2A392J | CHIP R 3.9K J 1/10W | | |
| R74 | | | RK73FB2A473J | CHIP R 47K J 1/10W | | |
| R75 | | | RK73FB2A822J | CHIP R 8.2K J 1/10W | | |
| R76 | | | RK73FB2A182J | CHIP R 1.8K J 1/10W | | |
| R78 | | | RK73FB2A821J | CHIP R 820 J 1/10W | | |
| R80 | | | RK73FB2A223J | CHIP R 22K J 1/10W | | |
| R81 | | | RS14KB3A151J | FL-PROOF RS 150 J 1W | | |
| R82 | | | RK73FB2A272J | CHIP R 2.7K J 1/10W | | |
| R83 | | | RK73FB2A102J | CHIP R 1.0K J 1/10W | | |
| R84 | | | RK73EB2B102J | CHIP R 1.0K J 1/8W | | |
| R85-87 | | | RK73FB2A105J | CHIP R 1.0M J 1/10W | | |
| R88 | | | RK73FB2A563J | CHIP R 56K J 1/10W | | |
| VR1 | | | R32-0037-05 | SEMI FIXED VARIABLE RESISTOR | | |
| W51, 52 | | | R92-0670-05 | CHIP R 0 OHM | | |

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|-------------------------------|----------|-----------|---------------|--------------------|--------------|----------|
| W54, 55 | | | R92-0670-05 | CHIP R 0 OHM | | |
| W57 | | | R92-0670-05 | CHIP R 0 OHM | ET1X1 | |
| W57-60 | | | R92-0670-05 | CHIP R 0 OHM | | |
| W59, 60 | | | R92-0670-05 | CHIP R 0 OHM | ET1X1 | |
| W80 | | | R92-0679-05 | CHIP R 0 OHM | | |
| W84-86 | | | R92-0679-05 | CHIP R 0 OHM | | |
| W84, 85 | | | R92-0679-05 | CHIP R 0 OHM | Q1 ET1X1 | |
| D1 | | | DA204U | DIODE | | |
| D1 | | | MA143A | DIODE | | |
| D1 | | | 1SS302 | DIODE | | |
| D3 | | | HZS8.2N(B2) | ZENER DIODE | | |
| D3 | | | MTZJ8.2(B) | ZENER DIODE | | |
| D4 | | | HZS5.1N(B2) | ZENER DIODE | | |
| D4 | | | MTZJ5.1(B) | ZENER DIODE | | |
| D5 | | | HZS2.7N(B2) | ZENER DIODE | | |
| D5 | | | MTZJ2.7(B) | ZENER DIODE | | |
| D8 | | | MA111 | DIODE | | |
| D9 | | | HZS3.3N(B2) | ZENER DIODE | | |
| D9 | | | MTZJ3.3(B) | ZENER DIODE | | |
| D11 | | | MA111 | DIODE | | |
| D13 | | | MA111 | DIODE | | |
| IC1 | | | LA1837 | ANALOGUE IC | | |
| IC2 | | | LC72131 | MOS-IC | | |
| Q1 | | | 2SC4081(R,S) | TRANSISTOR | | |
| Q1 | | | 2SD1819A(Q,R) | TRANSISTOR | | |
| Q2 | | | 2SA1576A(R,S) | TRANSISTOR | | |
| Q2 | | | 2SB1218A(Q,R) | TRANSISTOR | | |
| Q6, 7 | | | 2SC4081(R,S) | TRANSISTOR | | |
| Q6, 7 | | | 2SD1819A(Q,R) | TRANSISTOR | | |
| Q10, 11 | | | 2SD1757K | TRANSISTOR | | |
| Q12 | | | 2SA1576A(R,S) | TRANSISTOR | | |
| Q12 | | | 2SB1218A(Q,R) | TRANSISTOR | | |
| Q14 | | | 2SA1576A(R,S) | TRANSISTOR | | |
| Q14 | | | 2SB1218A(Q,R) | TRANSISTOR | | |
| A1 | | | W02-2584-05 | FM FRONT-END ASSY | ET1X1 | |
| A1 | | | W02-2586-05 | FM FRONT-END ASSY | Q1 | |
| SURROUND (X08-2952-70) | | | | | | |
| C1-4 | | | CK73FB1H103K | CHIP C 0.010UF K | | |
| C5, 6 | | | CC73FSL1H102J | CHIP C 1000PF J | | |
| C7-9 | | | CK73FB1H103K | CHIP C 0.010UF K | | |
| C10 | | | CC73FSL1H331J | CHIP C 330PF J | | |
| C11, 12 | | | CC73FCH1H150J | CHIP C 15PF J | | |
| C13, 14 | | | CC73FCH1H180J | CHIP C 18PF J | | |
| C15 | | | CK73FB1H103K | CHIP C 0.010UF K | | |
| C16 | | | CK73FB1E104K | CHIP C 0.10UF K | | |
| C17 | | | CK73FB1H103K | CHIP C 0.010UF K | | |
| C18 | | | CC73FSL1H102J | CHIP C 1000PF J | | |
| C19 | | | CK73FB1H103K | CHIP C 0.010UF K | | |
| C20 | | | CE04KW1H4R7M | ELECTRO 4.7UF 50WV | | |
| C21 | | | CC73FCH1H330J | CHIP C 33PF J | | |
| C22, 23 | | | CC73FCH1H120J | CHIP C 12PF J | | |
| C24, 25 | | | CC73FCH1H150J | CHIP C 15PF J | | |
| C26 | | | CE04KW1E470M | ELECTRO 47UF 25WV | | |

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| Ref. No | Add-ress | New Parts | Parts No. | Description | Desti-nation | Re-marks |
|-----------|----------|-----------|---------------|---------------------|--------------|----------|
| C27 | | | CK73FB1E104K | CHIP C 0.10UF K | | |
| C28 | | | CC73FSL1H470J | CHIP C 47PF J | | |
| C29 | | | CC73FCH1H220J | CHIP C 22PF J | | |
| C30 | | | CK73FB1H103K | CHIP C 0.010UF K | | |
| C31, 32 | | | CK73FB1E104K | CHIP C 0.10UF K | | |
| C33, 34 | | | CC73FCH1H220J | CHIP C 22PF J | | |
| C35 | | | CC73FSL1H102J | CHIP C 1000PF J | | |
| C36 | | | CK73FB1H822K | CHIP C 8200PF K | | |
| C37 | | | CK73FB1H103K | CHIP C 0.010UF K | | |
| C38 | | | CE04KW1H2R2M | ELECTRO 2.2UF 50WV | | |
| C39 | | | CK73FB1E104K | CHIP C 0.10UF K | | |
| C50-52 | | | CE04KW1C100M | ELECTRO 10UF 16WV | | |
| C55 | | | CC73FSL1H470J | CHIP C 47PF J | | |
| C56 | | | CE04KW0J471M | ELECTRO 470UF 6.3WV | | |
| C57 | | | CE04KW1A470M | ELECTRO 47UF 10WV | | |
| C58, 59 | | | CK73FB1H103K | CHIP C 0.010UF K | | |
| C60, 61 | | | CC73FSL1H221J | CHIP C 220PF J | | |
| C63 | | | CC73FSL1H470J | CHIP C 47PF J | | |
| C70 | | | CE04KW1C102M | ELECTRO 1000UF 16WV | | |
| C72, 73 | | | CK73FF1C224Z | CHIP C 0.22UF Z | | |
| C77, 78 | | | CK73FB1E104K | CHIP C 0.10UF K | | |
| C81 | | | CE04KW1C101M | ELECTRO 100UF 16WV | | |
| C83 | | | CE04KW1A101M | ELECTRO 100UF 10WV | | |
| C86, 87 | | | CK73FB1E104K | CHIP C 0.10UF K | | |
| C91 | | | CE04KW1C101M | ELECTRO 100UF 16WV | | |
| C92 | | | CE04KW1A101M | ELECTRO 100UF 10WV | | |
| C93-95 | | | CK73FB1E104K | CHIP C 0.10UF K | | |
| C96 | | | CE04KW1C101M | ELECTRO 100UF 16WV | | |
| C97 | | | CE04KW1A101M | ELECTRO 100UF 10WV | | |
| C101, 102 | | | CC73FCH1H220J | CHIP C 22PF J | | |
| C103-106 | | | CC73FSL1H101J | CHIP C 100PF J | | |
| C107, 108 | | | CC73FSL1H681J | CHIP C 680PF J | | |
| C109 | | | CK73FB1H103K | CHIP C 0.010UF K | | |
| C110 | | | CC73FSL1H101J | CHIP C 100PF J | | |
| C111, 112 | | | CE04KW1H100M | ELECTRO 10UF 50WV | | |
| C113-120 | | | CC73FSL1H101J | CHIP C 100PF J | | |
| C121, 122 | | | CE04KW1H4R7M | ELECTRO 4.7UF 50WV | | |
| C123, 124 | | | CC73FSL1H102J | CHIP C 1000PF J | | |
| C125, 126 | | | CK73FB1H682K | CHIP C 6800PF K | | |
| C127, 128 | | | CK73FB1H182K | CHIP C 1800PF K | | |
| C129 | | | CK73FB1H103K | CHIP C 0.010UF K | | |
| C130 | | | CC73FSL1H101J | CHIP C 100PF J | | |
| C131, 132 | | | CE04KW1H4R7M | ELECTRO 4.7UF 50WV | | |
| C133, 134 | | | CC73FSL1H102J | CHIP C 1000PF J | | |
| C135-138 | | | CC73FSL1H101J | CHIP C 100PF J | | |
| C139, 140 | | | CK73FB1H182K | CHIP C 1800PF K | | |
| C141, 142 | | | CC73FSL1H101J | CHIP C 100PF J | | |
| C143, 144 | | | CK73FB1H682K | CHIP C 6800PF K | | |
| C145 | | | CK73FB1H103K | CHIP C 0.010UF K | | |
| C146-150 | | | CC73FSL1H101J | CHIP C 100PF J | | |
| C151, 152 | | | CE04KW1H4R7M | ELECTRO 4.7UF 50WV | | |
| C153, 154 | | | CC73FSL1H102J | CHIP C 1000PF J | | |
| C155-158 | | | CC73FSL1H101J | CHIP C 100PF J | | |
| C159, 160 | | | CK73FB1H182K | CHIP C 1800PF K | | |
| C161, 162 | | | CC73FSL1H101J | CHIP C 100PF J | | |

