

OPTIMA 9020-164

OPTIMA 35 RedTop Sealed AGM Starting Battery Instruction Manual

Model: 9020-164

1. PRODUCT OVERVIEW

The OPTIMA 35 RedTop battery is engineered to deliver high power cranking ability, even in challenging weather conditions. Its leak-proof design and robust starting capability make it suitable for demanding applications. The unique SpiralCell design provides a strong and clean power source, offering enhanced safety and environmental benefits. A higher reserve capacity contributes to a longer shelf-life, ensuring power availability when needed. This battery is maintenance-free for maximum convenience and is completely non-spillable, allowing for versatile mounting in various positions.



Figure 1: OPTIMA 35 RedTop Battery, front view.

Key Features:

- **Battery Specifications:** 12-Volt, 720 Cold Cranking Amps (CCA), Size: 9.38" Long x 6.75" Wide x 7.69" Tall, Weight: 31.7 pounds, SAE Post Terminals, C20 Capacity: 44 AH.
- **Reserve Capacity:** 90 minutes for consistent performance and faster charging capabilities.
- **SpiralCell Technology:** Features 99.99% pure lead, delivering more power and consistently outperforming conventional flat-plate batteries. Provides optimal starting power even in adverse weather.
- **Durability:** Fifteen times more resistant to vibration than standard flooded batteries, contributing to durability and up to 3 times longer life compared to standard flooded batteries.
- **Maintenance-Free:** Designed for maximum convenience, ideal for basic electrical demands.

Video 1: OPTIMA Batteries Product Overview. This video provides a general overview of OPTIMA battery technology and benefits.

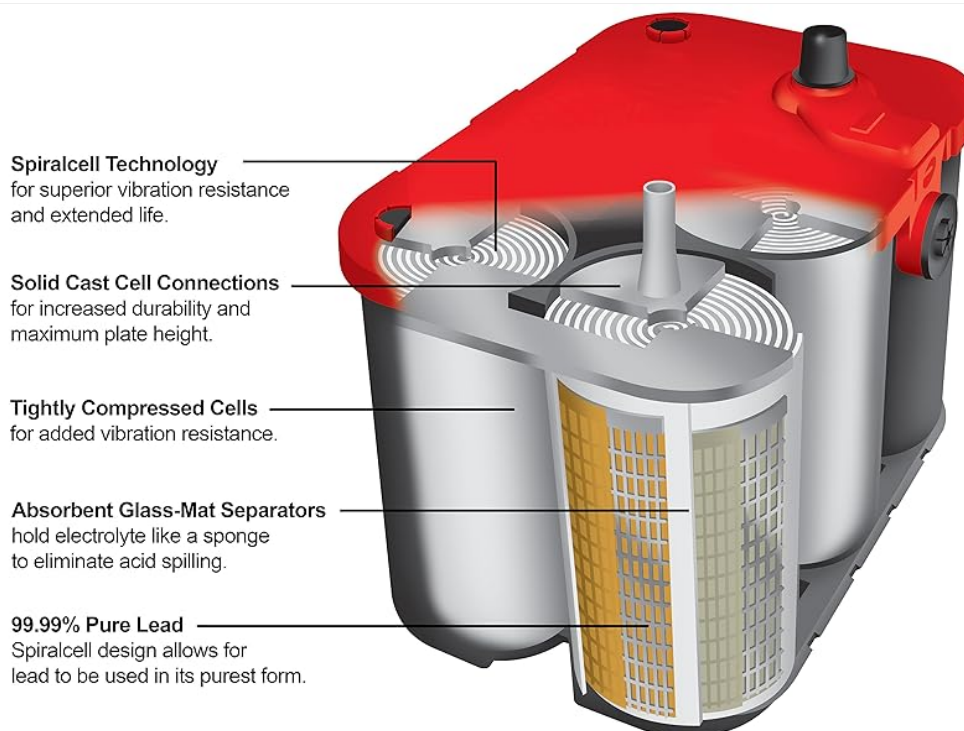


Figure 2: Visual representation of OPTIMA battery features, highlighting 15x more vibration resistance, meeting high electrical demands, and 3x longer life.



