

AUDIO VIDEO SURROUND RECEIVER
 KRF-V5020/V5020E/V5020W/V5020(S)
 V6020/V6020E/V6020W/
 V7020/V7020E/V7020W/
 VR-305/306/355
SERVICE MANUAL

KENWOOD

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

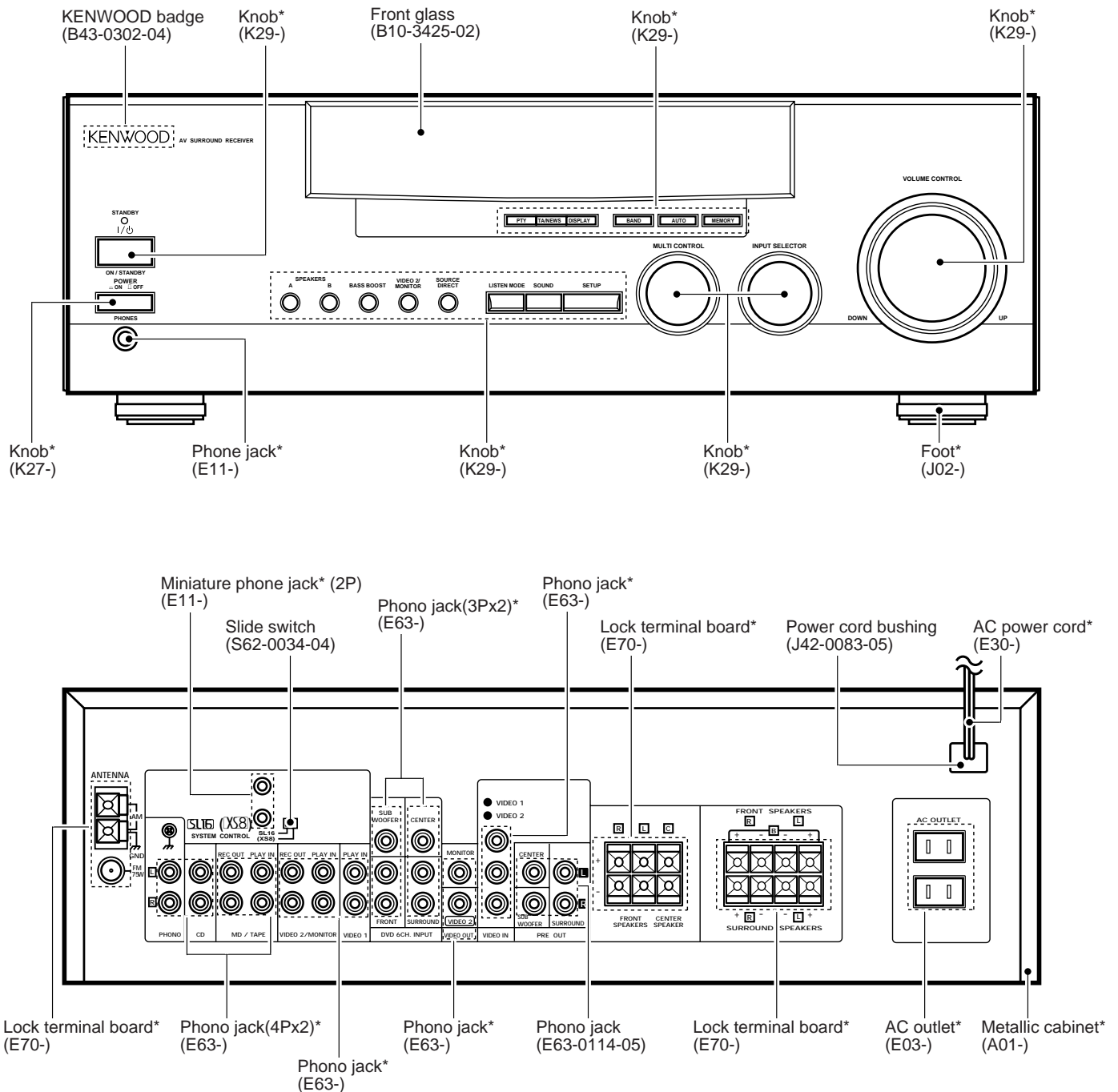


Illustration is KRF-V5020.

* Refer to parts list on page 23-.




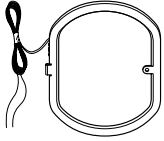
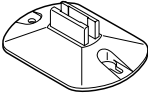
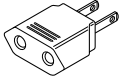
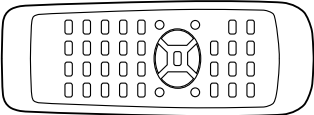
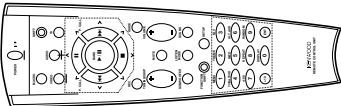
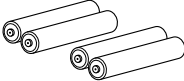
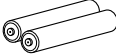
KRF-V5020/V6020/V7020/VR-305/306/355

CONTENTS / ACCESSORIES

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Accessories

| | | | |
|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>FM indoor antenna (1) (T90-0836-05)</p>  | <p>--AM loop antenna (1) (T90-0833-05) --</p>  | <p>Loop antenna stand (1) (J19-3645-05)</p>  | <p>AC plug adaptor (1) (E03-0115-05)</p>  <p>*Use to adapt the plug on the power cord to the shape of the wall outlet. (Accessory only for regions where use is necessary.)</p> |
| <p>Remote control unit (1) RC-R0710/R0711</p>  | <p>Remote control unit (1) RC-R0508/R0608</p>  | <p>Batteries (R03/AAA) (4)</p>  | <p>Batteries (R06/AA) (2)</p>  |

Model name vs remote controller

| Model | Destinations | Remote Controller | | |
|--------------|----------------|-------------------|------------|---------------|
| | | 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 microcomputer 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.

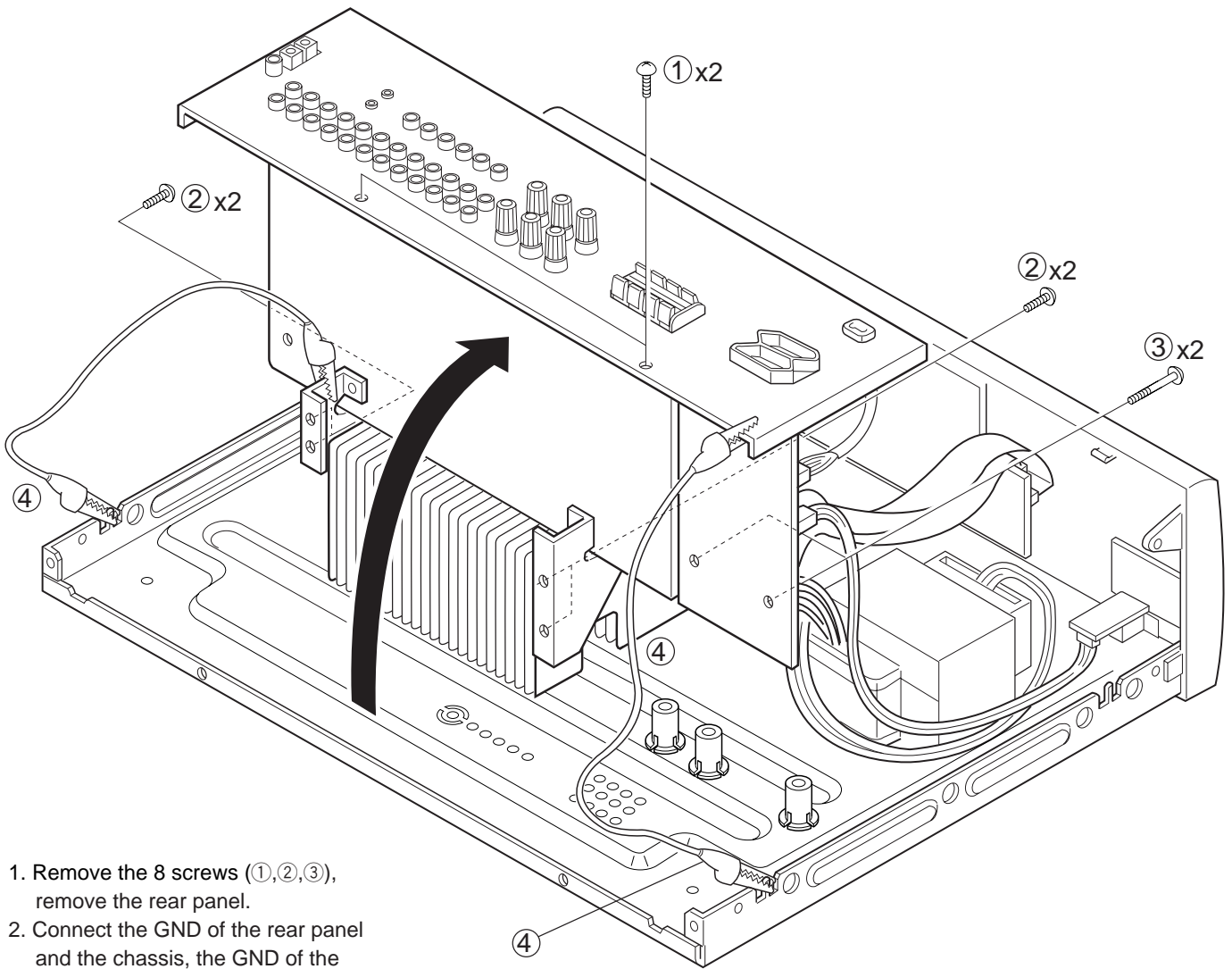
For other countries

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.

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

DISASSEMBLY FOR REPAIR

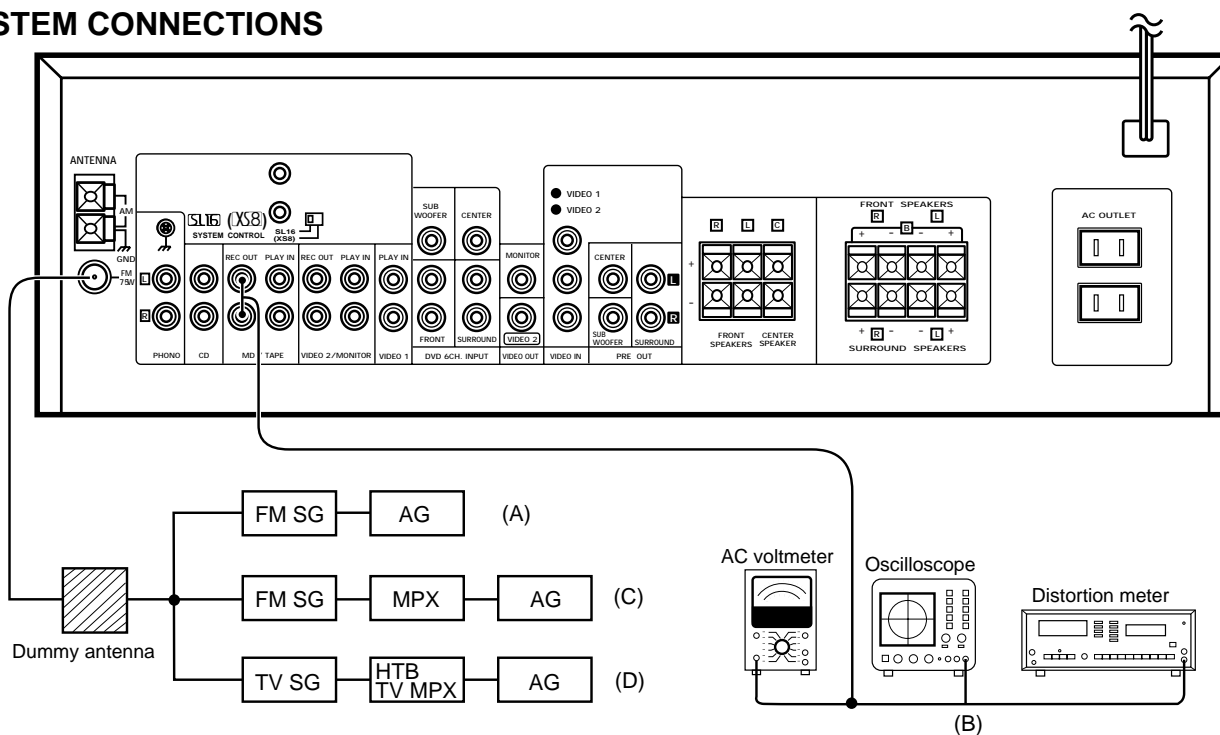


1. Remove the 8 screws (①,②,③), remove the rear panel.
2. Connect the GND of the rear panel and the chassis, the GND of the mounting hardware and the chassis with 2 alligators clip (④)

