ACDelco 336-2213

ACDelco Gold 336-2213 Starter, Remanufactured

Model: 336-2213 | Brand: ACDelco

Introduction

This manual provides essential information regarding the ACDelco Gold 336-2213 Remanufactured Starter. ACDelco's Professional Remanufactured Starters are designed as high-quality replacements for various vehicles. The remanufacturing process involves disassembling existing units, replacing worn components with new ones, and rigorous testing to ensure performance meets ACDelco specifications. This practice contributes to sustainability by returning components to service. These starters are engineered to deliver the expected performance, durability, and service life associated with ACDelco products.

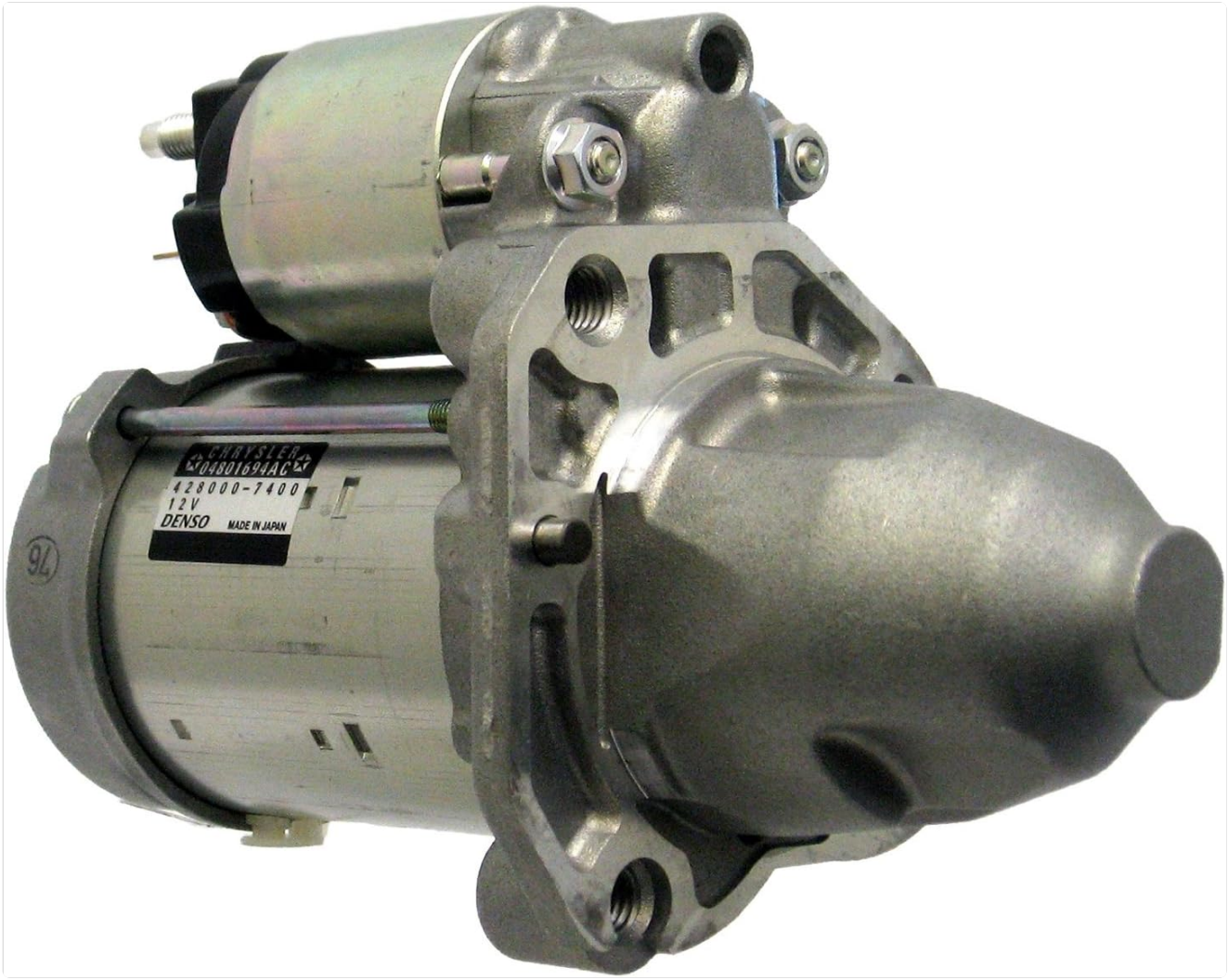


Image: Side view of the ACDelco Gold 336-2213 Remanufactured Starter, showing the main housing and solenoid.

Product Features

- **Remanufactured Quality:** Produced using consistent quality processes, ensuring reliability and performance.
- **Enhanced Bushings:** Features new bronze sintered and oil-impregnated armature bushings for smooth operation.
- **Durable Solenoid Contacts:** Equipped with new solenoid contacts, copper terminals, and plated hardware for longevity.
- **Performance Tested:** Each unit is performance-tested and inspected to meet quality design and component specifications.

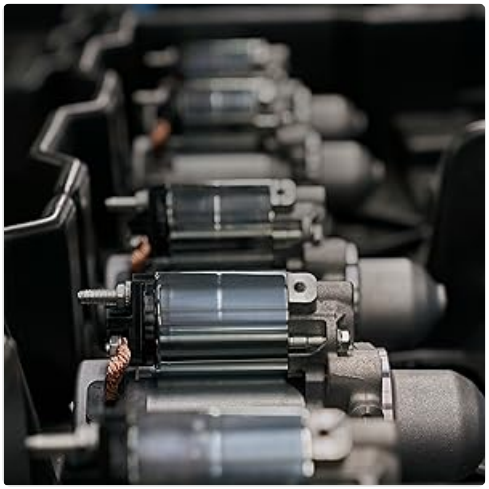


Image: A row of ACDelco starter motors, illustrating the manufacturing or remanufacturing process and quality control.

Components Included

The package for the ACDelco Gold 336-2213 Starter typically includes the following:

- One (1) ACDelco Gold 336-2213 Remanufactured Starter Motor.

Safety Information

Working with automotive electrical systems and heavy components requires adherence to safety protocols. Failure to follow these guidelines may result in injury or damage to the vehicle.

- **Disconnect Battery:** Always disconnect the vehicle's negative battery terminal before beginning any work on the electrical system to prevent accidental starting or electrical shock.
