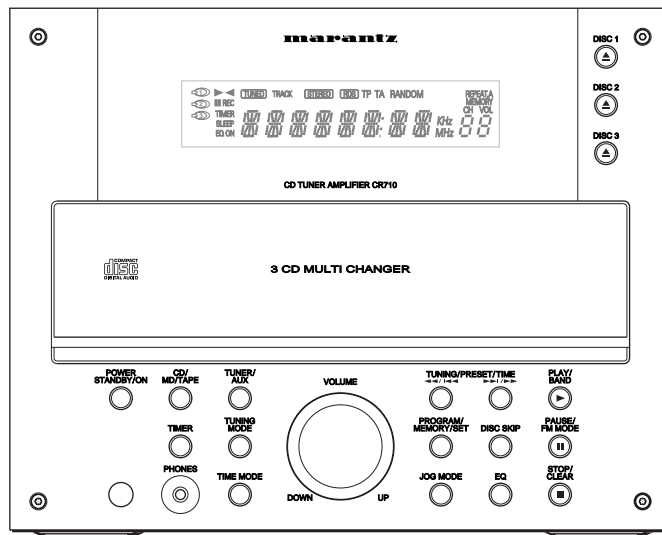


Service Manual

CR710/F1W, /C1W

CD Tuner Amplifier



COMPACT
disc
DIGITAL AUDIO

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Please use this service manual with referring to the user guide (D.F.U) without fail.
修理の際は、必ず取扱説明書を準備し操作方法を確認の上作業を行って下さい。

marantz®

CR710

MARANTZ DESIGN AND SERVICE

Using superior design and selected high grade components, **MARANTZ** company has created the ultimate in stereo sound. Only original **MARANTZ** parts can insure that your **MARANTZ** product will continue to perform to the specifications for which it is famous.

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Parts can be ordered either by mail or by Fax.. In both cases, the correct part number has to be specified.

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2. Complete part numbers and quantities required
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4. Model number for which part is required
5. Way of shipment
6. Signature : any order form or Fax. must be signed, otherwise such part order will be considered as null and void.

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MARANTZ AMERICA, INC.
1100 MAPLEWOOD DRIVE
ITASCA, IL. 60143
USA
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FAX : 630 - 741 - 0301

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FAX : +31 - 40 - 2735578

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PHILIPS DA AMAZONIA IND. ELET. ITDA
CENTRO DE INFORMACOES AO
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MARANTZ PROFESSIONAL PRODUCTS
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AURORA, ILLINOIS 60504 USA
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FAX : 630 - 820 - 8103

PROFESSIONAL AUSTRALIA

TECHNICAL AUDIO GROUP PTY, LTD
558 DARLING STREET,
BALMAIN, NSW 2041,
AUSTRALIA
PHONE : 61 - 2 - 9810 - 5300
FAX : 61 - 2 - 9810 - 5355

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LENBROOK INDUSTRIES LIMITED
633 GRANITE COURT,
PICKERING, ONTARIO L1W 3K1
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FAX : 905 - 831 - 6936

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24 LIONEL ROAD,
MT. WAVERLEY VIC 3149
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PHONE : +61 - (0)3 - 9543 - 1522
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THAILAND

MRZ STANDARD CO.,LTD
746 - 754 MAHACHAI ROAD.,
WANGBURAPAPIROM, PHRANAKORN,
BANGKOK, 10200 THAILAND
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FAX : +66 - 2 - 224 6795

SINGAPORE

WO KEE HONG DISTRIBUTION PTE LTD
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#03-02 OLIVINE BUILDING
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FAX : +65 858 6078

NEW ZEALAND

WILDASH AUDIO SYSTEMS NZ
14 MALVERN ROAD MT ALBERT
AUCKLAND NEW ZEALAND
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FAX : +64 - 9 - 8463554

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6 TH FL NO, 148 SUNG KIANG ROAD,
TAIPEI, 10429, TAIWAN R.O.C.
PHONE : +886 - 2 - 25221304
FAX : +886 - 2 - 25630415

MALAYSIA

WO KEE HONG ELECTRONICS SDN. BHD.
SUITE 8.1, LEVEL 8, MENARA GENESIS,
NO. 33, JALAN SULTAN ISMAIL,
50250 KUALA LUMPUR, MALAYSIA
PHONE : +60 3 - 2457677
FAX : +60 3 - 2458180

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営業本部 〒150-0022
東京都渋谷区恵比寿南1-11-9

KOREA

MK ENTERPRISES LTD.
ROOM 604/605, ELECTRO-OFFICETEL, 16-58,
3GA, HANGANG-RO, YONGSAN-KU, SEOUL
KOREA
PHONE : +822 - 3232 - 155
FAX : +822 - 3232 - 154

SHOCK, FIRE HAZARD SERVICE TEST :

CAUTION : After servicing this appliance and prior to returning to customer, measure the resistance between either primary AC cord connector pins (with unit NOT connected to AC mains and its Power switch ON), and the face or Front Panel of product and controls and chassis bottom.

Any resistance measurement less than 1 Megohms should cause unit to be repaired or corrected before AC power is applied, and verified before it is return to the user/customer.

Ref. UL Standard No. 1492.

In case of difficulties, do not hesitate to contact the Technical Department at above mentioned address.

1. TECHNICAL SPECIFICATIONS

Amplifier section

| | |
|---|--|
| 1 kHz continuous output | stereo channel drive, 2ch x 20W, 0.5% |
| S/N | Aux, Tape, MD (IHF-A) 90dB |
| Input sensitivity & Impedance... Aux, Tape, MD(IHF-A) | 200mV |
| Frequency character Aux, Tape, MD | 10Hz~60kHz(-3dB) |
| Tone control: Treble | ±9dB |
| Bass | ±9dB |

Tuner section

<FM>

| | |
|---------------------------------|-----------------------------------|
| Frequency range... | 87.5~108.00 MHz (100kHz interval) |
| Input Sensitivity..... | 15dB (S/N 30dB) |
| Total Harmonic Distortion | 0.2% |
| S/N ratio: Mono | 65dB |
| Stereo | 60dB |
| Stereo separation 1kHz | 35dB |

<AM>

| | |
|---------------------------------|------------------------------|
| Frequency range | 522~1620 kHz (9kHz interval) |
| Input sensitivity | 50dB (S/N 20dB) |
| Total Harmonic Distortion | 1.5% |
| S/N ratio | 40dB |

CD section

| | |
|--------------------------|--------------------------------------|
| Channels | 2 Channels |
| Frequency response | 20Hz~ 20,000Hz ±1.5dB |
| S/N ratio | ≥87dB (IHF 'A' Filter) |
| Distortion | ≤0.1% |
| Channel separation | ≥65dB (1kHz) |
| Sampling rate | 44.1kHz |
| Error correction | CIRC |
| D/A conversion.. | CMOS delta-Sigma D/A converter(1Bit) |
| Optical readout | |
| Laser | Semiconductor laser |
| Wavelength | 780nm |

General

| | |
|-----------------------------|--------------------|
| Power supply | 220V, 60Hz |
| Power consumption | 105W |
| Dimension (W x H x D) | 175 x 140 x 360 mm |
| Weight | 4.0kg |

アンプ部

| | |
|-------------|-------------------------------|
| 定格出力 | 20W + 20W (0.5%, 1kHz, 6Ω) |
| 入力感度 | 200mV |
| 周波数特性 | 20Hz ~ 40kHz |

FM チューナー部

| | |
|-------------|-------------------------------------|
| 受信周波数 | 76.0MHz ~ 90.0MHz (100 kHz ステップ) |
|-------------|-------------------------------------|

AM チューナー部

| | |
|-------------|---------------------------------|
| 受信周波数 | 522kHz ~ 1620kHz (9kHz ステップ) |
|-------------|---------------------------------|

CD プレイヤー部

| | |
|---------------|---------------------------|
| 周波数特性 | 20Hz ~ 20kHz (± 1.5dB) |
| S/N 比 | 85dB 以上 |
| ワウフラッター | 測定限界以下 |

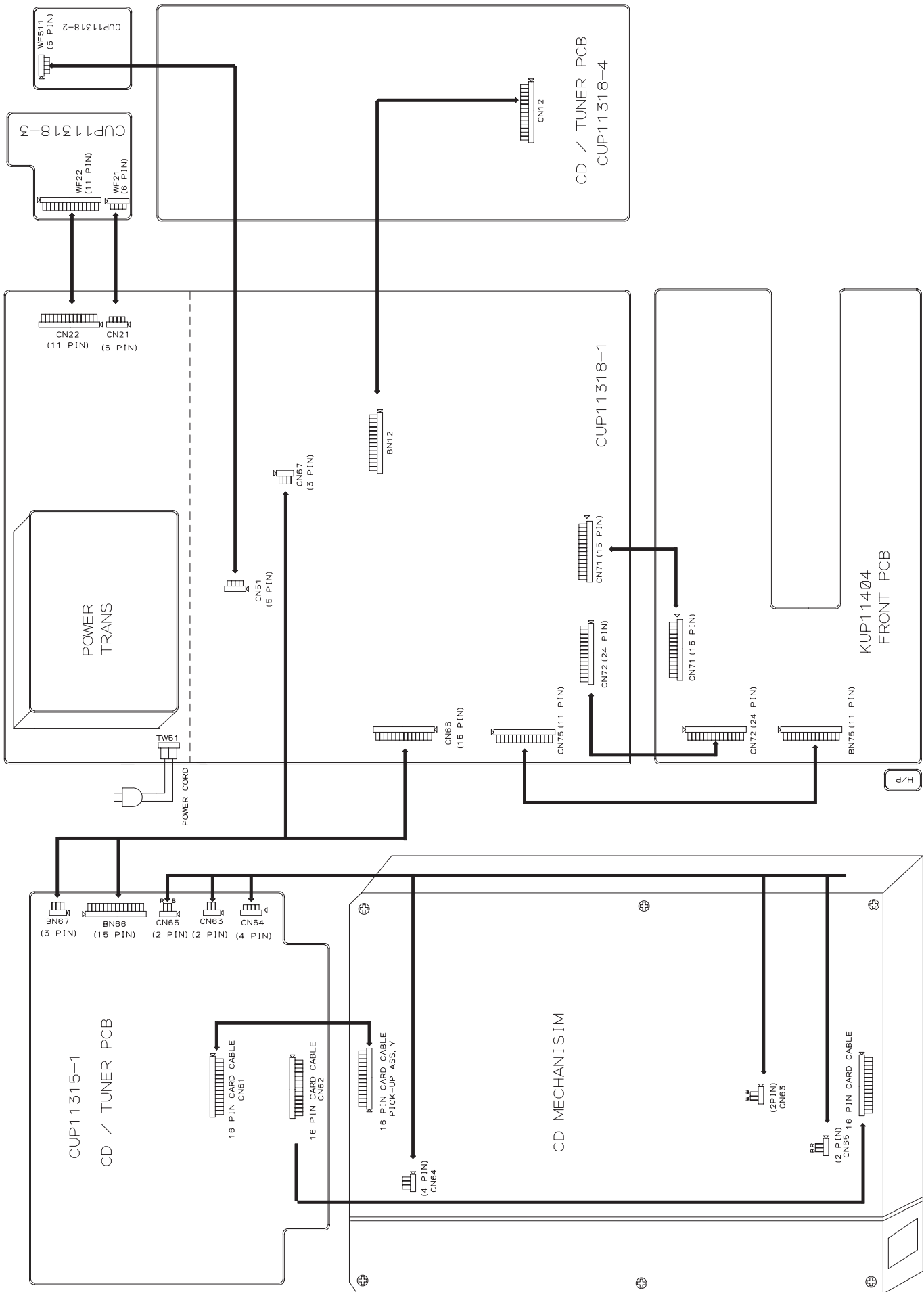
一般事項

| | |
|------------------------|-------------------|
| 電源 | AC 100V, 50/60Hz |
| 消費電力 <電気用品取締法> | 60W |
| 最大外形寸法 (幅×高さ×奥行) | 175 × 140 × 361mm |
| 質量 | 4.0kg |

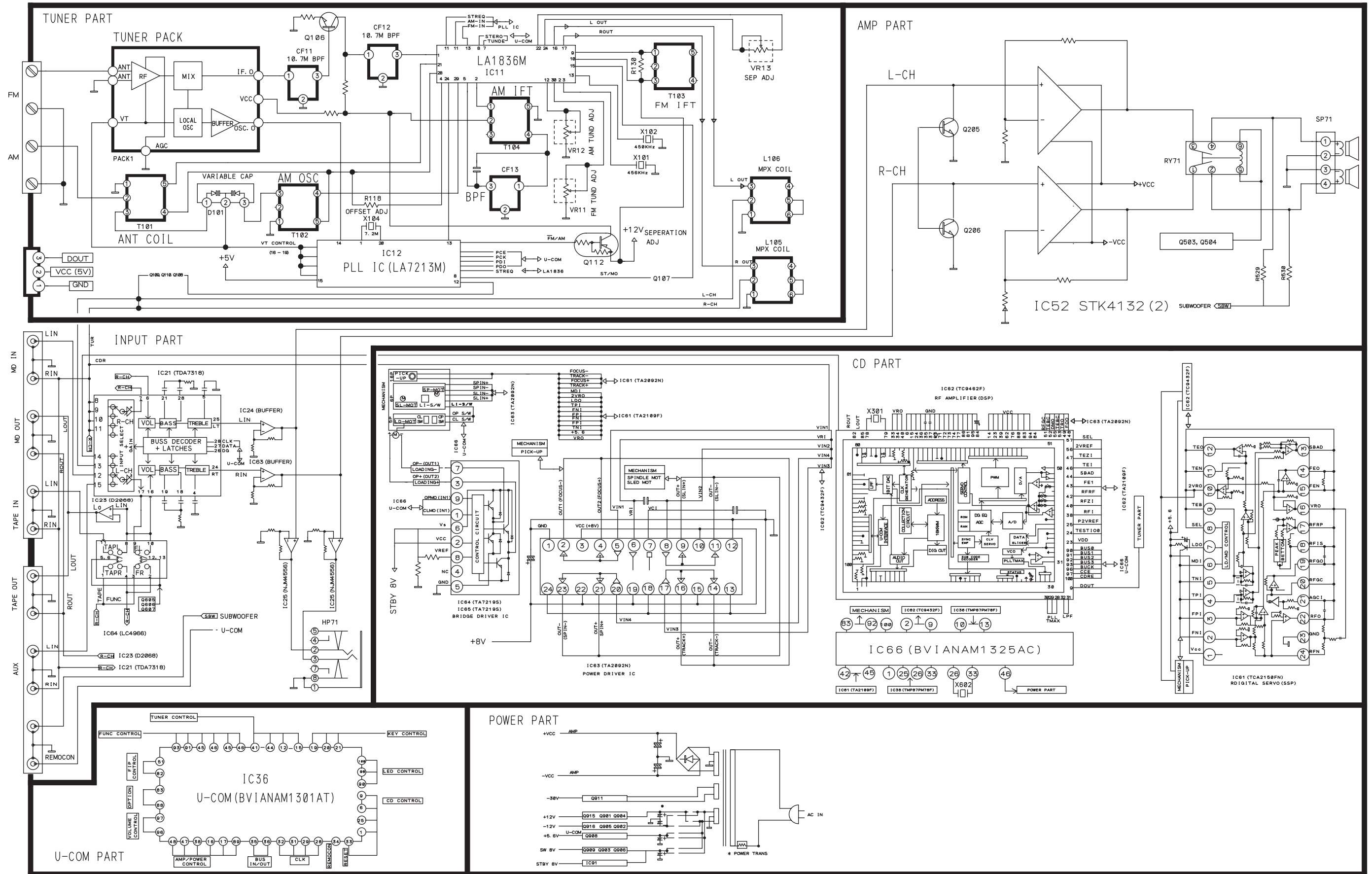
付属品

| | |
|-------------------------|-------------------|
| リモコン送信機 (RC710CR) | 1 個 |
| 外形寸法 (幅×高さ×奥行) | 50 × 179 × 20.5mm |
| 質量 | 80g |
| 単 3 形乾電池 (SUM3) | 2 本 |
| FM 室内アンテナ (簡易型) | 1 個 |
| FM アンテナアダプター | 1 個 |
| AM ループアンテナ | 1 個 |
| 取扱説明書 | 1 冊 |
| 保証書 | 1 部 |

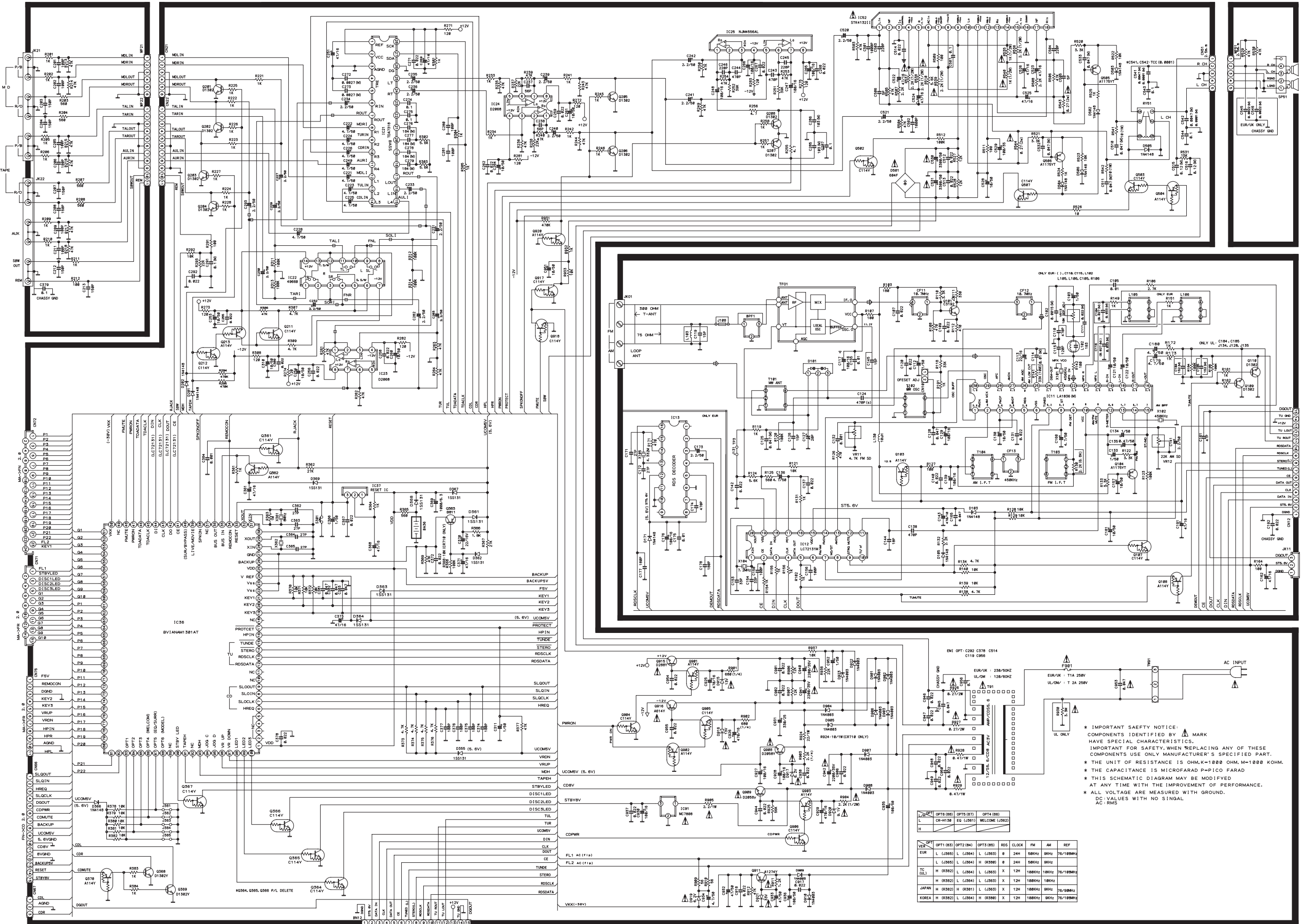
2. WIRING DIAGRAM



3. BLOCK DIAGRAM



4. SCHEMATIC DIAGRAM AND PARTS LOCATION (Parts side)

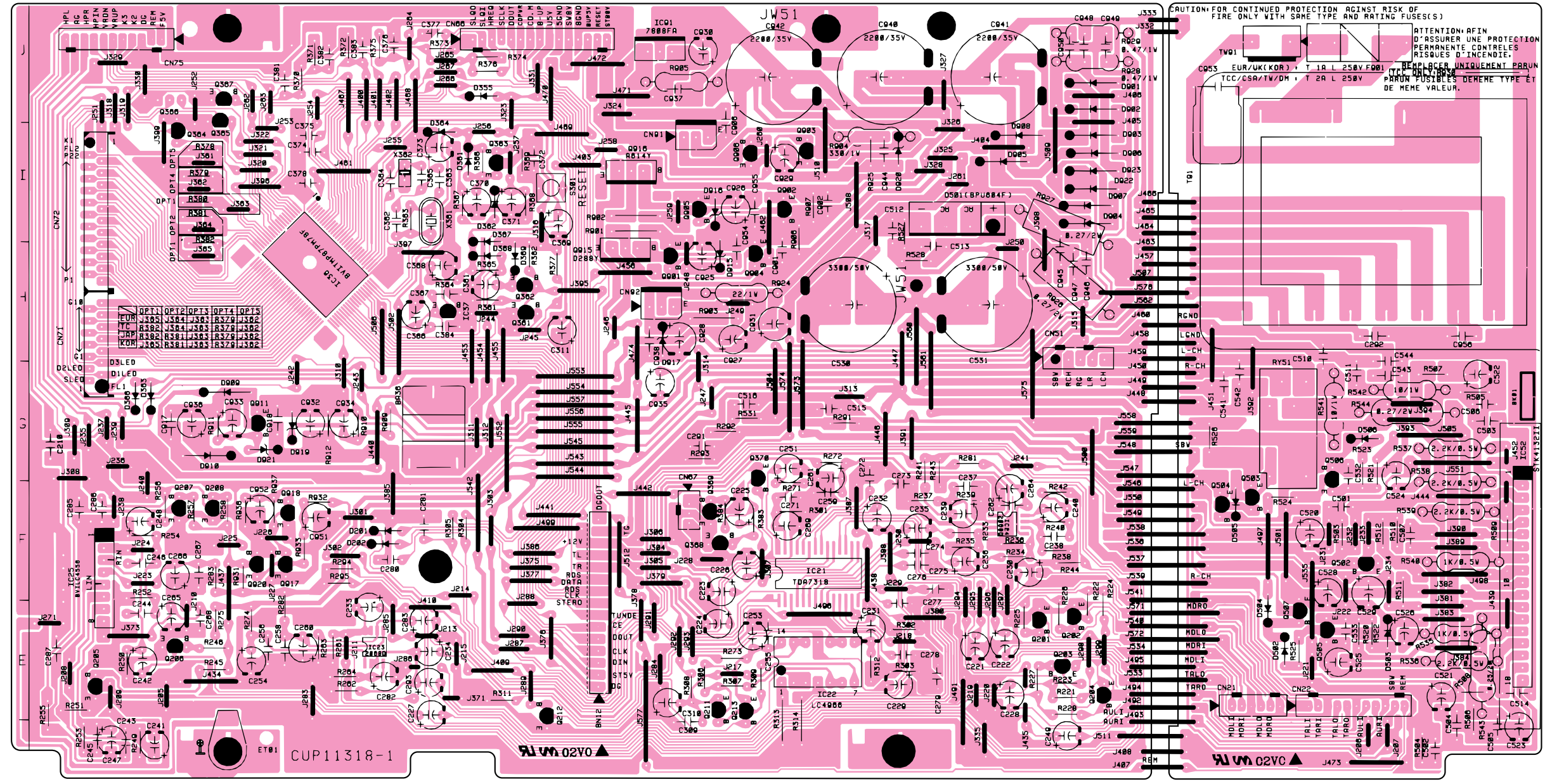


*** IMPORTANT SAFETY NOTICE:**
 COMPONENTS IDENTIFIED BY Δ MARK
 HAVE SPECIAL CHARACTERISTICS.
 IMPORTANT FOR SAFETY, WHEN REPLACING ANY OF THESE
 COMPONENTS USE ONLY MANUFACTURER'S SPECIFIED PART.
 * THE UNIT OF RESISTANCE IS OHM, K=1000 OHM, M=1000 KOHM.
 * THE CAPACITANCE IS MICROFARAD P=PICO FARAD
 * THIS SCHEMATIC DIAGRAM MAY BE MODIFIED
 AT ANY TIME WITH THE IMPROVEMENT OF PERFORMANCE.
 * ALL VOLTAGE ARE MEASURED WITH GROUND.
 DC VALUES WITH NO SIGNAL
 AC: RMS

