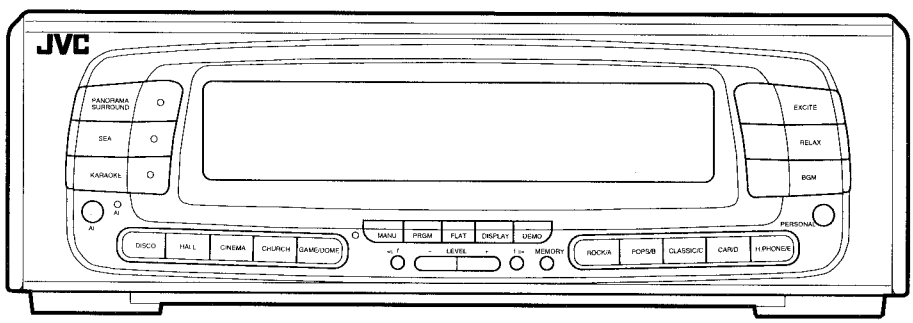
JVC

# SERVICE MANUAL

## COMPACT COMPONENT SYSTEM

# CA-MXG7BK/XT-MXG7BK

(Unit No. SE-MXG7BK)




* For the instruction manual and the packing, please refer to the manual of RX-MXG7BK (No.20393).
* RX-MXG7BK is needed (for power supply etc.) when servicing.

## Contents

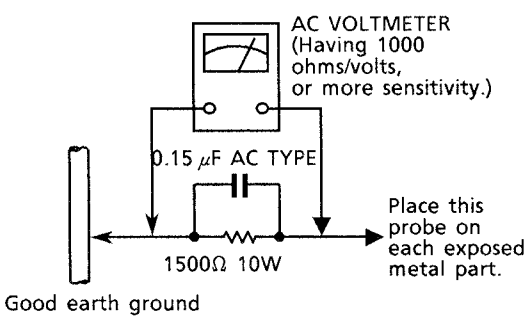




No. 20394
Feb. 1993

## Safety Precautions

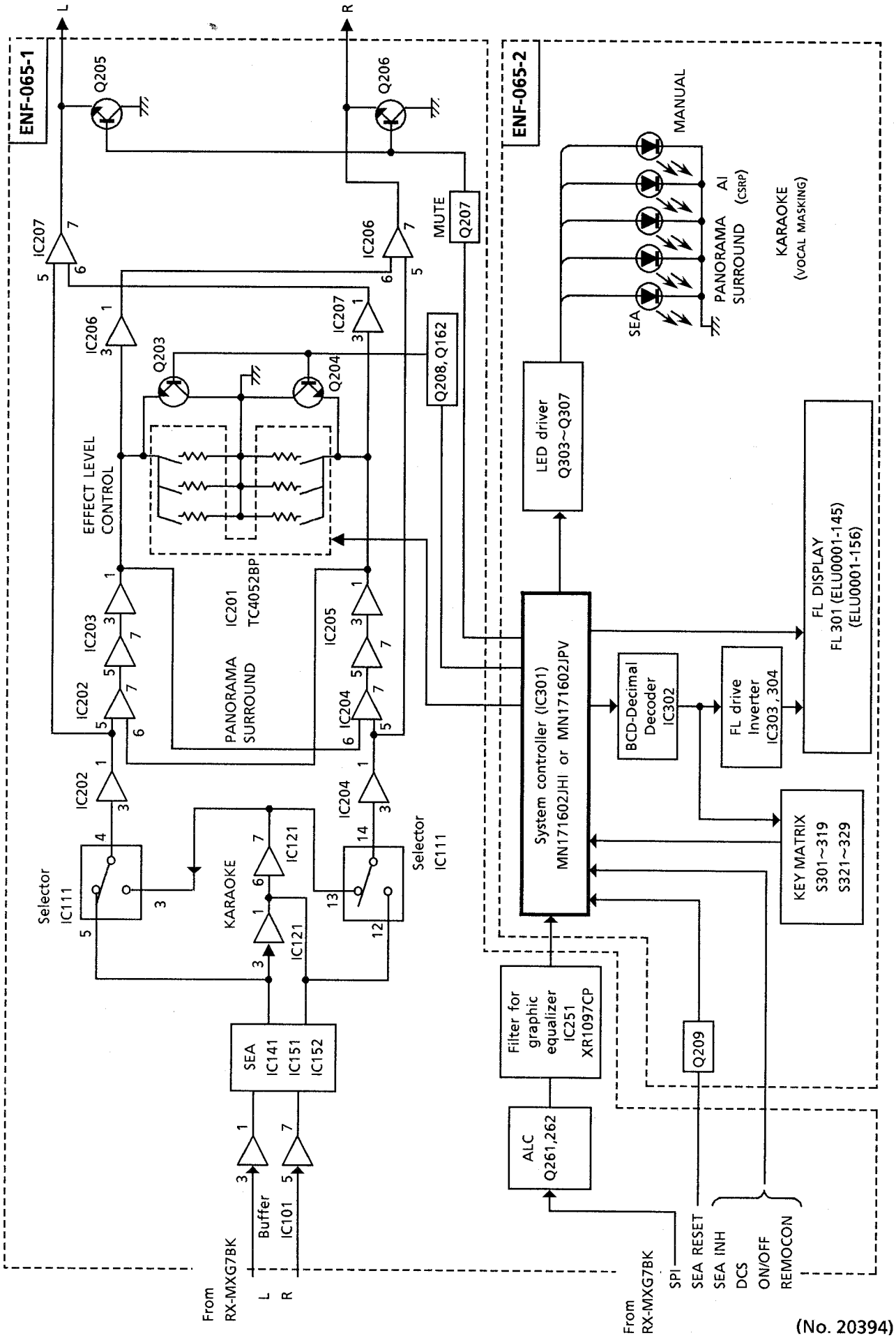
1. The design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (⚠) on the Parts List in the Service Manual. The use of a substitute repalcement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.
5. Leakage currnet check (Electrical shock hazard testing)
   After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, contorl shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.
   Do not use a line isolation transformer during this check.
   - Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.).
   - Alternate check method
     Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500Ω 10 W resistor paralleled by a 0.15 μF AC-type capacitor between an exposed metal part and a known good earth ground.
     Measure the AC voltage across the resistor with the AC voltmeter.
     Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and meausre the AC voltage across the resistor.
     Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).




## Warning

1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

# Block Diagram

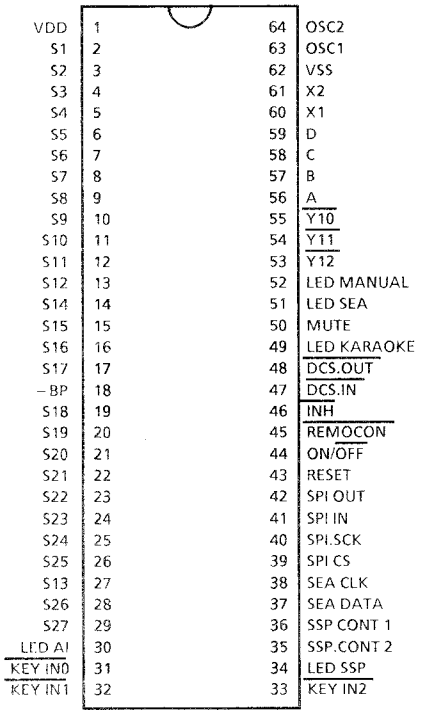


# Description of ICs

## ■MN171602JHI (IC301) : System controller

MN171602JPV is for universal and Taiwan versions, and the same layout as MN171602JHI.

### 1.Terminal Layout




### 2.Key matrix

| | KEY IN0 | KEY IN1 | KEY IN2 |
|---|---|---|---|
| $\overline{Y0}$ | – | MANU | – |
| $\overline{Y1}$ | AI | PROG | PERSONAL |
| $\overline{Y2}$ | KARAOKE | FLAT | BGM |
| $\overline{Y3}$ | SEA | DISPLAY | RELAX |
| $\overline{Y4}$ | SURROUND | DEMO | EXCITE |
| $\overline{Y5}$ | GAME | <f | ROCK/A |
| $\overline{Y6}$ | CHURCH | LEVEL – | POPS/B |
| $\overline{Y7}$ | CINEMA | LEVEL + | CLASSIC/C |
| $\overline{Y8}$ | HALL | f> | CAR/D |
| $\overline{Y9}$ | DISCO | MEMORY | H.PHONE/E |

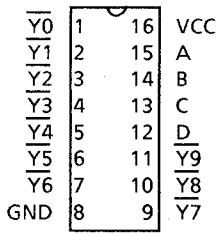
$\overline{Y0}$~$\overline{Y9}$ are the outputs of the shift register IC302.

### 3.Terminal Description

| Pin NO. | Symbol | I/O | Function | Pin NO. | Symbol | I/O | Function |
|---|---|---|---|---|---|---|---|
| 1 | VDD | -- | Power supply | 33 | KEY IN2 | I | Key matrix input |
| 2 | S1 | O | Segment control | 34 | LED SSP | O | Indication control for 'PANORAMA' |
| 3 | S2 | O | Segment control | 35 | SSP CONT2 | O | Control for 'PANORAMA SURROUND' |
| 4 | S3 | O | Segment control | 36 | SSP CONT1 | O | Control for 'PANORAMA SURROUND' |
| 5 | S4 | O | Segment control | 37 | SEA DATA | O | Data for sea |
| 6 | S5 | O | Segment control | 38 | SEA CLK | O | Clock for data transmission |
| 7 | S6 | O | Segment control | 39 | SPI CS | O | Chip select signal |
| 8 | S7 | O | Segment control | 40 | SPI SCK | O | Clock for data transmission to ic251 |
| 9 | S8 | O | Segment control | 41 | SPI IN | I | SPI data from ic251 |
| 10 | S9 | O | Segment control | 42 | SPI OUT | O | Control data for ic251 |
| 11 | S10 | O | Segment control | 43 | RESET | I | Reset signal |
| 12 | S11 | O | Segment control | 44 | ON/OFF | I | H : power on |
| 13 | S12 | O | Segment control | 45 | REMOCON | I | Remote control signal input |
| 14 | S14 | O | Segment control | 46 | INH | I | Inhibit signal input |
| 15 | S15 | O | Segment control | 47 | DCS.IN | I | Compulink signal input |
| 16 | S16 | O | Segment control | 48 | DCS.OUT | O | Compulink signal output |
| 17 | S17 | O | Segment control | 49 | LED KARA. | O | Indication control for 'KARAOKE' |
| 18 | -BP | -- | Power supply for fl display | 50 | MUTE | O | H : Source direct on |
| 19 | S18 | O | Segment control | 51 | LED SEA | O | Indication control for 'SEA' |
| 20 | S19 | O | Segment control | 52 | LED MANUAL | O | Indication control for 'MANUAL' |
| 21 | S20 | O | Segment control | 53 | Y12 | O | Indication control for fl display |
| 22 | S21 | O | Segment control | 54 | Y11 | O | Indication control for fl display |
| 23 | S22 | O | Segment control | 55 | Y10 | O | Indication control for fl display |
| 24 | S23 | O | Segment control | 56 | A | O | Grid control/Key matrix output |
| 25 | S24 | O | Segment control | 57 | B | O | Grid control/Key matrix output |
| 26 | S25 | O | Segment control | 58 | C | O | Grid control/Key matrix output |
| 27 | S13 | O | Segment control | 59 | D | O | Grid control/Key matrix output |
| 28 | S26 | O | Segment control | 60 | X1 | -- | Connected to GND |
| 29 | S27 | O | Segment control | 61 | X2 | -- | Non connection |
| 30 | LED AI | O | Indication control for 'AI' | 62 | VSS | -- | GND |
| 31 | KEY IN0 | I | Key matrix input | 63 | OSC1 | -- | Oscillation terminal |
| 32 | KEY IN1 | I | Key matrix input | 64 | OSC2 | -- | Oscillation terminal |

