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› HUAREW 12V 100A 4 Terminals Starter Solenoid Relay Instruction Manual

HUAREW HWX-725-06153A

HUAREW 12V 100A 4 Terminals Starter Solenoid Relay Instruction Manual

PRODUCT OVERVIEW

This document provides instructions for the HUAREW 12V 100A 4 Terminals Starter Solenoid Relay, designed for various lawn mowers and tractors. This solenoid acts as an electrical switch, allowing current to flow to the starter motor when activated, enabling engine ignition.

The solenoid features 4 terminals: two 1/4" threaded top terminals for main power connections and two spade terminals for control connections.

PRODUCT SIZE

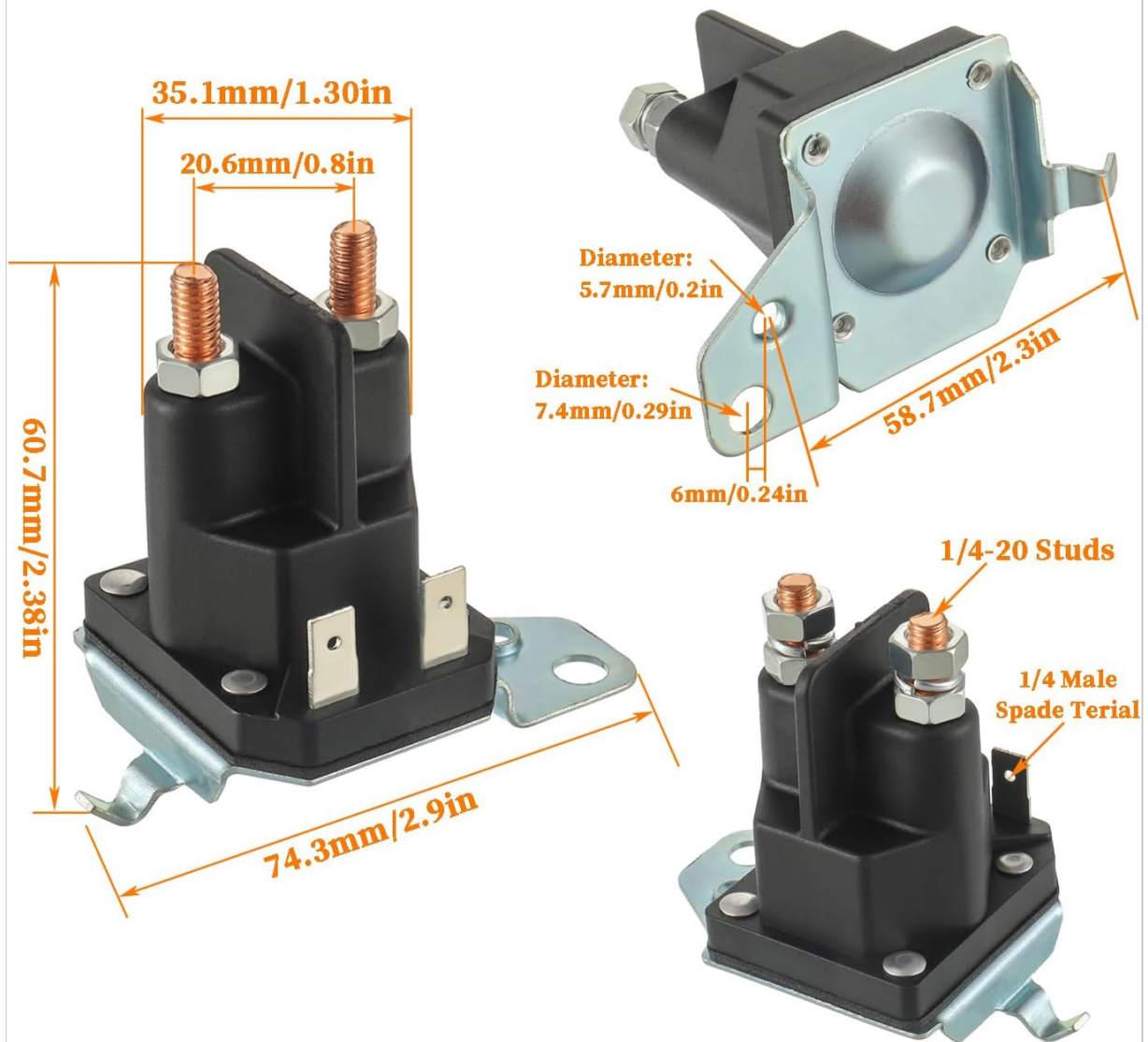


Image: Front view of the HUAREW 12V 100A 4 Terminals Starter Solenoid Relay, showing the main terminals and mounting bracket.

