

SYSTEM DESCRIPTION

1. FRONT WIPER SYSTEM

- (a) The front wiper system receives the wiper operation signal from the combination switch, and the passenger side J/B ECU operates the wiper motor.
- (b) The passenger side J/B ECU adjusts the intermittent interval having considered the vehicle speed, brake signals, etc. and determined the vehicle driving and stopping conditions when the wiper motor is operating intermittently from directions from the combination switch. The system has the following functions.

Function	Outline
Vehicle speed sensing intermittent wiper function (*1)	This function controls the intermittent interval of the wipers according to the vehicle speed when the wiper switch is in the INT position.
Vehicle speed switching function	This function automatically switches the wipers on or off when the vehicle is stopped or starts moving when the wiper switch is in the LO position.

*1: The vehicle speed sensing intermittent wiper function operates when the fail safe function operates if there is a malfunction in the auto-wiper function.

2. FRONT WASHER SYSTEM

- (a) The front washer system receives the wiper operation signal from the combination switch, and the front light ECU operates the washer motor.

3. CONTINUOUS FRONT WASHER WIPER SYSTEM

- (a) The continuous front washer system receives the washer operation signal from the combination switch, and the passenger side J/B ECU operates the wiper motor. The front wipers are operated 3 times after the front washer is stopped.
- (b) The front wiper stops after operating 3 times from the point where the front washer switch has been ON for more than 40 seconds continuously. The front wipers are then operated once at an interval of 3 to 7 seconds. The interval is determined by the vehicle speed signal received from the combination meter.

4. WIPE OUT ANGLE VARIABLE WIPER SYSTEM

- (a) In the wipe out angle variable wiper system, the passenger side J/B ECU changes the wipe out angle according to front wiper operation and vehicle speed.
- (b) The passenger side J/B ECU controls the variable motor and stops the wipers in the raise-up position during continuous washer operation or when the wipers are operating intermittently, or at LO speed. When vehicle speed is, however, 170 km/h (106 mile/h) or more, the wipers are not stopped at the raise-up position, but at the minimum angle position. In this case, control at the minimum angle position will continue until vehicle speed falls below 150 km/h (93 mile/h).
- (c) The passenger side J/B ECU controls the variable motor and stops the wipers in the minimum angle position when the wipers are operating at HI speed.

5. AUTOMATIC WIPER SYSTEM

- (a) In the automatic wiper system, the rain sensor mounted in the upper portion of the windshield sends a front wiper operation command, according to the amount of the rainfall, to the passenger side J/B ECU. The front wipers operate when the windshield wiper switch is in the AUTO position. The rain sensor sensitivity can be adjusted by the rain sensor adjusting switch.
- (b) In this system, the passenger side J/B ECU receives the vehicle speed signal from the combination meter, and operates the front wipers according to the vehicle speed.
- (c) The passenger side J/B ECU adjusts the intermittent interval having considered the vehicle speed, brake signals, etc. and determined the vehicle driving and stopping conditions when the wiper motor is operating intermittently from directions from the rain sensor.

6. HEADLAMP CLEANER SYSTEM

- (a) The headlamp cleaner system operates when the headlamps are ON and the headlamp cleaner switch is pushed (ON). It also operates when the headlamps are ON and the front wiper washer system is operating. It does not, however, operate when the daytime driving light system is operating.