

# Prodigy® RF

## Electronic Brake Control

### For 2, 4 and 6 brake applications

#### READ THIS FIRST:

Read and follow all instructions carefully before installing or operating the Prodigy RF. Keep these instructions with the Brake Control for future reference.

#### Components of Prodigy RF



- A. Power Switch
- B. Boost Button
- C. Manual Override
- D. Display
- E. Connector to Auxiliary Power Port
- F. Remote Hand Held Unit
- G. Trailer Mount Power Module

#### Important Facts to Remember

- WARNING** The Prodigy RF may operate with reduced performance if the Remote Hand Held Unit is returned or disconnected while the trailer is in use.
- Do not reset or activate RF generating from coil plunges, two way radio or any (less than 12") to the Hand Held Unit or Power Module.
- The Prodigy RF employs an inertial sensor. It senses deceleration and generates an output that is based on deceleration, thus the term "Proportional Braking".
- The Prodigy RF will "HOLD" your trailer with 25% of power setting while you are at a standstill with brake pedal applied for longer than 5-7 seconds.
- The Prodigy RF will brake proportionally to errors. It will apply the appropriate brake voltage based on deceleration.
- WARNING** The Gross Combined Weight Rating (GCWR) must never exceed the vehicle manufacturer's recommendations.
- CAUTION** This control is not designed for use with electric-hydraulic trailer brake systems.
- CAUTION** Do not exchange or imitate Prodigy RF in use.
- For Technical Assistance and Warranty Information call: 1-888-782-5872 or [www.idemco.com](http://www.idemco.com).

#### Installation Guide

##### Trailer Mount Power Module

###### Mounting Instructions

- WARNING** The Prodigy RF Power Module must be securely mounted to the trailer frame. Failure to install the Power Module within these constraints may cause impaired performance.

The Power Module can be mounted to any suitable surface on the trailer frame. The module cover should be approximately level, within  $\pm 1^\circ$ , and above the trailer frame rail. Preferred mounting location is on the side of the trailer frame rail with the 3 foot cable towards the tow vehicle.



- Select a location so that the Power Module's cover is in the UP direction.
- Use the four 1/8" x 14 x 1-1/4" self-drilling screws (provided) to drill into the trailer frame. Torque screws according to Power Module. Tamper Resistant Washer Head Screws may be used for added security.
- Secure the remote 1-Way tow vehicle and trailer wiring.
- CAUTION** Use of different screws may damage the Power Module, or may not provide sufficient mounting.
- CAUTION** Do not mount in a concealed location, or inside a metal part of the trailer. Do not place inside a utility bay mounted on the trailer.
- CAUTION** Do not mount in a location that will interfere with a load equalizing hitch.

##### Connecting Power Module

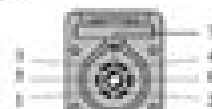
Your Prodigy RF Power Module has a modified Baymouth 1-Way cable that will plug into the tow vehicle. Refer to Wiring Diagram for location of pins and functions. When all connections are made, this connection supplies all power and signals to both the Power Module and to the trailer. The trailer 1-Way cable is connected directly to the 1-Way connector on the rear of the Power Module. There is no additional wiring necessary on the trailer.

- WARNING** Tow vehicle Must be Capable of providing 12V @ 20A for Electric Brake Applications. Up to 4 brakes (2 axles).
- CAUTION** The Battery Charge to the trailer may be temporarily disconnected (approximately 1 minute) during braking if the total current to the Trailer (Battery Charge and Electric Brake) exceeds 20 Amps. This allows for full brake power without exceeding the tow vehicle's wiring capacity.

**NOTE:** Some factory wired tow vehicles disconnect the Battery Charge output in the 1-Way connector when the ignition is turned off. This will turn off the Power Module and the Hand Held Unit will display "n.c."



##### Wiring Diagram



Pin No.	Function
1	Common Ground
2	Electric Brake
3	Hot & Lockout
4	Battery Charge
5	Left Stop & Turn
6	Right Stop & Turn
7	Chassis Auxiliary

##### Remote Hand Held Unit

Plug the Hand Held Unit into any suitable 12V Auxiliary Power Port in the vehicle.

