

Figure 295

898

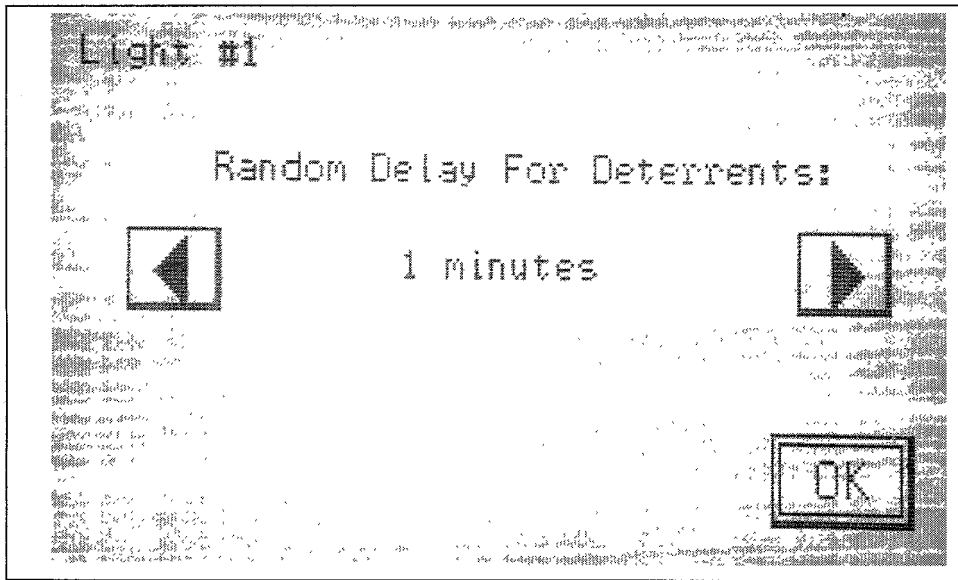


Figure 296

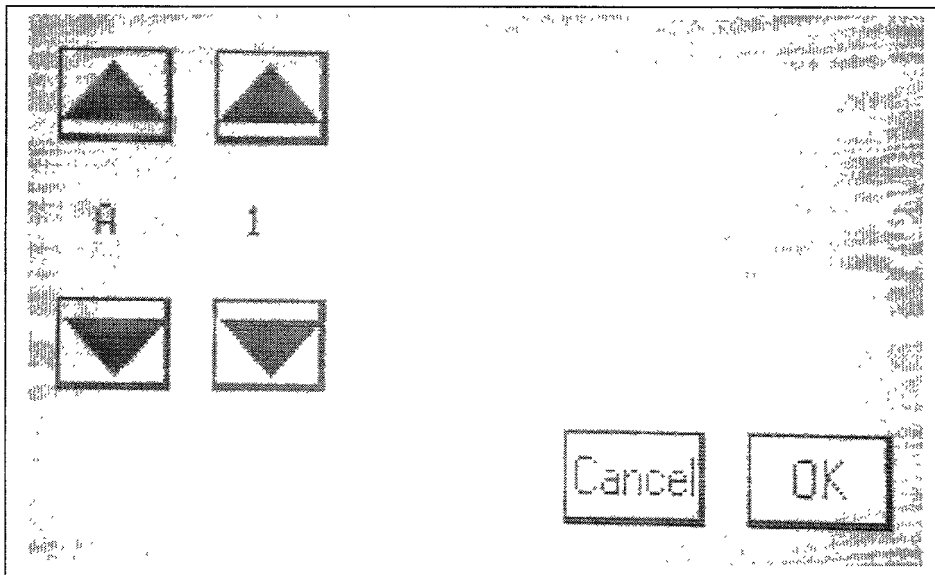


Figure 297

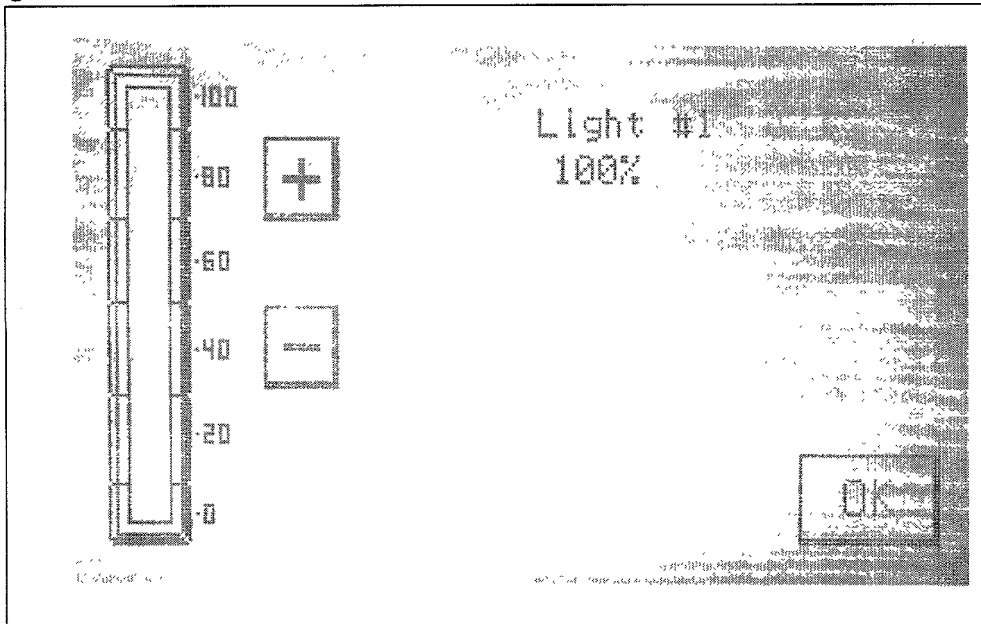


Figure 298 and Figure 299 included

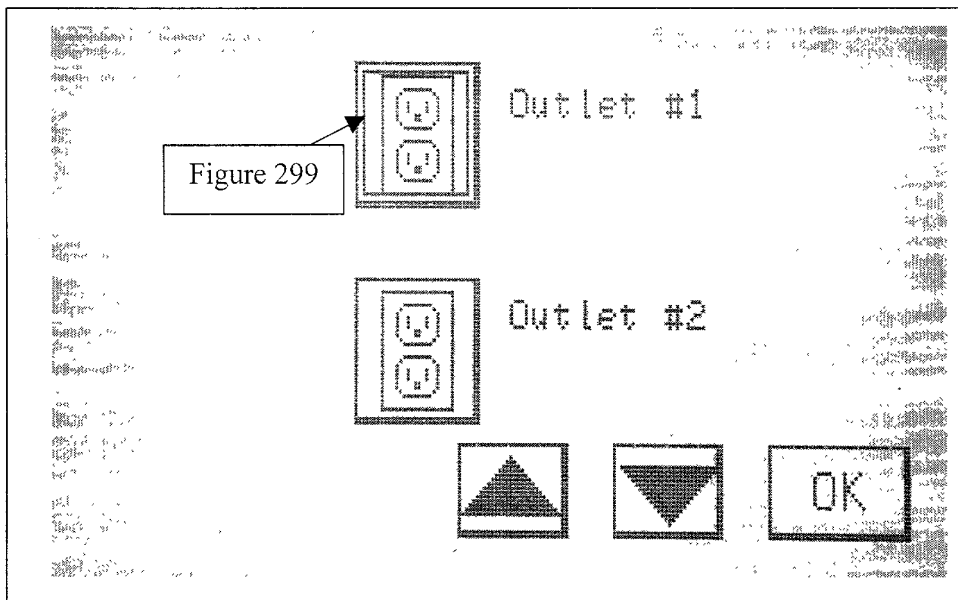
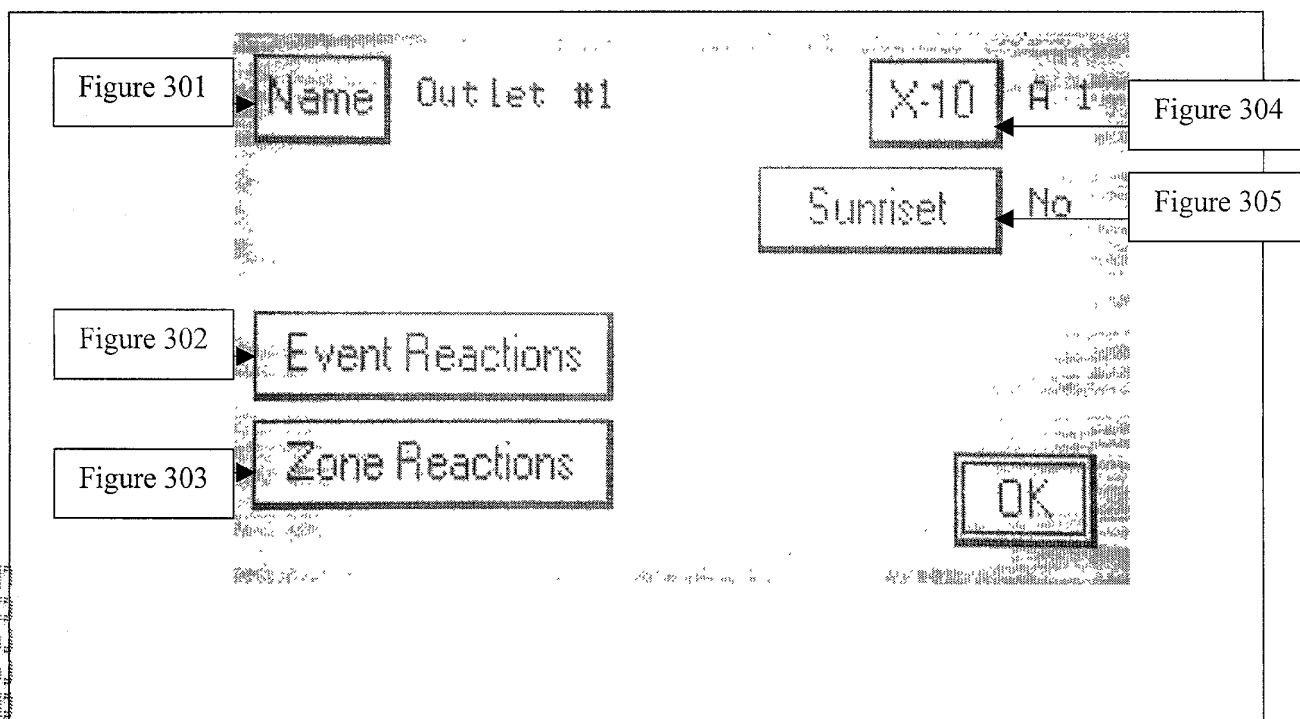


Figure 300



Figures 301-305 shown in Figure 300 above

Figure 306

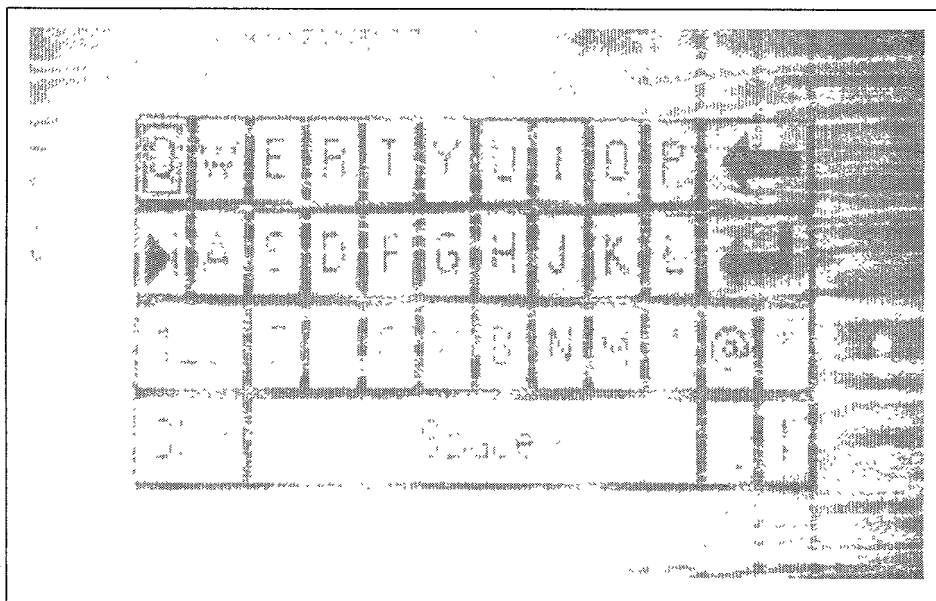


Figure 307

901

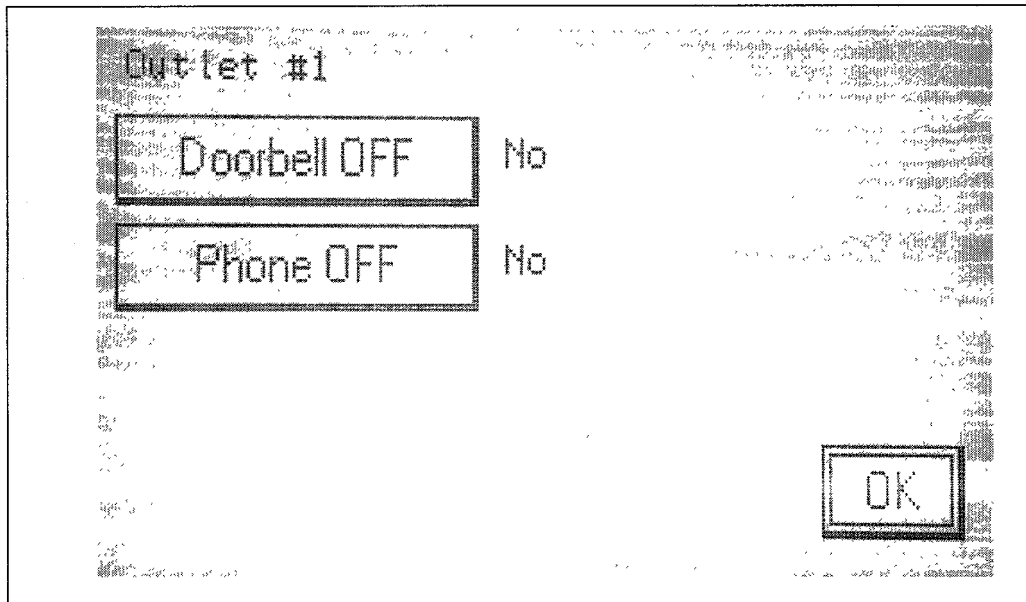


Figure 308

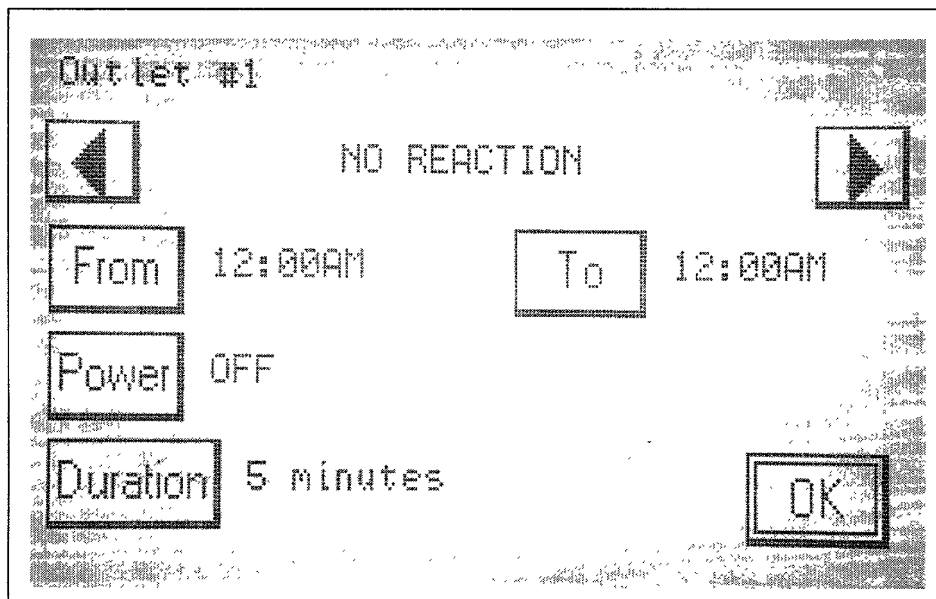


Figure 309

902

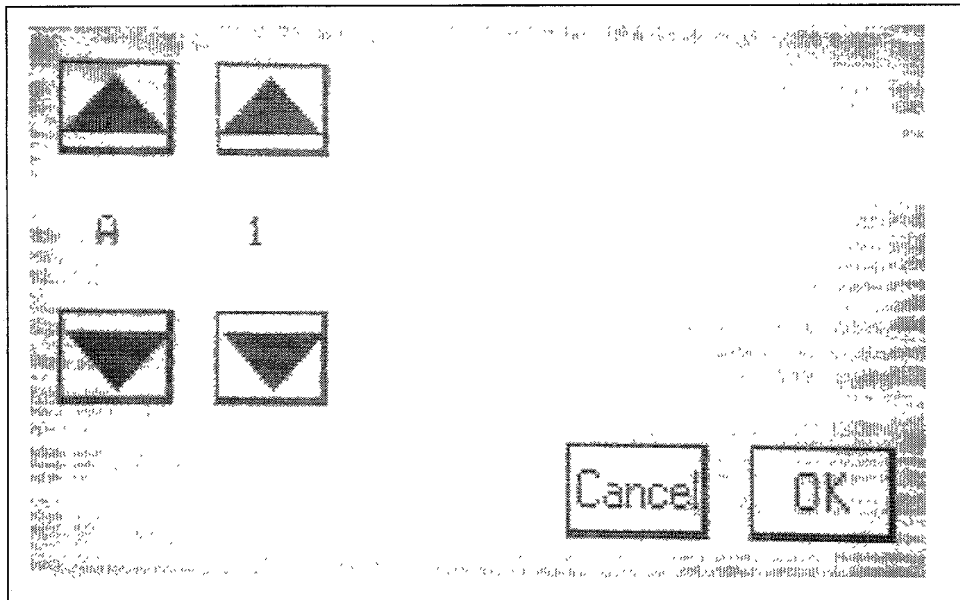
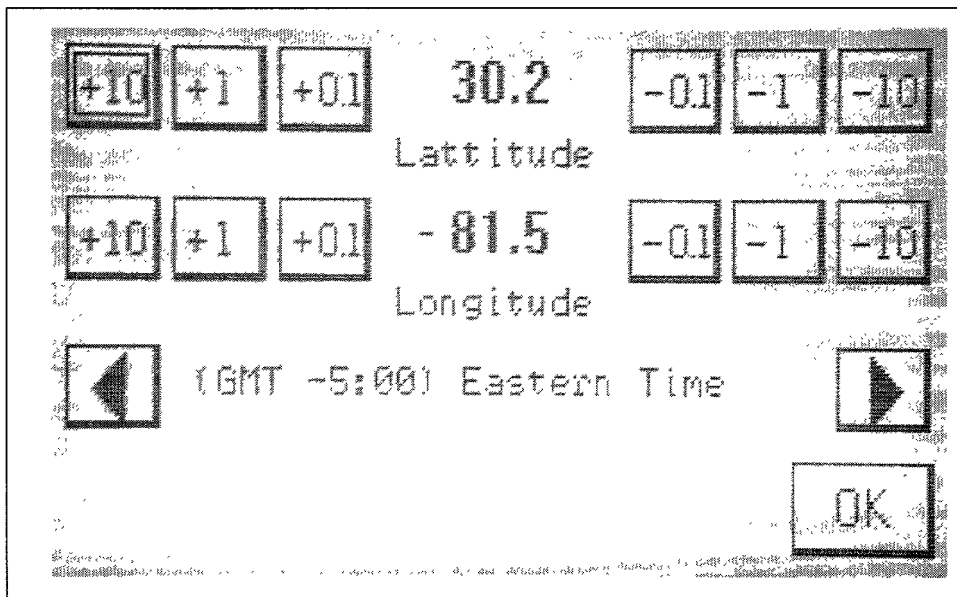


Figure 310



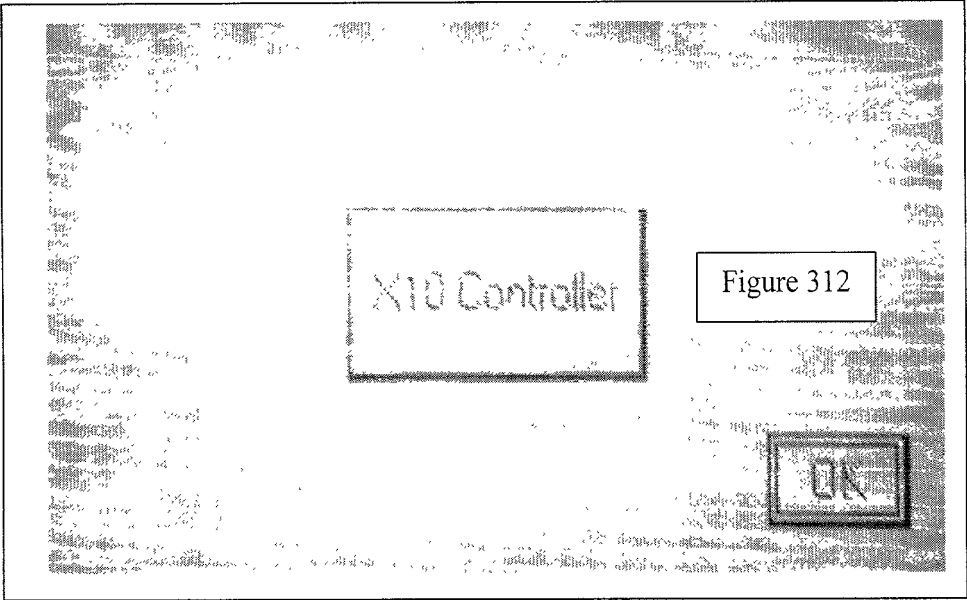


Figure 313

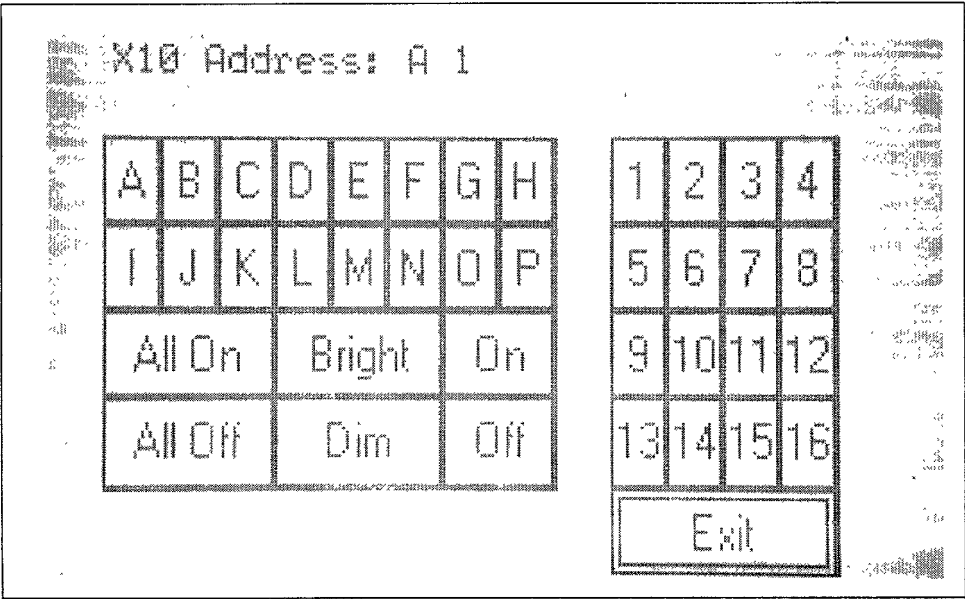


Figure 314

904

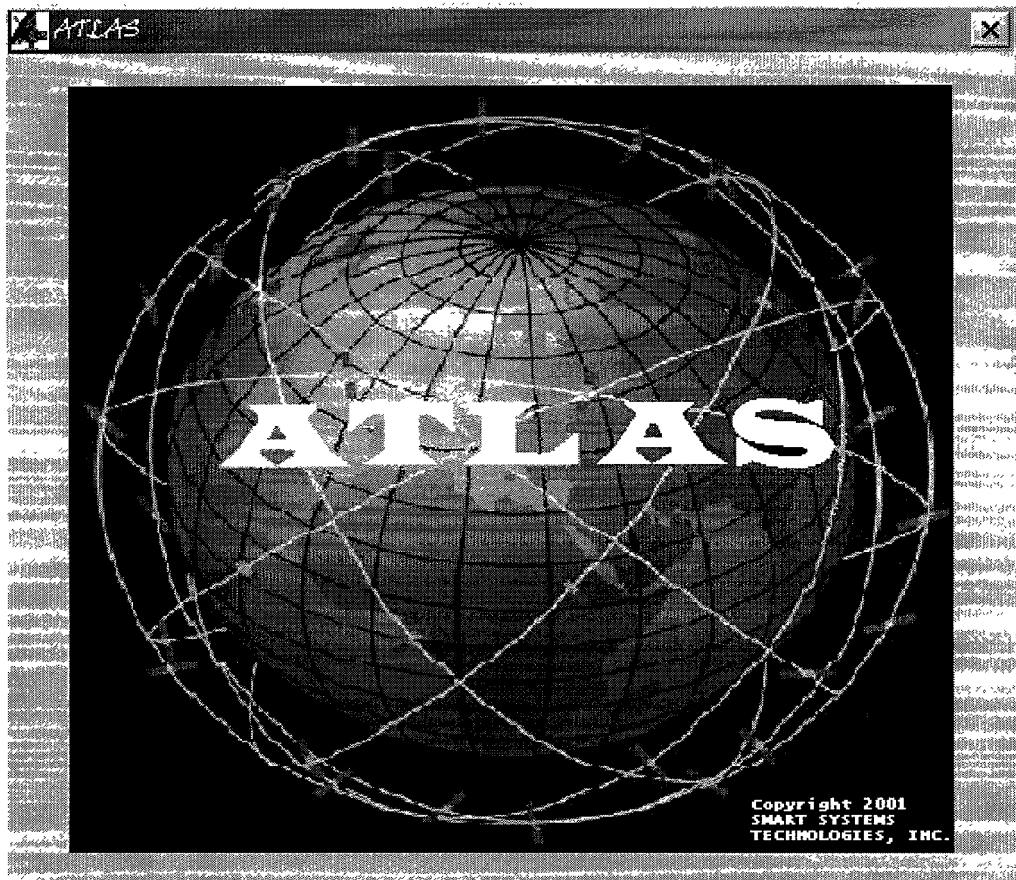


Figure 315

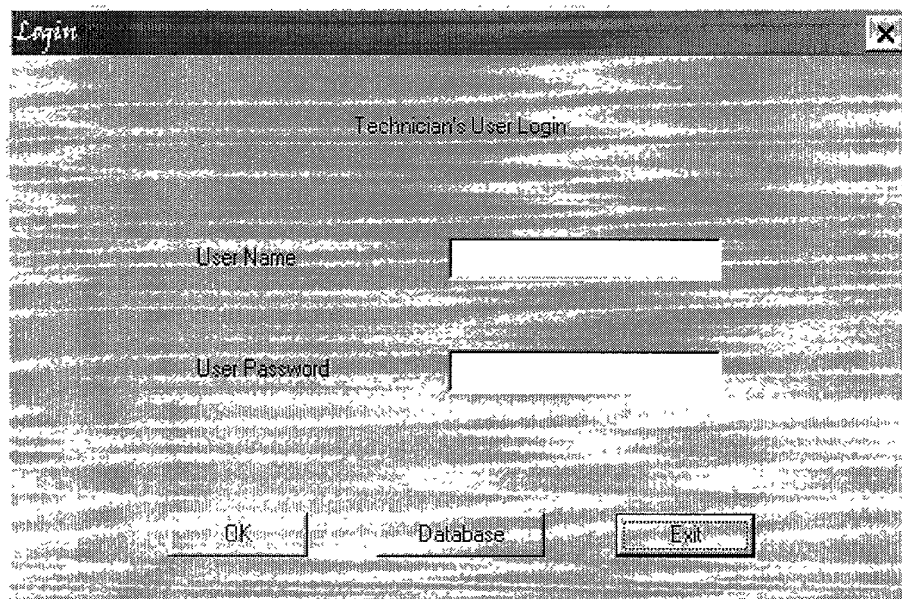


Figure 316

The screenshot shows a window titled "User Data Base" with a close button (X) in the top right corner. The window contains three main sections: "Modify Super User", "Add User", and "Delete User".

