# Performance Memory

The CVP-75 features a built-in "sequencer" which can be used to independently record up to ten separate parts of a single musical composition. The Performance Memory has three RECORD and three PLAY BACK buttons, corresponding to track 1, track 2, and tracks 3 through 10. The music data that you record is stored on a 3.5" floppy disk loaded into the Clavinova's disk drive unit. Before you can record, however, you must "format" a new disk, as described on page 33.

Recording

1. If you haven't already done so, make sure that a properly formatted disk is loaded into the Clavinova disk drive (see page 33), and that the disk's write protect tab is set to the "write" position (tab closed).
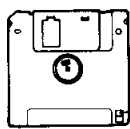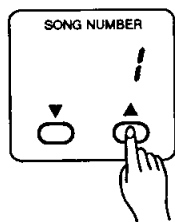
Write Protect tab
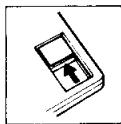
Write Protect OFF

2. Select a SONG NUMBER between 1 and 60 for the piece you are about to record (up to 60 different songs, each with a different song number, can be recorded on a single disk). Make sure the song number you select has not already been used for a song previously recorded on the disk you are using.

SONG NUMBER

3. Only one track can be recorded at a time. If you press [RECORD 1] you will record on track number 1. If you press [RECORD 2] you will record on track number 2. If you press [RECORD 3-10], you can choose to record on track 3, 4, 5, 6, 7, 8, 9, or 10 by selecting the desired track number using the [▲] and [▼] buttons below the SONG NUMBER display while holding the [RECORD 3-10] button (the selected track number will appear on the SONG NUMBER display). When a record track has been selected the corresponding LED will light and the metronome will sound at the currently selected tempo.

If you don't want to hear the metronome or rhythm sound, turn the RHYTHM volume control all the way down.

RECORD ○1 ○2 ○3-10

• The guide lamps above the CVP-75 keyboard provide a recorded-track display while the [RECORD 3—10] button is held. The guide lamps above the keys D#6 through A#6 correspond to tracks 3 through 10, and C7 is the rhythm track (not independently recordable). When a guide lamp is on, the corresponding track contains recorded data. Guide lamps that are off represent empty tracks.

4. Set up all necessary performance features as required: voice, voice mode (normal, dual, or split), rhythm style, tempo, ABC, solo styleplay, left pedal function, etc. Please note that split point changes must be made before a [RECORD] button is pressed.

• To record with ABC press the [RECORD 1] button and then engage an ABC mode. The track 3-10 record LED will light automatically in addition to the track 1 LED, and the ABC sound will be recorded on tracks 3 through 9 while what you play on the keyboard will be recorded on track 1. To record with ABC only, press the [RECORD 3-10] button and then engage an ABC mode (press the [SINGLE FINGER] or [FINGERED] button). The ABC sound will be recorded on track 3 through 9.

• If you also select solo styleplay, the track 2 LED will automatically light and the solo styleplay sound will be recorded on tracks 2 and 10 while the ABC sound is recorded on tracks 3 through 9.

• If the tracks on which you intend to record ABC or solo styleplay data already contain a different type of data, "y/n" will appear on the SONG NUMBER display when you press a track button to initiate recording with the ABC or solo styleplay features. The track LED will light when you press "y."

• If you record with both the ABC single finger mode and the split mode engaged, the left hand notes you play will be heard while recording but will not be recorded by the performance memory.

5. The synchronized start mode is automatically selected when a [RECORD] button is pressed, so recording will begin automatically as soon as any key on the keyboard is pressed or the [START/STOP] button is pressed (see page 23 for the various synchro start modes). The current measure number is shown on the TEMPO display as you record.

Changes in the following parameters will be recorded in addition to notes you play:

• Voice
• Style
• Fill In
• Style Variation
• Intro/Ending
• Tempo (initial tempo and subsequent tempo changes)
• Piano ABC Mode
• Solo Styleplay
• Dual/Split Mode
• Damper, Sostenuto and Soft Pedal
• Rhythm, Chord 1, Chord 2, Bass, and Keyboard Volume ([MIDI/TRANSPOSE] + BASS volume)
• Expression
• Pitch Bend
• Vibrato
• Reverb
• Split Position
• Pan Position

NOTE: The initial values of the above parameters can be changed for each track by engaging the record mode for the desired track, changing the parameters as required, and then disengaging the record mode without actually recording. In this case the RHYTHM, CHORD 1, CHORD 2, and BASS volume settings can only be decreased. Also note that the tempo, reverb, style, style variation, fill-in, and intro settings are common to all tracks and cannot be set independently for different tracks.

6. Press the RECORD button a second time, or the STOP button to stop recording. Recording will stop automatically if the memory capacity is reached (see "Memory Capacity and Display" below).

Recording a New Track

When you've finished recording the first track, you can simply play it back as described in "playback," below, or record a new track. To record a new track, press a [RECORD] button other than the one you used to record the previous track, and start recording (if you record on a track that has already been recorded, the previous material will be erased and the new material will be recorded in its place).

If you press the [PLAY BACK] button of the previously recorded track, you'll be able to record the new track while listening to the previously recorded track.

Punch-in Recording

After pressing a [RECORD] button it is possible to specify a measure number by using the [▶▶ FF] button or by entering three digits via the VOICE selectors while holding the [MIDI/TRANSPOSE] button. The specified measure number will appear on the TEMPO display and playback will begin from that measure. Recording will start automatically when a key is played, and all previous material from that point until the end of the recording will be replaced with the new material.

• Punch-in recording can not be used if the following types of data are recorded in the Performance Memory:

1. Solo Styleplay recorded on track 1.
2. DOC copy data.

## Multi-timbre Recording via MIDI

Data from an external MIDI device such as a sequencer or music computer can also be recorded in the CVP-75 Performance Memory by activating the "Multi-timbre" mode.

The Multi-timbre mode is activated by pressing the [RECORD 1] button while holding the [MIDI/TRANS-POSE] button. In this mode all tracks (1 through 10, and 15) can be recorded at the same time via the correspondingly numbered MIDI channels. That is, MIDI data received on channel 1 will be recorded on track 1, data received via channel 2 will be recorded on track 2, etc.

• Previous data on all tracks will be erased when new data is recorded in the Multi-timbre mode.

Playback

1. Make sure that the disk containing the song you wish to play is properly loaded in the disk drive and that the [SONG SELECT] button LED is lit. Use the [▲] and [▼] buttons below the SONG NUMBER display to select the song number (1—60) you wish to play. The LED indicators for tracks that contain recorded data will light.
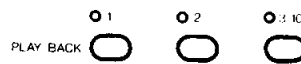
2. If you want to mute certain tracks (i.e. cancel playback of certain tracks) press the [PLAY BACK] button of the track or tracks you want to mute so that the corresponding play indicators go out. The [PLAY BACK 3-10] button determines the playback status of all material on tracks 3 through 10.

• The guide lamps above the CVP-75 keyboard provide a recorded-track display while the [PLAY BACK 3-10] button is held. The guide lamps above the keys D#6 through A#6 correspond to tracks 3 through 10, and C7 is the rhythm track. When a guide lamp is on, the corresponding track contains recorded data. Guide lamps that are off represent empty tracks. Playback of any of these tracks can be cancelled while the [PLAY BACK] button is held by pressing the corresponding key on the keyboard (the guide lamp will flash).

3. Playback of the selected tracks begins as soon as the [START/STOP] button is pressed. Playback can also be started by pressing the [INTRO/ENDING] button and then the [START/STOP] button — in this case playback will begin with an introduction even if the [INTRO/ENDING] button was not used to begin recording.

4. Play along if you like on the keyboard — using any of the Clavinova's voices.

5. Press the [START/STOP] or [INTRO/ENDING] button to stop playback. Playback will stop automatically when the end of the recording is reached. Playback will also stop if a RECORD button is pressed during playback.

• The A-B Repeat function can be used for performance memory playback if the [PHRASE REPEAT] button is turned on (see "A-B Repeat" on page 29. Repeat playback of all songs, beginning from a specified song number if desired, is also possible (see page 27 of the Disk Orchestra section)

• The CVP-75 guide lamps will light during playback, according to the data contained in PLAY BACK tracks 1 and 2. The guide lamps can be turned off by pressing the [RIGHT ON] button while holding the [MIDI/TRANSPOSE] button.

Performance Memory

The Chord Sequencer

The CVP-75 CHORD SEQUENCER provides a convenient way to enter chord sequences chord by chord.

1. Press the [CHORD SEQUENCER] button. The ABC FINGERED mode will be automatically selected — switch to the SINGLE FINGER mode if you prefer.

```
  CHORD
O SEQUENCE

  O
```

● The following parameters are recorded by the chord sequencer:
- Style no.
- Fill-in, Intro, Ending
- Rhythm, Chord 1, Chord 2, and Bass volume

2. Play and hold a chord on the left-hand section of the keyboard, and press the [♩] key (look for the "♩" symbol above the B6 key) or the [○] key (C7) to enter the chord for a quarter note or whole note, respectively.

Continue entering chords in this manner until your sequence is complete.

- If you only specify note lengths without entering any chords from the beginning of the sequence, the sequence will contain the rhythm pattern only. It is also possible to produce rhythm solos, bass solos, or blanks during a sequence by turning the volume of the parts to be muted all the way down.
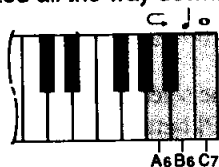
- You can move one step <u>backward</u> by pressing the [↩] key (A6).

