

BACHMANN®



WOWSound®

Instructions for the Bachmann Plug & Play ACS-64 DCC & Sound Decoder

DCC Sound-ready HO Scale Siemens
ACS-64 locomotive required

Please Read First

Congratulations on the purchase of this TCS WOWSound® Plug & Play Digital Sound Decoder from Bachmann. This decoder has been specifically designed for installation in your Bachmann HO Scale Siemens ACS-64 locomotive. When carefully installed, the decoder will provide all the benefits of DCC technology with CD-quality 16-bit 44,100Hz digital sound. Please note that while each decoder is tested thoroughly before it is shipped, the user is responsible for correctly installing the decoder. It is essential that you read and follow the information and steps below for a successful installation.

WOWSound® Decoder Functions:

- Button actuated braking
- Extended momentum for realistic acceleration and deceleration
- Back EMF for slow-speed operation
- Automatic sounds when operating on DC track
- Supports 14/28/128 speed step modes
- Both simple and advanced consisting for MU (Multiple Unit) operation
- Supports User Loadable Speed Tables for completely custom speed curves

Light Features:

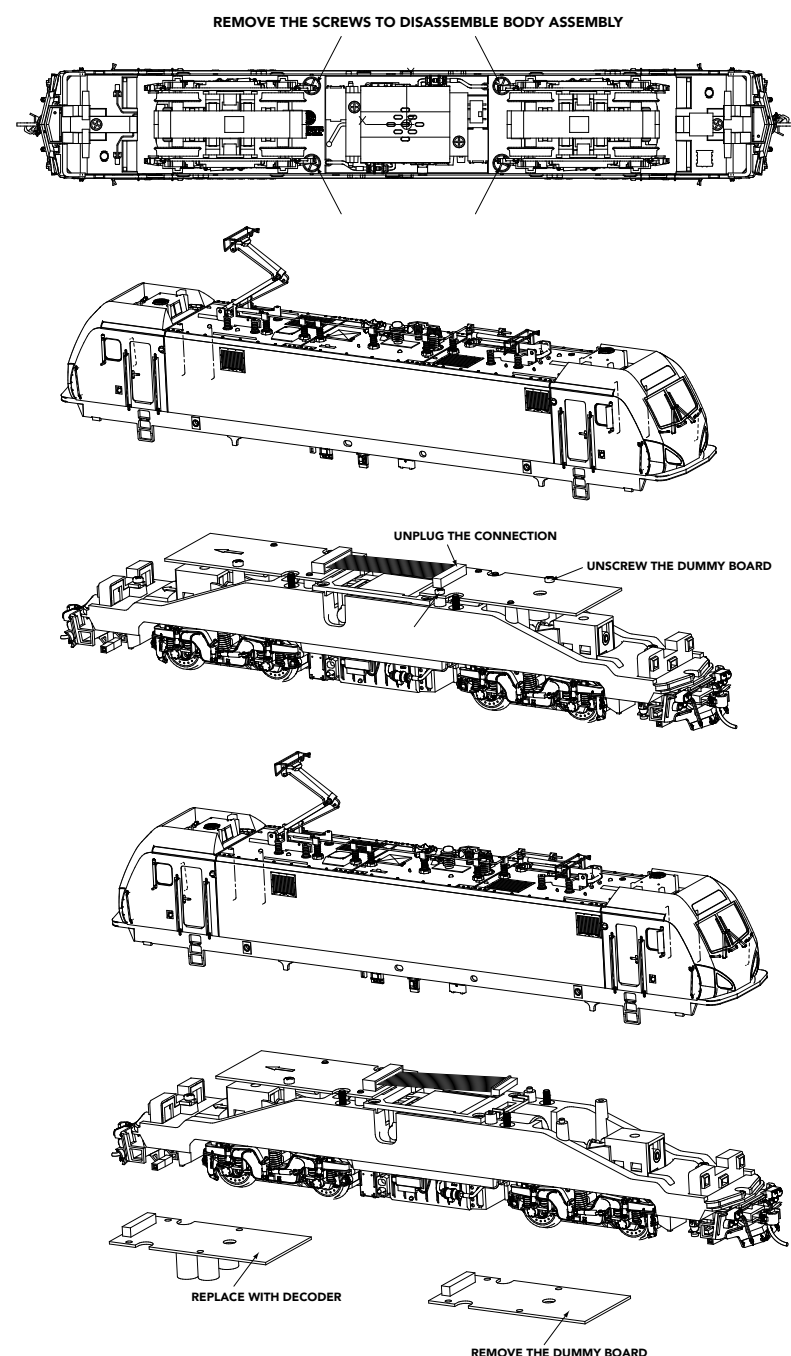
- Full Rule 17 Dimming features
- Fully remappable light functions (control any light with any button)
- 20 different lighting effects
- 6+ light functions for realistic lighting
- Light Mode/Sound Mode function mapping that allows each button to perform two actions independently

