

VIVO S10_MIDI IMPLEMENTATION

1. Received data

■ Channel Voice Messages

● Note off

| Status | 2nd byte | 3rd byte |
|--------|----------|----------|
| 8nH | kkH | ccH |

n= MIDI channel number: 0H~FH (Ch.1~16)
kk= note number: 00H~7FH (0~127)
cc= note off velocity: 00H~7FH (0~127)

● Note on

| Status | 2nd byte | 3rd byte |
|--------|----------|----------|
| 9nH | kkH | vvH |

n= MIDI channel number: 0H~FH (Ch.1~16)
kk= note number: 00H~7FH (0~127)
vv= note off velocity: 00H~7FH (0~127)

- Not received when Rx.STATUS= OFF. (Initial value is ON)

■ Control Change

● Bank Sound Select (Controller number 0, 32)

| Status | 2nd byte | 3rd byte |
|--------|----------|----------|
| BnH | 00H | mmH |

n= MIDI channel number: 0H~FH (Ch.1~16)
mm= Bank number MSB: 00H~7FH (Initial value= 00H)

● Modulation (Controller number 1)

| Status | 2nd byte | 3rd byte |
|--------|----------|----------|
| BnH | 01H | vvH |

n= MIDI channel number: 0H~FH (Ch.1~16)
vv= Modulation depth: 00H~7FH (0~127)

- Not received when Rx.MODULATION= OFF (Initial value is ON).

● Volume (Controller number 7)

| Status | 2nd byte | 3rd byte |
|--------|----------|----------|
| BnH | 07H | vvH |

n= MIDI channel number 0H~FH (Ch.1~16)
vv= Volume: 00H~7FH (0~127),

- Not received when Rx.VOLUME= OFF (Initial value is ON).

● Panpot (Controller number 10)

| Status | 2nd byte | 3rd byte |
|--------|----------|----------|
| BnH | 0AH | vvH |

n= MIDI channel number: 0H~FH (Ch.1~16)
vv= pan: 00H~40H~7FH (Left~Center~Right). Initial value= 40H (Center)

- Not received when "Panpot" RX is Off

● Expression (Controller number 11)

| Status | 2nd byte | 3rd byte |
|--------|----------|----------|
| BnH | 0BH | vvH |

n= MIDI channel number: 0H~FH (Ch.1~16)
vv= Expression: 00H~7FH (0~127), Initial value= 7FH (127)

- Not received when "Expression" RX is Off.

● Hold (Controller number 64)

| Status | 2nd byte | 3rd byte |
|--------|----------|----------|
| BnH | 40H | vvH |

n= MIDI channel number: 0H~FH (Ch.1~16)
vv= Control value: 00H~7FH (0~127)

- Not received when "Hold" RX is Off.

● Sostenuto (Controller number 66)

| Status | 2nd byte | 3rd byte |
|--------|----------|----------|
| BnH | 42H | vvH |

n= MIDI channel number: 0H~FH (Ch.1~16)
vv= Control value: 00H~7FH (0~127) 0~63= OFF, 64~127= ON

- Not received when "Sostenuto" RX is Off.

● Soft (Controller number 67)

| Status | 2nd byte | 3rd byte |
|--------|----------|----------|
| BnH | 43H | vvH |

n= MIDI channel number: 0H~FH (Ch.1~16)
vv= Control value: 00H~7FH (0~127) 0~63= OFF, 64~127= ON

- Not received when "Soft" RX is Off.

● Reverb Send Level (Controller number 91)

| Status | 2nd byte | 3rd byte |
|--------|----------|----------|
| BnH | 5BH | vvH |

n= MIDI channel number: 0H~FH (Ch.1~16)
vv= Reverb Send Level: 00H~7FH (0~127)

- This message adjusts the Reverb Send Level of each Part.
- Not received when "Reverb" RX is Off.

● Program Change

| Status | 2nd byte |
|--------|----------|
| CnH | ppH |

n= MIDI channel number: 0H~FH (Ch.1~16)
pp= Program number: 00H~7FH (prog.1~prog.128)

- Not received when "PG" RX is Off.

