

1991  
BMW 525i, 535i, M5 (E34)  
Electrical  
Troubleshooting  
Manual  
Vehicles Produced 9/90 to 07/91

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**Schematics**

The schematics divide the entire vehicle electrical system into individual circuits. Interacting electrical components are shown on one common schematic.

Switches and other components are represented in such a way that their general layout and function are self-explicit. They are arranged on the sheet such that the current path can be followed from positive (top) to negative (bottom).

**Important:** The components and wires are not drawn to scale. For instance, a lead with a length of over 1m can be shown as a lead which is only a few cm long. To enhance the clarity of the schematics, all connectors and splices between fuses and components as well as between grounds and components have been omitted. If this information should be required, it may be referenced in cells **0670.3 Fuse Details** and **0670.4 Ground Distribution**.

All circuit symbols used are listed and explained in cell **0140.0 Symbols**.

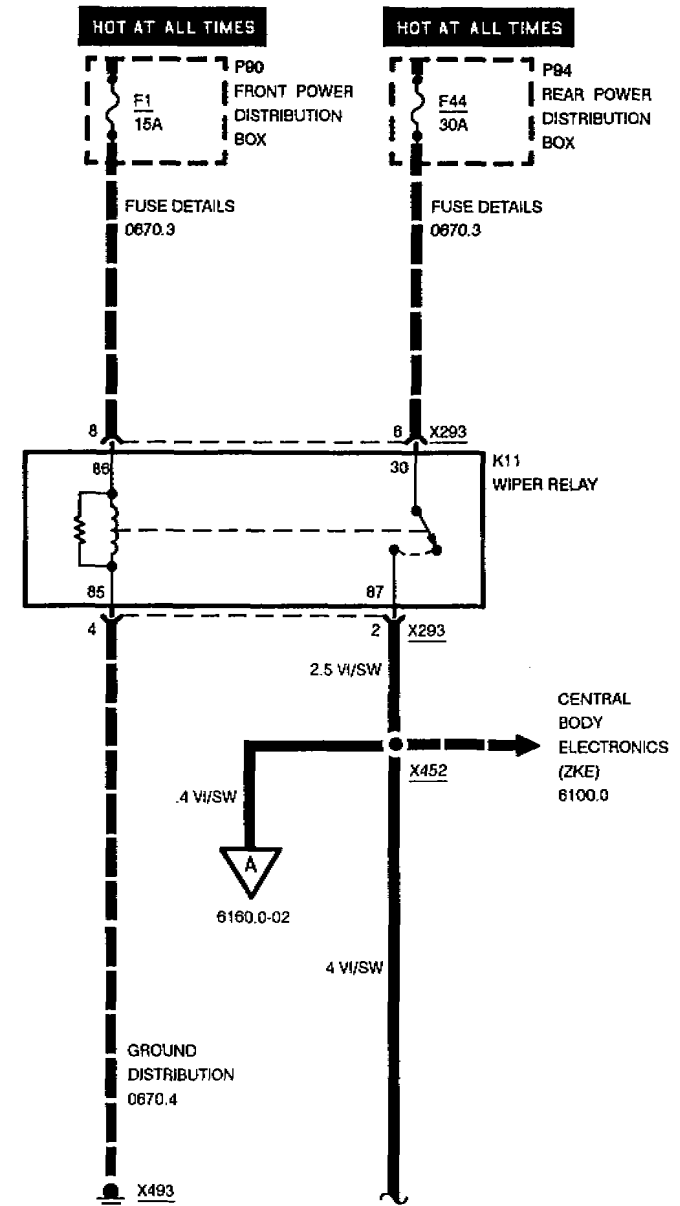
In cell **7000.0 Component Location Chart** all important connectors, ground points and components are listed in tabular form. It provides a precise description of the component locations in the vehicle.

In cell **7100.0 Component Location Views** the locations of the connectors and components which are difficult to locate are shown in photographs. In cell **8500.0 Connector Views** diagrams of all connectors with more than three pins are illustrated.

Included in this ETM are foldout block diagrams. These are overviews of the entire system (EGS, ABS, AC etc.) which helps understand the relationships between various components and control unit of the system being diagnosed.

**Example**

General conventions can be explained based on the following schematic example.

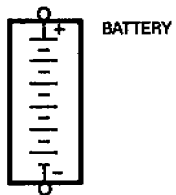


## General Conventions

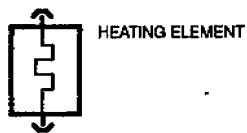
1. Switches and relays are always shown in rest position (e.g. K11).
2. A component shown in a dashed frame signifies that the component is illustrated only in part (e.g. P90 and P91).
3. A component shown in a completely drawn frame signifies that the component is illustrated in full (e.g. K11).
4. The dashed line between pin 8 and pin 6 of connector X293 indicates that both pins belong to connector X293.
5. The dashed line from fuse F1 to pin 8 of connector X293 shows the positive supply of relay K11. If required, refer to cell 0670.3 Fuse Details at fuse F1 for the complete line progressing with plug connections, line branches, wire colors and cross sections.
6. The dashed line with an arrow at splice X452 indicates that several wires lead to splice X452. All lines leading to the connection are illustrated in cell 6100.0 Central Body Electronics (ZKE). An interrupted line with an arrow indicates that only this one wire leads to another circuit.
7. The dashed line from pin 4 of connector X293 to ground X493 shows the ground supply for relay K11. If required, refer to cell 0670.4 Ground Distribution at ground X493 for the complete line progression with all plug connections, line branches, wire colors and cross sections.
8. The interrupted line from splice X452 with an A in the open arrow is continued on page 6160.0-02. Termination of wire 4 VI/SW from splice X452 with a wavy line indicates that the wire is continued on the opposite page.