Sound Features:

- 1W+ amplifier for powerful sound in a small package
- Load-based motive power sounds that adjust automatically to the load, speed, and track conditions on your layout
- Variable length horn/whistle sound for custom signaling
- True CD-Quality Audio - WOWSound® is the ONLY decoder with 16-bit 44, 100Hz audio files for unparalleled fidelity
- A large number of sound variations to make MUs more enjoyable
- Page mapping that allows you to control all functions with just buttons 0-9



Installing Your Sound Decoder:



Programming Your Decoder:

The default address of all DCC decoders is 3. Once your sound decoder is installed, place the locomotive on the rails and select address 3 on your command station. To change the address to another number less than 126 (99 for some command stations), place the locomotive on the programming track and follow your command station instructions for programming CV 1 to your chosen address below 126. For addresses higher than 126, use your command station's instructions for "long address" programming. For Bachmann's *E-Z Command*® system, simply follow your command station instructions for programming the address (programming track not required). With your locomotive addressed and responding on the DCC mainline, press function button 8 four times rapidly to enter Audio Assist®. Audio Assist will then guide you through configuring a wide array of features.

Resetting Your Locomotive:

To reset your locomotive to the default settings your sound decoder arrived with, you can program CV8=2 or (while operating on DCC) through Audio Assist. From the Audio Assist Main Menu the button presses, in order, for a full factory reset are: Button 4 → Button 3 → Button 2.

Operating with the Sound Decoder Installed:

Your TCS WOWSound® Decoder is preconfigured with all of the settings best suited to replicate the prototype ACS-64 locomotive. This means you can place your engine on the track and immediately start running with either a DCC command station or a DC power pack.

DC Operation:

Using a standard DC power pack supporting up to 18v, your sound decoder-equipped locomotive will come to life as soon as you place it on the track and ramp up the power to 7.5v and above. In DC operation the sound and light functions will automatically operate based on the direction of travel and the amount of power applied at the throttle. Your sound 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 and should not be used with this sound decoder. If your power pack provides a Pulse power switch, leave it in the 'Off' position.

DCC Operation:

With your locomotive address selected, you can begin moving the locomotive with the throttle control and you can also control the light and sound functions with the function buttons. The function pagination feature found on this sound decoder is designed to allow *E-Z Command*® system users convenient access to all functions. Each "page" of functions will correspond to a group of up to ten functions: 0 through 9, 10 through 19, and 20 through 28. For systems that support all function buttons, it is not necessary to use the pagination system. On these systems, you may access each function directly according to its function address. To navigate the paginated function mappings with *E-Z Command*® or *E-Z Command*® Plus, see below:

E-Z Command®

Press function button 8 twice rapidly to switch from page 1 Sound Mode to page 1 Light Mode. Every double press of function button 8 after this will rotate to the next function page.

E-Z Command® Plus

E-Z Command® Plus users should rotate among the function pages by using the Function button on the *E-Z Command*® Plus command center ONLY. The Function button will light up green, blue, or red to indicate which of the three function pages is being accessed.

For a full list of pre-programmed sound and lighting features included on the decoder, scan the QR code for our DCC Sound on Board® ACS-64 Quick Start Guide or visit www.bachmanntrains.com and navigate to the HO ACS-64 documentation page.



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Service and Repair

For service/repair, contact the Bachmann Service Department. Please include a detailed description of your concern and complete contact information. For some service issues regarding DCC sound decoders, the Bachmann Service Department may forward your locomotive to TCS for resolution.

Use Our Online Service Form

www.bachmanntrains.com

Contact Our Service Department by Email

service@bachmanntrains.com

Call Us at: 215 533 1600

Bachmann's Service Department is available Monday - Friday, 8:30 AM to 4:30 PM ET. Please note your call will be answered as soon as a service technician is available. We thank you in advance for your patience. You can also send your locomotive with a detailed description of the issue you are experiencing to:

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

Please include your full contact information including your return address when sending an item to us for repair.