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Fuses and relays BMW 5 Series (E60/E61, 2003 - 2010)

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The BMW E60 is the body of the "*fifth*" series, which was produced from 2003 to 2010. The predecessor of this body was the E39 modification. In 2007, the model went through restyling. In this material, we will analyze in detail the fuse diagrams of the BMW 5 series ([520d](#), [520i](#), [523i](#), [525d](#), [525i](#), [530d](#), [530i](#), [535d](#), [540i](#), [545i](#), [550i](#), [M5](#)) 5th generation: e60 ([sedan](#)) and e61 ([station wagon](#)) - 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010 of release.



Here you will find the locations and photos of the mounting blocks. Separately, we note the fuses responsible for the cigarette lighter and fuel pump.

In the trunk

Sedan:**Sports Wagon**

The mounting block is located under the casing on the right. You need to remove the plastic cover to gain access.



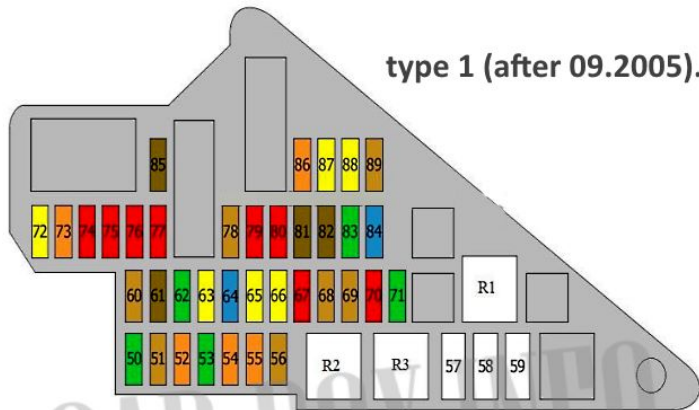
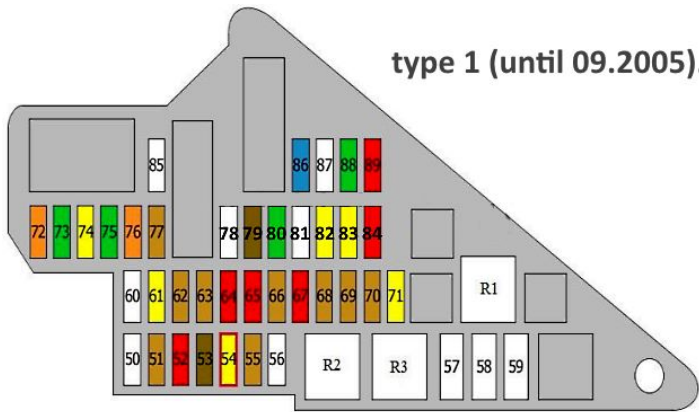
Access example.



General view of the block.

Diagram of fuses and relays in the luggage compartment

Diagram of fuses and relays in the luggage compartment



No.	Decryption	A
50	M54, N62 : Fuel module (fuel pump) relay	20
	N52 , diesel engines: Fuel pump control (EKPS)	
	S85 : Fuel pump output stage	
	as of 09.2005: Headlight Washer Pump	30
51	E60, E61:	5
	- Siren and security tilt sensor	
	- Electric interior mirror	

