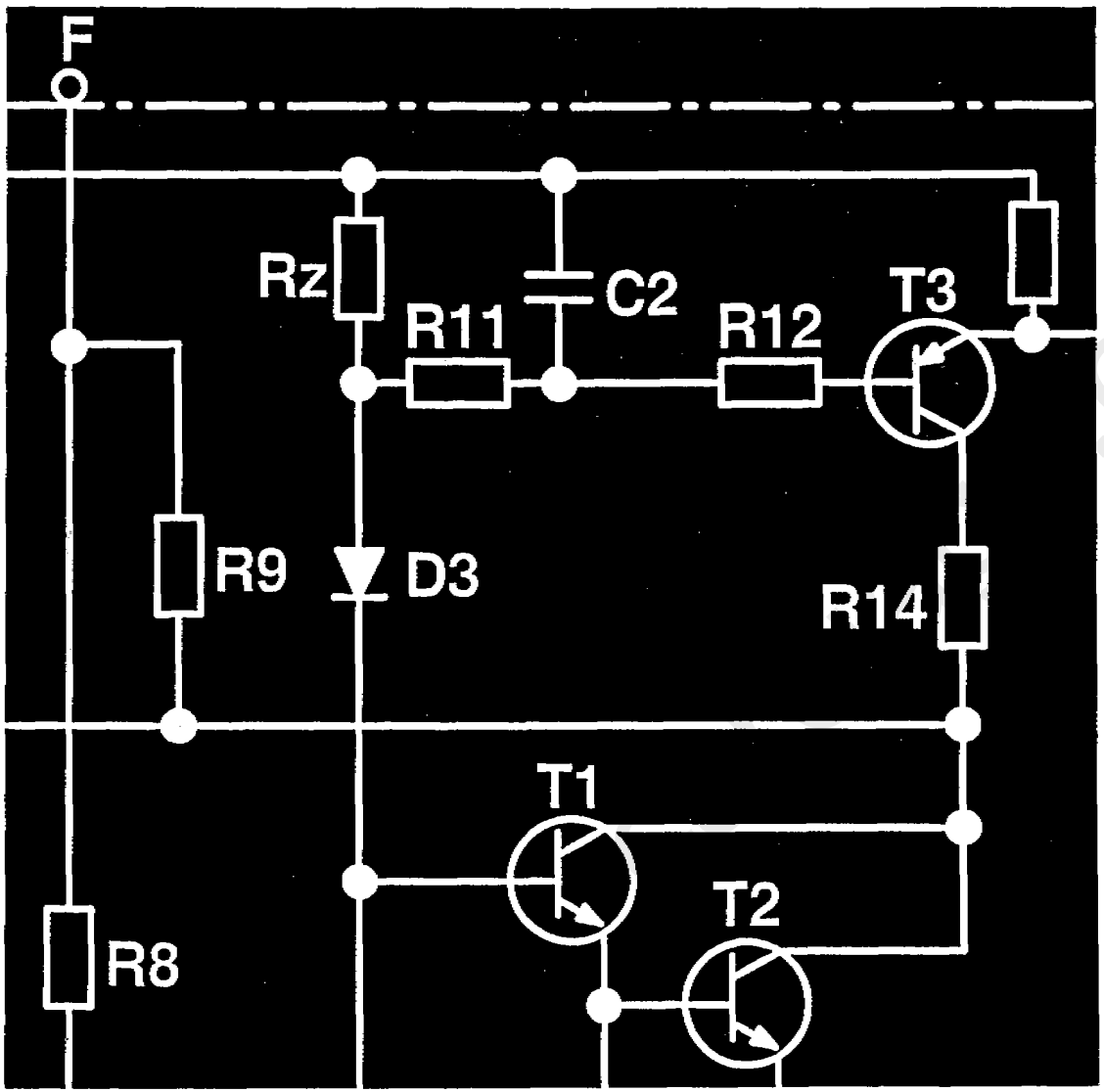


1992 BMW 850i (E31) Electrical Troubleshooting Manual

Vehicles Produced 7/91 to 8/92

PN 01 00 1 467 988

BMW NA

ELECTRICAL TROUBLESHOOTING MANUAL

8 SERIES – E31 (850i)

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SEATBACK POTENTIOMETER, R7 ..... 5200.1-03
SEATBACK RECLINER MOTOR, DRIVER'S, M53 ..... 5200.0-00
SEATBACK RECLINER MOTOR, PASSENGER'S, M58 ..... 5200.0-01
SEATBACK SWITCH, LH DRIVER'S, S104 ..... 6210.0-04
SEATBACK SWITCH, LH PASSENGER'S, S122 ..... 6210.0-04
SEATBACK SWITCH, RH DRIVER'S, S103 ..... 6210.0-04
SEATBACK SWITCH, RH PASSENGER'S, S121 ..... 6210.0-04
SERVOTRONIC CONTROL MODULE, A17 ..... 3240.0-00
SIDE MARKER LIGHT, LEFT REAR, E9021 ..... 0670.4-12
SIDE MARKER LIGHT, RIGHT REAR, E9022 ..... 0670.4-12
SHIFT LOCK, S8522 ..... 2460.0-01
SLIP CONTROL (ABS/ASC) 3450.1
SLIP CONTROL (ABS/ASC+T) 3450.2
SLIP CONTROL MODULE (ABS/ASC), A70 ..... 3450.1
SLIP CONTROL MODULE (ABS/ASC+T), A9070 ..... 3450.2
SPEAKER, RIGHT REAR, H45 ..... 6510.0
SPEED SENSOR - ABS, LEFT FRONT, B2 3450
SPEED SENSOR - ABS, LEFT REAR, B4 3450
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SPEED SENSOR - ABS, RIGHT REAR, B3 3450
SPLICE LOCATION VIEWS 8000.0
START 1240.0
STARTER, M1 ..... 1240.0-01
STARTER RELAY, K1 ..... 1240.0-01
STEERING ANGLE SENDER, B40 ..... 3715.1-01
STEERING COLUMN ADJUST POTENTIOMETER, R18 ..... 3231.1-00
STEERING COLUMN ANGLE ADJUST MOTOR, M83 ..... 3231.0-00
STEERING COLUMN ANGLE ADJUST POTENTIOMETER, R19z 3231.1-00
STEERING COLUMN LENGTH ADJUST MOTOR, M82 ..... 3231.0-00
STEERING COLUMN MEMORY (LSM) 3231.1
SUN BLIND CONTROL MODULE, A82 ..... 5146.0-00
SUN BLIND MOTOR, M74 ..... 5146.0-00
SUN BLIND SWITCH, S110 ..... 5146.0-00
SUNROOF MODULE, A33 ..... 5410.0-01
SUNROOF MOTOR, M24 ..... 5410.0-01
SUNROOF SWITCH, S38 ..... 5410.0-01
SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG) 3234.0
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SUPPRESSION FILTER, C900 ..... 6424.0-01
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TAIL LIGHT, LEFT, H25 ..... 6314.0-04
TAIL LIGHT, RIGHT, H30 ..... 6314.0-04
TAIL LIGHT, UPPER LEFT, H9025 ..... 6314.0-01
TAIL LIGHT, UPPER RIGHT, H9030 ..... 6314.0-01
TELEPHONE TRANSCEIVER, H38 ..... 6561.0-00
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TEMPERATURE SWITCH, B210 ..... 1290.0-00
TEMPERATURE SWITCH, S36 ..... 6454.0-00
THIGH SUPPORT MOTOR, DRIVER'S, M65 ..... 5200.0-02

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THIGH SUPPORT POTENTIOMETER, R15 ..... 5200.1-04
THIGH SUPPORT SWITCH, DRIVER'S, S93 ..... 5200.0-02
THIGH SUPPORT SWITCH, PASSENGER'S, S94 ..... 5200.0-02
THROTTLE CONTROL MODULE (EML), A220 ..... 1270.1
TRANSMISSION CONTROL MODULE (EGS), A8500 ..... 2460.0
TRANSMISSION RANGE LEVER LIGHT, S8515 ..... 2460.0-05
TRANSMISSION RANGE SELECTOR LEVER LIGHT, S8518 ..... 2460.0-03
TRANSMISSION VALVE UNIT, Y8505 ..... 2460.0-02
TRUNK LID LIGHT, E33 ..... 6320.0-03
TRUNK LID LIGHT, LEFT, E9033 ..... 6320.0-03
TRUNK LID LIGHT, RIGHT, E9133 ..... 6320.0-03
TRUNK LID LOCKING SWITCH, S117 ..... 5126.0-01
TRUNK LID SWITCH, S61 ..... 6320.0-03
TRUNK LOCK MOTOR, M17 ..... 5126.0-02
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TURN LIGHT, LEFT REAR, H6 ..... 6313.0-02
TURN LIGHT, RIGHT FRONT, H4 ..... 6313.0-02
TURN LIGHT, RIGHT REAR, H5 ..... 6313.0-02
TURN/HAZARD LIGHTS 6313.0
UNDERHOOD LIGHT, E20 ..... 6314.0-04
UNDERHOOD LIGHT SWITCH, S19 ..... 6314.0-04
UNLOADER RELAY, TERMINAL 15, K9 ..... 0670.2-04
UNLOADER RELAY, TERMINAL 61, K61 ..... 1230.0-00
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VEHICLE SPEED SENSOR, B10 ..... 6210.0-08
VENTILATION FLAP MOTOR, RIGHT, M33 ..... 6450.0-08
VENTILATION FLAP MOTOR, LEFT, M38 ..... 6450.0-09
WASHER FLUID LEVEL SWITCH, S64 ..... 6210.0-06
WASHER FLUID LEVEL SWITCH, S136 ..... 6210.0-06
WASHER JET HEATER, LEFT, E51 ..... 6169.0-00
WASHER JET HEATER, RIGHT, E52 ..... 6169.0-00
WASHER PUMP, M4 ..... 6160.0-02
WASHER PUMP RELAY, K5 ..... 6160.0-02
WATER PUMP, M37 ..... 6450.0-11
WATER PUMP IN LUGGAGE COMPARTMENT, M86 ..... 6167.0-02
WATER VALVE ASSEMBLY, Y4 ..... 6450.0-02
WINDOW LIMIT SWITCH, LEFT REAR, S45 ..... 5133.0-04
WINDOW LIMIT SWITCH, RIGHT REAR, S46 ..... 5133.0-04
WINDOW MOTOR, DRIVER'S, M21 ..... 5133.0-01
WINDOW MOTOR, LEFT REAR, M20 ..... 5133.0-04
WINDOW MOTOR, PASSENGER'S, M23 ..... 5133.0-03
WINDOW MOTOR, RIGHT REAR, M22 ..... 5133.0-04
WINDOW SWITCH, PASSENGER'S, S97 ..... 5133.0-02
WINDSHIELD WASHER JET HEATERS 6169.0
WIPER MOTOR, M3 ..... 6160.0-01
WIPER PRESSURE CONTROL (ADV) RELAY, K12 ..... 6164.0-01
WIPER PRESSURE CONTROL MOTOR (ADV), M6 ..... 6164.0-01
WIPER RELAY I, K36 ..... 6160.0-01
WIPER RELAY II, K37 ..... 6160.0-01
WIPER RELAY III, K38 ..... 6160.0-01
WIPER/WASHER SWITCH, S5 ..... 6160.0-00
ZKE CENTRAL LOCKING (ZV) 5126.0
ZKE DOOR LOCK HEATING (TSH) 5120.0
ZKE HEADLIGHT WASHER (SRA) 6167.0
ZKE INTERIOR LIGHTS (IB) 6330.0
ZKE POWER WINDOWS (FH) 5133.0
ZKE SUNROOF (SHD) 5410.0
ZKE WINDSHIELD WIPER PRESSURE CONTROL (ADV) 6164.0

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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 that is only a few cm long. To ensure clear arrangement , all connectors, lines branches and connected components from the fuses to the component and from the component to ground connection are not shown within the individual cells. If required, reference can be made to cells 0670.3 Fuse Details and 0670.4 Ground Distribution where all lines are illustrated with all plug connections, line branches and connected components.

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

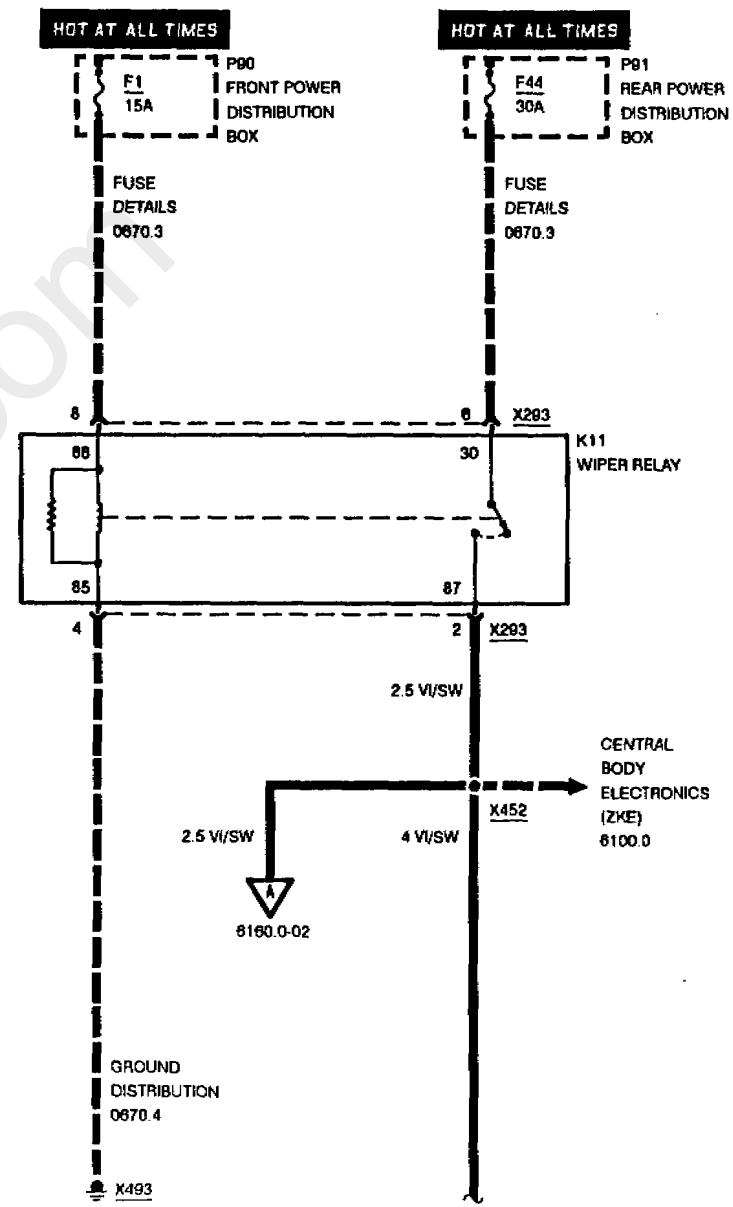
In cell **7000.0 Component Location Chart** all important connectors, ground points and components are listed in tabular form. It provides a precise description of the component locations in the vehicle.

In cell **7100.0 Component Location Views** the location of connectors and components which are difficult to locate are shown in line arts or illustrations. In cell **8000.0 Splice Location Views** all splices are listed in numerical order and illustrations are provided to assist in locating splices on larger harnesses. In cell **8500.0 Connector Views** diagrams of connectors with more than 2 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.



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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.

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SYMBOLS


BATTERY


FUSE DETAILS


FUSIBLE LINK


CIRCUIT BREAKER

SOLENOID


SOLENOID CONTROLLED VALVE
OR CLUTCH SOLENOID


HEATING ELEMENT


LOUDSPEAKER OR HORN


LIGHT


PERMANENT MAGNET MOTOR
ONE SPEED


PERMANENT MAGNET MOTOR
TWO SPEEDS


VARIABLE RESISTANCE
SENSOR
VARIABLE CONTACT IS
MOVED BY AN EXTERNAL
FORCE


VARIABLE RESISTOR
RESISTANCE IS CHANGED
BY TEMPERATURE OR
PRESSURE

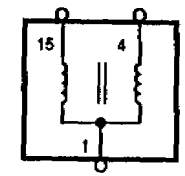


INDUCTIVE SENSOR


DIODE
CURRENT CAN FLOW ONLY
IN DIRECTION OF ARROW


ZENER DIODE
TO REGULATE VOLTAGE


LIGHT EMITTING DIODE



IGNITION COIL


CONTROL/POWER ELECTRONICS


RADIO



TRANSISTORIZED SWITCH

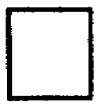

OXYGEN SENSOR



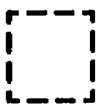
VEHICLE SPEED SENSOR

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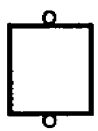
SYMBOLS



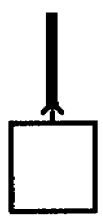
ENTIRE COMPONENT SHOWN



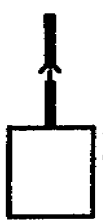
PART OF COMPONENT SHOWN



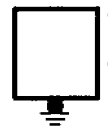
COMPONENT WITH SCREW TERMINALS



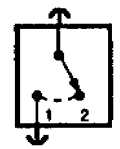
CONNECTOR ATTACHED TO COMPONENT



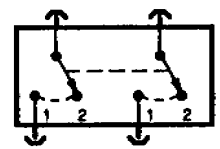
CONNECTOR ATTACHED TO COMPONENT LEAD (PIGTAIL)



COMPONENT CASE ATTACHED DIRECTLY TO METAL PART OF CAR (GROUNDED)



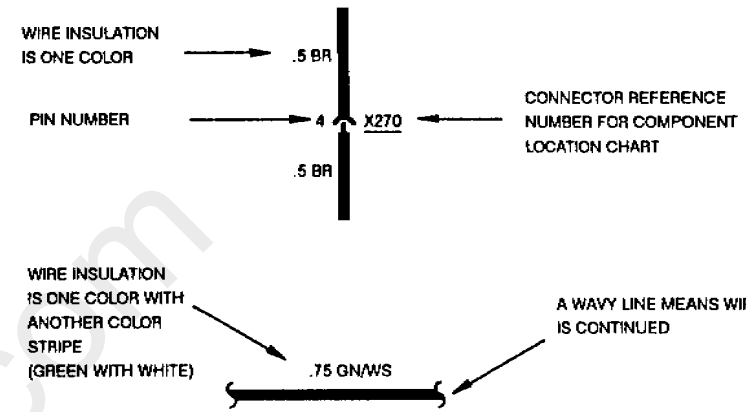
ONE POLE, TWO POSITION SWITCH

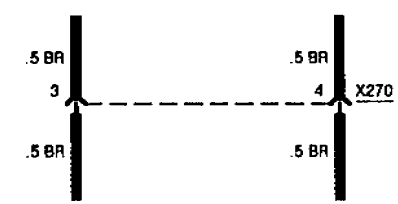


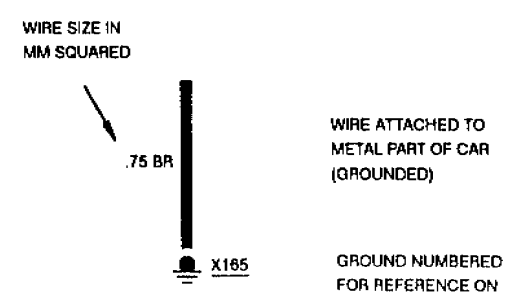
SWITCHES THAT MOVE TOGETHER

DASHED LINE SHOWS A MECHANICAL CONNECTION BETWEEN SWITCHES

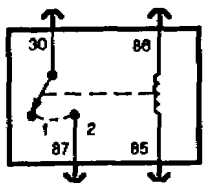
WIRE COLOR	
BL	BLUE
BR	BROWN
GE	YELLOW
GN	GREEN
GR	GRAY
OR	ORANGE
RS	PINK
RT	RED
SW	BLACK
VI	VIOLET
WS	WHITE
TR	TRANSPARENT



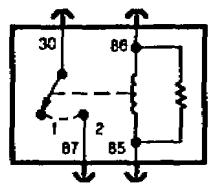




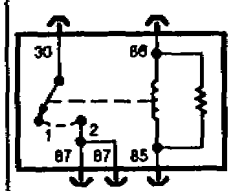
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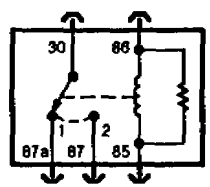
CONTACT RELAY



RELAY WITH RESISTOR ACROSS WINDING

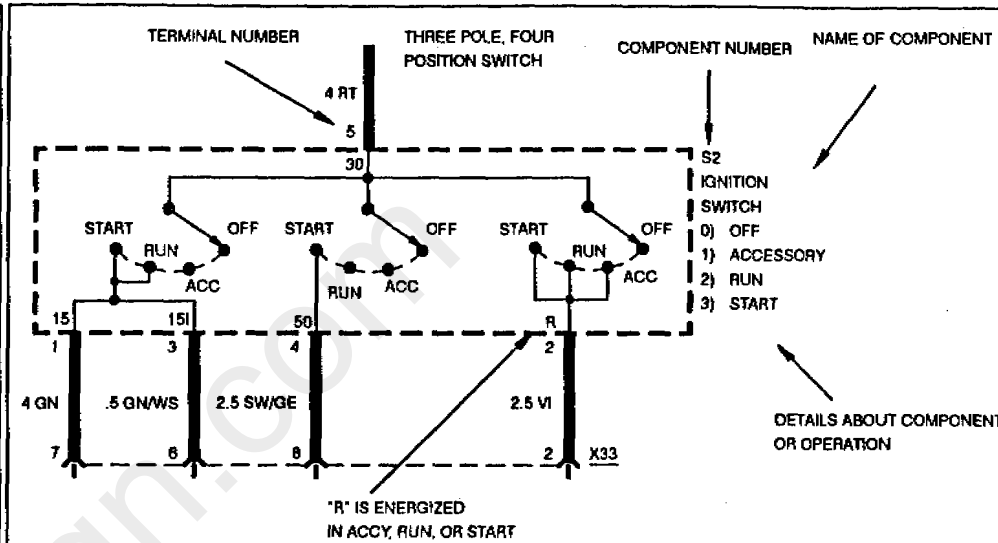


CONTACT RELAY WITH TWO OUTPUTS

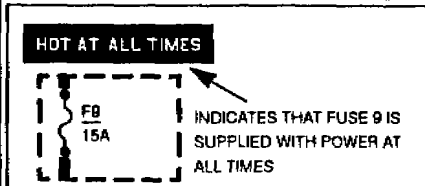


CHANGEOVER RELAY WITH TWO OUTPUTS

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



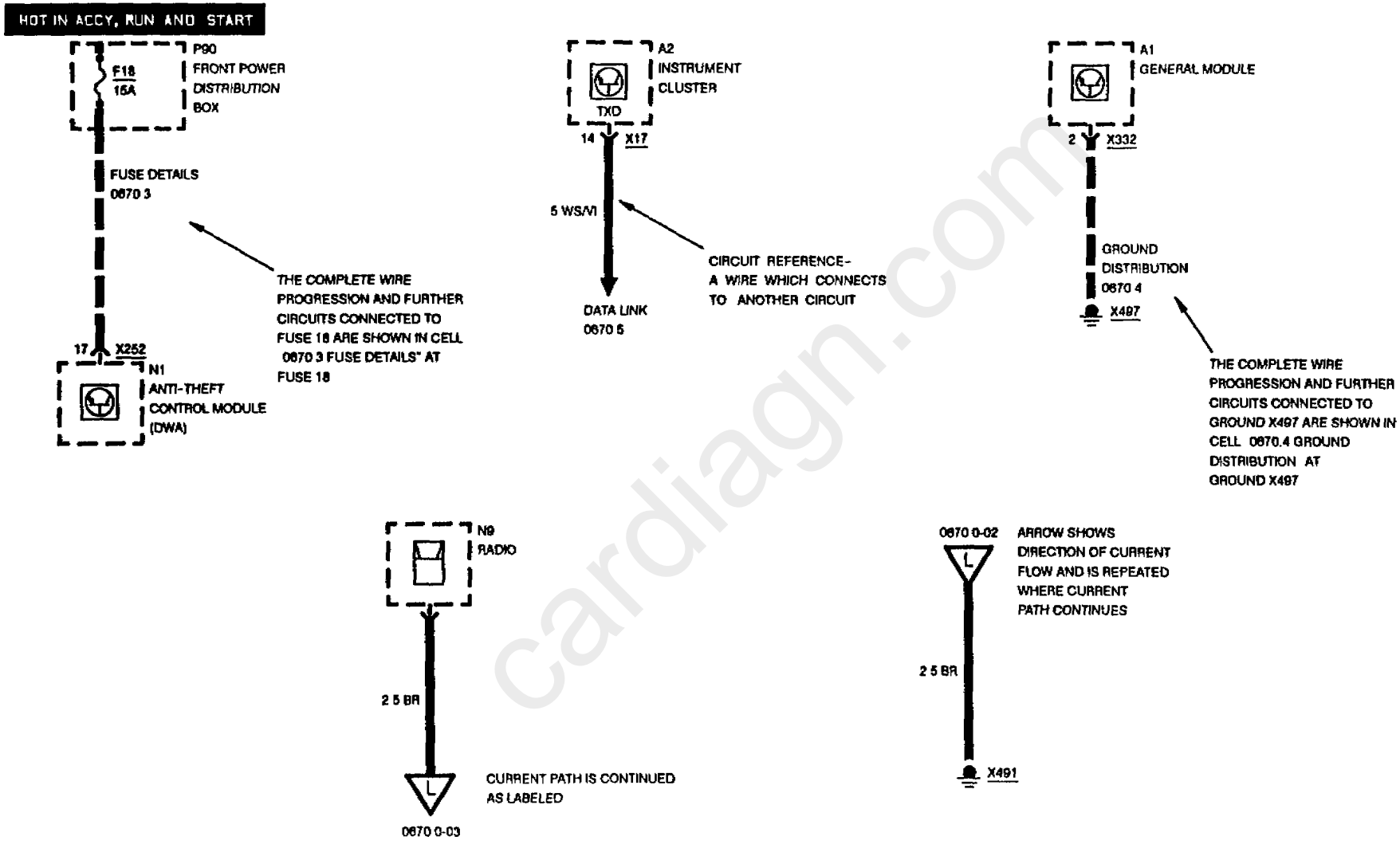
TERMINAL NUMBER	DESCRIPTION	TERMINAL NUMBER	DESCRIPTION
50	VOLTAGE: IGNITION SWITCH IN START	15I	VOLTAGE: IGNITION SWITCH IN RUN
30	VOLTAGE: SUPPLIED AT ALL TIMES	R	VOLTAGE: IGNITION SWITCH IN ACCESSORY, RUN OR START
15	VOLTAGE: IGNITION SWITCH IN RUN OR START	31	GROUND



POWER STATUS	DESCRIPTION
HOT AT ALL TIMES	VOLTAGE: SUPPLIED AT ALL TIMES
HOT IN RUN AND START	VOLTAGE: IGNITION SWITCH IN RUN OR START
HOT IN ACCY, RUN AND START	VOLTAGE: IGNITION SWITCH IN ACCESSORY, RUN OR START

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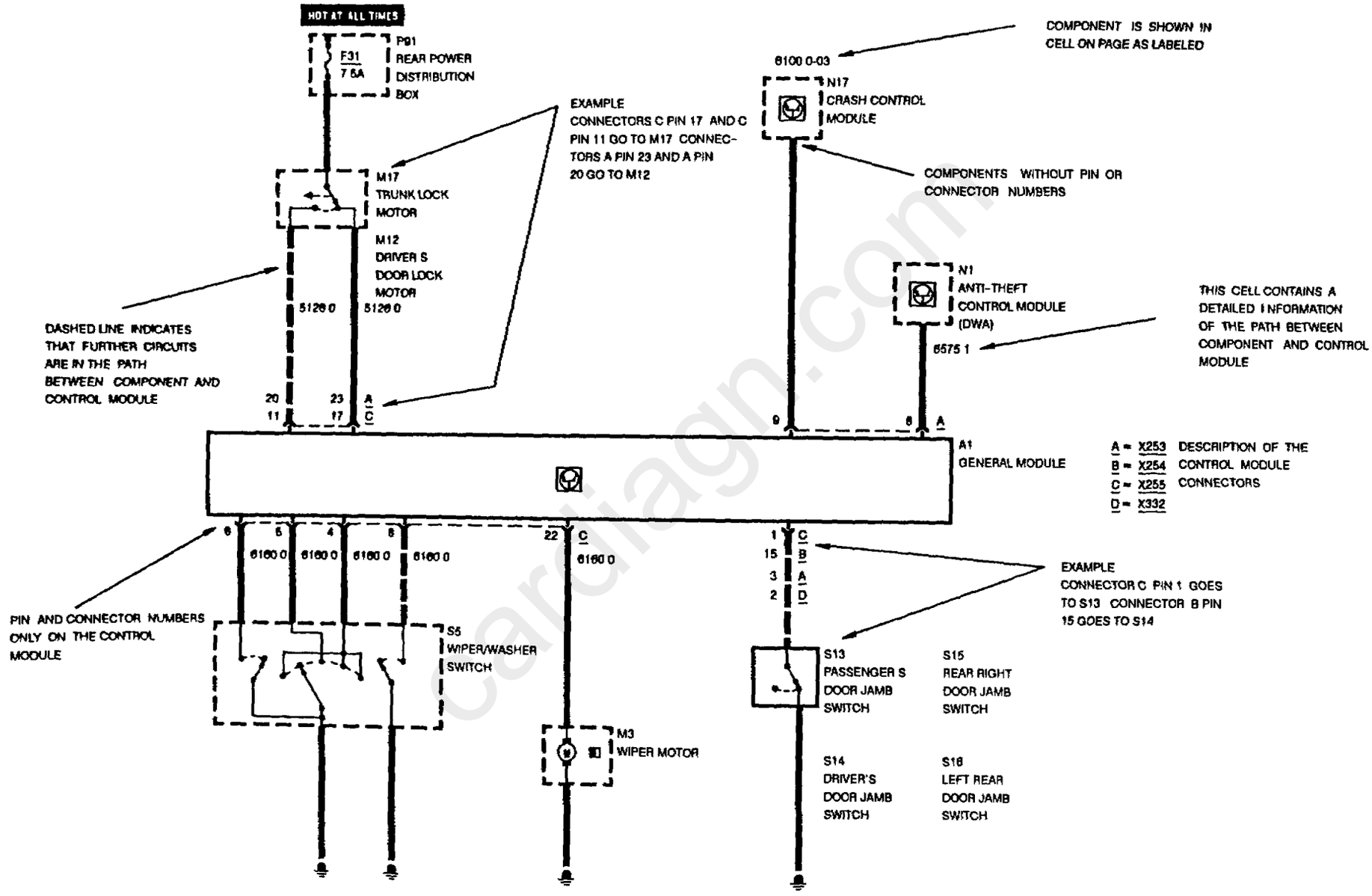
SYMBOLS



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SYMBOLS

BLOCK DIAGRAM

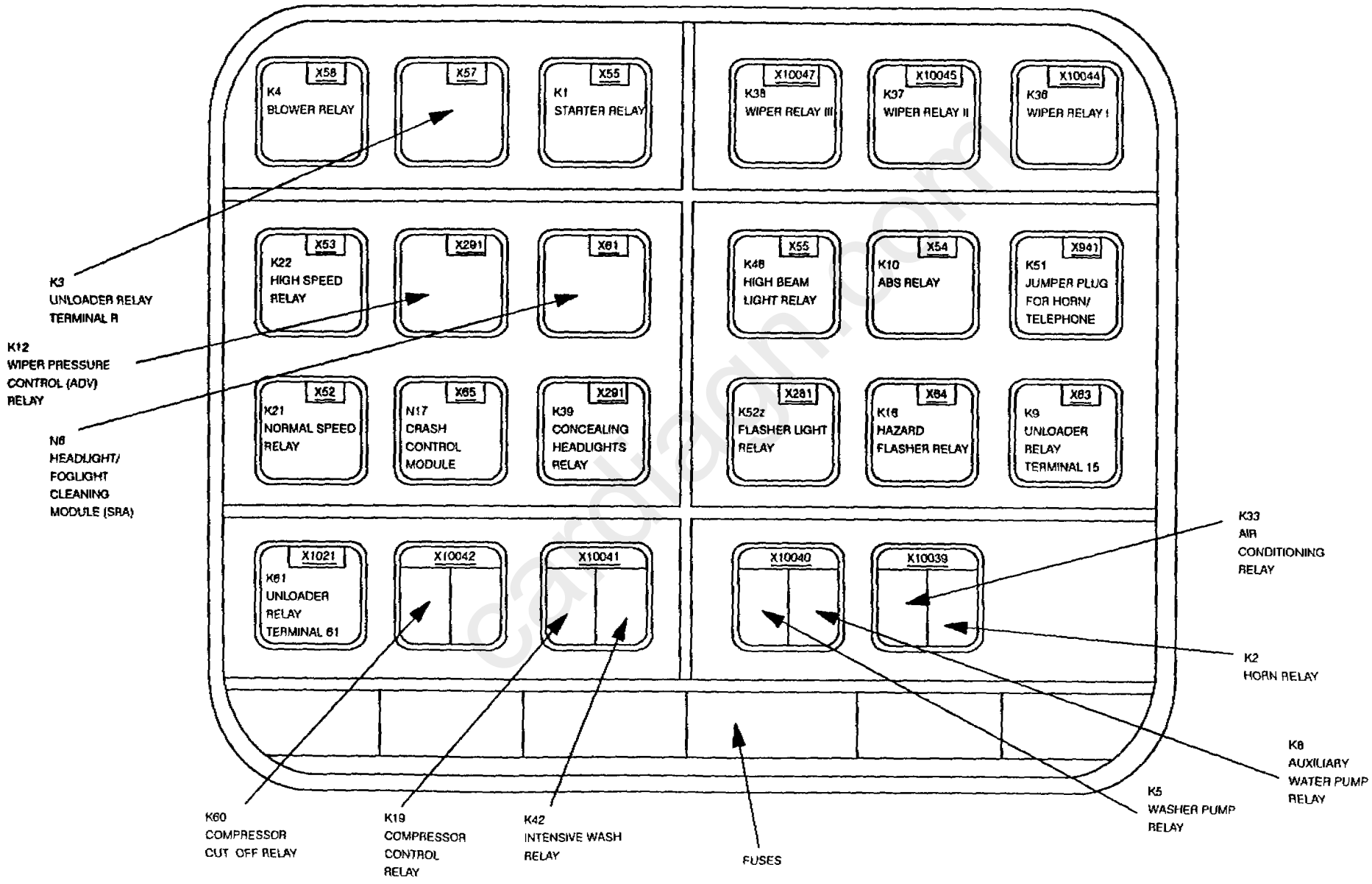


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POWER DISTRIBUTION CHART

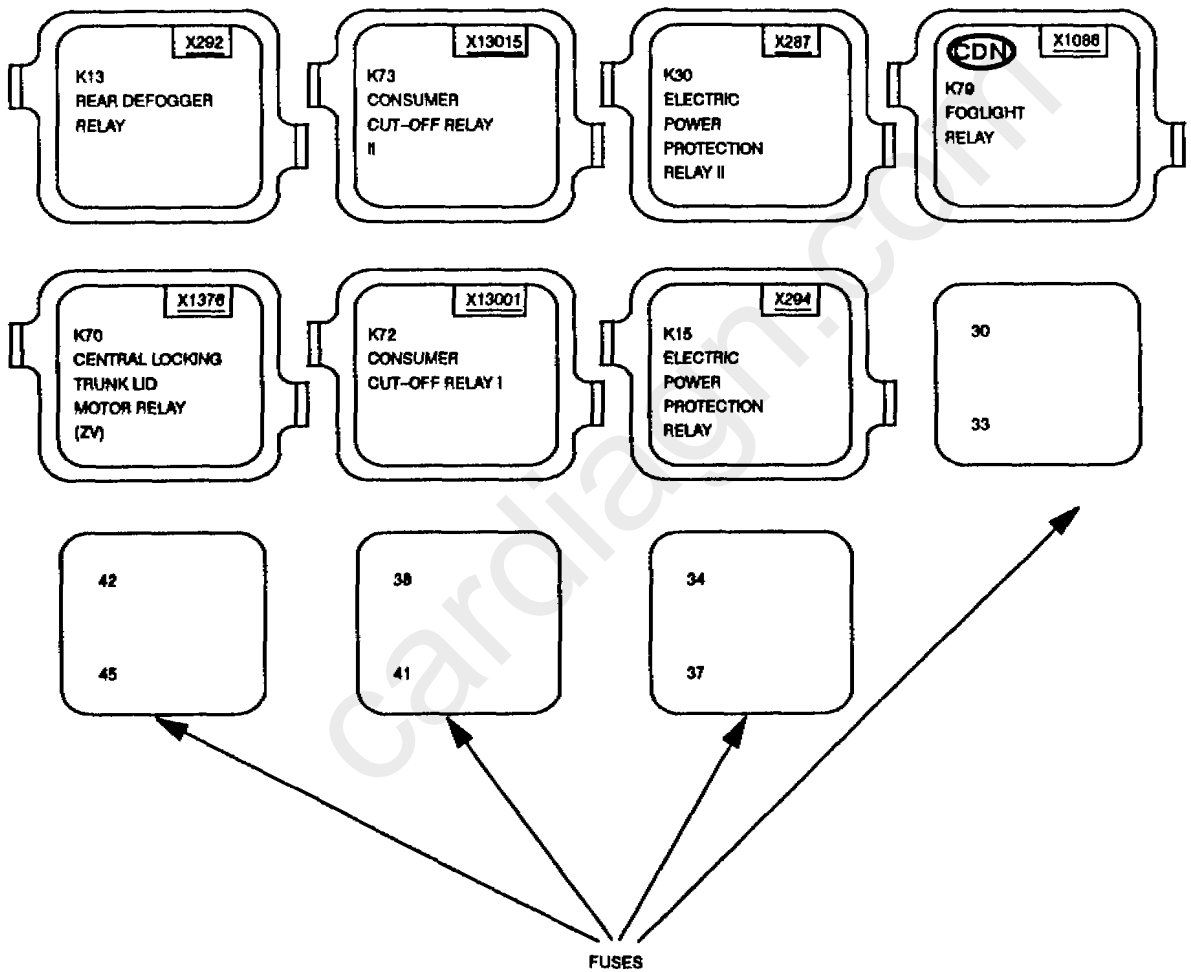
FRONT POWER DISTRIBUTION BOX



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POWER DISTRIBUTION CHART

REAR POWER DISTRIBUTION BOX



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FUSE CHART

FUSES 1 TO 29

		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
		7.5A	7.5A	7.5A	7.5A	10A	15A	30A	7.5A	20A	7.5A	7.5A	15A	7.5A	7.5A	10A	20A	7.5A	7.5A	30A	30A	7.5A	30A	15A	15A	30A	15A	30A	15A	7.5A
1210.6	ENGINE CONTROL SYSTEM (DME M1.7, 12-CYLINDER M70)												●											●	●				●	
1230.0	CHARGING SYSTEM																	●												
1240.0	START												●																	
1270.1	ELECTRONIC THROTTLE CONTROL (EML 12-CYLINDER)	●							●				●																	
1290.0	E-BOX FAN																													
2460.0	ELECTRONIC TRANSMISSION CONTROL (EGS)								●				●																	
3231.0	ELECTRIC STEERING COLUMN ADJUSTMENT																													
3231.1	STEERING COLUMN MEMORY (LSM)																●		●											
3234.0	SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)																													
3240.0	POWER ASSIST STEERING (SERVOTRONIC)																												●	
3450.1	SLIP CONTROL (ABS/ASC)								●									●												●
3450.2	SLIP CONTROL (ABS/ASC+T)								●									●												
3715.1	ELECTRONIC SHOCK ABSORBER CONTROL III+ (EDC III+)																													●
5116.0	POWER MIRRORS												●					●	●											
5120.0	ZKE DOOR LOCK HEATING (TSH)																													
5126.0	ZKE CENTRAL LOCKING (ZV)																													
5133.0	ZKE POWER WINDOWS (FH)																													●
5146.0	POWER SUN SHADES																		●											
5200.0	POWER SEATS																													

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FUSE CHART

FUSES 1 TO 29

		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
		7.5A	7.5A	7.5A	7.5A	10A	15A	30A	7.5A	20A	7.5A	7.5A	15A	7.5A	7.5A	10A	20A	7.5A	7.5A	30A	30A	7.5A	30A	15A	15A	30A	15A	30A	15A	7.5A
5200.1	SEAT/MIRROR MEMORY SYSTEM (SM/SPM)												●				●	●	●											
5203.0	HEATED SEATS																●													
5212.0	LUMBAR SUPPORT																													
5410.0	ZKE SUNROOF (SHD)															●														●
6100.0	CENTRAL BODY ELECTRONICS (ZKE II)															●														●
6133.0	HORN									●																				
6160.0	ZKE WIPER/WASHER CONTROL	●														●							●							●
6164.0	ZKE WINDSHIELD WIPER PRESSURE CONTROL (ADV)									●						●														●
6167.0	ZKE HEADLIGHT WASHER (SRA)		●													●												●		●
6169.0	WINDSHIELD WASHER JET HEATERS												●																	
6210.0	BODY ELECTRONICS MODULE (EKM)												●					●	●											
6211.0	INSTRUMENT CLUSTER	●											●					●	●											
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																	●												

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FUSE CHART

FUSES 1 TO 29

		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
		7.5A	7.5A	7.5A	7.5A	10A	15A	30A	7.5A	20A	7.5A	7.5A	15A	7.5A	7.5A	10A	20A	7.5A	7.5A	30A	30A	7.5A	30A	15A	15A	30A	15A	30A	15A	7.5A
6325.0	BRAKE LIGHTS			●					●																					
6330.0	ZKE INTERIOR LIGHTS (IB)															●														
6332.0	GLOVE COMPARTMENT LIGHT/ CIGAR LIGHTER/ CHARGING SOCKET		●	●	●	●																								
6350.0	CRASH CONTROL MODULE						●																							
6424.0	REAR WINDOW DEFOGGER/ ANTENNA																					●								
6450.0	AUTOMATIC HEATING/AC CONTROL (IHKA)	●																		●		●								●
6454.0	AUXILIARY FAN																									●				●
6510.1	RADIO/HIFI																		●											
6561.0	CELLULAR TELEPHONE (PROVISIONS)									●									●											
6575.1	ANTI-THEFT SYSTEM III (DWA III)																	●	●											
6581.0	MULTI- INFORMATION DISPLAY (MID)																	●	●											
6610.0	INFRARED LOCKING (IRS) NOT INSTALLED IN U.S. VEHICLES																	●	●											

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FUSE CHART

FUSES 30 TO 43

		FUSE NUMBER													
		30	31	32	33	34	36	37	38	39	40	41	42	43	
		15A	7.5A	20A	7.5A	30A	15A	30A	30A	30A	15A	30A	30A	10A	
1210.6	ENGINE CONTROL SYSTEM (DME M1.7, 12-CYLINDER M70)														
1230.0	CHARGING SYSTEM														
1240.0	START														
1270.1	ELECTRONIC THROTTLE CONTROL (EML 12-CYLINDER)														
1290.0	E-BOX FAN														
2460.0	ELECTRONIC TRANSMISSION CONTROL (EGS)														
3231.0	ELECTRIC STEERING COLUMN ADJUSTMENT										●				
3231.1	STEERING COLUMN MEMORY (LSM)										●				
3234.0	SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)														
3240.0	POWER ASSIST STEERING (SERVOTRONIC)														
3450.1	SLIP CONTROL (ABS/ASC)														
3450.2	SLIP CONTROL (ABS/ASC+T)														
3715.1	ELECTRONIC SHOCK ABSORBER CONTROL III+ (EDC III+)			●											
5116.0	POWER MIRRORS														
5120.0	ZKE DOOR LOCK HEATING (TSH)													●	
5126.0	ZKE CENTRAL LOCKING (ZV)		●		●	●							●	●	
5133.0	ZKE POWER WINDOWS (FH)		●		●	●							●	●	
5146.0	POWER SUN SHADES			●											
5200.0	POWER SEATS							●	●						

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FUSE CHART

FUSES 30 TO 43

		FUSE NUMBER													
		30	31	32	33	34	36	37	38	39	40	41	42	43	
		15A	7.5A	20A	7.5A	30A	15A	30A	30A	30A	15A	30A	30A	10A	
5200.1	SEAT/MIRROR MEMORY SYSTEM (SM/SPM)							●							
5203.0	HEATED SEATS														
5212.0	LUMBAR SUPPORT							●	●						
5410.0	ZKE SUNROOF (SHD)		●		●	●							●	●	
6100.0	CENTRAL BODY ELECTRONICS (ZKE II)		●		●	●							●	●	
6133.0	HORN														
6160.0	ZKE WIPER/WASHER CONTROL		●		●	●							●	●	
6164.0	ZKE WINDSHIELD WIPER PRESSURE CONTROL (ADV)														
6167.0	ZKE HEADLIGHT WASHER (SRA)														
6169.0	WINDSHIELD WASHER JET HEATERS														
6210.0	BODY ELECTRONICS MODULE (EKM)		●		●										
6211.0	INSTRUMENT CLUSTER		●												
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														

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FUSE CHART

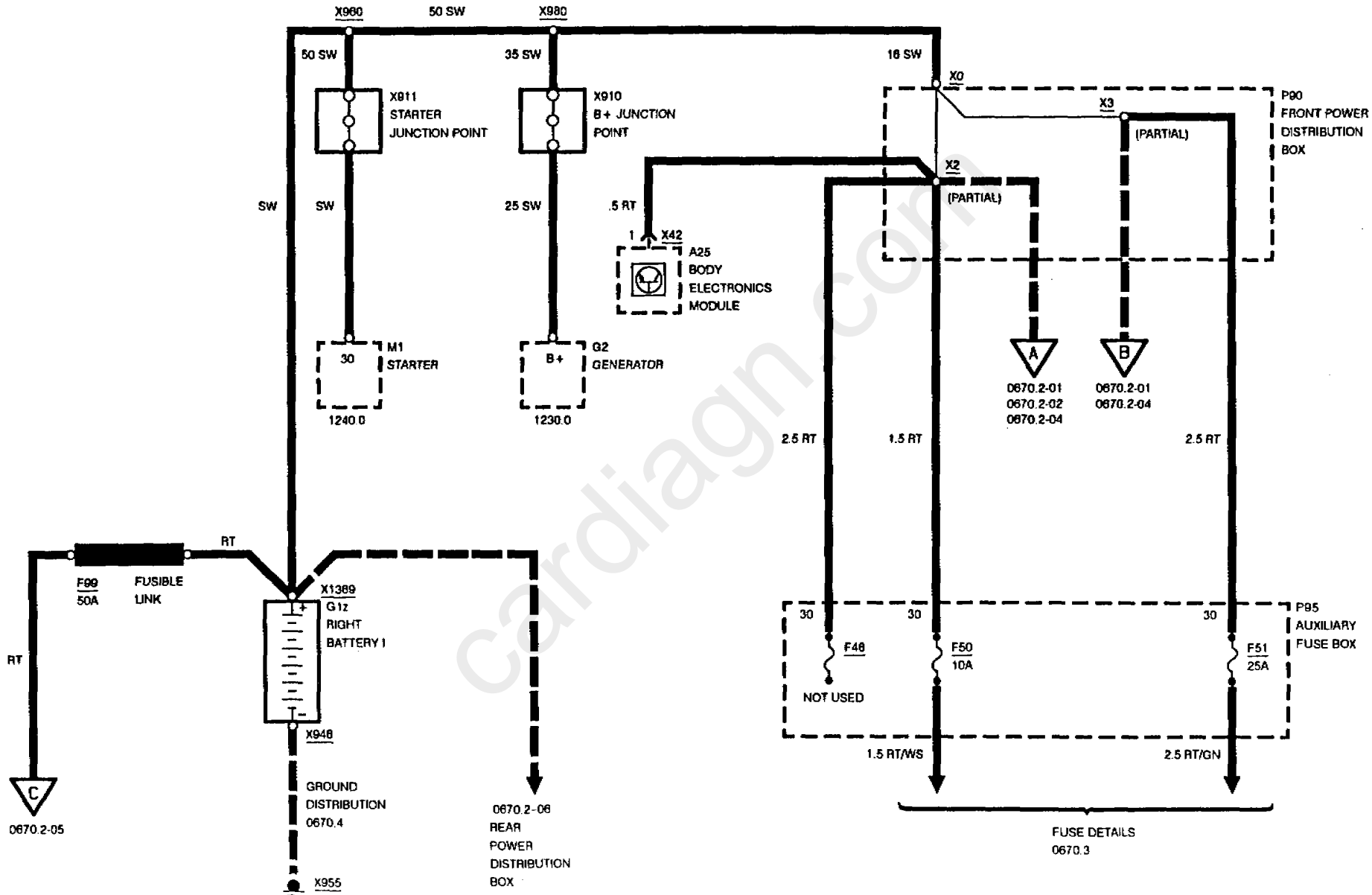
FUSES 30 TO 43

		FUSE NUMBER													
		30	31	32	33	34	36	37	38	39	40	41	42	43	
		15A	7.5A	20A	7.5A	30A	15A	30A	30A	30A	15A	30A	30A	10A	
6325.0	BRAKE LIGHTS														
6330.0	ZKE INTERIOR LIGHTS (!B)				●									●	
6332.0	GLOVE COMPARTMENT LIGHT/ CIGAR LIGHTER/ CHARGING SOCKET				●					●					
6350.0	CRASH CONTROL MODULE														
6424.0	REAR WINDOW DEFOGGER/ ANTENNA											●			
6450.0	AUTOMATIC HEATING/AC CONTROL (IHKA)														
6454.0	AUXILIARY FAN														
6510.1	RADIO/HIFI						●								
6561.0	CELLULAR TELEPHONE (PROVISIONS)	●													
6575.1	ANTI-THEFT SYSTEM III (DWA III)		●												
6581.0	MULTI- INFORMATION DISPLAY (MID)		●												
6610.0	INFRARED LOCKING (IRS) NOT INSTALLED IN U.S. VEHICLES		●												

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POWER DISTRIBUTION

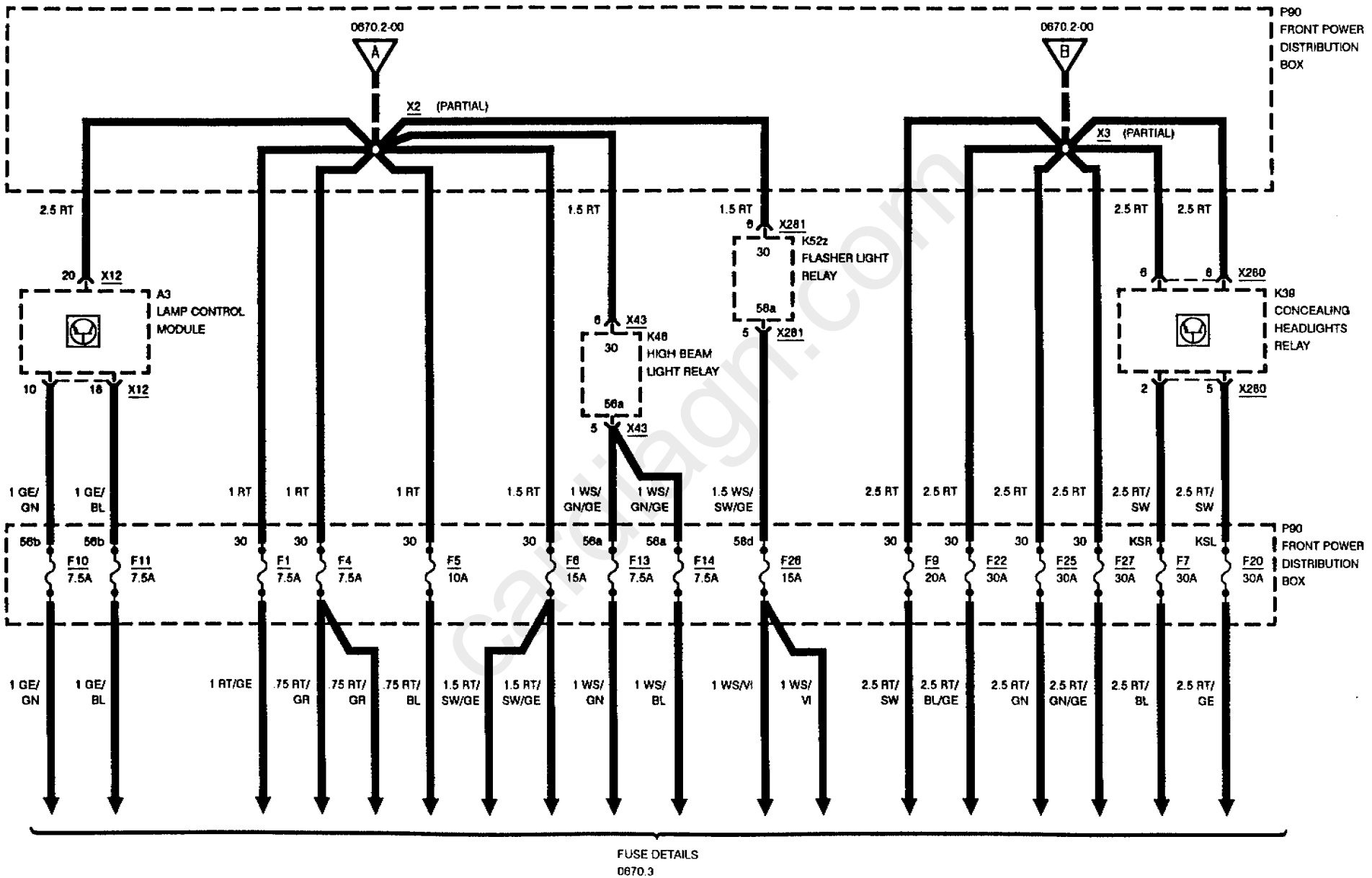
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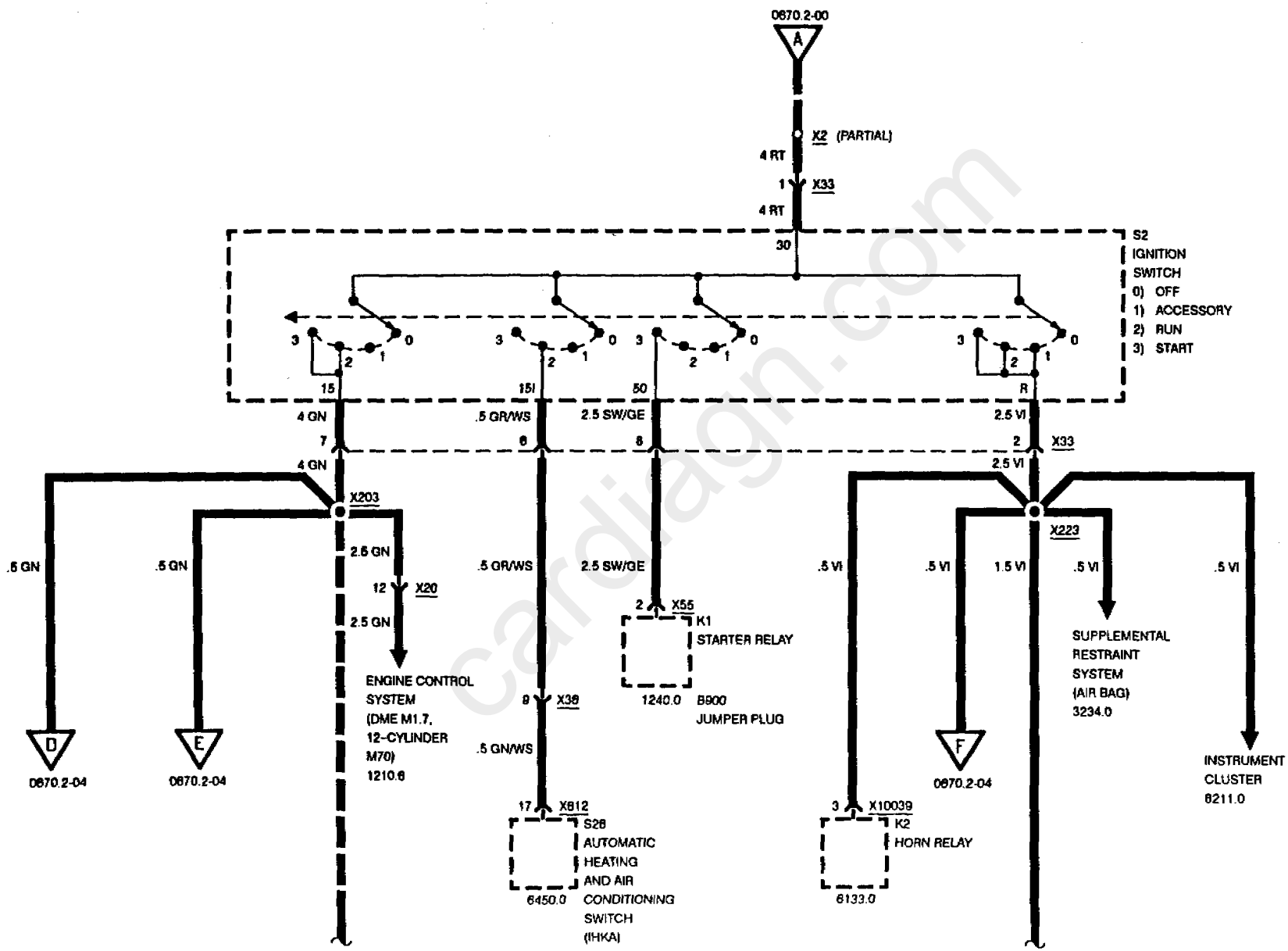
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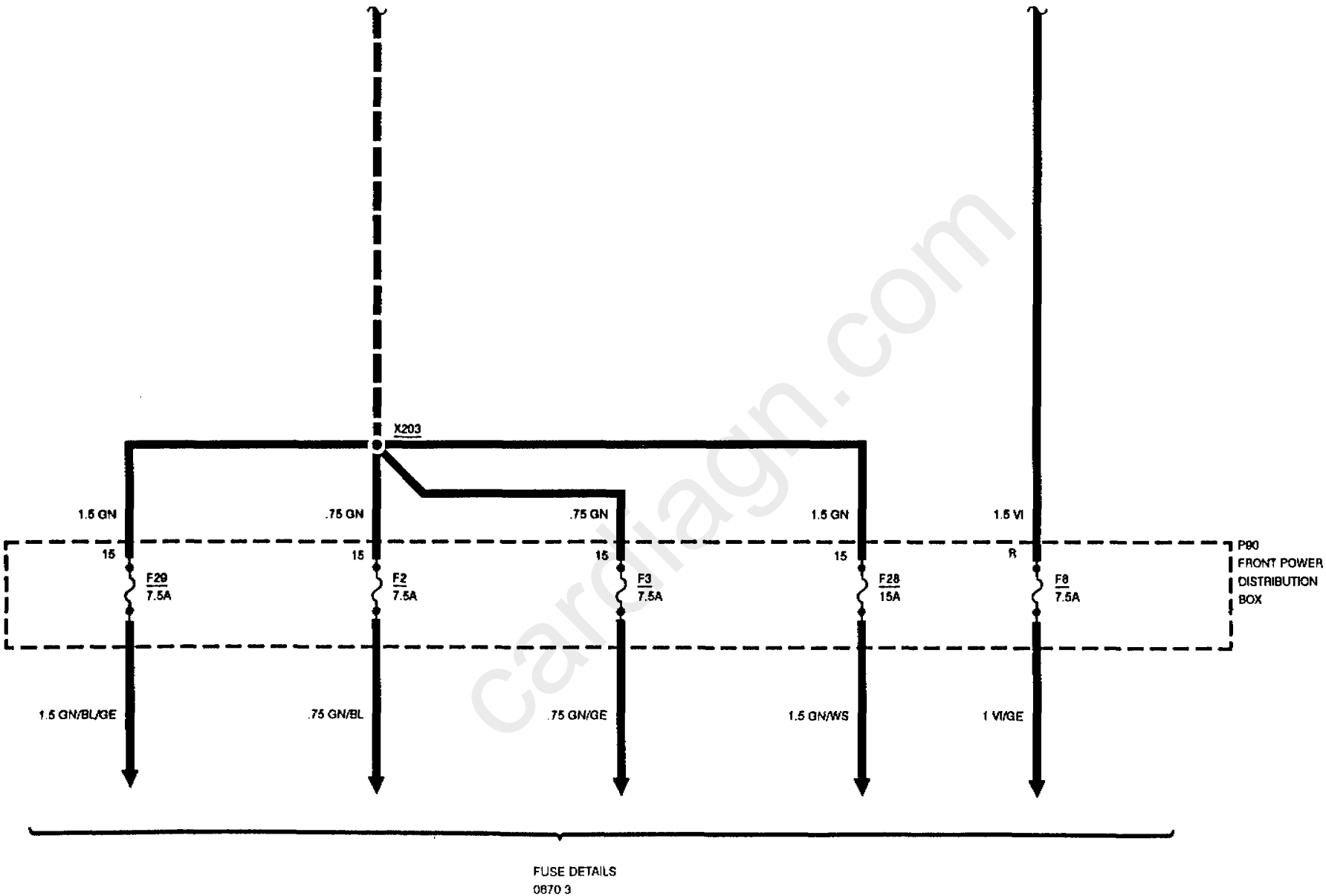
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FRONT POWER DISTRIBUTION BOX



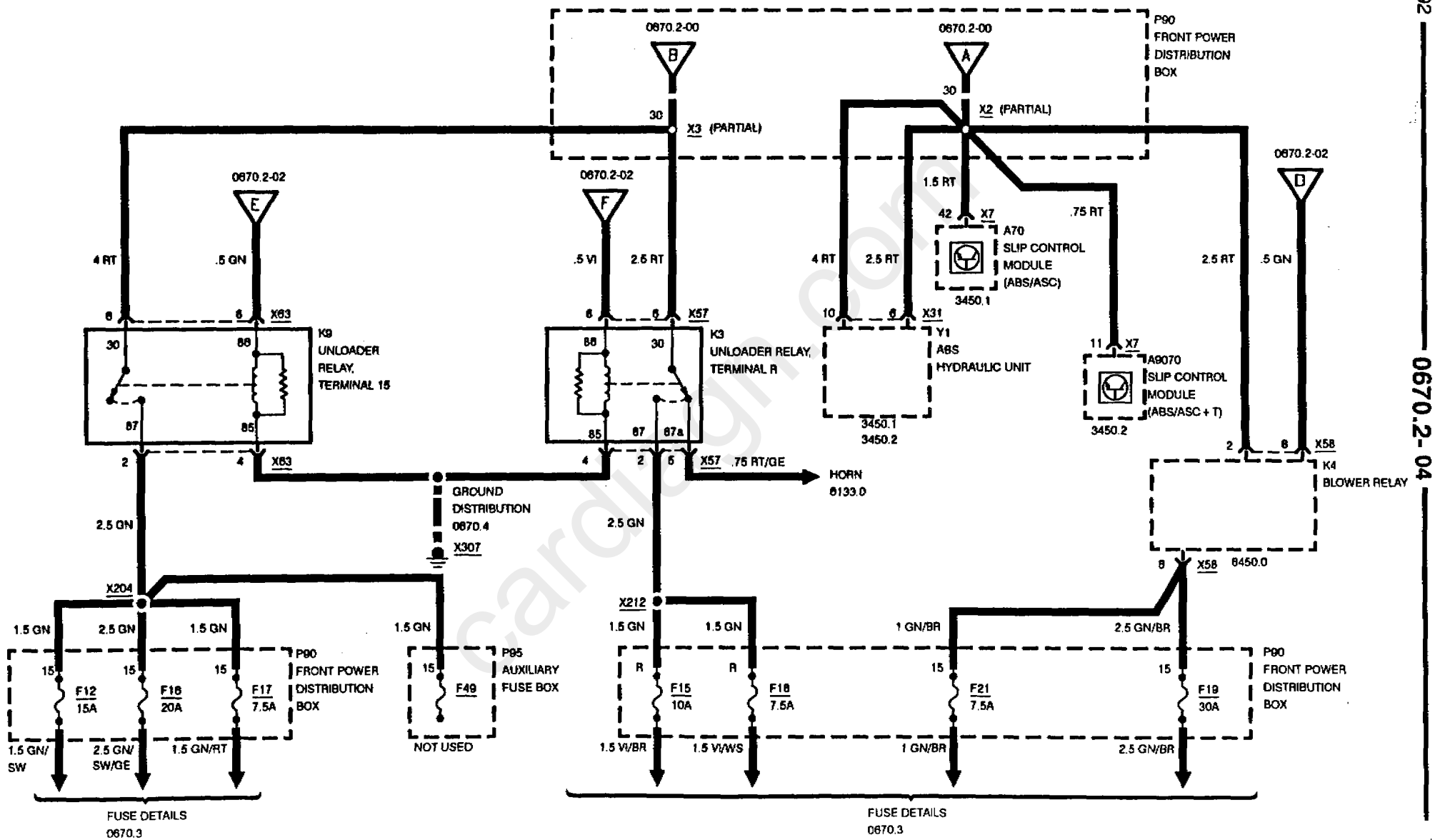
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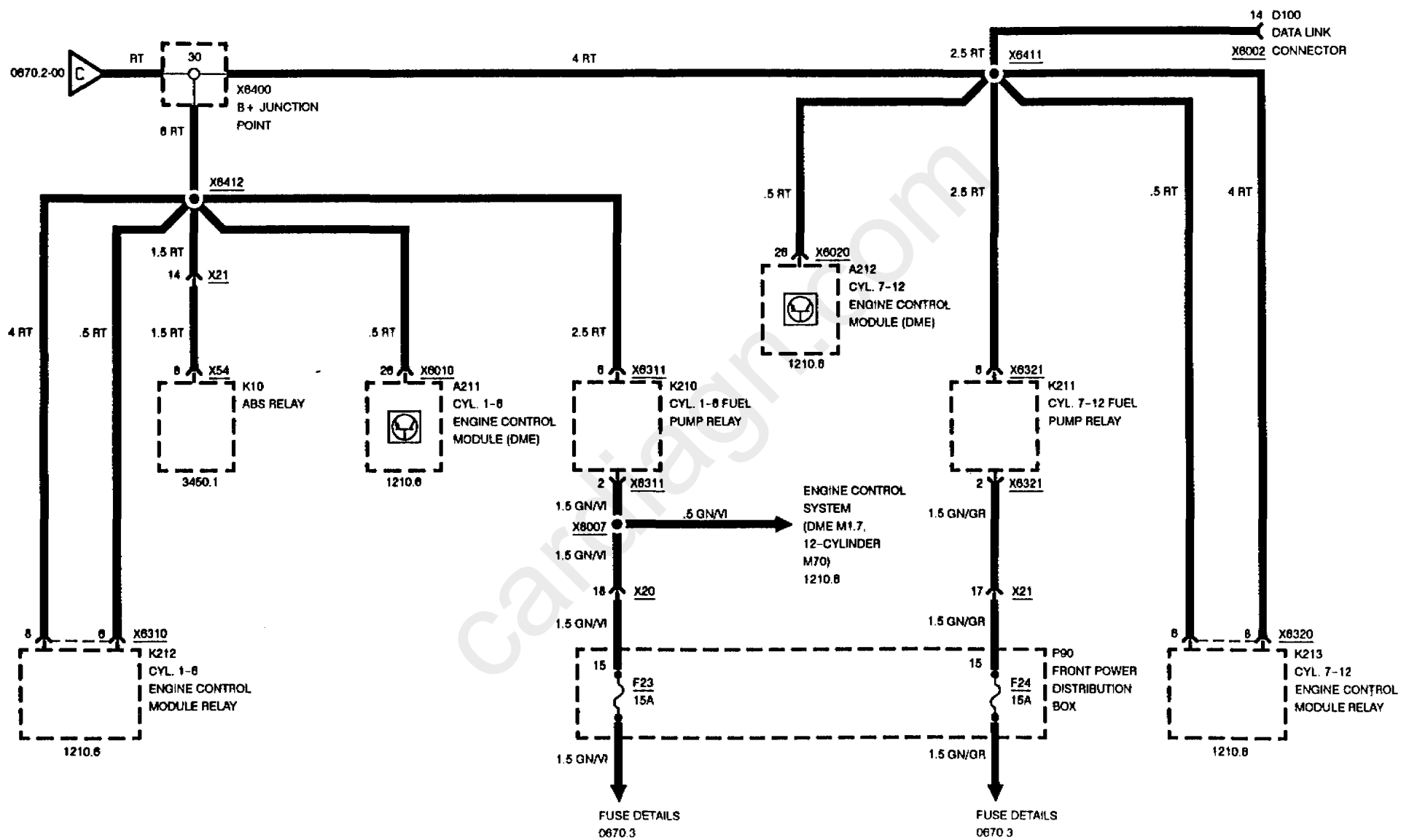
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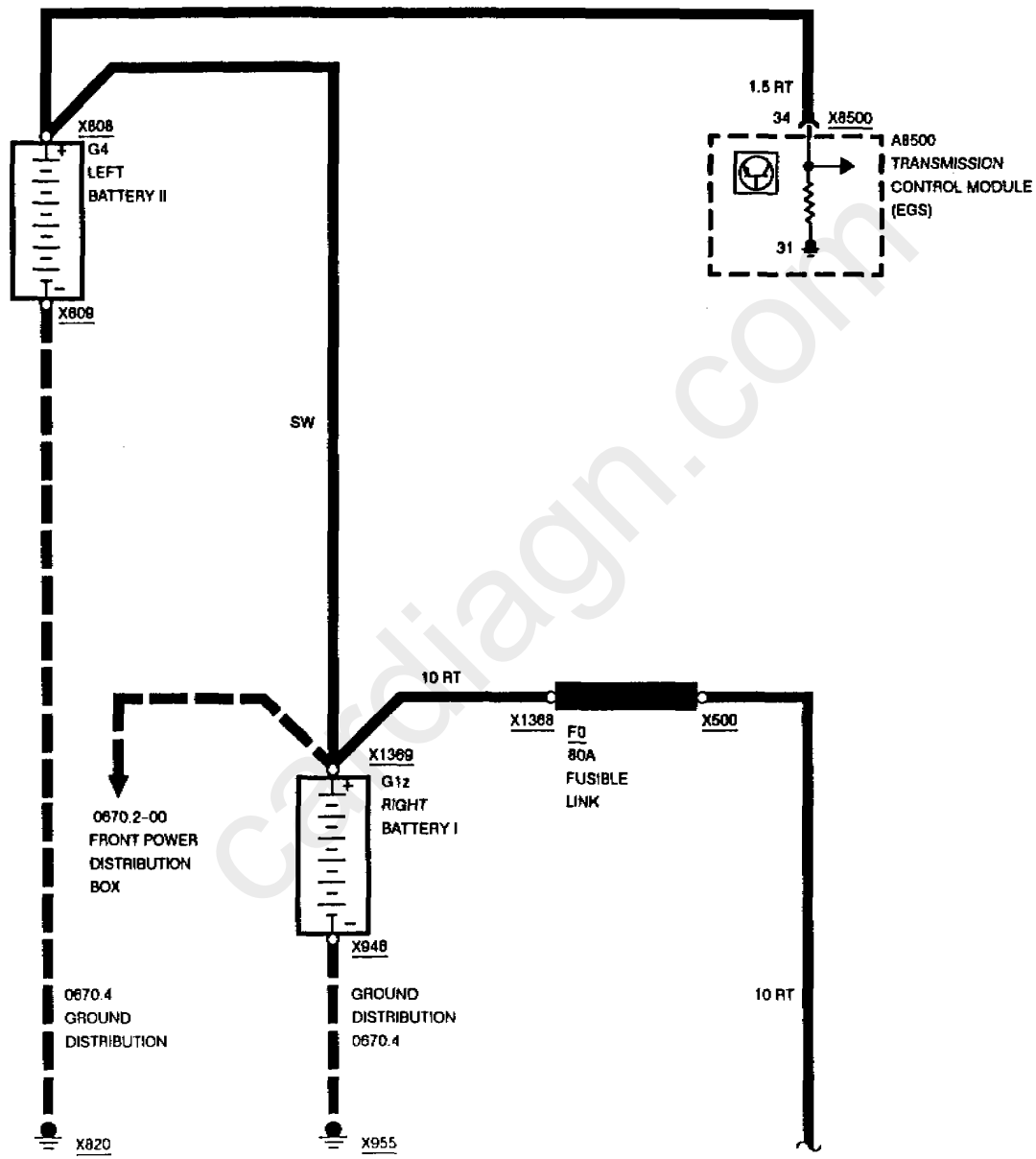
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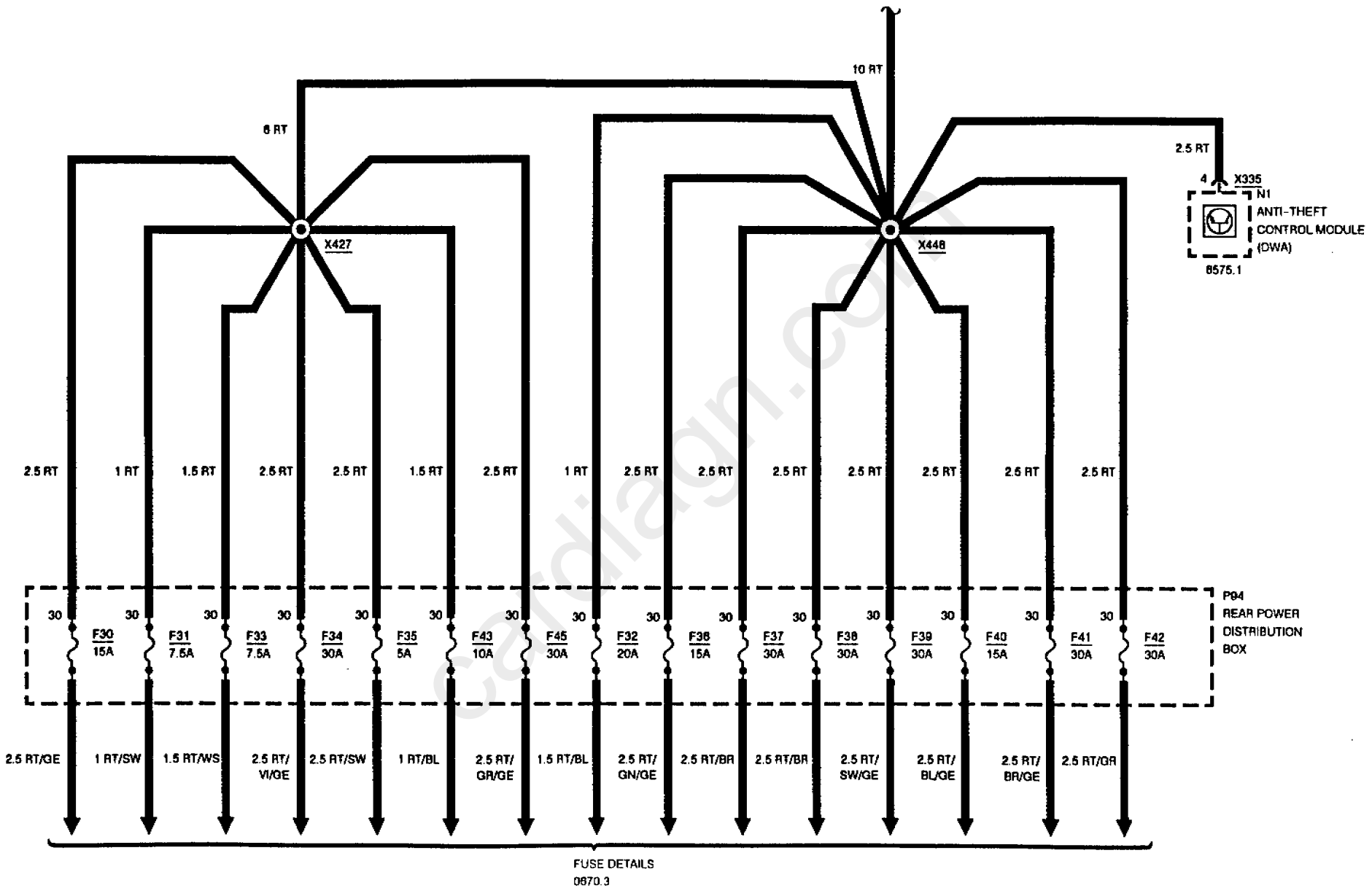
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REAR POWER DISTRIBUTION BOX



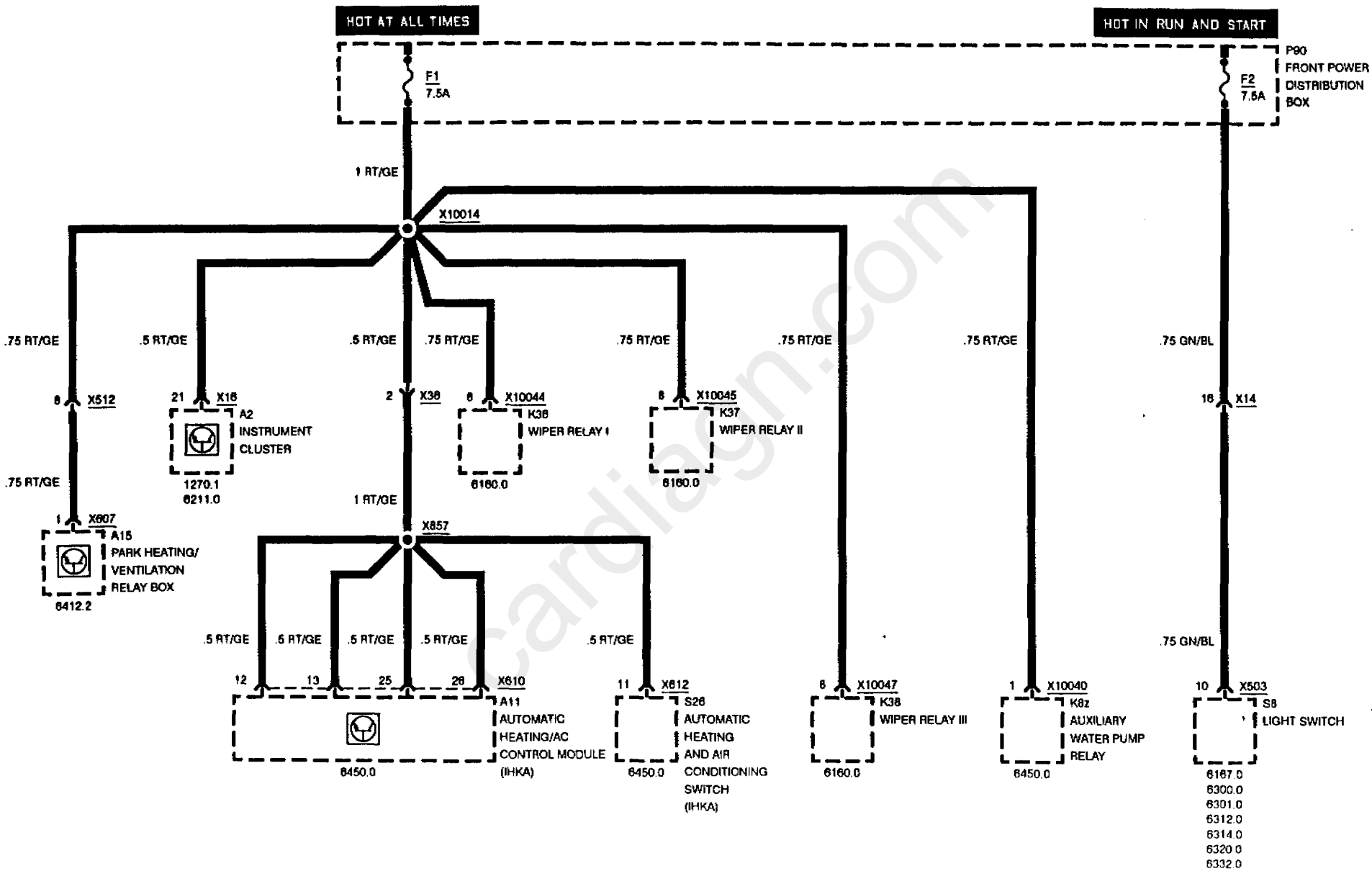
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FUSE DETAILS

FUSES 1 AND 2

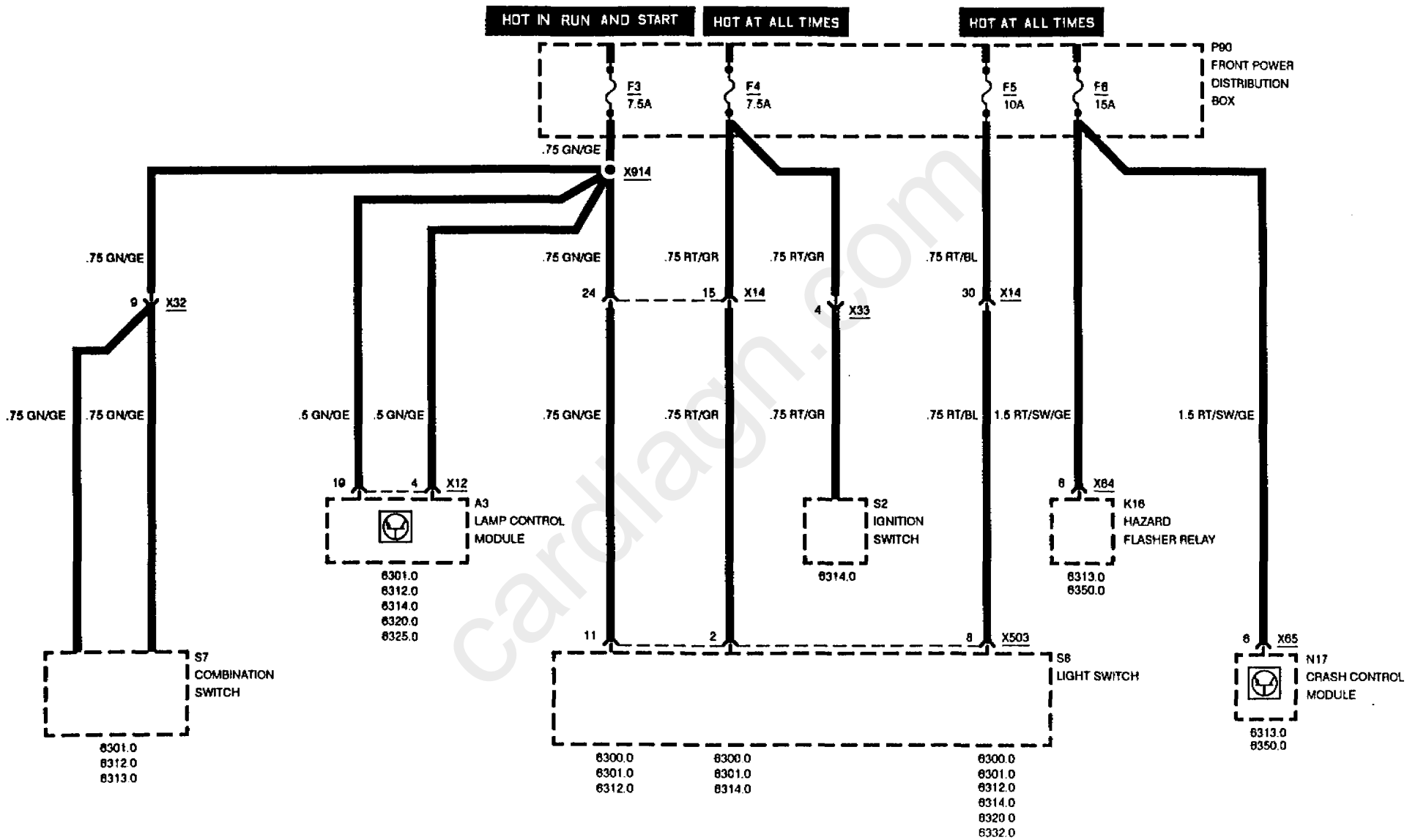


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FUSE DETAILS

USA

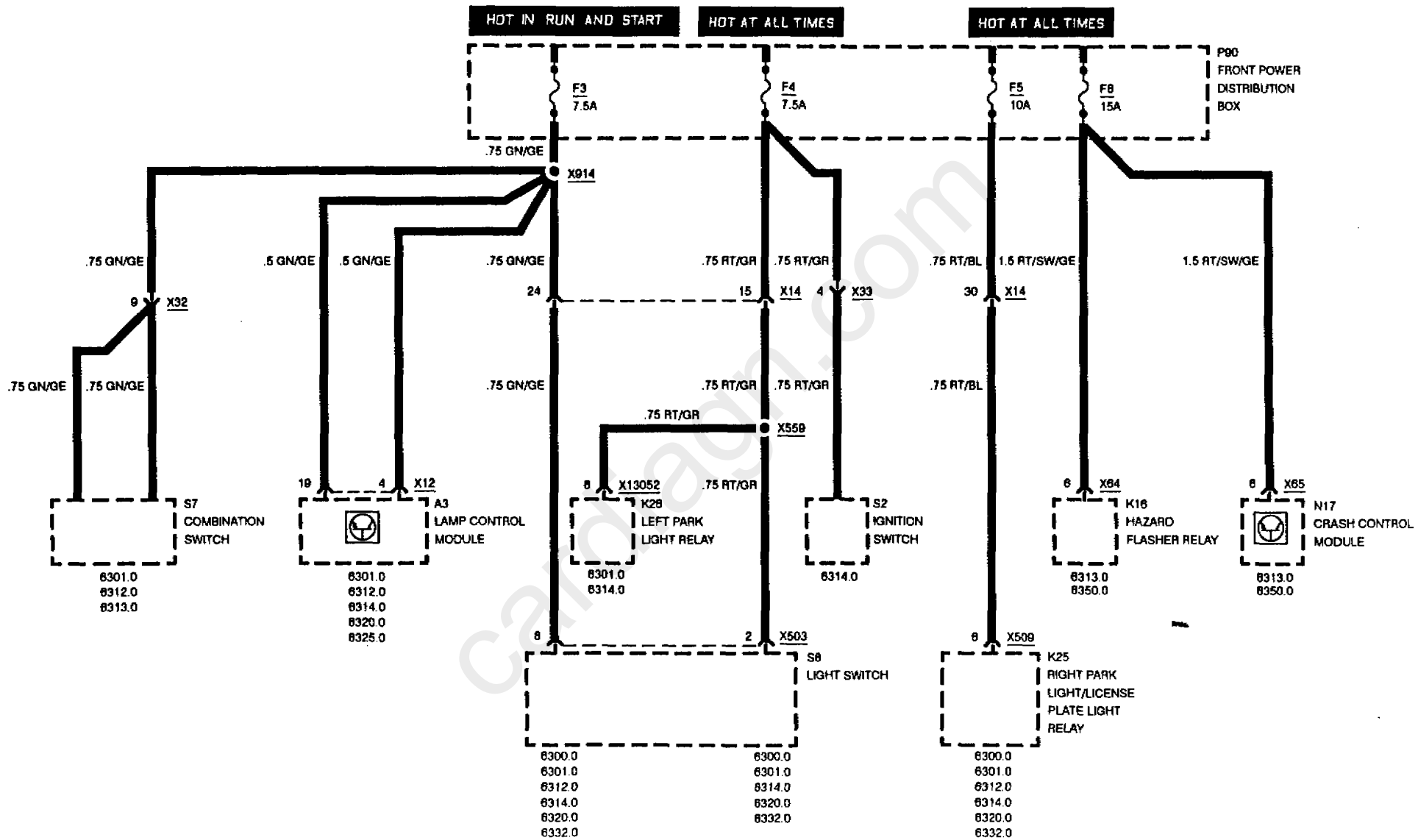
FUSES 3, 4, 5, AND 6



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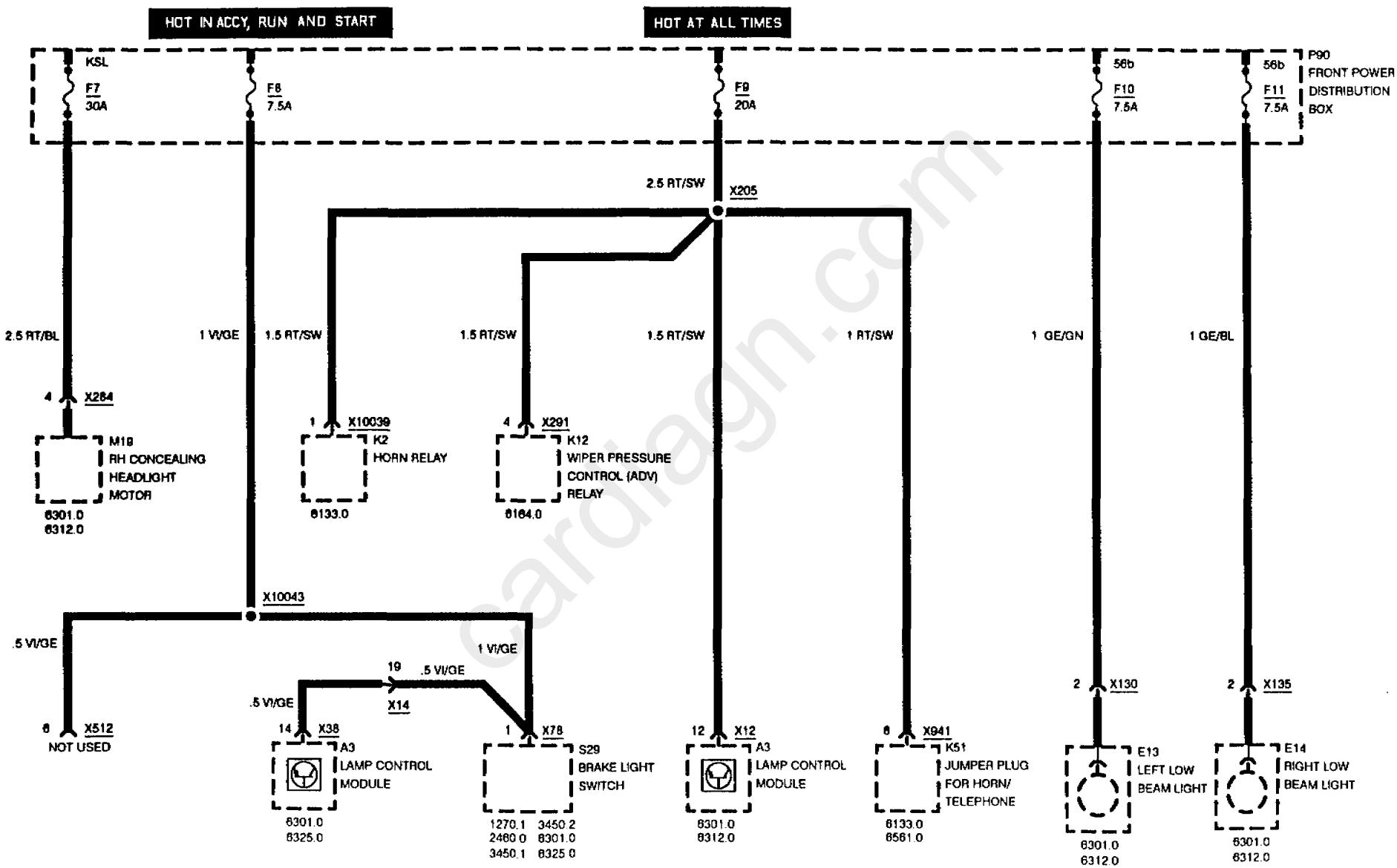
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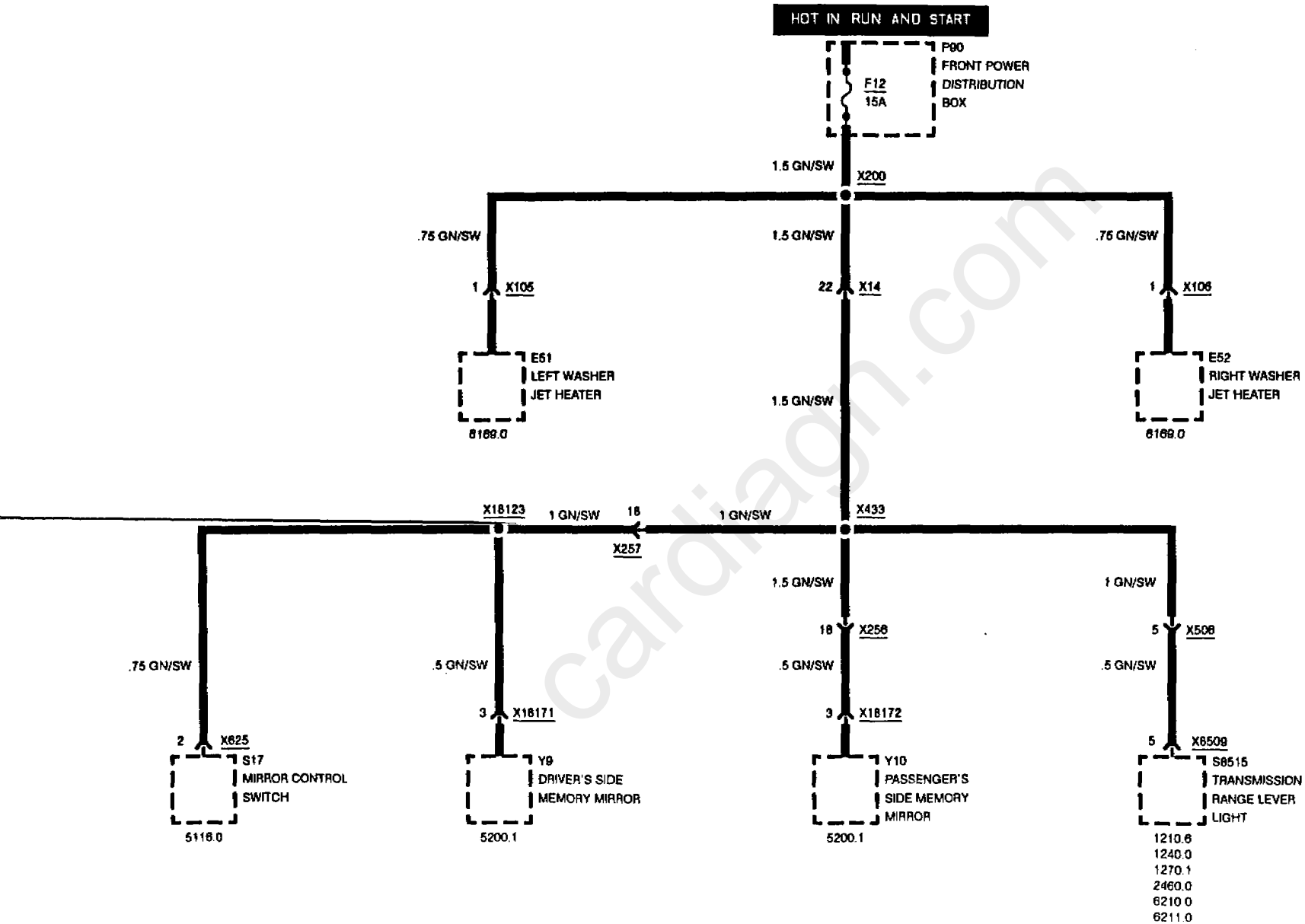
FUSES 7, 8, 9, 10, AND 11



