Bass POD Midi / Sysex Specification and Notes

Revision history:
• 9/29/00 Document Born
• 10/11/00 Patch Dump Description added

SYSTEM EXCLUSIVE FORMAT:

Bass POD s System Exclusive message format is as follows:

F0 00 01 0C Line 6 (Fast Forward) Manufacturer ID
02 Bass POD Family ID
xx Opcode
yy Data
F7 EOX

UNIVERSAL DEVICE INQUIRY:

Bass POD will respond to the universal system inquiry command if the channel received is the same as Bass POD s MIDI channel, the channel received is 7F (all channels), or Bass POD is set to omni mode. The received message is in the following format:

F0 7E <chan> 06 01 F7 System inquiry message

If <chan> = 7F (Universal All Device Call) Bass POD will respond with the channel also set to 7F.

Bass POD s reply to Universal Device Inquiry

F0 7E <chan> 06 02 Universal Device Inquiry Response
00 01 0C Line 6 (Fast Forward) Manufacturer ID
02 00 0x0200 = Bass POD Product Family ID (LSB first)
00 00 0x0000 = Bass POD Product Family Member (LSB first)
xx xx xx xx Software revision, ASCI (ex. 30 31 30 30 = ’0100’ = 1.00)
F7 EOX

DATA DUMP FORMAT:

Bass POD sends and receives Program and Global dump data in High-Low Nibbilized format. Data Locations in the dump are described later in this document with reference to ONE Bass POD Byte.

ONE POD BYTE (8 bits):
0: A7 A6 A5 A4 A3 A2 A1 A0

TRANSMITTED and RECEIVED AS:
0: 00 00 00 00 A7 A6 A5 A4
1: 00 00 00 00 A3 A2 A1 A0
SYSTEM EXCLUSIVE OPCODES:

00 SYSEX DATA DUMP REQUEST:

Type:

00: Program Patch Dump Request
0xF0 0x00 0x01 0x0C 0x02 0x00 <program #> 0xF7
<program #> = 0x00 ~ 0x23 (1A ~ 9D internal programs)
Bass POD responds with Program Dump (01 00)

01: Program Edit Buffer Dump Request
0xF0 0x00 0x01 0x0C 0x02 0x01 0xF7
Bass POD responds with Program Edit Buffer Dump (01 01)

02: All Programs Dump Request
0xF0 0x00 0x01 0x0C 0x02 0x00 0x00 0x02 0xF7
Bass POD responds by sending an All Program Dump (01 02)

01 SYSEX DATA DUMP:

Type:

00: Program Patch Dump
0xF0 0x00 0x01 0x0C 0x02 0x01 0x00 <program #> <version> <data> 0xF7
<program #> = 0x00 ~ 0x23 (1A ~ 9D internal programs)
<version> = 0x00 ~ 0x7F
<data> = 160 bytes nibbilized (80 actual data bytes)

01: Program Edit Buffer Dump
0xF0 0x00 0x01 0x0C 0x02 0x01 <<version> data> 0xF7
<version> = 0x00 ~ 0x7F
<data> = 1 Program = 160 bytes nibbilized (80 actual data bytes)

02: All Programs Dump
0xF0 0x00 0x01 0x0C 0x02 0x01 <version> <data> 0xF7
<version> = 0x00 ~ 0x7F
<data> = All Programs = 5760 bytes nibbilized (2880 actual data bytes)
### VERSION DATA:

| Dump Version | 1 |

**Note:** The data format version number of the data dump must match what the software of the Bass Pod expects. If there is a mismatch the Bass Pod will not update the patch. Also note that the dump version and the Bass Pod software version are NOT the same things.