Diagram of fuses and relays in the luggage compartment		
	- Security alarm system with ultrasonic sensor in the cabin	
52	Micro Power Module	10
	<i>E61</i> : Air suspension compressor relay	40
53	<u>up to 09.2004</u> : tailgate drive with soft closing	7.5
	<u>09.2004-09.2005</u> :	
	- Comfort access control unit	
	- External door handle electronics on the driver's side	
	- Passenger side outside door handle electronics	
	- Electronic unit of the external handle of the left rear door	
	- Electronic block of the external handle of the right back door	
	<u>as of 09.2005</u> : Active backrest width adjustment, front right seat	30
54	<u>up to 09.2005</u> : Relief relay terminal 15	20
	<u>from 09.2005</u> : Heated rear window	40
55	<u>up to 09.2005</u> : Rain/light sensor	5
	<u>as of 09.2005</u> : tailgate lift	40
56	<u>as of 09.2005</u> : Rain/Ambient Light Sensor	5
57	<u>up to 09.2005</u> : micro power module	20
	<u>IHKA Basic</u> ; <u>as of 09.2005</u> : Heating and air conditioning system	5
58	<u>up to 09.2005</u> : Heated rear window	40
	<u>from 09.2005</u> : Rear window wiper relay	20
59	Antenna tuner with remote control receiver	5
60	<u>as of 09.2005</u> : Rollover protection controller	5
61	<u>up to 09.2005</u>: E60 front cigarette lighter fuse	20
	Charging socket in glove box	
	<u>as of 09.2005</u> : Refrigerator	7.5
62	<u>up to 09.2005</u> : Relief relay terminal 15	5
	<u>as of 09.2005</u> : <u>E60, E61</u> : Trailer electronics module	30
63	<u>up to 09.2005</u> : <u>Electric</u> interior mirror / Park Distance Control (PDC)	5
	<u>as of 09.2005</u> : auxiliary/auxiliary heater	20
64	<u>up to 09.2005</u> : Rear display / Controller / Central information display	10
	<u>IHKA High</u> ; <u>as of 09.2005</u> : Heating and air conditioning system	15
65	<u>up to 09.2005</u> : Headphone connection module / Upper display	10
66	<u>until 09.2005</u> :	5

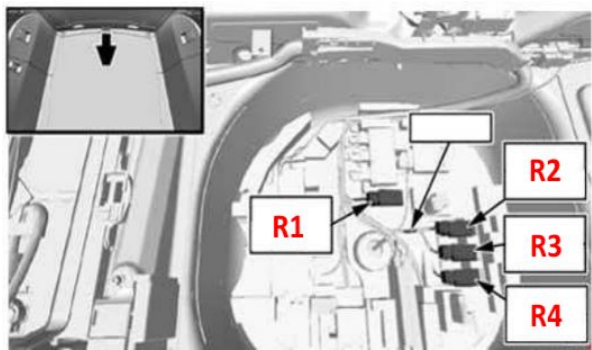
Diagram of fuses and relays in the luggage compartment		
	- Dynamic Stability Control (DSC)	
	- VTG transfer box:	
	- Dynamic Stability Control (DSC)	
	- transfer box ECU	
	<i>E60</i> : Sliding/tilting sunroof	20
	<i>E61</i> : Panoramic glass roof	
67	<u>until 03.2006:</u>	10
	- Video module	
	- Satellite receiver	
	<u>from 03.2006:</u>	20
68	- Automatic front and rear right doors	
	<u>before 03.2006:</u>	5
	- Switching center in the center console	
	- Driver's seat adjustment switch	
	- Front passenger seat adjustment switch	20
	<u>from 03.2006:</u>	
	- Automatic front and rear left doors	
69	Park Distance Control (PDC)	5
70	<u>up to 09.2005:</u> Adaptive headlights	5
	<u>09.2005-03.2007:</u> Active cruise control	10
	<u>from 03.2007:</u>	
	- Active cruise control system	
	- Far field sensor, Near field sensor right and left	
71	<u>until 09.2005:</u>	20
	- Rear window wiper relay	
	- S85 : Fuel pump output stage	30
	<u>as of 09.2005:</u> Switching center in center console	
72	<u>until 09.2005:</u>	40
	- <i>E61</i> : Air suspension compressor relay	20
	- <i>N62</i> : Fuel pump relay	
	- <i>N52</i> , diesel engines: Fuel pump control (EKPS)	
73	Trailer electrical connection module	30
	<u>09.2005-03.2007:</u> HiFi amplifier	

