



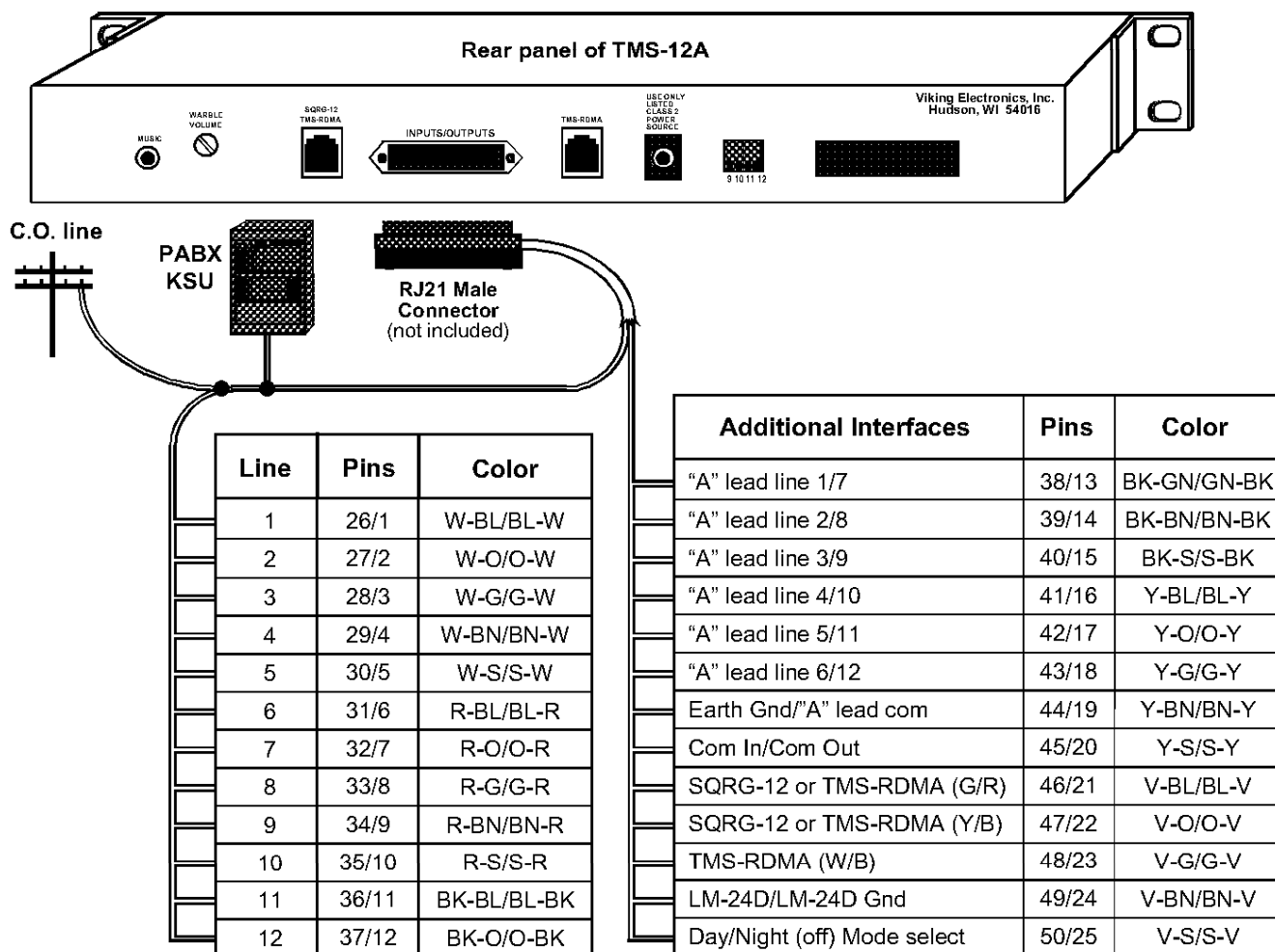
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# INSTALLATION

