

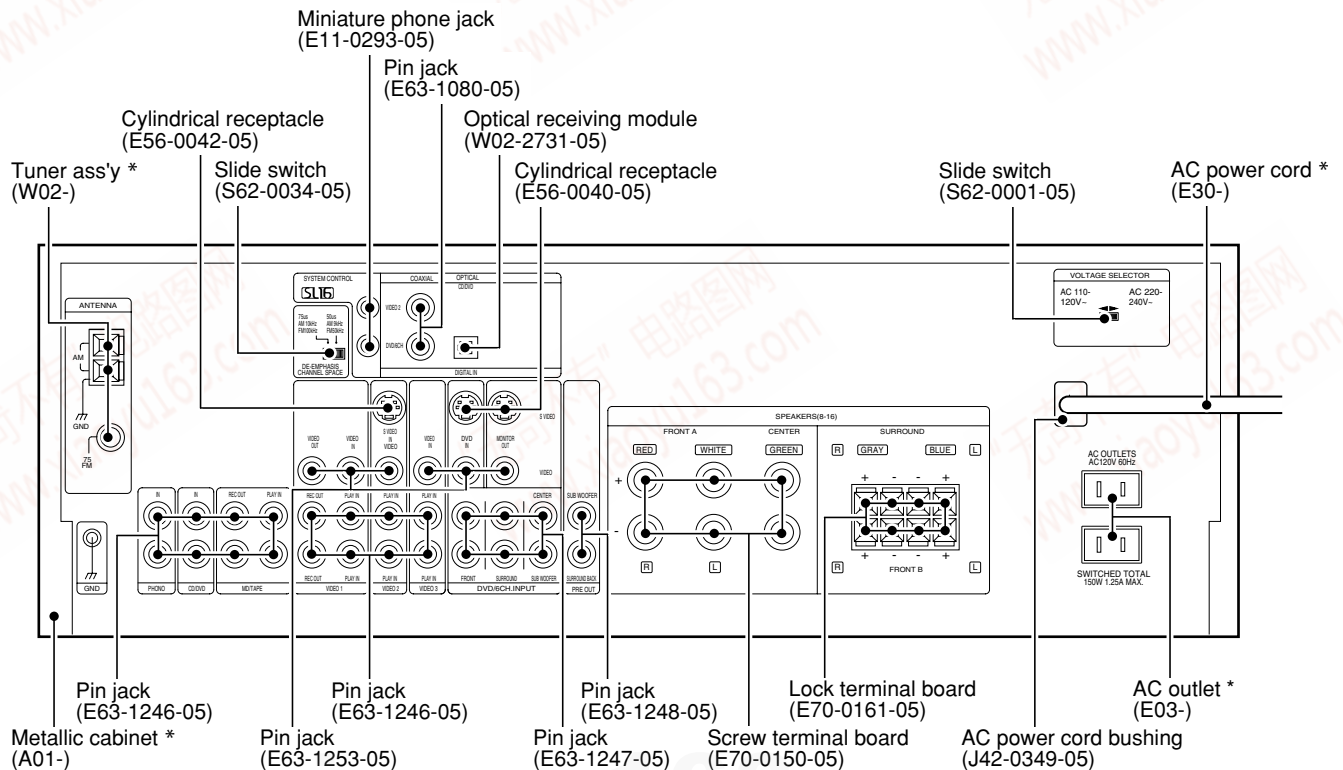
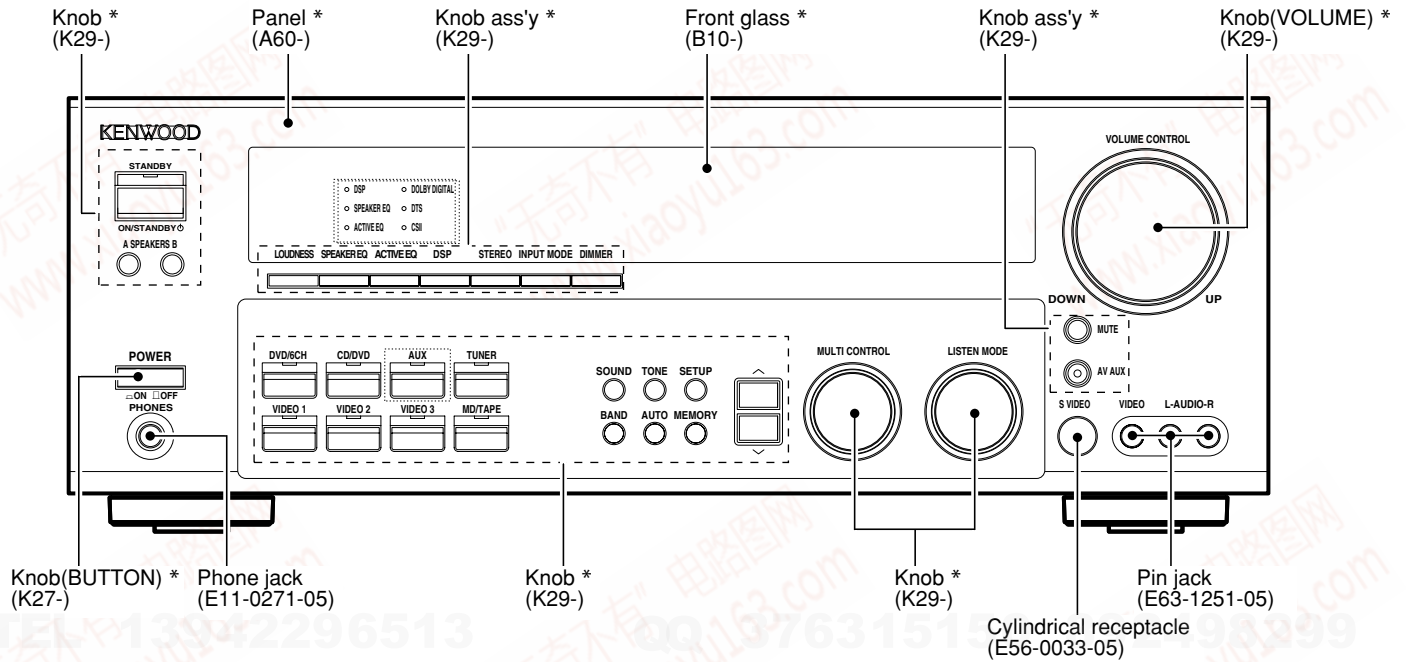
AUDIO-VIDEO SURROUND RECEIVER

KRF-V6060D/V6060D-S/V7060D/V7060D-S/V8060D
 KRF-V8060D-S/V8060D-G/X9060D/X9060D-S/X9060D-G
 VR-6050/6060/6070

SERVICE MANUAL

KENWOOD

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 B51-5791-00 (K/K) 3529



Illust. is VR-6050/KRF-V6060D.

* Refer to parts list on page 35.


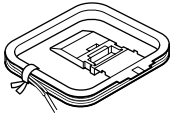
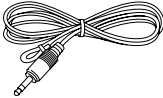
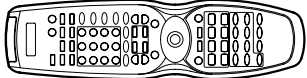









CONTENTS / ACCESSORIES / CAUTIONS

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Accessories

| | | | | | | | | |
|--|---|--|---|---------------|---------------|--|---|--|
| <p>FM indoor antenna (1) (T90-0877-05)</p>  | <p>AM loop antenna (1) (T90-0852-05)</p>  | <p>RF remote antenna (1) (For VR-6060/6070 only) (T90-0899-05)</p>  | <p>Remote control unit (1) Refer to the table on this page below.</p>  | | | | | |
| <p>Batteries (R6/AA) (2)</p>  | <p>AC Plug Adaptor (1)</p> <table border="0"> <tr> <td>(E03-0383-05)</td> <td>(E03-0382-05)</td> <td rowspan="2"> <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> </td> </tr> <tr> <td></td> <td></td> </tr> </table> | | | (E03-0383-05) | (E03-0382-05) | <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> |  |  |
| (E03-0383-05) | (E03-0382-05) | <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> | | | | | | |
|  |  | | | | | | | |

Model name vs Remote controller

| MODEL | Destinations | Remote controller | | |
|--------------|--------------|-------------------|------------|---------------|
| | | Parts number | Model name | Battery cover |
| VR-6050 | KP | A70-1555-05 | RC-R0727 | A09-1258-08 |
| KRF-V6060D | Y | A70-1555-05 | RC-R0727 | A09-1258-08 |
| KRF-V6060D | E | A70-1554-05 | RC-R0726 | A09-1258-08 |
| KRF-V6060D-S | TE | A70-1554-05 | RC-R0726 | A09-1258-08 |
| KRF-V6060D-S | MIXH | A70-1555-05 | RC-R0727 | A09-1258-08 |
| KRF-V7060D | E | A70-1554-05 | RC-R0726 | A09-1258-08 |
| KRF-V7060D-S | E | A70-1554-05 | RC-R0726 | A09-1258-08 |
| VR-6060 | KP | A70-1552-05 | RC-R0816 | A09-1258-08 |
| KRF-V8060D | E | A70-1554-05 | RC-R0726 | A09-1258-08 |
| KRF-V8060D-S | E | A70-1554-05 | RC-R0726 | A09-1258-08 |
| KRF-V8060D-S | X | A70-1553-05 | RC-R0725 | A09-1258-08 |
| KRF-V8060D-G | M | A70-1553-05 | RC-R0725 | A09-1258-08 |
| VR-6070 | KP | A70-1549-05 | RC-R0813 | A09-1258-08 |
| KRF-X9060D | E | A70-1551-05 | RC-R0815 | A09-1258-08 |
| KRF-X9060D | Y | A70-1550-05 | RC-R0814 | A09-1258-08 |
| KRF-X9060D-S | ET | A70-1551-05 | RC-R0815 | A09-1258-08 |
| KRF-X9060D-S | X | A70-1550-05 | RC-R0814 | A09-1258-08 |
| KRF-X9060D-G | MH | A70-1550-05 | RC-R0814 | A09-1258-08 |


Cautions

Resetting the Microcomputer

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.

- 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.

For the U.S.A. and Canada

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

For other countries

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

CIRCUIT DESCRIPTION

1. Model Type & TUNER Destination

1-1 Model Type

| Model Type | Model Type1 *(94Pin) | Model Type0 *(93Pin) |
|-------------------------------|-------------------------|-------------------------|
| VR-6070/KRF-X9060D | 0 | 0 |
| VR-6060/KRF-V8060D | 1 | 0 |
| VR-6050/KRF-V6060D/KRF-V7060D | 0 | 1 |

* Pin Number of Microprocessor

1-2 TUNER Destination

| Set Type | Type | Band | Receiving Frequency Range | Channel Space | IF | PLL |
|--------------|------|------|---------------------------|---------------|----------|-------|
| K/P | K1 | FM | 87.50MHz~108.0MHz | 100kHz | +10.7MHz | 25kHz |
| | | AM | 530kHz~1700kHz | 10kHz | +450kHz | 10kHz |
| Y/M/I | K2 | FM | 87.50MHz~108.0MHz | 100kHz | +10.7MHz | 25kHz |
| | | AM | 530kHz~1607kHz | 10kHz | +450kHz | 10kHz |
| Y/M/V/X H | E1 | FM | 87.50MHz~108.0MHz | 50kHz | +10.7MHz | 25kHz |
| | | AM | 531kHz~1602kHz | 9kHz | +450kHz | 9kHz |
| E/T | RDS | FM | 87.50MHz~108.0MHz | 50kHz | +10.7MHz | 25kHz |
| | | AM | 531kHz~1602kHz | 9kHz | +450kHz | 9kHz |

| Input Voltage(V) | Tuner Destination | R (kΩ) | Volt (V) |
|------------------|-------------------|--------|----------|
| 0 | K/P | Open | 0 |
| 1.6~2.0 | E/T | 27 | 1.79 |
| 2.1~2.5 | - | - | - |
| 2.6~3.0 | Y/M/I(M2) | 12 | 2.78 |
| 3.1~3.5 | - | - | - |
| 3.6~4.0 | Y/M/V/X(E1) | 4.7 | 3.81 |
| 4.1~4.5 | - | - | - |

For M type, K2/E1 are decided by CH SPACE
 CH SPACE = 1 →K2 TYPE
 CH SPACE = 0 →E1 TYPE

2. Tuner Preset Memory

| P.ch | K1 | K2 | E1/E3 | P.ch | K1 | K2 | E1/E3 |
|------|-----------|-----------|-----------|------|-----------|-----------|-----------|
| 1 | FM 98.3M | FM 98.3M | FM 98.3M | 21 | AM 530K | AM 530K | AM 531K |
| 2 | FM 108.0M | FM 108.0M | FM 108.0M | 22 | FM 87.5M | FM 87.5M | FM 87.5M |
| 3 | FM 89.1M | FM 89.1M | FM 89.1M | 23 | FM 87.5M | FM 87.5M | FM 87.5M |
| 4 | FM 87.5M | FM 87.5M | FM 87.5M | 24 | FM 87.5M | FM 87.5M | FM 87.5M |
| 5 | FM 90.0M | FM 90.0M | FM 90.0M | 25 | FM 87.5M | FM 87.5M | FM 87.5M |
| 6 | FM 87.5M | FM 87.5M | FM 87.5M | 26 | FM 87.5M | FM 87.5M | FM 87.5M |
| 7 | FM 87.5M | FM 87.5M | FM 87.5M | 27 | FM 87.5M | FM 87.5M | FM 87.5M |
| 8 | AM 1610K | FM 87.5M | AM 1503K | 28 | FM 87.5M | FM 87.5M | FM 87.5M |
| 9 | AM 1700K | AM 1610K | AM 1584K | 29 | FM 87.5M | FM 87.5M | FM 87.5M |
| 10 | AM 1050K | AM 1050K | AM 999K | 30 | FM 106.0M | FM 106.0M | FM 106.0M |
| 11 | AM 630K | AM 630K | AM 621K | 31 | FM 87.5M | FM 87.5M | FM 87.5M |
| 12 | AM 1440K | AM 1440K | AM 1350K | 32 | FM 87.5M | FM 87.5M | FM 87.5M |
| 13 | FM 106.0M | FM 106.0M | FM 106.0M | 33 | FM 87.5M | FM 87.5M | FM 87.5M |
| 14 | AM 530K | AM 530K | AM 531K | 34 | FM 87.5M | FM 87.5M | FM 87.5M |
| 15 | FM 87.5M | FM 87.5M | FM 87.5M | 35 | FM 87.5M | FM 87.5M | FM 87.5M |
| 16 | FM 98.0M | FM 98.0M | FM 98.0M | 36 | FM 87.5M | FM 87.5M | FM 87.5M |
| 17 | FM 98.5M | FM 98.5M | FM 98.5M | 37 | FM 87.5M | FM 87.5M | FM 87.5M |
| 18 | FM 87.5M | FM 87.5M | FM 87.5M | 38 | FM 87.5M | FM 87.5M | FM 87.5M |
| 19 | AM 990K | AM 990K | AM 945K | 39 | FM 108.0M | FM 108.0M | FM 108.0M |
| 20 | FM 97.4M | FM 97.4M | FM 97.4M | 40 | AM 1000K | AM 1000K | AM 945K |

CIRCUIT DESCRIPTION

3. Test Mode

3-1 Entering the Test Mode

- While holding down the "BAND" key, plugged in the power cord to AC power wall outlet.

3-2 Cancelling the Test Mode

- Initialized and cancel the test mode if plugged out the power code.

3-3 Contents of the Test Mode

3-3-1 TUNER mute on/off

- The key is functioning when selector is set to TUNER.

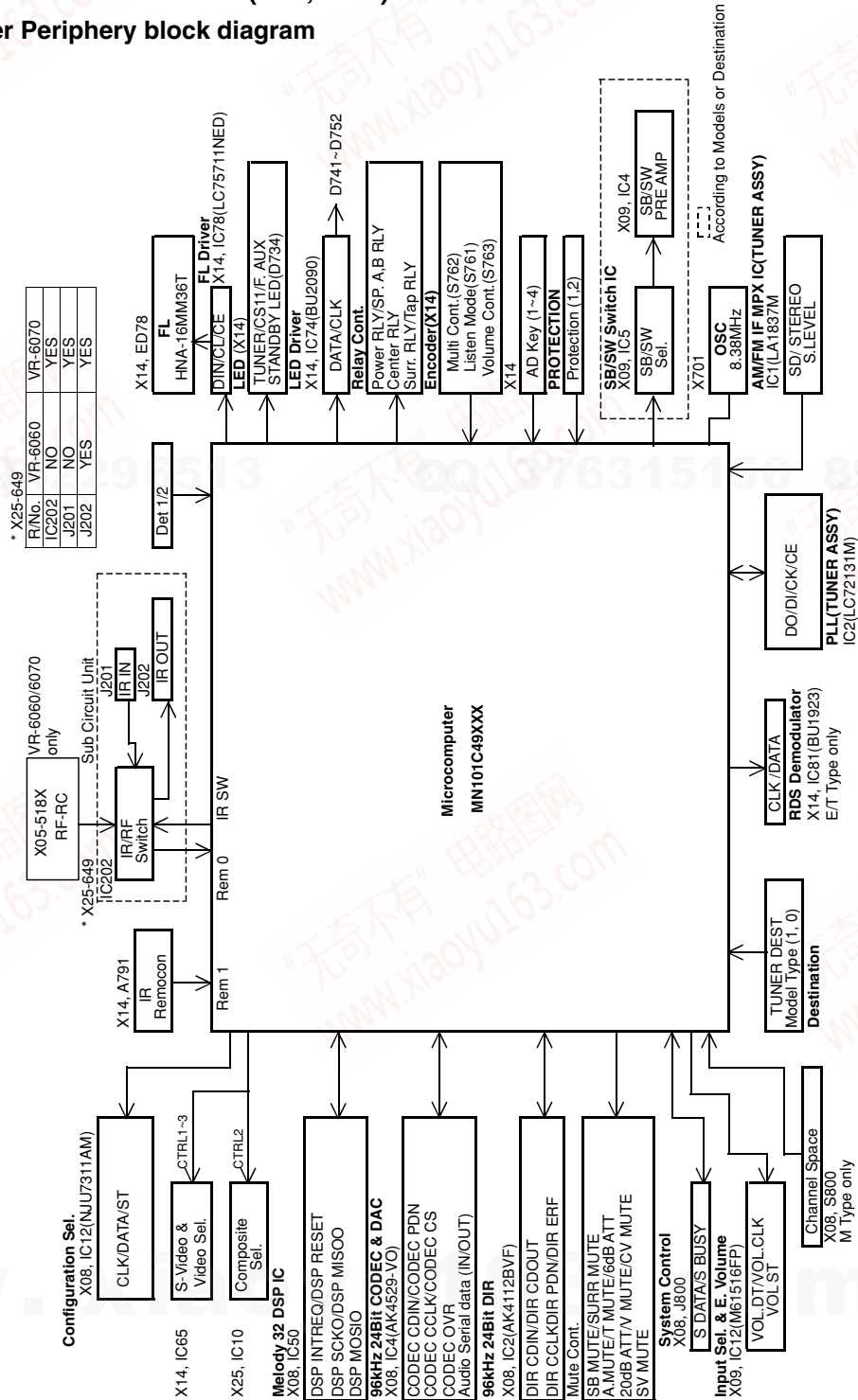
| Key | Function |
|------|-------------------|
| MUTE | TUNER mute on/off |

3-3-2 RF ON/RF OFF (VR-6060/6070 only)

| Key | Display | Function |
|-------------|---------|----------------|
| SPEAKER EQ. | RF ON | Set up RF ON. |
| | RF OFF | Set up RF OFF. |

4. Microcomputer : MN101C49XXX (X14, IC90)

4-1 Microcomputer Periphery block diagram



CIRCUIT DESCRIPTION

4-2Pin Description for Microcomputer : MN101C49XXX (X14, IC90)

| Pin No. | Pin Name | I/O | Pin Description |
|---------|-----------------|-----|---|
| 1 | VREF- | - | Connected to ground. |
| 2 | T DEST | I | Discrimination pin for tuner destination. |
| 3 | DET1 | I | Detection pin of output level for FL/FR. |
| 4 | DET2 | I | Detection pin of output level for SL/SR and Center. |
| 5 | S LEVEL | I | Input pin of FM S meter level. |
| 6~9 | AD KEY GET(1~4) | I | A/D key (1~4) input. |
| 10 | VREF+ | - | A/D reference voltage. |
| 11 | VDD | - | Power supply (+5V) for microcomputer. |
| 12 | OSC2 | O | Main clock output (8.388MHz). |
| 13 | OSC1 | I | Main clock input (8.388MHz). |
| 14 | VSS | - | Connected to be ground. |
| 15 | XI | - | Connected to be ground. |
| 16 | XO | - | Unused. |
| 17 | MMOD | - | Memory mode switch input pin (unused). |
| 18 | FL DIN | O | Transfer data output to FL driver. |
| 19 | FL CS | O | Chip enable output to FL driver. |
| 20 | FL CLK | O | Synchronism clock output to FL driver. |
| 21 | FL RESET | O | System reset signal output to FL driver. |
| 22 | IR SW | O | Switching pin for IR/RF. |
| 23 | RF CS | O | Chip select output to PLL of RF-RC demodulator. |
| 24 | RF DATA | O | Data output to PLL of RF-RC demodulator. |
| 25 | RF CLK | O | Clock output to PLL of RF-RC demodulator. |
| 26 | REM I | I | Remote control signal input 1(Front panel). |
| 27 | REM 0 | I | Remote control signal input 1(Rear panel). |
| 28 | DIR ERF | I | Detection pin for DIR ERROR signal. |
| 29 | DSP INTREQ | I | Detection pin for DSP INTREQ. |
| 30 | CE2/RDS CLK | I | Clock input of RDS demodulator IC. |
| 31 | CE1 | I | Detection pin for DSP INTREQ. |
| 32 | N.C. | - | Unused. |
| 33 | RESET | I | Reset signal input for microcomputer. |
| 34 | S BUSY | I/O | Serial busy signal input/output. |
| 35 | S DATA | I/O | Serial data signal input/output. |
| 36 | DSP RESET | O | Reset signal output to DSP. |
| 37 | CODEC OVR | I | Analog overflow detection pin. |
| 38 | CODEC PDN | O | Power down mode pin for CDDEC. |
| 39 | DIR PDN | O | Power down mode pin for DIR. |
| 40 | AK CS | O | Chip select output to DIR (X08, IC2). |
| 41 | N.C. | - | Unused. |
| 42 | AK CDTI | O | Control data output to DIR (X08, IC2). |
| 43 | DIR CDTO | I | Control data input from DAC (X08, IC4). |
| 44 | AK CLK | O | Clock output to DIR (X08, IC2). |
| 45 | DSP MOSIO | O | Data output pin to DSP (X08, IC50). |
| 46 | DSP MISOO | I | Data input pin from DSP (X08, IC50). |
| 47 | DSP SCKO | O | Clock output pin to DSP (X08, IC50). |
| 48 | SEL. ST | O | Strobe 1 output to selector IC (X08, IC12). |
| 49 | SEL. CLK | O | Clock output to selector IC (X08, IC12). |
| 50 | SEL. DATA | O | Data output to selector IC (X08, IC12). |
| 51~53 | V. CTL 1~3 | O | Video switch control. |
| 54 | SV. MUTE | O | Mute control to S-video & video selector (X14, IC65). |
| 55 | CV. MUTE | O | Mute control to video selector IC (X25, IC102). |
| 56 | STEREO | I | Stereo signal input from IC1(TUNER ASSY). |
| 57 | SD | I | Synchronized signal detection input. |
| 58 | T MUTE | O | Mute signal output for TUNER. |
| 59 | PLL DO | I | Data input from PLL IC (TUNER ASSY). |

CIRCUIT DESCRIPTION

| Pin No. | Pin Name | I/O | Pin Description |
|---------|------------------|-----|---|
| 60 | PLL CLK | O | Clock output to PLL IC (TUNER ASSY). |
| 61 | PLL DIN | O | Data output to PLL IC (TUNER ASSY). |
| 62 | PLL CE | O | Chip enable output to PLL IC (TUNER ASSY). |
| 63 | SURR.MUTE | I | Mute control for surround. |
| 64 | SB PREMUTE | O | Mute control for SB. |
| 65 | SP. A RLY | O | Relay control for A speaker. |
| 66 | C RLY | O | Relay control for center speaker. |
| 67 | SURR.RLY | O | Relay control for surround speaker. |
| 68 | SP. B RLY | O | Relay control for B speaker. |
| 69 | SB SW SELECT | O | Selection port for SB and SW. |
| 70 | VOL SEL. ST | O | Strobe output to E. volume IC (X09, IC2). |
| 71 | VOL. SEL DATA | O | Data output to E. volume IC (X09, IC2). |
| 72 | VOL. SEL CLK | O | Clock output to E. volume IC (X09, IC2). |
| 73 | TAP RLY | O | Switching port for transformer tap. |
| 74 | LIMITER | O | Power control for A class. |
| 75 | DSP CS | I | CS input port from DSP. |
| 76 | CH SPACE/RDS DIN | I | Data input of RDS demodulator IC. |
| 77 | A. MUTE | O | Audio mute control. |
| 78 | PROT2 | I | Protection signal detection pin for over voltage. |
| 79 | PROT1 | I | Detection pin of protection for shorted supply voltage. |
| 80 | POWER RLY | O | Control port of power relay. |
| 81 | LED DATA | O | Data output to led driver (X14, IC74). |
| 82 | LED CLK | O | Clock output to led driver (X14, IC74). |
| 83 | F AUX LED | O | LED (F.AUX) control port. |
| 84 | TUNER LED | O | LED (TUNER) control port. |
| 85 | STANDBY LED | O | LED (STANDBY) control port. |
| 86 | CS II LED | O | LED (CS II) control port. |
| 87 | MULTI ENC A | I | Encoder (Multi control) upward detection. |
| 88 | MULTI ENC B | I | Encoder (Multi control) downward detection. |
| 89 | LISTEN ENC A | I | Encoder (LISTEN MODE) upward detection. |
| 90 | LISTEN ENC B | I | Encoder (LISTEN MODE) downward detection. |
| 91 | VOL. ENC A | I | Encoder (Vol. Cont.) clockwise detection. |
| 92 | VOL. ENC B | I | Encoder (Vol. Cont.) counterclockwise detection. |
| 93 | MODEL TYPE 0 | I | Discrimination port for model type. |
| 94 | MODEL TYPE 1 | I | Discrimination port for model type. |
| 95 | DAVSS | - | Connected to be ground. |
| 96,97 | N.C. | - | Unused. |
| 98 | 20dB ATT. | O | 20dB attenuator control. |
| 99 | 6dB ATT. | O | 6dB attenuator control. |
| 100 | DAVDD | - | +5V power supply. |

5. Key Matrix

| Input Voltage (V) | AD Key Get 1 (Pin 6) | AD Key Get 2 (Pin 7) | AD Key Get 3 (Pin 8) | AD Key Get 4 (Pin9) | R (kΩ) | Volt (V) |
|-------------------|----------------------|----------------------|----------------------|---------------------|--------|----------|
| 0.0 to 1.0 | Key Off | | | | | |
| 1.1 to 1.5 | DVD/6CH | LOUDNESS or THX | SOUND | - | 43 | 1.29 |
| 1.6 to 2.0 | CD/DVD | SP EQ | TONE | STANDBY | 27 | 1.79 |
| 2.1 to 2.5 | PHONO | ACTIVE EQ | SET UP | - | 18 | 2.27 |
| 2.6 to 3.0 | TUNER | DSP | BAND | SPA | 12 | 2.78 |
| 3.1 to 3.5 | VIDEO 1 | STEREO | AUTO | SPB | 7.5 | 3.33 |
| 3.6 to 4.0 | VIDEO 2 | INPUT MODE | MEMORY | - | 4.7 | 3.81 |
| 4.1 to 4.5 | VIDEO 3 | DIMMER | UP | MUTE | 2.4 | 4.31 |
| 4.6 to 5.0 | MD/TAPE | - | DOWN | AV AUX | 0.62 | 4.80 |

CIRCUIT DESCRIPTION

6. Pin description of ICs

6-1 PLL Frequency Synthesizer LSI : (X05, IC3) VR-6060/6070 (K/P) Type Only

| Pin No. | Pin Name | I/O | Pin Description |
|---------|----------|-----|---|
| 1 | XIN | I | Reference signal input pin (X'tal oscillation pin). |
| 2 | CL | I | Data input pin. |
| 3 | DI | I | Data input pin. |
| 4 | CE | I | Data input pin. |
| 5 | VCCR | - | ECL block power supply pin. |
| 6 | PI | I | Comparison signal input pin. |
| 7 | GND R | - | ECL block GND pin. |
| 8 | TEST | - | GND |
| 9 | CP | O | Built-in charge pump output pin. |
| 10 | PDP | O | Phase comparator output for an external charge pump. (Connected to GND) |
| 11 | PDN | O | Unused. |
| 12 | GND D | - | GND pin for circuits except the ECL block. |
| 13 | VCC D | - | Power supply pin for circuits except the ECL block. |
| 14 | PE | O | Phase error output pin for phase comparator (Unused). |
| 15 | OUT | O | Output port pin for switching external SW (GND). |
| 16 | XOUT | O | Output pin for X'tal oscillation. |

6-2 IF MIXER : TK14583V (X05, IC4) VR-6060/6070 (K/P) Type Only

| Pin No. | Pin Name | I/O | Pin Description |
|---------|----------|-----|--|
| 1 | OSCB | - | Colpitts oscillation circuit. |
| 2 | OSCE | - | Colpitts oscillation circuit. (Unused) |
| 3 | MVCC | - | Supply power for mixer section. |
| 4 | MOUT | O | Mixer output port. |
| 5 | DECPL1 | - | Bypass capacitor connection for limiter amplifier. |
| 6 | IF IN | I | Input port of limiter amplifier. |
| 7 | DECPL2 | - | Bypass capacitor connection for limiter amplifier. |
| 8 | CGND | - | Data comparator ground. |
| 9 | COUT | O | Data comparator output. |
| 10 | CIN- | I | Data comparator input. |
| 11 | CIN+ | I | Data comparator input. |
| 12 | AOUT | O | Ope. Amplifier output. |
| 13 | AIN- | I | Ope. Amplifier input. |
| 14 | AIN+ | I | Ope. Amplifier input. |
| 15 | DOUT | - | Detector output. (Unused) |
| 16 | DIN | I | Detector input. |
| 17 | IFOUT | - | IF limiter output. (Unused) |
| 18 | RSSI | O | RSSI output port. |
| 19 | IGND | - | IF section ground. |
| 20 | IVCC | - | Supply power for IF section. |
| 21 | PWSAVE | - | Connected to power supply. |
| 22 | MGND | - | Mixer section ground. |
| 23 | MIN1 | I | Mixer input port. |
| 24 | MIN2 | I | Mixer input port. |

CIRCUIT DESCRIPTION

6-3 96kHz 24Bit DIR : AK4112BVF (X08, IC2)

| Pin No. | Pin Name | I/O | Pin Description |
|---------|----------|-----|---|
| 1 | DVDD | - | Digital power supply pin. (3.3V) |
| 2 | DVSS | - | Digital ground pin. |
| 3 | TVDD | - | Input buffer power supply pin. (5.0V) |
| 4 | TX | O | Transmit channel (through data) output pin in serial mode. |
| 5 | XTI | I | X'tal input pin. |
| 6 | XTO | O | X'tal output pin. (Open) |
| 7 | PDN | I | Power down mode pin. When "L", the AK4112B is powered-down and reset. |
| 8 | R | - | External resistor pin. |
| 9 | AVDD | - | Analog power supply pin. |
| 10 | AVSS | - | Analog ground pin. |
| 11 | RX1 | I | Receiver channel 1 This channel is selected in parallel mode or default of serial mode. |
| 12 | RX2 | I | Receiver channel 2 in serial mode. |
| 13 | RX3 | I | Receiver channel 3 in serial mode. |
| 14 | RX4 | I | Receiver channel 4 in serial mode. |
| 15 | AUTO | O | Non PCM detect pin. "L" : No detect, "H" : Detect (Open) |
| 16 | P/S | I | Parallel/Serial select pin. "L" : Serial mode, "H" : Parallel mode (Analog ground) |
| 17 | FS96 | O | 96kHz sampling detect pin. (RX Mode) "H" : fs=88.2kHz or more, "L" fs=54kHz or less. (X'tal Mode) "H" : XFS96=1, "L" : XFS96=0. |
| 18 | ERF | O | Unlock & Parity Error output pin. "L" : No error, "H" : Error |
| 19 | LRCK | I/O | Output channel clock pin. |
| 20 | SDTO | O | Audio serial data output pin. |
| 21 | BICK | I/O | Audio serial data clock pin. |
| 22 | DAUX | I | Auxiliary audio data input pin. (Analog ground) |
| 23 | MCK02 | O | Master clock #2 output pin. (Open) |
| 24 | MCK01 | O | Master clock #1 output pin. |
| 25 | CSN | I | Chip select pin in serial mode. |
| 26 | CCLK | I | Control data clock pin in serial mode. |
| 27 | CDTI | I | Control data input pin in serial mode. |
| 28 | CDTO | O | Control data output pin in serial mode. |

6-4 96kHz 24Bit CODEC & DAC : AK4529-VQ (X08, IC4)

| Pin No. | Pin Name | I/O | Pin Description |
|---------|------------|-----|--|
| 1 | SDOS | I | SDTO Source Select Pin (unused) |
| 2 | I2C | I | Control Mode Select Pin (unused) |
| 3 | SMUTE | I | Soft Mute Pin (Unused) |
| 4 | BICK | I | Audio Serial Data Clock Pin |
| 5 | LRCK | I | Input Channel Clock Pin |
| 6~8 | SDTI (1~3) | I | DAC(1~3) Audio Serial Data Input Pin |
| 9 | SDTO | O | Audio Serial Data Output Pin |
| 10 | DAUX | I | AUX Audio Serial Data Input Pin (GND) |
| 11 | DFS | I | Double Speed Sampling Mode Pin (GND) |
| 12 | SDTI4 | I | DAC4 Audio Serial Data Input Pin (GND) |
| 13 | DZFE | I | Zero Input Detect Enable Pin (GND) |
| 14 | TVDD | - | Output Buffer Power Supply Pin (+3.3V) |
| 15 | DVDD | - | Digital Power Supply Pin (+5.0V) |
| 16 | DVSS | - | Digital Ground Pin |
| 17 | PDN | - | Power Down & Reset Pin |
| 18 | TST | - | Test Pin (GND) |
| 19 | CAD1 | - | Chip Address 1 Pin (GND) |
| 20 | CAD0 | - | Chip Address 0 Pin |
| 21 | LOUT4 | O | DAC4 Center Channel Output Pin |
| 22 | ROUT4 | O | DAC4 SW Channel Output Pin |
| 23 | LOUT3 | O | DAC3 SBL Channel Output Pin |
| 24 | ROUT3 | O | DAC3 SBR Channel Output Pin |

CIRCUIT DESCRIPTION

| Pin No. | Pin Name | I/O | Pin Description |
|---------|----------|-----|---|
| 25 | LOUT2 | O | DAC2 SL Channel Output Pin |
| 26 | ROUT2 | O | DAC2 SR Channel Output Pin |
| 27 | LOUT1 | O | DAC1 FL Channel Output Pin |
| 28 | ROUT1 | O | DAC1 FR Channel Output Pin |
| 29 | NC1 | - | Unused |
| 30 | NC2 | - | Unused |
| 31 | LIN | I | Lch Analog Input Pin |
| 32 | RIN | I | Rch Analog Input Pin |
| 33 | OVR | O | Analog Input Overflow Detect Pin |
| 34 | VCOM | O | Common Voltage Output Pin |
| 35 | VREFH | I | Positive Voltage Reference Input Pin |
| 36 | AVDD | - | Analog Power Supply Pin (+5.0V) |
| 37 | AVSS | - | Analog Ground Pin |
| 38 | DZF1 | - | Zero Input Detect 1 Pin (unused) |
| 39 | MCLK | I | Master Clock Input Pin |
| 40 | P/S | I | Parallel/Serial Select Pin (GND) |
| 41 | CSN | I | Chip Select Pin in 3-wire Serial Control Mode |
| 42 | CCLK | I | Control Data Clock Pin in Serial Control Mode |
| 43 | CDTI | I | Control Data Input Pin in Serial Control Mode |
| 44 | TDM | I | TDM I/F Format Mode Pin (GND) |

6-5 Input Selector & E. Volume : M61516FP (X09, IC2)

| Pin No. | Pin Name | I/O | Pin Description |
|-------------|--------------------|-----|--|
| 1 | L V3 | I | Input pin of L channel VIDEO 3. |
| 2 | L 6CH | I | Input pin of FL channel DVD/6 channel. |
| 3 | L REC | I | Input pin of L channel REC. |
| 4 | L MD REC | O | Output pin of L channel MD REC. |
| 5 | L V1 REC | O | Output pin of L channel VIDEO1 REC. |
| 6 | N.C. | - | Unused. |
| 7 | N.C. | - | Unused. |
| 8,22,52,53 | VOL GND(1~4) | - | Analog ground for 8channel volume. |
| 9 | FL IN | I | Input pin of FL channel. |
| 10 | SL IN | I | Input pin of SL channel. |
| 11 | SBL IN | I | Input pin of SBL channel. |
| 12 | C IN | I | Input pin of C channel. |
| 13 | SW IN | I | Input pin of SW channel. |
| 14 | SBR IN | I | Input pin of SBR channel. |
| 15 | SR IN | I | Input pin of SR channel. |
| 16 | FR IN | I | Input pin of FR channel. |
| 17,18,42,43 | BASS(L1,L2,R1,R2) | - | Frequency characteristic setting pin of the tone control (Bass). |
| 19,41 | TRE(L,R) | - | Frequency characteristic setting pin of the tone control (Treble). |
| 20,40 | L T/RT OUT | O | Output pin of tone. |
| 21 | FL VIN | I | Input pin of FL channel volume. |
| 23 | TIM1 | - | Timer setting pin for Zero-Cross detector. |
| 24 | DVDD | - | Power supply to internal logic circuit. |
| 25 | LATCH | I | Latch input from CPU. |
| 26 | DATA | I | Data input from CPU. |
| 27 | CLOCK | I | Clock input from CPU. |
| 28 | DGND | - | Ground of internal logic circuit. |
| 29 | AVCC | - | Positive power supply to internal analog circuit. |
| 30 | OUT GND | - | Ground for output block. |
| 31 | FL OUT | O | Output pin of FL channel. |
| 32 | SL OUT | O | Output pin of SL channel. |
| 30 | OUT GND | - | Ground for output block. |
| 31 | FL OUT | O | Output pin of FL channel. |

CIRCUIT DESCRIPTION

| Pin No. | Pin Name | I/O | Pin Description |
|---------|------------|-----|--|
| 32 | SL OUT | O | Output pin of SL channel. |
| 33 | SBL OUT | O | Output pin of SBL channel. |
| 34 | C OUT | O | Output pin of C channel. |
| 35 | SW OUT | O | Output pin of SW channel. |
| 36 | SBR OUT | O | Output pin of SBR channel. |
| 37 | SR OUT | O | Output pin of SR channel. |
| 38 | FR OUT | O | Output pin of FR channel. |
| 39 | FR VIN | I | Input pin of FR channel volume. |
| 44 | DVD/6CH FR | I | Input pin of FR channel DVD/6 channel. |
| 45 | DVD/6CH SR | I | Input pin of SR channel DVD/6 channel. |
| 46 | N.C. | - | Unused. |
| 47 | DVD/6CH SW | I | Input pin of SW channel DVD/6 channel. |
| 48 | DVD/6CH C | I | Input pin of C channel DVD/6 channel. |
| 49 | N.C. | - | Unused. |
| 50 | DVD/6CH SL | I | Input pin of SL channel DVD/6 channel. |
| 51 | DVD/6CH FL | I | Input pin of FL channel DVD/6 channel. |
| 54 | LCH | O | Output pin of L channel balance (+). |
| 55 | L LOUDNESS | - | Frequency characteristic setting pin of the loudness part and output pin of L channel balance (-). |
| 56 | IN GND | - | Ground for input block. |
| 57 | R LOUDNESS | - | Frequency characteristic setting pin of the loudness part and output pin of R channel balance (-). |
| 58 | RCH | O | Output pin of R channel balance (+). |
| 59 | N.C. | - | Unused. |
| 60 | N.C. | - | Unused. |
| 61 | R V1 REC | O | Output pin of R channel VIDEO1 REC. |
| 62 | R MD REC | O | Output pin of R channel MD REC. |
| 63 | R REC | I | Input pin of R channel REC. |
| 64 | R 6CH | I | Input pin of FR channel DVD/6 channel. |
| 65 | R V3 | I | Input pin of R channel VIDEO 3. |
| 66 | R V2 | I | Input pin of R channel VIDEO 2. |
| 67 | R V1 | I | Input pin of R channel VIDEO 1. |
| 68 | R MD/TAPE | I | Input pin of R channel MD/TAPE. |
| 69 | R AUX | I | Input pin of R channel AUX. |
| 70 | R TUNER | I | Input pin of R channel TUNER. |
| 71 | R PHONO | I | Input pin of R channel PHONO. |
| 72 | R CD/DVD | I | Input pin of R ch CD/DVD. |
| 73 | AVEE | - | Negative power supply to internal analog circuit. |
| 74 | L CD/DVD | I | Input pin of L channel CD/DVD. |
| 75 | L PHONO | I | Input pin of L channel PHONO. |
| 76 | L TUNER | I | Input pin of L channel TUNER. |
| 77 | L AUX | I | Input pin of L channel AUX . |
| 78 | L MD/TAPE | I | Input pin of L ch MD/TAPE. |
| 79 | L V1 | I | Input pin of L channel VIDEO 1. |
| 80 | L V2 | I | Input pin of L channel VIDEO 2. |

CIRCUIT DESCRIPTION

6-6 S-Video & Video Selector : LA79510M (X14, IC65)

| Pin No. | Pin Name | I/O | Pin Description |
|---------|-----------|-----|---|
| 2 | VC1IN | I | Input of C signal for S-video terminal. |
| 4 | NFBCG | - | Negative feed-back pin of amplifier (unused). |
| 6 | VC2IN | I | Input of C signal for DVD. |
| 8 | VC3IN | I | Input of C signal for video 3. |
| 10 | VC4IN | I | Input of C signal for video 2. |
| 12 | VC5IN | I | Input of C signal for video 1. |
| 14 | VC6IN | I | Unused. |
| 15 | GND | - | GND |
| 16 | MUTE | - | Mute time constant changing pin. |
| 17~19 | MUTE(3~1) | - | Changeover pin of mute. |
| 20 | CTL 3 | I | Video switch control 3 input. |
| 21 | CTL 2 | I | Video switch control 2 input. |
| 22 | CTL 1 | I | Video switch control 1 input. |
| 23 | VCOUT 2 | O | Output of C signal for DVD. |
| 24 | VC OUT1 | O | Output of C signal for video 1. |
| 25 | VCC- | - | Negative power supply. |
| 26 | VBOUT 2 | O | Output of Y signal for DVD. |
| 27 | VBOUT 1 | O | Output of Y signal for video 1. |
| 28 | VCCDR- | - | Negative power supply. |
| 29 | VAOUT 2 | O | Monitor output of ROOM B. |
| 30 | VAOUT 1 | O | REC output of video 1. |
| 33 | VCCDR+ | - | Positive power supply. |
| 35 | VA6IN | I | Unused. |
| 37 | NFBAG | - | Negative feed-back pin of amplifier (unused). |
| 39 | VA5 IN | I | Input of video signal for video 1. |
| 41 | VA4 IN | I | Input of video signal for video 2. |
| 43 | VA3 IN | I | Input of video signal for video 3. |
| 45 | VA2 IN | I | Input of DVD signal. |
| 47 | VAIN | I | Input of video signal for composite. |
| 50 | VB1IN | I | Input of Y signal for S-video terminal. |
| 52 | NFBBG | - | Negative feed-back pin of amplifier (unused). |
| 54 | VB2 IN | I | Input of Y signal for DVD. |
| 56 | VB3 IN | I | Input of Y signal for video 3. |
| 58 | VB4 IN | I | Input of Y signal for video 2. |
| 60 | VB5 IN | I | Input of Y signal for video 1. |
| 62 | VB6 IN | I | Unused. |
| 63 | VCC+ | - | Positive power supply. |

6-7 Serial in / Parallel out Driver : BU2090F (X14, IC74)

| Pin No. | Pin Name | I/O | Pin Description | | | | | | |
|------------|------------|-----|---|------------|---|---|------------|----|-----|
| 1 | VSS | - | GND | | | | | | |
| 2 | DATA | I | Serial data input. | | | | | | |
| 3 | CLOCK | I | Shift clock of data. | | | | | | |
| 4~15 | OUT1~OUT12 | O | Parallel data output (N ch Open Drain FET). <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>Latch Data</td> <td>L</td> <td>H</td> </tr> <tr> <td>Output FET</td> <td>ON</td> <td>OFF</td> </tr> </table> | Latch Data | L | H | Output FET | ON | OFF |
| Latch Data | L | H | | | | | | | |
| Output FET | ON | OFF | | | | | | | |
| 16 | VDD | - | Power supply. | | | | | | |

CIRCUIT DESCRIPTION

6-8 VFD Display Controller Driver : LC75711NED (X14, IC78)

| Pin No. | Pin Name | I/O | Pin Description |
|---------------|---------------------|-----|---|
| 1~35 36~38 | AM1~AM35 AA1~AA3 | O | Output pin of Anode. |
| 39~43 | AA4~AA8/ G16~G12 | O | Output pin of Anode and Grid. |
| 44~54 | G11~G1 | O | Output pin of Grid. |
| 55 | VFL | - | Power supply for driver section. |
| 56 | TEST | - | Connected to be ground. |
| 57 | VSS | - | GND |
| 58 | OSCO | O | Crystal oscillation circuit output. |
| 59 | OSCI | I | Crystal oscillation circuit input. |
| 60 | VDD | - | Power supply for logic section (+5.0V). |
| 61 | RES | I | Input pin of system reset. |
| 62 | CE | I | Serial data transfer pin. Chip enable input. |
| 63 | CL | I | Synchronism clock input. |
| 64 | DI | I | Transfer data input. |

