# AKAI SERVICE MANUAL



MIDI PRODUCTION CENTER.

## \* SAFETY INSTRUCTIONS

#### PRECAUTIONS DURING SERVICING

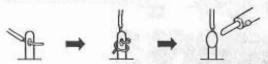
- Parts identified by the 
   (\*) symbol are critical for safety. Replace them only with the parts number specified.
- In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation. These must also be replaced only with the specified replacements.

Examples: RF converters, tuner units, antenna selector switches, RF cables, noise blocking capacitors, noise blocking filters, etc.

- 3. Use specified internal wiring. Note especially:
  - 1) Wires covered with PVC tubing
  - 2) Double insulated wires
  - 3) High voltage leads
- Use specified insulating materials for hazardous live parts.

Note especially:

- 1) Insulation Tape
- 2) PVC tubing
- 3) Spacers (insulating barriers)
- 4) Insulation sheets for transistors
- 5) Plastic screws for fixing micro switches
- When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap the ends of the wires securely around the terminals before soldering.



- Make sure that wires do not contact heat producing parts (heat sinks, oxide metal film resistors, fusible resistors, etc.).
- Check that replaced wires do not contact sharp edged or pointed parts.
- 8. Also check areas surrounding repaired locations.
- Make sure that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

#### SAFETY CHECK AFTER SERVICING

After servicing, make measurements of leakage-current or resistance in order to determine that exposed parts are acceptably insulated from the supply circuit.

The leakage-current measurement should be done between accessible metal parts (such as chassis, ground terminal, microphone jacks, signal input/output connectors, etc.) and the earth ground through a resistor of 1500 ohms paralleled with a 0.15 µF capacitor, under the unit's normal working conditions. The leakage-current should be less than 0.5 mA rms AC.

The resistance measurement should be done between accessible exposed metal parts and power cord plug prongs with the power switch (if included) "ON". The resistance should be more than 2.2 M ohms.

## **★** INFORMATIONS

#### SYMBOLS FOR PRIMARY DESTINATION

Unit destinations are indicated with letters as shown below.

| Symbols           | Principal Destinations |  |
|-------------------|------------------------|--|
| [A]               | U.S.A                  |  |
| B                 | U,K                    |  |
| [0]               | Canada                 |  |
| E                 | Europe (except U.K)    |  |
| J                 | Japan                  |  |
| S                 | Australia              |  |
| V                 | Germany                |  |
| U                 | Universal Area         |  |
| Y* Custom version |                        |  |

| 95 | DMOC | 14.5 | BUILD |
|----|------|------|-------|

# ★ SPECIFICATIONS

| Sound generator  | Stereo output 1/4 inch stereo phone jack x 2,   |
|--|---|
| Sampling rate 44.1 kHz (20 Hz to 20 kHz)                               | unbalanced  |
| Sampling capacity 2 MB standard (expandable 32 MB) (21.9 second/monau  | to Output level   |
| or 10.9 second/stereo)   | output level +17 dBu/100 ohms   |
| Data format 16 bit linear  | Assignable mix out  |
| Dynamic filtering 12 dB/oct dynamic resonant low pass filter par voice | (option) 1/4 inch stereo phone jack x 8,<br>unbalanced  |
| Maximum sounds in  | Output level +11 dBu/100 ohms   |
| memory 128   | Maximum   |
| Number of sound  | output level +17 dBu/100 ohms   |
| program 24   | Headphone output 1/4 inch stereo phone jack x 1,  |
| Sound assignments  | Output level 200 mW/32 ohms   |
| per program 64   | MIDI inputs 5 pin-DIN x 2 (mergeable)   |
| Simultaneous voices 32   | MIDI outputs 5 pin-DIN x 2 (independent)  |
|  | SCSI port 1 (25-pin D-sub connector)  |
| Sequencer  |   |
| Maximum notes 100,000  | General   |
| Resolution 96 parts per 1/4-note (ppq)                                 | Display 248 x 64 dots graphic LCD   |
| Sequence   | Disk drive 3.5 inch 2HD/2DD   |
| Tracks per sequence 64   | Expantion   |
| MIDI output channels 32 (16 channels x 2 output                        | memory slots 2 (72 pin SIMM, 70 ns)   |
| ports)   | Dimensions  |
| Song mode  |   |
| Drum pads 16 (with velocity & pressure                                 | Power requirements AC 100 V, 50/60 Hz for Japan   |
| sensitive)   | AC 120 V, 60 Hz for U.S.A and   |
| Drum pad banks4  | Canada  |
| Sync mode MIDI clock with S.P.P., MTC                                  | AC 220-240 V, 50 Hz for Europe  |
| MMC, SMPTE (option).   | Power consumption 23 W  |
| SMPTE frame rates support  |   |
| are 24, 25, 30 and 30 drops  | 200 F 1 PER LI BOOK PER PER LI PER LI BOOK PER PER LI PER |
| (29.97)  | Optional boards   |
| 1  | EB16 Multi effect processor board   |
| Rear panel IN/OUT  | FMX008M 8 MB flash ROM board  |
| Record input   |   |
| balanced   | IB-M20T SMPTE board   |
| Sensitivity40 dBu/39 kohms (REC VI                                     |   |
| max.)  | Standard accessories  |
| Maximum input level +10 dBu  | Power cable1  |
| Digital sampling input RCA-pin jack x1, S/PDIF                         | Floppy disk 1 (OS disk)   |
| (option)   | 3 (Sound library disk)  |
| Digital master output RCA-pin jack x1, S/PDIF                          | Operator's manual 1   |
| (option)   | Sparator o management   |

0 dBu=0.775 VRMS

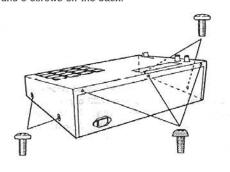
\* For improvement purposes, specifications and design are subject to change without notice.

## I. DISASSEMBLY

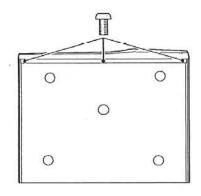
direction.

In case of trouble, etc., necessitating dismantling, please dismantle in the order shown in the illustrations. Reassemble in the reverse order.

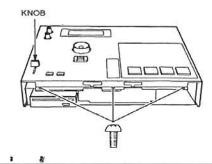
1. Remove the 4 screws on both the left and right sides 3. Remove the 3 screws which secure the UPPER PANEL. and 3 screws on the back.



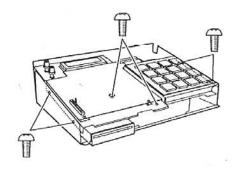
2. Remove the 3 screws on the bottom Remove the FRONT PANEL by pulling it in the forward



Next, extract the NOTE VARIATION knob and remove the UPPER PANEL.



Remove the 4 screws on both the left and right sides and 2 screws on the sub chassis.



Disconnect the P2 connector on the CPU PCB then remove the sub chassis with the OPERATION PCB and PAD block attached.

## II. PRINCIPAL PARTS LOCATION

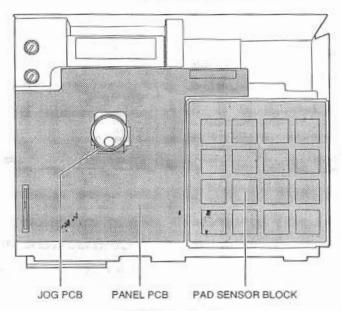
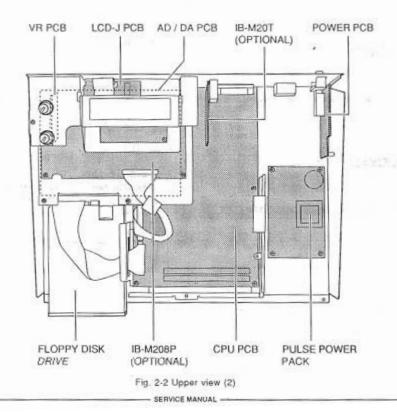


Fig. 2-1 Upper view (1)



#### III. SUPPLEMENTARY INFORMATION

#### TEST MODE

\* This test mode is used for the inspection of the unit. To check the unit, proceed as follows.

#### Engeging the test mode.

- Turn the power on and insert the OS disk according to the LCD indication, After the system is bootup, press the "MIXER (7)" button while pressing the "SHIFT" button.
- 2) Press the "OPEN WINDOW" button.
- Press the "0" button while pressing the "SHIFT" button.
   The "flash file memory test" screen appears when the test mode is engaged.
- To disengage the test mode, press the "MAIN SCREEN" button or turn the power of the unit off.

NOTE: Only the [WAVE MEMORY TEST] and [FLASH FILE MEMORY TEST] modes can be proceed sequently.

Once you engage the [PAD TEST] MEC OUT (8 PARA)] or [SMPTE TEST] mode in the test mode, it is not possible to go to the other test mode directly. In this case, press the "MAIN SCREEN" button and re-engage the test mode again to go to the other test modes.

\* The test mode may be different according to the version of the software.

#### 3-1. Wave memory test

 Engage the test mode and press the "F1" button. The following messages will be displayed.

NOTE: All wave memory (DRAM) will be lost when the "F1" button is pressed.



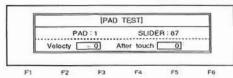
Press the "F6" (GO) button. The following messages will be displayed after the display stops incrementing.



This means the function of the unit is operating properly.

#### 3-2. Pad test

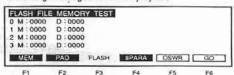
 Engage the test mode and press the "F2" button. The following messages will be displayed.



 Press any of the 16 pad buttons. The pad number that you pressed will be shown in the display as well as the velocity and after touch conditions are displayed momentarily.

#### 3-3. Flash file memory test

 Engage the test mode and press the "F3" button. The following messages will be displayed.



Press the "F6" (GO) button. The following messages will be displayed if the flash memory is not installed.



NOTE: All flash file memory (F-ROM) will be lost when this memory test is performed.

#### 3-4. REC out (8PARA)

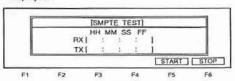
 Engage the test mode and press the "F4" button. The following messages will be displayed.



 If the IB-M208P (optional 8PARA/ DIO PCB) is connected, " out to individual;" turns on when the "DATA" knob is turned.

#### 3-5. SMPTE test

 Engage the test mode and press the "F1" button then press the "F5" button. The following messages will be displayed.



 Press the "F5" (START) button if the IB-M20T (optional SMPTE PCB) is connected. TX starts incrementing and count up the time until the F6 (STOP) button is pressed.

SERVICE MANUAL

#### **ATTENTION**

- When placing an order for parts, be sure to list the Part No., Model No. and the description of each part.
   Otherwise, the non-delivery of the part or the delivery of a wrong part may result.
- 2. Please make sure that Parl No. is correct when ordering.

  If not, a part different from the one you ordered may be delivered.
- Since the parts shown in Parts List or Preliminary Service Manual may have been the subject of changes, please use this Parts List for all future reference.

