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› KAEDEAR Motorcycle Power Relay Kit KDR-E2 Instruction Manual

Kaedear US-KDR-E2

KAEDEAR Motorcycle Power Relay Kit KDR-E2 Instruction Manual

Model: US-KDR-E2

INTRODUCTION

The KAEDEAR KDR-E2 Motorcycle Power Relay Kit is a waterproof 4-way fuse block and accessory splitter designed for efficient power distribution to multiple electronic devices on your motorcycle. It features quick-connect stripped wires for easy installation and a compact design suitable for tight spaces.

WHAT'S IN THE BOX

- 4-Output relay body (includes 4x 5A flat fuses)
- Bullet Connector Conversion Cable
- Electrical Tap x3
- Mounting Base
- Double-Sided Tape
- Cable Ties x2
- Waterproof Cover
- Rubber Ring
- Low-Profile Fuses (2A / 3A)

Set Contents



- | | | |
|--|---------------------|-------------------------------------|
| ① 4-Output Relay Main Unit (Flat Fuse 5A x4) | ② Electrical Tap x3 | ③ Mounting Base |
| ④ Double-Sided Tape | ⑤ Zip Ties x2 | ⑥ Bullet Connector Conversion Cable |
| ⑦ Water-resistant Cover | ⑧ Rubber Ring | ⑨ Low Profile Fuses (2/3A) |

Image: All components included in the KAEDEAR KDR-E2 Motorcycle Power Relay Kit.

PRODUCT FEATURES

- **Direct Connection:** Output terminals allow direct wiring without bullet terminals. Simply strip, insert, and tighten.
- **Compact Design:** Easily fits under seats or in confined spaces.
- **Key-ON Linkage & High Capacity:** Distributes up to 20A (5A per system) from ACC power, activating with ignition.
- **Waterproof Silicone Cover:** Protects against rain. Ensure wiring is installed downwards for proper drainage.
- **Easy Fuse Access:** The cover flips open for quick fuse inspection and replacement.

- **Versatile Use:** Ideal for managing power to smartphone holders, grip heaters, USB chargers, and other accessories.

SETUP AND INSTALLATION

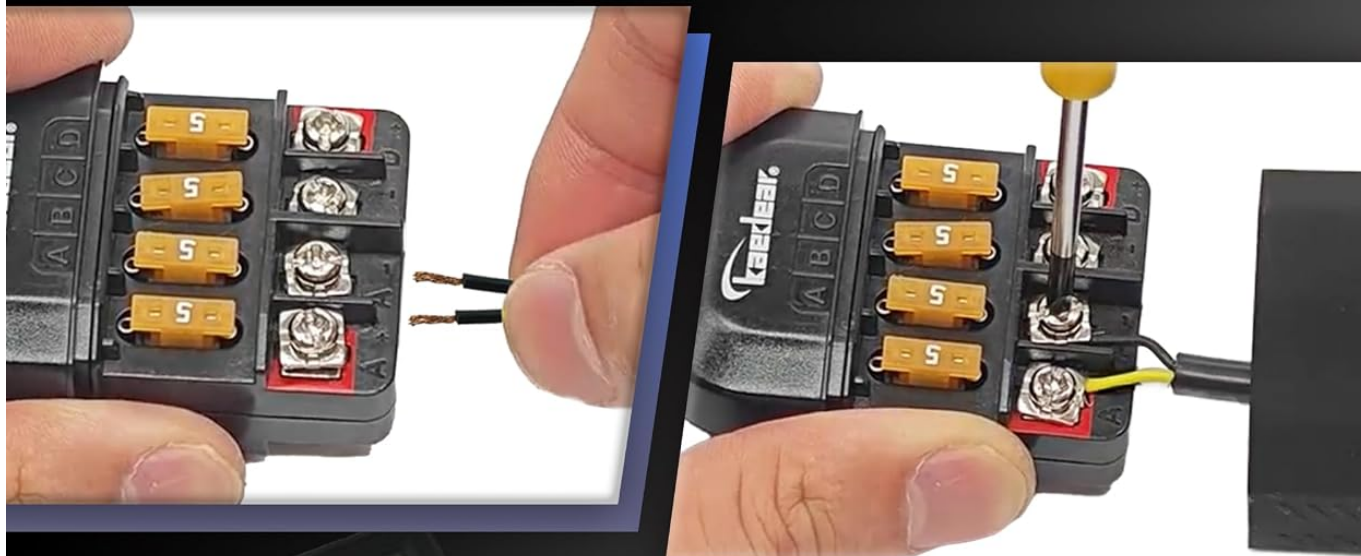
1. Direct Wiring Connection

The KDR-E2 allows for direct wiring connections without the need for bullet connectors. This simplifies the installation process.

1. Strip the insulation from the end of your accessory wire.
2. Insert the exposed copper wire into the desired terminal (A, B, C, or D).
3. Tighten the screw on the terminal to secure the wire firmly.

DIRECT CONNECTION

***Direct Wiring Connections without Bullet Connectors
Simple Design: Strip the Wiring Protection,
Insert the Copper Wire Section, and Tighten the Bolt.***



EASY FUSE MANAGEMENT

Simply pull back the silicone cap to expose the fuse for centralized management with a circuit tester.



Image: Step-by-step guide for direct wire connection to the terminals.

2. Main Power Connection (ACC Linkage)

Connect the main power input wires to your motorcycle's battery and an ACC (Accessory) power source. The ACC connection ensures the relay activates only when the ignition is turned on, preventing battery drain.

- Connect the main positive (+) wire to the motorcycle battery's positive terminal.
- Connect the main negative (-) wire to the motorcycle battery's negative terminal or a suitable ground point.
- Connect the ACC wire to an accessory power source that receives power when the ignition key is turned on.

KEY ON LINKED & LARGE CAPACITY POWER SUPPLY

Phone Holder (Qi Charging / USB Power), Grip Heater,
USB Power Supply, and Other Accessories

4 Terminals
each Handling
5A Max

TOTAL
AMOUNT
20A



WIRING



Image: Wiring diagram for connecting the relay to the motorcycle's power system.

When power is supplied to the ACC line, the relay contacts close, distributing direct power to each of the four systems.

Video: Official product video demonstrating the KDR-E2 Power Relay's features and wiring.

3. Water-Resistant Cover Installation

Install the silicone water-resistant cover and rubber ring to protect the terminals from moisture.

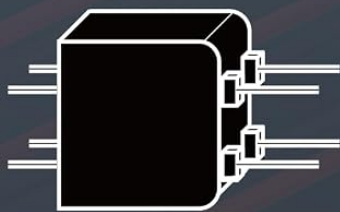
1. Pass the wiring through the water-resistant cover.
2. Connect the wiring to the main unit terminals.
3. Attach the water-resistant cover to the main unit.
4. Ensure the cover is securely in place to prevent rain penetration.



Junction Power Relay KDR-E2

Prevents Rain Penetration **SILICONE WATER-RESISTANT COVER & RUBBER RING**

WATER-RESISTANT COVER INSTALLATION METHOD



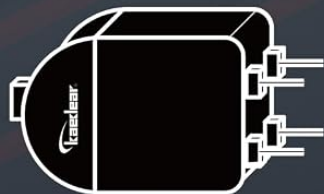
01

Pass the wiring through the water-resistant cover.



02

Connect the wiring to the main unit.



03

Attach the water-resistant cover.



04

Attach the water-resistant cover.

***The Terminals are Stainless Steel
with a Plated Finish, Making them
Resistant to Rust.
It is not Affected by Water Droplets.***



Image: Water-resistant cover installation method.

Caution: To prevent submersion in water, always install the wiring facing downwards. The terminals are rust-proofed, but corrosion may occur depending on the usage environment.

4. Mounting

The compact design allows for installation in tight spaces, such as under the seat. Use the included mounting base or double-sided tape for secure attachment.

kaedear®
shape your identity

Junction Power Relay KDR-E2

Easy to Install in Tight Spaces
(Such As Under The Seat)

COMPACT DESIGN

2.36"

1.57"

0.98"

※ Be sure to orient the wiring downward to prevent submersion.

Simple Installation with the Included Mounting Base or Double-Sided Tape.

Mounting Base

Double-Sided Tape

Image: Compact design and mounting options for the relay kit.

OPERATION

Once installed and wired correctly, the KAEDEAR KDR-E2 will automatically provide power to your connected accessories when the motorcycle's ignition is turned on. Power will be cut off when the ignition is turned off, protecting your battery from drain.

Each of the four output systems can handle a maximum of 5A, with a total maximum output of 20A for the entire unit.

MAINTENANCE

Fuse Management

The KDR-E2 is designed for easy fuse management. Simply flip open the silicone cover to access the fuses. This allows for quick inspection with a circuit tester and easy replacement if a fuse blows.



The advertisement features a black Kaelear Junction Power Relay (KDR-E2) with a silicone cover flipped open, revealing four orange fuses and four terminal blocks. The background is a dark, futuristic scene with a motorcycle and a tablet displaying various icons. The Kaelear logo is in the top left, and the product name is in the top right. The main title is in large, bold, white letters. Three circular icons on the right represent direct wiring, compact installation, and water resistance. The bottom right features the text 'TOTAL AMOUNT 20A' in large, bold, red and white letters.

kaelear®
shape your identity

Junction Power Relay KDR-E2

Centralized Management of Electrical Equipment
Junction Power Relay

*Direct Wiring without
Bullet Connectors*

*Can be Installed
in Small Spaces*

*With Water-resistant Cover
& Rubber Ring*

*Each of the 4 Terminals
can handle up to 5A*

**TOTAL
AMOUNT 20A**

Image: Easy fuse access by flipping the cover.

Caution: Low-profile fuses are easily damaged, so handle them carefully when removing or inserting them.

TROUBLESHOOTING

- **No Power to Accessories:**
 - Check if the motorcycle ignition is on.
 - Inspect all fuses in the KDR-E2 unit. Replace any blown fuses with the correct amperage (2A, 3A, or 5A).
 - Verify the main power connections to the battery and the ACC wire connection are secure.
 - Ensure accessory wires are properly stripped and tightened in their respective terminals.
- **Fuses Blow Frequently:**
 - The connected accessory may be drawing too much current. Ensure the accessory's current draw does not exceed 5A for its individual circuit or 20A total for the unit.
 - Check for short circuits in the accessory's wiring.
- **Water or Corrosion Issues:**
 - Ensure the water-resistant silicone cover is properly installed and sealed.
 - Verify that the unit is installed with wiring facing downwards to allow for drainage.
 - Regularly inspect terminals for signs of corrosion, especially in harsh environments.

SPECIFICATIONS

Attribute	Detail
Input Voltage	12-16V DC
Maximum Output	20A total (max 5A per system)
Body Size	2.36 x 1.57 x 0.98 inches (60 x 40 x 25mm)
Wiring Length	10.43 inches (265 mm)
Material	Polycarbonate
Connection Method	Battery +, -, ACC (Accessory Power)
Connector Type	Y Terminal
Contact Type	Normally Open
Mounting Type	Surface Mount (Double Sided Tape)
Specification Met	IP67 (Water-resistant, not fully waterproof)

WARRANTY AND SUPPORT

Warranty Period: 1 year from the purchase date. For business use, the warranty is 6 months.

Kaedeair offers continuous support post-purchase. For product or installation questions, our certified staff provides expert assistance. If defects arise due to malfunctions, we will assess and provide free repairs or exchanges under our warranty policy. Even after installation or use, we offer assistance. As a Japanese manufacturer, we prioritize customer service. Feel free to contact us for any inquiries.

Refer to our website for detailed warranty information and contact options.

ASK A QUESTION ABOUT THIS MANUAL

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.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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