

# PSS-595 Quick Reference

## How to Use This Booklet

The illustrated two page lay-out which follows shows the complete range of PortaSound functions. If you read the five numbered sections in sequence, you can easily grasp the fundamentals of operating the PortaSound including selecting Voices, Rhythm, Auto Accompaniment, and recording/playback by Song Memory, and a practice song. Of course, you can also read just those sections which are most important to you as needed. The caption, "↔ page xx in Owner's Manual" following the head lines, shows the page number in the Owner's Manual, where information can be found regarding more detailed operations, etc. Or, several functions are also explained in this booklet. They are shown by the caption, "↔ page xx in Quick Reference" following short introduction of them.

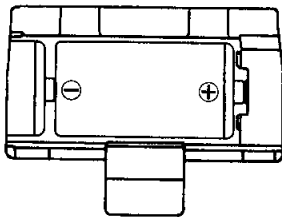
## Getting Started

First, complete the set-ups as shown in the following diagrams.

### Setting up the power supply (↔ page 3 in Owner's Manual)

#### When you are using batteries

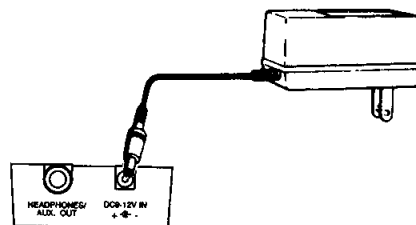
Flip the PortaSound over and open the battery case. Insert six batteries (dry cells: 1.5V SUM-2 or R-14) all facing the same direction as shown. Replace cover.



\* In case the batteries' voltage is lowered, you will hear the sounds become distorted. If you continue using the PortaSound, the indication <bt chn> will be displayed, which means "battery change" and warns that it's time to replace all six batteries with new ones.

#### When using an electrical outlet

An authorized optional AC adaptor (YAMAHA PA-3, PA-4, or PA-40) must be used. The adaptor is plugged into the DC 9-12V IN terminal located on the back of the instrument.



### Hook-up terminals for connections (↔ page 3 in Owner's Manual)

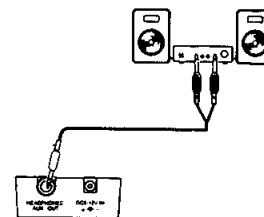
#### To use headphones

Plug the headphones into the terminal marked: HEADPHONES/AUX. OUT. When the jack is plugged in, the speakers of the PortaSound will no longer play out, thereby enabling you to enjoy making music without disturbing those around you.



#### To connect to keyboard amplifier or stereo

If you use a keyboard or stereo amplifier you can greatly enhance the overall sound. Plug in an Audio connection cord from the PortaSound's HEADPHONES/AUX. OUT terminal to the amplifier's <LINE IN>, <AUX. IN>, etc.

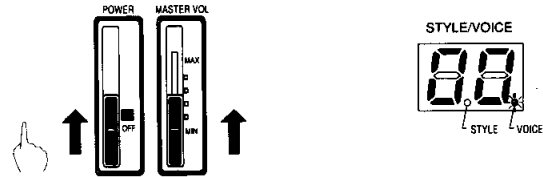


\* In both cases of connections, you adjust the volume using the Master Volume control of the PortaSound.

# All About the PSS-595

## (1) Sound Setup (⇔ page 8 in Owner's Manual)

Turn the POWER switch to the ON position and slide the MASTER VOLUME control to a suitable position. As you press the keys, Voice number 00 PIANO sound will be heard.



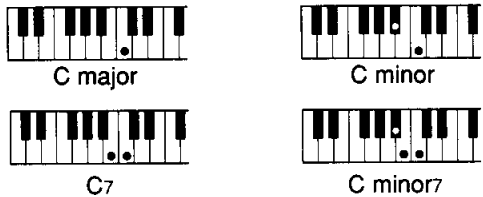
## (4) Auto Accompaniment

(⇔ page 16 in Owner's Manual)

When chords are played in either SINGLE FINGER or FINGERED methods, the Auto Accompaniment will add arrangements in the Style currently selected.