## ■ TC74HC42AP(IC302): BCD-Decimal code decoder

1.Terminal Layout

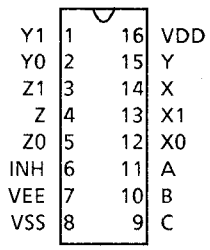



2.Function Table

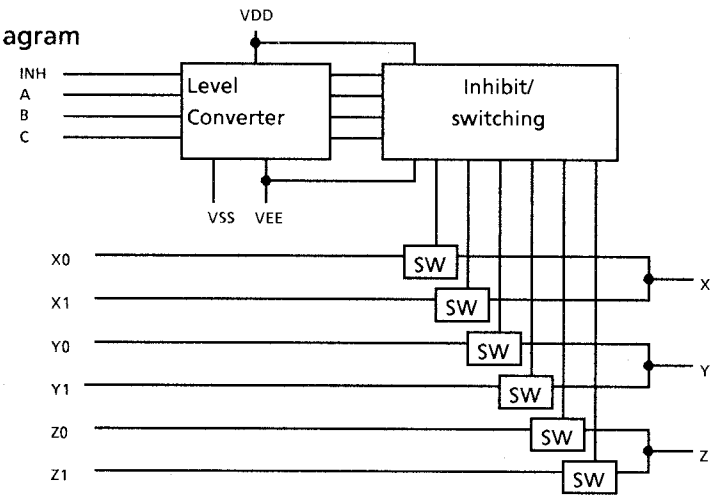
| Code NO | BCD input | | | | Decimal code output | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | D | C | B | A | $\overline{Y0}$ | $\overline{Y1}$ | $\overline{Y2}$ | $\overline{Y3}$ | $\overline{Y4}$ | $\overline{Y5}$ | $\overline{Y6}$ | $\overline{Y7}$ | $\overline{Y8}$ | $\overline{Y9}$ |
| 0 | L | L | L | L | L | H | H | H | H | H | H | H | H | H |
| 1 | L | L | L | H | H | L | H | H | H | H | H | H | H | H |
| 2 | L | L | H | L | H | H | L | H | H | H | H | H | H | H |
| 3 | L | L | H | H | H | H | H | L | H | H | H | H | H | H |
| 4 | L | H | L | L | H | H | H | H | L | H | H | H | H | H |
| 5 | L | H | L | H | H | H | H | H | H | L | H | H | H | H |
| 6 | L | H | H | L | H | H | H | H | H | H | L | H | H | H |
| 7 | L | H | H | H | H | H | H | H | H | H | H | L | H | H |
| 8 | H | L | L | L | H | H | H | H | H | H | H | H | L | H |
| 9 | H | L | L | H | H | H | H | H | H | H | H | H | H | L |
| — | H | × | H | × | H | H | H | H | H | H | H | H | H | H |
| — | H | H | × | × | H | H | H | H | H | H | H | H | H | H |

## ■ BU4053B(IC111): 2CH -Multiplexer

1.Terminal Layout




2.Internal Block Diagram

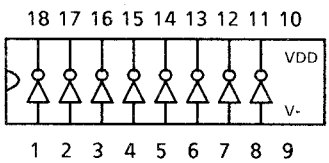



3.Function Table

| Control input | | | | ON channel |
|---|---|---|---|---|
| INH | C | B | A | |
| L | L | L | L | Z0, Y0, X0 |
| L | L | L | H | Z0, Y0, X1 |
| L | L | H | L | Z0, Y1, X0 |
| L | L | H | H | Z0, Y1, X1 |
| L | H | L | L | Z1, Y0, X0 |
| L | H | L | H | Z1, Y0, X1 |
| L | H | H | L | Z1, Y1, X0 |
| L | H | H | H | Z1, Y1, X1 |
| H | × | × | × | NONE |

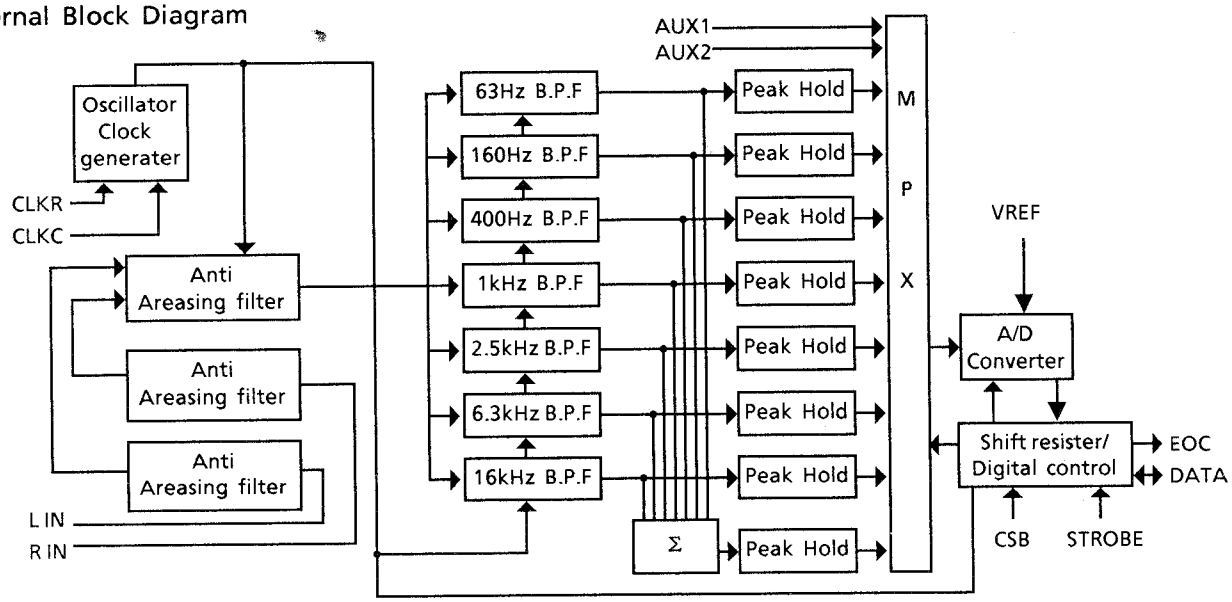
## ■ AN6873N(IC303, 304): Inverter for FL drive

Terminal Layout

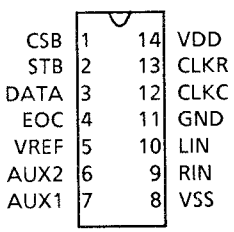


## ■XR1097CP (IC251) : 7-channel graphic equalizer filter with A/D converter

### 1.Internal Block Diagram




### 2.Terminal Layout

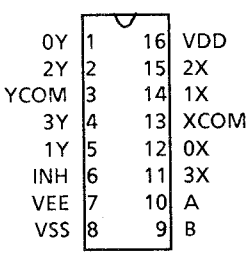



### 3.Terminal Description

| Pin No | Symbol | I/O | Function | Pin No | Symbol | I/O | Function |
|---|---|---|---|---|---|---|---|
| 1 | CSB | I | Chip select | 8 | VSS | -- | −5V |
| 2 | STB | I | Strobe signal | 19 | RIN | I | Sound signal input |
| 3 | DATA | I/O | Data input / output | 10 | LIN | I | Non connection |
| 4 | EOC | -- | Not used | 11 | GND | -- | GND |
| 5 | VREF | I | A/D converter reference voltage | 12 | CLKC | -- | A capacitor is connected |
| 6 | AUX2 | I | Non connection | 13 | CLKR | -- | A resister is connected |
| 7 | AUX1 | I | Non connection | 14 | VDD | -- | +5V |

## ■TC4052BP(IC201) : Multiplexer

### 1.Terminal Layout

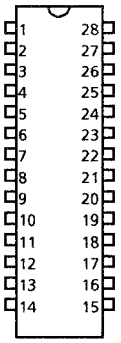



### 2.Function Table

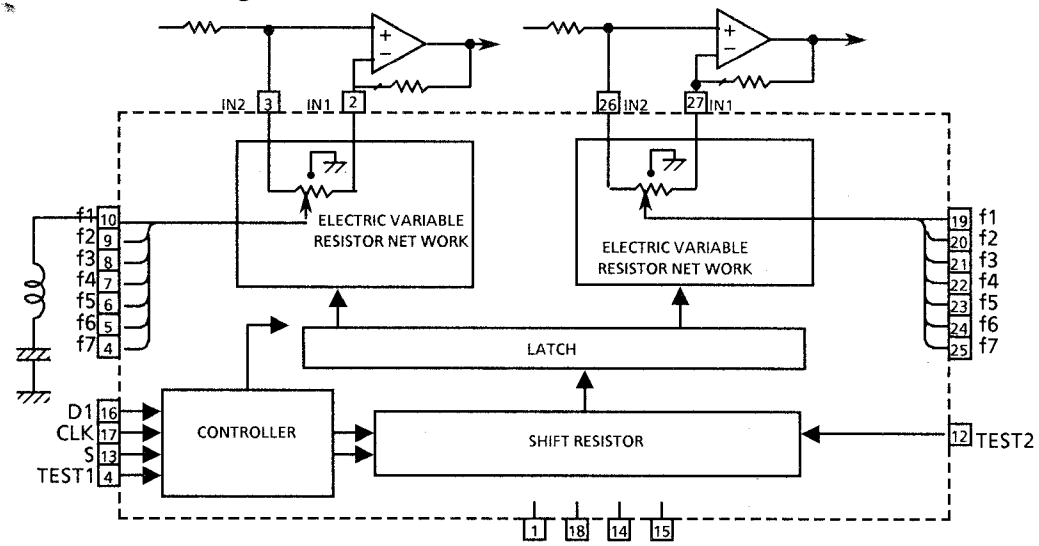
| Control input | | | ON channel |
|---|---|---|---|
| INH | B | A | |
| L | L | L | 0X, 0Y |
| L | L | H | 1X, 1Y |
| L | H | L | 2X, 2Y |
| L | H | H | 3X, 3Y |
| H | -- | -- | NONE |

## ■ LC7522 (IC141) : Variable Resistor for SEA Control

1. Terminal Layout




2.Internal Block Diagram

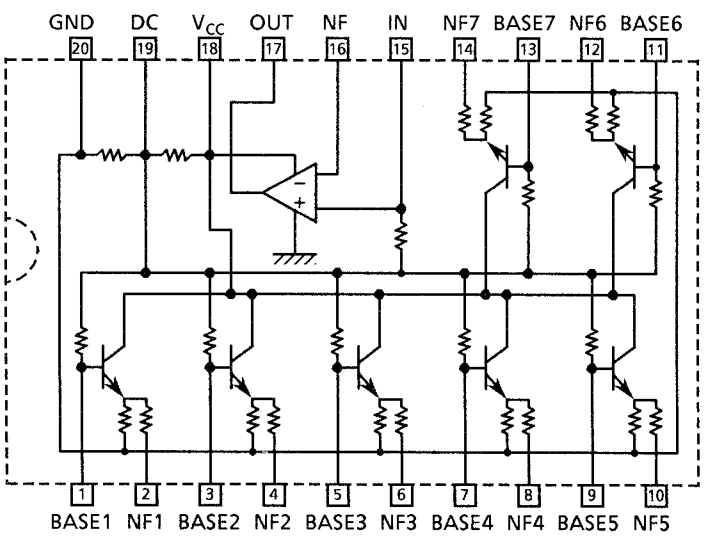



3. Terminal Description

| Pin No. | Pin Name | Functions |
|---|---|---|
| 1<br>18<br>14<br>15 | $V_{DD}$<br>VSS<br>VEE<br>VCC | Power supply +7V for audio signal<br>Ground.<br>Power supply −7V for audio signal.<br>Power supply +5V |
| 2,27<br>3, 26 | IN 1<br>IN 2 | Audio signal input<br>The inversion signal of the operational amplifier inputs to IN 1 normally.<br>The non-inversion signal of the operational amplifier inputs to IN 2 normally. |
| 16 | SDA | Data input from the CPU. Schmitt inverter type |
| 17 | SCK | Clock signal input from the CPU. Schmitt inverter type |
| 4~10<br>19~25 | f1~f7 | For connecting to band-pass filter. f1~f7x2 (Left and Right) |
| 11<br>12 | TEST 1<br>TEST 2 | Not used<br>Not used |
| 13 | S | Chip Select |
| 28 | NC | Not used |

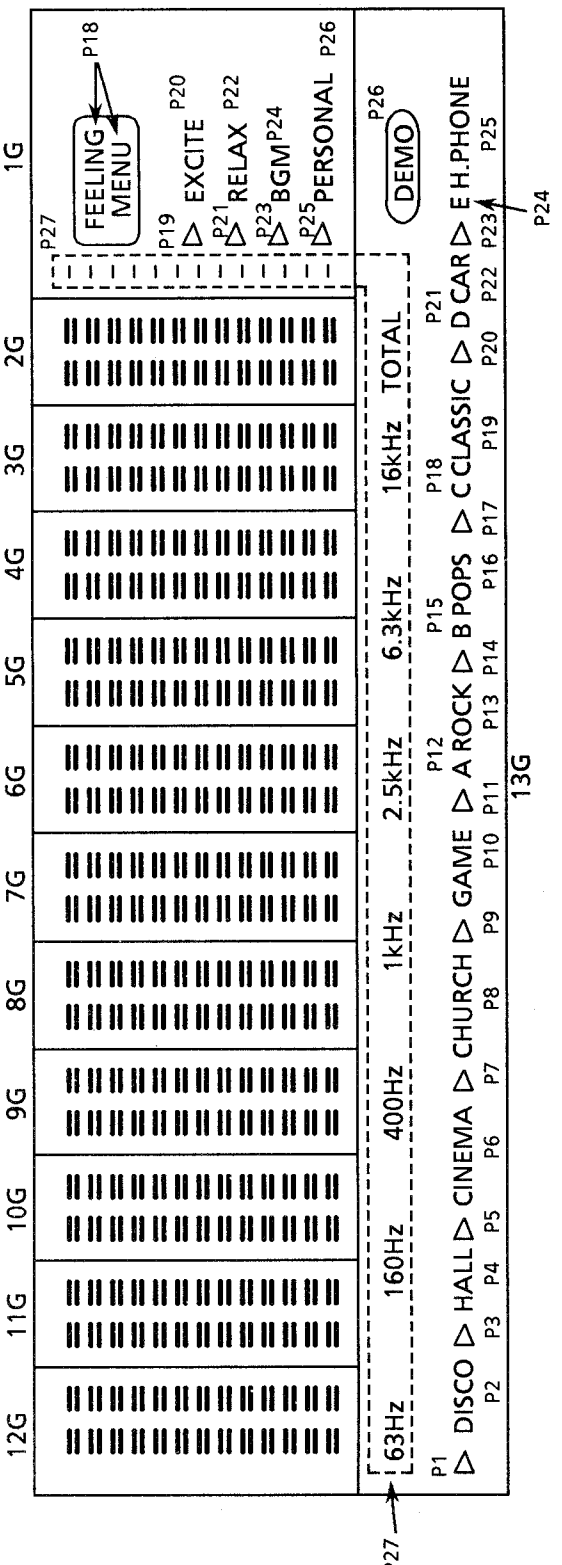
## ■ LA3607S (IC151,152) :S.E.A. Graphic Equalizer

It makes inductive characteristic instead of coil.



