

NOTIFIER AFP-1010 Fire Alarm Control Panels User Manual

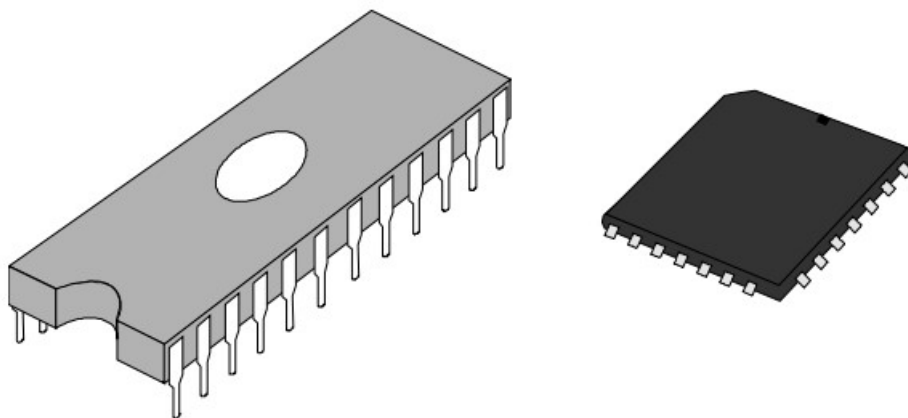
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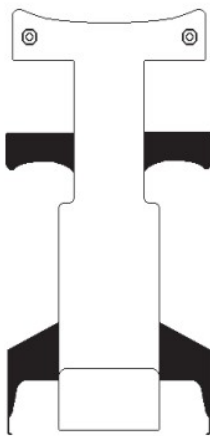
NOTIFIER AFP-1010 Fire Alarm Control Panels



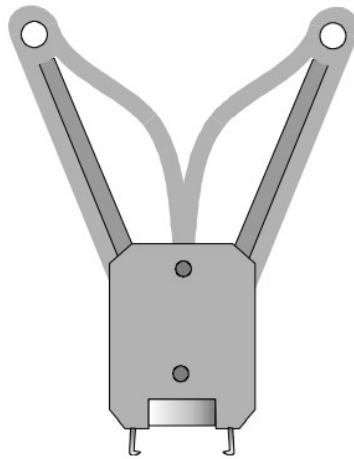
Installation Guidelines

Handling Precautions for Integrated Circuits Static electricity can destroy Integrated Circuits (ICs)! To prevent damage to the ROMs being changed in this procedure, a wrist strap and a static-free IC insertion/ extraction tool

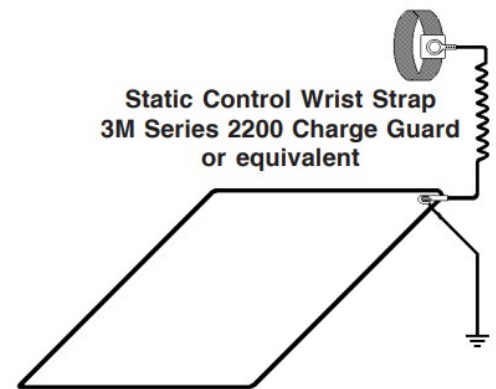
is highly recommended. Notifier cannot be responsible for damage to ROMs or other integrated circuitry in the system as a result of improper handling techniques. Always keep ROMs on a static-free mat or surface.



**Static-Free IC
Insertion/Extraction Tool**
(select size & type suitable for use with
the IC(s) which require extraction)



**Static-Free PLCC
Extraction Tool**
(select size & type suitable for use with
the PLCCs which require extraction)



Static-Dissipative Work Surface
3M Series 8300 Charge Guard
(or equivalent)
connected to Earth Ground

System Power Sources

Always remove primary and secondary power before working on the system!

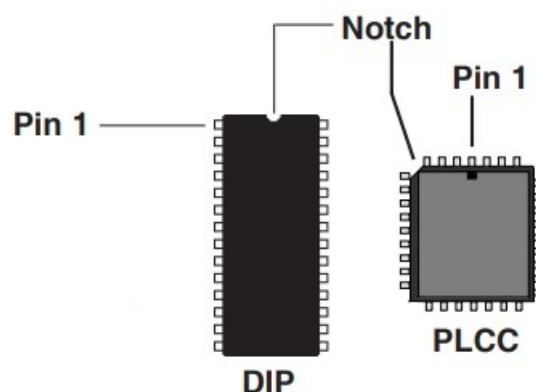
1. Disconnect battery backup power first by removing the Battery Interconnect Cable.
2. Proceed by disconnecting AC power to the panel at the main service circuit breaker (not the circuit breaker at the fire alarm control panel's power supply).
3. Wait 60 seconds to allow for capacitive discharge before touching any of the system's components.
4. Reverse the procedure for powering up the system — AC first, then batteries.

WARNING! Failure to follow this procedure can result in a loss of program memory.

Integrated Circuit Pin Convention

Observe proper orientation of any IC removed or installed!

Note location of pin 1 with respect to the notch in the body of the IC. The replacement ROM must be installed in the same manner as the ROM removed. Failure to observe this orientation will result in destruction of the ROM.



Compatibility Warning To ensure complete compatibility between AM2020, AFP1010 boards and NOTI•FIRE•NET™ system boards, all ROMs in the system(s) must be changed at the same time. The control panel will not function properly with a mix of ROMs from different software levels. In addition, all ROMs from the same software level are not necessarily compatible. They must comprise a valid software combination. Consult the factory to determine whether or not your particular software part numbers will function as a group. The affected ROMs are listed in the table below.

ROM(n)

ROM / Board(s)

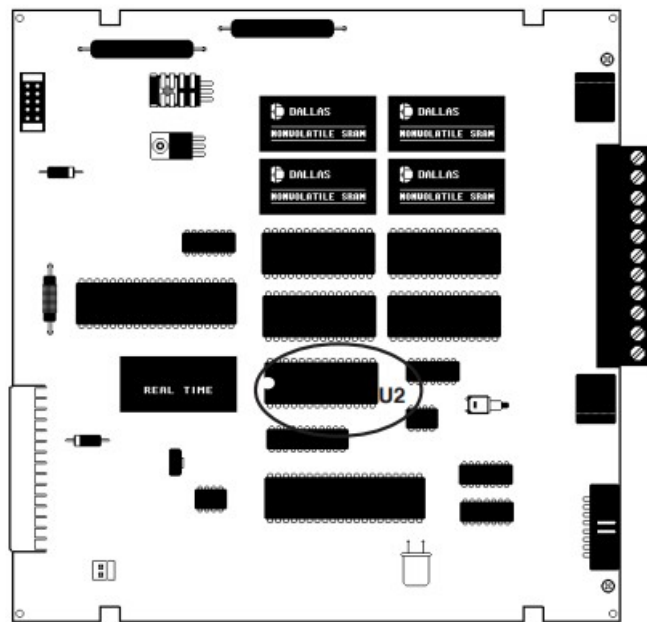
- A1ROM(n)-CPU CPU-2 Central Processor Unit
- A1ROM(n)-DIA DIA-2 Display Interface Assembly
- A1ROM(n)-DIA DIA-1010 Display Interface Assembly
- AROM(n)-AMG AMG-1 Audio Message Generator
- AROM(n)-AMGX4 AMG-1 Audio Message Generator
- AROM(n)-AMGZC AMG-1 Audio Message Generator
- AROM(n)-AMGZCF AMG-1 Audio Message Generator
- AROM(n)-CPU CPU-2020 Central Processor Unit
- AROM(n)-DIA DIA-1 Display Interface Assembly
- AROM(n)-DIA DIA-2020 Display Interface Assembly
- AROM(n)-LCD LCD-80 Liquid Crystal Display
- AROM(n)-LIB LIB-200 Loop Interface Board
- AROM(n)-LIB2 LIB-400/LIB-200A Loop Interface Board
- AROM(n)-NIB NIB-96 Network Interface Board
- AROM(n)-SIB SIB-2048/SIB-2048A/SIB-NET Serial Interface Board (not the SIB-64 or SIB-232)
- AROM(n)-TPI TPI-232 Telephone Panel Interface
- AROM(n)-UZC UZC-256 Universal Zone Coder
- AROM(n)-XPP XPP-1 Transponder Processor Module
- N1ROM-(n) DIA-1010, CPU-2 and SIB-NET for NOTI•FIRE•NET™
- NROM-(n) DIA-2020, CPU-2020 and SIB-NET for NOTI•FIRE•NET™
- NROM-INA(n) INA Intelligent Network Annunciator for NOTI•FIRE•NET™
- NROM(n)-MET MET-1 Media Evaluation Tool for NOTI•FIRE•NET™
- NROM-NAM(n) AFP-200 FACP and NAM-232 Network Adapter Module
- NROMC-NAM(n) AFP-200 FACP and NAM-232 Network Adapter Module
- ROM(n)-NCM NCM and NCS-NCM
- ROM(n)-RFX RFX Wireless Interface
- ROM(n)-SCS SCS-8/SCS-8L Smoke Control Station

ROM Installation

1. Disconnect secondary (DC) power.
2. Disconnect primary (AC) power. CAUTION! Remove AC power at the main service circuit breaker (not the circuit on the Main Power Supply) or all the programming information may be lost!
3. Replace each ROM as outlined in the respective sections.