- The number of the current measure is displayed on the TEMPO display, while the BEAT indicator represents the current beat within that measure.
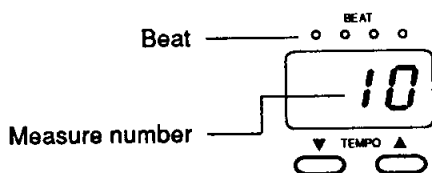
3. When all the required chords have been entered, press the [CHORD SEQUENCER] button to transfer the recorded sequence data to tracks 3 through 9 of the performance memory (i.e. the ABC tracks).

- The chord sequencer data now resides in performance memory tracks 3 though 9, and can be played back in the normal way. You can also record over individual tracks of the sequence and replace them with original material if you like by using the standard performance memory track selection and record procedure.

Erasing the Tracks

Individual tracks can be completely erased by starting and stopping recording without actually playing or changing any parameters. All tracks can be erased at the same time by selecting ABC and SOLO STYLEPLAY, then starting and stopping recording as described above.

Memory Capacity and Display

A single disk can record a total of approximately 700 kilobytes (a kilobyte is 1,024 bytes) of data — sufficient for many long and complicated performances. In terms of notes, approximately 50,000 notes can be recorded continuously if no other Clavinova functions are used. The remaining memory capacity is shown in kilobytes on the SONG NUMBER display immediately while a [RECORD] button is pressed.


- The Clavinova has enough internal RAM memory to allow recording for a while even if a disk is not loaded. If accidentally record without loading a disk, make sure you use the COPY function (described later) to copy the recorded data to disk if you want to keep the recorded data (the internal RAM memory is not backed up). This is necessary because the internal RAM memory is cleared automatically when a new performance disk is loaded.
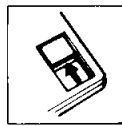
Disk Control

Formatting a New Disk

The Clavinova uses <u>only</u> 3.5" 2DD floppy disks. We recommend that you use Yamaha 2DD disks. Before you can use a new disk for recording, the disk must be "formatted" so that the Clavinova can recognize it and correctly write the music data onto it.

1. Insert a new blank disk. Make sure that the disk's write protect tab is set to the "write" position (tab closed), and insert the new disk into the disk drive unit with the metallic door facing the drive slot and the label side of the disk facing upward. The disk should click securely into place, and the disk drive lamp should light briefly.
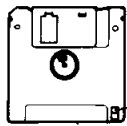
— Write Protect tab

Write Protect OFF

- "For" will appear on the SONG NUMBER display to indicate that a blank (unformatted) disk is loaded in the drive.

2. Press the DISK CONTROL [FORMAT] button. The [FORMAT] button LED will flash.

3. Use the SONG NUMBER [▲] and [▼] buttons to select either "Y" (YES) or "n" (NO) on the display. "Y" if you intend to execute the format operation or "n" if you wish to cancel the operation. This step is necessary because formatting completely erases any data that is already on the disk — make sure that the disk you're about to format does not contain any important data!
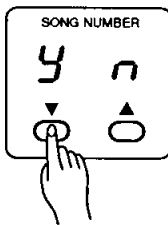
4. Press the [FORMAT] button again and formatting will begin. The number of each "track" on the disk will be shown on the display as the format process continues. When formatting is complete (the display will show "1"), you can go ahead and record using the performance memory, or use the COPY function (below) to copy songs or ABC patterns from the Style Disk to the newly formatted disk.

- When using the floppy disk format function, a write protect error (Er 2) will be generated with the following three disk types regardless of the disk's write protect status. This has been done to ensure that the music software cannot be accidentally erased.

  1. YAMAHA Disklavier software (PianoSoft).
  2. Disks formatted on the YAMAHA Disklavier.
  3. Clavinova software (Disk Orchestra Collection).

Copying Songs

Song data can be "backed up" by copying to a new song number or a different disk, as follows:

NOTE: Copying can only be carried out one song at a time — i.e. the entire contents of a disk containing several songs cannot be copied in one operation.

1. Make sure the [SONG SELECT] LED is on (except when copying from the Style Disk, in which case it must be off), and use the [▲] and [▼] buttons below the SONG NUMBER display to select the number of the song you wish to copy.

2. Press the [COPY] button. The [COPY] button LED will flash.

3. Use the [▲] and [▼] buttons below the SONG NUMBER display to select the song number you wish to copy to (i.e. the destination song number). If you select a song number that already contains data, that data will be overwritten by the new song data. If you select a song number greater than 60, the copy will be made to a different disk.
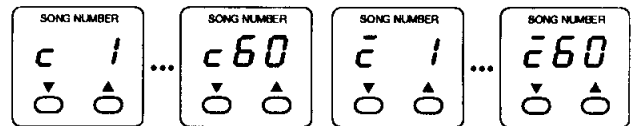

Copy to same disk   Copy to different disk (Song number greater than 60)
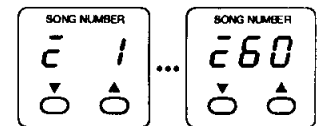
4. Press the [COPY] button again to begin the actual copy operation (the [COPY] LED will light continuously during the copy operation).

If you chose to copy to a different disk, you may have to exchange the source and destination disks a few times if the song being copied is long and complex. In this case, the Clavinova will prompt you to insert the source and destination disks with the following displays:
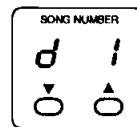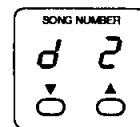
Insert source disk.   Insert destination disk.

- If you copy to a song number that already contains data, or to another disk, the Clavinova will ask you to confirm the copy operation. Use the SONG NUMBER [▲] and [▼] buttons to select either "Y" (YES) or "n" (NO) on the display. "Y" if you intend to execute the copy operation or "n" if you wish to cancel the operation. The copy operation will begin automatically if you select "Y."

- The [COPY] LED will go out when the copy operation is finished and the source song number will appear on the display.

- The copy operation can be aborted while the [COPY] button LED is flashing (<u>not</u> while it is lit) by pressing the [START/STOP] button.

33

Disk Control

Disk Orchestra Song Copy

This function allows you to copy the orchestra parts of one song from a DISK ORCHESTRA COLLECTION disk to a different disk.

The disk must be properly formatted, and all previous data contained on the disk will be erased.

1. Insert the DISK ORCHESTRA COLLECTION disk in the drive, then use the [▲] and [▼] buttons below the SONG NUMBER display to select the number of the song you wish to copy.

2. Press the [COPY] button. The [COPY] button LED will flash.

3. Use the [▲] and [▼] buttons below the SONG NUMBER display to select a song number greater than 60 so that the copy will be made to a different disk.
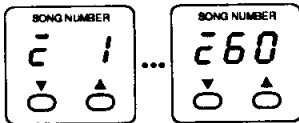
Copy to different disk (Song number greater than 60)

4. Press the [COPY] button again. "d 2" will appear on the display — eject the DISK ORCHESTRA COLLECTION disk and insert the newly formatted disk in the drive.

5. "Y n" will appear on the display. Use the SONG NUMBER [▲] and [▼] buttons to select either "Y" (YES) or "n" (NO) on the display. "Y" if you intend to execute the copy operation or "n" if you wish to cancel the operation. The copy operation will begin automatically if you select "Y."

You may have to exchange the source and destination disks a few times. The Clavinova will prompt you to insert the source and destination disks with the following displays:
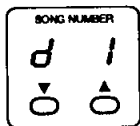
Insert DISK ORCHESTRA COLLECTION disk.   Insert newly formatted disk.
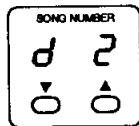
The [COPY] LED will go out when the copy operation is finished and the DOC song number will appear on the display.

NOTE: The Disk Orchestra Collection data will be copied to performance memory tracks 3 through 10, leaving tracks 1 and 2 blank. You can record new data on these tracks using the normal performance memory record procedure.

NOTE: Other performance data can be recorded to the same disk as long as it is copied to a different song number.

NOTE: Disk Orchestra Collection data copied as described above cannot be copied to a different disk — although it can be copied to a different song number on the same disk.

Deleting a Song

You can delete any song from a loaded disk as follows:

1. Press the [COPY] button while holding the [MIDI/TRANSPOSE] button. The [COPY] LED will flash.
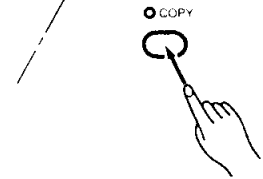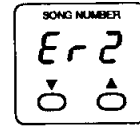

2. Use the SONG NUMBER [▲] and [▼] buttons to select the song number you wish to delete.

3. Press the [COPY] button a second time to actually delete the selected song.

Error Messages

If an error related to the disk occurs, one of the following messages may appear. If this happens, try the operation that caused the error message again. If the error persists, you may be attempting to use a write-protected disk, a disk that has not been properly formatted, or the disk itself may be at fault. If all else fails, try a different disk. If this doesn't clear up the problem, contact your Yamaha dealer.
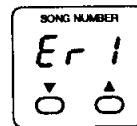
Disk read or write error (e.g. unformatted disk)   Disk write-protected.

NOTE: Data from a Style Disk cannot be copied to a disk that contains Performance Memory or Disk Orchestra Song Copy data. The reverse is also true: Performance Memory and Disk Orchestra Song data cannot be copied to a disk containing data copied from the Style Disk.

Registration Memory

The CVP-75 Registration Memory feature can be used to memorize 2 complete control-panel setups that you can recall whenever needed.

Memory Store

1. Make the desired control settings.

2. Press and hold the [MEMORY] button, then press one of the REGISTRATION buttons — [1] or [2].
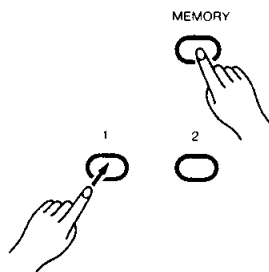
Recall

Simply press the desired REGISTRATION button at any time to recall the memorized settings.