● Pitch Bend Change

Status 2nd byte 3rd byte

EnH lH mmH

n= MIDI channel number: 0H~FH (Ch.1~16)

mm, ll= Pitch Bend value: 00 00H~40 00H~7F 7FH (-8192~0~+8191)

- Not received when "PB" RX is Off.

● AFTERTOUC (Channel Pressure)

Status 2nd byte

DnH vvH

n= MIDI channel number: 0H~FH (Ch.1~16)

vv= value: 00H~7FH (0~127)

- Not received when "Aftertouch" RX is Off.
- The Aftertouch will affect to all notes received in that channel.

■ Channel Mode Messages

● All Sounds Off (Controller number 120)

Status 2nd byte 3rd byte

BnH 78H 00H

n= MIDI channel number: 0H~FH (Ch.1~16)

When the message is received, all notes currently sounding on the corresponding channel will be turned Off.

● Reset All Controllers (Controller number 121)

Status

BnH

n= MIDI channel number: 0H~FH (Ch.1~16)

- When this message is received, the 2nd and 3rd bytes of their reset values. 79H 00H

Controller Reset value: Pitch Bend Change +/-0 (center), Modulation 0 (off),

Expression 127 (max), Hold 1 0 (off), Sostenuto 0 (off), Soft 0 (off).

● All Notes Off (Controller number 123)

Status

BnH

n= MIDI channel number: 0H~FH (Ch.1~16)

When All Notes Off message is received, the 2nd and 3rd bytes

will be turned off. 7BH 00H

be continued until these are turned off.

■ System Realtime Messages

● Active Sensing

Status

FEH

- This message is received at intervals of approximately 250 ms.

■ Memory RX

| Midi Message | Value | Memory |
|--------------|-------|-------------|
| CC00 | 0~8 | BANK : 1~9 |
| PG | 0~8 | NUMBER: 1~9 |

- Default MIDI channel is 15

Example:

- to receive Memory 1.1 send CC00=0, PG=0
- to receive Memory 4.2 send CC00=3, PG=1
- Not received when "Memory RX Status" is Off.

■ TONE WHEEL MIDI Messages

● MAIN TW 16' (Controller number 16)

Status 2nd byte 3rd byte

BnH 10H vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not received when "Organ Control - Status" RX is Off.

● MAIN TW 5 1/3' (Controller number 17)

Status 2nd byte 3rd byte

BnH 11H vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not received when "Organ Control - Status" RX is Off.

● MAIN TW 8' (Controller number 18)

Status 2nd byte 3rd byte

BnH 12H vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not received when "Organ Control - Status" RX is Off.

● MAIN TW 4' (Controller number 19)

Status 2nd byte 3rd byte

BnH 13H vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not received when "Organ Control - Status" RX is Off.

● **MAIN TW 2 2/3' (Controller number 20)**

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
|--------|----------|----------|

| | | |
|-----|-----|-----|
| BnH | 14H | vvH |
|-----|-----|-----|

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not received when "Organ Control - Status" RX is Off.

● **MAIN TW 2' (Controller number 21)**

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
|--------|----------|----------|

| | | |
|-----|-----|-----|
| BnH | 15H | vvH |
|-----|-----|-----|

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 2nd byte 3rd byte

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not received when "Organ Control - Status" RX is Off.

● **MAIN TW 1 3/5' (Controller number 22)**

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
|--------|----------|----------|

| | | |
|-----|-----|-----|
| BnH | 16H | vvH |
|-----|-----|-----|

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not received when "Organ Control - Status" RX is Off.

● **MAIN TW 1 1/3' (Controller number 23)**

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
|--------|----------|----------|

| | | |
|-----|-----|-----|
| BnH | 17H | vvH |
|-----|-----|-----|

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not received when "Organ Control - Status" RX is Off.

● **MAIN TW 1' (Controller number 24)**

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
|--------|----------|----------|

| | | |
|-----|-----|-----|
| BnH | 18H | vvH |
|-----|-----|-----|

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not received when "Organ Control - Status" RX is Off.

● **LOWER TW 16' (Controller number 70)**

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
|--------|----------|----------|

| | | |
|-----|-----|-----|
| BnH | 46H | vvH |
|-----|-----|-----|

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not received when "Organ Control - Status" RX is Off.