**Single Finger:** Use this fingering to establish the whole chord in easy way.

<Example>

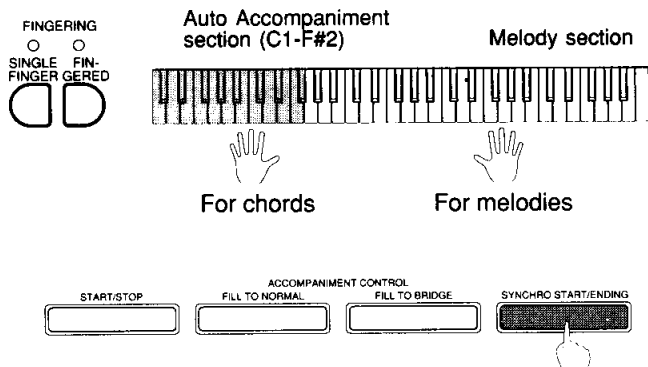


**Fingered:** Using this fingering method to play chords normally.

\* Consult the easy-to-read Chord Tables on pages 20 to 22 in the Owner's Manual.

## Basic Procedure

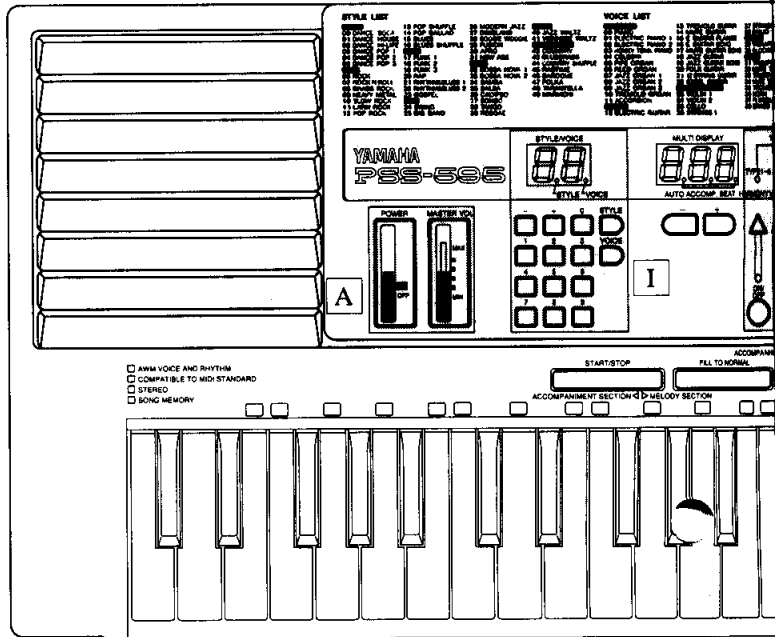
- Step 1:** Select the Fingering (press either button).
- Step 2:** When you play a chord (with appropriate fingering) within the Auto Accompaniment section of the keyboard, the Auto Accompaniment will automatically start. Play in the Melody section of the keyboard with the current Voice.
- Step 3:** To stop the Auto Accompaniment, press the STOP button, or by pressing the SYNCHRO START/ENDING button to finish the song after an Ending phrase is played. (⇔ page 6 in Quick Reference)



## (5) Song Memory (⇔ page 23 in Owner's Manual)

By using the Song Memory function you can easily record or playback your performances. But even better, there are 2 separate tracks available for each song, and a total of 3 songs can be memorized at a time, which supplies you with lots of opportunity for creating and storing original Songs. (⇔ page 7 in Quick Reference)

C



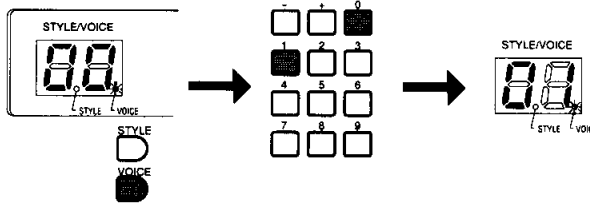
## (2) Selection of Voices and Styles

(⇔ pages 8 and 12 in Owner's Manual)

**Step 1:** To select a Voice, first press the VOICE button, or to select a Style, press the STYLE button.

**Step 2:** Consulting either the Voice or Style List located on the control panel, enter the Voice or Style number using the numerical keypad. Enter a two digit number, the tens column first, then the ones column to be indicated on the STYLE/VOICE display. Use the +/- buttons of the keypad by raising or lowering the current value for another selection. To select Voice number 01: ELECTRIC PIANO 1, press buttons in the order, VOICE, 0,1.

**Step 3:** When you press the keys, it will now play in the Voice you have just selected.



I

After a Style selection, press the START/STOP button of the ACCOMPANIMENT CONTROL to start or stop the rhythm.