ADJUSTMENT

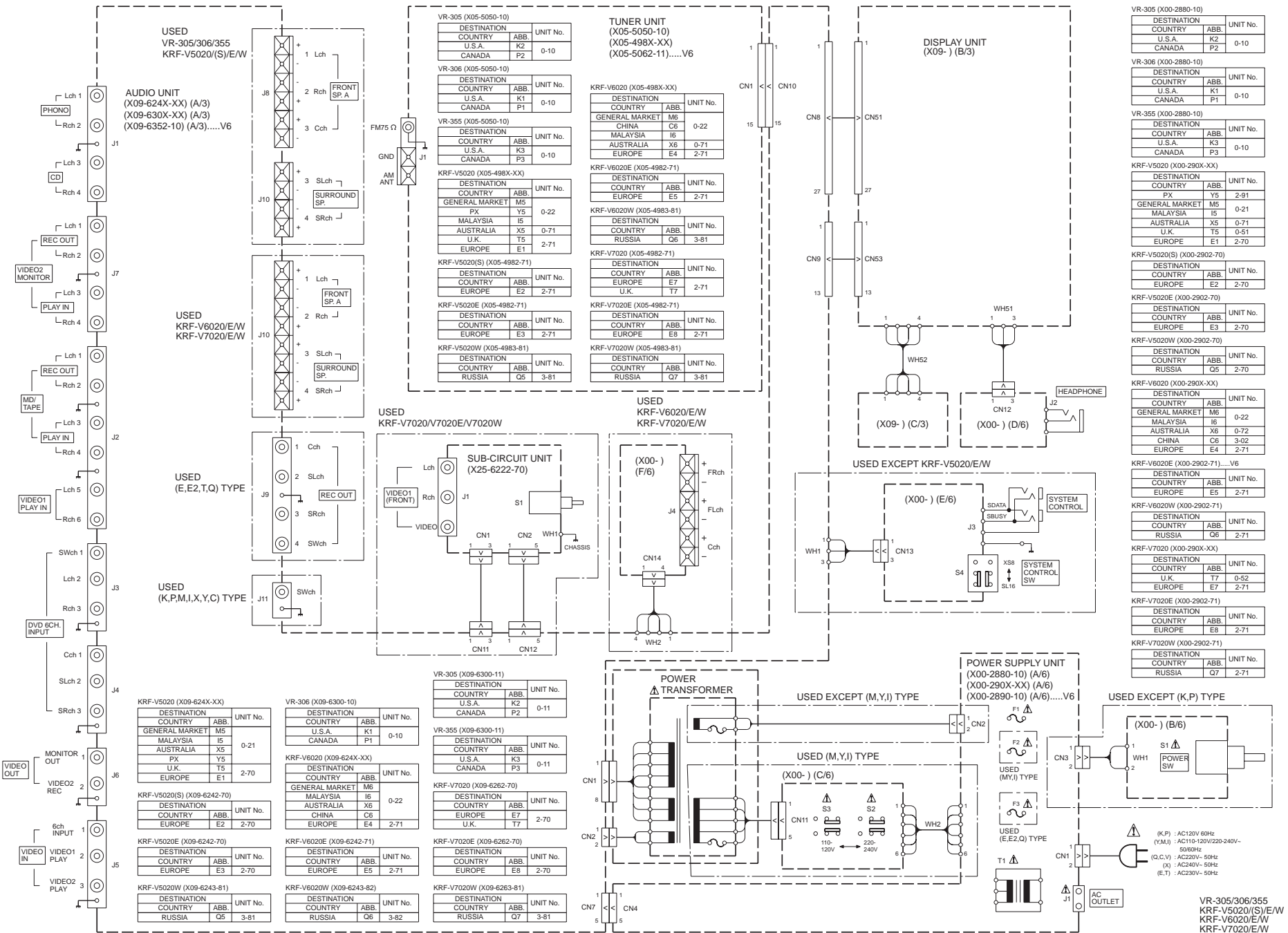
| No. | ITEM | INPUT SETTINGS | OUTPUT SETTINGS | RECEIVER SETTINGS | ALIGNMENT POINTS | ALIGN FOR | FIG. |
|-------------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------|-----------------------------|-----------------------------------------------------------------------|------|
| 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



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

WIRING DIAGRAM

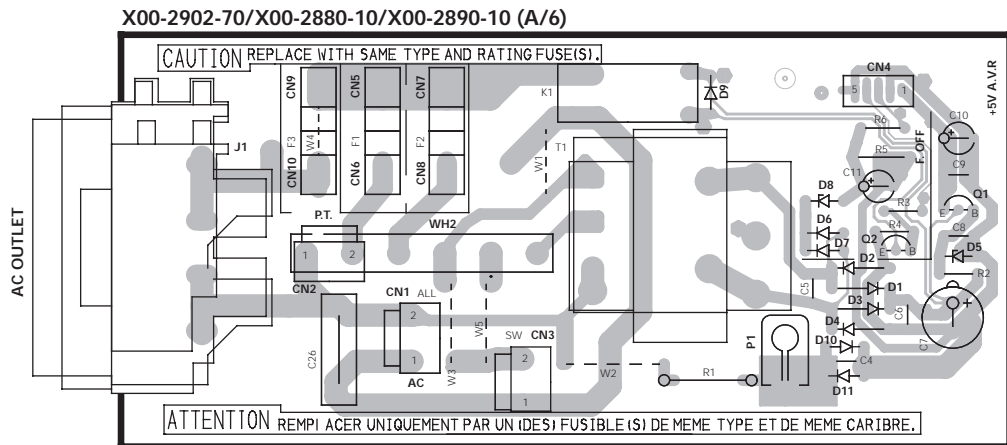
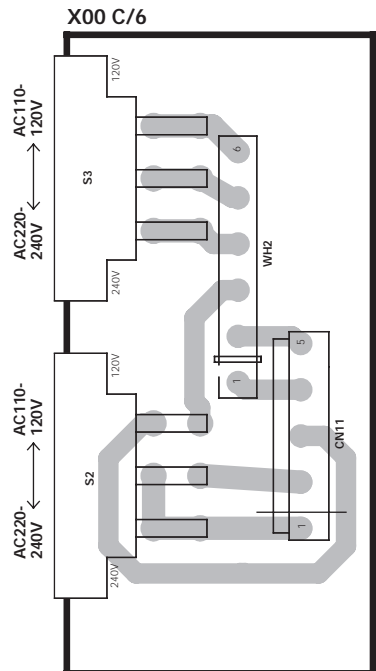
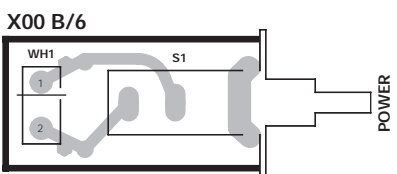
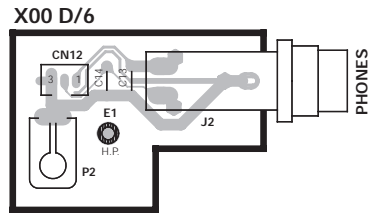
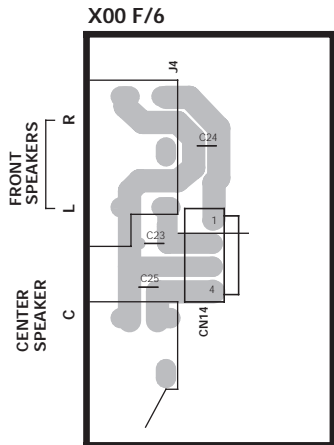
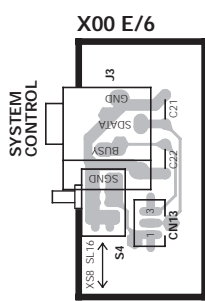
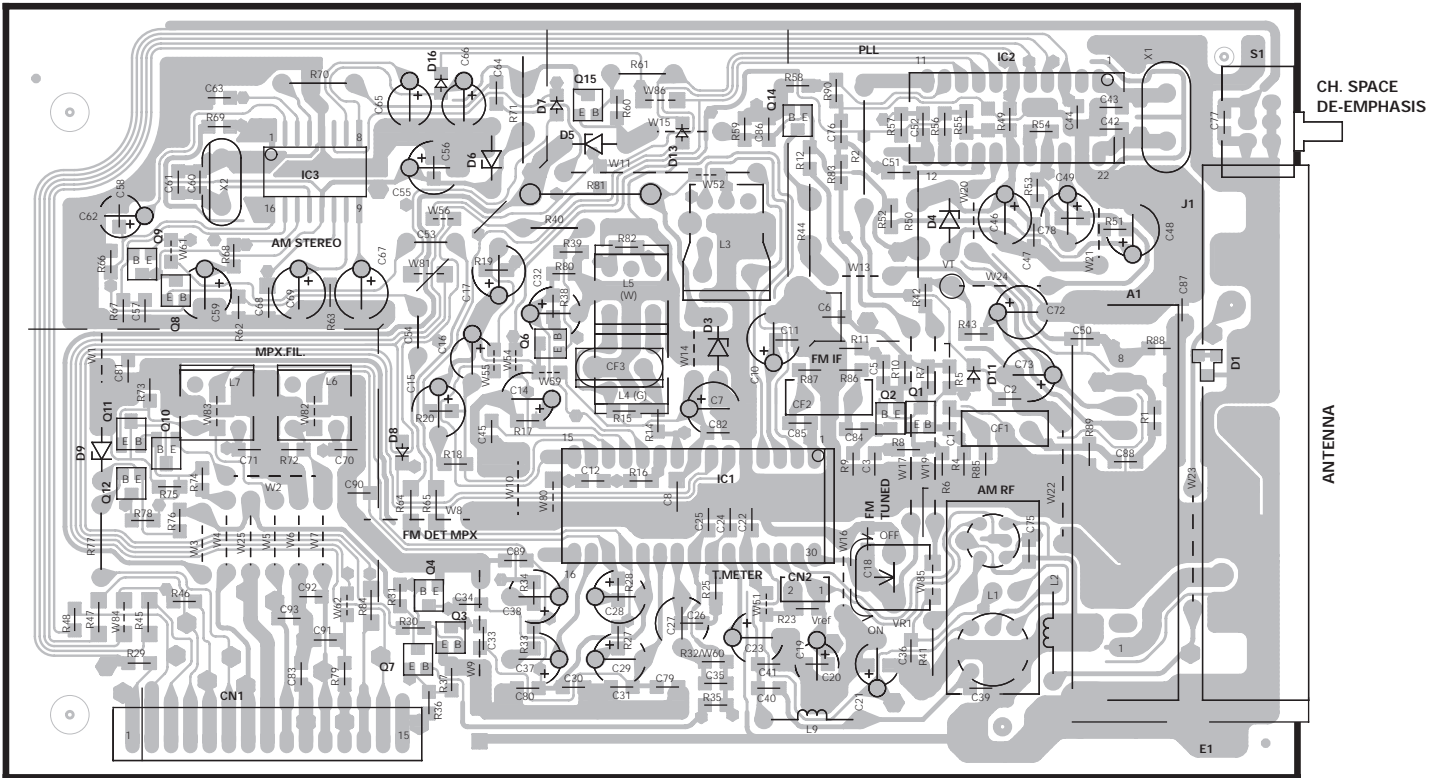