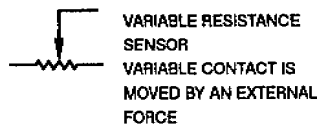
# SYMBOLS



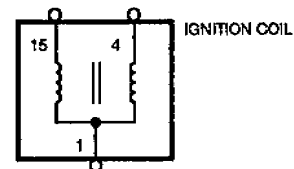
BATTERY



HEATING ELEMENT



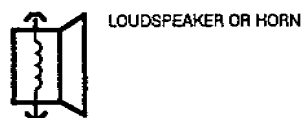
VARIABLE RESISTANCE SENSOR  
VARIABLE CONTACT IS MOVED BY AN EXTERNAL FORCE



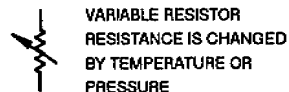
IGNITION COIL



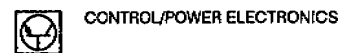
FUSE DETAILS



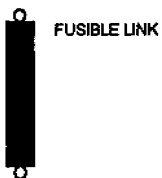
LOUDSPEAKER OR HORN



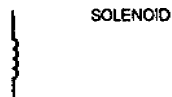
VARIABLE RESISTOR  
RESISTANCE IS CHANGED BY TEMPERATURE OR PRESSURE



CONTROL/POWER ELECTRONICS



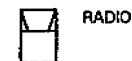
FUSIBLE LINK



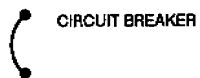
SOLENOID



INDUCTIVE SENSOR



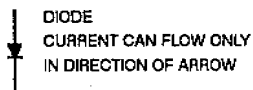
RADIO



CIRCUIT BREAKER



SOLENOID CONTROLLED VALVE OR CLUTCH SOLENOID



DIODE  
CURRENT CAN FLOW ONLY IN DIRECTION OF ARROW



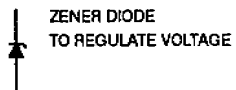
TRANSISTORIZED SWITCH



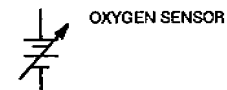
THERMO SWITCH



PERMANENT MAGNET MOTOR ONE SPEED



ZENER DIODE  
TO REGULATE VOLTAGE



OXYGEN SENSOR



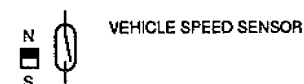
LIGHT



PERMANENT MAGNET MOTOR TWO SPEEDS

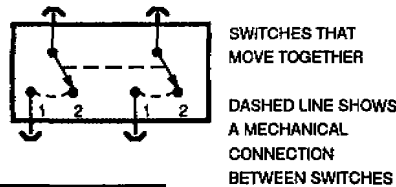
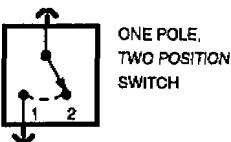
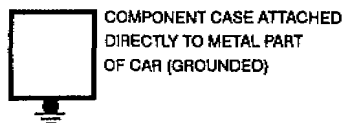
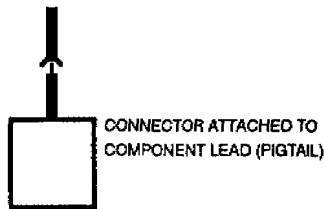
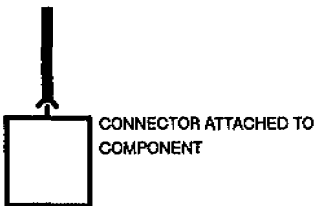
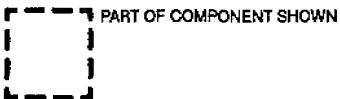


LIGHT EMITTING DIODE

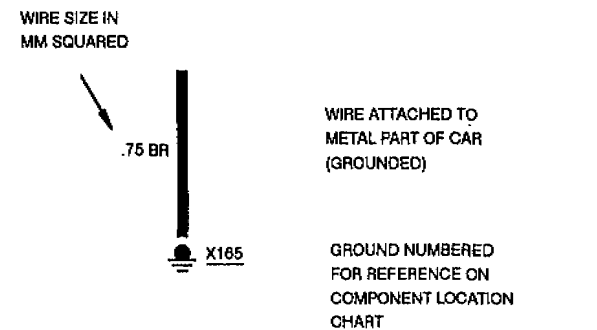
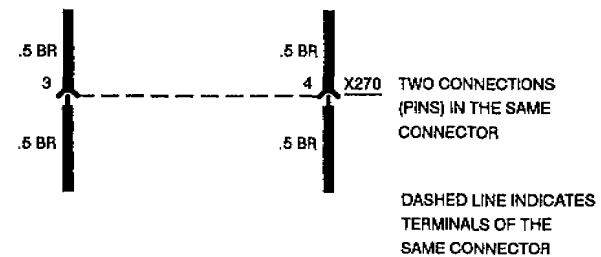
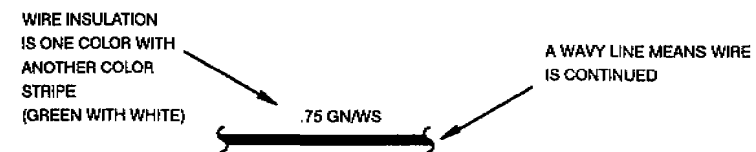
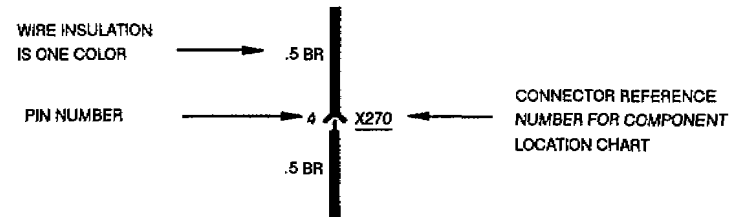


