

**REEL MOTOR SUP.**  
REEL MOTOR T. UP  
CAP. MOTOR

**REEL M.D.A. PCA**  
PB-4MNA

**ACC - L 1-1**  
ACC-R (FF) 1-2  
RWD 1-3  
PLAY - L 1-4  
PLAY - R 1-5  
B.T. 1-6  
STZ - L 1-7  
STZ - R 1-8  
+12V 1-9

**19-1 ACC - L**  
19-2 ACC-R (FF)  
19-3 RWD  
19-4 PLA - L  
19-5 PLA - R  
19-6 BACK T  
19-7 STZ - L  
19-8 STZ - R  
19-9 +12V

**22-1 AC21V**  
22-2 AC0V  
22-3 AC21V  
22-4 AC27V  
22-5 AC13.5V  
22-6 AC0V  
22-7 AC8.2V  
22-8 AC0V  
22-9 AC20V  
22-10 AC0V

**4-1 AC21V**  
4-2 AC0V  
4-3 AC21V  
4-4 AC0V  
4-5 AC13.5V  
4-6 AC27V  
4-7 AC0V  
4-8 AC8.2V  
4-9 AC0V  
4-10 AC20V

**POWER TRANS**  
TF11128

**VOLTAGE SELECTOR PLUG**

**100V 1-9**  
110V 1-3  
117V 1-2  
200V 1-9  
220V 1-3  
240V 1-2

**AC POWER IN**

**ASS'Y NO.**  
PB-4MNA  
PB-7RCA  
PB-7RHA  
PB-7RBA  
PB-7RKA  
PB-7RLA  
PB-7RJA  
PB-7REA

**REF. NO.**  
1-6  
1-6  
7.8  
2.3  
4  
1.2  
1.2  
1.2  
1.2  
2.3, 4  
1.2

**QTY**  
1  
1  
1  
1  
1  
1  
1  
1  
1  
1  
1

**DESCRIPTION**  
PN-0326  
QSM3641  
PN-0319  
PN-0329  
PN-0327  
PN-0328  
PN-0329  
PN-0327  
PN-0328  
PN-0328

**REEL M.D.A. PCA**  
PB-4MNA

**REEL MOTOR SUP.**  
REEL MOTOR T. UP  
CAP. MOTOR

**ACC - L 1-1**  
ACC-R (FF) 1-2  
RWD 1-3  
PLAY - L 1-4  
PLAY - R 1-5  
B.T. 1-6  
STZ - L 1-7  
STZ - R 1-8  
+12V 1-9

**19-1 ACC - L**  
19-2 ACC-R (FF)  
19-3 RWD  
19-4 PLA - L  
19-5 PLA - R  
19-6 BACK T  
19-7 STZ - L  
19-8 STZ - R  
19-9 +12V

**22-1 AC21V**  
22-2 AC0V  
22-3 AC21V  
22-4 AC27V  
22-5 AC13.5V  
22-6 AC0V  
22-7 AC8.2V  
22-8 AC0V  
22-9 AC20V  
22-10 AC0V

**4-1 AC21V**  
4-2 AC0V  
4-3 AC21V  
4-4 AC0V  
4-5 AC13.5V  
4-6 AC27V  
4-7 AC0V  
4-8 AC8.2V  
4-9 AC0V  
4-10 AC20V

**POWER TRANS**  
TF11128

**VOLTAGE SELECTOR PLUG**

**100V 1-9**  
110V 1-3  
117V 1-2  
200V 1-9  
220V 1-3  
240V 1-2

**AC POWER IN**

**ASS'Y NO.**  
PB-4MNA  
PB-7RCA  
PB-7RHA  
PB-7RBA  
PB-7RKA  
PB-7RLA  
PB-7RJA  
PB-7REA

**REF. NO.**  
1-6  
1-6  
7.8  
2.3  
4  
1.2  
1.2  
1.2  
1.2  
2.3, 4  
1.2

**QTY**  
1  
1  
1  
1  
1  
1  
1  
1  
1  
1  
1

**DESCRIPTION**  
PN-0326  
QSM3641  
PN-0319  
PN-0329  
PN-0327  
PN-0328  
PN-0329  
PN-0327  
PN-0328  
PN-0328

**REEL M.D.A. PCA**  
PB-4MNA

**REEL MOTOR SUP.**  
REEL MOTOR T. UP  
CAP. MOTOR

**ACC - L 1-1**  
ACC-R (FF) 1-2  
RWD 1-3  
PLAY - L 1-4  
PLAY - R 1-5  
B.T. 1-6  
STZ - L 1-7  
STZ - R 1-8  
+12V 1-9

**19-1 ACC - L**  
19-2 ACC-R (FF)  
19-3 RWD  
19-4 PLA - L  
19-5 PLA - R  
19-6 BACK T  
19-7 STZ - L  
19-8 STZ - R  
19-9 +12V

**22-1 AC21V**  
22-2 AC0V  
22-3 AC21V  
22-4 AC27V  
22-5 AC13.5V  
22-6 AC0V  
22-7 AC8.2V  
22-8 AC0V  
22-9 AC20V  
22-10 AC0V

**4-1 AC21V**  
4-2 AC0V  
4-3 AC21V  
4-4 AC0V  
4-5 AC13.5V  
4-6 AC27V  
4-7 AC0V  
4-8 AC8.2V  
4-9 AC0V  
4-10 AC20V

**POWER TRANS**  
TF11128

**VOLTAGE SELECTOR PLUG**

**100V 1-9**  
110V 1-3  
117V 1-2  
200V 1-9  
220V 1-3  
240V 1-2

**AC POWER IN**

**ASS'Y NO.**  
PB-4MNA  
PB-7RCA  
PB-7RHA  
PB-7RBA  
PB-7RKA  
PB-7RLA  
PB-7RJA  
PB-7REA

**REF. NO.**  
1-6  
1-6  
7.8  
2.3  
4  
1.2  
1.2  
1.2  
1.2  
2.3, 4  
1.2

**QTY**  
1  
1  
1  
1  
1  
1  
1  
1  
1  
1  
1

**DESCRIPTION**  
PN-0326  
QSM3641  
PN-0319  
PN-0329  
PN-0327  
PN-0328  
PN-0329  
PN-0327  
PN-0328  
PN-0328

**REEL M.D.A. PCA**  
PB-4MNA

**REEL MOTOR SUP.**  
REEL MOTOR T. UP  
CAP. MOTOR

**ACC - L 1-1**  
ACC-R (FF) 1-2  
RWD 1-3  
PLAY - L 1-4  
PLAY - R 1-5  
B.T. 1-6  
STZ - L 1-7  
STZ - R 1-8  
+12V 1-9

**19-1 ACC - L**  
19-2 ACC-R (FF)  
19-3 RWD  
19-4 PLA - L  
19-5 PLA - R  
19-6 BACK T  
19-7 STZ - L  
19-8 STZ - R  
19-9 +12V

**22-1 AC21V**  
22-2 AC0V  
22-3 AC21V  
22-4 AC27V  
22-5 AC13.5V  
22-6 AC0V  
22-7 AC8.2V  
22-8 AC0V  
22-9 AC20V  
22-10 AC0V

