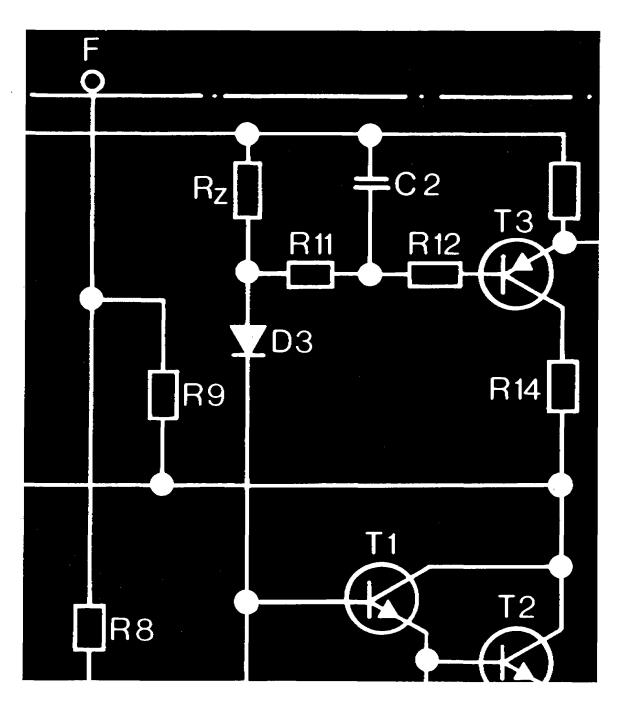
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1991 BMW 735i/735iL/750iL (E32) Electrical Troubleshooting Manual Vehicles Produced 9/90—8/91

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— Fog 6313-05 — Glove Box 6331-00 — Hazard 6312-00 — Headlights 6313-04, 05 — Interior (ZKE) 6330-02, 03 — License 6320-01 — Marker 6314-01 — Park 6314-02 — Tail 6314-02 — Turn 6312-02, 03 — Trunk 6320-02 — Underhood 6314-03 Light Switch Details 6300-00	— Brake	6325-01
— Glove Box 6331-00 — Hazard 6312-00 — Headlights 6313-04, 05 — Interior (ZKE) 6330-02, 03 — License 6320-01 — Marker 6314-01 — Park 6314-02 — Tail 6314-02 — Turn 6312-02, 03 — Trunk 6320-02 — Underhood 6314-03 Light Switch Details 6300-00	— Cigar Lighter	6331-01
— Hazard 6312-00 — Headlights 6313-04, 05 — Interior (ZKE) 6330-02, 03 — License 6320-01 — Marker 6314-01 — Park 6314-02 — Tail 6314-02 — Turn 6312-02, 03 — Trunk 6320-02 — Underhood 6314-03 Light Switch Details 6300-00	— Fog	6313-05
— Headlights 6313-04, 05 — Interior (ZKE) 6330-02, 03 — License 6320-01 — Marker 6314-01 — Park 6314-02 — Tail 6314-02 — Turn 6312-02, 03 — Trunk 6320-02 — Underhood 6314-03 Light Switch Details 6300-00	— Glove Box	6331-00
— Interior (ZKE). 6330-02, 03 — License. 6320-01 — Marker 6314-01 — Park 6314-02 — Tail 6314-02 — Turn 6312-02, 03 — Trunk 6320-02 — Underhood 6314-03 Light Switch Details 6300-00	— Hazard	6312-00
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— Marker 6314-01 — Park 6314-02 — Tail 6314-02 — Turn 6312-02, 03 — Trunk 6320-02 — Underhood 6314-03 Light Switch Details 6300-00	— Interior (ZKE)	30-02, 03
— Park 6314-02 — Tail 6314-02 — Turn 6312-02, 03 — Trunk 6320-02 — Underhood 6314-03 Light Switch Details 6300-00	— License	6320-01
— Tail 6314-02 — Turn 6312-02, 03 — Trunk 6320-02 — Underhood 6314-03 Light Switch Details 6300-00	— Marker	6314-01
— Turn 6312-02, 03 — Trunk 6320-02 — Underhood 6314-03 Light Switch Details 6300-00	— Park	6314-02
— Trunk 6320-02 — Underhood 6314-03 Light Switch Details 6300-00	— Tail	6314-02
— Underhood 6314-03 Light Switch Details 6300-00	— Turn 63	12-02, 03
Light Switch Details 6300-00	— Trunk	6320-02
Lumbar Support	•	
	Lumbar Support	5202-00

