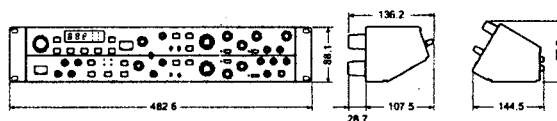


## Analog Filter Module

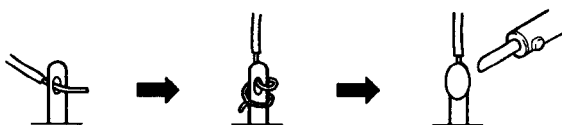
MODEL **MFC42**

## SPECIFICATIONS

|                 |                                                                                                                                                                                                                |                      |                                                                                                                     |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------|
| <b>Filter:</b>  | LOW PASS, HIGH PASS, BAND PASS, NOTCH 2 POLE, 4 POLE, 8 POLE (Mono channel only)                                                                                                                               | <b>Connectors:</b>   |                                                                                                                     |
| <b>Effects:</b> | PHASE SHIFTER, DISTORTION                                                                                                                                                                                      | <b>MONO IN</b>       | 6.3mm phone jack x1 (Impedance 47k Ohms), max. +16dBm                                                               |
| <b>Control:</b> | LFO WAVE (Triangle, Square, Sawtooth, Random), ENVELOPE GENERATOR (A, D, S, R), MIDI CLOCK SYNC (on/off)                                                                                                       | <b>STEREO IN</b>     | 6.3mm phone jack x2 (Impedance 47k Ohms), max. +16dBm RCA x2, LINE/PHONO (Impedance 19k/32k Ohms), max. 0dBm /-33dB |
| <b>Knobs</b>    | INPUT (x2), CUTOFF (x2), RESONANCE (x2), LEVEL (x2), PAN (Mono channel only), A, D, S, R, RATE, DEPTH, L-R PHASE, SPEED, DEPTH (PHASE SHIFTER), OUTPUT (DISTORTION), HIGH, LOW (EQ), MAIN VOLUME, PHONES LEVEL | <b>OUTPUT L/R</b>    | 6.3mm phone jack x2 (Impedance 1k Ohms), max. +16dBm RCA x2 (Impedance 1k Ohms), max. +16dBm                        |
| <b>Keys</b>     | 2 POLE (x2), 4 POLE (x2), 8 POLE (Mono channel only), CUTOFF, RESO, WAVE, LFO, ENVELOPE, TRIGGER, TAP TEMPO, BEAT, - 3 -, MIDI CLOCK SYNC, LINK, INVERT, PHASE SHIFTER, DISTORTION, +, -, MIDI CH., CC NUMBER  | <b>MIDI</b>          | DIN 5pin x3 (IN, OUT, THRU)                                                                                         |
| <b>Levers</b>   | FILTER TYPE (2 x2), DESTINATION                                                                                                                                                                                | <b>Headphone</b>     | 6.3mm stereo phone jack x1, 70mW (load Impedance 32 Ohms)                                                           |
|                 |                                                                                                                                                                                                                | <b>Display:</b>      | 7-segment LED x3                                                                                                    |
|                 |                                                                                                                                                                                                                | <b>Power Supply:</b> | AC100V/120V/230V, 50/60Hz, 12 Watts                                                                                 |
|                 |                                                                                                                                                                                                                | <b>Dimensions:</b>   | 482.6 (w) x 88.1 (h) x 136.2 (d) mm                                                                                 |
|                 |                                                                                                                                                                                                                | <b>Weight:</b>       | 2.8kg                                                                                                               |
|                 |                                                                                                                                                                                                                | <b>Accessories:</b>  | AC Cord, Operator's Manual                                                                                          |
|                 |                                                                                                                                                                                                                | <b>Option:</b>       | KIT-MFC (Mounting bracket kit for MPC2000/MPC2000XL)                                                                |



- Parts identified by the  $\Delta$  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 : Noise blocking capacitors, noise blocking filters, etc.
- Use specified internal wiring. Note especially :
  - Wires covered with PVC tubing
  - Double insulated wires
  - High voltage leads
- Use specified insulating materials for hazardous live parts. Note especially :
  - Insulation Tape
  - PVC tubing
  - Spacers (insulating barriers)
  - Insulation sheets for transistors
  - 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.
- 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  $\mu$ F 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.

## SYMBOLS FOR PRIMARY DESTINATION

Unit destinations are indicated with letters as shown below.

| Symbols | Principal Destinations |
|---------|------------------------|
| A       | U.S.A                  |
| B       | England                |
| E       | Europe                 |
| J       | Japan                  |
| V       | Germany                |
| X1      | Japan                  |
| X4      | Universal Area         |

## WARNING

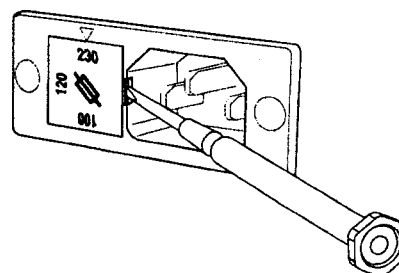
The MFC42 is designed to be used in a standard household environment.

Power requirements for electrical equipment differ from area to area. The operating voltage of this MFC42 is preset at the factory according to its intended destination. However, before connecting, check to see that the **VOLTAGE SELECTOR** on the rear panel is set to the correct voltage for your area. If not, please set it correctly before plugging in the power cord.

100 VAC @ 50/60 Hz for Japan.  
120 VAC @ 60 Hz for USA and Canada  
230 VAC @ 50 Hz for Europe

If the **VOLTAGE SELECTOR** is not set correctly for your area:

Confirm that the power cord is disconnected. Remove the **VOLTAGE SELECTOR** with a screw driver and replace it so that the correct voltage for your area is lined with the marker. Also, change the fuse according to the chart indicated below (on the rear panel as well) as necessary.