**4-1 AC21V**  
4-2 AC0V  
4-3 AC21V  
4-4 AC0V  
4-5 AC13.5V  
4-6 AC27V  
4-7 AC0V  
4-8 AC8.2V  
4-9 AC0V  
4-10 AC20V

**POWER TRANS**  
TF11128

**VOLTAGE SELECTOR PLUG**

**100V 1-9**  
110V 1-3  
117V 1-2  
200V 1-9  
220V 1-3  
240V 1-2

**AC POWER IN**

**ASS'Y NO.**  
PB-4MNA  
PB-7RCA  
PB-7RHA  
PB-7RBA  
PB-7RKA  
PB-7RLA  
PB-7RJA  
PB-7REA

**REF. NO.**  
1-6  
1-6  
7.8  
2.3  
4  
1.2  
1.2  
1.2  
1.2  
2.3, 4  
1.2

**QTY**  
1  
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1

**DESCRIPTION**  
PN-0326  
QSM3641  
PN-0319  
PN-0329  
PN-0327  
PN-0328  
PN-0329  
PN-0327  
PN-0328  
PN-0328

**REEL M.D.A. PCA**  
PB-4MNA

**REEL MOTOR SUP.**  
REEL MOTOR T. UP  
CAP. MOTOR

**ACC - L 1-1**  
ACC-R (FF) 1-2  
RWD 1-3  
PLAY - L 1-4  
PLAY - R 1-5  
B.T. 1-6  
STZ - L 1-7  
STZ - R 1-8  
+12V 1-9

**19-1 ACC - L**  
19-2 ACC-R (FF)  
19-3 RWD  
19-4 PLA - L  
19-5 PLA - R  
19-6 BACK T  
19-7 STZ - L  
19-8 STZ - R  
19-9 +12V

**22-1 AC21V**  
22-2 AC0V  
22-3 AC21V  
22-4 AC27V  
22-5 AC13.5V  
22-6 AC0V  
22-7 AC8.2V  
22-8 AC0V  
22-9 AC20V  
22-10 AC0V

**4-1 AC21V**  
4-2 AC0V  
4-3 AC21V  
4-4 AC0V  
4-5 AC13.5V  
4-6 AC27V  
4-7 AC0V  
4-8 AC8.2V  
4-9 AC0V  
4-10 AC20V

**POWER TRANS**  
TF11128

**VOLTAGE SELECTOR PLUG**

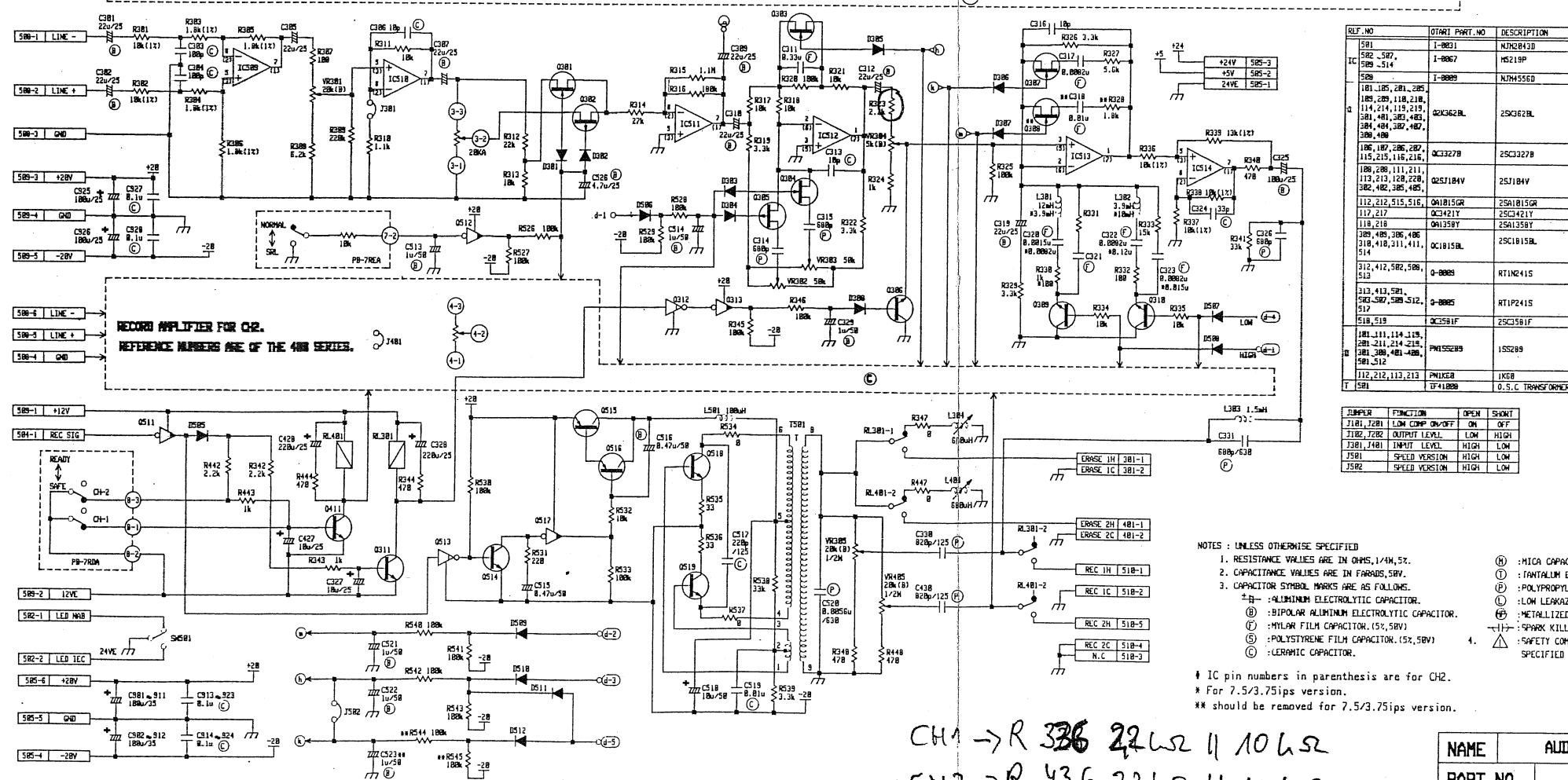
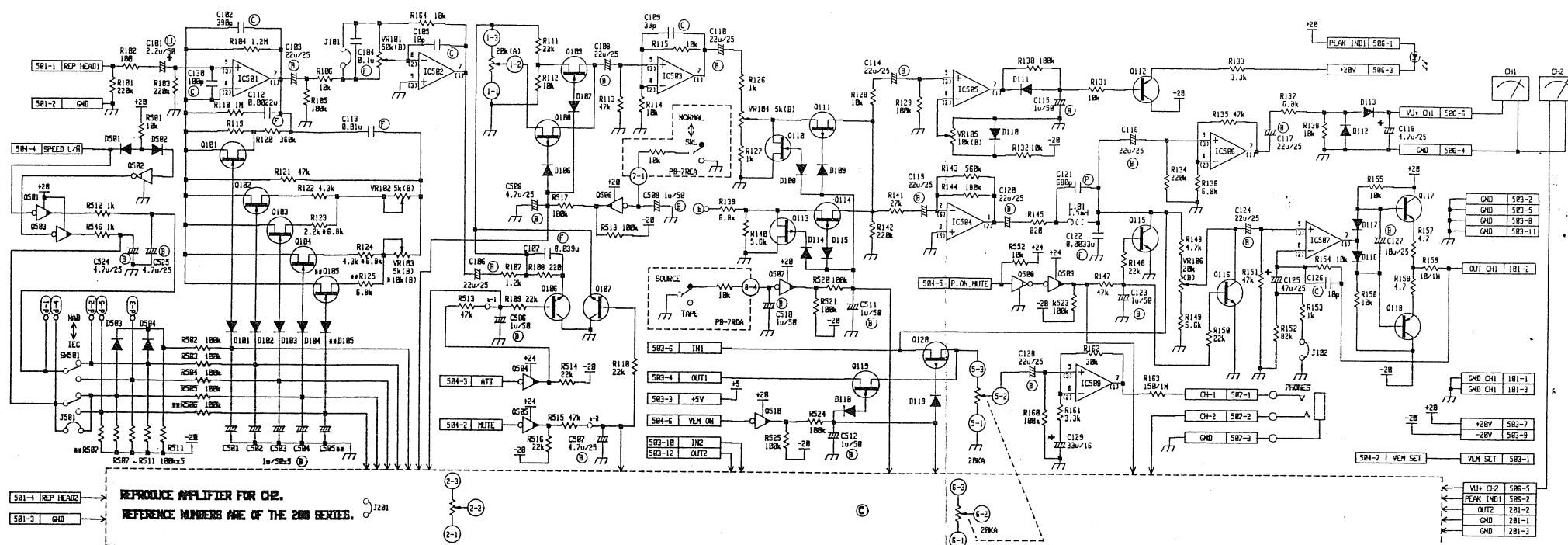
**100V 1-9**  
110V 1-3  
117V 1-2  
200V 1-9  
220V 1-3  
240V 1-2