6-9 RDS Demodulator IC : BU1923 (X14, IC81) E/T Type Only

| Pin No. | Pin Name | I/O | Pin Description |
|---------|----------|-----|--|
| 1 | QUAL | O | Output signal of demodulation quality. |
| 2 | RDATA | O | RDS Demodulation data output. |
| 3 | VREF | - | Reference voltage connection pin. |
| 4 | MUX | I | Composite signal input. |
| 5 | VDD1 | - | Analog power supply (+5.0V). |
| 6 | VSS1 | - | Analog ground. |
| 7 | VSS3 | I | Comparator input. |
| 8 | CMP | O | Comparator output. |
| 9 | T2 | I | Connected to ground. |
| 10 | T1 | I | Connected to ground. |
| 11 | VSS2 | - | Connected to ground. |
| 12 | VDD2 | - | Digital power supply (+5.0V). |
| 13 | XI | I | Crystal oscillator (4.332MHz) output. |
| 14 | X0 | O | Crystal oscillator (4.332MHz) input. |
| 15 | NC | - | Unused. |
| 16 | RCLK | O | Demodulation clock (1.1875MHz) output. |

6-10 Composite Selector : NJM2284D (X25, IC101)

| Pin No. | Pin Name | I/O | Pin Description |
|---------|----------|-----|-----------------------------|
| 1 | IN1B | I | Composite Cr signal input. |
| 2,7,12 | CTL(1~3) | I | Video switch control input. |
| 3 | OUT1 | O | Composite Cr signal output. |
| 4,10,15 | GND(1~3) | - | GND |
| 5 | OUT2 | O | Composite Cb signal output. |
| 6 | OUT3 | O | Composite Y signal output. |
| 8 | IN3A | I | Composite Y signal input. |
| 9 | IN3B | I | Composite Y signal input. |
| 11 | IN2A | I | Composite Cb signal input. |
| 13 | V | - | Power supply |
| 14 | IN2B | I | Composite Cb signal input. |
| 16 | IN1A | I | Composite Cr signal input. |

CIRCUIT DESCRIPTION

6-11 3 Channel 75ΩDriver : BA7666FS (X25, IC102)

| Pin No. | Pin Name | I/O | Pin Description |
|---------|----------|-----|------------------------------------|
| 1 | MUTE | I | Mute control pin. |
| 2 | INA | I | Composite Y signal input. |
| 3,5,8 | GND | - | Ground pin. |
| 4 | INB | I | Composite Cb signal input. |
| 6,11 | N.C. | - | Unused. |
| 7 | INC | I | Composite Cr signal input. |
| 9 | OUTC2 | O | Output of the composite Cr signal. |
| 10 | OUTC1 | O | Output of the composite Cr signal. |
| 12 | OUTB2 | O | Output of the composite Cb signal. |
| 13 | OUTB1 | O | Output of the composite Cb signal. |
| 14 | OUTA2 | O | Output of the composite Y signal. |
| 15 | OUTA1 | O | Output of the composite Y signal. |
| 16 | VCC | - | Power supply pin. |

6-12 PLL Frequency Synthesizer LSI : LC72131M (Tuner Assy IC2)

| Pin No. | Pin Name | I/O | Pin Description |
|---------|-------------|--------|---|
| 1 | X IN | I | Crystal resonator connection. |
| 2 | CE | I | Chip enable. |
| 3 | DI | I | Input serial data. |
| 4 | CL | I | Used as the synchronization clock when serial data is input to the DI(pin 3), or when serial data is output DO(pin 5). |
| 5 | DO | O | Outputs serial data. |
| 6 | B01 | O | <ul style="list-style-type: none"> Dedicated output pins. The output states are determined by B01 to B04 in the serial data. "Data" =0 : Open "Data" =1 : Low These pins go to the open state after the power-on reset. |
| 7 | B02 | | |
| 8 | B03 | | |
| 9 | B04 | | |
| 10,12 | I01, I02 | I/O | Pins used for both input and output. The input or output state is determined by bits I0C1 and I0C2 in the serial data. "Data" = 0 : Open, "Data" = 1: Low |
| 11 | IF IN | I | IF count input. |
| 13 | AM IN | I | Local oscillator signal input. |
| 14 | FM IN | I | Local oscillator signal input. |
| 15 | VDD | - | Power supply. |
| 16 | PD | O | PLL charge pump output. |
| 17, 18 | AIN AOUT | I O | The MOS transistor used for the PLL active low-pass filter. |
| 19 | VSS | - | Ground. |
| 20 | X OUT | O | Crystal resonator connection. |

ADJUSTMENT

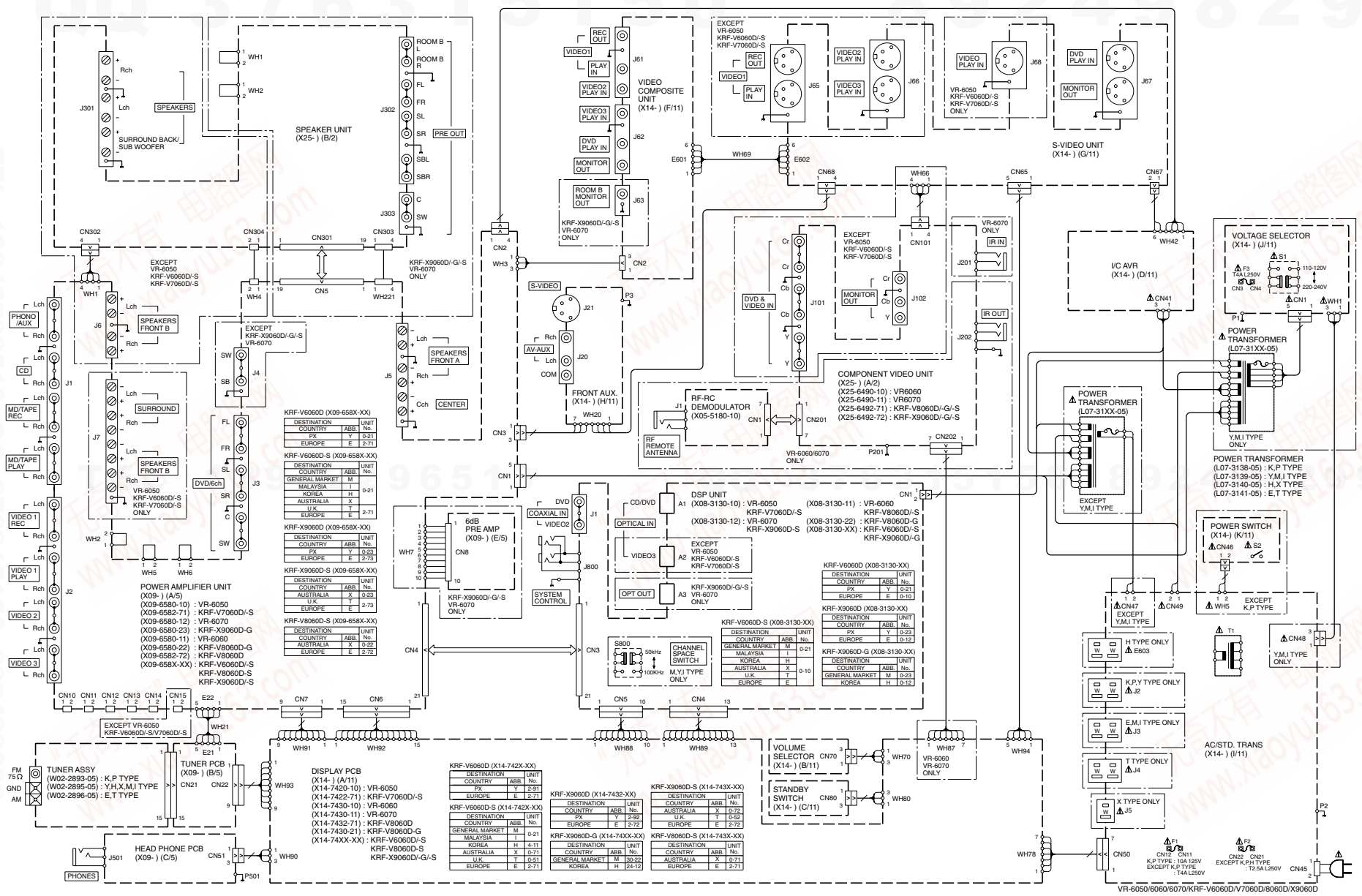
| No. | ITEM | INPUT SETTINGS | OUTPUT SETTINGS | RECEIVER SETTINGS | ALIGNMENT POINTS | ALIGN FOR | FIG. |
|----------------------|--------------|--------------------|---|---|--|--|------|
| AUDIO SECTION | | SPEAKER : A | | | | | |
| <1> | IDLE CURRENT | — | CN11, FL ch. CN10, FR ch. CN14, SL ch. CN13, SR ch. CN12, C ch. CN15, SW ch. X09(A/4) | (FRONT 2ch MODE) Volume: Minimum | VR1(FL) VR2(FR) VR3(SL) VR4(SR) VR5(CENTER) VR6(SUB WOOFER) X09(A/4) | Adjust every potentiometer 10 minutes later after turned the power on. | |

Idling Current Adjustment

All power amplifier stage need idling current adjustment after the installation of TRAIT transistor.

1. Connect a voltmeter to CN11 with the correct polarity as indicated by the PCB silk print.
2. Adjust the preset, VR1 to get 8.8mV (Idling current = 20mA) at the voltmeter reading.
3. Repeat step 1 and 2 for all other channels.

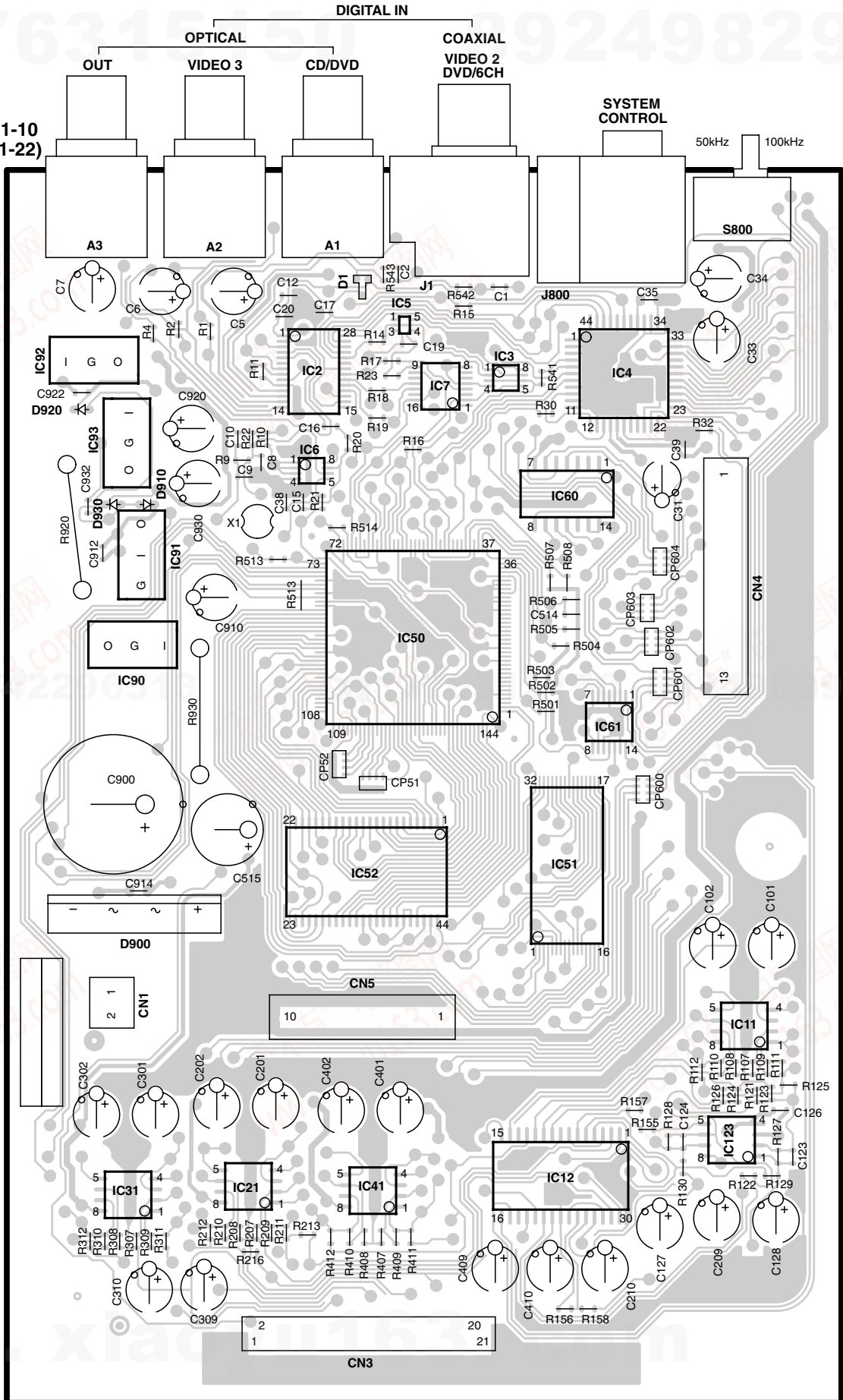
WIRING DIAGRAM



VR-6050/6060/6070/KRF-V6060D/V7060D/8060D/X9060D

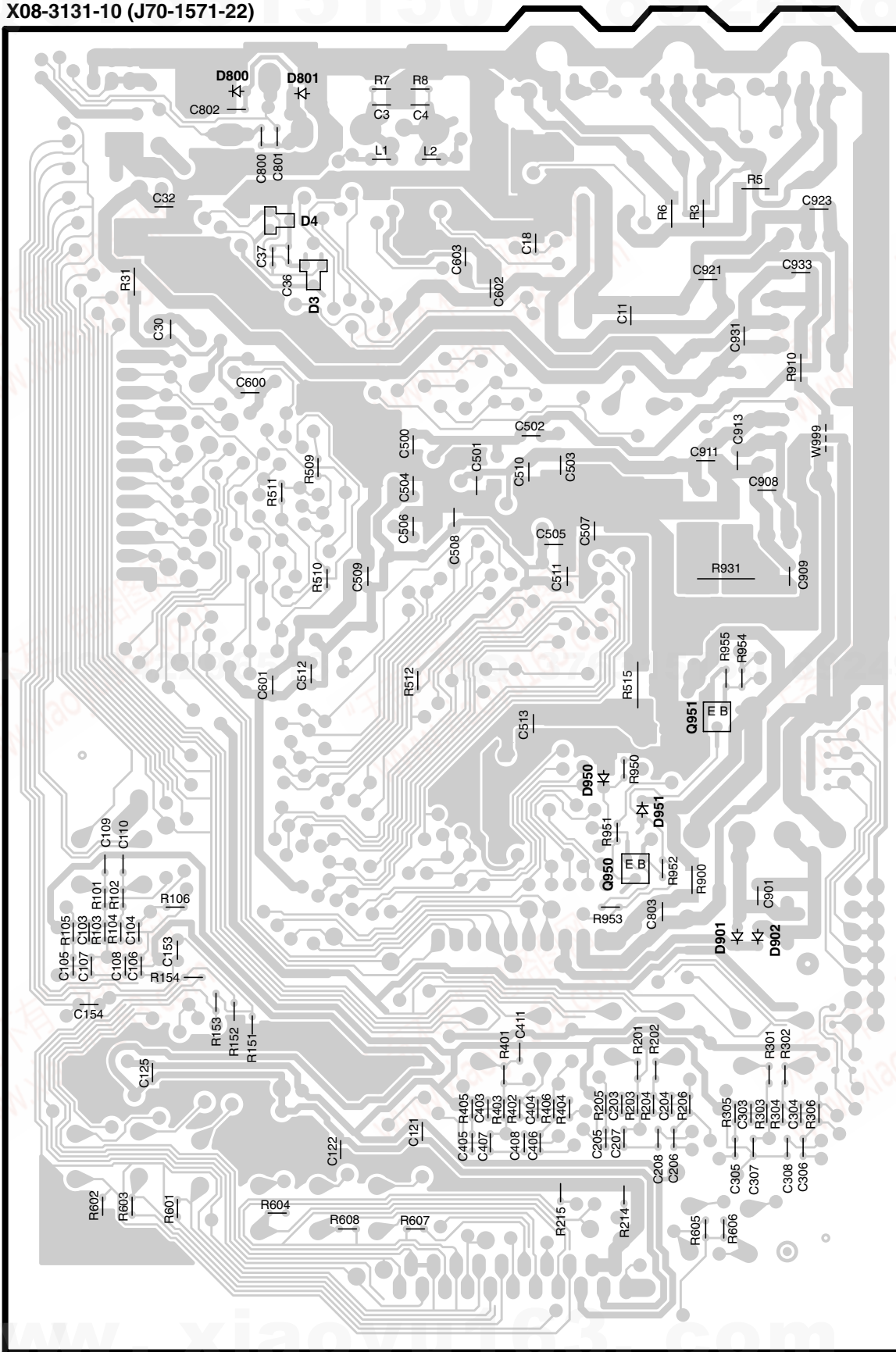
PC BOARD (Component side view)

X08-3131-10
(J70-1571-22)

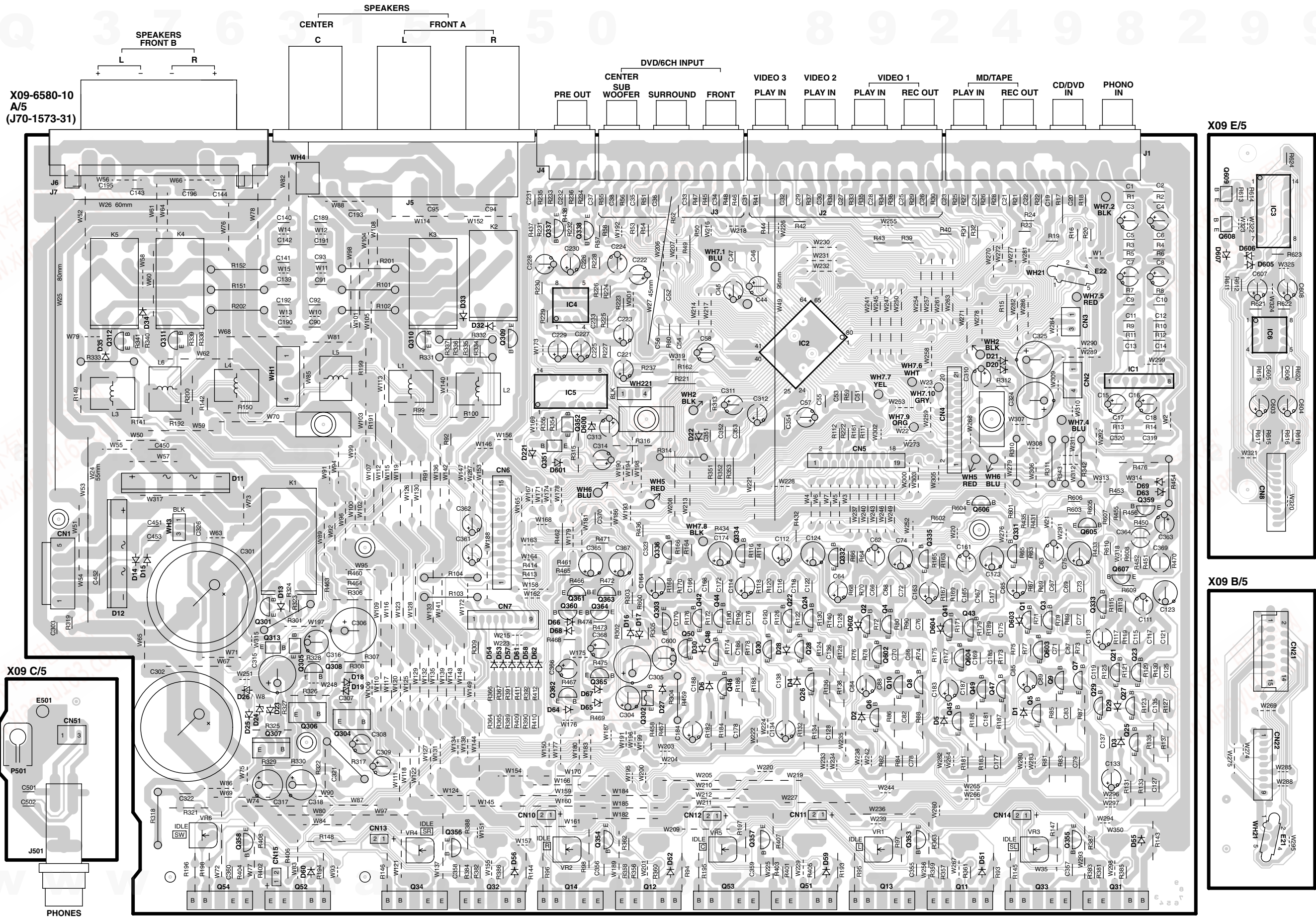


PC BOARD (Component side view)

X08-3131-10 (J70-1571-22)

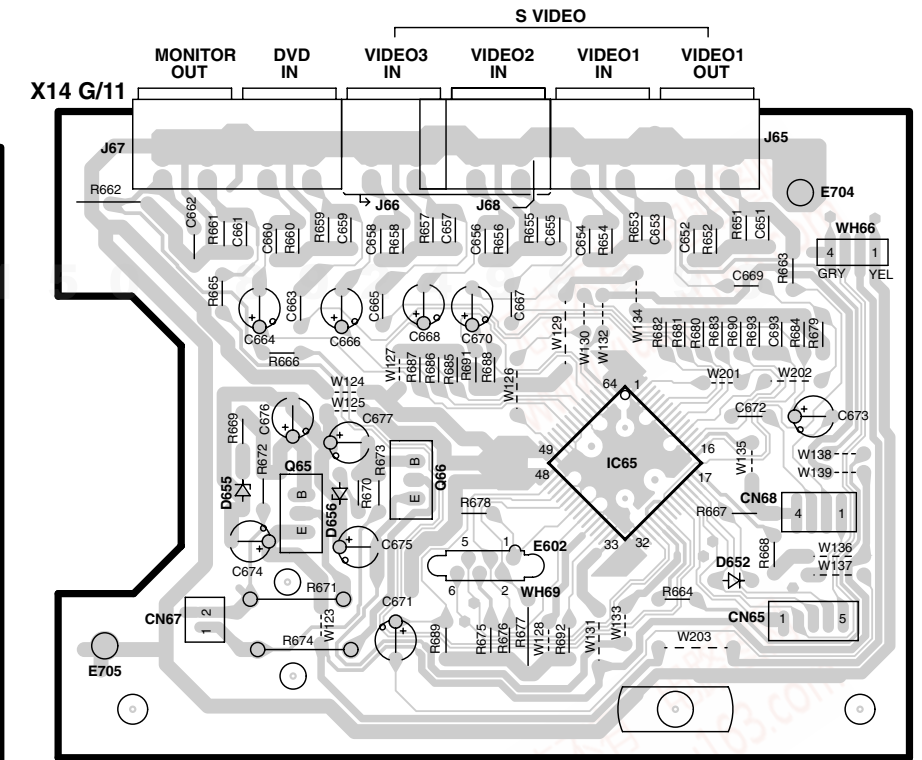
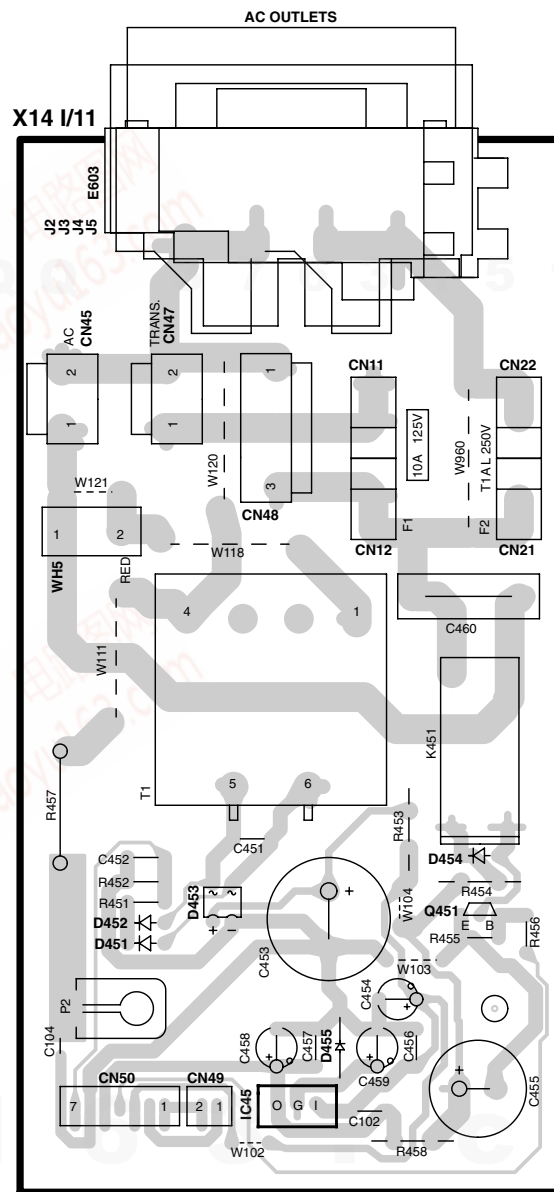
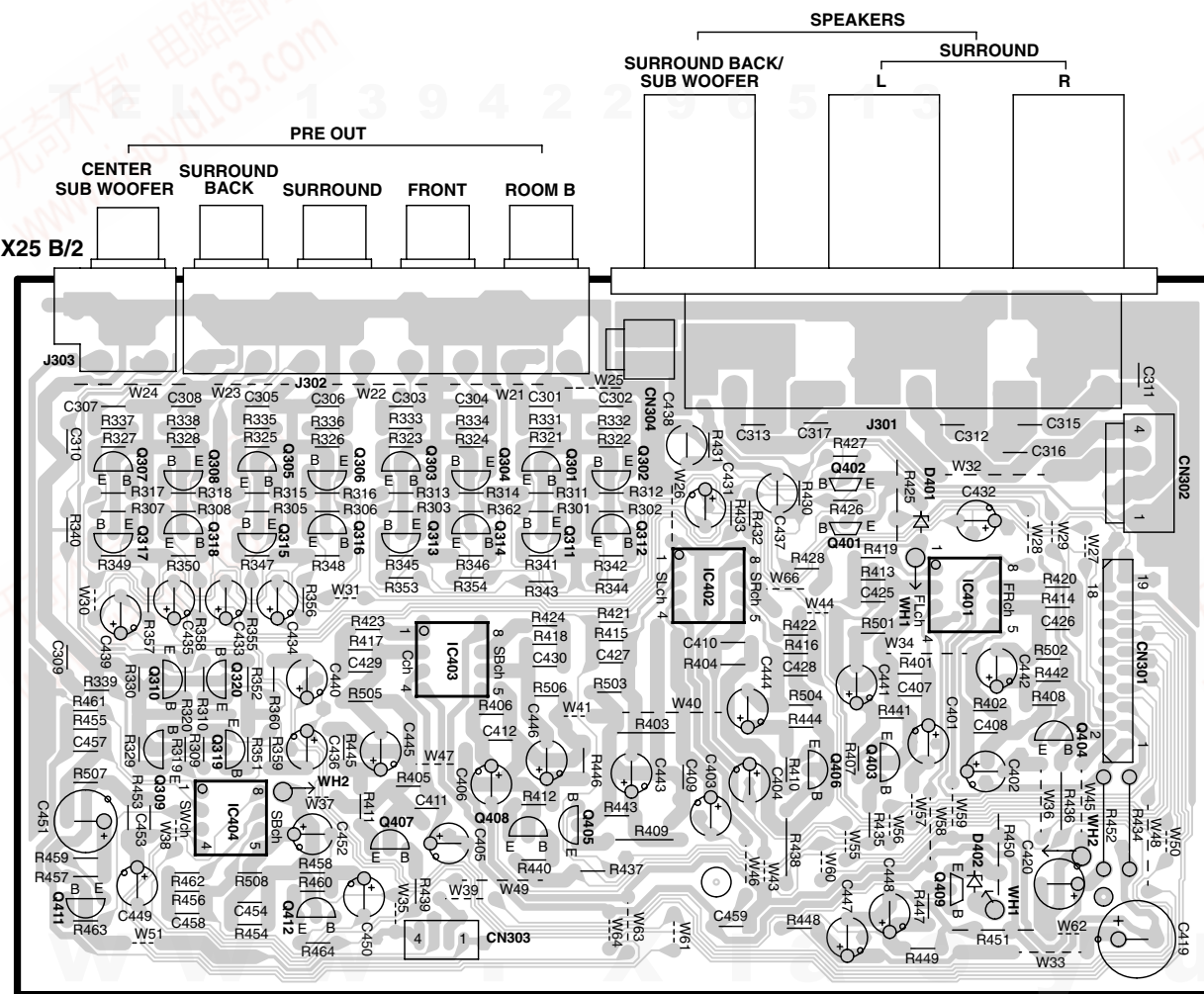
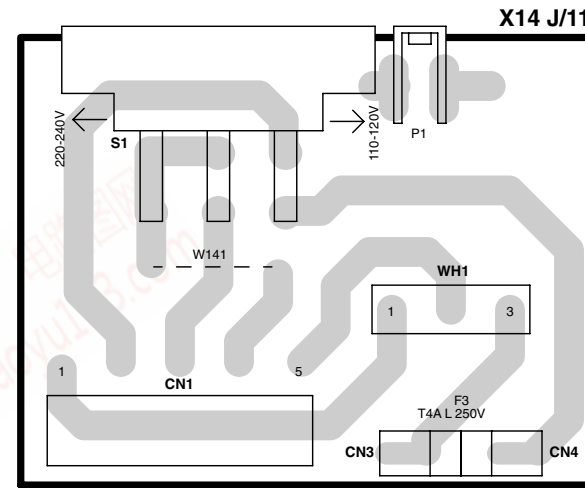
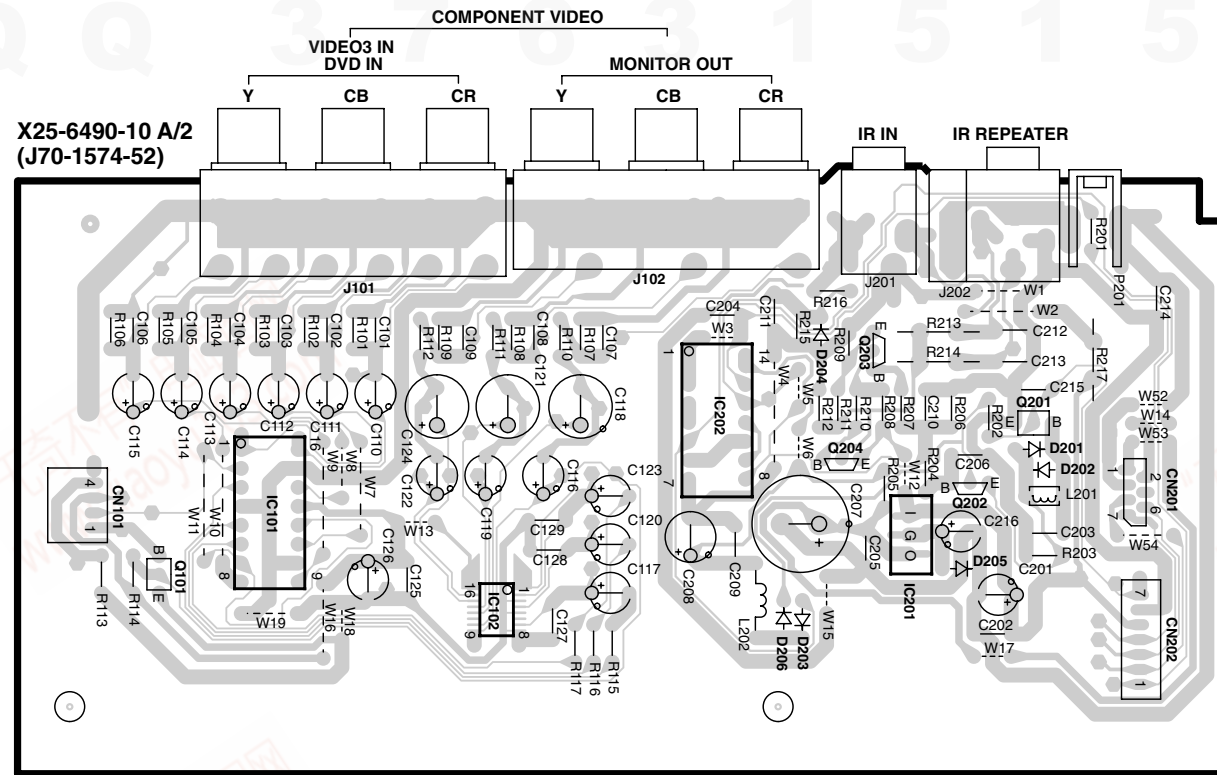


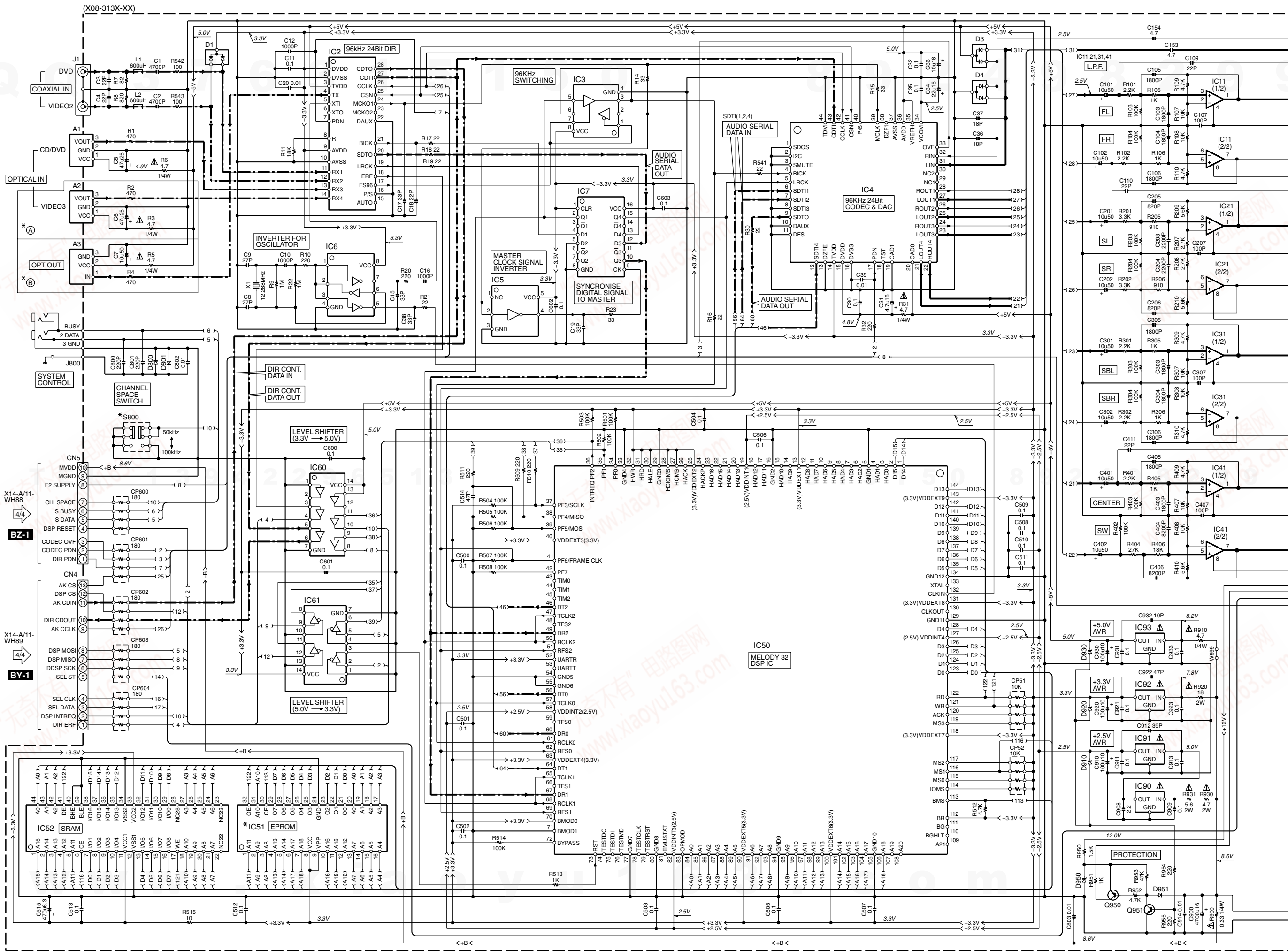
PC BOARD (Component side view)

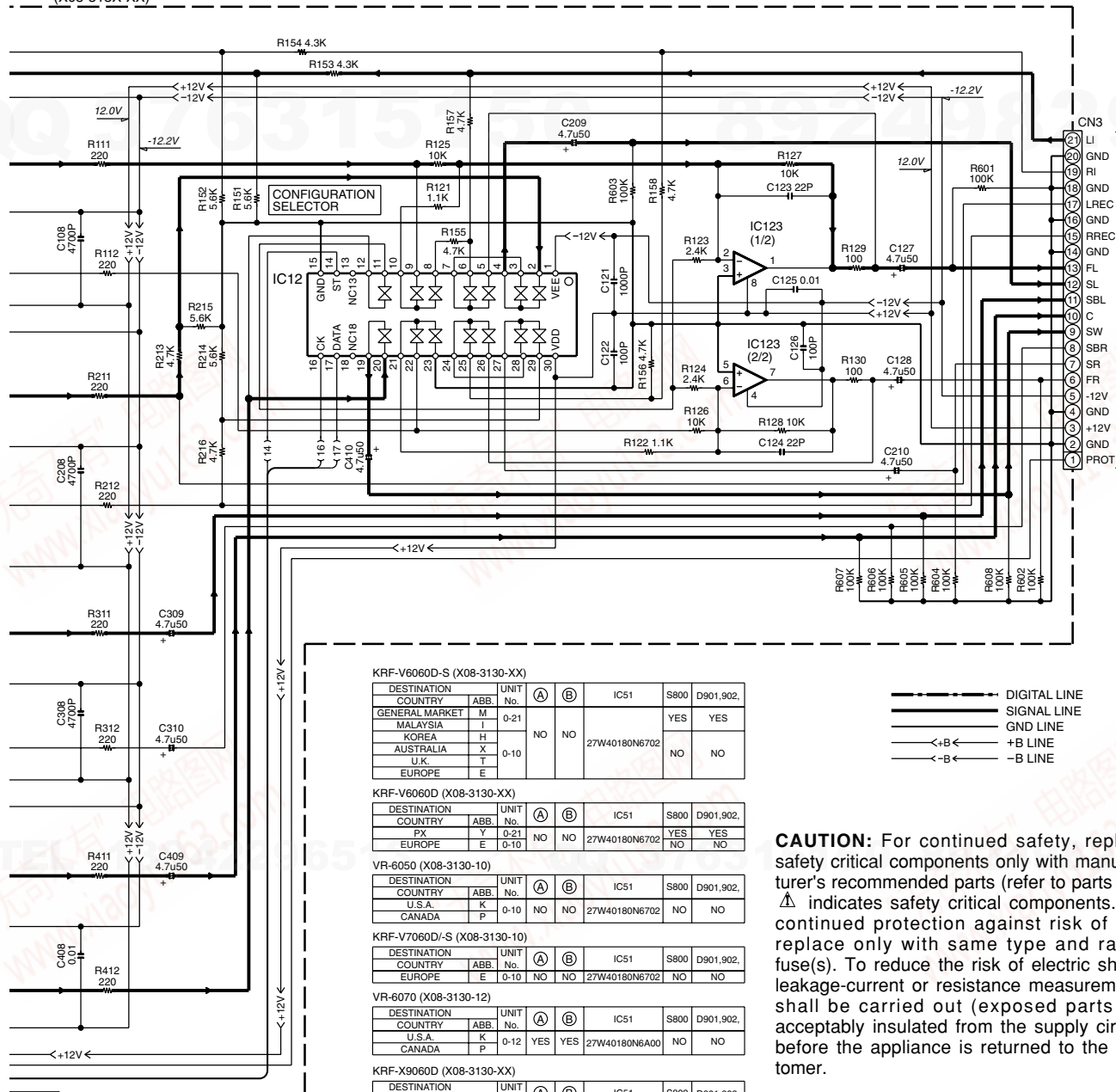


Refer to the schematic diagram for the value of resistors and capacitors.

PC BOARD (Component side view)







X09-A/5-
CN4
2/4
AF-7

KRF-V6060D-S (X08-3130-XX)

| DESTINATION | COUNTRY | ABB. | UNIT No. | (A) | (B) | IC51 | S800 | D901,902. |
|----------------|-----------|------|----------|-----|-----|---------------|------|-----------|
| GENERAL MARKET | MALAYSIA | I | 0-21 | | | 27W40180N6702 | YES | YES |
| | KOREA | H | | NO | NO | | | |
| | AUSTRALIA | X | 0-10 | | | | NO | NO |
| | U.K. | T | | | | | | |
| | EUROPE | E | | | | | | |

KRF-V6060D (X08-3130-XX)

| DESTINATION | COUNTRY | ABB. | UNIT No. | (A) | (B) | IC51 | S800 | D901,902. |
|-------------|---------|------|----------|-----|-----|---------------|------|-----------|
| PX | EUROPE | Y | 0-21 | | | 27W40180N6702 | YES | YES |
| | EUROPE | E | 0-10 | | | | NO | NO |

VR-6050 (X08-3130-10)

| DESTINATION | COUNTRY | ABB. | UNIT No. | (A) | (B) | IC51 | S800 | D901,902. |
|-------------|---------|------|----------|-----|-----|---------------|------|-----------|
| U.S.A. | CANADA | K | 0-10 | | | 27W40180N6702 | NO | NO |
| | CANADA | P | | | | | | |

KRF-V7060D-S (X08-3130-10)

| DESTINATION | COUNTRY | ABB. | UNIT No. | (A) | (B) | IC51 | S800 | D901,902. |
|-------------|---------|------|----------|-----|-----|---------------|------|-----------|
| EUROPE | EUROPE | E | 0-10 | | | 27W40180N6702 | NO | NO |

VR-6070 (X08-3130-12)

| DESTINATION | COUNTRY | ABB. | UNIT No. | (A) | (B) | IC51 | S800 | D901,902. |
|-------------|---------|------|----------|-----|-----|---------------|------|-----------|
| U.S.A. | CANADA | K | 0-12 | YES | YES | 27W40180N6A00 | NO | NO |
| | CANADA | P | | | | | | |

KRF-X9060D (X08-3130-XX)

| DESTINATION | COUNTRY | ABB. | UNIT No. | (A) | (B) | IC51 | S800 | D901,902. |
|-------------|---------|------|----------|-----|-----|---------------|------|-----------|
| PX | EUROPE | Y | 0-23 | YES | YES | 27W40180N6A00 | YES | YES |
| | EUROPE | E | 0-12 | | | | NO | NO |

KRF-X9060D-G (X08-3130-XX)

| DESTINATION | COUNTRY | ABB. | UNIT No. | (A) | (B) | IC51 | S800 | D901,902. |
|----------------|---------|------|----------|-----|-----|---------------|------|-----------|
| GENERAL MARKET | KOREA | M | 0-23 | YES | YES | 27W40180N6A00 | YES | YES |
| | KOREA | H | 0-12 | | | | NO | NO |

KRF-X9060D-S (X08-3130-12)

| DESTINATION | COUNTRY | ABB. | UNIT No. | (A) | (B) | IC51 | S800 | D901,902. |
|-------------|---------|------|----------|-----|-----|---------------|------|-----------|
| AUSTRALIA | U.K. | X | 0-12 | YES | YES | 27W40180N6A00 | NO | NO |
| | EUROPE | E | | | | | | |

VR-6060 (X08-3130-11)

| DESTINATION | COUNTRY | ABB. | UNIT No. | (A) | (B) | IC51 | S800 | D901,902. |
|-------------|---------|------|----------|-----|-----|---------------|------|-----------|
| U.S.A. | CANADA | K | 0-11 | YES | NO | 27W40180N6902 | NO | NO |
| | CANADA | P | | | | | | |

KRF-V8060D-G (X08-3130-22)

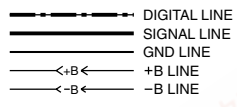
| DESTINATION | COUNTRY | ABB. | UNIT No. | (A) | (B) | IC51 | S800 | D901,902. |
|----------------|----------------|------|----------|-----|-----|---------------|------|-----------|
| GENERAL MARKET | GENERAL MARKET | M | 0-22 | YES | NO | 27W40180N6902 | YES | YES |

KRF-V8060D-S (X08-3130-11)

| DESTINATION | COUNTRY | ABB. | UNIT No. | (A) | (B) | IC51 | S800 | D901,902. |
|-------------|---------|------|----------|-----|-----|---------------|------|-----------|
| AUSTRALIA | EUROPE | X | 0-11 | YES | NO | 27W40180N6902 | NO | NO |
| | EUROPE | E | | | | | | |

KRF-V8060D (X08-3130-11)

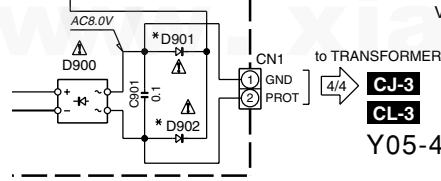
| DESTINATION | COUNTRY | ABB. | UNIT No. | (A) | (B) | IC51 | S800 | D901,902. |
|-------------|---------|------|----------|-----|-----|---------------|------|-----------|
| EUROPE | EUROPE | E | 0-11 | YES | NO | 27W40180N6902 | NO | NO |



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.

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.