Figure 3: Detailed cutaway view of the OPTIMA battery's internal SpiralCell Technology, showing pure lead plates, glass-mat separators, and solid cast connections.

2. SAFETY INFORMATION

Always prioritize safety when handling batteries. Batteries contain sulfuric acid, which can cause severe burns. They also produce explosive gases. Follow these precautions:

- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure adequate ventilation when working with batteries.
- Keep sparks, flames, and smoking materials away from the battery.
- Avoid contact with battery acid. If contact occurs, flush immediately with water and seek medical attention.
- Do not short-circuit battery terminals.

3. INSTALLATION

Proper installation is crucial for optimal performance and safety. Refer to your vehicle's owner's manual for specific instructions and safety warnings before proceeding.

Battery Replacement Steps:

1. **Preparation:** Ensure the vehicle's ignition is off and all accessories are disconnected. Wear safety glasses and gloves.
2. **Disconnect Negative Terminal:** Locate the negative (-) battery terminal. Using an appropriate wrench, loosen the nut on the negative terminal clamp. Remove the negative cable and secure it away from the battery to prevent accidental contact.
3. **Disconnect Positive Terminal:** Locate the positive (+) battery terminal. Loosen the nut on the positive terminal clamp. Remove the positive cable and secure it away from the battery.
4. **Remove Old Battery:** Disconnect any battery hold-down clamps or straps. Carefully lift and remove the old battery from the vehicle. Be aware of its weight.
5. **Clean Battery Tray:** Inspect and clean the battery tray and terminal clamps to remove any corrosion or debris.
6. **Install New Battery:** Carefully place the OPTIMA 35 RedTop battery into the battery tray. Ensure it is seated securely.
7. **Secure Battery:** Reinstall and tighten the battery hold-down clamps or straps to prevent movement.
8. **Connect Positive Terminal:** Reconnect the positive (+) cable to the positive terminal. Tighten the clamp securely.
9. **Connect Negative Terminal:** Reconnect the negative (-) cable to the negative terminal. Tighten the clamp securely.
10. **Final Check:** Verify all connections are tight and secure. Ensure no tools or loose items are left in the engine compartment.



TESTED. TRUSTED.



CLASSIC CARS



GENERAL
AUTOMOTIVE



AGRICULTURE

Figure 4: OPTIMA 35 RedTop Battery with dimensions for fitment reference.

4. OPERATION

The OPTIMA 35 RedTop battery is designed as a starting battery, providing a powerful burst of energy to start your vehicle's engine. Its advanced design ensures reliable starts even in challenging conditions.

Key Operational Characteristics:

- **High Cranking Power:** Delivers strong starting power for cars, trucks, and SUVs.
- **Fast Recharging:** Capable of faster recharging compared to standard flooded batteries.
- **Consistent Performance:** Maintains high voltage longer during discharge, ensuring consistent power delivery.

5. MAINTENANCE

The OPTIMA 35 RedTop battery is a sealed AGM (Absorbed Glass Mat) battery, making it maintenance-free. This means there is no need to add water or perform routine electrolyte checks.

Maintenance Guidelines:

- **Cleaning:** Keep the battery terminals and top clean and free of corrosion. Use a mixture of baking soda and water to clean terminals if necessary, then rinse with clean water and dry thoroughly.
- **Terminal Connections:** Periodically check that terminal connections remain tight and secure.
- **Charging:** If the vehicle is stored for extended periods or used infrequently, consider using a compatible battery maintainer to keep the battery fully charged.
- **Vibration:** The battery is designed with high vibration resistance, but ensure it is always securely mounted to minimize excessive movement.

Video 2: OPTIMA Batteries High Performance Overview. This video highlights the performance aspects and durability of OPTIMA batteries.

6. TROUBLESHOOTING

If you experience issues with your OPTIMA 35 RedTop battery, consider the following general troubleshooting steps:

- **No Start/Slow Crank:** Check all battery cable connections to ensure they are clean, tight, and free of corrosion. Verify the battery's state of charge using a voltmeter. A fully charged 12-volt battery should read approximately 12.6-12.8 volts.
- **Accessory Malfunction:** Ensure the battery is adequately charged and connections are secure. Check vehicle fuses related to the malfunctioning accessories.
- **Battery Not Holding Charge:** Confirm the vehicle's charging system (alternator) is functioning correctly. If the charging system is fine, the battery may require professional testing or replacement.