● **LOWER TW 5 1/3'(Controller number 71)**

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
|--------|----------|----------|

| | | |
|-----|-----|-----|
| BnH | 47H | vvH |
|-----|-----|-----|

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not received when "Organ Control - Status" RX is Off.

● **LOWER TW 8' (Controller number 72)**

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
|--------|----------|----------|

| | | |
|-----|-----|-----|
| BnH | 48H | vvH |
|-----|-----|-----|

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not received when "Organ Control - Status" RX is Off.

● **LOWER TW 4'(Controller number 73)**

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
|--------|----------|----------|

| | | |
|-----|-----|-----|
| BnH | 49H | vvH |
|-----|-----|-----|

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not received when "Organ Control - Status" RX is Off.

● **LOWER TW 2 2/3' (Controller number 74)**

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
|--------|----------|----------|

| | | |
|-----|-----|-----|
| BnH | 4AH | vvH |
|-----|-----|-----|

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not received when "Organ Control - Status" RX is Off.

● **LOWER TW 2' (Controller number 75)**

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
|--------|----------|----------|

| | | |
|-----|-----|-----|
| BnH | 4BH | vvH |
|-----|-----|-----|

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not received when "Organ Control - Status" RX is Off.

● **LOWER TW 1 3/5' (Controller number 76)**

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
|--------|----------|----------|

| | | |
|-----|-----|-----|
| BnH | 4CH | vvH |
|-----|-----|-----|

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not received when "Organ Control - Status" RX is Off.

● LOWER TW 1 1/3' (Controller number 77)

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
| BnH | 4DH | vvH |

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not received when "Organ Control - Status" RX is Off.

LOWER TW 1' (Controller number 78)

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
| BnH | 4EH | vvH |

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not received when "Organ Control - Status" RX is Off.

PEDAL TW 16' (Controller number 14)

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
| BnH | 0EH | vvH |

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not received when "Organ Control - Status" RX is Off.

PEDAL TW 5 1/3'(Controller number 15)

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
| BnH | 0FH | vvH |

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not received when "Organ Control - Status" RX is Off.

PEDAL TW 8' (Controller number 25)

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
| BnH | 19H | vvH |

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not received when "Organ Control - Status" RX is Off.

PEDAL TW 4'(Controller number 26)

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
| BnH | 1AH | vvH |

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not received when "Organ Control - Status" RX is Off.

● PEDAL TW 2 2/3' (Controller number 27)

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
| BnH | 1BH | vvH |

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not received when "Organ Control - Status" RX is Off.

● PEDAL TW 2' (Controller number 28)

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
| BnH | 1CH | vvH |

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not received when "Organ Control - Status" RX is Off.

● PEDAL TW 1 3/5' (Controller number 29)

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
| BnH | 1DH | vvH |

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not received when "Organ Control - Status" RX is Off.

● PEDAL TW 1 1/3' (Controller number 30)

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
| BnH | 1EH | vvH |

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not received when "Organ Control - Status" RX is Off.

● PEDAL TW 1' (Controller number 31)

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
| BnH | 1FH | vvH |

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not received when "Organ Control - Status" RX is Off.

● TW Percussion ON/OFF (Controller number 87)

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
| BnH | 57H | vvH |

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

00H = Off, 7FH = On

- Not received when "Organ Control - Status" RX is Off.

