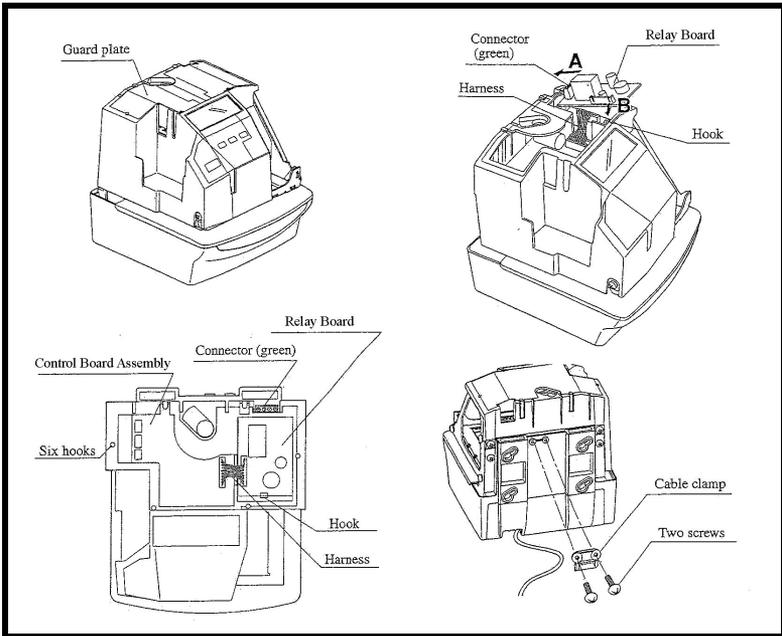


# Installing the 5000E Plus Relay Board

Part Number: E5P-R30

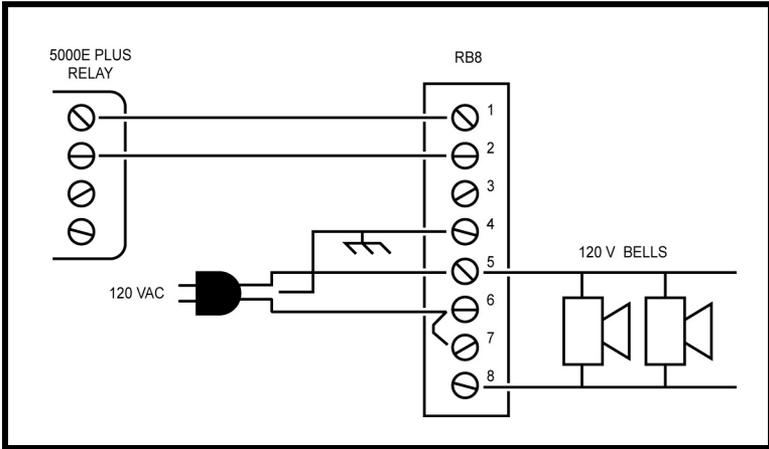


**CAUTION:** Be sure to disconnect all devices from AC outlets before installation. Improper connection may cause malfunction of the unit.

1. Unlock with key and remove the cover. Remove the guard plate by releasing from the six hooks.
2. Connect the harness to the control board assembly. Then, insert the connector (green) of the relay board into the hole in direction A. Push the relay board in direction B until it snaps into hook.
3. Re-attach the guard plate into the six hooks. Attach the cable clamp to the back of the 5000E Plus with two screws. Replace the cover and lock.

