AUDIO VIDEO SURROUND RECEIVER

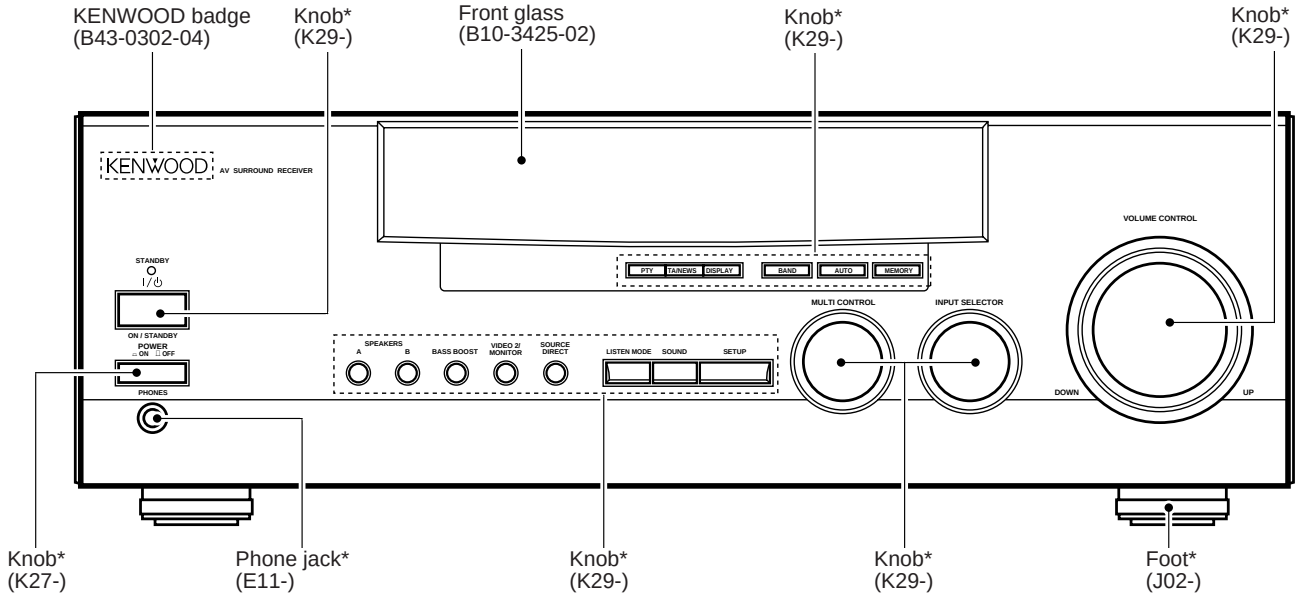
# KRF-V5020/V5020E/V5020W/V5020(S)
# V6020/V6020E/V6020W/
# V7020/V7020E/V7020W/
# VR-305/306/355

# SERVICE MANUAL

KENWOOD



**On the Block diagram, backup data, Initial state and system microprocessor, refer to the KRF-V5010 service manual (B51-5425-00)**



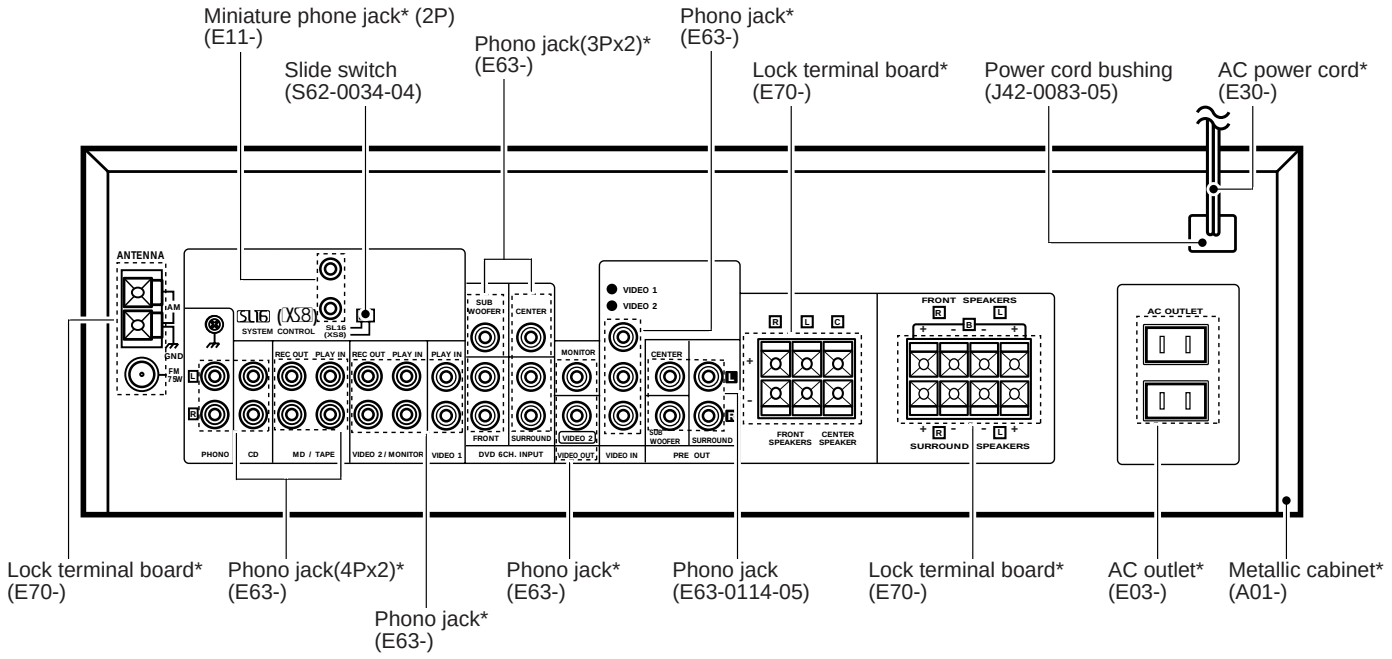




**Illustration is KRF-V5020.**

*** Refer to parts list on page 23~.**

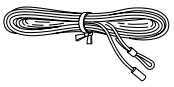
# CONTENTS / ACCESSORIES

## Contents

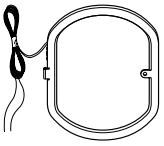


## Accessories

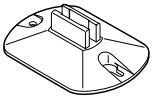
FM indoor antenna (1)
(T90-0836-05)



AM loop antenna (1) (T90-0833-05)



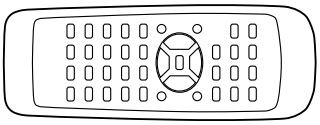
Loop antenna stand (1)
(J19-3645-05)



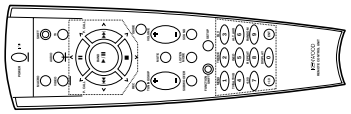
AC plug adaptor (1)
(E03-0115-05)

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

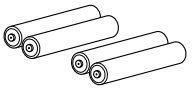
Remote control unit (1)
RC-R0710/R0711



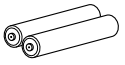
Remote control unit (1)
RC-R0508/R0608



Batteries (R03/AAA) (4)



Batteries (R06/AA) (2)



## Model name vs remote controller

| | | Remote Controller | | |
|---|---|---|---|---|
| **Model** | **Destinations** | **Parts number** | **Model name** | **Battery Cover** |
| KRF-V5020 | I5, M5, X5, Y5 | A70-1264-05 | RC-R0711 | A09-1123-08 |
| KRF-V5020 | E1 | A70-1265-05 | RC-R0710 | A09-1123-08 |
| KRF-V5020 | T5 | A70-1265-05 | RC-R0710 | A09-1123-08 |
| KRF-V5020(S) | E2 | A70-1265-05 | RC-R0710 | A09-1123-08 |
| KRF-V5020E | E3 | A70-1265-05 | RC-R0710 | A09-1123-08 |
| KRF-V5020W | Q5 | A70-1265-05 | RC-R0710 | A09-1123-08 |
| KRF-V6020 | C6, I6, M6, X6 | A70-1264-05 | RC-R0711 | A09-1123-08 |
| KRF-V6020 | E4 | A70-1275-05 | RC-R0508 | A09-0366-08 |
| KRF-V6020E | E5 | A70-1265-05 | RC-R0710 | A09-1123-08 |
| KRF-V6020W | Q6 | A70-1265-05 | RC-R0710 | A09-1123-08 |
| KRF-V7020 | E7, T7 | A70-1275-05 | RC-R0508 | A09-0366-08 |
| KRF-V7020E | E8 | A70-1275-05 | RC-R0508 | A09-0366-08 |
| KRF-V7020W | Q7 | A70-1275-05 | RC-R0508 | A09-0366-08 |
| VR-305 | K2, P2 | A70-1264-05 | RC-R0711 | A09-1123-08 |
| VR-306 | K1, P1 | A70-1264-05 | RC-R0711 | A09-1123-08 |
| VR-355 | K3, P3 | A70-1271-05 | RC-R0608 | A09-0366-08 |

***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 micro-computer and return the unit to its normal operating condition.

For U.S.A. and Canada

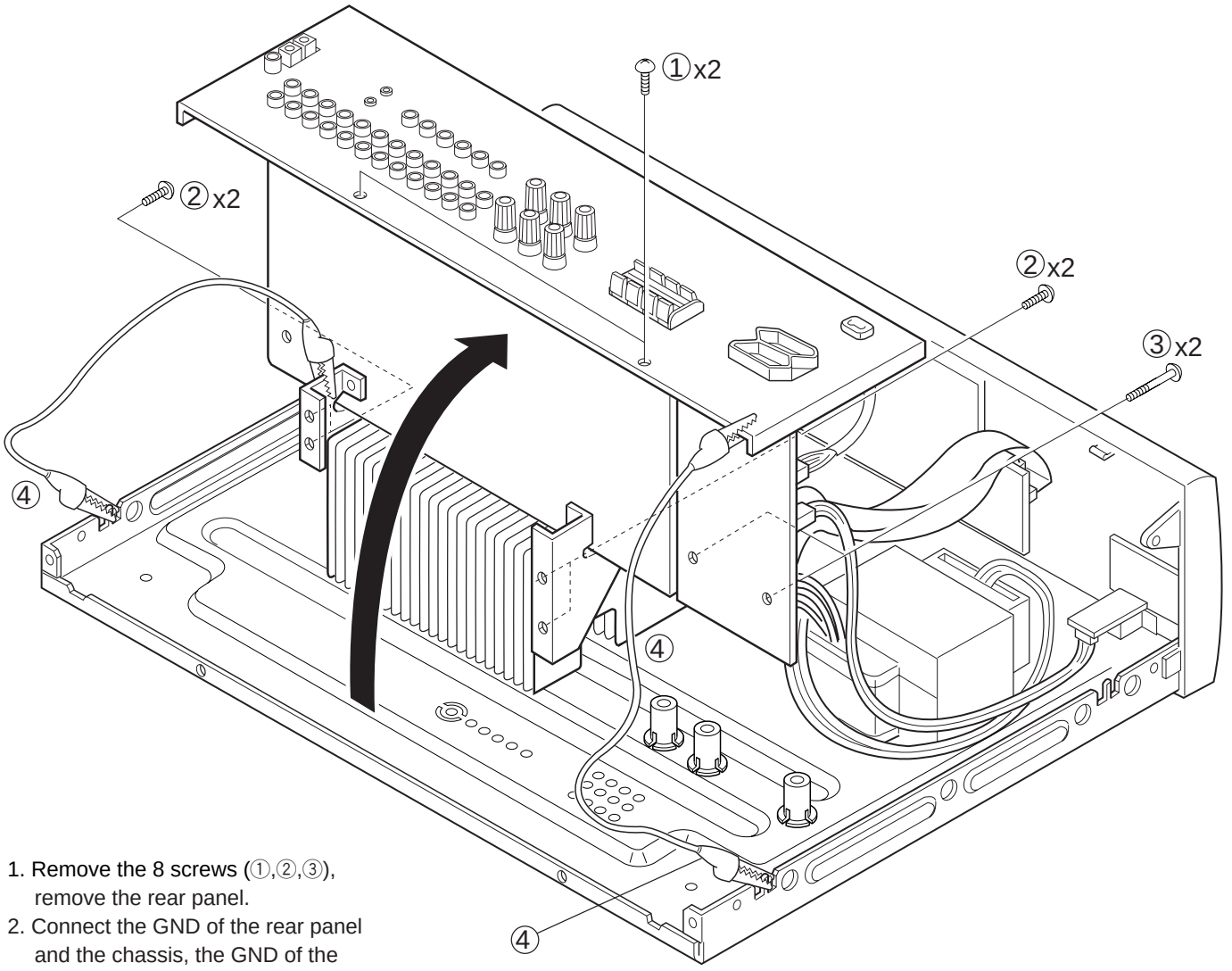
Unplug the power cord from the wall outlet, then plug it back in while holding down the POWER key.

For other countries

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.

# DISASSEMBLY FOR REPAIR

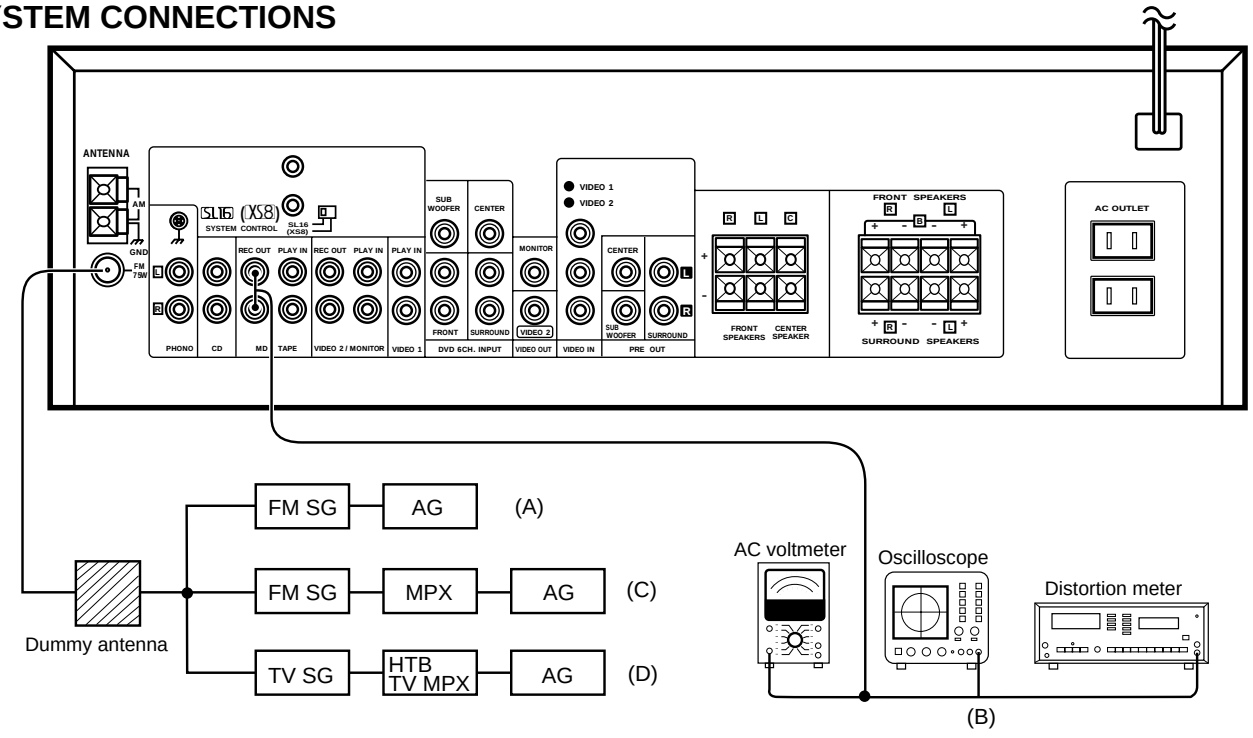



1. Remove the 8 screws (①,②,③), remove the rear panel.
2. Connect the GND of the rear panel and the chassis, the GND of the mounting hardware and the chassis with 2 alligators clip (④)

# ADJUSTMENT

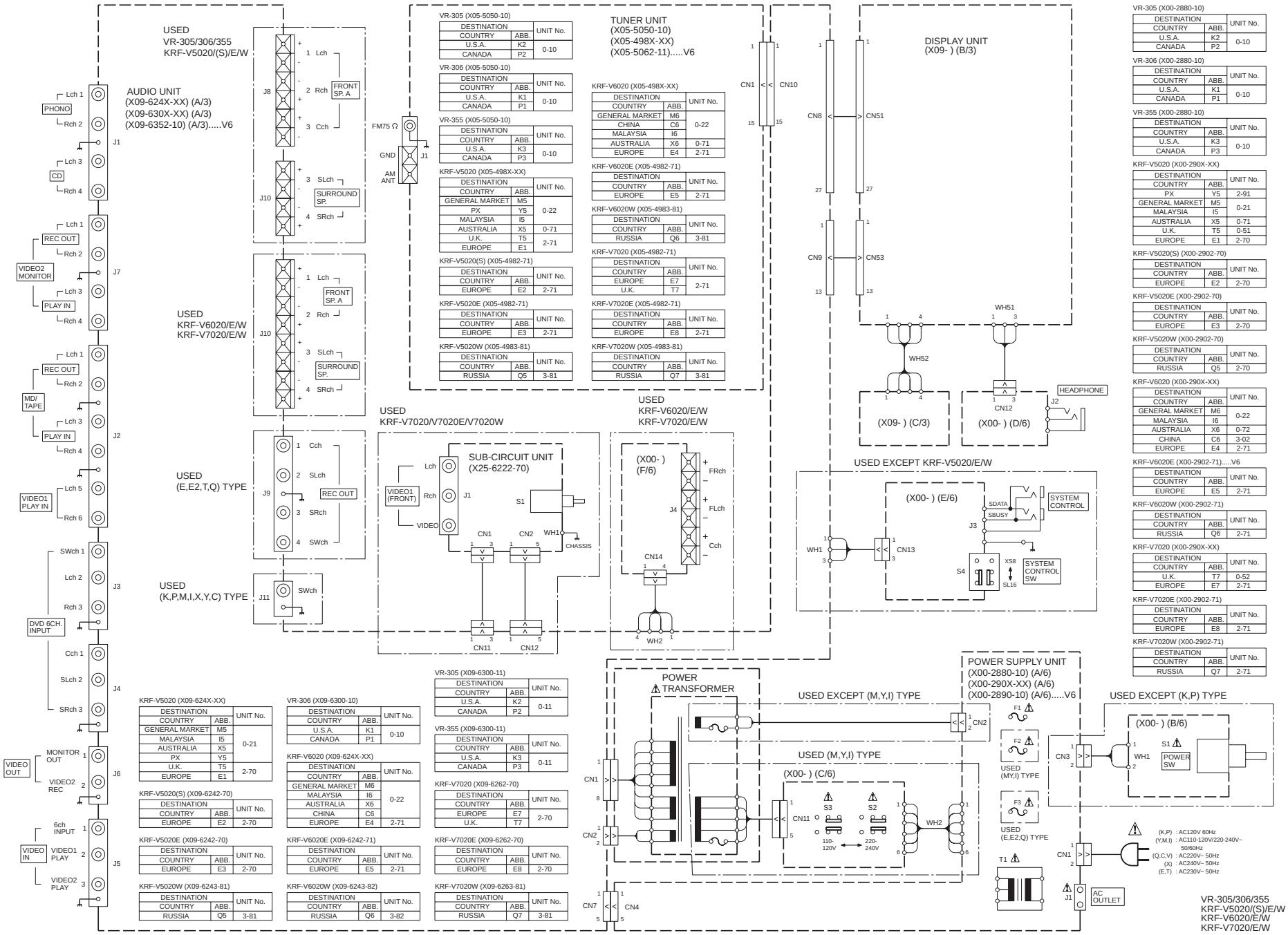
| No. | ITEM | INPUT SETTINGS | OUTPUT SETTINGS | RECEIVER SETTINGS | ALIGNMENT POINTS | ALIGN FOR | FIG. |
|---|---|---|---|---|---|---|---|
| **FM SECTION : EXCEPT E,T,Q type SELECTOR : FM** | | | | | | | |
| 1 | DISTORTION (STEREO) | (C) 98.0MHz 1kHz, ±68.25kHz dev. Selector : L or R Pilot : ±6.75kHz dev. 70dBf (ANT. input) | (B) | 98.0MHz | IFT (TUNER UNIT: A1) | Minimum distortion (L or R) | |
| 2 | TUNING LEVEL | (A) 98.0MHz MONO 1kHz, ±75kHz dev. 25dBf (ANT. input) | (B) | MONO 98.0MHz | VR1 (TUNER UNIT) | Adjust VR1 and stop at the point where ED51 (TUNED) goes on. | |
| **FM SECTION : E,T,Q type only 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 | |
| 2 | DISTORTION (MONO) | (A) 98.0MHz 1kHz, ±40kHz dev. MONO 70dBf (ANT. input) | (B) | MONO 98.0MHz | L5 (TUNER UNIT) | Minimum distortion | |
| 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) | |
| 4 | TUNING LEVEL | (A) 98.0MHz MONO 1kHz, ±40kHz dev. 29dBf (ANT. input) | (B) | MONO 98.0MHz | VR1 (TUNER UNIT) | Adjust VR1 and stop at the point where ED51 (TUNED) goes on. | |

## SYSTEM CONNECTIONS



# WIRING DIAGRAM

KRF-V5020/V6020/V7020/VR-305/306/355




VR-305 (X05-5050-10)

| DESTINATION | | UNIT No. |
|---|---|---|
| COUNTRY | ABB. | |
| U.S.A. | K2 | 0-10 |
| CANADA | P2 | |

VR-306 (X05-5050-10)

| DESTINATION | | UNIT No. |
|---|---|---|
| COUNTRY | ABB. | |
| U.S.A. | K1 | 0-10 |
| CANADA | P1 | |

VR-355 (X05-5050-10)

| DESTINATION | | UNIT No. |
|---|---|---|
| COUNTRY | ABB. | |
| U.S.A. | K3 | 0-10 |
| CANADA | P3 | |

KRF-V5020 (X05-498X-XX)

| DESTINATION | | UNIT No. |
|---|---|---|
| COUNTRY | ABB. | |
| GENERAL MARKET | M5 | 0-22 |
| MALAYSIA | I5 | |
| AUSTRALIA | X5 | 0-71 |
| U.K. | T5 | 2-71 |
| EUROPE | E1 | |

KRF-V5020(S) (X05-4982-71)

| DESTINATION | | UNIT No. |
|---|---|---|
| COUNTRY | ABB. | |
| EUROPE | E2 | 2-71 |

KRF-V5020E (X05-4982-71)

| DESTINATION | | UNIT No. |
|---|---|---|
| COUNTRY | ABB. | |
| EUROPE | E3 | 2-71 |

KRF-V5020W (X05-4983-81)

| DESTINATION | | UNIT No. |
|---|---|---|
| COUNTRY | ABB. | |
| RUSSIA | Q5 | 3-81 |

KRF-V6020 (X05-498X-XX)

| DESTINATION | | UNIT No. |
|---|---|---|
| COUNTRY | ABB. | |
| GENERAL MARKET | M6 | 0-22 |
| CHINA | C6 | |
| MALAYSIA | I6 | |
| AUSTRALIA | X6 | 0-71 |
| EUROPE | E4 | 2-71 |

KRF-V6020E (X05-4982-71)

| DESTINATION | | UNIT No. |
|---|---|---|
| COUNTRY | ABB. | |
| EUROPE | E5 | 2-71 |

KRF-V6020W (X05-4983-81)

| DESTINATION | | UNIT No. |
|---|---|---|
| COUNTRY | ABB. | |
| RUSSIA | Q6 | 3-81 |

KRF-V7020 (X05-4982-71)

| DESTINATION | | UNIT No. |
|---|---|---|
| COUNTRY | ABB. | |
| EUROPE | E7 | 2-71 |
| U.K. | T7 | |

KRF-V7020E (X05-4982-71)

| DESTINATION | | UNIT No. |
|---|---|---|
| COUNTRY | ABB. | |
| EUROPE | E8 | 2-71 |

KRF-V7020W (X05-4983-81)

| DESTINATION | | UNIT No. |
|---|---|---|
| COUNTRY | ABB. | |
| RUSSIA | Q7 | 3-81 |

KRF-V5020 (X09-624X-XX)

| DESTINATION | | UNIT No. |
|---|---|---|
| COUNTRY | ABB. | |
| GENERAL MARKET | M5 | 0-21 |
| MALAYSIA | I5 | |
| AUSTRALIA | X5 | |
| PX | Y5 | |
| U.K. | T5 | 2-70 |
| EUROPE | E1 | |

KRF-V5020(S) (X09-6242-70)

| DESTINATION | | UNIT No. |
|---|---|---|
| COUNTRY | ABB. | |
| EUROPE | E2 | 2-70 |

KRF-V5020E (X09-6242-70)

| DESTINATION | | UNIT No. |
|---|---|---|
| COUNTRY | ABB. | |
| EUROPE | E3 | 2-70 |

KRF-V5020W (X09-6243-81)

| DESTINATION | | UNIT No. |
|---|---|---|
| COUNTRY | ABB. | |
| RUSSIA | Q5 | 3-81 |

VR-306 (X09-6300-10)

| DESTINATION | | UNIT No. |
|---|---|---|
| COUNTRY | ABB. | |
| U.S.A. | K1 | 0-10 |
| CANADA | P1 | |

KRF-V6020 (X09-624X-XX)

| DESTINATION | | UNIT No. |
|---|---|---|
| COUNTRY | ABB. | |
| GENERAL MARKET | M6 | 0-22 |
| MALAYSIA | I6 | |
| AUSTRALIA | X6 | |
| CHINA | C6 | |
| EUROPE | E4 | 2-71 |

KRF-V6020E (X09-6242-71)

| DESTINATION | | UNIT No. |
|---|---|---|
| COUNTRY | ABB. | |
| EUROPE | E5 | 2-71 |

KRF-V6020W (X09-6243-82)

| DESTINATION | | UNIT No. |
|---|---|---|
| COUNTRY | ABB. | |
| RUSSIA | Q6 | 3-82 |

VR-305 (X09-6300-11)

| DESTINATION | | UNIT No. |
|---|---|---|
| COUNTRY | ABB. | |
| U.S.A. | K2 | 0-11 |
| CANADA | P2 | |

VR-355 (X09-6300-11)

| DESTINATION | | UNIT No. |
|---|---|---|
| COUNTRY | ABB. | |
| U.S.A. | K3 | 0-11 |
| CANADA | P3 | |

KRF-V7020 (X09-6262-70)

| DESTINATION | | UNIT No. |
|---|---|---|
| COUNTRY | ABB. | |
| EUROPE | E7 | 2-70 |
| U.K. | T7 | |

KRF-V7020E (X09-6262-70)

| DESTINATION | | UNIT No. |
|---|---|---|
| COUNTRY | ABB. | |
| EUROPE | E8 | 2-70 |

KRF-V7020W (X09-6263-81)

| DESTINATION | | UNIT No. |
|---|---|---|
| COUNTRY | ABB. | |
| RUSSIA | Q7 | 3-81 |

VR-305 (X00-2880-10)

| DESTINATION | | UNIT No. |
|---|---|---|
| COUNTRY | ABB. | |
| U.S.A. | K2 | 0-10 |
| CANADA | P2 | |

VR-306 (X00-2880-10)

| DESTINATION | | UNIT No. |
|---|---|---|
| COUNTRY | ABB. | |
| U.S.A. | K1 | 0-10 |
| CANADA | P1 | |

VR-355 (X00-2880-10)

| DESTINATION | | UNIT No. |
|---|---|---|
| COUNTRY | ABB. | |
| U.S.A. | K3 | 0-10 |
| CANADA | P3 | |

KRF-V5020 (X00-290X-XX)

| DESTINATION | | UNIT No. |
|---|---|---|
| COUNTRY | ABB. | |
| PX | Y5 | 2-91 |
| GENERAL MARKET | M5 | 0-21 |
| MALAYSIA | I5 | |
| AUSTRALIA | X5 | 0-71 |
| U.K. | T5 | 0-51 |
| EUROPE | E1 | 2-70 |

KRF-V5020(S) (X00-2902-70)

| DESTINATION | | UNIT No. |
|---|---|---|
| COUNTRY | ABB. | |
| EUROPE | E2 | 2-70 |

KRF-V5020E (X00-2902-70)

| DESTINATION | | UNIT No. |
|---|---|---|
| COUNTRY | ABB. | |
| EUROPE | E3 | 2-70 |

KRF-V5020W (X00-2902-70)

| DESTINATION | | UNIT No. |
|---|---|---|
| COUNTRY | ABB. | |
| RUSSIA | Q5 | 2-70 |

KRF-V6020 (X00-290X-XX)

| DESTINATION | | UNIT No. |
|---|---|---|
| COUNTRY | ABB. | |
| GENERAL MARKET | M6 | 0-22 |
| MALAYSIA | I6 | |
| AUSTRALIA | X6 | 0-72 |
| CHINA | C6 | 3-02 |
| EUROPE | E4 | 2-71 |

KRF-V6020E (X00-2902-71).....V6

| DESTINATION | | UNIT No. |
|---|---|---|
| COUNTRY | ABB. | |
| EUROPE | E5 | 2-71 |

KRF-V6020W (X00-2902-71)

| DESTINATION | | UNIT No. |
|---|---|---|
| COUNTRY | ABB. | |
| RUSSIA | Q6 | 2-71 |

KRF-V7020 (X00-290X-XX)

| DESTINATION | | UNIT No. |
|---|---|---|
| COUNTRY | ABB. | |
| U.K. | T7 | 0-52 |
| EUROPE | E7 | 2-71 |

KRF-V7020E (X00-2902-71)

