

## Motorcycles and cars tested by german automobile club ADAC

German automobile club ADAC only tested models that had been examined for the ADAC Autotest car reviews. Whether they are equipped with keyless entry depends on the manufacturer. Unfortunately, we cannot make any reliable statements regarding cars not listed below. However, we fear that quite a few vehicles equipped with keyless entry may be stolen in this manner.

Last update: 16 January 2019

## Cars

Manufacturer	Model	First registration	Illegal unlock-ing possible?	Illegal engine start possible?	Comments	
Alfa Romeo	Giulia	4/2016	X	X		
	Stelvio	9/2017	X	X		
Audi	A3	10/2015	X	X		
	A3	9/2017	X	X		
	A4	9/2015	X	X		
	A4 Avant	9/2015	X	X		
	A4 Avant g-tron	5/2017	X	X		
	A5	5/2016	X	X		
	A5 Cabrio	12/2016	X	X		
	A6	9/2014	X	X		
	A6 allroad	1/2012	X	X		
	A8	8/2017	X	X		
	Q2	5/2016	X	X		
	Q7 e-tron	9/2017	X	X		
	R8	12/2015	X	X		
	S5 Sportback	10/2016	X	X		
	SQ7	3/2016	X	X		
	Audi	TT RS	8/2016	X	X	
TTS		12/2014	X	X		
BMW		218d	3/2018	X	X	
		225xe	7/2016	X	X	
	230i	7/2017	X	X		
	M240i Coupé	7/2017	X	X		
	318i	10/2015	X	X		
	318d	8/2016	X	X		
	320i	7/2017	X	X		
	440i Grand Coupé	3/2017	X	X		
	520d	11/2016	X	X		
	520i	7/2017	X	X		
	520d	7/2018	X	X		
	530d touring	3/2017	X	X		
	630 GT	11/2017	X	X		
	640d	1/2016	X	X		
	730d	8/2015	X	X		
	730d	3/2017	X	X		
740	5/2015	X	X			
740d	3/2016	X	X			
	i3	9/2014	*	X	* Keyless Start only, not -Open	
	i3 94 Ah	7/2016	X	X		

	i3 94 Ah	5/2016	X	X	
	i3	11/2017	X	X	
	i8 Roadster	3/2018	X	X	
	X1	11/2015	X	X	
	X1 SDrive 18d	6/2016	X	X	
	X1 18d	6/2018	X	X	
	X2	12/2017	X	X	
	X3	10/2017	X	X	
	X3 xDrive 20i	2/2018	X	X	
	X4 xDrive 30i	5/2018	X	X	
Chevrolet	Camaro	9/2017	X	X	
Citroen	DS4 CrossBack	11/2015	X	X	
	C3 Pure Tech	11/2016	X	X	
	C4 Picasso	7/2014	X	X	
	C4 Picasso HDI	5/2014	X	X	
	Spacetourer	8/2016	X	X	
DS Automobiles	DS7	12/2017	X	X	
Fiat	124 Spider	5/2016	X	X	
	500x	5/2017	X	X	
Ford	Eco-Sport	10/2015	X	X	
	Eco-Sport 1.5	7/2018	X	X	
	Edge	5/2016	X	X	
	Fiesta	7/2017	X	X	
	Fiesta	6/2017	X	X	
	Focus RS	4/2016	X	X	
	Galaxy	5/2014	X	X	
	Kuga Vignale	1/2017	X	X	
	Mustang	9/2015	X	X	
	S-Max	11/2015	X	X	
Honda	Civic	12/2018	X	X	
	HR-V	6/2015	X	X	
Hyundai	i10	11/2016	X	X	
	i20	5/2018	X	X	
	i30	4/2015	X	X	
	i30	6/2017	X	X	
	i30 1.4 T-GDI	1/2017	X	X	
	i30	1/2018	X	X	
	i40	4/2016	X	X	
	Ioniq	1/2017	X	X	
	Ioniq	6/2017	X	X	
	iX35 Fuel Cell	6/2015	X	X	
	Nexo	5/2018	X	X	
	Kona	7/2018	X	X	
	Kona 1.0 T-GDI	11/2017	X	X	
	Santa Fé	8/2015	X	X	
	Tucson 1.6	7/2018	X	X	
Infiniti	Q30	4/2016	X	*	* keyless Open only, not -Start
Jaguar	F-Pace	6/2016	X	X	
	i-Pace	4/2018	no	no	more security with uwb
Jeep	Compass	5/2017	X	X	
KIA	Ceed	7/2018	X	X	
	Ceed 1.6 CRDi	7/2018	X	X	
	Niro Hybrid	7/2016	X	X	
	Optima	11/2015	X	X	
	Optima	8/2016	X	X	
	Optima Plugin-Hybrid	10/2016	X	X	
	Optima	5/2018	X	X	
	Optima	9/2018	X	X	
	Rio 1.0F GDI	1/2017	X	X	
	Sorento	10/2017	X	X	

