

Con-Cor International, Ltd  
 8101 E. Research Court  
 Tucson, AZ. 85710  
 1-888-255-7826  
[www.con-cor.com](http://www.con-cor.com)



# N Scale M-10000



**Con-Cor Stock #: 0001-006011**

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]