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PARTS LIST

KRF-V8010D/V8010DW

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|-----------|----------|-----------|---------------|--------------------------|--------------|----------|
| C163, 164 | | | CK73FB1H682K | CHIP C 6800PF K | | |
| C165 | | | CK73FB1H103K | CHIP C 0.010UF K | | |
| C166 | | | CC73FSL1H101J | CHIP C 100PF J | | |
| C167 | | | CE04KW1H220M | ELECTRO 22UF 50WV | | |
| C168-170 | | | CK73FB1H103K | CHIP C 0.010UF K | | |
| C171-174 | | | CQ93FMG1H823J | MYLAR 0.082UF J | | |
| C175-178 | | | CC73FSL1H101J | CHIP C 100PF J | | |
| C179 | | | CK73FB1H103K | CHIP C 0.010UF K | | |
| C180 | | | CC73FSL1H101J | CHIP C 100PF J | | |
| C181, 182 | | | CE04KW1E470M | ELECTRO 47UF 25WV | | |
| C183, 184 | | | CE04KW1H220M | ELECTRO 22UF 50WV | | |
| C185, 186 | | | CC73FSL1H101J | CHIP C 100PF J | | |
| C187 | | | CK73FB1H103K | CHIP C 0.010UF K | | |
| C188 | | | CC73FSL1H101J | CHIP C 100PF J | | |
| C191-194 | | | CQ93FMG1H823J | MYLAR 0.082UF J | | |
| C195-198 | | | CC73FSL1H101J | CHIP C 100PF J | | |
| C199 | | | CK73FB1H103K | CHIP C 0.010UF K | | |
| C200 | | | CC73FSL1H101J | CHIP C 100PF J | | |
| C201, 202 | | | CQ93FMG1H823J | MYLAR 0.082UF J | | |
| C203-206 | | | CC73FSL1H101J | CHIP C 100PF J | | |
| C207 | | | CQ93FMG1H104J | MYLAR 0.10UF J | | |
| C208 | | | CC73FSL1H101J | CHIP C 100PF J | | |
| C209 | | | CQ93FMG1H154J | MYLAR 0.15UF J | | |
| C210 | | | CC73FSL1H101J | CHIP C 100PF J | | |
| C211 | | | CQ93FMG1H393J | MYLAR 0.039UF J | | |
| C212 | | | CC73FSL1H101J | CHIP C 100PF J | | |
| C213 | | | CE04KW1H2R2M | ELECTRO 2.2UF 50WV | | |
| C214 | | | CK73FB1H103K | CHIP C 0.010UF K | | |
| C216, 217 | | | CC73FSL1H101J | CHIP C 100PF J | | |
| C218 | | | CE04KW1H2R2M | ELECTRO 2.2UF 50WV | | |
| C219, 220 | | | CK73FB1H103K | CHIP C 0.010UF K | | |
| C223, 224 | | | CC73FSL1H102J | CHIP C 1000PF J | | |
| C225 | | | CE04KW1H220M | ELECTRO 22UF 50WV | | |
| C226-230 | | | CE04KW1H4R7M | ELECTRO 4.7UF 50WV | | |
| C231 | | | CE04KW1C100M | ELECTRO 10UF 16WV | | |
| C300 | | | CK73FB1E104K | CHIP C 0.10UF K | | |
| C301, 302 | | | CC73FSL1H221J | CHIP C 220PF J | | |
| C303, 304 | | | CE04KW1H4R7M | ELECTRO 4.7UF 50WV | | |
| C305-308 | | | CC73FSL1H101J | CHIP C 100PF J | | |
| C311, 312 | | | CC73FSL1H221J | CHIP C 220PF J | | |
| C313, 314 | | | CE04KW1H4R7M | ELECTRO 4.7UF 50WV | | |
| C315-318 | | | CC73FSL1H101J | CHIP C 100PF J | | |
| C320 | | | CK73FB1H103K | CHIP C 0.010UF K | | |
| C322 | | | CC73FSL1H101J | CHIP C 100PF J | | |
| CN1 | | | E40-8253-05 | FLAT CABLE CONNECTOR | | |
| CN2 | | | E40-3256-05 | PIN ASSY | | |
| CN3 | | | E40-4248-05 | PIN ASSY | | |
| J1 | 1C | | E63-0199-05 | PHONO JACK | | |
| J2 | 1C | | E63-0094-05 | PHONO JACK | | |
| J3 | 1C | | E63-0093-05 | PHONO JACK | | |
| J4 | 1C | | E11-0293-05 | MINIATURE PHONE JACK(2P) | | |
| J5 | 1C | | E63-0114-05 | PHONO JACK | | |
| E1 | | | J11-0808-05 | WIRE CLAMPER | | |