#### HOW TO USE THIS PARTS LIST

- This Parts List lists those parts which are considered necessary for repairs. Other common parts, such as resistors and capacitors, are listed in the "Common List for Service Parts" from which these parts should be selected and stocked.
- 2. The Recommended Spare PartsAList shows those parts in the Parts List which are considered particularly important for service
- 3. Parts not shown in the Parts List and "Common List for Service Parts" will not in principle be supplied.
- 4. How to read the Parts List.
  - a) Mechanism Block

#### 2. HEAD BASE BLOCK

Ref. No. Part. No.

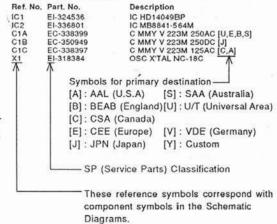
BH-T2023A320A HEAD BASE BLOCK
HEAD R/P PR4-8FU C
PAN20x03STL CMT
SP CS ANGLE ADJUST

SP (Service Parts) Classification

This number corresponds with the individual parts index number in the figure.

b) PC Board

#### 2. MAIN PC BOARD



The available PC Board Blocks are listed separately.

5. When Part No. is known, Parts Index at end of Parts List can be used to locate where that part is shown in Parts List by its Reference No. listed at right of Part No.

#### WARNING

A INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

#### **AVERTISSEMENT**

A IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ, POUR MAINTENIR LE DEGRÉ DE SÉCURITÉDE L'APPAREIL, NE REMPLACER QUE DES PIÉCES RECOMMANDEES PAR LÉ FABRICANT.

#### 1. RECOMMENDED SPARE PARTS

We suggest you to stock the following Recommended Spare Part items listed below since they can cover most of the routine service.

| Ref. No. | Part No.   | Description                       |  |
|----------|--|-----------------------------------|--|
| 1        | BB-810498J   | FDD FD-235HF-7549                 |  |
| 2        | ED-388539J   | D LED GL-3HD43                    |  |
| 3        | ED-810393J   | D LED GL-3HD43<br>D LED GL-3KG8   |  |
|          | The state of the s |                                   |  |
| 4        | ED-428162N   | D SCHOTTKY 1S30-E T26             |  |
| 5        | ED-389834J   | D SILICON DS135E-FB2 F12 100/1    |  |
| 6        | ED-344280  | D SILICON H GMA-01-FY2 F05        |  |
| 7        | ED-412105N   | D ZENER H HZS581 T26              |  |
| 8        | ΔEF-346880   | FUSE ICP-F15 50V 0,6A             |  |
| 9        | △ EF-376821  | FUSE ICP-N15 50V 0.6A             |  |
| 10       | △ EF-373142  | FUSE ICP-N25 50V 1.0A             |  |
| 11       | △ EF-373143  | FUSE ICP-N38 50V 1.5A             |  |
| 12       | EI-B10412J   | ICAK6340-VS                       |  |
| 13       | El-429988J   | ICAV9173-01-CN8                   |  |
|          | E1 44044444  | T                                 |  |
| 14       | El-410414J1  | IC CS8402A-CP<br>IC E28F016SA-100 |  |
| 15       | EI-432815J   | IC E28F016SA-100                  |  |
| 16       | El-810380J   | IC HU74ACOUMP                     |  |
| 17       | EI-430936J   | IC HD74AC04FP                     |  |
| 18       | EI-396536J   | IC HD74AC138P                     |  |
| 19       | EI-430943J   | IC HD74AC74FP                     |  |
| 20       | EI-387934J   | IC HD74HC04P                      |  |
| 21       | EI-394832J   | IC HD74HC123AP                    |  |
| 22       | EI-386289J   | IC HD74HC138P                     |  |
| -        |  |                                   |  |
| 23       | EI-393695J   | IC HD74HC154P                     |  |
| 24       | El-810386J   | IC HD74HC174FP                    |  |
| 25       | EI-388707J   | IC HD74HC244P                     |  |
| 26       | El-810382J   | IC HD74HC259FP                    |  |
| 27       | EI-810268J   | IC HD74HC273FP                    |  |
| 28       | EI-401217J   | IC HD74HC32FP                     |  |
| 29       | EI-810383J   | IC HD74HC4060FP                   |  |
| 30       | EI-388567J   | IC HD74HC573P                     |  |
| 31       | EI-810269J   | IC HD74HC595FP                    |  |
| 32       | EI-393696J   | IC HD74HC86P                      |  |
| 33       | EI-810385J   | IC HM5118160ALTT-7                |  |
| 34       | El-810153J   | *IC HM514260CLTT-7                |  |
| -        |  |                                   |  |
| 35       | El-430810J   | ICICS2008V                        |  |
| 36       | El-413120J   | IC L7A1045 L6028 DSP-A            |  |
| 37       | El-810047J   | IC MB89352A-PFQ QFTY              |  |
| 38       | El-401213J   | IC MB89371A-PF-G-BND QF           |  |
| 39       | EI-810328J   | IC MC74AC257M                     |  |
| 40       | El-810646J   | IC MC74HCU04AN                    |  |
| 41       | EI-430680J   | IC M51957AL                       |  |
| 42       | EI-430681J   | IC M51958AL                       |  |
| 43       | El-353227  | IC M5216L                         |  |
| 44       | El-393325N   | IC M5218AP                        |  |
| 45       | El-348785  |                                   |  |
|          | 177. 177. 177. 177. 177. 177. 177. 177.  | IC M5220L                         |  |
| 46       | El-360043  | IC M5220P                         |  |
| 47       | EI-377047  | IC M5223FP                        |  |
| 48       | EI-362587J1  | IC M5238AL                        |  |
| 49       | El-377191  | IC NJM5532D-D                     |  |
| 50       | El-810613J   | IC PALCE16V8Q-15PC L4013C         |  |
| 51       | EI-810379J   | IC PALCE20V8Q-15PC L4013A         |  |
| 52       | EI-810384J   | IC PALCE20V8Q-15PC L4013B         |  |
| 53       | El-430673J   | IC PALCE20V8Q-15PC L6039A         |  |
| 54       | El-412279J1  | IC PCM69AP-4                      |  |
| 55       | El-410389J   | IC PQ30RV:                        |  |
| S6       |  |                                   |  |
|          | El-376741J1  | IC TC74HC244AF                    |  |
| 57       | El-381290J1  | IC TC74HC245AF                    |  |
| 58       | El-377101  | IC UPC7805HF                      |  |
| 59       | El-430684J   | IC UPD70236AGD-16-5BB             |  |
| 60       | El-396531J   | IC UPD72068GF-3B9                 |  |
| 61       | El-405572J   | IC UPD78C10AGQ-36                 |  |
| 62       | El-379997J   | ICYM3623B                         |  |
| 63       | EI-354123  | OSC CE CSA120MTZ 12.000000MHZ     |  |
| 64       | El-414959J   | OSC X'TALAT-51 11.289600MHZ       |  |
| 65       | El-374176  | OSC X'TALAT-51 11.289600MHZ       |  |
|          |  |                                   |  |
| 66       | El-396541J   | OSC X'TAL HC-49/U 32.000000MHZ    |  |
| 67       | EJ-357159  | PHONE J 2P HLJ0520-110 W/NUT      |  |
| 68       | EJ-354105  | PHONE J 2P HLJ0520-110 6.3        |  |
| 69       | EJ-810705J   | PHONE J 3P HLJ0544-010W/N,W6.3    |  |

| Ref. No. | Part No.     | Description                    |
|----------|--------------|--------------------------------|
| 70       | EJ-810706J   | PHONE J 3P HLJ0544-110W/N,W6,3 |
| 71       | EJ-810624J   | PHONE J 3P HTJ-06411D 6.3      |
| 72       | EO-345990N   | COIL FIX 1 EL0606RA T05 470J   |
| 73       | EO-414952J   | TRANS PULSE CITO705D-35101     |
| 74       | EQ-348929    | RELAY SIG G5A-237P 2TR 12V     |
| 75       | ES-403377J   | SW ROTARY ENCODER SRGPHJ       |
| 76       | ES-411687N   | SW TACT EVO PAE 05R            |
| 77       | ES-415015J   | SW TACT SKOEAD                 |
| 78       | ET-430926J   | DETECTOR PC400                 |
| 79       | ET-366753N   | TR DTA114ES TO5                |
| 80       | ET-386938N   | TR DTC123ES T05                |
| 81       | ET-349593    | TR 2SA1348 F05                 |
| 82       | ET-370013    | TR 2SA874 Q,R                  |
| 83       | EV-810416J   | VR ROTARY RK0971220 L25 B103X2 |
| 84       | EV-810417J   | VR ROTARY RK0971220 L25 C503X2 |
| 85       | EV-810633J   | VR SLIDE RS45112 L15 B103X2    |
| 00       | L. 1-0100000 | VA 3CIDE 1043112 C13 B103A2    |

#### 2. P.C. BOARD BLOCK

| Ref. No. | Part No.     | Description     |
|----------|--------------|-----------------|
| 1        | BA-L4013A020 | PC CPU BLK      |
| 2        | BA-L4013A030 | PC(#) MULTI BLK |
| 3        | BA-L4013A040 | PC(#) ADA BLK   |

PC (#) ADA BLK CONSISTS OF FOLLOWING P.C. BOARDS.

• ADA P.C. BOARD

- · VR P.C. BOARD
- · LCD-J P.C. BOARD

PC (#) MULTI BLK CONSISTS OF FOLLOWING P.C. BOARDS.

- PANEL P.C. BOARD
- JOG P.C. BOARD
   POWER P.C. BOARD

#### 3. CPU P.C. BOARD

| Ref. No. | Part No.   | Description                    |
|----------|------------|--------------------------------|
| D1       | ED-344280  | D SILICON H GMA-01-FY2 F05     |
| D2       | ED-428162N | D SCHOTTKY 1S30-E T26          |
| D3       | ED-344280  | D SILICON H GMA-01-FY2 F05     |
| D4       | ED-389834J | D SILICON DS135E-FB2 F12 100/1 |
| FL1      | EH-410420J | FILTER EMI DSS306-93B101MT05   |
| FL2      | EH-410420J | FILTER EMI DSS306-93B101MT05   |
| FL3      | EH-410420J | FILTER EMI DSS306-93B101MT05   |
| FL4      | EH-410420J | FILTER EMI DSS306-93B101MT05   |
| FL5      | EH-410420J | FILTER EMI DSS306-93B101MT05   |
| FL6      | EH-410420J | FILTER EMI DSS306-93B101MT05   |
| FL7      | EH-410420J | FILTER EMI D\$\$306-93B101MT05 |
| FL8      | EH-410420J | FILTER EMI DSS306-93B101MT05   |
| FL11     | EH-410420J | FILTER EMI DSS306-93B101MT05   |
| FL12     | EH-413150J | FILTER EMI BLO3RN2-R62T4 T05   |
| FL13     | EH-413150J | FILTER EMI BL03RN2-R62T4 T05   |
| FL14     | EH-413150J | FILTER EMI BLO3RN2-R62T4 T05   |
| FL15     | EH-410420J | FILTER EMI DSS306-93B101MT05   |
| FL16     | EH-364254  | FERRITE BEAD BL02RN2-R62       |
| FL17     | EH-413150J | FILTER EMI BLO3RN2-R62T4T05    |
| FL18     | EH-413150J | FILTER EMI BLO3RN2-R62T4 T05   |
| FL19     | EH-413150J | FILTER EMI BLO3RN2-R62T4 T05   |
| FL20     | EH-413150J | FILTER EMI BLO3RN2-R62T4T05    |
| FL21     | EH-413150J | FILTER EMI BLO3RN2-R62T4 T05   |
| FL22     | EH-413150J | FILTER EMI BL03RN2-R62T4 T05   |
| FL23     | EH-413150J | FILTER EMI BLO3RN2-R62T4 T05   |
| FL24     | EH-413150J | FILTER EMI BLOSRN2-R62T4 T05   |
| FL25     | EH-413150J | FILTER EMI BLO3RN2-R62T4T05    |
| FL25     | EH-413150J | FILTER EMI BLOGRN2-R62T4 T05   |
| FL26     | EH-413150J | FILTER EMI BLOGRN2-R62T4 T05   |
| FL27     | EH-413150J | FILTER EMI BLO3RN2-R62T4 T05   |
| FL28     | EH-413150J | FILTER EMI BLOGRN2-R62T4 T05   |
|          |            |                                |