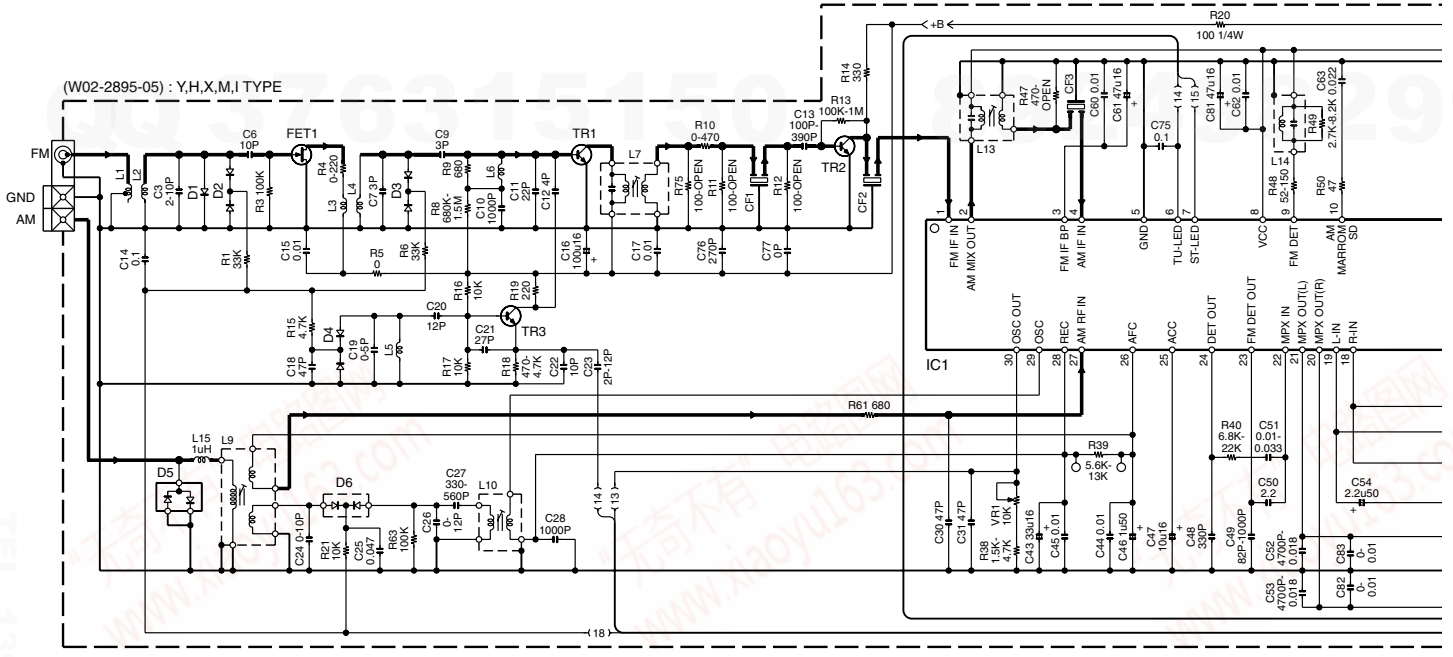
- IC2 : AK4112BVF
- IC3 : TC7WH241FU
- IC4 : AK4529-VQ
- IC5 : TC7SHU04FU
- IC6 : TC7WU04FU
- IC7 : TC74VHC175FT
- IC11,21,31,41,123 : NJM4565M or NJM4565MD
- IC12 : NJU7311AM
- IC50 : ADSST-MEL322
- IC51 : *
- IC52 : A61L6316-12V
- IC60 : TC74HCT7007AF
- IC61 : TC74VHC125FT
- IC91 : NJU7223F25
- IC92 : BA033T
- IC90,93 : BA05T
- Q950 : 2SB1218A(Q,R) or 2SA1576A(R,S)
- Q951 : 2SD1819A(Q,R) or 2SC4081(R,S)
- D1,3 : DAN202U or 1SS301 or MA142WK
- D4 : DAP202U or 1SS300 or MA142WA
- D800,801,901,902,951 : MA111
- D900 : D2SBA20F03
- D910,920 : HZU3.9(B2) or UDZ3.9B
- D930 : HZU5.6(B2) or UDZ5.6B
- D950 : HZU5.1(B2) or UDZ5.1B



VR-6050/6060/6070/KRF-V6060D/V7060D/V8060D/X9060D (1/4)

CJ-3
CL-3
Y05-4660-10

KRF-V6060D/V7060D/V8060D/X9060D/VR-6050/6060/6070



VR-6050 (X09-6580-10)

| DESTINATION | COUNTRY | ABB. | UNIT No. | (A) | (B) | (D) | (F) | (C) | (E) | C64.65, 163 | C74.75, 173 | C82.83, 181 | C84.85, 183 | C90.93, 139-140, 189 | C92.93, 141, 142, 190-192, 227, 228, 326 | C143, 144 | C301, 302 | C307 | C322 | C363 | C369 | CN5, 15 | D23 | D24 | D25 | D26 | J4, 7 | J6 | |
|-------------|---------|------|----------|-----|-----|-----|-----|-----|-----|-------------|-------------|-------------|-------------|----------------------|--|-----------|-----------|---------------------|------|------|-------|---------|-----|------------------------|------------------------|------------------------|-------|-----|----|
| U.S.A. | K | | 0-10 | NO | | | | YES | | 3.3u50 | 100u25 | 10P | 22u50 | 0.1 | NO | NO | YES | 4700u75 C90-3984-05 | 220P | 15P | 22u16 | 33u16 | NO | MTZJ10(B) or RD10ES(B) | MTZJ15(B) or RD15ES(B) | MTZJ24(B) or RD24ES(B) | NO | YES | NO |
| CANADA | P | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

KRF-V6060D (X09-658X-XX)

| DESTINATION | COUNTRY | ABB. | UNIT No. | (A) | (B) | (D) | (F) | (C) | (E) | C64.65, 163 | C74.75, 173 | C82.83, 181 | C84.85, 183 | C90.93, 139-142, 189, 191 | C143, 144 | C190, 192, 227, 228, 326 | C301, 302 | C307 | C322 | C363 | C369 | CN5, 15 | D23 | D24 | D25 | D26 | J4, 7 | J6 | |
|-------------|---------|------|----------|-----|-----|-----|-----|-----|-----|-------------|-------------|-------------|-------------|---------------------------|-----------|--------------------------|---------------------|------|------|-------|-------|---------|------------------------|--------------------------|------------------------|-----|-------|----|--|
| PX | Y | | 0-21 | NO | | | | NO | YES | 3.3u50 | 100u25 | 10P | 22u50 | 0.22 | NO | NO | 4700u75 C90-3984-05 | 220P | 15P | 22u16 | 33u16 | NO | MTZJ11(B) or RD11ES(B) | MTZJ7.5(B) or RD7.5ES(B) | MTZJ30(B) or RD30ES(B) | NO | YES | NO | |
| EUROPE | E | | 2-71 | YES | | | | | | | | | | | | | | | | | | | | | | | | | |

KRF-V6060D-S (X09-658X-XX)

| DESTINATION | COUNTRY | ABB. | UNIT No. | (A) | (B) | (D) | (F) | (C) | (E) | C64.65, 163 | C74.75, 173 | C82.83, 181 | C84.85, 183 | C90.93, 139-142, 189, 191 | C143, 144 | C190, 192, 227, 228, 326 | C301, 302 | C307 | C322 | C363 | C369 | CN5, 15 | D23 | D24 | D25 | D26 | J4, 7 | J6 | |
|----------------|---------|------|----------|-----|-----|-----|-----|-----|-----|-------------|-------------|-------------|-------------|---------------------------|-----------|--------------------------|---------------------|------|------|-------|-------|---------|------------------------|--------------------------|------------------------|-----|-------|----|--|
| GENERAL MARKET | M | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MALAYSIA | I | | 0-21 | NO | | | | NO | YES | 3.3u50 | 100u25 | 10P | 22u50 | 0.22 | YES | NO | 4700u75 C90-3984-05 | 220P | 15P | 22u16 | 33u16 | NO | MTZJ11(B) or RD11ES(B) | MTZJ7.5(B) or RD7.5ES(B) | MTZJ30(B) or RD30ES(B) | NO | YES | NO | |
| KOREA | H | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AUSTRALIA | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U.K. | T | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EUROPE | E | | 2-71 | YES | | | | | | | | | | | | | | | | | | | | | | | | | |

KRF-V7060D-S (X09-6582-71)

| DESTINATION | COUNTRY | ABB. | UNIT No. | (A) | (C) | (E) | (B) | (D) | (F) | C64.65, 163 | C74.75, 173 | C82.83, 181 | C84.85, 183 | C90.93, 139-142, 189, 191 | C143, 144 | C190, 192, 227, 228, 326 | C301, 302 | C307 | C322 | C363 | C369 | CN5, 15 | D23, 24 | D25 | D26 | J4, 7 | J6 | K2-5 | L6 | Q313 |
|-------------|---------|------|----------|-----|-----|-----|-----|-----|-----|-------------|-------------|-------------|-------------|---------------------------|-----------|--------------------------|---------------------|------|------|-------|-------|---------|------------------------|------------------------|-----|-------|----|-------------|----|------|
| EUROPE | E | | 2-71 | YES | | NO | | | | 3.3u50 | 100u25 | 10P | 22u50 | 0.22 | YES | NO | 4700u75 C90-3984-05 | 220P | 15P | 22u16 | 33u16 | NO | MTZJ10(B) or RD10ES(B) | MTZJ24(B) or RD24ES(B) | NO | YES | NO | S76-0098-05 | NO | NO |

VR-6070 (X09-6580-12)

| DESTINATION | COUNTRY | ABB. | UNIT No. | (A) | (B) | (D) | (F) | (C) | (E) | C64.65, 163 | C74.75, 173 | C84.85, 183 | C82.83, 143, 144, 181 | C84.85, 183 | C90.93, 139-142, 189, 191 | C227, 228 | C301, 302 | C307 | C322 | C326 | C307 | C369 | CN5, 15 | D23 | D24 | D25 | D26 | J4, 7 | J6 | K2-5 | |
|-------------|---------|------|----------|-----|-----|-----|-----|-----|-----|-------------|-------------|-------------|-----------------------|-------------|---------------------------|-----------|-----------|---------------------|------|------|------|-------|---------|------------------------|--------------------------|------------------------|-----|-------|-----|-------------|--|
| U.S.A. | K | | 0-12 | YES | | | | NO | | 3.3u100 | 220u10 | 47u25 | NO | 47u25 | 0.22 | YES | NO | 1000u74 C90-5749-05 | 180P | 12P | 22P | 22u25 | YES | MTZJ10(B) or RD10ES(B) | MTZJ7.5(B) or RD7.5ES(B) | MTZJ30(B) or RD30ES(B) | NO | NO | YES | S76-0045-15 | |
| CANADA | P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

KRF-X9060D (X09-658X-XX)

| DESTINATION | COUNTRY | ABB. | UNIT No. | (A) | (B) | (D) | (F) | (C) | (E) | C64.65, 163 | C74.75, 173 | C82.83, 143, 144, 181 | C84.85, 183 | C90.93, 139-142, 189, 192 | C227, 228 | C301, 302 | C307 | C322 | C326 | C369 | CN5, 15 | D23 | D24 | D25 | D26 | J4, 7 | J6 | K2-5 | L6 | |
|-------------|---------|------|----------|-----|-----|-----|-----|-----|-----|-------------|-------------|-----------------------|-------------|---------------------------|-----------|---------------------|------|------|------|-------|---------|------------------------|--------------------------|------------------------|-----|-------|-------------|------|----|--|
| PX | Y | | 0-23 | YES | | | | NO | | 3.3u100 | 220u10 | NO | 47u25 | 0.22 | YES | 1000u74 C90-5749-05 | 180P | 12P | 22P | 22u25 | YES | MTZJ11(B) or RD11ES(B) | MTZJ7.5(B) or RD7.5ES(B) | MTZJ30(B) or RD30ES(B) | NO | YES | S76-0045-15 | YES | | |
| EUROPE | E | | 2-73 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

KRF-X9060D-G (X09-6580-23)

| DESTINATION | COUNTRY | ABB. | UNIT No. | (A) | (B) | (D) | (F) | (C) | (E) | C64.65, 163 | C74.75, 173 | C82.83, 143, 144, 181 | C84.85, 183 | C90.93, 139-142, 189, 192 | C227, 228 | C301, 302 | C307 | C322 | C326 | C369 | CN5, 15 | D23 | D24 | D25 | D26 | J4, 7 | J6 | K2-5 | L6 |
|----------------|---------|------|----------|-----|-----|-----|-----|-----|-----|-------------|-------------|-----------------------|-------------|---------------------------|-----------|---------------------|------|------|------|-------|---------|------------------------|--------------------------|------------------------|-----|-------|-----|-------------|-----|
| GENERAL MARKET | M | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| KOREA | H | | 0-23 | YES | | | | NO | | 3.3u100 | 220u10 | NO | 47u25 | 0.22 | YES | 1000u74 C90-5749-05 | 180P | 12P | 22P | 22u25 | YES | MTZJ11(B) or RD11ES(B) | MTZJ7.5(B) or RD7.5ES(B) | MTZJ30(B) or RD30ES(B) | NO | NO | YES | S76-0045-15 | YES |

KRF-X9060D-S (X09-658X-XX)

| DESTINATION | COUNTRY | ABB. | UNIT No. | (A) | (B) | (D) | (F) | (C) | (E) | C64.65, 163 | C74.75, 173 | C82.83, 143, 144, 181 | C84.85, 183 | C90.93, 139-142, 189, 192 | C227, 228 | C301, 302 | C307 | C322 | C326 | C369 | CN5, 15 | D23 | D24 | D25 | D26 | J4, 7 | J6 | K2-5 | L6 |
|-------------|---------|------|----------|-----|-----|-----|-----|-----|-----|-------------|-------------|-----------------------|-------------|---------------------------|-----------|---------------------|------|------|------|-------|---------|------------------------|--------------------------|------------------------|-----|-------|-----|-------------|-----|
| AUSTRALIA | X | | 0-23 | YES | | | | NO | | 3.3u100 | 220u10 | NO | 47u25 | 0.22 | YES | 1000u74 C90-5749-05 | 180P | 12P | 22P | 22u25 | YES | MTZJ11(B) or RD11ES(B) | MTZJ7.5(B) or RD7.5ES(B) | MTZJ30(B) or RD30ES(B) | NO | NO | YES | S76-0045-15 | YES |
| EUROPE | E | | 2-73 | | | | | | | | | | | | | | | | | | | | | | | | | | |

VR-6060 (X09-6580-11)

| DESTINATION | COUNTRY | ABB. | UNIT No. | (A) | (B) | (C) | (D) | (E) | (F) | C64.65, 163 | C74.75, 173 | C82.83, 181 | C84.85, 183 | C90.93, 139-140, 189, 190 | C92.93, 141-144, 191, 192, 326 | C227, 228 | C301, 302 | C307 | C322 | C363 | C369 | CN5, 15 | CN15 | D23 | D24 | D25 | D26 | J4, 6 | J7 | |
|-------------|---------|------|----------|-----|-----|-----|-----|-----|-----|-------------|-------------|-------------|-------------|---------------------------|--------------------------------|-----------|---------------------|------|------|-------|-------|---------|------|-----|------------------------|------------------------|------------------------|-------|-----|----|
| U.S.A. | K | | 0-11 | YES | | | | | NO | 3.3u50 | 100u25 | 10P | 22u50 | 0.1 | NO | YES | 4700u75 C90-3984-05 | 220P | 15P | 22u16 | 33u16 | NO | NO | YES | MTZJ10(B) or RD10ES(B) | MTZJ15(B) or RD15ES(B) | MTZJ24(B) or RD24ES(B) | NO | YES | NO |
| CANADA | P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

KRF-V8060D-G (X09-6580-22)

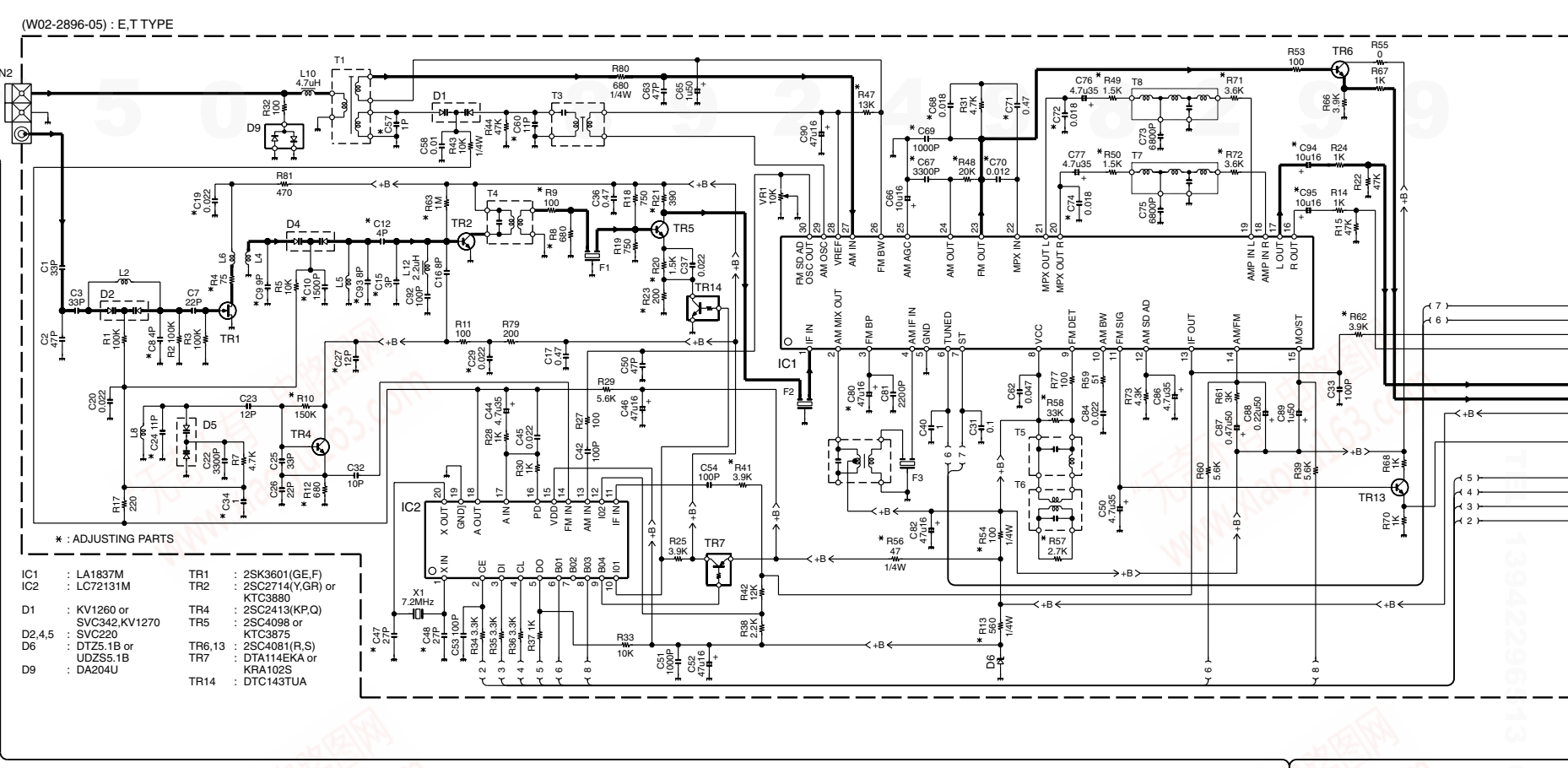
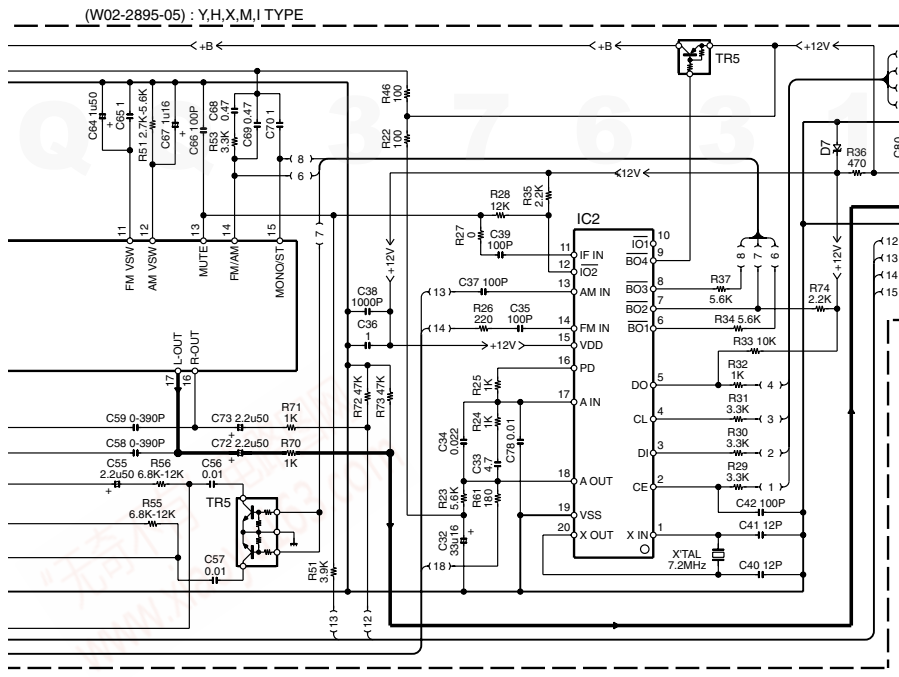
| DESTINATION | COUNTRY | ABB. | UNIT No. | (A) | (B) | (C) | (D) | (E) | (F) | C64.65, 163 | C74.75, 173 | C82.83, 181 | C84.85, 183 | C90.93, 139-142, 189, 192 | C143, 144, 326 | C227, 228 | C301, 302 | C307 | C322 | C363 | C369 | CN5, 15 | CN15 | D23 | D24 | D25 | D26 | J4, 6 | J7 | K2-5 |
|----------------|---------|------|----------|-----|-----|-----|-----|-----|-----|-------------|-------------|-------------|-------------|---------------------------|----------------|-----------|---------------------|------|------|-------|-------|---------|------|------------------------|--------------------------|------------------------|-----|-------|----|-------------|
| GENERAL MARKET | M | | 0-22 | YES | | | | NO | | 3.3u50 | 100u25 | 10P | 22u50 | 0.22 | NO | YES | 4700u75 C90-3984-05 | 220P | 15P | 22u16 | 33u16 | NO | YES | MTZJ11(B) or RD11ES(B) | MTZJ7.5(B) or RD7.5ES(B) | MTZJ30(B) or RD30ES(B) | NO | YES | NO | S76-0045-15 |

KRF-V8060D-S (X09-658X-XX)

| DESTINATION | COUNTRY | ABB. | UNIT No. | (A) | (B) | (C) | (D) | (E) | (F) | C64.65, 163 | C74.75, 173 | C82.83, 181 | C84.85, 183 | C90.93, 139-142, 189, 192 | C143, 144, 326 | C227, 228 | C301, 302 | C307 | C322 | C363 | C369 | CN5, 15 | CN15 | D23 | D24 | D25 | D26 | J4, 6 | J7 | |
|-------------|---------|------|----------|-----|-----|-----|-----|-----|-----|-------------|-------------|-------------|-------------|---------------------------|----------------|-----------|---------------------|------|------|-------|-------|---------|------|-----|------------------------|--------------------------|------------------------|-------|-----|----|
| AUSTRALIA | X | | 0-22 | YES | | | | NO | | 3.3u50 | 100u25 | 10P | 22u50 | 0.22 | NO | YES | 4700u75 C90-3984-05 | 220P | 15P | 22u16 | 33u16 | NO | NO | YES | MTZJ11(B) or RD11ES(B) | MTZJ7.5(B) or RD7.5ES(B) | MTZJ30(B) or RD30ES(B) | NO | YES | NO |
| EUROPE | E | | 2-72 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

KRF-V8060D (X09-6582-72)

| DESTINATION | COUNTRY | ABB. | UNIT No. | (A) | (B) | (C) | (D) | (E) | (F) | C64.65, 163 | C74.75, 173 | C82.83, 181 | C84.85, 183 | C90.93, 139-142, 189, 192 | C143, 144, 326 | C227, 228 | C301, 302 | C307 | C322 | C363 | C369 | CN5, 15 | CN15 | D23, 24 | D25 | D26 | J4, 6 | J7 | K2-5 | L6 | |
|-------------|---------|------|----------|-----|-----|-----|-----|-----|-----|-------------|-------------|-------------|-------------|---------------------------|----------------|-----------|---------------------|------|------|-------|-------|---------|------|---------|------------------------|------------------------|-------|-----|------|-------------|-----|
| EUROPE | E | | 2-72 | YES | | | | NO | | 3.3u50 | 100u25 | 10P | 22u50 | 0.22 | NO | YES | 4700u75 C90-3984-05 | 220P | 15P | 22u16 | 33u16 | NO | NO | YES | MTZJ10(B) or RD10ES(B) | MTZJ24(B) or RD24ES(B) | NO | YES | NO | S76-0098-05 | YES |



| | | | | | | | | | | | | | | |
|-------------|----|------|---------|-----------------------|---------------------|---------------|------|-------------------------------|------|------|-----------|-------------------|----------|------------|
| K2-5 | L6 | Q313 | R13, 14 | R65,66,63,18, 603,604 | R79,80,129, 130,179 | R180, 200,202 | R303 | R304,358,359, 383,384,403,404 | R317 | R318 | R413, 414 | W1,2, 14,15,20-23 | W3,4, 13 | WH1,4, 221 |
| S76-0045-15 | NO | NO | 220K | 1.5K | 390 | NO | 1 | 10K | 2.2K | 2.2K | 1.2K | YES | NO | NO |
| S76-0098-05 | NO | NO | 47K | 430 | 430 | NO | 1 | 10K | 1.2K | 1.5K | 1.5K | NO | NO | NO |

| | | | | | | | | | | | | | | |
|-------------|----|------|---------|-----------------------|---------------------|---------------|------|-------------------------------|------|------|-----------|-------------------|----------|------------|
| K2-5 | L6 | Q313 | R13, 14 | R65,66,63,18, 603,604 | R79,80,129, 130,179 | R180, 200,202 | R303 | R304,358,359, 383,384,403,404 | R317 | R318 | R413, 414 | W1,2, 14,15,20-23 | W3,4, 13 | WH1,4, 221 |
| S76-0045-15 | NO | NO | 220K | 1.5K | 390 | NO | 1 | 10K | 2.2K | 2.2K | 1.2K | YES | NO | NO |
| S76-0098-05 | NO | NO | 47K | 430 | 430 | NO | 1 | 10K | 1.2K | 1.5K | 1.5K | NO | NO | NO |

| | | | | | | | | | | | | | |
|---------|-------------------------------|---------------------|-----------|------|------|------|------|---------------------------|-----------|-----------|-----------------------|----------|------------|
| R13, 14 | R65,66,63,18, 413,414,603,604 | R79,80,129, 130,179 | R200, 202 | R303 | R304 | R317 | R318 | R358,359,383, 384,403,404 | R413, 414 | R603, 604 | W1,2,5-7, 10-15,20-23 | W3,4, 13 | WH1,4, 221 |
| 47K | 1.5K | 430 | NO | 1 | 10K | 1.2K | NO | YES | NO | YES | NO | NO | NO |

| | | | | | | | | | | | | | | | |
|-----|------|---------|---------|-------------------------|-----------|------|------|------|------|---------------------------|-----------|-----------|-----------------------|----------|------------|
| L6 | Q313 | R13, 14 | R65, 66 | R79,80,129, 130,179,180 | R200, 202 | R303 | R304 | R317 | R318 | R358,359,383, 384,403,404 | R413, 414 | R603, 604 | W1,2,5-7, 10-15,20-23 | W3,4, 13 | WH1,4, 221 |
| YES | NO | 47K | 2.2K | 1.6K | YES | 560 | 8.2K | 2.2K | 2.2K | 9.1K | 1.2K | 470 | NO | YES | YES |

| | | | | | | | | | | | | | | |
|------|---------|---------|-------------------------|-----------|------|------|------|------|---------------------------|-----------|-----------|-----------------------|----------|------------|
| Q313 | R13, 14 | R65, 66 | R79,80,129, 130,179,180 | R200, 202 | R303 | R304 | R317 | R318 | R358,359,383, 384,403,404 | R413, 414 | R603, 604 | W1,2,5-7, 10-15,20-23 | W3,4, 13 | WH1,4, 221 |
| NO | 47K | 2.2K | 1.6K | YES | 560 | 8.2K | 2.2K | 2.2K | 9.1K | 1.2K | 470 | NO | YES | YES |

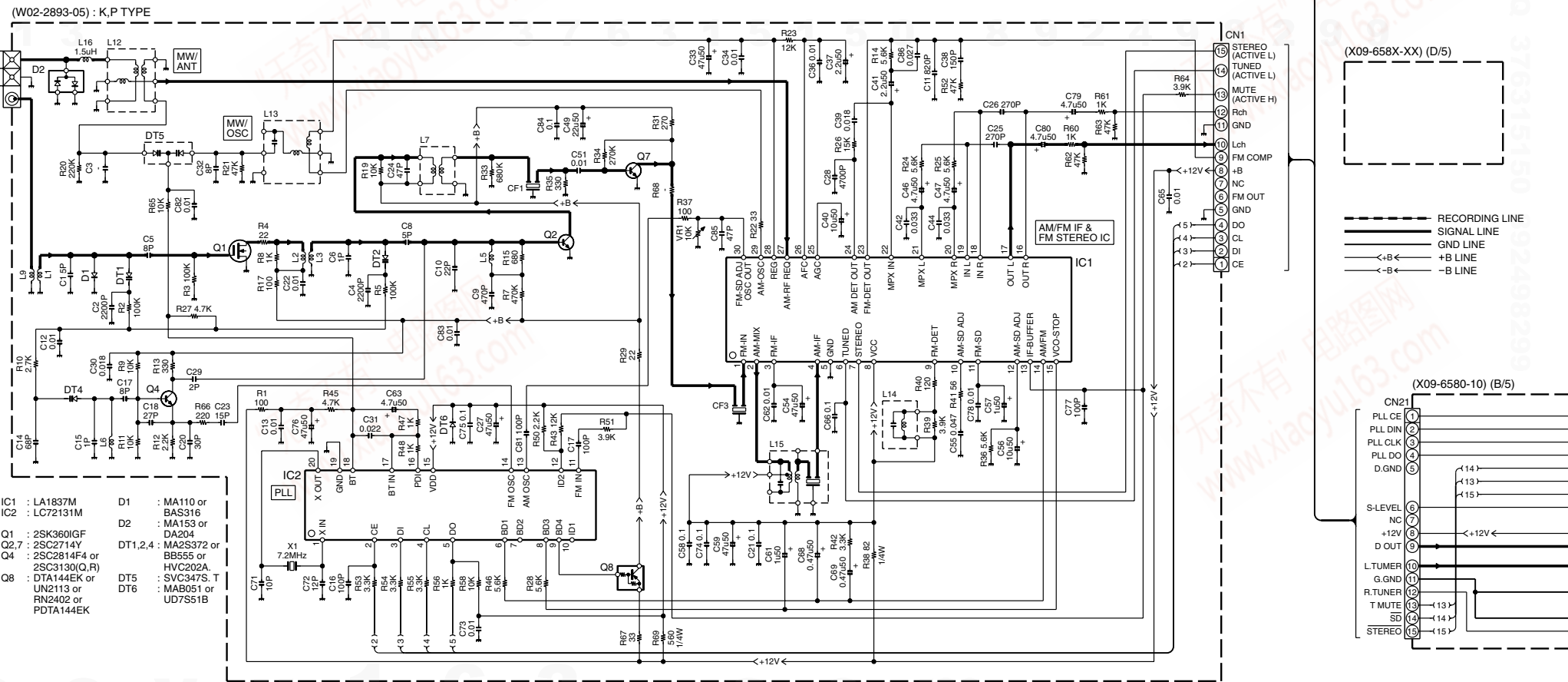
| | | | | | | | | | | | | | | |
|------|---------|-------------------------------|-------------------------|-----------|------|------|------|------|---------------------------|-----------|-----------|-----------------------|----------|------------|
| Q313 | R13, 14 | R65,66,63,18, 413,414,603,604 | R79,80,129, 130,179,180 | R200, 202 | R303 | R304 | R317 | R318 | R358,359,383, 384,403,404 | R413, 414 | R603, 604 | W1,2,5-7, 10-15,20-23 | W3,4, 13 | WH1,4, 221 |
| NO | 47K | 2.2K | 1.6K | YES | 560 | 8.2K | 2.2K | 2.2K | 9.1K | 1.2K | 470 | NO | YES | YES |

| | | | | | | | | | | | | | | | |
|-------------|-----|------|---------|-----------------------|---------------------|---------------|------|-------------------------------|------|------|-----------|-------------|-------------|--------|-------|
| K2-5 | L6 | Q313 | R13, 14 | R65,66,63,18, 603,604 | R79,80,129, 130,179 | R180, 200,202 | R303 | R304,358,359, 383,384,403,404 | R317 | R318 | R413, 414 | W1-4, 10-15 | W5-8, 20-23 | WH1, 4 | WH221 |
| S76-0045-15 | YES | NO | 47K | 1.5K | 390 | 4.7K | YES | 1 | 10K | 2.2K | 1.2K | NO | YES | YES | NO |
| S76-0098-05 | YES | NO | 47K | 1.5K | 430 | 5.1K | YES | 1 | 10K | 1.2K | 1.5K | NO | YES | YES | NO |

| | | | | | | | | | | | | | | | |
|-------------|-----|------|---------|-----------------------|---------------------|---------------|------|-------------------------------|------|------|-----------|-------------|-------------|--------|-------|
| K2-5 | L6 | Q313 | R13, 14 | R65,66,63,18, 603,604 | R79,80,129, 130,179 | R180, 200,202 | R303 | R304,358,359, 383,384,403,404 | R317 | R318 | R413, 414 | W1-4, 10-15 | W5-8, 20-23 | WH1, 4 | WH221 |
| S76-0045-15 | YES | NO | 47K | 1.5K | 390 | 4.7K | YES | 1 | 10K | 2.2K | 1.2K | NO | YES | YES | NO |
| S76-0098-05 | YES | NO | 47K | 1.5K | 430 | 5.1K | YES | 1 | 10K | 1.2K | 1.5K | NO | YES | YES | NO |

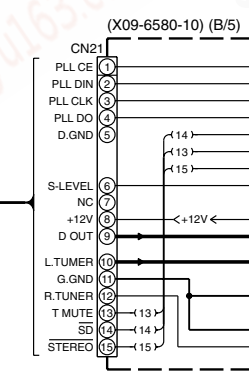
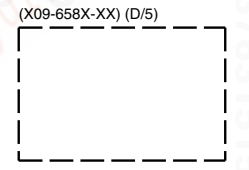
| | | | | | | | | | | | | | | | |
|-------------|-----|------|---------|-----------------------|---------------------|---------------|------|-------------------------------|------|------|-----------|-------------|-------------|--------|-------|
| K2-5 | L6 | Q313 | R13, 14 | R65,66,63,18, 603,604 | R79,80,129, 130,179 | R180, 200,202 | R303 | R304,358,359, 383,384,403,404 | R317 | R318 | R413, 414 | W1-4, 10-15 | W5-8, 20-23 | WH1, 4 | WH221 |
| S76-0045-15 | YES | NO | 47K | 1.5K | 390 | 4.7K | YES | 1 | 10K | 2.2K | 1.2K | NO | YES | YES | NO |
| S76-0098-05 | YES | NO | 47K | 1.5K | 430 | 5.1K | YES | 1 | 10K | 1.2K | 1.5K | NO | YES | YES | NO |

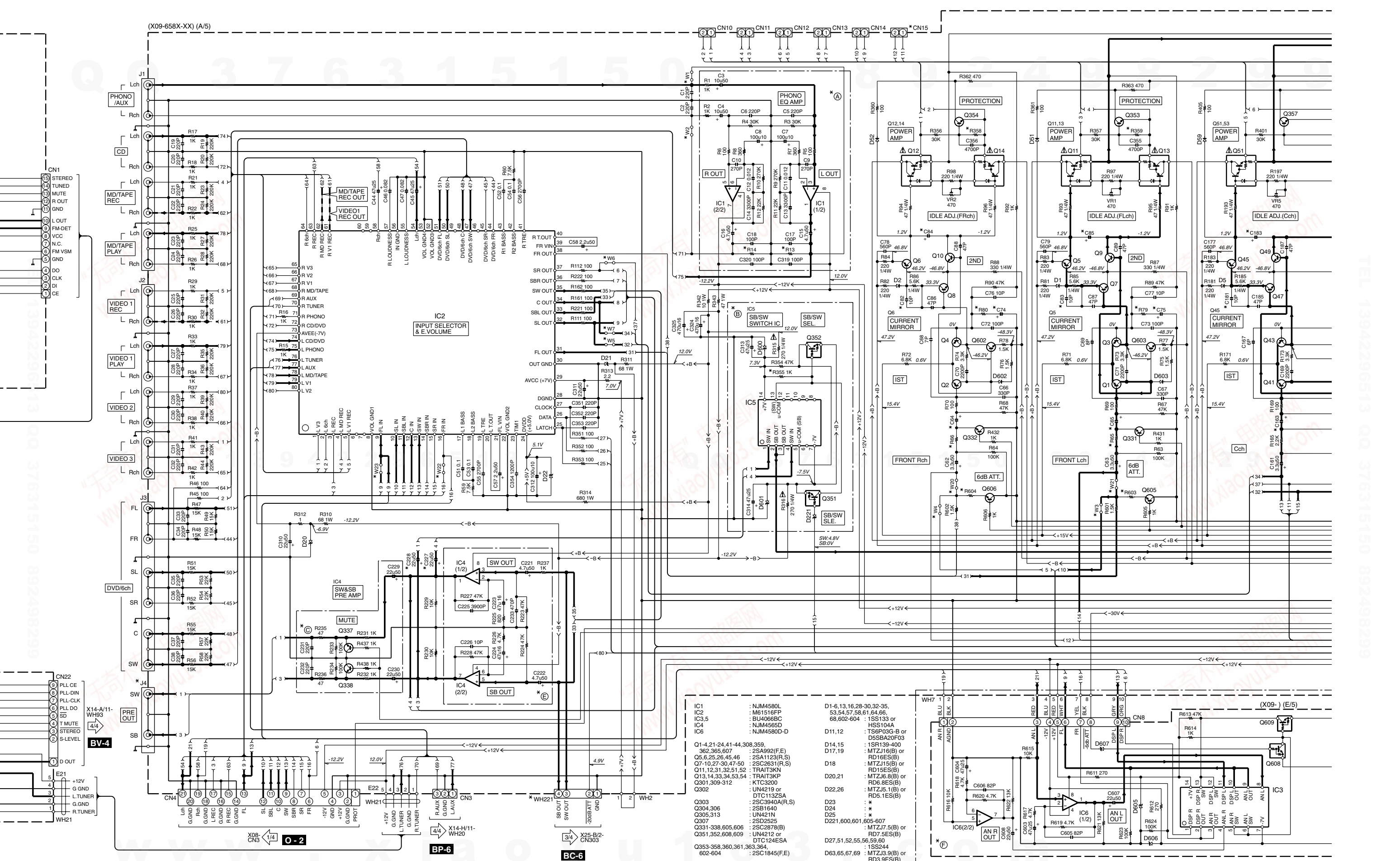
| | | | | | | | | | | | | | | |
|------|---------|-------------------------------|---------------------|-----------|------|------|------|------|---------------------------|-----------|-----------|-----------------------|----------|------------|
| Q313 | R13, 14 | R65,66,63,18, 413,414,603,604 | R79,80,129, 130,179 | R200, 202 | R303 | R304 | R317 | R318 | R358,359,383, 384,403,404 | R413, 414 | R603, 604 | W1,2,5-7, 10-15,20-23 | W3,4, 13 | WH1,4, 221 |
| NO | 47K | 1.5K | 430 | 5.1K | YES | 1 | 10K | 1.2K | NO | YES | YES | NO | NO | NO |



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 right. The measurement value may vary depending on the measuring instruments used or on the product. The value shown in () is actual reading measured in the AM mode.

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





| | | |
|---------------------------|-----------------|-------------------------|
| IC1 | : NJM4580L | D1-6,13,16,28-30,32-35, |
| IC2 | : M61516FP | 53,54,57,58,61,64,66, |
| IC3,5 | : BU4066BC | 68,602-604 |
| IC4 | : NJM4580D | D11,12 |
| IC6 | : NJM4580D-D | D14,15 |
| Q1-4,21-24,41-44,308,359, | | D17,19 |
| 362,365,607 | : 2SA992(F,E) | D18 |
| Q5,6,25,26,45,46 | : 2SA1123(R,S) | D20,21 |
| Q7-10,27-30,47-50 | : 2SC2631(R,S) | D22,26 |
| Q11,12,31,32,51,52 | : TRAIT3KN | |
| Q13,14,33,34,53,54 | : TRAIT3KP | |
| Q301,309-312 | : KTC3200 | |
| Q302 | : UN4219 or | |
| | DTC113ZSA | |
| Q303 | : 2SC3940A(R,S) | |
| Q304,306 | : 2SB1640 | |
| Q305,313 | : UN421N | |
| Q307 | : 2SD2525 | |
| Q317-338,605,606 | : 2SC2878(B) | |
| Q351,352,608,609 | : UN4212 or | |
| | DTC124ESA | |
| Q353-358,360,361,363,364, | | |
| 602-604 | : 2SC1845(F,E) | |
| | | D27,51,52,55,56,59,60 |
| | | D63,65,67,69 |

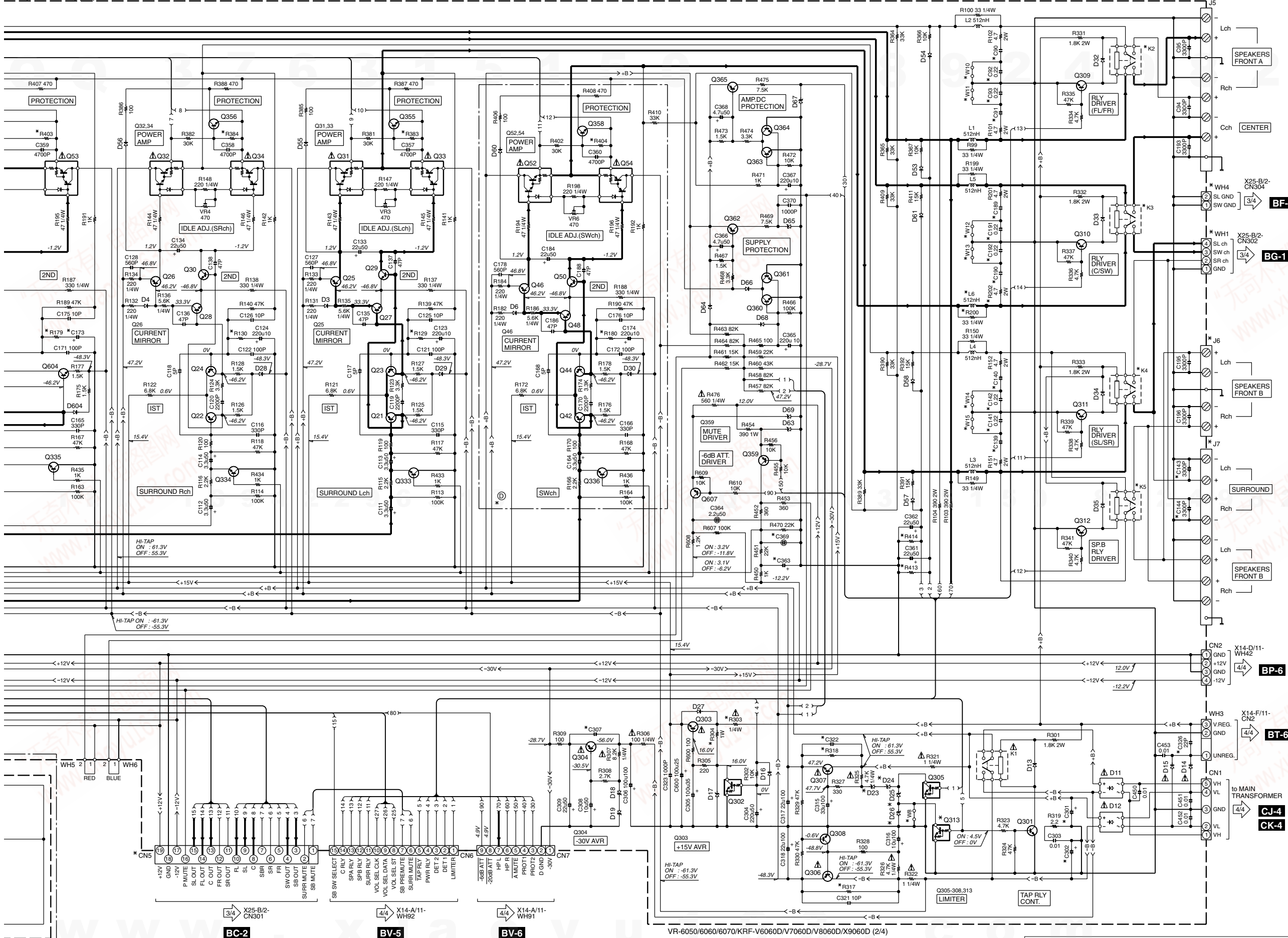
X14-A/11-WH93
BV-4

X08-CN3
O-2

X14-H/11-WH20
BP-6

X25-B/2-CN303
BC-6

X09-(E/5)



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.

