

Packard 90520

Packard 90520 Loren Cook Replacement Gemini Motor Instruction Manual

Model: 90520 | 1/16 H.P. | 115 Volts | 1200 RPM

1. INTRODUCTION

This manual provides essential instructions for the safe and efficient installation, operation, and maintenance of your Packard 90520 Loren Cook Replacement Gemini Motor. Please read this manual thoroughly before attempting any installation or operation to ensure proper function and to prevent potential hazards. Retain this manual for future reference.

2. SAFETY INFORMATION

Always prioritize safety when working with electrical and mechanical equipment. Failure to follow these safety guidelines may result in personal injury, property damage, or motor malfunction.

- **Disconnect Power:** Always ensure that the power supply to the motor and the appliance it is connected to is completely disconnected before installation, maintenance, or troubleshooting.
- **Qualified Personnel:** Installation and servicing should only be performed by qualified and experienced personnel.
- **Electrical Safety:** Verify that the voltage and frequency of the power supply match the motor's specifications (115 Volts). Ensure all wiring connections are secure and comply with local electrical codes.
- **Moving Parts:** Keep hands, tools, and loose clothing away from rotating parts during operation.
- **Proper Grounding:** Ensure the motor is properly grounded to prevent electrical shock.
- **Environmental Conditions:** Do not operate the motor in environments with excessive moisture, dust, or corrosive substances unless specifically designed for such conditions.

3. PRODUCT OVERVIEW

The Packard 90520 is a robust replacement motor designed for specific applications, including Loren Cook Gemini units. It features a durable construction and is engineered for reliable performance.



Figure 1: Packard 90520 Loren Cook Replacement Gemini Motor. This image displays the Packard 90520 motor, a compact electric motor with a silver-grey casing. It features a central shaft extending from one end, surrounded by ventilation slots. On the side, a small white electrical component is visible, likely a capacitor or terminal box. The motor is designed for replacement applications.

Key features include:

- **Model:** 90520
- **Horsepower:** 1/16 H.P.
- **Voltage:** 115 Volts
- **RPM:** 1200 RPM
- **Bearings:** Sleeve
- **Rotation:** CW (Clockwise)

4. SETUP AND INSTALLATION

This motor is intended as a replacement for existing units. Ensure the replacement motor's specifications match the original motor's requirements for proper function and safety.

1. Preparation:

- Disconnect all power to the appliance where the motor will be installed.
- Carefully remove the old motor, noting all wiring connections and mounting positions. Take photos if necessary for reference.
- Inspect the mounting area for any damage or debris and clean as needed.

2. Mounting:

- Position the new Packard 90520 motor in the designated mounting location.
- Secure the motor using appropriate fasteners. Ensure the motor is firmly mounted to prevent vibration and misalignment.
- Verify that the motor shaft is properly aligned with any connected components (e.g., fan blades, pulleys).

3. Wiring:

- Refer to the wiring diagram provided with the original equipment or the new motor (if applicable).
- Connect the power supply wires to the motor terminals. Ensure correct polarity and secure all connections.
- Confirm that the motor is properly grounded according to local electrical codes.
- Double-check all connections for tightness and insulation.

4. Final Checks:

- Before restoring power, ensure all tools and loose items are removed from the motor area.
- Confirm that no wires are pinched or exposed.
- Manually rotate the shaft (if possible) to check for any obstructions or binding.

5. OPERATING INSTRUCTIONS

Once installed and all safety checks are complete, the motor can be operated.

1. Initial Start-up:

- Restore power to the appliance.
- Activate the motor. Observe for any unusual noises, vibrations, or smells.
- If any abnormalities are detected, immediately shut off power and investigate the cause.

2. Normal Operation:

- The motor is designed for continuous operation within its specified parameters.
- Ensure adequate ventilation around the motor to prevent overheating.
- Avoid overloading the motor beyond its rated horsepower.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your motor. Always disconnect power before performing any maintenance.

- **Cleaning:** Periodically clean the exterior of the motor to remove dust, dirt, and debris that can impede cooling. Use a dry cloth or compressed air. Do not use liquids directly on the motor.
- **Inspection:** Regularly inspect the motor for signs of wear, damage, or loose connections. Check for unusual noises or excessive heat during operation.
- **Bearings:** This motor uses sleeve bearings. These are typically self-lubricating and do not require regular oiling. If unusual noise or resistance is noted, bearing replacement by a qualified technician may be necessary.
- **Vibration:** Excessive vibration can indicate misalignment or worn components. Address any

significant vibration promptly.

7. TROUBLESHOOTING

Before attempting any troubleshooting, ensure power is disconnected. Consult a qualified technician for complex issues.

Problem	Possible Cause	Solution
Motor does not start	No power supply; Incorrect wiring; Overload protection tripped; Seized bearings	Check power connections and circuit breaker; Verify wiring against diagram; Reset overload; Inspect and replace bearings if necessary
Motor runs hot	Overload; Insufficient ventilation; High ambient temperature; Worn bearings	Reduce load; Ensure clear airflow around motor; Operate within temperature limits; Inspect and replace bearings
Excessive noise or vibration	Loose mounting; Misalignment; Worn bearings; Obstruction	Tighten mounting bolts; Check and correct alignment; Inspect and replace bearings; Remove any obstructions
Motor hums but does not turn	Starting capacitor fault (if applicable); Obstruction; Low voltage	Consult technician for capacitor check; Remove obstruction; Verify power supply voltage

8. SPECIFICATIONS

The following are the technical specifications for the Packard 90520 motor:

- **Manufacturer:** Packard
- **Part Number:** 90520
- **Horsepower (H.P.):** 1/16
- **Voltage:** 115 Volts
- **RPM:** 1200
- **Amps:** 1.50
- **Rotation:** CW (Clockwise)
- **Bearings:** Sleeve
- **Diameter:** 5.12 inches
- **Item Weight:** Approximately 11 pounds (4990 Grams)
- **Product Dimensions:** 11.02 x 4.72 x 5.51 inches
- **Item Package Quantity:** 1

9. WARRANTY INFORMATION

Specific warranty details for the Packard 90520 motor are not provided within this manual. Please refer to the product packaging, purchase documentation, or contact Packard customer support for information regarding warranty coverage and terms.

10. SUPPORT

For technical assistance, replacement parts, or further inquiries, please contact Packard customer support. Contact information may be available on the product packaging or the official Packard website. When contacting support, please have your motor's model number (90520) and any relevant purchase details readily available.