|  | Part No.  | Description   | 1       | Ref. No.  | Part No.  | Description  |
|--|---|---|---------|---|---|--|
| L29  | EH-413150J  | FILTER EMI BLO3RN2-R62T4 T05  |         | FS1   | △ EF-346880   | FUSE ICP-F15 50V 0.6A  |
| 30   | EH-413150J  | FILTER EMI BLO3RN2-R62T4 T05  | 1       | FS2   | △ EF-346880   | FUSE ICP-F15 50V 0.6A  |
| S1   | △EF-373142  | FUSE ICP-N25 50V 1.0A   |         | IC1   |   |  |
| 11   | EH-357538   | COMP R RKC1/885 103J  | 17      | IC2   | El-377191   | IC NJM5532D-D  |
|  |   |   |         |   | El-377191   | IC NJMSS32D-D  |
| 12   | EH-384817J  | COMP R RKC1/8B8 102J  |         | IC3   | El-360043   | IC M5220P  |
| 3  | EH-408860J  | COMP R RKC1/889 111J  | - 1     | IC4   | El-360043   | IC M5220P  |
| 14   | EH-408860J  | COMP R RKC1/889 111J  | - 4     | IC5   | El-810412J  | ICAK5340-VS  |
| 5  | EH-810378J  | COMP R RGSD10L503G 503G   | - 4     | IC6   | El-377101   | IC UPC7805HF   |
| 1  | El-430684J  | IC UPD70236AGD-16-5BB   | - 3     | IC8   | El-412279J1   | IC PCM69AP-4   |
| 2  | EI-430680J  | IC M51957AL   | - 0     | IC9   | El-377101   | IC UPC7805HF   |
| 3  | El-381290J1   | ICTC74HC245AF   |         |   |   |  |
| 4  |   | IC PALCE20V8Q-15PC L4013A   | - 1     | IC10  | El-360043   | IC M5220P  |
|  | El-810379J  |   | - 1     | IC11  | El-360043   | IC M5220P  |
| 5  | EI-810328J  | IC MC74AG257M   | - 1     | IC12  | EI-393325N  | IC M5218AP   |
| 6  | El-810328J  | IC MC74AC257M   | 1       | IC13  | EI-393325N  | IC M5218AP   |
| 7  | EI-810380J  | IC HD74AC00FP   | -       | IC14  | EI-353227   | IC M5216L  |
| 8  | El-401217J  | IC HD74HC32FP   | - 1     | IC15  | EI-430681J  | IC M51958AL  |
| 9  | EI-810153J  | IC HM514260CLTT-7   |         | J201  | EJ-810624J  |  |
| 10   | EI-810153J  |   | - 1     |   |   | PHONE J 3P HTJ-06411D 6.3  |
|  |   | IC HM514260CLTT-7   | - 4     | J202  | EJ-810624J  | PHONE J 3P HTJ-06411D 6.3  |
| 11   | EI-393695J  | IC HD74HC154P   | 1       | J203  | EJ-354105   | PHONE J 2P HLJ0520-110 6.3   |
| 12-A   | El-810381J  | ICAM27C256-150DC MPC2000V1.00   |         | J204  | EJ-354105   | PHONE J 2P HLJ0520-110 6.3   |
|  |   | [PROGRAM ROM]   | 1       |   | EJ-810624J  | PHONE J 3P HTJ-06411D 6.3  |
| 12-B   | EI-397343J  | ICAM27C2564750DC  | 1       | L1  | EO-345990N  | [[ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [   |
|  | 7-1-0-100   | [BLANK ROM]   |         |   |   | COIL FIX 1 EL0606RA T05 470J   |
| 13   | El-4012121  |   |         | RL1   | EQ-348929   | RELAY SIG G5A-237P 2TR 12V   |
|  | El-401213J  | IC MB89371A-PF-G-BND QF   |         | R67   | ER-430691N  | ROMF H S12 FS RSS1 1W 101J   |
| 14   | El-401217J  | IC HD74HC32FP   |         | R68   | ER-430691N  | R OMF H S12 FS R\$S1 1W 101J   |
| 15   | El-810382J  | IC HD74HC259FP  |         | TR1   | ET-366753N  | TR DTA114ES T05  |
| 16   | EI-430943J  | IC HD74AC74FP   |         | W203  | EW-810415J  | WIRE ASSY L4013 W203 20P   |
| 17   | El-396531J  | IC UPD72068GF-3B9   |         | V6300000  |   | 201  |
| 18   | El-810047J  | IC MB89352A-PFQ QFTY  |         |   |   |  |
| 19   | El-410389J  | IC PQ30RV1  |         | 5 VD C  | C. BOARD  |  |
| 520  |   |   | 7, 10   | J. VIT  | .C. BUARD   |  |
| 21   | El-413120J<br>El-429988J  | IC L7A1045 L6028 DSP-A<br>IC AV9173-01-CN8  |         | Ref. No.  | Part No.  | Description  |
|  |   | T   |         |   |   |  |
| 222  | El-376741J1   | ICTC74HC244AF   |         | VR201   | EV-810416J  | VR ROTARY RK0971220 L25 B103X2   |
| 23   | EI-810383J  | IC HD74HC4060FP   | 1.      | VR202   | EV-810417J  | VR ROTARY RK0971220 L25 C503X2   |
| 24   | EI-430673J  | IC PALCE20V8Q-15PC L6039A   | - F - 1 |   |   |  |
| 225  | El-810613J  | IC PALCE16V8Q-15PC L4013C   | 1       |   |   |  |
| 26   | EI-810268J  | IC HD74HC273FP  | - 1     |   |   |  |
| 27   | El-810269J  | IC HD74HC595FP  |         | 6 1 00  | -J P.C. BOAR  | D  |
| 28   |   |   |         | o. LCD  | -J P.C. BUAH  | U  |
|  | El-810269J  | IC HD74HC595FP  | 4       | 2.50  | 22 72   |  |
| 29   | El-430943J  | IC HD74AC74FP   |         | Ref. No.  | Part No.  | Description  |
| 30   | El-810384J  | IC PALCE20V8Q-15PC L4013B   |         |   |   |  |
| 31   | EI-810385J  | IC HM5118160ALTT-7  |         | P3  | EJ-810418J  | SOCKET SLD19S-1 19P  |
| 32   | El-377047   | IC M5223FP  |         | W204  | EW-810419J  | WIRE ASSY L4013 W204 20P   |
| 33   | El-810382J  | IC HD74HC259FP  |         | ALCOHOLD !  |   | 201  |
| 34   | El-810386J  | IC HD74HC174FP  |         |   |   |  |
|  |   |   |         |   |   |  |
| 35   | El-430936J  | IC HD74AC04FP   |         | -   |   |  |
|  | EJ-430956J  | DIN J YKF51-5058 2X5P   | 4       | 7. PAN  | EL P.C. BOAF  | RD   |
| 2  | EJ-428182J  | SOCKET DBLC-J25SAF-20L9 25P   |         |   |   |  |
| i  | EJ-430956J  | DIN J YKF51-5058 2X5P   |         | Ref. No.  | Part No.  | Description  |
|  | EJ-430687J  | SOCKET 128A-044S2A-S14N 44P   |         |   | 7 un 140.   | Coscipion  |
|  |   |   |         |   | CD 04   | D150 01 0100   |
|  |   |   | 1       |   |   | D LED GL-3KG8  |
| 5  | EJ-424423J  | SOCKET 6-176438-7 72P   |         | D1  | ED-810393J  |  |
|  | EJ-424423J<br>EJ-424423J  | SOCKET 6-176438-7 72P<br>SOCKET 6-176438-7 72P  |         | D2  | ED-388539J  | D LED GL-3HD43   |
|  | EJ-424423J  | SOCKET 6-176438-7 72P   |         |   |   |  |
|  | EJ-424423J<br>EJ-424423J  | SOCKET 6-176438-7 72P<br>SOCKET 6-176438-7 72P  |         | D2  | ED-388539J<br>ED-388539J  | D LED GL-3HD43<br>D LED GL-3HD43   |
| 11   | EJ-424423J<br>EJ-424423J<br>EJ-810388J<br>ET-430926J  | SOCKET 6-176438-7 72P<br>SOCKET 6-176438-7 72P<br>SOCKET 225D-10018E2-2314 18P<br>DETECTOR PC400  |         | D2<br>D3<br>D4  | ED-388539J<br>ED-388539J<br>ED-810393J  | D LED GL-3HD43<br>D LED GL-3HD43<br>D LED GL-3KGB  |
| 5<br>7<br>H1<br>H2   | EJ-424423J<br>EJ-424423J<br>EJ-810388J<br>ET-430926J<br>ET-430926J  | SOCKET 6-176438-7 72P<br>SOCKET 6-176438-7 72P<br>SOCKET 225D-10018E2-2314 18P<br>DETECTOR PC400<br>DETECTOR PC400  |         | D2<br>D3<br>D4<br>D5  | ED-388539J<br>ED-388539J<br>ED-810393J<br>ED-388539J  | D LED GL-3HD43<br>D LED GL-3HD43<br>D LED GL-3KG8<br>D LED GL-3HD43  |
| H1<br>H2   | EJ-424423J<br>EJ-424423J<br>EJ-810388J<br>ET-430926J<br>ET-430926J<br>EJ-810389J  | SOCKET 6-176438-7 72P<br>SOCKET 6-176438-7 72P<br>SOCKET 225D-10018E2-2314 18P<br>DETECTOR PC400<br>DETECTOR PC400<br>PLUG RA-H201TD-1190 20P   |         | D2<br>D3<br>D4<br>D5<br>D6  | ED-388539J<br>ED-388539J<br>ED-810393J<br>ED-388539J<br>ED-810393J  | D LED GL-3HD43<br>D LED GL-3HD43<br>D LED GL-3KG8<br>D LED GL-3HD43<br>D LED GL-3KG8   |