• Only one set of control settings can be stored in each REGISTRATION button at a time.

• Registration data is retained in the Clavinova memory for about one week even if the POWER is not turned on. To keep the data in memory for longer periods, turn the POWER switch on briefly at least once a week.

• MIDI data is not stored in the registration memory.

Saving the Registration Memory Data to Disk

If a properly formatted disk is loaded in the CVP-75 disk drive (see page 33), the current registration memory data ([1] and [2]) can be saved to disk by pressing the [MEMORY] button while holding the [MIDI/TRANS-POSE] button. The registration memory data is saved to the currently selected SONG NUMBER (see page 30).

Loading Registration Memory Data From Disk

Registration memory data previously saved to disk as described above can be reloaded by selecting the appropriate SONG NUMBER and then pressing the REGISTRA-TION [1] button while holding the [MIDI/TRANSPOSE] button.

MIDI Functions

A Brief Introduction to MIDI

MIDI, the Musical Instrument Digital Interface, is a world-standard communication interface that allows MIDI-compatible musical instruments and equipment to share musical information and control one another. This makes it possible to create "systems" of MIDI instruments and equipment that offer far greater versatility and control than is available with isolated instruments.

For example, most MIDI keyboards (including the Clavinova, of course) transmit note and velocity (touch response) information via the MIDI OUT connector when-ever a note is played on the keyboard. If the MIDI OUT connector is connected to the MIDI IN connector of a sec-ond keyboard or a tone generator, the second keyboard or tone generator will respond precisely to notes played on the original transmitting keyboard. The result is that you can effectively play two instruments at once, providing thick multi-instrument sounds.
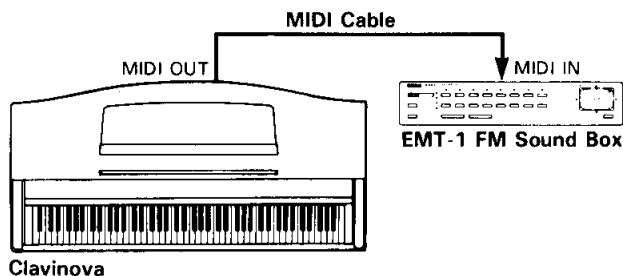
This same type of musical information transfer is used for MIDI sequence recording. A sequence recorder such as the Yamaha DRC-20 Disk Recorder or EMQ-1 Memory Box can be used to "record" MIDI data received from a Clavinova, for example. When the recorded data is played back, the Clavinova automatically "plays" the recorded performance in precise detail.
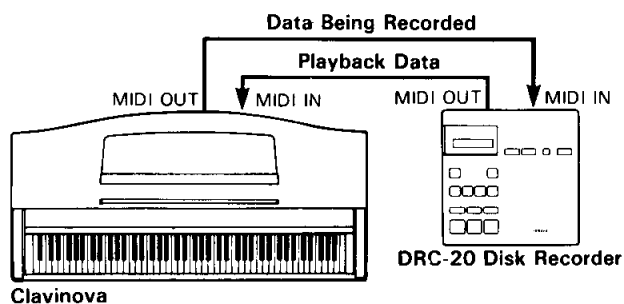
The examples given above really only scratch the surface. MIDI can do much, much more. The CVP-75 offers a number of MIDI functions that allow them to be used in fairly sophisticated MIDI systems.

Note: Always use a high-quality MIDI cable to connect MIDI OUT to MIDI IN terminals. Never use MIDI cables longer than about 15 meters, since cables longer than this can pick up noise which can cause data errors.

Accessing the CVP-75 MIDI Functions

All of the CVP-75 MIDI functions are accessed by pressing the appropriate VOICE selector while holding the [MIDI/TRANSPOSE] button. The MIDI functions accessed by the various VOICE selectors are shown in the following chart:

Function	Selector
1. Send Channel Select	PIANO
2. Receive Channel Select	CLAVINOVA TONE
3. Local ON/OFF	E. PIANO
4. Program Change ON/OFF	HARPSI
5. Control Change ON/OFF	VIBES
6. Multi-Timbre Mode ON/OFF	GUITAR
7. Split Send Mode	STRINGS
8. MIDI Clock Select	ORGAN
9. Panel Data Transmit	CHOIR

Send and Receive Channel Select

In any MIDI control setup, the MIDI channels of the transmitting and receiving equipment must be matched for proper data transfer (there are 16 MIDI channels). An "OMNI ON" receive mode is also available, which allows reception on all 16 MIDI channels. In the OMNI ON mode it is not necessary to match the receive channel of the receiving device to the transmit channel of the transmitting device.

1. Hold [MIDI/TRANSPOSE] and press [PIANO] to set the send channel or [CLAVINOVA TONE] to set the receive channel.

2. Use TEMPO [▲] and [▼] buttons to select the desired channel (the selected channel number is shown on the TEMPO display — the OMNI ON receive mode is indicated by "ALL" on the display).

$$\boxed{5 \quad I} \cdots \boxed{5 \ I6} \quad \boxed{ALL}$$

$$\boxed{r \quad I} \cdots \boxed{r \ I6}$$
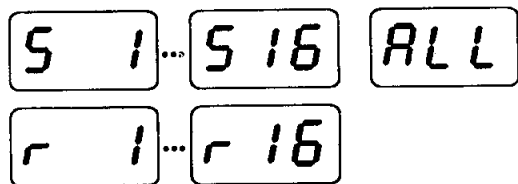
3. Release [MIDI/TRANSPOSE].

> **Note:** When the power is initially turned ON, MIDI receive is set to the OMNI ON mode and the transmit channel is set to 1.

Local Control ON/OFF

"Local Control" refers to the fact that, normally, the Clavinova keyboard controls its internal tone generator, allowing the internal voices to be played directly from the keyboard. This situation is "Local Control ON" since the internal tone generator is controlled locally by its own keyboard.

Local control can be turned off, however, so that the Clavinova keyboard does not play the internal voices, but the appropriate MIDI information is still transmitted via the MIDI OUT connector when notes are played on the keyboard. At the same time, the internal tone generator responds to MIDI information received via the MIDI IN connector. This means that while an external MIDI recorder such as the Yamaha DRC-20 Disk Recorder, for example, plays the Clavinova's internal voices, an external tone generator such as the EMT-1 can be played from the Clavinova keyboard. Local Control is automatically turned ON when the power is initially turned on.

EMT-1 FM Sound Box
(played from Clavinova keyboard)

DRC-20 Disk Recorder

Clavinova
(Local Control OFF, played from DRC-20 Disk Recorder)
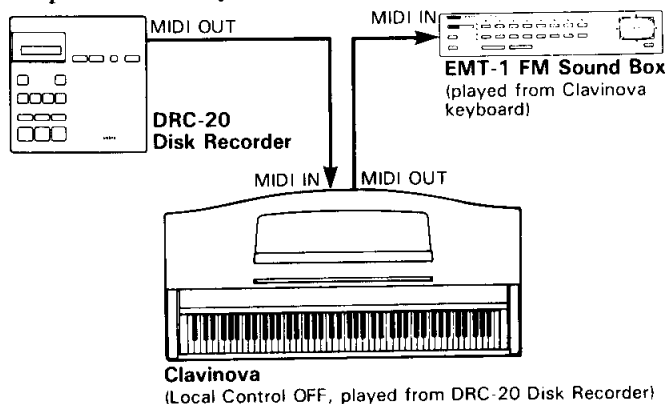
1. Hold [MIDI/TRANSPOSE] and press [E. PIANO].

[E. PIANO] LED ON = local control OFF.
[E. PIANO] LED OFF = local control ON.

2. Release [MIDI/TRANSPOSE].

Program Change ON/OFF

Normally the Clavinova will respond to MIDI program change numbers received from an external keyboard or other MIDI device, causing the correspondingly numbered Clavinova voice to be selected. The Clavinova will normally also send a MIDI program change number whenever one of its voices is selected, causing the correspondingly numbered voice or program to be selected on the external MIDI device if the device is set up to receive and respond to MIDI program change numbers.

This function makes it possible to cancel program change number reception and transmission so that voices can be selected on the Clavinova without affecting the external MIDI device, and vice versa. Program Change is automatically turned on when the power is initially turned on.

1. Hold [MIDI/TRANSPOSE] and press [HARPSI].

[HARPSI] LED ON = program change reception/transmission OFF.

[HARPSI] LED OFF= program change reception/transmission ON.

2. Release [MIDI/TRANSPOSE].

Control Change ON/OFF

Normally the Clavinova will respond to MIDI control change data received from an external MIDI device or keyboard, causing the selected Clavinova voice to be affected by pedal and other "control" settings received from the controlling device. The Clavinova also transmits MIDI control change information when either of its pedals are operated.

This function makes it possible to cancel control change data reception and transmission if you do not want the Clavinova voices to be affected by control change data received from an external device or vice versa. Control Change is automatically turned on when the power is initially turned on.

1. Hold [MIDI/TRANSPOSE] and press [VIBES].

[VIBES] LED ON = control change reception/transmission OFF.

[VIBES] LED OFF = control change reception/transmission ON.

2. Release [MIDI/TRANSPOSE]

The Multi-Timbre Mode

The Multi-Timbre mode is a special mode in which the Clavinova voices can be independently controlled on different MIDI channel numbers (1 through 10 and 15) by an external MIDI device such as the Yamaha DRC-20 Disk Recorder. The Multi-Timbre mode is off when the power is initially turned on.

The Multi-Timbre mode can be activated as follows:

1. Hold [MIDI/TRANSPOSE] and press [GUITAR].

[GUITAR] LED ON = Multi-Timbre mode ON.
[GUITAR] LED OFF = Multi-Timbre mode OFF.

