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Ronybuy Dual Electric Fan Relay Kit 40 AMP

Ronybuy Dual Electric Fan Relay Kit Instruction Manual

Model: Dual Electric Fan Relay Kit 40 AMP

1. INTRODUCTION

This manual provides detailed instructions for the installation and operation of the Ronybuy Dual Electric Fan Relay Kit. This kit is designed to control dual electric cooling fans for automotive radiator systems, ensuring optimal engine temperature regulation.

The kit features a 40 AMP 12V relay system with a thermostat switch that activates fans at 185°F and deactivates them at 175°F. It is suitable for a wide range of cooling fans and engine types.

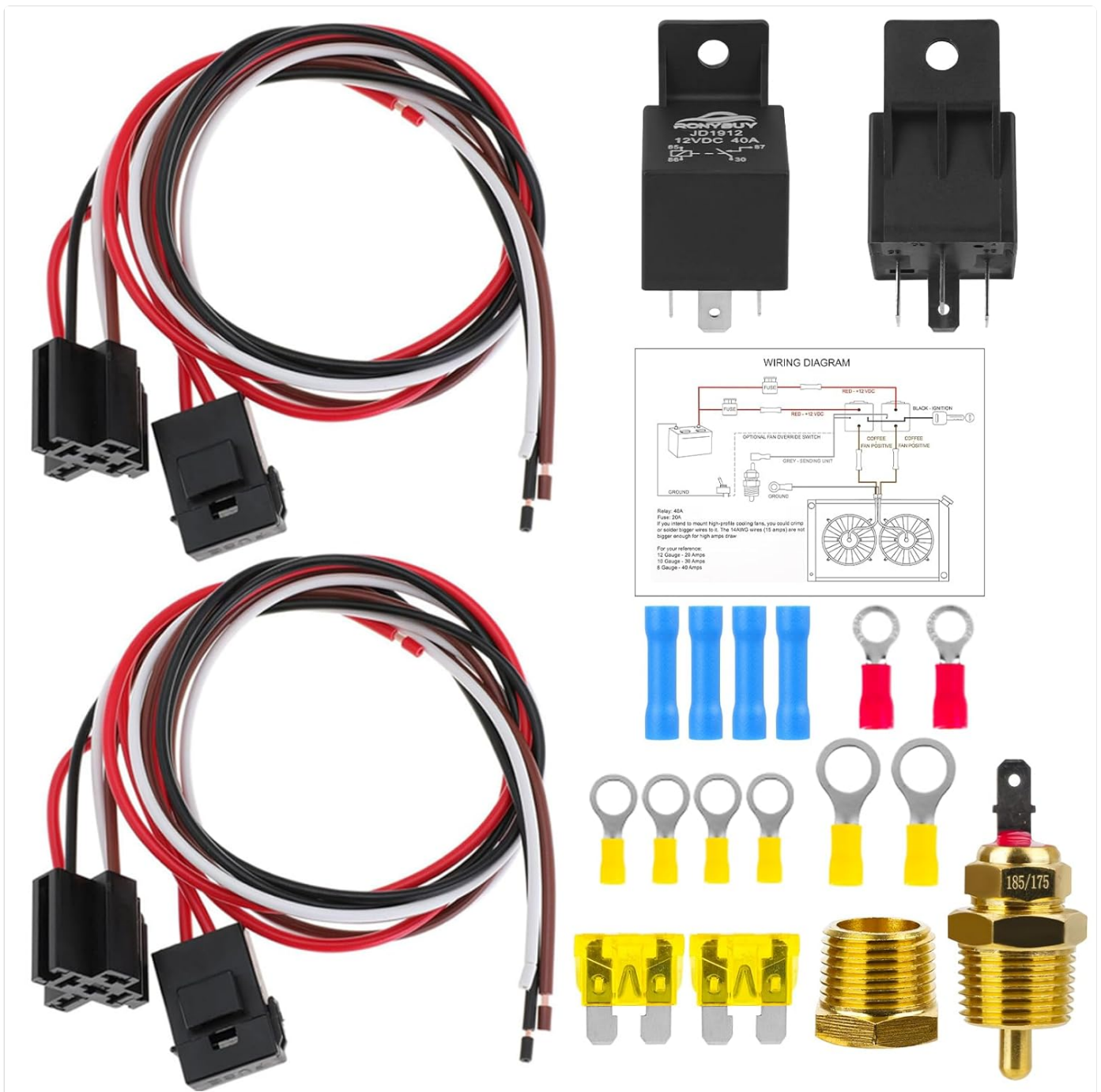


Figure 1.1: Overview of the Ronybuy Dual Electric Fan Relay Kit components, including two 40A relays with harnesses, a thermostat switch, fuses, and various connectors.

2. COMPATIBILITY

This dual electric radiator fan relay kit is compatible with 10, 12, 14, and 16-inch cooling fans. It is designed to work with a broad range of engine types, including but not limited to:

- 265, 283, 305, 307, 327, 350, 383, 400, 396, 402, 427, 454, 472, 502
- 260, 289, 302, 351W, 347, 352, 360, 390, 406, 427, 428, 429, 460, 351C, 351M, 400M
- 273, 318, 340, 360, 361, 383, 400, 413, 426W, 440, 455, 330, 326

Fit 10, 12, 14, 16 Inch Cooling Fans

2X 8 inch Fans

2X 10 Inch Fans

2X 12 Inch Fans

2X 14 Inch Fans

Single 8 Inch Fan

Single 10 Inch Fan

Single 12 Inch Fan

Single 14 Inch Fan

Single 16 inch Fan

Work for 265 283 305 307 327 350 383 400 396 402 427 454 472 502
260 289 302 351W 347 352 360 390 406 427 428 429 460 351C 351M
400M 273 318 340 360 361 383 400 413 426W 440 455 330 326 Engines

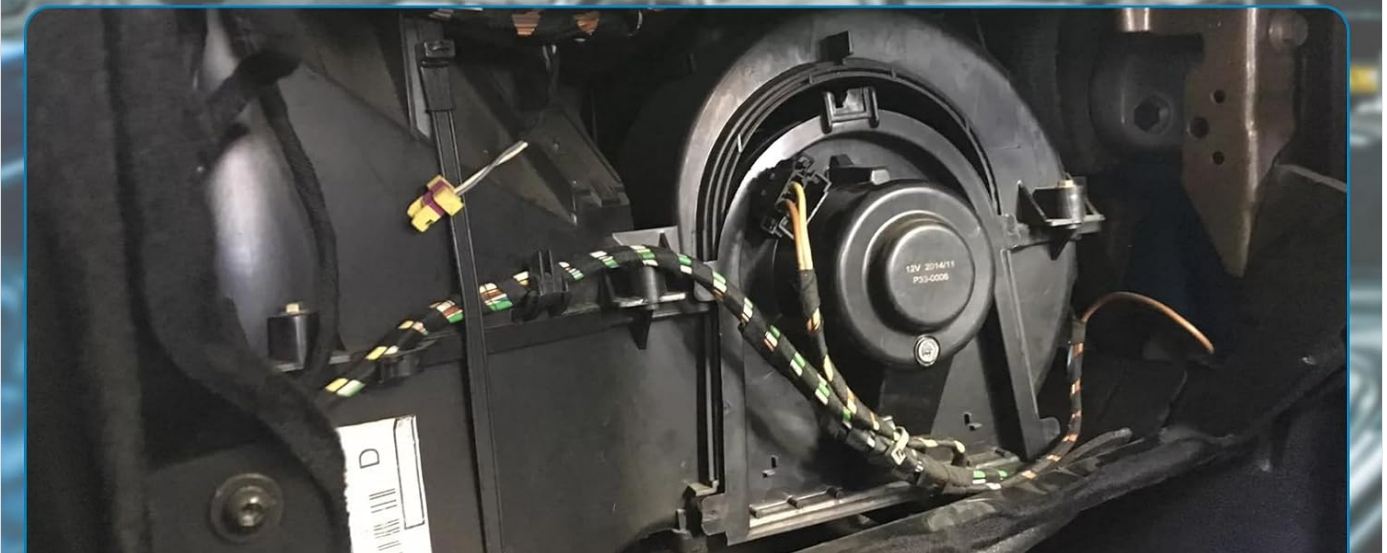


Figure 2.1: Visual representation of compatible cooling fan sizes and a list of supported engine displacements.

3. PACKAGE CONTENTS

The Ronybuy Dual Electric Fan Relay Kit includes all necessary components for installation:

- 2x 40A Relays with Harnesses
- 1x 3/8" Thermostat Switch
- 1x 3/8" to 1/2" Adapter
- 2x Inline Fuse Holders
- 2x 20 Amp Fuses
- 4x Wire Connectors
- 8x Ring Terminals
- 1x Wiring Diagram

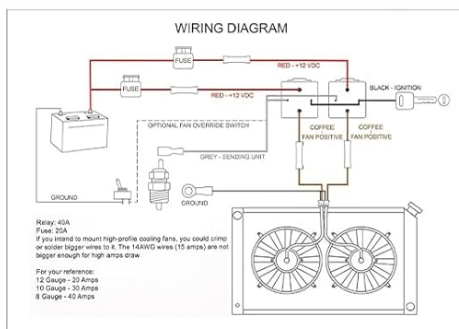
Includes Everything You Need



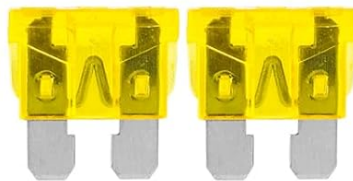
2x 40A Relay



2x Wiring Harness



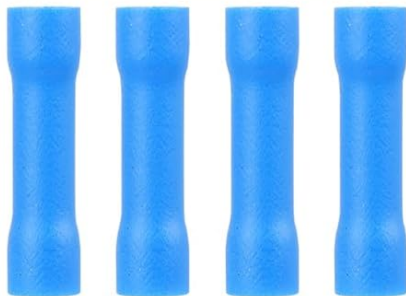
1x Wiring Diagram



2x 20 Amp Fuse



1x 3/8" to 1/2" Adapter
1x 3/8" Thermostat Switch



4x Wire Connectors



8x Ring Terminals

Figure 3.1: A visual breakdown of all items included in the product package, such as relays, wiring, fuses, and the thermostat switch.

4. SETUP AND INSTALLATION

Follow these steps carefully to install your dual electric fan relay kit. Ensure the vehicle's battery is disconnected before beginning any electrical work.

4.1 Wiring Instructions

1. Connect the **RED** wire to the 12VDC Positive Battery Terminal.
2. Connect the **COFFEE** wire to the Fan Positive terminal.
3. Connect the **BLACK** wire to the Ignition source.
4. Connect the **GREY** wire to the Sending Unit.
5. Ensure the thermostat switch is properly grounded through its threads to the engine. The engine itself must also be grounded for the system to function correctly.
6. If installing high-profile fans, it is recommended to crimp or solder larger gauge wires to accommodate higher amperage draw, as the included 14AWG wires (rated for 15 amps) may not be sufficient.

6. MAINTENANCE

The Ronybuy Dual Electric Fan Relay Kit is designed for durability and minimal maintenance. However, periodic checks are recommended to ensure continued optimal performance:

- **Wiring Inspection:** Periodically inspect all wiring connections for signs of wear, corrosion, or looseness. Ensure all terminals are securely fastened.
- **Fuse Check:** If the fans are not operating, check the 20 Amp fuses in the inline fuse holders. Replace with fuses of the same rating if blown.
- **Grounding:** Verify that the thermostat switch and engine grounds remain secure and free of corrosion. A poor ground connection can prevent proper operation.
- **Relay Condition:** While the relays are waterproof, ensure they are mounted in a location that minimizes direct exposure to extreme elements or physical damage.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Fans do not turn on.	Thermostat switch not grounded. Engine not grounded. Blown fuse. Loose wiring connection. Incorrect wiring.	Ensure thermostat threads are making good contact with a grounded engine component. Verify engine has a solid ground connection to the chassis/battery. Check and replace 20 Amp fuses if necessary. Inspect all wire connections for tightness and proper contact. Review the wiring diagram (Figure 4.1) and re-check all connections.
Fans turn on but do not cool effectively (for high-profile fans).	Insufficient wire gauge for high amperage draw.	If using high-profile fans, ensure the wiring is of sufficient gauge (e.g., 12AWG for 20 Amps, 10AWG for 30 Amps, 8AWG for 40 Amps) to handle the current draw. The included 14AWG wires are rated for 15 amps.
Fans run continuously or do not turn off.	Faulty thermostat switch. Thermostat switch not properly installed or sensing temperature correctly.	Test the thermostat switch for proper operation. Ensure the thermostat switch is fully threaded and making good contact with the coolant.

8. SPECIFICATIONS

Feature	Detail
Product Dimensions	5.9 x 5.9 x 1.77 inches
Item Weight	13.12 ounces
Model Number	Dual Electric Fan Relay Kit 40 AMP
Manufacturer	Ronybuy
Connector Type	Quick Connect
Contact Material	Plastic
Contact Type	Normally Open
Current Rating	40 Amps
Mounting Type	Snap In Mount
Thermostat ON Temperature	185°F (85°C)
Thermostat OFF Temperature	175°F (79°C)
Thermostat Thread Size	3/8" NPT (with 1/2" adapter)
Relay Type	4-PIN Waterproof Relay
Wire Gauge (included)	14AWG (rated for 15 amps)

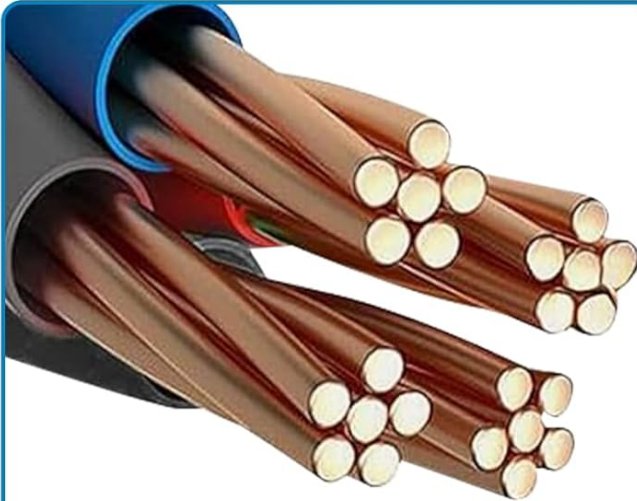
Solid & Safety Construction



4PIN Waterproof Relay



20 Amp Fuse and Inline Fuse Holder



14AWG Tinned Copper Wires



**3/8" NPT Pipe Thread with 1/2" Adapter
185 Degrees On 175 Degrees off**

Figure 8.1: Components highlighting solid and safety construction, including the waterproof relay, fuse, tinned copper wires, and thermostat switch.

40AMP 12V Electric Fan Relay Kit

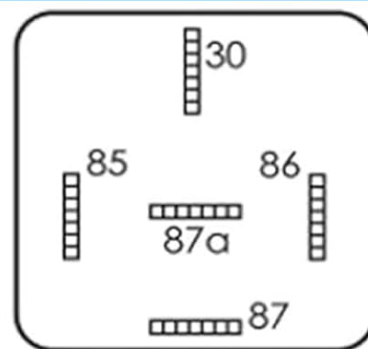
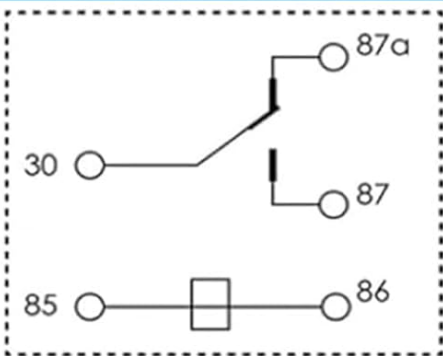
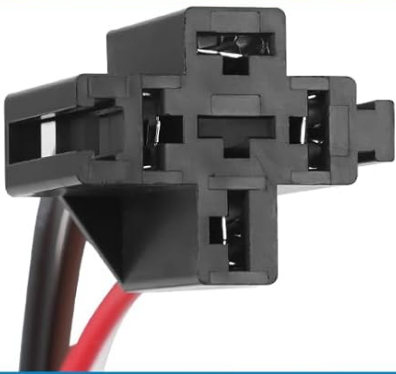


Figure 8.2: Detailed view of the 40 AMP 12V electric fan relay kit components, including the relay, its base, and pinout diagrams.

9. WARRANTY AND SUPPORT

Information regarding product warranty and customer support for the Ronybuy Dual Electric Fan Relay Kit is not provided within this manual. Please refer to the product packaging or the manufacturer's official website for details on warranty coverage and how to contact customer support.