4. Connect primary (AC) power.
5. Connect secondary (DC) power.
6. After all replacement ROMs have been installed, the entire system must be completely tested. Note: With the exception of new features, replacing the ROMs does not usually require re-entry of the system application program.
7. Please place all ROMs removed from the system into the static-protected boxes (provided with the replacement ROMs) and return them to the following address: ATTN: Software Engineering, Notifier, 12 Clintonville Road, Northford, Connecticut 06472-1653.

AROM(n)-CPU / NROM (n) for CPU-2020

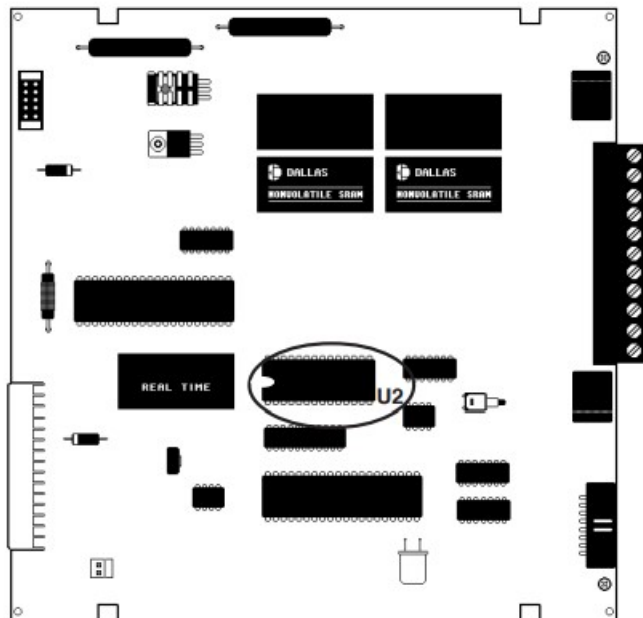


CPU-2020 Central Processing Unit

- Open the Display Interface Assembly (DIA) door.
- Using an IC insertion/extraction tool, carefully remove ROM U2 from the CPU-2020 and place it on an antistatic surface.
- Observe proper orientation and ensure that none of the pins are bent. Insert the supplied replacement ROM into the socket for U2 on the CPU-2020.
- Close the DIA door.

WARNING: Software must be compatible system-wide. When not completely sure about compatibility, consult the factory before changing ROMs.

A1ROM(n)-CPU / N1ROM-(n) for CPU-2

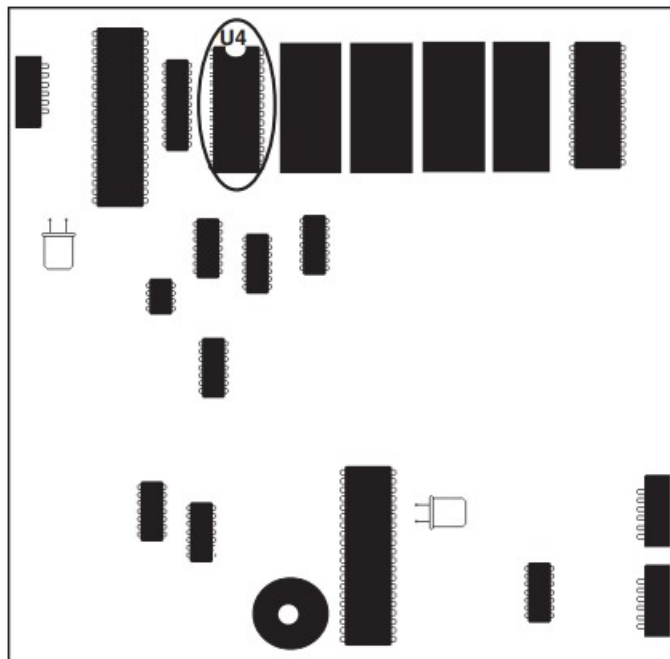


CPU-2 Central Processing Unit

- Open the Display Interface Assembly (DIA) door.
- Using an IC insertion/extraction tool, carefully remove ROM U2 from the CPU-2 and place it on an antistatic surface.
- Observe proper orientation and ensure that none of the pins are bent. Insert the supplied replacement ROM into the socket for U2 on the CPU-2.
- Close the DIA door.

WARNING: Software must be compatible system-wide. When not completely sure about compatibility, consult the factory before changing ROMs.

AROM(n)-DIA for DIA-1



DIA-1 Display Interface Assembly

- Open the Display Interface Assembly (DIA-1) door. Disconnect all cables to the DIA-1.
- Remove the five screws that fasten the circuit board to the door.
- Remove the DIA-1 board and place it on an antistatic surface.
- Using an IC insertion/extraction tool, carefully remove ROM U4 from the board and place it on an antistatic surface.
- Observe proper orientation and ensure that none of the pins are bent. Insert the replacement ROM into the socket for U4 on the DIA-1.
- Install the circuit board on the DIA-1 door. Connect the cables from the CPU-2020 (and a SIB if installed) to the DIA-1.
- Close the DIA-1 door.

WARNING: Software must be compatible system-wide. When not completely sure about compatibility, consult the factory before changing ROMs.

A1ROM(n)-DIA for DIA-2



Honeywell

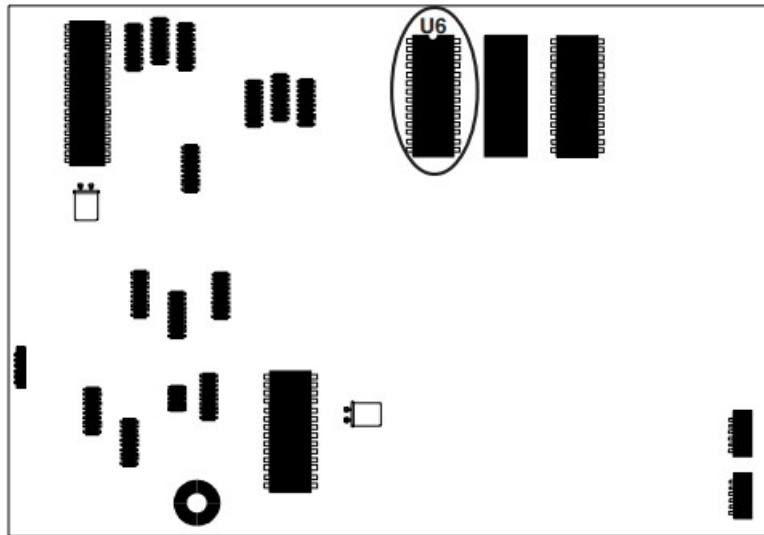


DIA-2 Display Interface Assembly

- Open the Display Interface Assembly (DIA-2) door. Disconnect all cables to the DIA-2.
- Remove the five screws that fasten the circuit board to the door. Remove the DIA-2 board and place it on an antistatic surface.
- Using an IC insertion/extraction tool, carefully remove ROM U4 from the board and place it on an antistatic surface.
- Observe proper orientation and ensure that none of the pins are bent. Insert the supplied replacement ROM into the socket for U4 on the DIA-2.
- Install the circuit board on the DIA-2 door. Connect the cables from the CPU-2 (and a SIB if installed) to the DIA-2.
- Close the DIA-2 door.

