



RENNOVA RAIN SENSING WIPER

A rain-sensing wiper system, also known as automatic wipers or rain-sensing wipers, is a feature commonly found in modern vehicles that automatically activates and adjusts the speed of the windshield wipers based on the amount of rainfall detected. The purpose of a rain-sensing wiper system is to provide convenience and maintain optimal visibility for the driver during rainy conditions.



Here's how a typical rain-sensing wiper system works:

1. **Rain Sensor:** The system utilizes a rain sensor, typically located behind the windshield near the rearview mirror, to detect the presence and intensity of raindrops. The rain sensor uses optical or infrared technology to monitor the windshield surface.
2. **Activation:** When the rain sensor detects rain on the windshield, it signals the wiper control module to activate the windshield wipers automatically. The wipers will start operating without the need for manual intervention from the driver.
3. **Wiper Speed Adjustment:** The rain-sensing wiper system continuously monitors the rain intensity by analyzing the frequency of raindrops hitting the windshield. Based on this information, the system adjusts the speed of the wipers accordingly. If the rain becomes heavier, the wipers will speed up to ensure clear visibility, and if the rain intensity decreases, the wipers may slow down or pause.
4. **Sensitivity Control:** Some rain-sensing wiper systems allow the driver to adjust the sensitivity of the rain sensor. This adjustment determines the level of rainfall required to activate the wipers. Drivers can usually choose from different sensitivity settings to suit their preferences or the current weather conditions.
5. **Manual Override:** In case the driver wants to manually control the wipers, most rain-sensing wiper systems provide a manual override option. This allows the driver to switch to manual wiper control mode by adjusting the wiper control stalk or using a dedicated button.

By automatically detecting rain and adjusting the wiper speed, rain-sensing wiper systems offer convenience and enhance safety during inclement weather. They ensure that the windshield remains clear without requiring the driver to manually adjust the wiper speed, allowing them to focus on the road ahead.



Features:

- Rennova Solutions' LIN Sensor nodes capable of Rain sensing as well as sensing ambient light level.
- Control unit equipped with high power MOSFETs for direct drive of wiper motors
- Equipped with safety and diagnostic features like Open circuit, Short circuit detections, etc
- Automatic Rain sensing wipers can also be offered as combo along with Automatic Head lamps
- Only Sensor solutions can also be offered to integrate with existing Body Control modules

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