 <b>SERVICE BULLETIN</b>	model number ALL UNITS	bulletin number 00014
	for serial numbers ALL UNITS	
	subject QUIET PLAYING	
	technical services approval <i>J. R. Thomas</i>	writer <i>J. R. T.</i>
	engineering approval <i>J. R. Thomas</i>	date 7/16/79

## USES OF PIANOCORDER REPRODUCING SYSTEM


Since many owners of PIANOCORDER Reproducing System equipped pianos are using the instrument to provide incidental background music for dining or at cocktail parties and not as an instrument in concert or a focal point in the home, lounge or restaurant, it is necessary to make the piano play quiet. Below are some suggestions.

1. Regulate the piano so that the hammer responds with the least amount of energy applied to the key manually. You can regulate to make the action easier by assuring that unessential friction is removed. Some technicians have added lead "jiffy" weights to the keys to make the action easier. Others have changed the hammer travel to as close as  $1\frac{1}{4}$ ".
2. Since the system is playing the piano musically, the musicality of the performance of the piano is the end result of all installation and alignment efforts. Therefore, after the alignment procedures in the manual are done using the test tape and alignment equipment it is recommended that you set the Bass Minimum and Treble Minimum Controls on the Playback Logic Board using your ear as a musician would listen to the performance, with Music being played.

Align the system to the piano to assure that the system plays the piano as soft as it can be played manually. Follow the procedures outlined in the Installation and Field Service Manual and check by doing the following:

- A. Play Side A Cassette (PR-323) Candelight and Wine or an equivalent low expression prerecorded tape.
- B. Turn the Pianissimo and Fortissimo Controls on the PT-100 tape recorder to minimum.
- C. Turn Bass minimum and Treble minimum pots on the Playback Logic Board counterclockwise to off.
- D. Slowly turn Bass minimum (top) pot clockwise toward maximum past the point where the solenoids begin to hum, to a point where all notes in the lower half of the keyboard play as softly as possible without missing notes.

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E. Slowly turn Treble minimum (second from top) pot clockwise toward maximum past the point where the solenoids begin to hum to a point where all notes in the upper half of the keyboard play as softly as possible without missing notes and balance the lower half of the keyboard in intensity.

3. It is our experience that if the back of a vertical piano is carpeted, the piano will play so softly as to be most acceptable in any home or restaurant. This is not a new idea. Restaurants have been doing this to mute the sound of pianos for years. Not only does the carpeting provide the softness for acceptable inobtrusive listening just a few feet away, but it enhances the appearance of the back of the piano.

4. Some dealers are installing a muffler rail in the piano to allow the customer the option of making it play even softer. The muffler rail is simply a section of metal with a strip of felt attached that is extended above the hammers, activated by pulling on a "choke cable" attached to the underside of the keybed near the left or right cheek. When the knob on the cable is pulled out, the felt drops between the hammer and the strings, thus muffling the sound. When the knob is pushed in, the felt is raised to a position that permits the hammers to strike the strings normally. Many imported pianos are shipped from the factory with this muffler rail already installed. These pianos have the cable attached to the middle pedal which they call a practice pedal. The pedal is depressed when a student is practicing and wishes to minimize the sound.

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