**AC POWER IN**

**ASS'Y NO.**  
PB-4MNA  
PB-7RCA  
PB-7RHA  
PB-7RBA  
PB-7RKA  
PB-7RLA  
PB-7RJA  
PB-7REA

**REF. NO.**  
1-6  
1-6  
7.8

## **[2] Audio Amplifier PCB Assembly**





| REL. NO.  | START PART. NO. | DESCRIPTION       |
|---|-----------------|-------------------|
| 501   | 1-0001          | MTC2410           |
| 502-507,<br>508-514   | 1-0007          | MS219P            |
| 509   | 1-0009          | MS1556D           |
| 101,105,201,205,<br>206,209,110,210,<br>114,214,119,219,<br>201,401,203,403,<br>204,404,207,407,<br>306,406 | Q25362L         | 25C362L           |
| 106,107,206,209,<br>215,216,116,216,<br>108,208,111,211,<br>212,213,108,208,<br>302,402,205,405             | Q23327B         | 25C3327B          |
| 108,208,111,211,<br>212,213,108,208,<br>302,402,205,405   | Q25104V         | 25J104V           |
| 112,212,515,516,<br>117,217   | Q40156R         | 25A156R           |
| 118,218   | Q40241Y         | 25C3421Y          |
| 305,405,206,406<br>118,410,311,411,<br>514,512,502,508,<br>513,513,501,<br>503-507,508-512,<br>518,518      | Q40158Y         | 25A1358Y          |
| 305,405,206,406<br>118,410,311,411,<br>514,512,502,508,<br>513,513,501,<br>503-507,508-512,<br>518,518      | Q40158L         | 25C10158L         |
| 512,512,502,508,<br>513,513,501,<br>503-507,508-512,<br>518,518   | Q-0005          | RTN2415           |
| 512,512,502,508,<br>513,513,501,<br>503-507,508-512,<br>518,518   | Q-0005          | RT1P2415          |
| 518,518   | Q25391F         | 25C3591F          |
| 101,111,114,213,<br>201,211,214,215,<br>203,208,401,406,<br>508,512   | PN1502B         | 15S20B            |
| 112,212,113,213   | PN1502C         | 15E8              |
| 1   | T41000          | 0.5-C TRANSFORMER |


| JUMPER     | FUNCTION        | OPEN | SHORT |
|------------|-----------------|------|-------|
| J181, J281 | LOW COMP ON/OFF | ON   | OFF   |
| J182, J282 | OUTPUT LEVEL    | LOW  | HIGH  |
| J381, J481 | INPUT LEVEL     | HIGH | LOW   |
| J581       | SPEED VERSION   | HIGH | LOW   |
| J582       | SPEED VERSION   | HIGH | LOW   |


NOTES : UNLESS OTHERWISE SPECIFIED


1. RESISTANCE VALUES ARE IN OHMS, 1/4W, 5%.
2. CAPACITANCE VALUES ARE IN FARADS, 50V.
3. CAPACITOR SYMBOL MARKS ARE AS FOLLOWS.  



 ALUMINUM ELECTROLYTIC CAPACITOR.

 BIPOLAR ALUMINUM ELECTROLYTIC CAPACITOR.

 MYLAR FILM CAPACITOR. (5%, 50V)

 POLYSTYRENE FILM CAPACITOR. (5%, 50V)

 CERAMIC CAPACITOR.

- (H) : MICA CAPACITOR. (5%)
- (T) : TANTALUM ELECTROLYTIC CAPACITOR.
- (P) : POLYPROPYLENE FILM CAPACITOR. (5%)
- (L) : LOW LEAKAGE CURRENT ELECTROLYTIC CAPACITOR.
- (M) : METALLIZED PAPER CAPACITOR. (10%)
-  : SPARK KILLER.
-  : SAFETY COMPONENT ; REPLACE ONLY WITH THE SPECIFIED COMPONENT FOR SAFETY REASON.

† IC pin numbers in parenthesis are for CH2.

\* For 7.5/3.75ips version.

\*\* should be removed for 7.5/3.75ips version.