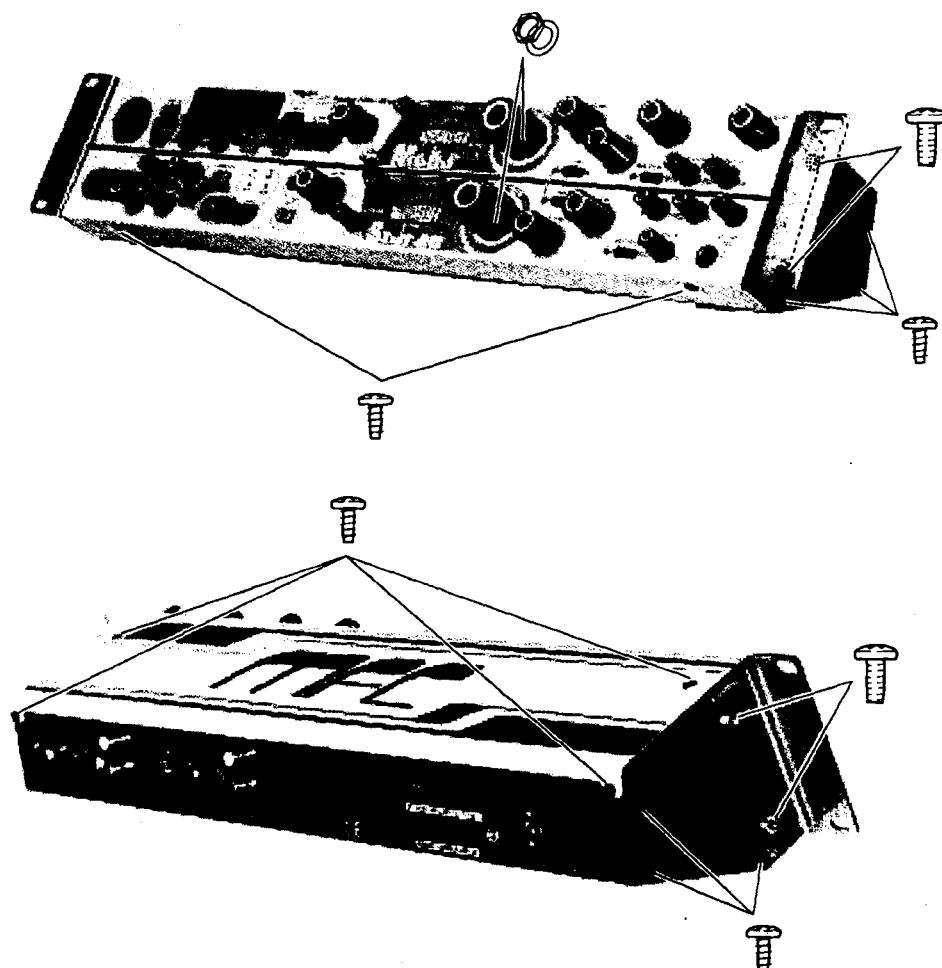


| VOLTAGE | FREQUENCY | FUSE         |
|---------|-----------|--------------|
| 100V ~  | 50/60Hz   | T160mA L250V |
| 120V ~  | 50/60Hz   | T160mA L250V |
| 230V ~  | 50/60Hz   | T80mA L250V  |

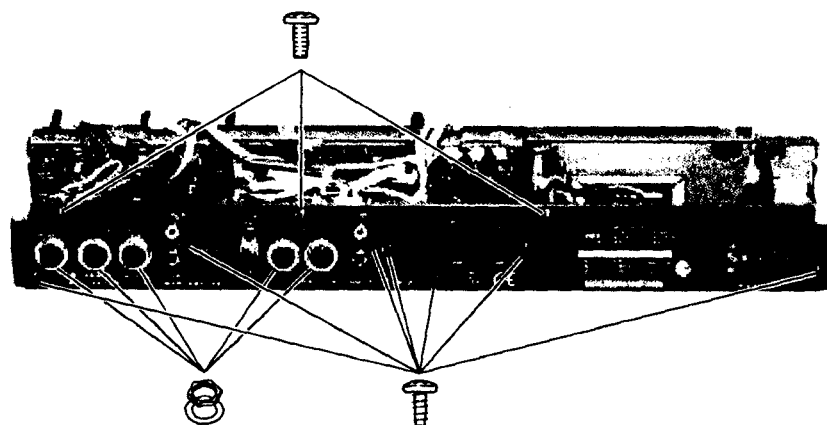
# I. DISASSEMBLY

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

## 1. Removal of the FRONT PANEL BLOCK

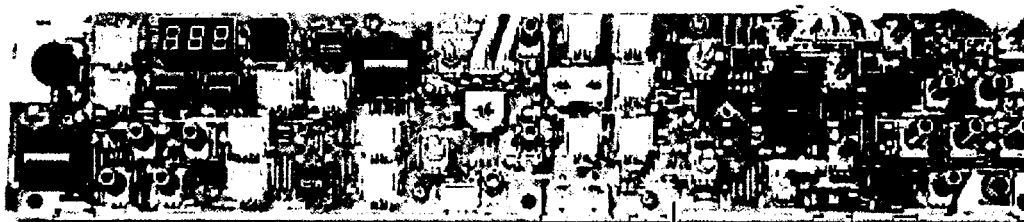


## 2. Removal of the REAR PANEL BLOCK

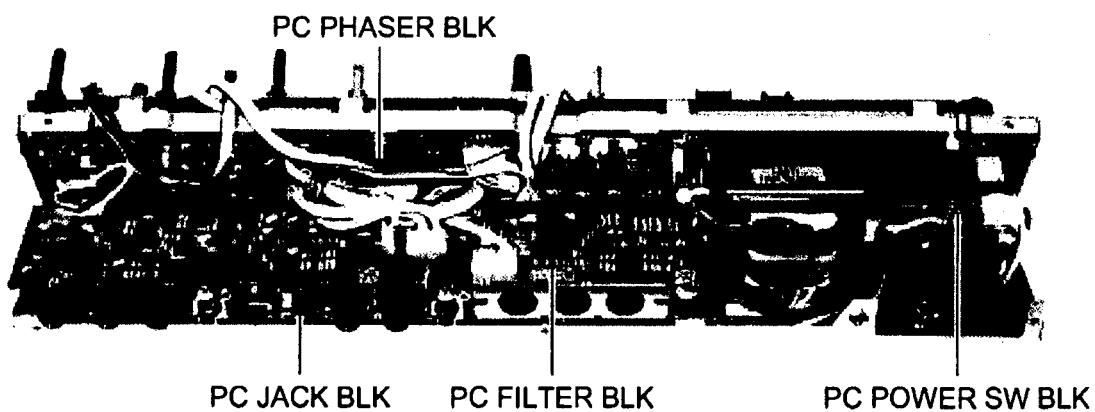


## II. PRINCIPAL PARTS LOCATION

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PC OPERATION BLK



PC PHASER BLK

PC JACK BLK

PC FILTER BLK

PC POWER SW BLK

### III. TEST MODE

---

#### 1. MEMORY CLEAR

While holding [MIDI CH] and [CC NUMBER] buttons down, turn the unit on.  
The 7-segment LED display flashes "CLr" briefly and then returns to normal display.  
All parameters are reset to their default settings.

