



TECH 6 SOUND CONTROLLER 2.0

Item: 0001200

INTRODUCTION

Thank you for purchasing this MRC train controller. This pack will provide plenty of power and will tap into all of the sounds and lighting features available in any locomotives that are equipped with DCC (NMRA spec) sound decoders.

Please note if you use Blue Line locomotives you will need to install a power decoder.

SPECIFICATIONS

Input:	15VDC
Output:	0 to 15VDC
Maximum Current Rating:	2.0 amps
Total Output:	30VA

OPERATION

The TECH 6 operates as a normal DC power pack. It is also a sound controller that can operate all of the sounds in your locomotive if it contains a DCC sound decoder. It has two modes of operation, STANDARD (STD) DC for non sound equipped locomotives and DUAL for operating sound equipped locomotives.

MODE I: TRADITIONAL DC OPERATION MODE

If you wish to operate a standard, non decoder equipped loco, press **Mode** key to select **STD** mode. You can use the throttle knob to control speed and the direction ◀▶ key to change the locomotive direction. *You can use this mode for Blue line locomotives if they do not have a power decoder, but you will not control all of the sounds.*

For the advanced user, you may want to adjust the Start Voltage, Acceleration Momentum, Deceleration Momentum, and Top Voltage. You can do so quite easily; just follow the steps shown in "Adjusting Feature Variables".

MODE II: POWER AND SOUND CONTROL MODE

This mode is to run and control the sounds in your decoder equipped loco. Press the **Mode** key to select **Dual** (power with sound) mode. You should be able to control your loco with the throttle knob and change locomotive direction with the direction key. Whenever it does not

respond, press the **SHIFT** key and then press **9, 9**. This will reset your loco to factory default within 5 seconds. *Note, if you plan to use a locomotive with a DCC system, you will need to re-program the loco using the DCC system after it was used with the Tech 6.* You can turn on / off the headlight by pressing **0**. You can turn on / off the Bell by pressing **1**. To blast the horn press, **2**. To control functions F3 to F9, press 3 to 9. To control F10 to F28, press **SHIFT** and then press the desired two digit number.

ADJUSTING FEATURE VARIABLES-BOTH MODES

1. Press **P**, all LEDs will turn on.
2. Press any one of the numbered buttons listed below to adjust the individual feature:
 - Button **2** is used to set Start Voltage
 - Button **3** is used to set Acceleration momentum
 - Button **4** is used to set Deceleration momentum
 - Button **5** is used to set Top voltage

And then press **ENTER**, all LED's will turn off.

3. Using the keypad, input a value range from 0-32*.
4. Finish the process by pressing **ENTER** again. The Tech 6 will return to run mode and will memorize your setting until you wish to make another change.

If you wish to make another adjustment, repeat the above steps.

**If you are using a standard locomotive with no sound decoder installed or your locomotive has an MRC decoder installed, the range of adjustment is from 0 to 32. "0" is the lowest value, while "32" is the maximum value. Some other brand sound decoders may have a different range of adjustments (some are 0 to 255). Please read your loco manual or decoder instructions and refer to CV numbers 2,3,4,5 for their range of adjustments. In the "STD" mode with a standard locomotive, these adjustments are memorized by the Tech 6.*

If you are an advanced user, you may wish to adjust the decoder CVs (configuration variables). Here is how it is done.

ADJUSTING CV'S

1. Press **P**, all LEDs will turn on.
2. Input the CV number you want to adjust and then press **ENTER**, all LEDs will turn off.
3. Input the CV value
4. Finish the process by pressing **ENTER** again. The Tech 6 will revert back to run mode.

If you want to adjust another CV, you have to repeat the above 4 steps. For more information on CV definitions and their values, please read your loco manual or decoder instructions.

WALKAROUND

Tech 6 Sound Controller has a built in jack for a handheld controller. The optional handheld controller will provide mobility around your layout. You will also be able to operate multiple decoder equipped locomotives on the same track. For more information on this feature and possible upgrades, please visit our website:www.modelrectifier.com.

