

JVC

DX-MX70BK

SERVICE MANUAL

DX-MX70BK
MODEL No. CA-MX70BK
(UNIT No. AX-MX70BK)



For Service Manuals Contact
 MAURITRON TECHNICAL SERVICES
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Safety Precautions

1. The design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorised in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits.
2. Any unauthorised design alterations or additions will void the manufacturer's guarantee; furthermore the manufacturer cannot accept responsibility for personal injury or property damage resulting therefrom.
3. Essential safety critical components are identified by (Δ) on the Parts List and by shading on the schematics, and must never be replaced by parts other than those listed in the manual. Please note however that many electrical and mechanical parts in the product have special safety related characteristics. These characteristics are often not evident from visual inspection. Parts other than specified by the manufacturer may not have the same safety characteristics as the recommended replacement parts shown in the Parts List of the service manual and may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.

Warning

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

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Air-cooling Fan

(1) Outline:

By using an air blower with a motor in the AX-MX70BK, the heat sink has been made smaller and high power has been achieved in a compact format. The air blower rotates with a 2-step speed according to the music signal level. The rise of the temperature in the heat sink is detected by a thermistor, and if the temperature becomes abnormal, the speaker relay is turned OFF.

(2) Operation principle:

The music signal level detected by the A/D converter (IC093) is input to the microcomputer, and the fan motor is driven with a 2-step speed according to that signal level. The temperature of the heat sink is detected by the resistance value of the thermistor (SR041), and is input to the A/D converter (IC093).

(3) Fan operation (standard value)

- ① When the speaker output continues for more than 1 minute (continuously more than 4 V or at a music peak above 10 V), the rotation speed is lowered.
- ② When the condition of ① continues for more than 15 minutes, the rotation speed is raised.
- ③ When the signal detection is turned OFF while the fan is rotating, the fan will be stopped after 1 minute.
- ④ When condition ② continues, the rotation is stopped for 2 minutes after 30 minutes and, thereafter, high speed rotation will continue.

(4) Abnormal rise in temperature (standard value)

When the temperature of the heat sink is higher than 125°C for more than a minute, the speaker relay is turned OFF.

Check of Fan Motor Rotation

- ① Short-circuit of W049 and GND → Low speed rotation
- ② Short-circuit of W050 and GND → High speed rotation

Disassembly Procedures

(1) Removing the top cover

1. Remove the screw on each side and the 4 screws on the rear.
2. Pull the top cover slightly backward and lift it while spreading the backs of the left and right sides to remove it.

(2) Removing the Front panel

1. Remove the top cover.
2. Remove the 5 screws under the front panel

(3) Confirming the Main P.C. board

1. Remove the top cover.
2. Remove the 6 screws ① ② ③ fastening the main P.C.board and heat sink bracket.(Fig.1)
3. Remove the screw ⑤ fastening the rear side.(Fig.2)
4. Confirm the main P.C. board as shown in the Fig.3

(4) Removing the Heat Sink.

1. Remove the top cover.
2. Remove the 2 screws ② fastening the heat sink.
3. Remove the 4 screws ③ ④ fastening the heat sink bracket.
4. Pull out the heat sink Ass'y from main P.C. board.

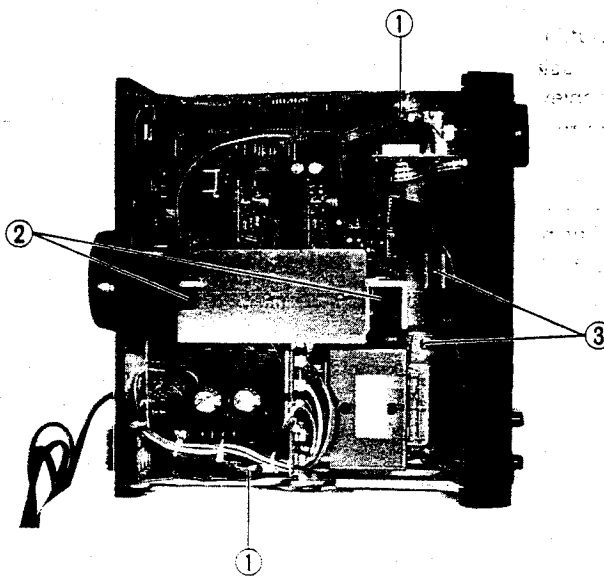


Fig. 1

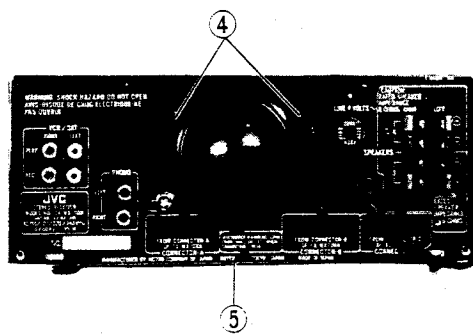


Fig. 2

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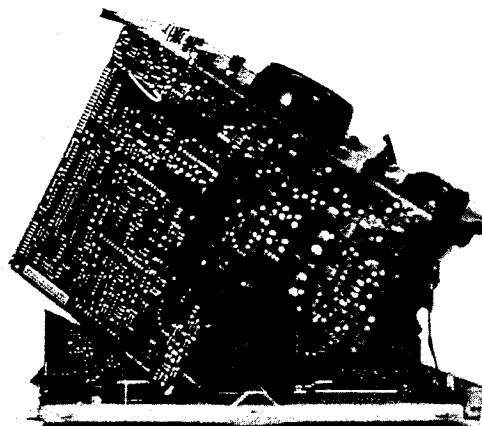


Fig. 3

Description of Major LSIs

■ MN171202JNY (IC901)----- System Control Microcomputer

1. Terminal Layout

| | | | |
|-------------|----|----|--------------|
| Vcc | 1 | 64 | OSC2 |
| S1 | 2 | 63 | OSC1 |
| S2 | 3 | 62 | Vss |
| S3 | 4 | 61 | |
| S4 | 5 | 60 | X1 |
| S5 | 6 | 59 | D |
| S6 | 7 | 58 | C |
| S7 | 8 | 57 | B |
| S8 | 9 | 56 | A |
| S9 | 10 | 55 | G2 DIGIT1 |
| S10 | 11 | 54 | CS DCM/EXP |
| S11 | 12 | 53 | STANDBY |
| S12 | 13 | 52 | |
| S13 | 14 | 51 | FL OFF |
| S14 | 15 | 50 | MUTING |
| AI IND | 16 | 49 | POWER ON/OFF |
| VOL. IND | 17 | 48 | DCS OUT |
| Vpp | 18 | 47 | DCS IN |
| VOL. UP | 19 | 46 | INH |
| VOL. DOWN | 20 | 45 | REMOCON IN |
| | 21 | 44 | PROTECT IN |
| SURROUND | 22 | 43 | RESET |
| ENG. ON/OFF | 23 | 42 | A/D SO |
| ENG. SPEED | 24 | 41 | A/D SI |
| SPK. OUT | 25 | 40 | A/D SCK |
| AC RELAY | 26 | 39 | G |
| KI 0 | 27 | 38 | SW SO |
| KI 1 | 28 | 37 | SW STB |
| KI 2 | 29 | 36 | SW SCK |
| KI 3 | 30 | 35 | A/D STB |
| CLOCK | 31 | 34 | A/D CS |
| DATA | 32 | 33 | RCK(STB) |

2. Pin Functions

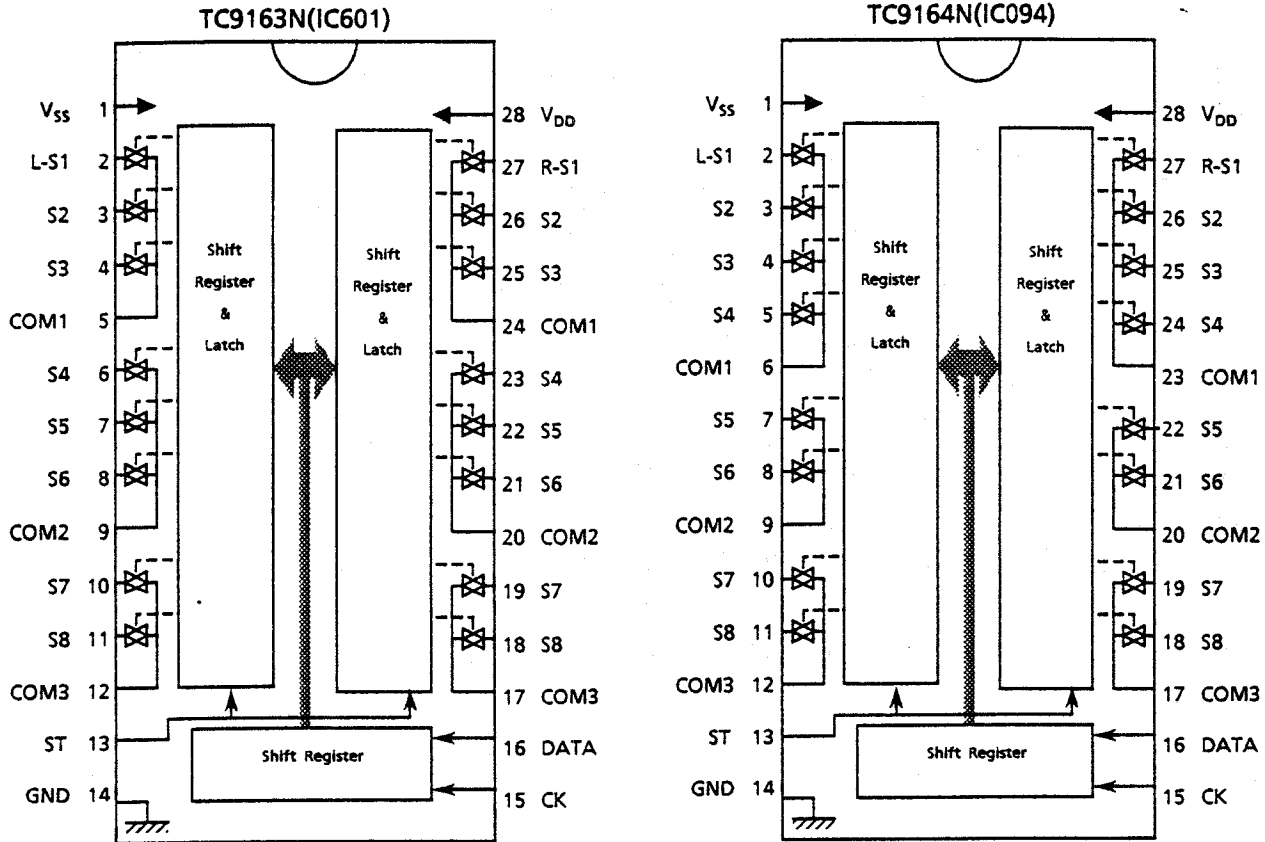
| Pin No. | Name | I/O | Function | Pin No. | Name | I/O | Function |
|---------|-------------|-----|--------------------------------------|---------|-------------|-----|--|
| 1 | Vcc | — | Power supply voltage(+ 5V). | 39 | G | O | Output control signal to IC905. |
| 2~15 | S1~S14 | O | FL segment control output. | 40 | A/D SCK | O | Clock signal output to IC093, IC094 and IC905. |
| 16 | AI IND | O | AI indicator signal output. | 41 | A/D SI | I | Serial data input from IC093. |
| 17 | VOL. IND | O | Volume indicator signal output. | 42 | A/D SO | O | Clock signal output to IC093 and IC094. |
| 18 | Vpp | — | Power supply for FL display. | 43 | RESET | I | Reset signal input. |
| 19 | VOL. UP | O | Volume up signal output. | 44 | PROTECT IN | I | Protector detect signal input. |
| 20 | VOL. DOWN | O | Volume down signal output. | 45 | REMOCON IN | I | Remocon signal input. |
| 21 | | | Non connect. | 46 | INH | I | INH signal input. |
| 22 | SURROUND | O | Surround control signal output. | 47 | DCS IN | I | DCS signal input. |
| 23 | ENG. ON/OFF | O | FAN on/off control signal output. | 48 | DCS OUT | O | DCS signal output. |
| 24 | ENG. SPEED | O | FAN speed control signal output. | 49 | POW. ON/OFF | O | Outputs power on/off signal to mech. control. |
| 25 | SPK. OUT | O | Speaker relay control signal output. | 50 | MUTING | O | Muting signal output. |
| 26 | AC RELAY | O | AC relay control signal output. | 51 | FL OFF | O | FL display control signal output. |
| 27~30 | KI0~KI3 | I | Key matrix input. | 52 | | | Non connect. |
| 31 | CLOCK | O | Clock signal output to IC641. | 53 | STANDBY | O | STANDBY indicator signal output. |
| 32 | DATA | O | Data signal output to IC641. | 54 | CS DCM/EXP | I | Pull down. |
| 33 | RCK(STB) | O | Stb signal output to IC905. | 55 | G2 DIGIT1 | O | FL grid control signal. |
| 34 | A/D CS | O | Chip select signal output to IC093. | 56~59 | A~D | O | FL grid control signal. |
| 35 | A/D STB | O | Stb signal output to IC094. | 60 | X1 | I | Pull down. |
| 36 | SW SCK | O | Clock signal output to IC601. | 61 | | | Non connect. |
| 37 | SW STB | O | Stb signal output to IC601. | 62 | Vss | — | GND. |
| 38 | SW SO | O | Data signal output to IC601. | 63 - 64 | OSC1 - OSC2 | — | clock oscillation. |

■ TC9163N, TC9164N (IC601, 094) : Analog Switch

1. Functions

These analog switches are controlled by 14 bit serial data from computer for selecting the source.

2. Terminal Layout & Block diagram



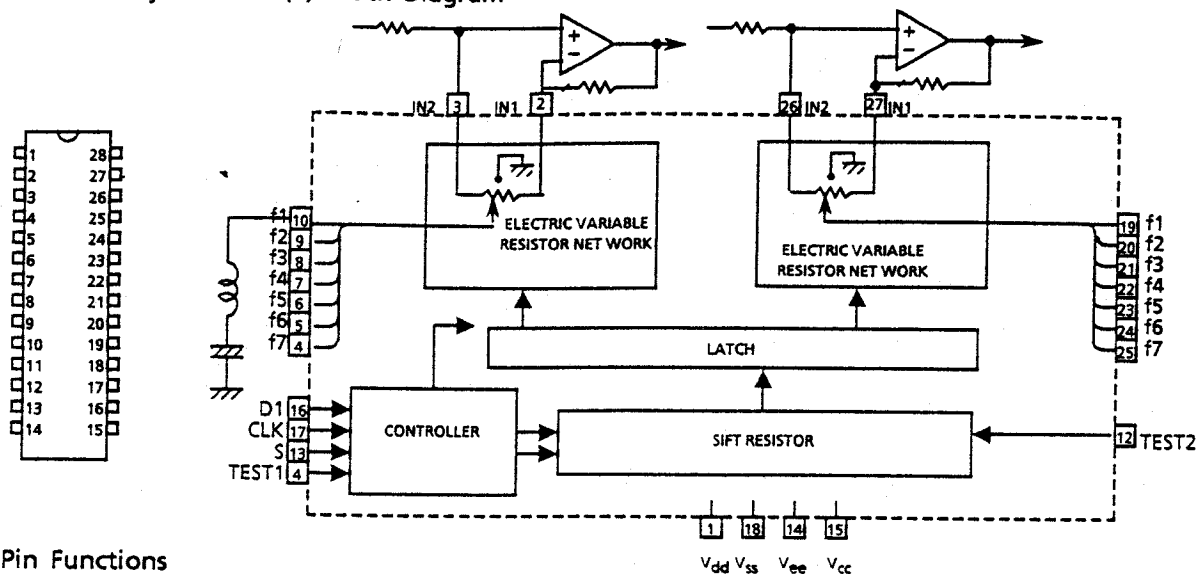
3. First 10bits are used to source select. Last 4 bits are chip select. The switches (S1~S8) are connected to common terminals (COM1~COM3) according to the DATA from computer.

| | Switch Select bit | | | | | | | | CH1 | CH2 | Chip Select bit | | | | | |
|---------|--|----|----|----|----|----|----|----|--------------------|-----|-----------------|-----|-----|-----|-----|---|
| | S1 | S2 | S3 | S4 | S5 | S6 | S7 | S8 | (L-S1~S8)(R-S1~S8) | S9 | S10 | S11 | S12 | S13 | S14 | |
| TC9163N | The switch is ON when the data is "1". | | | | | | | | | | | | 1 | 0 | 0 | 0 |
| TC9164N | | | | | | | | | | | | | 0 | 1 | 0 | 0 |

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■ IC641 : LC7522 (Variable Resistor for SEA Control)

- (1) Terminal Layout (2) Block Diagram



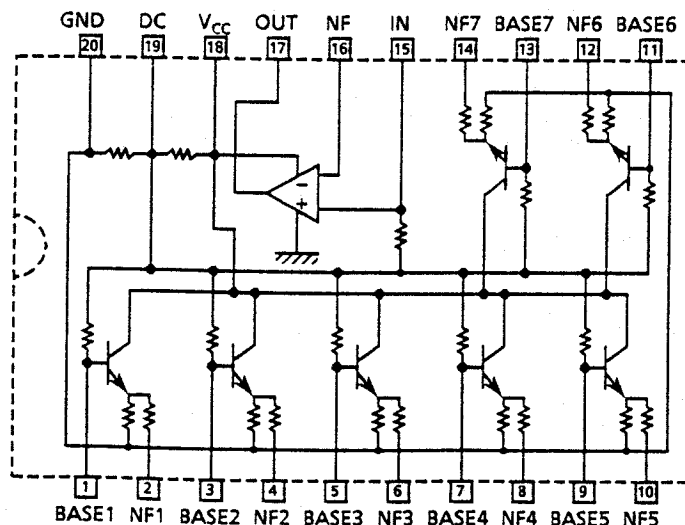
(3) Pin Functions

| Pin No. | Pin Name | Functions |
|---------------|-----------------|---|
| 1 | V _{DD} | Power supply +7V for audio signal |
| 18 | V _{SS} | Ground. |
| 14 | V _{EE} | Power supply -7V for audio signal. |
| 15 | V _{CC} | Power supply +5V |
| 2, 27 | IN 1 | Audio signal input |
| 3, 26 | IN 2 | The inversion signal of the operational amplifier inputs to IN 1 normally. The non-inversion signal of the operational amplifier inputs to IN 2 normally. |
| 16 | DI | Data input from the CPU. Schmitt inverter type |
| 17 | CLK | Clock signal input from the CPU. Schmitt inverter type |
| 4~10 19~25 | f1~f7 | For connect to band-pass filter. f1~f7x2 (Left and Right) |
| 11 | TEST 1 | Not use |
| 12 | TEST 2 | Not use |
| 13 | S | Chip Select |
| 28 | NC | Not use |

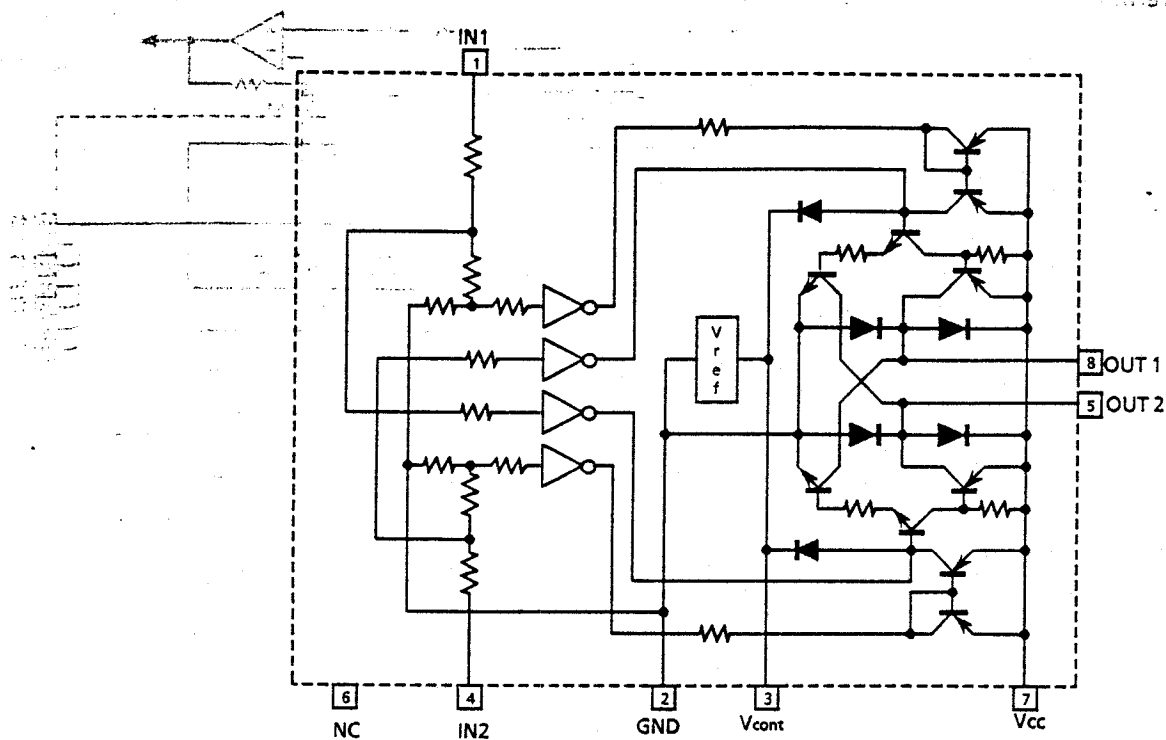
■ LA3607S (IC643, IC644) : S.E.A. GRAPHIC EQUALIZER

1. Functions

It makes inductive characteristic instead of coil.

