

Special features for the installation of electric steering systems of the I - III generations for Audi, Seat, Skoda and Volkswagen applications

The electric steering systems comprise three generations of steering gears which can only be installed in a backward compatible manner. This means that a steering gear of Generation III can be installed in all vehicles equipped with Generation I, Generation II or Generation III in the original equipment.

Identifying the steering gear type installed in the vehicle

The following figures can be used to identify the different generations of the steering gear.



Fig. 1: Generation I

Fig. 2: Generation II

Fig. 3: Generation III

Steering system retrofitting

The following steps may be necessary during retrofitting:

1. Assembly of a new wiring harness (**fig. 4**) (depending on vehicle manufacturer and model)
2. Assembly of a carrier (**fig. 5**) (depending on vehicle manufacturer and model)
3. Assembly of a console (**fig. 6**) (depending on vehicle manufacturer and model)

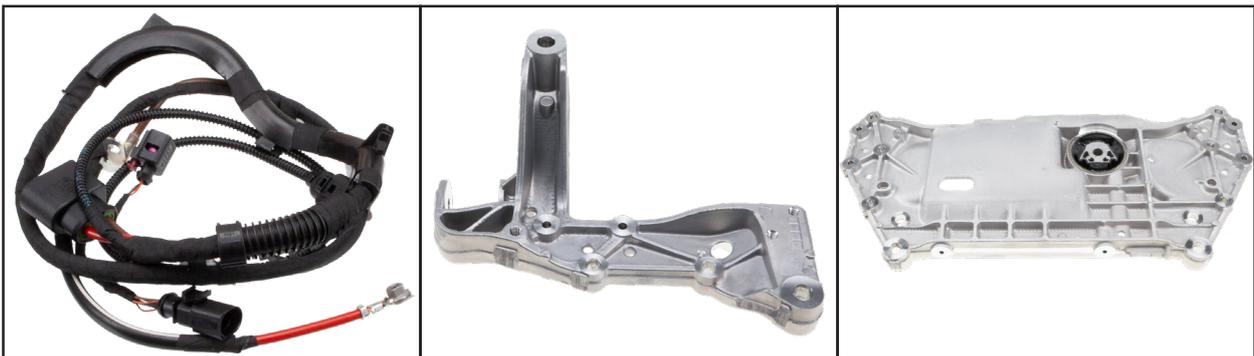


Figure 4: Wiring harness

Figure 5: Carrier

Figure 6: Console

Note: Please note that the vehicle may already have been retrofitted to a newer version during a previous repair!



Please refer to the following tables to determine which parts are required:

Vehicle-specific retrofitting tables

Retrofitting Audi

Model	Original equipment	Year of manufacture	Type	Parts	L.h. drive		R.h. drive	
					JRE101 (Generation II)	JRE102 (Generation III)	JRE7101 (Generation II)	JRE7102 (Generation III)
A3	Generation I	2003-05-01 - 2003-06-30	all	Wiring harness	1K1 971 111 B	1K1 971 111 AJ	1K2 971 111 D	1K2 971 111 AJ
				Console ¹	1K0 199 296 J			
			BAG	1K0 199 313 G				
			BGU	1K0 199 313 N				
	AZV, BKC, BKD, AXW	1K0 199 313 H						
Generation II	2003-07-01 - 2008-07-21	all	Wiring harness	1K1 971 111 B	1K1 971 111 AJ	1K2 971 111 D	1K2 971 111 AJ	

¹ Only required for retrofitting Generation I to Generation II/III

Retrofitting Seat

Model	Original equipment	Year of manufacture	Type	Parts	L.h. drive		R.h. drive	
					JRE101 (Generation II)	JRE102 (Generation III)	JRE7101 (Generation II)	JRE7102 (Generation III)
Altea	Generation II	2004-03-01 - 2010-04-31	all	Wiring harness	---	1K1 971 111 AJ	---	1K2 971 111 AJ
Leon		2005-05-01 - 2009-05-31	not for PR-1N9					
Toledo		2004-04-01 - 2009-05-01	all					

Retrofitting Skoda

Model	Original equipment	Year of manufacture	Type	Parts	L.h. drive		R.h. drive	
					JRE101 (Generation II)	JRE102 (Generation III)	JRE7101 (Generation II)	JRE7102 (Generation III)
Octavia II	Generation II	2004-02-01 - 2009-05-24	all	Wiring harness	---	1K1 971 111 AJ	---	1K2 971 111 AJ
Superb II		2008-03-01 - 2009-05-24						



Retrofitting VW

Model	Original equipment	Year of manufacture	Type	Parts	L.h. drive		R.h. drive			
					JRE101 (Generation II)	JRE102 (Generation III)	JRE7101 (Generation II)	JRE7102 (Generation III)		
Golf V	Generation I	2003-10-01 -	Front wheel drive	Wiring harness	---	1K1 971 111 AJ	---	1K2 971 111 AJ		
		2003-12-31	4Motion							
Touran		2003-02-01 - 2004-01-31	all	Carrier					1K0 199 313 AL	
				Console ¹					1K0 199 296 J	
Golf V	Generation II	2004-01-01 -	Front wheel drive	Wiring harness	---	1K1 971 111 AJ	---	1K2 971 111 AJ		
		2008-06-30	4Motion							
Passat		2005-03-01 - 2008-06-30	all							
										Touran

¹ Only required for retrofitting Generation I to Generation II/III

Procedure when replacing the steering gear

1. Determine which generation of the steering system is installed in the vehicle
2. Disconnect battery
3. Replace steering gear
4. Connect battery
5. Program vehicle-specific special functions with a suitable tester
6. Carry out wheel alignment according to manufacturer's specifications and adjust if necessary
7. Calibrate steering angle sensor

Note: If a steering gear of Generation I or II was replaced by a steering gear of Generation III, the steering angle sensor in the steering gear control system must be set to "1" for the according steering gear type, if necessary.

8. Read out and delete error codes
9. Perform a test drive