| H1<br>H2<br>2  | EJ-424423J<br>EJ-424423J<br>EJ-810388J<br>ET-430926J<br>ET-430926J<br>EJ-810389J<br>EJ-430689J  | SOCKET 6-176438-7 72P<br>SOCKET 6-176438-7 72P<br>SOCKET 2250-10018E2-2314 18P<br>DETECTOR PC400<br>DETECTOR PC400<br>PLUG RA-H201TD-1190 20P<br>PLUG 128A-060P3C-514N 60P  |         | D2<br>D3<br>D4<br>D5<br>D6<br>D7  | ED-388539J<br>ED-388539J<br>ED-810393J<br>ED-388539J  | D LED GL-3HD43<br>D LED GL-3HD43<br>D LED GL-3KG8<br>D LED GL-3HD43  |
| 5<br>7<br>H1<br>H2<br>2<br>3<br>5  | EJ-424423J<br>EJ-424423J<br>EJ-810388J<br>ET-430926J<br>ET-430926J<br>EJ-810389J<br>EJ-430689J<br>EJ-429927J  | SOCKET 6-176438-7 72P<br>SOCKET 6-176438-7 72P<br>SOCKET 2250-10018E2-2314 18P<br>DETECTOR PC400<br>DETECTOR PC400<br>PLUG RA-H201TD-1190 20P<br>PLUG 128A-060P3C-\$14N 60P<br>PLUG 302-20GSB 20P   |         | D2<br>D3<br>D4<br>D5<br>D6  | ED-388539J<br>ED-388539J<br>ED-810393J<br>ED-388539J<br>ED-810393J  | D LED GL-3HD43<br>D LED GL-3HD43<br>D LED GL-3KG8<br>D LED GL-3HD43<br>D LED GL-3KG8   |
| 5<br>7<br>H1<br>H2<br>2<br>3<br>5  | EJ-424423J<br>EJ-424423J<br>EJ-810388J<br>ET-430926J<br>ET-430926J<br>EJ-810389J<br>EJ-430689J  | SOCKET 6-176438-7 72P<br>SOCKET 6-176438-7 72P<br>SOCKET 2250-10018E2-2314 18P<br>DETECTOR PC400<br>DETECTOR PC400<br>PLUG RA-H201TD-1190 20P<br>PLUG 128A-060P3C-514N 60P  |         | D2<br>D3<br>D4<br>D5<br>D6<br>D7  | ED-388539J<br>ED-388539J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J  | D LED GL-3HD43 D LED GL-3HD43 D LED GL-3KG8 D LED GL-3HD43 D LED GL-3KG8 D LED GL-3KG8 D LED GL-3KG8   |
| H1<br>H2<br>2<br>3<br>5  | EJ-424423J<br>EJ-424423J<br>EJ-810388J<br>ET-430926J<br>ET-430926J<br>EJ-810389J<br>EJ-430689J<br>EJ-429927J  | SOCKET 6-176438-7 72P<br>SOCKET 6-176438-7 72P<br>SOCKET 225D-10018E2-2314 18P<br>DETECTOR PC400<br>DETECTOR PC400<br>PLUG RA-H2017D-1190 20P<br>PLUG 128A-060P3C-S14N 60P<br>PLUG 302-20GSB 20P<br>PLUG 302-20GSB 20P  |         | D2<br>D3<br>D4<br>D5<br>D6<br>D7<br>D8<br>D9  | ED-388539J<br>ED-388539J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J  | D LED GL-3HD43 D LED GL-3HD43 D LED GL-3HG8 D LED GL-3HD43 D LED GL-3HG8 D LED GL-3KG8   |
| H1 H2 2  | EJ-424423J<br>EJ-424423J<br>EJ-810388J<br>ET-430926J<br>EJ-810389J<br>EJ-430689J<br>EJ-429927J<br>EJ-429927J<br>EJ-429929J  | SOCKET 6-176438-7 72P<br>SOCKET 6-176438-7 72P<br>SOCKET 2250-10018E2-2314 18P<br>DETECTOR PC400<br>DETECTOR PC400<br>PLUG RA-H201TD-1190 20P<br>PLUG 128A-060P3C-514N 60P<br>PLUG 302-20GSB 20P<br>PLUG 302-20GSB 20P<br>PLUG 302-24GSB 30P<br>PLUG 302-34GSB 34P  |         | D2<br>D3<br>D4<br>D5<br>D6<br>D7<br>D8<br>D9  | ED-388539J<br>ED-388539J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J  | D LED GL-3HD43 D LED GL-3HD43 D LED GL-3KG8  |
| H1<br>H2<br>2<br>3<br>3<br>5<br>7  | EJ-424423J<br>EJ-424423J<br>EJ-424423J<br>ET-430928J<br>ET-430928J<br>EJ-430889J<br>EJ-429927J<br>EJ-429927J<br>EJ-429929J<br>EW-810390J  | SOCKET 6-176438-7 72P<br>SOCKET 6-176438-7 72P<br>SOCKET 2250-10018E2-2314 18P<br>DETECTOR PC400<br>DETECTOR PC400<br>PLUG RA-H201TD-1190 20P<br>PLUG 128A-060P3C-514N 60P<br>PLUG 302-20GSB 20P<br>PLUG 302-20GSB 20P<br>PLUG 302-34GSB 34P<br>WIRE ASSY L4013 W101 34P  |         | D2<br>D3<br>D4<br>D5<br>D6<br>D7<br>D8<br>D9<br>D10<br>D11  | ED-388539J<br>ED-388539J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J  | D LED GL-3HD43 D LED GL-3HD43 D LED GL-3KG8  |
| H1<br>H2<br>2<br>3<br>5<br>7   | EJ-424423J<br>EJ-424423J<br>EJ-424423J<br>EJ-430926J<br>ET-430926J<br>EJ-430689J<br>EJ-430689J<br>EJ-429927J<br>EJ-429927J<br>EJ-429929J<br>EW-810390J<br>El-396541J  | SOCKET 6-176438-7 72P<br>SOCKET 6-176438-7 72P<br>SOCKET 2250-10018E2-2314 18P<br>DETECTOR PC400<br>DETECTOR PC400<br>PLUG RA-H201TD-1190 20P<br>PLUG 128A-060P3C-514N 60P<br>PLUG 302-20GSB 20P<br>PLUG 302-20GSB 20P<br>PLUG 302-34GSB 34P<br>WIRE ASSY L4013 W101 34P<br>OSC XTALHC-49/U 32.000000MHZ  |         | D2<br>D3<br>D4<br>D5<br>D6<br>D7<br>D8<br>D9<br>D10<br>D11<br>D12   | ED-388539J<br>ED-388539J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-8404280  | D LED GL-3HD43 D LED GL-3HD43 D LED GL-3KG8 D SILICON H GMA-01-FY2 F05   |
| H1<br>H2<br>2<br>3<br>5<br>7   | EJ-424423J<br>EJ-424423J<br>EJ-424423J<br>ET-430928J<br>ET-430928J<br>EJ-430889J<br>EJ-429927J<br>EJ-429927J<br>EJ-429929J<br>EW-810390J  | SOCKET 6-176438-7 72P<br>SOCKET 6-176438-7 72P<br>SOCKET 2250-10018E2-2314 18P<br>DETECTOR PC400<br>DETECTOR PC400<br>PLUG RA-H201TD-1190 20P<br>PLUG 128A-060P3C-514N 60P<br>PLUG 302-20GSB 20P<br>PLUG 302-20GSB 20P<br>PLUG 302-34GSB 34P<br>WIRE ASSY L4013 W101 34P  |         | D2<br>D3<br>D4<br>D5<br>D6<br>D7<br>D8<br>D9<br>D10<br>D11<br>D12<br>D13  | ED-388539J<br>ED-388539J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J  | D LED GL-3HD43 D LED GL-3HD43 D LED GL-3KG8  |
| H1<br>H2<br>2<br>3<br>5<br>5<br>7<br>7   | EJ-424423J<br>EJ-424423J<br>EJ-424423J<br>EJ-430926J<br>ET-430926J<br>EJ-430689J<br>EJ-430689J<br>EJ-429927J<br>EJ-429927J<br>EJ-429929J<br>EW-810390J<br>El-396541J  | SOCKET 6-176438-7 72P<br>SOCKET 6-176438-7 72P<br>SOCKET 2250-10018E2-2314 18P<br>DETECTOR PC400<br>DETECTOR PC400<br>PLUG RA-H201TD-1190 20P<br>PLUG 128A-060P3C-514N 60P<br>PLUG 302-20GSB 20P<br>PLUG 302-20GSB 20P<br>PLUG 302-34GSB 34P<br>WIRE ASSY L4013 W101 34P<br>OSC XTALHC-49/U 32.000000MHZ  |         | D2<br>D3<br>D4<br>D5<br>D6<br>D7<br>D8<br>D9<br>D10<br>D11<br>D12   | ED-388539J<br>ED-388539J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-8404280  | D LED GL-3HD43 D LED GL-3HD43 D LED GL-3KG8 D SILICON H GMA-01-FY2 F05   |
| 111<br>142<br>2<br>3<br>5<br>5<br>5<br>7<br>7  | EJ-424423J<br>EJ-424423J<br>EJ-81038BJ<br>ET-430926J<br>EJ-810389J<br>EJ-430689J<br>EJ-429927J<br>EJ-429927J<br>EJ-429929J<br>EW-810390J<br>EI-396541J<br>EI-414959J  | SOCKET 6-176438-7 72P<br>SOCKET 6-176438-7 72P<br>SOCKET 2250-10018E2-2314 18P<br>DETECTOR PC400<br>DETECTOR PC400<br>PLUG RA-H201TD-1190 20P<br>PLUG 128A-060P3C-514N 60P<br>PLUG 302-20GSB 20P<br>PLUG 302-20GSB 20P<br>PLUG 302-34GSB 34P<br>WIRE ASSY L4013 W101 34P<br>OSC XTALHC-49/U 32.000000MHZ  |         | D2<br>D3<br>D4<br>D5<br>D6<br>D7<br>D8<br>D9<br>D10<br>D11<br>D12<br>D13  | ED-388539J<br>ED-388539J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-344280<br>ED-344280<br>ED-344280   | D LED GL-3HD43 D LED GL-3HD43 D LED GL-3KG8 D SULCON H GMA-01-FY2 F05 D SILICON H GMA-01-FY2 F05   |