SPECIFICATIONS

- **Voltage:** 12V DC
- **Current Rating:** 100A
- **Terminals:** 4 (Two 1/4" threaded top terminals, two spade terminals)
- **Mounting:** Flat 180 (F180) bracket, threaded (female)
- **Material:** Premium plastic case, copper-cadmium contact material
- **Model Number:** HWX-725-06153A
- **Replaces OEM Part Numbers:** 725-06153A, 725-06153
- **Package Dimensions:** 6.5 x 3.66 x 2.72 inches
- **Item Weight:** 5.5 ounces

12V STARTER SOLENOID RELAY



Easy to install This starter solenoid has the threaded (female) bracket



High Quality Material

The case is made of premium plastic and the contact material is copper-cadmium, which ensures maximum durability



Image: Detailed dimensions of the starter solenoid relay, showing measurements in millimeters and inches for various parts of the unit.

COMPATIBILITY

This starter solenoid is compatible with a range of riding lawn mowers and tractors, including but not limited to:

- Cub Cadet XT1, XT2 Enduro, RZT, LT1, ZT1, ZT2
- Specific Cub Cadet models: XT1-46", RZT L54 Fab, XT1 LT46, XT1 Enduro 46in, ZT1
- MTD
- Troy-Bilt
- Craftsman
- White Outdoor

It is designed to replace OEM part numbers 725-06153A and 725-06153.

PRODUCT ADVANTAGES



**Durable
and reliable**



**Corrosion
protection**



**Moisture
proof**



**Heat
resistant**

Image: Visual representation of the solenoid with text indicating voltage (12VDC), mounting type (Flat 180, 100A), and compatible brands/OEM part numbers.

APPLICATIONS



Image: A collage showing various vehicles and equipment where this starter solenoid can be applied, such as tractors, ATVs, UTVs, golf carts, and snowmobiles.

INSTALLATION GUIDE

Safety First: Before beginning any installation, ensure the vehicle's battery is disconnected to prevent electrical shock or damage to the system. Wear appropriate safety gear, including gloves and eye protection.

1. **Locate the Old Solenoid:** Identify the existing starter solenoid on your lawn mower or tractor. It is typically mounted near the battery or starter motor.
2. **Disconnect Wiring:** Carefully disconnect all wires from the old solenoid. Note the position of each wire for correct re-connection. It is recommended to take a photo before disconnecting.
3. **Remove Old Solenoid:** Unbolt or unmount the old solenoid from its bracket.
4. **Mount New Solenoid:** Position the new HUAREW solenoid (model HWX-725-06153A) using its threaded (female) bracket. Secure it firmly.
5. **Connect Wiring:** Reconnect the wires to the new solenoid's terminals. Ensure the two 1/4" threaded top terminals are used for the main power connections and the two spade terminals for the control connections. Verify all connections are tight and secure.
6. **Reconnect Battery:** Once all connections are secure, reconnect the vehicle's battery.
7. **Test Functionality:** Attempt to start the engine to confirm proper installation and operation of the

new solenoid.



REPLACE CORRECTLY

VOLTAGE: 12VDC

MOUNTING: Flat 180(F180)

intermittent/:zinc plated,100A

**Replaces MTD, Cub Cadet,
Troy-Bilt , Craftsman, White Outdoor**

OEM # 725-06153, 725-06153A



Image: Close-up views of the solenoid highlighting its threaded bracket for easy installation and the high-quality plastic case with copper-cadmium contacts.

OPERATING PRINCIPLES

The starter solenoid acts as an electromagnetic switch. When the ignition key is turned to the "start" position, a small electrical current flows from the ignition switch to the solenoid's control terminals (spade terminals). This current energizes an electromagnet inside the solenoid, which then pulls a plunger, closing a high-current circuit between the battery and the starter motor (via the 1/4" threaded terminals).

This allows a large amount of current to flow to the starter motor, engaging the engine. Once the engine starts and the ignition key is released, the current to the solenoid's control terminals is cut, de-energizing the electromagnet and opening the high-current circuit, thus disengaging the starter motor.

MAINTENANCE

The HUAREW 12V 100A 4 Terminals Starter Solenoid Relay is designed for durability and requires minimal maintenance under normal operating conditions.

- **Regular Inspection:** Periodically inspect the solenoid and its connections for any signs of corrosion, loose wiring, or physical damage.
- **Clean Connections:** If corrosion is present on the terminals, disconnect the battery and carefully

clean the terminals and wire connectors with a wire brush and battery terminal cleaner. Ensure all connections are tight after cleaning.

- **Environmental Protection:** While the solenoid offers moisture protection, avoid direct exposure to excessive water or harsh chemicals to prolong its lifespan.