## A. Telephone Wiring

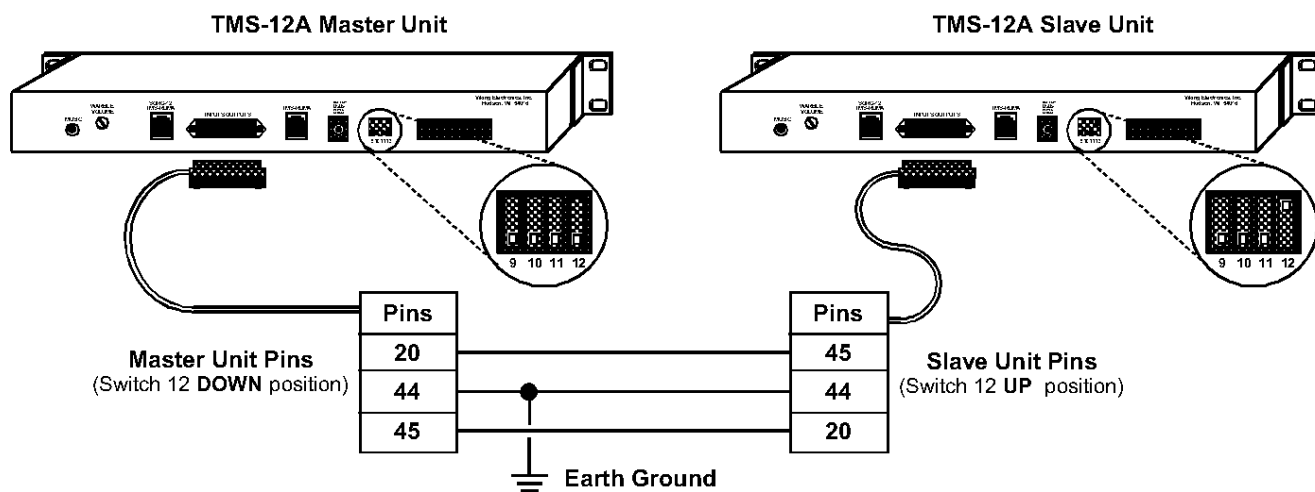
The TMS-12A must be installed in parallel on 1 to 12 lines as shown below.



## B. Master/Slave Wiring

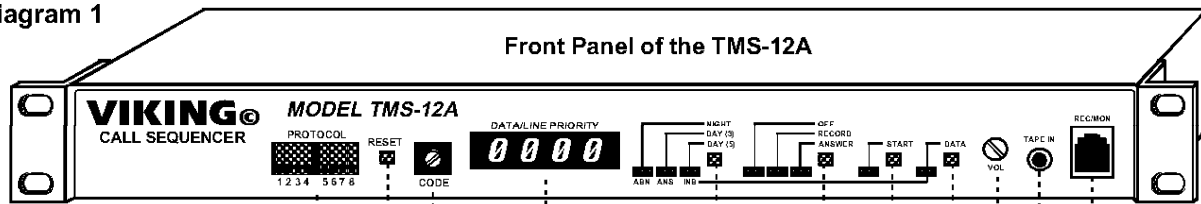
Using an additional TMS-12A configured as a slave, up to 24 lines can be sequenced. In the master/slave configuration, all recordings, statistics, remote access and answer protocols are handled independently between master and slave.

To enable a TMS-12A to be a slave unit, set switch 12 to the up position, "SL" will be displayed on the display. The slave lines will be displayed as lines 13 - 24 on the master TMS-12A, TMS-RDMA or the LM-24D. The pins shown below must be tied together for master/slave operation.



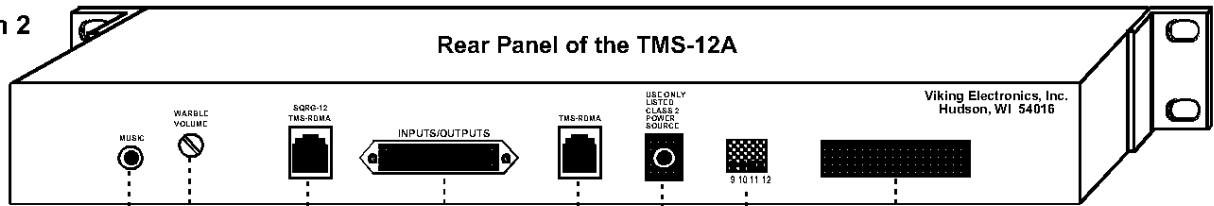
# PROGRAMMING

Diagram 1



- Special Operating Modes
- Processor/Data Reset
- Security Code Select
- Data/Line Priority/Record Time Display
- NIGHT/DAY(3)/DAY(5)
- OFF/RECORD/ANSWER Switch
- Handset Jack
- Tape In Jack
- Playback Volume
- Data Switch
- Start/Stop Switch