VEHICLE SPEED SENSOR

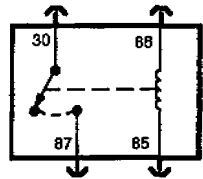
# SYMBOLS



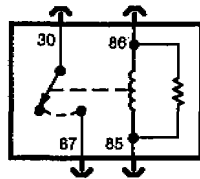
WIRE COLOR	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE
TR	TRANSPARENT



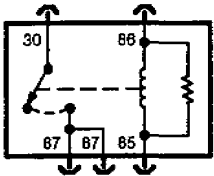
**SYMBOLS**



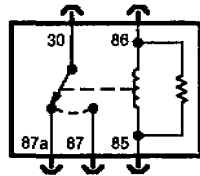
CONTACT RELAY



RELAY WITH RESISTOR ACROSS WINDING

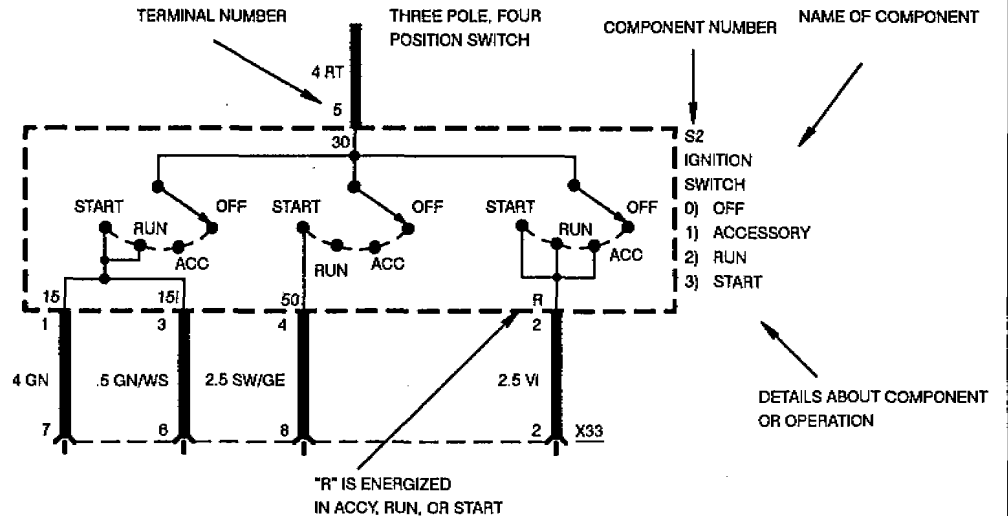


CONTACT RELAY WITH TWO OUTPUTS



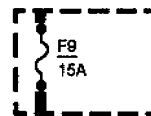
CHANGEOVER RELAY WITH TWO OUTPUTS

TERMINAL NUMBER	DESCRIPTION
30	RELAY INPUT
85	RELAY OUTPUT (WINDING)
86	RELAY INPUT (WINDING)
87	RELAY OUTPUT (ENERGIZED)
87a	RELAY OUTPUT (AT REST)



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

**HOT AT ALL TIMES**



INDICATES THAT FUSE 9 IS SUPPLIED WITH POWER AT ALL TIMES

**POWER STATUS**

**HOT AT ALL TIMES**

**HOT IN RUN AND START**

**HOT IN ACCY, RUN AND START**

**DESCRIPTION**

VOLTAGE: SUPPLIED AT ALL TIMES

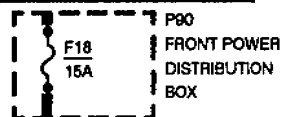
VOLTAGE: IGNITION SWITCH IN RUN OR START

VOLTAGE: IGNITION SWITCH IN ACCESSORY, RUN OR START



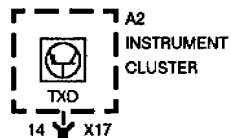
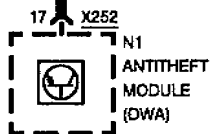
**BMW**  
**5** **SYMBOLS**

**HOT IN ACCY, RUN AND START**



FUSE  
DETAILS  
0670.3

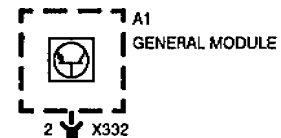
THE COMPLETE WIRE  
PROGRESSION AND FURTHER  
CIRCUITS CONNECTED TO  
FUSE 18 ARE SHOWN IN CELL  
"0670.3 FUSE DETAILS" AT  
FUSE 18



.5 WS/WI

CIRCUIT REFERENCE-  
A WIRE WHICH CONNECTS  
TO ANOTHER CIRCUIT

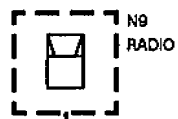
DIAGNOSTIC  
LINK  
0670.5



GROUND  
DISTRIBUTION  
0670.4

THE COMPLETE WIRE  
PROGRESSION AND FURTHER  
CIRCUITS CONNECTED TO  
GROUND X497 ARE SHOWN IN  
CELL "0670.4 GROUND  
DISTRIBUTION" AT  
GROUND X497