## Voice Effects (⇔ page 10 in Owner's Manual)

The PortaSound comes equipped with four different effects such as Reverb, which can give the impression of being in a concert hall to your sound, plus Sustain, Volume, and Harmony. (⇔ page 4 in Quick Reference)

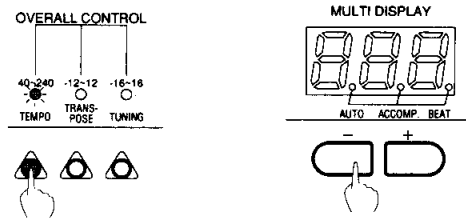
H

## (3) Tempo (⇔ page 13 in Owner's Manual)

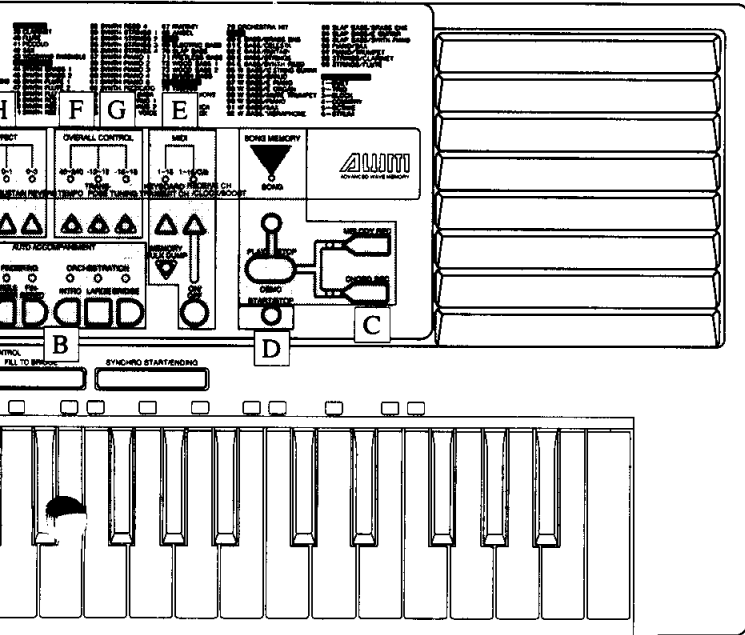
Each Style has a Preset Tempo, but you can adjust it easily:

**Step 1:** Press the TEMPO button and the MULTI DISPLAY will indicate the current tempo value.

**Step 2:** Adjust the Tempo by pressing the Increment <+> or Decrement <-> button located under the MULTI DISPLAY.



G



## Tuning/Transposing

(⇔ page 9 in Owner's Manual)

When you play along with another instrument or sound source, the Tuning function allows you to match the pitch of the PortaSound to another sound source. On the other hand, with the Transposing function you can easily change the key of the music you play in without changing the fingering at all.

(⇔ page 5 in Quick Reference)

F

## MIDI (⇔ page 28 in Owner's Manual)

Using MIDI, you can operate the PortaSound as a master keyboard to play another MIDI instrument, or vice versa.

(⇔ page 10 in Quick Reference)

E

## Demonstration

To hear the demonstration song, press the DEMO START/STOP button anytime. The song will keep repeating until you press the button once again.



D

## Voice Effects (⇒ page 10 in Owner's Manual)

Four different Voice Effects are provided as follows:

### Harmony

While playing a single melody line, this effect allows you to easily add colorful chordal type harmonies. The PortaSound provides you with 6 different types of Harmony Effects: 1) DUET, 2) TRIO, 3) BLOCK, 4) COUNTRY, 5) OCTAVE, and 6) STRUM. They work especially well when you use the Auto Accompaniment because they varies according to the chords being played in Auto Accompaniment section.

### Volume

This effect allows you to adjust the volume of Voice selections you play with, to contrast them with Rhythm or Accompaniment sounds. The volume levels can be assigned in the range of: 0 to 24. Note that the value <0> makes no sound reproduction for melodies.

