

\$12.00, 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 \$45.00 to cover the cost of repair and return shipping and handling. There will be an additional fee for non-warranty replacement. We recommend sending the unit in its original 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

***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 solely 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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TECH 6 SOUND CONTROLLER 6.0

Item: 0001201

INTRODUCTION

Thank you for purchasing this MRC train controller. This pack will provide 6 amps of power and will allow you to access 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:	15-18VDC
Maximum Current Rating:	6.0 amps
Total Output:	100VA

CONNECTION

The unit comes with a base unit, power supply, and a handheld. Connect the power supply's red wire to the terminal marked with "+" and the black wire to the terminal marked with "-". Use 18 gauge wire to connect your layout to the terminals marked "Track". Plug the handheld into either of receptacles labeled "Cab Jack". You are now ready to operate your layout.

PLEASE NOTE

You can install multiple cab jacks around your layout for walkaround operation using item #0001501 extension plate. However, only one tethered handheld can be used at any one time. Never plug any other handheld into the base unit. Doing so may damage the base unit or handheld.

OPERATION

The TECH 6 can operate as a normal DC power pack, or, as a controller that can operate your locomotive with sounds and activate all of the sounds in your locomotive if it has a DCC sound decoder installed. It has two modes of operation, "STANDARD" mode for analog, or DC locomotives (LCD will display **Loco** in this mode), and "DUAL" mode for operating sound equipped, or DCC locomotives (LCD will display **Loc** and a number in this mode. For example, **Loc3** means Dual mode controlling loco # 3). By pressing "**Loco**" and then press "**Shift**" you can toggle between the two modes.

STANDARD MODE

This is the traditional DC operational mode to operate a standard, non decoder equipped loco. Before operating a standard DC loco, make sure

"Loco" appears on the screen. If it doesn't, press "Loco" and then "Shift" to switch modes. The throttle knob can then be used like a conventional power pack to control speed, and the direction button to change the direction of the locomotive. To program momentums, press **P** and press **Enter** twice to skip **Adr** and **SV**. **ACC** will prompt you to program acceleration rate. Enter a value from 0-32, with 0 being no momentum on acceleration, and 32 being maximum momentum, and then press **Enter**. Next, **dEC** will prompt you for programming deceleration rate. Enter a value of 0-32 and press **Enter**. And then press **Enter** to exit program mode. Once programmed these rates will be stored in the base until you change them. *Standard Mode can be used for Blue Line locomotives if they do not have a power decoder, but you will not be able to control the sounds.*

DUAL MODE

This is the power and sound control mode to run your train and control the sounds in your decoder equipped loco. Since most decoders are factory default address #3, you should select loco #3 to operate them by pressing "Loco", press "3" and then press "Enter". You should be able to control your loco with the throttle knob and change the loco's direction with the direction key. If it does not respond, press the "SHIFT" key and then press "9, 9". In 5 seconds this will reset your loco to factory default address # 3. 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 through F9, press "3" to "9". To control F10 to F28, press "SHIFT" and then press the desired two digit number.

NOTE: If you plan to use the locomotive with a DCC system, you will need to re-program the loco to its original address using the DCC system after it was used with the Tech 6.

PROGRAMMING YOUR LOCO IN DUAL MODE

You have the ability to run multiple decoder equipped locos on your track at one time. Initial programming of the loco address should be done one loco at a time by following the steps below. Keep a log to remind you which loco is assigned to which address. You will need to know the correct address to do any programming to the loco later on. All programming must be done with the current (or the last) loco. First press "SHIFT, 9, 9" to reset the loco to the default address #3. Operate the loco before performing any programming to ensure it's on address #3. **Note: Locos must be programmed one at a time, remove all other programmed locos from the track before doing this, or else they will all revert back to address #3.**

1. Press "P", **Loc_ Adr** will appear on the screen. If you don't want to change the address press "Enter" to skip this step. If you want to change the address you can enter a number between 1 and 6 and then press "Enter". If you wish to run multiple locos you should program them with different addresses. **Note: Do not enter a number larger than 6. This unit only allows you control up to 6 locos.**
2. Next, **SV** will prompt you for programming Start Voltage. To skip, press "Enter". To program, enter the desired value and press "Enter".
3. Next, **ACC** will prompt you for programming acceleration rate. To skip, press "Enter". To program, enter the desired value and press "Enter".
4. Next, **dEC** will prompt you for programming deceleration rate. To skip, press "Enter". To program, enter the desired value and press "Enter".
5. Next, **CV#** will prompt you for programming a CV. To skip, press "Enter". To program a CV enter the CV number and press "Enter". Then, enter the desired value for the CV and press "Enter". **CV#** will prompt again for programming another CV. To exit the program press "Enter".

Note: Your decoder must have "program on the main/ops mode" capability to perform any programming steps outlined above. Refer to the decoder/loco's instruction manual's CV Chart for range of values that are associated with the CV's inside the loco.

Once you have all your locos programmed to an address, Press the "Loco" button, select an address, press "Enter", then run your loco. You can leave this loco running, and then select another loco to operate at the same time. You can operate up to all 6 addresses at the same time.

RECALL STACK

Whenever you select a loco, the Tech 6 will automatically store the loco into the recall stack for you to recall later. To save the stack for the next session press "Loco" twice. To recall the loco simply press the "Recall" button to scroll through the available loco addresses. To delete the current loco from your stack, press and hold "Del" for 2 seconds, and then press "Loco" twice to save.

EMERGENCY STOP

Press "STOP" to stop the current loco. To stop all locos, press and hold "STOP" for 2 seconds. To restore operation, press and hold "STOP" again for 2 seconds.

UPGRADES

This unit comes with a 15V/10amp DC power supply. If you operate G or N scale and you find the top speed is too low/high, send in the power supply with a \$39.00 check or money order and we will upgrade the power supply for you. We can also upgrade your base unit to 8 amps for an additional cost of \$29.00.

A Wireless Conversion Set (0001212) will also be available. With the wireless conversion you can operate with **two** wireless handhelds, so multiple people to operate on the same layout.

FOR YOUR PROTECTION:

1. Never reverse a locomotive without stopping it first. To do so may damage the locomotive motor or drive train.
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.

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