X497



2.5 BR

CURRENT PATH IS CONTINUED  
AS LABELED

0670.0-03

0670.0-02

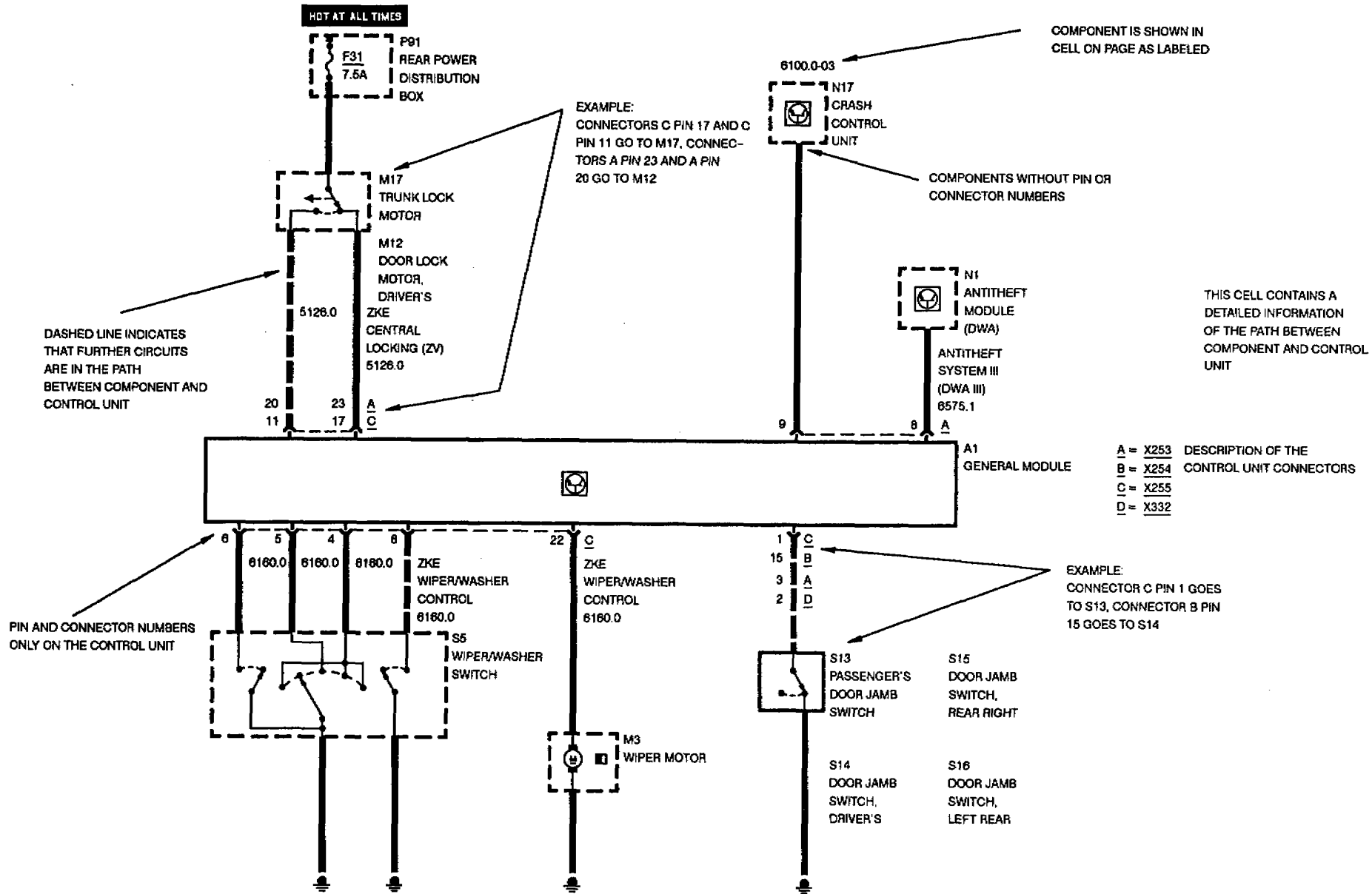
ARROW SHOWS  
DIRECTION OF CURRENT  
FLOW AND IS REPEATED  
WHERE CURRENT  
PATH CONTINUES