WARNING: Software must be compatible system-wide. When not completely sure about compatibility, consult the factory before changing ROMs.

AROM(n)-DIA / NROM-(n) for DIA-2020

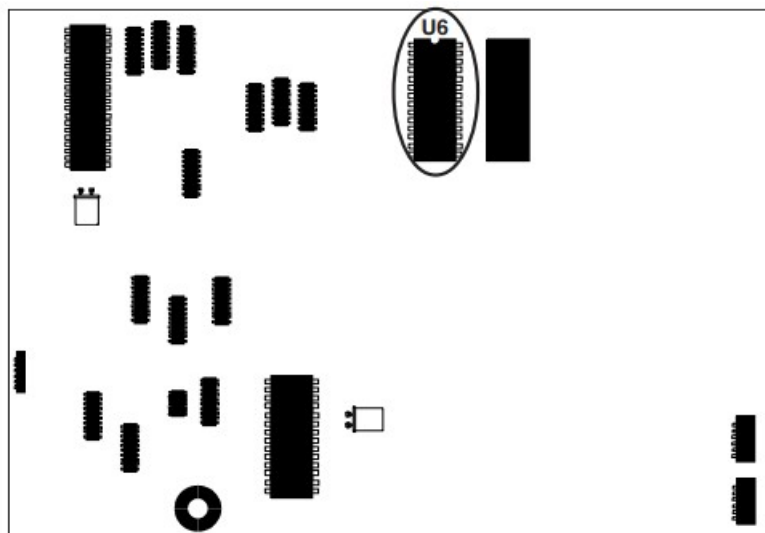


DIA-2020 Display Interface Assembly

- Open the Display Interface Assembly (DIA-2020) door. Disconnect all cables to the DIA-2020.
- Remove the six screws that fasten the circuit board to the door. Remove the DIA-2020 board and place it on an antistatic surface.
- Using an IC insertion/extraction tool, carefully remove ROM U6 from the board and place it on an antistatic surface.
- Observe proper orientation and ensure that none of the pins are bent. Insert the supplied replacement ROM into the socket for U6 on the DIA-2020.
- Install the circuit board on the DIA-2020 door. Connect the cables from the CPU-2020 (and a SIB if installed) to the DIA2020.
- Close the DIA-2020 door.

WARNING: Software must be compatible system-wide. When not completely sure about compatibility, consult the factory before changing ROMs.

A1ROM(n)-DIA / N1ROM-(n) for DIA-1010

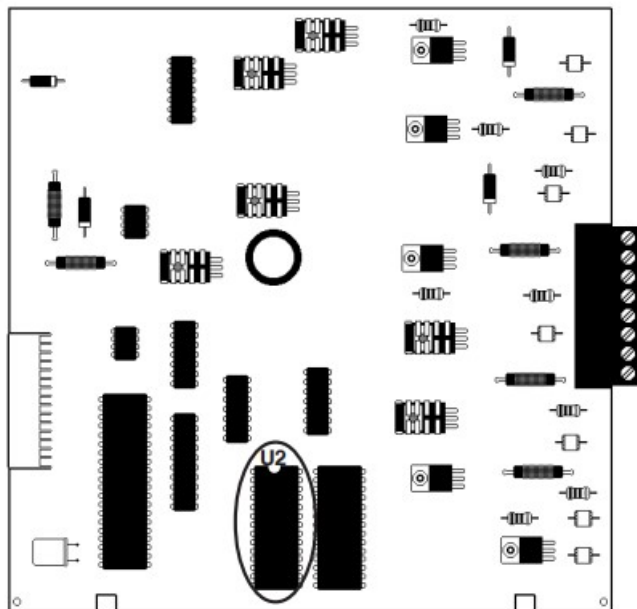


DIA-1010 Display Interface Assembly

- Open the Display Interface Assembly (DIA-1010) door. Disconnect all cables to the DIA-1010.
- Remove the six screws that fasten the circuit board to the door.
- Remove the DIA-1010 board and place it on an antistatic surface.
- Using an IC insertion/extraction tool, carefully remove ROM U6 from the board and place it on an antistatic surface.
- Observe proper orientation and ensure that none of the pins are bent. Insert the supplied replacement ROM into the socket for U6 on the DIA-1010.
- Install the circuit board on the DIA-1010 door. Connect the cables from the CPU-2 (and a SIB if installed) to the DIA-1010.
- Close the DIA-1010 door.

WARNING: Software must be compatible system-wide. When not completely sure about compatibility, consult the factory before changing ROMs.

AROM(n)-LIB / NROM-(n) / N1ROM-(n) for LIB-200

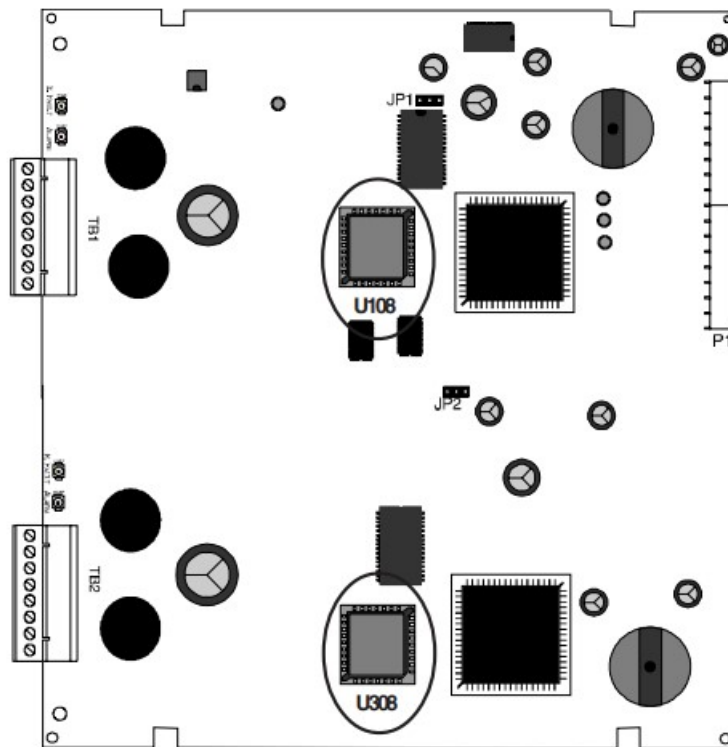


LIB-200 Loop Interface Board

- Remove a LIB-200 from the system and place it on an antistatic surface.
- Using an IC insertion/extraction tool, carefully remove ROM U2 from the LIB-200 and place it on an antistatic surface.
- Observe proper orientation and ensure that none of the pins are bent. Insert the supplied replacement ROM into the socket for U2 on the LIB-200.
- Install the LIB-200 in the system.
- Repeat steps for each LIB-200 in the system.

WARNING: Software must be compatible system-wide. When not completely sure about compatibility, consult the factory before changing ROMs.