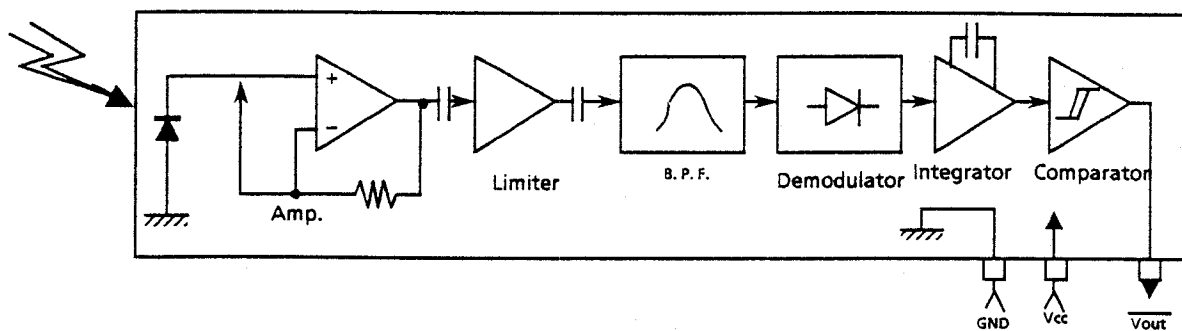


■ LB1639-CV (IC972) : Motor Driver



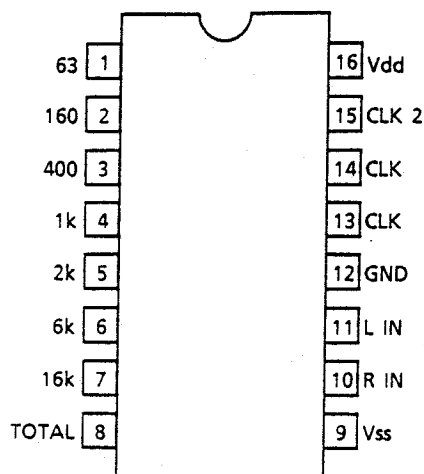
| IN 1 | IN 2 | OUT 1 | OUT 2 | MOTOR |
|------|------|-------|-------|-------------------|
| H | L | H | L | CLOCKWISE |
| L | H | L | H | COUNTER-CLOCKWISE |
| H | H | OFF | OFF | WAITING |
| L | L | OFF | OFF | WAITING |

■ GP1U501X (IC906) : Receiver for remote controller



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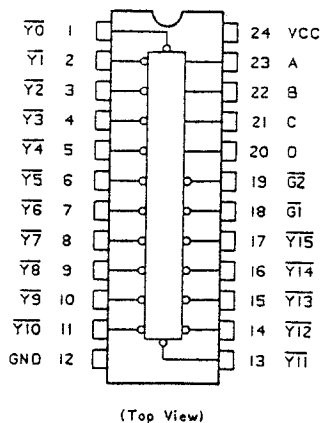
■ XR1091DCP (IC095) : Display Filter



| Pin No. | Symbol | Descriptions |
|---------|--------|--|
| 1 | 63 | Peak hold output of 63Hz band-pass filter |
| 2 | 160 | Peak hold output of 160Hz band-pass filter |
| 3 | 400 | Peak hold output of 400Hz band-pass filter |
| 4 | 1k | Peak hold output of 1kHz band-pass filter |
| 5 | 2k | Peak hold output of 2kHz band-pass filter |
| 6 | 6k | Peak hold output of 6kHz band-pass filter |
| 7 | 16k | Peak hold output of 16Hz band-pass filter |
| 8 | TOTAL | Total frequency output (peak hold) |

| Pin No. | Symbol | Descriptions |
|---------|---------|---|
| 9 | Vss | Power supply (-6V) |
| 10 | R IN | Right channel input |
| 11 | L IN | Left channel input : Connecting to ground |
| 12 | GND | Ground terminal |
| 13 | CLK | Connecting capacitor for clock |
| 14 | CLK | Connecting resistor to pin 13 for clock |
| 15 | CLK / 2 | 1/2 clock output |
| 16 | Vdd | Power supply (+6V) |

■ TC74HC154AP (IC904) : Decoder

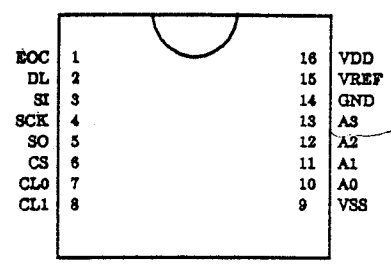


| INPUTS | | | | | | SELECTED OUT PUT(I) |
|--------|----|---|---|---|---|------------------------|
| G1 | G2 | D | C | B | A | |
| L | L | L | L | L | L | Y0 |
| L | L | L | L | L | H | Y1 |
| L | L | L | L | H | L | Y2 |
| L | L | L | L | H | H | Y3 |
| L | L | L | H | L | L | Y4 |
| L | L | L | H | L | H | Y5 |
| L | L | L | H | H | L | Y6 |
| L | L | L | H | H | H | Y7 |
| L | L | H | L | L | L | Y8 |
| L | L | H | L | L | H | Y9 |
| L | L | H | L | H | L | Y10 |
| L | L | H | L | H | H | Y11 |
| L | L | H | H | L | L | Y12 |
| L | L | H | H | L | H | Y13 |
| L | L | H | H | H | L | Y14 |
| L | L | H | H | H | H | Y15 |
| X | H | X | X | X | X | NONE |
| H | X | X | X | X | X | NONE |

X : Don't care

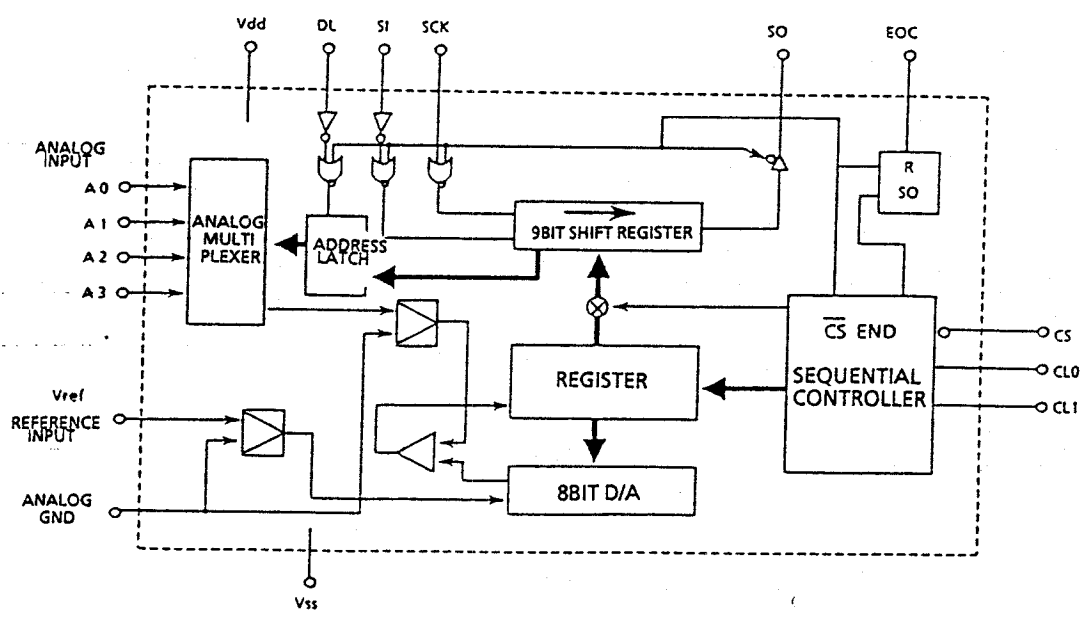
■ μ PD7001C(IC093)..... A/D Converter

1. Terminal Layout

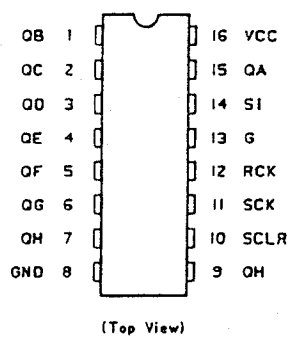


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2. Block Diagram



■ TC74HC595AP(IC905)..... 8Bit Shift Register



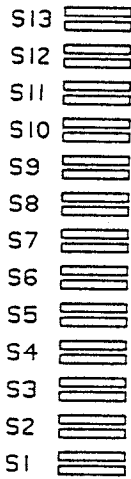
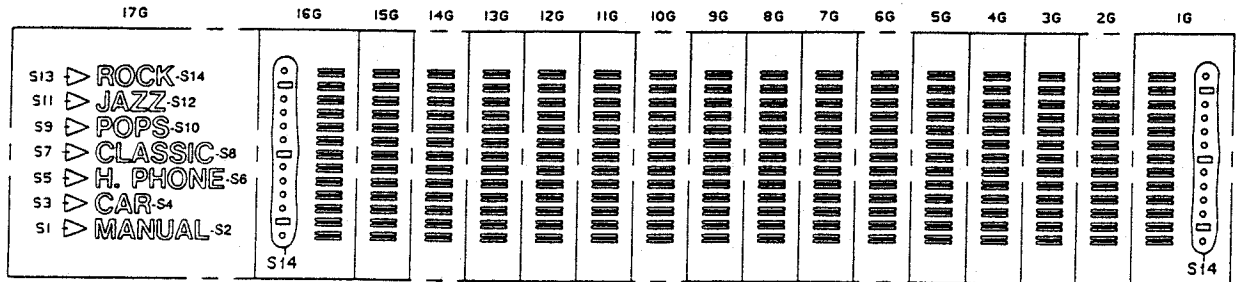
| Inputs | | | | | Function |
|--------|-----|------|-----|---|---|
| B1 | SCK | SCLR | RCK | G | |
| X | X | X | X | H | Output (QA-QH) disable. |
| X | X | X | X | L | Output (CA-QH) enable. |
| X | X | L | X | X | Shift register is cleared. |
| L | | H | X | X | Condition of shift register in initial stage is "L". In the other stages, data from the former stage is stored. |
| H | | H | X | X | Condition of shift register in initial stage is "H". In the other stages, data from the former stage is stored. |
| X | | H | X | X | Shift register does not change. |
| X | X | X | | X | Shift register data is stored in the storage register. |
| X | X | X | | X | Storage register does not change. |

X: Don't care

Internal Connections for the Display Tube

■ FL901 : ELU0001-106

(1) Grid Division



(2) Terminal Connections

PIN CONNECTION

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------|---|---|---|---|----|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| PIN NO. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| CONNECTION | F | F | N | N | 17 | S | S | S | 17 | S | S | 16 | 16 | S | 15 | S | 14 | S | 13 | S | 12 | S | 11 | 10 | S | 9 | S | 8 | S | 7 |
| | I | I | P | C | G | I | 2 | 3 | G | 4 | 5 | G | G | 6 | G | 7 | G | 8 | G | 9 | G | 10 | G | G | 11 | G | 12 | G | 13 | G |

| | | | | | | | | | | | | | | | | |
|------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| PIN NO. | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 |
| CONNECTION | S | 6 | 5 | N | 4 | N | 3 | N | 2 | N | I | N | I | N | F | F |
| | 14 | G | G | C | G | C | G | C | G | C | G | C | G | P | 2 | 2 |

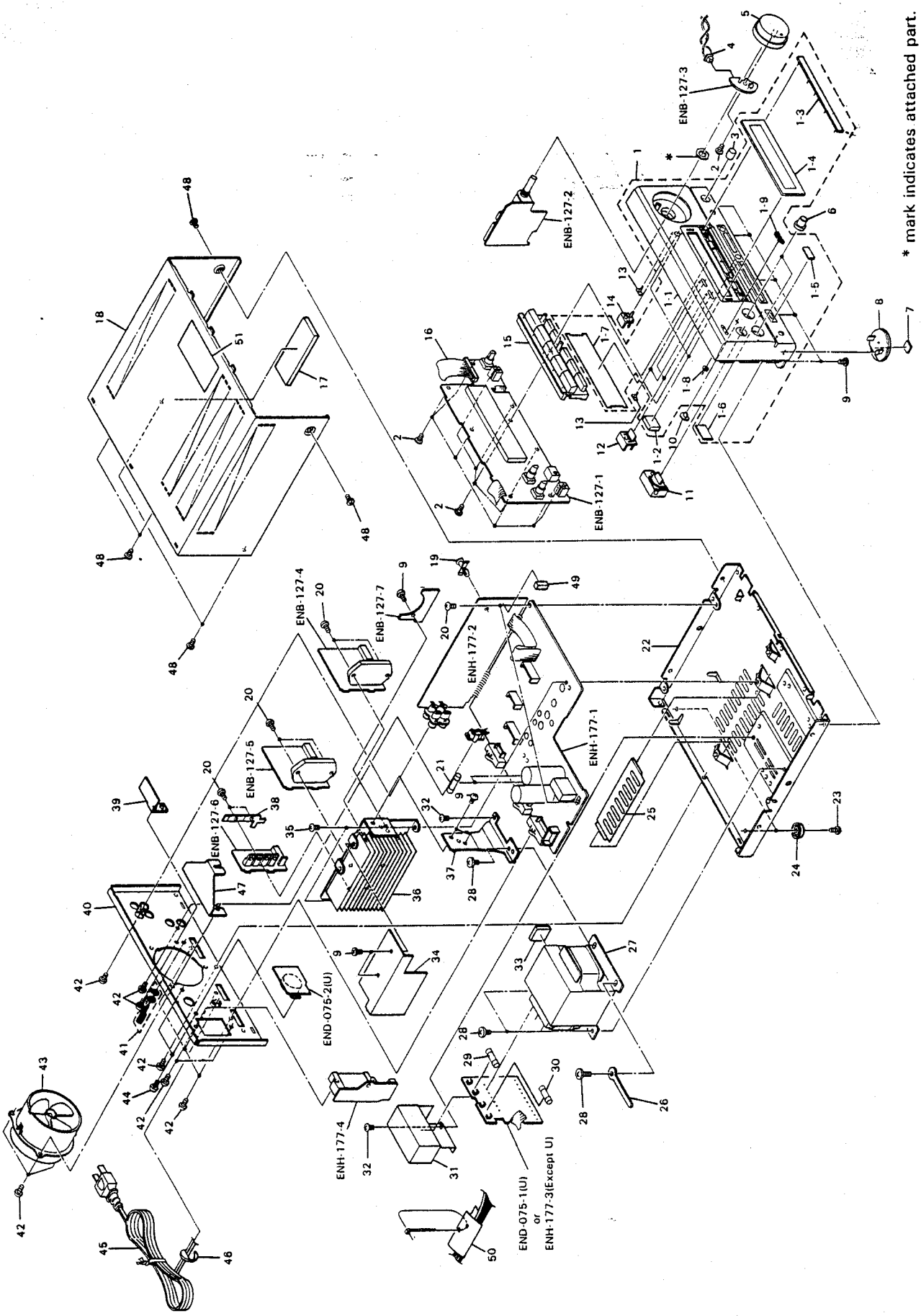
PARTS LIST

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| ■ ENB-127 <input type="checkbox"/> System Control & FL Display & Power Amplifier PC Board Ass'y | 2-9 |
| ■ END-075 <input checked="" type="checkbox"/> Power Primary PC Board Ass'y | 2-12 |

