



Operating your Walthers Sound-Equipped Locomotive with DCC

Changing the Address on your Walthers Proto2000 Tsunami equipped locomotive:

The Tsunami supports both short (CV 1) and long (CV 17,18) addresses. Short addresses have a range of 1-127 while long addresses have a range of 0001-9,999. The address on your decoder can be changed on either the programming track (with the aid of a PTB-100 programming track booster available from SoundTraxx) or on the mainline.

Programming Track:

When programming the address on the programming track simply change the corresponding CVs to the desired address.

Example: Changing the address from 3 to 50, set CV 1=50 and the locomotive will now respond to address 50 when placed on the mainline.

**Note most command station will just ask the address you want and will change the CVs internally*

Mainline Programming (Ops Mode):

If you do not have a PTB-100, you can still change the address on the mainline

When programming the address on the mainline it is important to note that you must know the current address of the locomotive or else it will not program that locomotive since it only sends the programming packets (CV adjustments) to the selected locomotive. It is also important to notice what type of address you currently are using as the decoder will not allow you to change the type of address currently in use. So for example, a Walthers Tsunami equipped locomotive comes with a default value of short address 3 so to change the address you must change it to a long address.

Example: changing the address from 3 to 50

Step 1: First, with locomotive 3 selected, change the address to a long address not being currently used that is easy to remember such as 1000, by using either the long address option found on most command stations or manually via CVs 17,18, and 29.

**Note most command station will just ask the address you want and will change the CVs internally*

Step 2: Next, exit out of mainline programming and select locomotive 1000 and make sure the engine runs on its new address.

Step 3: With locomotive 1000 selected go back into mainline programming and change CV 1 = 50, and change CV 29 = 6

Step 4: Exit out of programming mode and select locomotive 50. The locomotive will now be on address 50

Function Assignments:

Walthers equipped locomotives contain all of the sound features found on any aftermarket Tsunami, however the function mapping defaults have been customized for each locomotive. The differences between the decoders are listed below:

Diesel:

Function	Proto 2000 HO	Tsunami Aftermarket
F0(f)	Headlight	Headlight
F0 (r)	Backup light	Backup light
F 1	Bell	Bell
F2	Horn	Horn
F3	Short Horn	Short Horn
F4	Dynamic Brake	Dynamic Brake
F5	Effect light	Effect Lighting
F6	Effect light	Effect Lighting
F7	Dimmer	Dimmer
F8	Mute	Mute
F9	Brake Squeal	Radiator Fans/RPM+
F10	Coupler	Air Compressor/RPM-
F11	Not Assigned	Brake Squeal
F12	Not Assigned	Coupler

After Market Tsunami

CV	Default Value
	Diesel
33	1
34	2
35	8
36	4
37	16
38	8
39	2
40	4
41	16
42	32
43	8
44	32
45	64
46	128