Athearn RTR GP50 HO Scale (2024-2025 Releases)

Factory Equipped with Econami™

Default Values



P.N.	Description	P.N.	Description
ATH-1521	HO RTR GP50, ATSF #3847	**ATH-1529**	HO RTR GP50, CIND #5008
ATH-1522	HO RTR GP50, ATSF #3849	**ATH-1533**	HO RTR GP50, CR Legendary Liveries #4500
ATH-1523	HO RTR GP50, ATSF #3853	**ATH-1534**	HO RTR GP50, CR Fantasy Scheme #4505
ATH-1527	HO RTR GP50, CIND #5000	**ATH-1535**	HO RTR GP50, CR #4507
ATH-1528	HO RTR GP50, CIND #5003		

Horn Selections	CV120 Value	Horn Selections	CV 120 Value
Nathan K3LA	0	Nathan P5A	8
Nathan K3L	1	Leslie A125	9
Nathan K5LA (1)	2	Leslie RS3L	10
Nathan K5LA (2)	3	Leslie S2M	11
Nathan M3	4	Leslie S3L	12
Nathan M5	5	Leslie S5T	13
Nathan P3	6	Wabco E2	14
Nathan P5 Early	7	Hancock 4700 Air Whistle	15

Bell Selections	CV 122 Value	Bell Selections	CV 122 Value
EMD #1	**0**-3	Canadian Brass Bell	16-19
EMD #2	4-7	Western-Cullen Hayes Gong Bell	20-23
EMD #3	8-11	Electronic Bell	24
EMD #4	12-15		

Prime Mover Selections	CV 123 Value	Prime Mover Selections	CV 123 Value
EMD 645 Non-Turbo	0	EMD 645 2nd Generation Turbo	2
EMD 645 12 Cylinder Turbo	1	EMD 645 16 Cylinder 2nd Generation Turbo EFI	3

Air Compressor Selections	CV 124 Value	Air Compressor Selections	CV 124 Value
Engine Driven	0	EMD Shaft Driven	1

Default Function Assignments					
F0	Headlight/Backup Light	F5	FX3 & FX4: On / Off Light	F13	Couple/Uncouple
F1	Bell	F6	FX5: Single Strobe & FX6: Prime Stratolite	F14	Half-Speed & Momentum Override
F2	Horn	F7	Dimmer	F23	“All Aboard!”/Coach Doors
F3	Short Horn	F8	Mute	F26	RPM+
F4	Dynamic Brakes	F11	Brake Set/Release	F27	RPM-

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Configuration Variable Default Values

CV	Description	Value	CV	Description	Value	CV	Description	Value
13	Analog Mode Functions 1	48	51	FX3: On / Off Light	128	114	Engine Exhaust Control	103
21	Consist Function Active	136	52	FX4: On / Off Light	128	195	Coach Door Counter	0
22	Consist FL Function Active	60	53	FX5: Single Strobe	133	197	Analog Auto Sound Enable	4
25	Speed Table Select	16	54	FX6: Prime Stratolite	136	200	Poppet Valve Rate	90
29	Configuration Data 1	6	57	Forward Directional Control	53	218	Analog Motor Start Offset	25
*37	F3 Output Location	16	58	Reverse Directional Control	58	225	EQ Control Register	3
49	Headlight Diesel-light	15	59	Lighting Flash Rate	7	1.278	Grade Crossing Signal	3
50	Backup Diesel-light	15	106	User Identifier 2	6			

**Note: ***CV 37: The short horn function can be changed to a grade crossing horn sequence by changing CV 37 to 0. If you would like to re-map the short horn function to another key using SoundTraxx' Flex-Map™ function mapping, CV 37 must also be set to 0 to prevent the short horn function from being activated with function key 3.

Speed Table Default Values

CV	Value	CV	Value	CV	Value	CV	Value	CV	Value	CV	Value
*67	11	72	60	77	109	82	154	87	182	92	210
68	21	73	70	78	120	83	159	88	187	93	215
69	30	74	80	79	130	84	166	89	192	94	220
70	40	75	89	80	140	85	171	90	198		
71	50	76	98	81	152	86	177	91	205		

Default Volume, Alternate Mixer, and Reverb Mixer Settings

CV	Sound Effect	Standard Volume	CV	Sound Effect	Standard Volume
128	Master Volume	199	137	Coupler	128
129	Horn	100	139	Brake Squeal	100
130	Bell	58	140	Brake Release	70
131	Prime Mover	135	143	Poppet Valve	16
132	Air Compressor	30	148	Emergency Stop	70
133	Dynamic Brakes	100	149	Glad Hand	150
134	Fan	75	150	"All Aboard!"/Doors	192

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.