

Denoxtronic 3.1 – SCR System for Passenger Cars and Light Commercial Vehicles



BOSCH
Invented for life

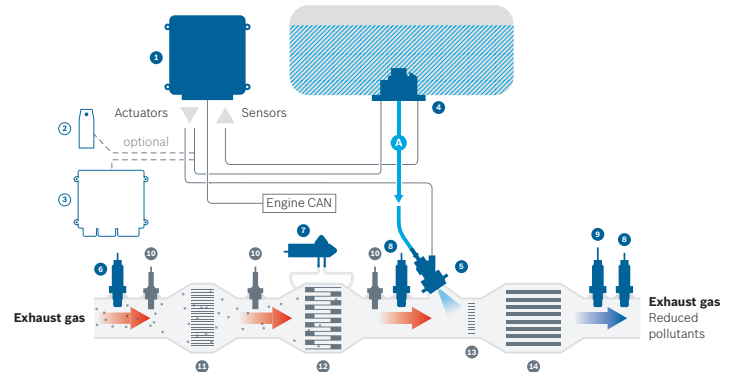


In order to reduce the environmental burden of toxic substances emitted by motor vehicles, in 2010 the Environmental Protection Agency (EPA) mandated that the worldwide limits for emissions from motor vehicles be continuously reduced.

The Bosch Denoxtronic System is the leading OEM emissions solution utilizing Selective Catalytic Reduction (SCR) technology. SCR technology is an Exhaust Gas Treatment strategy designed to reduce oxides of nitrogen (NOx) emissions from diesel vehicles. NOx gasses react in the atmosphere to form smog and acid rain. The Bosch Denoxtronic system is made up of an SCR catalyst and a urea dosing system. When combined, these components convert up to 95% of the harmful NOx emissions in to harmless nitrogen, water, and CO₂. This allows diesel engines to run leaner and burn less fuel without the harmful emissions previously caused by lean conditions.

The Denoxtronic 3.1 system was specifically developed for use in diesel powered passenger cars and light commercial vehicles. It has been in series production at several OEMs since 2008.

Bosch Denoxtronic exhaust-gas treatment for cars and light commercial vehicles:



Bosch components

- ① Dosing control unit / electronic engine control unit
- ② Optionally with engine control unit: heater control unit
- ③ Optionally with engine control unit: Glow-time control unit
- ④ Supply module
- ⑤ Dosing module
- ⑥ Lambda sensor
- ⑦ Differential pressure sensor
- ⑧ NO_x sensor
- ⑨ Particle sensor

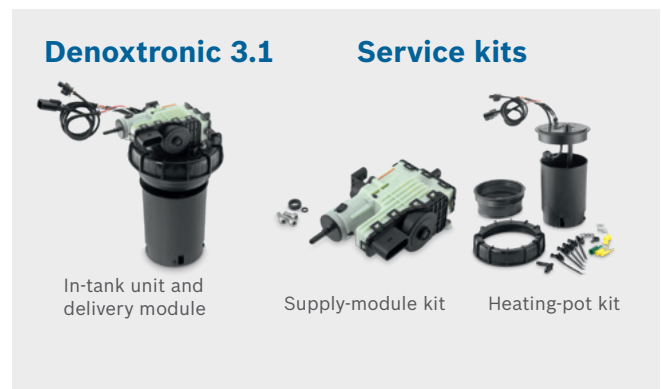
Other components

- ⑩ Temperature sensor
- ⑪ Oxidation catalytic converter (optional: NO_x storage catalyst)
- ⑫ Diesel particulate filter
- ⑬ Mixer
- ⑭ SCR catalytic converter
- A AdBlue®
- Electronic connection
- Hot / cold

Dosing modules



Bosch service kits allow quick replacement of individual Denoxtronic modules:



Key Applications See other side for additional listings

Key Applications

Make	Model	Model Years	Displacement (L)	Heating Pot Kit PN		Supply Module Kit PN		Dosing Module PN	
				Bosch PN	OE Xref	Bosch PN	OE Xref	Bosch PN	OE Xref
BMW	335	2010-2011	3	F01C600252	16196765825	F01C600210	16197244137	0444021013	18307807206
BMW	X5	2010-2013	3	F01C600251	16196765824				
FORD	TRANSIT	2015	3.2	see note ¹		F01C600311	BC3Z5L227K	0444021058	AL3E5J281AC
FORD	F250	2011-2015	6.7	see note ¹					
FORD	F350	2011-2015	6.7	see note ¹					
FORD	F450	2011-2015	6.7	see note ¹					
FREIGHTLINER	SPRINTER	2014-2015	2.1	F01C600228	(A)9064700353	F01C600265	24707794	0444021031	(A)0004901013
FREIGHTLINER	SPRINTER	2010-2013	3	F01C600232	(A)9064700553	F01C600194	(A)0024706894	0444021024	(A)1644900513
FREIGHTLINER	SPRINTER	2014-2015	3	F01C600228	(A)9064700353	F01C600265	24707794	0444021024	(A)1644900513
MERCEDES	E	2014-2015	2.1	F01C600241	(A)2124710575	F01C600194	(A)0024706894	0444025005	(A)0004901313
MERCEDES	GLK	2013-2015	2.1	F01C600238	(A)2044710575	F01C600194	(A)0024706894	0444021024	(A)1644900513
MERCEDES	ML	2015	2.1	F01C600244	(A)1664710775				
MERCEDES	SPRINTER	2014-2015	2.1	F01C600228	(A)9064700353	F01C600265	24707794	0444021031	(A)0004901013
MERCEDES	E	2011-2013	3	F01C600241	(A)2124710575	F01C600194	(A)0024706894	0444021024	(A)1644900513
MERCEDES	GL	2013-2015	3	F01C600237	(A)1664710875				
MERCEDES	GL	2010-2012	3	F01C600245	(A)1644711275 (A)1664711275				
MERCEDES	ML	2010-2015	3	F01C600244	(A)1664710775				
MERCEDES	R	2010-2013	3	F01C600242	(A)2514710575				
MERCEDES	SPRINTER	2010-2013	3	F01C600232	(A)9064700553				
MERCEDES	SPRINTER	2014-2015	3	F01C600228	(A)9064700353	F01C600265	24707794	0444021024	(A)1644900513
MERCEDES	S	2012-2013	3.5	F01C600240	(A)2214710475	F01C600194	(A)0024706894	0444021024	(A)1644900513
CHEVROLET	CRUZE	2014-2015	2	F01C600339	23377881	F01C600200	22902634	0444021036	12656061
CHEVROLET	EXPRESS G2500	2010-2011	6.6	F01C600309	23379345	F01C600200	22902634	0444021030	12647372
CHEVROLET	EXPRESS G2500	2012-2015	6.6	F01C600338	23379347				
CHEVROLET	EXPRESS G3500	2010-2011	6.6	F01C600309	23379345				
CHEVROLET	EXPRESS G3500	2012-2015	6.6	F01C600338	23379347				
CHEVROLET	EXPRESS G4500	2011	6.6	F01C600309	23379345				
CHEVROLET	EXPRESS G4500	2012-2015	6.6	F01C600338	23379347				
CHEVROLET	SILVERADO	2010-2012	6.6	F01C600307	23379346				
CHEVROLET	SILVERADO	2013-2015	6.6	F01C600297	23379348				
GMC	SAVANA	2010-2011	6.6	F01C600309	23379345				
GMC	SAVANA	2012-2015	6.6	F01C600338	23379347				
GMC	SIERRA	2010-2012	6.6	F01C600307	23379346	F01C600194	561198969	0444021021	3C0131113C
GMC	SIERRA	2013-2015	6.6	F01C600297	23379348				
PORSCHE	CAYENNE	2013-2015	3	F01C600301	95811390102				
VOLKSWAGEN	PASSAT	2012-2014	2	F01C600302	561198970A 561198970B				
VOLKSWAGEN	TOUAREG	2011-2015	3	F01C600301	7P6198970B	F01C600304	7L6198970 7L6198970A 7L6198970B		
VOLKSWAGEN	TOUAREG	2010	3	F01C600304					

¹ Pending release