(K,P): AC120V 60Hz
 (Y,M): AC110-120V/50-60Hz
 (G,C,Y): AC220V-50Hz
 (X): AC240V-50Hz
 (E,T): AC230V-50Hz

VR-305/306/355
 KRF-V5020(S)/E/W
 KRF-V6020/E/W
 KRF-V7020/E/W

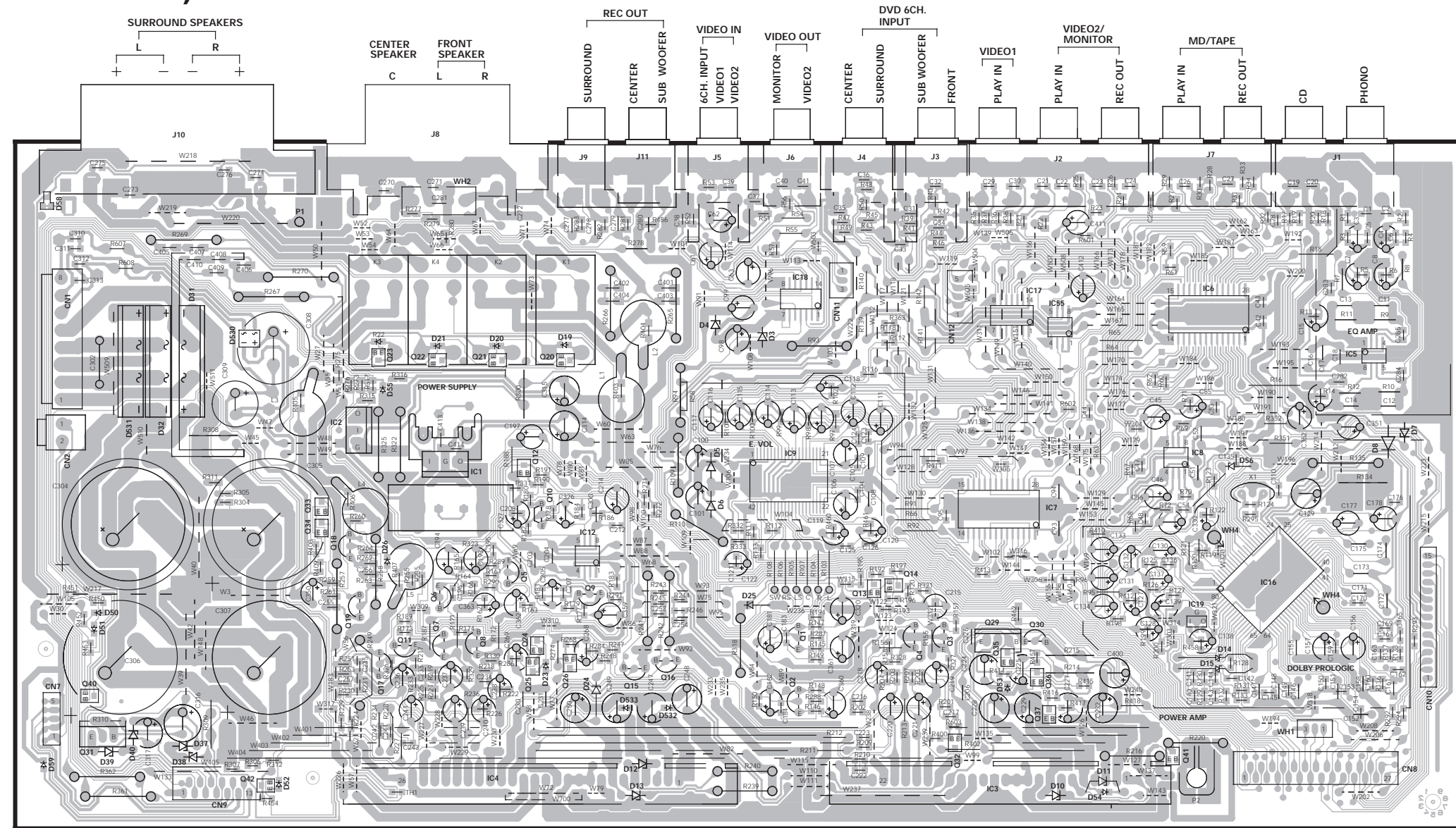
PC BOARD(Component side view)

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

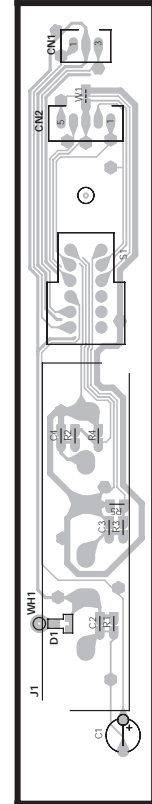


Refer to the schematic diagram for the value of resistors and capacitors.

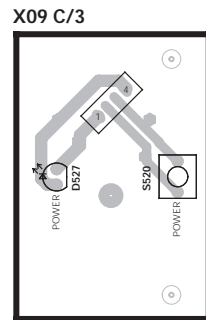
PC BOARD(Component side view)



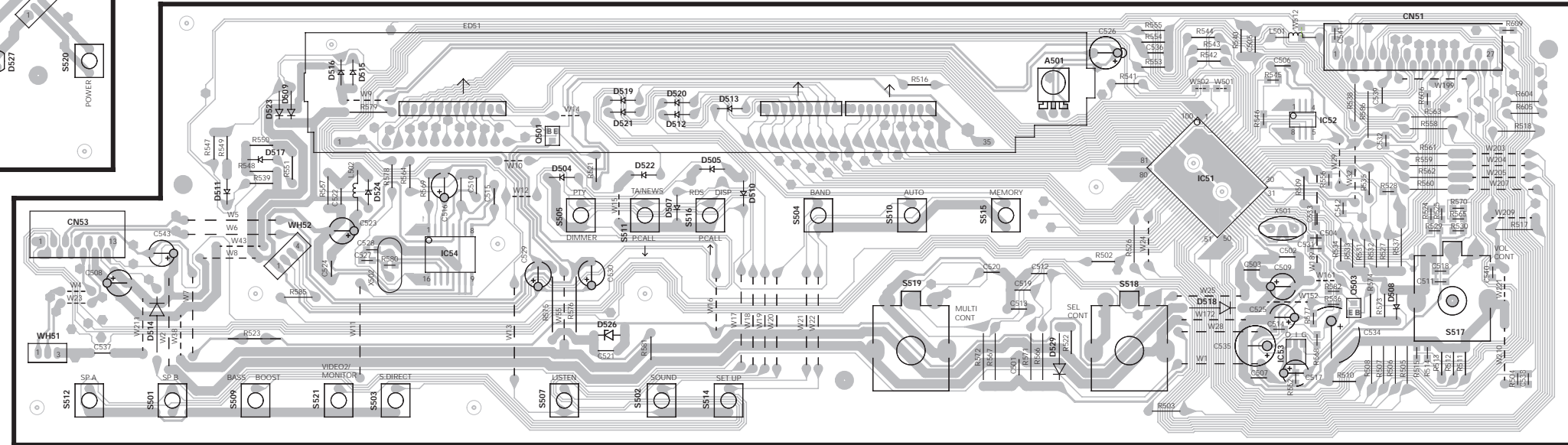
X25-6222-70 (J70-1296-01)



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



X09 B/3



Lch
Rch
VIDEO

| VR-355 (X05-5050-10) | | UNIT No. | (A) | (B) | (C) | (F) | (R) | R8 | 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 | |
|----------------------|------|----------|-----|-----|-----|-----|-----|----|-----|-----------|-----|-----|--------|-----|--------|----------------|-----|-----|--------|-----|-----|-----------------|----|
| DESTINATION | ABB. | | | | | | | | | | | | | | | | | | | | | | |
| COUNTRY | ABB. | | | | | | | | | | | | | | | | | | | | | | |
| U.S.A. | K3 | 0-10 | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| CANADA | P3 | | | | | | | | | | | | | | | | | | | | | | |

| KRF-V5020 (X05-498X-XX) | | UNIT No. | (A) | (C) | (F) | (B) | (R) | 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 | C74 | |
|-------------------------|------|----------|-----|-----|-----|-----|-----|----|-----|-----|-----------|-----|-----|--------|-----|--------|----------------|-----|-----|--------|-----|-----|-----------------|-----|--|
| DESTINATION | ABB. | | | | | | | | | | | | | | | | | | | | | | | | |
| COUNTRY | ABB. | | | | | | | | | | | | | | | | | | | | | | | | |
| U.S.A. | K3 | 0-22 | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | |
| CANADA | P3 | | | | | | | | | | | | | | | | | | | | | | | | |

| KRF-V5020(S) (X05-4982-71) | | UNIT No. | (A) | (C) | (F) | (B) | (R) | 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 | |
|----------------------------|------|----------|-----|-----|-----|-----|-----|----|-----|-----|-----------|-----|-----|--------|-----|--------|----------------|-----|-----|--------|-----|-----|-----------------|----|
| DESTINATION | ABB. | | | | | | | | | | | | | | | | | | | | | | | |
| COUNTRY | ABB. | | | | | | | | | | | | | | | | | | | | | | | |
| EUROPE | E2 | 2-71 | YES | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO |

| KRF-V5020E (X05-4982-71) | | UNIT No. | (A) | (C) | (F) | (B) | (R) | 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 | |
|--------------------------|------|----------|-----|-----|-----|-----|-----|----|-----|-----|-----------|-----|-----|--------|-----|--------|----------------|-----|-----|--------|-----|-----|-----------------|----|
| DESTINATION | ABB. | | | | | | | | | | | | | | | | | | | | | | | |
| COUNTRY | ABB. | | | | | | | | | | | | | | | | | | | | | | | |
| EUROPE | E3 | 2-71 | YES | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO |

| KRF-V5020W (X05-4983-81) | | UNIT No. | (A) | (C) | (F) | (B) | (R) | 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 | |
|--------------------------|------|----------|-----|-----|-----|-----|-----|----|-----|-----|-----------|-----|-----|--------|-----|--------|----------------|-----|-----|--------|-----|-----|-----------------|----|
| DESTINATION | ABB. | | | | | | | | | | | | | | | | | | | | | | | |
| COUNTRY | ABB. | | | | | | | | | | | | | | | | | | | | | | | |
| RUSSIA | Q5 | 3-81 | YES | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO |

| KRF-V6020 (X05-498X-XX) | | UNIT No. | (A) | (C) | (F) | (B) | (R) | 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 | C74 | |
|-------------------------|------|----------|-----|-----|-----|-----|-----|----|-----|-----|-----------|-----|-----|--------|-----|--------|----------------|-----|-----|--------|-----|-----|-----------------|-----|----|
| DESTINATION | ABB. | | | | | | | | | | | | | | | | | | | | | | | | |
| COUNTRY | ABB. | | | | | | | | | | | | | | | | | | | | | | | | |
| CHINA | C6 | 0-22 | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO |
| EUROPE | E4 | 2-71 | YES | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO |

| KRF-V6020E (X05-5062-11) | | COUNTRY | ABB. | (A) | (C) | (F) | (B) | C8 | C25 | C26 | C30,31 | C42 | C43 | C70,71,79,80,82 | C89,90 | CN2 | J1 | E1 | CF1.2 | CF3 | | |
|--------------------------|----|---------|------|-----|-----|-----|-----|-----|-----|-----|--------|-----|-----|-----------------|--------|-----|-----|-----|-------|-----|-----|-----|
| SHANGHAI | V6 | NO | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES | YES |

| KRF-V6020W (X05-4983-81) | | UNIT No. | (A) | (C) | (F) | (B) | (R) | 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 | |
|--------------------------|------|----------|-----|-----|-----|-----|-----|----|-----|-----|-----------|-----|-----|--------|-----|--------|----------------|-----|-----|--------|-----|-----|-----------------|----|
| DESTINATION | ABB. | | | | | | | | | | | | | | | | | | | | | | | |
| COUNTRY | ABB. | | | | | | | | | | | | | | | | | | | | | | | |
| RUSSIA | Q6 | 3-81 | YES | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO |

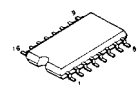
| KRF-V7020 (X05-4982-71) | | UNIT No. | (A) | (C) | (F) | (B) | (R) | R8 | R11 | R14 | R15,36,82 | R23 | R25 | R27,28 | R32 | R72,73 | C8,35,74,89,90 | C25 | C26 | C30,31 | C42 | C43 | C70,71,79,80,82 | |
|-------------------------|------|----------|-----|-----|-----|-----|-----|----|-----|-----|-----------|-----|-----|--------|-----|--------|----------------|-----|-----|--------|-----|-----|-----------------|----|
| DESTINATION | ABB. | | | | | | | | | | | | | | | | | | | | | | | |
| COUNTRY | ABB. | | | | | | | | | | | | | | | | | | | | | | | |
| EUROPE | E7 | 2-71 | YES | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO |

| KRF-V7020E (X05-4982-71) | | UNIT No. | (A) | (C) | (F) | (B) | (R) | 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 | |
|--------------------------|------|----------|-----|-----|-----|-----|-----|----|-----|-----|-----------|-----|-----|--------|-----|--------|----------------|-----|-----|--------|-----|-----|-----------------|----|
| DESTINATION | ABB. | | | | | | | | | | | | | | | | | | | | | | | |
| COUNTRY | ABB. | | | | | | | | | | | | | | | | | | | | | | | |
| EUROPE | E8 | 2-71 | YES | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO |

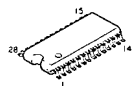
| KRF-V7020W (X05-4983-81) | | UNIT No. | (A) | (C) | (F) | (B) | (R) | R8 | R11 | R14 | R15,36,82 | R23 | R25 | R27,28 | R32 | R72,73 | C8,35,74,89,90 | C25 | C26 | C30,31 | C42 | C43 | C70,71,79,80,82 | |
|--------------------------|------|----------|-----|-----|-----|-----|-----|----|-----|-----|-----------|-----|-----|--------|-----|--------|----------------|-----|-----|--------|-----|-----|-----------------|----|
| DESTINATION | ABB. | | | | | | | | | | | | | | | | | | | | | | | |
| COUNTRY | ABB. | | | | | | | | | | | | | | | | | | | | | | | |
| RUSSIA | Q7 | 3-81 | YES | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO |

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

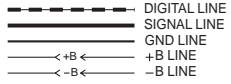
SAA6579T



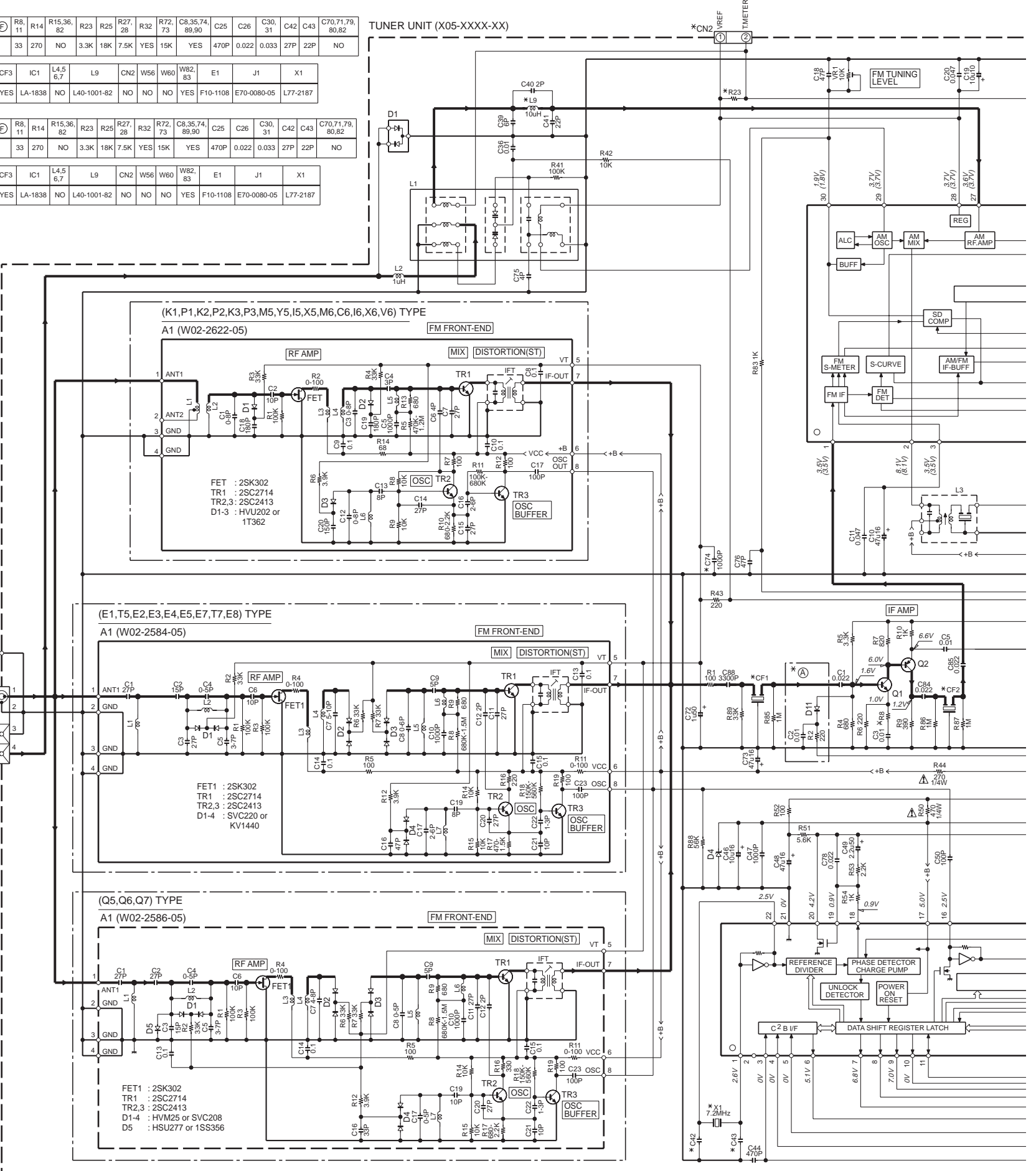
TC9162AF
TC9164AF



- 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 : *



TUNER UNIT (X05-XXXX-XX)

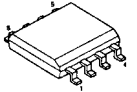


| MODE | CARRIER | MODULATION | | ANT INPUT |
|------|--------------|------------|------------------------------|-----------|
| | | FREQUENCY | DEVIATION | |
| FM | 98MHz | 1kHz | STEREO 67.5kHz 7.5kHz(Pilot) | 60dB |
| AM | 1000(999)kHz | 400Hz | MONO 30% MOD | 60dB |

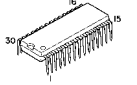
The DC voltage is an actual reading measured with a high impedance type voltmeter as the AM/FM signal generator is specified to the conditions as shown in the list below. The measurement value may vary depending on the measuring instruments used or on the product. The value shown in () is actual reading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

(X05-XXXX-XX)

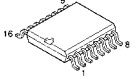
X24C02S



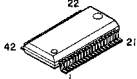
LA1837
LA1838



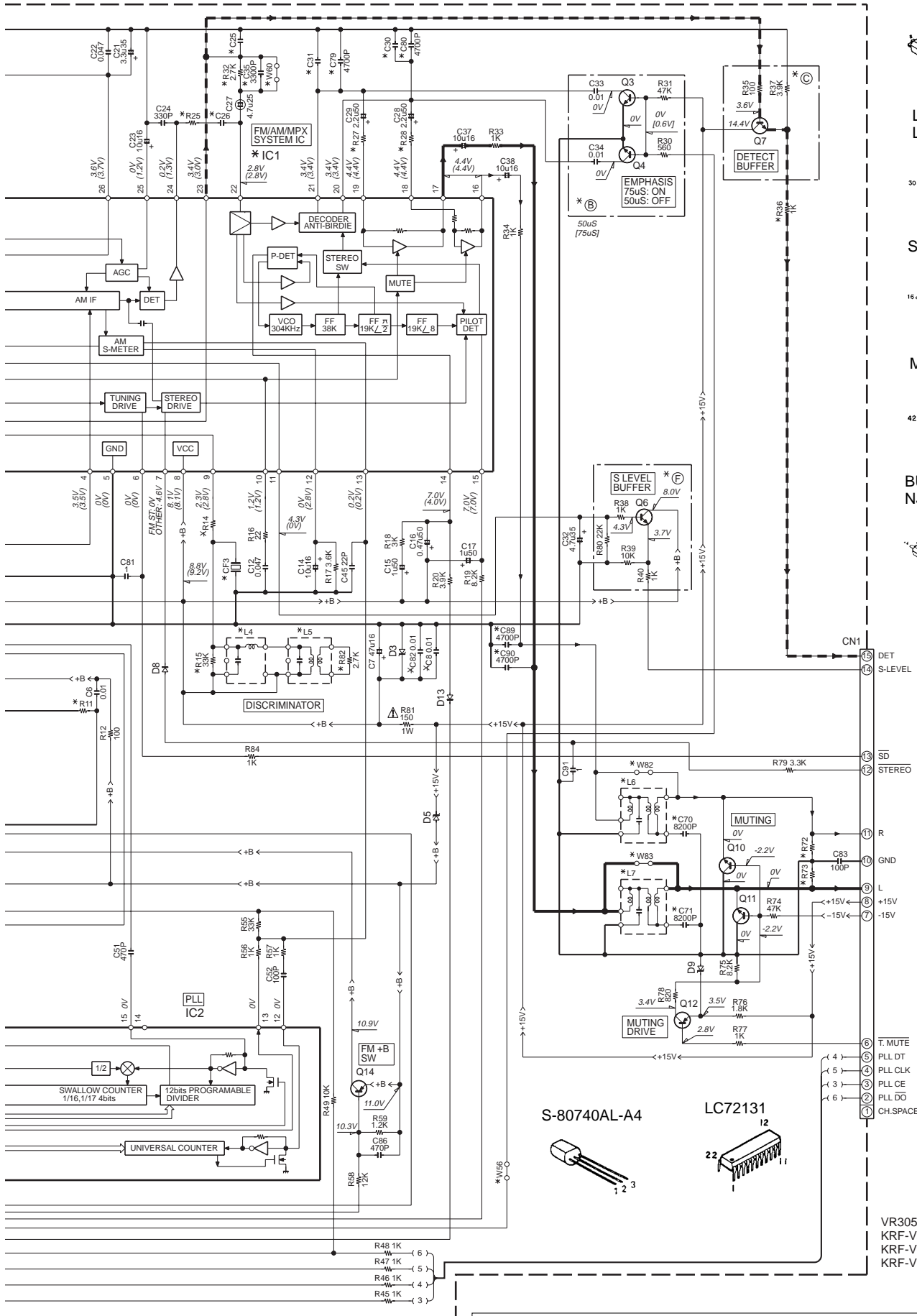
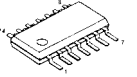
SAA6579T/R



M62446FP



BU4066BCF
NJM2279M



X09-A/3



(A)

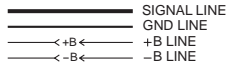
- 15 DET
- 14 S-LEVEL
- 13 SD
- 12 STEREO
- 11 R
- 10 GND
- 9 L
- 8 +15V
- 7 -15V
- 6 T. MUTE
- 5 PLL DT
- 4 PLL CLK
- 3 PLL CE
- 2 PLL DD
- 1 CH. SPACE

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

Y05-3782-70

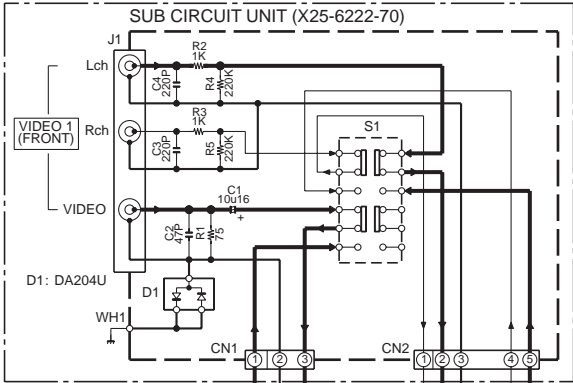
KENWOOD

- IC1 : TA7815SB
 IC2 : TA79015SB
 IC3 : *
 IC4 : *
 IC5 : NUM4580ED
 IC6 : TC9164AF
 IC7 : TC9162AF
 IC8,12,55 : NUM4565MD
 IC9 : M62446FP
 IC16 : M62460FP
 IC17 : BU4066BCF
 IC18 : NUM2279M
 IC19 : M5278L05M
- 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
- D3,4,7 : MTZJ5.1(B) or
 RD5.1ES(B2)
 D5,6 : MTZJ6.8(B) or
 RD6.8ES(B2)
 D8 : MTZJ11(B) or
 RD11ES(B2)
 D10,12,13 : MTZJ8.2(B) or
 RD8.2ES(B2)
 D11,56 : MTZJ7.5(B) or
 RD7.5ES(B2)
 D14,15 : MTZJ10(B) or
 RD10ES(B2)
 D19-23,26,50-55,59,532,533 : MA111
 D24 : MTZJ4.7(B) or
 RD4.7ES(B2)
 D25 : MTZJ3.3(B) or
 RD3.3ES(B2)
 D31,32 : D4SBL20UF03
 D37,38 : MTZJ16(B) or
 RD16ES(B2)
 D39,40 : MTZJ18(B) or
 RD18ES(B2)
 D530 : S1ZB20(4072)