### Sustain

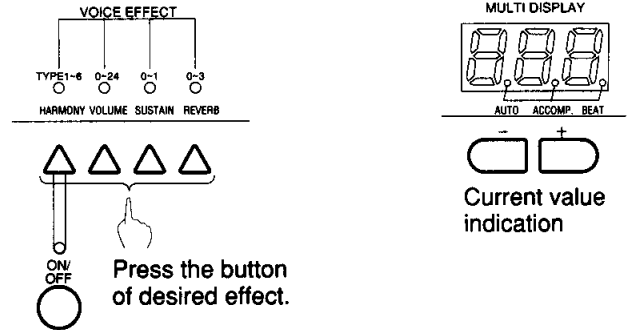
This Effect adds Sustain to the Voice selections which holds the notes even after releasing the keys and lends warmth to the mood. It is possible to assign as either 0=OFF, or 1=ON.

### Reverb

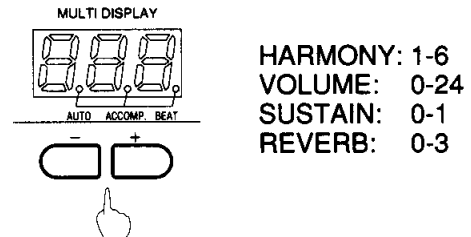
This effect adds Reverberations to your sounds. It gives width and depth to your music that almost gives the impression of being in a concert hall. The Reverb effect can be assigned within the range of: 0=OFF, 1=shallow to 3=deep.

## • Assigning Voice Effects

**Step 1:** Press the button of the desired effect located in the VOICE EFFECT select, the LED will light up and the MULTI DISPLAY shows the current value of that effect (or in the case of Harmony Effect, the Harmony type is shown).

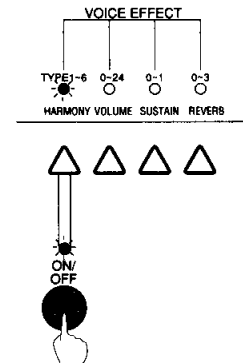


**Step 2:** Assign the desired value using the Increment <+>/Decrement <-> buttons located under the MULTI DISPLAY. If the indication <-- --> is shown in the MULTI DISPLAY, this means that the Voice Effect value for the current Voice has been pre-fixed.



**Step 3:** Only for Harmony effect:

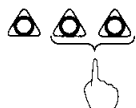
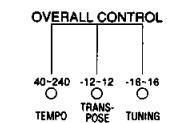
To press the HARMONY ON/OFF button, the LED will light up. And the Harmony Effect will now be activated to play the Harmony type.



# Tuning and Transposing

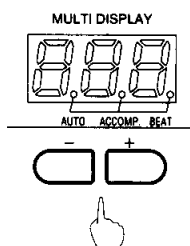
(⇒ page 9 in Owner's Manual)

**Step 1:** Press the button of the desired function located in the OVERALL CONTROL select (TUNING or TRANSPOSE), the corresponding LED will light up, and the MULTI DISPLAY shows the value currently assigned.



Press either button.

**Step 2:** Press the Increment <+>/Decrement <-> buttons located under the MULTI DISPLAY to assign a new value. The possible range of Tuning and Transposing value are as follows:



## Tuning:

- 16=approx. a quarter tone lower than standard pitch
- 0=Standard pitch
- 16=approx. a quarter tone higher than standard pitch

## Transposing:

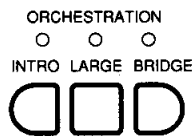
- 12=one octave down
- 0=Standard pitch
- 12=one octave up

# Auto Accompaniment

(⇒ page 16 in Owner's Manual)

Now that we have explained the basic operations on previous pages, here we will explain additional functions of Auto Accompaniment.

## ● Orchestration



**INTRO button:** If you press this button, the LED will light up, and when the Auto Accompaniment is started, it will play an Introduction pattern first. The length and type of pattern differ depending on the Style currently selected.

**LARGE button:** This button is for selecting (even during play) the Type of Instrumentation for the Auto Accompaniment: Large or Small ensemble. When you press the LARGE button and the LED lights up, you will have the Large ensemble effect, and when the LED is not lit, the Small ensemble effect.

**BRIDGE button:** This button is for adding a variation to the Rhythm or Arrangement in the current Style. Any time you press the BRIDGE button, the LED will light up, and the Bridge pattern will be selected. When the LED is not lit up, the Normal pattern will be set up.

## ● Accompaniment Control

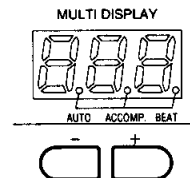


**START/STOP button:** Normally activates or disactivates the Auto Accompaniment.

**FILL TO NORMAL button:** During play, this provides a fill-in pattern in the currently selected Style, which then continues to play the Normal accompaniment pattern.

