

## **OLD DOMINION RAILWAYS**

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### PROCEDURE FOR ADJUSTING THE LGB SOUND MODULES TO SYNC THE STEAM CHUFF SOUNDS WITH THE LOCOMOTIVE'S WHEELS REVOLUTIONS

There are two CV settings for adjusting the chuff sounds on the LGB 65001 Sound Module. To set CVs on the Module, just like any DCC/DC decoder requires even when operating it in DC Analog power, you must use a DCC command station or a PC Programming Module, such as the Massoth PC Programming Module, or a MD Electronics PC Module.....I sell both as listed on my Website. Consult the LGB Sound Module User Guide for these settings for operating it in DC Analog power.

1. First, if you don't already have one installed, I recommend installing the LGB 65011 Power Storage Unit (Power Caps) that plugs into one of the sockets in the Sound Module. I sell them for \$80 plus shipping. Once the Power Caps are charged up after operating your locomotive for a few minutes, you will notice that when your locomotive comes to a stop, you will continue to hear the steam sounds, and one of the two automatic sounds will usually activate such as steam release or coal shoveling. Then when you start your locomotive again, the Power Caps will activate the sounds at the same time since sound decoders require a minimum of about 9 volts before they turn on. With the Power Caps, you will also hear the one whistle blast when the locomotive starts. Without using them, your locomotive will start moving for a while until the Sound Module receives the minimum voltage to start, and you will not hear the automatic whistle sounds.
2. CV193 Start Threshold Analog: Factory Default Setting 128; change it to 1 – 30 range. Sometimes 30 will be sufficient to sync the chuff sounds with a Mogul's wheels revolutions. But I've also found using 1 works better. Try one of the settings to see what works best.
3. If after changing CV193 you still don't have the chuff sounds in sync, you can then change CV2, Start Up Voltage. The Factory Default is 2; if you change it to 1, then in theory the Sound Module is start to activate with less voltage. If you change it to 2 -5 range, then it requires more voltage to start. Again, something you can experiment with.
4. If you want to use a Hall/Chuff Sensor to create the chuff sounds, then you need to change CV195 Factory Default Setting 0 to 4. But again, you will still not hear any sounds when the locomotive first starts or stops unless you also install the LGB 65011 Power Storage Unit (Power Caps) as I previously explained.

Those are the basic changes that should help get your Sound Module to be in sync with the locomotive's wheels revolutions, or certainly to improve it.