- Modify Super User:** Contains three input fields labeled "Super User Name", "Super User Password", and "Re Enter Password". Below these fields is a "Modify" button.
- Add User:** Contains three input fields labeled "User Name", "User Password", and "Re Enter Password". Below these fields is an "Add" button.
- Delete User:** Contains one input field labeled "User Name" and a "Delete" button.

At the bottom right of the window is an "Exit" button.

Figure 317

The screenshot shows a window titled "Customer Access" with a close button (X) in the top right corner. The window contains four input fields, each with a dropdown arrow on the right:

- Customer Name:** Displays "Mike Manning".
- Customer Phone #:** Displays "3526259".
- Customer Address:** Displays "2304 Springflower Pl.".
- Problem Case:** Displays "2304 Springflower Pl.".

At the bottom of the window are four buttons: "Database", "Dial Customer", "Open File", and "Exit".

Figure 318

906

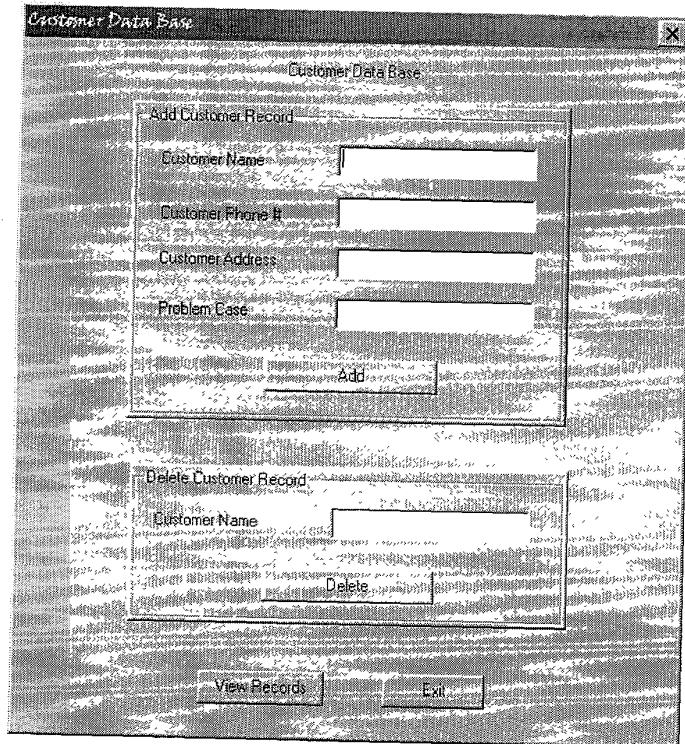


Figure 319

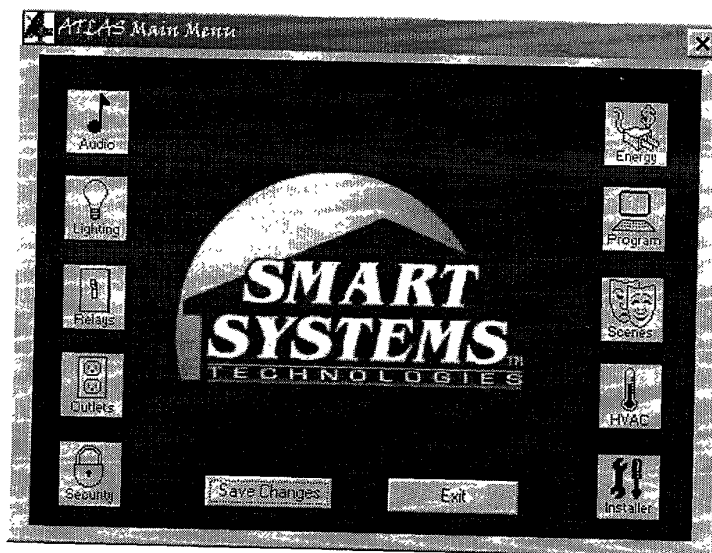


Figure 320

907

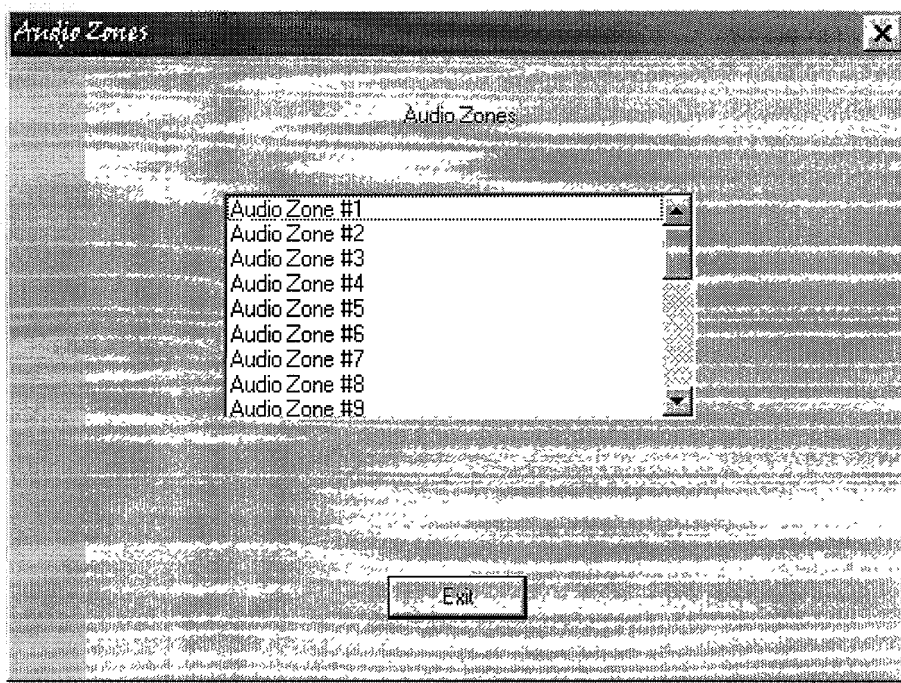


Figure 321

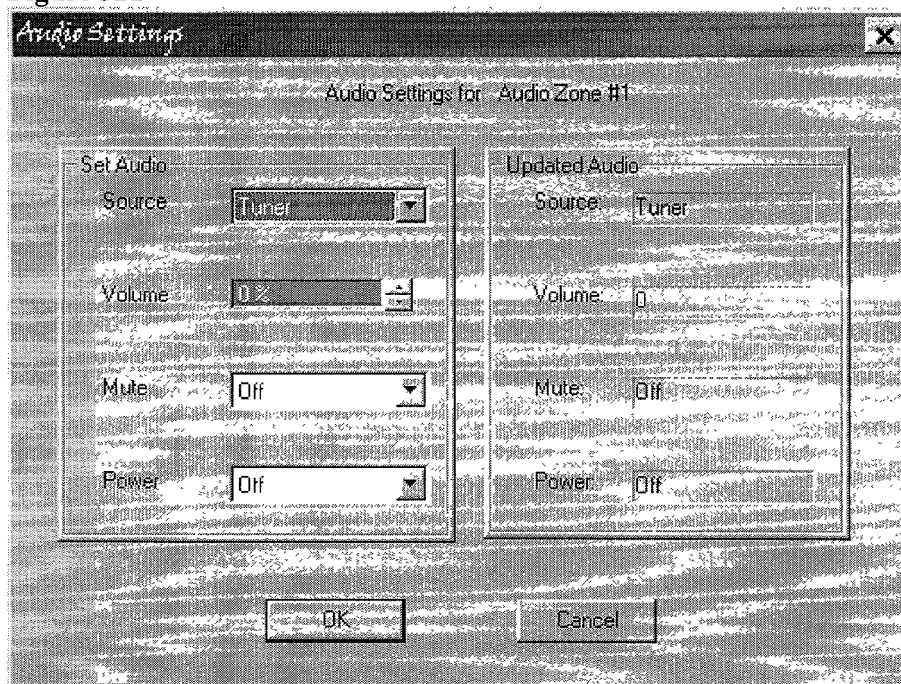


Figure 322

908

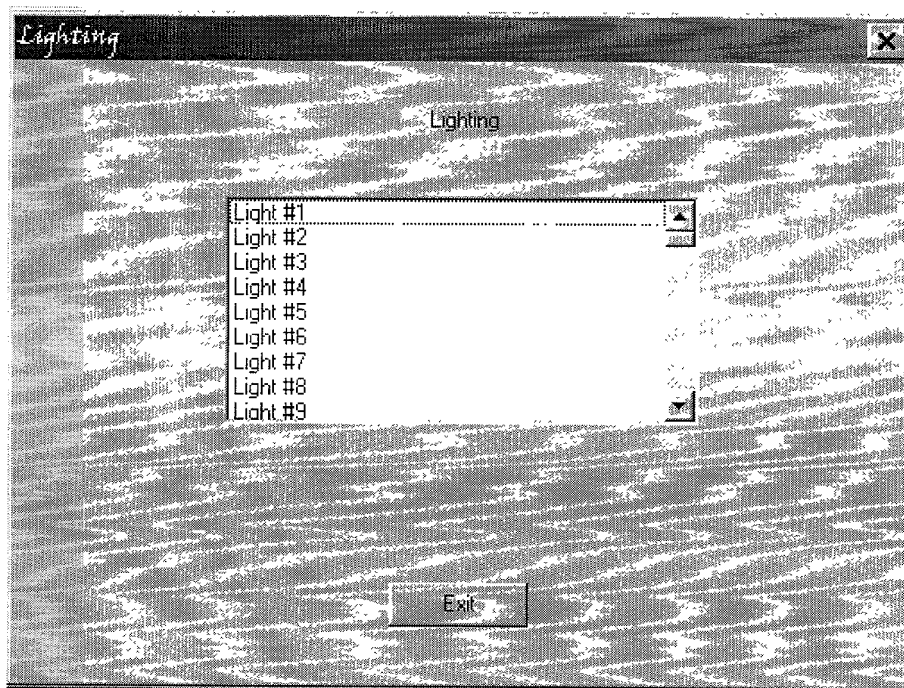


Figure 323

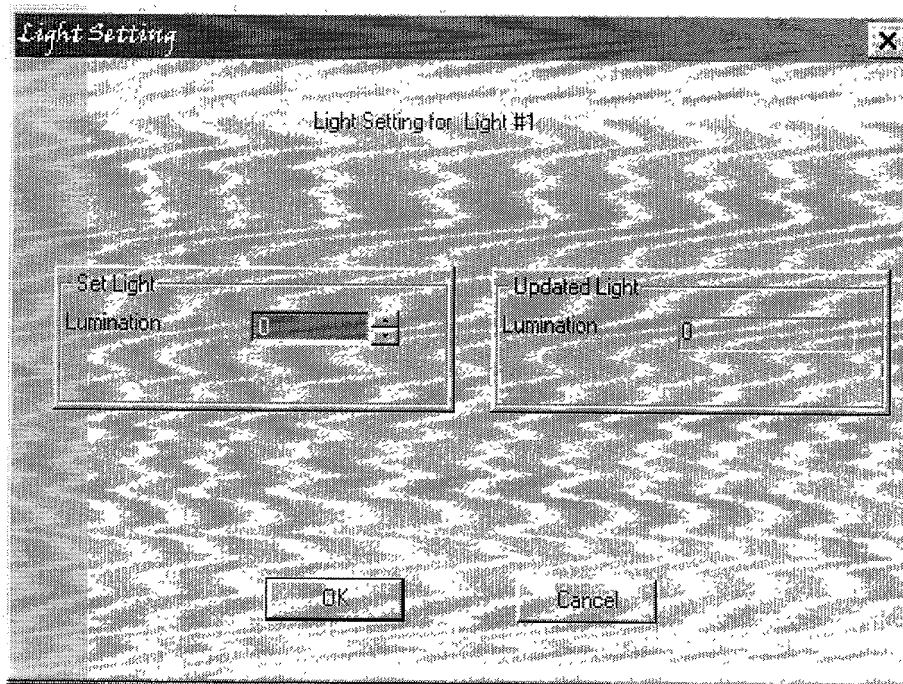


Figure 324

909

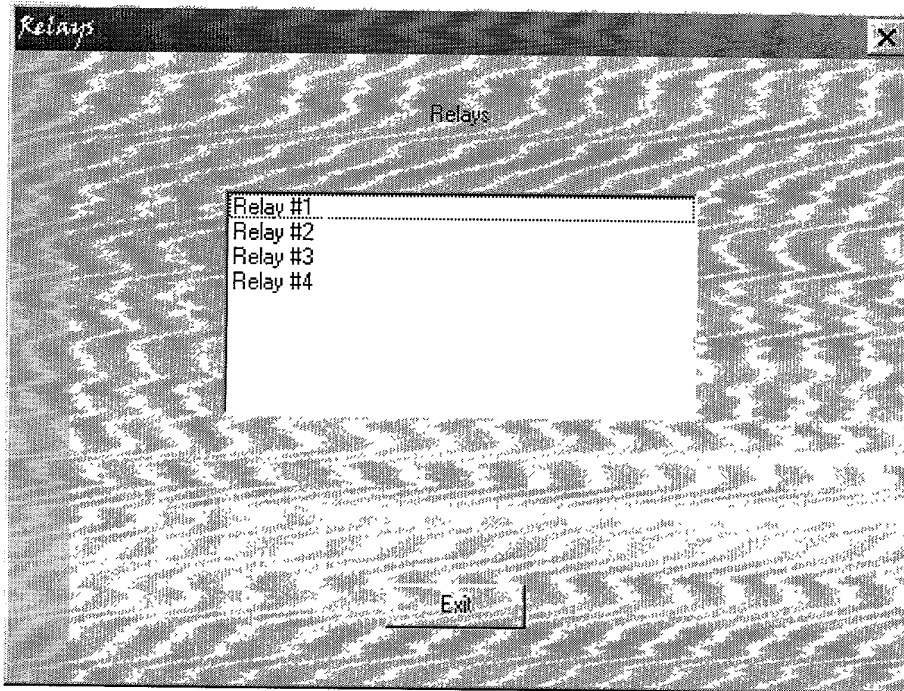


Figure 325

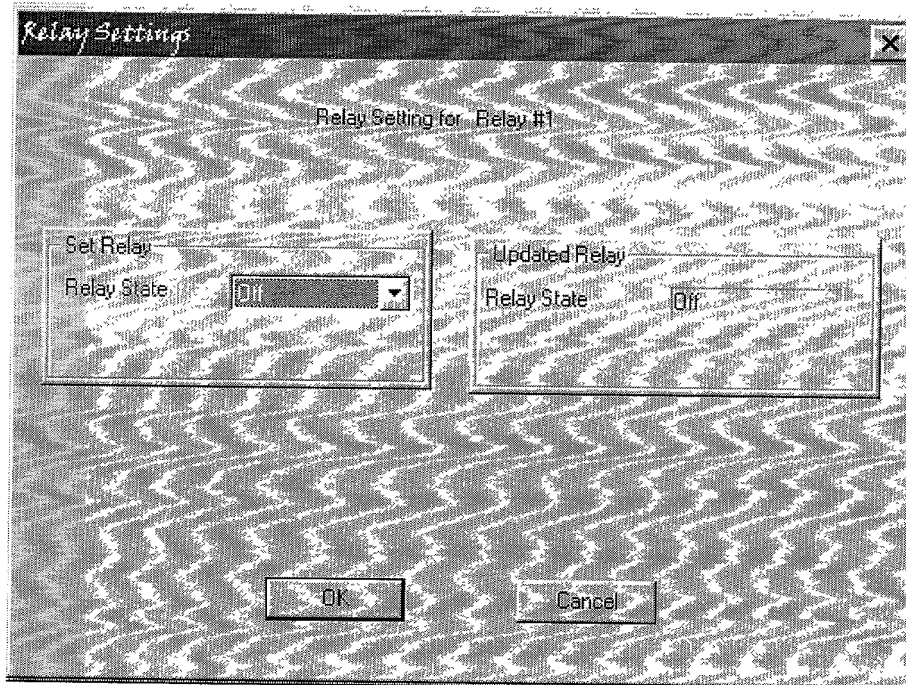


Figure 326

910

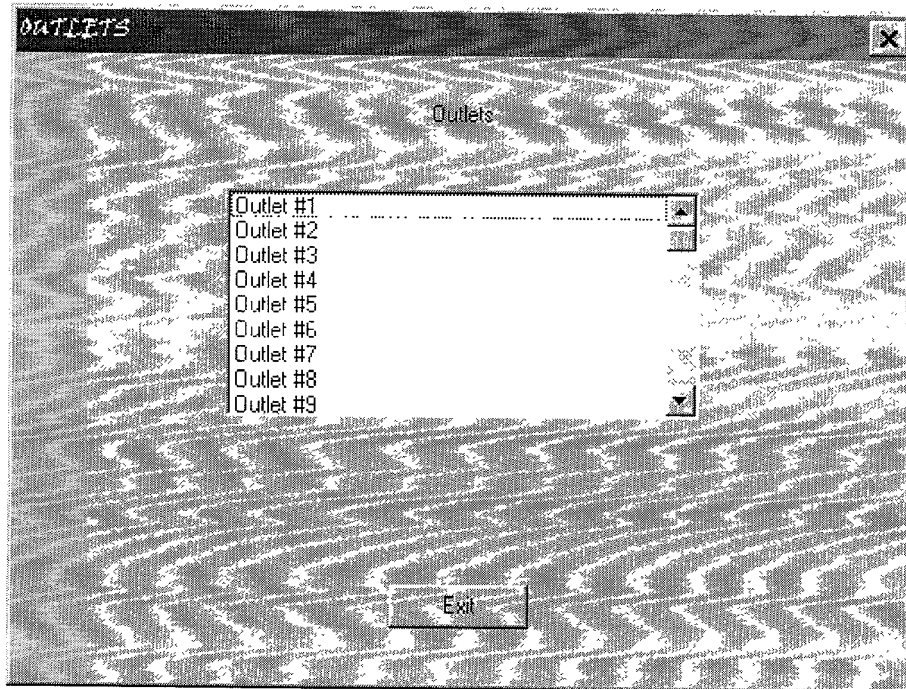


Figure 327

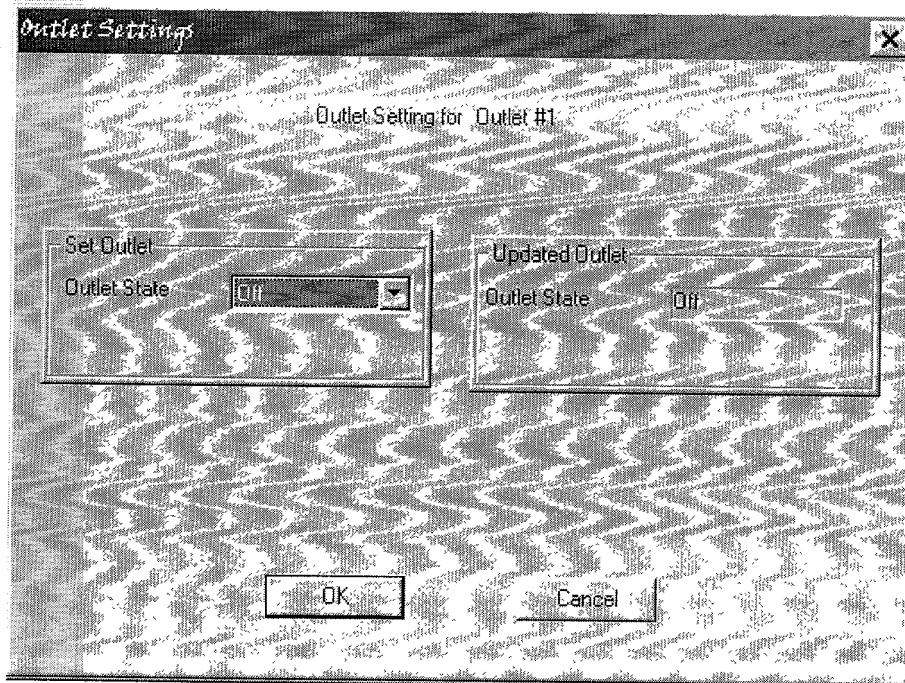


Figure 328

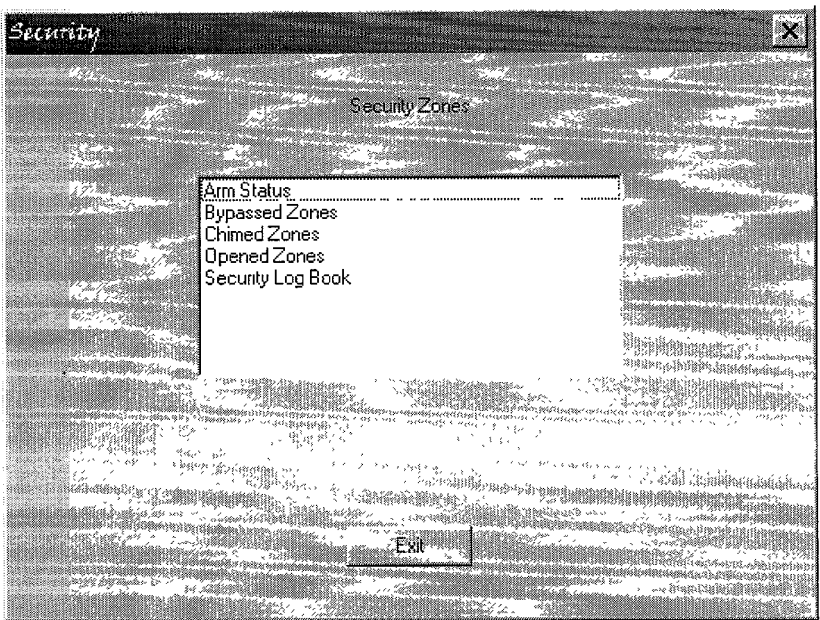


Figure 329

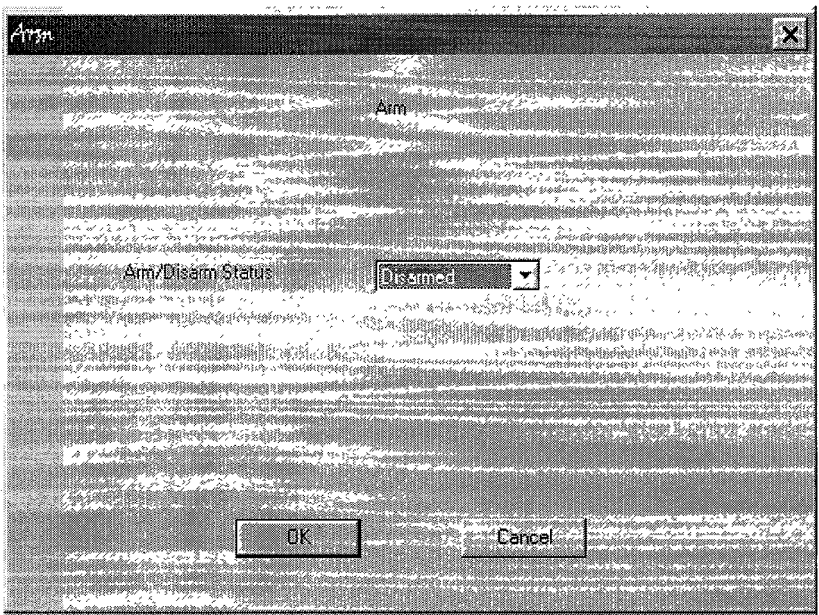


Figure 330

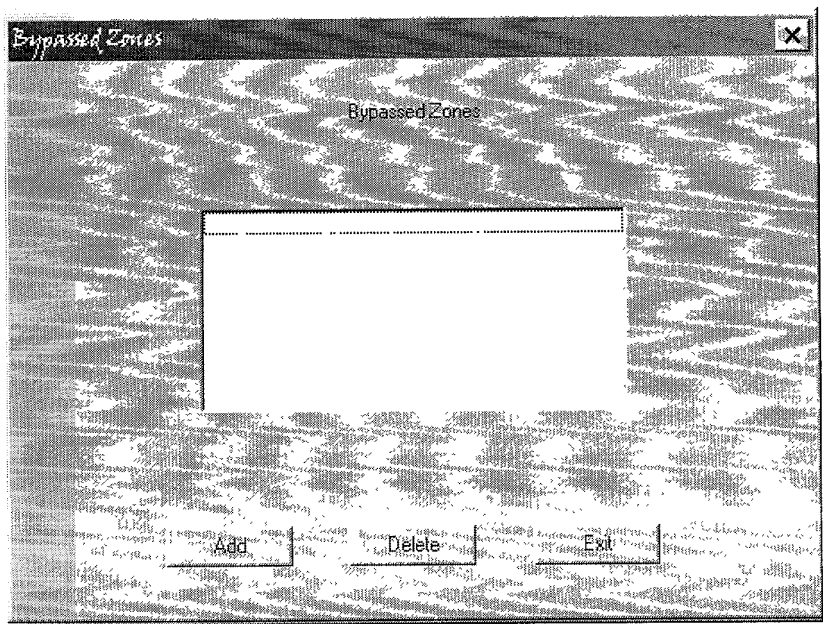


Figure 331

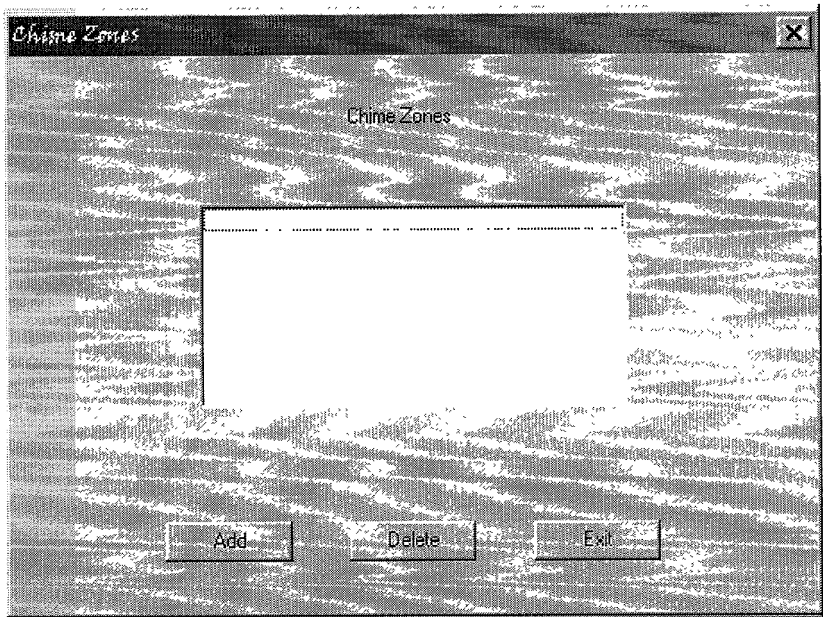


Figure 332

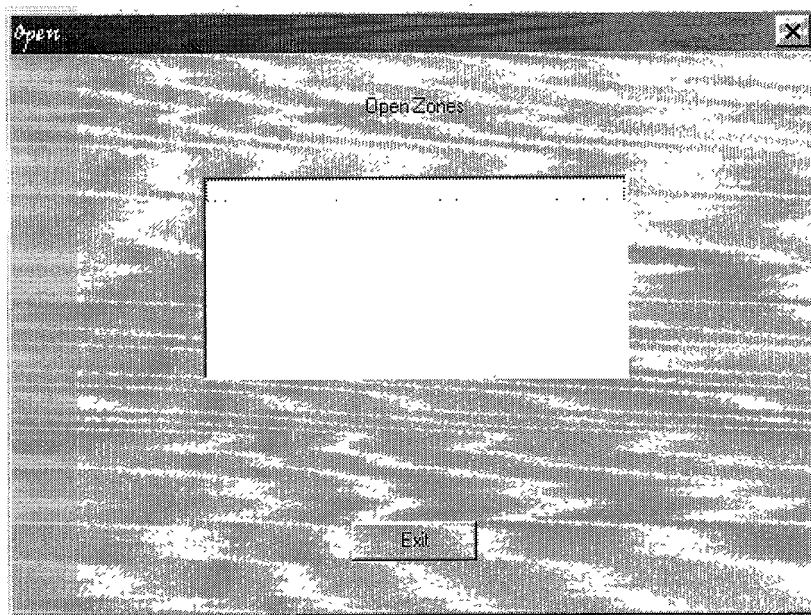


Figure 333

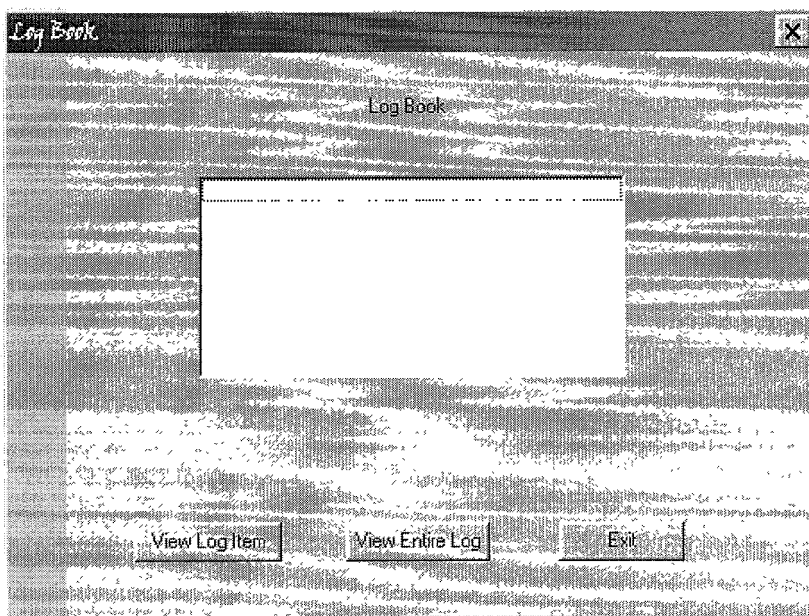


Figure 334

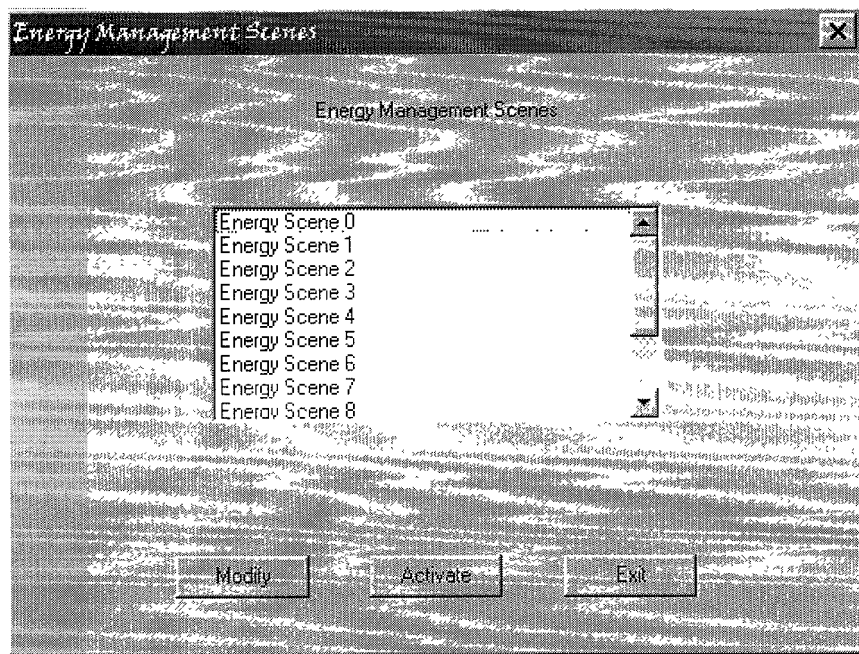


Figure 335

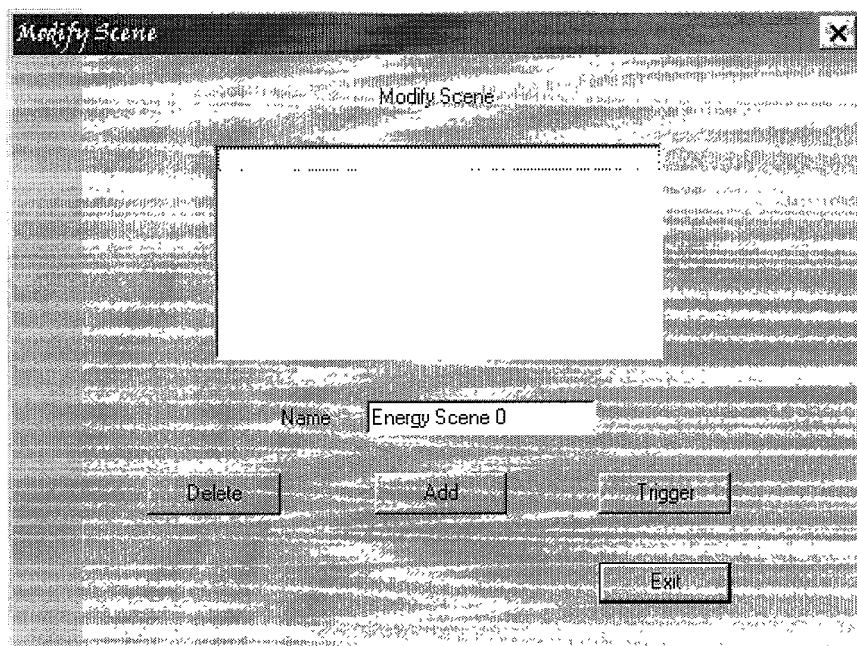


Figure 336

The 'Trigger' dialog box contains the following fields and controls:

- X10 Command:** A dropdown menu and a text input field.
- Smart Key:** A dropdown menu showing 'Name 4'.
- Time (hour min am/pm):** A time selection field showing '12:00:00 AM' and a 'SET' button.
- Security Zone:** A dropdown menu.
- Condition #1:** A dropdown menu showing 'None'.
- Condition #2:** A dropdown menu showing 'None'.
- Condition #3:** A dropdown menu showing 'None'.