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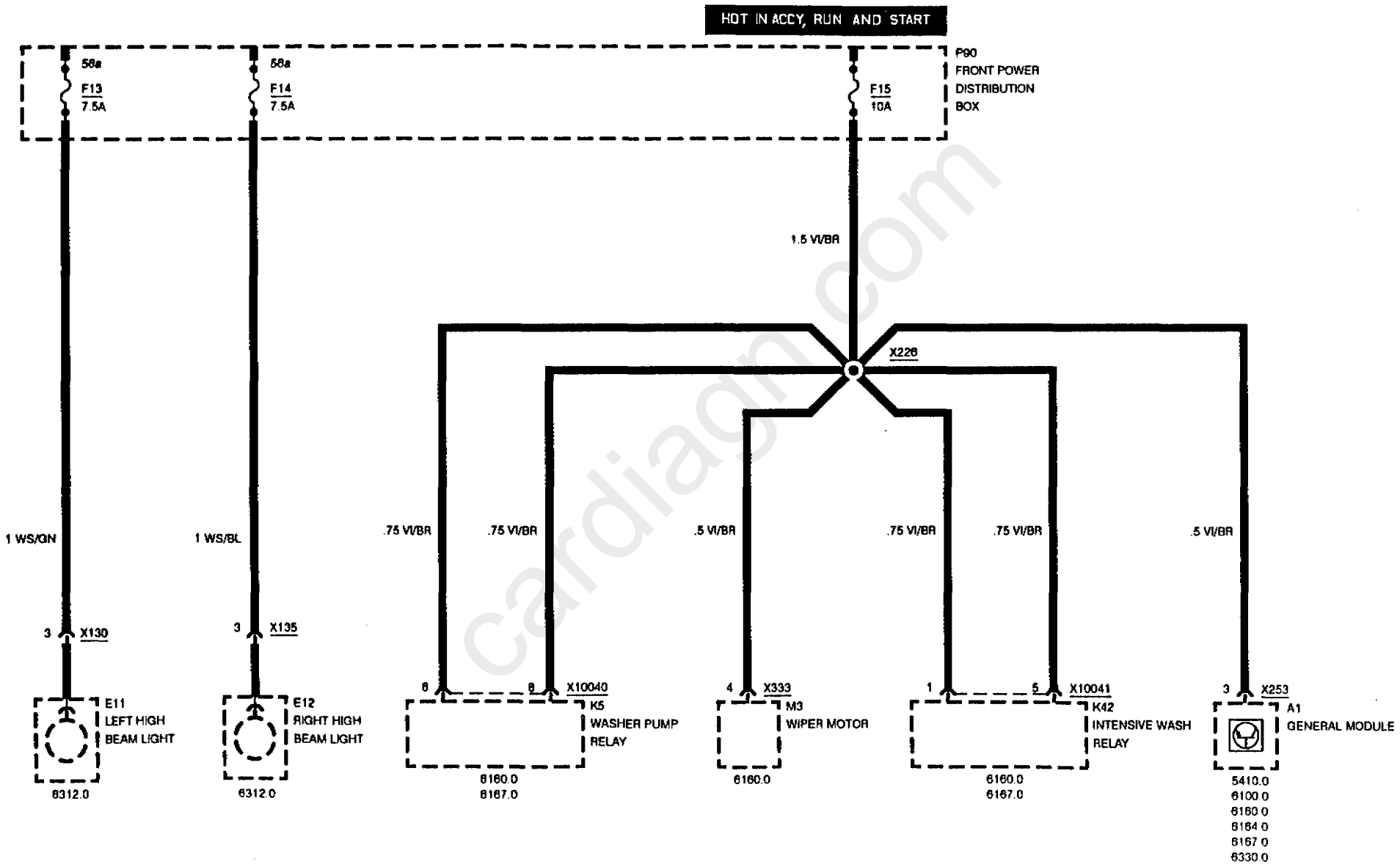
FUSE 12



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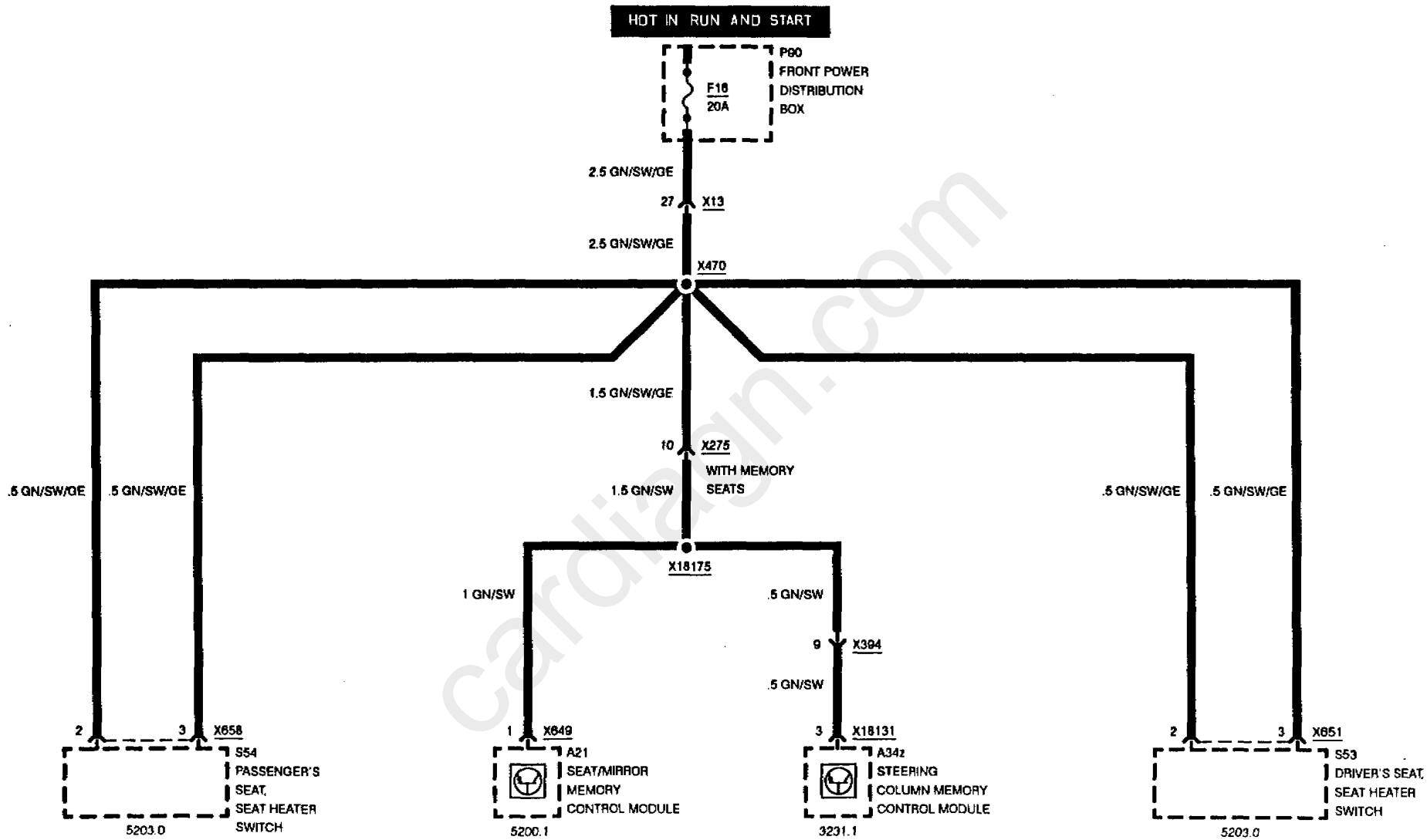
FUSES 13, 14, AND 15



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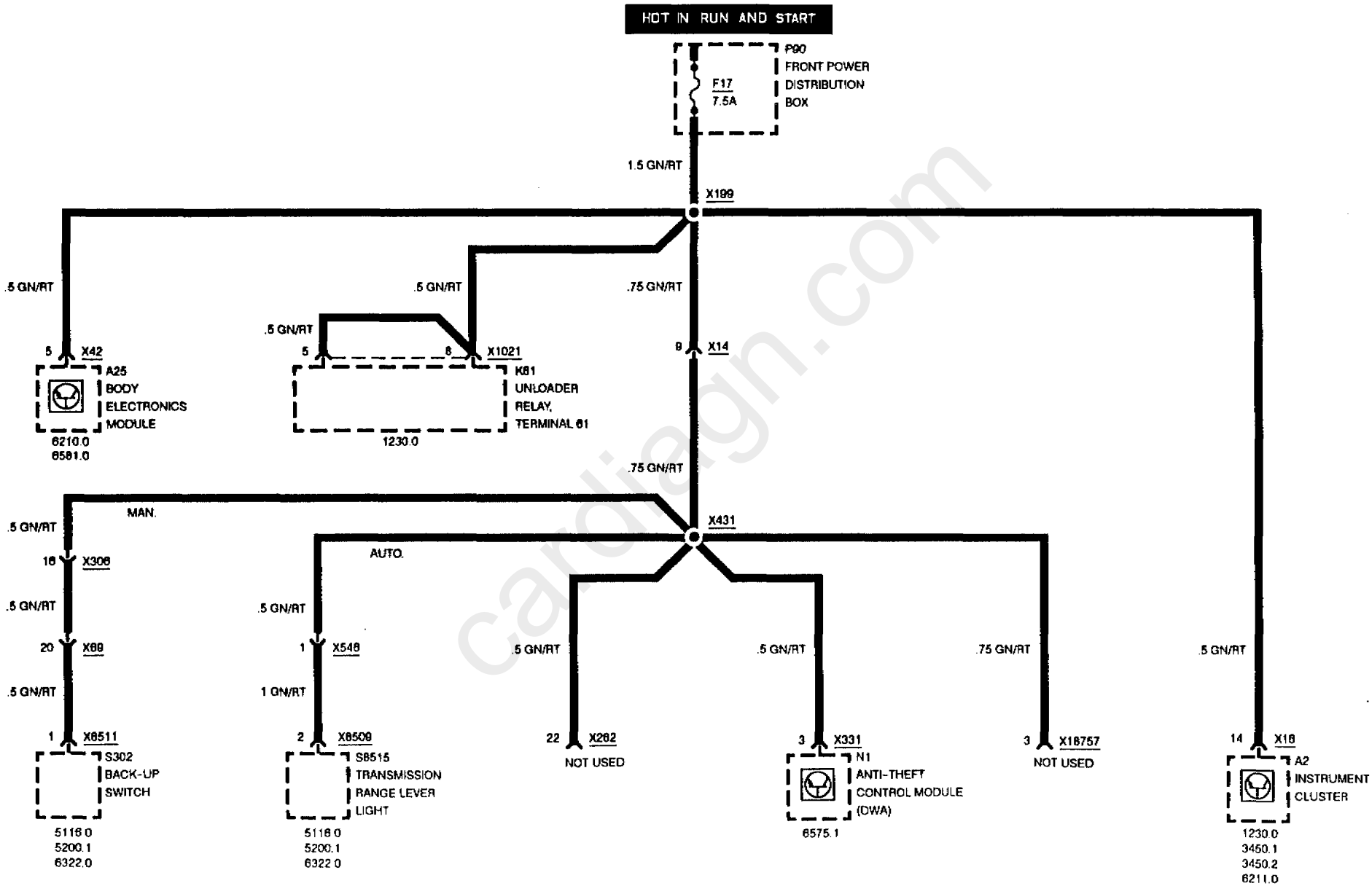
FUSE 16



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FUSE DETAILS

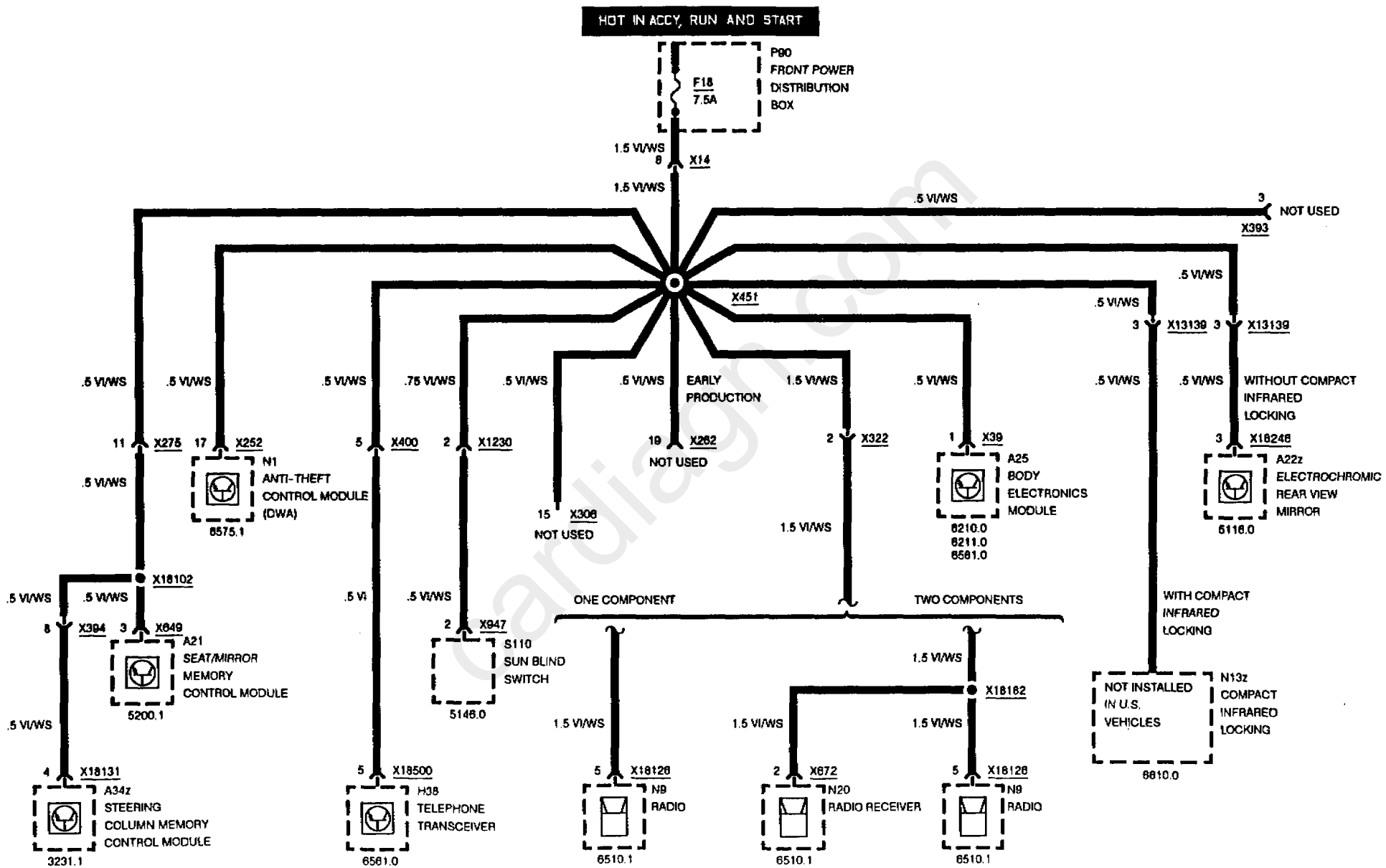
FUSE 17



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FUSE DETAILS

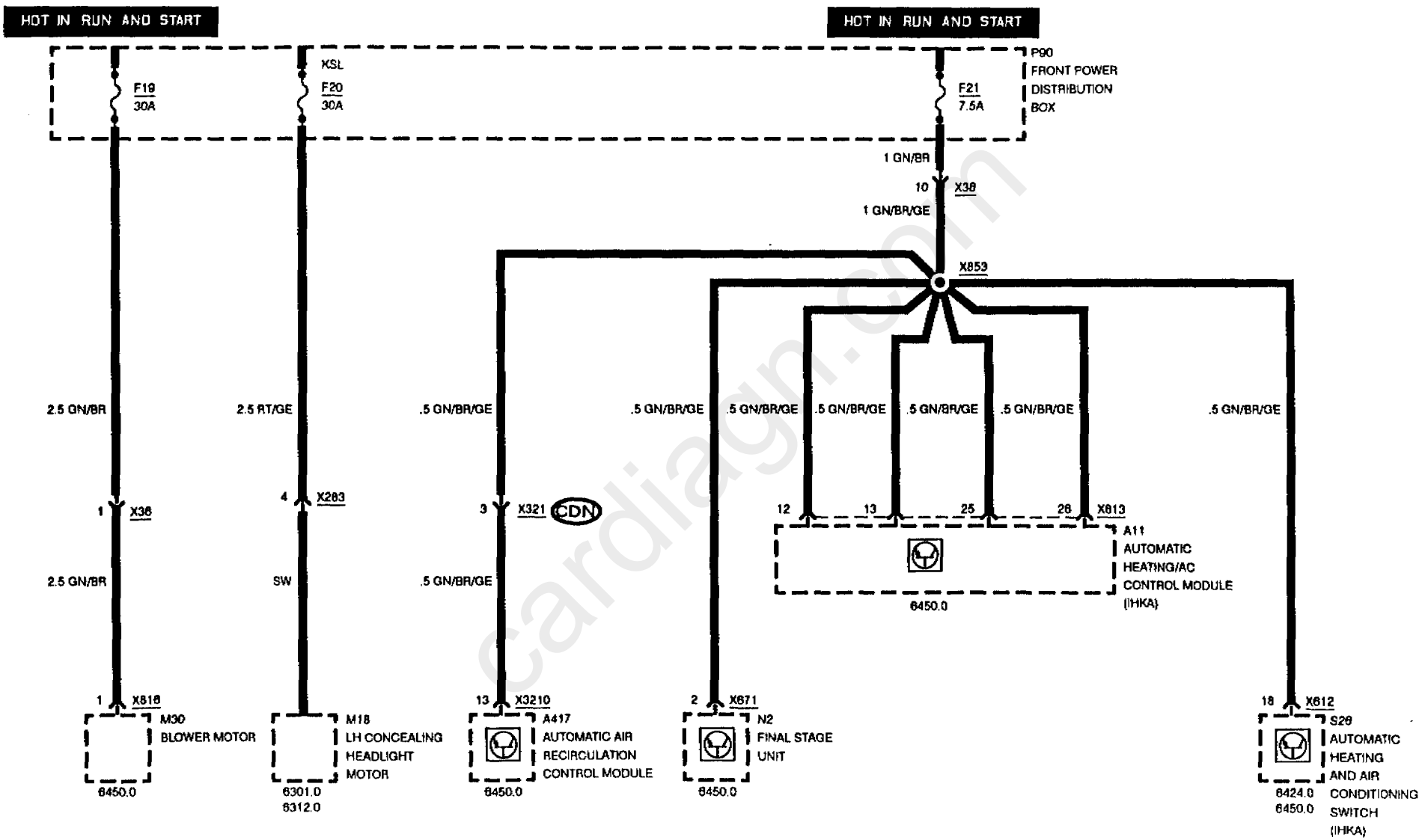
FUSE 18



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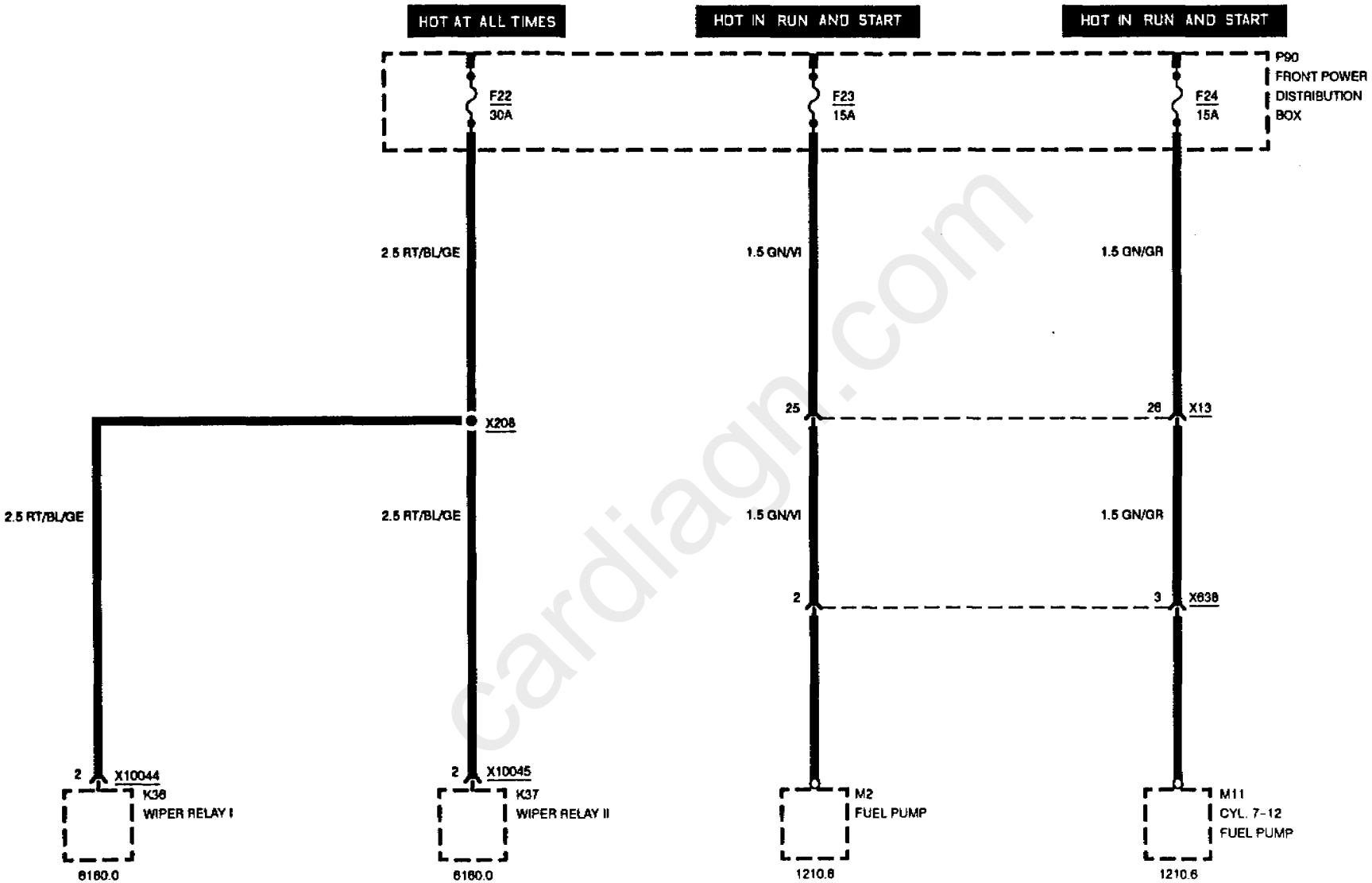
FUSES 19, 20, AND 21



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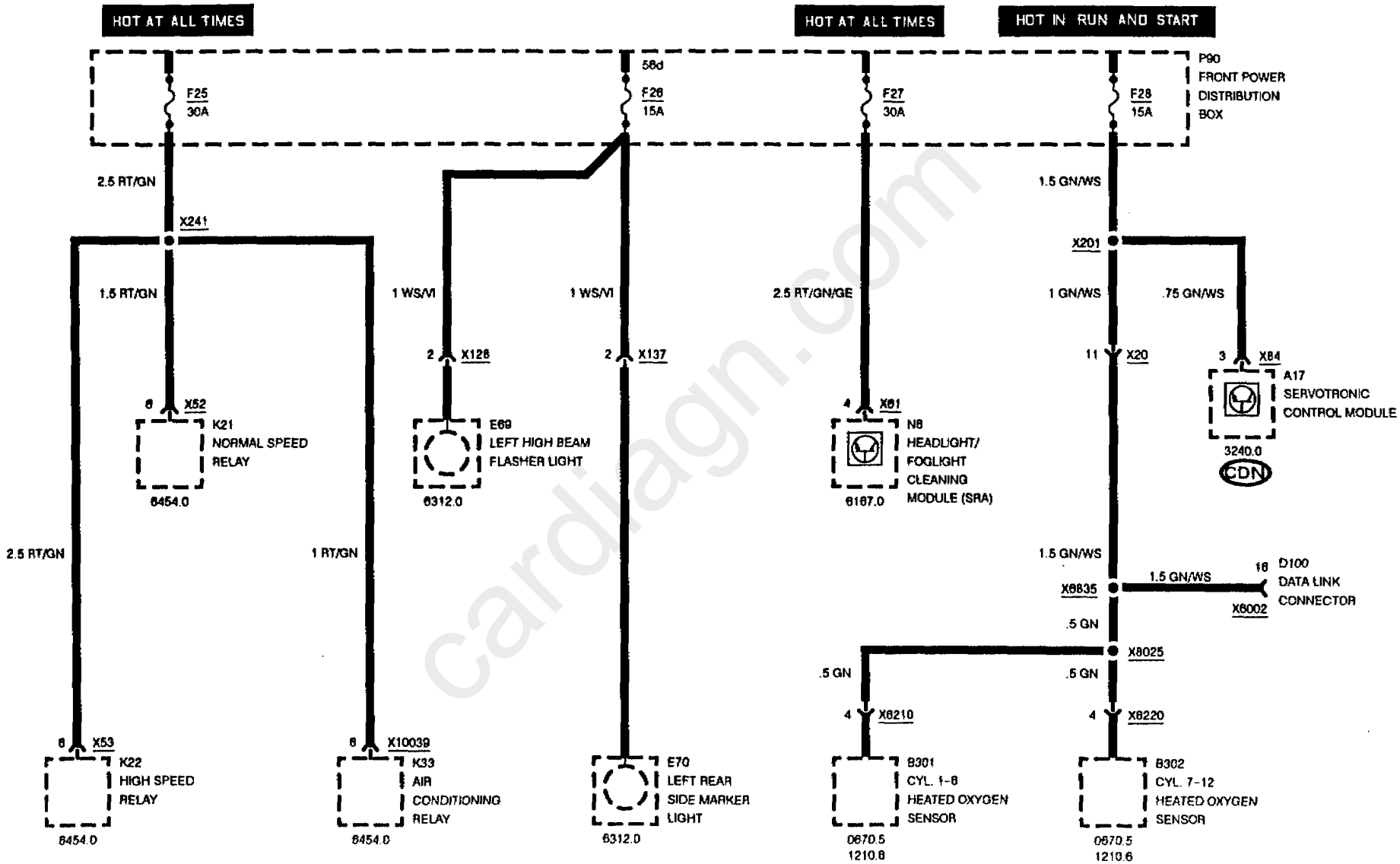
FUSES 22, 23, AND 24



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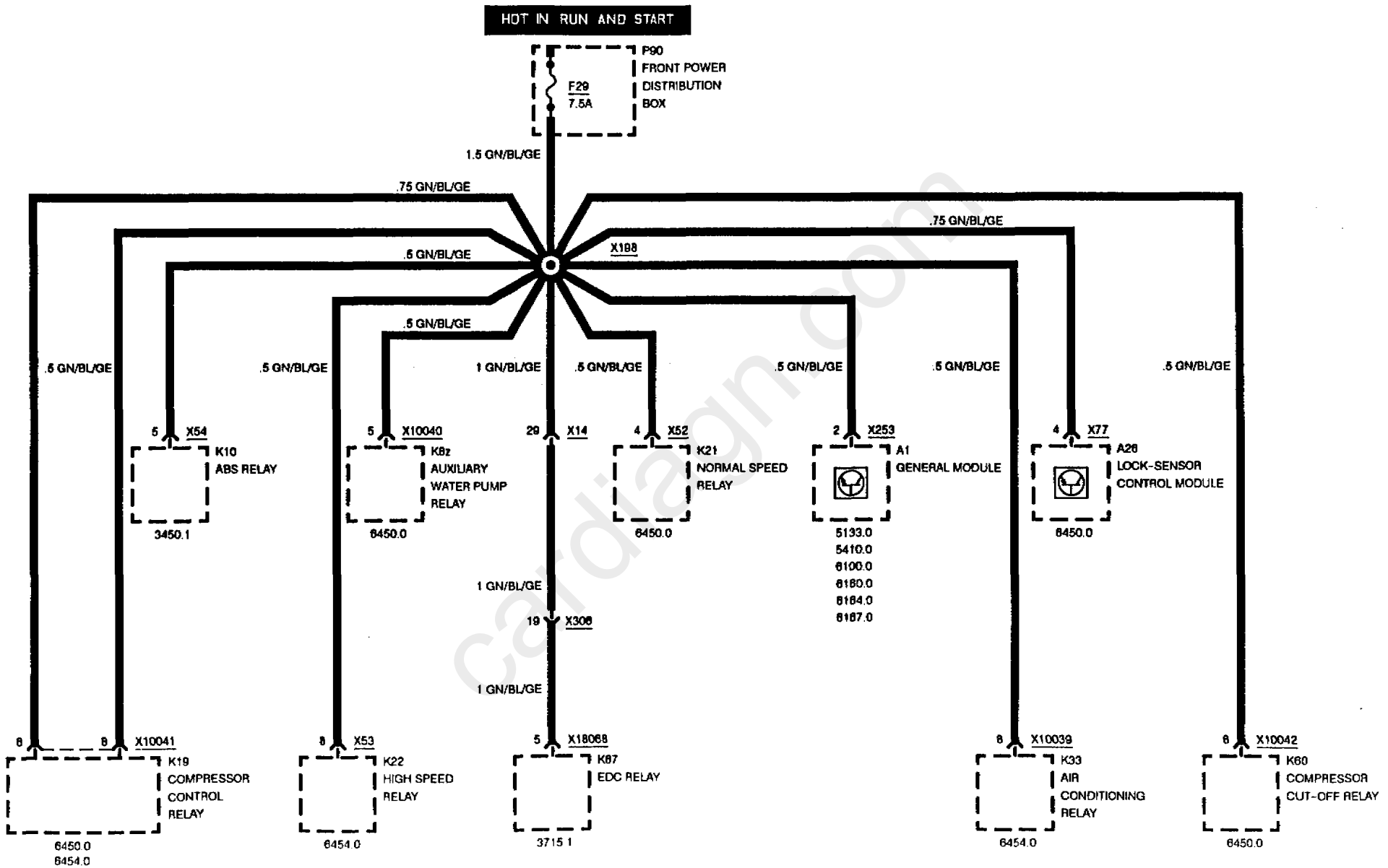
FUSES 25, 26, 27, AND 28



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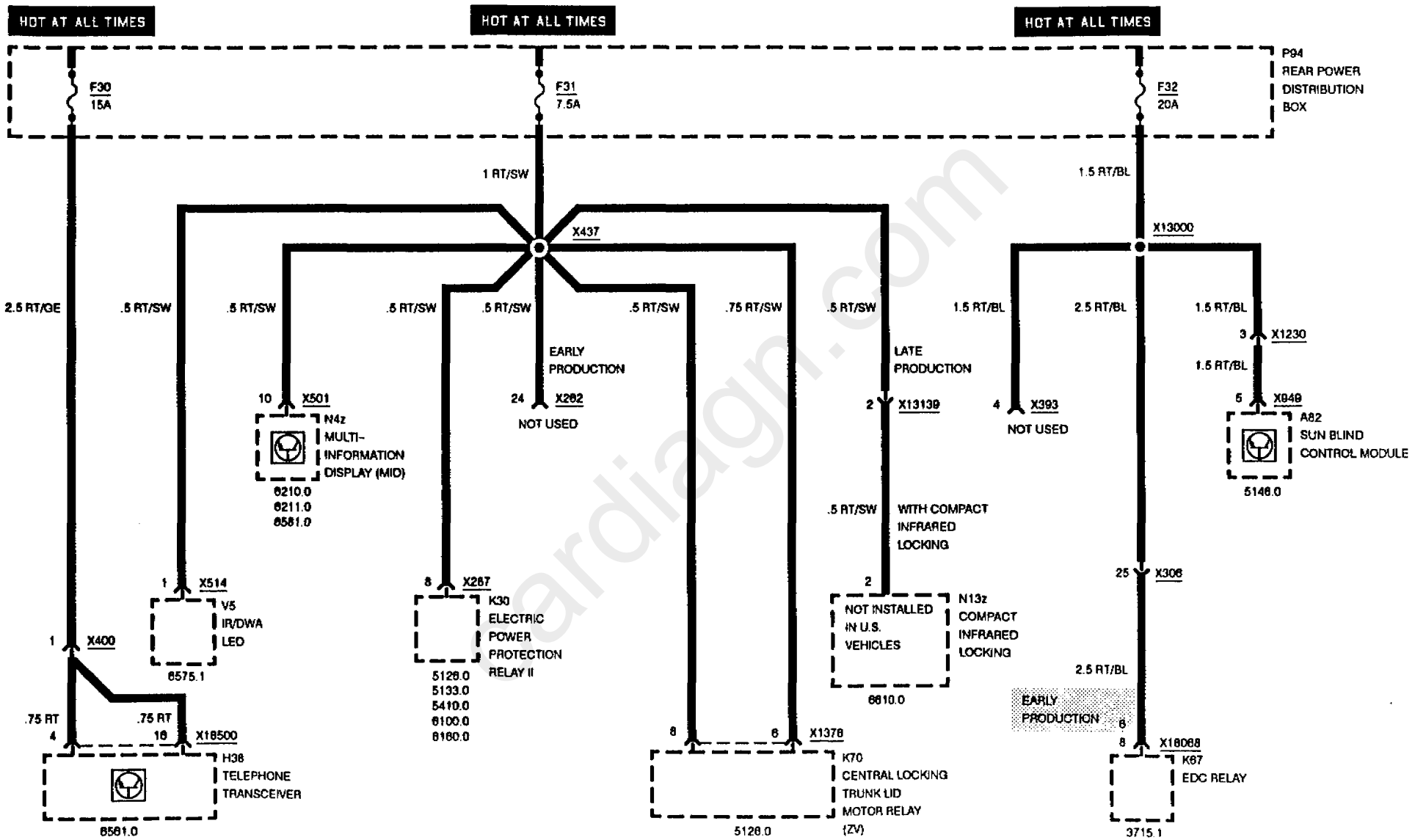
FUSE 29



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FUSE DETAILS

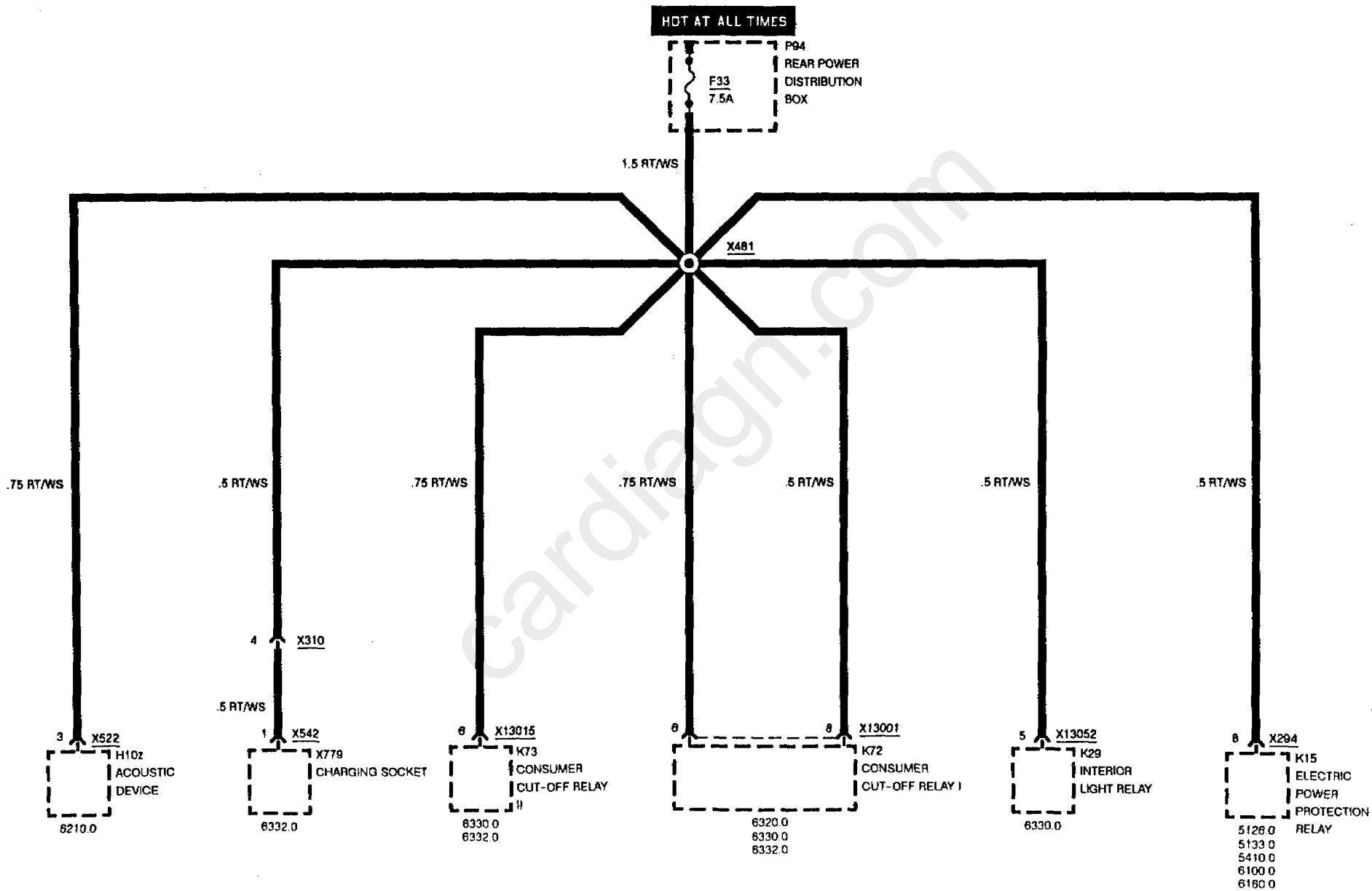
FUSES 30, 31, AND 32



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FUSE DETAILS

FUSE 33

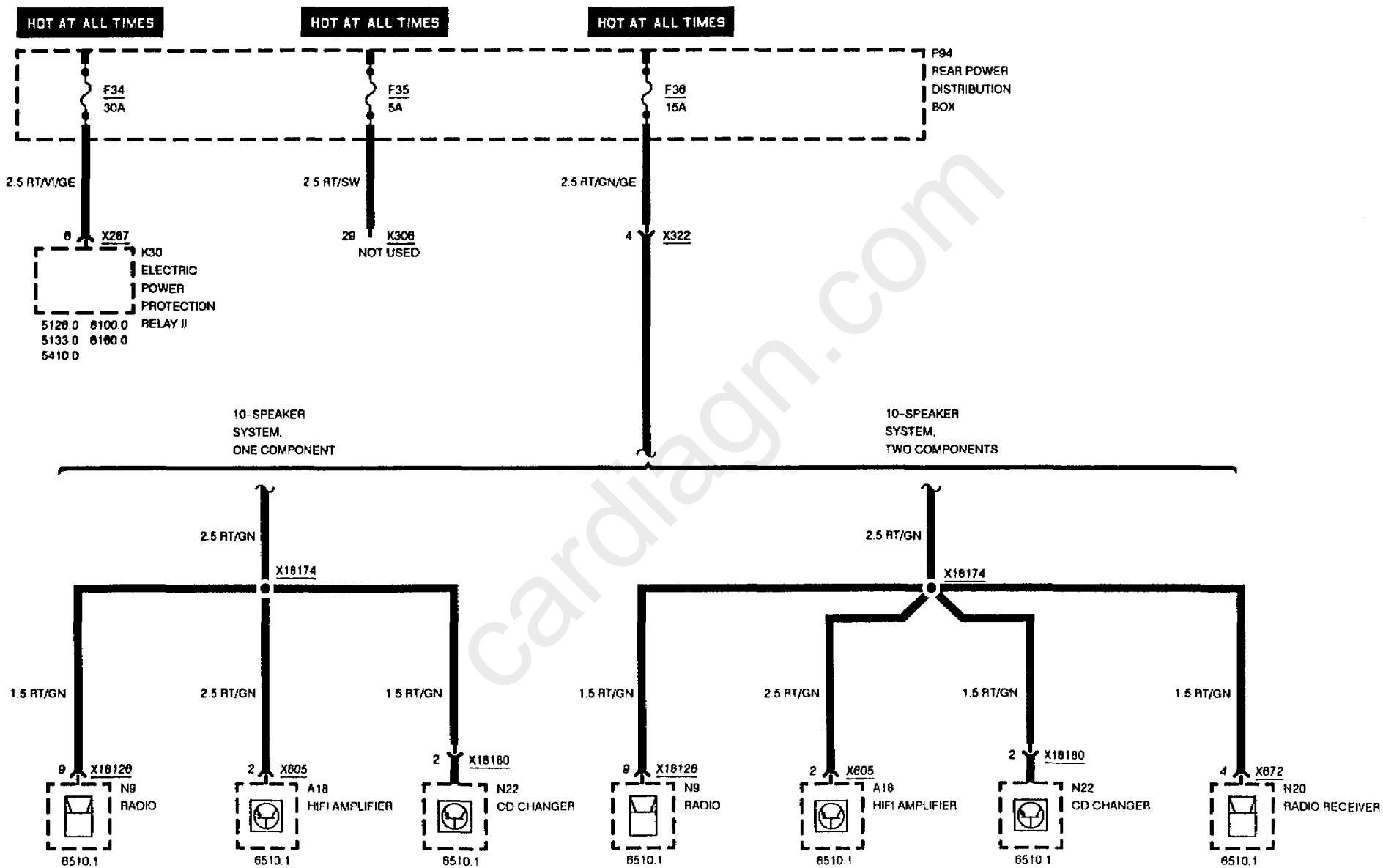


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FUSE DETAILS

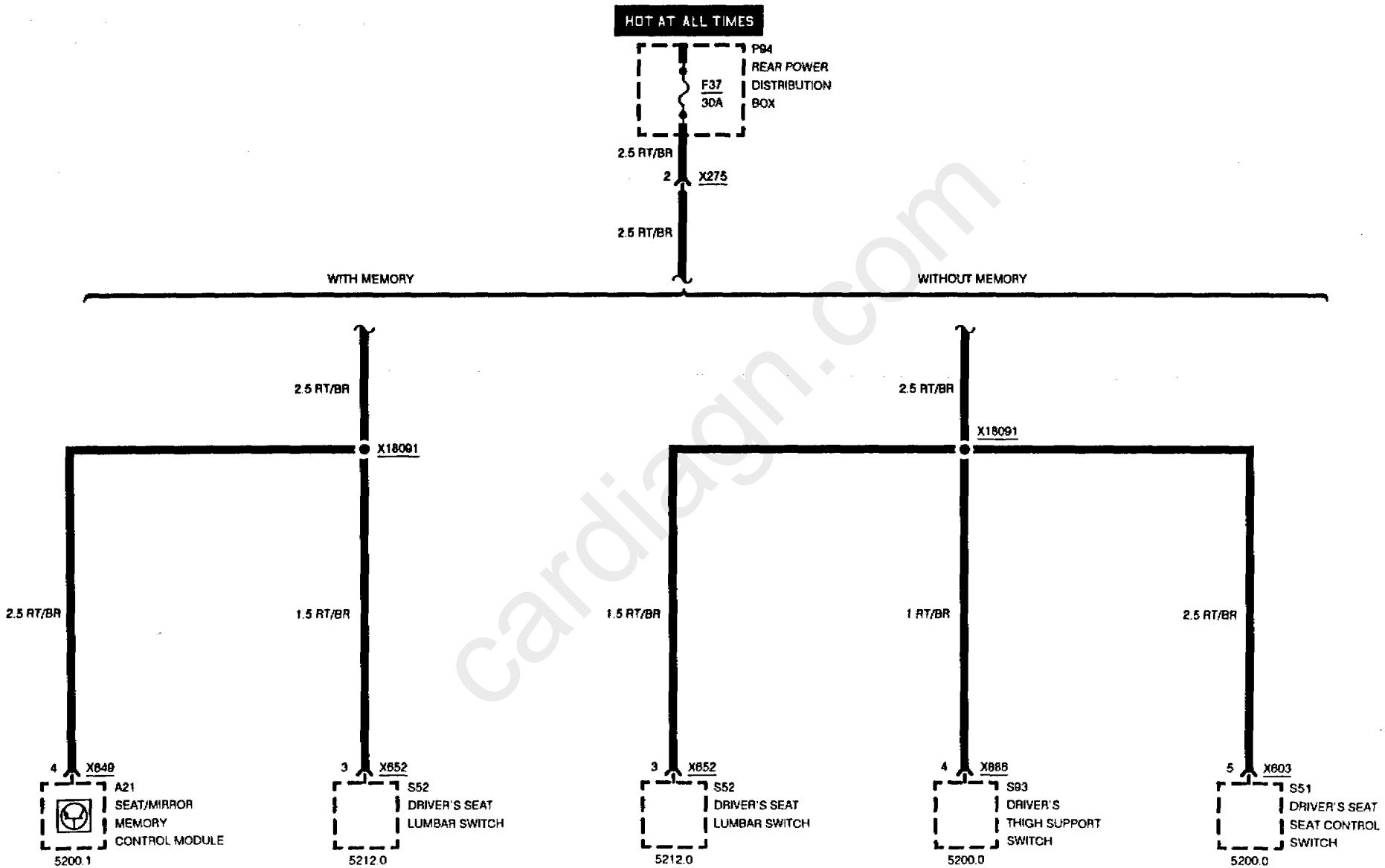
FUSES 34, 35, AND 36



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FUSE DETAILS

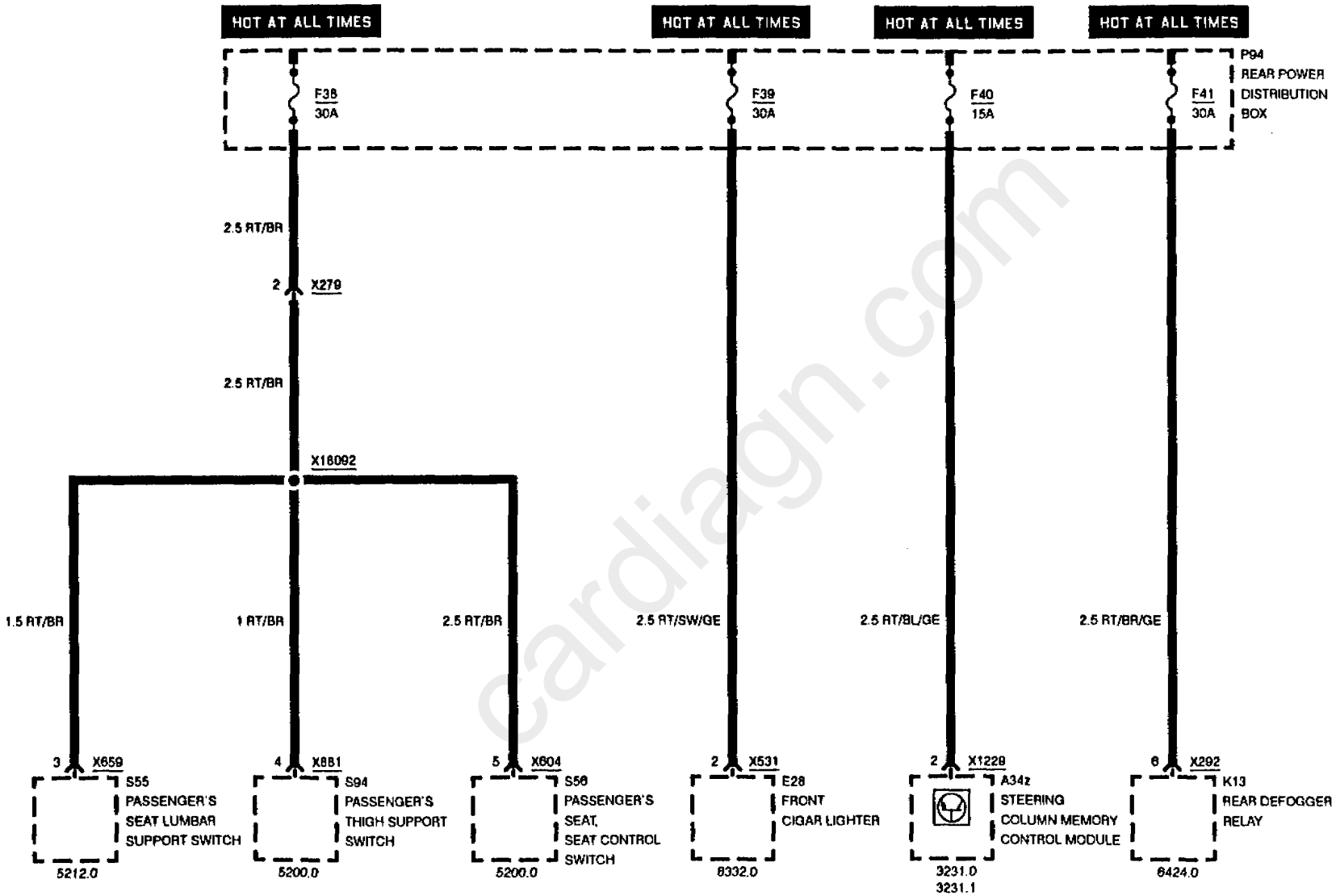
FUSE 37



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FUSE DETAILS

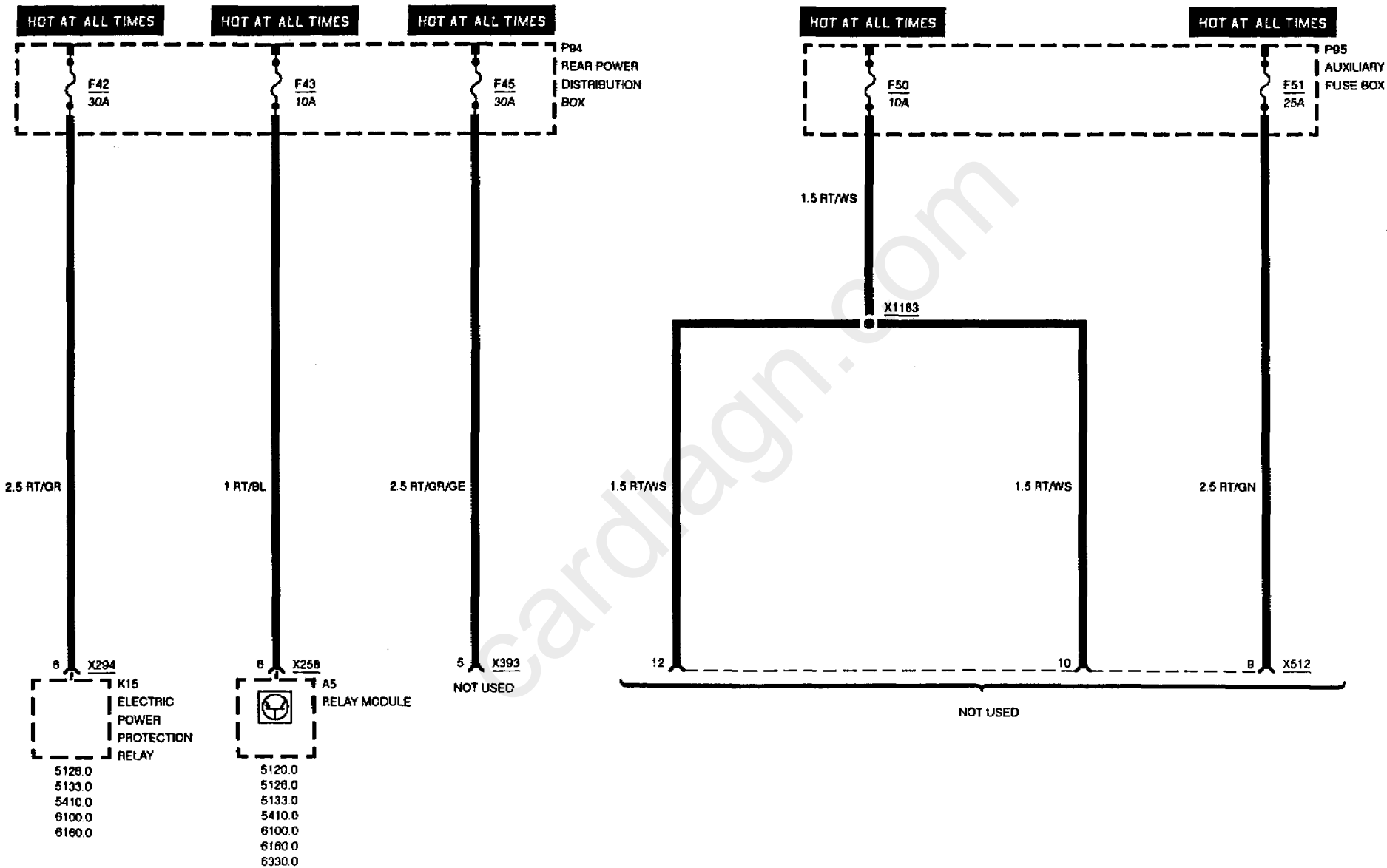
FUSES 38, 39, 40, AND 41



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FUSE DETAILS

FUSES 42, 43, 45, 50, AND 51

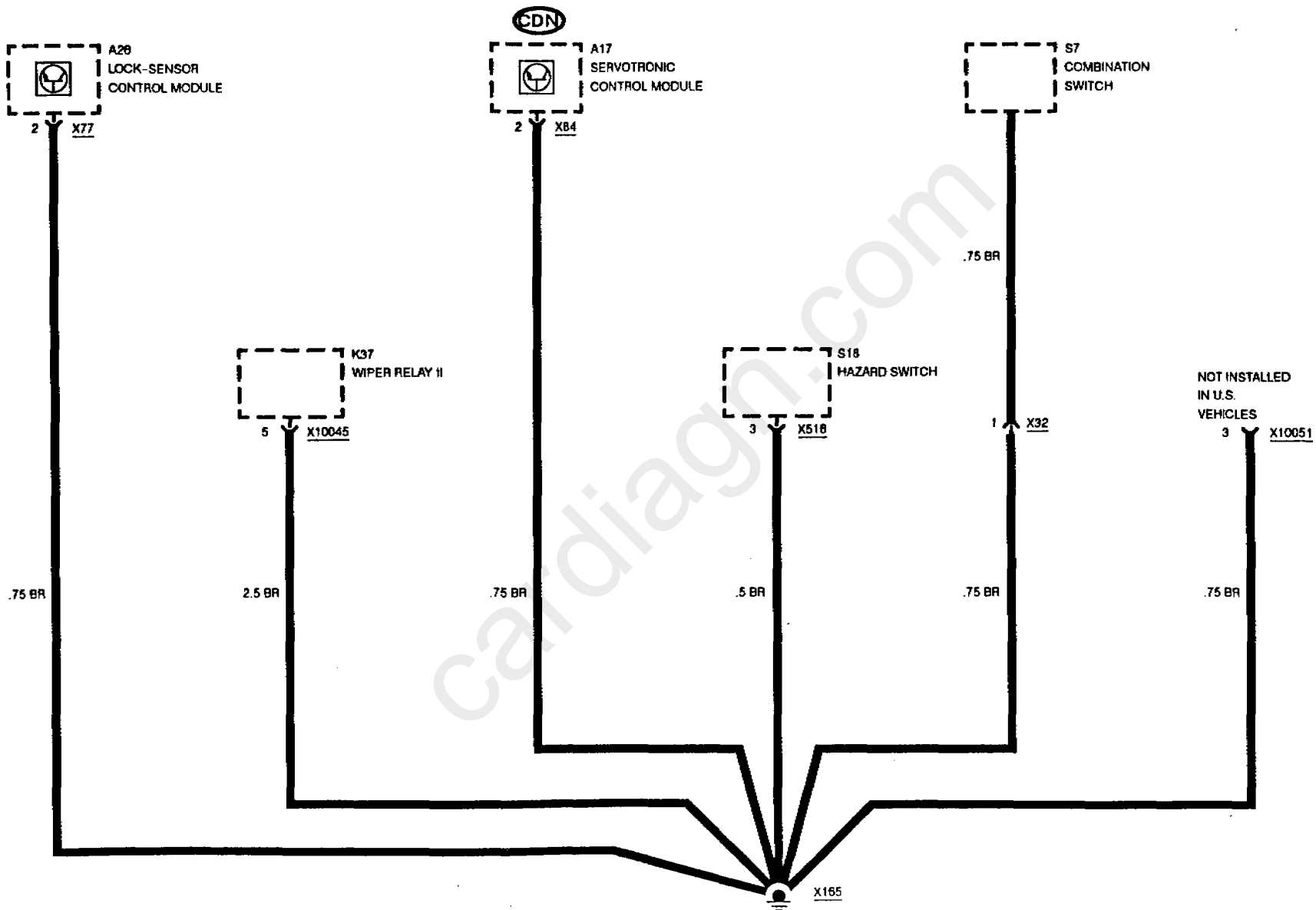


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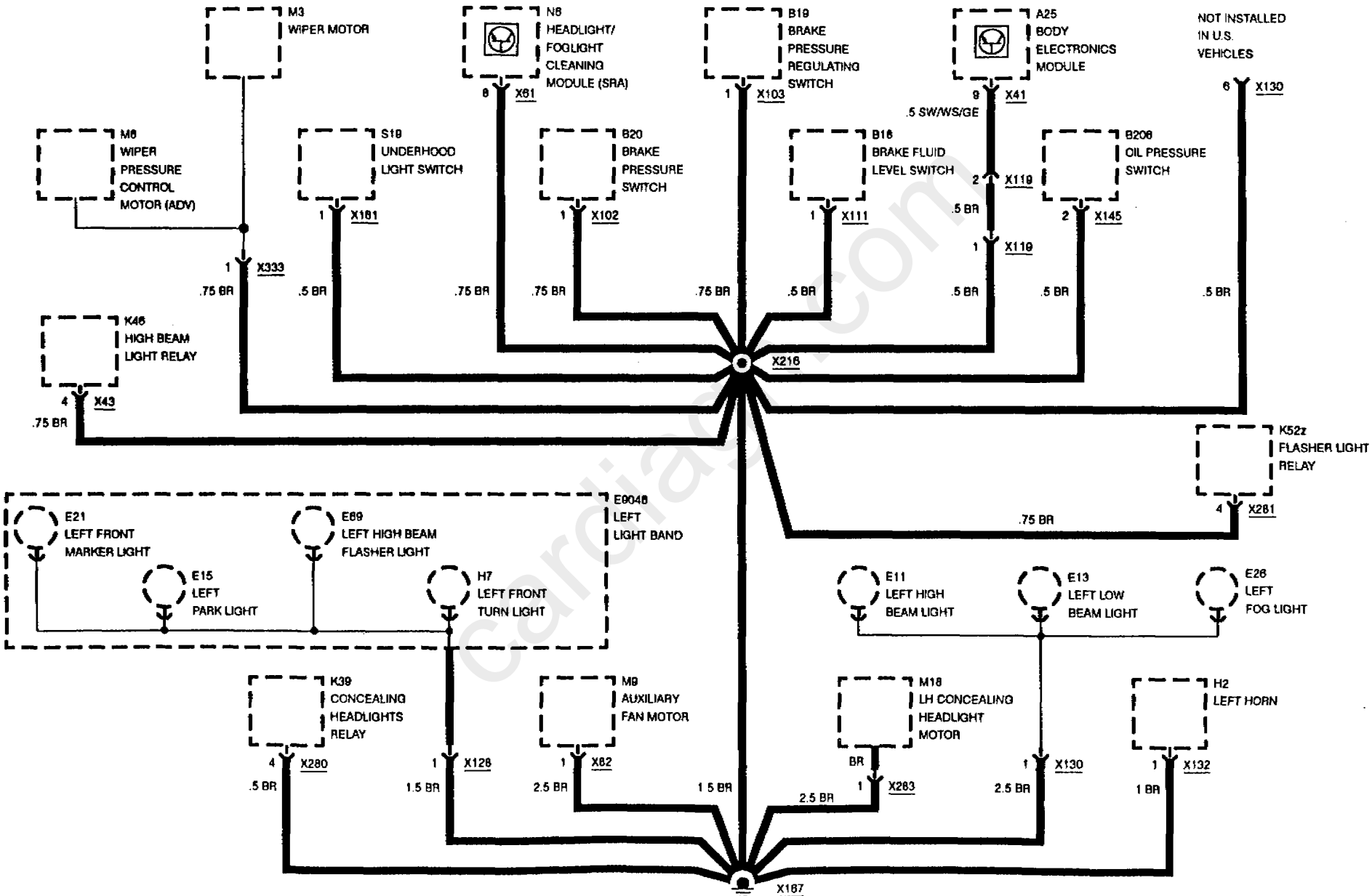
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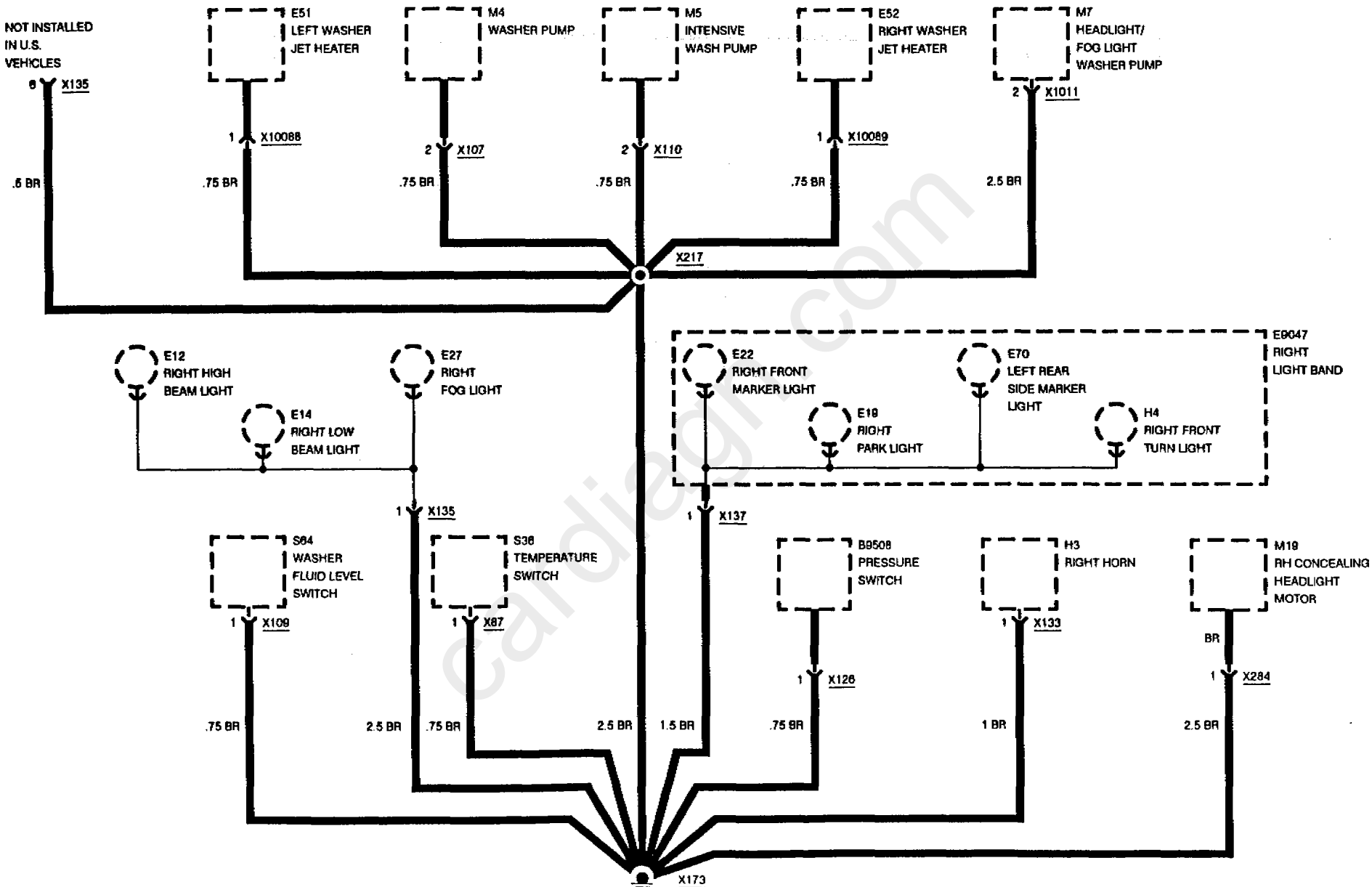
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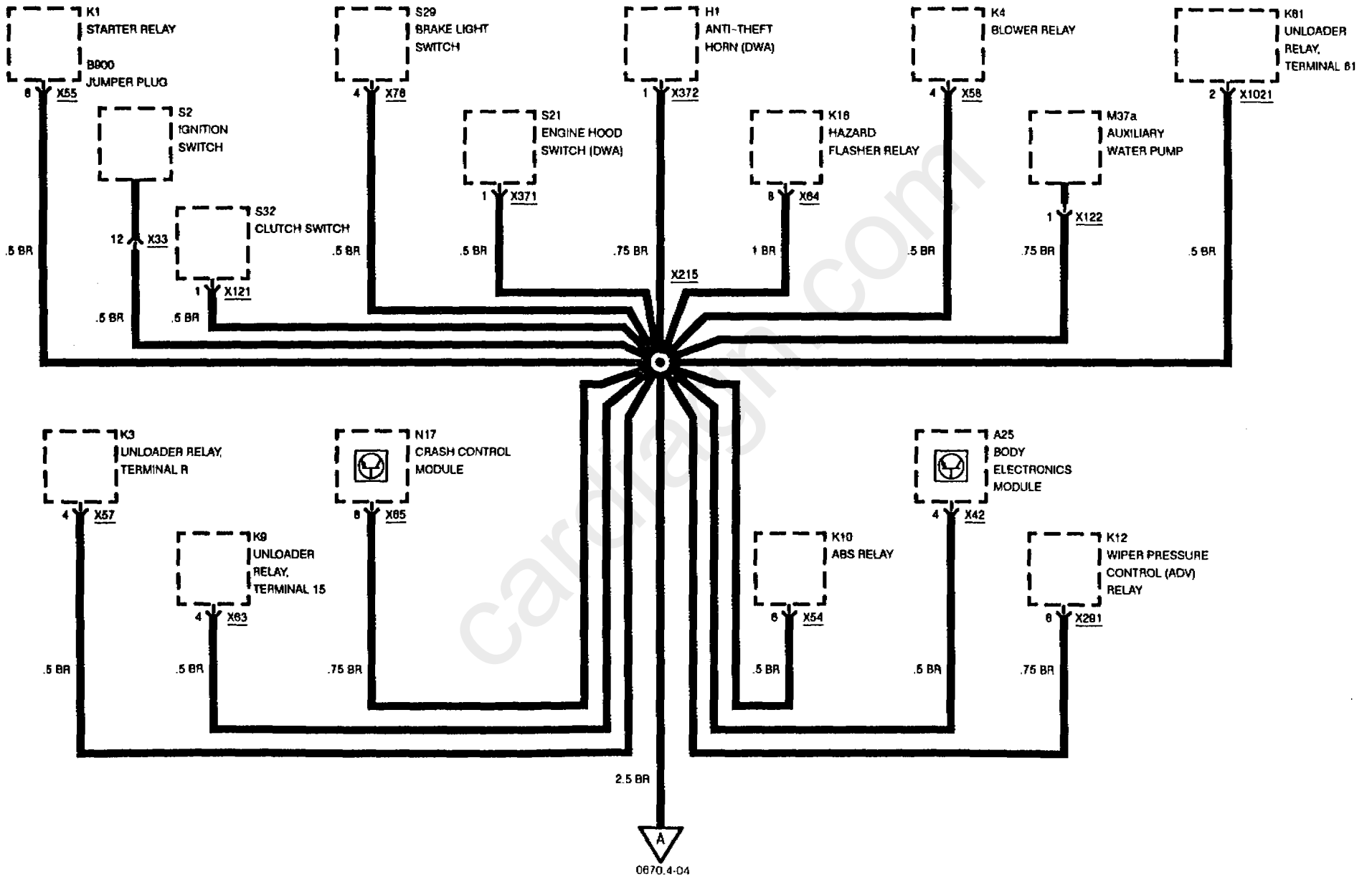
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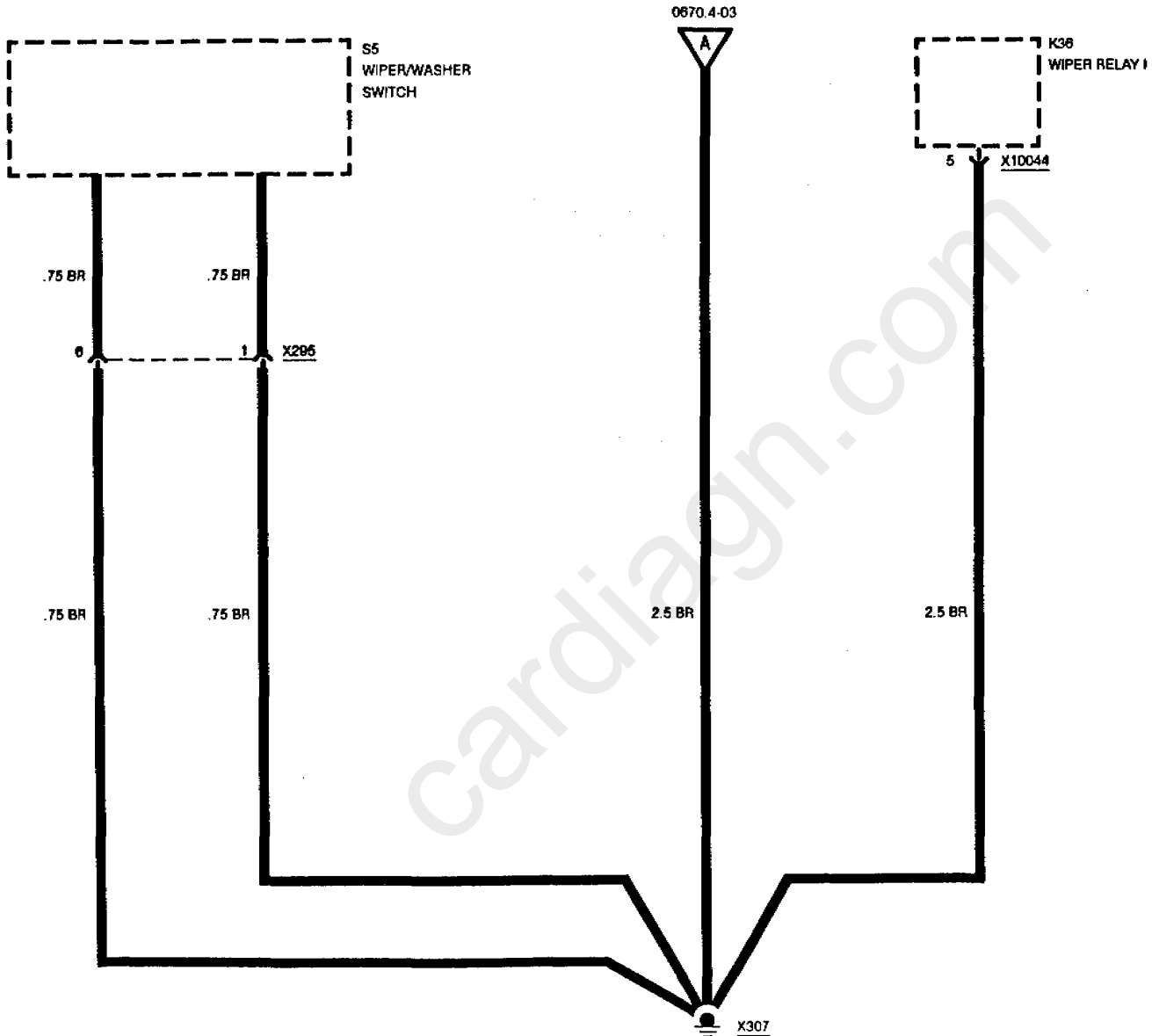
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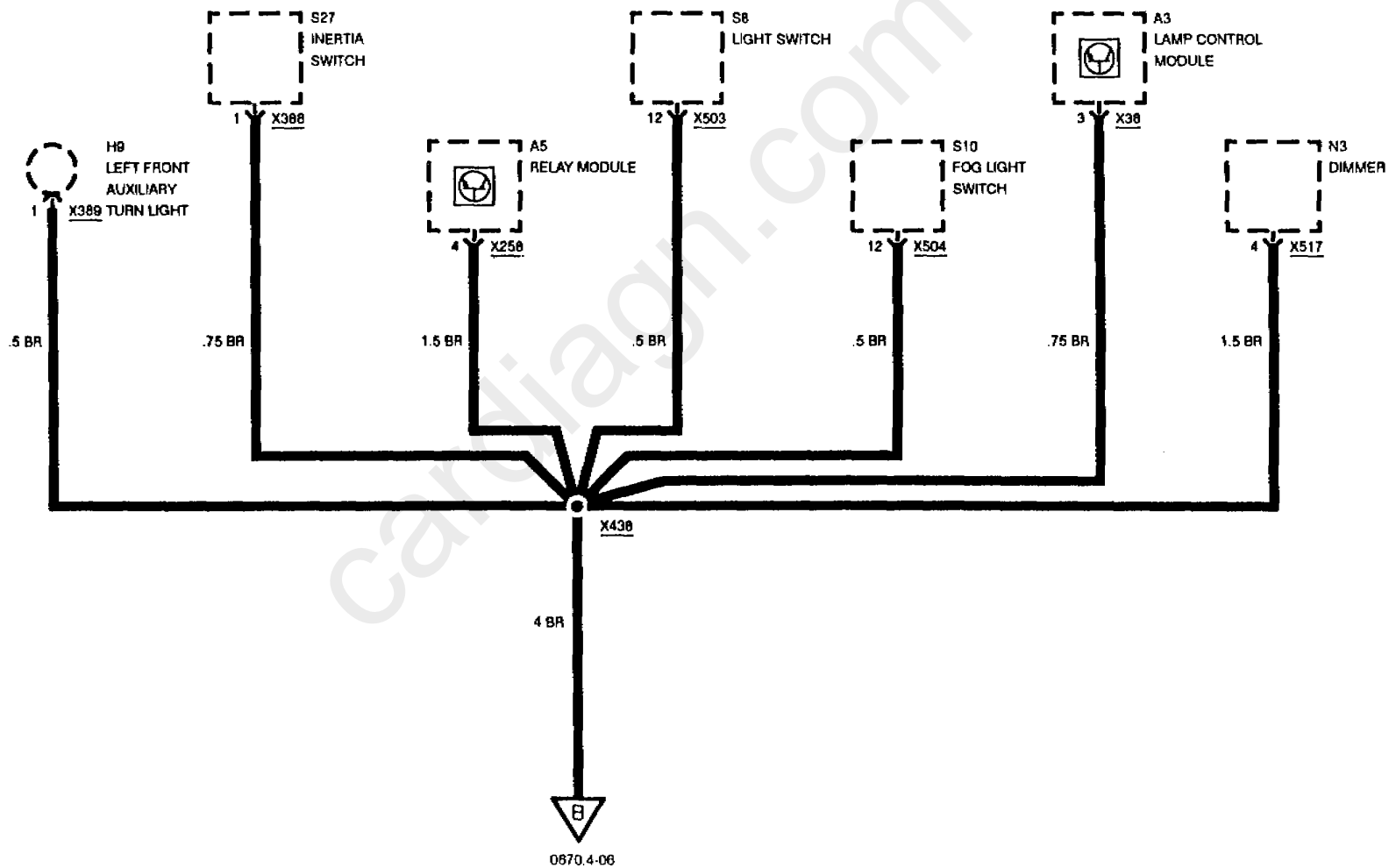
GROUND X307



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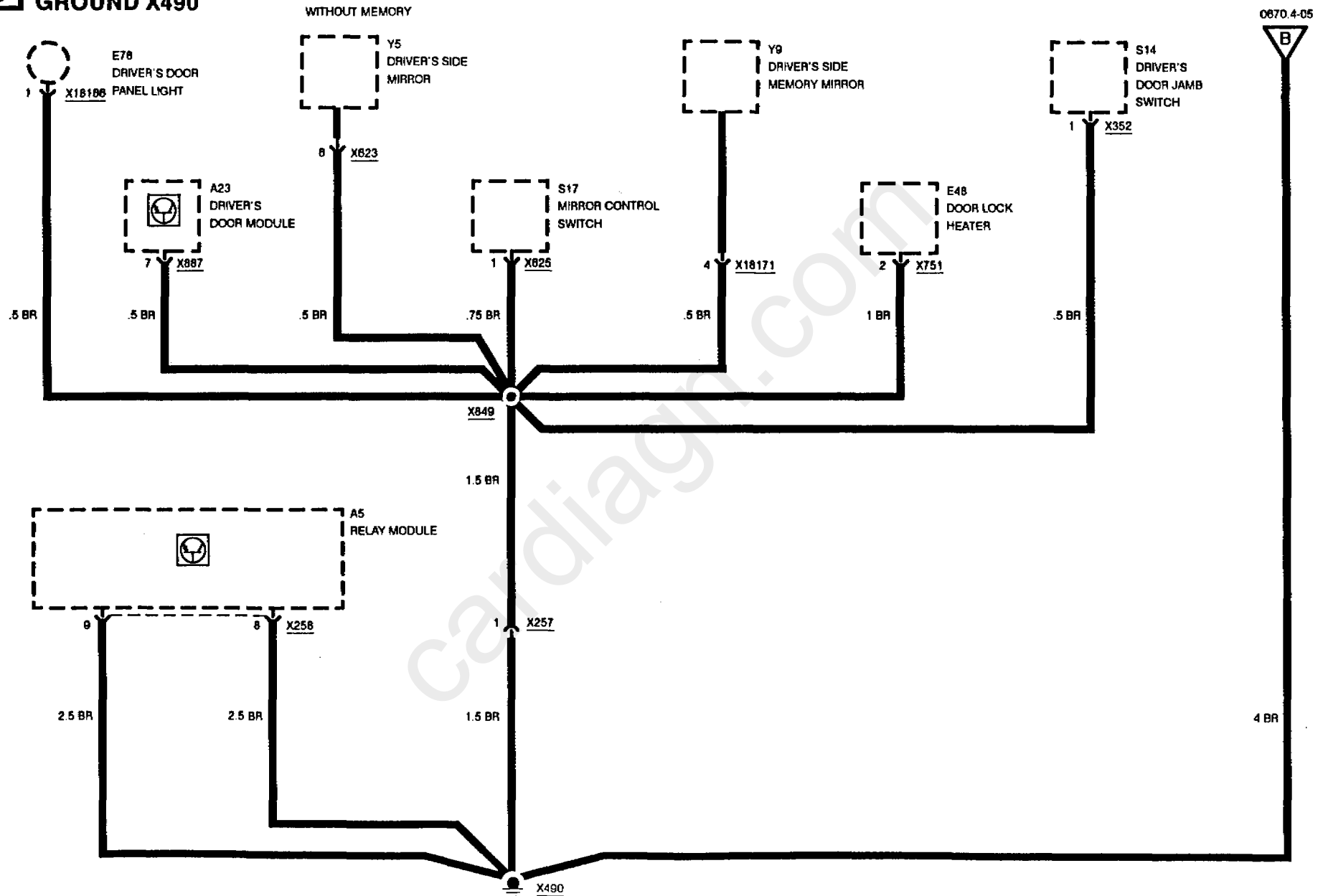
GROUND X490



