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Powermaster 9632

Powermaster 9632 Mastertorque Starter Instruction Manual

For Ford Modular V8 4.6L, 5.0L Coyote, 5.4L, 6.2L, 6.8L Engines

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Powermaster 9632 Mastertorque Starter. Please read this manual thoroughly before installation and use to ensure proper function and safety.



Figure 1: Powermaster 9632 Mastertorque Starter. This image shows the starter motor with its black wrinkle finish, the drive gear, and the

SAFETY INFORMATION

Always observe the following safety precautions:

- Disconnect the vehicle's battery before beginning any electrical work.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Ensure the vehicle is securely supported on jack stands if working underneath.
- Refer to your vehicle's service manual for specific procedures and torque specifications.
- This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm (Proposition 65 warning).

SETUP AND INSTALLATION

Tools Required:

- Socket/Wrench Set
- Torque Wrench
- Battery Terminal Cleaner
- Wire Brush (for ground surfaces)

Installation Steps:

1. **Disconnect Battery:** Disconnect the negative (-) battery cable first, then the positive (+) cable.
2. **Access Old Starter:** Depending on your vehicle, you may need to lift the vehicle and remove other components for access.
3. **Remove Old Starter:** Disconnect all electrical connections from the old starter. Note their positions. Remove the mounting bolts and carefully remove the old starter.
4. **Prepare Mounting Surface:** Clean the engine block's starter mounting surface and the starter's mounting flange with a wire brush to ensure a good electrical ground.
5. **Install New Starter:** Position the Powermaster 9632 starter and secure it with the mounting bolts. Torque the bolts to the vehicle manufacturer's specifications.
6. **Connect Electrical:**
 - Connect the main battery cable to the large terminal on the solenoid.
 - Connect the ignition switch wire to the small terminal on the solenoid.
 - Ensure all connections are clean and tight. The yellow label on the solenoid indicates a maximum torque of 45 inch-pounds for the switch terminal.
7. **Reconnect Battery:** Reconnect the positive (+) battery cable first, then the negative (-) cable.

OPERATION

The Powermaster 9632 Mastertorque Starter is designed for reliable engine cranking. Once installed correctly, its operation is integrated with your vehicle's ignition system.

- Turn the ignition key to the "START" position. The starter will engage the engine's flywheel and crank the engine.
- Release the key once the engine starts. Avoid prolonged cranking to prevent overheating the starter.

- If the engine does not start after a few seconds, wait approximately 30 seconds before attempting to crank again to allow the starter to cool.

MAINTENANCE

The Powermaster 9632 Mastertorque Starter is largely maintenance-free. However, periodic checks can ensure its longevity and optimal performance:

- **Electrical Connections:** Periodically inspect all electrical connections to the starter for tightness and corrosion. Clean any corrosion with a battery terminal brush.
- **Mounting Bolts:** Check the starter mounting bolts for tightness during routine vehicle maintenance.
- **Battery Condition:** Ensure your vehicle's battery is in good condition and fully charged. A weak battery can put excessive strain on the starter.

TROUBLESHOOTING

Symptom	Possible Cause	Solution
Starter does not engage or click	Dead or weak battery, loose or corroded battery cables, faulty ignition switch, faulty starter solenoid.	Check battery charge and connections. Test ignition switch and starter solenoid.
Starter cranks slowly	Low battery charge, corroded battery cables, incorrect gauge battery cables, engine mechanical issues.	Charge or replace battery. Clean or replace battery cables. Consult a mechanic for engine issues.
Starter spins but engine does not crank	Faulty starter drive (bendix), damaged flywheel teeth.	Inspect starter drive and flywheel. Replace starter if drive is faulty.
Grinding noise during cranking	Misalignment of starter, worn starter drive, damaged flywheel teeth.	Verify starter alignment and mounting. Inspect starter drive and flywheel.

SPECIFICATIONS

Feature	Detail
Model Number	9632
Brand	Powermaster
Application	Ford Modular V8 4.6L, 5.0L Coyote, 5.4L, 6.2L, 6.8L Engines
Power Output	1.4 KW
Finish	Black Wrinkle
Item Dimensions (LxWxH)	5 x 14 x 7 inches
Package Weight	4 Kilograms (approx. 8.8 lbs)
UPC	692209021728

WARRANTY AND SUPPORT

This Powermaster product is covered by a manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation included with your product or visit the official Powermaster website.

For technical assistance or support, please contact Powermaster customer service. Contact information can typically be found on the manufacturer's website or product packaging.

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