Diagram of fuses and relays in the luggage compartment		
	from 03.2007: HiFi Amplifier	40
	up to 09.2005: Electric socket trailer	20
74	from 09.2005:	10
	- Switching center in the center console	
	- Driver's seat adjustment switch	
	- Front passenger seat adjustment switch	7.5
	from 09.2007:	
	- Switching center in the center console	
	- Driver's seat adjustment switch	
	- Front passenger seat adjustment switch	
75	up to 09.2005: transfer case control unit	30
	from 09.2005:	10
	- Satellite receiver	
	- Digital tuner	
	- Video module	
76	up to 09.2005: tailgate lift	40
	as of 09.2005: Dynamic Drive	10
77	up to 09.2005: Antenna tuner with remote control receiver	5
	from 09.2005:	10
	- Top display	
	- Headphone connection module	
78	from 09.2005:	5
	- Dynamic Stability Control (DSC)	
	- transfer box ECU	
79	up to 09.2005: Electronic ride height control	7.5
	from 09.2005:	10
	- Central information display	
	- Controller	
80	up to 09.2005: HiFi amplifier	30
	from 09.2005:	10
	- Control lever (selector)	
	- Illumination of the indicator of the included transfer	
	- TCU (Telematics Control Unit)	

Diagram of fuses and relays in the luggage compartment		
	- Compensator (cordless phone)	
	- Fan in the spare wheel well	
	- Night vision electronics	
81	as of 09.2005: Electronic ride height control	7.5
82	<u>until 09.2005:</u>	20
	- Socket in the trunk	
	- Rear cigarette lighter	
	- Rear outlet	7.5
	<u>as of 09.2005:</u> Tire pressure monitoring system (RDC)	
83	<u>until 09.2005:</u>	20
	- E60 : Sliding sunroof	
	- E61, E63 : Panoramic glass roof	30
	<u>from 09.2005:</u>	
	- Active backrest width adjustment, front left seat	
84	<u>up to 09.2005</u> : Active cruise control	10
	<u>from 09.2005:</u>	15
	- Gearbox control system	
	- Sequential manual transmission (SMG)	
85	<u>as of 09.2005:</u> Sequential manual transmission (SMG)	7.5
86	<u>before 09.2005:</u>	15
	- Gearbox control system	
	- Sequential manual transmission (SMG)	
	<u>as of 09.2005:</u> Active Steering	40
87	<u>from 09.2005:</u>	2
	- Front cigarette lighter	
	- Charging socket in glove box	
88	<u>up to 09.2005:</u> Switching center in center console	30
	<u>as of 09.2005:</u> Socket in luggage compartment, Rear cigarette lighter and socket	twenty
89	<u>until 09.2005:</u>	10
	- MMC changer fan	
	- Illumination of the indicator of the included transfer	
	- Control lever (selector)	
	- Fan in the spare wheel well	

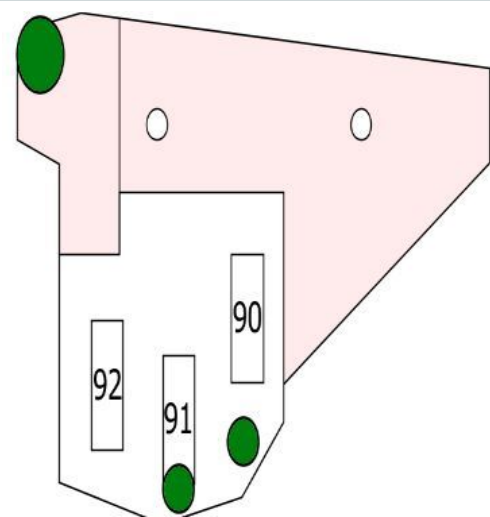
Diagram of fuses and relays in the luggage compartment		
	- TCU (Telematics Control Unit)	
	- ULF (Universal Charging & Hands-Free)	
	as of 09.2005: Electrical Interior Mirror, Relief Relay Terminal 15	5
R1	Rear defroster relay	
	Battery Current Monitoring Relay	
R2	Ignition Auxiliary Relay	
R3	Main Ignition Relay	

Additional relay modules



No.	Purpose
R1	EDC
R2	rear wiper
R3	auto-closer
R4	air suspension compressor

Power fuse board (located near the main box)



No.	Purpose	A
90	fuse box located in the dashboard	200

Power fuse board (located near the main box)		
91	multifunctional control unit	10
92	additional electric heater.	100

In the passenger compartment



The block is located behind the glove compartment. To access it, you need to smoke two latches.



