Kato Big Boy Steam Locomotive

Factory Equipped with Tsunami2

Default Values

Whistle Selections	CV 120 Value	Whistle Selections	CV 120 Value	Whistle Selections	CV 120 Value
ATSF Step Top 6-Chime	0	Lehigh Valley Single-Chime	31	LNER A4 3-Chime	62
Baldwin Class B-4G	1	Lima Step Top 5-Chime	32	Hancock Flat Top 3-Chime “UP # 4014” (Road)	63
Baldwin Single-Chime	2	Lunkenheimer Flat Top 3-Chime	33	Hancock Flat Top 3-Chime “UP #4014” (Yard)	64
Baldwin Flat Top 3-Chime	3	L&N Passenger 3-Chime	34	ALCO Step Top 5-Chime (Yard)	65
Baltimore & Ohio 3-Chime	4	L&N Freight 3-Chime	35	Frisco Step Top 6-Chime (Road)	66
Boston & Maine Step Top 5-Chime	5	Milwaukee Road Step Top 6-Chime	36	Frisco Step Top 6-Chime (Yard)	67
C&O Flat Top Single-Chime	6	Nathan Step Top 5-Chime (Road)	37	CB&Q Step Top 3-Chime Cut Down	68
Colorado & Southern No.74 (Road)	7	Nathan Step Top 5-Chime (Yard)	38	Bell Field Bowl 3-Chime	69
Colorado & Southern No. 74 (Yard)	8	Nathan Step Top 5-Chime	39	Star Brass 3-Chime	70
Colorado & Southern No. 801	9	N&W Step Top 3-Chime No.611	40	Nathan Step Top 6-Chime	71
Crosby 5" Flat Top 3-Chime	10	N&W Flat Top Single-Chime No.1218	41	SP Step Top 6-Chime (Road)	72
Crosby 6" Flat Top 3-Chime (Road)	11	PRR Round Top 3-Chime	42	SP Step Top Desert 5-Chime	73
Crosby 6" Flat Top 3-Chime (Road)	12	PRR Flat Top Single-Chime "Banshee"	43	Canadian 6-Chime	74
D&RGW Flat Top Single-Chime	13	Reading Flat Top 6-Chime (1)	44	W&LE Step Top 5-Chime	75
C-19 No.340 (Road)	14	Reading Flat Top 6-Chime (2)	45	Replica 6-Chime Long Bell	76
C-19 No.340 (Yard)	15	Southern Railway 8" Flat Top Single-Chm	46	T&P Step Top 5-Chime	77
D&RGW K-27 No.463 (Road)	16	Southern Railway Iron Top 3-Chime	47	ATSF 6-Chime	78
D&RGW K-27 No.463 (Yard)	17	Southern Railway Flat Top 3-Chime	48	Southern 3-Chime Brass (Road)	79
D&RGW Flat Top 3-Chime K-28 No.473	18	Southern Pacific c Step Top 6-Chime (1)	49	Crosby 3-Chime	80
D&RGW Step Top 5-Chime K-36 No.487	19	Southern Pacific c Step Top 6-chime (2	50	Hancock Short Bell 3-Chime	81
Nathan Step Top 5-Chime D&RGW #488	20	Southern Pacific c GS-4 #4449 Whistle	51	Hancock Step Top 3-Chime	82
Powell Round Top 3-Chime D&RGW #489	21	Leslie A200 Airhorn SP GS-AC Classes	52	CB&Q Step Top 3-Chime (Road)	83
K-36 No.489 (Broken Chime)	22	Hancock 3-Chime Union Pacific # 3985	53	CB&Q Step Top 3-Chime (Yard)	84
K-37 No.497	23	USRA Step Top 6-Chime	54	N&W Flat Top Single Chime “Hooter”	85
Frisco No.1522 3-Chime "Steamboat"	24	Westside Lumber Co. Shay No.12	55	ATSF Flat Top 3-Chime	86
Hancock Step Top 3-Chime	25	Westside Lumber Co. Shay No.14	56	D&RGW 8” Single Chime	87
Hancock Flat Top 3-Chime UP No.4018	26	Heisler	57	CN Flat Top 3-Chime	88
Hancock Flat Top 3-Chime	27	Round Top Single-Chime "Peanut"	58	ACL Round Top 3-Chime	89
Hancock Short Bell 3-Chime (Road)	28	Wabco E2 Airhorn	59	Hancock Flat Top 3-chime UP # 4014 Rd Mix	90
Hancock Short Bell 3-Chime (Yard)	29	Single-Chime (1) ATSF Freight	60	**Hancock Flat Top 3-chime UP #4014 Yard Mx**	91
Illinois Central 3-Chime "Steamboat"	30	Single-Chime (2)	61		