CH1  $\rightarrow R$  ~~336~~ 22  $\Omega$  || 10  $\Omega$

CH<sub>2</sub>-R 436 2,2 kΩ и 10 kΩ

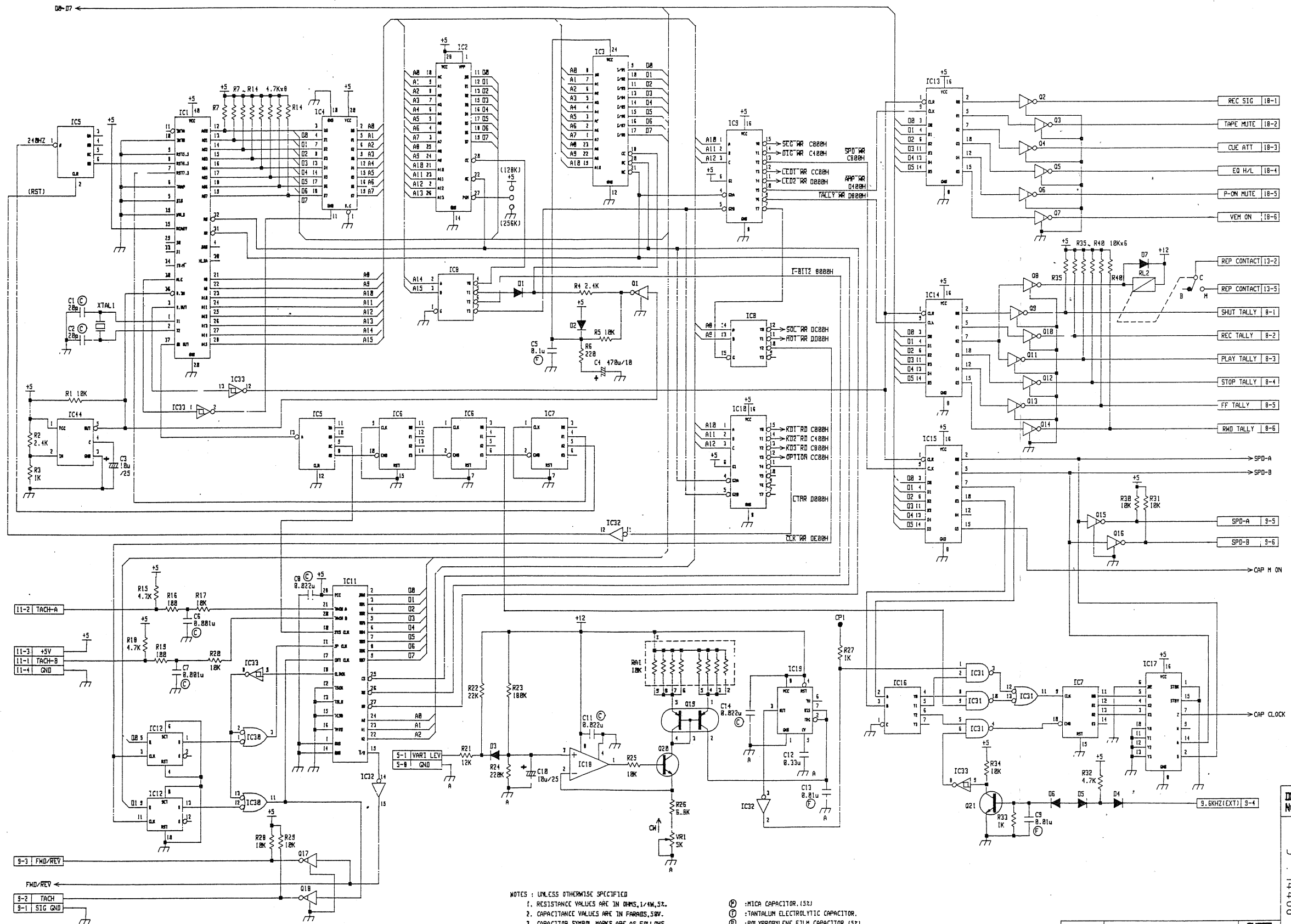
<sup>u</sup> Änderung am 5.12.89 f.z.

|          |               |                 |
|----------|---------------|-----------------|
| NAME     | AUDIO AMP PCA | SHEET<br>1 OF 1 |
| PART NO. | PB1BCBA       |                 |
| APPLIED  | PB-1BCA       |                 |

NO.

3. 14472

# [3] Control PCB Assembly (1)



NOTES: UNLESS OTHERWISE SPECIFIED

1. RESISTANCE VALUES ARE IN OHMS, 1/4W, 5%.

2. CAPACITANCE VALUES ARE IN FARADS, 50V.

3. CAPACITOR SYMBOL MARKS ARE AS FOLLOWS.

- ① ALUMINUM ELECTROLYTIC CAPACITOR.
- ② BIPOLAR ALUMINUM ELECTROLYTIC CAPACITOR.
- ③ MYLAR FILM CAPACITOR, (5%, 50V)
- ④ POLYSTYRENE FILM CAPACITOR, (5%, 50V)
- ⑤ CERAMIC CAPACITOR.

⑥ MICA CAPACITOR, (5%)

⑦ TANTALUM ELECTROLYTIC CAPACITOR.

⑧ POLYPROPYLENE FILM CAPACITOR, (5%)

⑨ LOW LEAKAGE CURRENT ELECTROLYTIC CAPACITOR.

⑩ METALLIZED PAPER CAPACITOR, (10%)

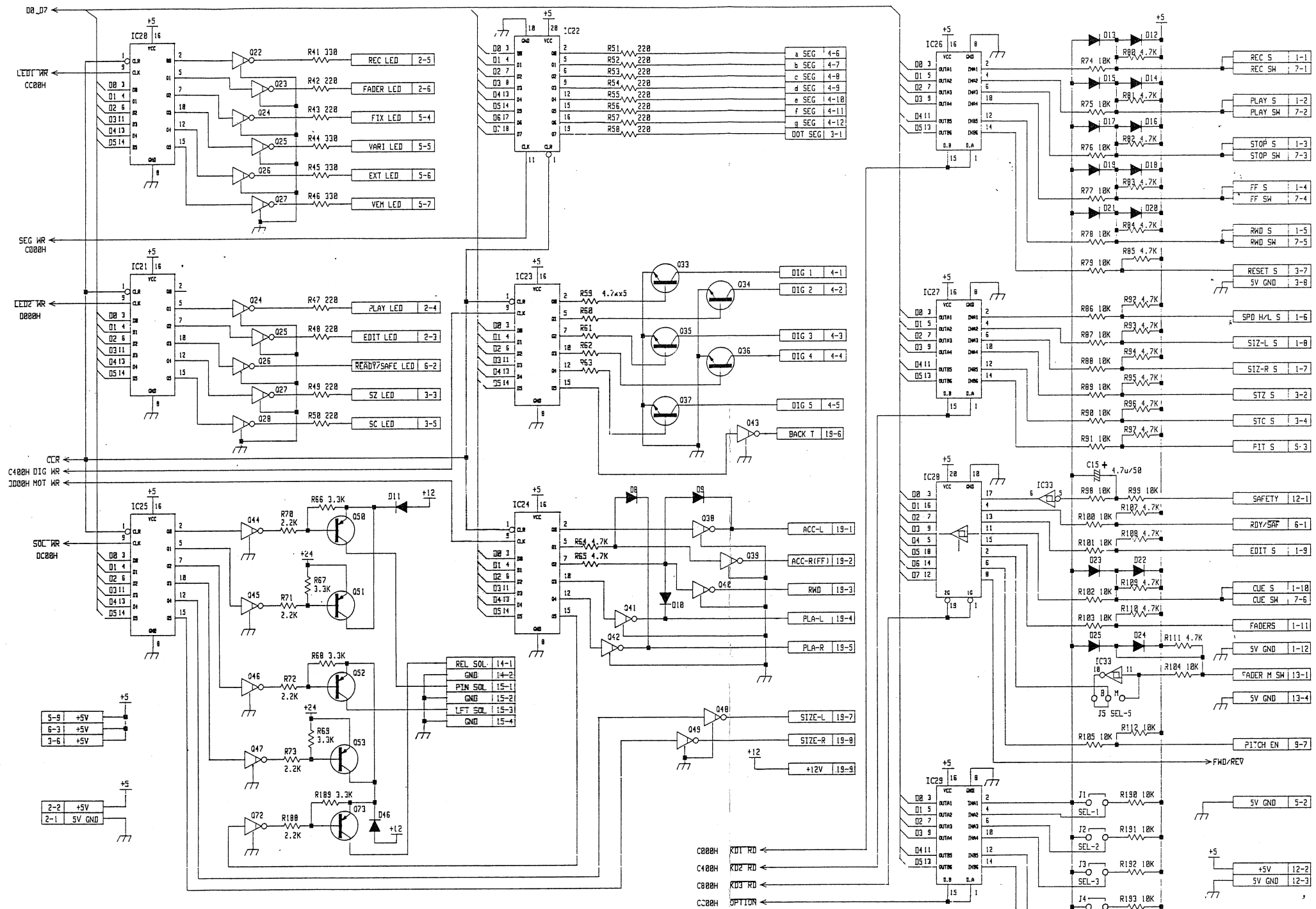
⑪ SPARK KILLER.

