

Coleman 48208-0690

Coleman-Mach 48208-0690 Mach 3 13,500 BTU Power Saver RV Air Conditioner User Manual

Model: 48208-0690

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your Coleman-Mach 48208-0690 Mach 3 13,500 BTU Power Saver RV Air Conditioner. The Mach 3 is designed to provide reliable cooling for recreational vehicles, featuring a robust 13,500 nominal BTU cooling capacity and delivering 320 CFM (cubic feet per minute) airflow. It is suitable for both ducted and non-ducted systems. Please read this manual thoroughly before installation or use.



Figure 1: Coleman-Mach 48208-0690 Mach 3 RV Air Conditioner Unit

2. SAFETY INFORMATION

Always observe the following safety precautions to reduce the risk of fire, electric shock, or injury.

- **Professional Installation Recommended:** Installation of this RV air conditioner should be performed by a qualified service technician. Improper installation can lead to electrical hazards, refrigerant leaks, and reduced performance.
- **Electrical Safety:** Ensure the RV's power supply is disconnected before any installation, maintenance, or repair work. Verify that the electrical system meets the unit's power requirements.
- **Refrigerant Handling:** This unit contains R-410A refrigerant. Servicing involving refrigerant should only be performed by certified personnel.
- **Clearances:** Maintain proper clearances around the unit for adequate airflow and heat dissipation.
- **Structural Integrity:** Ensure the RV roof structure can support the weight of the air conditioner (approximately 105 pounds).

3. PACKAGE CONTENTS

Verify that all components are present and undamaged upon unpacking.

- Coleman-Mach 48208-0690 Mach 3 13,500 BTU Power Saver A/C Unit
- Installation Hardware (as specified by manufacturer)
- User Manual (this document)

4. SETUP AND INSTALLATION

Installation of the Coleman-Mach 48208-0690 Mach 3 unit requires specialized tools and knowledge. It is strongly recommended that installation be performed by a certified RV technician.

4.1 Pre-Installation Checks

- Confirm roof opening dimensions (typically 14 inches x 14 inches).
- Verify roof thickness is within manufacturer specifications.
- Ensure adequate wiring is available for 120V AC power.

4.2 Mounting the Unit

1. Carefully lift the unit onto the RV roof, centering it over the roof opening.
2. Ensure the gasket forms a tight seal between the unit and the roof.
3. Secure the unit using the provided mounting bolts and hardware, tightening evenly to prevent distortion.

4.3 Electrical Connections

- Connect the unit's wiring to the RV's electrical system according to the wiring diagram provided with the unit.
- Ensure all connections are secure and properly insulated.
- Install the ceiling assembly (ducted or non-ducted) inside the RV, connecting it to the main unit.

5. OPERATING INSTRUCTIONS

The Coleman-Mach 48208-0690 Mach 3 is typically controlled via a remote control or a wall-mounted thermostat (sold separately or integrated into the RV system).

5.1 Basic Operation

- **Power On/Off:** Use the power button on your remote or thermostat to turn the unit on or off.
- **Mode Selection:** Select the desired operating mode (e.g., Cool, Fan Only). If an optional heater assembly is installed, a Heat mode may also be available.
- **Temperature Adjustment:** Set the desired temperature using the up/down arrows on your control interface.
- **Fan Speed:** Adjust the fan speed (e.g., Low, Medium, High, Auto) to control airflow and noise levels.

5.2 Power Saver Feature

The Power Saver Series design optimizes energy consumption while maintaining effective cooling performance. Operate the unit in 'Auto' fan mode for optimal energy efficiency.

6. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your air conditioner.

6.1 Air Filter Cleaning

- Locate the return air filter(s) in the ceiling assembly.
- Remove the filter(s) and clean them with warm, soapy water. Rinse thoroughly and allow to air dry completely before reinstalling.
- Clean filters monthly during periods of heavy use.

6.2 Condenser and Evaporator Coils

- Periodically inspect the outdoor condenser coils for dirt, leaves, or debris. Carefully clean with a soft brush or vacuum.
- Evaporator coils are located inside the unit and typically require professional cleaning if heavily soiled.

6.3 Seasonal Checks

- Before the cooling season, check all electrical connections for tightness.
- Inspect the roof gasket for cracks or deterioration and replace if necessary to prevent leaks.

7. TROUBLESHOOTING

Before contacting service, review the following common issues and solutions.

Problem	Possible Cause	Solution
Unit does not turn on	No power, tripped breaker, faulty thermostat/remote	Check RV power supply, reset circuit breaker, ensure thermostat/remote batteries are functional.
Unit runs but does not cool	Dirty air filter, blocked coils, low refrigerant (professional service required)	Clean air filter. Inspect outdoor coils for obstructions. If problem persists, contact a qualified technician.
Low airflow	Dirty air filter, blocked return/supply vents	Clean air filter. Ensure all vents are open and unobstructed.
Unusual noise	Loose components, debris in fan, motor issue	Inspect for loose screws or debris. If noise persists or is severe, discontinue use and contact service.

8. SPECIFICATIONS

Key technical specifications for the Coleman-Mach 48208-0690 Mach 3 RV Air Conditioner.



Figure 2: Approximate Dimensions of the Coleman-Mach 48208-0690 Mach 3 RV Air Conditioner

Feature	Specification
Model Number	48208-0690
Cooling Capacity	13,500 BTU (nominal)
Airflow	320 CFM
Refrigerant	R-410A
Power Source	Corded Electric (120V AC)
Item Weight	105 pounds
Compressor Type	Rotary Scroll
Seasonal Energy Efficiency Ratio (SEER)	18
Color	Black (unit shroud)
Installation Type	Split System (Roof-mounted)

9. WARRANTY AND SUPPORT

The Coleman-Mach 48208-0690 Mach 3 RV Air Conditioner comes with a **2-year limited warranty**. This warranty covers defects in materials and workmanship under normal use and service.

For warranty claims, technical assistance, or to locate an authorized service center, please refer to the contact information provided with your purchase documentation or visit the official Coleman-Mach website. Do not attempt to repair the unit yourself, as this may void the warranty and pose safety risks.

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Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question