# Internal Connection of FL Display

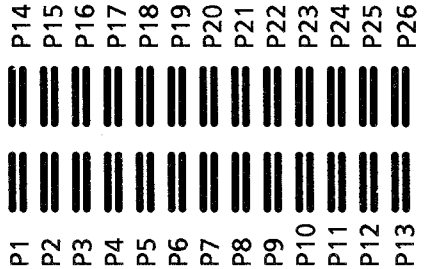
■ FL301 : ELU0001-145 ( For Universal and Taiwan versions)



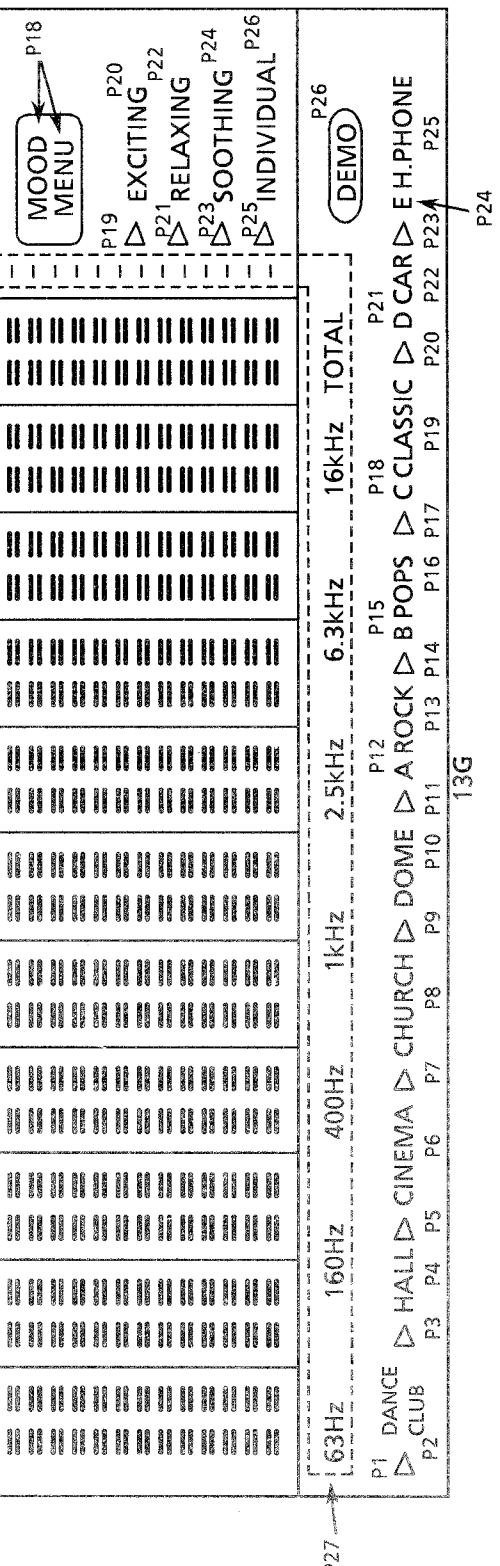

Terminal connection

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Terminal No | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | | |
| Electrode | F1 | F1 | F1 | NP | 12G | 11G | 10G | 9G | 8G | 7G | 6G | NP | NP | 5G | 4G | 3G | 2G | 1G | 13G | | |
| Terminal No | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | |
| Electrode | NP | NP | NP | NP | NP | NP | NP | P | P | P | P | P | P | P | P | P | P | P | P | P | |
| | | | | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | |
| Terminal No | | | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | |
| Electrode | | | P | P | P | P | P | P | P | P | P | P | P | P | P | P | NP | F2 | F2 | F2 | |
| | | | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | | | | | |

Notes F : Filament G : Grid P : Anode NP : No Pin



## ■ FL301 : ELU0001-156 ( Except Universal and Taiwan versions)





Terminal connection

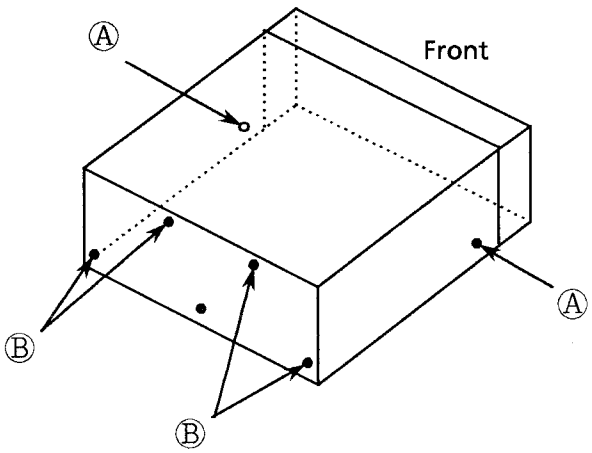
| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Terminal No | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | |
| Electrode | F1 | F1 | F1 | NP | 12G | 11G | 10G | 9G | 8G | 7G | 6G | NP | NP | 5G | 4G | 3G | 2G | 1G | 13G | |
| Terminal No | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 |
| Electrode | NP | NP | NP | NP | NP | NP | NP | P | P | P | P | P | P | P | P | P | P | P | P | P |
| | | | | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| Terminal No | | | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 |
| Electrode | | | P | P | P | P | P | P | P | P | P | P | P | P | P | P | NP | F2 | F2 | F2 |
| | | | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | | | | |

Notes F : Filament G : Grid P : Anode NP : No Pin

# Disassembly Procedures

■ Removing the metal cover

1. Remove the 2 screws Ⓐ fastening the both sides of the metal cover and 4 screws Ⓑ fixing the back of the cover to remove the cover.

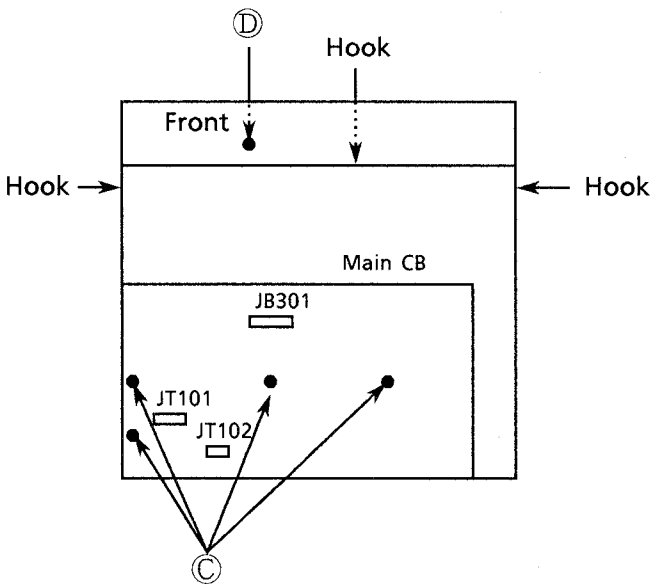



■ Removing the front panel assembly

1. Remove the metal cover.
2. Remove the screw Ⓓ and release the 3 hooks to remove the assembly. (If necessary, disconnect the connectors.)

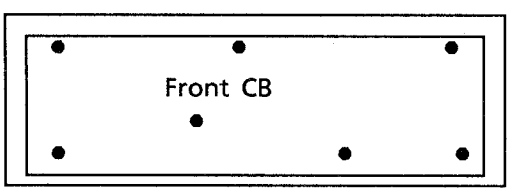
■ Removing the main circuit board

1. Disconnect the connectors JT101, JT102 and JB301.
2. Remove the 4 screws Ⓒ to remove the circuit board.




■ Removing the front circuit board

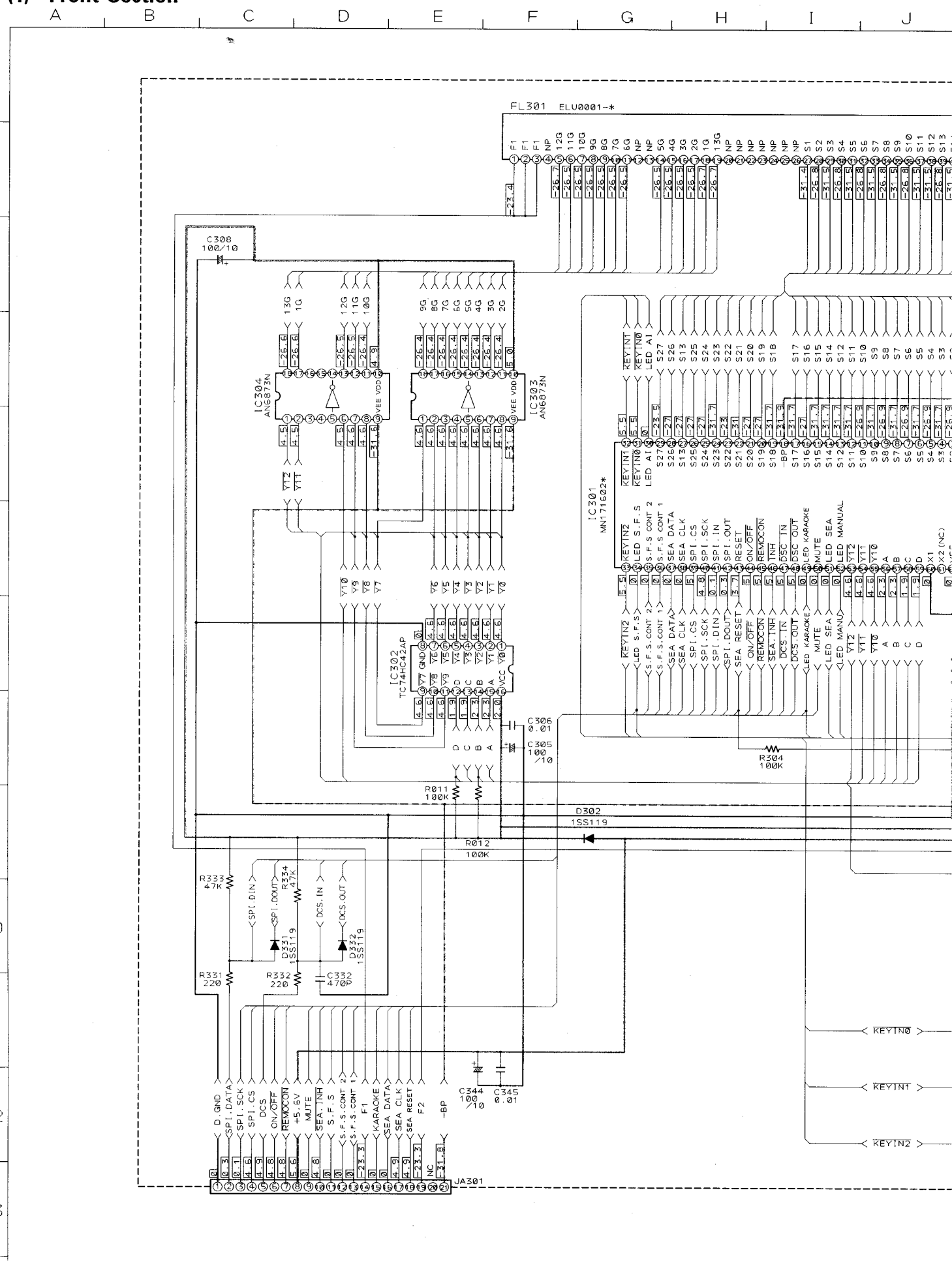
1. Remove the front panel assembly.
2. Remove the 7 screws fixng the circuit board to remove the circuit board.