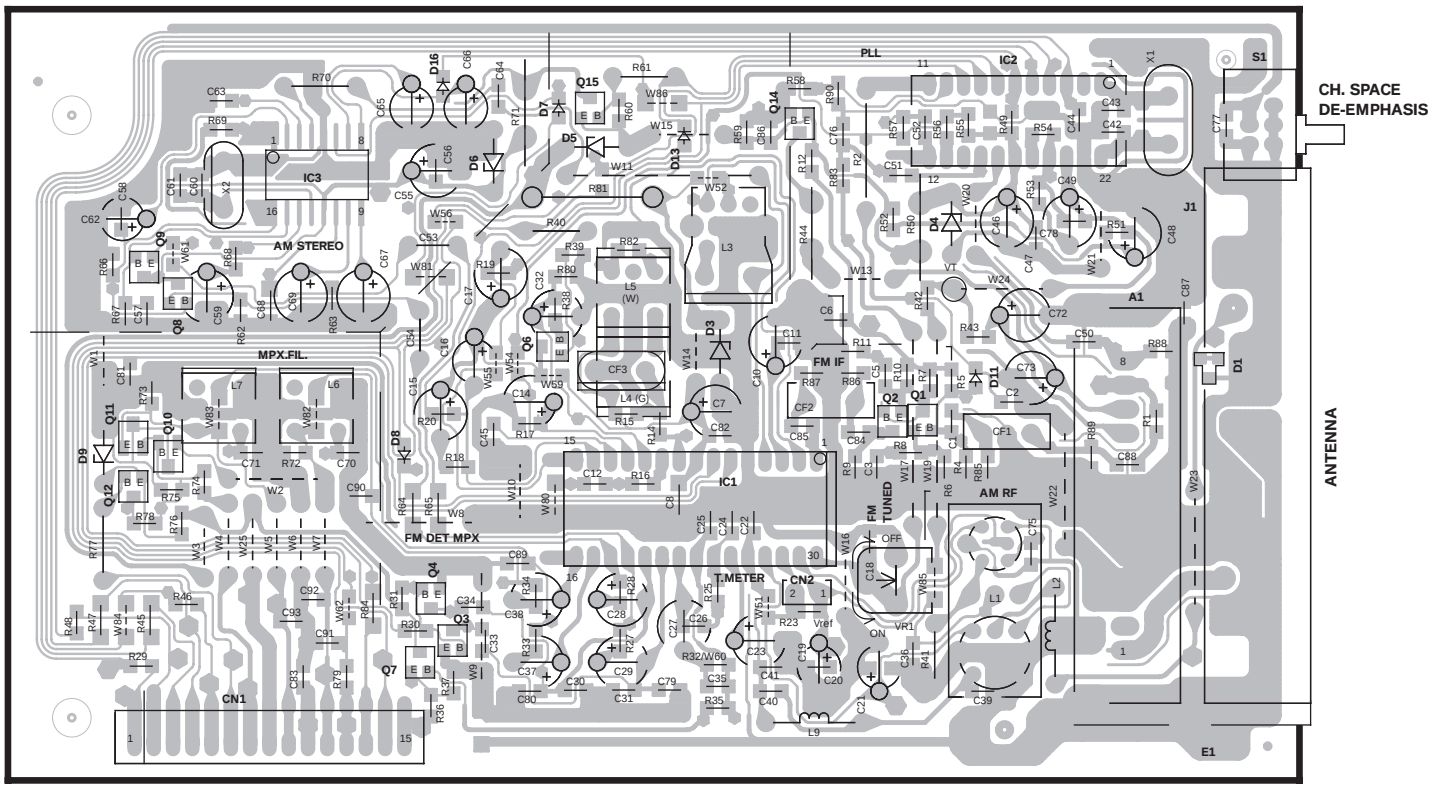
| DESTINATION | | UNIT No. |
|---|---|---|
| COUNTRY | ABB. | |
| EUROPE | E8 | 2-71 |

KRF-V7020W (X00-2902-71)

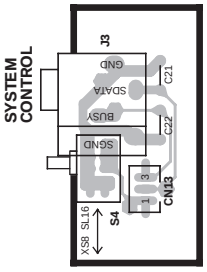
| DESTINATION | | UNIT No. |
|---|---|---|
| COUNTRY | ABB. | |
| RUSSIA | Q7 | 2-71 |

# PC BOARD(Component side view)

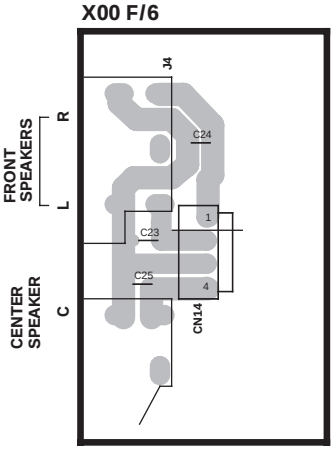
**X05-4980-10/X05-5050-10/X05-5062-11**



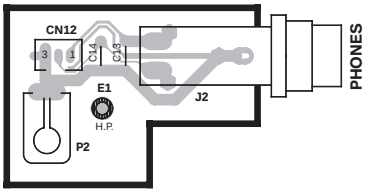

**X00 E/6**



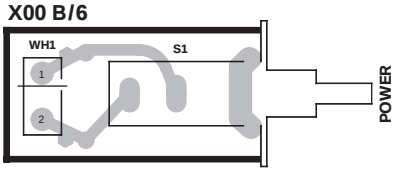

**X00 F/6**



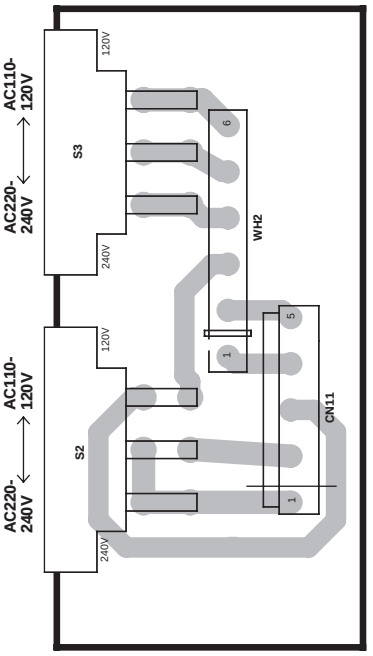

**X00 D/6**



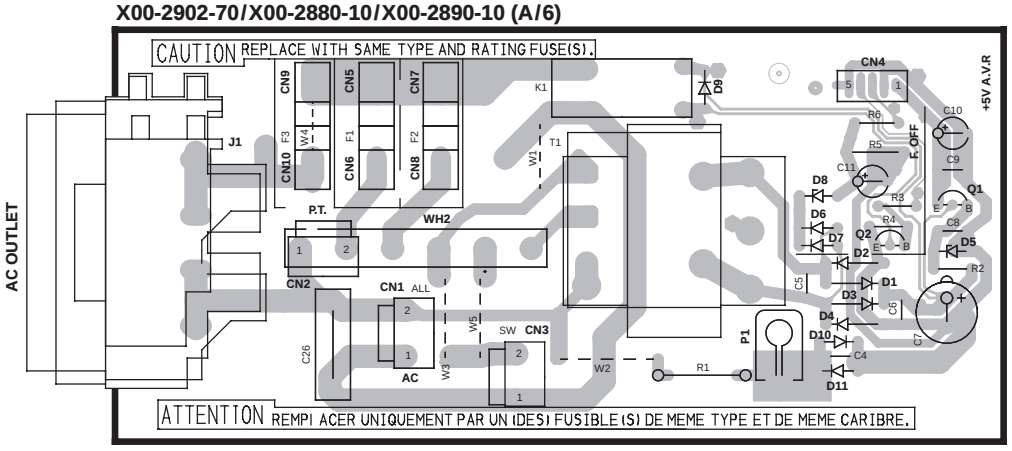

**X00 B/6**




**X00 C/6**

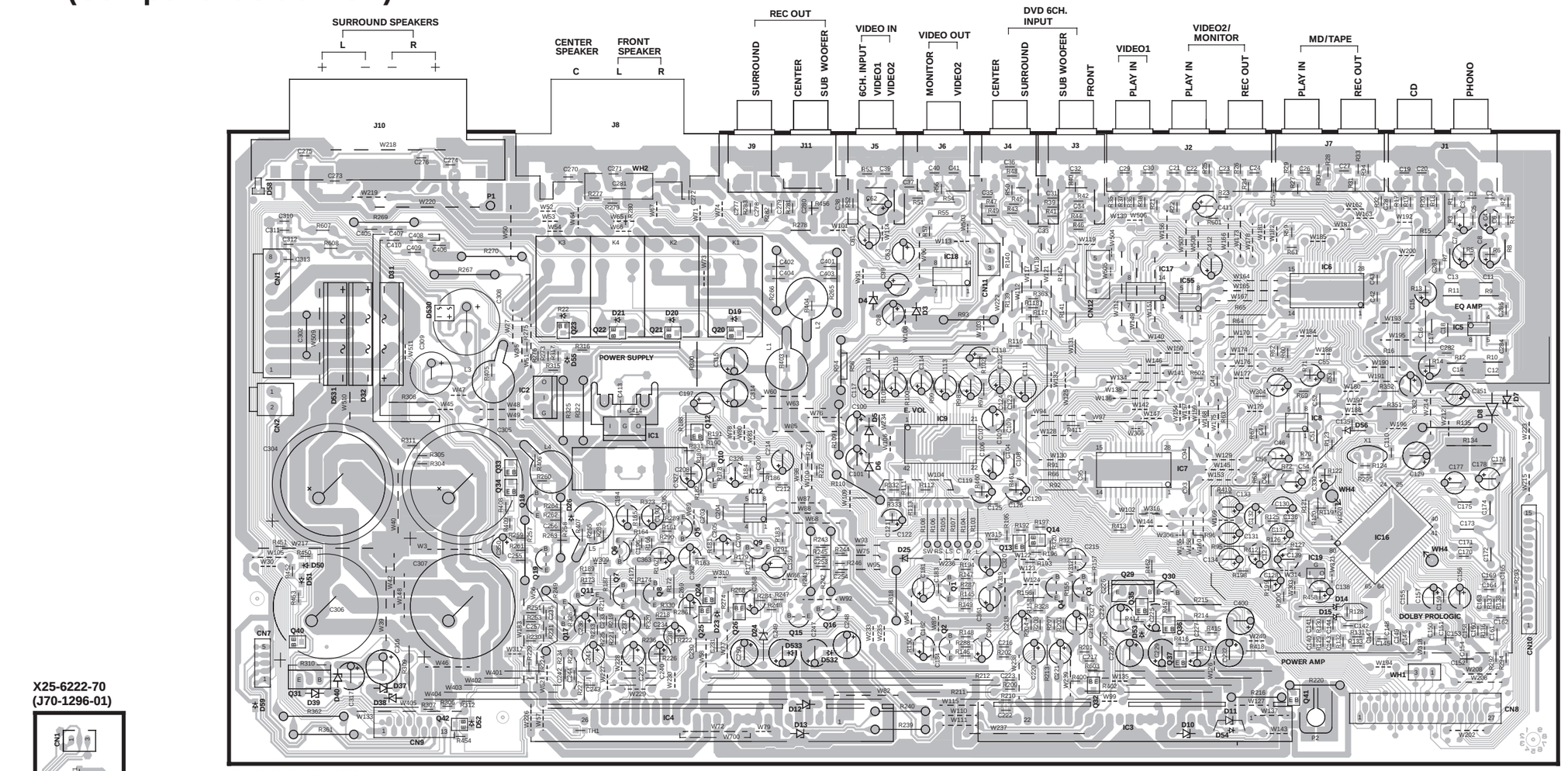



**X00-2902-70/X00-2880-10/X00-2890-10 (A/6)**



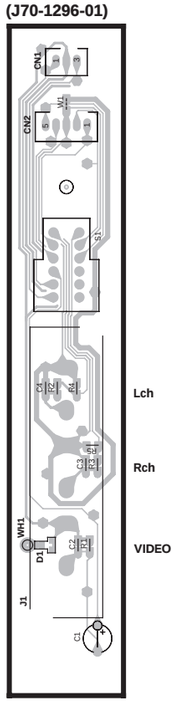

Refer to the schematic diagram for the value of resistors and capacitors.

# PC BOARD(Component side view)

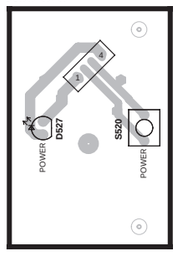



X09-6242-70/X09-6352-10 (A/3)

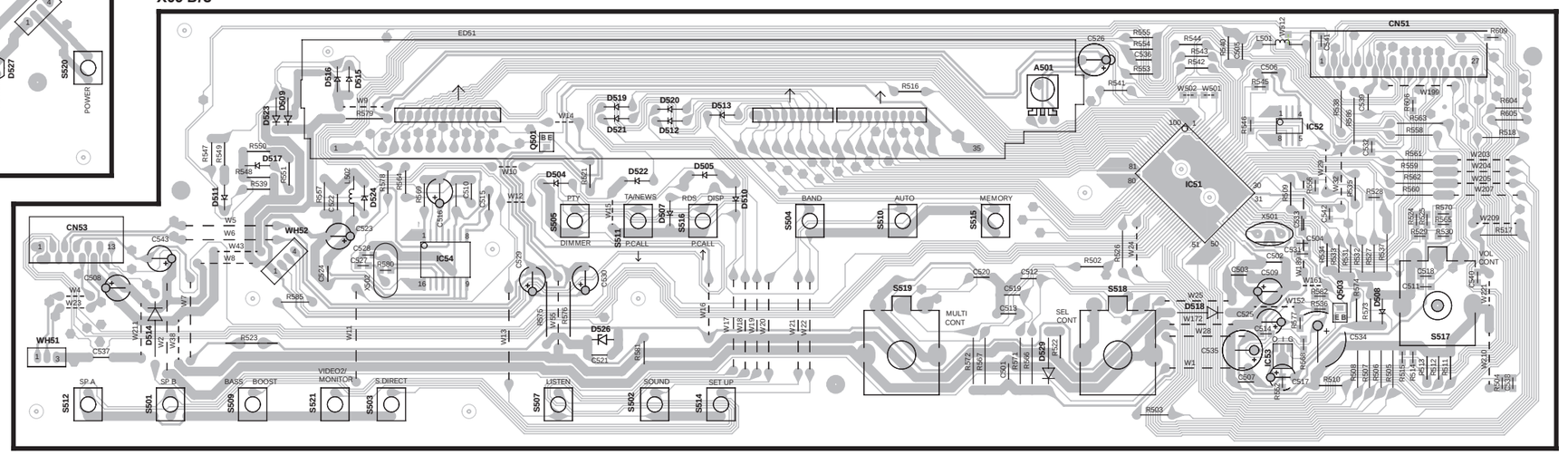
X25-6222-70
(J70-1296-01)




X09 C/3




X09 B/3




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

A B C D E F G H I J

1 2 3 4 5 6 7

VR-355 (X05-5050-10)

| DESTINATION | | UNIT No. | Ⓐ Ⓑ Ⓒ Ⓕ | R8, 11 | R14 | R15,36, 82 | R23 | R25 | R27, 28 | R32 | R72, 73 | C8,35,74, 89,90 | C25 | C26 | C30, 31 | C42 | C43 | C70,71,79, 80,82 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | | | | | |
| U.S.A. | K3 | 0-10 | NO | 33 | 270 | NO | 3.3K | 18K | 7.5K | YES | 15K | YES | 470P | 0.022 | 0.033 | 27P | 22P | NO |
| CANADA | P3 | | | | | | | | | | | | | | | | | |

| DESTINATION | | A1 | CF1,2 | CF3 | IC1 | L4,5, 6,7 | L9 | CN2 | W56 | W60 | W82, 83 | E1 | J1 | X1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | |
| U.S.A. | K3 | W02-2622 | L72-0596 (MS2) | YES | LA-1838 | NO | L40-1001-82 | NO | NO | NO | YES | F10-1108 | E70-0080-05 | L77-2187 |
| CANADA | P3 | | | | | | | | | | | | | |

KRF-V5020 (X05-498X-XX)

| DESTINATION | | UNIT No. | Ⓐ Ⓒ Ⓕ | Ⓑ | R8 | R11 | R14 | R15, 36,82 | R23 | R25 | R27, 28 | R32 | R72, 73 | C8,35, 89,90 | C25 | C26 | C30, 31 | C42 | C43 | C70,71, 79,80,82 | C74 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | | | | | | | | |
| GENERAL MARKET | M5 | 0-22 | NO | YES | 33 | 33 | 270 | NO | 3.3K | 18K | 7.5K | YES | 8.2K | YES | 470P | 0.022 | 0.022 | 12P | 10P | NO | NO |
| PX | Y5 | | | | | | | | | | | | | | | | | | | | |
| MALAYSIA | I5 | | | | | | | | | | | | | | | | | | | | |
| AUSTRALIA | X5 | 0-71 | | NO | | | | | | | | | | | | | | | | | |
| U.K. | T5 | 2-71 | YES | | 10 | 22 | 100 | YES | 15K | 27K | 4.3K | NO | 3.9K | NO | 180P | 0.018 | | | | YES | |
| EUROPE | E1 | | | | | | | | | | | | | | | | | | | | |

| DESTINATION | | A1 | CF1,2 | CF3 | IC1 | L4,5, 6,7 | L9 | CN2 | W56 | W60 | W82, 83 | E1 | J1 | X1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | |
| GENERAL MARKET | M5 | W02-2622 | L72-0531 (MA5) | YES | LA-1838 | NO | L40-1001-17 | NO | YES | NO | YES | F10-1129 | E70-0321-05 E70-0052-05 | L77-2232 |
| PX | Y5 | | | | | | | | | | | | | |
| MALAYSIA | I5 | | | | | | | | | | | | | |
| AUSTRALIA | X5 | | | | | | | | | | | | | |
| U.K. | T5 | W02-2584 | L72-0536 (MS3) | NO | LA-1837 | YES | | YES | NO | YES | NO | F10-1128 | | |
| EUROPE | E1 | | | | | | | | | | | | | |

KRF-V5020(S) (X05-4982-71)

| DESTINATION | | UNIT No. | Ⓐ Ⓒ Ⓕ | Ⓑ | R8 | R11 | R14 | R15, 36,82 | R23 | R25 | R27, 28 | R32 | R72, 73 | C8,35,74, 89,90 | C25 | C26 | C30, 31 | C42 | C43 | C70,71, 79,80,82 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | | | | | | | |
| EUROPE | E2 | 2-71 | YES | NO | 10 | 22 | 100 | YES | 15K | 27K | 4.3K | NO | 3.9K | NO | 180P | 0.018 | 0.022 | 12P | 10P | YES |

| DESTINATION | | A1 | CF1,2 | CF3 | IC1 | L4,5, 6,7 | L9 | CN2 | W56, 82,83 | W60 | E1 | J1 | X1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | |
| EUROPE | E2 | W02-2584 | L72-0536 (MS3) | NO | LA-1837 | YES | L40-1001-17 | YES | NO | YES | F10-1128 | E70-0321-05 E70-0052-05 | L77-2232 |

KRF-V5020E (X05-4982-71)

| DESTINATION | | UNIT No. | Ⓐ Ⓒ Ⓕ | Ⓑ | R8 | R11 | R14 | R15, 36,82 | R23 | R25 | R27, 28 | R32 | R72, 73 | C8,35,74, 89,90 | C25 | C26 | C30, 31 | C42 | C43 | C70,71, 79,80,82 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | | | | | | | |
| EUROPE | E3 | 2-71 | YES | NO | 10 | 22 | 100 | YES | 15K | 27K | 4.3K | NO | 3.9K | NO | 180P | 0.018 | 0.022 | 12P | 10P | YES |

| DESTINATION | | A1 | CF1,2 | CF3 | IC1 | L4,5, 6,7 | L9 | CN2 | W56, 82,83 | W60 | E1 | J1 | X1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | |
| EUROPE | E3 | W02-2584 | L72-0536 (MS3) | NO | LA-1837 | YES | L40-1001-17 | YES | NO | YES | F10-1128 | E70-0321-05 E70-0052-05 | L77-2232 |

KRF-V5020W (X05-4983-81)

| DESTINATION | | UNIT No. | Ⓐ Ⓒ Ⓕ | Ⓑ | R8 | R11 | R14 | R15, 36,82 | R23 | R25 | R27, 28 | R32 | R72, 73 | C8,35,74, 89,90 | C25 | C26 | C30, 31 | C42 | C43 | C70,71, 79,80,82 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | | | | | | | |
| RUSSIA | Q5 | 3-81 | YES | NO | 10 | 22 | 100 | YES | 15K | 27K | 4.3K | NO | 3.9K | NO | 180P | 0.018 | 0.022 | 12P | 10P | YES |

| DESTINATION | | A1 | CF1,2 | CF3 | IC1 | L4,5, 6,7 | L9 | CN2 | W56, 82,83 | W60 | E1 | J1 | X1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | |
| RUSSIA | Q5 | W02-2586 | L72-0536 (MS3) | NO | LA-1837 | YES | L40-1001-17 | YES | NO | YES | F10-1128 | E70-0321-05 E70-0052-05 | L77-2232 |

KRF-V6020 (X05-498X-XX)

| DESTINATION | | UNIT No. | Ⓐ Ⓒ Ⓕ | Ⓑ | R8 | R11 | R14 | R15, 36,82 | R23 | R25 | R27, 28 | R32 | R72, 73 | C8,35, 89,90 | C25 | C26 | C30, 31 | C42 | C43 | C70,71, 79,80,82 | C74 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | | | | | | | | |
| GENERAL MARKET | M6 | 0-22 | NO | YES | 33 | 33 | 270 | NO | 3.3K | 18K | 7.5K | YES | 8.2K | YES | 470P | 0.022 | 0.022 | 12P | 10P | NO | NO |
| CHINA | C6 | | | | | | | | | | | | | | | | | | | | |
| MALAYSIA | I6 | | | | | | | | | | | | | | | | | | | | |
| AUSTRALIA | X6 | 0-71 | | NO | | | | | | | | | | | | | | | | | |
| EUROPE | E4 | 2-71 | YES | | 10 | 22 | 100 | YES | 15K | 27K | 4.3K | NO | 3.9K | NO | 180P | 0.018 | | | | YES | |

| DESTINATION | | A1 | CF1,2 | CF3 | IC1 | L4,5, 6,7 | L9 | CN2 | W56 | W60 | W82, 83 | E1 | J1 | X1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | |
| GENERAL MARKET | M6 | W02-2622 | L72-0531 (MA5) | YES | LA-1838 | NO | L40-1001-17 | NO | YES | NO | YES | F10-1129 | E70-0321-05 E70-0052-05 | L77-2232 |
| CHINA | C6 | | | | | | | | | | | | | |
| MALAYSIA | I6 | | | | | | | | | | | | | |
| AUSTRALIA | X6 | | | | | | | | | | | | | |
| EUROPE | E4 | W02-2584 | L72-0536 (MS3) | NO | LA-1837 | YES | | YES | NO | YES | NO | F10-1128 | | |

KRF-V6020(X05-5062-11)

| COUNTRY | ABB. | Ⓐ Ⓒ Ⓕ | Ⓑ | C8 | C25 | C26 | C30,31 | C42 | C43 | C70,71,74,79,80,82 | C89,90 | CN2 | J1 | E1 | CF1,2 | CF3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SHANGHAI | V6 | NO | YES | YES | 470P | 0.022 | YES | 27P | 22P | NO | YES | NO | E70-0080 | YES | L72-0531 | YES |

| COUNTRY | ABB. | L4-7 | X1 | R8,11 | R14 | R15 | R23 | R25 | R27,28 | R32 | R72,73 | R80,82 | W53,60 | W56,82,83 | D13 | IC1 | A1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SHANGHAI | V6 | NO | L77-2187 | 33 | 270 | NO | 3.3K | 1.8K | 7.5K | YES | 8.2K | NO | NO | YES | NO | LA1838 | W02-2622 |

KRF-V6020E (X05-4982-71)

| DESTINATION | | UNIT No. | Ⓐ Ⓒ Ⓕ | Ⓑ | R8 | R11 | R14 | R15, 36,82 | R23 | R25 | R27, 28 | R32 | R72, 73 | C8,35,74, 89,90 | C25 | C26 | C30, 31 | C42 | C43 | C70,71, 79,80,82 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | | | | | | | |
| EUROPE | E5 | 2-71 | YES | NO | 10 | 22 | 100 | YES | 15K | 27K | 4.3K | NO | 3.9K | NO | 180P | 0.018 | 0.022 | 12P | 10P | YES |

| DESTINATION | | A1 | CF1,2 | CF3 | IC1 | L4,5, 6,7 | L9 | CN2 | W56, 82,83 | W60 | E1 | J1 | X1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | |
| EUROPE | E5 | W02-2584 | L72-0536 (MS3) | NO | LA-1837 | YES | L40-1001-17 | YES | NO | YES | F10-1128 | E70-0321-05 E70-0052-05 | L77-2232 |

KRF-V6020W (X05-4983-81)

| DESTINATION | | UNIT No. | Ⓐ Ⓒ Ⓕ | Ⓑ | R8 | R11 | R14 | R15, 36,82 | R23 | R25 | R27, 28 | R32 | R72, 73 | C8,35,74, 89,90 | C25 | C26 | C30, 31 | C42 | C43 | C70,71, 79,80,82 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | | | | | | | |
| RUSSIA | Q6 | 3-81 | YES | NO | 10 | 22 | 100 | YES | 15K | 27K | 4.3K | NO | 3.9K | NO | 180P | 0.018 | 0.022 | 12P | 10P | YES |

| DESTINATION | | A1 | CF1,2 | CF3 | IC1 | L4,5, 6,7 | L9 | CN2 | W56, 82,83 | W60 | E1 | J1 | X1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | |
| RUSSIA | Q6 | W02-2586 | L72-0536 (MS3) | NO | LA-1837 | YES | L40-1001-17 | YES | NO | YES | F10-1128 | E70-0321-05 E70-0052-05 | L77-2232 |

KRF-V7020 (X05-4982-71)

| DESTINATION | | UNIT No. | Ⓐ Ⓒ Ⓕ | Ⓑ | R8 | R11 | R14 | R15, 36,82 | R23 | R25 | R27, 28 | R32 | R72, 73 | C8,35,74, 89,90 | C25 | C26 | C30, 31 | C42 | C43 | C70,71, 79,80,82 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | | | | | | | |
| EUROPE | E7 | 2-71 | YES | NO | 10 | 22 | 100 | YES | 15K | 27K | 4.3K | NO | 3.9K | NO | 180P | 0.018 | 0.022 | 12P | 10P | YES |
| U.K. | T7 | | | | | | | | | | | | | | | | | | | |

| DESTINATION | | A1 | CF1,2 | CF3 | IC1 | L4,5, 6,7 | L9 | CN2 | W56, 82,83 | W60 | E1 | J1 | X1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | |
| EUROPE | E7 | W02-2584 | L72-0536 (MS3) | NO | LA-1837 | YES | L40-1001-17 | YES | NO | YES | F10-1128 | E70-0321-05 E70-0052-05 | L77-2232 |
| U.K. | T7 | | | | | | | | | | | | |

KRF-V7020E (X05-4982-71)

| DESTINATION | | UNIT No. | Ⓐ Ⓒ Ⓕ | Ⓑ | R8 | R11 | R14 | R15, 36,82 | R23 | R25 | R27, 28 | R32 | R72, 73 | C8,35,74, 89,90 | C25 | C26 | C30, 31 | C42 | C43 | C70,71, 79,80,82 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | | | | | | | |
| EUROPE | E8 | 2-71 | YES | NO | 10 | 22 | 100 | YES | 15K | 27K | 4.3K | NO | 3.9K | NO | 180P | 0.018 | 0.022 | 12P | 10P | YES |

| DESTINATION | | A1 | CF1,2 | CF3 | IC1 | L4,5, 6,7 | L9 | CN2 | W56, 82,83 | W60 | E1 | J1 | X1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | |
| EUROPE | E8 | W02-2584 | L72-0536 (MS3) | NO | LA-1837 | YES | L40-1001-17 | YES | NO | YES | F10-1128 | E70-0321-05 E70-0052-05 | L77-2232 |

KRF-V7020W (X05-4983-81)

| DESTINATION | | UNIT No. | Ⓐ Ⓒ Ⓕ | Ⓑ | R8 | R11 | R14 | R15, 36,82 | R23 | R25 | R27, 28 | R32 | R72, 73 | C8,35,74, 89,90 | C25 | C26 | C30, 31 | C42 | C43 | C70,71, 79,80,82 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | | | | | | | |
| RUSSIA | Q7 | 3-81 | YES | NO | 10 | 22 | 100 | YES | 15K | 27K | 4.3K | NO | 3.9K | NO | 180P | 0.018 | 0.022 | 12P | 10P | YES |

| DESTINATION | | A1 | CF1,2 | CF3 | IC1 | L4,5, 6,7 | L9 | CN2 | W56, 82,83 | W60 | E1 | J1 | X1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | |
| RUSSIA | Q7 | W02-2586 | L72-0536 (MS3) | NO | LA-1837 | YES | L40-1001-17 | YES | NO | YES | F10-1128 | E70-0321-05 E70-0052-05 | L77-2232 |