- Buttons:** 'OK' and 'Cancel' buttons at the bottom.

Figure 337

The 'User Programming' dialog box contains the following elements:

- Options:** A list box containing 'Options', 'Setup', and 'Schedules'.
- Buttons:** 'OK' and 'Cancel' buttons at the bottom.

Figure 338

916

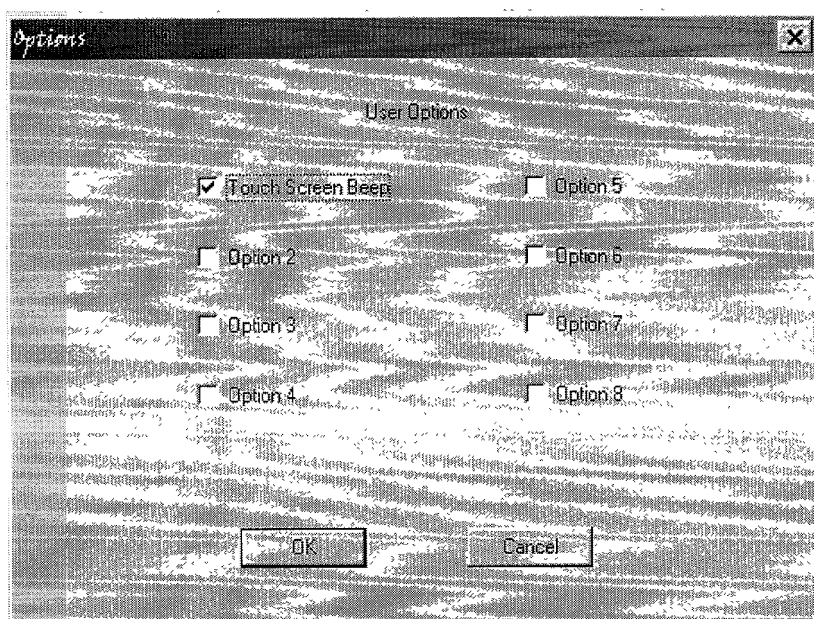


Figure 339

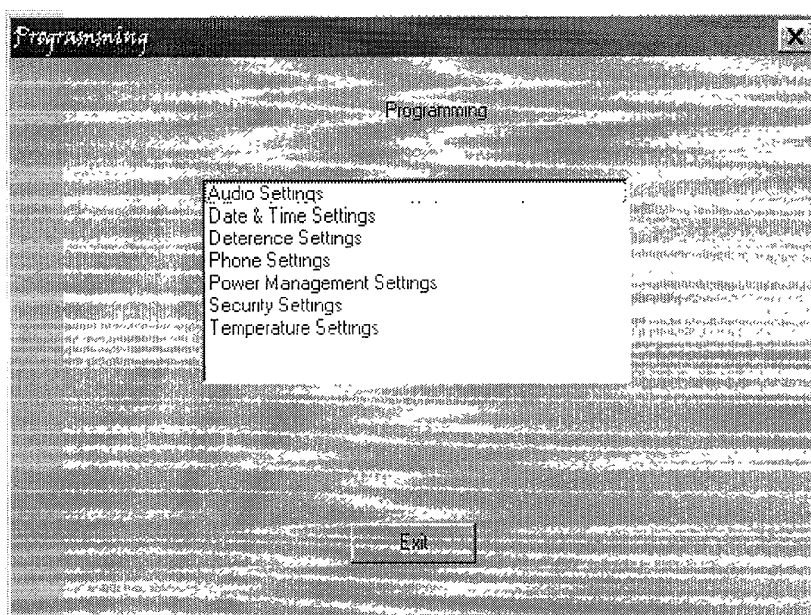


Figure 340

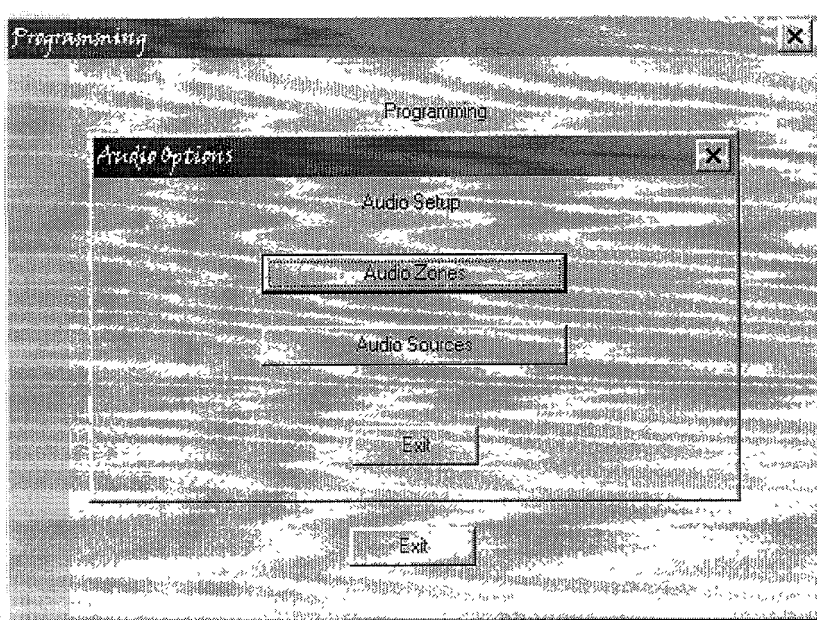


Figure 341

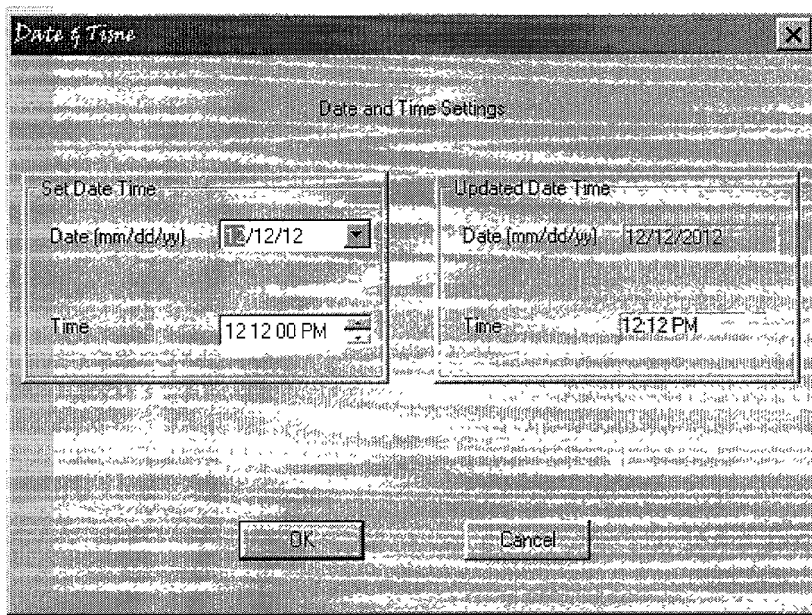


Figure 342

918

Phone Settings

Phone Settings

Options	Emergency
Rings Before Answer: 5	Police:
Answering Machine: No	Fire:
Detect Dial Tone: No	Medical:

Local Number

Description: Home Number:

Contact # 1	Contact # 2
Name: Contact 0	Name: Contact 1
Number:	Number:
☐ Police ☐ Fire ☐ Medical	☐ Police ☐ Fire ☐ Medical

Contact # 3	Contact # 4
Name: Contact 2	Name: Contact 3
Number:	Number:
☐ Police ☐ Fire ☐ Medical	☐ Police ☐ Fire ☐ Medical

OK Cancel

Figure 343

919

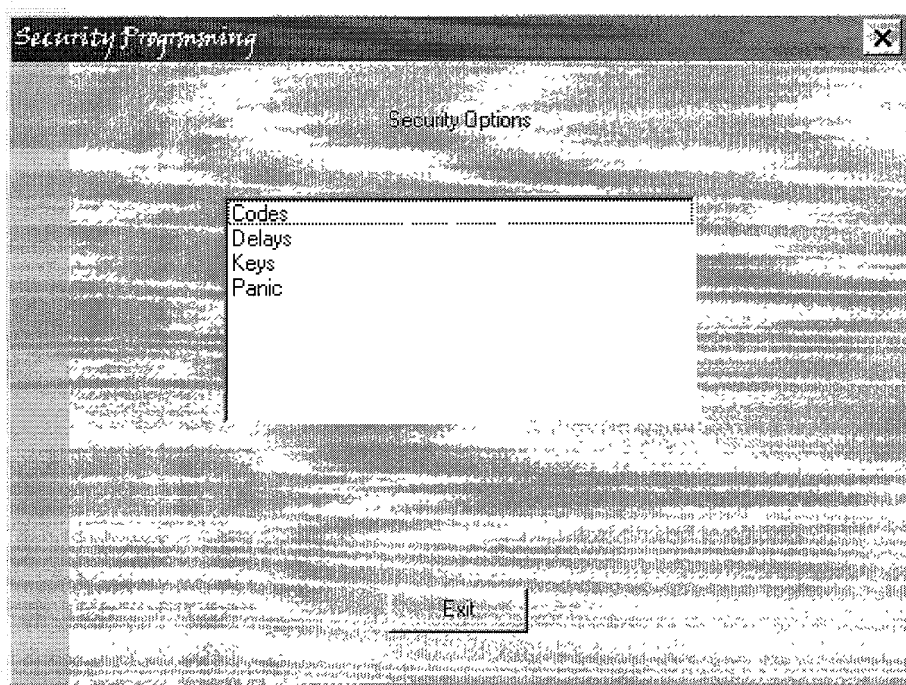


Figure 344

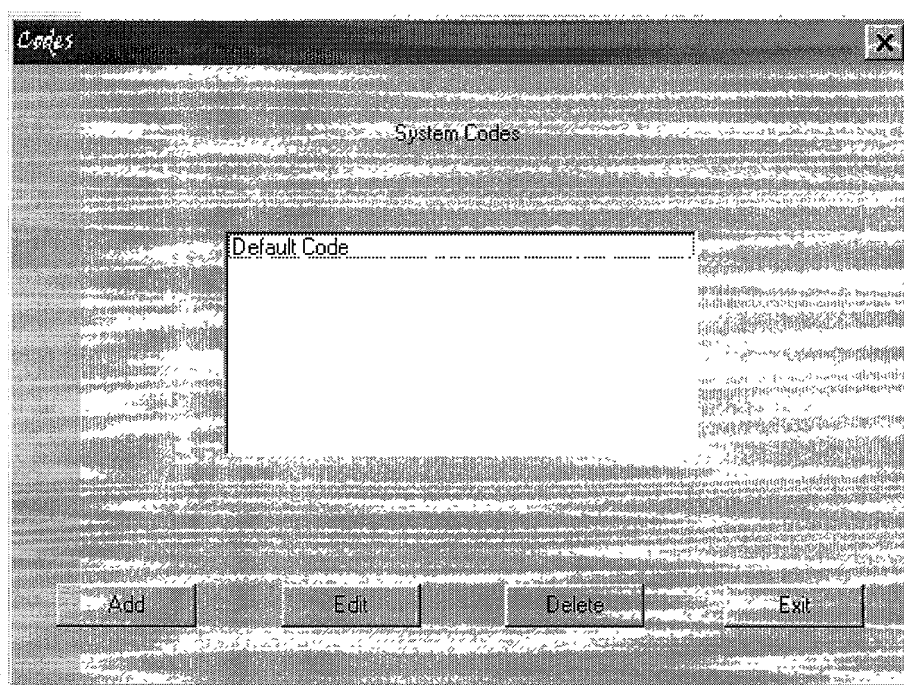


Figure 345

920

The screenshot shows a dialog box titled "Edit Code" with a close button (X) in the top right corner. Below the title bar, the text "Edit System Code" is centered. The dialog contains three input fields: "Name" with the value "Default Code", "Code" with the value "12345", and "Code Types" with a dropdown menu showing "Master Access". At the bottom, there are two buttons: "OK" and "Cancel".

Figure 346

The screenshot shows a dialog box titled "Add Code" with a close button (X) in the top right corner. Below the title bar, the text "Add System Code" is centered. The dialog contains three input fields: "Name" with the value "Default", "Code" with the value "12345", and "Code Types" with a dropdown menu. At the bottom, there are two buttons: "OK" and "Cancel".

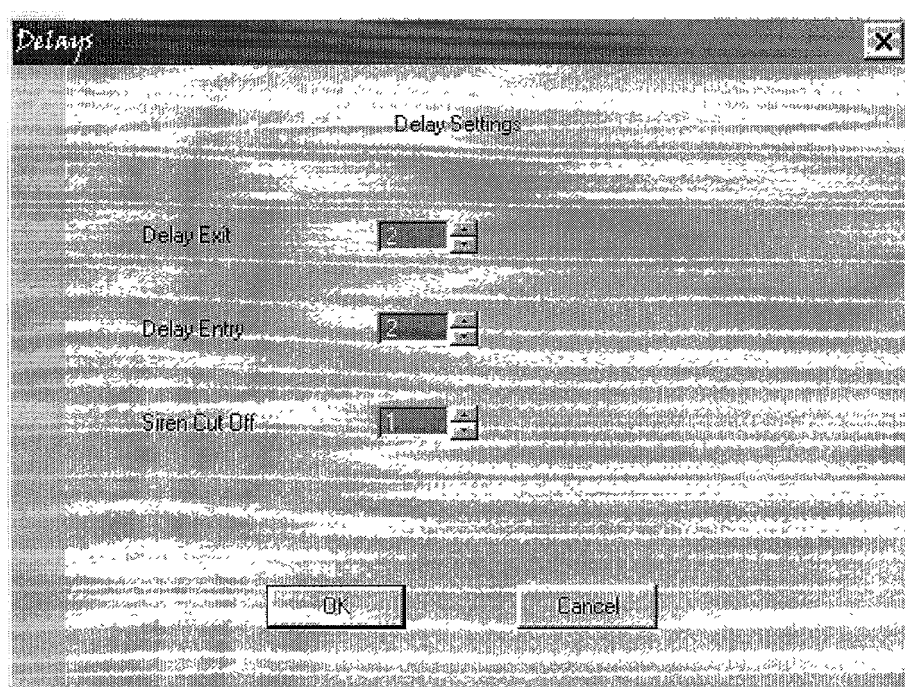


Figure 348

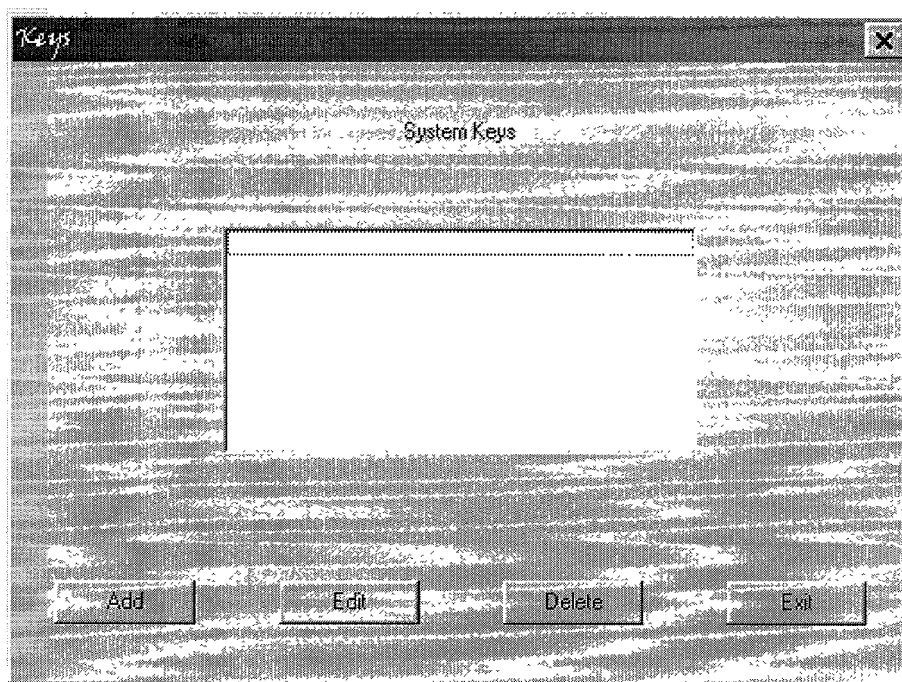


Figure 349

The screenshot shows a dialog box titled "Add Key" with a close button (X) in the top right corner. The dialog contains the following fields and controls:

- Add System Key**: A label at the top of the dialog.
- Name**: A text input field containing the text "Current Name".
- Key ID Number**: A text input field containing the text "12 digit ID".
- Valid**: A dropdown menu currently set to "Always".
- Expires**: A checkbox that is currently unchecked.
- OK** and **Cancel**: Two buttons at the bottom of the dialog.

