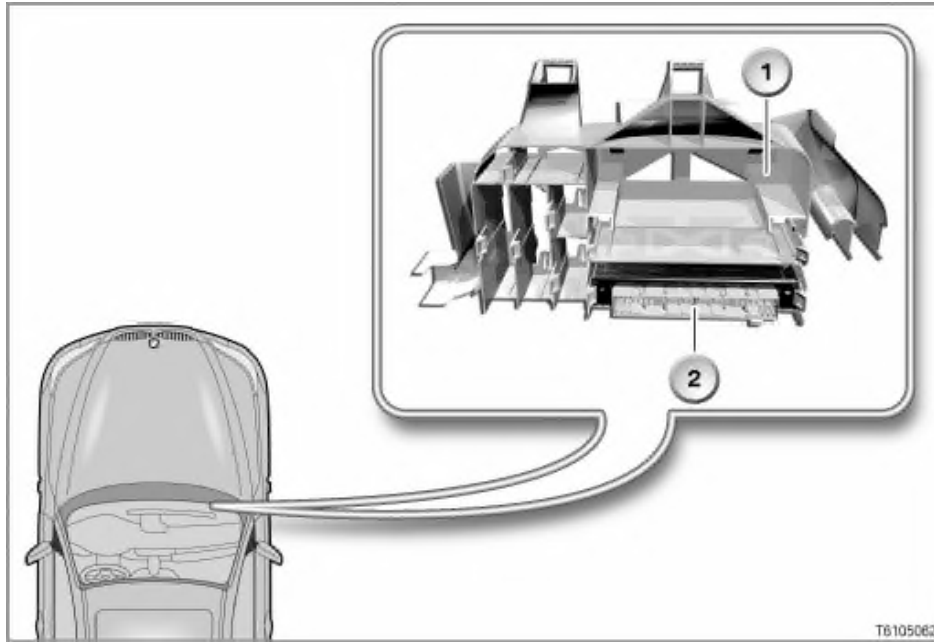


Installation location

The body gateway module (KGM) is integrated with the other control units in the rack behind the glove compartment.

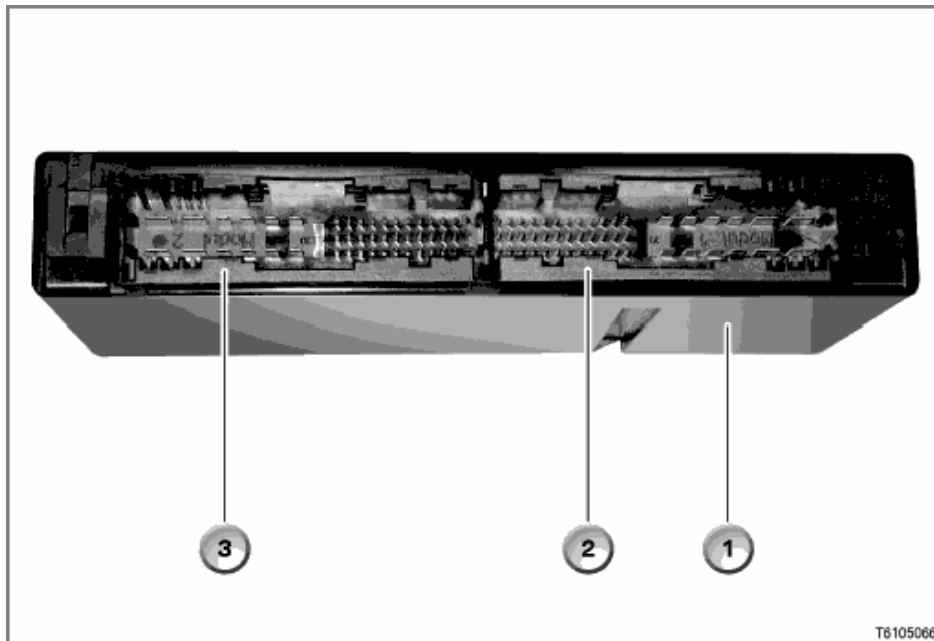


T6105062

Key	Explanation	Key	Explanation
1	Device holder	2	Body gateway module (KGM)

Construction

The body gateway module (KGM) is connected to the wiring harness by 2 connectors.



