

Kaedear KDR-E2

Kaedear KDR-E2 Motorcycle Junction Power Relay Instruction Manual

1. INTRODUCTION

The Kaedear KDR-E2 is a motorcycle junction power relay designed to simplify the management and distribution of power to multiple electrical accessories on your motorcycle. This unit allows for easy connection of up to four electrical components, providing a total output of 20A at DC12V, activated by the ACC power. Its compact design and waterproof features make it suitable for various installation environments.

4種の電装品を一括管理

Junction Power Relay



ギボシ端子なしで直接配線



狭いスペースでも設置可能



防水カバー&ゴムリング付き



最大4系統

合計 **20A**



An overview of the Kaedear KDR-E2 Motorcycle Junction Power Relay, highlighting its compact design and multiple output terminals.

2. PRODUCT FEATURES

- **Direct Connection:** Each of the four output terminals allows direct wiring connection without the need for crimp terminals. Simply strip the wire insulation, insert the copper wire, and tighten the bolt. This design simplifies the addition of electrical components.
- **Compact Design:** The unit's small size makes it easy to install even in narrow spaces, such as under the motorcycle seat.
- **Key-ON Interlock & High-Capacity Power Supply:** The relay utilizes ACC power, enabling it to distribute a total of 20A to up to four systems, ensuring accessories are powered only when the ignition is on.

- **Waterproof Silicone Cap:** Equipped with a silicone cap to help prevent rain ingress. Please note that the product is not completely waterproof. For optimal drainage, ensure wiring is installed downwards.
- **Easy Fuse Management:** Fuses are easily accessible by flipping up the silicone cap, allowing for convenient inspection and replacement using a circuit tester.
- **Integrated Accessory Management:** Ideal for managing power to various motorcycle accessories such as smartphone holders (with Qi charging or USB power), grip heaters, and other USB-powered devices.

3. PACKAGE CONTENTS

Verify that all the following items are included in your package:

- 4-output relay unit (with 5A fuses x 4)
- Crimp terminal conversion cable
- Electrical tap x 3
- Mount base
- Double-sided tape
- Cable ties x 2
- Waterproof cover
- Rubber ring
- Low-profile fuses (2A / 3A)

セット内容



- | | | | |
|------------------------|----------------|-----------|----------------|
| ① 4出力リレー本体(平型ヒューズ5A×4) | ② エレクトリカルタップ×3 | | |
| ③ マウントベース | ④ 両面テープ | ⑤ 結束バンド×2 | |
| ⑥ ギボン変換ケーブル | ⑦ 防水カバー | ⑧ ゴムリング | ⑨ 低背ヒューズ(2/3A) |

A complete view of all items provided with the Kaedear KDR-E2, including the relay unit, fuses, cables, mounting hardware, and waterproof accessories.

4. SAFETY PRECAUTIONS

- **Professional Installation Recommended:** Installation requires specialized knowledge and skills. If you are unsure, please consult a qualified technician.
- **Wiring Direction:** To prevent water immersion, always ensure the wiring is installed with a downward orientation for proper drainage.
- **Corrosion Risk:** While the terminals are rust-proofed, corrosion may occur depending on the specific usage environment. Regular inspection is recommended.
- **Fuse Handling:** Low-profile fuses are delicate. Handle them with care when removing or inserting to

prevent damage.

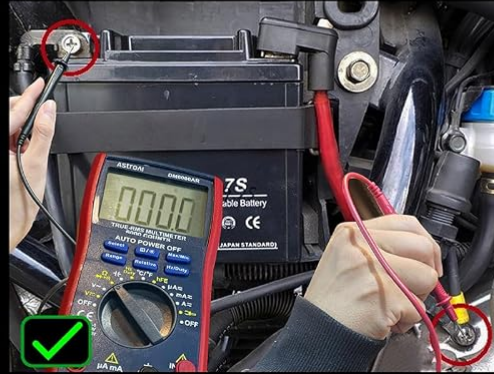
- **Voltage Drop:** When connecting accessories, ensure proper grounding and check for any significant voltage drop, especially if using non-standard terminals.

お取り付けには専門知識、技術を必要とします

電圧降下についてわからない方(業者様を含む)は以下をご確認ください



- ▶ マイナスをバッテリーマイナス端子に直接配線。

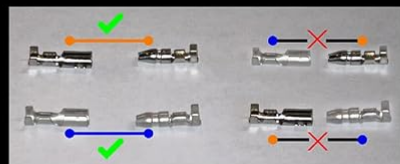


- ▶ テスターを使用してバッテリーマイナス端子とアースポイントの抵抗値が0Ωであること。

⚠ NG例



- ▶ ハンドルやタンクなど抵抗値が大きいポイントでアース接続しないでください。



- ▶ ギボシ端子のオス・メスは製造元が同一の物をご使用ください。製造元が異なる場合は接触面積低下による電圧降下にもご注意ください。

電源の確認方法



- ▶ **負荷電圧の測定方法**
配線が接続され回路が成立している、電源スイッチがON担っている、SAEコネクタの隙間にプローブを当てて計測。

Yokohama Moto Accessory

Visual guidance on correct and incorrect wiring practices, emphasizing the importance of proper grounding and checking for voltage drop.