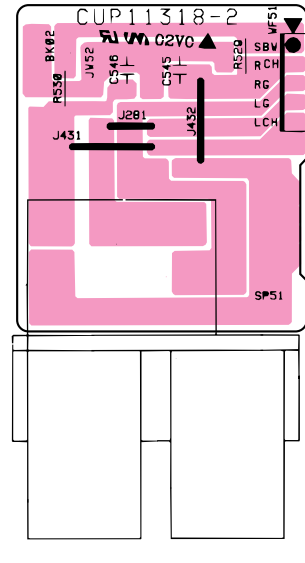
| OPT | OPT1 (83) | OPT2 (84) | OPT3 (85) | ROS | CLOCK | FM | AM | REF |
|---------|-----------|-----------|-----------|-----|-------|--------|--------|-----------|
| EUR | L (J360) | L (J364) | L (J363) | R | 24K | 80KHZ | 80KHZ | 76/1804K2 |
| IC (EL) | H (R322) | L (J364) | L (J363) | X | 12K | 180KHZ | 180KHZ | 76/1804K2 |
| JAPAN | H (R322) | L (J364) | L (J363) | X | 12K | 180KHZ | 180KHZ | 76/1804K2 |
| KOREA | H (R322) | L (J364) | L (J363) | X | 12K | 180KHZ | 180KHZ | 76/1804K2 |

MAIN PCB

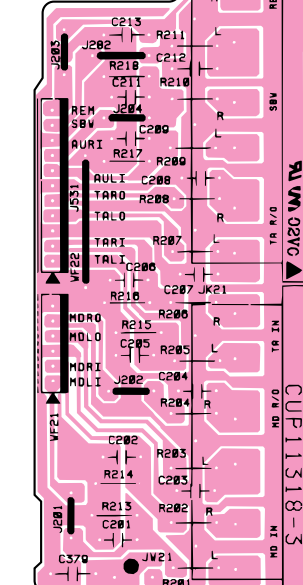
- Q701 IC25 Q205 Q306 Q207 Q206 Q307 Q305 Q208 Q911 Q912 Q913 Q914 Q915 Q916 Q917 IC36 IC37 IC38 IC39 Q362 Q363 Q361 Q212 Q211 Q915 Q916 Q901 IC91 IC92 Q905 Q369 Q368 Q211 Q906 Q904 Q370 Q213 Q902 IC22 Q202 Q201 Q203 Q204 Q504 Q503 Q507 Q505 Q502 Q506 IC52



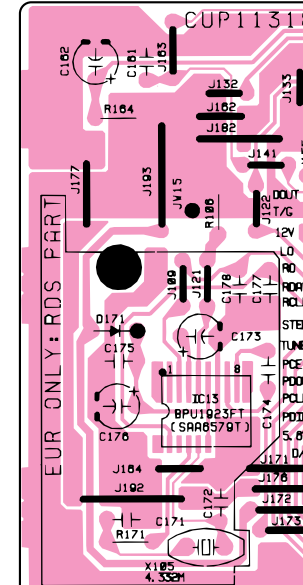
SPK TERMINAL PCB



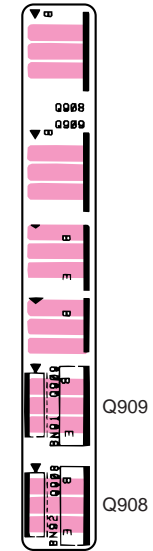
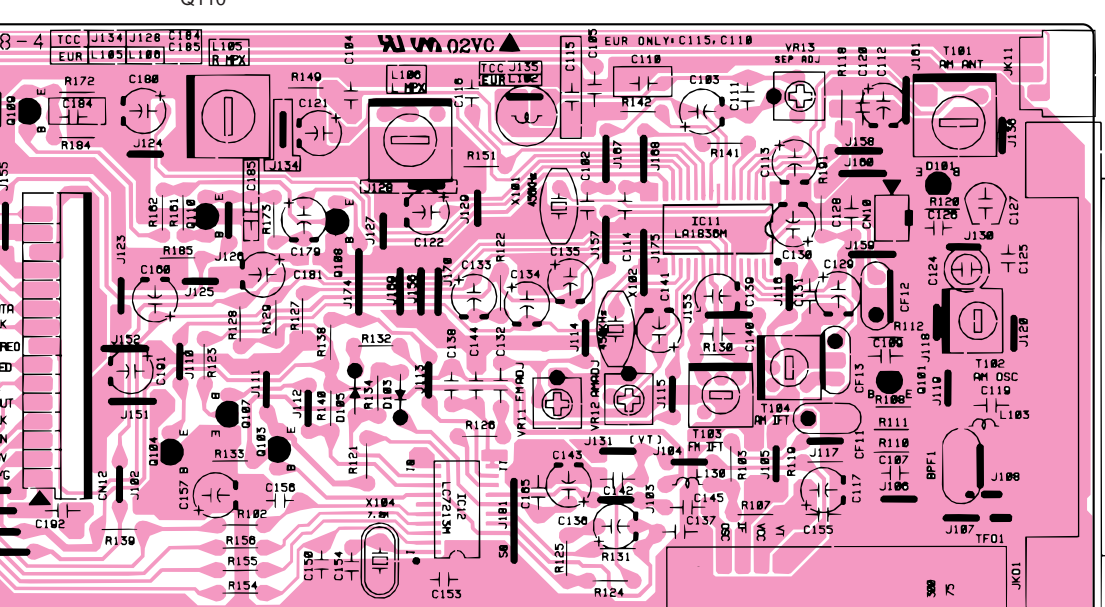
INPUT PCB

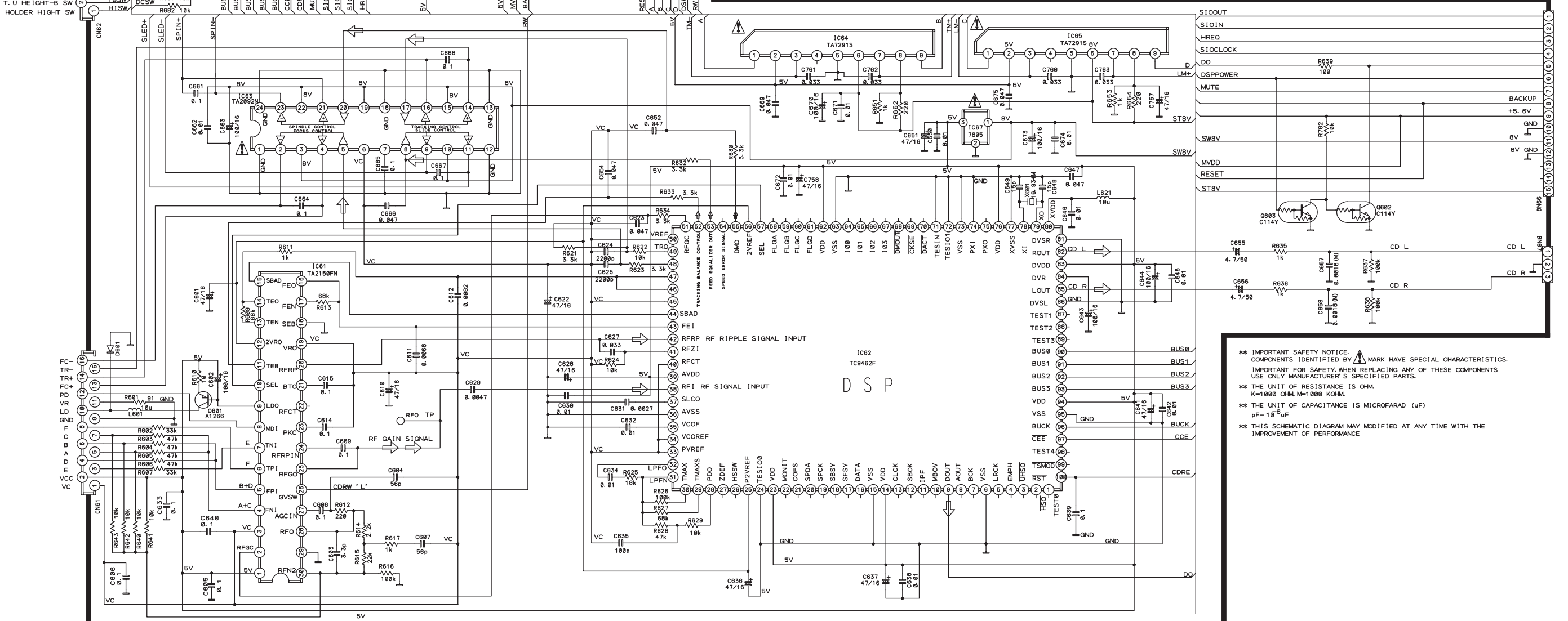
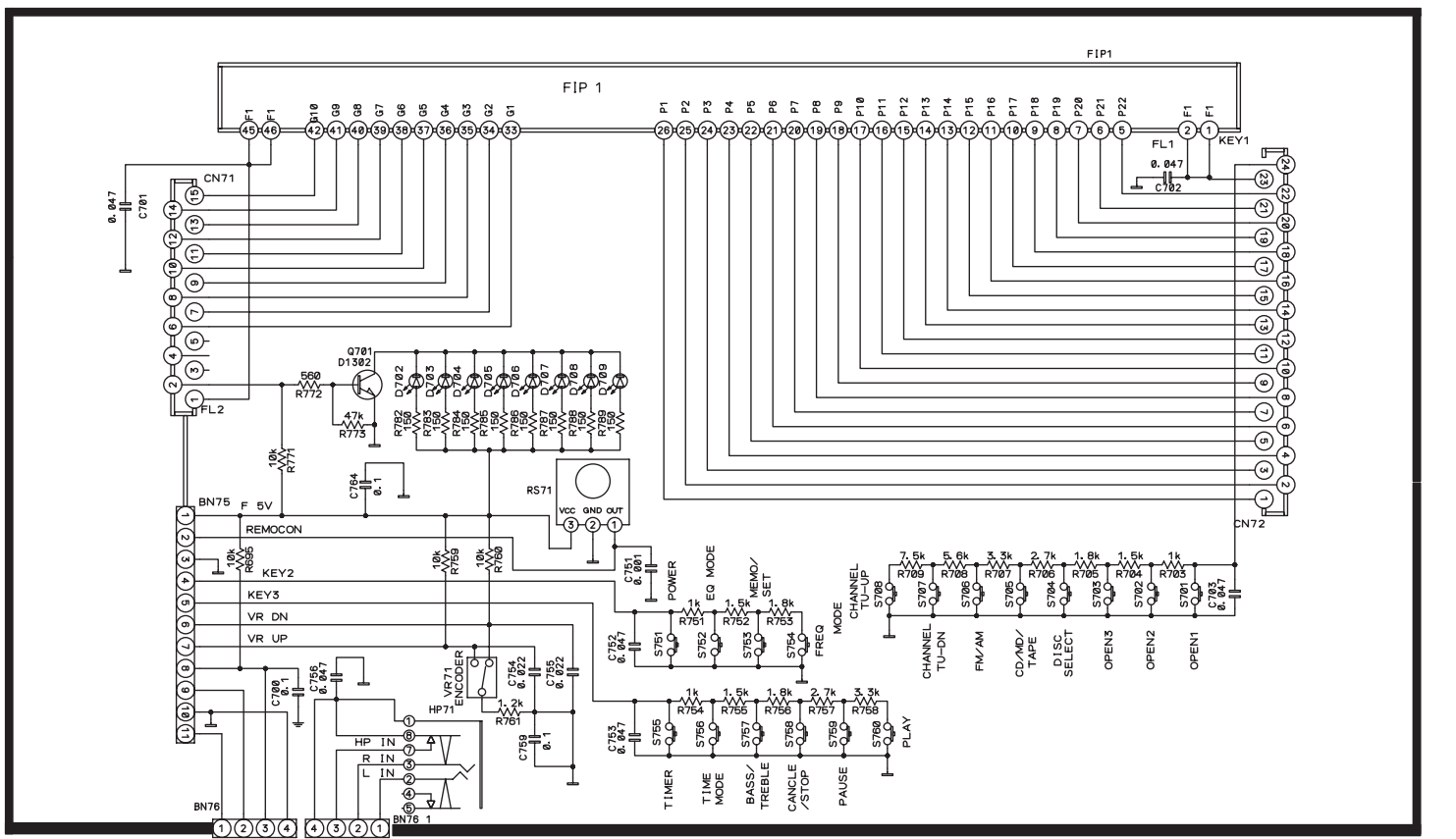
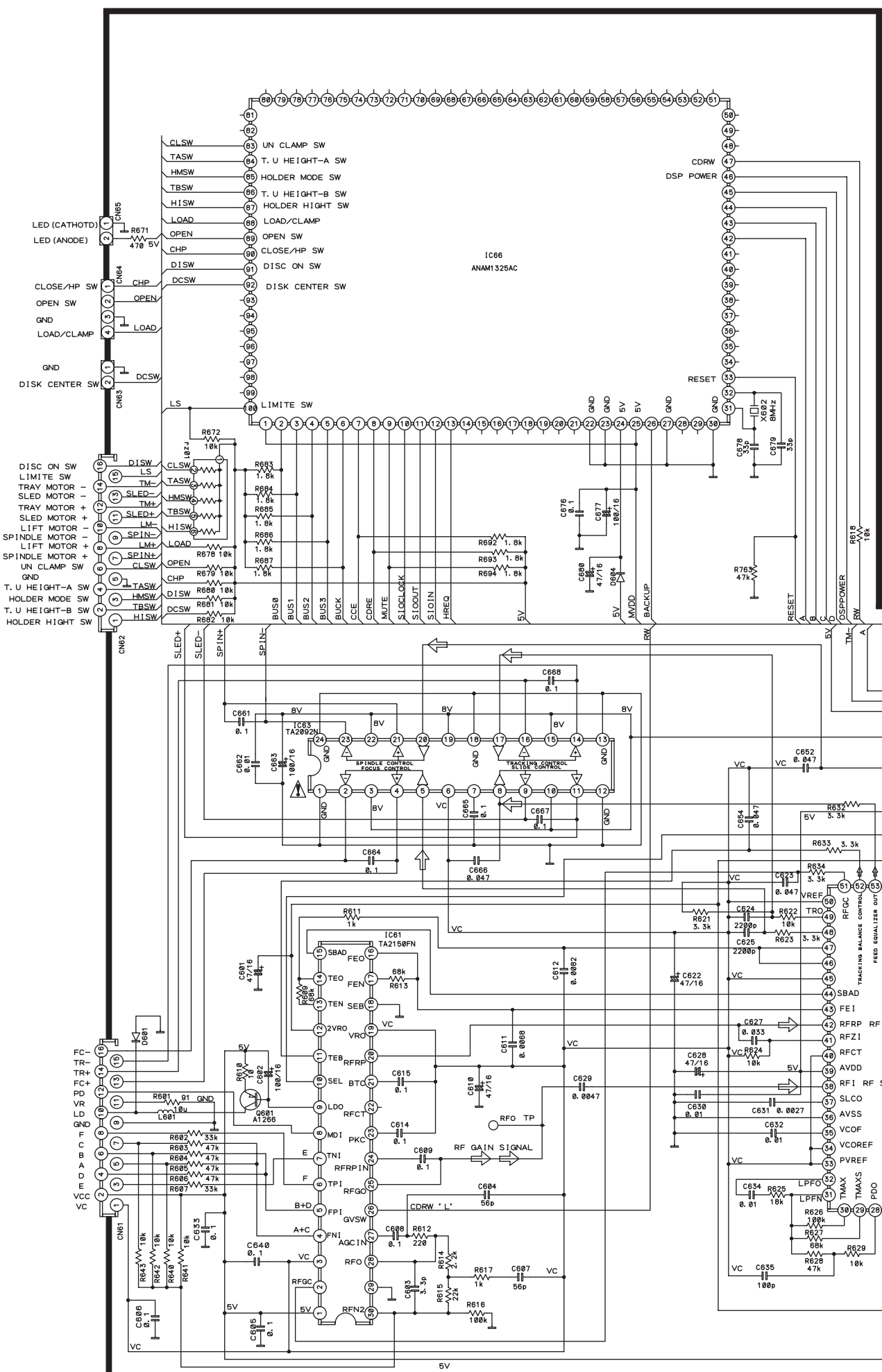


TUNER PCB



- IC13 Q109 Q104 Q107 Q103 Q108 Q101 IC12 IC11





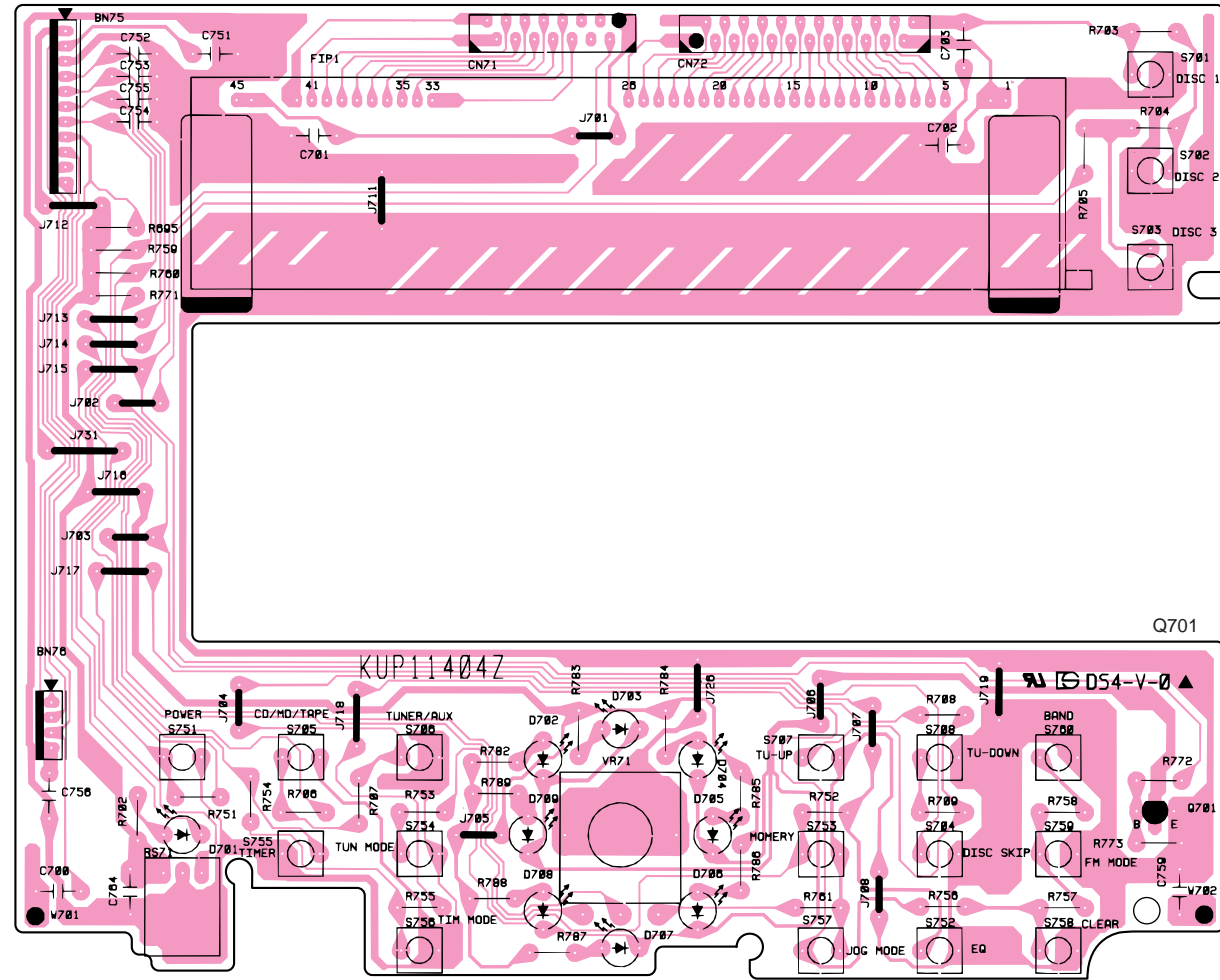
**** IMPORTANT SAFETY NOTICE** MARK HAVE SPECIAL CHARACTERISTICS. COMPONENTS IDENTIFIED BY MARK HAVE SPECIAL CHARACTERISTICS. IMPORTANT FOR SAFETY, WHEN REPLACING ANY OF THESE COMPONENTS USE ONLY MANUFACTURER'S SPECIFIED PARTS.

**** THE UNIT OF RESISTANCE IS OHM**
K=1000 OHM M=1000 KOHM

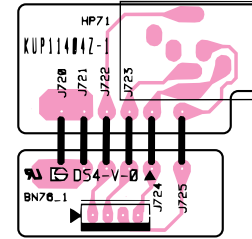
**** THE UNIT OF CAPACITANCE IS MICROFARAD (uF)**
pF=10⁻⁶ uF

