

SAE J3016™ LEVELS OF DRIVING AUTOMATION

What does the human in the driver's seat have to do?

SAE LEVEL 0

You are driving whenever these driver support features are engaged – even if your feet are off the pedals and you are not steering

You must constantly supervise these support features; you must steer, brake or accelerate as needed to maintain safety

SAE LEVEL 1

SAE LEVEL 2

SAE LEVEL 3

SAE LEVEL 4

SAE LEVEL 5

You are not driving when these automated driving features are engaged – even if you are seated in “the driver's seat”

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 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 are automated driving features

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

What do these features do?

- 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

Example Features

For a more complete description, please download a free copy of SAE J3016: https://www.sae.org/standards/content/J3016_201806/