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|------------------|----------|-----------|--------------|------------------------------|--------------|----------|
| L1 | | | L92-0044-05 | FERRITE CORE | | |
| L2 | | | L79-1216-05 | LINE FILTER | | |
| L3 | | | L92-0044-05 | FERRITE CORE | | |
| L4, 5 | | | L79-1216-05 | LINE FILTER | | |
| X1 | | | L77-2220-05 | CRYSTAL RESONATOR(10MHZ) | | |
| X2 | | | L77-2221-05 | CRYSTAL RESONATOR(12.288MHZ) | | |
| R1 | | | RK73FB2A105J | CHIP R 1.0M J 1/10W | | |
| R2 | | | RK73FB2A821J | CHIP R 820 J 1/10W | | |
| R3 | | | RK73FB2A201J | CHIP R 200 J 1/10W | | |
| R4 | | | RK73FB2A183J | CHIP R 18K J 1/10W | | |
| R5-15 | | | RK73FB2A221J | CHIP R 220 J 1/10W | | |
| R16 | | | RK73FB2A104J | CHIP R 100K J 1/10W | | |
| R17, 18 | | | RK73FB2A102J | CHIP R 1.0K J 1/10W | | |
| R19 | | | RK73FB2A221J | CHIP R 220 J 1/10W | | |
| R20 | | | RK73FB2A104J | CHIP R 100K J 1/10W | | |
| R21 | | | RK73FB2A221J | CHIP R 220 J 1/10W | | |
| R22 | | | RK73FB2A102J | CHIP R 1.0K J 1/10W | | |
| R23, 24 | | | RK73FB2A221J | CHIP R 220 J 1/10W | | |
| R25-27 | | | RK73FB2A222J | CHIP R 2.2K J 1/10W | | |
| R28 | | | RK73FB2A105J | CHIP R 1.0M J 1/10W | | |
| R29 | | | RK73FB2A750J | CHIP R 75 J 1/10W | | |
| R30 | | | RK73FB2A472J | CHIP R 4.7K J 1/10W | | |
| R31 | | | RK73FB2A473J | CHIP R 47K J 1/10W | | |
| R32 | | | RK73FB2A472J | CHIP R 4.7K J 1/10W | | |
| R33-36 | | | RK73FB2A102J | CHIP R 1.0K J 1/10W | | |
| R37 | | | RK73FB2A473J | CHIP R 47K J 1/10W | | |
| R50 | | | RK73FB2A750J | CHIP R 75 J 1/10W | | |
| R51 | | | RK73FB2A332J | CHIP R 3.3K J 1/10W | | |
| R52, 53 | | | RK73FB2A750J | CHIP R 75 J 1/10W | | |
| R54 | | | RK73FB2A332J | CHIP R 3.3K J 1/10W | | |
| R55, 56 | | | RK73FB2A750J | CHIP R 75 J 1/10W | | |
| Δ R57, 58 | | | RS14KB3A391J | FL-PROOF RS 390 J 1W | | |
| R59 | | | RD14NB2E1R0J | RD 1 J 1/4W | | |
| R61 | | | RD14NB2E2R2J | RD 2.2 J 1/4W | | |
| Δ R62, 63 | | | RD14NB2E100J | RD 10 J 1/4W | | |
| Δ R64 | | | RD14NB2E1R0J | RD 1 J 1/4W | | |
| Δ R66 | | | RD14NB2E2R2J | RD 2.2 J 1/4W | | |
| Δ R67 | | | RD14NB2E1R0J | RD 1 J 1/4W | | |
| Δ R68 | | | RD14NB2E2R2J | RD 2.2 J 1/4W | | |
| R69 | | | RK73FB2A203J | CHIP R 20K J 1/10W | | |
| R70 | | | RK73FB2A101J | CHIP R 100 J 1/10W | | |
| R71 | | | RK73FB2A473J | CHIP R 47K J 1/10W | | |
| R72 | | | RK73FB2A472J | CHIP R 4.7K J 1/10W | | |
| R101-104 | | | RK73FB2A203J | CHIP R 20K J 1/10W | | |
| R105, 106 | | | RK73FB2A101J | CHIP R 100 J 1/10W | | |
| R107, 108 | | | RK73FB2A102J | CHIP R 1.0K J 1/10W | | |
| R111, 112 | | | RK73FB2A104J | CHIP R 100K J 1/10W | | |
| R113, 114 | | | RK73FB2A512J | CHIP R 5.1K J 1/10W | | |
| R115, 116 | | | RK73FB2A101J | CHIP R 100 J 1/10W | | |
| R117-120 | | | RK73FB2A162J | CHIP R 1.6K J 1/10W | | |
| R121, 122 | | | RK73FB2A101J | CHIP R 100 J 1/10W | | |
| R131, 132 | | | RK73FB2A104J | CHIP R 100K J 1/10W | | |
| R133, 134 | | | RK73FB2A512J | CHIP R 5.1K J 1/10W | | |
| R135, 136 | | | RK73FB2A432J | CHIP R 4.3K J 1/10W | | |

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PARTS LIST

KRF-V8010D/V8010DW

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|-----------|----------|-----------|--------------|----------------------|--------------|----------|
| R137, 138 | | | RK73FB2A392J | CHIP R 3.9K J 1/10W | | |
| R139-142 | | | RK73FB2A162J | CHIP R 1.6K J 1/10W | | |
| R143, 144 | | | RK73FB2A101J | CHIP R 100 J 1/10W | | |
| R151, 152 | | | RK73FB2A104J | CHIP R 100K J 1/10W | | |
| R153, 154 | | | RK73FB2A512J | CHIP R 5.1K J 1/10W | | |
| R155, 156 | | | RK73FB2A432J | CHIP R 4.3K J 1/10W | | |
| R157, 158 | | | RK73FB2A392J | CHIP R 3.9K J 1/10W | | |
| R159-162 | | | RK73FB2A162J | CHIP R 1.6K J 1/10W | | |
| R163, 164 | | | RK73FB2A101J | CHIP R 100 J 1/10W | | |
| R173, 174 | | | RK73FB2A153J | CHIP R 15K J 1/10W | | |
| R175, 176 | | | RK73FB2A303J | CHIP R 30K J 1/10W | | |
| R177, 178 | | | RK73FB2A101J | CHIP R 100 J 1/10W | | |
| R181, 182 | | | RK73FB2A104J | CHIP R 100K J 1/10W | | |
| R183, 184 | | | RK73FB2A101J | CHIP R 100 J 1/10W | | |
| R185-188 | | | RK73FB2A392J | CHIP R 3.9K J 1/10W | | |
| R189-192 | | | RK73FB2A222J | CHIP R 2.2K J 1/10W | | |
| R193, 194 | | | RK73FB2A101J | CHIP R 100 J 1/10W | | |
| R195, 196 | | | RK73FB2A224J | CHIP R 220K J 1/10W | | |
| R201, 202 | | | RK73FB2A153J | CHIP R 15K J 1/10W | | |
| R203, 204 | | | RK73FB2A303J | CHIP R 30K J 1/10W | | |
| R205 | | | RK73FB2A153J | CHIP R 15K J 1/10W | | |
| R206 | | | RK73FB2A303J | CHIP R 30K J 1/10W | | |
| R207 | | | RK73FB2A123J | CHIP R 12K J 1/10W | | |
| R208-210 | | | RK73FB2A163J | CHIP R 16K J 1/10W | | |
| R211-214 | | | RK73FB2A101J | CHIP R 100 J 1/10W | | |
| R215, 216 | | | RK73FB2A224J | CHIP R 220K J 1/10W | | |
| R217-220 | | | RK73FB2A101J | CHIP R 100 J 1/10W | | |
| R221, 222 | | | RK73FB2A203J | CHIP R 20K J 1/10W | | |
| R223-225 | | | RK73FB2A393J | CHIP R 39K J 1/10W | | |
| R226 | | | RK73FB2A123J | CHIP R 12K J 1/10W | | |
| R301, 302 | | | RK73FB2A102J | CHIP R 1.0K J 1/10W | | |
| R303-306 | | | RK73FB2A224J | CHIP R 220K J 1/10W | | |
| R307, 308 | | | RK73FB2A101J | CHIP R 100 J 1/10W | | |
| R311, 312 | | | RK73FB2A102J | CHIP R 1.0K J 1/10W | | |
| R313-316 | | | RK73FB2A224J | CHIP R 220K J 1/10W | | |
| R317 | | | RK73FB2A101J | CHIP R 100 J 1/10W | | |
| R318 | | | RK73FB2A103J | CHIP R 10K J 1/10W | | |
| R320 | | | RK73FB2A103J | CHIP R 10K J 1/10W | | |
| S1 | 1C | | S62-0034-05 | SLIDE SWITCH | | |
| D1, 2 | | | DA204J | DIODE | | |
| D1, 2 | | | 1SS302 | DIODE | | |
| D3, 4 | | | UDZ5.1B | ZENER DIODE | | |
| D5 | | | D2SBA20F03 | DIODE | | |
| D7-9 | | | UDZ6.2B | ZENER DIODE | | |
| IC1 | | | YSS248 | MOS-IC | | |
| IC2 | | | CS4226KQG | MOS-IC | | |
| IC3 | | | TC74HCU04AF | IC(HEX INVERTER SMD) | | |
| IC4 | | | NJM2279M | ANALOGUE IC | | |
| IC5 | | | TC9162AF | MOS-IC | | |
| IC6 | | | TC9164AF | MOS-IC | | |
| IC8-10 | | | TA7805SB | ANALOGUE IC | | |
| IC11-23 | | | NJM4565M | IC(OP AMP X2) | | |
| IC24 | | | TC7W241FU | MOS-IC | | |
| IC31, 32 | | | NJM4565M | IC(OP AMP X2) | | |

