



**Nissan Juke**  
ProPILOT

2020

**MODERATE**



ASSISTANCE  
COMPETENCE



52%

SAFETY  
BACKUP



72%

## SPECIFICATION

SYSTEM NAME	ProPILOT
STANDARD ACTIVE SAFETY SYSTEMS	
AEB Car-to-Car	●
AEB Vulnerable Road User	●
Lane Support Systems	●
Speed Assistance Systems	●
ALSO AVAILABLE ON	Leaf - Qashqai

### Comments

Nissan's system name **ProPilot**, which Nissan considered changing to ProPilot Assist after the 2018 release, remains inappropriate and suggests full automation. The promotional material and the handbook correctly indicate the limitations of the system capabilities. Status information is clear, and the Juke does not offer a head-up display showing the system status in the driver's direct line of sight. Nissan did not equip the Juke with an internal camera and relies only on steering wheel input for Driver Monitoring. The system balances driver steering input with lane guidance, promoting co-operative driving.

Nissan 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 Juke avoids a collision with moving vehicles in the ACC test scenarios but fails to respond to stopped cars. AEB interventions provide limited additional support in critical situations. The driver is supported through the S-Bend at the lower test speeds but the system fails to assist at the second turn in the highest 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 Nissan performs a controlled stop in lane. If the radar or camera are blocked the Juke provides a timely warning and prevents system activation.

**The Nissan Juke provides the essential functionality required for Vehicle Assistance balanced with a similar level of Driver Engagement but lacks the sophistication of more advanced systems resulting in a Moderate level grading due to a good Safety Back-up.**

**ASSISTANCE COMPETENCE**

Total 52%

**DRIVER ENGAGEMENT**

70.9 / 100 PTS

**CONSUMER INFORMATION** 20.0 / 25 Pts

SYSTEM NAME	ProPILOT
MARKETING MATERIAL	ProPILOT   Nissan Viewed 12 September 2020
QUICK START GUIDE	
VEHICLE HANDBOOK	Viewed 12 September 2020

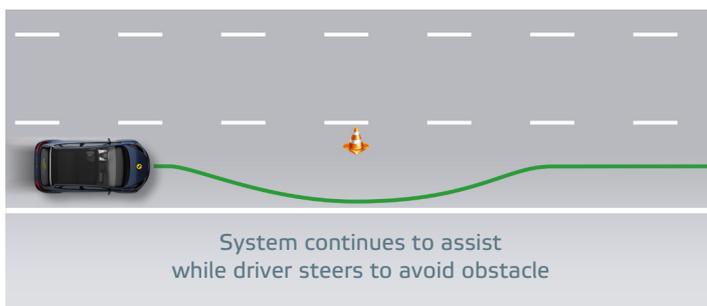
**SYSTEM STATUS** 15.9 / 25 Pts

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 52%

**VEHICLE ASSISTANCE**

52.2 / 100 PTS

**SPEED ASSISTANCE**



8.9 / 25 Pts

SPEED ASSIST SYSTEMS

Vehicle response to fixed Speed limits	Start slowing down after sign
Vehicle response to variable Speed limits	Start slowing down after sign

ROAD FEATURES

Speed adaptation for corners



Speed adaptation for roundabouts



Speed adaptation for junctions



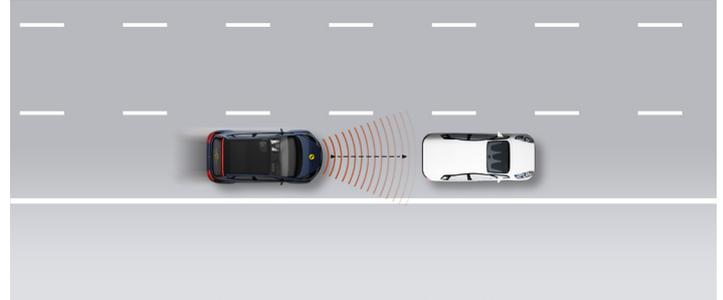
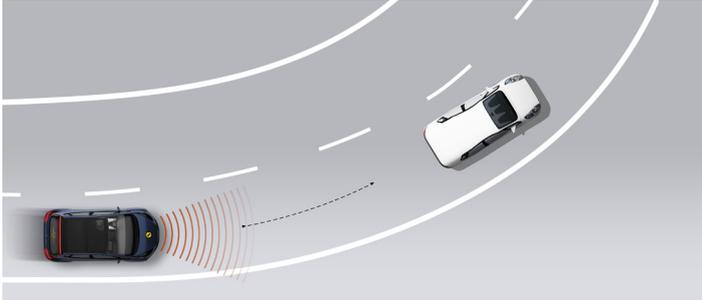
● FITTED TO THE VEHICLE    — NOT AVAILABLE

