

# Bachmann Spectrum On30 2-6-0



## Whistle Selections:

B&O 3-Chime (default)	0
GBL 40	1
D&RGW K-27 Single-Chime	2

## Exhaust Chuff:

Medium

## Air Compressor:

Single Phase

## Configuration Variable Defaults

CV #	Description	Default Value	CV #	Description	Default Value
1	Primary Address	3	132	Air Pump Volume Control	48
2	V Start	0	133	Dynamo Volume Control	32
3	Baseline Acceleration Rate	6	134	Blower Volume Control	16
4	Baseline Braking Rate	5	135	Rod Clank Volume Control	32
7	Manufacturer Version ID	83	136	Steam Hiss Volume Control	64
8	Manufacturer ID	141	137	Coupler Volume Control	128
10	BEMF Cutout	0	139	Brake Squeal Volume Control	128
11	Packet Time-Out Value	0	140	Brake Release Volume Control	64
12	Alternate Power Source	1	141	Snifter Valve Volume Control	64
13	Analog Mode Function (F1-F8)	0	142	Power Reverse Volume Control	64
14	Analog Mode Function (F0, F9-F12)	3	143	Pop Off Volume Control	0
15	CV Unlock Code	0	145	Blower Draft Volume Control	0
16	CV Lock Code	0	146	Water Stop Volume Control	96
17	Extended Address MSB	192	147	Injector Volume Control	64
18	Extended Address LSB	3	148	Coal Shovel Volume Control	64
19	Consist Address #1	0	149	Wrenches Volume Control	0
21	Consist Function Active (F1-F8)	0	150	Oil Can Volume Control	64
22	Consist FL Function Active (F0, F9-F12)	0	151	Grease Gun Volume Control	0
23	Consist Acceleration Rate	0	153	Equalizer Control Register	0
24	Consist Braking Rate	0	154	62Hz Cut/Boost	128
25	Speed Table Selection	0	155	125Hz Cut/Boost	128
29	Configuration Register 1	6	156	250Hz Cut/Boost	128
30	Error Information	4	157	500Hz Cut/Boost	128
33	FL(f) Output Location	3	158	1kHz Cut/Boost	128
34	FL(r) Output Location	3	159	2kHz Cut/Boost	128
35	F1 Output Location	8	160	4kHz Cut/Boost	128
36	F2 Output Location	4	161	Reverb Control	0
37	F3 Output Location	16	162	Reverb Output Level	128
38	F4 Output Location	32	163	Reverb Delay	255
39	F5 Output Location	0	164	Reverb Gain	64
40	F6 Output Location	0	193	Automatic Bell ON Set Point	50
41	F7 Output Location	0	194	Automatic Bell OFF Set Point	87
42	F8 Output Location	0	195	Grade-Crossing Whistle Sensitivity	8
43	F9 Output Location	1	196	Brake Squeal Sensitivity	5
44	F10 Output Location	4	197	Analog Mode Auto. Sound Config.	7
45	F11 Output Location	128	198	DCC Mode Auto. Sound Config.	8
46	F12 Output Location	16	201	Probability Fireman Fred	64
47	Analog Whistle Channel	0	202	Probability Fred's Wrenches	32
49	Hyperlight Effects- Headlight	142	203	Probability Fred's Grease Gun	16
50	Hyperlight Effects- Backlight	141	204	Probability Fred's Oil Can	32
57	FX Direction Control	255	205	Probability Fred's Injector	64
59	Hyperlight Flash Rate	4	206	Probability Fred's Blower	32
60	Grade-Crossing Hold Time	4	207	Probability Locomotive Pop Off	16
61	F11 Braking Rate	0	209	PID Kp Coefficient	80
62	Transponder Control	0	210	PID Ki Coefficient	20
63	Analog Mode Motor Start Voltage	47	212	Motor Control Intensity	255
64	Analog Mode Max. Motor Voltage	180	213	Motor Control Sample Period	12
65	Kick Start	0	214	Motor Control Sample Window Size	6
66	Forward Trim	128	216	Motor Control Reference Voltage	140
67-94	Speed Table	Varies	217	Motor Control Register	2
95	Reverse Trim	128	218	Analog Mode Engine Sound Start	31
105	User Identifier #1	0	219	Motor Control Calibration Delay	0
106	User Identifier #2	9			
112	Sound Configuration 1	0			
113	Quiet Mode Control 2	0			
114	Bell Ring Rate	9			
115	Whistle Selection	0			
116	Engine Exhaust Control	145			
118	Max. Engine Recovery Speed	204			
128	Master Volume Control	225			
129	Whistle Volume Control	225			
130	Bell Volume Control	92			
131	Exhaust Volume Control	75			

## Function Assignments

F0	Front/ Rear Lights
F1	Bell
F2	Whistle
F3	Short Whistle
F4	Steam Release
F5	Dynamo
F6	Water Stop
F7	Coupler
F8	Mute