General Exploded View and Parts List



■ Parts List

| △ | Item | Part Number | Part Name | Q'ty | Description | Areas |
|---|------|-----------------|-------------------|------|---|-----------------------|
| | 1 | EFP-AXMX70BKE(S | Front Panel Ass'y | 1 | | |
| | 1-1 | E102322-005 | Front Panel | 1 | | |
| | 1-2 | E306805-003 | Spacer | 2 | | |
| | 1-3 | E306922-003 | Fitting | 1 | | |
| | 1-4 | E306925-002 | Window Screen | 1 | | |
| | 1-5 | E406093-002 | Remote Plate | 1 | For Service Manuals Contact MAURITRON TECHNICAL SERVICES 8 Cherry Tree Rd., Chinnor Oxon OX9 4QY Tel:- 01844-351694 Fax:- 01844-352554 Email:- enquiries@mauritron.co.uk | |
| | 1-6 | E406259-002 | Spacer | 1 | | |
| | 1-7 | E406575-001 | FL Screen | 1 | | |
| | 1-8 | E60912-003 | Speed Nut | 1 | | |
| | 1-9 | PQ42561 | JVC Mark | 1 | | |
| | 2 | SDSF2608Z | Screw | 11 | | |
| | 3 | E306921-001 | Knob | 1 | MIXING | |
| | 4 | EWS142-025 | Socket Wire Ass'y | 1 | | |
| | 5 | E306918-002 | Volume Knob Ass'y | 1 | | |
| | 6 | E306920-001 | Knob | 2 | BALANCE BASS | |
| | 7 | E75896-001 | Spacer | 2 | for Foot (Front) | |
| | 8 | E306935-001 | Foot | 2 | Front | |
| | 9 | SDSG3008M | Screw | 10 | | |
| | 10 | E406089-001 | Indicator | 1 | STANDBY | |
| | 11 | E306914-002 | Push Button Ass'y | 1 | POWER | |
| | 12 | E306916-002 | Push Button | 2 | SORROUND | |
| | 13 | E406091-001 | Indicator | 3 | | |
| | 14 | E306917-001 | Push Button | 1 | AI | |
| | 15 | E306913-001 | Push Button Ass'y | 1 | SOURCE | |
| | 16 | EWR1ZE-11TT | Flat Cable | 1 | | |
| | 17 | E306805-024 | Spacer | 1 | for Metal Cover | |
| | 18 | E206809-006 | Metal Cover | 1 | | |
| | 19 | E69384-002 | Fastener | 1 | | |
| △ | 20 | SBSG3014Z | Screw | 8 | | |
| △ | 21 | QMF51U1-1R6S | Fuse | 2 | | J, C |
| △ | | QMF51A2-1R6S | Fuse | 2 | | Except J, C, BS BS |
| △ | | QMF51E2-1R6SBS | Fuse | 2 | | |
| | 22 | E102324-004 | Chassis Base | 1 | | |
| | 23 | SBSG3010N | Screw | 2 | for Foot (Rear) | |
| | 24 | E47227-029 | Foot | 2 | Rear | |
| | 25 | E406638-001 | Protect Sheet | 1 | | |
| △ | 26 | E72018-001 | Wire Clamp | 1 | | |
| △ | 27 | ETP1050-23JA | Power Transformer | 1 | | J, C |
| △ | | ETP1050-23FA | Power Transformer | 1 | | U |
| △ | | ETP1050-23EA | Power Transformer | 1 | | A, E, EF, G, GI |
| △ | 28 | ETP1050-23EABS | Power Transformer | 1 | for Power Transformer | BS |
| △ | 29 | E65389-004 | Special Screw | 4 | | J, C |
| △ | | QMF51U1-4R0S | Fuse | 1 | | Except J, C, BS |
| △ | | QMF51A2-1R6S | Fuse | 1 | | BS |
| △ | | QMF51E2-1R6SBS | Fuse | 1 | | |
| △ | 30 | QMF51A2-4R0S | Fuse | 1 | | U |
| | 31 | E307564-001 | Primary Cover | 1 | | |
| | 32 | SBSG3006M | Screw | 2 | | |
| | 33 | E306805-025 | Spacer | 1 | | |
| | 34 | E307511-001 | Heat Sink | 1 | | |
| | 35 | SBSG3010CC | Screw | 2 | | |
| | 36 | E307506-001 | Heat Sink | 1 | | |
| | 37 | E406636-001 | Heat Sink Bracket | 1 | | |
| | 38 | E406237-002 | Leaf Spring | 1 | | |
| | 39 | E406637-001 | Shield Plate | 1 | | |
| | 40 | E206807-014 | Rear Panel | 1 | | J |
| | | E206807-015 | Rear Panel | 1 | | C |
| | | E206807-016 | Rear Panel | 1 | | U |
| | | E206807-017 | Rear Panel | 1 | | A |
| | | E206807-018 | Rear Panel | 1 | | E, EF, G, GI |

| △ | Item | Part Number | Part Name | Q'ty | Description | Areas |
|---|------|---------------|--------------------|------|----------------------|-------------|
| | 41 | E206807-019 | Rear Panel | 1 | | BS |
| | 42 | E70078-003 | GND Terminal | 1 | | |
| | 43 | SBSG3008M | Screw | 13 | | |
| | 44 | E206880-001 | Fan Ass'y | 1 | | |
| | 44 | SBST3006M | Screw | 2 | for Voltage Selector | U |
| △ | 45 | QMP1D00-200H | Power Cord | 1 | | J, C |
| △ | | QMP2560-244 | Power Cord | 1 | | A |
| △ | | QMP3900-200 | Power Cord | 1 | | E, EF |
| △ | | QMP39A0-200 | Power Cord | 1 | | G, GI |
| △ | | QMP7520-200 | Power Cord | 1 | | U |
| △ | 46 | QMP9017-008BS | Power Cord | 1 | | BS |
| △ | | QHS3876-162 | Cord Stopper | 1 | | Except BS |
| △ | | QHS3876-162BS | Cord Stopper | 1 | | BS |
| | 47 | E307571-001 | Heat Sink Bracket | 1 | | |
| | 48 | E75440-001 | Special Screw | 6 | for Metal Cover | |
| | 49 | E306805-027 | Spacer | 1 | | |
| | 50 | E406642-001 | Protect Cover | 1 | | Except J, C |
| | 51 | E67000-017 | Caution Label | 1 | | |
| | - | E307570-001 | Number Label | 1 | | J |
| | - | E61029-009 | Number Label | 1 | | Except J |
| | - | E76016-004 | Caution Label | 1 | | J |
| | - | E65507-001 | Caution Label | 1 | | C |
| | - | E75803-001 | Fuse Caution Label | 1 | | J |
| | - | QZL1001-001 | UL Label | 1 | | J |
| | - | E45858-002 | CSA Label | 1 | | C |
| | - | E70028-001 | Approval Label | 1 | | E |
| | - | E74792-100 | FTZ Label | 1 | | G |

The Marks for Designated Areas

△ Safety Parts

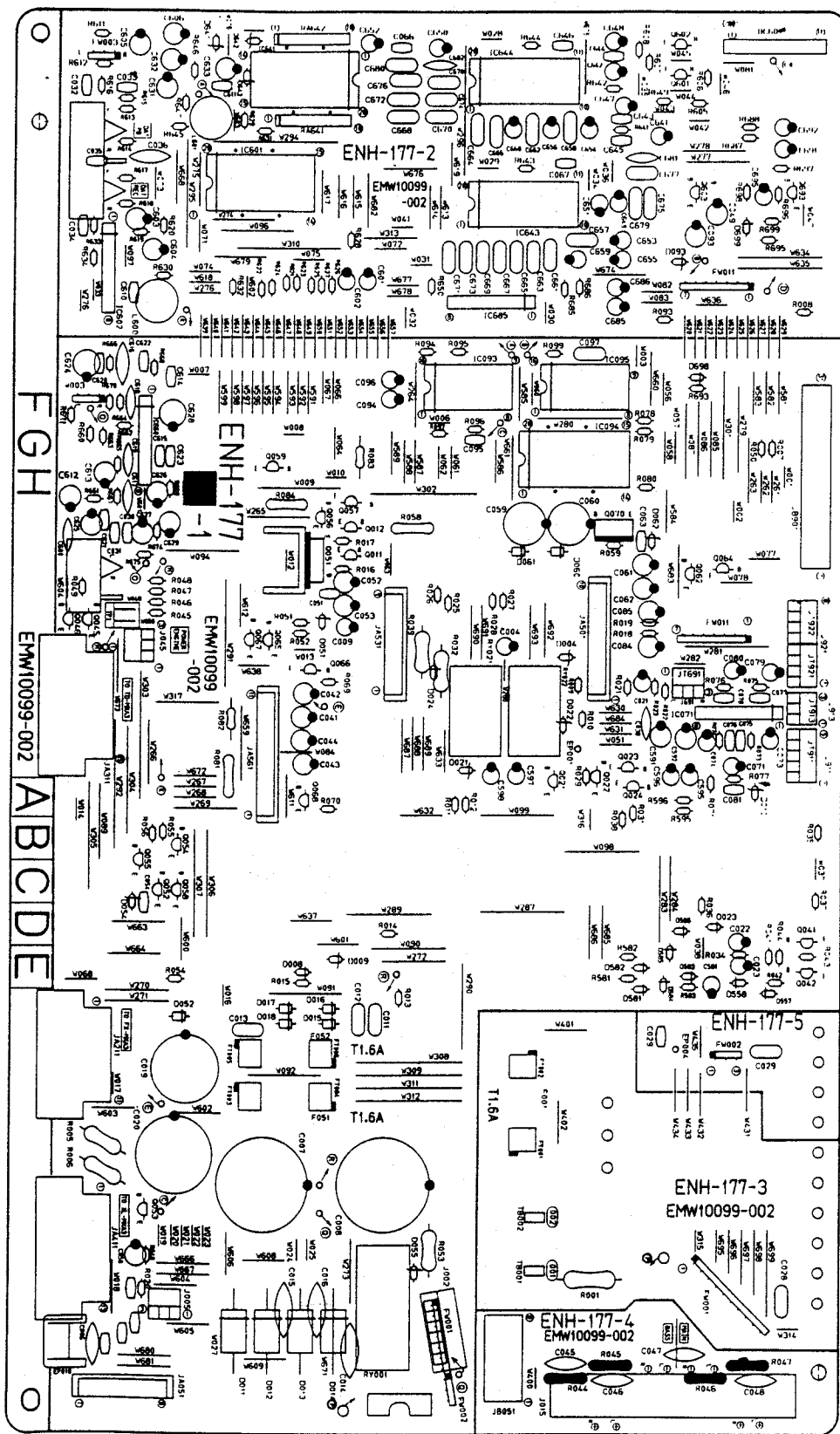
- J.....the U.S.A.
 - C.....Canada
 - A.....Australia
 - E,EF.....Continental Europe
 - G.....Germany
 - BS.....the U.K.
 - GI.....Italy
 - U.....Universal Type
- No mark indicates all areas.

Printed Circuit Board Ass'y and Parts List

■ ENH-177 □ Analog Switch & Power Supply PC Board Ass'y

Note: ENH-177 □ varies according to the areas employed. See note (1) when placing an order.

For Service Manuals Contact:
MAURITRON TECHNICAL SERVICES
8 Cherry Tree Rd, Chinnor
Oxon OX9 4QY
Tel: 01844-351694 Fax: 01844-352554
Email: enquiries@mauritron.co.uk



Note (1)

| PC Board Ass'y | Designated Areas |
|---------------------|--------------------|
| ENH-177 A | the U.S.A. |
| ENH-177 B | Canada |
| ENH-177 C | Universal Type |
| ENH-177 D | Continental Europe |
| ENH-177 E BS | the U.K. |
| ENH-177 F | Germany, Italy |
| ENH-177 G | Australia |

Transistors

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|---------------|--------------------|------|
| | Q011 | DTC114YS | SILICON ROHM | |
| | Q012 | DTC114YS | SILICON ROHM | |
| | Q021 | 2SC1685(R,S) | SILICON MATSUSHITA | |
| | Q022 | 2SC1685(R,S) | SILICON MATSUSHITA | |
| | Q023 | 2SC1740S(R,S) | SILICON ROHM | |
| | Q024 | 2SA733A(P,Q) | SILICON NEC | |
| | Q041 | 2SC1740S(R,S) | SILICON ROHM | |
| | Q042 | 2SC1740S(R,S) | SILICON ROHM | |
| | Q045 | 2SD2144S(VW) | SILICON ROHM | |
| | Q046 | 2SD2144S(VW) | SILICON ROHM | |
| | Q051 | 2SD1944(J,K) | SILICON ROHM | |
| | Q052 | 2SC1741A(Q,R) | SILICON ROHM | |
| | Q053 | 2SC1685(R,S) | SILICON MATSUSHITA | |
| | Q054 | 2SD1302(S,T) | SILICON MATSUSHITA | |
| | Q055 | 2SD1302(S,T) | SILICON MATSUSHITA | |
| | Q056 | DTA114YS | SILICON ROHM | |
| | Q057 | DTC114ES | SILICON ROHM | |
| | Q058 | DTC114YS | SILICON ROHM | |
| | Q059 | DTC114YS | SILICON ROHM | |
| | Q062 | DTA144ES | SILICON ROHM | |
| | Q064 | DTC114YS | SILICON ROHM | |
| | Q065 | DTC144ES | SILICON ROHM | |
| | Q066 | DTA114YS | SILICON ROHM | |
| | Q067 | DTA144ES | SILICON ROHM | |
| | Q068 | DTC114YS | SILICON ROHM | |
| | Q070 | 2SB1357(E,F) | SILICON ROHM | |
| | Q601 | 2SD2144S(VW) | SILICON ROHM | |
| | Q602 | 2SD2144S(VW) | SILICON ROHM | |
| | Q603 | DTA144ES | SILICON ROHM | |
| | Q693 | 2SC1740S(R,S) | SILICON ROHM | |

Δ : SAFETY PARTS

I.C.s

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|-------|-------------|-----------------|------|
| | IC071 | BA15218N | I.C. ROHM | |
| | IC093 | UPD7001C | I.C. NEC | |
| | IC094 | TC9164N | I.C. TOSHIBA | |
| | IC095 | XR-1091DCP | I.C. EXAR JAPAN | |
| | IC601 | TC9163N | I.C. TOSHIBA | |
| | IC602 | BA15218N | I.C. ROHM | |
| | IC641 | LC7522 | I.C. SANYO | |
| | IC643 | LA3607S | I.C. SANYO | |
| | IC644 | LA3607S | I.C. SANYO | |
| | IC660 | VC4580LD | I.C. DAINICHI | |
| | IC685 | BA15218N | I.C. ROHM | |

Δ : SAFETY PARTS

Diodes

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|--------|-------------|--------------------|------|
| | D004 | MTZ12JC | ZENER ROHM | |
| | D008 | 1SS133 | SILICON ROHM | |
| | D009 | MTZ5.1JC | ZENER ROHM | |
| | D010 | MTZ5.1JC | ZENER ROHM | |
| | D011 | S3V20F | SILICON SINDENGEN | A |
| | D011 | S3V20F | SILICON SINDENGEN | B |
| | Δ D011 | 30DL2FC | SILICON NIHONINTER | C |
| | D011 | S3V20F | SILICON SINDENGEN | D |
| | D011 | S3V20F | SILICON SINDENGEN | EBS |
| | Δ D011 | 30DL2FC | SILICON NIHONINTER | F |
| | D011 | S3V20F | SILICON SINDENGEN | G |
| | D012 | S3V20F | SILICON SINDENGEN | A |
| | D012 | S3V20F | SILICON SINDENGEN | B |
| | Δ D012 | 30DL2FC | SILICON NIHONINTER | C |
| | D012 | S3V20F | SILICON SINDENGEN | D |

Δ : SAFETY PARTS

Diodes

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|--------|-------------|--------------------|------|
| | D012 | S3V20F | SILICON SINDENGEN | EBS |
| | D012 | 30DL2FC | SILICON NIHONINTER | F |
| | D012 | S3V20F | SILICON SINDENGEN | G |
| | D013 | S3V20F | SILICON SINDENGEN | A |
| | D013 | S3V20F | SILICON SINDENGEN | B |
| | Δ D013 | 30DL2FC | SILICON NIHONINTER | C |
| | D013 | S3V20F | SILICON SINDENGEN | D |
| | D013 | S3V20F | SILICON SINDENGEN | EBS |
| | Δ D013 | 30DL2FC | SILICON NIHONINTER | F |
| | D013 | S3V20F | SILICON SINDENGEN | G |
| | D014 | S3V20F | SILICON SINDENGEN | A |
| | D014 | S3V20F | SILICON SINDENGEN | B |
| | Δ D014 | 30DL2FC | SILICON NIHONINTER | C |
| | D014 | S3V20F | SILICON SINDENGEN | D |
| | D014 | S3V20F | SILICON SINDENGEN | EBS |
| | Δ D014 | 30DL2FC | SILICON NIHONINTER | F |
| | D014 | S3V20F | SILICON SINDENGEN | G |
| | D015 | 1SR139-200 | SILICON ROHM | |
| | D016 | 1SR139-200 | SILICON ROHM | |
| | D017 | 1SR139-200 | SILICON ROHM | |
| | D018 | 1SR139-200 | SILICON ROHM | |
| | D021 | MTZ12JC | ZENER ROHM | |
| | D022 | MTZ12JC | ZENER ROHM | |
| | D023 | 1SS133 | SILICON ROHM | |
| | D024 | 1SS133 | SILICON ROHM | |
| | D051 | MTZ6.2JC | ZENER ROHM | |
| | D052 | 1SR139-200 | SILICON ROHM | |
| | D054 | MTZ7.5JC | ZENER ROHM | |
| | D055 | MTZ12JC | ZENER ROHM | |
| | D060 | 1SR139-200 | SILICON ROHM | |
| | D061 | 1SR139-200 | SILICON ROHM | |
| | D062 | MTZ30JC | ZENER ROHM | |
| | D093 | MTZ5.1JC | ZENER ROHM | |
| | D557 | 1SS133 | SILICON ROHM | |
| | D558 | 1SS133 | SILICON ROHM | |
| | D581 | 1SS133 | SILICON ROHM | |
| | D582 | 1SS133 | SILICON ROHM | |
| | D583 | 1SS133 | SILICON ROHM | |
| | D584 | 1SS133 | SILICON ROHM | |
| | D585 | 1SS133 | SILICON ROHM | |
| | D586 | 1SS133 | SILICON ROHM | |
| | D641 | RD6.8JSB3 | ZENER NEC | |
| | D642 | RD6.8JSB3 | ZENER NEC | |
| | D643 | MTZ5.1JC | ZENER ROHM | |
| | D699 | 1SS133 | SILICON ROHM | |