### PROGRAM DATA:

<table>
<thead>
<tr>
<th>Bass Pod Parameters</th>
<th>Notes / Internal Bass Pod Value</th>
<th>Cntr Ir #</th>
<th>Bass Pod Data Structure</th>
<th>Transmitted MIDI Range</th>
<th>Received MIDI Range</th>
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<tbody>
<tr>
<td>Programs</td>
<td>1 A,B,C,D - 9 A, B, C, D</td>
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<td></td>
<td>0=Manual, 1-36=Programs, Tuner=37</td>
<td>0=Manual, 1-36=Programs, Tuner=37</td>
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<td>MIDI Channel</td>
<td>0-15</td>
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<tr>
<td>Bright Enable</td>
<td>Fixed</td>
<td></td>
<td></td>
<td>NO TRANSMIT</td>
<td>Don’t care – internal use only</td>
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<tr>
<td>Apply FX to D.I. Button</td>
<td>On/Off</td>
<td>64</td>
<td></td>
<td>0=Off; 127=On</td>
<td>0-63=OFF, 64-127=ON</td>
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<tr>
<td><strong>Controls</strong></td>
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<td>Amp Model</td>
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<td>0-15</td>
<td>0=Tube Preamp, 1-15=Amps</td>
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<td>Drive</td>
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<td>13</td>
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<td>Compress (internally scales threshold and level)</td>
<td>0-63</td>
<td>18</td>
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<td>Effect Select Knob</td>
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<td>19</td>
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<td>0-15</td>
<td>0 – 15</td>
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<td><strong>Alternate Controls</strong></td>
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<td>Parametric Fc</td>
<td>30Hz – 8kHz / 0-63</td>
<td>25</td>
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<td>0-127 (Turn Bass with Cabs &amp; EQ on)</td>
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<tr>
<td>Parametric Q</td>
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<td>0-127 (Turn Mid with Cabs &amp; EQ on)</td>
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<tr>
<td>Feature</td>
<td>Setting</td>
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<td>Parametric Gain</td>
<td>Infinite cut - +12dB / 0-63</td>
<td>27</td>
<td>15</td>
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<tr>
<td>FX Lo-Cut</td>
<td>Off – 1kHz / 0-63</td>
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<td>51</td>
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<td>5</td>
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<tr>
<td>Noise Gate On/Off</td>
<td>On/Off</td>
<td>22</td>
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<td>1</td>
<td>0</td>
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<tr>
<td>Amp Model Mid Sweep (select models)</td>
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<td>12</td>
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<td>Cabinet Type</td>
<td>0-15 (0 = no cab)</td>
<td>71</td>
<td>31</td>
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<td>Noise Gate Threshold</td>
<td>6dB-96dB / 0-96</td>
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<td>Noise Gate Decay</td>
<td>8.1-159.2ms / 0-63</td>
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<td>Compressor Parameters</td>
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<td>Compression Ratio</td>
<td>2:1, 3:3:1, 8:1, 12:1, Inf:1 / 0-127</td>
<td>42</td>
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<td>Cabinet Parameters</td>
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<td>AIR Level</td>
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<td>Wah Pedal Parameters</td>
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<td>Wah Wah Pedal On/Off</td>
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<td>Wah Bottom Frequency</td>
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<td>Wah Top Frequency</td>
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<td>Volume Pedal Parameters</td>
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</tbody>
</table>

- |
The FX parameters occupy common space, usage is dependent upon Effects Select. The UNION size is the size of the largest FX (7 bytes). Unused bytes in the UNION are Don't Cares - always send a value.

### Volume Pedal
- **0-127**
- **7 22 7 6 0**
- **0-127**
- **0-63=OFF, 64-127=ON**

### Volume Pedal Minimum
- **0-127**
- **46 23 7 6 0**
- **0-127**
- **0-127**

### Volume Pedal Location
- **Pre Tube Drive / Post Tube Drive**
- **47 24 1 0 0**
- **NO TRANSMIT**
- **0-63-BEFORE TUBE, 64-127=AFTER TUBE**

### Effects
- **Effect On/Off**
- **60 52 1 0 0**
- **FB SWITCH**
- **ON=127/OFF=0**
- **0-63=OFF, 64-127=ON**

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### Octave Down (Boss OC-2)
- **Mix**
- **0-63 29 53 6 5 0**
- **NO TRANSMIT**
- **0-127**

### Analog Chorus (Boss CE-1 from MM4)
- **Speed**
- **0-63 30 53 6 5 0**
- **NO TRANSMIT**
- **0-127**
- **Depth**
- **0-63 31 54 6 5 0**
- **NO TRANSMIT**
- **0-127**

