SAE **J3016**™ LEVELS OF DRIVING AUTOMATION™

Learn more here: sae.org/standards/content/j3016_202104

	SAE **LEVEL 0**™	SAE **LEVEL 1**™	SAE **LEVEL 2**™	SAE **LEVEL 3**™	SAE **LEVEL 4**™	SAE **LEVEL 5**™
What does the human in the driver's seat have to do?	You <u>are</u> **driving** whenever these driver support features are engaged – even if your feet are off the pedals and you are not steering			You <u>are not</u> **driving** when these automated driving features are engaged – even if you are seated in "the driver's seat"		
	You must constantly **supervise** these support features; you must steer, brake or accelerate as needed to maintain safety			When the feature requests, **you must drive**	These automated driving features will not require you to take over driving	
	These are driver support features			**These are automated driving features**		
What do these features do?	These features are limited to providing warnings and momentary assistance	These features provide steering **OR** brake/ acceleration support to the driver	These features provide steering **AND** brake/ acceleration support to the driver	These features can drive the vehicle under limited conditions and will not operate unless all required conditions are met		This feature can drive the vehicle under all conditions
Example Features	• automatic emergency braking • blind spot warning • lane departure warning	• lane centering **OR** • adaptive cruise control	• lane centering **AND** • adaptive cruise control at the same time	• traffic jam chauffeur	• local driverless taxi • pedals/ steering wheel may or may not be installed	• same as level 4, but feature can drive everywhere in all conditions

The Society of Automotive Engineers (SAE) defines the driving levels of automation as noted in the associated image. It's important to note vehicles equipped with driver assistance features are considered level 1 or level 2 vehicles. Conversely, level 3 to level 5 vehicles are equipped with technology to be considered an automated driving system.