

GeckoWiper®

User Manual



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1. Introduction

Congratulations on your purchase of **GeckoWiper®**, available via www.geckowiper.com, the state-of-the-art attachable Rear Windscreen Wiper with dual mounting via Vacuum Pad and Magnetic System! This patent pending, innovative product is designed to provide efficient and reliable cleaning for your car's rear window while being tool-free to mount. Please read this user manual carefully to ensure proper installation, maintenance, and usage.

2. Applicability

The rear window wiper system was successfully qualified for the following application

Table 1: List of approved GeckoWiper applications

Application @ Rear Window of	Mounting Position	Qualification Status	Intro Video	Image
Hyundai Ioniq 5 (2019-2024)	Bottom mounted	Qualified	 <i>Figure 1: QR code or LINK</i>	
Kia EV6	Bottom mounted	Qualified	 <i>Figure 2: QR code or LINK</i>	
Tesla Y	Top mounted	Beta-Testing Phase	 <i>Figure 3: QR code or LINK</i>	

Attention:

- The usage on other cars & applications apart from Table 1 is forbidden, as safety can not be given, due to lack of application based qualification.
- For other applications, please check qualification regularly via www.geckowiper.com or give a direct request for your car/application via <https://www.geckowiper.com/compatibility>

3. Package Content

The GeckoWiper Rear Windscreen Wiper Unit comes as shown in Figure 1 with

- 1.) Geckowiper housing,
- 2.) Vacuum pump plunger indicator,
- 3.) Wiper arm,
- 4.) Wiper blade,
- 5.) Vacuum pad,
- 6.) Remote transmitter,
- 7.) Safety magnet
- 8.) USB-C charging port with waterproofing cover & LED charge indicator
- 9.) This current user manual, provided as QR-code link

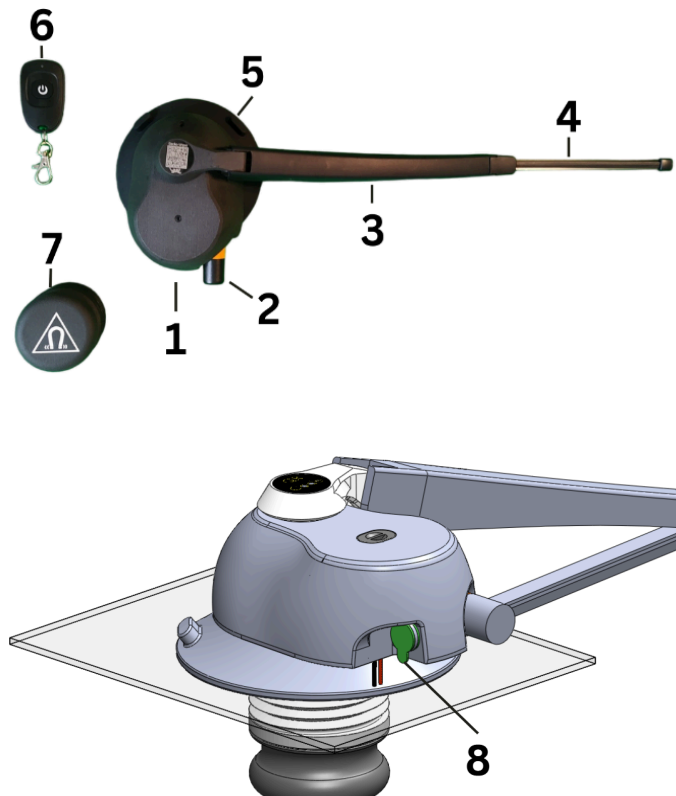












Figure 1: GeckoWiper key components, 1.) Geckowiper housing, 2.) Vacuum pump plunger indicator, 3.) Wiper arm, 4.) Wiper blade, 5.) Vacuum pad, 6.) Remote transmitter, 7.) Safety magnet, 8.) USB-C charging port with silicone waterproofing cover





4. Installation-Steps

The GeckoWiper installation is exemplary shown for Hyundai Ioniq 5 and shall be representative for all other qualified applications/cars of Table 1.






