



**Ford Mustang Mach-E**  
Co-Pilot360

2021



ASSISTANCE  
COMPETENCE



69%

SAFETY  
BACKUP



83%

## SPECIFICATION

SYSTEM NAME	Co-Pilot360
STANDARD ACTIVE SAFETY SYSTEMS	
AEB Car-to-Car	●
AEB Vulnerable Road User	●
Lane Support Systems	●
Speed Assistance Systems	●

### Comments

Ford's system name Co-Pilot 360 is inappropriate and indicates more functionality than the system is capable of. The promotional material and the handbook correctly indicate the limitations of the system capabilities. Status information is clear but the Mustang Mach-E does not offer a head-up display. Ford equipped the Mach-E with an internal camera but it is not used for the functionality tested in Driver Monitoring, and relies only on steering wheel input. The system balances driver steering input with lane guidance, promoting co-operative driving.

Ford combines map-based speed limit information with real time camera inputs to manage fixed, variable and temporary speed limit signs. The system cannot adapt speed for upcoming road features such as curves and junctions. The Mustang Mach-E responds to avoid a collision in most of the ACC test scenarios and requires AEB interventions in the more critical stopped vehicle, cut-in and cut-out tests. The driver is supported through the S-Bend, but the car stays centred in the lane only at the lowest test speed. The vehicle has an Active Blindspot system designed to prevent lane changing into adjacent vehicles. A lane-change assist function is not available. In case of an unresponsive driver, the Ford slows to approximately 10 km/h and stays in lane. If the radar or camera are blocked the Mustang Mach-E provides a timely warning and prevents system activation.

**The Ford Mustang Mach-E provides a good level of Vehicle Assistance with a similar level of Driver Engagement resulting in a good, balanced system.**

**ASSISTANCE COMPETENCE**

Total 69%

**DRIVER ENGAGEMENT**

69.1 / 100 PTS

**CONSUMER INFORMATION** 15.0 / 25 Pts

SYSTEM NAME	Co-Pilot360
MARKETING MATERIAL	Co-Pilot 360   Ford Viewed 12 November 2021
QUICK START GUIDE	
VEHICLE HANDBOOK	Viewed 12 November 2021

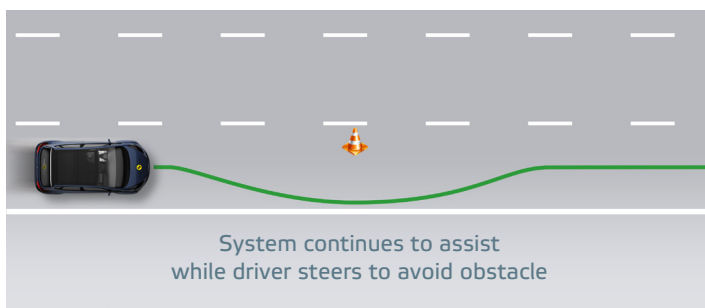
**SYSTEM STATUS** 19.1 / 25 Pts

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
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**ASSISTANCE COMPETENCE**

Total 69%

**VEHICLE ASSISTANCE**

71.8 / 100 PTS

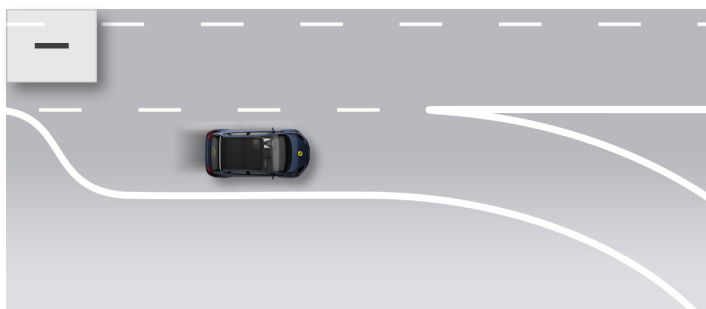
**SPEED ASSISTANCE** 15.8 / 25 Pts

SPEED ASSIST SYSTEMS

Vehicle response to fixed Speed limits	Slowing down at sign
Vehicle response to variable Speed limits	Slowing down at sign

