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> AHL Starter Solenoid Relay Instruction Manual for Honda Motorcycles (Model AHL-RI-026)

AHL AHL-RI-026

AHL Starter Solenoid Relay Instruction Manual

Model: AHL-RI-026

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your AHL Starter Solenoid Relay. This component is essential for the proper functioning of your motorcycle's starting system, acting as an electrical switch to deliver power from the battery to the starter motor. Please read this manual thoroughly before installation or use to ensure safe and correct application.

PRODUCT OVERVIEW

The AHL Starter Solenoid Relay is designed as a direct OEM replacement for various Honda motorcycle models. It features a durable construction with copper contact material for reliable performance.



Figure 1: Front view of the AHL Starter Solenoid Relay, showing the main body and terminals.



Figure 2: The starter solenoid relay packaged with its fuse and mounting bolts.



Figure 3: Exploded diagram illustrating the internal components of a typical starter solenoid relay, including the screw nut, copper foot, moving spring, iron core, premium copper wire, and magnetic plate.

Unboxing and Component Overview

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Video 1: This video demonstrates the unboxing of the AHL Starter Solenoid Relay, showing the product and its included fuse. It provides a 360-degree view of the relay, highlighting its terminals and overall construction.

COMPATIBILITY

This AHL Starter Solenoid Relay (Model AHL-RI-026) is compatible with a wide range of Honda motorcycle models. Please verify your specific model and year against the list below:

- Honda CB1000 BIG1 (1993-1996)
- Honda CBR1000RR (2004-2007)
- Honda VTR1000 VTR1000F SUPER HAWK (1998-2005)
- Honda ST1100 (1993-2002)
- Honda VT1100C2 (1995)
- Honda VTX1300 (2003-2009)
- Honda CH250 ELITE (1989-1990)
- Honda CBR600 (1991-1998)
- Honda CBR600RR CBR600RA (2007-2010)
- Honda VF750C MAGNA (1994-2003)
- Honda VFR750 VFR750F INTERCEPTOR (1990-1997)
- Honda PC800 PACIFIC COAST (1989-1998)
- Honda VFR800 INTERCEPTOR (1998-2009)
- Honda CBR900RR Fireblade (1992-2000)
- Honda CBR929 CBR929RE CBR929RR (2000-2001)
- Honda CBR954 CBR954RR (2002-2003)

- Honda ANF125 Innova (2003-2004)
- Honda CA125 R/S/T/V/W Rebel (1995-1999)
- Honda CB1100 SF-Y/SF-1 X11 (2000-2001)
- Honda CB1300 (2003-2004)
- Honda CB350 K4 (1974-1976)
- Honda CB500 R/T/V/W/X/Y (1993-2003)
- Honda CB500 SW/SX/SY/S1/S2 (1998-2002)
- Honda CB600 F2Y/F23/F24 Hornet (2000-2004)
- Honda CB600 FS-Y/FS-1/FS-2 Hornet (2000-2003)
- Honda CB600 FW/FX Hornet (1998-1999)
- Honda CB750SC CB 750 SC NIGHTHAWK 750 (1991-2003)
- Honda CB900 F2 Hornet (2001-2004)
- Honda CBF250 (2004)
- Honda CBF500 / ABS (2004)
- Honda CBF600 (2004)
- Honda CBR1000 FP/FR/FS/FT/FV/FW/FX (1992-1999)
- Honda CBR1000F (1993-1996)
- Honda CBR1000XX (1997-2003)
- Honda CBR125 RR (2004)
- Honda CBR250R (2011-2013) (All models)
- Honda CBR500R (2013-2015)
- Honda CBR600 F2 (1991-1994)
- Honda CBR600 F3 (1995-1998)
- Honda CBR600 F4 (1999-2000)
- Honda CBR600 F4i (2001-2003)
- Honda CBR600RR (2003-2014)
- Honda CBR900RR CBR 900 RR (2000-2003)
- Honda CMX250 Rebel (1996-Up)
- Honda CRF250X (2004-2012)
- Honda CX500 TC Turbo (1982-1983)
- Honda F6C CV/CW/CX/CY/C1 (1500cc) (1997-2001)
- Honda FES125 W/Y Pantheon (1998-2004)
- Honda FES250 W/X Foresight (1998-2002)
- Honda FJS600 1-3 Silverwing (2001-2004)
- Honda FSC600A (2003-2013)
- Honda FSC600D (2003-2010)
- Honda FX650 X/Y Vigor (1999-2003)
- Honda GL1500C GL 1500 C VALKYRIE (1997-2003)
- Honda NC700X (2012-2013)
- Honda NES125 125 (2000-2003)
- Honda Nighthawk 250 CB250 (1991-2008)
- Honda NSS 300 (2014)
- Honda NT650 V-W/V-X Deauville (1998-1999)
- Honda NT650 V-Y/V1-3 Deauville (2000-2004)

- Honda PS250 Ruckus (2005-2006)
- Honda RVF750R RVF 750 R (1994-1999)
- Honda RVT1000R RVT 1000 R (2000-2006)
- Honda SES125 Dylan (2003-2004)
- Honda SH125 (2001-2003)
- Honda SLR650 V/W/X (1997-1999)
- Honda ST1300 ST 1300 (2003-2011)
- Honda VT1100 SHADOW SABRE SPIRIT AERO (1997-2007)

SAFETY INFORMATION

Always prioritize safety when working with electrical components on your motorcycle. Failure to follow safety precautions can result in serious injury or damage to your vehicle.