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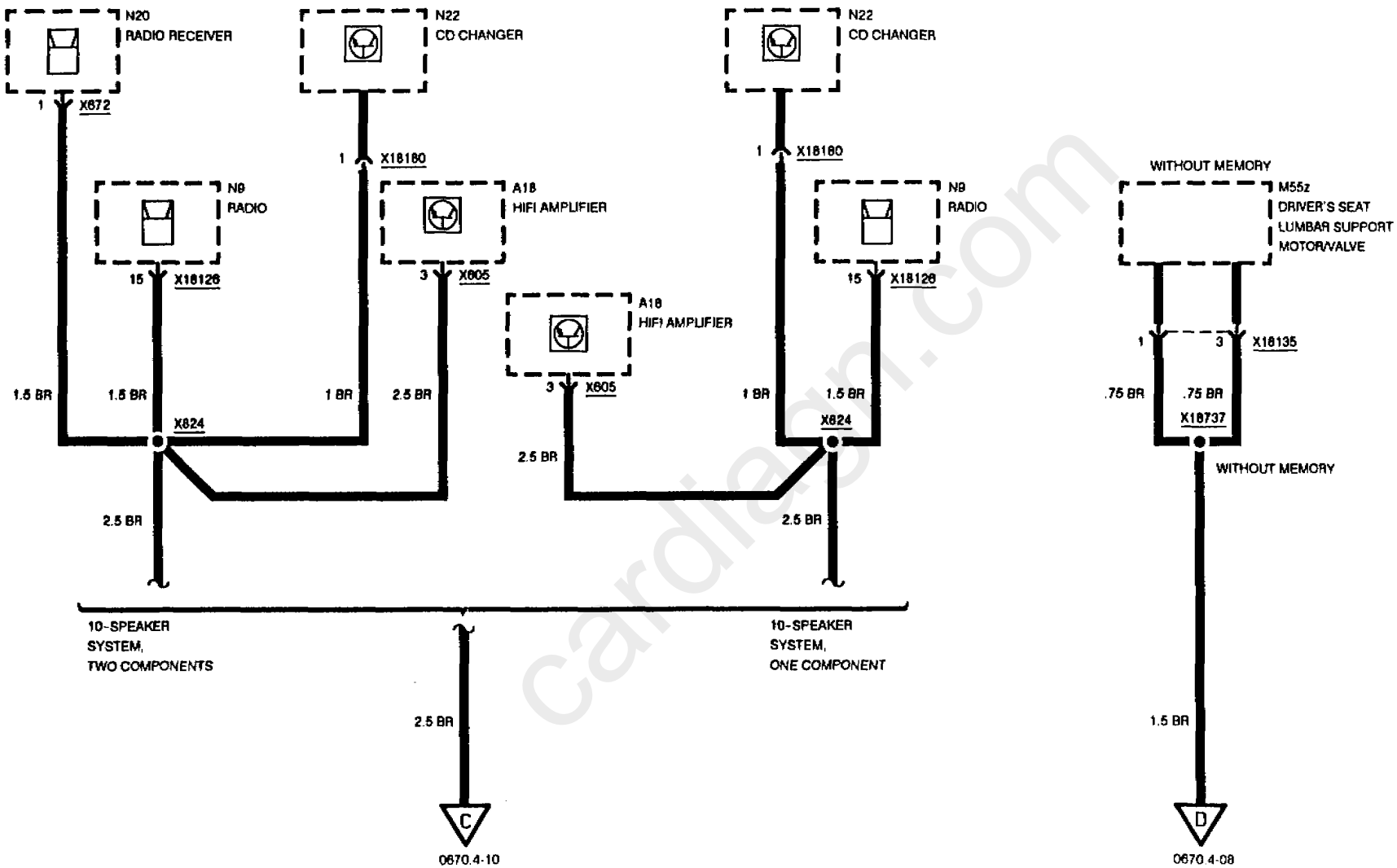
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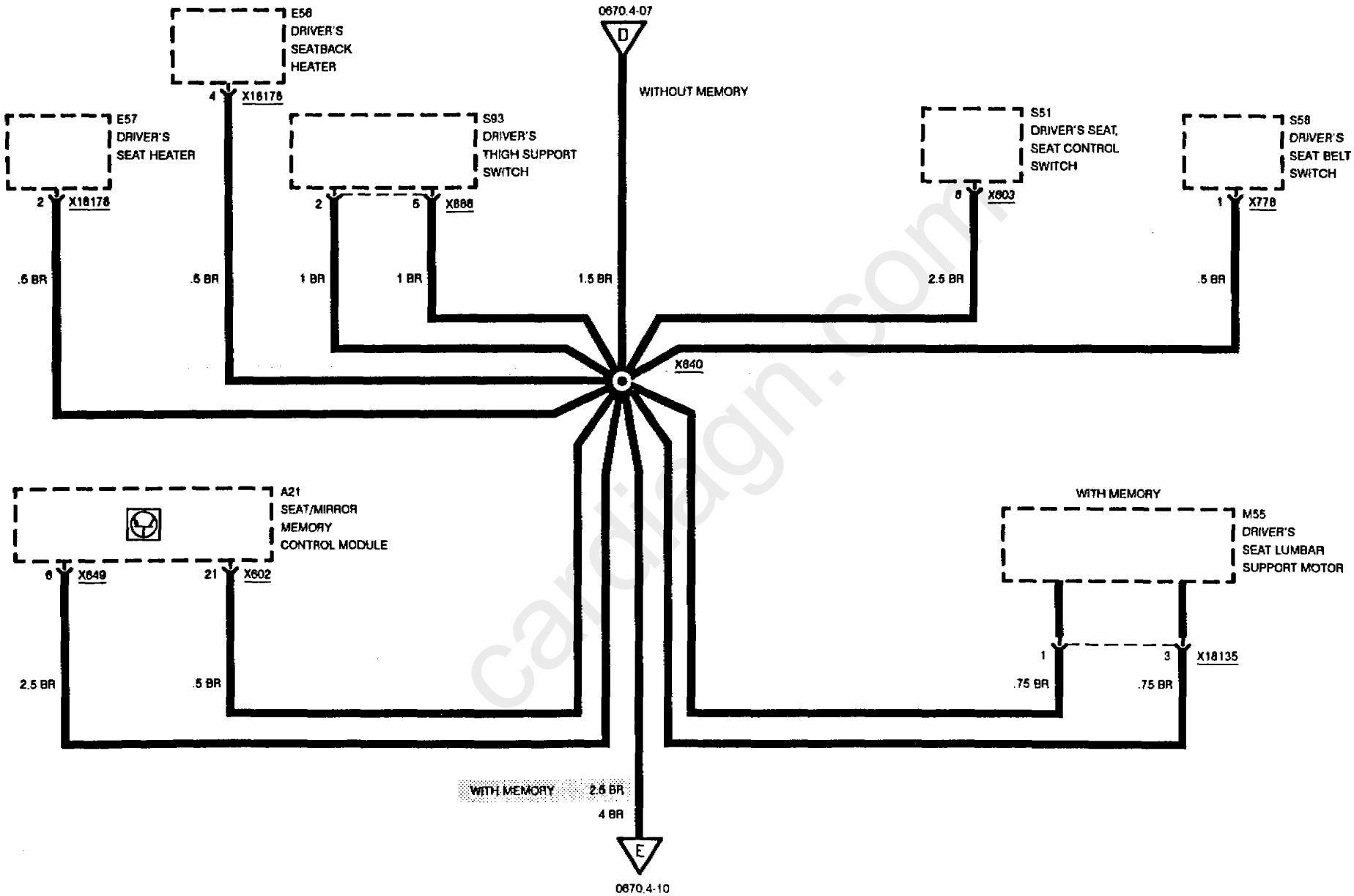
GROUND X492



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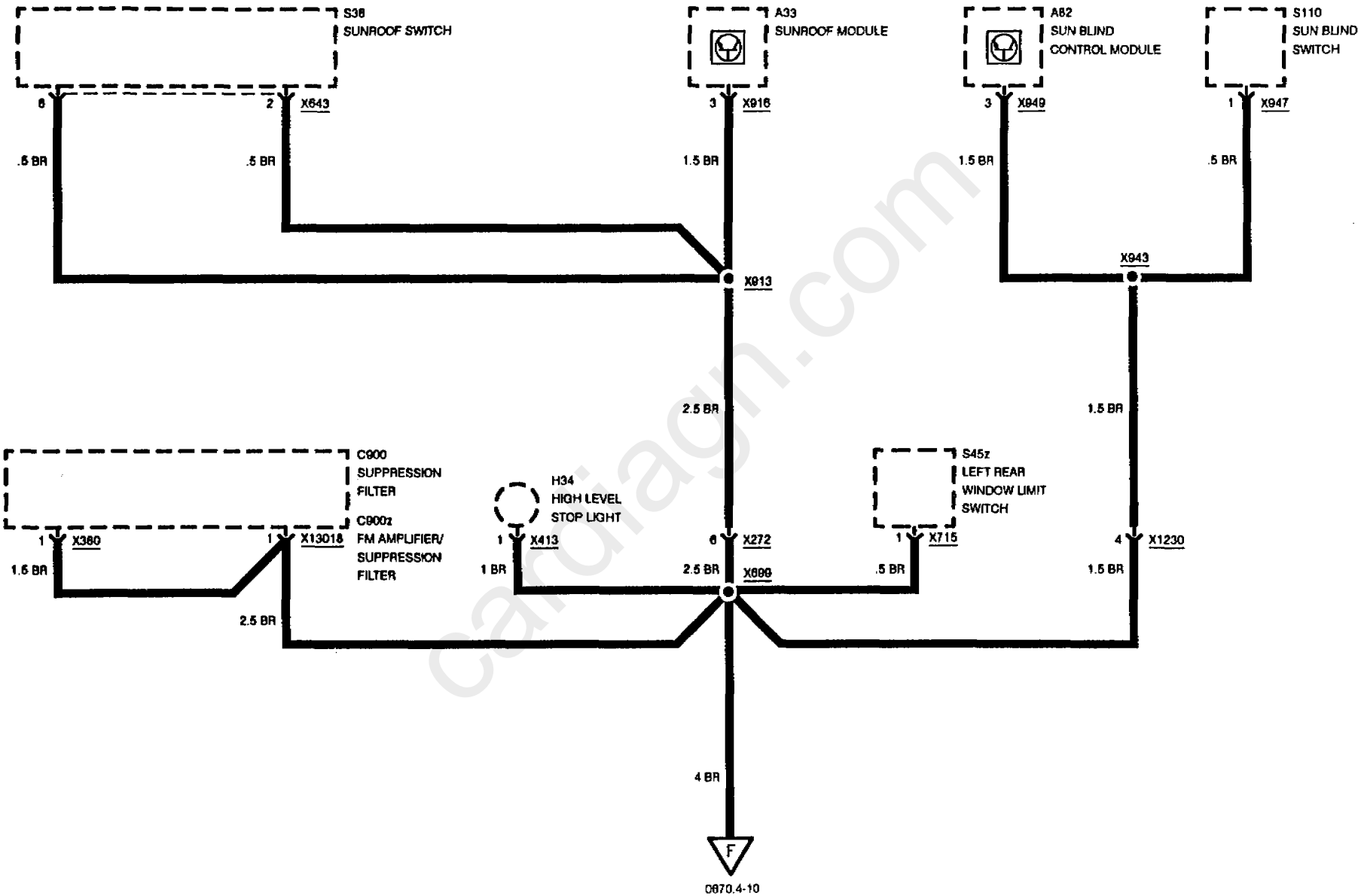
GROUND X492



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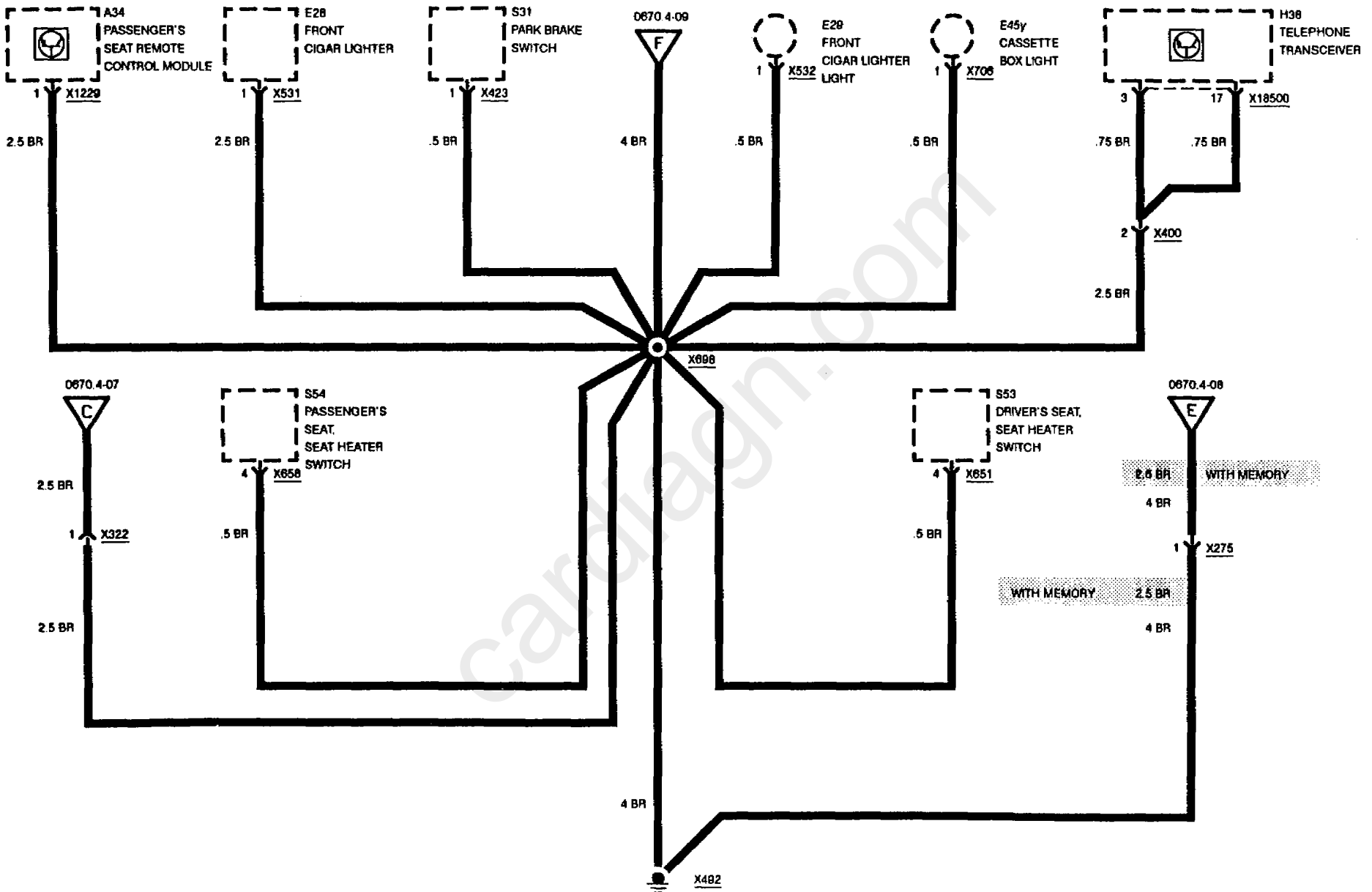
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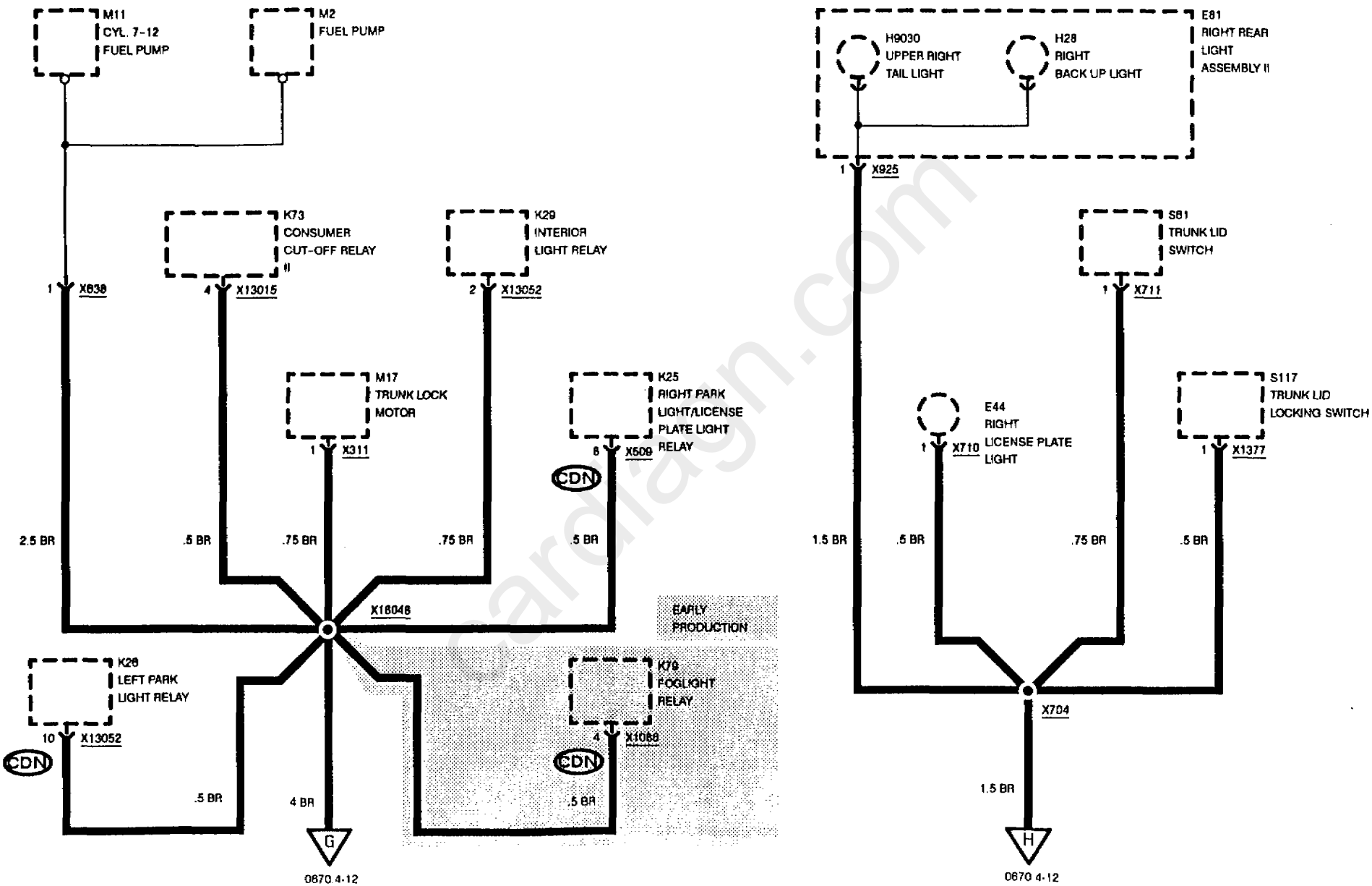
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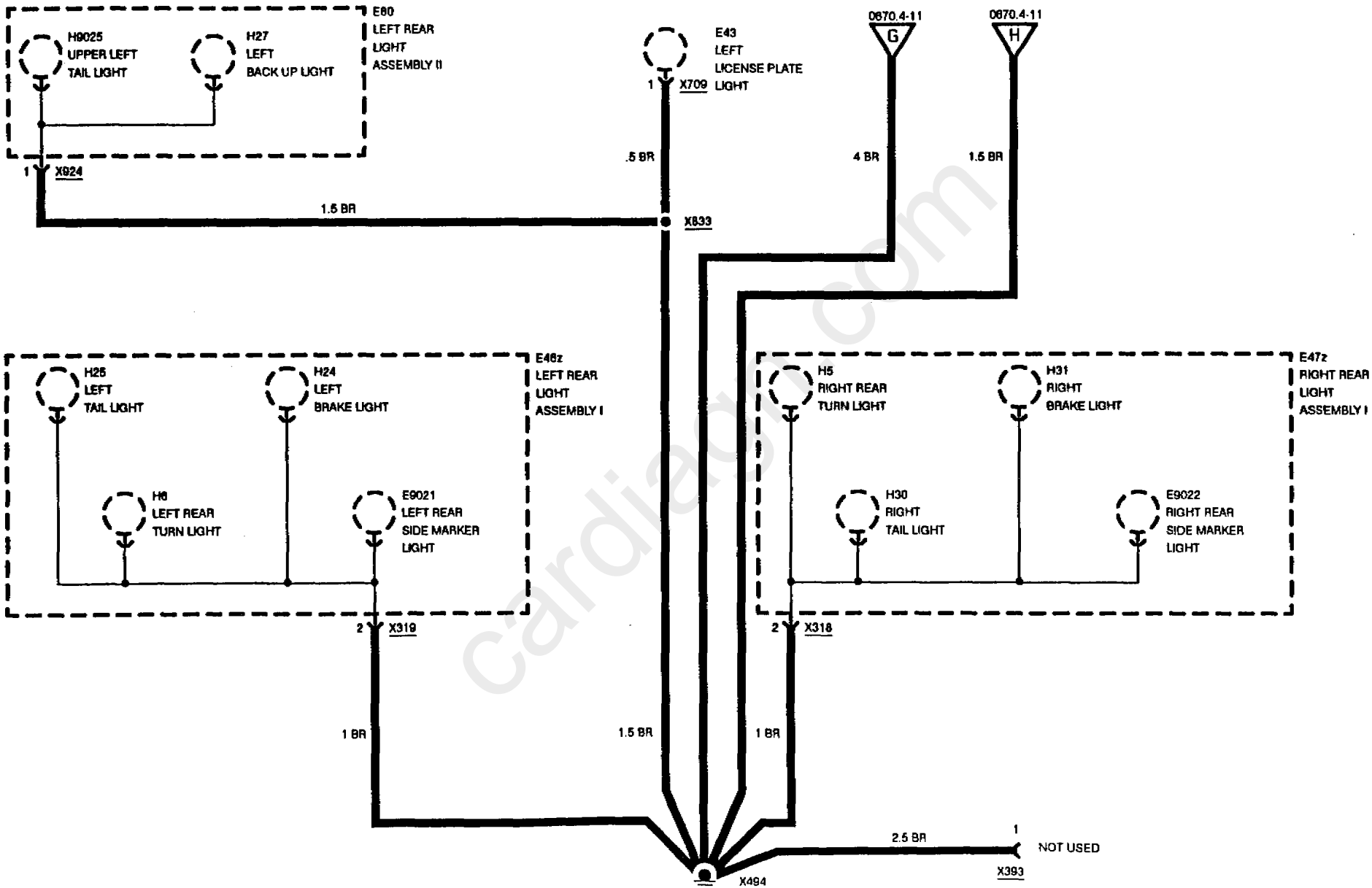
GROUND X494



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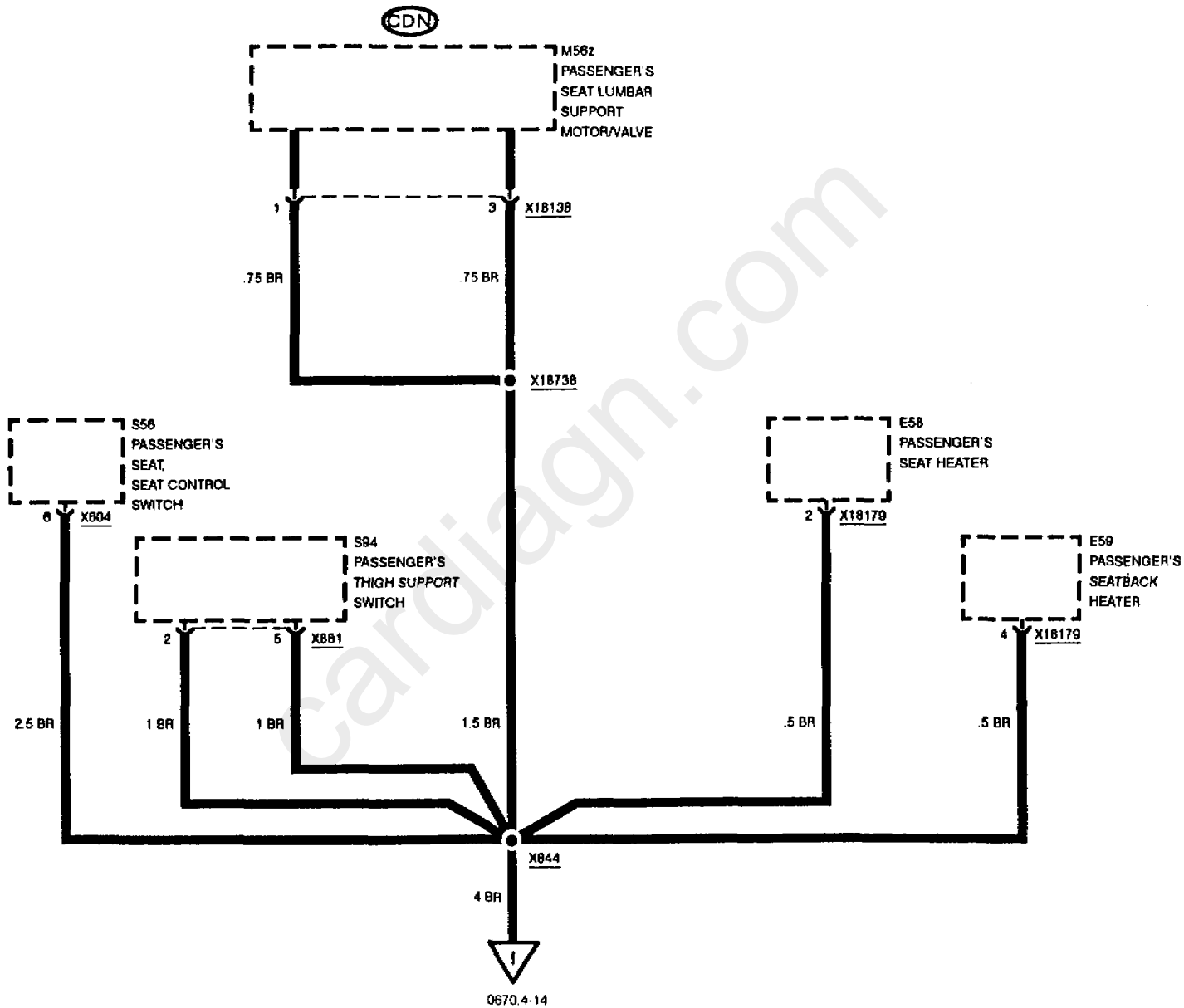
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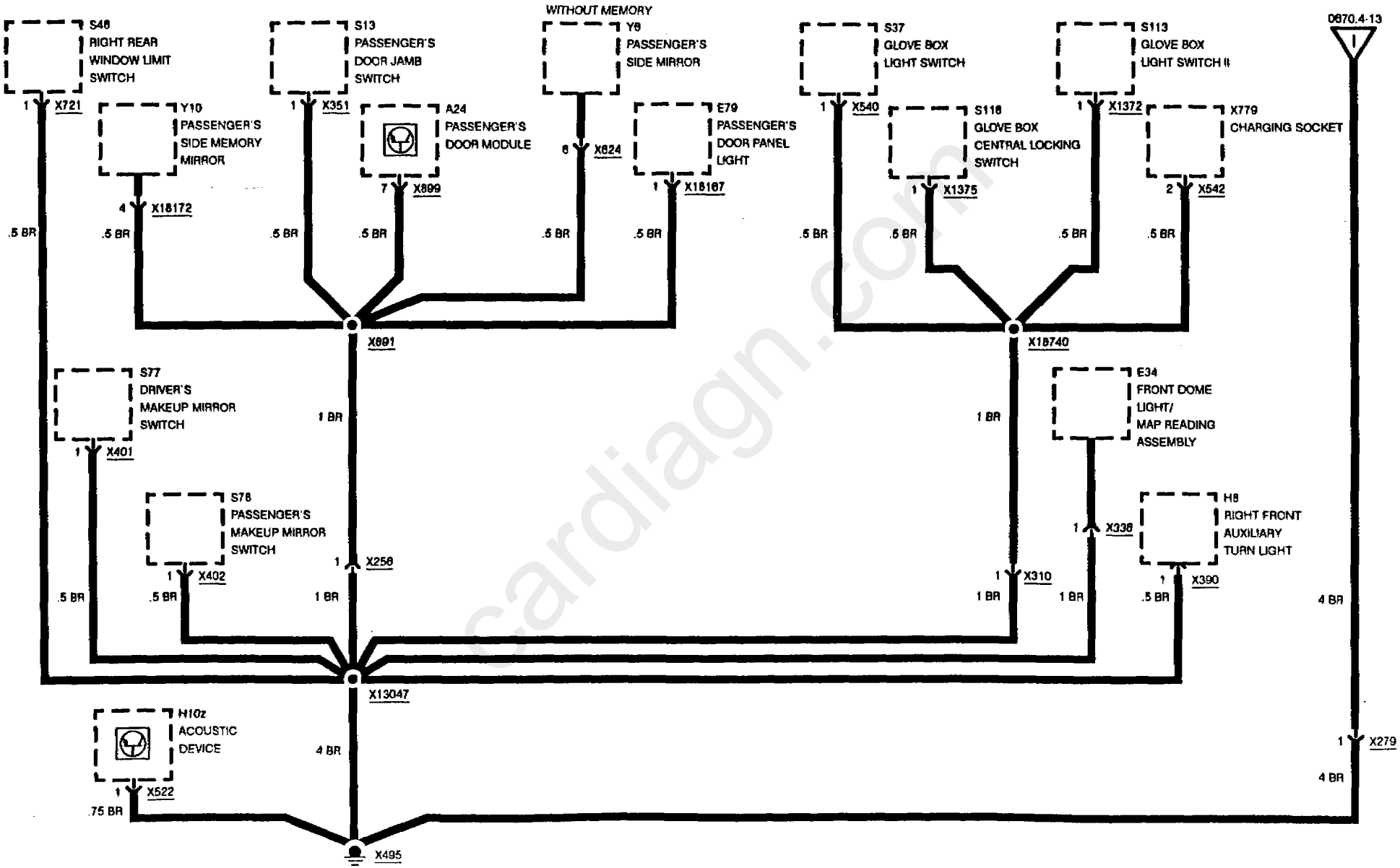
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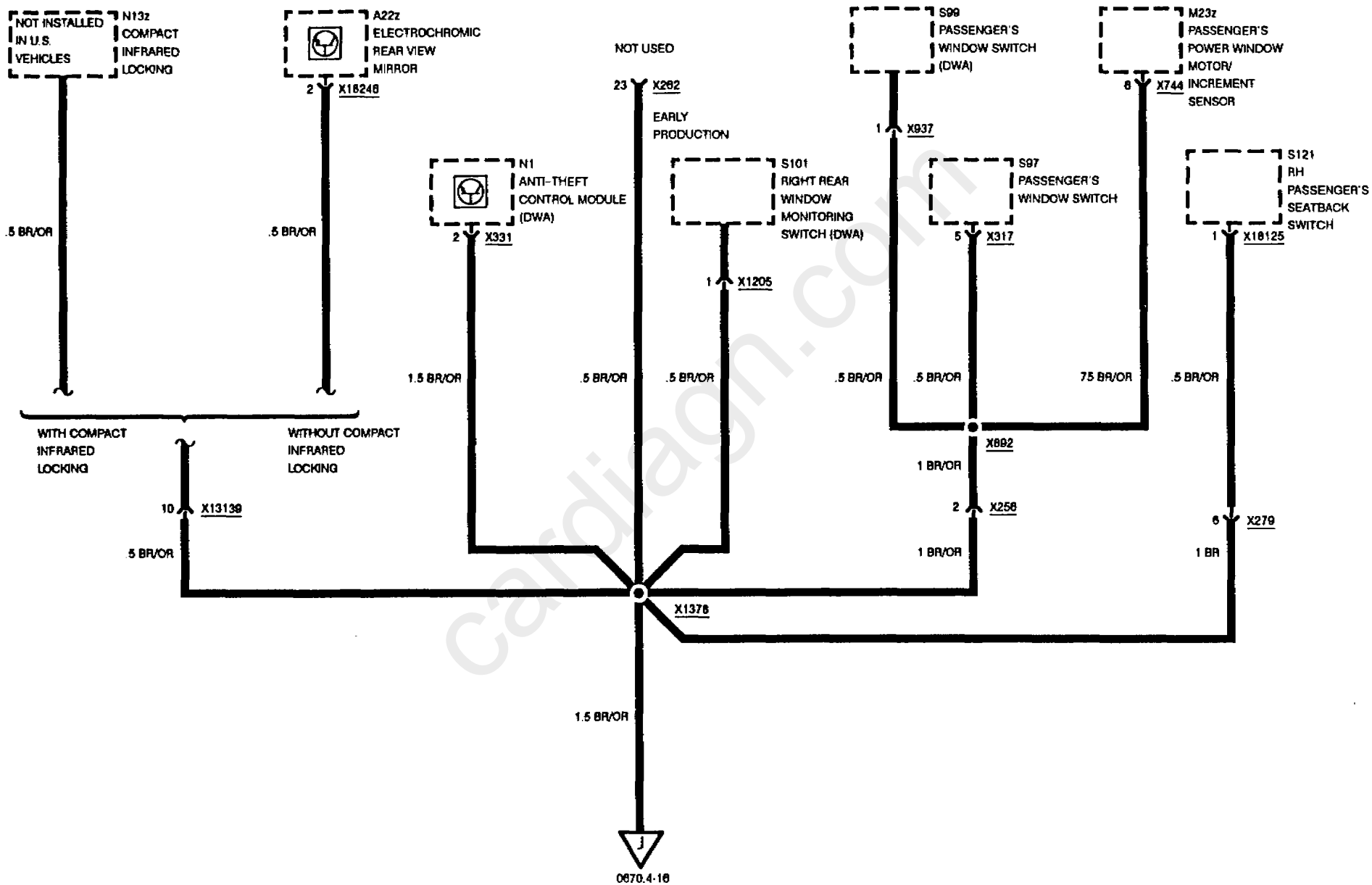
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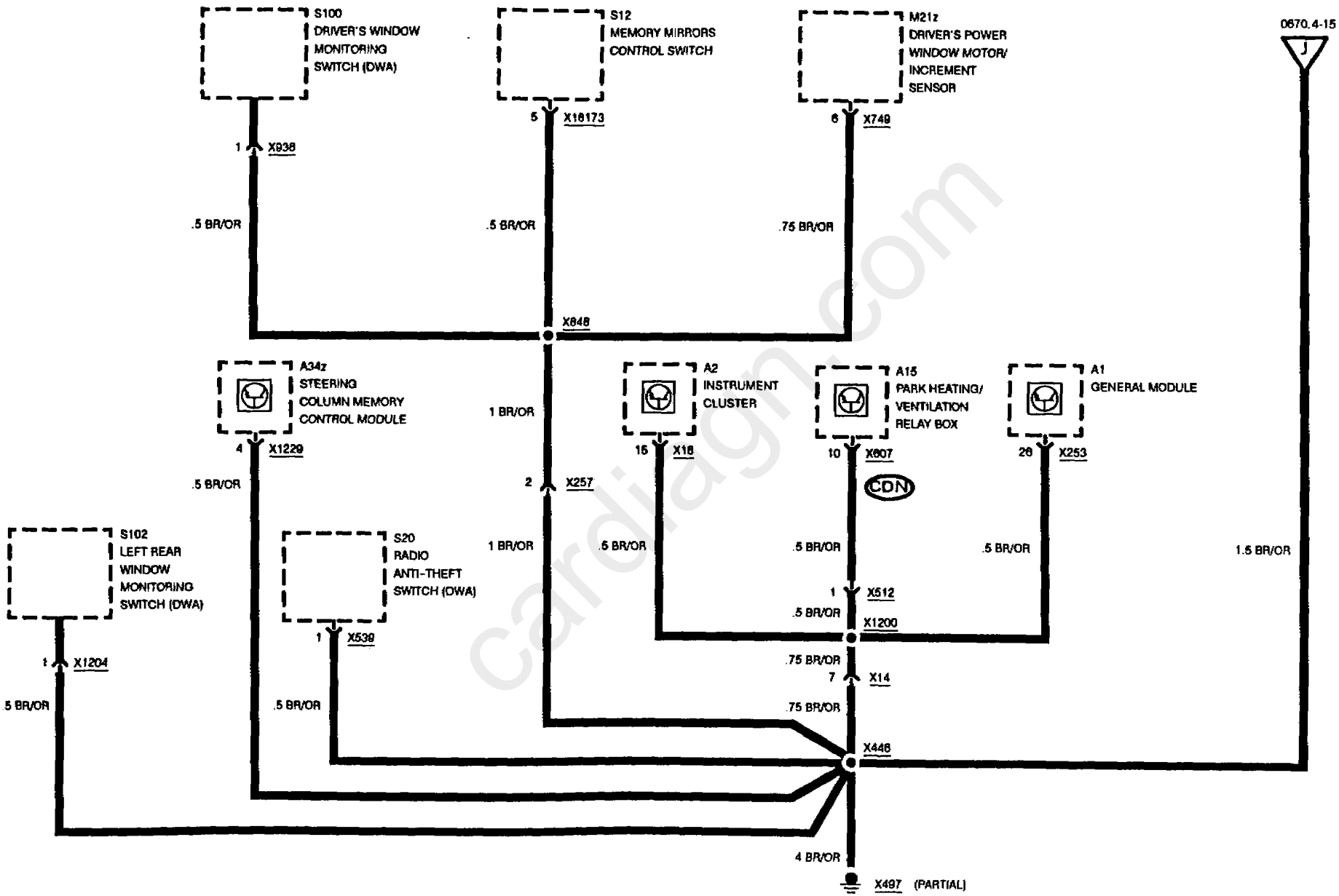
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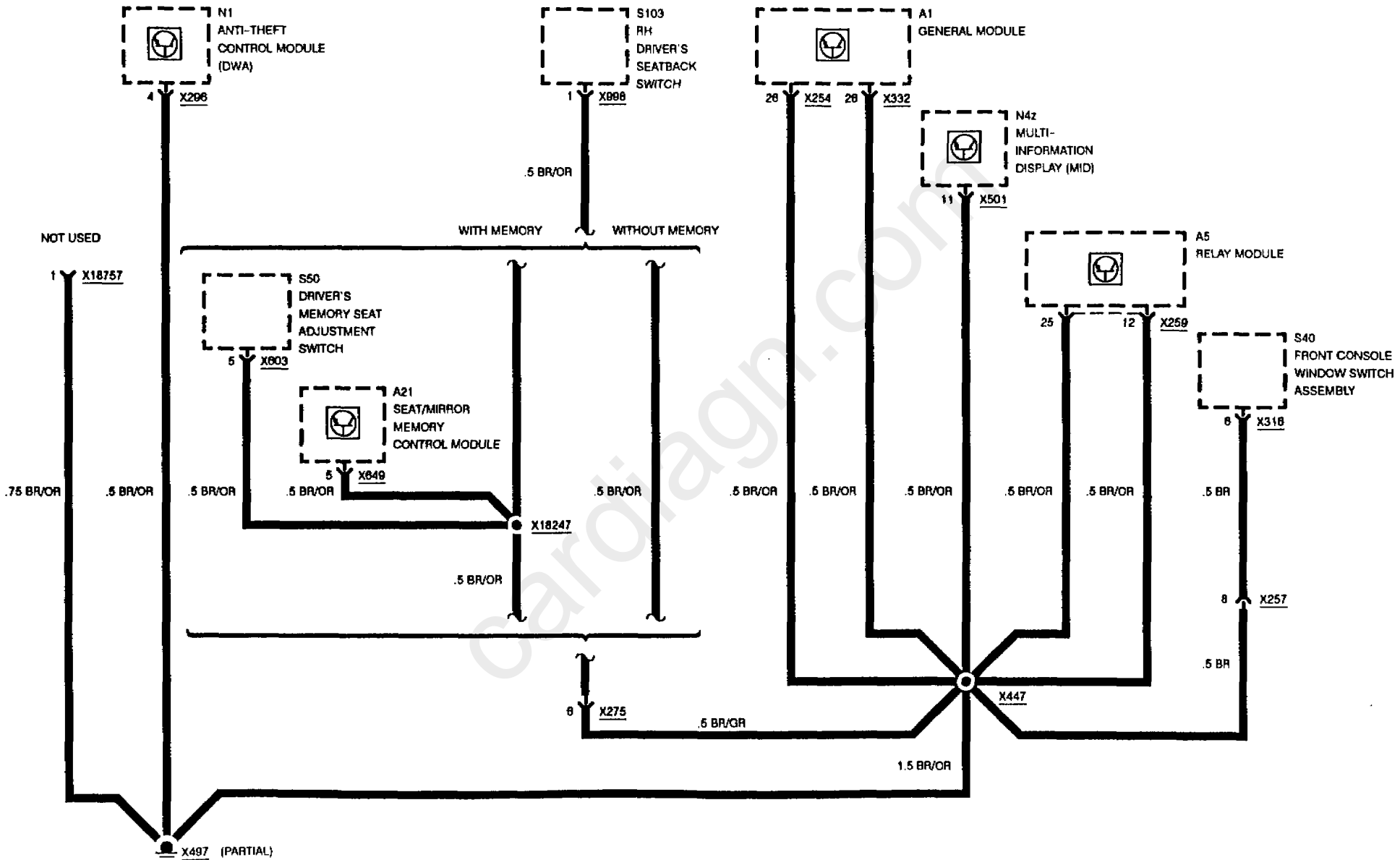
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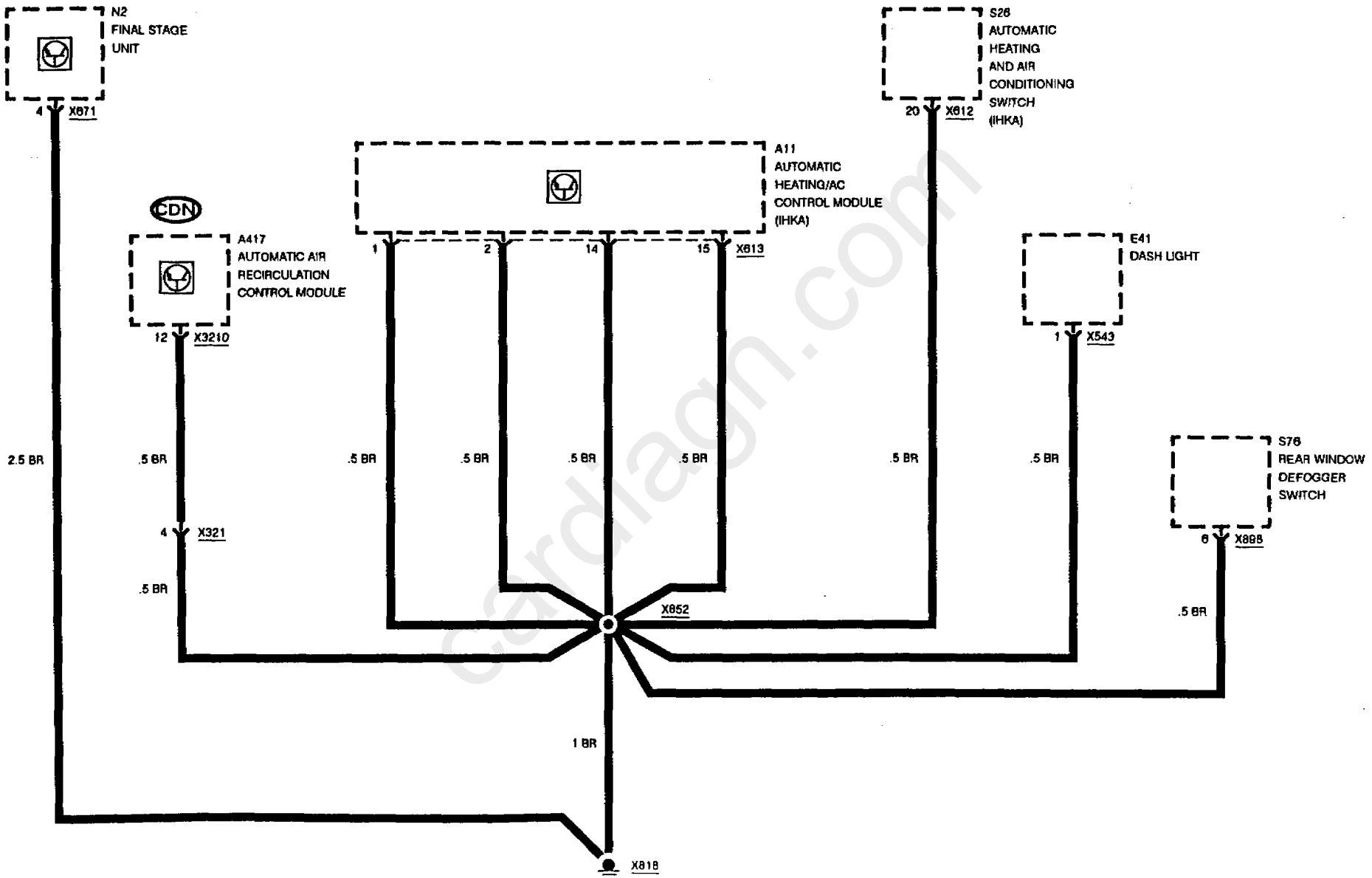
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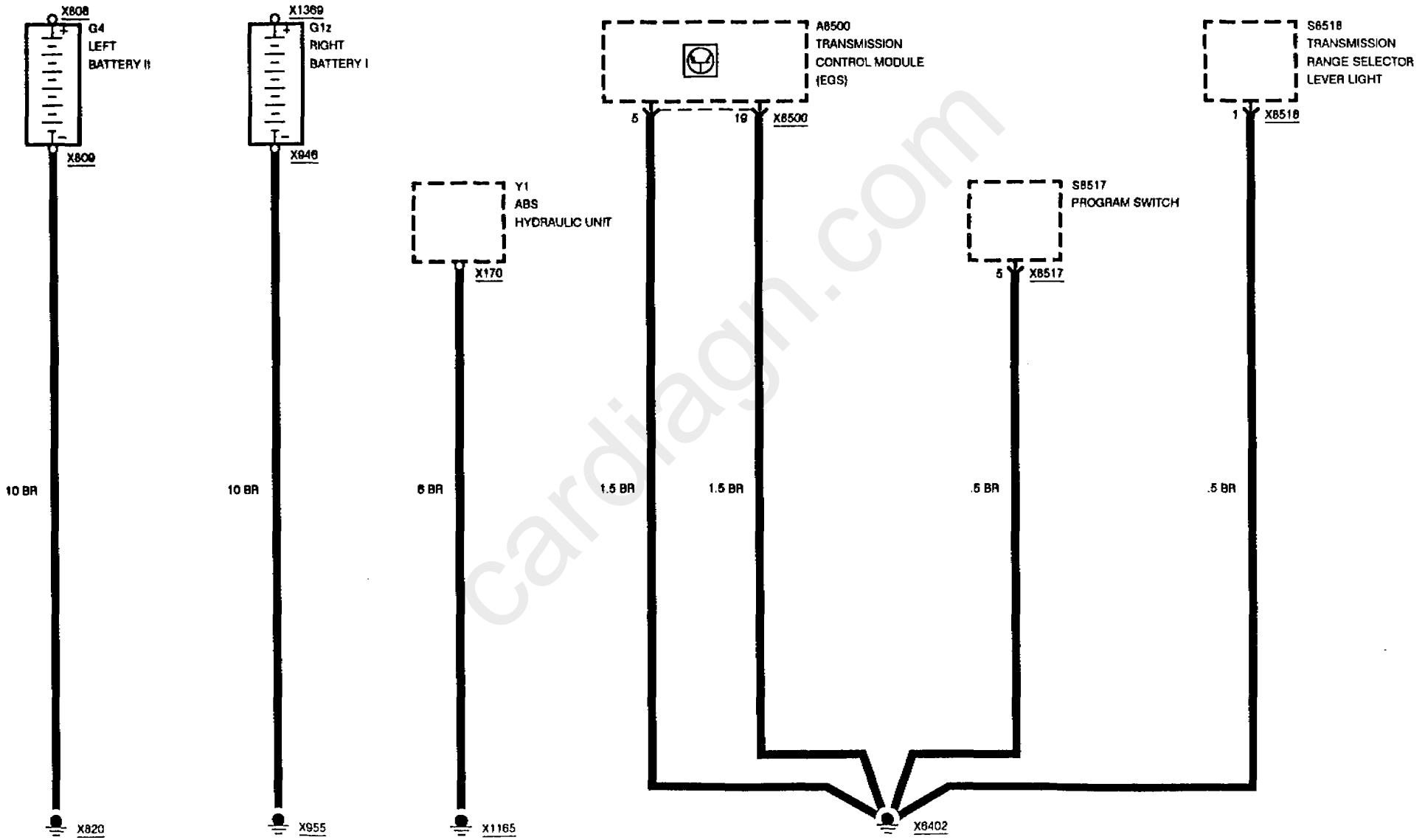
GROUND X818



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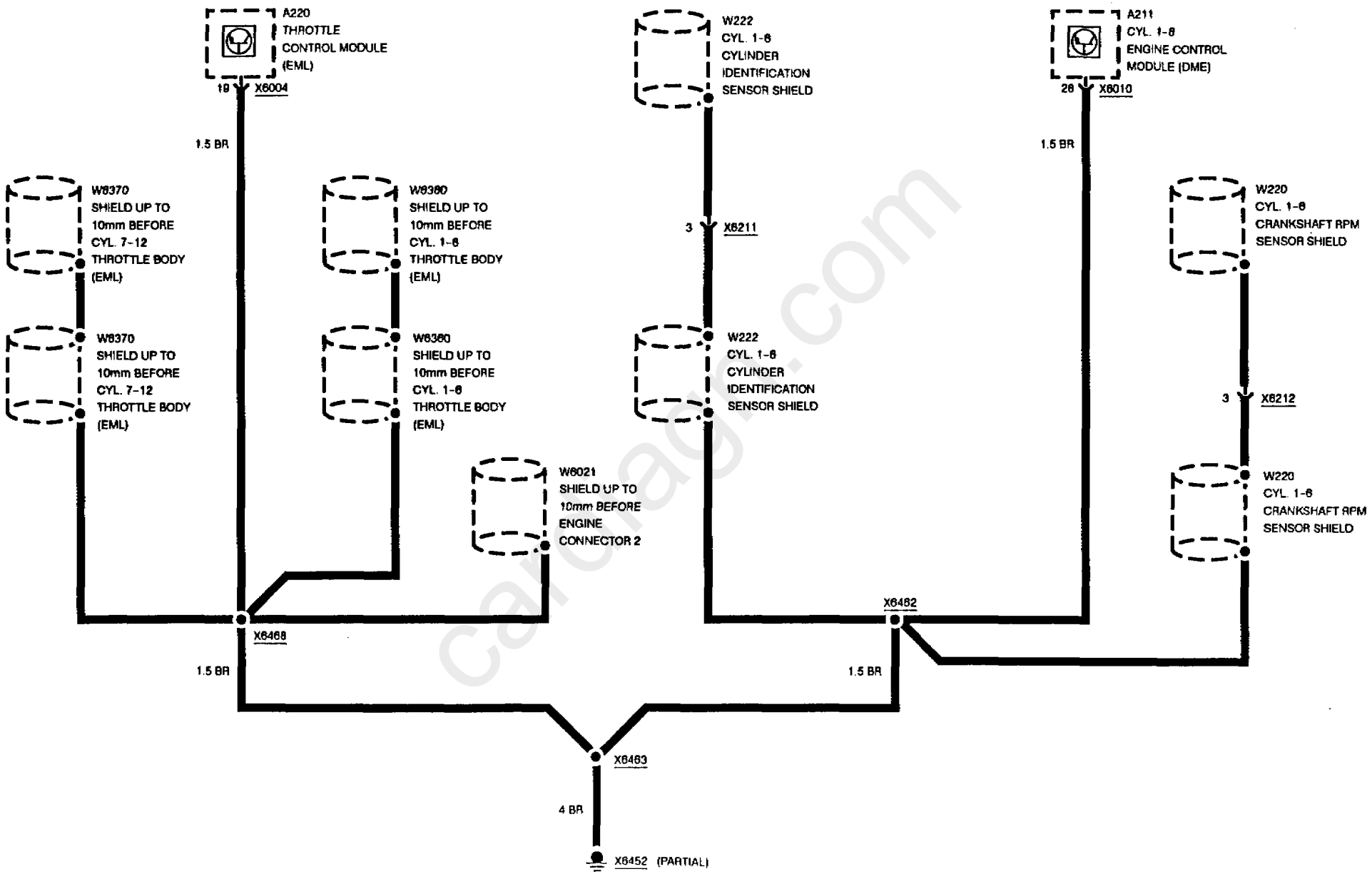
GROUNDS X820, X955, X1165, AND X6402



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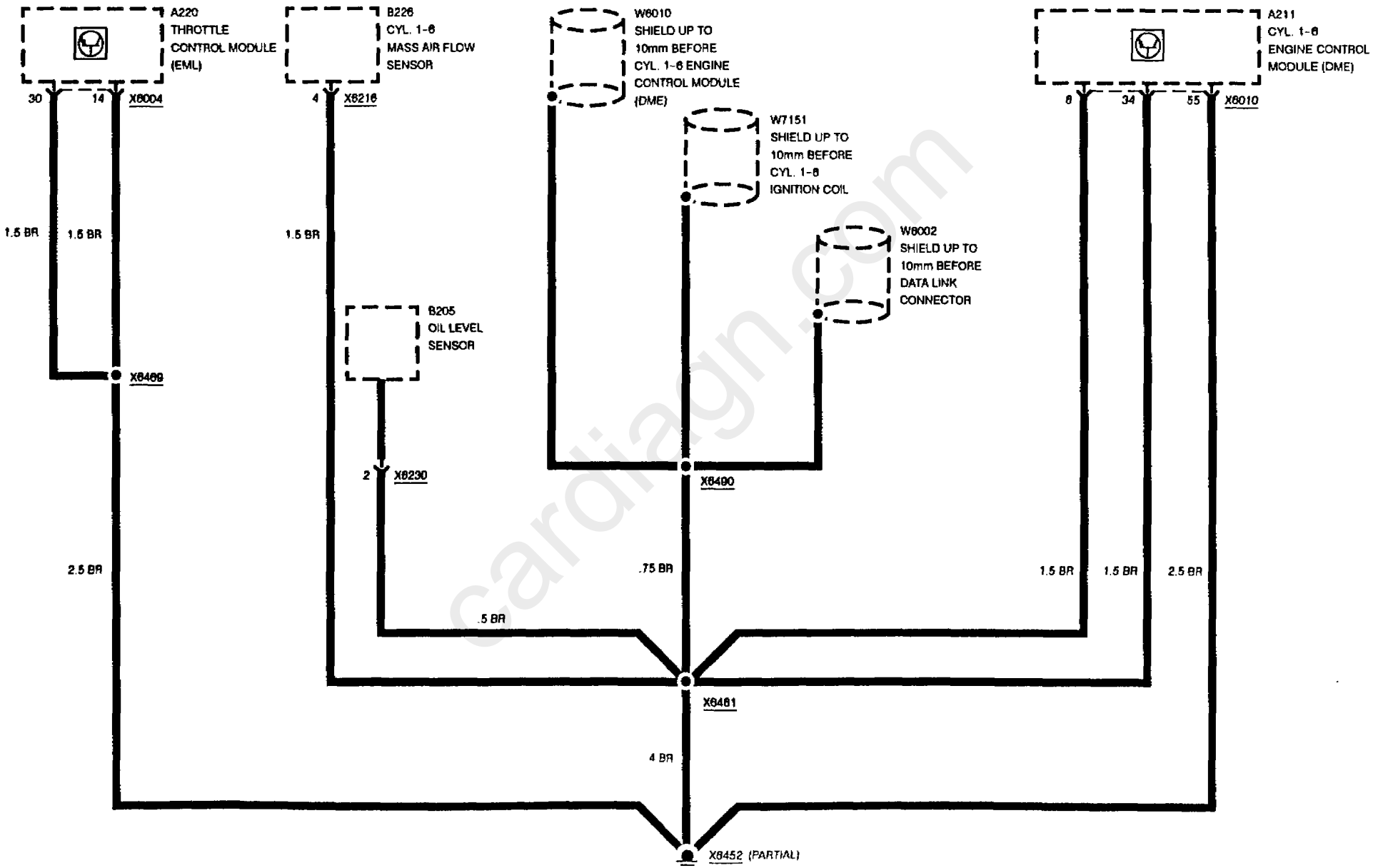
GROUND X6452



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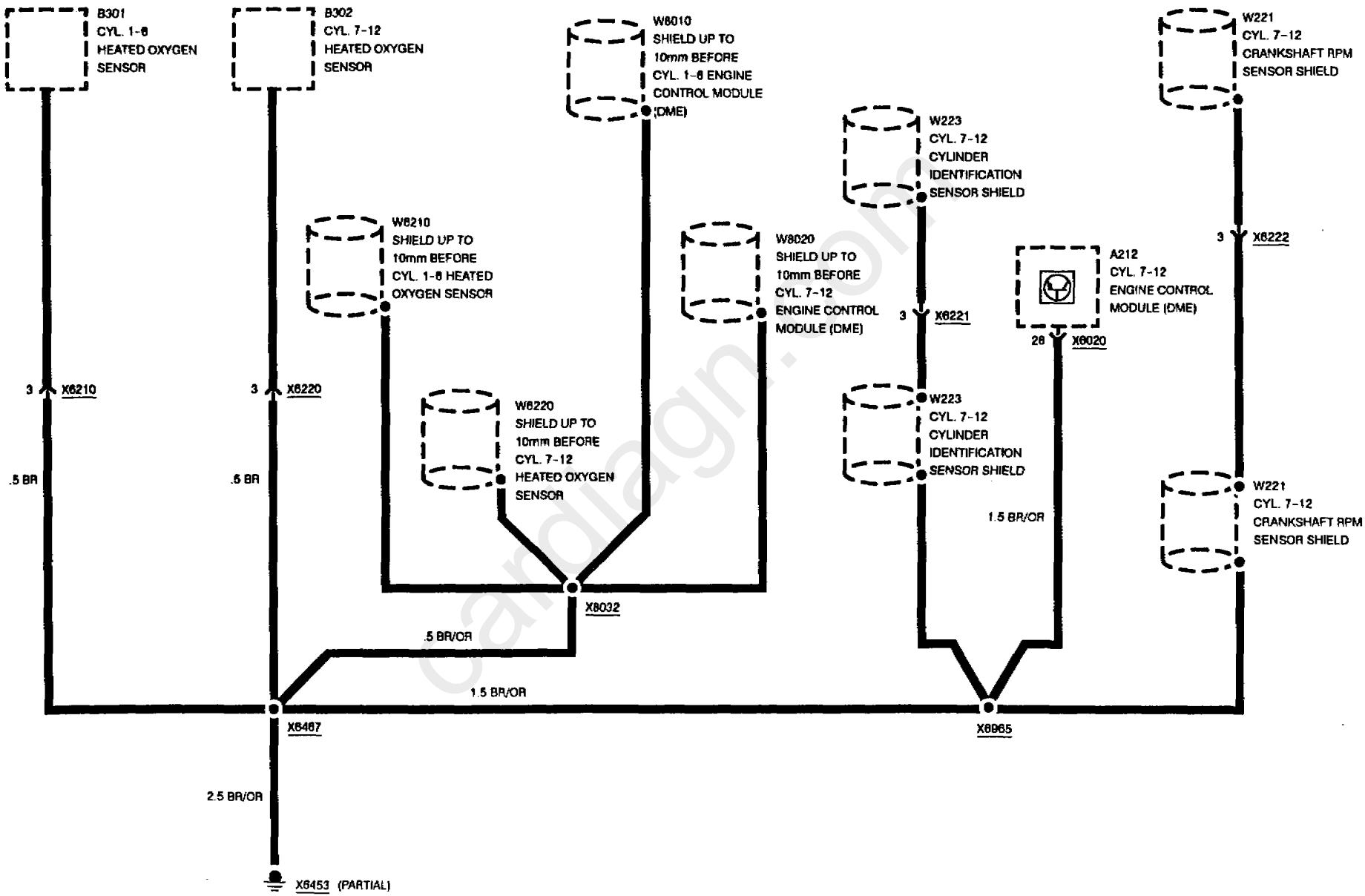
GROUND X6452



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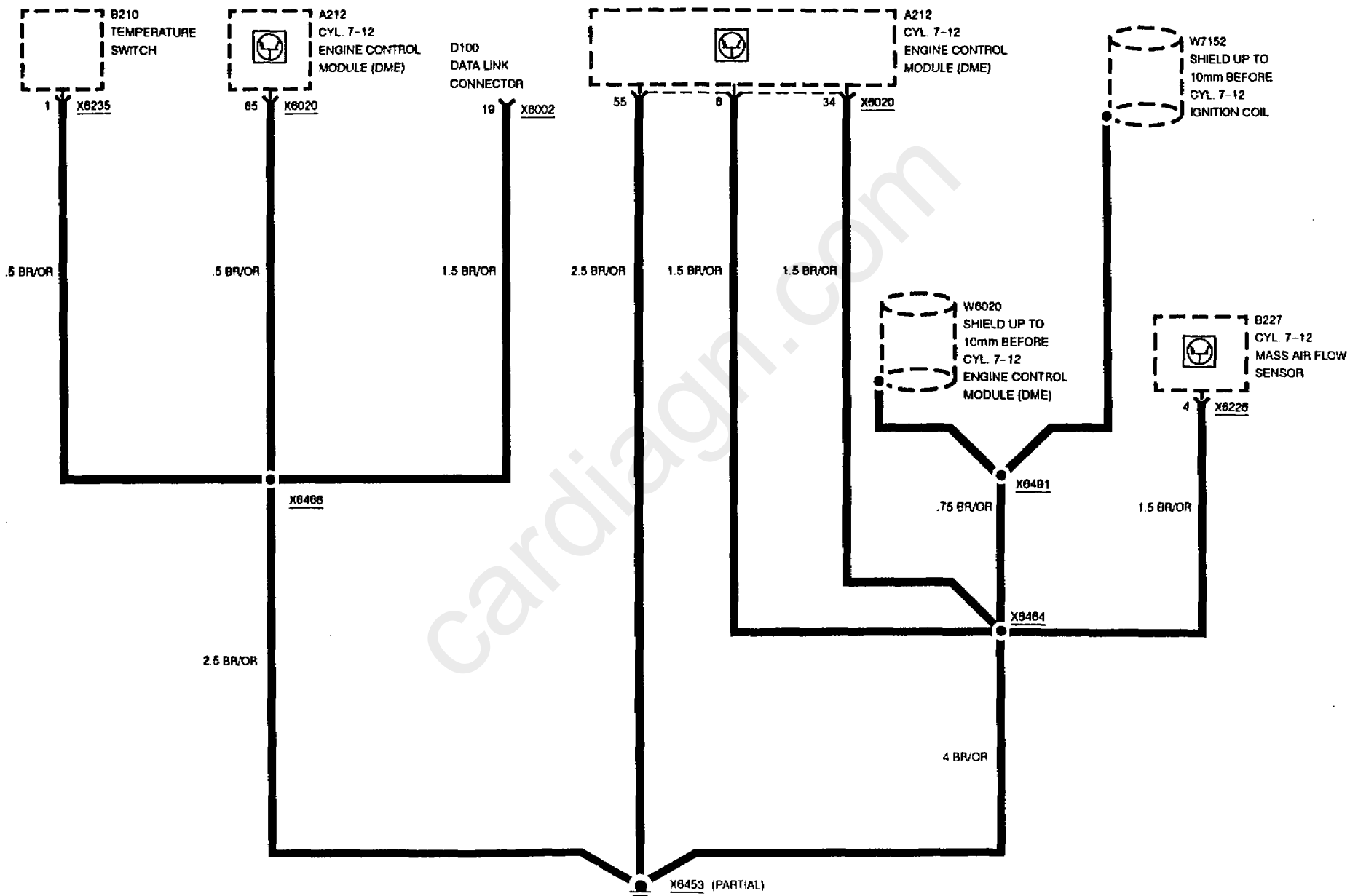
GROUND X6453



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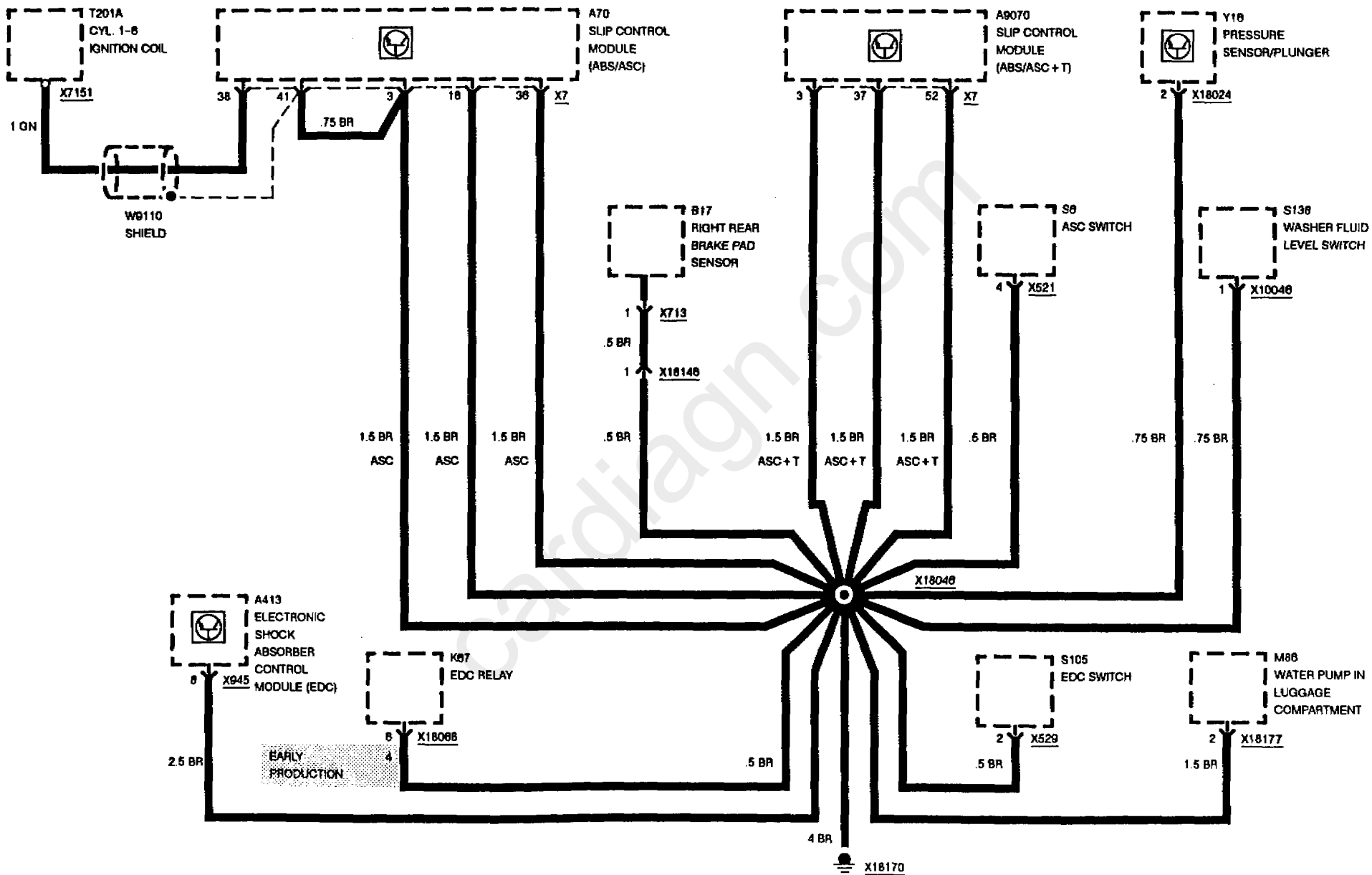
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GROUND X18170

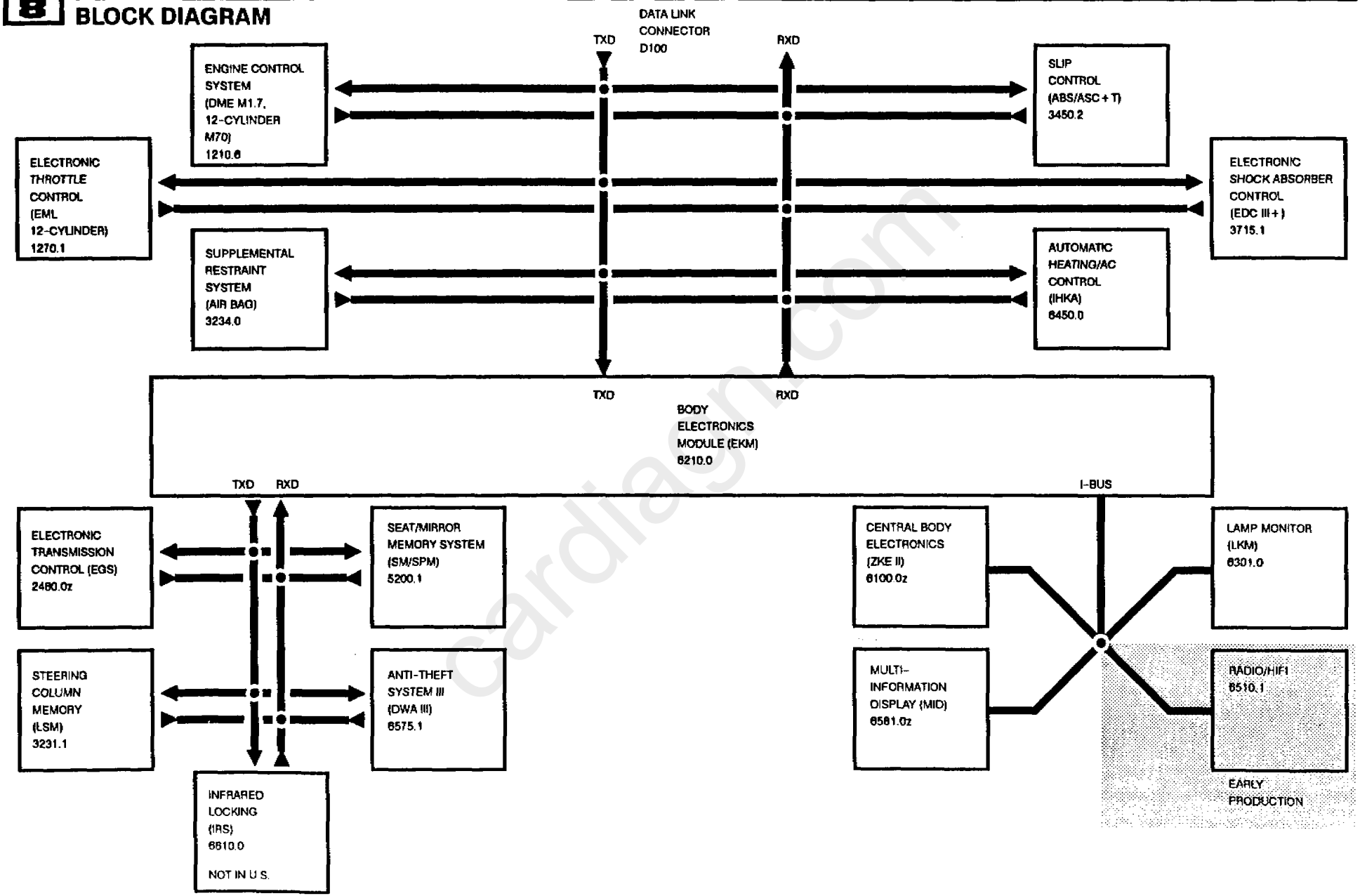


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DATA LINK

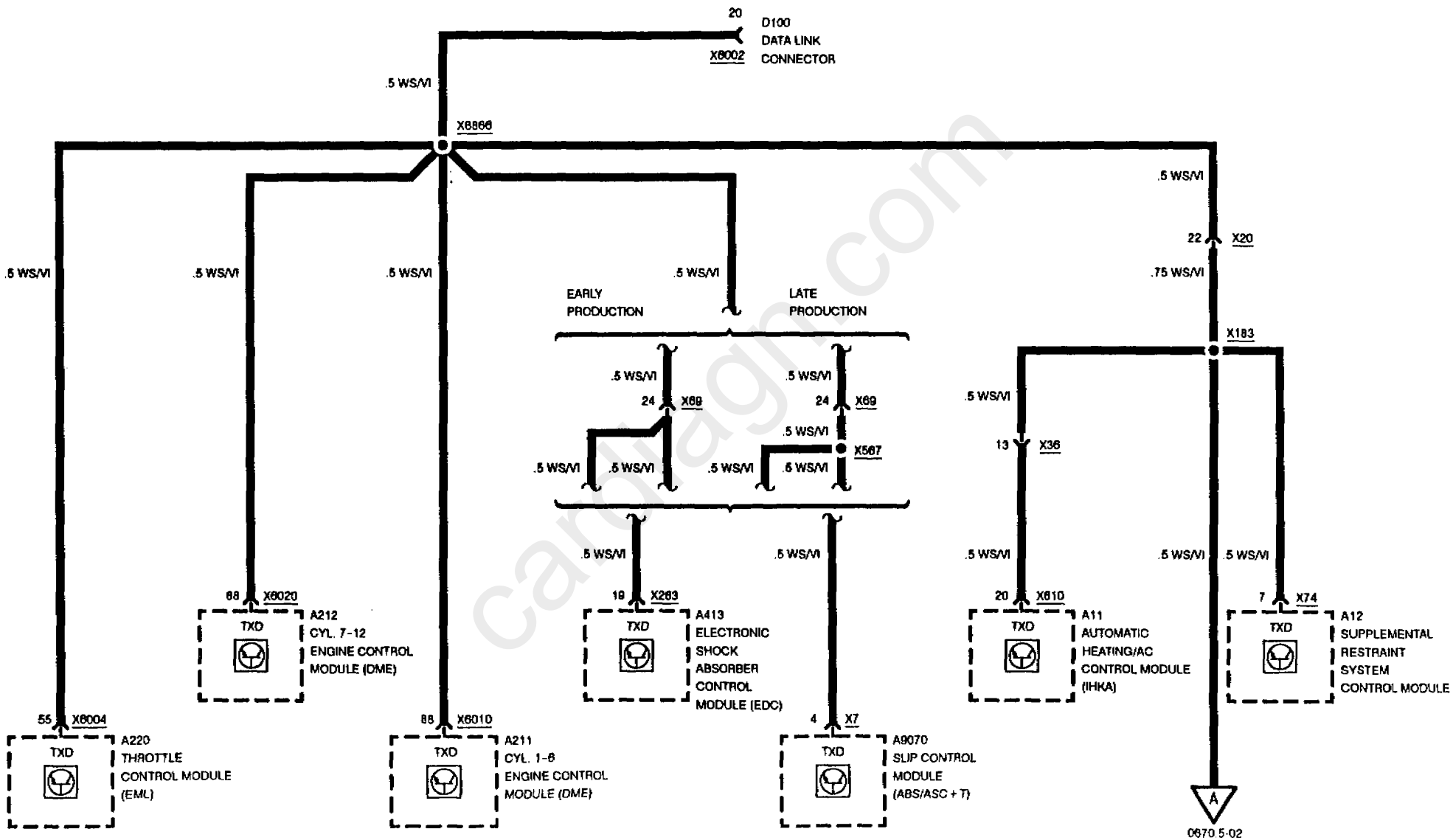
BLOCK DIAGRAM



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DATA LINK

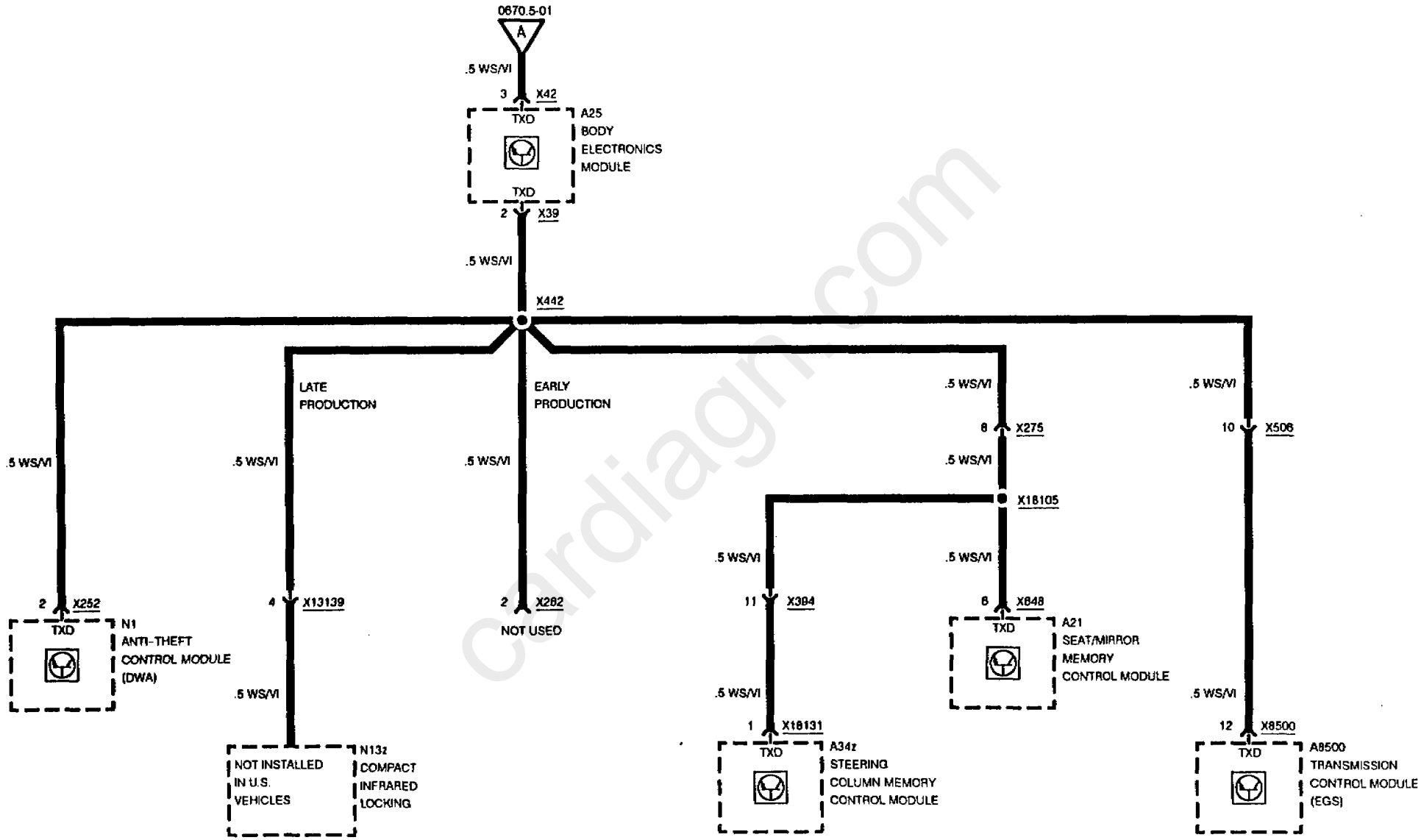
TXD, PIN 20



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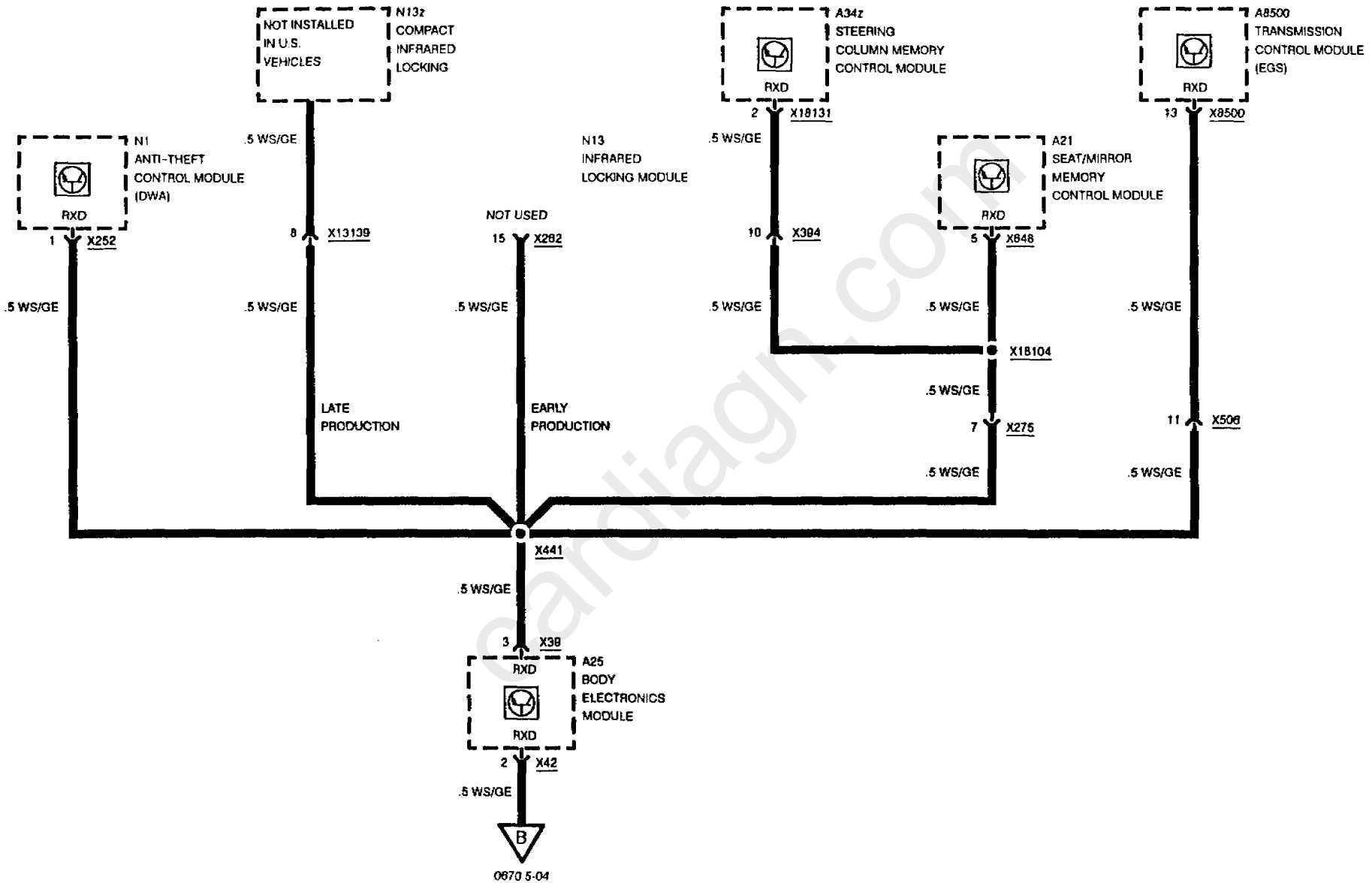
DATA LINK

TXD



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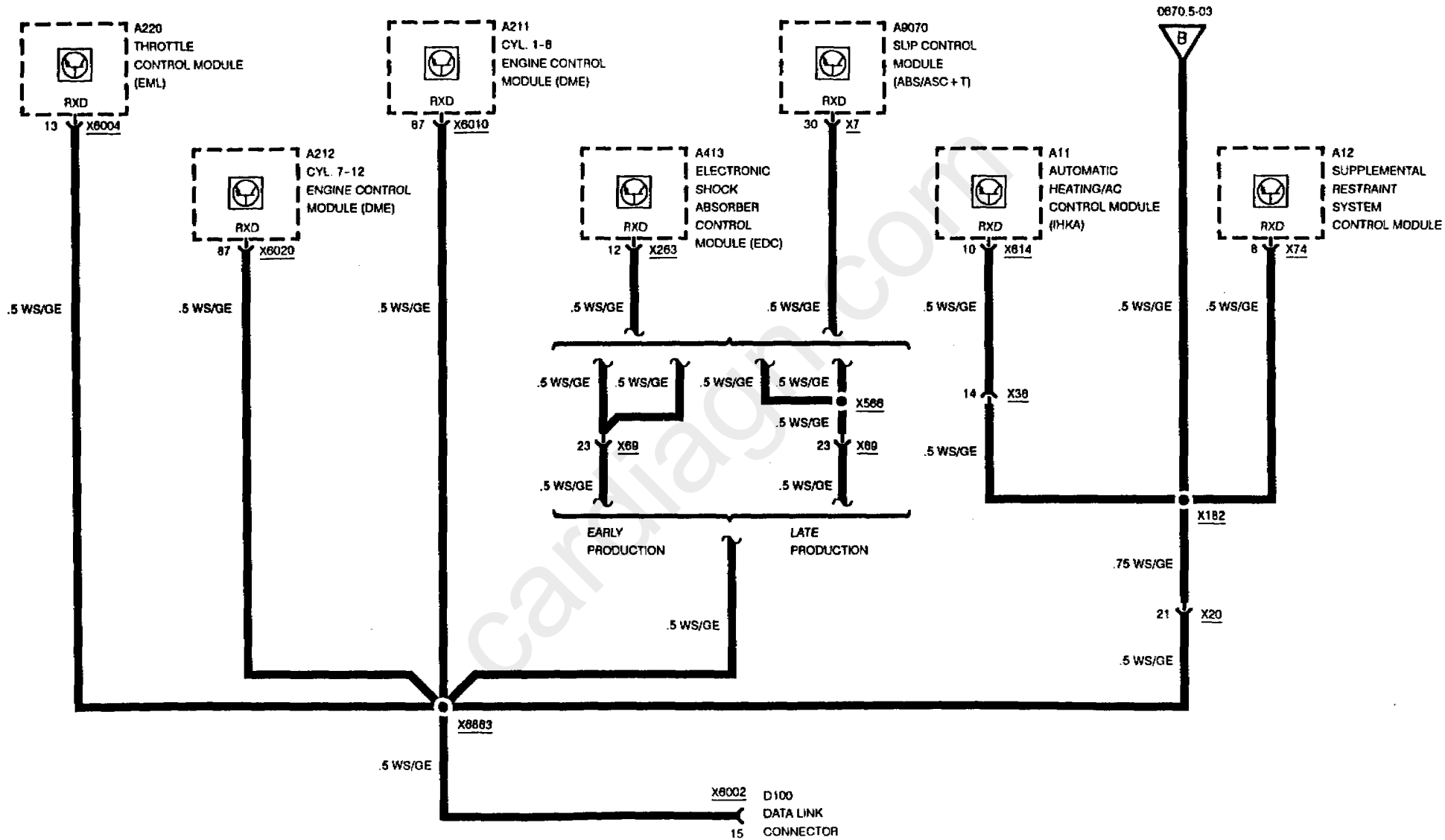
DATA LINK
RXD