AROM(n)-LIB2 for LIB-400

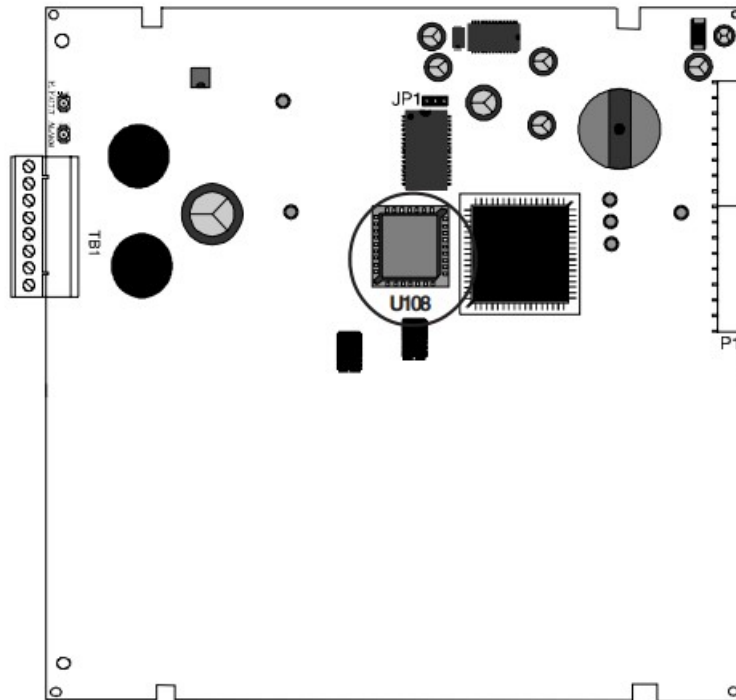


LIB-400 Loop Interface Board

- Remove the LIB-400 from the system and place it on an antistatic surface.
- Using a Plastic Leaded Chip Carrier (PLCC) extraction tool, carefully remove ROM U108 and U308 from the LIB and place them on an antistatic surface.
- Observe proper orientation and ensure that none of the pins are bent. Insert the supplied replacement ROMs into the sockets for U108 and U308 on the LIB.
- Install the LIB in the system.
- Repeat steps for each LIB-400 in the system.

WARNING: Software must be compatible system-wide. When not completely sure about compatibility, consult the factory before changing ROMs.

AROM(n)-LIB2 for LIB-200A

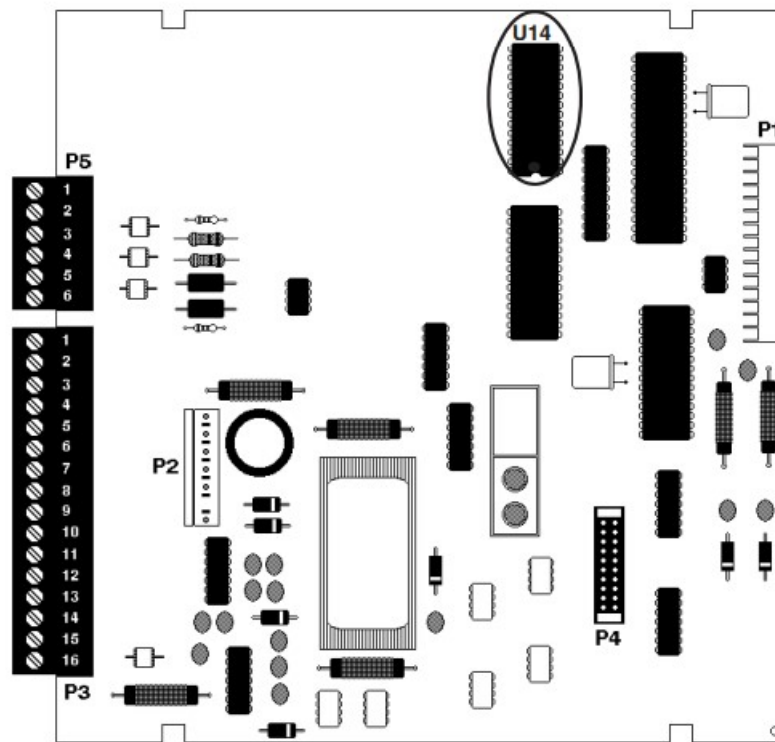


LIB-200A Loop Interface Board

- Remove the LIB-200A from the system and place it on an antistatic surface.
- Using a Plastic Leaded Chip Carrier (PLCC) extraction tool, carefully remove ROM U108 from the LIB and place it on an antistatic surface.
- Observe proper orientation and ensure that none of the pins are bent. Insert the supplied replacement ROM into the socket for U108 on the LIB.
- Install the LIB in the system.
- Repeat steps for each LIB-200A in the system.

WARNING: Software must be compatible system-wide. When not completely sure about compatibility, consult the factory before changing ROMs.

AROM(n)-SIB for SIB-2048

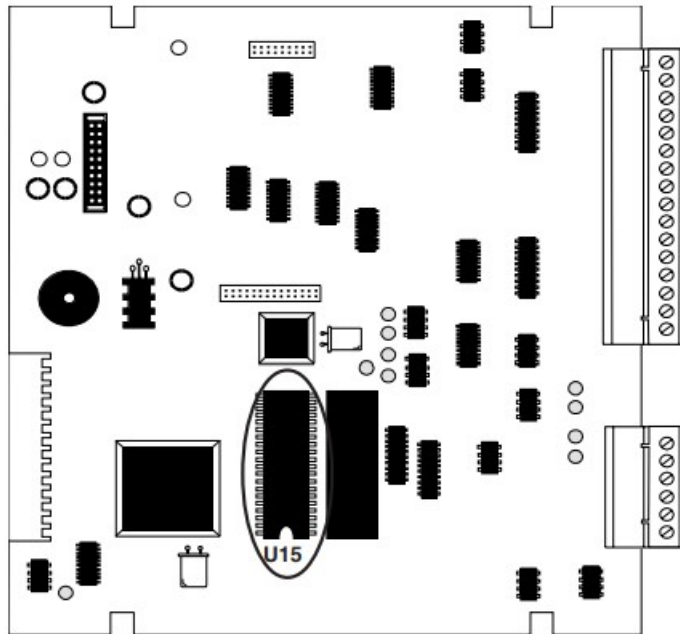


SIB-2048 Serial Interface Board

- Open the Display Interface Assembly (DIA) door.
- Using an IC insertion/extraction tool, carefully remove ROM U14 from the SIB-2048 and place it on an antistatic surface.
- Observe proper orientation and ensure that none of the pins are bent. Insert the supplied replacement ROM into the socket for U14 on the SIB-2048.
- Close the DIA door.

WARNING: Software must be compatible system-wide. When not completely sure about compatibility, consult the factory before changing ROMs.

NROM-(n) / AROM(n)-SIB for SIB-NET

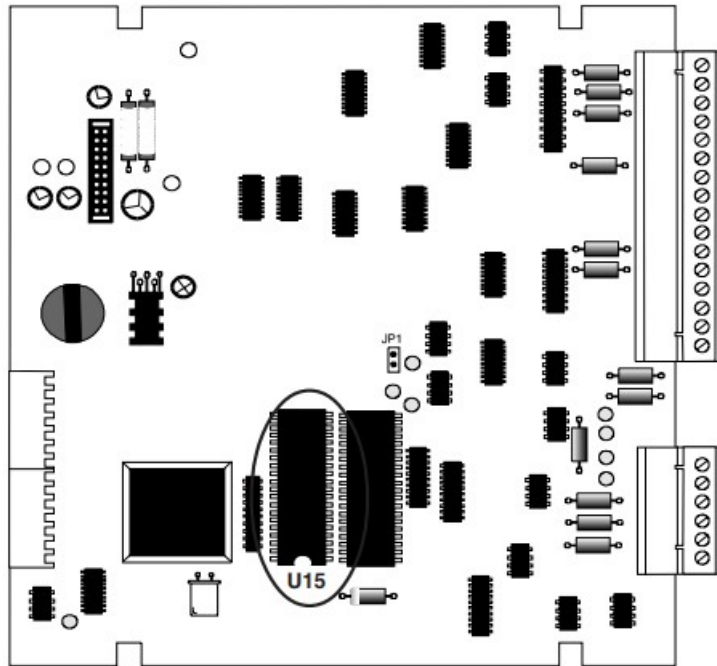


SIB-NET Serial Interface Board

- Open the Display Interface Assembly (DIA) door.
- Using an IC insertion/extraction tool, carefully remove ROM U15 from the SIB-NET and place it on an antistatic surface.
- Observe proper orientation and ensure that none of the pins are bent. Insert the supplied replacement ROM into the socket for U15 on the SIB-NET.
- Close the DIA door.

WARNING: Software must be compatible system-wide. When not completely sure about compatibility, consult the factory before changing ROMs.

