



## Mercedes-Benz C-Class

Mercedes-Benz Active Distance Assist DISTRONIC

2024





ASSISTANCE COMPETENCE

85%

SAFETY BACKUP





## **SPECIFICATIONS**

SYSTEM NAME

Active Distance Assist DISTRONIC

Version Tested

C300 Estate

Intended Operation Design Domain

Highway

Inter-Urban

Urban

RECOMMENDED



NOT RECOMMENDED

### Comments

Mercedes-Benz's appropriately named Active Distance Assist DISTRONIC' accurately portrays system functionality. The promotional material and the handbook correctly indicate the limitations of the system capabilities. System status information is clearly displayed in the driver's direct line, in the instrument cluster and via by a head-up display. The C-Class checks that the driver's hands are kept on the steering wheel, and acts appropriately if they are not, but a direct driver monitoring system is not used. The system balances driver steering input with lane guidance, promoting co-operative driving.

The C-Class combines map-based speed limit information with real time camera inputs to manage fixed, variable and temporary speed limit signs. The system adapts speed for upcoming road features such as curves and junctions. The C-Class responds to avoid a collision in almost all of the ACC test scenarios. The driver is supported through the S-Bend, staying within the lane at all test speeds. The vehicle has an Active Blindspot system designed to prevent lane changing into adjacent vehicles. A lane-change assist function is provided. In case of an unresponsive driver, the C-Class automatically moves to the slowest lane and performs a controlled stop. If the radar or camera is blocked the car provides a timely warning and prevents system activation.

The C-Class from Mercedes-Benz provides very good Vehicle Assistance with a similar level of Driver Engagement. Combined with excellent safety back-up, the system, overall, offers Very Good highway assistance.

#### Disclaimer

When using Assisted Driving Systems (also known as SAE Level 2 systems), a driver's responsibilities include monitoring the system's control of speed, braking and steering at all times, strict compliance with traffic rules, and maintaining situational awareness throughout the journey.

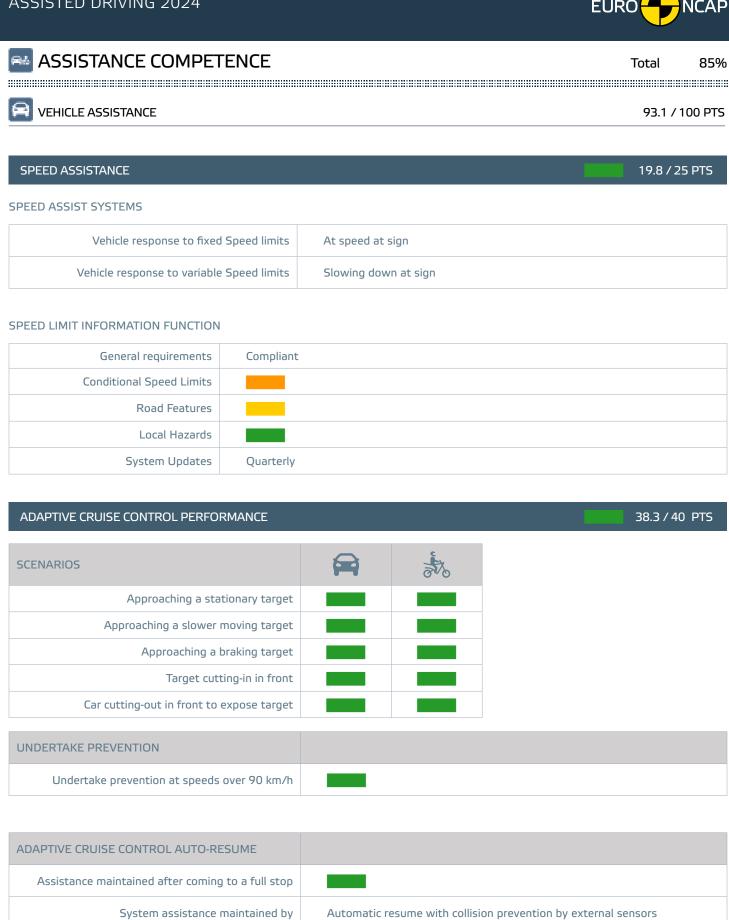
Certain situations might negatively influence the system's performance (e.g. poor weather, faded lane markings, construction zones, exiting a tunnel), resulting in a sudden interruption of the lateral and/or longitudinal support (system disengagement). Moreover, the system may fail to detect certain road users such as motorcyclists not directly in front of the vehicle, or stationary objects.