2.5 BR

X491

**BMW**  
**5** **SYMBOLS**  
**BLOCK DIAGRAM**

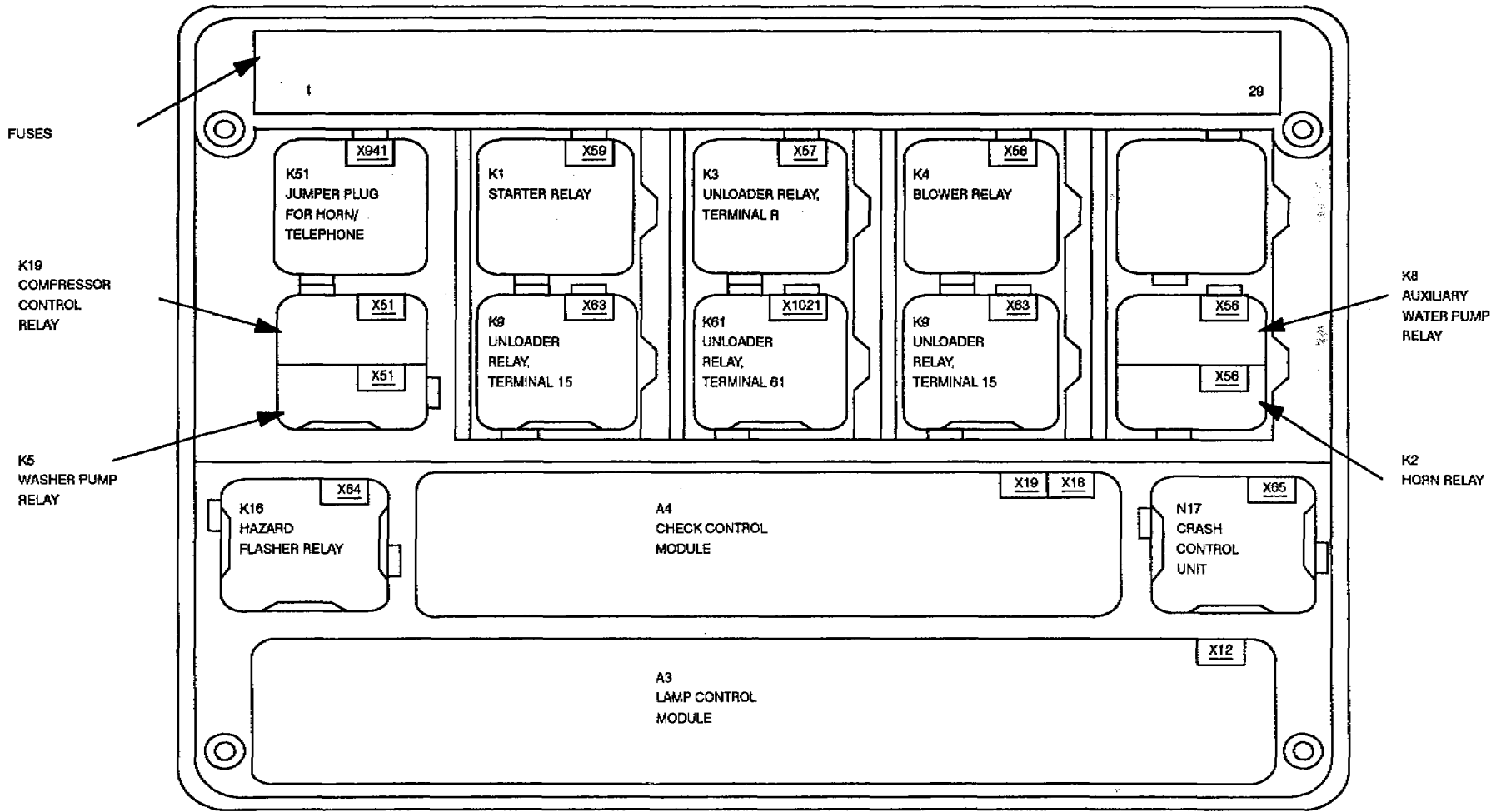




# POWER DISTRIBUTION CHART

## FRONT POWER DISTRIBUTION BOX

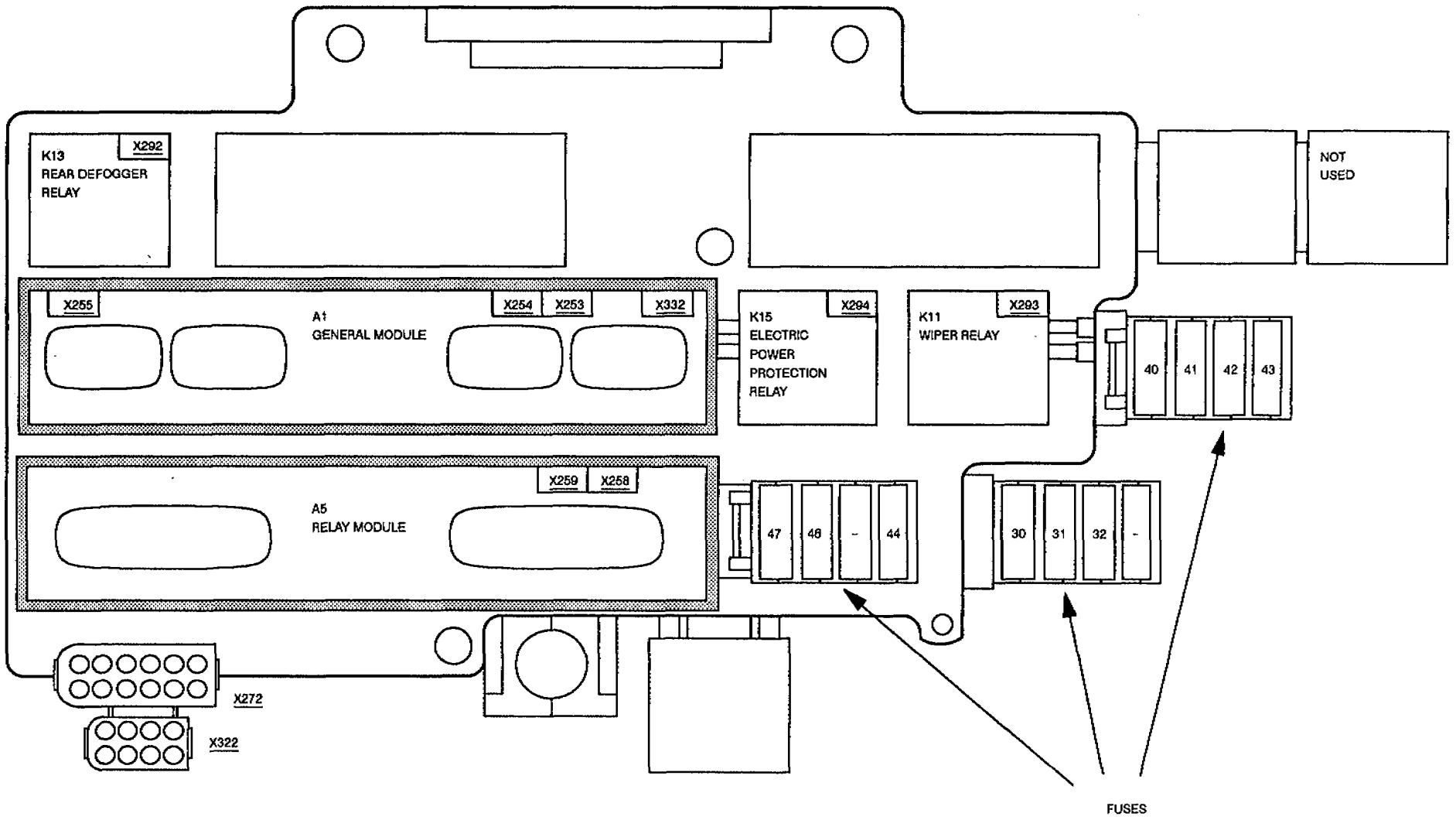
ZKE





# POWER DISTRIBUTION CHART

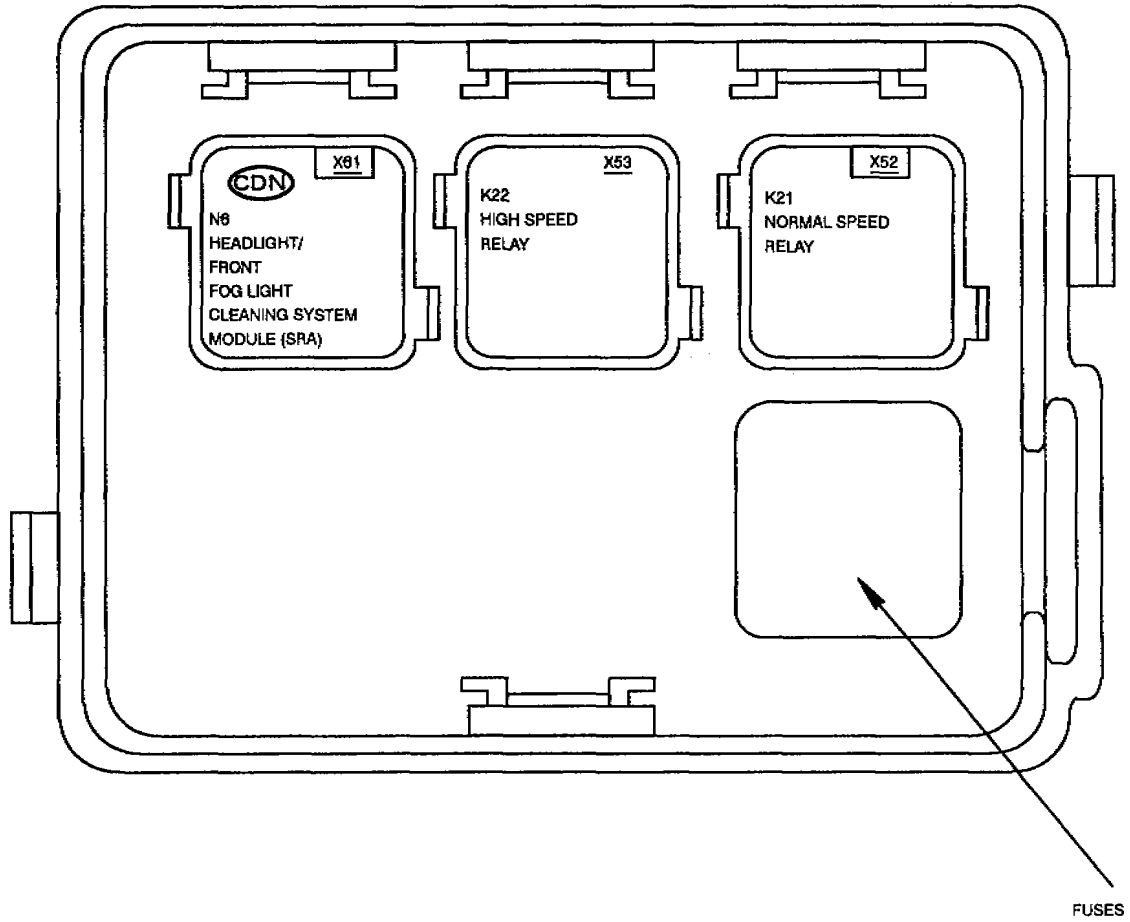
## REAR POWER DISTRIBUTION BOX WITH ZKE





# POWER DISTRIBUTION CHART

## FRONT POWER DISTRIBUTION BOX, AUXILIARY RELAY BOX





# FUSE CHART

		FUSE NUMBER																												
		1	2	3	4	5	6	7	8	9	10	11	12	13	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		15A	7.5A	7.5A	15A	7.5A	7.5A	7.5A	30A	7.5A	15A	30A	10A	10A	30A	15A	10A	30A	30A	7.5A	15A	7.5A
1210.1	DIGITAL ENGINE ELECTRONICS (DME M1.3, 6-CYLINDER M30 WITH EML)																	●						●						
1210.2	DIGITAL ENGINE ELECTRONICS (DME M1.3, 6-CYLINDER M30)																	●						●						
1210.4	DIGITAL ENGINE ELECTRONICS (DME M1.2, 6-CYLINDER S38)																							●						
1210.7	DIGITAL ENGINE ELECTRONICS (DME M3.1, 6-CYLINDER M50)																							●						
1240.0	START																		●											
1270.0	ELECTRONIC THROTTLE CONTROL (EML 6-CYLINDER)	●																	●		●									
1290.0	E-BOX FAN																		●										●	
2460.0	ELECTRONIC TRANSMISSION CONTROL (EGS 4HP-22/24)																		●											
2460.2	ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)																		●											
3240.0	POWER ASSIST STEERING (SERVOTRONIC)																													●
3450.0	ANTILOCK BRAKE SYSTEM (ABS)	●																	●											
3450.1	AUTOMATIC STABILITY CONTROL (ASC)	●																	●											●
5116.0	POWER MIRRORS												●																	
5120.0	ZKE DOOR LOCK HEATING (TSH)																		●											
5126.0	ZKE CENTRAL LOCKING (ZV)																													
5133.0	ZKE POWER WINDOWS (FH)																		●											
5200.0	POWER SEATS																													
5200.1	MEMORY SEATS/ MIRRORS (SM/SPM)												●					●		●										
5203.0	HEATED SEATS																	●												



