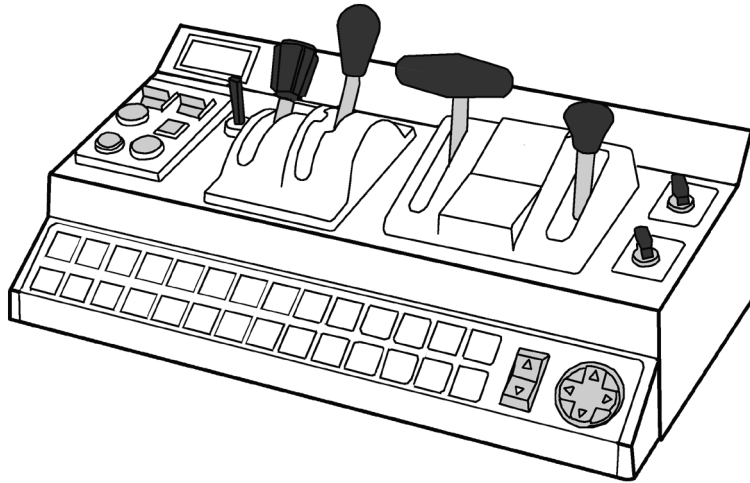




A Division of P.I. Engineering



Desktop Train Cab Controller

Product Manual

RailDriver
a division of
P.I. Engineering
101 Innovation Parkway
Williamston, Michigan 48895-1663

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FAX 517•655•4926
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www.raildriver.com
January, 03



Box Contents:

As you unpack your RailDriver, please check the enclosed items against this packing list:

- ✓ RailDriver Desktop Train Cab Controller
- ✓ RailDriver Installation CD
- ✓ RailDriver Power Supply (AC adapter)
- ✓ RailDriver Label Sheets & Game Button Identification Strips
- ✓ RailDriver Operating Manual

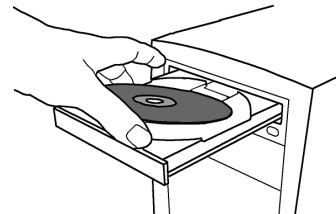
Installing Your RailDriver Desktop in Windows 98 and Me:

IMPORTANT: Do NOT plug the RailDriver USB connection in before installing our software. This procedure may require your Windows installation disk.

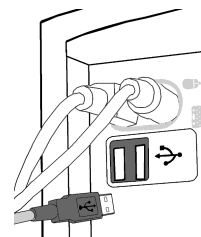
1. Insert the RailDriver CD ROM.

NOTE: If the program does not start automatically, find "rdsetup.exe" on the RailDriver CD and run it.

2. Follow the on-screen directions to install the RailDriver software.
3. Restart Windows when prompted.
4. Remove the RailDriver CD ROM.



5. Shut down Windows and the computer (power off).
6. Plug in the RailDriver's USB connector and turn on the computer.
7. Windows will recognize new hardware and prompt you through the installation.



8. Follow the on-screen instructions.

If Windows asks for drivers from a disk, Browse to the Windows/System folder and click OK. If Windows cannot find the drivers in this folder, you may need to insert your Windows installation disk and find the drivers there.

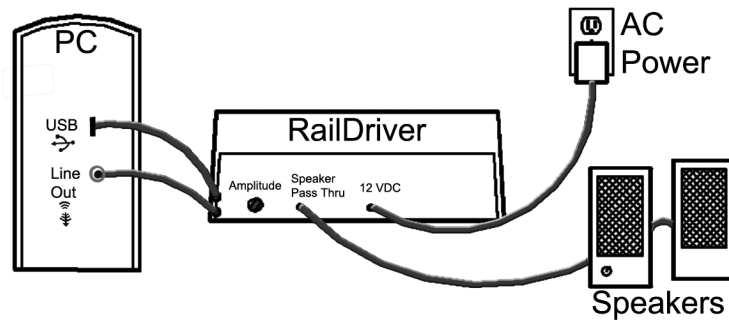
9. Windows will install the required drivers and complete the installation.

Installing Your RailDriver Desktop in Windows 2000, and XP:

Follow steps 1-6 above. When the computer restarts, Windows will recognize new hardware and install it for you.

NOTE: To Install Your RailDriver Desktop with a RailDriver Analog or DCC Control Module, please refer to the instructions included with the control module, or visit our web site (www.raildriver.com) for instructions.