	Sportage CRDI	4/2017	X	X	
	Sportage 2.0 CRDI	7/2018	X	X	
	Stinger	9/2017	X	X	
	Stonic 1.0	8/2017	X	X	
LandRover	Discovery	6/2016	X	X	
	Discovery	3/2018	no	no	more security with uwb
	Range Rover	2/2018	no	no	more security with uwb
	Range Rover Evoque	9/2015	X	X	
Lexus	CT 200	11/2017	X	X	
	RX 450h	12/2015	X	X	
Mazda	2 Skyactive 90 Kizohu	5/2018	*	X	* keyless Start only, not -Open
	3 Skyactive	4/2016	X	X	
	3 Skyactive	12/2016	X	X	
	6	7/2018	X	X	
	CX-5	3/2015	X	X	
	CX-5	9/2017	X	X	
	MX-5	4/2017	X	X	
Mercedes	A 200 AMG	2/2018	X	X	
	C 220D	5/2018	X	X	
	C 200	5/2018	X	X	
	E 200 Cabrio	5/2017	X	X	
	E 220d	12/2015	X	X	
	E 220d T-Modell	8/2016	X	X	
	E 400 Coupé	1/2017	X	X	
	E 400d AMG	12/2017	X	X	
	S 400d	8/2017	X	X	
MINI	Clubman	8/2015	X	X	
	Cooper S Cabrio	4/2016	X	X	
	Cooper Countryman	1/2017	X	X	
	One	7/2018	X	X	
Mitsubishi	Outlander	5/2016	X	X	
	Outlander	12/2013	X	X	
	Space Star	3/2016	X	X	
Nissan	Leaf	5/2012	X	X	
	Leaf	5/2016	X	X	
	Leaf	4/2018	X	X	
	Micra	5/2017	X	X	
	Navara	11/2016	X	X	
	Qashqai	2/2016	X	X	
	Qashqai+2	11/2013	X	X	
	Qashqai 1.6 dCi	8/2017	X	X	
Opel	Ampera	3/2012	X	X	
	Ampera E	1/2017	X	X	
	Astra	4/2016	X	X	
	Crossland X 1,2 DI	3/2017	X	X	
	Grandland 1.2 DI	8/2017	X	X	
	Grandland X	3/2018	X	X	
	Insignia Grand Sport	5/2017	X	X	
	Insignia 1.5	5/2017	X	X	
	Insignia Sports Tourer	5/2017	X	X	
	Insignia	7/2017	X	X	
Peugeot	308 SW 2.0	12/2017	X	X	
	508 SW	5/2012	X	X	
	508 1.6	7/2018	X	X	
	3008	10/2016	X	X	
	5008 BlueHDi 150	5/2017	X	X	
Renault	Captur	3/2016	X	X	
	Captur TCe 120	6/2017	X	X	
	Clio	10/2016	X	X	
	Grand Scenic	2/2017	X	X	