● **TW Percussion NORMAL/SOFT (Controller number 88)**

Status 2nd byte 3rd byte

BnH 58H vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

00H = Normal, 7FH = Soft

- *Not received when "Organ Control - Status" RX is Off.*

● **TW Percussion Time SLOW/FAST (Controller number 89)**

Status 2nd byte 3rd byte

BnH 59H vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

00H = Slow, 7FH = Fast

- *Not received when "Organ Control - Status" RX is Off.*

● **TW Percussion Harmonic 2nd/3rd (Controller number 95)**

Status 2nd byte 3rd byte

BnH 5FH vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

00H = 2nd, 7FH = 3rd

- *Not received when "Organ Control - Status" RX is Off.*

● **TW Vibrato Mode (Controller number 84)**

Status 2nd byte 3rd byte

BnH 54H vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

00H = 2nd, 7FH = 3rd

- *Not received when "Organ Control - Status" RX is Off.*

● **TW Vibrato On/Off (Controller number 69)**

Status 2nd byte 3rd byte

BnH 45H vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

00H = 2nd, 7FH = 3rd

- *Not received when "Organ Control - Status" RX is Off.*

● **TW Rotary On/Off (Controller number 80)**

Status 2nd byte 3rd byte

BnH 50H vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

00H = 2nd, 7FH = 3rd

- *Not received when "Organ Control - Status" RX is Off.*

● **TW Rotary Brake On/Off (Controller number 81)**

Status 2nd byte 3rd byte

BnH 51H vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

00H = 2nd, 7FH = 3rd

- *Not received when "Organ Control - Status" RX is Off.*

TW Rotary Slow/Fast (Controller number 82)

Status 2nd byte 3rd byte

BnH 52H vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

00H = 2nd, 7FH = 3rd

- *Not received when "Organ Control - Status" RX is Off.*

● **TW Overdrive On/Off (Controller number 83)**

Status 2nd byte 3rd byte

BnH 53H vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

00H = 2nd, 7FH = 3rd

- *Not received when "Organ Control - Status" RX is Off.*

● **TW Overdrive Level (Controller number 90)**

Status 2nd byte 3rd byte

BnH 5AH vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

00H = 2nd, 7FH = 3rd

- *Not received when "Organ Control - Status" RX is Off.*

● **TW Overdrive Drive (Controller number 92)**

Status 2nd byte 3rd byte

BnH 5CH vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

00H = 2nd, 7FH = 3rd

- *Not received when "Organ Control - Status" RX is Off.*

● **TW Overdrive Tone (Controller number 94)**

Status 2nd byte 3rd byte

BnH 5EH vvH

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

00H = 2nd, 7FH = 3rd

- *Not received when "Organ Control - Status" RX is Off.*

2. Transmitted data

■ Channel Voice Messages

● Note off

| Status | 2nd byte | 3rd byte |
|--------|----------|----------|
| 8nH | kkH | ccH |

n = MIDI channel number: 0H~FH (Ch.1~16)

kk = note number: 00H~7FH (0~127)

cc = note off velocity: 00H~7FH (0~127)

● Note on

| Status | 2nd byte | 3rd byte |
|--------|----------|----------|
| 9nH | kkH | vvH |

n = MIDI channel number: 0H~FH (Ch.1~16)

kk = note number: 00H~7FH (0~127)

vv = note off velocity: 00H~7FH (0~127)

■ Control Change

● Bank Select (Controller number 0, 32)

| Status | 2nd byte | 3rd byte |
|--------|----------|----------|
| BnH | 00H | mmH |
| BnH | 20H | llH |

n = MIDI channel number: 0H~FH (Ch.1~16)

mm = Bank number MSB: 00H~7FH

ll = Bank number LSB: 00H~7FH

• Not transmitted when "PG" Tx is Off.

● Modulation (Controller number 1)

| Status | 2nd byte | 3rd byte |
|--------|----------|----------|
| BnH | 01H | vvH |

n = MIDI channel number: 0H~FH (Ch.1~16)

vv = Modulation depth: 00H~7FH (0~127)

• Not transmitted when "Modulation" TX is OFF.

● Volume (Controller number 7)

| Status | 2nd byte | 3rd byte |
|--------|----------|----------|
| BnH | 07H | vvH |

n = MIDI channel number 0H~FH (Ch.1~16)

vv = Volume: 00H~7FH (0~127), Initial value= 64H (100)

• Not transmitted when "Volume" TX is off.

● Pan (Controller number 10)

| Status | 2nd byte | 3rd byte |
|--------|----------|----------|
| BnH | 0AH | vvH |

n = MIDI channel number: 0H~FH (Ch.1~16)

vv = pan: 00H~40H~7FH (Left~Center~Right),

• Not transmitted when "PanPot" TX is Off

● Expression (Controller number 11)

| Status | 2nd byte | 3rd byte |
|--------|----------|----------|
| BnH | 0BH | vvH |

n = MIDI channel number: 0H~FH (Ch.1~16)

vv = Expression: 00H~7FH (0~127), Initial value= 7FH (127)

• This adjusts the volume of a Part. It can be used independently from Volume messages. Expression messages are used for musical expression within a performance, e.g., expression pedal movements, crescendo and decrescendo.