#### 2. TEST MODE

Turn [RATE] VR to minimum.

While holding [TAP TEMPO] and [TRIGGER] buttons down, turn the unit on.

The 7-segment LED display shows "8.8.8" and all LEDs are turned on.

Press [SEND SCENE +]/[SEND SCENE -] buttons to select the desired Test mode.

##### 2-1 All LED and Display Check - "8.8.8" displayed

All LEDs and 7-segment LEDs light up when [RATE] VR is at minimum.

When [RATE] VR is turned clockwise, individual LEDs begin to flash one by one.

##### 2-2 Volume/Switch Check - "-2-" displayed

Turn each VR, the display shows the value of VR, 000 - 127.

Press each Switch, the display shows the number assigned.

Note: INPUT VOL, MAIN VOL, EQ LOW/HIGH, and Phones LEVEL have no effect.

##### 2-3 INPUT/OUTPUT Check - "-3-" displayed

In this mode, all VOL/SW settings are set by the CPU regardless of their position, except for INPUT VOL, MAIN VOL, EQ LOW/HIGH.

Filter circuits are bypassed by internal switches (IC47, IC48, IC51, IC52).

Switches in this test mode are set as described in the block diagram.

Set the following VRs manually, as INPUT VOL -> MAX, MAIN VOL -> MAX, EQ LOW/HIGH -> CENTER and set INPUT signal level as in the following chart. The signal output level should be as shown.

| INPUT JACK          | INPUT LEVEL  | OUTPUT LEVEL        |
|---------------------|--------------|---------------------|
| L mono phone jack   | 1kHz, -16dBs | -3.0dBs +/- 2.0dBs  |
| mono phone jack     | 1kHz, -16dBs | -10.0dBs +/- 2.0dBs |
| pin jack (sw-line)  | 1kHz, -16dBs | -3.0dBs +/- 2.0dBs  |
| pin jack (sw-phono) | 1kHz, -50dBs | -3.0dBs +/- 2.0dBs  |

Note: Unit is dBs (0dBs = 0.775V)

##### 2-4 "4-1" to "0-1" test mode are for Factory test only.

## IV. PARTS LIST

### ATTENTION

1. 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 Part No. is correct when ordering.  
If not, a part different from the one you ordered may be delivered.
3. 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

1. This Parts List lists those parts which are considered necessary for repairs.
2. Parts not shown in the Parts List will not in principle be supplied.
3. How to read the Parts List.

#### 1. PC MAIN BOARD BLK

| Ref. No. | Part No.   | Description        |
|----------|------------|--------------------|
| D5       | ED-431276C | D SCHOT 1S30-J T05 |
| D110     | ED-431276C | D SCHOT 1S30-J T05 |

|      |            |                |
|------|------------|----------------|
| ...  |            |                |
| IC5  | EI-811073J | ICTRC-6593     |
| IC10 | EI-811068J | IC HD74HC157FP |

Service parts classification

These reference symbols correspond with component symbols in the Schematic Diagrams.

#### 2. FINAL ASSEMBLY BLK

| Ref. No. | Part No.   | Description        |
|----------|------------|--------------------|
| 1.       | SA-349332  | FOOT               |
| 2.       | ZS-344754C | ST PAN30x06STL CMT |

|      |             |                                        |
|------|-------------|----------------------------------------|
| ...  |             |                                        |
| 44.  | SP-417333J  | COVER TOP                              |
| 45.  | ZS-418385J  | BT BID30X06STL BNI EATRH LOCK          |
| 46-A | EW-380905J  | AC CORD 250S KP300 KS16A<br>H B J [J]  |
| 46-B | EW-368420J1 | AC CORD 200SKP30KS B AC [A]            |
| 46-C | EW-410608J  | AC CORD 250 KP4819D KS31A B E<br>[E,V] |

Symbols for primary destination  
[A] U.S.A. [J] Japan  
[B] England [V] Germany  
[E] Europe [x1] Japan  
[X4] Universal Area

Safety critical component

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

### WARNING

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

### AVERTISSEMENT

△ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.

## 1. PC BOARD BLK

The PC Board Block may contain several PC Boards. They appear under its block name without their individual part number. If one of the PC Board is required, you need to order the whole PC Board block. The individual PC Board is not available separately.

| Ref. No. | Part No.      | Description               |
|----------|---------------|---------------------------|
| 1        | BA-L8017A020A | PC(##)FILTER BLK MFC42    |
| 2        | BA-L8017A030A | PC(##)OPERATION BLK MFC42 |

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

- \* P.C. JACK BLK
- \* P.C. PHASER BLK
- \* P.C. FILTER BLK
- \* P.C. POWER SW BLK

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

- \* P.C. OPERATION BLK
- \* P.C. PHONE JACK BLK
- \* P.C. DESTINATION SW BLK
- \* P.C. ST FILTER SW BLK
- \* P.C. MONO FILTER SW BLK