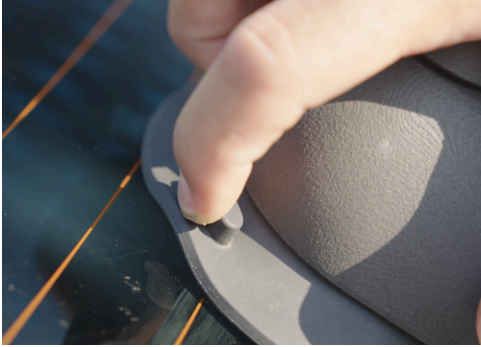
Step	Content	Details	Image
1.	Watch Product Video	 <p>Figure 1: QR code or LINK</p>	 <p>Figure 2: Product video, QR code or LINK</p>


2.	Watch Mounting Video	 <p>Figure 3: QR code or LINK</p>	 <p>Figure 4: Watch mounting visualisation QR-code or LINK</p>
3.	Clean rear window wet	<p>Clean the rear glass window with wet towel and remove any contamination in the later location of the vacuum pad.</p> <p>Attention: Vacuum holds best on slightly wetted Glas window</p>	 <p>Figure 5: Clean rear window area wet prior mounting the GeckoWiper®</p>
4.	Clean suction pad & moisten with water	<p>Clean the vacuum pad surface by flushing with water. For installation, a wet vacuum pad surface is rather beneficial than a dry one.</p>	 <p>Figure 5b: Vacuum cleaning & wetting with water</p>
5.	Rear wiper installation	<ul style="list-style-type: none"> • Install the wiper system as shown in Figure by pressing Housing against window + use vacuum pump plunger. • Ensure the pad is fully on the glass and the wiper blade has clearance to the top spoiler • Pump on hand pump until orange indicator disappears = vacuum available 	 <p>Figure 6: Installation position of rear wiper with pump-cylinder phasing vertically down and the wiper being in vertical position. Press housing to window & use vacuum pump until orange pump indicator disappears</p>

			 <p><i>Figure 6b: At insufficient vacuum level, Orange vacuum pump plunger gets visible = check !</i></p>
6.	Check for any collision of blade motion with car body	Manually rotate the wiper arm $\pm 90^\circ$ from the vertical to check manually for any collision between wiper blade motion and the car	 <p><i>Figure 7: Check by hand motion $\pm 90^\circ$ against collision with spoiler</i></p>
7.	Mount counter magnet	<p>Open trunk & place magnet handle in far distance onto surface of rear window ($>20\text{cm}$). Afterwards, slide magnet on window towards center of GeckoWiper® unit, until it is attracted.</p> <p>Attention: Do never move the magnet directly axially behind the GechoWiper housing, always slide tangential from far away towards the GeckoWiper® housing ! (strong axial pull= shock risk to window)</p>	 <p><i>Figure 8: Open trunk & place inner magnet on window, far away ($>20\text{cm}$) from GeckoWiper® housing. Than slide magnet handle along inner window towards GeckoWiper® system. With this dual safety is in lace, vacuum + magnet mounting</i></p>

			 <p><i>Figure 9: Safety Magnet mounted at backside (inside) of car rear window</i></p>
8.	Mount remote key on loudspeaker	<p>The Remote transmitter key comes with an internal magnet, allowing it to stick to loud speaker of the Hyundai Ioniq 5 . For other cars & applications, Velcro hook-loop tape is provided.</p>	 <p><i>Figure 10: Remote transmitter placement via internal magnet to any magnetic surface , exemplary on Hyundai Ioniq 5</i></p>  <p><i>Figure 4: Remote key fixation with Velcro on any hard plastic surface, exemplary Kia EV6 Cockpit</i></p>
9.	Start wipe motion	<p>Start wiping by pressing remote transmitter key for >2 sec. This time is needed due to a battery deep-sleep design, ensuring your wiper internal battery to last in standby for very long.</p> <p>After dual wipe, motion stops & sleep mode is activated again.</p> <p>Reactivation is possible after short delay of 1-3 sec.</p>	 <p><i>Figure 11: Remote transmitter key press with RED light confirmation pressing by > 2sec for wipe activation</i></p>

5. Dismounting

Step	Content	Details	Image
10	Watch Product Video	 <p>Figure 12: QR code or LINK</p>	 <p>Figure 13: Product video, QR code or LINK</p>
11	Watch Dismount Video	 <p>Figure 14: QR code or LINK</p>	 <p>Figure 15: Dismounting visualisation video, QR or LINK</p>
12	Open trunk & Slide away safety magnet tangential to window	<p>After trunk is open, slide internal safety magnet horizontally away from housing. ATTENTION: Do not try axial pull-away of the strong magnet. The Magnet shall always be removed by sliding away motion</p>	 <p>Figure 16: Slide trunk internal safety magnet away from GeckoWiper housing</p>
13	Open vacuum	<p>Lift up the vacuum pad rubber handles to breach the vacuum by lifting one side of vacuum pad vertically off.</p> <p>The GeckoWiper unit can now easily be removed from window</p>	 <p>Figure 17: Open vacuum system by rubber handles pull-up motion</p>