**FILL TO BRIDGE button:** During play, this provides a fill-in pattern which then continues to play the accompaniment pattern used in the Bridge section of a song.

**SYNCHRO START/ENDING button:** Synchro Start is to start the Auto Accompaniment by the first touch of the keys. Normally, at the time when you have assigned the Fingering, the PortaSound will automatically be in the Synchro Start stand by position. To start the accompaniment, play the Auto Accompaniment keys. If you wish to cancel SYNCHRO START, press the SYNCHRO START/ENDING button which acts as an Off button at this point. When SYNCHRO START is selected, the three dots located in the MULTI DISPLAY blink simultaneously. However, during play this button provides an Auto Accompaniment Ending pattern which starts in the next measure, for when you're ready to finish a song.



When SYNCHRO START is selected (: Stand By position)

So far, we have explained the use of these buttons from the standpoint of Auto Accompaniment, but if you operate these buttons without selecting a Fingering (in other words, not using other accompaniment except Rhythm) they will still work in the same way. At this time you can use the current Voice on all the keys, including the Auto Accompaniment section.

\* In case you use the PortaSound without selecting a Fingering, Synchro Start will start a rhythm by the touch of any key.

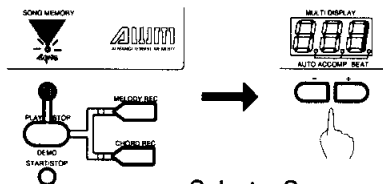
# Song Memory

(⇒ page 23 in Owner's Manual)

## • How to Record a Song

### Step 1: Select a Song number.

Choose the Song (1-3) which you want to record on by pressing the Increment <+>/Decrement <-> buttons under the MULTI DISPLAY.



Select a Song number by pressing the Increment <+>/Decrement <-> buttons.

Select a Song number for playback, in the same way.

### Step 2: Prepare for recording.

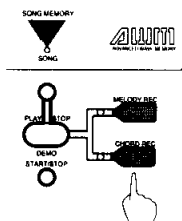
Before selecting a recording track, you might need some preparation depending on which track you wish to record on. So note the following preparations:

**Preparation for MELODY track:** Select the Voice desired. (⇒ page 3 in Quick Reference)

**Preparation for CHORD track:** Select the desired Style, Orchstration, and Fingering for Auto Accompaniment. (⇒ pages 2 and 6 in Quick Reference)

### Step 3: Select the recording track.

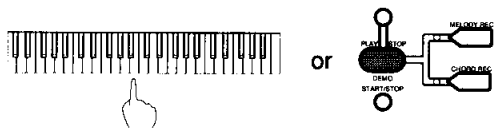
When you press the MELODY REC or CHORD REC button, the desired track enters Recording Stand By position. At this time the Metronome will start in the currently assigned tempo.



Press a REC button.

### Step 4: Start recording.

Start the recording by touching any key (Synchro Start), or pressing the PLAY/STOP button. On recording except Auto Accompaniment, the Metronome will sound as a guide rhythm.



### Step 5: Stop recording.

You can stop recording by pressing the PLAY/STOP button. Or, when you're recording on the AUTO ACCOMP. track, you can finish the recording with an Ending pattern by pressing the SYNCHRO START/ENDING button of ACCOMPANIMENT CONTROL.

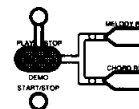


## • How to Playback a Song

**Step 1:** First, choose the Song number which you want to playback (same way as when you recorded).

**Step 2:** Press the Select button of the Track which you want to playback, the LED of that track will light up (Playback Stand By position). If a track has no record, the Track LED will not light even when the Select button is pressed.

**Step 3:** When you press the PLAY/STOP button, the recorded performance will be played back. When you reach the end of the Song, the playback will stop automatically. Or, you can stop the playback at any time, by pressing the PLAY/STOP button.



## • 2nd Recording

You can now record on the remaining Track using the same recording procedure. If you want to listen to the playback of the track already recorded during 2nd recording, press the Track select button to light up the Track LED.

# Let's Practice!

The following music has been based on the demonstration song, but is arranged in a Dance Pop style. Using the operations outlined on the next page, let's try actually recording into the Song Memory.