Exhaust Chuff Selections	CV 123	Exhaust Chuff Selections	CV 123	Exhaust Chuff Selections	CV 123
Light #1	0	Medium #1	3	Heavy #1	6
Light #2	1	Medium #2	4	Heavy #2	7
Light #3	2	Medium #3	5	Heavy #3	8
				Heavy #4	6

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Air Pump Selections	CV 124 Value	Air Pump Selections	CV 124 Value	Air Pump Selections	CV 124 Value
Single-Phase (1)	0	Cross-Compound (3)	4	Dual Cross-Compound	8
Single-Phase (2)	1	Cross-Compound (4)	5	Vacuum Pump	9
Cross-Compound (1) (Westside Shay)	2	Dual "Whistling" Cross-Compound	6	Big Boy Air Pump	10
Cross-Compound (2)	3	Dual Single-Phase	7		

Dynamo Selections	CV 125 Value	Dynamo Selections	CV 125 Value
Dynamo (1): Westside Lumber Co. Shay	0	Dynamo (5): Japanese Class C56	4
Dynamo (2): D&RGW C-19 #340	1	Muffled Dynamo: D&RGW K-236	5
Dynamo (3): Frisco 1522	2	Double Dynamos: Dual UP 4018	6
Dynamo (4): UP 4018	3	Big Boy Dynamo	7

Coupler Selections	CV 126 Value	Coupler Selections	CV 126 Value
Light: GP7	128	Link-and-Pin	130
Heavy	129		

Default Function Assignments					
F0	Front & Rear Headlights and Dynamo	F10	Blowdown	F20	Injectors
F1	Bell	F11	Brake Squeal & Release	F21	Sander Valve
F2	Whistle	F12	Brake Select	F22	Cab Chatter
F3	Short Whistle	F13	Couple/Uncouple	F23	“All Aboard!”/Coach Doors
F4	Cylinder Cocks	F14	Half-Speed & Momentum Override	F24	FX3: On/Off Output
F5	Cutoff+	F15	Wheel Chains	F25	FX4: On/Off Output
F6	Cutoff-	F16	Water Stop	F26	FX5: On/Off Output
F7	Dimmer	F17	Fuel Loading	F27	FX6: On/Off Output
F8	Mute	F18	Ash Dump	F28	(not used)
F9	Grade-Crossing Signal	F19	Wheel Slip		

Configuration Variable Default Values

CV	Description	Value	CV	Description	Value	CV	Description	Value
3	Baseline Acceleration	35	120	Whistle Select	91	227	125Hz Cut/Boost	100
4	Baseline Braking Rate	35	122	Bell Select	58	233	Reverb Control Register	5
17	Extended Address MSB	207	124	Air Pump Select	10	1.263	FX7 Output	28
18	Extended Address LSB	174	125	Dynamo	6	1.264	FX8 Output	28
29	Configure Register 1	6	224	High-Pass Filter Cutoff	75	2.503	DDE Load Offset	0
112	Sound configuration 1	202	225	EQ Control Register	7	2.504	DDE Load Slope	83
114	Chuff Control	125	226	62Hz Cut/Boost	0	2.512	DDE Motor Load Gain	50

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Speed Table Default Values

CV	Value	CV	Value	CV	Value	CV	Value	CV	Value	CV	Value
*67	9	72	55	77	100	82	146	87	191	92	237
68	18	73	64	78	109	83	155	88	200	93	246
69	27	74	73	79	118	84	164	89	209	94	255
70	36	75	82	80	127	85	173	90	219		
71	45	76	91	81	137	86	182	91	228		

Default Volume, Alternate Mixer, and Reverb Mixer Settings

CV	Sound Effect	Std. Volume	Alt. Volume	CV	Sound Effect	Std. Volume	Alt. Volume
128	Master Volume	225		144	Blowdown	150	75
129	Whistle	225	112	146	Water Stop	50	25
130	Bell	45	25	147	Injectors	65	32
131	Exhaust Chuff	110	55	148	Emergency Stop	70	35
132	Air Pump	65	32	149	Uncouple	150	75
133	Dynamo	35	17	150	“All Aboard!”/Coach Doors	75	35
134	Blower	25	12	152	Leaky Valve Packing	15	7
135	Rod Clank	50	25	153	Clickety-Clack	15	7
136	Cylinder Cocks	100	50	154	Sander Valve	5	2
137	Coupler / Uncoupler	128	64	155	Fuel Loading	65	32
138	Train Brake	50	25	156	Firing	65	32
139	Brake Squeal	50	25	157	Wrench	50	25
140	Brake Release	50	25	158	Oil Can / Grease Gun	40	20
141	Snifter Valve	65	32	159	Ash Dump	50	25
142	Johnson Bar / Power Reverser	64	32	160	Cab Chatter	30	15
143	Safety Valve	225	112	161	Whistle Reverb	96	

If a CV or a sound selection is not listed within this documentation, the default value or selection choices match those of aftermarket SoundTraxx products. For more information about unlisted items, please refer to the Tsunami2 product documentation found on our website.