2. Release [MIDI/TRANSPOSE].

The CVP-75's MIDI channel 15 controls rhythms only. The note assignments for the various rhythm instruments are given below:

RHYTHM INSTRUMENT NOTE ASSIGNMENTS (Bank 1 and Bank 2)

Note (MIDI Note No.)		Instrument
A1	(45)	CYMBAL DAMP
F#2	(54)	BRUSH ROLL (SD ANALOG*)
G#2	(56)	HI-HAT CLOSED HEAVY
A#2	(58)	CRASH CYMBAL LIGHT*
B2	(59)	BASS DRUM LIGHT*
C3	(60)	SNARE DRUM + RIM HEAVY*
C#3	(61)	RIDE CYMBAL CUP*
D3	(62)	SNARE DRUM + RIM LIGHT*
F3	(65)	BASS DRUM*
F#3	(66)	RIM SHOT
G3	(67)	SNARE DRUM HEAVY*
G#3	(68)	BRUSH SHOT (SD REVERSED*)
A3	(69)	SNARE DRUM LIGHT*
A#3	(70)	HI-HAT PEDAL
B3	(71)	SNARE DRUM ECHO*
C4	(72)	TOM 4*
C#4	(73)	HI-HAT CLOSED
D4	(74)	TOM 3*
D#4	(75)	HI-HAT OPEN
E4	(76)	TOM 2*
F4	(77)	TOM 1*
F#4	(78)	RIDE CYMBAL*
G#4	(80)	CRASH CYMBAL*
C5	(84)	CONGA LOW
C#5	(85)	CABASA
D5	(86)	CONGA HIGH
D#5	(87)	METRONOME
E5	(88)	BONGO
F5	(89)	TIMBALE LOW
F#5	(90)	CLAVES
G5	(91)	TIMBALE HIGH
G#5	(92)	CASTANETS
A5	(93)	CUICA LOW
A#5	(94)	COWBELL
B5	(95)	CUICA HIGH
C6	(96)	HAND CLAPS
C#6	(97)	AGOGO LOW
D#6	(99)	AGOGO HIGH
E6	(100)	BONGO LOW
F#6	(102)	TAMBOURINE
G#6	(104)	TRIANGLE CLOSED
A#6	(106)	TRIANGLE OPEN

• Voices marked with an asterisk (*) are processed when Bank 2 is selected.

Additional Bank 2 Instruments

Note (MIDI Note No.)		Instrument
A#1	(46)	BELL TREE
C#2	(49)	ORCHESTRAL CYMBAL
F2	(53)	BASS DRUM ANALOG
G2	(55)	NOISE PERCUSSION
G4	(79)	ELECTRONIC TOM 3
A4	(81)	ELECTRONIC TOM 2
A#4	(82)	REVERSED CRASH CYMBAL
B4	(83)	ELECTRONIC TOM 1
D6	(98)	FINGER SNAP

The Split Send Mode

In the split send mode notes played on the left-hand section of the keyboard (to the left of and including the split point key — see "Changing the Split Point" on page 16) are transmitted on MIDI channel 2, while the upper keyboard section transmits on the MIDI channel set using the Send Channel Select function described earlier. In this mode the left- and right-hand sections of the keyboard can be used to play separate external keyboards or tone generators set to receive on the appropriate channels. The Split Send Mode is automatically turned off when the power is initially turned on.

EMT-1 FM Sound Box
(set to receive on MIDI channel 2)

Clavinova

SPLIT POINT

Left-hand section plays EMT-1 FM Sound Box.

Right-hand section plays a Clavinova piano voice.
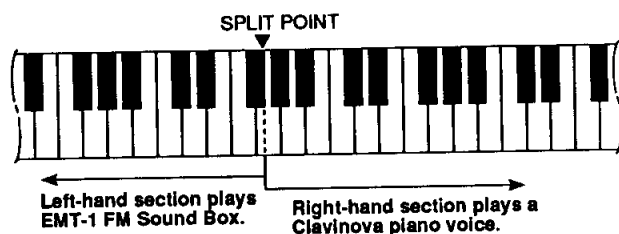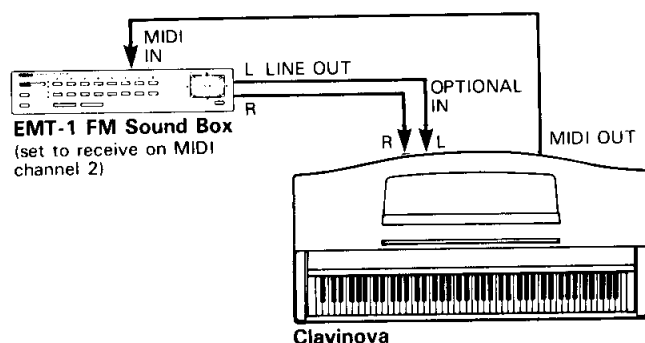
1. Hold [MIDI/TRANSPOSE] and press [STRINGS].

[STRINGS] LED ON = Split Send Mode ON.
[STRINGS] LED OFF = Split Send Mode OFF.

2. Release [MIDI/TRANSPOSE].

MIDI Clock Select

This function determines whether the CVP-75's rhythm and PIANO ABC timing is controlled by the CVP-75's own internal clock or an external MIDI clock signal received from external equipment connected to the MIDI IN connector. The Clock Mode is automatically set to INTERNAL when the power is initially turned on.

1. Hold [MIDI/TRANSPOSE] and press the [ORGAN].

[ORGAN] LED ON = EXTERNAL.
[ORGAN] LED OFF = INTERNAL.

2. Release [MIDI/TRANSPOSE].

NOTE: If the Clock Mode is set to EXTERNAL and a MIDI clock signal is not being received from an external source, the CVP-75 rhythm, PIANO ABC and other clock-dependent features will not operate.

Panel Data Send

This function causes all the current Clavinova panel settings (selected voice, etc) to be transmitted via the MIDI OUT terminal. This is particularly useful if you will be recording performances to a MIDI sequence recorder which will be used to control the Clavinova on playback. By transmitting the Clavinova panel settings and recording them on the MIDI sequence recorder prior to the actual performance data, the Clavinova will be automatically restored to the same settings when the performance is played back.

1. Hold [MIDI/TRANSPOSE] and press [CHOIR].

2. Release [MIDI/TRANSPOSE].

MIDI Specifications for Other Equipment

When using the Clavinova with other MIDI equipment, always refer to the MIDI specifications (implementation chart and MIDI data format) of the equipment used to ensure compatibility.

Troubleshooting

If you encounter what appears to be a malfunction, please check the following points before assuming that your Clavinova is faulty.

1. No Sound When the Power Is Turned ON
Is the AC plug properly connected to an AC wall outlet? Check the AC connection carefully. Is the MASTER VOLUME control turned up to a reasonable listening level?

2. The Clavinova Reproduces Radio or TV Sound
This can occur if there is a high-power transmitter in your vicinity. Contact your Yamaha dealer.

3. Intermittent Static Noise
This is usually due to turning ON or OFF a household appliance or other electronic equipment which is fed by the same AC mains line as your Clavinova.

4. Interference Appears On Radio or TV Sets Located Near the Clavinova
The Clavinova contains digital circuitry which can generate radio-frequency noise. The solution is to move the Clavinova further away from the affected equipment, or vice versa.

5. Distorted Sound When the Clavinova Is Connected to An External Amplifier/Speaker System
If the Clavinova is connected to a stereo system or instrument amplifier and the sound is distorted, reduce the setting of the Clavinova volume control to a level at which the distortion ceases.

Options & Expander Modules

OPTIONS

BC-10 Bench
A stable, comfortable bench styled to match your Yamaha Clavinova.

HPE-6 Stereo Headphones
High-performance lightweight dynamic headphones with extra-soft ear pads.

EXPANDER MODULES

DRC-20   Disk Recorder
DOM-30   Disk Orchestra Module

These state-of-the-art Expander Modules can dramatically expand the musical scope of your Clavinova.

NOTE: Some items may not be available in certain areas.

MIDI Data Format

If you're already very familiar with MIDI, or are using a computer to control your music hardware with computer-generated MIDI messages, the data provided in this section can help you to control the Clavinova.

1. NOTE ON/OFF
Data format: [9xH] -> [kk] -> [vv]

9xH = Note ON event (x = channel number)
kk = Note number (21 ~ 108 = A-1 ~ C7)
vv = Velocity (Key ON = 1 ~ 127. Key OFF = 0)

* Note OFF event format [8xH] -> [kk] -> [vv] also recognized (reception only, vv = 0 ~ 127).

2. CONTROL CHANGE & MODE MESSAGES
Data format: [BxH] -> [cc] -> [dd]

BxH = Control event (x = channel number)
cc = Control number (or mode message number)
dd = Control value

cc	PARAMETER	dd
01H (01)	Modulation (Vibrato)	00H ~ 0FH = Off
		10H ~ 1FH = 1
		20H ~ 2FH = 2
		30H ~ 3FH = 3
		40H ~ 4FH = 4
		50H ~ 5FH = 5
		60H ~ 6FH = 6
		70H ~ 7FH = 7
07H (07)	Volume	00000000 = -∞
		01101111 = -3 dB
		01111111 = ±0 dB
0AH (10)	Pan pot	00H ~ 17H = left 6
		18H ~ 1FH = left 5
		20H ~ 27H = left 4
		28H ~ 2FH = left 3
		30H ~ 37H = left 2
		38H ~ 3FH = left 1
		40H ~ 47H = center
		48H ~ 4FH = keyboard scale pan
		50H ~ 57H = right 1
		58H ~ 5FH = right 2
		60H ~ 67H = right 3
		68H ~ 6FH = right 4
		70H ~ 77H = right 5
		78H ~ 7FH = right 6
0BH (11)	Expression	00000000 = -∞
		01101111 = -3 dB
		01111111 = ±0 dB
40H (64)	Damper pedal	00H ~ 7FH, 8 levels max.
42H (66)	Sostenuto pedal	0 ~ 3FH = OFF; 40H ~ 7FH = ON
43H (67)	Soft pedal	00H ~ 7FH, 8 levels max.
50H (80)	Bright pedal	00H ~ 7FH
5BH (91)	Reverb Depth	00H ~ 7FH
5DH (93)	Chorus	0 ~ 3FH = OFF; 40H ~ 7FH = ON
79H (121)	Reset all controllers	0
7AH (122)	Local ON/OFF	0 = OFF; 7FH = ON
7BH (123)	All notes OFF	0
7CH (124)	OMNI OFF/All notes OFF	0
7DH (125)	OMNI ON/All notes OFF	0

* 7AH, 7BH, 7CH and 7DH are receive only.