ROAD FEATURES

Speed adaptation for corners



Speed adaptation for roundabouts



Speed adaptation for junctions



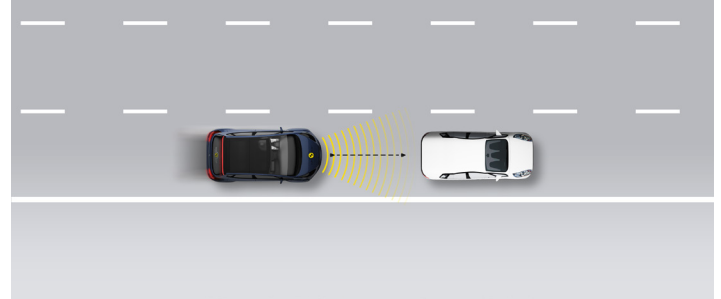
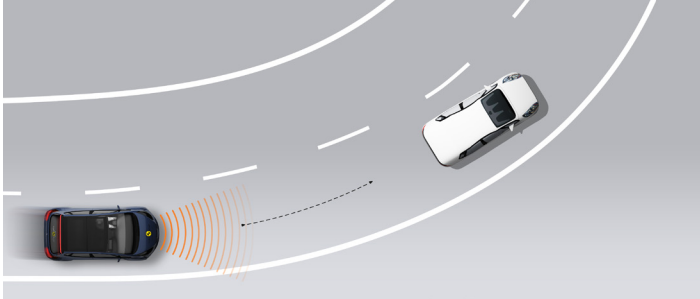
● FITTED TO THE VEHICLE    
 — NOT AVAILABLE

**ASSISTANCE COMPETENCE**

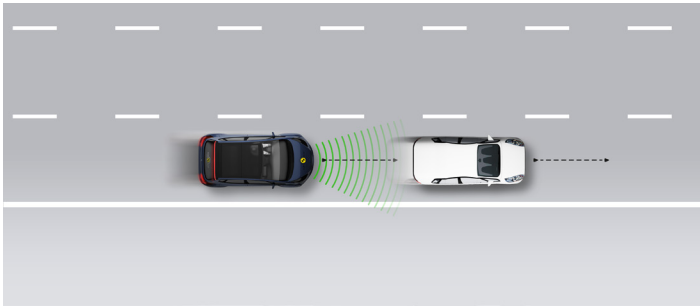
Total 69%

**ADAPTIVE CRUISE CONTROL PERFORMANCE** 28.5 / 40 Pts

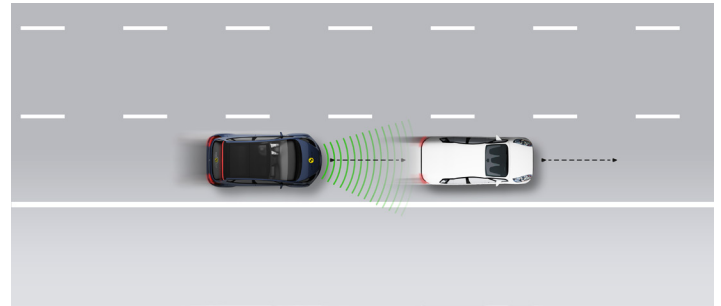
Approaching a stationary car



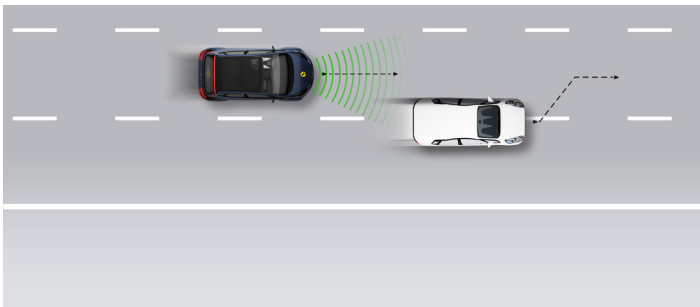
Approaching a slower moving car



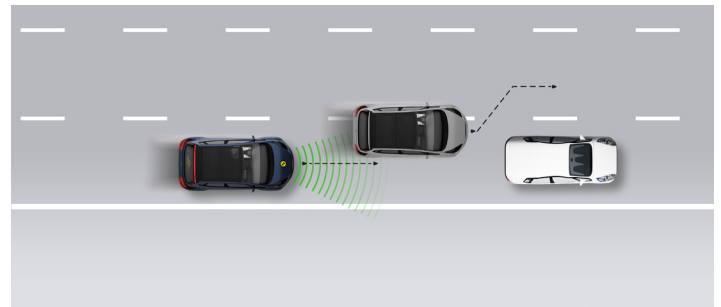
Approaching a braking car



Car cutting-in in front



Car cutting-out in front



UNDERTAKE PREVENTION	
Undertake prevention at speeds over 90 km/h	<b>✗</b>

ADAPTIVE CRUISE CONTROL AUTO-RESUME	
Assistance maintained after coming to a full stop	<b>●</b>
System assistance maintained by	Automatic resume within 5s of stop and driver input required over 5s