Δ : SAFETY PARTS

Capacitors

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|--------------|---------------------|------|
| | C004 | QEK51CM-226 | 22MF 16V ELECTRO | |
| | C006 | QCS21HJ-331 | 330PF 50V CERAMIC | |
| | C007 | EEW4205-688T | 6800MF ELECTRO | |
| | C008 | EEW4205-688T | 6800MF ELECTRO | |
| | C009 | QEK51HM-225G | 2.2MF 50V ELECTRO | |
| | C011 | QFLC2AK-103Z | 0.01MF 100V MYLAR | |
| | C012 | QFLC2AK-103Z | 0.01MF 100V MYLAR | |
| | C013 | QFLC2AK-103Z | 0.01MF 100V MYLAR | |
| | C014 | QCE22HP-103 | 0.01MF 500V CERAMIC | |
| | C015 | QCE22HP-103 | 0.01MF 500V CERAMIC | |
| | C016 | QCE22HP-103 | 0.01MF 500V CERAMIC | |
| | C019 | EET3504-228T | 2200MF ELECTRO | |
| | C020 | EET3504-338T | 3300MF ELECTRO | |
| | C021 | QETB1HM-474 | 0.47MF 50V ELECTRO | |
| | C022 | QER51CM-226 | 22MF 16V ELECTRO | |
| | C023 | QER60JM-476 | 47MF 6.3V ELECTRO | |
| | C025 | QCY21HK-102 | 1000PF 50V CERAMIC | |
| | C028 | QFN81HK-103 | 0.01MF 50V MYLAR | |
| | C029 | QFN82AK-103 | 0.01MF 100V MYLAR | D |
| | C029 | QFN82AK-103 | 0.01MF 100V MYLAR | EBS |
| | C029 | QFN82AK-103 | 0.01MF 100V MYLAR | F |
| | C030 | QCB81HK-331 | 330PF 50V CERAMIC | |
| | C031 | QCB81HK-331 | 330PF 50V CERAMIC | |
| | C032 | QCB81HK-331 | 330PF 50V CERAMIC | F |
| | C033 | QCB81HK-331 | 330PF 50V CERAMIC | F |
| | C034 | QCB81HK-331 | 330PF 50V CERAMIC | F |
| | C035 | QCB81HK-331 | 330PF 50V CERAMIC | F |
| | C036 | QCF21HP-102 | 1000PF 50V CERAMIC | |
| | C038 | QCS21HJ-331 | 330PF 50V CERAMIC | F |
| | C041 | QETB1CM-476 | 47MF 16V ELECTRO | |
| | C042 | QETB1CM-476 | 47MF 16V ELECTRO | |
| | C043 | QETB1CM-476 | 47MF 16V ELECTRO | |
| | C044 | QETB1CM-476 | 47MF 16V ELECTRO | |
| | C045 | QFN81HK-103 | 0.01MF 50V MYLAR | F |
| | C046 | QFN81HK-103 | 0.01MF 50V MYLAR | F |
| | C047 | QFN81HK-103 | 0.01MF 50V MYLAR | F |
| | C048 | QFN81HK-103 | 0.01MF 50V MYLAR | F |
| | C049 | QETB1AM-107 | 100MF 10V ELECTRO | |
| | C050 | QETB1HM-106 | 10MF 50V ELECTRO | |
| | C052 | QETB1AM-107 | 100MF 10V ELECTRO | |
| | C053 | QETB1CM-226 | 22MF 16V ELECTRO | |
| | C054 | QCVB1CM-103 | 0.01MF 16V CERAMIC | |
| | C059 | QETB1JM-227 | 220MF 63V ELECTRO | |
| | C060 | QETB1JM-227 | 220MF 63V ELECTRO | |
| | C061 | QETB1HM-226 | 22MF 50V ELECTRO | |

Δ : SAFETY PARTS

Capacitors

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|--------------|---------------------|------|
| | C062 | QETB1HM-226 | 22MF 50V ELECTRO | |
| | C063 | QCGB1HK-102 | 1000PF 50V CERAMIC | F |
| | C066 | QCB1HK-101 | 100PF 50V CERAMIC | F |
| | C067 | QCB1HK-101 | 100PF 50V CERAMIC | F |
| | C071 | QEK51EM-475G | 4.7MF 25V ELECTRO | |
| | C073 | QEK51CM-106G | 10MF 16V ELECTRO | |
| | C074 | QEK51CM-106G | 10MF 16V ELECTRO | |
| | C075 | QCB1HK-101 | 100PF 50V CERAMIC | |
| | C076 | QCB1HK-101 | 100PF 50V CERAMIC | |
| | C077 | QCGB1HK-102 | 1000PF 50V CERAMIC | |
| | C078 | QCGB1HK-102 | 1000PF 50V CERAMIC | |
| | C079 | QEK51EM-475G | 4.7MF 25V ELECTRO | |
| | C080 | QEK51EM-475G | 4.7MF 25V ELECTRO | |
| | C081 | QCGB1HK-102 | 1000PF 50V CERAMIC | |
| | C084 | QEK51EM-106 | 10MF 25V ELECTRO | |
| | C085 | QEK51EM-106 | 10MF 25V ELECTRO | |
| | C086 | QCF21HP-473 | 0.047MF 50V CERAMIC | |
| | C087 | QCF21HP-473 | 0.047MF 50V CERAMIC | |
| | C090 | QETB1HM-475E | 4.7MF 50V ELECTRO | |
| | C091 | QCF21HP-223 | 0.022MF 50V CERAMIC | |
| | C092 | QCF21HP-223 | 0.022MF 50V CERAMIC | |
| | C093 | QEK51CM-106G | 10MF 16V ELECTRO | |
| | C094 | QEK51CM-106G | 10MF 16V ELECTRO | |
| | C095 | QCSB1HJ-470 | 4.7PF 50V CERAMIC | |
| | C096 | QEK51EM-475G | 4.7MF 25V ELECTRO | |
| | C097 | QFLC1HJ-1022 | 1000PF 50V MYLAR | |
| | C581 | QEK51CM-106G | 10MF 16V ELECTRO | |
| | C591 | EEZ5009-106 | 10MF ELECTRO | |
| | C592 | EEZ5009-106 | 10MF ELECTRO | |
| | C595 | QEK51HM-474G | 0.47MF 50V ELECTRO | |
| | C596 | QEK51HM-474G | 0.47MF 50V ELECTRO | |
| | C597 | QETB1HM-474 | 0.47MF 50V ELECTRO | |
| | C598 | QETB1HM-474 | 0.47MF 50V ELECTRO | |
| | C600 | QCC21EM-473 | 0.047MF 25V CERAMIC | |
| | C601 | QETB1HM-475 | 4.7MF 50V ELECTRO | |
| | C602 | QETB1HM-475 | 4.7MF 50V ELECTRO | |
| | C603 | QETB1HM-475 | 4.7MF 50V ELECTRO | |
| | C604 | QETB1HM-475 | 4.7MF 50V ELECTRO | |
| | C605 | QETB1HM-475 | 4.7MF 50V ELECTRO | |
| | C606 | QETB1HM-475 | 4.7MF 50V ELECTRO | |
| | C607 | QCC21EM-473 | 0.047MF 25V CERAMIC | |
| | C608 | QCC21EM-473 | 0.047MF 25V CERAMIC | |
| | C610 | QCB1HK-101 | 100PF 50V CERAMIC | |
| | C611 | QCB1HK-101 | 100PF 50V CERAMIC | |
| | C612 | QETB1HM-475 | 4.7MF 50V ELECTRO | |
| | C613 | QETB1HM-475 | 4.7MF 50V ELECTRO | |
| | C614 | QCB1HK-101 | 100PF 50V CERAMIC | |
| | C615 | QCB1HK-101 | 100PF 50V CERAMIC | |
| | C616 | QCY21HK-182 | 1800PF 50V CERAMIC | |
| | C617 | QCY21HK-182 | 1800PF 50V CERAMIC | |
| | C618 | QCY21HK-682 | 6800PF 50V CERAMIC | |
| | C619 | QCY21HK-682 | 6800PF 50V CERAMIC | |
| | C620 | QCB1HK-101 | 100PF 50V CERAMIC | |
| | C621 | QCB1HK-101 | 100PF 50V CERAMIC | |
| | C622 | QCB1HK-101 | 100PF 50V CERAMIC | |
| | C623 | QCB1HK-101 | 100PF 50V CERAMIC | |
| | C624 | QETB1HM-475 | 4.7MF 50V ELECTRO | |
| | C625 | QETB1HM-475 | 4.7MF 50V ELECTRO | |
| | C626 | QETB1EM-476 | 4.7MF 25V ELECTRO | |
| | C627 | QETB1EM-476 | 4.7MF 25V ELECTRO | |
| | C628 | QETB1EM-107 | 100MF 25V ELECTRO | |
| | C629 | QETB1EM-107 | 100MF 25V ELECTRO | |
| | C631 | QETB1CM-226 | 22MF 16V ELECTRO | |
| | C632 | QETB1CM-226 | 22MF 16V ELECTRO | |
| | C633 | QETB1AM-107 | 100MF 10V ELECTRO | |
| | C641 | QEK51EM-475G | 4.7MF 25V ELECTRO | |
| | C642 | QEK51EM-475G | 4.7MF 25V ELECTRO | |
| | C643 | QCSB1HJ-470 | 4.7PF 50V CERAMIC | |
| | C644 | QCSB1HJ-470 | 4.7PF 50V CERAMIC | |
| | C645 | QCB1HK-101 | 100PF 50V CERAMIC | |
| | C646 | QCB1HK-101 | 100PF 50V CERAMIC | |
| | C647 | QEK51EM-475G | 4.7MF 25V ELECTRO | |
| | C648 | QEK51EM-475G | 4.7MF 25V ELECTRO | |
| | C649 | QEK51EM-475G | 4.7MF 25V ELECTRO | |
| | C650 | QEK51EM-475G | 4.7MF 25V ELECTRO | |
| | C651 | QEK51HM-225G | 2.2MF 50V ELECTRO | |
| | C652 | QEK51HM-225G | 2.2MF 50V ELECTRO | |
| | C653 | QEK51HM-474G | 0.47MF 50V ELECTRO | |
| | C654 | QEK51HM-474G | 0.47MF 50V ELECTRO | |
| | C655 | QEK51HM-224G | 0.22MF 50V ELECTRO | |
| | C656 | QEK51HM-224G | 0.22MF 50V ELECTRO | |
| | C657 | QFV81HJ-124 | 0.12MF 50V T. FILM | |
| | C658 | QFV81HJ-124 | 0.12MF 50V T. FILM | |
| | C659 | QEK51HM-224G | 0.22MF 50V ELECTRO | |
| | C660 | QEK51HM-224G | 0.22MF 50V ELECTRO | |
| | C661 | QFV81HJ-473 | 0.047MF 50V T. FILM | |
| | C662 | QFV81HJ-473 | 0.047MF 50V T. FILM | |
| | C663 | QFV81HJ-104 | 0.1MF 50V T. FILM | |
| | C664 | QFV81HJ-104 | 0.1MF 50V T. FILM | |
| | C665 | QFV81HJ-183 | 0.018MF 50V T. FILM | |
| | C666 | QFV81HJ-183 | 0.018MF 50V T. FILM | |
| | C667 | QFV81HJ-393 | 0.039MF 50V T. FILM | |
| | C668 | QFV81HJ-393 | 0.039MF 50V T. FILM | |
| | C669 | QFLB1HJ-682 | 6800PF 50V MYLAR | |
| | C670 | QFLB1HJ-682 | 6800PF 50V MYLAR | |
| | C671 | QFV81HJ-153 | 0.015MF 50V T. FILM | |
| | C672 | QFV81HJ-153 | 0.015MF 50V T. FILM | |
| | C673 | QFLB1HJ-272 | 2700PF 50V MYLAR | |

Δ SAFETY PARTS

Capacitors

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|--------------|--------------------|------|
| | C674 | QFLB1HJ-272 | 2700PF 50V MYLAR | |
| | C675 | QFLB1HJ-562 | 5600PF 50V MYLAR | |
| | C676 | QFLB1HJ-562 | 5600PF 50V MYLAR | |
| | C677 | QFLB1HJ-122 | 1200PF 50V MYLAR | |
| | C678 | QFLB1HJ-122 | 1200PF 50V MYLAR | |
| | C679 | QFLB1HJ-222 | 2200PF 50V MYLAR | |
| | C680 | QFLB1HJ-222 | 2200PF 50V MYLAR | |
| | C681 | QCS21HJ-471 | 470PF 50V CERAMIC | |
| | C682 | QCS21HJ-471 | 470PF 50V CERAMIC | |
| | C685 | QEK51EM-475G | 4.7MF 25V ELECTRO | |
| | C686 | QEK51EM-475G | 4.7MF 25V ELECTRO | |
| | C691 | QEK51EM-475G | 4.7MF 25V ELECTRO | |
| | C692 | QEK51EM-475G | 4.7MF 25V ELECTRO | |
| | C695 | QEK51HM-474G | 0.47MF 50V ELECTRO | |

Δ SAFETY PARTS

Resistors

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|----------------|---------------------|------|
| | R001 | QRC128K-275EM | 2.7M 1/2W COMPOSI | A |
| | R001 | QRC128K-275EM | 2.7M 1/2W COMPOSI | B |
| | R005 | QRX012J-R82A | 0.82 1W M. FILM | |
| | R006 | QRX012J-R82A | 0.82 1W M. FILM | |
| | R007 | QRD167J-102 | 1K 1/6W CARBON | |
| | R008 | QRD167J-332 | 3.3K 1/6W CARBON | |
| | R009 | QRD167J-102 | 1K 1/6W CARBON | |
| | R010 | QRD167J-102 | 1K 1/6W CARBON | |
| | R011 | QRD167J-102 | 1K 1/6W CARBON | |
| | R012 | QRD167J-102 | 1K 1/6W CARBON | |
| | R015 | QRD167J-103 | 10K 1/6W CARBON | |
| | R016 | QRD167J-103 | 10K 1/6W CARBON | |
| | R017 | QRD167J-102 | 1K 1/6W CARBON | |
| | R018 | QRD167J-681 | 680 1/6W CARBON | |
| | R019 | QRD167J-681 | 680 1/6W CARBON | |
| | R021 | QRD167J-105 | 1M 1/6W CARBON | |
| | R022 | QRD167J-473 | 47K 1/6W CARBON | |
| | R023 | QRD167J-224 | 220K 1/6W CARBON | |
| | R025 | QRD167J-823 | 82K 1/6W CARBON | |
| | R026 | QRD167J-104 | 100K 1/6W CARBON | |
| | R027 | QRD167J-823 | 82K 1/6W CARBON | |
| | R028 | QRD167J-104 | 100K 1/6W CARBON | |
| | R029 | QRD167J-473 | 47K 1/6W CARBON | |
| | R031 | QRD167J-103 | 10K 1/6W CARBON | |
| | R032 | QRG012J-271A | 270 1W O.M. FILM | |
| | R034 | QRD167J-104 | 100K 1/6W CARBON | |
| | R035 | QRD167J-222 | 2.2K 1/6W CARBON | |
| | R036 | QRD167J-152 | 1.5K 1/6W CARBON | |
| | R037 | QRD167J-103 | 10K 1/6W CARBON | |
| | R038 | QRD167J-104 | 100K 1/6W CARBON | |
| | R039 | QRG012J-122A | 1.2K 1W O.M. FILM | |
| | R040 | QRD167J-223 | 22K 1/6W CARBON | |
| | R041 | QRD167J-302 | 3K 1/6W CARBON | |
| | R042 | QRD167J-820 | 82 1/6W CARBON | |
| | R043 | QRD167J-820 | 82 1/6W CARBON | |
| | R044 | QRD167J-751 | 750 1/6W CARBON | |
| | R044 | QRD14CJ-100S | 10 1/4W UNF. CARBON | F |
| | R045 | QRD14CJ-100S | 10 1/4W UNF. CARBON | F |
| | R046 | QRD14CJ-100S | 10 1/4W UNF. CARBON | F |
| | R047 | QRD14CJ-100S | 10 1/4W UNF. CARBON | F |
| | R049 | QRD167J-222 | 2.2K 1/6W CARBON | |
| | R050 | QRD167J-222 | 2.2K 1/6W CARBON | |
| | R051 | QRD167J-103 | 10K 1/6W CARBON | |
| | R052 | QRD167J-103 | 10K 1/6W CARBON | |
| | R053 | QRG012J-221A | 220 1W O.M. FILM | |
| | R054 | QRD167J-222 | 2.2K 1/6W CARBON | |
| | R055 | QRD167J-562 | 5.6K 1/6W CARBON | |
| | R056 | QRD167J-562 | 5.6K 1/6W CARBON | |
| | R058 | PTH61G25AR4R7M | FUSIBLE | |
| | R059 | QRD167J-332 | 3.3K 1/6W CARBON | |
| | R065 | QRD167J-430 | 43 1/6W CARBON | |
| | R066 | QRD167J-430 | 43 1/6W CARBON | |
| | R067 | QRD167J-240 | 24 1/6W CARBON | |
| | R068 | QRD167J-240 | 24 1/6W CARBON | |
| | R069 | QRD167J-103 | 10K 1/6W CARBON | |
| | R070 | QRD167J-103 | 10K 1/6W CARBON | |
| | R071 | QRD167J-103 | 10K 1/6W CARBON | |
| | R073 | QRD167J-331 | 330 1/6W CARBON | |
| | R074 | QRD167J-331 | 330 1/6W CARBON | |
| | R075 | QRD167J-223 | 22K 1/6W CARBON | |
| | R076 | QRD167J-223 | 22K 1/6W CARBON | |
| | R077 | QRD167J-331 | 330 1/6W CARBON | |
| | R078 | QRD167J-102 | 1K 1/6W CARBON | |
| | R079 | QRD167J-102 | 1K 1/6W CARBON | |
| | R080 | QRD167J-102 | 1K 1/6W CARBON | |
| | R081 | QRX012J-R47A | 0.47 1W M. FILM | C |
| | R081 | QRX012J-R47A | 0.47 1W M. FILM | D |
| | R081 | QRX012J-R47A | 0.47 1W M. FILM | EBS |
| | R081 | QRX012J-R47A | 0.47 1W M. FILM | F |
| | R081 | QRX012J-R47A | 0.47 1W M. FILM | G |
| | R082 | QRZ0077-100 | 10 1/4W FUSIBLE | |
| | R086 | QRD145J-220S | 22 1/4W UNF. CARBON | A |
| | R086 | QRD145J-220S | 22 1/4W UNF. CARBON | B |
| | R087 | QRD145J-220S | 22 1/4W UNF. CARBON | A |
| | R087 | QRD145J-220S | 22 1/4W UNF. CARBON | B |