VR-305 (X05-5050-10)

| DESTINATION | | UNIT No. | Ⓐ Ⓑ Ⓒ Ⓕ | R8, 11 | R14 | R15,36, 82 | R23 | R25 | R27, 28 | R32 | R72, 73 | C8,35,74, 89,90 | C25 | C26 | C30, 31 | C42 | C43 | C70,71,79, 80,82 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | | | | | |
| U.S.A. | K2 | 0-10 | NO | 33 | 270 | NO | 3.3K | 18K | 7.5K | YES | 15K | YES | 470P | 0.022 | 0.033 | 27P | 22P | NO |
| CANADA | P2 | | | | | | | | | | | | | | | | | |

| DESTINATION | | A1 | CF1,2 | CF3 | IC1 | L4,5 6,7 | L9 | CN2 | W56 | W60 | W82, 83 | E1 | J1 | X1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | |
| U.S.A. | K2 | W02-2622 | L72-0596 (MS2) | YES | LA-1838 | NO | L40-1001-82 | NO | NO | NO | YES | F10-1108 | E70-0080-05 | L77-2187 |
| CANADA | P2 | | | | | | | | | | | | | |

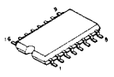
VR-306 (X05-5050-10)

| DESTINATION | | UNIT No. | Ⓐ Ⓑ Ⓒ Ⓕ | R8, 11 | R14 | R15,36, 82 | R23 | R25 | R27, 28 | R32 | R72, 73 | C8,35,74, 89,90 | C25 | C26 | C30, 31 | C42 | C43 | C70,71,79, 80,82 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | | | | | |
| U.S.A. | K1 | 0-10 | NO | 33 | 270 | NO | 3.3K | 18K | 7.5K | YES | 15K | YES | 470P | 0.022 | 0.033 | 27P | 22P | NO |
| CANADA | P1 | | | | | | | | | | | | | | | | | |

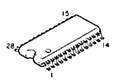
| DESTINATION | | A1 | CF1,2 | CF3 | IC1 | L4,5 6,7 | L9 | CN2 | W56 | W60 | W82, 83 | E1 | J1 | X1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | |
| U.S.A. | K1 | W02-2622 | L72-0596 (MS2) | YES | LA-1838 | NO | L40-1001-82 | NO | NO | NO | YES | F10-1108 | E70-0080-05 | L77-2187 |
| CANADA | P1 | | | | | | | | | | | | | |

**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.

SAA6579T



TC9162AF
TC9164AF



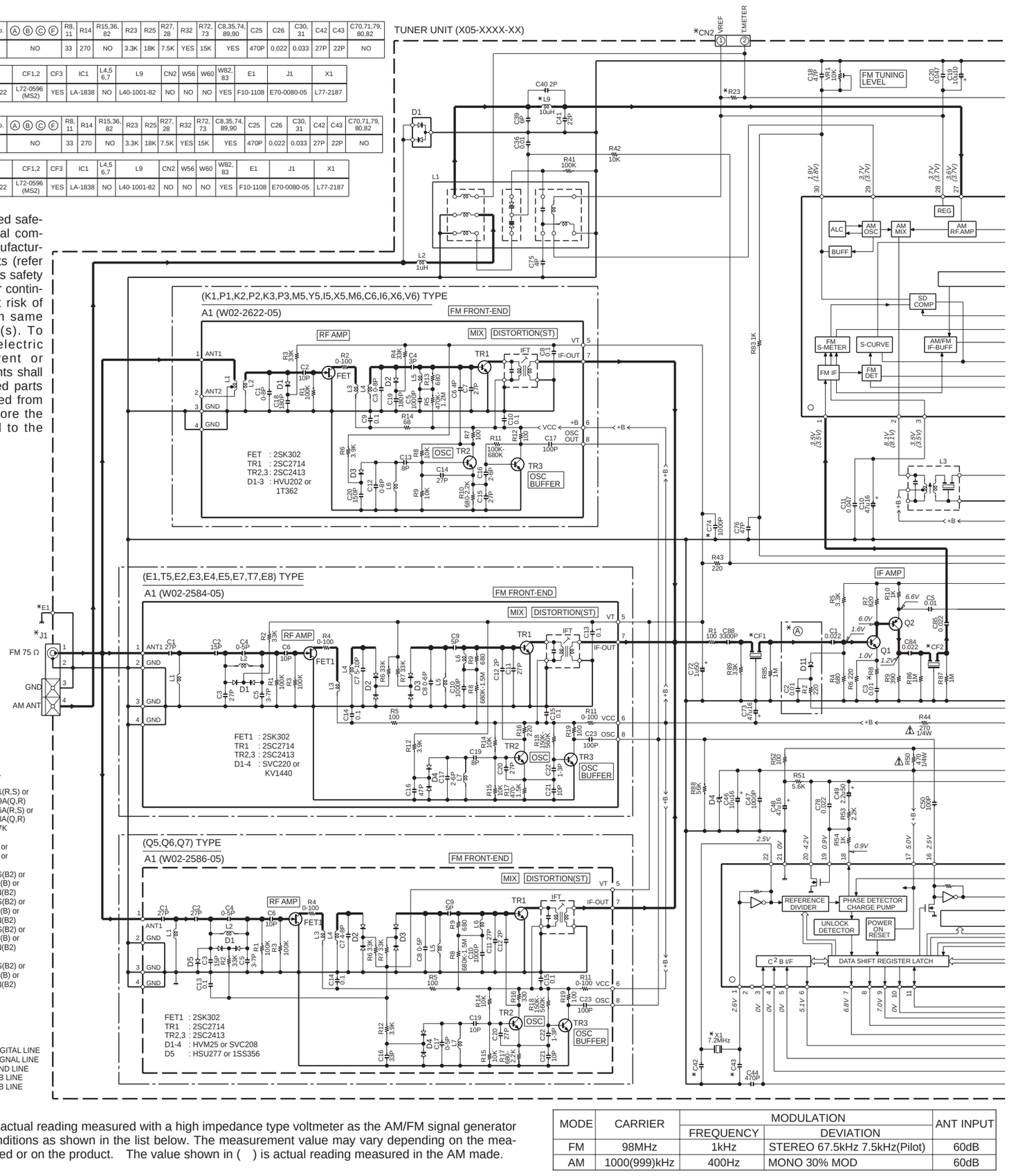
IC1 : ⁎
IC2 : LC72131

Q1,3,4,6,7 : 2SC4081(R,S) or 2SD1819A(Q,R)
Q2,12,14 : 2SA1576A(R,S) or 2SB1218A(Q,R)
Q10,11 : 2SD1757K

D1 : DA204U or MA143A or 1SS302
D3 : RD8.2ES(B2) or MTZJ8.2(B) or HZS8.2N(B2)
D4 : RD5.1ES(B2) or MTZJ5.1(B) or HZS5.1N(B2)
D5 : RD2.7ES(B2) or MTZJ2.7(B) or HZS2.7N(B2)
D8,11,13 : MA111
D9 : RD3.3ES(B2) or MTZJ3.3(B) or HZS3.3N(B2)

A1 : ⁎

DIGITAL LINE
SIGNAL LINE
GND LINE
+B LINE
−B LINE

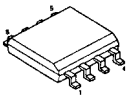



The DC voltage is an actual reading measured with a high impedance type voltmeter as the AM/FM signal generator is specified to the conditions as shown in the list below. The measurement value may vary depending on the measuring instruments used or on the product. The value shown in ( ) is actual reading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

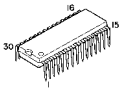
| MODE | CARRIER | MODULATION | | ANT INPUT |
|---|---|---|---|---|
| | | FREQUENCY | DEVIATION | |
| FM | 98MHz | 1kHz | STEREO 67.5kHz 7.5kHz(Pilot) | 60dB |
| AM | 1000(999)kHz | 400Hz | MONO 30% MOD | 60dB |

(X05-XXXX-XX)

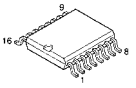
X24C02S



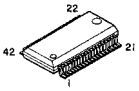
LA1837
LA1838



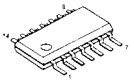
SAA6579T/R



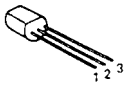
M62446FP



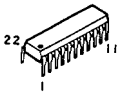
BU4066BCF
NJM2279M



S-80740AL-A4



LC72131



VR305/306/355 (1/3)
KRF-V5020/E/W (1/3)
KRF-V6020/E/W (1/3)
KRF-V7020/E/W (1/3)

# KRF-V5020/V6020/V7020/VR-305/306/355

Y05-3782-70

KENWOOD

| | | | |
|---|---|---|---|
| IC1 | : TA7815SB | D3,4,7 | : MTZJ5.1(B) or RD5.1ES(B2) |
| IC2 | : TA79015SB | D5,6 | : MTZJ6.8(B) or RD6.8ES(B2) |
| IC3 | : * | D8 | : MTZJ11(B) or RD11ES(B2) |
| IC4 | : * | D10,12,13 | : MTZJ8.2(B) or RD8.2ES(B2) |
| IC5 | : NJM4580ED | D11,56 | : MTZJ7.5(B) or RD7.5ES(B2) |
| IC6 | : TC9164AF | D14,15 | : MTZJ10(B) or RD10ES(B2) |
| IC7 | : TC9162AF | D19-23,26,50-55,59,532,533 | : MA111 |
| IC8,12,55 | : NJM4565MD | D24 | : MTZJ4.7(B) or RD4.7ES(B2) |
| IC9 | : M62446FP | D25 | : MTZJ3.3(B) or RD3.3ES(B2) |
| IC16 | : M62460FP | D31,32 | : D4SBL20UF03 |
| IC17 | : BU4066BCF | D37,38 | : MTZJ16(B) or RD16ES(B2) |
| IC18 | : NJM2279M | D39,40 | : MTZJ18(B) or RD18ES(B2) |
| IC19 | : M5278L05M | D530 | : S1ZB20(4072) |
| Q1-11 | : 2SC2878(B) | | |
| Q12,40,42 | : 2SC4213(B) | | |
| Q13,14 | : 2SA1586(Y,GR) or 2SA1611(M5,M6) | | |
| Q15-19 | : 2SC1845(F,E) | | |
| Q20-23 | : DTC123JUA | | |
| Q24,25,32-34,36,37 | : 2SC3722K(R,S) | | |
| Q26,35 | : 2SA1255 | | |
| Q29 | : 2SC3944A(R,S) | | |
| Q30 | : 2SA1285A(F) or 2SA1123(S,T) | | |
| Q31 | : 2SB1640 | | |
| Q41 | : DTC113ZUA or UN5219 | | |
| TH1 | : PTH9C42BD471Q | | |

SIGNAL LINE
GND LINE
+B LINE
−B LINE

AUDIO UNIT
(X09-6XXX-XX) (A/3)

USED
KRF-V7020/E/W

SUB CIRCUIT UNIT (X25-6222-70)

D1: DA204U

IC18 I/O TABLE

| INPUT | OUTPUT ⑩ MONITOR | OUTPUT ⑤ VIDEO1 REC | ② V-A | ⑬ V-B | ④ MUTE |
|---|---|---|---|---|---|
| ⑫ VIDEO1 | ○ | × | L | L | L |
| ③ VIDEO2 | ○ | ○ | L | H | H |
| ① 6ch INPUT | ○ | ○ | H | H | H |

IC18
(BOTTOM VIEW)
VIDEO AMP SEL.

IC55 (1/2)
IC55 (2/2)
REC BUFF.

PHONO
CD
VIDEO2 MONITOR
REC OUT
PLAY IN
MD/ TAPE
VIDEO1 PLAY IN
DVD 6CH. INPUT
VIDEO 1 (FRONT)
VIDEO
6ch INPUT
VIDEO1 2 PLAY
VIDEO2 3 PLAY
MONITOR OUT
VIDEO OUT
VIDEO2 2 REC

CN1 CN2 CN10 CN11 CN12

X05-CN1 1/3

(X09-6XXX-XX) (A/3)

PHONO EQ AMP

INPUT SELECTOR

IC6

LINE BUFF.

IC8(1/2)

IC8(2/2)

BYPASS(L)

BYPASS(R)

IC5(1/2)

IC5(2/2)

ELECTRIC VOL.,TONE

IC9 (BOTTOM VIEW)

-10dB ATT.

MUTE

FLch

FRch

SLch

SRch

Cch

SWch

SW AMP

IC12(1/2)

IC12(2/2)

MUTE ON:1.4V OFF:-4.7V

MUTE ON:2.7V OFF:4.5V

Q14 MUTE DRIVER

DOLBY PRO LOGIC

IC16 (BOTTOM VIEW)

MODIFIED B-TYPE NR DECODER

DUAL. TIME CONSTANT AND THRESHOLD SWITCHES

LOG DIFFERENCE AMPLIFIERS

FULL WAVE RECTIFIER

COMBINING NETWORKS

VCA

CENTER MODE CONTROL

AUTO BALANCE

SERVO

SELECTOR

SELECTOR1

SELECTOR2

SELECTOR3

NOISE SEQUENCER

MCU

SURR. MODE SELECTOR

IC7

6CH INPUT

6CH P/L

IC19

IC17 (BOTTOM VIEW)

SL,SR:ON/OFF
MD REC:ON/OFF

*IC3

*IC4 POWER IC (C,SL,SRch)

WH4

CN8

WH1

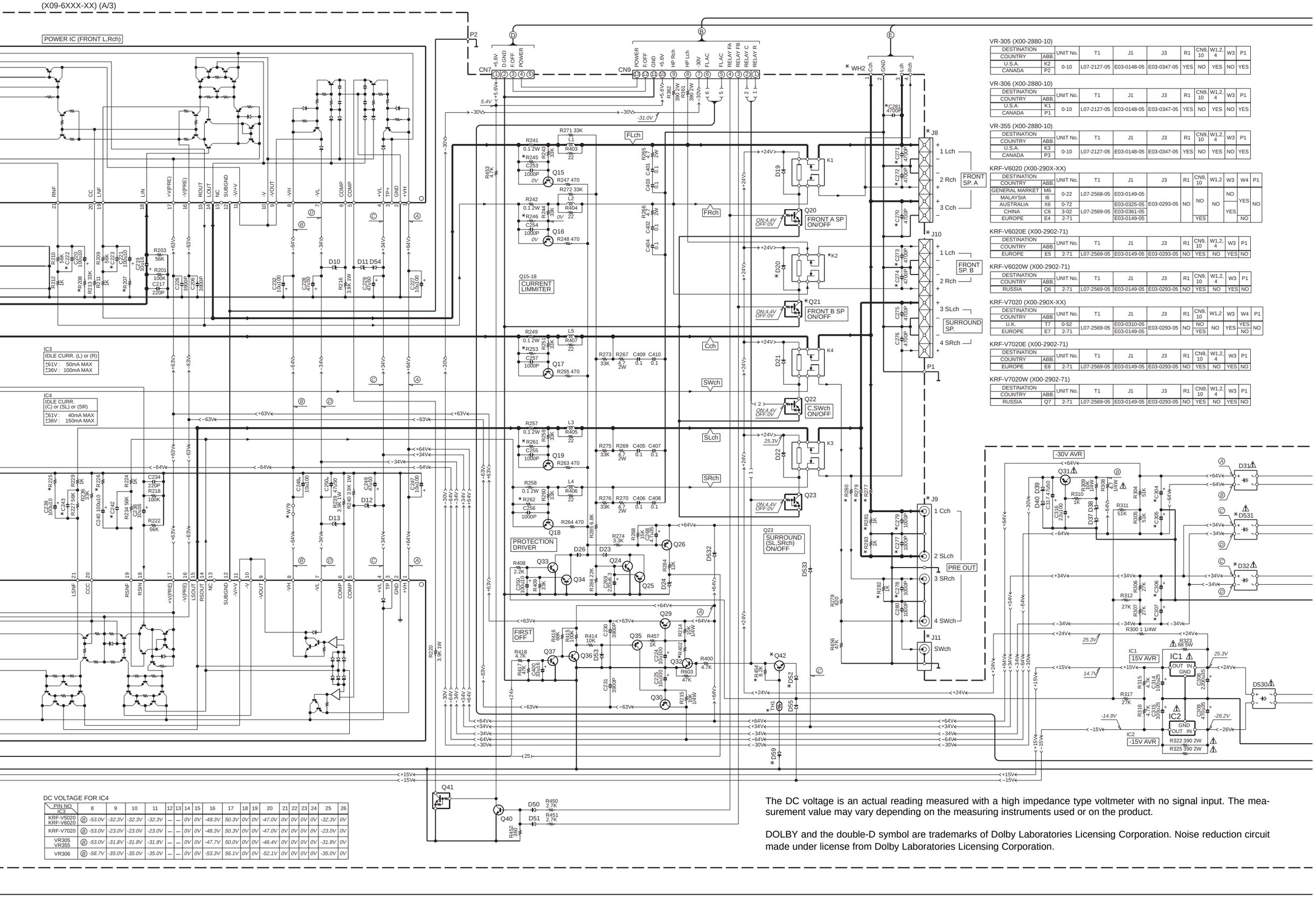
DC VOLTAGE FOR IC3

| PIN NO / IC3 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KRF-V5020 KRF-V6020 | Ⓐ 53.0V | — | — | Ⓒ 32.7V | 24.7V | -24.9V | Ⓓ -32.7V | Ⓑ -53.0V | -32.3V | -32.3V | -32.3V | — | — | 0V | 0V | -48.3V | 50.3V | 0V | 0V | -47.0V | 0V | 0V |
| KRF-V7020 | Ⓐ 53.0V | — | — | Ⓒ 23.5V | 15.5V | -15.3V | Ⓓ -23.5V | Ⓑ -53.0V | -23.0V | -23.0V | -23.0V | — | — | 0V | 0V | -48.3V | 50.3V | 0V | 0V | -47.0V | 0V | 0V |
| VR305 VR355 | Ⓐ 53.0V | — | — | Ⓒ 32.2V | 24.3V | -24.3V | Ⓓ -32.2V | Ⓑ -53.0V | -31.8V | -31.8V | -31.8V | — | — | 0V | 0V | -47.7V | 50.0V | 0V | 0V | -46.4V | 0V | 0V |
| VR306 | Ⓐ 58.7V | — | — | Ⓒ 35.6V | 27.4V | -27.4V | Ⓓ -35.6V | Ⓑ -58.7V | -35.0V | -35.0V | -35.0V | — | — | 0V | 0V | -53.3V | 56.1V | 0V | 0V | -52.1V | 0V | 0V |

DC VOLTAGE FOR IC4

| PIN NO / IC3 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| KRF-V5020 KRF-V6020 | Ⓐ 53.0V | — | — | Ⓒ 32.7V | 24.7V | -24.9V | Ⓓ -32.7V |
| KRF-V7020 | Ⓐ 53.0V | — | — | Ⓒ 23.5V | 15.5V | -15.3V | Ⓓ -23.5V |
| VR305 VR355 | Ⓐ 53.0V | — | — | Ⓒ 32.2V | 24.3V | -24.3V | Ⓓ -32.2V |
| VR306 | Ⓐ 58.7V | — | — | Ⓒ 35.6V | 27.4V | -27.4V | Ⓓ -35.6V |

(X09-6XXX-XX) (A/3)




VR-305 (X00-2880-10)

| DESTINATION | | UNIT No. | T1 | J1 | J3 | R1 | CN9, 10 | W1,2, 4 | W3 | P1 |
|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | |
| U.S.A. | K2 | 0-10 | L07-2127-05 | E03-0148-05 | E03-0347-05 | YES | NO | YES | NO | YES |
| CANADA | P2 | | | | | | | | | |

VR-306 (X00-2880-10)

| DESTINATION | | UNIT No. | T1 | J1 | J3 | R1 | CN9, 10 | W1,2, 4 | W3 | P1 |
|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | |
| U.S.A. | K1 | 0-10 | L07-2127-05 | E03-0148-05 | E03-0347-05 | YES | NO | YES | NO | YES |
| CANADA | P1 | | | | | | | | | |

VR-355 (X00-2880-10)

| DESTINATION | | UNIT No. | T1 | J1 | J3 | R1 | CN9, 10 | W1,2, 4 | W3 | P1 |
|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | |
| U.S.A. | K3 | 0-10 | L07-2127-05 | E03-0148-05 | E03-0347-05 | YES | NO | YES | NO | YES |
| CANADA | P3 | | | | | | | | | |

KRF-V6020 (X00-290X-XX)

| DESTINATION | | UNIT No. | T1 | J1 | J3 | R1 | CN9, 10 | W1,2 | W3 | W4 | P1 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | |
| GENERAL MARKET | M6 | 0-22 | L07-2568-05 | E03-0149-05 | | | | | NO | | |
| MALAYSIA | I6 | | | | | | | | | YES | |
| AUSTRALIA | X6 | 0-72 | | E03-0325-05 | E03-0293-05 | NO | NO | NO | | | NO |
| CHINA | C6 | 3-02 | L07-2569-05 | E03-0361-05 | | | | | YES | | |
| EUROPE | E4 | 2-71 | | E03-0149-05 | | | YES | | | NO | |

KRF-V6020E (X00-2902-71)

| DESTINATION | | UNIT No. | T1 | J1 | J3 | R1 | CN9, 10 | W1,2, 4 | W3 | P1 |
|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | |
| EUROPE | E5 | 2-71 | L07-2569-05 | E03-0149-05 | E03-0293-05 | NO | YES | NO | YES | NO |

KRF-V6020W (X00-2902-71)

| DESTINATION | | UNIT No. | T1 | J1 | J3 | R1 | CN9, 10 | W1,2, 4 | W3 | P1 |
|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | |
| RUSSIA | Q6 | 2-71 | L07-2569-05 | E03-0149-05 | E03-0293-05 | NO | YES | NO | YES | NO |

KRF-V7020 (X00-290X-XX)

| DESTINATION | | UNIT No. | T1 | J1 | J3 | R1 | CN9, 10 | W1,2 | W3 | W4 | P1 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | |
| U.K. | T7 | 0-52 | L07-2569-05 | E03-0310-05 | E03-0293-05 | NO | NO | NO | YES | YES | NO |
| EUROPE | E7 | 2-71 | | E03-0149-05 | | | YES | | | NO | |

KRF-V7020E (X00-2902-71)

| DESTINATION | | UNIT No. | T1 | J1 | J3 | R1 | CN9, 10 | W1,2, 4 | W3 | P1 |
|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | |
| EUROPE | E8 | 2-71 | L07-2569-05 | E03-0149-05 | E03-0293-05 | NO | YES | NO | YES | NO |

KRF-V7020W (X00-2902-71)

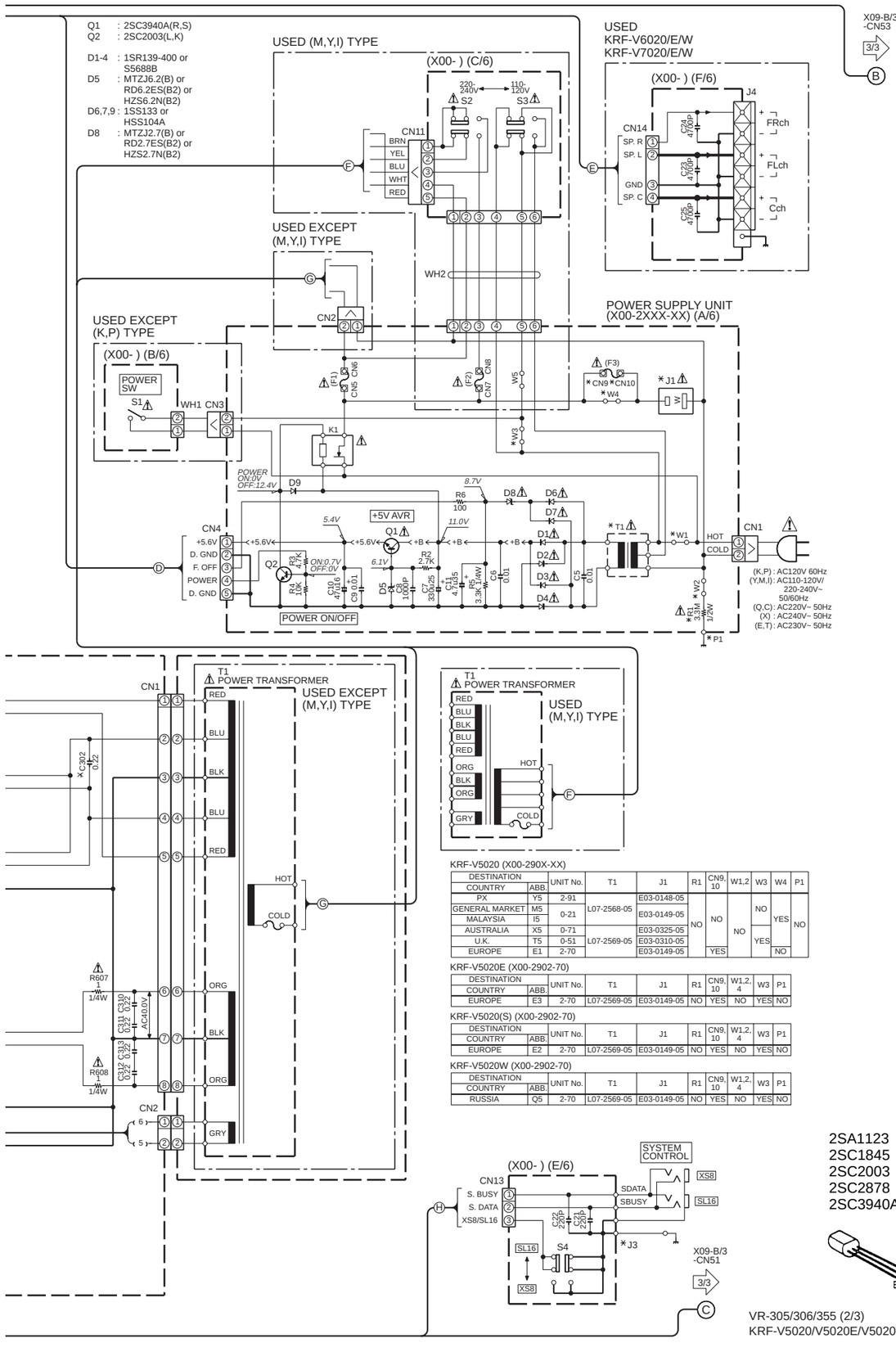
| DESTINATION | | UNIT No. | T1 | J1 | J3 | R1 | CN9, 10 | W1,2, 4 | W3 | P1 |
|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | |
| RUSSIA | Q7 | 2-71 | L07-2569-05 | E03-0149-05 | E03-0293-05 | NO | YES | NO | YES | NO |

DC VOLTAGE FOR IC4

| PIN NO / IC3 | | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KRF-V5020 KRF-V6020 | Ⓑ | -53.0V | -32.3V | -32.3V | -32.3V | — | — | 0V | 0V | -48.3V | 50.3V | 0V | 0V | -47.0V | 0V | 0V | 0V | 0V | -32.3V | 0V |
| KRF-V7020 | Ⓑ | -53.0V | -23.0V | -23.0V | -23.0V | — | — | 0V | 0V | -48.3V | 50.3V | 0V | 0V | -47.0V | 0V | 0V | 0V | 0V | -23.0V | 0V |
| VR305 VR355 | Ⓑ | -53.0V | -31.8V | -31.8V | -31.8V | — | — | 0V | 0V | -47.7V | 50.0V | 0V | 0V | -46.4V | 0V | 0V | 0V | 0V | -31.8V | 0V |
| VR306 | Ⓑ | -58.7V | -35.0V | -35.0V | -35.0V | — | — | 0V | 0V | -53.3V | 56.1V | 0V | 0V | -52.1V | 0V | 0V | 0V | 0V | -35.0V | 0V |

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

(X09-6XXX-XX) (A/3)




KRF-V5020 (X00-290X-XX)

| DESTINATION | | UNIT No. | T1 | J1 | R1 | CN9, 10 | W1,2 | W3 | W4 | P1 |
|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | |
| PX | Y5 | 2-91 | L07-2568-05 | E03-0148-05 | NO | NO | NO | NO | YES | NO |
| GENERAL MARKET | M5 | 0-21 | | E03-0149-05 | | | | YES | | |
| MALAYSIA | I5 | | | | | | | | | |
| AUSTRALIA | X5 | 0-71 | L07-2569-05 | E03-0325-05 | | | | NO | | |
| U.K. | T5 | 0-51 | | E03-0310-05 | | | | YES | | |
| EUROPE | E1 | 2-70 | | E03-0149-05 | | YES | | | NO | |

KRF-V5020E (X00-2902-70)

| DESTINATION | | UNIT No. | T1 | J1 | R1 | CN9, 10 | W1,2, 4 | W3 | P1 |
|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | |
| EUROPE | E3 | 2-70 | L07-2569-05 | E03-0149-05 | NO | YES | NO | YES | NO |

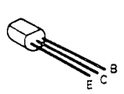
KRF-V5020(S) (X00-2902-70)

| DESTINATION | | UNIT No. | T1 | J1 | R1 | CN9, 10 | W1,2, 4 | W3 | P1 |
|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | |
| EUROPE | E2 | 2-70 | L07-2569-05 | E03-0149-05 | NO | YES | NO | YES | NO |

KRF-V5020W (X00-2902-70)

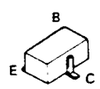
| DESTINATION | | UNIT No. | T1 | J1 | R1 | CN9, 10 | W1,2, 4 | W3 | P1 |
|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | |
| RUSSIA | Q5 | 2-70 | L07-2569-05 | E03-0149-05 | NO | YES | NO | YES | NO |