Memory Mirrors	5119-00
Memory Seat	5201-00
Memory Steering Column	3231-00
On-Board Computer	6581-00
Park Ventilation	6413-00
Power Assist Steering (Servotronic)	3240-00
Power Distribution Charts	0660-00
Power Distribution	0670-00
Power Rear Headrest	5205-00
Power Steering Column Adjust	3232-00
Power Seats	5200-00
Power Windows (ZKE)	5133-00
Radio/CD Player (Provisions)	6500-00
Rear Defogger (IHKA)	6420-00
Splice Location Views	8000-00
Start	1240-00
Sunroof (ZKE)	5410-00
Supplemental Restraint System (Air Bag)	3234-00
Symbols	0140-00
Systematic Troubleshooting	0130-00
Windshield Washer (ZKE)	6166-00
Windshield Washer Jet Heaters	6169-00
Windshield Wipers (ZKE)	6161-00
• • •	

The purpose of this manual is to provide information to aid in electrical troubleshooting. It consists of system block diagrams, schematics, component location information, harness routing views and connector views.

The manual is divided into sections called cells. In each cell electrical components that work together are shown together on one or more schematics. At the top of the page is the fuse (positive) that powers the circuit. The flow of current is shown through all wires, connectors, switches, and motors to ground (negative) at the bottom of the page.

Within the schematic all switches and sensors are shown "at rest," as though the Ignition Switch were off. For identification, component names are underlined and placed next to or above each component. Notes are included that describe how or when switches and other components work.

The Power Distribution schematics show the current feed through all the connections from the Battery and Alternator to each fuse and the Ignition and Light Switches. If a Power Distribution schematic is combined with any other circuit schematic, a complete picture is made of how that circuit works. The Ground Distribution schematics show how several circuits are connected to common grounds. All wiring between components is shown exactly as it exists in the vehicles; however, the wiring is not drawn to scale. To aid in understanding electrical operation, wiring inside complicated components has been simplified. Further information regarding schematic symbols and references can be found in cell 0140 (Symbols).

The Central Body Electronics System incorporates the use of a single module that controls many apparently unrelated functions. For instance, the Sunroof and Windshield Wipers are controlled by the same module. However, only the portion of the module that controls the Sunroof will appear in the Sunroof schematics.



Component Identification Information begins in cell 7000 and consists of the Component Location List, Component Location Photographs, and Harness Connector Faces. The Component Location List helps you find where the parts of the circuit are in the vehicle. A brief description of the location is given along with a reference to the photograph that shows the component and its connecting wires. The Harness Connector Faces show the cavity or terminal locations of all connectors having three or more pins. Harness Connector Faces help you locate test points. The drawings show the connector faces you see after the harness connector has been disconnected from a component.



SYSTEMATIC TROUBLESHOOTING

TROUBLESHOOTING PROCEDURES

Diagnostic procedures for many of the circuits in this manual are included with the schematics. These procedures are based on a logical problem-solving procedure. The steps listed below are provided for those circuits that do not include diagnositic procedures. Following these steps will enable you to make a quick diagnosis of the problem.

1. Verify the Problem

Operate the problem circuit to check the accuracy of the complaint. Note the symptoms of the inoperative circuit.

2. Analyze the Problem

Refer to the schematic of the problem circuit in the ETM. Determine how the circuit is supposed to work by tracing the current path(s) from the power feed through the circuit components to ground. Then, based on the symptoms you noted in step 1 and your understanding of circuit operation, identify one or more possible causes of the problem.

3. Isolate the Problem

Make circuit tests to prove or disprove the preliminary diagnosis made in step 2. Keep in mind that a logical, simple procedure is the key to efficient troubleshooting. Test for the most likely cause of failure first. Try to make tests at points which are easily accessible.

4. Repair the Problem

Once the specific problem is identified, make the repair using the proper tools and safe procedures.

5. Check the Problem

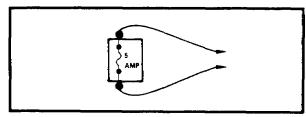
Operate the circuit to check for satisfactory circuit operation. Good repair practice calls for rechecking all circuits you have worked on.