T6105066

Key	Explanation	Key	Explanation
1	Body gateway module (KGM)	2	Connector 1 (51-pin)
3	Connector 2 (51-pin)	4	

- Pin assignment

Pin assignment for connector X16759, 51-pin		
Pin	Type	Description
1	A	Positive wire to front distribution box (terminal 30g-f on distribution box)
2	E	Positive wire from front distribution box (terminal 30 on distribution box)
3	---	---
4	---	---
5	---	---
6	---	---
7	---	---
8	---	---
9	---	---
10	A	Positive wire to access light (front) in driver's door
11	A	Low signal for servotronic
12	A	High signal for servotronic
13	---	---
14	A	Power supply for Hall sensors (power windows) in driver's door
15	E	Signal for unlocking lock cylinder (Hall sensor) in driver's door
16	---	---
17	E	Signal 1 from Hall sensor (power windows) in driver's door
18	E/A	Diagnosis wire
19	A	Actuation of central locking drive for unlocking driver's door
20	---	---
21	A	Power supply for exterior mirror adjustment and mirror heating on driver's side (basic equipment specification)
22	---	---
23	E/A	LIN bus signals to exterior mirror on driver's side (exterior mirrors with extended functions)
24	---	---
25	---	---
26	---	---
27	---	---
28	E	Signal for locking lock cylinder (Hall sensor) in driver's door
29	E	Signal from Hall sensor (door contact) in driver's door
30	E	Signal 2 from Hall sensor (power windows) in driver's door

31	---	---
32	A	Actuation of central locking drive for locking driver's door
33	E	Power supply (terminal 30) for consumers on driver's side
34	A	Earth connection for power window motor in driver's door
35	A	Positive wire for power window motor in driver's door
36	A	Negative wire for power window motor in driver's door
37	---	---
38	---	---
39	---	---
40	A	Horizontal exterior mirror adjustment for driver's side (basic equipment specification)
41	A	Vertical exterior mirror adjustment for driver's side (basic equipment specification)
42	A	Power supply to mirror heating for driver's side (basic equipment specification)
43	---	---
44	E	Signal wire from electrochromic interior mirror
45	A	Earth connection for electrochromic interior mirror
46	---	---
47	---	---
48	A	Earth connection for Hall sensors (central locking) in driver's door
49	A	Earth connection for Hall sensors (power windows) in driver's door
50	---	---
51	A	Actuation of central locking drive for centrally locking driver's door
	A = Output E = Input E/A = Input and output For current specifications regarding pin assignment, please refer to BMW diagnosis system	

Pin assignment for connector X16760, 51-pin

Pin	Type	Description
1	---	---
2	---	---
3	A	Positive wire for power window motor in front-passenger door
4	A	Negative wire for power window motor in front-passenger door
5	---	---
6	---	---
7	---	---
8	E/A	K-CAN Low
9	E/A	K-CAN High

10	---	---
11	A	Earth connection for Hall sensors (power windows) in front-passenger door
12	---	---
13	---	---
14	E/A	LIN bus signals to exterior mirror on front-passenger side (exterior mirrors with extended functions)
15	---	---
16	---	---
17	---	---
18	---	---
19	A	Actuation of central locking drive for centrally locking front-passenger door
20	---	---
21	---	---
22	E	CLOSE signal from power window switch on front-passenger side
23	A	Earth connection for Hall sensors (central locking) in front-passenger door
24	E	Signal 2 from Hall sensor (power windows) in front-passenger door
25	A	Power supply to mirror heating for front-passenger side (basic equipment specification)
26	---	---
27	E	PT-CAN wake-up wire
28	---	---
29	E/A	PT-CAN High
30	E/A	PT-CAN Low
31	---	---
32	A	Actuation of central locking drive for centrally unlocking front-passenger door
33	E	Power supply (terminal 30) for consumers on front-passenger side
34	A	Earth connection for power window motor in front-passenger door
35	---	---
36	---	---
37	M	Earth for KGM (terminal 31)
38	V	Supply voltage for SZL (terminal 30)
39	---	---
40	---	---
41	E	OPEN signal from power window switch on front-passenger side
42	E	Signal from Hall sensor (door contact) in front-passenger door
43	E	Signal 1 from Hall sensor (power windows) in front-passenger door

44	---	---
45	A	Power supply for exterior mirror adjustment and mirror heating on passenger side (basic equipment specification)
46	A	Horizontal exterior mirror adjustment on passenger side (basic equipment specification)
47	A	Vertical exterior mirror adjustment on passenger side (basic equipment specification)
48	A	Positive wire to access light (front) in front-passenger door
49	---	---
50	A	Power supply for Hall sensors (power windows) in front-passenger door
51	A	Actuation of central locking drive for locking driver's door
A = Output E = Input E/A = Input and output M = Earth V = Power supply For current specifications regarding pin assignment, please refer to BMW diagnosis system		

How it works

The body gateway module (KGM) is the central gateway for the bus system.

The body gateway module controls the following functions:

- Central locking, front
- Power windows, front
- Exterior mirrors
- Access lights, front
- Micro-power module
- Servotronic (if option 217 "Active Steering" not fitted)