	Kadjar	5/2015	X	X	
	Kadjar	3/2017	X	X	
	Koleos	6/2017	X	X	
	Megane	1/2016	X	X	
	Megane Grandtour	8/2016	X	X	
	Scenic	10/2016	X	X	
	Scenic	8/2017	X	X	
	Talisman	12/2015	X	X	
	Talisman Grandtour	5/2016	X	X	
	Traffic	11/2015	X	X	
	Zoe	12/2016	X	X	
Seat	Arona	8/2017	X	X	
	Ateca	5/2016	X	X	
	Ibiza	3/2017	X	X	
	Leon 1.4 TSI	11/2016	X	X	
	Leon	11/2017	X	X	
Skoda	Karoq 1.5 TSI	9/2017	X	X	
	Kodiaq	11/2016	X	X	
	Octavia	12/2015	X	X	
	Octavia	2/2016	X	X	
	Octavia 1.4 TSI	4/2017	X	X	
	Octavia 1.5 TSI	1/2018	X	X	
	Octavia Combi RS	6/2017	X	X	
	Rapid Spaceback	7/2017	X	X	
	Superb 1,6TDi	12/2015	X	X	
SsangYong	Rexton	10/2017	X	X	
	Tivoli XDi	9/2015	X	X	
Suzuki	Baleno	4/2016	X	X	
	Ignis	1/2018	X	X	
	Swift	3/2017	X	X	
	Swift Sport	4/2018	X	X	
	SX4 S-Cross	7/2016	X	X	
	Vitara	9/2015	X	X	
Subaru	Forester 2.0 D	8/2017	X	X	
	Impreza	11/2017	X	X	
	Levorg	8/2015	X	X	
	Outback	3/2018	X	X	
	XV	11/2017	X	X	
Tesla	Model S P85	11/2014	X	X	
	Model X	6/2017	X	X	
Toyota	C-HR 1.8 Hybrid	11/2016	X	X	
	C-HR	12/2016	X	X	
	Mirai	2/2016	X	X	
	Prius	10/2007	X	X	
	Prius 1.8 Hybrid	1/2016	X	X	
	Prius Plug-in-Hybrid	3/2017	X	X	
	RAV4	12/2015	X	X	
	Verso	7/2015	X	X	
Volvo	V40	5/2016	X	X	
	S90	6/2016	X	X	
	S90 D5	9/2016	X	X	
	V60	5/2018	X	X	
	V60 D3	7/2018	X	X	
	V90 D5	9/2016	X	X	
	V90 D3	7/2018	X	X	
	V90 D4	1/2018	X	X	
	XC 40	1/2018	X	X	
	XC 40	5/2018	X	X	
	XC 60	12/2017	X	X	
	XC 60 T5	11/2017	*	X	* keyless Start only, not -Open
	XC 90 T8	12/2016	X	X	

Volkswagen	Arteon 2.0 TDI	4/2017	X	X	
	eGolf	3/2017	X	X	
	Golf 7 TSI	8/2015	X	X	
	Golf 7 Variant 1.4 TSI	8/2015	X	X	
	Golf 7 1.5 TSI	11/2016	X	X	
	Golf 7 GTD	10/2013	X	X	
	Golf 7 GTD	12/2016	X	X	
	Passat 2.0 TDI B8	12/2016	X	X	
	Passat GTE B8	11/2016	X	X	
	Passat	9/2018	X	X	
	Tiguan AD1	3/2016	X	X	
	Tiguan AD1	7/2016	X	X	
	Tiguan Allspace	9/2017	X	X	
	Touran 5T	12/2015	X	X	
	Touareg 3.0 V6	4/2018	X	X	

237

## Motorcycles

Manufacturer	Model	First registration	Illegal ignition on/handlebar unlocking possible?	Illegal engine start possible?	Comments
BMW	R 1200 RS	09/2016	X	X	
Ducati	Multistrada 1200 D-air	02/2017	X	X	
KTM	Super Duke R	03/2017	X	X	

3

---

### This is how keyless entry works

To unlock their vehicle, all car or motorcycle owners have to do is carry the key fob. As they approach their vehicle, the vehicle recognises the wireless signals emitted by the key fob. The central locking system unlocks the doors as soon as you touch the door handle (or press a button in the handle). In the case of motorcycles, the handlebar lock is unlocked. The key need not be inserted in the ignition to start the engine: you simply press the start button. Keyless systems (BMW: Comfort Access) are widely used – even in supermini cars and increasingly on motorcycles. Some of them cost from several hundred euros to over €1,000 extra, others come standard or are an inseparable part of (actually useful) driver assistance packages.

To steal a keyless vehicle, thieves need not perform a data hack or crack encryption programmes. A simple wireless extender, similar to the CB radio amplifier used in the past, is all it takes. A stolen car keeps running – even without the key fob – until it runs out of fuel (or is refuelled) or until the thief stalls or turns off the engine. Usually, the stolen vehicles are taken abroad right after the theft where they get new key fobs which ensure normal unlocking and starting.

---

### ADAC position

- Wrapping tin foil around the key fob is no reliable remedy because the foil does not always provide reliable insulation and may be damaged by the jagged edges of other keys. Also: if a vehicle is stolen in spite of this, the owner may be assigned part of the blame for not wrapping the foil tightly enough around the key fob. Metal cans do not always provide protection against radio waves.
- It is the duty of vehicle manufacturers to ensure that more expensive locking systems are not

much easier to crack than conventional remote control systems.

- If you already own a keyless vehicle: check your manual (or ask your garage) to find out whether it can be deactivated. If so, your vehicle will usually not be defeated by the method shown here – but it will only work without the (often very expensive) keyless comfort.

FTKTHI