TROUBLESHOOTING TOOLS

Isolating the problem (Step 3 of TROU-BLESHOOTING PROCEDURES) requires the use of a voltmeter and/or ohmmeter. A voltmeter measures voltage at selected points in a circuit. An ohmmeter measures a circuit's resistance to current flow. It has an internal battery that provides current to the circuit under test. Disconnect the car battery when using an ohmmeter because the battery voltage will cause the ohmmeter to give false readings. Also, do not use an ohmmeter on solid state components. The voltage that the ohmmeter applies to the circuit could damage these components.

Fused Jumper Wire

A jumper wire is made up of an in-line fuse holder connected to a set of test leads. It should have a five ampere fuse. Use it for bypassing open circuits. Never use a jumper wire across any load (motors, etc.). This direct battery short will blow the fuse.



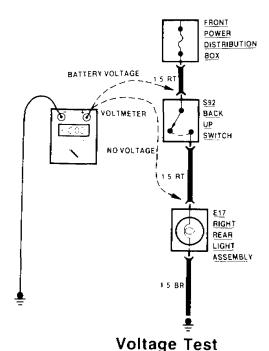
Fused Jumper Wire

TROUBLESHOOTING TESTS

Voltage Test

This test measures voltage in a circuit. By taking measurements at several points (terminals or connectors) along the circuit, you can isolate the problem.

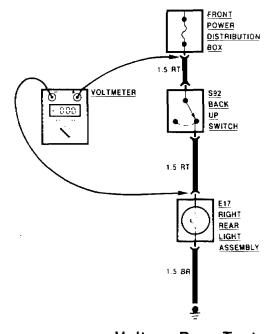
To take a voltage measurement, connect the negative lead of the voltmeter to the battery's negative terminal or other known good ground. Then connect the positive lead of the voltmeter to the point you want to test. The voltmeter will measure the voltage present at that point in the circuit.



Voltage Drop Test

Wires, connectors, and switches are designed to conduct current with a minimum loss of voltage. A voltage drop of more than one voltage indicates a problem.

To test for voltage drop, connect the voltmeter leads to connectors at either end of the circuit's suspected problem area. The positive lead should be connected to the connector closest to the power source. The voltmeter will show the voltage drop between these two points. Any switch in the circuit should be closed during this test.

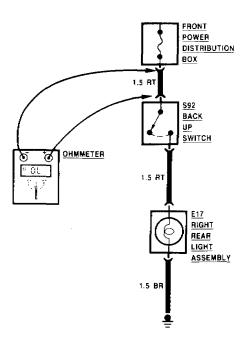


Voltage Drop Test

SYSTEMATIC TROUBLESHOOTING

Continuity Test

To perform a continuity test, first disconnect the car battery. Then, while holding the leads together, adjust the ohmmeter to read zero. Connect the ohmmeter leads to connector or terminals at either end of the circuit's suspected problem area. The ohmmeter will show the resistance across that part of the circuit. This test can also be performed with a self-powered test light.

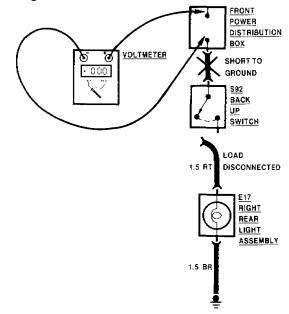


Continuity Test

Short Test Using voltmeter

To locate a wiring short to ground, remove the blown fuse and disconnect the load. Connect the voltmeter leads to the fuse terminals. The positive lead should be connected to the terminal closest to the power source.

Starting near the FRONT POWER DISTRIBUTION BOX, move the wire harness back and forth and watch the voltmeter reading. If the voltmeter registers a reading, there is a short to ground in the wiring. Somewhere in the area of the harness being moved, the wire insulation is worn away and the circuit is grounding.