| 111<br>142<br>2<br>3<br>5<br>5<br>5<br>7<br>7  | EJ-424423J<br>EJ-424423J<br>EJ-424423J<br>EJ-430926J<br>ET-430926J<br>EJ-430689J<br>EJ-430689J<br>EJ-429927J<br>EJ-429927J<br>EJ-429929J<br>EW-810390J<br>El-396541J  | SOCKET 6-176438-7 72P<br>SOCKET 6-176438-7 72P<br>SOCKET 2250-10018E2-2314 18P<br>DETECTOR PC400<br>DETECTOR PC400<br>PLUG RA-H201TD-1190 20P<br>PLUG 128A-060P3C-514N 60P<br>PLUG 302-20GSB 20P<br>PLUG 302-20GSB 20P<br>PLUG 302-34GSB 34P<br>WIRE ASSY L4013 W101 34P<br>OSC XTALHC-49/U 32.000000MHZ  |         | D2<br>D3<br>D4<br>D5<br>D6<br>D7<br>D8<br>D9<br>D10<br>D11<br>D12<br>D13<br>D14<br>D15  | ED-388539J<br>ED-388539J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-844280<br>ED-344280<br>ED-344280<br>ED-344280  | D LED GL-3HD43 D LED GL-3HD43 D LED GL-3KG8 D SULCON H GMA-01-FY2 F05 D SILICON H GMA-01-FY2 F05 D SILICON H GMA-01-FY2 F05  |
| 111<br>142<br>2<br>3<br>5<br>5<br>5<br>7<br>7  | EJ-424423J<br>EJ-424423J<br>EJ-81038BJ<br>ET-430926J<br>EJ-810389J<br>EJ-430689J<br>EJ-429927J<br>EJ-429927J<br>EJ-429929J<br>EW-810390J<br>EI-396541J<br>EI-414959J  | SOCKET 6-176438-7 72P<br>SOCKET 6-176438-7 72P<br>SOCKET 2250-10018E2-2314 18P<br>DETECTOR PC400<br>DETECTOR PC400<br>PLUG RA-H201TD-1190 20P<br>PLUG 128A-060P3C-514N 60P<br>PLUG 302-20GSB 20P<br>PLUG 302-20GSB 20P<br>PLUG 302-34GSB 34P<br>WIRE ASSY L4013 W101 34P<br>OSC XTALHC-49/U 32.000000MHZ  |         | D2<br>D3<br>D4<br>D5<br>D6<br>D7<br>D8<br>D9<br>D10<br>D11<br>D12<br>D13<br>D14<br>D15<br>D16   | ED-388539J<br>ED-388539J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280   | D LED GL-3HD43 D LED GL-3HD43 D LED GL-3KG8 D SILICON H GMA-01-FY2 F05   |
| H1 H2 2 3 3 5 5 7 7 101 1 2 2 . ADA  | EJ-424423J<br>EJ-424423J<br>EJ-810388J<br>ET-430926J<br>EJ-430889J<br>EJ-430889J<br>EJ-429927J<br>EJ-429927J<br>EJ-429927J<br>EJ-429929J<br>EW-810390J<br>EI-396541J<br>EI-414959J  | SOCKET 6-176438-7 72P<br>SOCKET 6-176438-7 72P<br>SOCKET 2250-10010E2-2314 18P<br>DETECTOR PC400<br>DETECTOR PC400<br>PLUG RA-H201TD-1190 20P<br>PLUG 128A-060P3C-514N 60P<br>PLUG 302-20GSB 20P<br>PLUG 302-20GSB 20P<br>PLUG 302-34GSB 34P<br>WIRE ASSY L4013 W101 34P<br>OSC XTAL HC-49/U 32.000000MHZ<br>OSC XTALAT-51 11.289600MHZ   |         | D2<br>D3<br>D4<br>D5<br>D6<br>D7<br>D8<br>D9<br>D10<br>D11<br>D12<br>D13<br>D14<br>D15<br>D16<br>D17  | ED-388539J<br>ED-388539J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280   | D LED GL-3HD43 D LED GL-3HD43 D LED GL-3KG8 D SULCON H GMA-01-FY2 F05 D SULCON H GMA-01-FY2 F05 D SILICON H GMA-01-FY2 F05   |
| 5 5 7 H1 H2 2 2 3 5 5 6 7 7 101 1 2 2 . ADA  | EJ-424423J<br>EJ-424423J<br>EJ-81038BJ<br>ET-430926J<br>EJ-810389J<br>EJ-430689J<br>EJ-429927J<br>EJ-429927J<br>EJ-429929J<br>EW-810390J<br>EI-396541J<br>EI-414959J  | SOCKET 6-176438-7 72P<br>SOCKET 6-176438-7 72P<br>SOCKET 2250-10018E2-2314 18P<br>DETECTOR PC400<br>DETECTOR PC400<br>PLUG RA-H201TD-1190 20P<br>PLUG 128A-060P3C-514N 60P<br>PLUG 302-20GSB 20P<br>PLUG 302-20GSB 20P<br>PLUG 302-34GSB 34P<br>WIRE ASSY L4013 W101 34P<br>OSC XTALHC-49/U 32.000000MHZ  |         | D2<br>D3<br>D4<br>D5<br>D6<br>D7<br>D8<br>D9<br>D10<br>D11<br>D12<br>D13<br>D14<br>D15<br>D16<br>D16<br>D17<br>D18  | ED-388539J<br>ED-388539J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280   | D LED GL-3HD43 D LED GL-3HD43 D LED GL-3KG8 D SILICON H GMA-01-FY2 F05   |
| H1<br>H2<br>2<br>3<br>5<br>5<br>7<br>7<br>7<br>7<br>1001<br>1<br>2<br>. ADA  | EJ-424423J<br>EJ-424423J<br>EJ-810388J<br>ET-430926J<br>EJ-430889J<br>EJ-430889J<br>EJ-429927J<br>EJ-429927J<br>EJ-429927J<br>EJ-429929J<br>EW-810390J<br>EI-396541J<br>EI-414959J  | SOCKET 6-176438-7 72P<br>SOCKET 6-176438-7 72P<br>SOCKET 2250-10010E2-2314 18P<br>DETECTOR PC400<br>DETECTOR PC400<br>PLUG RA-H201TD-1190 20P<br>PLUG 128A-060P3C-514N 60P<br>PLUG 302-20GSB 20P<br>PLUG 302-20GSB 20P<br>PLUG 302-34GSB 34P<br>WIRE ASSY L4013 W101 34P<br>OSC XTAL HC-49/U 32.000000MHZ<br>OSC XTALAT-51 11.289600MHZ   |         | D2<br>D3<br>D4<br>D5<br>D6<br>D7<br>D8<br>D9<br>D10<br>D11<br>D12<br>D13<br>D14<br>D15<br>D16<br>D17  | ED-388539J<br>ED-388539J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280   | D LED GL-3HD43 D LED GL-3HD43 D LED GL-3KG8 D SILICON H GMA-01-FY2 F05   |
| 5 5 7 7 H1 H2 2 2 3 5 5 5 7 7 101 1 2 2 . ADA  | EJ-424423J<br>EJ-424423J<br>EJ-810388J<br>ET-430926J<br>EJ-430889J<br>EJ-430889J<br>EJ-429927J<br>EJ-429927J<br>EJ-429927J<br>EJ-429929J<br>EW-810390J<br>EI-396541J<br>EI-414959J  | SOCKET 6-176438-7 72P<br>SOCKET 6-176438-7 72P<br>SOCKET 2250-10010E2-2314 18P<br>DETECTOR PC400<br>DETECTOR PC400<br>PLUG RA-H201TD-1190 20P<br>PLUG 128A-060P3C-514N 60P<br>PLUG 302-20GSB 20P<br>PLUG 302-20GSB 20P<br>PLUG 302-34GSB 34P<br>WIRE ASSY L4013 W101 34P<br>OSC XTAL HC-49/U 32.000000MHZ<br>OSC XTALAT-51 11.289600MHZ   |         | D2<br>D3<br>D4<br>D5<br>D6<br>D7<br>D8<br>D9<br>D10<br>D11<br>D12<br>D13<br>D14<br>D15<br>D16<br>D17<br>D18<br>D19  | ED-388539J<br>ED-388539J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280   | D LED GL-3HD43 D LED GL-3HD43 D LED GL-3HG8 D LED GL-3KG8 D SILICON H GMA-01-FY2 F05  |
| 5 5 6 7 7 101 1 2 2 . ADA  | EJ-424423J EJ-424423J EJ-810388J ET-430926J ET-430926J EJ-430689J EJ-429927J EJ-429927J EJ-429927J EJ-449959J P.C. BOARD Part No. ED-344280   | SOCKET 6-176438-7 72P SOCKET 5-176438-7 72P SOCKET 2250-1001862-2314 18P DETECTOR PC400 DETECTOR PC400 PLUG RA-H201TD-1190 20P PLUG 128A-060P3C-514N 60P PLUG 302-20GSB 20P PLUG 302-20GSB 20P PLUG 302-20GSB 34P WIRE ASSY 1,4013 W101 34P OSC XTALHC-49/U 32.000000MHZ OSC XTALAT-51 11.289600MHZ  Description D SILICON H GMA-01-FY2 F05   |         | D2<br>D3<br>D4<br>D5<br>D6<br>D7<br>D8<br>D9<br>D10<br>D11<br>D12<br>D13<br>D14<br>D15<br>O16<br>D17<br>D16<br>D17<br>D18<br>D19<br>D20   | ED-388539J<br>ED-388539J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-3442 | D LED GL-3HD43 D LED GL-3HD43 D LED GL-3KG8 D SILICON H GMA-01-FY2 F05 D ZENER H HZSSB1 T26   |
| H1 H2 2 2 3 5 5 7 7 1001 1 2 2 . ADA   | EJ-424423J EJ-424423J EJ-424423J EJ-810388J ET-430926J EJ-430926J EJ-430689J EJ-429927J EJ-429927J EJ-429929J EW-810390J EJ-396541J EJ-414959J  P.C. BOARD Part No. ED-344280 ED-389834J  | SOCKET 6-176438-7 72P SOCKET 2525-10018E2-2314 18P DETECTOR PC400 DETECTOR PC400 PLUG RA-H201TD-1190 20P PLUG 128A-060P3C-514N 60P PLUG 302-20GSB 20P PLUG 302-20GSB 20P PLUG 302-20GSB 34P WIRE ASSY L4013 W101 34P OSC XTAL HC-49/U 32.000000MHZ OSC XTALAT-51 11.289600MHZ  Description  D SILICON H GMA-01-FY2 F05 D SILICON DS135E-FB2 F12 100/1   |         | D2<br>D3<br>D4<br>D5<br>D6<br>D7<br>D8<br>D9<br>D10<br>D11<br>D12<br>D13<br>D14<br>D15<br>D16<br>D17<br>D18<br>D17<br>D18<br>D19<br>D19<br>D19<br>D19<br>D19<br>D19<br>D19<br>D19<br>D19<br>D19 | ED-388539J<br>ED-388539J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280  | D LED GL-3HD43 D LED GL-3HD43 D LED GL-3KG8 D SILICON H GMA-01-FY2 F05 D ZENER H HZSSB1 T26 D SILICON H GMA-01-FY2 F05 D ZENER H HZSSB1 T26 D SILICON H GMA-01-FY2 F05   |