For persistent issues, it is recommended to consult a qualified automotive technician or OPTIMA Batteries customer support.

7. SPECIFICATIONS

Specification	Value
Brand	OPTIMA
Model	9020-164
Item Model Number	9020-164

Specification	Value
Manufacturer Part Number	8020-164
Voltage	12-Volt
Cold Cranking Amps (CCA)	720 CCA
C20 Capacity	44 AH
Reserve Capacity	90 minutes
Terminal Type	SAE Post Terminal
Product Dimensions (D x W x H)	6.75"D x 9.38"W x 7.69"H
Item Weight	31.7 pounds
Exterior	Heavy duty plastic
UPC	721112819730
Global Trade Identification Number	00811405001642



8. WARRANTY AND SUPPORT



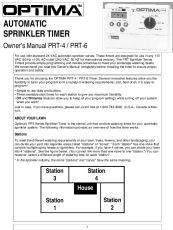

For warranty information, product support, or technical assistance, please refer to the official OPTIMA Batteries website or contact their customer service directly. Keep your purchase receipt as proof of purchase.

Manufacturer: Optima Batteries

Visit the OPTIMA Store: [OPTIMA Store on Amazon](#)

Related Documents - 9020-164

	<p>OPTIMA D200+ 12V Performance Maintainer User Guide</p> <p>Comprehensive user guide for the OPTIMA D200+ 12V Performance Maintainer and 2 Amp Hypercore Lithium Charger. Covers features, safety, operation, installation, troubleshooting, and technical specifications for 12V batteries including Lithium LiFePO4, AGM, and Flooded Lead-Acid types.</p>
	<p>OPTIMA D200+ 12V Performance Maintainer User Guide</p> <p>Comprehensive user guide for the OPTIMA D200+ 12V Performance Maintainer and 2 Amp HyperCore Lithium Charger. Covers safety instructions, product features, operation, installation, troubleshooting, and technical specifications.</p>

<div data-bbox="145 118 284 208"></div> <div data-bbox="140 306 280 320"><p>INSTALLATION MANUAL</p></div>	<div data-bbox="341 250 935 280">Optima Fire Alarm Control Panel Installation Manual</div> <div data-bbox="341 291 1404 398"><p>Comprehensive installation manual for the Optima Fire Alarm Control Panel (FACP), detailing wiring, configuration, mounting, and troubleshooting. Complies with EN54 and BS:EN 5839 standards.</p></div>
<div data-bbox="116 600 311 696"></div>	<div data-bbox="341 600 1016 629">OPTIMA D26AT User Manual: Storage and Disposal Guide</div> <div data-bbox="341 640 1375 710"><p>Concise guide on storing and disposing of OPTIMA D26AT rechargeable devices, covering temperature, humidity, charging, and WEEE directive compliance.</p></div>
<div data-bbox="127 759 300 987"></div>	<div data-bbox="341 819 1096 848">Optima Automatic Sprinkler Timer PRT-4 / PRT-6 Owner's Manual</div> <div data-bbox="341 860 1423 929"><p>Owner's manual for the Optima Automatic Sprinkler Timer PRT-4 / PRT-6, detailing installation, programming, and maintenance.</p></div>
<div data-bbox="148 1097 279 1149"><p>MEDENCE HŐSZIVATTYÚ OPTIMA INVERTER PLUS</p></div> <div data-bbox="148 1137 279 1149"><p>Beüzemelési és használati útmutató</p></div> <div data-bbox="271 1252 295 1270"></div>	<div data-bbox="341 1104 1110 1133">Optima Inverter Plus Pool Heat Pump: Installation and User Manual</div> <div data-bbox="341 1144 1444 1252"><p>This document is the installation and user manual for the Optima Inverter Plus pool heat pump. It covers technical specifications, installation procedures, operation, maintenance, troubleshooting, and safety guidelines.</p></div>