

NewYall IK09075IIC

NewYall HVAC Air Recirculation Flap Servo Actuator Motor User Manual

Model: IK09075IIC

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of the NewYall HVAC Air Recirculation Flap Servo Actuator Motor. This component is designed to control the air recirculation flap within your vehicle's heating, ventilation, and air conditioning (HVAC) system, ensuring proper air flow and climate control.

Please read this manual thoroughly before attempting installation or use to ensure correct procedure and optimal performance.

2. VEHICLE COMPATIBILITY

This HVAC Air Recirculation Flap Servo Actuator Motor is compatible with various Volkswagen models. Verify your vehicle's make, model, and year against the list below:

- VW Atlas: 2018-2023
- VW Atlas Cross Sport: 2020-2023
- VW Eos: 2007-2008
- VW Golf: 2010-2021
- VW Golf Alltrack: 2017-2019
- VW Golf R: 2012-2024
- VW Golf SportWagen: 2015-2019
- VW GTI: 2006-2024
- VW Jetta: 2005-2024
- VW R32: 2008
- VW Rabbit: 2006-2009
- VW Taos: 2022-2024
- VW Tiguan: 2009-2024
- VW Tiguan Limited: 2017-2018

Note: Always confirm compatibility with your vehicle's specific part number before installation.

3. PACKAGE CONTENTS

The package typically includes:

- 1x NewYall HVAC Air Recirculation Flap Servo Actuator Motor (Model: IK09075IIC)



Figure 1: The NewYall HVAC Air Recirculation Flap Servo Actuator Motor. This image shows the main view of the black plastic motor housing with a white gear mechanism protruding from one side and an electrical connector on the other.

4. SAFETY INFORMATION

Always observe the following safety precautions during installation and handling:

- Ensure the vehicle's ignition is off and the battery is disconnected before beginning any work on electrical components.
- Wear appropriate personal protective equipment, such as gloves and eye protection.
- If you are unsure about any step of the installation process, consult a qualified automotive technician.
- Handle the actuator motor carefully to avoid damage to its electrical connectors or mechanical components.

5. INSTALLATION INSTRUCTIONS

The following steps outline the general procedure for replacing the HVAC Air Recirculation Flap Servo Actuator Motor. Specific vehicle models may have slight variations. Refer to your vehicle's service manual for precise details.

Tools Required:

- T20 Torx screwdriver

- 10mm socket wrench
- Plastic trim removal tools (recommended)

Procedure:

1. **Prepare the Vehicle:** Ensure the vehicle's ignition is off. Disconnect the negative terminal of the car battery for safety.
2. **Remove Glove Box:**
 - Open the glove box and remove the three T20 Torx screws located at the top.
 - Close the glove box and remove the three T20 Torx screws located across the bottom.
 - Remove the panel above the ESP button (typically behind the shifter).
 - Remove any additional T20 Torx screws on the passenger side, if present.
 - Remove the side panel of the glove box (similar to a fuse panel cover).
 - Carefully slide the glove box out. Disconnect the glove box light, footwell light, and the A/C hose that connects to the box. Remove the glove box completely from the car.
3. **Access the Actuator:**
 - You should now see a panel with some electronics. Remove the two 10mm nuts at the top of this panel and move it out of the way to gain access.
 - Locate a fabric-wrapped wire. Remove it from its clip.
 - Remove the black plastic part that the wire was clipped to. This typically has clips on the top and bottom.
4. **Remove Old Actuator:** The old actuator motor should now be accessible and easy to remove, as it is typically not held in by screws. Disconnect its electrical plug.
5. **Prepare New Actuator:**
 - Before installing the new motor, it is recommended to turn the ignition on (without starting the engine) and ensure the recirculation light is off. This should position the flap in the "down" or open position.
 - *Important Note:* Some users have reported that the gear on the new actuator may need to be swapped with the original gear for proper fitment. Inspect both gears and swap if necessary before installation.
6. **Install New Actuator:**
 - Connect the electrical plug to the new actuator motor.
 - Carefully position the new actuator into place. It should slide in without force. Ensure the gear aligns correctly with the flap mechanism.
 - *Tip:* For some models, it may be necessary to gently push the actuator inward when it's almost at its final travel position to ensure the gear fully engages.
7. **Reassembly:** Reassemble all removed components in reverse order:
 - Reattach the black plastic part and the fabric-wrapped wire.
 - Secure the electronics panel with the two 10mm nuts.
 - Reconnect the A/C hose, footwell light, and glove box light. Slide the glove box back into position.
 - Secure the glove box with all T20 Torx screws.
 - Reinstall all trim panels.