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DATA LINK

RXD, PIN 15

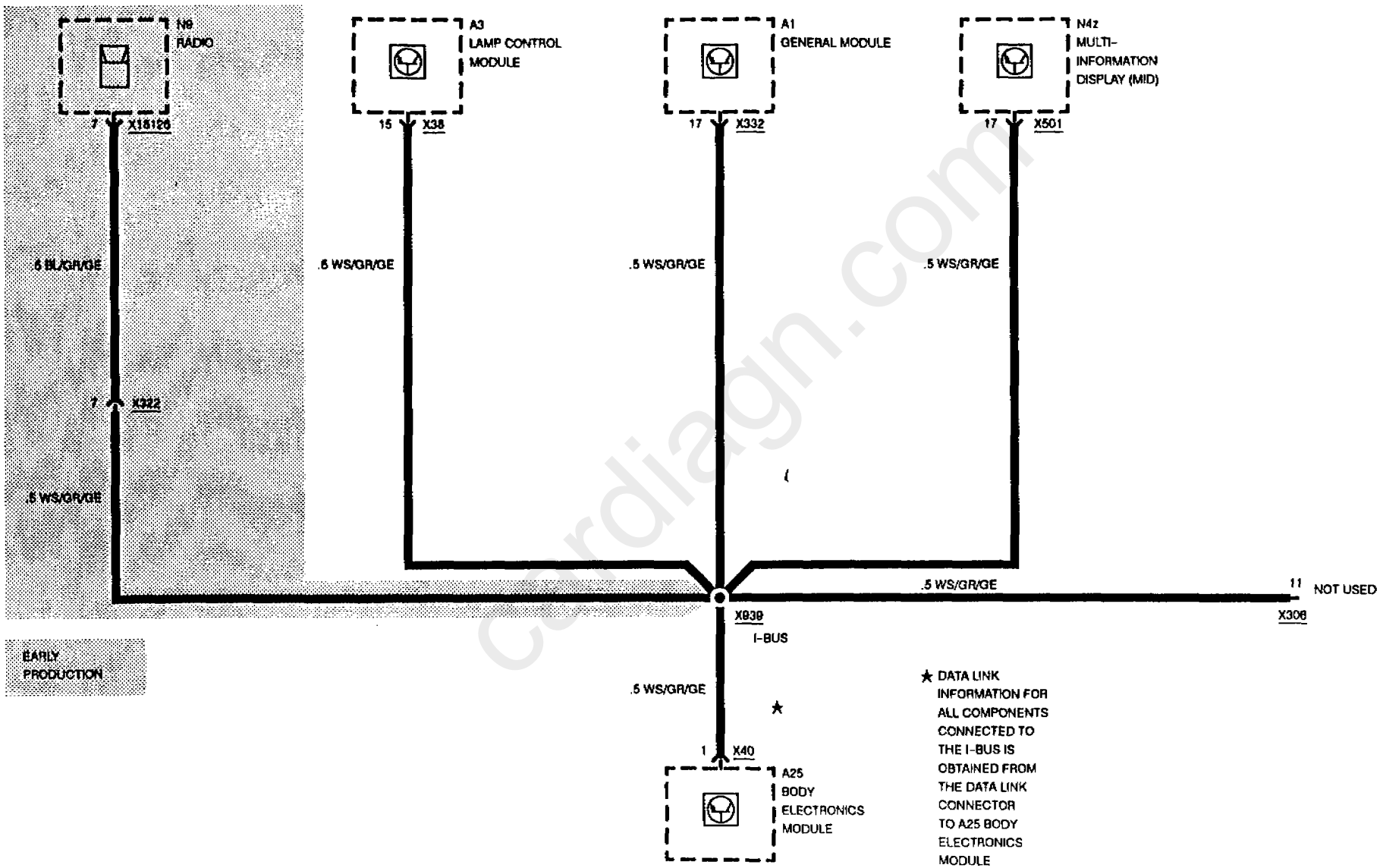


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BMW 8

DATA LINK

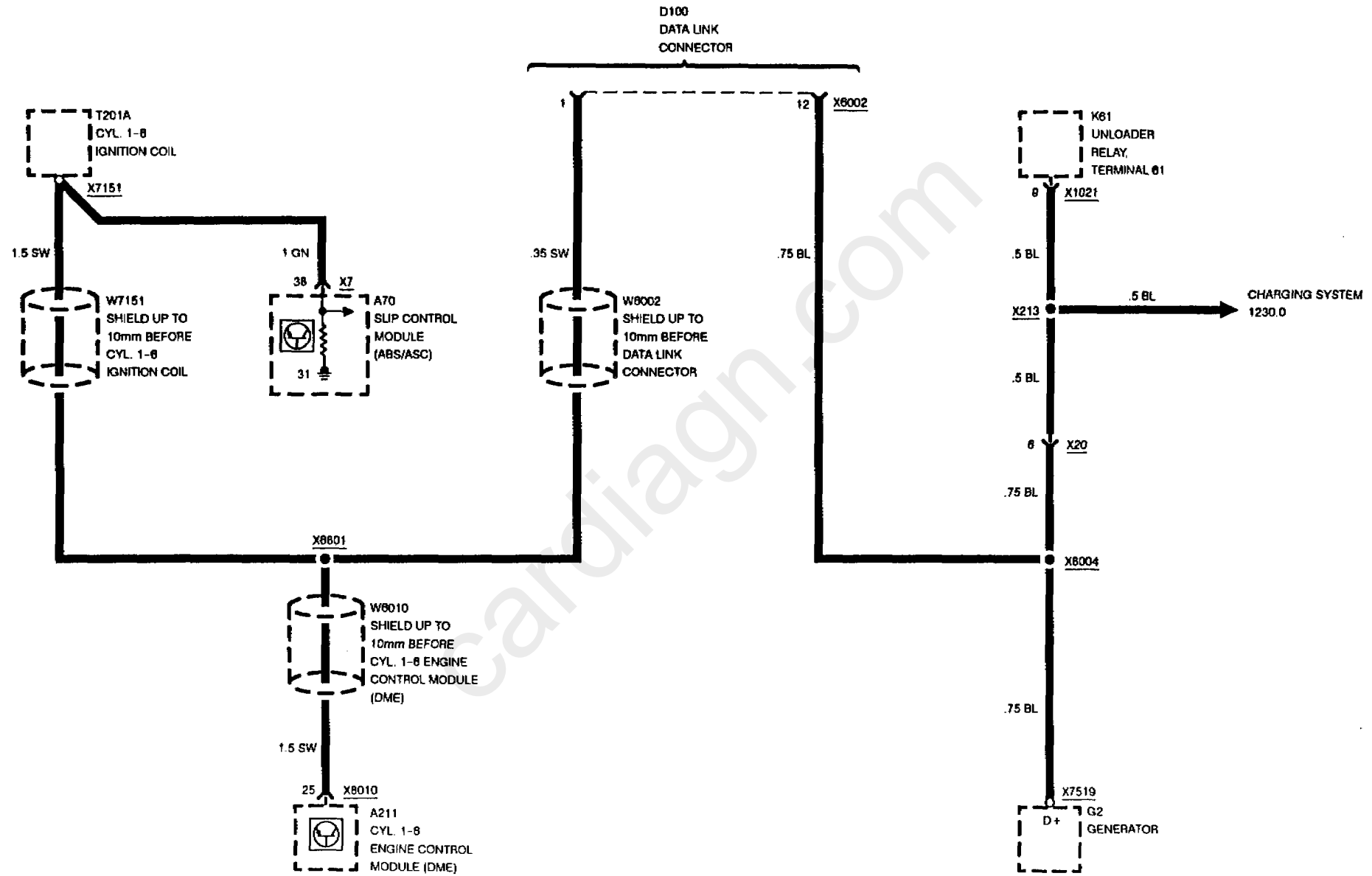
INSTRUMENTATION BUS (I-BUS)



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DATA LINK

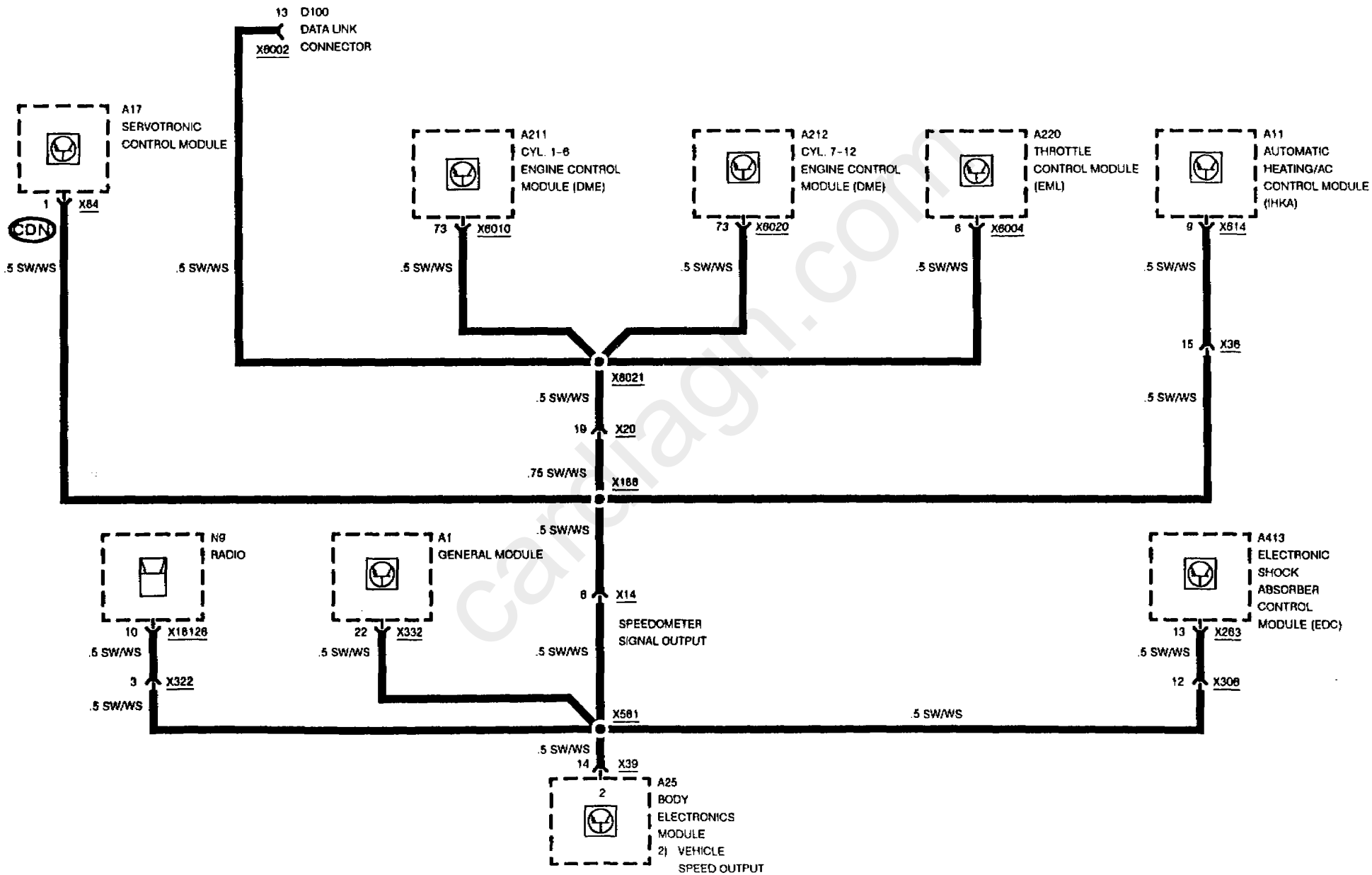
DATA LINK CONNECTOR PINS 1 AND 12



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DATA LINK

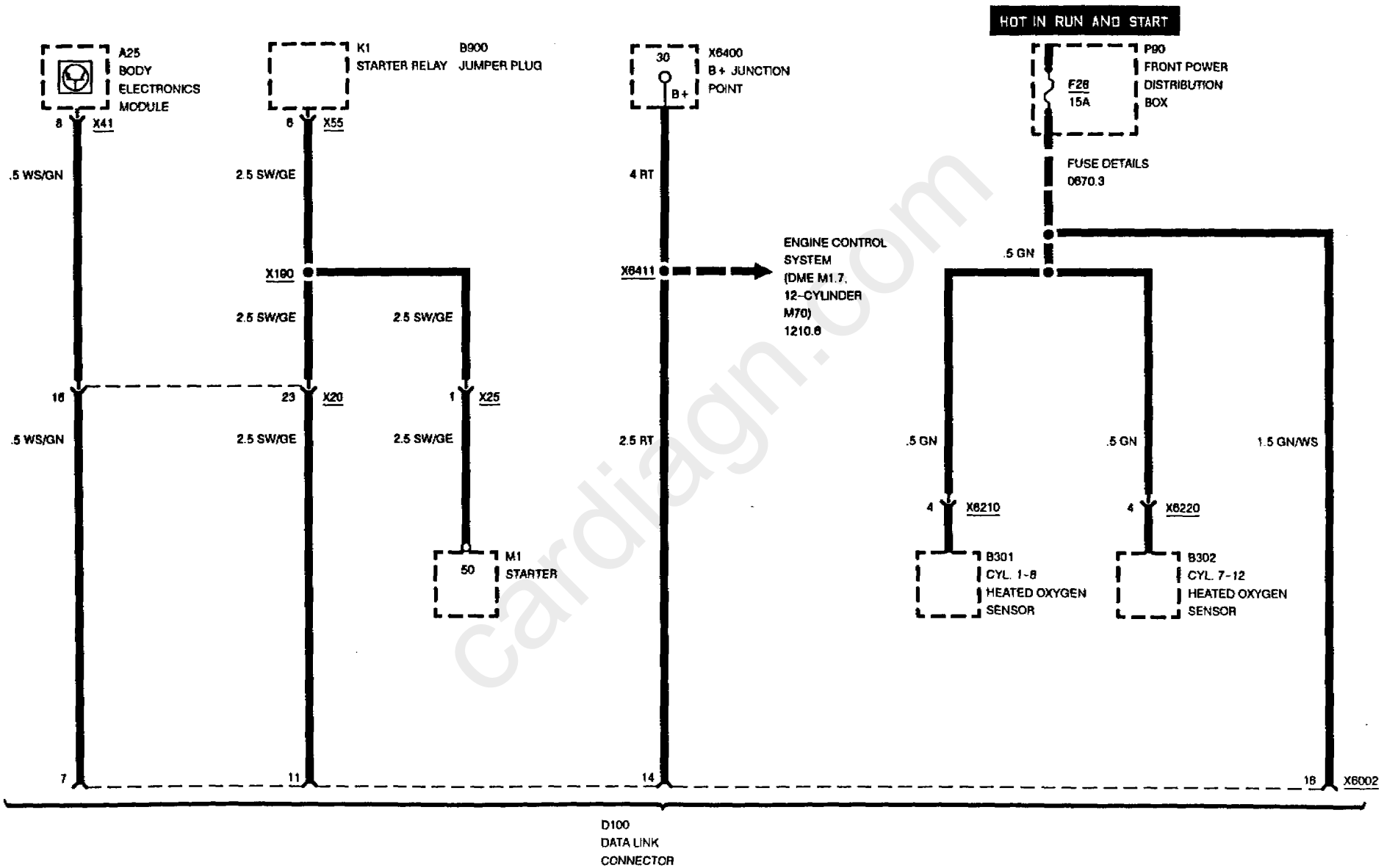
DATA LINK CONNECTOR PIN 13



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DATA LINK

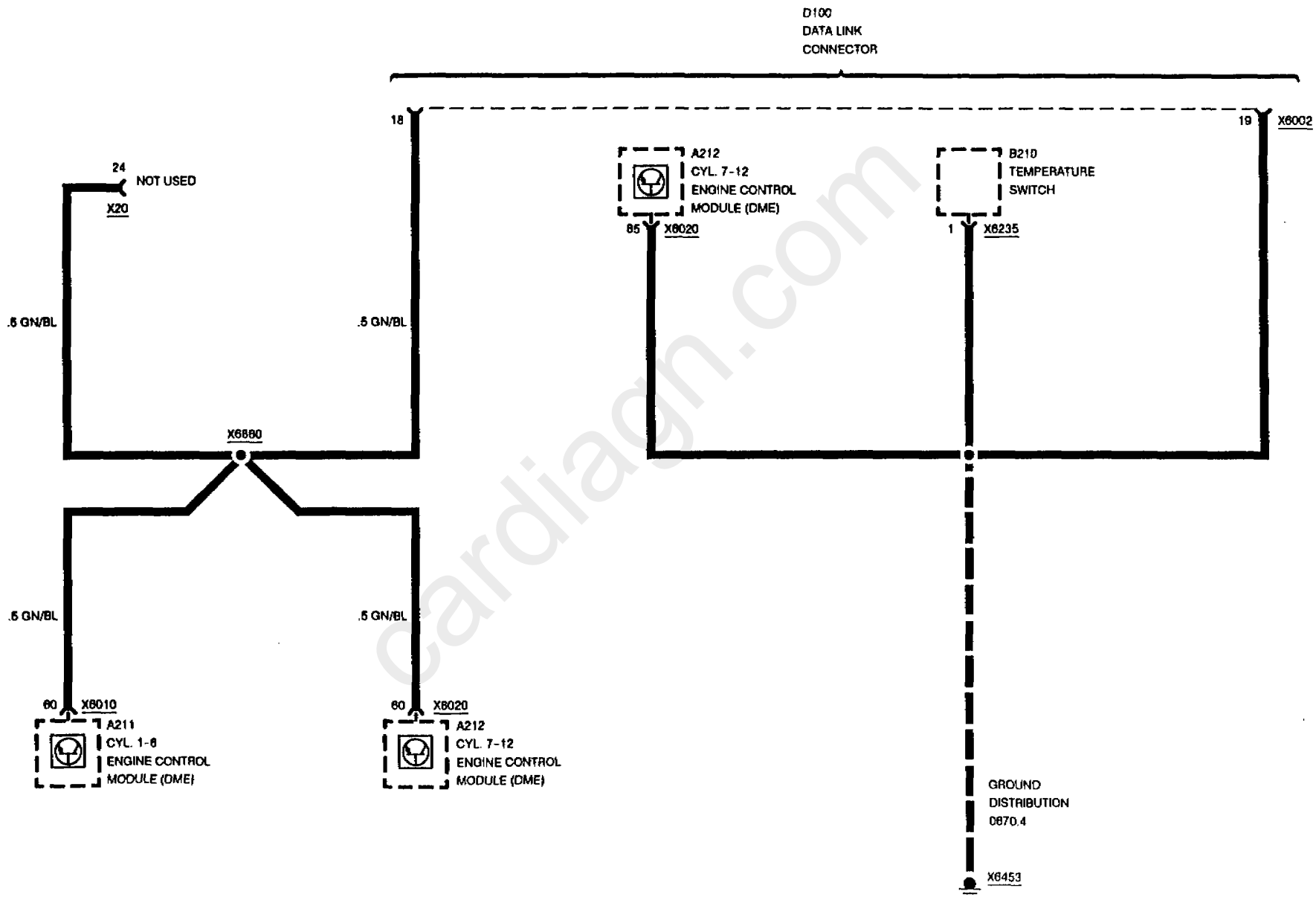
DATA LINK CONNECTOR PINS 7, 11, 14, AND 16



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DATA LINK

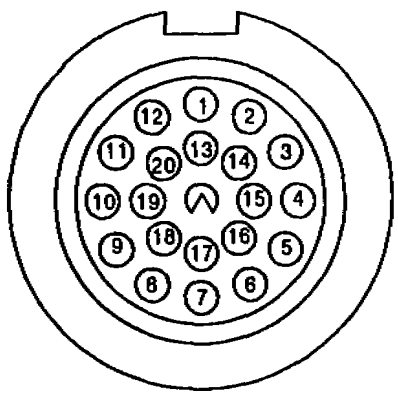
DATA LINK CONNECTOR PINS 18 AND 19



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DATA LINK

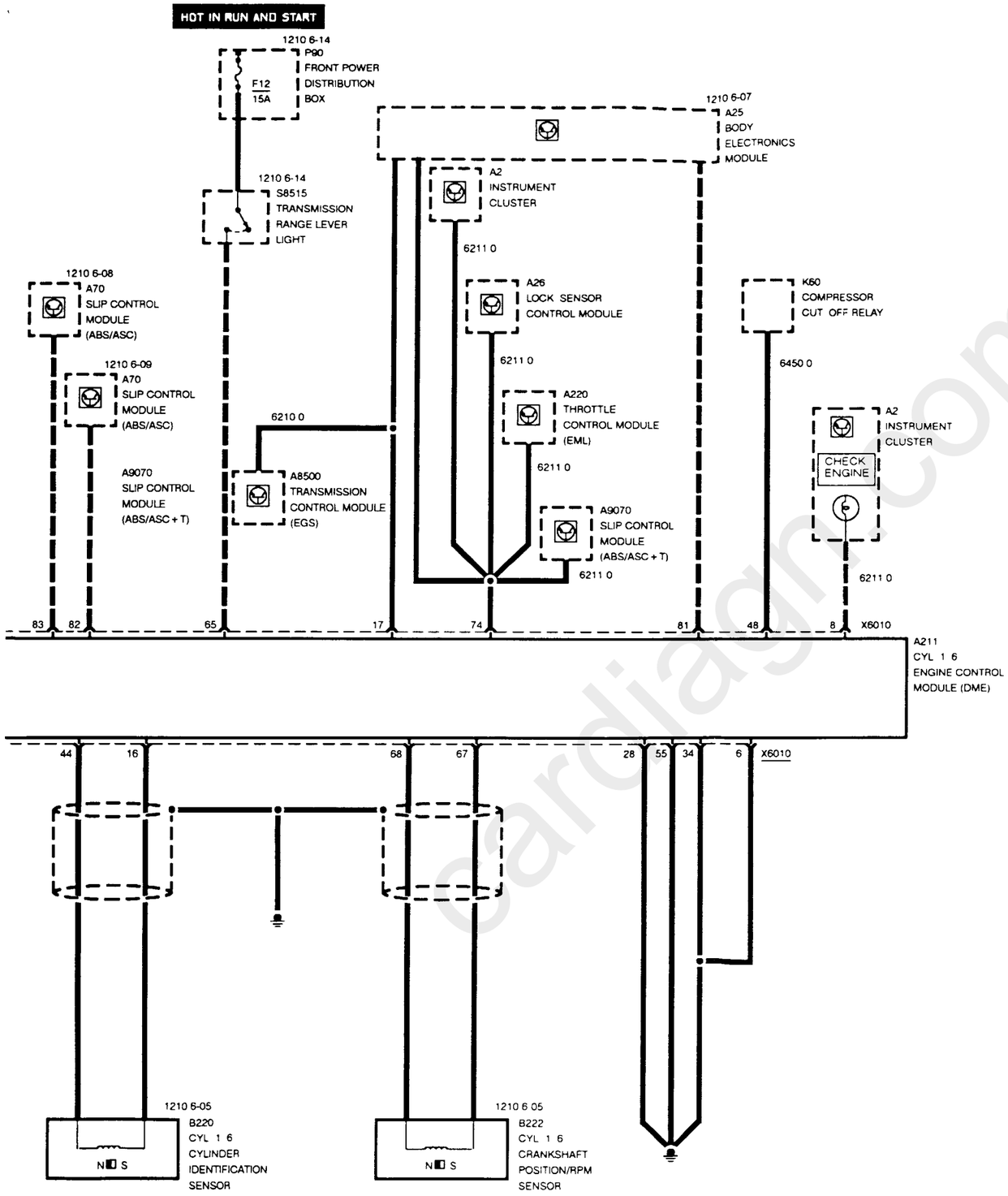
DATA LINK CONNECTOR (X6002)



PIN NUMBER	TERMINAL NUMBER	TERMINAL DESCRIPTION	WIRE COLOR
1	1	IGNITION COIL	SW
2	–	NOT OCCUPIED	
3	–	NOT OCCUPIED	
4	–	NOT OCCUPIED	
5	–	NOT OCCUPIED	
6	–	NOT OCCUPIED	
7	SI	SERVICE INTERVAL RESET	WS/GN
8	–	NOT OCCUPIED	
9	–	NOT OCCUPIED	
10	–	NOT OCCUPIED	
11	50	VOLTAGE: IGNITION SWITCH IN START	SW/GE
12	61(D+)	GENERATOR CHARGE INDICATOR	BL
13	TACH	SPEEDOMETER SIGNAL OUTPUT	SW/WS
14	30	VOLTAGE: HOT AT ALL TIMES	RT
15	RXD	DIAGNOSTIC DATA LINK	WS/GE
16	15S	VOLTAGE: IGNITION SWITCH IN RUN AND START	GN/WS
17	–	NOT OCCUPIED	
18	–	PROGRAM SELECT FOR ENGINE CONTROL MODULE (DME)	GN/BL
19	31	GROUND	BR
20	TXD	DIAGNOSTIC DATA LINK	WS/VI

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HOT IN RUN AND START
1210 6-14
P90
FRONT POWER
DISTRIBUTION
BOX
F12
15A
1210 6-14
S8515
TRANSMISSION
RANGE LEVER
LIGHT
1210 6-07
A25
BODY
ELECTRONICS
MODULE
A2
INSTRUMENT
CLUSTER
6211 0
A26
LOCK SENSOR
CONTROL MODULE
6211 0
A220
THROTTLE
CONTROL MODULE
(EML)
6211 0
A9070
SLIP CONTROL
MODULE
(ABS/ASC + T)
6211 0
1210 6-08
A70
SLIP CONTROL
MODULE
(ABS/ASC)
1210 6-09
A70
SLIP CONTROL
MODULE
(ABS/ASC)
A9070
SLIP CONTROL
MODULE
(ABS/ASC + T)
6210 0
A8500
TRANSMISSION
CONTROL MODULE
(EGS)
K50
COMPRESSOR
CUT OFF RELAY
6450 0
A2
INSTRUMENT
CLUSTER
CHECK
ENGINE
6211 0
83
82
65
17
74
81
48
8
X6010
A211
CYL 1 6
ENGINE CONTROL
MODULE (DME)
44
16
68
67
28
55
34
6
X6010
1210 6-05
B220
CYL 1 6
CYLINDER
IDENTIFICATION
SENSOR
N S
1210 6 05
B222
CYL 1 6
CRANKSHAFT
POSITION/RPM
SENSOR
N S

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HOT AT ALL TIMES

30

1210 6-00
S2
IGNITION
SWITCH

1210 6-00
T201
CYL 1 IGNITION
COIL

1210 6-00

SPARK PLUGS

D100
DATA LINK
CONNECTOR

HOT AT ALL TIMES

X8400
30
B+ JUNCTION
POINT

1210 6-01
K212
CYL 1-6
ENGINE CONTROL
MODULE RELAY

1210 6-03
B226
CYL 1-6
MASS AIR FLOW
SENSOR

1210 6-02
A220
THROTTLE
CONTROL MODULE
(EML)

1210 6-03
Y221
CYL 1-6
EVAPORATIVE
EMISSION VALVE

1210 6-02
Y201
CYL 1 FUEL
INJECTION VALVE

Y203
CYL 3 FUEL
INJECTION VALVE

Y205
CYL 5 FUEL
INJECTION VALVE

1210 6-02
Y202
CYL 2 FUEL
INJECTION VALVE

Y204
CYL 4 FUEL
INJECTION VALVE

Y206
CYL 6 FUEL
INJECTION VALVE

1210 6-04
K210
CYL 1-6 FUEL
PUMP RELAY

1210 6-04
P90
F23
15A
FRONT POWER
DISTRIBUTION
BOX

1210 6-04
M2
FUEL PUMP

56 25 26 27 76 14 41 13 54 32 36 3 1

87 RXD
88 TXD
X6010

73 64 63 77 78 43 12 62 60 70 71

1210 6 07
A25
BODY
ELECTRONICS
MODULE

1210 6 06
A8500
TRANSMISSION
CONTROL MODULE
(EGS)

1210 6 08
B224
CYL 1 6
AIR TEMPERATURE
SENSOR

1210 6-08
B228
ENGINE COOLANT
TEMPERATURE
SENSOR (DME)

1210 6 06
1210 6 08
A220
THROTTLE
CONTROL MODULE
(EML)

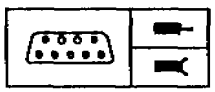
D100
DATA LINK
CONNECTOR

HOT IN RUN AND START

1210 6-05
P90
F28
15A
FRONT POWER
DISTRIBUTION
BOX

1210 6 05
B301
CYL 1 6
HEATED OXYGEN
SENSOR

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Pin Assignments

X6010

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	A	EKP relay and TR signal (crankshaft reference)	EKP relay and EGS control unit torque converter clutch	Ground with superimposed engine speed signal	ON	Can only be measured when crankshaft rotating (the EKP relay does not switch if the TR signal is not applied)
2		Not used				
3	A	Injector valves cyl. 2–4–6	Injector valve EV	Ground clocked	Injection time ti	Ground => injector valves open, see component activation
4		Not used				
5		Not used				
6	M	Ground, EV output stages	Ground point	Ground		
7		Not used				
8	A	Defect lamp (US only)	Instrument cluster	Ground		
9		Not used				
10		Not used				
11		Not used				
12	E	Full load signal VL	EML control unit	Ground	ON	At full load (kick–down)

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Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
13	A	Burn off	Air mass meter	Voltage increase for approx. 0.5 sec		See chapter component testing
14	M	Ground, air mass meter	Air mass meter	Ground		
15		Not used				
16	E	Cylinder reference sensor (ignition)	Cylinder reference sensor (connection B)		ON/OFF	See status monitoring
17	A	ti measuring signal (KVA signal)	EKM control unit	Square wave signal	Multimeter function Pulse duration	
18		Not used				
19		Not used				
20		Not used				
21		Not used				
22		Not used				
23		Not used				
24		Not used				
25	A	Ignition terminal 1	Ignition coil 1	Primary signal	Oscilloscope	Engine test, test step 05
26	E	Battery voltage	B+ terminal point	U–Batt		Diagnosis not possible if not fitted
27	A	DME main relay	DME main relay terminal 85 (additionally, jumper to second DME main relay)	Ground	ON	Diagnosis not possible if not fitted – connect jumper at relay terminal 30 and 87
28	M	Ground for electronics and shielding the sensors	Ground point	Ground		
29		Not used				

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ENGINE CONTROL SYSTEM (DME M1.7, 12-CYLINDER M70)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
30		Not used				
31		Not used				
32	A	Injector valves cyl. 1–3–5	EV and EML control unit	Ground clocked	Injection time ti	Ground => Injector valves open, see component activation
33		Not used				
34	M	Ground, remaining output stages (except for ignition and EV)	Ground point	Ground		
35		Not used				
36	A	Fuel evaporation control valve	TE valve	Ground clocked	CLOSED/OPEN	Perform component activation, ground => closed
37		Not used				
38		Not used				
39		Not used				
40		Not used				
41	E	Signal, air mass meter	Air mass meter	0...5 V	Load signal in ms	See status monitoring
42		Not used				
43	M	Ground for sensors	Temperature sensors	Ground		
44	E	Cylinder reference (ignition)	Cylinder reference (connection A)		ON/OFF	See status monitoring
45		Not used				
46		Not used				
47		Not used				
48	A	Compressor cut–off signal	Compressor cut–off relay	Ground		

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Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
49		Not used				
50		Not used				
51		Not used				
52		Not used				
53		Not used				
54	E	U–Batt from DME main relay	Main relay terminal 87	U–Batt	Voltage value	Perform status monitoring. Diagnosis not possible if signal not applied – connect jumper to terminal 30 and 87 on relay
55	M	Ground ignition	Ground point	Ground		
56	E	Ignition terminal 15	Ignition switch	U–Batt		
57		Not used				
58		Not used				
59		Not used				
60	E	Programming voltage	Diagnostic connector			Only activated for control unit programming
61		Not used				
62	E	Idle signal LL	EML control unit	Ground	ON	See status monitoring
63	E	Torque converter clutch (WK)	EGS control unit	Ground	ON (with engine running)	When WK engaged, see status monitoring
64	E	Ignition timing intervention	EGS control unit	Ground	ON	Only active during gearshift
65	E	Park/Neutral sensing	Transmission selector lever switch	Ground	ON	When position P/N

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ENGINE CONTROL SYSTEM (DME M1.7, 12-CYLINDER M70)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
66		Not used				
67	E	Inductive pulse generator (connection B)	Pulse generator, Engine speed/position	A/C voltage	Engine speed	Between Pins 67 and 68 (can only be measured with crankshaft rotating)
68	E	Inductive pulse generator (connection A)	Pulse generator, Engine speed/position	A/C voltage	Engine speed	Between Pins 67 and 68 (can only be measured with crankshaft rotating)
69		Not used				
70	E	Oxygen sensor signal	Oxygen sensor	Pulsating voltage, up to approx. 1 V	Voltage valvue	Can only be measured with engine running at operating temperature
71	M	Ground, oxygen sensor	Oxygen sensor	Ground		
72		Not used				
73	E	Road speed signal	EKM control unit	Square–wave signal	km/h	
74	A	Engine speed signal (TD)	EKM control unit	Square–wave signal		One signal per ignition
75		Not used				
76	E	Idle CO–potentiometer	Air mass meter	0...5 V	Voltage value	
77	E	Intake air temperature	Intake air temperature sensor	0...5 V	0 C	Temperature–dependent
78	E	Engine temperature	Engine temperature sensor	0...5 V	0 C	Temperature–dependent
79		Not used				
80		Not used				
81	E	DWA signal	EKM control unit	Ground	OFF	U–Batt applied when DWA armed

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Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
82	E	ASC/MSR	ASC or ASC + T	U–Batt	ON	U–Batt => signal active
83	E	ASC/ZAB	Only for ASC without T	U–Batt	ON	U–Batt => signal active
84		Not used				
85		Not used				
86		Not used				
87	E	RxD diagnostic data line	Diagnostic connector	U–Batt		When cover of diagnostic connector closed
88	E/A	TxD diagnostic data line	Diagnostic connector	Ground		When cover of diagnostic connector closed

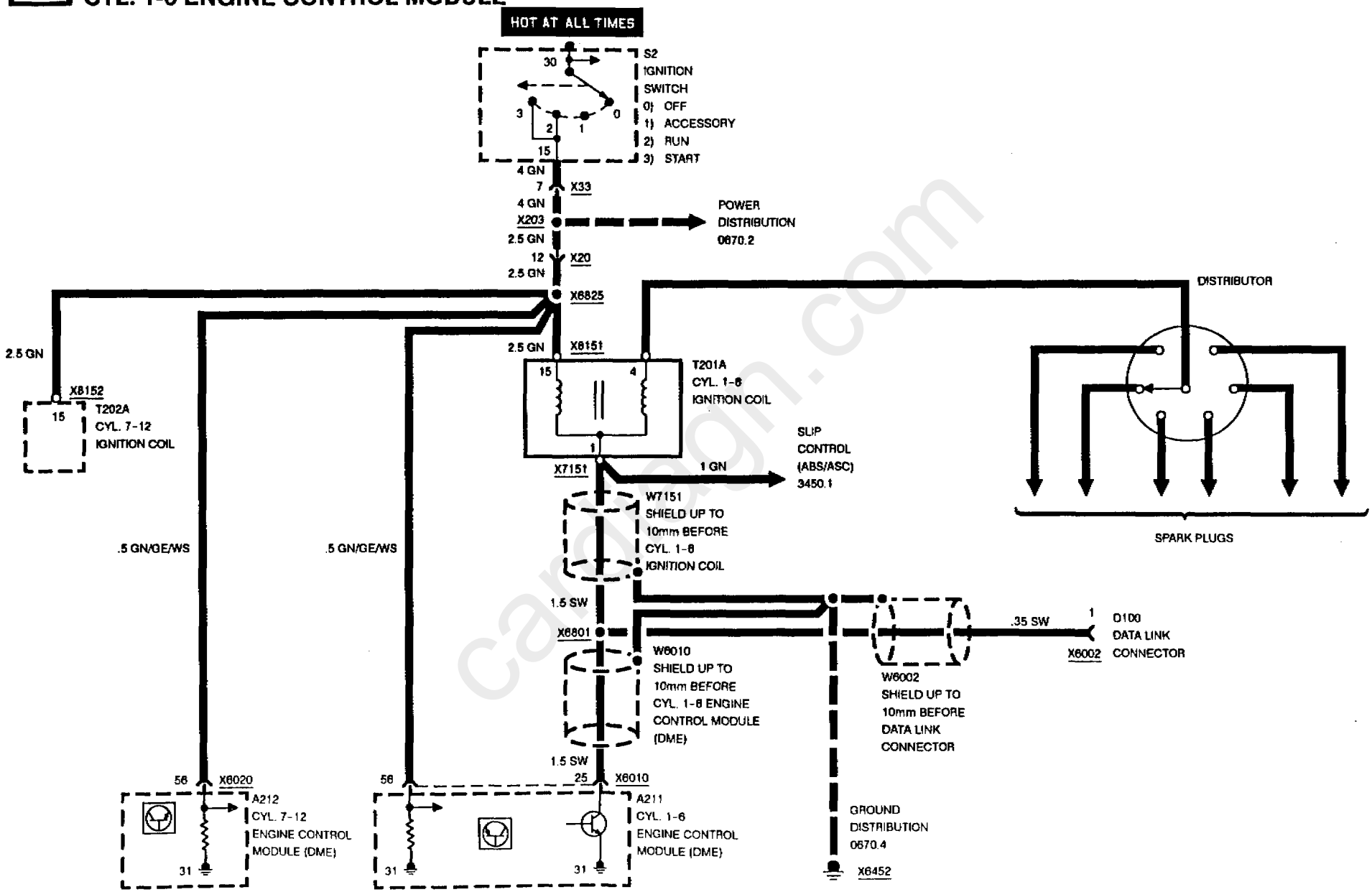
E = Input, A = Output, M = Ground

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ENGINE CONTROL SYSTEM (DME M1.7, 12-CYLINDER M70)

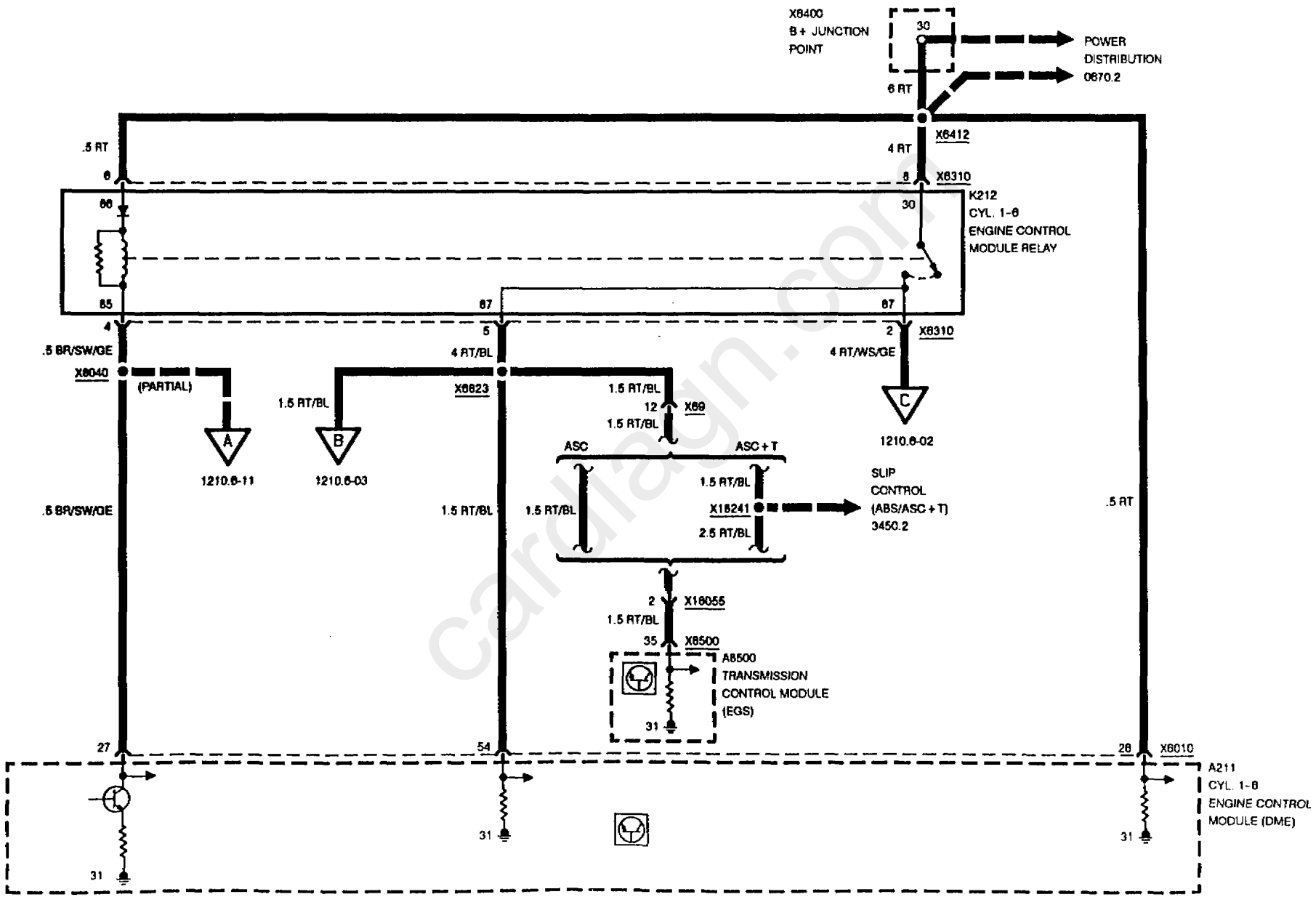
CYL. 1-6 ENGINE CONTROL MODULE



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ENGINE CONTROL SYSTEM (DME M1.7, 12-CYLINDER M70)

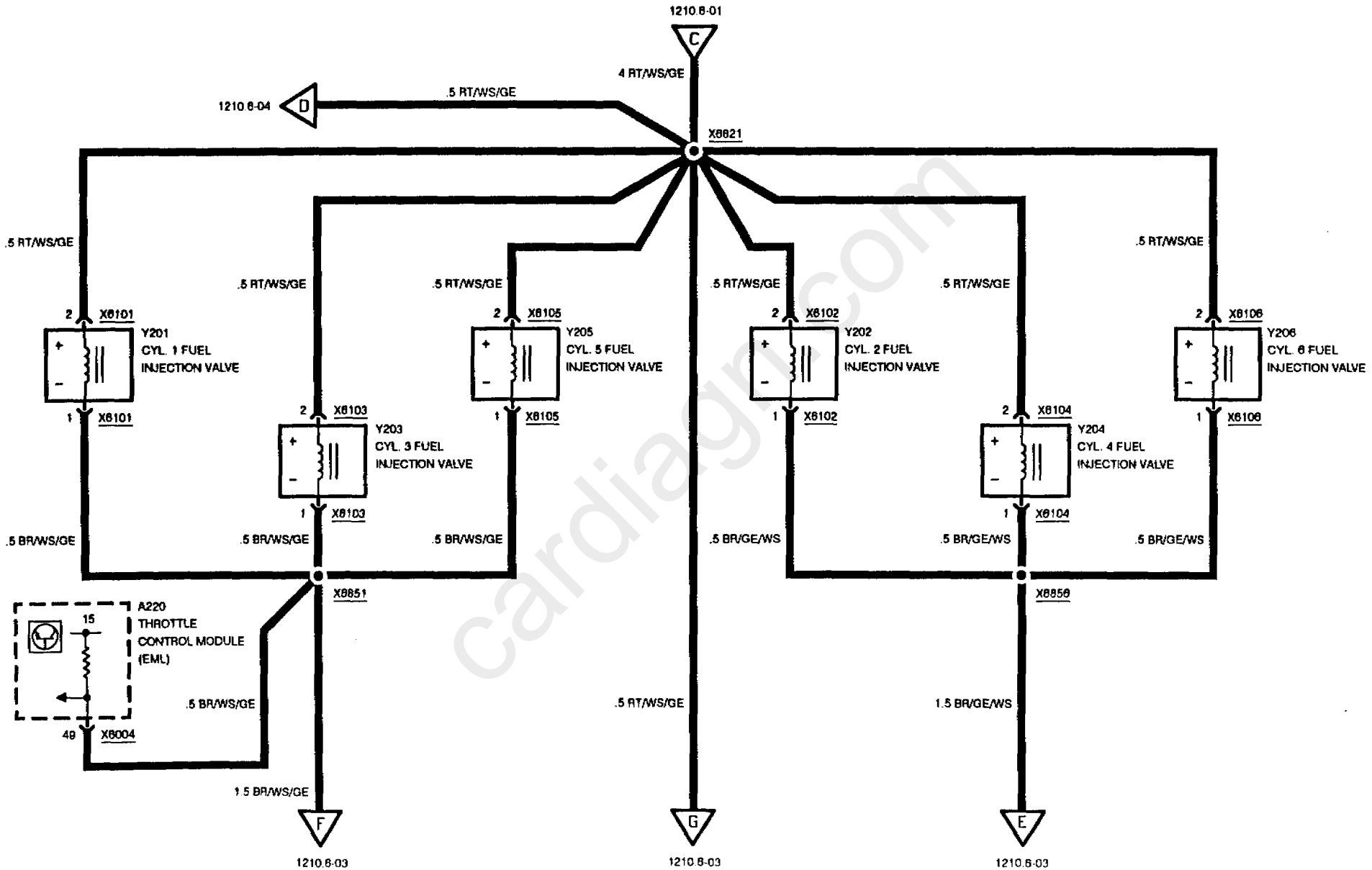
CYL. 1-6 ENGINE CONTROL MODULE



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ENGINE CONTROL SYSTEM (DME M1.7, 12-CYLINDER M70)

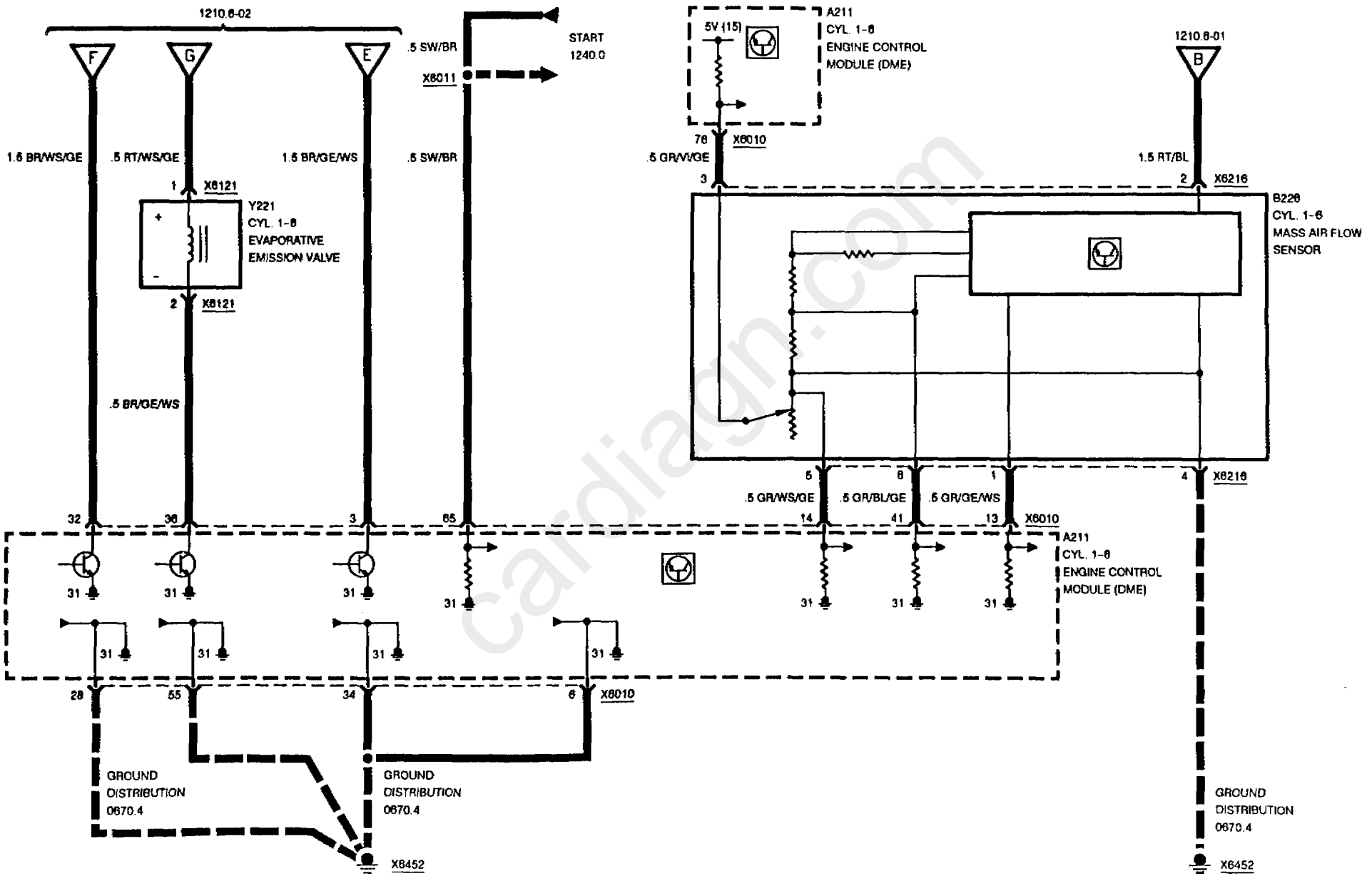
FUEL INJECTION VALVES



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ENGINE CONTROL SYSTEM (DME M1.7, 12-CYLINDER M70)

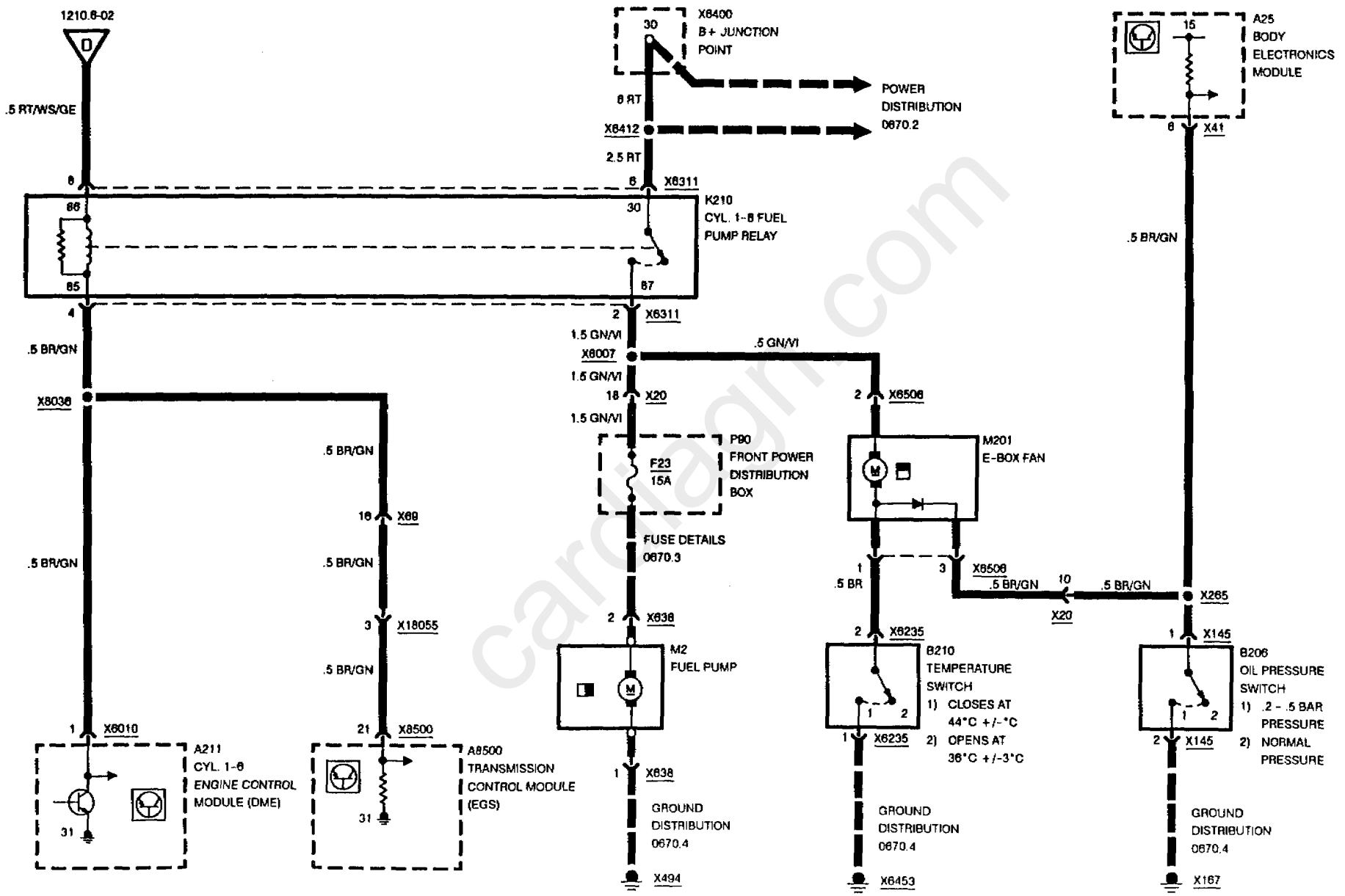
CYL. 1-6 ENGINE CONTROL MODULE



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ENGINE CONTROL SYSTEM (DME M1.7, 12-CYLINDER M70)

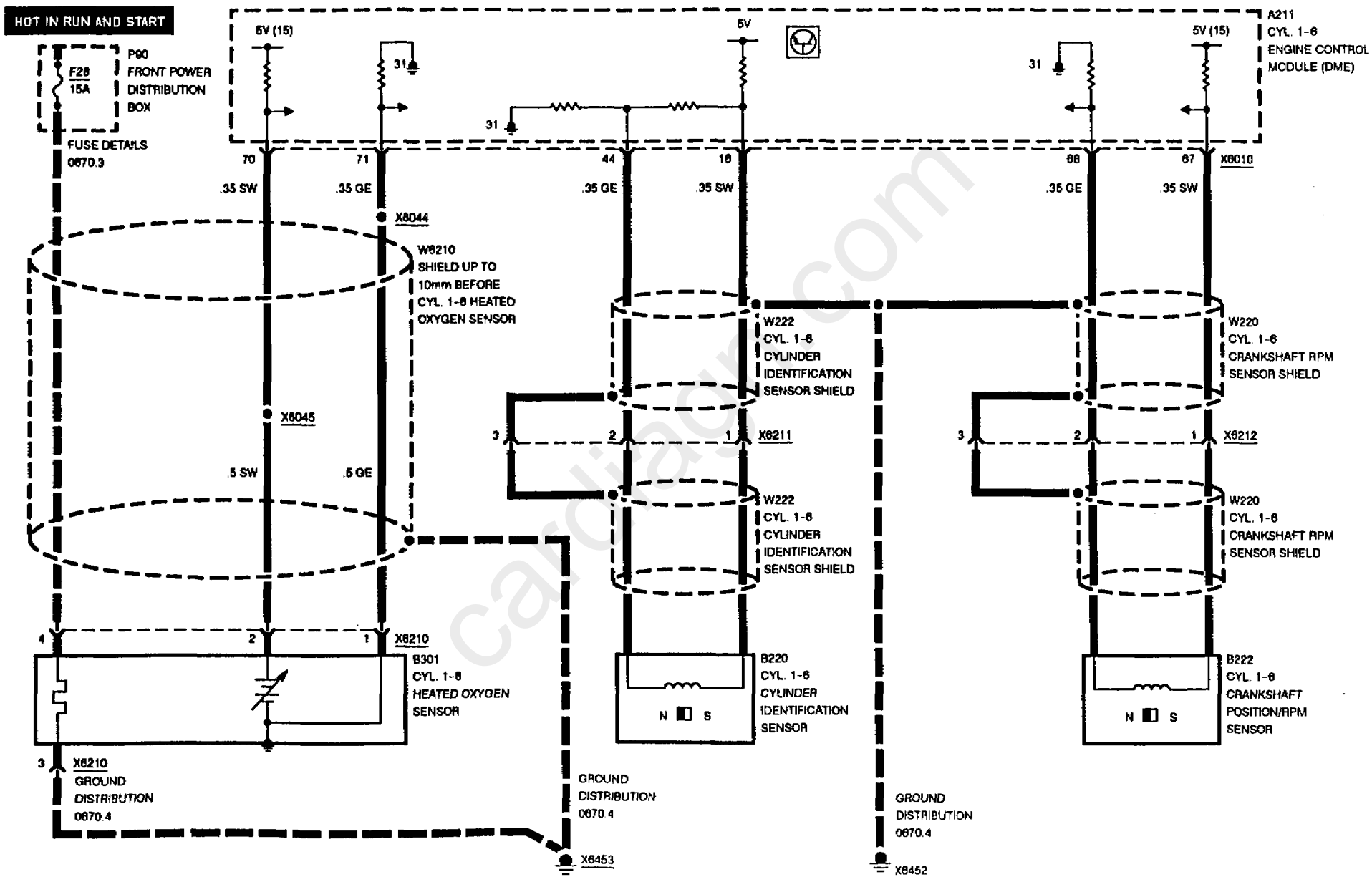
CYL. 1-6 ENGINE CONTROL MODULE



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ENGINE CONTROL SYSTEM (DME M1.7, 12-CYLINDER M70)

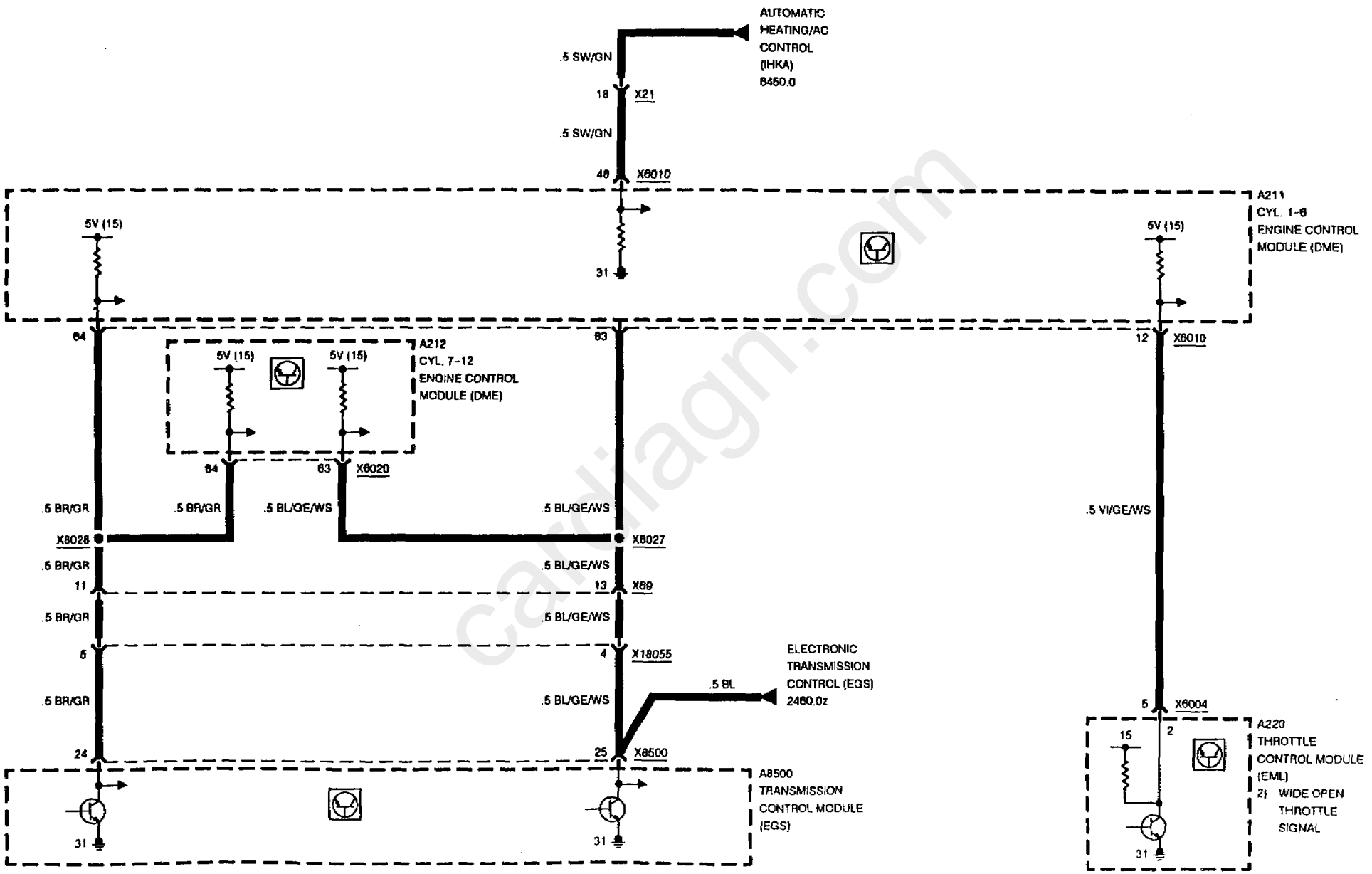
CYL. 1-6 ENGINE CONTROL MODULE



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ENGINE CONTROL SYSTEM (DME M1.7, 12-CYLINDER M70)

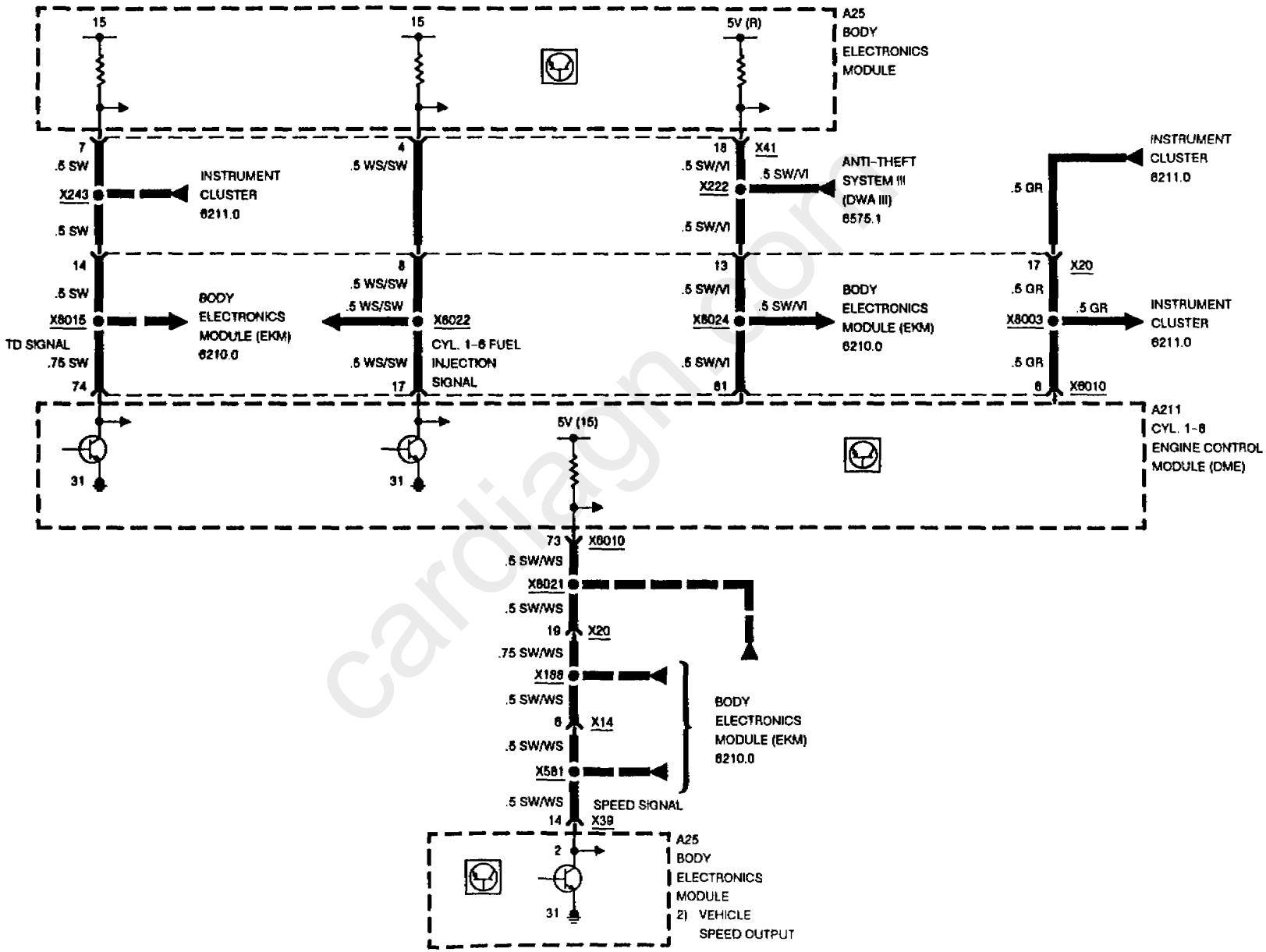
CYL. 1-6 ENGINE CONTROL MODULE



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ENGINE CONTROL SYSTEM (DME M1.7, 12-CYLINDER M70)

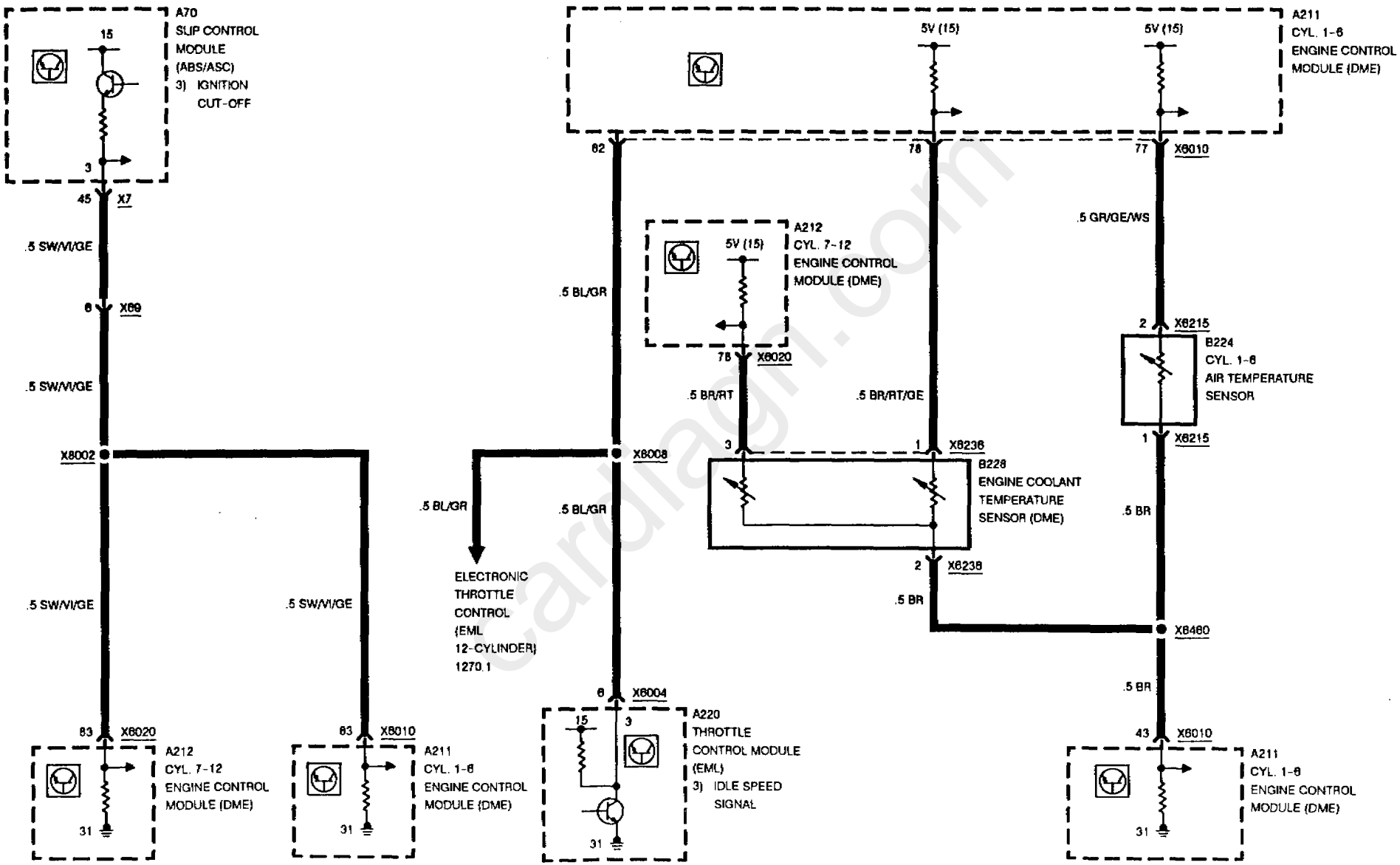
CYL. 1-6 ENGINE CONTROL MODULE



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ENGINE CONTROL SYSTEM (DME M1.7, 12-CYLINDER M70)

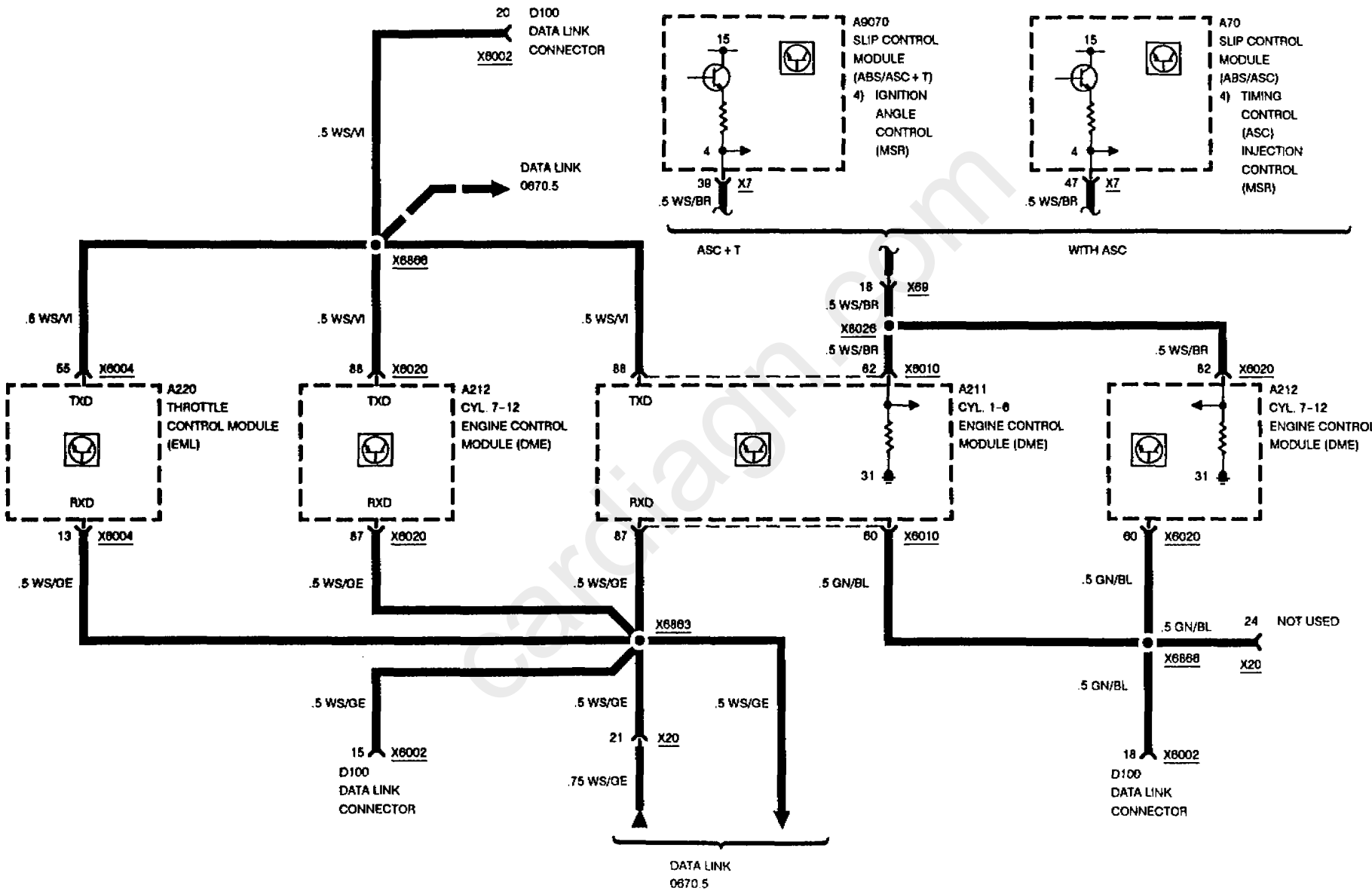
CYL. 1-6 ENGINE CONTROL MODULE



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ENGINE CONTROL SYSTEM (DME M1.7, 12-CYLINDER M70)

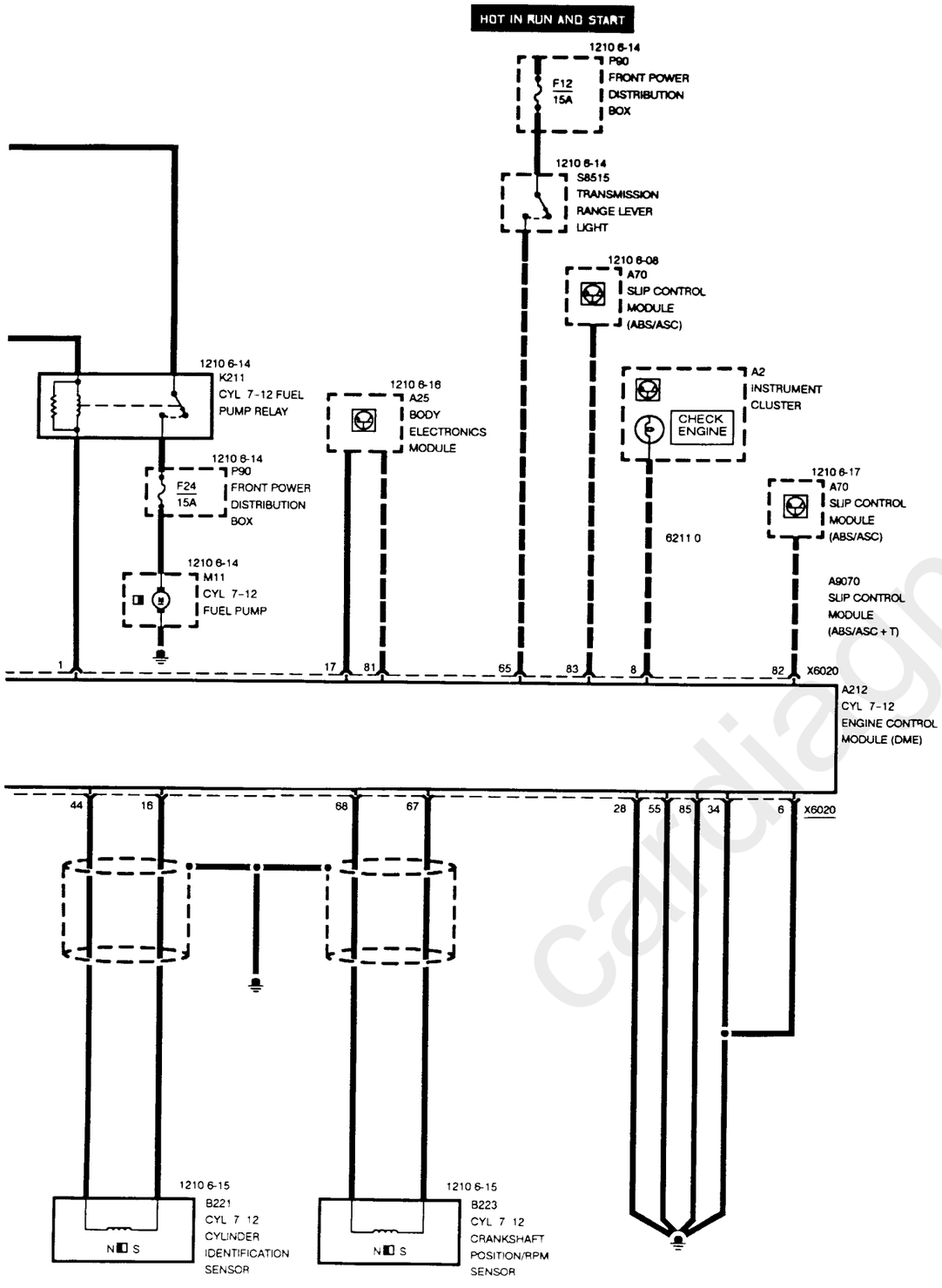
CYL. 1-6 ENGINE CONTROL MODULE



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11/92 1210.6b

HOT AT ALL TIMES

30 1210 6-10 S2 IGNITION SWITCH

1210 6-10 T202 CYL 2 IGNITION COIL

SPARK PLUGS

HOT AT ALL TIMES

X6400 30 B+ JUNCTION POINT

1210 6-11 K213 CYL 7-12 ENGINE CONTROL MODULE RELAY

1210 6-13 B227 CYL 7-12 MASS AIR FLOW SENSOR

1210 6-11 1210 6-12 A220 THROTTLE CONTROL MODULE (EML)

1210 6-12 Y207 CYL 7 FUEL INJECTION VALVE

Y209 CYL 9 FUEL INJECTION VALVE

Y211 CYL 11 FUEL INJECTION VALVE

1210 6-12 Y208 CYL 8 FUEL INJECTION VALVE

Y210 CYL 10 FUEL INJECTION VALVE

Y212 CYL 12 FUEL INJECTION VALVE

1210 6-13 Y222 CYL 7-12 EVAPORATIVE EMISSION VALVE

56 25 26 27 54 76 14 41 13 32 3 36

87 RXD

88 TXD

X6020

70 71 64 63 73 77 43 12 62 60 78

HOT IN RUN AND START

1210 6-15 P90 FRONT POWER DISTRIBUTION BOX

F28 15A

1210 6 15 B302 CYL 7 12 HEATED OXYGEN SENSOR

1210 6-16 A25 BODY ELECTRONICS MODULE

1210 6-06 A8500 TRANSMISSION CONTROL MODULE (EGS)

1210 6-16 B225 CYL 7 12 AIR TEMPERATURE SENSOR

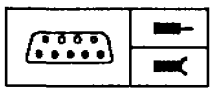
D100 DATA LINK CONNECTOR

1210 6-17 A220 THROTTLE CONTROL MODULE (EML)

1210 6-08 B228 ENGINE COOLANT TEMPERATURE SENSOR (DME)

1210 6-08 A211 CYL 1-6 ENGINE CONTROL MODULE (DME)

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Pin Assignments

X6020

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	A	EKP relay and TR signal (crankshaft reference)	EKP relay and EGS control unit torque converter clutch	Ground with superimposed engine speed signal	ON	Can only be measured when crankshaft rotating (the EKP relay does not switch if the TR signal is not applied)
2		Not used				
3	A	Injector valves cyl. 8–10–12	Injector valve EV	Ground clocked	Injection time ti	Ground => injector valves open, see component activation
4		Not used				
5		Not used				
6	M	Ground, EV output stages	Ground point	Ground		
7		Not used				
8	A	Defect lamp (US only)	Instrument cluster	Ground		
9		Not used				
10		Not used				
11		Not used				
12	E	Full load signal VL	EML control unit	Ground	ON	At full load (kick–down)

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Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
13	A	Burn off	Air mass meter	Voltage increase for approx. 0.5 sec		See chapter component testing
14	M	Ground, air mass meter	Air mass meter	Ground		
15		Not used				
16	E	Cylinder reference sensor (ignition)	Cylinder reference sensor (connection B)		ON/OFF	See status monitoring
17	A	ti measuring signal (KVA signal)	EKM control unit	Square wave signal	Multimeter function Pulse duration	
18		Not used				
19		Not used				
20		Not used				
21		Not used				
22		Not used				
23		Not used				
24		Not used				
25	A	Ignition terminal 1	Ignition coil	Primary signal	Oscilloscope	Engine test, test step 05
26	E	Battery voltage	B+ terminal point	U–Batt		Diagnosis not possible if not fitted
27	A	DME main relay	DME main relay terminal 85 (additionally, jumper to second DME main relay)	Ground	ON	Diagnosis not possible if not fitted – connect jumper at relay terminal 30 and 87
28	M	Ground for electronics and shielding the sensors	Ground point	Ground		
29		Not used				

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ENGINE CONTROL SYSTEM (DME M1.7, 12-CYLINDER M70)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
30		Not used				
31		Not used				
32	A	Injector valves cyl. 7–9–11	EV and EML control unit	Ground clocked	Injection time ti	Ground => Injector valves open, see component activation
33		Not used				
34	M	Ground, remaining output stages (except for ignition and EV)	Ground point	Ground		
35		Not used				
36	A	Fuel evaporation control valve	TE valve	Ground clocked	CLOSED/OPEN	Perform component activation, ground => closed
37		Not used				
38		Not used				
39		Not used				
40		Not used				
41	E	Signal, air mass meter	Air mass meter	0...5 V	Load signal in ms	See status monitoring
42		Not used				
43	M	Ground for sensor	Temperature sensor	Ground		
44	E	Cylinder reference (ignition)	Cylinder reference (connection A)		ON/OFF	See status monitoring
45		Not used				
46		Not used				
47		Not used				
48		Not used				

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Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
49		Not used				
50		Not used				
51		Not used				
52		Not used				
53		Not used				
54	E	U–Batt from DME main relay	Main relay terminal 87	U–Batt	Voltage value	Perform status monitoring. Diagnosis not possible if signal not applied – connect jumper to terminal 30 and 87 on relay
55	M	Ground ignition	Ground point	Ground		
56	E	Ignition terminal 15	Ignition switch	U–Batt		
57		Not used				
58		Not used				
59		Not used				
60	E	Programming voltage	Diagnostic connector			Only activated for control unit programming
61		Not used				
62	E	Idle signal LL	EML control unit	Ground	ON	See status monitoring
63	E	Torque converter clutch (WK)	EGS control unit	Ground	ON (with engine running)	When WK engaged, see status monitoring
64	E	Ignition timing intervention	EGS control unit	Ground	ON	Only active during gearshift
65	E	Park/Neutral sensing	Transmission selector lever switch	Ground	ON	When position P/N

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ENGINE CONTROL SYSTEM (DME M1.7, 12-CYLINDER M70)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
66		Not used				
67	E	Inductive pulse generator (connection B)	Pulse generator, Engine speed/position	A/C voltage	Engine speed	Between Pins 67 and 68 (can only be measured with crankshaft rotating)
68	E	Inductive pulse generator (connection A)	Pulse generator, Engine speed/position	A/C voltage	Engine speed	Between Pins 67 and 68 (can only be measured with crankshaft rotating)
69		Not used				
70	E	Oxygen sensor signal	Oxygen sensor	Pulsating voltage, up to approx. 1 V	Voltage valvue	Can only be measured with engine running at operating temperature
71	M	Ground, oxygen sensor	Oxygen sensor	Ground		
72		Not used				
73	E	Road speed signal	EKM control unit	Square–wave signal	km/h	
74	A	Engine speed signal (TD)	EKM control unit	Square–wave signal		one signal per ignition
75		Not used				
76	E	Idle CO–potentiometer	Air mass meter	0...5 V	Voltage value	
77	E	Intake air temperature	Intake air temperature sensor	0...5 V	0 C	Temperature–dependent
78		Not used				
79		Not used				
80		Not used				
81	E	DWA signal	EKM control unit	Ground	OFF	U–Batt applied when DWA armed

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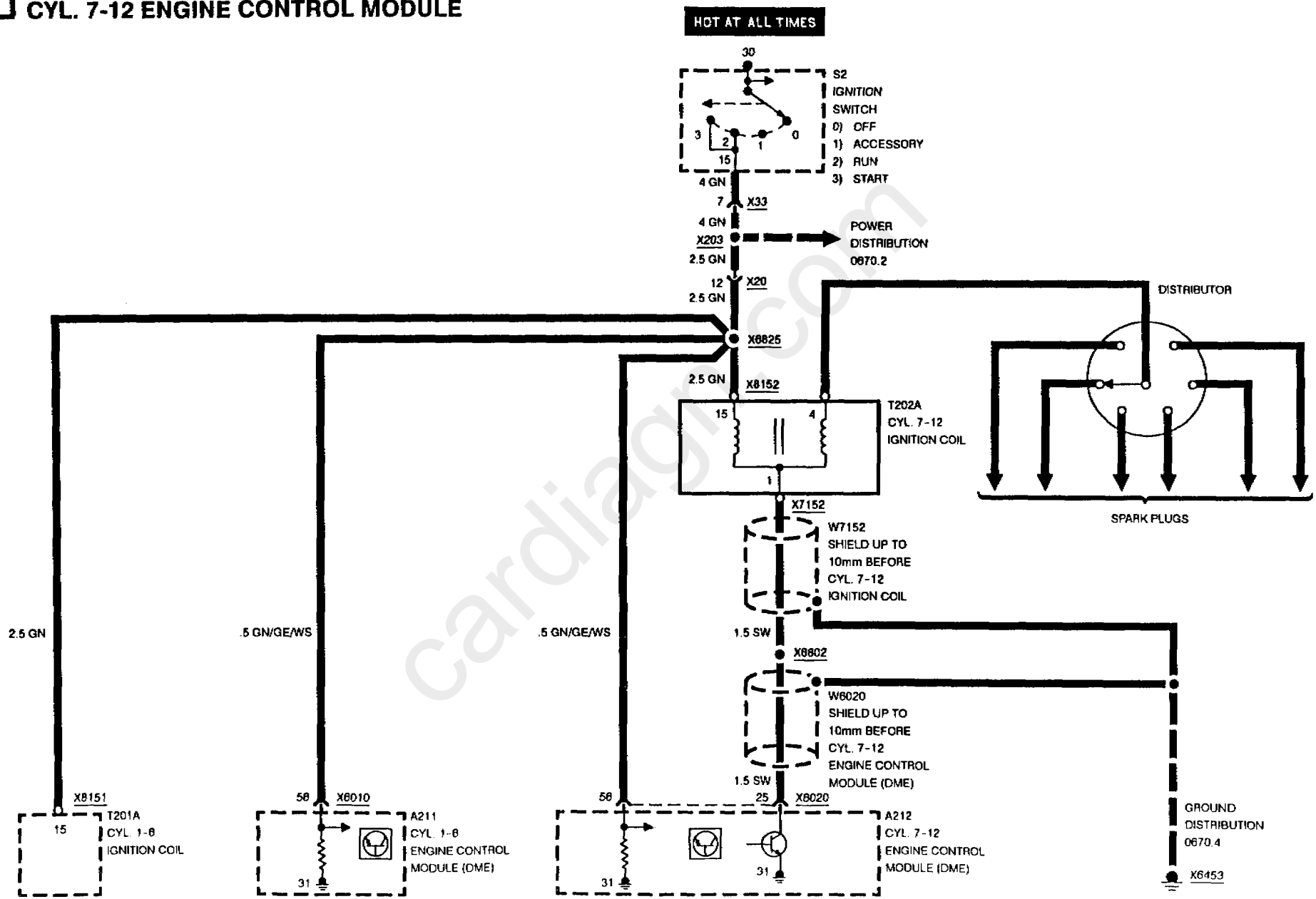
Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
82	E	ASC/MSR	ASC or ASC + T	U–Batt	ON	U–Batt => signal active
83	E	ASC/ZAB	Only for ASC without T	U–Batt	ON	U–Batt => signal active
84		Not used				
85	E	Identifier, DME control unit II	Ground point	Ground	DME cyl. 7...12	The DME control unit can only be selected with the diagnostic procedure when this link is set up.
86		Not used				
87	E	RxD diagnostic data line	Diagnostic connector	U–Batt		When cover of diagnostic connector closed
88	E/A	TxD diagnostic data line	Diagnostic connector	Ground		When cover of diagnostic connector closed

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ENGINE CONTROL SYSTEM (DME M1.7, 12-CYLINDER M70)

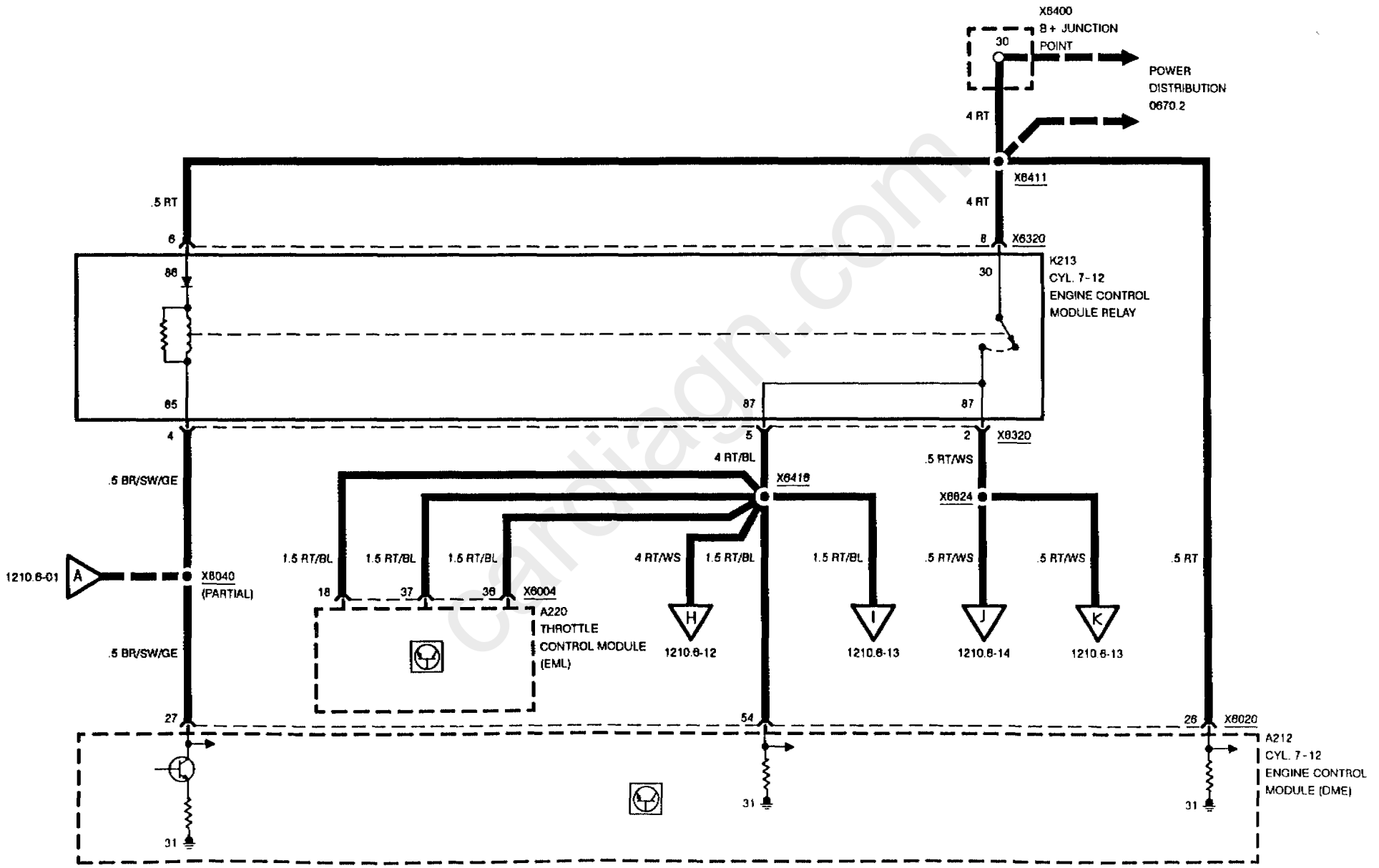
CYL. 7-12 ENGINE CONTROL MODULE



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ENGINE CONTROL SYSTEM (DME M1.7, 12-CYLINDER M70)

