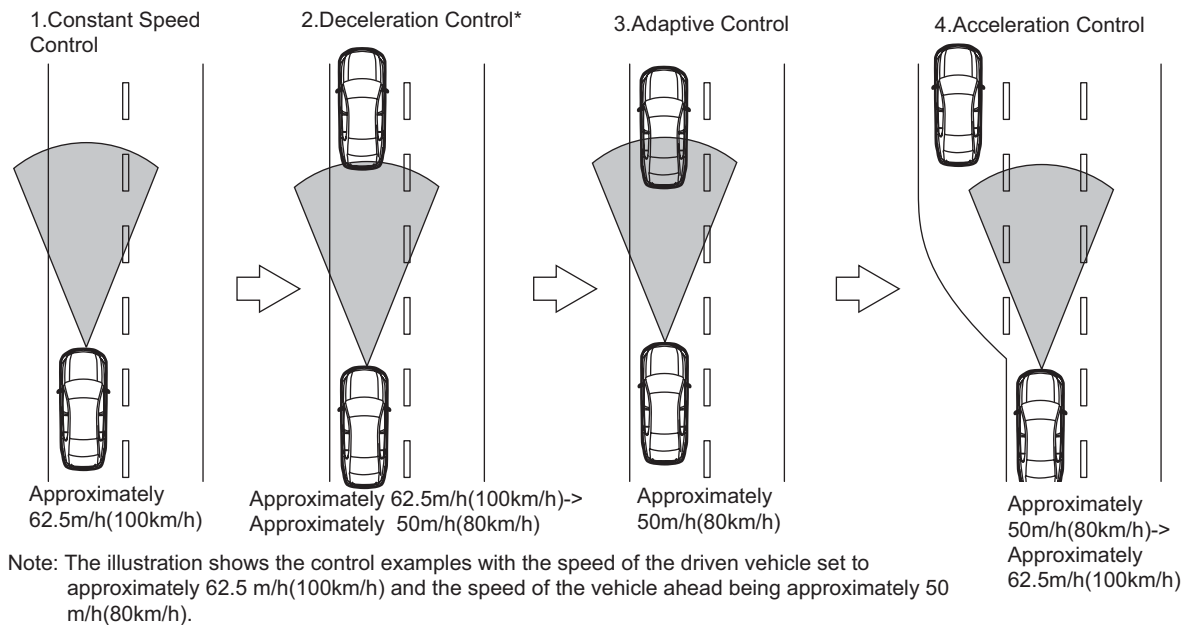


Foundations Function of Dynamic Radar Cruise Control System

- The Dynamic radar cruise control system effects control as follows:



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The flow of Dynamic radar cruise control system function

No.	Control state	Foundations control operation
1	Constant-Speed Control	- No vehicle detected ahead - Drives constantly at a set vehicle speed {example: approx. 62.5 mph(100km/h)}
2	Deceleration Control	- Vehicle detected ahead {example: approx. 50 mph(80km/h)} - Decelerates*1 from a set vehicle speed {approx. 62.5 mph(100km/h)} to the speed of the vehicle ahead {approx. 50 mph(80km/h)}
3	Follow Control	- Vehicle being detected ahead {approx. 50 mph(80km/h)} - Follows the vehicle ahead by maintaining a vehicle-to-vehicle distance*2 that is proportionate to the speed of the vehicle ahead {approx. 50 mph(80km/h)}
4	Acceleration Control	- Detects that the vehicle ahead has changed lanes or that the driven vehicle has changed lanes - Accelerates gradually to a set vehicle speed {approx. 62.5 mph(100km/h)}, and drives at the constant speed.

CC

❖ REFERENCE ❖

*1The system effects shift-down control and brake control if a greater amount of deceleration is needed. If the driven vehicle approaches the vehicle ahead to an extent that prevents the vehicle from decelerating sufficiently, the system sounds the approach warning buzzer to alert the driver to take an action (such as braking).

*2As a rule of thumb, the following controlled vehicle-to-vehicle distances apply when the driven vehicle follows a vehicle ahead at a speed of 50 mph(80km/h): approx. 50 meters for "long", approx. 40 meters for "medium", and "approx. 30 meters for "short".