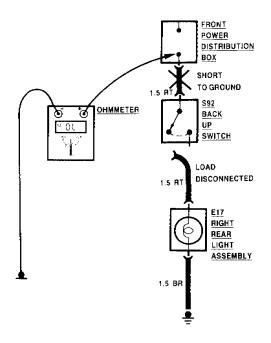


Short Test Using Voltmeter

SYSTEMATIC TROUBLESHOOTING

Short Test Using Ohmmeter

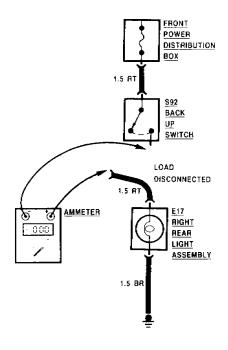
Disconnect the battery. While holding the leads together, adjust the ohmmeter to read zero. Remove the blown fuse and disconnect the load. Connect one lead of the ohmmeter to the fuse terminal that is closest to the load. Connect the other lead to a known good ground. Starting near the FRONT POWER DISTRIBUTION BOX, move the wire harness back and forth and watch the ohmmeter reading. Low or no resistance indicates a short to ground in the wiring. Infinitely high resistance indicates no short.



Short Test Using Ohmmeter

Current Test Using Ammeter

To measure the current, connect the ammeter leads to the connector or terminals in series with the circuit. The ammeter will show the current through the circuit.



Current Test Using Ammeter

0140-00

HEATING ELEMENT

LOUDSPEAKER

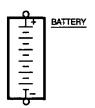
OR HORN

COIL OR SOLENOID





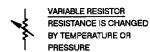




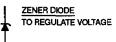


















BIFILAMENT LIGHT





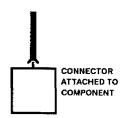
ENTIRE

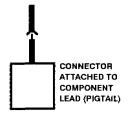
SHOWN

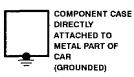
COMPONENT

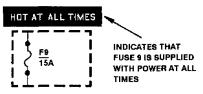
PART OF A COMPONENT SHOWN

COMPONENT WITH SCREW TERMINALS

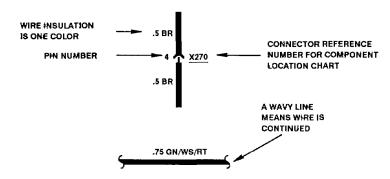




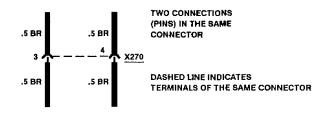


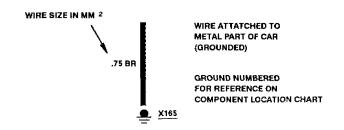


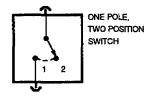
NUMBER	DESCRIPTION
50	VOLTAGE: IGNITION SWITCH IN START
30	VOLTAGE: SUPPLIED AT ALL TIMES
15	VOLTAGE: IGNITION SWITCH IN RUN OR START
15E	VOLTAGE: IGNITION SWITCH IN RUN
R	VOLTAGE: IGNITION SWITCH IN ACCESSORY, RUN OR START
31	GROUND

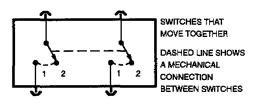


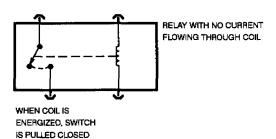
- 1. FIRST COLOR IS THE WIRE INSULATION.
- 2. SECOND COLOR IS THE "TRACER" OR "STRIPE" COLOR.
- 3. THIRD COLOR IS THE "DOTS" COLOR