Melody

Obbligato

Chord

Am D7 Am D7

The first system of music consists of three staves. The top staff is labeled 'Melody' and contains a treble clef with a whole rest in the first measure and a quarter note G4 in the second measure. The second staff is labeled 'Obbligato' and contains a treble clef with a whole rest in the first measure and a quarter note G4 in the second measure. The third staff is labeled 'Chord' and contains a treble clef with a whole note chord Am in the first measure and a whole note chord D7 in the second measure. Above the staves, the chord symbols 'Am' and 'D7' are written above the first and second measures respectively.

F E7 Am Gm C7

The second system of music consists of three staves. The top staff is labeled 'Melody' and contains a treble clef with a whole note chord F in the first measure, a quarter note G4 in the second measure, a quarter note A4 in the third measure, a quarter note B4 in the fourth measure, and a quarter note C5 in the fifth measure. The second staff is labeled 'Obbligato' and contains a treble clef with a whole note chord F in the first measure, a whole note chord E7 in the second measure, a whole note chord Am in the third measure, a whole note chord Gm in the fourth measure, and a whole note chord C7 in the fifth measure. The third staff is labeled 'Chord' and contains a treble clef with a whole note chord F in the first measure, a whole note chord E7 in the second measure, a whole note chord Am in the third measure, a whole note chord Gm in the fourth measure, and a whole note chord C7 in the fifth measure. Above the staves, the chord symbols 'F', 'E7', 'Am', 'Gm', and 'C7' are written above the first, second, third, fourth, and fifth measures respectively.

F E7 Am G

The third system of music consists of three staves. The top staff is labeled 'Melody' and contains a treble clef with a whole note chord F in the first measure, a quarter note G4 in the second measure, a quarter note A4 in the third measure, and a quarter note B4 in the fourth measure. The second staff is labeled 'Obbligato' and contains a treble clef with a whole note chord F in the first measure, a whole note chord E7 in the second measure, a whole note chord Am in the third measure, and a whole note chord G in the fourth measure. The third staff is labeled 'Chord' and contains a treble clef with a whole note chord F in the first measure, a whole note chord E7 in the second measure, a whole note chord Am in the third measure, and a whole note chord G in the fourth measure. Above the staves, the chord symbols 'F', 'E7', 'Am', and 'G' are written above the first, second, third, and fourth measures respectively.

Am

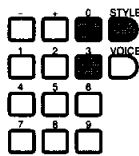
The fourth system of music consists of three staves. The top staff is labeled 'Melody' and contains a treble clef with a whole rest in the first measure and a whole rest in the second measure. The second staff is labeled 'Obbligato' and contains a treble clef with a whole rest in the first measure and a whole rest in the second measure. The third staff is labeled 'Chord' and contains a treble clef with a whole note chord Am in the first measure and a whole rest in the second measure. Above the staves, the chord symbol 'Am' is written above the first measure.

↑ Press SYNCHRO START/ENDING button.



## ● Recording of Accompaniment section

**Step 1:** Select the Style number 03: DANCE POP 1.



Press buttons in the order, STYLE, 0, and 3.

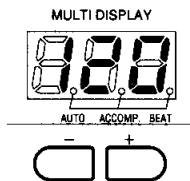
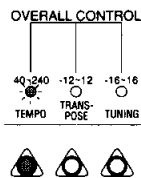
**Step 2:** Select the Fingering for the Auto Accompaniment. Press the SINGLE FINGER button.



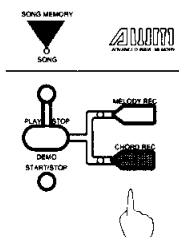
**Step 3:** Set the Orchestration to Large ensemble.



**Step 4:** Set the Tempo at 120.



**Step 5:** Press the CHORD REC button in the Song Memory. At this time you will be in Recording Stand By position as the Metronome sound will start.

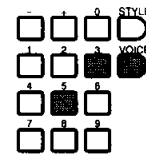


Press the CHORD REC button.

**Step 6:** Now start recording the accompaniment section to the Metronome beat. Reading through the chords of the song, play until finished.

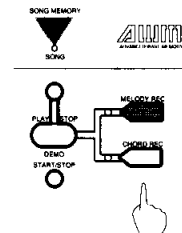
## ● Recording of Obligato section

**Step 7:** Select the Voice number 53: SYNTH STRINGS 1.



Press the buttons in the order, VOICE, 5, and 3.

**Step 8:** Press the MELODY REC button in the Song Memory (Recording Stand By position).



Press the MELODY REC button.