General view of the block.



Access example.

PRICE DROP

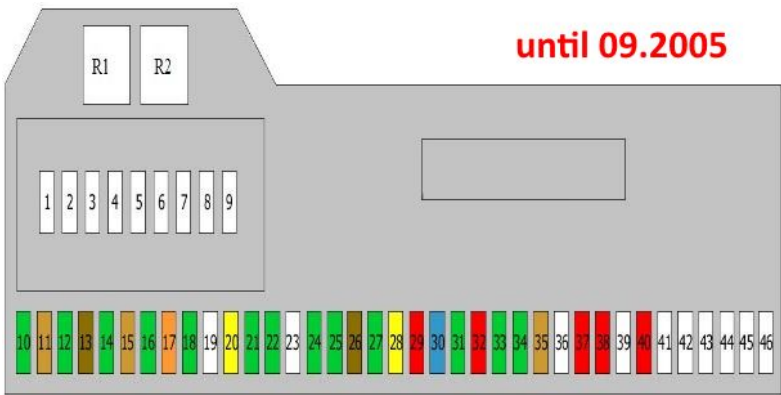
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Diagram of the cabin fuse box BMW 5 e60 / e61

Diagram of the cabin fuse box BMW 5 e60 / e61



No.	Decryption	Amps
1	Dynamic Stability Control (DSC)	50
2	Petrol engines: Secondary air blower relay	60
	Diesel engines: Fuel heating system	
3	Fan output stage	40
4	<u>up to 09.2005</u> : Active steering system	40
	<u>as of 09.2005</u> : Electronic Damper Control Relief Relay	20
5	Lamp health monitoring unit	50
6		50
7	Car access system	50
	Ignition / starter	30
8	M54:	60
	- Potential distributor B+	
	- DME control unit	
	- DME system relay	
	- Engine management system fuse holder: (F001, F05)	
	N62:	

Diagram of the cabin fuse box BMW 5 e60 / e61		
	- Built-in power module (IVM)	
	<i>N62 with SMG:</i>	
	- Engine management system fuse holder: (F01 (SMG hydraulic pump relay))	
	<i>S85:</i>	
	- Potential distributor B+	
	- DME system relay	
	- Engine management system fuse holder: (F01)	
	<i>N52:</i>	
	- Potential distributor B+	
	- DME control unit	
	- DME system relay	
	- Engine management system fuse holder: (F05, F07, F08, F010)	
9	electric fan	60
10	<u>up to 09.2005:</u> Driver's door module	30
	<u>from 09.2005:</u> Body Gateway (Front Left Window)	
11	Basic body module (central locking, power windows, wiper relay)	5
12	<u>up to 09.2005:</u> Passenger door module	30
	<u>as of 09.2005:</u> Basic Body Module (Front Right Power Window)	
	<u>up to 09.2005:</u> Instrument cluster	7.5
13	<u>VTG transfer case;</u> <u>from 09.2005:</u> transfer case control unit	30
	<u>S85;</u> <u>from 09.2005:</u> Sequential Manual Transmission (SMG)	15
14	Left front seat module (except partially electric base seat)	30
	Left front seat adjustment switch	
	Lumbar adjustment switch, front left	
15	Car access system	5
16	Wiper relay	30
17	<u>S85;</u> <u>up to 09.2005:</u> Sequential manual transmission (SMG)	15
	<u>as of 09.2005:</u> Switching center in steering column	5
18	<u>up to 09.2005:</u> Headlight washer system relay	30
	<u>as of 09.2005:</u> Body Gateway	
19	<i>USA :</i> Gear indicator light	5
	<i>S85 :</i> EDC Damper Control	
20	<i>SHZH :</i> Auxiliary/additional heater	20

