

 **Mercedes-Benz E-Class**
Active Distance Assist DISTRONIC

2023


VERY GOOD



ASSISTANCE
COMPETENCE

85%

SAFETY
BACKUP



99%

SPECIFICATION

SYSTEM NAME	Active Distance Assist DISTRONIC
Version Tested	E400e
STANDARD ACTIVE SAFETY SYSTEMS	
AEB Car-to-Car	●
AEB Vulnerable Road User	●
Lane Support Systems	●
Speed Assistance Systems	●

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 of sight by a head-up display. The Mercedes-Benz has an internal camera to check for 'microsleep' and combines this information with steering wheel input to monitor driver status. The system balances driver steering input with lane guidance, promoting co-operative driving.

The E-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 E-Class responds to avoid a collision in most 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 E-Class automatically moves to the slowest lane and performs a controlled stop. If the radar or camera is blocked the E-Class provides a timely warning and prevents system activation.

The E-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.




ASSISTANCE COMPETENCE

Total 85%

DRIVER ENGAGEMENT

85.0 / 100 Pts

CONSUMER INFORMATION 25.0 / 25 Pts

SYSTEM NAME	Active Distance Assist DISTRONIC
MARKETING MATERIAL	 Active Distance Assist DISTRONIC Mercedes-Benz Viewed 12 October 2023
QUICK START GUIDE	
VEHICLE HANDBOOK	 Viewed 12 October 2023

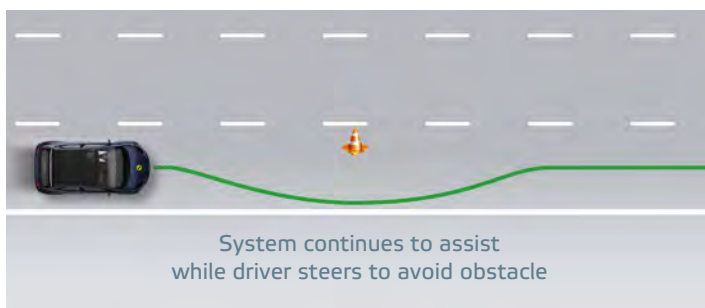
SYSTEM STATUS 25.0 / 25 Pts

Continuous System Status Indicator	
System Status Change Indicator	

DRIVER MONITORING 10.0 / 25 Pts

DRIVING COLLABORATION 25.0 / 25 Pts

Steering to avoid an obstacle



GOOD
 ADEQUATE
 MARGINAL
 WEAK
 POOR

ASSISTANCE COMPETENCE

Total 85%

VEHICLE ASSISTANCE

96.7 / 100 PTS

SPEED ASSISTANCE 24.9 / 25 Pts

SPEED ASSIST SYSTEMS

Vehicle response to fixed Speed limits	
Vehicle response to variable Speed limits	