MIDI Data Format

3. PROGRAM CHANGE

Data format: [CxH] -> [dd]

CxH = program event (x = channel number)
dd = Program number

Panel Voices

dd	VOICE
00H	PIANO
01H	CLAVINOVA TONE
02H	E.PIANO
03H	HARPSICHORD
04H	VIBES
05H	GUITAR
06H	STRINGS
07H	ORGAN
08H	CHOIR
09H	UPRIGHT BASS
0AH	ELEC BASS
0BH	DRUMS

Voices 13 — 60

dd	VOICE
0CH	BRASS
0DH	POP BRASS
0EH	TRUMPET
0FH	MUTE TRUMPET
10H	HORN
11H	SAX
12H	SAX SOFT
13H	CLARINET
14H	OBOE
15H	FLUTE
16H	ACCORDION
17H	HARMONICA
18H	STRINGS SOFT
19H	VIOLIN
1AH	VIOLIN HARD
1BH	FULL ORGAN
1CH	JAZZ ORGAN 1
1DH	SYNTH BRASS
1EH	SYNTH WOOD
1FH	SYNTH STRINGS
20H	SYNTH CHOIR
21H	PIANO BRIGHT
22H	PIANO SOFT
23H	E. PIANO DX
24H	SYNTH CRYSTAL
25H	CELESTA
26H	MARIMBA
27H	FOLK GUITAR
28H	JAZZ GUITAR 1
29H	JAZZ GUITAR 2
2AH	ROCK GUITAR 1
2BH	ROCK GUITAR 2
2CH	MUTE GUITAR
2DH	BANJO
2EH	PIZZICATO
2FH	HARP
30H	UPRIGHT BASS SOFT
31H	ELEC BASS SOFT
32H	ELEC BASS HEAVY
33H	SYNTH BASS
34H	TIMPANI/ORCH. HIT
35H	BASSOON
36H	CHAMBER STRINGS
37H	JAZZ ORGAN 2
38H	ROCK GUITAR 3
39H	COSMIC 1
3AH	COSMIC 2
3BH	COSMIC 3

4. PITCH BENDER

Data format: [ExH] -> [ccH] -> [ddH]

ExH = Bender event
cc = Least significant byte
dd = Most significant byte

	MSB	LSB
MAX:	01111111	01111110
	01111110	01111100
	01111101	01111010
	:	
	01000001	00000010
Center:	01000000	00000000
	00111111	00000000
	:	
	00000001	00000000
MIN:	00000000	00000000

5. SYSTEM REALTIME MESSAGES

Active Sensing (FEH)

Transmitted every 200 milliseconds. If no data received for more than 400 milliseconds after FEH, a NOTE OFF occurs.

Timing Clock (F8H)
Start (FAH)
Stop (FCH)

6. SYSTEM EXCLUSIVE MESSAGES

(1) Clavinova Messages
Data Format: [F0H] -> [43H] -> [73H] -> [2CH] -> [nn] -> [F7H]

43H = YAMAHA ID
73H = CLAVINOVA ID
2CH = CVP-75 ID
nn = Substatus

nn	SEND/RECEIVE DATA
02H	Internal clock (receive only)
03H	External MIDI clock (receive only)
13H	Multi-Timbre mode OFF
15H	Multi-Timbre mode ON
7nH	Receive channel change (receive only)

(2) Special Messages-1
Data Format: [F0H] -> [43H] -> [73H] -> [2CH] -> [11H] -> [0xH] -> [cc] -> [dd] -> [F7H]

43H = YAMAHA ID
73H = CLAVINOVA ID
2CH = CVP-75 ID
11H = Clavinova special control code
0xH = MIDI channel number
cc = Control number
dd = Control value

cc	SEND/RECEIVE DATA	dd
08H	DUAL/SPLIT Balance	00H = lower max.
		7FH = upper max.
10H	ABC Mode	00H = OFF
		01H = ABC Single Finger
		02H = ABC Fingered
		03H = Full-Keyboard ABC
11H	Rhythm Variation	00H = OFF
		01H = Variation ON
		40H = Custom Rhythm
12H	Fill In Switch Event	00H = Fill to normal OFF event
		01H = Fill to normal ON event
		02H = Fill to variation ON event
		03H = Fill to variation OFF event
13H	Intro/Ending Switch Event	00H = INTRO/ENDING OFF
		01H = Intro mode on
		02H = Ending mode on
14H	Split	[dd] = Split key number
15H	Rhythm Number	[dd] = Rhythm number
19H	Volume	[dd] = Volume value (0xH: x = 2 for BASS, x = 4 for CHORD1, x=5 for CHORD 2)
1AH	Rhythm Volume	[dd] = Volume value
21H	Solo Styleplay Number	00H ~ 4DH = Style number
22H	Solo Styleplay	00H ~ 3FH = OFF
		40H ~ 7FH = ON
23H	Drums Bank Number	00H = Acoustic kit
		01H = Processed kit
		02H = Disk Orchestra
		03H = ABC
59H	Reverb	00H = OFF
		01H = ROOM
		02H = HALL 1
		03H = HALL 2
		04H = COSMIC
5AH	DUAL SPLIT Mode	00H = OFF
		01H = DUAL
		02H = SPLIT (upper damper)
		03H = SPLIT (lower damper)
		04H = SPLIT (upper/lower damper)
5CH	DUAL SPLIT Voice	[dd] = DUAL/SPLIT voice number
5DH	Pedal Function	[dd] = Function number

(2) Special Messages-2 (Tempo)
Data Format: [F0H] -> [43H] -> [73H] -> [2CH] -> [11H] ->[1FH] -> [cc] -> [dd] -> [F7H]

43H = YAMAHA ID
73H = CLAVINOVA ID
2CH = CVP-75 ID
11H = Clavinova special control code
1FH = MIDI channel number
cc = Tempo low byte
dd = Tempo high byte   Tempo = dd × 128 + cc

(3) General Messages

a) Panel Dump Request (receive only)
Data Format: [F0H] -> [43H] -> [2nH] -> [7CH] -> [F7H]

Panel data is transmitted when the above data is received.

2nH = Panel dump request ("n" is channel number).

b) Panel Dump
Data Format: [F0H] -> [43H] -> [0nH] -> [7CH] . . . . . . [F7H]

0nH = Panel dump ("n" is channel number).
7CH = Format code.

• All MIDI data available for general use are given above.

Index

• Screws x 12
• Schrauben x 12
• Vis x 12
• Tornillos x 12

Blanket, etc.
Decke o.ä.
Couverture, etc.
Manta, etc.

Assembly

Note: We do not recommend attempting to assemble the CVP-75 alone. The job can be easily accomplished, however, with only two people.

1 Open the box and remove all the parts.

On opening the box you should find the parts shown in the illustration above. Check to make sure that all the required parts are provided.

2 Carefully lean the main unit against a wall.

To make it easier to install the legs, place a soft blanket or similar material on the floor near a wall, close the Clavinova keyboard cover, place the front panel of the Clavinova (the side with the keyboard) on the blanket and gently lean the unit against the wall — MAKING SURE THAT IT CAN NOT FALL — as shown in the illustration.

3 Attach the front legs.

Securely attach the two front legs using three screws each (use a Philips "+" screwdriver), as shown in the illustration. Make sure the screws are securely tightened.

4 Attach the rear legs and pedal box assembly.

Before attaching the rear legs and pedal box assembly, insert the plugs extending from the top of each leg into the sockets in the corresponding sockets in the main unit — making sure that the lugs on the connectors are aligned with the corresponding recesses in the connector plates on the the main unit. Then securely attach the rear legs and pedal box assembly using three screws per leg.

5 Adjust the legs and pedal adjusters.

Stand the Clavinova upright and use the screw feet at the bottom of each leg to adjust the length of the legs for optimum stability. For pedal stability, two adjusters are also provided on the bottom of the pedal assembly. Rotate the adjusters until they comes in firm contact with the floor surface. The adjusters ensure stable pedal operation and facilitates pedal effect control.