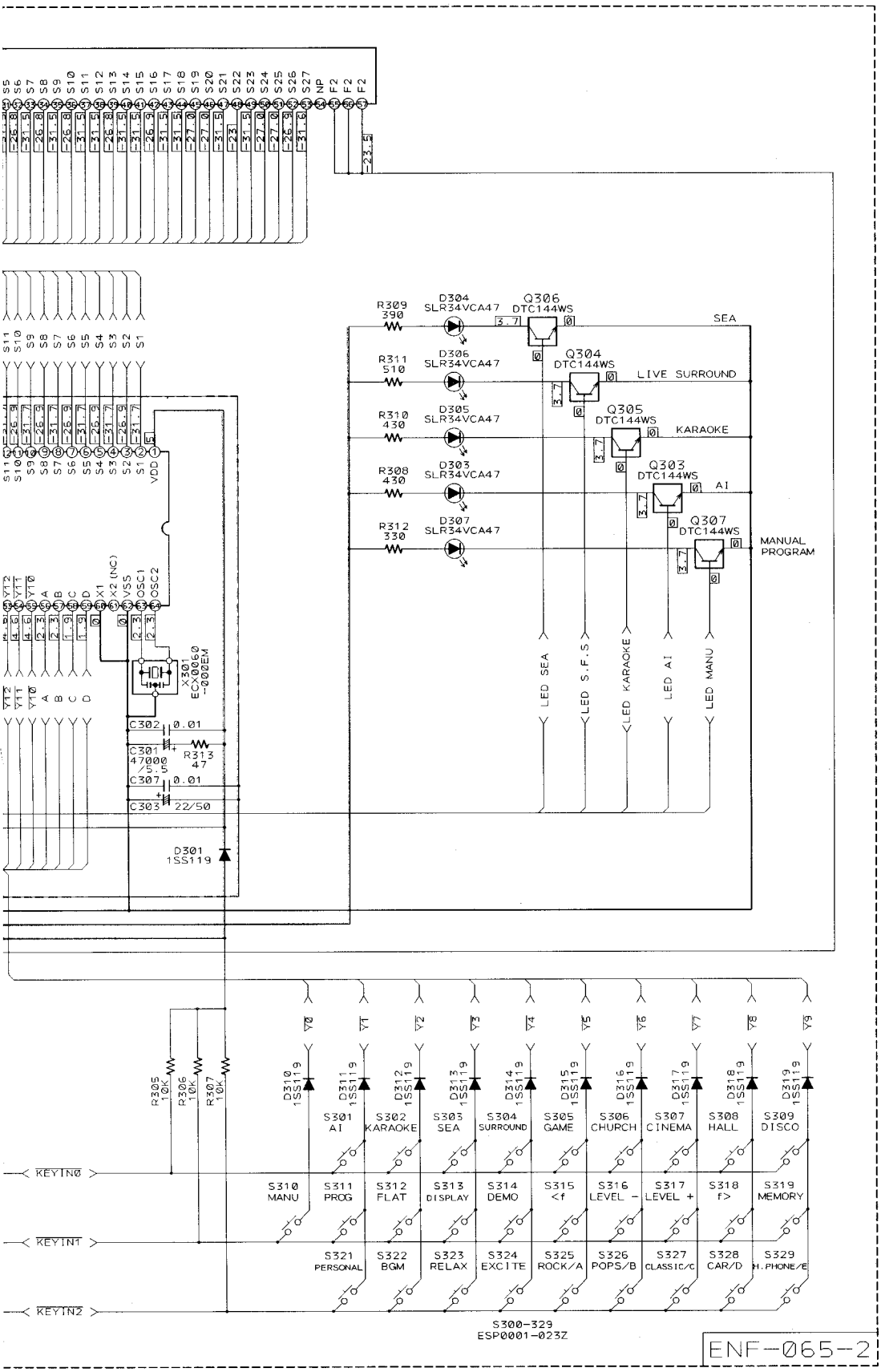

Front panel assembly

# Schematic Diagrams

## (1) Front Section



J K L M N O P Q R S T



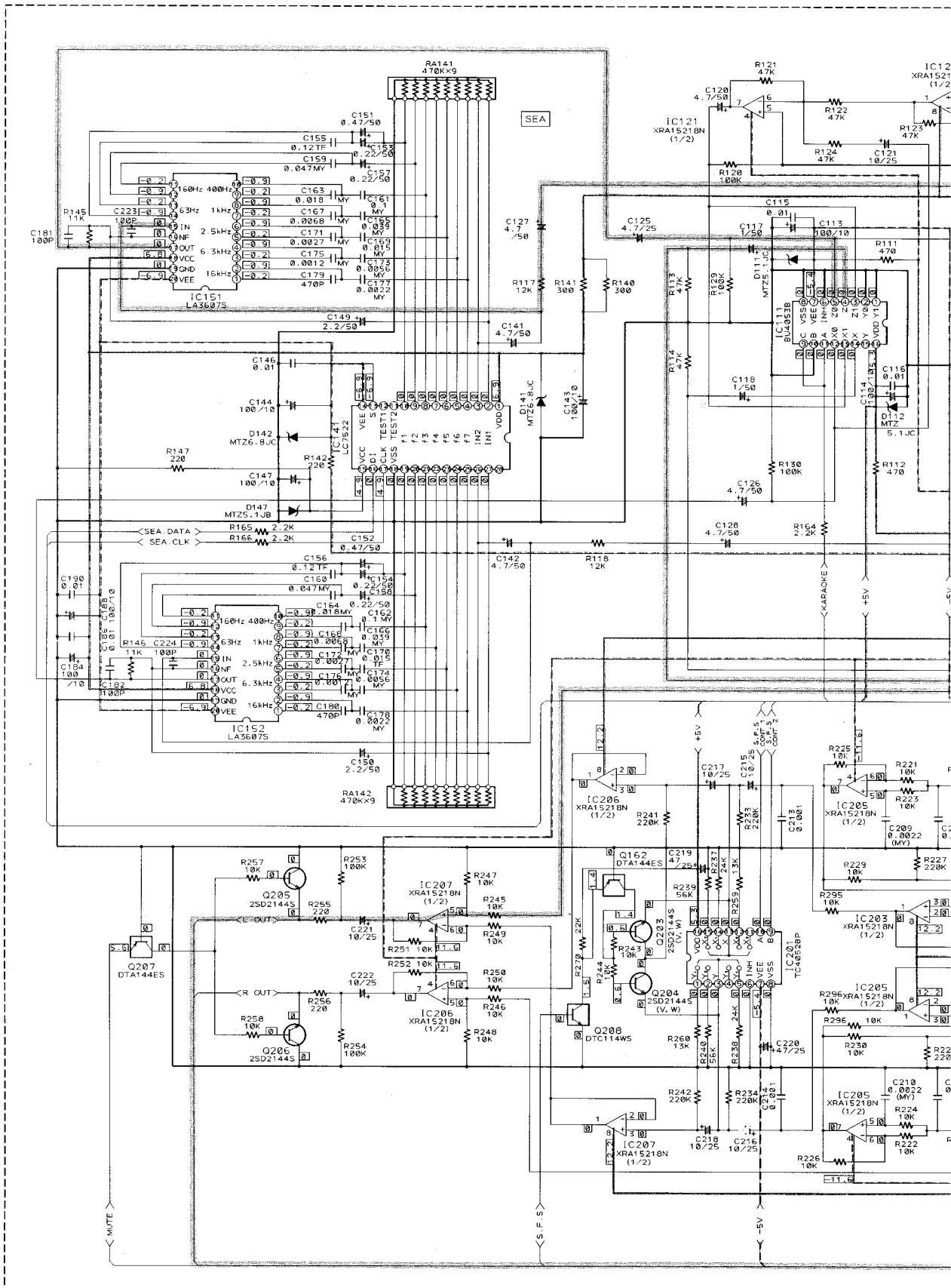

* MARK

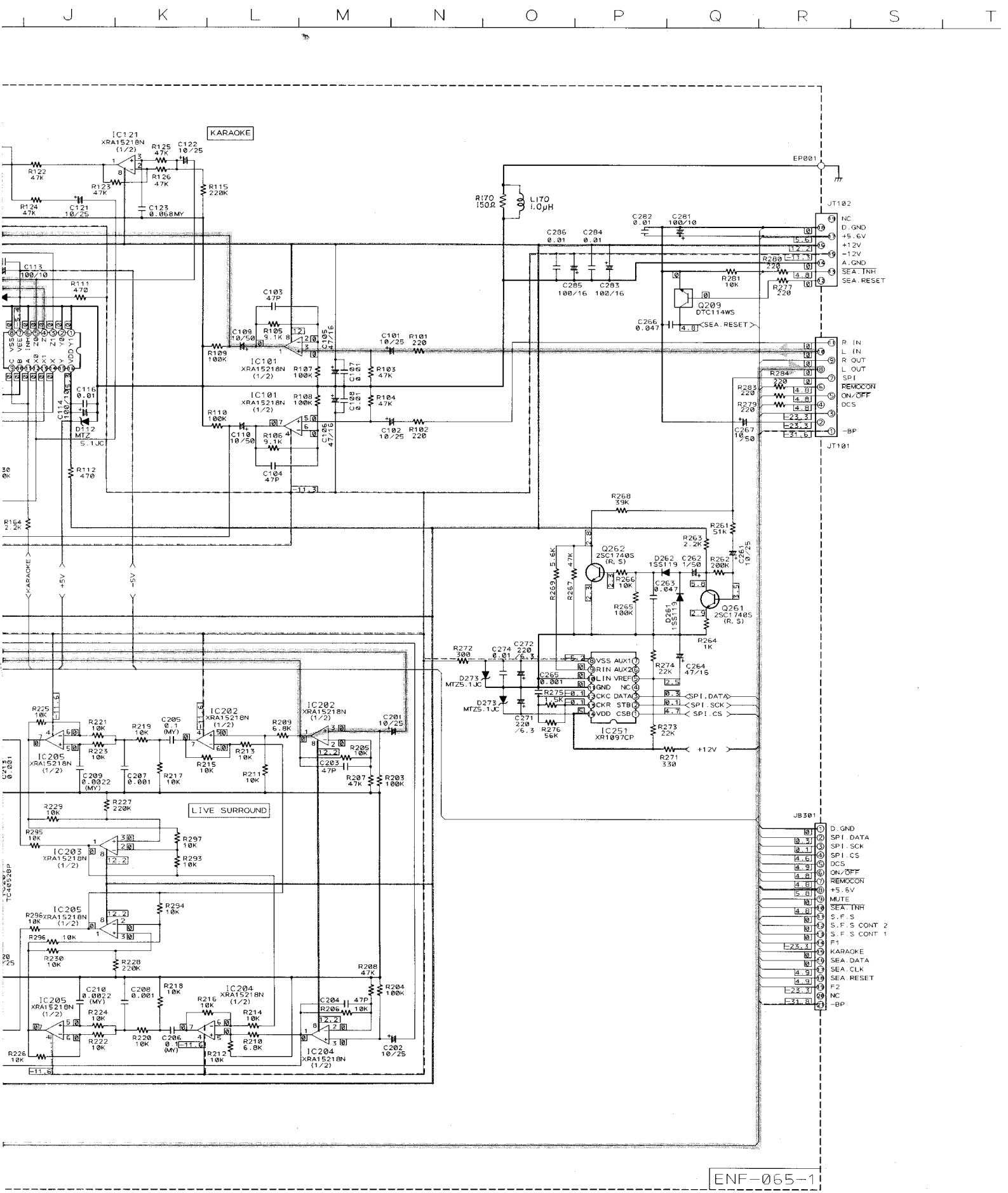
| VERSION | Universal, Taiwan | Except Universal, Taiwan |
|---|---|---|
| IC301 | MN171602JPV | MN171602JHI |
| FL301 | ELU0001-145 | ELU0001-156 |

**Notes:**

1. ——— indicates +B power supply.
2. - - - - - indicates –B power supply.
3. ▒▒▒ indicates main signal path.
4. When replacing the parts in the shaded area ( ▒▒▒ ) and those marked with ⚠, be sure to use the designated parts to ensure safety.
   This is the standard circuit diagram.
5. The design and contents are subject to change without notice.