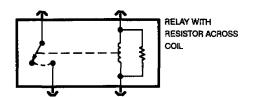


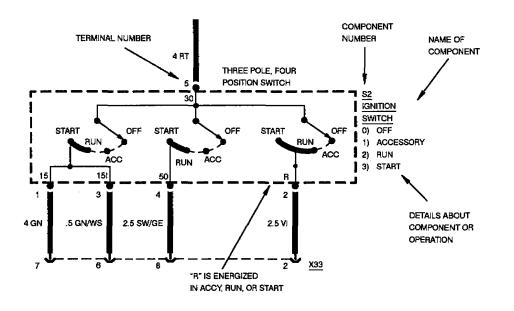






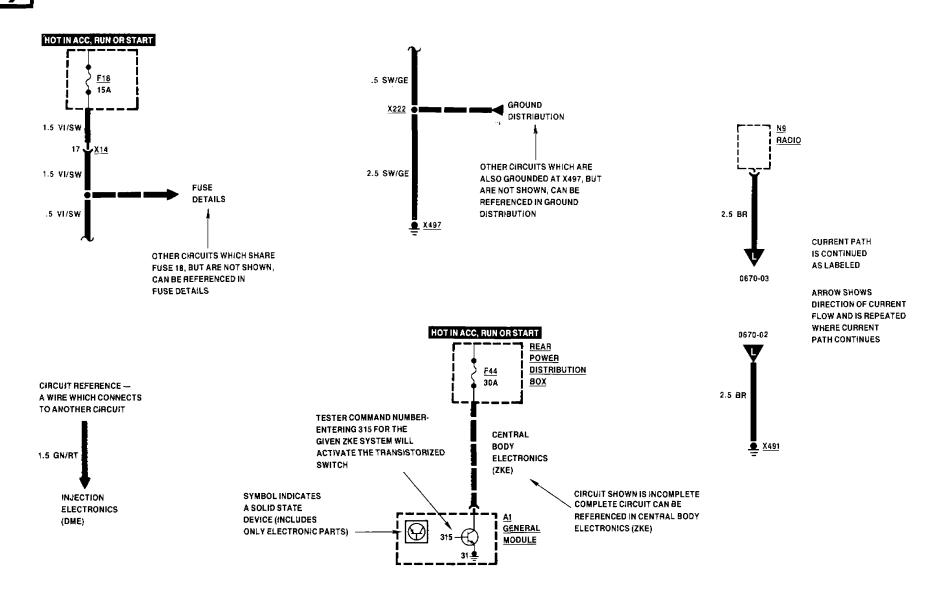




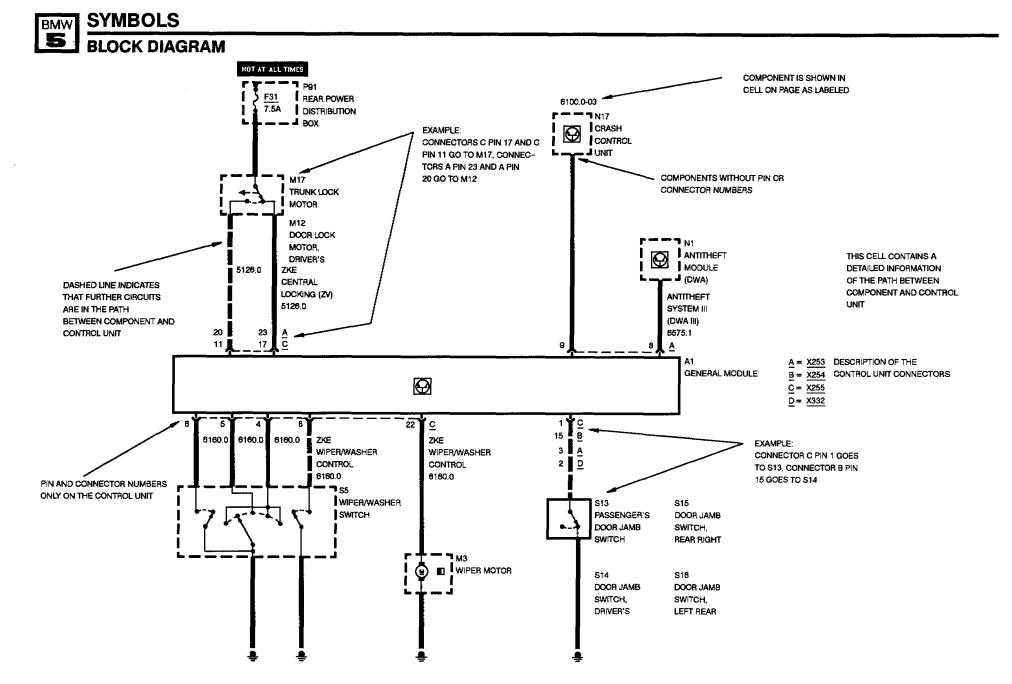


NUMBER	DESCRIPTION		
50	VOLTAGE: IGNITION		
	SWITCH IN START	WIR	E COLORS
30	VOLTAGE: SUPPLIED	BL	BLUE
	AT ALL TIMES	BR GE	BROWN YELLOW
15	VOLTAGE: IGNITION SWITCH IN	GN	GREEN
	RUN OR START	GR OR	GRAY ORANG
151	VOLTAGE: IGNITION SWITCH IN	RS	PINK
151	RUN	RT SW	RED BLACK
		l VI	VIOLET
R	VOLTAGE: IGNITION SWITCH IN	WS	WHITE
	ACCESSORY, RUN, OR START		