### Danish Chorus (t.c. Stereo Chorus)
- **Speed**
- **0-63 32 54 6 5 0**
- **NO TRANSMIT**
- **0-127**
- **Intensity**
- **0-63 33 55 6 5 0**
- **NO TRANSMIT**
- **0-127**
- **Width**
- **0-63 34 53 6 5 0**
- **NO TRANSMIT**
- **0-127**

### Orange Phase (Phase 90)
- **Speed**
- **0-63 35 53 6 5 0**
- **NO TRANSMIT**
- **0-127**

### Gray Flanger (MXR Flanger)
- **Width**
- **0-63 36 55 6 5 0**
- **NO TRANSMIT**
- **0-127**
- **Speed**
- **0-63 37 53 6 5 0**
- **NO TRANSMIT**
- **0-127**
- **Regen**
- **0-63 38 54 6 5 0**
- **NO TRANSMIT**
- **0-127**

### Tron Down (Mu-Tron III)
- **Peak**
- **0-63 39 53 6 5 0**
- **NO TRANSMIT**
- **0-127**

### Tron Up (Mu-Tron III)
- **Peak**
- **0-63 40 53 6 5 0**
- **NO TRANSMIT**
- **0-127**

### S/H (Oberheim VCF)
| Feature                        | Range | Value 1 | Value 2 | Value 3 | Value 4 | Value 5 | Value 6 | Value 7 | Value 8 | Value 9 | Value 10 | Value 11 | Value 12 | Value 13 | Value 14 | Value 15 | Value 16 |
|-------------------------------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|
| **Speed**                     | 0-63  | 41      | 53      | 6       | 5       | 0       |         |         |         |         |          |          |          |          |          |          |          |
| **Bass Synth (Boss SYB-3)**   |       |         |         |         |         |         |         |         |         |         |          |          |          |          |          |          |          |
| Dry Level                    | 0-63  | 48      | 54      | 6       | 5       | 0       |         |         |         |         |          |          |          |          |          |          |          |
| Low Pass Level               | 0-63  | 49      | 55      | 6       | 5       | 0       |         |         |         |         |          |          |          |          |          |          |          |
| High Pass Level              | 0-63  | 50      | 56      | 6       | 5       | 0       |         |         |         |         |          |          |          |          |          |          |          |
| Decay                        | 0-63  | 52      | 53      | 6       | 5       | 0       |         |         |         |         |          |          |          |          |          |          |          |
| **Danish Driver (t.c. Line Driver)** |       |         |         |         |         |         |         |         |         |         |          |          |          |          |          |          |          |
| Distortion                   | 0-127 | 55      | 53      | 7       | 6       | 0       |         |         |         |         |          |          |          |          |          |          |          |
| **Large Pie (Big Muff)**     |       |         |         |         |         |         |         |         |         |         |          |          |          |          |          |          |          |
| Distortion                   | 0-127 | 56      | 53      | 7       | 6       | 0       |         |         |         |         |          |          |          |          |          |          |          |
| **Pig Foot (hog’s foot)**    |       |         |         |         |         |         |         |         |         |         |          |          |          |          |          |          |          |
| Distortion                   | 0-127 | 57      | 53      | 7       | 6       | 0       |         |         |         |         |          |          |          |          |          |          |          |
| **Rodent (Rat)**             |       |         |         |         |         |         |         |         |         |         |          |          |          |          |          |          |          |
| Distortion                   | 0-127 | 58      | 53      | 7       | 6       | 0       |         |         |         |         |          |          |          |          |          |          |          |
| Distortion                   | 0-63  | 59      | 54      | 6       | 5       | 0       |         |         |         |         |          |          |          |          |          |          |          |