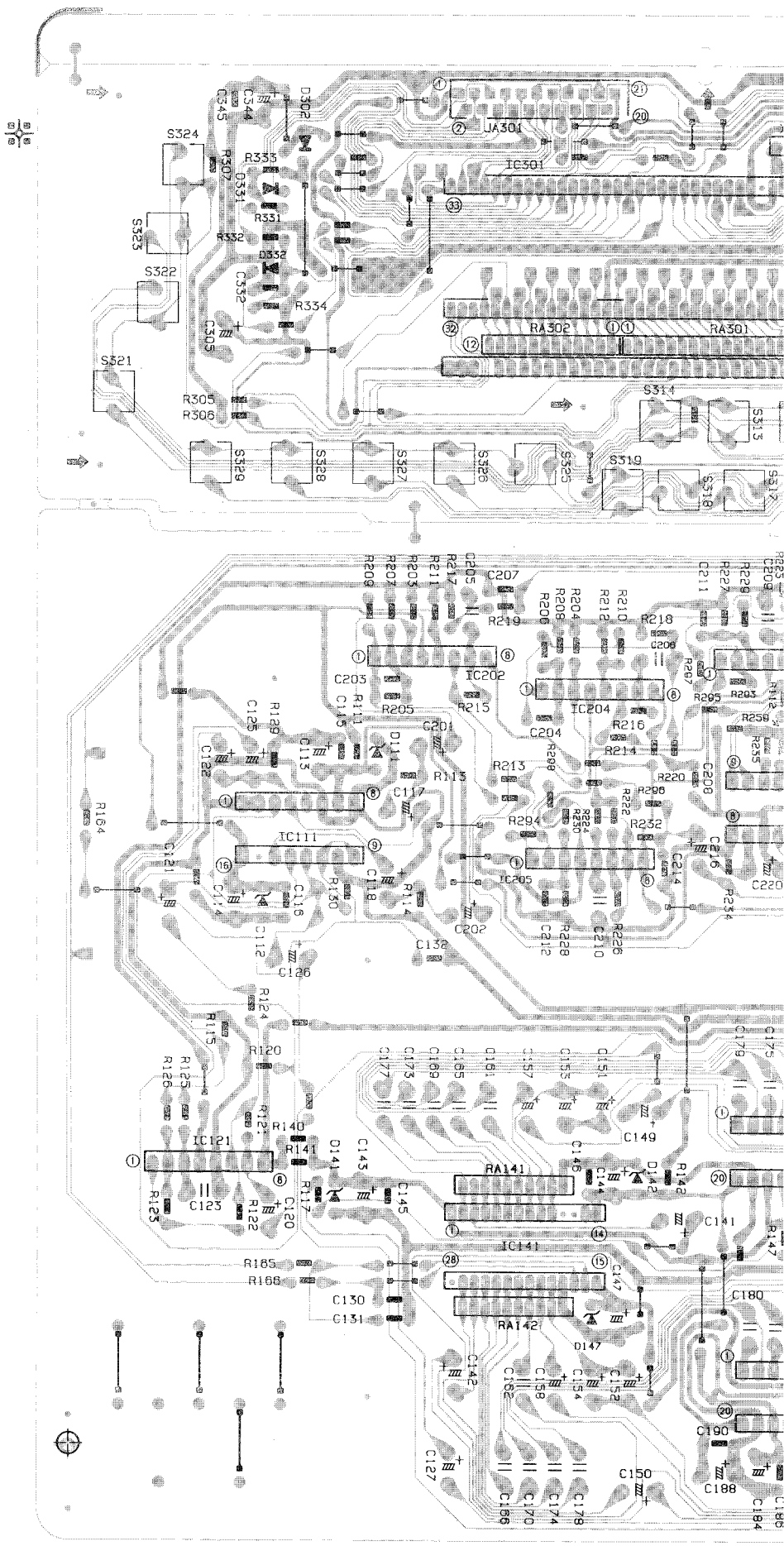
## (2) Signal Processing Section

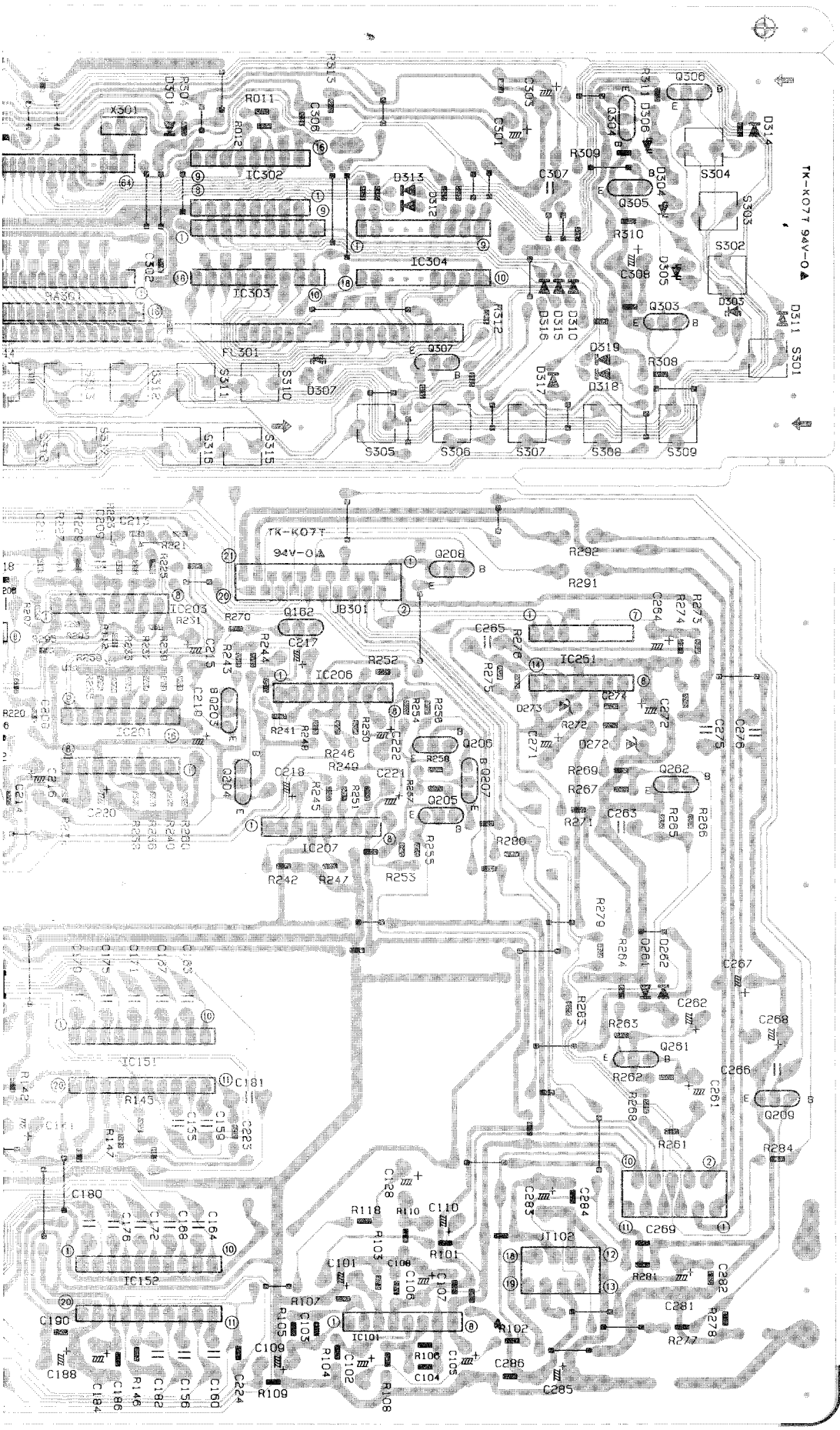



J K L M N O P Q R S T
KARAOKE
LIVE SURROUND
EP001
JT102
JT101
JB301
IC121 XRA15218N (1/2)
IC101 XRA15218N (1/2)
IC202 XRA15218N (1/2)
IC205 XRA15218N (1/2)
IC203 XRA15218N (1/2)
IC204 XRA15218N (1/2)
IC251 XR1097CP
Q209 DTC114WS
Q262 2SC1740S (R, S)
Q261 2SC1740S (R, S)
D112 MTZ 5.1JC
D273 MTZ5.1JC
D262 1SS119
D261 1SS119
NC
D.GND
+5.6V
+12V
-12V
A.GND
SEA.INH
SEA.RESET
R IN
L IN
R OUT
L OUT
SPI
REMOCON
ON/OFF
DCS
-BP
VSS AUX1
RIN AUX2
LIN VREF
GND NC
CKC DATA
CKR STB
VDD CSB
SPI.DATA
SPI.SCK
SPI.CS
+12V
S.F.S
S.F.S CONT 2
S.F.S CONT 1
F1
KARAOKE
SEA.DATA
SEA.CLK
SEA.RESET
F2
ENF-065-1

# Printed Circuit Board

## ■ Main & Front CB (ENF-065)




TK-K077 94V-0▲
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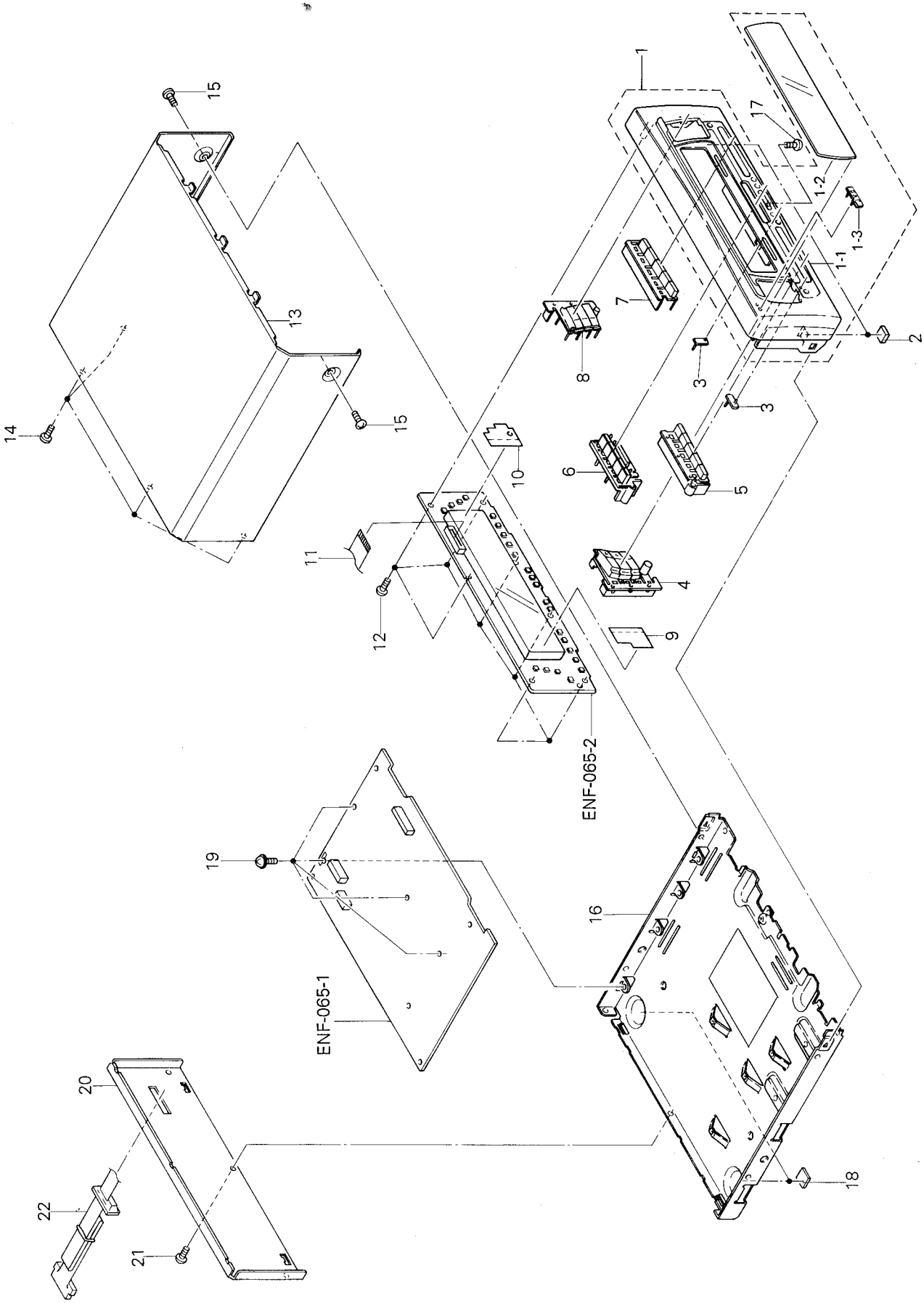
# PARTS LIST