| H1 H2 2 2 3 3 5 5 7 7 1001 1 2 2 . ADA   | EJ-424423J EJ-424423J EJ-810388J ET-430926J ET-430926J EJ-810389J EJ-430689J EJ-429927J EJ-429927J EJ-429927J EJ-429929J EW-810390J EJ-414959J P.C. BOARD Part No. ED-344280 ED-389834J EH-410420J                                    | SOCKET 6-176438-7 72P SOCKET 6-176438-7 72P SOCKET 6-176438-7 72P SOCKET 250-10018E2-2314 18P DETECTOR PC400 DETECTOR PC400 PLUG RA-H201TD-1190 20P PLUG 128A-060P3C-S14N 60P PLUG 302-20GSB 20P PLUG 302-20GSB 20P PLUG 302-34GSB 34P WIRE ASSY L4013 W101 34P OSC XTAL HC-49U 32.00000MHZ OSC XTALAT-51 11.289600MHZ  Description  D SILICON H GMA-01-FY2 F05 D SILICON DS135E-F82 F12 100/1 FILTER EMI DSS306-93B101 MT05                                |         | D2<br>D3<br>D4<br>D5<br>D6<br>D7<br>D8<br>D9<br>D10<br>D11<br>D12<br>D13<br>D14<br>D15<br>O16<br>D17<br>D18<br>D19<br>D20<br>D21<br>D22   | ED-388539J<br>ED-388539J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-412105N<br>ED-344280<br>ED-412105N  | D LED GL-3HD43 D LED GL-3HD43 D LED GL-3KG8 D SILICON H GMA-01-FY2 F05 D ZENER H HZSSB1 T26 D SILICON H GMA-01-FY2 F05 D ZENER H HZSSB1 T26 D SILICON H GMA-01-FY2 F05 D ZENER H HZSSB1 T26 D SILICON H GMA-01-FY2 F05 D ZENER H HZSSB1 T26  |
| 5 5 6 7 7 1101 1 2 2 2 3 3 5 6 6 7 7 1101 1 2 2 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6  | EJ-424423J EJ-424423J EJ-424423J EJ-810388J ET-430926J EJ-430926J EJ-430689J EJ-429927J EJ-429927J EJ-429927J EJ-429929J EW-810390J EI-414959J P.C. BOARD Part No.  ED-344280 ED-389834J EH-410420J EH-410420J                        | SOCKET 6-176438-7 72P SOCKET 2525-10018E2-2314 18P DETECTOR PC400 DETECTOR PC400 DETECTOR PC400 PLUG RA-H201TD-1190 20P PLUG 128A-060P3C-514N 60P PLUG 302-20GSB 20P PLUG 302-20GSB 20P PLUG 302-20GSB 20P PLUG 302-304GSB 34P WIRE ASSY 1,4013 W101 34P OSC XTALHC-49/U 32-000000MHZ OSC XTALAT-51 11-289600MHZ  Description  D SILICON H GMA-01-FY2 F05 D SILICON DS135E-FB2 F12 100/1 FILTER EMI DSS306-93B101MT05 FILTER EMI DSS306-93B101MT05          |         | D2<br>D3<br>D4<br>D5<br>D6<br>D7<br>D8<br>D9<br>D10<br>D11<br>D12<br>D13<br>D14<br>D15<br>D16<br>D17<br>D18<br>D17<br>D18<br>D19<br>D19<br>D19<br>D19<br>D19<br>D19<br>D19<br>D19<br>D19<br>D19 | ED-388539J<br>ED-388539J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280  | D LED GL-3HD43 D LED GL-3HD43 D LED GL-3KG8 D SILICON H GMA-01-FY2 F05 D ZENER H HZSSB1 T26 D SILICON H GMA-01-FY2 F05 D ZENER H HZSSB1 T26 D SILICON H GMA-01-FY2 F05   |
| H1 H2 2 2 3 3 5 5 5 7 7 1101 1 2 2 2 4 6 1 No. 6 5 5 5 5 5 5 5 5 7 7 1 1 2 2 4 6 1 No. 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | EJ-424423J EJ-424423J EJ-810388J ET-430926J ET-430926J EJ-810389J EJ-430689J EJ-429927J EJ-429927J EJ-429927J EJ-429929J EW-810390J EJ-414959J P.C. BOARD Part No. ED-344280 ED-389834J EH-410420J                                    | SOCKET 6-176438-7 72P SOCKET 6-176438-7 72P SOCKET 6-176438-7 72P SOCKET 250-10018E2-2314 18P DETECTOR PC400 DETECTOR PC400 PLUG RA-H201TD-1190 20P PLUG 128A-060P3C-S14N 60P PLUG 302-20GSB 20P PLUG 302-20GSB 20P PLUG 302-34GSB 34P WIRE ASSY L4013 W101 34P OSC XTAL HC-49U 32.00000MHZ OSC XTALAT-51 11.289600MHZ  Description  D SILICON H GMA-01-FY2 F05 D SILICON DS135E-F82 F12 100/1 FILTER EMI DSS306-93B101 MT05                                |         | D2<br>D3<br>D4<br>D5<br>D6<br>D7<br>D8<br>D9<br>D10<br>D11<br>D12<br>D13<br>D14<br>D15<br>O16<br>D17<br>D18<br>D19<br>D20<br>D21<br>D22   | ED-388539J<br>ED-388539J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-84280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280   | D LED GL-3HD43 D LED GL-3HD43 D LED GL-3KG8 D SILICON H GMA-01-FY2 F05 D ZENER H HZSSB1 T26 D SILICON H GMA-01-FY2 F05 D ZENER H HZSSB1 T26 D SILICON H GMA-01-FY2 F05 D ZENER H HZSSB1 T26 D SILICON H GMA-01-FY2 F05 D ZENER H HZSSB1 T26 D SILICON H GMA-01-FY2 F05 D ZENER H HZSSB1 T26 D SILICON H GMA-01-FY2 F05 D ZENER H HZSSB1 T26   |
| 5 5 6 7 7 H1 H2 2 2 3 5 5 6 6 7 7 1001 1 2 2 . ADA   | EJ-424423J EJ-424423J EJ-424423J EJ-810388J ET-430926J EJ-430926J EJ-430689J EJ-429927J EJ-429927J EJ-429927J EJ-429929J EW-810390J EI-414959J P.C. BOARD Part No.  ED-344280 ED-389834J EH-410420J EH-410420J                        | SOCKET 6-176438-7 72P SOCKET 2525-10018E2-2314 18P DETECTOR PC400 DETECTOR PC400 DETECTOR PC400 PLUG RA-H201TD-1190 20P PLUG 128A-060P3C-514N 60P PLUG 302-20GSB 20P PLUG 302-20GSB 20P PLUG 302-20GSB 20P PLUG 302-304GSB 34P WIRE ASSY 1,4013 W101 34P OSC XTALHC-49/U 32-000000MHZ OSC XTALAT-51 11-289600MHZ  Description  D SILICON H GMA-01-FY2 F05 D SILICON DS135E-FB2 F12 100/1 FILTER EMI DSS306-93B101MT05 FILTER EMI DSS306-93B101MT05          |         | D2<br>D3<br>D4<br>D5<br>D6<br>D7<br>D8<br>D9<br>D10<br>D11<br>D12<br>D13<br>D14<br>D15<br>D16<br>D17<br>D18<br>D19<br>D20<br>D21<br>D22<br>D22<br>D23   | ED-388539J<br>ED-388539J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-412105N<br>ED-412105N<br>ED-412105N<br>ED-344280<br>ED-412105N<br>ED-344280<br>ED-412105N<br>ED-344280<br>ED-412105N<br>ED-344280<br>ED-412105N<br>ED-344280<br>ED-412105N   | D LED GL-3HD43 D LED GL-3HD43 D LED GL-3KG8 D SILICON H GMA-01-FY2 F05 D ZENER H HZSSB1 T26 D SILICON H GMA-01-FY2 F05 D ZENER H HZSSB1 T26 D SILICON H GMA-01-FY2 F05 D ZENER H HZSSB1 T26 D SILICON H GMA-01-FY2 F05 D ZENER H HZSSB1 T26 D SILICON H GMA-01-FY2 F05 D ZENER H HZSSB1 T26 D SILICON H GMA-01-FY2 F05 D ZENER H HZSSB1 T26 |
| 6 5 6 6 7 7 1101 1 2 2 3 3 5 5 6 6 7 7 1101 1 2 2 6 6 1. No. 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6                           | EJ-424423J EJ-424423J EJ-424423J EJ-810388J ET-430926J EJ-430926J EJ-430689J EJ-429927J EJ-429927J EJ-429927J EJ-429929J EW-810390J EJ-396541J EI-414959J  P.C. BOARD Part No.  ED-344280 ED-389834J EH-410420J EH-410420J EH-410420J | SOCKET 6-176438-7 72P SOCKET 6-176438-7 72P SOCKET 2250-10010E2-2314 18P DETECTOR PC400 DETECTOR PC400 PLUG RA-H201TD-1190 20P PLUG 302-20GSB 20P PLUG 302-20GSB 20P PLUG 302-20GSB 20P PLUG 302-24GSB 34P WIRE ASSY L4013 W101 34P OSC XTAL HC-49/U 32,000000MHZ OSC XTALAT-51 11.289600MHZ  Description  D SILICON H GMA-01-FY2 F05 D SILICON DS135E-FB2 F12 100/1 FILTER EMI DSS306-93B101MT05 FILTER EMI DSS306-93B101MT05 FILTER EMI DSS306-93B101MT05 |         | D2<br>D3<br>D4<br>D5<br>D6<br>D7<br>D8<br>D9<br>D10<br>D11<br>D12<br>D13<br>D14<br>D15<br>O16<br>D17<br>D18<br>D19<br>D20<br>D21<br>D20<br>D21  | ED-388539J<br>ED-388539J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-810393J<br>ED-84280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280<br>ED-344280   | D LED GL-3HD43 D LED GL-3HD43 D LED GL-3KG8 D SILICON H GMA-01-FY2 F05 D ZENER H HZSSB1 T26 D SILICON H GMA-01-FY2 F05 D ZENER H HZSSB1 T26 D SILICON H GMA-01-FY2 F05 D ZENER H HZSSB1 T26 D SILICON H GMA-01-FY2 F05 D ZENER H HZSSB1 T26 D SILICON H GMA-01-FY2 F05 D ZENER H HZSSB1 T26 D SILICON H GMA-01-FY2 F05 D ZENER H HZSSB1 T26   |