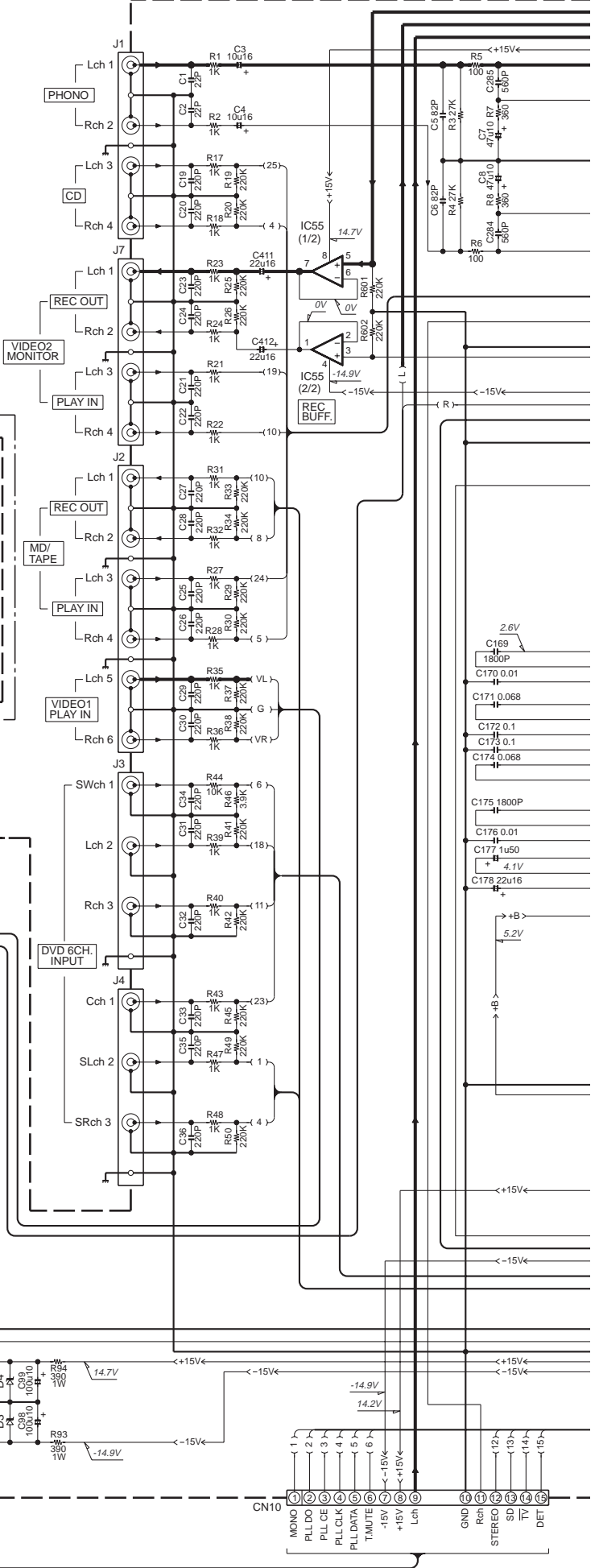
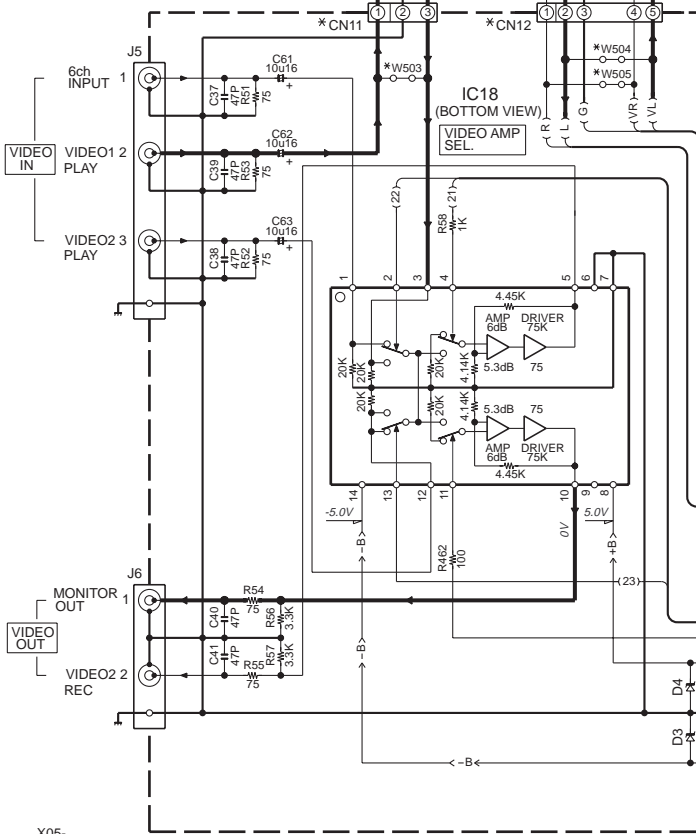
AUDIO UNIT
 (X09-6XXX-XX) (A/3)

USED
 KRF-V7020/E/W

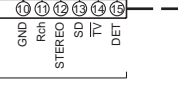
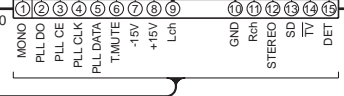


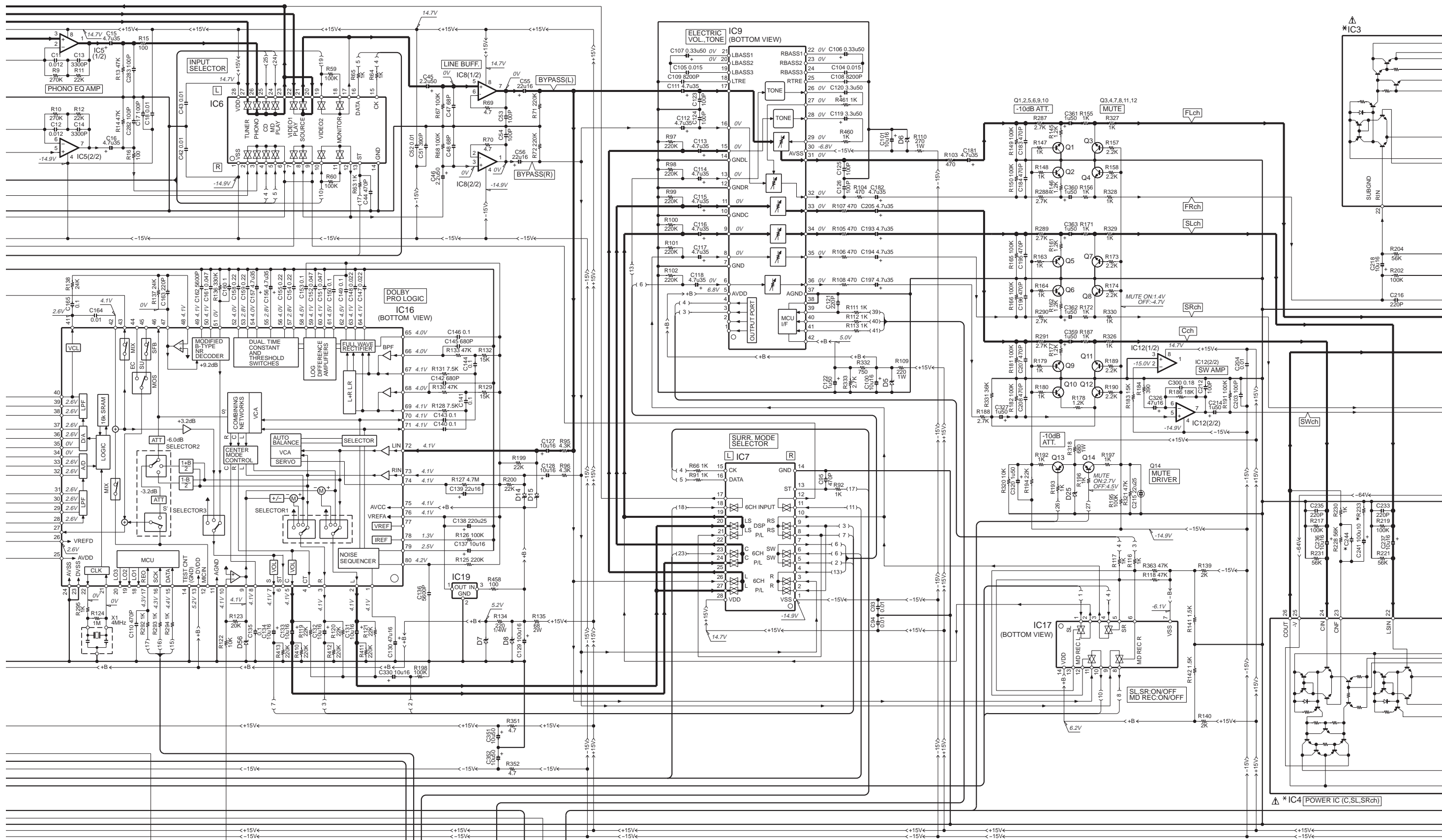
IC18 I/O TABLE

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



X05-CN1
 1/3
 A



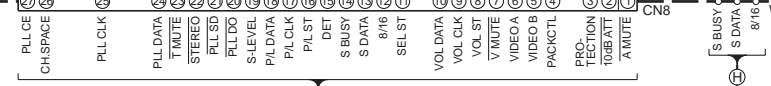


DC VOLTAGE FOR IC3

| PIN NO | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
|-----------|---|-------|---|---|---------|-------|--------|----------|----------|--------|--------|--------|----|----|----|--------|-------|----|----|--------|----|----|
| KRF-V5020 | A | 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-V6020 | A | 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 | A | 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 |
| VR355 | A | 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 | A | 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 |