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|----------------------------|----------|-----------|---------------|------------------------|--------------|----------|
| Q1 | | | 2SC4081(R,S) | TRANSISTOR | | |
| Q1 | | | 2SC4116(Y,GR) | TRANSISTOR | | |
| Q2 | | | 2SA1576A(R,S) | TRANSISTOR | | |
| Q2 | | | 2SA1586(Y,GR) | TRANSISTOR | | |
| A1 | | | W02-1181-05 | OPTIC RECEIVING MODULE | | |
| AUDIO (X09-6092-71) | | | | | | |
| D500-502 | | | B30-2513-05 | LED(RED) | | |
| D527 | | | B30-2513-05 | LED(RED) | | |
| C1, 2 | | | CQ93FMG1H224J | MYLAR 0.22UF J | | ET1Q1 |
| C3 | | | C91-1480-05 | MP 0.22UF 250WV | | X1 |
| C5, 6 | | | C90-3760-05 | ELECTRO 4700UF 75WV | | X1 |
| C5, 6 | | | C90-3762-05 | ELECTRO 4700UF 63WV | | ET1Q1 |
| C7, 8 | | | C90-3763-05 | ELECTRO 3300UF 35WV | | ET1Q1 |
| C7, 8 | | | C90-3776-05 | ELECTRO 3300UF 42WV | | X1 |
| C9 | | | CE04KW1V222M | ELECTRO 2200UF 35WV | | |
| C10 | | | CE04KW1V471M | ELECTRO 470UF 35WV | | |
| C11-14 | | | CK73FF1C224Z | CHIP C 0.22UF Z | | |
| C15, 16 | | | CE04KW1E101M | ELECTRO 100UF 25WV | | |
| C18 | | | CE04KW1J220M | ELECTRO 22UF 63WV | | |
| C19 | | | CE04KW1V470M | ELECTRO 47UF 35WV | | |
| C21, 22 | | | CE04KW1H470M | ELECTRO 47UF 50WV | | |
| C23-26 | | | CE04KW2A100M | ELECTRO 10UF 100WV | | |
| C27, 28 | | | CC73FSL1H151J | CHIP C 150PF J | | |
| C29, 30 | | | CE04KW1H470M | ELECTRO 47UF 50WV | | |
| C31, 32 | | | CE04KW2A100M | ELECTRO 10UF 100WV | | |
| C33, 34 | | | CK45FB2H392K | CERAMIC 3900PF K | | |
| C35 | | | CE04KW0J221M | ELECTRO 220UF 6.3WV | | |
| C36 | | | CE04KW1V4R7M | ELECTRO 4.7UF 35WV | | |
| C37 | | | CE04KW1H010M | ELECTRO 1.0UF 50WV | | |
| C38 | | | CE04HW1E100M | NP-ELEC 10UF 25WV | | |
| C39, 40 | | | CK45FB2H392K | CERAMIC 3900PF K | | |
| C41 | | | CE04KW1A101M | ELECTRO 100UF 10WV | | |
| C42 | | | CE04KW1C330M | ELECTRO 33UF 16WV | | |
| C101, 102 | | | CC73FSL1H390J | CHIP C 39PF J | | |
| C103, 104 | | | CE04KW1H100M | ELECTRO 10UF 50WV | | |
| C105, 106 | | | CC73FSL1H221J | CHIP C 220PF J | | |
| C107, 108 | | | CE04KW1A470M | ELECTRO 47UF 10WV | | |
| C109, 110 | | | CC45FSL1H101J | CERAMIC 100PF J | | |
| C111, 112 | | | CQ93FMG1H123J | MYLAR 0.012UF J | | |
| C113, 114 | | | CK45FB1H332K | CERAMIC 3300PF K | | |
| C115, 116 | | | CE04KW1V4R7M | ELECTRO 4.7UF 35WV | | |
| C117 | | | CC45FSL1H101J | CERAMIC 100PF J | | |
| C118 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C119, 120 | | | CC73FSL1H221J | CHIP C 220PF J | | |
| C121, 122 | | | CC73FSL1H151J | CHIP C 150PF J | | |
| C123, 124 | | | CC73FSL1H221J | CHIP C 220PF J | | |
| C127, 128 | | | CC73FSL1H221J | CHIP C 220PF J | | |
| C131, 132 | | | CC73FSL1H221J | CHIP C 220PF J | | |
| C135, 136 | | | CC73FSL1H221J | CHIP C 220PF J | | |
| C139, 140 | | | CC73FSL1H221J | CHIP C 220PF J | | |
| C143, 144 | | | CC73FSL1H221J | CHIP C 220PF J | | |
| C147, 148 | | | CC73FSL1H221J | CHIP C 220PF J | | |
| C151, 152 | | | CC73FSL1H221J | CHIP C 220PF J | | |

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|-----------|----------|-----------|---------------|---------------------|--------------|----------|
| C155, 156 | | | CE04KW1H2R2M | ELECTRO 2.2UF 50WV | | |
| C157-162 | | | CC73FSL1H101J | CHIP C 100PF J | | |
| C163, 164 | | | CE04KW1C220M | ELECTRO 22UF 16WV | | |
| C165 | | | CC45FSL1H101J | CERAMIC 100PF J | | |
| C166-168 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C169, 170 | | | CC73FSL1H221J | CHIP C 220PF J | | |
| C171, 172 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C200 | | | CE04KW1H010M | ELECTRO 1.0UF 50WV | | |
| C201 | | | CE04KW1HR33M | ELECTRO 0.33UF 50WV | | |
| C202 | | | CQ93FMG1H153J | MYLAR 0.015UF J | | |
| C203, 204 | | | CE04KW1V4R7M | ELECTRO 4.7UF 35WV | | |
| C205, 206 | | | CK73FB1H222K | CHIP C 2200PF K | | |
| C207-210 | | | CC73FSL1H101J | CHIP C 100PF J | | |
| C211 | | | CQ93FMG1H822J | MYLAR 8200PF J | | |
| C212 | | | CC73FSL1H221J | CHIP C 220PF J | | |
| C219 | | | CQ93FMG1H822J | MYLAR 8200PF J | | |
| C220 | | | CQ93FMG1H153J | MYLAR 0.015UF J | | |
| C221 | | | CE04KW1HR33M | ELECTRO 0.33UF 50WV | | |
| C223, 224 | | | CE04KW1C100M | ELECTRO 10UF 16WV | | |
| C226-228 | | | CE04KW1V4R7M | ELECTRO 4.7UF 35WV | | |
| C229, 230 | | | CC73FSL1H471J | CHIP C 470PF J | | |
| C233, 234 | | | CC73FSL1H101J | CHIP C 100PF J | | |
| C237 | | | CC45FSL1H101J | CERAMIC 100PF J | | |
| C238 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C239, 240 | | | CE04KW1V4R7M | ELECTRO 4.7UF 35WV | | |
| C241, 242 | | | CC73FSL1H471J | CHIP C 470PF J | | |
| C245, 246 | | | CC73FSL1H101J | CHIP C 100PF J | | |
| C251, 252 | | | CE04KW1V4R7M | ELECTRO 4.7UF 35WV | | |
| C253, 254 | | | CC73FSL1H471J | CHIP C 470PF J | | |
| C257, 258 | | | CC73FSL1H101J | CHIP C 100PF J | | |
| C263, 264 | | | CC73FSL1H821J | CHIP C 820PF J | | |
| C265, 266 | | | CE04KW1H2R2M | ELECTRO 2.2UF 50WV | | |
| C267, 268 | | | CE04KW1A101M | ELECTRO 100UF 10WV | | |
| C271, 272 | | | CE04KW1H2R2M | ELECTRO 2.2UF 50WV | | |
| C273, 274 | | | CE04KW1A101M | ELECTRO 100UF 10WV | | |
| C277 | | | CE04KW1H2R2M | ELECTRO 2.2UF 50WV | | |
| C279 | | | CE04KW1A101M | ELECTRO 100UF 10WV | | |
| C281, 282 | | | CC45FCH1H100D | CERAMIC 10PF D | | |
| C283-285 | | | CC45FCH1H150J | CERAMIC 15PF J | | |
| C287, 288 | | | CK73FB1H102K | CHIP C 1000PF K | | |
| C289, 290 | | | CQ93FMG1H104J | MYLAR 0.10UF J | | |
| C293, 294 | | | CK73FB1H102K | CHIP C 1000PF K | | |
| C295, 296 | | | CQ93FMG1H104J | MYLAR 0.10UF J | | |
| C299 | | | CK73FB1H102K | CHIP C 1000PF K | | |
| C301 | | | CQ93FMG1H104J | MYLAR 0.10UF J | | |
| C305-308 | | | CC45FSL1H101J | CERAMIC 100PF J | | |
| C309-311 | | | CK45FF1H472Z | CERAMIC 4700PF Z | | |
| C313-316 | | | CK45FF1H472Z | CERAMIC 4700PF Z | | |
| C319, 320 | | | CE04KW1H3R3M | ELECTRO 3.3UF 50WV | | |
| C321-325 | | | CE04KW1H010M | ELECTRO 1.0UF 50WV | | |
| C326-328 | | | CE04KW1H100M | ELECTRO 10UF 50WV | | |
| C329-334 | | | CE04KW1C470M | ELECTRO 47UF 16WV | X1 | |
| C329, 330 | | | CE04KW1C470M | ELECTRO 47UF 16WV | ET1Q1 | |
| C331-333 | | | CE04KW1V4R7M | ELECTRO 4.7UF 35WV | ET1Q1 | |
| C334 | | | CE04KW1C470M | ELECTRO 47UF 16WV | ET1Q1 | |