**** THIS SCHEMATIC DIAGRAM MAY MODIFIED AT ANY TIME WITH THE IMPROVEMENT OF PERFORMANCE**

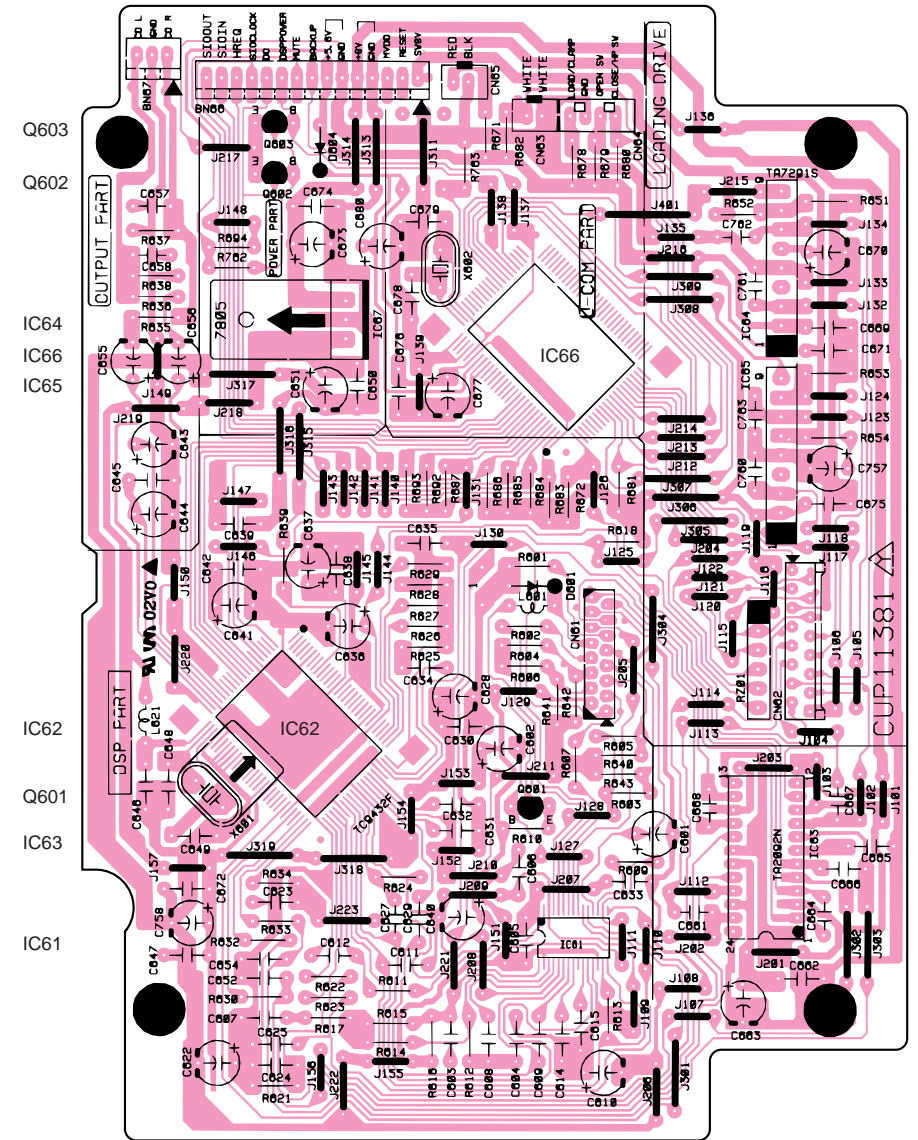
FRONT PCB



HEADPHONE PCB



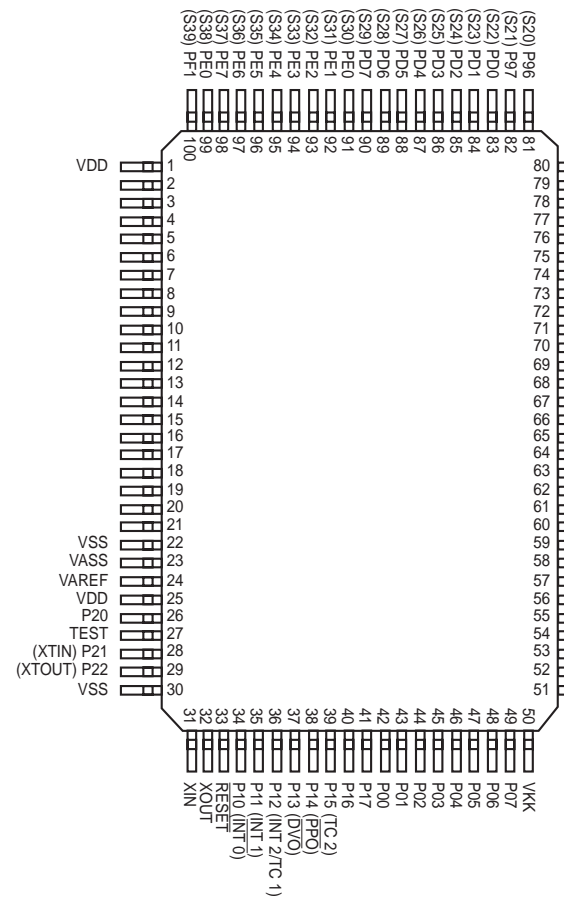
CD MECHANISM PCB



5. MICROPROCESSOR AND IC DATA

IC36 : BVIANAM1301T

PIN CONFIGURATION

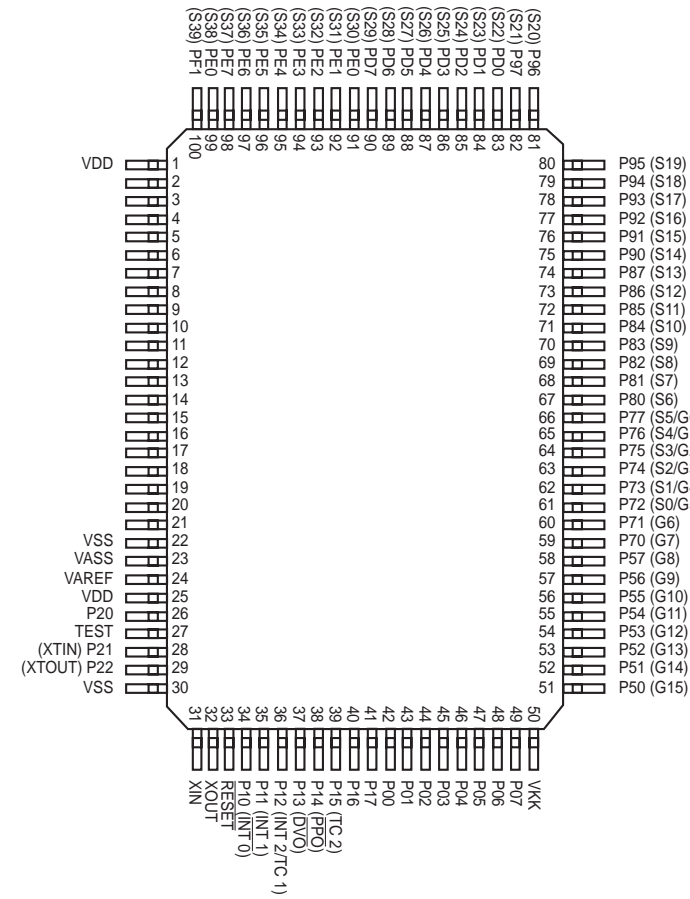


PIN FUNCTION

| PIN No. | NAME | I/O | DESCRIPTION |
|----------------|-------------|-----|---|
| 1, 25 | VDD | - | POWER SUPPLY (+5V) |
| 6 | HREQ | I/O | BUS for CD CLOCK |
| 7 | SLQCLK | I/O | BUS for CD CHIP ENABLE |
| 8 | SLQIN | I | RESET for CD |
| 9 | SLQOUT | O | MUTE for CD SINGLE |
| 12 | DATA | O | EUROPE VERSION RDS DATA CONTROL PORT |
| 13 | CLOCK | O | |
| 14 | STEREO IN | I | STEREO IN CONTROL INPUT |
| 15 | TUNED | I | TUNED CONTROL INPUT |
| 16 | HPIN | | |
| 17 | PROTECTOR | I | PROTECTOR IN PORT |
| 19, 20, 21 | KEY MATRIX | I | KEY MATRIX PORTS |
| 22, 23, 27, 30 | VSS | - | GND |
| 24 | VAREF | - | A/D CONVERTOR REFERENCE VOLTAGE |
| 26 | BACK UP | I | BACK-UP MODE CONTROL INPUT |
| 28, 29 | X-TAL | I | 32.768kHz SUB CLOCK CONNECTING PORT |
| 31 | X IN | I | 8MHz CRYSTAL CONNECTING TERMINAL |
| 32 | X OUT | O | |
| 33 | RESET | I | SYSTEM RESET PULSE INPUT |
| 34 | REMOTE IN | I | REMOTE CONTROL SIGNAL INPUT |
| 35 | BUS IN | I | REMOTE CONTROL SIGNAL INPUT |
| 36 | BUS OUT | O | REMOTE CONTROL SIGNAL INPUT |
| 38 | SPEAKER | O | SPEAKER ON/OFFPORT |
| 41 | CE | O | |
| 42 | DATA OUT | O | PLL DATA CONTROL PORT |
| 43 | CLOCK | O | |
| 44 | DATA IN | I | |
| 45 | CLOCK | O | |
| 46 | DATA | O | TDA7318D DATA CONTROL PORT |
| 47 | POWER | O | POWER ON/OFF |
| 48 | MUTE | O | SIGNAL MUTE |
| 50 | VFL | O | (-33V) NEGATIVE POWER SUPPLY FOR FIP BLINKING |
| 52 - 60 | GRID | O | FIP GRID CONTROL OUTPUTS |
| 61 - 82 | SEGMENT | O | FIP SEGMENT CONTROL OUTPUTS |
| 83 - 87 | | I | AREA OPTION |
| 89 | CD POWER | O | CD POWER ON/OFF PORT |
| 90 | ON/SBY LED | O | ON/STANDBY LED CONTROL PORT |
| 91 | TAPE 'H' | O | ON TAPE FUNCTION 'H' OUTPUT PORT |
| 93 | MD 'H' | O | ON MD FUNCTION 'H' OUTPUT PORT |
| 96, 97 | JOG CONTROL | I | VOL/BAL/BASS/TRE CONTROL JOG INPUT PORT |

IC66 : BVIANAM1325AC

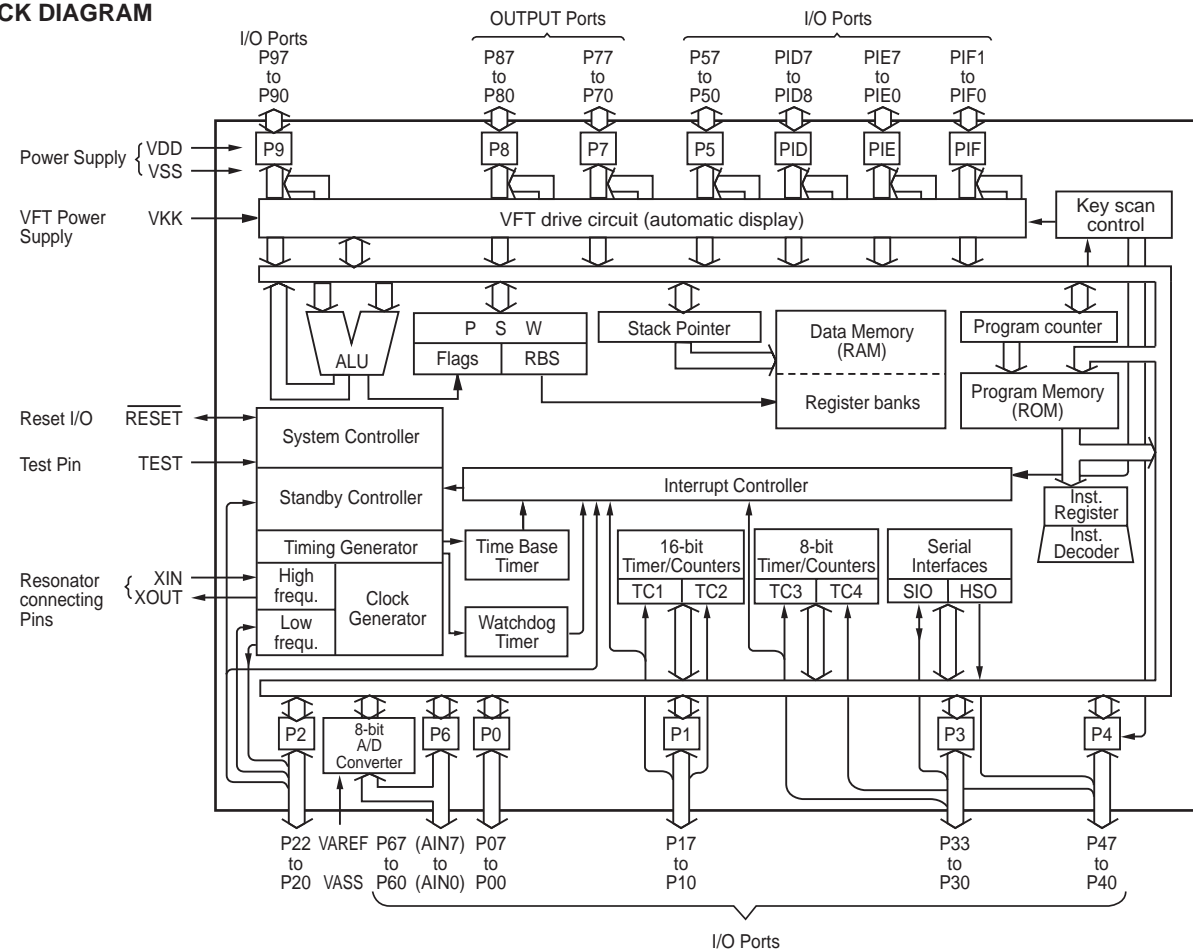
PIN CONFIGURATION



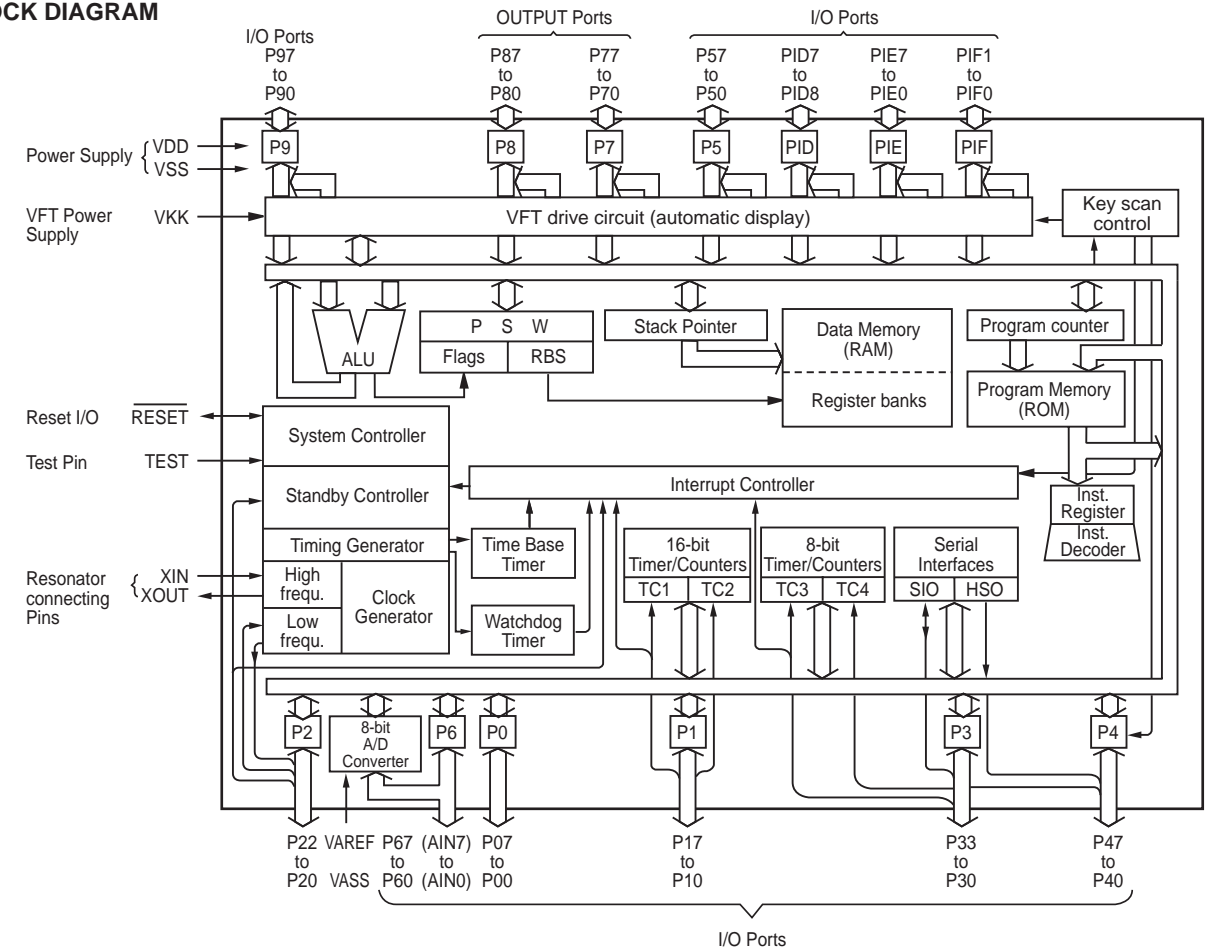
PIN FUNCTION

| PIN No. | NAME | I/O | DESCRIPTION |
|----------------|------------------|-----|----------------------------------|
| 1, 25 | VDD | - | POWER SUPPLY (+5V) |
| 2 | BUS 0 | I/O | BUS for CD DATA |
| 3 | BUS 1 | I/O | BUS for CD DATA |
| 4 | BUS 2 | I/O | BUS for CD DATA |
| 5 | BUS 3 | I/O | BUS for CD DATA |
| 6 | BUCK | I/O | BUS for CD CLOCK |
| 7 | CCE | I/O | BUS for CD CHIP ENABLE |
| 8 | CDRE | O | RESET for CD |
| 9 | MUTE | O | MUTE for CD SINGLE |
| 10 | SIO CLOCK | I/O | |
| 11 | SIO OUT | I/O | BUS for CD DATA |
| 12 | SIO IN | I/O | |
| 13 | HREQ | I/O | |
| 22, 23, 27, 30 | VSS | - | GND |
| 31 | X IN | I | 8MHz CRYSTAL CONNECTING TERMINAL |
| 32 | X OUT | O | |
| 33 | RESET | I | SYSTEM RESET |
| 42 | A | O | |
| 43 | B | O | |
| 44 | C | O | PLL DATA CONTROL PORT |
| 45 | D | O | |
| 46 | DSP POWER | O | CD POWER ON/OFF |
| 47 | CD-RW | O | LOW: CD-RW, HIGH: CD |
| 83 | UN CLAMP SW | I | MECHANISM SW CONDITION |
| 84 | T.U HEIGHT SW | I | |
| 85 | HOLDER MODE SW | I | |
| 86 | T.U HEIGHT SW | I | |
| 87 | HOLDER HEIGHT SW | I | |
| 88 | LOAD/CLAMP | I | |
| 89 | OPEN SW | I | |
| 90 | CLOSE/HP SW | I | |
| 91 | DISCON SW | I | |
| 92 | DISC CENTERSW | I | |
| 100 | LIMIT SW | I | |

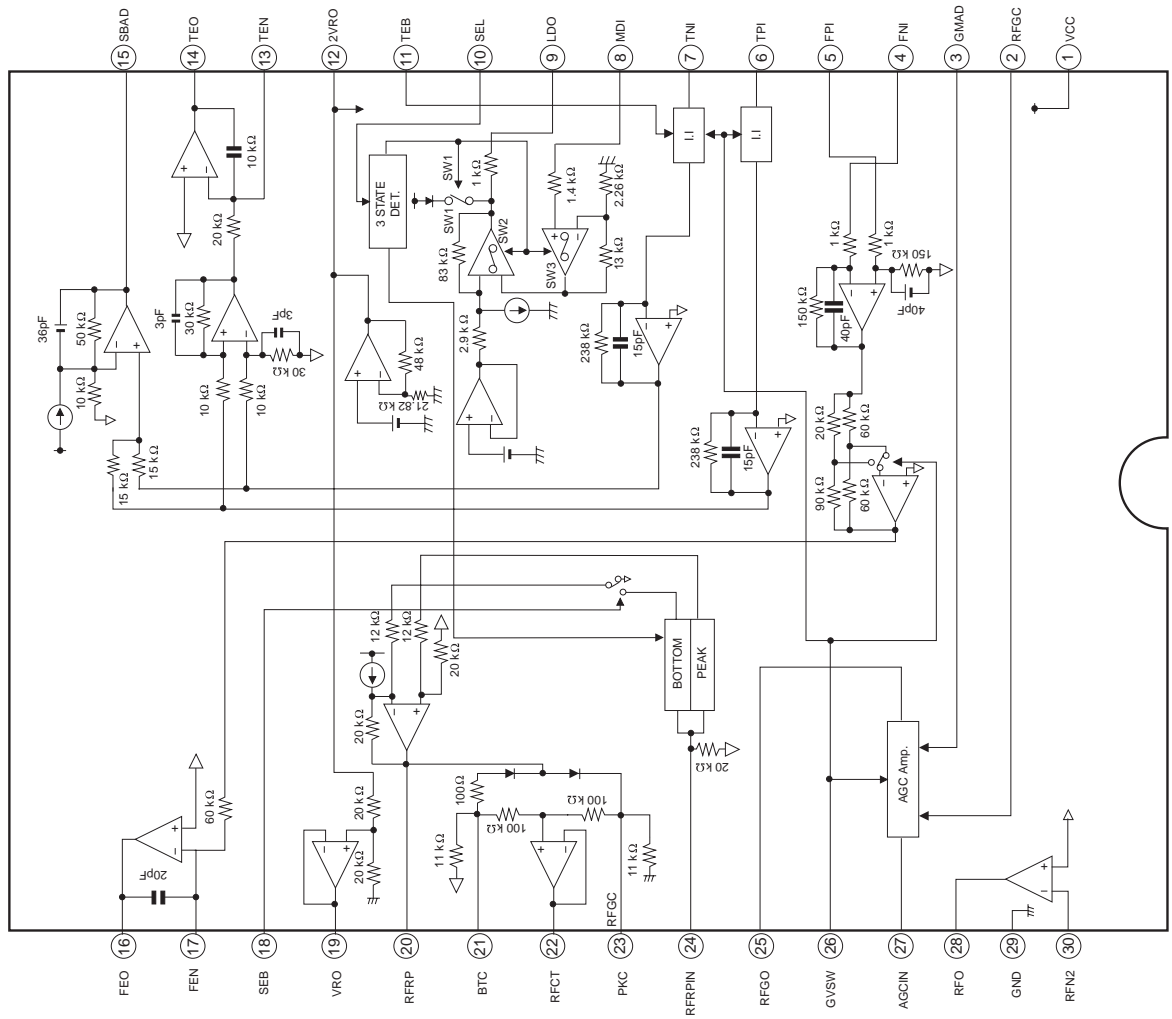
BLOCK DIAGRAM



BLOCK DIAGRAM



IC61 : TA2150FN (RF/DIGITAL SERVO) BLOCK DIAGRAM



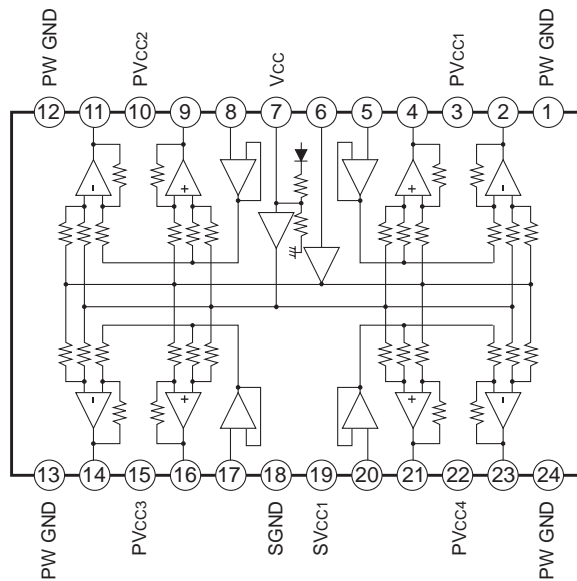
PIN FUNCTION

| PIN No. | NAME | I/O | DESCRIPTION | REMARK | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|---------------|-------------|--|---|---------------|-------------|-----|----------------------|----|-----|-----|-----|-----|-----|----|-----------------------------|-----|-----|-----|-----|----|----|-----|-----|-----|----|----|------|----------------------------------|
| 1 | VCC | - | Power supply input terminal | - | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | RFGC | I | RF amplitude adjustment control signal input terminal. Controlled by 3 PWM signal (PWM carrier = 88.2 kHz) | 3 signal input (2 VRO, VRO, GND) | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | GMAD | I | Open loop gain adjustment terminal for AGC amp. | (Note1) | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | FNI | I | Main beam I-V amp input terminal. | Connected to pin diode output B+D (through resistor). | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | FPI | I | Main beam I-V amp input terminal. | Connected to pin diode output A+C (through resistor). | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | TPI | I | Sub beam I-V amp input terminal. | Connected to pin diode output F. | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | TNI | I | Sub beam I-V amp input terminal. | Connected to pin diode output E. | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | MDI | I | Monitor photo diode amp input terminal. | Connected to monitor photo diode. | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | LDO | O | Laser diode amp input terminal. | Connected to laser diode control circuit. | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | SEL | I | Laser diode control signal input terminal and APC circuit ON/OFF control signal terminal. <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>SEL</th> <th colspan="3">LDC</th> <th>RFRP Detct Frequency</th> </tr> <tr> <th></th> <th>SW1</th> <th>SW2</th> <th>SW3</th> <th></th> </tr> </thead> <tbody> <tr> <td>GND</td> <td>ON</td> <td>OFF</td> <td>OFF</td> <td>LOW</td> </tr> <tr> <td>HIZ</td> <td>OFF</td> <td>ON</td> <td>ON</td> <td>LOW</td> </tr> <tr> <td>Vcc</td> <td>OFF</td> <td>ON</td> <td>ON</td> <td>High</td> </tr> </tbody> </table> | SEL | LDC | | | RFRP Detct Frequency | | SW1 | SW2 | SW3 | | GND | ON | OFF | OFF | LOW | HIZ | OFF | ON | ON | LOW | Vcc | OFF | ON | ON | High | 3 signals input. (Vcc, HIZ, GND) |
| SEL | LDC | | | RFRP Detct Frequency | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SW1 | SW2 | SW3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GND | ON | OFF | OFF | LOW | | | | | | | | | | | | | | | | | | | | | | | | | |
| HIZ | OFF | ON | ON | LOW | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vcc | OFF | ON | ON | High | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | TEN | I | Tracking error balance adjustment signal input terminal. Controlled by 3-PWM signal. (PWM carrier = 88.2 kHz) | 3 signals input. (2VRO, VRO, GND) | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 2VRO | O | Reference voltage (2vro) output terminal. 2VRO=4.2V when Vcc=5V | - | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | TEN | I | TE amp negative input terminal. | Connected to TEO through feedback resistor. | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | TEO | O | TE error signal output terminal. | - | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | SBAD | O | Sub beam adder signal output terminal. | - | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | FEO | O | Focus error signal output terminal. | - | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | FEN | I | FE amp negative input terminal. | Connected to FEO through feedback resistor. | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | SEB | I | RFRP output circuit switching terminal. <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>SEB</th> <th>Bottom Detect</th> <th>Peak Detect</th> </tr> </thead> <tbody> <tr> <td>GND</td> <td>ON</td> <td>ON</td> </tr> <tr> <td>HIZ</td> <td>ON</td> <td>ON</td> </tr> <tr> <td>Vcc</td> <td>OFF</td> <td>ON</td> </tr> </tbody> </table> | SEB | Bottom Detect | Peak Detect | GND | ON | ON | HIZ | ON | ON | Vcc | OFF | ON | Low(GND) is for normal use. | | | | | | | | | | | | | |
| SEB | Bottom Detect | Peak Detect | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GND | ON | ON | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HIZ | ON | ON | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vcc | OFF | ON | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | VRO | O | Reference signal(VRO) output terminal. VRO = 2.1V when Vcc=5V | - | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | RFRP | O | Track count signal output terminal. | - | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | BTC | I | Time constant adjustment terminal for bottom detection. | Adjusted by capacitance. | | | | | | | | | | | | | | | | | | | | | | | | | |

| PIN No. | NAME | I/O | DESCRIPTION | REMARK | | | | | | | | |
|---------|--------|-----|---|---|------|-----|-------|-----|--------|-----|--------|-------------------------------|
| 22 | RFRP | O | RFRP signal center level output terminal. | - | | | | | | | | |
| 23 | PKC | I | Time constant adjustment terminal for peak detection. | Adjusted by capacitance. | | | | | | | | |
| 24 | RFRPIN | I | Input terminal for track count signal adjustment amp. | - | | | | | | | | |
| 25 | RFGO | O | Output terminal for RF signal amplitude adjustment amp. | - | | | | | | | | |
| 26 | GVSU | I | Amp(AGC, FE, TE) gain switching terminal. <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>GVSU</th> <th>Mode</th> </tr> </thead> <tbody> <tr> <td>GND</td> <td>CD-RW</td> </tr> <tr> <td>HIZ</td> <td>Normal</td> </tr> <tr> <td>Vcc</td> <td>Normal</td> </tr> </tbody> </table> | GVSU | Mode | GND | CD-RW | HIZ | Normal | Vcc | Normal | Low(GND) is for 5 times gain. |
| GVSU | Mode | | | | | | | | | | | |
| GND | CD-RW | | | | | | | | | | | |
| HIZ | Normal | | | | | | | | | | | |
| Vcc | Normal | | | | | | | | | | | |
| 27 | AGCIN | I | Input terminal for RF signal amplitude adjustment amp. | Connected to RFO through capacitance. | | | | | | | | |
| 28 | RFO | O | Output terminal RF signal amp. | - | | | | | | | | |
| 29 | GND | - | Ground terminal. | - | | | | | | | | |
| 30 | RFN2 | I | Input terminal for RF signal amp. | Connected to pin-diode output A+B+C+D (through resistor). | | | | | | | | |