KRF-V6060D/V7060D/V8060D/X9060D/VR-6050/6060/6070

VR-6060 (X25-6490-10)

| DESTINATION | UNIT | (A) | (C) | (D) | W5 |
|-------------|------|------|-----|-----|-----|
| COUNTRY | ABB. | No. | | | |
| U.S.A. | K | 0-10 | NO | YES | YES |
| CANADA | P | | | | |

VR-6070 (X25-6490-11)

| DESTINATION | UNIT | (A) | (C) | (D) | W5 |
|-------------|------|------|-----|-----|----|
| COUNTRY | ABB. | No. | | | |
| U.S.A. | K | 0-11 | YES | NO | |
| CANADA | P | | | | |

KRF-V8060D (X25-6492-71)

| DESTINATION | UNIT | (A) | (C) | (D) | W5 |
|-------------|------|------|-----|-----|----|
| COUNTRY | ABB. | No. | | | |
| U.S.A. | K | 0-10 | NO | NO | |
| CANADA | P | | | | |

KRF-V8060D-G (X25-6492-71)

| DESTINATION | UNIT | (A) | (C) | (D) | W5 |
|-------------|------|------|-----|-----|----|
| COUNTRY | ABB. | No. | | | |
| U.S.A. | K | 0-11 | NO | NO | |
| CANADA | P | | | | |

KRF-V8060D-S (X25-6492-71)

| DESTINATION | UNIT | (A) | (C) | (D) | W5 |
|-------------|------|------|-----|-----|----|
| COUNTRY | ABB. | No. | | | |
| U.S.A. | K | 0-11 | NO | NO | |
| CANADA | P | | | | |

KRF-X9060D (X25-6492-72)

| DESTINATION | UNIT | (A) | (C) | (D) | W5 |
|-------------|------|------|-----|-----|----|
| COUNTRY | ABB. | No. | | | |
| U.S.A. | K | 0-10 | YES | NO | NO |
| CANADA | P | | | | |

KRF-X9060D-G (X25-6492-72)

| DESTINATION | UNIT | (A) | (C) | (D) | W5 |
|-------------|------|------|-----|-----|----|
| COUNTRY | ABB. | No. | | | |
| U.S.A. | K | 0-11 | YES | NO | NO |
| CANADA | P | | | | |

KRF-X9060D-S (X25-6492-72)

| DESTINATION | UNIT | (A) | (C) | (D) | W5 |
|-------------|------|------|-----|-----|----|
| COUNTRY | ABB. | No. | | | |
| U.S.A. | K | 0-11 | YES | NO | NO |
| CANADA | P | | | | |

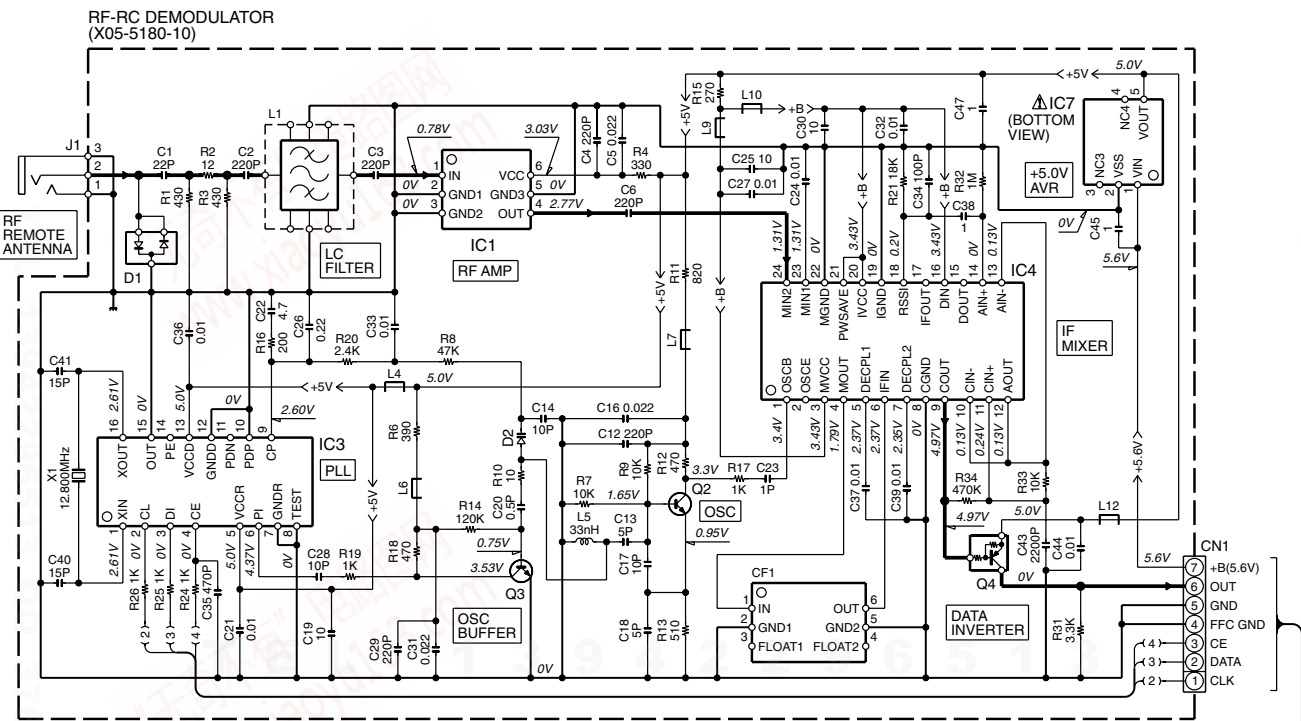
IC101 : NJM2284D
 IC102 : BA7666FS
 IC201 : BA05T
 IC202 : TC74HC00AP
 IC401,403 : NJM4580D-D
 IC402,404 : NJM4565D-D

Q101,201 : UN4212 or DTC124ESA
 Q202,203 : KTC3199(Y,GR) or 2SC2785(F,E) or 2SC1740S(Q,R)

Q204 : KTA1267(Y,GR) or 2SA1175(F,E) or 2SA933A(S,Q,R)

Q301-320,403-408,411,412 : 2SC2878(B)
 Q401,402,409 : DTA124ESA or UN4112

D201-206 : 1SS133 or HSS104A
 D401 : MTZJ3.9(B) or RD3.9ES(B)
 D402 : MTZJ5.1(B) or RD5.1ES(B)



RECEIVING FREQUENCY(MHz)/ VCO OSCILLATING FREQUENCY(MHz)/ TUNING VOLTAGE(V) TABLE

| RECEIVING FREQUENCY | VCO OSCILLATING FREQUENCY | TUNING VOLTAGE |
|---------------------|---------------------------|----------------|
| 309.5 | 298.8 | 2.38 ± 0.5 |
| 315.0 | 304.3 | 2.56 ± 0.5 |

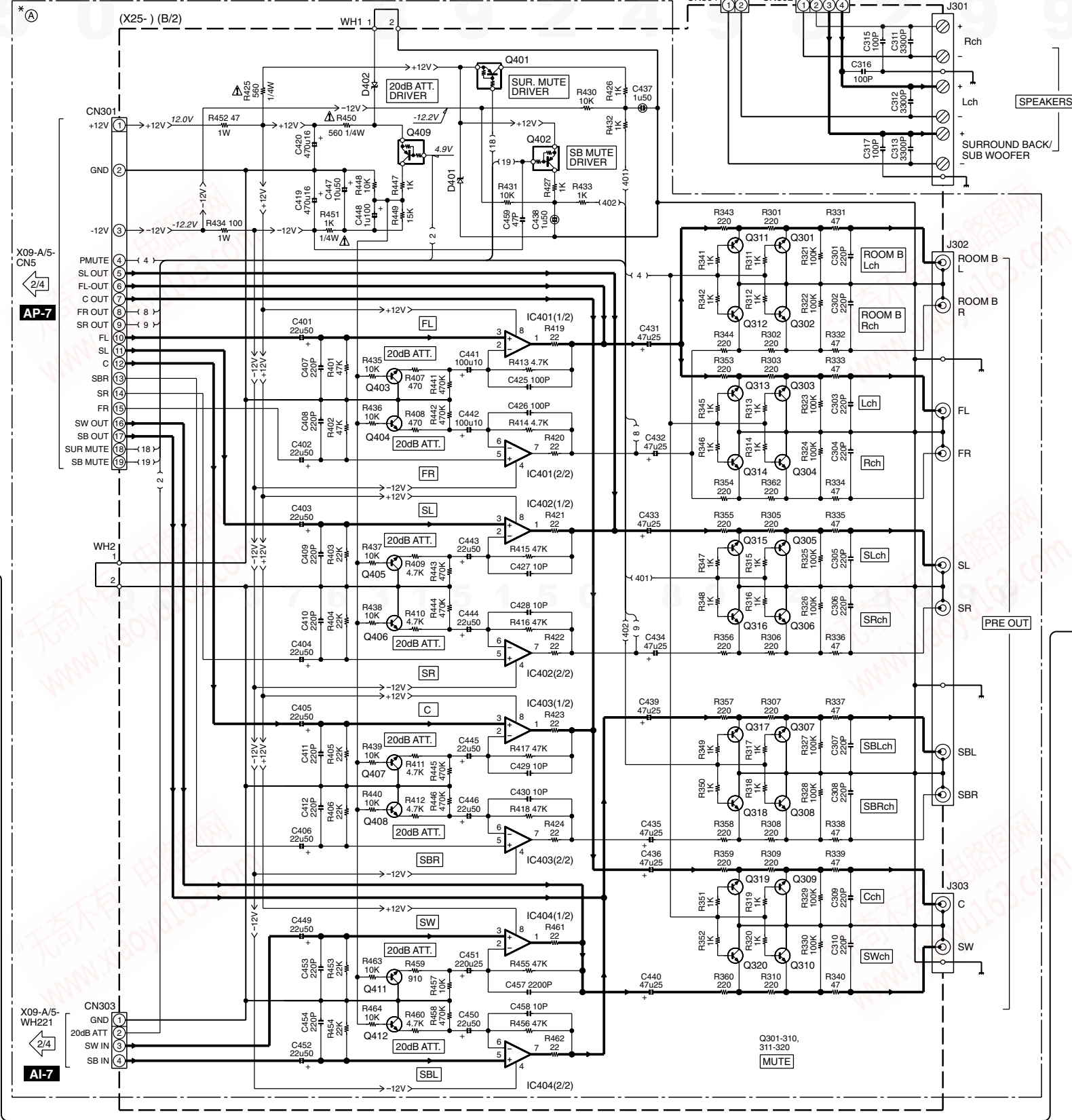
IC1 : UPC2748T-E3
 IC3 : LV2105V
 IC4 : TK14583V
 IC7 : XC6201P502MR

Q2,3 : 2SC5065(O, Y)
 Q4 : DTA124EUA
 D1 : 1SS302
 D2 : KV1832E

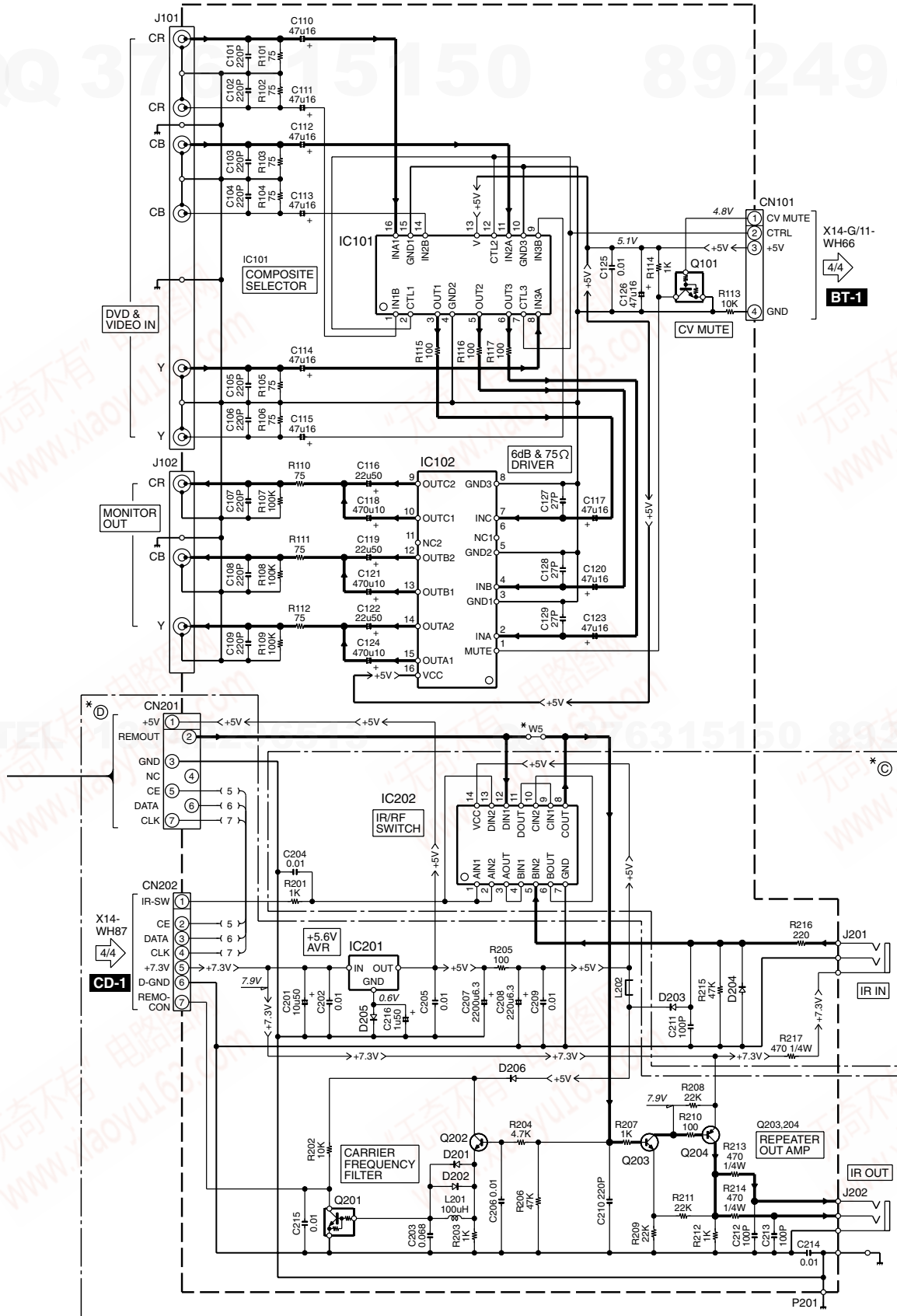
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, 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.

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

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



(X25-649X-XX) (A/2)

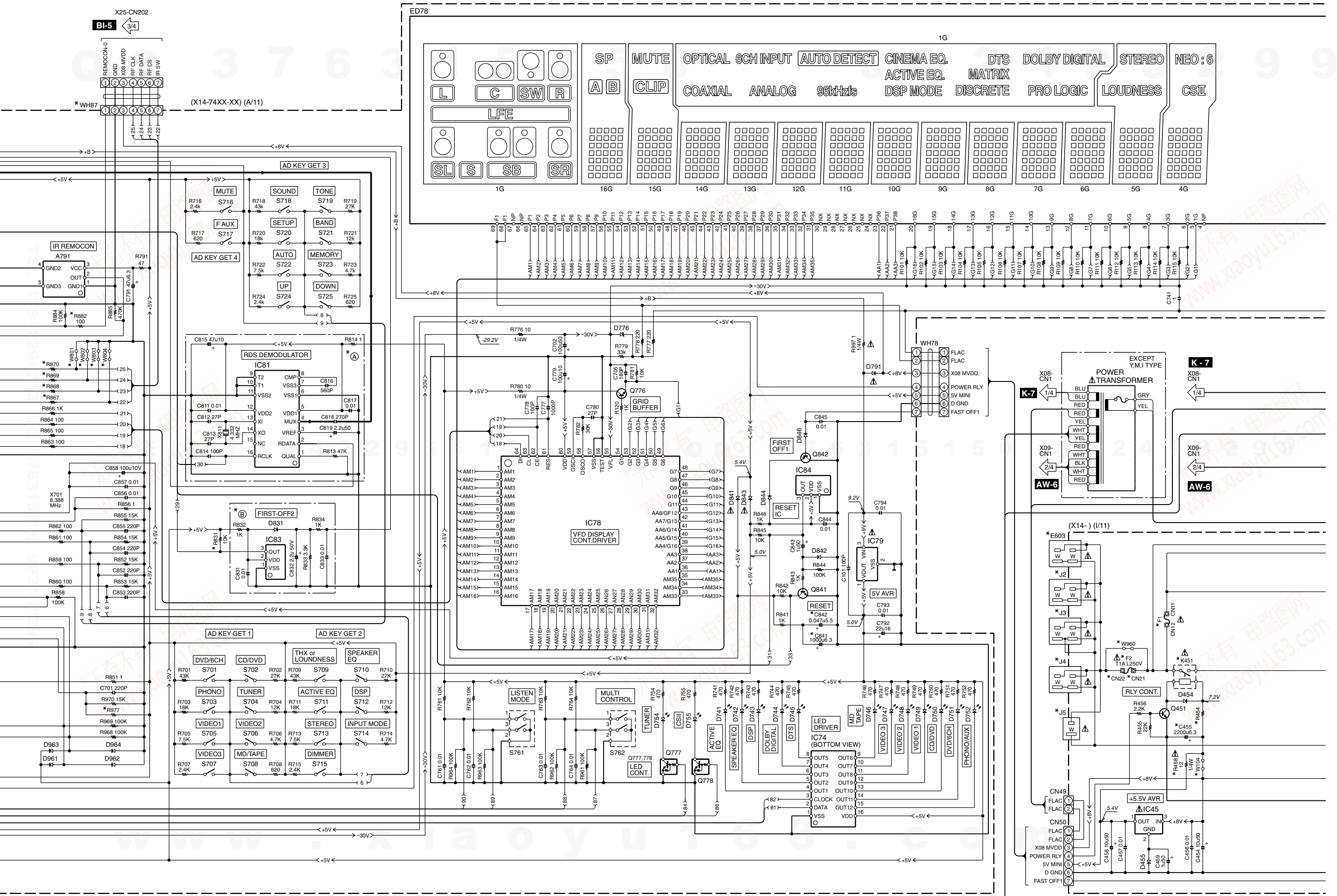


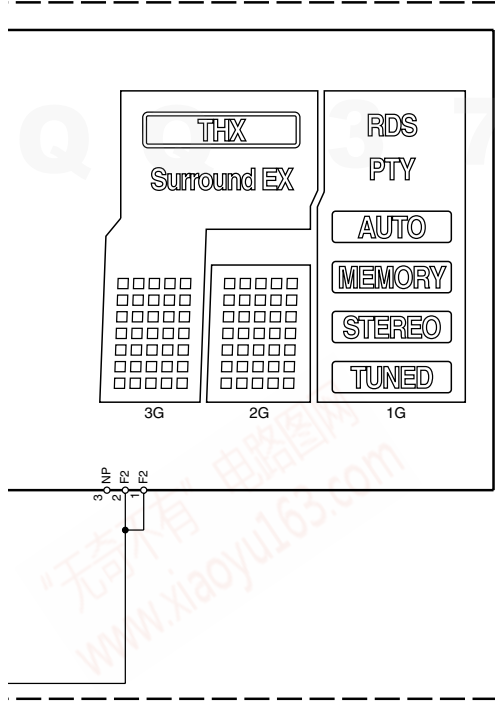
VR-6050/6060/6070/KRF-V6060D/V7060D/V8060D/X9060D (3/4)

KRF-V6060D/V7060D/V8060D/X9060D/VR-6050/6060/6070

Y05-4660-10

KENWOOD

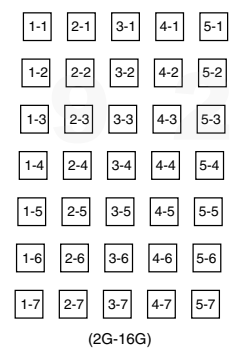




ANODE CONNECTION

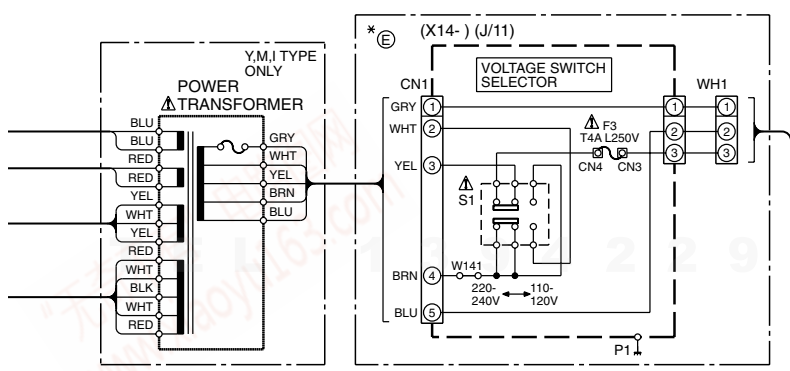
| | 1G | 2G | 3G | 4G | 5G | 6-14G | 15G | 16G |
|-----|-------|-----|-----|-----|-----|-------|-----|-----|
| P1 | L | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 | 1-1 |
| P2 | C | 2-1 | 2-1 | 2-1 | 2-1 | 2-1 | 2-1 | 2-1 |
| P3 | R | 3-1 | 3-1 | 3-1 | 3-1 | 3-1 | 3-1 | 3-1 |
| P4 | SR | 4-1 | 4-1 | 4-1 | 4-1 | 4-1 | 4-1 | 4-1 |
| P5 | SB | 5-1 | 5-1 | 5-1 | 5-1 | 5-1 | 5-1 | 5-1 |
| P6 | SL | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 | 1-2 |
| P7 | S | 2-2 | 2-2 | 2-2 | 2-2 | 2-2 | 2-2 | 2-2 |
| P8 | SW | 3-2 | 3-2 | 3-2 | 3-2 | 3-2 | 3-2 | 3-2 |
| P9 | LFE | 4-2 | 4-2 | 4-2 | 4-2 | 4-2 | 4-2 | 4-2 |
| P10 | (L) | 5-2 | 5-2 | 5-2 | 5-2 | 5-2 | 5-2 | 5-2 |
| P11 | (C) | 1-3 | 1-3 | 1-3 | 1-3 | 1-3 | 1-3 | 1-3 |
| P12 | (R) | 2-3 | 2-3 | 2-3 | 2-3 | 2-3 | 2-3 | 2-3 |
| P13 | (SR) | 3-3 | 3-3 | 3-3 | 3-3 | 3-3 | 3-3 | 3-3 |
| P14 | (SBR) | 4-3 | 4-3 | 4-3 | 4-3 | 4-3 | 4-3 | 4-3 |
| P15 | (SBL) | 5-3 | 5-3 | 5-3 | 5-3 | 5-3 | 5-3 | 5-3 |
| P16 | (SL) | 1-4 | 1-4 | 1-4 | 1-4 | 1-4 | 1-4 | 1-4 |
| P17 | (SW) | 2-4 | 2-4 | 2-4 | 2-4 | 2-4 | 2-4 | 2-4 |

| | | | | | | | | |
|-----|---------------|-----|-------------|-------|----------|-----|---------|-----|
| P18 | OPTICAL | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 |
| P19 | COAXIAL | 4-4 | 4-4 | 4-4 | 4-4 | 4-4 | 4-4 | 4-4 |
| P20 | CH INPUT | 5-4 | 5-4 | 5-4 | 5-4 | 5-4 | 5-4 | 5-4 |
| P21 | ANALOG | 1-5 | 1-5 | 1-5 | 1-5 | 1-5 | 1-5 | 1-5 |
| P22 | AUTO DETECT | 2-5 | 2-5 | 2-5 | 2-5 | 2-5 | 2-5 | 2-5 |
| P23 | MEMO | 3-5 | 3-5 | 3-5 | 3-5 | 3-5 | 3-5 | 3-5 |
| P24 | CINEMA EQ | 4-5 | 4-5 | 4-5 | 4-5 | 4-5 | 4-5 | 4-5 |
| P25 | ACTIVE EQ | 5-5 | 5-5 | 5-5 | 5-5 | 5-5 | 5-5 | 5-5 |
| P26 | DSP MODE | 1-6 | 1-6 | 1-6 | 1-6 | 1-6 | 1-6 | 1-6 |
| P27 | DTS | 2-6 | 2-6 | 2-6 | 2-6 | 2-6 | 2-6 | 2-6 |
| P28 | MATRIX | 3-6 | 3-6 | 3-6 | 3-6 | 3-6 | 3-6 | 3-6 |
| P29 | DISCRETE | 4-6 | 4-6 | 4-6 | 4-6 | 4-6 | 4-6 | 4-6 |
| P30 | DOLBY DIGITAL | 5-6 | 5-6 | 5-6 | 5-6 | 5-6 | 5-6 | 5-6 |
| P31 | PRO LOGIC | 1-7 | 1-7 | 1-7 | 1-7 | 1-7 | 1-7 | 1-7 |
| P32 | | 2-7 | 2-7 | 2-7 | 2-7 | 2-7 | 2-7 | 2-7 |
| P33 | RDS | 3-7 | 3-7 | 3-7 | 3-7 | 3-7 | 3-7 | 3-7 |
| P34 | PTY | 4-7 | 4-7 | 4-7 | 4-7 | 4-7 | 4-7 | 4-7 |
| P35 | AUTO | 5-7 | 5-7 | 5-7 | 5-7 | 5-7 | 5-7 | 5-7 |
| P36 | MEMORY | | THX | NEO:6 | LOUDNESS | | MUTE SP | |
| P37 | STEREO | | Surround EX | CSI | STEREO | | CLIP | A |
| P38 | TUNED | | | | | | | B |



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.

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.



VR-6050 (X14-742X-XX)

| DESTINATION | COUNTRY | ABB. | UNIT No. | A | B | C | D | E | F | G | C202,455,842,909 | C452 | C453 | C841 | CN21,22,48 | CN47 | E603 | F1 | F2 | IC90 | J2,66 | J3-5,66 | K451 | R121,458,831,835,836,882,902,906,914,977 | R451 | R454 | R457 | R867,870 | T1 | W121,801,804,950,960 | W951 | WH5,66,87 |
|-------------|---------|------|----------|---|---|---|---|---|---|---|------------------|------|----------|------|------------|------|------|----------|----|--------------|-------|---------|-------------|--|------|---------|------|----------|-------------|----------------------|------|-----------|
| U.S.A. | K | | 0-10 | | | | | | | | NO | | | NO | NO | NO | NO | 125V 10A | NO | MN101C49 GGH | YES | NO | S76-0107-05 | | 39K | 27 1/4W | YES | 100K | L07-2809-05 | YES | NO | NO |
| CANADA | P | | | | | | | | | | NO | 0.1 | 3300u 16 | YES | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | |

KRF-V6060D (X14-742X-XX)

| DESTINATION | COUNTRY | ABB. | UNIT No. | A | B | C | D | E | F | G | C202,841 | C452 | C453 | C455,909 | C842 | CN21,22 | CN47 | CN48 | E603 | F1 | F2 | IC90 | J2,66 | J3 | J4,5,66 | J66 | K451 | R121,457,882 | R451 | R454 | R458,831,835,836,882,906 | R867,870 | R902 | R914 | R977 | T1 | W121,951,960 | W801-804,950 | WH5 | WH66,87 |
|-------------|---------|------|----------|-----|---|---|---|---|---|---|----------|-------|----------|----------|------|---------|------|------|------|----|------------|------|-------|----|---------|-----|-------------|--------------|------|---------|--------------------------|----------|------|------|-------------|-------------|--------------|--------------|-----|---------|
| PX | Y | 2-91 | NO | YES | | | | | | | NO | 0.068 | 3300u 25 | YES | YES | YES | NO | NO | NO | NO | 250V T4A L | YES | NO | NO | NO | NO | S76-0110-05 | NO | 18K | 15 1/4W | YES | 100K | YES | NO | 12K | L07-2805-05 | NO | YES | YES | NO |
| EUROPE | E | 2-71 | YES | NO | | | | | | | NO | 0.039 | 3300u 25 | NO | NO | NO | NO | NO | NO | NO | 250V T4A L | NO | NO | NO | NO | NO | S76-0110-05 | NO | 130K | 27 1/4W | NO | NO | YES | 27K | L07-2761-05 | NO | YES | YES | NO | |

KRF-V6060D-S (X14-742X-XX)

| DESTINATION | COUNTRY | ABB. | UNIT No. | A | B | C | D | E | F | G | C202,841 | C452 | C453 | C455,909 | C842 | CN21,22 | CN47 | CN48 | E603 | F1 | F2 | IC90 | J2,66 | J3 | J4 | J5 | J66 | K451 | R121,457,882 | R451 | R454 | R458,831,835,836,882,906 | R867,870 | R831,835,906 | R867,870 | R902 | R914 | R977 | T1 | W121,951,960 | W801-804,950 | WH5 | WH66,87 |
|----------------|---------|------|----------|-----|---|---|---|---|---|---|----------|-------|----------|----------|------|---------|------|------|------|----|------------|------|-------|----|----|----|-------------|------|--------------|---------|------|--------------------------|----------|--------------|----------|------|------|-------------|----|--------------|--------------|-----|---------|
| GENERAL MARKET | M | 0-21 | NO | YES | | | | | | | NO | 0.068 | 3300u 25 | YES | YES | NO | NO | NO | NO | NO | 250V T4A L | YES | NO | NO | NO | NO | S76-0110-05 | NO | 18K | 15 1/4W | YES | NO | NO | 100K | YES | NO | 12K | L07-2805-05 | NO | YES | YES | NO | |
| KOREA | H | 4-11 | NO | | | | | | | | NO | 0.047 | 3300u 25 | NO | NO | NO | NO | NO | NO | NO | 250V T4A L | NO | NO | NO | NO | NO | S76-0110-05 | NO | 150K | 27 1/4W | NO | NO | NO | 100K | YES | NO | 4.7K | L07-2758-05 | NO | YES | YES | NO | |
| AUSTRALIA | X | 0-71 | NO | | | | | | | | NO | 0.047 | 3300u 25 | NO | NO | NO | NO | NO | NO | NO | 250V T4A L | NO | NO | NO | NO | NO | S76-0110-05 | NO | 130K | 27 1/4W | NO | NO | NO | 100K | YES | NO | 4.7K | L07-2761-05 | NO | YES | YES | NO | |
| U.K. | T | 0-51 | NO | | | | | | | | NO | 0.039 | 3300u 25 | NO | NO | NO | NO | NO | NO | NO | 250V T4A L | NO | NO | NO | NO | NO | S76-0110-05 | NO | 130K | 27 1/4W | NO | NO | NO | 100K | YES | NO | 4.7K | L07-2761-05 | NO | YES | YES | NO | |
| EUROPE | E | 2-71 | YES | NO | | | | | | | NO | 0.039 | 3300u 25 | NO | NO | NO | NO | NO | NO | NO | 250V T4A L | NO | NO | NO | NO | NO | S76-0110-05 | NO | 130K | 27 1/4W | NO | NO | NO | 100K | YES | NO | 4.7K | L07-2761-05 | NO | YES | YES | NO | |

KRF-V7060D-S (X14-7422-71)

| DESTINATION | COUNTRY | ABB. | UNIT No. | A | D | C | B | E | F | G | C202,455,841,909 | C452 | C453 | C842 | CN21,22,47 | CN48 | E603 | F1 | F2 | IC90 | J2,4,5,66 | J3,66 | K451 | R121,457,458,831,835,836,882,906 | R451 | R454 | R867,870 | R902,914 | R977 | T1 | W121,951,960 | W801-804,950 | WH5 | WH66,87 | |
|-------------|---------|------|----------|---|----|---|---|---|---|---|------------------|-------|----------|------|------------|------|------|----|----|------------|-----------|-------|------|----------------------------------|------|------|----------|----------|------|-----|--------------|--------------|-----|---------|----|
| EUROPE | E | 2-71 | YES | | NO | | | | | | NO | 0.039 | 3300u 25 | YES | YES | NO | NO | NO | NO | 250V T4A L | YES | NO | NO | S76-0110-05 | NO | 130K | 27 1/4W | 100K | YES | 27K | L07-2761-05 | NO | YES | YES | NO |

VR-6070 (X14-7430-11)

| DESTINATION | COUNTRY | ABB. | UNIT No. | A | B | D | E | C | F | G | C202,455,842,909 | C452 | C453 | C841 | CN21,22,48 | CN47 | E603 | F1 | F2 | IC90 | J2,66 | J3-5,66 | K451 | R121,457,882 | R451 | R454 | R458,831,835,836,882,906 | R867,870 | T1 | W121,951,960 | W801-804,950,951 | WH5 | WH66,87 | |
|-------------|---------|------|----------|---|---|---|---|-----|---|---|------------------|------|----------|------|------------|------|------|----|----|----------|-------|---------|------|--------------|------|------|--------------------------|----------|-----|--------------|------------------|-----|---------|-----|
| U.S.A. | K | | 0-11 | | | | | YES | | | NO | 0.1 | 3300u 16 | YES | NO | NO | NO | NO | NO | 125V 10A | NO | NO | NO | S76-0107-05 | YES | 39K | 27 1/4W | NO | 100 | L07-2809-05 | YES | NO | NO | YES |
| CANADA | P | | | | | | | | | | NO | 0.1 | 3300u 16 | YES | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | NO | YES |

KRF-X9060D (X14-7432-XX)

| DESTINATION | COUNTRY | ABB. | UNIT No. | A | B | E | C | D | F | G | C202,841 | C452 | C453 | C455,909 | C842 | CN21,22 | CN47 | CN48 | E603 | F1 | F2 | IC90 | J2,66 | J3 | J4,5,66 | J66 | K451 | R121,902 | R451 | R454 | R457,882 | R458,831,835,836,882,906 | R867,870 | R914 | R977 | T1 | W121,950,951,960 | W801-804,950 | WH5,66 | WH87 |
|-------------|---------|------|----------|-----|---|---|---|---|-----|---|----------|-------|----------|----------|------|---------|------|------|------|----|------------|------|-------|----|---------|-----|-------------|----------|------|---------|----------|--------------------------|----------|------|-------------|-------------|------------------|--------------|--------|------|
| PX | Y | 2-92 | NO | YES | | | | | YES | | NO | 0.068 | 3300u 25 | YES | YES | YES | NO | NO | NO | NO | 250V T4A L | YES | NO | NO | NO | NO | S76-0110-05 | YES | 18K | 15 1/4W | NO | YES | 100K | NO | 12K | L07-2805-05 | NO | YES | YES | NO |
| EUROPE | E | 2-72 | YES | NO | | | | | | | NO | 0.039 | 3300u 25 | NO | NO | NO | NO | NO | NO | NO | 250V T4A L | NO | NO | NO | NO | NO | S76-0110-05 | NO | 130K | 27 1/4W | NO | NO | YES | 27K | L07-2761-05 | NO | YES | YES | NO | |

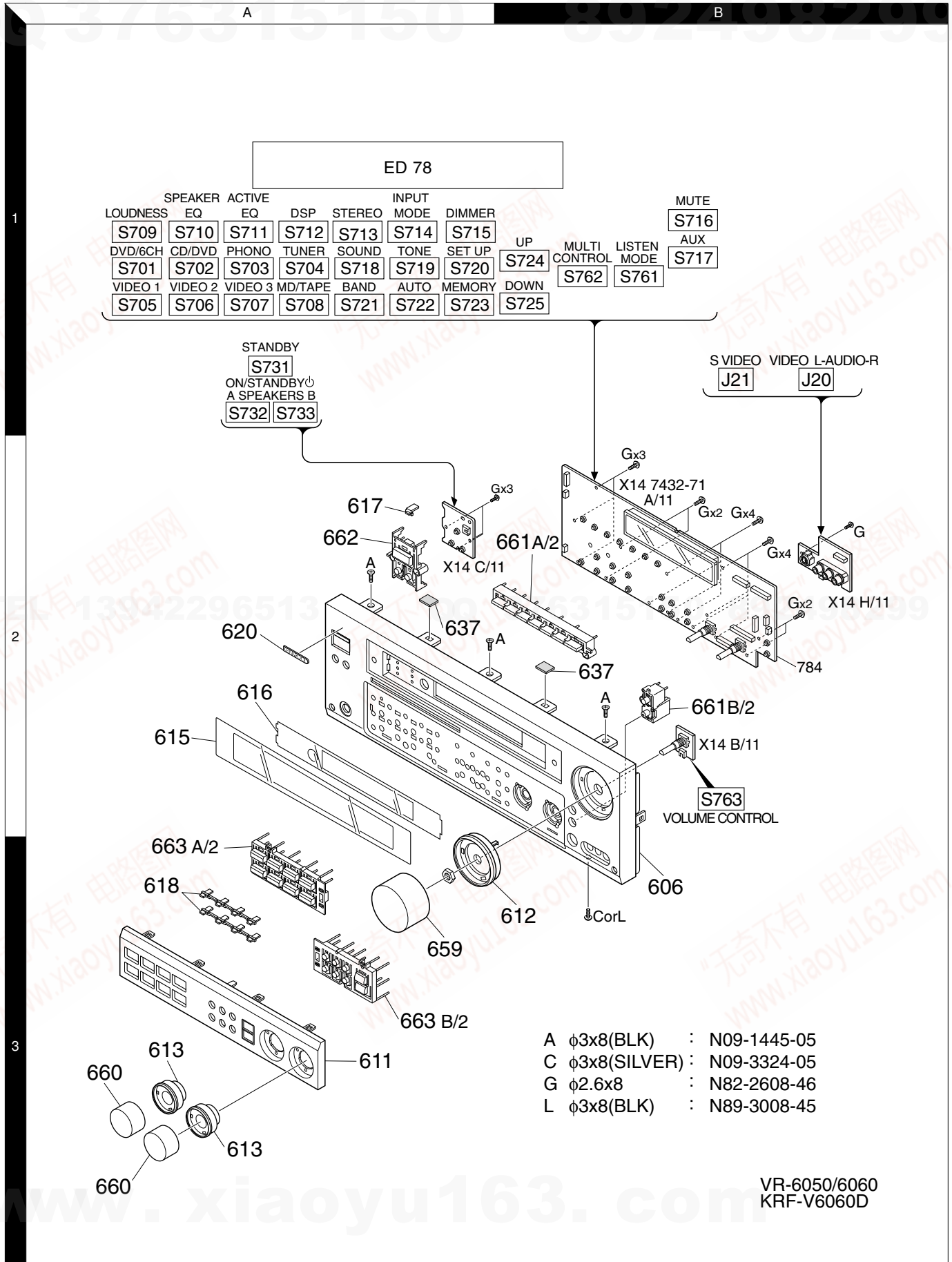
KRF-X9060D-G (X14-74XX-XX)

| DESTINATION | COUNTRY | ABB. | UNIT No. | A | B | E | C | D | F | G | C202,841 | C452 | C453 | C455,909 | C842 | CN21,22 | CN47 | CN48 | E603 | F1 | F2 | IC90 | J2,4,5,66 | J3,66 | J66 | K451 | R121,831,835,902,906 | R451 | R454 | R457,882,914 | R458,831,835,906 | R867,870 | R977 | T1 | W121,950,951,960 | W801-804,950 | WH5,66 | WH87 | | | |
|----------------|---------|-------|----------|---|---|-----|---|---|---|---|----------|-------|----------|----------|------|---------|------|------|------|----|------------|------|-----------|-------|-----|------|----------------------|------|------|--------------|------------------|----------|------|------|------------------|--------------|-------------|------|-----|-----|----|
| GENERAL MARKET | M | 30-22 | NO | | | YES | | | | | NO | 0.068 | 3300u 25 | YES | YES | NO | NO | NO | NO | NO | 250V T4A L | YES | NO | NO | NO | NO | S76-0110-05 | YES | 18K | 15 1/4W | NO | YES | 100K | NO | 12K | L07-2805-05 | NO | YES | YES | NO | |
| KOREA | H | 24-12 | NO | | | NO | | | | | NO | 0.047 | 3300u 25 | NO | NO | NO | NO | NO | NO | NO | 250V T4A L | NO | NO | NO | NO | NO | S76-0110-05 | NO | 150K | 27 1/4W | NO | NO | NO | 100K | NO | 4.7K | L07-2758-05 | NO | YES | YES | NO |

KRF-X9060D-S (X14-743X-XX)

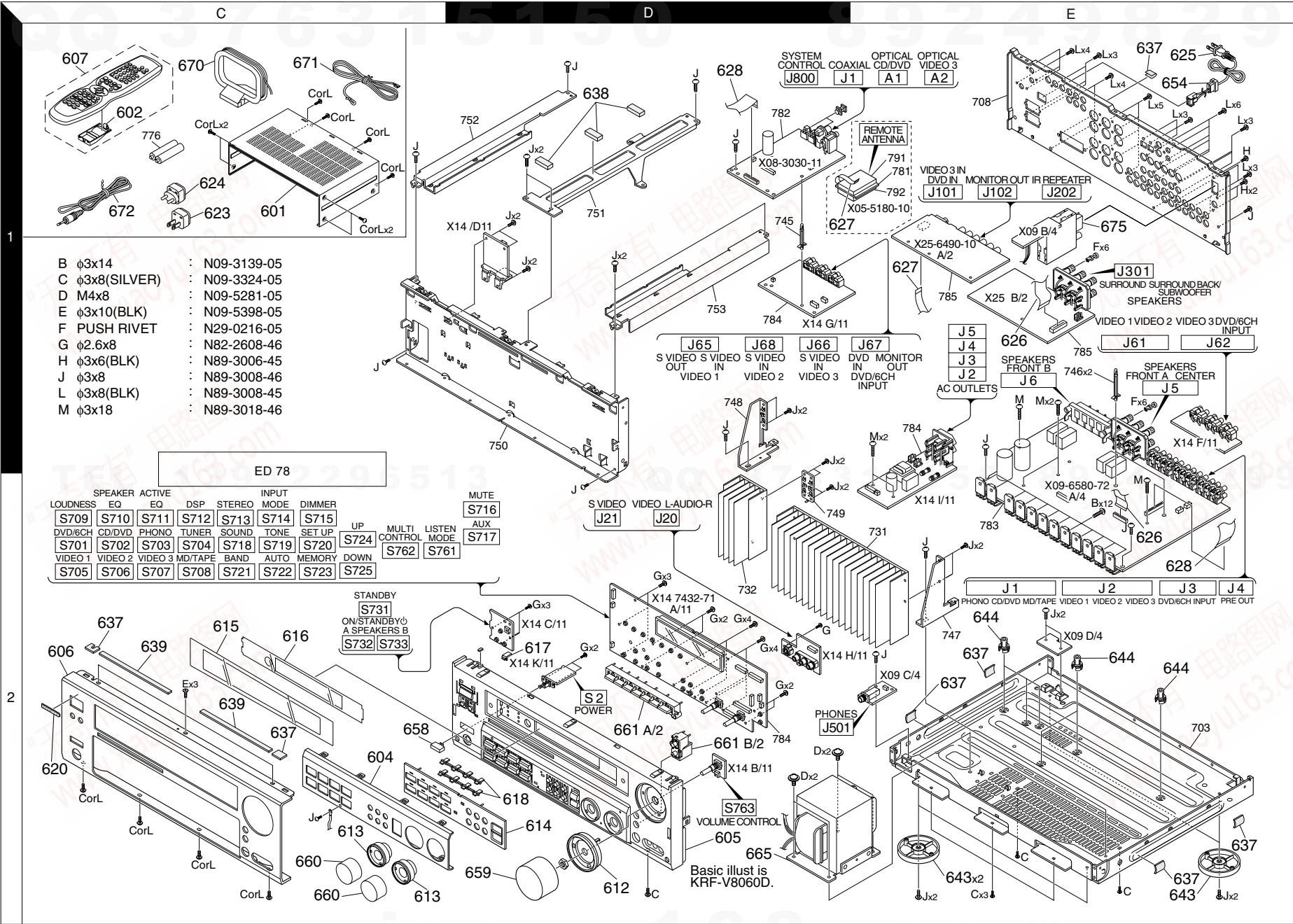
| DESTINATION | COUNTRY | ABB. | UNIT No. | A | B | E | C | D | F | G | C202,455,841,909 | C452 | C453 | C842 | CN21,22,47 | CN48 | E603 | F1 | F2 | IC90 | J2,66 | J3 | J4 | J5 | J66 | K451 | R121,457,458,831,835,836,882,906 | R451 | R454 | R457,458,835,906 | R831,835,906 | R867,870 | R914 | R977 | T1 | W121,950,951,960 | W801-804,950 | WH5,66 | WH87 | |
|-------------|---------|------|----------|----|---|-----|---|---|---|---|------------------|-------|----------|------|------------|------|------|----|----|------------|------------|----|----|----|-----|------|----------------------------------|------|------|------------------|--------------|----------|------|------|------|------------------|--------------|--------|------|----|
| AUSTRALIA | X | 0-72 | NO | | | YES | | | | | NO | 0.047 | 3300u 25 | YES | YES | NO | NO | NO | NO | 250V T4A L | YES | NO | NO | NO | NO | NO | S76-0110-05 | YES | 150K | 27 1/4W | NO | NO | 100K | NO | 4.7K | L07-2758-05 | NO | YES | YES | NO |
| EUROPE | E | 2-72 | YES | NO | | YES | | | | | NO | 0.039 | 3300u 25 | NO | NO | NO | NO | NO | NO | NO | 250V T4A L | NO | NO | NO | NO | NO | S76-0110-05 | NO | 130K | 27 1/4W | NO | NO | 10 | | | | | | | |

EXPLODED VIEW



EXPLODED VIEW

Parts with exploded numbers larger than 700 are not supplied.



* 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.

①

* 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.