Diagram of the cabin fuse box BMW 5 e60 / e61		
	<u>EDC Damper Control</u> : Relief relay for electronic damper control	
21	Right front seat module (except partially electric base seat)	30
	Right front seat adjustment switch	
	Lumbar adjustment switch, front right seat	
22	Body Gateway (Rear Left Power Window)	30
23	<u>S85; as of 09.2005</u> : Electric vacuum pump relay	30
24	Body Gateway (Rear Right Power Window)	30
25	Dynamic Stability Control (DSC)	30
26	<u>IHKA Basic</u> : Heating and air conditioning system	7.5
	<u>as of 09.2005</u> : Relief relay terminal 15	20
27	Basic body module (central locking)	30
28	Switching center in the steering column	20
29	Security and Interworking Module	10
	OBDII connector socket	
30	<u>IHKA High</u> : Heating and air conditioning system	15
	Fuel pump output stage (<i>M5</i>)	20
	Fuel pump relay (<i>N62</i> engine)	
31	Front left seat module	30
32	<u>up to 09.2005</u> : Dynamic Drive system	10
	<u>S85; up to 09.2005</u> : Electric vacuum pump relay	
	<u>from 09.2005</u> :	
	- Electric outside mirror, driver and passenger side	
	- Driver's door switch box	
33	Front right seat module	30
34	<u>before 09.2005</u> : CCC/M-ASK	30
	<u>from 09.2005</u> : CCC/M-ASK	20
35	Navigation system	5
36	Comfort access control unit	7.5
	Electronic unit for outside door handles	
37	<u>before 09.2005</u> :	10
	- TCU (Telematics Control Unit)	
	- ULF (Universal Charging & Hands-Free)	
	<u>09.2005-03.2007</u> :	5

Diagram of the cabin fuse box BMW 5 e60 / e61		
	- TCU (Telematics Control Unit)	
	- ULF (Universal Charging & Hands-Free)	
	<u>from 03.2007:</u>	
	- ULF-SBX	
	- TCU (Telematics Control Unit)	
	- ULF-SBX-H	
	- USB hub	
38	<u>up to 09.2005:</u> CD changer	10
	<u>from 09.2005:</u> CD changer	5
39	Not used	—
40	DVD changer	10
41	<u>as of 09.2005:</u> Instrument cluster	5
42	S85 : Sequential manual transmission (SMG)	15
43	Not	—
44	Not	—
45	Not	—
46	Not	—
R1	Fuel module relay (fuel pump)	
R2	Headlight washer relay	

In the engine compartment

Mounting blocks are located on the passenger side behind a plastic cover.



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Diagram

No.	Description	A
F1	Engine management	30
F2		30
F3	Spare	20
F4	Spare	30
F5	Engine management	30
F6		10
F7		40
F8	Spare	30
F10	Crankcase ventilation heater	5
1	ECU engine	
2	—	
3	Valve lift control relay	
4	Crankcase ventilation heater relay	
5	Windshield wiper motor relay	

Diagram	
6	Air outlet pump relay
7	Engine management relay

Block No. 2 diagram (Intake resonator)

No.	Decryption	A
F1	<i>N62:</i>	30
	- DME control unit	
	- Valve drive control unit with variable opening phase	
	- Nozzle (5, 6, 7, 8)	
	- Sequential manual transmission (SMG)	
	<i>S85:</i> Idling valve	20
	<i>M54:</i> SMG hydraulic pump relay	
F2	<i>N62, TU:</i>	20
	- DME control unit	
	- Fuel tank ventilation valve	
	- Camshaft position sensor 2	
	- Solenoid valve VANOS 2, intake and exhaust side	
	- <i>S85</i> : Idle valve 2	
F3	<i>N62:</i> Ignition coil (1, 2, 3, 4)	20
	<i>S85:</i> Electric throttle control	30
F4	<i>N62:</i> Ignition coil (5, 6, 7, 8)	20
	<i>S85:</i> Ion current control unit 2	10
F5	<i>N62, TU:</i> Hot Air Mass Meter, Crankshaft Position Sensor, DME ECU, Programmable Thermostat, VANOS Solenoid Valve, Intake and Exhaust Side	30