⑫ SAFETY COMPONENT; REPLACE ONLY WITH THE SPECIFIED COMPONENT FOR SAFETY REASON.

| NAME     | CONTROL PCA | SHEET 1 of 4 |
|----------|-------------|--------------|
| PART NO. | PB4MK0A     |              |
| APPLIED  | PB-4MKA     |              |

DWG NO. 3 1468

#### **[4] Control PCB Assembly (2)**



NOTES : UNLESS OTHERWISE SPECIFIED

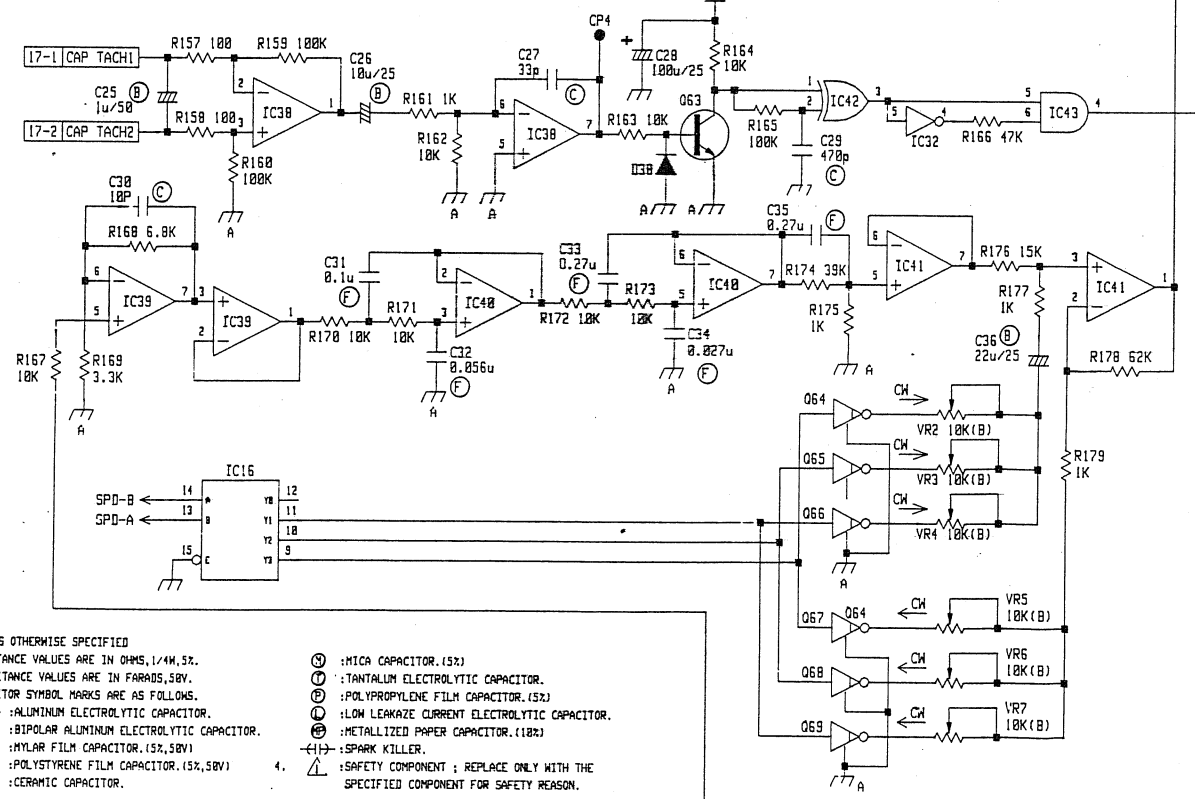
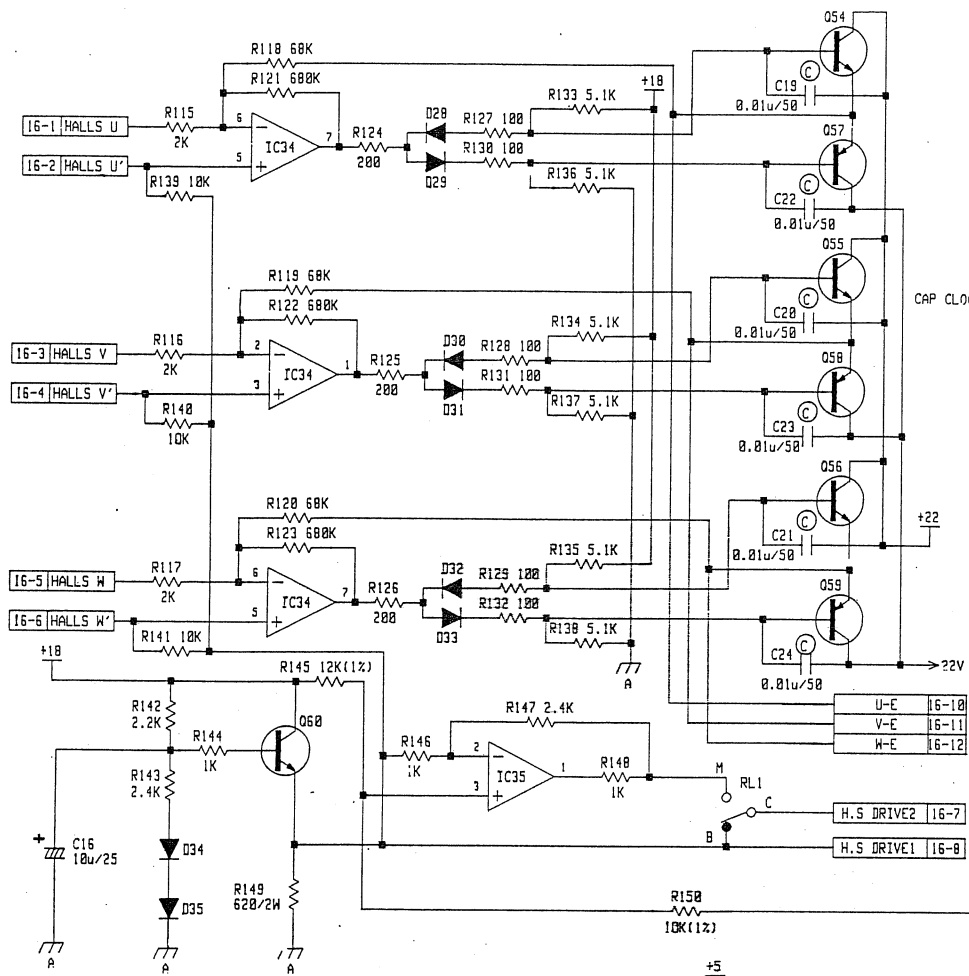
1. RESISTANCE VALUES ARE IN OHMS, 1/W, 5%.
2. CAPACITANCE VALUES ARE IN FARADS, 5BV.
3. CAPACITOR SYMBOL MARKS ARE AS FOLLOWS.  
  - ⊖ — ALUMINUM ELECTROLYTIC CAPACITOR
  - ⊕ — BIPOLAR ALUMINUM ELECTROLYTIC
  - ⊖ — MYLAR FILM CAPACITOR. (5%, 5BV)
  - ⊖ — POLYSTYRENE FILM CAPACITOR. (5%)
  - ⊖ — CERAMIC CAPACITOR.

