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Accel 40001C

ACCEL 40001C Ultra Tork Chrome Starter Instruction Manual

Model: 40001C

1. INTRODUCTION

The ACCEL Ultra Tork Chrome Starter (Model 40001C) is engineered to provide superior cranking power and dependable service for your vehicle. This starter features heavy-duty clutch assemblies and hardened intermediate gears, designed to deliver robust performance. Unlike remanufactured units, each ACCEL Ultra Tork Starter is all-new, ensuring optimal quality and longevity. This manual provides essential information for the proper installation, operation, maintenance, and troubleshooting of your new starter.

Key Features:

- Heavy-duty clutch assemblies and hardened intermediate gears for enhanced durability and power.
- Standard rotation for compatibility with various vehicle setups.
- All-new construction, not remanufactured or modified from used cores.
- 1.4 Kw of cranking power for reliable engine starts.
- Backed by an industry-leading five-year limited warranty.



Figure 1: ACCEL 40001C Ultra Tork Chrome Starter. This image displays the chrome-finished starter unit, highlighting its robust construction and the output shaft with splines.

2. SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of your ACCEL Ultra Tork Chrome Starter. Due to the complexity of automotive electrical systems and the critical nature of starter installation, it is highly recommended that installation be performed by a qualified professional mechanic.

Safety Precautions:

- Always disconnect the vehicle's battery before beginning any work on the electrical system to prevent accidental shorts or injury.
- Ensure the vehicle is securely supported on jack stands if working underneath.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Allow the engine and exhaust system to cool down before handling components.

General Installation Steps (Consult Service Manual for Specifics):

1. Locate and identify the existing starter motor on your vehicle.
2. Disconnect all electrical connections from the old starter, noting their positions for reinstallation.

3. Remove the mounting bolts securing the old starter to the engine or transmission bell housing.
4. Carefully remove the old starter from the vehicle.
5. Compare the new ACCEL starter with the old unit to ensure compatibility.
6. Install the new ACCEL starter, ensuring it seats correctly and the mounting bolts are tightened to the manufacturer's specifications.
7. Reconnect all electrical connections to the new starter, ensuring they are clean and secure.
8. Reconnect the vehicle's battery.
9. Test the starter operation.

Refer to your vehicle's specific service manual for detailed instructions, torque specifications, and any unique procedures related to your make and model.

3. OPERATING INSTRUCTIONS

The ACCEL Ultra Tork Chrome Starter is designed to operate seamlessly within your vehicle's existing electrical system. Its primary function is to crank the engine to initiate combustion.

Normal Operation:

- Ensure the vehicle's transmission is in Park (P) or Neutral (N) for automatic transmissions, or the clutch pedal is fully depressed for manual transmissions.
- Insert the ignition key and turn it to the "START" position.
- The starter motor will engage the engine's flywheel, rotating the crankshaft to begin the combustion cycle.
- Once the engine starts, immediately release the ignition key, allowing it to return to the "RUN" position. Do not hold the key in the "START" position once the engine has fired, as this can damage the starter motor.

The 1.4 Kw cranking power of this starter ensures a strong and consistent turn-over, even in demanding conditions.

4. MAINTENANCE

While the ACCEL Ultra Tork Chrome Starter is built for durability and requires minimal routine maintenance, periodic checks can help ensure its long-term performance.

Recommended Checks:

- **Electrical Connections:** Periodically inspect all electrical connections to the starter (battery cable, solenoid wire) for corrosion, looseness, or damage. Ensure they are clean and securely fastened. Loose or corroded connections can lead to poor starting performance or premature starter failure.
- **Mounting Bolts:** Check the starter's mounting bolts for tightness. Vibrations can sometimes cause bolts to loosen over time.
- **General Cleanliness:** Keep the exterior of the starter clean from excessive dirt, oil, and debris. While the chrome finish is durable, a clean surface helps dissipate heat and prevents buildup that could affect performance.
- **Battery Condition:** Ensure your vehicle's battery is in good condition and fully charged. A weak battery can put undue strain on the starter motor.

No internal user-serviceable parts are present. Do not attempt to disassemble the starter unit.

5. TROUBLESHOOTING

If you experience issues with your vehicle's starting system, consider the following common troubleshooting steps. Note

that these are general guidelines, and professional diagnosis may be required.

Symptom	Possible Cause	Solution
Starter does not engage (no sound or click)	Dead or weak battery; Loose or corroded battery terminals; Faulty ignition switch; Faulty starter relay; Open circuit in wiring.	Check battery charge and terminals; Test ignition switch and relay; Inspect wiring for breaks or shorts.
Starter clicks but does not crank engine	Weak battery; Loose or corroded battery cables; Faulty starter solenoid; Engine seized.	Charge or replace battery; Clean and tighten battery cables; Test or replace starter solenoid; Have engine inspected.
Starter cranks slowly	Weak battery; High resistance in battery cables; Incorrect engine oil viscosity (in cold weather); Internal starter issue.	Test battery and charging system; Inspect and clean battery cables; Ensure correct oil is used; Professional inspection of starter.
Grinding noise during starting	Damaged starter drive gear or flywheel teeth; Improper starter alignment.	Inspect starter drive and flywheel; Verify proper starter installation and alignment. Professional repair recommended.

If these steps do not resolve the issue, or if you are unsure about performing any of these checks, it is advisable to consult a certified automotive technician.

6. SPECIFICATIONS

Detailed technical specifications for the ACCEL 40001C Ultra Tork Chrome Starter:

Attribute	Value
Model Number	40001C
Brand	Accel
Material	Chrome
Wattage	1.4 KW
Item Weight	3.95 kg
Manufacturer	ACCEL
Country of Origin	China
UPC	743047107164
Date First Available	June 24 2014

7. WARRANTY AND SUPPORT

Limited Warranty:

The ACCEL 40001C Ultra Tork Chrome Starter is backed by an industry-leading **five-year limited warranty**. This warranty covers defects in materials and workmanship under normal use and service. For specific terms, conditions, and limitations of the warranty, please refer to the warranty documentation provided with your purchase or contact ACCEL customer service.

Customer Support:

For technical assistance, warranty claims, or any questions regarding your ACCEL Ultra Tork Chrome Starter, please contact ACCEL customer support. Have your product model number (40001C) and proof of purchase ready when contacting support.

Please note: Attempting to repair or modify the starter yourself may void the warranty.



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This manual is for informational purposes only. Always consult a qualified professional for installation and complex repairs.