# FUSE CHART

	FUSE NUMBER																													
	1	2	3	4	5	6	7	8	9	10	11	12	13	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		15A	7.5A	7.5A	15A	7.5A	7.5A	7.5A	30A	7.5A	15A	30A	10A	10A	30A	15A	10A	30A	30A	7.5A	15A	7.5A	
5410.0 ZKE SUNROOF (SHD)																		•												
6100.0 CENTRAL BODY ELECTRONICS (ZKE)			•	•	•													•							•					
6133.0 HORN									•																					
6160.0 ZKE WIPER/WASHER CONTROL	•																								•					
6167.0 ZKE HEADLIGHT WASHER (SRA)			•	•	•													•				•			•					
6169.0 WINDSHIELD WASHER JET HEATERS												•																		
6200.0 INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)	•																	•			•									•
6300.0 LIGHT SWITCH DETAILS		•	•	•	•																									
6301.0 LAMP MONITOR (LKM)	•	•	•	•	•		•				•	•		•	•	•														
6312.0 HEADLIGHTS/ FOG LIGHTS		•	•		•		•				•	•																		
6313.0 TURN/HAZARD LIGHTS		•	•			•																								
6314.0 PARK/TAIL/ UNDERHOOD LIGHTS				•	•										•						•									
6320.0 LICENSE PLATE/ LUGGAGE COMPARTMENT LIGHTS																						•								
6322.0 BACK UP LIGHTS												•																		
6325.0 BRAKE LIGHTS	•														•															
6330.0 ZKE INTERIOR LIGHTS CONTROL (IB)					•													•												
6332.0 GLOVE BOX LIGHT/CIGAR LIGHTER/ CHARGING SOCKET					•														•			•					•			
6350.0 CRASH CONTROL UNIT		•				•					•	•																		
6412.9 PARK VENTILATION WITH IHKR2																					•	•						•		



# FUSE CHART

	FUSE NUMBER																													
	1	2	3	4	5	6	7	8	9	10	11	12	13	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		15A	7.5A	7.5A	15A	7.5A	7.5A	7.5A	30A	7.5A	15A	30A	10A	10A	30A	15A	10A	30A	30A	7.5A	15A	7.5A	
6424.0																														
6450.3									•										•	•								•		•
6454.0																										•				•
6510.0																			•											
6561.0									•									•	•											
6571.0	•																•													
6575.2																		•				•								
6581.0	•																•				•									





# FUSE CHART

		FUSE NUMBER																								
		30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54
		7.5A	7.5A	7.5A								30A	30A	30A	30A	30A		30A	30A							
1210.1	DIGITAL ENGINE ELECTRONICS (DME M1.3, 6-CYLINDER M30 WITH EML)																									
1210.2	DIGITAL ENGINE ELECTRONICS (DME M1.3, 6-CYLINDER M30)																									
1210.4	DIGITAL ENGINE ELECTRONICS (DME M1.2, 6-CYLINDER S38)																									
1210.7	DIGITAL ENGINE ELECTRONICS (DME M3.1, 6-CYLINDER M50)																									
1240.0	START																									
1270.0	ELECTRONIC THROTTLE CONTROL (EML 6-CYLINDER)																									
1290.0	E-BOX FAN																									
2460.0	ELECTRONIC TRANSMISSION CONTROL (EGS 4HP-22/24)																									
2460.2	ELECTRONIC TRANSMISSION CONTROL (EGS A4S 310R)																									
3240.0	POWER ASSIST STEERING (SERVOTRONIC)																									
3450.0	ANTILOCK BRAKE SYSTEM (ABS)																									
3450.1	AUTOMATIC STABILITY CONTROL (ASC)																									
5116.0	POWER MIRRORS																									
5120.0	ZKE DOOR LOCK HEATING (TSH)	●																								
5126.0	ZKE CENTRAL LOCKING (ZV)	●	●																●							
5133.0	ZKE POWER WINDOWS (FH)	●	●																●							
5200.0	POWER SEATS													●	●											
5200.1	MEMORY SEATS/ MIRRORS (SM/SPM)													●												
5203.0	HEATED SEATS											●	●													



