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› dertgmlm 48V 350A Motor Controller 1266R-5351 User Manual

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Model: 1266R-5351

Important: Read this manual thoroughly before installation and operation.

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of the dertgmlm 48V 350A Motor Controller, specifically model 1266R-5351. This controller is designed for compatibility with various Curtis Golf Cart systems, including models 1510AS-5350, 1510-5201, and 1510A-5250. Proper understanding and adherence to these instructions are crucial for safe and efficient performance of the motor controller.

2. PRODUCT OVERVIEW

The dertgmlm 48V 350A Motor Controller is a robust electronic device engineered to manage the speed and direction of electric motors in golf carts and similar applications. It features a 48V rated voltage and a 350A current rating, ensuring reliable power delivery. The controller is designed for seamless integration with compatible systems.



Figure 2.1: Top view of the dertgmlm 48V 350A Motor Controller (Model 1266R-5351). The label clearly displays "D.C. MOTOR CONTROLLER", "Part Number: 390215351", "VOLTAGE: 36-48V", "CURRENT: 350A", "MODEL: 1266R-5351", and "Serial Number: 21240C.054166".



Figure 2.2: Angled view of the dertgmlm Motor Controller (Model 1266R-5351), highlighting the main power terminals and the label. This perspective shows the robust construction and connection points.



Figure 2.3: Top view of a compatible dertgmlm 48V 350A Motor Controller (Model 1510AS-5350). The label indicates "Model Number: 1510AS-5350", "Serial Number: 23018C.00000015", "VOLTAGE: 48V", and "CURRENT: 350A". This illustrates the appearance of a compatible unit.

3. SPECIFICATIONS

Feature	Specification
Part Name	Motor Controller
Part Numbers	1266R-5351, 1510AS-5350, 1510-5201, 1510A-5250
Rated Voltage	48V
Current Rating	350A
Compatibility	Curtis Golf Cart systems
Package Dimensions	9 x 5.51 x 3.54 inches
Item Weight	3.39 pounds
Manufacturer	dertgmlm
UPC	763704405785

4. IMPORTANT SAFETY INFORMATION

- Always disconnect the battery pack before performing any installation, maintenance, or repair work on the motor controller or associated electrical components.
- Ensure proper grounding to prevent electrical shock.
- Wear appropriate personal protective equipment (PPE), including safety glasses and insulated gloves, when

working with electrical systems.

- Do not attempt to open or modify the motor controller. Doing so may void the warranty and could lead to malfunction or injury.
- Verify that the voltage and current ratings of the controller match the requirements of your golf cart system.
- Keep the controller away from water, excessive heat, and corrosive substances.
- If you are unsure about any installation or troubleshooting steps, consult a qualified technician.

5. INSTALLATION GUIDE

Proper installation is critical for the safe and efficient operation of your motor controller. Follow these steps carefully:

1. Preparation:

- Ensure the golf cart is turned off and the key is removed.
- Disconnect the main battery pack by removing the negative terminal first.
- Identify the location of the existing motor controller.

2. Removal of Old Controller (if applicable):

- Carefully label all wires connected to the old controller before disconnecting them. Take photos for reference.
- Disconnect all power cables, motor cables, and control wiring.
- Unmount the old controller from its position.

3. Mounting the New Controller:

- Mount the dertgmlm motor controller in the same location as the previous unit, ensuring it is securely fastened.
- Ensure adequate ventilation around the controller to prevent overheating.

4. Wiring Connections:

- Connect the main battery cables (B+ and B-) to the corresponding terminals on the controller. Ensure correct polarity.
- Connect the motor cables (M+, M-) to the motor terminals.
- Connect the control wiring (throttle, solenoid, etc.) according to the golf cart's wiring diagram. Refer to your golf cart's specific service manual for detailed wiring schematics.
- Double-check all connections for tightness and correct placement. Loose connections can cause arcing and damage.

5. Final Checks:

- Visually inspect all wiring to ensure no wires are pinched or exposed.
- Reconnect the main battery pack, connecting the positive terminal first, then the negative.
- Turn the golf cart key to the ON position and perform initial tests.

Note: This controller is compatible with Curtis Golf Cart systems. Specific wiring configurations may vary by golf cart model. Always consult the golf cart's original wiring diagram.

6. OPERATING INSTRUCTIONS

Once installed correctly, the dertgmlm motor controller operates in conjunction with your golf cart's existing control

system. No direct user interaction with the controller itself is typically required during normal operation.

- **Power On:** Turn the golf cart's key switch to the ON position. The controller will initialize.
- **Acceleration:** Depress the accelerator pedal to engage the motor. The controller will regulate power to the motor based on pedal input.
- **Braking:** Release the accelerator pedal to allow for regenerative braking (if supported by your golf cart system) or apply the mechanical brakes.
- **Direction Control:** Use the forward/reverse switch on your golf cart to change the direction of travel. The controller will adjust motor polarity accordingly.
- **Power Off:** Turn the golf cart's key switch to the OFF position when not in use.

Ensure that the golf cart is operated within its intended parameters and avoid sudden, aggressive acceleration or braking to prolong the life of the motor and controller.

7. MAINTENANCE

The dertgmlm motor controller is designed for durability and requires minimal maintenance. However, periodic checks can help ensure its longevity and optimal performance.

- **Visual Inspection:** Periodically inspect the controller for any signs of physical damage, corrosion, or loose connections.
- **Cleaning:** Keep the controller free from dust, dirt, and debris. Use a soft, dry cloth to wipe the exterior. Do not use harsh chemicals or solvents.
- **Connection Checks:** Ensure all electrical connections (power cables, motor cables, control wires) remain tight and secure. Loose connections can generate heat and cause damage.
- **Ventilation:** Verify that the area around the controller remains clear to allow for proper airflow and heat dissipation.
- **Battery Health:** Maintain your golf cart's batteries in good condition. Poor battery health can stress the motor controller.

Note: Do not attempt to service internal components of the controller. Refer to qualified personnel for any internal repairs.

8. TROUBLESHOOTING

This section provides guidance for common issues you might encounter. For complex problems, consult a qualified technician.

Problem	Possible Cause	Solution
Golf cart does not move	<ul style="list-style-type: none">◦ Low battery charge◦ Loose battery or motor connections◦ Faulty key switch or forward/reverse switch◦ Controller error	<ul style="list-style-type: none">◦ Check battery voltage and charge if necessary.◦ Inspect and tighten all power connections.◦ Test switches for continuity.◦ Consult a technician for controller diagnostics.

Problem	Possible Cause	Solution
Erratic speed control	<ul style="list-style-type: none"> ◦ Faulty throttle position sensor ◦ Loose control wiring ◦ Interference 	<ul style="list-style-type: none"> ◦ Inspect and test the throttle sensor. ◦ Check and secure all control wiring connections. ◦ Ensure no external electrical interference.
Controller gets excessively hot	<ul style="list-style-type: none"> ◦ Overload condition ◦ Poor ventilation ◦ Loose power connections 	<ul style="list-style-type: none"> ◦ Reduce load on the golf cart. ◦ Ensure adequate airflow around the controller. ◦ Tighten all power cable connections.

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the manufacturer's official website or contact your point of purchase. Keep your purchase receipt and product serial number (e.g., 21240C.054166 or 23018C.00000015) readily available when contacting support.

Manufacturer: **dertgmlm**

For additional assistance, you may visit the [dertgmlm brand page on Amazon](#).