

Note: Basic seat equals sports seat

The electrical seat functions are identical on the basic seat and sports seat. The only differences are between the E63 and E64 as well as between the driver's seat and passenger's seat.

This system overview comprises the following overviews:

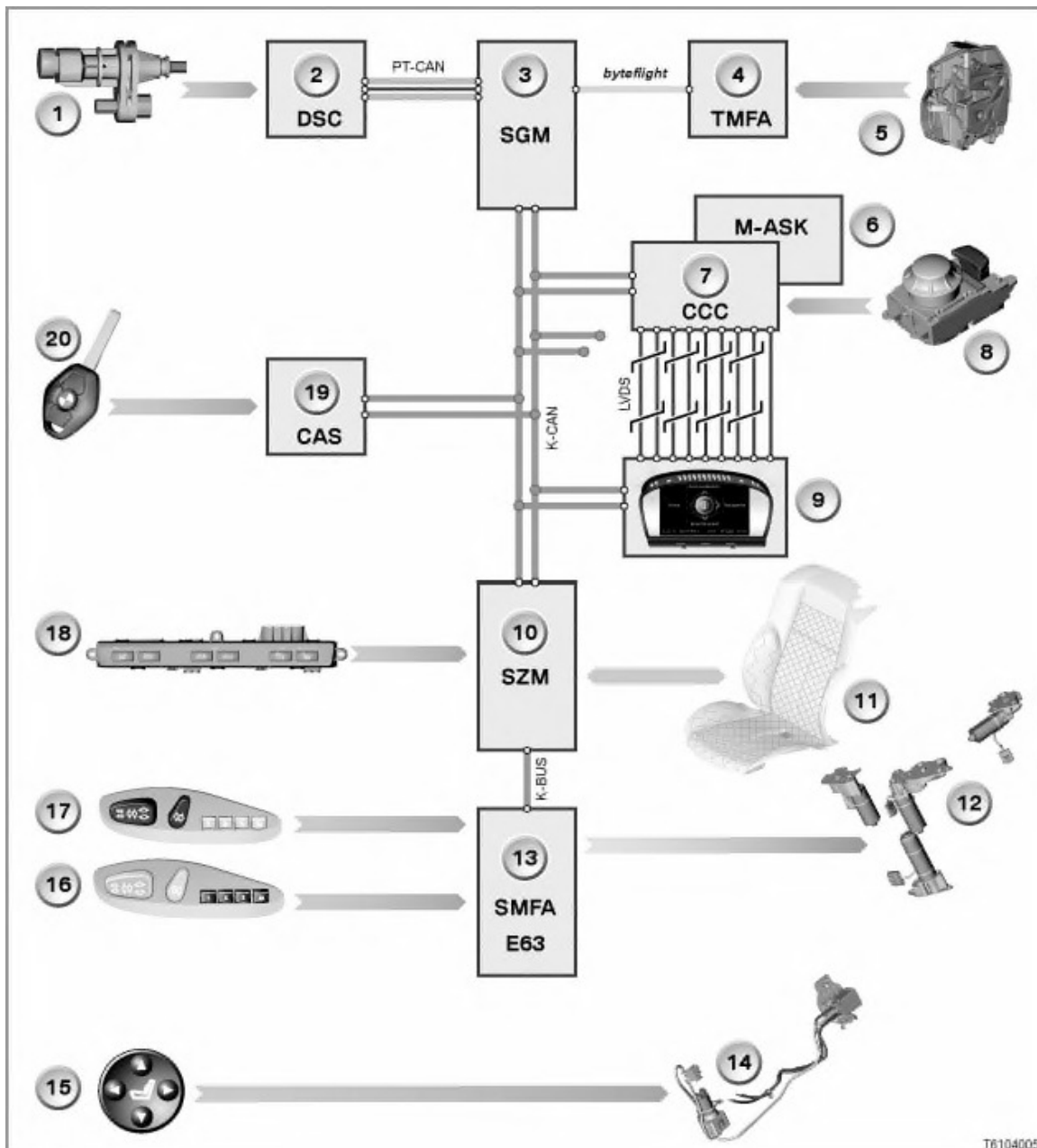
**E63**

- Input/output E63 driver's side
- Input/output E63 passenger's side
- E63 System circuit diagram
- E63 Overview of control units

**E64**

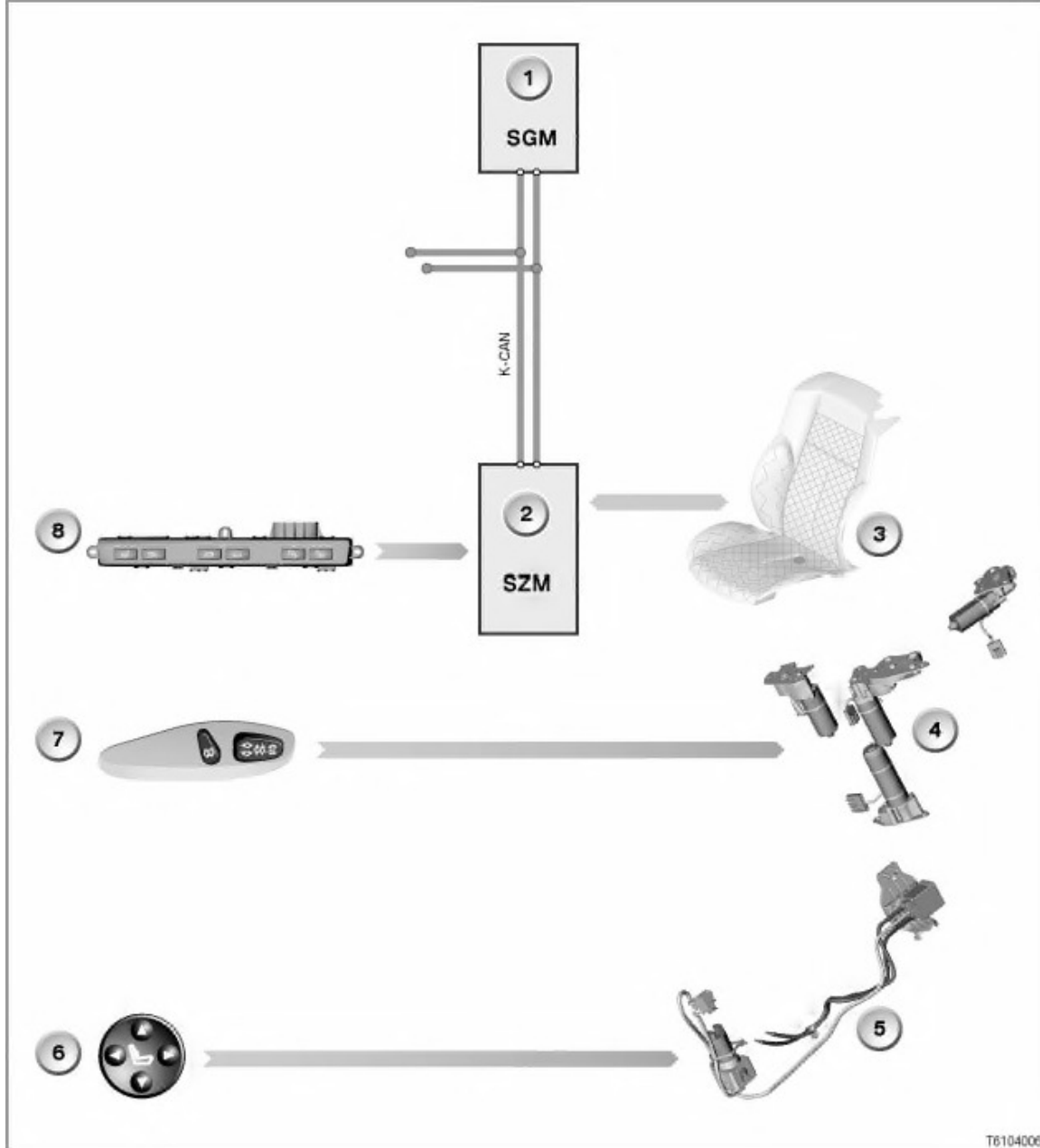
- Input/output E64 driver's side
- Input/output E64 passenger's side
- E64 System circuit diagram
- E64 Overview of control units

**- Input/output E63 driver's side**



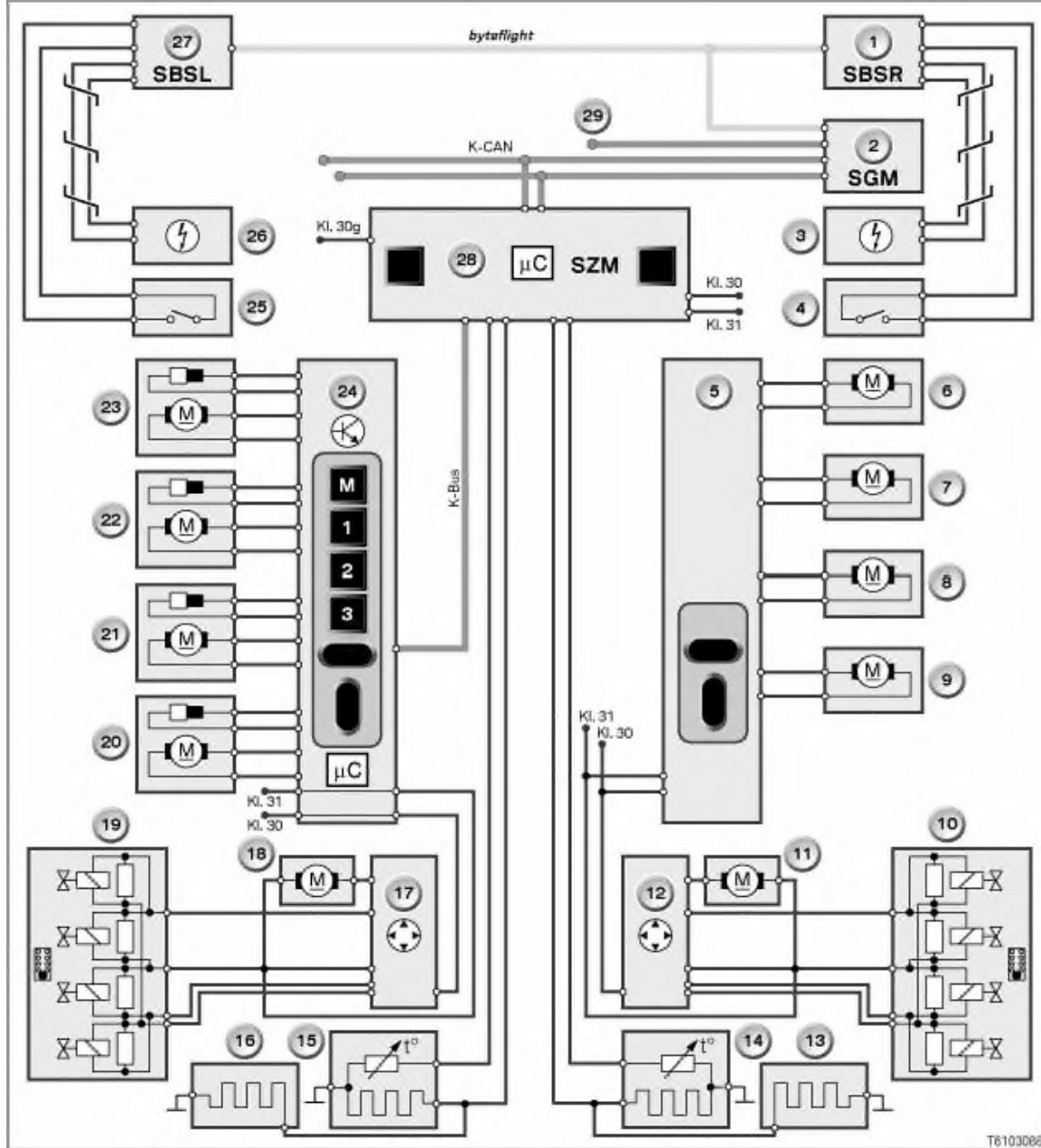
Item	Description	Item	Description
1	Speed signal from wheel speed sensors	2	Dynamic stability control (DSC)
3	Safety and gateway module (SGM)	4	Driver's door module (TMFA)
5	Door lock with door contact	6	Multi-audio system controller (M-ASK)
7	Car communication computer (CCC)	8	Controller for central information display
9	Central Information display (CID)	10	Centre console switch cluster
11	Seat heating mats with temperature sensor	12	Drive units for seat forward/backward adjustment, seat cushion tilt adjustment, seat height adjustment, backrest angle adjustment
13	Driver's seat module (SMFA)	14	Air pump and control valve for lumbar support
15	Lumbar support button	16	Seat memory switch
17	Seat adjustment buttons	18	Seat heating switch, driver's and passenger's side
19	Car access system (CAS)	20	Remote control key with transponder
K-Bus	Body bus	K-CAN	Body controller area network
PT-CAN	Powertrain controller area network	<b>byteflight</b>	Fibre optics

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**Input/output E63 passenger's side**



Item	Description	Item	Description
1	Safety and gateway module (SGM)	2	Centre-console switch cluster (SZM)
3	Seat heating mats with temperature sensor	4	Drive units for seat forward/backward adjustment, seat cushion tilt adjustment, seat height adjustment, backrest angle adjustment
5	Air pump and control valve for lumbar support	6	Lumbar support button
7	Seat adjustment button (direct load circuit)	8	Seat heating switch, driver's and passenger's side
K-CAN	Body controller area network		

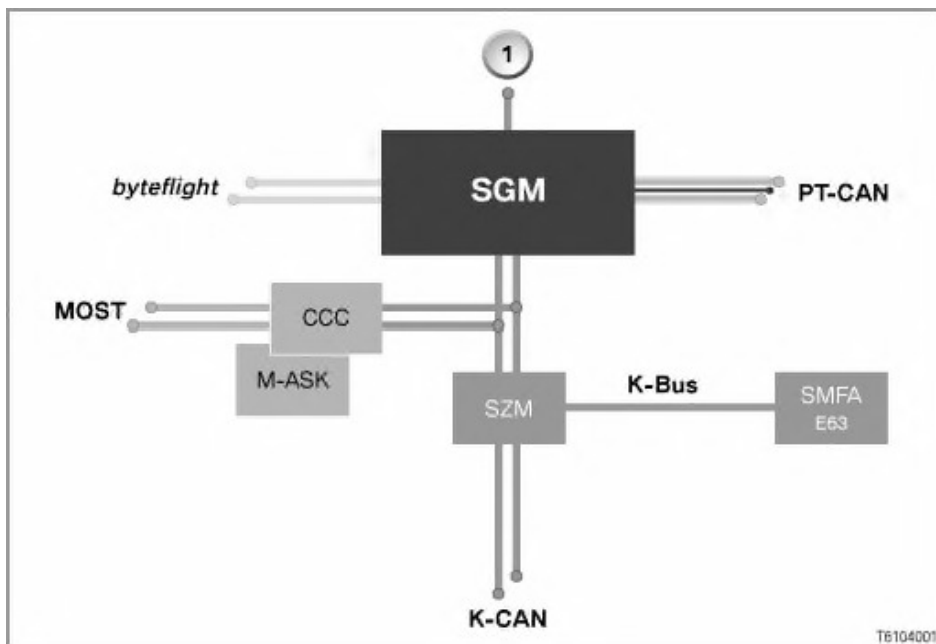
### E63 System circuit diagram



Item	Description	Item	Description
1	B-pillar satellite, right (SBSR)	2	Safety and gateway module (SGM)
3	Seat belt pretensioner, passenger's seat	4	Seat belt buckle contact, passenger's seat
5	Seat adjustment buttons, passenger's seat	6	Drive unit for passenger's seat forward/backward adjustment
7	Drive unit for passenger's seat height adjustment	8	Drive unit for passenger's seat cushion tilt adjustment
9	Drive unit for passenger's seat backrest angle adjustment	10	Lumbar support cushion, passenger's seat
11	Lumbar support drive unit, passenger's seat	12	Lumbar support button, passenger's seat
13	Passenger's seat heating (backrest incl. side sections)	14	Passenger's seat heating with temperature sensor
15	Driver's seat heating with temperature sensor	16	Driver's seat heating (backrest incl. side sections)
17	Lumbar support button, driver's seat	18	Lumbar support drive unit, driver's seat
19	Lumbar support cushion, driver's seat	20	

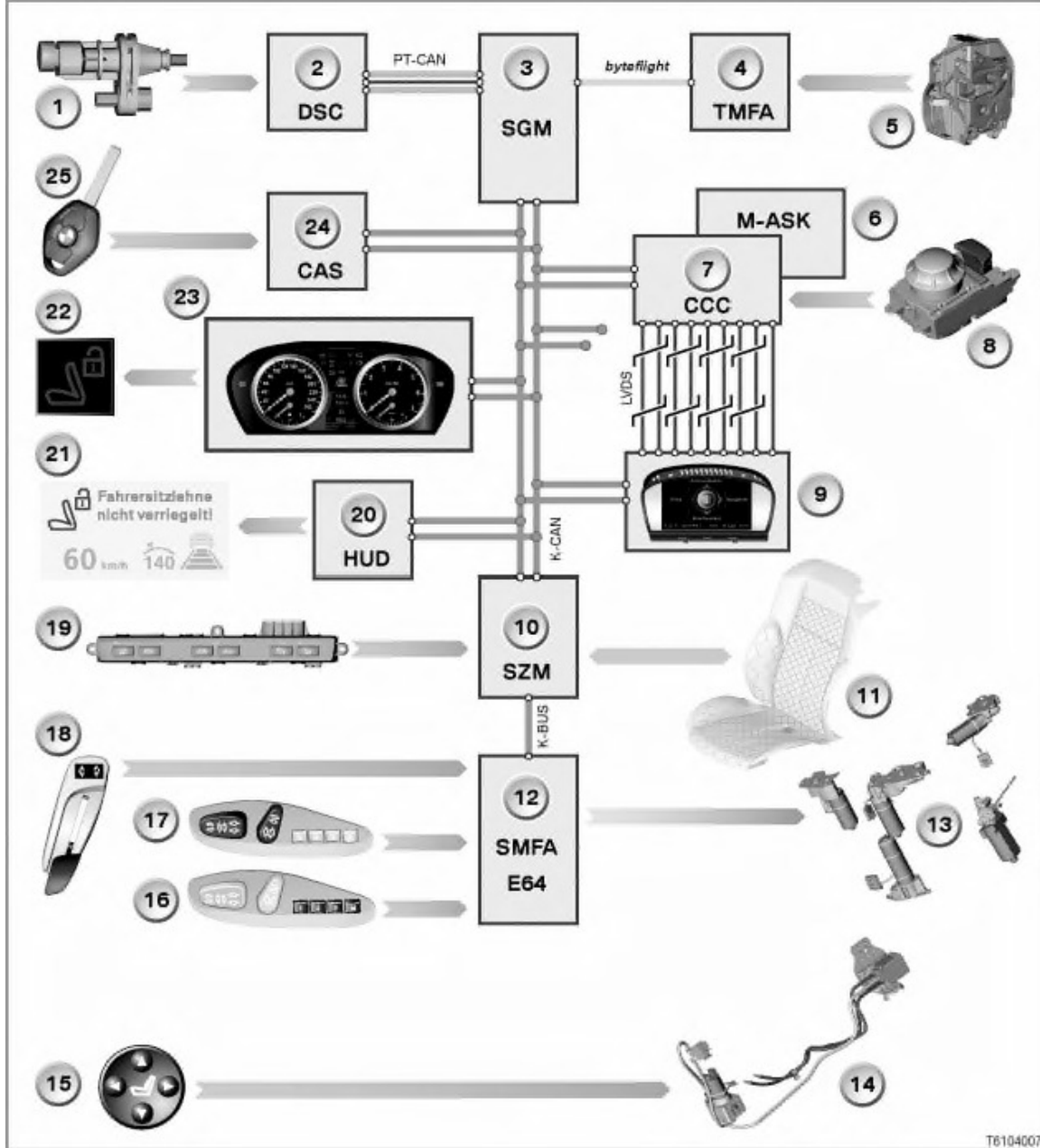
			Drive unit for driver's seat backrest angle adjustment
21	Drive unit for driver's seat cushion tilt adjustment	22	Drive unit for driver's seat height adjustment
23	Drive unit for driver's seat forward/backward adjustment	24	Driver seat memory (driver's seat control unit)
25	Seat belt buckle contact, driver's seat	26	Driver's seat belt pretensioner
27	B-pillar satellite, left (SBSL)	28	Centre-console switch cluster (SZM)
<b>byteflight</b>	Fibre optics	29	Diagnostic wire
K-CAN	Body controller area network	K-Bus	Body bus
Kl. 30g	Terminal 30g (terminal 30 switched by car access system CAS)	Kl. 30	Terminal 30 (battery positive)
Kl. 31	Terminal 31 (earth)		

### E63 Overview of control units



Item	Description	Item	Description
1	Diagnostic wire	<b>byteflight</b>	Fibre optics
CCC	Car Communication Computer	SGM	Safety and gateway module
K-Bus	Body bus	K-CAN	Body controller area network
M-ASK	Multi-audio system controller	MOST	Media-Oriented System Transport
PT-CAN	Powertrain controller area network	SMFA	Seat module, driver
SZM	Centre console switch cluster		

### Input/output E64 driver's side



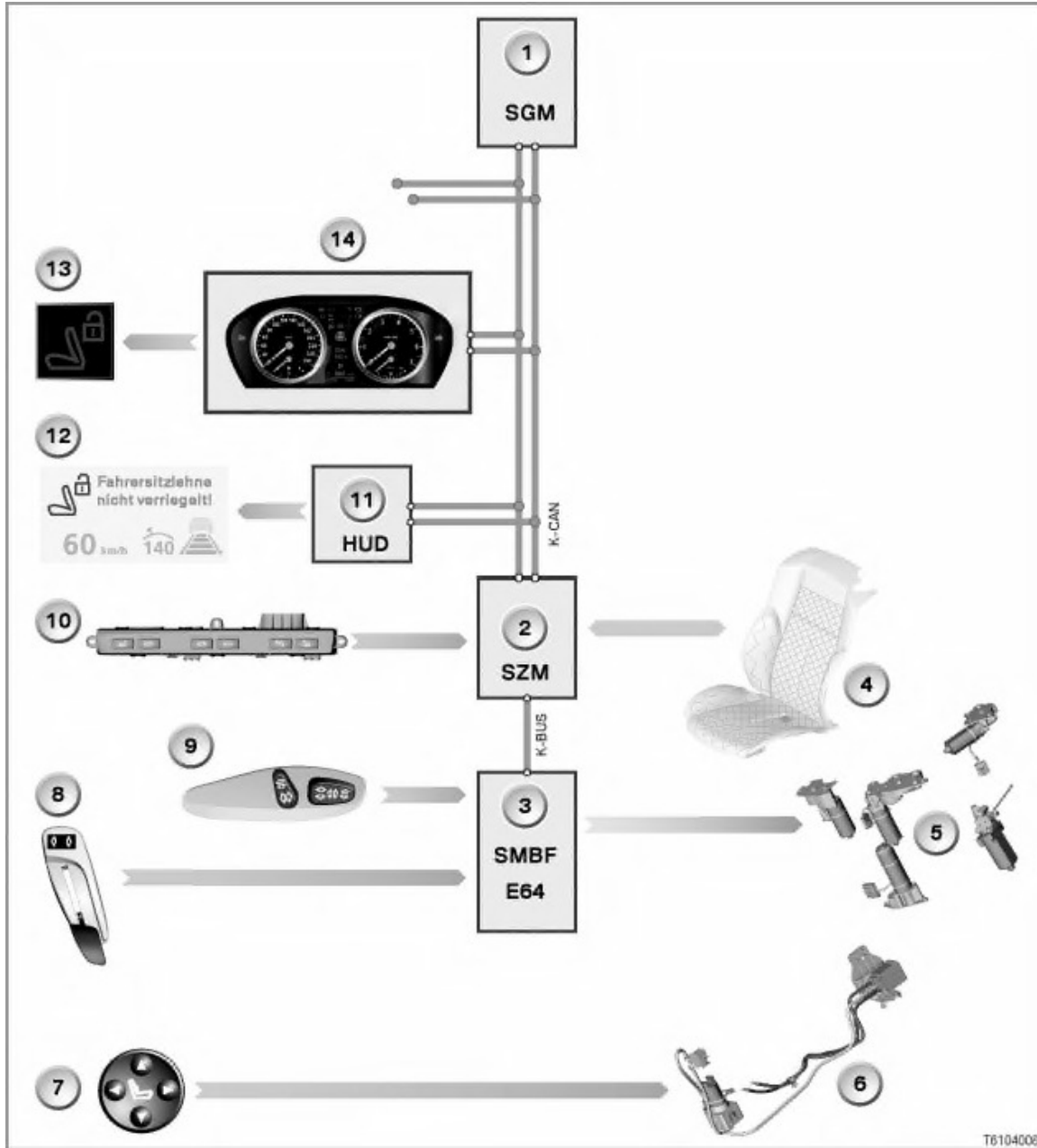
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Item	Description	Item	Description
1	Speed signal from wheel speed sensors	2	Dynamic Stability Control (DSC)
3	Safety and gateway module (SGM)	4	Door module, driver's side (TMFA)
5	Door lock with door contact	6	Multi-audio system controller (M-ASK)
7	Car Communication Computer (CCC)	8	Controller for central information display
9	Central Information Display (CID)	10	Centre-console switch cluster (SZM)
11	Seat heating mats with temperature sensor	12	Driver's seat module (SMFA)
13	Drive unit for seat forward/backward adjustment, seat cushion tilt adjustment, seat height adjustment, backrest angle adjustment, head restraint height adjustment	14	Air pump and control valve for lumbar support
15	Lumbar support button	16	Seat memory switch
17	Seat adjustment button	18	Button for rear easy-entry

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	Seat heating switch, driver's and passenger's side	20	Head-up display (HUD)
21	Check control messages on head-up display	22	Check control message in instrument cluster
23	Instrument cluster	24	Car access system (CAS)
25	Vehicle key with transponder		

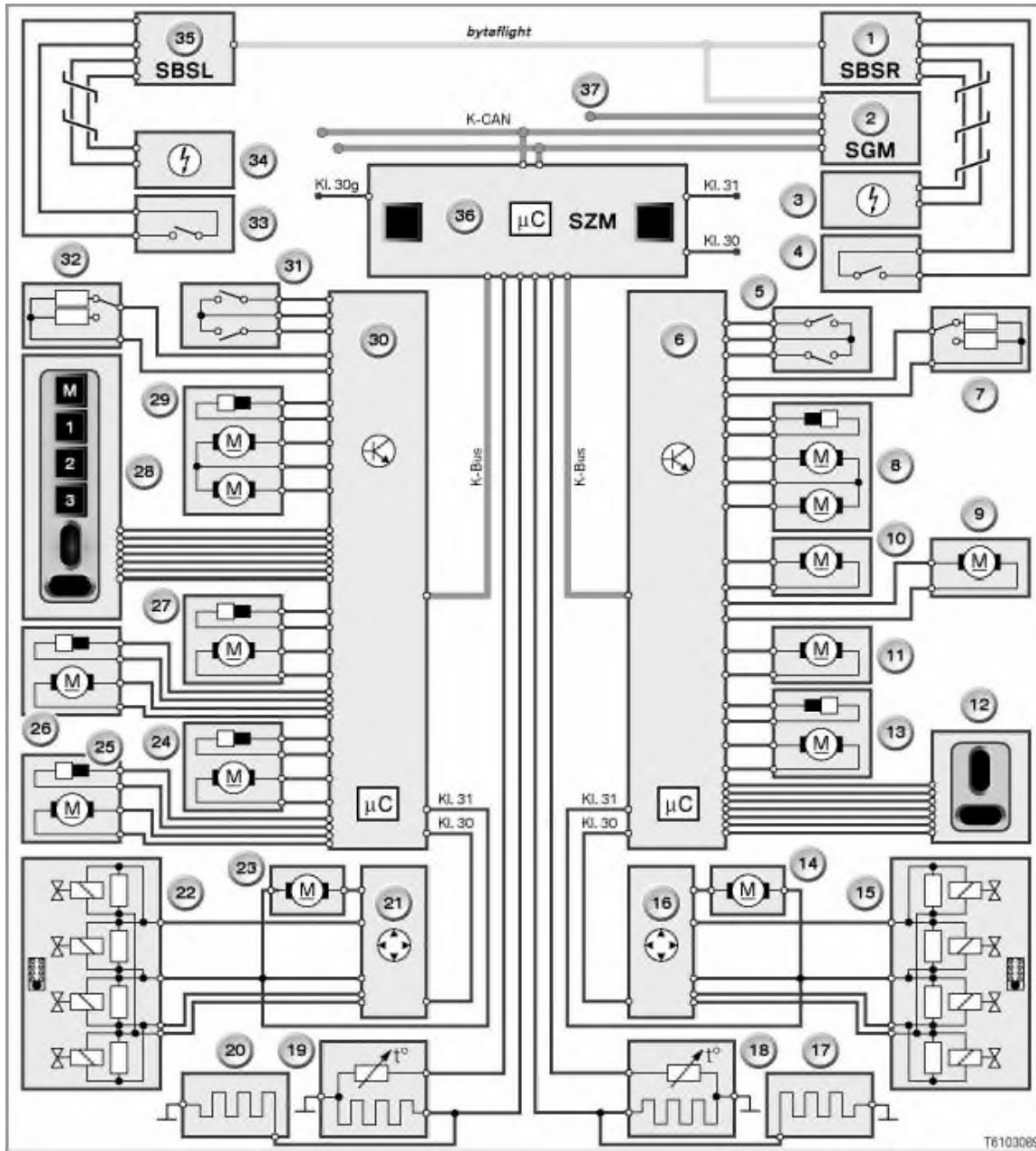
**Input/output E64 passenger's side**



Item	Description	Item	Description
1	Safety and gateway module	2	Centre console switch cluster (SZM)
3	Passenger's seat module (SMBF)	4	Seat heating mat with temperature sensor
5	Drive units for seat forward/backward adjustment, seat cushion tilt adjustment, seat height adjustment, backrest angle adjustment, head restraint height adjustment	6	Air pump and control valve for lumbar support
7	Lumbar support button	8	Button for rear easy-entry

			Seat heating switch, driver's and passenger's side
11	Head-up display (HUD)	12	Check control messages on head-up display
14	Instrument cluster	13	Check control message in instrument cluster
K-Bus	Body bus	K-CAN	Body controller area network

### E64 System circuit diagram

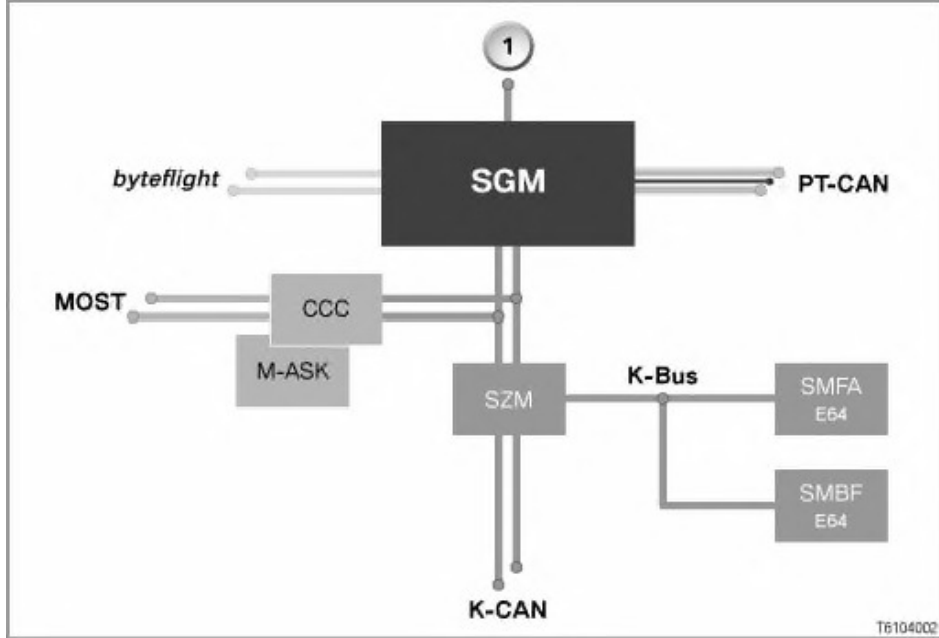


Item	Description	Item	Description
1	B-pillar satellite, right (SBSR)	2	Safety and gateway module (SGM)
3	Seat belt pretensioner, passenger's seat	4	Seat belt buckle contact, passenger's seat
5	Switch for rear easy-entry, passenger's seat (in backrest: seat forward/backward adjustment)	6	Passenger's seat memory (control unit)
7	Backrest lock switch for passenger's seat	8	Drive unit for seat forward/backward adjustment and passenger's seat rear easy-entry



	Drive unit for passenger's seat height adjustment	10	Drive unit for passenger's seat cushion tilt adjustment
11	Drive unit for passenger's seat backrest angle adjustment	12	Seat adjustment buttons, passenger's seat
13	Drive unit for passenger's seat head restraint height adjustment	14	Lumbar support drive unit, passenger's seat
15	Lumbar support cushion, passenger's seat	16	Lumbar support button, passenger's seat
17	Passenger's seat heating (backrest incl. side sections)	18	Passenger's seat heating with temperature sensor
19	Driver's seat heating with temperature sensor	20	Driver's seat heating (backrest incl. side sections)
21	Lumbar support button, driver's seat	22	Lumbar support cushion, driver's seat
23	Lumbar support drive unit, driver's seat	24	Drive unit for driver's seat backrest angle adjustment
25	Drive unit for driver's seat cushion tilt adjustment	26	Drive unit for driver's head restraint height adjustment
27	Drive unit for driver's seat height adjustment	28	Switch for seat memory and seat adjustment
29	Drive unit for seat forward/backward adjustment and driver's seat rear easy-entry	30	Driver's seat memory (control unit)
31	Switch for rear easy-entry, driver's seat (in backrest: seat forward/backward adjustment)	32	Backrest lock switch for driver's seat
33	Seat belt buckle contact, driver's seat	34	Driver's seat belt pretensioner
35	B-pillar satellite, left (SBSL)	36	Centre-console switch cluster (SZM)
37	Diagnostic wire	<b>byteflight</b>	Fibre optics
		K-CAN	Body controller area network
K-Bus	Body bus	Kl. 30g	Terminal 30g (terminal 30 switched by car access system CAS)
Terminal 30	Terminal 30 (battery positive)	Kl. 31	Terminal 31 (earth)

**- E64 Overview of control units**



Item	Description	Item	Description
1	Diagnostic wire	<b>byteflight</b>	Fibre optics
CCC	Car Communication Computer	SGM	Safety and gateway module
K-Bus	Body bus	K-CAN	Body controller area network
M-ASK	Multi-audio system controller	MOST	Media-Oriented System Transport
PT-CAN	Powertrain controller area network	SMFA	Seat module, driver
SZM	Centre console switch cluster	SMBF	Seat module, front-passenger