2SA1123
2SC1845
2SC2003
2SC2878
2SC3940A



UN5219
2SA1255
2SA1586
2SB1218A
2SC3722K

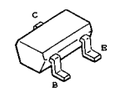
2SC4116
2SD1819A



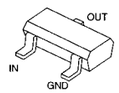
2SC3944A

2SA1285A

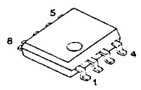
2SC4081
2SD1757K



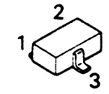
DTC123JUA




NJM4565MD
NJM4580ED



DA204U



VR-305 (X09-6300-11)

| DESTINATION | | UNIT No. | C222,223, 242-244 | C270-272 | C273,274,277-279, 281,302,539 | C304, 305 | C306, 307 | CN11, 12 | D20,32, 52,59 | D531 | IC3 | IC4 | J8,11 | J9 | J10 | K2 | Q21, 42 | R207,208,225, 226,233 | R245,246,253, 261,262 | R277,279, 280-283,454 | R402 | TH1 | W503-505 | WH2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | | | | | | | | | | | |
| U.S.A. | K2 | 0-11 | 15P | YES | NO | 4700u 75 | 3300u 42 | NO | NO | YES | STK411-220D | STK410-020D | YES | NO | E70-0057-05 4P | NO | NO | 360 | 36K | NO | 56K | NO | YES | NO |
| CANADA | P2 | | | | | | | | | | | | | | | | | | | | | | | |

VR-306 (X09-6300-10)

| DESTINATION | | UNIT No. | C222,223, 242-244 | C270-272 | C273,274,277-279, 281,302,539 | C304, 305 | C306, 307 | CN11, 12 | D20,32, 52,59 | D531 | IC3 | IC4 | J8,11 | J9 | J10 | K2 | Q21, 42 | R207,208,225, 226,233 | R245,246,253, 261,262 | R277,279, 280-283,454 | R402 | TH1 | W503-505 | WH2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | | | | | | | | | | | |
| U.S.A. | K1 | 0-10 | 15P | YES | NO | 4700u 75 | 3300u 42 | NO | NO | YES | STK411-230D | STK410-030D | YES | NO | E70-0057-05 4P | NO | NO | 330 | 33K | NO | 43K | NO | YES | NO |
| CANADA | P1 | | | | | | | | | | | | | | | | | | | | | | | |

VR-355 (X09-6300-11)

| DESTINATION | | UNIT No. | C222,223, 242-244 | C270-272 | C273,274,277-279, 281,302,539 | C304, 305 | C306, 307 | CN11, 12 | D20,32, 52,59 | D531 | IC3 | IC4 | J8,11 | J9 | J10 | K2 | Q21, 42 | R207,208,225, 226,233 | R245,246,253, 261,262 | R277,279, 280-283,454 | R402 | TH1 | W503-505 | WH2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | | | | | | | | | | | |
| U.S.A. | K3 | 0-11 | 15P | YES | NO | 4700u 75 | 3300u 42 | NO | NO | YES | STK411-220D | STK410-020D | YES | NO | E70-0057-05 4P | NO | NO | 360 | 36K | NO | 56K | NO | YES | NO |
| CANADA | P3 | | | | | | | | | | | | | | | | | | | | | | | |

KRF-V5020 (X09-624X-XX)

| DESTINATION | | UNIT No. | C222,223, 242-244 | C270,272, 302 | C271 | C273, 274 | C277-279, 539 | C281 | C304, 305 | C306, 307 | CN11, 12 | D20, 531 | D32 | D52, 59 | IC3 | IC4 | J8 | J9 | J10 | J11 | K2 | Q21 | Q42 | R207,208,225, 226,233 | R245,246,253, 261,262 | R277,279, 280 | R281-283 | R402 | R454 | TH1 | W503-505 | WH2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GENERAL MARKET | M5 | 0-21 | 15P | YES | YES | NO | NO | NO | 4700u 75 | 3300u 42 | NO | NO | YES | YES | STK411-220D | STK410-020D | YES | NO | E70-0057-05 4P | YES | NO | NO | YES | 360 | 36K | NO | NO | 27K | YES | YES | YES | NO |
| MALAYSIA | I5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AUSTRALIA | X5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PX | Y5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U.K. | T5 | 2-70 | 10P | | NO | | YES | YES | 4700u 63 | 3300u 35 | | | | NO | | | | YES | | NO | | NO | NO | 470 | | 16K | YES | 24K | NO | NO | | |
| EUROPE | E1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

KRF-V5020(S) (X09-6242-70)

| DESTINATION | | UNIT No. | C222,223, 242-244 | C270,272,277-279, 281,302,539 | C271,273, 274 | C304, 305 | C306, 307 | CN11, 12 | D20,32, 59,531 | D32 | IC3 | IC4 | J8,9 | J10 | J11 | K2 | Q21, 42 | R207,208,225 226,233 | R245,246,253, 261,262 | R277,279, 280 | R281-283 | R402 | R454 | TH1 | W503-505 | WH2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | | | | | | | | | | | | | |
| EUROPE | E2 | 2-70 | 10P | YES | NO | 4700u 63 | 3300u 35 | NO | NO | YES | STK411-220D | STK410-020D | YES | E70-0057-05 4P | NO | NO | NO | 470 | 36K | 16K | YES | 24K | NO | NO | YES | NO |

KRF-V5020E (X09-6242-70)

| DESTINATION | | UNIT No. | C222,223, 242-244 | C270,272,277-279, 281,302,539 | C271,273, 274 | C304, 305 | C306, 307 | CN11, 12 | D20,32, 59,531 | D32 | IC3 | IC4 | J8,9 | J10 | J11 | K2 | Q21, 42 | R207,208,225 226,233 | R245,246,253, 261,262 | R277,279, 280 | R281-283 | R402 | R454 | TH1 | W503-505 | WH2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | | | | | | | | | | | | | |
| EUROPE | E3 | 2-70 | 10P | YES | NO | 4700u 63 | 3300u 35 | NO | NO | YES | STK411-220D | STK410-020D | YES | E70-0057-05 4P | NO | NO | NO | 470 | 36K | 16K | YES | 24K | NO | NO | YES | NO |

KRF-V5020W (X09-6243-81)

| DESTINATION | | UNIT No. | C222,223, 242-244 | C270-272,277-279, 302,539 | C273,274, 281 | C304, 305 | C306, 307 | CN11, 12 | D20,32, 59,531 | D32 | IC3 | IC4 | J8,9 | J10 | J11 | K2 | Q21, 42 | R207,208,225, 226,233 | R245,246,253, 261,262 | R277,279, 280 | R281-283 | R402 | R454 | TH1 | W503-505 | WH2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | | | | | | | | | | | | | |
| RUSSIA | Q5 | 3-81 | 10P | YES | NO | 4700u 63 | 3300u 35 | NO | NO | YES | STK411-220D | STK410-020D | YES | E70-0057-05 4P | NO | NO | NO | 470 | 36K | 16K | YES | 24K | NO | NO | YES | NO |

KRF-V6020 (X09-624X-XX)

| DESTINATION | | UNIT No. | C222,223, 242-244 | C270-272, 281 | C273,274, 302 | C277-279, 539 | C304, 305 | C306, 307 | CN11, 12 | D20, 32 | D531 | D52, 59 | IC3 | IC4 | J8 | J9 | J10 | J11 | K2 | Q21 | Q42 | R207,208,225, 226,233 | R245,246,253, 261,262 | R277,279, 280 | R281-283 | R402 | R454 | TH1 | W503-505 | WH2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GENERAL MARKET | M6 | 0-22 | 15P | NO | YES | NO | 4700u 75 | 3300u 42 | NO | YES | NO | YES | STK411-220D | STK410-020D | NO | NO | E70-0047-05 8P | YES | YES | YES | YES | 360 | 36K | NO | NO | 27K | YES | YES | YES | YES |
| MALAYSIA | I6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AUSTRALIA | X6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CHINA | C6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EUROPE | E4 | 2-71 | 10P | | YES | 4700u 63 | 3300u 35 | | | | NO | | | | | YES | | NO | | NO | | NO | 470 | | 16K | YES | 24K | NO | NO | |

KRF-V6020(X00-2892-10)

| COUNTRY | ABB. | C13,14 | C23-25 | WH2 | CN2,3 | CN11 | CN14 | J1 | J2 | J3 | J4 | P1 | W1,2,5 | CN7-10 | T1 | S1 | S2,3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SHANGHAI | V6 | 150P | YES | NO | YES | NO | YES | E03-0361 | E11-0295 | E11-0347 | YES | NO | NO | NO | L07-2129 | S68-0088 | NO |

KRF-V6020(X05-5062-11)

| COUNTRY | ABB. | Ⓐ Ⓒ Ⓕ | Ⓑ | C8 | C25 | C26 | C30,31, 35 | C42 | C43 | C70,71,74, 79,80,82 | C89,90 | CN2 | J1 | E1 | CF1,2 | CF3 | L4-7 | X1 | R8,11 | R14 | R15 | R23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SHANGHAI | V6 | NO | YES | YES | 470P | 0.022 | YES | 27P | 22P | NO | YES | NO | E70-0080 | YES | L72-0531 | YES | NO | L77-2187 | 33 | 270 | NO | 3.3K |

KRF-V6020(X05-5062-11)

| COUNTRY | ABB. | R25 | R27,28 | R32 | R72,73 | R80,82 | W53,60 | W56,82,83 | D13 | IC1 | A1 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SHANGHAI | V6 | 1.8K | 7.5K | YES | 8.2K | NO | NO | YES | NO | LA1838 | W02-2622 |

KRF-V6020(X09-6352-10)

| COUNTRY | ABB. | C222,223,2 42-244 | C270-272 | C273,274 | C277-279, 281 | C302 | C304,305 | C306,307 | C510,515,516 ,522-524,527,528, 533,535,540 | P1 | P2 | WH1,2,4, 51,52 | CN11,12 | J1 | J2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SHANGHAI | V6 | 15P | NO | YES | NO | C91-1480 | 4700U75 | 3300U42 | NO | YES | YES | NO | E63-0172 | E63-0173 | |

KRF-V6020(X09-6352-10)

| COUNTRY | ABB. | J3,4 | J5 | J6 | J7 | J8,9 | J10 | J11 | W209 | L501,502 | X502 | R207,208,225, 226,233 | R245,246,253, 261,262 | R277, 279-283 | R402 | R454 | R509 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SHANGHAI | V6 | E63-1017 | E63-1018 | E63-1019 | E63-0172 | NO | E70-0047 | E63-1016 | YES | NO | NO | 360 | 36K | NO | 56K | 8.2K | NO |

KRF-V6020(X09-6352-10)

| COUNTRY | ABB. | R517 | R526 | R556 | R577,564,569, 578,580 | W503-506 | K6 | D20,32,52,59, 504,510 | D505,507,522, 524,531 | IC3 | IC4 | IC51 | IC52 | IC54 | Q21,42 | TH1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SHANGHAI | V6 | 10K | 100 | 10K | NO | NO | YES | YES | NO | STK411-220D | STK410-020D | CXP82832-155Q | YES | NO | YES | YES |

KRF-V6020E (X09-6242-71)

| DESTINATION | | UNIT No. | C222,223, 242-244 | C270-272, 281 | C273,274,277-279, 302,539 | C304, 305 | C306, 307 | CN11, 12 | D20, 32 | D32,59, 531 | IC3 | IC4 | J8,11 | J9 | J10 | K2 | Q21 | Q42 | R207,208,225, 226,233 | R245,246,253, 261,262 | R277,279, 280 | R281-283 | R402 | R454 | TH1 | W503-505 | WH2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EUROPE | E5 | 2-71 | 10P | NO | YES | 4700u 63 | 3300u 35 | NO | YES | NO | STK411-220D | STK410-020D | NO | YES | E70-0047-05 8P | YES | YES | NO | 470 | 36K | 16K | YES | 24K | NO | NO | YES | YES |

KRF-V6020W (X09-6243-82)

| DESTINATION | | UNIT No. | C222,223, 242-244 | C270-272, 281 | C273,274,277-279, 302,539 | C304, 305 | C306, 307 | CN11, 12 | D20, 32 | D32,59, 531 | IC3 | IC4 | J8,11 | J9 | J10 | K2 | Q21 | Q42 | R207,208,225, 226,233 | R245,246,253, 261,262 | R277,279, 280 | R281-283 | R402 | R454 | TH1 | W503-505 | WH2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RUSSIA | Q6 | 3-82 | 10P | NO | YES | 4700u 63 | 3300u 35 | NO | YES | NO | STK411-220D | STK410-020D | NO | YES | E70-0047-05 8P | YES | YES | NO | 470 | 36K | 16K | YES | 24K | NO | NO | YES | YES |

KRF-V7020 (X09-6262-70)

| DESTINATION | | UNIT No. | C222,223, 242-244 | C270-272, 281 | C273,274,277-279, 302,539 | C304, 305 | C306, 307 | CN11, 12 | D20, 32 | D32,59, 531 | IC3 | IC4 | J8,11 | J9 | J10 | K2 | Q21 | Q42 | R207,208,225, 226,233 | R245,246,253, 261,262 | R277,279, 280 | R281-283 | R402 | R454 | TH1 | W503-505 | WH2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EUROPE | E7 | 2-70 | 10P | NO | YES | 4700u 63 | 3300u 35 | YES | YES | NO | STK411-230D | STK410-030D | NO | YES | E70-0047-05 8P | YES | YES | NO | 430 | 33K | 18K | YES | 33K | NO | NO | NO | YES |
| U.K. | T7 | | | | | | | | | | | | | | | | | | | | | | | | | | |

KRF-V7020E (X09-6262-70)

| DESTINATION | | UNIT No. | C222,223, 242-244 | C270-272, 281 | C273,274,277-279, 302,539 | C304, 305 | C306, 307 | CN11, 12 | D20, 32 | D32,59, 531 | IC3 | IC4 | J8,11 | J9 | J10 | K2 | Q21 | Q42 | R207,208,225, 226,233 | R245,246,253, 261,262 | R277,279, 280 | R281-283 | R402 | R454 | TH1 | W503-505 | WH2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EUROPE | E8 | 2-70 | 10P | NO | YES | 4700u 63 | 3300u 35 | YES | YES | NO | STK411-230D | STK410-030D | NO | YES | E70-0047-05 8P | YES | YES | NO | 430 | 33K | 18K | YES | 33K | NO | NO | NO | YES |

KRF-V7020W (X09-6263-81)

| DESTINATION | | UNIT No. | C222,223, 242-244 | C270-272, 281 | C273,274,277-279, 302,539 | C304, 305 | C306, 307 | CN11, 12 | D20, 32 | D32,59, 531 | IC3 | IC4 | J8,11 | J9 | J10 | K2 | Q21 | Q42 | R207,208,225, 226,233 | R245,246,253, 261,262 | R277,279, 280 | R281-283 | R402 | R454 | TH1 | W503-505 | WH2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RUSSIA | Q7 | 3-81 | 10P | NO | YES | 4700u 63 | 3300u 35 | YES | YES | NO | STK411-230D | STK410-030D | NO | YES | E70-0047-05 8P | YES | YES | NO | 430 | 33K | 18K | YES | 33K | NO | NO | NO | YES |

**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.

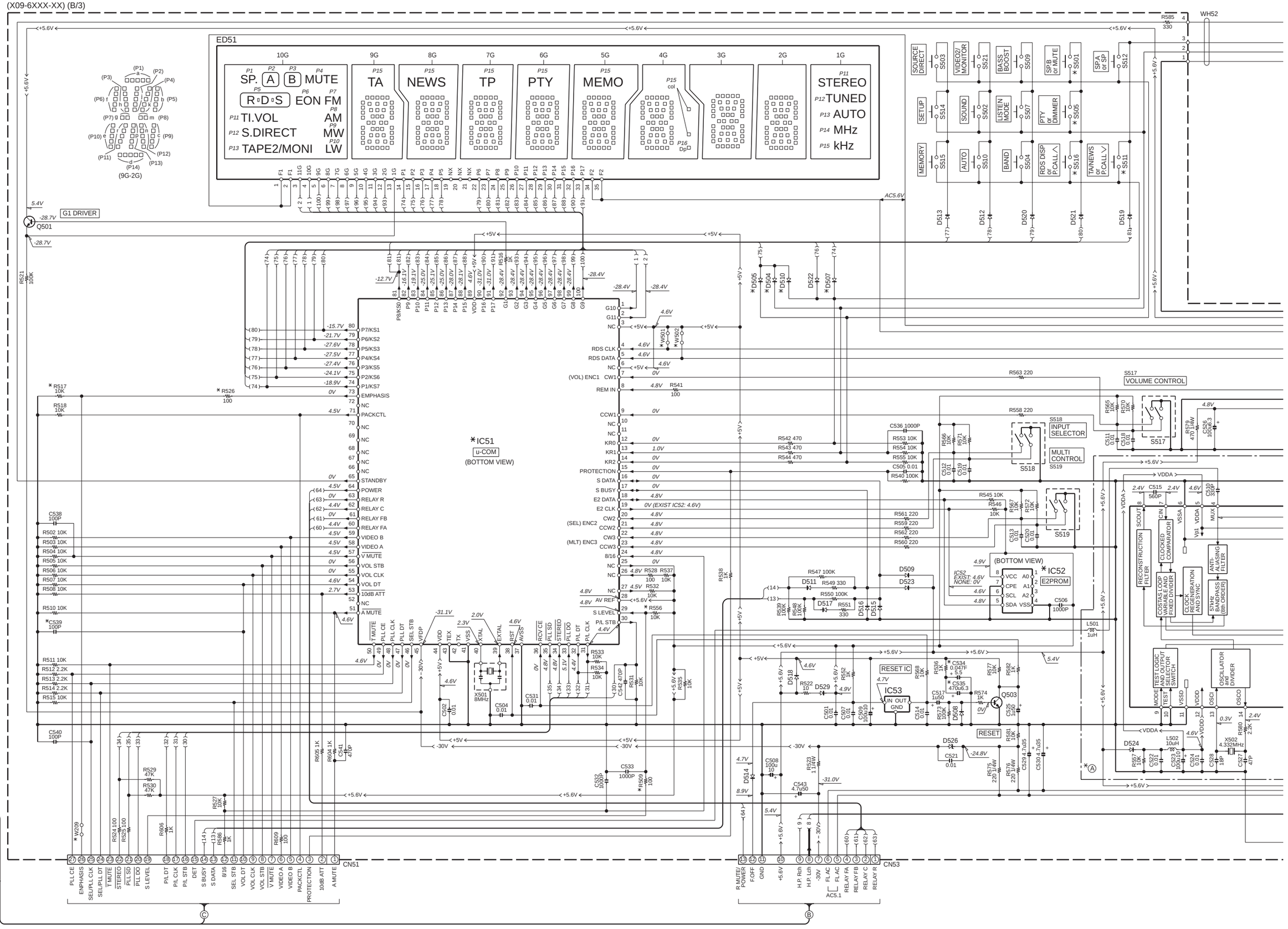
VR-305/306/355 (2/3)
KRF-V5020/V5020E/V5020W/V6020/V6020E/V6020W/V7020/V7020E/V7020W (2/3)

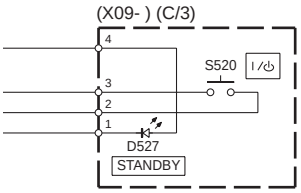
Y05-3782-70

# KRF-V5020/V6020/V7020/VR-305/306/355

KENWOOD

DISPLAY UNIT
(X09-6XXX-XX) (B/3)






IC51 : ✳
IC52 : X24C02S
IC53 : S-80740AL-A4
IC54 : SAA6579T/R or SAA6579T

Q501,503 : 2SC4116(Y,GR) or 2SC4177(L5,L6) or

D504,505,507-524,529 : 1SS133 or HSS104A
D526 : MTZJ6.2(B) or RD6.2ES(B2)
D527 : B30-2545-05

A501 : W02-2625-05

ED51 : 11-MT-120GK

VR-305 (X09-6300-11)

| DESTINATION | | UNIT No. | Ⓐ | C534 | C535 | D504,505, 507,510 | IC51 | IC52 | R509,517, 526 | R556 | S501 | S505 | S511 | S516 | W209 | W501, 502 | J2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | | | | |
| U.S.A. | K2 | 0-11 | NO | NO | YES | NO | CXP82832 -155Q | NO | NO | YES | MUTE | DIMMER | P.CALL ⩔ | P.CALL ⩓ | NO | YES | E11-0295-05 |
| CANADA | P2 | | | | | | | | | | | | | | | | |

VR-306 (X09-6300-10)

| DESTINATION | | UNIT No. | Ⓐ | C534 | C535 | D504,505, 507,510 | IC51 | IC52 | R509,517, 526 | R556 | S501 | S505 | S511 | S516 | W209 | W501, 502 | J2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | | | | |
| U.S.A. | K1 | 0-10 | NO | NO | YES | NO | CXP82832 -155Q | NO | NO | YES | SB P | DIMMER | P.CALL ⩔ | P.CALL ⩓ | NO | YES | E11-0295-05 |
| CANADA | P1 | | | | | | | | | | | | | | | | |

VR-355 (X09-6300-11)

| DESTINATION | | UNIT No. | Ⓐ | C534 | C535 | D504,505, 507,510 | IC51 | IC52 | R509,517, 526 | R556 | S501 | S505 | S511 | S516 | W209 | W501, 502 | J2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | | | | |
| U.S.A. | K3 | 0-11 | NO | NO | YES | NO | CXP82832 -155Q | NO | NO | YES | MUTE | DIMMER | P.CALL ⩔ | P.CALL ⩓ | NO | YES | E11-0295-05 |
| CANADA | P3 | | | | | | | | | | | | | | | | |

KRF-V5020 (X09-624X-XX)

| DESTINATION | | UNIT No. | Ⓐ | C534 | C535 | D504 | D505 | D507 | D510 | IC51 | IC52 | R509 | R517,526, 556 | S501 | S505 | S511 | S516 | W209,501, 502 | J2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | | | | | | |
| GENERAL MARKET | M5 | 0-21 | NO | YES | NO | YES | NO | NO | YES | CXP82832 -155Q | YES | NO | YES | MUTE | DIMMER | P.CALL ⩔ | P.CALL ⩓ | YES | E11-0127-05 |
| MALAYSIA | I5 | | | | | | | | | | | | | | | | | | |
| AUSTRALIA | X5 | | | | | | | | | | | | | | | | | | |
| PX | Y5 | | | | | | | | | | | | | | | | | | |
| U.K. | T5 | 2-70 | YES | | | NO | YES | | | CXP82852 -136Q | | YES | NO | | PTY | (RDS) DISPLAY | TA/ NEWS | NO | |
| EUROPE | E1 | | | | | | | | | | | | | | | | | | |

KRF-V5020(S) (X09-6242-70)

| DESTINATION | | UNIT No. | Ⓐ | C534 | C535 | D504, 507 | D505, 510 | IC51 | IC52 | R509 | R517,526 556 | S501 | S505 | S511 | S516 | W209,501, 502 | J2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | | | | |
| EUROPE | E2 | 2-70 | YES | YES | NO | NO | YES | CXP82852 -136Q | YES | YES | NO | MUTE | PTY | (RDS) DISPLAY | TA/ NEWS | NO | E11-0127-05 |

KRF-V5020E (X09-6242-70)

| DESTINATION | | UNIT No. | Ⓐ | C534 | C535 | D504, 507 | D505, 510 | IC51 | IC52 | R509 | R517,526 556 | S501 | S505 | S511 | S516 | W209,501, 502 | J2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | | | | |
| EUROPE | E3 | 2-70 | YES | YES | NO | NO | YES | CXP82852 -136Q | YES | YES | NO | MUTE | PTY | (RDS) DISPLAY | TA/ NEWS | NO | E11-0127-05 |

KRF-V5020W (X09-6243-81)

| DESTINATION | | UNIT No. | Ⓐ | C534 | C535 | D504,507, 510 | D505 | IC51 | IC52 | R509 | R517,526 556 | S501 | S505 | S511 | S516 | W209,501, 502 | J2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | | | | |
| RUSSIA | Q5 | 3-81 | YES | YES | NO | YES | NO | CXP82852 -136Q | YES | YES | NO | MUTE | PTY | (RDS) DISPLAY | TA/ NEWS | NO | E11-0127-05 |

KRF-V6020 (X09-624X-XX)

| DESTINATION | | UNIT No. | Ⓐ | C534 | C535 | D504 | D505 | D507 | D510 | IC51 | IC52 | R509 | R517,526, 556 | S501 | S505 | S511 | S516 | W209,501, 502 | J2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | | | | | | |
| GENERAL MARKET | M6 | 0-22 | NO | YES | NO | YES | NO | NO | YES | CXP82832 -155Q | YES | NO | YES | SP B | DIMMER | P.CALL ⩔ | P.CALL ⩓ | YES | E11-0127-05 |
| MALAYSIA | I6 | | | | | | | | | | | | | | | | | | |
| AUSTRALIA | X6 | | | | | | | | | | | | | | | | | | |
| CHINA | C6 | | | | | | | | | | | | | | | | | | |
| EUROPE | E4 | 2-71 | YES | | | NO | YES | | | CXP82852 -136Q | | YES | NO | | PTY | (RDS) DISPLAY | TA/ NEWS | NO | |

KRF-V6020E (X09-6242-71)

| DESTINATION | | UNIT No. | Ⓐ | C534 | C535 | D504, 507 | D505, 510 | IC51 | IC52 | R509 | R517,526, 556 | S501 | S505 | S511 | S516 | W209,501, 502 | J2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | | | | |
| EUROPE | E5 | 2-71 | YES | YES | NO | NO | YES | CXP82852 -136Q | YES | YES | NO | SP B | PTY | (RDS) DISPLAY | TA/ NEWS | NO | E11-0127-05 |

KRF-V6020W (X09-6243-82)

| DESTINATION | | UNIT No. | Ⓐ | C534 | C535 | D504,507, 510 | D505 | IC51 | IC52 | R509 | R517,526, 556 | S501 | S505 | S511 | S516 | W209,501, 502 | J2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | | | | |
| RUSSIA | Q6 | 3-82 | YES | YES | NO | YES | NO | CXP82852 -136Q | YES | YES | NO | SP B | PTY | (RDS) DISPLAY | TA/ NEWS | NO | E11-0127-05 |

KRF-V7020 (X09-6262-70)

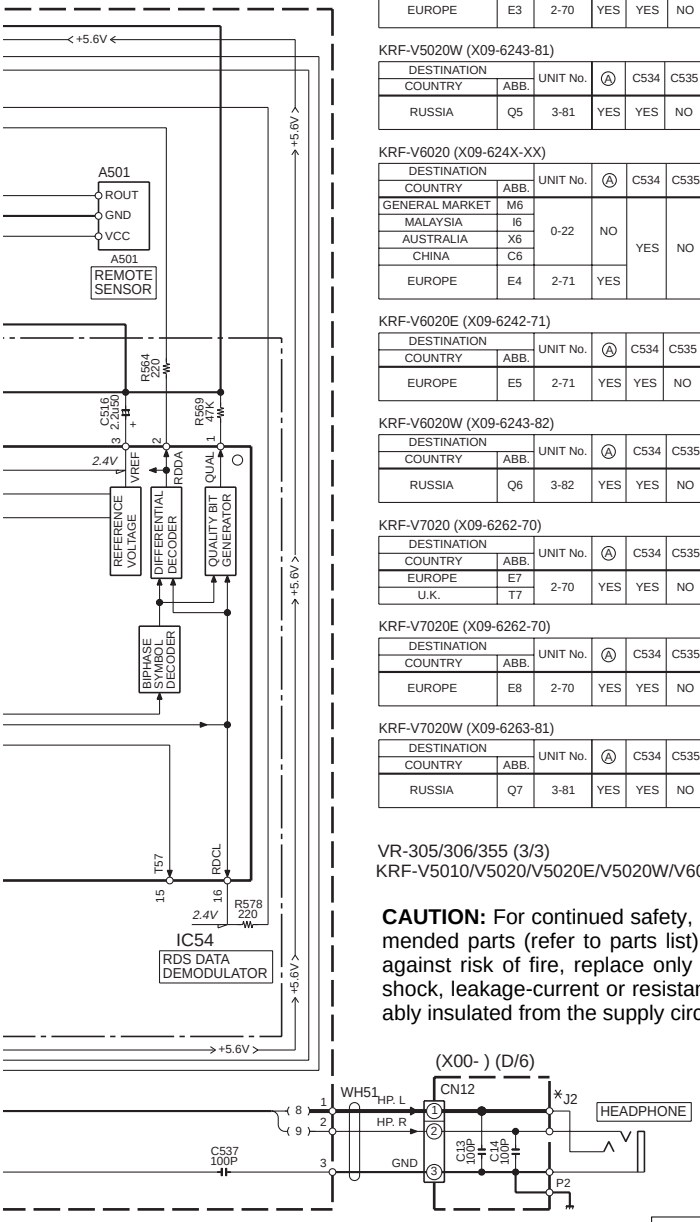
| DESTINATION | | UNIT No. | Ⓐ | C534 | C535 | D504, 507 | D505, 510 | IC51 | IC52 | R509 | R517,526, 556 | S501 | S505 | S511 | S516 | W209,501, 502 | J2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | | | | |
| EUROPE | E7 | 2-70 | YES | YES | NO | NO | YES | CXP82852 -136Q | YES | YES | NO | SP B | PTY | (RDS) DISPLAY | TA/ NEWS | NO | E11-0127-05 |
| U.K. | T7 | | | | | | | | | | | | | | | | |

KRF-V7020E (X09-6262-70)

| DESTINATION | | UNIT No. | Ⓐ | C534 | C535 | D504, 507 | D505, 510 | IC51 | IC52 | R509 | R517,526, 556 | S501 | S505 | S511 | S516 | W209,501, 502 | J2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | | | | |
| EUROPE | E8 | 2-70 | YES | YES | NO | NO | YES | CXP82852 -136Q | YES | YES | NO | SP B | PTY | (RDS) DISPLAY | TA/ NEWS | NO | E11-0127-05 |