14	Assemble Safety Magnet onto GeckoWiper for integrity	<p>The safety magnet is very strong & should be fixed for storage onto the vacuum pad inner surface. This allows to have limited magnetic fields attracting to the outside = safe storage.</p> <p>Attention: Bring magnet towards vacuum pad in a roll motion, not axial, to slow down attraction speed. Take care of your fingers not get clamped</p>	 <p>Figure 18: For safe storage, place safety magnet onto vacuum pad inner surface.</p>
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6. Operation safety

- Pressing the vacuum pump plunger creates a steady vacuum in the vacuum pad. The orange pump vacuum-level indicator disappears once the maximum vacuum is reached. **Prior any usage, check that orange vacuum level indicator is NOT visible. If GeckoWiper is continuously mounted, check before driving that orange indicator is NOT visible.** If the vacuum pad was correctly attached, it shows after 12h NO orange pump indicator, proofing a good vacuum capable to remain for long time.
- Only activate the wiping motion with the remote transmitter key, when the system is attached on the rear window. Do not start the wiper why holding it in your hand !
- ATTENTION:** Operate GeckoWiper® only if both vacuum & safety magnet are attached. **A stand-alone usage of the vacuum pad only without safety magnet is forbidden**
- Preferable, prior any journey start, ensure that the GeckoWiper® is working by triggering with remote key an initial test-wipe.

7. USB-C Recharging:

GeckoWiper features a USB-C charging port compatible with select chargers (see Table 3). When charging properly, the blue LED indicator should turn on when the USB-C charger is plugged in.



Table 3: List of working, compatible USBC chargers

Name	Apple 5W USB Power Adapter (OLD)	Apple 20W USB-C Power Adapter (NEW)	Android Chargers random, 5-30W	PC & Laptop internal USB ports
USBC PD-Trigger ¹	No	Yes	No	Yes & No
Image				
Compatible ?	Yes	No	Yes	Case-by-case yes & no
Comment		Charger requires device feedback		Charger requires device feedback

¹ Used by Apple to detect apple devices, but currently not compatible with GeckoWiper charging needs

In case the GeckoWiper® system needs recharge, seen by slowing-down wiping motions,

- use the build in, waterproof covered USB-C charging port to recharge the wiper.
- Charging time is 3-hours to full charge.
- Connect the USB-C charging cable to a suitable power source, such as a cars internal USB charging or phone charger or power bank. (See table 3)
- Using a power bank allows to charge GeckoWiper® while staying attached to rear window
- LED blue light shows steady light during charging & switched off when battery full.

8. Maintenance

Before each drive, check

- the orange pump vacuum **indicator to be NOT visible = vacuum available**. A orange visible pump ring indicates that the vacuum level reduced and repumping is needed.
- For each new attachment on the window, clean the rear window wet, spray with water.
- If newly mounted, ensure that vacuum pad itself is also cleaned wet and without damages
- that the **magnet behind the window is installed** & in good optical conditions.
- Ensure any mounting & dismounting of the magnet is done by horizontal sliding away motion. Moving the magnet axially towards/away to the GeckoWiper® housing is forbidden, as it might result in a shock motion with the glass rear window

9. Troubleshooting

ID	Trouble	Possible reasons	Solution
1	Wiper does not start when remote transmitter key pressed	Key press <2sec	Press key continuous for >2 seconds to ensure wiper activation. The wiper system uses a sleep modus to retain energy and requires this >2s remote key pressing for reactivation.
2		Battery empty	Recharge battery via USB-C port
3	Slow leakage of vacuum	Dry mounting surface of vacuum pad	Clean window and pad with wetted towel, remove any particles and reapply pad on prior wetted rear window for best suctioning performance
4		Damages on vacuum pad sealing surface	Replace vacuum pad, contact us
5		Debris in pump	Clean pump plunger
6		Dirty or uneven window surface	Clean window and pad with wetted towel or flush with water, remove any particles and reapply pad on wetted rear window for best suctioning performance
7	Quick leakage of vacuum	Damaged vacuum pad surface	Replace vacuum pad, contact us
8		Damaged pump	Replace pump, contact us
9		Dirty or uneven window surface	Clean window and pad with wetted towel, remove any particles and reapply pad on wetted rear window for best suctioning performance
10	Stuck pump	Vacuum still available	Release vacuum on two pad ears at 10am & 2pm location. Pump should get air & plunger moves out

11		Debris in pump	Clean pump internal parts
12	Wiper not at intended start position	Over time, wiper arm can move freely into other position	Press remote key >2sec, wiper arm will auto realign
13	Wiper blade worn	Long time usage or damage by ice/ removal	Replace wiper blade with suitable off-the-shelf blades of similar size