SYMBOLS



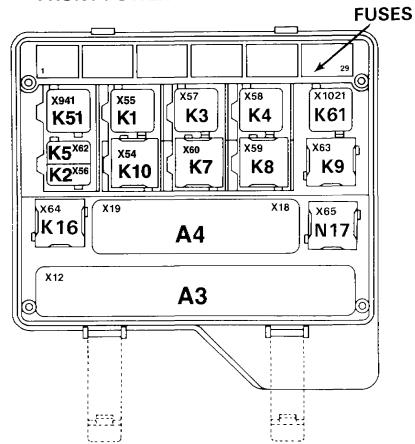




0660-00

FRONT POWER DISTRIBUTION BOX

FRONT POWER DISTRIBUTION BOX

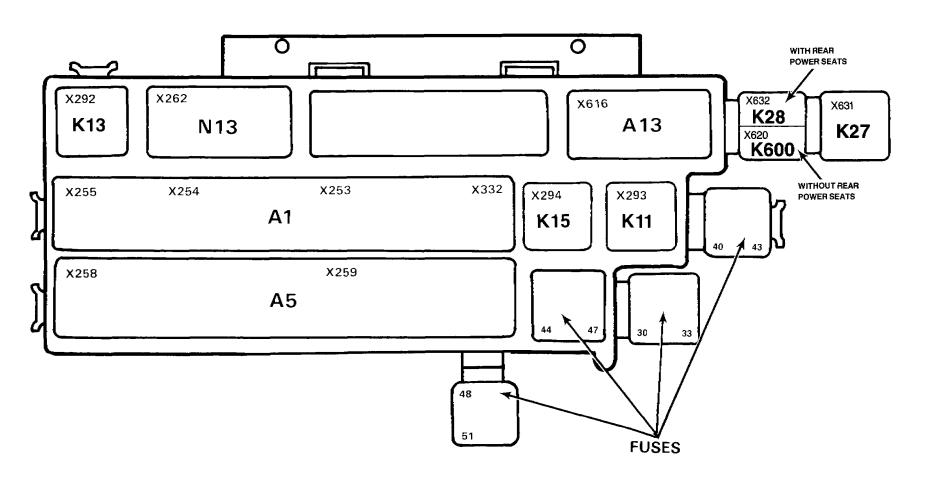


COMPONENTS IN FRONT POWER DISTRIBUTION BOX		
NUMBER	CONNECTOR	DESCRIPTION
A3	X12	LAMP CONTROL MODULE
A 4	X18, X19	CHECK CONTROL MODULE
K1	X55	STARTER RELAY (AUTO)
K2	X56	HORN RELAY
K3	X57	UNLOADER RELAY, KLR
K4	X58	BLOWER RELAY
K5	X62	WASHER PUMP RELAY
K7	X60	PARKING LIGHT MONITOR RELAY
K8	X59	FRONT DEFOGGER/WATER PUMP RELAY
K9	X63	UNLOADER RELAY, KL15
K10 (WITH- OUT ASC)	X54	ABS OVERVOLTAGE PROTECTION RELAY
K16	X64	HAZARD FLASHER RELAY
K51	X941	PHONE ALERT RELAY
K61	X1021	UNLOADER RELAY, KL61
N17	X65	CRASH CONTROL UNIT