**Note : All printed circuit boards and its assemblies are not available as service parts.**

## Contents

# General Exploded View and Parts List



## Parts List

| ⚠ | Item | Part Number | Part Name | Q'ty | Description | Areas |
|---|---|---|---|---|---|---|
| | 1 | EFP-SEMXG7BKE(S | FRONT PANEL ASSY | 1 | | A |
| | | EFP-SEMXG7BKE(S | FRONT PANEL ASSY | 1 | | BS |
| | | EFP-SEMXG7BKE(S | FRONT PANEL ASSY | 1 | | EF |
| | | EFP-SEMXG7BKE(S | FRONT PANEL ASSY | 1 | | EN |
| | | EFP-SEMXG7BKE(S | FRONT PANEL ASSY | 1 | | G |
| | | EFP-SEMXG7BKE(S | FRONT PANEL ASSY | 1 | | GI |
| | | EFP-SEMXG7BKU(S | FRONT PANEL ASSY | 1 | | U |
| | | EFP-SEMXG7BKU(S | FRONT PANEL ASSY | 1 | | UT |
| | 1-1 | E102628-005 | FRONT PANEL | 1 | | A |
| | | E102628-005 | FRONT PANEL | 1 | | BS |
| | | E102628-005 | FRONT PANEL | 1 | | EF |
| | | E102628-005 | FRONT PANEL | 1 | | EN |
| | | E102628-005 | FRONT PANEL | 1 | | G |
| | | E102628-005 | FRONT PANEL | 1 | | GI |
| | | E102628-006 | FRONT PANEL | 1 | | U |
| | | E102628-006 | FRONT PANEL | 1 | | UT |
| | 1-2 | E207611-004 | WINDOW SCREEN | 1 | | |
| | 1-3 | E406971-221 | JVC MARK | 1 | | |
| | 2 | E406855-008 | SPACER | 2 | FRONT FOOT | |
| | 3 | E406673-001 | INDICATOR | 2 | | |
| | 4 | E207613-003 | PUSH BUTTON ASSY | 1 | | A |
| | | E207613-003 | PUSH BUTTON ASSY | 1 | | BS |
| | | E207613-003 | PUSH BUTTON ASSY | 1 | | EF |
| | | E207613-003 | PUSH BUTTON ASSY | 1 | | EN |
| | | E207613-003 | PUSH BUTTON ASSY | 1 | | G |
| | | E207613-003 | PUSH BUTTON ASSY | 1 | | GI |
| | | E207613-002 | PUSH BUTTON ASSY | 1 | | U |
| | | E207613-002 | PUSH BUTTON ASSY | 1 | | UT |
| | 5 | E207618-003 | PUSH BUTTON | 1 | | A |
| | | E207618-003 | PUSH BUTTON | 1 | | BS |
| | | E207618-003 | PUSH BUTTON | 1 | | EF |
| | | E207618-003 | PUSH BUTTON | 1 | | EN |
| | | E207618-003 | PUSH BUTTON | 1 | | G |
| | | E207618-003 | PUSH BUTTON | 1 | | GI |
| | | E207618-002 | PUSH BUTTON | 1 | | U |
| | | E207618-002 | PUSH BUTTON | 1 | | UT |
| | 6 | E207622-003 | PUSH BUTTON | 1 | | |
| | 7 | E207620-002 | PUSH BUTTON | 1 | | |
| | 8 | E207616-003 | PUSH BUTTON | 1 | | A |
| | | E207616-003 | PUSH BUTTON | 1 | | BS |
| | | E207616-003 | PUSH BUTTON | 1 | | EF |
| | | E207616-003 | PUSH BUTTON | 1 | | EN |
| | | E207616-003 | PUSH BUTTON | 1 | | G |
| | | E207616-003 | PUSH BUTTON | 1 | | GI |
| | | E207616-002 | PUSH BUTTON | 1 | | U |
| | | E207616-002 | PUSH BUTTON | 1 | | UT |
| | 9 | E407420-001 | SPACER | 1 | | |
| | 10 | E407421-001 | SPACER | 1 | | |
| | 11 | E407363-002 | FLAT WIRE | 1 | | |
| | 12 | SDSF2608Z | SCREW | 7 | | |

| ⚠ | Item | Part Number | Part Name | Q'ty | Description | Areas |
|---|---|---|---|---|---|---|
| | 13 | E207626-001 | METAL COVER | 1 | | |
| | 14 | E73273-003 | SPECIAL SCREW | 4 | | |
| | 15 | SDSG3008M | SCREW | 2 | | |
| | 16 | E102462-001 | CHASSIS BASE | 1 | | |
| | 17 | E74304-001 | SCREW | 1 | | |
| | 18 | E406855-005 | SPACER | 2 | REAR FOOT | |
| | 19 | GBSG3008CC | SCREW | 4 | | |
| | 20 | E207624-004 | REAR PANEL | 1 | | A |
| | | E207624-004 | REAR PANEL | 1 | | BS |
| | | E207624-004 | REAR PANEL | 1 | | EF |
| | | E207624-004 | REAR PANEL | 1 | | EN |
| | | E207624-004 | REAR PANEL | 1 | | G |
| | | E207624-004 | REAR PANEL | 1 | | GI |
| | | E207624-003 | REAR PANEL | 1 | | U |
| | | E207624-003 | REAR PANEL | 1 | | UT |
| | 21 | SBSG3008CC | SCREW | 1 | | |
| | 22 | EWP902-032 | FLAT WIRE ASSY | 1 | | |
| | — | E61029-005 | NUMBER LABEL | 1 | | |

⚠ SAFETY PARTS

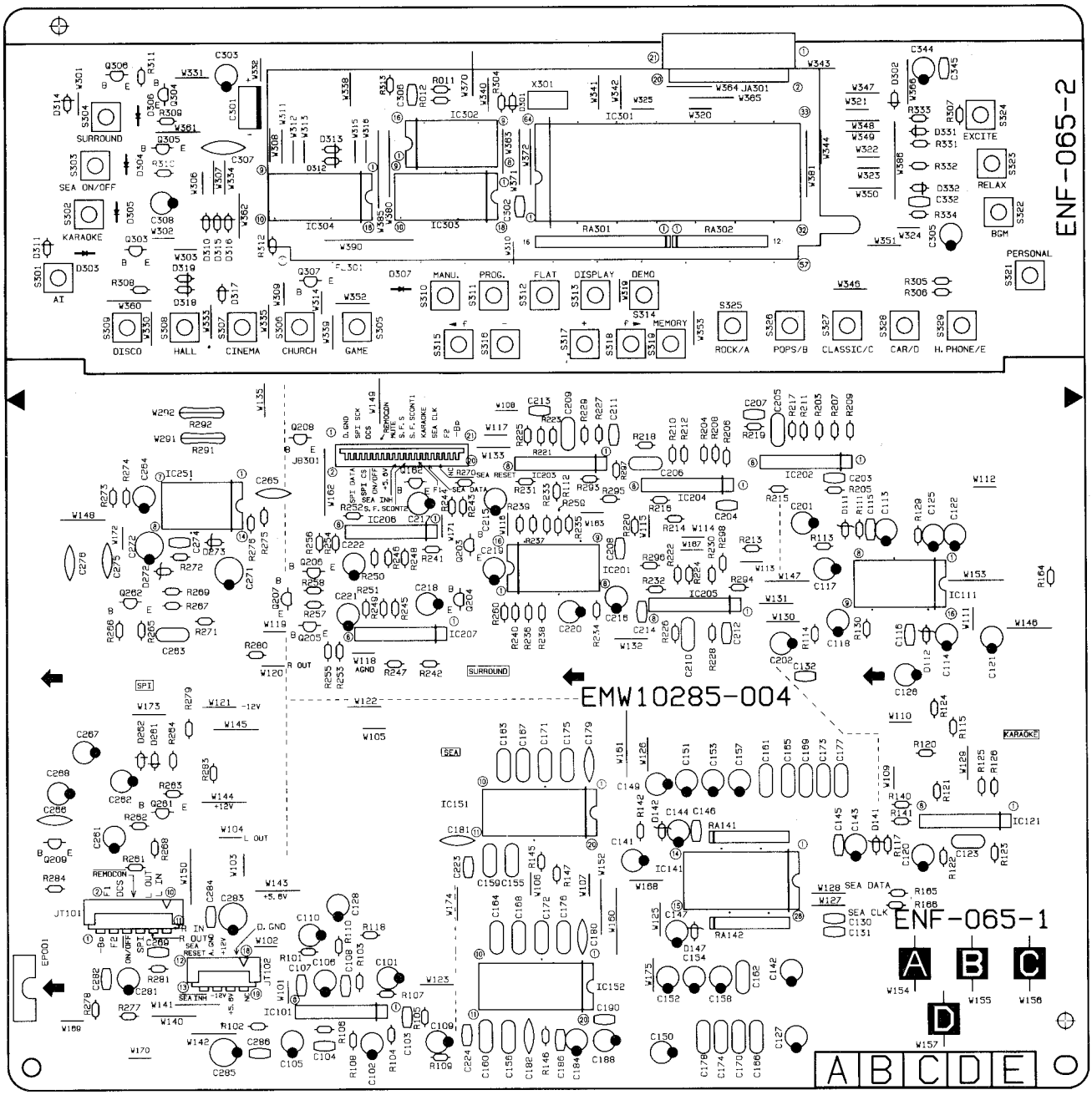
**The Marks for Designated Areas**

| | | | | | |
|---|---|---|---|---|---|
| A ..... | Australia | EN .... | Scandinavia | EF .... | Continental Europe |
| BS .... | the U.K. | G ..... | Germany | GI .... | Itary |
| UT .... | Taiwan | U ..... | Universal | **No mark indicates all areas.** | |

# Printed Circuit Board Ass'y and Parts List

## ■ENF-065☐ Main & Front PC Board Ass'y

**Note :** ENF-065 ☐ varies according to the areas employed. See note (1) when placing an order.




Note (1)

| PC Board Ass'y | Designated Areas |
|---|---|
| ENF-065 B | Australia , the U.K.<br>Scandinavia<br>Continental Europe |
| ENF-065 C | Germany , Italy |
| ENF-065 D | Taiwan , Universal Type |

**Transistors**

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|---|---|---|---|
| | Q162 | DTA144ES | SILICON ROHM | |
| | Q203 | 2SD2144S(VW) | SILICON ROHM | |
| | Q204 | 2SD2144S(VW) | SILICON ROHM | |
| | Q205 | 2SD2144S(VW) | SILICON ROHM | |
| | Q206 | 2SD2144S(VW) | SILICON ROHM | |
| | Q207 | DTA144ES | SILICON ROHM | |
| | Q208 | DTC114WS | SILICON | |
| | Q209 | DTC114WS | SILICON | |
| | Q261 | 2SC1740S(R,S) | SILICON ROHM | |
| | Q262 | 2SC1740S(R,S) | SILICON ROHM | |
| | Q303 | DTC114WS | SILICON | |
| | Q304 | DTC114WS | SILICON | |
| | Q305 | DTC114WS | SILICON | |
| | Q306 | DTC114WS | SILICON | |
| | Q307 | DTC114WS | SILICON | |

⚠ : SAFETY PARTS

## I.C.s

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | | | AREA |
|---|---|---|---|---|---|---|
| | IC101 | XRA15218N | I.C. | EXAR JAPAN | | |
| | IC111 | BU4053B | I.C. | ROHM | | |
| | IC121 | XRA15218N | I.C. | EXAR JAPAN | | |
| | IC141 | LC7522 | I.C. | SANYO | | |
| | IC151 | LA3607S | I.C. | SANYO | | |
| | IC152 | LA3607S | I.C. | SANYO | | |
| | IC201 | TC4052BP | I.C. | TOSHIBA | | |
| | IC202 | XRA15218N | I.C. | EXAR JAPAN | | |
| | IC203 | XRA15218N | I.C. | EXAR JAPAN | | |
| | IC204 | XRA15218N | I.C. | EXAR JAPAN | | |
| | IC205 | XRA15218N | I.C. | EXAR JAPAN | | |
| | IC206 | XRA15218N | I.C. | EXAR JAPAN | | |
| | IC207 | XRA15218N | I.C. | EXAR JAPAN | | |
| | IC251 | XR1097CP | I.C. | EXAR JAPAN | | |
| | IC301 | MN171602JHI | I.C. | MATSUSHITA | | B |
| | IC301 | MN171602JHI | I.C. | MATSUSHITA | | C |
| | IC301 | MN171602JPV | I.C. | MATSUSHITA | | D |
| | IC302 | TC74HC42AP | I.C. | TOSHIBA | | |
| | IC303 | AN6873N | I.C. | MATSUSHITA | | |
| | IC304 | AN6873N | I.C. | MATSUSHITA | | |