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|-----------|----------|-----------|---------------|------------------------------|--------------|----------|
| C335 | | | CE04KW1H101M | ELECTRO 100UF 50WV | | |
| C500 | | | CK45FB1H102K | CERAMIC 1000PF K | | |
| C501 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C502 | | | CQ93FMG1H104J | MYLAR 0.10UF J | | |
| C503 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C504 | | | CK73FB1H103K | CHIP C 0.010UF K | | |
| C505 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C506 | | | CK45FB1H102K | CERAMIC 1000PF K | | |
| C507 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C508, 509 | | | CE04KW1A101M | ELECTRO 100UF 10WV | | |
| C510 | | | CC45FSL1H331J | CERAMIC 330PF J | | |
| C511-513 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C514 | | | CK73FB1H103K | CHIP C 0.010UF K | | |
| C515 | | | CK45FB1H561K | CERAMIC 560PF K | | |
| C516 | | | CE04KW1H2R2M | ELECTRO 2.2UF 50WV | | |
| C517 | | | CE04KW1H010M | ELECTRO 1.0UF 50WV | | |
| C518-522 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C523 | | | CE04KW1A101M | ELECTRO 100UF 10WV | | |
| C524 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C525 | | | CE04KW1H010M | ELECTRO 1.0UF 50WV | | |
| C526 | | | C90-3214-05 | ELECTRO 100UF 6.3WV | | |
| C527 | | | CC73FCH1H470J | CHIP C 47PF J | | |
| C528 | | | CC73FCH1H180J | CHIP C 18PF J | | |
| C529, 530 | | | CE04KW1V4R7M | ELECTRO 4.7UF 35WV | | |
| C531 | | | CK73FB1H103K | CHIP C 0.010UF K | | |
| C532, 533 | | | CK73FB1H102K | CHIP C 1000PF K | | |
| C534 | | | C90-1827-05 | ELECTRO 0.047F 5.5WV | | |
| CN1 | | | E40-4299-05 | PIN ASSY | | |
| CN8 | | | E40-8251-05 | FLAT CABLE CONNECTOR | | |
| CN9 | | | E40-9848-05 | PIN ASSY | | |
| CN11 | | | E40-8254-05 | FLAT CABLE CONNECTOR | | |
| CN12 | | | E40-8196-05 | PIN ASSY | | |
| CN13 | | | E40-4248-05 | PIN ASSY | | |
| CN51 | | | E40-8258-05 | FLAT CABLE CONNECTOR | | |
| CN52 | | | E40-8253-05 | FLAT CABLE CONNECTOR | | |
| CN53 | | | E40-8250-05 | FLAT CABLE CONNECTOR | | |
| J1 | 2C | | E63-0046-15 | PHONO JACK | | |
| J2, 3 | 2C | | E63-0047-15 | PHONO JACK | | |
| J4 | 2C | | E63-0114-05 | PHONO JACK | | |
| J5 | 2C | * | E70-0100-05 | SCREW TERMINAL BOARD | | |
| J6 | 2C | | E70-0047-05 | LOCK TERMINAL BOARD | | |
| J7 | 2C | | E63-0046-15 | PHONO JACK | | |
| W401-405 | | | E29-1634-14 | LEAD PLATE | | |
| L1-5 | | | L39-1373-05 | PHASE COMPENSATION COIL | | |
| L501 | | | L40-1091-17 | SMALL FIXED INDUCTOR(10UH) | | |
| L502 | | | L40-1001-17 | SMALL FIXED INDUCTOR(10UH,K) | | |
| X501 | | | L78-0290-05 | RESONATOR (8MHZ) | | |
| X502 | | | L77-2002-05 | CRYSTAL RESONATOR(4.332MHZ) | | |
| R1, 2 | | | RK73FB2A513J | CHIP R 51K J 1/10W | | |
| R3, 4 | | | RK73FB2A273J | CHIP R 27K J 1/10W | | |
| R5 | | | RK73FB2A222J | CHIP R 2.2K J 1/10W | | |
| R6 | | | RK73FB2A333J | CHIP R 33K J 1/10W | | |
| R8 | | | RK73FB2A152J | CHIP R 1.5K J 1/10W | X1 | |