• Not transmitted when "Expression" TX is Off.

● Hold (Controller number 64)

| Status | 2nd byte | 3rd byte |
|--------|----------|----------|
| BnH | 40H | vvH |

n = MIDI channel number: 0H~FH (Ch.1~16)

vv = Control value: 00H~7FH (0~127)

• Not transmitted when "Hold" TX is Off.

● Sostenuto (Controller number 66)

| Status | 2nd byte | 3rd byte |
|--------|----------|----------|
| BnH | 42H | vvH |

n = MIDI channel number: 0H~FH (Ch.1~16)

vv = Control value: 00H~7FH (0~127) 0~63= OFF, 64~127= ON

• Not transmitted when "Sostenuto" TX is Off.

● Soft (Controller number 67)

| Status | 2nd byte | 3rd byte |
|--------|----------|----------|
| BnH | 43H | vvH |

n = MIDI channel number: 0H~FH (Ch.1~16)

vv = Control value: 00H~7FH (0~127) 0~63= OFF, 64~127= ON

• Not transmitted when "Soft" TX is Off.

● Reverb Send Level (Controller number 91)

| Status | 2nd byte | 3rd byte |
|--------|----------|----------|
| BnH | 5BH | vvH |

n = MIDI channel number: 0H~FH (Ch.1~16)

vv = Reverb Send Level: 00H~7FH (0~127)

• This message adjusts the Reverb Send Level of each Part.

• Not transmitted when "Reverb" TX is Off.

● Program Change

| Status | 2nd byte |
|--------|----------|
| CnH | ppH |

n = MIDI channel number: 0H~FH (Ch.1~16)

pp = Program number: 00H~7FH (prog.1~prog.128)

• Not transmitted when "PG" TX is Off.

● Pitch Bend Change

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
| EnH | llH | mmH |

n = MIDI channel number: 0H~FH (Ch.1~16)

mm, ll = Pitch Bend value: 00 00H~40 00H~7F 7FH (-8192~0~+8191)

- Not transmitted when "PB" TX is Off.

● AFTERTOUCHE (Channel Pressure)

| | |
|--------|----------|
| Status | 2nd byte |
| DnH | vvH |

n = MIDI channel number: 0H~FH (Ch.1~16)

vv = value: 00H~7FH (0~127)

- Not transmitted when "Aftertouch" TX is Off.
- The Aftertouch will affect to all notes playing in that channel.

■ TONE WHEEL MIDI Messages

● MAIN TW 16' (Controller number 16)

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
| BnH | 10H | vvH |

n = MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv = Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not transmitted when "Organ Control - Status" TX is Off.

● MAIN TW 5 1/3' (Controller number 17)

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
| BnH | 11H | vvH |

n = MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv = Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not transmitted when "Organ Control - Status" TX is Off.

● MAIN TW 8' (Controller number 18)

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
| BnH | 12H | vvH |

n = MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv = Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not transmitted when "Organ Control - Status" TX is Off.

● MAIN TW 4' (Controller number 19)

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
| BnH | 13H | vvH |

n = MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv = Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not transmitted when "Organ Control - Status" TX is Off.

● MAIN TW 2 2/3' (Controller number 20)

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
| BnH | 14H | vvH |

n = MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv = Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not transmitted when "Organ Control - Status" TX is Off.

● MAIN TW 2' (Controller number 21)

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
| BnH | 15H | vvH |

n = MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv = Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not transmitted when "Organ Control - Status" TX is Off.

● MAIN TW 1 3/5' (Controller number 22)

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
| BnH | 16H | vvH |

n = MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv = Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not transmitted when "Organ Control - Status" TX is Off.

● MAIN TW 1 1/3' (Controller number 23)

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
| BnH | 17H | vvH |

n = MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv = Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not transmitted when "Organ Control - Status" TX is Off.

● MAIN TW 1' (Controller number 24)

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
| BnH | 18H | vvH |

n = MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv = Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not transmitted when "Organ Control - Status" TX is Off.