- **Disconnect the Battery:** Before beginning any electrical work, always disconnect the negative terminal of the motorcycle battery to prevent accidental short circuits or electrical shocks.
- **Wear Protective Gear:** Use appropriate personal protective equipment, including safety glasses and gloves.
- **Consult a Professional:** If you are unsure about any step of the installation process, it is recommended to seek assistance from a qualified motorcycle mechanic.
- **Check for Proper Fit:** Ensure the new relay fits securely and all connections are tight before reattaching the battery.
- **Avoid Water Exposure:** Keep electrical components dry to prevent corrosion and malfunction.

SETUP AND INSTALLATION

Replacing a starter solenoid relay typically involves a few key steps. Refer to your motorcycle's service manual for specific location and wiring diagrams.

1. **Locate the Old Relay:** Identify the existing starter solenoid relay on your motorcycle. It is usually found near the battery or starter motor.
2. **Disconnect Battery:** Disconnect the negative (-) terminal of your motorcycle battery.
3. **Disconnect Wiring:** Carefully disconnect all electrical wires and cables connected to the old relay. Note their positions for correct reinstallation.
4. **Remove Old Relay:** Unmount the old relay from its bracket or mounting point.
5. **Install New Relay:** Mount the new AHL Starter Solenoid Relay in the same location.
6. **Connect Wiring:** Reconnect all electrical wires and cables to the new relay, ensuring they are securely attached to the correct terminals.
7. **Insert Fuse:** Insert the provided fuse into the designated slot on the relay.
8. **Reconnect Battery:** Reconnect the negative (-) terminal of your motorcycle battery.
9. **Test Functionality:** Attempt to start the motorcycle to verify proper operation of the new relay.

Note: If you are unfamiliar with electrical work on motorcycles, it is highly recommended to consult a professional mechanic for installation.

OPERATION

The starter solenoid relay functions as an electromagnetic switch. When you press the starter button on your motorcycle, a small electrical current is sent to the relay's coil. This energizes the coil, creating a magnetic field that pulls a plunger, closing a set of heavy-duty contacts. These contacts then allow a large current to flow directly from the battery to the starter motor, engaging it and cranking the engine. Once the starter button is released, the coil de-energizes, the contacts open, and the current to the starter motor is cut off.

MAINTENANCE

The AHL Starter Solenoid Relay is designed for durability and minimal maintenance. However, periodic checks can help ensure its longevity and reliable performance:

- **Inspect Connections:** Regularly check all electrical connections to the relay for tightness and corrosion. Loose or corroded connections can impede current flow and cause starting issues.
- **Check for Damage:** Visually inspect the relay for any signs of physical damage, such as cracks in the casing or melted plastic.
- **Fuse Inspection:** Ensure the fuse is properly seated and not blown. A blown fuse indicates an electrical overload and should be replaced with a fuse of the correct amperage.
- **Keep Clean and Dry:** Keep the relay and surrounding area clean and free from dirt, debris, and moisture.

TROUBLESHOOTING

If your motorcycle is experiencing starting issues, the starter solenoid relay might be a contributing factor. Here are some common symptoms and troubleshooting steps:

| Symptom | Possible Cause | Solution |
|---|--|--|
| Clicking sound, but engine does not crank. | Low battery voltage, corroded battery terminals, faulty starter solenoid relay. | Check battery charge and terminals. If battery is good, the relay may be faulty and require replacement. |
| No sound or response when starter button is pressed. | Blown fuse, faulty starter button, open circuit in wiring, completely dead battery, faulty starter solenoid relay. | Check the relay's fuse. Verify battery charge. Inspect wiring for breaks. Test starter button functionality. |
| Starter motor continuously runs after engine starts. | Stuck starter solenoid relay contacts. | Immediately disconnect the battery. The relay is faulty and needs replacement. |

If these steps do not resolve the issue, further diagnosis by a qualified mechanic may be necessary.

SPECIFICATIONS

| Feature | Detail |
|---------------------|---------------------------|
| Brand | AHL |
| Model Number | AHL-RI-026 |
| Connector Type | Screw |
| Contact Material | Copper |
| Contact Type | Normally Open |
| Mounting Type | Screw Mount |
| Operation Mode | Electric |
| Number of Terminals | 3 |
| Specification Met | OEM |
| Item Weight | 3.36 ounces |
| Package Dimensions | 2.32 x 2.32 x 2.05 inches |

WARRANTY AND SUPPORT

Specific warranty information for the AHL Starter Solenoid Relay is not provided in the product details. For warranty claims or technical support, please refer to the seller's return policy or contact AHL directly through their official channels. The seller, AHL-US, offers a return policy with a duration of 30 days.

For additional information or to explore other AHL products, you may visit the [AHL Store on Amazon](#).