Holy Stone HS720 & HS720E

Holy Stone Replacement Drone Motor Arm User Manual

For HS720 & HS720E GPS Drones

1. Introduction

This manual provides essential information for the proper installation, maintenance, and care of your Holy Stone Replacement Drone Motor Arm. This part is specifically designed for the Holy Stone HS720 and HS720E GPS drone models. Please read this manual thoroughly before attempting any installation or repair to ensure safe and correct operation.

2. Product Overview

The Holy Stone Replacement Drone Motor Arm is a genuine spare part engineered to restore the functionality of your HS720 or HS720E drone. This specific arm is for the **Front Right** position of the drone.



Figure 2.1: Holy Stone Replacement Drone Motor Arm (Front Right) for HS720/HS720E.

Key features of this replacement part include:

- **Compatibility:** Specifically designed for Holy Stone HS720 and HS720E GPS drones.
- **Integrated Brushless Motor:** Equipped with a brushless electric motor for efficient and reliable performance.
- **Durable Construction:** Made from high-quality materials to withstand typical drone operation and minor impacts.
- **Exact Fit:** Ensures seamless integration with your drone's existing structure.

3. Compatibility

This replacement motor arm is exclusively compatible with the following Holy Stone drone models:

- Holy Stone HS720
- Holy Stone HS720E

It is crucial to ensure you are replacing the correct arm. This part is the**Front Right** arm. Refer to the diagram below to identify the arm positions on your drone.



Figure 3.1: Drone arm identification. This replacement part corresponds to the 'A1 Right Front' position.

4. Installation Guide

Replacing a drone motor arm requires careful attention to detail. If you are not comfortable performing this repair, it is recommended to seek assistance from an experienced technician or refer to official Holy Stone repair videos/guides for your specific drone model.

Warning: Disconnect the drone's battery before beginning any repair work to prevent accidental power-on or electrical short circuits.

Required Tools (Not Included):

- Small Phillips head screwdriver
- Tweezers or small pliers (for delicate wire handling)
- Heat shrink tubing and heat gun (if original connections are cut and need re-soldering/insulation)

Installation Steps:

1. **Power Off and Disconnect:** Ensure the drone is powered off and the battery is removed.
2. **Access the Damaged Arm:** Carefully locate the damaged front right arm. Depending on the drone model, you may need to remove certain covers or screws to access the arm's mounting points and wiring.
3. **Disconnect Wiring:** Gently disconnect the motor wires from the drone's main circuit board. Note the

color coding or position of each wire before disconnecting to ensure correct re-connection. Take photos if necessary.

4. **Remove Damaged Arm:** Unscrew any screws securing the damaged arm to the drone's frame. Carefully remove the arm, ensuring no other components are damaged.
5. **Install New Arm:** Position the new Holy Stone Replacement Drone Motor Arm (Front Right) in place. Ensure it aligns correctly with the mounting holes.
6. **Connect Wiring:** Reconnect the motor wires to the circuit board, matching the original connections. Ensure connections are secure and properly insulated.
7. **Secure the Arm:** Fasten the new arm with the screws removed in step 4. Do not overtighten.
8. **Reassemble Drone:** Reattach any covers or components that were removed to access the arm.
9. **Initial Test:** Reinsert the battery. Perform a low-power test of the motor to ensure it spins freely and correctly before attempting flight.

5. Usage Considerations

After installing the new motor arm, it is important to perform a thorough pre-flight check:

- Ensure all screws are tightened securely.
- Verify that the motor spins freely and without obstruction.
- Check that the propeller is correctly attached and balanced on the new motor.
- Perform a short, low-altitude test flight in a safe, open area to confirm stability and responsiveness.

6. Maintenance

To prolong the life of your drone's motor arms and motors, consider the following maintenance tips:

- **Regular Inspection:** Periodically inspect the motor arms for any signs of cracks, bends, or damage, especially after a hard landing or crash.
- **Motor Cleanliness:** Keep the motor free from dust, dirt, and debris. Use compressed air or a soft brush to gently clean the motor housing and propeller shaft.
- **Propeller Check:** Ensure propellers are not bent, chipped, or cracked, as damaged propellers can cause excessive vibration and stress on the motor. Replace damaged propellers immediately.
- **Wire Integrity:** Check motor wires for fraying, cuts, or loose connections.

7. Troubleshooting

If you encounter issues after replacing the motor arm, consider these common troubleshooting steps:

- **Motor Not Spinning:**
  - Check all wire connections to ensure they are secure and correctly matched.
  - Verify that no debris is obstructing the motor's rotation.
  - Ensure the motor is properly seated in the arm and not loose.
- **Unusual Noise/Vibration:**
  - Inspect the propeller for damage or imbalance.
  - Check if the motor arm is securely fastened to the drone frame.

- Ensure no wires are rubbing against moving parts.

- **Drone Drifts After Installation:**
  - Perform a compass calibration and gyroscope calibration as per your drone's main user manual.
  - Ensure the correct arm (Front Right) was installed and all connections are solid.

If problems persist, contact Holy Stone customer support for further assistance.

8. Specifications

Feature	Detail
Product Name	Replacement Drone Motor Arm
Compatibility	Holy Stone HS720, HS720E
Arm Position	Front Right
Motor Type	Brushless Electric Motor
Color	Black
Product Dimensions	12 x 15.5 x 4 cm
Product Weight	35 g
Manufacturer Reference	US-HS720JBFR

9. Warranty Information

This Holy Stone Replacement Drone Motor Arm is covered by the manufacturer's standard warranty. For detailed information regarding warranty terms, conditions, and duration, please refer to the official Holy Stone website or the warranty card included with your original drone purchase. Keep your proof of purchase for any warranty claims.

10. Customer Support

For technical assistance, troubleshooting not covered in this manual, or inquiries about replacement parts, please contact Holy Stone customer support through their official channels:

- **Official Website:** Visit the Holy Stone official website for support resources, FAQs, and contact forms.
- **Amazon Store:** You can also visit the Holy Stone Store on Amazon for product information and customer service options.

When contacting support, please have your drone model (HS720 or HS720E) and the part's reference number (US-HS720JBFR) ready.

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