Diagram 2

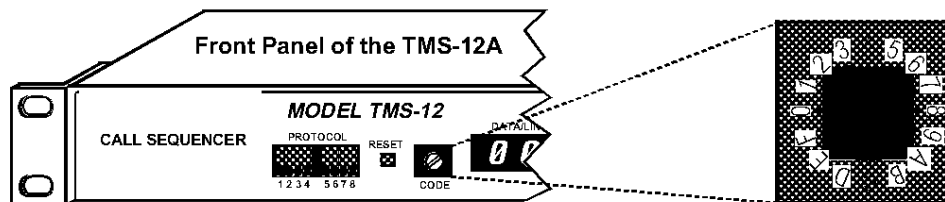


- Music on Hold Input
- Warble Volume
- SQRG-12/TMS-RDMA Output
- 25 Pair line/Auxiliary Function Connector
- Optional Comm Port
- Special Operating Modes
- 13.8V AC Power Input
- Second TMS-RDMA Output

## A. Security Code

The security code is used to gain access to remote programming and recording through line 12 only. To change the security code, set the 16-position rotary **CODE** switch on the front of the unit to positions "1" through "9" only. This will be your security code.

See sections **D. Recording/Playback** and **E. Answer Protocols** for more information on remote programming and recording.



## B. PROTOCOL Switches (see front panel of the TMS-12A)

Switch	Position	Description
1	Up	The ring delays are 1 and 2 in respect to the answer protocols ( <b>DAY(3) = 1, DAY(5) = 2, NIGHT = 1</b> )
	Down*	Normal ring delays ( <b>DAY(3) = 3, DAY(5) = 5, NIGHT = 3</b> )
2	Up*	Only the oldest call will be released from the <b>TMS-12A</b>
	Down	The <b>TMS-12A</b> will release any call
3	Up	The optional <b>SQRG-12</b> will re-ring all lines being sequenced on the <b>TMS-12A</b>
	Down*	The optional <b>SQRG-12</b> will re-ring only the oldest line being sequenced on the <b>TMS-12A</b>
4	Up	Lower fidelity announcements
	Down*	Highest fidelity announcements

\* = Default Setting

Continued...

**Note:** Whenever switch 3 is in the up position to re-ring all lines through the optional **SQRG-12**, switch 2 on the **TMS-12A** front panel must be in the down position.

...Continued

Switch	Position	Description
5	Up	"Call Screening" mode. Calls are not displayed or re-rang until call has heard entire greeting message.
	Down*	All calls are displayed in the sequence they ring in.
6	Up	Unused
	Down*	Normal operating position.
7	Up	Optional auxiliary "off" operation.
	Down*	Optional auxiliary "night" operation.
8	Up	Optional auxiliary night/off operation is disabled.
	Down*	Optional auxiliary night/off operation is enabled.

\* = Default Setting

*Note:* When the auxiliary Night/Off mode is active, the front panel switches are disabled.

### C. Special Operating Mode Switches (see rear panel of the TMS-12A)

Switch	Position	Description
9	Up	"Barge-In" mode. All lines will be answered on the selected ring delay and will hear the greeting at any point in the message, but will hear the entire message at least once.
	Down*	Normal call sequencing.
10	Up	Used with the <b>TMS-STATS</b> package ( <b>Fax Back Document 080</b> ).
	Down*	Normal operating position.
11	Up	Optional <b>SQRG-12</b> ring generator mode is selected ( <b>Fax Back Document 060</b> ).
	Down*	Optional <b>TMS-RDMA</b> remote display mode is selected ( <b>Fax Back Document 075</b> ).
12	Up	Slave mode.
	Down*	Master mode.

\* = Default Setting

### D. Recording/Playback

#### 1. Local Recording

*Note:* All announcements must be recorded at the same time.

