

Athearn RTR F59PHI HO Scale (2021-2022 Releases)

Factory Equipped with **Econami™**

Default Values



P.N.	Description	P.N.	Description	P.N.	Description
ATH64653	RTR, Amtrak #451	ATH64665	RTR, UTAH #2	ATH64725	RTR, Amtrak #453
ATH64654	RTR, Amtrak #457	ATH64666	RTR, UTAH #6	ATH64726	RTR, Amtrak #457
ATH64655	RTR, Amtrak #459	ATH64667	RTR, UTAH #10	ATH64727	RTR, Amtrak #461
ATH64656	RTR, Amtrak #465	ATH64668	RTR, AMTL #1321	ATH64728	RTR, METX #90
ATH64657	RTR, Amtrak #466	ATH64669	RTR, AMTL #1325	ATH64729	RTR, METX #405
ATH64658	RTR, Amtrak #469	ATH64670	RTR, AMTL #1329	ATH64730	RTR, METX #425
ATH64659	RTR, METX #73	ATH64671	RTR, UP #970	ATH64731	RTR, RNCX #1755
ATH64660	RTR, METX #77	ATH64672	RTR, UP #971	ATH64732	RTR, RNCX #1797
ATH64661	RTR, METX #84	ATH64673	RTR, SP #6470	ATH64733	RTR, SCAX #874
ATH64662	RTR, METX #90	ATH64674	RTR, SP #6477	ATH64734	RTR, SCAX #878
ATH64663	RTR, Amtrak #455	ATH64675	RTR, DRGW #5800	ATH64735	RTR, CDTX #2002
ATH64664	RTR, CDTX #2007	ATH64676	RTR, DRGW #5817	ATH64736	RTR, CDTX #2008

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	EMD #4	12-15
EMD #2	4-7	Canadian Brass Bell	16-19
EMD #3	8-11	Western-Cullen Hayes Gong Bell	20-23

Prime Mover Selections	CV 123 Value	Prime Mover Selections	CV 123 Value
EMD 645 Non-Turbo	0	EMD 710 Version 1	3
EMD 645 2 nd Generation Turbo	1	EMD 710 Version 2	4
GE FDL-16	2		

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

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Default Function Assignments

F0	Headlight/Backup Light	F5	FX3: Ditch Light Type I (Phase A)	F13	Couple/Uncouple
F1	Bell		FX4: Ditch Light Type I (Phase B)	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-

Configuration Variable Default Values

CV	Description	Value	CV	Description	Value	CV	Description	Value
13	Analog Mode Functions 1	48	51	FX3: Ditch Light Type I (Phase A)	201	197	Analog Auto Sound Enable	4
21	Consist Function Enable 1	136	52	FX4: Ditch Light Type I (Phase A)	233	200	Poppet Valve Rate	90
22	Consist Function Enable 2	60	57	Forward Directional Control	13	218	Analog Motor Start Offset	25
25	Speed Table Select	16	58	Reverse Directional Control	2	225	EQ Control Register	3
29	Configuration Data 1	6	59	Lighting Flash Rate	7	1.261	FX5 Output	255
*37	F3 Output Location	16	106	User Identifier 2	6	1.262	FX6	
49	Headlight Dyno-Light	143	114	Engine Exhaust Control	103	1.278		
50	Backup Dyno-Light	143	195	Coach Door Counter	0	1.449		

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	175	137	Coupler	128
129	Horn	100	139	Brake Squeal	100
130	Bell	80	140	Brake Release	70
131	Prime Mover	200	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.