Figure 350

923

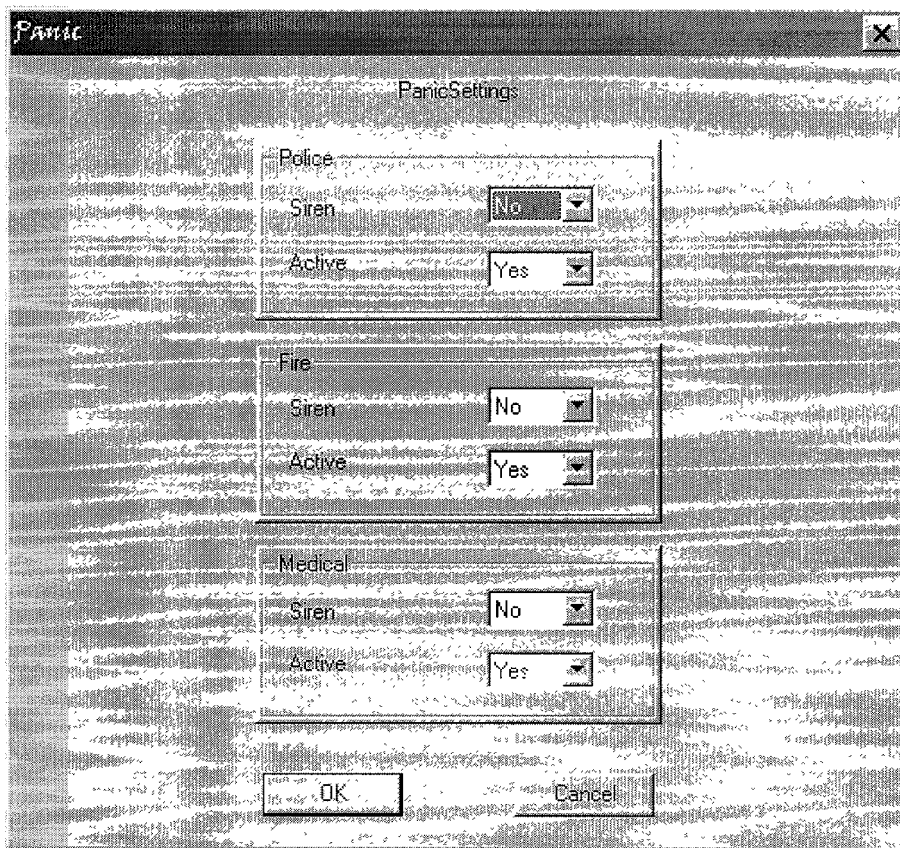


Figure 351

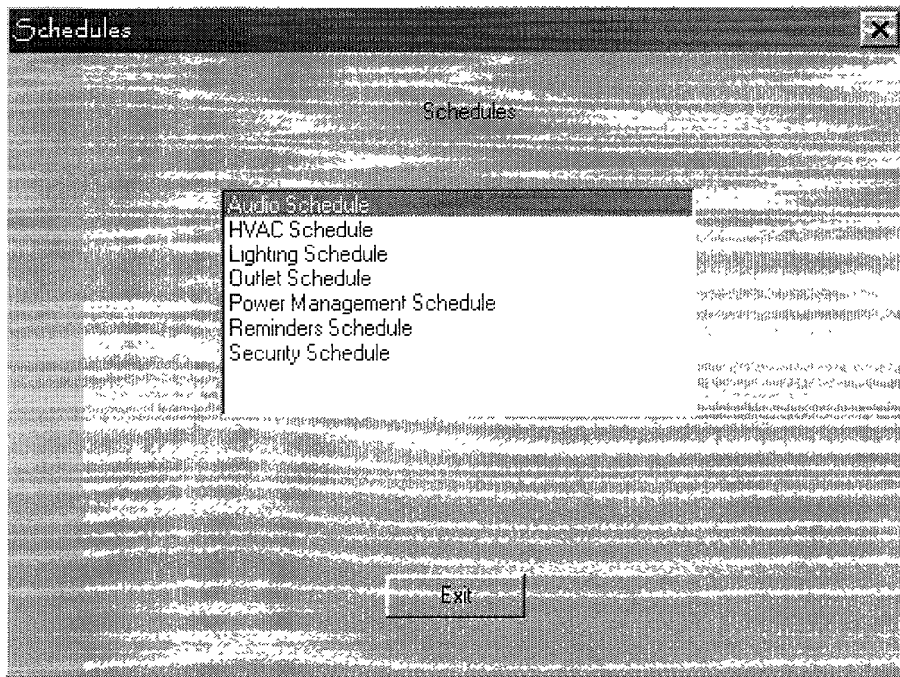


Figure 352

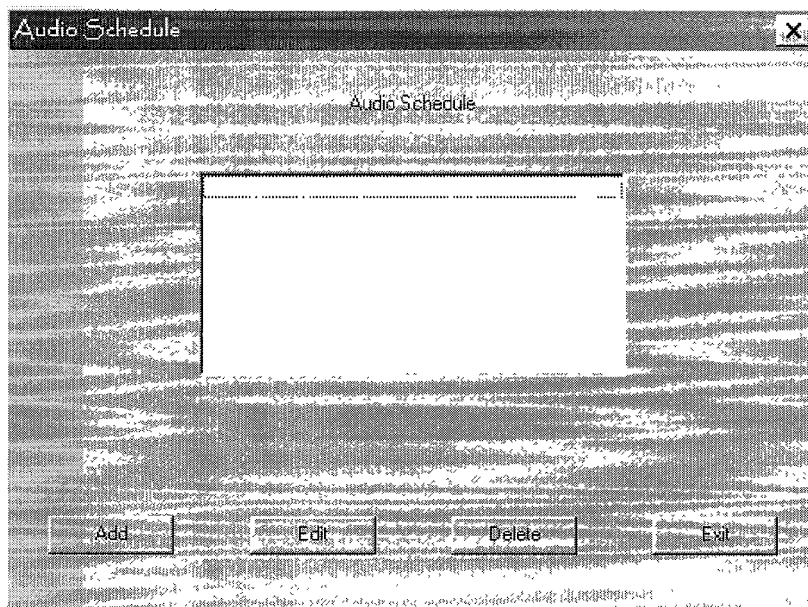


Figure 353

925

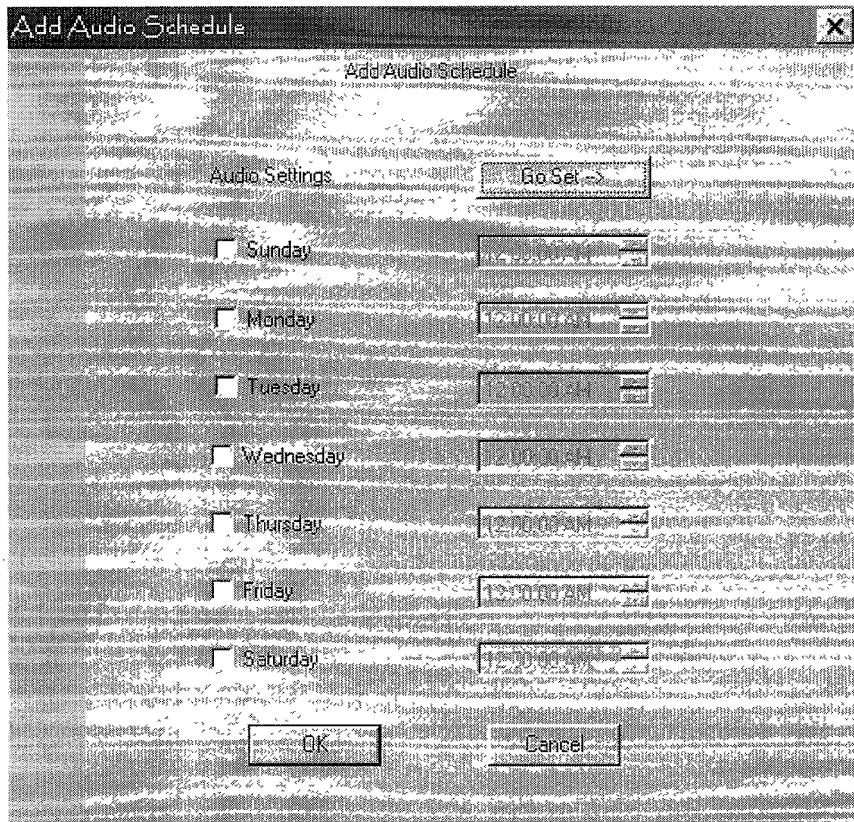


Figure 354

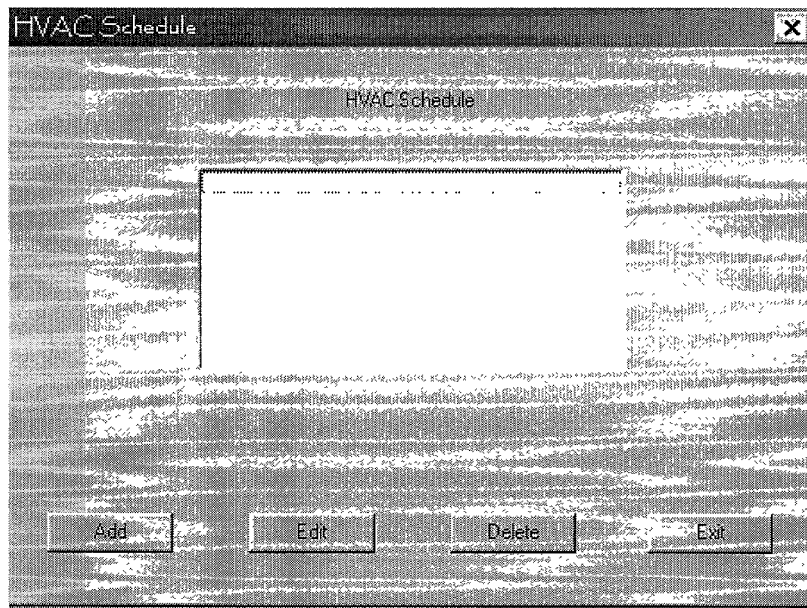


Figure 355

926

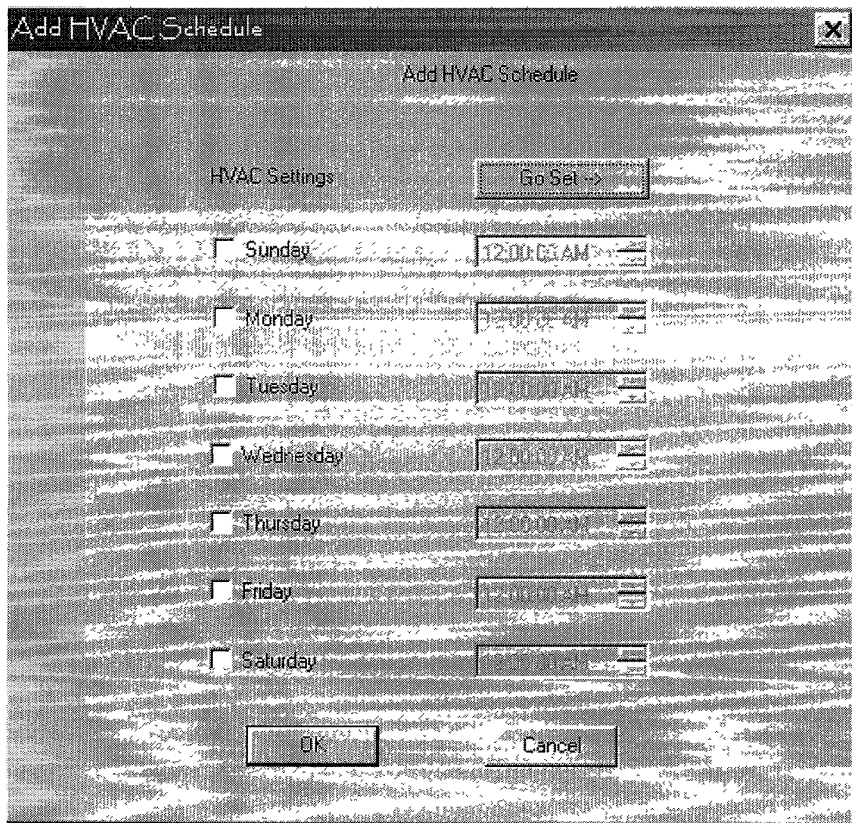


Figure 356

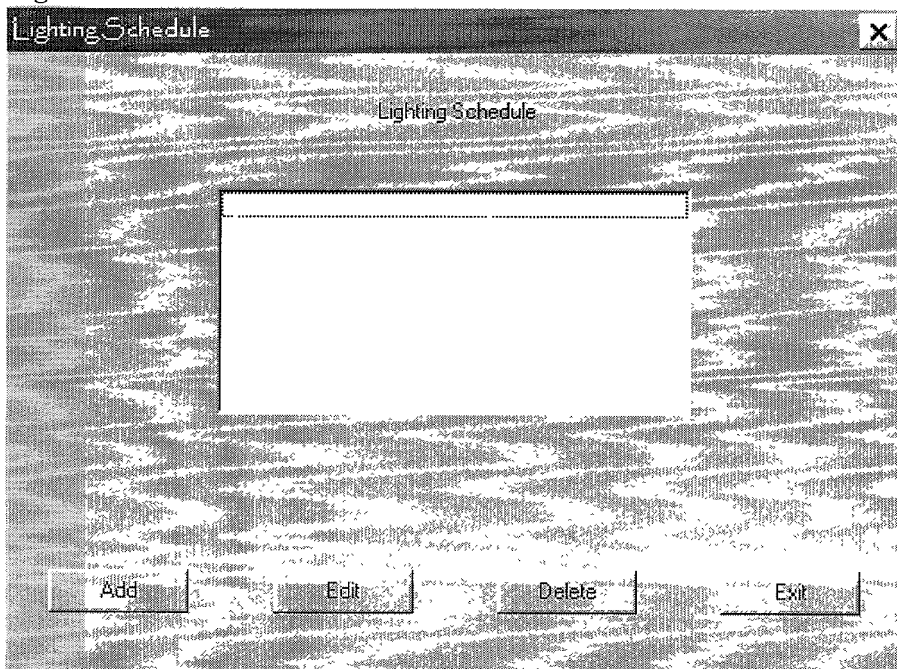


Figure 357

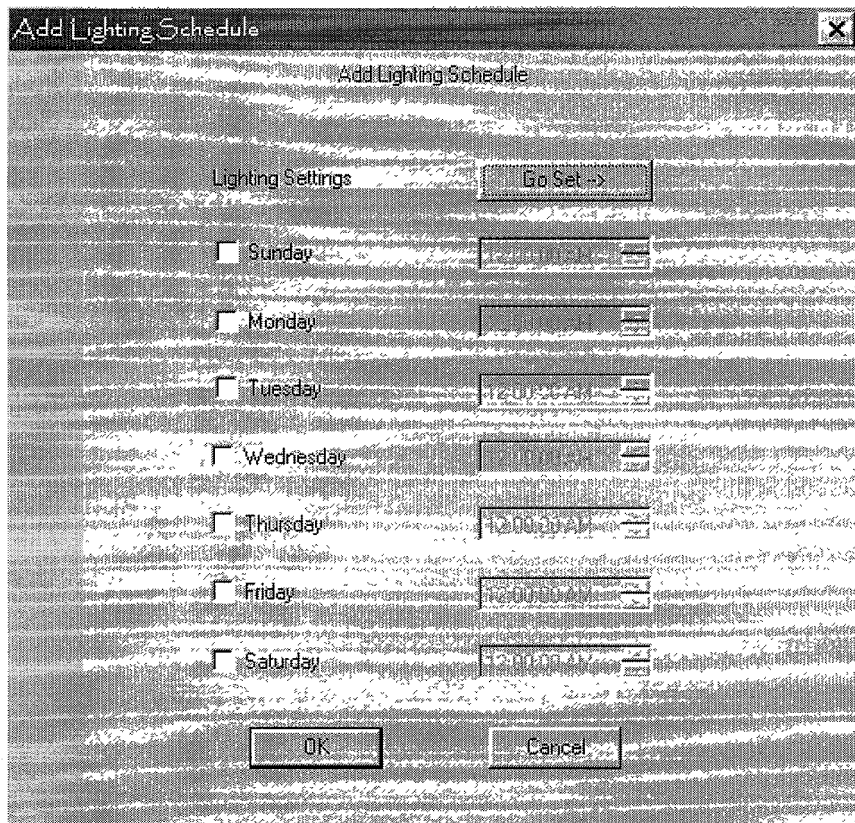


Figure 358

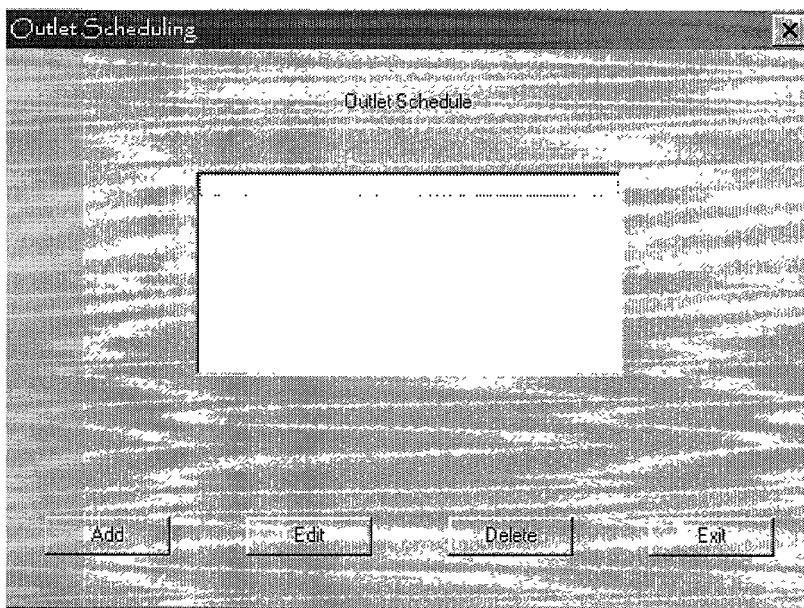


Figure 359

928

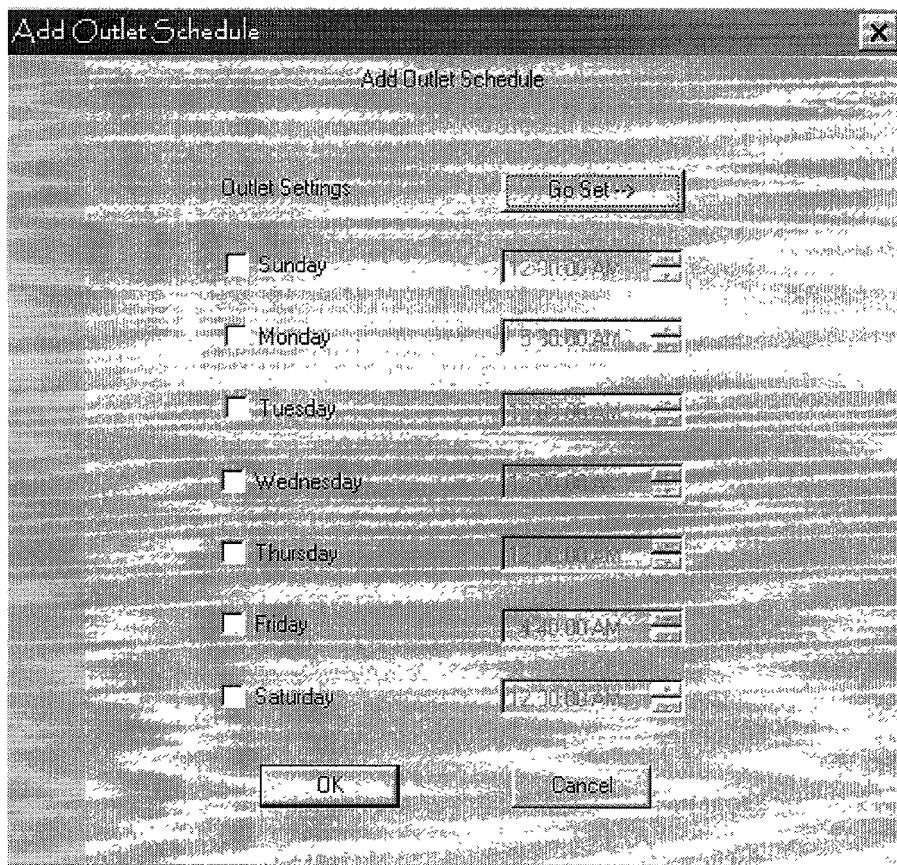


Figure 360

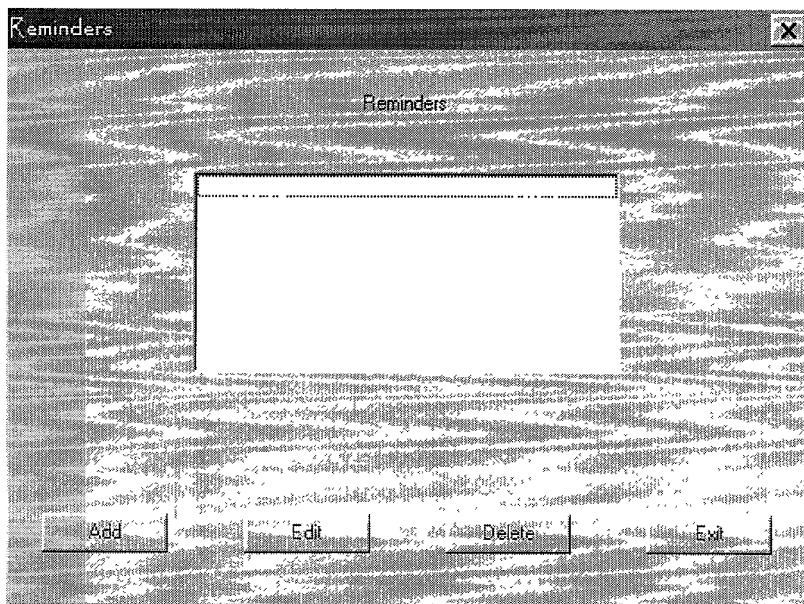


Figure 361

929

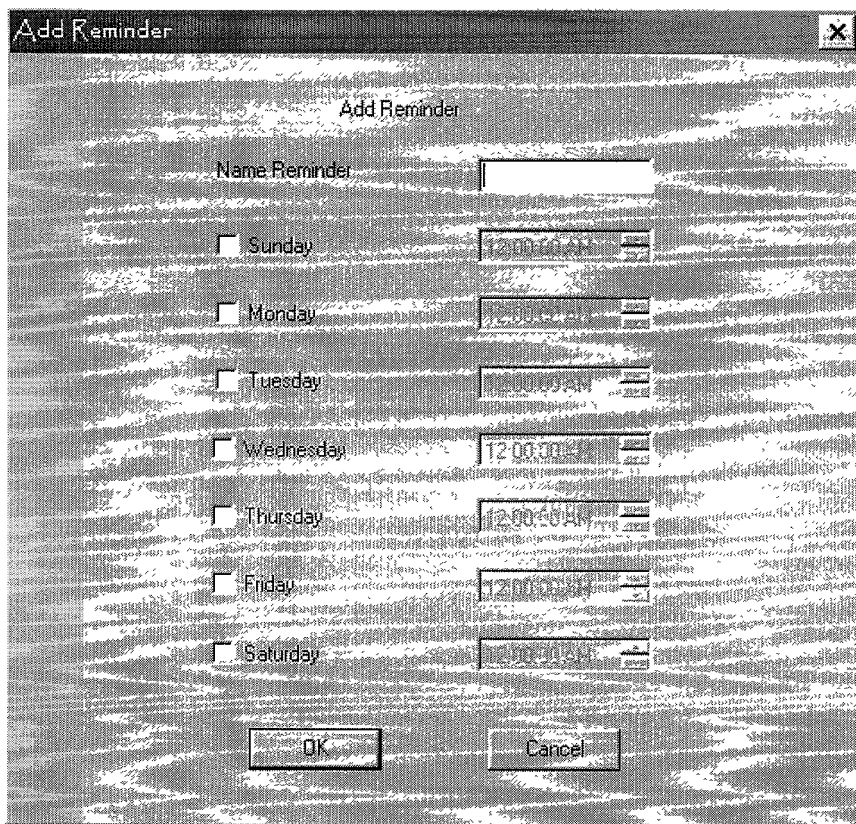


Figure 362

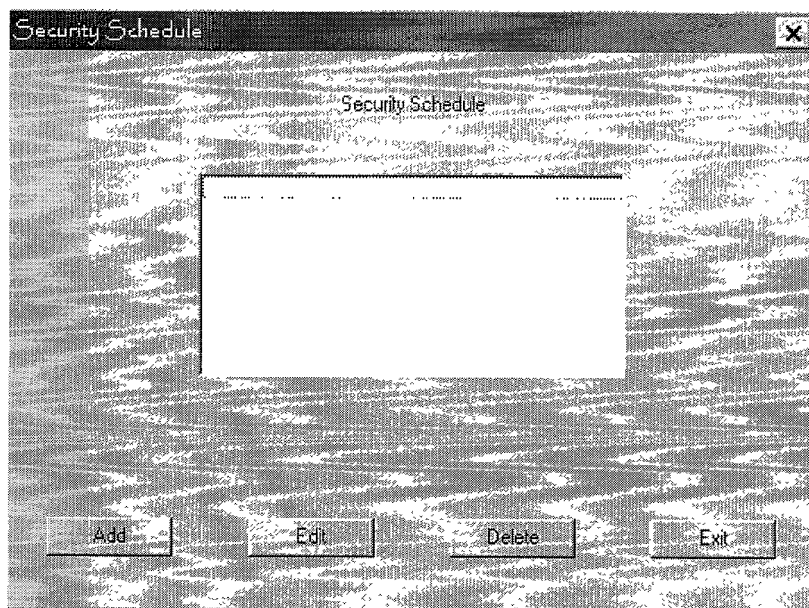


Figure 363

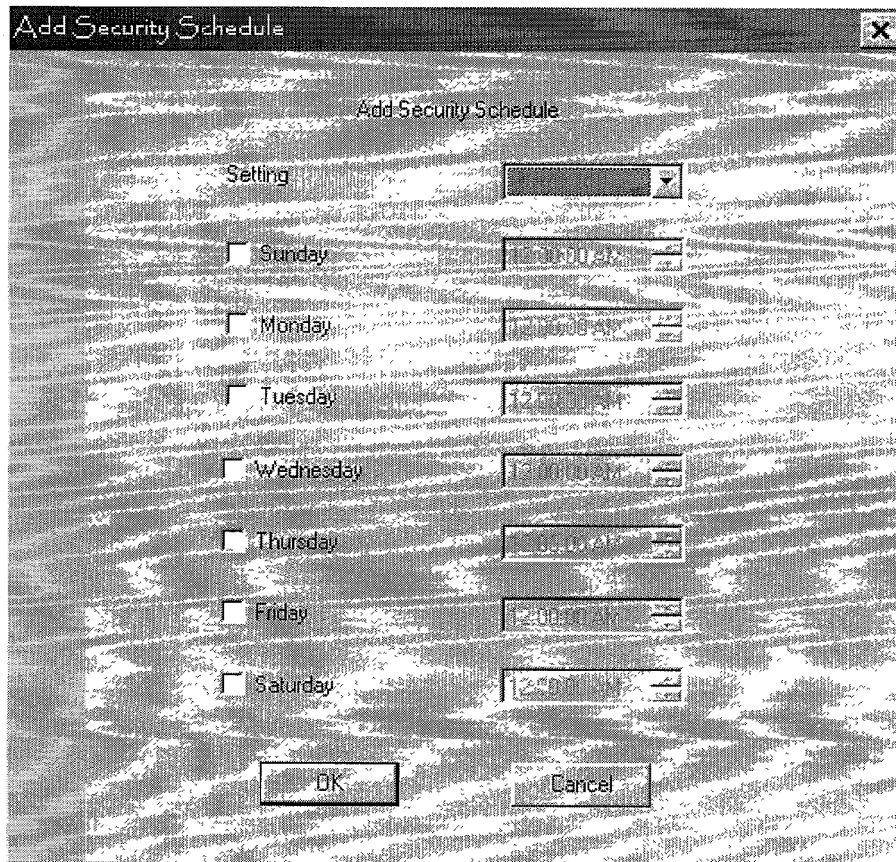


Figure 364

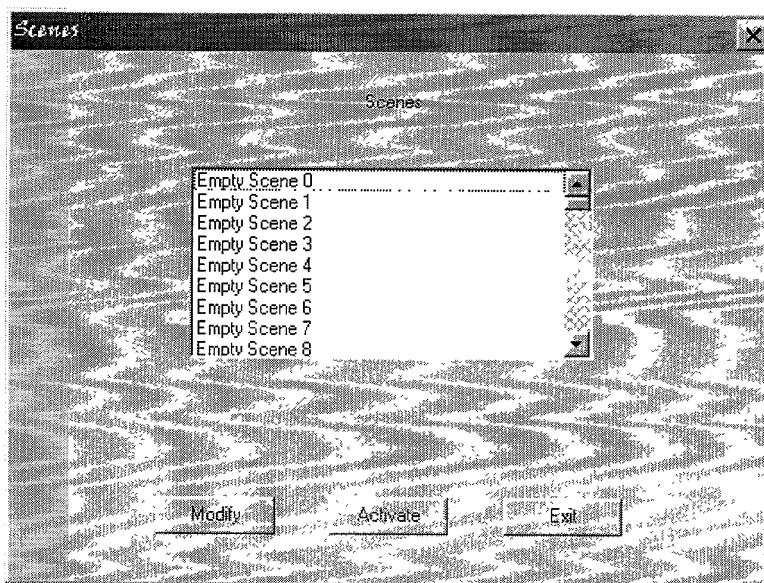


Figure 365

931

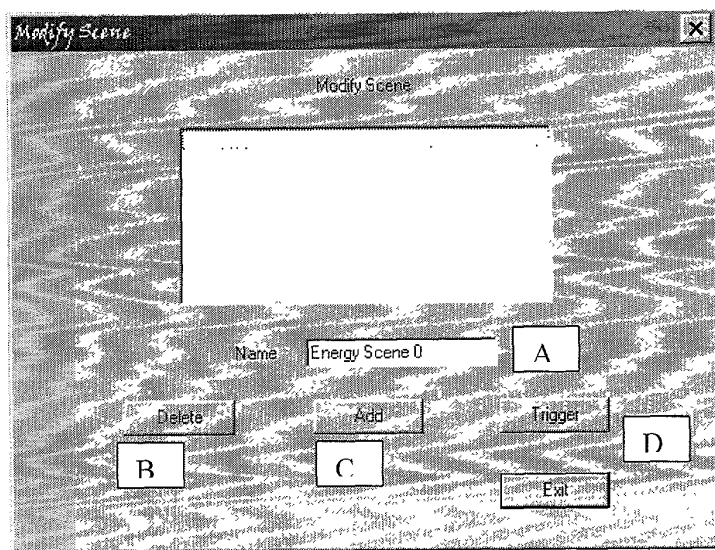


Figure 366

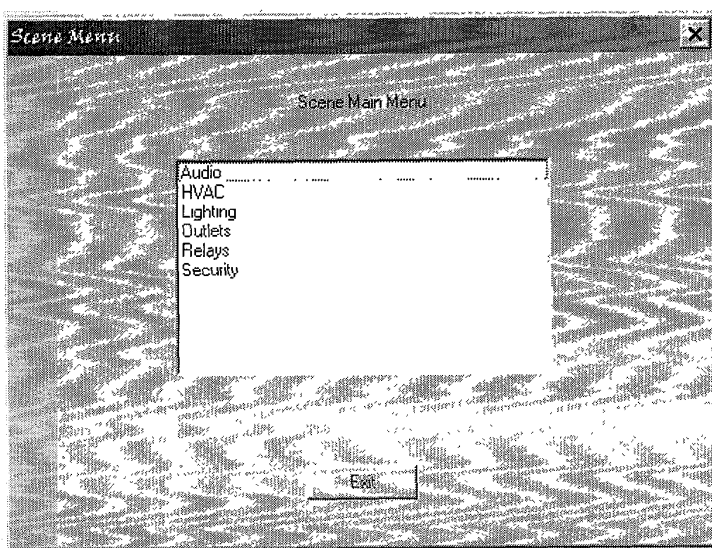


Figure 367

932

Trigger

X10 Command

Smart Key: Name 4

Time (hour min am/pm): 12 00.00 AM SET

Security Zone

Condition #1: None

Condition #2: None

Condition #3: None

OK Cancel

Figure 368

#HVAC Zones

HVAC Zones

HVAC Zone #1

HVAC Zone #2

Exit

