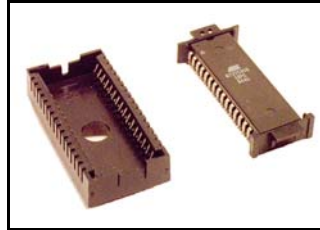# Changing the Firmware EPROM in Alpha© 7000 Signs

Alpha® signs have an internal EPROM that is used to control the sign. From time to time, the firmware in this EPROM is updated and the EPROM should be changed.

EPROM

Before you begin

Safety

Before you begin to change a sign's EPROM, or start any other procedure involving disassembly of the sign, always disconnect the power connection to the sign.
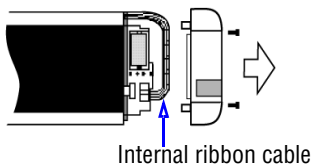
> **WARNING!** Hazardous voltage. Contact with high voltage may cause death or serious injury. Always disconnect power to unit prior to servicing.

Notice: Alpha® signs contain components that may be damaged by "static electricity", or electrostatic discharge. Observe appropriate precautions to prevent electrostatic discharge (ESD) or "static" damage to the replacement part. For safe handling of ESD-sensitive parts, see TechMemo #00-0005.
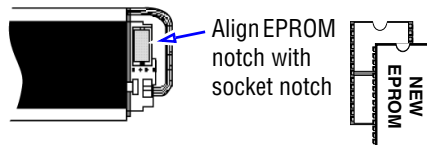
Replacement instructions for Series 7000
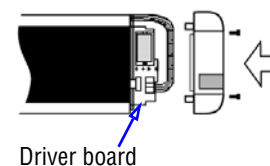
Applicable to 7120C, 7160C, 7200C models.

1. Remove power from the sign. Then use a screwdriver to remove the two screws that hold the end cap to the sign (as shown):

Internal ribbon cable

2. Carefully pry out the sign's EPROM using a small screwdriver. Insert the new EPROM in the empty socket.

Align EPROM notch with socket notch

NEW EPROM

3. Move the internal ribbon cable forward from the edge of the driver board. Replace the end cap, as shown below.
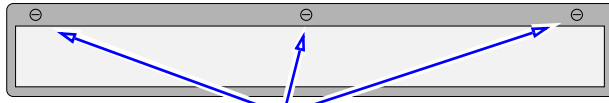

Driver board

Replacement Instructions for NEMA 4 Series 7000

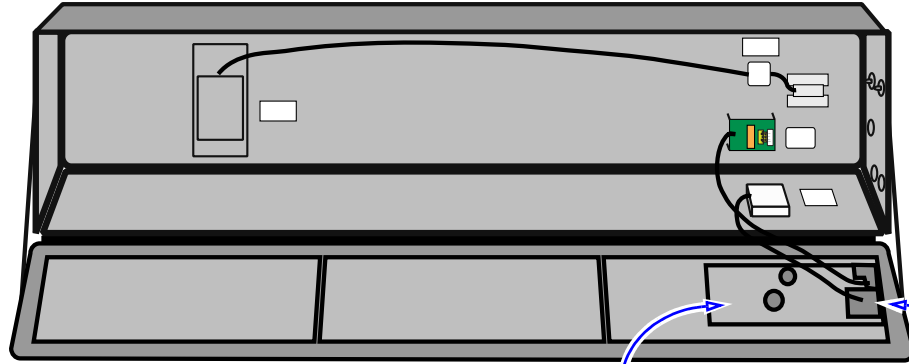## Applicable to N047120C, N047160C, N047200C)

1. Open the front of the sign case by turning the quarter-turn latches to the left with a large screwdriver or a coin. (On the N047120, there are 2 quarter-turn latches; on the N047160 and the N047200, there are 3.) Carefully lower the front of the case forward.

Front view, closed

Quarter-turn latches
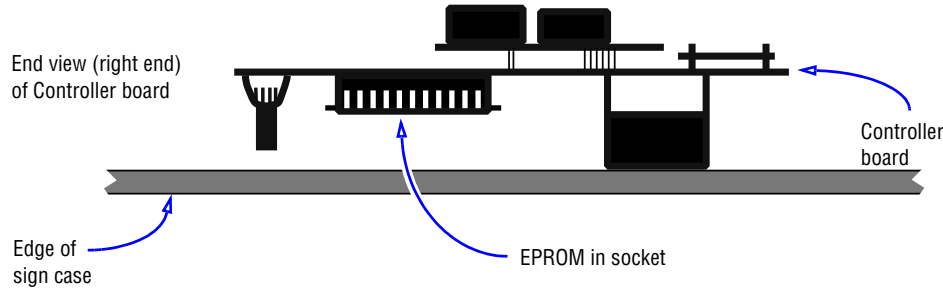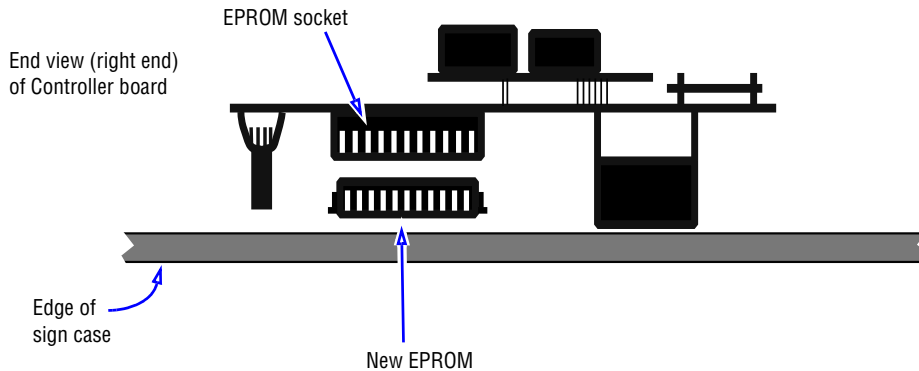on an N047200 sign

Front view, open

Controller board

EPROM unit (on underside of board)

2. Carefully pry out the sign's EPROM using a small screwdriver. Insert the new EPROM in the empty socket.

End view (right end) of Controller board

Controller board

Edge of sign case

EPROM in socket

3. Matching the side notch of the new EPROM to the socket, press the new EPROM firmly into the socket.

EPROM socket

End view (right end) of Controller board

Edge of sign case

New EPROM

4. Carefully close the front of the sign and turn the quarter-turn latches to the right with a large screwdriver or a coin.