Block No. 2 diagram (Intake resonator)		
	S85: Electric throttle control 2	
F6	N62: Injector (1, 2, 3, 4), DME control unit	20
F7	N62: Sequential manual transmission (SMG), DME control unit	20
F8	N62: Lambda probe, DME control unit, oil sensor	30
F9	<u>until 03.2007:</u>	10
	- Fuel module relay (fuel pump)	
	- Silencer damper	
	- E/magnet for radiator shutters	
	- Electronics box fan	
	- Fuel tank leak diagnostic module	
	- Secondary air blower relay	
	<u>from 03.2007:</u>	
	- Fuel module relay (fuel pump)	
	- Silencer damper	
	- E/magnet for radiator shutters	
	- Electronics box fan	
	- Fuel tank leak diagnostic module	
	- Secondary air blower relay	
	- Left and right brake disc ventilation valve sensor	
	- AUC sensor	
F10	N62, TU: Variable valve timing ECU	40
	N52: Crankcase ventilation heater relay	5
F11	N62, TU: Variable valve timing ECU	40
1	Engine ECU	
2	Valve lift control unit	
3	Electronic transmission control unit - SMG	
4	Multifunction control box 4	
5	windshield cleaner	
6	exhaust air pump	
7	transmission fluid pump - SMG	

General layout of electronic components

General layout of electronic components

No.	Component
1	ABS Electronic Control Unit - Engine Compartment
2	A/C/Heater Fan Motor Control Module - Behind A/C/Heater Control Panel
3	Power steering control module - under front seat
4	Impact sensor (SRS) 1 - front suspension strut
5	Impact Sensor (SRS) 2 - Front Suspension Strut
6	Side impact sensor 1 - B-pillar top
7	Side impact sensor 2 - upper part of the B-pillar
8	Side impact sensor 3 - in the door
9	Side impact sensor 4 - in the door
10	Theft Deterrent Control Module (Station wagon) - on the ceiling panel
11	Vehicle tilt sensor (anti-theft system) - in the anti-theft siren - behind the bumper
12	Anti-theft siren - behind the bumper
13	Volume change sensor (anti-theft system) / anti-theft control unit (sedan) - on the ceiling panel
14	Volume Change Sensor (Theft Deterrent System) (Station wagon) - Roof Panel
15	Secondary Door Closing Motor Relay (Rear Door) - Under Hollow Cargo Spaces
16	Audio System Antenna (Sedan) - Behind Roof Panel
17	Audio System Antenna (Station wagon) - in the rear door
18	Audio Output Amplifier - LH Trunk
19	Additional heater - behind the wheel arch