Figure 369

933

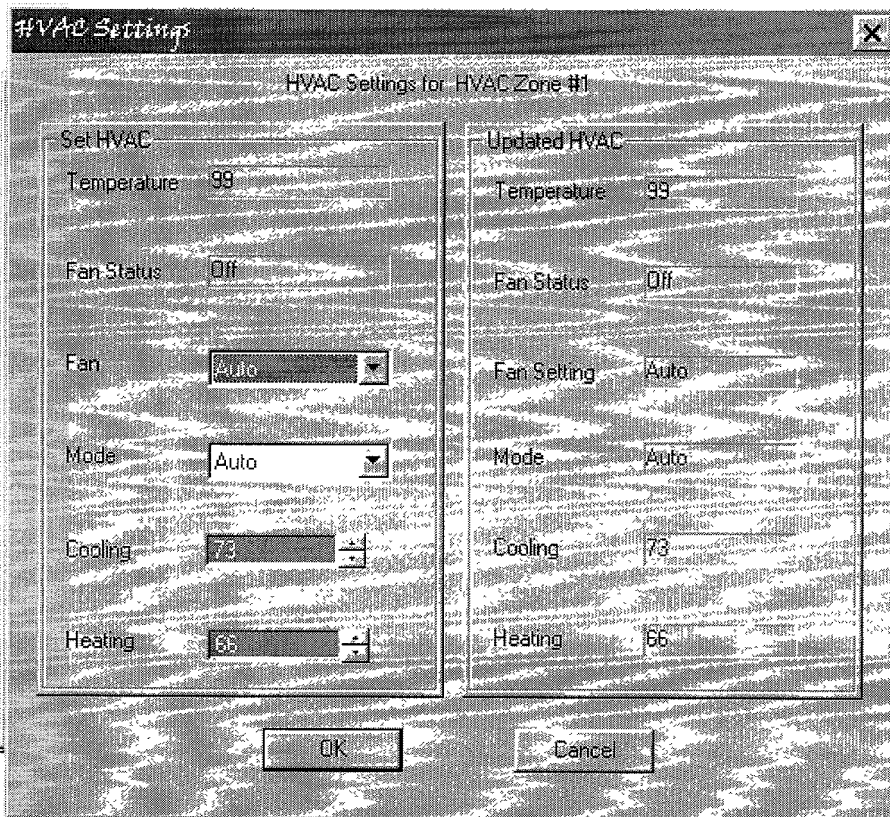


Figure 370

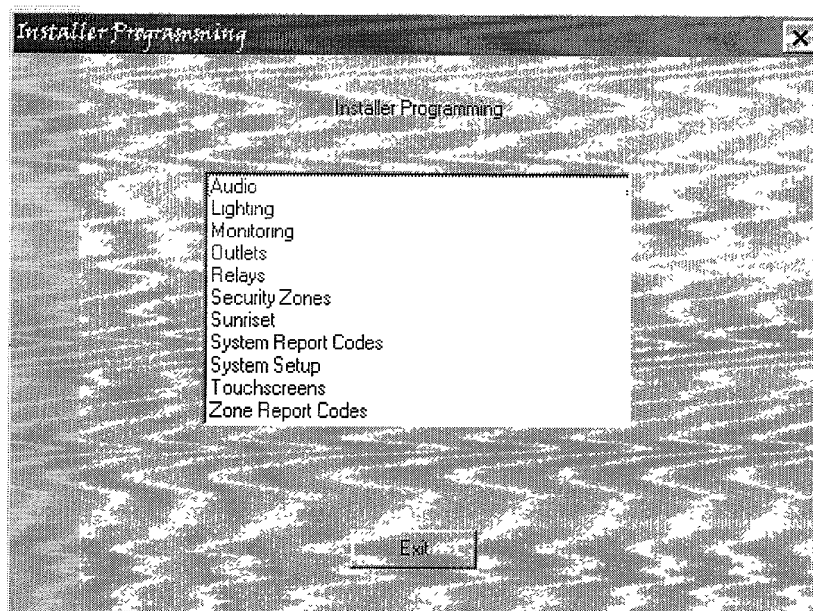


Figure 371

934

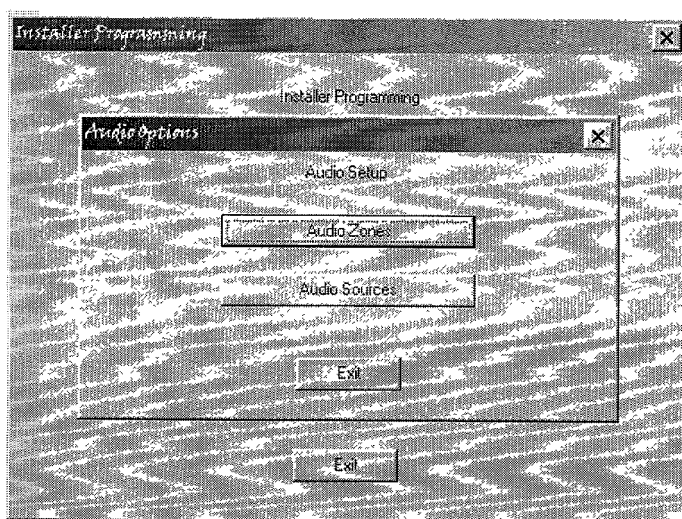


Figure 372

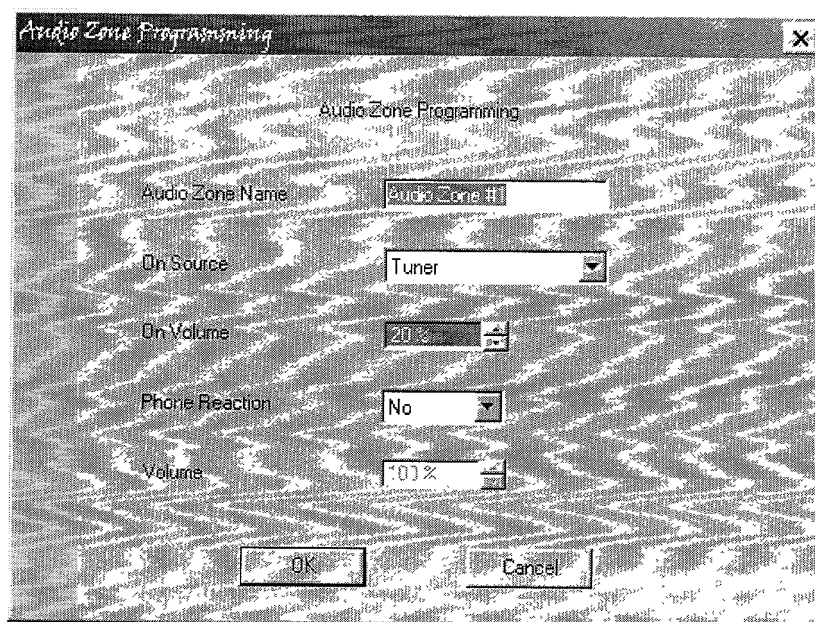


Figure 373

935

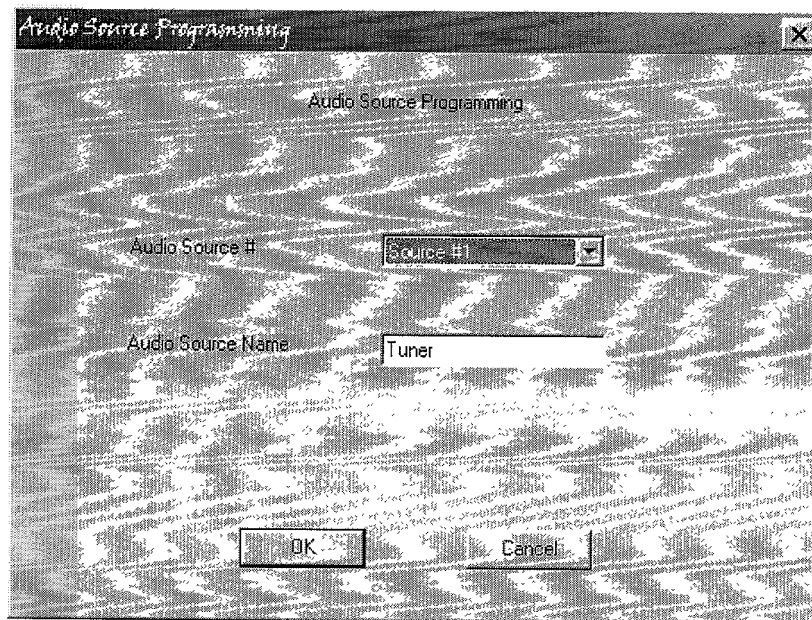


Figure 374

Lighting Programming

General

Name:

Light Type: Sunrise/Sunset:

X10 Addr: Fade:

Deterring Time: Max Brightness:

Event Reactions

Door Bell Flash: Intrusion Flash:

Phone Flash:

Zone Reactions

Security Zones:

From: To:

Dim: Duration:

Figure 375

Outlet Programming

Outlet Programming

General

Name:

Sunrise/Sunset:

X10 Addr:

Event Reactions

Door Bell Flash: Phone Flash:

Zone Reactions

Security Zones:

From: To:

State: Duration:

Figure 376

938

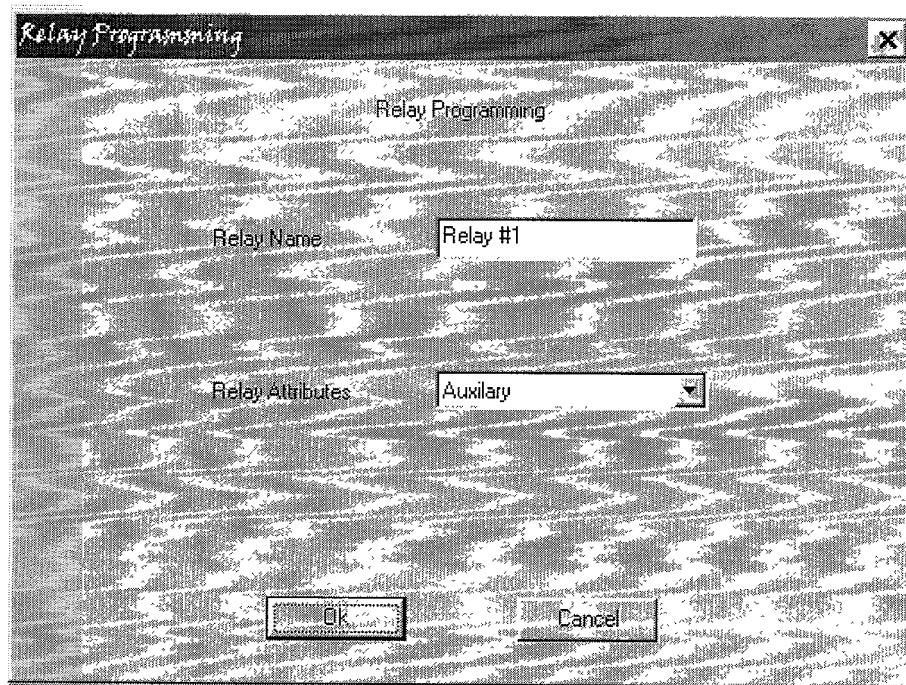


Figure 377

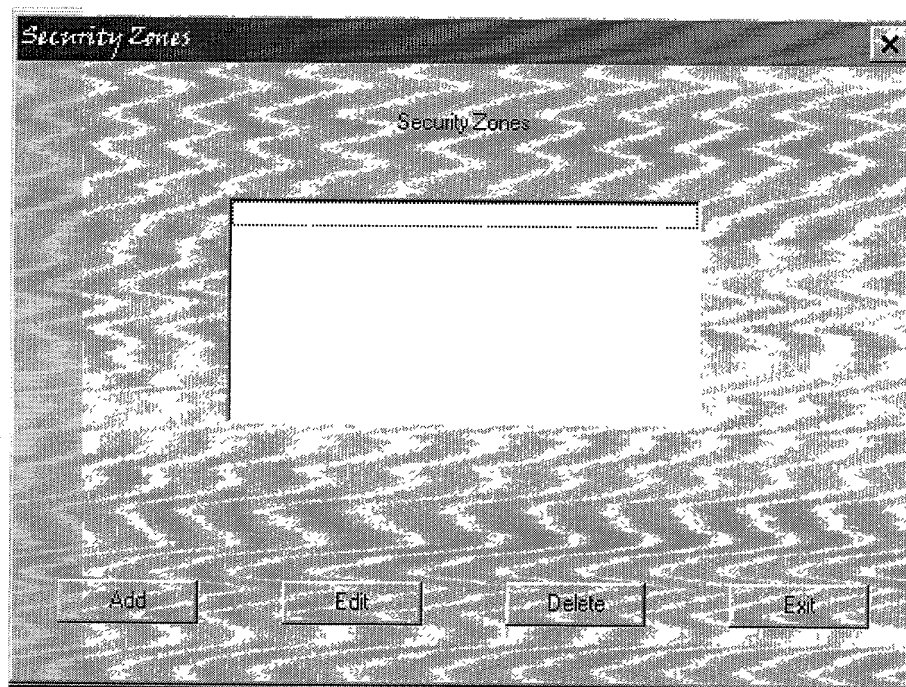


Figure 378

Add Security Zone

Zone Name: New Zone

Zone Mode: NO

Bypassable: No

Zone Type: Delay1

Zone Attribute: Door

OK Cancel

Figure 379

940

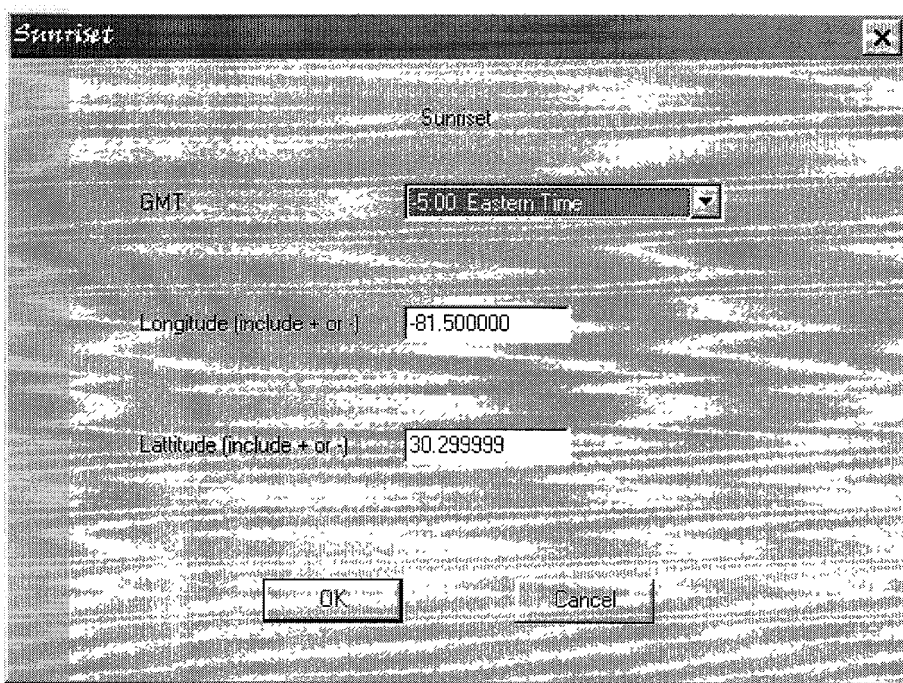


Figure 380

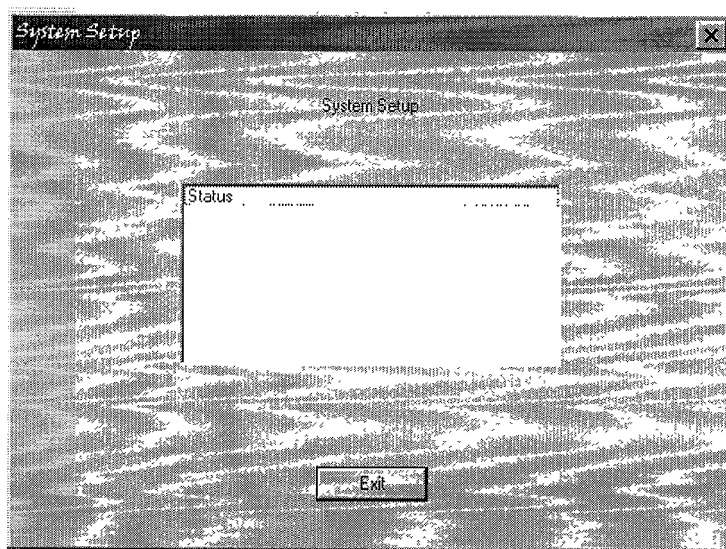


Figure 381

941

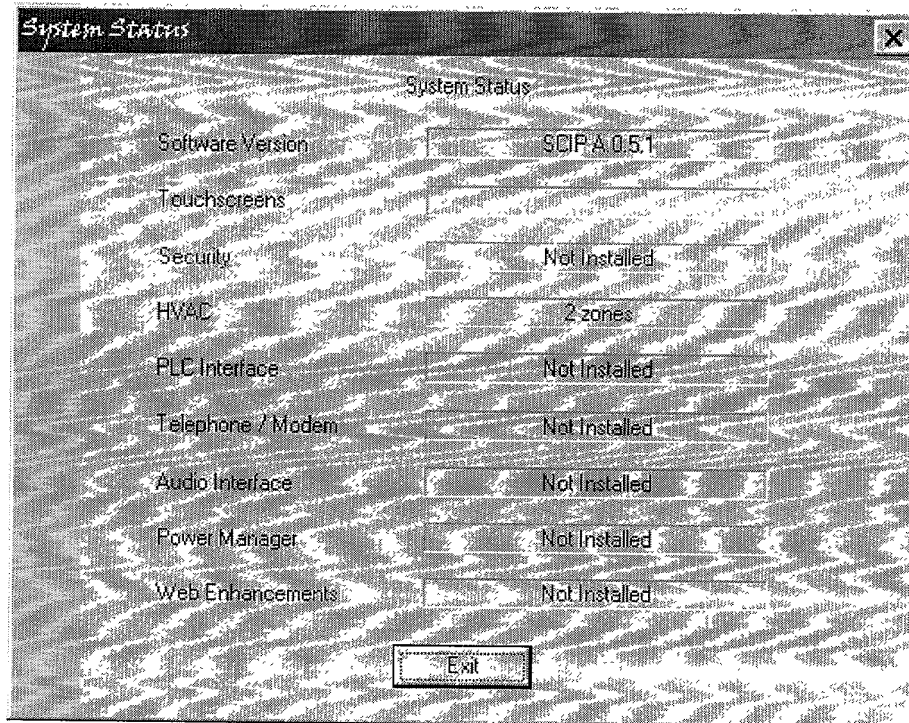
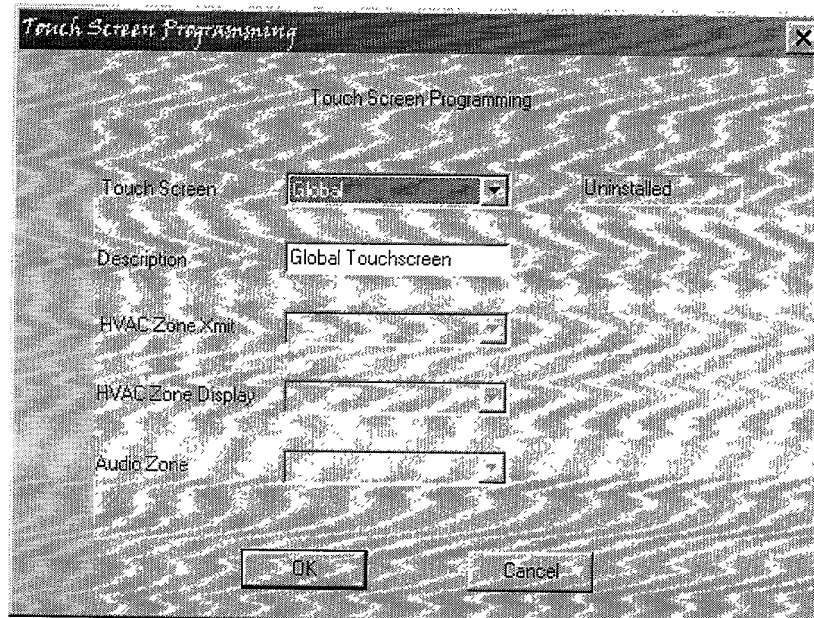