* If the adjusters are not in firm contact with the floor surface, distorted sound may result.
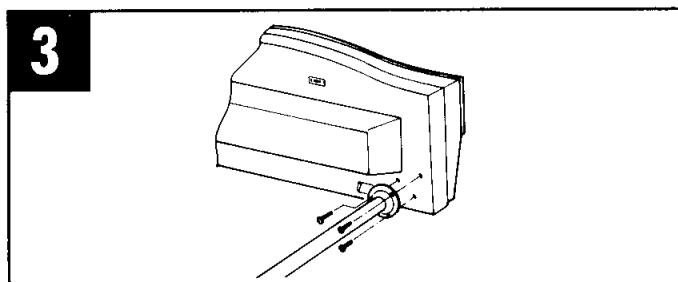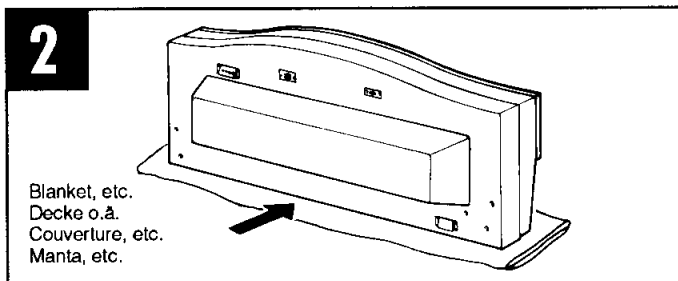
Montage

HINWEIS: Wir raten davon ab, die Montage und Aufstellung des CVP-75 alleine auszuführen. Zwei Personen können das CVP-75 jedoch problemlos zusammenbauen und aufstellen.

1 Versandkarton öffnen und alle Teile auspacken.

Vergewissern Sie sich nach Öffnen des Kartons, daß die oben abgebildeten Teile vollzählig vorhanden sind.

2 Das Instrument vorsichtig gegen eine Wand lehnen.

Um die Montage der Standbeine zu erleichtern, eine weiche Decke o.ä. neben einer Wand auf dem Boden ausbreiten, die Klaviaturabdeckung schließen und das Clavinova, wie abgebildet, auf der Vorderseite (Seite mit der Klaviatur) stehend vorsichtig gegen die Wand lehnen. ACHTEN SIE UNBEDINGT DARAUF, DASS DAS INSTRUMENT NICHT UMFALLEN KANN.

3 Die vorderen Standbeine anschrauben.

Die beiden vorderen Standbeine gemäß der Abbildung mit drei Schrauben befestigen (einen Kreuzschlitzschraubenzieher verwenden). Die Schrauben dabei gut festziehen.

4 Die hinteren Beine mit dem Pedalkasten montieren.

Vor dem Festschrauben der hinteren Standbeine mit Pedalkasten die aus der Oberseite der Beine ragenden Stecker in die zugehörigen Buchsen des Instruments einpassen, so daß die Kontaktstifte mit den entsprechenden Vertiefungen im Anschlußblech zur Deckung kommen. Die hinteren Standbeine mit dem Pedalkasten danach mit je drei Schrauben festmachen.

5 Die Höhe der Beine und der Pedalstützschrauben justieren.

Das Clavinova aufrecht stellen und die Schraubfüsse an den Standbeinen so justieren, daß das Clavinova stabil steht. Am Pedalkasten befinden sich unten ebenso zwei Stützschrauben, um diesen zu stützen. Die Stützschrauben drehen, bis sie fest auf dem Boden aufsetzen. Diese Schrauben gewährleisten eine stabile Pedalansprechung und vereinfachen die Effektsteuerung über Pedale.

* Falls die Stützschrauben nicht am Boden aufsitzen, kann es zu Verzerrungen kommen.
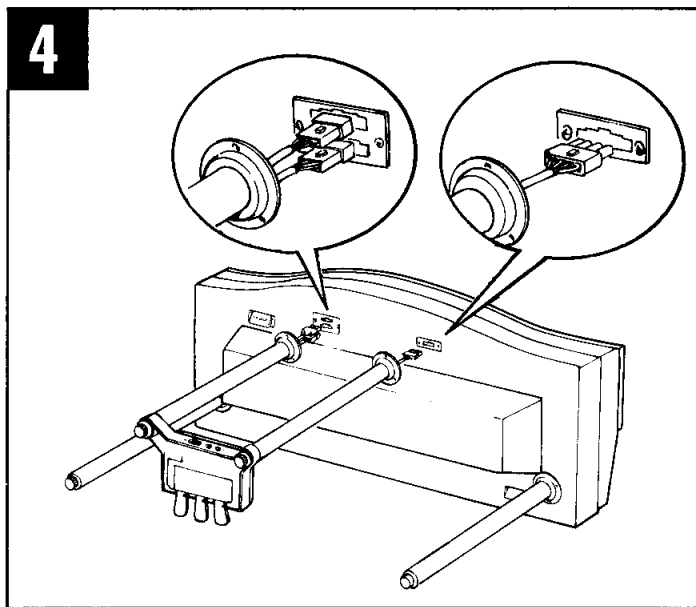
Montage

REMARQUE: Nous ne vous conseillons pas d'essayer d'assembler le CVP-75 seul. Toutefois, ce travail peut être facilement exécuté par deux personnes.

1 Ouvrir le carton et retirer toutes les pièces

Toutes les pièces indiquées sur l'illustration doivent se trouver dans le carton à son ouverture. Vérifier qu'il n'en manque aucune.

2 Appuyer soigneusement l'instrument contre un mur

Pour monter plus facilement les pieds, placer une couverture douce ou un matériau similaire sur le sol près d'un mur, fermer le couvercle du clavier du Clavinova, placer le panneau avant du Clavinova (le bord avec le clavier) sur la couverture et appuyer soigneusement l'instrument contre le mur comme indiqué sur l'illustration - EN FAISANT TRES ATTENTION A CE QU'IL NE PUISSE PAS TOMBER.

3 Fixer les pieds avant

Fixer fermement les deux pieds avant avec trois vis chacun (utiliser un tournevis cruciforme), comme illustré.
Les vis doivent être serrées à fond.

4 Monter les pieds arrière et le pédalier

Avant de fixer les pieds arrière et le pédalier, indroduire les prises sortant du haut de chaque pied dans les prises femelles correspondantes de l'unité principale - en vérifiant bien que les cosses des connecteurs sont bien enfichées dans les rainures des plaques de connecteurs de l'unité principale. Fixer ensuite solidement les pieds arrière et le pédalier au moyen de trois vis par pied.

5 Régler la hauteur des pieds et du pédalier

Mettre le Clavinova debout et utiliser les vis de réglage situées au bas de chaque pied pour régler la hauteur afin que le Clavinova soit le plus stable possible. Deux dispositifs de réglage sont prévus à la partie inférieure du pédalier pour assurer sa stabilité. Les tourner jusqu'à ce qu'ils soient en contact ferme avec la surface du sol. Ces dispositifs assurent la stabilité du pédalier lors de son utilisation et facilitent la commande au pied des effets.

* Si ces dispositifs ne sont pas en contact ferme avec le sol, il peut se produire une distorsion du son.
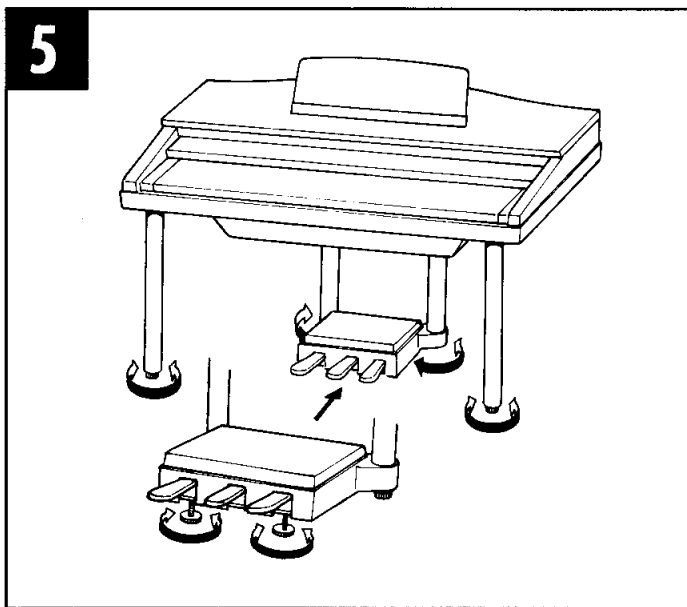
Montaje

NOTA: No le aconsejamos intentar montar la CVP-75 solo. Este trabajo puede realizarse fácilmente entre dos personas.

1 Abra la caja y extraiga todas las partes.

Al abrir la caja deberá encontrar las partes mostradas en la ilustración de encima. Compruebe para asegurarse de que se proporcionan todas las partes necesarias.

2 Apoye con cuidado la unidad principal contra una pared.

Para facilitar la instalación de las patas, coloque una sábana suave o material similar en el piso cerca de una pared, cierre la cubierta del teclado de la Clavinova, coloque el panel frontal de la Clavinova (el lado con el teclado) sobre la sábana y apoya còn cuidado la unidad contra la pared - ASEGURANDOSE DE QUE NO PUEDA CAERSE - como se muestra en la ilustración.

3 Una las patas delanteras.

Acople bien las dos patas frontales usando tres tornillos en cada una de ellas (utilice un destornillador Philips "+") como se muestra en la ilustración. Asegúrese de que aprieta bien los tornillos.

4 Monte las patas traseras y el conjunto de la caja de pedales.

Antes de montar las patas traseras y el conjunto de la caja de pedales, inserte las clavijas que se extienen desde la parte superior de cada pata en los receptáculos correspondientes de la unidad principal, asegurándose de que las lengüetas de los conectores quedan alineadas con los huecos correspondientes de lsa placas de conector en la unidad principal. Entonces, fije bien las patas traseras y conjunto de la caja de pedales empleando tres tornillos por cada pata.

5 Ajuste las patas y los ajustadores de los pedales.

Coloque la Clavinova de pie y emplee el tornillo de las patas de la parte inferior de cada pata, para ajustar la longitud de las patas que ofrezca la mejor estabilidad. Para la estabilidad de los pedales, hay dos ajustadores en la parte inferior del conjunto de pedales. Gire los ajustadores hasta que se pongan bien en contacto con la superficie del piso. Los ajustadores aseguran una operación estable de los pedales y facilitan el control de efectos con los pedales.