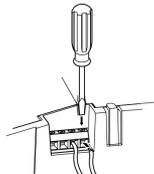
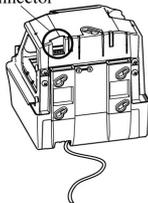
# Connecting 115V Signal Devices

*Requires Lathem RB8 – Relay Booster and 115V signal devices sold separately.*



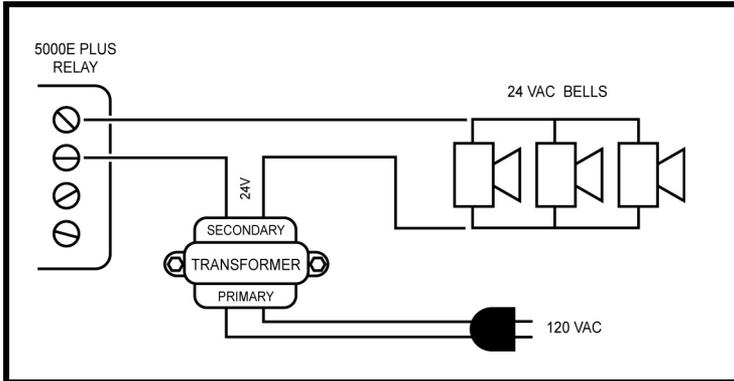
1. Install relay board in 5000E Plus (see previous instructions).
2. Install 115V bells or horns in desired locations.
3. Install RB8 relay booster.
4. Connect jumper between terminals 6 & 7 in RB8.
5. Connect wires from terminals 1 & 2 in RB8 to 5000E Plus (see User's Guide).
6. Connect wires from terminals 5 & 8 in RB8 to bell.
7. Connected paired wire to additional bells.
8. Program bell schedule (see User's Guide).

connector

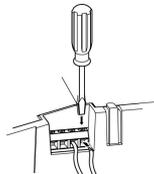
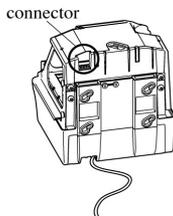


# Connecting 24V Signal Devices

*Requires UL approved 24V transformer and 24V signal devices sold separately.*

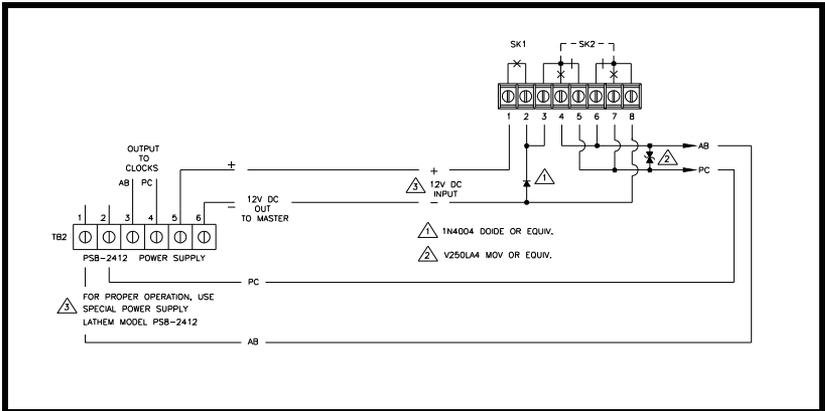


1. Install relay board in 5000E Plus (see previous instructions).
2. Install 24V bells in desired locations.
3. Install UL approved transformer.
4. Connect first wire from 5000E Plus to transformer output.
5. Connect second wire from 5000E Plus to first connector on bell.
6. Connect second wire on transformer output to second connector on bell.
7. Connect paired wire to additional bells.
8. Program bell schedule (see User's Guide).



# Synchronizing to Master Clock

*Requires Lathem Master Clock programmed to support 2-wire 59<sup>th</sup> minute impulse correction and PS8-24 24VDC power supply sold separately.*



**Wiring Diagram for Lathem LTR-512 Master Clocks Shown**

1. Install relay board in 5000E Plus (see previous instructions).
2. Install master clock and 5000E Plus' in desired locations.
3. Connect wires between the master clock and the PS8-24 power supply according the master clock's user's manual.
4. Connect wires between the master clock and 5000E Plus' (see User's Guide).
5. Set time on the 5000E Plus (see User's Guide).

**IMPORTANT NOTE:** Time on 5000E Plus must be initially set within 5 minutes of master clock for proper time synchronization.

connector

