

ESC EWR1002

ESC EWR1002 Window Regulator Repair Kit for Opel Astra H (2004-2010) - User Manual

Model: EWR1002 | Brand: ESC

1. INTRODUCTION

This manual provides instructions for the installation and maintenance of the ESC EWR1002 Window Regulator Repair Kit, designed for the rear left door of Opel Astra H models manufactured between 2004 and 2010. This kit is intended to replace worn or damaged components of the existing window regulator mechanism, restoring proper window function.

It is highly recommended that installation be performed by a qualified automotive technician due to the complexity and safety considerations involved with vehicle electrical and mechanical systems.

2. PRODUCT OVERVIEW AND COMPONENTS

The ESC EWR1002 kit includes essential components required to repair the window regulator mechanism. Please verify all parts are present and undamaged before beginning installation.

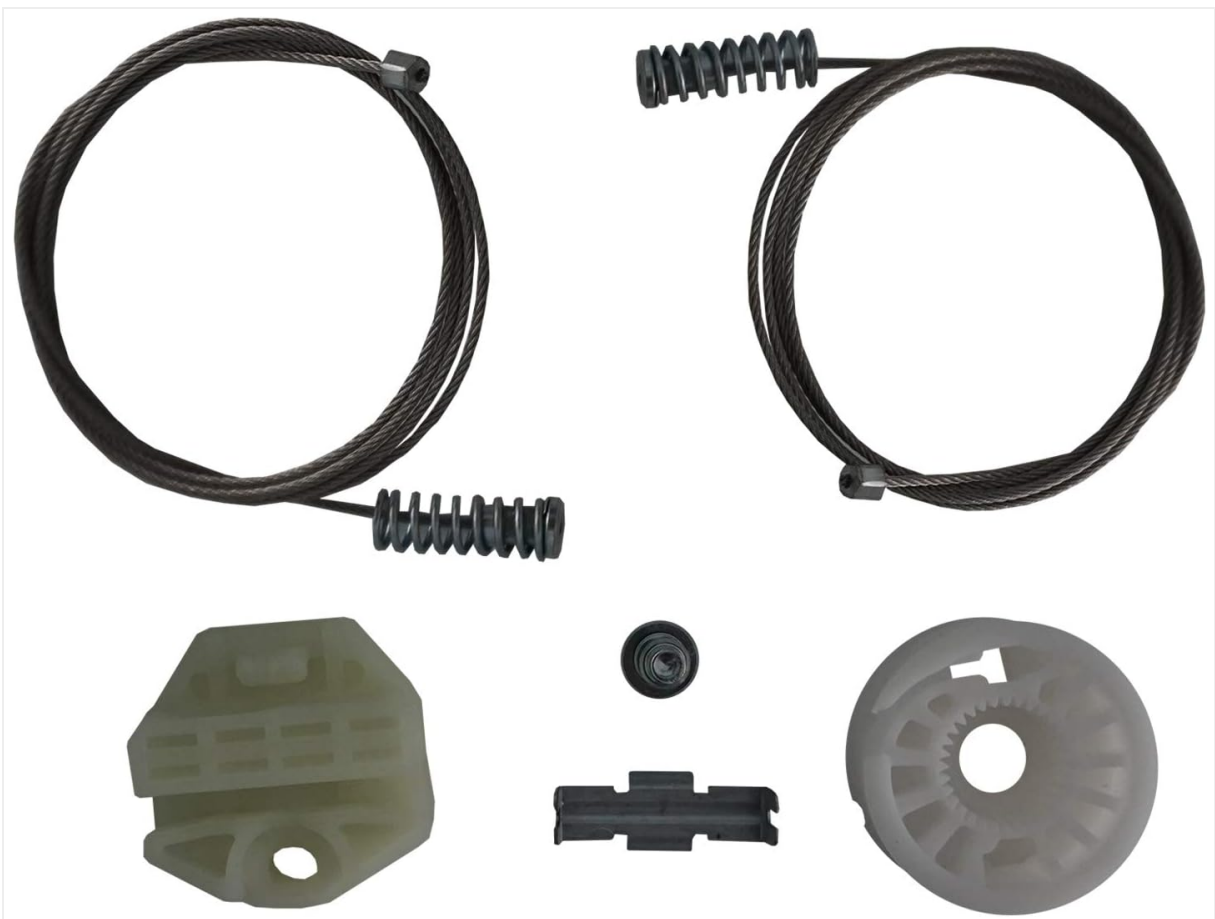


Figure 2.1: Overview of the ESC EWR1002 Window Regulator Repair Kit components. This image displays the two main cables with springs, a plastic pulley, a plastic window carrier, and small metal fasteners.