AROM(n)-SIB for SIB-2048A

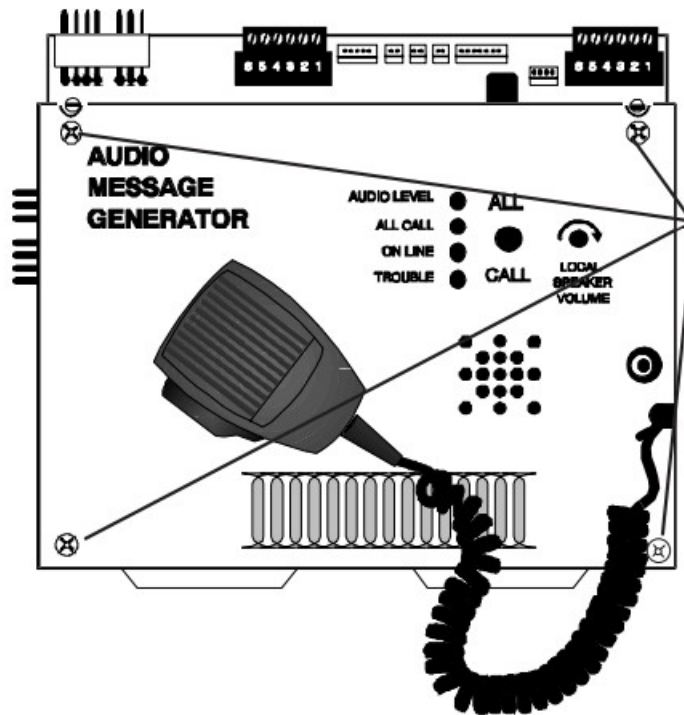


SIB-2048A Serial Interface Board

- Open the Display Interface Assembly (DIA) door.
- Using an IC insertion/extraction tool, carefully remove ROM U15 from the SIB-2048A and place it on an antistatic surface.
- Observe proper orientation and ensure that none of the pins are bent. Insert the supplied replacement ROM into the socket for U15 on the SIB-2048A.
- Close the DIA door.

WARNING: Software must be compatible system-wide. When not completely sure about compatibility, consult the factory before changing ROMs.

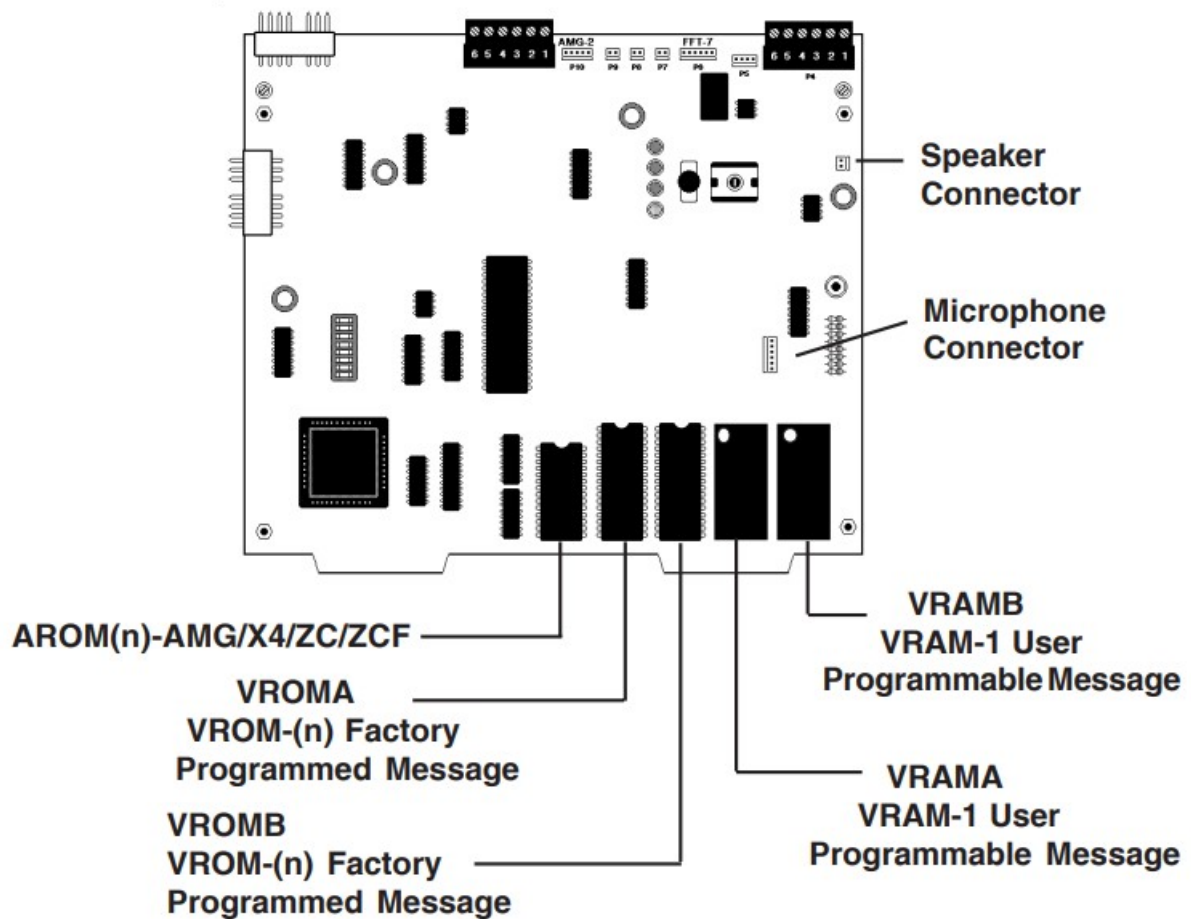
AROM(n)-AMG/X4/ZC/ZCF, VROM-(n) and VRAM-1 for AMG-1



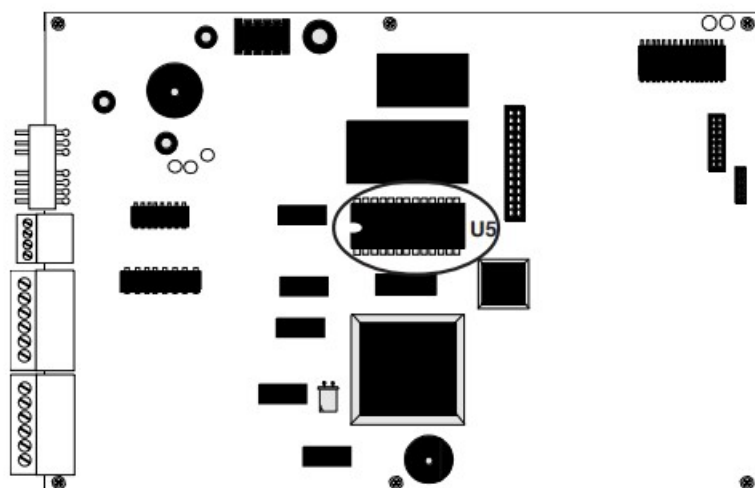
AMG-1 Audio Message Generator

- Remove dress panel covering the AMG-1.
- Remove the four screws that affix the AMG-1's dress plate to the component board as illustrated at left. Remove the dress plate and disconnect the microphone and speaker connectors.
- If replacing ROMs, carefully remove affected chips from the AMG1 using an IC insertion/extraction tool and place them on an antistatic surface.
- Observe proper orientation and ensure that none of the pins are bent. Install the new AROM(n)-AMG/X4/ZC/ZCF, VROM-(n) or VRAM-1 chips in their respective positions as illustrated below.
- Assembly of the AMG-1 is the reverse of removal.

WARNING: Software must be compatible system-wide. When not completely sure about compatibility, consult the factory before changing ROMs.