- (M) :MICA CAPACITOR.(5%)
- (T) :TANTALUM ELECTROLYTIC CAPACITOR.
- (P) :POLYPROPYLENE FILM CAPACITOR.(5%)
- (L) :LOW LEAKAGE CURRENT ELECTROLYTIC CAPACITOR.
- (E) :METALLIZED PAPER CAPACITOR.(10%)
- (-||-) :SPARK KILLER.
- (⚠) :SAFETY COMPONENT ; REPLACE ONLY WITH THE SPECIFIED COMPONENT FOR SAFETY REASON.

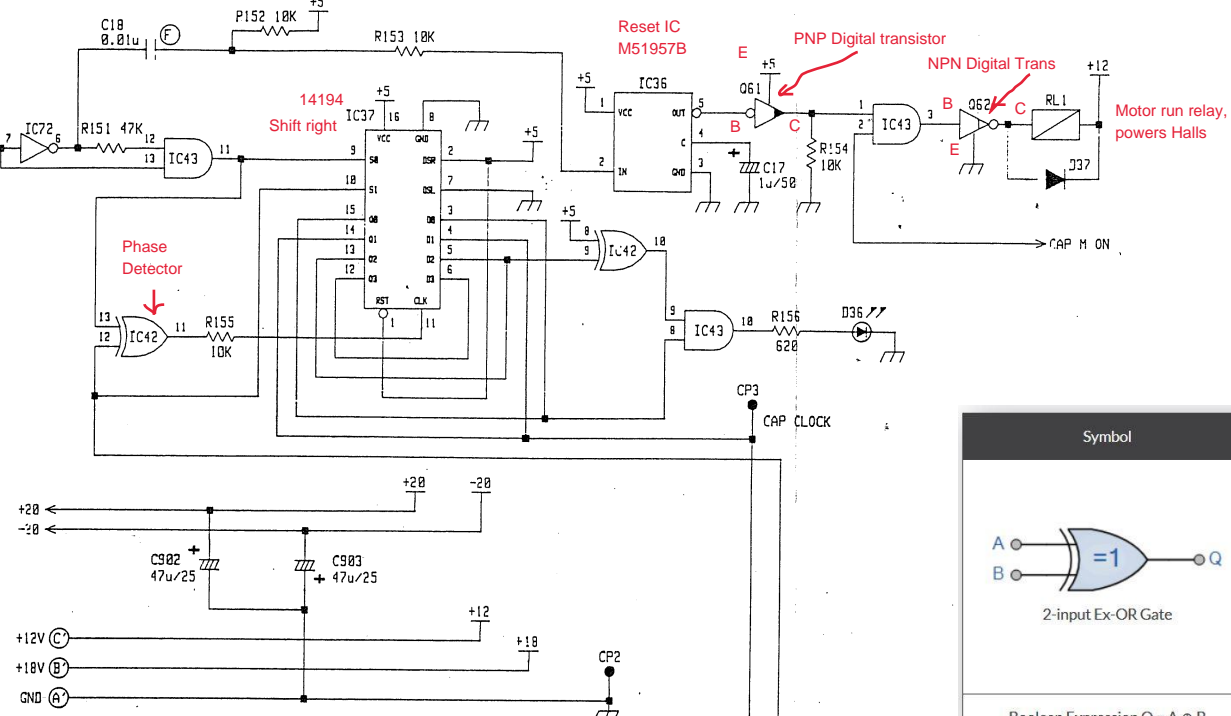
|          |             |                 |
|----------|-------------|-----------------|
| NAME     | CONTROL PCA | SHEET<br>2 of 4 |
| PART NO. | PB4MKBA     |                 |
| APPLIED  | PB-4MKA     |                 |

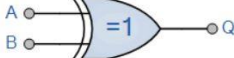


### **[5] Control PCB Assembly (3)**



| Operating Mode | Inputs<br>(Reset = 1) |    |     |     |       | Outputs<br>(@ $t_{n+1}$ ) |    |    |    |
|----------------|-----------------------|----|-----|-----|-------|---------------------------|----|----|----|
|                | S1                    | S0 | DSR | DSL | Dp0-3 | Q0                        | Q1 | Q2 | Q3 |
| Hold           | 0                     | 0  | X   | X   | X     | Q0                        | Q1 | Q2 | Q3 |
| Shift Left     | 1                     | 0  | X   | 0   | X     | Q1                        | Q2 | Q3 | 0  |
|                | 1                     | 0  | X   | 1   | X     | Q1                        | Q2 | Q3 | 1  |
| Shift Right    | 0                     | 1  | 0   | X   | X     | 0                         | Q0 | Q1 | Q2 |
|                | 0                     | 1  | 1   | X   | X     | 1                         | Q0 | Q1 | Q2 |
| Parallel       | 1                     | 1  | X   | X   | 0     | 0                         | 0  | 0  | 0  |
|                | 1                     | 1  | X   | X   | 1     | 1                         | 1  | 1  | 1  |