Appropriate fitness to drive is critical for safe travel, even when using Assisted Driving Systems. Visual distraction (e.g. eyes off the road), impairment (e.g. drowsiness, intoxication) as well as unresponsiveness, poses high risks. It is highly recommended to keep your hands on the steering wheel at all times to ensure immediate reaction when the system disengages.



ASSISTANCE COMPETENCE			Total	85%
RIVER ENGAGEMENT			85.0 / 10	
CONSUMER INFORMATION			25.0 / 25	PTS
System Name	Active Distance Assist DISTRONIC			
Marketing Material	Active Distance Assist DISTRONIC 🗹	Viewed 14 October 2024		
Quick Start Guide	•			
Vehicle Handbook	★ Viewed 14 October 2024			
SYSTEM STATUS			25.0 / 25	Pts
Continuous System Status Indicator				
System Status Change Indicator				
DRIVER MONITORING			10.0 / 20	PTS
Hands-on Monitoring				
Direct Driver Monitoring				
DRIVING COLLABORATION			25.0 / 25	5 Pts
Increase in Steering Torque				
Override response				
System continues to assist while driver	teers to avoid obstacle			
GOOD AD	QUATE MARGINAL	WEAK	POOR	





**MARGINAL** 

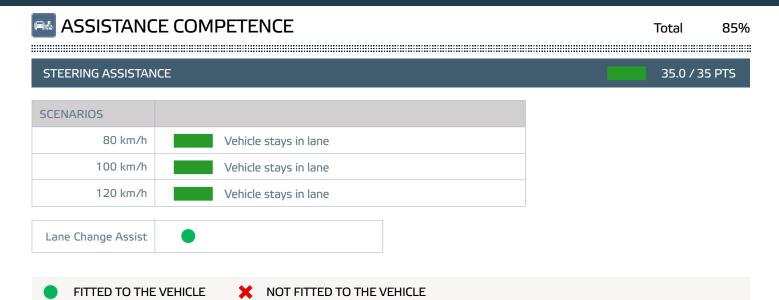
GOOD

**ADEQUATE** 

POOR

WEAK





GOOD

ADEQUATE

MARGINAL

WEAK

POOR



# SAFETY BACKUP

Total

97%

SYSTEM FAILURE	25.0 / 25 PTS			

	ENGAGEMENT	WARNING				
SENSOR BLOCKED AT START-UP						
Camera	Full blockage after a 5 minute drive	Yes after sensor blocking				
Radar Partial blockage after a 5 minute drive		Yes after sensor blocking				
SENSOR BLOCKED WITH VEHICLE IN MOTION, SYSTEM INACTIVE						
Camera	Full blockage after a 5 minute drive	Yes after sensor blocking				
Radar After a 5 minute drive		After sensor blocking				
SENSOR BLOCKED WITH VEHICLE IN MOTION, SYSTEM ACTIVE						
Camera	Full blockage within 2 minutes after blocking	After sensor blocking				
Radar	Partial blockage after sensor blocking	After sensor blocking				

## UNRESPONSIVE DRIVER INTERVENTION

23.0 / 25 PTS

Hands Off Warning Timeline

**COLLISION AVOIDANCE** 





0

49.2 / 50 PTS

 $\triangleright$ 

time

SCENARIOS			<b>关</b> 6%
Approaching a stationary target			_
Approaching a slower moving target			_
Approaching a braking target			_
Target cutting-in in front			_
Car cutting-out in front to expose target			_
Approaching the target along the roadside	_	_	

GOOD

**ADEQUATE** 

MARGINAL

WEAK

POOR