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|-----------|----------|-----------|--------------|-------------|------|---|--------------|----------|
| R9, 10 | | | RS14KB3D391J | FL-PROOF RS | 390 | J | 2W | |
| R11, 12 | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | |
| R14 | | | RD14NB2E1R0J | RD | 1 | J | 1/4W | |
| R16, 17 | | | RK73FB2A273J | CHIP R | 27K | J | 1/10W | |
| R18 | | | RD14NB2E4R7J | RD | 4.7 | J | 1/4W | |
| R19 | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | |
| R21, 22 | | | RS14KB3A392J | FL-PROOF RS | 3.9K | J | 1W | |
| R23, 24 | | | RD14NB2E103J | RD | 10K | J | 1/4W | |
| R25, 26 | | | RS14KB3A392J | FL-PROOF RS | 3.9K | J | 1W | |
| R27, 28 | | | RK73FB2A182J | CHIP R | 1.8K | J | 1/10W | ET1Q1 |
| R27, 28 | | | RK73FB2A272J | CHIP R | 2.7K | J | 1/10W | X1 |
| R30 | | | RK73FB2A223J | CHIP R | 22K | J | 1/10W | |
| R32 | | | RK73FB2A153J | CHIP R | 15K | J | 1/10W | |
| R34 | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | |
| R35 | | | RK73FB2A182J | CHIP R | 1.8K | J | 1/10W | ET1Q1 |
| R35 | | | RK73FB2A272J | CHIP R | 2.7K | J | 1/10W | X1 |
| R37 | | | RS14KB3A681J | FL-PROOF RS | 680 | J | 1W | |
| R38-40 | | | RS14KB3D271J | FL-PROOF RS | 270 | J | 2W | |
| R41 | | | RS14KB3D221J | FL-PROOF RS | 220 | J | 2W | |
| R42-44 | | | RS14KB3D391J | FL-PROOF RS | 390 | J | 2W | |
| R45 | | | RD14NB2E1R0J | RD | 1 | J | 1/4W | |
| R46 | | | RD14NB2E821J | RD | 820 | J | 1/4W | |
| R50 | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | |
| R51 | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | |
| R101, 102 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | |
| R103, 104 | | | RK73FB2A273J | CHIP R | 27K | J | 1/10W | |
| R105, 106 | | | RK73FB2A101J | CHIP R | 100 | J | 1/10W | |
| R117, 118 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | |
| R119, 120 | | | RK73FB2A224J | CHIP R | 220K | J | 1/10W | |
| R121, 122 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | |
| R123, 124 | | | RK73FB2A224J | CHIP R | 220K | J | 1/10W | |
| R125, 126 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | |
| R127, 128 | | | RK73FB2A224J | CHIP R | 220K | J | 1/10W | |
| R129, 130 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | |
| R131, 132 | | | RK73FB2A224J | CHIP R | 220K | J | 1/10W | |
| R135, 136 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | |
| R137, 138 | | | RK73FB2A224J | CHIP R | 220K | J | 1/10W | |
| R139, 140 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | |
| R141, 142 | | | RK73FB2A224J | CHIP R | 220K | J | 1/10W | |
| R143, 144 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | |
| R145, 146 | | | RK73FB2A224J | CHIP R | 220K | J | 1/10W | |
| R147, 148 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | |
| R149, 150 | | | RK73FB2A224J | CHIP R | 220K | J | 1/10W | |
| R151, 152 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | |
| R153-156 | | | RK73FB2A224J | CHIP R | 220K | J | 1/10W | |
| R157, 158 | | | RK73FB2A4R7J | CHIP R | 4.7 | J | 1/10W | |
| R165-168 | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | |
| R169-172 | | | RK73FB2A223J | CHIP R | 22K | J | 1/10W | |
| R173, 174 | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | |
| R175, 176 | | | RK73FB2A622J | CHIP R | 6.2K | J | 1/10W | |
| R177, 178 | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | |
| R203, 204 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | |
| R205, 206 | | | RK73FB2A100J | CHIP R | 10 | J | 1/10W | |
| R219 | | | RS14KB3A221J | FL-PROOF RS | 220 | J | 1W | |
| R220 | | | RS14KB3A271J | FL-PROOF RS | 270 | J | 1W | |

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|-----------|----------|-----------|--------------|-------------|------|---|--------------|----------|
| R226 | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | |
| R227, 228 | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | |
| R229, 230 | | | RK73FB2A133J | CHIP R | 13K | J | 1/10W | ET1Q1 |
| R229, 230 | | | RK73FB2A912J | CHIP R | 9.1K | J | 1/10W | X1 |
| R231, 232 | | | RK73FB2A183J | CHIP R | 18K | J | 1/10W | |
| R237, 238 | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | |
| R239, 240 | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | |
| R241, 242 | | | RK73FB2A363J | CHIP R | 36K | J | 1/10W | X1 |
| R241, 242 | | | RK73FB2A913J | CHIP R | 91K | J | 1/10W | ET1Q1 |
| R243, 244 | | | RK73FB2A183J | CHIP R | 18K | J | 1/10W | |
| R249, 250 | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | |
| R251, 252 | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | |
| R253 | | | RK73FB2A363J | CHIP R | 36K | J | 1/10W | X1 |
| R253 | | | RK73FB2A913J | CHIP R | 91K | J | 1/10W | ET1Q1 |
| R254 | | | RK73FB2A432J | CHIP R | 4.3K | J | 1/10W | |
| R255, 256 | | | RK73FB2A183J | CHIP R | 18K | J | 1/10W | |
| R263, 264 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | |
| R267 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | |
| R269, 270 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | |
| R271 | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | |
| R272 | | | RK73FB2A361J | CHIP R | 360 | J | 1/10W | |
| R275, 276 | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | |
| R277, 278 | | | RK73FB2A563J | CHIP R | 56K | J | 1/10W | |
| R284 | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | |
| R291 | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | |
| R305, 306 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | |
| R309 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | |
| R310 | | | RK73FB2A333J | CHIP R | 33K | J | 1/10W | |
| R311, 312 | | | R92-1866-05 | METAL FILM | 0.1 | J | 2W | |
| R313, 314 | | | RK73FB2A333J | CHIP R | 33K | J | 1/10W | |
| R315, 316 | | | RK73FB2A243J | CHIP R | 24K | J | 1/10W | X1 |
| R315, 316 | | | RK73FB2A273J | CHIP R | 27K | J | 1/10W | ET1Q1 |
| R317, 318 | | | RK73FB2A471J | CHIP R | 470 | J | 1/10W | |
| R319, 320 | | | RK73FB2A333J | CHIP R | 33K | J | 1/10W | |
| R323, 324 | | | RD14NB2E4R7J | RD | 4.7 | J | 1/4W | |
| R325, 326 | | | R92-1866-05 | METAL FILM | 0.1 | J | 2W | |
| R327, 328 | | | RK73FB2A333J | CHIP R | 33K | J | 1/10W | |
| R329, 330 | | | RK73FB2A303J | CHIP R | 30K | J | 1/10W | |
| R331, 332 | | | RK73FB2A471J | CHIP R | 470 | J | 1/10W | |
| R333, 334 | | | RK73FB2A333J | CHIP R | 33K | J | 1/10W | |
| R337, 338 | | | RD14NB2E4R7J | RD | 4.7 | J | 1/4W | |
| R339 | | | R92-1866-05 | METAL FILM | 0.1 | J | 2W | |
| R341 | | | RD14NB2E4R7J | RD | 4.7 | J | 1/4W | |
| R351, 352 | | | RD14NB2E4R7J | RD | 4.7 | J | 1/4W | |
| R353 | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | |
| R354 | | | RK73FB2A223J | CHIP R | 22K | J | 1/10W | |
| R355 | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | |
| R356, 357 | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | |
| R361 | | | RK73FB2A333J | CHIP R | 33K | J | 1/10W | |
| R363 | | | RK73FB2A303J | CHIP R | 30K | J | 1/10W | |
| R365 | | | RK73FB2A471J | CHIP R | 470 | J | 1/10W | |
| R367, 368 | | | RK73FB2A242J | CHIP R | 2.4K | J | 1/10W | X1 |
| R367, 368 | | | RK73FB2A332J | CHIP R | 3.3K | J | 1/10W | ET1Q1 |
| R369-371 | | | RK73FB2A562J | CHIP R | 5.6K | J | 1/10W | X1 |
| R369-371 | | | RK73FB2A682J | CHIP R | 6.8K | J | 1/10W | ET1Q1 |

