

Spectrum[®]

**Quick
Start
Guide**

**For Bachmann[®]
DCC-Equipped Locomotives**

Overview

Congratulations on the purchase of your Bachmann locomotive with DCC decoder installed. This state-of-the-art decoder will provide all the benefits of today's DCC (Digital Command Control) technology.

This **Quick Start Guide** assumes that you have some understanding of, or experience with other decoders. It covers the differences you may need to know between these decoders and any you may have previously used.

If you are new to DCC, you should start with the **User's Guide** which will walk you through the various aspects of programming your decoder, as well as some tips on troubleshooting. For the power user, the **Technical Reference** will provide a list of all the CVs available for use with your decoder and their exact function and make-up for those who wish to have a complete reference for advanced programming techniques. These documents are available on our website (www.bachmanntrains.com). Please note that you need to have Adobe® Acrobat Reader installed on your computer to open and print these files. This is available as a free download from www.adobe.com.

Features and Specifications

The decoder installed in your Spectrum® model has numerous features designed to enhance your operating experience. It has been pre-programmed for a great ready-to-run experience. However, there are many features available that you may wish to experiment with or adjust to suit your personal preferences.

Additionally, this decoder has been designed to accept a "Plug and Play" sound module, designed specifically for Bachmann® by SoundTraxx® using their Tsunami® Digital Sound Technology. With the purchase of one of these DCC Sound modules, your Spectrum® locomotive can easily be equipped for sound with a simple, no-fuss installation. For details on the Spectrum® sound module, visit our website.

Throttle Features

The Decoder that comes with your Bachmann® model has many advanced throttle features. With the addition of these features, you will be able to better control your locomotive speed under varying conditions.

Decoder Specifications

- Supports extended address mode for assigning any locomotive number up to 9,999.
- Supports advanced consist addressing.
- Supports 'Operation Mode Programming', allowing CVs to be changed on the mainline without using a programming track.

Throttle Specifications

- Supports 14, 28 and 128 speed step modes.
- Programmable acceleration, deceleration and starting voltage for prototypical starting and stopping.
- Use of standard and alternate speed tables.

Lighting Specifications

- Supports Rule 17 operation or automatic direction control

Let's Get Started!

Your Decoder has been installed with all CVs pre-programmed so you can begin using your locomotive immediately without having to worry about what adjustments to make. Motor control features have been optimized for the locomotive. The decoder is set to operate immediately using either a 12 volt DC power pack or NMRA-compatible DCC command station.

Operating with DCC

Your locomotive will respond to address 3 as it would if you had just installed any DCC decoder.

For now, simply set your controller to Locomotive Address 3, place the locomotive on the mainline and away you go!

Since CVs are pre-programmed for individual models to achieve the best possible sound and operation, default values will vary from locomotive to locomotive. You can find the default values for each model listed on the Bachmann website (www.bachmantrains.com).

Operating in Analog Mode Using a DC Power Pack

While the decoder installed in your Bachmann model is first and foremost a DCC decoder, it may be used on a DC powered layout. You may control your locomotive using an ordinary power pack though operation will be a bit different than when running non-decoder equipped locomotives.

The throttle must be turned up to around 5 volts or so to provide sufficient voltage to power up the internal circuitry of the decoder.

Increasing the throttle further to around 7.5 volts or so will set the locomotive in motion, increasing speed as the throttle is increased. Note that the direction can only be changed when the locomotive is stopped.

When operating in analog mode, be careful not to exceed the decoder's input voltage rating of 27 volts. **When your track voltage exceeds 21 volts, the decoder will automatically shut off and flash the front and rear lights: back down on the throttle immediately.**

Important: Your decoder will work best in analog mode when using a high quality, electronically regulated power pack, preferably one that supplies smooth, filtered DC power. Older rheostat style power packs and pulse power packs will result in erratic and unreliable operation. If your power pack provides a Pulse power switch, leave it in the 'Off' position.

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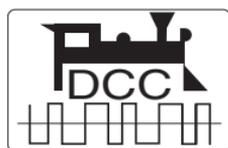
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COMPATIBLE WITH
THE NMRA DCC STANDARDS
AND RECOMMENDED
PRACTICES

For service/repair, contact the Bachmann Service Department at 1-800-356-3910 or via e-mail at service@bachmanntrains.com. Bachmann's Service Department is available Monday thru Friday, 8:00 am to 4:00 pm ET.

Please be aware you may need to leave a message on our voice mail system. Your call will be returned as soon as a service technician is available. We thank you in advance for your patience.

You can also send your locomotive to:

Bachmann Trains
Service Department
1400 East Erie Avenue
Philadelphia, PA 19124

Please include a detailed description of your concern and complete contact information.



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