

MAZDA'S G-VECTERING CONTROL USES ENGINE TIMING TO HELP MAKE DRIVING BETTER

MAZDA-EXCLUSIVE TECHNOLOGY PROVIDES MORE CONFIDENCE AND CONTROL BEHIND THE WHEEL

2019 CX-5 Signature Turbo

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Next time you go for a drive, try paying attention to all of the minor nudges you make to the steering wheel and how all of those movements affect the overall quality of your drive. On a long trip all those little movements add up and can result in the driver feeling fatigued enough that they may have to take a small detour to their closest rest stop in order to get their second wind before continuing on their journey.

Mazda's-exclusive [G-Vectoring Control](#) (GVC) technology uses engine timing to control chassis dynamics, leading to smoother, more accurate steering inputs. GVC makes steering response more direct and linear by using a minute reduction of engine torque at turn-in to put extra weight on the front tires.

Using super-fast computer processors, GVC calculates how much torque is needed to shift the weight back from the front to the rear of the car and vice versa. All of this happens automatically and seamlessly, so the driver feels confident and in control. The net result is less sawing the steering wheel back and forth to feel stable, whether on a winding mountain road or simply going straight on an uneven highway. This harmonious steering response between driver and vehicle is essential to Mazda's *Jinba Ittai*—"horse and rider as one"—driving philosophy.

Watch this video to learn more about G-Vectoring Control and the unique way Mazda engineers study subconscious human behaviors to create a driving experience with greater control, confidence and exhilaration.



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