- Remote Hand Held Unit must be within easy reach of the operator.
- Do NOT operate with the Remote Hand Held Unit disconnected.

##### Automatic Leveling of the Sensor

The Prodigy RF will automatically acquire the proper level setting of the tow vehicle and trailer combination during the pairing operation.

##### Pairing Instructions

Synchronization of the Remote Hand Held Unit to the Power Module:

- Connect trailer to tow vehicle.
- Plug the Power Module 1-Way cable into the tow vehicle.
- Trailer's 1-Way connector must be disconnected from the Power Module.
- Start vehicle's engine. (Some vehicles require Key On to supply power to the 1-Way connector or Auxiliary Power Port).
- Plug the Remote Hand Held Unit into an auxiliary power source within easy reach of the operator.
- Turn the Power Switch to minimum position, Flashing 0.0.



- Turn the Power Switch to the MANUAL, OVERRIDE and BOOST BUTTON. The display will now show P.S. and end in P.A.



Once P.A. has been achieved, the Manual and Boost can be released.

- Press and hold the brake pedal until the display shows Flashing 0.0 for a correct pairing.



- Set the Power Switch to greater than minimum. Display now flashes n.c. (not connected).



- Re-connect the Trailer 1-Way connector to the Power Module. Display should now be n.c. (connected).



**NOTE:** To properly identify your trailer during pairing, the 1-Way trailer plug must be disconnected from the Power Module.

**Display Readings after Connecting the Prodigy RF**  
Once the units are connected and successfully paired, you should see the following on the two digit display:



- Initial Power to the Hand Held, without pairing or Power Module not powered on
- Paired, but Trailer is not connected to Power Module.

- Power to the Prodigy RF is not connected and features not engaged.



- Manual Override activated without trailer connected.



- Manual Override activated (with trailer), 5.4 denotes a hypothetical power output. This value is set using the power knob. Range is 0.0 to 1.0 volts. This is an indication of vehicle output to electric brakes.



- Display will be blank during power saving mode (no motion or braking activity for at least 2 hours)



# Prodigy Brake Controller Instructions

**Didier Musso**



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## **Table of Contents Prodigy Brake Controller Instructions**

1. Understanding the eBook Prodigy Brake Controller Instructions
  - The Rise of Digital Reading Prodigy Brake Controller Instructions
  - Advantages of eBooks Over Traditional Books
2. Identifying Prodigy Brake Controller Instructions
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Prodigy Brake Controller Instructions
  - User-Friendly Interface
4. Exploring eBook Recommendations from Prodigy Brake Controller Instructions
  - Personalized Recommendations
  - Prodigy Brake Controller Instructions User Reviews and Ratings
  - Prodigy Brake Controller Instructions and Bestseller Lists

5. Accessing Prodigy Brake Controller Instructions Free and Paid eBooks
  - Prodigy Brake Controller Instructions Public Domain eBooks
  - Prodigy Brake Controller Instructions eBook Subscription Services
  - Prodigy Brake Controller Instructions Budget-Friendly Options
6. Navigating Prodigy Brake Controller Instructions eBook Formats
  - ePub, PDF, MOBI, and More
  - Prodigy Brake Controller Instructions Compatibility with Devices
  - Prodigy Brake Controller Instructions Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Prodigy Brake Controller Instructions
  - Highlighting and Note-Taking Prodigy Brake Controller Instructions
  - Interactive Elements Prodigy Brake Controller Instructions
8. Staying Engaged with Prodigy Brake Controller Instructions
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Prodigy Brake Controller Instructions
9. Balancing eBooks and Physical Books Prodigy Brake Controller Instructions
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Prodigy Brake Controller Instructions
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Prodigy Brake Controller Instructions
  - Setting Reading Goals Prodigy Brake Controller Instructions
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Prodigy Brake Controller Instructions
  - Fact-Checking eBook Content of Prodigy Brake Controller Instructions
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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