**ASSISTANCE COMPETENCE**

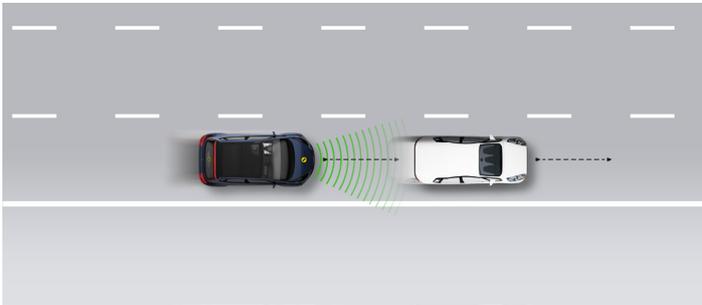
Total 52%

**ADAPTIVE CRUISE CONTROL PERFORMANCE** 20.9 / 40 Pts

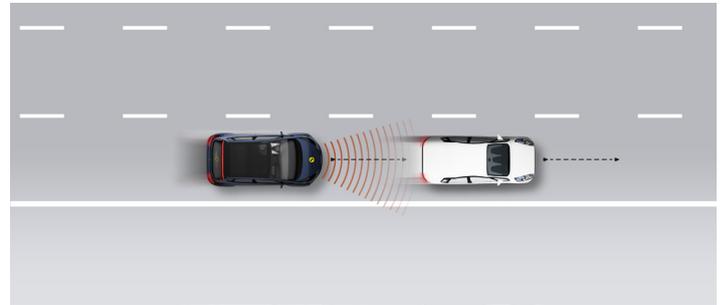
Approaching a stationary car



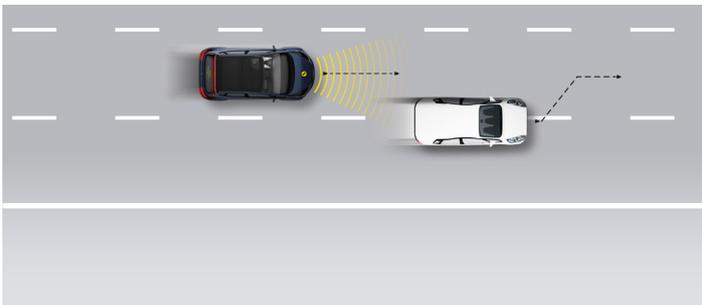
Approaching a slower moving car



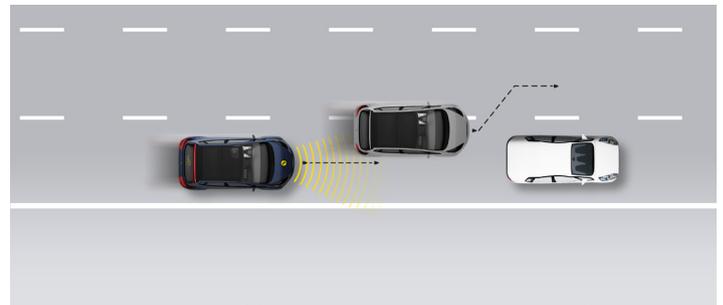
Approaching a braking car



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 52%

**STEERING ASSISTANCE** 22.5 / 35 Pts

Steering in an S-curve



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

**SAFETY BACKUP**

Total 72%

**SYSTEM FAILURE** 20.0 / 25 Pts

	ENGAGEMENT	WARNING
<b>SENSOR BLOCKED AT START-UP</b>		
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
<b>SENSOR BLOCKED WITH VEHICLE IN MOTION, SYSTEM INACTIVE</b>		
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
<b>SENSOR BLOCKED WITH VEHICLE IN MOTION, SYSTEM ACTIVE</b>		
Camera	System cancels within 2 minutes after blocking	Visual Warning within 5 minutes after sensor blocking
Radar	System stays active after sensor blocking	Visual Warning within 5 minutes after sensor blocking