## 2. PC JACK BLK

| Ref. No. | Part No.   | Description                    |
|----------|------------|--------------------------------|
| D10      | ED-811455J | D SILICON H 1SS133T-77 T26     |
| D11      | ED-811455J | D SILICON H 1SS133T-77 T26     |
| D12      | ED-811455J | D SILICON H 1SS133T-77 T26     |
| D13      | ED-811455J | D SILICON H 1SS133T-77 T26     |
| D14      | ED-811455J | D SILICON H 1SS133T-77 T26     |
| D23      | ED-811455J | D SILICON H 1SS133T-77 T26     |
| D24      | ED-811455J | D SILICON H 1SS133T-77 T26     |
| D25      | ED-403280J | D SILICON 1N4002N02 T05 100/1A |
| D26      | ED-403280J | D SILICON 1N4002N02 T05 100/1A |
| D27      | ED-403280J | D SILICON 1N4002N02 T05 100/1A |
| D28      | ED-403280J | D SILICON 1N4002N02 T05 100/1A |
| D29      | ED-386579J | D ZENER H HZS6A1L T26          |
| IC1      | EI-820659X | IC NJM2082M                    |
| IC2      | EI-810826J | IC NJM4558M FTP1T32P           |
| IC8      | EI-810826J | IC NJM4558M FTP1T32P           |
| IC13     | EI-810826J | IC NJM4558M FTP1T32P           |
| IC14     | EI-810826J | IC NJM4558M FTP1T32P           |
| IC19     | EI-810826J | IC NJM4558M FTP1T32P           |
| IC20     | EI-810826J | IC NJM4558M FTP1T32P           |
| IC34     | EI-820625X | IC SSM2164S                    |
| IC35     | EI-820625X | IC SSM2164S                    |
| IC43     | EI-820627X | IC BU4094BCF E2 FPE2T16E       |
| IC44     | EI-820627X | IC BU4094BCF E2 FPE2T16E       |
| IC45     | EI-820627X | IC BU4094BCF E2 FPE2T16E       |
| IC46     | EI-820662X | IC BU4053BCF E2 FPE2T16E       |
| IC47     | EI-820662X | IC BU4053BCF E2 FPE2T16E       |
| IC48     | EI-820662X | IC BU4053BCF E2 FPE2T16E       |
| IC51     | EI-820662X | IC BU4053BCF E2 FPE2T16E       |
| IC52     | EI-820662X | IC BU4053BCF E2 FPE2T16E       |
| IC53     | EI-430926J | DETECTOR PC400                 |
| IC54     | EI-810683J | IC HD74HC00FP                  |
| TR2      | ET-362847  | TR 2SA1317 S,T,U T05           |
| TR3      | ET-362209  | TR 2SC3330 S,T,U T05           |
| TR4      | ET-362209  | TR 2SC3330 S,T,U T05           |
| TR5      | ET-364023  | TR DTC114ES T05                |
| J11      | EJ-820685X | PHONE J 2P HLJ0521-01-1110 N/W |
| J12      | EJ-820685X | PHONE J 2P HLJ0521-01-1110 N/W |
| J13      | EJ-820685X | PHONE J 2P HLJ0521-01-1110 N/W |
| J14      | EJ-820685X | PHONE J 2P HLJ0521-01-1110 N/W |
| J15      | EJ-820685X | PHONE J 2P HLJ0521-01-1110 N/W |
| J17      | EJ-820623X | PIN J YKC21-3487 2P            |

| Ref. No. | Part No.   | Description               |
|----------|------------|---------------------------|
| J18      | EJ-820623X | PIN J YKC21-3487 2P       |
| J20      | EJ-403478J | DIN J YKF51-5040 5P       |
| SW4      | ES-820629X | SW SLIDE SSAA120200 02-02 |

## 3. PC PHASER BLK

| Ref. No. | Part No.   | Description                    |
|----------|------------|--------------------------------|
| D15      | ED-403280J | D SILICON 1N4002N02 T05 100/1A |
| D16      | ED-403280J | D SILICON 1N4002N02 T05 100/1A |
| D17      | ED-403280J | D SILICON 1N4002N02 T05 100/1A |
| D18      | ED-403280J | D SILICON 1N4002N02 T05 100/1A |
| D19      | ED-403280J | D SILICON 1N4002N02 T05 100/1A |
| D20      | ED-403280J | D SILICON 1N4002N02 T05 100/1A |
| D21      | ED-403280J | D SILICON 1N4002N02 T05 100/1A |
| D22      | ED-403280J | D SILICON 1N4002N02 T05 100/1A |
| IC100    | EI-395058J | IC NJM7805FA                   |
| IC101    | EI-416620J | IC NJM7809FA                   |
| IC102    | EI-424469J | IC NJM7909FA                   |
| IC16     | EI-810826J | IC NJM4558M FTP1T32P           |
| IC17     | EI-810826J | IC NJM4558M FTP1T32P           |
| IC18     | EI-810826J | IC NJM4558M FTP1T32P           |
| IC21     | EI-810826J | IC NJM4558M FTP1T32P           |
| IC22     | EI-810826J | IC NJM4558M FTP1T32P           |
| IC23     | EI-810826J | IC NJM4558M FTP1T32P           |
| IC24     | EI-810826J | IC NJM4558M FTP1T32P           |
| IC25     | EI-810826J | IC NJM4558M FTP1T32P           |
| IC26     | EI-810826J | IC NJM4558M FTP1T32P           |
| IC27     | EI-810826J | IC NJM4558M FTP1T32P           |
| IC28     | EI-810826J | IC NJM4558M FTP1T32P           |
| IC36     | EI-820666X | IC NJM13700M                   |
| IC37     | EI-820666X | IC NJM13700M                   |
| IC38     | EI-820666X | IC NJM13700M                   |
| IC39     | EI-820666X | IC NJM13700M                   |
| IC40     | EI-820626X | IC DAC7513E T08                |
| IC41     | EI-820660X | IC BU4051BCF E2 FPE2T16E       |
| IC42     | EI-820660X | IC BU4051BCF E2 FPE2T16E       |
| TR7      | ET-362209  | TR 2SC3330 S,T,U T05           |
| TR8      | ET-362209  | TR 2SC3330 S,T,U T05           |

## 4. PC FILTER BLK

| Ref. No. | Part No.   | Description              |
|----------|------------|--------------------------|
| IC3      | EI-810826J | IC NJM4558M FTP1T32P     |
| IC4      | EI-810826J | IC NJM4558M FTP1T32P     |
| IC5      | EI-820659X | IC NJM2082M              |
| IC6      | EI-820659X | IC NJM2082M              |
| IC9      | EI-810826J | IC NJM4558M FTP1T32P     |
| IC10     | EI-810826J | IC NJM4558M FTP1T32P     |
| IC11     | EI-820659X | IC NJM2082M              |
| IC12     | EI-820659X | IC NJM2082M              |
| IC31     | EI-820625X | IC SSM2164S              |
| IC32     | EI-820625X | IC SSM2164S              |
| IC33     | EI-820625X | IC SSM2164S              |
| IC49     | EI-820661X | IC BU4052BCF E2 FPE2T16E |
| IC50     | EI-820661X | IC BU4052BCF E2 FPE2T16E |