②

| Ref. No | Add-ress | New Parts | Parts No. | Description | Desti-nation | Re-marks |
|---|----------|-----------|-------------|------------------------------|--------------|----------|
| VR-6050, KRF-V6060D/KRF-V6060D-S | | | | | | |
| 601 | 1C | * | A01-3840-01 | METALLIC CABINET | KPYE | |
| 601 | 1C | * | A01-3841-01 | METALLIC CABINET | MIH | |
| 601 | 1C | * | A01-3841-01 | METALLIC CABINET | XTES | |
| 602 | 1C | * | A09-1258-08 | BATTERY COVER | | |
| 606 | 3B | * | A60-2169-01 | PANEL | KP | |
| 606 | 3B | * | A60-2170-01 | PANEL | YE | |
| 606 | 3B | * | A60-2171-01 | PANEL | MIH | |
| 606 | 3B | * | A60-2171-01 | PANEL | XTES | |
| 607 | 1C | * | A70-1554-05 | REMOTE CONTROLLER ASSY | TEES | |
| 607 | 1C | * | A70-1555-05 | REMOTE CONTROLLER ASSY | KPY | |
| 607 | 1C | * | A70-1555-05 | REMOTE CONTROLLER ASSY | MIHX | |
| 611 | 3A | * | B07-2596-12 | ESCUTCHEON | E | |
| 611 | 3A | * | B07-2597-12 | ESCUTCHEON | TES | |
| 611 | 3A | * | B07-2598-12 | ESCUTCHEON | KPY | |
| 611 | 3A | * | B07-2599-12 | ESCUTCHEON | MIHX | |
| 612 | 3B | * | B07-2606-03 | ESCUTCHEON | KPYE | |
| 612 | 3B | * | B07-2607-03 | ESCUTCHEON | MIH | |
| 612 | 3B | * | B07-2607-03 | ESCUTCHEON | XTES | |
| 613 | 3A | * | B07-2608-03 | ESCUTCHEON | KPYE | |
| 613 | 3A | * | B07-2609-03 | ESCUTCHEON | MIH | |
| 613 | 3A | * | B07-2609-03 | ESCUTCHEON | XTES | |
| 615 | 2A | * | B10-3792-02 | FRONT GLASS | KP | |
| 615 | 2A | * | B10-3793-02 | FRONT GLASS | YMIHX | |
| 615 | 2A | * | B10-3794-02 | FRONT GLASS | TEES | |
| 616 | 2A | * | B11-1544-03 | COLOR FILTER | | |
| 617 | 2A | * | B12-0441-04 | INDICATOR | | |
| 618 | 3A | * | B12-0442-04 | INDICATOR | | |
| 620 | 2A | * | B43-0314-04 | KENWOOD BADGE | | |
| - | - | - | B46-0096-53 | WARRANTY CARD | X | |
| - | - | - | B46-0310-03 | WARRANTY CARD | TEES | |
| - | - | - | B46-0328-03 | WARRANTY CARD | Y | |
| - | - | - | B46-0330-03 | WARRANTY CARD | K | |
| - | - | - | B46-0347-03 | WARRANTY CARD | P | |
| - | - | * | B46-0365-04 | QUESTIONNAIRE CARD | K | |
| - | - | - | B58-0513-04 | CAUTION CARD (PRESET220-240) | Y | |
| - | - | - | B58-0945-03 | CAUTION CARD | T | |
| - | - | - | B58-0964-13 | CAUTION CARD (UL) | KY | |
| - | - | - | B58-0965-13 | CAUTION CARD (T,XtypePL) | XT | |
| - | - | - | B58-0966-13 | CAUTION CARD (ELMtypePL) | ES | |
| - | - | - | B58-0966-13 | CAUTION CARD (ELMtypePL) | MIE | |
| - | - | - | B58-0967-03 | CAUTION CARD (PtypePL) | P | |
| - | - | * | B59-1104-00 | SERVICE DIRECTORY | Y | |
| - | - | * | B60-5192-10 | INST MANUAL (EN) | KPYMIX | |
| - | - | * | B60-5192-10 | INST MANUAL (EN) | T | |
| - | - | * | B60-5193-00 | INST MANUAL (FR) | P | |
| - | - | * | B60-5194-00 | INST MANUAL (ES/FR/GE/NE/IT) | EES | |
| - | - | * | B60-5195-00 | INST MANUAL (ES/TC) | MI | |
| △ 623 | 1C | | E03-0382-05 | AC PLUG ADAPTER(WA-6) | M | |
| △ 624 | 1C | | E03-0383-05 | AC PLUG ADAPTER(WA-9C) | M | |
| △ 625 | 1E | | E30-2605-05 | AC POWER CORD | Y | |
| △ 625 | 1E | | E30-2717-05 | AC POWER CORD | X | |
| △ 625 | 1E | | E30-2721-05 | AC POWER CORD | MIT | |

L : Scandinavia K : USA P : Canada R : Mexico C : China I : Malaysia
Y : PX(Far East,Hawaii) T : England E : Europe G : Germany V : China(Shanghai) ES : KRF-V6060D-S(Etype)
Y : AAFES(Europe) X : Australia Q : Russia H : Korea M : Other Areas △ indicates safety critical components.

| Ref. No | Add-ress | New Parts | Parts No. | Description | Desti-nation | Re-marks |
|---------|----------|-----------|-------------|-------------------------------|--------------|----------|
| △ 625 | 1E | | E30-2941-05 | AC POWER CORD | KP | |
| △ 625 | 1E | | E30-2942-05 | AC POWER CORD | EES | |
| △ 625 | 1E | | E30-2950-05 | AC POWER CORD | H | |
| △ 625 | 1D,2E | * | E35-3216-05 | FLAT CABLE | | |
| 637 | 2C,2E | * | G11-2885-04 | CUSHION | | |
| 638 | 1D | * | G11-2886-04 | CUSHION | | |
| - | - | * | H10-7800-02 | POLYSTYRENE FOAMED FIXTURE R | | |
| - | - | * | H10-7801-02 | POLYSTYRENE FOAMED FIXTURE L | | |
| - | - | * | H25-0232-04 | PROTECTION BAG (235X350X0.03) | | |
| - | - | * | H25-0391-04 | PROTECTION BAG | | |
| - | - | * | H50-4369-04 | ITEM CARTON CASE | KP | |
| - | - | * | H50-4370-04 | ITEM CARTON CASE | Y | |
| - | - | * | H50-4371-04 | ITEM CARTON CASE | MIH | |
| - | - | * | H50-4372-04 | ITEM CARTON CASE | X | |
| - | - | * | H50-4373-04 | ITEM CARTON CASE | T | |
| - | - | * | H50-4374-04 | ITEM CARTON CASE | E | |
| - | - | * | H50-4375-04 | ITEM CARTON CASE | ES | |
| 643 | 2E | * | J02-1532-03 | FOOT | | |
| 644 | 2E | * | J19-3751-04 | UNIT HOLDER | | |
| △ 654 | 1E | * | J42-0349-05 | POWER CORD BUSHING | | |
| - | - | * | J61-0307-05 | WIRE BAND | | |
| 658 | 2C | * | K27-2384-04 | KNOB (BUTTON) POWER | YE | |
| 658 | 2C | * | K27-2481-04 | KNOB (BUTTON) POWER | MIH | |
| 658 | 2C | * | K27-2481-04 | KNOB (BUTTON) POWER | XTES | |
| 659 | 3A | * | K29-8103-04 | KNOB VOLUME | KPYE | |
| 659 | 3A | * | K29-8104-04 | KNOB VOLUME | MIH | |
| 659 | 3A | * | K29-8104-04 | KNOB VOLUME | XTES | |
| 660 | 3A | * | K29-8105-04 | KNOB MULTI/LISTEN | KPYE | |
| 660 | 3A | * | K29-8106-04 | KNOB MULTI/LISTEN | MIH | |
| 660 | 3A | * | K29-8106-04 | KNOB MULTI/LISTEN | XTES | |
| 661 | 2B | * | K29-8136-03 | KNOB ASSY | KPYE | |
| 661 | 2B | * | K29-8137-03 | KNOB ASSY | MIH | |
| 661 | 2B | * | K29-8137-03 | KNOB ASSY | XTES | |
| 662 | 2A | * | K29-8107-02 | KNOB ON/STANDBY | KPYE | |
| 662 | 2A | * | K29-8108-02 | KNOB ON/STANDBY | MIH | |
| 662 | 2A | * | K29-8108-02 | KNOB ON/STANDBY | XTES | |
| 663 | 3A | * | K29-8111-02 | KNOB VIDEO1-SETUP-2 | KPYE | |
| 663 | 3A | * | K29-8112-02 | KNOB VIDEO1-SETUP-2 | MIH | |
| 663 | 3A | * | K29-8112-02 | KNOB VIDEO1-SETUP-2 | XTES | |
| △ 665 | 2D | * | L07-3138-05 | POWER TRANSFORMER | KP | |
| △ 665 | 2D | * | L07-3139-05 | POWER TRANSFORMER | YMI | |
| △ 665 | 2D | * | L07-3140-05 | POWER TRANSFORMER | HX | |
| △ 665 | 2D | * | L07-3141-05 | POWER TRANSFORMER | TEES | |
| 670 | 1C | | T90-0852-05 | LOOP ANTENNA | | |
| 671 | 1C | | T90-0877-05 | LEAD WIRE ANTENNA | | |
| 675 | 1E | * | W02-2893-05 | TUNER ASSY | KP | |
| 675 | 1E | * | W02-2894-05 | TUNER ASSY | KP | |
| 675 | 1E | * | W02-2895-05 | TUNER ASSY | YMIHX | |
| 675 | 1E | * | W02-2896-05 | TUNER ASSY | TEES | |
| 675 | 1E | * | W02-2897-05 | TUNER ASSY | TEES | |
| 675 | 1E | * | W02-2906-05 | TUNER ASSY | KP | |

L : Scandinavia K : USA P : Canada R : Mexico C : China I : Malaysia
Y : PX(Far East,Hawaii) T : England E : Europe G : Germany V : China(Shanghai) ES : KRF-V6060D-S(Etype)
Y : AAFES(Europe) X : Australia Q : Russia H : Korea M : Other Areas △ indicates safety critical components.

* New Parts

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

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

3

| Ref. No | Address | New Parts | Parts No. | Description | Destination | Remarks |
|----------------------------|---------|-----------|-------------|-------------------------------|-------------|---------|
| KRF-V7060D/V7060D-S | | | | | | |
| 601 | 1C | * | A01-3842-01 | METALLIC CABINET | E | |
| 601 | 1C | * | A01-3843-01 | METALLIC CABINET | ES | |
| 602 | 1C | * | A09-1258-08 | BATTERY COVER | | |
| 604 | 2C | * | A21-3982-12 | DRESSING PANEL | E | |
| 604 | 2C | * | A21-3983-12 | DRESSING PANEL | ES | |
| 605 | 2D | * | A22-1873-01 | SUB PANEL ASSY | E | |
| 605 | 2D | * | A22-1874-01 | SUB PANEL ASSY | ES | |
| 606 | 2C | * | A60-2181-02 | PANEL | E | |
| 606 | 2C | * | A60-2182-12 | PANEL | ES | |
| 607 | 1C | * | A70-1554-05 | REMOTE CONTROLLER ASSY | E | |
| 612 | 2D | * | B07-2606-03 | ESCUTCHEON | E | |
| 612 | 2D | * | B07-2607-03 | ESCUTCHEON | ES | |
| 613 | 2C | * | B07-2608-03 | ESCUTCHEON | E | |
| 613 | 2C | * | B07-2609-03 | ESCUTCHEON | ES | |
| 614 | 2D | * | B07-2619-13 | ESCUTCHEON | E | |
| 614 | 2D | * | B07-2620-13 | ESCUTCHEON | ES | |
| 615 | 2C | * | B10-3791-02 | FRONT GLASS | | |
| 616 | 2C | * | B11-1544-03 | COLOR FILTER | | |
| 617 | 2D | * | B12-0440-04 | INDICATOR | | |
| 618 | 2D | * | B12-0442-04 | INDICATOR | | |
| 620 | 2C | * | B43-0314-04 | KENWOOD BADGE | | |
| - | - | * | B46-0310-03 | WARRANTY CARD | | |
| - | - | * | B58-0966-13 | CAUTION CARD (ELMtypePL) | | |
| - | - | * | B60-5194-00 | INST MANUAL (ES/FR/GE/NE/IT) | | |
| △ 625 | 1E | * | E30-2942-05 | AC POWER CORD | | |
| 628 | 1D,1E | * | E35-3216-05 | FLAT CABLE | | |
| 637 | 2C,2E | * | G11-2885-04 | CUSHION | | |
| 638 | 1D | * | G11-2886-04 | CUSHION | | |
| 639 | 2C | * | G11-2887-04 | CUSHION | | |
| - | - | * | H10-7800-02 | POLYSTYRENE FOAMED FIXTURE R | | |
| - | - | * | H10-7801-02 | POLYSTYRENE FOAMED FIXTURE L | | |
| - | - | * | H25-0232-04 | PROTECTION BAG (235X350X0.03) | | |
| - | - | * | H25-0391-04 | PROTECTION BAG | | |
| - | - | * | H50-4367-04 | ITEM CARTON CASE | E | |
| - | - | * | H50-4368-04 | ITEM CARTON CASE | ES | |
| 643 | 2E | * | J02-1532-03 | FOOT | | |
| 644 | 2E | * | J19-3751-04 | UNIT HOLDER | | |
| △ 654 | 1E | * | J42-0349-05 | POWER CORD BUSHING | | |
| - | - | * | J61-0307-05 | WIRE BAND | | |
| 658 | 2C | * | K27-2384-04 | KNOB (BUTTON) POWER | E | |
| 658 | 2C | * | K27-2481-04 | KNOB (BUTTON) POWER | ES | |
| 659 | 2D | * | K29-8099-04 | KNOB VOLUME | E | |
| 659 | 2D | * | K29-8100-04 | KNOB VOLUME | ES | |
| 660 | 2C | * | K29-8101-04 | KNOB MULTI/LISTEN | E | |
| 660 | 2C | * | K29-8102-04 | KNOB MULTI/LISTEN | ES | |
| 661 | 2D | * | K29-8136-03 | KNOB ASSY | E | |
| 661 | 2D | * | K29-8137-03 | KNOB ASSY | ES | |
| △ 665 | 2D | * | L07-3141-05 | POWER TRANSFORMER | | |
| 670 | 1C | * | T90-0852-05 | LOOP ANTENNA | | |
| 671 | 1C | * | T90-0877-05 | LEAD WIRE ANTENNA | | |

L : Scandinavia K : USA P : Canada R : Mexico C : China I : Malaysia
 Y : PX(Far East,Hawaii) T : England E : Europe G : Germany V : China(Shanghai) ES : KRF-V7060D-S(Etype)
 Y : AAFES(Europe) X : Australia Q : Russia H : Korea M : Other Areas △ indicates safety critical components.

* New Parts

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4

| Ref. No | Address | New Parts | Parts No. | Description | Destination | Remarks |
|--|---------|-----------|-------------|------------------------------|-------------|---------|
| 675 | 1E | * | W02-2896-05 | TUNER ASSY | | |
| 675 | 1E | * | W02-2897-05 | TUNER ASSY | | |
| VR-6060, KRF-V8060D/V8060D-S/V8060D-G | | | | | | |
| 601 | 1C | * | A01-3840-01 | METALLIC CABINET | KP | |
| 601 | 1C | * | A01-3842-01 | METALLIC CABINET | E | |
| 601 | 1C | * | A01-3843-01 | METALLIC CABINET | XES | |
| 601 | 1C | * | A01-3851-01 | METALLIC CABINET | M | |
| 602 | 1C | * | A09-1258-08 | BATTERY COVER | | |
| 604 | 2C | * | A21-3982-12 | DRESSING PANEL | E | |
| 604 | 2C | * | A21-3983-12 | DRESSING PANEL | XES | |
| 604 | 2C | * | A21-3984-12 | DRESSING PANEL | M | |
| 605 | 2D | * | A22-1873-01 | SUB PANEL ASSY | E | |
| 605 | 2D | * | A22-1874-01 | SUB PANEL ASSY | XES | |
| 605 | 2D | * | A22-1875-01 | SUB PANEL ASSY | M | |
| 606 | 3B | * | A60-2168-01 | PANEL | KP | |
| 606 | 2C | * | A60-2181-02 | PANEL | E | |
| 606 | 2C | * | A60-2182-12 | PANEL | XES | |
| 606 | 2C | * | A60-2196-12 | PANEL | M | |
| 607 | 1C | * | A70-1552-05 | REMOTE CONTROLLER ASSY | KP | |
| 607 | 1C | * | A70-1553-05 | REMOTE CONTROLLER ASSY | MX | |
| 607 | 1C | * | A70-1554-05 | REMOTE CONTROLLER ASSY | EES | |
| 611 | 3A | * | B07-2596-12 | ESCUTCHEON | KP | |
| 612 | 3B,2D | * | B07-2606-03 | ESCUTCHEON | KPE | |
| 612 | 2D | * | B07-2607-03 | ESCUTCHEON | XES | |
| 612 | 2D | * | B07-2614-03 | ESCUTCHEON | M | |
| 613 | 3A,2C | * | B07-2608-03 | ESCUTCHEON | KPE | |
| 613 | 2C | * | B07-2609-03 | ESCUTCHEON | XES | |
| 613 | 2C | * | B07-2615-03 | ESCUTCHEON | M | |
| 614 | 2D | * | B07-2619-13 | ESCUTCHEON | E | |
| 614 | 2D | * | B07-2620-13 | ESCUTCHEON | XES | |
| 614 | 2D | * | B07-2621-13 | ESCUTCHEON | M | |
| 615 | 2A | * | B10-3786-02 | FRONT GLASS | KP | |
| 615 | 2C | * | B10-3787-02 | FRONT GLASS | MX | |
| 615 | 2C | * | B10-3788-02 | FRONT GLASS | EES | |
| 616 | 2A,2C | * | B11-1544-03 | COLOR FILTER | | |
| 617 | 2D | * | B12-0440-04 | INDICATOR | ES | |
| 617 | 2D | * | B12-0440-04 | INDICATOR | MXE | |
| 617 | 2A | * | B12-0441-04 | INDICATOR | KP | |
| 618 | 3A,2D | * | B12-0442-04 | INDICATOR | | |
| 620 | 2A,2C | * | B43-0314-04 | KENWOOD BADGE | | |
| - | - | * | B46-0096-53 | WARRANTY CARD | X | |
| - | - | * | B46-0310-03 | WARRANTY CARD | EES | |
| - | - | * | B46-0330-03 | WARRANTY CARD | K | |
| - | - | * | B46-0347-03 | WARRANTY CARD | P | |
| - | - | * | B46-0365-04 | QUESTIONNAIRE CARD | K | |
| - | - | * | B58-0964-13 | CAUTION CARD (UL) | K | |
| - | - | * | B58-0965-13 | CAUTION CARD (T.XtypePL) | X | |
| - | - | * | B58-0966-13 | CAUTION CARD (ELMtypePL) | MEES | |
| - | - | * | B58-0967-03 | CAUTION CARD (PtypePL) | P | |
| - | - | * | B60-5188-20 | INST MANUAL (EN) | KPMX | |
| - | - | * | B60-5189-10 | INST MANUAL (FR) | P | |
| - | - | * | B60-5190-00 | INST MANUAL (ES/FR/GE/NE/IT) | EES | |
| - | - | * | B60-5191-00 | INST MANUAL (ES/TC) | M | |

L : Scandinavia K : USA P : Canada R : Mexico C : China I : Malaysia
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PARTS LIST

KRF-V6060D/V7060D/V8060D/V9060D/VR-6050/6060/6070

* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.
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5

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6

| Ref. No | Add-ress | New Parts | Parts No. | Description | Desti-nation | Re-marks |
|---------|----------|-----------|-------------|-------------------------------|--------------|----------|
| △ 623 | 1C | | E03-0382-05 | AC PLUG ADAPTER(WA-6) | M | |
| △ 624 | 1C | | E03-0383-05 | AC PLUG ADAPTER(WA-9C) | M | |
| △ 625 | 1E | | E30-2717-05 | AC POWER CORD | X | |
| △ 625 | 1E | | E30-2721-05 | AC POWER CORD | M | |
| △ 625 | 1E | | E30-2941-05 | AC POWER CORD | KP | |
| △ 625 | 1E | | E30-2942-05 | AC POWER CORD | EES | |
| △ 627 | 1D,1E | | E35-2873-15 | FLAT CABLE | KP | |
| 628 | 1D,2E | * | E35-3216-05 | FLAT CABLE | | |
| 637 | 2B,2C | * | G11-2885-04 | CUSHION | | |
| 638 | 1D | * | G11-2886-04 | CUSHION | | |
| 639 | 2C | * | G11-2887-04 | CUSHION | ES | |
| 639 | 2C | * | G11-2887-04 | CUSHION | MXE | |
| - | | * | H10-7800-02 | POLYSTYRENE FOAMED FIXTURE R | | |
| - | | * | H10-7801-02 | POLYSTYRENE FOAMED FIXTURE L | | |
| - | | * | H25-0232-04 | PROTECTION BAG (235X350X0.03) | | |
| - | | * | H25-0391-04 | PROTECTION BAG | | |
| - | | * | H50-4360-04 | ITEM CARTON CASE | KP | |
| - | | * | H50-4361-04 | ITEM CARTON CASE | M | |
| - | | * | H50-4362-04 | ITEM CARTON CASE | X | |
| - | | * | H50-4363-04 | ITEM CARTON CASE | E | |
| - | | * | H50-4364-04 | ITEM CARTON CASE | ES | |
| 643 | 2E | * | J02-1532-03 | FOOT | | |
| 644 | 2E | * | J19-3751-04 | UNIT HOLDER | | |
| △ 654 | 1E | * | J42-0349-05 | POWER CORD BUSHING | | |
| - | | * | J61-0307-05 | WIRE BAND | | |
| 658 | 2C | * | K27-2384-04 | KNOB (BUTTON) POWER | E | |
| 658 | 2C | * | K27-2481-04 | KNOB (BUTTON) POWER | XES | |
| 658 | 2C | * | K27-2482-04 | KNOB (BUTTON) POWER | M | |
| 659 | 3A,2D | * | K29-8099-04 | KNOB VOLUME | E | |
| 659 | 3A,2D | * | K29-8100-04 | KNOB VOLUME | XES | |
| 659 | 3A,2D | * | K29-8103-04 | KNOB VOLUME | KP | |
| 659 | 3A,2D | * | K29-8127-04 | KNOB VOLUME | M | |
| 660 | 3A,2C | * | K29-8101-04 | KNOB MULTI/LISTEN | E | |
| 660 | 3A,2C | * | K29-8102-04 | KNOB MULTI/LISTEN | XES | |
| 660 | 3A,2C | * | K29-8105-04 | KNOB MULTI/LISTEN | KP | |
| 660 | 3A,2C | * | K29-8128-04 | KNOB MULTI/LISTEN | M | |
| 661 | 2B,2D | * | K29-8136-03 | KNOB ASSY | KPE | |
| 661 | 2B,2D | * | K29-8137-03 | KNOB ASSY | XES | |
| 661 | 2B,2D | * | K29-8138-03 | KNOB ASSY | M | |
| 662 | 2A | * | K29-8107-02 | KNOB ON/STANDBY | KP | |
| 663 | 3A | * | K29-8111-02 | KNOB VIDEO1-SETUP-2 | KP | |
| △ 665 | 2D | * | L07-3138-05 | POWER TRANSFORMER | KP | |
| △ 665 | 2D | * | L07-3139-05 | POWER TRANSFORMER | M | |
| △ 665 | 2D | * | L07-3140-05 | POWER TRANSFORMER | X | |
| △ 665 | 2D | * | L07-3141-05 | POWER TRANSFORMER | EES | |
| 670 | 1C | * | T90-0852-05 | LOOP ANTENNA | | |
| 671 | 1C | * | T90-0877-05 | LEAD WIRE ANTENNA | | |
| 672 | 1C | * | T90-0899-05 | ANTENNA ASSY | KP | |
| 675 | 1E | * | W02-2893-05 | TUNER ASSY | KP | |
| 675 | 1E | * | W02-2894-05 | TUNER ASSY | KP | |
| 675 | 1E | * | W02-2895-05 | TUNER ASSY | MX | |
| 675 | 1E | * | W02-2896-05 | TUNER ASSY | EES | |
| 675 | 1E | * | W02-2897-05 | TUNER ASSY | EES | |

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Y : AAFES(Europe) X : Australia Q : Russia H : Korea M : Other Areas △ indicates safety critical components .

| Ref. No | Add-ress | New Parts | Parts No. | Description | Desti-nation | Re-marks |
|--|----------|-----------|-------------|------------------------------|--------------|----------|
| 675 | 1E | * | W02-2906-05 | TUNER ASSY | KP | |
| VR-6070, KRF-X9060D/X9060D-S/X9060D-G | | | | | | |
| 601 | 1C | * | A01-3842-01 | METALLIC CABINET | KPYE | |
| 601 | 1C | * | A01-3843-01 | METALLIC CABINET | XTES | |
| 601 | 1C | * | A01-3851-01 | METALLIC CABINET | MH | |
| 602 | 1C | * | A09-1258-08 | BATTERY COVER | | |
| 604 | 2C | * | A21-3982-12 | DRESSING PANEL | KPYE | |
| 604 | 2C | * | A21-3983-12 | DRESSING PANEL | XTES | |
| 604 | 2C | * | A21-3984-12 | DRESSING PANEL | MH | |
| 605 | 2D | * | A22-1873-01 | SUB PANEL ASSY | KPYE | |
| 605 | 2D | * | A22-1874-01 | SUB PANEL ASSY | XTES | |
| 605 | 2D | * | A22-1875-01 | SUB PANEL ASSY | MH | |
| 606 | 2C | * | A60-2178-12 | PANEL | KP | |
| 606 | 2C | * | A60-2179-02 | PANEL | YE | |
| 606 | 2C | * | A60-2180-12 | PANEL | XTES | |
| 606 | 2C | * | A60-2195-12 | PANEL | MH | |
| 607 | 1C | * | A70-1549-05 | REMOTE CONTROLLER ASSY | KP | |
| 607 | 1C | * | A70-1550-05 | REMOTE CONTROLLER ASSY | YMHX | |
| 607 | 1C | * | A70-1551-05 | REMOTE CONTROLLER ASSY | TEES | |
| 612 | 2D | * | B07-2606-03 | ESCUTCHEON | KPYE | |
| 612 | 2D | * | B07-2607-03 | ESCUTCHEON | XTES | |
| 612 | 2D | * | B07-2614-03 | ESCUTCHEON | MH | |
| 613 | 2C | * | B07-2608-03 | ESCUTCHEON | KPYE | |
| 613 | 2C | * | B07-2609-03 | ESCUTCHEON | XTES | |
| 613 | 2C | * | B07-2615-03 | ESCUTCHEON | MH | |
| 614 | 2D | * | B07-2619-13 | ESCUTCHEON | KPYE | |
| 614 | 2D | * | B07-2620-13 | ESCUTCHEON | XTES | |
| 614 | 2D | * | B07-2621-13 | ESCUTCHEON | MH | |
| 615 | 2C | * | B10-3783-02 | FRONT GLASS | KP | |
| 615 | 2C | * | B10-3784-02 | FRONT GLASS | YMHX | |
| 615 | 2C | * | B10-3785-02 | FRONT GLASS | TEES | |
| 616 | 2C | * | B11-1543-03 | COLOR FILTER | | |
| 617 | 2D | * | B12-0440-04 | INDICATOR | | |
| 618 | 2D | * | B12-0442-04 | INDICATOR | | |
| 620 | 2C | * | B43-0314-04 | KENWOOD BADGE | | |
| - | | * | B46-0096-53 | WARRANTY CARD | X | |
| - | | * | B46-0310-03 | WARRANTY CARD | TEES | |
| - | | * | B46-0328-03 | WARRANTY CARD | Y | |
| - | | * | B46-0330-03 | WARRANTY CARD | K | |
| - | | * | B46-0347-03 | WARRANTY CARD | P | |
| - | | * | B46-0365-04 | QUESTIONAIRE CARD | K | |
| - | | * | B58-0513-04 | CAUTION CARD (PRESET220-240) | Y | |
| - | | * | B58-0945-03 | CAUTION CARD | T | |
| - | | * | B58-0964-13 | CAUTION CARD (UL) | T | |
| - | | * | B58-0965-13 | CAUTION CARD (T,XtypePL) | KY | |
| - | | * | B58-0966-13 | CAUTION CARD (ELMtypePL) | XT | |
| - | | * | B58-0967-03 | CAUTION CARD (PtypePL) | MEEES | |
| - | | * | B59-1104-00 | SERVICE DIRECTORY | P | |
| - | | * | B60-5183-00 | INST MANUAL (EN) | Y | |
| - | | * | B60-5184-00 | INST MANUAL (FR) | KPYMXT | |
| - | | * | B60-5185-00 | INST MANUAL (ES/FR/GE/NE/IT) | P | |
| - | | * | B60-5186-00 | INST MANUAL (ES/TC) | EES | |
| △ 623 | 1C | * | E03-0382-05 | AC PLUG ADAPTER(WA-6) | M | |

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7

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| Ref. No | Address | New Parts | Parts No. | Description | Destination | Remarks |
|---------|---------|-----------|-------------|-------------------------------|-------------|---------|
| △ 624 | 1C | | E03-0383-05 | AC PLUG ADAPTER(WA-9C) | M | |
| △ 625 | 1E | | E30-2605-05 | AC POWER CORD | Y | |
| △ 625 | 1E | | E30-2717-05 | AC POWER CORD | X | |
| △ 625 | 1E | | E30-2721-05 | AC POWER CORD | MT | |
| △ 625 | 1E | | E30-2941-05 | AC POWER CORD | KP | |
| △ 625 | 1E | | E30-2942-05 | AC POWER CORD | EES | |
| △ 625 | 1E | | E30-2950-05 | AC POWER CORD | H | |
| 626 | 1E,2E | | E35-2841-05 | FLAT CABLE | | |
| 627 | 1D,1E | | E35-2873-15 | FLAT CABLE | KP | |
| 628 | 1D,2E | * | E35-3216-05 | FLAT CABLE | | |
| 637 | 2C,2E | * | G11-2885-04 | CUSHION | | |
| 638 | 1D | * | G11-2886-04 | CUSHION | | |
| 639 | 2C | * | G11-2887-04 | CUSHION | | |
| - | | * | H10-7800-02 | POLYSTYRENE FOAMED FIXTURE R | | |
| - | | * | H10-7801-02 | POLYSTYRENE FOAMED FIXTURE L | | |
| - | | * | H25-0232-04 | PROTECTION BAG (235X350X0.03) | | |
| - | | * | H25-0391-04 | PROTECTION BAG | | |
| - | | * | H50-4353-04 | ITEM CARTON CASE | KP | |
| - | | * | H50-4354-04 | ITEM CARTON CASE | Y | |
| - | | * | H50-4355-04 | ITEM CARTON CASE | MH | |
| - | | * | H50-4356-04 | ITEM CARTON CASE | X | |
| - | | * | H50-4357-04 | ITEM CARTON CASE | T | |
| - | | * | H50-4358-04 | ITEM CARTON CASE | E | |
| - | | * | H50-4359-04 | ITEM CARTON CASE | ES | |
| 643 | 2E | * | J02-1532-03 | FOOT | | |
| △ 644 | 2E | * | J19-3751-04 | UNIT HOLDER | | |
| 654 | 1E | | J42-0349-05 | POWER CORD BUSHING | | |
| - | | | J61-0307-05 | WIRE BAND | | |
| 658 | 2C | | K27-2384-04 | KNOB (BUTTON) POWER | YE | |
| 658 | 2C | | K27-2481-04 | KNOB (BUTTON) POWER | XTES | |
| 658 | 2C | * | K27-2482-04 | KNOB (BUTTON) POWER | MH | |
| 659 | 2D | * | K29-8099-04 | KNOB VOLUME | KPYE | |
| 659 | 2D | * | K29-8100-04 | KNOB VOLUME | XTES | |
| 659 | 2D | * | K29-8127-04 | KNOB VOLUME | MH | |
| 660 | 2C | * | K29-8101-04 | KNOB MULTI/LISTEN | KPYE | |
| 660 | 2C | * | K29-8102-04 | KNOB VOLUME | XTES | |
| 660 | 2C | * | K29-8128-04 | KNOB VOLUME | MH | |
| 661 | 2D | * | K29-8136-03 | KNOB ASSY | KPYE | |
| 661 | 2D | * | K29-8137-03 | KNOB ASSY | XTES | |
| 661 | 2D | * | K29-8138-03 | KNOB ASSY | MH | |
| △ 665 | 2D | * | L07-3138-05 | POWER TRANSFORMER | KP | |
| △ 665 | 2D | * | L07-3139-05 | POWER TRANSFORMER | YM | |
| △ 665 | 2D | * | L07-3140-05 | POWER TRANSFORMER | HX | |
| △ 665 | 2D | * | L07-3141-05 | POWER TRANSFORMER | TEES | |
| 670 | 1C | | T90-0852-05 | LOOP ANTENNA | | |
| 671 | 1C | | T90-0877-05 | LEAD WIRE ANTENNA | | |
| 672 | 1C | * | T90-0899-05 | ANTENNA ASSY | KP | |
| 675 | 1E | * | W02-2893-05 | TUNER ASSY | KP | |
| 675 | 1E | * | W02-2894-05 | TUNER ASSY | KP | |
| 675 | 1E | * | W02-2895-05 | TUNER ASSY | YMHX | |
| 675 | 1E | * | W02-2896-05 | TUNER ASSY | TEES | |
| 675 | 1E | * | W02-2897-05 | TUNER ASSY | TEES | |

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|---|---------|-----------|---------------|---------------------------------|-------------|---------|
| 675 | 1E | * | W02-2906-05 | TUNER ASSY | KP | |
| RF-RC DEMODULATOR UNIT (X05-5180-10) VR-6060/6070 only | | | | | | |
| C1 | | | CC73GCH1H220J | CHIP C | 22PF | J |
| C2 -4 | | | CC73GCH1H221J | CHIP C | 220PF | J |
| C5 | | | CK73GB1E223K | CHIP C | 0.022UF | K |
| C6 | | | CC73GCH1H221J | CHIP C | 220PF | J |
| C12 | | | CC73GCH1H221J | CHIP C | 220PF | J |
| C13 | | | CC73GCH1H050C | CHIP C | 5.0PF | C |
| C14 | | | CC73GCH1H100D | CHIP C | 10PF | D |
| C16 | | | CK73GB1E223K | CHIP C | 0.022UF | K |
| C17 | | | CC73GCH1H100D | CHIP C | 10PF | D |
| C18 | | | CC73GCH1H050C | CHIP C | 5.0PF | C |
| C19 | | | CK73EB0J106K | CHIP C | 10UF | K |
| C20 | | | CC73GCH1H0R5C | CHIP C | 0.5PF | C |
| C21 | | | CK73GB1H103K | CHIP C | 0.010UF | K |
| C22 | | | CK73FB0J475K | CHIP C | 4.7UF | K |
| C23 | | | CC73GCH1H010C | CHIP C | 1.0PF | C |
| C24 | | | CK73GB1H103K | CHIP C | 0.010UF | K |
| C25 | | | CK73EB0J106K | CHIP C | 10UF | K |
| C26 | | | CK73GF1C224Z | CHIP C | 0.22UF | Z |
| C27 | | | CK73GB1H103K | CHIP C | 0.010UF | K |
| C28 | | | CC73GCH1H100D | CHIP C | 10PF | D |
| C29 | | | CC73GCH1H221J | CHIP C | 220PF | J |
| C30 | | | CK73EB0J106K | CHIP C | 10UF | K |
| C31 | | | CK73GB1E223K | CHIP C | 0.022UF | K |
| C32 ,33 | | | CK73GB1H103K | CHIP C | 0.010UF | K |
| C34 | | | CC73GCH1H101J | CHIP C | 100PF | J |
| C35 | | | CC73GCH1H471J | CHIP C | 470PF | J |
| C36 ,37 | | | CK73GB1H103K | CHIP C | 0.010UF | K |
| C38 | | | CK73GF1A105Z | CHIP C | 1.0UF | Z |
| C39 | | | CK73GB1H103K | CHIP C | 0.010UF | K |
| C40 ,41 | | | CC73GCH1H150J | CHIP C | 15PF | J |
| C43 | | | CK73GB1H222K | CHIP C | 2200PF | K |
| C44 | | | CK73GB1H103K | CHIP C | 0.010UF | K |
| C45 | | | CK73GF1A105Z | CHIP C | 1.0UF | Z |
| C47 | | | CK73GF1A105Z | CHIP C | 1.0UF | Z |
| CN1 | | | E40-8530-05 | FLAT CABLE CONNECTOR | | |
| J1 | | | E11-0904-05 | MINIATURE PHONE JACK(STEREO MI) | | |
| CF1 | | | L72-0643-05 | CERAMIC FILTER | | |
| L1 | | | L79-1294-05 | LC FILTER | | |
| L4 | | | L92-0140-05 | CHIP FERRITE | | |
| L5 | | * | L32-1058-05 | FM OSCILLATING COIL | | |
| L6 ,7 | | | L92-0140-05 | CHIP FERRITE | | |
| L9 ,10 | | | L92-0140-05 | CHIP FERRITE | | |
| L12 | | | L92-0140-05 | CHIP FERRITE | | |
| X1 | | | L77-2382-05 | CRYSTAL RESONATOR(12.8MHZ,50PP) | | |
| R1 | | | RK73GB1J431J | CHIP R | 430 | J 1/16W |
| R2 | | | RK73GB1J120J | CHIP R | 12 | J 1/16W |
| R3 | | | RK73GB1J431J | CHIP R | 430 | J 1/16W |
| R4 | | | RK73GB1J331J | CHIP R | 330 | J 1/16W |
| R6 | | | RK73GB1J391J | CHIP R | 390 | J 1/16W |
| R7 | | | RK73GB1J103J | CHIP R | 10K | J 1/16W |
| R8 | | | RK73GB1J473J | CHIP R | 47K | J 1/16W |

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KRF-V6060D/V7060D/V8060D/X9060D/VR-6050/6060/6070
PARTS LIST

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| Ref. No | Add-ress | New Parts | Parts No. | Description | Desti-nation | Re-marks |
|------------------------------------|----------|-----------|---------------|----------------------------|--------------|----------|
| R9 | | | RK73GB1J103J | CHIP R 10K J 1/16W | | |
| R10 | | | RK73GB1J100J | CHIP R 10 J 1/16W | | |
| R11 | | | RK73GB1J821J | CHIP R 820 J 1/16W | | |
| R12 | | | RK73GB1J471J | CHIP R 470 J 1/16W | | |
| R13 | | | RK73GB1J511J | CHIP R 510 J 1/16W | | |
| R14 | | | RK73GB1J124J | CHIP R 120K J 1/16W | | |
| R15 | | | RK73GB1J271J | CHIP R 270 J 1/16W | | |
| R16 | | | RK73GB1J201J | CHIP R 200 J 1/16W | | |
| R17 | | | RK73GB1J102J | CHIP R 1.0K J 1/16W | | |
| R18 | | | RK73GB1J471J | CHIP R 470 J 1/16W | | |
| R19 | | | RK73GB1J102J | CHIP R 1.0K J 1/16W | | |
| R20 | | | RK73GB1J242J | CHIP R 2.4K J 1/16W | | |
| R21 | | | RK73GB1J183J | CHIP R 18K J 1/16W | | |
| R24 -26 | | | RK73GB1J102J | CHIP R 1.0K J 1/16W | | |
| R31 | | | RK73GB1J332J | CHIP R 3.3K J 1/16W | | |
| R32 | | | RK73GB1J105J | CHIP R 1.0M J 1/16W | | |
| R33 | | | RK73GB1J103J | CHIP R 10K J 1/16W | | |
| R34 | | | RK73GB1J474J | CHIP R 470K J 1/16W | | |
| D1 | | | 1SS302 | DIODE | | |
| D2 | | | KV1832E | VARIABLE CAPACITANCE DIODE | | |
| IC1 | | | UPC2748T-E3 | ANALOGUE IC | | |
| IC3 | | | LV2105V | MOS-IC | | |
| IC4 | | | TK14583V | ANALOGUE IC | | |
| IC7 | | * | XC6201P502MR | ANALOGUE IC | | |
| Q2 ,3 | | | 2SC5065(O,Y) | TRANSISTOR | | |
| Q4 | | | DTA124EUA | DIGITAL TRANSISTOR | | |
| SURROUND UNIT (X08-3130-XX) | | | | | | |
| C1 ,2 | | | CK73GB1H472K | CHIP C 4700PF K | | |
| C3 ,4 | | | CC73GCH1H220J | CHIP C 22PF J | | |
| C5 | | | CE04LW1E470M | ELECTRO 47UF 25WV | | |
| C6 | | | CE04LW1E470M | ELECTRO 47UF 25WV | | |
| C7 | | | CE04LW1H100M | ELECTRO 10UF 50WV | | 59 |
| C8 ,9 | | | CC73GCH1H270J | CHIP C 27PF J | | 5 |
| C10 | | | CK73GB1H102K | CHIP C 1000PF K | | |
| C11 | | | CK73FB1E104K | CHIP C 0.10UF K | | |
| C12 | | | CK73GB1H102K | CHIP C 1000PF K | | |
| C15 | | | CC73GCH1H330J | CHIP C 33PF J | | |
| C16 | | | CK73GB1H102K | CHIP C 1000PF K | | |
| C17 | | | CC73GCH1H330J | CHIP C 33PF J | | |
| C18 | | | CC73GCH1H220J | CHIP C 22PF J | | |
| C19 | | | CC73GCH1H330J | CHIP C 33PF J | | |
| C20 | | | CK73GB1H103K | CHIP C 0.010UF K | | |
| C30 | | | CK73FB1E104K | CHIP C 0.10UF K | | |
| C31 | | | CE04RW1C4R7M | ELECTRO 4.7UF 16WV | | |
| C32 | | | CK73FB1E104K | CHIP C 0.10UF K | | |
| C33 | | | CE04KW1C100M | ELECTRO 10UF 16WV | | |
| C34 | | | CE04KW1C220M | ELECTRO 22UF 16WV | | |
| C35 | | | CK73FB1E104K | CHIP C 0.10UF K | | |
| C36 ,37 | | | CC73GCH1H180J | CHIP C 18PF J | | |
| C38 | | | CC73GCH1H330J | CHIP C 33PF J | | |
| C39 | | | CK73GB1H103K | CHIP C 0.010UF K | | |
| C101,102 | | | CE04KW1H100M | ELECTRO 10UF 50WV | | |
| C103-106 | | | CK73GB1H182K | CHIP C 1800PF K | | |
| C107 | | | CC73GCH1H101J | CHIP C 100PF J | | |

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| Ref. No | Add-ress | New Parts | Parts No. | Description | Desti-nation | Re-marks |
|----------|----------|-----------|---------------|---------------------|--------------|----------|
| C108 | | | CK73GB1H472K | CHIP C 4700PF K | | |
| C109,110 | | | CC73GCH1H220J | CHIP C 22PF J | | |
| C121 | | | CC73GCH1H102J | CHIP C 1000PF J | | |
| C122 | | | CC73GCH1H101J | CHIP C 100PF J | | |
| C123,124 | | | CC73GCH1H220J | CHIP C 22PF J | | |
| C125 | | | CK73GB1H103K | CHIP C 0.010UF K | | |
| C126 | | | CC73GCH1H101J | CHIP C 100PF J | | |
| C127,128 | | | CE04LW1H4R7M | ELECTRO 4.7UF 50WV | | |
| C153,154 | | | C91-1597-05 | CERAMIC 4.7UF Z | | |
| C201,202 | | | CE04KW1H100M | ELECTRO 10UF 50WV | | |
| C203,204 | | | CK73GB1H222K | CHIP C 2200PF K | | |
| C205,206 | | | CK73GB1H821K | CHIP C 820PF K | | |
| C207 | | | CC73GCH1H101J | CHIP C 100PF J | | |
| C208 | | | CK73GB1H472K | CHIP C 4700PF K | | |
| C209,210 | | | CE04LW1H4R7M | ELECTRO 4.7UF 50WV | | |
| C301,302 | | | CE04KW1H100M | ELECTRO 10UF 50WV | | |
| C303-306 | | | CK73GB1H182K | CHIP C 1800PF K | | |
| C307 | | | CC73GCH1H101J | CHIP C 100PF J | | |
| C308 | | | CK73GB1H472K | CHIP C 4700PF K | | |
| C309,310 | | | CE04LW1H4R7M | ELECTRO 4.7UF 50WV | | |
| C401,402 | | | CE04KW1H100M | ELECTRO 10UF 50WV | | |
| C403 | | | CK73GB1H182K | CHIP C 1800PF K | | |
| C404 | | | CK73GB1H822K | CHIP C 8200PF K | | |
| C405 | | | CK73GB1H182K | CHIP C 1800PF K | | |
| C406 | | | CK73GB1H822K | CHIP C 8200PF K | | |
| C407 | | | CC73GCH1H101J | CHIP C 100PF J | | |
| C408 | | | CK73GB1H103K | CHIP C 0.010UF K | | |
| C409,410 | | | CE04LW1H4R7M | ELECTRO 4.7UF 50WV | | |
| C411 | | | CC73GCH1H220J | CHIP C 22PF J | | |
| C500-513 | | | CK73FB1E104K | CHIP C 0.10UF K | | |
| C514 | | | CC73GCH1H470J | CHIP C 47PF J | | |
| C515 | | | CE04LW0J471M | ELECTRO 470UF 6.3WV | | |
| C600-603 | | | CK73FB1E104K | CHIP C 0.10UF K | | |
| C800,801 | | | CC73GCH1H221J | CHIP C 220PF J | | |
| C802 | | | CK73GB1H103K | CHIP C 0.010UF K | | |
| C803 | | | CK73FB1H103K | CHIP C 0.010UF K | | |
| C900 | | | CE04KW1C472M | ELECTRO 4700UF 16WV | | |
| C901 | | | CK73FB1E104K | CHIP C 0.10UF K | | |
| C908 | | | CK73FF1C225Z | CHIP C 2.2UF Z | | |
| C909 | | | CK73FB1E104K | CHIP C 0.10UF K | | |
| C910 | | | CE04KW1A101M | ELECTRO 100UF 10WV | | |
| C911 | | | CK73FB1E104K | CHIP C 0.10UF K | | |
| C912 | | | CC73GCH1H390J | CHIP C 39PF J | | |
| C913 | | | CK73FB1E104K | CHIP C 0.10UF K | | |
| C914 | | | CK73FB1H103K | CHIP C 0.010UF K | | |
| C920 | | | CE04KW1A101M | ELECTRO 100UF 10WV | | |
| C921 | | | CK73FB1E104K | CHIP C 0.10UF K | | |
| C922 | | | CC73GCH1H470J | CHIP C 47PF J | | |
| C923 | | | CK73FB1E104K | CHIP C 0.10UF K | | |
| C930 | | | CE04KW1A101M | ELECTRO 100UF 10WV | | |
| C931 | | | CK73FB1E104K | CHIP C 0.10UF K | | |
| C932 | | | CC73GCH1H100D | CHIP C 10PF D | | |
| C933 | | | CK73FB1E104K | CHIP C 0.10UF K | | |
| CN1 | | | E40-3246-05 | PIN ASSY | | |