⚠ : SAFETY PARTS

## Diodes

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | | AREA |
|---|---|---|---|---|---|
| | D111 | MTZ5.1JC | ZENER | ROHM | |
| | D112 | MTZ5.1JC | ZENER | ROHM | |
| | D141 | MTZ6.8JC | ZENER | ROHM | |
| | D142 | MTZ6.8JC | ZENER | ROHM | |
| | D147 | MTZ5.1JB | ZENER | ROHM | |
| | D261 | 1SS119 | SILICON | HITACHI | |
| | D262 | 1SS119 | SILICON | HITACHI | |
| | D272 | MTZ5.1JC | ZENER | ROHM | |
| | D273 | MTZ5.1JC | ZENER | ROHM | |
| | D301 | 1SS119 | SILICON | HITACHI | |
| | D302 | 1SS119 | SILICON | HITACHI | |
| | D303 | SLR-342VC3F | L.E.D. | ROHM | |
| | D304 | SLR-342VC3F | L.E.D. | ROHM | |
| | D305 | SLR-342VC3F | L.E.D. | ROHM | |
| | D306 | SLR-342VC3F | L.E.D. | ROHM | |
| | D307 | SLR-342VC3F | L.E.D. | ROHM | |
| | D310 | 1SS119 | SILICON | HITACHI | |
| | D311 | 1SS119 | SILICON | HITACHI | |
| | D312 | 1SS119 | SILICON | HITACHI | |
| | D313 | 1SS119 | SILICON | HITACHI | |
| | D314 | 1SS119 | SILICON | HITACHI | |
| | D315 | 1SS119 | SILICON | HITACHI | |
| | D316 | 1SS119 | SILICON | HITACHI | |
| | D317 | 1SS119 | SILICON | HITACHI | |
| | D318 | 1SS119 | SILICON | HITACHI | |
| | D319 | 1SS119 | SILICON | HITACHI | |
| | D331 | 1SS119 | SILICON | HITACHI | |
| | D332 | 1SS119 | SILICON | HITACHI | |

⚠ : SAFETY PARTS

## Capacitors

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | | | AREA |
|---|---|---|---|---|---|---|
| | C101 | QETB1EM-106 | 10MF | 25V | ELECTRO | |
| | C102 | QETB1EM-106 | 10MF | 25V | ELECTRO | |
| | C103 | QCSB1HJ-470 | 47PF | 50V | CERAMIC | |
| | C104 | QCSB1HJ-470 | 47PF | 50V | CERAMIC | |
| | C105 | QETB1CM-476 | 47MF | 16V | ELECTRO | |
| | C106 | QETB1CM-476 | 47MF | 16V | ELECTRO | |
| | C107 | QCVB1CM-103 | 0.01MF | 16V | CERAMIC | |
| | C108 | QCVB1CM-103 | 0.01MF | 16V | CERAMIC | |
| | C109 | QETB1EM-106 | 10MF | 25V | ELECTRO | |
| | C110 | QETB1EM-106 | 10MF | 25V | ELECTRO | |
| | C113 | QETB1AM-107 | 100MF | 10V | ELECTRO | |
| | C114 | QETB1AM-107 | 100MF | 10V | ELECTRO | |
| | C115 | QCVB1CM-103 | 0.01MF | 16V | CERAMIC | |
| | C116 | QCVB1CM-103 | 0.01MF | 16V | CERAMIC | |
| | C117 | QETB1HM-105 | 1MF | 50V | ELECTRO | |
| | C118 | QETB1HM-105 | 1MF | 50V | ELECTRO | |
| | C120 | QETB1HM-475 | 4.7MF | 50V | ELECTRO | |
| | C121 | QEK51EM-106 | 10MF | 25V | ELECTRO | |
| | C122 | QEK51EM-106 | 10MF | 25V | ELECTRO | |
| | C123 | QFLB1HJ-683 | 0.068MF | 50V | MYLAR | |
| | C125 | QEK51EM-475G | 4.7MF | 25V | ELECTRO | |
| | C126 | QEK51EM-475G | 4.7MF | 25V | ELECTRO | |
| | C127 | QETB1HM-475 | 4.7MF | 50V | ELECTRO | |
| | C128 | QETB1HM-475 | 4.7MF | 50V | ELECTRO | |
| | C141 | QETB1HM-475 | 4.7MF | 50V | ELECTRO | |
| | C142 | QETB1HM-475 | 4.7MF | 50V | ELECTRO | |
| | C143 | QETB1AM-107 | 100MF | 10V | ELECTRO | |
| | C144 | QETB1AM-107 | 100MF | 10V | ELECTRO | |
| | C146 | QCVB1CM-103 | 0.01MF | 16V | CERAMIC | |
| | C147 | QETB1AM-107 | 100MF | 10V | ELECTRO | |

⚠ : SAFETY PARTS

## Capacitors

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | | | AREA |
|---|---|---|---|---|---|---|
| | C149 | QETB1HM-225 | 2.2MF | 50V | ELECTRO | |
| | C150 | QETB1HM-225 | 2.2MF | 50V | ELECTRO | |
| | C151 | QETB1HM-474 | 0.47MF | 50V | ELECTRO | |
| | C152 | QETB1HM-474 | 0.47MF | 50V | ELECTRO | |
| | C153 | QETB1HM-224 | 0.22MF | 50V | ELECTRO | |
| | C154 | QETB1HM-224 | 0.22MF | 50V | ELECTRO | |
| | C155 | QFV81HJ-124 | 0.12MF | 50V | T.FILM | |
| | C156 | QFV81HJ-124 | 0.12MF | 50V | T.FILM | |
| | C157 | QETB1HM-224 | 0.22MF | 50V | ELECTRO | |
| | C158 | QETB1HM-224 | 0.22MF | 50V | ELECTRO | |
| | C159 | QFLB1HJ-473 | 0.047MF | 50V | MYLAR | |
| | C160 | QFLB1HJ-473 | 0.047MF | 50V | MYLAR | |
| | C161 | QFLB1HJ-104 | 0.1MF | 50V | MYLAR | |
| | C162 | QFLB1HJ-104 | 0.1MF | 50V | MYLAR | |
| | C163 | QFLB1HJ-183 | 0.018MF | 50V | MYLAR | |
| | C164 | QFLB1HJ-183 | 0.018MF | 50V | MYLAR | |
| | C165 | QFLB1HJ-393 | 0.039MF | 50V | MYLAR | |
| | C166 | QFLB1HJ-393 | 0.039MF | 50V | MYLAR | |
| | C167 | QFLB1HJ-682 | 6800PF | 50V | MYLAR | |
| | C168 | QFLB1HJ-682 | 6800PF | 50V | MYLAR | |
| | C169 | QFLB1HJ-153 | 0.015MF | 50V | MYLAR | |
| | C170 | QFLB1HJ-153 | 0.015MF | 50V | MYLAR | |
| | C171 | QFLB1HJ-272 | 2700PF | 50V | MYLAR | |
| | C172 | QFLB1HJ-272 | 2700PF | 50V | MYLAR | |
| | C173 | QFLB1HJ-562 | 5600PF | 50V | MYLAR | |
| | C174 | QFLB1HJ-562 | 5600PF | 50V | MYLAR | |
| | C175 | QFLB1HJ-122 | 1200PF | 50V | MYLAR | |
| | C176 | QFLB1HJ-122 | 1200PF | 50V | MYLAR | |
| | C177 | QFLB1HJ-222 | 2200PF | 50V | MYLAR | |
| | C178 | QFLB1HJ-222 | 2200PF | 50V | MYLAR | |
| | C179 | QCS21HJ-471 | 470PF | 50V | CERAMIC | |
| | C180 | QCS21HJ-471 | 470PF | 50V | CERAMIC | |
| | C181 | QCS21HJ-101 | 100PF | 50V | CERAMIC | |
| | C182 | QCS21HJ-101 | 100PF | 50V | CERAMIC | |
| | C184 | QETB1AM-107 | 100MF | 10V | ELECTRO | |
| | C186 | QCVB1CM-103 | 0.01MF | 16V | CERAMIC | |
| | C188 | QETB1AM-107 | 100MF | 10V | ELECTRO | |
| | C190 | QCVB1CM-103 | 0.01MF | 16V | CERAMIC | |
| | C201 | QETB1EM-106 | 10MF | 25V | ELECTRO | |
| | C202 | QETB1EM-106 | 10MF | 25V | ELECTRO | |
| | C203 | QCSB1HJ-470 | 47PF | 50V | CERAMIC | |
| | C204 | QCSB1HJ-470 | 47PF | 50V | CERAMIC | |
| | C205 | QFLB1HJ-104 | 0.1MF | 50V | MYLAR | |
| | C206 | QFLB1HJ-104 | 0.1MF | 50V | MYLAR | |
| | C207 | QCGB1HK-102 | 1000PF | 50V | CERAMIC | |
| | C208 | QCGB1HK-102 | 1000PF | 50V | CERAMIC | |
| | C209 | QFLB1HJ-222 | 2200PF | 50V | MYLAR | |
| | C210 | QFLB1HJ-222 | 2200PF | 50V | MYLAR | |
| | C213 | QCGB1HK-102 | 1000PF | 50V | CERAMIC | |
| | C214 | QCGB1HK-102 | 1000PF | 50V | CERAMIC | |
| | C215 | QETB1EM-106 | 10MF | 25V | ELECTRO | |
| | C216 | QETB1EM-106 | 10MF | 25V | ELECTRO | |
| | C217 | QETB1EM-106 | 10MF | 25V | ELECTRO | |
| | C218 | QETB1EM-106 | 10MF | 25V | ELECTRO | |
| | C219 | QETB1EM-476 | 47MF | 25V | ELECTRO | |
| | C220 | QETB1EM-476 | 47MF | 25V | ELECTRO | |
| | C221 | QETB1EM-106 | 10MF | 25V | ELECTRO | |
| | C222 | QETB1EM-106 | 10MF | 25V | ELECTRO | |
| | C223 | QCBB1HK-101 | 100PF | 50V | CERAMIC | |
| | C224 | QCBB1HK-101 | 100PF | 50V | CERAMIC | |
| | C261 | QETB1EM-106 | 10MF | 25V | ELECTRO | |
| | C262 | QETB1HM-105 | 1MF | 50V | ELECTRO | |
| | C263 | QFLB1HJ-473 | 0.047MF | 50V | MYLAR | |
| | C264 | QETB1CM-476 | 47MF | 16V | ELECTRO | |
| | C265 | QCY21HK-102 | 1000PF | 50V | CERAMIC | |
| | C266 | QCF21HP-473 | 0.047MF | 50V | CERAMIC | |
| | C267 | QETB1HM-106 | 10MF | 50V | ELECTRO | |
| | C271 | QETBOJM-227 | 220MF | 6.3V | ELECTRO | |
| | C272 | QETBOJM-227 | 220MF | 6.3V | ELECTRO | |
| | C274 | QCVB1CM-103 | 0.01MF | 16V | CERAMIC | |
| | C281 | QETB1AM-107 | 100MF | 10V | ELECTRO | |
| | C282 | QCVB1CM-103 | 0.01MF | 16V | CERAMIC | |
| | C283 | QETB1CM-107 | 100MF | 16V | ELECTRO | |
| | C284 | QCVB1CM-103 | 0.01MF | 16V | CERAMIC | |
| | C285 | QETB1CM-107 | 100MF | 16V | ELECTRO | |
| | C286 | QCVB1CM-103 | 0.01MF | 16V | CERAMIC | |
| | C301 | QEADOHZ-479A | 47000MF | | ELECTRO | |
| | C302 | QCVB1CM-103 | 0.01MF | 16V | CERAMIC | |
| | C303 | QETB1HM-226 | 22MF | 50V | ELECTRO | |
| | C305 | QETB1AM-107 | 100MF | 10V | ELECTRO | |
| | C306 | QCVB1CM-103 | 0.01MF | 16V | CERAMIC | |
| | C307 | QCF21HP-103 | 0.01MF | 50V | CERAMIC | |
| | C308 | QETB1AM-107 | 100MF | 10V | ELECTRO | |
| | C332 | QCBB1HK-471 | 470PF | 50V | CERAMIC | |
| | C344 | QETB1AM-107 | 100MF | 10V | ELECTRO | |
| | C345 | QCVB1CM-103 | 0.01MF | 16V | CERAMIC | |