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|-----------|----------|-----------|--------------|---------------------|--------------|----------|
| R372 | | | RK73FB2A162J | CHIP R 1.6K J 1/10W | | |
| R373-377 | | | RK73FB2A102J | CHIP R 1.0K J 1/10W | | |
| R384 | | | RK73FB2A103J | CHIP R 10K J 1/10W | | |
| R385 | | | RK73FB2A513J | CHIP R 51K J 1/10W | | |
| R386 | | | RK73FB2A103J | CHIP R 10K J 1/10W | | |
| R387 | | | RK73EB2B472J | CHIP R 4.7K J 1/8W | | |
| R388 | | | RK73FB2A103J | CHIP R 10K J 1/10W | ET1Q1 | |
| R522 | | | RD14NB2E1R0J | RD 1 J 1/4W | | |
| R534 | | | RK73FB2A101J | CHIP R 100 J 1/10W | | |
| R536 | | | RK73FB2A101J | CHIP R 100 J 1/10W | | |
| R539 | | | RK73FB2A101J | CHIP R 100 J 1/10W | | |
| R542 | | | RK73EB2B101J | CHIP R 100 J 1/8W | | |
| R549 | | | RK73FB2A102J | CHIP R 1.0K J 1/10W | | |
| R555, 556 | | | RK73FB2A103J | CHIP R 10K J 1/10W | | |
| R562 | | | RK73FB2A102J | CHIP R 1.0K J 1/10W | | |
| R578 | | | RK73FB2A103J | CHIP R 10K J 1/10W | | |
| R587 | | | RK73FB2A103J | CHIP R 10K J 1/10W | | |
| R590 | | | RK73FB2A222J | CHIP R 2.2K J 1/10W | | |
| R592 | | | RK73FB2A102J | CHIP R 1.0K J 1/10W | | |
| R598 | | | RK73FB2A361J | CHIP R 360 J 1/10W | X1 | |
| R599 | | | RK73FB2A472J | CHIP R 4.7K J 1/10W | X1 | |
| W503 | | | R92-0670-05 | CHIP R 0 OHM | | |
| W504 | | | R92-0679-05 | CHIP R 0 OHM | | |
| W505 | | | R92-0670-05 | CHIP R 0 OHM | X1 | |
| W506, 507 | | | R92-0670-05 | CHIP R 0 OHM | ET1Q1 | |
| W507 | | | R92-0670-05 | CHIP R 0 OHM | X1 | |
| W508 | | | R92-0679-05 | CHIP R 0 OHM | X1 | |
| W509 | | | R92-0670-05 | CHIP R 0 OHM | X1 | |
| K1-4 | | | S76-0076-05 | MAGNETIC RELAY | | |
| S501-507 | | | S70-0031-05 | TACT SWITCH | | |
| S509-512 | | | S70-0031-05 | TACT SWITCH | | |
| S514-516 | | | S70-0031-05 | TACT SWITCH | | |
| S520, 521 | | | S70-0031-05 | TACT SWITCH | | |
| S517 | | | T99-0602-05 | ROTARY ENCODER | | |
| S518, 519 | | | T99-0605-05 | ROTARY ENCODER | | |
| D1 | | | D4SBL20UF03 | DIODE | | |
| D2 | | | D4SBL20UF03 | DIODE | | |
| D2 | | | D5SBA20F03 | DIODE | X1 | ET1Q1 |
| D3-6 | | | S5688B | DIODE | | |
| D3-6 | | | 1SR139-400 | DIODE | | |
| D8, 9 | | | HZS16N(B2) | ZENER DIODE | | |
| D8, 9 | | | MTZJ16(B) | ZENER DIODE | | |
| D11 | | | HZS7.5N(B2) | ZENER DIODE | | |
| D11 | | | MTZJ7.5(B) | ZENER DIODE | | |
| D12-14 | | | HZS8.2N(B2) | ZENER DIODE | | |
| D12-14 | | | MTZJ8.2(B) | ZENER DIODE | | |
| D15, 16 | | | HZS6.8N(B2) | ZENER DIODE | | |
| D15, 16 | | | MTZJ6.8(B) | ZENER DIODE | | |
| D17 | | | HSS104A | DIODE | | |
| D17 | | | 1SS133 | DIODE | | |
| D18 | | | HZS4.7N(B2) | ZENER DIODE | | |
| D18 | | | MTZJ4.7(B) | ZENER DIODE | | |
| D19 | | | HZS3.3N(B2) | ZENER DIODE | | |
| D19 | | | MTZJ3.3(B) | ZENER DIODE | | |

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|----------|----------|-----------|---------------|----------------------|--------------|----------|
| D20-23 | | | MA111 | DIODE | | |
| D24, 25 | | | HZS18N(B2) | ZENER DIODE | | |
| D24, 25 | | | MTZJ18(B) | ZENER DIODE | | |
| D26, 27 | | | MA111 | DIODE | ET1Q1 | X1 |
| D28 | | | MA111 | DIODE | | |
| D29 | | | MA111 | DIODE | ET1Q1 | X1 |
| D30 | | | MA111 | DIODE | X1 | |
| D31 | | | HZS24N(B2) | ZENER DIODE | ET1Q1 | X1 |
| D31 | | | HZS30N(B2) | ZENER DIODE | X1 | |
| D31 | | | MTZJ24(B) | ZENER DIODE | ET1Q1 | X1 |
| D31 | | | MTZJ30(B) | ZENER DIODE | | X1 |
| D33 | | | MA111 | DIODE | | |
| D34, 35 | | * | UDZ10B | ZENER DIODE | ET1Q1 | X1 |
| D34, 35 | | | UDZ15B | ZENER DIODE | | |
| D503 | | | HSS104A | DIODE | | |
| D503 | | | 1SS133 | DIODE | | |
| D504 | | | HSS104A | DIODE | Q1 | |
| D504 | | | 1SS133 | DIODE | Q1 | |
| D505 | | | HSS104A | DIODE | ET1X1 | |
| D505 | | | 1SS133 | DIODE | ET1X1 | |
| D507 | | | HSS104A | DIODE | Q1 | |
| D507 | | | 1SS133 | DIODE | Q1 | |
| D508-522 | | | HSS104A | DIODE | | |
| D508-522 | | | 1SS133 | DIODE | | |
| D524 | | | HSS104A | DIODE | | |
| D524 | | | 1SS133 | DIODE | | |
| D525 | | | HZS6.2N(B2) | ZENER DIODE | | |
| D525 | | | MTZJ6.2(B) | ZENER DIODE | | |
| D526 | | | HSS104A | DIODE | | |
| D526 | | | 1SS133 | DIODE | | |
| D529 | | | HSS104A | DIODE | | |
| D529 | | | 1SS133 | DIODE | | |
| D531 | | | HSS104A | DIODE | | |
| D531 | | | 1SS133 | DIODE | X1 | X1 |
| ED51 | | 2B | 11-MT-116GK | INDICATOR TUBE | | |
| IC1 | | ▲ | TA7815SB | ANALOGUE IC | | |
| IC2 | | ▲ | TA79015SB | ANALOGUE IC | | |
| IC3 | | ▲ | STK411-230D | HYBRID IC | | |
| IC4 | | ▲ | STK410-030D | HYBRID IC | | |
| IC5 | | | NJM4580ED | ANALOGUE IC | | |
| IC6 | | | TC9164AF | MOS-IC | | |
| IC7 | | | TC9163AF | MOS-IC | | |
| IC8 | | | NJM4565MD | IC(OP AMP X2) | | |
| IC9 | | | M62446FP | ANALOGUE IC | | |
| IC10-12 | | | NJM4565MD | IC(OP AMP X2) | | |
| IC51 | | | CXP82852-134Q | MI-COM IC | | |
| IC52 | | | X24C02S | MEMORY IC | | |
| IC53 | | | S-80740AL-A4 | IC(VOLTAGE DETECTOR) | | |
| IC54 | | | SAA6579T/R | ANALOGUE IC | | |
| Q1 | | | 2SC1845(F,E) | TRANSISTOR | | |
| Q2 | | ▲ | 2SB1640 | TRANSISTOR | | |
| Q3-14 | | | 2SC2878(B) | TRANSISTOR | | |
| Q15, 16 | | ▲ | 2SA1576A(R,S) | TRANSISTOR | | |
| Q17-21 | | | 2SC1845(F,E) | TRANSISTOR | | |
| Q23 | | | 2SA992(F,E) | TRANSISTOR | | |

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KRF-V8010D/V8010DW

* New Parts

Parts without **Parts No.** are not supplied.

Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.

Teile ohne **Parts No.** werden nicht geliefert.