# FUSE CHART

		FUSE NUMBER																													
		30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54					
		7.5A	7.5A									30A	30A	30A	30A	30A		30A	30A												
5410.0	ZKE SUNROOF (SHD)	●	●																●												
6100.0	CENTRAL BODY ELECTRONICS (ZKE)	●																	●												
6133.0	HORN																														
6160.0	ZKE WIPER/WASHER CONTROL															●															
6167.0	ZKE HEADLIGHT WASHER (SRA)																														
6169.0	WINDSHIELD WASHER JET HEATERS																														
6200.0	INSTRUMENT CLUSTER/ CHECK CONTROL (K/CC)																														
6300.0	LIGHT SWITCH DETAILS																														
6301.0	LAMP MONITOR (LKM)																														
6312.0	HEADLIGHTS/ FOG LIGHTS																														
6313.0	TURN/HAZARD LIGHTS																														
6314.0	PARK/TAIL/ UNDERHOOD LIGHTS																														
6320.0	LICENSE PLATE/ LUGGAGE COMPARTMENT LIGHTS																														
6322.0	BACK UP LIGHTS																														
6325.0	BRAKE LIGHTS																														
6330.0	ZKE INTERIOR LIGHTS CONTROL (IB)	●																													
6332.0	GLOVE BOX LIGHT/CIGAR LIGHTER/ CHARGING SOCKET																														
6350.0	CRASH CONTROL UNIT																														
6412.9	PARK VENTILATION WITH IHKR2																														

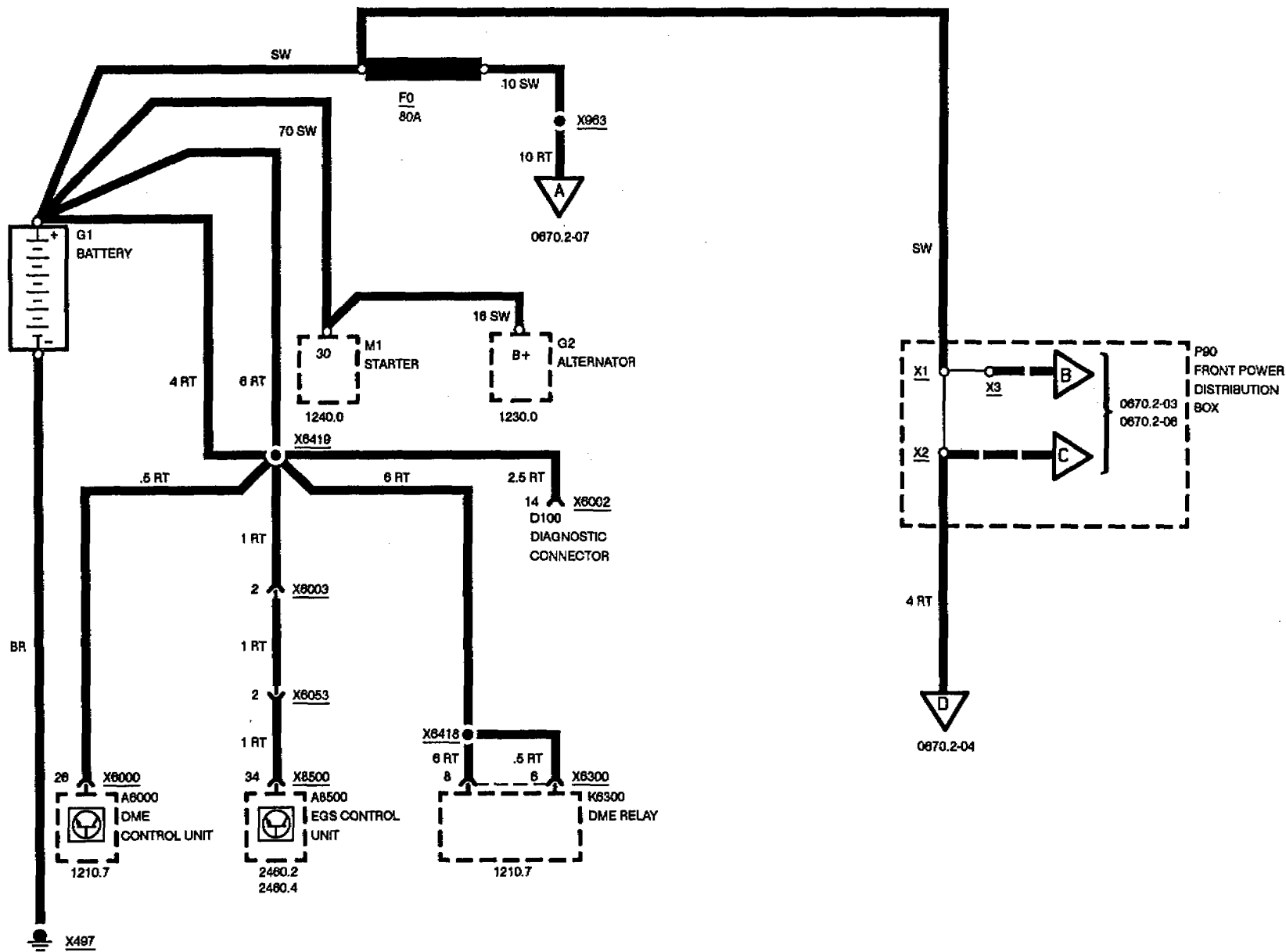


# FUSE CHART

		FUSE NUMBER																									
		30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	
		7.5A	7.5A									30A	30A	30A	30A	30A		30A	30A								
6424.0	REAR WINDOW DEFOGGER																	●									
6450.3	INTEGRATED CLIMATE REGULATION 2 (IHKR2)																										
6454.0	AUXILIARY FAN																										
6510.0	RADIO/ CD PLAYER (PROVISIONS)											●															
6561.0	CELLULAR TELEPHONE (PROVISIONS)	●																									
6571.0	CRUISE CONTROL (TEMPOMAT)																										
6575.2	ANTITHEFT SYSTEM (ALPINE)																		●								
6581.0	ON-BOARD COMPUTER (BCIV)																										

**BMW 5** **POWER DISTRIBUTION**  
**FRONT POWER DISTRIBUTION BOX**

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