ROAD FEATURES

Speed adaptation for corners



Speed adaptation for roundabouts



Speed adaptation for junctions



● FITTED TO THE VEHICLE
 — NOT AVAILABLE

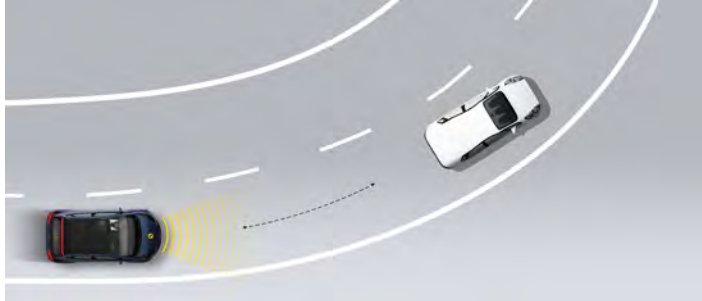
■ GOOD
 ■ ADEQUATE
 ■ MARGINAL
 ■ WEAK
 ■ POOR

ASSISTANCE COMPETENCE

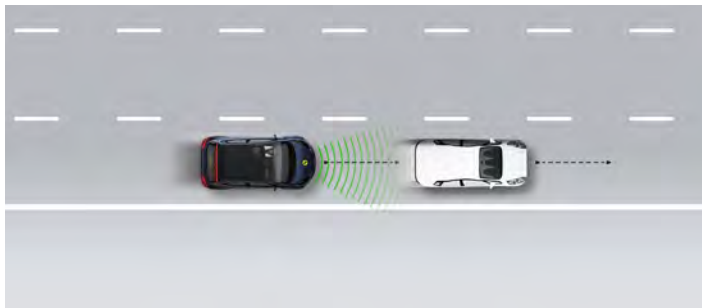
Total 85%

ADAPTIVE CRUISE CONTROL PERFORMANCE 36.8 / 40 Pts

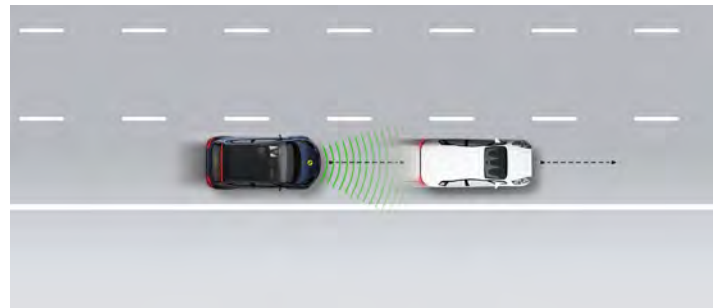
Approaching a stationary car



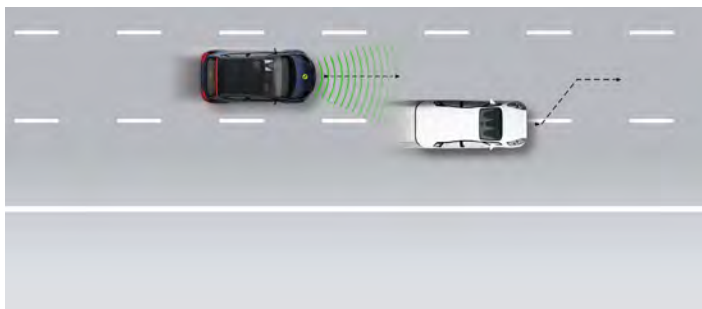
Approaching a slower moving car



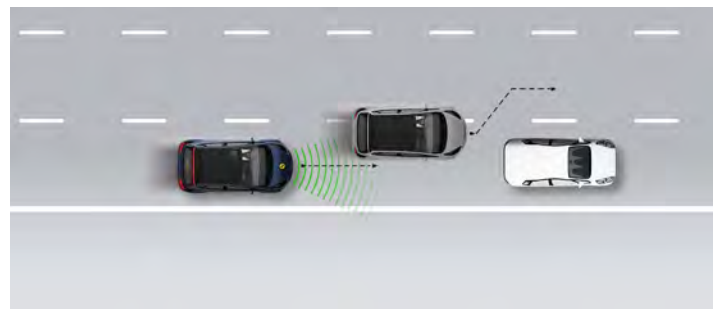
Approaching a braking car



Car cutting-in in front



Car cutting-out in front



UNDERTAKE PREVENTION	
Undertake prevention at speeds over 90 km/h	●

ADAPTIVE CRUISE CONTROL AUTO-RESUME	
Assistance maintained after coming to a full stop	●
System assistance maintained by	Automatic resume with collision prevention by external sensors

GOOD
 ADEQUATE
 MARGINAL
 WEAK
 POOR





 ASSISTANCE COMPETENCE

Total 85%

STEERING ASSISTANCE  35.0 / 35 Pts

Steering in an S-curve



80 km/h	
100 km/h	
120 km/h	
Lane Change Assist	

 GOOD  ADEQUATE  MARGINAL  WEAK  POOR

 SAFETY BACKUP

Total 99%

SYSTEM FAILURE 25.0 / 25 Pts

	ENGAGEMENT	WARNING
SENSOR BLOCKED AT START-UP		
Camera	System can NOT be engaged after a 5 minute drive	Visual Warning within 5 minutes after sensor blocking
Radar	System can NOT be engaged after a 5 minute drive	Visual Warning within 5 minutes after sensor blocking
SENSOR BLOCKED WITH VEHICLE IN MOTION, SYSTEM INACTIVE		
Camera	System can NOT be engaged after a 5 minute drive	Visual Warning within 5 minutes after sensor blocking
Radar	After a 5 minute drive	After sensor blocking
SENSOR BLOCKED WITH VEHICLE IN MOTION, SYSTEM ACTIVE		
Camera	Within 2 minutes after blocking	After sensor blocking
Radar	After sensor blocking	After sensor blocking