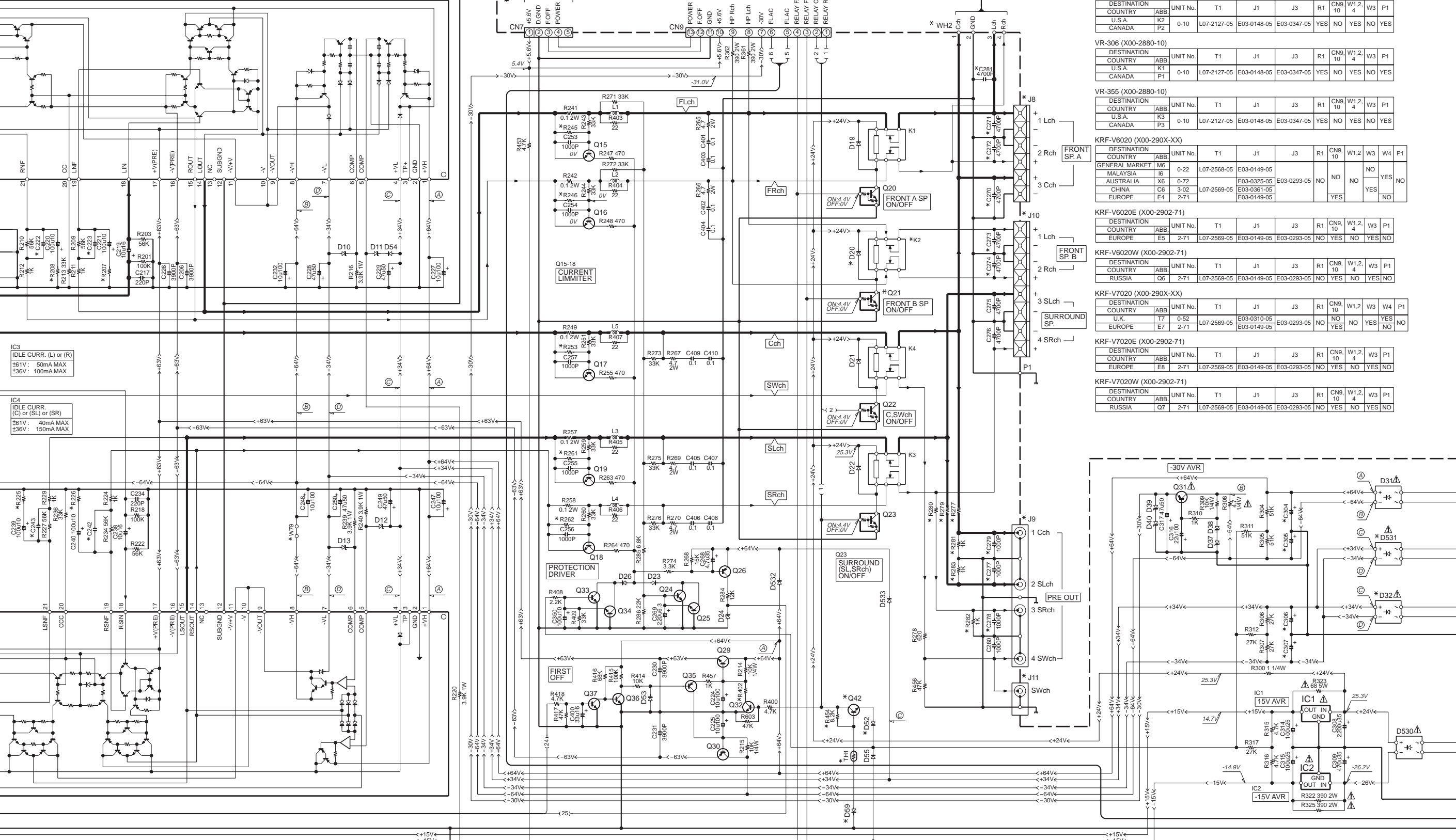
DC VOLTAGE FOR IC4

| PIN NO | 1 | 2 | 3 | 4 | 5 | 6 | 7 | |
|-----------|---|-------|---|---|---------|-------|--------|----------|
| KRF-V5020 | A | 53.0V | - | - | ⊖ 32.7V | 24.7V | -24.9V | ⊕ -32.7V |
| KRF-V6020 | A | 53.0V | - | - | ⊖ 23.5V | 15.5V | -15.3V | ⊕ -23.5V |
| VR305 | A | 53.0V | - | - | ⊖ 32.2V | 24.3V | -24.3V | ⊕ -32.2V |
| VR355 | A | 53.0V | - | - | ⊖ 32.2V | 24.3V | -24.3V | ⊕ -32.2V |
| VR306 | A | 58.7V | - | - | ⊖ 35.6V | 27.4V | -27.4V | ⊕ -35.6V |



*IC4 [POWER IC (C,SL,SRch)]

POWER IC (FRONT L,Rch)



IC3
IDLE CURR. (L) or (R)
+161V: 50mA MAX
+136V: 100mA MAX

IC4
IDLE CURR. (C) or (SL) or (SR)
+161V: 40mA MAX
+136V: 150mA MAX

DC VOLTAGE FOR IC4

| Pin No. | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
|-----------|--------|--------|--------|--------|----|----|----|----|--------|-------|----|----|--------|----|----|----|----|--------|----|
| KRF-V5020 | -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-V6020 | -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 | -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 |
| 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 |

VR-305 (X00-2880-10)

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

VR-306 (X00-2880-10)

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

VR-355 (X00-2880-10)

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

KRF-V6020 (X00-290X-XX)

| DESTINATION | UNIT No. | T1 | J1 | J3 | R1 | CN9 | W1,2 | W3 | W4 | P1 |
|----------------|----------|------|-------------|-------------|-------------|-----|------|-----|-----|----|
| COUNTRY | ABB | | | | | | 4 | | | |
| GENERAL MARKET | M5 | 0-22 | L07-2568-05 | E03-0149-05 | E03-0293-05 | NO | NO | NO | NO | NO |
| MALAYSIA | I5 | | | | | | | | | |
| AUSTRALIA | X6 | 0-72 | E03-0325-05 | E03-0361-05 | E03-0149-05 | NO | NO | YES | NO | NO |
| CHINA | C6 | 3-02 | L07-2569-05 | E03-0361-05 | E03-0149-05 | NO | NO | YES | NO | NO |
| EUROPE | E4 | 2-71 | L07-2569-05 | E03-0149-05 | E03-0293-05 | NO | YES | NO | YES | NO |

KRF-V6020E (X00-2902-71)

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

KRF-V6020W (X00-2902-71)

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

KRF-V7020 (X00-290X-XX)

| DESTINATION | UNIT No. | T1 | J1 | J3 | R1 | CN9 | W1,2 | W3 | W4 | P1 |
|-------------|----------|------|-------------|-------------|-------------|-----|------|----|-----|----|
| COUNTRY | ABB | | | | | | 4 | | | |
| U.K. | T7 | 0-52 | L07-2569-05 | E03-0310-05 | E03-0293-05 | NO | NO | NO | YES | NO |
| EUROPE | E7 | 2-71 | L07-2569-05 | E03-0149-05 | E03-0293-05 | NO | YES | NO | YES | NO |

KRF-V7020E (X00-2902-71)

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

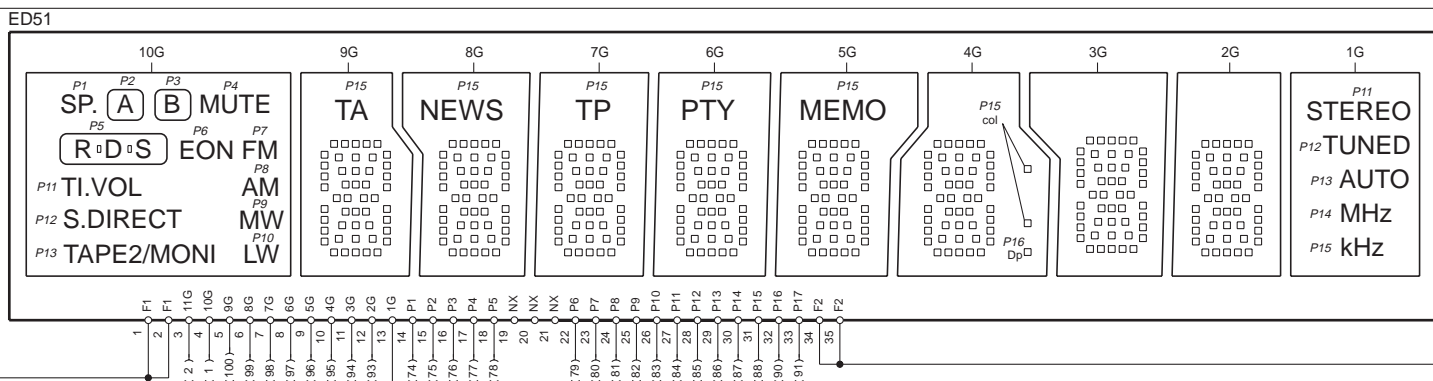
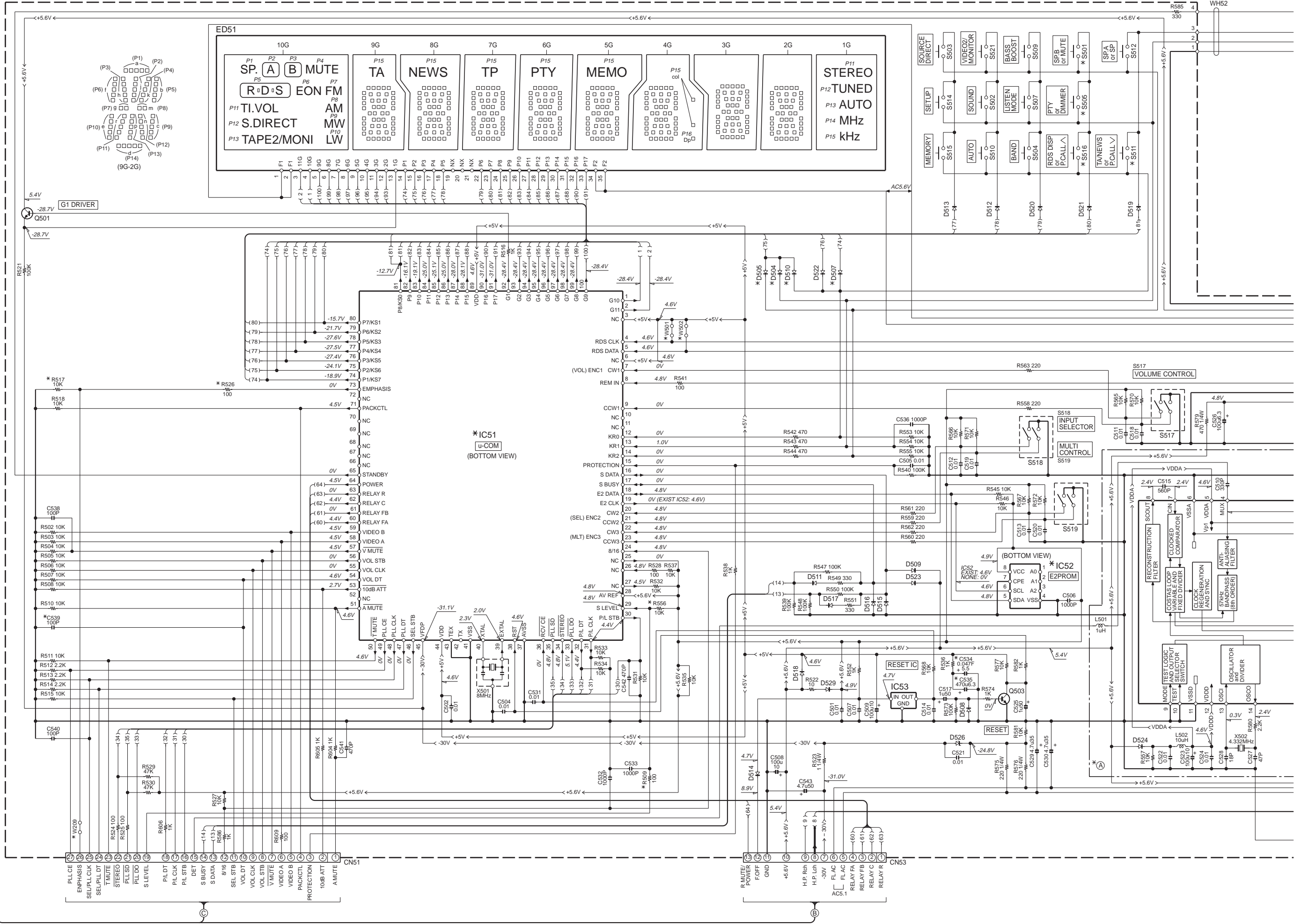
KRF-V7020W (X00-2902-71)

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

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.

