

DIGITAL KEYBOARD



MIDI Reference

Yamaha

Date:2-SEP-2013 Version · 1 0

| Yamaha | Model PSR- | E443 MIDI Impleme | ntation Chart | Date:2-SEP-2013 Version : 1.0 | | |
|---------------------|--|--|--|--|--|--|
| Fun | ction | Transmitted | Recognized | Remarks | | |
| Basic Channel | Default Changed | 1 - 16 x | 1 - 16 x | | | |
| Mode | Default Messages Altered | 3 x ***** | 3 x x | | | |
| Note Number : | True voice | 0 - 127 ***** | 0 - 127 0 - 127 | | | |
| Velocity | Note ON Note OFF | o 9nH,v=1-127 x | o 9nH,v=1-127 x | | | |
| After Touch | Key's Ch's | X X | x x | | | |
| Pitch Ben | d | 0 | 0 | | | |
| Control Change | 0,32 1 6 38 7,10 11 64 71-74 84 91,93 96-97 100-101 | 0 *1 0 *1 0 *1 0 *1 0 *1 0 *1 0 *1 0 *1 0 *1 0 *1 0 *1 0 *1 0 *1 | | Bank Select Modulation Data Entry (MSB) Data Entry (LSB) Main Volume, Pan Expression Sustain Sound Controller Portamento Control Effect Depth RPN Inc, Dec RPN LSB, MSB | | |
| Prog Change : | True # | 0 0 - 127 ****** | 0 0 - 127 | | | |
| System Ex | clusive | 0 | 0 | | | |
| | Song Pos. Song Sel. Tune | x x x | x x x | | | |
| System Real Time | :Clock :Commands | 0 | 0 0 | | | |
| :Rese :Loc | | 0 X X X 0 X | o(120,126,127) o(121) o(122) o(123-125) o x | | | |

*1 Refer to #2 on page 3. Mode 1 : OMNI ON , POLY Mode 2 : OMNI ON , MONO Mode 3 : OMNI OFF, POLY Mode 4 : OMNI OFF, MONO

NOTE:

- 1 By default (factory settings) the instrument ordinarily functions as a 16-channel multi-timbral tone generator, and incoming data does not affect the panel voices or panel settings. However, the MIDI messages listed below do affect the panel voices, auto accompaniment, and songs.
 - MIDI Master Tuning
 - System exclusive messages for changing the Reverb Type and Chorus Type.
- 2 Messages for these control change numbers cannot be transmitted from the instrument itself. However, they may be transmitted when playing the accompaniment, song or using the Harmony effect.
- 3 Exclusive

<GM System ON>

F0H, 7EH, 7FH, 09H, 01H, F7H

• This message automatically restores all default settings for the instrument, with the exception of MIDI Master Tuning.

<MIDI Master Volume>

F0H, 7FH, 7FH, 04H, 01H, ll, mm, F7H

- This message allows the volume of all channels to be changed simultaneously (Universal System Exclusive).
- The values of "mm" is used for MIDI Master Volume. (Values for "ll" are ignored.)

<MIDI Master Tuning>

F0H, 43H, 1nH, 27H, 30H, 00H, 00H, mm, ll, cc, F7H

- This message simultaneously changes the tuning value of all channels.
- The values of "mm" and "ll" are used for MIDI Master Tuning.
- The default value of "mm" and "ll" are 08H and 00H, respectively. Any values can be used for "n" and "cc".

<Reverb Type>

- F0H, 43H, 1nH, 4CH, 02H, 01H, 00H, mmH, 11H, F7H
- mm : Reverb Type MSB
- ll : Reverb Type LSB

Refer to the Effect Map (page 3) for details.

<Chorus Type>

- F0H, 43H, 1nH, 4CH, 02H, 01H, 20H, mmH, 1lH, F7H
- mm : Chorus Type MSB
- Il : Chorus Type LSB
- Refer to the Effect Map (page 3) for details.
- 4 When the accompaniment is started, an FAH message is transmitted. When accompaniment is stopped, an FCH message is transmitted. When the clock is set to External, both FAH (accompaniment start) and FCH (accompaniment stop) are recognized.

5 Local ON/OFF

<Local ON> Bn, 7A, 7F <Local OFF> Bn, 7A, 00 Value for "n" is ignored.

Effect map

- * When a Type LSB value is received that corresponds to no effect type, a value corresponding to the effect type (coming the closest to the specified value) is automatically set.
- * The numbers in parentheses in front of the Effect Type names correspond to the number indicated in the display.

REVERB

| TYPE MSB | TYPE LSB | | | | | | | | |
|-------------|-----------|----|----|----|------------|------------|----|-----------|----|
| | 00 | 01 | 02 | 08 | 16 | 17 | 18 | 19 | 20 |
| 000 | No Effect | | | | | | | | |
| 001 | (01)Hall1 | | | | (02)Hall2 | (03)Hall3 | | | |
| 002 | Room | | | | | (04)Room1 | | (05)Room2 | |
| 003 | Stage | | | | (06)Stage1 | (07)Stage2 | | | |
| 004 | Plate | | | | (08)Plate1 | (09)Plate2 | | | |
| 005127 | No Effect | | | | | | | | |

CHORUS

| TYPE MSB | TYPE LSB | | | | | | | | |
|-------------|-------------|----|-------------|--------------|----|--------------|----|----|----|
| | 00 | 01 | 02 | 08 | 16 | 17 | 18 | 19 | 20 |
| 000063 | No Effect | | | | | | | | |
| 064 | No Effect | | | | | | | | |
| 065 | (03)Chorus3 | | (02)Chorus2 | | | | | | |
| 066 | Celeste | | | | | (01)Chorus1 | | | |
| 067 | Flanger | | | (04)Flanger1 | | (05)Flanger2 | | | |
| 068127 | No Effect | | | | | | | | |