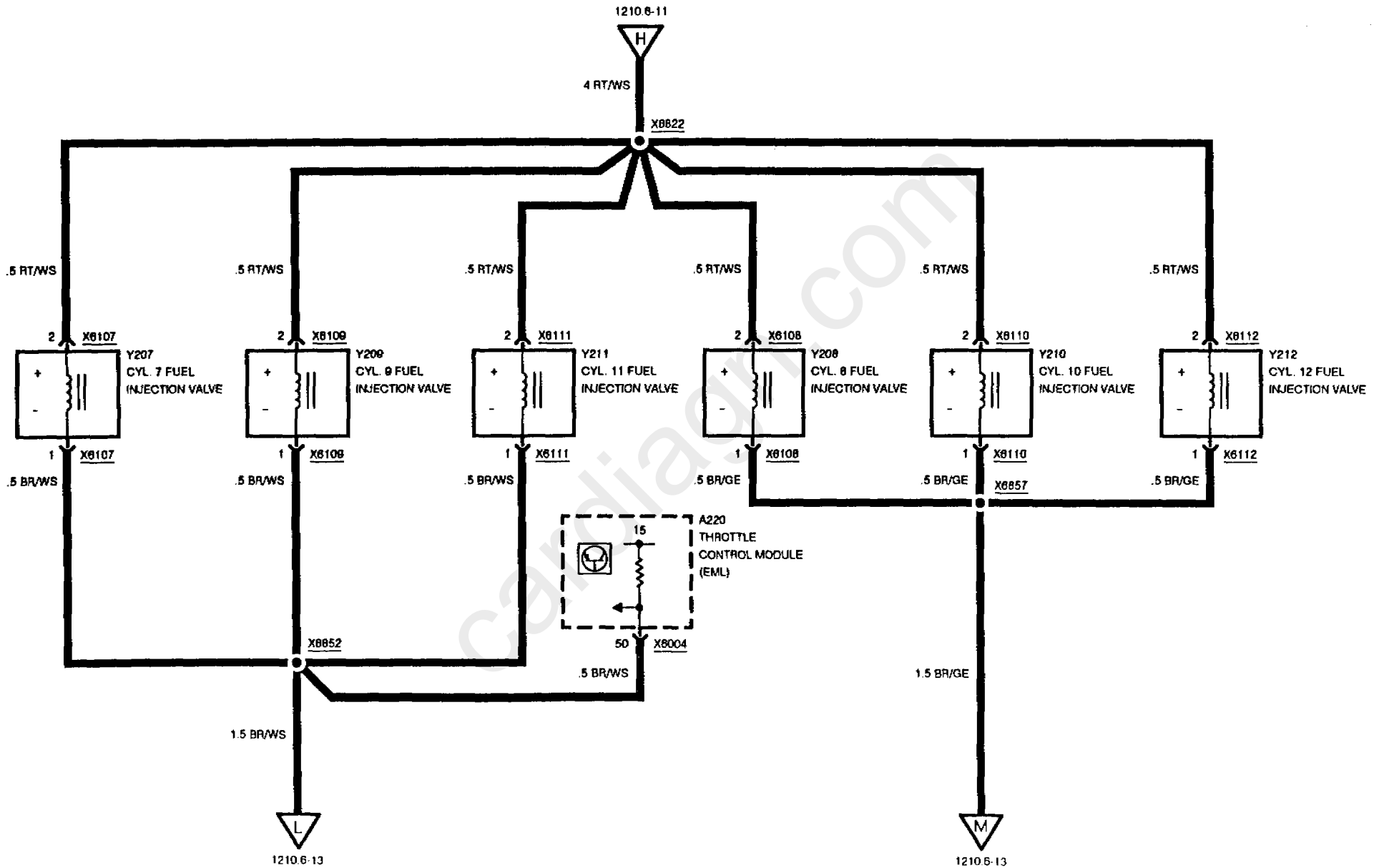
CYL. 7-12 ENGINE CONTROL MODULE



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ENGINE CONTROL SYSTEM (DME M1.7, 12-CYLINDER M70)

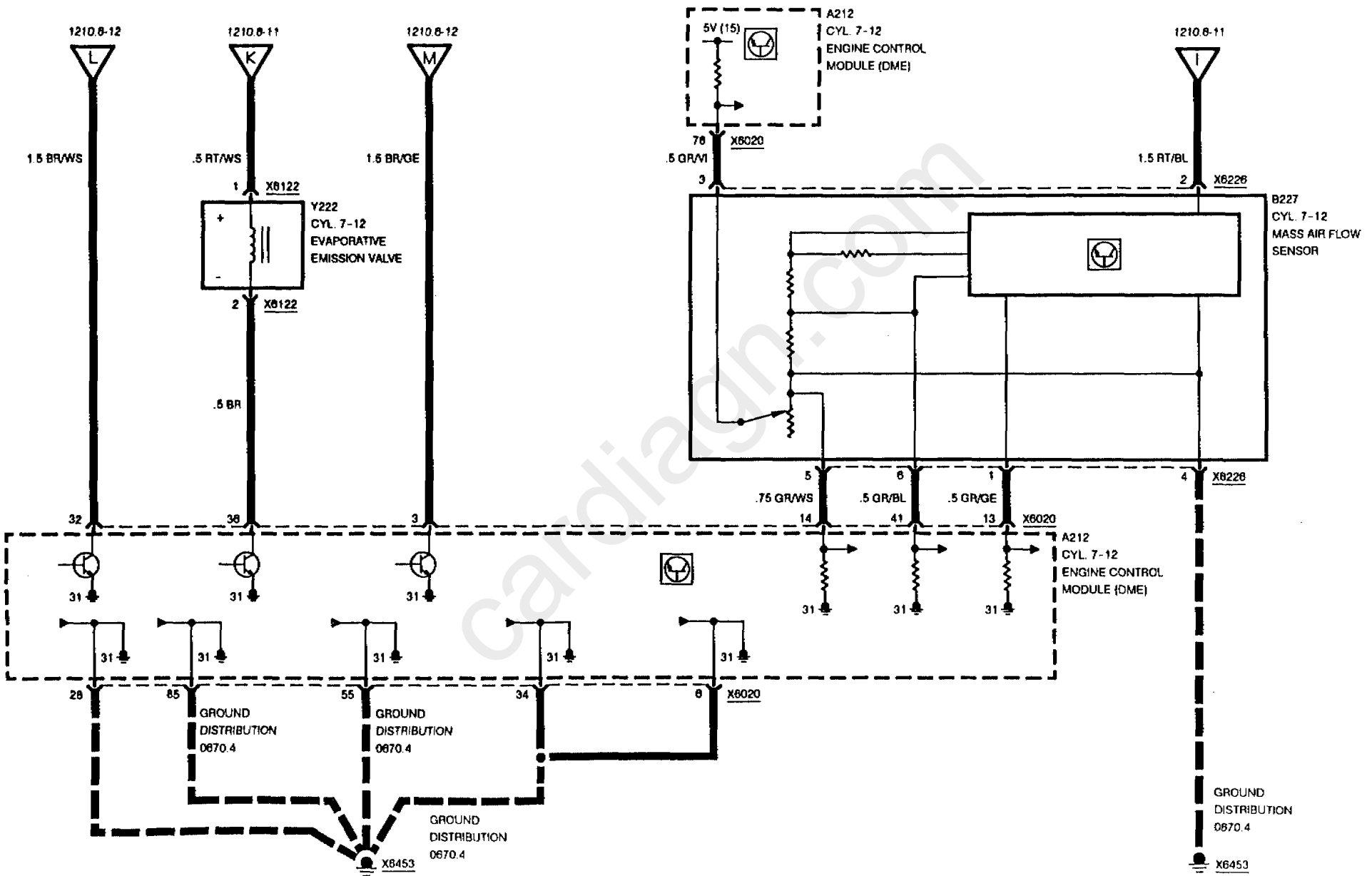
FUEL INJECTION VALVES



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ENGINE CONTROL SYSTEM (DME M1.7, 12-CYLINDER M70)

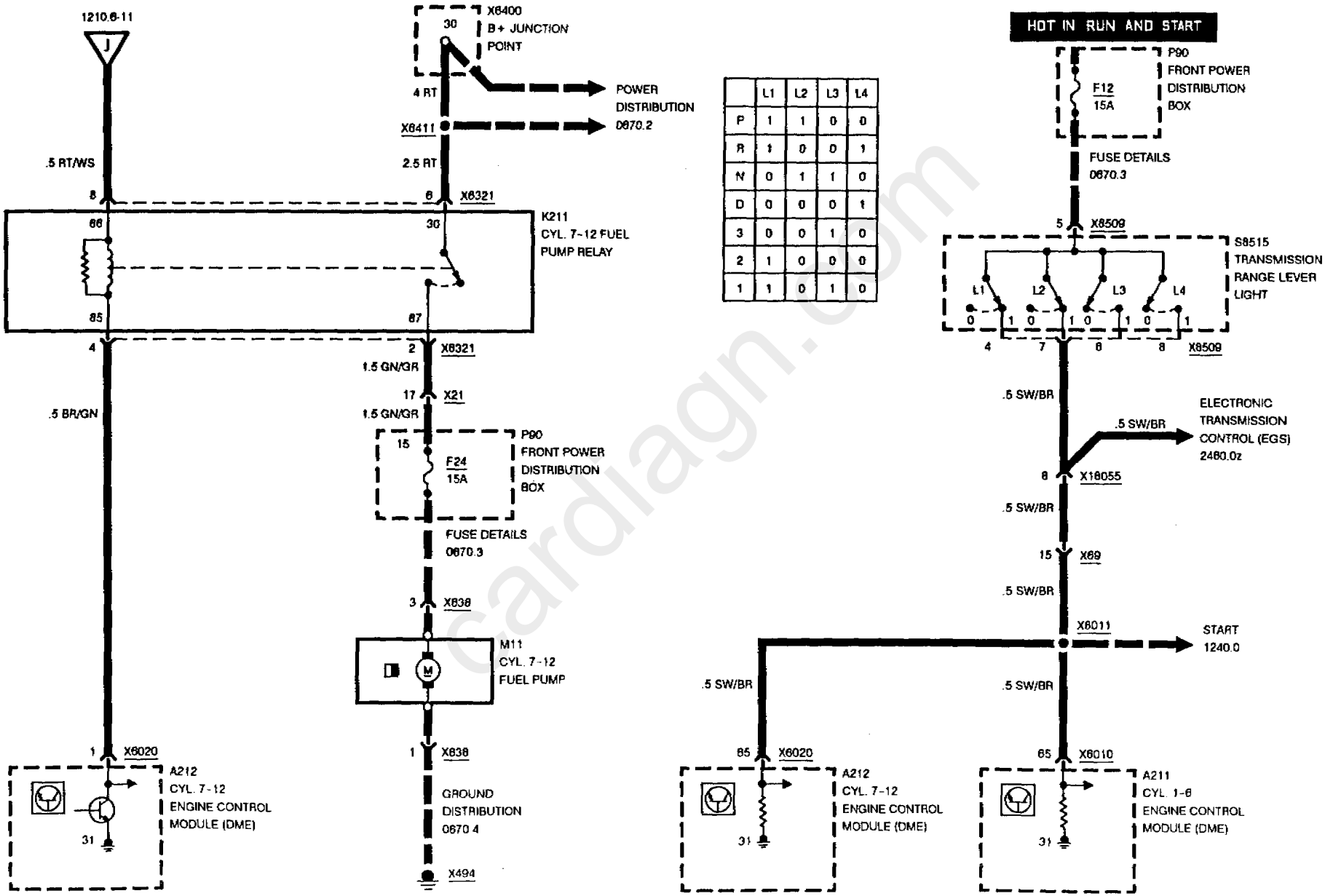
CYL. 7-12 ENGINE CONTROL MODULE



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ENGINE CONTROL SYSTEM (DME M1.7, 12-CYLINDER M70)

CYL. 7-12 ENGINE CONTROL MODULE

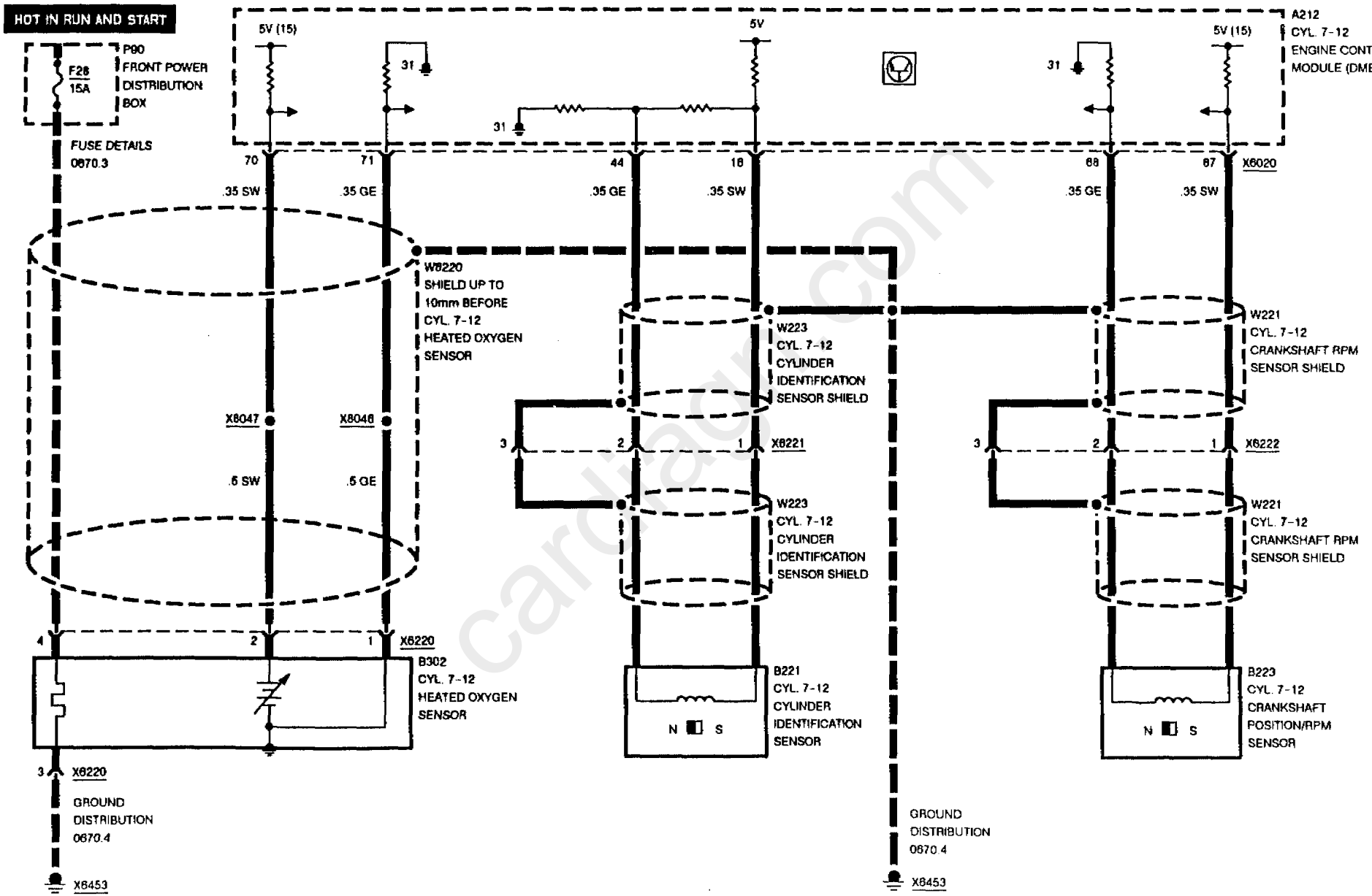


	L1	L2	L3	L4
P	1	1	0	0
R	1	0	0	1
N	0	1	1	0
D	0	0	0	1
3	0	0	1	0
2	1	0	0	0
1	1	0	1	0

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ENGINE CONTROL SYSTEM (DME M1.7, 12-CYLINDER M70)

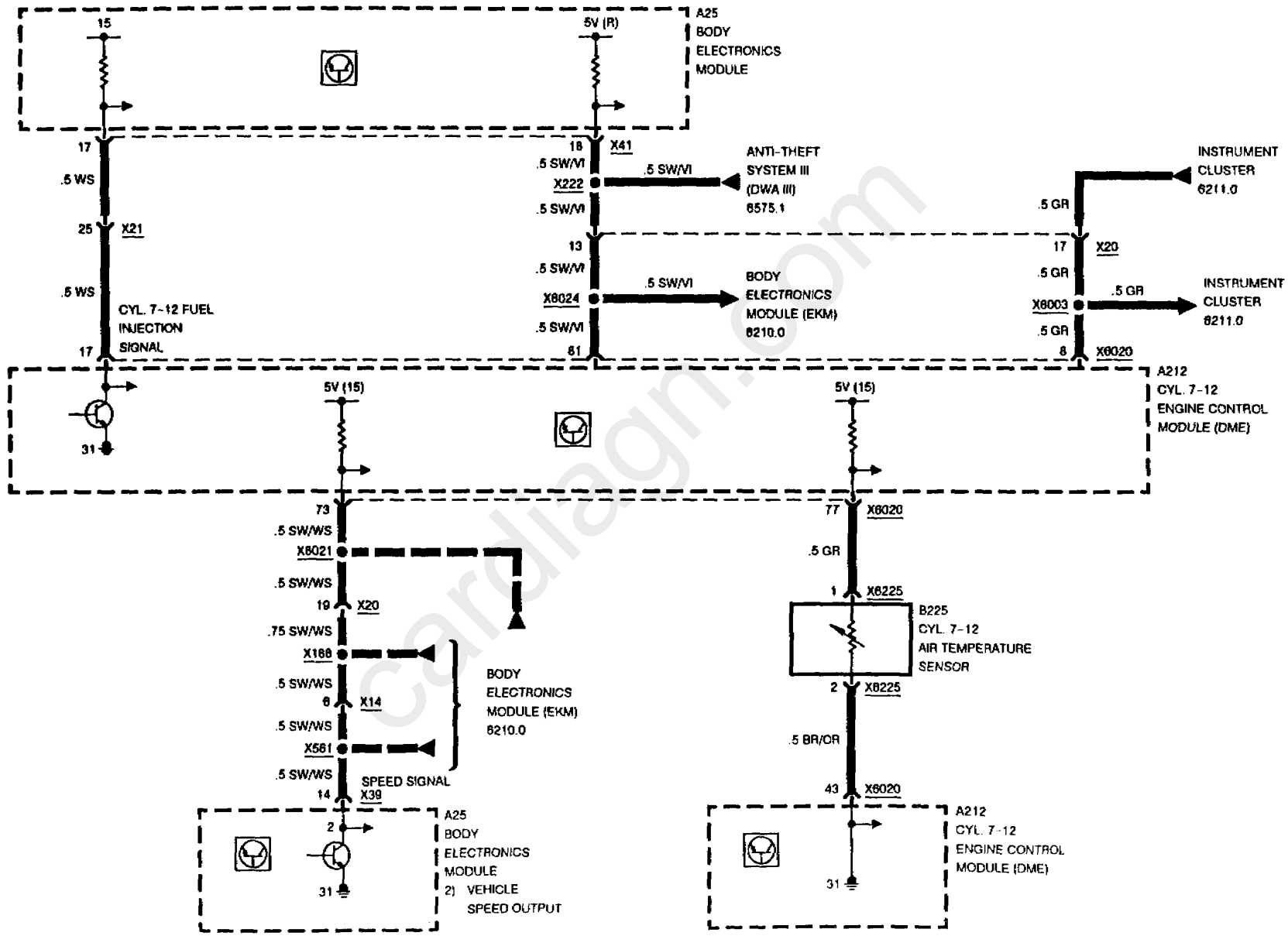
CYL. 7-12 ENGINE CONTROL MODULE



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ENGINE CONTROL SYSTEM (DME M1.7, 12-CYLINDER M70)

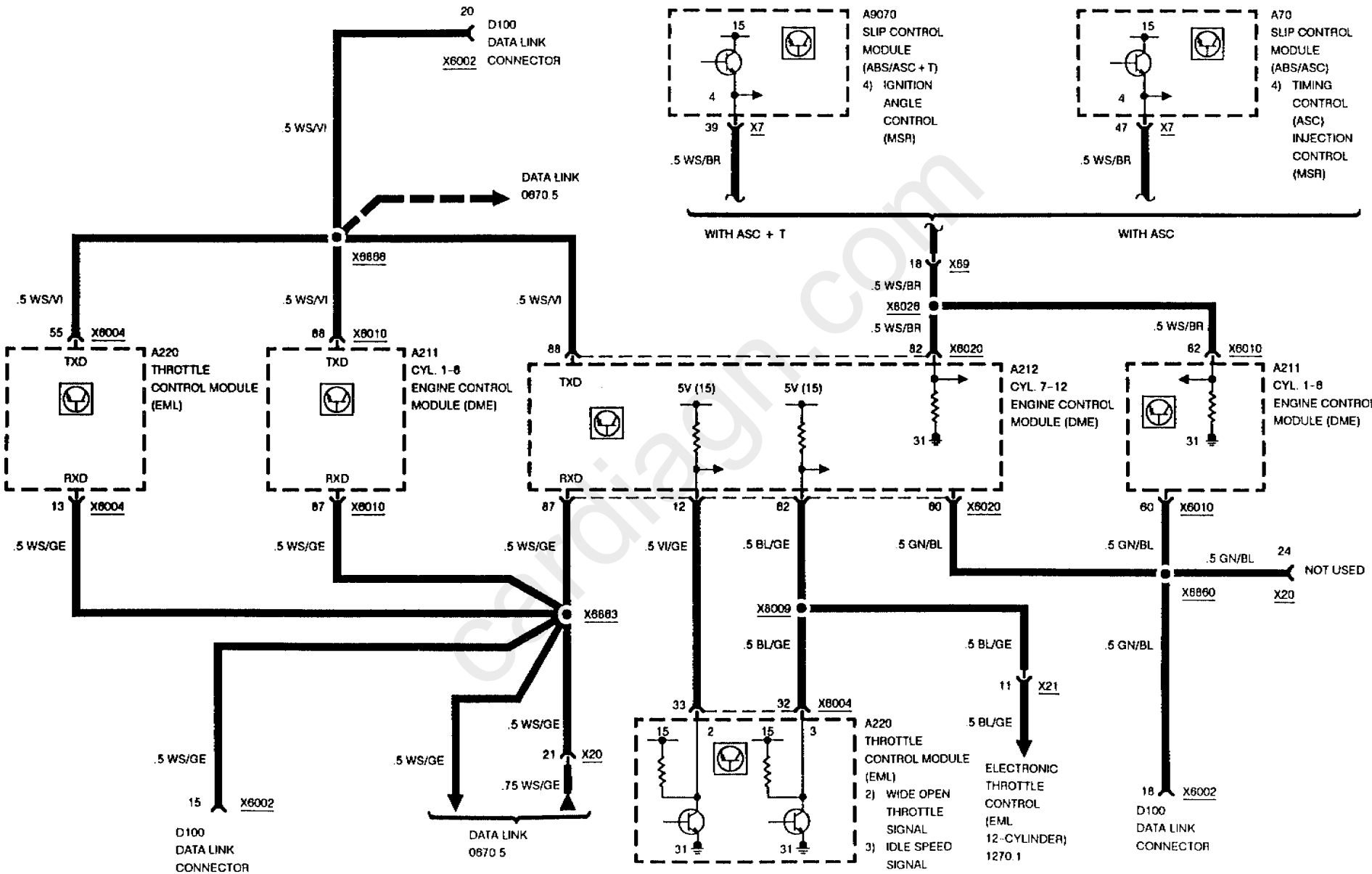
CYL. 7-12 ENGINE CONTROL MODULE



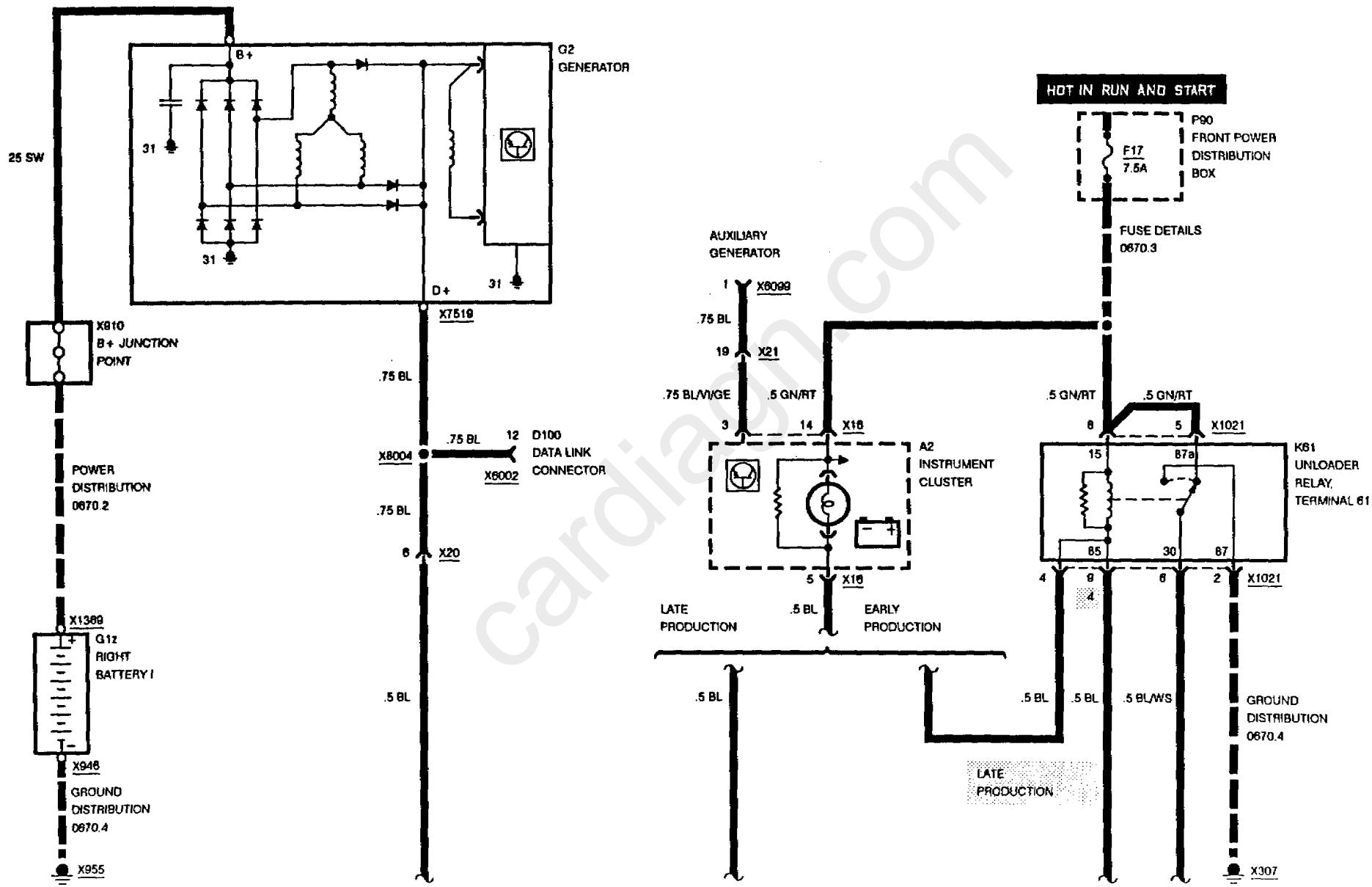
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ENGINE CONTROL SYSTEM (DME M1.7, 12-CYLINDER M70)

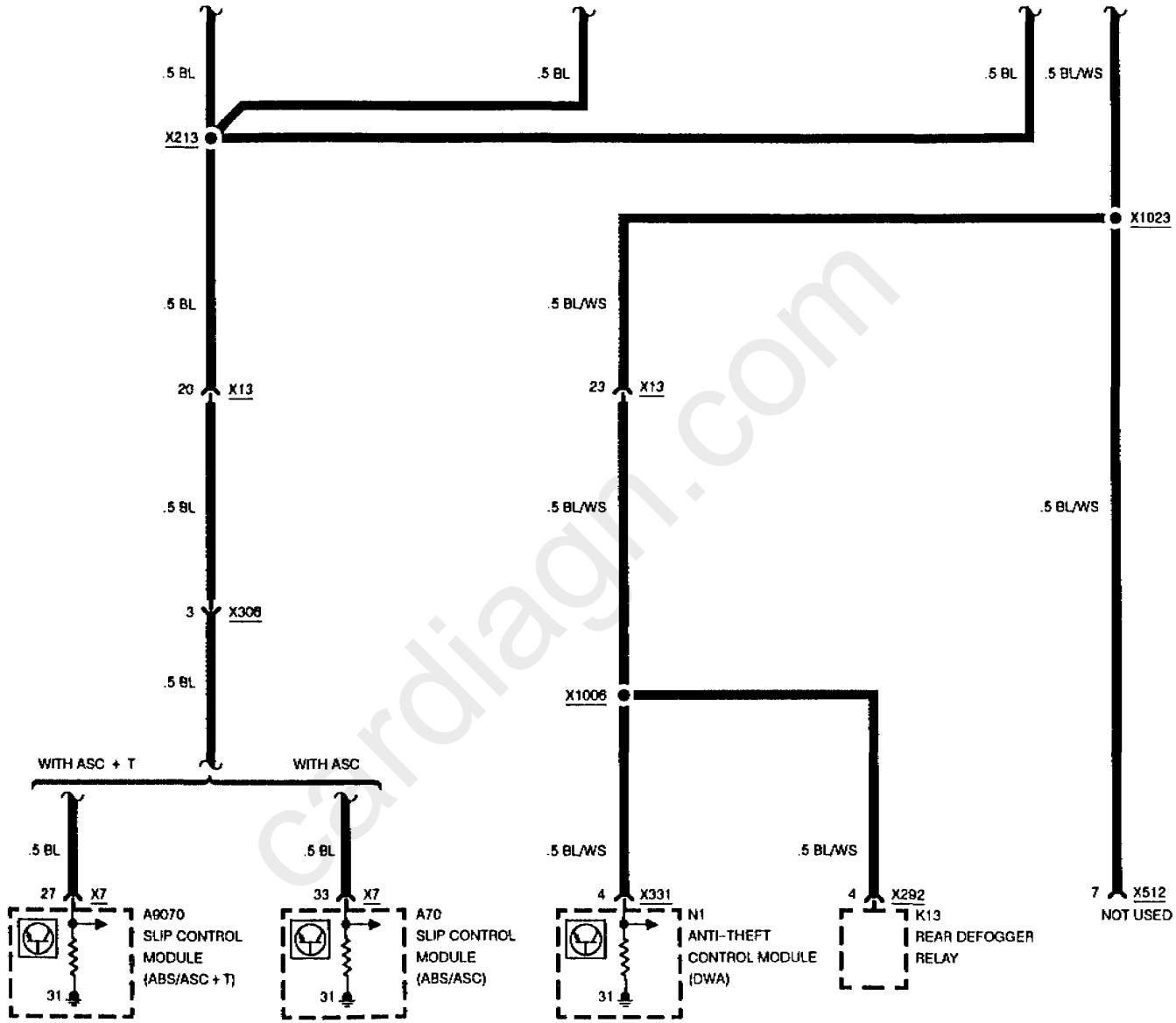
CYL. 7-12 ENGINE CONTROL MODULE



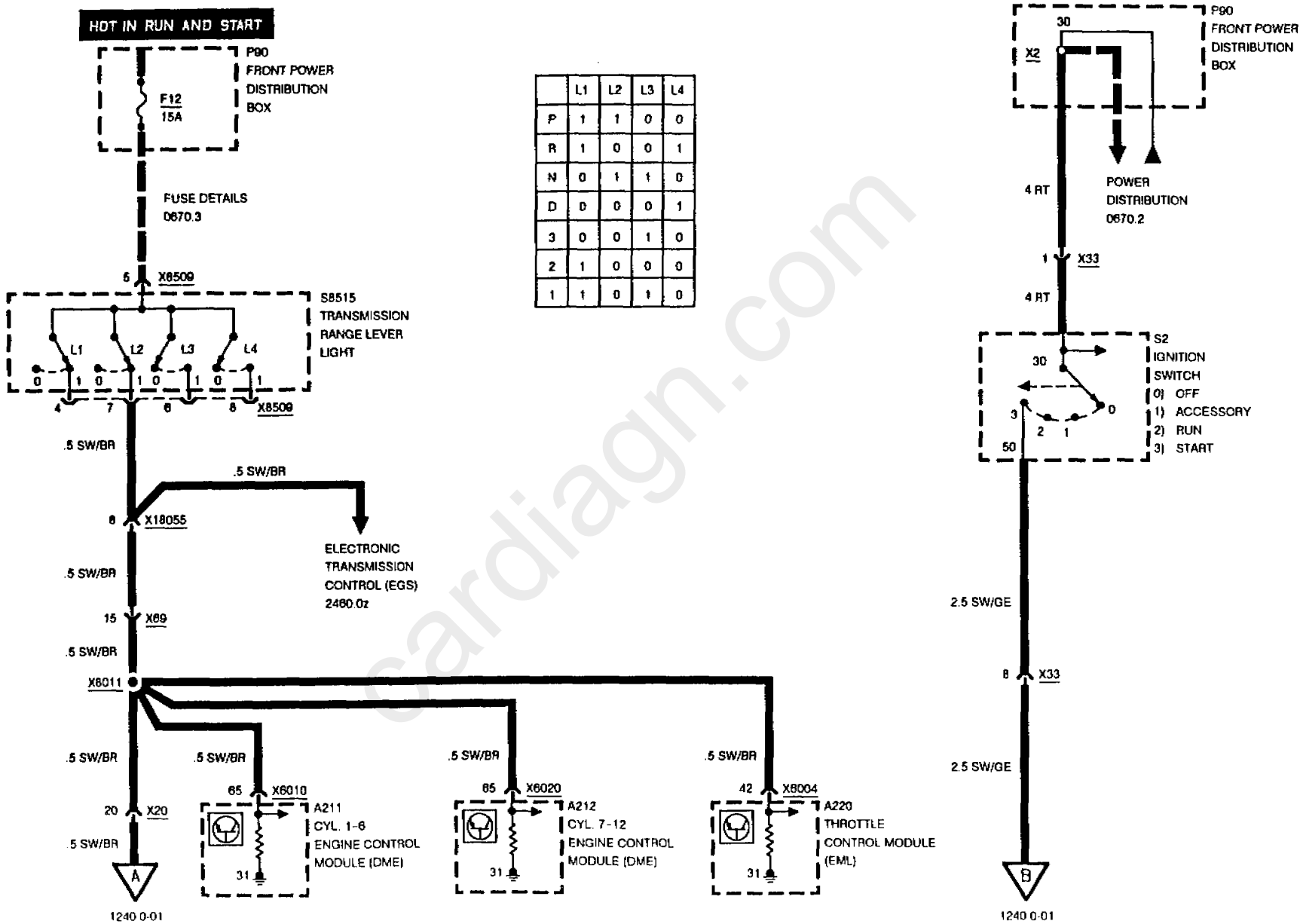
CHARGING SYSTEM



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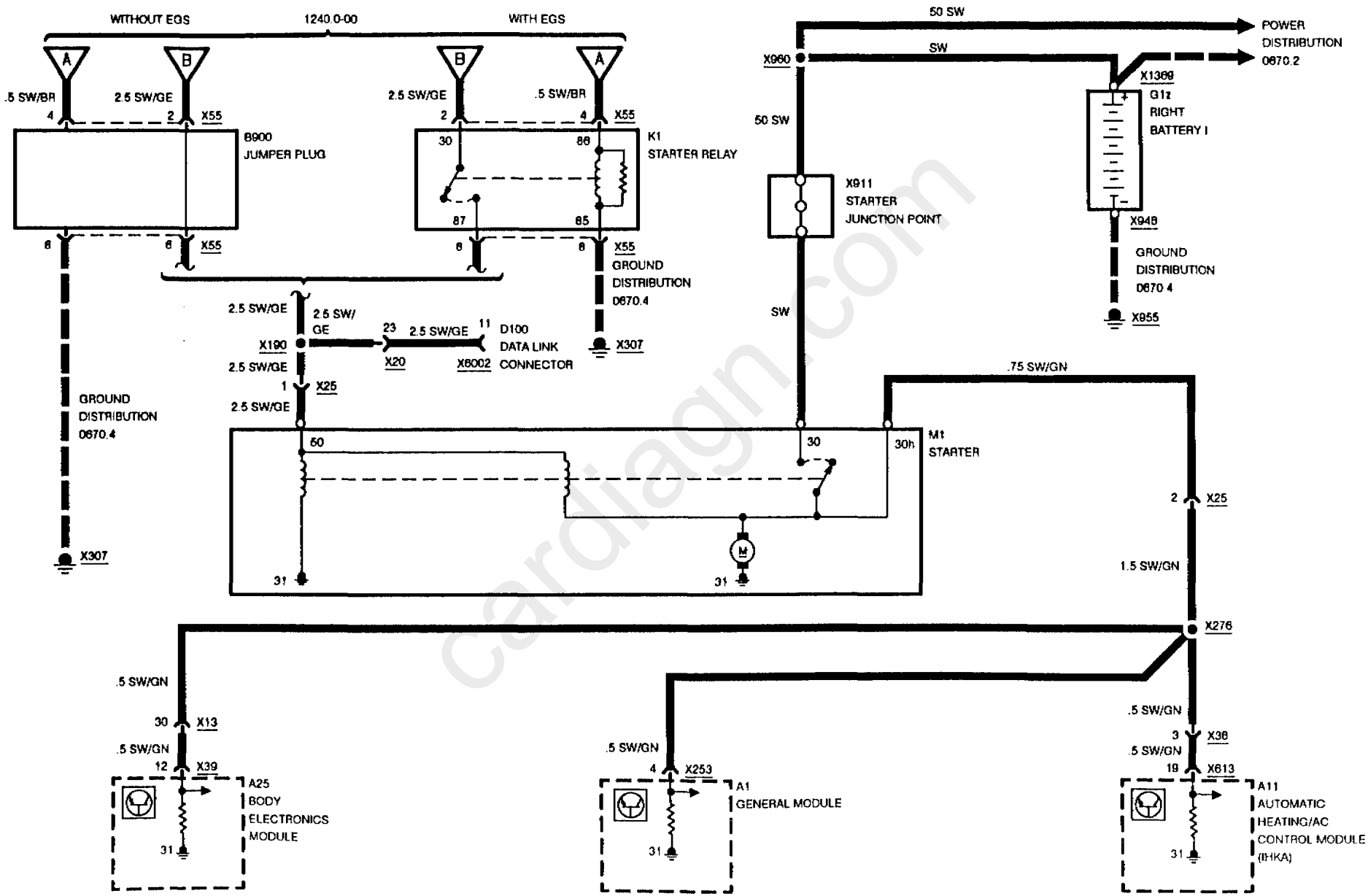
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	L1	L2	L3	L4
P	1	1	0	0
R	1	0	0	1
N	0	1	1	0
D	0	0	0	1
3	0	0	1	0
2	1	0	0	0
1	1	0	1	0

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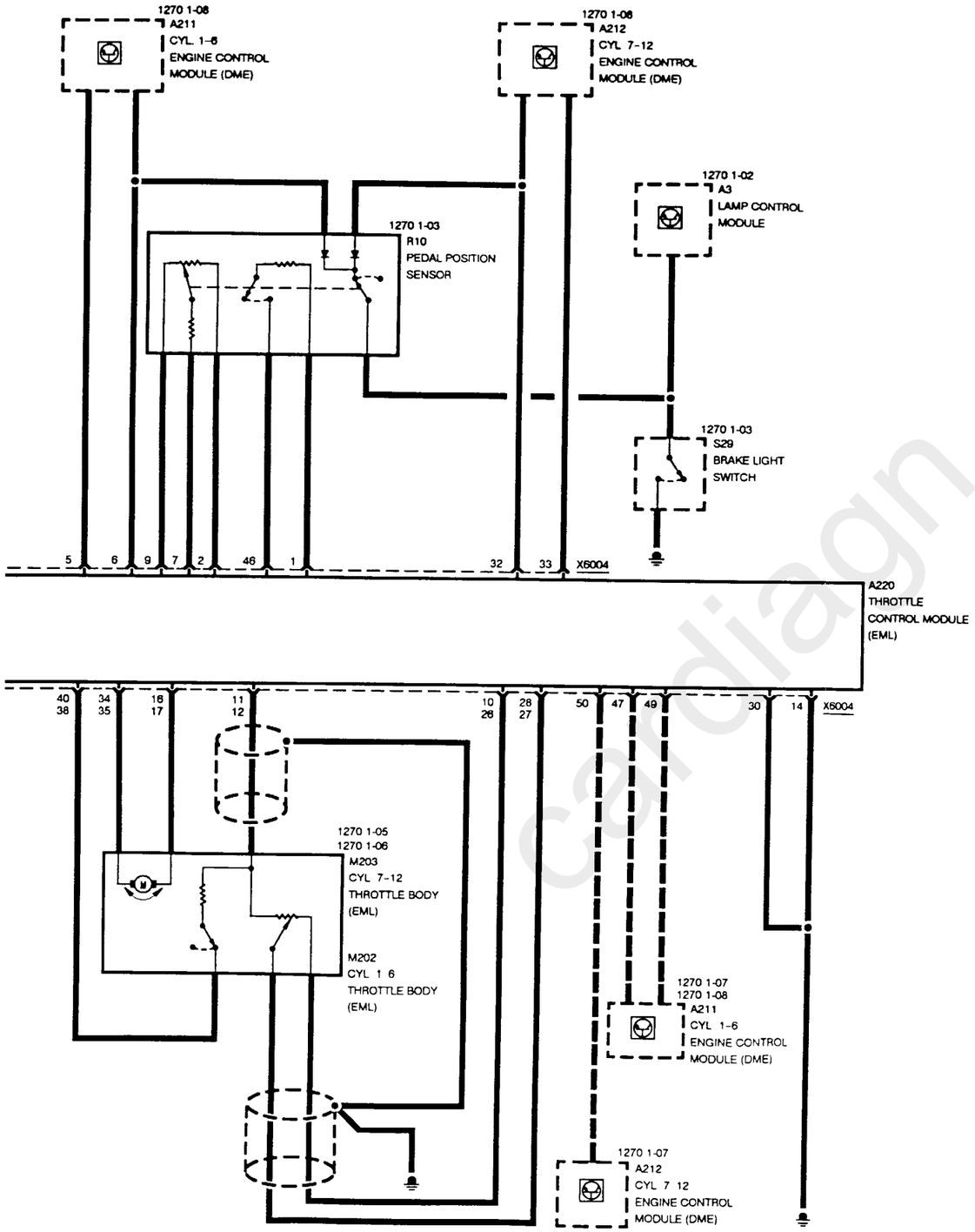
START



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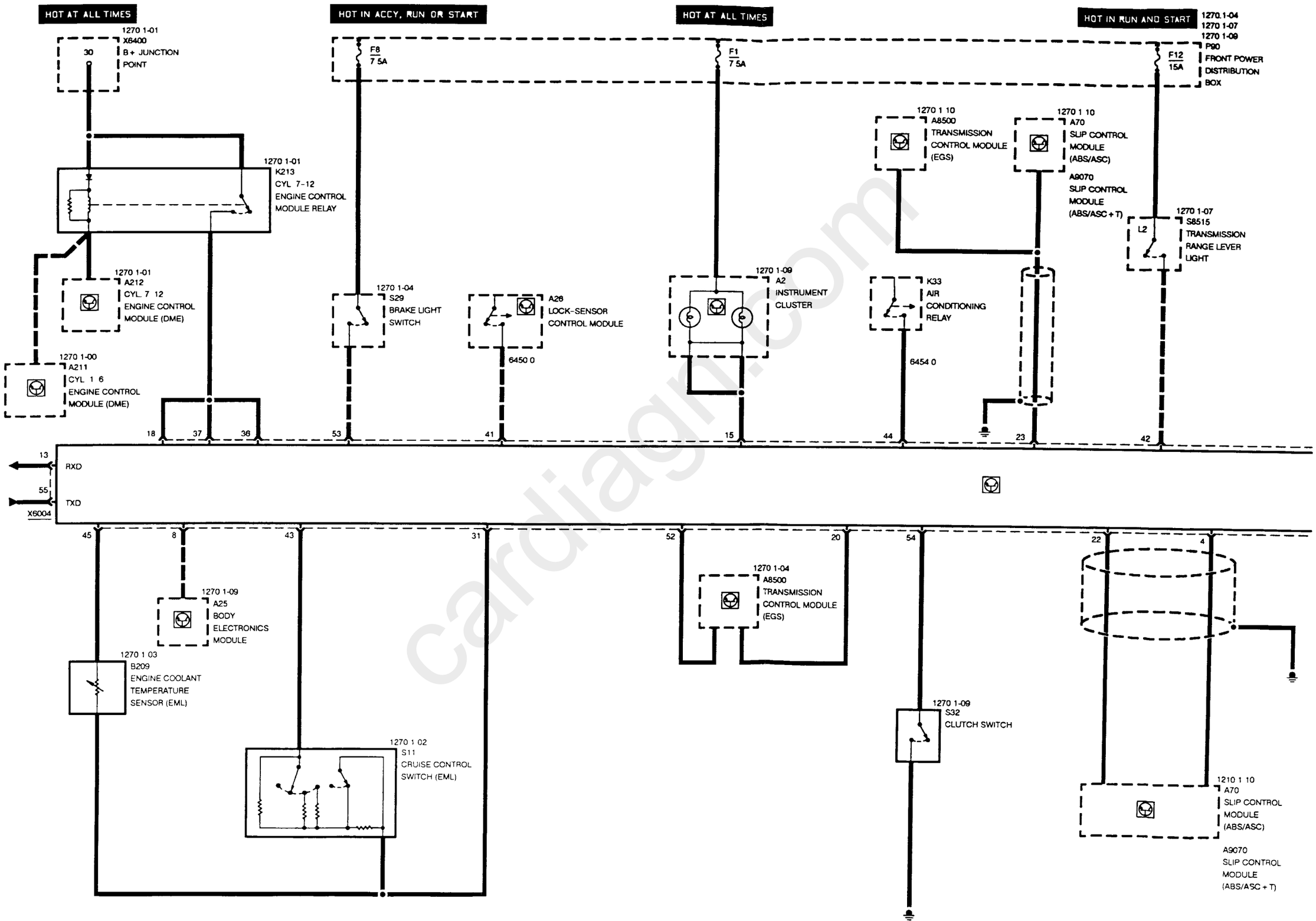
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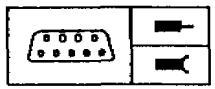


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Pin Assignments

X6004

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	A	5 V (not short-circuit-proof)	PWG switch	approx. 5 V	None	
2	M	Ground (electronic ground)	Component ground PWG			
3		Not used				
4	E	DK angle reduction (DKR)	ASC control unit	Square-wave signal	Defect code is stored	◆ M ◆14 approx. 100 Hz
5	A	Full load signal	DME control unit 1...6. cylinder	approx. 0 V open	ON OFF	
6	A	Idle signal	DME control unit 1...6. cylinder	approx. 0 V open	ON OFF	
7	E	PWG position	PWG potentiometer	approx. 0,4 V to 4 V	Angle	
8	E	Road speed signal	EKM control unit	Square-wave signal	None	◆ M ◆14
9	A	5 V (not short-circuit-proof)	PWG potentiometer	approx. 5 V	None	
10	M	Ground (electronic ground)	Component ground DK - 7...12. cylinder			
11	A	5 V (not-short-circuit-proof)	DK potentiometer DK 7...12. cylinder	approx. 5 V	None	
12	A	5 V (not-short-circuit-proof)	DK potentiometer DK 1...6. cylinder	approx. 5 V	None	

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ELECTRONIC THROTTLE CONTROL (EML 12–CYLINDER)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
13	E	Diagnosis	Diagnostic socket RxD			
14	M	Ground (Output ground)	Output ground DK 1...6. cylinder			
15 *)	A E	EML warning lamp Voltage supply for defect code memory	Instrument cluster	approx. 0 V approx. 12 V	ON None	*) With ignition switched off
16	A	Drive throttle (DK) actuator	DK actuator DK – 7...12. cylinder	Square–wave signal	Defect code is stored	
17	A	Drive throttle (DK) actuator	DK actuator DK 1...6. cylinder	Square–wave signal	Defect code is stored	
18	E	Voltage supply (+)	DME main relay 2 7...12. cylinder	On–board voltage	None	
19	M	Ground	Ground point			
20	A	Kick–down signal	EGS control unit	approx. 0 V approx. 12 V	ON OFF	
21		Not used				
22	E	DK angle increase (DKE)	ASC control unit	Square–wave signal	Defect code is stored	◆ M ◆ 14 approx. 100 Hz
23	A	DK angle signal (DKV)	ASC/EGS	Square–wave signal	Defect code is stored	◆ M ◆ 14 approx. 100 Hz
24		Not used				
25		Not used				
26	M	Ground (electronic ground)	Component ground DK 1...6. cylinder			
27	E	Throttle position	DK potentiometer DK 1...6. cylinder	approx. 4,6 V to 1 V	Angle	

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ELECTRONIC THROTTLE CONTROL (EML 12–CYLINDER)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
28	E	Throttle position	DK potentiometer DK 7...12. cylinder	approx. 4,6 V to 1 V	Angle	
29		Not used				
30	M	Ground (output ground)	Output ground DK – 7...12. cylinder			
31	M	Ground (electronic ground)	Water temperature sensor			
32	A	Idle signal	DME control unit 7...12. cylinder	approx. 0 V open	ON OFF	
33	A	Full load signal	DME control unit 7...12. cylinder	approx. 0 V open	ON OFF	
34	A	Drive throttle (DK) actuator	DK actuator DK 7...12. cylinder	Square–wave signal	Defect code is stored	
35	A	Drive throttle (DK) actuator	DK actuator DK 1...6. cylinder	Square–wave signal	Defect code is stored	
36	E	Voltage supply (+)	DME main relay 2 7...12. cylinder	On–board voltage	None	
37	E	Voltage supply (+)	DME main relay 2 7...12. cylinder	On–board voltage	None	
38	E	Throttle 17° switch	DK switch DK 1...6. cylinder	approx. 5 V open	ON OFF	
39		Not used				
40	E	Throttle 17° switch	DK switch DK – 7...12. cylinder	approx. 5 V open	ON OFF	
41	E	A/C compressor ON	Lock sensor	On–board voltage open	ON OFF	

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ELECTRONIC THROTTLE CONTROL (EML 12–CYLINDER)

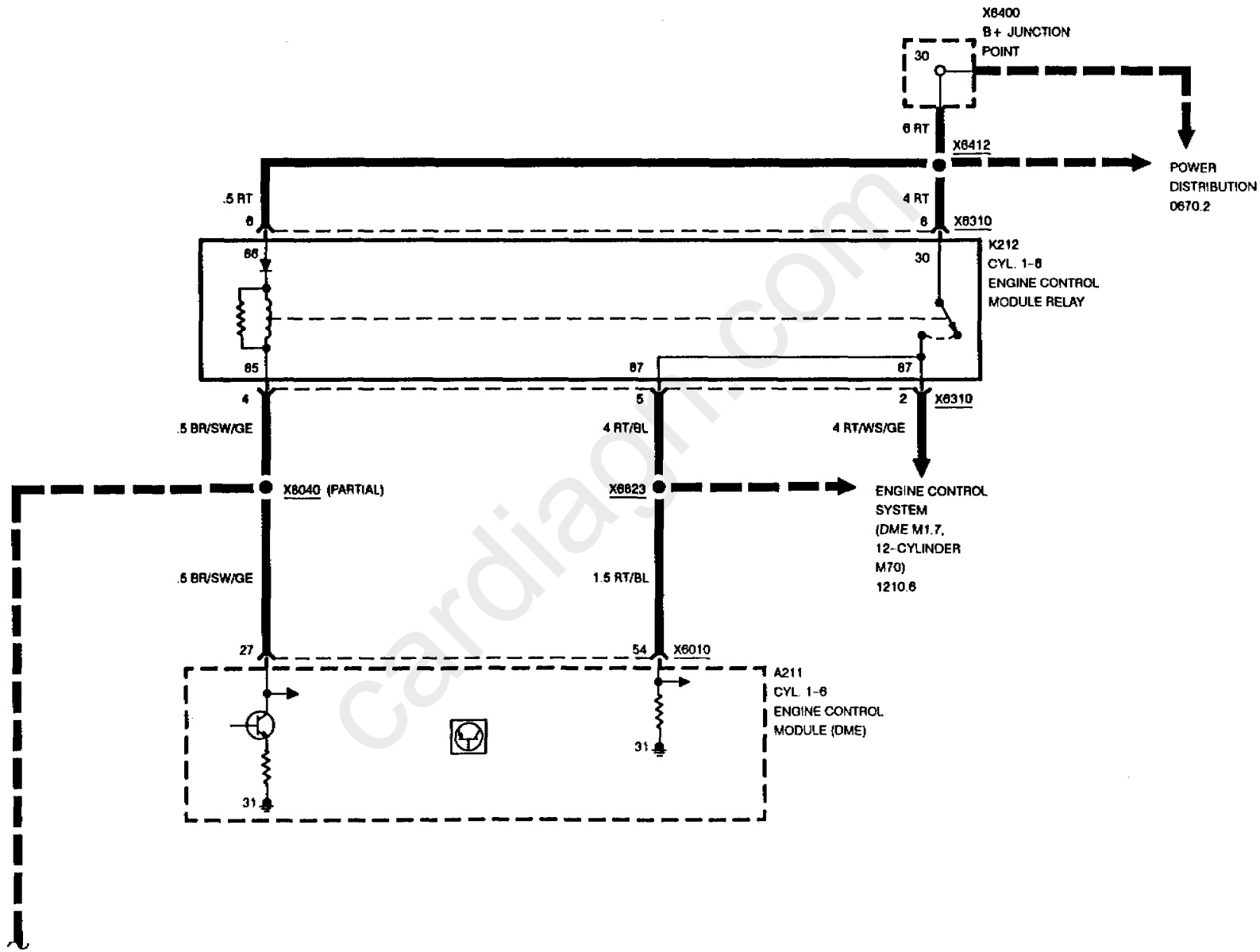
Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
42	E	P and N identifier (EGS)	Gear selector lever switch	approx. 12 V open	ON OFF	
43	E/A	FGR identifier	Cruise control switch	approx. 0 V to 5 V	Detected position	
44	E	A/C status signal	A/C relay/DME	approx. 12 V open	ON OFF	
45	E/A	Engine–coolant temperature	TMot EML sensor	approx. 0 V to 5 V	øC	
46	E	PWG > 9° switch	PWG switch	approx. 5 V open	ON OFF	
47	E	Engine speed signal (TD)	DME control unit 1...6. cylinder	Square–wave signal	None	
48		Not used				
49	E	Injection signal (ti)	DME control unit 1...6. cylinder	Square–wave signal	Defect code is stored	
50	E	Injection signal (ti)	DME control unit 7...12. cylinder	Square–wave signal	Defect code is stored	
51		Not used				
52	E	S–program identifier (EGS)	EGS control unit	ca. 0 V open	ON OFF	
53	E	Brake pedal position	Brake light switch	approx. 12 V open	ON OFF	
54	E	Clutch pedal position	Clutch switch			
55	E/A	Diagnosis	Diagnostic socket TxD			

E = Input, A = Output, M = Ground

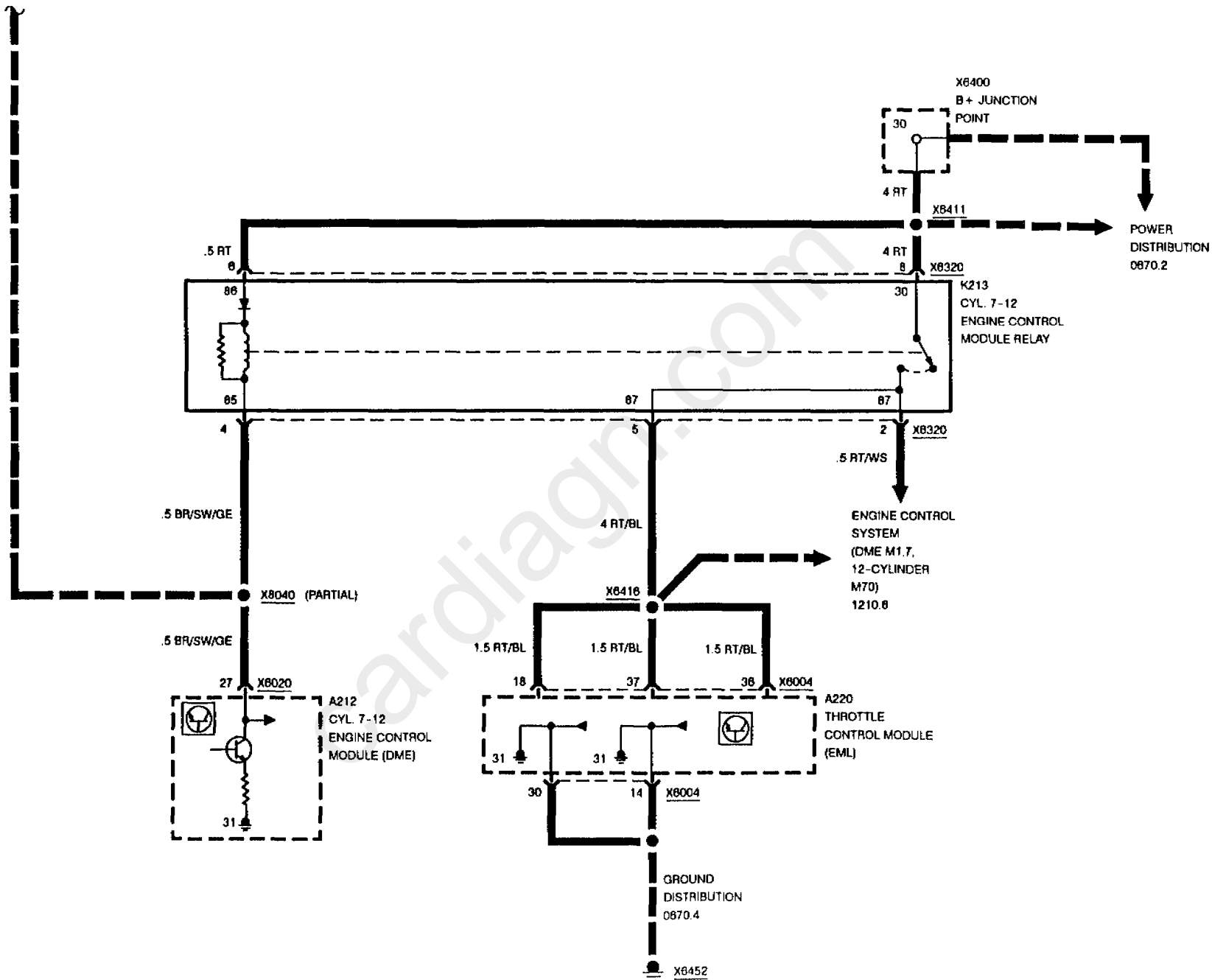
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ELECTRONIC THROTTLE CONTROL (EML 12-CYLINDER)

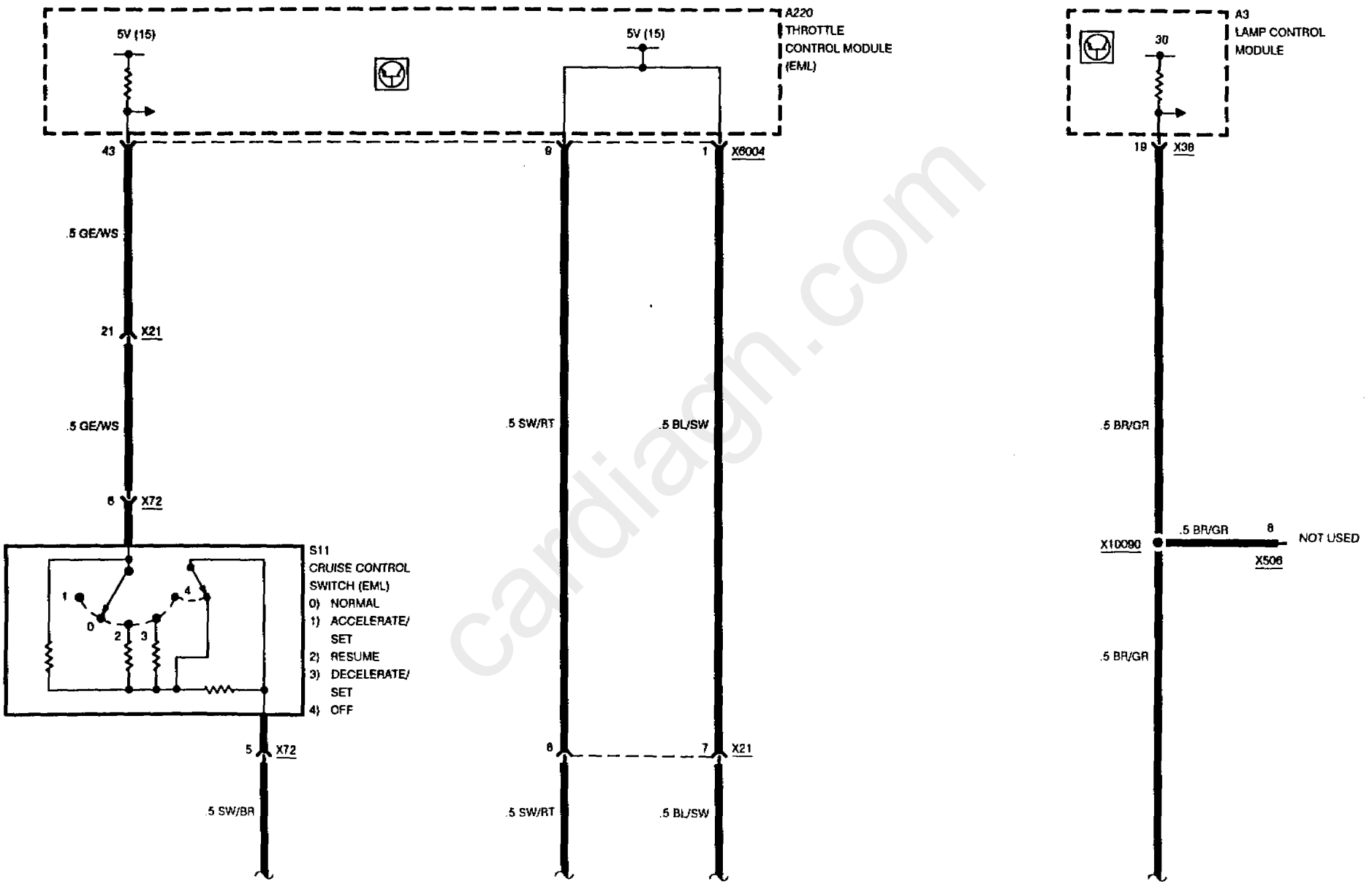


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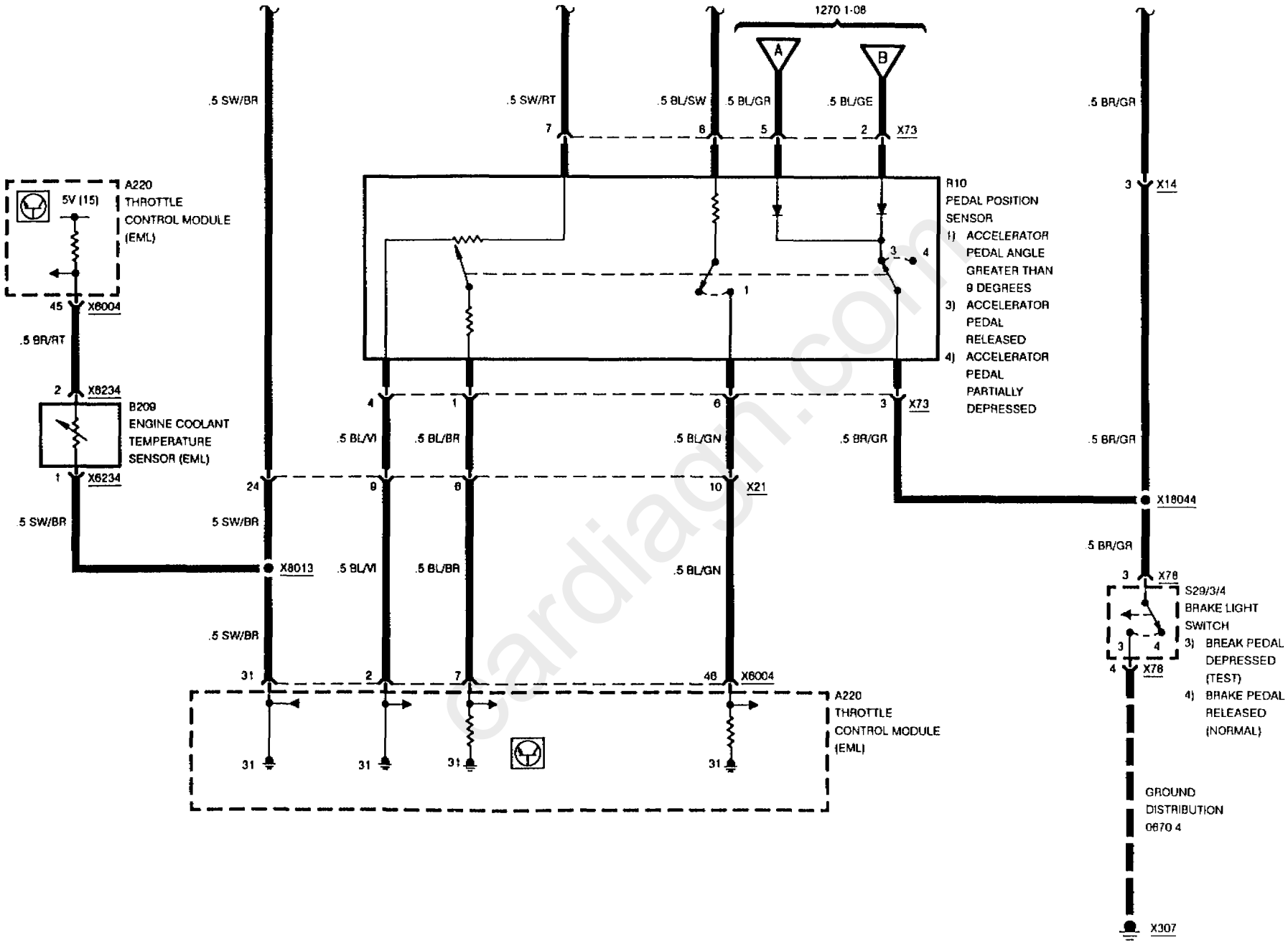

X6400
B+ JUNCTION
POINT
30
4 RT
X6411
POWER
DISTRIBUTION
0670.2
.5 RT
6
4 RT
8
X6320
86
30
K213
CYL. 7-12
ENGINE CONTROL
MODULE RELAY
85
87
87
4
5
2
X6320
.5 RT/WS
ENGINE CONTROL
SYSTEM
(DME M1.7,
12-CYLINDER
M70)
1210.6
.5 BR/SW/GE
4 RT/BL
X8040 (PARTIAL)
X6416
.5 BR/SW/GE
1.5 RT/BL
1.5 RT/BL
1.5 RT/BL
27
X6020
18
37
36
X6004
A212
CYL. 7-12
ENGINE CONTROL
MODULE (DME)
A220
THROTTLE
CONTROL MODULE
(EML)
31
31
31
30
14
X6004
GROUND
DISTRIBUTION
0670.4
X6452

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ELECTRONIC THROTTLE CONTROL (EML 12-CYLINDER)

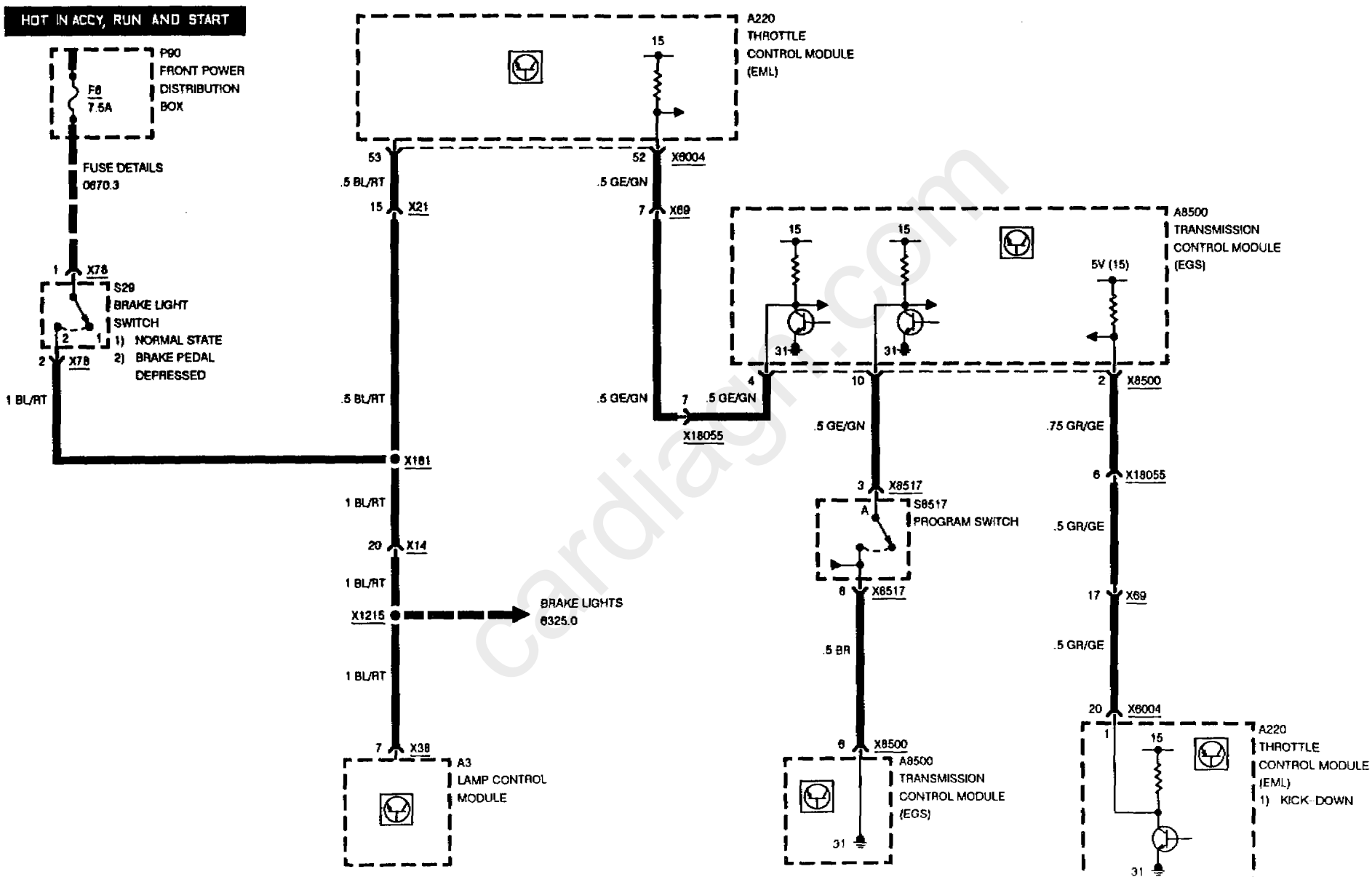


cardiagn.com



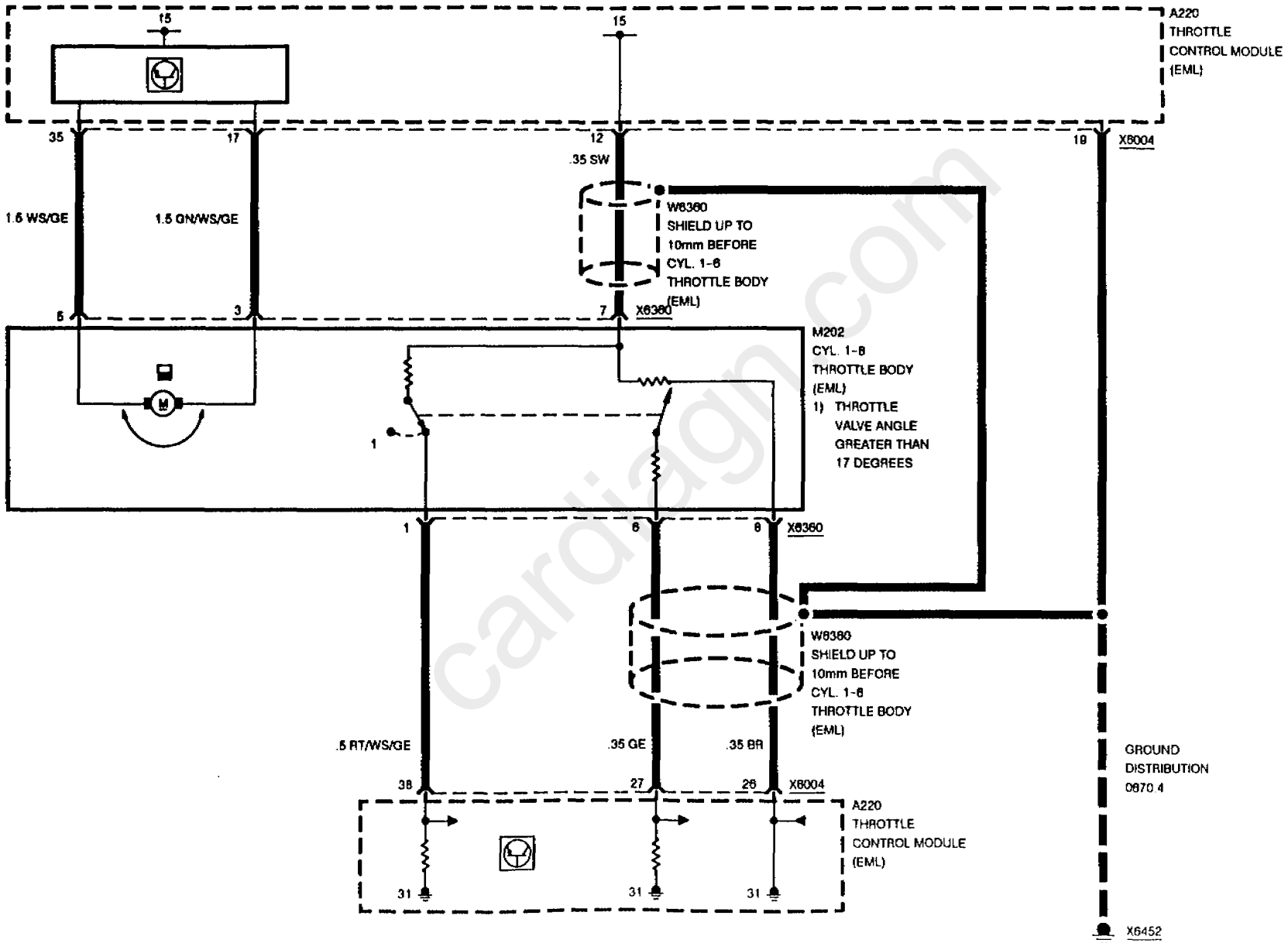
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ELECTRONIC THROTTLE CONTROL (EML 12-CYLINDER)



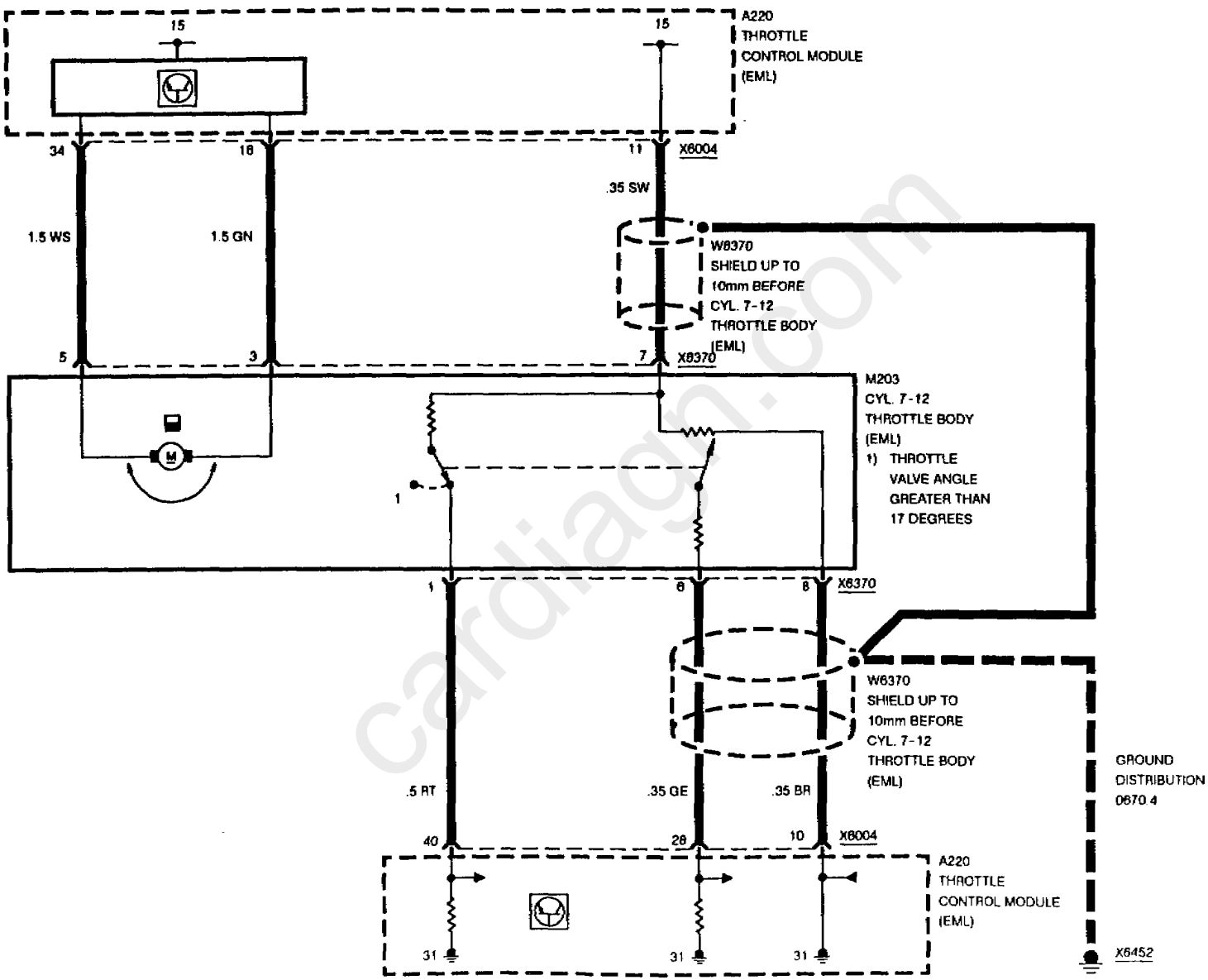
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ELECTRONIC THROTTLE CONTROL (EML 12-CYLINDER)



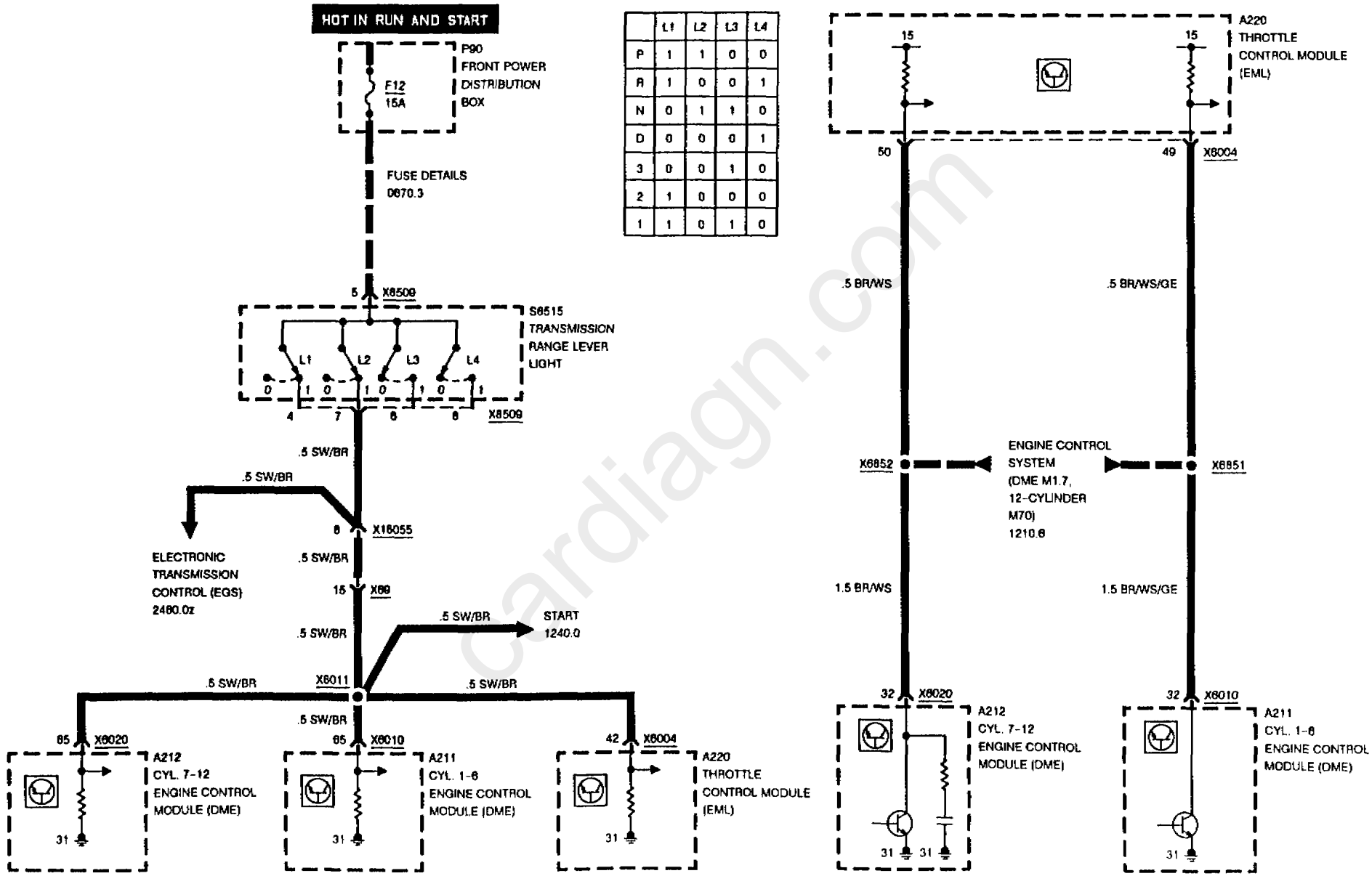
cardiagn.com

ELECTRONIC THROTTLE CONTROL (EML 12-CYLINDER)



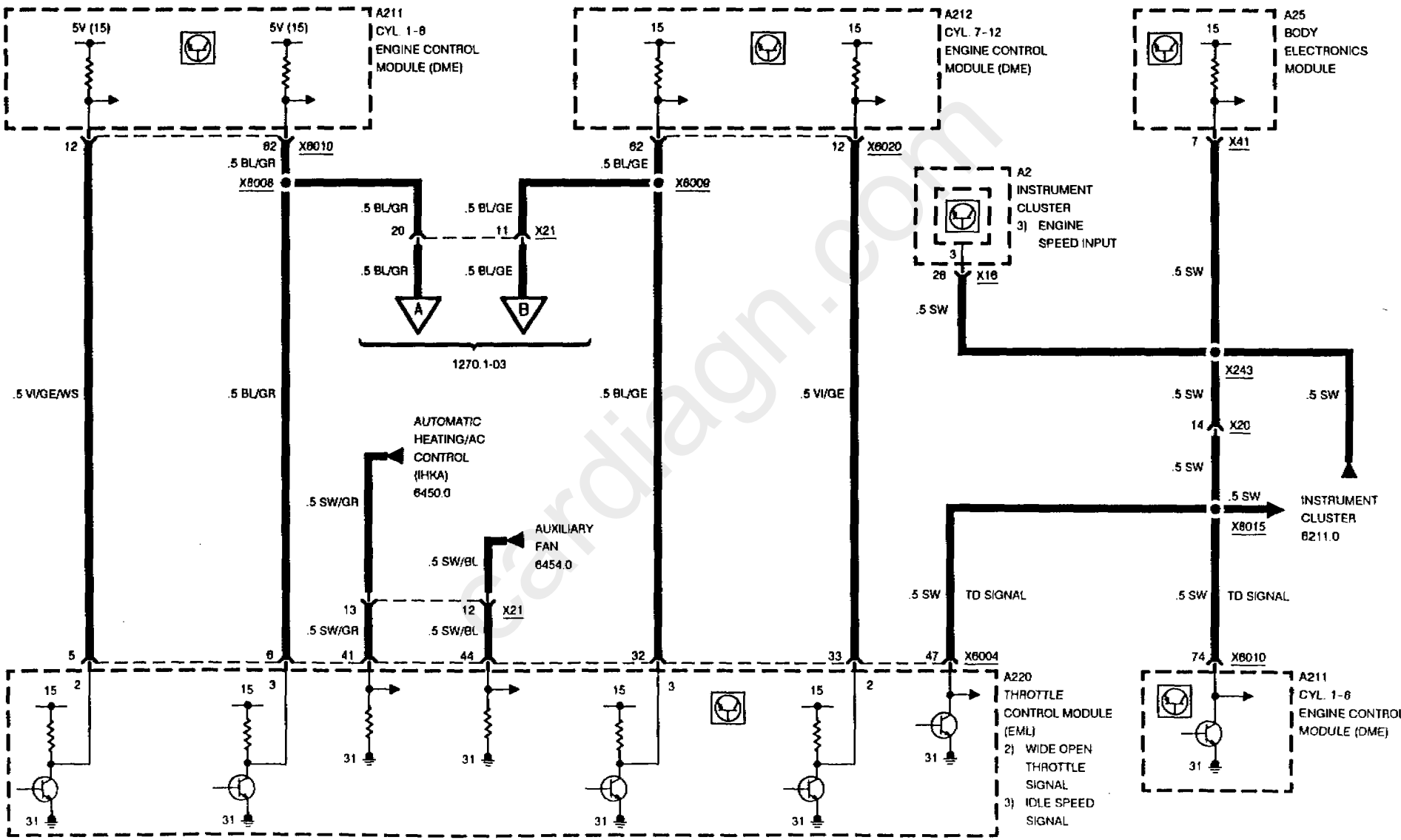
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ELECTRONIC THROTTLE CONTROL (EML 12-CYLINDER)