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| Ref. No | Add-ress | New Parts | Parts No. | Description | Desti-nation | Re-marks |
|-----------|----------|-----------|--------------|------------------------------|--------------|----------|
| CN3 | | | E40-8484-05 | FLAT CABLE CONNECTOR | | |
| CN4 | | | E40-3257-05 | PIN ASSY | | |
| CN5 | | | E40-3254-05 | PIN ASSY | | |
| J1 | | | E63-1080-05 | PIN JACK | | |
| J800 | | | E11-0293-05 | MINIATURE PHONE JACK(2P) | | |
| L1 ,2 | | | L92-0510-05 | CHIP FERRITE | | |
| X1 | | | L77-2296-05 | CRYSTAL RESONATOR(12.288MHZ) | | |
| CP51,52 | | | R90-0714-05 | MULTI-COMP 10K X4 | | |
| CP600-604 | | | R90-0728-05 | MULTI-COMP 180 X4 | | |
| R1 | | | RK73GB1J471J | CHIP R 470 J 1/16W | | |
| R2 | | | RK73GB1J471J | CHIP R 470 J 1/16W | | 59 |
| R3 | | | R92-1946-05 | METAL GLAZE 4.7 J 1/4W | | 59 |
| R4 | | | RK73GB1J471J | CHIP R 470 J 1/16W | | 5 |
| R5 | | | R92-1946-05 | METAL GLAZE 4.7 J 1/4W | | 5 |
| R6 | | | R92-1946-05 | METAL GLAZE 4.7 J 1/4W | | |
| R7 | | | RK73GB1J820J | CHIP R 82 J 1/16W | | |
| R8 | | | RK73GB1J821J | CHIP R 820 J 1/16W | | |
| R9 | | | RK73GB1J105J | CHIP R 1.0M J 1/16W | | |
| R10 | | | RK73GB1J221J | CHIP R 220 J 1/16W | | |
| R11 | | | RK73GB1J183J | CHIP R 18K J 1/16W | | |
| R14 ,15 | | | RK73GB1J330J | CHIP R 33 J 1/16W | | |
| R16 -19 | | | RK73GB1J220J | CHIP R 22 J 1/16W | | |
| R20 | | | RK73GB1J221J | CHIP R 220 J 1/16W | | |
| R21 | | | RK73GB1J220J | CHIP R 22 J 1/16W | | |
| R22 | | | RK73GB1J105J | CHIP R 1.0M J 1/16W | | |
| R23 | | | RK73GB1J330J | CHIP R 33 J 1/16W | | |
| R30 | | | RK73GB1J220J | CHIP R 22 J 1/16W | | |
| R31 | | | R92-1946-05 | METAL GLAZE 4.7 J 1/4W | | |
| R32 | | | RK73GB1J221J | CHIP R 220 J 1/16W | | |
| R101,102 | | | RK73GB1J222J | CHIP R 2.2K J 1/16W | | |
| R103,104 | | | RK73GB1J104J | CHIP R 100K J 1/16W | | |
| R105,106 | | | RK73GB1J102J | CHIP R 1.0K J 1/16W | | |
| R107,108 | | | RK73GB1J103J | CHIP R 10K J 1/16W | | |
| R109,110 | | | RK73GB1J472J | CHIP R 4.7K J 1/16W | | |
| R111,112 | | | RK73GB1J221J | CHIP R 220 J 1/16W | | |
| R121,122 | | | RK73GB1J112J | CHIP R 1.1K J 1/16W | | |
| R123,124 | | | RK73GB1J242J | CHIP R 2.4K J 1/16W | | |
| R125-128 | | | RK73GB1J103J | CHIP R 10K J 1/16W | | |
| R129,130 | | | RK73GB1J101J | CHIP R 100 J 1/16W | | |
| R151,152 | | | RK73GB1J562J | CHIP R 5.6K J 1/16W | | |
| R153,154 | | | RK73GB1J432J | CHIP R 4.3K J 1/16W | | |
| R155-158 | | | RK73GB1J472J | CHIP R 4.7K J 1/16W | | |
| R201,202 | | | RK73GB1J332J | CHIP R 3.3K J 1/16W | | |
| R203,204 | | | RK73GB1J104J | CHIP R 100K J 1/16W | | |
| R205,206 | | | RK73GB1J911J | CHIP R 910 J 1/16W | | |
| R207,208 | | | RK73GB1J272J | CHIP R 2.7K J 1/16W | | |
| R209,210 | | | RK73GB1J562J | CHIP R 5.6K J 1/16W | | |
| R211,212 | | | RK73GB1J221J | CHIP R 220 J 1/16W | | |
| R213 | | | RK73GB1J472J | CHIP R 4.7K J 1/16W | | |
| R214,215 | | | RK73GB1J562J | CHIP R 5.6K J 1/16W | | |
| R216 | | | RK73GB1J472J | CHIP R 4.7K J 1/16W | | |
| R301,302 | | | RK73GB1J222J | CHIP R 2.2K J 1/16W | | |
| R303,304 | | | RK73GB1J104J | CHIP R 100K J 1/16W | | |
| R305,306 | | | RK73GB1J102J | CHIP R 1.0K J 1/16W | | |

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| Ref. No | Add-ress | New Parts | Parts No. | Description | Desti-nation | Re-marks |
|----------|----------|-----------|--------------|------------------------|--------------|----------|
| R307,308 | | | RK73GB1J103J | CHIP R 10K J 1/16W | | |
| R309,310 | | | RK73GB1J472J | CHIP R 4.7K J 1/16W | | |
| R311,312 | | | RK73GB1J221J | CHIP R 220 J 1/16W | | |
| R401 | | | RK73GB1J222J | CHIP R 2.2K J 1/16W | | |
| R402,403 | | | RK73GB1J104J | CHIP R 100K J 1/16W | | |
| R404 | | | RK73GB1J273J | CHIP R 27K J 1/16W | | |
| R405 | | | RK73GB1J102J | CHIP R 1.0K J 1/16W | | |
| R406 | | | RK73GB1J183J | CHIP R 18K J 1/16W | | |
| R407,408 | | | RK73GB1J103J | CHIP R 10K J 1/16W | | |
| R409 | | | RK73GB1J472J | CHIP R 4.7K J 1/16W | | |
| R410 | | | RK73GB1J562J | CHIP R 5.6K J 1/16W | | |
| R411,412 | | | RK73GB1J221J | CHIP R 220 J 1/16W | | |
| R501-508 | | | RK73GB1J104J | CHIP R 100K J 1/16W | | |
| R509-511 | | | RK73GB1J221J | CHIP R 220 J 1/16W | | |
| R512 | | | RK73GB1J104J | CHIP R 100K J 1/16W | | |
| R513 | | | RK73GB1J102J | CHIP R 1.0K J 1/16W | | |
| R514 | | | RK73GB1J472J | CHIP R 4.7K J 1/16W | | |
| R515 | | * | R92-4583-05 | METAL GLAZE RESISTOR | | |
| R541 | | | RK73GB1J220J | CHIP R 22 J 1/16W | | |
| R542,543 | | | RK73GB1J101J | CHIP R 100 J 1/16W | | |
| R601-608 | | | RK73GB1J104J | CHIP R 100K J 1/16W | | |
| R900 | | | R92-1918-05 | CHIP R 0.33 J 1/4W | | |
| R910 | | | R92-1946-05 | METAL GLAZE 4.7 J 1/4W | | |
| R920 | | | RS14KB3D180J | FL-PROOF RS 18 J 2W | | |
| R930 | | | RS14KB3D4R7J | FL-PROOF RS 4.7 J 2W | | |
| R931 | | | RS14KB3D5R6J | FL-PROOF RS 5.6 J 2W | | |
| R950 | | | RK73GB1J152J | CHIP R 1.5K J 1/16W | | |
| R951 | | | RK73GB1J102J | CHIP R 1.0K J 1/16W | | |
| R952 | | | RK73GB1J472J | CHIP R 4.7K J 1/16W | | |
| R953 | | | RK73GB1J473J | CHIP R 47K J 1/16W | | |
| R954,955 | | | RK73GB1J221J | CHIP R 220 J 1/16W | | |
| W999 | | | R92-0679-05 | CHIP R 0 OHM | | |
| S800 | | | S62-0034-05 | SLIDE SWITCH | YMI | |
| D1 | | | DAN202U | DIODE | | |
| D1 | | | MA142WK | DIODE | | |
| D1 | | | 1SS301 | DIODE | | |
| D3 | | | DAN202U | DIODE | | |
| D3 | | | MA142WK | DIODE | | |
| D3 | | | 1SS301 | DIODE | | |
| D4 | | | DAP202U | DIODE | | |
| D4 | | | MA142WA | DIODE | | |
| D4 | | | 1SS300 | DIODE | | |
| D800,801 | | | MA111 | DIODE | | |
| D900 | | | D2SBA20F03 | DIODE | YM | |
| D901,902 | | | MA111 | DIODE | | |
| D910 | | | HZU3.9(B2) | ZENER DIODE | | |
| D910 | | | UDZ3.9B | ZENER DIODE | | |
| D920 | | | HZU3.9(B2) | ZENER DIODE | | |
| D920 | | | UDZ3.9B | ZENER DIODE | | |
| D930 | | | HZU5.6(B2) | ZENER DIODE | | |
| D930 | | | UDZ5.6B | ZENER DIODE | | |
| D950 | | | HZU5.1(B2) | ZENER DIODE | | |
| D950 | | | UDZ5.1B | ZENER DIODE | | |

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PARTS LIST

KRF-V6060D/V7060D/V8060D/X9060D/VR-6050/6060/6070

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|---------------------------------|----------|-----------|---------------|------------------------|--------------|----------|
| D951 | | | MA111 | DIODE | | |
| IC2 | | | AK4112BVF | MOS-IC | | |
| IC3 | | | TC7WH241FU | MOS-IC | | |
| IC4 | | | AK4529-VQ | MOS-IC | | |
| IC5 | | | TC7SHU04FU | MOS-IC | | |
| IC6 | | | TC7WU04FU | MOS-IC | | |
| IC7 | | | TC74VHC175FT | MOS-IC | | |
| IC11 | | | NJM4565M | ANALOGUE IC | | |
| IC11 | | | NJM4565MD | IC(OP AMP X2) | | |
| IC12 | | | NJU7311AM | MOS-IC | | |
| IC21 | | | NJM4565M | ANALOGUE IC | | |
| IC21 | | | NJM4565MD | IC(OP AMP X2) | | |
| IC31 | | | NJM4565M | ANALOGUE IC | | |
| IC31 | | | NJM4565MD | IC(OP AMP X2) | | |
| IC41 | | | NJM4565M | ANALOGUE IC | | |
| IC41 | | | NJM4565MD | IC(OP AMP X2) | | |
| IC50 | | * | ADSST-MEL322 | MOS-IC | | |
| IC51 | | * | 27W40180N6A00 | ROM IC | | 5 |
| IC51 | | * | 27W40180N6702 | ROM IC | | 6 |
| IC51 | | * | 27W40180N6902 | ROM IC | | 9 |
| IC52 | | * | A61L6316-12V | SRAM IC | | |
| IC60 | | | TC74HCT7007AF | MOS-IC | | |
| IC61 | | | TC74VHC125FT | MOS-IC | | |
| IC90 | | | BA05T | ANALOGUE IC | | |
| IC91 | | * | NJU7223F25 | ANALOGUE IC | | |
| IC92 | | | BA033T | ANALOGUE IC | | |
| IC93 | | | BA05T | ANALOGUE IC | | |
| IC123 | | | NJM4565M | ANALOGUE IC | | |
| IC123 | | | NJM4565MD | IC(OP AMP X2) | | |
| Q950 | | | 2SA1576A(R,S) | TRANSISTOR | | |
| Q950 | | | 2SB1218A(Q,R) | TRANSISTOR | | |
| Q951 | | | 2SC4081(R,S) | TRANSISTOR | | |
| Q951 | | | 2SD1819A(Q,R) | TRANSISTOR | | |
| A1 | | | W02-2731-05 | OPTIC RECEIVING MODULE | | |
| A2 | | | W02-2731-05 | OPTIC RECEIVING MODULE | | 59 |
| A3 | | | W02-2732-05 | OSCILLATING MODULE | | 5 |
| AUDIO UNIT (X09-658X-XX) | | | | | | |
| C1 ,2 | | | CC45FSL1H221J | CERAMIC | 220PF | J |
| C3 ,4 | | | CE04LW1H100M | ELECTRO | 10UF | 50WV |
| C3 ,4 | | | CE04LW1H100M | ELECTRO | 10UF | 50WV |
| C5 ,6 | | | CC45FSL1H221J | CERAMIC | 220PF | J |
| C5 ,6 | | | CC45FSL1H221J | CERAMIC | 220PF | J |
| C7 ,8 | | | CE04LW1A101M | ELECTRO | 100UF | 10WV |
| C7 ,8 | | | CE04LW1A101M | ELECTRO | 100UF | 10WV |
| C9 ,10 | | | CC45FSL1H271J | CERAMIC | 270PF | J |
| C9 ,10 | | | CC45FSL1H271J | CERAMIC | 270PF | J |
| C11 ,12 | | | CQ93FMG1H123J | MYLAR | 0.012UF | J |
| C11 ,12 | | | CQ93FMG1H123J | MYLAR | 0.012UF | J |
| C13 ,14 | | | CK45FB1H332K | CERAMIC | 3300PF | K |
| C13 ,14 | | | CK45FB1H332K | CERAMIC | 3300PF | K |
| C15 ,16 | | | CE04LW1H4R7M | ELECTRO | 4.7UF | 50WV |
| C15 ,16 | | | CE04LW1H4R7M | ELECTRO | 4.7UF | 50WV |
| C17 ,18 | | | CC45FCH1H101J | CERAMIC | 100PF | J |
| C17 ,18 | | | CC45FCH1H101J | CERAMIC | 100PF | J |

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|-----------|----------|-----------|---------------|-------------|--------------|----------|
| C19 -38 | | | CC45FSL1H221J | CERAMIC | 220PF | J |
| C44 ,45 | | | CE04LW1E470M | ELECTRO | 47UF | 25WV |
| C46 ,47 | | | CQ93FMG1H823J | MYLAR | 0.082UF | J |
| C51 -54 | | | C91-1573-05 | MP-C | 0.10UF | J |
| C55 ,56 | | | CQ93FMG1H272J | MYLAR | 2700PF | J |
| C57 ,58 | | | CE04LW1H2R2M | ELECTRO | 2.2UF | 50WV |
| C62 ,63 | | | CE04KW1H3R3M | ELECTRO | 3.3UF | 50WV |
| C64 ,65 | | | CE04KW1H3R3M | ELECTRO | 3.3UF | 50WV |
| C64 ,65 | | | CE04KW2A3R3M | ELECTRO | 3.3UF | 100WV |
| C66 ,67 | | | CC45FSL1H331J | CERAMIC | 330PF | J |
| C68 | | | CC45FCH1H070D | CERAMIC | 7.0PF | D |
| C69 | | | CC45FCH1H080D | CERAMIC | 8.0PF | D |
| C70 ,71 | | | CK45FB1H222K | CERAMIC | 2200PF | K |
| C72 ,73 | | | CC45FCH1H101J | CERAMIC | 100PF | J |
| C74 ,75 | | | CE04KW1A221M | ELECTRO | 220UF | 10WV |
| C74 ,75 | | | CE04KW1E101M | ELECTRO | 100UF | 25WV |
| C76 ,77 | | | CC45FCH1H100D | CERAMIC | 10PF | D |
| C78 ,79 | | | CK45FB1H561K | CERAMIC | 560PF | K |
| C82 ,83 | | | CC45FCH1H100D | CERAMIC | 10PF | D |
| C84 ,85 | | | CE04KW1E470M | ELECTRO | 47UF | 25WV |
| C84 ,85 | | | CE04KW1H220M | ELECTRO | 22UF | 50WV |
| C86 ,87 | | | CC45FSL1H470J | CERAMIC | 47PF | J |
| C88 ,89 | | | CC45FSL2H470J | CERAMIC | 47PF | J |
| C90 ,91 | | | C91-1573-05 | MP-C | 0.10UF | J |
| C90 ,91 | | | C91-1577-05 | MP-C | 0.22UF | J |
| C92 ,93 | | | C91-1577-05 | MP-C | 0.22UF | J |
| C94 ,95 | | | CK45FB1H332K | CERAMIC | 3300PF | K |
| C111 ,112 | | | CE04KW1H3R3M | ELECTRO | 3.3UF | 50WV |
| C113 ,114 | | | CE04LW1H3R3M | ELECTRO | 3.3UF | 50WV |
| C115 ,116 | | | CC45FSL1H331J | CERAMIC | 330PF | J |
| C117 ,118 | | | CC45FCH1H050C | CERAMIC | 5.0PF | C |
| C119 ,120 | | | CK45FB1H222K | CERAMIC | 2200PF | K |
| C121 ,122 | | | CC45FCH1H101J | CERAMIC | 100PF | J |
| C123 ,124 | | | CE04KW1A221M | ELECTRO | 220UF | 10WV |
| C125 ,126 | | | CC45FCH1H100D | CERAMIC | 10PF | D |
| C127 ,128 | | | CK45FB1H561K | CERAMIC | 560PF | K |
| C133 ,134 | | | CE04LW1H220M | ELECTRO | 22UF | 50WV |
| C135 ,136 | | | CC45FSL1H470J | CERAMIC | 47PF | J |
| C137 ,138 | | | CC45FSL2H470J | CERAMIC | 47PF | J |
| C139 ,140 | | | C91-1573-05 | MP-C | 0.10UF | J |
| C139 ,140 | | | C91-1577-05 | MP-C | 0.22UF | J |
| C141 ,142 | | | C91-1577-05 | MP-C | 0.22UF | J |
| C143 ,144 | | | CK45FB1H332K | CERAMIC | 3300PF | K |
| C161 | | | CE04KW1H3R3M | ELECTRO | 3.3UF | 50WV |
| C163 | | | CE04KW1H3R3M | ELECTRO | 3.3UF | 50WV |
| C163 | | | CE04KW2A3R3M | ELECTRO | 3.3UF | 100WV |
| C164 | | | CE04LW1H3R3M | ELECTRO | 3.3UF | 50WV |
| C165 | | | CC45FSL1H331J | CERAMIC | 330PF | J |
| C166 | | | CC45FSL1H331J | CERAMIC | 330PF | J |
| C167 | | | CC45FCH1H060D | CERAMIC | 6.0PF | D |
| C168 | | | CC45FCH1H050C | CERAMIC | 5.0PF | C |
| C169 | | | CK45FB1H222K | CERAMIC | 2200PF | K |
| C170 | | | CK45FB1H222K | CERAMIC | 2200PF | K |
| C171 | | | CC45FCH1H101J | CERAMIC | 100PF | J |
| C172 | | | CC45FCH1H101J | CERAMIC | 100PF | J |

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| Ref. No | Add-ress | New Parts | Parts No. | Description | Desti-nation | Re-marks |
|----------|----------|-----------|---------------|---------------------|--------------|----------|
| C173 | | | CE04KW1A221M | ELECTRO 220UF 10WV | | 5 |
| C173 | | | CE04KW1E101M | ELECTRO 100UF 25WV | | 679 |
| C174 | | | CE04KW1A221M | ELECTRO 220UF 10WV | | 5 |
| C175 | | | CC45FCH1H100D | CERAMIC 10PF D | | 59 |
| C176 | | | CC45FCH1H100D | CERAMIC 10PF D | | 59 |
| C177 | | | CK45FB1H561K | CERAMIC 560PF K | | 59 |
| C178 | | | CK45FB1H561K | CERAMIC 560PF K | | 59 |
| C181 | | | CC45FCH1H100D | CERAMIC 10PF D | | 679 |
| C183 | | | CE04KW1E470M | ELECTRO 47UF 25WV | | 5 |
| C183 | | | CE04KW1H220M | ELECTRO 22UF 50WV | | 679 |
| C184 | | | CE04LW1H220M | ELECTRO 22UF 50WV | | 59 |
| C185 | | | CC45FSL1H470J | CERAMIC 47PF J | | 59 |
| C186 | | | CC45FSL1H470J | CERAMIC 47PF J | | 59 |
| C187 | | | CC45FSL2H470J | CERAMIC 47PF J | | 59 |
| C188 | | | CC45FSL2H470J | CERAMIC 47PF J | | 59 |
| C189 | | | C91-1573-05 | MP-C 0.10UF J | KP | |
| C189 | | | C91-1577-05 | MP-C 0.22UF J | YMHXTE | |
| C190 | | | C91-1573-05 | MP-C 0.10UF J | KP | 59 |
| C190 | | | C91-1577-05 | MP-C 0.22UF J | YMHXTE | 59 |
| C191 | | | C91-1577-05 | MP-C 0.22UF J | YMHXTE | 59 |
| C192 | | | C91-1577-05 | MP-C 0.22UF J | YMHXTE | 59 |
| C193 | | | CK45FB1H332K | CERAMIC 3300PF K | | |
| C195,196 | | | CK45FB1H332K | CERAMIC 3300PF K | | |
| C221,222 | | | CE04LW1H4R7M | ELECTRO 4.7UF 50WV | | 679 |
| C223,224 | | | CE04LW1C470M | ELECTRO 47UF 16WV | | 679 |
| C225 | | | CQ93FMG1H392J | MYLAR 3900PF J | | 679 |
| C226 | | | CC45FCH1H100D | CERAMIC 10PF D | | 679 |
| C227,228 | | | CE04LW1H220M | ELECTRO 22UF 50WV | | 59 |
| C229,230 | | | CE04LW1H220M | ELECTRO 22UF 50WV | | 679 |
| C231,232 | | | CC45FSL1H221J | CERAMIC 220PF J | | 679 |
| C233 | | | CK45FB1H471K | CERAMIC 470PF K | | 679 |
| C301,302 | | | C90-3984-05 | ELECTRO 4700UF 75WV | | 679 |
| C301,302 | | | C90-5749-05 | ELECTRO 1000UF 74WV | | 5 |
| C303 | | | CQ93FMG1H103J | MYLAR 0.010UF J | | |
| C304 | | | CE04LW0J221M | ELECTRO 220UF 6.3WV | | |
| C305 | | | CE04KW1V101M | ELECTRO 100UF 35WV | | |
| C306 | | | CE04LW2A101M | ELECTRO 100UF 100WV | | |
| C307 | | | CC45FSL1H181J | CERAMIC 180PF J | | 5 |
| C307 | | | CC45FSL1H221J | CERAMIC 220PF J | | 679 |
| C308 | | | CE04LW1H100M | ELECTRO 10UF 50WV | | |
| C309 | | | CE04LW1H220M | ELECTRO 22UF 50WV | | |
| C310,311 | | | CE04KW1H220M | ELECTRO 22UF 50WV | | |
| C312 | | | CE04LW1A101M | ELECTRO 100UF 10WV | | |
| C313,314 | | | CE04LW1E470M | ELECTRO 47UF 25WV | | 59 |
| C315 | | | CE04DW2A330M | ELECTRO 33UF 100WV | | |
| C316 | | | CE04LW2A100M | ELECTRO 10UF 100WV | | |
| C317,318 | | | CE04KW2A220M | ELECTRO 22UF 100WV | | |
| C319,320 | | | CC45FCH1H101J | CERAMIC 100PF J | | |
| C321 | | | CC45FCH1H100D | CERAMIC 10PF D | | |
| C322 | | | CC45FCH1H120J | CERAMIC 12PF J | | 5 |
| C322 | | | CC45FCH1H150J | CERAMIC 15PF J | | 679 |
| C323 | | | CK45FB1H102K | CERAMIC 1000PF K | | |
| C324,325 | | | CE04DW1C471M | ELECTRO 470UF 16WV | | |
| C326 | | | CC45FCH1H220J | CERAMIC 22PF J | | 5 |
| C351-353 | | | CC45FSL1H221J | CERAMIC 220PF J | | |

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| Ref. No | Add-ress | New Parts | Parts No. | Description | Desti-nation | Re-marks |
|----------|----------|-----------|---------------|---------------------------|--------------|----------|
| C354 | | | CQ93FMG1H122J | MYLAR 1200PF J | | |
| C355-359 | | | CK45FF1H472Z | CERAMIC 4700PF Z | | 59 |
| C360 | | | CK45FF1H472Z | CERAMIC 4700PF Z | | |
| C361 | | | CE04KW1H220M | ELECTRO 22UF 50WV | | |
| C362 | | | CE04LW1H220M | ELECTRO 22UF 50WV | | |
| C363 | | | CE04KW1C220M | ELECTRO 22UF 16WV | | 679 |
| C363 | | | CE04KW1E470M | ELECTRO 47UF 25WV | | 5 |
| C364 | | | CE04HW1H2R2M | NP-ELEC 2.2UF 50WV | | |
| C365 | | | CE04LW1A221M | ELECTRO 220UF 10WV | | |
| C366 | | | CE04LW1H4R7M | ELECTRO 4.7UF 50WV | | |
| C367 | | | CE04LW1A221M | ELECTRO 220UF 10WV | | |
| C368 | | | CE04LW1H4R7M | ELECTRO 4.7UF 50WV | | |
| C369 | | | CE04HW1C330M | NP-ELEC 33UF 16WV | | 679 |
| C369 | | | CE04HW1E220M | NP-ELEC 22UF 25WV | | 5 |
| C370 | | | CK45FB1H102K | CERAMIC 1000PF K | | |
| C450 | | | CK45FE2H103P | CERAMIC 0.010UF P | | |
| C451-453 | | | CK45FB2H102K | CERAMIC 1000PF K | | |
| C501,502 | | | CC45FSL1H221J | CERAMIC 220PF J | | |
| C600 | | | CE04KW1E101M | ELECTRO 100UF 25WV | | 5 |
| C603,604 | | | CE04KW1E470M | ELECTRO 47UF 25WV | | |
| C605,606 | | | CC45FCH1H820J | CERAMIC 82PF J | | 5 |
| C607,608 | | | CE04KW1H220M | ELECTRO 22UF 50WV | | 5 |
| CN1 | | | E40-8361-05 | PIN ASSY | | |
| CN2 | | | E40-3248-05 | PIN ASSY | | |
| CN3 | | | E40-3247-05 | PIN ASSY | | |
| CN4 | | | E40-8484-05 | FLAT CABLE CONNECTOR | | |
| CN5 | | | E40-8483-05 | FLAT CABLE CONNECTOR | | 5 |
| CN6 | | | E40-3259-05 | PIN ASSY | | |
| CN7 | | | E40-3253-05 | PIN ASSY | | |
| CN8 | | | E40-3254-05 | PIN ASSY | | |
| CN10-14 | | | E40-4871-05 | PIN ASSY | | 5 |
| CN15 | | | E40-4871-05 | PIN ASSY | | 59 |
| CN21 | | | E40-8429-05 | SOCKET FOR PIN ASSY | | |
| CN22 | | | E40-3253-05 | PIN ASSY | | |
| CN51 | | | E40-3247-05 | PIN ASSY | | |
| J1 ,2 | | * | E63-1246-05 | PIN JACK | | |
| J3 | | * | E63-1247-05 | PIN JACK | | |
| J4 | | * | E63-1248-05 | PIN JACK | | 679 |
| J5 | | * | E70-0150-05 | SCREW TERMINAL BOARD | | |
| J6 | | * | E70-0160-05 | LOCK TERMINAL BOARD | | 59 |
| J7 | | * | E70-0161-05 | LOCK TERMINAL BOARD | | 67 |
| J501 | | | E11-0190-05 | PHONE JACK (3P) | | |
| J501 | | | E11-0271-05 | PHONE JACK (METAL SLEEVE) | | |
| W1 ,2 | | | E31-0002-00 | JUMPER WIRE | KPYMIH | 6 |
| W1 ,2 | | | E31-0002-00 | JUMPER WIRE | X | 6 |
| W3 ,4 | | | E31-0002-00 | JUMPER WIRE | | 5 |
| W5 -7 | | | E31-0002-00 | JUMPER WIRE | | 679 |
| W8 | | | E31-0002-00 | JUMPER WIRE | | 679 |
| W8 | | | E31-0002-00 | JUMPER WIRE | KPYMHX | 5 |
| W13 | | | E31-0002-00 | JUMPER WIRE | | 59 |
| W20 -23 | | | E31-0002-00 | JUMPER WIRE | KP | 679 |
| W24 | | * | E29-1680-05 | LEAD PLATE | | |
| W25 | | * | E29-1685-05 | LEAD PLATE | | |
| W26 | | * | E29-1681-05 | LEAD PLATE | | |

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KRF-V6060D/V7060D/V8060D/X9060D/VR-6050/6060/6070
PARTS LIST

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| Ref. No | Add-ress | New Parts | Parts No. | Description | Desti-nation | Re-marks |
|-----------|----------|-----------|--------------|-------------------------|--------------|----------|
| W27 | | * | E29-1678-05 | LEAD PLATE | | |
| W49 | | * | E29-1688-05 | LEAD PLATE | | |
| W350,351 | | * | E29-1677-14 | LEAD PLATE | | |
| E501 | | | J11-0808-05 | WIRE CLAMPER | YMHXTE | |
| L1 -5 | | | L39-0085-05 | PHASE COMPENSATION COIL | | 59 |
| L6 | | | L39-0085-05 | PHASE COMPENSATION COIL | | |
| R1 ,2 | | | RD14BB2C102J | RD 1.0K J 1/6W | | 579 |
| R1 ,2 | | | RD14BB2C102J | RD 1.0K J 1/6W | TE | 6 |
| R3 ,4 | | | RD14BB2C303J | RD 30K J 1/6W | | 579 |
| R3 ,4 | | | RD14BB2C303J | RD 30K J 1/6W | TE | 6 |
| R5 ,6 | | | RD14BB2C101J | RD 100 J 1/6W | | 579 |
| R5 ,6 | | | RD14BB2C101J | RD 100 J 1/6W | TE | 6 |
| R7 ,8 | | | RD14BB2C361J | RD 360 J 1/6W | | 579 |
| R7 ,8 | | | RD14BB2C361J | RD 360 J 1/6W | TE | 6 |
| R9 ,10 | | | RD14BB2C274J | RD 270K J 1/6W | | 579 |
| R9 ,10 | | | RD14BB2C274J | RD 270K J 1/6W | TE | 6 |
| R11 ,12 | | | RD14BB2C223J | RD 22K J 1/6W | | 579 |
| R11 ,12 | | | RD14BB2C223J | RD 22K J 1/6W | TE | 6 |
| R13 ,14 | | | RD14BB2C224J | RD 220K J 1/6W | KPYMIH | 6 |
| R13 ,14 | | | RD14BB2C224J | RD 220K J 1/6W | X | 6 |
| R13 ,14 | | | RD14BB2C473J | RD 47K J 1/6W | | 579 |
| R13 ,14 | | | RD14BB2C473J | RD 47K J 1/6W | TE | 6 |
| R65 ,66 | | | RD14BB2C152J | RD 1.5K J 1/6W | | 679 |
| R65 ,66 | | | RD14BB2C222J | RD 2.2K J 1/6W | | 5 |
| R79 ,80 | | | RD14BB2C162J | RD 1.6K J 1/6W | | 5 |
| R79 ,80 | | | RD14BB2C391J | RD 390 J 1/6W | KPYIHM | 69 |
| R79 ,80 | | | RD14BB2C391J | RD 390 J 1/6W | X | 69 |
| R79 ,80 | | | RD14BB2C431J | RD 430 J 1/6W | TE | 679 |
| R81 -84 | | | RD14NB2E221J | RD 220 J 1/4W | | |
| R85 ,86 | | | RD14NB2E562J | RD 5.6K J 1/4W | | |
| R87 ,88 | | | RD14NB2E331J | RD 330 J 1/4W | | |
| R93 -96 | | | RD14NB2E470J | RD 47 J 1/4W | | |
| R97 ,98 | | | RD14NB2E221J | RD 220 J 1/4W | | |
| R99 ,100 | | | RD14NB2E330J | RD 33 J 1/4W | | |
| R101 ,102 | | | RS14KB3D4R7J | FL-PROOF RS 4.7 J 2W | | |
| R103 ,104 | | | RS14KB3D391J | FL-PROOF RS 390 J 2W | | |
| R129 ,130 | | | RD14BB2C162J | RD 1.6K J 1/6W | | 5 |
| R129 ,130 | | | RD14BB2C391J | RD 390 J 1/6W | KPYIHM | 69 |
| R129 ,130 | | | RD14BB2C391J | RD 390 J 1/6W | X | 69 |
| R129 ,130 | | | RD14BB2C431J | RD 430 J 1/6W | TE | 679 |
| R131-134 | | | RD14NB2E221J | RD 220 J 1/4W | | |
| R135,136 | | | RD14NB2E562J | RD 5.6K J 1/4W | | |
| R137,138 | | | RD14NB2E331J | RD 330 J 1/4W | | |
| R143-146 | | | RD14NB2E470J | RD 47 J 1/4W | | |
| R147,148 | | | RD14NB2E221J | RD 220 J 1/4W | | |
| R149,150 | | | RD14NB2E330J | RD 33 J 1/4W | | |
| R151,152 | | | RS14KB3D4R7J | FL-PROOF RS 4.7 J 2W | | |
| R164 | | | RD14BB2C104J | RD 100K J 1/6W | | 59 |
| R166 | | | RD14BB2C222J | RD 2.2K J 1/6W | | 59 |
| R168 | | | RD14BB2C473J | RD 47K J 1/6W | | 59 |
| R170 | | | RD14BB2C101J | RD 100 J 1/6W | | 59 |
| R172 | | | RD14BB2C682J | RD 6.8K J 1/6W | | 59 |
| R174 | | | RD14BB2C332J | RD 3.3K J 1/6W | | 59 |

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| Ref. No | Add-ress | New Parts | Parts No. | Description | Desti-nation | Re-marks |
|----------|----------|-----------|--------------|-----------------------|--------------|----------|
| R176 | | | RD14BB2C152J | RD 1.5K J 1/6W | | 59 |
| R178 | | | RD14BB2C152J | RD 1.5K J 1/6W | | 59 |
| R179 | | | RD14BB2C162J | RD 1.6K J 1/6W | | 5 |
| R179 | | | RD14BB2C391J | RD 390 J 1/6W | KPYIHM | 69 |
| R179 | | | RD14BB2C391J | RD 390 J 1/6W | X | 69 |
| R179 | | | RD14BB2C431J | RD 430 J 1/6W | TE | 679 |
| R180 | | | RD14BB2C162J | RD 1.6K J 1/6W | | 5 |
| R180 | | | RD14BB2C472J | RD 4.7K J 1/6W | KPMX | 9 |
| R180 | | | RD14BB2C512J | RD 5.1K J 1/6W | E | 9 |
| R181 | | | RD14NB2E221J | RD 220 J 1/4W | | |
| R182 | | | RD14NB2E221J | RD 220 J 1/4W | | 59 |
| R183 | | | RD14NB2E221J | RD 220 J 1/4W | | |
| R184 | | | RD14NB2E221J | RD 220 J 1/4W | | 59 |
| R185 | | | RD14NB2E562J | RD 5.6K J 1/4W | | |
| R186 | | | RD14NB2E562J | RD 5.6K J 1/4W | | 59 |
| R187 | | | RD14NB2E331J | RD 330 J 1/4W | | |
| R188 | | | RD14NB2E331J | RD 330 J 1/4W | | 59 |
| R190 | | | RD14BB2C473J | RD 47K J 1/6W | | 59 |
| R192 | | | RD14BB2C102J | RD 1.0K J 1/6W | | 59 |
| R193 | | | RD14NB2E470J | RD 47 J 1/4W | | |
| R194 | | | RD14NB2E470J | RD 47 J 1/4W | | 59 |
| R195 | | | RD14NB2E470J | RD 47 J 1/4W | | |
| R196 | | | RD14NB2E470J | RD 47 J 1/4W | | 59 |
| R197 | | | RD14NB2E221J | RD 220 J 1/4W | | |
| R198 | | | RD14NB2E221J | RD 220 J 1/4W | | 59 |
| R199 | | | RD14NB2E330J | RD 33 J 1/4W | | |
| R200 | | | RD14NB2E330J | RD 33 J 1/4W | | 59 |
| R201 | | | RS14KB3D4R7J | FL-PROOF RS 4.7 J 2W | | |
| R202 | | | RS14KB3D4R7J | FL-PROOF RS 4.7 J 2W | | 59 |
| R223,224 | | | RD14BB2C473J | RD 47K J 1/6W | | 679 |
| R225 | | | RD14BB2C821J | RD 820 J 1/6W | | 679 |
| R226 | | | RD14BB2C472J | RD 4.7K J 1/6W | | 679 |
| R227,228 | | | RD14BB2C473J | RD 47K J 1/6W | | 679 |
| R231,232 | | | RD14BB2C102J | RD 1.0K J 1/6W | | 679 |
| R233,234 | | | RD14BB2C104J | RD 100K J 1/6W | | 679 |
| R235,236 | | | RD14BB2C470J | RD 47 J 1/6W | | 679 |
| R237 | | | RD14BB2C102J | RD 1.0K J 1/6W | | 679 |
| R301 | | | RS14KB3D182J | FL-PROOF RS 1.8K J 2W | | |
| R303 | | | RD14NB2E1R0J | RD 1 J 1/4W | | 679 |
| R303 | | | RD14NB2E1R0J | RD 1 J 1/4W | TE | 5 |
| R303 | | | RD14NB2E561J | RD 560 J 1/4W | KPYMHX | 5 |
| R304 | | | RS14KB3A103J | FL-PROOF RS 10K J 1W | | 679 |
| R304 | | | RS14KB3A103J | FL-PROOF RS 10K J 1W | TE | 5 |
| R304 | | | RS14KB3A822J | FL-PROOF RS 8.2K J 1W | KPYMHX | 5 |
| R306 | | | RD14NB2E101J | RD 100 J 1/4W | | |
| R307 | | | RD14NB2E822J | RD 8.2K J 1/4W | | |
| R310,311 | | | RS14KB3A680J | FL-PROOF RS 68 J 1W | | |
| R314 | | | RS14KB3A681J | FL-PROOF RS 680 J 1W | | |
| R315,316 | | | RD14NB2E271J | RD 270 J 1/4W | | 59 |
| R317 | | | RS14KB3D122J | FL-PROOF RS 1.2K J 2W | KPTE | |
| R317 | | | RS14KB3D222J | FL-PROOF RS 2.2K J 2W | YMIHX | |
| R318 | | | RS14KB3D152J | FL-PROOF RS 1.5K J 2W | KPTE | |
| R318 | | | RS14KB3D222J | FL-PROOF RS 2.2K J 2W | YMIHX | |
| R321,322 | | | RD14NB2E1R0J | RD 1 J 1/4W | | |
| R325,326 | | | RD14NB2E472J | RD 4.7K J 1/4W | | |

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| Ref. No | Address | New Parts | Parts No. | Description | Destination | Remarks |
|----------|---------|-----------|--------------|------------------------------|-------------|---------|
| R331-333 | | | RS14KB3D182J | FL-PROOF RS 1.8K J 2W | | |
| R342 | | | RS14KB3A100J | FL-PROOF RS 10 J 1W | | |
| R343 | | | RS14KB3A470J | FL-PROOF RS 47 J 1W | | |
| R354 | | | RD14BB2C473J | RD 47K J 1/6W | | 59 |
| R355 | | | RD14BB2C102J | RD 1.0K J 1/6W | | 59 |
| R358,359 | | | RD14BB2C103J | RD 10K J 1/6W | | 679 |
| R358,359 | | | RD14BB2C912J | RD 9.1K J 1/6W | | 5 |
| R383,384 | | | RD14BB2C103J | RD 10K J 1/6W | | 679 |
| R383,384 | | | RD14BB2C912J | RD 9.1K J 1/6W | | 5 |
| R402 | | | RD14BB2C303J | RD 30K J 1/6W | | 59 |
| R403 | | | RD14BB2C103J | RD 10K J 1/6W | | 679 |
| R403 | | | RD14BB2C912J | RD 9.1K J 1/6W | | 5 |
| R404 | | | RD14BB2C103J | RD 10K J 1/6W | | 79 |
| R404 | | | RD14BB2C912J | RD 9.1K J 1/6W | | 5 |
| R406 | | | RD14BB2C101J | RD 100 J 1/6W | | 59 |
| R408 | | | RD14BB2C471J | RD 470 J 1/6W | | 59 |
| R410 | | | RD14BB2C333J | RD 33K J 1/6W | | 59 |
| R436 | | | RD14BB2C102J | RD 1.0K J 1/6W | | 59 |
| R437,438 | | | RD14BB2C102J | RD 1.0K J 1/6W | | 679 |
| R454 | | | RS14KB3A391J | FL-PROOF RS 390 J 1W | | |
| R476 | | | RD14NB2E561J | RD 560 J 1/4W | | |
| R603,604 | | | RD14BB2C152J | RD 1.5K J 1/6W | | 679 |
| R603,604 | | | RD14BB2C471J | RD 470 J 1/6W | | 5 |
| R611,612 | | | RD14BB2C271J | RD 270 J 1/6W | | 5 |
| R613 | | | RD14BB2C473J | RD 47K J 1/6W | | 5 |
| R614 | | | RD14BB2C102J | RD 1.0K J 1/6W | | 5 |
| R615,616 | | | RD14BB2C103J | RD 10K J 1/6W | | 5 |
| R617-620 | | | RD14BB2C472J | RD 4.7K J 1/6W | | 5 |
| R621,622 | | | RD14BB2C133J | RD 13K J 1/6W | | 5 |
| R623,624 | | | RD14BB2C104J | RD 100K J 1/6W | | 5 |
| VR1 -5 | | | R32-0032-05 | SEMI FIXED VARIABLE RESISTOR | | |
| VR6 | | | R32-0032-05 | SEMI FIXED VARIABLE RESISTOR | | 59 |
| K1 | | * | S76-0134-05 | MAGNETIC RELAY | KPYIMH | |
| K2 -5 | | | S76-0045-15 | MAGNETIC RELAY | X | |
| K2 -5 | | | S76-0045-15 | MAGNETIC RELAY | TE | |
| K2 -5 | | | S76-0098-05 | MAGNETIC RELAY | | |
| D1 -5 | | | HSS104A | DIODE | | |
| D1 -5 | | | 1SS133 | DIODE | | |
| D6 | | | HSS104A | DIODE | | 59 |
| D6 | | | 1SS133 | DIODE | | 59 |
| D11 ,12 | | | D5SBA20F03 | DIODE | | |
| D11 ,12 | | | TS6P03G-B | DIODE | | |
| D13 | | | HSS104A | DIODE | | |
| D13 | | | 1SS133 | DIODE | | |
| D14 ,15 | | | 1SR139-400 | DIODE | | |
| D16 | | | HSS104A | DIODE | | |
| D16 | | | 1SS133 | DIODE | | |
| D17 | | | MTZJ16(B) | ZENER DIODE | | |
| D17 | | | RD16ES(B) | ZENER DIODE | | |
| D18 | | | MTZJ15(B) | ZENER DIODE | | |
| D18 | | | RD15ES(B) | ZENER DIODE | | |
| D19 | | | MTZJ16(B) | ZENER DIODE | | |
| D19 | | | RD16ES(B) | ZENER DIODE | | |
| D20 ,21 | | | MTZJ6.8(B) | ZENER DIODE | | |

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|----------|---------|-----------|------------|-------------|-------------|---------|
| D20 ,21 | | | RD6.8ES(B) | ZENER DIODE | | |
| D22 | | | MTZJ5.1(B) | ZENER DIODE | | |
| D22 | | | RD5.1ES(B) | ZENER DIODE | | |
| D23 | | | MTZJ10(B) | ZENER DIODE | | KPTE |
| D23 | | | MTZJ11(B) | ZENER DIODE | | YMIHX |
| D23 | | | RD10ES(B) | ZENER DIODE | | KPTE |
| D23 | | | RD11ES(B) | ZENER DIODE | | YMIHX |
| D24 | | | MTZJ10(B) | ZENER DIODE | | TE |
| D24 | | | MTZJ15(B) | ZENER DIODE | | KP |
| D24 | | | MTZJ7.5(B) | ZENER DIODE | | YMIHX |
| D24 | | | RD10ES(B) | ZENER DIODE | | TE |
| D24 | | | RD15ES(B) | ZENER DIODE | | KP |
| D24 | | | RD7.5ES(B) | ZENER DIODE | | YMIHX |
| D25 | | | MTZJ24(B) | ZENER DIODE | | KPTE |
| D25 | | | MTZJ30(B) | ZENER DIODE | | YMIHX |
| D25 | | | RD24ES(B) | ZENER DIODE | | KPTE |
| D25 | | | RD30ES(B) | ZENER DIODE | | YMHX |
| D26 | | | MTZJ5.1(B) | ZENER DIODE | | TE |
| D26 | | | RD5.1ES(B) | ZENER DIODE | | TE |
| D27 | | | 1SS244 | DIODE | | 5 |
| D28 ,29 | | | HSS104A | DIODE | | |
| D28 ,29 | | | 1SS133 | DIODE | | |
| D30 | | | HSS104A | DIODE | | 59 |
| D30 | | | 1SS133 | DIODE | | 59 |
| D32 -35 | | | HSS104A | DIODE | | |
| D32 -35 | | | 1SS133 | DIODE | | |
| D51 ,52 | | | 1SS244 | DIODE | | |
| D53 ,54 | | | HSS104A | DIODE | | |
| D53 ,54 | | | 1SS133 | DIODE | | |
| D55 ,56 | | | 1SS244 | DIODE | | |
| D57 ,58 | | | HSS104A | DIODE | | |
| D57 ,58 | | | 1SS133 | DIODE | | |
| D59 | | | 1SS244 | DIODE | | |
| D60 | | | 1SS244 | DIODE | | 59 |
| D61 | | | HSS104A | DIODE | | |
| D61 | | | 1SS133 | DIODE | | |
| D63 | | | MTZJ3.9(B) | ZENER DIODE | | |
| D63 | | | RD3.9ES(B) | ZENER DIODE | | |
| D64 | | | HSS104A | DIODE | | |
| D64 | | | 1SS133 | DIODE | | |
| D65 | | | MTZJ3.9(B) | ZENER DIODE | | |
| D65 | | | RD3.9ES(B) | ZENER DIODE | | |
| D66 | | | HSS104A | DIODE | | |
| D66 | | | 1SS133 | DIODE | | |
| D67 | | | MTZJ3.9(B) | ZENER DIODE | | |
| D67 | | | RD3.9ES(B) | ZENER DIODE | | |
| D68 | | | HSS104A | DIODE | | |
| D68 | | | 1SS133 | DIODE | | |
| D69 | | | MTZJ3.9(B) | ZENER DIODE | | |
| D69 | | | RD3.9ES(B) | ZENER DIODE | | |
| D221 | | | MTZJ7.5(B) | ZENER DIODE | | 59 |
| D221 | | | RD7.5ES(B) | ZENER DIODE | | 59 |
| D600,601 | | | MTZJ7.5(B) | ZENER DIODE | | 59 |
| D600,601 | | | RD7.5ES(B) | ZENER DIODE | | 59 |
| D602-604 | | | HSS104A | DIODE | | |