## 5. PC POWER SW BLK

| Ref. No. | Part No.   | Description             |
|----------|------------|-------------------------|
| FL14     | EO-811397J | COIL LF LF-4Z-E102      |
| SW5      | ES-820630X | SW PUSH SDKLA10300 01-1 |

## 6. PC OPERATION BLK

| Ref. No. | Part No.   | Description                 |
|----------|------------|-----------------------------|
| D1       | ED-820634X | D LED TOT-4301FS-B          |
| D5       | ED-811508J | D LED SEL2215R RED          |
| D6       | ED-811508J | D LED SEL2215R RED          |
| D7       | ED-811508J | D LED SEL2215R RED          |
| D8       | ED-811508J | D LED SEL2215R RED          |
| D9       | ED-811508J | D LED SEL2215R RED          |
| D10      | ED-811508J | D LED SEL2215R RED          |
| D11      | ED-811508J | D LED SEL2215R RED          |
| D12      | ED-811508J | D LED SEL2215R RED          |
| D13      | ED-811508J | D LED SEL2215R RED          |
| D14      | ED-811508J | D LED SEL2215R RED          |
| D15      | ED-820635X | D LED SEL5255S RED          |
| D16      | ED-820635X | D LED SEL5255S RED          |
| D17      | ED-811508J | D LED SEL2215R RED          |
| D18      | ED-811508J | D LED SEL2215R RED          |
| D19      | ED-811508J | D LED SEL2215R RED          |
| D20      | ED-820635X | D LED SEL5255S RED          |
| D21      | ED-820635X | D LED SEL5255S RED          |
| D22      | ED-820635X | D LED SEL5255S RED          |
| D23      | ED-820635X | D LED SEL5255S RED          |
| D24      | ED-820665X | D LED SEL5955A OGANGE       |
| D25      | ED-820636X | D LED SEL5755C YELLOW       |
| D26      | ED-820636X | D LED SEL5755C YELLOW       |
| D27      | ED-820636X | D LED SEL5755C YELLOW       |
| D28      | ED-820636X | D LED SEL5755C YELLOW       |
| D29      | ED-820636X | D LED SEL5755C YELLOW       |
| D30      | ED-820636X | D LED SEL5755C YELLOW       |
| D31      | ED-811506J | D LED SEL2415G GREEN        |
| D33      | ED-811455J | D SILICON H 1SS133T-77 T26  |
| D34      | ED-811455J | D SILICON H 1SS133T-77 T26  |
| D35      | ED-811455J | D SILICON H 1SS133T-77 T26  |
| D36      | ED-811455J | D SILICON H 1SS133T-77 T26  |
| D37      | ED-811455J | D SILICON H 1SS133T-77 T26  |
| D38      | ED-811455J | D SILICON H 1SS133T-77 T26  |
| D100     | ED-811455J | D SILICON H 1SS133T-77 T26  |
| D101     | ED-811455J | D SILICON H 1SS133T-77 T26  |
| IC1      | EI-810826J | IC NJM4558M FTP1T32P        |
| IC2      | EI-810826J | IC NJM4558M FTP1T32P        |
| IC3      | EI-397079J | IC HD74HC04FP               |
| IC4      | EI-820599X | IC HD6433642RB83H MFC42     |
| IC5      | EI-820667X | IC NJM4556AM                |
| IC6      | EI-431113J | IC M51953BFP-73A FP73AT12E  |
| IC7      | EI-820660X | IC BU4051BCF E2 FPE2T16E    |
| IC8      | EI-820660X | IC BU4051BCF E2 FPE2T16E    |
| IC9      | EI-813040J | IC 93LC46AT-I/SN FP T08E    |
| IC10     | EI-810826J | IC NJM4558M FTP1T32P        |
| IC11     | EI-810826J | IC NJM4558M FTP1T32P        |
| X1       | EI-430893J | OSC CE CST16.00MXW-TF01 T05 |
| SW6      | ES-349474  | SW TACT SKHHAM004A          |
| SW7      | ES-349474  | SW TACT SKHHAM004A          |
| SW8      | ES-349474  | SW TACT SKHHAM004A          |
| SW9      | ES-349474  | SW TACT SKHHAM004A          |
| SW10     | ES-349474  | SW TACT SKHHAM004A          |
| SW11     | ES-415015J | SW TACT SKQEAD              |
| SW12     | ES-349474  | SW TACT SKHHAM004A          |
| SW13     | ES-349474  | SW TACT SKHHAM004A          |
| SW14     | ES-349474  | SW TACT SKHHAM004A          |
| SW15     | ES-349474  | SW TACT SKHHAM004A          |
| SW16     | ES-349474  | SW TACT SKHHAM004A          |

