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› Packard C140A 1 Pole 40 Amp Contactor 24 Volt Coil Instruction Manual

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Model: C140A

INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of the Packard C140A 1 Pole 40 Amp Contactor with a 24 Volt Coil. This contactor is designed to meet UL 508 specifications for devices up to 600 volts and features Class B insulation. It includes lug and spade terminals for versatile connections and protective covers. Please read these instructions thoroughly before proceeding with any installation or operation.

SETUP AND INSTALLATION

Safety Precautions

- Always disconnect power at the main circuit breaker or fuse box before installing or servicing the contactor.
- Installation should only be performed by a qualified electrician or HVAC technician.
- Ensure all wiring complies with local and national electrical codes.
- Wear appropriate personal protective equipment (PPE), including safety glasses and insulated gloves.

Mounting the Contactor

The Packard C140A contactor is designed for secure mounting within an electrical enclosure. Use appropriate fasteners through the mounting holes on the base plate to secure the unit firmly.

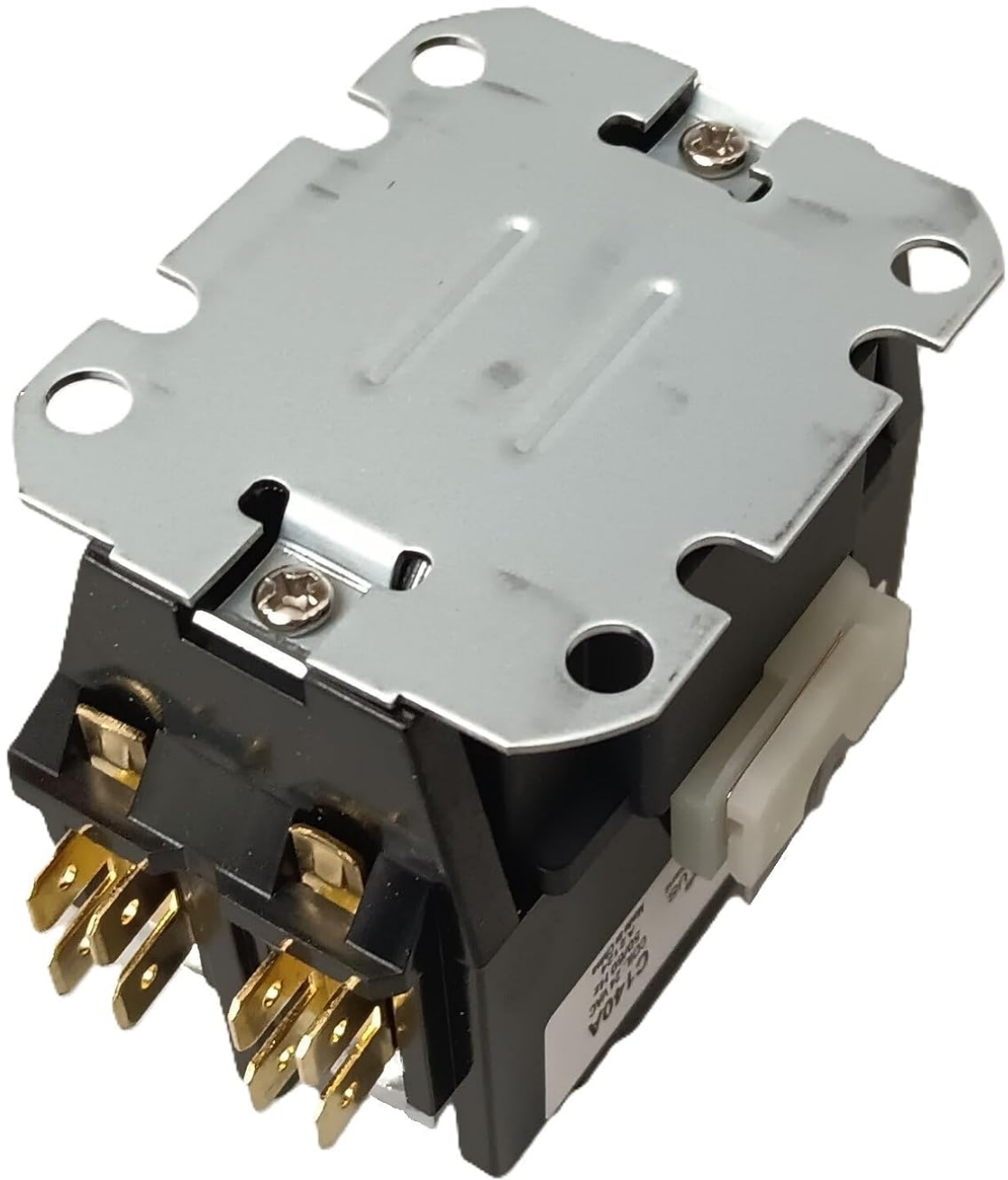


Image Description: This image displays the bottom and angled side view of the Packard C140A contactor. The metal mounting plate, which has four distinct screw holes for secure installation, is clearly visible. The main body of the contactor is black, with gold-colored spade terminals extending from the sides, indicating connection points.

Wiring Connections

Identify the load terminals and the coil terminals. The C140A is a 1-pole contactor, meaning it controls one main power line. The 24-volt coil requires a low-voltage control signal to operate the contactor.

- **Load Terminals:** Connect the main power circuit (e.g., to a motor or heating element) to the larger lug terminals. Ensure connections are tight and secure.
- **Coil Terminals:** Connect the 24-volt control voltage to the smaller spade terminals on the coil. These terminals energize the coil, which in turn closes the main power contacts.