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PARTS LIST

KRF-V6060D/V7060D/V8060D/X9060D/VR-6050/6060/6070

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| Ref. No | Add-ress | New Parts | Parts No. | Description | Desti-nation | Re-marks |
|--|------------------|-----------|--|--|--------------|-----------------------|
| D602-604 D605-607 D605-607 IC1 IC1 | | | 1SS133 MTZJ7.5(B) RD7.5ES(B) NJM4580L NJM4580L | DIODE ZENER DIODE ZENER DIODE ANALOGUE IC ANALOGUE IC | TE | 5 5 579 6 |
| IC2 IC3 IC4 IC5 IC6 | | | M61516FP BU4066BC NJM4565D BU4066BC NJM4580D-D | ANALOGUE IC ANALOGUE IC ANALOGUE IC ANALOGUE IC IC(OP AMP X2) | | 5 679 59 5 |
| Q1 -4 Q5 ,6 Q7 -10 Q11 ,12 Q13 ,14 | | | 2SA992(F,E) 2SA1123(R,S) 2SC2631(R,S) TRAIT3KN TRAIT3KP | TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR | | |
| Q21 -24 Q25 ,26 Q27 -30 Q31 ,32 Q33 ,34 | | | 2SA992(F,E) 2SA1123(R,S) 2SC2631(R,S) TRAIT3KN TRAIT3KP | TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR | | |
| Q41 Q42 Q43 Q44 Q45 | | | 2SA992(F,E) 2SA992(F,E) 2SA992(F,E) 2SA992(F,E) 2SA1123(R,S) | TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR | | 59 59 |
| Q46 Q47 Q48 Q49 Q50 | | | 2SA1123(R,S) 2SC2631(R,S) 2SC2631(R,S) 2SC2631(R,S) 2SC2631(R,S) | TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR | | 59 59 59 |
| Q51 Q52 Q53 Q54 Q301 | | | TRAIT3KN TRAIT3KN TRAIT3KP TRAIT3KP KTC3200 | TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR | | 59 59 59 |
| Q302 Q302 Q303 Q304 Q305 | △ △ △ △ | | DTC113ZSA UN4219 2SC3940A(R,S) 2SB1640 UN421N | DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR | | |
| Q306 Q307 Q308 Q309-312 Q313 | △ △ △ △ | * | 2SB1640 2SD2525 2SA992(F,E) KTC3200 UN421N | TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR | TE | 5 |
| Q331-335 Q336 Q337,338 Q351,352 Q351,352 | | | 2SC2878(B) 2SC2878(B) 2SC2878(B) DTC124ESA UN4212 | TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR | | 59 679 59 59 |
| Q353-357 Q358 Q359 Q360,361 Q362 | | | 2SC1845(F,E) 2SC1845(F,E) 2SA992(F,E) 2SC1845(F,E) 2SA992(F,E) | TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR | | 59 |

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| Ref. No | Add-ress | New Parts | Parts No. | Description | Desti-nation | Re-marks |
|--|----------|-----------|--|--|--|--|
| Q363,364 Q365 Q602-604 Q605,606 Q607 | | | 2SC1845(F,E) 2SA992(F,E) 2SC1845(F,E) 2SC2878(B) 2SA992(F,E) | TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR | | 5 5 |
| Q608,609 Q608,609 | | | DTC124ESA UN4212 | DIGITAL TRANSISTOR DIGITAL TRANSISTOR | | 5 5 |
| DISPLAY UNIT (X14-742X-XX) VR-6050, KRF-V6060D/-S/V7060D/-S/X9060D-G(Htype) | | | | | | |
| D734 D741-745 D746-752 D753 D754 | | | B30-2545-05 B30-2545-05 B30-2567-05 B30-2545-05 B30-2567-05 | LED(RED3(160)) LED(RED3(160)) LED(RED(80) HI-BR) LED(RED3(160)) LED(RED(80) HI-BR) | | |
| D755 | | | B30-2545-05 | LED(RED3(160)) | | |
| C101 C103 C104 C201 C202 | | | CC45FSL1H101J CK73GB1H103K CC73GCH1H101J CE04KW2A101M CC73GCH1H180J | CERAMIC CHIP C CHIP C ELECTRO CHIP C | 100PF 0.010UF 100PF 100UF 18PF | J K J 100WV J |
| C401 C402 C403 C404-407 C408,409 | | | CK45FE2H103P CE04KW1E222M CE04KW1E102M CK73GB1H103K CE04KW1C470M | CERAMIC ELECTRO ELECTRO CHIP C ELECTRO | 0.010UF 2200UF 1000UF 0.010UF 47UF | P 25WV 25WV K 16WV |
| C410 C411 C451 C452 C452 | | | CC73GCH1H680J CC73GCH1H820J CK45FF1H103Z CQ93FMG1H104J CQ93FMG1H393J | CHIP C CHIP C CERAMIC MYLAR MYLAR | 68PF 82PF 0.010UF 0.10UF 0.039UF | J J Z J J KP TE |
| C452 C452 C453 C453 C453 | | | CQ93FMG1H473J CQ93FMG1H683J CE04LW1C332M CE04LW1E332M CE04LW1E332M | MYLAR MYLAR ELECTRO ELECTRO ELECTRO | 0.047UF 0.068UF 3300UF 3300UF 3300UF | J J 16WV 25WV 25WV HX YMI KP TE YMIHX |
| C454 C455 C456,457 C458 C459 | | | CE04LW1H100M CE04LW0J222M CK45FF1H103Z CE04LW1H100M CE04LW1H010M | ELECTRO ELECTRO CERAMIC ELECTRO ELECTRO | 10UF 2200UF 0.010UF 10UF 1.0UF | 50WV 6.3WV Z 50WV 50WV YMI |
| C501-504 C505,506 C507,508 C509 C510 | | | CC45FCH1H101J CK45FB1H102K CC45FCH1H101J CK45FB1H471K CC73GCH1H101J | CERAMIC CERAMIC CERAMIC CERAMIC CHIP C | 100PF 1000PF 100PF 470PF 100PF | J K J K J |
| C511 C601-606 C607 C608-611 C651-654 | | | CC45FCH1H101J CC45FSL1H470J CC45FSL1H470J CE04LW1E470M CC45FSL1H470J | CERAMIC CERAMIC CERAMIC ELECTRO CERAMIC | 100PF 47PF 47PF 47UF 47PF | J J J 25WV H H |
| C655,656 C657,658 C659-662 C663 C664 | | | CC45FSL1H470J CC45FSL1H470J CC45FSL1H470J CK45FF1H103Z CE04LW1C470M | CERAMIC CERAMIC CERAMIC CERAMIC ELECTRO | 47PF 47PF 47PF 0.010UF 47UF | J J J Z H H |

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|----------|---------|-----------|---------------|-----------------------|-------------|---------|
| C665 | | | CK45FF1H103Z | CERAMIC 0.010UF | Z | H 5 |
| C666 | | | CE04LW1C470M | ELECTRO 47UF 16WV | Z | H 5 |
| C667 | | | CK45FF1H103Z | CERAMIC 0.010UF | Z | H 5 |
| C668 | | | CE04LW1C470M | ELECTRO 47UF 16WV | Z | H 5 |
| C669 | | | CK45FF1H103Z | CERAMIC 0.010UF | Z | H 5 |
| C670 | | | CE04LW1C470M | ELECTRO 47UF 16WV | Z | H 5 |
| C671 | | | CE04LW1C470M | ELECTRO 47UF 16WV | Z | H 5 |
| C672 | | | CK45FF1H103Z | CERAMIC 0.010UF | Z | H 5 |
| C673 | | | CE04LW1C470M | ELECTRO 47UF 16WV | Z | H 5 |
| C674-677 | | | CE04LW1H100M | ELECTRO 10UF 50WV | Z | H 5 |
| C693 | | | CC45FSL1H101J | CERAMIC 100PF | J | |
| C701 | | | CC73GCH1H221J | CHIP C 220PF | J | |
| C702 | | | CE04LW1H101M | ELECTRO 100UF 50WV | J | |
| C703,704 | | | CC73GCH1H102J | CHIP C 1000PF | J | |
| C705 | | | CC73GCH1H181J | CHIP C 180PF | J | |
| C741 | | | CK73EF1E105Z | CHIP C 1.0UF | Z | |
| C761,762 | | | CK73GB1H103K | CHIP C 0.010UF | K | |
| C763,764 | | | CK45FF1H103Z | CERAMIC 0.010UF | Z | |
| C765,766 | | | CK73GB1H103K | CHIP C 0.010UF | K | |
| C777 | | | CK45FB1H102K | CERAMIC 1000PF | K | |
| C778 | | | CC45FCH1H101J | CERAMIC 100PF | J | |
| C779 | | | CE04LW1A101M | ELECTRO 100UF 10WV | J | |
| C780 | | | CC73GCH1H270J | CHIP C 27PF | J | |
| C791 | | | CE04RW0J470M | ELECTRO 47UF 6.3WV | J | |
| C792 | | | CE04LW1C220M | ELECTRO 22UF 16WV | J | |
| C793,794 | | | CK45FF1H103Z | CERAMIC 0.010UF | Z | |
| C811 | | | CK45FF1H103Z | CERAMIC 0.010UF | Z | TE 67 |
| C812,813 | | | CC45FCH1H270J | CERAMIC 27PF | J | TE 67 |
| C814 | | | CC45FCH1H101J | CERAMIC 100PF | J | TE 67 |
| C815 | | | CE04LW1A470M | ELECTRO 47UF 10WV | J | TE 67 |
| C816 | | | CK45FB1H561K | CERAMIC 560PF | K | TE 67 |
| C817 | | | CK45FF1H103Z | CERAMIC 0.010UF | Z | TE 67 |
| C818 | | | CC45FSL1H271J | CERAMIC 270PF | J | TE 67 |
| C819 | | | CE04LW1H2R2M | ELECTRO 2.2UF 50WV | Z | TE 67 |
| C831 | | | CK45FF1H103Z | CERAMIC 0.010UF | Z | YMI 6 |
| C832 | | | CE04LW1H2R2M | ELECTRO 2.2UF 50WV | Z | YMI 6 |
| C833 | | | CK45FF1H103Z | CERAMIC 0.010UF | Z | YMI 6 |
| C841 | | | CE04EW0J102M | ELECTRO 1000UF 6.3WV | KP | 6 |
| C842 | | | C90-1826-05 | BACKUP-C 0.047F 5.5WV | TE | 67 |
| C842 | | | C90-1826-05 | BACKUP-C 0.047F 5.5WV | YMIHX | 67 |
| C843 | | | CE04PW1H010M | ELECTRO 1UF 50WV | Z | |
| C844 | | | CK45FF1H103Z | CERAMIC 0.010UF | Z | |
| C845 | | | CK73GB1H103K | CHIP C 0.010UF | K | |
| C851 | | | CE04LW1H100M | ELECTRO 10UF 50WV | Z | |
| C852-855 | | | CC45FSL1H221J | CERAMIC 220PF | J | |
| C856,857 | | | CK45FF1H103Z | CERAMIC 0.010UF | Z | |
| C858 | | | CE04PW1A101M | ELECTRO 100UF 10WV | Z | |
| C907 | | | CK73GB1H103K | CHIP C 0.010UF | K | |
| C908 | | | CK45FF1H103Z | CERAMIC 0.010UF | Z | |
| C909 | | | CK45FF1H103Z | CERAMIC 0.010UF | Z | YMI 6 |
| CN1 | | | E40-8386-05 | PIN ASSY | | YMI 6 |
| CN2 | | | E40-3261-05 | PIN ASSY | | |
| CN41 | | | E40-3261-05 | PIN ASSY | | |
| CN45 | | | E40-4245-05 | PIN ASSY | | |
| CN46 | | | E40-4632-05 | PIN ASSY | | TE 67 |

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|---------------|---------|-----------|-------------|---------------------------|-------------|---------|
| CN46 | | | E40-4632-05 | PIN ASSY | | YMIHX |
| CN47 | | | E40-4245-05 | PIN ASSY | | KPHX |
| CN47 | | | E40-4245-05 | PIN ASSY | | TE 67 |
| CN48 | | | E40-4428-05 | PIN ASSY | | YMI 6 |
| CN49 | | | E40-3246-05 | PIN ASSY | | |
| CN50 | | | E40-3251-05 | PIN ASSY | | |
| CN65 | | | E40-3249-05 | PIN ASSY | | |
| CN67 | | | E40-3246-05 | PIN ASSY | | |
| CN68 | | | E40-3248-05 | PIN ASSY | | |
| CN70 | | | E40-3261-05 | PIN ASSY | | |
| CN80 | | | E40-3261-05 | PIN ASSY | | |
| J2 | | | E03-0148-05 | AC OUTLET | | KPY 6 |
| J3 | | | E03-0149-05 | AC OUTLET | | E 7 |
| J3 | | | E03-0149-05 | AC OUTLET | | MIE 6 |
| J4 | | | E03-0310-05 | AC OUTLET | | T 6 |
| J5 | | | E03-0325-05 | AC OUTLET | | X 6 |
| J20 | | * | E63-1251-05 | PIN JACK | | |
| J21 | | * | E56-0033-05 | CYLINDRICAL RECEPTACLE | | |
| J61,62 | | * | E63-1253-05 | PIN JACK | | |
| J63 | | * | E63-1252-05 | PIN JACK | | H 5 |
| J65,66 | | * | E56-0040-05 | CYLINDRICAL RECEPTACLE | | H 5 |
| J67 | | * | E56-0040-05 | CYLINDRICAL RECEPTACLE | | |
| J68 | | * | E56-0042-05 | CYLINDRICAL RECEPTACLE | | 67 |
| P1 | | | E23-1785-05 | TERMINAL | | YMI 6 |
| W104 | | | E31-0002-00 | JUMPER WIRE | | TE 6 |
| W111 | | | E31-0002-00 | JUMPER WIRE | | KP 6 |
| W121 | | | E31-0002-00 | JUMPER WIRE | | KP 6 |
| W141 | | | E31-0002-00 | JUMPER WIRE | | YMI 6 |
| W202 | | | E31-0002-00 | JUMPER WIRE | | H 5 |
| W302,303 | | | E31-0002-00 | JUMPER WIRE | | TE 67 |
| W719 | | | E31-0002-00 | JUMPER WIRE | | YMI 6 |
| W723 | | | E31-0002-00 | JUMPER WIRE | | YMI 6 |
| W726 | | | E31-0002-00 | JUMPER WIRE | | YMI 6 |
| W730 | | | E31-0002-00 | JUMPER WIRE | | YMI 6 |
| W950 | | | E31-0002-00 | JUMPER WIRE | | 67 |
| W960 | | | E31-0002-00 | JUMPER WIRE | | KP 6 |
| Δ F1 | | | F05-4025-05 | FUSE (SEMKO) (250V T4A L) | | TE 67 |
| Δ F1 | | | F05-4025-05 | FUSE (SEMKO) (250V T4A L) | | YMIHX |
| Δ F1 | | | F50-0078-05 | FUSE (5X20) | | KP 6 |
| Δ F2 | | | F06-1022-05 | FUSE (SEMKO) (250V T1AL) | | TE 67 |
| Δ F2 | | | F06-1022-05 | FUSE (SEMKO) (250V T1AL) | | YMIX 6 |
| Δ F3 | | | F05-4025-05 | FUSE (SEMKO) (250V T4A L) | | TYMI 6 |
| CN3,4 | | * | J19-6287-03 | HOLDER | | |
| CN11,12 | | | J13-0075-05 | FUSE CLIP | | YMI 6 |
| CN21,22 | | | J13-0075-05 | FUSE CLIP | | TE 67 |
| CN21,22 | | | J13-0075-05 | FUSE CLIP | | YMIX 6 |
| Δ E603 | | | J19-6288-03 | HOLDER | | H 5 |
| E701 | | | J11-0809-05 | WIRE CLAMPER | | |
| E702,703 | | | J11-0808-05 | WIRE CLAMPER | | |
| E705 | | | J11-0808-05 | WIRE CLAMPER | | |
| Δ T1 | | | L07-2758-05 | POWER TRANSFORMER | | H 5 |
| Δ T1 | | | L07-2758-05 | POWER TRANSFORMER | | HX 6 |

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PARTS LIST

KRF-V6060D/V7060D/V8060D/X9060D/VR-6050/6060/6070

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| Ref. No | Add-ress | New Parts | Parts No. | Description | Desti-nation | Re-marks |
|----------|----------|-----------|--------------|------------------------------|--------------|----------|
| △ T1 | | | L07-2761-05 | POWER TRANSFORMER | TE | 67 |
| △ T1 | | | L07-2805-05 | POWER TRANSFORMER | YMI | 6 |
| △ T1 | | | L07-2809-05 | POWER TRANSFORMER | KP | 6 |
| X701 | | | L78-0725-05 | RESONATOR (8.38MHZ) | | |
| X811 | | | L77-2002-05 | CRYSTAL RESONATOR (4.332MHZ) | TE | 67 |
| R120 | | | RK73GB1J102J | CHIP R 1.0K J 1/16W | | |
| R121 | | | RD14BB2C101J | RD 100 J 1/6W | H | 5 |
| R201 | | | RD14NB2E472J | RD 4.7K J 1/4W | | |
| △ R410 | | | RS14KB3D181J | FL-PROOF RS 180 J 2W | | |
| R451 | | | RD14BB2C134J | RD 130K J 1/6W | TE | 67 |
| R451 | | | RD14BB2C183J | RD 18K J 1/6W | YMI | 6 |
| R451 | | | RD14BB2C393J | RD 39K J 1/6W | KP | 6 |
| R453 | | | RD14NB2E1R0J | RD 1 J 1/4W | | |
| R454 | | | RD14NB2E150J | RD 15 J 1/4W | YMI | 6 |
| R454 | | | RD14NB2E270J | RD 27 J 1/4W | KPHX | |
| R454 | | | RD14NB2E270J | RD 27 J 1/4W | TE | 67 |
| R457 | | | R92-1844-05 | CARBON 3.3M J 1/2W | KP | 6 |
| R458 | | | RD14BB2E120J | RD 12 J 1/4W | YMI | 6 |
| R607 | | | RD14BB2C104J | RD 100K J 1/6W | H | 5 |
| R610 | | | RD14BB2C750J | RD 75 J 1/6W | H | 5 |
| R651,652 | | | RD14BB2C104J | RD 100K J 1/6W | H | 5 |
| R653,654 | | | RD14BB2C750J | RD 75 J 1/6W | H | 5 |
| R657,658 | | | RD14BB2C750J | RD 75 J 1/6W | H | 5 |
| R663,664 | | | RD14BB2C750J | RD 75 J 1/6W | H | 5 |
| △ R671 | | | RS14KB3A180J | FL-PROOF RS 18 J 1W | | |
| △ R674 | | | RS14KB3A470J | FL-PROOF RS 47 J 1W | | |
| R776 | | | RD14NB2E100J | RD 10 J 1/4W | | |
| R779 | | | RK73GB1J333J | CHIP R 33K J 1/16W | | |
| R780 | | | RD14NB2E100J | RD 10 J 1/4W | | |
| R782 | | | RK73GB1J303J | CHIP R 30K J 1/16W | | |
| R801,802 | | | RK73GB1J331J | CHIP R 330 J 1/16W | | |
| R803 | | | RK73GB1J104J | CHIP R 100K J 1/16W | | |
| R805 | | | RK73GB1J104J | CHIP R 100K J 1/16W | | |
| R813 | | | RD14BB2C473J | RD 47K J 1/6W | TE | 67 |
| R814 | | | RD14BB2C1R0J | RD 1 J 1/6W | TE | 67 |
| R832 | | | RD14BB2C102J | RD 1.0K J 1/6W | YMI | 6 |
| R833 | | | RD14BB2C332J | RD 3.3K J 1/6W | YMI | 6 |
| R834 | | | RD14BB2E102J | RD 1.0K J 1/4W | YMI | 6 |
| R836 | | | RD14BB2C101J | RD 100 J 1/6W | YMI | 6 |
| R894 | | | RK73GB1J101J | CHIP R 100 J 1/16W | | |
| R896-898 | | | RK73GB1J101J | CHIP R 100 J 1/16W | | |
| R902 | | | RD14BB2C101J | RD 100 J 1/6W | TE | 67 |
| R910,911 | | | RK73GB1J104J | CHIP R 100K J 1/16W | | |
| R914 | | | RD14BB2C104J | RD 100K J 1/6W | TE | 67 |
| R922-924 | | | RK73GB1J101J | CHIP R 100 J 1/16W | | |
| R926 | | | RK73GB1J101J | CHIP R 100 J 1/16W | | |
| R935 | | | RK73GB1J101J | CHIP R 100 J 1/16W | | |
| R938,939 | | | RK73GB1J101J | CHIP R 100 J 1/16W | | |
| R951,952 | | | RK73GB1J104J | CHIP R 100K J 1/16W | | |
| R967-969 | | | RK73GB1J104J | CHIP R 100K J 1/16W | | |
| R970 | | | RK73GB1J153J | CHIP R 15K J 1/16W | | |
| R971,972 | | | RK73GB1J104J | CHIP R 100K J 1/16W | | |
| R977 | | | RK73GB1J123J | CHIP R 12K J 1/16W | YMI | 6 |
| R977 | | | RK73GB1J273J | CHIP R 27K J 1/16W | TE | 67 |
| R977 | | | RK73GB1J472J | CHIP R 4.7K J 1/16W | HX | |

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| R993 | | | RK73GB1J101J | CHIP R 100 J 1/16W | | |
| △ R997 | | | RD14NB2E1R0J | RD 1 J 1/4W | | |
| △ K451 | | | S76-0107-05 | MAGNETIC RELAY | KP | |
| △ K451 | | | S76-0110-05 | MAGNETIC RELAY | TE | |
| △ K451 | | | S76-0110-05 | MAGNETIC RELAY | YMIHX | |
| △ S1 | | | S62-0001-05 | SLIDE SWITCH | YMI | 6 |
| △ S2 | | | S68-0142-05 | PUSH SWITCH | TE | |
| △ S2 | | | S68-0142-05 | PUSH SWITCH | YMIHX | |
| S701-725 | | | S70-0086-05 | TACT SWITCH | | |
| S731-733 | | | S70-0086-05 | TACT SWITCH | | |
| S761,762 | | * | T99-0663-05 | ROTARY ENCODER | | |
| S763 | | | T99-0664-05 | ROTARY ENCODER | | |
| D201 | | | MTZJ20(B) | ZENER DIODE | | |
| D201 | | | RD20ES(B) | ZENER DIODE | | |
| D202 | | | MTZJ30(B) | ZENER DIODE | | |
| D202 | | | RD30ES(B) | ZENER DIODE | | |
| △ D401 | | | D2SBA20F03 | DIODE | | |
| D451,452 | | | HSS104A | DIODE | | |
| D451,452 | | | 1SS133 | DIODE | | |
| D453 | | | S1ZB20(4101) | DIODE | | |
| D454 | | | HSS104A | DIODE | | |
| D454 | | | 1SS133 | DIODE | | |
| D455 | | | RB721Q | DIODE | | |
| D501-504 | | | HSS104A | DIODE | | |
| D501-504 | | | 1SS133 | DIODE | | |
| D652 | | | HSS104A | DIODE | | |
| D652 | | | 1SS133 | DIODE | | |
| D655,656 | | | MTZJ5.6(B) | ZENER DIODE | | |
| D655,656 | | | RD5.6ES(B) | ZENER DIODE | | |
| D776 | | | MTZJ5.1(B) | ZENER DIODE | | |
| D776 | | | RD5.1ES(B) | ZENER DIODE | | |
| △ D791 | | | HSS104A | DIODE | | |
| △ D791 | | | 1SS133 | DIODE | | |
| D801-806 | | | HSS104A | DIODE | | |
| D801-806 | | | 1SS133 | DIODE | | |
| D831 | | | HSS104A | DIODE | YMI | 6 |
| D831 | | | 1SS133 | DIODE | YMI | 6 |
| △ D841 | | | RB721Q | DIODE | | |
| D842 | | | HSS104A | DIODE | | |
| D842 | | | 1SS133 | DIODE | | |
| △ D843 | | | RB721Q | DIODE | | |
| D844 | | | HSS104A | DIODE | | |
| D844 | | | 1SS133 | DIODE | | |
| D846 | | | HSS104A | DIODE | | |
| D846 | | | 1SS133 | DIODE | | |
| D961-964 | | | HSS104A | DIODE | | |
| D961-964 | | | 1SS133 | DIODE | | |
| △ ED78 | | * | HNA-16MM36T | FLUORESCENT INDICATOR TUBE | | |
| △ IC45 | | | BA05T | ANALOGUE IC | | |
| △ IC65 | | * | LA79510M | ANALOGUE IC | | |
| △ IC74 | | | BU2090 | ANALOGUE IC | | |
| △ IC78 | | | LC75711NED | MOS-IC | | |
| △ IC79 | | * | XC6202P502PR | ANALOGUE IC | | |

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| Ref. No | Add-ress | New Parts | Parts No. | Description | Desti-nation | Re-marks |
|--|----------|-----------|---------------|-------------------------|--------------|----------|
| IC81 | | | BU1923 | ANALOGUE IC | TE | 67 |
| IC83 | | | S-80840ANY | ANALOGUE IC | YMI | 6 |
| IC84 | | | S-80840ANY | ANALOGUE IC | | |
| IC90 | | * | MN101C49GGH | MI-COM IC | | 67 |
| IC90 | | * | MN101C49GGK | MI-COM IC | | 5 |
| △ IC401 | | | KIA7812API | ANALOGUE IC | | |
| △ IC402 | | | KIA7912PI | ANALOGUE IC | | |
| △ Q65 | | | 2SD2525 | TRANSISTOR | | |
| △ Q66 | | | 2SB1640 | TRANSISTOR | | |
| △ Q201 | | | 2SD2012 | TRANSISTOR | | |
| Q451 | | | 2SC1740S(Q,R) | TRANSISTOR | | |
| Q451 | | | 2SC2785(F,E) | TRANSISTOR | | |
| Q731 | | | DTC113ZSA | DIGITAL TRANSISTOR | | |
| Q731 | | | UN4219 | DIGITAL TRANSISTOR | | |
| Q776 | | | 2SC1740S(Q,R) | TRANSISTOR | | |
| Q776 | | | 2SC2785(F,E) | TRANSISTOR | | |
| Q777,778 | | | DTC124ESA | DIGITAL TRANSISTOR | | |
| Q777,778 | | | UN4212 | DIGITAL TRANSISTOR | | |
| Q841 | | | 2SC1740S(Q,R) | TRANSISTOR | | |
| Q841 | | | 2SC2785(F,E) | TRANSISTOR | | |
| Q842 | | | 2SA1175(F,E) | TRANSISTOR | | |
| Q842 | | | 2SA933AS(Q,R) | TRANSISTOR | | |
| Q843 | | | DTC113ZSA | DIGITAL TRANSISTOR | | |
| Q843 | | | UN4219 | DIGITAL TRANSISTOR | | |
| △ TH1 | | * | MF-R090 | THERMISTOR | | |
| A791 | | | W02-2769-05 | ELECTRIC CIRCUIT MODULE | | |
| DISPLAY UNIT (X14-743X-XX) | | | | | | |
| VR-6060/6070, KRF-V8060D/-S/-G/X9060D/-S/-G | | | | | | |
| D734 | | | B30-2545-05 | LED(RED3(160)) | | |
| D741-745 | | | B30-2545-05 | LED(RED3(160)) | | |
| D746-752 | | | B30-2567-05 | LED(RED(80) HI-BR) | | |
| D753 | | | B30-2545-05 | LED(RED3(160)) | | |
| D754 | | | B30-2567-05 | LED(RED(80) HI-BR) | | |
| D755 | | | B30-2545-05 | LED(RED3(160)) | | |
| C101 | | | CC45FSL1H101J | CERAMIC | 100PF | J |
| C103 | | | CK73GB1H103K | CHIP C | 0.010UF | K |
| C104 | | | CC73GCH1H101J | CHIP C | 100PF | J |
| C201 | | | CE04KW2A101M | ELECTRO | 100UF | 100WV |
| C202 | | | CC73GCH1H180J | CHIP C | 18PF | J |
| C401 | | | CK45FE2H103P | CERAMIC | 0.010UF | P |
| C402 | | | CE04KW1E222M | ELECTRO | 2200UF | 25WV |
| C403 | | | CE04KW1E102M | ELECTRO | 1000UF | 25WV |
| C404-407 | | | CK73GB1H103K | CHIP C | 0.010UF | K |
| C408,409 | | | CE04KW1C470M | ELECTRO | 47UF | 16WV |
| C410 | | | CC73GCH1H680J | CHIP C | 68PF | J |
| C411 | | | CC73GCH1H820J | CHIP C | 82PF | J |
| C451 | | | CK45FF1H103Z | CERAMIC | 0.010UF | Z |
| C452 | | | CQ93FMG1H104J | MYLAR | 0.10UF | J |
| C452 | | | CQ93FMG1H393J | MYLAR | 0.039UF | J |
| C452 | | | CQ93FMG1H473J | MYLAR | 0.047UF | J |
| C452 | | | CQ93FMG1H683J | MYLAR | 0.068UF | J |
| C453 | | | CE04LW1C332M | ELECTRO | 3300UF | 16WV |
| C453 | | | CE04LW1E332M | ELECTRO | 3300UF | 25WV |
| C454 | | | CE04LW1H100M | ELECTRO | 10UF | 50WV |

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|----------|----------|-----------|---------------|-------------|--------------|----------|
| C455 | | | CE04LW0J222M | ELECTRO | 2200UF | 6.3WV |
| C456,457 | | | CK45FF1H103Z | CERAMIC | 0.010UF | Z |
| C458 | | | CE04LW1H100M | ELECTRO | 10UF | 50WV |
| C459 | | | CE04LW1H010M | ELECTRO | 1.0UF | 50WV |
| C501-504 | | | CC45FCH1H101J | CERAMIC | 100PF | J |
| C505,506 | | | CK45FB1H102K | CERAMIC | 1000PF | K |
| C507,508 | | | CC45FCH1H101J | CERAMIC | 100PF | J |
| C509 | | | CK45FB1H471K | CERAMIC | 470PF | K |
| C510 | | | CC73GCH1H101J | CHIP C | 100PF | J |
| C511 | | | CC45FCH1H101J | CERAMIC | 100PF | J |
| C601-606 | | | CC45FSL1H470J | CERAMIC | 47PF | J |
| C607 | | | CC45FSL1H470J | CERAMIC | 47PF | J |
| C608-611 | | | CE04LW1E470M | ELECTRO | 47UF | 25WV |
| C651-662 | | | CC45FSL1H470J | CERAMIC | 47PF | J |
| C663 | | | CK45FF1H103Z | CERAMIC | 0.010UF | Z |
| C664 | | | CE04LW1C470M | ELECTRO | 47UF | 16WV |
| C665 | | | CK45FF1H103Z | CERAMIC | 0.010UF | Z |
| C666 | | | CE04LW1C470M | ELECTRO | 47UF | 16WV |
| C667 | | | CK45FF1H103Z | CERAMIC | 0.010UF | Z |
| C668 | | | CE04LW1C470M | ELECTRO | 47UF | 16WV |
| C669 | | | CK45FF1H103Z | CERAMIC | 0.010UF | Z |
| C670,671 | | | CE04LW1C470M | ELECTRO | 47UF | 16WV |
| C672 | | | CK45FF1H103Z | CERAMIC | 0.010UF | Z |
| C673 | | | CE04LW1C470M | ELECTRO | 47UF | 16WV |
| C674-677 | | | CE04LW1H100M | ELECTRO | 10UF | 50WV |
| C693 | | | CC45FSL1H101J | CERAMIC | 100PF | J |
| C701 | | | CC73GCH1H221J | CHIP C | 220PF | J |
| C702 | | | CE04LW1H101M | ELECTRO | 100UF | 50WV |
| C703,704 | | | CC73GCH1H102J | CHIP C | 1000PF | J |
| C705 | | | CC73GCH1H181J | CHIP C | 180PF | J |
| C741 | | | CK73EF1E105Z | CHIP C | 1.0UF | Z |
| C761,762 | | | CK73GB1H103K | CHIP C | 0.010UF | K |
| C763,764 | | | CK45FF1H103Z | CERAMIC | 0.010UF | Z |
| C765,766 | | | CK73GB1H103K | CHIP C | 0.010UF | K |
| C777 | | | CK45FB1H102K | CERAMIC | 1000PF | K |
| C778 | | | CC45FCH1H101J | CERAMIC | 100PF | J |
| C779 | | | CE04LW1A101M | ELECTRO | 100UF | 10WV |
| C780 | | | CC73GCH1H270J | CHIP C | 27PF | J |
| C791 | | | CE04RW0J470M | ELECTRO | 47UF | 6.3WV |
| C792 | | | CE04LW1C220M | ELECTRO | 22UF | 16WV |
| C793,794 | | | CK45FF1H103Z | CERAMIC | 0.010UF | Z |
| C811 | | | CK45FF1H103Z | CERAMIC | 0.010UF | Z |
| C812,813 | | | CC45FCH1H270J | CERAMIC | 27PF | J |
| C814 | | | CC45FCH1H101J | CERAMIC | 100PF | J |
| C815 | | | CE04LW1A470M | ELECTRO | 47UF | 10WV |
| C816 | | | CK45FB1H561K | CERAMIC | 560PF | K |
| C817 | | | CK45FF1H103Z | CERAMIC | 0.010UF | Z |
| C818 | | | CC45FSL1H271J | CERAMIC | 270PF | J |
| C819 | | | CE04LW1H2R2M | ELECTRO | 2.2UF | 50WV |
| C831 | | | CK45FF1H103Z | CERAMIC | 0.010UF | Z |
| C832 | | | CE04LW1H2R2M | ELECTRO | 2.2UF | 50WV |
| C833 | | | CK45FF1H103Z | CERAMIC | 0.010UF | Z |
| C841 | | | CE04EW0J102M | ELECTRO | 1000UF | 6.3WV |
| C842 | | | C90-1826-05 | BACKUP-C | 0.047F | 5.5WV |
| C843 | | | CE04PW1H010M | ELECTRO | 1UF | 50WV |

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| C844 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C845 | | | CK73GB1H103K | CHIP C 0.010UF K | | |
| C851 | | | CE04LW1H100M | ELECTRO 10UF 50WV | | |
| C852-855 | | | CC45FSL1H221J | CERAMIC 220PF J | | |
| C856,857 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C858 | | | CE04PW1A101M | ELECTRO 100UF 10WV | | |
| C907 | | | CK73GB1H103K | CHIP C 0.010UF K | | |
| C908 | | | CK45FF1H103Z | CERAMIC 0.010UF Z | | |
| C909 | | | CK73GB1H103K | CHIP C 0.010UF K | YM | |
| CN1 | | | E40-8386-05 | PIN ASSY | YM | |
| CN2 | | | E40-3261-05 | PIN ASSY | | |
| CN41 | | | E40-3261-05 | PIN ASSY | | |
| CN45 | | | E40-4245-05 | PIN ASSY | | |
| CN46 | | | E40-4632-05 | PIN ASSY | YMXTE | |
| CN47 | | | E40-4245-05 | PIN ASSY | KPXTE | |
| CN48 | | | E40-4428-05 | PIN ASSY | YM | |
| CN49 | | | E40-3246-05 | PIN ASSY | | |
| CN50 | | | E40-3251-05 | PIN ASSY | | |
| CN65 | | | E40-3249-05 | PIN ASSY | | |
| CN67 | | | E40-3246-05 | PIN ASSY | | |
| CN68 | | | E40-3248-05 | PIN ASSY | | |
| CN70 | | | E40-3261-05 | PIN ASSY | | |
| CN80 | | | E40-3261-05 | PIN ASSY | | |
| J2 | | | E03-0148-05 | AC OUTLET | KPY | |
| J3 | | | E03-0149-05 | AC OUTLET | ME | |
| J4 | | | E03-0310-05 | AC OUTLET | T | |
| J5 | | | E03-0325-05 | AC OUTLET | X | |
| J20 | | * | E63-1251-05 | PIN JACK | | |
| J21 | | | E56-0033-05 | CYLINDRICAL RECEPTACLE | | |
| J61,62 | | * | E63-1253-05 | PIN JACK | | |
| J63 | | * | E63-1252-05 | PIN JACK | | 5 |
| J65-67 | | * | E56-0040-05 | CYLINDRICAL RECEPTACLE | | |
| W961 | | | E31-0002-00 | JUMPER WIRE | | 9 |
| F1 | | | F05-4025-05 | FUSE (SEMKO) (250V T4A L) | YMXTE | |
| F1 | | | F50-0078-05 | FUSE(5X20) | KP | |
| F2 | | | F06-1022-05 | FUSE (SEMKO) (250V T1AL) | YMXTE | |
| F3 | | | F05-4025-05 | FUSE (SEMKO) (250V T4A L) | YM | |
| - | | * | J19-6287-03 | HOLDER | | |
| CN3,4 | | | J13-0075-05 | FUSE CLIP | YM | |
| CN11,12 | | | J13-0075-05 | FUSE CLIP | | |
| CN21,22 | | | J13-0075-05 | FUSE CLIP | YMXTE | |
| E701 | | | J11-0809-05 | WIRE CLAMPER | | |
| E702,703 | | | J11-0808-05 | WIRE CLAMPER | | |
| E705 | | | J11-0808-05 | WIRE CLAMPER | | |
| T1 | | | L07-2758-05 | POWER TRANSFORMER | X | |
| T1 | | | L07-2761-05 | POWER TRANSFORMER | TE | |
| T1 | | | L07-2805-05 | POWER TRANSFORMER | YM | |
| T1 | | | L07-2809-05 | POWER TRANSFORMER | KP1 | |
| X701 | | | L78-0725-05 | RESONATOR (8.38MHZ) | | |
| X811 | | | L77-2002-05 | CRYSTAL RESONATOR (4.332MHZ) | TE | |
| R120 | | | RK73GB1J102J | CHIP R 1.0K J 1/16W | | |
| R121 | | | RD14BB2C101J | RD 100 J 1/6W | | |
| R201 | | | RD14NB2E472J | RD 4.7K J 1/4W | | 5 |

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| Ref. No | Add-ress | New Parts | Parts No. | Description | Desti-nation | Re-marks |
|---------------|----------|-----------|--------------|----------------------|--------------|----------|
| Δ R410 | | | RS14KB3D181J | FL-PROOF RS 180 J 2W | | |
| Δ R453 | | | RD14NB2E1R0J | RD 1 J 1/4W | | |
| R454 | | | RD14NB2E150J | RD 15 J 1/4W | | |
| R454 | | | RD14NB2E270J | RD 27 J 1/4W | YM | |
| Δ R457 | | | R92-1844-05 | CARBON 3.3M J 1/2W | KPXTE | |
| Δ R458 | | | RD14NB2E120J | RD 12 J 1/4W | YM | |
| R607 | | | RD14BB2C104J | RD 100K J 1/6W | | 5 |
| R610 | | | RD14BB2C104J | RD 100K J 1/6W | | |
| Δ R671 | | | RS14KB3A180J | FL-PROOF RS 18 J 1W | | |
| Δ R674 | | | RS14KB3A470J | FL-PROOF RS 47 J 1W | | |
| R776 | | | RD14NB2E100J | RD 10 J 1/4W | | |
| R779 | | | RK73GB1J333J | CHIP R 33K J 1/16W | | |
| R780 | | | RD14NB2E100J | RD 10 J 1/4W | | |
| R782 | | | RK73GB1J303J | CHIP R 30K J 1/16W | | |
| R801,802 | | | RK73GB1J331J | CHIP R 330 J 1/16W | | |
| R803 | | | RK73GB1J104J | CHIP R 100K J 1/16W | | |
| R805 | | | RK73GB1J104J | CHIP R 100K J 1/16W | | |
| R834 | | | RD14NB2E102J | RD 1.0K J 1/4W | YM | |
| R894 | | | RK73GB1J101J | CHIP R 100 J 1/16W | | |
| R896-898 | | | RK73GB1J101J | CHIP R 100 J 1/16W | | |
| R910,911 | | | RK73GB1J104J | CHIP R 100K J 1/16W | | |
| R922-924 | | | RK73GB1J101J | CHIP R 100 J 1/16W | | |
| R926 | | | RK73GB1J101J | CHIP R 100 J 1/16W | | |
| R935 | | | RK73GB1J101J | CHIP R 100 J 1/16W | | |
| R938,939 | | | RK73GB1J101J | CHIP R 100 J 1/16W | | |
| R951,952 | | | RK73GB1J104J | CHIP R 100K J 1/16W | | |
| R967-969 | | | RK73GB1J104J | CHIP R 100K J 1/16W | | |
| R970 | | | RK73GB1J153J | CHIP R 15K J 1/16W | | |
| R971,972 | | | RK73GB1J104J | CHIP R 100K J 1/16W | | |
| R977 | | | RK73GB1J123J | CHIP R 12K J 1/16W | YM | |
| R977 | | | RK73GB1J273J | CHIP R 27K J 1/16W | TE | |
| R977 | | | RK73GB1J472J | CHIP R 4.7K J 1/16W | X | |
| R993 | | | RK73GB1J101J | CHIP R 100 J 1/16W | | |
| R997 | | | RD14NB2E1R0J | RD 1 J 1/4W | | |
| W724,725 | | | E31-0001-00 | JUMPER WIRE | | |
| Δ K451 | | | S76-0107-05 | MAGNETIC RELAY | KP | |
| Δ K451 | | | S76-0110-05 | MAGNETIC RELAY | YMXTE | |
| Δ S1 | | | S62-0001-05 | SLIDE SWITCH | YM | |
| Δ S2 | | | S68-0142-05 | PUSH SWITCH | YMXTE | |
| S701-725 | | | S70-0086-05 | TACT SWITCH | | |
| S731-733 | | | S70-0086-05 | TACT SWITCH | | |
| S761,762 | | * | T99-0663-05 | ROTARY ENCODER | | |
| S763 | | | T99-0664-05 | ROTARY ENCODER | | |
| D201 | | | MTZJ20(B) | ZENER DIODE | | |
| D201 | | | RD20ES(B) | ZENER DIODE | | |
| D202 | | | MTZJ30(B) | ZENER DIODE | | |
| D202 | | | RD30ES(B) | ZENER DIODE | | |
| Δ D401 | | | D2SBA20F03 | DIODE | | |
| D451,452 | | | HSS104A | DIODE | | |
| D451,452 | | | 1SS133 | DIODE | | |
| Δ D453 | | | S1ZB20(4101) | DIODE | | |
| D454 | | | HSS104A | DIODE | | |
| D454 | | | 1SS133 | DIODE | | |

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|----------|----------|-----------|---------------|----------------------------|--------------|----------|
| D455 | | | RB721Q | DIODE | | |
| D501-504 | | | HSS104A | DIODE | | |
| D501-504 | | | 1SS133 | DIODE | | |
| D652 | | | HSS104A | DIODE | | |
| D652 | | | 1SS133 | DIODE | | |
| D655,656 | | | MTZJ5.6(B) | ZENER DIODE | | |
| D655,656 | | | RD5.6ES(B) | ZENER DIODE | | |
| D776 | | | MTZJ5.1(B) | ZENER DIODE | | |
| D776 | | | RD5.1ES(B) | ZENER DIODE | | |
| △ D791 | | | HSS104A | DIODE | | |
| △ D791 | | | 1SS133 | DIODE | | |
| D801-806 | | | HSS104A | DIODE | | |
| D801-806 | | | 1SS133 | DIODE | | |
| D831 | | | HSS104A | DIODE | YM | |
| D831 | | | 1SS133 | DIODE | YM | |
| △ D841 | | | RB721Q | DIODE | | |
| D842 | | | HSS104A | DIODE | | |
| D842 | | | 1SS133 | DIODE | | |
| D843 | | | RB721Q | DIODE | | |
| D844 | | | HSS104A | DIODE | | |
| D844 | | | 1SS133 | DIODE | | |
| D846 | | | HSS104A | DIODE | | |
| D846 | | | 1SS133 | DIODE | | |
| D961-964 | | | HSS104A | DIODE | | |
| D961-964 | | | 1SS133 | DIODE | | |
| △ ED78 | | * | HNA-16MM36T | FLUORESCENT INDICATOR TUBE | | |
| △ IC45 | | | BA05T | ANALOGUE IC | | |
| △ IC65 | | * | LA79510M | ANALOGUE IC | | |
| △ IC74 | | | BU2090 | ANALOGUE IC | | |
| △ IC78 | | | LC75711NED | MOS-IC | | |
| △ IC79 | | * | XC6202P502PR | ANALOGUE IC | TE | |
| △ IC81 | | | BU1923 | ANALOGUE IC | YM | |
| △ IC83 | | | S-80840ANY | ANALOGUE IC | | |
| △ IC84 | | | S-80840ANY | ANALOGUE IC | | |
| △ IC90 | | * | MN101C49GGH | MI-COM IC | | 9 |
| △ IC90 | | * | MN101C49GGK | MI-COM IC | | 5 |
| △ IC401 | | | KIA7812API | ANALOGUE IC | | |
| △ IC402 | | | KIA7912PI | ANALOGUE IC | | |
| △ Q65 | | | 2SD2525 | TRANSISTOR | | |
| △ Q66 | | | 2SB1640 | TRANSISTOR | | |
| Q201 | | | 2SD2012 | TRANSISTOR | | |
| Q451 | | | 2SC1740S(Q,R) | TRANSISTOR | | |
| Q451 | | | 2SC2785(F,E) | TRANSISTOR | | |
| Q731 | | | DTC113ZSA | DIGITAL TRANSISTOR | | |
| Q731 | | | UN4219 | DIGITAL TRANSISTOR | | |
| Q776 | | | 2SC1740S(Q,R) | TRANSISTOR | | |
| Q776 | | | 2SC2785(F,E) | TRANSISTOR | | |
| Q777,778 | | | DTC124ESA | DIGITAL TRANSISTOR | | |
| Q777,778 | | | UN4212 | DIGITAL TRANSISTOR | | |
| Q841 | | | 2SC1740S(Q,R) | TRANSISTOR | | |
| Q841 | | | 2SC2785(F,E) | TRANSISTOR | | |
| Q842 | | | 2SA1175(F,E) | TRANSISTOR | | |
| Q842 | | | 2SA933AS(Q,R) | TRANSISTOR | | |
| Q843 | | | DTC113ZSA | DIGITAL TRANSISTOR | | |
| Q843 | | | UN4219 | DIGITAL TRANSISTOR | | |