COMPUTER CONTROL

Tech 6 has computer interface capability. So you can operate your locomotives through a computer using our exclusive MRC software. Visit our website and you can download our software for free. You can view the various screens, including the dual throttles. If you like the idea of using these throttles and the other features our software offers, you can order our Tech 6 computer interface to connect Tech 6 to your computer. For further information on the software, visit our website.

SERVICE

Your Tech 6 Sound Controller has been thoroughly tested before leaving our facility. If for some reason you are having problems with your Tech 6, please contact our Customer Service Department using the contact information below.

This unit is covered by a 1 year limited warranty*. If it should become necessary to return the unit for warranty service, **please include a copy of the original sales receipt**. The sales receipt must clearly state the product ID or description, date of purchase, place of purchase, and price paid. Please include a letter (printed clearly) with your name, address, email address or daytime phone number, and a detailed description of the problem you are experiencing. Please also include a check or a money order for \$9.00, payable to **MRC**, to cover return shipping and handling. If the unit is no longer considered under warranty, then please include a check or a money order for \$39.00 to cover the cost of repair or replacement and return shipping and handling. We recommend sending the unit in its original unit box and then well packed in another outer carton. Be certain to send it either Parcel Post insured or United Parcel Service. Model Rectifier Corporation is not responsible for damage incurred during shipping.

Send the unit to:

Model Rectifier Corporation
Attn: Parts & Service
80 Newfield Avenue
Edison, NJ 08837-3817 U.S.A

Any questions can be directed to our Customer Service Department by calling 732-225-6360 between the hours of 8:30am and 6:00pm EST, or by emailing us at: rrtech@modelrectifier.com

FOR YOUR PROTECTION

1. Never reverse a locomotive without stopping it first. To do so may damage the locomotive motor.
2. Unplug your power supply at the end of the day's operation.
3. Avoid prolonged overloads and short circuits. Your Tech 6 is equipped with safety devices to prevent accidental damage due to short circuits and overloads but it is unwise to subject the unit to these frequently.
4. Children under the age of 14 should be supervised by an adult when operating this product.

***ONE YEAR LIMITED WARRANTY**

Model Rectifier Corporation (MRC) will, subject to the conditions explained and set forth below, repair at its expense, within one calendar year from the date of sale, any component of this MRC Train Control which is proven defective by reason of improper workmanship or materials. MRC will repair said component(s) without charge for necessary parts or labor. If the unit cannot be repaired, it will be replaced with another unit or similar train control of equal or greater value.

CONDITIONS

1. **Limitation to original purchaser and proof of date of purchase:** The obligations of MRC set forth herein shall only extend to the original purchaser. The burden of proof as to the date of purchase is on the purchaser, thus it is recommended that you retain your bill of sale or sales receipt and include it with the return of your train control, keeping a copy of same for your records. This bill of sale or sales receipt must have the date of purchase and the name and address of the dealer.
2. **Validation of the Warranty:** The validity of the above stated warranty is contingent upon the original purchaser possessing an original copy of the sales receipt that shows the product's name and/or model number, purchase date, name of the dealer, and the address of the dealer. The burden of proof rests with the purchaser of the Tech 6.
3. **Exclusions from Warranty:** The warranty does not apply to (a) any marring, scratching, or defects in decoration and/or finish, (b) any damage or defect resulting from misuse, abnormal service, water, or weather damage, (c) any damage incurred in shipping and handling, (d) any incidental or consequential damage(s) caused by or resulting from a defect in material or workmanship or other equipment failure, (e) any damage arising from the train control not being used in accordance with the instructions provided. Your sole remedy shall be repair or replacement as herein above expressed. Under no circumstances shall MRC be liable for any losses or damage, direct or consequential, arising out of the use of or inability to use this MRC train control. No implied warranty shall continue beyond the one calendar year from the date of purchase. Further, any modification, alteration, or tampering with the MRC train control or any repair other than that done at the factory automatically voids the warranty.
4. **Notice:** Some states do not allow limitations on how long an implied warranty lasts or the inclusion or limitation of incidental or consequential damages, so the above state limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may have other rights which vary from state to state.

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