Figure 382



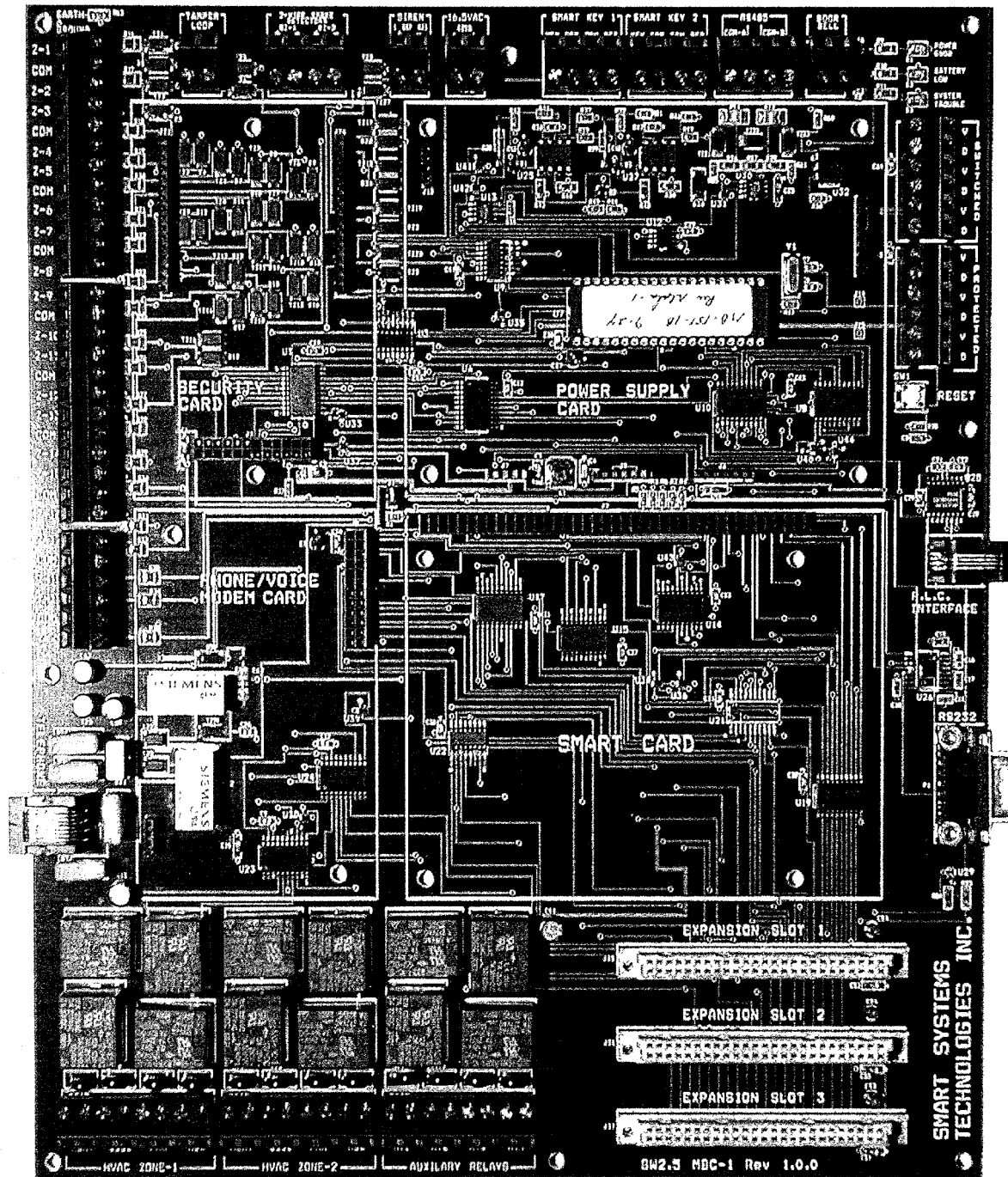


Figure 383

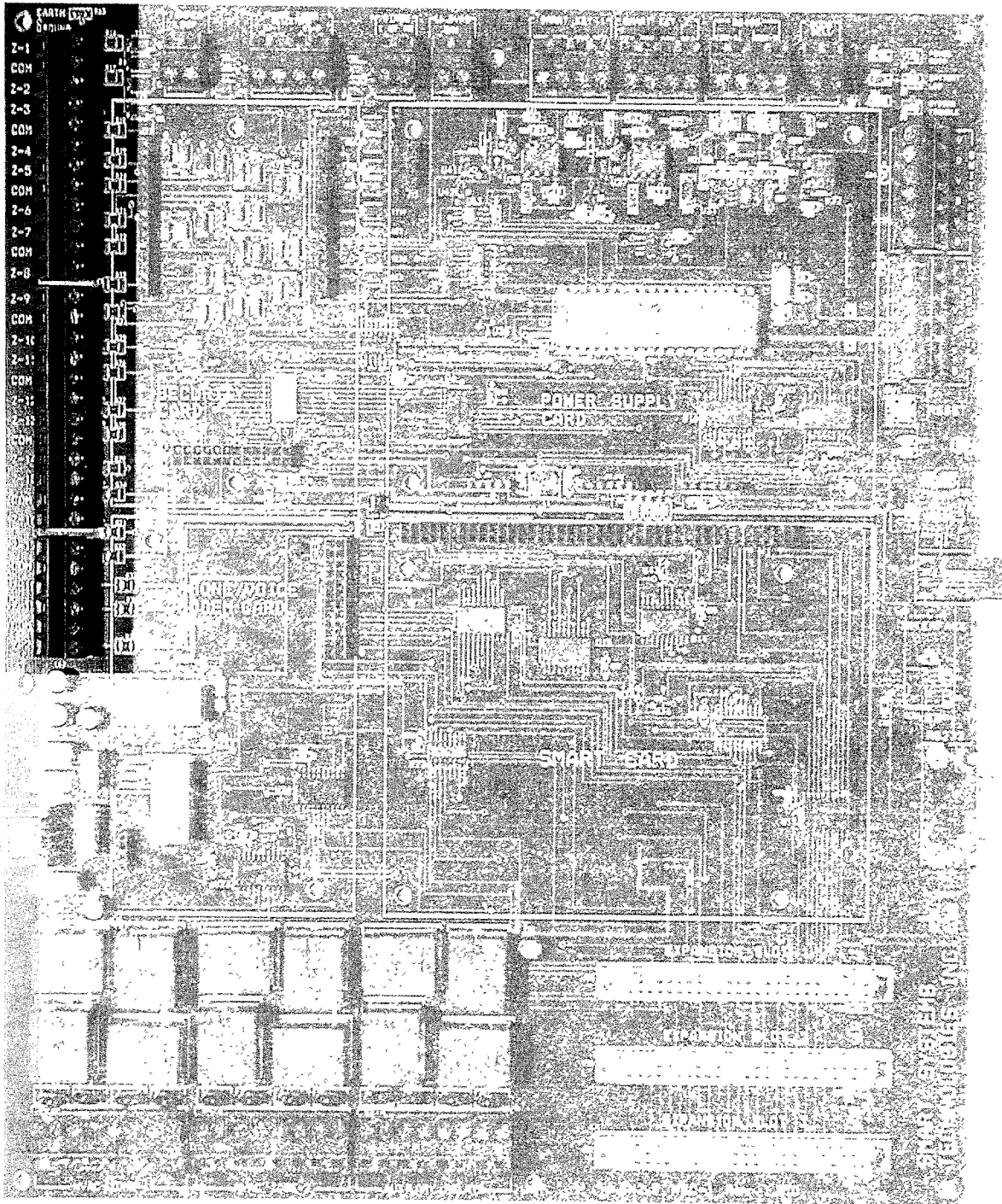


Figure 384

Figure 385A

A... Speech Data Recovery via DTMF-to-PCM
 • Each Step is Integrated into PC Board

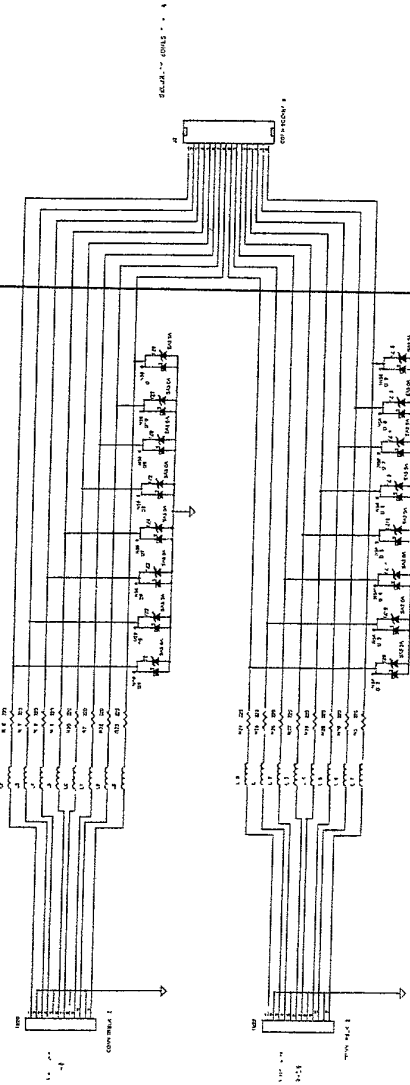


Figure 385B

Figure 385

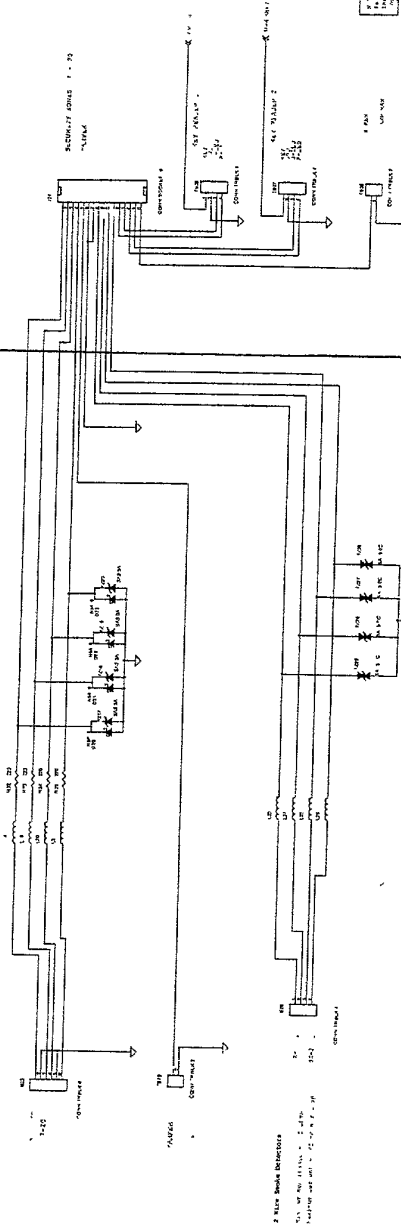


Figure 385C

Figure 385D

All Spark Gaps Removed as Discrete Parts:
Spark Gaps are Integrated into P.C. Board

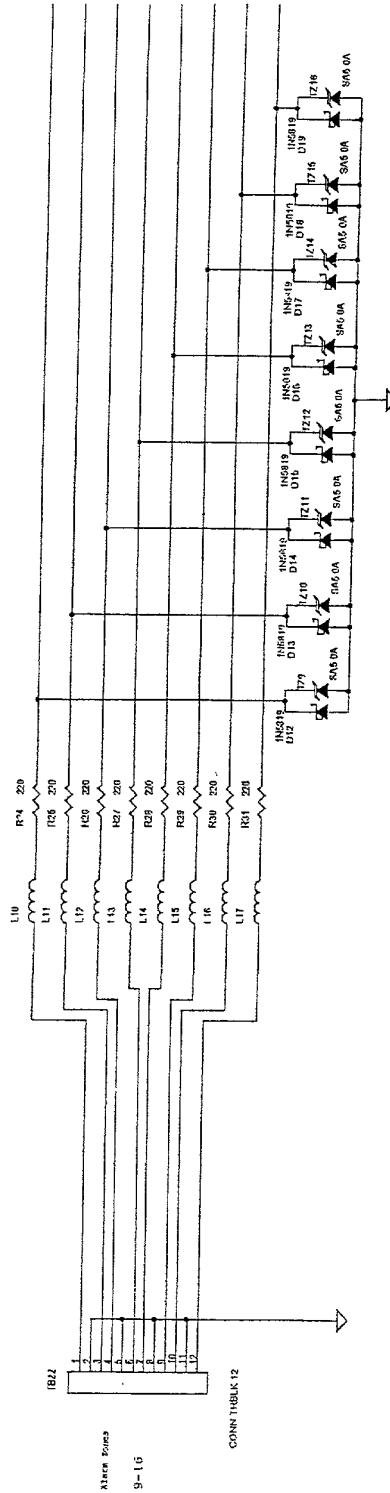
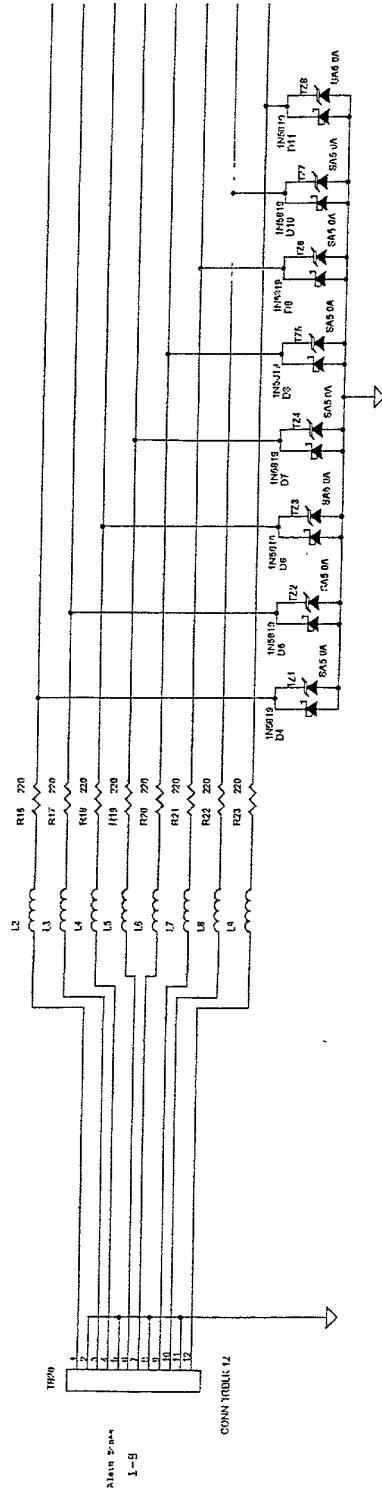


Figure 385A

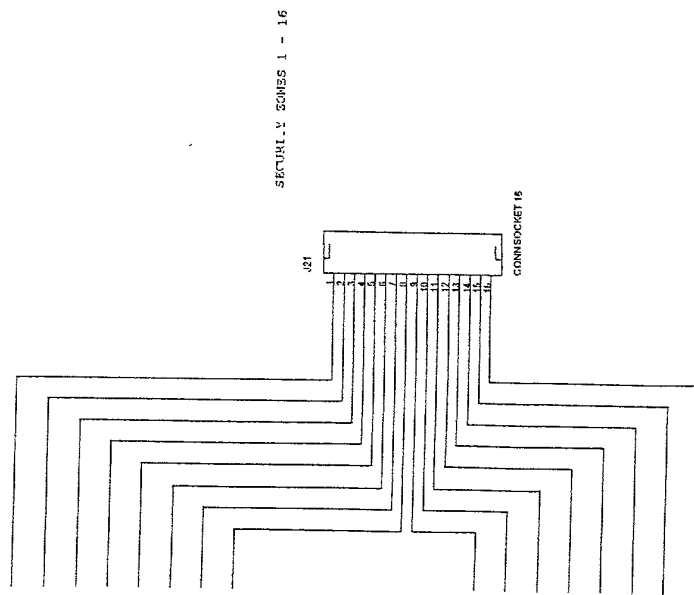


Figure 385B

Figure 385C is a schematic diagram of a smoke detector circuit. The circuit includes a transformer (T1) with primary windings L18, L19, L20, L21, and L22, and secondary windings L23, L24, L25, and L26. The primary windings are connected to a 17-20 VAC source. The secondary windings are connected to a bridge rectifier circuit consisting of four diodes (D1, D2, D3, D4) and a filter capacitor (C1). The rectifier circuit is connected to a 12VDC source. The circuit also includes a 100 Ohm resistor (R1) and a 140 mA peak-to-peak current source (I1). The circuit is labeled with various component values and specifications, including a 100 Ohm resistor (R1), a 140 mA peak-to-peak current source (I1), and a 12VDC source. The circuit is also labeled with various component values and specifications, including a 100 Ohm resistor (R1), a 140 mA peak-to-peak current source (I1), and a 12VDC source.