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



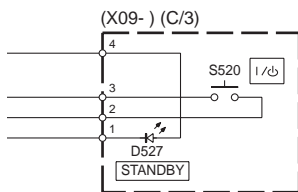
*IC51
u-COM
(BOTTOM VIEW)

*IC52
E2PROM
(BOTTOM VIEW)

RESET IC
IC53
IN OUT GND

X09-A/3
-CN9
2/3
B
X09-A/3
-CN8
2/3
C

1
2
3
4
5
6
7



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

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

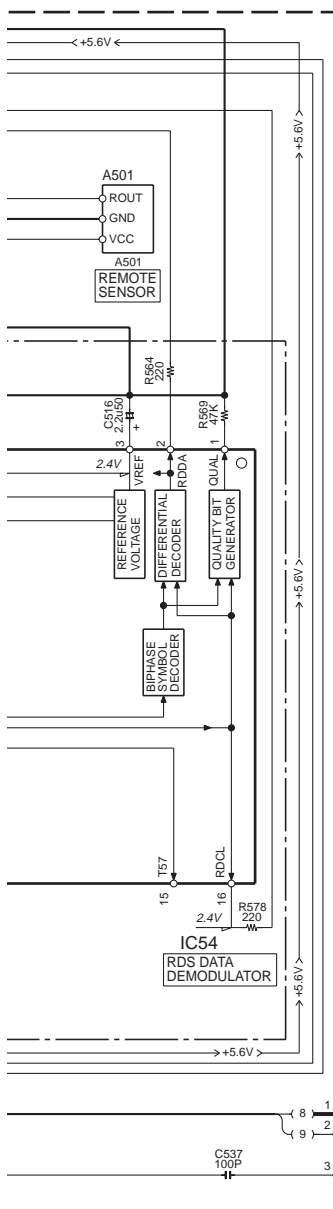
D504,505,507-524,529 : 1SS133 or HSS104A

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 | COUNTRY | ABB. | UNIT No. | Ⓐ | C534 | C535 | D504,505,507,510 | IC51 | IC52 | R509,517,526 | R556 | S501 | S505 | S511 | S516 | W209 | W501,502 | J2 |
|-------------|---------|------|----------|----|------|------|------------------|---------------|------|--------------|------|------|--------|-------------|-------------|------|----------|-------------|
| 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 | COUNTRY | ABB. | UNIT No. | Ⓐ | C534 | C535 | D504,505,507,510 | IC51 | IC52 | R509,517,526 | R556 | S501 | S505 | S511 | S516 | W209 | W501,502 | J2 |
|-------------|---------|------|----------|----|------|------|------------------|---------------|------|--------------|------|------|--------|-------------|-------------|------|----------|-------------|
| 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 | COUNTRY | ABB. | UNIT No. | Ⓐ | C534 | C535 | D504,505,507,510 | IC51 | IC52 | R509,517,526 | R556 | S501 | S505 | S511 | S516 | W209 | W501,502 | J2 |
|-------------|---------|------|----------|----|------|------|------------------|---------------|------|--------------|------|------|--------|-------------|-------------|------|----------|-------------|
| 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 | COUNTRY | ABB. | UNIT No. | Ⓐ | C534 | C535 | D504 | D505 | D507 | D510 | IC51 | IC52 | R509 | R517,526,556 | S501 | S505 | S511 | S516 | W209,501,502 | J2 | | |
|----------------|---------|------|----------|-----|------|------|------|------|------|------|------|------|------|--------------|------|------|------|--------|--------------|---------------|---------|----|
| GENERAL MARKET | M5 | | 0-21 | NO | | | YES | NO | | | | | | | NO | YES | MUTE | DIMMER | P.CALL ⌵ | P.CALL ⌶ | YES | |
| MALAYSIA | I5 | | | | | | | | | | | | | | | | | | | | | |
| AUSTRALIA | X5 | | | | YES | NO | | | | | | | | | | | | | | | | |
| FX | Y5 | | | | | | | | | | | | | | | | | | | | | |
| U.K. | T5 | | 2-70 | YES | | | NO | YES | | | | | | | YES | NO | | | PTY | (RDS) DISPLAY | TA/NEWS | NO |
| EUROPE | E1 | | | | | | | | | | | | | | | | | | | | | |

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

| DESTINATION | COUNTRY | ABB. | UNIT No. | Ⓐ | C534 | C535 | D504,507 | D505,510 | IC51 | IC52 | R509 | R517,526,556 | S501 | S505 | S511 | S516 | W209,501,502 | J2 |
|-------------|---------|------|----------|-----|------|------|----------|----------|---------------|------|------|--------------|------|------|---------------|---------|--------------|-------------|
| 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 | COUNTRY | ABB. | UNIT No. | Ⓐ | C534 | C535 | D504,507 | D505,510 | IC51 | IC52 | R509 | R517,526,556 | S501 | S505 | S511 | S516 | W209,501,502 | J2 |
|-------------|---------|------|----------|-----|------|------|----------|----------|---------------|------|------|--------------|------|------|---------------|---------|--------------|-------------|
| 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 | COUNTRY | ABB. | UNIT No. | Ⓐ | C534 | C535 | D504,507,510 | D505 | IC51 | IC52 | R509 | R517,526,556 | S501 | S505 | S511 | S516 | W209,501,502 | J2 |
|-------------|---------|------|----------|-----|------|------|--------------|------|---------------|------|------|--------------|------|------|---------------|---------|--------------|-------------|
| RUSSIA | O5 | | 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 | COUNTRY | ABB. | UNIT No. | Ⓐ | C534 | C535 | D504 | D505 | D507 | D510 | IC51 | IC52 | R509 | R517,526,556 | S501 | S505 | S511 | S516 | W209,501,502 | J2 | | |
|----------------|---------|------|----------|-----|------|------|------|------|------|------|------|------|------|--------------|------|------|------|--------|--------------|---------------|---------|----|
| GENERAL MARKET | M6 | | 0-22 | NO | | | YES | NO | | | | | | | NO | YES | SP B | DIMMER | P.CALL ⌵ | P.CALL ⌶ | YES | |
| MALAYSIA | I6 | | | | | | | | | | | | | | | | | | | | | |
| AUSTRALIA | X6 | | | | YES | NO | | | | | | | | | | | | | | | | |
| CHINA | C6 | | | | | | | | | | | | | | | | | | | | | |
| EUROPE | E4 | | 2-71 | YES | | | NO | YES | | | | | YES | NO | | | | | PTY | (RDS) DISPLAY | TA/NEWS | NO |

KRF-V6020E (X09-6242-71)

| DESTINATION | COUNTRY | ABB. | UNIT No. | Ⓐ | C534 | C535 | D504,507 | D505,510 | IC51 | IC52 | R509 | R517,526,556 | S501 | S505 | S511 | S516 | W209,501,502 | J2 |
|-------------|---------|------|----------|-----|------|------|----------|----------|---------------|------|------|--------------|------|------|---------------|---------|--------------|-------------|
| 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 | COUNTRY | ABB. | UNIT No. | Ⓐ | C534 | C535 | D504,507,510 | D505 | IC51 | IC52 | R509 | R517,526,556 | S501 | S505 | S511 | S516 | W209,501,502 | J2 |
|-------------|---------|------|----------|-----|------|------|--------------|------|---------------|------|------|--------------|------|------|---------------|---------|--------------|-------------|
| RUSSIA | O6 | | 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 | COUNTRY | ABB. | UNIT No. | Ⓐ | C534 | C535 | D504,507 | D505,510 | IC51 | IC52 | R509 | R517,526,556 | S501 | S505 | S511 | S516 | W209,501,502 | J2 |
|-------------|---------|------|----------|-----|------|------|----------|----------|---------------|------|------|--------------|------|------|---------------|---------|--------------|-------------|
| 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 | COUNTRY | ABB. | UNIT No. | Ⓐ | C534 | C535 | D504,507 | D505,510 | IC51 | IC52 | R509 | R517,526,556 | S501 | S505 | S511 | S516 | W209,501,502 | J2 |
|-------------|---------|------|----------|-----|------|------|----------|----------|---------------|------|------|--------------|------|------|---------------|---------|--------------|-------------|
| 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 | COUNTRY | ABB. | UNIT No. | Ⓐ | C534 | C535 | D504,507,510 | D505 | IC51 | IC52 | R509 | R517,526,556 | S501 | S505 | S511 | S516 | W209,501,502 | J2 |
|-------------|---------|------|----------|-----|------|------|--------------|------|---------------|------|------|--------------|------|------|---------------|---------|--------------|-------------|
| RUSSIA | O7 | | 3-81 | YES | YES | NO | YES | NO | CXP82852-136Q | YES | YES | NO | SP B | PTY | (RDS) DISPLAY | TA/NEWS | NO | E11-0127-05 |

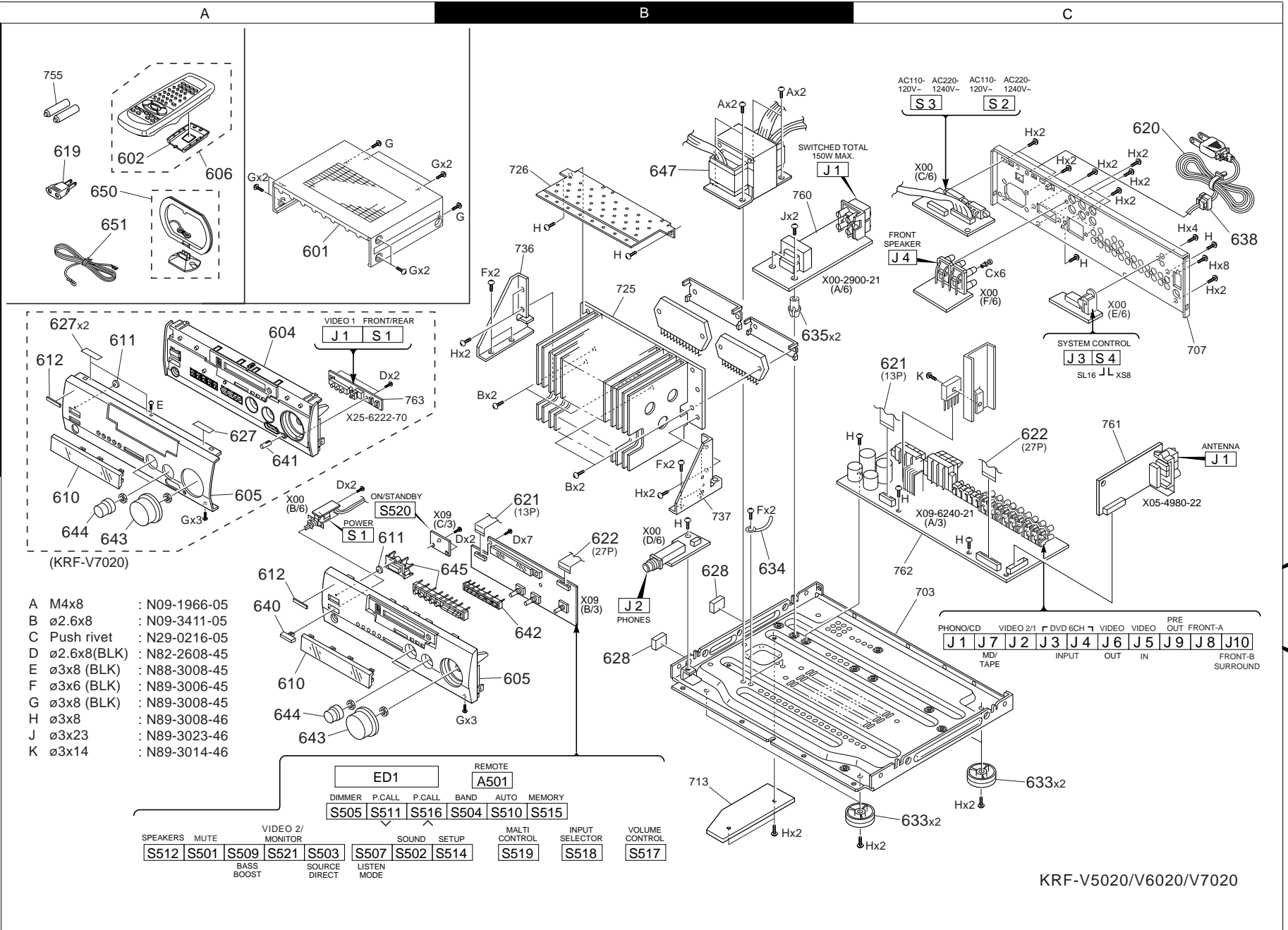
VR-305/306/355 (3/3)

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



KRF-V5020/V6020/V7020

* New Parts

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

①

| Ref. No | Add-ress | New Parts | Parts No. | Description | Desti-nation | Re-marks |
|--------------------------------|----------|-----------|-------------|--------------------------------|--------------|----------|
| 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 | |
| Δ 620 | 1C | | E30-2592-15 | AC POWER CORD | E7E8Q7 | |
| Δ 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 | | |
| Δ F1 | | | F05-3121-05 | FUSE (SEMKO) (250V T3.15AL) | | |
| Δ 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 | | |
| Δ 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 | | |

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

* New Parts

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②

| Ref. No | Add-ress | New Parts | Parts No. | Description | Desti-nation | Re-marks |
|--------------------------------|----------|-----------|-------------|-------------------------------|--------------|----------|
| 644 | 2A | | K29-7313-04 | KNOB D33 | | |
| Δ 647 | 1B | * | L07-2699-05 | POWER TRANSFORMER | E7E8T7 | |
| Δ 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 |
| Δ 619 | 1A | | E03-0115-05 | AC PLUG ADAPTER | | M6I6 |
| Δ 620 | 1C | | E30-2592-15 | AC POWER CORD | | E4E5Q6 |
| Δ 620 | 1C | | E30-2592-15 | AC POWER CORD | | M6I6 |
| Δ 620 | 1C | | E30-2717-05 | AC POWER CORD | | X6 |
| Δ 620 | 1C | | E30-2824-15 | AC POWER CORD | | V6 |