**UNRESPONSIVE DRIVER INTERVENTION** 20.0 / 25 Pts

Hands Off Warning Timeline

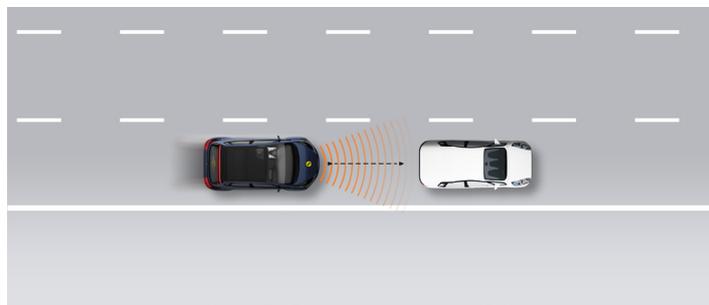
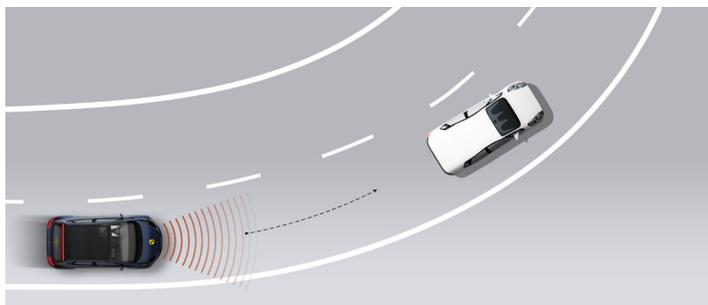


 SAFETY BACKUP

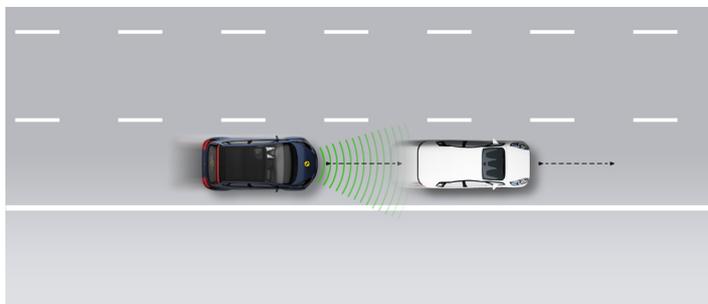
Total 72%

COLLISION AVOIDANCE  32.3 / 50 Pts

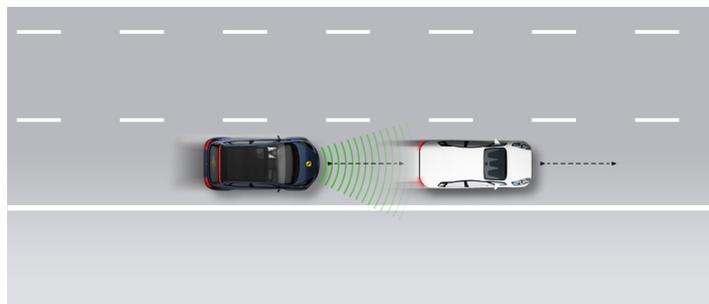
Approaching a stationary car



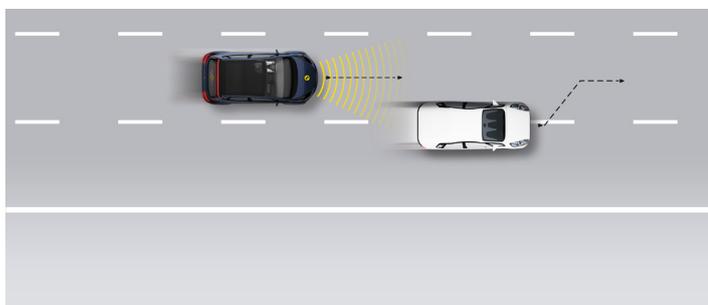
Approaching a slower moving car



Approaching a braking car



Car cutting-in in front



Car cutting-out in front