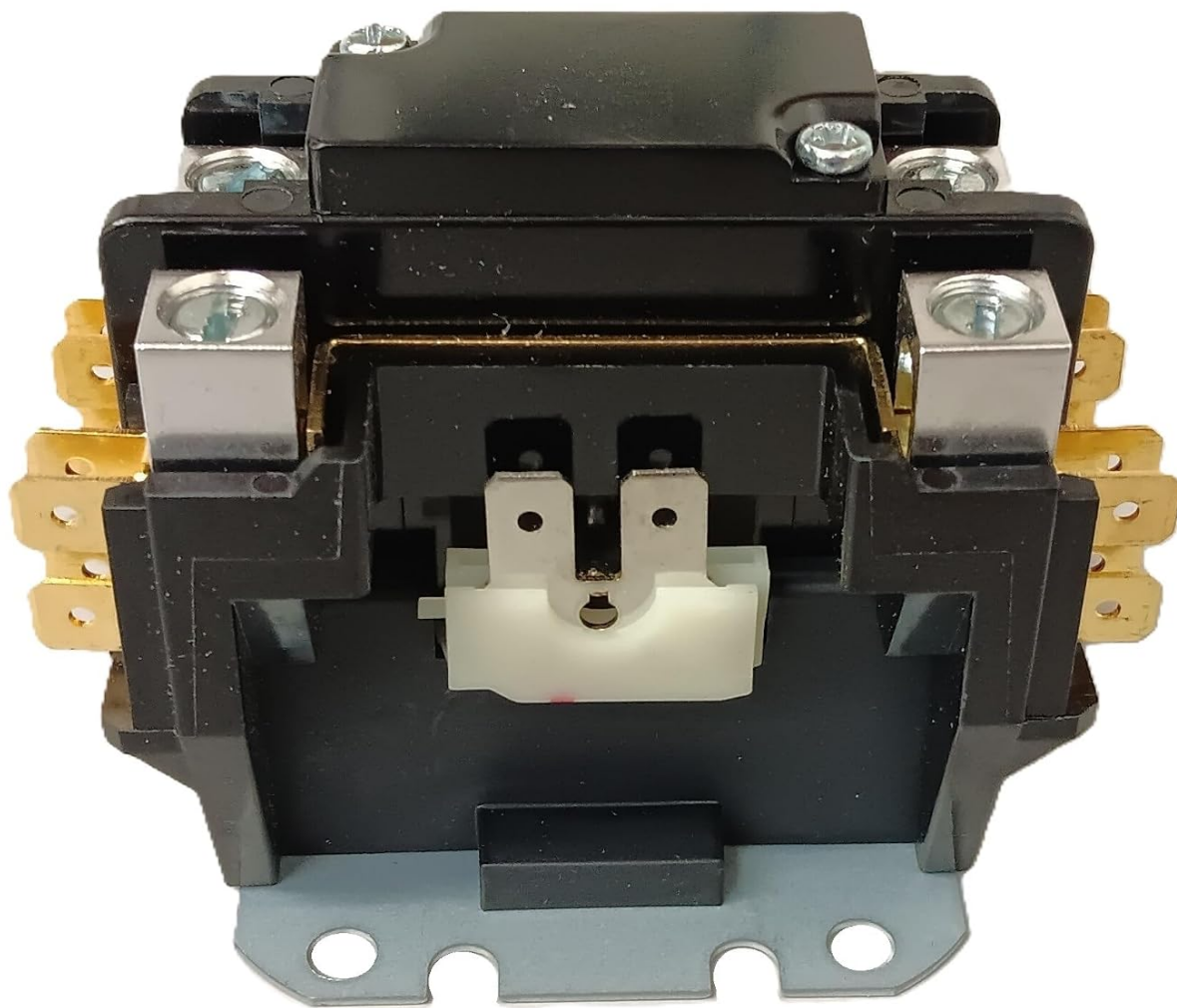


Image Description: This image provides a front view of the Packard C140A contactor. The two main power terminals, featuring large screws and lug connections, are prominent at the top. Below them, the two smaller spade terminals for the 24-volt control coil are visible, typically used for low-voltage wiring.

