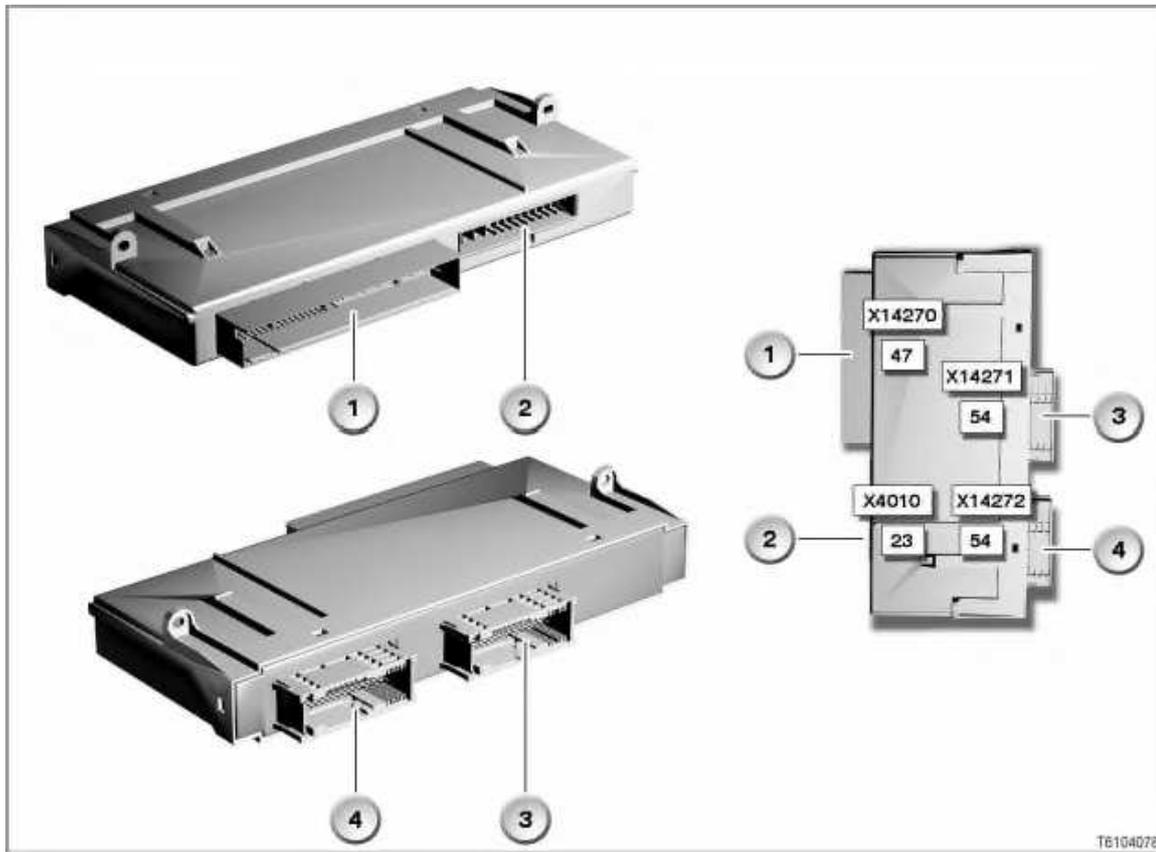


Construction



Item	Description	Item	Description
1	Connector X14270, 47-pin	2	Plug connector to distribution box X4010, 23-pin
3	Connector X14271, 54-pin	4	Connector X14272, 54-pin

Item 1: Connector X14270, 47-pin

Pin	Type	Description
1	A	Signal for control valve in A/C compressor
2	---	---
3	A	Rear window blind actuation
4	---	---
5	---	---
6	---	---
7	---	---
8	---	---
9	---	---
10	---	---
11	0	Looped through, no signal processed in the junction box electronics
12	A	Signal for boot lid lock
13	0	Looped through, no signal processed in the junction box electronics
14	A	Central locking system actuation

15	A	Central locking system actuation
16	A	Central locking system actuation
17	A	Central locking system actuation
18	A	Central locking system actuation
19	A	Central locking system actuation
20	A	Central locking system actuation
21	A	Windscreen washer pump actuation
22	A	Windscreen washer pump actuation
23	M	Earth connection
24	A	Rear power windows actuation
25	A	Rear power windows actuation
26	A	Rear power windows actuation
27	A	Rear power windows actuation
28	A	Actuation for mirror and washer jet heating, left
29	A	Actuation for mirror and washer jet heating, left
30	A	Rear window blind actuation
31	A	Actuation for mirror and washer jet heating, right
32	A	Actuation for mirror and washer jet heating, right
33	A	Water valve actuation
34	A	Pulse-width modulated signal for driver's seat heating
35	---	---
36	A	Central locking system actuation
37	A	Auxiliary water pump actuation
38	A	Pulse-width modulated signal for driver's seat heating
39	---	---
40	---	---
41	---	---
42	A	Central locking system actuation
43	A	Central locking system actuation
44	A	Central locking system actuation
45	A	Central locking system actuation
46	A	Central locking system actuation
47	A	Central locking system actuation
	A = Output M = Earth 0= Looped through, no signal processed in the junction box electronics For current specifications regarding pin assignments, please refer to BMW diagnosis system	