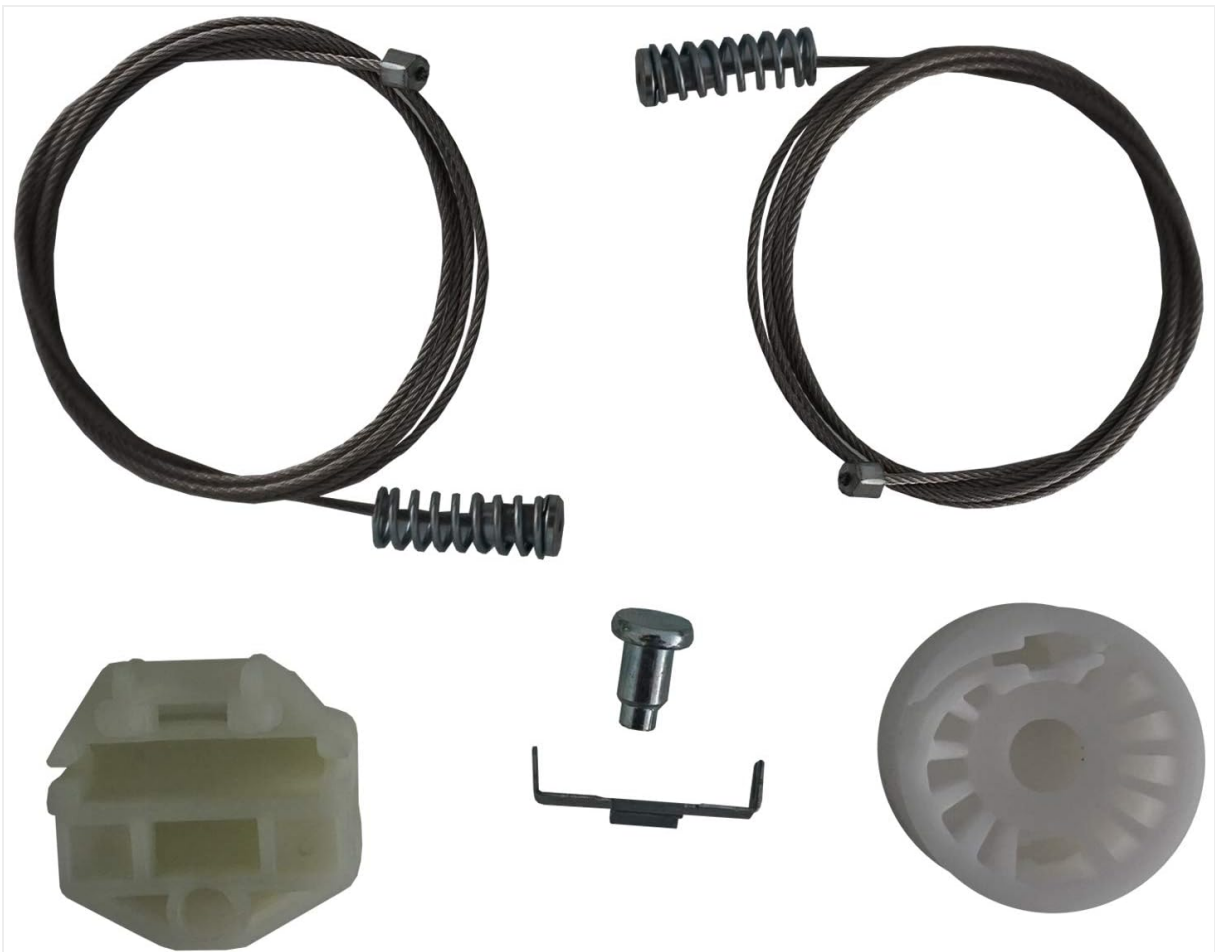


Figure 2.2: A closer look at the individual parts of the repair kit, showing the two steel cables with attached springs, the

main plastic pulley wheel, the plastic window carrier, and a small metal pin and clip.

- **Steel Cables:** Two pre-cut steel cables with end fittings and tension springs.
- **Plastic Pulley:** The central plastic gear/pulley mechanism.
- **Window Carrier:** A plastic component that attaches to the window glass.
- **Fasteners:** Various small clips and pins for assembly.

3. SETUP AND INSTALLATION

This section provides a general outline for the installation process. Specific steps may vary depending on the vehicle's exact configuration. Refer to a vehicle-specific service manual for detailed instructions.

3.1. Safety Precautions

- Disconnect the vehicle's battery before starting any electrical work.
- Wear appropriate personal protective equipment (PPE), including gloves and eye protection.
- Ensure the window glass is securely supported during removal and installation to prevent breakage or injury.
- Work in a well-lit and stable environment.

3.2. Required Tools (Typical)

- Screwdrivers (Phillips, Flathead, Torx)
- Socket Wrench Set
- Trim Removal Tools
- Pliers
- Wire Cutters (if old cables need to be cut)
- Grease (for moving parts)

3.3. General Installation Steps

1. **Door Panel Removal:** Carefully remove the interior door panel, disconnecting any electrical connectors (e.g., window switch, door lock).
2. **Water Shield Removal:** Peel back the plastic water shield to access the inner door components.
3. **Window Glass Support:** Secure the window glass in the up position using tape or a clamp.
4. **Old Regulator Removal:** Disconnect the window glass from the old regulator carrier. Unbolt and remove the entire old window regulator assembly.
5. **Disassembly of Old Regulator:** If only specific parts are being replaced (e.g., cables, pulley, carrier), carefully disassemble the old regulator, noting the routing of the cables.