UNRESPONSIVE DRIVER INTERVENTION 25.0 / 25 Pts

Hands Off Warning Timeline



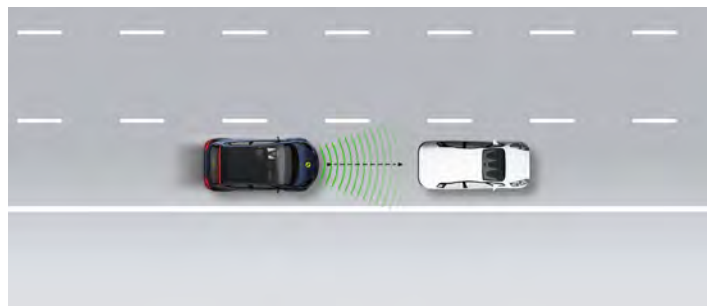
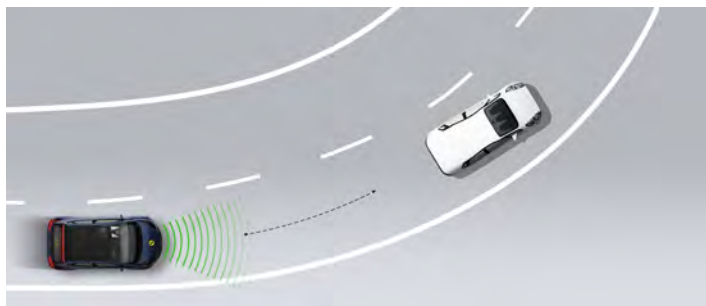
GOOD
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 SAFETY BACKUP

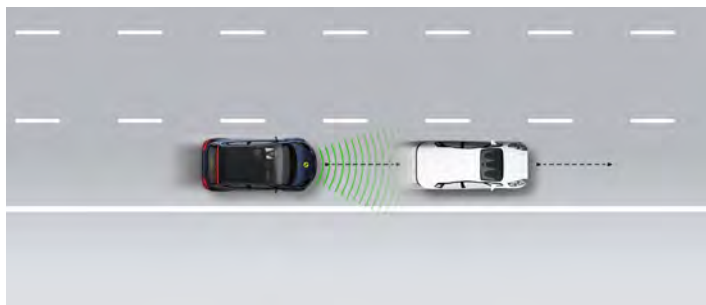
Total 99%

COLLISION AVOIDANCE  49.3 / 50 Pts

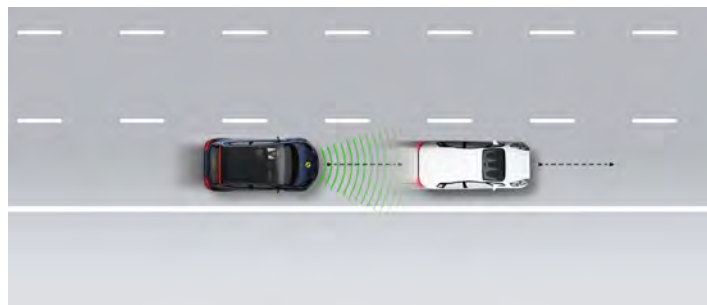
Approaching a stationary car



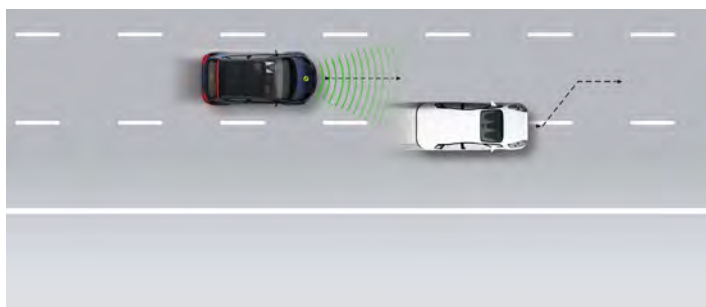
Approaching a slower moving car



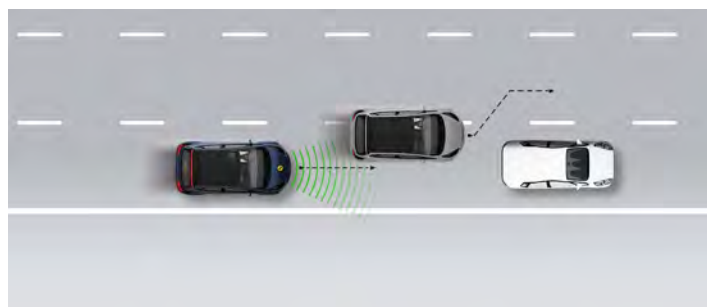
Approaching a braking car







Car cutting-in in front



Car cutting-out in front



 GOOD  ADEQUATE  MARGINAL  WEAK  POOR