8. **Final Check:** Reconnect the car battery. Start the vehicle and test the HVAC system, particularly the air recirculation function, to ensure the new actuator operates quietly and correctly.

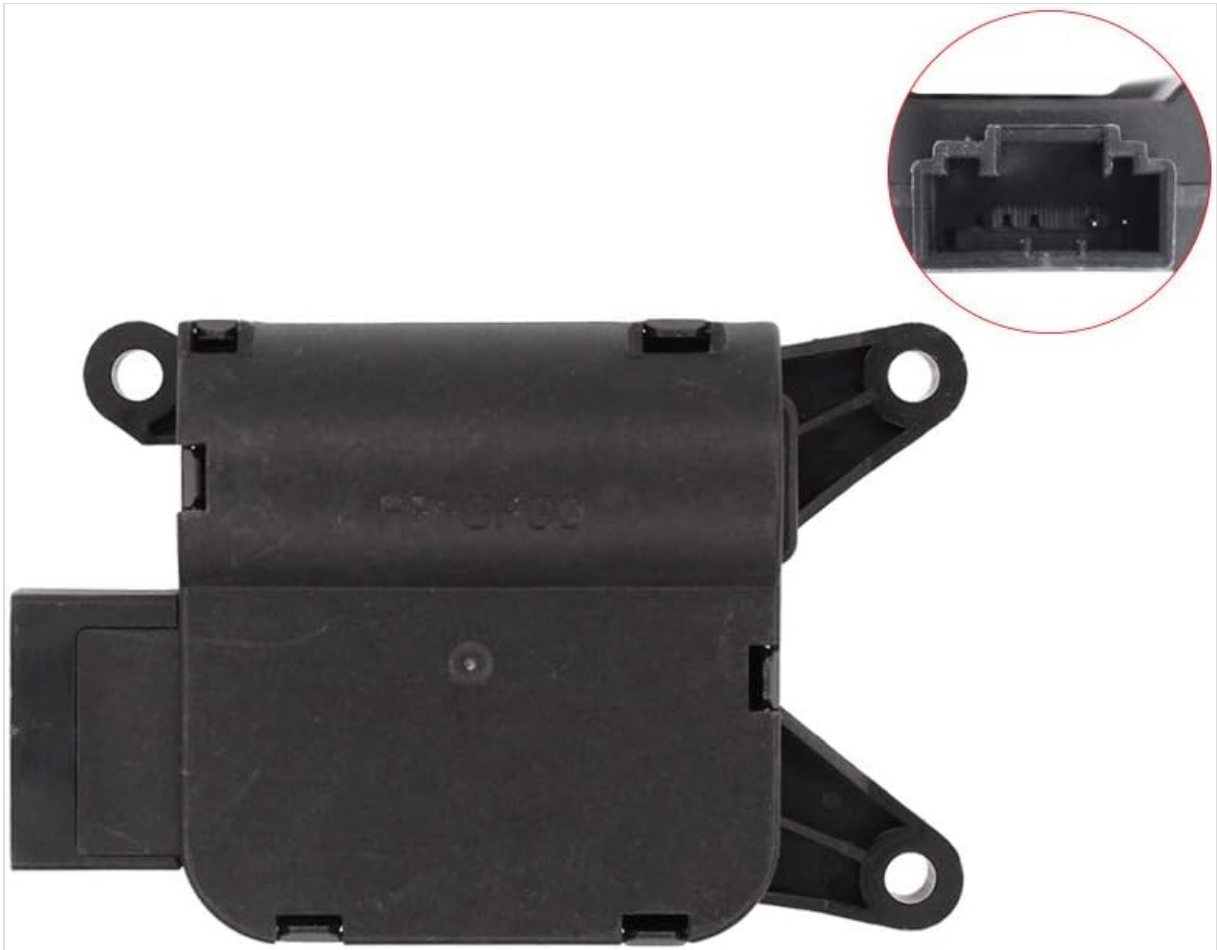


Figure 2: Side view of the actuator motor, highlighting the electrical connector. This image shows the black plastic housing from a different angle, with a close-up inset of the multi-pin electrical connector.



Figure 3: Top view of the actuator motor, showing the mounting points and the white gear. This image provides an overhead perspective of the actuator, detailing the two mounting tabs and the central white gear.

6. OPERATION

The NewYall HVAC Air Recirculation Flap Servo Actuator Motor operates automatically in conjunction with your vehicle's climate control system. When you select the air recirculation function (either manually or automatically), the actuator receives an electrical signal to move the internal flap, closing off outside air intake and recirculating cabin air. When recirculation is deselected, the actuator moves the flap to allow fresh air into the cabin.

Proper operation is characterized by smooth, quiet movement of the flap and effective control over the air source (fresh air vs. recirculation).

7. MAINTENANCE

The NewYall HVAC Air Recirculation Flap Servo Actuator Motor is designed for long-term, maintenance-free operation. No regular servicing is required for the actuator itself. However, ensuring the overall HVAC system is clean and free of debris can help prolong the life of all components, including the actuator.

- Regularly check and replace your cabin air filter as recommended by your vehicle manufacturer. A clogged filter can restrict airflow and put strain on HVAC components.
- Avoid forcing the climate control system if you hear unusual noises, as this could indicate a mechanical issue that needs attention.

8. TROUBLESHOOTING