IC63 : TA2092N (POWER DRIVER)

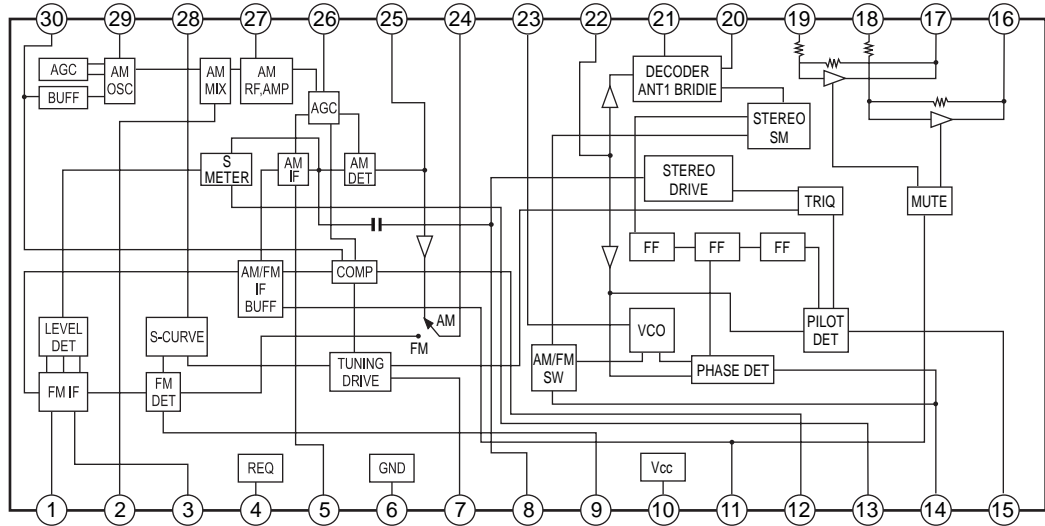
BLOCK DIAGRAM



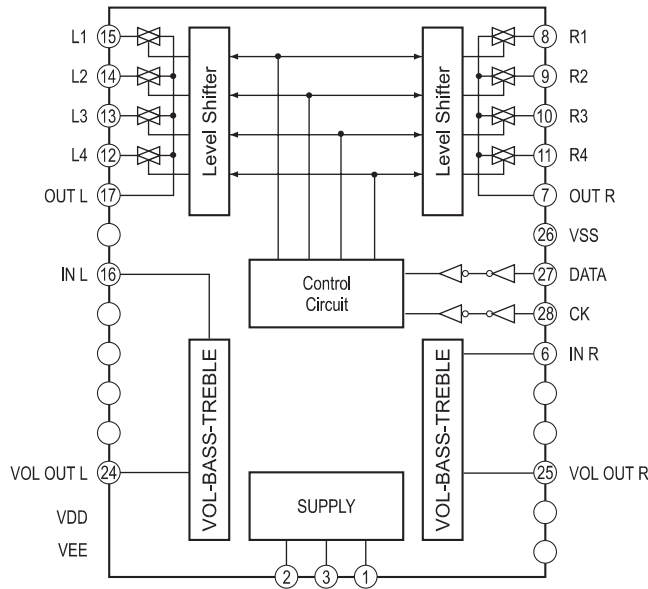
PIN FUNCTION

| PIN No. | NAME | DESCRIPTION |
|---------|------------------|---|
| 1 | PW GND | Power GND Connected to substrate. ①, ②, ⑬, ⑲ pin are connected inside. |
| 2 | OUT (-) 1 | Inverted output for CH1 |
| 3 | PVCC1 | Supply terminal of output stage for CH1 Supply terminal of output stage are not connected to other channel terminal. |
| 4 | OUT (+) 1 | Non-inverted output for CH1 |
| 5 | V _{IN1} | Input for CH1. Not biased inside |
| 6 | V _{RI} | Input reference voltage Under condition of V _{RI} ≤ 1.8V, internal bias circuit is shut off. No signal input condition : V _{RI} = V _{IN} |
| 7 | V _{CI} | Output reference voltage. V _{OUT} = V _{CI} = (V _{CC} - V _F)/2 |
| 8 | V _{IN2} | Input for CH2 |
| 9 | OUT (+) 2 | Non-inverted output for CH2 |
| 10 | PVCC2 | Supply terminal of output stage for CH2 |
| 11 | OUT (-) 2 | Inverted output for CH2 |
| 12 | PW GND | Power GND |
| 13 | PW GND | Power GND |
| 14 | OUT (-) 3 | Inverted output for CH3 |
| 15 | PVCC3 | Supply terminal of output stage for CH3 |
| 16 | OUT (+) 3 | Non-inverted output for CH3 |
| 17 | V _{IN3} | Input for CH3 |
| 18 | S GND | Supply terminal of small signal GND |
| 19 | S VCC | Small signal GND |
| 20 | V _{IN4} | Input for CH4 |
| 21 | OUT (+) 4 | Non-inverted output for CH4 |
| 22 | PVCC4 | Supply terminal of output stage for CH4 |
| 23 | OUT (-) 4 | Inverted output for CH4 |
| 24 | PW GND | Power GND |

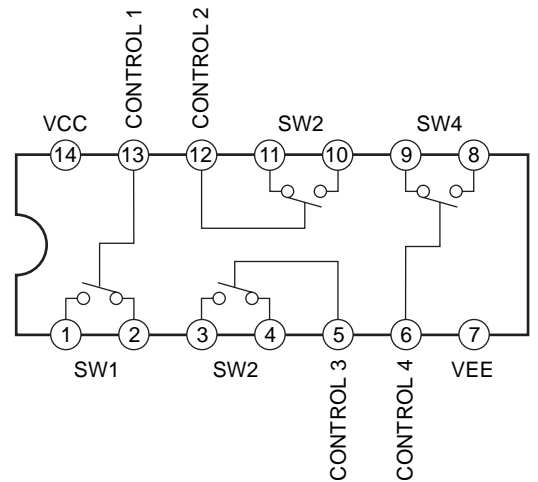
IC11 : LA1836M (TUNER)



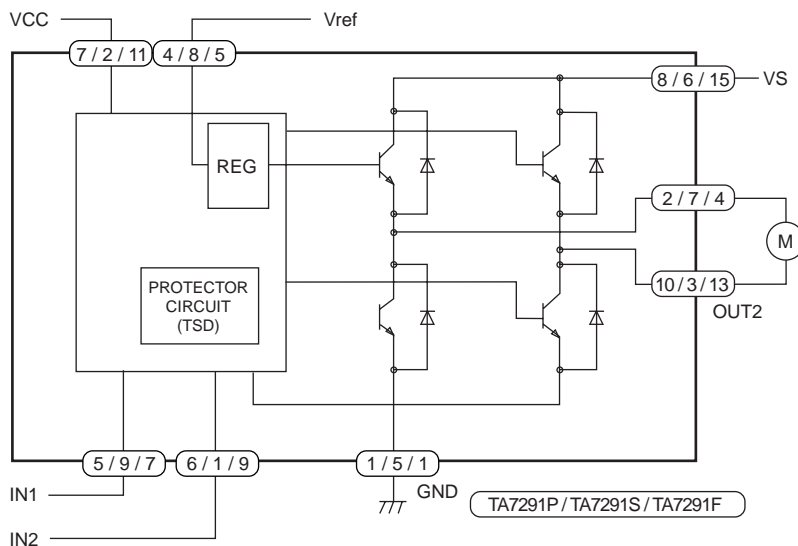
IC21 : TDA7318D



IC23 : LC4966 (INPUT)



IC64/IC65 : TA7291S (BRIDGE DRIVER) BLOCK DIAGRAM



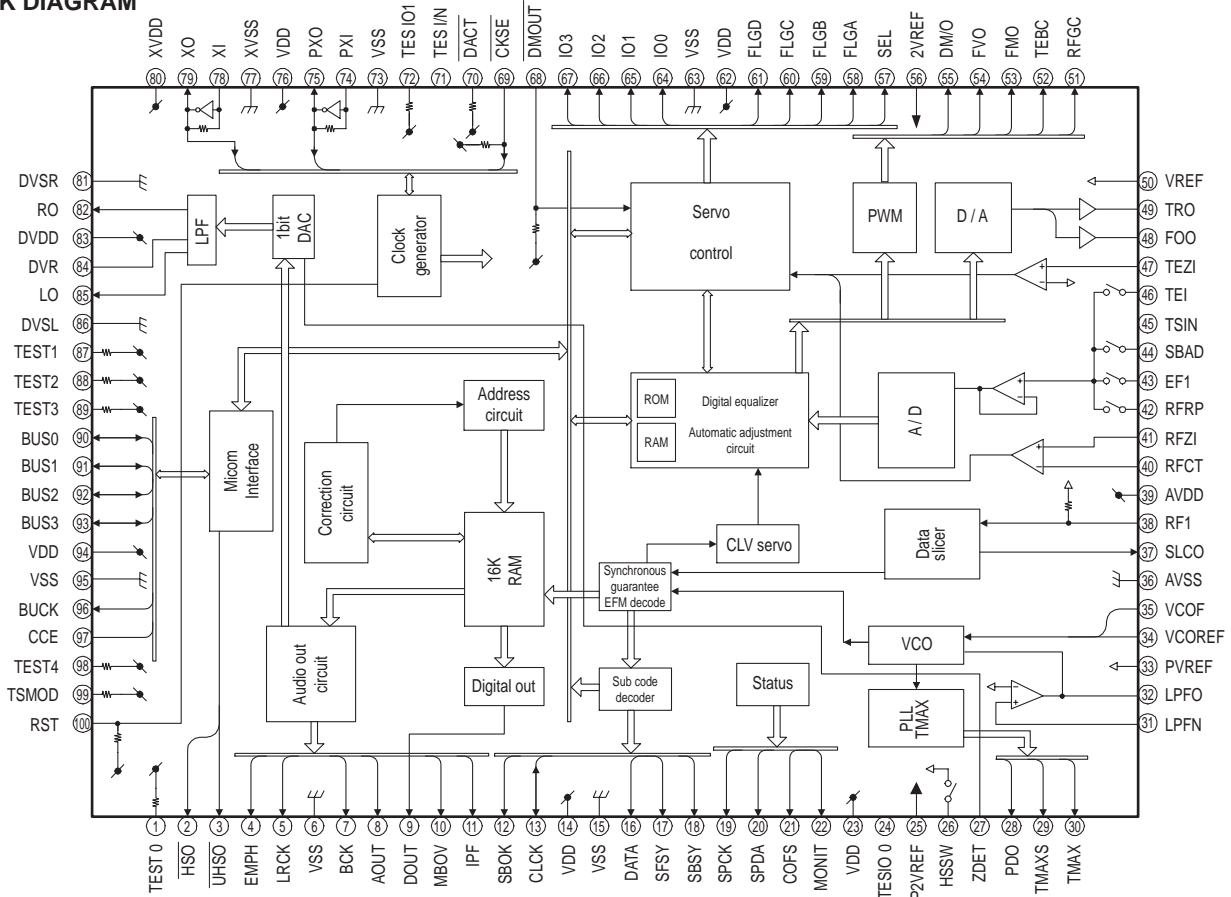
PIN FUNCTION

| PIN No. | | | SYMBOL | FUNCTIONAL DESCRIPTION |
|---------|---|----|--------|---|
| P | S | F | | |
| 7 | 2 | 11 | Vcc | Supply voltage terminal for Logic |
| 8 | 6 | 15 | Vs | Supply voltage terminal for motor drive |
| 4 | 8 | 5 | Vref | Supply voltage terminal for control |
| 1 | 5 | 1 | GND | GND terminal |
| 5 | 9 | 7 | IN1 | Input terminal |
| 6 | 1 | 9 | IN2 | Input terminal |
| 2 | 7 | 4 | OUT1 | Output terminal |
| 10 | 3 | 13 | OUT2 | Output terminal |

- P Type: PIN ① ② ③ : NC
- S Type: PIN 4: NC
- F Type: PIN ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ : NC
- For F Type, We recommend FIN to be connected to the GND.

IC62 : TC9462F (DIGITAL SIGNAL PROCESSOR)

BLOCK DIAGRAM



PIN FUNCTION

| PIN No. | NAME | I/O | FUNCTIONAL DESCRIPTION | REMARKS | | | | | | | | | | | | | | | |
|--------------------------|-------------|----------------|--|-------------------------------------|-------------|-------------------------|-----------|--------------------------|--------|------------------------|-------|-----------------------------------|---|---|---------|---|---|---|---|
| 1 | TEST0 | - | Test mode terminal. Normally, keep at open. | With pull-up resistor. | | | | | | | | | | | | | | | |
| 2 | HSO | O | Playback speed mode flag output terminal. <table border="1"> <tr> <th>UHSO</th> <th>HSO</th> <th>PLAYBACK SPEED</th> </tr> <tr> <td>H</td> <td>H</td> <td>Normal</td> </tr> <tr> <td>H</td> <td>L</td> <td>2 times</td> </tr> <tr> <td>L</td> <td>H</td> <td>4 times</td> </tr> <tr> <td>L</td> <td>L</td> <td>-</td> </tr> </table> | UHSO | HSO | PLAYBACK SPEED | H | H | Normal | H | L | 2 times | L | H | 4 times | L | L | - | - |
| UHSO | HSO | PLAYBACK SPEED | | | | | | | | | | | | | | | | | |
| H | H | Normal | | | | | | | | | | | | | | | | | |
| H | L | 2 times | | | | | | | | | | | | | | | | | |
| L | H | 4 times | | | | | | | | | | | | | | | | | |
| L | L | - | | | | | | | | | | | | | | | | | |
| 3 | UHSO | O | | | | | | | | | | | | | | | | | |
| 4 | EMPH | O | Subcode Q data emphasis flag output terminal. Emphasis ON at "H" level and OFF at "L" level. The output polarity can invert by command. | - | | | | | | | | | | | | | | | |
| 5 | LRCK | O | Channel clock output terminal. (44.1 kHz) L-ch at "L" level and R-ch at "H" level. The output polarity can invert by command. | - | | | | | | | | | | | | | | | |
| 6 | VSS | - | Digital GND terminal. | - | | | | | | | | | | | | | | | |
| 7 | BCK | O | Bit clock output terminal. (1.4112 MHz) | - | | | | | | | | | | | | | | | |
| 8 | AOUT | O | Audio data output terminal. | - | | | | | | | | | | | | | | | |
| 9 | DOUT | O | Digital data output terminal. | - | | | | | | | | | | | | | | | |
| 10 | MBOV | O | Buffer memory over signal output terminal. Over at "H" level. | - | | | | | | | | | | | | | | | |
| 11 | IPF | O | Correction flag output terminal. At "H" level, AOUT output is made to correction impossibility by C2 correction processing. | - | | | | | | | | | | | | | | | |
| 12 | SBOK | O | Subcode Q data CRCC check adjusting result output terminal. The adjusting result is OK at "H" level. | - | | | | | | | | | | | | | | | |
| 13 | CLCK | I/O | Subcode P-W data readout clock input/output terminal. This terminal can select by command bit. | - | | | | | | | | | | | | | | | |
| 14 | VDD | - | Digital power supply voltage terminal. | - | | | | | | | | | | | | | | | |
| 15 | VSS | - | Digital GND terminal. | - | | | | | | | | | | | | | | | |
| 16 | DATA | O | Subcode P-W data output terminal. | - | | | | | | | | | | | | | | | |
| 17 | SFSY | O | Playback frame sync signal output terminal. | - | | | | | | | | | | | | | | | |
| 18 | SBSY | O | Subcode block sync signal output terminal. | - | | | | | | | | | | | | | | | |
| 19 | SPCK | O | Processor status signal readout clock output terminal. | - | | | | | | | | | | | | | | | |
| 20 | SPDA | O | Processor status signal output terminal. | - | | | | | | | | | | | | | | | |
| 21 | COFS | O | Correction frame clock output terminal. (7.35 kHz) | - | | | | | | | | | | | | | | | |
| 22 | MONIT | O | Internal signal (DSP internal flag and PLL clock) output terminal. Selected by command. | - | | | | | | | | | | | | | | | |
| 23 | VDD | - | Digital power supply voltage terminal. | - | | | | | | | | | | | | | | | |
| 24 | TESIO0 | I | Test input/output terminal. Normally, keep at "L" level. | - | | | | | | | | | | | | | | | |
| 25 | P2VREF | - | PLL double reference voltage supply terminal. | - | | | | | | | | | | | | | | | |
| 26 | HSSW | O | 2/4 times speed at "VREF" voltage. | 2-state output (PV REF, HIZ) | | | | | | | | | | | | | | | |
| 27 | ZDET | O | 1 bit DA converter zero detect flag output terminal. | - | | | | | | | | | | | | | | | |
| 28 | PDO | O | Phase difference signal output terminal of EFM signal and PLCK signal. | 3-state output (P2VREF, PVREF, VSS) | | | | | | | | | | | | | | | |
| 29 | TMAXS | O | TMAX detection result output terminal. Selected by command bit (TMPS). | - | | | | | | | | | | | | | | | |
| 30 | TMAX | O | TMAX detection result output terminal. Selected by command bit (TMPS). <table border="1"> <tr> <th>DIFFERENCE RESULT</th> <th>TMAX OUTPUT</th> </tr> <tr> <td>Longer than fixed freq.</td> <td>"P2V REF"</td> </tr> <tr> <td>Shorter than fixed freq.</td> <td>"V SS"</td> </tr> <tr> <td>Within the fixed freq.</td> <td>"HIZ"</td> </tr> </table> | DIFFERENCE RESULT | TMAX OUTPUT | Longer than fixed freq. | "P2V REF" | Shorter than fixed freq. | "V SS" | Within the fixed freq. | "HIZ" | 3-state output (P2VREF, HIZ, VSS) | | | | | | | |
| DIFFERENCE RESULT | TMAX OUTPUT | | | | | | | | | | | | | | | | | | |
| Longer than fixed freq. | "P2V REF" | | | | | | | | | | | | | | | | | | |
| Shorter than fixed freq. | "V SS" | | | | | | | | | | | | | | | | | | |
| Within the fixed freq. | "HIZ" | | | | | | | | | | | | | | | | | | |

| PIN No. | NAME | I/O | FUNCTIONAL DESCRIPTION | REMARKS |
|---------|--------|-----|---|---|
| 31 | LPFN | I | LPF amplifier inverting input terminal for PLL. | Analog input. |
| 32 | LPFO | O | LPF amplifier output terminal for PLL. | Analog output. |
| 33 | PVREF | - | PLL reference voltage supply terminal. | - |
| 34 | VCOREF | I | VCO center frequency reference level terminal. Normally, keep at "PV REF" level. | - |
| 35 | VCOF | O | VCO filter terminal. | Analog output. |
| 36 | AVSS | - | Analog GND terminal. | - |
| 37 | SLCO | O | Data slice level output terminal. | Analog output. |
| 38 | RFI | I | RF signal input terminal. | Analog input (Zin : selected by command) |
| 39 | AVDD | - | Analog power supply voltage terminal. | - |
| 40 | RFCT | I | RF signal center level input terminal. | Analog input (Zin : 50kΩ) |
| 41 | RFZI | I | RF signal zero cross input terminal. | Analog input. |
| 42 | RFRP | I | RF ripple signal input terminal. | Analog input. |
| 43 | FEI | I | Focus error signal input terminal. | Analog input. |
| 44 | SBAD | I | Sub-beam adder signal input terminal. | Analog input. |
| 45 | TSIN | I | Test input terminal. Normally, keep at "VREF" level. | Analog input. |
| 46 | TEI | I | Tracking error signal input terminal. Track in at tracking servo on. | Analog input. |
| 47 | TEZI | I | Tracking error zero cross input terminal. | Analog input (Zin : 10kΩ) |
| 48 | FOO | O | Focus servo equalizer output terminal. | Analog output (2V REF ~AVSS) |
| 49 | TRO | O | Tracking servo equalizer output terminal. | - |
| 50 | VREF | - | Analog reference voltage supply terminal. | - |
| 51 | RFGC | O | RF amplitude adjustment control signal output terminal. | - |
| 52 | TEBC | O | Tracking balance control signal output terminal. | 3-state PWM signal output. (2VREF, VREF, VSS) |
| 53 | TEBC | O | Feed equalizer output terminal. | (PWM carrier = 88.2 kHz) |
| 54 | TEBC | O | Speed error signal or feed search equalizer output terminal. | - |
| 55 | DMO | O | Disk equalizer output terminal. (PWM carrier = 88.2 kHz for DSP. Synchronize to PXO). | 3-state PWM signal output. (2VREF, VREF, VSS) |
| 56 | 2VREF | - | Analog double reference voltage supply terminal. | - |
| 57 | SEL | O | APC circuit ON/OFF indication signal output terminal. At the laser on time, UHF = L at "HIZ" level and UHF = H at "H" level. | - |
| 58 | FLGA | O | External flag output terminal for internal signal. Can select signal from TEZC, FOON, FOK and RFZC by command. | - |
| 59 | FLGB | O | External flag output terminal for internal signal. Can select signal from DECT, FOON, FMON and RFZC by command. | - |
| 60 | FLGC | O | External flag output terminal for internal signal. Can select signal from TRON, TRSR, FOK and SRCH by command. | - |
| 61 | FLGD | O | External flag output terminal for internal signal. Can select signal from TRON, DMON, HYS and SHC by command. | - |
| 62 | VDD | - | Digital power supply voltage terminal. | - |
| 63 | VSS | - | Digital GND terminal. | - |
| 64 | IO0 | - | General I/O terminal. Can change over input port or output port by command. At the input mode time can readout a state of terminal (HL) by read command. At the output mode time can control a state of terminal (HL/HIZ) by command. | - |
| 65 | IO1 | I/O | | - |
| 66 | IO2 | I/O | | - |
| 67 | IO3 | I/O | | - |

| PIN No. | NAME | I/O | FUNCTIONAL DESCRIPTION | REMARKS |
|---------|--------|-----|--|------------------------|
| 68 | DMOUT | I | This terminal controls IO0-IO3 terminal. At "L" level time, IO0, 1 out feed equalizer signal of 2-state PWM. IO2, 3 out disk equalizer signal of 2-state PWM. | With pull-up resistor. |
| 69 | CKSE | I | Normally, keep at open. | With pull-up resistor. |
| 70 | DACT | I | DAC test mode terminal. Normally, keep at open. | With pull-up resistor. |
| 71 | TESIN | I | Test input terminal. Normally, keep at "L" level. | Analog input. |
| 72 | TESIO1 | I | Test input/output terminal. Normally, keep at "L" level. | Analog input. |
| 73 | Vss | - | Digital GND terminal. | - |
| 74 | PXI | I | Crystal oscillator connecting input terminal for DSP. Normally, keep at "L" level. | - |
| 75 | PXO | O | Crystal oscillator connecting output terminal for DSP. | - |
| 76 | Vbd | - | Digital power supply voltage terminal. | - |
| 77 | XVss | - | Oscillator GND terminal for system clock. | - |
| 78 | XI | I | Crystal oscillator connecting input terminal for system clock. | - |
| 79 | XO | O | Crystal oscillator connecting output terminal for system clock. | - |
| 80 | XVdd | - | Oscillator power supply voltage terminal for system clock. | - |
| 81 | DVsr | - | Analog GND terminal for DA converter. (R-ch) | - |
| 82 | RO | O | R channel data forward output terminal. | - |
| 83 | DVdd | - | Analog supply voltage terminal for DA converter. | - |
| 84 | DVR | - | Reference voltage terminal for DA converter. | - |
| 85 | LO | O | L channel data forward output terminal. | - |
| 86 | DVsl | - | Analog GND terminal for DA converter. (L-ch) | - |
| 87 | TEST1 | I | Test mode terminal. Normal, keep at open. | With pull-up resistor. |
| 88 | TEST2 | I | Test mode terminal. Normal, keep at open. | With pull-up resistor. |
| 89 | TEST3 | I | Test mode terminal. Normal, keep at open. | With pull-up resistor. |
| 90 | BUS0 | I/O | Microm interface data input/output terminal. | Schmit input. |
| 91 | BUS1 | I/O | | With pull-up resistor. |
| 92 | BUS2 | I/O | | |
| 93 | BUS3 | I/O | | |
| 94 | Vbd | - | Digital Ppower supply voltage terminal. | - |
| 95 | Vss | - | Digital GND terminal. | - |
| 96 | BUCK | I | Micom interface clock input terminal. | Schmit input. |
| 97 | CCE | I | Command and data sending/receiving chip enable signal input terminal. The bus line becomes active at "L" level. | Schmit input. |
| 98 | TEST4 | I | Test mode terminal. Normal, keep at open. | With pull-up resistor. |
| 99 | TSMOD | I | Local test mode selection terminal. | With pull-up resistor. |
| 100 | RST | I | Reset signal input terminal. Reset at "L" level. | With pull-up resistor. |