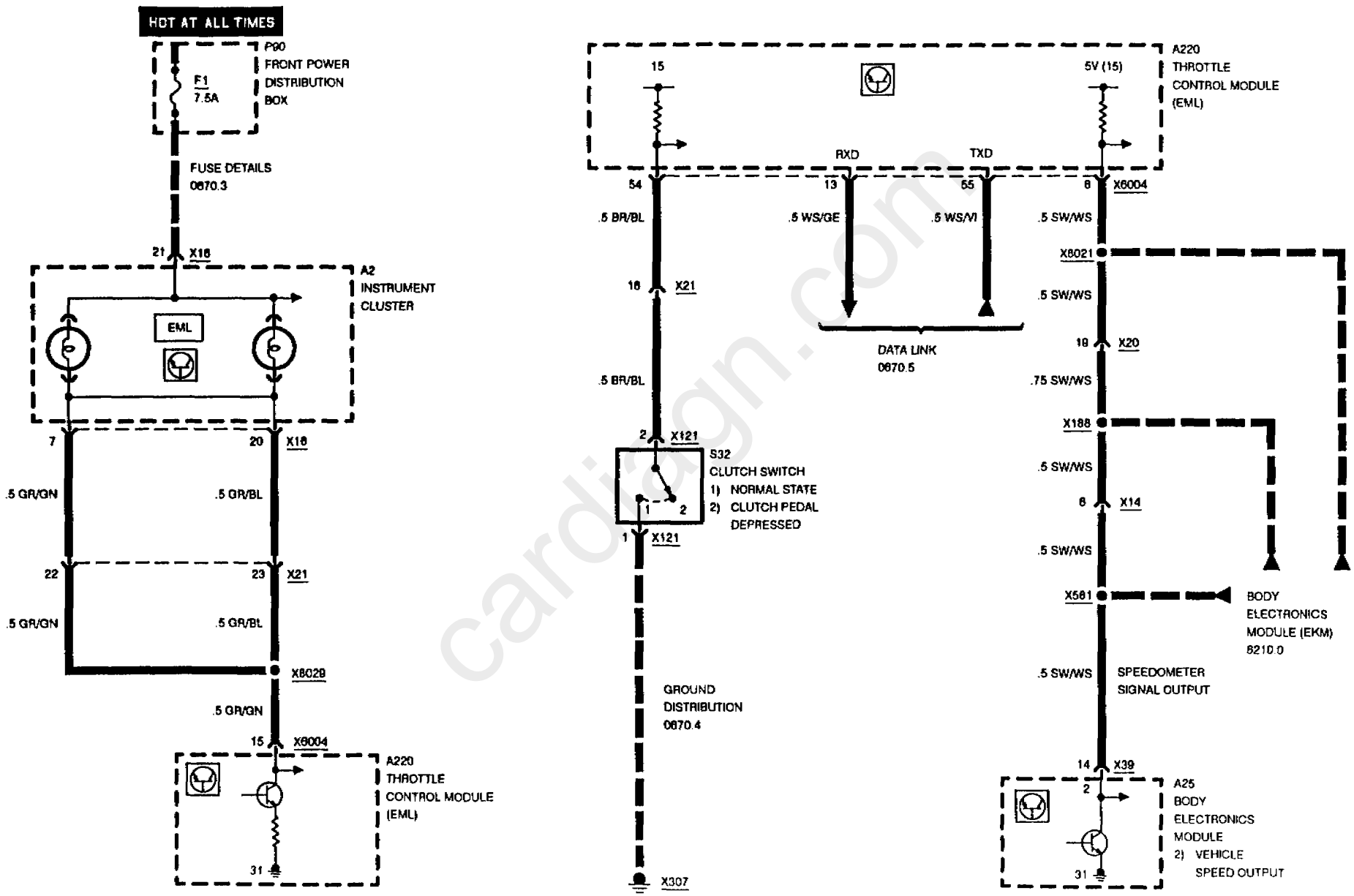
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ELECTRONIC THROTTLE CONTROL (EML 12-CYLINDER)



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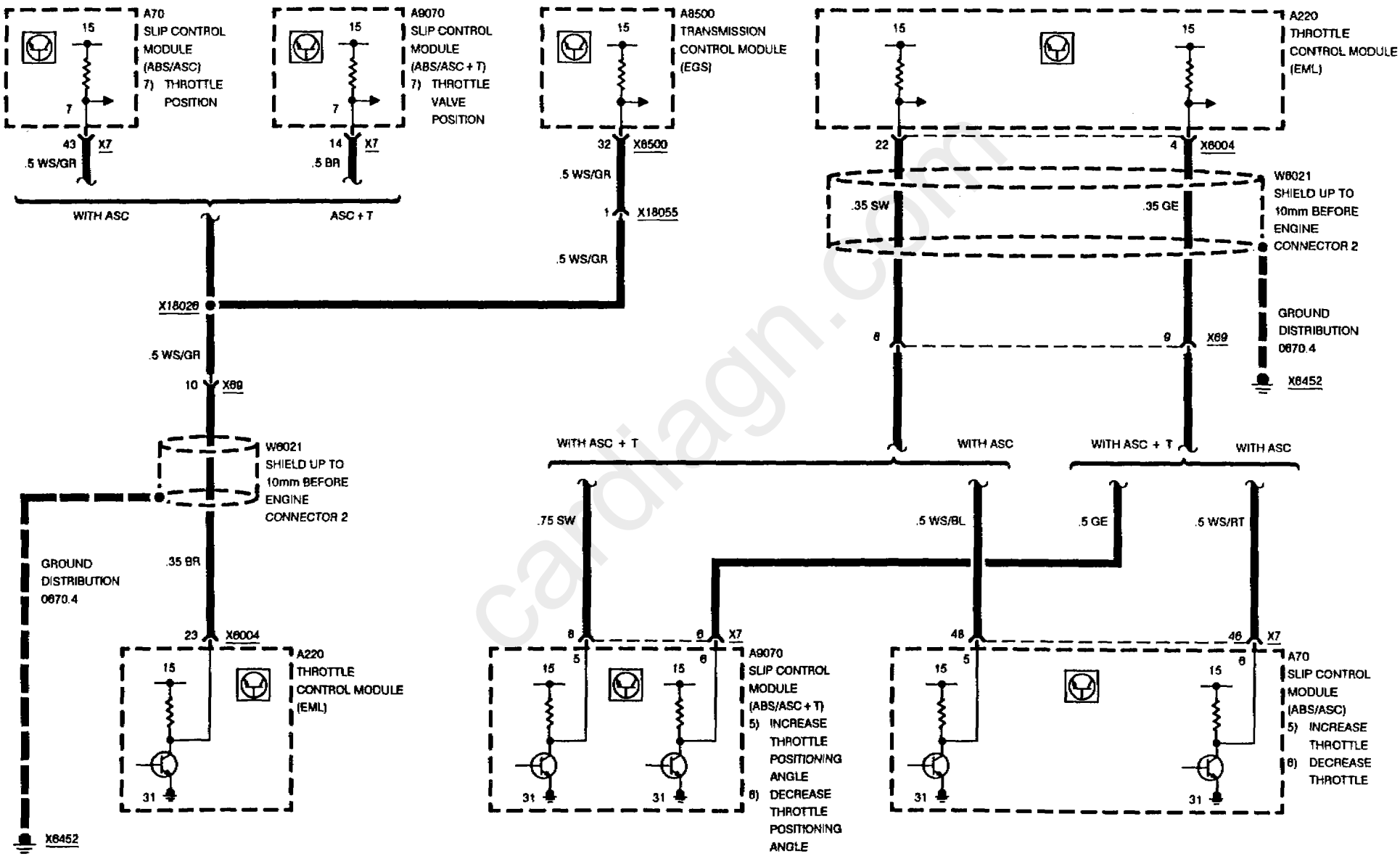
ELECTRONIC THROTTLE CONTROL (EML 12-CYLINDER)



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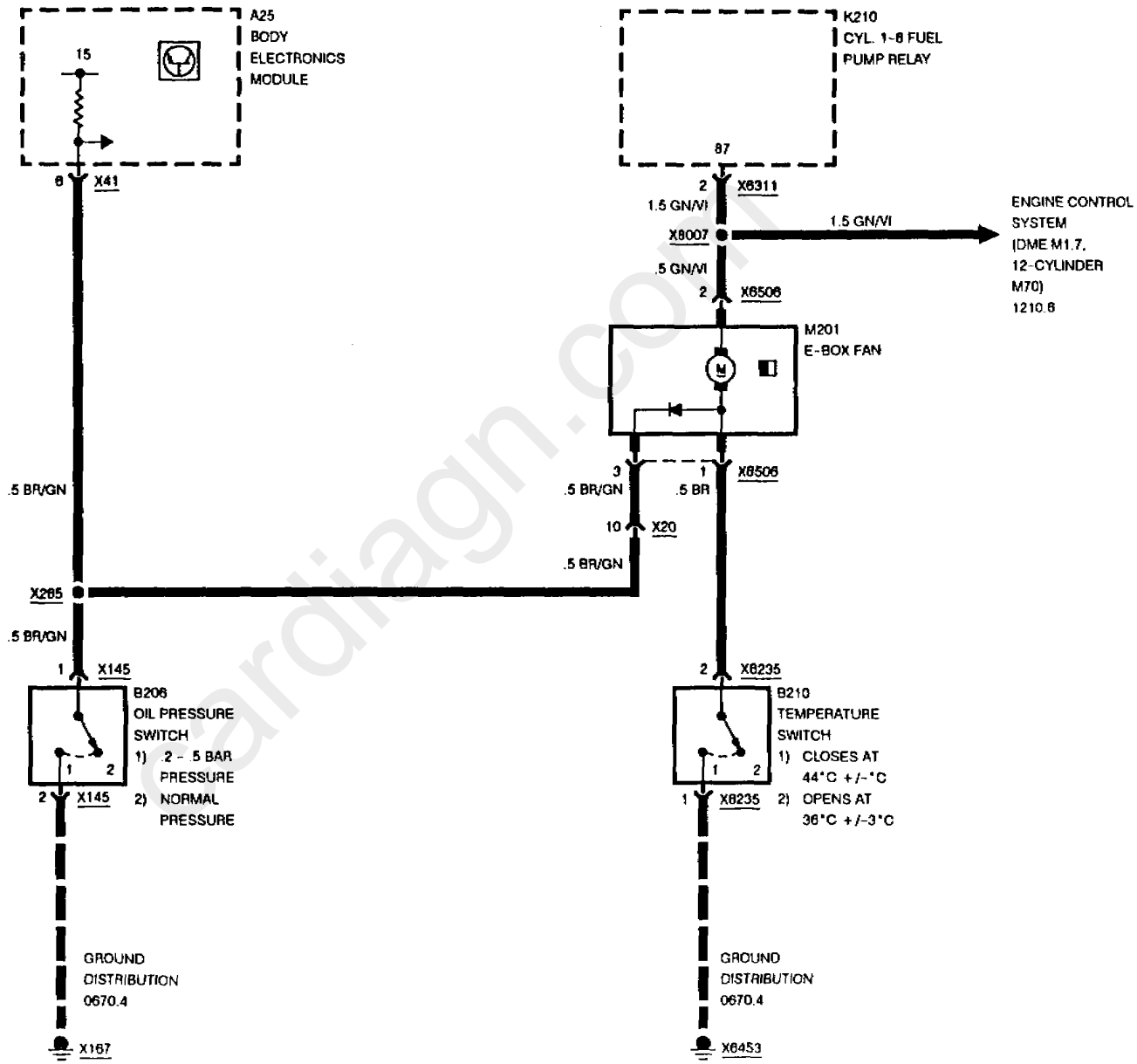
SLIP CONTROL INTERFACE



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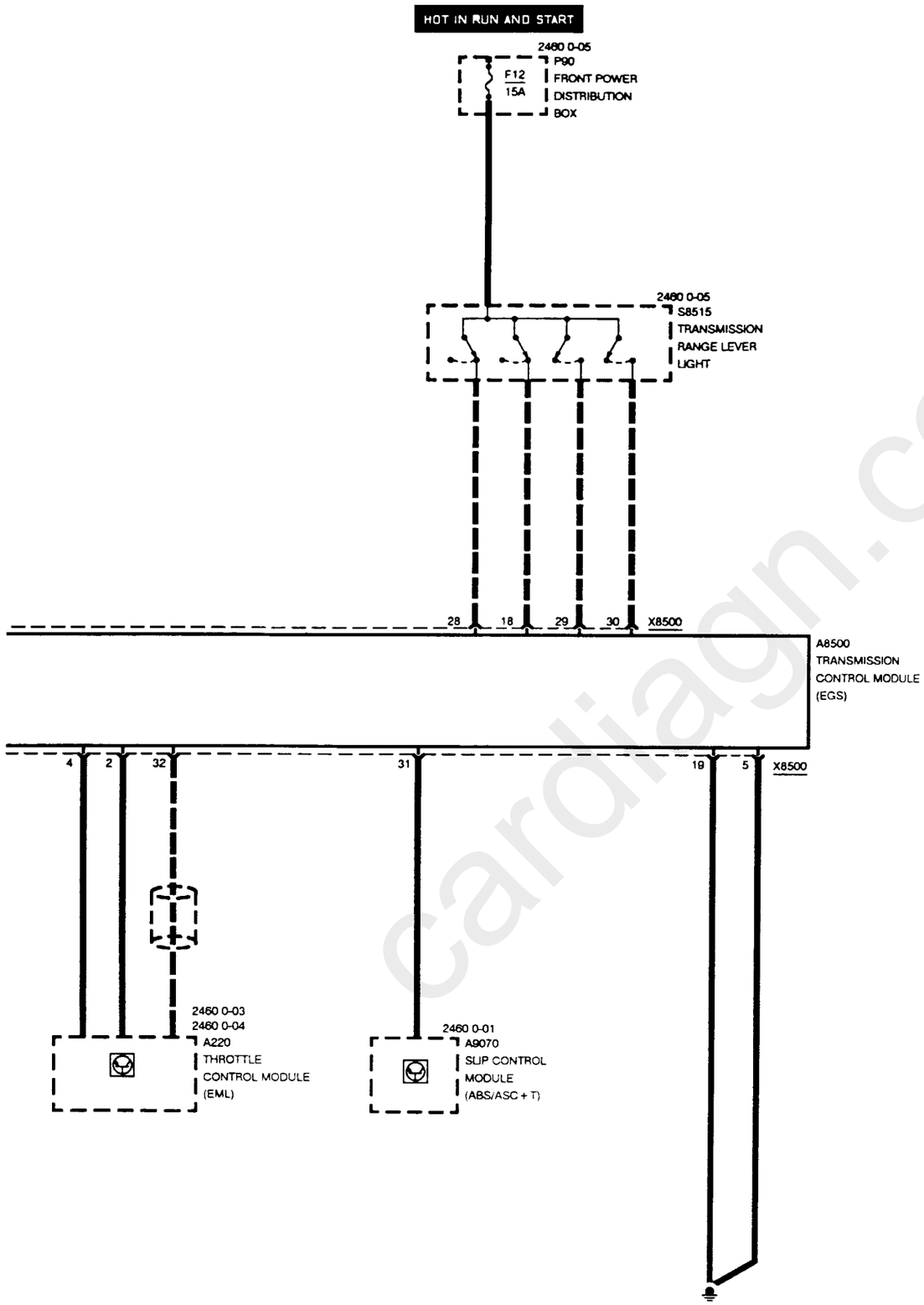
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E-BOX FAN



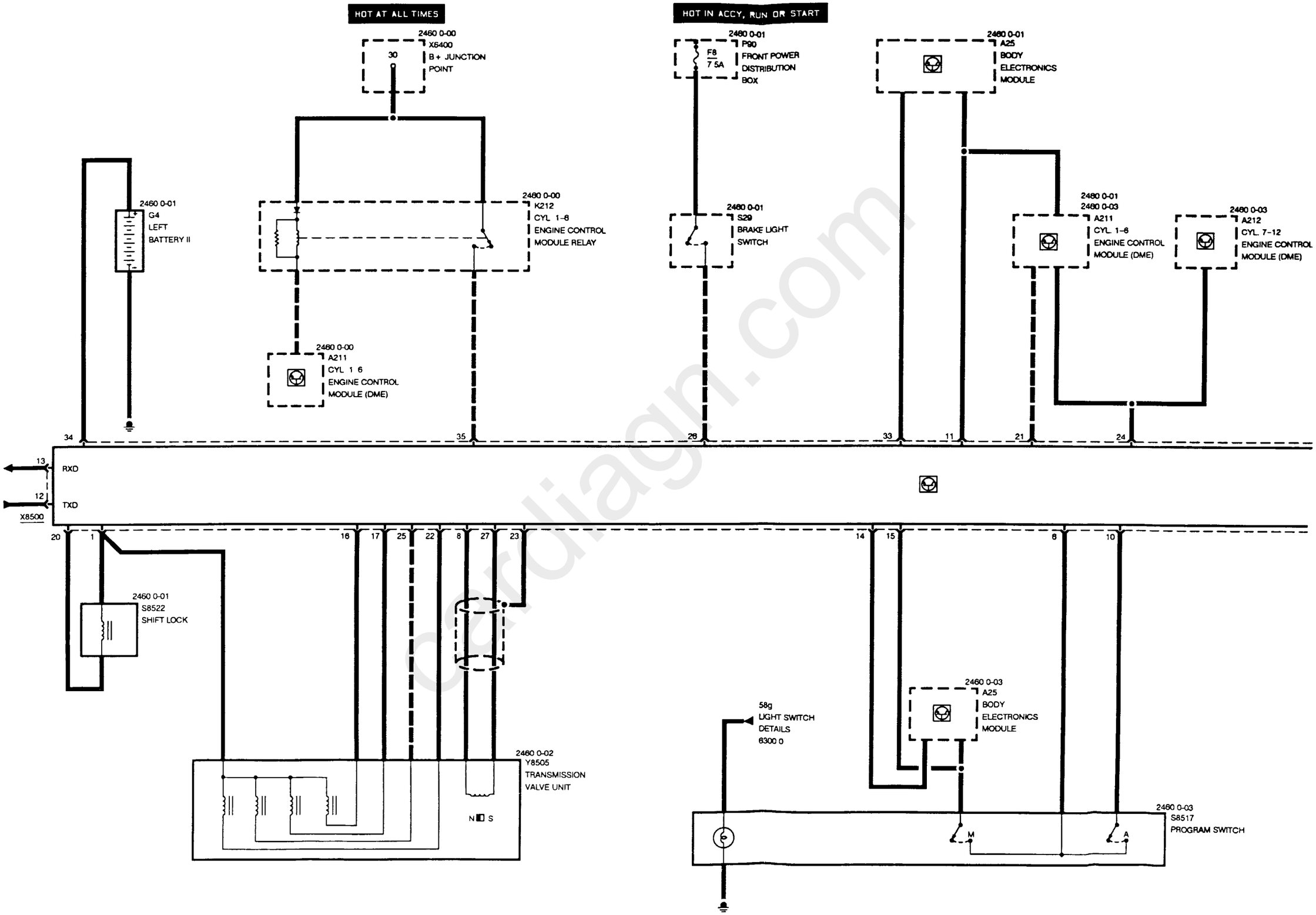
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Pin Assignments

X8500

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	A	Voltage supply, solenoid valves and pressure regulator	Gearshift unit	active high	Component activation	This supply is switched off during mechanical emergency program, i.e. transmission relay in control unit deenergizes.
2	E	Kick-Down	EML control unit	active low	Status display	
3		Not used				
4	E/A	S-program	EML control unit	active low	Status display	Only connection to EML in US version (GS 1.26, 1.27)
5	M	Ground, control unit				
6	M	Ground, program button	Program switch			
7		Not used				
8	E	Output speed n-ab (+)	Gearshift unit		Status display	
9		Not used				
10	E	A-program button	Program switch	active low	Status display	Only in GS 1.26, 1.27
11	E	ti signal	DME control unit 1, EKM		Status display	
12	E/A	TxD				
13	E	RxD				
14	E/A	E-program or A-program	EKM control unit			

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ELECTRONIC TRANSMISSION CONTROL (EGS)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
15	E/A	M–program	Program switch, instrument cluster	active low	Status display	
16	A	Solenoid valve 1	Gearshift unit	active low	Component activation	
17	A	Solenoid valve 2	Gearshift unit	active low	Component activation	
18	E	Position switch L1	Range switch	active high	Status display	
19	M	Terminal 31, ground pressure regulator and solenoid valves				
20	A	Unlock shift lever	Shift lock solenoid	active low	Component activation	Only in GS 1.22, 1.27
21	E	Engine speed n–mot (TR signal)			Status display	
22	A	Solenoid valve pressure regulator	Gearshift unit	Current control	Component activation	
23	M	Shield, speed sensor	Speed sensor shield	Ground		
24	A	Engine intervention	DME control units	active low	Component activation	
25	A	Solenoid valve, torque converter clutch	Gearshift unit	active low	Component activation	
26	E	Brake pedal position	Brake light switch	active high		Only in GS 1.22, 1.27
27	E	Output speed n–ab (–)	Gearshift unit		Status display	
28	E	Position switch L2	Range switch	active high	Status display	
29	E	Position switch L3	Range switch	active high	Status display	
30	E	Position switch L4	Range switch	active high	Status display	
31	E	ASC active	ABS/ASC + T control unit	active low		Only in GS 1.27
32	E	Throttle position	EML control unit	Pulse width–modulated	Status display	Correspond to accelerator pedal position
33	A	Fault display	Instrument cluster EKM	active high		

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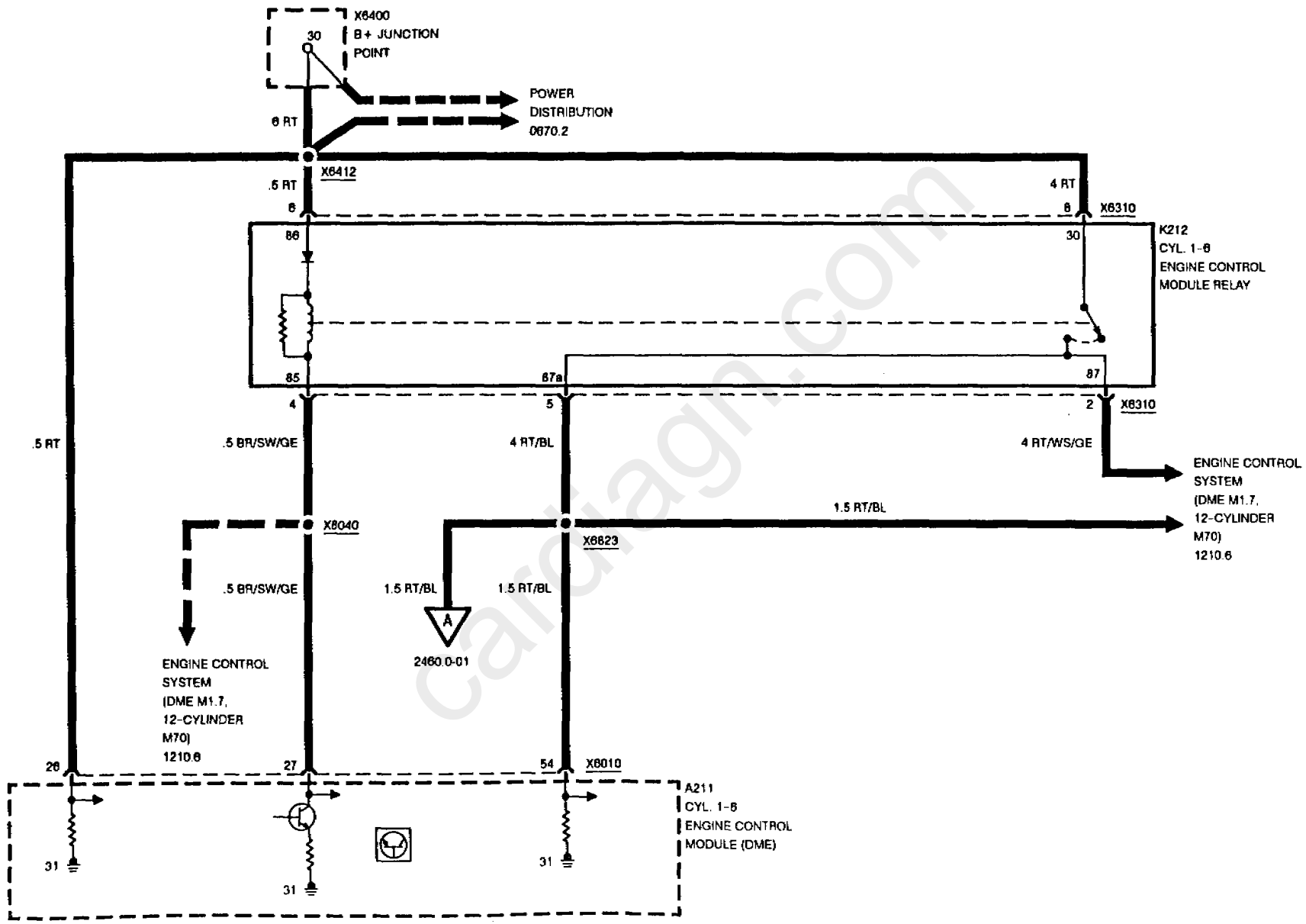
ELECTRONIC TRANSMISSION CONTROL (EGS)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
34	E	Voltage supply	Battery (+)			Continuous supply
35	E	Voltage supply	Main relay I			Holding circuit DME

E = Input, A = Output, M = Ground

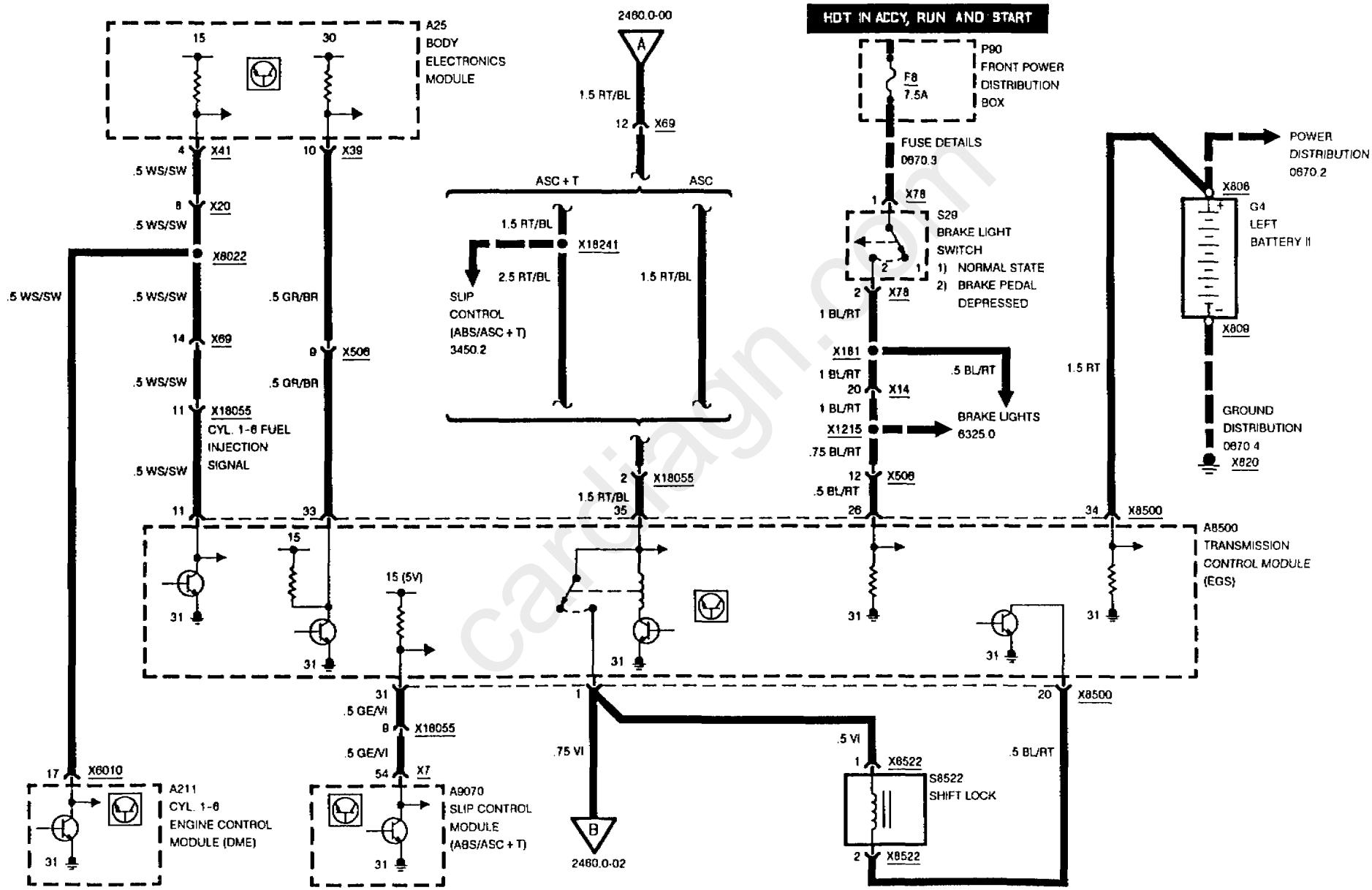
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ELECTRONIC TRANSMISSION CONTROL (EGS)



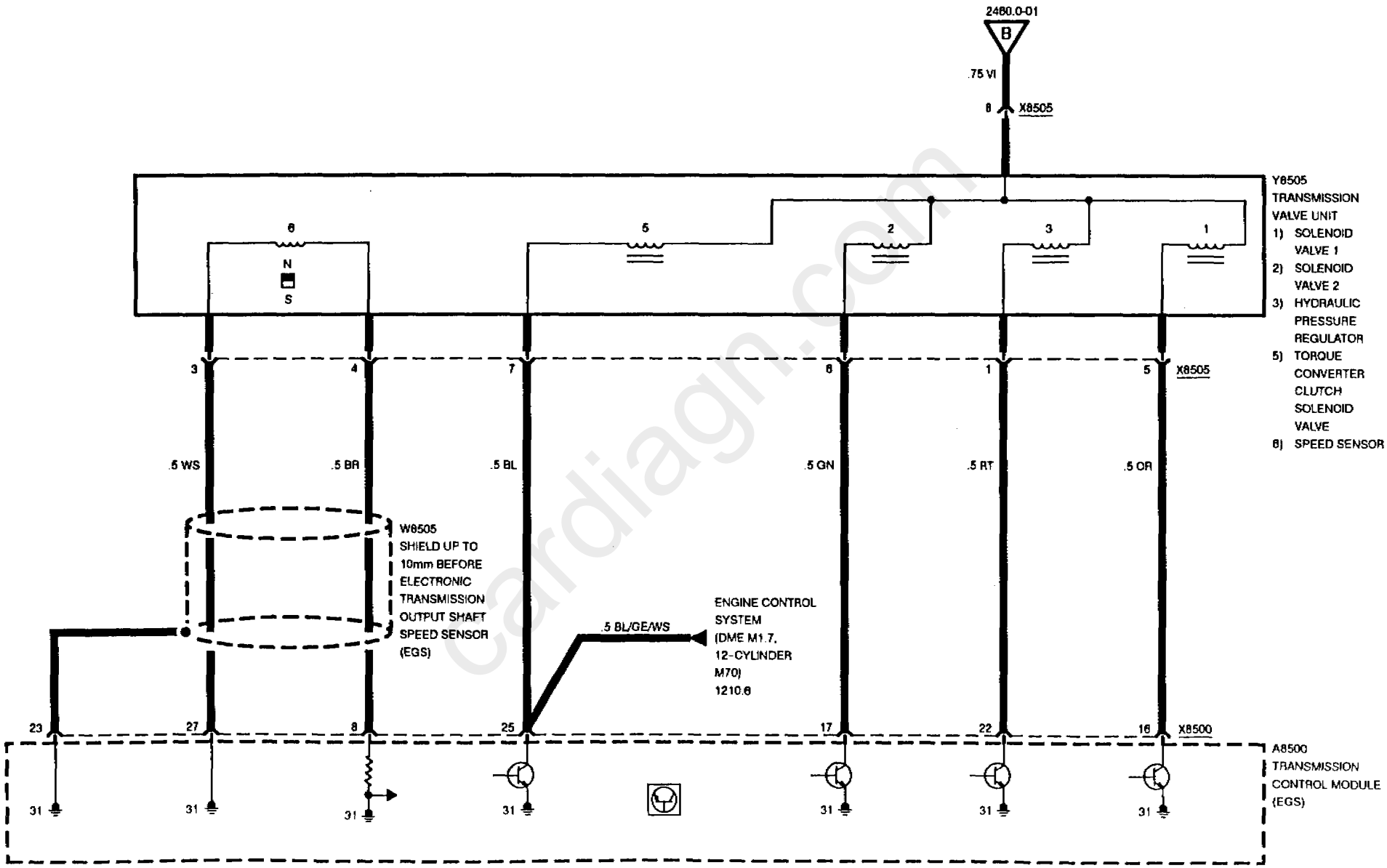
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ELECTRONIC TRANSMISSION CONTROL (EGS)



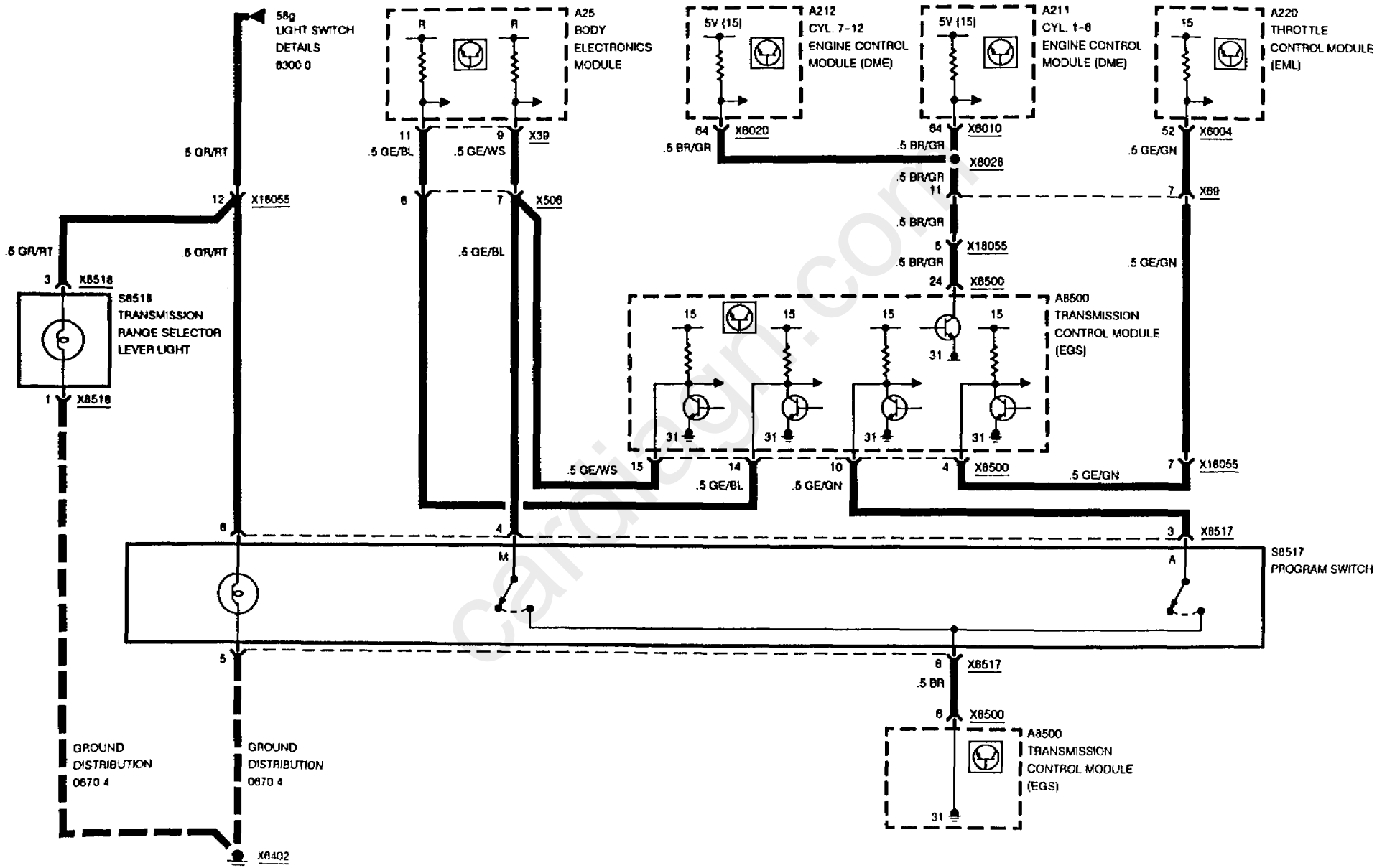
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ELECTRONIC TRANSMISSION CONTROL (EGS)



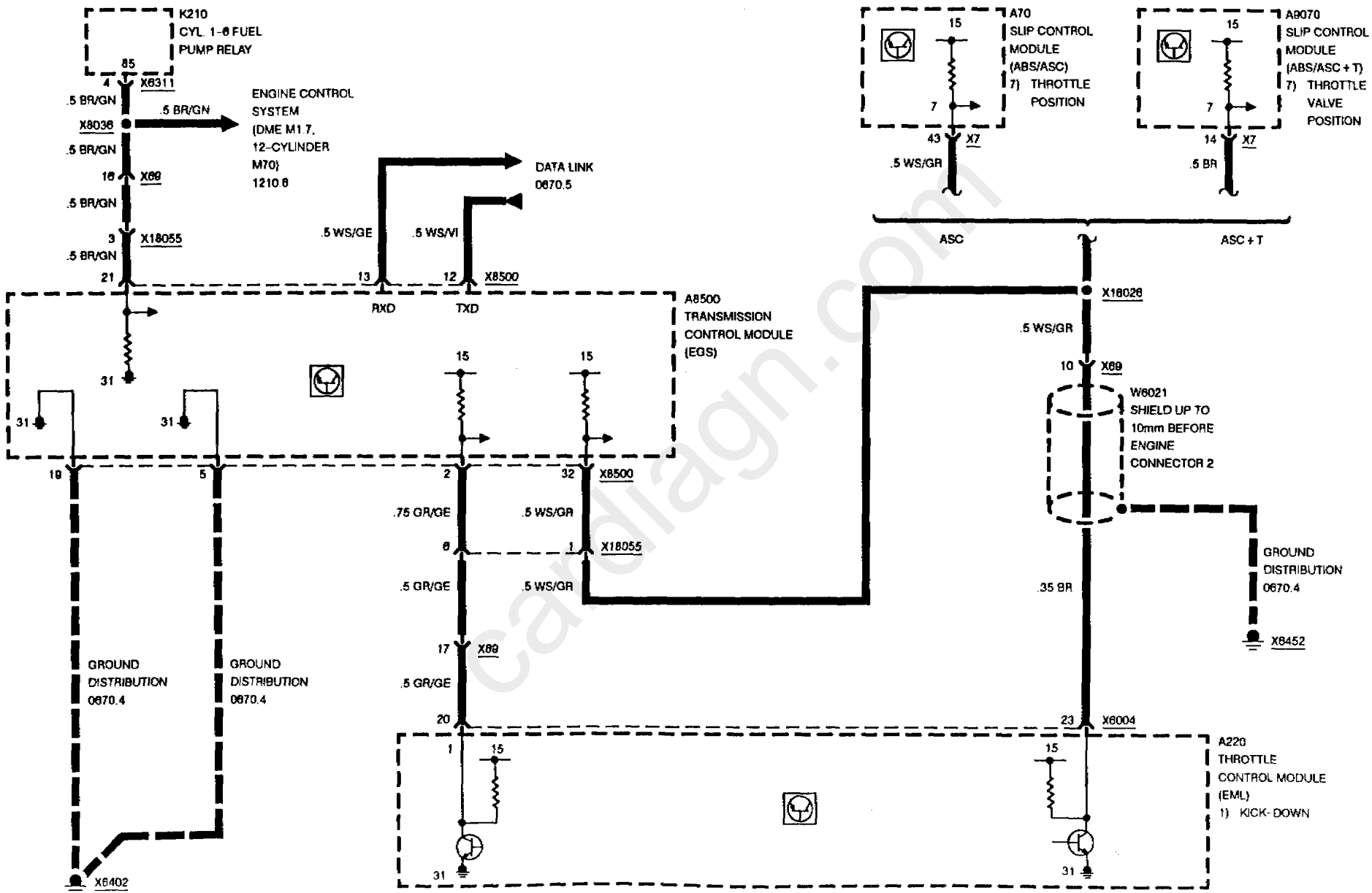
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ELECTRONIC TRANSMISSION CONTROL (EGS)



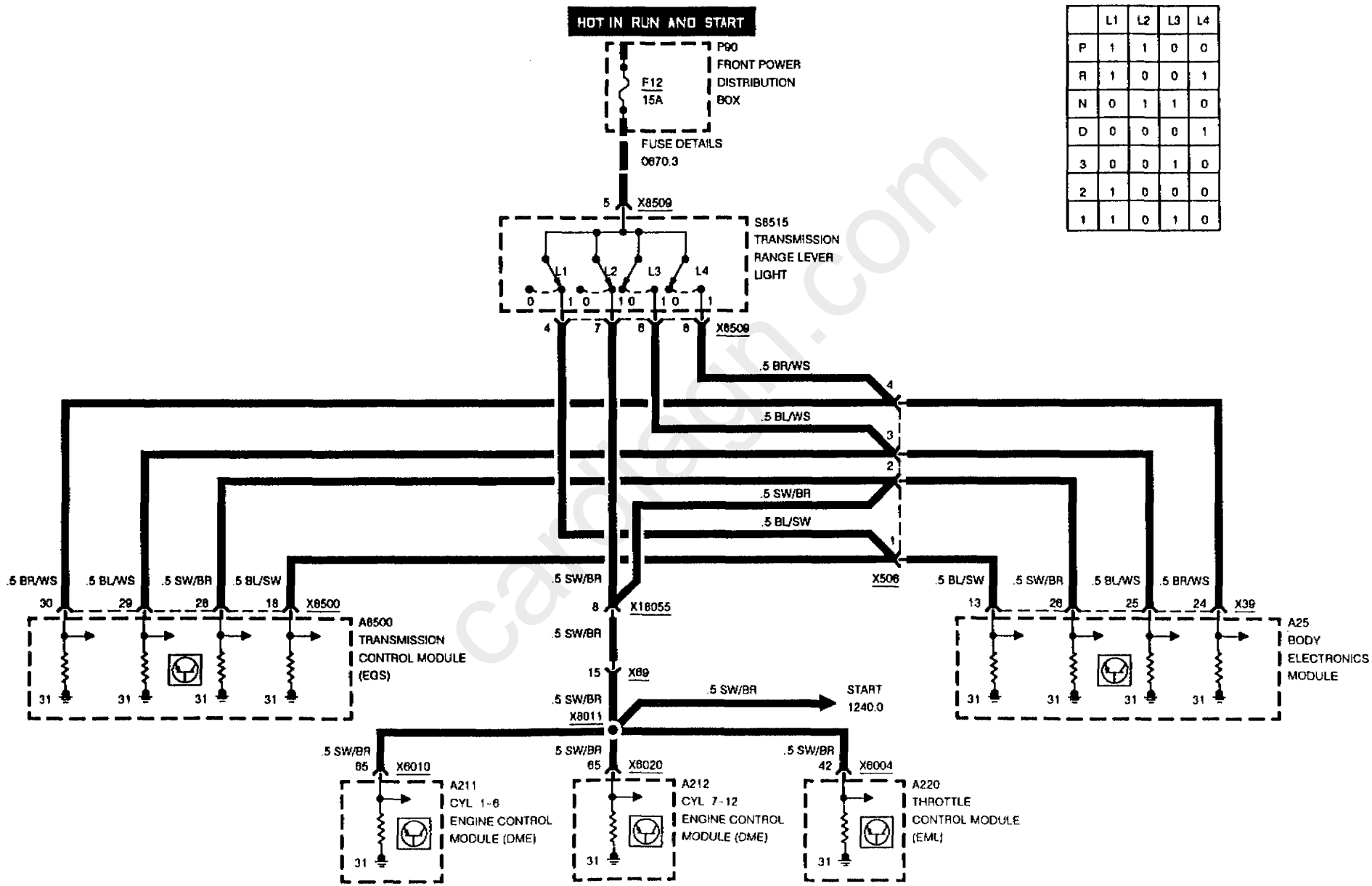
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ELECTRONIC TRANSMISSION CONTROL (EGS)



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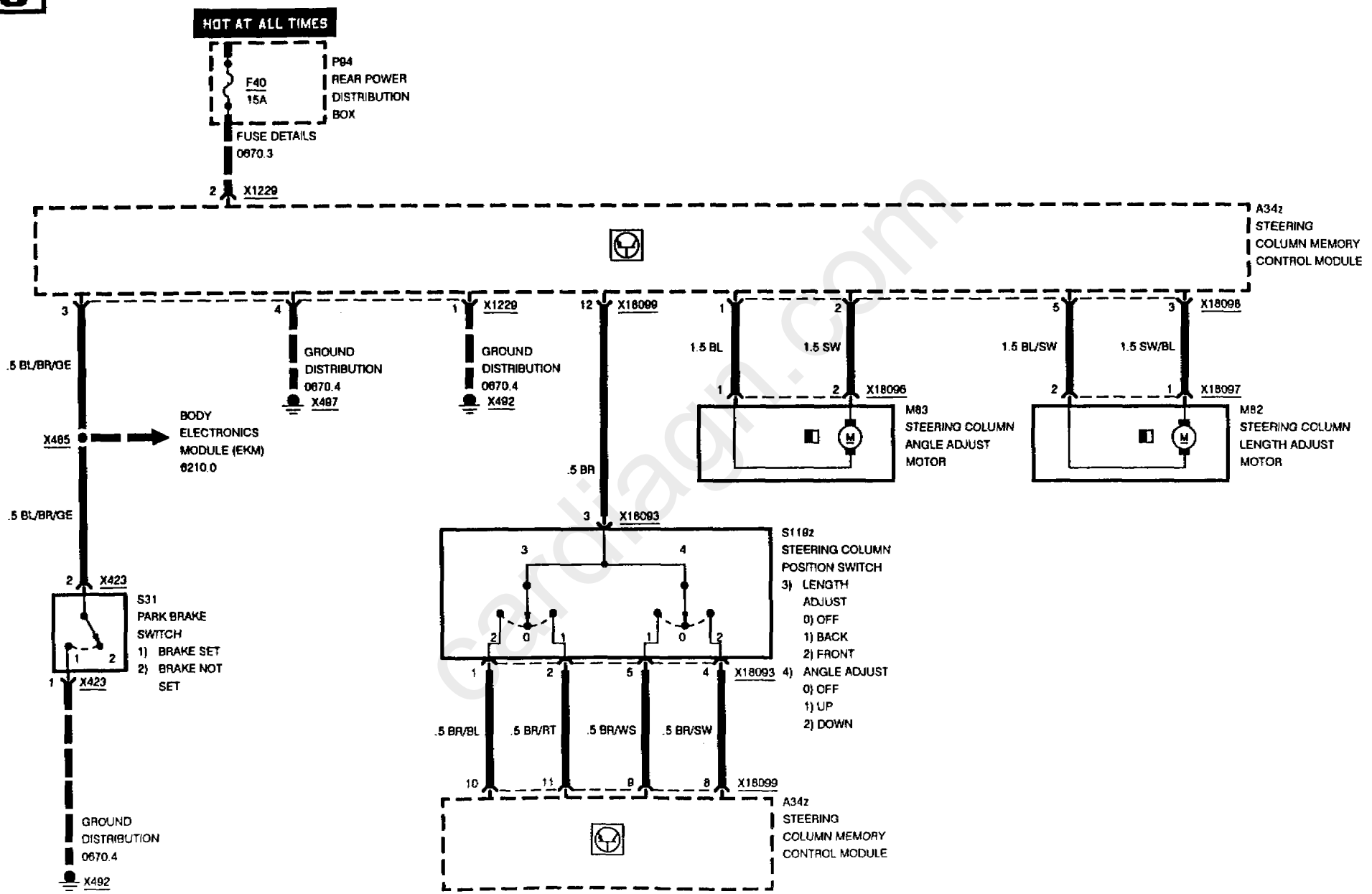
ELECTRONIC TRANSMISSION CONTROL (EGS)



	L1	L2	L3	L4
P	1	1	0	0
R	1	0	0	1
N	0	1	1	0
D	0	0	0	1
3	0	0	1	0
2	1	0	0	0
1	1	0	1	0

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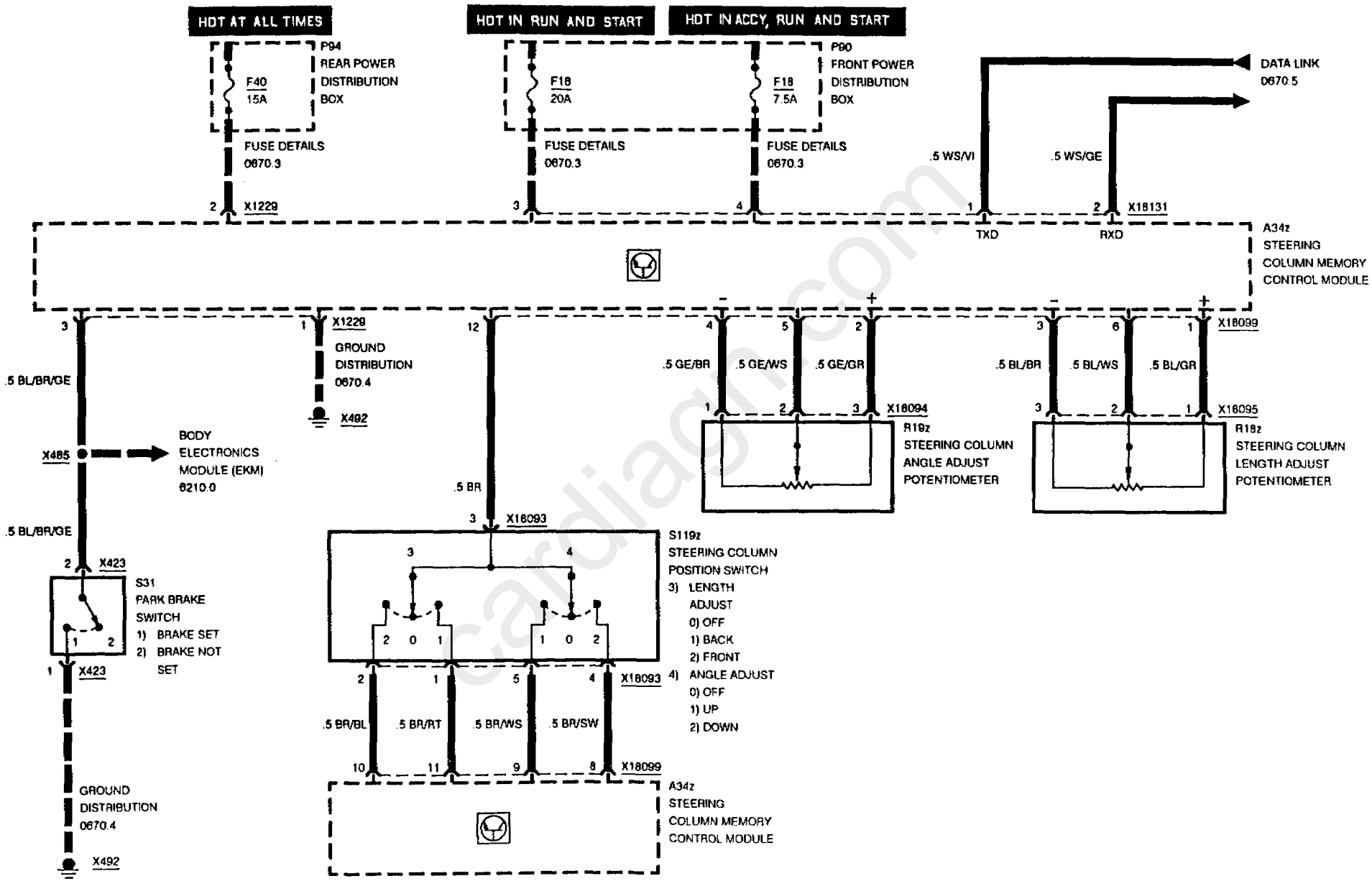
ELECTRIC STEERING COLUMN ADJUSTMENT



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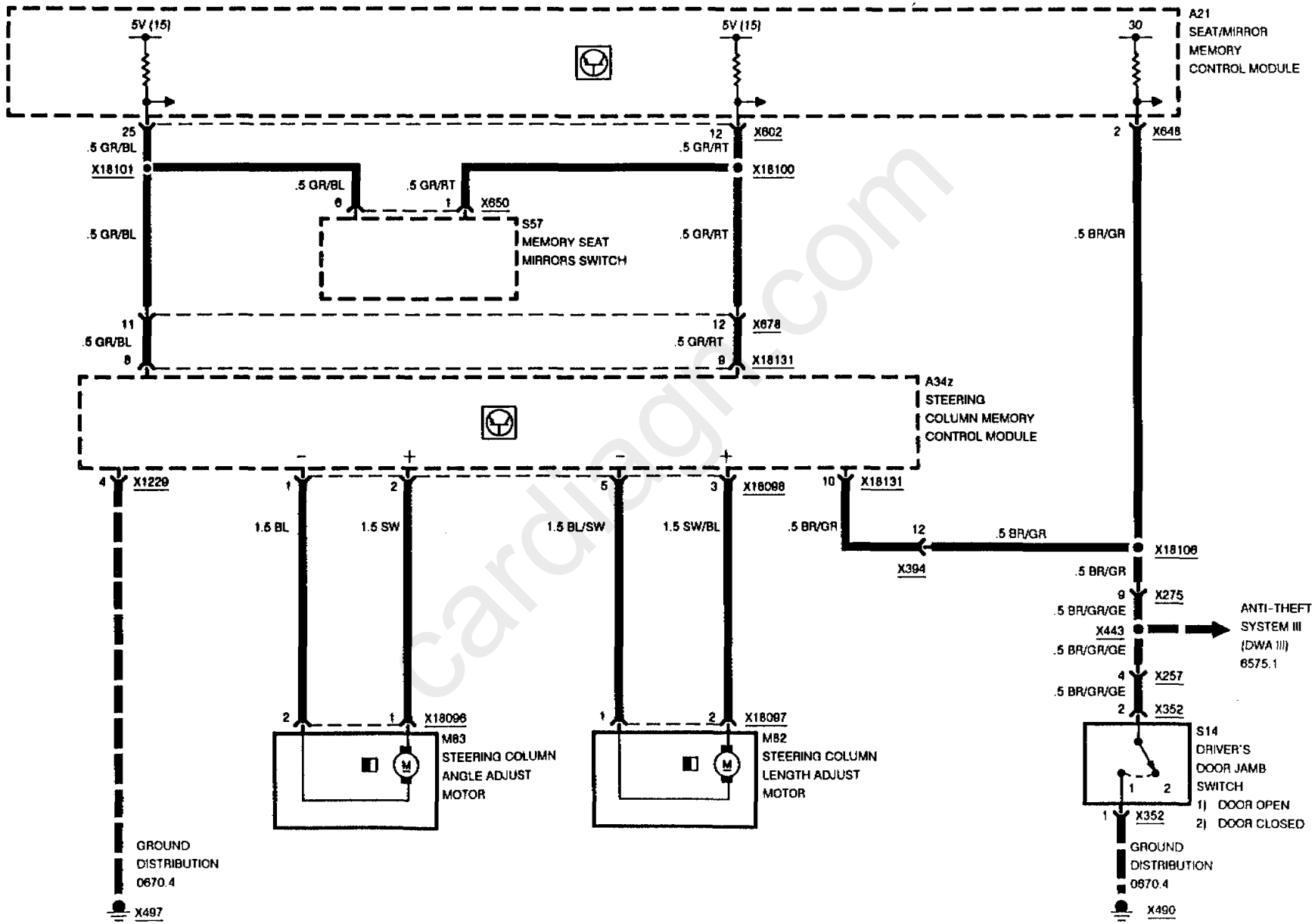
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STEERING COLUMN MEMORY (LSM)



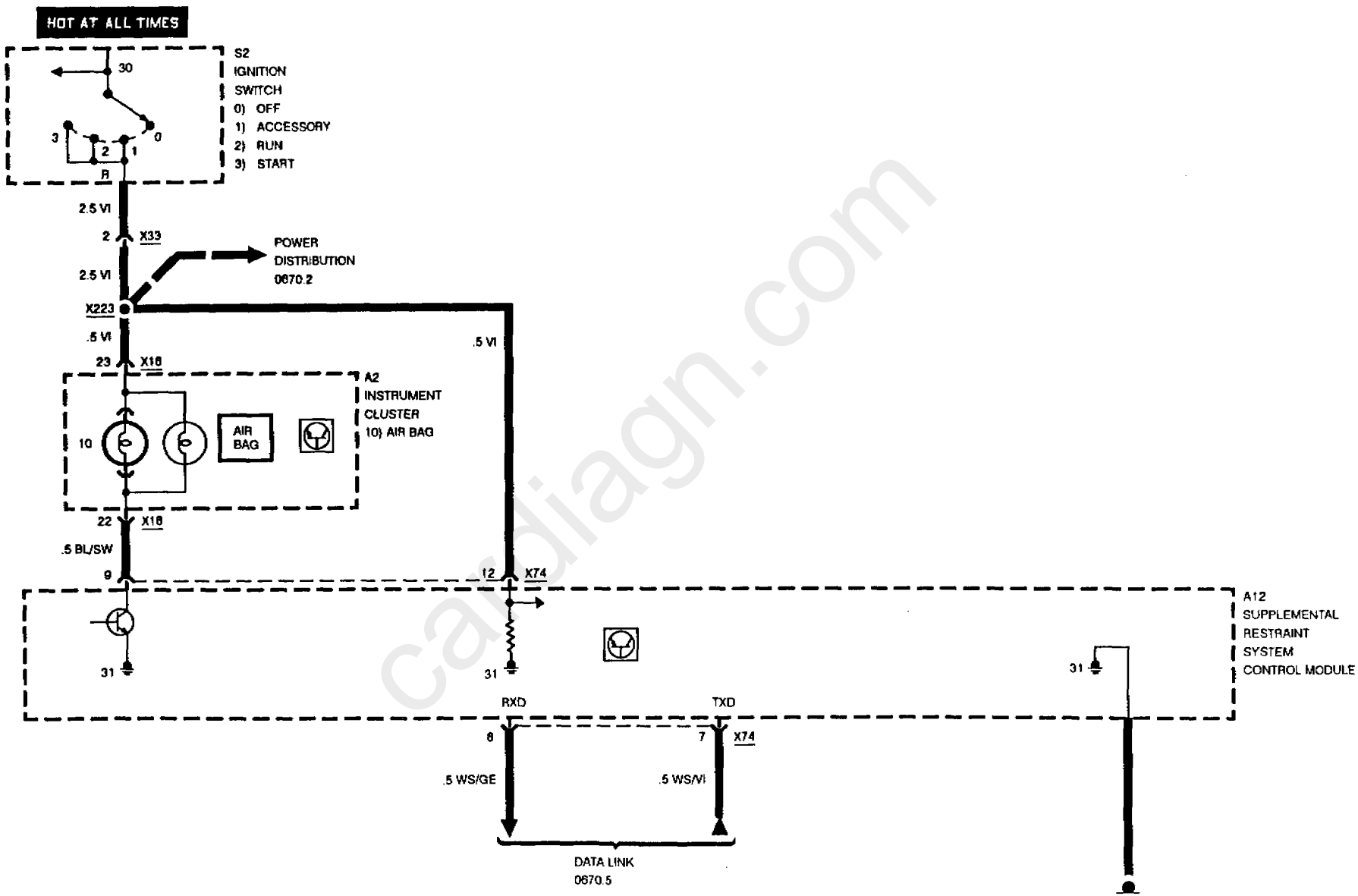
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STEERING COLUMN MEMORY (LSM)



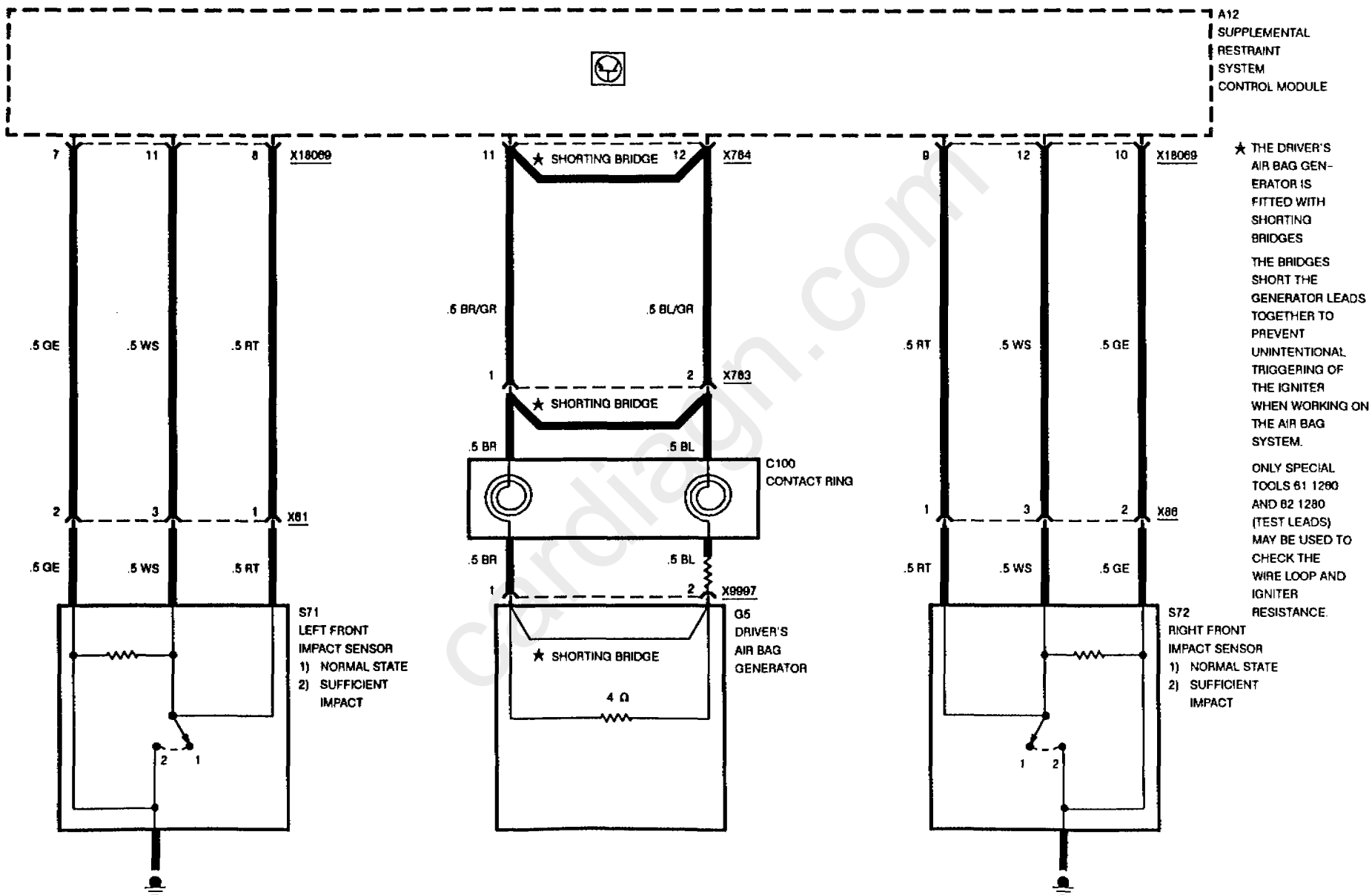
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SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)



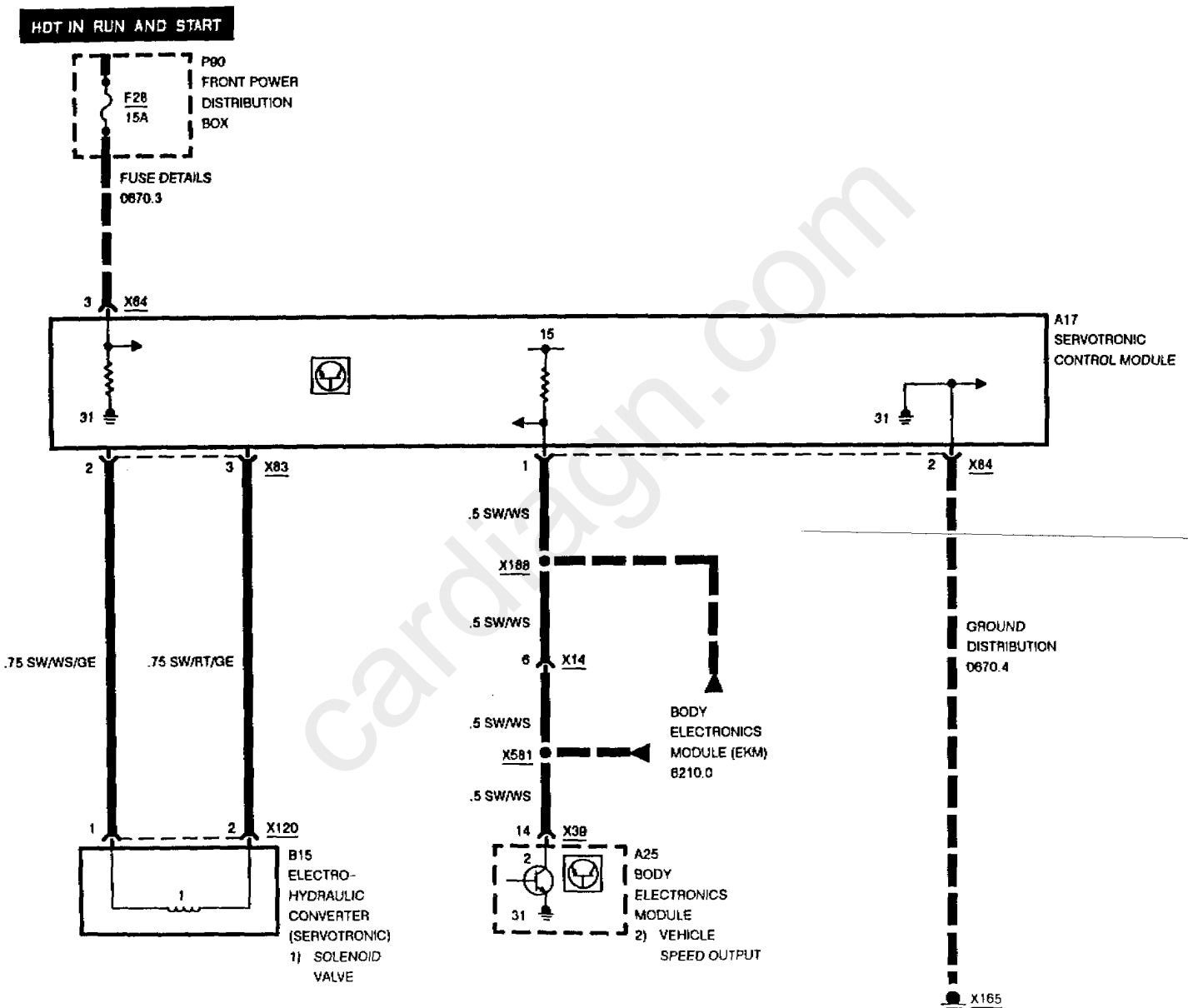
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SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG)



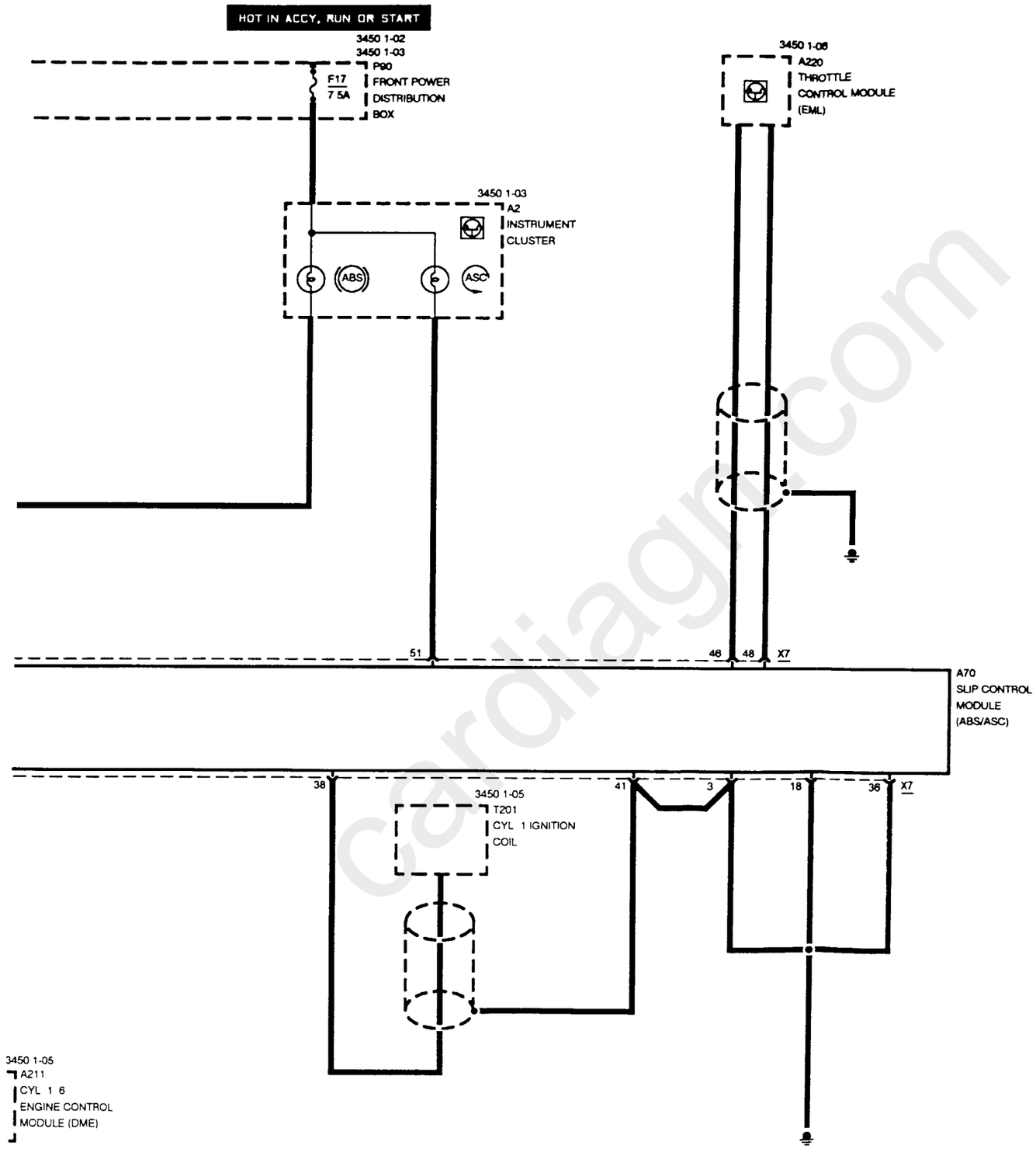
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POWER ASSIST STEERING (SERVOTRONIC)



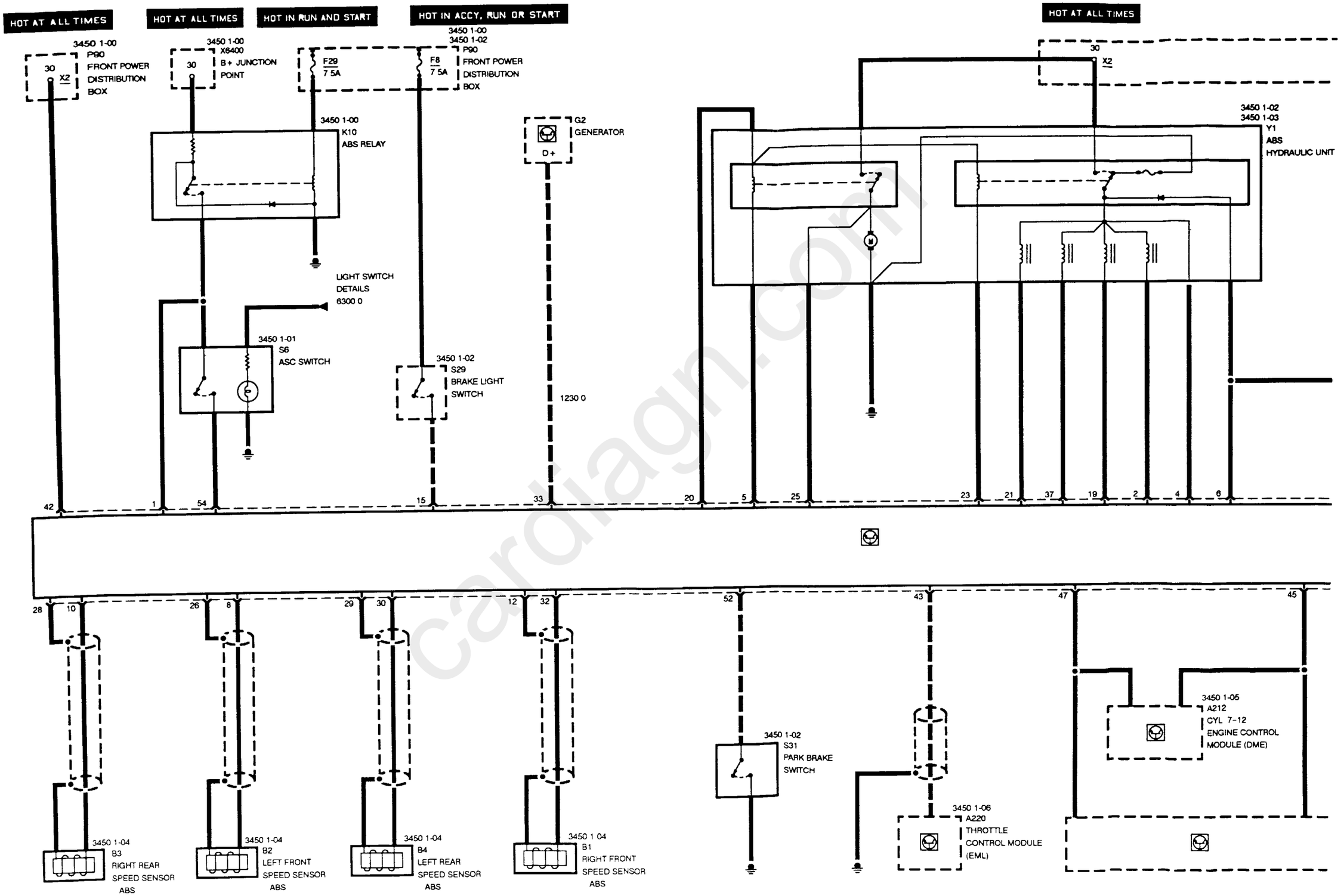
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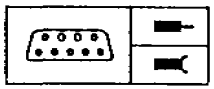


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Pin Assignments

X7

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	E	B+ (terminal 15)	Overvoltage protection relay	approx. 12 V		Ignition on
2	A	Rear right solenoid valve activation	ABS hydraulic unit	Ground		Cannot be measured statically
3	M	Control unit ground	Body ground	Ground		None
4	E	Voltage signal valve relay	Plunger/ABS hydraulic unit	approx. 12 V		Ignition on
5	A	Motor relay activation	ABS hydraulic unit	Ground		Canot be measured statically
6	E	Voltage signal ABS warning lamp	Instrument cluster	0 V/approx. 12 V		Ignition on/engine on
7		Not used				
8	E	Front left speed signal	Speed sensor	AC voltage		Cannot be measured statically
9		Not used				
10	E	Rear right speed signal	Speed sensor	AC voltage		Cannot be measured statically
11		Not used				
12	A	Front right speed sensor ground	Speed sensor	Ground		None
13		Not used				
14		Not used				

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SLIP CONTROL (ASC)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
15	E	Brake light switch signal	Brake light switch	approx. 0 V/12 V		Ignition on, brake released/applied
16		Not used				
17		Not used				
18	M	Control unit ground	Body ground	Ground		None
19	A	Rear left solenoid valve activation	Plunger hydraulic unit	Ground		Cannot be measured statically
20	A	Voltage signal, pump relay	ABS hydraulic unit	approx. 12 V		None
21	A	Front left solenoid valve activation	Plunger hydraulic unit	Ground		Cannot be measured statically
22		Not used				
23	A	Activation, valve relay	ABS hydraulic unit	approx. 0 V		Ignition on
24		Not used				
25	E	Pump relay signal	ABS hydraulic unit	approx. 12 V		Cannot be measured statically
26	A	Front left speed sensor ground	Speed sensor	Ground		None
27		Not used				
28	A	Rear right speed sensor ground	Speed sensor	Ground		None
29	A	Rear left speed sensor ground	Speed sensor	Ground		None
30	E	Rear left speed signal	Speed sensor	AC voltage		Cannot be measured statically
31		Not used				
32	E	Front right speed signal	Speed sensor	AC voltage		Cannot be measured statically

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SLIP CONTROL (ASC)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
33	E	Terminal 61d D+	Alternator	> 12 V		Engine on
34		Not used				
35		Not used				
36	M	Control unit ground	Body ground	Ground		None
37	A	Front right solenoid valve activation	Plunger hydraulic unit	Ground		Cannot be measured statically
38	E	Terminal 1 – signal	DME control unit	approx. 12 V		Ignition on
39		Not used				
40		Not used				
41	E	Ground signal, terminal 1 – shielding	Shielded line terminal 1	Ground		None
42	E	B+ (terminal 30)	Battery	approx. 12 V		None
43	E	Throttle position signal	EML control unit	Pulse width–modulated square–wave signal		Cannot be measured statically
44		Not used				
45	A	Signal, ignition fade–out (ZA)	DME control units	9,6...15 V		Cannot be measured statically
46	A	Throttle increase signal	EML control unit	Pulse width–modulated square–wave signal		Cannot be measured statically
47	A	Ignition timing signal	DME control units	approx. 12 V		Cannot be measured statically
48	A	Throttle increase signal	EML control unit	Pulse width–modulated square–wave signal		Cannot be measured statically

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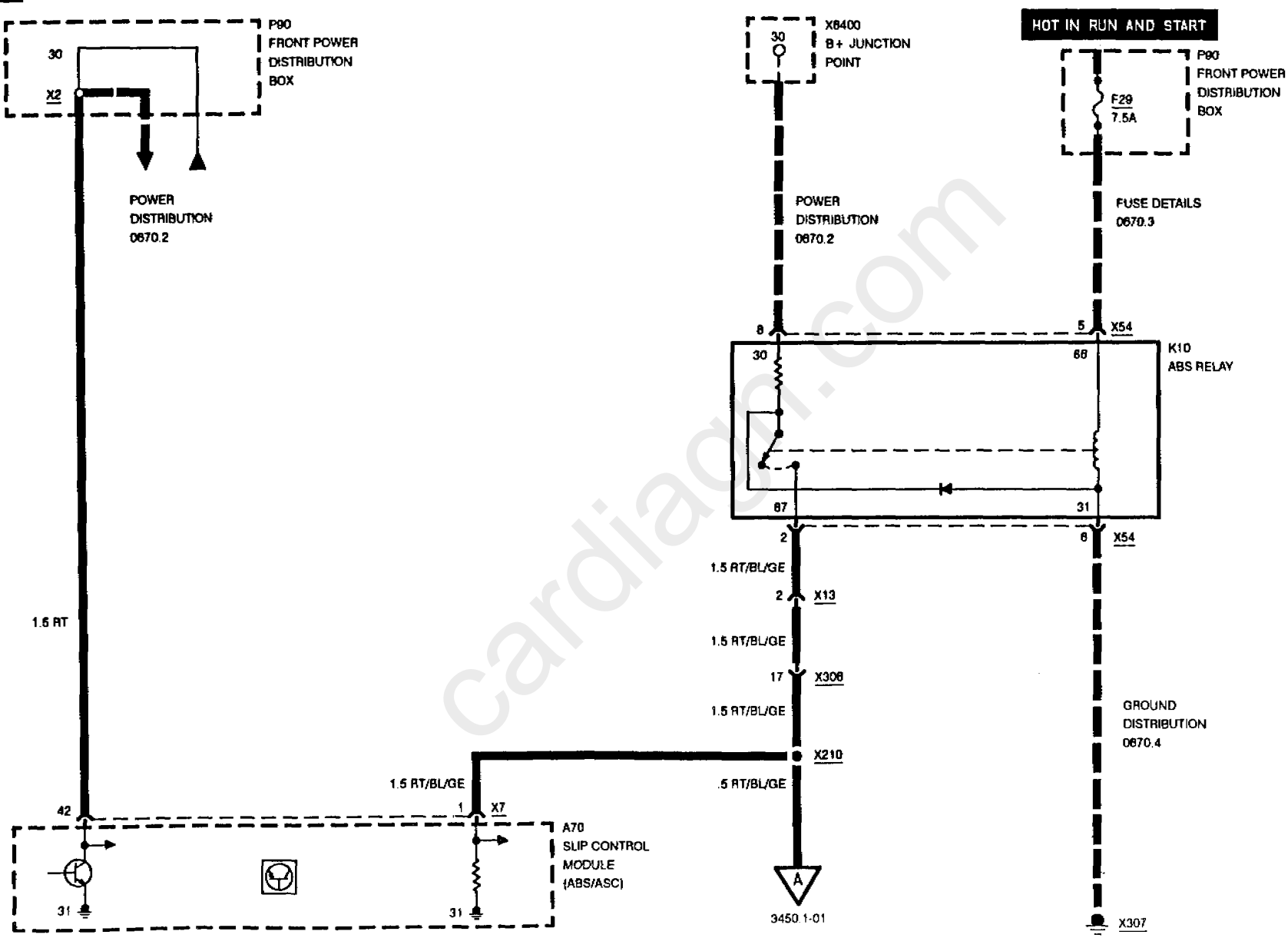
Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
49		Not used				
50		Not used				
51	A	Activation, ASC multi–function lamp	Instrument cluster	0 V/approx. 12 V		Ignition on/engine and ASC on
52	E	Park brake switch signal	Park brake switch	> 7 V/approx. 0 V		Ignition on, handbrake released/applied
53		Not used				
54	E	ASC switch signal	ASC switch	approx. 0 V/ approx. 12 V		Ignition on/ ASC button depressed
55		Not used				

E = Input, A = Output, M = Ground

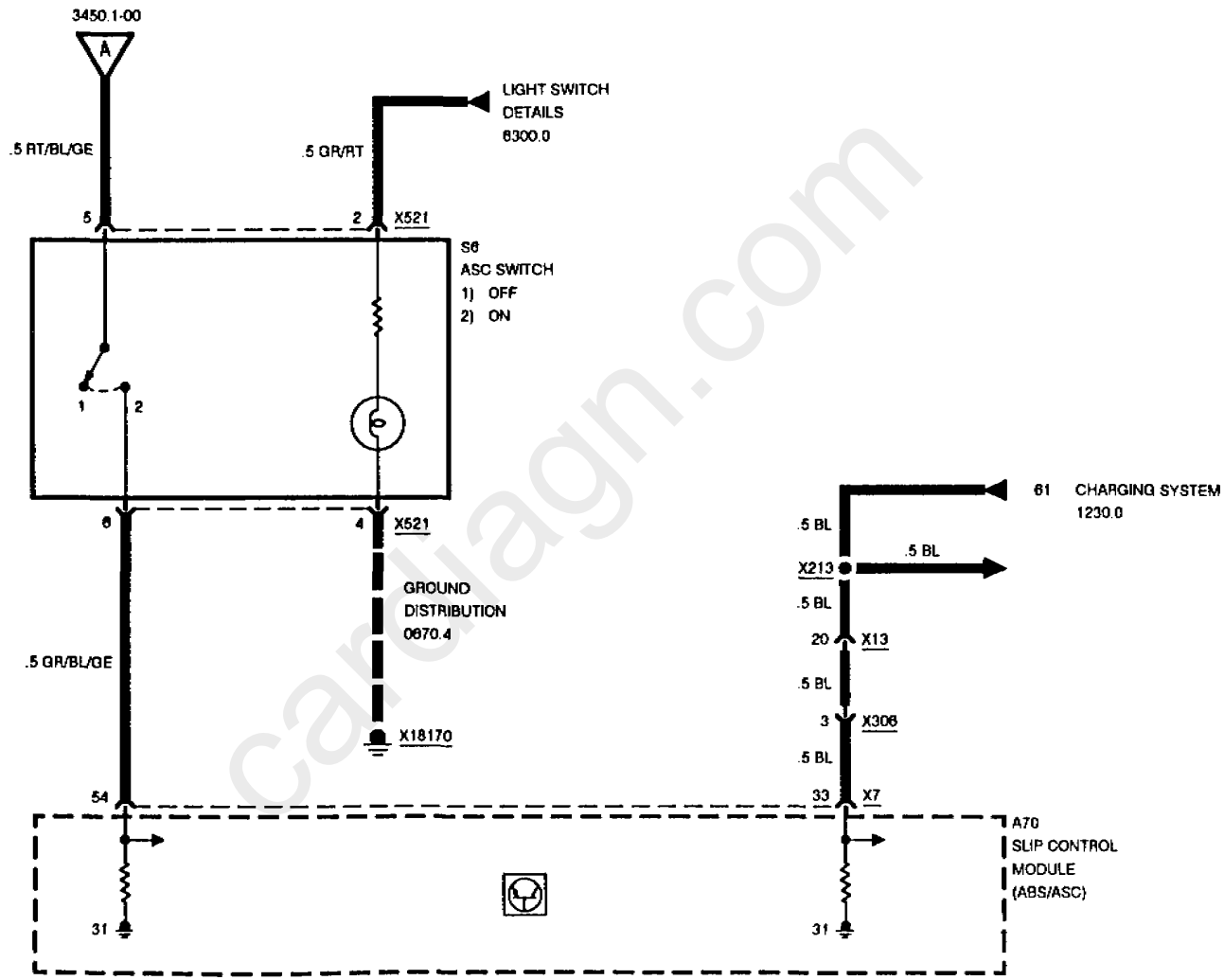
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SLIP CONTROL (ABS/ASC)