If you experience issues after installing the actuator, consider the following common problems and solutions:

Symptom	Possible Cause	Solution
Clicking, grinding, or growling noise from behind the glove box.	Faulty actuator motor or stripped gears.	This is often the primary symptom indicating a need for replacement. Ensure the new actuator is correctly installed and its gears are fully engaged. If the noise persists, verify the new part is functioning correctly.
Air recirculation not working or stuck on one setting.	Actuator motor not moving the flap, electrical connection issue, or incorrect installation.	Check electrical connections to the actuator. Ensure the actuator's gear is properly aligned with the flap mechanism. Verify the vehicle's climate control system is sending signals to the actuator.
New actuator does not fit or gear does not engage.	Incompatible part, or the gear on the new actuator differs from the original.	Double-check the part number for your specific vehicle. Some users have found it necessary to swap the gear from the original actuator onto the new one. Ensure the flap is in the correct position (recirculation off) before installing.

If troubleshooting steps do not resolve the issue, it is recommended to consult a professional automotive technician.

9. SPECIFICATIONS

Feature	Detail
Brand	NewYall

Feature	Detail
Model Number	IK09075IIC
Voltage	12 Volts
Item Weight	4.8 ounces (0.14 Kilograms)
Package Dimensions	4.8 x 3.7 x 2.4 inches
Manufacturer Part Number	IK09075IIC
UPC	754914479260

10. WARRANTY AND SUPPORT

For warranty information or technical support regarding your NewYall HVAC Air Recirculation Flap Servo Actuator Motor, please refer to the seller's return policy or contact NewYall customer service directly. Typically, products purchased through Amazon.com have a 30-day return/replacement policy. You can visit the NewYall Store on Amazon for more information:[NewYall Store](#)