General layout of electronic components	
20	Battery - on the right side of the luggage compartment
21	Battery Status Sensor - On Battery
22	CD changer - behind the glove box
23	Battery protection (shutdown) module in case of an accident - on the battery
24	Refrigerator - in the back of the seat
25	Distance control module (cruise control) - behind the glove box
26	Obstacle Distance Sensor (Adaptive Cruise Control) - Long Range
27	Obstacle Distance Sensor (Adaptive Cruise Control) - Short Distance 1- Behind Bumper (03/07)
28	Obstacle Distance Sensor (Adaptive Cruise Control) - Short Distance 2- Behind Bumper (03/07)
29	Diagnostic connector (DLC)
30	Additional electric heater - on the heater fan housing
31	Electronic engine control unit - in the fuse / relay box in the engine compartment
32	Fuel Filter Heater (Diesel) - Underbody
33	Fuel Pump Control Module (6 Cyl. Petrol/Diesel) - Right Side of Luggage Compartment
34	Fuse/Relay Box, Engine Compartment
35	Fuse and relay box, instrument panel - behind the glove box
36	Fuse and relay box, luggage compartment 1 - on the right side of the luggage compartment
37	Fuse and relay box, luggage compartment 2 - on the right side of the luggage compartment
38	Acceleration sensor (lateral) - under the front seat
39	Horn (upper) - behind the wheel arch lining of the front right wheel
40	Horn (lower) - behind the wheel arch lining of the front right wheel
41	Instrument Cluster Control Module
42	keyless entry system control module - behind the glove box
43	Lighting control module - behind the light switch - functions: <i>Fog lights, alarms, headlight range control, headlights, turn indicators, front position, rear position, trailer electrical connector</i>
44	Multifunction Switch Control Module, Functions: <i>ABS, Power Roof, Heated Seats, Sunblinds</i>
45	Multifunctional control unit 1 - behind the dashboard - functions: <i>Central locking, power windows. remote control (keyless entry), starting system. steering column lock</i>
46	Multifunctional control unit 2 - behind the glove box - functions: <i>Battery management module. central locking, power windows, interior lamps, windshield wiper/washer</i>
47	Multifunctional control unit 3 - behind the glove box - functions: <i>Auto-dimming interior rearview mirror, battery control unit, central locking, power windows, rear-view mirror heater, interior lamps, power steering</i>
48	Multifunction control unit 4 (8 cyl. petrol) - in the fuse / relay box in the engine compartment - functions: <i>Engine control</i>

General layout of electronic components	
49	Multifunction control unit 5- in the fuse/relay box in the luggage compartment 1 - Functions: <i>Headlight washer pump, rear window defroster .Auxiliary circuits</i>
50	Multifunction Display Control Module - LH Trunk
51	Multimedia control unit - functions: <i>Audio system. CD changer, navigation system, telephone, voice control</i>
52	Night vision control module - behind the glove box
53	Ambient temperature sensor - behind the bumper
54	Parking system control module - for hollow luggage compartments
55	Rain/sunlight sensor - upper center windshield
56	Rear Wiper Relay (Station Wagon) - Under Trunk Floor
57	Left Front Seat Power Control Module - Under Seat
58	Right front seat power control module - under the seat
59	Steering column electrical control module - under the steering wheel
60	Sunroof Power Control Module (Station Wagon) - Behind the Glove Box
61	Sunroof control module (sedan) - behind the ceiling panel
62	SRS electronic control unit - under the center console
63	Active Suspension Compressor Relay - Luggage Underfloor
64	Suspension control module (anti-roll system (ACE)) - behind the lower protective panel
65	Suspension Control Module, Height Control (Estate) - Luggage Underfloor
66	Body height sensor (left rear) - on the suspension
67	Body Height Sensor (Right Front) - Suspension
68	Body Height Sensor (Right Rear) - Suspension
69	Combination switch control module, i-drive
70	Rear Door Open/Close Control Module (wagon) - under luggage compartment floor
71	Phone
72	Phone antenna - under the center console
73	Phone transceiver (sedan) - left side of luggage compartment
74	Phone transceiver (station wagon) - under the floor of the luggage compartment
75	Trailer Electrical Control Module - Underfloor Luggage Compartment
76	Transfer Case Control Module - Under Front Seat
77	Electronic transmission control unit (automatic transmission) - in the checkpoint
78	Transmission ECM (Automatic Shift Transmission (ASM)) - in the fuse/relay box in the engine compartment
79	Tire pressure monitoring control module - under luggage compartment floor
80	Valve lift control module (8 cyl. petrol) - in the fuse/relay box in the engine compartment

General layout of electronic components

81 Lateral movement sensor - under the front seat



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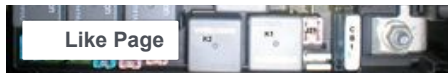
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