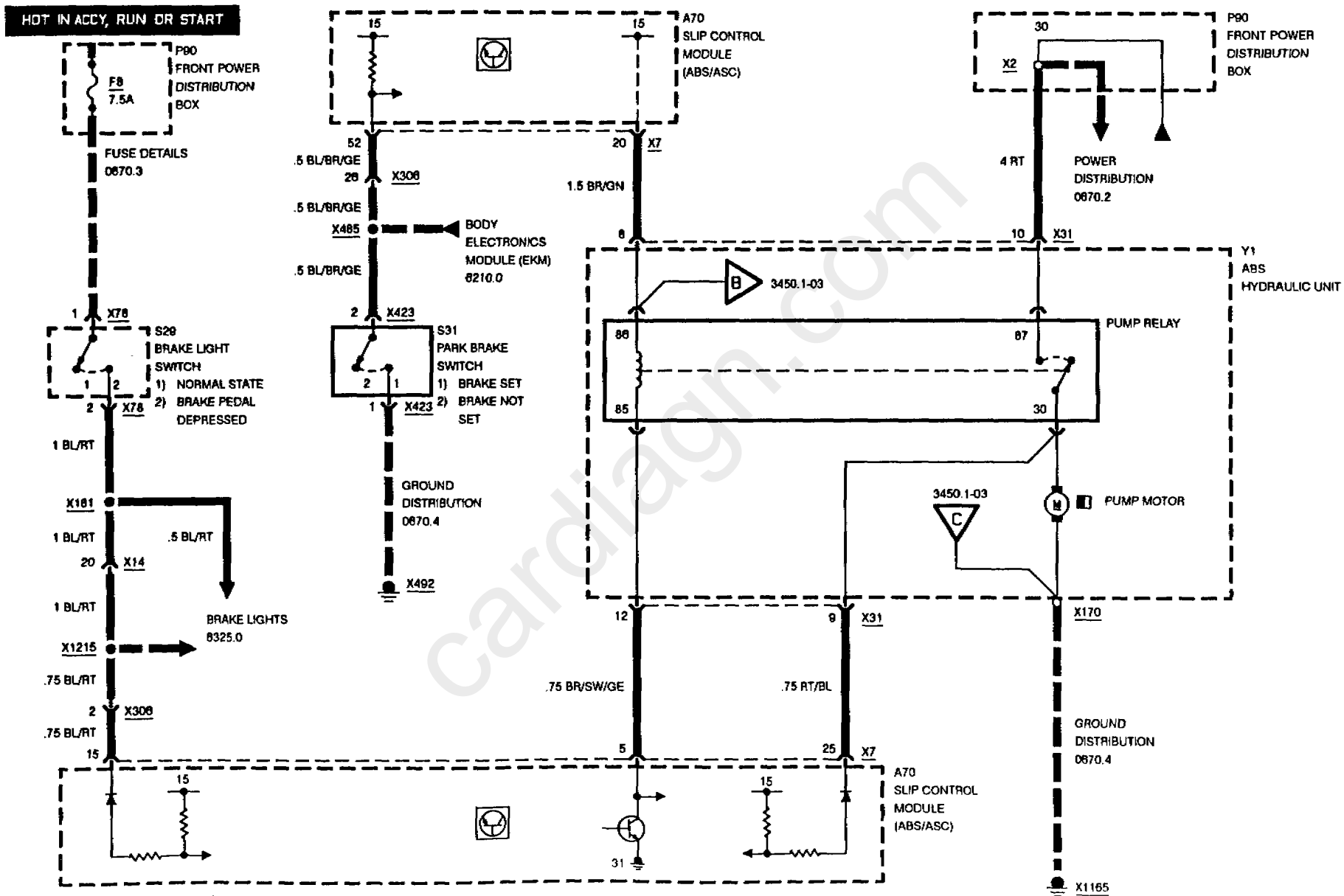


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3450.1-00
A
.5 RT/BL/GE
.5 GR/RT
LIGHT SWITCH
DETAILS
6300.0
5
2
X521
S6
ASC SWITCH
1) OFF
2) ON
1
2
6
4
X521
GROUND
DISTRIBUTION
0670.4
.5 GR/BL/GE
X18170
54
31
61 CHARGING SYSTEM
1230.0
.5 BL
.5 BL
X213
.5 BL
20
X13
.5 BL
3
X306
.5 BL
33
X7
31
A70
SLIP CONTROL
MODULE
(ABS/ASC)

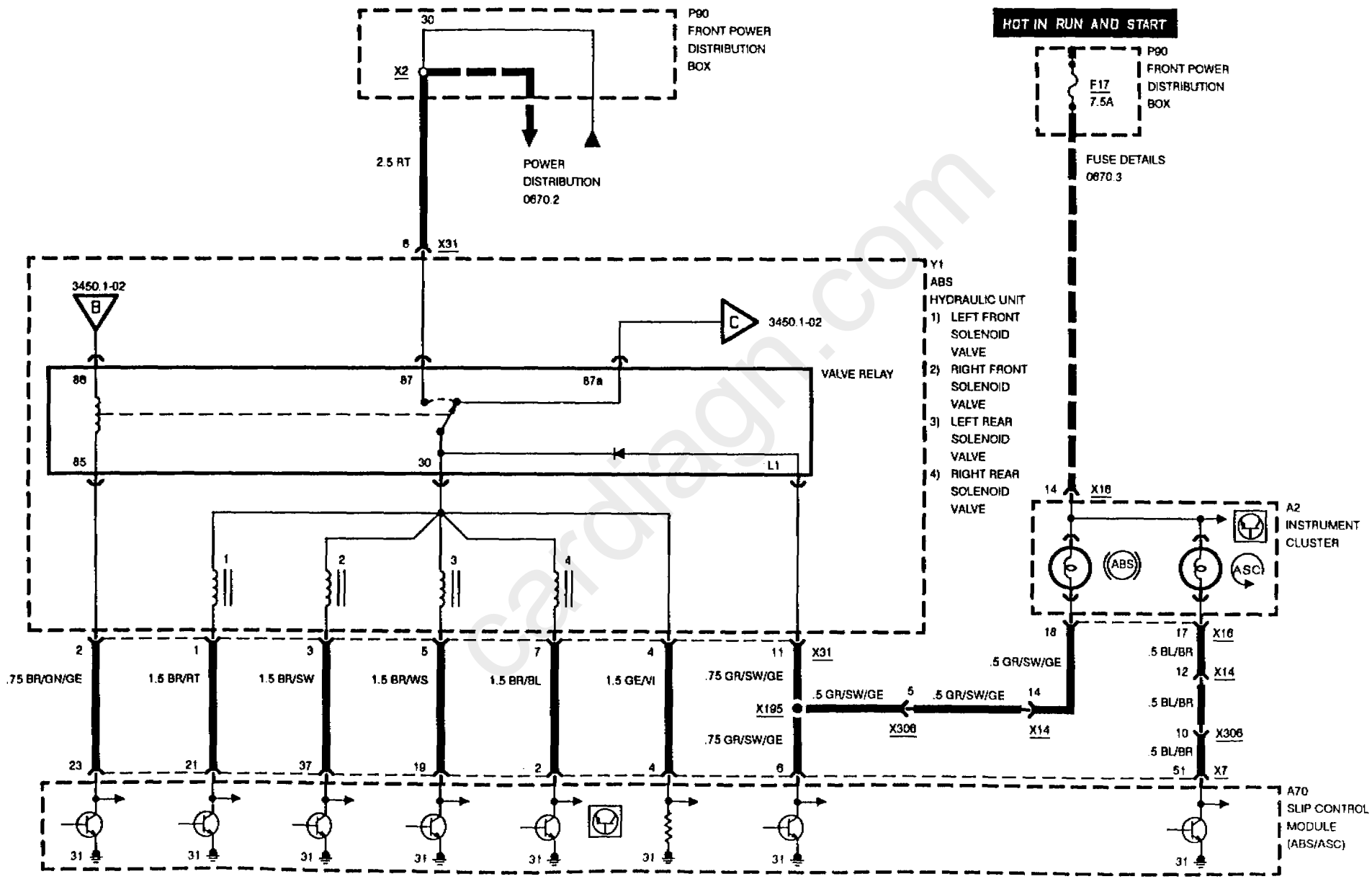
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SLIP CONTROL (ABS/ASC)

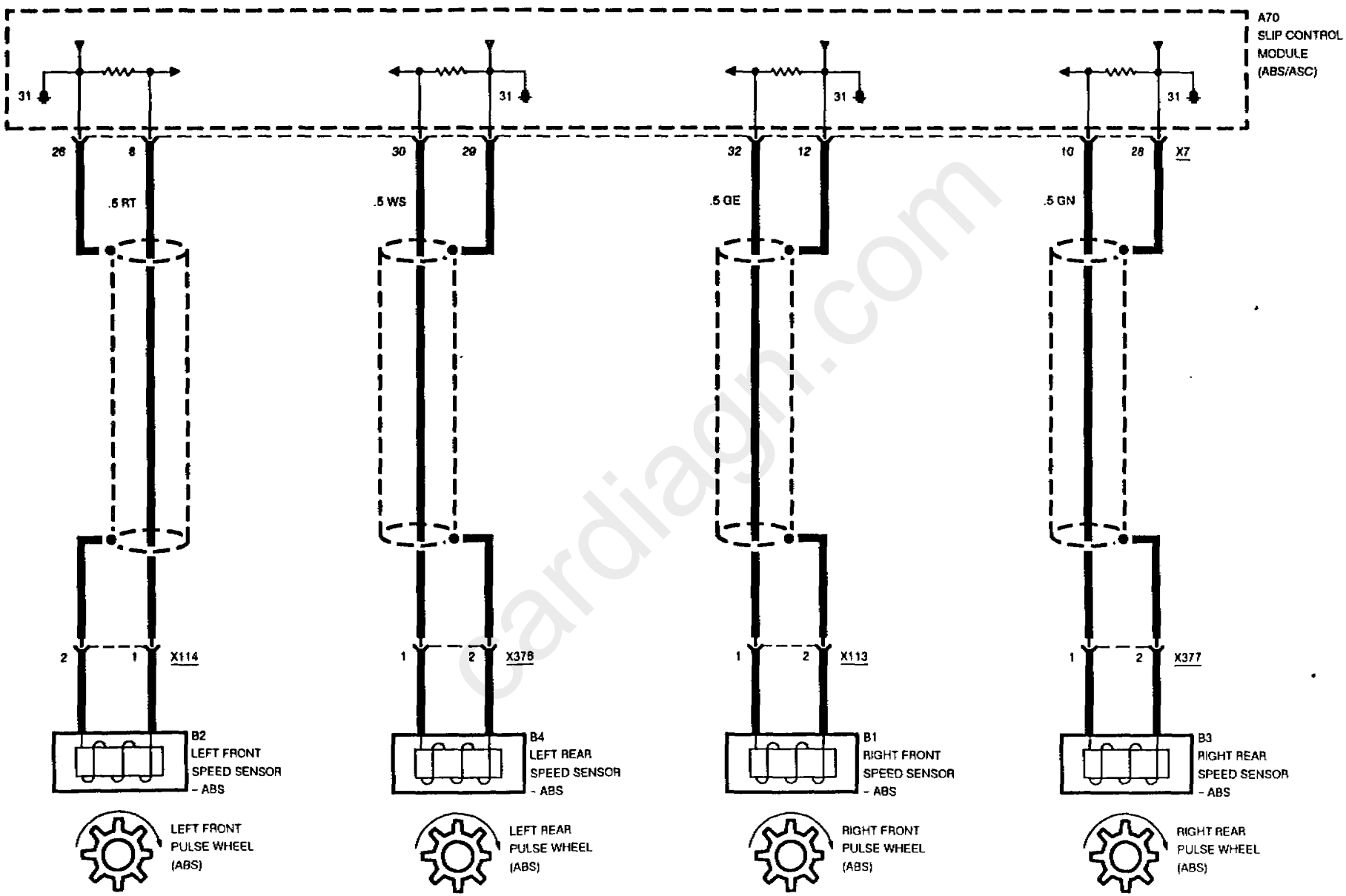


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SLIP CONTROL (ABS/ASC)



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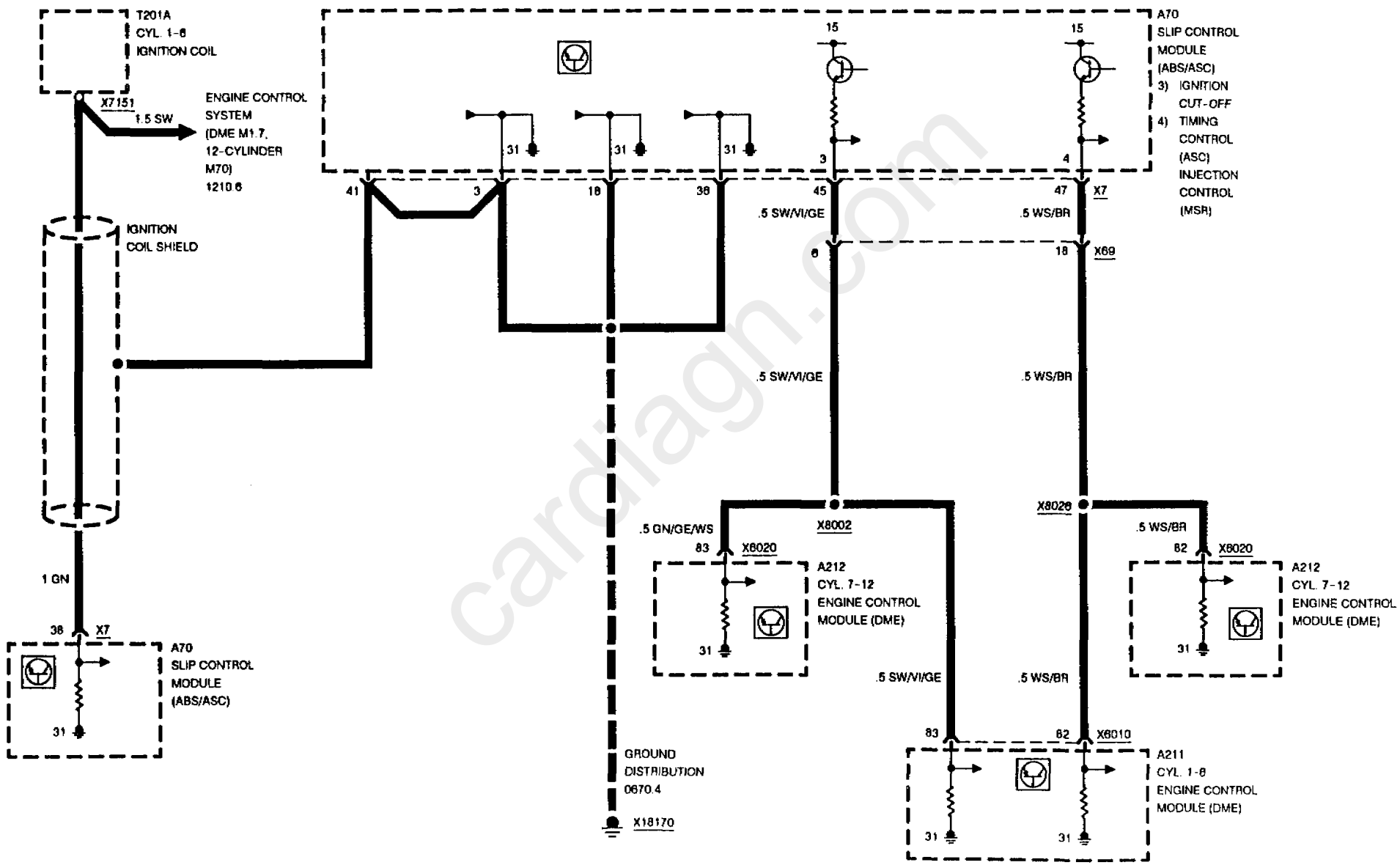


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SLIP CONTROL (ABS/ASC)

ENGINE CONTROL (DME) INTERFACE

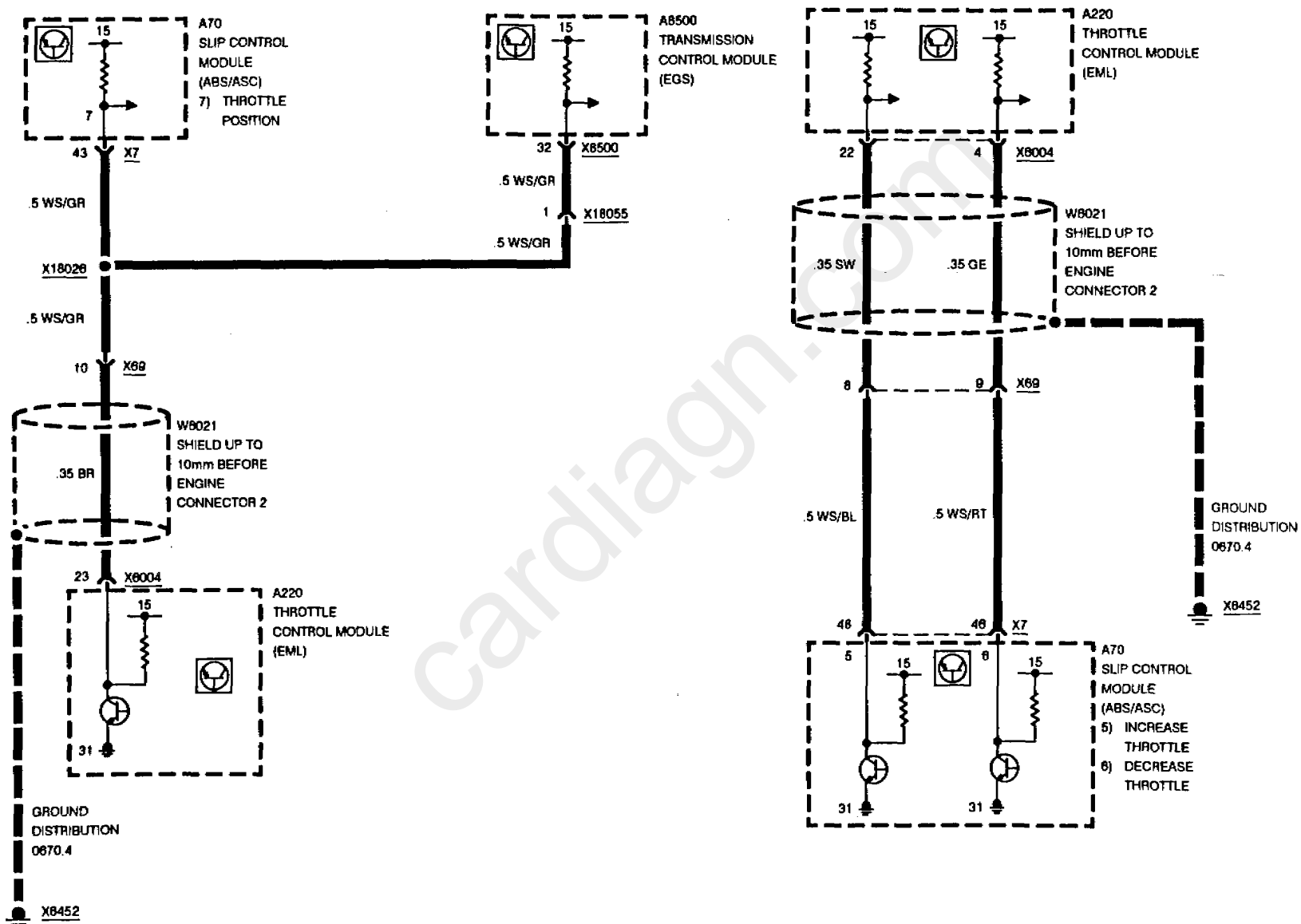
850iA



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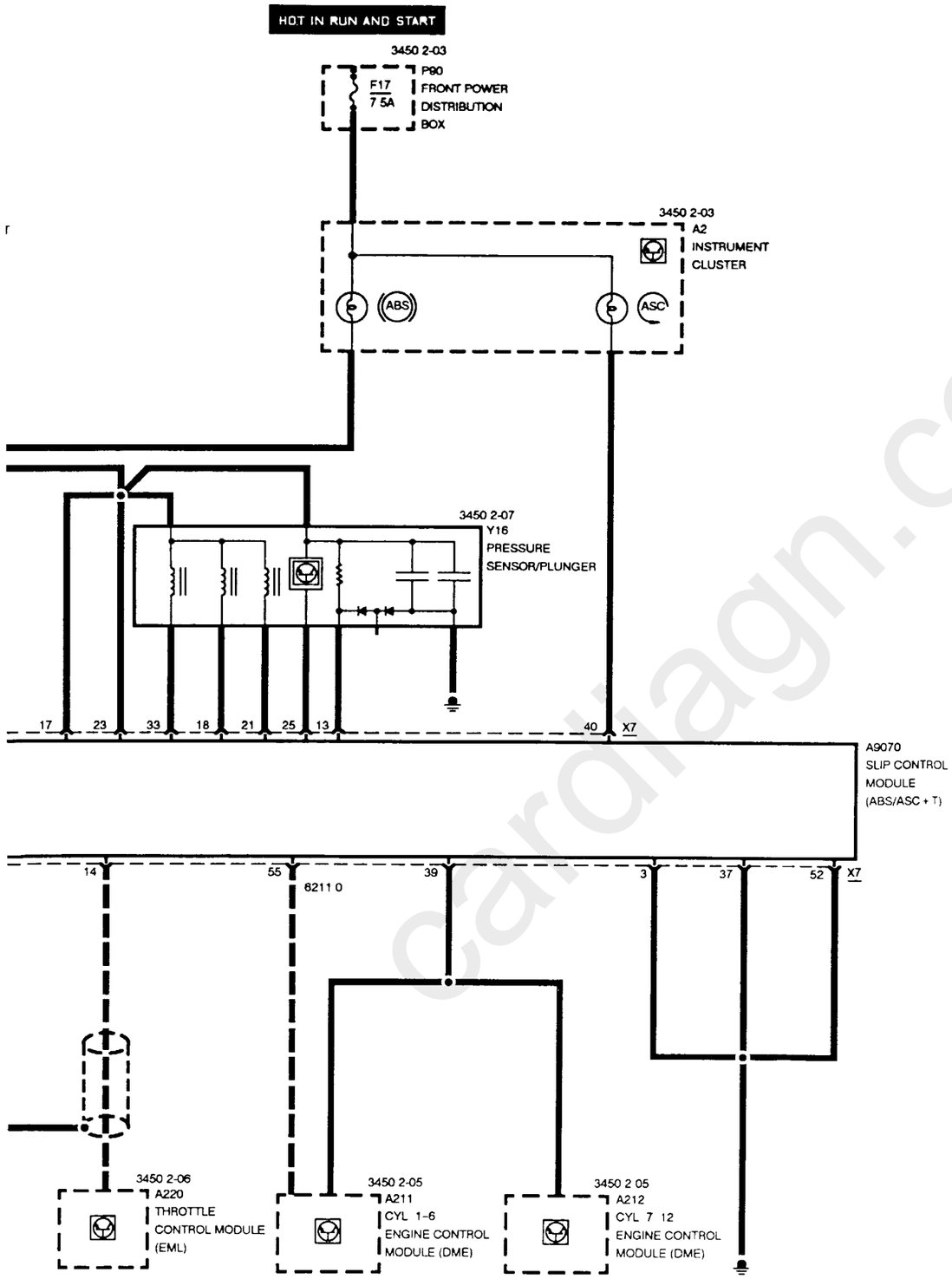
SLIP CONTROL (ABS/ASC)

EML INTERFACE

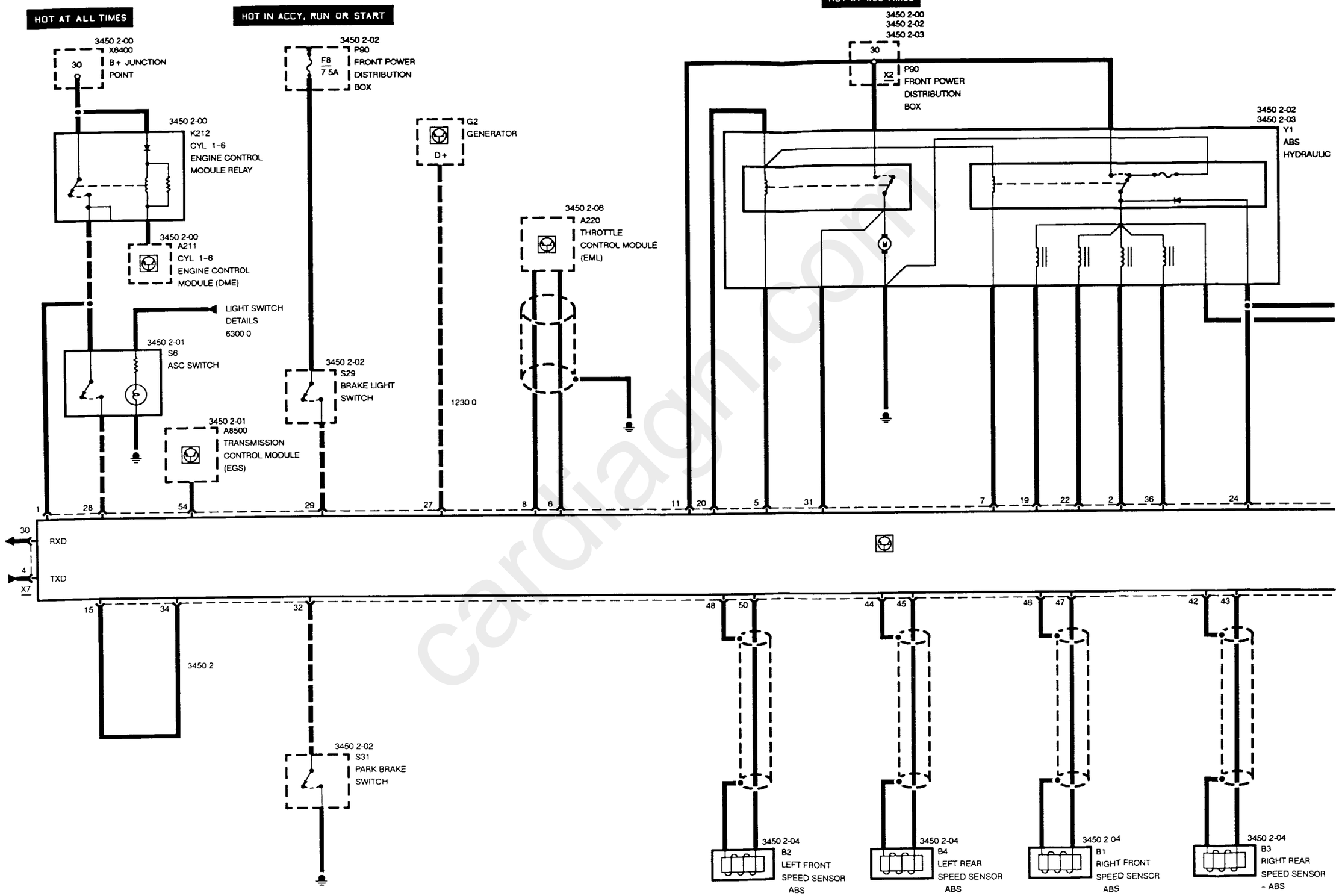


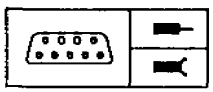
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HOT AT ALL TIMES
HOT IN ACCY, RUN OR START
HOT AT ALL TIMES
3450 2-00
X6400
30
B+ JUNCTION POINT
3450 2-00
K212
CYL 1-6
ENGINE CONTROL
MODULE RELAY
3450 2-00
A211
CYL 1-6
ENGINE CONTROL
MODULE (DME)
LIGHT SWITCH
DETAILS
6300 0
3450 2-01
S6
ASC SWITCH
3450 2-01
A8500
TRANSMISSION
CONTROL MODULE
(EGS)
3450 2-02
P90
FRONT POWER
DISTRIBUTION
BOX
F8
7.5A
3450 2-02
S29
BRAKE LIGHT
SWITCH
G2
GENERATOR
D+
1230 0
3450 2-06
A220
THROTTLE
CONTROL MODULE
(EML)
3450 2-00
3450 2-02
3450 2-03
30
X2
P90
FRONT POWER
DISTRIBUTION
BOX
3450 2-02
3450 2-03
Y1
ABS
HYDRAULIC
1
28
54
29
27
8
6
11
20
5
31
7
19
22
2
36
24
30
RXD
4
TXD
X7
15
34
32
3450 2
3450 2-02
S31
PARK BRAKE
SWITCH
48
50
44
45
46
47
42
43
3450 2-04
B2
LEFT FRONT
SPEED SENSOR
ABS
3450 2-04
B4
LEFT REAR
SPEED SENSOR
ABS
3450 2 04
B1
RIGHT FRONT
SPEED SENSOR
ABS
3450 2-04
B3
RIGHT REAR
SPEED SENSOR
- ABS



Pin Assignments

X7

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	E	B+ (terminal 15)	DME main relay	approx. 12 V		Ignition on
2	A	Rear left solenoid valve activation	ABS hydraulic unit	Ground		Cannot be measured statically
3	M	Control unit ground	Body ground	Ground		None
4	E/A	Diagnostic link TxD	Diagnostic bus			
5	A	Pump relay activation	ABS hydraulic unit	Ground		Cannot be measured statically
6	A	Throttle reduction signal	EML control unit	Pulse width–modulated square–wave signal		Cannot be measured statically
7	A	Valve relay activation	ABS hydraulic unit	approx. 0 V		Ignition on
8	A	Throttle increase signal	EML control unit	Pulse width–modulated square–wave signal		Cannot be measured statically
9		Not used				
10		Not used				
11	E	B+ (terminal 30)	Battery	approx. 12 V		Only for control unit with the BMW No. 1 158 804 (red–violet adhesive label)

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SLIP CONTROL (ABS/ASC+T)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
12		Not used				
13	E	Operating pressure signal	Pressure sensor	<1,5 V/>3,5 V		Ignition on
14	E	Throttle position	EML control unit	Pulse width–modulated square–wave signal		Cannot be measured statically
15	A	Coding jumper manual transmission	Pin 34 (stabilized voltage)	5 V		None
16		Not used				
17	E	Voltage signal valve relay	ABS hydraulic unit	approx. 12 V		Ignition on
18	A	Rear right solenoid valve activation	Pressure sensor	Ground		Cannot be measured statically
19	A	Front left solenoid valve activation	Plunger hydraulic unit	Ground		Cannot be measured statically
20	A	Voltage signal pump relay	ABS hydraulic unit	approx. 12 V		None
21	A	Rear left solenoid valve activation	Pressure sensor	Ground		Cannot be measured statically
22	A	Front right solenoid valve activation	Plunger hydraulic unit	Ground		Cannot be measured statically
23	E	Voltage signal, valve relay	ABS hydraulic unit	approx. 12 V		Ignition on
24	E	Voltage signal ABS warning lamp	Instrument cluster	approx. 0 V/ approx. 12 V		Ignition on/ engine on
25	E	Accumulator warning pressure threshold	Pressure sensor	< 1,5 V/> 3,5 V		Ignition on
26		Not used				
27	E	Terminal 61d D+	Alternator	> 12 V		Engine on

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SLIP CONTROL (ABS/ASC+T)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
28	E	ASC switch signal	ASC switch	approx. 0 V/ approx. 12 V		Ignition on/ ASC button depressed
29	E	Brake light signal	Brake light switch	approx. 12 V		Ignition on
30	E	Diagnostic link RxD	Diagnostic bus			
31	E	Pump relay signal	ABS hydraulic unit	approx. 12 V		Cannot be measured statically
32	E	Park brake switch signal	Park brake switch	approx. 12 V		Ignition on
33	A	Accumulator charging valve activation	Pressure sensor	Ground		Cannot be measured statically
34	E	Coding jumper manual transmission	Pin 15			
35		Not used				
36	A	Rear right solenoid valve activation	ABS hydraulic unit	Ground		Cannot be measured statically
37	M	Control unit ground	Body ground	Ground		None
38		Not used				
39	A	Ignition angle adjustment	DME control units	approx. 12 V		Cannot be measured statically
40	A	ASC multi-function lamp	Instrument cluster	approx. 0 V/ approx. 12 V		Ignition on/ engine on
41		Not used				
42	A	Rear right wheel speed sensor ground	Speed sensor	Ground		None
43	E	Rear right wheel speed signal	Speed sensor	AC voltage		Cannot be measured statically
44	A	Rear left wheel speed sensor ground	Speed sensor	Ground		None

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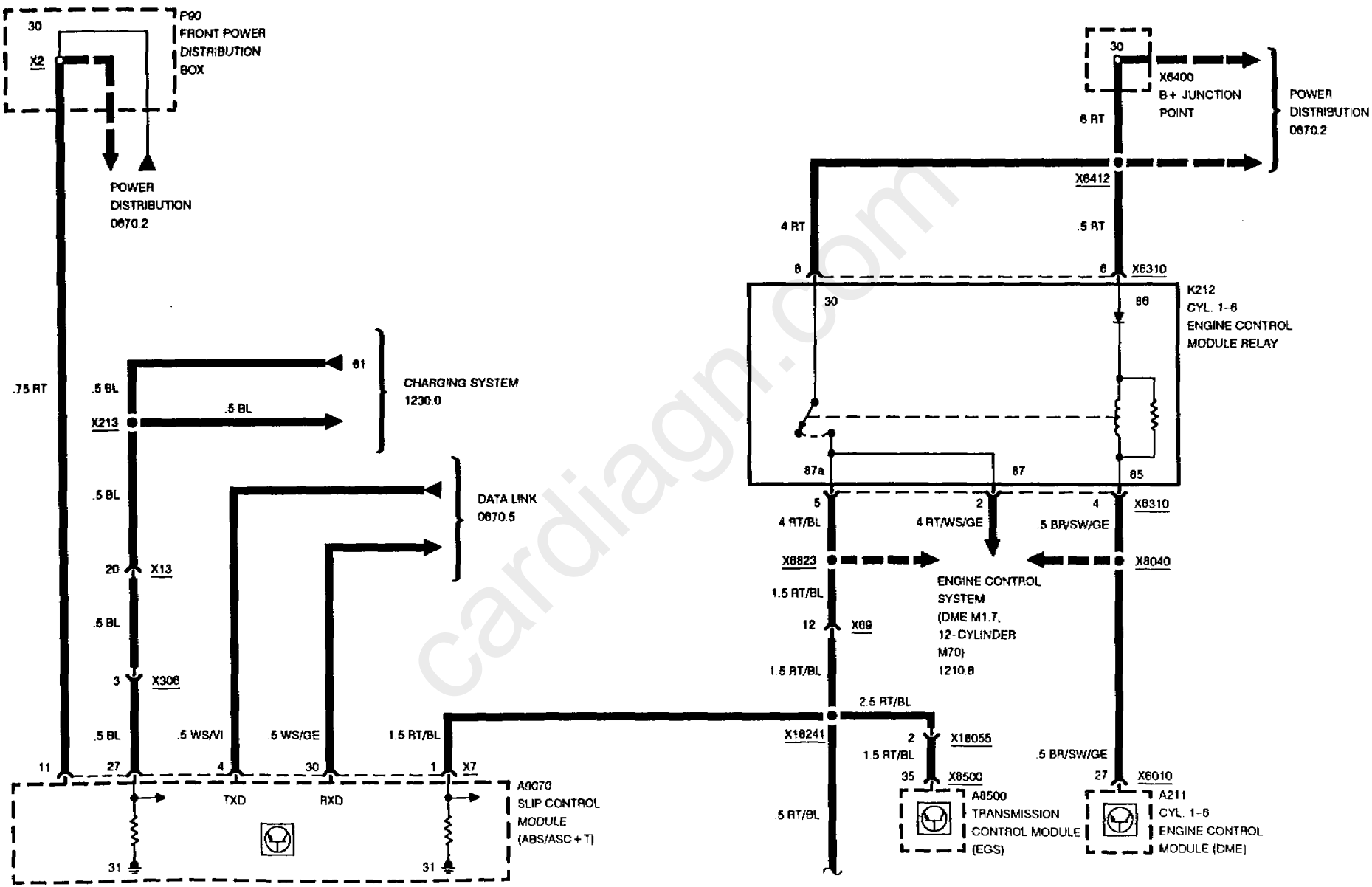
Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
45	E	Rear left wheel speed signal	Speed sensor	AC voltage		Cannot be measured statically
46	A	Front right wheel speed sensor ground	Speed sensor	Ground		None
47	E	Front right wheel speed signal	Speed sensor	AC voltage		Cannot be measured statically
48	A	Front left wheel speed sensor ground	Speed sensor	Ground		None
49		Not used				
50	E	Front left wheel speed signal	Speed sensor	AC voltage		Cannot be measured statically
51		Not used				
52	M	Control unit ground	Body ground	Ground		None
53		Not used				
54	A	Signal, transmission intervention	EGS control unit	approx. 12 V		Ignition on
55	E	Engine speed signal	DME control unit	Square-wave signal		Cannot be measured statically

E = Input, A = Output, M = Ground

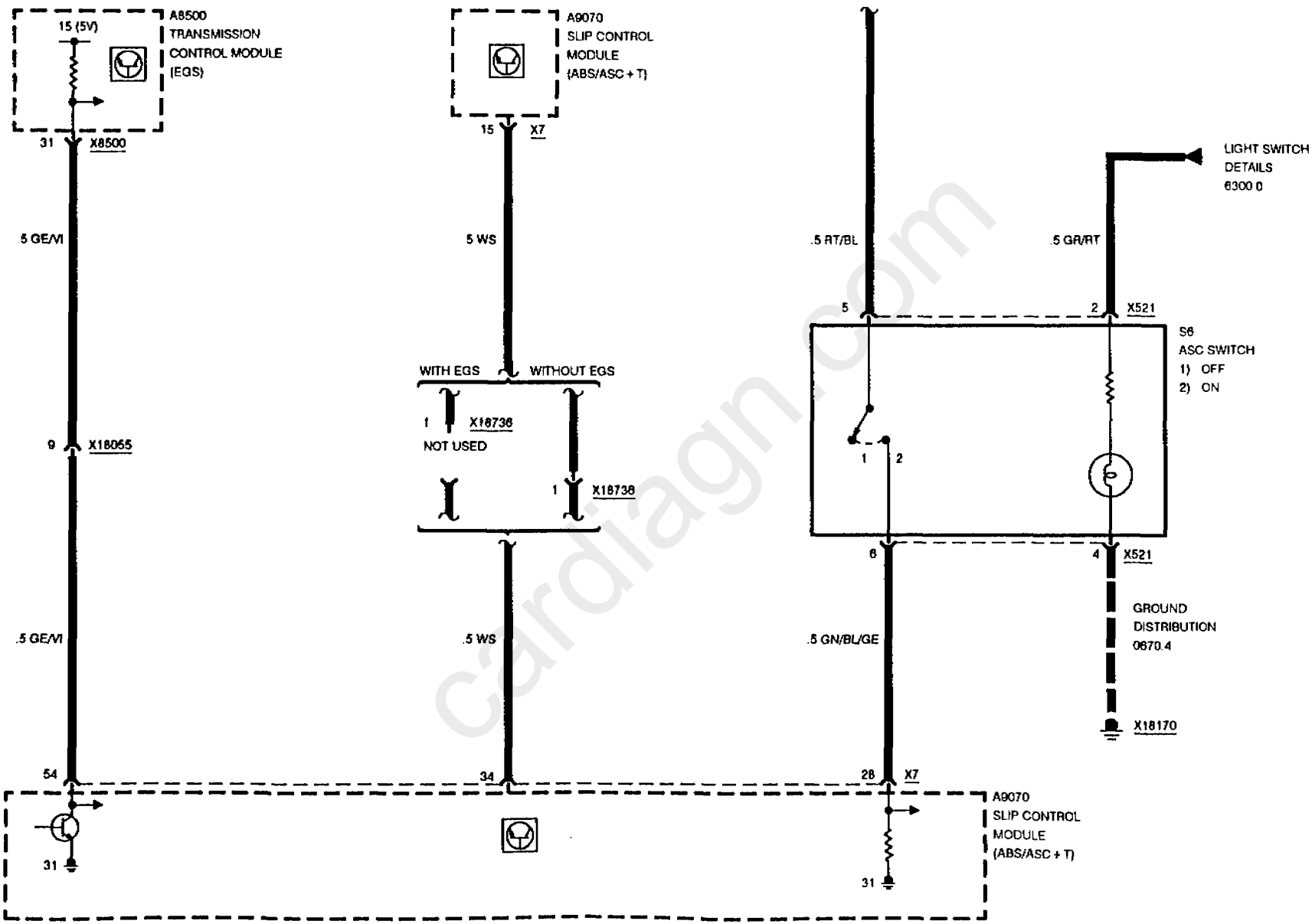
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SLIP CONTROL (ABS/ASC+T)

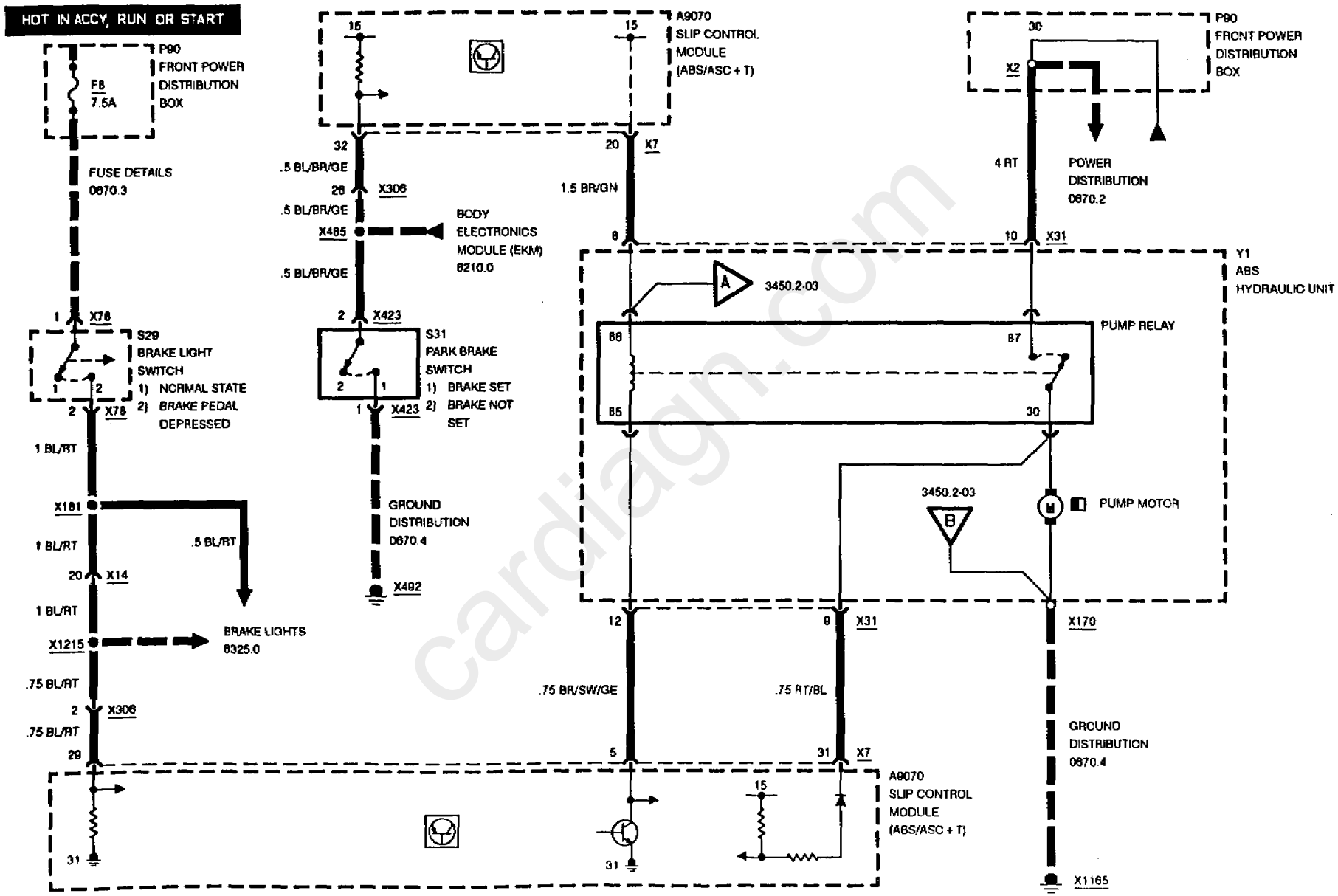


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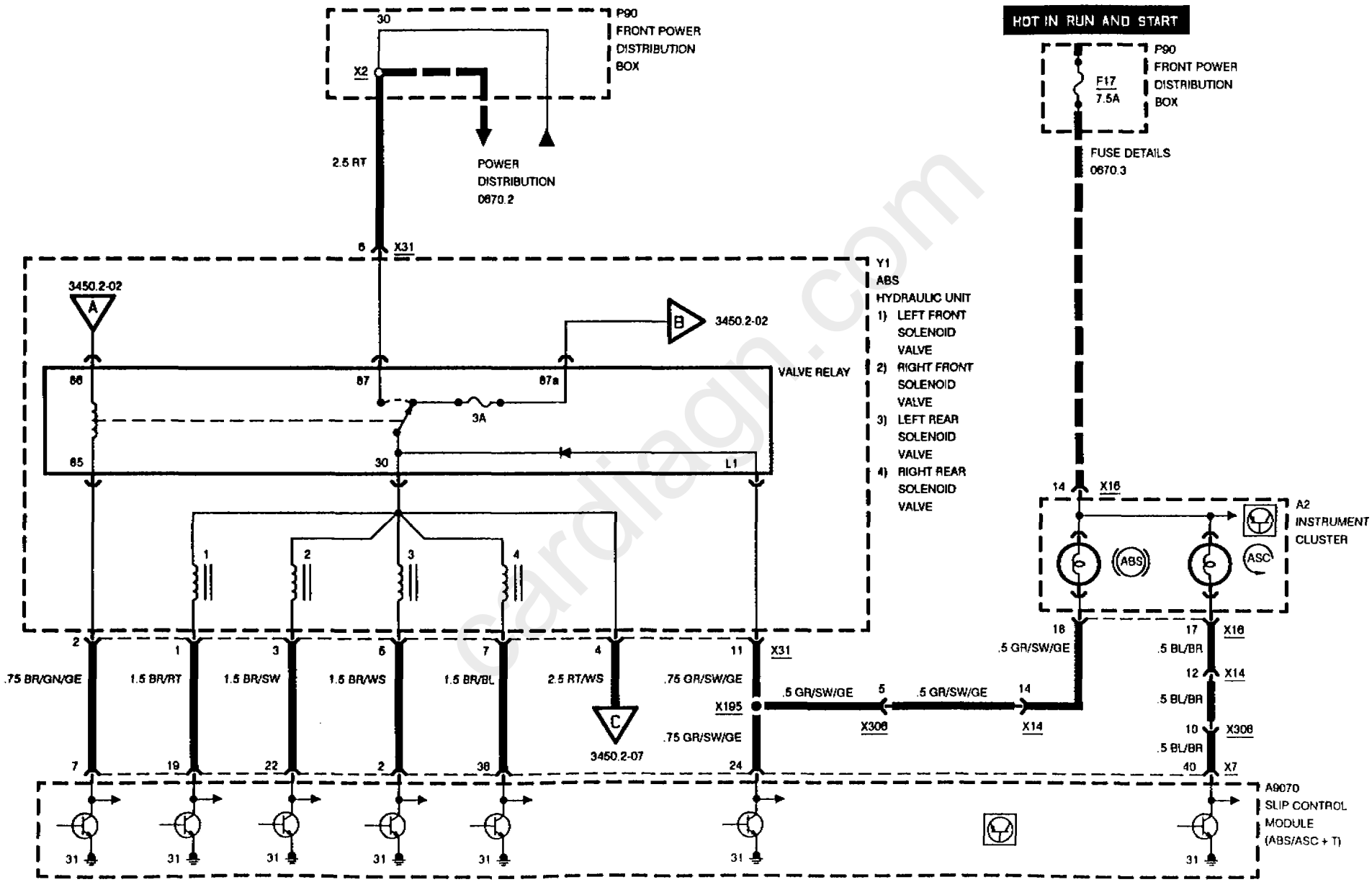
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SLIP CONTROL (ABS/ASC+T)



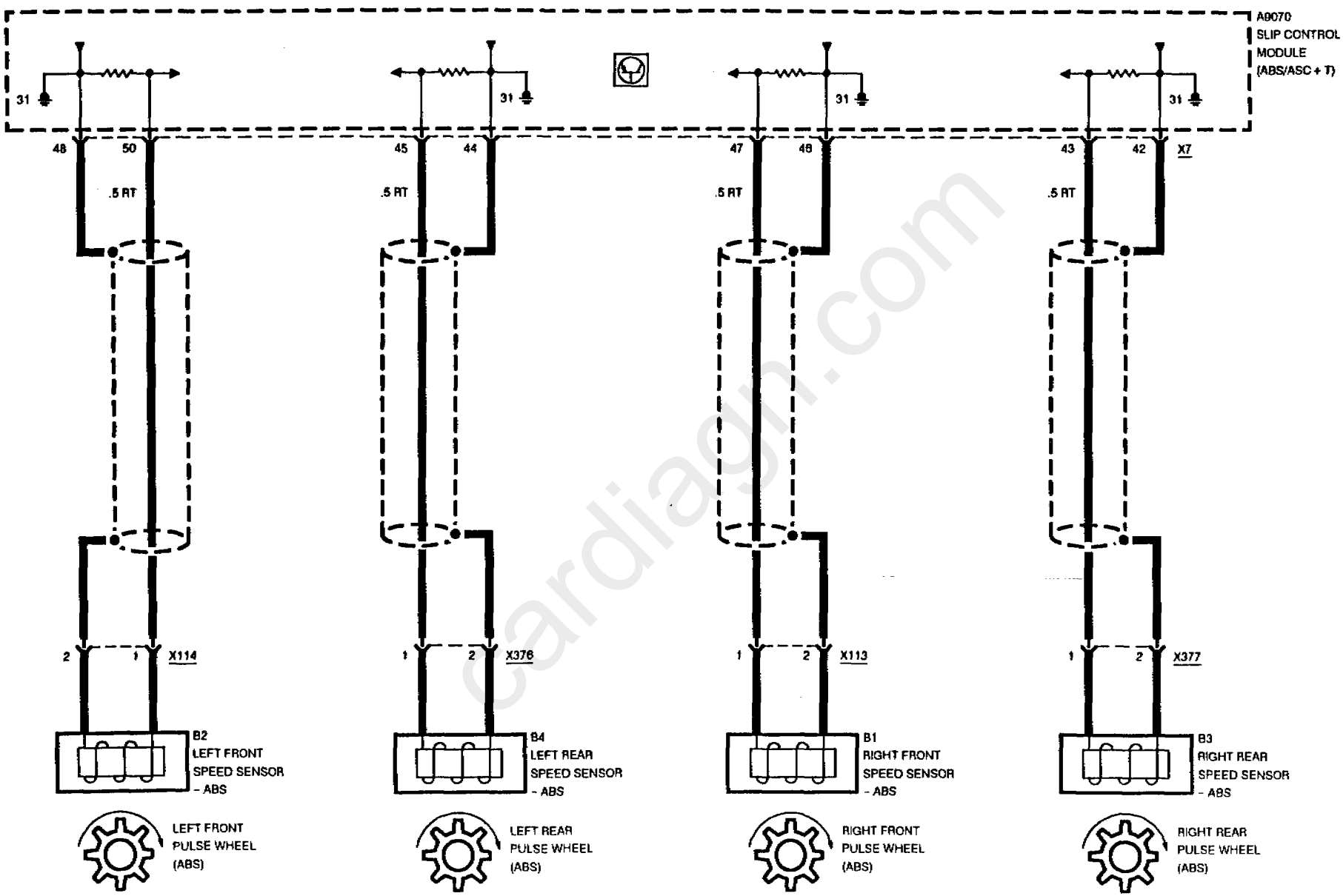
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SLIP CONTROL (ABS/ASC+T)



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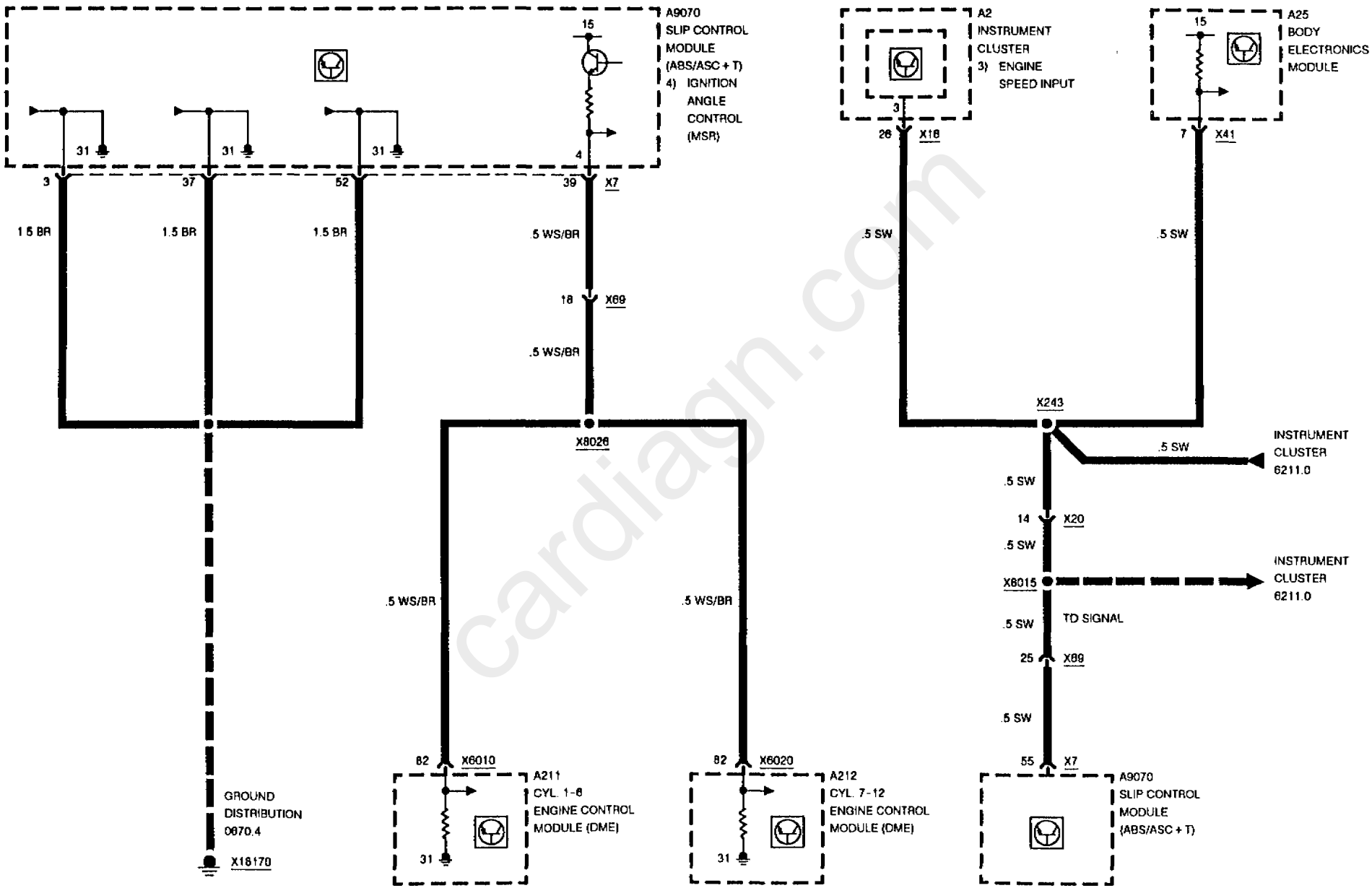
SLIP CONTROL (ABS/ASC+T)



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SLIP CONTROL (ABS/ASC + T)

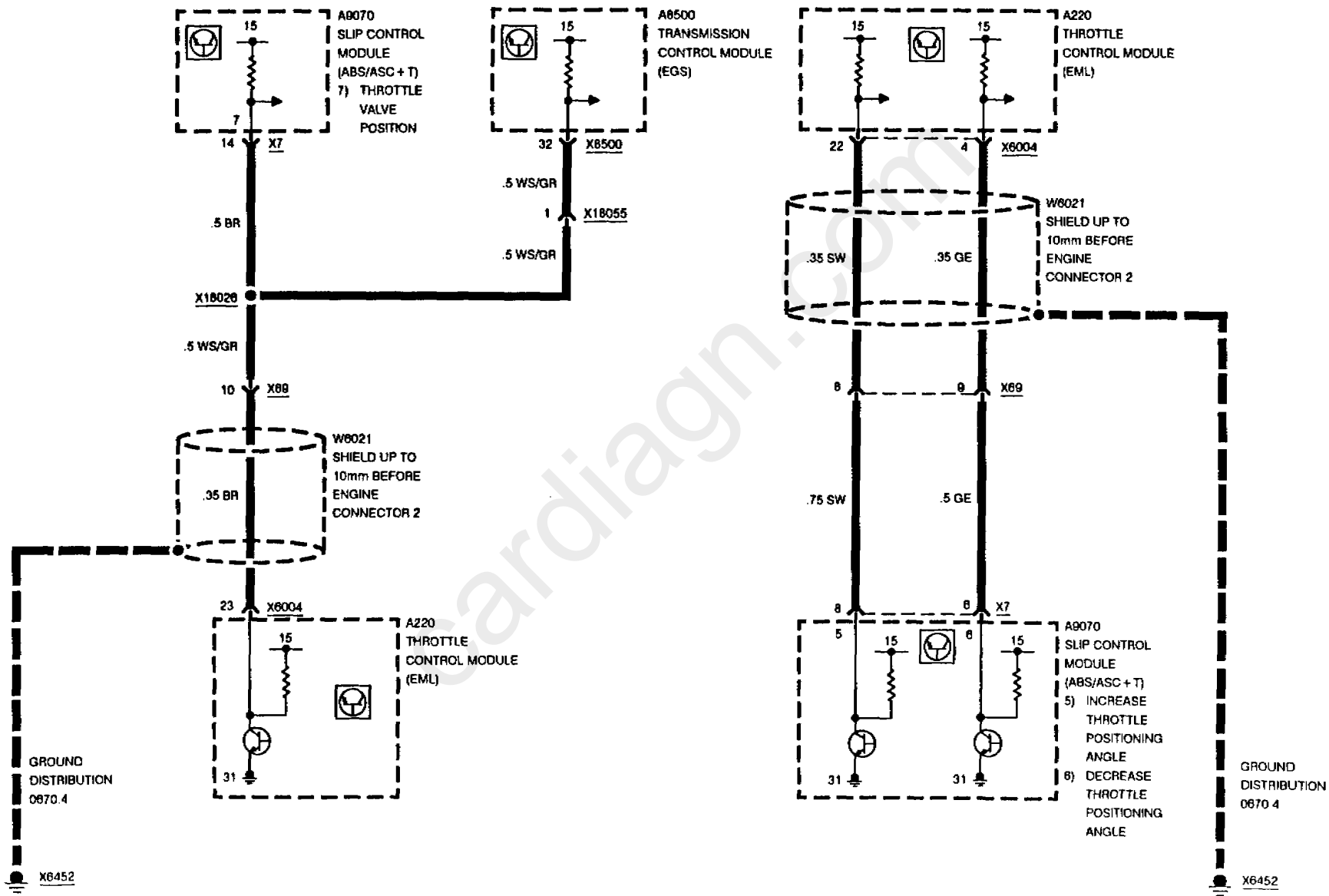
ENGINE CONTROL (DME) INTERFACE



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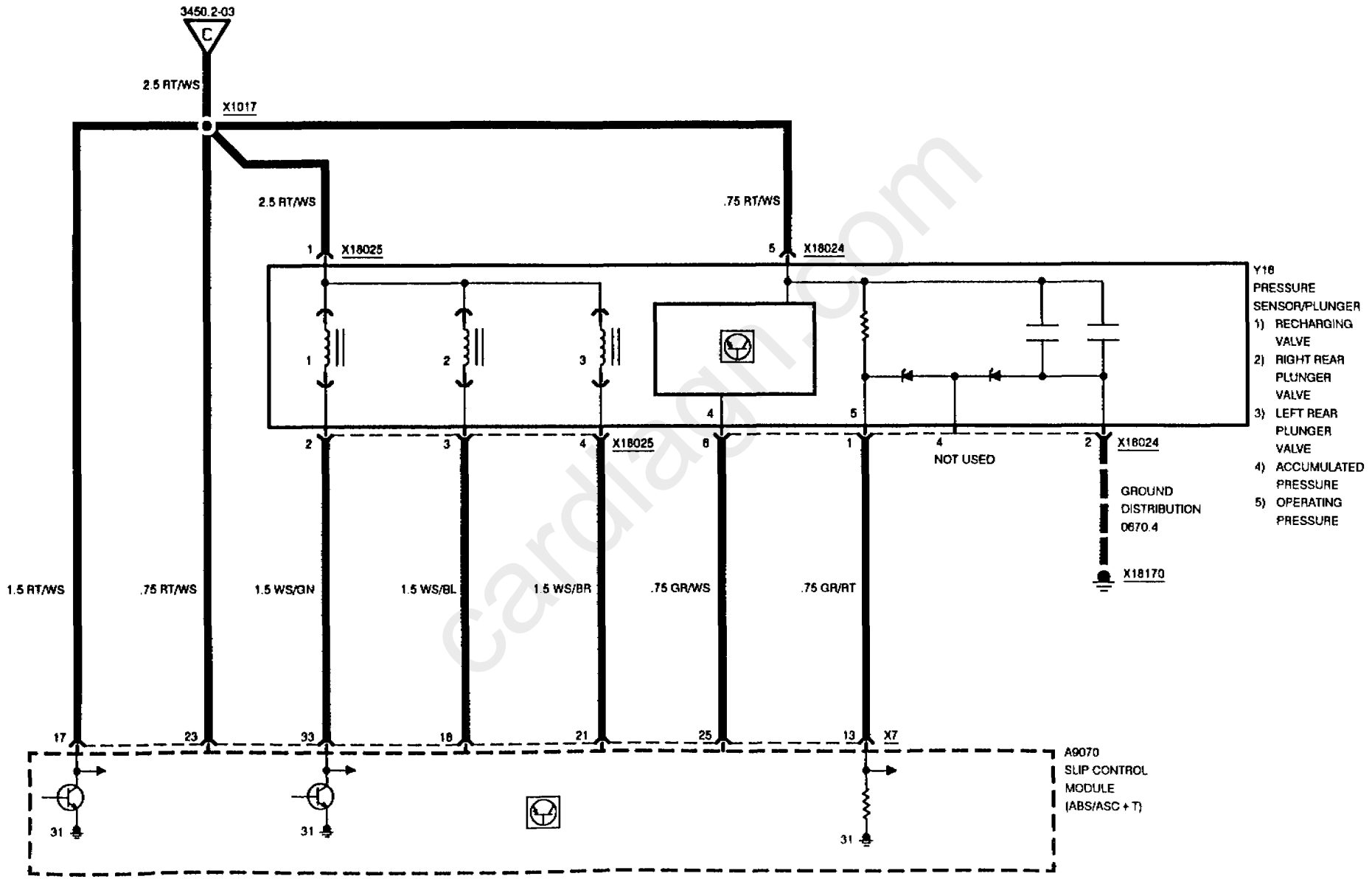
SLIP CONTROL (ABS/ASC+T)

EML INTERFACE



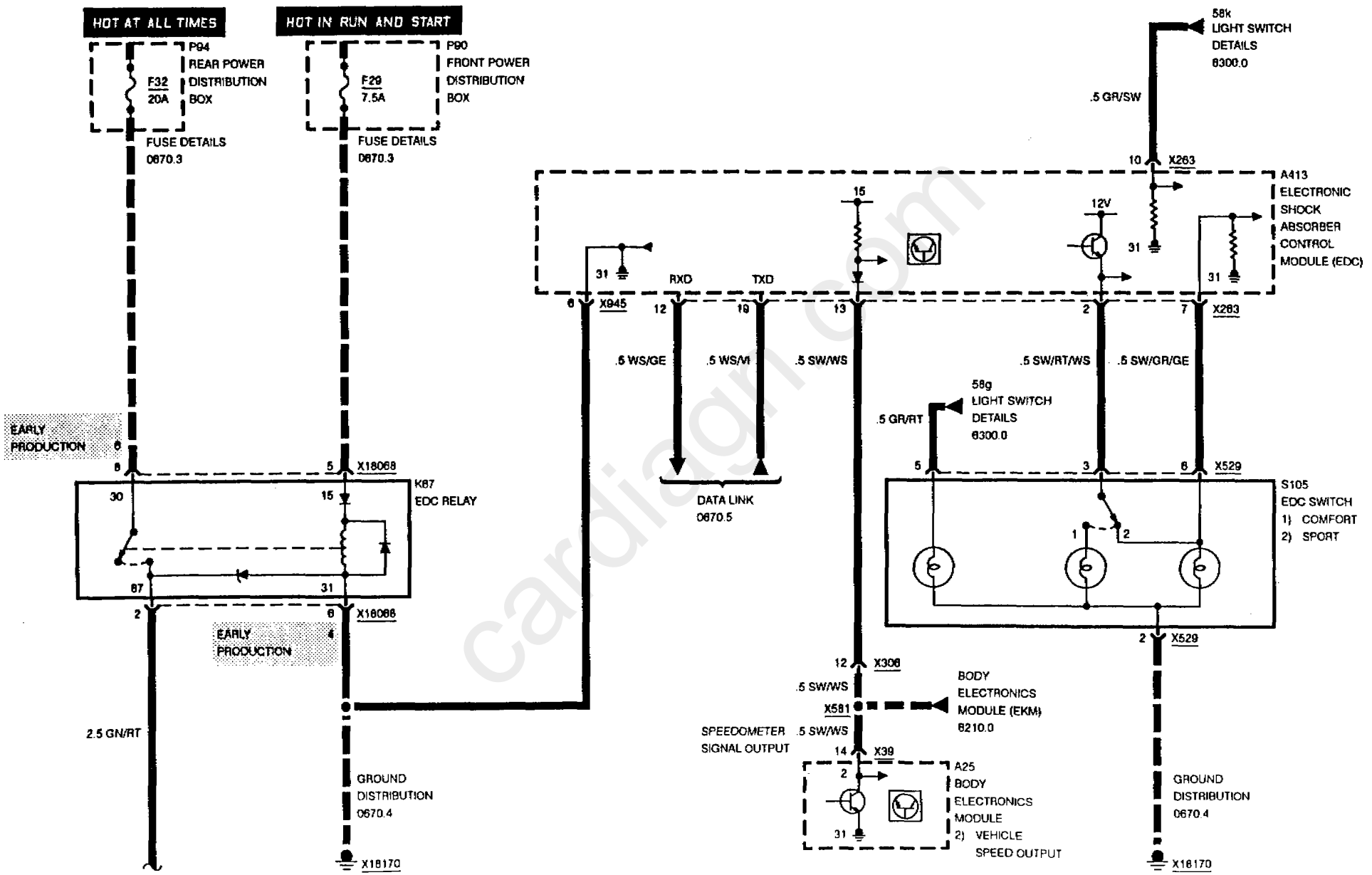
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SLIP CONTROL (ABS/ASC+T)

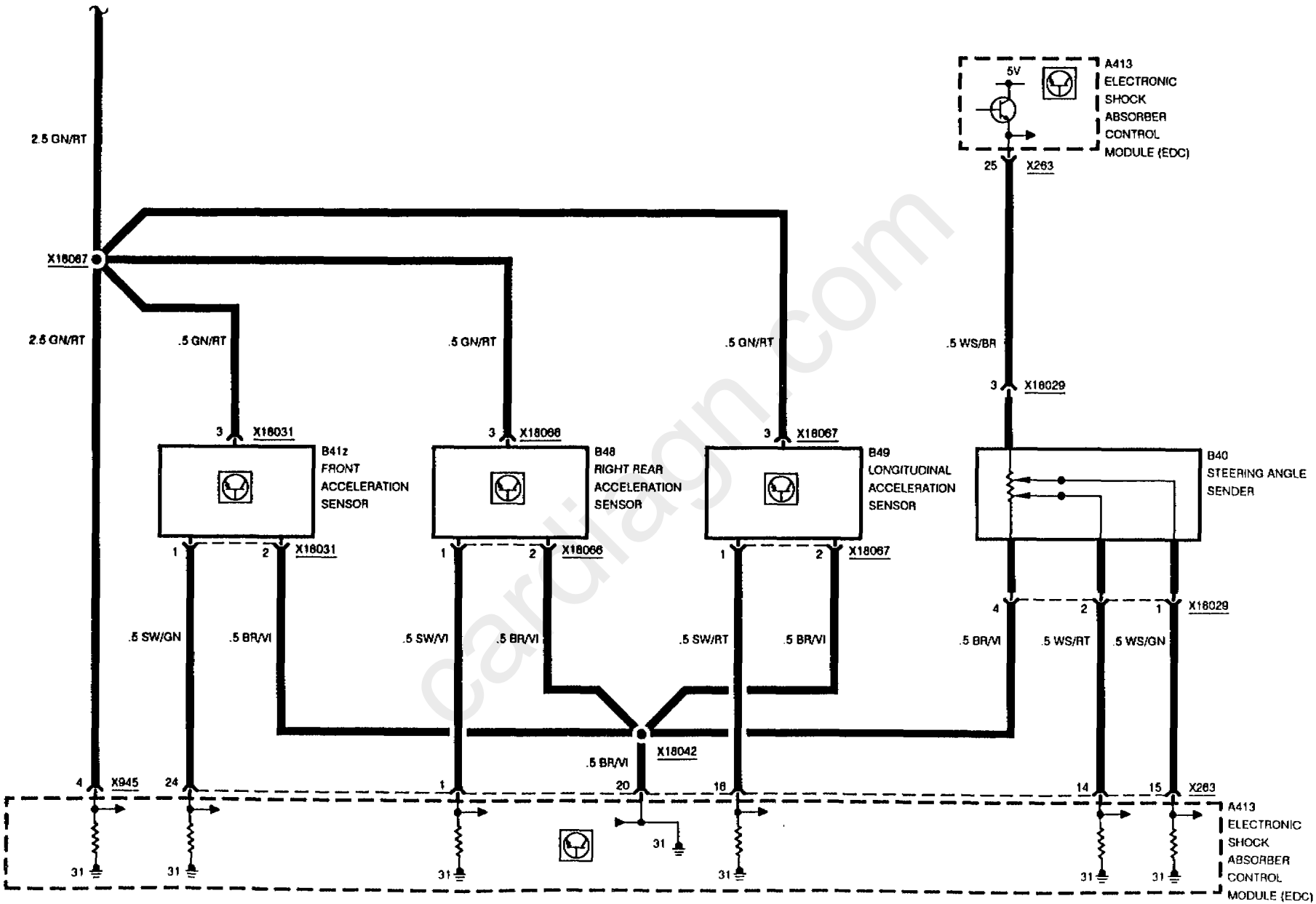


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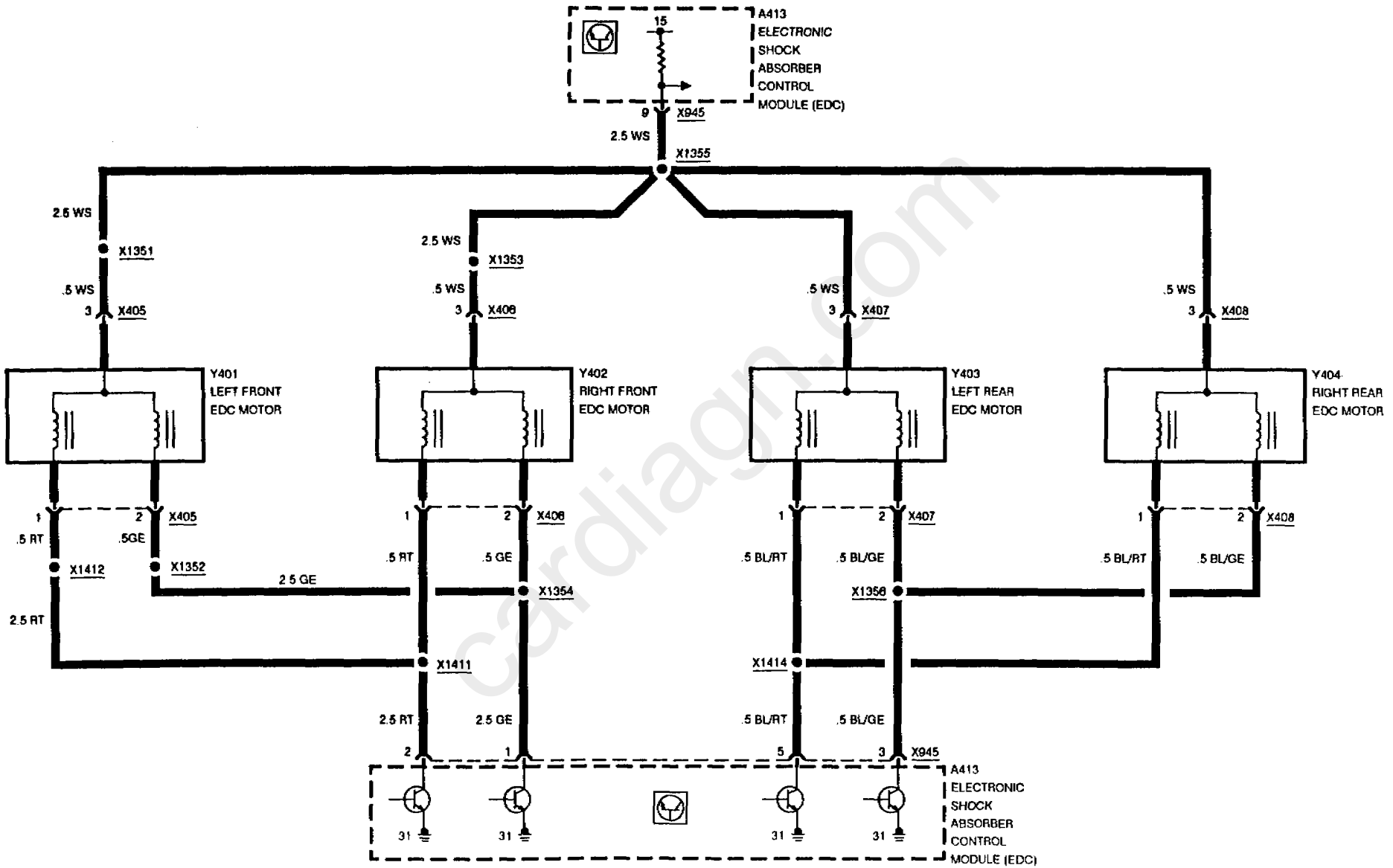
ELECTRONIC SHOCK ABSORBER CONTROL III+ (EDC III+)



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2.5 GN/RT
X18067
2.5 GN/RT
.5 GN/RT
.5 GN/RT
.5 GN/RT
5V
A413
ELECTRONIC
SHOCK
ABSORBER
CONTROL
MODULE (EDC)
25
X263
.5 WS/BR
3
X16029
3
X18031
B41z
FRONT
ACCELERATION
SENSOR
3
X18066
B48
RIGHT REAR
ACCELERATION
SENSOR
3
X18067
B49
LONGITUDINAL
ACCELERATION
SENSOR
B40
STEERING ANGLE
SENDER
1
2
X18031
1
2
X18066
1
2
X18067
4
2
1
X16029
.5 SW/GN
.5 BR/VI
.5 SW/VI
.5 BR/VI
.5 SW/RT
.5 BR/VI
.5 BR/VI
.5 WS/RT
.5 WS/GN
.5 BR/VI
X18042
4
X945
24
1
20
16
14
15
X263
31
31
31
31
31
31
A413
ELECTRONIC
SHOCK
ABSORBER
CONTROL
MODULE (EDC)

ELECTRONIC SHOCK ABSORBER CONTROL III+ (EDC III+)

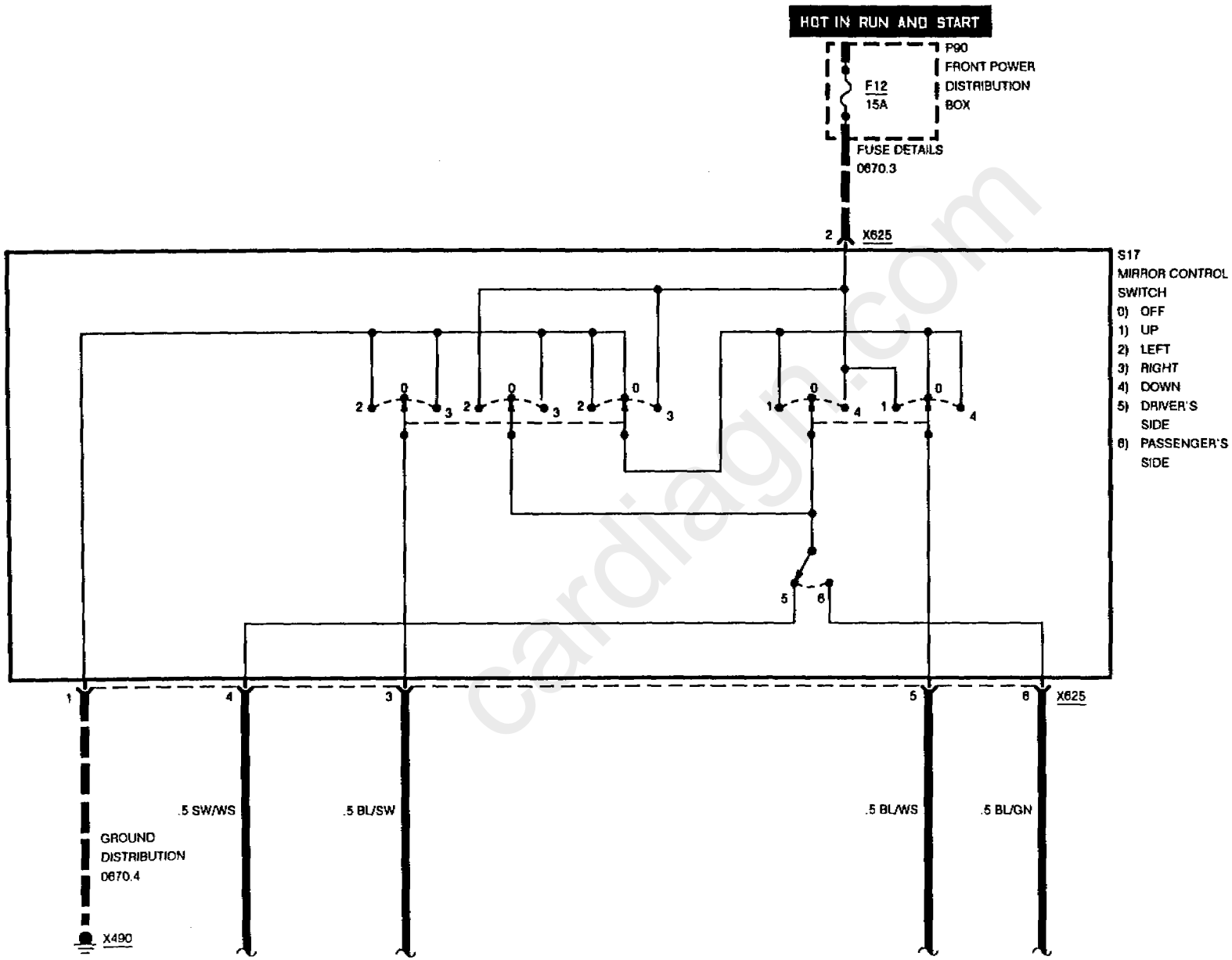


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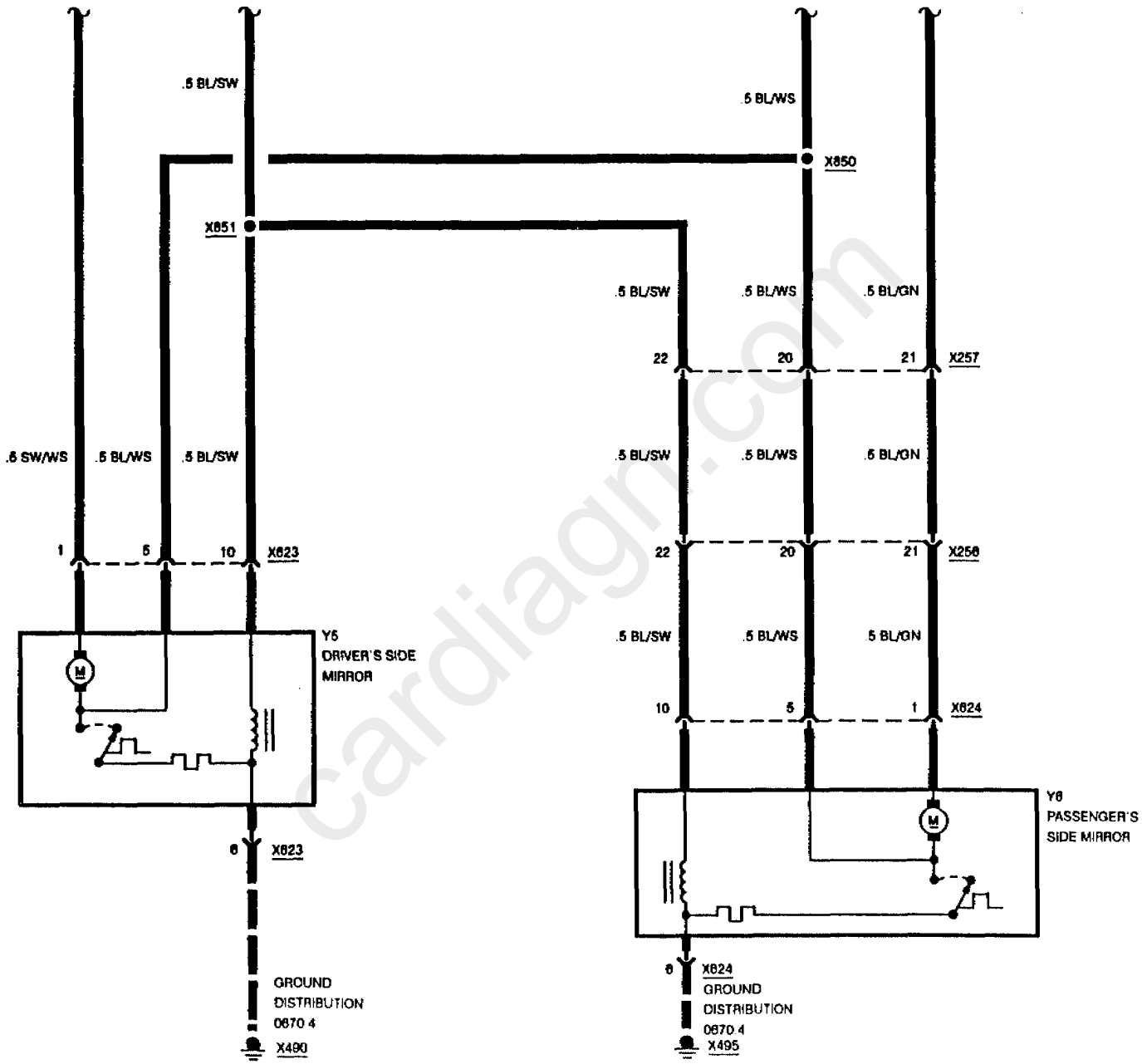
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POWER MIRRORS

OUTSIDE MIRRORS



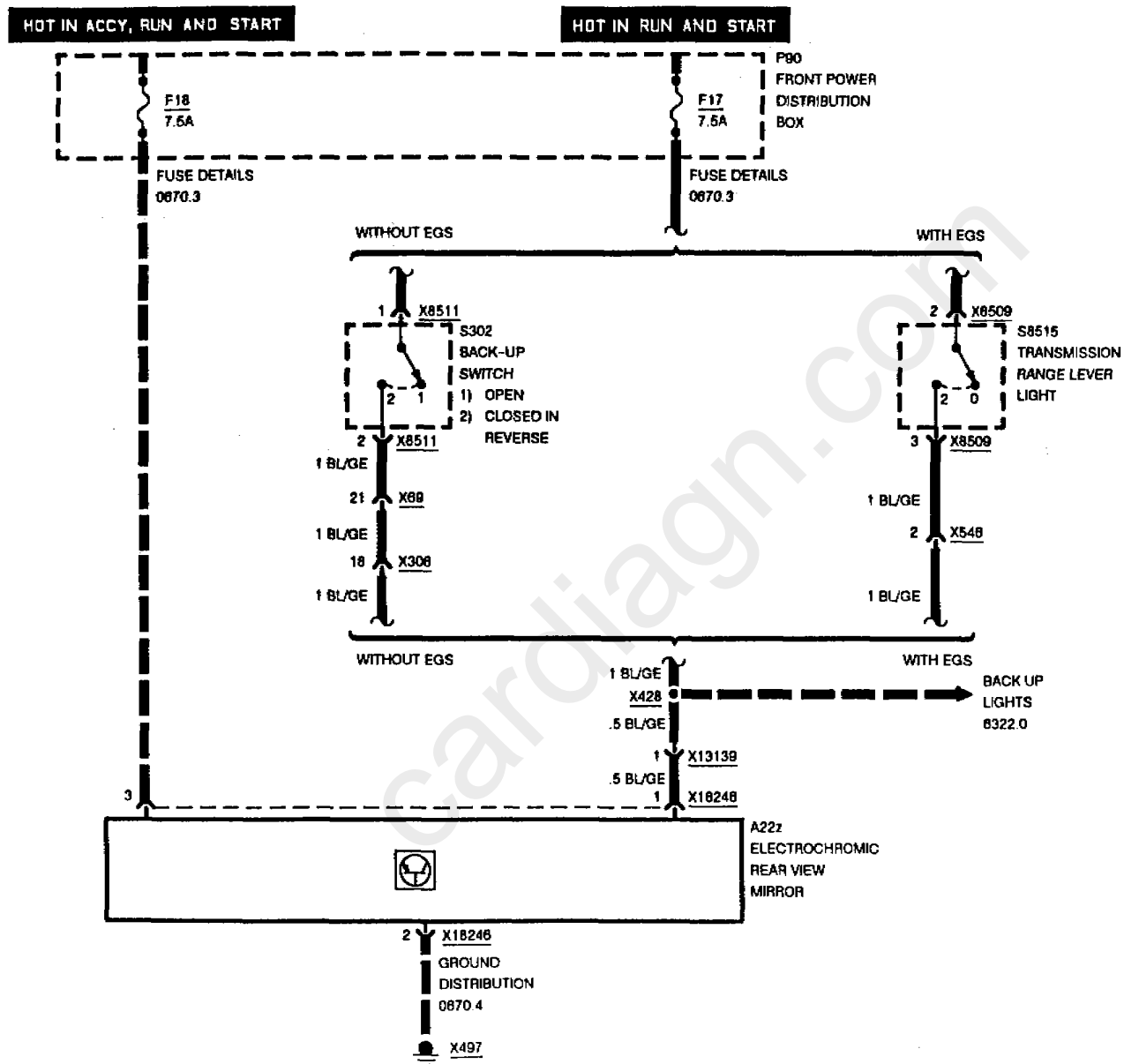
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POWER MIRRORS

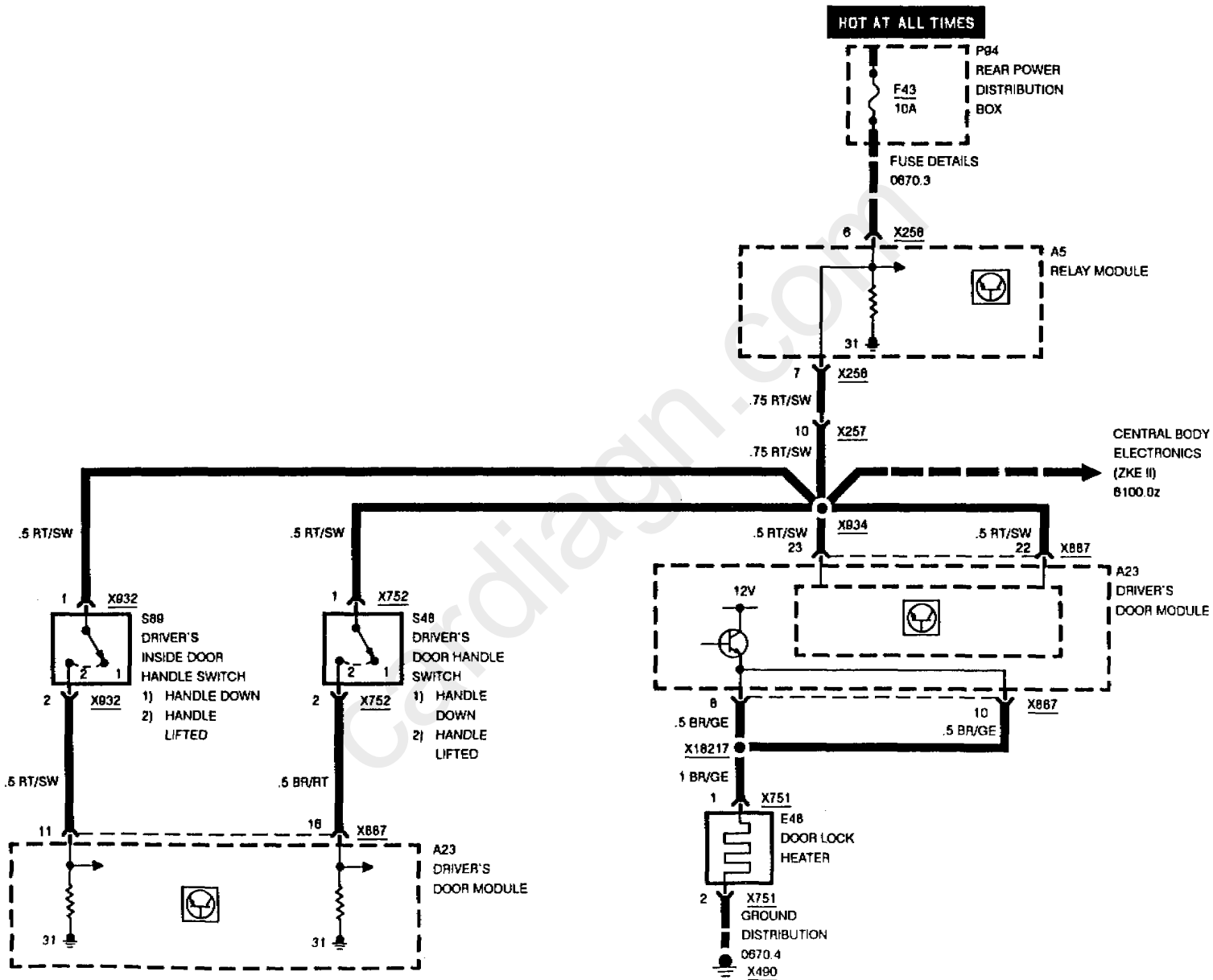
INSIDE MIRROR



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ZKE DOOR LOCK HEATING (TSH)