- **Wear Protective Gear:** Use safety glasses, gloves, and appropriate clothing to protect against sparks, hot components, and sharp edges.
- **Secure Vehicle:** Ensure the vehicle is properly supported on jack stands on a level surface before working underneath it.
- **Consult Service Manual:** Refer to your vehicle's specific service manual for detailed instructions and torque specifications relevant to starter replacement.
- **Handle with Care:** Starters can be heavy. Use proper lifting techniques or seek assistance to avoid injury.

Installation/Setup

Installation of an automotive starter typically involves working with electrical connections and mechanical fasteners. It is recommended that this procedure be performed by a qualified automotive technician. The following is a general overview and not a substitute for a vehicle-specific service manual.

1. **Preparation:** Ensure the vehicle is off, the parking brake is engaged, and the negative battery cable is disconnected. Allow the engine to cool if it has been recently operated.
2. **Locate Starter:** Identify the starter motor's location, typically on the engine block near the transmission.
3. **Disconnect Wiring:** Carefully disconnect the main battery cable and the solenoid activation wire from the old starter. Note their positions for reinstallation.
4. **Remove Mounting Bolts:** Unbolt the old starter from the engine block or transmission housing. Support the starter as bolts are removed to prevent it from falling.
5. **Remove Old Starter:** Carefully maneuver and remove the old starter from the vehicle.
6. **Install New Starter:** Position the new ACDelco Gold 336-2213 starter in place. Secure it with the mounting bolts, tightening them to the vehicle manufacturer's specified torque.
7. **Connect Wiring:** Reconnect the solenoid activation wire and the main battery cable to the new starter. Ensure all connections are clean and tight.
8. **Final Steps:** Reconnect the negative battery cable. Verify all tools are removed from the engine bay.
9. **Test Operation:** Attempt to start the vehicle to confirm proper starter function.