* Si los ajustadores no están bien en contacto con la superficie del piso, puede producirse distorsión del sonido.
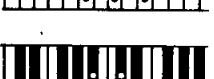
Specifications

	CVP-75
KEYBOARD	88 KEYS (A-1 — C7)
TONE GENERATOR	AWM (Advanced Wave Memory)
VOICE SELECTORS & CONTROLS	PIANO, CLAVINOVA TONE, ELECTRONIC PIANO, HARPSICHORD, VIBES, GUITAR, STRINGS, ORGAN, CHOIR, UPRIGHT BASS, ELECTRIC BASS, DRUMS, VOICE 13 - 60 (BRASS, POP BRASS, TRUMPET, MUTE TRUMPET, HORN, SAXOPHONE, SAXOPHONE SOFT, CLARINET, OBOE, FLUTE, ACCORDION, HARMONICA, STRINGS SOFT, VIOLIN, VIOLIN HARD, FULL ORGAN, JAZZ ORGAN 1, SYNTH BRASS, SYNTH WOOD, SYNTH STRINGS, SYNTH CHOIR, PIANO BRIGHT, PIANO SOFT, ELECTRONIC PIANO DX, SYNTH CRYSTAL, CELESTA, MARIMBA, FOLK GUITAR, JAZZ GUITAR 1, JAZZ GUITAR 2, ROCK GUITAR 1, ROCK GUITAR 2, MUTE GUITAR, BANJO, PIZZICATO, HARP, UPRIGHT BASS SOFT, ELECTRIC BASS SOFT, ELECTRIC BASS HEAVY, SYNTH BASS, TIMPANI/ORCHESTRA HIT, BASSOON, CHAMBER STRINGS, JAZZ ORGAN 2, ROCK GUITAR 3, COSMIC 1, COSMIC 2, COSMIC 3), SPLIT
TOUCH SENSITIVITY	HARD, MEDIUM, SOFT
PIANO ABC & CONTROLS	SINGLE FINGER, FINGERED, SOLO STYLEPLAY, RHYTHM VOLUME, CHORD 1 VOLUME, CHORD 2 VOLUME, BASS VOLUME
STYLE DISK	AMERICAN POP, 60'S, SOUL ROCK, 16 BEAT, ROCK BALLAD, COUNTRY ROCK, PIANO BALLAD, SOLO PIANO, RYTHM & BLUES, GOSPEL, BLUES SHUFFLE, CONTEMPORARY, DIXIE, RAGTIME, TANGO 1, TANGO 2, LAMBADA, SAMBA, BOSSA 1, BOSSA 2, REGGAE, LATIN POP, LATIN ROCK, CHA-CHA, WALTZ, VIENNESE WALTZ, CHANSON, POLKA, HAWAIIAN, CALYPSO, NEW AGE, COUNTRY SHUFFLE, FOLKLORE, JAPANESE POP 1, JAPANESE POP 2, JAPANESE POP 3, JAPANESE POP 4, ENKA 1, ENKA 2, ONDO
RHYTHM SELECTORS & CONTROLS	POP 1/2, DANCE POP 1/2, 16 BEAT 1/2, ROCK'N', 16 BEAT 3, SLOW ROCK, SHUFFLE, COUNTRY 1/2, SWING 1/2, BIG BAND, BOOGIE, BOSSA, SAMBA, CHA-CHA, RHUMBA, MARCH, MARCH 6/8, WALTZ, J. WALTZ, DISK STYLE 1, DISK STYLE 2, START/STOP, INTRO/ENDING, NORMAL/FILL TO NORMAL, VARIATION/ FILL TO VARIATION, FILL IN BAR x 2, TEMPO ▲/▼, TEMPO Display, BEAT LED
KEYBOARD PERCUSSION	BANK 1: 41 Instruments, BANK 2: 50 Instruments
REVERB	ROOM, HALL 1, HALL 2, COSMIC
CUSTOM RHYTHM	CUSTOM RHYTHM, PROGRAM
PERFORMANCE MEMORY	RECORD 1/2/3-10, PLAY BACK 1/2/3-10, CHORD SEQUENCE
REGISTRATION	MEMORY, 1/2
DISK ORCHESTRA	SONG SELECT, LEFT ON, RIGHT ON, ORCH ON, PHRASE REPEAT, GUIDE, ▶/■ START/STOP, ◀◀ REW, ▶▶ FF, II PAUSE, SONG NUMBER Display, ▲/▼
DISK DRIVE & CONTROLES	3.5" Micro Floppy Disk, built-in. 2DD 1M. COPY, FORMAT
PEDAL CONTROLS RIGHT	DAMPER
CENTER	SOSTENUTO, BRIGHT
LEFT	SOFT (START/STOP, SOLO STYLEPLAY, PITCH BEND, BRIGHT)
OTHER CONTROLS	MASTER VOLUME, MIDI/TRANSPOSE, DEMO, POWER
JACKS & CONNECTORS	HEADPHONES x 2, AUX. OUT R and L/L + R, OPTIONAL IN R and L, MIDI IN/OUT/ THRU, EXP. PEDAL, MIC. VOL, MIC
INPUT & OUTPUT LEVEL/IMPEDANCE	AUX. OUT: 600 - 300 Ω/-4 dBm OPTIONAL IN: 22 kΩ/-10 dBm (for nominal output level)
MAIN AMPLIFIERS	120 W (60 W x 2)
SPEAKERS	13 cm (5-1/8") x 4, 10 cm (4") x 2, 5 cm (2") x 2
DIMENSIONS (W x D x H)	1390 mm x 663 mm x 833 mm (54-3/4" x 26-1/10" x 32-4/5")
WEIGHT	76.0 kg (167.5 lbs.)

Fingering Chart/Akkordliste/
Tablature/Gráfica de digitado

* All fingerings shown are simple root-position types.
* Die hier gezeigten Akkorde sind jeweils die Grundakkorde.
* Tous les doigtés indiqués sont du type à position fondamentale simple.
* Todos los digitados se muestran como tipos de posición de raíz sencilla.

Major Durakkord Majeur Mayor	Minor Mollakkord Mineur Menor	Seventh Septime Septième Séptima	Minor seventh Moll-Septakkord Septième mineure Menor de séptima
C	Cm	C7	Cm7
C# (Db)	C#m (Dbm)	C#7 (Db7)	C#m7 (Dbm7)
D	Dm	D7	Dm7
D# (Eb)	D#m (Ebm)	D#7 (Eb7)	D#m7 (Ebm7)
E	Em	E7	Em7
F	Fm	F7	Fm7
F# (Gb)	F#m (Gbm)	F#7 (Gb7)	F#m7 (Gbm7)
G	Gm	G7	Gm7
G# (Ab)	G#m (Abm)	G#7 (Ab7)	G#m7 (Abm7)
A	Am	A7	Am7
A# (Bb)	A#m (Bbm)	A#7 (Bb7)	A#m7 (Bbm7)
B	Bm	B7	Bm7

Fingering Chart/Akkordliste/Tablature/Gráfica de digitado

Major seventh	Minor major seventh	Augmented	Diminished
Durakkord mit großer Septime	Mollakkord mit großer Septime	Übermäßig	Vermindert
Septième majeure	Septième majeure mineure	Augmenté	Diminué
Mayor de séptima	Menor de séptima mayor	Aumentado	Disminuido

CM7	CmM7	Caug	Cdim
C#M7 (D♭M7)	C#mM7 (D♭mM7)	C#aug (D♭aug)	C#dim (D♭dim)
DM7	DmM7	Daug	Ddim
D#M7 (E♭M7)	D#mM7 (E♭mM7)	D#aug (E♭aug)	D#dim (E♭dim)
EM7	EmM7	Eaug	Edim
FM7	FmM7	Faug	Fdim
F#M7 (G♭M7)	F#mM7 (G♭mM7)	F#aug (G♭aug)	F#dim (G♭dim)
GM7	GmM7	Gaug	Gdim
G#M7 (A♭M7)	G#mM7 (A♭mM7)	G#aug (A♭aug)	G#dim (A♭dim)
AM7	AmM7	Aaug	Adim
A#M7 (B♭M7)	A#mM7 (B♭mM7)	A#aug (B♭aug)	A#dim (B♭dim)
BM7	BmM7	Baug	Bdim

174

Sixth
Sexte
Sixième
Sexta

Suspended fourth
Vorgehaltene Quarte
Quarte suspendue
Cuarta suspendida

Minor seventh flat five
Moll-Septakkord mit verminderter Quinte
Quinte bémol septième mineure
Menor de séptima quinta bemol

Major seventh flat five
Dur-Septakkord mit verminderter Quinte
Quinte bémol septième majeure
Mayor de séptima quinta bemol

C_6	$Csus_4$	Cm_{7-5}	CM_{7-5}
$C\#_6$ ($D\flat_6$)	$C\#sus_4$ ($D\flat sus_4$)	$C\#m_{7-5}$ ($D\flat m_{7-5}$)	$C\#M_{7-5}$ ($D\flat M_{7-5}$)
D_6	$Dsus_4$	Dm_{7-5}	DM_{7-5}
$D\#_6$ ($E\flat_6$)	$D\#sus_4$ ($E\flat sus_4$)	$D\#m_{7-5}$ ($E\flat m_{7-5}$)	$D\#M_{7-5}$ ($E\flat M_{7-5}$)
E_6	$Esus_4$	Em_{7-5}	EM_{7-5}
F_6	$Fsus_4$	Fm_{7-5}	FM_{7-5}
$F\#_6$ ($G\flat_6$)	$F\#sus_4$ ($G\flat sus_4$)	$F\#m_{7-5}$ ($G\flat m_{7-5}$)	$F\#M_{7-5}$ ($G\flat M_{7-5}$)
G_6	$Gsus_4$	Gm_{7-5}	GM_{7-5}
$G\#_6$ ($A\flat_6$)	$G\#sus_4$ ($A\flat sus_4$)	$G\#m_{7-5}$ ($A\flat m_{7-5}$)	$G\#M_{7-5}$ ($A\flat M_{7-5}$)
A_6	$Asus_4$	Am_{7-5}	AM_{7-5}
$A\#_6$ ($B\flat_6$)	$A\#sus_4$ ($B\flat sus_4$)	$A\#m_{7-5}$ ($B\flat m_{7-5}$)	$A\#M_{7-5}$ ($B\flat M_{7-5}$)
B_6	$Bsus_4$	Bm_{7-5}	BM_{7-5}