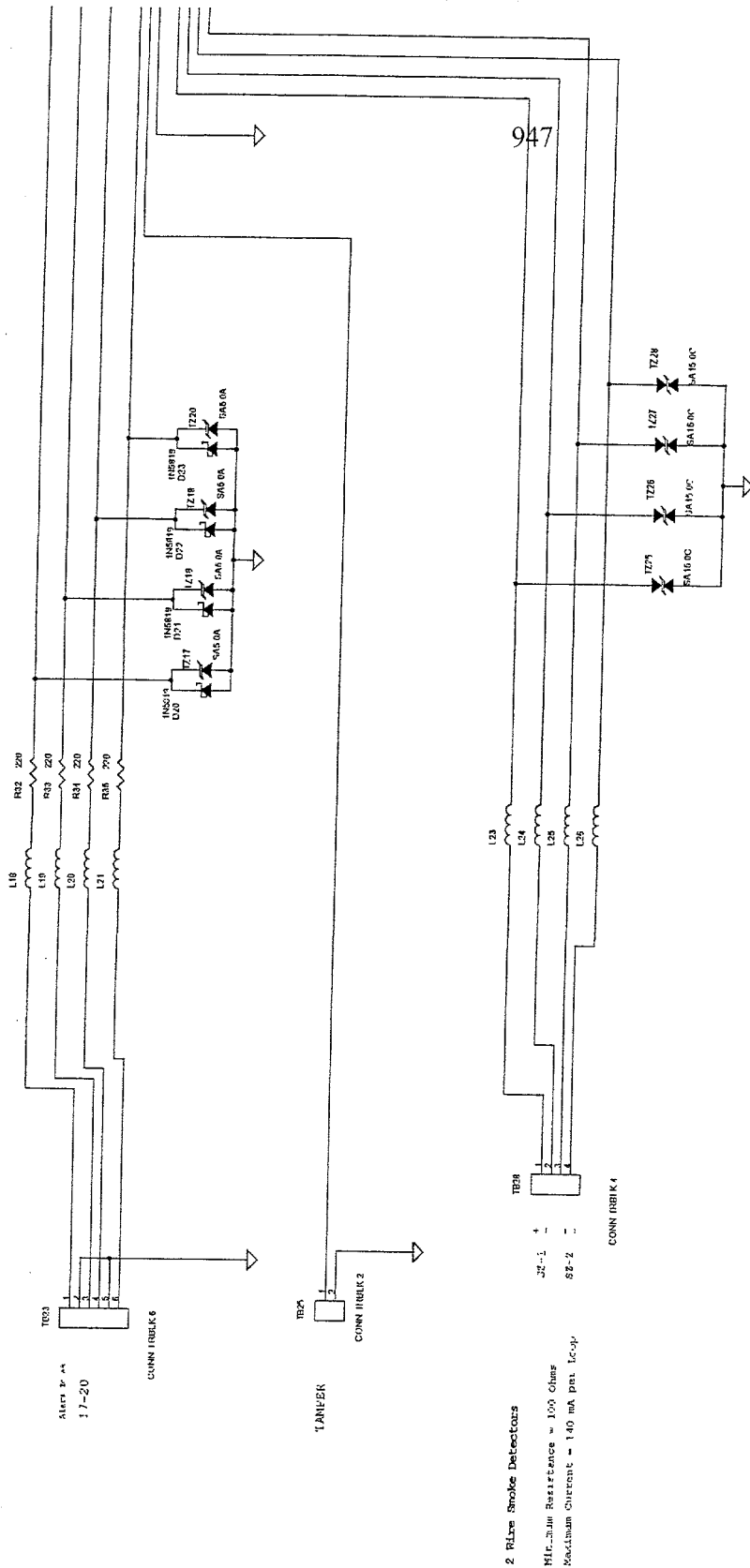


Figure 385C

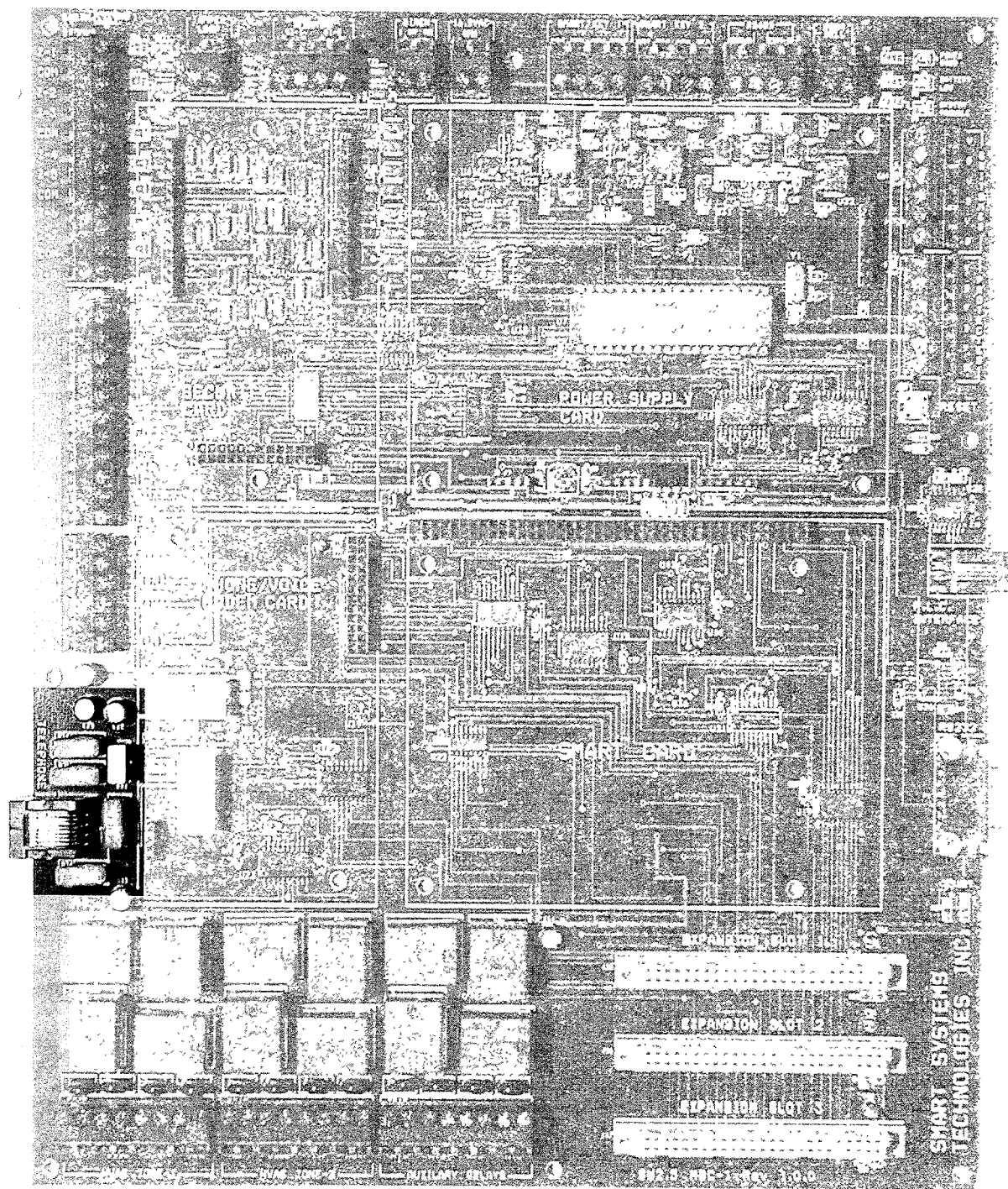


Figure 386

Figure 387A

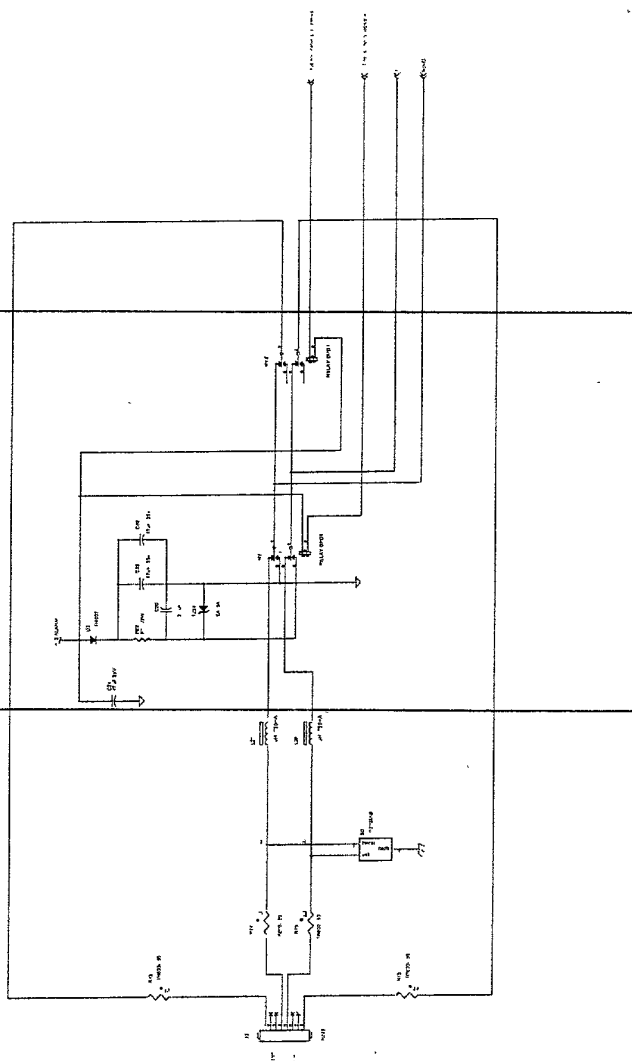


Figure 387B

Figure 387C

Figure 387

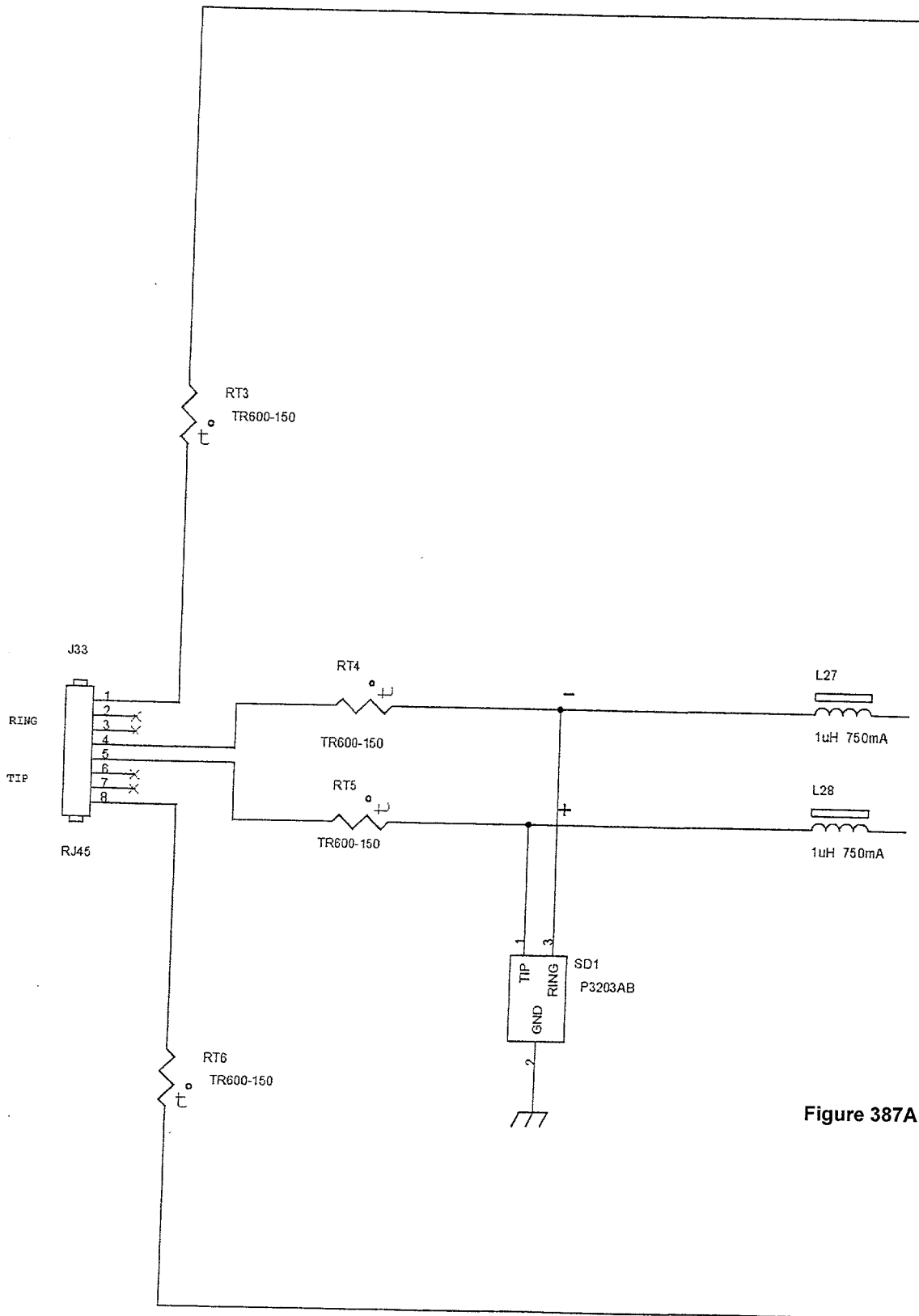


Figure 387A

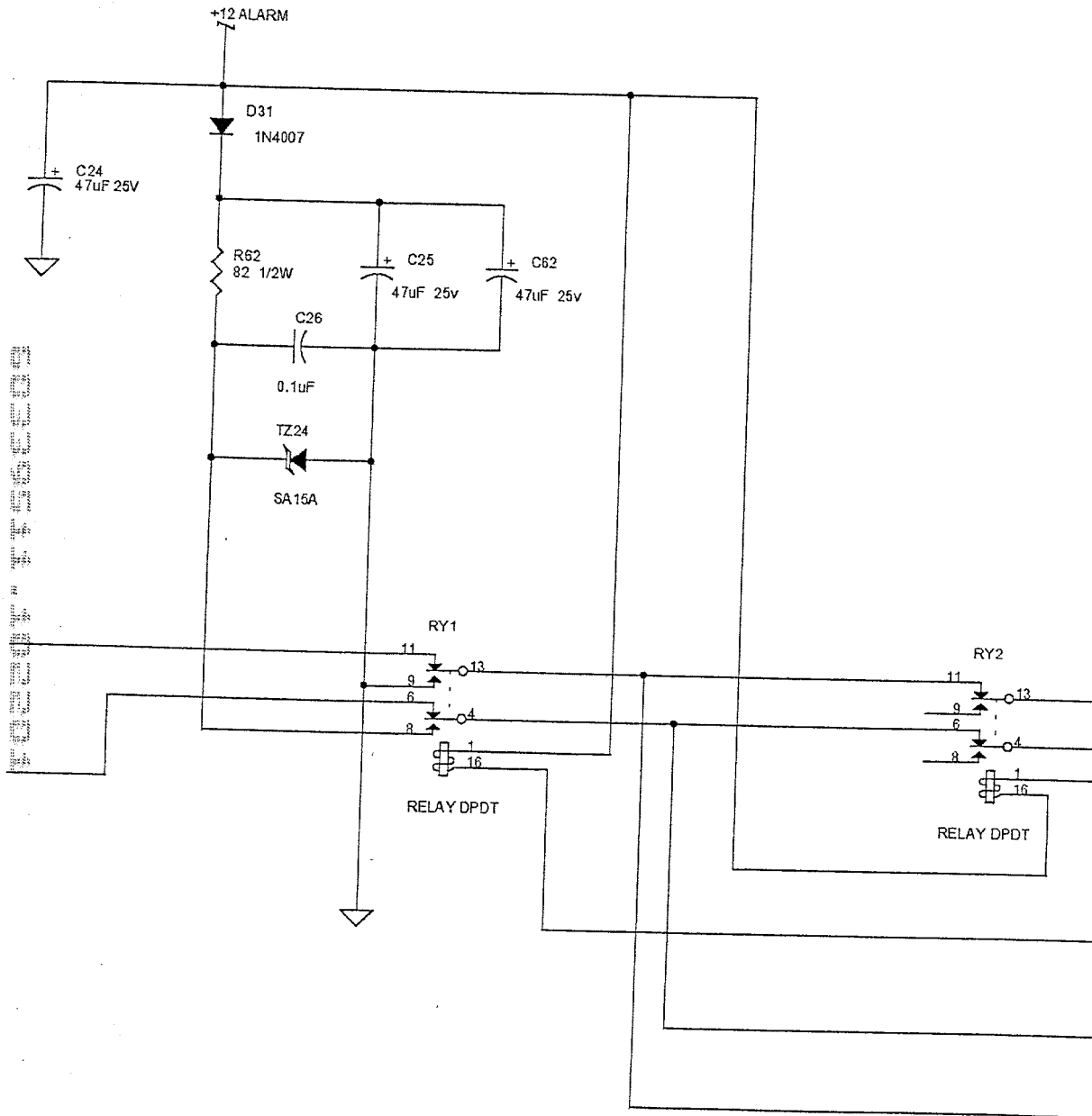


Figure 387B

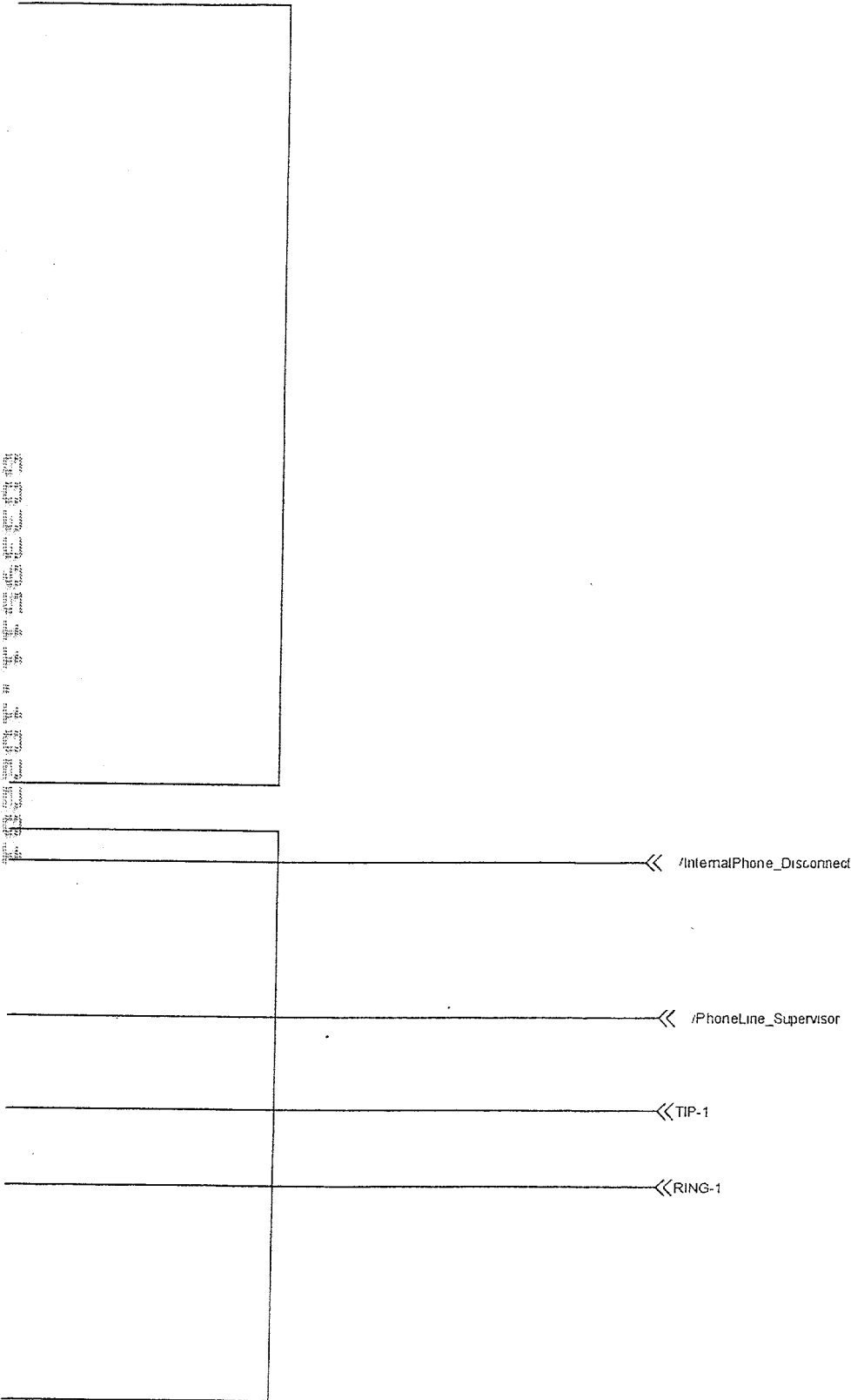


Figure 387C

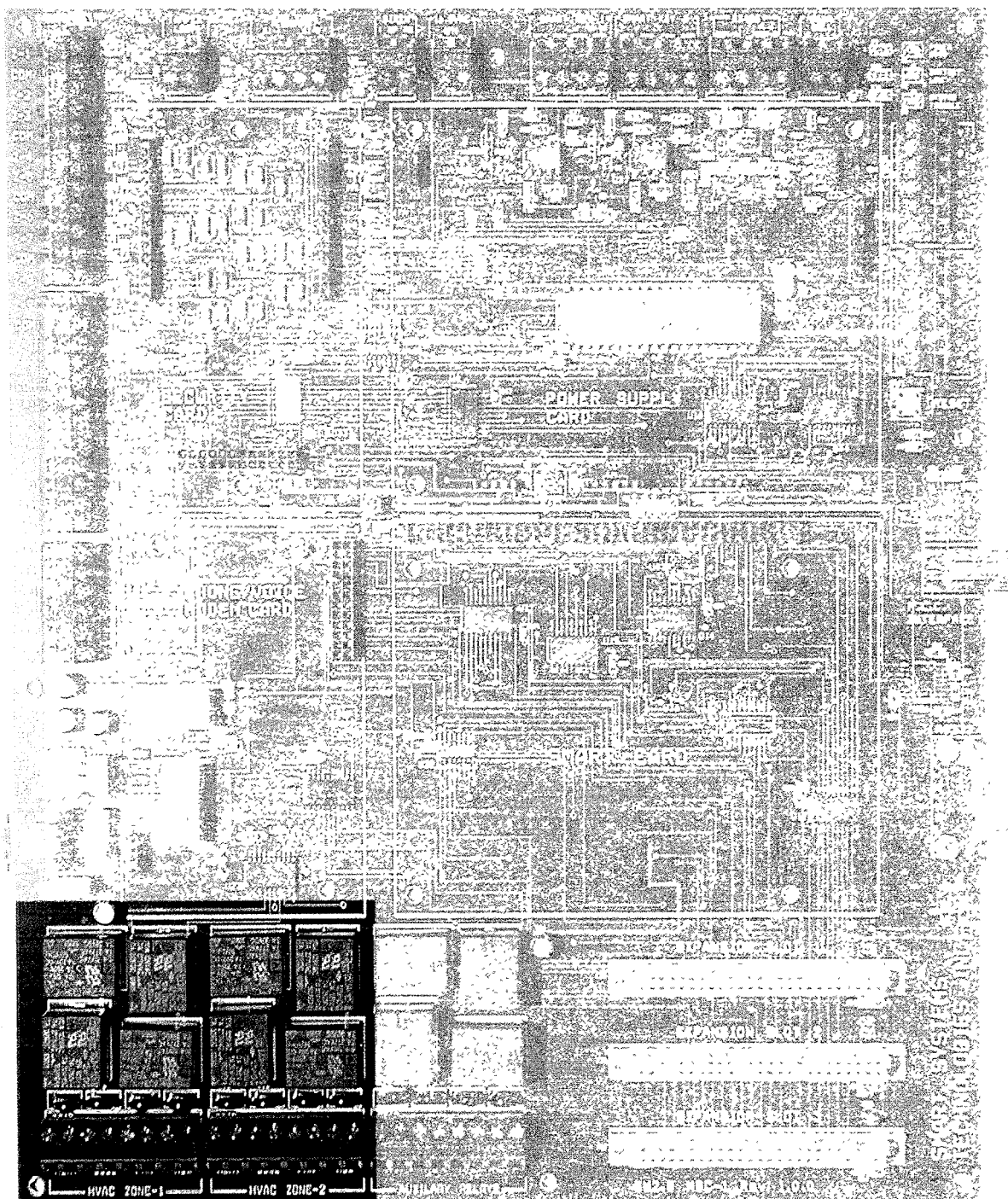


Figure 388

Figure 389A

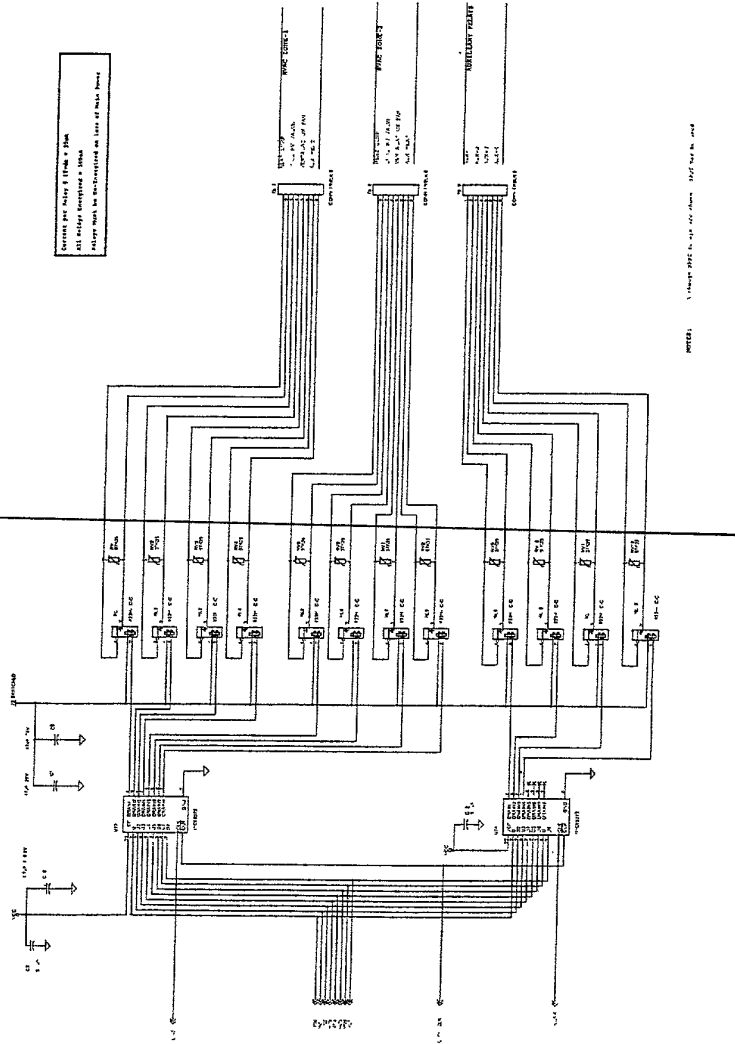


Figure 389B

Increase per wire & 1000 x 1000.
All bridge elements & 1000.
Please note the rectangular on line of wire lines.

Figure 389



3

Current per Relay @ 12vdc = 30mA
 All Relays Energized = 360mA
 Relays Must be De-Energized on Loss of Main Power

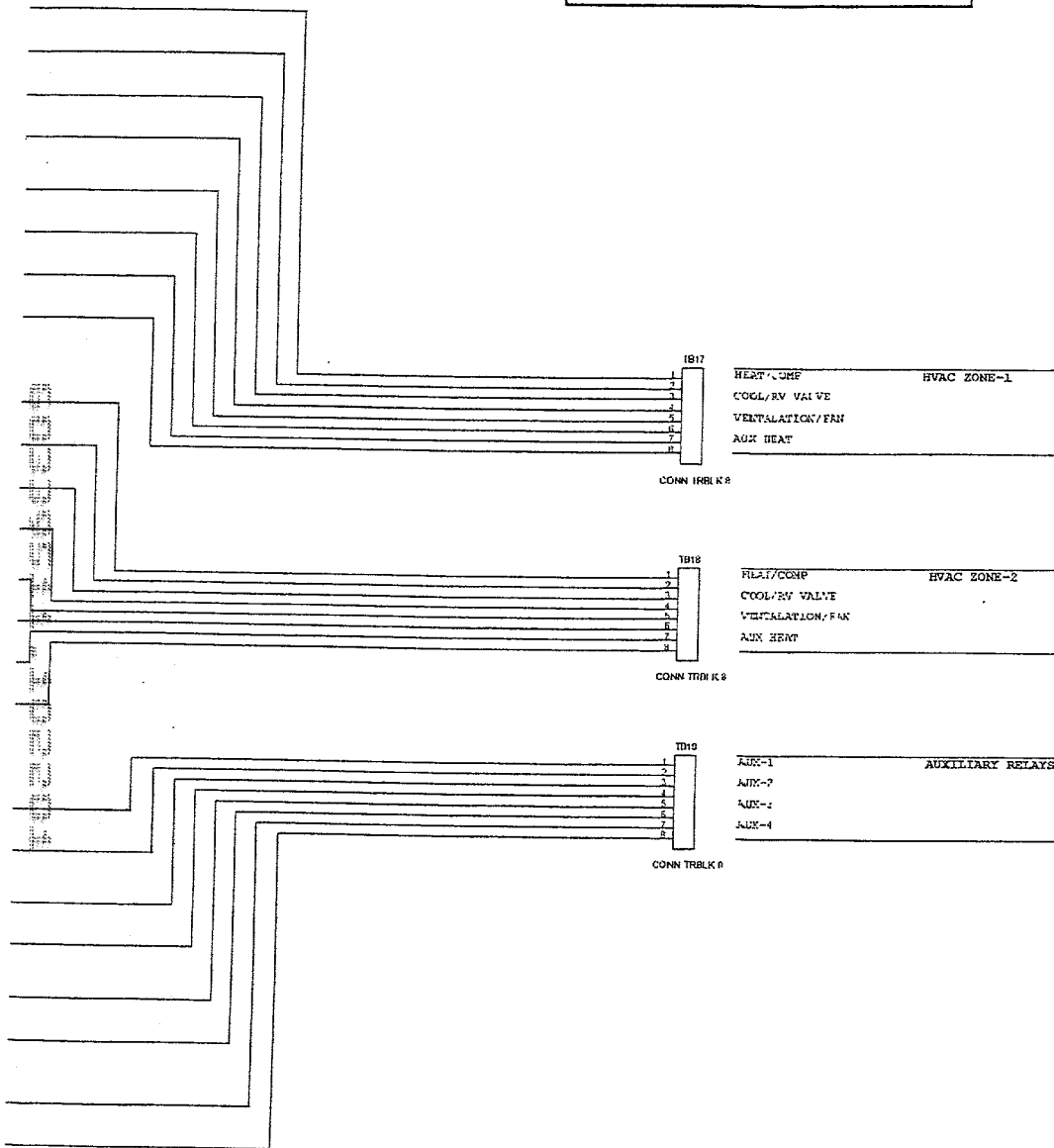


Figure 389B

NOTES: Although SEST relays are shown, a FOT may be used.