6. ADJUSTMENT PROCEDURE

ALIGNMENT INSTRUCTIONS

EQUIPMENT NEEDED:

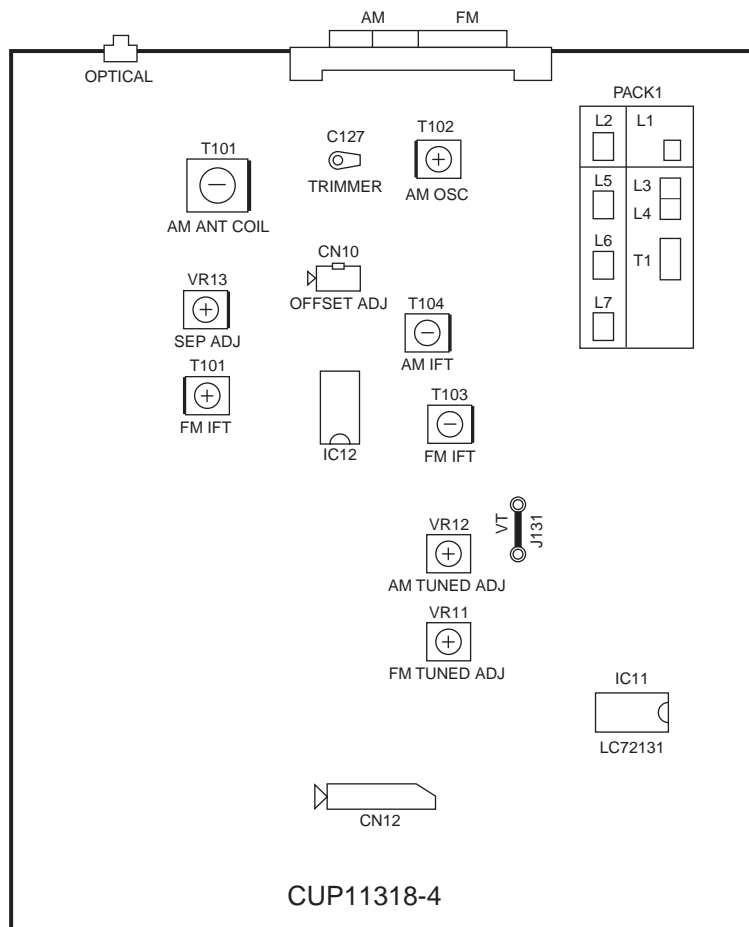
AM Signal Generator
 FM Signal Generator
 Oscilloscope
 VTVM(AC, DC)
 Test loop antenna (AW Adjustment)
 Dummy antenna (FM Adjustment)
 Stereo signal modulator
 Frequency counter
 Distortion analyser

IMPORTANT

1. Check power-source voltage.
2. Set the function switch to band aligned.
3. Keep the signal input as low as possible to adjust accurately.
4. Modulation and modulation frequency.

| Band \ Item | Modulation | Modulation frequency |
|-------------|------------------|----------------------|
| AM | 30% | 400Hz |
| FM | 100%(75KHz Dev.) | 400Hz |

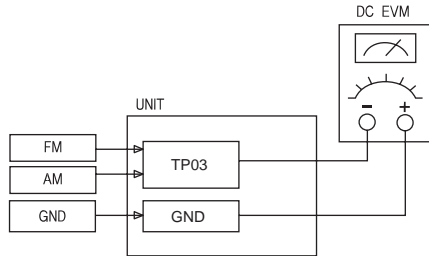
ADJUSTMENT POINT



MEASUREMENTS AND ADJUSTMENTS

1. FM, AM TRACKING VOLTAGE ADJUSTMENTS

(FM, AM) DC VOLTMETER..... CONNECT TO TEST POINT TP1 and GND

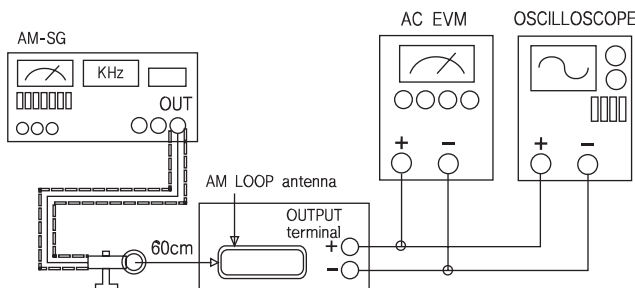


| NO. | Band | Frequency | Adjust for | Adjustment |
|-----|------|-----------|------------|------------|
| 1 | FM | 87.50MHz | 1.5V | L7 |
| 2 | AM | 530KHz | 1V | T102 |

2. AM RF ADJUSTMENT

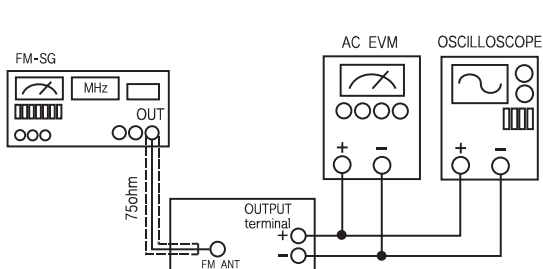
Signal Generator Connects to the AM ANT. Coil through the loop antenna.
Adjust for the indication of VTVM of the wave form of scope to be maximum.

| BAND | Step | Frequency | Adjust for | Adjustment |
|------|------|-------------------------------------|---------------------|------------|
| AM | 1 | 610KHz | Maximum sensitivity | T101, L104 |
| | 2 | 1510KHz | Maximum sensitivity | C127 |
| | 3 | Repeat steps 1 and 2 several times. | | |



3. FM-RF ADJUSTMENT

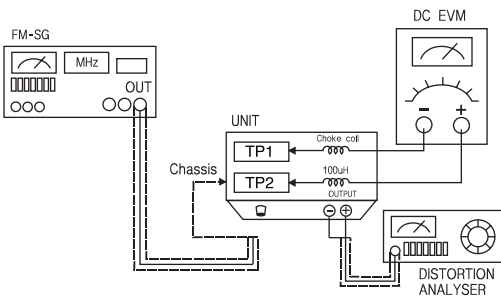
Signal Generator Connect to FM ANT JACK (FM IN) through the dummy.



| NO. | Frequency | Adjust for | Adjustment |
|-----|------------------------------|---------------------|------------|
| 1 | 90.10MHz | Maximum Sensitivity | L2, L5, L6 |
| 2 | Repeat step 1 several times. | | |

4. FM MONO DISTORTION ADJUSTMENT

DC VOLT METER.....Connect to TP1(-), TP2(+) Through the choke coll (100 μH)
 Signal GeneratorConnect to FM ANT Jack (FM IN) through the dummy.
 Distortion MeterConnect to the output.



| NO. | Frequency | Adjust for | Adjustment |
|-----|-------------------------------------|-----------------|------------|
| 1 | 100.10MHz | DC Voltmeter 0V | T103 |
| 2 | 100.10MHz | Minimum T.H.D | T103 |
| 3 | Repeat steps 1 and 2 Several times. | | |

5. FM/AM AUTO STOP LEVEL ADJUSTMENT

FM SIGNAL GENERATORConnect to FM ANT Jack (FM IN) through the dummy
 AM SIGNAL GENERATORConnect to AM ANT, Coil through the Loop antenna

| BAND | STEP | SIGNAL GENERATOR | Adjust for | Adjustment |
|------|------|------------------|--|------------|
| FM | 1 | 100.1MHz 30dB | <input type="checkbox"/> TUNED Display OFF | VR12 |
| | 2 | 100.1MHz 30dB | <input type="checkbox"/> TUNED Display ON | VR12 |
| AM | 1 | 1000KHz 80dB | <input type="checkbox"/> TUNED Display OFF | VR11 |
| | 2 | 1000KHz 80dB | <input type="checkbox"/> TUNED Display ON | VR11 |

6. THE WAY TO RETURN TO THE INITIAL SETTING

Push the key of DISC SKIP on front panel around 5 sec, and then return to the initial.

7. REMOVE DISC HOW-TO

To remove disc, follow the steps below to remove top cover of MECHANISM ASS'Y

(refer to EXPLODED VIEW AND PART LIST FOR MECHANISM ASS'Y. page 26).

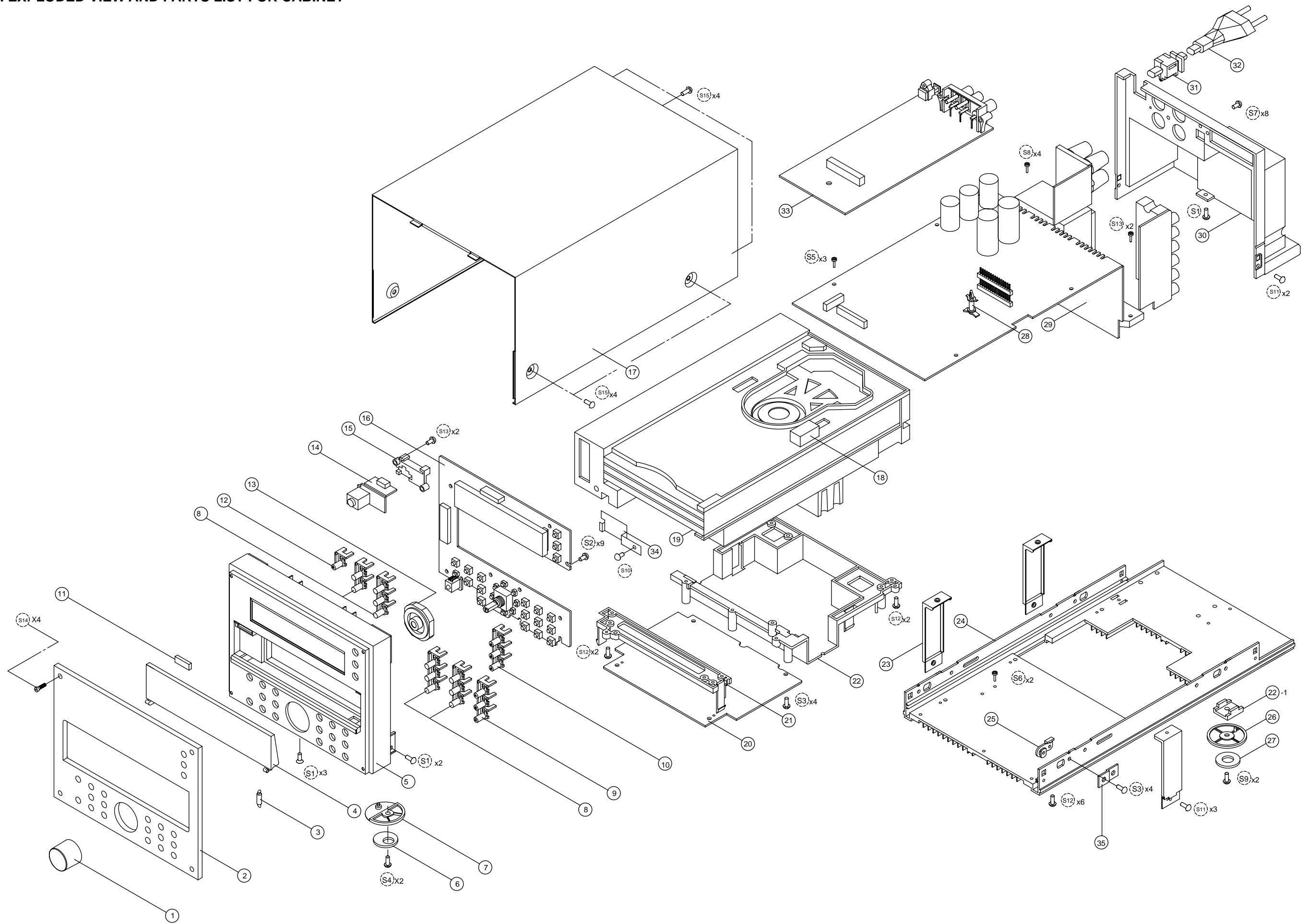
- 1) Remove top cover. Then, remove Main PCB and Power PCB from MECHANISM ASS'Y.
- 2) Remove 6pcs screws (76) from Holder(Top) (7).
- 3) Pull-up Holder (Top) (7).
- 4) Remove FFC (84) from Holder (Load) Assy (120).
- 5) Remove Holder (Top) (7).
- 6) Remove BIND TAPPING SC 2.6 x 8(BL) (77) from HOLDER (SHAFT) ASSY (116).
- 7) Pull-up TRAY (6), and remove HOLDER (SHAFT) ASSY (116).
- 8) Pull SHAFT(TRAY) (71) about 1cm, and remove TRAY (6) with lifting.
- 9) Remove the Disc.

緊急時のDISCの取り出し方

DISCが取り出せなくなった場合、次の手順でメカニズム・アッシー上部のカバーを外して取り出して下さい(メカニズム・アッシー分解図：26 ページ参照)。

- 1) トップ・カバーを外し、メカニズム・アッシーを囲っているメイン基板+電源基板を取り外す。
- 2) HOLDER(TOP) (7)を固定している6本のビス(76)を外す。
- 3) HOLDER(TOP) (7)を少し持ち上げる。
- 4) HOLDER (LOAD) ASSY (120) に差し込まれているFFC (84)を外す。
- 5) HOLDER (TOP) (7)を取り外す。
- 6) HOLDER (SHAFT) ASSY (116) を固定しているBIND TAPPING SC 2.6 x 8(BL) (77)を外す。
- 7) TRAY (6)を持ち上げながら、HOLDER (SHAFT) ASSY (116)を手前に引き、外す。
- 8) SHAFT(TRAY) (71)を手前に1cm程引き抜き、TRAY (6)を持ち上げながらメカから取り出す。
- 9) DISCを取り出す。

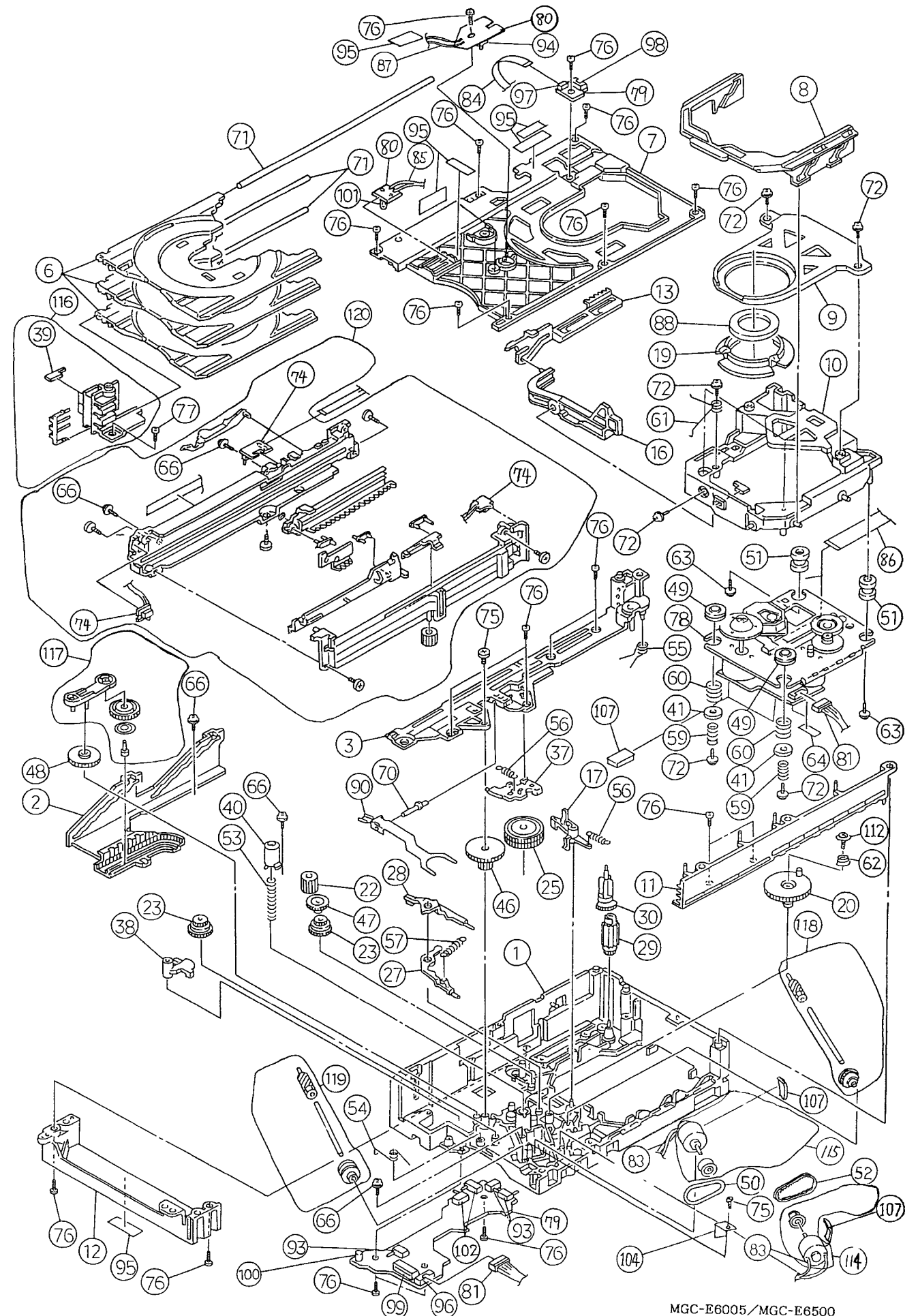
8. EXPLODED VIEW AND PARTS LIST FOR CABINET



PARTS LIST FOR CABINET

| POS. NO | VERS. COLOR | DESCRIPTION | PART NO. (MJI) | POS. NO | VERS. COLOR | DESCRIPTION | PART NO. (MJI) |
|---------|-------------|---|----------------|---------|-------------|--|----------------|
| 1 | | KBN1A138M7K102 KNOB, TRACK | 307W154010 | | | PACKING | |
| 2 | | KGU1A247Z WINDOW, FRONT | 307W063010 | | | BARTCR-710 REMOTE CONTROLLER (RC710CR) | ZK307W0010 |
| 3 | | KUS1A122 SPRING, DOOR | 307W115010 | | | | |
| 4 | | KGR1A216M7K102 ORNAMENT, DOOR | 307W162010 | F | | KQX1A651Z USER GUIDE (F) CR-710 JAPAN | 307W851110 |
| 5 | | KGW1A301MLK102 PANEL, SUB | nsp | | | | |
| 6 | | KHG1A179 CUSHION, FOOT | nsp | C | | KQF1A436Z USER GUIDE (C) CR-710 KOREA | nsp |
| 7 | | KKL1A062M7 FOOT (A) | 307W057010 | | | | |
| 8 | | KBT1A747M7K102 KNOB, FUNCTION | 308W270010 | | | | |
| 9 | | KBT1A748M7K102 KNOB, PLAY | 308W270020 | | | | |
| 10 | | KBT2A748M7K102 KNOB, OPEN | 308W270030 | | | | |
| 11 | | KHG1A178 CUSHION, RUBBER | nsp | | | NOT STANDARD SPARE PARTS | |
| 12 | | CR710/F1WSET KNOB, POWER | 308W270050 | | | KPG1A623Z BOX, OUT CARTON CR-710 | nsp |
| 13 | | KGL2A189 INDICATOR, DISPLAY | nsp | | | KPP1A087Z BAG, POLY (SET) | nsp |
| 15 | | KMH1A121 HOLDER, PCB | nsp | | | KPS1A506 PAD, SNOW (L) CR-710 | nsp |
| 16 | | KOP11404B FRONT PCB ASS'Y CR-710 | nsp | | | KPS1A507 PAD, SNOW (R) CR-710 | nsp |
| 17 | | KKC1B107S35 CABINET, TOP | nsp | | | KABAAM1.5V BATTERY | nsp |
| 18 | | KHG1A104 SUPPORT, CUSHION A4-94-2139 | nsp | | | KLR1T201 ANT ADAPTOR, 75-300 (NTSC) UMT-CO-007 | nsp |
| 19 | | KJDCR710 MECHANISM ASS'Y | 307W304500 | | | KSA267 ANT, FM T 2.2M | nsp |
| 20 | | KOP11381B CD PCB ASS'Y | nsp | | | KSA3A012Z AM LOOP ANTENNA ASS'Y LUG WIRE | nsp |
| 21 | | BMH1A104 SUPPORT, MECHA (A) | nsp | | | | |
| 22 | | BMH1A105 SUPPORT, MECHA (B) | nsp | | | | |
| 23 | | KMD1A405 BRACKET, PCB | nsp | | | | |
| 24 | | BUA1A180 CHASSIS, BOTTOM | nsp | | | | |
| 25 | | BMH1A088 LOCKER, TOP | nsp | | | | |
| 26 | | KKL2A062M7 FOOT (B) | 307W057020 | | | | |
| 27 | | KHG1A165 CUSHION, FOOT | nsp | | | | |
| 28 | | KRE1A018 SUPPORT, PCB | nsp | | | | |
| 29 | | KOP11318B MAIN PCB ASS'Y MC-D90TCCC | nsp | | | | |
| 30 | | KKD1A033ML CABINET, REAR | nsp | | | | |
| 31 | | KHR1A028 BUSHING, AC CORD | nsp | | | | |
| ▲32 | F | BJA2J049Z CORD, POWER (F) JAPAN (100V 7A) | *YC000520R | | | | |
| ▲32 | C | KJA2D046Z CORD, POWER (C) KOREA | nsp | | | | |
| 34 | | KGX1A285 COVER, MECHA | nsp | | | | |
| 35 | | BMC1A166 PLATE, SHIELD | nsp | | | | |
| S1 | | KTS3+8J SCREW | nsp | | | | |
| S2 | | KTB3+10G SCREW | nsp | | | | |
| S3 | | KTB3+8G SCREW | nsp | | | | |
| S5 | | KTW3+6J SCREW | nsp | | | | |
| S6 | | KTB3+8J SCREW | nsp | | | | |
| S7 | | KTB3+10GFZ SCREW | nsp | | | | |
| S8 | | KTB4+8F SCREW | nsp | | | | |
| S9 | | KHD2A032 SCREW 3X10 | nsp | | | | |
| S10 | | KTB3+8GFZ SCREW | nsp | | | | |
| S11 | | KTB3+6J SCREW | nsp | | | | |
| S12 | | KTB3+12G SCREW | nsp | | | | |
| S13 | | KTB3+14J SCREW | nsp | | | | |
| S14 | | KHD1A028FC SCREW, SPECIAL | 308W010010 | | | | |
| S15 | | KTB3+10GFC SCREW | nsp | | | | |