- a. Plug a carbon handset into the **REC/MON** jack or plug a tape player into the **TAPE IN** jack (see **Diagram 1**).
- b. Select the record mode by pressing **OFF/RECORD/ANSWER** switch until the LED indicates the record mode (**RECORD**) is selected (see **Diagram 1**).
- c. Select the announcement to be recorded (Greeting, Pacifier or Night) by pressing **NIGHT/DAY(3)/DAY(5)** button until the LED indicates the desired announcement (see **Diagram 1**).
  - NIGHT** - Night message
  - DAY(3)** - Greeting message
  - DAY(5)** - Pacifier message
- d. Momentarily press the **START** switch and begin talking into the handset or press play on the tape player.
- e. When finished recording, momentarily press the **START** switch.
- f. Record the remaining announcements by repeating steps **c - e**.

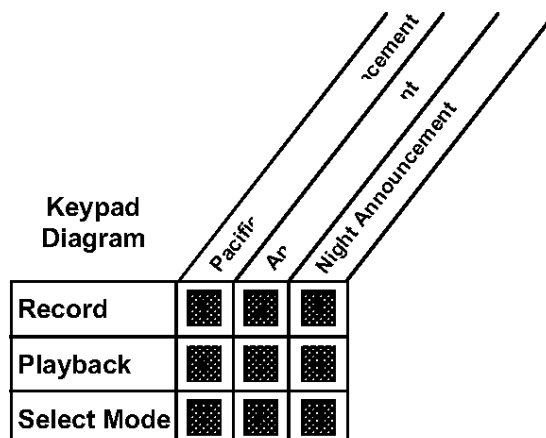
*Note:* As the message is being recorded, the display will increment to show the amount of record time being used. After a recording has been made, an "r" will appear in front of the record time for that message to show that it has been recorded.

#### 2. Local Playback

- a. Set **OFF/RECORD/ANSWER** switch to off.
- b. Set **NIGHT/DAY(3)/DAY(5)** switch to the desired message.
- c. Momentarily press the **START** switch.

### 3. Remote Recording

- a. Call line 12 of the **TMS-12A** using a Touch Tone phone, when the unit answers, enter a **\***.
- b. When the recording stops, enter "7" followed by the security code (see **Programming** section A).
- c. Enter a Touch Tone (1 - 3) to select an announcement to record (see **Keypad Diagram** to the right).
- d. Begin recording your announcement.
- e. Press # when finished.
- f. Repeat steps c - e to record the other announcements.
- g. Enter **\*1** to exit the remote access mode.
- h. Hang up and the **TMS-12A** will return to normal operation.



**Notes:** If you neglect to dial **\*1** before hanging up from the remote mode, and the **TMS-12A** line 12 position is connected to PABX extension or a loop start CO line that does not provide disconnect supervision (CPC), line 12 will not be released from the **TMS-12A** for ten minutes after you have hung up. In the Off mode, the **TMS-12A** will still answer line 12 but will not play the Greeting message.

### 4. Remote Playback

- a. Call line 12 of the **TMS-12A** using a Touch Tone phone, when the unit answers, enter a **\***.
- b. When the recording stops, enter "7" followed by the security code (see **Programming** section A).
- c. Enter a Touch Tone (4 - 6) to select an announcement to playback (see keypad diagram above).
- d. The **TMS-12A** will playback the announcement.
- e. Enter **\*1** to exit the remote access mode.
- f. Hang up and the **TMS-12A** will return to normal operation.

**Notes:** If you neglect to dial **\*1** before hanging up from the remote mode, and the **TMS-12A** line 12 position is connected to PABX extension or a loop start CO line that does not provide disconnect supervision (CPC), line 12 will not be released from the **TMS-12A** for ten minutes after you have hung up. In the Off mode, the **TMS-12A** will still answer line 12 but will not play the Greeting message.