6. **New Kit Assembly:** Assemble the new ESC EWR1002 components according to the original regulator's configuration. Ensure cables are correctly routed and tensioned around the pulley.
7. **New Regulator Installation:** Install the repaired or new regulator assembly into the door, bolting it securely.
8. **Window Glass Attachment:** Reattach the window glass to the new carrier.
9. **Testing:** Reconnect the window switch (temporarily) and the battery. Test the window's up and down movement, ensuring smooth operation and full travel.
10. **Reassembly:** Reinstall the water shield and interior door panel, reconnecting all electrical connectors.



Figure 3.1: Detailed view of the plastic window carrier and a metal clip, crucial components for attaching the window glass to the regulator mechanism.

4. OPERATING THE WINDOW

After successful installation of the ESC EWR1002 Window Regulator Repair Kit, the window should operate normally via the vehicle's power window switch. Ensure the window moves smoothly without binding or excessive noise. If the window has an auto-up/down feature, it may require recalibration after battery disconnection or regulator replacement. Consult your vehicle's owner's manual for recalibration procedures.

5. MAINTENANCE

The ESC EWR1002 Window Regulator Repair Kit is designed for durability and typically requires minimal maintenance after proper installation. However, periodic checks can help ensure longevity:

- **Lubrication:** If accessible, apply a small amount of silicone-based lubricant to the window tracks and any visible moving parts of the regulator mechanism every few years to ensure smooth operation. Avoid petroleum-based lubricants as they can damage plastic and rubber components.
- **Cleanliness:** Keep window tracks free of dirt and debris, which can impede window movement and put strain on the regulator.
- **Inspection:** If you notice any unusual noises, slow operation, or binding, have the window mechanism inspected by a qualified technician.