Δ SAFETY PARTS

Resistors

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|-------|-------------|----------------------|------|
| | R093 | QRD167J-471 | 470 1/6W CARBON | |
| | R094 | QRD167J-223 | 22K 1/6W CARBON | |
| | R095 | QRD167J-223 | 22K 1/6W CARBON | |
| | R096 | QRD167J-273 | 27K 1/6W CARBON | |
| | R097 | QRD167J-223 | 22K 1/6W CARBON | |
| | R099 | QRD167J-152 | 1.5K 1/6W CARBON | |
| | R581 | QRD167J-153 | 15K 1/6W CARBON | |
| | R582 | QRD167J-153 | 15K 1/6W CARBON | |
| | R583 | QRD167J-103 | 10K 1/6W CARBON | |
| | R595 | QRD167J-272 | 2.7K 1/6W CARBON | |
| | R596 | QRD167J-272 | 2.7K 1/6W CARBON | |
| | R605 | QRD167J-103 | 10K 1/6W CARBON | |
| | R606 | QRD167J-103 | 10K 1/6W CARBON | |
| | R607 | QRD167J-472 | 4.7K 1/6W CARBON | |
| | R608 | QRD167J-472 | 4.7K 1/6W CARBON | |
| | R611 | QRD167J-562 | 5.6K 1/6W CARBON | |
| | R612 | QRD167J-562 | 5.6K 1/6W CARBON | |
| | R613 | QRD167J-123 | 12K 1/6W CARBON | |
| | R614 | QRD167J-123 | 12K 1/6W CARBON | |
| | R615 | QRD167J-683 | 68K 1/6W CARBON | |
| | R616 | QRD167J-683 | 68K 1/6W CARBON | |
| | R617 | QRD167J-102 | 1K 1/6W CARBON | |
| | R618 | QRD167J-102 | 1K 1/6W CARBON | |
| | R619 | QRD167J-104 | 100K 1/6W CARBON | |
| | R620 | QRD167J-104 | 100K 1/6W CARBON | |
| | R621 | QRD167J-102 | 1K 1/6W CARBON | |
| | R622 | QRD167J-102 | 1K 1/6W CARBON | |
| | R623 | QRD167J-562 | 5.6K 1/6W CARBON | |
| | R624 | QRD167J-562 | 5.6K 1/6W CARBON | |
| | R625 | QRD167J-222 | 2.2K 1/6W CARBON | |
| | R626 | QRD167J-222 | 2.2K 1/6W CARBON | |
| | R627 | QRD167J-562 | 5.6K 1/6W CARBON | |
| | R628 | QRD167J-562 | 5.6K 1/6W CARBON | |
| | R629 | QRD167J-102 | 1K 1/6W CARBON | |
| | R630 | QRD167J-102 | 1K 1/6W CARBON | |
| | R631 | QRD167J-103 | 10K 1/6W CARBON | |
| | R632 | QRD167J-103 | 10K 1/6W CARBON | |
| | R633 | QRD167J-104 | 100K 1/6W CARBON | |
| | R634 | QRD167J-104 | 100K 1/6W CARBON | |
| | R641 | QRD167J-123 | 12K 1/6W CARBON | |
| | R642 | QRD167J-123 | 12K 1/6W CARBON | |
| | R643 | QRD167J-113 | 11K 1/6W CARBON | |
| | R644 | QRD167J-113 | 11K 1/6W CARBON | |
| | R645 | QRD167J-271 | 270 1/6W CARBON | |
| | R646 | QRD167J-271 | 270 1/6W CARBON | |
| | R647 | QRD167J-431 | 430 1/6W CARBON | |
| | R649 | QRD167J-223 | 22K 1/6W CARBON | |
| | R650 | QRD167J-223 | 22K 1/6W CARBON | |
| | R660 | QRD167J-222 | 2.2K 1/6W CARBON | |
| | R661 | QRD167J-222 | 2.2K 1/6W CARBON | |
| | R662 | QRD167J-473 | 47K 1/6W CARBON | |
| | R663 | QRD167J-473 | 47K 1/6W CARBON | |
| | R664 | QRD167J-474 | 470K 1/6W CARBON | |
| | R665 | QRD167J-474 | 470K 1/6W CARBON | |
| | R666 | QRD167J-393 | 39K 1/6W CARBON | |
| | R667 | QRD167J-393 | 39K 1/6W CARBON | |
| | R668 | QRD167J-561 | 560 1/6W CARBON | |
| | R669 | QRD167J-561 | 560 1/6W CARBON | |
| | R670 | QRD167J-122 | 1.2K 1/6W CARBON | |
| | R671 | QRD167J-122 | 1.2K 1/6W CARBON | |
| | R674 | QRD167J-681 | 680 1/6W CARBON | |
| | R675 | QRD167J-681 | 680 1/6W CARBON | |
| | R685 | QRD167J-104 | 100K 1/6W CARBON | |
| | R686 | QRD167J-104 | 100K 1/6W CARBON | |
| | R687 | QRD167J-224 | 220K 1/6W CARBON | |
| | R688 | QRD167J-224 | 220K 1/6W CARBON | |
| | R695 | QRD167J-562 | 5.6K 1/6W CARBON | |
| | R696 | QRD167J-104 | 100K 1/6W CARBON | |
| | R697 | QRD167J-103 | 10K 1/6W CARBON | |
| | R698 | QRD167J-104 | 100K 1/6W CARBON | |
| | R699 | QRD167J-473 | 47K 1/6W CARBON | |
| | RA641 | QRB099J-474 | 470K 1/10W R.NETWORK | |
| | RA642 | QRB099J-474 | 470K 1/10W R.NETWORK | |

Δ : SAFETY PARTS

Others

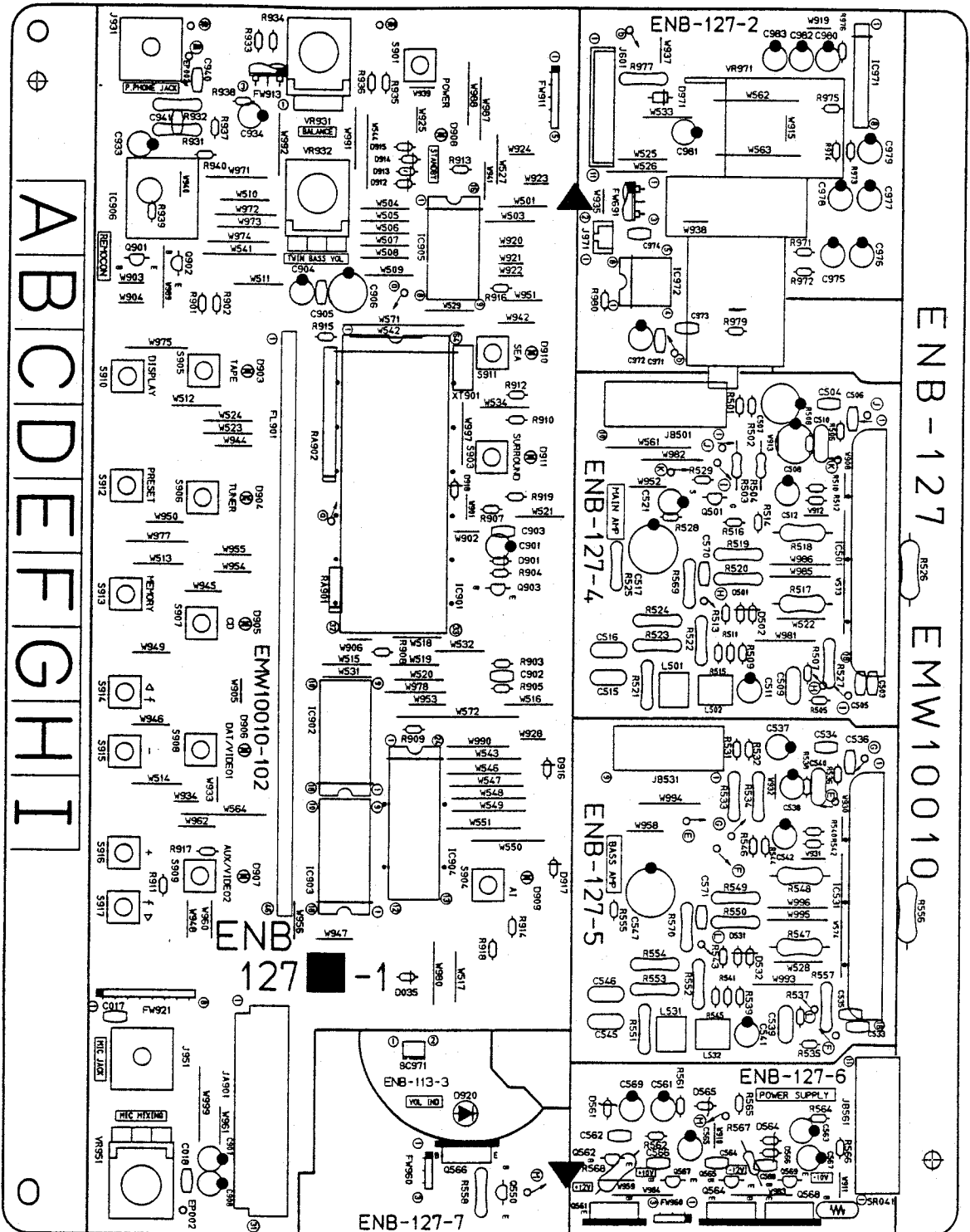
| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|-------|----------------|-------------------------|------|
| | | E3400-431 | SPACER | |
| | | E70306-005 | HEAT SINK | |
| | | SBSG3008Z | SCREW | |
| | | EMW10099-002 | CIRCUIT BOARD | A |
| | | E61380-010 | FUSE LABEL | A |
| | | E61380-032 | FUSE LABEL | A |
| | | EMW10099-002 | CIRCUIT BOARD | B |
| | | E61380-010 | FUSE LABEL | B |
| | | E61380-032 | FUSE LABEL | B |
| | | EMW10099-002 | CIRCUIT BOARD | C |
| | | EMW10099-002 | CIRCUIT BOARD | D |
| | | EMW10099-002BS | CIRCUIT BOARD | EBS |
| | | EMW10099-002 | CIRCUIT BOARD | F |
| | | EMW10099-002 | CIRCUIT BOARD | G |
| | J002 | VMC0107-006 | CONNECT TERMINAL (6PIN) | C |
| | J005 | EMV7122-103 | CONNECTOR (2PIN) | |
| | J015 | EMB90TV-803A | SPEAKER TERMINAL | |
| | J045 | EMV7122-103 | CONNECTOR (2PIN) | |
| | J085 | EMN00TV-215A | 2P PIN JACK | |
| | J601 | EMN00TV-405A | 4P PIN JACK | |
| | L600 | EQL2106-223 | INDUCTOR | |
| | L601 | EQL2106-223 | INDUCTOR | |
| | BC601 | EWS25B-A057 | SOCKET WIRE (11PIN) | |
| | EP001 | EWTO11-092 | TERMINAL WIRE | F |
| | EP002 | E70859-001 | EARTH PLATE | |
| | EP010 | E70225-001 | EARTH PLATE | |
| | FT001 | EMG7331-002 | FUSE CLIP | A |
| | FT001 | EMG7331-002 | FUSE CLIP | B |
| | FT001 | EMG7331-002 | FUSE CLIP | D |
| | FT001 | EMG7331-002 | FUSE CLIP | EBS |
| | FT001 | EMG7331-002 | FUSE CLIP | F |
| | FT001 | EMG7331-002 | FUSE CLIP | G |
| | FT002 | EMG7331-002U | FUSE CLIP | A |
| | FT002 | EMG7331-002U | FUSE CLIP | B |
| | FT002 | EMG7331-002U | FUSE CLIP | D |
| | FT002 | EMG7331-002U | FUSE CLIP | EBS |
| | FT002 | EMG7331-002U | FUSE CLIP | F |
| | FT002 | EMG7331-002U | FUSE CLIP | G |
| | FT003 | EMG7331-002 | FUSE CLIP | |
| | FT004 | EMG7331-002U | FUSE CLIP | |
| | FT005 | EMG7331-002 | FUSE CLIP | |
| | FT006 | EMG7331-002U | FUSE CLIP | |
| | FW001 | EWR3AB-16SST | FLAT WIRE (10PIN) | A |
| | FW001 | EWR3AB-16SST | FLAT WIRE (10PIN) | B |
| | FW001 | EWR3AB-16SST | FLAT WIRE (10PIN) | D |
| | FW001 | EWR3AB-16SST | FLAT WIRE (10PIN) | EBS |
| | FW001 | EWR3AB-16SST | FLAT WIRE (10PIN) | F |
| | FW001 | EWR3AB-16SST | FLAT WIRE (10PIN) | G |
| | FW002 | EWR33B-20SST | FLAT WIRE (3PIN) | C |
| | FW003 | EWR33B-16SST | FLAT WIRE (3PIN) | |
| | FW011 | EWR37B-16SST | FLAT WIRE (7PIN) | |
| | JA051 | EMV5125-008 | PLUG ASSY (8PIN) | |
| | JA211 | EMV7127-011 | CONNECTOR (11PIN) | |
| | JA311 | EMV7127-015 | CONNECTOR (16PIN) | |
| | JA411 | EMV7127-013 | CONNECTOR (13PIN) | |
| | JA501 | EMV5125-010 | PLUG ASSY (10PIN) | |
| | JA531 | EMV5125-009 | PLUG ASSY (9PIN) | |
| | JA561 | EMV5125-011 | PLUG ASSY (11PIN) | |
| | JB051 | EMV7125-008R | CONNECTOR (8PIN) | |
| | JB901 | EMV7123-031 | CONNECTOR (31PIN) | |
| | JT691 | EMV7122-103 | CONNECTOR (3PIN) | |
| | JT911 | EMV7122-005 | CONNECTOR (5PIN) | |
| | JT913 | EMV7122-103 | CONNECTOR (3PIN) | |
| | JT921 | EMV7122-004 | CONNECTOR (4PIN) | |
| | JT922 | EMV7122-004 | CONNECTOR (4PIN) | |
| | RY001 | ESK1012-211M | RELAY | |
| | RY021 | ESK8012-211M | RELAY | |
| | RY022 | ESK8012-211M | RELAY | |
| | TB001 | E65508-002 | TAB | A |
| | TB001 | E65508-002 | TAB | B |
| | TB001 | E65508-002 | TAB | D |
| | TB001 | E65508-002 | TAB | EBS |
| | TB001 | E65508-002 | TAB | F |
| | TB001 | E65508-002 | TAB | G |
| | TB002 | E65508-002 | TAB | A |
| | TB002 | E65508-002 | TAB | B |
| | TB002 | E65508-002 | TAB | D |
| | TB002 | E65508-002 | TAB | EBS |
| | TB002 | E65508-002 | TAB | F |
| | TB002 | E65508-002 | TAB | G |

Δ : SAFETY PARTS

For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
 8 Cherry Tree Rd, Chinnor
 Oxon OX9 4QY
 Tel:- 01844-351694 Fax:- 01844-352554
 Email:- enquiries@mauritron.co.uk

■ENB-127 □ System Control & FL Display & Power Amplifier PC Board Ass'y

Note: ENB-127 □ varies according to the areas employed. See note (1) when placing an order.



Note (1)

| PC Board Ass'y | Designated Areas |
|------------------|---|
| ENB-127 A | the U.S.A., Canada |
| ENB-127 B | Australia, the U.K. Continental Europe Universal Type |
| ENB-127 C | Germany, Italy |

Transistors

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|--------------|--------------------|------|
| | Q501 | 2SK301(P,Q) | F.E.T MATSUSHITA | |
| | Q550 | 2SC1685(R,S) | SILICON MATSUSHITA | A |
| | Q561 | 2SD2061(E,F) | SILICON ROHM | |
| | Q562 | 2SC1685(R,S) | SILICON MATSUSHITA | A |
| | Q563 | 2SC1685(R,S) | SILICON MATSUSHITA | |
| | Q564 | 2SB1187(E,F) | SILICON ROHM | |
| | Q565 | 2SA564A(R,S) | SILICON MATSUSHITA | |
| | Q566 | 2SD2061(E,F) | SILICON ROHM | |
| | Q567 | 2SC1685(R,S) | SILICON MATSUSHITA | |
| | Q568 | 2SB1187(E,F) | SILICON ROHM | |
| | Q569 | 2SA564A(R,S) | SILICON MATSUSHITA | |
| | Q901 | DTC113ZS | SILICON ROHM | |
| | Q902 | DTA144ES | SILICON ROHM | |
| | Q903 | DTC114YS | SILICON ROHM | |

Δ : :SIA:FEITY: :PARTS:

I.C.s

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|-------|-------------|-----------------|------|
| | IC501 | STK414MK5 | I.C. SANYO | |
| | IC531 | STK414MK5 | I.C. SANYO | |
| | IC901 | MN171202JNY | I.C. MATSUSHITA | |
| | IC902 | AN6873N | I.C. MATSUSHITA | |
| | IC903 | AN6873N | I.C. MATSUSHITA | |
| | IC904 | TC74HC154AP | I.C. TOSHIBA | |
| | IC905 | TC74HC595AP | I.C. TOSHIBA | |
| | IC906 | GP1U501X | I.C. SHARP | |
| | IC971 | BA15218N | I.C. ROHM | |
| | IC972 | LB1639-CV | I.C. SANYO | |

Δ : :SIA:FEITY: :PARTS:

Diodes

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|-------------|--------------|------|
| | D035 | 1SS133 | SILICON ROHM | |
| | D501 | 1SS133 | SILICON ROHM | |
| | D502 | 1SS133 | SILICON ROHM | |
| | D531 | 1SS133 | SILICON ROHM | |
| | D532 | 1SS133 | SILICON ROHM | |
| | D561 | RD13JSB3 | ZENER NEC | |
| | D564 | RD13JSB3 | ZENER NEC | |
| | D565 | MTZ11JC | ZENER ROHM | |
| | D566 | MTZ11JC | ZENER ROHM | |
| | D900 | MTZ5.6JC | ZENER ROHM | |
| | D901 | 1SS133 | SILICON ROHM | |
| | D903 | SLH-34VC3F | L.E.D. ROHM | |
| | D904 | SLH-34VC3F | L.E.D. ROHM | |
| | D905 | SLH-34VC3F | L.E.D. ROHM | |
| | D906 | SLH-34VC3F | L.E.D. ROHM | |
| | D907 | SLH-34VC3F | L.E.D. ROHM | |
| | D908 | SLH-34VC3F | L.E.D. ROHM | |
| | D909 | SLH-34VC3F | L.E.D. ROHM | |
| | D910 | SLH-34DC3F | L.E.D. ROHM | |
| | D911 | SLH-34DC3F | L.E.D. ROHM | |
| | D912 | 1SS133 | SILICON ROHM | |
| | D913 | 1SS133 | SILICON ROHM | |
| | D914 | 1SS133 | SILICON ROHM | |
| | D915 | 1SS133 | SILICON ROHM | |
| | D916 | 1SS133 | SILICON ROHM | |
| | D917 | 1SS133 | SILICON ROHM | |
| | D918 | 1SS133 | SILICON ROHM | |
| | D920 | LN282RPX | L.E.D. | |
| | D971 | 1SR139-200 | SILICON ROHM | |

Δ : :SIA:FEITY: :PARTS:

Capacitors

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|--------------|---------------------|------|
| | C017 | QCC21EM-473 | 0.047MF 25V CERAMIC | |
| | C503 | QCBB1HK-101 | 100PF 50V CERAMIC | |
| | C504 | QCBB1HK-101 | 100PF 50V CERAMIC | |
| | C505 | QCBB1HK-101 | 100PF 50V CERAMIC | |
| | C506 | QCBB1HK-101 | 100PF 50V CERAMIC | |
| | C507 | EEZ2505-107 | 100MF ELECTRO | |
| | C508 | EEZ2505-107 | 100MF ELECTRO | |
| | C509 | QCS21HJ-5R0 | 5PF 50V CERAMIC | |
| | C510 | QCS21HJ-5R0 | 5PF 50V CERAMIC | |
| | C511 | QETB1HM-226 | 22MF 50V ELECTRO | |
| | C512 | QETB1HM-226 | 22MF 50V ELECTRO | |
| | C515 | QFLB1HK-473 | 0.047MF 50V MYLAR | |
| | C516 | QFLB1HK-473 | 0.047MF 50V MYLAR | |
| | C517 | QETB2AM-476 | 47MF 100V ELECTRO | |
| | C521 | QEK51HM-224G | 0.22MF 50V ELECTRO | |
| | C533 | QCBB1HK-101 | 100PF 50V CERAMIC | |
| | C534 | QCBB1HK-101 | 100PF 50V CERAMIC | |
| | C535 | QCXB1CM-392 | 3900PF 16V CERAMIC | |
| | C536 | QCXB1CM-392 | 3900PF 16V CERAMIC | |
| | C537 | QETB1HM-225 | 2.2MF 50V ELECTRO | |
| | C538 | QETB1HM-225 | 2.2MF 50V ELECTRO | |
| | C539 | QFLB1HK-333 | 0.033MF 50V MYLAR | |
| | C540 | QFLB1HK-333 | 0.033MF 50V MYLAR | |
| | C541 | QETB1HM-226 | 22MF 50V ELECTRO | |
| | C542 | QETB1HM-226 | 22MF 50V ELECTRO | |
| | C545 | QFLB1HK-473 | 0.047MF 50V MYLAR | |
| | C546 | QFLB1HK-473 | 0.047MF 50V MYLAR | |
| | C547 | QETB2AM-476 | 47MF 100V ELECTRO | |
| | C561 | QETB1EM-226 | 22MF 25V ELECTRO | |
| | C562 | QCGB1HK-102 | 1000PF 50V CERAMIC | |
| | C563 | QETB1CM-226 | 22MF 16V ELECTRO | |
| | C564 | QCGB1HK-102 | 1000PF 50V CERAMIC | |
| | C565 | QETB1CM-226 | 22MF 16V ELECTRO | |
| | C566 | QCGB1HK-102 | 1000PF 50V CERAMIC | |
| | C567 | QETB1CM-226 | 22MF 16V ELECTRO | |
| | C568 | QCGB1HK-102 | 1000PF 50V CERAMIC | |
| | C569 | QETB1CM-476 | 47MF 16V ELECTRO | |
| | C570 | QCBB1HK-681 | 680PF 50V CERAMIC | |
| | C571 | QCBB1HK-681 | 680PF 50V CERAMIC | |
| | C901 | QETB1HM-225 | 2.2MF 50V ELECTRO | |
| | C902 | QCVB1CM-103 | 0.01MF 16V CERAMIC | |
| | C903 | QCVB1CM-103 | 0.01MF 16V CERAMIC | |
| | C904 | QETB1AM-107 | 100MF 10V ELECTRO | |
| | C905 | QCHB1EZ-223 | 0.022MF 25V CERAMIC | |
| | C906 | QETB1AM-477 | 470MF 10V ELECTRO | |
| | C907 | QEK51HM-225G | 2.2MF 50V ELECTRO | |
| | C908 | QEK51HM-225G | 2.2MF 50V ELECTRO | |
| | C933 | QER51HM-105G | 1MF 50V ELECTRO | |
| | C934 | QER51HM-105G | 1MF 50V ELECTRO | |
| | C940 | QCBB1HK-221 | 220PF 50V CERAMIC | |
| | C941 | QCBB1HK-221 | 220PF 50V CERAMIC | C |
| | C971 | QCVB1CM-103 | 0.01MF 16V CERAMIC | C |
| | C972 | QETB1CM-226 | 22MF 16V ELECTRO | |
| | C973 | QCHB1EZ-223 | 0.022MF 25V CERAMIC | |
| | C974 | QCVB1CM-103 | 0.01MF 16V CERAMIC | |
| | C975 | QETB1AM-476 | 47MF 10V ELECTRO | |
| | C976 | QETB1AM-476 | 47MF 10V ELECTRO | |
| | C977 | QETB1HM-105 | 1MF 50V ELECTRO | |
| | C978 | QETB1HM-105 | 1MF 50V ELECTRO | |
| | C979 | QETB1HM-225 | 2.2MF 50V ELECTRO | |
| | C980 | QETB1HM-226 | 2.2MF 50V ELECTRO | |
| | C981 | QETB1AM-476 | 47MF 10V ELECTRO | |
| | C982 | QETB1EM-106 | 10MF 25V ELECTRO | |
| | C983 | QETB1EM-106 | 10MF 25V ELECTRO | |

Δ : :SIA:FEITY: :PARTS:

Resistors

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|------|---------------|-----------------------|------|
| | R501 | QRD167J-104 | 100K 1/6W CARBON | |
| | R502 | QRD167J-104 | 100K 1/6W CARBON | |
| | R503 | ERD141J-561S | 560 1/4W CARBON | |
| | R504 | ERD141J-561S | 560 1/4W CARBON | |
| | R505 | QRD167J-471 | 470 1/6W CARBON | |
| | R506 | QRD167J-471 | 470 1/6W CARBON | |
| | R507 | QRD167J-104 | 100K 1/6W CARBON | |
| | R508 | QRD167J-104 | 100K 1/6W CARBON | |
| | R509 | QRD167J-562 | 5.6K 1/6W CARBON | |
| | R510 | QRD167J-562 | 5.6K 1/6W CARBON | |
| | R511 | QRD167J-562 | 5.6K 1/6W CARBON | |
| | R512 | QRD167J-562 | 5.6K 1/6W CARBON | |
| | R513 | QRD167J-562 | 5.6K 1/6W CARBON | |
| | R514 | QRD167J-562 | 5.6K 1/6W CARBON | |
| | R515 | QRD167J-562 | 5.6K 1/6W CARBON | |
| | R516 | QRD167J-562 | 5.6K 1/6W CARBON | |
| Δ | R517 | QRX012J-R22AM | 0.22 1W M.FILM | |
| Δ | R518 | QRX012J-R22AM | 0.22 1W M.FILM | |
| Δ | R519 | QRZ0077-101 | 100 1/4W FUSIBLE | |
| Δ | R520 | QRZ0077-100 | 10 1/4W FUSIBLE | |
| Δ | R521 | QRD14CJ-100S | 10 1/4W UNF. CARBON | |
| Δ | R522 | QRD14CJ-100S | 10 1/4W UNF. CARBON | |
| Δ | R523 | QRD14CJ-100S | 10 1/4W UNF. CARBON | |
| Δ | R524 | QRD14CJ-100S | 10 1/4W UNF. CARBON | |
| Δ | R525 | QRD14CJ-222S | 2.2K 1/4W UNF. CARBON | |

Δ : :SIA:FEITY: :PARTS:

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Resistors

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|-------|---------------|---------------------|------|
| Δ | R526 | QRG022J-102AM | 1K 2W O.M.FILM | |
| Δ | R527 | QRD14CJ-100S | 10 1/4W UNF.CARBON | |
| | R528 | QRD167J-112 | 1.1K 1/6W CARBON | |
| | R529 | QRD167J-105 | 1M 1/6W CARBON | |
| | R531 | QRD167J-104 | 100K 1/6W CARBON | |
| | R532 | QRD167J-104 | 100K 1/6W CARBON | |
| Δ | R533 | QRD14CJ-681S | 680 1/4W UNF.CARBON | |
| Δ | R534 | QRD14CJ-681S | 680 1/4W UNF.CARBON | |
| | R535 | QRD167J-473 | 47K 1/6W CARBON | |
| | R536 | QRD167J-473 | 47K 1/6W CARBON | |
| | R537 | QRD167J-473 | 47K 1/6W CARBON | |
| | R538 | QRD167J-473 | 47K 1/6W CARBON | |
| | R539 | QRD167J-562 | 5.6K 1/6W CARBON | |
| | R540 | QRD167J-562 | 5.6K 1/6W CARBON | |
| | R541 | QRD167J-562 | 5.6K 1/6W CARBON | |
| | R542 | QRD167J-562 | 5.6K 1/6W CARBON | |
| | R543 | QRD167J-562 | 5.6K 1/6W CARBON | |
| | R544 | QRD167J-562 | 5.6K 1/6W CARBON | |
| | R545 | QRD167J-562 | 5.6K 1/6W CARBON | |
| | R546 | QRD167J-562 | 5.6K 1/6W CARBON | |
| Δ | R547 | QRX012J-R22AM | 0.22 1W M.FILM | |
| Δ | R548 | QRX012J-R22AM | 0.22 1W M.FILM | |
| Δ | R549 | QRZ0077-101 | 100 1/4W FUSIBLE | |
| Δ | R550 | QRZ0077-100 | 10 1/4W FUSIBLE | |
| Δ | R551 | QRD14CJ-100S | 10 1/4W UNF.CARBON | |
| Δ | R552 | QRD14CJ-100S | 10 1/4W UNF.CARBON | |
| Δ | R553 | QRD14CJ-100S | 10 1/4W UNF.CARBON | |
| Δ | R554 | QRD14CJ-100S | 10 1/4W UNF.CARBON | |
| Δ | R555 | QRD167J-103 | 10K 1/6W CARBON | |
| Δ | R556 | QRG022J-102AM | 1K 2W O.M.FILM | |
| Δ | R557 | QRD14CJ-100S | 10 1/4W UNF.CARBON | |
| Δ | R558 | QRX012J-R47A | 0.47 1W M.FILM | A |
| | R561 | QRD167J-152 | 1.5K 1/6W CARBON | |
| | R562 | QRD167J-471 | 470 1/6W CARBON | |
| | R564 | QRD167J-222 | 2.2K 1/6W CARBON | |
| | R565 | QRD167J-332 | 3.3K 1/6W CARBON | |
| | R566 | QRD167J-332 | 3.3K 1/6W CARBON | |
| Δ | R567 | QRZ0077-4R7 | 4.7 1/4W FUSIBLE | |
| Δ | R568 | QRX012J-R68AM | 0.68 1W M.FILM | |
| Δ | R569 | QRD14CJ-101S | 100 1/4W UNF.CARBON | |
| Δ | R570 | QRD14CJ-101S | 100 1/4W UNF.CARBON | |
| | R901 | QRD167J-472 | 4.7K 1/6W CARBON | |
| | R902 | QRD167J-472 | 4.7K 1/6W CARBON | |
| | R903 | QRD167J-472 | 4.7K 1/6W CARBON | |
| | R904 | QRD167J-104 | 100K 1/6W CARBON | |
| | R905 | QRD167J-103 | 10K 1/6W CARBON | |
| | R907 | QRD167J-473 | 47K 1/6W CARBON | |
| | R908 | QRD167J-223 | 22K 1/6W CARBON | |
| | R909 | QRD167J-472 | 4.7K 1/6W CARBON | |
| | R910 | QRD167J-331 | 330 1/6W CARBON | |
| | R911 | QRD167J-331 | 330 1/6W CARBON | |
| | R912 | QRD167J-331 | 330 1/6W CARBON | |
| | R913 | QRD167J-331 | 330 1/6W CARBON | |
| | R914 | QRD167J-331 | 330 1/6W CARBON | |
| | R915 | QRD167J-101 | 100 1/6W CARBON | |
| | R916 | QRD167J-103 | 10K 1/6W CARBON | |
| | R917 | QRD167J-104 | 100K 1/6W CARBON | |
| | R918 | QRD167J-104 | 100K 1/6W CARBON | |
| | R919 | QRD167J-104 | 100K 1/6W CARBON | |
| | R931 | QRD12CJ-331S | 330 1/2W R.NETWORK | |
| | R932 | QRD12CJ-331S | 330 1/2W R.NETWORK | |
| | R933 | QRD167J-123 | 12K 1/6W CARBON | |
| | R934 | QRD167J-123 | 12K 1/6W CARBON | |
| | R935 | QRD167J-102 | 1K 1/6W CARBON | |
| | R936 | QRD167J-102 | 1K 1/6W CARBON | |
| | R937 | QRD167J-222 | 2.2K 1/6W CARBON | |
| | R938 | QRD167J-222 | 2.2K 1/6W CARBON | |
| | R939 | QRD167J-102 | 1K 1/6W CARBON | |
| | R940 | QRD167J-102 | 1K 1/6W CARBON | |
| | R971 | QRD167J-272 | 2.7K 1/6W CARBON | |
| | R972 | QRD167J-272 | 2.7K 1/6W CARBON | |
| | R973 | QRD167J-393 | 39K 1/6W CARBON | |
| | R974 | QRD167J-393 | 39K 1/6W CARBON | |
| | R975 | QRD167J-560 | 56 1/6W CARBON | |
| | R976 | QRD167J-560 | 56 1/6W CARBON | |
| Δ | R977 | QRD14CJ-4R7S | 4.7 1/4W UNF.CARBON | |
| | R979 | QRD167J-102 | 1K 1/6W CARBON | |
| | R980 | QRD167J-102 | 1K 1/6W CARBON | |
| | RA901 | QRB049J-473 | 47K 1/10W R.NETWORK | |
| | VR931 | QVCB84W-E15B | 100K VARIABLE | |
| | VR932 | QVCB84A-E53C | 5K VARIABLE | |
| | VR951 | QVCB84W-E54B | 50K VARIABLE | |
| | VR971 | QVOC91A-E15B | 100K VARIABLE | |

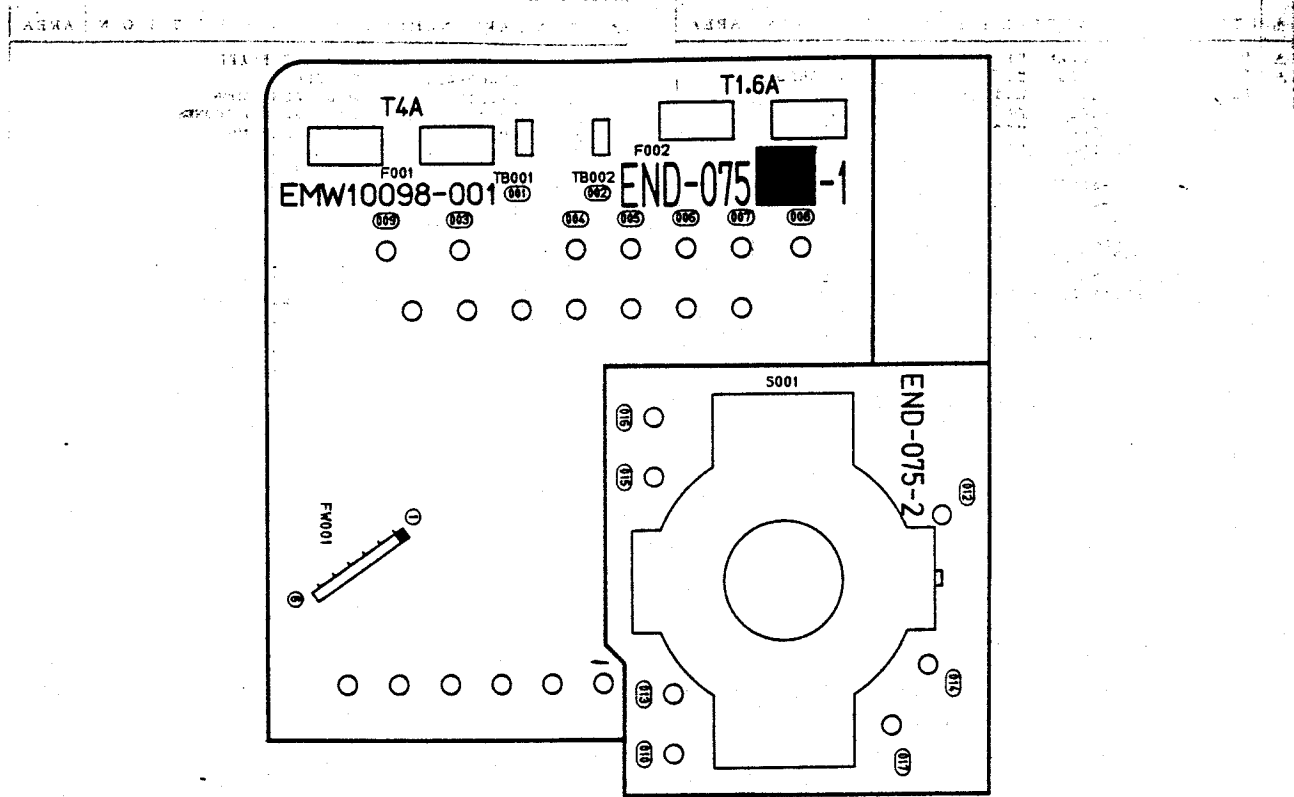
Δ : SIA:METRY : PARTS.

Others

| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|-------|---------------|---------------------------|------|
| | | EMW10010-102 | CIRCUIT BOARD | |
| | | E3400-431 | SPACER | |
| | J601 | EMV5109-011A | PLUG ASSY (11PIN) | |
| | J931 | QMS3R10-E40S | MINI JACK (H.PHONE) | |
| | J951 | QMS3R10-E40S | MINI JACK (MIC) | |
| | J971 | EMV5103-002A | PLUG ASSY (2PIN) | |
| | L501 | EQL0001-R45 | INDUCTOR | |
| | L502 | EQL0001-R45 | INDUCTOR | |
| | L531 | EQL0001-R45 | INDUCTOR | |
| | L532 | EQL0001-R45 | INDUCTOR | |
| | S901 | ESP0001-018 | TACT SWITCH (POWER) | |
| | S903 | ESP0001-018 | TACT SWITCH (SUBROUND) | |
| | S904 | ESP0001-018 | TACT SWITCH (AI) | |
| | S905 | ESP0001-018 | TACT SWITCH (TAPE) | |
| | S906 | ESP0001-018 | TACT SWITCH (TUNER) | |
| | S907 | ESP0001-018 | TACT SWITCH (CD) | |
| | S908 | ESP0001-018 | TACT SWITCH (DAT/VIDEO 1) | |
| | S909 | ESP0001-018 | TACT SWITCH (AUX/VIDEO 2) | |
| | S910 | ESP0001-018 | TACT SWITCH (DISPLAY) | |
| | S911 | ESP0001-018 | TACT SWITCH (SEA) | |
| | S912 | ESP0001-018 | TACT SWITCH (PRESET) | |
| | S913 | ESP0001-018 | TACT SWITCH (MEMORY) | |
| | S914 | ESP0001-018 | TACT SWITCH (CI) | |
| | S915 | ESP0001-018 | TACT SWITCH (-) | |
| | S916 | ESP0001-018 | TACT SWITCH (+) | |
| | S917 | ESP0001-018 | TACT SWITCH (ID) | |
| | BC971 | EMV5109-002A | PLUG ASSY (2PIN) | |
| | EP002 | EWT011-092 | TERMINAL WIRE | C |
| | EP003 | EWT011-132 | TERMINAL WIRE | |
| | FL901 | ELU0001-106 | FL TUBE | |
| | FS901 | E3400-420 | FELT SPACER | |
| | FW691 | EWR23C-20LN | FLAT WIRE (3PIN) | |
| | FW911 | EWR35B-25LST | FLAT WIRE (5PIN) | |
| | FW913 | EWR23C-30LN | FLAT WIRE (3PIN) | |
| | FW921 | EWR38B-16LST | FLAT WIRE (8PIN) | |
| | FW960 | EMV7122-103 | CONNECTOR (3PIN) | A |
| | JA901 | EMV7123-031R | CONNECTOR (31PIN) | |
| | JB501 | EMV7125-010R | CONNECTOR (10PIN) | |
| | JB531 | EMV7125-009R | CONNECTOR (9PIN) | |
| | JB561 | EMV7125-011R | CONNECTOR (11PIN) | |
| | SR041 | ERT-D2WHK202S | NEGATIVE THERMISTOR | |
| | TB901 | E33754-001 | TIE BAND | |
| | XT901 | ECX0060-000EM | RESONATOR | |

Δ : SIA:METRY : PARTS.