KRF-V7020W (X09-6263-81)

| DESTINATION | | UNIT No. | Ⓐ | C534 | C535 | D504,507, 510 | D505 | IC51 | IC52 | R509 | R517,526, 556 | S501 | S505 | S511 | S516 | W209,501, 502 | J2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COUNTRY | ABB. | | | | | | | | | | | | | | | | |
| RUSSIA | Q7 | 3-81 | YES | YES | NO | YES | NO | CXP82852 -136Q | YES | YES | NO | SP B | PTY | (RDS) DISPLAY | TA/ NEWS | NO | E11-0127-05 |







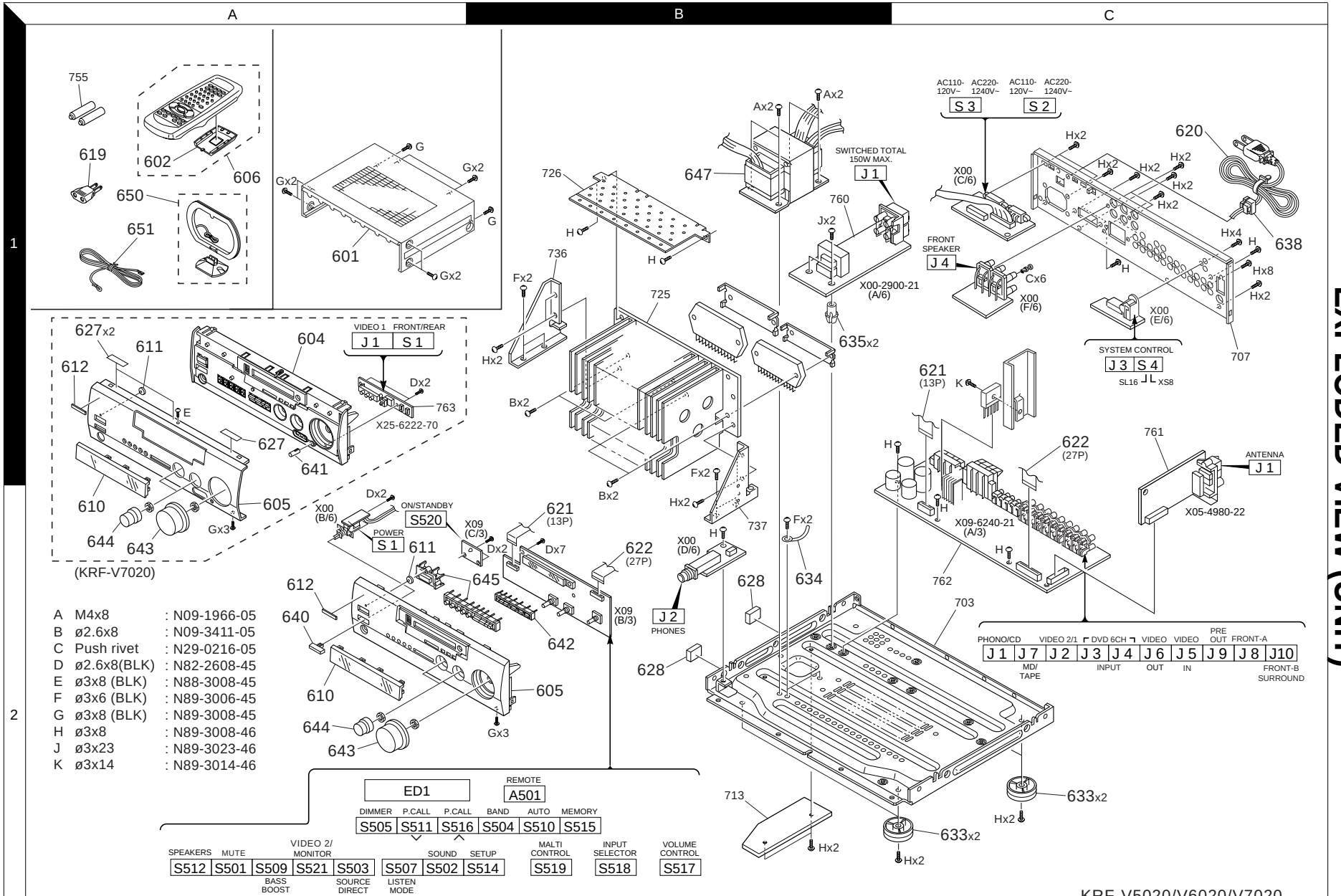
VR-305/306/355 (3/3)
KRF-V5010/V5020/V5020E/V5020W/V6020/V6020E/V6020W/V7020/V7020E/V7020W (3/3)

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

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

# KRF-V5020/V6020/V7020/VR-305/306/355

## EXPLODED VIEW (UNIT)




Parts with exploded numbers larger than 700 are not supplied.

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

❶

| Ref. No | Address | New Parts | Parts No. | Description | Destination | Remarks |
|---|---|---|---|---|---|---|
| | | | **KRF-V7020/V7020E/V7020W** | | | |
| 601 | 1A | | A01-3686-01 | METALLIC CABINET | | |
| 602 | 1A | | A09-0366-08 | BATTERY COVER | | |
| 604 | 1A | ✻ | A22-1806-11 | SUB PANEL | | |
| 605 | 1A | ✻ | A60-1597-02 | PANEL | | |
| 606 | 1A | | A70-1275-05 | REMOTE CONTROLLER (RC-R0508) | | |
| 610 | 2A | | B10-3425-02 | FRONT GLASS | | |
| 611 | 1A | | B12-0341-04 | INDICATOR | | |
| 612 | 1A | | B43-0302-04 | KENWOOD BADGE | | |
| - | | | B46-0310-03 | WARRANTY CARD | | |
| - | | | B58-0945-03 | CAUTION CARD | T7 | |
| - | | | B58-0965-13 | CAUTION CARD (T,X/PL) | T7 | |
| - | | | B58-0966-13 | CAUTION CARD (ELM/PL) | E8 | |
| - | | | B58-1526-03 | CAUTION CARD (P4,ORI,A4,1(Q) | Q7 | |
| - | | | B58-1607-03 | CAUTION CARD | E8 | |
| - | | ✻ | B60-4148-00 | INSTRUCTION MANUAL(EN)RC | E8T7Q7 | |
| - | | | B60-4149-00 | INSTRUCTION MANUAL(5-LANG)RC | E7 | |
| - | | ✻ | B60-4150-00 | INSTRUCTION MANUAL(PL/HU/CZ)RC | E8 | |
| - | | ✻ | B60-4151-00 | INSTRUCTION MANUAL(RU)RC | Q7 | |
| - | | | B60-4155-00 | INSTRUCTION MANUAL(EN) | E8T7Q7 | |
| - | | | B60-4156-00 | INSTRUCTION MANUAL(FR/NE) | E7 | |
| - | | | B60-4157-00 | INSTRUCTION MANUAL(IT/ES) | E7 | |
| - | | | B60-4158-00 | INSTRUCTION MANUAL(GE) | E7 | |
| - | | | B60-4159-00 | INSTRUCTION MANUAL(PL) | E8 | |
| - | | | B60-4160-00 | INSTRUCTION MANUAL(HU/CZ) | E8 | |
| - | | | B60-4161-00 | INSTRUCTION MANUAL(RU) | Q7 | |
| ⚠ 620 | 1C | | E30-2592-15 | AC POWER CORD | E7E8Q7 | |
| ⚠ 620 | 1C | | E30-2721-05 | AC POWER CORD | T7 | |
| 621 | 2B, 1C | | E35-2017-05 | FLAT CABLE 13P | | |
| 622 | 2B, 1C | | E35-2042-05 | FLAT CABLE 27P | | |
| ⚠ F1 | | | F05-3121-05 | FUSE (SEMKO) (250V T3.15AL) | | |
| ⚠ F3 | | | F05-2525-05 | FUSE (SEMKO) (250V T2.5AL) | E7E8Q7 | |
| 627 | 1A | | G10-0481-04 | NON-WOVEN FABRIC | | |
| 628 | 2B | | G11-2416-04 | CUSHION | | |
| - | | | H10-7552-02 | POLYSTYRENE FOAMED FIXTURE(L) | | |
| - | | | H10-7553-02 | POLYSTYRENE FOAMED FIXTURE(R) | | |
| - | | | H25-0232-04 | PROTECTION BAG (235X350X0.03) | E7E8Q7 | |
| - | | | H25-0391-04 | PROTECTION BAG | | |
| - | | | H25-0651-04 | PROTECTION BAG (0232) | T7 | |
| - | | ✻ | H50-3233-04 | ITEM CARTON CASE | E7T7 | |
| - | | ✻ | H50-3235-04 | ITEM CARTON CASE | E8 | |
| - | | ✻ | H50-3236-04 | ITEM CARTON CASE | Q7 | |
| 633 | 2C | | J02-1168-03 | FOOT GOLD | | |
| 634 | 2B | | J19-2808-05 | HOLDER | | |
| 635 | 1B | | J19-3752-14 | UNIT HOLDER | | |
| ⚠ 638 | 1C | | J42-0083-05 | POWER CORD BUSHING | | |
| - | | | J61-0081-05 | WIRE BAND | | |
| - | | | J61-0307-05 | WIRE BAND | | |
| 640 | 2A | | K27-2275-04 | KNOB (BUTTON) PUSH | | |
| 641 | 1A | ✻ | K27-2342-04 | KNOB (BUTTON) F.AUX | | |
| 642 | 2B | | K29-7311-03 | KNOB RDS | | |
| 643 | 2A | | K29-7312-04 | KNOB D54 | | |

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❷

| Ref. No | Address | New Parts | Parts No. | Description | Destination | Remarks |
|---|---|---|---|---|---|---|
| 644 | 2A | | K29-7313-04 | KNOB D33 | | |
| ⚠ 647 | 1B | ✻ | L07-2699-05 | POWER TRANSFORMER | E7E8T7 | |
| ⚠ 647 | 1B | ✻ | L07-2700-05 | POWER TRANSFORMER | Q7 | |
| 650 | 1A | | T90-0833-05 | LOOP ANTENNA | | |
| 651 | 1A | | T90-0836-05 | LEAD WIRE ANTENNA | | |
| | | | **KRF-V6020/V6020E/V6020W** | | | |
| 601 | 1A | ✻ | A01-3613-01 | METALLIC CABINET | V6 | |
| 601 | 1A | ✻ | A01-3687-01 | METALLIC CABINET | C6X6I6 | |
| 601 | 1A | ✻ | A01-3687-01 | METALLIC CABINET | E4E5Q6 | |
| 601 | 1A | ✻ | A01-3687-01 | METALLIC CABINET | M6 | |
| 602 | 1A | ✻ | A09-0366-08 | BATTERY COVER | E4 | |
| 602 | 1A | ✻ | A09-1123-08 | BATTERY COVER | C6X6I6 | |
| 602 | 1A | ✻ | A09-1123-08 | BATTERY COVER | E5Q6M6 | |
| 602 | 1A | ✻ | A09-1123-08 | BATTERY COVER | V6 | |
| 605 | 2B | ✻ | A60-1600-01 | PANEL | E4E5Q6 | |
| 605 | 2B | ✻ | A60-1601-01 | PANEL | M6X6I6 | |
| 605 | 2B | ✻ | A60-1602-01 | PANEL | C6 | |
| 605 | 2B | ✻ | A60-1663-01 | PANEL | V6 | |
| 606 | 1A | ✻ | A70-1264-05 | REMOTE CONTROLLER (RC-R0711) | I6 | |
| 606 | 1A | ✻ | A70-1264-05 | REMOTE CONTROLLER (RC-R0711) | M6C6X6 | |
| 606 | 1A | ✻ | A70-1264-05 | REMOTE CONTROLLER (RC-R0711) | V6 | |
| 606 | 1A | | A70-1265-05 | REMOTE CONTROLLER (RC-R0710) | E5Q6 | |
| 606 | 1A | ✻ | A70-1275-05 | REMOTE CONTROLLER (RC-R0508) | E4 | |
| 610 | 2A | | B10-2439-02 | FRONT GLASS | V6 | |
| 610 | 2A | | B10-3425-02 | FRONT GLASS | | |
| 611 | 2A | | B12-0334-14 | INDICATOR | V6 | |
| 611 | 2A | | B12-0341-04 | INDICATOR | | |
| 612 | 2A | | B43-0302-04 | KENWOOD BADGE | | |
| - | | | B46-0096-53 | WARRANTY CARD | X6 | |
| - | | | B46-0310-03 | WARRANTY CARD | E4E5Q6 | |
| - | | | B46-0343-03 | WARRANTY CARD | C6 | |
| - | | | B46-0344-03 | WARRANTY CARD | V6 | |
| - | | | B58-0965-13 | CAUTION CARD (T,X/PL) | X6 | |
| - | | | B58-0966-13 | CAUTION CARD (ELM/P) | E4M6I6 | |
| - | | | B58-1526-03 | CAUTION CARD (P4,ORI,A4,1(Q) | Q6 | |
| - | | | B58-1546-03 | CAUTION CARD | C6V6 | |
| - | | | B58-1607-03 | CAUTION CARD | E5 | |
| - | | ✻ | B60-4132-00 | INSTRUCTION MANUAL(TC) | M6I6 | |
| - | | ✻ | B60-4149-00 | INSTRUCTION MANUAL(5-LAN)RC | E4 | |
| - | | ✻ | B60-4152-00 | INSTRUCTION MANUAL(EN) | M6X6I6 | |
| - | | ✻ | B60-4155-00 | INSTRUCTION MANUAL(EN) | E5Q6 | |
| - | | ✻ | B60-4156-00 | INSTRUCTION MANUAL(FR/NE) | E4 | |
| - | | ✻ | B60-4157-00 | INSTRUCTION MANUAL(IT/ES) | E4 | |
| - | | ✻ | B60-4158-00 | INSTRUCTION MANUAL(GE) | E4 | |
| - | | ✻ | B60-4159-00 | INSTRUCTION MANUAL(PL) | E5 | |
| - | | ✻ | B60-4160-00 | INSTRUCTION MANUAL(HU/CZ) | E5 | |
| - | | ✻ | B60-4161-00 | INSTRUCTION MANUAL(RU) | Q6 | |
| - | | ✻ | B60-4162-00 | INSTRUCTION MANUAL(SC) | C6 | |
| ⚠ 619 | 1A | | E03-0115-05 | AC PLUG ADAPTER | M6I6 | |
| ⚠ 620 | 1C | | E30-2592-15 | AC POWER CORD | E4E5Q6 | |
| ⚠ 620 | 1C | | E30-2592-15 | AC POWER CORD | M6I6 | |
| ⚠ 620 | 1C | | E30-2717-05 | AC POWER CORD | X6 | |
| ⚠ 620 | 1C | | E30-2824-15 | AC POWER CORD | V6 | |

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❸

| | Ref. No | Address | New Parts | Parts No. | Description | Destination | Remarks |
|---|---|---|---|---|---|---|---|
| ⚠ | 620 | 1C | | E30-2870-05 | AC POWER CORD | C6 | |
| | 621 | 2B, 1C | | E35-2017-05 | FLAT CABLE 13P | | |
| | 622 | 2B, 1C | | E35-2042-05 | FLAT CABLE 27P | | |
| ⚠ | F1 | | | F05-3121-05 | FUSE (SEMKO) (250V T3.15AL) | C6X6I6 | |
| ⚠ | F1 | | | F05-3121-05 | FUSE (SEMKO) (250V T3.15AL) | E4E5Q6 | |
| ⚠ | F1 | | | F05-3121-05 | FUSE (SEMKO) (250V T3.15AL) | M6 | |
| ⚠ | F1 | | | F50-0101-05 | FUSE(5X20) (250V T3,15AL) | V6 | |
| ⚠ | F2 | | | F05-3121-05 | FUSE (SEMKO) (250V T3.15AL) | M6I6 | |
| ⚠ | F3 | | | F05-2525-05 | FUSE (SEMKO) (250V T2.5AL) | E4E5Q6 | |
| | 628 | 2B | | G11-2416-04 | CUSHION | | |
| | - | | ✻ | H10-7552-02 | POLYSTYRENE FOAMED FIXTURE(L) | C6X6I6 | |
| | - | | ✻ | H10-7552-02 | POLYSTYRENE FOAMED FIXTURE(L) | E4E5Q6 | |
| | - | | ✻ | H10-7552-02 | POLYSTYRENE FOAMED FIXTURE(L) | M6 | |
| | - | | ✻ | H10-7553-02 | POLYSTYRENE FOAMED FIXTURE(R) | C6X6I6 | |
| | - | | ✻ | H10-7553-02 | POLYSTYRENE FOAMED FIXTURE(R) | E4E5Q6 | |
| | - | | ✻ | H10-7553-02 | POLYSTYRENE FOAMED FIXTURE(R) | M6 | |
| | - | | | H10-7554-02 | POLYSTYRENE FOAMED FIXTURE | V6 | |
| | - | | | H10-7555-02 | POLYSTYRENE FOAMED FIXTURE | V6 | |
| | - | | | H25-0232-04 | PROTECTION BAG (235X350X0.03) | | |
| | - | | | H25-0391-04 | PROTECTION BAG | | |
| | - | | ✻ | H50-3237-04 | ITEM CARTON CASE | E4X6 | |
| | - | | ✻ | H50-3238-04 | ITEM CARTON CASE | E5 | |
| | - | | ✻ | H50-3239-04 | ITEM CARTON CASE | Q6 | |
| | - | | ✻ | H50-3240-04 | ITEM CARTON CASE | M6I6 | |
| | - | | ✻ | H50-3241-04 | ITEM CARTON CASE | C6 | |
| | - | | ✻ | H50-3259-04 | ITEM CARTON CASE | V6 | |
| | 633 | 2C | | J02-1167-03 | FOOT | V6 | |
| | 633 | 2C | | J02-1168-03 | FOOT GOLD | C6X6I6 | |
| | 633 | 2C | | J02-1168-03 | FOOT GOLD | E4E5Q6 | |
| | 633 | 2C | | J02-1168-03 | FOOT GOLD | M6 | |
| | 634 | 2B | | J19-2808-05 | HOLDER | | |
| | 635 | 1B | | J19-3752-14 | UNIT HOLDER | C6X6I6 | |
| | 635 | 1B | | J19-3752-14 | UNIT HOLDER | E4E5Q6 | |
| | 635 | 1B | | J19-3752-14 | UNIT HOLDER | M6 | |
| | 635 | 1B | | J19-5787-04 | UNIT HOLDER | V6 | |
| ⚠ | 638 | 1C | | J42-0083-05 | POWER CORD BUSHING | | |
| | - | | | J61-0307-05 | WIRE BAND | | |
| | 640 | 2A | | K27-2185-04 | KNOB (BUTTON) PUSH | V6 | |
| | 640 | 2A | | K27-2275-04 | KNOB (BUTTON) PUSH | C6X6I6 | |
| | 640 | 2A | | K27-2275-04 | KNOB (BUTTON) PUSH | E4E5Q6 | |
| | 640 | 2A | | K27-2275-04 | KNOB (BUTTON) PUSH | M6 | |
| | 642 | 2B | | K29-7310-03 | KNOB TUNER | I6 | |
| | 642 | 2B | | K29-7310-03 | KNOB TUNER | M6C6X6 | |
| | 642 | 2B | | K29-7311-03 | KNOB RDS | E4E5Q6 | |
| | 642 | 2B | | K29-7366-03 | KNOB TUNER | V6 | |
| | 643 | 2A | | K29-7306-14 | KNOB D54 | V6 | |
| | 643 | 2A | | K29-7312-04 | KNOB D54 | C6X6I6 | |
| | 643 | 2A | | K29-7312-04 | KNOB D54 | E4E5Q6 | |
| | 643 | 2A | | K29-7312-04 | KNOB D54 | M6 | |
| | 644 | 2A | | K29-7307-14 | KNOB D33 | V6 | |
| | 644 | 2A | | K29-7313-04 | KNOB D33 | C6X6I6 | |
| | 644 | 2A | | K29-7313-04 | KNOB D33 | E4E5Q6 | |

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❹

| | Ref. No | Address | New Parts | Parts No. | Description | Destination | Remarks |
|---|---|---|---|---|---|---|---|
| | 644 | 2A | | K29-7313-04 | KNOB D33 | M6 | |
| | 645 | 2B | | K29-7309-02 | KNOB POWER | C6X6I6 | |
| | 645 | 2B | | K29-7309-02 | KNOB POWER | E4E5Q6 | |
| | 645 | 2B | | K29-7309-02 | KNOB POWER | M6 | |
| | 645 | 2B | | K29-7365-12 | KNOB POWER | V6 | |
| ⚠ | 647 | 1B | ✻ | L07-2702-05 | POWER TRANSFORMER | M6I6 | |
| ⚠ | 647 | 1B | ✻ | L07-2703-05 | POWER TRANSFORMER | X6 | |
| ⚠ | 647 | 1B | ✻ | L07-2704-05 | POWER TRANSFORMER | E4E5 | |
| ⚠ | 647 | 1B | ✻ | L07-2705-05 | POWER TRANSFORMER | Q6C6 | |
| ⚠ | 647 | 1B | | L07-2709-05 | POWER TRANSFORMER | V6 | |
| | 650 | 1A | | T90-0833-05 | LOOP ANTENNA | | |
| | 651 | 1A | | T90-0836-05 | LEAD WIRE ANTENNA | | |
| | **KRF-V5020/V5020E/V5020W/V5020(S)** | | | | | | |
| | 601 | 1A | | A01-3650-01 | METALLIC CABINET | E2 | |
| | 601 | 1A | ✻ | A01-3687-01 | METALLIC CABINET | E1E3T5 | |
| | 601 | 1A | ✻ | A01-3687-01 | METALLIC CABINET | Q5Y5M5 | |
| | 601 | 1A | ✻ | A01-3687-01 | METALLIC CABINET | X5I5 | |
| | 602 | 1A | ✻ | A09-1123-08 | BATTERY COVER | | |
| | 605 | 2B | ✻ | A60-1598-01 | PANEL | E2 | |
| | 605 | 2B | ✻ | A60-1604-01 | PANEL | Y5 | |
| | 605 | 2B | ✻ | A60-1605-01 | PANEL | M5X5I5 | |
| | 605 | 2B | ✻ | A60-1606-01 | PANEL | E1E3T5 | |
| | 605 | 2B | ✻ | A60-1606-01 | PANEL | Q5 | |
| | 606 | 1A | ✻ | A70-1264-05 | REMOTE CONTROLLER(RC-R0711) | I5 | |
| | 606 | 1A | ✻ | A70-1264-05 | REMOTE CONTROLLER(RC-R0711) | Y5M5X5 | |
| | 606 | 1A | ✻ | A70-1265-05 | REMOTE CONTROLLER(RC-R0710) | E1E2E3 | |
| | 606 | 1A | ✻ | A70-1265-05 | REMOTE CONTROLLER(RC-R0710) | T5Q5 | |
| | 610 | 2A | | B10-3425-02 | FRONT GLASS | | |
| | 611 | 2A | | B12-0341-04 | INDICATOR | | |
| | 612 | 2A | | B43-0302-04 | KENWOOD BADGE | | |
| | - | | | B46-0096-53 | WARRANTY CARD | X5 | |
| | - | | | B46-0310-03 | WARRANTY CARD | E1E2E3 | |
| | - | | | B46-0310-03 | WARRANTY CARD | T5Q5 | |
| | - | | | B46-0330-03 | WARRANTY CARD | Y5 | |
| | - | | | B58-0513-04 | CAUTION CARD (PRESET220-240) | Y5 | |
| | - | | | B58-0945-03 | CAUTION CARD | T5 | |
| | - | | | B58-0964-13 | CAUTION CARD (UL) | Y5 | |
| | - | | | B58-0965-13 | CAUTION CARD (T,X/PL) | T5X5 | |
| | - | | | B58-0966-13 | CAUTION CARD (ELM/PL) | E1E2M5 | |
| | - | | | B58-0966-13 | CAUTION CARD (ELM/PL) | I5 | |
| | - | | | B58-1526-03 | CAUTION CARD (P4,ORI,A4,1(Q) | Q5 | |
| | - | | | B58-1607-03 | CAUTION CARD | E3 | |
| | - | | | B59-1104-00 | SERVICE DIRECTORY | Y5 | |
| | - | | | B60-4132-00 | INSTRUCTION MANUAL(TC) | I5 | |
| | - | | | B60-4152-00 | INSTRUCTION MANUAL(EN) | I5 | |
| | - | | | B60-4152-00 | INSTRUCTION MANUAL(EN) | Y1M5X5 | |
| | - | | ✻ | B60-4154-00 | INSTRUCTION MANUAL(ES/TC) M5 | | |
| | - | | | B60-4155-00 | INSTRUCTION MANUAL(EN) | E3T5Q5 | |
| | - | | | B60-4156-00 | INSTRUCTION MANUAL(FR/EN) | E1E2 | |
| | - | | | B60-4157-00 | INSTRUCTION MANUAL(IT/ES) | E1E2 | |
| | - | | | B60-4158-00 | INSTRUCTION MANUAL(GE) | E1E2 | |
| | - | | | B60-4159-00 | INSTRUCTION MANUAL(PL) | E3 | |
| | - | | | B60-4160-00 | INSTRUCTION MANUAL(HU/CZ) | E3 | |
| | - | | | B60-4161-00 | INSTRUCTION MANUAL(RU) | Q5 | |

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|---|---|---|---|---|---|---|---|
| ⚠ | 619 | 1A | | E03-0115-05 | AC PLUG ADAPTER | M5I5 | |
| ⚠ | 620 | 1C | | E30-2592-15 | AC POWER CORD | E1E2E3 | |
| ⚠ | 620 | 1C | | E30-2592-15 | AC POWER CORD | Q5M5I5 | |
| ⚠ | 620 | 1C | | E30-2605-05 | AC POWER CORD | Y5 | |
| ⚠ | 620 | 1C | | E30-2717-05 | AC POWER CORD | X5 | |
| ⚠ | 620 | 1C | | E30-2721-05 | AC POWER CORD | T5 | |
| | 621 | 2B, 1C | | E35-2017-05 | FLAT CABLE 13P | | |
| | 622 | 2B, 1C | | E35-2042-05 | FLAT CABLE 27P | | |
| ⚠ | F1 | | | F05-3121-05 | FUSE (SEMKO) (250V T3.15AL) | | |
| ⚠ | F2 | | | F05-3121-05 | FUSE (SEMKO) (250V T3.15AL) | Y5M5I5 | |
| ⚠ | F3 | | | F05-2525-05 | FUSE (SEMKO) (250V T2.5AL) | E1E2E3 | |
| ⚠ | F3 | | | F05-2525-05 | FUSE (SEMKO) (250V T2.5AL) | Q5 | |
| | 628 | 2B | | G11-2416-04 | CUSHION | | |
| | - | | | H10-7552-02 | POLYSTYRENE FOAMED FIXTURE(L) | | |
| | - | | | H10-7553-02 | POLYSTYRENE FOAMED FIXTURE(R) | | |
| | - | | | H25-0232-04 | PROTECTION BAG (235X350X0.03) | E1E2E3 | |
| | - | | | H25-0232-04 | PROTECTION BAG (235X350X0.03) | Q5Y5M5 | |
| | - | | | H25-0232-04 | PROTECTION BAG (235X350X0.03) | X5I5 | |
| | - | | | H25-0391-04 | PROTECTION BAG | | |
| | - | | | H25-0651-04 | PROTECTION BAG (0232) | T5 | |
| | - | | ✻ | H50-3243-04 | ITEM CARTON CASE | E1T5Y5 | |
| | - | | ✻ | H50-3243-04 | ITEM CARTON CASE | X5 | |
| | - | | ✻ | H50-3244-04 | ITEM CARTON CASE | M5I5 | |
| | - | | ✻ | H50-3245-04 | ITEM CARTON CASE | E3 | |
| | - | | ✻ | H50-3246-04 | ITEM CARTON CASE | Q5 | |
| | - | | ✻ | H50-3257-04 | ITEM CARTON CASE | E2 | |
| | 633 | 2C | | J02-1168-03 | FOOT GOLD | E1E2E3 | |
| | 633 | 2C | | J02-1168-03 | FOOT GOLD | T5Q5M5 | |
| | 633 | 2C | | J02-1168-03 | FOOT GOLD | X5I5 | |
| | 633 | 2C | | J02-1407-03 | FOOT TIN (D=46,H=14.5,T) | Y5 | |
| | 634 | 2B | | J19-2808-05 | HOLDER | | |
| | 635 | 1B | | J19-3752-14 | UNIT HOLDER | | |
| ⚠ | 638 | 1C | | J42-0083-05 | POWER CORD BUSHING | | |
| | - | | | J61-0307-05 | WIRE BAND | | |
| | 640 | 2A | | K27-2275-04 | KNOB (BUTTON) PUSH | E1E3T5 | |
| | 640 | 2A | | K27-2275-04 | KNOB (BUTTON) PUSH | I5 | |
| | 640 | 2A | | K27-2275-04 | KNOB (BUTTON) PUSH | Q5M5X5 | |
| | 640 | 2A | | K27-2293-04 | KNOB (BUTTON) PUSH,GOLD | Y5 | |
| | 640 | 2A | | K27-2312-04 | KNOB (BUTTON) PUSH,SILVER | E2 | |
| | 642 | 2B | | K29-7310-03 | KNOB TUNER | M5X5I5 | |
| | 642 | 2B | | K29-7311-03 | KNOB RDS | E1E3T5 | |
| | 642 | 2B | | K29-7311-03 | KNOB RDS | Q5 | |
| | 642 | 2B | | K29-7323-03 | KNOB TUNER,GOLD | Y5 | |
| | 642 | 2B | | K29-7428-03 | KNOB TUNER,SILVER | E2 | |
| | 643 | 2A | | K29-7312-04 | KNOB D54 | E1E3T5 | |
| | 643 | 2A | | K29-7312-04 | KNOB D54 | I5 | |
| | 643 | 2A | | K29-7312-04 | KNOB D54 | Q5M5X5 | |
| | 643 | 2A | | K29-7325-04 | KNOB D54,GOLD | Y5 | |
| | 643 | 2A | | K29-7429-04 | KNOB D54,SILVER | E2 | |
| | 644 | 2A | | K29-7313-04 | KNOB D33 | E1E3T5 | |
| | 644 | 2A | | K29-7313-04 | KNOB D33 | I5 | |
| | 644 | 2A | | K29-7313-04 | KNOB D33 | Q5M5X5 | |
| | 644 | 2A | | K29-7326-04 | KNOB D33,GOLD | Y5 | |
| | 644 | 2A | | K29-7430-04 | KNOB D33,SILVER | E2 | |

