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N Scale Aero Train



Con-Cor Stock #: 0001-006019

This is a modified diesel NOTCH scheme and includes a "short horn blow" capability using CV156
 Moved F10 sequence to same priority as F7, AVOIDS scattered air events (F4 off) causing delays

project: steam_38a.spj
 SDF: Generic steam/diesel Scheme (Based on UP3985)
 Author AJ Ireland (c)Digitrax Inc.

(A) Function Key Usage:

F0- Lights
 F1- Bell
 F2- Horn/Whistle [CV150 selects Horn/Whistle type]
 F3- Coupler crash [Autocoupler/brake set by CV151 max spd]
 F4- Air feature disable- F4 OFF enables pop-off,drier and starts compressor/airpump
 F5- Diesel= Dynamic brake Fans, Steam= Waterpump turbine
 F6- Diesel=Notch UP - Steam=Blowdown ; iff CV155 is not 0
 F7- Crossing Gate Airhorn or; Diesel=Notch DOWN/Steam=Wheelslip, ;iff CV155 is not 0
 F8- Mute control, [F8 ON is muted.]
 F9- Brake squeal
 F10- Crossing gate Airhorn/Whistle sequence
 F11- Steam=Greaser, Diesel=Handbrake
 F12- Steam=Safety Blowoff

(B) Steam/SD38-2 Sound FX defined CV's: [decoder CV8=8 reset value in brackets]

CV58	Master Volume, 0-15, 0= max, (F8 used for Mute) [9]		
CV60	Scheme select CV, 0=Steam, 1=SD38-2 diesel	[0]	
CV121	Software Version, MUST be 2 or higher	[3]	(Read Only Value)
CV122	Product TYPe, 12 = Digitrax SFX sound decoder		Read Only Value
CV123	Hardware Version, 17= SDH104K1 decoder		Read Only Value
CV124	Flash Signature	[2]	(Read Only Value)
CV125	16KB free blocks	[0]	(Read Only Value)
CV126	FAT flags	[7]	(Read Only Value)
CV127	Internal Flags	[0]	(Read Only Value)
CV128	IPL counter	[0]	(Read Only Value)
CV132	Diesel Notch rate	[127]	
CV133	Steam Chuff/CAM config, 128=>EXT cam, 1-127=>DRIVER dia in inches	[63]	
CV134	Steam gear ratio trim, 32=100% ratio,	[32]	
CV135	Volume when Muted	0-64	[0]
User configurable SoundCV's:			
CV140	PRIME mover Diesel/chuff vol	0-64	[60]
CV141	BELL vol	0-64	[25]
CV142	WHISTLE/HORN vol	0-64	[60]
CV143	Air features vol (popoff,drier,comp)	0-64	[30]
CV145	Misc vols	0-64	[40]
CV146	BELL delay (24mS counts)	1-100	[7]
CV147	Drier rate, (1= about 2secs)	1-64	[2]
CV148	Compressor/Airpump Start rate		[30]
CV149	COMPRESSOR/Airpump run time		[20]
CV150	Horn/Whistle Selector,0=std , 1=Playable volume 2=Alternate		[0]
CV151	PEAK speed to allow AUTO coupler/brake on DIR change and F3 on.	0-60	[48]
CV152	Author ID Digitrax=0xDD/221		[221]
CV153	Project ID Steam/SD38_2a		[5]
CV154	Steam Blowdown/Safety vol	0-64	[60]
CV155	Notching/Slip Mode,0=AUTO, 1=SEMIAUTO,2=MANUAL NOTCHES		[0]
CV156	Horn DELAY Threshold		[10]
CV160	Variant ID		[4]