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|---------------------------------------|----------|-----------|---------------|-------------------------|--------------|-----------------|
| △ TH1 | | * | MF-R090 | THERMISTOR | | |
| A791 | | | W02-2769-05 | ELECTRIC CIRCUIT MODULE | | |
| SUB CIRCUIT UNIT (X25-649X-XX) | | | | | | |
| C101-109 | | | CC45FSL1H221J | CERAMIC | | 220PF J |
| C110-115 | | | CE04LW1C470M | ELECTRO | | 47UF 16WV |
| C116 | | | CE04LW1H220M | ELECTRO | | 22UF 50WV |
| C117 | | | CE04LW1C470M | ELECTRO | | 47UF 16WV |
| C118 | | | CE04LW1A471M | ELECTRO | | 470UF 10WV |
| C119 | | | CE04LW1H220M | ELECTRO | | 22UF 50WV |
| C120 | | | CE04LW1C470M | ELECTRO | | 47UF 16WV |
| C121 | | | CE04LW1A471M | ELECTRO | | 470UF 10WV |
| C122 | | | CE04LW1H220M | ELECTRO | | 22UF 50WV |
| C123 | | | CE04LW1C470M | ELECTRO | | 47UF 16WV |
| C124 | | | CE04LW1A471M | ELECTRO | | 470UF 10WV |
| C125 | | | CK45FF1H103Z | CERAMIC | | 0.010UF Z |
| C126 | | | CE04LW1C470M | ELECTRO | | 47UF 16WV |
| C127-129 | | | CC45FCH1H270J | CERAMIC | | 27PF J |
| C201 | | | CE04LW1H100M | ELECTRO | | 10UF 50WV KP |
| C202 | | | CK45FF1H103Z | CERAMIC | | 0.010UF Z KP |
| C203 | | | CQ93FMG1H683J | MYLAR | | 0.068UF J KP |
| C204 | | | CK45FF1H103Z | CERAMIC | | 0.010UF Z KP |
| C205,206 | | | CK45FF1H103Z | CERAMIC | | 0.010UF Z KP |
| C207 | | | CE04LW0J222M | ELECTRO | | 2200UF 6.3WV KP |
| C208 | | | CE04LW0J221M | ELECTRO | | 220UF 6.3WV KP |
| C209 | | | CK45FF1H103Z | CERAMIC | | 0.010UF Z KP |
| C210 | | | CC45FSL1H221J | CERAMIC | | 220PF J KP |
| C211 | | | CC45FSL1H101J | CERAMIC | | 100PF J KP |
| C212,213 | | | CC45FSL1H101J | CERAMIC | | 100PF J KP |
| C214,215 | | | CK45FF1H103Z | CERAMIC | | 0.010UF Z KP |
| C216 | | | CE04LW1H010M | ELECTRO | | 1.0UF 50WV KP |
| C301-310 | | | CC45FSL1H221J | CERAMIC | | 220PF J 5 |
| C311-313 | | | CK45FB1H332K | CERAMIC | | 3300PF K 5 |
| C315-317 | | | CC45FSL1H101J | CERAMIC | | 100PF J 5 |
| C401-406 | | | CE04KW1H220M | ELECTRO | | 22UF 50WV 5 |
| C407-412 | | | CC45FSL1H221J | CERAMIC | | 220PF J 5 |
| C419 | | | CE04DW1C471M | ELECTRO | | 470UF 16WV 5 |
| C420 | | | CE04KW1C101M | ELECTRO | | 100UF 16WV 5 |
| C425,426 | | | CC45FCH1H101J | CERAMIC | | 100PF J 5 |
| C427-430 | | | CC45FCH1H100D | CERAMIC | | 10PF D 5 |
| C431-436 | | | CE04KW1E470M | ELECTRO | | 47UF 25WV 5 |
| C437,438 | | | CE04HW1H010M | NP-ELEC | | 1.0UF 50WV 5 |
| C439,440 | | | CE04KW1E470M | ELECTRO | | 47UF 25WV 5 |
| C441,442 | | | CE04KW1A101M | ELECTRO | | 100UF 10WV 5 |
| C443-446 | | | CE04KW1H220M | ELECTRO | | 22UF 50WV 5 |
| C447 | | | CE04LW1H100M | ELECTRO | | 10UF 50WV 5 |
| C448 | | | CE04KW2A010M | ELECTRO | | 1.0UF 100WV 5 |
| C449,450 | | | CE04KW1H220M | ELECTRO | | 22UF 50WV 5 |
| C451 | | | CE04KW1E221M | ELECTRO | | 220UF 25WV 5 |
| C452 | | | CE04KW1H220M | ELECTRO | | 22UF 50WV 5 |
| C453,454 | | | CC45FSL1H221J | CERAMIC | | 220PF J 5 |
| C457 | | | CQ93FMG1H222J | MYLAR | | 2200PF J 5 |
| C458 | | | CC45FCH1H100D | CERAMIC | | 10PF D 5 |
| C459 | | | CC45FSL1H470J | CERAMIC | | 47PF J 5 |

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KRF-V6060D/V7060D/V8060D/X9060D/VR-6050/6060/6070
PARTS LIST

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|----------|----------|-----------|--------------|---------------------------------|--------------|----------|
| CN101 | | | E40-3262-05 | PIN ASSY | | |
| CN201 | | | E40-8531-05 | FLAT CABLE CONNECTOR | KP | |
| CN202 | | | E40-3251-05 | PIN ASSY | | |
| CN301 | | | E40-8483-05 | FLAT CABLE CONNECTOR | | 5 |
| CN302 | | | E40-4101-05 | PIN ASSY | | |
| CN303 | | | E40-3248-05 | PIN ASSY | | 5 |
| CN304 | | | E40-4248-05 | PIN ASSY | | |
| J101 | | * | E63-1249-05 | PIN JACK | | |
| J102 | | * | E63-1250-05 | PIN JACK | | |
| J201 | | * | E11-0389-05 | MINIATURE PHONE JACK(3.5 STERE) | KP | 5 |
| J202 | | | E11-0291-05 | MINIATURE PHONE JACK(2P) | KP | |
| J301 | | * | E70-0150-05 | SCREW TERMINAL BOARD | | |
| J302 | | * | E63-1246-05 | PIN JACK | | 5 |
| J303 | | * | E63-1248-05 | PIN JACK | | 5 |
| W2 ,3 | | | E31-0002-00 | JUMPER WIRE | | 5 |
| W5 | | | E31-0002-00 | JUMPER WIRE | KP | 9 |
| W15 | | | E31-0002-00 | JUMPER WIRE | | 5 |
| W17 | | | E31-0002-00 | JUMPER WIRE | | 5 |
| W26 -31 | | | E31-0002-00 | JUMPER WIRE | | 5 |
| W43 | | | E31-0002-00 | JUMPER WIRE | | 5 |
| W55 -64 | | | E31-0002-00 | JUMPER WIRE | YMHXTE | 5 |
| W66 | | | E31-0002-00 | JUMPER WIRE | | 5 |
| L201 | | | L40-1011-58 | SMALL FIXED INDUCTOR(100UH,K) | KP | |
| L202 | | | L92-0017-05 | FERRITE CORE | KP | |
| R201 | | | RD14BB2C102J | RD 1.0K J 1/6W | KP | 5 |
| R213,214 | | | RD14NB2E471J | RD 470 J 1/4W | KP | |
| R215 | | | RD14BB2C473J | RD 47K J 1/6W | KP | 5 |
| R216 | | | RD14BB2C221J | RD 220 J 1/6W | KP | 5 |
| R217 | | | RD14NB2E471J | RD 470 J 1/4W | KP | 5 |
| R301-303 | | | RD14BB2C221J | RD 220 J 1/6W | | 5 |
| R305-310 | | | RD14BB2C221J | RD 220 J 1/6W | | 5 |
| R311-320 | | | RD14BB2C102J | RD 1.0K J 1/6W | | 5 |
| R321-330 | | | RD14BB2C104J | RD 100K J 1/6W | | 5 |
| R331-340 | | | RD14BB2C470J | RD 47 J 1/6W | | 5 |
| R341,342 | | | RD14BB2C102J | RD 1.0K J 1/6W | | 5 |
| R343,344 | | | RD14BB2C221J | RD 220 J 1/6W | | 5 |
| R345-352 | | | RD14BB2C102J | RD 1.0K J 1/6W | | 5 |
| R353-360 | | | RD14BB2C221J | RD 220 J 1/6W | | 5 |
| R362 | | | RD14BB2C221J | RD 220 J 1/6W | | 5 |
| R401,402 | | | RD14BB2C103J | RD 10K J 1/6W | | 5 |
| R403-406 | | | RD14BB2C223J | RD 22K J 1/6W | | 5 |
| R407,408 | | | RD14BB2C471J | RD 47K J 1/6W | | 5 |
| R409-414 | | | RD14BB2C472J | RD 4.7K J 1/6W | | 5 |
| R415-418 | | | RD14BB2C473J | RD 47K J 1/6W | | 5 |
| R419-424 | | | RD14BB2C220J | RD 22 J 1/6W | | 5 |
| R425 | | | RD14NB2E561J | RD 560 J 1/4W | | 5 |
| R426,427 | | | RD14BB2C102J | RD 1.0K J 1/6W | | 5 |
| R430,431 | | | RD14BB2C103J | RD 10K J 1/6W | | 5 |
| R432,433 | | | RD14BB2C102J | RD 1.0K J 1/6W | | 5 |
| R434 | | | RS14KB3A101J | FL-PROOF RS 100 J 1W | | 5 |
| R435-440 | | | RD14BB2C103J | RD 10K J 1/6W | | 5 |
| R441-446 | | | RD14BB2C474J | RD 470K J 1/6W | | 5 |
| R447 | | | RD14BB2C102J | RD 1.0K J 1/6W | | 5 |
| R448 | | | RD14BB2C103J | RD 10K J 1/6W | | 5 |

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|----------|----------|-----------|---------------|----------------------|--------------|----------|
| R449 | | | RD14BB2C153J | RD 15K J 1/6W | | 5 |
| R450 | | | RD14NB2E561J | RD 560 J 1/4W | | 5 |
| R451 | | | RD14NB2E102J | RD 1.0K J 1/4W | | 5 |
| R452 | | | RS14KB3A470J | FL-PROOF RS 47 J 1W | | 5 |
| R453,454 | | | RD14BB2C223J | RD 22K J 1/6W | | 5 |
| R455,456 | | | RD14BB2C473J | RD 47K J 1/6W | | 5 |
| R457 | | | RD14BB2C103J | RD 10K J 1/6W | | 5 |
| R458 | | | RD14BB2C474J | RD 470K J 1/6W | | 5 |
| R459 | | | RD14BB2C911J | RD 910 J 1/6W | | 5 |
| R460 | | | RD14BB2C472J | RD 4.7K J 1/6W | | 5 |
| R461,462 | | | RD14BB2C220J | RD 22 J 1/6W | | 5 |
| R463,464 | | | RD14BB2C103J | RD 10K J 1/6W | | 5 |
| D201,202 | | | HSS104A | DIODE | KP | |
| D201,202 | | | 1SS133 | DIODE | KP | |
| D203,204 | | | HSS104A | DIODE | KP | |
| D203,204 | | | 1SS133 | DIODE | KP | |
| D205,206 | | | HSS104A | DIODE | KP | |
| D205,206 | | | 1SS133 | DIODE | KP | |
| D401 | | | MTZJ3.9(B) | ZENER DIODE | | 5 |
| D401 | | | RD3.9ES(B) | ZENER DIODE | | 5 |
| D402 | | | MTZJ5.1(B) | ZENER DIODE | | 5 |
| D402 | | | RD5.1ES(B) | ZENER DIODE | | 5 |
| IC101 | | * | NJM2284D | ANALOGUE IC | | |
| IC102 | | * | BA7666FS | ANALOGUE IC | | |
| IC201 | | | BA05T | ANALOGUE IC | KP | |
| IC202 | | | TC74HC00AP | IC(2INPUT NAND GATE) | KP | |
| IC401 | | | NJM4580D-D | IC(OP AMP X2) | | 5 |
| IC402 | | | NJM4565D-D | IC(OP AMP X2) | | 5 |
| IC403 | | | NJM4580D-D | IC(OP AMP X2) | | 5 |
| IC404 | | | NJM4565D-D | IC(OP AMP X2) | | 5 |
| Q101 | | | DTC124ESA | DIGITAL TRANSISTOR | | |
| Q101 | | | UN4212 | DIGITAL TRANSISTOR | | |
| Q201 | | | DTC124ESA | DIGITAL TRANSISTOR | KP | |
| Q201 | | | UN4212 | DIGITAL TRANSISTOR | KP | |
| Q202,203 | | | KTC3199(Y,GR) | TRANSISTOR | KP | |
| Q202,203 | | | 2SC1740S(Q,R) | TRANSISTOR | KP | |
| Q202,203 | | | 2SC2785(F,E) | TRANSISTOR | KP | |
| Q204 | | | KTA1267(Y,GR) | TRANSISTOR | KP | |
| Q204 | | | 2SA1175(F,E) | TRANSISTOR | KP | |
| Q204 | | | 2SA933AS(Q,R) | TRANSISTOR | KP | |
| Q301-320 | | | 2SC2878(B) | TRANSISTOR | | 5 |
| Q401,402 | | | DTA124ESA | DIGITAL TRANSISTOR | | 5 |
| Q401,402 | | | UN4112 | DIGITAL TRANSISTOR | | 5 |
| Q403-408 | | | 2SC2878(B) | TRANSISTOR | | 5 |
| Q409 | | | DTA124ESA | DIGITAL TRANSISTOR | | 5 |
| Q409 | | | UN4112 | DIGITAL TRANSISTOR | | 5 |
| Q411,412 | | | 2SC2878(B) | TRANSISTOR | | 5 |

L : Scandinavia K : USA P : Canada R : Mexico C : China I : Malaysia

Y : PX(Far East,Hawaii) T : England 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

HOW TO READ THE PARTS LIST
 ABBREVIATION OF MODEL AND MASS PRODUCTION'S DESTINATIONS

| MODEL | CNT ABB. | Australia | Canada | China | England | Europe | Germany | Korea | Malaysia |
|--------------|-------------|-----------|----------|--------|-------------|----------|---------|------------|----------|
| | | X | P | C | T | E | G | H | I |
| VR-6050 | 6 | - | P | - | - | - | - | - | - |
| KRF-V6060D | | - | - | - | - | E | - | - | - |
| KRF-V6060D-S | | X | - | - | T | E | - | H | I |
| KRF-V7060D | 7 | - | - | - | - | E | - | - | - |
| KRF-V7060D-S | | - | - | - | - | E | - | - | - |
| VR-6060 | 9 | - | P | - | - | - | - | - | - |
| KRF-V8060D | | - | - | - | - | E | - | - | - |
| KRF-V8060D-S | | X | - | - | - | E | - | - | - |
| KRF-V8060D-G | | - | - | - | - | - | - | - | - |
| VR-6070 | 5 | - | P | - | - | - | - | - | - |
| KRF-X9060D | | - | - | - | - | E | - | - | - |
| KRF-X9060D-S | | X | - | - | T | E | - | - | - |
| KRF-X9060D-G | | - | - | - | - | - | - | H | - |
| MODEL | CNT ABB. | Mexico | PX/AAFES | Russia | Scandinavia | Shanghai | USA | Other area | |
| | | R | Y | Q | L | V | K | M | |
| VR-6050 | 6 | - | - | - | - | - | K | - | - |
| KRF-V6060D | | - | Y | - | - | - | - | - | - |
| KRF-V6060D-S | | - | - | - | - | - | - | M | - |
| KRF-V7060D | 7 | - | - | - | - | - | - | - | - |
| KRF-V7060D-S | | - | - | - | - | - | - | - | - |
| VR-6060 | 9 | - | - | - | - | - | K | - | - |
| KRF-V8060D | | - | - | - | - | - | - | - | - |
| KRF-V8060D-S | | - | - | - | - | - | - | - | - |
| KRF-V8060D-G | | - | - | - | - | - | - | M | - |
| VR-6070 | 5 | - | - | - | - | - | K | - | - |
| KRF-X9060D | | - | Y | - | - | - | - | - | - |
| KRF-X9060D-S | | - | - | - | - | - | - | - | - |
| KRF-X9060D-G | | - | - | - | - | - | - | M | - |

SPECIFICATIONS

For the U.S.A and Canada

AUDIO section (VR-6050)

Rated power output during STEREO operation

100 watts per channel minimum RMS, both channels driven, at 8 Ω from 20 Hz to 20 kHz with no more than 0.09% total harmonic distortion. (FTC)

Effective power output during SURROUND operation

| | |
|--|--|
| FRONT (20 ~ 20 kHz, 0.09 % T.H.D. at 8 Ω one channel driven) | 100 W + 100 W |
| CENTER (20 ~ 20 kHz, 0.09 % T.H.D. at 8 Ω one channel driven) | 100 W |
| SURROUND (20 ~ 20 kHz, 0.7 % T.H.D. at 8 Ω one channel driven) | 100 W + 100 W |
| Total harmonic distortion | 0.009 % (1 kHz, 50 W, 8 Ω) |
| Frequency response | Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) 10 Hz ~ 100 kHz, +0 dB ~ -3.0 dB |
| Signal to noise ratio (IHF'66) | Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) 95 dB |
| Loudness control | VOLUME at -30 dB level +6 dB (100 Hz) |
| Input sensitivity / impedance | Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) 500 mV / 47 kΩ |
| Output level / impedance | TAPE REC 500 mV / 1 kΩ PRE OUT (SURROUND BACK CHANNEL) 2.5 V / 1 kΩ PRE OUT (SUBWOOFER) 2.5 V / 1 kΩ |
| Tone control | BASS ±10 dB (at 100 Hz) TREBLE ±10 dB (at 10 kHz) |

For other countries (except for the U.K.)

AUDIO section (KRF-V7060D/V6060D)

Effective power output during STEREO operation

1 kHz, 10 %, 8 Ω 110 W + 110 W

Rated power output during STEREO operation

100 watts per channel minimum RMS, both channels driven, at 8 Ω from 20 Hz to 20 kHz with no more than 0.09% total harmonic distortion. (FTC)

Effective power output during SURROUND operation

| | |
|---|--|
| FRONT (1 kHz, 10 % T.H.D. at 8 Ω one channel driven) | 110 W + 110 W |
| CENTER (1kHz, 10 % T.H.D. at 8 Ω one channel driven) | 110 W |
| SURROUND (1 kHz, 10 % T.H.D. at 8 Ω one channel driven) | 110 W + 110 W |
| Total harmonic distortion | 0.009% (1 kHz, 50 W, 8 Ω) |
| Frequency response | Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) 10 Hz ~ 100 kHz, +0 dB ~ -3.0 dB |
| PHONO 'RIAA' response (KRF-V7060D) | 40 Hz ~ 20 kHz, 1.5 dB ~ -3.0 dB |
| Maximum input level | PHONO (MM) (KRF-V7060D) 45 mV, 1 % T.H.D. at 1 kHz |
| Signal to noise ratio (IHF'66) | PHONO (MM) (KRF-V7060D) 75 dB Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) 95 dB |
| Loudness control | VOLUME at -30 dB level +6 dB (100 Hz) |
| Input sensitivity / impedance | PHONO (MM) (KRF-V7060D) 6.0 mV / 47 kΩ Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) 500 mV / 47 kΩ |
| Output level / impedance | TAPE REC 500 mV / 1 kΩ PRE OUT (SURROUND BACK CHANNEL) 2.5 V / 1 kΩ PRE OUT (SUBWOOFER) 2.5 V / 1 kΩ |

Tone control

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

DIGITAL AUDIO section

| | |
|---------------------------------------|---|
| Sampling frequency | 32 kHz, 44.1 kHz, 48 kHz, 96 kHz |
| Input level / impedance / wave length | Optical (-15 dBm ~ -24 dBm), 660 nm ±30 nm Coaxial 0.5 Vp-p / 75 Ω |

VIDEO section

| | |
|--------------------------|--|
| VIDEO inputs / outputs | VIDEO (composite) 1 Vp-p / 75 Ω |
| S VIDEO inputs / outputs | S VIDEO (luminance signal) 1 Vp-p / 75 Ω S VIDEO (chrominance signal) 0.286 Vp-p / 75 Ω |

FM tuner section

| | |
|------------------------------------|---|
| Tuning frequency range | 87.5 MHz ~ 108.0 MHz |
| Usable sensitivity (MONO) | VR-6050 1.3 μV (75 Ω) / 13.2 dBf (75 kHz dev, SINAD 30 dB) KRF-V7060D/V6060D 1.6 μV (75 Ω) / 15.2 dBf (75 kHz dev, SINAD 30 dB) |
| 50 dB quieting sensitivity | STEREO 28 μV (75 Ω) / 40.2 dBf |
| Total harmonic distortion | MONO (1 kHz, 75 kHz dev) 0.5% (65 dBf input) STEREO (1 kHz, 67.5 + 6.75 kHz dev) 0.7% (65 dBf input) |
| Signal to noise ratio | MONO (1 kHz, 75 kHz dev) 75 dB (65 dBf input) STEREO (1 kHz, 67.5 + 6.75 kHz dev) 68 dB (65 dBf input) |
| Stereo separation (1 kHz) | 40 dB |
| Selectivity (±400 kHz) (VR-6050) | 70 dB |
| (KRF-V7060D/V6060D) | 50 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 (VR-6050) 10 kHz step 530 kHz ~ 1,610 kHz (KRF-V7060D/V6060D) 9 kHz step 531 kHz ~ 1,602 kHz (KRF-V7060D/V6060D) |
| Usable sensitivity (30% mod, S/N 20 dB) | 16 μV / (600 μV/m) |
| Signal to noise ratio (30% mod, 400 Hz) | 50 dB (60 dBμ VEMF input) |

GENERAL

| | |
|-------------------|--|
| Power consumption | VR-6050 3 A KRF-V7060D/V6060D 300 W |
| AC outlet | SWITCHED VR-6050 (total 150 W, 1.25 A max.) KRF-V7060D/V6060D (total 90 W max.) |
| Dimensions | W : 440 mm (17-5/16") H : 159 mm (6-1/4") D : 392 mm (15-7/16") |
| Weight (Net) | VR-6050 9.4 kg (20.7 lb) KRF-V7060D/V6060D 10.0 kg (22.0 lb) |

SPECIFICATIONS

For the U.K. only

AUDIO section (KRF-V6060D)

| | |
|--|-----------------------------------|
| Rated power output during STEREO operation DIN/IEC (63 Hz ~ 12.5 kHz, 0.09 % T.H.D. at 6 Ω) | 100 W + 100 W |
| Effective power output during SURROUND operation | |
| FRONT (63 Hz ~ 12.5 kHz, 0.09 % T.H.D. at 6 Ω one channel driven) | 100 W + 100 W |
| CENTER (63 Hz ~ 12.5 kHz, 0.09 % T.H.D. at 6 Ω one channel driven) | 100 W |
| SURROUND (63 Hz ~ 12.5 kHz, 0.7 % T.H.D. at 6 Ω one channel driven) | 100 W + 100 W |
| Total harmonic distortion | 0.009 % (1 kHz, 50 W, 6 Ω) |
| Frequency response | |
| Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) | 10 Hz ~ 100 kHz, +0 dB ~ -3.0 dB |
| PHONO 'RIAA' response | 40 Hz ~ 20 kHz, +1.5 dB ~ -3.0 dB |
| Maximum input level | |
| PHONO (MM) | 45 mV, 1 % T.H.D. at 1 kHz |
| Signal to noise ratio (IHF'66) | |
| PHONO (MM) | 75 dB |
| Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) | 95 dB |
| Loudness control | |
| VOLUME at -30 dB level | +6 dB (100 Hz) |
| Input sensitivity / impedance | |
| PHONO (MM) | 6.0 mV / 47 kΩ |
| Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) | 500 mV / 47 kΩ |
| Output level / impedance | |
| TAPE REC | 500 mV / 1 kΩ |
| PRE OUT (SURROUND BACK CHANNEL) | 2.5 V / 1 kΩ |
| PRE OUT (SUBWOOFER) | 2.5 V / 1 kΩ |
| Tone control | |
| BASS | ±10 dB (at 100 Hz) |
| TREBLE | ±10 dB (at 10 kHz) |

DIGITAL AUDIO section

| | |
|---------------------------------------|------------------------------------|
| Sampling frequency | 32 kHz, 44.1 kHz, 48 kHz, 96 kHz |
| Input level / impedance / wave length | |
| Optical | (-15 dBm ~ -24 dBm), 660 nm ±30 nm |
| Coaxial | 0.5 Vp-p / 75 Ω |

VIDEO section

| | |
|------------------------------|-------------------|
| VIDEO inputs / outputs | |
| VIDEO (composite) | 1 Vp-p / 75 Ω |
| S VIDEO inputs / outputs | |
| S VIDEO (luminance signal) | 1 Vp-p / 75 Ω |
| S VIDEO (chrominance signal) | 0.286 Vp-p / 75 Ω |

FM tuner section

| | |
|---|---|
| Tuning frequency range | 87.5 MHz ~ 108 MHz |
| Usable sensitivity | |
| MONO | 1.3 μV (75 Ω) / 13.2 dBf (40 kHz dev, S/N 26 dB) |
| STEREO | 45 μV (75 Ω) / 42.1 dBf (40 + 6 kHz dev, S/N 46 dB) |
| Total harmonic distortion | |
| MONO (1 kHz, 40 kHz dev) | 0.2% (65.2 dBf input) |
| STEREO (1 kHz, 40 + 6 kHz dev) | 0.8% (65.2 dBf input) |
| Signal to noise ratio (DIN weighted at 1 kHz) | |
| MONO | 65 dB (65.2 dBf input) |
| STEREO | 60 dB (65.2 dBf input) |
| Stereo separation (1 kHz) | 36 dB |
| Selectivity (±300 kHz) | 64 dB |
| Frequency response (30 Hz ~ 15kHz) | +0.5 dB, -3.0 dB |

MW 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 (400 Hz, 30% mod) | 50 dB (60 dBμ VEMF input) |

GENERAL

| | |
|-------------------|-------------------|
| Power consumption | 330 W |
| AC outlet | |
| SWITCHED | (total 90 W max.) |
| Dimensions | |
| W | 440 mm (17-5/16") |
| H | 159 mm (6-1/4") |
| D | 392 mm (15-7/16") |
| Weight (Net) | 9.8 kg (21.6 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).

SPECIFICATIONS

For the U.S.A and Canada

AUDIO section (VR-6060)

Rated power output during STEREO operation

100 watts per channel minimum RMS, both channels driven, at 8 Ω from 20 Hz to 20 kHz with no more than 0.09% total harmonic distortion. (FTC)

Effective power output during SURROUND operation

| | |
|--|--|
| FRONT (20 ~ 20 kHz, 0.09 % T.H.D. at 8 Ω one channel driven) | 100 W + 100 W |
| CENTER (20 ~ 20 kHz, 0.09 % T.H.D. at 8 Ω one channel driven) | 100 W |
| SURROUND (20 ~ 20 kHz, 0.7 % T.H.D. at 8 Ω one channel driven) | 100 W + 100 W |
| SURROUND BACK/SUBWOOFER (20 ~ 20 kHz, 0.09 % T.H.D. at 8 Ω one channel driven) | 100 W |
| Total harmonic distortion | 0.009 % (1 kHz, 50 W, 8 Ω) |
| Frequency response | Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) 10 Hz ~ 100 kHz, +0 dB ~ -3.0 dB |
| PHONO 'RIAA' response | 40 Hz ~ 20 kHz, +1.5 dB ~ -3.0 dB |
| Maximum input level | PHONO (MM) 45 mV, 1 % T.H.D. at 1 kHz |
| Signal to noise ratio (IHF'66) | PHONO (MM) 75 dB |
| | Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) 95 dB |
| Loudness control | VOLUME at -30 dB level +6 dB (100 Hz) |
| Input sensitivity / impedance | PHONO (MM) 6.0 mV / 47 kΩ |
| | Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) 500 mV / 47 kΩ |
| Output level / impedance | TAPE REC 500 mV / 1 kΩ |
| | PRE OUT (SURROUND BACK CHANNEL) 2.5 V / 1 kΩ |
| | PRE OUT (SUBWOOFER) 2.5 V / 1 kΩ |
| Tone control | BASS ±10 dB (at 100 Hz) |
| | TREBLE ±10 dB (at 10 kHz) |

For other countries

AUDIO section (KRF-V8060D)

Effective power output during STEREO operation

1 kHz, 10 %, 8 Ω110 W + 110 W

Rated power output during STEREO operation

100 watts per channel minimum RMS, both channels driven, at 8 Ω from 20 Hz to 20 kHz with no more than 0.09% total harmonic distortion. (FTC)

Effective power output during SURROUND operation

| | |
|---|--|
| FRONT (1 kHz, 10% T.H.D. at 8 Ω one channel driven) | 110 W + 110 W |
| CENTER (1 kHz, 10% T.H.D. at 8 Ω one channel driven) | 110 W |
| SURROUND (1 kHz, 10% T.H.D. at 8 Ω one channel driven) | 110 W + 110 W |
| SURROUND BACK/SUBWOOFER (1 kHz, 10% T.H.D. at 8 Ω one channel driven) | 110 W |
| Total harmonic distortion | 0.009% (1 kHz, 50 W, 8 Ω) |
| Frequency response | Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) 10 Hz ~ 100 kHz, +0 dB ~ -3.0 dB |
| PHONO 'RIAA' response | 40 Hz ~ 20 kHz, 1.5 dB ~ -3.0 dB |
| Maximum input level | PHONO (MM) 45 mV, 1 % T.H.D. at 1 kHz |
| Signal to noise ratio (IHF'66) | PHONO (MM) 75 dB |
| | Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) 95 dB |
| Loudness control | VOLUME at -30 dB level +6 dB (100 Hz) |
| Input sensitivity / impedance | PHONO (MM) 6.0 mV / 47 kΩ |
| | Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) 500 mV / 47 kΩ |
| Output level / impedance | TAPE REC 500 mV / 1 kΩ |
| | PRE OUT (SURROUND BACK CHANNEL) 2.5 V / 1 kΩ |
| | PRE OUT (SUBWOOFER) 2.5 V / 1 kΩ |
| Tone control | BASS ±10 dB (at 100 Hz) |
| | TREBLE ±10 dB (at 10 kHz) |

DIGITAL AUDIO section

| | |
|---------------------------------------|--|
| Sampling frequency | 32 kHz, 44.1 kHz, 48 kHz, 96 kHz |
| Input level / impedance / wave length | Optical (-15 dBm ~ -24 dBm), 660 nm ±30 nm |
| | Coaxial 0.5 Vp-p / 75 Ω |

VIDEO section

| | |
|----------------------------------|--|
| VIDEO inputs / outputs | VIDEO (composite) 1 Vp-p / 75 Ω |
| S VIDEO inputs / outputs | S VIDEO (luminance signal) 1 Vp-p / 75 Ω |
| | S VIDEO (chrominance signal) 0.286 Vp-p / 75 Ω |
| COMPONENT VIDEO inputs / outputs | COMPONENT VIDEO (luminance signal) 1 Vp-p / 75 Ω |
| | COMPONENT VIDEO (CB/CR-signal) ±0.32 Vp-p / 75 Ω |

FM tuner section

| | |
|-------------------------------------|---|
| Tuning frequency range | 87.5 MHz ~ 108.0 MHz |
| Usable sensitivity (MONO) | VR-6060 1.3 μV (75 Ω) / 13.2 dBf (75 kHz dev, SINAD 30 dB) |
| | KRF-V8060D 1.6 μV (75 Ω) / 15.2 dBf (75 kHz dev, SINAD 30 dB) |
| 50 dB quieting sensitivity | STEREO 28 μV (75 Ω) / 40.2 dBf |
| Total harmonic distortion | MONO (1 kHz, 75 kHz dev) 0.5% (65 dBf input) |
| | STEREO (1 kHz, 67.5 + 6.75 kHz dev) 0.7% (65 dBf input) |
| Signal to noise ratio | MONO (1 kHz, 75 kHz dev) 75 dB (65 dBf input) |
| | STEREO (1 kHz, 67.5 + 6.75 kHz dev) 68 dB (65 dBf input) |
| Stereo separation (1 kHz) | 40 dB |
| Selectivity (±400 kHz) (VR-6060) | 70 dB |
| | (KRF-V8060D) 50 dB |
| Frequency response (30 Hz ~ 15 kHz) | +0.5 dB, -3.0 dB |

AM tuner section

| | |
|---|--|
| Tuning frequency range | 10 kHz step 530 kHz ~ 1,700 kHz (VR-6060) |
| | 10 kHz step 530 kHz ~ 1,610 kHz (KRF-V8060D) |
| | 9 kHz step 531 kHz ~ 1,602 kHz (KRF-V8060D) |
| Usable sensitivity (30% mod, S/N 20 dB) | 16 μV / (600 μV/m) |
| Signal to noise ratio (30% mod, 400 Hz) | 50 dB (60 dBμ VEMF input) |

GENERAL

| | |
|-------------------|---|
| Power consumption | VR-6060 3 A |
| | KRF-V8060D 300 W |
| AC outlet | SWITCHED VR-6060 (total 150 W, 1.25 A max.) |
| | KRF-V8060D (total 90 W max.) |
| Dimensions | W : 440 mm (17-5/16") |
| | H : 159 mm (6-1/4") |
| | D : 392 mm (15-7/16") |
| Weight (Net) | VR-6060 9.4 kg (20.7 lb) |
| | KRF-V8060D 10.0 kg (22.0 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).

SPECIFICATIONS

For the U.S.A and Canada

AUDIO section (VR-6070)

Rated power output during STEREO operation

100 watts per channel minimum RMS, both channels driven, at 8 Ω from 20 Hz to 20 kHz with no more than 0.09% total harmonic distortion. (FTC)

Effective power output during SURROUND operation

FRONT (20 Hz ~ 20 kHz, 0.09% T.H.D. at 8 Ω one channel driven) 100 W + 100 W

CENTER (20 Hz ~ 20 kHz, 0.09% T.H.D. at 8 Ω one channel driven) 100 W

SURROUND (20 Hz ~ 20 kHz, 0.7% T.H.D. at 8 Ω one channel driven) 100 W + 100 W

SURROUND BACK/SUBWOOFER (20 Hz ~ 20 kHz, 0.09% T.H.D. at 8 Ω one channel driven) 100 W

Total harmonic distortion 0.009% (1 kHz, 50 W, 8 Ω)

Frequency response

Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) 10 Hz ~ 100 kHz, +0 dB ~ -3.0 dB

PHONO 'RIAA' response 40 Hz ~ 20 kHz, +1.5 dB ~ -3.0 dB

Maximum input level

PHONO (MM) 45 mV, 1% T.H.D. at 1 kHz

Signal to noise ratio (IHF'66)

PHONO (MM) 75 dB

Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) 95 dB

Loudness control

VOLUME at -30 dB level +6 dB (100 Hz)

Input sensitivity / impedance

PHONO (MM) 4.0 mV / 47 kΩ

Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) 320 mV / 47 kΩ

Output level / impedance

TAPE REC 320 mV / 1 kΩ

PRE OUT (FRONT,CENTER,SURROUND) 1 V / 500 Ω

PRE OUT (SURROUND BACK) 1 V / 500 Ω

PRE OUT (SUBWOOFER) 1 V / 500 Ω

Tone control

BASS ±10 dB (at 100 Hz)

TREBLE ±10 dB (at 10 kHz)

For other countries (except for the U.K.)

AUDIO section (KRF-X9060D)

Effective power output during STEREO operation

1 kHz, 10 %, 8 Ω 130 W + 130 W

Rated power output during STEREO operation

100 watts per channel minimum RMS, both channels driven, at 8 Ω from 20 Hz to 20 kHz with no more than 0.09% total harmonic distortion. (FTC)

Effective power output during SURROUND operation

FRONT (1 kHz, 10 % T.H.D. at 8 Ω one channel driven) 130 W + 130 W

CENTER (1 kHz, 10 % T.H.D. at 8 Ω one channel driven) 130 W

SURROUND (1 kHz, 10 % T.H.D. at 8 Ω one channel driven) 130 W + 130 W

SURROUND BACK/SUBWOOFER (1 kHz, 10 % T.H.D. at 8 Ω one channel driven) 130 W

Total harmonic distortion 0.009% (1 kHz, 50 W, 8 Ω)

Frequency response

Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) 10 Hz ~ 100 kHz, +0 dB ~ -3.0 dB

PHONO 'RIAA' response 40 Hz ~ 20 kHz, 1.5 dB ~ -3.0 dB

Maximum input level

PHONO (MM) 45 mV, 1% T.H.D. at 1 kHz

Signal to noise ratio (IHF'66)

PHONO (MM) 75 dB

Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) 95 dB

Loudness control

VOLUME at -30 dB level +6 dB (100 Hz)

Input sensitivity / impedance

PHONO (MM) 4.0 mV / 47 kΩ

Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) 320 mV / 47 kΩ

Output level / impedance

TAPE REC 320 mV / 1 kΩ

PRE OUT (FRONT,CENTER,SURROUND) 1 V / 500 Ω

PRE OUT (SURROUND BACK) 1 V / 500 Ω

PRE OUT (SUBWOOFER) 1 V / 500 Ω

Tone control

BASS ±10 dB (at 100 Hz)

TREBLE ±10 dB (at 10 kHz)

DIGITAL AUDIO section

Sampling frequency 32 kHz, 44.1 kHz, 48 kHz, 96 kHz

Input level / impedance / wave length

Optical (-15 dBm ~ -24 dBm), 660 nm ±30 nm

Coaxial 0.5 Vp-p / 75 Ω

Output level / impedance / wave length

Optical (-21 dBm ~ -15 dBm), 660 nm ±30 nm

VIDEO section

VIDEO inputs / outputs

VIDEO (composite) 1 Vp-p / 75 Ω

S VIDEO inputs / outputs

S VIDEO (luminance signal) 1 Vp-p / 75 Ω

S VIDEO (chrominance signal) 0.286 Vp-p / 75 Ω

COMPONENT VIDEO inputs / outputs

COMPONENT VIDEO (luminance signal) 1 Vp-p / 75 Ω

COMPONENT VIDEO (CB/CR-signal) ±0.32 Vp-p / 75 Ω

FM tuner section

Tuning frequency range 87.5 MHz ~ 108 MHz

Usable sensitivity (MONO)

VR-6070

..... 1.3 μV (75 Ω) / 13.2 dBf (75 kHz dev, SINAD 30 dB)

KRF-X9060D

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

50 dB quieting sensitivity

STEREO 28 μV (75 Ω) / 40.2 dBf

Total harmonic distortion

MONO (1 kHz, 75 kHz dev) 0.5% (65 dBf input)

STEREO (1 kHz, 67.5 + 6.75 kHz dev) 0.7% (65 dBf input)

Signal to noise ratio

MONO (1 kHz, 75 kHz dev) 75 dB (65 dBf input)

STEREO (1 kHz, 67.5 + 6.75 kHz dev) 68 dB (65 dBf input)

Stereo separation (1 kHz) 40 dB

Selectivity (±400 kHz) (VR-6070) 70 dB

(KRF-X9060D) 50 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 (VR-6070)

10 kHz step 530 kHz ~ 1,610 kHz (KRF-X9060D)

9 kHz step 531 kHz ~ 1,602 kHz (KRF-X9060D)

Usable sensitivity (30% mod, S/N 20 dB) 16 μV / (600 μV/m)

Signal to noise ratio (30% mod, 400 Hz)

..... 50 dB (60 dBμ VEMF input)

GENERAL

Power consumption VR-6070 3 A

KRF-X9060D 300 W

AC outlet

SWITCHED VR-6070 (total 150 W, 1.25 A max.)

KRF-X9060D (total 90 W max.)

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

H : 159 mm (6-1/4")

D : 392 mm (15-7/16")

Weight (Net)

VR-6070 9.4 kg (20.7 lb)

KRF-X9060D 10.0 kg (22.0 lb)

KRF-V6060D/V7060D/V8060D/X9060D/VR-6050/6060/6070

SPECIFICATIONS

For the U.K. only

AUDIO section (KRF-X9060D)

| | |
|--|-----------------------------------|
| Rated power output during STEREO operation DIN/IEC (20 Hz ~ 20 kHz, 0.09% T.H.D. at 6 Ω) | 100 W + 100 W |
| Effective power output during SURROUND operation FRONT (20 Hz ~ 20 kHz, 0.09% T.H.D. at 6 Ω one channel driven) | 100 W + 100 W |
| CENTER (20 Hz ~ 20 kHz, 0.09% T.H.D. at 6 Ω one channel driven) | 100 W |
| SURROUND (20 Hz ~ 20 kHz, 0.7% T.H.D. at 6 Ω one channel driven) | 100 W + 100 W |
| SURROUND BACK/SUBWOOFER (20 Hz ~ 20 kHz, 0.09% T.H.D. at 6 Ω one channel driven) | 100 W |
| Total harmonic distortion | 0.009% (1 kHz, 50 W, 6 Ω) |
| Frequency response Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) | 10 Hz ~ 100 kHz, +0 dB ~ -3.0 dB |
| PHONO 'RIAA' response | 40 Hz ~ 20 kHz, +1.5 dB ~ -3.0 dB |
| Maximum input level PHONO (MM) | 45 mV, 1% T.H.D. at 1 kHz |
| Signal to noise ratio (IHF'66) PHONO (MM) | 75 dB |
| Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) | 95 dB |
| Loudness control VOLUME at -30 dB level | +6 dB (100 Hz) |
| Input sensitivity / impedance PHONO (MM) | 4.0 mV / 47 kΩ |
| Line (CD/DVD, TAPE, VIDEO 1, VIDEO 2, VIDEO 3, DVD/6CH) | 320 mV / 47 kΩ |
| Output level / impedance TAPE REC | 320 mV / 1 kΩ |
| PRE OUT (FRONT,CENTER,SURROUND) | 1 V / 500 Ω |
| PRE OUT (SURROUND BACK) | 1 V / 500 Ω |
| PRE OUT (SUBWOOFER) | 1 V / 500 Ω |
| Tone control BASS | ±10 dB (at 100 Hz) |
| TREBLE | ±10 dB (at 10 kHz) |

DIGITAL AUDIO section

| | |
|---|------------------------------------|
| Sampling frequency | 32 kHz, 44.1 kHz, 48 kHz, 96 kHz |
| Input level / impedance / wave length Optical | (-15 dBm ~ -24 dBm), 660 nm ±30 nm |
| Coaxial | 0.5 Vp-p / 75 Ω |
| Output level / impedance / wave length Optical | (-21 dBm ~ -15 dBm), 660 nm ±30 nm |

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).

VIDEO section

| | |
|--|-------------------|
| VIDEO inputs / outputs VIDEO (composite) | 1 Vp-p / 75 Ω |
| S VIDEO inputs / outputs S VIDEO (luminance signal) | 1 Vp-p / 75 Ω |
| S VIDEO (chrominance signal) | 0.286 Vp-p / 75 Ω |
| COMPONENT VIDEO inputs / outputs COMPONENT VIDEO (luminance signal) | 1 Vp-p / 75 Ω |
| COMPONENT VIDEO (CB/CR-signal) | ±0.32 Vp-p / 75 Ω |

FM tuner section

| | |
|---|--|
| Tuning frequency range | 87.5 MHz ~ 108 MHz |
| Usable sensitivity MONO | 1.3 μV (75 Ω)/ 13.2 dBf (40 kHz dev, S/N 26 dB) |
| STEREO | 45 μV (75 Ω)/ 42.1 dBf (40 + 6 kHz dev, S/N 46 dB) |
| Total harmonic distortion MONO (1 kHz, 40 kHz dev) | 0.2% (65.2 dBf input) |
| STEREO (1 kHz, 40 + 6 kHz dev) | 0.8% (65.2 dBf input) |
| Signal to noise ratio (DIN weighted at 1 kHz) MONO | 65 dB (65.2 dBf input) |
| STEREO | 60 dB (65.2 dBf input) |
| Stereo separation (1 kHz) | 36 dB |
| Selectivity (±300 kHz) | 64 dB |
| Frequency response (30 Hz ~ 15 kHz) | +0.5 dB, -3.0 dB |

MW 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 (400 Hz, 30% mod) | 50 dB (60 dBμ VEMF input) |

GENERAL

| | |
|-----------------------|---|
| Power consumption | 330 W |
| AC outlet SWITCHED | (total 90 W max.) |
| Dimensions | W : 440 mm (17-5/16") H : 159 mm (6-1/4") D : 392 mm (15-7/16") |
| Weight (Net) | 9.8 kg (21.6 lb) |

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