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| | 645 | 2B | | K29-7309-02 | KNOB POWER | E1E3T5 | |
| | 645 | 2B | | K29-7309-02 | KNOB POWER | I5 | |
| | 645 | 2B | | K29-7309-02 | KNOB POWER | Q5M5X5 | |
| | 645 | 2B | | K29-7321-02 | KNOB POWER,GOLD | Y5 | |
| | 645 | 2B | | K29-7427-02 | KNOB POWER,SILVER | E2 | |
| ⚠ | 647 | 1B | | L07-2702-05 | POWER TRANSFORMER | Y5M5I5 | |
| ⚠ | 647 | 1B | | L07-2703-05 | POWER TRANSFORMER | X5 | |
| ⚠ | 647 | 1B | | L07-2704-05 | POWER TRANSFORMER | E1E2E3 | |
| ⚠ | 647 | 1B | | L07-2704-05 | POWER TRANSFORMER | T5 | |
| ⚠ | 647 | 1B | | L07-2705-05 | POWER TRANSFORMER | Q5 | |
| | 650 | 1A | | T90-0833-05 | LOOP ANTENNA | | |
| | 651 | 1A | | T90-0836-05 | LEAD WIRE ANTENNA | | |

## VR-305/306/355

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 601 | 1A | | A01-3533-01 | METALLIC CABINET | | |
| | 602 | 1A | | A09-0366-08 | BATTERY COVER | K3P3 | |
| | 602 | 1A | ✻ | A09-1123-08 | BATTERY COVER | K1P1K2 | |
| | 602 | 1A | ✻ | A09-1123-08 | BATTERY COVER | P2 | |
| | 605 | 1B | ✻ | A60-1596-01 | PANEL | K1P1 | |
| | 605 | 1B | ✻ | A60-1603-01 | PANEL | K2P2 | |
| | 605 | 1B | ✻ | A60-1607-01 | PANEL | K3P3 | |
| | 606 | 1A | ✻ | A70-1264-05 | REMOTE CONTROLLER(RC-R0711) | K1P1K1 | |
| | 606 | 1A | ✻ | A70-1264-05 | REMOTE CONTROLLER(RC-R0711) | P2 | |
| | 606 | 1A | ✻ | A70-1271-05 | REMOTE CONTROLLER(RC-R0608) | K3P3 | |
| | 610 | 2A | | B10-2439-02 | FRONT GLASS | | |
| | 611 | 2A | | B12-0334-14 | INDICATOR | | |
| | 612 | 2A | | B43-0302-04 | KENWOOD BADGE | | |
| | - | | | B46-0197-00 | QUESTIONNAIRE CARD | K1K2K3 | |
| | - | | | B46-0330-03 | WARRANTY CARD | K1K2K3 | |
| | - | | | B46-0336-03 | WARRANTY CARD | P1P2P3 | |
| | - | | | B58-0964-13 | CAUTION CARD (UL) | K1K2K3 | |
| | - | | | B58-0967-03 | CAUTION CARD (P/PL) | P1P2P3 | |
| | - | | ✻ | B60-4144-00 | INSTRUCTION MANUAL(EN)RC | K3P3 | |
| | - | | ✻ | B60-4145-00 | INSTRUCTION MANUAL(FR)RC | P3 | |
| | - | | ✻ | B60-4152-00 | INSTRUCTION MANUAL(EN) | | |
| | - | | ✻ | B60-4153-00 | INSTRUCTION MANUAL(FR) | P1P2P3 | |
| ⚠ | 620 | 1C | ✻ | E30-2909-05 | AC POWER CORD | | |
| | 621 | 2B, 1C | | E35-2017-05 | FLAT CABLE 13P | | |
| | 622 | 2B, 1C | | E35-2042-05 | FLAT CABLE 27P | | |
| ⚠ | F1 | | | F50-0077-05 | FUSE(5X20) | | |
| | 628 | 2B | ✻ | G11-2415-04 | CUSHION | | |
| | - | | ✻ | H10-7554-02 | POLYSTYRENE FOAMED FIXTURE(L) | | |
| | - | | ✻ | H10-7555-02 | POLYSTYRENE FOAMED FIXTURE(R) | | |
| | - | | | H25-0232-04 | PROTECTION BAG (235X350X0.03) | | |
| | - | | | H25-0391-04 | PROTECTION BAG | | |
| | - | | ✻ | H50-3232-04 | ITEM CARTON CASE | K1P1 | |
| | - | | ✻ | H50-3242-04 | ITEM CARTON CASE | K2P2 | |
| | - | | ✻ | H50-3247-04 | ITEM CARTON CASE | K3P3 | |
| | 633 | 2C | | J02-1405-03 | FOOT (D=46,H=14.5,T) | | |
| | 634 | 2B | | J19-2808-05 | HOLDER | | |
| | 635 | 1B | | J19-5787-04 | UNIT HOLDER | | |
| ⚠ | 638 | 1C | | J42-0083-05 | POWER CORD BUSHING | | |
| | - | | | J61-0307-05 | WIRE BAND | | |

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| 640 | 2A | | K29-6939-12 | KNOB | | |
| 642 | 2B | | K29-6898-03 | KNOB TUNER | | |
| 643 | 2A | | K29-6880-04 | KNOB D54 | | |
| 644 | 2A | | K29-6881-04 | KNOB D33 | | |
| ⚠ 647 | 1B | ✻ | L07-2697-05 | POWER TRANSFORMER | K1P1 | |
| ⚠ 647 | 1B | ✻ | L07-2701-05 | POWER TRANSFORMER | K2P2K3 | |
| ⚠ 647 | 1B | ✻ | L07-2701-05 | POWER TRANSFORMER | P3 | |
| 650 | 1A | | T90-0833-05 | LOOP ANTENNA | | |
| 651 | 1A | | T90-0836-05 | LEAD WIRE ANTENNA | | |
| **POWER SUPPLY (X00-2880-10/X00-2890-10/X00-2902-70)** | | | | | | |
| C5, 6 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C7 | | | CE04DW1E331M | ELECTRO 330UF 25WV | | |
| C8 | | | CK45FB1H102K | CERAMIC 1000PF K | | |
| C9 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C10 | | | CE04KW1C470M | ELECTRO 47UF 16WV | | |
| C11 | | | CE04KW1V4R7M | ELECTRO 4.7UF 35WV | | |
| C13, 14 | | | CC45FSL1H101J | CERAMIC 100PF J | KPXCET | |
| C13, 14 | | | CC45FSL1H101J | CERAMIC 100PF J | QMIY | |
| C13, 14 | | | CC45FSL1H151J | CERAMIC 150PF J | V | |
| C21, 22 | | | CC45FSL1H221J | CERAMIC 220PF J | | |
| C23~25 | | | CK45FF1H472Z | CERAMIC 4700PF Z | 67 | |
| C26 | | | C91-1488-05 | MF 6800PF 250VAC | V | |
| CN1 | | | E40-4245-05 | PIN ASSY | | |
| CN2 | | | E40-4245-05 | PIN ASSY | EQXTCV | |
| CN2 | | | E40-4245-05 | PIN ASSY | KP | |
| CN3 | | | E40-4245-05 | PIN ASSY | EQXTCV | |
| CN3 | | | E40-4245-05 | PIN ASSY | YMI | |
| CN4 | | | E40-8197-05 | SOCKET FOR PIN ASSY | | |
| CN11 | | | E40-4281-05 | PIN ASSY | YMI | |
| CN12, 13 | | | E40-3247-05 | PIN ASSY | | |
| CN14 | | | E40-4101-05 | PIN ASSY | 67 | |
| ⚠ J1 | | | E03-0149-05 | AC OUTLET | EQMI | |
| ⚠ J1 | | | E03-0310-05 | AC OUTLET | T | |
| ⚠ J1 | | | E03-0325-05 | AC OUTLET | X | |
| ⚠ J1 | | | E03-0361-05 | AC OUTLET | CV | |
| J2 | | | E11-0127-05 | PHONE JACK (3P) | ETQMIY | |
| J2 | | | E11-0127-05 | PHONE JACK (3P) | XC | |
| J2 | | | E11-0295-05 | PHONE JACK (3P) | KPV | |
| J3 | | | E11-0293-05 | MINIATURE PHONE JACK(2P) | ETQMIYXC | |
| J3 | | | E11-0347-05 | MINIATURE PHONE JACK(2P) | KPV | |
| J4 | | | E70-0100-05 | SCREW TERMINAL BOARD | 67 | |
| CN5, 6 | | | J13-0075-05 | FUSE CLIP | | |
| CN7, 8 | | | J13-0075-05 | FUSE CLIP | YMI | |
| CN9, 10 | | | J13-0075-05 | FUSE CLIP | EQ | |
| E1 | | | J11-0808-05 | WIRE CLAMPER | | |
| ⚠ T1 | | | L07-2127-05 | POWER TRANSFORMER | KP | |
| ⚠ T1 | | | L07-2129-05 | POWER TRANSFORMER | V | |
| ⚠ T1 | | | L07-2568-05 | POWER TRANSFORMER | YMI | |
| ⚠ T1 | | | L07-2569-05 | POWER TRANSFORMER | EQXTC | |
| ⚠ R1 | | | R92-1844-05 | CARBON 3.3M J 1/2W | KP | |
| ⚠ K1 | | | S76-0070-05 | MAGNETIC RELAY | | |
| ⚠ S1 | | | S68-0088-05 | PUSH SWITCH | V | |

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| ⚠ S1 | | | S68-0100-05 | PUSH SWITCH | EQXTC | |
| ⚠ S1 | | | S68-0100-05 | PUSH SWITCH | YMI | |
| ⚠ S2, 3 | | | S62-0001-05 | SLIDE SWITCH | YMI | |
| S4 | | | S62-0034-05 | SLIDE SWITCH | | |
| ⚠ D1~4 | | | S5688B | DIODE | | |
| ⚠ D1~4 | | | 1SR139-400 | DIODE | | |
| D5 | | | HZS6.2N(B2) | ZENER DIODE | | |
| D5 | | | MTZJ6.2(B) | ZENER DIODE | | |
| D5 | | | RD6.2ES(B2) | ZENER DIODE | | |
| ⚠ D6, 7 | | | HSS104A | DIODE | | |
| ⚠ D6, 7 | | | 1SS133 | DIODE | | |
| ⚠ D8 | | | HZS2.7N(B2) | ZENER DIODE | | |
| ⚠ D8 | | | MTZJ2.7(B) | ZENER DIODE | | |
| ⚠ D8 | | | RD2.7ES(B2) | ZENER DIODE | | |
| D9 | | | HSS104A | DIODE | | |
| D9 | | | 1SS133 | DIODE | | |
| ⚠ Q1 | | | 2SC3940A(R,S) | TRANSISTOR | | |
| Q2 | | | 2SC2003(L,K) | TRANSISTOR | | |
| **TUNER (X05-4982-71/X05-5050-10/X05-5062-11)** | | | | | | |
| C1 | | | CK73FB1H223K | CHIP C 0.022UF K | | |
| C2 | | | CK73FB1H103K | CHIP C 0.010UF K | EQT | |
| C3 | | | CK73FB1H103K | CHIP C 0.010UF K | | |
| C5, 6 | | | CK73FB1H103K | CHIP C 0.010UF K | | |
| C7 | | | CE04LW1C470M | ELECTRO 47UF 16WV | | |
| C8 | | | CK73EB1H103K | CHIP C 0.010UF K | KP | |
| C8 | | | CK73EB1H103K | CHIP C 0.010UF K | MCXYIV | |
| C10 | | | CE04LW1C470M | ELECTRO 47UF 16WV | | |
| C11, 12 | | | 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 | | | CE04LW1H010M | ELECTRO 1.0UF 50WV | | |
| C18 | | | CC73FCH1H470J | CHIP C 47PF J | | |
| C19 | | | C90-3217-05 | ELECTRO 10UF 10WV | | |
| C20 | | | CK73FB1H473K | CHIP C 0.047UF K | | |
| 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 | EQT | |
| C25 | | | CC73FCH1H471J | CHIP C 470PF J | KP | |
| C25 | | | CC73FCH1H471J | CHIP C 470PF J | MCXYIV | |
| C26 | | | CK73FB1H183K | CHIP C 0.018UF K | EQT | |
| C26 | | | CK73FB1H223K | CHIP C 0.022UF K | KP | |
| C26 | | | CK73FB1H223K | CHIP C 0.022UF K | MCXYIV | |
| C27 | | | CE04HW1E4R7M | NP-ELEC 4.7UF 25WV | | |
| C28, 29 | | | CE04LW1H2R2M | ELECTRO 2.2UF 50WV | | |
| C30, 31 | | | CK73FB1H223K | CHIP C 0.022UF K | EQXTMC | |
| C30, 31 | | | CK73FB1H223K | CHIP C 0.022UF K | YIV | |
| C30, 31 | | | CK73FB1H333K | CHIP C 0.033UF K | KP | |
| C32 | | | CE04LW1V4R7M | ELECTRO 4.7UF 35WV | | |
| C33, 34 | | | CK73FB1H103K | CHIP C 0.010UF K | MCIYV | |
| C35 | | | CK73FB1H332K | CHIP C 3300PF K | KP | |
| C35 | | | CK73FB1H332K | CHIP C 3300PF K | MCXYIV | |

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|---|---|---|---|---|---|---|---|---|
| C36 | | | CK73FB1H103K | CHIP C | 0.010UF | K | | |
| C37, 38 | | | CE04LW1C100M | ELECTRO | 10UF | 16WV | | |
| 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 | EQTMCX | |
| C42 | | | CC73FCH1H120J | CHIP C | 12PF | J | YI | |
| C42 | | | CC73FCH1H270J | CHIP C | 27PF | J | KPV | |
| C43 | | | CC73FCH1H100D | CHIP C | 10PF | D | EQTMCX | |
| C43 | | | CC73FCH1H100D | CHIP C | 10PF | D | YI | |
| C43 | | | CC73FCH1H220J | CHIP C | 22PF | J | KPV | |
| 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 | EQT | |
| C72 | | | CE04LW1H010M | ELECTRO | 1.0UF | 50WV | | |
| C73 | | | CE04LW1C470M | ELECTRO | 47UF | 16WV | | |
| C74 | | | CK73FB1H102K | CHIP C | 1000PF | K | KP | |
| 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 | EQT | |
| C81 | | | CK73FF1C105Z | CHIP C | 1.0UF | Z | | |
| C82 | | | CK73FB1H103K | CHIP C | 0.010UF | K | EQT | |
| C83 | | | CC73FSL1H101J | CHIP C | 100PF | J | | |
| C84, 85 | | | CK73FB1H223K | CHIP C | 0.022UF | K | | |
| C86 | | | CK73FB1H471K | CHIP C | 470PF | K | | |
| C88 | | | CK73FB1H332K | CHIP C | 3300PF | K | | |
| C89, 90 | | | CK73FB1H472K | CHIP C | 4700PF | K | KP | |
| C89, 90 | | | CK73FB1H472K | CHIP C | 4700PF | K | MCXYIV | |
| C91 | | | CK73FF1C105Z | CHIP C | 1.0UF | Z | | |
| CN1 | | | E40-9831-05 | SOCKET FOR PIN ASSY | | | | |
| CN2 | | | E40-4871-05 | PIN ASSY | | | EQT | |
| J1 | | | E20-0321-05 | LOCK TERMINAL BOARD(2P,F) | | | EQTMCX | |
| J1 | | | E20-0321-05 | LOCK TERMINAL BOARD(2P,F) | | | YI | |
| J1 | | | E70-0052-05 | LOCK TERMINAL BOARD | | | EQTMCX | |
| J1 | | | E70-0052-05 | LOCK TERMINAL BOARD | | | YI | |
| J1 | | | E70-0080-05 | LOCK TERMINAL BOARD | | | KPV | |
| CF1, 2 | | | L72-0531-05 | CERAMIC FILTER | | | MCXYIV | |
| CF1, 2 | | | L72-0536-05 | CERAMIC FILTER | | | EQT | |
| CF1, 2 | | | L72-0596-05 | CERAMIC FILTER | | | KP | |
| CF3 | | | L72-0607-05 | CERAMIC FILTER | | | KP | |
| CF3 | | | L72-0607-05 | CERAMIC FILTER | | | MCXYIV | |
| 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 | | | EQT | |
| L5 | | | L30-0951-05 | FM IFT | | | EQT | |

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⑩

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|---|---|---|---|---|---|---|---|---|---|
| L6, 7 | | | L79-1239-05 | LC FILTER | | | | EQT | |
| L9 | | | L40-1001-17 | SMALL FIXED INDUCTOR(10UH,K) | | | | EQXTMC | |
| L9 | | | L40-1001-17 | SMALL FIXED INDUCTOR(10UH,K) | | | | YI | |
| L9 | | | L40-1001-82 | SMALL FIXED INDUCTOR(10UH) | | | | KPV | |
| X1 | | | L77-2187-05 | CRYSTAL RESONATOR | | | | KPV | |
| X1 | | | L77-2232-05 | CRYSTAL RESONATOR | | | | EQTMXC | |
| X1 | | | L77-2232-05 | CRYSTAL RESONATOR | | | | YI | |
| R1 | | | RK73FB2A101J | CHIP R | 100 | J | 1/10W | | |
| R4 | | | RK73FB2A681J | CHIP R | 680 | J | 1/10W | | |
| 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 | EQT | |
| R8 | | | RK73FB2A330J | CHIP R | 33 | J | 1/10W | KP | |
| R8 | | | RK73FB2A330J | CHIP R | 33 | J | 1/10W | MCXYIV | |
| 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 | EQT | |
| R11 | | | RK73FB2A330J | CHIP R | 33 | J | 1/10W | KP | |
| R11 | | | RK73FB2A330J | CHIP R | 33 | J | 1/10W | MCXYIV | |
| R12 | | | RK73FB2A101J | CHIP R | 100 | J | 1/10W | | |
| R14 | | | RK73FB2A101J | CHIP R | 100 | J | 1/10W | EQT | |
| R14 | | | RK73FB2A271J | CHIP R | 270 | J | 1/10W | KP | |
| R14 | | | RK73FB2A271J | CHIP R | 270 | J | 1/10W | MCXYIV | |
| R15 | | | RK73FB2A333J | CHIP R | 33K | J | 1/10W | EQT | |
| 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 | EQT | |
| R23 | | | RK73FB2A332J | CHIP R | 3.3K | J | 1/10W | KP | |
| R23 | | | RK73FB2A332J | CHIP R | 3.3K | J | 1/10W | MCXYIV | |
| R25 | | | RK73FB2A183J | CHIP R | 18K | J | 1/10W | KP | |
| R25 | | | RK73FB2A183J | CHIP R | 18K | J | 1/10W | MCXYIV | |
| R25 | | | RK73FB2A273J | CHIP R | 27K | J | 1/10W | EQT | |
| R27, 28 | | | RK73FB2A432J | CHIP R | 4.3K | J | 1/10W | EQT | |
| R27, 28 | | | RK73FB2A752J | CHIP R | 7.5K | J | 1/10W | KP | |
| R27, 28 | | | RK73FB2A752J | CHIP R | 7.5K | J | 1/10W | MCXYIV | |
| R30 | | | RK73FB2A561J | CHIP R | 560 | J | 1/10W | MCIYV | |
| R31 | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | MCIYV | |
| R32 | | | RK73FB2A272J | CHIP R | 2.7K | J | 1/10W | KP | |
| R32 | | | RK73FB2A272J | CHIP R | 2.7K | J | 1/10W | MCXYIV | |
| R33, 34 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R35 | | | RK73FB2A101J | CHIP R | 100 | J | 1/10W | EQT | |
| R36 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | EQT | |
| R37 | | | RK73FB2A392J | CHIP R | 3.9K | J | 1/10W | EQT | |
| R38 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | EQT | |
| R39 | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | EQT | |
| 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 | | |

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⑪

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|---|---|---|---|---|---|---|---|---|
| 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 | | | RK73FB2A153J | CHIP R 15K | J | 1/10W | KP | |
| R72, 73 | | | RK73FB2A392J | CHIP R 3.9K | J | 1/10W | EQT | |
| R72, 73 | | | RK73FB2A822J | CHIP R 8.2K | J | 1/10W | MCXYIV | |
| 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 | | |
| R79 | | | RK73FB2A332J | CHIP R 3.3K | J | 1/10W | | |
| R80 | | | RK73FB2A223J | CHIP R 22K | J | 1/10W | EQT | |
| ⚠ R81 | | | RS14KB3A151J | FL-PROOF RS 150 | J | 1W | | |
| R82 | | | RK73FB2A272J | CHIP R 2.7K | J | 1/10W | EQT | |
| 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 | | |
| R89 | | | RK73FB2A333J | CHIP R 33K | J | 1/10W | | |
| VR1 | | | R32-0037-05 | SEMI FIXED VARIABLE RESISTOR | | | | |
| W51, 52 | | | R92-0670-05 | CHIP R 0 OHM | | | | |
| W53 | | | R92-0670-05 | CHIP R 0 OHM | | | EQTMXC | |
| W53 | | | R92-0670-05 | CHIP R 0 OHM | | | YI | |
| W54, 55 | | | R92-0670-05 | CHIP R 0 OHM | | | | |
| W56 | | | R92-0670-05 | CHIP R 0 OHM | | | MCIYV | |
| W59 | | | R92-0670-05 | CHIP R 0 OHM | | | | |
| W60 | | | R92-0670-05 | CHIP R 0 OHM | | | EQT | |
| W62 | | | R92-0670-05 | CHIP R 0 OHM | | | | |
| W80 | | | R92-0679-05 | CHIP R 0 OHM | | | | |
| W82, 83 | | | R92-0679-05 | CHIP R 0 OHM | | | KP | |
| W82, 83 | | | R92-0679-05 | CHIP R 0 OHM | | | MCXYIV | |
| W84, 85 | | | R92-0679-05 | CHIP R 0 OHM | | | | |
| D1 | | | DA204U | DIODE | | | | |
| D1 | | | MA143A | DIODE | | | | |
| D1 | | | 1SS302 | DIODE | | | | |
| D3 | | | HZS8.2N(B2) | ZENER DIODE | | | | |
| D3 | | | MTZJ8.2(B) | ZENER DIODE | | | | |
| D3 | | | RD8.2ES(B2) | ZENER DIODE | | | | |
| D4 | | | HZS5.1N(B2) | ZENER DIODE | | | | |
| D4 | | | MTZJ5.1(B) | ZENER DIODE | | | | |
| D4 | | | RD5.1ES(B2) | ZENER DIODE | | | | |
| D5 | | | HZS2.7N(B2) | ZENER DIODE | | | | |
| D5 | | | MTZJ2.7(B) | ZENER DIODE | | | | |
| D5 | | | RD2.7ES(B2) | ZENER DIODE | | | | |
| D8 | | | MA111 | DIODE | | | | |

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⑫

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|---|---|---|---|---|---|---|---|---|
| D9 | | | HZS3.3N(B2) | ZENER DIODE | | | | |
| D9 | | | MTZJ3.3(B) | ZENER DIODE | | | | |
| D9 | | | RD3.3ES(B2) | ZENER DIODE | | | | |
| D11 | | | MA111 | DIODE | | | EQT | |
| D13 | | | MA111 | DIODE | | | | |
| IC1 | | | LA1837 | ANALOGUE IC | | | EQT | |
| IC1 | | | LA1838 | ANALOGUE IC | | | KP | |
| IC1 | | | LA1838 | ANALOGUE IC | | | MCXYIV | |
| IC2 | | | LC72131 | MOS-IC | | | | |
| Q1 | | | 2SC4081(R,S) | TRANSISTOR | | | | |
| Q1 | | | 2SD1819A(Q,R) | TRANSISTOR | | | | |
| Q2 | | | 2SA1576A(R,S) | TRANSISTOR | | | | |
| Q2 | | | 2SB1218A(Q,R) | TRANSISTOR | | | | |
| Q3, 4 | | | 2SC4081(R,S) | TRANSISTOR | | | MCIYV | |
| Q3, 4 | | | 2SD1819A(Q,R) | TRANSISTOR | | | MCIYV | |
| Q6, 7 | | | 2SC4081(R,S) | TRANSISTOR | | | EQT | |
| Q6, 7 | | | 2SD1819A(Q,R) | TRANSISTOR | | | EQT | |
| 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 | | | ET | |
| A1 | | | W02-2586-05 | FM FRONT-END ASSY | | | Q | |
| A1 | | | W02-2622-05 | FM FRONT-END ASSY | | | KP | |
| A1 | | | W02-2622-05 | FM FRONT-END ASSY | | | MCXYIV | |
| **POWER (X09-6242-70/X09-6262-70/X09-6352-10/X09-6300-10)** | | | | | | | | |
| D527 | | | B30-2545-05 | LED(RED3(160)) | | | | |
| C1, 2 | | | CC73FSL1H220J | CHIP C | 22PF | J | | |
| C3, 4 | | | CE04KW1C100M | ELECTRO | 10UF | 16WV | | |
| C5, 6 | | | CC73FSL1H820J | CHIP C | 82PF | J | | |
| C7, 8 | | | CE04KW1A470M | ELECTRO | 47UF | 10WV | | |
| C11, 12 | | | CQ93FMG1H123J | MYLAR | 0.012UF | J | | |
| C13, 14 | | | CQ93FMG1H332J | MYLAR | 3300PF | J | | |
| C15, 16 | | | CE04KW1V4R7M | ELECTRO | 4.7UF | 35WV | | |
| C17 | | | CC45FSL1H101J | CERAMIC | 100PF | J | | |
| C18 | | | CK45FF1H103Z | CERAMIC | 0.010UF | Z | | |
| C19~36 | | | CC73FSL1H221J | CHIP C | 220PF | J | | |
| C37~41 | | | CC73FCH1H470J | CHIP C | 47PF | J | | |
| C42, 43 | | | CK73FB1H103K | CHIP C | 0.010UF | K | | |
| C44 | | | CC73FSL1H471J | CHIP C | 470PF | J | | |
| C45, 46 | | | CE04KW1H2R2M | ELECTRO | 2.2UF | 50WV | | |
| C47, 48 | | | CC73FSL1H680J | CHIP C | 68PF | J | | |
| C51 | | | CK45FB1H391K | CERAMIC | 390PF | K | | |
| C52 | | | CK45FF1H103Z | CERAMIC | 0.010UF | Z | | |
| C53, 54 | | | CC73FSL1H101J | CHIP C | 100PF | J | | |
| C55, 56 | | | CE04KW1C220M | ELECTRO | 22UF | 16WV | | |
| C61~63 | | | CE04KW1C100M | ELECTRO | 10UF | 16WV | | |
| C93, 94 | | | CK45FF1H103Z | CERAMIC | 0.010UF | Z | | |
| C95 | | | CC73FSL1H471J | CHIP C | 470PF | J | | |
| C98, 99 | | | CE04KW1A101M | ELECTRO | 100UF | 10WV | | |
| C100, 101 | | | CE04KW1C100M | ELECTRO | 10UF | 16WV | | |
| C104, 105 | | | CK73FB1H153K | CHIP C | 0.015UF | K | | |