9. EXPLODED VIEW AND PARTS LIST FOR MECHANISM ASS'Y



MGC-E6005/MGC-E6500

NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

PARTS LIST FOR MECHANISM ASS'Y

| POS. NO | VERS. COLOR | DESCRIPTION | PART NO. (MJI) | POS. NO | VERS. COLOR | DESCRIPTION | PART NO. (MJI) |
|---------|-------------|--------------------------------------|----------------|---------|-------------|--------------------------------------|----------------|
| 1 | | E6A 3011 CHASSIS (MAIN) | nsp | 96 | | 99054172 CONNECTOR S6B-PH | nsp |
| 2 | | E6B 3032 SLIDER (LIFT-L) | nsp | 97 | | 99054177 CONNECTOR 04FM-1.0ST | nsp |
| 3 | | E6B 3038 SUB CHASSIS (L) | nsp | 98 | | 99054179 CONNECTOR S4B-PH-K-S | nsp |
| 6 | | E6B 3043 TRAY | 307W163010 | 99 | | 99054180 CONNECTOR 16FE-ST | nsp |
| 7 | | E6A 3033 HOLDER (TOP) | nsp | 100 | | 99518074 PHOTO TRANSISTOR RPT-38PT3F | nsp |
| 8 | | E6B 3031 SLIDER (TU) | nsp | | | | |
| 9 | | E6C 3022 HOLDER (CLAMP) | nsp | | | | |
| 10 | | E6B 3021 FRAME (TU-A) | nsp | 101 | | 99518207 LED SIR-33ST3 | nsp |
| 11 | | E6B 3020 SUB CHASSIS (R) | nsp | 102 | | S40-1139 SWITCH SPPB62 | *SM000370R |
| 12 | | E6B 3044 BRACKET (M) | nsp | 104 | | E6D 1006 FLAT SPRING (WORM) | nsp |
| 13 | | E6C 3017 SLIDER (CLAMP) | nsp | 107 | | E1D 8007 CUSHION | nsp |
| 16 | | E6C 3034 LEVER (CLAMP) | nsp | 112 | | E6D 8014 SCREW (A3) | nsp |
| 17 | | E6C 3036 LEVER (SW4) | nsp | 114 | | E6D 9028 MOTOR ASSY | *MM001140R |
| 19 | | E6C 3041 CLAMPER | 307W005010 | 115 | | E6D 9027 MOTOR ASSY | *MM001150R |
| 20 | | E6C 3014 CAM (TU) | nsp | 116 | | E6D 3061 HOLDER (SHAFT) ASSY | nsp |
| 22 | | E6D 3002 GEAR (LOAD-B) | nsp | 117 | | E6D 3050 GEAR (FRICTION) ASSY | nsp |
| 23 | | E6D 3004 GEAR (HELICAL) | nsp | 118 | | E6D 3048 WORM (A) ASSY | nsp |
| 25 | | E6D 3007 GEAR (IDLER-B) | nsp | 119 | | E6D 3049 WORM (B) ASSY | nsp |
| 27 | | E6D 3012 LEVER (SW5) | nsp | 120 | | E6A 3060 HOLDER (LOAD) ASSY | nsp |
| 28 | | E6D 3013 LEVER (SW6) | nsp | | | | |
| 29 | | E6D 3015 GEAR (TU) | nsp | | | | |
| 30 | | E6D 3016 GEAR (ZENEBA) | nsp | | | | |
| 37 | | E6D 3035 SLIDER (SW-8) | nsp | | | | |
| 38 | | E6D 3037 LEVER (SW-7) | nsp | | | | |
| 39 | | E6D 3040 ARM (TRAY LOCK) | nsp | | | | |
| 40 | | E6D 3042 GUIDE (DISC) | nsp | | | | |
| 41 | | E6D 3045 COLLAR (SPRING) | nsp | | | | |
| 46 | | E6D 3010 GEAR (CENTER-B) | nsp | | | | |
| 47 | | E6D 3003 GEAR (IDLER) | nsp | | | | |
| 48 | | E6D 3009 GEAR (CENTER-A) | nsp | | | | |
| 49 | | C3D 4003 INSULATOR | 307W056010 | | | | |
| 50 | | E6D 4003 BELT (LIFT) | 307W264010 | | | | |
| 51 | | E6D 4004 INSULATOR | 307W056020 | | | | |
| 52 | | E6D 4005 BELT (TIMING) | 307W264020 | | | | |
| 53 | | E6D 6001 COMPRESSION SP (GUIDE) | nsp | | | | |
| 54 | | E6D 6002 TORSION SPRING (LOCK) | nsp | | | | |
| 55 | | E6D 6003 TORSION SPRING (ZENEBA) | nsp | | | | |
| 56 | | E6D 6004 EXTENSION SP (SWITCH) | nsp | | | | |
| 57 | | E6D 6005 EXTENSION SPRING (CAM) | nsp | | | | |
| 59 | | E6D 6007 COMPRESSION SP (TU-A) | nsp | | | | |
| 60 | | E6D 6008 COMPRESSION SP (TU-B) | nsp | | | | |
| 61 | | E6D 6009 TORSION SP (ASSIST-A) | nsp | | | | |
| 62 | | E6D 6012 COMPRESSION SP (CAM) | nsp | | | | |
| 63 | | E1D 8002 SCREW (B) | nsp | | | | |
| 64 | | E1D 8003 SOFT TAPE | nsp | | | | |
| 66 | | E1D 8012 SCREW (A2) | nsp | | | | |
| 70 | | E6D 8004 SHAFT (LEVER) | nsp | | | | |
| 71 | | E6D 8005 SHAFT (TRAY) | nsp | | | | |
| 72 | | E6D 8006 SCREW (FRAME) | nsp | | | | |
| 74 | | E6B 9031 PCB (SUB-C) | *ZZ001820R | | | | |
| 75 | | E6D 8011 SCREW (SUB-L) | nsp | | | | |
| 76 | | 8114512608 BIND TAPPING SCREW 2.6*8 | nsp | | | | |
| 77 | | 8114522608 BIND TAPPING SC 2.6*8(BL) | nsp | | | | |
| 78 | | D40-1500 KCTB1H | 307W304010 | | | | |
| 79 | | E6B 9021 PCB (MAIN-B) | nsp | | | | |
| 80 | | E6B 9022 PCB (SUB-B) | nsp | | | | |
| 81 | | E6D 9003 WIRING HARNESS (TU) | nsp | | | | |
| 83 | | E6D 9005 WIRING HARNESS (SW2) | nsp | | | | |
| 84 | | E6D 9006 4P FFC | *YU000940R | | | | |
| 85 | | E6D 9032 WIRING HARNESS (LED-C) | nsp | | | | |
| 86 | | E6D 9002 16P FFC | *YU000950R | | | | |
| 87 | | E6D 9018 WIRING HARNESS (JAM) | nsp | | | | |
| 88 | | T99-0544 MAGNET | nsp | | | | |
| 90 | | E6C 1001 LEVER (GUIDE) | nsp | | | | |
| 93 | | 94081103 SWITCH MPU1025MLB1 | *SM000350R | | | | |
| 94 | | 94081104 SWITCH MPU10184MLB1 | *SM000360R | | | | |
| 95 | | 96901036 FILAMENT TAPE 15MM*45MM | nsp | | | | |

NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

10. ELECTRICAL PARTS LIST

ASSIGNMENT OF COMMON PARTS CODES.

RESISTORS

R***: 1) GD05xxx140, Carbon film fixed resistor, ±5% 1/4W
 R***: 2) GD05xxx160, Carbon film fixed resistor, ±5% 1/6W

① — Resistance value

Examples ;

① Resistance value
 0.1 Ω 001 10 Ω 100 1 kΩ 102 100 kΩ 104
 0.5 Ω 005 18 Ω 180 2.7 kΩ 272 680 kΩ 684
 1 Ω 010 100 Ω 101 10 kΩ 103 1 MΩ 105
 6.8 Ω 068 390 Ω 391 22 kΩ 223 4.7 MΩ 475

Note : Please distinguish 1/4W from 1/6W by the shape of parts used actually.

CAPACITORS

C***: CERAMIC CAP.

3) DD1xxx370, Ceramic capacitor
 Disc type
 Temp.coeff.P350 ~ N1000, 50V
 ② — Capacity value
 ③ — Tolerance

Examples ;

② Tolerance (Capacity deviation)
 ±0.25 pF 0
 ±0.5 pF 1
 ±5% 5

* Tolerance of COMMON PARTS handled here are as follows :

0.5 pF ~ 5 pF ±0.25 pF
 6 pF ~ 10 pF ±0.5 pF
 12 pF ~ 560 pF ±5%

③ Capacity value



0.5 pF 005 3 pF 030 100 pF 101
 1 pF 010 10 pF 100 220 pF 221
 1.5 pF 015 47 pF 470 560 pF 561

C*** : CERAMIC CAP.

4) DK16xxx300, High dielectric constant ceramic capacitor
 Disc type
 Temp.chara. 2B4, 50V
 ④ — Capacity value

Examples ;

④ Capacity value
 100 pF 101 1000 pF 102 10000 pF 103
 470 pF 471 2200 pF 222

C*** : 5) ELECTROLY CAP. (), 6) FILM CAP. ()

5) EAxxx10, Electrolytic capacitor
 One-way lead type, Tolerance ±20%
 ⑤ — Working voltage
 ⑥ — Capacity value

Examples ;

⑤ Capacity value
 0.1 μF 104 4.7 μF 475 100 μF 107
 0.33 μF 334 10 μF 106 330 μF 337
 1 μF 105 22 μF 226 1100 μF 118
 2200 μF 228

⑥ Working voltage

6.3V 006 25V 025
 10V 010 35V 035
 16V 016 50V 050

6) DF15xxx350 — Plastic film capacitor
 DF15xxx310 — One-way type, Mylar ±5% 50V
 DF16xxx310 — Plastic film capacitor
 One-way type, Mylar ±10% 50V
 ⑦ — Capacity value

Examples ;

⑦ Capacity value
 0.001 μF (1000 pF) 102 0.1 μF 104
 0.0018 μF 182 0.56 μF 564
 0.01 μF 103 1 μF 105
 0.015 μF 153

NOTE : 1) The above CODES (R***, R***, C***, C*** and C***) are omitted on the schematic diagram in some case.
 2) On the occasion, be confirmed the common parts on the parts list.
 3) Refer to "Common Parts List" for the other common parts (RI05, DD4, DK4).

NOTE ON SAFETY FOR FUSIBLE RESISTOR :

The suppliers and their type numbers of fusible resistors are as follows;

1. KOA Corporation

| | | | |
|----------------|---|----------------|-------------|
| Part No. (MJI) | → | Type No. (KOA) | Description |
| NH05xxx140 | → | RF25SxxxΩJ | (±5% 1/4W) |
| NH05xxx120 | → | RF50SxxxΩJ | (±5% 1/2W) |
| NH85xxx110 | → | RF73B2AxxxΩJ | (±5% 1/10W) |
| NH95xxx140 | → | RF73B2ExxxΩJ | (±5% 1/4W) |

* Resistance value Resistance value
 (0.1 Ω – 10 kΩ)

2. Matsushita Electronic Components Co., Ltd

| | | | |
|----------------|---|----------------|-------------|
| Part No. (MJI) | → | Type No. (MEC) | Description |
| NF05xxx140 | → | ERD-2FCJxxx | (±5% 1/4W) |
| RF05xxx140 | → | | |
| NF02xxx140 | → | ERD-2FCGxxx | (±2% 1/4W) |
| RF02xxx140 | → | | |

* Resistance value * Resistance value

Examples ;

* Resistance value
 0.1 Ω 001 10 Ω 100 1 kΩ 102 100 kΩ 104
 0.5 Ω 005 18 Ω 180 2.7 kΩ 272 680 kΩ 684
 1 Ω 010 100 Ω 101 10 kΩ 103 1 MΩ 105
 6.8 Ω 068 390 Ω 391 22 kΩ 223 4.7 MΩ 475



ABBREVIATION AND MARKS

| | |
|------------------------|-----------------------|
| ANT. : ANTENNA | BATT. : BATTERY |
| CAP. : CAPACITOR | CER. : CERAMIC |
| CONN. : CONNECTING | DIG. : DIGITAL |
| HP : HEADPHONE | MIC. : MICROPHONE |
| μ-PRO : MICROPROCESSOR | REC. : RECORDING |
| RES. : RESISTOR | SPK : SPEAKER |
| SW : SWITCH | TRANSF. : TRANSFORMER |
| TRIM. : TRIMMING | TRS. : TRANSISTOR |
| VAR. : VARIABLE | X'TAL : CRYSTAL |


NOTE ON FUSE :

Regarding to all parts of parts code **FS20xxx2xx**, replace only with Wickmann-Werke GmbH, Type 372 non glass type fuse.

NOTE ON SAFETY :

Symbol  Fire or electrical shock hazard. Only original parts should be used to replaced any part marked with symbol . Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

安全上の注意 :

 がついている部品は、安全上重要な部品です。必ず指定されている部品番号の部品を使用して下さい。

| POS. NO | VERS. COLOR | DESCRIPTION | PART NO. (MJ) | POS. NO | VERS. COLOR | DESCRIPTION | PART NO. (MJ) |
|---|-------------|---------------------------------------|---------------|-----------|-------------|---------------------------------|---------------|
| FRONT CIRCUIT BOARD CAPACITORS | | | | | | | |
| C700 } | | KCBS1H473ZFT CER. 0.047µF 50V Z | nsp | C608 | | KCBS1H104ZFT CER. 0.1µF 50V Z | nsp |
| C703 | | | | C609 | | KCBS1H104ZFT CER. 0.1µF 50V Z | nsp |
| C751 | | KCBS1H102KBT CER. 1000pF 50V K | nsp | C610 | | KCEA1CKS470T ELECT 47µF 16V | nsp |
| C752 | | KCBS1H473ZFT CER. 0.047µF 50V Z | nsp | C612 | | KCBS1C682MXT CER. 6800pF 16V M | nsp |
| C753 | | KCBS1H473ZFT CER. 0.047µF 50V Z | nsp | C614 | | KCBS1H104ZFT CER. 0.1µF 50V Z | nsp |
| C754 | | KCBS1H223ZFT CER. 0.022µF 50V Z | nsp | C615 | | KCBS1H104ZFT CER. 0.1µF 50V Z | nsp |
| C755 | | KCBS1H223ZFT CER. 0.022µF 50V Z | nsp | C622 | | KCEA1CKS470T ELECT 47µF 16V | nsp |
| C756 | | KCBS1H473ZFT CER. 0.047µF 50V Z | nsp | C623 | | KCBS1H473ZFT CER. 0.047µF 50V Z | nsp |
| C759 | | KCBS1H104ZFT CER. 0.1µF 50V Z | nsp | C624 | | KCBS1C222MXT CER. 2200pF 16V M | nsp |
| RESISTORS | | | | | | | |
| R695 | | KRD20TJ103T 10k Ω 1/5W J | nsp | C625 | | KCBS1C222MXT CER. 2200pF 16V M | nsp |
| R703 | | KRD20TJ102T 1k Ω 1/5W J | nsp | C627 | | KCFE1J333JBT FILM 0.033µF 63V J | nsp |
| R704 | | KRD20TJ152T 1.5k Ω 1/5W J | nsp | C628 | | KCEA1CKS470T ELECT 47µF 16V | nsp |
| R705 | | KRD20TJ182T 1.8k Ω 1/5W J | nsp | C629 | | KCBS1C472MXT CER. 4700pF 16V M | nsp |
| R706 | | KRD20TJ272T 2.7k Ω 1/5W J | nsp | C630 | | KCBS1H103ZFT CER. 0.01µF 50V Z | nsp |
| R707 | | KRD20TJ332T 3.3k Ω 1/5W J | nsp | C631 | | KCBS1C272MXT CER. 2700pF 16V M | nsp |
| R708 | | KRD20TJ562T 5.6k Ω 1/5W J | nsp | C632 | | KCBS1H103ZFT CER. 0.01µF 50V Z | nsp |
| R709 | | KRD20TJ752T 7.5k Ω 1/5W J | nsp | C633 | | KCBS1H104ZFT CER. 0.1µF 50V Z | nsp |
| R751 | | KRD20TJ102T 1k Ω 1/5W J | nsp | C634 | | KCBS1H103ZFT CER. 0.01µF 50V Z | nsp |
| R752 | | KRD20TJ152T 1.5k Ω 1/5W J | nsp | C635 | | KCBS1H101KBT CER. 100pF 50V K | nsp |
| R753 | | KRD20TJ182T 1.8k Ω 1/5W J | nsp | C636 | | KCEA1CKS470T ELECT 47µF 16V | nsp |
| R754 | | KRD20TJ102T 1k Ω 1/5W J | nsp | C637 | | KCEA1CKS470T ELECT 47µF 16V | nsp |
| R755 | | KRD20TJ152T 1.5k Ω 1/5W J | nsp | C638 | | KCBS1H103ZFT CER. 0.01µF 50V Z | nsp |
| R756 | | KRD20TJ182T 1.8k Ω 1/5W J | nsp | C639 | | KCBS1H104ZFT CER. 0.1µF 50V Z | nsp |
| R757 | | KRD20TJ272T 2.7k Ω 1/5W J | nsp | C640 | | KCEA1CKS470T ELECT 47µF 16V | nsp |
| R758 | | KRD20TJ332T 3.3k Ω 1/5W J | nsp | C641 | | KCEA1CKS470T ELECT 47µF 16V | nsp |
| R759 | | KRD20TJ103T 10k Ω 1/5W J | nsp | C642 | | KCBS1H103ZFT CER. 0.01µF 50V Z | nsp |
| R760 | | KRD20TJ103T 10k Ω 1/5W J | nsp | C643 | | KCEA1CKS101T ELECT 100µF 16V | nsp |
| R761 | | KRD20TJ122T 1.2k Ω 1/5W J | nsp | C644 | | KCEA1CKS101T ELECT 100µF 16V | nsp |
| R771 | | KRD20TJ103T 10k Ω 1/5W J | nsp | C645 | | KCBS1H103ZFT CER. 0.01µF 50V Z | nsp |
| R772 | | KRD20TJ561T 560 Ω 1/5W J | nsp | C646 | | KCBS1H103ZFT CER. 0.01µF 50V Z | nsp |
| R773 | | KRD20TJ473T 47k Ω 1/5W J | nsp | C647 | | KCBS1H473ZFT CER. 0.047µF 50V Z | nsp |
| R782 } | | KRD20TJ151T 150 Ω 1/5W J | nsp | C648 | | KCBS1H150JCT CER. 15pF 50V J | nsp |
| R789 | | | | C649 | | KCBS1H150JCT CER. 15pF 50V J | nsp |
| SEMICONDUCTORS | | | | | | | |
| D702 } | | BVDLNJ401NT L.E.D LMJ401NPYJA | *HI100960R | C650 | | KCBS1H103ZFT CER. 0.01µF 50V Z | nsp |
| D709 | | | | C651 | | KCEA1CKS470T ELECT 47µF 16V | nsp |
| Q701 | | KVTKTD1302T TRS. KTD1302T | *HT400400R | C652 | | KCBS1H473ZFT CER. 0.047µF 50V Z | nsp |
| MISCELLANEOUS | | | | | | | |
| HP71 | | BJJ2D006Z JACK MINI PHONE TC38-103-11 | *YJ002430R | C654 | | KCBS1H473ZFT CER. 0.047µF 50V Z | nsp |
| RS71 | | KRVHIM602H32 SENSOR REMOCON | *HW100510R | C655 | | KCEA1HKS4R7T ELECT 4.7µF 50V | nsp |
| S701 } | | KST1A012ZT SW TACT SKHV10910G | *SP000890R | C656 | | KCEA1HKS4R7T ELECT 4.7µF 50V | nsp |
| S708 | | | | C657 | | KCFE1J182JBT FILM 1800pF | nsp |
| S751 } | | KST1A012ZT SW TACT SKHV10910G | *SP000890R | C658 | | KCFE1J182JBT FILM 1800pF | nsp |
| S760 | | | | C661 | | KCFE1J104JBT FILM 0.1µF 63V J | nsp |
| VR71 | | BSR2A011Z VR ENCODER EC16B243040F | *SR000150R | C662 | | KCBS1H103ZFT CER. 0.01µF 50V Z | nsp |
| CD MAIN CIRCUIT BOARD CAPACITORS | | | | | | | |
| C601 | | KCEA1CKS470T ELECT 47µF 16V | nsp | C663 | | KCEA1CKS101T ELECT 100µF 16V | nsp |
| C602 | | KCEA1CKS101T ELECT 100µF 16V | nsp | C664 | | KCFE1J104JBT FILM 0.1µF 63V J | nsp |
| C603 | | KCBS1H3R3KCT CER. 3.3pF 50V K | nsp | C665 | | KCBS1H104ZFT CER. 0.1µF 50V Z | nsp |
| C604 | | KCBS1H560JT CER. 56pF 50V J | nsp | C666 | | KCBS1H473ZFT CER. 0.047µF 50V Z | nsp |
| C605 | | KCBS1H104ZFT CER. 0.1µF 50V Z | nsp | C667 | | KCFE1J104JBT FILM 0.1µF 63V J | nsp |
| C606 | | KCBS1H104ZFT CER. 0.1µF 50V Z | nsp | C668 | | KCFE1J104JBT FILM 0.1µF 63V J | nsp |
| C607 | | KCBS1H560JT CER. 56pF 50V J | nsp | C669 | | KCBS1H473ZFT CER. 0.047µF 50V Z | nsp |
| | | | | C670 | | KCEA1CKS101T ELECT 100µF 16V | nsp |
| | | | | C671 | | KCBS1H103ZFT CER. 0.01µF 50V Z | nsp |
| | | | | C672 | | KCBS1H103ZFT CER. 0.01µF 50V Z | nsp |
| | | | | C673 | | KCEA1CKS101T ELECT 100µF 16V | nsp |
| | | | | C674 | | KCBS1H103ZFT CER. 0.01µF 50V Z | nsp |
| | | | | C675 | | KCBS1H473ZFT CER. 0.047µF 50V Z | nsp |
| | | | | C676 | | KCBS1H104ZFT CER. 0.1µF 50V Z | nsp |
| | | | | C677 | | KCEA1CKS101T ELECT 100µF 16V | nsp |
| | | | | C678 | | KCBS1H330JT CER. 33pF 50V J | nsp |
| | | | | C679 | | KCBS1H330JT CER. 33pF 50V J | nsp |
| | | | | C680 | | KCEA1CKS470T ELECT 47µF 16V | nsp |
| | | | | C757 | | KCEA1CKS470T ELECT 47µF 16V | nsp |
| | | | | C758 | | KCEA1CKS470T ELECT 47µF 16V | nsp |
| | | | | C760 } | | KCFE1J333JBT FILM 0.033µF 63V J | nsp |
| | | | | C763 | | | |