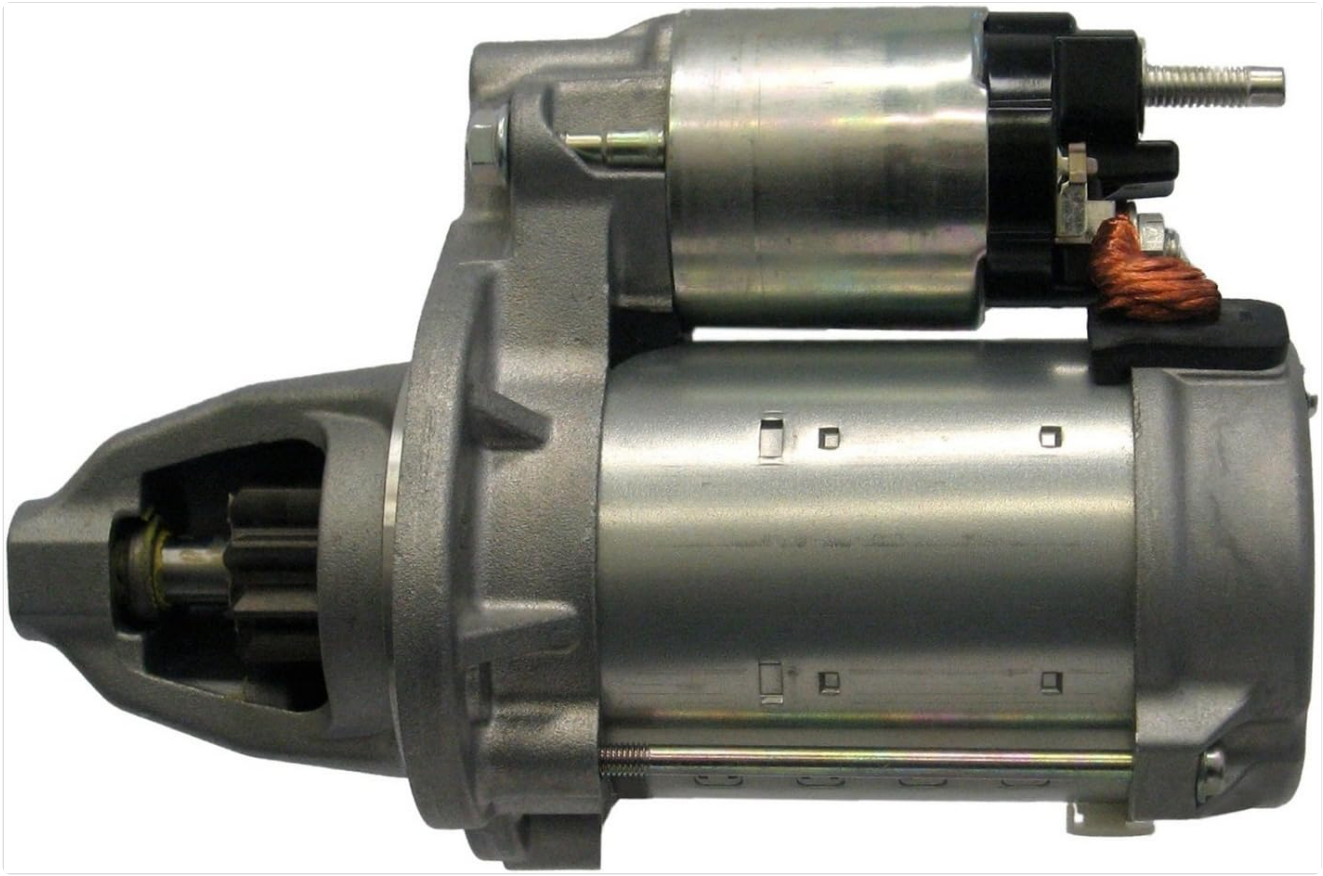


Image: Side view of the starter motor, highlighting the Bendix drive gear which engages with the engine's flywheel during starting.