6. TROUBLESHOOTING

This section addresses common issues that may arise after installing a window regulator repair kit.

Problem	Possible Cause	Solution
Window does not move.	<ul style="list-style-type: none">• Blown fuse.• Disconnected electrical connector.• Faulty window switch.• Motor issue (if not replaced).	<ul style="list-style-type: none">• Check and replace fuse.• Verify all connectors are securely attached.• Test window switch.• Consult a technician for motor diagnosis.

Problem	Possible Cause	Solution
Window moves slowly or binds.	<ul style="list-style-type: none">Window tracks are dirty or dry.Cables are not properly tensioned or routed.Obstruction in the window path.Bent or misaligned components.	<ul style="list-style-type: none">Clean and lubricate window tracks.Re-check cable routing and tension.Inspect for obstructions.Re-inspect installation for proper alignment.
Unusual noises (grinding, clicking).	<ul style="list-style-type: none">Improperly seated components.Damaged or worn gear/pulley.Cables rubbing against housing.	<ul style="list-style-type: none">Re-inspect all connections and seating.Verify pulley and cables are intact and correctly installed.Ensure cables are not rubbing.

7. SPECIFICATIONS

Feature	Detail
Model Number	EWR1002
Brand	ESC
Compatibility	Opel Astra H (2004-2010), Rear Left Door
Part Type	Window Regulator Repair Kit
UPC	700890881672
Manufacturer	ESC

8. WARRANTY AND SUPPORT


For information regarding product warranty, returns, or technical support, please contact the seller or manufacturer directly. This information is not provided within this manual.



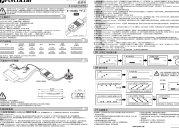


Manufacturer: ESC

© 2023 ESC. All rights reserved.

This manual is for informational purposes only. ESC is not responsible for any damages or injuries resulting from improper installation or use of this product.

Related Documents - EWR1002

	<p>2021 ESC/EACTS Guidelines for Valvular Heart Disease Management</p> <p>Comprehensive clinical practice guidelines from the European Society of Cardiology (ESC) and the European Association for Cardio-Thoracic Surgery (EACTS) detailing the latest recommendations for the diagnosis and management of valvular heart disease.</p>
---	--

	<p>2024 ESC Guidelines for the Management of Elevated Blood Pressure and Hypertension</p> <p>The 2024 ESC Guidelines provide comprehensive recommendations for the management of elevated blood pressure and hypertension, developed by the European Society of Cardiology (ESC) in collaboration with the European Society of Endocrinology (ESE) and the European Stroke Organisation (ESO). These guidelines focus on updated evidence for cardiovascular disease prevention and treatment strategies.</p>
	<p>2023 ESC Guidelines for the Management of Acute Coronary Syndromes</p> <p>Comprehensive 2023 clinical practice guidelines from the European Society of Cardiology (ESC) detailing the diagnosis, management, and secondary prevention of acute coronary syndromes (ACS), including STEMI and NSTEMI.</p>
	<p>FLYCOLOR X-Cross HV3 Pro Brushless ESC User Manual</p> <p>Comprehensive user manual for the FLYCOLOR X-Cross HV3 Pro Brushless ESC, detailing features, specifications, programming parameters, and setup instructions for RC models.</p>
	<p>Novak GT7 Programmable Racing ESC Instruction Manual</p> <p>Comprehensive instruction manual for the Novak GT7 Programmable Racing ESC, covering specifications, setup, programming, hook-up instructions, transmitter adjustments, troubleshooting, and warranty information.</p>
	<p>Maclan MDP 160 ESC User Manual: Performance Drift ESC</p> <p>Comprehensive user manual for the Maclan MDP 160 ESC, detailing features, specifications, programming parameters, and factory profiles for 1/10th scale RC drift applications.</p>