| Ref. No. | Part No.   | Description                    |
|----------|------------|--------------------------------|
| SW17     | ES-349474  | SW TACT SKHHAM004A             |
| SW18     | ES-349474  | SW TACT SKHHAM004A             |
| SW19     | ES-349474  | SW TACT SKHHAM004A             |
| SW20     | ES-349474  | SW TACT SKHHAM004A             |
| SW21     | ES-415015J | SW TACT SKQEAD                 |
| SW22     | ES-349474  | SW TACT SKHHAM004A             |
| SW23     | ES-349474  | SW TACT SKHHAM004A             |
| SW24     | ES-349474  | SW TACT SKHHAM004A             |
| SW25     | ES-349474  | SW TACT SKHHAM004A             |
| SW26     | ES-349474  | SW TACT SKHHAM004A             |
| SW27     | ES-349474  | SW TACT SKHHAM004A             |
| SW28     | ES-349474  | SW TACT SKHHAM004A             |
| TR3      | ET-362847  | TR 2SA1317 S,T,U T05           |
| TR4      | ET-362847  | TR 2SA1317 S,T,U T05           |
| TR5      | ET-362847  | TR 2SA1317 S,T,U T05           |
| TR6      | ET-362847  | TR 2SA1317 S,T,U T05           |
| TR7      | ET-362847  | TR 2SA1317 S,T,U T05           |
| TR8      | ET-362847  | TR 2SA1317 S,T,U T05           |
| TR9      | ET-362847  | TR 2SA1317 S,T,U T05           |
| TR10     | ET-362847  | TR 2SA1317 S,T,U T05           |
| TR11     | ET-362847  | TR 2SA1317 S,T,U T05           |
| TR12     | ET-362847  | TR 2SA1317 S,T,U T05           |
| TR13     | ET-362847  | TR 2SA1317 S,T,U T05           |
| TR14     | ET-362847  | TR 2SA1317 S,T,U T05           |
| TR15     | ET-362847  | TR 2SA1317 S,T,U T05           |
| TR16     | ET-362847  | TR 2SA1317 S,T,U T05           |
| TR17     | ET-362209  | TR 2SC3330 S,T,U T05           |
| TR18     | ET-362209  | TR 2SC3330 S,T,U T05           |
| TR19     | ET-362209  | TR 2SC3330 S,T,U T05           |
| TR20     | ET-362209  | TR 2SC3330 S,T,U T05           |
| TR21     | ET-362209  | TR 2SC3330 S,T,U T05           |
| TR22     | ET-362209  | TR 2SC3330 S,T,U T05           |
| TR23     | ET-362209  | TR 2SC3330 S,T,U T05           |
| TR25     | ET-362209  | TR 2SC3330 S,T,U T05           |
| VR1      | EV-820603X | VR ROTARY RK09K12CAF25A24 A203 |
| VR2      | EV-820656X | VR ROT RK09K113AF25A24 AS A203 |
| VR3      | EV-820605X | VR ROTARY RK12L1232F25B14 B103 |
| VR4      | EV-820605X | VR ROTARY RK12L1232F25B14 B103 |
| VR5      | EV-820606X | VR ROTARY RK12L12C1F30A24 A203 |
| VR6      | EV-820607X | VR ROTARY RK12L12C1F25A24 A203 |
| VR7      | EV-820602X | VR ROTARY RK09K113AF25B14 B103 |
| VR8      | EV-820602X | VR ROTARY RK09K113AF25B14 B103 |
| VR9      | EV-820602X | VR ROTARY RK09K113AF25B14 B103 |
| VR10     | EV-820602X | VR ROTARY RK09K113AF25B14 B103 |
| VR11     | EV-820657X | VR ROTARY RK09L1141F20B14 B103 |
| VR12     | EV-820604X | VR ROTARY RK09L1142F20B14 B103 |
| VR13     | EV-820602X | VR ROTARY RK09K113AF25B14 B103 |
| VR14     | EV-820600X | VR ROTARY RK09D113AF30B14 B103 |
| VR15     | EV-820600X | VR ROTARY RK09D113AF30B14 B103 |
| VR16     | EV-820600X | VR ROTARY RK09D113AF30B14 B103 |
| VR17     | EV-820657X | VR ROTARY RK09L1141F20B14 B103 |
| VR18     | EV-820600X | VR ROTARY RK09D113AF30B14 B103 |
| VR19     | EV-820657X | VR ROTARY RK09L1141F20B14 B103 |
| VR20     | EV-820601X | VR ROTARY RK09D113BF30B14 B103 |
| VR21     | EV-820602X | VR ROTARY RK09K113AF25B14 B103 |
| VR22     | EV-820602X | VR ROTARY RK09K113AF25B14 B103 |
| VR23     | EV-820602X | VR ROTARY RK09K113AF25B14 B103 |

**7. PC PHONE JACK BLK**

| Ref. No. | Part No.   | Description                  |
|----------|------------|------------------------------|
| J100     | EJ-821000X | PHONE J YKB26-5264 S.NUT 6.3 |

**8. PC DESTINATION SW BLK**

| Ref. No. | Part No.   | Description                |
|----------|------------|----------------------------|
| D200     | ED-811455J | D SILICON H 1SS133T-77 T26 |

**9. PC ST FILTER SW BLK**

| Ref. No. | Part No.   | Description                |
|----------|------------|----------------------------|
| D400     | ED-811455J | D SILICON H 1SS133T-77 T26 |
| D600     | ED-811455J | D SILICON H 1SS133T-77 T26 |

**10. PC MONO FILTER SW BLK**

| Ref. No. | Part No.   | Description                |
|----------|------------|----------------------------|
| D300     | ED-811455J | D SILICON H 1SS133T-77 T26 |
| D500     | ED-811455J | D SILICON H 1SS133T-77 T26 |