**Step 9:** Press the PLAY/STOP button of Song Memory. As you listen to the playback of the accompaniment already recorded, you can record the obligato section of the song. (Start to play phrase from the 5th measure.)

## ● Manual Performance of Melody section

**Step 10:** Select the Voice number 38: BRASS ENSEMBLE.

**Step 11:** Press the PLAY/STOP button of Song Memory. As you listen to the playback of the accompaniment and obligato sections already recorded, you can play manually the melody section of the song. (Start to play phrase from the 4th measure.)

\* The "Demo Tune" of this keyboard is "Demonstration" purposes only. It is not possible to reproduce the "Demo Tune" 100%.

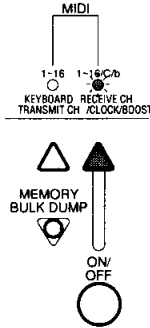
# MIDI Functions and Operations

(⇒ page 28 in Owner's Manual)

The Owner's Manual starting on page 28, explains fully about MIDI in easy-to-understand terminology, so we recommend you read it through once. Here, we will explain the PortaSound's MIDI functions and operations.

## • Receive Channel Selection

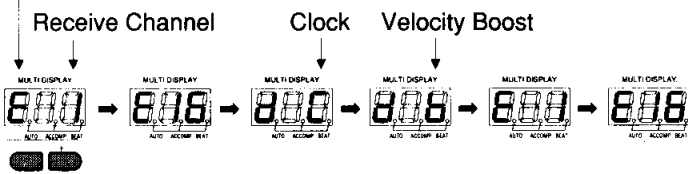
Specifies Receive Channel On/Off, MIDI Clock reception, and Velocity Boost.



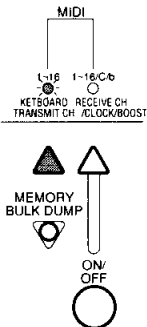
**Step 1:** When you press the RECEIVE CH/CLOCK/BOOST button of the MIDI select, the corresponding LED will light up, and the MULTI DISPLAY will show the current setting.

**Step 2:** Each time you press the Increment <+> button under the MULTI DISPLAY, the indication will change and then loop as shown. You can loop in the opposite direction by using the Decrement <-> button.

<E>: Enable to Receive or ON  
<d>: Disable to Receive or OFF



**Step 3:** Assign <E> (Enable to Receive or ON), or <d> (Disable to Receive or OFF) to: each Receive Channel, MIDI Clock, and Velocity Boost by pressing the ON/OFF button located under the RECEIVE CH/CLOCK/BOOST button, which alternately selects <E> or <d>.

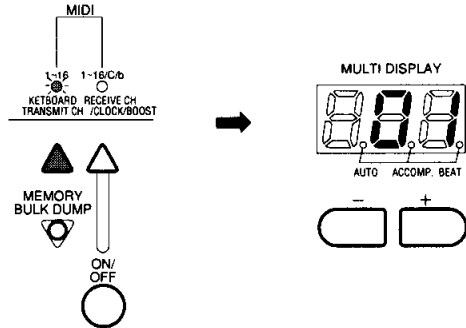


Receive Channel (1-16): <E>; Received, <d>; Not Received  
MIDI Clock: <E>; Received, <d>; Not Received  
Velocity Boost: <E>; ON, <d>; OFF

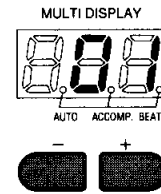
## • Transmit Channel Selection

Specifies Transmit Channel of the keyboard and Transmits the System Exclusive data of the PortaSound (Bulk Dump).

**Step 1:** As you press the KEYBOARD TRANSMIT CH button of the MIDI select, the corresponding LED will light up and the MULTI DISPLAY will show the current Transmit Channel of the keyboard.



**Step 2:** If you want to change the value, press the Increment<+> or Decrement<-> buttons to select the Transmit Channel.



**Step 3:** As a consecutive operation to Step 1, press the MEMORY BULK DUMP button once, the MULTI DISPLAY will show: <b d P> indicating the PortaSound will now be in the Bulk Dump mode and all other functions will automatically Stop.

When you press the MEMORY BULK DUMP button once again, the Bulk Dump process will begin execution. On the completion of Bulk Dump process, the MULTI DISPLAY will automatically return to the current Tempo indication. In the Bulk Dump mode, you can transfer all data contained in the Song Memory at once to a sequencer, etc.