175
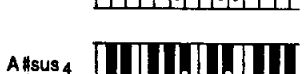
Fingering Chart/Akkordliste/Tablature/Gráfica de digitado

Half diminished (minor major seventh flat five)
Halbvermindert
Demi diminué (Quinte bémol septième majeure mineure)
Medio disminuido (menor de séptima mayor quinta bemol)

Minor sixth
Mollakkord mit hinzugefügter Sexte
Sixième mineure
Menor de sexta

Seventh suspended fourth
Septakkord mit vorgehaltener Quarte
Quarte suspendue septième
Séptima cuarta suspendida

Major flat five
Durakkord mit verminderter Quinte
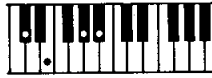**Quinte bémol majeure**
Mayor de quinta bemol

CmM7-5	Cm6	C7sus4	C-5
C#mM7-5 (DbmM7-5)	C#m6 (Dbm6)	C#7sus4 (Db7sus4)	C#-5 (Db-5)
DmM7-5	Dm6	D7sus4	D-5
D#mM7-5 (EbmM7-5)	D#m6 (Ebm6)	D#7sus4 (Eb7sus4)	D#-5 (Eb-5)
EmM7-5	Em6	E7sus4	E-5
FmM7-5	Fm6	F7sus4	F-5
F#mM7-5 (GbmM7-5)	F#m6 (Gbm6)	F#7sus4 (Gb7sus4)	F#-5 (Gb-5)
GmM7-5	Gm6	G7sus4	G-5
G#mM7-5 (AbmM7-5)	G#m6 (Abm6)	G#7sus4 (Ab7sus4)	G#-5 (Ab-5)
AmM7-5	Am6	A7sus4	A-5
A#mM7-5 (BbmM7-5)	A#m6 (Bbm6)	A#7sus4 (Bb7sus4)	A#-5 (Bb-5)
BmM7-5	Bm6	B7sus4	B-5

176

Minor flat five
Mollakkord mit verminderter Quinte
Quinte bémol mineure
Menor de quinta bemol

Seventh flat five
Septakkord mit verminderter Quinte
Quinte bémol septième
Séptima quinta bemol

Seventh sharp five
Dur-Septakkord mit erhöhter Quinte
Quinte dièse septième
Séptima quinta sostenida

Major seventh sharp five
Durakord mit Septime und erhöhter Quinte
Quinte dièse septième majeure
Mayor de séptima quinta sostenida

Minor flat five	Seventh flat five	Seventh sharp five	Major seventh sharp five
Cm-5	C7-5	C7+5	CM7+5
C#m-5 (D♭m-5)	C#7-5 (D♭7-5)	C#7+5 (D♭7+5)	C#M7+5 (D♭M7+5)
Dm-5	D7-5	D7+5	DM7+5
D#m-5 (E♭m-5)	D#7-5 (E♭7-5)	D#7+5 (E♭7+5)	D#M7+5 (E♭M7+5)
Em-5	E7-5	E7+5	EM7+5
Fm-5	F7-5	F7+5	FM7+5
F#m-5 (G♭m-5)	F#7-5 (G♭7-5)	F#7+5 (G♭7+5)	F#M7+5 (G♭M7+5)
Gm-5	G7-5	G7+5	GM7+5
G#m-5 (A♭m-5)	G#7-5 (A♭7-5)	G#7+5 (A♭7+5)	G#M7+5 (A♭M7+5)
Am-5	A7-5	A7+5	AM7+5
A#m-5 (B♭m-5)	A#7-5 (B♭7-5)	A#7+5 (B♭7+5)	A#M7+5 (B♭M7+5)
Bm-5	B7-5	B7+5	BM7+5

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YAMAHA [ Clavinova ]                              Date : 08/20, 1991
     Model  CVP75      MIDI Implementation Chart   Version : 1.1
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Function		Transmitted	Recognized	Remarks
Basic Channel	Default	1	1	
	Changed	1-16	1-16	
Mode	Default	3	1	
	Messages	X	OMNIon,OMNIoff	
		**************	X	
Note Number	: True voice	21-108	21-108	
		**************	21-108	
Velocity	Note on	O 9nH,v=1-127	O v=1-127	
	Note off	X 9nH,v=0	X	
After Touch	Key's	X	X	
	Ch's	X	X	
Pitch Bender		O	O	
Control Change	01	O	O	Modulation
	07	O	O	Volume
	10	O	O	Pan pot
	11	O	O	Expression
	32	O	O	Voice bank
	64	O	O	Damper
	66	O	O	Sostenuto
	67	O	O	Soft Pedal
	80	O	O	Bright Pedal
	91	O	O	Reverb Depth
	93	O	O	Chorus Depth
	121	X	O	Reset All Controllers *1
Program Change	: True #	O 0-59	O 0-127	
		*************	0-127	
System Exclusive		O	O	
System Common	Song Pos	X	X	
	Song Sel	X	X	
	Tune	X	X	
System Real Time	Clock	O	O	
	Commands	O	O	
Aux Mes- sages	Local ON/OFF	X	O	
	All Notes OFF	X	O (123-125) *1	
	Active Sense	O	O	
	Reset	X	X	

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:Notes : *1 = receive (121,123) if omni off or multi-timbre on
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Mode 1 : OMNI ON,  POLY     Mode 2 : OMNI ON,   MONO       O : Yes
Mode 3 : OMNI OFF, POLY     Mode 4 : OMNI OFF,  MONO       X : No
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FCC INFORMATION (U.S.A.)

1. IMPORTANT NOTICE: DO NOT MODIFY THIS UNIT!

This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Yamaha may void your authority, granted by the FCC, to use the product.

2. IMPORTANT: When connecting this product to accessories and/or another product use only high quality shielded cables. Cable/s supplied with this product MUST be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the USA.

3. NOTE: This product has been tested and found to comply with the requirements listed in FCC Regulations, Part 15 for Class "B" digital devices. Compliance with these requirements provides a reasonable level of assurance that your use of this product in a residential environment will not result in harmful interference with other electronic devices. This equipment generates/uses radio frequencies and, if not installed and used according to the instructions found in the users manual, may cause interference harmful to the operation of other electronic devices. Compliance with FCC regulations does not guarantee that interference will not occur in all installations. If this product is found to be the source of interference, which can be determined by turning the unit "OFF" and "ON", please try to eliminate the problem by using one of the following measures:

Relocate either this product or the device that is being affected by the interference.

Utilize power outlets that are on different branch (circuit breaker or fuse) circuits or install AC line filter/s.

In the case of radio or TV interference, relocate/reorient the antenna. If the antenna lead-in is 300 ohm ribbon lead, change the lead-in to co-axial type cable.

If these corrective measures do not produce satisfactory results, please contact the local retailer authorized to distribute this type of product. If you can not locate the appropriate retailer, please contact Yamaha Corporation of America, Electronic Service Division, 6600 Orangethorpe Ave, Buena Park, CA90620

The above statements apply ONLY to those products distributed by Yamaha Corporation of America or its subsidiaries.

* This applies only to products distributed by YAMAHA CORPORATION OF AMERICA.

NAME PLATE LOCATION: The nameplate is located on the bottom panel, toward the rear panel. The Model, Serial Number, Power requirements, etc., are indicated on this plate. You should note the model, serial number and the date of purchase in the spaces provided below and retain this manual as a permanent record of your purchase.

Model _____

Serial No. _____

Purchase Date _____

EMPLACEMENT DE LA PLAQUE SIGNALETIQUE: La plaque signalétique se trouve sur le panneau inférieur, côté panneau arrière. Le modèle, le numéro de série, l'alimentation requise et autres paramètres sont indiqués sur cette plaque. Inscrire le modèle, le numéro de série et la date de l'achat dans l'espace prévu cidessous et conserver le mode d'emploi à titre d'enregistrement permanent de l'achat.

Modèle _____

N° de série _____

Date de l'achat _____

LAGE DES TYPENSCHILDS: Das Typenschild befindet sich am Geräteboden neben der Rückwand. Modellbezeichnung, Seriennummer, Betriebsstrom etc, sind auf dem Typenschild angegeben. Tragen Sie Modellbezeichnung, Seriennummer und Kaufdatum in die unten vorhandenen Felder ein und bewahren Sie dieses Handbuch als permanenten Kaufbeleg auf.

Modell _____

Seriennummer _____

Kaufdatum _____

UBICACION DE LA PLACA DE CARACTERISTICAS: La placa de características está situada en el panel inferior, hacia el panel posterior. En esta placa se indican el modelo, el número de serie, la tensión de alimentación, etc. Anote el modelo, el número de serie, y la fecha de adquisición en los espacios ofrecidos a continuación, y guwarde este manual como registro permanente de su adquisición.

Modelo _____

N.º de serie _____

Fecha de adquisición _____

YAMAHA