NROM-INA(n) for INA

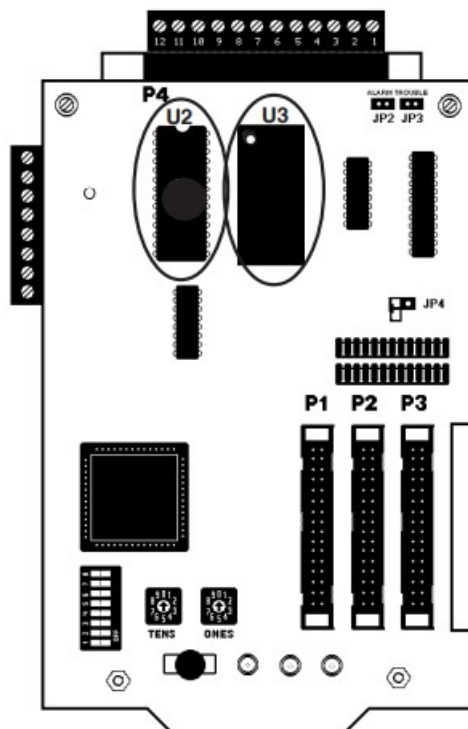


INA Intelligent Network Annunciator

- Open the Intelligent Network Annunciator (INA) door.
- Using an IC insertion/extraction tool, carefully remove ROM U5 from the INA and place it on an antistatic surface.
- Observe proper orientation and ensure that none of the pins are bent. Insert the supplied replacement ROM into the socket for U5 on the INA.
- Close the INA door.

WARNING: Software must be compatible system-wide. When not completely sure about compatibility, consult the factory before changing ROMs.

XRAM-1 for XPP-1



XPP-1 Transponder Processor Module

- Remove the XP Transponder Dress Panel.
- Using an IC insertion/extraction tool, carefully remove RAM U3 from the XPP-1 and place it on an antistatic surface.
- Observe proper orientation and ensure that none of the pins are bent. Insert the supplied XRAM-1 into the socket for U3 on the XPP-1.
- Replace the XP Transponder Dress Panel.

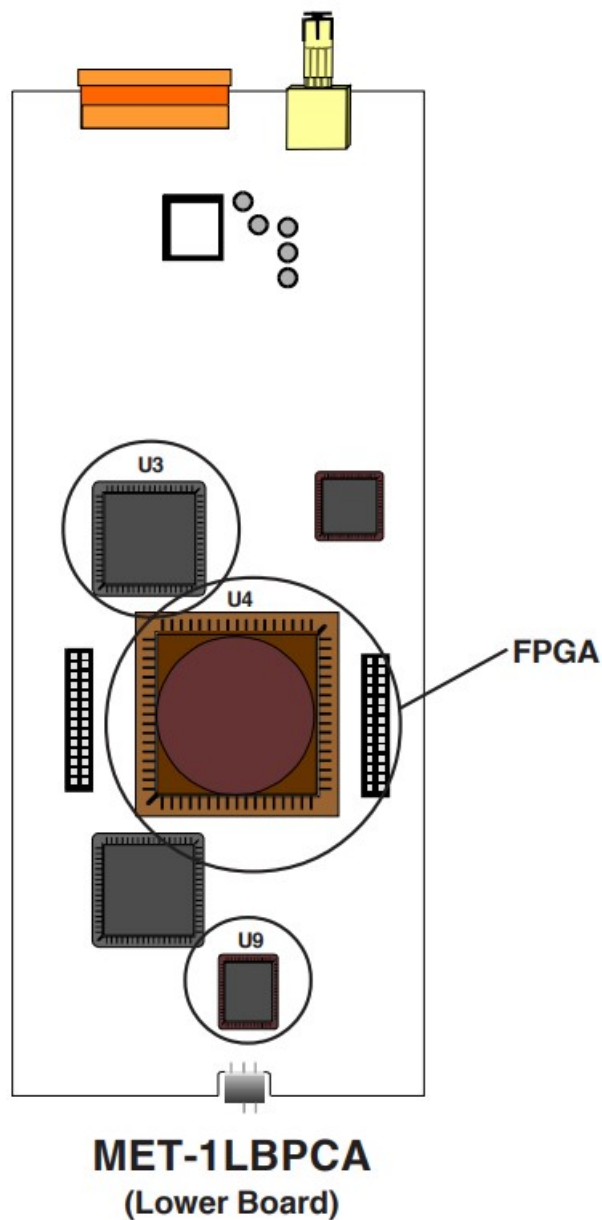
WARNING: Software must be compatible system-wide. When not completely sure about compatibility, consult the factory before changing ROMs.

AROM(n)-XPP for XPP-1

- Remove the XP Transponder Dress Panel.
- Using an IC insertion/extraction tool, carefully remove ROM U2 from the XPP-1 and place it on an antistatic surface.
- Observe proper orientation and ensure that none of the pins are bent. Insert the supplied replacement ROM into the socket for U2 on the XPP-1.
- Replace the XP Transponder Dress Panel.

WARNING: Software must be compatible system-wide. When not completely sure about compatibility, consult the factory before changing ROMs.

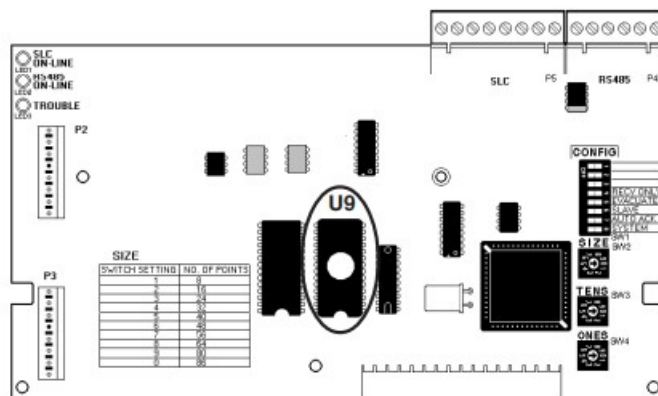
NROM(n)-MET for MET-1



- Disassemble the MET-1 by removing the cover. For the MEDIA(n)-KIT, remove the MET-1 UBPCA upper board also.
- With the power switch in the “Off” position, remove BT1 battery connector.
- Using a PLCC extraction tool, carefully remove IC U9, U3 and U4 from the MET-1LBPC and place them on an antistatic surface.
- Observe proper orientation and ensure that none of the pins are misaligned. Insert the supplied replacement NROM(n)- MET into their correct sockets on the MET-1LBPCA.
- Reassemble the MET-1.

WARNING: Software must be compatible system-wide. When not completely sure about compatibility, consult the factory before changing ROMs.

AROM(n)-NIB for NIB-96

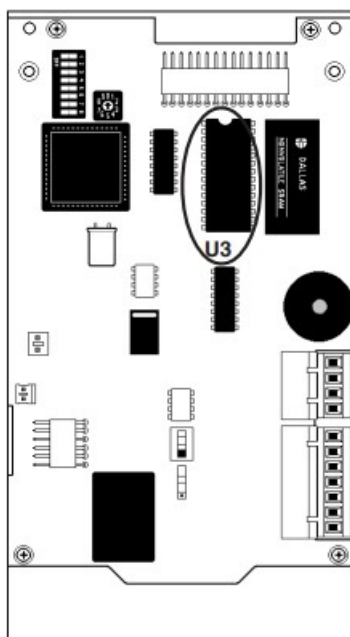


NIB-96 Network Interface Board

- Locate and gain access to the NIB-96 in the cabinet.
- Using an IC insertion/extraction tool, carefully remove ROM U9 from the NIB-96 and place it on an antistatic surface.
- Observe proper orientation and ensure that none of the pins are bent. Insert the supplied replacement ROM into the socket for U9 on the NIB-96.
- Reassemble the control panel.

WARNING: Software must be compatible system-wide. When not completely sure about compatibility, consult the factory before changing ROMs.

AROM(n)-LCD for LCD-80

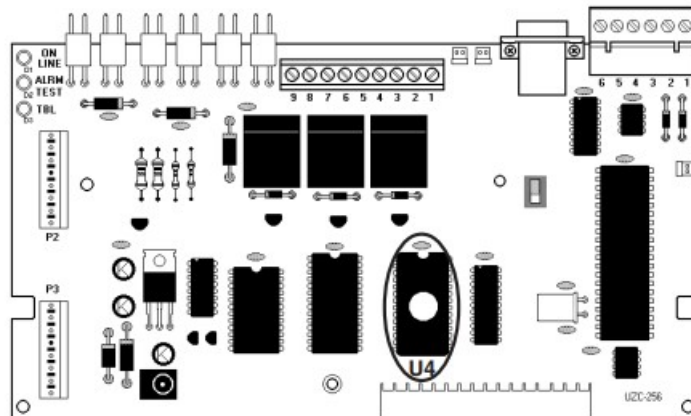


LCD-80 Liquid Crystal Display

- Locate and gain access to the LCD-80 in the cabinet.
- Using an IC insertion/extraction tool, carefully remove ROM U3 from the LCD-80 and place it on an antistatic surface.
- Observe proper orientation and ensure that none of the pins are bent. Insert the supplied replacement ROM into the socket for U3 on the LCD-80.
- Reassemble the control panel.