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|---|---|---|---|---|---|---|---|---|
| C106, 107 | | | CE04KW1HR33M | ELECTRO | 0.33UF | 50WV | | |
| C108, 109 | | | CQ93FMG1H822J | MYLAR | 8200PF | J | | |
| C110 | | | CC73FSL1H471J | CHIP C | 470PF | J | | |
| C111~118 | | | CE04KW1V4R7M | ELECTRO | 4.7UF | 35WV | | |
| C119, 120 | | | CE04KW1H3R3M | ELECTRO | 3.3UF | 50WV | | |
| C121 | | | CC73FSL1H221J | CHIP C | 220PF | J | | |
| C122 | | | CE04KW1H010M | ELECTRO | 1.0UF | 50WV | | |
| C123~126 | | | CC73FSL1H101J | CHIP C | 100PF | J | | |
| C127, 128 | | | CE04KW1C100M | ELECTRO | 10UF | 16WV | | |
| C129 | | | CE04KW1C101M | ELECTRO | 100UF | 16WV | | |
| C130 | | | CE04KW1C470M | ELECTRO | 47UF | 16WV | | |
| C131~134 | | | CE04KW1C100M | ELECTRO | 10UF | 16WV | | |
| C135 | | | CK73FB1C104K | CHIP C | 0.10UF | K | | |
| C136 | | | CK73FB1H562K | CHIP C | 5600PF | K | | |
| C137 | | | CE04KW1C100M | ELECTRO | 10UF | 16WV | | |
| C138 | | | CE04KW1E221M | ELECTRO | 220UF | 25WV | | |
| C139 | | | CE04KW1C220M | ELECTRO | 22UF | 16WV | | |
| C140, 141 | | | CK73FF1E104Z | CHIP C | 0.10UF | Z | | |
| C142 | | | CK73FB1H681K | CHIP C | 680PF | K | | |
| C143, 144 | | | CK73FF1E104Z | CHIP C | 0.10UF | Z | | |
| C145 | | | CK73FB1H681K | CHIP C | 680PF | K | | |
| C146 | | | CQ93FMG1H104J | MYLAR | 0.10UF | J | | |
| C147, 148 | | | CQ93FMG1H223J | MYLAR | 0.022UF | J | | |
| C149, 150 | | | CK73FB1C104K | CHIP C | 0.10UF | K | | |
| C151, 152 | | | CQ93FMG1H473J | MYLAR | 0.047UF | J | | |
| C153 | | | CK73FB1C104K | CHIP C | 0.10UF | K | | |
| C154 | | | CK73FF1C224Z | CHIP C | 0.22UF | Z | | |
| C155 | | | CQ93FMG1H224J | MYLAR | 0.22UF | J | | |
| C156, 157 | | | CE04KW1V4R7M | ELECTRO | 4.7UF | 35WV | | |
| C158 | | | CQ93FMG1H224J | MYLAR | 0.22UF | J | | |
| C159 | | | CK73FF1C224Z | CHIP C | 0.22UF | Z | | |
| C160 | | | CK73FF1C105Z | CHIP C | 1.0UF | Z | | |
| C161 | | | CK73EB1E473K | CHIP C | 0.047UF | K | | |
| C162 | | | CK73FB1H562K | CHIP C | 5600PF | K | | |
| C163 | | | CK73FB1H221K | CHIP C | 220PF | K | | |
| C164 | | | CK73FB1H103K | CHIP C | 0.010UF | K | | |
| C165 | | | CK73FB1C104K | CHIP C | 0.10UF | K | | |
| C169 | | | CK73FB1H182K | CHIP C | 1800PF | K | | |
| C170 | | | CK73FB1H103K | CHIP C | 0.010UF | K | | |
| C171 | | | CQ93FMG1H683J | MYLAR | 0.068UF | J | | |
| C172, 173 | | | CQ93FMG1H104J | MYLAR | 0.10UF | J | | |
| C174 | | | CQ93FMG1H683J | MYLAR | 0.068UF | J | | |
| C175 | | | CQ93FMG1H182J | MYLAR | 1800PF | J | | |
| C176 | | | CK73FB1H103K | CHIP C | 0.010UF | K | | |
| C177 | | | CE04KW1H010M | ELECTRO | 1.0UF | 50WV | | |
| C178 | | | CE04KW1C220M | ELECTRO | 22UF | 16WV | | |
| C181, 182 | | | CE04KW1V4R7M | ELECTRO | 4.7UF | 35WV | | |
| C183, 184 | | | CC73FSL1H471J | CHIP C | 470PF | J | | |
| C193, 194 | | | CE04KW1V4R7M | ELECTRO | 4.7UF | 35WV | | |
| C195, 196 | | | CC73FSL1H471J | CHIP C | 470PF | J | | |
| C197 | | | CE04KW1V4R7M | ELECTRO | 4.7UF | 35WV | | |
| C203 | | | CC45FSL1H101J | CERAMIC | 100PF | J | | |
| C204 | | | CK45FF1H103Z | CERAMIC | 0.010UF | Z | | |
| C205 | | | CE04KW1V4R7M | ELECTRO | 4.7UF | 35WV | | |
| C206 | | | CK45FB2H392K | CERAMIC | 3900PF | K | | |

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|---|---|---|---|---|---|---|---|---|
| C207, 208 | | | CC73FSL1H471J | CHIP C | 470PF | J | | |
| C212 | | | CC73FSL1H101J | CHIP C | 100PF | J | | |
| C214 | | | CE04KW1H010M | ELECTRO | 1.0UF | 50WV | | |
| C215 | | | CE04HW1E220M | NP-ELEC | 22UF | 25WV | | |
| C216, 217 | | | CK73FB1H221K | CHIP C | 220PF | K | | |
| C218, 219 | | | CE04KW1C100M | ELECTRO | 10UF | 16WV | | |
| C220, 221 | | | CE04KW1A101M | ELECTRO | 100UF | 10WV | | |
| C222, 223 | | | CC73FCH1H100D | CHIP C | 10PF | D | EQT | |
| C222, 223 | | | CC73FCH1H150J | CHIP C | 15PF | J | KP | |
| C222, 223 | | | CC73FCH1H150J | CHIP C | 15PF | J | MCXYIV | |
| C224, 225 | | | CE04KW2A100M | ELECTRO | 10UF | 100WV | | |
| C226 | | | CK45FB2H392K | CERAMIC | 3900PF | K | | |
| C227 | | | CE04KW2A100M | ELECTRO | 10UF | 100WV | | |
| C228, 229 | | | CE04KW1H470M | ELECTRO | 47UF | 50WV | | |
| C230, 231 | | | CK45FB2H392K | CERAMIC | 3900PF | K | | |
| C232 | | | CE04KW2A100M | ELECTRO | 10UF | 100WV | | |
| C233~235 | | | CK73FB1H221K | CHIP C | 220PF | K | | |
| C236~238 | | | CE04KW1C100M | ELECTRO | 10UF | 16WV | | |
| C239~241 | | | CE04KW1A101M | ELECTRO | 100UF | 10WV | | |
| C242~244 | | | CC73FCH1H100D | CHIP C | 10PF | D | EQT | |
| C242~244 | | | CC73FCH1H150J | CHIP C | 15PF | J | KP | |
| C242~244 | | | CC73FCH1H150J | CHIP C | 15PF | J | MCXYIV | |
| C247, 248 | | | CE04KW2A100M | ELECTRO | 10UF | 100WV | | |
| C249, 250 | | | CE04KW1H470M | ELECTRO | 47UF | 50WV | | |
| C253~257 | | | CK73FB1H102K | CHIP C | 1000PF | K | | |
| C268 | | | CE04KW1V4R7M | ELECTRO | 4.7UF | 35WV | | |
| C269 | | | CE04KW0J221M | ELECTRO | 220UF | 6.3WV | | |
| C270 | | | CK73FB1H472K | CHIP C | 4700PF | K | 5 | |
| C270~272 | | | CK73FB1H472K | CHIP C | 4700PF | K | KP | |
| C271 | | | CK73FB1H472K | CHIP C | 4700PF | K | Q5Y5M5 | |
| C271 | | | CK73FB1H472K | CHIP C | 4700PF | K | X5I5 | |
| C272 | | | CK73FB1H472K | CHIP C | 4700PF | K | 5 | |
| C273, 274 | | | CK73FB1H472K | CHIP C | 4700PF | K | 67 | |
| C275, 276 | | | CK73FB1H472K | CHIP C | 4700PF | K | | |
| C277~279 | | | CK45FB1H102K | CERAMIC | 1000PF | K | EQT | |
| C280 | | | CK45FB1H102K | CERAMIC | 1000PF | K | | |
| C281 | | | CK45FF1H472Z | CERAMIC | 4700PF | Z | E1E2E3 | |
| C281 | | | CK45FF1H472Z | CERAMIC | 4700PF | Z | T5 | |
| C282, 283 | | | CC73FSL1H101J | CHIP C | 100PF | J | | |
| C284, 285 | | | CC73FSL1H561J | CHIP C | 560PF | J | | |
| C300 | | | CQ93FMG1H184J | MYLAR | 0.18UF | J | | |
| C302 | | | C91-1480-05 | MP | 0.22UF | 250WV | EQTMCX | |
| C302 | | | C91-1480-05 | MP | 0.22UF | 250WV | YIV | |
| C304, 305 | | | C90-3832-05 | ELECTRO | 4700UF | 75WV | KP | |
| C304, 305 | | | C90-3832-05 | ELECTRO | 4700UF | 75WV | MCXYIV | |
| C304, 305 | | ✻ | C90-3833-05 | ELECTRO | 4700UF | 63WV | EQT | |
| C306, 307 | | | C90-3834-05 | ELECTRO | 3300UF | 42WV | KP | |
| C306, 307 | | | C90-3834-05 | ELECTRO | 3300UF | 42WV | MCXYIV | |
| C306, 307 | | ✻ | C90-3835-05 | ELECTRO | 3300UF | 35WV | EQT | |
| C308 | | | CE04KW1V222M | ELECTRO | 2200UF | 35WV | | |
| C309 | | | CE04KW1V471M | ELECTRO | 470UF | 35WV | | |
| C310~313 | | | CK73FF1C224Z | CHIP C | 0.22UF | Z | | |
| C314, 315 | | | CE04KW1E101M | ELECTRO | 100UF | 25WV | | |
| C316 | | | CE04KW2A220M | ELECTRO | 22UF | 100WV | | |
| C317 | | | CE04KW1H470M | ELECTRO | 47UF | 50WV | | |

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|---|---|---|---|---|---|---|---|---|
| C320 | | | CE04KW1H010M | ELECTRO | 1.0UF | 50WV | | |
| C326 | | | CE04KW1C470M | ELECTRO | 47UF | 16WV | | |
| C327 | | | CE04KW1H010M | ELECTRO | 1.0UF | 50WV | | |
| C330 | | | CE04KW1C100M | ELECTRO | 10UF | 16WV | | |
| C350 | | | CE04KW1A101M | ELECTRO | 100UF | 10WV | | |
| C351, 352 | | | CE04KW1H100M | ELECTRO | 10UF | 50WV | | |
| C359~363 | | | CE04KW1H010M | ELECTRO | 1.0UF | 50WV | | |
| C400 | | | CE04KW1C330M | ELECTRO | 33UF | 16WV | | |
| C401~410 | | | CK73EB1H104K | CHIP C | 0.10UF | K | | |
| C411, 412 | | | CE04KW1C220M | ELECTRO | 22UF | 16WV | | |
| C413 | | | CK73EB1H104K | CHIP C | 0.10UF | K | | |
| C414 | | | CK73FB1C104K | CHIP C | 0.10UF | K | | |
| C501~503 | | | 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 | EQT | |
| C511 | | | CK73FB1H103K | CHIP C | 0.010UF | K | | |
| C512, 513 | | | CK45FF1H103Z | CERAMIC | 0.010UF | Z | | |
| C514 | | | CK73FB1H103K | CHIP C | 0.010UF | K | | |
| C515 | | | CK45FB1H561K | CERAMIC | 560PF | K | EQT | |
| C516 | | | CE04KW1H2R2M | ELECTRO | 2.2UF | 50WV | EQT | |
| C517 | | | CE04KW1H010M | ELECTRO | 1.0UF | 50WV | | |
| C518 | | | CK73FB1H103K | CHIP C | 0.010UF | K | | |
| C519~521 | | | CK45FF1H103Z | CERAMIC | 0.010UF | Z | | |
| C522 | | | CK45FF1H103Z | CERAMIC | 0.010UF | Z | EQT | |
| C523 | | | CE04KW1A101M | ELECTRO | 100UF | 10WV | EQT | |
| C524 | | | CK45FF1H103Z | CERAMIC | 0.010UF | Z | EQT | |
| C525 | | | CE04KW1H010M | ELECTRO | 1.0UF | 50WV | | |
| C526 | | | C90-3214-05 | ELECTRO | 100UF | 6.3WV | | |
| C527 | | | CC73FCH1H470J | CHIP C | 47PF | J | EQT | |
| C528 | | | CC73FCH1H180J | CHIP C | 18PF | J | EQT | |
| C529, 530 | | | CE04KW1V4R7M | ELECTRO | 4.7UF | 35WV | | |
| C531 | | | CK73FB1H103K | CHIP C | 0.010UF | K | | |
| C532 | | | CK73FB1H102K | CHIP C | 1000PF | K | | |
| C533 | | | CK73EB1H102K | CHIP C | 1000PF | K | EQT | |
| C533 | | | CK73EB1H102K | CHIP C | 1000PF | K | KPV | |
| C534 | | | C90-1827-05 | ELECTRO | 0.047F | 5.5WV | | |
| C535 | | | CE04KW0J471M | ELECTRO | 470UF | 6.3WV | KP | |
| C536 | | | CK45FB1H102K | CERAMIC | 1000PF | K | | |
| C537 | | | CC45FSL1H101J | CERAMIC | 100PF | J | | |
| C538 | | | CC73FSL1H101J | CHIP C | 100PF | J | | |
| C540 | | | CC45FSL1H101J | CERAMIC | 100PF | J | KP | |
| CN1 | | | E40-4299-05 | PIN ASSY | | | | |
| CN2 | | | E40-4248-05 | PIN ASSY | | | | |
| CN7 | | | E40-8196-05 | PIN ASSY | | | | |
| CN8 | | | E40-8260-05 | FLAT CABLE CONNECTOR | | | | |
| CN9 | | | E40-8251-05 | FLAT CABLE CONNECTOR | | | | |
| CN10 | | | E40-9848-05 | PIN ASSY | | | | |
| CN11 | | | E40-3247-05 | PIN ASSY | | | 7 | |
| CN12 | | | E40-3249-05 | PIN ASSY | | | 7 | |
| CN51 | | | E40-8259-05 | FLAT CABLE CONNECTOR | | | | |
| CN53 | | | E40-8250-05 | FLAT CABLE CONNECTOR | | | | |

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|---|---|---|---|---|---|---|---|---|---|
| J1 | | | E63-0046-15 | PHONO JACK | | | | EQTMCX | |
| J1 | | | E63-0046-15 | PHONO JACK | | | | YI | |
| J1 | | | E63-0172-05 | PHONO JACK | | | | KPV | |
| J2 | | | E63-0047-15 | PHONO JACK | | | | EQTMCX | |
| J2 | | | E63-0047-15 | PHONO JACK | | | | YI | |
| J2 | | | E63-0173-05 | PHONO JACK | | | | KPV | |
| J3, 4 | | | E63-1014-05 | PHONO JACK | | | | EQTMCX | |
| J3, 4 | | | E63-1014-05 | PHONO JACK | | | | YI | |
| J3, 4 | | | E63-1017-05 | PHONO JACK | | | | KPV | |
| J5 | | | E63-1018-05 | PHONO JACK | | | | KPV | |
| J5 | | | E63-1050-05 | PHONO JACK | | | | EQTMCX | |
| J5 | | | E63-1050-05 | PHONO JACK | | | | YI | |
| J6 | | | E63-1019-05 | PHONO JACK | | | | KPV | |
| J6 | | | E63-1051-05 | PHONO JACK | | | | EQTMCX | |
| J6 | | | E63-1051-05 | PHONO JACK | | | | YI | |
| J7 | | | E63-0046-15 | PHONO JACK | | | | EQTMCX | |
| J7 | | | E63-0046-15 | PHONO JACK | | | | YI | |
| J7 | | | E63-0172-05 | PHONO JACK | | | | KPV | |
| J8 | | | E70-0046-05 | LOCK TERMINAL BOARD | | | | 5 | |
| J8 | | | E70-0082-05 | LOCK TERMINAL BOARD | | | | KP | |
| J9 | | | E63-0114-05 | PHONO JACK | | | | EQT | |
| J10 | | | E70-0047-05 | LOCK TERMINAL BOARD | | | | 67 | |
| J10 | | | E70-0057-05 | LOCK TERMINAL BOARD | | | | 5 | |
| J10 | | | E70-0094-05 | LOCK TERMINAL BOARD | | | | KP | |
| J11 | | | E63-0116-05 | PHONO JACK | | | | MCXYI | |
| J11 | | | E63-1016-05 | PHONO JACK | | | | KPV | |
| W401~405 | | | E29-1634-14 | LEAD PLATE | | | | | |
| L1~5 | | | L39-1373-05 | PHASE COMPENSATION COIL | | | | | |
| L501 | | | L40-1091-17 | SMALL FIXED INDUCTOR(1UH) | | | | EQT | |
| L502 | | | L40-1001-17 | SMALL FIXED INDUCTOR(10UH,K) | | | | EQT | |
| X1 | | | L78-0244-05 | RESONATOR | (4MHZ) | | | | |
| X501 | | | L78-0290-05 | RESONATOR | (8MHZ) | | | | |
| X502 | | | L77-2002-05 | CRYSTAL RESONATOR(4.332MHZ) | | | | EQT | |
| R1, 2 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R3, 4 | | | RK73FB2A273J | CHIP R | 27K | J | 1/10W | | |
| R5, 6 | | | RK73FB2A101J | CHIP R | 100 | J | 1/10W | | |
| R13, 14 | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| R17, 18 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R19, 20 | | | RK73FB2A224J | CHIP R | 220K | J | 1/10W | | |
| R21~24 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R25, 26 | | | RK73FB2A224J | CHIP R | 220K | J | 1/10W | | |
| R27, 28 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R29, 30 | | | RK73FB2A224J | CHIP R | 220K | J | 1/10W | | |
| R31, 32 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R33, 34 | | | RK73FB2A224J | CHIP R | 220K | J | 1/10W | | |
| R35, 36 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R37, 38 | | | RK73FB2A224J | CHIP R | 220K | J | 1/10W | | |
| R39, 40 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R41, 42 | | | RK73FB2A224J | CHIP R | 220K | J | 1/10W | | |
| R43 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R44 | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R45 | | | RK73FB2A224J | CHIP R | 220K | J | 1/10W | | |
| R46 | | | RK73FB2A392J | CHIP R | 3.9K | J | 1/10W | | |

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|---|---|---|---|---|---|---|---|---|---|
| R47, 48 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R49, 50 | | | RK73FB2A224J | CHIP R | 220K | J | 1/10W | | |
| R51~53 | | | RK73FB2A750J | CHIP R | 75 | J | 1/10W | | |
| R56, 57 | | | RK73FB2A332J | CHIP R | 3.3K | J | 1/10W | | |
| R59, 60 | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | | |
| R67, 68 | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | | |
| R69, 70 | | | RK73FB2A4R7J | CHIP R | 4.7 | J | 1/10W | | |
| R71, 72 | | | RK73FB2A224J | CHIP R | 220K | J | 1/10W | | |
| R93, 94 | | | RS14KB3A391J | FL-PROOF RS | 390 | J | 1W | | |
| R96 | | | RK73FB2A432J | CHIP R | 4.3K | J | 1/10W | | |
| R97 | | | RK73EB2B224J | CHIP R | 220K | J | 1/8W | | |
| R98~102 | | | RK73FB2A224J | CHIP R | 220K | J | 1/10W | | |
| R109 | | | RS14KB3A221J | FL-PROOF RS | 220 | J | 1W | | |
| R110 | | | RS14KB3A271J | FL-PROOF RS | 270 | J | 1W | | |
| R111~113 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R116, 117 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R118 | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| R119 | | | RK73FB2A223J | CHIP R | 22K | J | 1/10W | | |
| R122 | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R123 | | | RK73FB2A203J | CHIP R | 20K | J | 1/10W | | |
| R124 | | | RK73FB2A105J | CHIP R | 1.0M | J | 1/10W | | |
| R125 | | | RK73FB2A224J | CHIP R | 220K | J | 1/10W | | |
| R126 | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | | |
| R127 | | | RK73FB2A475J | CHIP R | 4.7M | J | 1/10W | | |
| R128 | | | RK73FB2A752J | CHIP R | 7.5K | J | 1/10W | | |
| R129 | | | RK73FB2A153J | CHIP R | 15K | J | 1/10W | | |
| R130 | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| R131 | | | RK73FB2A752J | CHIP R | 7.5K | J | 1/10W | | |
| R132 | | | RK73FB2A153J | CHIP R | 15K | J | 1/10W | | |
| R133 | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| R134 | | | RD14NB2E221J | RD | 220 | J | 1/4W | | |
| R135 | | | RS14KB3D680J | FL-PROOF RS | 68 | J | 2W | | |
| R136 | | | RK73FB2A334J | CHIP R | 330K | J | 1/10W | | |
| R137, 138 | | | RK73FB2A243J | CHIP R | 24K | J | 1/10W | | |
| R145, 146 | | | RK73FB2A122J | CHIP R | 1.2K | J | 1/10W | | |
| R147, 148 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R149, 150 | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | | |
| R157, 158 | | | RK73FB2A222J | CHIP R | 2.2K | J | 1/10W | | |
| R161, 162 | | | RK73FB2A122J | CHIP R | 1.2K | J | 1/10W | | |
| R163, 164 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R165, 166 | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | | |
| R173, 174 | | | RK73FB2A222J | CHIP R | 2.2K | J | 1/10W | | |
| R177, 178 | | | RK73FB2A122J | CHIP R | 1.2K | J | 1/10W | | |
| R179, 180 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R181, 182 | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | | |
| R183 | | | RK73FB2A153J | CHIP R | 15K | J | 1/10W | | |
| R184 | | | RK73FB2A391J | CHIP R | 390 | J | 1/10W | | |
| R186 | | | RK73FB2A183J | CHIP R | 18K | J | 1/10W | | |
| R189, 190 | | | RK73FB2A222J | CHIP R | 2.2K | J | 1/10W | | |
| R191 | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | | |
| R192, 193 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R194 | | | RK73FB2A223J | CHIP R | 22K | J | 1/10W | | |
| R195 | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | | |
| R196, 197 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R198 | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | | |

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⑱

| Ref. No | Address | New Parts | Parts No. | Description | | | | Destination | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| R199, 200 | | | RK73FB2A223J | CHIP R | 22K | J | 1/10W | | |
| R201, 202 | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | | |
| R203, 204 | | | RK73FB2A563J | CHIP R | 56K | J | 1/10W | | |
| R207, 208 | | | RK73EB2B331J | CHIP R | 330 | J | 1/8W | K1P1 | |
| R207, 208 | | | RK73FB2A361J | CHIP R | 360 | J | 1/10W | K2P2 | |
| R207, 208 | | | RK73FB2A361J | CHIP R | 360 | J | 1/10W | K3P3 | |
| R207, 208 | | | RK73FB2A361J | CHIP R | 360 | J | 1/10W | MCXYIV | |
| R207, 208 | | | RK73FB2A431J | CHIP R | 430 | J | 1/10W | E7E8 | |
| R207, 208 | | | RK73FB2A431J | CHIP R | 430 | J | 1/10W | T7Q7 | |
| R207, 208 | | | RK73FB2A471J | CHIP R | 470 | J | 1/10W | E1E2E3 | |
| R207, 208 | | | RK73FB2A471J | CHIP R | 470 | J | 1/10W | E4E5 | |
| R207, 208 | | | RK73FB2A471J | CHIP R | 470 | J | 1/10W | Q5Q6 | |
| R209, 210 | | | RK73FB2A563J | CHIP R | 56K | J | 1/10W | | |
| R214, 215 | | | RD14NB2E103J | RD | 10K | J | 1/4W | | |
| R216 | | | RS14KB3A392J | FL-PROOF RS | 3.9K | J | 1W | | |
| R217~219 | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | | |
| R220 | | | RS14KB3A392J | FL-PROOF RS | 3.9K | J | 1W | | |
| R221, 222 | | | RK73FB2A563J | CHIP R | 56K | J | 1/10W | | |
| R224 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R225, 226 | | | RK73FB2A331J | CHIP R | 330 | J | 1/10W | K1P1 | |
| R225, 226 | | | RK73FB2A361J | CHIP R | 360 | J | 1/10W | K2P2 | |
| R225, 226 | | | RK73FB2A361J | CHIP R | 360 | J | 1/10W | K3P3 | |
| R225, 226 | | | RK73FB2A361J | CHIP R | 360 | J | 1/10W | MCXYIV | |
| R225, 226 | | | RK73FB2A431J | CHIP R | 430 | J | 1/10W | E7E8 | |
| R225, 226 | | | RK73FB2A431J | CHIP R | 430 | J | 1/10W | T7Q7 | |
| R225, 226 | | | RK73FB2A471J | CHIP R | 470 | J | 1/10W | E1E2E3 | |
| R225, 226 | | | RK73FB2A471J | CHIP R | 470 | J | 1/10W | E4E5 | |
| R225, 226 | | | RK73FB2A471J | CHIP R | 470 | J | 1/10W | Q5Q6 | |
| R229, 230 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R231 | | | RK73FB2A563J | CHIP R | 56K | J | 1/10W | | |
| R233 | | | RK73FB2A331J | CHIP R | 330 | J | 1/10W | K1P1 | |
| R233 | | | RK73FB2A361J | CHIP R | 360 | J | 1/10W | K2P2 | |
| R233 | | | RK73FB2A361J | CHIP R | 360 | J | 1/10W | K3P3 | |
| R233 | | | RK73FB2A361J | CHIP R | 360 | J | 1/10W | MCXYIV | |
| R233 | | | RK73FB2A431J | CHIP R | 430 | J | 1/10W | E7E8 | |
| R233 | | | RK73FB2A431J | CHIP R | 430 | J | 1/10W | T7Q7 | |
| R233 | | | RK73FB2A471J | CHIP R | 470 | J | 1/10W | E1E2E3 | |
| R233 | | | RK73FB2A471J | CHIP R | 470 | J | 1/10W | E4E5 | |
| R233 | | | RK73FB2A471J | CHIP R | 470 | J | 1/10W | Q5Q6 | |
| R239, 240 | | | RS14KB3A392J | FL-PROOF RS | 3.9K | J | 1W | | |
| R241, 242 | | | R92-1866-05 | METAL FILM | 0.1 | | 2W | | |
| R243, 244 | | | RK73FB2A333J | CHIP R | 33K | J | 1/10W | | |
| R245, 246 | | | RK73FB2A333J | CHIP R | 33K | J | 1/10W | K1P1 | |
| R245, 246 | | | RK73FB2A333J | CHIP R | 33K | J | 1/10W | 7 | |
| R245, 246 | | | RK73FB2A363J | CHIP R | 36K | J | 1/10W | K2P2K3 | |
| R245, 246 | | | RK73FB2A363J | CHIP R | 36K | J | 1/10W | P3 | |
| R245, 246 | | | RK73FB2A363J | CHIP R | 36K | J | 1/10W | 56 | |
| R247, 248 | | | RK73FB2A471J | CHIP R | 470 | J | 1/10W | | |
| R249 | | | R92-1866-05 | METAL FILM | 0.1 | | 2W | | |
| R251 | | | RK73FB2A333J | CHIP R | 33K | J | 1/10W | | |
| R253 | | | RK73FB2A333J | CHIP R | 33K | J | 1/10W | K1P1 | |
| R253 | | | RK73FB2A333J | CHIP R | 33K | J | 1/10W | 7 | |
| R253 | | | RK73FB2A363J | CHIP R | 36K | J | 1/10W | K2P2K3 | |
| R253 | | | RK73FB2A363J | CHIP R | 36K | J | 1/10W | P3 | |
| R253 | | | RK73FB2A363J | CHIP R | 36K | J | 1/10W | 56 | |

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⑲

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|---|---|---|---|---|---|---|---|---|---|
| R255 | | | RK73FB2A471J | CHIP R | 470 | J | 1/10W | | |
| R257, 258 | | | R92-1866-05 | METAL FILM | 0.1 | | 2W | | |
| R259, 260 | | | RK73FB2A333J | CHIP R | 33K | J | 1/10W | | |
| R261, 262 | | | RK73FB2A333J | CHIP R | 33K | J | 1/10W | K1P1 | |
| R261, 262 | | | RK73FB2A333J | CHIP R | 33K | J | 1/10W | 7 | |
| R261, 262 | | | RK73FB2A363J | CHIP R | 36K | J | 1/10W | K2P2K3 | |
| R261, 262 | | | RK73FB2A363J | CHIP R | 36K | J | 1/10W | P3 | |
| R261, 262 | | | RK73FB2A363J | CHIP R | 36K | J | 1/10W | 56 | |
| R263, 264 | | | RK73FB2A471J | CHIP R | 470 | J | 1/10W | | |
| R265~267 | | | RS14KB3D4R7J | FL-PROOF RS | 4.7 | J | 2W | | |
| R268 | | | RK73FB2A153J | CHIP R | 15K | J | 1/10W | | |
| R269, 270 | | | RS14KB3D4R7J | FL-PROOF RS | 4.7 | J | 2W | | |
| R271~273 | | | RK73FB2A333J | CHIP R | 33K | J | 1/10W | | |
| R275, 276 | | | RK73FB2A333J | CHIP R | 33K | J | 1/10W | | |
| R277 | | | RK73FB2A163J | CHIP R | 16K | J | 1/10W | EQT | |
| R277 | | | RK73FB2A183J | CHIP R | 18K | J | 1/10W | 7 | |
| R279, 280 | | | RK73FB2A163J | CHIP R | 16K | J | 1/10W | EQT | |
| R279, 280 | | | RK73FB2A183J | CHIP R | 18K | J | 1/10W | 7 | |
| R281~283 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | EQT | |
| R284 | | | RK73FB2A123J | CHIP R | 12K | J | 1/10W | | |
| R285 | | | RK73FB2A682J | CHIP R | 6.8K | J | 1/10W | | |
| R286 | | | RK73FB2A223J | CHIP R | 22K | J | 1/10W | | |
| R287~291 | | | RK73FB2A272J | CHIP R | 2.7K | J | 1/10W | | |
| R292~295 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R300 | | | RD14NB2E1R0J | RD | 1 | J | 1/4W | | |
| R304, 305 | | | RK73FB2A513J | CHIP R | 51K | J | 1/10W | | |
| R306, 307 | | | RK73FB2A273J | CHIP R | 27K | J | 1/10W | | |
| ⚠ R308 | | | RD14NB2E4R7J | RD | 4.7 | J | 1/4W | | |
| R309 | | | RD14NB2E103J | RD | 10K | J | 1/4W | | |
| R311 | | | RK73FB2A513J | CHIP R | 51K | J | 1/10W | | |
| R312 | | | RK73FB2A273J | CHIP R | 27K | J | 1/10W | | |
| R315, 316 | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | | |
| R317 | | | RK73FB2A273J | CHIP R | 27K | J | 1/10W | | |
| R318 | | | RS14KB3A681J | FL-PROOF RS | 680 | J | 1W | | |
| R320 | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R321 | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| ⚠ R322 | | | RS14KB3D391J | FL-PROOF RS | 390 | J | 2W | | |
| ⚠ R323 | | | R92-1878-05 | WIRE WOUND | 68 | K | 5W | | |
| ⚠ R325 | | | RS14KB3D391J | FL-PROOF RS | 390 | J | 2W | | |
| R326~330 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R331 | | | RK73FB2A363J | CHIP R | 36K | J | 1/10W | | |
| R332 | | | RK73FB2A751J | CHIP R | 750 | J | 1/10W | | |
| R333 | | | RK73FB2A272J | CHIP R | 2.7K | J | 1/10W | | |
| R361, 362 | | | RS14KB3D391J | FL-PROOF RS | 390 | J | 2W | | |
| R363 | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| R400 | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | | |
| R403~407 | | | RK73EB2B220J | CHIP R | 22 | J | 1/8W | | |
| R408 | | | RK73FB2A222J | CHIP R | 2.2K | J | 1/10W | | |
| R409 | | | RK73FB2A333J | CHIP R | 33K | J | 1/10W | | |
| R410, 411 | | | RK73EB2B224J | CHIP R | 220K | J | 1/8W | | |
| R412, 413 | | | RK73FB2A224J | CHIP R | 220K | J | 1/10W | | |
| R414 | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R415 | | | RK73FB2A104J | CHIP R | 100K | J | 1/10W | | |
| R416 | | | RK73FB2A683J | CHIP R | 68K | J | 1/10W | | |
| R417 | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |

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|---|---|---|---|---|---|---|---|---|---|
| R450, 451 | | | RK73FB2A272J | CHIP R | 2.7K | J | 1/10W | | |
| R452 | | | RK73FB2A361J | CHIP R | 360 | J | 1/10W | | |
| R453 | | | RK73FB2A472J | CHIP R | 4.7K | J | 1/10W | | |
| R454 | | | RK73FB2A822J | CHIP R | 8.2K | J | 1/10W | MCXYIV | |
| R456 | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| R457 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R458 | | | RK73FB2A101J | CHIP R | 100 | J | 1/10W | | |
| R460, 461 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R462 | | | RK73EB2B101J | CHIP R | 100 | J | 1/8W | | |
| R504 | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R514 | | | RK73FB2A222J | CHIP R | 2.2K | J | 1/10W | | |
| R515 | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R523 | | | RD14NB2E1R0J | RD | 1 | J | 1/4W | | |
| R524, 525 | | | RK73FB2A101J | CHIP R | 100 | J | 1/10W | | |
| R528 | | | RK73FB2A101J | CHIP R | 100 | J | 1/10W | | |
| R529, 530 | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| R536 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R545, 546 | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R552 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R556 | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | KP | |
| R556 | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | MCXYIV | |
| R565 | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R568 | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R570 | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R577 | | | RK73FB2A103J | CHIP R | 10K | J | 1/10W | | |
| R580 | | | RK73FB2A222J | CHIP R | 2.2K | J | 1/10W | EQT | |
| R582 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| R601, 602 | | | RK73FB2A224J | CHIP R | 220K | J | 1/10W | | |
| R603 | | | RK73FB2A473J | CHIP R | 47K | J | 1/10W | | |
| R606 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W | | |
| ⚠ R607, 608 | | | RD14NB2E1R0J | RD | 1 | J | 1/4W | | |
| W303 | | | R92-0679-05 | CHIP R | 0 OHM | | | | |
| W304~306 | | | R92-0670-05 | CHIP R | 0 OHM | | | | |
| W309, 310 | | | R92-0679-05 | CHIP R | 0 OHM | | | | |
| W312 | | | R92-0679-05 | CHIP R | 0 OHM | | | | |
| W314 | | | R92-0679-05 | CHIP R | 0 OHM | | | | |
| W315 | | | R92-0670-05 | CHIP R | 0 OHM | | | | |
| W316~318 | | | R92-0679-05 | CHIP R | 0 OHM | | | | |
| W501~502 | | | R92-0670-05 | CHIP R | 0 OHM | | | MCXYI | |
| W501~506 | | | R92-0670-05 | CHIP R | 0 OHM | | | KPV | |
| W503~506 | | | R92-0670-05 | CHIP R | 0 OHM | | | EQT | |
| K1 | | ✻ | S76-0045-15 | MAGNETIC RELAY | | | | | |
| K2 | | ✻ | S76-0045-15 | MAGNETIC RELAY | | | | 67 | |
| K3, 4 | | ✻ | S76-0045-15 | MAGNETIC RELAY | | | | | |
| S501~505 | | | S70-0031-05 | TACT SWITCH | | | | | |
| S507 | | | 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 | | | | | |
| D3, 4 | | | HZS5.1N(B2) | ZENER DIODE | | | | | |
| D3, 4 | | | MTZJ5.1(B) | ZENER DIODE | | | | | |

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|---|---|---|---|---|---|---|
| D3, 4 | | | RD5.1ES(B2) | ZENER DIODE | | |
| D5, 6 | | | HZS6.8N(B2) | ZENER DIODE | | |
| D5, 6 | | | MTZJ6.8(B) | ZENER DIODE | | |
| D5, 6 | | | RD6.8ES(B2) | ZENER DIODE | | |
| D7 | | | HZS5.1N(B2) | ZENER DIODE | | |
| D7 | | | MTZJ5.1(B) | ZENER DIODE | | |
| D7 | | | RD5.1ES(B2) | ZENER DIODE | | |
| D8 | | | HZS11N(B2) | ZENER DIODE | | |
| D8 | | | MTZJ11(B) | ZENER DIODE | | |
| D8 | | | RD11ES(B2) | ZENER DIODE | | |
| D10 | | | HZS8.2N(B2) | ZENER DIODE | | |
| D10 | | | MTZJ8.2(B) | ZENER DIODE | | |
| D10 | | | RD8.2ES(B2) | ZENER DIODE | | |
| D11 | | | HZS7.5N(B2) | ZENER DIODE | | |
| D11 | | | MTZJ7.5(B) | ZENER DIODE | | |
| D11 | | | RD7.5ES(B2) | ZENER DIODE | | |
| D12, 13 | | | HZS8.2N(B2) | ZENER DIODE | | |
| D12, 13 | | | MTZJ8.2(B) | ZENER DIODE | | |
| D12, 13 | | | RD8.2ES(B2) | ZENER DIODE | | |
| D14, 15 | | | HZS10N(B2) | ZENER DIODE | | |
| D14, 15 | | | MTZJ10(B) | ZENER DIODE | | |
| D14, 15 | | | RD10ES(B2) | ZENER DIODE | | |
| D19 | | | MA111 | DIODE | | |
| D20 | | | MA111 | DIODE | 67 | |
| D21~23 | | | MA111 | DIODE | | |
| D24 | | | HZS4.7N(B2) | ZENER DIODE | | |
| D24 | | | MTZJ4.7(B) | ZENER DIODE | | |
| D24 | | | RD4.7ES(B2) | ZENER DIODE | | |
| D25 | | | HZS3.3N(B2) | ZENER DIODE | | |
| D25 | | | MTZJ3.3(B) | ZENER DIODE | | |
| D25 | | | RD3.3ES(B2) | ZENER DIODE | | |
| D26 | | | MA111 | DIODE | | |
| ⚠ D31 | | | D4SBL20UF03 | DIODE | | |
| ⚠ D32 | | | D4SBL20UF03 | DIODE | ETQ | |
| ⚠ D32 | | | D4SBL20UF03 | DIODE | YMXICV | |
| D37, 38 | | | HZS16N(B2) | ZENER DIODE | | |
| D37, 38 | | | MTZJ16(B) | ZENER DIODE | | |
| D37, 38 | | | RD16ES(B2) | ZENER DIODE | | |
| D39, 40 | | | HZS18N(B2) | ZENER DIODE | | |
| D39, 40 | | | MTZJ18(B) | ZENER DIODE | | |
| D39, 40 | | | RD18ES(B2) | ZENER DIODE | | |
| D50, 51 | | | MA111 | DIODE | | |
| D52 | | | MA111 | DIODE | MCXYIV | |
| D53~55 | | | MA111 | DIODE | | |
| D56 | | | HZS7.5N(B2) | ZENER DIODE | | |
| D56 | | | MTZJ7.5(B) | ZENER DIODE | | |
| D56 | | | RD7.5ES(B2) | ZENER DIODE | | |
| D59 | | | MA111 | DIODE | YMXICV | |
| D504 | | | HSS104A | DIODE | QMCXYI | |
| D504 | | | HSS104A | DIODE | V | |
| D504 | | | 1SS133 | DIODE | QMCXYI | |
| D504 | | | 1SS133 | DIODE | V | |
| D505 | | | HSS104A | DIODE | ET | |
| D505 | | | 1SS133 | DIODE | ET | |
| D507 | | | HSS104A | DIODE | Q | |

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|---|---|---|---|---|---|---|
| D507 | | | 1SS133 | DIODE | Q | |
| D508, 509 | | | HSS104A | DIODE | | |
| D508, 509 | | | 1SS133 | DIODE | | |
| D510 | | | HSS104A | DIODE | ETQ | |
| D510 | | | HSS104A | DIODE | YMXCIV | |
| D510 | | | 1SS133 | DIODE | ETQ | |
| D510 | | | 1SS133 | DIODE | YMXCIV | |
| D511~521 | | | HSS104A | DIODE | | |
| D511~521 | | | 1SS133 | DIODE | | |
| D522 | | | 1SS133 | DIODE | 5 | |
| D523 | | | HSS104A | DIODE | | |
| D523 | | | 1SS133 | DIODE | | |
| D524 | | | HSS104A | DIODE | EQT | |
| D524 | | | 1SS133 | DIODE | EQT | |
| D526 | | | HZS6.2N(B2) | ZENER DIODE | | |
| D526 | | | MTZJ6.2(B) | ZENER DIODE | | |
| D526 | | | RD6.2ES(B2) | ZENER DIODE | | |
| D529 | | | HSS104A | DIODE | | |
| D529 | | | 1SS133 | DIODE | | |
| ⚠ D530 | | | S1ZB20(4072) | DIODE | | |
| ⚠ D531 | | | D4SBL20UF03 | DIODE | KP | |
| D532, 533 | | | MA111 | DIODE | | |
| ED51 | | | 11-MT-120GK | INDICATOR TUBE | | |
| ⚠ IC1 | | | TA7815SB | ANALOGUE IC | | |
| ⚠ IC2 | | | TA79015SB | ANALOGUE IC | | |
| ⚠ IC3 | | ✻ | STK411-220D | HYBRID IC | K2P2K2 | |
| ⚠ IC3 | | ✻ | STK411-220D | HYBRID IC | P3 | |
| ⚠ IC3 | | ✻ | STK411-220D | HYBRID IC | 56 | |
| ⚠ IC3 | | | STK411-230D | HYBRID IC | K1P1 | |
| ⚠ IC3 | | | STK411-230D | HYBRID IC | 7 | |
| ⚠ IC3 | | | STK411-230K | HYBRID IC | K1P1 | |
| ⚠ IC4 | | ✻ | STK410-020D | HYBRID IC | K2P2K3 | |
| ⚠ IC4 | | ✻ | STK410-020D | HYBRID IC | P3 | |
| ⚠ IC4 | | ✻ | STK410-020D | HYBRID IC | 56 | |
| ⚠ IC4 | | | STK410-030D | HYBRID IC | K1P1 | |
| ⚠ IC4 | | | STK410-030D | HYBRID IC | 7 | |
| IC5 | | | NJM4580ED | ANALOGUE IC | | |
| IC6 | | | TC9164AF | MOS-IC | | |
| IC7 | | | TC9162AF | MOS-IC | | |
| IC8 | | | NJM4565MD | IC(OP AMP X2) | | |
| IC9 | | | M62446FP | ANALOGUE IC | | |
| IC12 | | | NJM4565MD | IC(OP AMP X2) | | |
| IC16 | | ✻ | M62460FP | ANALOGUE IC | | |
| IC17 | | | BU4066BCF | ANALOGUE IC | | |
| IC18 | | | NJM2279M | ANALOGUE IC | | |
| IC19 | | | M5278L05M | ANALOGUE IC | | |
| IC51 | | | CXP82832-155Q | MI-COM IC | KP | |
| IC51 | | | CXP82832-155Q | MI-COM IC | MCXYIV | |
| IC51 | | | CXP82852-136Q | MI-COM IC | EQT | |
| IC52 | | | X24C02S | MEMORY IC | EQT | |
| IC52 | | | X24C02S | MEMORY IC | YMXCIV | |
| IC53 | | | S-80740AL-A4 | IC(VOLTAGE DETECTOR) | | |
| IC54 | | | SAA6579T | ANALOGUE IC | EQT | |
| IC54 | | | SAA6579T/R | ANALOGUE IC | EQT | |
| IC55 | | | NJM4565MD | IC(OP AMP X2) | | |

**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 ⚠ indicates safety critical components.

# PARTS LIST

*HOW TO READ THE PARTS LIST*

*Destination column has the abbreviation for the sale country and model. Alphabets mean the country. Numerals do model.*
*Example: X5 show KRF-V5020 for Australia market. "X" does all models for Australia.*
*"5" does KRF-V5020, KRF-5020(S), KRF-V5020E and KRF-V5020W.*

*ABBREVIATION OF MODEL AND MASS PRODUCTION'S DESTINATIONS*

| MODEL | CNT | Australia | Canada | China | England | Europe | Germany | Korea | Malaysia |
|---|---|---|---|---|---|---|---|---|---|
| | ABB. | X | P | C | T | E | G | H | I |
| KRF-V5020 | 5 | X5 | - | - | T5 | E1 | - | - | I5 |
| KRF-V5020(S) | 5 | - | - | - | - | E2 | - | - | - |
| KRF-V5020E | 5 | - | - | - | - | E3 | - | - | - |
| KRF-V5020W | 5 | - | - | - | - | - | - | - | - |
| KRF-V6020 | 6 | X6 | - | C6 | - | E4 | - | - | I6 |
| KRF-V6020E | 6 | - | - | - | - | E5 | - | - | - |
| KRF-V6020W | 6 | - | - | - | - | - | - | - | - |
| KRF-V7020 | 7 | - | - | - | T7 | E7 | - | - | - |
| KRF-V7020E | 7 | - | - | | - | E8 | - | - | - |
| KRF-V7020W | 7 | - | - | - | - | - | - | - | - |
| VR-305 | 4 | - | P2 | - | - | - | - | - | - |
| VR-306 | 4 | - | P1 | - | - | - | - | - | - |
| VR-355 | 4 | - | P3 | - | - | - | - | - | - |

| MODEL | CNT | Mexico | PX/AAFES | Russia | Scandinavia | Shanghai | USA | Other area | |
|---|---|---|---|---|---|---|---|---|---|
| | ABB. | R | Y | Q | L | V | K | M | |
| KRF-V5020 | 5 | - | Y5 | - | - | - | - | M5 | - |
| KRF-V5020(S) | 5 | - | - | - | - | - | - | - | - |
| KRF-V5020E | 5 | - | - | - | - | - | - | - | - |
| KRF-V5020W | 5 | - | - | Q5 | - | - | - | - | - |
| KRF-V6020 | 6 | - | - | - | - | V6 | - | M6 | - |
| KRF-V6020E | 6 | - | - | - | - | - | - | - | - |
| KRF-V6020W | 6 | - | - | Q6 | - | - | - | - | - |
| KRF-V7020 | 7 | - | - | - | - | - | - | - | - |
| KRF-V7020E | 7 | - | - | - | - | - | - | - | - |
| KRF-V7020W | 7 | - | - | Q7 | - | - | - | - | - |
| VR-305 | 4 | - | - | - | - | - | K2 | - | - |
| VR-306 | 4 | - | - | - | - | - | K1 | - | - |
| VR-355 | 4 | - | - | - | - | - | K3 | - | - |

✻ 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.

| Ref. No | Address | New Parts | Parts No. | Description | Destination | Remarks |
|---|---|---|---|---|---|---|
| Q1~11 | | | 2SC2878(B) | TRANSISTOR | | |
| Q12 | | | 2SC4213(B) | TRANSISTOR | | |
| Q13, 14 | | | 2SA1576A(R,S) | TRANSISTOR | | |
| Q13, 14 | | | 2SA1586(Y,GR) | TRANSISTOR | | |
| Q13, 14 | | | 2SA1611(M5,M6) | TRANSISTOR | | |
| Q13, 14 | | | 2SB1218A(Q,R) | TRANSISTOR | | |
| Q15~19 | | | 2SC1845(F,E) | TRANSISTOR | | |
| Q20 | | | DTC123JUA | DIGITAL TRANSISTOR | | |
| Q21 | | | DTC123JUA | DIGITAL TRANSISTOR | 67 | |
| Q22, 23 | | | DTC123JUA | DIGITAL TRANSISTOR | | |
| Q24, 25 | | | 2SC3722K(R,S) | TRANSISTOR | | |
| Q26 | | | 2SA1255 | TRANSISTOR | | |
| Q29 | | | 2SC3944A(R,S) | TRANSISTOR | | |
| Q30 | | | 2SA1123(S,T) | TRANSISTOR | | |
| Q30 | | | 2SA1285A(F) | TRANSISTOR | | |
| ⚠ Q31 | | | 2SB1640 | TRANSISTOR | | |
| Q32~34 | | | 2SC3722K(R,S) | TRANSISTOR | | |
| Q35 | | | 2SA1255 | TRANSISTOR | | |
| Q36, 37 | | | 2SC3722K(R,S) | TRANSISTOR | | |
| Q40 | | | 2SC4213(B) | TRANSISTOR | | |
| Q41 | | | DTC113ZUA | DIGITAL TRANSISTOR | | |
| Q41 | | | UN5219 | DIGITAL TRANSISTOR | | |
| Q42 | | | 2SC4213(B) | TRANSISTOR | MCXYIV | |
| Q501 | | | 2SC4081(R,S) | TRANSISTOR | | |
| Q501 | | | 2SC4116(Y,GR) | TRANSISTOR | | |
| Q501 | | | 2SC4177(L5,L6) | TRANSISTOR | | |
| Q501 | | | 2SD1819A(Q,R) | TRANSISTOR | | |
| Q503 | | | 2SC4081(R,S) | TRANSISTOR | | |
| Q503 | | | 2SC4116(Y,GR) | TRANSISTOR | | |
| Q503 | | | 2SC4177(L5,L6) | TRANSISTOR | | |
| Q503 | | | 2SD1819A(Q,R) | TRANSISTOR | | |
| TH1 | | | PTH9C42BD471Q | POSITIVE RESISTOR | MCXYIV | |
| A501 | | | W02-2625-05 | OPTIC RECEIVING MODULE | | |

## SUB (X25-6222-70)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| C1 | | | CE04KW1C100M | ELECTRO | 10UF | 16WV | |
| C2 | | | CC73FCH1H470J | CHIP C | 47PF | J | |
| C3, 4 | | | CC73FSL1H221J | CHIP C | 220PF | J | |
| CN1 | | | E40-3247-05 | PIN ASSY | | | |
| CN2 | | | E40-3249-05 | PIN ASSY | | | |
| J1 | | ✻ | E63-1072-05 | PHONO JACK | | | |
| R1 | | | RK73FB2A750J | CHIP R | 75 | J | 1/10W |
| R2, 3 | | | RK73FB2A102J | CHIP R | 1.0K | J | 1/10W |
| R4, 5 | | | RK73FB2A224J | CHIP R | 220K | J | 1/10W |
| W1 | | | R92-0670-05 | CHIP R | 0 OHM | | |
| S1 | | ✻ | S68-0113-05 | PUSH SWITCH | | | |
| D1 | | | DA204U | DIODE | | | |

**L :** Scandinavia **K :** USA **P :** Canada **R :** Mexico **C :** China **I :** Malaysia
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**Y :** AAFES(Europe) **X :** Australia **Q :** Russia **H :** Korea **M :** Other Areas ⚠ indicates safety critical components.

# SPECIFICATIONS

## *For Europe and England*

### *AUDIO section*

**Rated power output during STEREO operation**
- **KRF-V7020**
- **(DIN) 1 kHz, 0.7% at 4 Ω ..... 100 W + 100 W**
- **KRF-V6020, KRF-V5020**
- **(DIN) 1 kHz, 0.7% at 4 Ω ..... 80 W + 80 W**

**Effective power output during SURROUND operation**
- **KRF-V7020**
- **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**
- **KRF-V6020, KRF-V5020**
- **FRONT (1kHz, 0.7% T.H.D. at 4 Ω one channel driven) ..... 80 W + 80 W**
- **CENTER (1kHz, 0.7% T.H.D. at 4 Ω one channel driven) ..... 80 W**
- **SURROUND (1kHz, 0.7% T.H.D. at 4 Ω one channel driven) ..... 80 W + 80 W**

**Total harmonic distortion ..... 0.05% (1 kHz, 40W, 4 Ω)**
**Frequency response**
- **CD ..... 10 Hz ~ 60 kHz, +0 dB, –3.0 dB**

**Signal to noise ratio**
- **PHONO (MM) ..... 75 dB (IHF'66)**
- **CD ..... 93 dB (IHF'66)**

**Input sensitivity / impedance**
- **PHONO (MM) ..... 2.5 mV / 27 kΩ**
- **CD ..... 200 mV / 47 kΩ**
- **DVD 6CH (SUBWOOFER) ..... 200 mV / 10 kΩ**

**Output level / impedance**
- **TAPE REC ..... 200 mV / 2.2 kΩ**
- **PRE OUT (CENTER, SURROUND) ..... 1 V / 2,2 kΩ**
- **PRE OUT (SUBWOOFER) ..... 2 V / 2.2 kΩ**

**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 ..... 1.2 μV / 13.2 dBf (40 kHz DEV., S/N 26 dB)**
- **STEREO ..... 45 μV / 44.2 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)**
- **MONO ..... 65 dB (40 kHz DEV., 65.2 dBf input)**
- **STEREO ..... 60 dB (46 kHz DEV., 65.2 dBf input)**

**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 μV / (600 μV/m)**
**Signal to noise ratio (30% mod., 1 mV input) ..... 50 dB**

### *GENERAL*

**Power consumption ..... 230 W**
**AC outlet**
- **SWITCHED ..... 2 (total 150 W max.)**

**Dimensions ..... W : 440 mm**
**H : 144 mm**
- **KRF-V7020 ..... D : 400 mm**
- **KRF-V6020, KRF-V5020 ..... D : 390 mm**

**Weight (Net)**
- **KRF-V7020 ..... 9.2 kg**
- **KRF-V6020 ..... 8.4 kg**
- **KRF-V5020 ..... 8.2 kg**

## *For other countries*

### *AUDIO section*

**Effective power output during STEREO operation**
- **KRF-V6020**
- **1kHz,10% T.H.D.,at 8 Ω ..... 120 W + 120 W**
- **KRF-V5020**
- **1kHz,10% T.H.D.,at 8 Ω ..... 110 W + 110 W**

**Rated power output during STEREO operation**

**80 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) ..... 80 W + 80 W**
- **CENTER (1kHz, 10% T.H.D. at 8 Ω one channel driven) ..... 80 W**
- **SURROUND (1kHz, 10% T.H.D. at 8 Ω one channel driven) ..... 80 W + 80 W**

**Total harmonic distortion ..... 0.05%(1 kHz, 40W, 8 Ω)**
**Frequency response**
- **CD ..... 10 Hz ~ 60 kHz, +0 dB, –3.0 dB**

**Signal to noise ratio (IHF'66)**
- **PHONO (MM) ..... 75 dB**
- **CD ..... 93 dB**

**Input sensitivity / impedance**
- **PHONO (MM) ..... 2.5 mV / 27 kΩ**
- **CD ..... 200 mV / 47 kΩ**
- **DVD 6CH (SUBWOOFER) ..... 200 mV / 10 kΩ**

**Output level / impedance**
- **TAPE REC ..... 200 mV / 2.2 kΩ**
- **PRE OUT (SUBWOOFER) ..... 2 V / 2.2 kΩ**

**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 (MONO) ..... 1.6 μV (75 Ω)/ 15.2 dBf (75 kHz DEV., SINAD 30 dB)**
**50dB quieting sensitivity**
- **STEREO ..... 31.6 μV (75 Ω)/ 41.2 dBf**

**Total harmonic distortion (1 kHz)**
- **MONO ..... 0.6% (65 dBf input)**
- **STEREO ..... 0.7% (65 dBf input)**

**Signal to noise ratio (1 kHz, 75 kHz DEV.)**
- **MONO ..... 75 dB (65 dBf input)**
- **STEREO ..... 68 dB (65 dBf input)**

**Stereo separation (1 kHz) ..... 38 dB**
**Selectivity (±400 kHz) ..... 50 dB**
**Frequency response ..... 30 Hz ~ 15kHz, +0.5 dB, –3.0 dB**

### *AM tuner section*

**Tuning frequency range**
- **For Australia**
- **9 kHz step ..... 531 kHz ~ 1,602 kHz**
- **Except for Australia**
- **9 kHz step ..... 531 kHz ~ 1,602 kHz**
- **10 kHz step ..... 530 kHz ~ 1,610 kHz**

**Usable sensitivity (30% mod., S/N 20 dB) ..... 16 μV / (600 μV/m)**
**Signal to noise ratio (30% mod. 1 mV input) ..... 50 dB**

### *GENERAL*

**Power consumption**
- **KRF-V6020 ..... 280 W**
- **KRF-V5020 ..... 230 W**

**AC outlet**
- **SWITCHED (for Australia) ..... 1 (total 150 W max.)**
- **SWITCHED (except Australia) ..... 2 (total 150 W max.)**

**Dimensions ..... W : 440 mm**
**H : 144 mm**
**D : 400 mm**

**Weight (Net)**
- **KRF-V6020 ..... 9.4 kg**
- **KRF-V5020 ..... 8.2 kg**

Notes
1. KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.
2. The full performance may not be exhibited in an extremely cold location (under a water-freezing temperature).

# KRF-V5020/V6020/V7020/VR-305/306/355

# SPECIFICATIONS

***For U.S.A and Canada***

***AUDIO section***

**Rated power output during STEREO operation**

**VR-306**

**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)**

**VR-305, VR-355**

**80 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**

**VR-306**

**FRONT (1kHz, 0.7% T.H.D. at 8 Ω one channel driven) ..... 100 W + 100 W**

**CENTER (1kHz, 0.7% T.H.D. at 8 Ω one channel driven) ..... 100 W**

**SURROUND (1kHz, 0.7% T.H.D. at 8 Ω one channel driven) ..... 100 W + 100 W**

**VR-305, VR-355**

**FRONT (1kHz, 0.7% T.H.D. at 8 Ω one channel driven) ..... 80 W + 80 W**

**CENTER (1kHz, 0.7% T.H.D. at 8 Ω one channel driven) ..... 80 W**

**SURROUND (1kHz, 0.7% T.H.D. at 8 Ω one channel driven) ..... 80 W + 80 W**

**Total harmonic distortion ..... 0.05% (1 kHz, 40W, 8 Ω)**

**Frequency response**

**CD ..... 10 Hz ~ 60 kHz, +0 dB, –3.0 dB**

**Signal to noise ratio (IHF'66)**

**PHONO (MM) ..... 75 dB**

**CD ..... 93 dB**

**Input sensitivity / impedance**

**PHONO (MM) ..... 2.5 mV / 27 kΩ**

**CD ..... 200 mV / 47 kΩ**

**DVD 6CH (SUBWOOFER) ..... 200 mV / 10 kΩ**

**Output level / impedance**

**TAPE REC ..... 200 mV / 2.2 kΩ**

**PRE OUT (SUBWOOFER) ..... 2 V / 2.2 kΩ**

**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 (MONO)**

**..... 1.6 μV (75 Ω)/ 15.2 dBf (75 kHz DEV., SINAD 30 dB)**

**50dB quieting sensitivity**

**STEREO ..... 31.6 μV (75 Ω)/ 41.2 dBf**

**Total harmonic distortion (1 kHz)**

**MONO ..... 0.6% (65 dBf input)**

**STEREO ..... 0.7% (65 dBf input)**

**Signal to noise ratio (1 kHz, 75 kHz DEV.)**

**MONO ..... 75 dB (65 dBf input)**

**STEREO ..... 68 dB (65 dBf input)**

**Stereo separation (1 kHz) ..... 38 dB**

**Selectivity (±400 kHz) ..... 65 dB**

**Frequency response ..... 30 Hz ~ 15kHz, +0.5 dB, –3.0 dB**

***AM tuner section***

**Tuning frequency range**

**10 kHz step ..... 530 kHz ~ 1,700 kHz**

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

**..... 16 μV / (600 μV/m)**

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

***GENERAL***

**Power consumption**

**VR-306 ..... 2.6 A**

**VR-305, VR-355 ..... 2.2 A**

**AC outlet**

**SWITCHED ..... 2 (total 150 W, 1.25 A max.)**

**Dimensions ..... W : 440 mm (17-5/16")**

**H : 144 mm (5-11/16")**

**D : 390 mm (15-3/8")**

**Weight (Net)**

**VR-306 ..... 8.8 kg (19.4 lb)**

**VR-305, VR-355 ..... 8.2 kg (18.1 lb)**

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Notes

1. KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.
2. The full performance may not be exhibited in an extremely cold location (under a water-freezing temperature).

**Note:**

Component and circuit are subject to modification to insure best operation under differing local conditions. This manual is based on General market(M) 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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