● LOWER TW 16' (Controller number 70)

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
| BnH | 46H | vvH |

n = MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv = Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not transmitted when "Organ Control - Status" TX is Off.

● **LOWER TW 5 1/3' (Controller number 71)**

| Status | 2nd byte | 3rd byte |
|--------|----------|----------|
| BnH | 47H | vvH |

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not transmitted when "Organ Control - Status" TX is Off.

● **LOWER TW 8' (Controller number 72)**

| Status | 2nd byte | 3rd byte |
|--------|----------|----------|
| BnH | 48H | vvH |

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not transmitted when "Organ Control - Status" TX is Off.

● **LOWER TW 4' (Controller number 73)**

| Status | 2nd byte | 3rd byte |
|--------|----------|----------|
| BnH | 49H | vvH |

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not transmitted when "Organ Control - Status" TX is Off.

● **LOWER TW 2 2/3' (Controller number 74)**

| Status | 2nd byte | 3rd byte |
|--------|----------|----------|
| BnH | 4AH | vvH |

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not transmitted when "Organ Control - Status" TX is Off.

● **LOWER TW 2' (Controller number 75)**

| Status | 2nd byte | 3rd byte |
|--------|----------|----------|
| BnH | 4BH | vvH |

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not transmitted when "Organ Control - Status" TX is Off.

● **LOWER TW 1 3/5' (Controller number 76)**

| Status | 2nd byte | 3rd byte |
|--------|----------|----------|
| BnH | 4CH | vvH |

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not transmitted when "Organ Control - Status" TX is Off.

● **LOWER TW 1 1/3' (Controller number 77)**

| Status | 2nd byte | 3rd byte |
|--------|----------|----------|
| BnH | 4DH | vvH |

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not transmitted when "Organ Control - Status" TX is Off.

● **LOWER TW 1' (Controller number 78)**

| Status | 2nd byte | 3rd byte |
|--------|----------|----------|
| BnH | 4EH | vvH |

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not transmitted when "Organ Control - Status" TX is Off.

● **PEDAL TW 16' (Controller number 14)**

| Status | 2nd byte | 3rd byte |
|--------|----------|----------|
| BnH | 0EH | vvH |

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not transmitted when "Organ Control - Status" TX is Off.

● **PEDAL TW 5 1/3' (Controller number 15)**

| Status | 2nd byte | 3rd byte |
|--------|----------|----------|
| BnH | 0FH | vvH |

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not transmitted when "Organ Control - Status" TX is Off.

● **PEDAL TW 8' (Controller number 25)**

| Status | 2nd byte | 3rd byte |
|--------|----------|----------|
| BnH | 19H | vvH |

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not transmitted when "Organ Control - Status" TX is Off.

● **PEDAL TW 4' (Controller number 26)**

| Status | 2nd byte | 3rd byte |
|--------|----------|----------|
| BnH | 1AH | vvH |

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not transmitted when "Organ Control - Status" TX is Off.

● **PEDAL TW 2 2/3' (Controller number 27)**

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
| BnH | 1BH | vvH |

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not transmitted when "Organ Control - Status" TX is Off.

● **PEDAL TW 2' (Controller number 28)**

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
| BnH | 1CH | vvH |

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not transmitted when "Organ Control - Status" TX is Off.

● **PEDAL TW 1 3/5' (Controller number 29)**

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
| BnH | 1DH | vvH |

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not transmitted when "Organ Control - Status" TX is Off.

● **PEDAL TW 1 1/3' (Controller number 30)**

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
| BnH | 1EH | vvH |

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not transmitted when "Organ Control - Status" TX is Off.

● **PEDAL TW 1' (Controller number 31)**

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
| BnH | 1FH | vvH |

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

0H = 0, 10H = 1, 20H = 2, 30H = 3, 40H = 4, 50H = 5, 60H = 7, 70H = 7, 7FH = 8

- Not transmitted when "Organ Control - Status" TX is Off.

● **TW Percussion ON/OFF (Controller number 87)**

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
| BnH | 57H | vvH |

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H-7FH (0-127)

00H = Off, 7FH = On

- Not received when "Organ Control - Status" RX is Off.