END-075 Power Primary PC Board Ass'y



Others

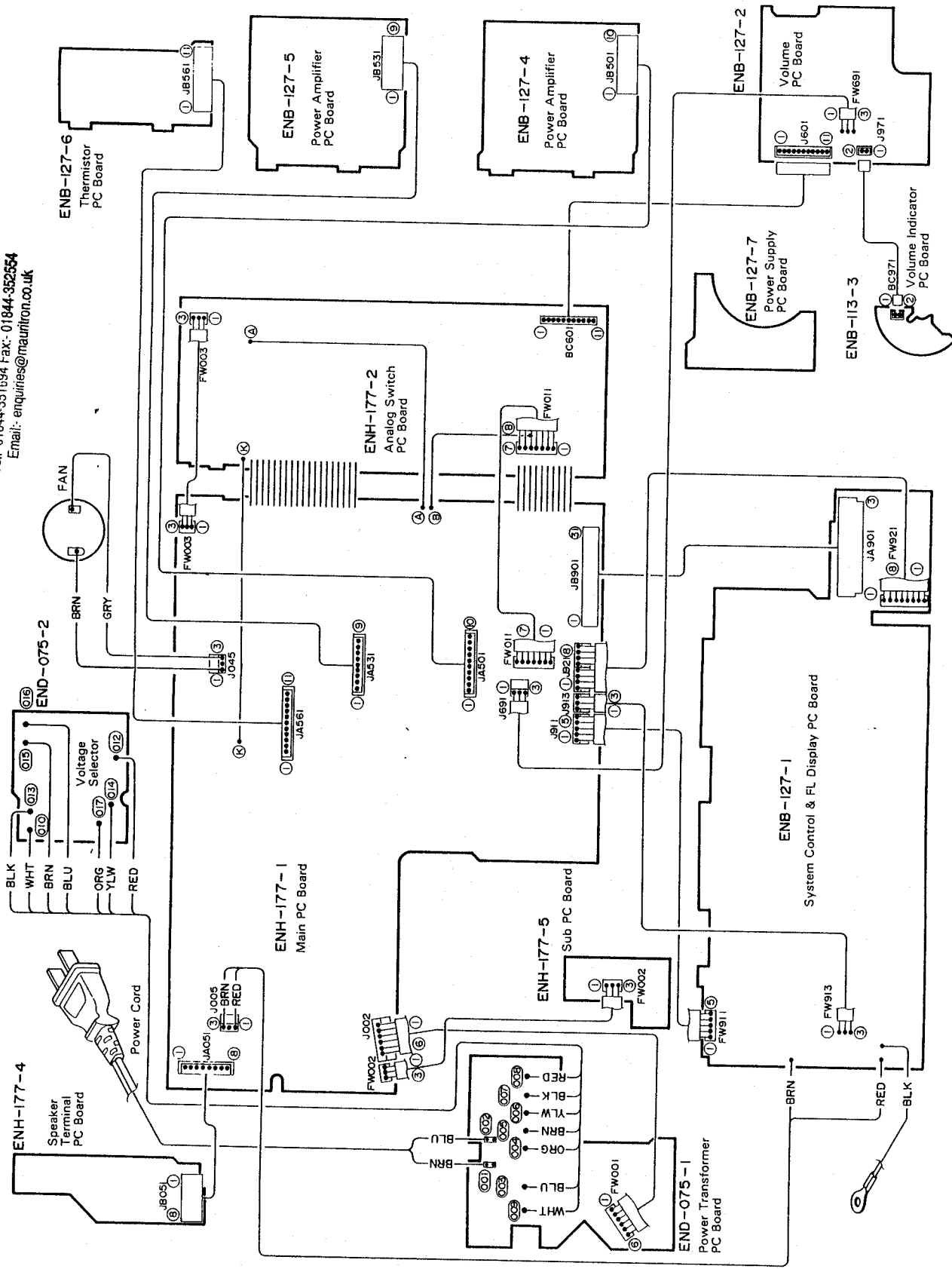
| Δ | ITEM | PART NUMBER | DESCRIPTION | AREA |
|---|-------|--------------|------------------|------|
| | | EMG7331-001 | FUSE CLIP | |
| | | EMW10098-001 | CIRCUIT BOARD | |
| Δ | S001 | QSR0085-018 | VOLTAGE SELECTOR | |
| | FH001 | EW368-16KST | FLAT WIRE (6PIN) | |
| | TB001 | E65508-002 | TAB | |
| | TB002 | E65503-002 | TAB | |

Δ SAFETY PARTS

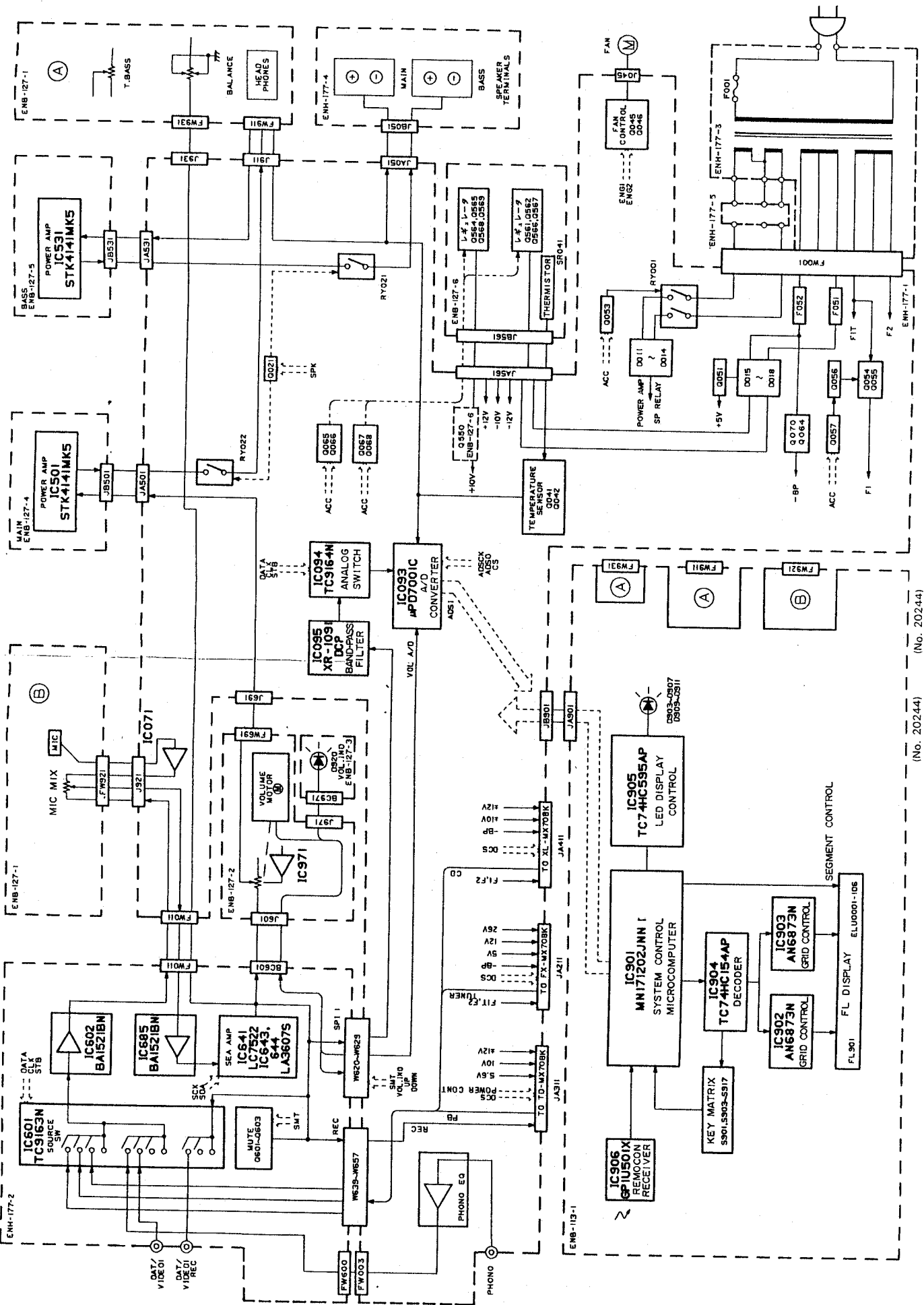
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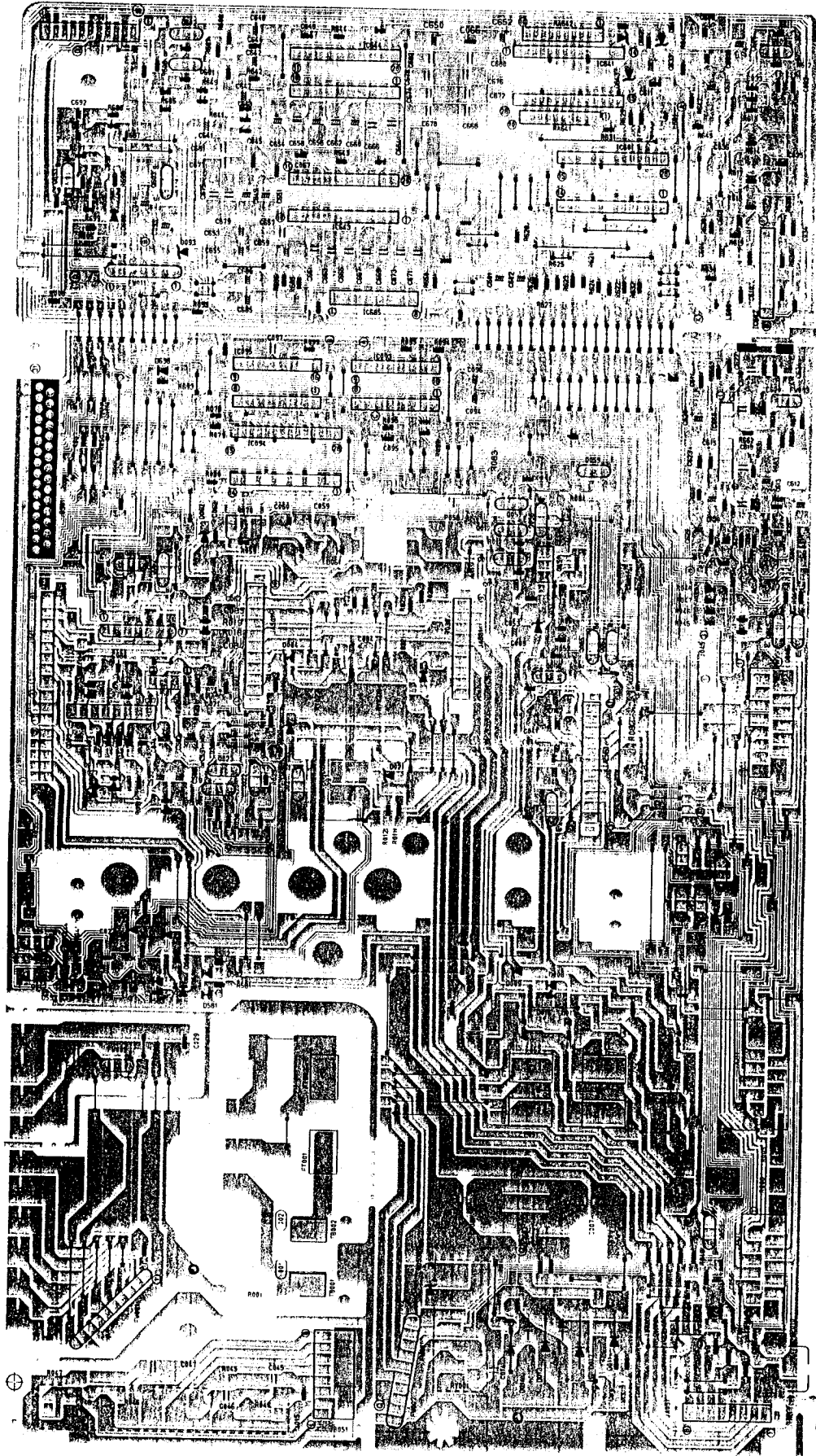
Connection Diagram



Block Diagram

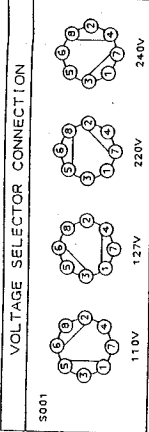
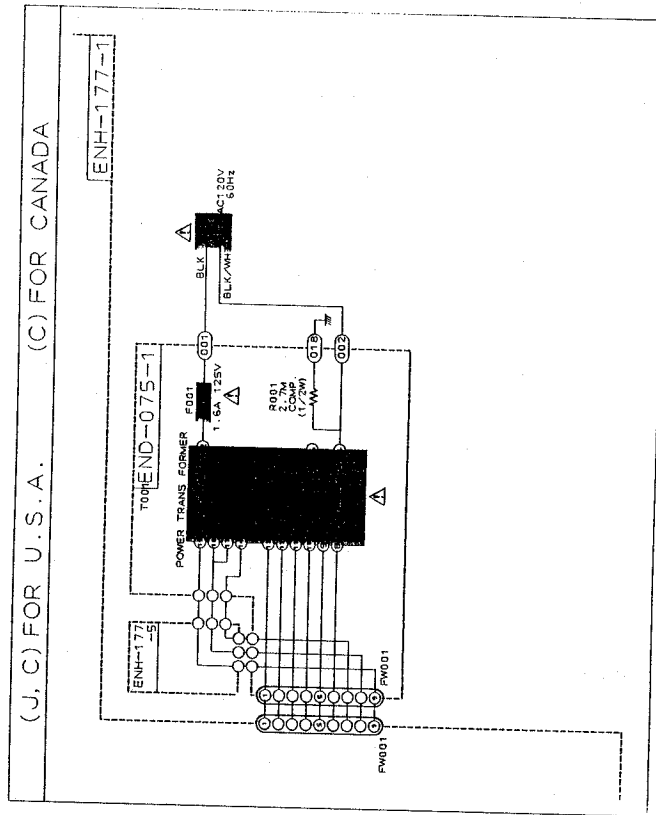
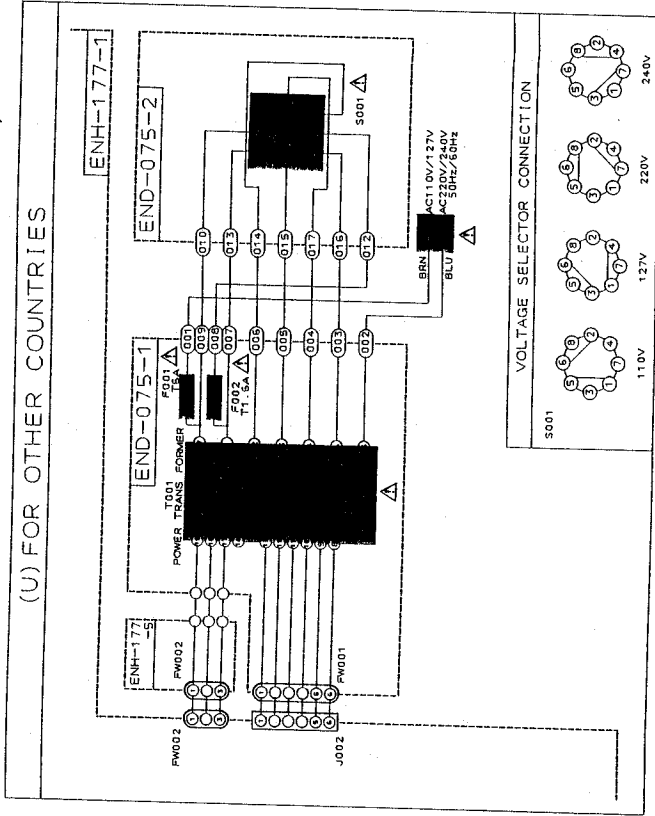
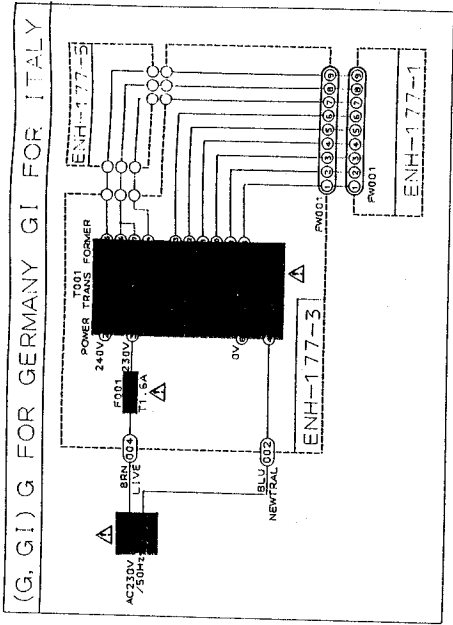
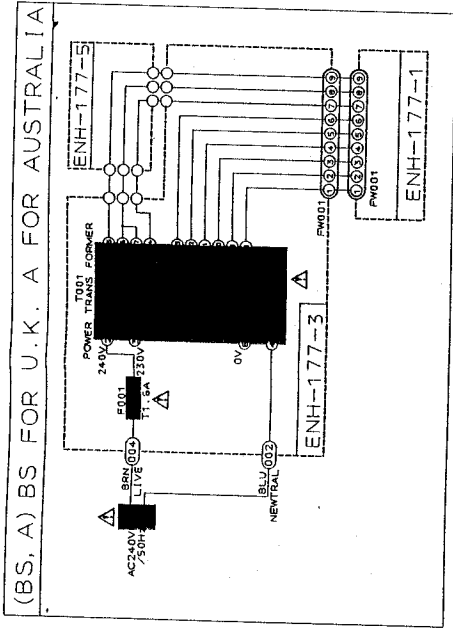
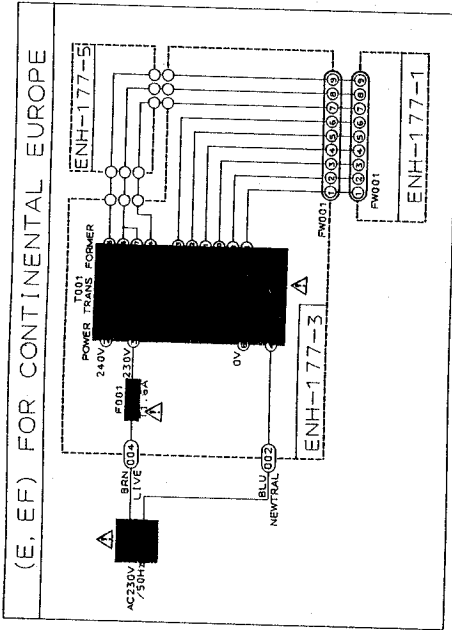


■ Analog Switch & Power Supply PC Board (ENH-177)