## E. Answer Protocols

### 1. Local Programming

- a. Select the answer mode by pressing **OFF/RECORD/ANSWER** switch until the LED indicates the "Answer" mode is selected.
- b. Select the answer protocol by pressing **NIGHT/DAY(3)/DAY(5)** switch until the LED indicates the desired protocol as described below.
  1. **NIGHT** mode - Incoming calls will be answered on three rings, the night announcement will be played, and then the call is released.
  2. **DAY(3)** mode - Incoming calls will be answered on three rings, the answer announcement will be played and then the call will be placed on hold.
  3. **DAY(5)** mode - Incoming calls will be answered on five rings, the answer announcement will be played and then the call will be placed on hold.

### 2. Remote Programming

- a. Call line 12 of the **TMS-12A** using a Touch Tone phone, when the unit answers, enter a **\***.
- b. When the recording stops, enter "7" followed by the security code (see **Programming** section A).
- c. Enter **7** for **DAY(5)**, **8** for **DAY(3)** or **9** for **NIGHT**.
- d. The **TMS-12A** will confirm your selection by playing the selected announcement.
- e. Enter **\*1** to exit the remote access mode.
- f. Hang up and the **TMS-12A** will return to normal operation.

**Notes:** If switch 1 on the front panel of the **TMS-12A** is in the down position, the ring delays for Touch Tones 7 and 8 will be 5 and 3 respectively. If switch 1 is in the up position, these Touch Tones will set the ring delays to 2 and 1 respectively. If you neglect to dial **\*1** before hanging up from the remote mode, and the **TMS-12A** line 12 position is connected to PABX extension or a loop start CO line that does not provide disconnect supervision (CPC), line 12 will not be released from the **TMS-12A** until ten minutes after you have hung up. In the Off mode, the **TMS-12A** will still answer line 12 but will not play an answering message.

### 3. Automatic Night/Day Mode

The **TMS-12A** will change into the Night answer mode (switch 7 down) or Off mode (switch 7 up) when 9 - 15 volts AC or DC is applied across pins 25 and 50.

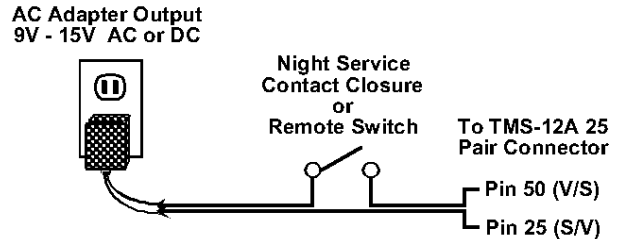
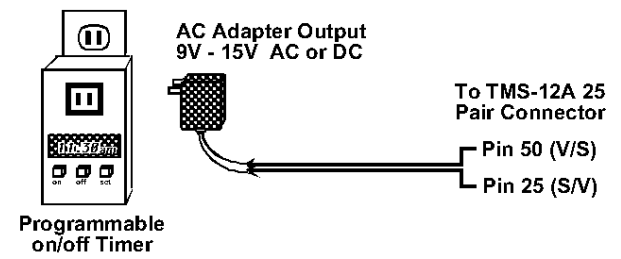
An "A" will be displayed and except for statistics, front panel switches are disabled on the **TMS-12A** while in the auxiliary Night/Off mode. See the diagram to the right.

#### a. Automatic Timer

For automatic Night/Off mode, add a programmable timer (Radio Shack part # 61-1065 or equivalent) and a 9-15 volt AC or DC power supply. See the diagram to the right.

#### b. Night Service Contact Closure

For a manual Night answer mode (switch 7 down) or Off mode (switch 7 up), add a contact closure from the PABX or a switch at the receptionist's desk.



## F. Turning the TMS-12A On or Off

### 1. Local Programming

Push the **OFF/RECORD/ANSWER** switch until the **OFF**, **RECORD** or **ANSWER** LED lights.

### 2. Remote Programming

- Call line 12 of the **TMS-12A** using a Touch Tone phone, when the unit answers, enter a **\***.
- When the recording stops, enter "7" followed by the security code (see **Programming** section D).
- Enter **\*2** to place the **TMS-12A** in the Off mode.
- Enter **\*3** to place the **TMS-12A** in the On ("Answer") mode.
- Enter **\*1** to exit the remote access mode.
- Hang up and the **TMS-12A** will return to normal operation.