NOTE : *nsp* PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

| POS. NO | VERS. COLOR | DESCRIPTION | PART NO. (MJI) | POS. NO | VERS. COLOR | DESCRIPTION | PART NO. (MJI) |
|-----------------------|-------------|--|----------------|--------------------------------------|-------------|---|----------------|
| RESISTORS | | | | | | | |
| R601 | | KRD20TJ910T 91 Ω 1/5W J | nsp | Q601 | | KVTKTA1266YT TRS. KTA1266Y | *HT100580R |
| R602 | | KRD20TJ333T 33k Ω 1/5W J | nsp | Q602 | | KVTKTD1302T TRS. KTD1302T | *HT400400R |
| R603 | | | | Q603 | | KVTKRC107MT TRS. KRC107M | *BA001070R |
| ∫ | | KRD20TJ473T 47k Ω 1/5W J | nsp | MISCELLANEOUS | | | |
| R606 | | | | BN66 | | KWDB015150EW WIRE ASS'Y | nsp |
| R607 | | KRD20TJ333T 33k Ω 1/5W J | nsp | BN67 | | KWZCR130BN67 WIRE ASS'Y | nsp |
| R609 | | KRD20TJ683T 68k Ω 1/5W J | nsp | CN61 | | KJP16GA117ZG WAFER CARD CABLE (STRAIGHT) GF102-16S-TS | nsp |
| R610 | | KRD20TJ100T 10 Ω 1/5W J | nsp | CN62 | | KJP16GB116ZG WAFERCARD CABLE (ANGLE) GF120-16S-LS | nsp |
| R611 | | KRD20TJ102T 1k Ω 1/5W J | nsp | CN63 | | KJP02GA68ZG WAFER | nsp |
| R612 | | KRD20TJ221T 220 Ω 1/5W J | nsp | CN64 | | KJP04GB46ZM WAFER MOLEX 53015 | nsp |
| R613 | | KRD20TJ683T 68k Ω 1/5W J | nsp | CN65 | | KJP02GA68ZG WAFER | nsp |
| R614 | | KRD20TJ222T 2.2k Ω 1/5W J | nsp | L601 | | KLQ02C100KT COIL AXAIL 10μH K | nsp |
| R615 | | KRD20TJ183T 18k Ω 1/5W J | nsp | L621 | | KLQ02C100KT COIL AXAIL 10μH K | nsp |
| R616 | | KRD20TJ104T 100k Ω 1/5W J | nsp | RZ01 | | KRGSN5X103J RES NETWORK | nsp |
| R617 | | KRD20TJ102T 1k Ω 1/5W J | nsp | X601 | | KOX16934A120F CRYSTAL 16.934MHz | *JX000740R |
| R618 | | KRD20TJ103T 10k Ω 1/5W J | nsp | X602 | | KOX08000E160C CRYSTAL 8MHz | *JX000410R |
| R621 | | KRD20TJ332T 3.3k Ω 1/5W J | nsp | MAIN CIRCUIT BOARD CAPACITORS | | | |
| R622 | | KRD20TJ103T 10k Ω 1/5W J | nsp | CF11 | | BVFE107MSHAT FILTER CER. JP SFE10.7MS8H-A-T | nsp |
| R623 | | KRD20TJ332T 3.3k Ω 1/5W J | nsp | CF12 | | BVFE107MSHAT FILTER CER. JP SFE10.7MS8H-A-T | nsp |
| R624 | | KRD20TJ103T 10k Ω 1/5W J | nsp | CF13 | | BVFPFB450JR3 FILTER CER. JP pFB450JR3 | nsp |
| R625 | | KRD20TJ183T 18k Ω 1/5W J | nsp | C102 | | KCQI1H152JZT MYLAR 1500pF 50V J | nsp |
| R626 | | KRD20TJ104T 100k Ω 1/5W J | nsp | C103 | | KCEA1HH1R0T ELECT 1.0μF 50V | nsp |
| R627 | | KRD20TJ683T 68k Ω 1/5W J | nsp | C104 | | KCQI1H273JZT MYLAR 0.027μF 50V J | nsp |
| R628 | | KRD20TJ473T 47k Ω 1/5W J | nsp | C107 | | KCKT1H223ZF CER. 0.022μF 50V Z | nsp |
| R629 | | KRD20TJ103T 10k Ω 1/5W J | nsp | C109 | | KCBS1H223ZFT CER. 0.022μF 50V Z | nsp |
| R630 | | KRD20TJ332T 3.3k Ω 1/5W J | nsp | C111 | | KCQI1H223JZT MYLAR 0.022μF 50V J | nsp |
| R632 | | KRD20TJ332T 3.3k Ω 1/5W J | nsp | C112 | | KCEA1HH1R0T ELECT 1.0μF 50V | nsp |
| R633 | | KRD20TJ332T 3.3k Ω 1/5W J | nsp | C113 | | KCEA1CH220T ELECT 22μF 16V | nsp |
| R634 | | KRD20TJ332T 3.3k Ω 1/5W J | nsp | C114 | | KCQI1H103JZT MYLAR 0.01μF 50V J | nsp |
| R635 | | KRD20TJ102T 1k Ω 1/5W J | nsp | C116 | | KCQI1H273JZT MYLAR 0.027μF 50V J | nsp |
| R636 | | KRD20TJ102T 1k Ω 1/5W J | nsp | C117 | | KCEA1CH101T ELECT 100μF 16V | nsp |
| R637 | | KRD20TJ104T 100k Ω 1/5W J | nsp | C120 | | KCBS1H223ZFT CER. 0.022μF 50V Z | nsp |
| R638 | | KRD20TJ104T 100k Ω 1/5W J | nsp | C121 | | KCEA1HH100T ELECT 10μF 50V | nsp |
| R639 | | KRD20TJ101T 100 Ω 1/5W J | nsp | C122 | | KCEA1HH100T ELECT 10μF 50V | nsp |
| R640 | | | | C124 | | KCOS1H471JZ STYROLE 470pF | *OF100210R |
| ∫ | | KRD20TJ103T 10k Ω 1/5W J | nsp | C125 | | KCQI1H473JZT MYLAR 0.047μF 50V J | nsp |
| R643 | | | | C126 | | KCCT1H150JC CER. 15pF 50V J | nsp |
| R651 | | KRD20TJ471T 470 Ω 1/5W J | nsp | C127 | | KCRA020S12 VARIABLE 20pF | *CT000110R |
| R652 | | KRD20TJ221T 220 Ω 1/5W J | nsp | C128 | | KCBS1H473ZFT CER. 0.047μF 50V Z | nsp |
| R653 | | KRD20TJ102T 1k Ω 1/5W J | nsp | C129 | | KCEA1CH101T ELECT 100μF 16V | nsp |
| R654 | | KRD20TJ221T 220 Ω 1/5W J | nsp | C130 | | KCEA1HH100T ELECT 10μF 50V | nsp |
| R671 | | KRD20TJ271T 270 Ω 1/5W J | nsp | C131 | | KCBS1H223ZFT CER. 0.022μF 50V Z | nsp |
| R672 | | KRD20TJ103T 10k Ω 1/5W J | nsp | C132 | | KCBS1H102KBT CER. 1000pF 50V K | nsp |
| R678 | | | | C133 | | KCEA1HH1R0T ELECT 1.0μF 50V | nsp |
| ∫ | | KRD20TJ103T 10k Ω 1/5W J | nsp | C134 | | KCEA1HH1R0T ELECT 1.0μF 50V | nsp |
| R682 | | | | C135 | | KCEA1HHR47T ELECT 0.47μF 50V | nsp |
| R683 | | | | C136 | | KCEA1HH4R7T ELECT 4.7μF 50V | nsp |
| ∫ | | KRD20TJ182T 1.8k Ω 1/5W J | nsp | C137 | | KCBS1H223ZFT CER. 0.022μF 50V Z | nsp |
| R687 | | | | C138 | | KCKT1H471KB CER. 470pF 50V K | nsp |
| R692 | | KRD20TJ182T 1.8k Ω 1/5W J | nsp | C139 | | KCEA1CH101T ELECT 100μF 16V | nsp |
| R693 | | KRD20TJ182T 1.8k Ω 1/5W J | nsp | C140 | | KCBS1H223ZFT CER. 0.022μF 50V Z | nsp |
| R694 | | KRD20TJ182T 1.8k Ω 1/5W J | nsp | C141 | | KCEA1HH2R2T ELECT 2.2μF 50V | nsp |
| R762 | | KRD20TJ103T 10k Ω 1/5W J | nsp | C142 | | KCBS1H223ZFT CER. 0.022μF 50V Z | nsp |
| R763 | | KRD20TJ473T 47k Ω 1/5W J | nsp | C143 | | KCEA1AH471T ELECT 470μF 10V | nsp |
| SEMICONDUCTORS | | | | C144 | | KCCT1H180JC CER. 18pF 50V J | nsp |
| D601 | | KVD1N4148MT DIODE 1N4148 | *HD201550R | C145 | | KCBS1H150JCT CER. 15pF 50V J | nsp |
| D604 | | KVD1N4148MT DIODE 1N4148 | *HD201550R | C150 | | KCKT1H101KB CER. 100pF 50V K | nsp |
| IC61 | | BVITA2150FN IC RF AMP DIGITAL SERVO TA2150FN | *HC107120R | | | | |
| IC62 | | BVITC9462F IC DIGITAL SERVO TC9462F | *HC107140R | | | | |
| ▲ IC63 | | BVITA2092N IC POWER DRIVER TA2092N | *HC107110R | | | | |
| ▲ IC64 | | BVITA7291S IC TA7291S | *HC107130R | | | | |
| ▲ IC65 | | BVITA7291S IC TA7291S | *HC107130R | | | | |
| IC66 | | BVIANAM1325AC IC CD MICOM TMP87CM78F | *HC107070R | | | | |
| ▲ IC67 | | KVIMC7805C IC KA7805-ABTU | *HC300210R | | | | |

NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

| POS. NO | VERS. COLOR | DESCRIPTION | PART NO. (MJI) | POS. NO | VERS. COLOR | DESCRIPTION | PART NO. (MJI) |
|---------|-------------|---------------------------------|----------------|---------|-------------|----------------------------------|----------------|
| C153 | | KCCT1H330JC CER. 33pF 50V J | nsp | C277 | | KCFE1J184JBT FILM 0.18μF | nsp |
| C154 | | KCCT1H330JC CER. 33pF 50V J | nsp | C278 | | KCFE1J184JBT FILM 0.18μF | nsp |
| C155 | | KCBS1H103ZFT CER. 0.01μF 50V Z | nsp | C279 | | KCFE1J184JBT FILM 0.18μF | nsp |
| C156 | | KCKT1H101KB CER. 100pF 50V K | nsp | C280 | | KCKT1H101KB CER. 100pF 50V K | nsp |
| C157 | | KCEA1HH100T ELECT 10μF 50V | nsp | C281 | | KCKT1H101KB CER. 100pF 50V K | nsp |
| C160 | | KCEA1HH4R7T ELECT 4.7μF 50V | nsp | C282 | | KCEA1HH2R2T ELECT 2.2μF 50V | nsp |
| C161 | | KCCT1H470JC CER. 47pF 50V J | nsp | C283 | | KCEA1HH2R2T ELECT 2.2μF 50V | nsp |
| C162 | | KCEA1CH470T ELECT 47μF 16V | nsp | C287 | | K3A206 WIRE COPPER | nsp |
| C165 | | KCBS1H473ZFT CER. 0.047μF 50V Z | nsp | C291 | | KCQI1H104JZT MYLAR 0.1μF 50V J | nsp |
| C179 | | KCEA1HH4R7T ELECT 4.7μF 50V | nsp | C292 | | KCBS1H104ZFT CER. 0.1μF 50V Z | nsp |
| C180 | | KCEA1HH4R7T ELECT 4.7μF 50V | nsp | C293 | | KCEA1HH2R2T ELECT 2.2μF 50V | nsp |
| C181 | | KCEA1HH100T ELECT 10μF 50V | nsp | C309 | | KCBS1H223ZFT CER. 0.022μF 50V Z | nsp |
| C184 | | KCQI1H152JZT MYLAR 1500pF 50V J | nsp | C310 | | KCEA1HH100T ELECT 10μF 50V | nsp |
| C185 | | KCQI1H152JZT MYLAR 1500pF 50V J | nsp | C311 | | KCEA1HH1R0T ELECT 1.0μF 50V | nsp |
| C191 | | KCEA1CH470T ELECT 47μF 16V | nsp | | | | |
| C192 | | KCBS1H223ZFT CER. 0.022μF 50V Z | nsp | | | | |
| C201 | | | | C361 | | KCEA1CH470T ELECT 47μF 16V | nsp |
| } | | KCKT1H101KB CER. 100pF 50V K | nsp | C362 | | KCBS1H270JT CER. 27pF 50V J | nsp |
| C206 | | | | C363 | | KCCT1H270JC CER. 27pF 50V J | nsp |
| C207 | | KCKT1H151KB CER. 150pF 50V K | nsp | C364 | | KCBS1H270JT CER. 27pF 50V J | nsp |
| C208 | | KCKT1H151KB CER. 150pF 50V K | nsp | C365 | | KCCT1H270JC CER. 27pF 50V J | nsp |
| C209 | | KCKT1H101KB CER. 100pF 50V K | nsp | C366 | | KCEA1HH1R0T ELECT 1.0μF 50V | nsp |
| C210 | | KCBS1H104ZFT CER. 0.1μF 50V Z | nsp | C367 | | KCBS1H223ZFT CER. 0.022μF 50V Z | nsp |
| C211 | | KCKT1H101KB CER. 100pF 50V K | nsp | C368 | | KCEA1CH470T ELECT 47μF 16V | nsp |
| C212 | | KCBS1H151KBT CER. 150pF 50V K | nsp | C369 | | KCEA0JH102T ELECT 1000μF 6.3V | nsp |
| C213 | | KCBS1H151KBT CER. 150pF 50V K | nsp | C370 | | KCEA1CH220T ELECT 22μF 16V | nsp |
| C221 | | | | C371 | | KCEA1CH470T ELECT 47μF 16V | nsp |
| } | | KCEA1HH4R7T ELECT 4.7μF 50V | nsp | C372 | | KCKT1H223ZF CER. 0.022μF 50V Z | nsp |
| C226 | | | | C373 | | KCEA1CH470T ELECT 47μF 16V | nsp |
| C227 | | | | C374 | | | |
| } | | KCEA1HH2R2T ELECT 2.2μF 50V | nsp | } | | KCKT1H101KB CER. 100pF 50V K | nsp |
| C235 | | | | C377 | | | |
| C236 | | KCEA1HKS2R2T ELECT 2.2μF 50V | nsp | C378 | | KCKT1H223ZF CER. 0.022μF 50V Z | nsp |
| C237 | | KCBS1H560JT CER. 56pF 50V J | nsp | C379 | | KCBS1H104ZFT CER. 0.1μF 50V Z | nsp |
| C238 | | KCBS1H560JT CER. 56pF 50V J | nsp | C381 | | KCKT1H473ZF CER. 0.047μF 50V Z | nsp |
| C239 | | KCEA1HKS2R2T ELECT 2.2μF 50V | nsp | C382 | | KCKT1H473ZF CER. 0.047μF 50V Z | nsp |
| C240 | | KCEA1HKS2R2T ELECT 2.2μF 50V | nsp | C383 | | KCKT1H473ZF CER. 0.047μF 50V Z | nsp |
| C241 | | KCEA1HH2R2T ELECT 2.2μF 50V | nsp | C384 | | KCBS1H102KBT CER. 1000pF 50V K | nsp |
| C242 | | KCEA1HH2R2T ELECT 2.2μF 50V | nsp | | | | |
| C243 | | KCBS1H471KBT CER. 470pF 50V K | nsp | C501 | | KCKT1H102KB CER. 1000pF 50V K | nsp |
| C244 | | KCBS1H471KBT CER. 470pF 50V K | nsp | C502 | | KCKT1H102KB CER. 1000pF 50V K | nsp |
| C245 | | KCBS1H221KBT CER. 220pF 50V K | nsp | C503 | | KCBS1H221KBT CER. 220pF 50V K | nsp |
| C246 | | KCBS1H221KBT CER. 220pF 50V K | nsp | C504 | | KCBS1H221KBT CER. 220pF 50V K | nsp |
| C247 | | KCEA1CH101T ELECT 100μF 16V | nsp | C505 | | KCCT1H050CC CER. 5pF 50V C | nsp |
| C248 | | KCEA1CH101T ELECT 100μF 16V | nsp | C506 | | KCCT1H050CC CER. 5pF 50V C | nsp |
| C249 | | KCEA1HH4R7T ELECT 4.7μF 50V | nsp | C507 | | KCFT1H104ZF CER. 0.1μF 50V Z | nsp |
| | | | | C510 | | KCQI1H473JZT MYLAR 0.047μF 50V J | nsp |
| C251 | | KCEA1CH470T ELECT 47μF 16V | nsp | C511 | | KCQI1H473JZT MYLAR 0.047μF 50V J | nsp |
| C253 | | KCEA1HH100T ELECT 10μF 50V | nsp | C512 | | KCKT1H223ZF CER. 0.022μF 50V Z | nsp |
| C254 | | KCEA1HH100T ELECT 10μF 50V | nsp | C513 | | KCKT1H223ZF CER. 0.022μF 50V Z | nsp |
| C255 | | KCBS1H223ZFT CER. 0.022μF 50V Z | nsp | C515 | | KCQE1J124KXT METAL 0.12μF 63V K | *OF100180R |
| C256 | | KCBS1H223ZFT CER. 0.022μF 50V Z | nsp | C516 | | KCQE1J124KXT METAL 0.12μF 63V K | *OF100180R |
| C258 | | KCBS1H223ZFT CER. 0.022μF 50V Z | nsp | C520 | | KCEA1HH2R2T ELECT 2.2μF 50V | nsp |
| C259 | | KCBS1H223ZFT CER. 0.022μF 50V Z | nsp | C521 | | KCEA1HH2R2T ELECT 2.2μF 50V | nsp |
| C260 | | KCEA1HH100T ELECT 10μF 50V | nsp | C522 | | | |
| C261 | | KCEA1HH100T ELECT 10μF 50V | nsp | } | | KCEA1CH470T ELECT 47μF 16V | nsp |
| C262 | | KCBS1H223ZFT CER. 0.022μF 50V Z | nsp | C525 | | | |
| C264 | | KCEA1HH100T ELECT 10μF 50V | nsp | C526 | | KCEA1HH470T ELECT 47μF 50V | nsp |
| C265 | | KCEA1CH101T ELECT 100μF 16V | nsp | C528 | | KCEA1HH100T ELECT 10μF 50V | nsp |
| C266 | | KCEA1CH101T ELECT 100μF 16V | nsp | C529 | | KCEA1VH101T ELECT 100μF 35V | nsp |
| C267 | | KCKT1H223ZF CER. 0.022μF 50V Z | nsp | ▲ C530 | | KCEA1HH332E ELECT 3300μF 50V | *EA001070R |
| C268 | | KCKT1H223ZF CER. 0.022μF 50V Z | nsp | ▲ C531 | | KCEA1HH332E ELECT 3300μF 50V | *EA001070R |
| C269 | | KCEA1CH470T ELECT 47μF 16V | nsp | C532 | | KCQI1H473JZT MYLAR 0.047μF 50V J | nsp |
| C271 | | KCKT1H223ZF CER. 0.022μF 50V Z | nsp | C533 | | KCQI1H473JZT MYLAR 0.047μF 50V J | nsp |
| C272 | | KCQI1H272JZT MYLAR 2700pF 50V J | nsp | C541 | | KCQI1H102JZT MYLAR 1000pF 50V J | nsp |
| C273 | | KCQI1H272JZT MYLAR 2700pF 50V J | nsp | C542 | | KCQI1H102JZT MYLAR 1000pF 50V J | nsp |
| C274 | | KCBS1H104ZFT CER. 0.1μF 50V Z | nsp | C543 | | KCBS1H104ZFT CER. 0.1μF 50V Z | nsp |
| C275 | | KCBS1H104ZFT CER. 0.1μF 50V Z | nsp | C544 | | KCBS1H104ZFT CER. 0.1μF 50V Z | nsp |
| C276 | | KCFE1J184JBT FILM 0.18μF | nsp | C545 | | KCQI1H222JZT MYLAR 2200pF 50V J | nsp |
| | | | | C546 | | KCQI1H222JZT MYLAR 2200pF 50V J | nsp |