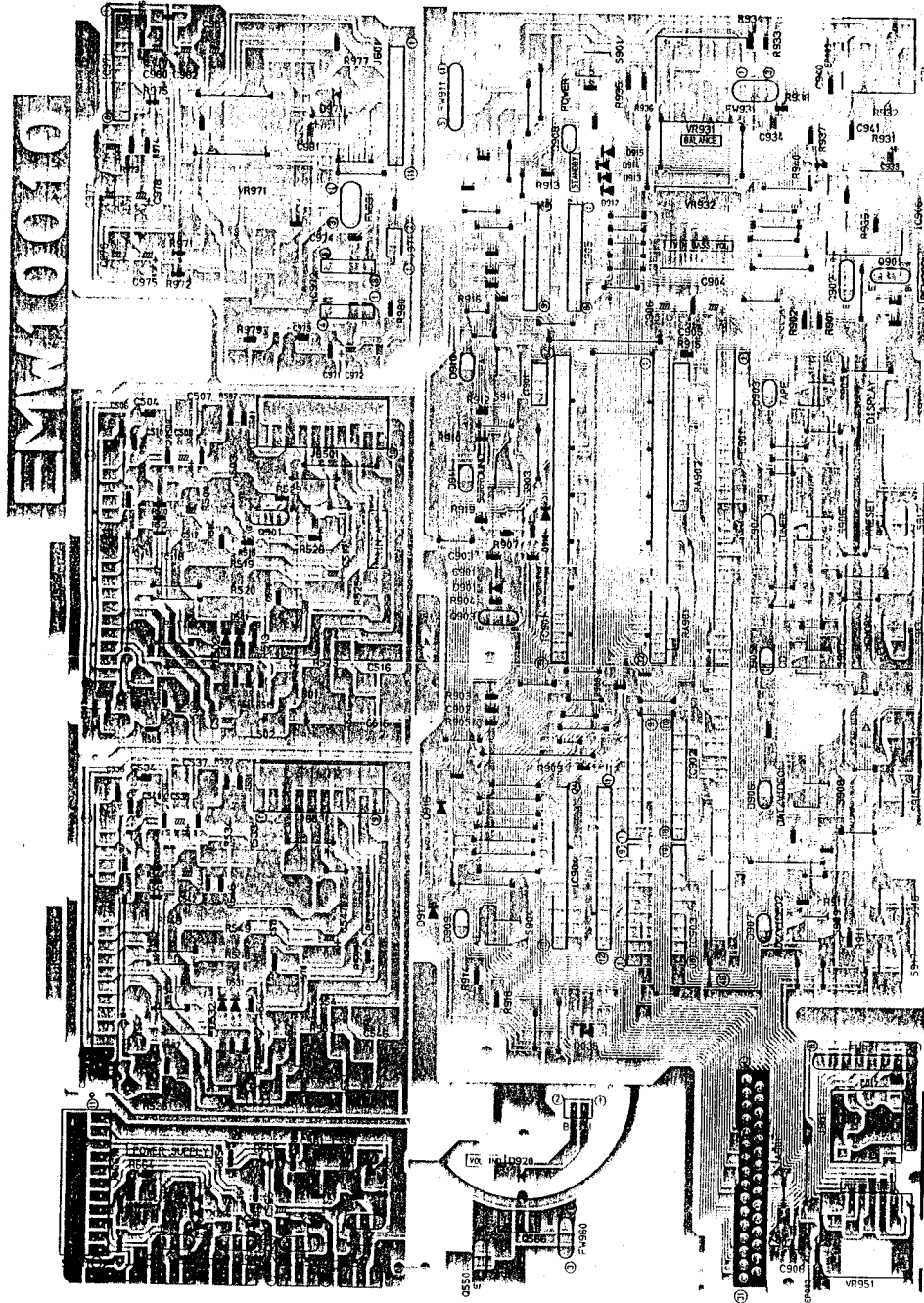
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■ Power Primary Section



Printed Circuit Board

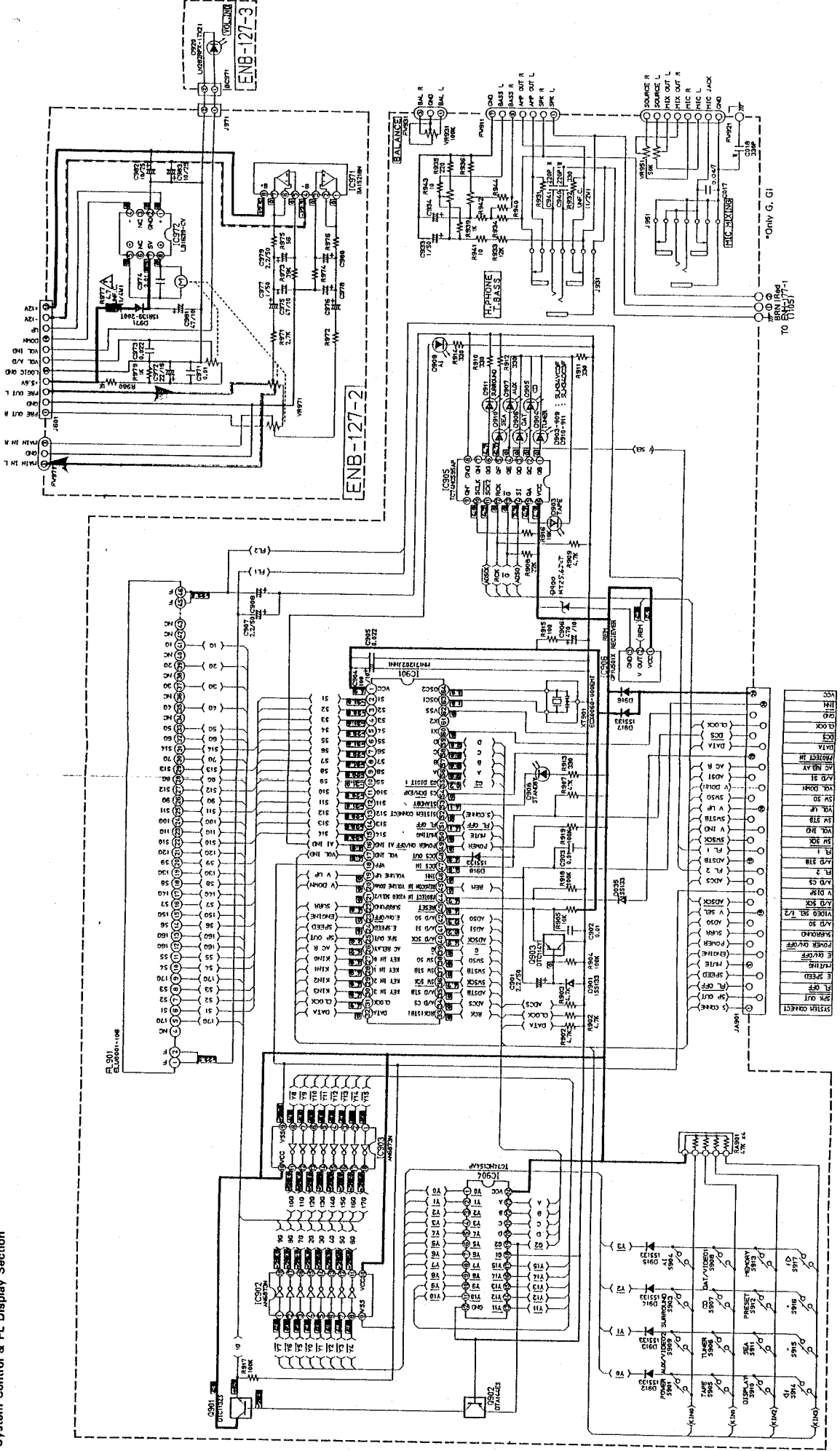
- System Control & FL Display & Power Amplifier PC Board Ass'y (ENB-127)



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AX-MX70BK AX-MX70BK

System Control & FL Display Section



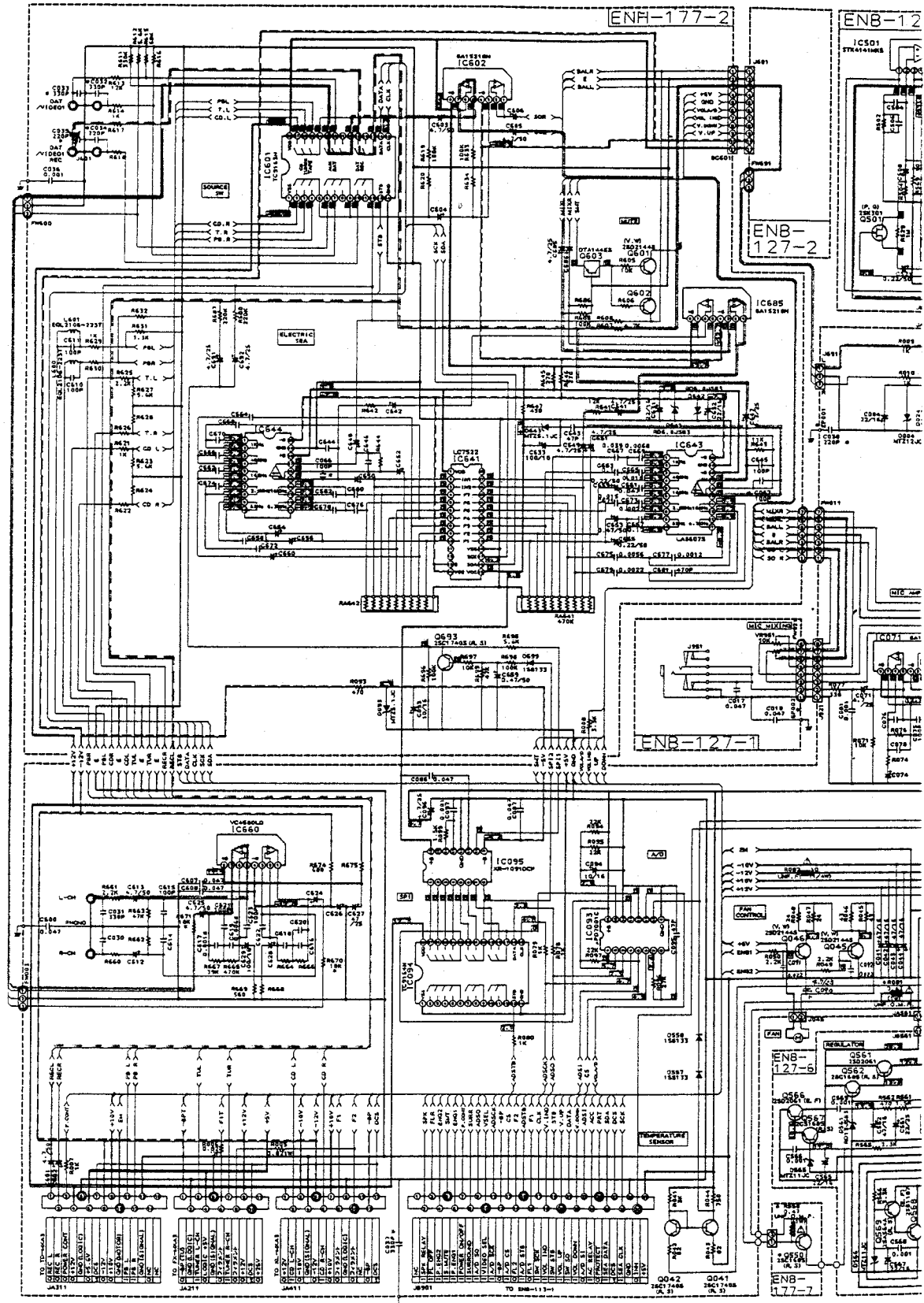
Notes:

1. shows DC voltage applied to the chassis in the stop mode. (Digital section: PLAY mode)
2. indicates positive B power supply.
3. indicates negative B power supply.
4. indicate signal path.
5. When replacing the parts in the darkened are () and those marked with , be sure to use the designated parts to ensure safety.
6. This is the standard circuit diagram.

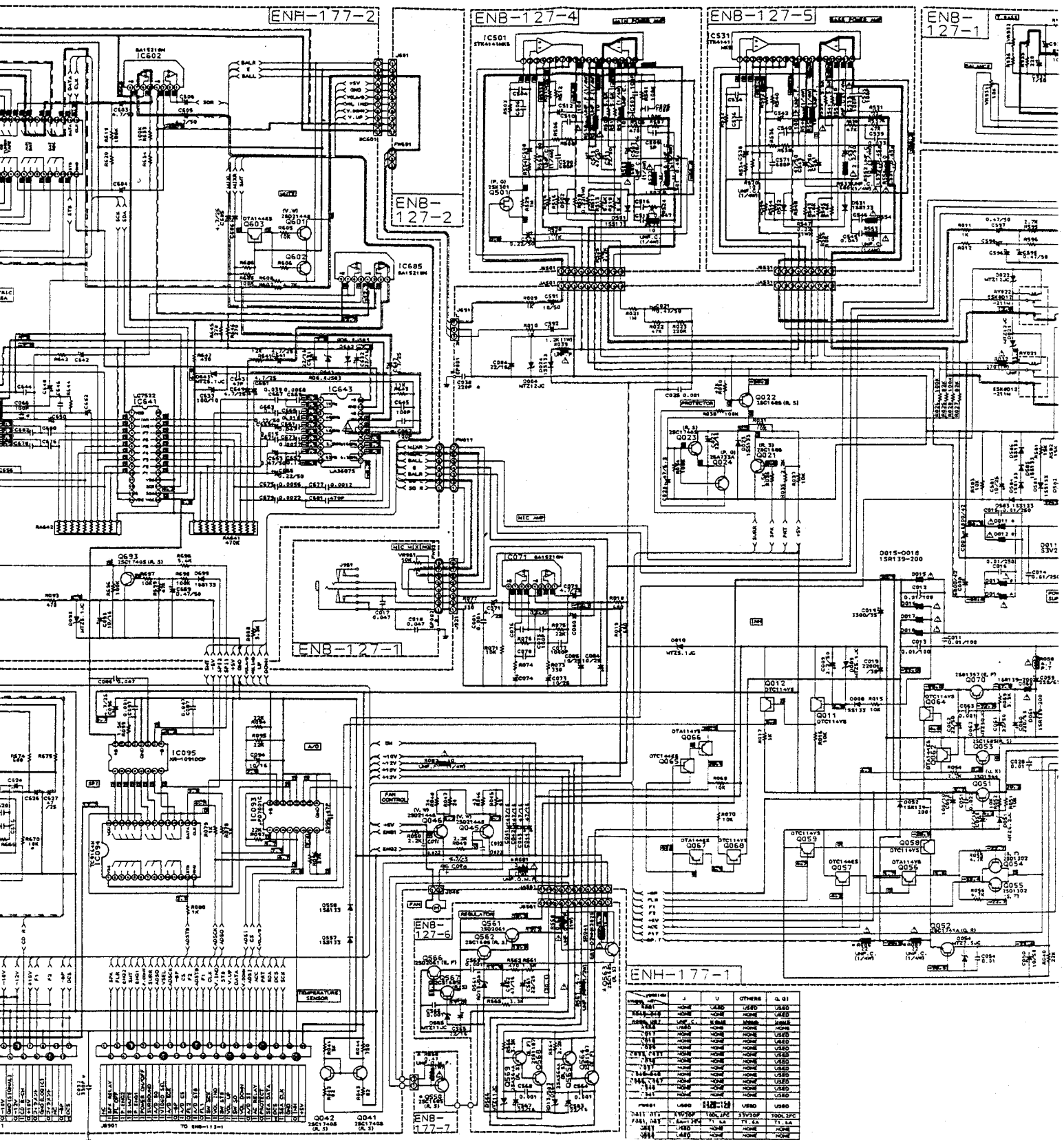
Schematic Diagrams

■ Analog Switch & Power Amplifier Section

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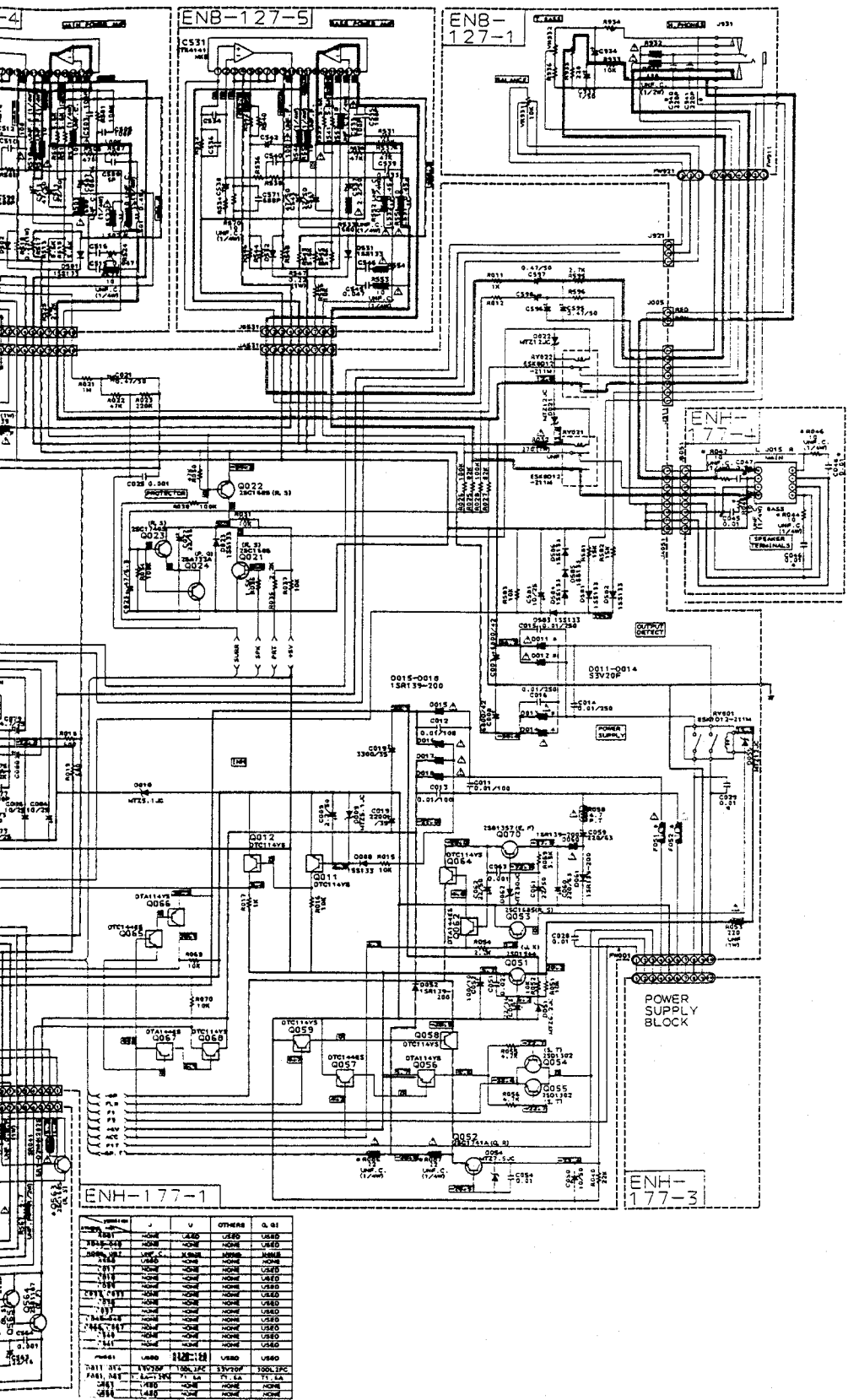


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Notes:

1. shows DC voltage applied to the chassis in the stop 5. V mode. (Digital section: PLAY mode)
2. indicates positive B power supply.
3. indicates negative B power supply.
4. indicate signal path.
5. V
6. T



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otes:

- shows DC voltage applied to the chassis in the stop mode. (Digital section: PLAY mode)
 - indicates positive B power supply.
 - - - indicates negative B power supply.
 - indicate signal path.
5. When replacing the parts in the darkened are (■) and those marked with △, be sure to use the designated parts to ensure safety.
 6. This is the standard circuit diagram
 The design and contents are subject to change without notice.