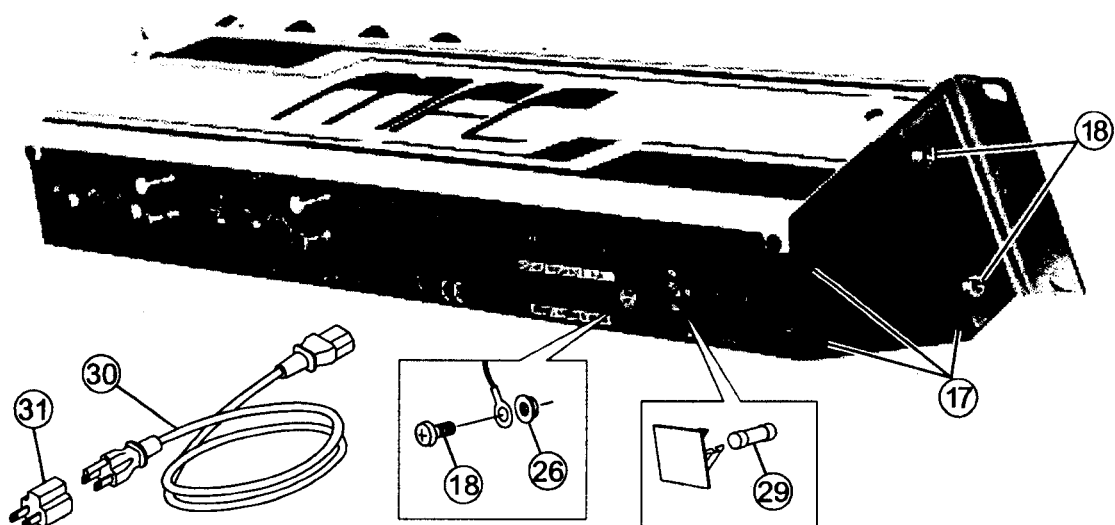
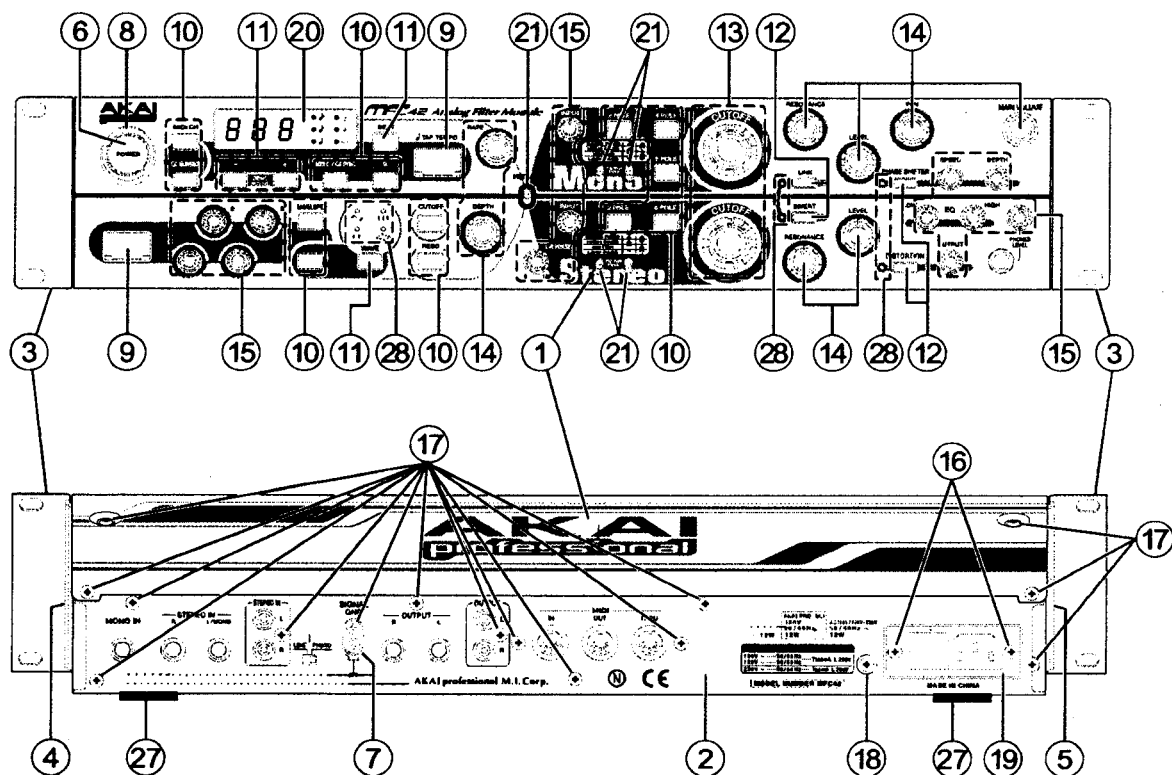
**11. FINAL ASSEMBLY BLOCK**

| Ref. No. | Part No.     | Description                        |
|----------|--------------|------------------------------------|
| 1        | SP-820640X1  | PANEL MAIN MFC42                   |
| 2        | SP-820641X2  | PANEL REAR MFC42                   |
| 3        | SE-820644X   | HANDLE                             |
| 4        | SP-820643X   | COVER SIDE (R)                     |
| 5        | SP-820642X   | COVER SIDE (L)                     |
| 6        | SB-820646X   | BUTTON POWER                       |
| 7        | EJ-329610    | TERMINAL W/SCREWUB-0067 L 1P       |
| 8        | SE-820647X   | ESCUTCHEON POWER                   |
| 9        | SB-820930X   | BUTTON PUSH TRA MFC GRAY           |
| 10       | SB-820587X   | BUTTON PUSH LED (A) WHITE          |
| 11       | SB-820927X   | BUTTON PUSH LED (D) GRAY           |
| 12       | SB-820928X   | BUTTON PUSH SMALL (C) GRAY         |
| 13       | SK-820650X   | KNOB VOLUME                        |
| 14       | SK-820651X   | KNOB MAIN VOLUME                   |
| 15       | SK-820929X   | KNOB VOL. (B)                      |
| 16       | ZS-820481X   | BT PAN30X08STL BZN C080            |
| 17       | ZS-331182    | BT BID30X08STL BNI                 |
| 18       | ZS-322570    | ST BID40X08STL NI3                 |
| 19       | ▲EJ-820628X  | SOCKET INLET BACI-03 3P            |
| 20       | SE-820645X   | WINDOW LED                         |
| 21       | ES-820598X   | SW TOGGLE E-2012P                  |
| 22       | ▲BT-820624X  | TRANS POW L8017 (U)                |
| 23       | ZS-313796    | ST BID40X06STL CMT                 |
| 25       | ZS-355511    | BID30X06STL BNI                    |
| 26       | ZW-413267    | N FRANGE 40STL CMT                 |
| 27       | SA-820639X   | FOOT                               |
| 28       | SE-820649X   | LENS LED                           |
| 29-A     | ▲EF-821270X  | FUSE 50T T 250V 160MA [J,A]        |
| 29-B     | ▲EF-821269X  | FUSE ET T 250V 80MA [E,V,B]        |
| 30-A     | ▲EW-380905J  | AC CORD 250S KP300 KS16A H B J [J] |
| 30-B     | ▲EW-368420J1 | AC CORD200SKP30KS16 B AC [A]       |
| 30-C     | ▲EW-403993J  | AC CORD200SKP4819DKS31A B E [E,V]  |
| 30-D     | ▲EW-419170J  | AC CORD200S KP610 KS31A B [B]      |
| 31       | ▲EJ-405424J  | PLUG ADAPTOR KPR-25 [J]            |