**Patch Name**

| Character 1 | 64 | 7 | 6 | 0 | ASCII | ASCII |
| Character 2 | 65 | 7 | 6 | 0 | ASCII | ASCII |
| Character 3 | 66 | 7 | 6 | 0 | ASCII | ASCII |
| Character 4 | 67 | 7 | 6 | 0 | ASCII | ASCII |
| Character 5 | 68 | 7 | 6 | 0 | ASCII | ASCII |
| Character 6 | 69 | 7 | 6 | 0 | ASCII | ASCII |
| Character 7 | 70 | 7 | 6 | 0 | ASCII | ASCII |
| Character 8 | 71 | 7 | 6 | 0 | ASCII | ASCII |
| Character 9 | 72 | 7 | 6 | 0 | ASCII | ASCII |
| Character 10| 73 | 7 | 6 | 0 | ASCII | ASCII |
| Character 11| 74 | 7 | 6 | 0 | ASCII | ASCII |
| Character 12| 75 | 7 | 6 | 0 | ASCII | ASCII |
| Character 13| 76 | 7 | 6 | 0 | ASCII | ASCII |
| Character 14| 77 | 7 | 6 | 0 | ASCII | ASCII |
| Character 15| 78 | 7 | 6 | 0 | ASCII | ASCII |
| Character 16| 79 | 7 | 6 | 0 | ASCII | ASCII |

**Reserved Bytes**

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NO TRANSMIT 0-127
EFFECT TYPE PARAMETER TABLE:

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<th>FX#</th>
<th>Effect</th>
<th>Bass Pod Internal Value</th>
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<tbody>
<tr>
<td>1</td>
<td>Octave Down</td>
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<td>2</td>
<td>Analog Chorus</td>
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<tr>
<td>3</td>
<td>Danish Chorus</td>
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<td>4</td>
<td>Orange Phase</td>
<td>0</td>
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<td>5</td>
<td>Gray Flanger</td>
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<td>6</td>
<td>Tron Down</td>
<td>3</td>
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<td>7</td>
<td>Tron Up</td>
<td>2</td>
</tr>
<tr>
<td>8</td>
<td>Sample and Hold</td>
<td>6</td>
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<tr>
<td>9</td>
<td>S/H + Flanger</td>
<td>7</td>
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<tr>
<td>10</td>
<td>S/H + Driver</td>
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<td>11</td>
<td>Bass Synth</td>
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<td>Danish Driver</td>
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<td>13</td>
<td>Large Pie</td>
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<tr>
<td>14</td>
<td>Pig Foot</td>
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<td>15</td>
<td>Rodent</td>
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AMP MODEL TYPE PARAMETER TABLE:

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<th>Amp Model</th>
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<td>3</td>
<td>Jazz Tone</td>
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<tr>
<td>4</td>
<td>Adam &amp; Eve</td>
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<td>5</td>
<td>Eighties</td>
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<td>Stadium</td>
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<td>Amp 360</td>
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<td>Cab#</td>
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<td>SWR Goliath 4x10</td>
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<tr>
<td>2</td>
<td>Mesa/Boogie 2x15 (front loaded and front ported)</td>
<td>5</td>
</tr>
<tr>
<td>3</td>
<td>Polytone 1x15 closed back combo</td>
<td>6</td>
</tr>
<tr>
<td>4</td>
<td>Eden David 4x10</td>
<td>9</td>
</tr>
<tr>
<td>5</td>
<td>Hartke 4x10</td>
<td>0</td>
</tr>
<tr>
<td>6</td>
<td>Sunn Coliseum 8028 1x18 + 1x12</td>
<td>14</td>
</tr>
<tr>
<td>7</td>
<td>Acoustic 360</td>
<td>15</td>
</tr>
<tr>
<td>8</td>
<td>1979 Ampeg SVT 8x10</td>
<td>11</td>
</tr>
<tr>
<td>9</td>
<td>1969 Marshall Major 4x15</td>
<td>12</td>
</tr>
<tr>
<td>10</td>
<td>1968 Marshall 4x12 with pre-Rola 25 s</td>
<td>3</td>
</tr>
<tr>
<td>11</td>
<td>Fender Bassman 2x15 with JBL s</td>
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</tr>
<tr>
<td>12</td>
<td>Vox AC-100 2x15</td>
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</tr>
<tr>
<td>13</td>
<td>60 s Versatone Pan-O-Flex 1x12</td>
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</tr>
<tr>
<td>14</td>
<td>Ampeg B-15 1/15 closed back combo</td>
<td>2</td>
</tr>
<tr>
<td>15</td>
<td>SWR 1x18</td>
<td>13</td>
</tr>
<tr>
<td>16</td>
<td>No Cabinet</td>
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CABINET TYPE PARAMETER TABLE: