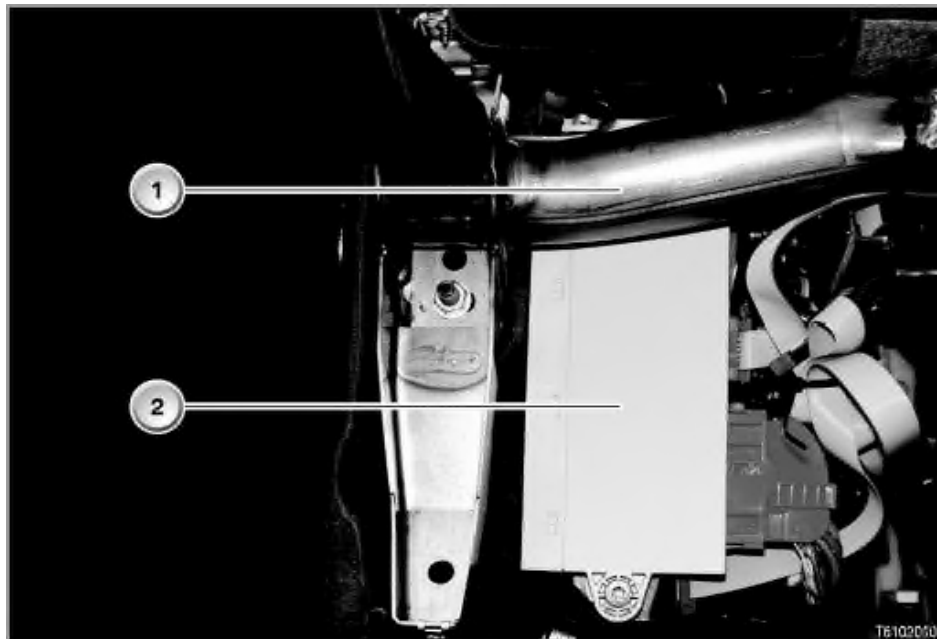


Installation location

The CAS control unit is located behind the instrument panel in the area of the left-hand A-pillar.

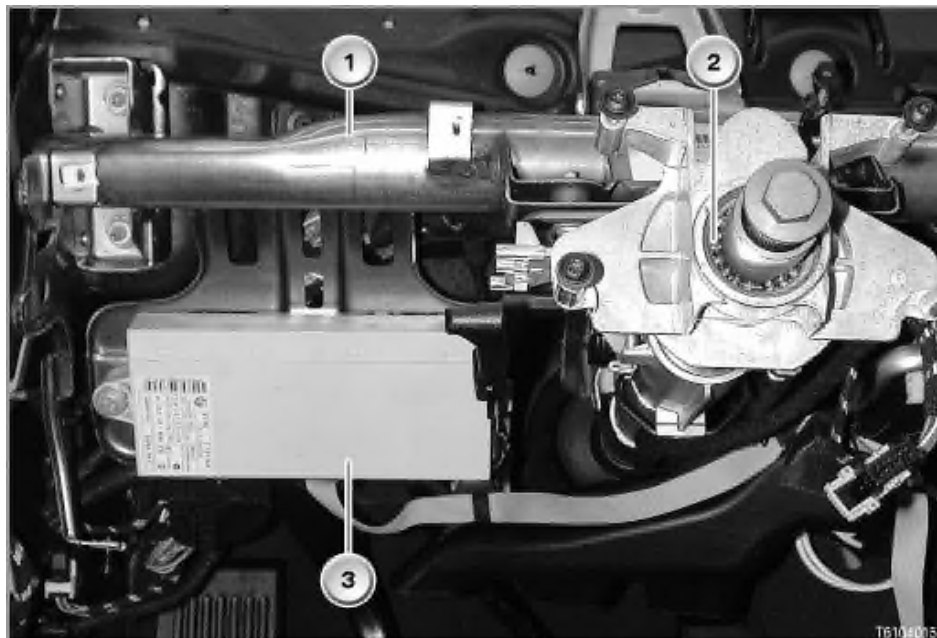
> E60, E61, E63, E64



The illustration shows the CAS control unit on the E60.

Item	Description	Item	Description
1	Tubular member for the instrument panel	2	CAS control unit

> E70, E81, E87, E90, E91, E92, E93



The illustration shows the CAS control unit on the E87.

Item	Description	Item	Description
1	Tubular member for the instrument panel	2	Steering column
3	CAS control unit		

Construction

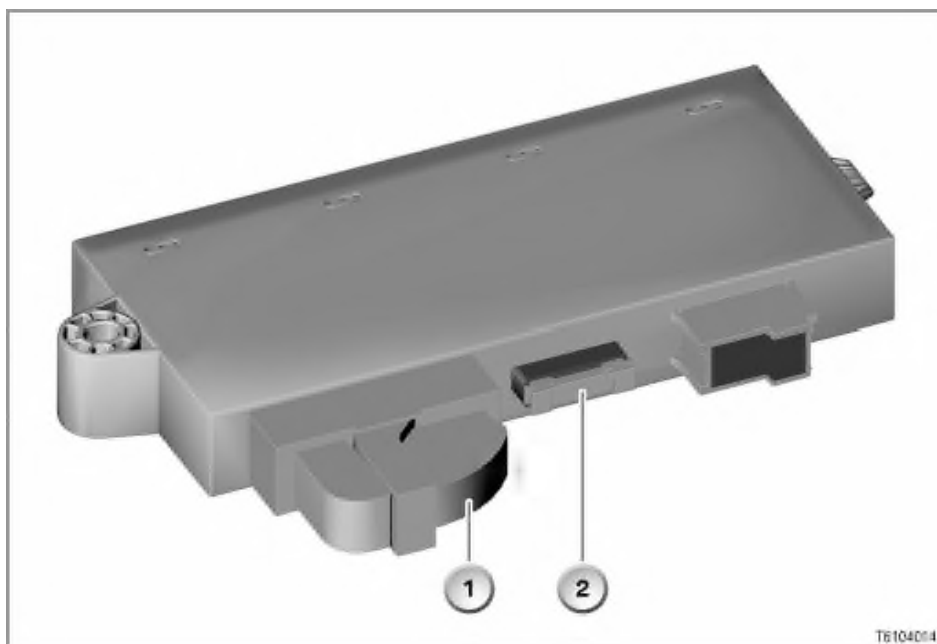
A 41-pin connector on the CAS control unit creates the connection to the vehicle electrical system.

> E60, E61, E63, E64 until 09/2005

The ignition starter switch is directly connected to the CAS control unit by a 14-pin connector.

> E70, E81, E87, E90, E91, E92, E93 from start of series production and E60, E61, E63, E64 from 09/2005

The slot is connected to the CAS control unit via a 14-pin connection. The START/STOP button is connected to the slot via a 10-pin plug connection. 10 contacts on the ribbon cable are looped through to the START/STOP button via the slot.



Item	Description	Item	Description
1	41-pin connector	2	14-pin connector

- Pin assignments

> E60, E61, E63, E64: Pin assignment for connector X10318, 41-pin

> E70, E81, E87, E90, E91, E92, E93: Pin assignment for connector X13376, 41-pin

Pin	Type	Description
1	A	Signal to terminal 30g (active) relay
2	A	Terminal R to the brake light switch
3	A	Terminal R to clutch switch > E70 Seat-occupancy detector, driver's side
4	A	Terminal R to the seat-occupancy detector, front-passenger side
5	A	

		Terminal R to MRS control unit (E81, E87, E90, E91, E92) or to crash safety module (E60, E61, E63, E64 from 09/2005 and E70, E93)
6	A	Signal from terminal 50L_RS, e.g. to SMG (only E60, E61, E63, E64) or with automatic engine start/stop system
7	A	Terminal 15 signal output (engine-dependent) to: Injection valve relay; terminal 15 overload-protection relay; hot-film air-mass sensor with DDE, ignition current feedback
8	A	Terminal 15 signal output to: Relay for terminal 15
9	A	Terminal 15 signal output to: Steering column switch cluster (SZL) for E60, E61, E63, E64 until 09/2005; Fuel preheating for DDE
10	A	Terminal 15 signal output: Convertible soft top module (CVM) for E64 or convertible top module (CTM) for E93; Electrically operated trailer coupling
11	E	Selector lever lock signal input
12	M	Earth for CAS (electronics)
13	A	Terminal 15 signal output to: Diagnosis socket
14	A	Terminal 15 signal output to: Light module (LM) for E60, E61, E63, E64 Footwell module (FRM) for E70, E81, E87, E90, E91, E92, E93
15	---	---
16	---	---
17	---	---
18	A	Wake-up wire for Active Cruise Control (ACC)
19	A	Terminal 15 wake-up wire for PT-CAN
20	A	EWS signal to DME or DDE (only with 3rd generation EWS), depending on engine version - not with K-bus for 4th generation EWS
21	V	CAS power supply (load)
22	A	Control of starter motor
23	A	Voltage for electronic steering lock
24	A	Earth for electronic steering lock
25	M	Earth for CAS (load)
26	E/A	K-CAN Low
27	---	---
28	E	Signal to indicate end or beginning of starting procedure from DME or DDE
29	E	Central locking button (unlock/lock central locking)
30	E/A	K-bus for CA (Comfort Access) and electric steering lock and 4th generation EWS
31	E	Speed signal from the DSC
32	E	Signal from brake light switch

34	V	CAS power supply
35	E/A	K-CAN High
36	---	---
37	E	Trigger signal from the telephone control unit for waking up the MOST
38	E	Front lid contact switch
39	E	Interior tailgate button in driver's footwell (depending on national version)
40	E	Tailgate lock cylinder ("hotel" position)
41	E	P/N selector lever position from SMG or EGS; clutch switch for starter inhibitor on US vehicles with manual transmission
A = Output E = Input E/A = Input and output M = Earth V = Supply For current specifications regarding pin assignments, please refer to BMW diagnosis system		

> **E60, E61, E63, E64: Pin assignment for connector X14027, 14-pin**

> **E70, E81, E87, E90, E91, E92, E93: Pin assignment for connector X10318, 14-pin**

Pin	Type	Description
1	A	Transponder aerial 2**
2	A	Transponder aerial 1**
3	A	LED* earth connection
4	A	START/STOP button illumination*
5	A	Power supply for Hall sensors 1 and 2*
6	E	Hall 1 input (START/STOP button)*
7	E	Hall 2 input (remote control unlocked)*
8	E	Hall 3 input (START/STOP button)*
9	E	Hall 4 input (remote control locked)*
10	A	Power supply for Hall sensors 3 and 4*
11	A	Terminal 31 (earth connection for Hall sensors 3 and 4*)
12	A	Terminal 31 (earth connection for Hall sensors 1 and 2*)
13	A	Negative-side (driver) for bistable magnet**
14	A	Positive-side (driver) for bistable magnet**
A = Output E = Input M = Earth V = Supply * = Connected to slot and START/STOP button ** = Only connected to slot For current specifications regarding pin assignments, please refer to BMW diagnosis system		