



P80.61-2089-09

**Shown up to 31.5.04**

1	Ignition on/off, start/stop engine request	A2/38	Left door KEYLESS-GO antenna	N103	Interior module KEYLESS-GO control unit
2	Wake-up signal to transmitter key	A2/40	Right door KEYLESS-GO antenna	S2/3	KEYLESS-GO start/stop button
3	Signal for position determination	A8/1	Transmitter key	Z87/15	KEYLESS-GO HF antenna cable end
4	Transmission of position data	N10/2	Rear SAM control unit with fuse and relay module	A	Service brake, status
5	Transmission of validity	N15/5	Electronic selector lever module control unit	B	Doors status
6	Transmission of access authorization	N26/5	Electric steering lock control unit	C	Electronic selector lever module control unit, status
7	Steering lock actuation	N69/8	Left door KEYLESS-GO control unit	D	Error messages output
A1	Instrument cluster	N69/9	Right door KEYLESS-GO control unit	CAN B	Controller Area Network bus, class B (interior compartment) (CAN B)
A2/31	Rear bumper KEYLESS-GO antenna	N73	EIS [EZS] control unit	KG bus	KEYLESS-GO data bus
A2/35	Trunk KEYLESS-GO antenna	N102	Rear module KEYLESS-GO control unit		

**Function**

The engine can be started or switched off by actuating the KEYLESS-GO start/stop button (S2/3) on the selector lever.

**Start engine**

**Function requirements**

- The transmitter key (A8/1) is located in the interior compartment
- Service brake operated
- Doors closed
- Selector lever in position "P" or "N"

**Function sequence**

1. Press KEYLESS-GO start/stop button (S2/3) on selector lever

6. Transmission of access authorization to the EIS control unit (N73) and to the electric steering lock control unit (N26/5).

7. If the checks were positive, circuit 15R and circuit 15 are switched on, if not already switched on, the steering lock unlocked and the engine started.

2. A wake-up signal is transmitted to the transmitter key via the KEYLESS go antennas (A2/31, A2/35, A2/38, A2/40) and the interior module KEYLESS-GO control unit (N103) A8/1

3. Location finding signals are transmitted via the KEYLESS-GO antennas (A2/31, A2/35, A2/38, A2/40) and the interior module KEYLESS-GO control unit (N103).

**i** On vehicles as of 1.6.04, the antenna integrated into the interior module KEYLESS-GO control unit (N103) is replaced by the separate interior KEYLESS-GO antenna.

4. The position data, the validity and the access authorization are transmitted via the KEYLESS-GO HF antenna cable end (Z87/15) to the rear module KEYLESS-GO control unit (N102).

**i** Error messages occurring are displayed in the instrument cluster (A1).

Additional circuit switching operations are given in the table below.

**Warning messages**

**i** Error messages occurring are displayed in the instrument cluster (A1).

**Switch off engine**

**Function requirement**

- Selector lever in position "P" or "N"

**Function sequence**

Actuate Keyless-Go start/stop button (S2/3) on selector lever.  
Engine is switched off and circuit 15 R remains on.

Vehicles as of 1.6.07

These warning messages are maintained until the driver switches off the engine (no automatic engine switch-off).

If, after starting the engine, the transmitter key (A8/1) can no longer be located in the interior compartment (system error or transmitter key (A8/1) not present), the instrument cluster (A1) outputs a warning message for approx. 5 s.  
This is repeated every 5 km. After traveling > 20 km, a continuous warning message is output and an intermittent gong sounds.

Vehicles up to 31.5.07:

Next time the vehicle stops (v = 0 km/h) the engine is automatically switched on.

**i** In this case, it is not possible to start the engine on either version.

Actuation of KEYLESS-GO start/stop button (S2/3) (Initial state: circuit 15R, circuit 15 and engine are Off)	Status after actuating KEYLESS-GO start/stop button (S2/3)	Status after actuating KEYLESS-GO start/stop button (S2/3) Preconditions: ● Driver open opened after actuation ● Service brake not applied during actuation	Status after actuating KEYLESS-GO start/stop button (S2/3) Preconditions: ● Driver door remains closed after actuation ● Service brake not actuated during actuation
1st actuation	Circuit 15 On, engine is started Preconditions: ● Foot brake actuated ● Selector lever in position P or N	Circuit 15R On	Circuit 15R On
2nd actuation	Circuit 15R On, engine is switched off Preconditions: ● Doors closed ● Selector lever in position P or N	Circuit 15 On	Circuit 15 On
3rd actuation	Circuit 15 On, engine is started  Preconditions: ● Service brake operated ● Selector lever in position P or N	Circuit 15 Off Circuit 15R Off Circuit 15C Off	Circuit 15 Off Circuit 15R Off Circuit 15C On

	Transmitter key, task/design/function		GF80.57-P-4101T
	Keyless-Go control unit, location/task	Left door Keyless-Go control unit Right door Keyless-Go control unit Rear module Keyless-Go control unit	GF80.61-P-4105Q GF80.61-P-4105QA GF80.61-P-4105QB
	Electronic ignition switch control unit, location/task		GF80.57-P-4120Q