**NOTE :**

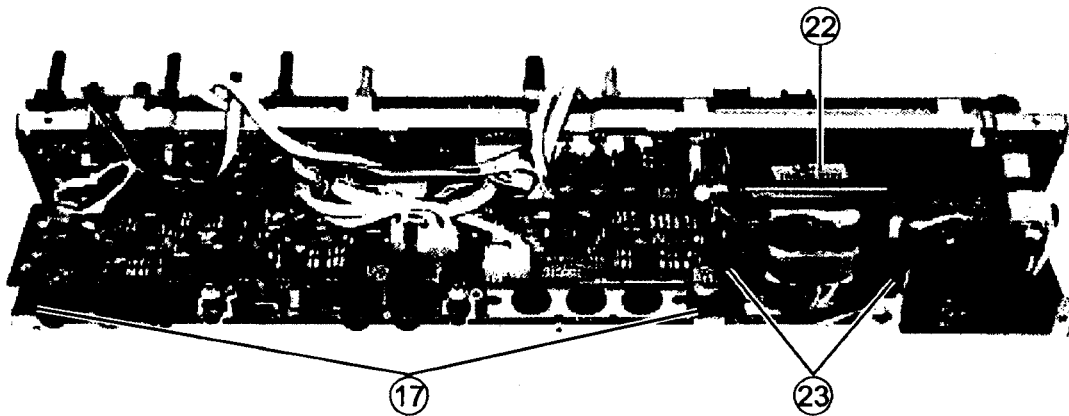
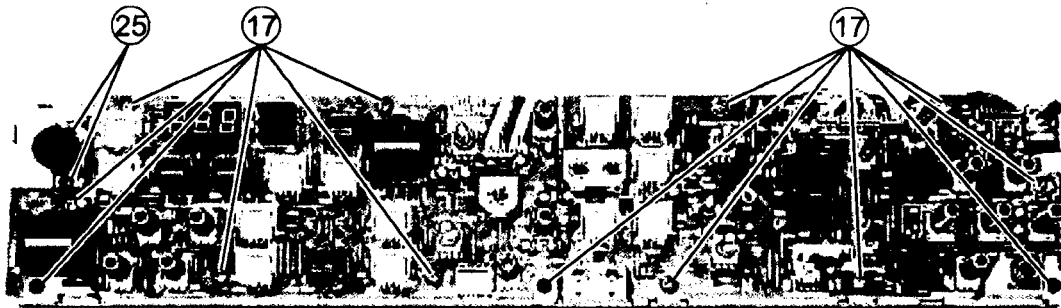
Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

# FINAL ASSEMBLY BLK MFC42



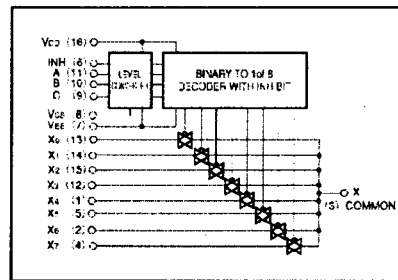
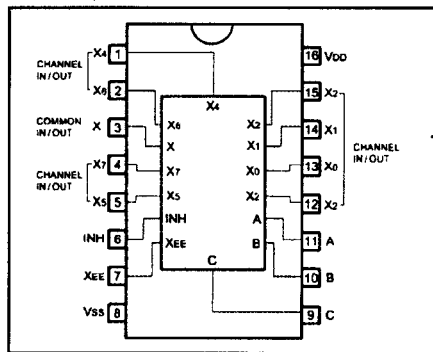
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**FINAL ASSEMBLY BLK MFC42**

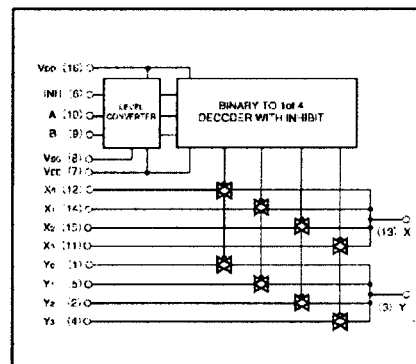
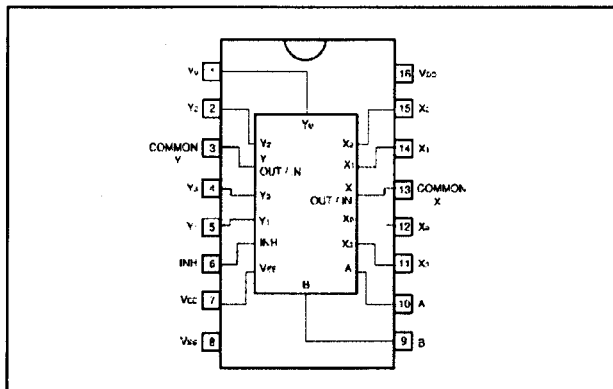


## Information of ICs

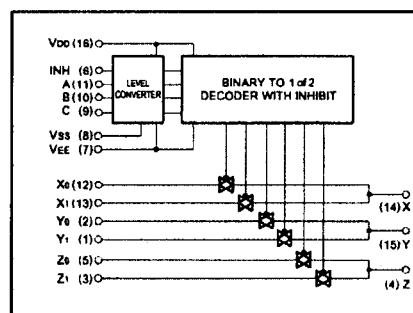
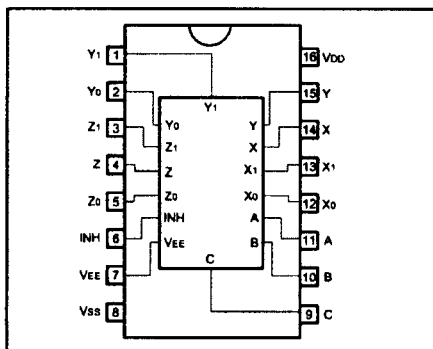
### BU4051BC (8ch Analog Multiplexer/ DeMultiplexer)



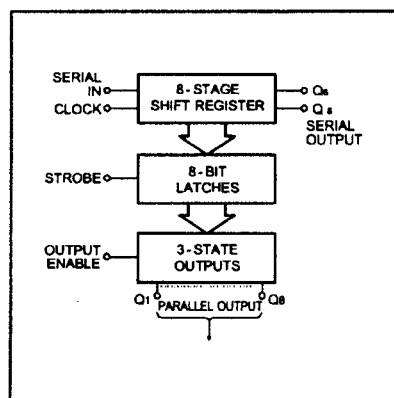
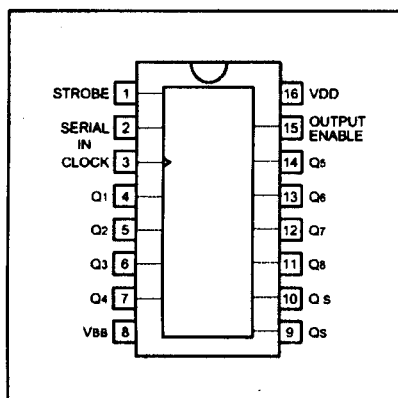
### BU4052BC (Dual 4ch Analog Multiplexer)



### BU4053BC (Triple 2ch Analog Multiplexer/ DeMultiplexer)



### BU4094BC (8bit Bus Compatible Shift/ Store resister)



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