

## Appendix D

### Effects Algorithms

The following table shows the effects algorithms accessible on the PC88 either with or without the VGM board installed. If the VGM board is installed, two different effects—Internal and VGM—can be used simultaneously.

Algorithms are chosen by sending a specific MIDI Controller message. The value (second data byte) of the controller calls up the algorithm as listed in this table.

To select the Algorithm for the Internal effects, use Controller 83 (53H), followed by the value in the table. Example: If you want to have a Bright Hall reverb with no other effect, send Controller 83 with a value of 77 (4DH).

To select the Algorithm for the effects on the VGM, use Controller 90 (5AH), followed by the value in the table. For example, if you want to have a Normal Room reverb with Chorus 1, send Controller 90 with a value of 86 (56H).

Value (decimal)	Reverb Size	Reverb Tone	Effect
65	None	Bright	None
66	None	Bright	Chorus 1
67	None	Bright	Chorus 2
68	None	Bright	Delay
69	Room	Bright	None
70	Room	Bright	Chorus 1
71	Room	Bright	Chorus 2
72	Room	Bright	Delay
73	Stage	Bright	None
74	Stage	Bright	Chorus 1
75	Stage	Bright	Chorus 2
76	Stage	Bright	Delay
77	Hall	Bright	None
78	Hall	Bright	Chorus 1
79	Hall	Bright	Chorus 2
80	Hall	Bright	Delay
81	None	Normal	None
82	None	Normal	Chorus 1
83	None	Normal	Chorus 2
84	None	Normal	Delay

Value (decimal)	Reverb Size	Reverb Tone	Effect
85	Room	Normal	None
86	Room	Normal	Chorus 1
87	Room	Normal	Chorus 2
88	Room	Normal	Delay
89	Stage	Normal	None
90	Stage	Normal	Chorus 1
91	Stage	Normal	Chorus 2
92	Stage	Normal	Delay
93	Hall	Normal	None
94	Hall	Normal	Chorus 1
95	Hall	Normal	Chorus 2
96	Hall	Normal	Delay
97	None	Warm	None
98	None	Warm	Chorus 1
99	None	Warm	Chorus 2
100	None	Warm	Delay
101	Room	Warm	None
102	Room	Warm	Chorus 1
103	Room	Warm	Chorus 2
104	Room	Warm	Delay
105	Stage	Warm	None
106	Stage	Warm	Chorus 1
107	Stage	Warm	Chorus 2
108	Stage	Warm	Delay
109	Hall	Warm	None
110	Hall	Warm	Chorus 1
111	Hall	Warm	Chorus 2
112	Hall	Warm	Delay

You can also change the wet/dry mix of both the reverb and the effects on the Internal and the VGM sounds. The following controllers are used (higher values=wetter).

Internal Reverb: Controller 91 (5BH)  
VGM Reverb: Controller 92 (5CH)  
Internal Effects : Controller 93 (5DH)  
VGM Effects: Controller 94 (5EH)