5. SETUP AND INSTALLATION

5.1 Direct Wiring Connection

The KDR-E2 features a direct connection system for its output terminals:

1. Strip approximately 5-7mm of insulation from the end of the accessory wire.

2. Insert the exposed copper wire into the desired output terminal (A, B, C, or D).
3. Tighten the screw on the terminal firmly to secure the wire.

This method eliminates the need for crimp terminals, simplifying the wiring process.

kaedear
shape your identity

ジャンクションパワーリレー KDR-E2

ダイレクトコネクション

ギボシ端子なしで直接、配線を接続
配線の被覆を剥き、銅線部分を差し込んでボルトを締めるだけの簡単設計



手軽にヒューズ管理

シリコンキャップをめくるだけで
ヒューズが露出し、サーキットテスターで
一括管理

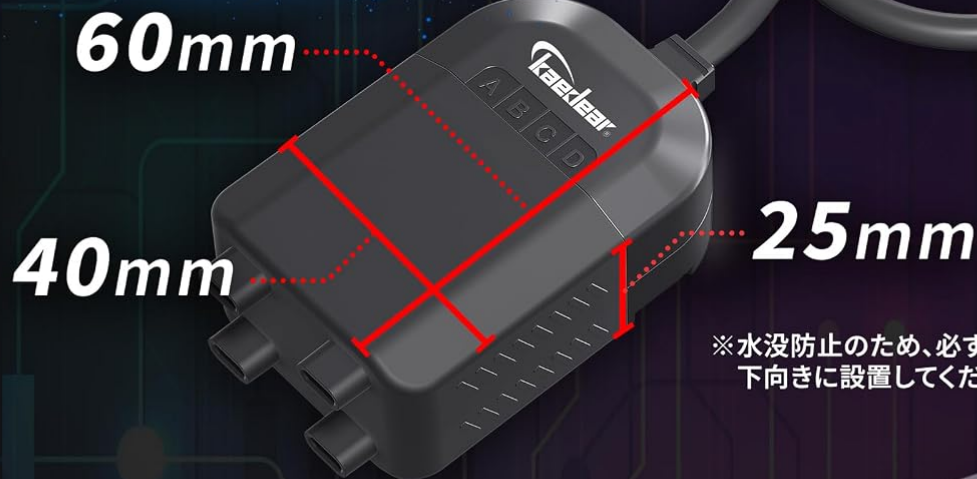


Illustrates how to connect wires directly to the relay terminals by stripping the insulation and tightening the bolts, eliminating the need for crimp terminals.

5.2 Mounting the Unit

The compact design of the KDR-E2 allows for flexible mounting. Use the provided mount base and screws or the double-sided tape to secure the unit in a suitable location, such as under the seat or within a fairing. Ensure the chosen location is protected from direct exposure to heavy water spray.

シート下など狭いスペースにも設置しやすい
コンパクト設計



付属のマウントベースまたは両面テープで
手軽に取り付け



Shows the compact dimensions (60x40x25mm) of the relay and options for mounting using the included mount base or double-sided tape, suitable for narrow spaces.

5.3 Waterproof Cover Installation

To enhance water resistance, install the silicone waterproof cover and rubber ring:

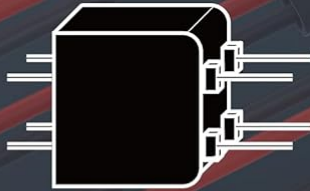
1. Pass the main wiring through the waterproof cover.
2. Connect the wires to the main unit as described in section 5.1.
3. Fit the waterproof cover onto the unit.
4. Secure the cover with the provided rubber ring.

Remember to orient the wiring downwards for drainage.

雨の侵入を防ぐ シリコン防水カバー&ゴムリング

完全防水ではありません

防水カバー取付方法



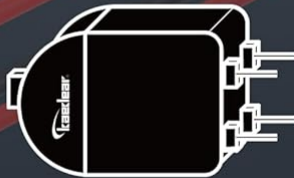
01

防水カバーに
配線を通す



02

本体に配線を
接続する



03

防水カバーを
装着する



04

ゴムリングで
カバーを固定

端子はステンレスでメッキ処理により
錆びにくく水滴が付着した程度では
影響を受けません



Step-by-step guide on how to install the silicone waterproof cover and secure it with the rubber ring to protect against rain.

Note: The product is not completely waterproof.

6. OPERATING INSTRUCTIONS

The Kaedear KDR-E2 is designed for simple operation, integrating with your motorcycle's ACC power circuit. Once correctly installed, the relay will automatically provide power to connected accessories when the motorcycle's ignition is turned to the 'ON' position (Key-ON interlock). Power will be cut when the ignition is turned 'OFF'.