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- PARTS LIST -

| Ref, No.     | Part No.                 | Description                                |
|--------------|--------------------------|--|
| 028          | ED-344280                | D SILICON H GMA-01-FY2 F05                 |
| D29          | ED-344280                | D SILICON H GMA-01-FY2 F05                 |
| D30          | ED-344280                | D SILICON H GMA-01-FY2 F05                 |
| D31          | ED-344280                | D SILICON H GMA-01-FY2 F05                 |
| D32          | ED-344280                | D SILICON H GMA-01-FY2 F05                 |
| D33          | ED-344280                | D SILICON H GMA-01-FY2 F05                 |
| D34          | ED-344280                | D SILICON H GMA-01-FY2 F05                 |
| D35          | ED-344280                | D SILICON H GMA-01-FY2 F05                 |
| D36          | ED-344280                | D SILICON H GMA-01-FY2 F05                 |
| D37          | ED-344280                | D SILICON H GMA-01-FY2 F05                 |
| D38          | ED-344280                | D SILICON H GMA-01-FY2 F05                 |
| D39          | ED-344280                | D SILICON H GMA-01-FY2 F05                 |
| D40<br>D41   | ED-344280                | D SILICON H GMA-01-FY2 F05                 |
| IB1          | ED-344280                | D SILICON H GMA-01-FY2 F05                 |
| 182          | EH-349374                | COMP R RKC1/8B8 472J                       |
| IC1          | EH-349374<br>El-405572J  | COMP R RKC1/8B8 472J<br>IC UPD78C10AGQ-36  |
| IC2          | EI-386289J               | IC HD74HC138P                              |
| IC3          | El-388567J               | IC HD74HC573P                              |
| IC4-A        | El-810630J               | ICAM27C256 MPC2000 V1.0-OP                 |
|              | L1-0100000               | IPROGRAM ROMI                              |
| IC4-B        | EI-397343J               | [BLANK ROM]                                |
| 1C5          | El-387934J               | [BLANK ROM]<br>IC HD74HC04P                |
| IC6          | El-362587J1              | IC M5238AL                                 |
| IC7          | El-362587J1              | IC M523BAL                                 |
| P305         | EJ-379603                | PLUG 20FR-ST                               |
| SW1          | ES-411687N               | SW TACT EVO PAE 05R                        |
| SW2          | ES-411687N               | SW TACT EVQ PAE 05R                        |
| SW3          | ES-411687N               | SW TACT EVQ PAE 05R                        |
| SW4          | ES-411687N               | SW TACT EVO PAE 05R                        |
| SW5          | ES-411687N               | SW TACT EVO PAE 05R                        |
| SW6          | ES-411687N               | SW TACT EVO PAE 05R                        |
| SW7          | ES-411687N               | SW TACT EVQ PAE 05R                        |
| SW8          | ES-411687N               | SWTACT EVO PAE 05R                         |
| SW9          | ES-411687N               | SW TACT EVQ PAE 05R                        |
| SW10         | ES-411687N               | SW TACT EVQ PAE 05R                        |
| SW11         | ES-411687N               | SW TACT EVQ PAE 05R                        |
| SW12         | ES-411687N               | SW TACT EVQ PAE 05R                        |
| SW13         | ES-411687N               | SW TACT EVO PAE 05R                        |
| SW14         | ES-411687N               | SW TACT EVQ PAE 05R                        |
| SW15         | ES-411687N               | SW TACT EVO PAE 05R                        |
| SW16         | ES-411687N               | SW TACT EVQ PAE 05R                        |
| SW17         | ES-411687N               | SW TACT EVQ PAE OSR                        |
| SW18         | ES-411687N               | SW TACT EVQ PAE 05R                        |
| SW19         | ES-411687N               | SW TACT EVO PAE 05R                        |
| SW20         | ES-411687N               | SW TACT EVQ PAE DSR                        |
| SW21         | ES-411687N               | SW TACT EVQ PAE 05R                        |
| SW22         | ES-415015J               | SW TACT SKQEAD                             |
| SW23<br>SW24 | ES-411687N<br>ES-411687N | SW TACT EVO PAE 05R                        |
| SW25         | ES-411687N               | SWTACT EVO PAE 05R                         |
| SW26         | ES-411687N               | SW TACT EVO PAE 05R                        |
| SW27         | ES-411687N               | SW TACT EVQ PAE 05R<br>SW TACT EVQ PAE 05R |
| SW28         | ES-415015J               | SW TACT SKOEAD                             |
| SW29         | ES-415015J               | SW TACT SKGEAD                             |
| SW30         | ES-415015J               | SW TACT SKOEAD                             |
| SW31         | ES-415015J               | SW TACT SKOEAD                             |
| 5W32         | ES-411687N               | SW TACT EVO PAE 05R                        |
| SW33         | ES-411687N               | SW TACT EVO PAE 05R                        |
| SW34         | ES-411687N               | SW TACT EVQ PAE 05R                        |
| SW35         | ES-411687N               | SW TACT EVO PAE 05R                        |
| SW36         | ES-411687N               | SW TACT EVO PAE 05R                        |
| SW37         | ES-411687N               | SW TACT EVO PAE OSR                        |
| SW38         | ES-411687N               | SW TACT EVQ PAE 05R                        |
| SW39         | ES-411687N               | SW TACT EVQ PAE 05R                        |
| SW40         | ES-411687N               | SW TACT EVO PAE OSR                        |
| SW41         | ES-415015J               | SW TACT SKOEAD                             |
| VR1          | EV-810633J               | VR SLIDE RS45112 L15 B103X2                |
| W304         | EW-810396J               | WIRE ASSY L4013 W304 20P                   |
| X1           | El-354123                | OSC CE CSA120MTZ 12.000000MHZ              |

### 8. JOG P.C. BOARD

| Ref. No. | Part No.   | Description              |
|----------|------------|--------------------------|
| SW302    | ES-403377J | SW ROTARY ENCODER SRGPHJ |

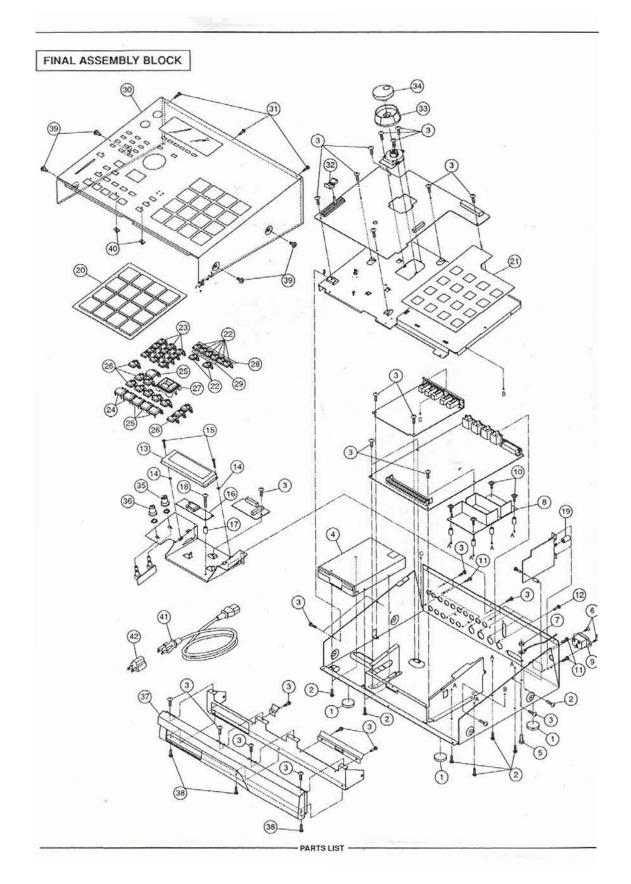
#### 9. POWER P.C. BOARD

| Rel, No. | Part No.      | Description                    |
|----------|---------------|--------------------------------|
| C301     | △ EC-427562J  | C MMY V CUT MKP3362 103M 275AC |
| C302     | △ EC-425606J  | C MMY V CUT MMRC 683M 275AC    |
| C307     | △ EC-427562J  | C MMY V CUT MKP3362 103M 275AC |
| FL301    | △ EO-389172J  | COIL LF LF-4N 502              |
| SW301    | ∆ ES-430685J1 | SW PUSH SDDF3A 02-1            |
| FL301    | △ EO-389172J  | COIL LF LF-4N 502              |

## 10. FINAL ASSEMBLY BLOCK

| Ref. No. | Part No.      | Description                    |
|----------|---------------|--------------------------------|
| 1        | SA-810344J    | FOOT                           |
| 2        | ZS-379405N    | BID30X06STL CMT (SG)           |
| 3        | ZS-320906     | ST BR30X06STL CMT              |
| 4        | BB-810498J    | FDD FD-235HF-7549              |
| 5        | Z\$-322570    | ST BID40X08STL NI3             |
| 6        | ZS-376875     | BT CTS30X08STL BNI             |
| 7        | ZW-413267     | N FRANGE 40STL CMT             |
| 8        | △ BP-810446J  | SW REGULATOR SNP-9541          |
| 9 1      | ∆ EJ-358632J2 | SOCKET INLET SOT-16 3P         |
| 10       | ZS-428277J    | PAN30X06STL CMT POLY WAVE      |
| 11       | ZS#345272     | ST BR30X06STL BNI              |
| 12       | ZS-350934     | PT BR30X08STL BNI              |
| 13       | EM-810407J    | IND LCD GMV24160AFTW           |
| 14       | ZW-810347J    | SPACER LCD                     |
| 15       | ZS-810640J    | BT PAN17X05STL CMT PS3         |
| 16       | BA-810408J    |                                |
| 17       |               | INVERSEUR 135B5A-CFL-INV       |
| 18       | ZW-810346J    | PLASTIC SPACER                 |
| 18       | ZS-400878J    | ST BR30X15STL CMT              |
|          | SB-810525J    | BUTTON POWER                   |
| 20       | SE-376331     | PAD SENSOS                     |
|          | BA-379695J1   | PC PAD SENSOR                  |
| 22       | SB-429685J    | BUTTON PUSH(B)                 |
| 00       | 60 0.00001    | [WHITE]                        |
| 23       | SB-810362J    | BUTTON PUSH(B)-2               |
| 24       | ED 1000001    | [BLUE]                         |
| 24       | SB-430327J    | BUTTON PUSH B(2)               |
| 26       | CD ALCOSOL    | [RED]                          |
| 25       | SB-810359J    | BUTTON PUSH B(3)               |
| 26       | CD 0400001    | [WHITE]                        |
| 26       | SB-810360J    | BUTTON PUSH C-3                |
| 0.7      | CD 11000111   | [WHITE]                        |
| 27       | SB-413601J1   | BUTTON CURSOR                  |
| 28       | SE-810673J    | SPACER BUTTONPUSHA             |
| 29       | SE-810674J    | SPACER BUTTONPUSH B            |
| 30       | SP-810424J    | PANEL TOP MPC2000              |
| 31       | ZS-331182     | BT BID30X08STL BNI             |
| 32       | SK-810361J    | KNOB SLIDE (B)                 |
| 33       | SK-810363J    | KNOB SHUTTLE(F)                |
| 34       | SK-810364J    | KNOB JOG(F)                    |
| 35       | SK-411144J    | KNOB VOL PART(1)               |
|          |               | [WHITE]                        |
| 36       | SK-411147J    | KNOB VOL PART(2)<br>(RED)      |
| 37       | BD-810348J    | PANEL FRONT                    |
| 38       | ZS-348375     | ST BR30X08STL CMT              |
| 39       | ZS-322570     | ST BID40X08STL NI3             |
| 40       | SE-810353J    | LENSLED                        |
| 41-A     | △ EW-380905J  | AC CORD 250S KP300 KS16A H B J |
|          |               | (J)                            |
| 41-B     | Δ EW-368420J1 | AC CORD200SKP30KS16 BAC        |
| - T      |               | [A]                            |
| 41-C     | ∆ EW-410608J  | AC CORD 250S KP4819D KS31A B E |
|          |               | [E,V]                          |
| 41-D     | A EW-419170J  | AC CORD200S KP610 KS31A B      |
| 11.0     | W E11-4101100 | IBI                            |
|          |               |                                |
| 42       | ∆ EJ-405424J  | PLUG ADAPTOR KPR-25            |

NOTE:
Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.