NOTE : "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

| POS. NO | VERS. COLOR | DESCRIPTION | PART NO. (MJI) | POS. NO | VERS. COLOR | DESCRIPTION | PART NO. (MJI) |
|---------|-------------|---------------------------------------|----------------|---------|-------------|---------------------------|----------------|
| C901 | | KCKT1H223ZF CER. 0.022µF 50V Z | nsp | R155 | | KRD20TJ102T 1k Ω 1/5W J | nsp |
| C902 | | KCKT1H223ZF CER. 0.022µF 50V Z | nsp | R156 | | KRD20TJ102T 1k Ω 1/5W J | nsp |
| C906 | | KCBS1H223ZFT CER. 0.022µF 50V Z | nsp | R161 | | KRD20TJ102T 1k Ω 1/5W J | nsp |
| C917 | | KCBS1H223ZFT CER. 0.022µF 50V Z | nsp | R162 | | KRD20TJ102T 1k Ω 1/5W J | nsp |
| C918 | | KCBS1H223ZFT CER. 0.022µF 50V Z | nsp | R164 | | KRD20TJ101T 100 Ω 1/5W J | nsp |
| C925 | | KCEA1CH471T ELECT 470µF 16V | nsp | R172 | | KRD20TJ102T 1k Ω 1/5W J | nsp |
| C926 | | KCEA1CH471T ELECT 470µF 16V | nsp | R173 | | KRD20TJ102T 1k Ω 1/5W J | nsp |
| C927 | | KCEA1CH101T ELECT 100µF 16V | nsp | R184 | | KRD20TJ104T 100k Ω 1/5W J | nsp |
| C928 | | KCEA1CH101T ELECT 100µF 16V | nsp | R185 | | KRD20TJ104T 100k Ω 1/5W J | nsp |
| C929 | | KCEA1CH471T ELECT 470µF 16V | nsp | R191 | | KRD20TJ102T 1k Ω 1/5W J | nsp |
| C930 | | KCEA1CH101T ELECT 100µF 16V | nsp | R201 | | KRD20TJ102T 1k Ω 1/5W J | nsp |
| C931 | | KCEA1EH331T ELECT 330µF 25V | nsp | R202 | | KRD20TJ102T 1k Ω 1/5W J | nsp |
| C932 | | KCEA1HH470T ELECT 47µF 50V | nsp | R203 | | KRD20TJ561T 560 Ω 1/5W J | nsp |
| C933 | | KCEA1HH470T ELECT 47µF 50V | nsp | R204 | | KRD20TJ561T 560 Ω 1/5W J | nsp |
| C934 | | KCEA1HH4R7T ELECT 4.7µF 50V | nsp | R205 | | KRD20TJ102T 1k Ω 1/5W J | nsp |
| C935 | | KCEA1HH101T ELECT 100µF 50V | nsp | R206 | | KRD20TJ102T 1k Ω 1/5W J | nsp |
| C936 | | KCEA1HH101T ELECT 100µF 50V | nsp | R207 | | KRD20TJ561T 560 Ω 1/5W J | nsp |
| C937 | | KCBS1H223ZFT CER. 0.022µF 50V Z | nsp | R208 | | KRD20TJ561T 560 Ω 1/5W J | nsp |
| C938 | | KCBS1H223ZFT CER. 0.022µF 50V Z | nsp | R209 | | KRD20TJ102T 1k Ω 1/5W J | nsp |
| ▲ C940 | | KCEA1VH222E ELECT 2200µF 35V | *EA000850R | R210 | | KRD20TJ102T 1k Ω 1/5W J | nsp |
| ▲ C941 | | KCEA1VH222E ELECT 2200µF 35V | *EA000850R | R211 | | KRD20TJ102T 1k Ω 1/5W J | nsp |
| C942 | | KCEA1VH222E ELECT 2200µF 35V | *EA000850R | R212 | | KRD20TJ101T 100 Ω 1/5W J | nsp |
| C944 | | KCBS1H223ZFT CER. 0.022µF 50V Z | nsp | R213 | | | |
| C945 | | KCBS1H473ZFT CER. 0.047µF 50V Z | nsp | } | | KRD20TJ473T 47k Ω 1/5W J | nsp |
| C946 | | | nsp | R218 | | | |
| } | | KCBS1H223ZFT CER. 0.022µF 50V Z | nsp | R221 | | | |
| C950 | | | nsp | } | | KRD20TJ102T 1k Ω 1/5W J | nsp |
| C951 | | KCEA1HH100T ELECT 10µF 50V | nsp | R228 | | | |
| C952 | | KCEA1HH1R0T ELECT 1.0µF 50V | nsp | R233 | | KRD20TJ102T 1k Ω 1/5W J | nsp |
| ▲ C953 | | BCKWKH472ME CER. (KH) DE1310-610E472M | nsp | R234 | | KRD20TJ102T 1k Ω 1/5W J | nsp |
| C954 | | KCBS1H223ZFT CER. 0.022µF 50V Z | nsp | R235 | | KRD20TJ473T 47k Ω 1/5W J | nsp |
| C955 | | KCBS1H223ZFT CER. 0.022µF 50V Z | nsp | R236 | | KRD20TJ473T 47k Ω 1/5W J | nsp |
| C956 | | KCBS1H104ZFT CER. 0.1µF 50V Z | nsp | R237 | | KRD20TJ223T 22k Ω 1/5W J | nsp |
| C961 | | KCEA1HH100T ELECT 10µF 50V | nsp | R238 | | KRD20TJ223T 22k Ω 1/5W J | nsp |
| | | RESISTORS | | R239 | | KRD20TJ473T 47k Ω 1/5W J | nsp |
| R102 | | KRD20TJ102T 1k Ω 1/5W J | nsp | R240 | | KRD20TJ473T 47k Ω 1/5W J | nsp |
| R103 | | KRD20TJ181T 180 Ω 1/5W J | nsp | R241 | | KRD20TJ102T 1k Ω 1/5W J | nsp |
| R107 | | KRD20TJ101T 100 Ω 1/5W J | nsp | R242 | | KRD20TJ102T 1k Ω 1/5W J | nsp |
| R108 | | KRD20TJ471T 470 Ω 1/5W J | nsp | R243 | | KRD20TJ473T 47k Ω 1/5W J | nsp |
| R110 | | KRD20TJ332T 3.3k Ω 1/5W J | nsp | R244 | | KRD20TJ473T 47k Ω 1/5W J | nsp |
| R111 | | KRD20TJ331T 330 Ω 1/5W J | nsp | R245 | | KRD20TJ102T 1k Ω 1/5W J | nsp |
| R112 | | KRD20TJ471T 470 Ω 1/5W J | nsp | R246 | | KRD20TJ102T 1k Ω 1/5W J | nsp |
| R118 | | KRD20TJ333T 33k Ω 1/5W J | nsp | R249 | | KRD20TJ473T 47k Ω 1/5W J | nsp |
| R119 | | KRD20TJ102T 1k Ω 1/5W J | nsp | R250 | | KRD20TJ473T 47k Ω 1/5W J | nsp |
| R120 | | KRD20TJ104T 100k Ω 1/5W J | nsp | | | | |
| R121 | | KRD20TJ103T 10k Ω 1/5W J | nsp | R251 | | KRD20TJ393T 39k Ω 1/5W J | nsp |
| R122 | | KRD20TJ332T 3.3k Ω 1/5W J | nsp | R252 | | KRD20TJ393T 39k Ω 1/5W J | nsp |
| R123 | | KRD20TJ104T 100k Ω 1/5W J | nsp | R253 | | KRD20TJ473T 47k Ω 1/5W J | nsp |
| R124 | | KRD20TJ562T 5.6k Ω 1/5W J | nsp | R254 | | KRD20TJ473T 47k Ω 1/5W J | nsp |
| R125 | | KRD20TJ561T 560 Ω 1/5W J | nsp | R255 | | KRD20TJ4R7T 4.7 Ω 1/5W J | nsp |
| R126 | | KRD20TJ471T 470 Ω 1/5W J | nsp | R256 | | KRD20TJ4R7T 4.7 Ω 1/5W J | nsp |
| R127 | | KRD20TJ101T 100 Ω 1/5W J | nsp | R257 | | KRD20TJ102T 1k Ω 1/5W J | nsp |
| R128 | | KRD20TJ103T 10k Ω 1/5W J | nsp | R258 | | KRD20TJ102T 1k Ω 1/5W J | nsp |
| R129 | | KRD20TJ103T 10k Ω 1/5W J | nsp | R261 | | | |
| R130 | | KRD20TJ222T 2.2k Ω 1/5W J | nsp | } | | KRD20TJ473T 47k Ω 1/5W J | nsp |
| | | | | R264 | | | |
| R131 | | KRD20TJ102T 1k Ω 1/5W J | nsp | R271 | | | |
| R132 | | KRD20TJ222T 2.2k Ω 1/5W J | nsp | } | | KRD20TJ121T 120 Ω 1/5W J | nsp |
| R133 | | KRD20TJ332T 3.3k Ω 1/5W J | nsp | R275 | | | |
| R134 | | KRD20TJ472T 4.7k Ω 1/5W J | nsp | R281 | | KRD20TJ121T 120 Ω 1/5W J | nsp |
| R138 | | KRD20TJ472T 4.7k Ω 1/5W J | nsp | R282 | | KRD20TJ121T 120 Ω 1/5W J | nsp |
| R139 | | KRD20TJ103T 10k Ω 1/5W J | nsp | R283 | | KRD20TJ560T 56 Ω 1/5W J | nsp |
| R140 | | KRD20TJ103T 10k Ω 1/5W J | nsp | R291 | | KRD20TJ101T 100 Ω 1/5W J | nsp |
| R141 | | KRD20TJ333T 33k Ω 1/5W J | nsp | R292 | | KRD20TJ103T 10k Ω 1/5W J | nsp |
| R142 | | KRD20TJ101T 100 Ω 1/5W J | nsp | R293 | | KRD20TJ223T 22k Ω 1/5W J | nsp |
| R149 | | KRD20TJ102T 1k Ω 1/5W J | nsp | R294 | | KRD20TJ474T 470k Ω 1/5W J | nsp |
| R151 | | KRD20TJ102T 1k Ω 1/5W J | nsp | R295 | | KRD20TJ474T 470k Ω 1/5W J | nsp |
| R154 | | KRD20TJ102T 1k Ω 1/5W J | nsp | R301 | | KRD20TJ102T 1k Ω 1/5W J | nsp |
| | | | | R302 | | KRD20TJ562T 5.6k Ω 1/5W J | nsp |

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| POS. NO | VERS. COLOR | DESCRIPTION | PART NO. (MJI) | POS. NO | VERS. COLOR | DESCRIPTION | PART NO. (MJI) |
|---------|-------------|------------------------------|----------------|------------|-------------|---|----------------|
| R303 | | KRD20TJ562T | 5.6k Ω 1/5W J | nsp | ▲ R905 | KRG1ANJ2R2H METAL OXIDE FILM | GA05022010 |
| R304 | | KRD20TJ100T | 10 Ω 1/5W J | nsp | | 2.2 Ω 1W J | |
| R305 | | KRD20TJ100T | 10 Ω 1/5W J | nsp | R906 | KRD20TJ123T | 12k Ω 1/5W J |
| R306 | | KRD20TJ473T | 47k Ω 1/5W J | nsp | R907 | KRD20TJ123T | 12k Ω 1/5W J |
| R307 | | KRD20TJ472T | 4.7k Ω 1/5W J | nsp | R909 | KRD20TJ560T | 56 Ω 1/5W J |
| R308 | | KRD20TJ121T | 120 Ω 1/5W J | nsp | R910 | KRD20TJ560T | 56 Ω 1/5W J |
| R309 | | KRD20TJ472T | 4.7k Ω 1/5W J | nsp | R911 | KRD20TJ122T | 1.2k Ω 1/5W J |
| R311 | | KRD20TJ104T | 100k Ω 1/5W J | nsp | R912 | KRD20TJ473T | 47k Ω 1/5W J |
| R312 | | KRD20TJ104T | 100k Ω 1/5W J | nsp | R924 | KRG1ANJ100H METAL OXIDE FILM | GA05100010 |
| R313 | | KRD25TJ104T | 100k Ω 1/4W J | nsp | | 10 Ω 1W J | |
| R314 | | KRD25TJ104T | 100k Ω 1/4W J | nsp | R925 | KRD20TJ563T | 56k Ω 1/5W J |
| R361 | | KRD20TJ102T | 1k Ω 1/5W J | nsp | ▲ R926 | KRF2CJR27H CEMENT 0.27 Ω 2W | *GO000010R |
| R362 | | KRD20TJ273T | 27k Ω 1/5W J | nsp | ▲ R927 | KRF2CJR27H CEMENT 0.27 Ω 2W | *GO000010R |
| R363 | | KRD20TJ105T | 1M Ω 1/5W J | nsp | ▲ R928 | KRQ1AJR47H FUSE 0.47 Ω 1W J | *NH000080R |
| R364 | | KRD20TJ102T | 1k Ω 1/5W J | nsp | ▲ R929 | KRQ1AJR47H FUSE 0.47 Ω 1W J | *NH000080R |
| R365 | | KRD20TJ561T | 560 Ω 1/5W J | nsp | R931 | KRD20TJ474T | 470k Ω 1/5W J |
| R366 | | KRD20TJ182T | 1.8k Ω 1/5W J | nsp | R932 | KRD20TJ102T | 1k Ω 1/5W J |
| R367 | | KRD20TJ273T | 27k Ω 1/5W J | nsp | R933 | KRD20TJ103T | 10k Ω 1/5W J |
| R368 | | KRD20TJ103T | 10k Ω 1/5W J | nsp | R936 | KRD20TJ223T | 22k Ω 1/5W J |
| R369 | | KRD20TJ473T | 47k Ω 1/5W J | nsp | R937 | KRD20TJ103T | 10k Ω 1/5W J |
| R370 | | KRD20TJ103T | 10k Ω 1/5W J | nsp | | | |
| R371 | | KRD20TJ103T | 10k Ω 1/5W J | nsp | VR11 | BVN1PA502B01T SEMI FIXED (5k Ω) MY | *RA001010R |
| R372 | | KRD20TJ103T | 10k Ω 1/5W J | nsp | | EVNDJAA03B53 | |
| R373 | | | | | VR12 | KVN1RA223B01T SEMI FIXED (22k Ω) | *RA000950R |
| R376 | | KRD20TJ472T | 4.7k Ω 1/5W J | nsp | | RH0638C-223 | |
| R377 | | KRD20TJ473T | 47k Ω 1/5W J | nsp | VR13 | KVN1RA103B01T SEMI FIXED (10k Ω) | *RA001020R |
| R379 | | KRD20TJ103T | 10k Ω 1/5W J | nsp | | RH0638C-103 | |
| R381 | | KRD20TJ103T | 10k Ω 1/5W J | nsp | | | |
| R382 | | KRD20TJ103T | 10k Ω 1/5W J | nsp | | SEMICONDUCTORS | |
| R383 | | KRD20TJ102T | 1k Ω 1/5W J | nsp | D101 | BVDSVC342LT DIODE VARICAP SVC342-L-AA | *HD400160R |
| R384 | | KRD20TJ102T | 1k Ω 1/5W J | nsp | D103 | KVD1N4148MT DIODE 1N4148 | *HD201550R |
| R503 | | | | | D105 | KVD1N4148MT DIODE 1N4148 | *HD201550R |
| R506 | | KRD20TJ473T | 47k Ω 1/5W J | nsp | D201 | KVD1N4148MT DIODE 1N4148 | *HD201550R |
| R507 | | KRD20TJ222T | 2.2k Ω 1/5W J | nsp | D202 | KVD1N4148MT DIODE 1N4148 | *HD201550R |
| R508 | | KRD20TJ222T | 2.2k Ω 1/5W J | nsp | D355 | KVD1N4148MT DIODE 1N4148 | *HD201550R |
| R509 | | KRD20TJ101T | 100 Ω 1/5W J | nsp | D361 | | |
| R510 | | KRD20TJ562T | 5.6k Ω 1/5W J | nsp | | KVD1N4148MT DIODE 1N4148 | *HD201550R |
| R511 | | KRD20TJ101T | 100 Ω 1/5W J | nsp | D364 | | |
| R512 | | KRD20TJ104T | 100k Ω 1/5W J | nsp | D366 | KVD1N4148MT DIODE 1N4148 | *HD201550R |
| R520 | | KRD20TJ332T | 3.3k Ω 1/5W J | nsp | D367 | KVD1N4148MT DIODE 1N4148 | *HD201550R |
| | | | | | D368 | KVD1N4148MT DIODE 1N4148 | *HD201550R |
| R521 | | KRD20TJ332T | 3.3k Ω 1/5W J | nsp | D369 | KVD1N4148MT DIODE 1N4148 | *HD201550R |
| R522 | | KRD20TJ103T | 10k Ω 1/5W J | nsp | ▲ D501 | BVDPBU604F DIODE BRIDGE PBU604F | *HE200290R |
| R523 | | KRD20TJ103T | 10k Ω 1/5W J | nsp | D502 | | |
| R524 | | KRD20TJ102T | 1k Ω 1/5W J | nsp | | KVD1N4148MT DIODE 1N4148 | *HD201550R |
| R525 | | KRD20TJ102T | 1k Ω 1/5W J | nsp | D506 | | |
| R526 | | KRD20TJ100T | 10 Ω 1/5W J | nsp | D901 | | |
| R527 | | KRD20TJ123T | 12k Ω 1/5W J | nsp | | KVD1N4003ST DIODE 1N4003 | HD200010AR |
| R528 | | KRD20TJ123T | 12k Ω 1/5W J | nsp | D910 | | |
| R529 | | KRD20TJ473T | 47k Ω 1/5W J | nsp | ▲ D915 | KVDMTZJ13BT DIODE ZENER 13V 1/2W | HD31301000 |
| R530 | | KRD20TJ473T | 47k Ω 1/5W J | nsp | ▲ D916 | KVDMTZJ13BT DIODE ZENER 13V 1/2W | HD31301000 |
| R531 | | KRD20TJ153T | 15k Ω 1/5W J | nsp | ▲ D917 | KVDMTZJ6.2BT DIODE ZENER 6.2V 1/2W | *HD301710R |
| ▲ R535 | | KRD50FJ102T | 1k Ω 1/2W J | nsp | ▲ D919 | KVDMTZJ6.2BT DIODE ZENER 6.2V 1/2W | *HD301710R |
| ▲ R536 | | | | | D920 | KVDMTZJ9.1BT DIODE ZENER 9.1V 1/2W | *HD301970R |
| | | | | | ▲ D921 | KVDMTZJ33BT DIODE ZENER 33V 1/2W | *HD301740R |
| ▲ R539 | | KRD50FJ222T | 2.2k Ω 1/2W J | nsp | D922 | KVD1N4003ST DIODE 1N4003 | HD200010AR |
| ▲ R540 | | KRD50FJ102T | 1k Ω 1/2W J | nsp | D923 | KVD1N4003ST DIODE 1N4003 | HD200010AR |
| R541 | | KRG1ANJ100H METAL OXIDE FILM | 10 Ω 1W J | GA05100010 | IC11 | BVILA1836M IC IF+MPX LA1836M | *HC107080R |
| R542 | | KRG1ANJ100H METAL OXIDE FILM | 10 Ω 1W J | GA05100010 | IC12 | BVILC72131M IC PLL LC72131M | *HC104820R |
| ▲ R543 | | KRF2CJR27H CEMENT 0.27 Ω 2W | | *GO000010R | IC21 | BVITDA7318D IC VOLUME+FUNCTION | *HC107150R |
| ▲ R544 | | KRF2CJR27H CEMENT 0.27 Ω 2W | | *GO000010R | IC22 | BVILC4966 IC LC4966 | HC10150030 |
| R901 | | KRD25TJ681T | 680 Ω 1/4W J | nsp | IC23 | BVINJM2068MDTE1 IC OP AMP NJM2068MD-TE1 | *HC107090R |
| R902 | | KRD25TJ681T | 680 Ω 1/4W J | nsp | IC24 | BVINJM2068MDTE1 IC OP AMP NJM2068MD-TE1 | *HC107090R |
| R903 | | KRD25TJ222T | 2.2k Ω 1/4W J | nsp | IC25 | BVINJM4556AL IC NJM4556AL | HC10200090 |
| ▲ R904 | | KRD50FJ222T | 2.2k Ω 1/2W J | nsp | IC36 | BVIANAM1301AT IC MAIN MICOM | *HC107060R |
| | | | | | | TMP87CM78F-1G69 | |

NOTE: "nsp" PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.

| POS. NO | VERS. COLOR | DESCRIPTION | PART NO. (MJI) |
|----------------------|-------------|--|----------------|
| IC37 | | BVIRE5VL30CARZ VOLTAGE DETECTOR JP RE5VL30CA-TZ (RR) | *HC105150R |
| ▲ IC52 | | BVISTK4132(2) IC AMP STK4132 (II) | *HC107100R |
| ▲ IC91 | | BVINJM7808FA IC NJM7808FA | HC38908090 |
| Q101 | | KVTKTC3192OT TRS. KTC31920 | *HT300480R |
| Q103 | | KVKRA107MT TRS. KRA107M | *BA001060R |
| Q104 | | KVTKSA1175YT TRS. KSA1175Y | *HT100390R |
| Q107 | | KVTKRC107MT TRS. KRC107M | *BA001070R |
| Q108 | | KVTKRA107MT TRS. KRA107M | *BA001060R |
| Q109 | | KVTKTD1302T TRS. KTD1302T | *HT400400R |
| Q110 | | KVTKTD1302T TRS. KTD1302T | *HT400400R |
| Q201 | | | |
| Q208 | | KVTKTD1302T TRS. KTD1302T | *HT400400R |
| Q211 | | KVTKRC107MT TRS. KRC107M | *BA001070R |
| Q212 | | KVTKRC107MT TRS. KRC107M | *BA001070R |
| Q213 | | KVTKRA107MT TRS. KRA107M | *BA001060R |
| Q361 | | KVTKRC107MT TRS. KRC107M | *BA001070R |
| Q362 | | KVTKRA107MT TRS. KRA107M | *BA001060R |
| Q363 | | KVTKSB811YT TRS. KSB811Y | *HT200340R |
| Q367 | | KVTKRC107MT TRS. KRC107M | *BA001070R |
| Q368 | | KVTKTD1302T TRS. KTD1302T | *HT400400R |
| Q369 | | KVTKTD1302T TRS. KTD1302T | *HT400400R |
| Q370 | | KVTKRA107MT TRS. KRA107M | *BA001060R |
| Q502 | | KVTKRC107MT TRS. KRC107M | *BA001070R |
| Q503 | | KVTKRC107MT TRS. KRC107M | *BA001070R |
| Q504 | | KVTKRA107MT TRS. KRA107M | *BA001060R |
| Q505 | | KVTKSA1175YT TRS. KSA1175Y | *HT100390R |
| Q506 | | KVTKSA1175YT TRS. KSA1175Y | *HT100390R |
| Q507 | | KVTKRC107MT TRS. KRC107M | *BA001070R |
| Q901 | | KVTKRA107MT TRS. KRA107M | *BA001060R |
| Q902 | | KVTKRA107MT TRS. KRA107M | *BA001060R |
| Q903 | | KVTKRA107MT TRS. KRA107M | *BA001060R |
| Q904 | | KVTKRC107MT TRS. KRC107M | *BA001070R |
| Q905 | | KVTKRC107MT TRS. KRC107M | *BA001070R |
| Q906 | | KVTKRC107MT TRS. KRC107M | *BA001070R |
| ▲ Q908 | | KVTKTD2058Y TRS. KTD2058Y | *HT400410R |
| ▲ Q909 | | KVTKTD2058Y TRS. KTD2058Y | *HT400410R |
| ▲ Q911 | | KVTKTA1274YT TRS. KTA1274Y | *HT100430R |
| ▲ Q915 | | KVTKSD288Y TRS. KSD288Y | *HT400350R |
| ▲ Q916 | | KVTKSA614Y TRS. KSA614Y | *HT100570R |
| Q917 | | KVTKRC107MT TRS. KRC107M | *BA001070R |
| Q918 | | KVTKRC107MT TRS. KRC107M | *BA001070R |
| Q920 | | KVTKRA107MT TRS. KRA107M | *BA001060R |
| MISCELLANEOUS | | | |
| BA36 | | BABGP40BVH3A3H BATTERY RECHARGEABLE 3.6V /40mAh GP40BVH3A3H | *ZB000020R |
| BK01 | | KMC1A111 PLATE EARTH | nsp |
| BK02 | | KMC1A111 PLATE EARTH | nsp |
| BN12 | | KJP15TT122ZP TERMINAL CR-H130 | nsp |
| BN91 | | KWZAV7748 WIRE ASS'Y 2.5MM (3P) | nsp |
| BN92 | | KWZAV7748 WIRE ASS'Y 2.5MM (3P) | nsp |
| CN10 | | KJP02GA19ZM WAFER | nsp |
| CN12 | | KJP15HA37ZM HOUSING 42140 (15PIN) | nsp |
| CN21 | | KJP06GA98ZM WAFER MOLEX35336-0610 | nsp |
| CN22 | | KJP11GA98ZM WAFER | nsp |
| CN51 | | KJP05GA102ZM WAFER 53291 (5PIN) | nsp |
| CN66 | | KJP15GA19ZM WAFER | nsp |
| CN67 | | KJP03GA19ZM WAFER | nsp |
| CN71 | | KJP15GA115ZG WAFER CARD CABLE GF120-15S-TS | nsp |
| CN72 | | KJP24GA115ZG WAFER CARD CABLE GF120-24S-TS | nsp |
| CN75 | | KJP11GA19ZM WAFER MOLEX-53014 | nsp |
| CN91 | | KJP03GA01ZM WAFER MOLEX 5267-03A | nsp |

| POS. NO | VERS. COLOR | DESCRIPTION | PART NO. (MJI) |
|---------|-------------|--|----------------|
| CN92 | | KJP03GA01ZM WAFER MOLEX 5267-03A | nsp |
| F901 | | KJCF5S HOLDER FUSE | nsp |
| ▲ F901 | F | KBA2C2000TLE FUSE (F) 250V | *FS000850R |
| ▲ F901 | C | KBA2C1000TL FUSE (C) | nsp |
| JK01 | | KJJ3G010Z TREMINAL ANT (USA 75) | *YT001630R |
| JK11 | | BJS9L001Z MODULE OPTICAL (TX) TX178A | *YJ002440R |
| JK21 | | KJJ4R012Z TERMINAL IN/OUT | *YT001690R |
| JK22 | | KJJ4R018Z JACK PIN BOARD JK060092JN | *YJ002450R |
| JW21 | | KWZAH300JW74 WIRE ASS'Y A-H300 | nsp |
| JW51 | | KWZAAV1100W801 WIRE ASSS'Y | nsp |
| JW52 | | KWZAH300JW74 WIRE ASSS'Y A-H300 | nsp |
| L130 | | KLQ02C100KT COIL AXAIL 10μH K | nsp |
| RY51 | | BSL4A008ZE RELAY G5Z-2A-DC12V | *LY000220R |
| SP51 | | KJJ5P017Z TERMINAL SPEAKER RB/RB | *YT002450R |
| S301 | | KST1A012ZT SW TACT SKHV10910G | *SP000890R |
| TF01 | | KNVKSTF401VJ PACK FRONT END (3GANG) KSTF401VJ-1 | *AV000130R |
| TW91 | | KJP02KA060ZY WAFER 7.92MM (YUNHO) | nsp |
| T101 | | KLA2C005 COIL AM ANT 2 | *LA000090R |
| T102 | | KLO2B008Z COIL AM OSC | *LO000060R |
| T103 | | KLI3B028Z I.F.T FM | *LI000140R |
| T104 | | KLI2B111Z I.F.T AM | *LI000130R |
| ▲ T901 | F | KLT5P037ZJ TRANS POWER (F) | *TS001480R |
| ▲ T901 | C | KLT5P037Z TRANS POWER (C) KOREA | nsp |
| WF21 | | KJP06GB99ZM CONNECTOR MOLEX35237-0610 | nsp |
| WF22 | | KJP11GB99ZM CONNECTOR | nsp |
| WF51 | | KJP05GB103ZM WAFER 52419 (5PIN) | nsp |
| X101 | | BVFZTB456F11 RESONATOR CER. ZTB456F11 | *FQ000390R |
| X102 | | BVFLZU450C4N FILTER CER. LZU450C4N | *FQ000520R |
| X104 | | KOX07200A200C CRYSTAL 7.2MHz | *JX07001261 |
| X361 | | KOX08000E160C CRYSTAL 8MHz | *JX000410R |
| X362 | | BOX00032A120C CRYSTAL 32.768KHz DT-38 | *JX000730R |

NOTE : *nsp* PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.