Connecting Sound and Vibration Features on Your RailDriver Desktop:

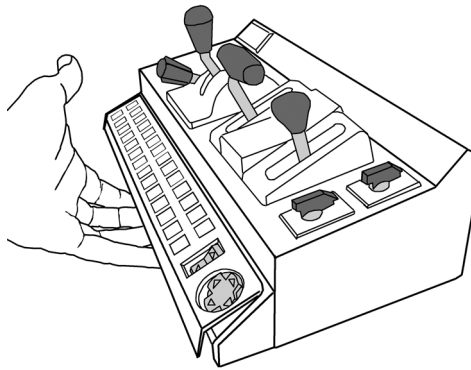


The following steps are required to enable the RailDriver internal sub-woofer. Power and audio connections are not required for operation of the RailDriver controls, but they do enhance the driving experience.

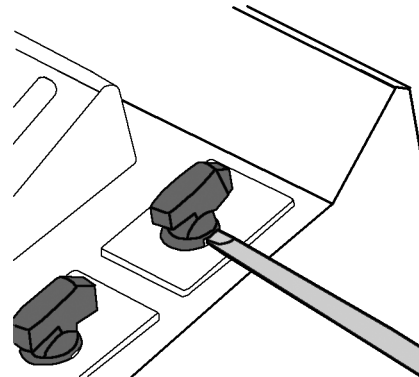
1. Plug the RailDriver Controller into the line out sound port on your computer.
2. Plug the speakers (which were in the sound port) into the RailDriver pass through sound port.
3. Connect the 12 VDC Power Supply.
4. Set the Amplitude control to mid level (adjust setting when RailDriver is running with your train simulation software).

NOTE: The RailDriver Desktop contains a speaker which has been magnetically shielded to prevent color distortion on video displays. Exposing magnetic media (floppy disk, memory stick, or digital tape) to magnetic materials may cause data loss.

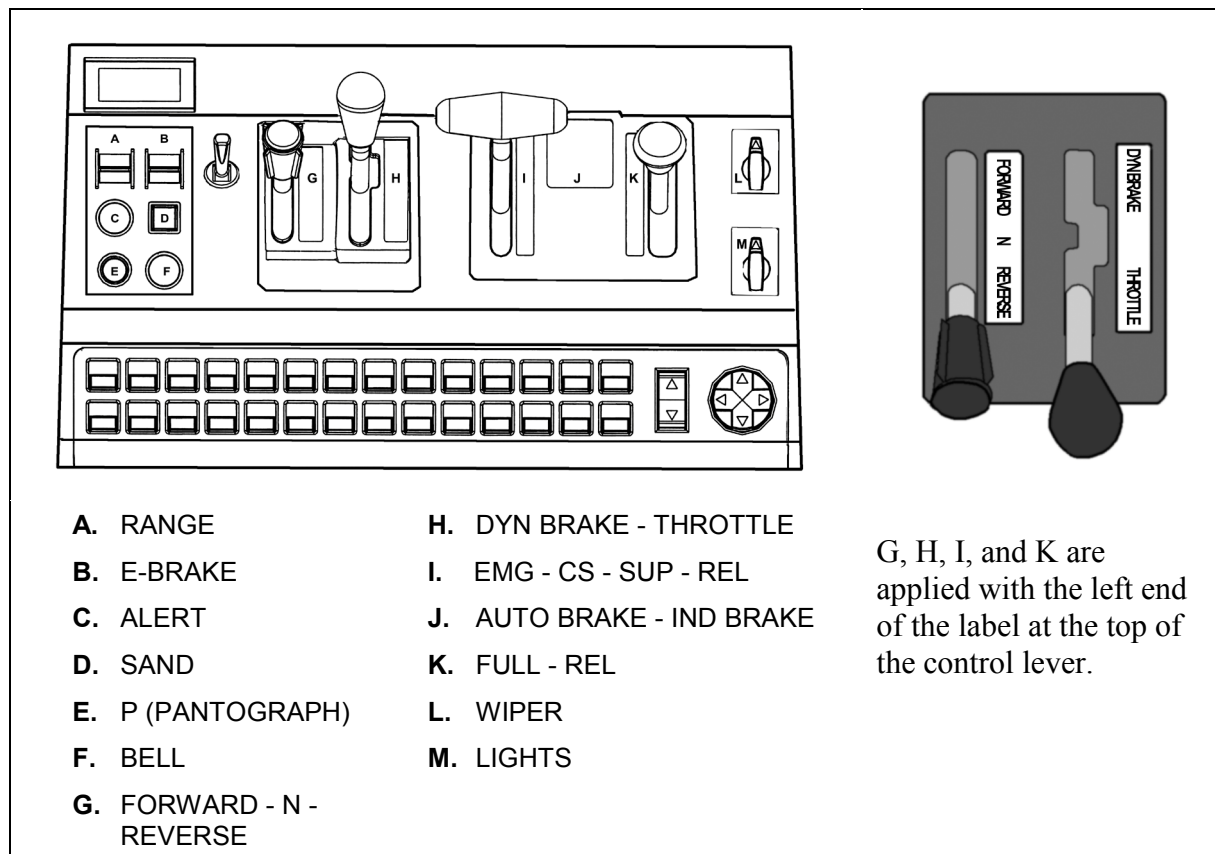
Installing labels for the controls and function keys:



To apply legends for the function keys, pry up carefully, but with force, on the panel cover, place the legend strips above the keys. When placing the default layout strips, the **ESC** button will be the first button in the upper row, and the **RailDriver Run/Stop** button will be the first button in the lower row. Insert the top of the panel cover first, and snap the bottom back into place.



To remove wiper and light switch caps for labeling, insert a thin bladed screwdriver into the slot on either side of the switch and carefully pry up until the switch cap pops off.



Operating your RailDriver Desktop Train Cab Controller:

The rapid evolution of train simulator software applications prohibits us from keeping the most current and relevant instructions in a paper manual. Please see the readme.txt file on the RailDriver installation CD and the "Help" files in our software for the latest notes on operating RailDriver controls, or visit the Technical Support Page on www.raildriver.com

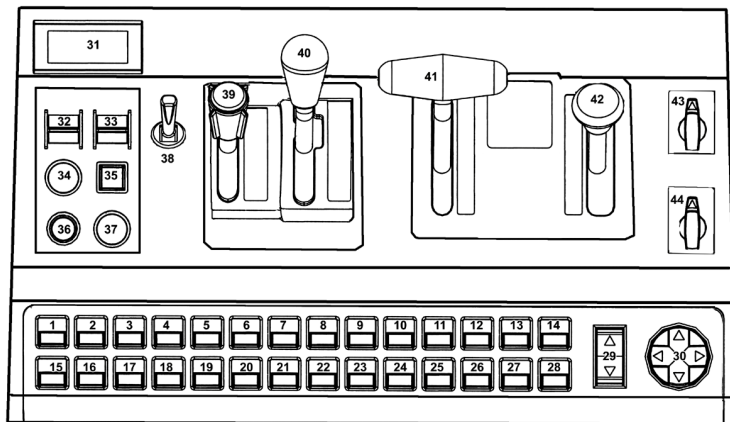
While the RailDriver Desktop control levers and switches most closely resemble the Dash 9 layout, they may be configured to operate any type of engine in most train simulation programs. For details on selecting alternate control layouts or creating your own custom layout, please refer to the Help files in our software, the readme files (on our installation disk), or the Technical Support Page on our web site (www.raildriver.com).

The RailDriver calibration program will start automatically the first time your RailDriver Desktop is plugged in. Reconnecting the controller does not require re-calibration, but replacement of the controller, installation on a new system, or reinstalling the software will require the calibration procedure to get the most accurate response from the RailDriver control levers and switches.

Your computer keyboard and the RailDriver Desktop may be used simultaneously. The "RailDriver Run/Stop" button will start or suspend input from the RailDriver during play.

For troubleshooting, please review the RailDriver help files, the readme files (on our installation disk), check our Technical Support Page (www.raildriver.com). If these steps do not solve your problem, please contact our Technical Support Department.

The Default Control Layout:



1. (1-28) Programmable Game Buttons
29. Zoom/Rocker Button
30. Four Way Panning Control
31. LED Speedometer
32. Gear Shift
33. Emergency Brake
34. Alerter
35. Sander
36. Pantograph
37. Bell
38. Horn/Whistle Lever (operates forward or back)
39. Reverser (center detent, variable forward and reverse)
40. Combined Throttle and Dynamic brake (with "gate" center)
41. Automatic brake, (detent before e-brake)
42. Independent brake (w/right motion for bail-off)
43. Rotary wiper switch
44. Rotary headlight switch

Technical Support:

Should you experience difficulties installing or running the RailDriver Desktop Cab Controller, please contact our Technical Support Department:

Web: www.raildriver.com/rdsupport/tech.htm

E-mail: tech@raildriver.com

Phone: 517-655-5523

Normal staffing hours are M-F 9-5 EST

How to Find Us:

Address: RailDriver, a Division of

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Fax: 517-655-4926

Web: www.raildriver.com

E-mail: Sales Department ➤ info@raildriver.com

Technical Support ➤ tech@raildriver.com

Join our E-mail list and receive product updates and announcements. Send a message with "Join" as the subject to: list@raildriver.com

Other Products from P.I. Engineering:

X-keys[®]

Y-mouse[®]

RailDriver[®]

Visit our web site (www.xkeys.com) for detailed descriptions

X-keys[®] User-programmable keyboards

- *58 key Pro*
- *20 key Desktop*
- *16 key Stick*
- *3 lever Foot Pedal*

X-keys[®] Custom Programmable Input Devices

- *X-keys*[®] Switch Interface
- *X-keys*[®] Controller (with integrated precision joystick)
- *X-keys*[®] Editor (with jog & shuttle control)
- Custom/OEM Products

Y-mouse[®] Splitters & Adapters

- *Y-mouse*[®] Dual Mouse Adapter
- *Y-key key*[®] Dual Keyboard Adapter
- *Y-mouse*[®] Keyboard and Mouse Adapter for USB
- *Y-see two*[®] Video Splitter

Accessories for *X-keys*[®] and *Y-mouse*[®]

- Double and Large, Square Keys
- PS/2 and VGA Extension Cables
- Specialty Switches
- Connection Adapters

RailDriver[®] Add On Modules

- Analog Control Module
- DCC Control Module

RailDriver[®] Cyclopedias on CD ROM

- 1922 Locomotive Cyclopedia
- 1922 Car Builders Cyclopedia
- 1921 Maintenance of Way Cyclopedia

FCC Declaration of Conformity:

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio TV technician for help.

Any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

LIMITED WARRANTY

For all RailDriver products purchased and installed in the United States and Canada, P.I. Engineering warrants that the RailDriver product will be free from defects in materials and workmanship under normal use and service, and will meet the specifications presented by P.I. Engineering at the time of original purchase, for one year as evidenced by a copy of the purchase receipt. Under this warranty, P.I. Engineering will, at its sole option, repair or replace any RailDriver product which is defective, provided that you are responsible for (i) the cost of transportation of the product to P.I. Engineering or its designated service facility, and (ii) any loss or damage to the product resulting from such transportation.

Upon discovery of a defect in the product within the Warranty Period, you should notify P.I. Engineering Technical Support via telephone to obtain an RMA (return authorization number) and instructions for shipping the product to a service location designated by P.I. Engineering. You should send the product, shipping charges prepaid, to the designated location, accompanied by the return authorization number, your name, address, and telephone number, proof of purchase, and a description of the defect. P.I. Engineering will pay for return of product(s) to the customer.

P.I. Engineering shall have no responsibility to repair or replace the RailDriver product if the failure has resulted from accident, abuse, mutilation, misuse, or repair/modification performed by any entity other than P.I. Engineering.

THIS WARRANTY IS EXCLUSIVE OF ALL OTHER WARRANTIES, WHETHER EXPRESSED, IMPLIED, OR STATUTORY. P.I. ENGINEERING DOES NOT WARRANT THIS **RailDriver** PRODUCT FOR FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY. P.I. ENGINEERING AND ITS EMPLOYEES SHALL NOT BE HELD LIABLE FOR ANY CONSEQUENTIAL, INDIRECT, OR INCIDENTAL DAMAGES, EVEN IF ADVISED OF THEIR POSSIBILITY, ARISING OUT OF THE USE OR INABILITY TO USE THIS PRODUCT. SOME STATES DO NOT ALLOW FOR THE EXCLUSION OR LIMITATION OF CERTAIN LIABILITIES, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER LEGAL RIGHTS WHICH VARY FROM STATE TO STATE.

In the event that the above limitations are held unenforceable, P.I. Engineering's liability for any damages to you or to any party shall not exceed the purchase price you paid, regardless of the form of any claim.

This limited warranty is valid for and only applies to products purchased and used inside the United States (and its territories) and Canada.

This limited warranty is governed by the laws of the United States of America and the state of Michigan.

RailDriver Electronic design: P.I. Engineering, Inc., Williamston, Michigan

Patent Pending

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