**ASSISTANCE COMPETENCE**

Total 69%

**STEERING ASSISTANCE** 27.5 / 35 Pts

Steering in an S-curve



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

SAFETY BACKUP

Total 83%

SYSTEM FAILURE 24.0 / 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 20.0 / 25 Pts

Hands Off Warning Timeline

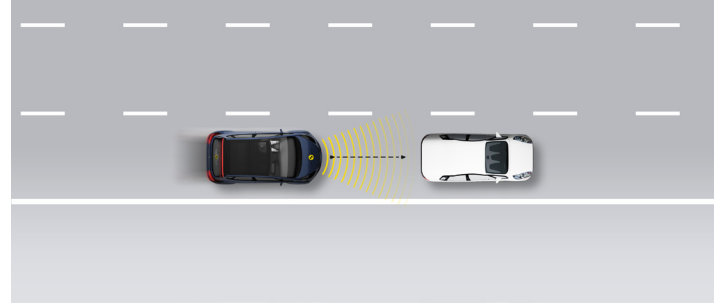
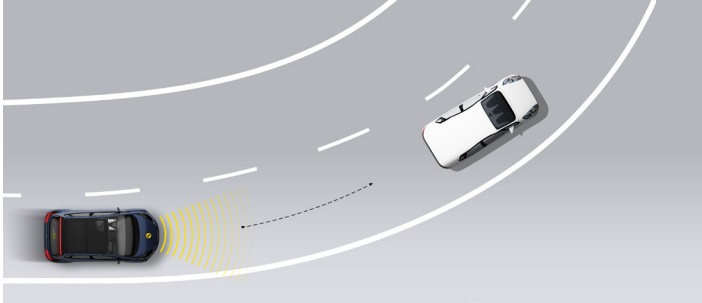


 SAFETY BACKUP

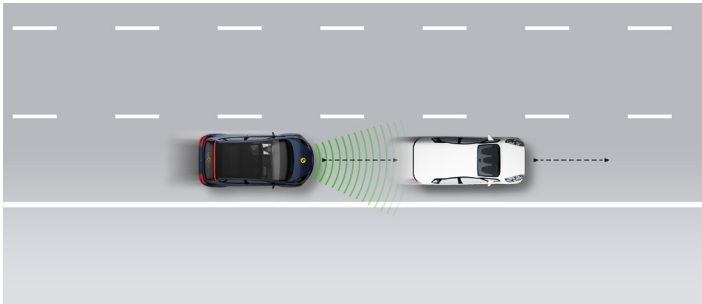
Total 83%



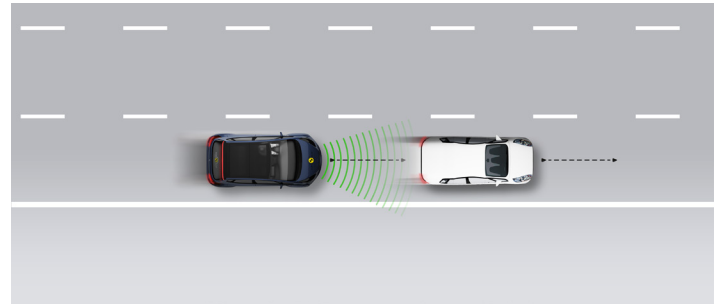
Approaching a stationary car



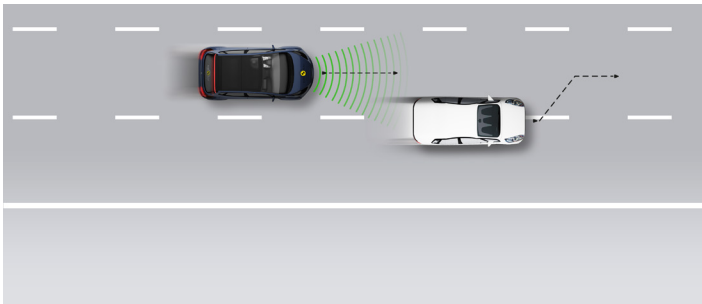
Approaching a slower moving car



Approaching a braking car



Car cutting-in in front



Car cutting-out in front