Item 2: Connector X4010, 23-pin

Pin	Type	Description
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1	E	Diagnosis signal from heated rear window
2	E	Diagnosis signal from rear window wiper
3	E	Positive power supply for junction box electronics
4	A	Actuation for rear window wiper, earthed
5	E	Positive power supply for central locking system
6	E	Positive power supply for central locking system
7	0	Looped through, no signal processed in the junction box electronics
8	0	Looped through, no signal processed in the junction box electronics
9	0	Looped through, no signal processed in the junction box electronics
10	0	Looped through, no signal processed in the junction box electronics
11	A	Actuation for bistable relay, earthed
12	A	Actuation for heated rear window, earthed
13	A	Actuation for bistable relay, earthed
14	A	Actuation for windscreen wipers, earthed
15	E	Diagnosis signal from windscreen wipers
16	A	Actuation for windscreen wipers, earthed
17	0	Looped through, no signal processed in the junction box electronics
18	E	Diagnosis signal from windscreen wipers
19	A	Actuation for headlight cleaning system, earthed
20	E	Diagnosis signal from the wiper and washer system
21	E	Positive power supply for power windows on driver's side
22	E	Positive power supply for junction box electronics
23	E	Positive power supply for power windows on passenger side
	A = Output E = Input M = Earth V = Supply For current specifications regarding pin assignments, please refer to BMW diagnosis system	

Item 3: Connector X14271, 54-pin

Pin	Type	Description
1	E/A	Powertrain Controller Area Network High
2	E/A	Powertrain Controller Area Network Low
3	0	Looped through, no signal processed in the junction box electronics
4	0	Looped through, no signal processed in the junction box electronics
5	0	Looped through, no signal processed in the junction box electronics
6	0	Looped through, no signal processed in the junction box electronics
7	E	Signal from fuel-level sensor 1
8	M	Earth for rear stratification control
9	E	Signal from fuel-level sensor 2

10	E/A	PT CAN Low
11	E	Signal from tailgate contact
12	A	Actuation for rear stratification control
13	E	Signal 1 from rear stratification control
14	E	Signal from switch for rear passenger-side power window drive
15	E	Signal from switch for rear driver-side power window drive
16	E	Pulse-width modulated signal from the sensor for the automatic recirculated air control
17	---	---
18	---	---
19	0	Looped through, no signal processed in the junction box electronics
20	0	Looped through, no signal processed in the junction box electronics
21	0	Looped through, no signal processed in the junction box electronics
22	0	Looped through, no signal processed in the junction box electronics
23	0	Looped through, no signal processed in the junction box electronics
24	E	Signal 2 from rear stratification control
25	M	Earth for Hall sensor on passenger side
26	M	Earth for pressure sensors
27	M	Earth for Hall sensor on driver's side
28	E	Signal from switch for front passenger-side power window drive
29	E	Signal from Hall sensor 2 from rear driver-side power windows
30	A	Pressure sensor actuation
31	E	Signal from windscreen washer fluid-level switch (earth)
32	---	---
33	E/A	Diagnosis wire
34	E	Signal from fuel-level sensor 1
35	E	Signal from front windscreen wiper reset contact (earth)
36	E	Signal from rear windscreen wiper reset contact (earth)
37	0	Looped through, no signal processed in the junction box electronics
38	0	Looped through, no signal processed in the junction box electronics
39	---	---
40	0	Looped through, no signal processed in the junction box electronics
41	0	Looped through, no signal processed in the junction box electronics
42	0	Looped through, no signal processed in the junction box electronics
43	0	Looped through, no signal processed in the junction box electronics
44	E	Signal from tailgate switch (earth)
45	E/A	PT-CAN wake-up wire
46	E/A	K-CAN High
47	E	Signal from Hall sensor 1 from rear driver-side power windows

48	E	Signal from Hall sensor 1 from rear passenger-side power windows
49	E	Signal from Hall sensor 2 from rear passenger-side power windows
50	---	---
51	E	Pressure sensor signal
52	E	Signal from fuel-level sensor 2
53	---	---
54	E	Signal from coolant level switch (earth)
<p>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</p>		

Item 4: Connector X14272, 54-pin

Pin	Type	Description
1	0	Looped through, no signal processed in the junction box electronics
2	0	Looped through, no signal processed in the junction box electronics
3	0	Looped through, no signal processed in the junction box electronics
4	E	Signal from DTC button (earth)
5	A	Central locking system actuation
6	A	Terminal 31
7	A	Terminal 31
8	A	Terminal 31
9	A	Terminal 31
10	E/A	K-CAN High
11	E/A	K-CAN High
12	E/A	K-CAN Low
13	---	---
14	---	---
15	0	Looped through, no signal processed in the junction box electronics
16	0	Looped through, no signal processed in the junction box electronics
17	0	Looped through, no signal processed in the junction box electronics
18	0	Looped through, no signal processed in the junction box electronics
19	0	Looped through, no signal processed in the junction box electronics
20	---	---
21	---	---
22	---	---
23	---	---
24	A	Terminal 31

25	A	Terminal 31
26	A	Terminal 31
27	A	Terminal 31
28	---	---
29	E/A	K-CAN High
30	E/A	K-CAN Low
31	E/A	K-CAN Low
32	A	Central locking system actuation
33	0	Looped through, no signal processed in the junction box electronics
34	0	Looped through, no signal processed in the junction box electronics
35	0	Looped through, no signal processed in the junction box electronics
36	0	Looped through, no signal processed in the junction box electronics
37	0	Looped through, no signal processed in the junction box electronics
38	---	---
39	---	---
40	---	---
41	---	---
42	A	Terminal 31
43	A	Terminal 31
44	A	Terminal 31
45	A	Terminal 31
46	A	Terminal 31
47	E/A	K-CAN High
48	E/A	K-CAN Low
49	---	---
50	E/A	PT-CAN wake-up wire
51	0	Looped through, no signal processed in the junction box electronics
52	0	Looped through, no signal processed in the junction box electronics
53	0	Looped through, no signal processed in the junction box electronics
54	---	---
	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	