⚠ : SAFETY PARTS

## Resistors

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|---|---|---|---|
| | R011 | QRD167J-104 | 100K 1/6W CARBON | |
| | R012 | QRD167J-104 | 100K 1/6W CARBON | |
| | R101 | QRD161J-221 | 220 1/6W CARBON | |
| | R102 | QRD161J-221 | 220 1/6W CARBON | |
| | R103 | QRD167J-473 | 47K 1/6W CARBON | |
| | R104 | QRD167J-473 | 47K 1/6W CARBON | |
| | R105 | QRD167J-912 | 9.1K 1/6W CARBON | |
| | R106 | QRD167J-912 | 9.1K 1/6W CARBON | |
| | R107 | QRD167J-104 | 100K 1/6W CARBON | |
| | R108 | QRD167J-104 | 100K 1/6W CARBON | |
| | R109 | QRD167J-104 | 100K 1/6W CARBON | |
| | R110 | QRD167J-104 | 100K 1/6W CARBON | |
| | R111 | QRD167J-471 | 470 1/6W CARBON | |
| | R112 | QRD167J-471 | 470 1/6W CARBON | |
| | R113 | QRD167J-473 | 47K 1/6W CARBON | |
| | R114 | QRD167J-473 | 47K 1/6W CARBON | |
| | R115 | QRD167J-224 | 220K 1/6W CARBON | |
| | R117 | QRD167J-123 | 12K 1/6W CARBON | |
| | R118 | QRD167J-123 | 12K 1/6W CARBON | |
| | R120 | QRD167J-104 | 100K 1/6W CARBON | |
| | R121 | QRD167J-473 | 47K 1/6W CARBON | |
| | R122 | QRD167J-473 | 47K 1/6W CARBON | |
| | R123 | QRD167J-473 | 47K 1/6W CARBON | |
| | R124 | QRD167J-473 | 47K 1/6W CARBON | |
| | R125 | QRD167J-473 | 47K 1/6W CARBON | |
| | R126 | QRD167J-473 | 47K 1/6W CARBON | |
| | R129 | QRD167J-104 | 100K 1/6W CARBON | |
| | R130 | QRD167J-104 | 100K 1/6W CARBON | |
| | R140 | QRD167J-301 | 300 1/6W CARBON | |
| | R141 | QRD167J-301 | 300 1/6W CARBON | |
| | R142 | QRD161J-221 | 220 1/6W CARBON | |
| | R145 | QRD167J-113 | 11K 1/6W CARBON | |
| | R146 | QRD167J-113 | 11K 1/6W CARBON | |
| | R147 | QRD161J-221 | 220 1/6W CARBON | |
| | R164 | QRD167J-222 | 2.2K 1/6W CARBON | |
| | R165 | QRD167J-222 | 2.2K 1/6W CARBON | |
| | R166 | QRD167J-222 | 2.2K 1/6W CARBON | |
| | R170 | QRD167J-151 | 150 1/6W CARBON | |
| | R203 | QRD167J-104 | 100K 1/6W CARBON | |
| | R204 | QRD167J-104 | 100K 1/6W CARBON | |
| | R205 | QRD167J-103 | 10K 1/6W CARBON | |
| | R206 | QRD167J-103 | 10K 1/6W CARBON | |
| | R207 | QRD167J-473 | 47K 1/6W CARBON | |
| | R208 | QRD167J-473 | 47K 1/6W CARBON | |
| | R209 | QRD167J-682 | 6.8K 1/6W CARBON | |
| | R210 | QRD167J-682 | 6.8K 1/6W CARBON | |
| | R211 | QRD167J-103 | 10K 1/6W CARBON | |
| | R212 | QRD167J-103 | 10K 1/6W CARBON | |
| | R213 | QRD167J-103 | 10K 1/6W CARBON | |
| | R214 | QRD167J-103 | 10K 1/6W CARBON | |
| | R215 | QRD167J-103 | 10K 1/6W CARBON | |
| | R216 | QRD167J-103 | 10K 1/6W CARBON | |
| | R217 | QRD167J-103 | 10K 1/6W CARBON | |
| | R218 | QRD167J-103 | 10K 1/6W CARBON | |
| | R219 | QRD167J-103 | 10K 1/6W CARBON | |
| | R220 | QRD167J-103 | 10K 1/6W CARBON | |
| | R221 | QRD167J-103 | 10K 1/6W CARBON | |
| | R222 | QRD167J-103 | 10K 1/6W CARBON | |
| | R223 | QRD167J-103 | 10K 1/6W CARBON | |
| | R224 | QRD167J-103 | 10K 1/6W CARBON | |
| | R225 | QRD167J-103 | 10K 1/6W CARBON | |
| | R226 | QRD167J-103 | 10K 1/6W CARBON | |
| | R227 | QRD167J-224 | 220K 1/6W CARBON | |
| | R228 | QRD167J-224 | 220K 1/6W CARBON | |
| | R229 | QRD167J-103 | 10K 1/6W CARBON | |
| | R230 | QRD167J-103 | 10K 1/6W CARBON | |
| | R233 | QRD167J-224 | 220K 1/6W CARBON | |
| | R234 | QRD167J-224 | 220K 1/6W CARBON | |
| | R237 | QRD167J-243 | 24K 1/6W CARBON | |
| | R238 | QRD167J-243 | 24K 1/6W CARBON | |
| | R239 | QRD167J-563 | 56K 1/6W CARBON | |
| | R240 | QRD167J-563 | 56K 1/6W CARBON | |
| | R241 | QRD167J-224 | 220K 1/6W CARBON | |
| | R242 | QRD167J-224 | 220K 1/6W CARBON | |
| | R243 | QRD167J-103 | 10K 1/6W CARBON | |
| | R244 | QRD167J-103 | 10K 1/6W CARBON | |
| | R245 | QRD167J-103 | 10K 1/6W CARBON | |
| | R246 | QRD167J-103 | 10K 1/6W CARBON | |
| | R247 | QRD167J-103 | 10K 1/6W CARBON | |
| | R248 | QRD167J-103 | 10K 1/6W CARBON | |
| | R249 | QRD167J-103 | 10K 1/6W CARBON | |
| | R250 | QRD167J-103 | 10K 1/6W CARBON | |
| | R251 | QRD167J-103 | 10K 1/6W CARBON | |
| | R252 | QRD167J-103 | 10K 1/6W CARBON | |
| | R253 | QRD167J-104 | 100K 1/6W CARBON | |
| | R254 | QRD167J-104 | 100K 1/6W CARBON | |
| | R255 | QRD161J-221 | 220 1/6W CARBON | |
| | R256 | QRD161J-221 | 220 1/6W CARBON | |
| | R257 | QRD167J-103 | 10K 1/6W CARBON | |
| | R258 | QRD167J-103 | 10K 1/6W CARBON | |
| | R259 | QRD167J-133 | 13K 1/6W CARBON | |
| | R260 | QRD167J-133 | 13K 1/6W CARBON | |
| | R261 | QRD167J-513 | 51K 1/6W CARBON | |
| | R262 | QRD167J-204 | 200K 1/6W CARBON | |
| | R263 | QRD167J-222 | 2.2K 1/6W CARBON | |
| | R264 | QRD167J-102 | 1K 1/6W CARBON | |

⚠ : SAFETY PARTS

## Resistors

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|---|---|---|---|
| | R265 | QRD167J-104 | 100K 1/6W CARBON | |
| | R266 | QRD167J-103 | 10K 1/6W CARBON | |
| | R267 | QRD167J-473 | 47K 1/6W CARBON | |
| | R268 | QRD167J-393 | 39K 1/6W CARBON | |
| | R269 | QRD167J-562 | 5.6K 1/6W CARBON | |
| | R270 | QRD167J-223 | 22K 1/6W CARBON | |
| | R271 | QRD167J-331 | 330 1/6W CARBON | |
| | R272 | QRD167J-301 | 300 1/6W CARBON | |
| | R273 | QRD167J-223 | 22K 1/6W CARBON | |
| | R274 | QRD167J-223 | 22K 1/6W CARBON | |
| | R275 | QRD167J-152 | 1.5K 1/6W CARBON | |
| | R276 | QRD167J-563 | 56K 1/6W CARBON | |
| | R277 | QRD161J-221 | 220 1/6W CARBON | |
| | R279 | QRD161J-221 | 220 1/6W CARBON | |
| | R280 | QRD161J-221 | 220 1/6W CARBON | |
| | R281 | QRD167J-103 | 10K 1/6W CARBON | |
| | R283 | QRD161J-221 | 220 1/6W CARBON | |
| | R284 | QRD161J-221 | 220 1/6W CARBON | |
| | R293 | QRD167J-103 | 10K 1/6W CARBON | |
| | R294 | QRD167J-103 | 10K 1/6W CARBON | |
| | R295 | QRD167J-103 | 10K 1/6W CARBON | |
| | R296 | QRD167J-103 | 10K 1/6W CARBON | |
| | R297 | QRD167J-103 | 10K 1/6W CARBON | |
| | R298 | QRD167J-103 | 10K 1/6W CARBON | |
| | R304 | QRD167J-104 | 100K 1/6W CARBON | |
| | R305 | QRD167J-103 | 10K 1/6W CARBON | |
| | R306 | QRD167J-103 | 10K 1/6W CARBON | |
| | R307 | QRD167J-103 | 10K 1/6W CARBON | |
| | R308 | QRD167J-431 | 430 1/6W CARBON | |
| | R309 | QRD167J-391 | 390 1/6W CARBON | |
| | R310 | QRD167J-431 | 430 1/6W CARBON | |
| | R311 | QRD167J-511 | 510 1/6W CARBON | |
| | R312 | QRD167J-331 | 330 1/6W CARBON | |
| | R313 | QRD167J-470 | 47 1/6W CARBON | |
| | R331 | QRD161J-221 | 220 1/6W CARBON | |
| | R332 | QRD161J-221 | 220 1/6W CARBON | |
| | R333 | QRD167J-473 | 47K 1/6W CARBON | |
| | R334 | QRD167J-473 | 47K 1/6W CARBON | |
| | RA141 | QRB099J-474 | 470K 1/10W R.NETWORK | |
| | RA142 | QRB099J-474 | 470K 1/10W R.NETWORK | |

⚠ : SAFETY PARTS

## Others

| ⚠ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|---|---|---|---|
| | L170 | EQL4004-1R0 | INDUCTOR | |
| | S301 | ESP0001-023M | TACT SWITCH(AI) | |
| | S302 | ESP0001-023M | TACT SWITCH(KARAOKE) | |
| | S303 | ESP0001-023M | TACT SWITCH(SEA ON/OFF) | |
| | S304 | ESP0001-023M | TACT SWITCH(PANORAMA SURROUND) | |
| | S305 | ESP0001-023M | TACT SWITCH(GAME) | |
| | S306 | ESP0001-023M | TACT SWITCH(CHURCH) | |
| | S307 | ESP0001-023M | TACT SWITCH(CINEMA) | |
| | S308 | ESP0001-023M | TACT SWITCH(HALL) | |
| | S309 | ESP0001-023M | TACT SWITCH(DISCO) | |
| | S310 | ESP0001-023M | TACT SWITCH(MANUAL) | |
| | S311 | ESP0001-023M | TACT SWITCH(PROGRAM) | |
| | S312 | ESP0001-023M | TACT SWITCH(FLAT) | |
| | S313 | ESP0001-023M | TACT SWITCH(DISPLAY) | |
| | S314 | ESP0001-023M | TACT SWITCH(DEMO) | |
| | S315 | ESP0001-023M | TACT SWITCH(FREQUENCY ◀ ) | |
| | S316 | ESP0001-023M | TACT SWITCH(LEVEL −) | |
| | S317 | ESP0001-023M | TACT SWITCH(LEVEL +) | |
| | S318 | ESP0001-023M | TACT SWITCH(FREQUENCY ▶ ) | |
| | S319 | ESP0001-023M | TACT SWITCH(MEMORY) | |
| | S321 | ESP0001-023M | TACT SWITCH(PERSONAL) | |
| | S322 | ESP0001-023M | TACT SWITCH(BGM) | |
| | S323 | ESP0001-023M | TACT SWITCH(RELAX) | |
| | S324 | ESP0001-023M | TACT SWITCH(EXCITE) | |
| | S325 | ESP0001-023M | TACT SWITCH(ROCK/A) | |
| | S326 | ESP0001-023M | TACT SWITCH(POPS/B) | |
| | S327 | ESP0001-023M | TACT SWITCH(CLASSIC/C) | |
| | S328 | ESP0001-023M | TACT SWITCH(CAR/D) | |
| | S329 | ESP0001-023M | TACT SWITCH(H.PHONE/E) | |
| | X301 | ECX0060-000EM | RESONATOR | |
| | EP001 | E70859-001 | EARTH PLATE | |
| | FL301 | ELU0001-156 | FL TUBE | B |
| | FL301 | ELU0001-156 | FL TUBE | C |
| | FL301 | ELU0001-145 | FL TUBE | D |
| | JA301 | EMV7123-021R | CONNECTOR(21PIN) TO FRONT : MAIN | |
| | JB301 | EMV7123-021 | CONNECTOR(21PIN) TO MAIN : FRONT | |
| | JT101 | EMV7141-011 | CONNECTOR(11PIN) FROM SYSTEM CONNECTOR : RX | |
| | JT102 | EMV7141-008M | CONNECTOR(8PIN) FROM SYSTEM CONNECTOR : RX | |
| | SB301 | E306958-002 | FL DISPLAY HOLDER | |
| | SP301 | E306805-021 | FELT SPACER | |

⚠ : SAFETY PARTS

JVC

VICTOR COMPANY OF JAPAN, LIMITED
AUDIO PRODUCTS DIVISION, 1644, Shimotsuruma, Yamato-shi, Kanagawa-ken, 242, JAPAN

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