Operating Principles

The starter motor is a critical component in a vehicle's starting system. When the ignition key is turned to the "start" position, electrical current flows from the battery to the starter solenoid. The solenoid performs two main functions:

- **Engaging the Drive Gear:** It pushes a small gear, known as the Bendix drive or pinion gear, forward to engage with the larger ring gear on the engine's flywheel.
- **Supplying Power to Motor:** Simultaneously, it closes a high-current switch, allowing a large amount of electrical current to flow directly to the starter motor.

The starter motor then rapidly spins the engine's flywheel, turning the crankshaft and initiating the combustion process. Once the engine starts, the Bendix drive disengages from the flywheel to prevent damage to the starter motor from the rapidly spinning engine.



Image: A detailed view of the starter's Bendix drive gear, which extends to engage the engine's flywheel.

Maintenance

The ACDelco Gold 336-2213 Remanufactured Starter is designed for durability and minimal maintenance. However, periodic checks of the vehicle's starting system can help ensure its longevity and reliable operation.

- **Battery Condition:** Ensure the vehicle's battery is in good condition and fully charged. A weak battery can strain the starter.
- **Cable Connections:** Periodically inspect battery cables and starter connections for corrosion, looseness, or damage. Clean and tighten as necessary.
- **Engine Condition:** A well-maintained engine that starts easily reduces the workload on the starter. Address any engine issues that cause hard starting.
- **Avoid Excessive Cranking:** Do not crank the engine for extended periods (more than 10-15 seconds) without allowing the starter to cool down. Excessive cranking can overheat and damage the starter.

Troubleshooting

If you experience issues with your vehicle's starting system, consider the following common troubleshooting steps. Always ensure safety precautions are followed.

Symptom	Possible Cause	Action
Starter clicks but engine does not crank.	Weak battery, loose or corroded battery cables, faulty starter solenoid.	Check battery charge and terminals. Inspect and clean battery and starter cable connections. Test battery and starter.
Starter cranks slowly.	Low battery charge, excessive resistance in battery cables, internal starter motor issue.	Charge or replace battery. Inspect battery and starter cables for damage or corrosion. Have starter motor tested.
Starter spins but engine does not crank.	Faulty starter drive (Bendix gear) not engaging flywheel.	Starter motor likely needs replacement.
No sound or click when turning key.	Completely dead battery, faulty ignition switch, open circuit in starter control wiring, faulty starter solenoid.	Check battery voltage. Inspect ignition switch and wiring. Test starter solenoid.

If these steps do not resolve the issue, professional diagnosis by a certified mechanic is recommended.

Specifications

Attribute	Value
Brand	ACDelco
Model Number	336-2213
Manufacturer Part Number	19381730
UPC	808709747352
Item Weight	6.2 pounds
Package Dimensions	11.3 x 7.1 x 4.6 inches

Attribute	Value
Material	Sintered (bushings)
Phase Type	Single Phase
Date First Available	February 25, 2018

Warranty and Support

ACDelco stands behind the quality of its products. For specific warranty information regarding your ACDelco Gold 336-2213 Remanufactured Starter, please refer to the documentation included with your purchase or visit the official ACDelco website. General Motors Genuine Parts and ACDelco offer a comprehensive portfolio of parts built to high standards.
For technical assistance, product inquiries, or warranty claims, please contact ACDelco customer support through their official channels. Always provide your product model number (336-2213) and any relevant purchase details when seeking support.



Image: A banner displaying ACDelco and GM Genuine Parts logos alongside various automotive components, emphasizing quality and support.

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