WARNING: Software must be compatible system-wide. When not completely sure about compatibility, consult the factory before changing ROMs.

AROM(n)-U3C for UZC-256

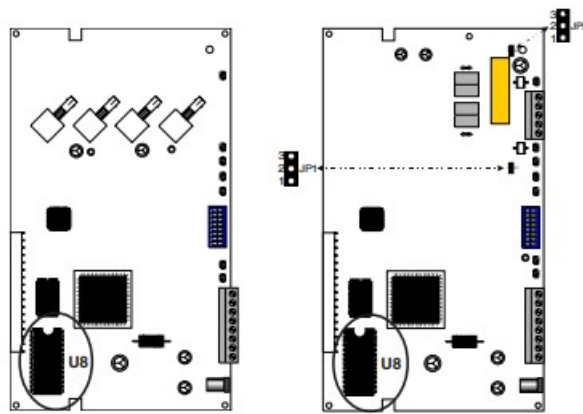


UZC-256 Universal Zone Coder

- Locate and gain access to the UZC-256 in the cabinet.
- Using an IC insertion/extraction tool, carefully remove ROM U4 from the UZC-256 and place it on an antistatic surface.
- Observe proper orientation and ensure that none of the pins are bent. Insert the supplied replacement ROM into the socket for U4 on the UZC-256.
- Reassemble the control panel.

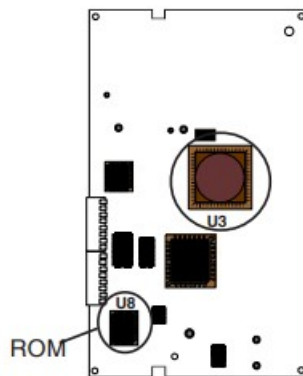
WARNING: Software must be compatible system-wide. When not completely sure about compatibility, consult the factory before changing ROMs.

NROM-NAM(n) for NAM-232F, NAM-232W and NAM-232W/F



NAM-232F
Style A

NAM-232W
Style A



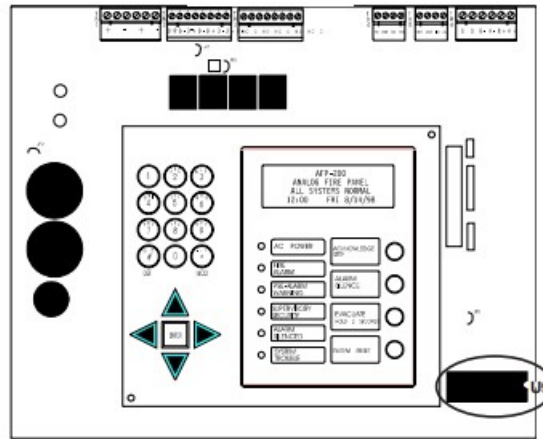
NAM-232W/F
Style C

NAM-232 Network Adapter Modules

- Locate and gain access to the NAM-232 in the cabinet.
- Using an IC insertion/extraction tool for Style A or a PLCC extraction tool for Style C, carefully remove ROM U8 from the NAM-232 and place it on an antistatic surface.
- Observe proper orientation and ensure that none of the pins are bent. Insert the supplied replacement ROM into the socket for U8 on the NAM-232.
- Reassemble the control panel.

WARNING: Software must be compatible system-wide. When not completely sure about compatibility, consult the factory before changing ROMs.

AFP-200 IC for use with NAM-232

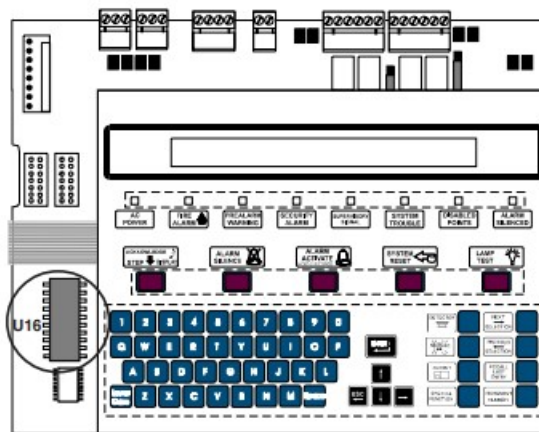


AFP-200 Analog Fire Panel

- Locate and gain access to the AFP-200 in the cabinet.
- Using an IC insertion/extraction tool, carefully remove ROM U9 from the AFP-200 and place it on an antistatic surface.
- Observe proper orientation and ensure that none of the pins are bent. Insert the supplied replacement ROM into the socket for U9 on the AFP-200.
- Reassemble the control panel.

WARNING: Software must be compatible system-wide. When not completely sure about compatibility, consult the factory before changing ROMs.

AFP-300/400 IC for use with NAM-232



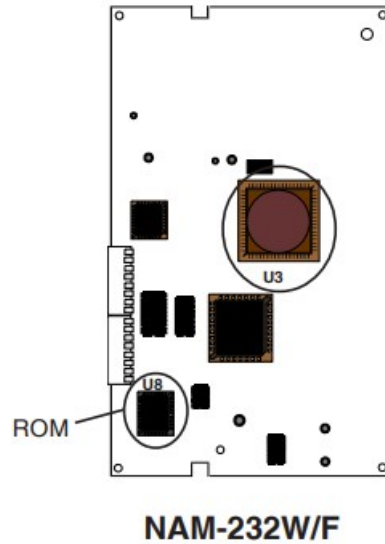
Afp400b0.wmf

AFP-300/400 Analog Fire Panel

- Locate and gain access to the AFP-300/400 in the cabinet.
- Using an IC insertion/extraction tool, carefully remove ROM U16 from the AFP-300/400 and place it on an antistatic surface.
- Observe proper orientation and ensure that none of the pins are bent. Insert the supplied replacement ROM into the socket for U16 on the AFP-300/400.
- Reassemble the control panel.

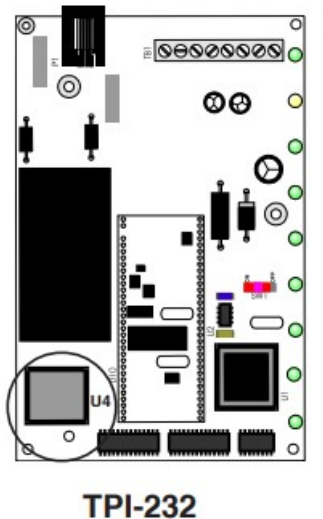
WARNING: Software must be compatible system-wide. When not completely sure about compatibility, consult the factory before changing ROMs.

MEDIA(n)-KIT for NAM-232W/F



- Locate and gain access to the NAM-232 in the cabinet.
- Using a PLCC extraction tool, carefully remove FPGA U3 from the NAM-232 and place it on an antistatic surface.
- Observe proper orientation and ensure that none of the pins are misaligned. Insert the supplied replacement FPGA into the socket for U3 on the NAM-232.
- Reassemble the control panel.