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PARTS LIST

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

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3

| Ref. No | Add-ress | New Parts | Parts No. | Description | Desti-nation | Re-marks |
|---------|----------|-----------|-------------|-------------------------------|--------------|----------|
| △ 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(SX20) (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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4

| Ref. No | Add-ress | New Parts | Parts No. | Description | Desti-nation | Re-marks |
|-----------------------------------------|----------|-----------|-------------|-------------------------------|--------------|----------|
| 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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PARTS LIST

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

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|---------|----------|-----------|-------------|-------------------------------|--------------|----------|
| Δ 619 | 1A | | E03-0115-05 | AC PLUG ADAPTER | M5I5 | |
| Δ 620 | 1C | | E30-2592-15 | AC POWER CORD | E1E2E3 | |
| Δ 620 | 1C | | E30-2592-15 | AC POWER CORD | Q5M5I5 | |
| Δ 620 | 1C | | E30-2605-05 | AC POWER CORD | Y5 | |
| Δ 620 | 1C | | E30-2717-05 | AC POWER CORD | X5 | |
| Δ 620 | 1C | | E30-2721-05 | AC POWER CORD | T5 | |
| Δ 621 | 2B, 1C | | E35-2017-05 | FLAT CABLE 13P | | |
| Δ 622 | 2B, 1C | | E35-2042-05 | FLAT CABLE 27P | | |
| Δ F1 | | | F05-3121-05 | FUSE (SEMKO) (250V T3.15AL) | | |
| Δ F2 | | | F05-3121-05 | FUSE (SEMKO) (250V T3.15AL) | Y5M5I5 | |
| Δ F3 | | | F05-2525-05 | FUSE (SEMKO) (250V T2.5AL) | E1E2E3 | |
| Δ 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 | | |
| Δ 635 | 1B | | J19-3752-14 | UNIT HOLDER | | |
| Δ 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 | |
| Δ 647 | 1B | | L07-2702-05 | POWER TRANSFORMER | Y5M5I5 | |
| Δ 647 | 1B | | L07-2703-05 | POWER TRANSFORMER | X5 | |
| Δ 647 | 1B | | L07-2704-05 | POWER TRANSFORMER | E1E2E3 | |
| Δ 647 | 1B | | L07-2704-05 | POWER TRANSFORMER | T5 | |
| Δ 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 | |
| Δ 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 | | |
| Δ 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 | | |
| Δ 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 J 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 | EQTMXC | |
| C42 | | | CC73FCH1H120J | CHIP C 12PF J | YI | |
| C42 | | | CC73FCH1H270J | CHIP C 27PF J | KPV | |
| C43 | | | CC73FCH1H100D | CHIP C 10PF D | EQTMXC | |
| 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) | EQTMXC | |
| J1 | | | E20-0321-05 | LOCK TERMINAL BOARD(2P,F) | YI | |
| J1 | | | E70-0052-05 | LOCK TERMINAL BOARD | EQTMXC | |
| 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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| Ref. No | Add-ress | New Parts | Parts No. | Description | Desti-nation | Re-marks |
|---------|----------|-----------|--------------|------------------------------|--------------|----------|
| 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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KRF-V5020/V6020/V7020/VR-305/306/355
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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 | MCXYIV | |
| 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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|----------------------------------------------------------------|----------|-----------|---------------|--------------------|--------------|----------|
| 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 | MCXYIV | |
| Q3, 4 | | | 2SD1819A(Q,R) | TRANSISTOR | MCXYIV | |
| 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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| Ref. No | Add-ress | New Parts | Parts No. | Description | Desti-nation | Re-marks |
|-----------|----------|-----------|---------------|---------------------|--------------|----------|
| 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 | | |
| C222, 223 | | | CC73FCH1H150J | CHIP C 15PF J | | |
| C222, 223 | | | CC73FCH1H150J | CHIP C 15PF J | | |
| 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 | | |
| C242-244 | | | CC73FCH1H150J | CHIP C 15PF J | | |
| C242-244 | | | CC73FCH1H150J | CHIP C 15PF J | | |
| 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 | | |
| C270-272 | | | CK73FB1H472K | CHIP C 4700PF K | | |
| C271 | | | CK73FB1H472K | CHIP C 4700PF K | | |
| C271 | | | CK73FB1H472K | CHIP C 4700PF K | | |
| C272 | | | CK73FB1H472K | CHIP C 4700PF K | | |
| C273, 274 | | | CK73FB1H472K | CHIP C 4700PF K | | |
| C275, 276 | | | CK73FB1H472K | CHIP C 4700PF K | | |
| C277-279 | | | CK45FB1H102K | CERAMIC 1000PF K | | |
| C280 | | | CK45FB1H102K | CERAMIC 1000PF K | | |
| C281 | | | CK45FF1H472Z | CERAMIC 4700PF Z | | |
| 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 | | |
| C302 | | | C91-1480-05 | MP 0.22UF 250WV | | |
| C304, 305 | | | C90-3832-05 | ELECTRO 4700UF 75WV | | |
| C304, 305 | | | C90-3832-05 | ELECTRO 4700UF 75WV | | |
| C304, 305 | | * | C90-3833-05 | ELECTRO 4700UF 63WV | | |
| C306, 307 | | | C90-3834-05 | ELECTRO 3300UF 42WV | | |
| C306, 307 | | | C90-3834-05 | ELECTRO 3300UF 42WV | | |
| C306, 307 | | * | C90-3835-05 | ELECTRO 3300UF 35WV | | |
| 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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PARTS LIST

KRF-V5020/V6020N/7020MR-305/306/355

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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 | EQT | |
| C510 | | | CC45FSL1H331J | CERAMIC 330PF J | | |
| 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 |
| W401-405 | | | E63-1016-05 | PHONO JACK | | KPV |
| | | | E29-1634-14 | LEAD PLATE | | |
| L1-5 | | | L39-1373-05 | PHASE COMPENSATION COIL | | EQT |
| 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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|-----------|----------|-----------|--------------|-----------------------|--------------|----------|
| 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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PARTS LIST

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

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| Ref. No | Add-ress | New Parts | Parts No. | Description | Desti-nation | Re-marks |
|-----------|----------|-----------|--------------|----------------------|--------------|----------|
| 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 | | |
| R261, 262 | | | RK73FB2A363J | CHIP R 36K J 1/10W | K2P2K3 | |
| R261, 262 | | | RK73FB2A363J | CHIP R 36K J 1/10W | P3 | |
| R263, 264 | | | RK73FB2A471J | CHIP R 470 J 1/10W | 56 | |
| 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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| Ref. No | Add-ress | New Parts | Parts No. | Description | Desti-nation | Re-marks |
|-----------|----------|-----------|--------------|---------------------|--------------|----------|
| 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 | MCXYIV | |
| R454 | | | RK73FB2A822J | CHIP R 8.2K J 1/10W | | |
| 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 | | |
| R582 | | | RK73FB2A102J | CHIP R 1.0K J 1/10W | EQT | |
| 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 | | |
| K3, 4 | | * | S76-0045-15 | MAGNETIC RELAY | 67 | |
| 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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| Ref. No | Address | New Parts | Parts No. | Description | Destination | Remarks |
|---------|---------|-----------|-------------|-------------|-------------|---------|
| 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 | 67 | |
| D20 | | | MA111 | DIODE | | |
| 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 | ETQ | |
| D32 | | | D4SBL20UF03 | DIODE | YMXICV | |
| D32 | | | D4SBL20UF03 | DIODE | | |
| 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 | MCXYIV | |
| D52 | | | MA111 | DIODE | | |
| 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 | YMXICV | |
| D510 | | | 1SS133 | DIODE | | |
| D510 | | | 1SS133 | DIODE | ETQ | |
| D510 | | | 1SS133 | DIODE | YMXICV | |
| 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 | | |
| Δ D530 | | | S1ZB20(4072) | DIODE | | |
| Δ D531 | | | D4SBL20UF03 | DIODE | KP | |
| D532, 533 | | | MA111 | DIODE | | |
| ED51 | | | 11-MT-120GK | INDICATOR TUBE | | |
| Δ IC1 | | | TA7815SB | ANALOGUE IC | | |
| Δ IC2 | | | TA79015SB | ANALOGUE IC | | |
| Δ IC3 | | * | STK411-220D | HYBRID IC | K2P2K2 | |
| Δ IC3 | | * | STK411-220D | HYBRID IC | P3 | |
| Δ IC3 | | * | STK411-220D | HYBRID IC | 56 | |
| Δ IC3 | | * | STK411-230D | HYBRID IC | K1P1 | |
| Δ IC3 | | * | STK411-230D | HYBRID IC | 7 | |
| Δ IC3 | | * | STK411-230K | HYBRID IC | K1P1 | |
| Δ IC4 | | * | STK410-020D | HYBRID IC | K2P2K3 | |
| Δ IC4 | | * | STK410-020D | HYBRID IC | P3 | |
| Δ IC4 | | * | STK410-020D | HYBRID IC | 56 | |
| Δ IC4 | | * | STK410-030D | HYBRID IC | K1P1 | |
| Δ 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 | YMXICV | |
| 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 Δ indicates safety critical components.

PARTS LIST

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

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 mentionnés dans le **Parts No.** ne sont pas fournis.Teile ohne **Parts No.** werden nicht geliefert.

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| Ref. No | Add-ress | New Parts | Parts No. | Description | Desti-nation | Re-marks |
|-----------------------------------------------|----------|-----------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-----------------------------|-------------------------------|
| Q1~11 Q12 Q13, 14 Q13, 14 Q13, 14 | | | 2SC2878(B) 2SC4213(B) 2SA1576A(R,S) 2SA1586(Y,GR) 2SA1611(M5,M6) | TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR | | |
| Q13, 14 Q15~19 Q20 Q21 Q22, 23 | | | 2SB1218A(Q,R) 2SC1845(F,E) DTC123JUA DTC123JUA DTC123JUA | TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR | 67 | |
| Q24, 25 Q26 Q29 Q30 Q30 | | | 2SC3722K(R,S) 2SA1255 2SC3944A(R,S) 2SA1123(S,T) 2SA1285A(F) | TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR | | |
| Q31 Q32~34 Q35 Q36, 37 Q40 | Δ | | 2SB1640 2SC3722K(R,S) 2SA1255 2SC3722K(R,S) 2SC4213(B) | TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR | | |
| Q41 Q41 Q42 Q501 Q501 | | | DTC113ZUA UN5219 2SC4213(B) 2SC4081(R,S) 2SC4116(Y,GR) | DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR | MCXYIV | |
| Q501 Q501 Q503 Q503 Q503 | | | 2SC4177(L5,L6) 2SD1819A(Q,R) 2SC4081(R,S) 2SC4116(Y,GR) 2SC4177(L5,L6) | TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR | | |
| Q503 TH1 | | | 2SD1819A(Q,R) PTH9C42BD471Q | TRANSISTOR POSITIVE RESISTOR | MCXYIV | |
| A501 | | | W02-2625-05 | OPTIC RECEIVING MODULE | | |
| SUB (X25-6222-70) | | | | | | |
| C1 C2 C3, 4 | | | CE04KW1C100M CC73FCH1H470J CC73FSL1H221J | ELECTRO CHIP C CHIP C | 10UF 47PF 220PF | 16WV J J |
| CN1 CN2 J1 | | * | E40-3247-05 E40-3249-05 E63-1072-05 | PIN ASSY PIN ASSY PHONO JACK | | |
| R1 R2, 3 R4, 5 W1 | | | RK73FB2A750J RK73FB2A102J RK73FB2A224J R92-0670-05 | CHIP R CHIP R CHIP R CHIP R | 75 1.0K 220K 0 OHM | J 1/10W J 1/10W J 1/10W |
| S1 | | * | S68-0113-05 | PUSH SWITCH | | |
| D1 | | | DA204U | DIODE | | |

L : Scandinavia

Y : PX(Far East, Hawaii)

Y : AAFES(Europe)

K : USA

T : Europe

X : Australia

P : Canada

E : Europe

Q : Russia

R : Mexico

G : Germany

H : Korea

C : China

V : China(Shanghai)

M : Other Areas

I : Malaysia

Δ indicates safety critical components.

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

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) |

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 |

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 |
| | D : 400 mm |
| | D : 390 mm |
| Weight (Net) | |
| KRF-V7020 | 9.2 kg |
| KRF-V6020 | 8.4 kg |
| KRF-V5020 | 8.2 kg |

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)

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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