POWER DISTRIBUTION CHARTS REAR BOWER TOTAL

REAR POWER DISTRIBUTION BOX

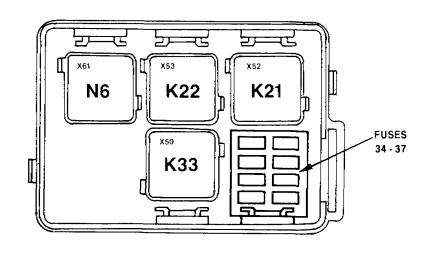
REAR POWER DISTRIBUTION BOX



POWER DISTRIBUTION CHARTS REAR POWER DISTRIBUTION BOX

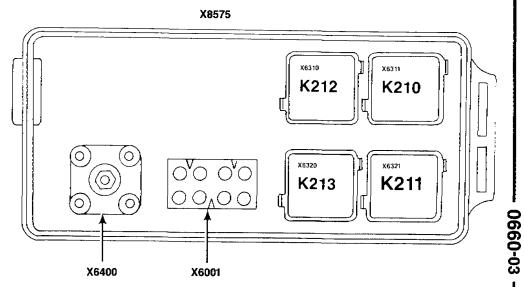
COMPONENTS IN REAR POWER DISTRIBUTION BOX		
NUMBER	CONNECTOR	DESCRIPTION
A1	X253, X254, X255, X332	GENERAL MODULE
A5	X258, X259	RELAY MODULE
A13	X616	REAR HEADREST CONTROL UNIT
K11	X293	WIPER RELAY
K13	X292	REAR DEFOGGER RELAY
K15	X294	ELECTRIC POWER PROTECTION RELAY
K27	X631	LEFT REAR SEAT HEATING/ POSITION RELAY
K28	X632	RIGHT REAR SEAT HEATING/ POSITION RELAY (WITH REAR POWER SEATS)
K600	X620	REAR SEAT HEATING/ HEADREST RELAY (WITHOUT REAR POWER SEATS)
N13	X262	INFRARED LOCKING CONTROL UNIT

AUXILIARY RELAY BOX 1



COMPONENTS IN AUXILIARY RELAY BOX 1		
NUMBER	CONNECTOR	DESCRIPTION
K21	X52	NORMAL SPEED RELAY
K22	X53	HIGH SPEED RELAY
K33	X56	AIR CONDITIONING MOTRONIC RELAY
N6	X61	HEADLIGHT/FRONT FOG LIGHT MODULE (SRA)

AUXILIARY RELAY BOX 2



COMPONENTS IN AUXILIARY RELAY BOX 2, 750IL ONLY											
NUMBER	CONNECTOR	DESCRIPTION									
K210	X6311	FUEL PUMP RELAY I									
K211	X6321	FUEL PUMP RELAY II									
K212	X6310	MAIN RELAY I									
K213	X6320	MAIN RELAY II									
<u> </u>	X6001	CONNECTOR (8 PINS)									
	X8575	CONNECTOR (2 PINS)									
	X6400	B + JUNCTION POST									

Full download: http://manualplace.com/download/bmw-735i-735il-750il-1991-electrical-troubleshooting-manual/

BMW Fuse

Fuse Chart

Fuses 1 to 29

	ruses 1 to 29																														
															F	use	∍ N	um	be	rs											\neg
		1	2	3	4	5	6	7	8	9	10	11	1 1:	2 1	3	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
		15A	7.5A	7.5A	7,5A	10A	15A	15A		15	A 7.5	A 7.5	A 15	A 7.	5A 7	.5A7	.5A	30A	7.5A	15A	30A	7.5A	7.5A	30A	15A	15A	30A	30A	30A	15A	7.5A
1230	Charging System									T									•											•	
1240	Start									T	T		T		T	1			•										\exists		
1360	Injection Electronics (DME 1.3)									T		\dagger	\dagger	1	\dagger	\forall			•						•				\exists		
1361	Injection Electronics (DME/EML 1.3)	ļ					_		1	†	╁	\dagger	†	†	\dagger	7			•						•				\exists		
1367	Injection Electronics (DME/EML 1.7)									T				Ť	1				•						•	•			\exists	•	
1374	Electronic Throttle Control	•	П						İ	T	1			1	1				•			•							1		
1375	Electronic Throttle Control	•								T		T		1		T			•			•							\dashv		
2460	Electronic Transmission Control (EGS)									T		T	T		T				•										1		
2465	Electronic Transmission Control (EGS/EML)	•											1	T					•												
3231	Memory Steering Column									T		T						•		•									\exists		
3232	Power Steering Column Adjust		П										1	1	T	7													\exists		
3240	Power Assist Steering (Servotronic)														T														\dashv	•	_
3435	Brake Lining Warning	•							1		T		1	1					•			•							\exists		
3450	Antilock Brake System (ABS)	•		:							T	T			1				•										T		
3451	Automatic Stability Control	•							Ī	T	T		T	T	1	T	\exists		•										寸		•
3452	Automatic Stability Plus Traction Control (ASC+T)	•							T	T	"	T		T	\dagger	\top	\exists		•										一		
3715	Electronic Damper Control (EDC)	Γ							T	1		1	•	1	1	7	_												ヿ		
5116	Electronic Mirror								T	\dagger			•	1	†	\top	寸		•					1					寸		
5119	Memory Mirrors		\Box						T	T		1	•		\top	\neg	\dashv	•	•	•									寸		

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