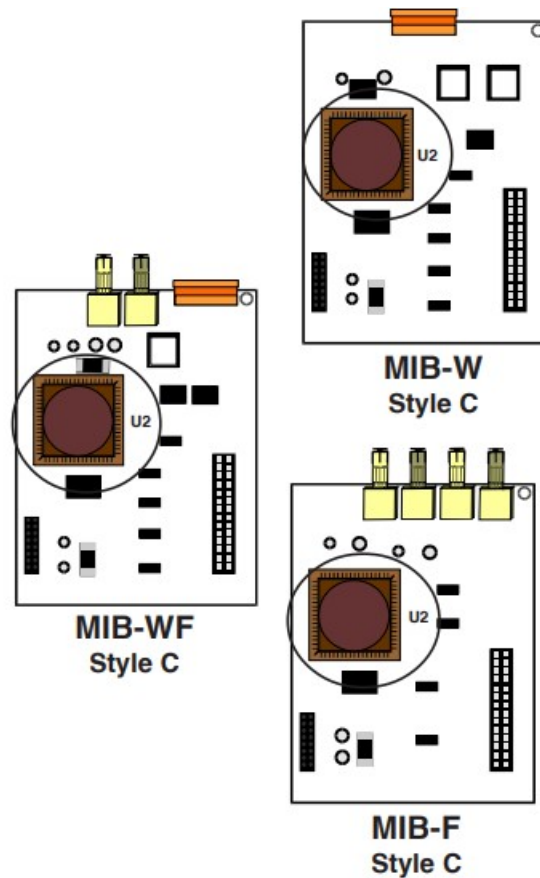
ROM(n)-TPI for TPI-232



- Locate and gain access to the TPI-232.
- Using a PLCC extraction tool, carefully remove ROM U4 from the TPI-232 and place it on an antistatic surface.
- Observe proper orientation and ensure that none of the pins are misaligned. Insert the supplied replacement ROM into the socket for U4 on the TPI-252.
- Reassemble TPI-232 setup.

WARNING: Software must be compatible system-wide. When not completely sure about compatibility, consult the factory before changing ROMs.

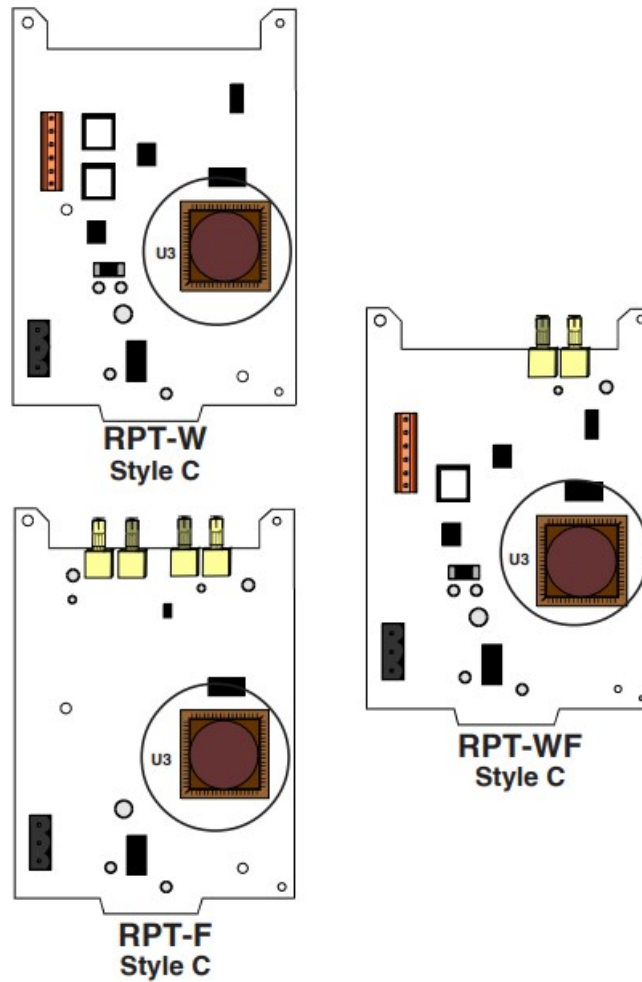
MEDIA(n)-KIT for MIB-W/WF/F



- Locate and gain access to the MIB-W/WF/F.
- Using a PLCC extraction tool, carefully remove FPGA U2 from the MIB and place it on an antistatic surface.
- Observe proper orientation and ensure that none of the pins are misaligned. Insert the supplied replacement FPGA into the socket for U2 on the MIB W/WF/F.
- Reassemble the MIB.

WARNING: Software must be compatible system-wide. When not completely sure about compatibility, consult the factory before changing ROMs.

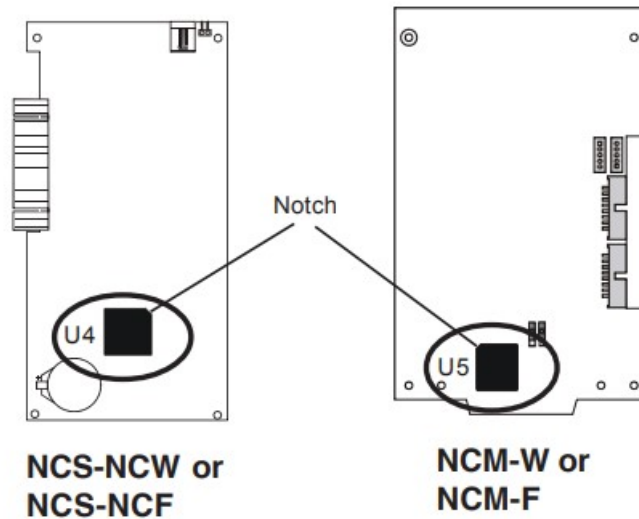
MEDIA(n)-KIT for RPT-W/WF/F



- Locate and gain access to the RPT-W/WF/F.
- Using a PLCC extraction tool, carefully remove FPGA U3 from the RPT and place it on an antistatic surface.
- Observe proper orientation and ensure that none of the pins are misaligned. Insert the supplied replacement FPGA into the socket for U3 on the RPT-W/WF/F.
- Reassemble the RPT.

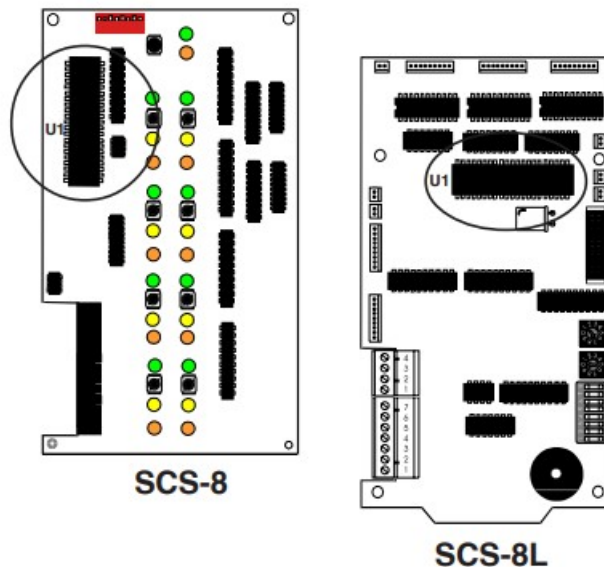
WARNING: Software must be compatible system-wide. When not completely sure about compatibility, consult the factory before changing ROMs.

ROM(n)-NCM for NCM-W, NCM-F, NCS-NCW, and NCS-NCF



- Locate and gain access to the network card. Open the NCS computer for NCS network cards.
- Using a PLCC extraction tool, carefully remove U4 (NCS) or U5 (NCM) from the board and place it on an antistatic surface.
- Observe proper orientation and ensure that none of the pins are misaligned. Insert the supplied replacement ROM(n)-NCM into the socket for U4 or U5


ROM(n)-SCS for SCS-8 and SCS-8L



- Locate and gain access to the SCS-8/SCS-8L. To gain access to the SCS-8 remove the cover first.
- Using a IC insertion/extraction tool, carefully remove IC U1 from the SCS-8/SCS-8L board and place it on an antistatic surface.
- Observe proper orientation and ensure that none of the pins are misaligned. Insert the supplied replacement ROM(n)-SCS into the socket for U1 on the SCS.
- Reassemble the SCS.

WARNING: Software must be compatible system-wide. When not completely sure about compatibility, consult the factory before changing ROMs.

Documents / Resources

	<p>NOTIFIER AFP-1010 Fire Alarm Control Panels [pdf] User Manual AM2020, AFP-1010, AFP-200, AFP-300-400, AFP-1010 Fire Alarm Control Panels, AFP-1010, Fire Alarm Control Panels, Alarm Control Panels, Control Panels, Panels</p>
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References

-  [Fire Alarm Resources | Download fire alarm documents](#)
-  [Home \(USA\) | NOTIFIER by Honeywell | Engineered Fire Alarm System.](#)

Manuals+.