ORIENTATION DISPLAY

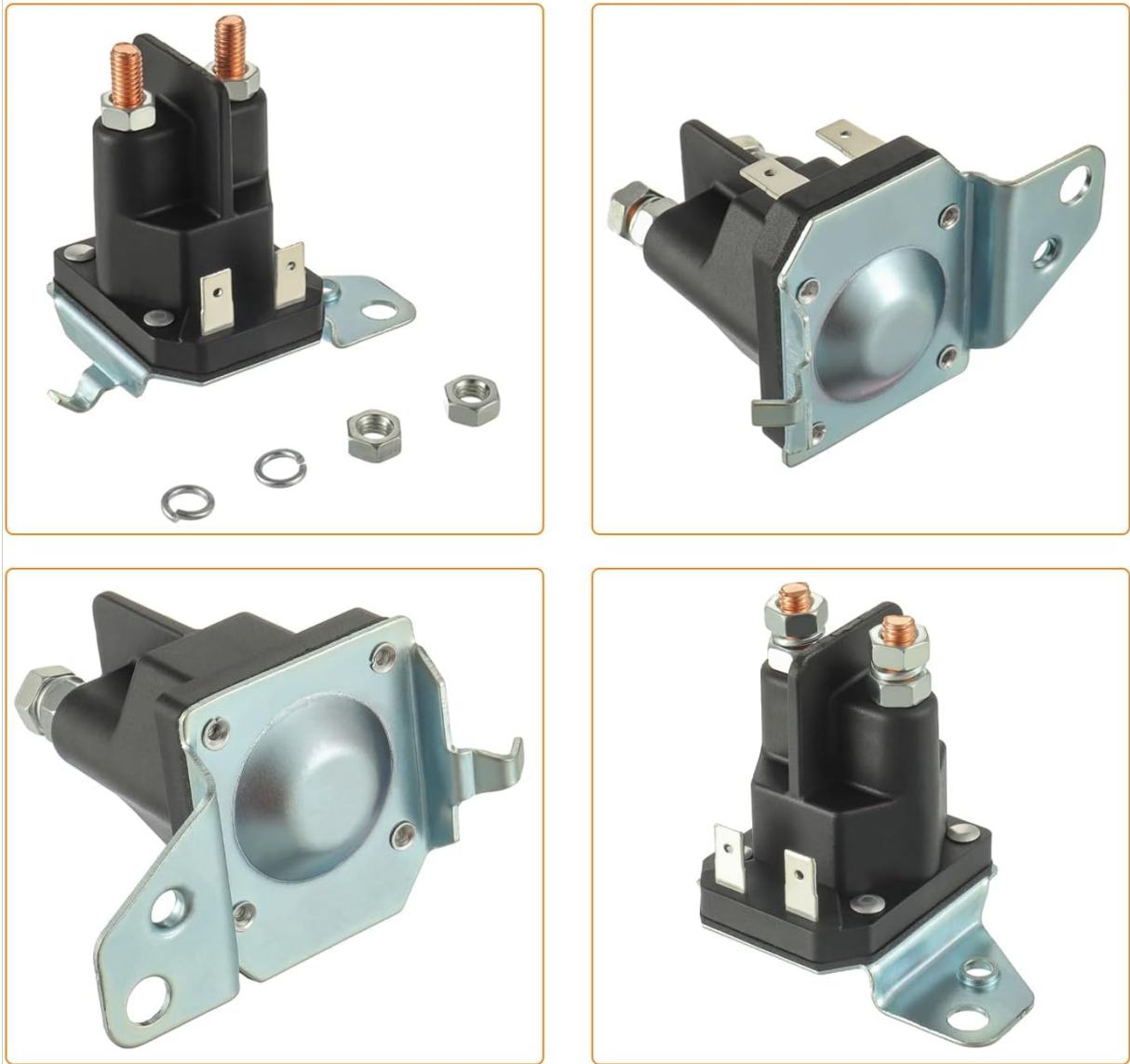


Image: Icons representing key features of the solenoid: durability, corrosion protection, moisture proofing, and heat resistance, indicating its robust design.

TROUBLESHOOTING

If your engine fails to start after installing the new solenoid, consider the following:

- **No Click from Solenoid:**
 - Check battery charge.
 - Inspect all wiring connections to the solenoid and ignition switch for looseness or corrosion.
 - Verify the ignition switch is functioning correctly.
- **Solenoid Clicks but Starter Does Not Engage:**
 - This may indicate a faulty starter motor or a low battery that cannot provide enough current.
 - Check the main power cables for corrosion or damage.

- **Solenoid Stays Engaged:**

- This is rare but could indicate a short in the ignition switch circuit or a stuck solenoid.
Disconnect the battery immediately.

If issues persist after checking these points, it is recommended to consult a qualified technician.

WARRANTY AND SUPPORT

For warranty information or technical support regarding your HUAREW 12V 100A 4 Terminals Starter Solenoid Relay, please refer to the seller's specific policies or contact the manufacturer directly.

Manufacturer: HUAREW