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| Ref. No | Add-ress | New Parts | Parts No. | Description | Desti-nation | Re-marks |
|---------|----------|-----------|---------------|------------------------|--------------|----------|
| Q24, 25 | | | 2SC1845(F,E) | TRANSISTOR | | |
| Q26-29 | | | DTC123JUA | DIGITAL TRANSISTOR | | |
| Q31 | | | 2SC2631(S,T) | TRANSISTOR | | |
| Q31 | | | 2SC3245A(F) | TRANSISTOR | | |
| Q32 | | | 2SA1123(S,T) | TRANSISTOR | | |
| Q32 | | | 2SA1285A(F) | TRANSISTOR | | |
| Q34, 35 | | | 2SC1845(F,E) | TRANSISTOR | | |
| Q36 | | | 2SA1535(Q,R) | TRANSISTOR | | |
| Q37 | | | 2SC1845(F,E) | TRANSISTOR | | |
| Q38 | | | 2SC3722K(R,S) | TRANSISTOR | | |
| Q39 | | | DTC113ZUA | DIGITAL TRANSISTOR | X1 | |
| Q40 | | | 2SC4213(B) | TRANSISTOR | X1 | |
| Q41 | | | 2SC4081(R,S) | TRANSISTOR | | |
| Q41 | | | 2SD1819A(Q,R) | TRANSISTOR | | |
| Q42 | | | 2SC3722K(R,S) | TRANSISTOR | ET1Q1 | |
| Q501 | | | 2SC4081(R,S) | TRANSISTOR | | |
| Q501 | | | 2SD1819A(Q,R) | TRANSISTOR | | |
| Q503 | | | 2SC4081(R,S) | TRANSISTOR | | |
| Q503 | | | 2SD1819A(Q,R) | TRANSISTOR | | |
| Q504 | | | 2SC4081(R,S) | TRANSISTOR | X1 | |
| Q504 | | | 2SD1819A(Q,R) | TRANSISTOR | X1 | |
| TH1 | | * | PTH9C42BD471Q | POSITIVE RESISTOR | X1 | |
| A501 | 2B | | W02-2625-05 | OPTIC RECEIVING MODULE | | |

HOW TO READ THE PARTS LIST

ABBREVIATION OF MODEL AND MASS PRODUCTION'S DESTINATIONS

| MODEL | ABB. | Australia | Canada | China | England | Europe | Germany | Korea | Malaysia |
|-------------|------|-----------|----------|--------|-------------|----------|---------|------------|----------|
| KRF-V8010D | - | X1 | - | - | T1 | E | - | - | - |
| KRF-V8010DW | - | - | - | - | - | - | - | - | - |
| MODEL | ABB. | Mexico | PX/AAFES | Russia | Scandinavia | Shanghai | USA | Other area | |
| KRF-V8010D | - | - | - | - | - | - | - | - | |
| KRF-V8010DW | - | - | - | Q1 | - | - | - | - | |

PARTS LIST

KRF-V8010D/V8010DW

L : Scandinavia K : USA P : Canada R : Mexico C : China I : Malaysia
 Y : PX(Far East, Hawaii) T : Europe E : Europe G : Germany V : China(Shanghai)
 Y : AAFES(Europe) X : Australia Q : Russia H : Korea M : Other Areas Δ indicates safety critical components.

KRF-V8010D/V8010DW

SPECIFICATIONS

For U.K., Europe and Russia

AUDIO section

Rated power output during STEREO operation

(DIN) 1 kHz, 0.7% at 4 Ω 100 W + 100 W
(IEC) 63 Hz~12.5 kHz, 0.7% at 4 Ω 100 W + 100 W
(Except for Russia)

Effective power output during SURROUND operation

FRONT (1kHz, 0.7% T.H.D. at 4 Ω one channel driven)
..... 100 W + 100 W
CENTER (1kHz, 0.7% T.H.D. at 4 Ω one channel driven)
..... 100 W
SURROUND (1kHz, 0.7% T.H.D. at 4 Ω one channel driven)
..... 100 W + 100 W

Total harmonic distortion 0.03% (1 kHz, 50W, 4 Ω)

Signal to noise ratio

PHONO (MM) 75 dB (IHF'66)
54 dB (DIN 50mW output)(Except for Russia)
CD 91 dB (IHF'66)
55 dB (DIN 50mW output)(Except for Russia)

Input sensitivity / impedance

PHONO (MM) 2.5 mV / 27 k Ω
CD 200 mV / 47 k Ω
DVD 6CH (SUBWOOFER) 200 mV / 10 k Ω

Output level / impedance

TAPE REC 200 mV / 1 k Ω
PRE OUT (CENTER, SURROUND) 1 V / 1 k Ω
PRE OUT (SUBWOOFER) 1 V / 600 Ω

Tone control

BASS ± 10 dB (at 100 Hz)
TREBLE ± 10 dB (at 10 kHz)

VIDEO section

VIDEO inputs / outputs

VIDEO (composite) 1 V_{p-p} / 75 Ω

FM tuner section

Tuning frequency range

U.K. and Europe 87.5 MHz ~ 108 MHz
Russia 87.5 MHz ~ 108 MHz,
65.0 MHz ~ 74.0 MHz

Usable sensitivity (DIN, 75 Ω)

MONO 1.2 μ V / 13.2 dBf (40 kHz DEV., S/N 26 dB)
STEREO 35 μ V / 42.1 dBf (46 kHz DEV., S/N 46 dB)

Total harmonic distortion (DIN, 1 kHz)

MONO 0.2% (65.2 dBf input)
STEREO 0.8% (65.2 dBf input)

Signal to noise ratio (DIN weighted, 1 kHz)

U.K. and Europe
MONO 65 dB (40 kHz DEV.)
STEREO 60 dB (46 kHz DEV.)
Russia
MONO 63 dB (40 kHz DEV.)
STEREO 58 dB (46 kHz DEV.)

Stereo separation (DIN, 1 kHz) 36 dB

Selectivity (DIN, ± 300 kHz) 64 dB

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

AM tuner section

Tuning frequency range 531 kHz ~ 1,602 kHz

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

..... 16 μ V / (600 μ V/m)

Signal to noise ratio (30% mod., 1 mV input) 50 dB

GENERAL

Power consumption 250 W

AC outlet

SWITCHED 2 (total 150 W max.)

Dimensions W : 440 mm

H : 144 mm

D : 400 mm

Weight (Net) 9.3 kg



1. KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.
2. Sufficient performance may not be possible at very low temperatures (0°C or less).

KRF-V8010D/V8010DW

SPECIFICATIONS

For Australia

AUDIO section

Rated power output during STEREO operation

100 watts per channel minimum RMS, both channels driven, at 8 Ω from 40 Hz to 20 kHz with no more than 0.7% total harmonic distortion.(FTC)

Effective power output during SURROUND operation

FRONT (1kHz, 10% T.H.D. at 8 Ω one channel driven)
 100 W + 100 W
 CENTER (1kHz, 10% T.H.D. at 8 Ω one channel driven)
 100 W
 SURROUND (1kHz, 10% T.H.D. at 8 Ω one channel driven)
 100 W + 100 W

Total harmonic distortion 0.03% (1 kHz, 50W, 8 Ω)

Signal to noise ratio

PHONO (MM) 75 dB (IHF'66)
 CD 91 dB (IHF'66)

Input sensitivity / impedance

PHONO (MM) 2.5 mV / 27 k Ω
 CD 200 mV / 47 k Ω
 DVD 6CH (SUBWOOFER) 200 mV / 10 k Ω

Output level / impedance

TAPE REC 200 mV / 1 k Ω
 PRE OUT (CENTER, SURROUND) 1 V / 1 k Ω
 PRE OUT (SUBWOOFER) 1 V / 600 Ω

Tone control

BASS ± 10 dB (at 100 Hz)
 TREBLE ± 10 dB (at 10 kHz)

VIDEO section

VIDEO inputs / outputs

VIDEO (composite) 1 Vp-p / 75 Ω

FM tuner section

Tuning frequency range 87.5 MHz ~ 108 MHz

Usable sensitivity (DIN, 75 Ω)

MONO 1.6 μ V / 15.2 dBf (75 kHz DEV., S/N 30 dB)
 STEREO 31.6 μ V / 41.2 dBf (75 kHz DEV., S/N 30 dB)

Total harmonic distortion (DIN, 1 kHz)

MONO 0.6% (65 dBf input)
 STEREO 0.7% (65 dBf input)

Signal to noise ratio (DIN weighted, 1 kHz)

U.K. and Europe
 MONO 75 dB (75 kHz DEV.)
 STEREO 68 dB (75 kHz DEV.)

Stereo separation (DIN, 1 kHz) 38 dB

Selectivity (DIN, ± 400 kHz) 50 dB

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

AM tuner section

Tuning frequency range 531 kHz ~ 1,602 kHz

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

..... 16 μ V / (600 μ V/m)

Signal to noise ratio (30% mod., 1 mV input) 50 dB

GENERAL

Power consumption 250 W

AC outlet

SWITCHED 1 (150 W max.)

Dimensions W : 440 mm

H : 144 mm

D : 400 mm

Weight (Net) 9.7 kg



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2. Sufficient performance may not be possible at very low temperatures (0°C or less).

KRF-V8010D/V8010DW

Note:

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

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