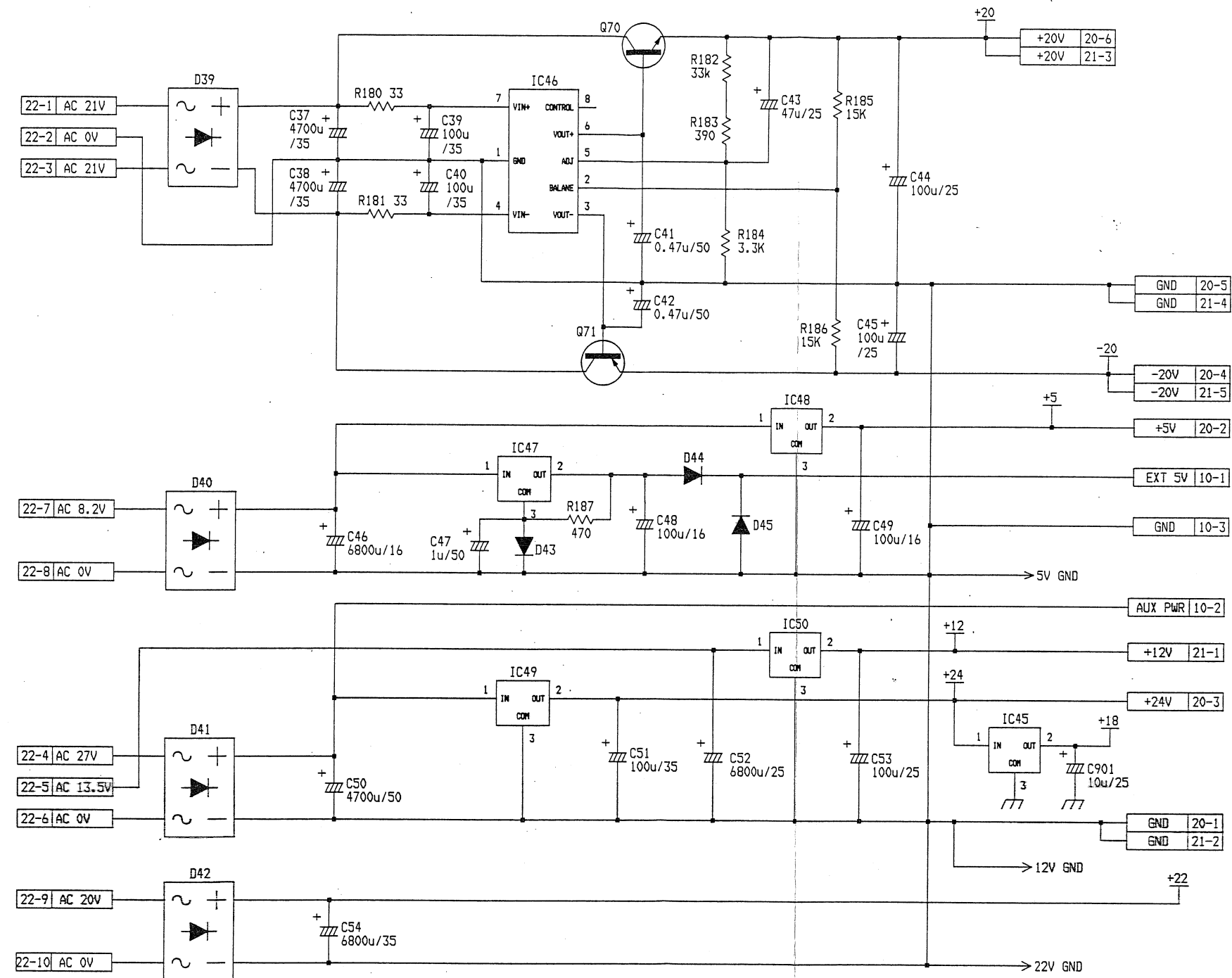
| Symbol  | Truth Table                         |   |   |
|---|-------------------------------------|---|---|
|  <p>2-input Ex-OR Gate</p> | B                                   | A | Q |
|   | 0                                   | 0 | 0 |
|   | 0                                   | 1 | 1 |
|   | 1                                   | 0 | 1 |
|   | 1                                   | 1 | 0 |
|   | Boolean Expression $Q = A \oplus B$ |   |   |
| A OR B but NOT BOTH gives Q   |                                     |   |   |

| REF NO.        | OTARI PART NO. | DESCRIPTION    | REF NO.        | OTARI PART NO. | DESCRIPTION     |
|----------------|----------------|----------------|----------------|----------------|-----------------|
| 1              | IMS18085       | MS18085AP      | 42             | IMC14070       | MC14070         |
| 2              | I-0065         | MSM27120K      | 43             | IMC14001       | MC14001         |
| 3              | I-0021         | HM6116P-4      | 45             | IMC7010        | NJM7010A        |
| 4              | I0373          | TC74HC237P     | 46             | I-0062         | MS230L          |
| 5              | I0393          | TC74HC393P     | 47, 48         | IMC7005        | MPC7005         |
| 6              | IMC14510       | MC14510        | 49             | IMC7024        | MPC7024         |
| 7              | IMC14520       | MC14520        | 50             | IMC7012        | MPC7012         |
| 9              | I0139          | SN74HC139N     |                |                |                 |
| 9, 10          | I0138          | SN74HC138N     | 1, 10, 22, 32  | Q-0002         | UTC124EF        |
| 11             | I-0012         | 32BIT-U/D CNTR | 30, 49, 62     |                |                 |
| 12             | IMC14013       | MC14013        | 64, 69, 72     |                |                 |
| 13, 14, 15     |                |                | 19             | 9A955C         | 25A955C         |
| 20, 21, 23     | IMC14174       | MC14174        | 20, 21, 63     | QC1815BL       | 25C1815BL       |
| 24, 25         |                |                | 33, 37         | QC1627         | 25C1627         |
|                |                |                | 50, 53, 73     | QA102BY        | 25A102BY        |
| 16             | IMC14555       | MC14555        | 54, 55, 56     | Q01415         | 25D1415         |
| 17             | IMC14539       | MC14539        | 57, 58, 59     | Q01020         | 25B1020         |
| 18             | TL002CP        | TL002CP        | 60             | OC2655Y        | 25C2655Y        |
| 19             | I-NE555V       | NE555N         | 61             | Q-0005         | DTA124EF        |
| 22             | I0273          | TC74HC273P     | 70             | OD525          | 25D525          |
| 26, 27, 29     | IMC14503       | MC14503        | 71             | OB595          | 25B595          |
| 28             | I0244          | SN74HC244N     |                |                |                 |
| 29             | I0080          | SN74HC08N      | 1, 10, 12, 35  | PN15S133       | 15S133          |
| 31             | IMC14011       | MC14011        | 37, 38, 43     |                |                 |
| 32             | IMC14049       | MC14049        | 11, 44, 45, 46 | PN-0319        | 15R-35-100      |
| 33             | I014           | SN74HC14N      | 39, 40, 41     | PN3D4B41       | 304B41          |
| 34, 35         | IMS223P        | MS223P         | 36             | PNTLR124       | TLR124          |
| 36, 44         | IMS1557B       | MS1557BL       | 42             | PN4D4B41       | 404B41          |
| 37             | IMC14194       | MC14194        | RL             | RY1CB064       | MZ-12HG         |
| 38, 39, 40, 41 | I-0067         | MS219P         | XTAL           | P24C053        | HC-18u 6.144MHZ |

|         |           |
|---------|-----------|
| IMG NO. | 3 . 14470 |
|---------|-----------|

|          |             |                 |
|----------|-------------|-----------------|
| NAME     | CONTROL PCA | SHEET<br>3 OF 4 |
| PART NO. | PB4MK0A     |                 |
| APPLIED  | PB-4MKA     |                 |

[6] Control PCB Assembly (4)