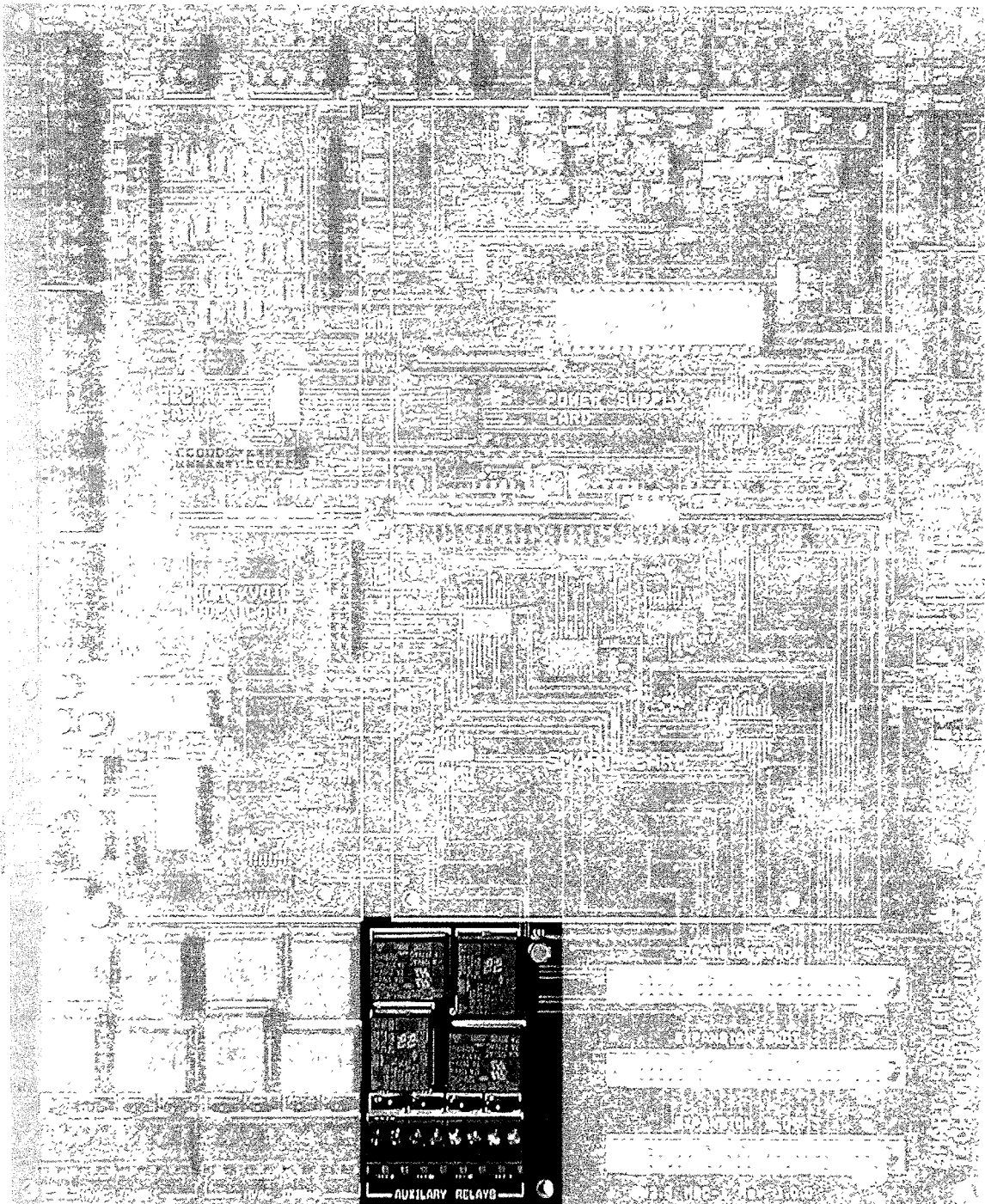


Figure 390

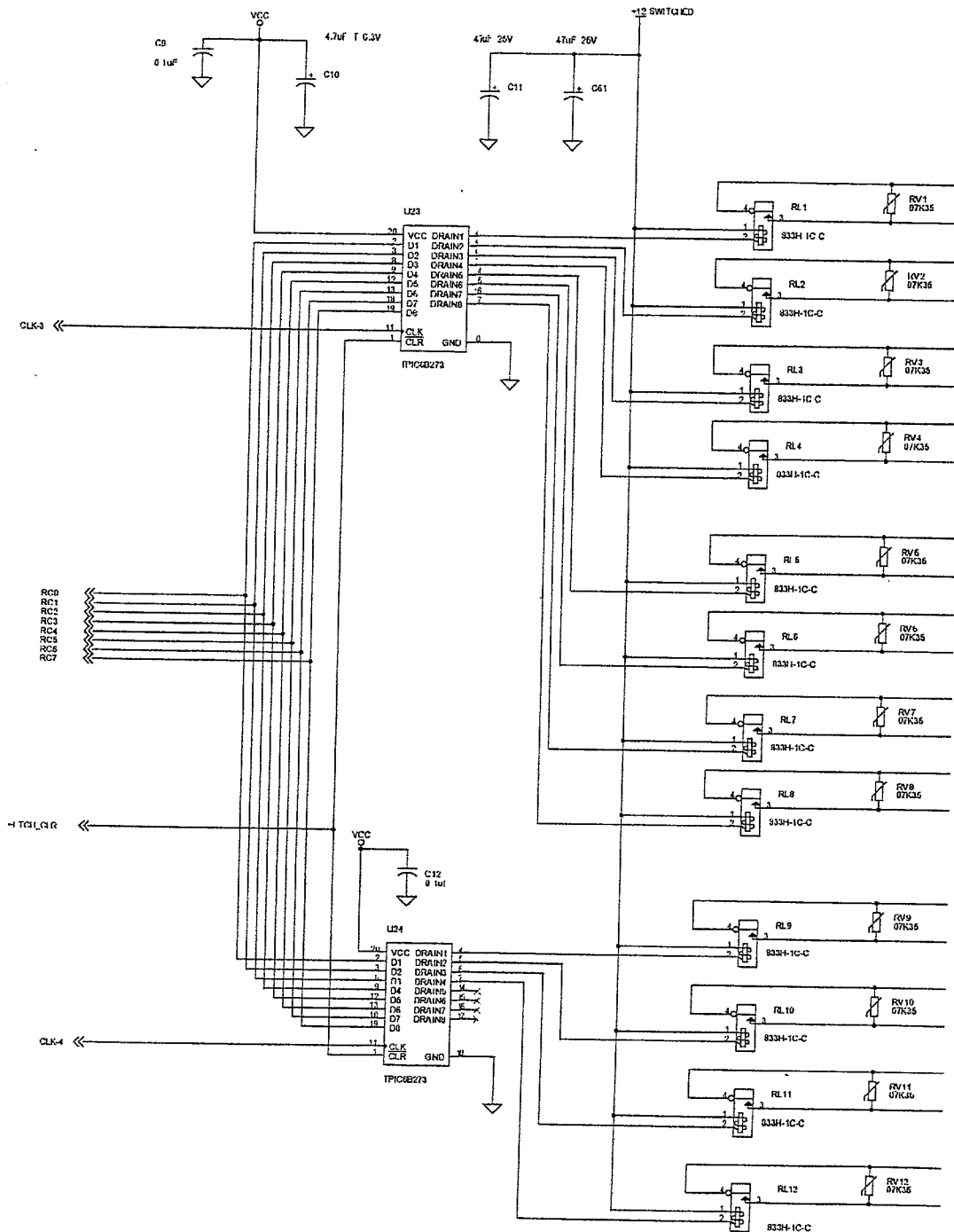


Figure 391A

Current per Relay @ 12vdc = 30mA
 All Relays Energized = 360mA
 Relays Must be De-Energized on loss of Main Power

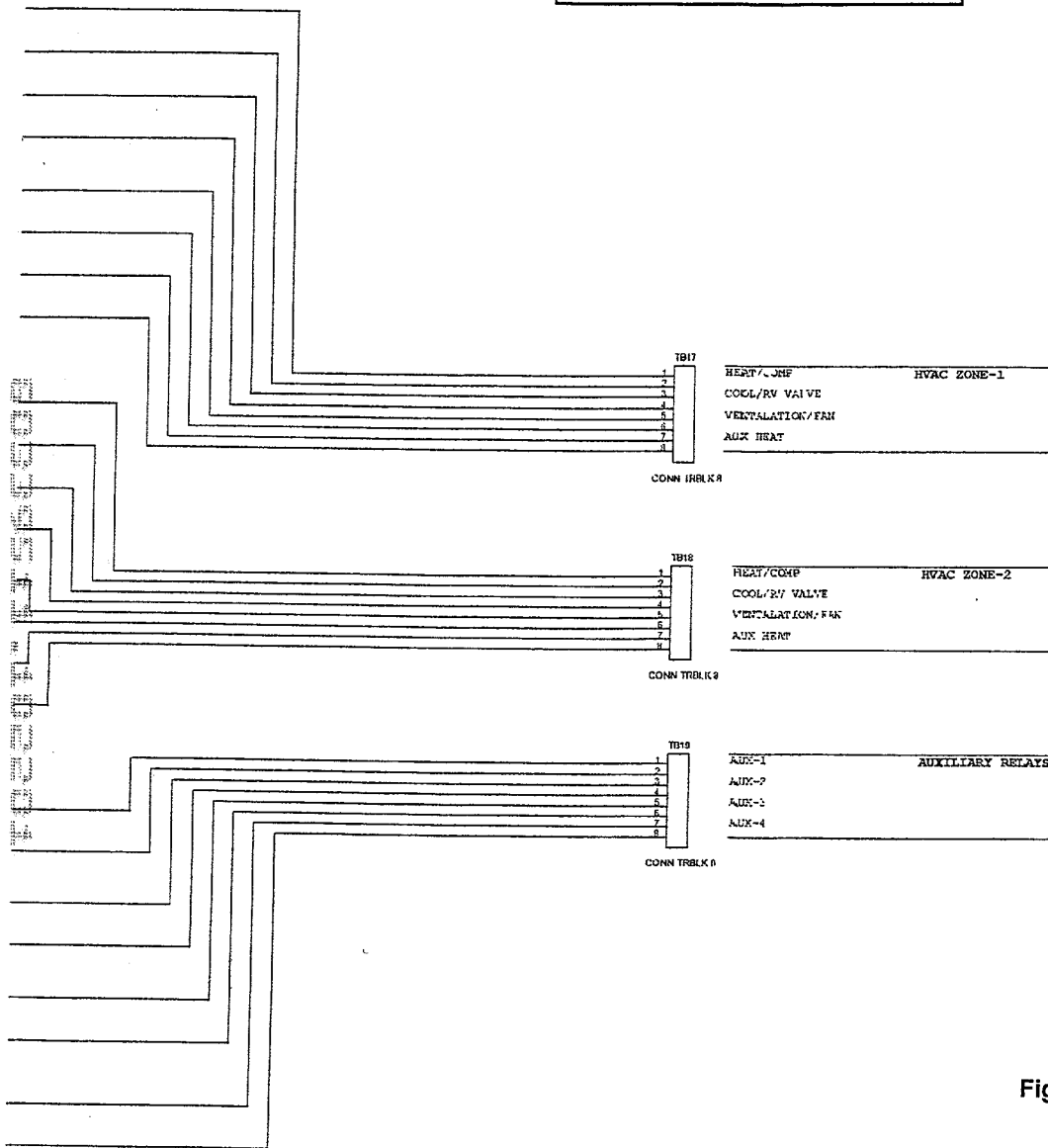


Figure 391B

NOTES: Although SEST relays are shown, SPDT may be used.

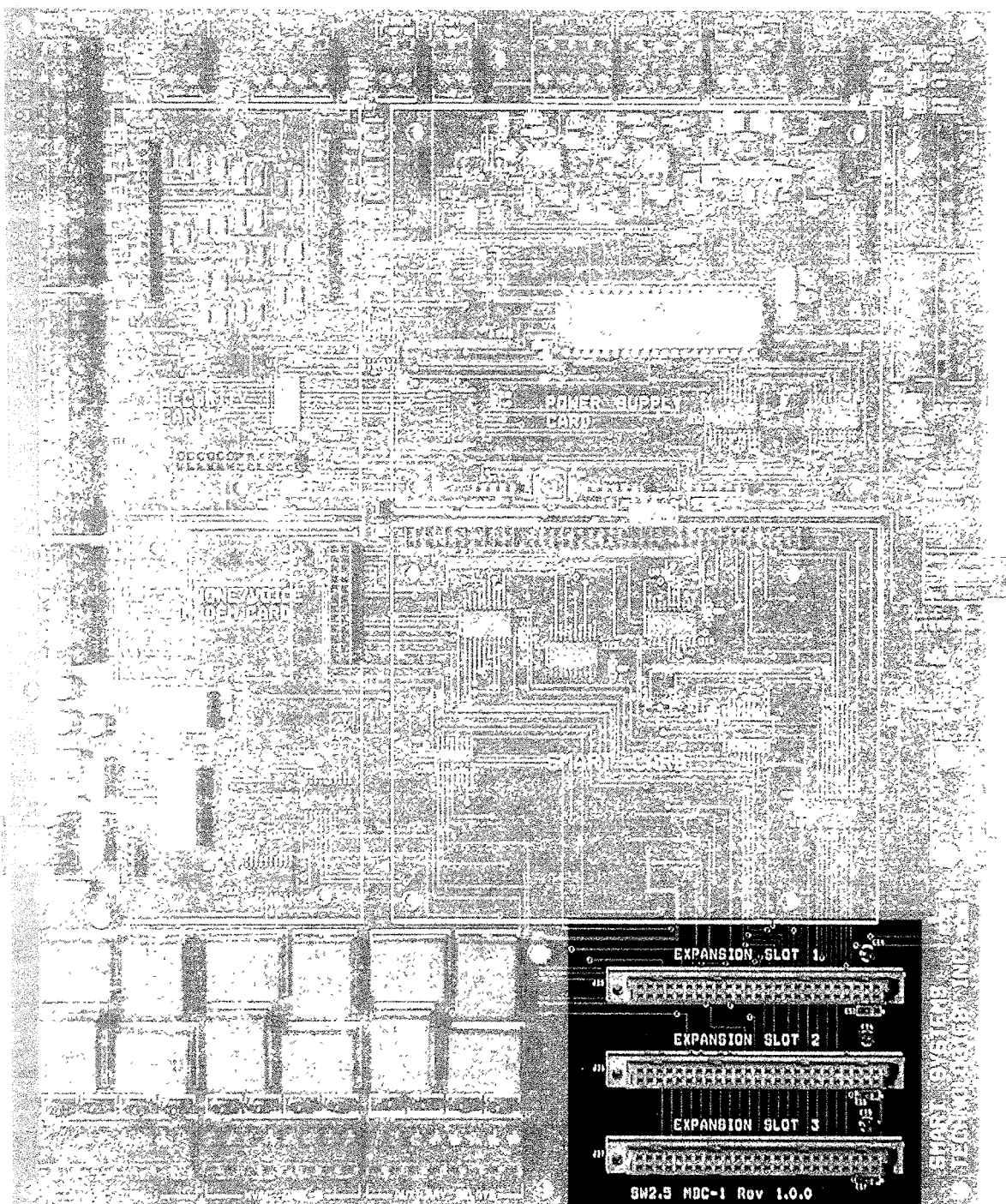


Figure 392

EXPANSION SLOT L1

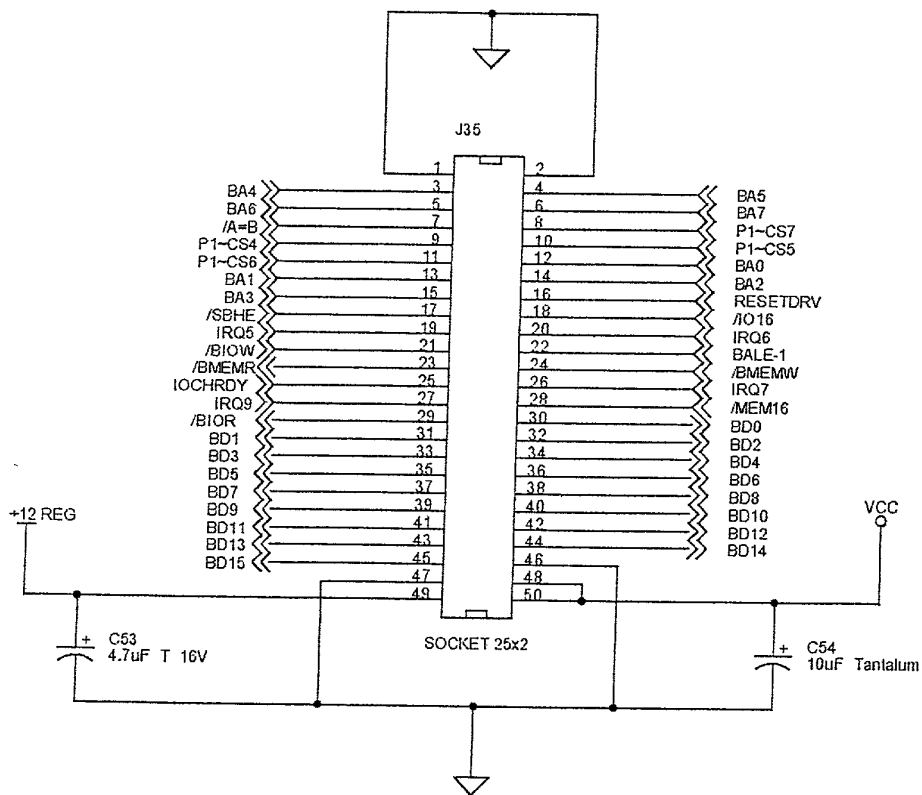


Figure 393

EXPANSION SLOT L2

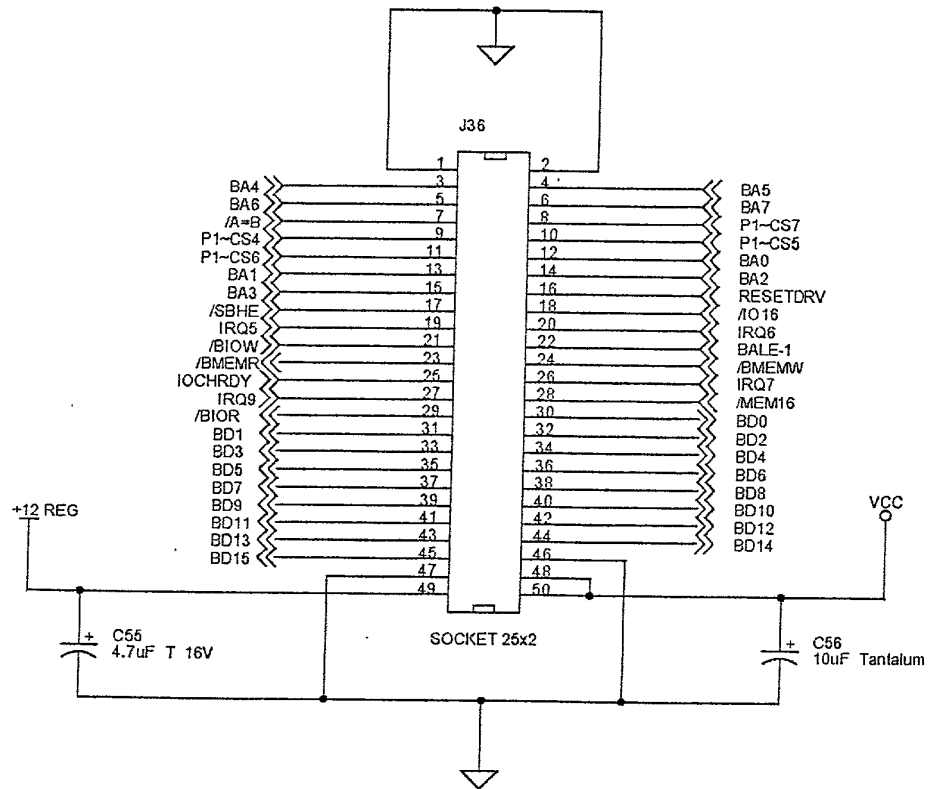


Figure 394

EXPANSION SLOT L3

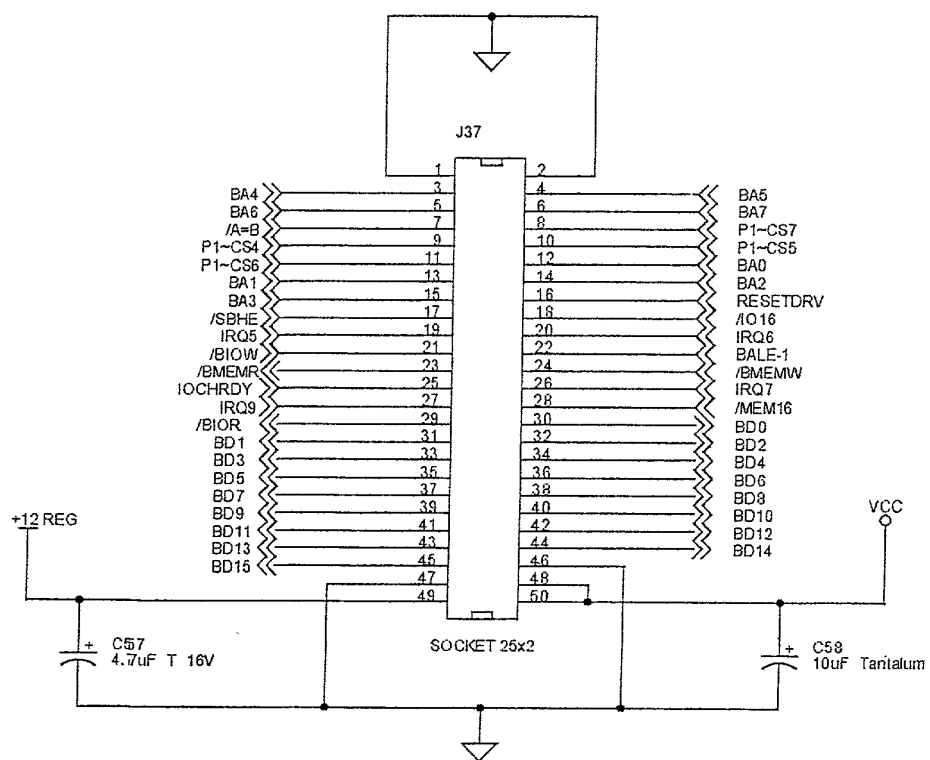


Figure 395

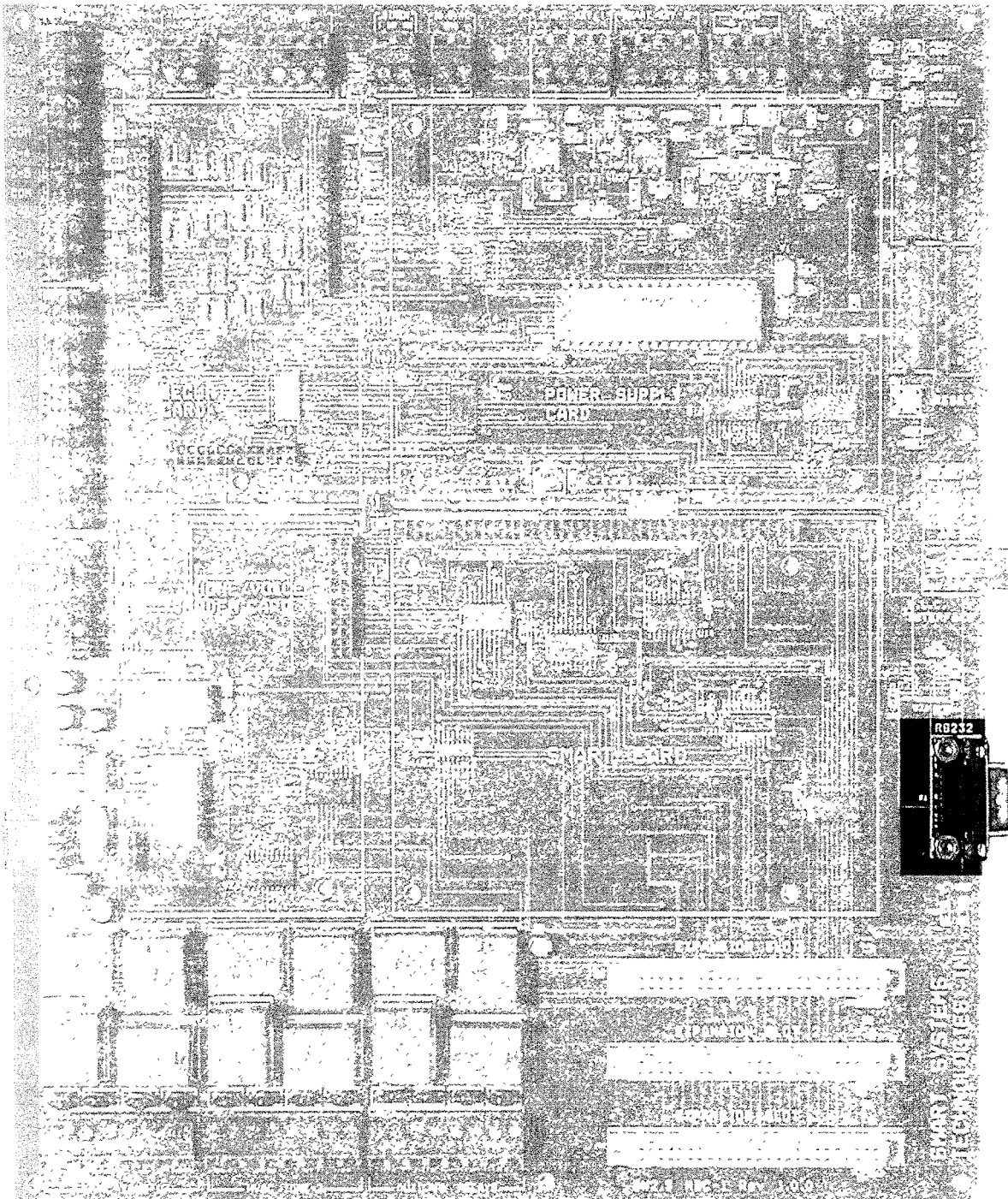


Figure 396

COM 2 RS232

PC and CONSOLE

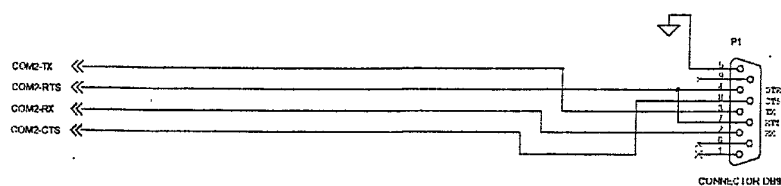


Figure 397