This ensures that your accessories do not drain the battery when the motorcycle is not in use.

キーON連動&大容量電源供給

スマホホルダー (Qi充電 / USB電源)、グリップヒーター、
USB電源、その他アクセサリーの電源一括管理

最大4系統

合計**20A**

4系統のヒューズを
合計20Aまで自由に分配可能



配線接続



A visual representation of the relay's ability to distribute a total of 20A to four systems, activated by the ACC power, with a wiring length of 265mm.

Your browser does not support the video tag.

Official video demonstrating the functionality and wiring of the Kaedear KDR-E2 Junction Power Relay, illustrating its power distribution capabilities.

7. MAINTENANCE

7.1 Fuse Management

The KDR-E2 is designed for easy fuse inspection and replacement. If an accessory stops working, the fuse for that circuit may have blown:

1. Carefully lift the silicone cap to expose the fuses.
2. Visually inspect the fuses for a broken filament. A circuit tester can also be used for more precise diagnosis.
3. If a fuse is blown, gently pull it out. Remember that low-profile fuses are fragile, so handle with care.
4. Replace the blown fuse with a new fuse of the correct amperage (e.g., 5A, 2A, or 3A as supplied). Using a fuse with an incorrect amperage can damage the unit or connected accessories.
5. Ensure the silicone cap is properly re-seated after maintenance to maintain water resistance.

7.2 General Care

Periodically check the wiring connections for tightness and inspect the unit for any signs of corrosion, especially in harsh environments. Keep the unit clean and free from excessive dirt or debris.

8. TROUBLESHOOTING

- **No Power to Accessories:**

- Check if the motorcycle ignition is in the 'ON' position.
- Inspect the fuses as described in the Maintenance section. Replace any blown fuses.
- Verify all wiring connections (battery +, -, ACC, and accessory outputs) are secure and correctly connected.
- Ensure there is no significant voltage drop in the wiring.

- **Intermittent Power:**

- Check for loose wiring connections at the relay terminals or accessory side.
- Inspect for any signs of corrosion on the terminals or wires.

- **Water Ingress:**

- Ensure the waterproof silicone cap and rubber ring are correctly installed and sealed.
- Verify that the wiring is routed downwards from the unit to facilitate drainage.

If problems persist, please refer to the online instruction manual or contact Kaedear customer support.

9. SPECIFICATIONS

Specification	Value
Input Voltage	12-16V
Maximum Output	4 systems, total 20A
Body Size	60 × 40 × 25 mm
Wiring Length	265 mm
Material	Polycarbonate
Connection Method	Battery +, -, ACC (Accessory Power)

10. WARRANTY AND SUPPORT

10.1 Manufacturer Warranty

The Kaedear KDR-E2 comes with a **1-year manufacturer's warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. If a product defect is diagnosed, Kaedear will provide free repair or replacement in accordance with its warranty policy.

For commercial use, the warranty period is halved (e.g., 6 months for a 1-year warranty). Please refer to the detailed manufacturer's warranty policy on the official Kaedear website for full terms and conditions.

10.2 Customer Support

Kaedear is committed to customer satisfaction and provides support even after purchase. For any product inquiries or assistance with motorcycle installation, our staff, who hold national maintenance qualifications, are available to provide expert advice.

Please feel free to contact us with any questions or concerns, even after installation or use. As a Japanese manufacturer, we strive to provide excellent service with a spirit of hospitality.

10.3 Online Instruction Manual

In an effort to reduce environmental impact, a paper instruction manual is not included with the product. The full instruction manual can be viewed or downloaded from the official Kaedear website.

Access Steps:

1. Visit the official Kaedear website: <https://www.kaedear.com/>
2. Navigate to the product page for the KDR-E2.
3. Look for the option to view or download the instruction manual.

取扱説明書について

環境負荷の軽減を目指した脱炭素化への取り組みとして、紙媒体での同封を控えさせていただいております。公式サイトの商品ページから閲覧またはダウンロードをお願いいたします。

閲覧・ダウンロード手順

STEP1

QRコードを読み取り、公式サイトへアクセスしてください。
<https://www.kaedear.com/>



STEP2

公式サイト右上のアイコンより品番や商品名を検索してください。



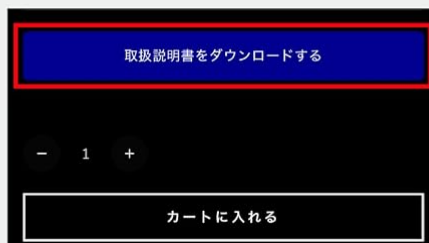
〈PC版〉

〈スマホ版〉



STEP3

商品ページを下にスクロールしていただきカートボックス上にあるボタンをクリックしてダウンロードしてください。



Details on how to view or download the digital instruction manual from the official Kaedear website using a QR code or by searching the product page.