



Bachmann Spectrum HO 50-Ton Climax (DCC Equipped)

Whistle Selections:

Southern 3-Chime (default)	0
B&O 3-Chime	1
Crosby 3-Chime	2

Exhaust Chuff: Medium Steam

Air Compressor: Cross Compound

Please note the CVs listed in bold are only active if the Tsunami 50-Ton Climax HO Plug-and-Play Sound Module (sold separately) is plugged into the model's DCC decoder. For more information about the plug-in sound module, please refer to bachmanntrains.com.

Configuration Variable Defaults

1	Primary Address	3	112	Sound Configuration	0
2	V Start	0	113	Quiet Mode Timeout	0
3	Baseline Acceleration Rate	6	114	Bell Ring Rate	7
4	Baseline Deceleration Rate	5	115	Whistle Selection	0
7	Manufacturer Version ID	Read Only	116	Exhaust Control/Chuff Rate	145
8	Manufacturer ID	141	128	Master Volume Control	245
10	BEMF Cutout	0	129	Whistle Volume Control	255
11	Packet Time-Out Value	0	130	Bell Volume Control	110
12	Power Source Conversion	1	131	Exhaust Volume Control	180
13	Analog Mode Function (F1-F8)	0	132	Air Compressor Volume	0
14	Analog Mode Function (F0, F9-F12)	3	133	Dynamo Volume Control	50
15	CV Unlock Code	0	134	Blower Volume	16
16	CV Lock Code	0	135	Rod Clank Volume Control	32
17	Extended Address	192	136	Steam Release Volume Control	80
18	Extended Address	3	137	Coupler Volume Control	128
19	Consist Address	0	138	Reserved	0
21	Consist Function (F1-F8)	0	139	Brake Squeal Volume	55
22	Consist Function (F0, F9-F12)	0	140	Brake Release Volume	64
23	Consist Acceleration Rate	0	141	Snifter Valve Volume	64
24	Consist Deceleration Rate	0	142	Johnson Bar/Power Reverse	64
25	Speed Table Selection	0	143	Pop Valve/ Safety Valve	128
29	Configuration Register 1	6	144	Reserved	0
30	Alternate Mode Selection	4	146	Water Stop Volume	196
33	F0(f) Output Location	3	153	7-Band Equalizer Control	0
34	F0(r) Output Location	3	154	62Hz Cut/Boost	128
35	F1 Output Location	8	155	125Hz Cut/Boost	128
36	F2 Output Location	4	156	250Hz Cut/Boost	128
37	F3 Output Location	16	157	500Hz Cut/Boost	128
38	F4 Output Location	32	158	1kHz Cut/Boost	128
39	F5 Output Location	0	159	2kHz Cut/Boost	128
40	F6 Output Location	0	160	4kHz Cut/Boost	128
41	F7 Output Location	0	161	Reverb Control	0
42	F8 Output Location	0	162	Reverb Output Level	128
43	F9 Output Location	1	163	Reverb Delay	255
44	F10 Output Location	4	164	Reverb Gain	64
45	F11 Output Location	128	169	Whistle Reverb	0
46	F12 Output Location	16	170	Bell Reverb	0
47	Analog Whistle Control	0	171	Exhaust Reverb	0
49	Hyperlight F0(f)	142	172	Airpump Reverb	0
50	Hyperlight F0(r)	141	193	Automatic Bell ON Set Point	15
59	Flash Rate	4	194	Automatic Bell OFF Set Point	45
60	Grade-Crossing Hold Time	4	195	Grade-Crossing Whistle Sensitivity	4
61	F11 Braking Rate	0	196	Brake Squeal Sensitivity	3
62	Transponding Control	0	197	Analog Mode Auto. Sound Config.	6
63	Analog Mode Motor Start Voltage	40	198	DCC Mode Auto. Sound Config.	8
64	Analog Mode Max. Motor Voltage	180	209	Motor Kp Coefficient	40
66	Forward Trim	128	210	Motor Ki Coefficient	8
67-94	Speed Table	Varies	212	Motor Control Intensity	255
95	Reverse Trim	128	213	Motor Control Sample Period	15
105	User Identifier #1	---	214	Motor Control Aperture Time	15
106	User Identifier #2	---	216	BEMF Reference Voltage	140