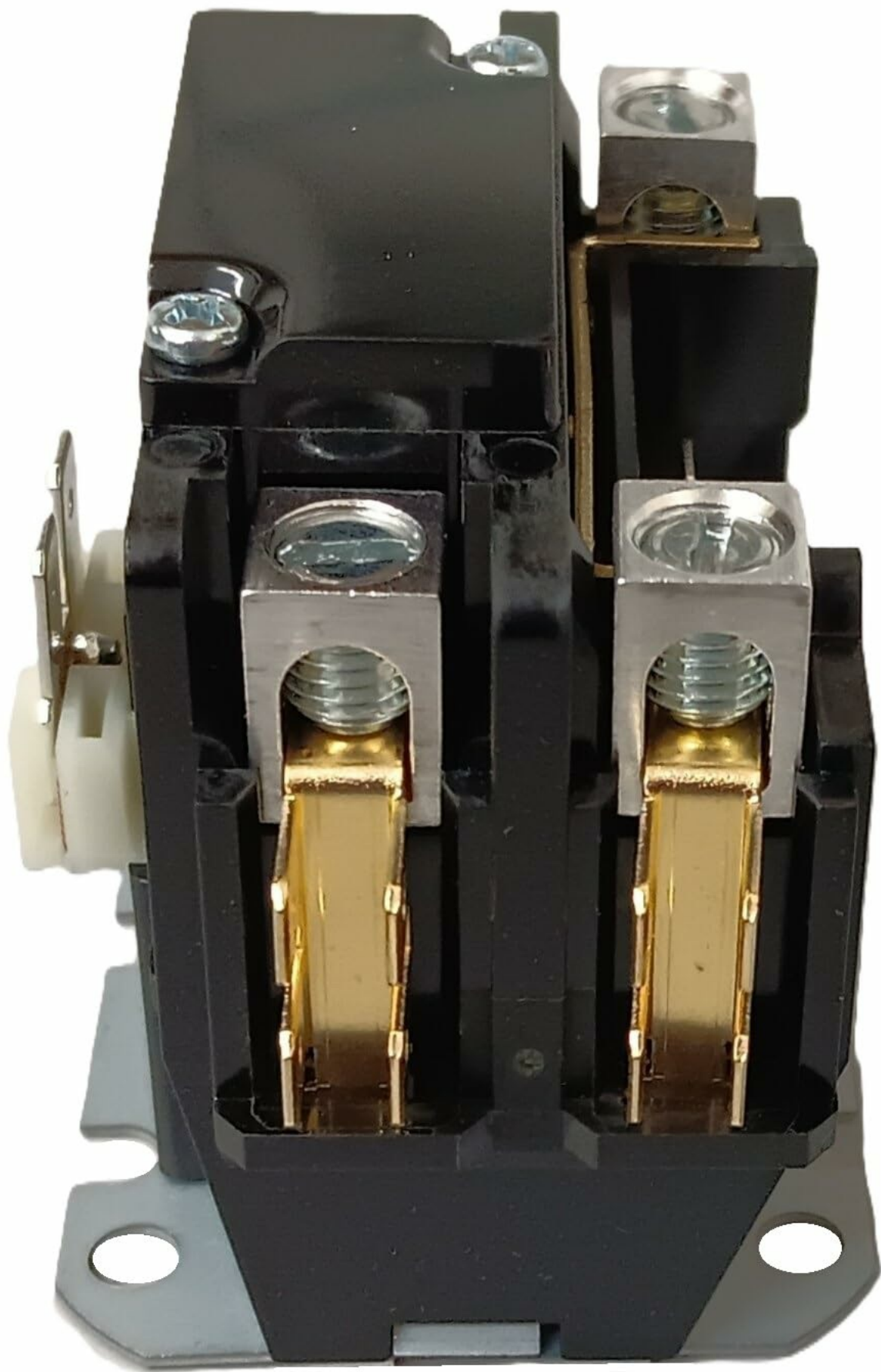


Image Description: This image shows a side perspective of the Packard C140A contactor. It highlights the robust main power terminals with their associated screws and the gold-colored spade terminals for the control coil. The black housing and the overall compact design of the contactor are clearly visible.

OPERATING INSTRUCTIONS

The Packard C140A contactor operates by using a low-voltage control signal to switch a higher-voltage power circuit. When the 24-volt coil is energized, it creates an electromagnetic field that pulls the armature, closing the main power contacts. This allows current to flow through the connected load.

- **Energizing the Coil:** Apply 24 volts AC to the coil terminals. This will cause an audible click as the contacts close.
- **De-energizing the Coil:** Remove the 24-volt supply from the coil terminals. The electromagnetic field will collapse, and springs will open the main contacts, interrupting the power to the load.
- Ensure the contactor is rated for the specific voltage and amperage of the circuit it is controlling. The C140A is rated for 40 amps.

No official seller videos are available for embedding that demonstrate the operation of this specific contactor model.

MAINTENANCE

Regular inspection and maintenance can extend the lifespan of your contactor and ensure reliable operation. Always disconnect power before performing any maintenance.

- **Visual Inspection:** Periodically check the contactor for signs of wear, burning, discoloration, or physical damage.
- **Terminal Connections:** Ensure all wiring connections are tight and free from corrosion. Loose connections can lead to overheating and premature failure.
- **Contact Condition:** While power is disconnected, inspect the main contacts for pitting or excessive wear. Severely pitted contacts may indicate the need for replacement.
- **Cleanliness:** Keep the contactor free from dust, dirt, and debris, which can interfere with its mechanical operation or cause insulation breakdown. Use a dry, non-conductive brush or compressed air for cleaning.

TROUBLESHOOTING

If you encounter issues with your Packard C140A contactor, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Contactor does not engage (no click)	No 24V control voltage to coil, faulty coil, open control circuit.	Check 24V supply to coil terminals. Test coil resistance (refer to manufacturer specs). Inspect control circuit wiring.
Contactor hums loudly	Loose shading coil, dirt/debris on armature, incorrect voltage.	Inspect for loose parts. Clean armature surface. Verify correct 24V coil voltage.
Contactor overheats	Overcurrent, loose connections, incorrect voltage, frequent cycling.	Verify load current is within 40A rating. Tighten all connections. Check coil voltage. Reduce cycling frequency if possible.
Contacts are pitted or welded shut	Excessive arcing, short circuit, contactor undersized for load.	Replace contactor. Investigate and correct cause of arcing/short circuit. Ensure contactor is correctly sized for the application.

If troubleshooting steps do not resolve the issue, consult a qualified electrician or contact Packard customer support.

SPECIFICATIONS

Feature	Detail
Model Number	C140A
Brand	Packard
Poles	1 Pole
Amp Rating	40 Amp
Coil Voltage	24 Volt
UL Compliance	Meets UL 508 for devices up to 600 volts
Insulation Class	Class B
Terminals Included	Lug, Spade terminals, and Covers
Product Dimensions	1 x 1 x 0.5 inches (approximate)
Item Weight	0.2 ounces (approximate)
ASIN	B003U81D2I

WARRANTY INFORMATION

Specific warranty details for the Packard C140A contactor are not provided in the product information. For warranty inquiries, please retain your proof of purchase and contact Packard directly or the retailer from whom the product was purchased. Warranty terms typically cover manufacturing defects under normal use conditions.

SUPPORT AND CONTACT

For technical assistance, further product information, or support, please refer to the official Packard website or contact their customer service department. It is recommended to consult a qualified professional for any complex electrical installations or repairs.

Manufacturer: Packard

Model: C140A

ASIN: B003U81D2I

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

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

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