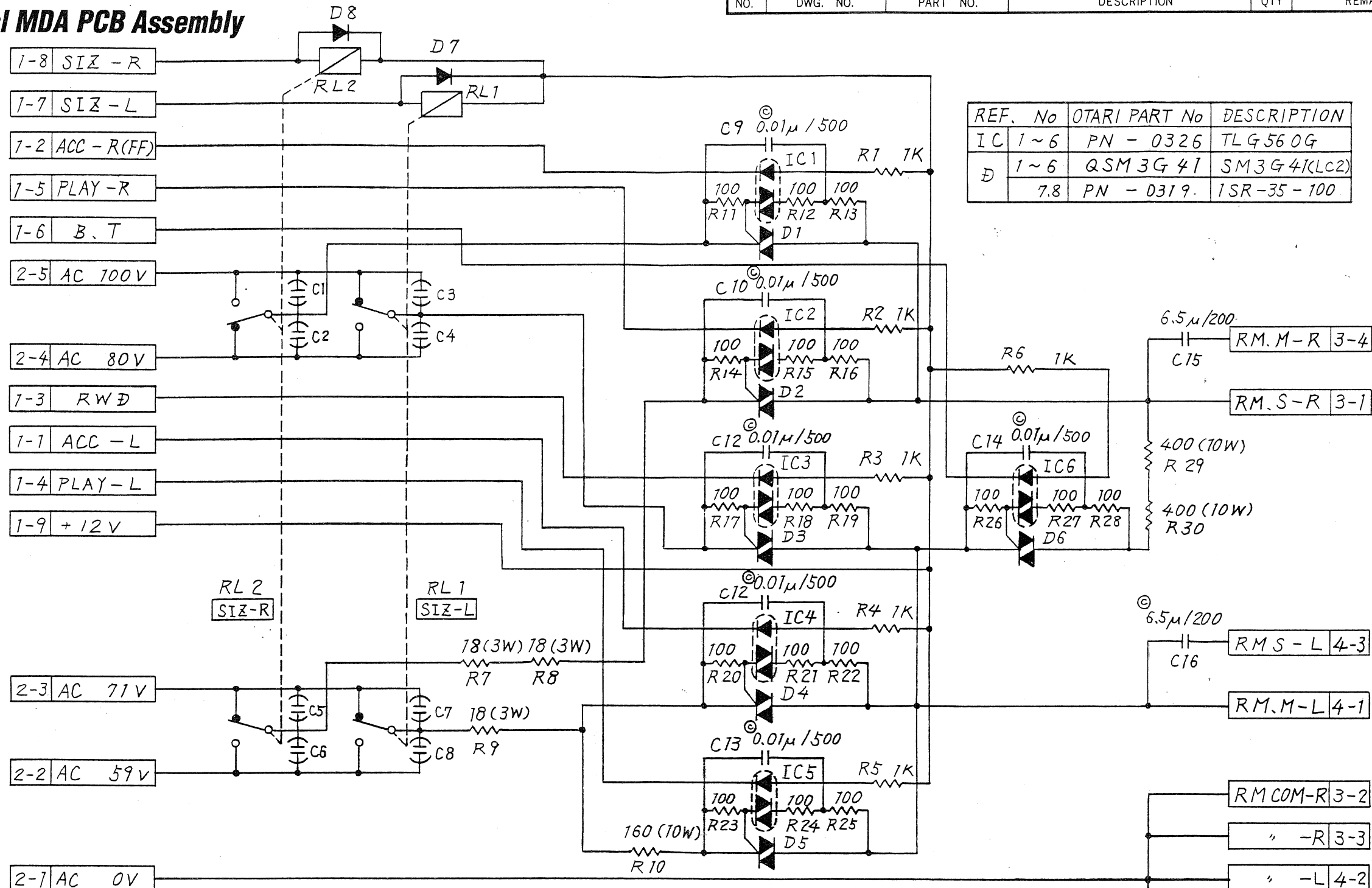
- NOTES : UNLESS OTHERWISE SPECIFIED
1. RESISTANCE VALUES ARE IN OHMS, 1/4W, 5%.
  2. CAPACITANCE VALUES ARE IN FARADS, 50V.
  3. CAPACITOR SYMBOL MARKS ARE AS FOLLOWS:
    - ⊖ : ALUMINUM ELECTROLYTIC CAPACITOR.
    - ⊕ : BIPOLAR ALUMINUM ELECTROLYTIC CAPACITOR.
    - ⊖ : MYLAR FILM CAPACITOR, (5%, 50V)
    - ⊕ : POLYSTYRENE FILM CAPACITOR, (5%, 50V)
    - ⊖ : CERAMIC CAPACITOR.
  4. ⚡ : SAFETY COMPONENT ; REPLACE ONLY WITH THE SPECIFIED COMPONENT FOR SAFETY REASON.
- ⊖ : MICA CAPACITOR, (5%)  
⊕ : TANTALUM ELECTROLYTIC CAPACITOR.  
⊖ : POLYPROPYLENE FILM CAPACITOR, (5%)  
⊕ : LOW LEAKAGE CURRENT ELECTROLYTIC CAPACITOR.  
⊖ : METALLIZED PAPER CAPACITOR, (10%)  
⚡ : SPARK KILLER.

|          |             |        |
|----------|-------------|--------|
| NAME     | CONTROL PCA | SHEET  |
| PART NO. | PB4MK0A     | 4 OF 4 |
| APPLIED  | PB-4MKA     |        |

|           |
|-----------|
| DWG NO.   |
| 3 . 14471 |

# [7] Reel MDA PCB Assembly

| NO. | DWG. NO. | PART NO. | DESCRIPTION | QTY | REMARKS |
|-----|----------|----------|-------------|-----|---------|
|-----|----------|----------|-------------|-----|---------|



| REF. No | OTARI PART No | DESCRIPTION |
|---------|---------------|-------------|
| IC 1~6  | PN - 0326     | TLG560G     |
| D 1~6   | QSM3G41       | SM3G41(LC2) |
| 7.8     | PN - 0319     | 1SR-35-100  |

## NOTES : UNLESS OTHERWISE SPECIFIED

1. RESISTANCE VALUES ARE IN OHMS,  $\pm 5\%$ .

2. CAPACITANCE VALUES ARE IN FARADS, 50V.

3. CAPACITOR SYMBOL MARKS ARE AS FOLLOWS.

⊖ : ALUMINUM ELECTROLYTIC CAPACITOR.

⊕ : BIPOLAR ALUMINUM ELECTROLYTIC CAPACITOR.

Ⓜ : MYLAR FILM CAPACITOR( $\pm 5\%$ , 50V)

Ⓢ : POLYSTYRENE FILM CAPACITOR( $\pm 5\%$ , 50V)

Ⓢ : CERAMIC CAPACITOR.

Ⓢ : MICA CAPACITOR( $\pm 5\%$ )

Ⓢ : TANTALUM ELECTROLYTIC CAPACITOR.

Ⓢ : POLYPROPYLENE FILM CAPACITOR( $\pm 5\%$ )

Ⓢ : LOW LEAKAGE CURRENT ELECTROLYTIC CAPACITOR.

Ⓢ : METALLIZED PAPER CAPACITOR( $\pm 10\%$ )

Ⓢ : SPARK KILLER.

Ⓢ : SAFETY COMPONENT : REPLACE ONLY WITH THE SPECIFIED COMPONENT FOR SAFETY REASON.

|          |              |              |
|----------|--------------|--------------|
| NAME     | REEL MDA PCA | SHEET 1 OF 1 |
| PART NO. | PB4MNOA      |              |
| APPLIED  | PB-4MNA      |              |