10. Safety Precautions

- Do not operate the wiper without sufficient vacuum, indicated by the orange vacuum plunger indicator
- Keep the vacuum pad clean for optimal performance
- Keep the safety magnet behind the window always mounted.
- Use the product in accordance with local traffic regulations
- Preferably, dismount wiper unit in car wash facilities, check for attachment otherwise afterwards
- Unscrewing or opening the GeckoWiper® assembly will cancel all warranty and return claims

11. Technical Specifications

GeckoWiper®, an add-on removable rear window wiper

- Remote key activated >10m
- Battery powered
- Dual vacuum and magnet fixation
- Quick mount in 10sec
- Patent pending design
- Standby: 6-months+
- Compact Design
- Low Energy Design
- Tool-free mounting & dismount
- Wipe angle +-90deg
- USB-C charging, also possible while mounted on window
- Vacuum Indicator: Orange pump vacuum indicator
- Mass: 1kg
- Qualified car usage worldwide

12. Returns & Warranty

We want you to be totally psyched about the products you purchase at geckowiper.com. If at any time within 30 days of receiving your order, you're not satisfied, you may return the products to us for a refund.

- Any items damaged due to reasons not covered under warranty cannot be accepted back for refund under our Money-Back Guarantee.
- Associated return shipping fees are not refundable & have to be paid by customer
- This guarantee only applies to orders placed on geckowiper.com

For return & warranty, please use our [contact form](#).

13. General Terms & Conditions

- I. Introduction
 - These Terms govern all transactions between Tigs Design & Engineering GmbH ("Company") and the customer ("Customer") regarding the rear window wiper product ("GeckoWiper®"). By purchasing or using the Product, the Customer agrees to these Terms.
- II. Scope
 - These Terms apply to all sales and services. Any differing terms from the Customer are invalid unless accepted in writing by the Company.
- III. Product Use and Liability
 - The Product is intended solely for its designed purpose. The Company is not liable for damages from improper use, modifications, or incorrect installation. Installation & product maintenance must be performed according to the assembly manual.
- IV. International Use and Jurisdiction
 - These Terms are governed by Swiss law, with disputes resolved in Zurich, Switzerland. The Customer is responsible for compliance with local laws and export regulations.
- V. Warranty and Liability
 - The Product is warranted against defects in materials and workmanship for a period of 2 years from the date of purchase. This warranty does not cover damage resulting from misuse, unauthorized modifications, improper installation, or normal wear and tear. The Company's liability under this warranty is strictly limited to the repair or replacement of the defective product, at the Company's sole discretion. The Company is not liable for any indirect, incidental, consequential, punitive damages or personal injury claims or death, including but not limited to loss of use, loss of profits, or any delays caused by circumstances beyond the Company's reasonable control (force majeure). Any claims under this warranty must be made in writing within the warranty period to GeckoWiper@gmail.com, and the Customer is responsible for all shipping and handling costs associated with warranty claims.
- VI. Indemnification
 - The Customer indemnifies the Company against claims arising from misuse of the Product, including third-party claims.
- VII. Severability
 - Invalid provisions do not affect the validity of remaining Terms.
- VIII. Amendments
 - The Company may amend these Terms at any time, effective upon notice.
- IX. Brand affiliations
 - GeckoWiper® is compatible with a wide variety of brands for car and other industries. However, we want to make it clear that GeckoWiper® is not made, endorsed, or affiliated with any of these brands. The names of these brands and their products are only used to inform you about the compatibility of our product, GeckoWiper®, with their devices.
 - This compatibility information is provided solely for descriptive purposes and to help you understand how GeckoWiper® works with the devices you already own from other brands. While GeckoWiper® is compatible with several well-known devices and brands, it is an independent product developed and manufactured by our team.
- X. Intellectual Property
 - Trademarks: GeckoWiper® and any associated logos are trademarks of Tigs Design & Engineering GmbH. Unauthorized use is prohibited and may result in legal action.
 - Patents: The product GeckoWiper® is currently in patent-pending status. Unauthorized reproduction, use, or sale of this invention is prohibited by law.

XI. Entire Agreement

- These Terms constitute the entire agreement between the parties, superseding prior agreements

Tigs Design & Engineering GmbH

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13.March.2025

14. Impressum

Tigs Design & Engineering GmbH

Email contact: GeckoWiper@gmail.com

Website: www.GeckoWiper.com

15. Revision Track

Revision	Update	Date
RevG	Chapter 2: <ul style="list-style-type: none">• Tesla Y added Chapter 7: <ul style="list-style-type: none">• Added compatible USBC chargers & charge LED image added	13.March 2025