**Notes:** If you neglect to dial **\*1** before hanging up from the remote mode, and the **TMS-12A** line 12 position is connected to PABX extension or a loop start CO line that does not provide disconnect supervision (CPC), line 12 will not be released from the **TMS-12A** until ten minutes after you have hung up. In the Off mode, the **TMS-12A** will still answer line 12 but will not play an answering message.

### 3. Automatic Off/On Mode

The **TMS-12A** will change into the Night answer mode (switch 7 down) or Off mode (switch 7 up) when 9 - 15 volts AC or DC is applied across pins 25 and 50.

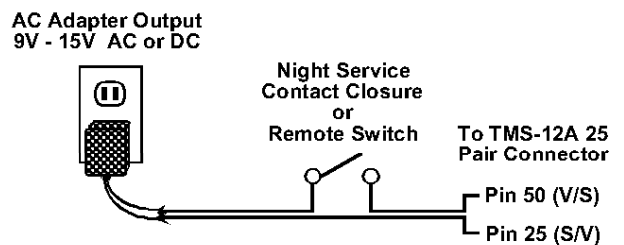
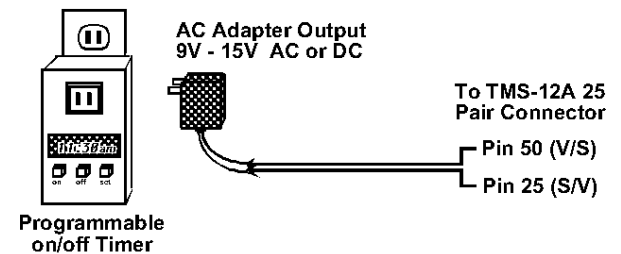
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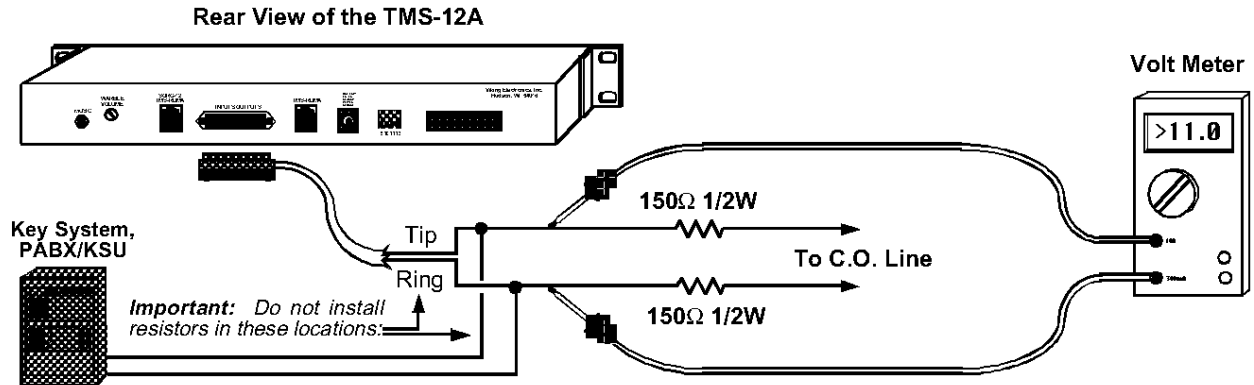


## G. Common Audible

- To eliminate confusion in key system applications, disable the ringer or program the attendant's phone not to ring. The **TMS-12A** will provide common audible if installed near the receptionist.
- On incoming calls, the **TMS-12A** will provide a single warble tone every 4 seconds.
- Once a line is answered by the **TMS-12A**, a double warble tone is provided.
- Warble volume can be adjusted by the potentiometer (marked **WARBLE**) on the back panel of the **TMS-12A**.



1. Measure the voltage across tip and ring when the key system or PABX has seized the line. The voltage must be less than 11 volts for the **TMS-12A** to recognize that the key system or PABX has gone off-hook and that it should release the line.
2. If the voltage is greater than 11 volts, install (2) 150 ohm, 1/2 watt resistors (included) in series with both tip and ring as shown below.



3. Recheck the voltage as shown above. If it is greater than 11 volts, contact Technical Support at (715) 386-8666.  
**Note:** Have the voltage readings from before and after the resistors were installed available when calling Technical Support.