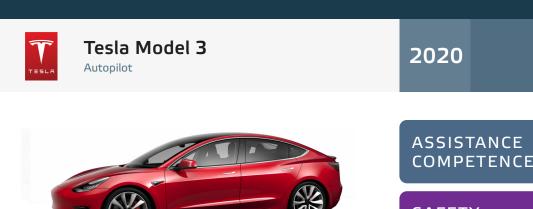
ASSISTED DRIVING 2020



ASSISTANCE COMPETENCE	36%
SAFETY BACKUP	95%

MODERATE

OR SAFER C

NCAP

EURC

SPECIFICATION

SYSTEM NAME	Autopilot
Version Tested	Software 2020.36.10 Hardware 3.0 with Full Self-Driving Capability
STANDARD ACTIVE SAFETY SYSTEMS	
AEB Car-to-Car	
AEB Vulnerable Road User	
Lane Support Systems	
Speed Assistance Systems	
ALSO AVAILABLE ON	Model S - Model X

Comments

Tesla's system name **Autopilot** is inappropriate as it suggests full automation. The promotional material suggests automation where the handbook correctly indicates the limitations of the system capabilities, which could lead to confusion. Status information is clear, but the Model 3 does not offer a head-up display showing the system status in the driver's direct line of sight. While the Tesla is equipped with an internal camera, it is not used for Driver Monitoring relying only on steering wheel input for driver engagement. The system resists driver steering input and then disengages, limiting co-operative driving.

Tesla uses map-based speed limit information on highways to manage changes on highways but responds to variable and temporary speed limit signs only on urban roads. The system adapts speed for upcoming road features such as curves and junctions. The Model 3 responds to avoid a collision in all the ACC test scenarios and requires AEB interventions only in the most critical cut-in and cut-out tests. The driver is supported through the S-Bend, staying centred in 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 also provided. In case of an unresponsive driver, the Tesla performs a controlled stop in lane. If the radar or camera are blocked the Model 3 provides a timely warning and prevents system activation.

The Tesla Model 3 excels in the level of Vehicle Assistance but fails to balance that high level of support with a similar level of Driver Engagement leading to possible overreliance. Euro NCAP tested the latest version of AutoPilot available at the time of testing. Tesla can improve the functionality of the system remotely by over-the-air software updates.



Total

ASSISTANCE COMPETENCE

5 DRIVER ENGAGEMENT

36.5 / 100 PTS

10.0 / 25 Pts

0.0 / 25 Pts

36%

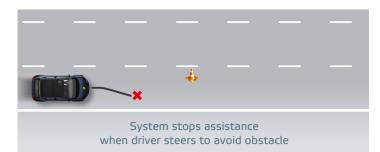


SYSTEM STATUS	16.5 / 25 Pts
Continuous System Status Indicator	
System Status Change Indicator	

DRIVER MONITORING

DRIVING COLLABORATION

Steering to avoid an obstacle





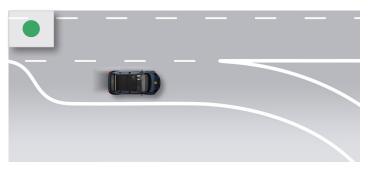
EURO

ASSISTANCE COMPETENCE	Total	36%
SPEED ASSISTANCE	16.7 / 2	25 Pts
SPEED ASSIST SYSTEMS		

Vehicle response to fixed Speed limits	Slowing down at sign
Vehicle response to variable Speed limits	No response

ROAD FEATURES

Speed adaptation for corners



Speed adaptation for round-abouts



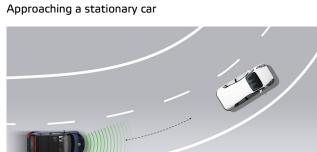
Speed adaptation for junctions



FITTED TO THE VECHILE - NOT AVAILABLE

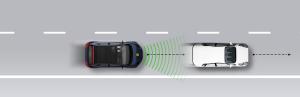


ADAPTIVE CRUISE CONTROL PERFORMANCE



Approaching a slower moving car

Car cutting-in in front





Car cutting-out in front

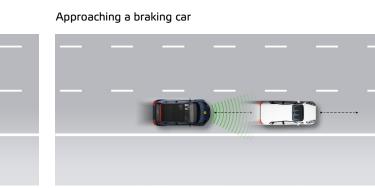




ADAPTIVE CRUISE CONTROL AUTO-RESUME	
Assistance maintained after coming to a full stop	
System assistance maintained by	Automatic resume with collision prevention by external sensors



Total





40.0 / 40 Pts

36%



Total

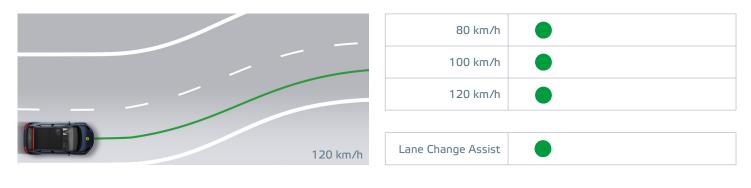
ASSISTANCE COMPETENCE

STEERING ASSISTANCE

35.0 / 35 Pts

36%

Steering in an S-curve





SAFETY BACKUP

Total 95%

25.0 / 25 Pts

SYSTEM FAILURE

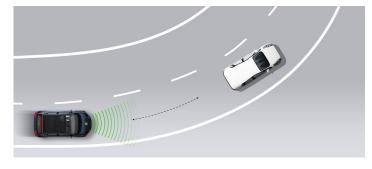
	ENGAGEMENT	WARNING	
SENSOR BLOCKED AT START-UP			
Camera	System can NOT be engaged after a 5 minute drive	Visual Warning within 5 minutes after sensor blocking	
Radar	System can NOT be engaged after a 5 minute drive	Visual Warning within 5 minutes after sensor blocking	
SENSOR BLOCKED WITH VEHICLE IN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

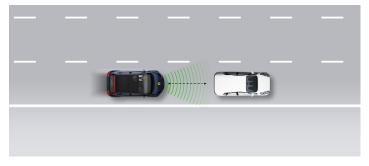
UNRESPONSIVE DRIVER INTERVENTION 20.0 / 25 Pts Hands Off Warning Timeline бтор \triangleright 0 time



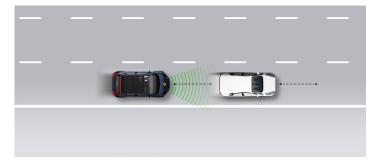
SAFETY BACKUP	Total	95%
COLLISION AVOIDANCE	50.0 / 5	i0 Pts

Approaching a stationary car

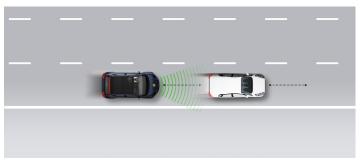




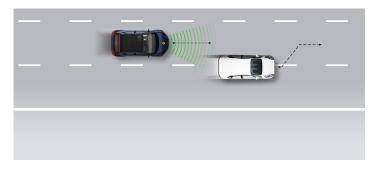
Approaching a slower moving car



Approaching a braking car



Car cutting-in in front



Car cutting-out in front