● **TW Percussion NORMAL/SOFT (Controller number 88)**

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
| BnH | 58H | vvH |

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

00H = Normal, 7FH = Soft

- Not received when "Organ Control - Status" RX is Off.

● **TW Percussion Time SLOW/FAST (Controller number 89)**

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
| BnH | 59H | vvH |

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

00H = Slow, 7FH = Fast

- Not received when "Organ Control - Status" RX is Off.

● **TW Percussion Harmonic 2nd/3rd (Controller number 95)**

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
| BnH | 5FH | vvH |

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

00H = 2nd, 7FH = 3rd

- Not transmitted when "Organ Control - Status" TX is Off.

● **TW Rotary On/Off (Controller number 80)**

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
| BnH | 50H | vvH |

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

00H = 2nd, 7FH = 3rd

- Not transmitted when "Organ Control - Status" TX is Off.

● **TW Rotary Slow/Fast (Controller number 82)**

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
| BnH | 52H | vvH |

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

00H = 2nd, 7FH = 3rd

- Not transmitted when "Organ Control - Status" TX is Off.

● **TW Rotary Brake On/Off (Controller number 81)**

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
| BnH | 51H | vvH |

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

00H = 2nd, 7FH = 3rd

- Not transmitted when "Organ Control - Status" TX is Off.

● TW Vibrato Mode (Controller number 84)

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
| BnH | 54H | vvH |

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

00H = 2nd, 7FH = 3rd

- Not transmitted when "Organ Control - Status" TX is Off.

● TW Vibrato On/Off (Controller number 69)

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
| BnH | 45H | vvH |

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

00H = 2nd, 7FH = 3rd

- Not transmitted when "Organ Control - Status" TX is Off.

● TW Overdrive On/Off (Controller number 83)

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
| BnH | 53H | vvH |

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

00H = 2nd, 7FH = 3rd

- Not transmitted when "Organ Control - Status" TX is Off.

● TW Overdrive Drive (Controller number 92)

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
| BnH | 5CH | vvH |

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

00H = 2nd, 7FH = 3rd

- Not transmitted when "Organ Control - Status" TX is Off.

● TW Overdrive Level (Controller number 90)

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
| BnH | 5AH | vvH |

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

00H = 2nd, 7FH = 3rd

- Not transmitted when "Organ Control - Status" TX is Off.

● TW Overdrive Tone (Controller number 94)

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
| BnH | 5EH | vvH |

n= MIDI channel number: 0H~FH (Ch.1~16); default midi ch.14

vv= Control value: 00H~7FH (0~127)

00H = 2nd, 7FH = 3rd

- Not transmitted when "Organ Control - Status" TX is Off.

■ System Realtime Messages

● Active Sensing

Status

FEH

- This message is transmitted at intervals of approximately 250 ms.

- Not transmitted when "Active sensing" is Off.

■ Memory TX

| Midi Message | Value | Memory |
|--------------|-------|---------------------------|
| CC00 | 0~9 | BANK : 1,2,3,4,5,6,7,8,9 |
| PG | 0~9 | NUMBER: 1,2,3,4,5,6,7,8,9 |

- Default MIDI channel is 15

- Not transmitted when "Memory TX Status" is Off.

■ MIDI CONTROLLERS

● Midi Controllers S1~S9 (assignable from CC1 to CC127)

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
|--------|----------|----------|

| | | |
|-----|---------|-----|
| BnH | 01H~7FH | vvH |
|-----|---------|-----|

n= MIDI channel number 0H~FH (Ch.1~16)

vv= Control Value: 00H~7FH (0~127),

- Not transmitted when "Midi Control" button is off.

- Each midi controller is assignable from CC1 to CC127

● Midi Controllers C1~C6 (assignable from CC1 to CC127)

| | | |
|--------|----------|----------|
| Status | 2nd byte | 3rd byte |
|--------|----------|----------|

| | | |
|-----|---------|-----|
| BnH | 01H~7FH | vvH |
|-----|---------|-----|

n= MIDI channel number 0H~FH (Ch.1~16)

vv= Control Value: 00H~7FH (0~127),

- Not transmitted when "C1~C6 to MIDI" button is off.

- Each midi controller is assignable from CC1 to CC127