

**SYSTEM/MODEL:** NEM

**MODIFICATION:** Timer/Clock Relay to activate tone generator through NEM

**DIFFICULTY LEVEL:** 2 - Easy/moderate - Component connection to external points.

**COMPONENTS REQUIRED:**

1. NB-U: Background Music adapter
2. PG-10A: 10W, 25V amplifier
3. Tone generator (Not supplied by Aiphone)

**INSTR/OPERATIONS:**

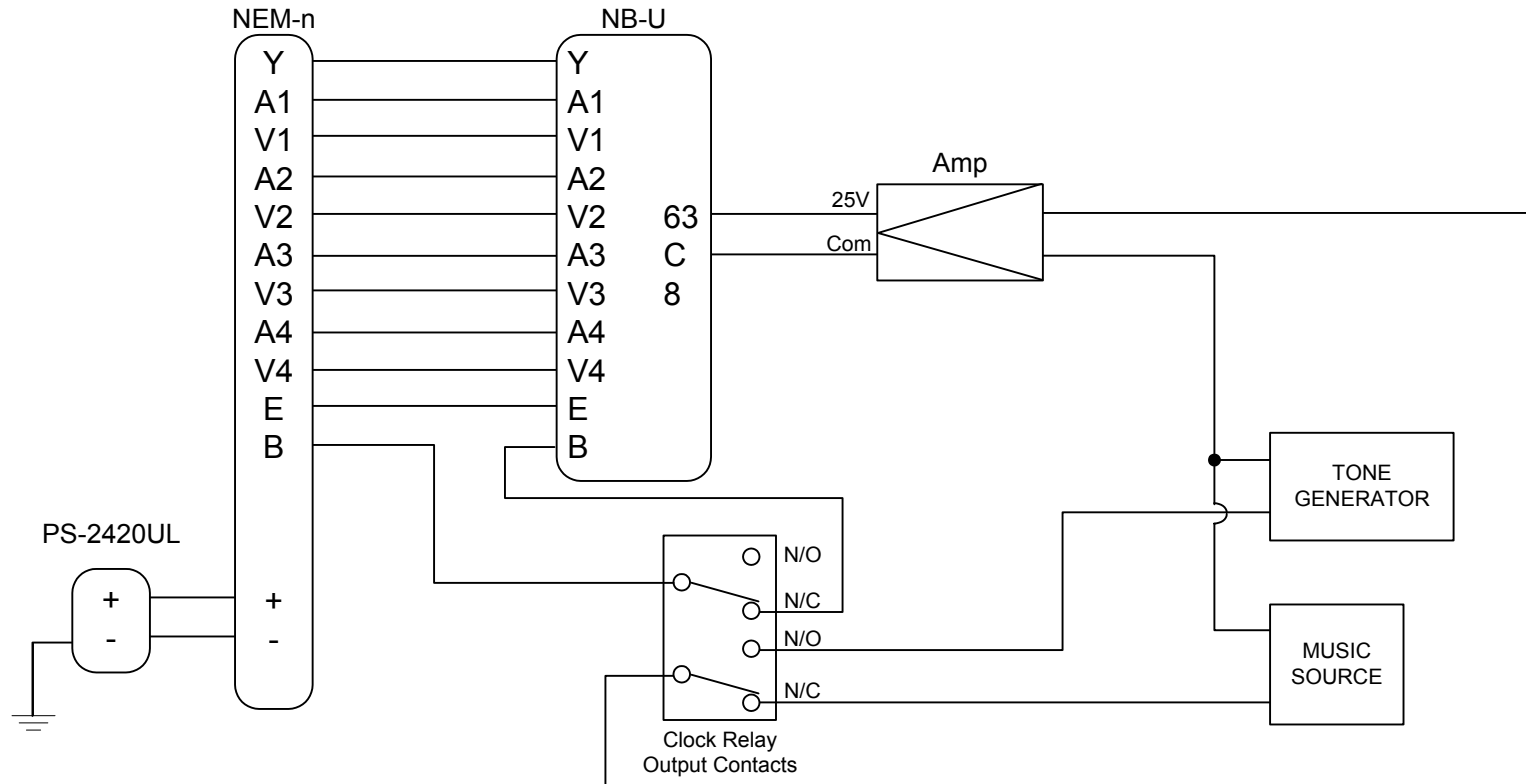
1. Connect clock or timer relay contacts as shown on diagram (DPDT contacts).
2. Connect tone generator output to N/O side of clock relay. Connect negative of music source and chime generator to "E" of PG-10A amplifier. Connect BGM source output to N/C side of clock relay.
3. Connect "B" terminal from NB-U to common pole of relay, and N/C side to "B" terminal of master station.
4. See note on drawing for explanation of system operation.

**REFERENCE DRAWING #:** 0998-619

Aiphone's product warranty applies to products properly modified using these instructions.  
However, if a unit is damaged as a result of improper modification, the warranty does not apply.

## MODIFICATION DIAGRAM

### TIMER/CLOCK RELAY TO ACTIVATE TONE GENERATOR THROUGH NEM



#### NOTES:

1. With the relay output in the position shown and the master in the "standby mode", the music will be distributed to the sub stations. When the master is making an All Call or in communication with any sub, the music will be muted.
2. When the clock relay or timer is activated, the music will be muted and the signal from the tone generator will be distributed to the sub stations. This will have priority over communication or All Call.
3. If the clock does not have a double pole double throw relay, an external relay must be used.
4. Amplifier input must match the output of the tone generator and music source

Drawing Name:  
619-NEM-Tone inp  
Drawing # 0998-619