Do decoder resets on program track only.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  |  | | --- | --- | --- | | Manufacturer | Mfg. ID in CV8 | CV for reset + value | | Lenz | 99 | CV8 = 33 | | NCE | 11 | CV30 = 2 | | Digitrax | 129 | CV8 = 8 | | LokSound (ESU) | 151 | CV8 = 8 | | Train Control System | 153 | CV8 = 8 or CV30 = 2 | | SoundTraxx: DSDLC, DSX Tsunami (1) | 141 | CV 30 = 2 CV8=8 | | MRC (New) (2) | 143 | CV125 = 1 | | QSI (1) | 113 | See Below | |

(1) Generally requires PowerPax, Programming Track Booster   
(2) Generally is not reliable in Read-Back

Consisting information in command station has lead loco number / rear loco number = consist id number. This will be lost if command station is reset or consists are cleared from command station

Consist id in loco = cv19, stored in decoder, set to 0 for none or consist ID.

If consist id is unknown after command station reset, will need to recreate.

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**mfg id 101** - Bachmann tsunami

reset select loco to 55, cv 55, value of 55

then rock loco to break contact and reset loco

or try setting cv 8 to value of 8

tsunami can only program short address on program track

to identify a decoder as a Tsunami - function 3 , is short whistle

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**mfg id 11** - NCE factory reset CV30 to value of 2

cv1= short address, default is 3

cv29= default is 6 which is:

short address, factory speed table, 28 steps, dual mode on,

cv19 =0 disables consisting

**MFG ID – 151 Loksound (ESU)**

Reset CV8 = 8

|  |  |  |
| --- | --- | --- |
| MFG |  |  |

loksound horn issues – might need to increase number of horn stop packets to 4

The ESU Loksound V4.0 & Select decoders use a multiplier factor of 0.25 rather than the NMRA standard factor of 0.896 for the values of Acceleration (CV 3) and Deceleration (CV 4) rates. This means that you will need to enter a value nearly 4 times as great (3.6) in the Acceleration and Deceleration CVs to achieve the same rate as in a LokSound V3.5 or almost any other brand of decoder. This can be a problem with the NCE Momentum button, particularly if you have V4.0 (or Select) and other model decoders in the same consist.

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**mfg id 127** Lenz

lenz decoders -tilt loco for 7 seconds to reset decoder

- Atlas / lenz reset set CV8 value 33

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**mfg 113** QSI / BLI

qsi - sometimes have background noise

qsi cv 23 and 24 to 0 to disable momentum

QSI locos might have a reed switch and magnet wand to turn on.

Requires Programming Track Booster if used with 5 amp PH-Pro

To use ops mode programming / POM must disable voice read back

Set CV62=0 to turn off

The Broadway, Atlas, and Lifelike equipped with QSI (ID 113) DCC sound engines use a different reset procedure. Check the manual that came with the engine. Some use a magnetic “wand” for the reset. If there is no "wand" then open the engine or access hatch and find the reset jumper. Remove the jumper and restore the track power. There will be an audible acknowledgment from the engine at the end of the reset sequence (usually 3 toots of the whistle/horn). Replace the jumper and test out using address 3.

If a "wand" is present, locate the internal reset reed switch and place the "wand" over it for a moment. When track power is restored the engine will go through its reset procedure and let you know when done. To find the internal reset (reed) switch, place the engine on active track. Slowly move the "wand" over the top of the engine or tender until the engine alerts you, audibly responds, by a message.

QSI also has software reset using the following multi step procedure:

(1) Place engine on main track if it is still responding to its address. If not responding you may need to use the program track.  
(2) Set CV49 to 128 default is 160?  
(3) Set CV50 to 255 default is 246?   
(4) Set CV56 to 113 default is   
As engine resets you will hear the 3 toots. Test out the locomotive using address 3.

QSI also has some selective resets. Refer to the DCC Reference Manual for this information.

MTH

To reset MTH to the address to factory default 3.

Set the engine on the main, enter up loco #55, to into

program on main. program loco 55, CV 55 with a value of 55.

exit out, tilt loco

and call up loco 3,

perform start up by press F3 to start loco.

If you want to re enable long addressing

at this point, go back into programming for loco 3,

at CV29 enter a value of 38.

Now you can program a long address

F7 to cycle thru 9 volume levels

F8 for smoke