## 11. 8PARA/DIO (IB-M208P OPTIONAL P.C. BOARD)

| Ref.No. | Part No.           | Description                    |  |
|---------|--------------------|--------------------------------|--|
| FL501   | EH-410420J         | FILTER EMI DSS306-93B101MT05   |  |
| FL506   | EH-410420J         | FILTER EMI D\$\$306-93B101MT05 |  |
| FL507   | EH-410420J         | FILTER EMI DSS306-93B101MT05   |  |
| FL508   | EH-410420J         | FILTER EMI DSS306-93B101MT05   |  |
| FL509   | EH-410420J         | FILTER EMI DSS306-93B101MT05   |  |
| FL511   | EH-404248J         | FILTER EMI DSS310-54B 101M CUT |  |
| FL512   | EH-404248J         | FILTER EMI DSS310-54B 101M CUT |  |
| FS501   | <b>∆ EF-376821</b> | FUSE ICP-N15 50V 0.6A          |  |
| FS502   | △ EF-373143        | FUSE ICP-N38 50V 1.5A          |  |
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| IC502   | EI-393696J         | IC HD74HC86P                   |  |
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| IC504   | EI-412279J1        | IC PCM69AP-4                   |  |
| IC505   | El-412279J1        | IC PCM69AP-4                   |  |
| IC506   | El-412279J1        | IC FCM09AP-4                   |  |
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| IC508   | EI-348785          | IC M5220L                      |  |
| IC509   | EI-348785          | IC M5220L                      |  |
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| IC511   | EI-348785          | IC M5220L .:1                  |  |
| IC512   | El-348785          | IC M5220L                      |  |
| IC513   | El-348785          | IC M5220L                      |  |
| IC514   | El-348785          | IC M5220L                      |  |
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| IC516   | EI-393325N         | IC M5218AP                     |  |
| IC517   | EI-393325N         | IC M5218AP                     |  |
| IC518   | EI-393325N         | IC M5218AP                     |  |
| IC519   | EI-379997J         | IC YM3623B                     |  |
| IC521   | El-410414J1        | IC CS8402A-CP                  |  |
| IC522   | El-377101          | IC UPC7805HF                   |  |
| IC524   | EI-810646J         | IC MC74HCU04AN                 |  |
| IC525   | EI-394832J         | IC HD74HC123AP                 |  |
| J501    | EJ-357159          | PHONE J 2P HLJ0520-110 W/NUT   |  |
| J502    | EJ-357159          | PHONE J 2P HLJ0520-110 W/NUT   |  |
| J503    | EJ-357159          | PHONE J 2P HLJ0520-110 W/NUT   |  |
| J504    | EJ-357159          | PHONE J 2P HLJ0520-110 W/NUT   |  |
| J505    | EJ-357159          | PHONE J 2P HLJ0520-110 W/NUT   |  |
| J506    | EJ-357159          | PHONE J 2P HLJ0520-110 W/NUT   |  |
| J507    | EJ-357159          | PHONE J 2P HLJ0520-110 W/NUT   |  |
| J508    | EJ-357159          | PHONE J 2P HLJ0520-110 W/NUT   |  |
| J509    | EJ-430794J         | PIN J YKC21-3045 2P            |  |
| R565    | ER-324480          | R CB H S10 FS RDS 1/4W 470J    |  |
| R566    | ER-324480          | R CB H S10 FS RDS 1/4W 470J    |  |
| R567    | ER-324480          | R CB H S10 FS RDS 1/4W 470J    |  |
| R568    | ER-324480          | R CB H S10 FS RDS 1/4W 470J    |  |
| R569    | ER-324480          | R CB H S10 FS RDS 1/4W 470J    |  |
| R570    | ER-324480          | R CB H S10 FS RDS 1/4W 470J    |  |
| R571    | ER-324480          | R CB H S10 FS RDS 1/4W 470J    |  |
| R572    | ER-324480          | R CB H S10 FS RDS 1/4W 470J    |  |
| T501    | EO-414952J         | TRANS PULSE CIT0705D-35101     |  |
| W501    | EW-810423J         | WIRE ASSY L4013 W401 34P       |  |
| X501    | El-374176          | OSC X'TALAT-51 16.9344MHZ      |  |
| FL1     | EH-810632J         | FILTER EMITFC-16- 8-16         |  |
|         |                    |                                |  |

## 12. SMPTE (IB-M20T OPTIONAL P.C. BOARD)

| Ref.No. | Part No.   | Description                    |
|---------|------------|--------------------------------|
| D801    | ED-344280  | D SILICON H GMA-01-FY2 F05     |
| D802    | ED-344280  | D SILICON H GMA-01-FY2 F05     |
| D803    | ED-344280  | D SILICON H GMA-01-FY2 F05     |
| D804    | ED-344280  | D SILICON H GMA-01-FY2 F05     |
| FL801   | EH-429990J | FILTER EMI STB101KBA F05       |
| FL802   | EH-429990J | FILTER EMI STB101KBA F05       |
| FL803   | EH-429990J | FILTER EMI STB101KBAF05        |
| IC801   | EI-430810J | IC ICS2008V                    |
| J801    | EJ-810705J | PHONE J 3P HLJ0544-010W/N,W6.3 |
| J802    | EJ-810706J | PHONE J 3P HLJ0544-110W/N.W6.3 |
| TR801   | ET-349593  | TR 2SA1348 F05                 |
|         |            |                                |

#### 13. FLASH MEMORY (FMX008M OPTIONAL P.C. BOARD)

| Ref.No. | Part No.   | Description                 |
|---------|------------|-----------------------------|
| IC1 3   | EI-336536J | IC HD74AC138P               |
| IC6     | El-432815J | IC E28F016SA-100            |
| IC7     | EI-432815J | IC E28F016SA-100            |
| IC8     | EI-432815J | IC E28F016SA-100            |
| IC9     | El-432815J | IC E28F016SA-100            |
| J1      | EJ-432816J | SOCKET 128A-060S3B-L14N 60P |
| TR1     | ET-370013  | TR 2SA874 Q,R               |
| TR2     | ET-386938N | TR DTC123ES T05             |
|         |            |                             |

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| BAL4013A040           | 2-3            | EH404248J                               | 11-FL511       | El381290J1             | 3-IC3                | EJ357159                                | 11-J503  |
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| ES411687N  | 7-SW36   |            |          | 1        |          |          |          |
| ES411687N  | 7-SW37   |            |          |          |          | 1        |          |
| ES411687N  | 7-SW38   |            |          |          |          |          |          |
| S411687N   | 7-SW39   |            |          |          |          | 1        |          |
| S411687N   | 7-SW40   | 3          |          |          |          |          |          |
|            |          | 1          |          |          |          |          |          |
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| S415015J   | 7-SW28   |            |          |          |          |          |          |
| S415015J   | 7-SW29   |            |          |          |          |          |          |
| S415015J   | 7-SW30   |            |          |          |          |          |          |
| S415015J   | 7-SW31   |            | 294.0    |          |          |          |          |
|            |          | 25.0       | 14       |          | 'si.     | 1        |          |
| ES415015J  | 7-SW41   | 100        |          |          |          |          |          |
| ES430685J1 | 9-SW301  |            |          |          | A.       | 1        |          |
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| ET366753N  | 4-TR1    |            |          |          |          |          |          |
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|            |          |            |          |          |          | 1        |          |
| EV810633J  | 7-VR1    | The second |          | 1.0      |          | 1        |          |
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| W380905J   | 10-41-A  |            |          | 4        |          | 1        |          |
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| EW810390J  | 3-W101   |            |          |          |          | 1        |          |
| EW810396J  | 7-W304   |            |          |          |          |          |          |
| EW810415J  | 4-W203   | <b>(</b> ) |          | 1        |          | 11.5     |          |
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| EW810423J  | 11-W501  |            |          |          |          |          |          |
|            |          |            |          |          |          | 1        |          |
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| SB430327J  | 10-24    | 100        |          |          |          | 3        |          |
| SB810359J  |          |            |          |          |          |          |          |
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| SB810360J  | 10-26    |            |          |          |          |          |          |
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| SP810424J  | 10-30    |            |          |          |          |          |          |
| S320906    | 10-3     | 1          |          |          |          |          |          |
| S322570    | 10-5     |            |          |          |          |          |          |
|            |          |            |          |          |          |          |          |
| ZS322570   | 10-39    |            |          |          |          |          |          |
| S331182    | 10-31    |            |          |          |          |          |          |
| S345272    | 10-11    |            |          |          |          |          |          |
| 2S348375   | 10-38    |            |          |          |          |          |          |
| S350934    | 10-12    |            | 16       |          |          |          |          |
|            |          |            |          |          |          |          |          |
| S376875    | 10-6     |            |          |          |          |          |          |
| S379405N   | 10-2     |            |          |          |          |          |          |
| S400878J   | 10-18    |            |          |          |          | l.       |          |
| S428277J   | 10-10"   | 190        |          |          |          |          |          |
|            |          |            |          |          |          | 100      |          |
| ZS810640J  | 10-15    |            |          | 1        |          |          |          |

#### ADDITE THE TOTAL OF THE OFTEN THE MANDAL

| ABBREVIATION | EXPLANATION                          | ABBREVIATION | EXPLANATION                            |
|--------------|--------------------------------------|--------------|--|
| AMP (Amp)    | AMPlifier                            | MINI         | MINImum                                |
| BBD          | Backet Brigade Diode                 | MIX          | MIXer                                  |
| BCD          | Binary Code Decimal                  | MOD          | MODulation / MODulator                 |
| B.DOWN       | Brake DOWN                           | M.WHEEL      | Modulation WHEEL                       |
| B.UP         | Back UP                              | osc          | OSCillator                             |
| CE           | Chip Enable                          | PLD          | Programmable Logic Device              |
| СН           | CHannel                              | RAM          | RandomAccess Memory                    |
| COMP         | COMParator                           | RD           | ReaD                                   |
| CONT         | CONTrol                              | REG .        | REGulator                              |
| CV           | Control Voltage                      | RESO         | RESOnance                              |
| D/A          | Digital to Analogue                  | RL           | ReLay                                  |
| DIR          | DIRectory                            | ROM          | Read Only Memory                       |
| DMA          | Direct Memory Access                 | SCSI         | Small Computer System Interface        |
| DSP          | Digital Signal Processor             | S/H          | Sample and Hold                        |
| EG           | Envelope Generator                   | SIMM         | Single Inline Memory Module            |
| EXT          | EXTernal                             | SMPTE        | Society of Motion Picture & Television |
| FREQ         | FREQuency                            |              | Engineers                              |
| HPF          | High Pass Filter                     | Św 🤔         | SWitch                                 |
| INH          | INHibit                              | THRU .       | THRoUgh                                |
| ) INT        | INTerrupt                            | TRANS        | TRANSpose                              |
| INV          | INVerter                             | υ            | Upper                                  |
| L            | Lower                                | VA           | Voltage Analog                         |
| LAN          | Local Area Network                   | VCA          | Voltage Controlled Amplifier           |
| LFO          | Low Frequency Oscillator             | VCF          | Voltage Controlled Filter              |
| MAX          | MAXimum                              | VR           | Variable Resistor                      |
| MEMO         | MEMOry                               | VREF         | REFerence Voltage                      |
| MIDI         | Musical Instrument Digital Interface | WR           | WRite                                  |

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# AKAI ELECTRIC CO., LTD.

# ELECTRONIC MUSICAL INSTRUMENT DIV.

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