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HO Scale M-10000



Con-Cor Stock #: 0001-006003

(A) Function Key Usage:

- F0- Lights
- F1- Bell
- F2- Horn/Whistle [CV150 selects Horn/Whistle type]
- F3- (coupler engage sound has been disabled)
- 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
- 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 TType, 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]

(C) General Notes

The SDH104K1 decoder is used in conjunction with FN04 4 line FX3-type function decoder . SDH104K1 responds as per standard FX3 decoder (e.g. DH163D)for CV1-120. FN04 does not respond to/execute any CV programming in SoundCV (SCV) range CV121-255. Both decoders have CV15/16 lock capability for advanced users.

For CV155=01 ["Semi automatic Notching"] when CV60=1=Diesel, the Prime mover lowest Notch setting is set by the throttle speed setting. F6 (ON) can increase the Notch and F7 (ON) will decrease the Prime mover to the minimum notch set by current throttle setting.

Note: SFX004/SFX0416N are 3.6V sound units that can use 8ohm speaker load for higher output levels

Note: We recommend changing CV 150 to value of 1 which we think simulates the best horn sound for New Haven Comet.

For colored and larger pictures go to the following web pages:

<http://www.con-cor.com/HO-1935-New-Haven-Comet.html>

<http://www.con-cor.com/CometDecoder.pdf>