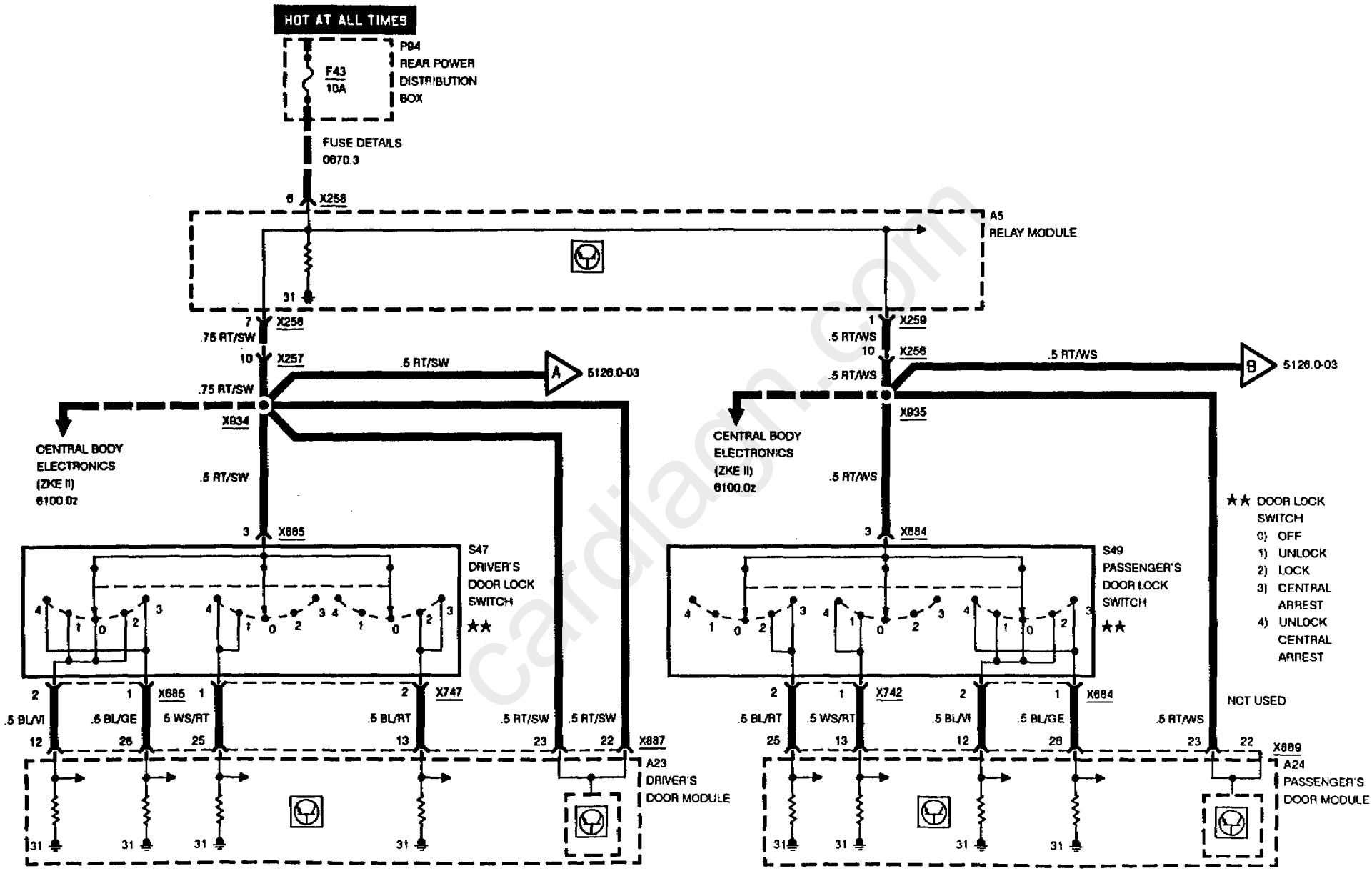


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ZKE CENTRAL LOCKING (ZV)

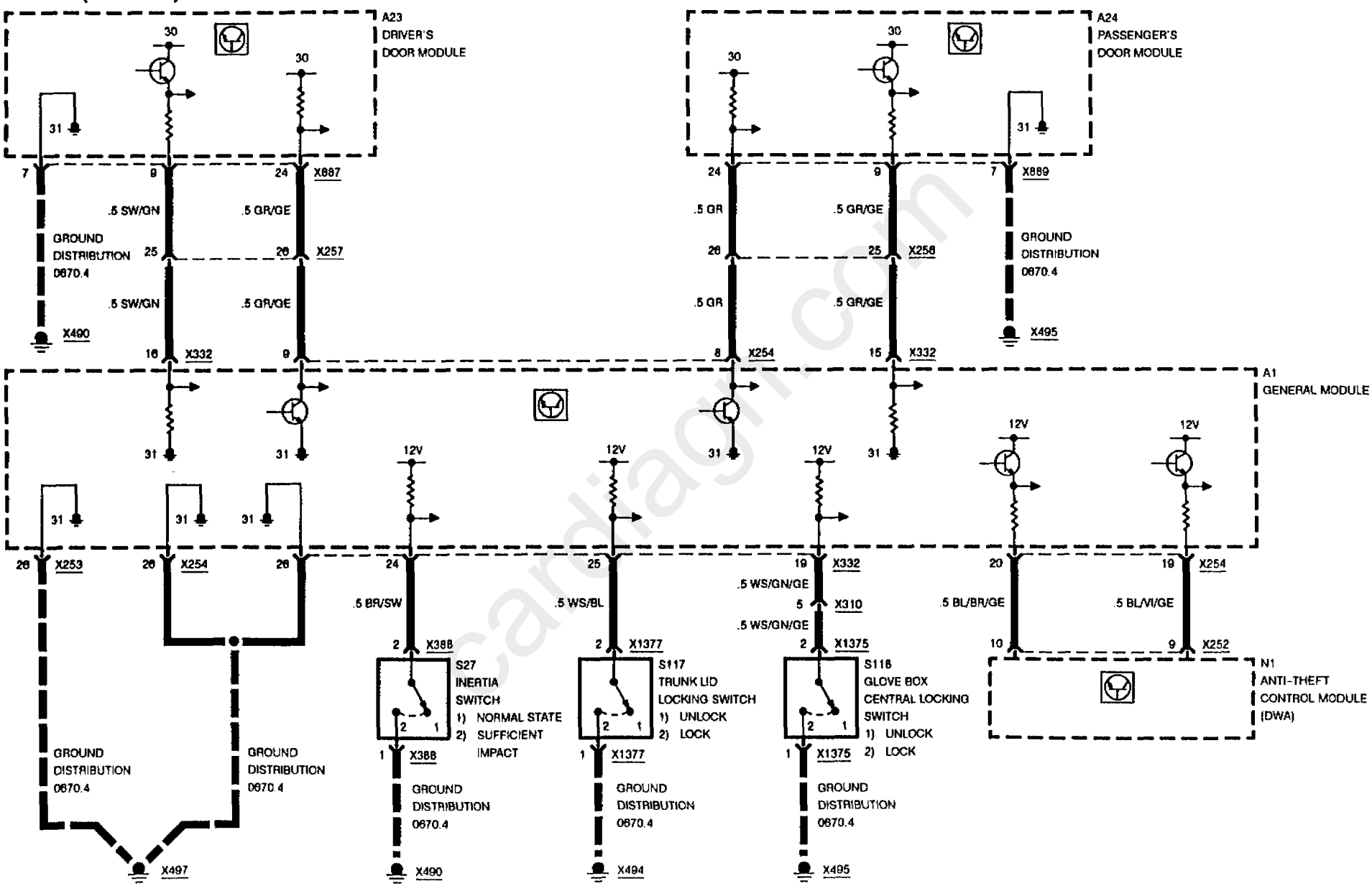
(INPUTS)



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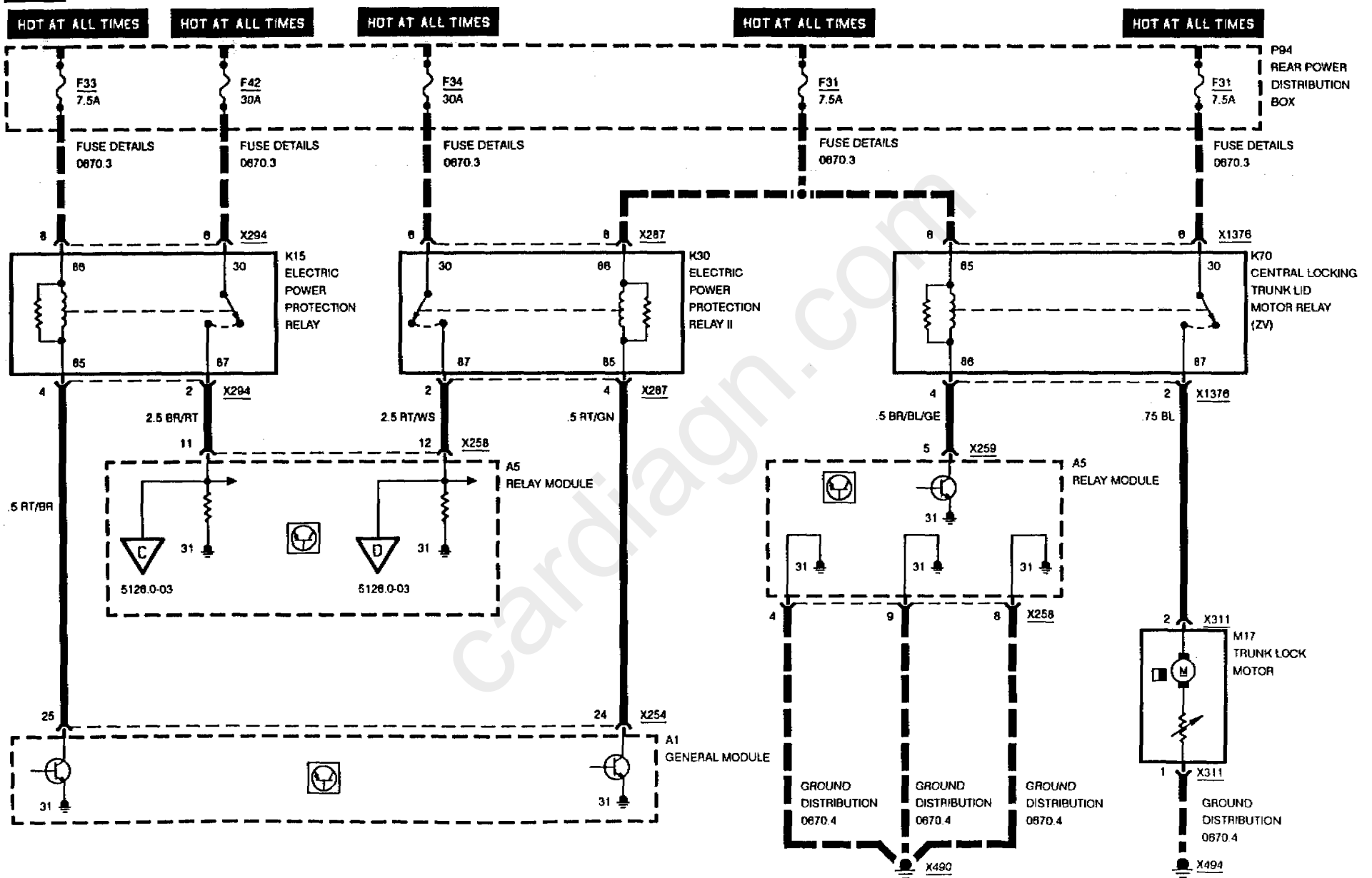
ZKE CENTRAL LOCKING (ZV)

(INPUTS)



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ZKE CENTRAL LOCKING (ZV)

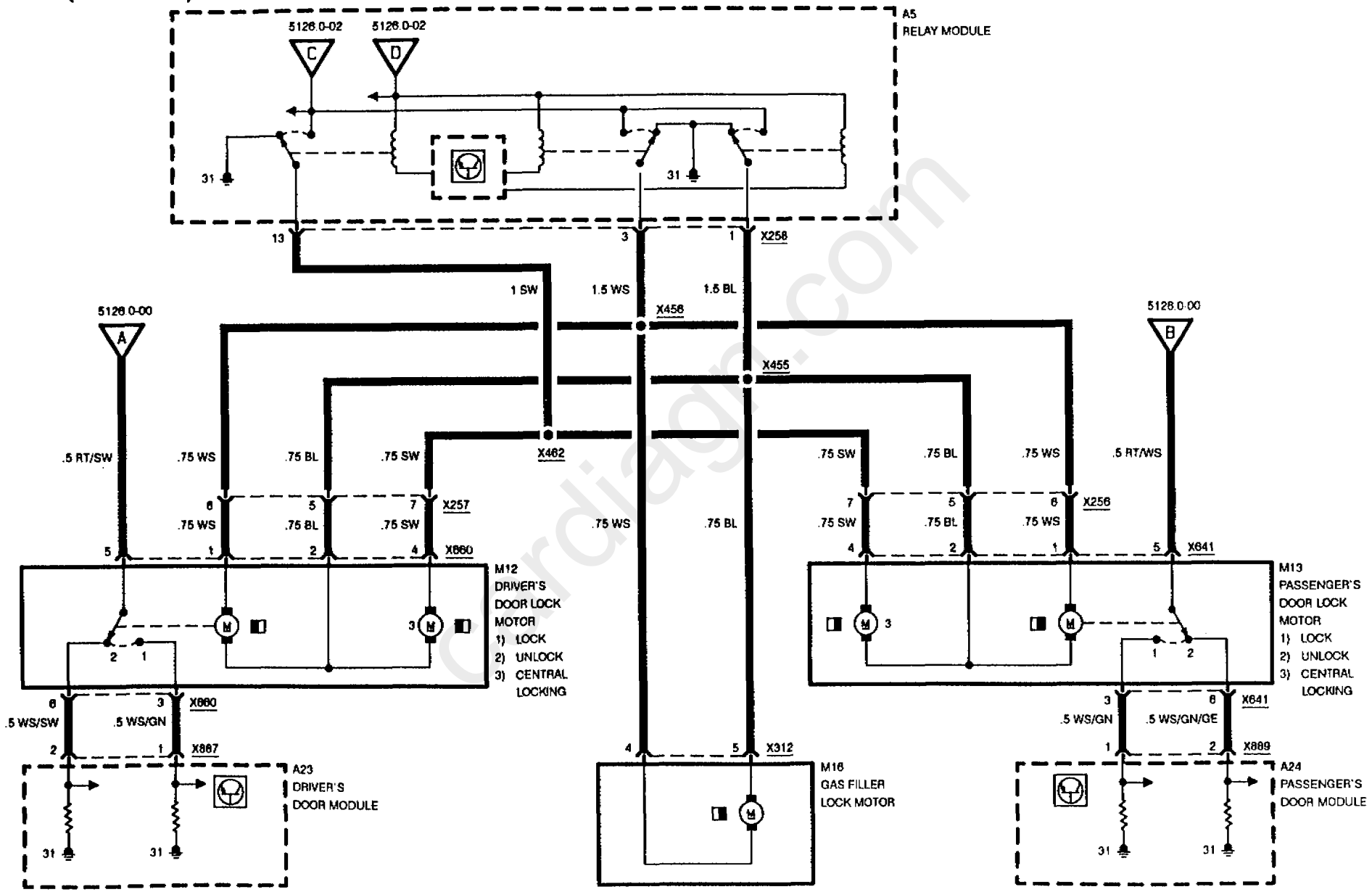


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BMW 8

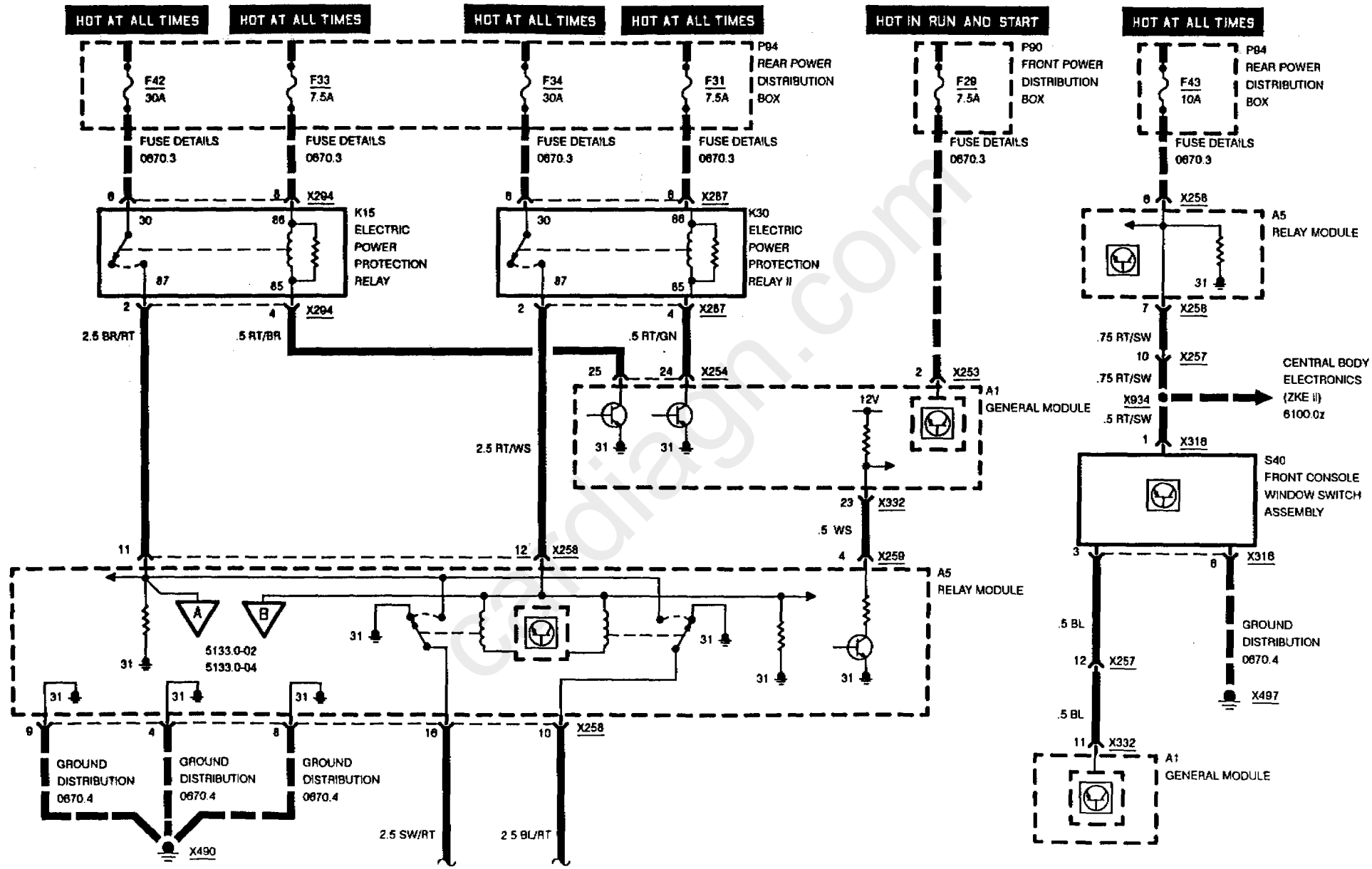
ZKE CENTRAL LOCKING (ZV)

(OUTPUTS)

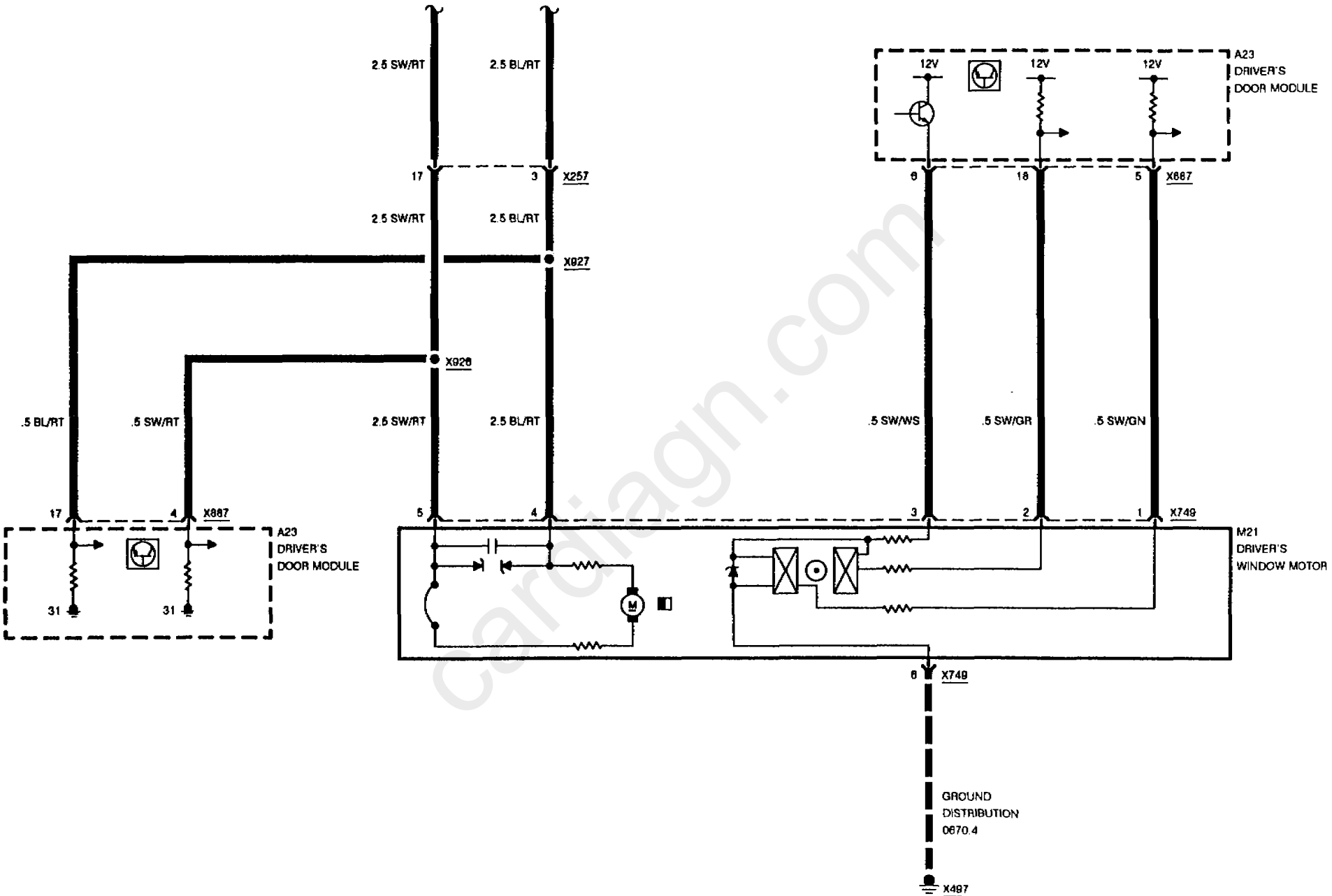


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ZKE POWER WINDOWS (FH)

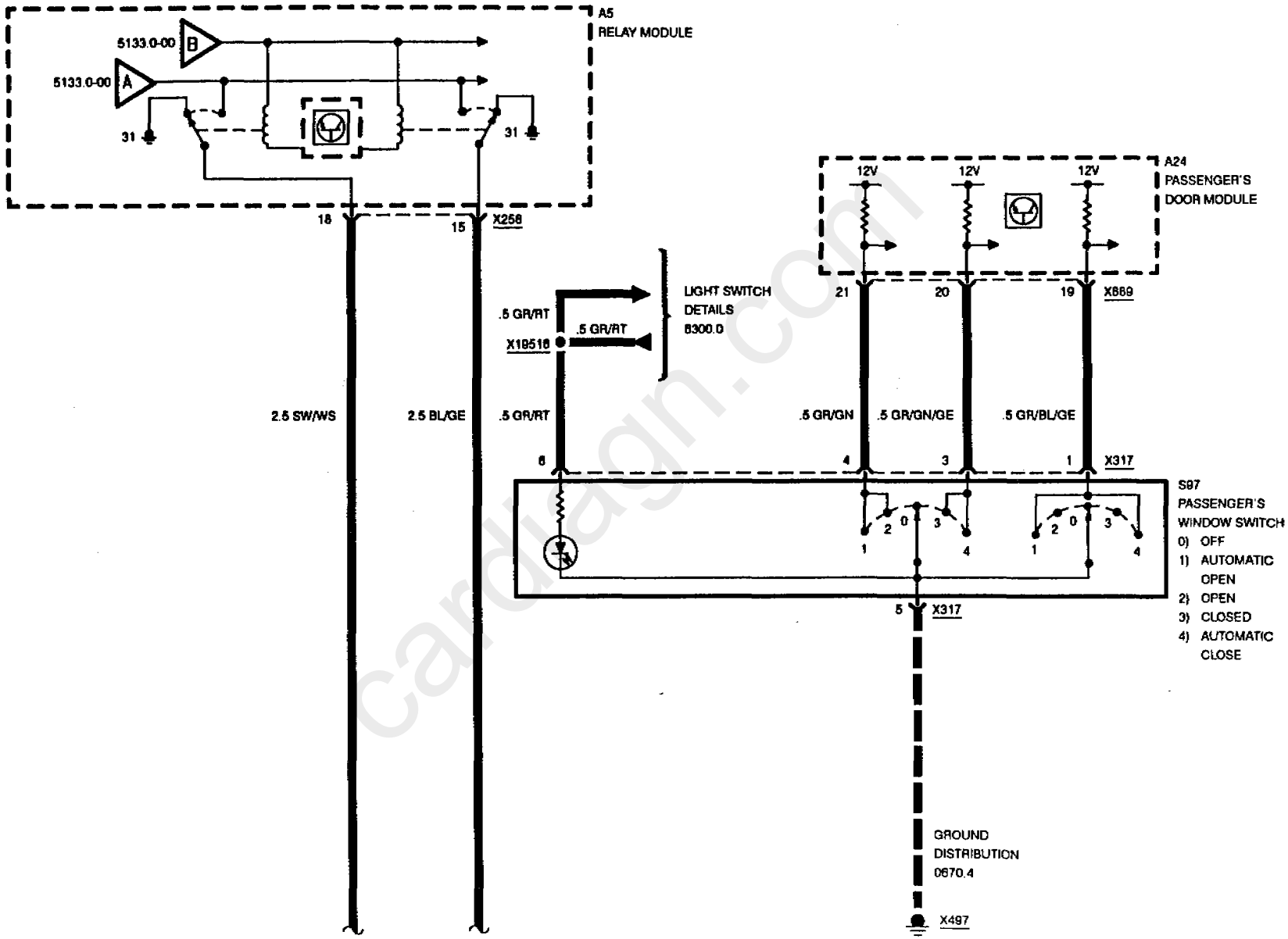


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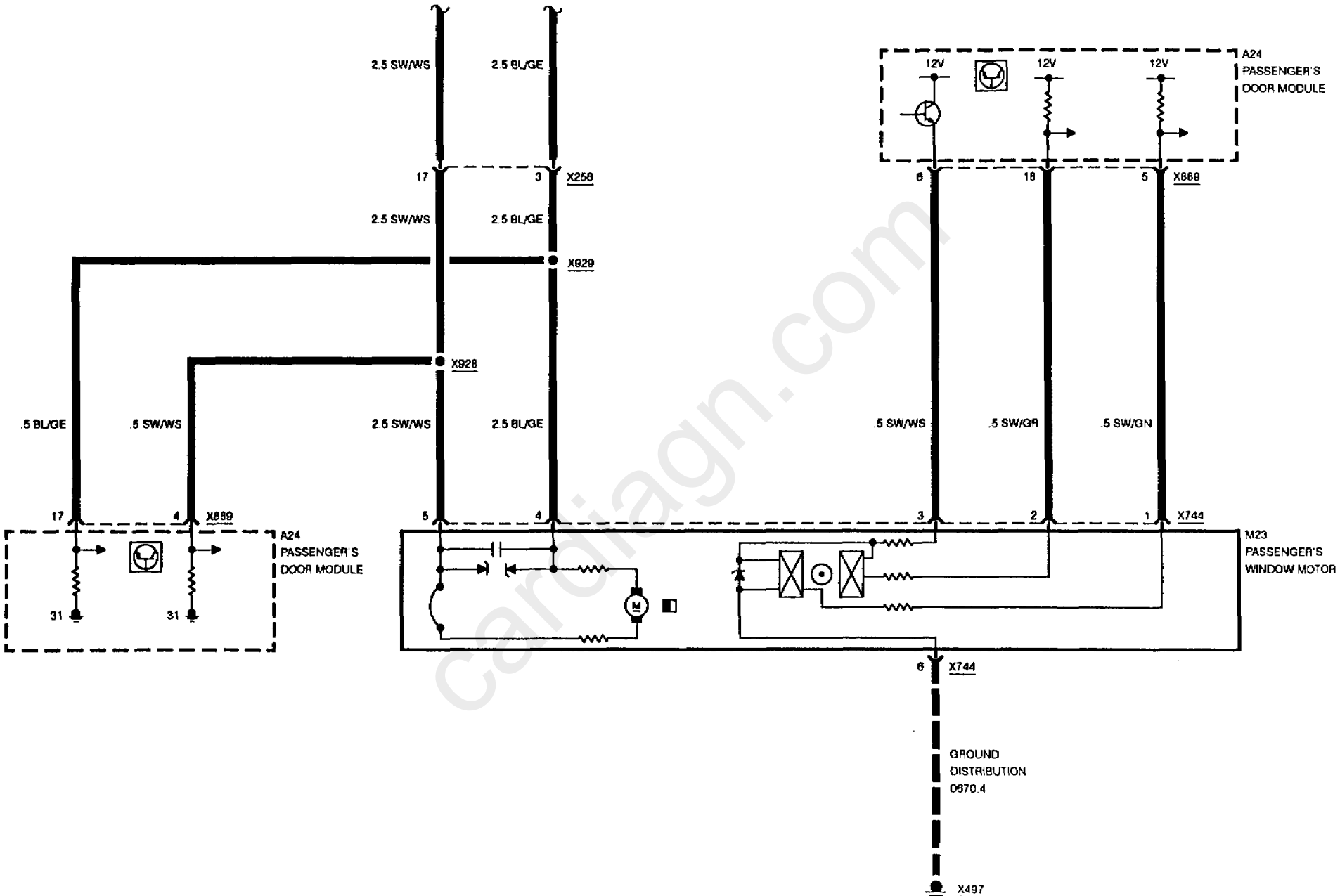


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ZKE POWER WINDOWS (FH)

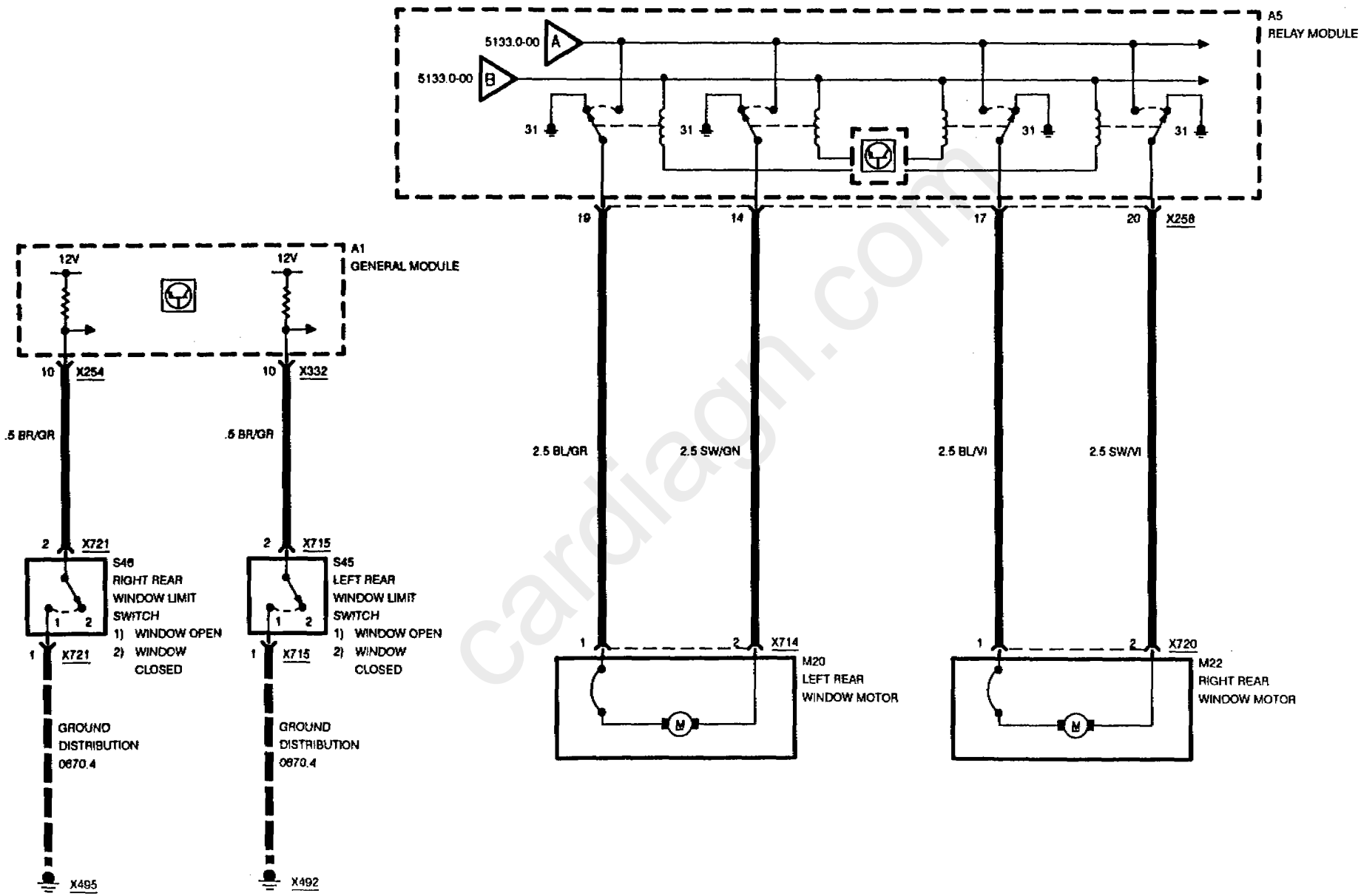


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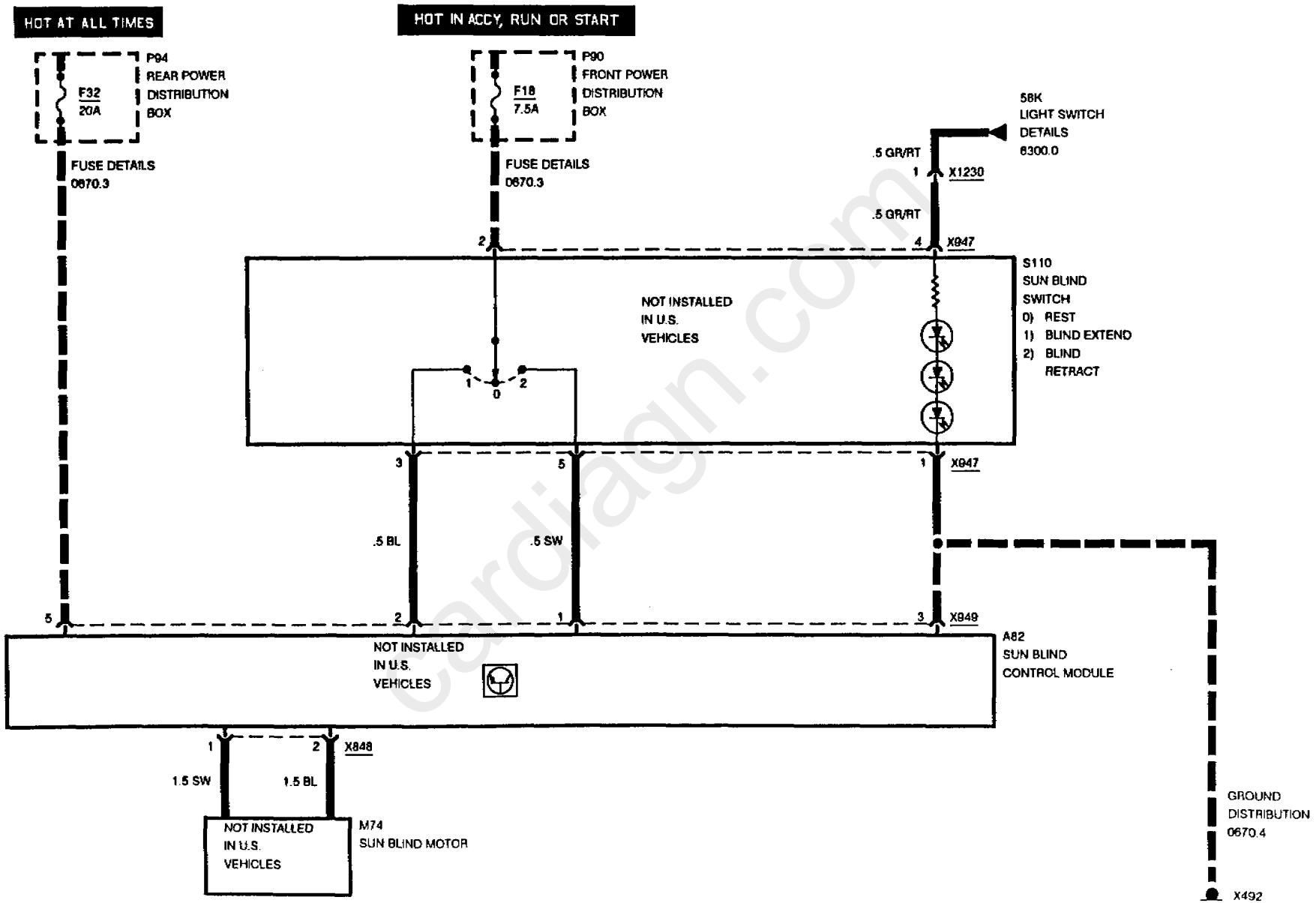
ZKE POWER WINDOWS (FH)



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POWER SUN SHADES

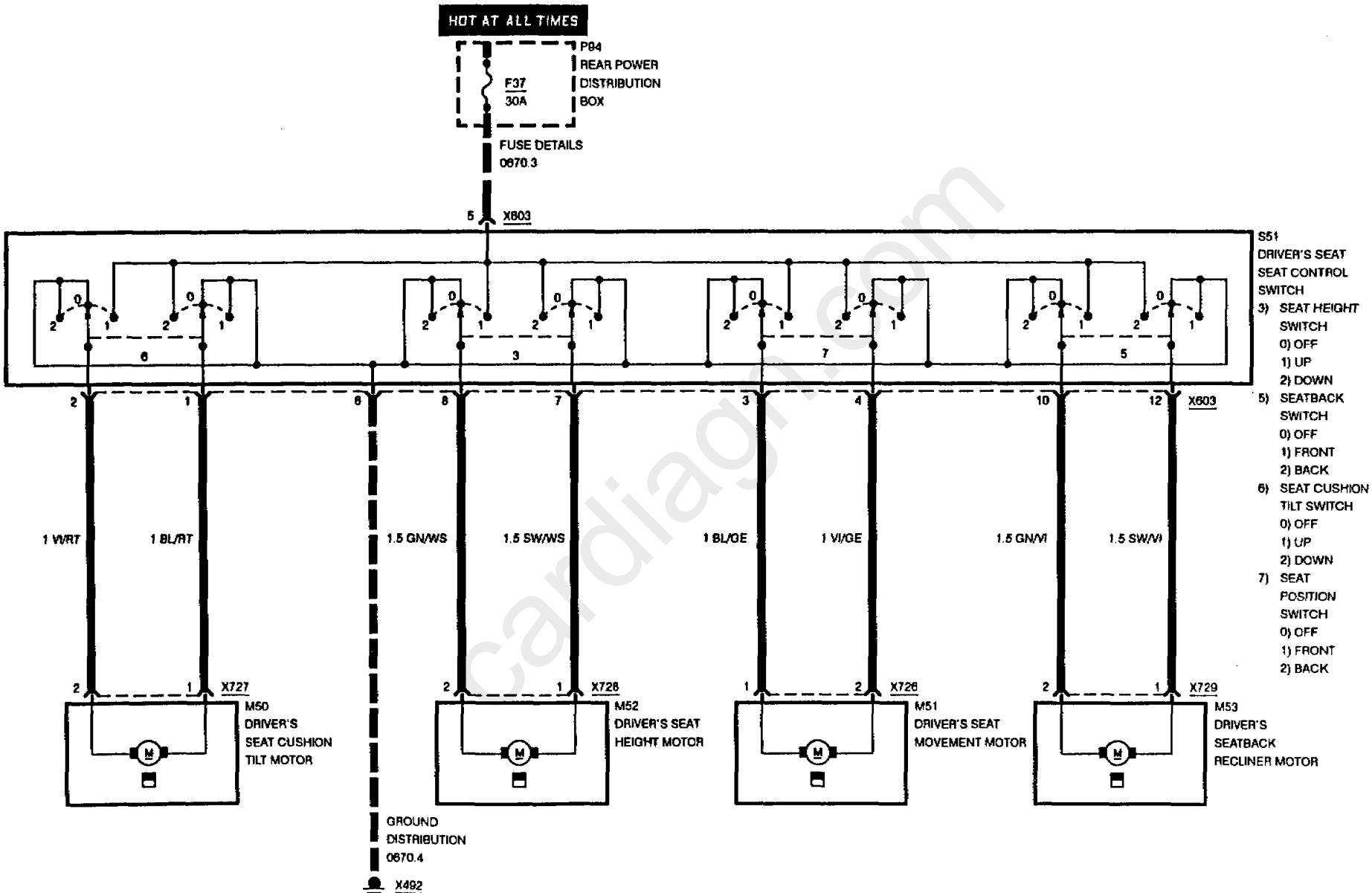


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POWER SEATS

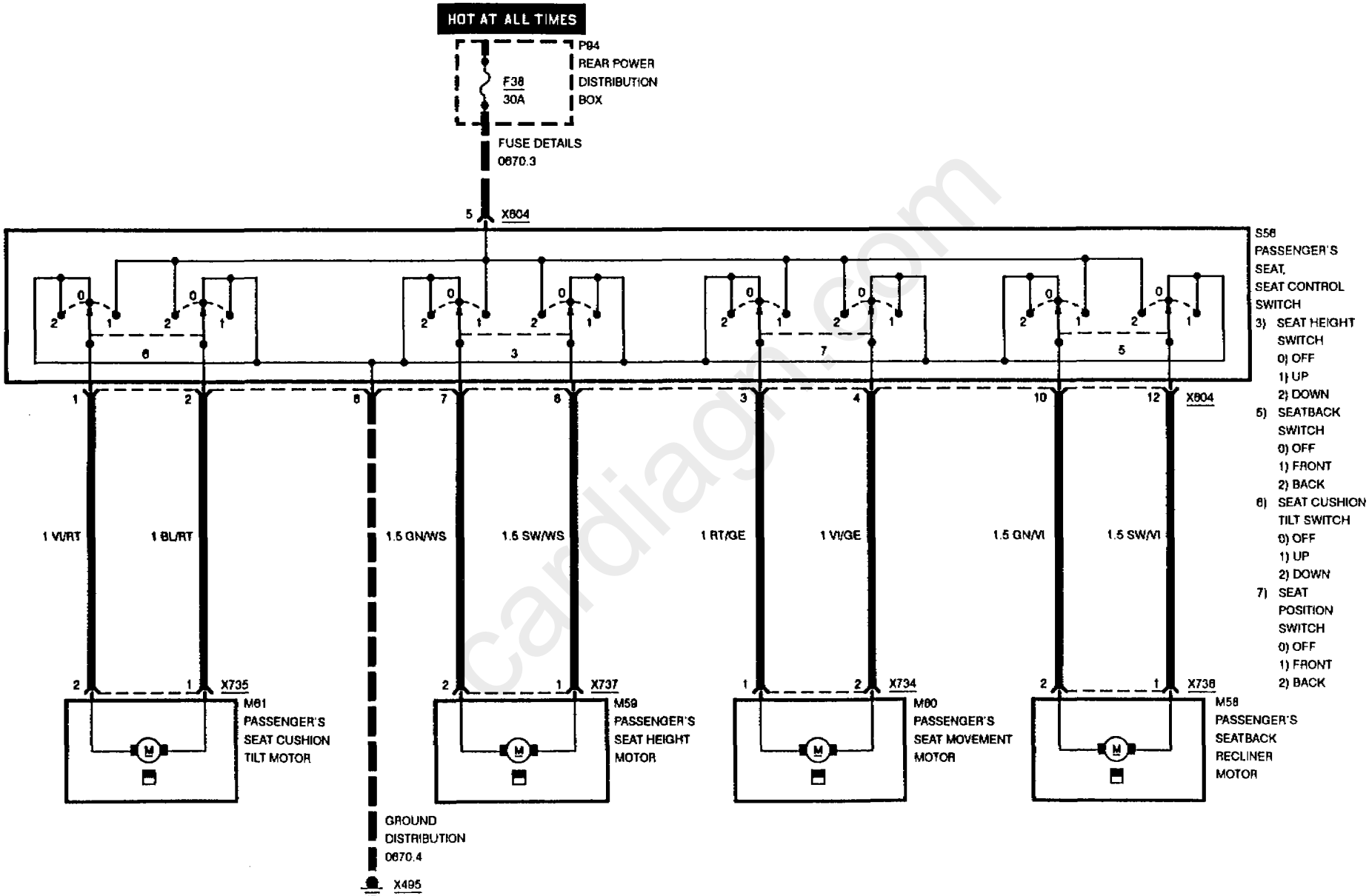
DRIVER'S SEAT



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POWER SEATS

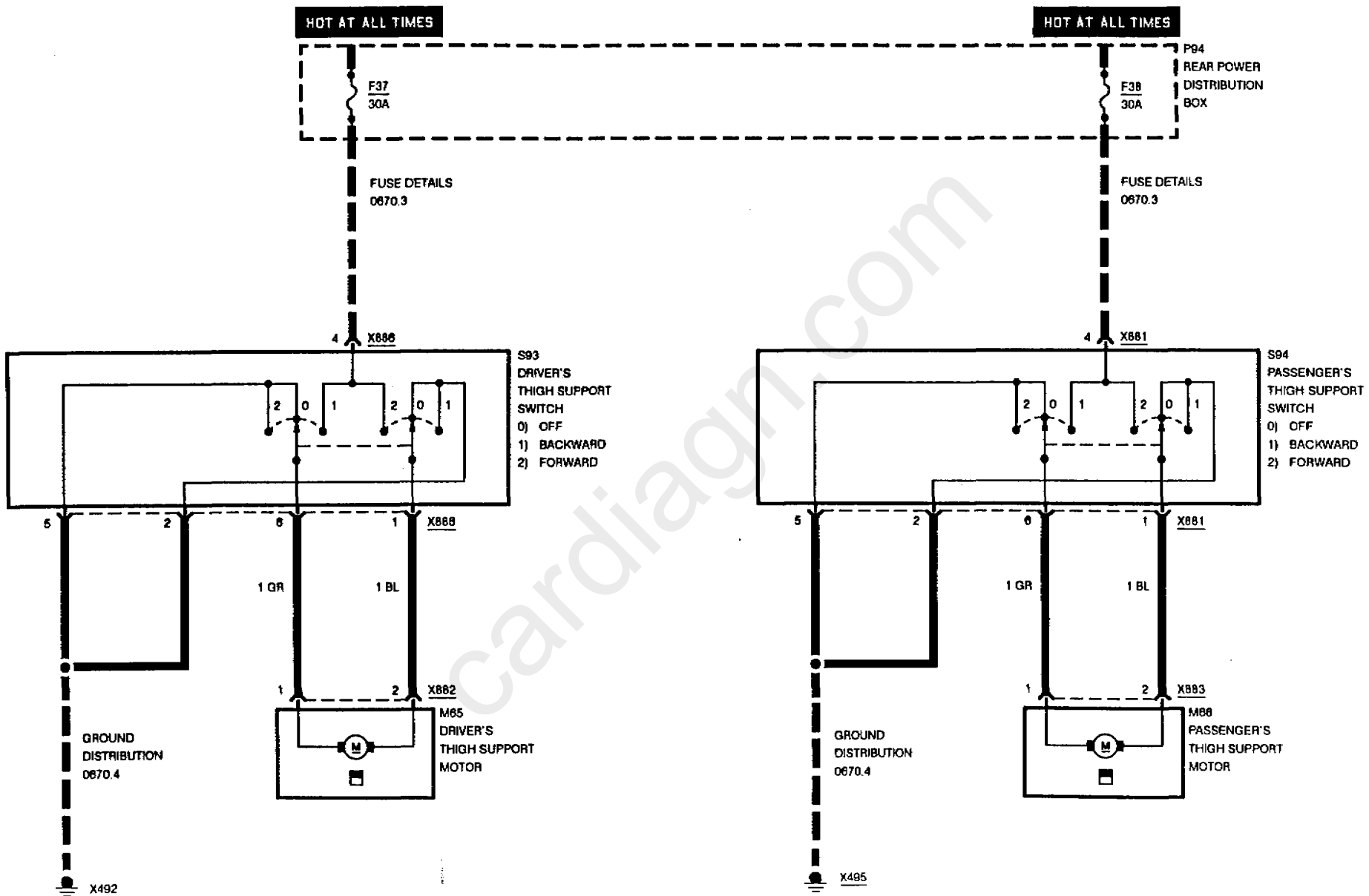
PASSENGER'S SEAT



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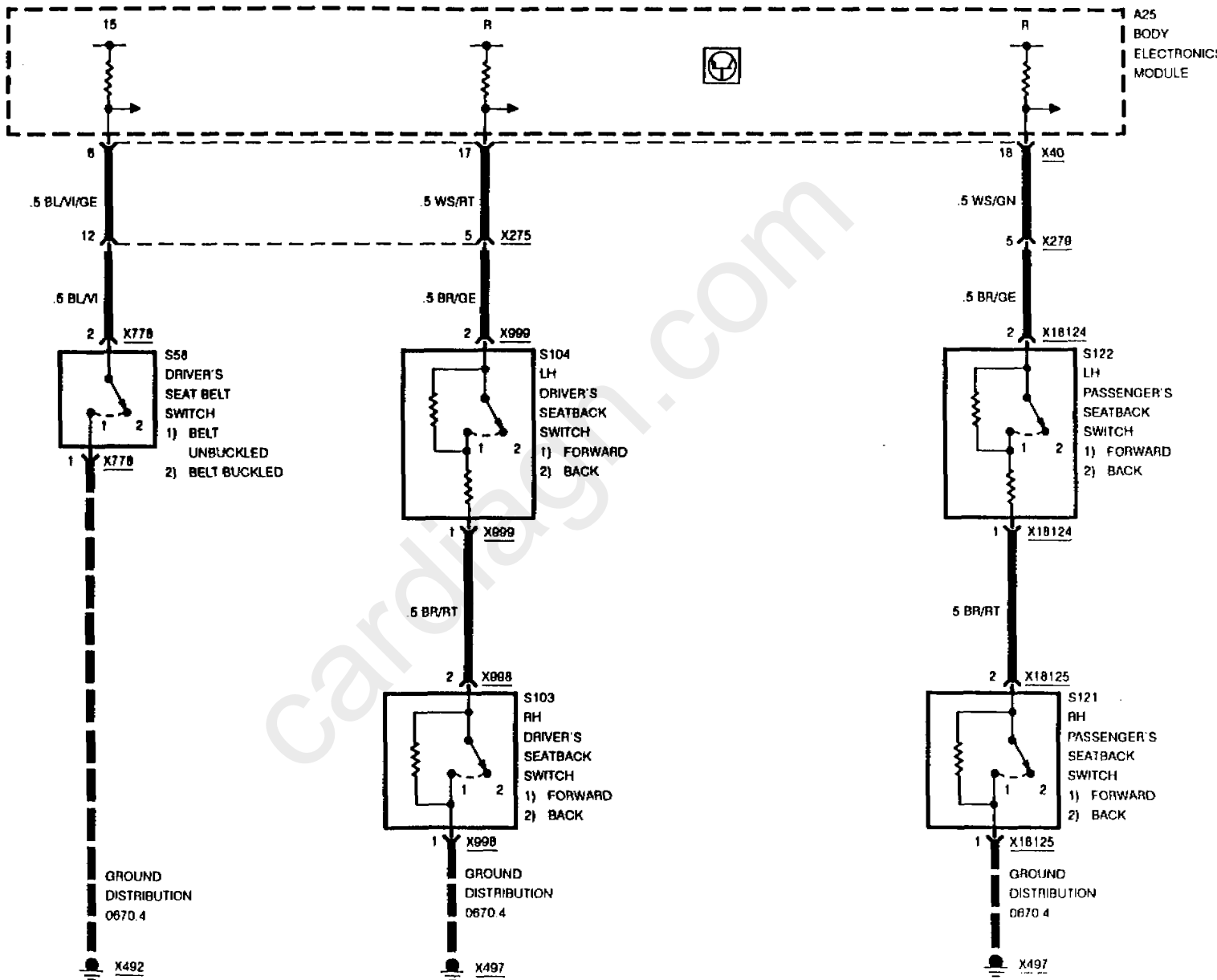
POWER SEATS

THIGH SUPPORT



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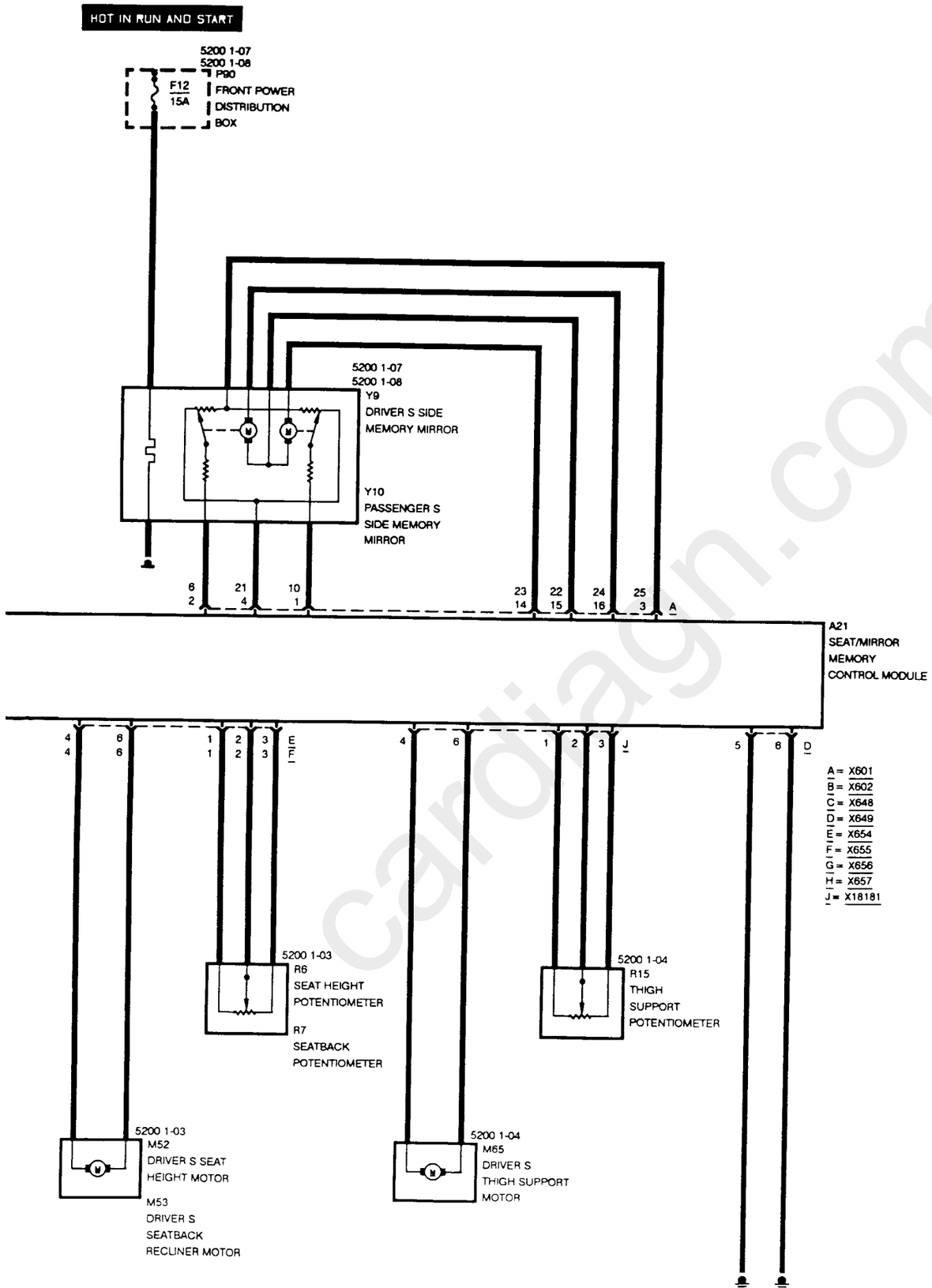
POWER SEATS



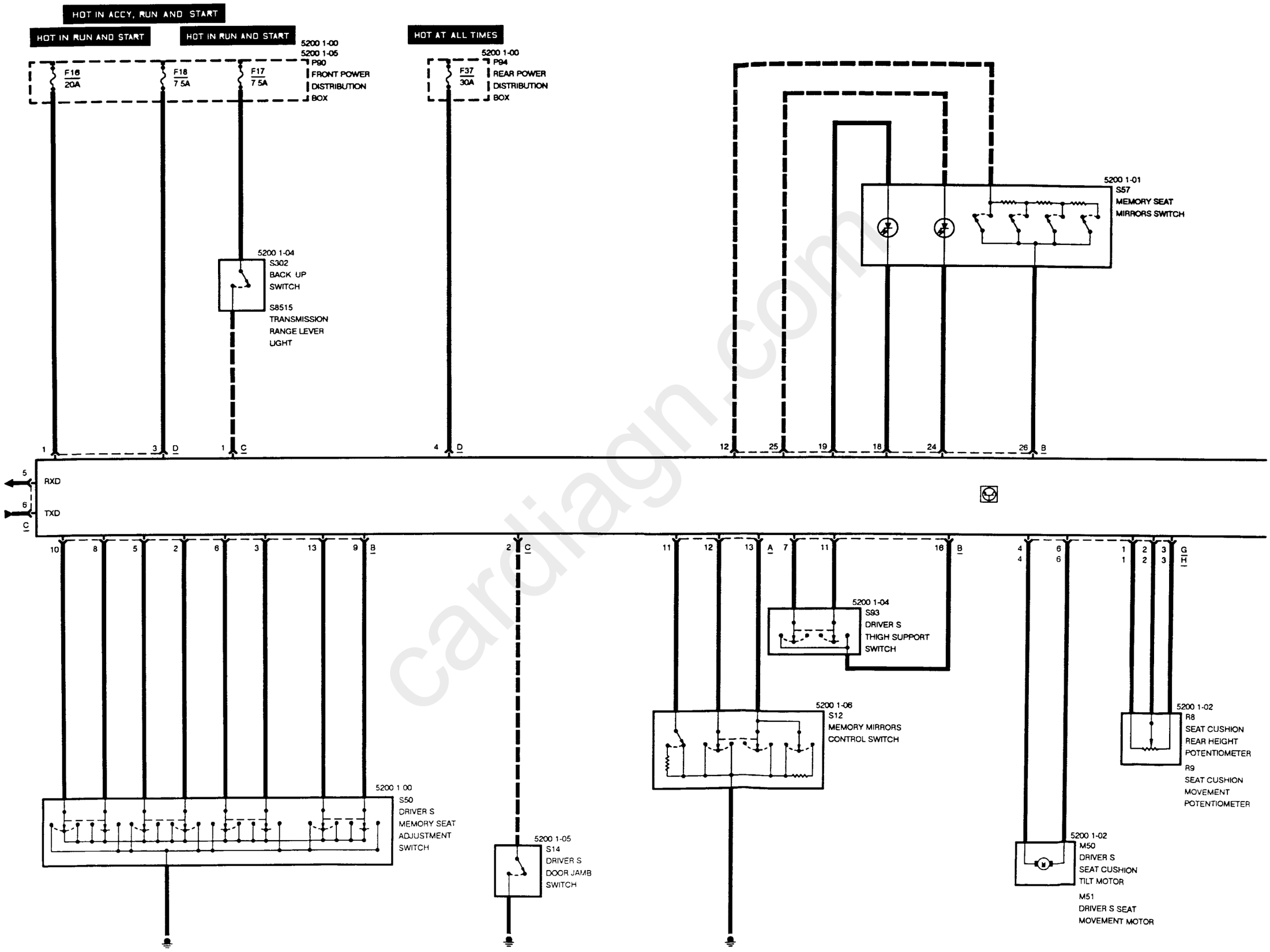
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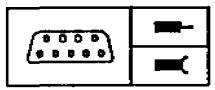
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HOT IN ACCY, RUN AND START
HOT IN RUN AND START
HOT IN RUN AND START
HOT AT ALL TIMES
5200 1-00
5200 1-05
P90
FRONT POWER DISTRIBUTION BOX
F16 20A
F18 7 5A
F17 7 5A
5200 1-00
P94
REAR POWER DISTRIBUTION BOX
F37 30A
5200 1-04
S302
BACK UP SWITCH
S8515
TRANSMISSION RANGE LEVER LIGHT
5200 1-01
S57
MEMORY SEAT MIRRORS SWITCH
RXD
TXD
5200 1 00
S50
DRIVER S MEMORY SEAT ADJUSTMENT SWITCH
5200 1-05
S14
DRIVER S DOOR JAMB SWITCH
5200 1-04
S93
DRIVER S THIGH SUPPORT SWITCH
5200 1-06
S12
MEMORY MIRRORS CONTROL SWITCH
5200 1-02
M50
DRIVER S SEAT CUSHION TILT MOTOR
M51
DRIVER S SEAT MOVEMENT MOTOR
5200 1-02
R8
SEAT CUSHION REAR HEIGHT POTENTIOMETER
R9
SEAT CUSHION MOVEMENT POTENTIOMETER



Pin Assignments

A=X601 26 pins, white
B=X602 26 pins, yellow
C=X648 6 pins, black
D=X649 6 pins, white
E=X654 6 pins
F=X655 6 pins, blue
G=X656 6 pins
H=X657 6 pins, brown
J=X18181 6 pins

X601

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	E	Potentiometer connection	Driver's mirror	0–4,5 Volt	Voltage value	
2	E	Potentiometer connection	Driver's mirror	0–4,5 Volt	Voltage value	
3	E	Potentiometer connection	Driver's mirror	0–4,5 Volt	Voltage value	
4	M	Ground	Driver's mirror			
5		Not used				
6	E	Potentiometer connection	Passenger's mirror	0–4,5 Volt	Voltage value	
7		Not used				
8		Not used				
9		Not used				

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SEAT/MIRROR MEMORY SYSTEM (SM/SPM)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
10	E	Potentiometer connection	Passenger's mirror	0–4,5 Volt	Voltage value	
11	E	Mirror adjustment	Mirror adjustment switch	Ground	Status display	
12	E	Mirror adjustment	Mirror adjustment switch	Ground	Status display	
13	E	Mirror adjustment	Mirror adjustment switch	Ground	Status display	
14	A	Connection, driver's mirror adjustment motor	Mirror adjustment motor	12 Volt	Voltage value	
15	A	Connection, driver's mirror adjustment motor	Mirror adjustment motor	12 Volt	Voltage value	
16	A	Connection, driver's mirror adjustment motor	Mirror adjustment motor	12 Volt	Voltage value	
17		Not used				
18		Not used				
19		Not used				
20		Not used				
21	E	Potentiometer connection	Passenger's mirror	0–4,5 Volt	Voltage value	
22	A	Connection, passenger's mirror adjustment motor	Passenger's mirror adjustment motor	12 Volt	Voltage value	
23	A	Connection, passenger's mirror adjustment motor	Passenger's mirror adjustment motor	12 Volt	Voltage value	
24	A	Connection, passenger's mirror adjustment motor	Passenger's mirror adjustment motor	12 Volt	Voltage value	
25	E	Potentiometer connection	Passenger's mirror	0–4,5 Volt	Voltage value	
26		Not used				

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SEAT/MIRROR MEMORY SYSTEM (SM/SPM)

X602

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1		Not used				
2	E	Tilt down	Seat adjustment switch	Ground	Status display	
3	E	Height down	Seat adjustment switch	Ground	Status display	
4		Not used				
5	E	Tilt up	Seat adjustment switch	Ground	Status display	
6	E	Height up	Seat adjustment switch	Ground	Status display	
7	E	Thigh support, backward	Thigh support switch	Ground	Status display	
8	E	Seat movement back	Seat adjustment switch	Ground	Status display	
9	E	Backrest back	Seat adjustment switch	Ground	Status display	
10	E	Seat movement forward	Seat adjustment switch	Ground	Status display	
11	E	Thigh support, forward	Thigh support switch	Ground	Status display	
12	E	Memory switch Pin 1	Memory switch	Ground	Status display	
13	E	Backrest forward	Seat adjustment switch	Ground	Status display	
14		Not used				
15		Not used				
16	E	Ground	Thigh support switch			
17		Not used				
18	A	Lights	Memory switch	12 Volt		
19	A	Lights	Memory switch	12 Volt		
20		Not used				
21		Not used				

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SEAT/MIRROR MEMORY SYSTEM (SM/SPM)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
22		Not used				
23		Not used				
24	E	Memory switch connection	Memory switch	Ground		
25	E	Memory switch connection	Memory switch	Ground		
26	E	Memory switch connection	Memory switch	Ground		

X648

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	E	Reverse gear signal	Back up switch			
2	E	Drivers door status	Drivers door jamb switch			
3		Not used				
4		Not used				
5	A	Diagnosis (RxD)	Diagnosis connector			
6	E	Diagnosis (TxD)	Diagnosis connector			

X649

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	E	Terminal 15 voltage	Fuse			
2		Not used				
3	E	Terminal R voltage	Fuse			
4	E	Terminal 30 voltage	Fuse			

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Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
5	M	Ground	Ground point			
6	M	Ground	Ground point			

X654

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	A	Potentiometer voltage	Drivers seat height pot.			
2	E	Seat height position signal	Drivers seat height pot.			
3	M	Ground	Drivers seat height pot.			
4	E/A	Motor voltage/ground	Drivers seat height motor			
5		Not used				
6	E/A	Motor voltage/ground	Drivers seat height motor			

X655

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	A	Potentiometer voltage	Drivers seatback pot.			
2	E	Seat back position signal	Drivers seatback pot.			
3	M	Ground	Drivers seatback pot.			
4	E/A	Motor voltage/ground	Drivers seatback recliner motor			
5		Not used				
6	E/A	Motor voltage/ground	Drivers seatback recliner motor			

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SEAT/MIRROR MEMORY SYSTEM (SM/SPM)

X656

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	A	Potentiometer voltage	Drivers seat rear height pot.			
2	E	Seat rear height signal	Drivers seat rear height pot.			
3	M	Ground	Drivers seat rear height pot.			
4	E/A	Motor voltage/ground	Drivers seat cushion tilt motor			
5		Not used				
6	E/A	Motor voltage/ground	Drivers seat cushion tilt motor			

X657

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	A	Potentiometer voltage	Drivers seat potentiometer			
2	E	Seat cushion position signal	Drivers seat potentiometer			
3	M	Ground	Drivers seat potentiometer			
4	E/A	Motor voltage/ground	Drivers seat movement motor			
5		Not used				
6	E/A	Motor voltage/ground	Drivers seat movement motor			

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SEAT/MIRROR MEMORY SYSTEM (SM/SPM)

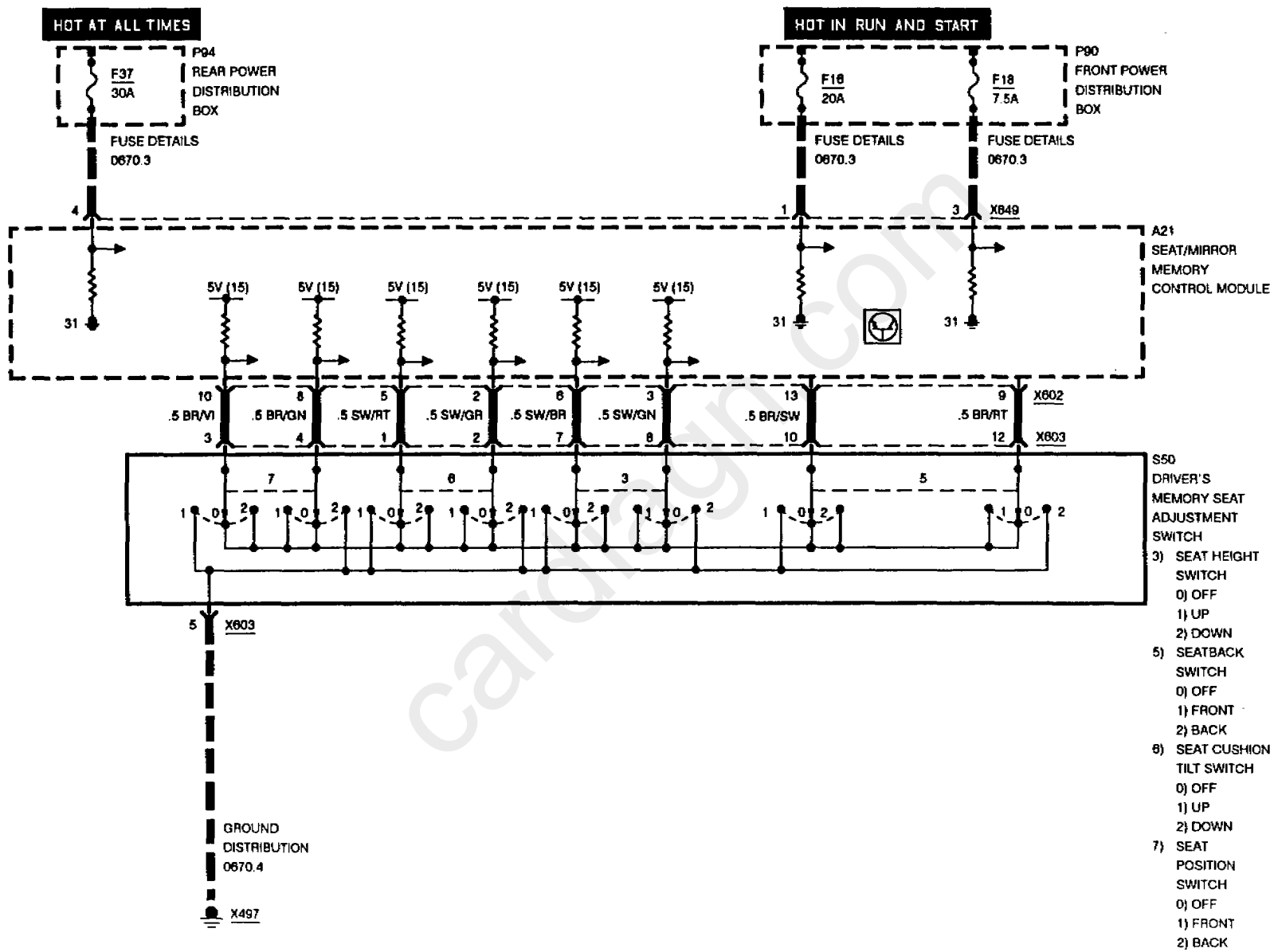
X18181

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	A	Potentiometer voltage	Drivers seat thigh support pot.			
2	E	Thigh support position signal	Drivers seat thigh support pot.			
3	M	Ground	Drivers seat thigh support pot.			
4	E/A	Motor voltage/ground	Drivers seat thigh support motor			
5		Not used				
6	E/A	Motor voltage/ground	Drivers seat thigh support motor			

E = Input, A = Output, M = Ground

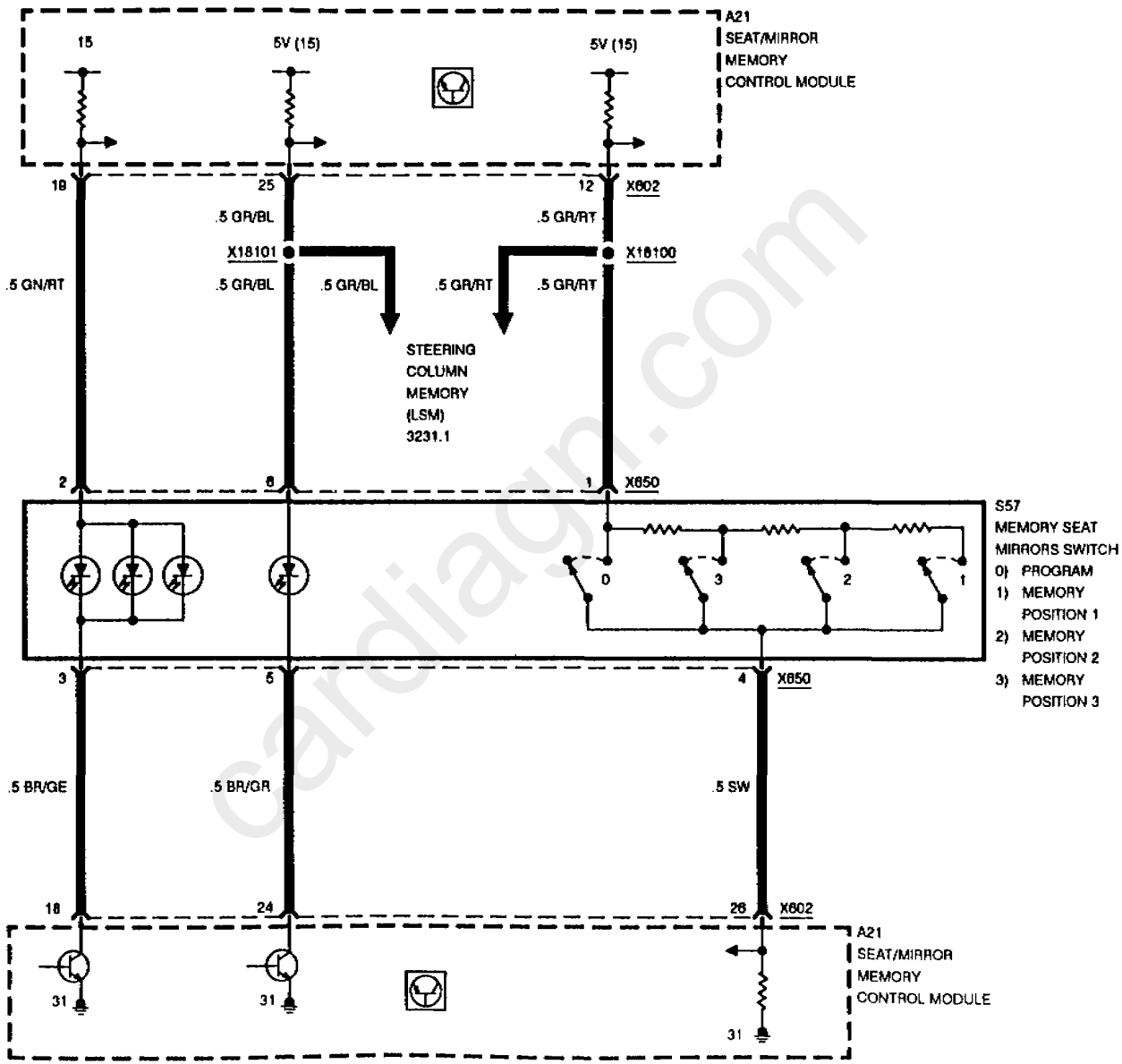
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SEAT/MIRROR MEMORY SYSTEM (SM/SPM)



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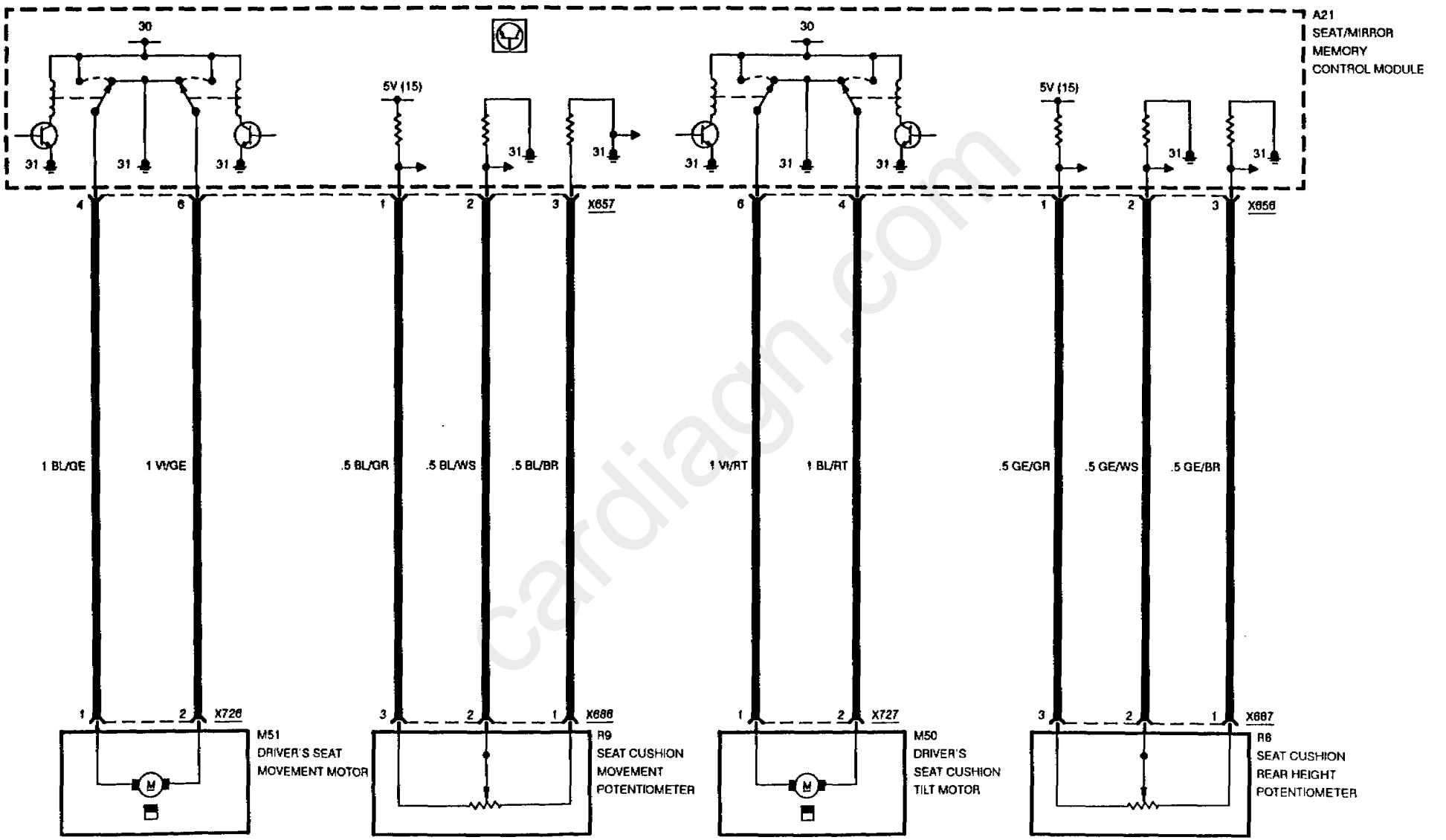
SEAT/MIRROR MEMORY SYSTEM (SM/SPM)



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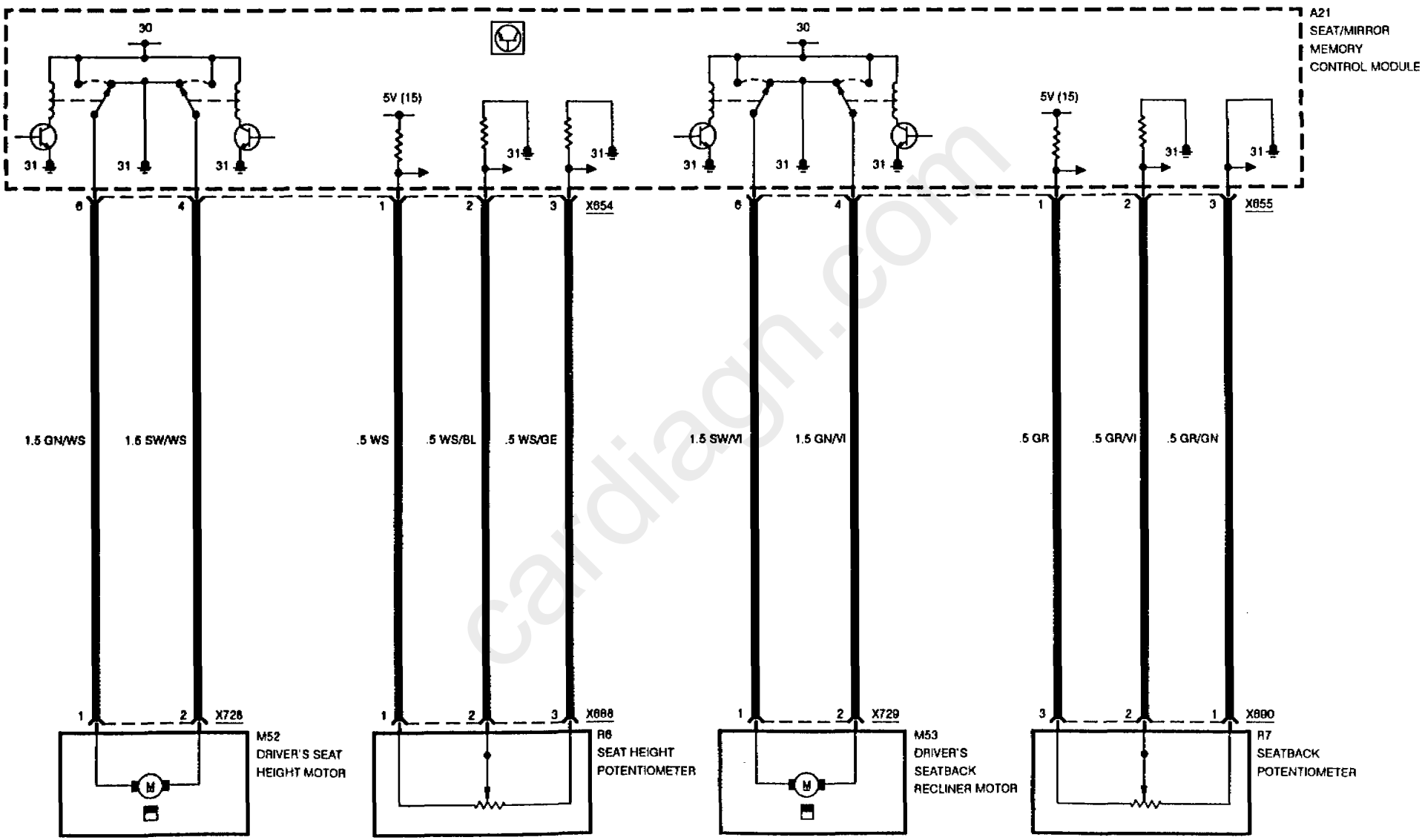
SEAT



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SEAT/MIRROR MEMORY SYSTEM (SM/SPM)

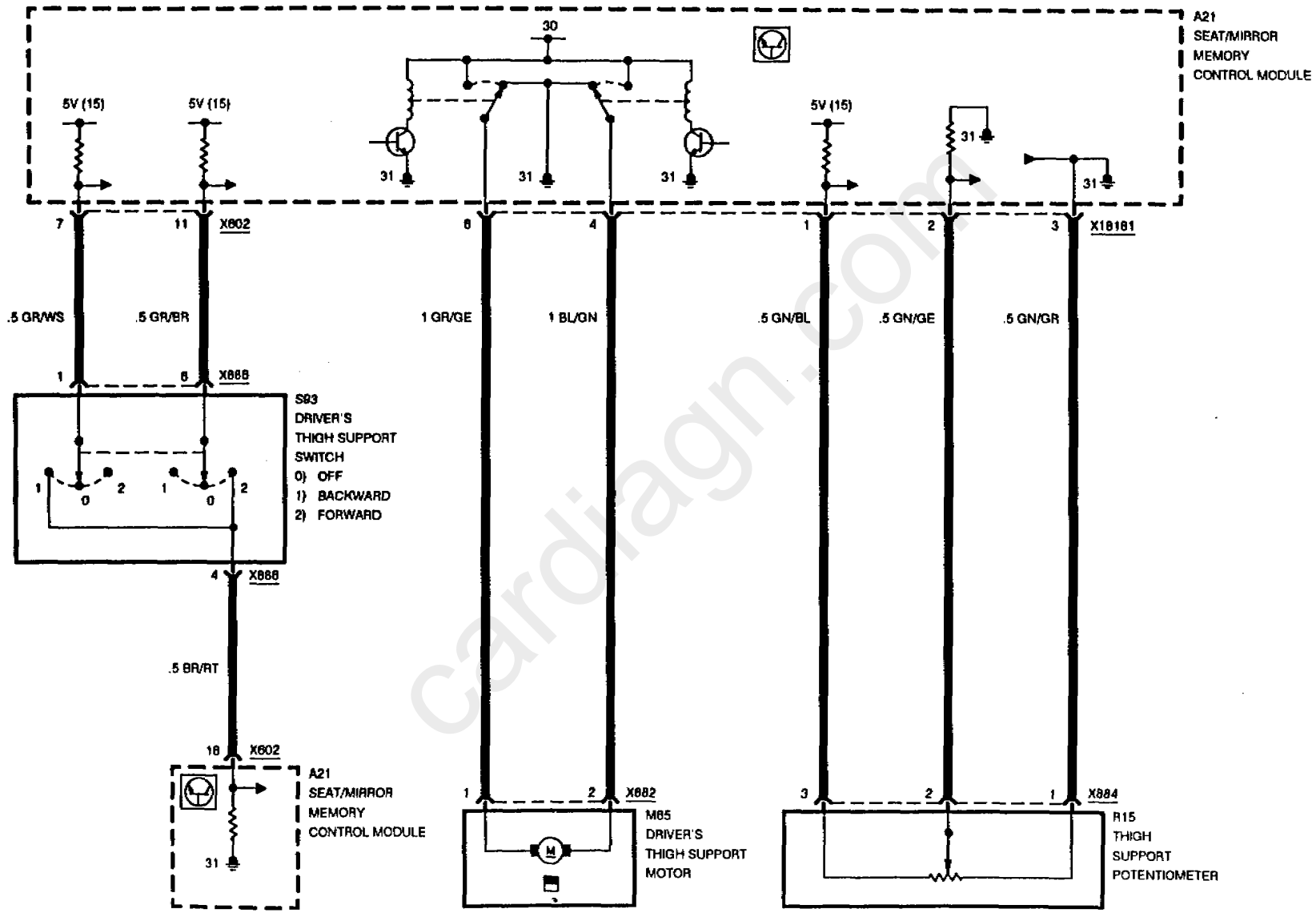
SEAT



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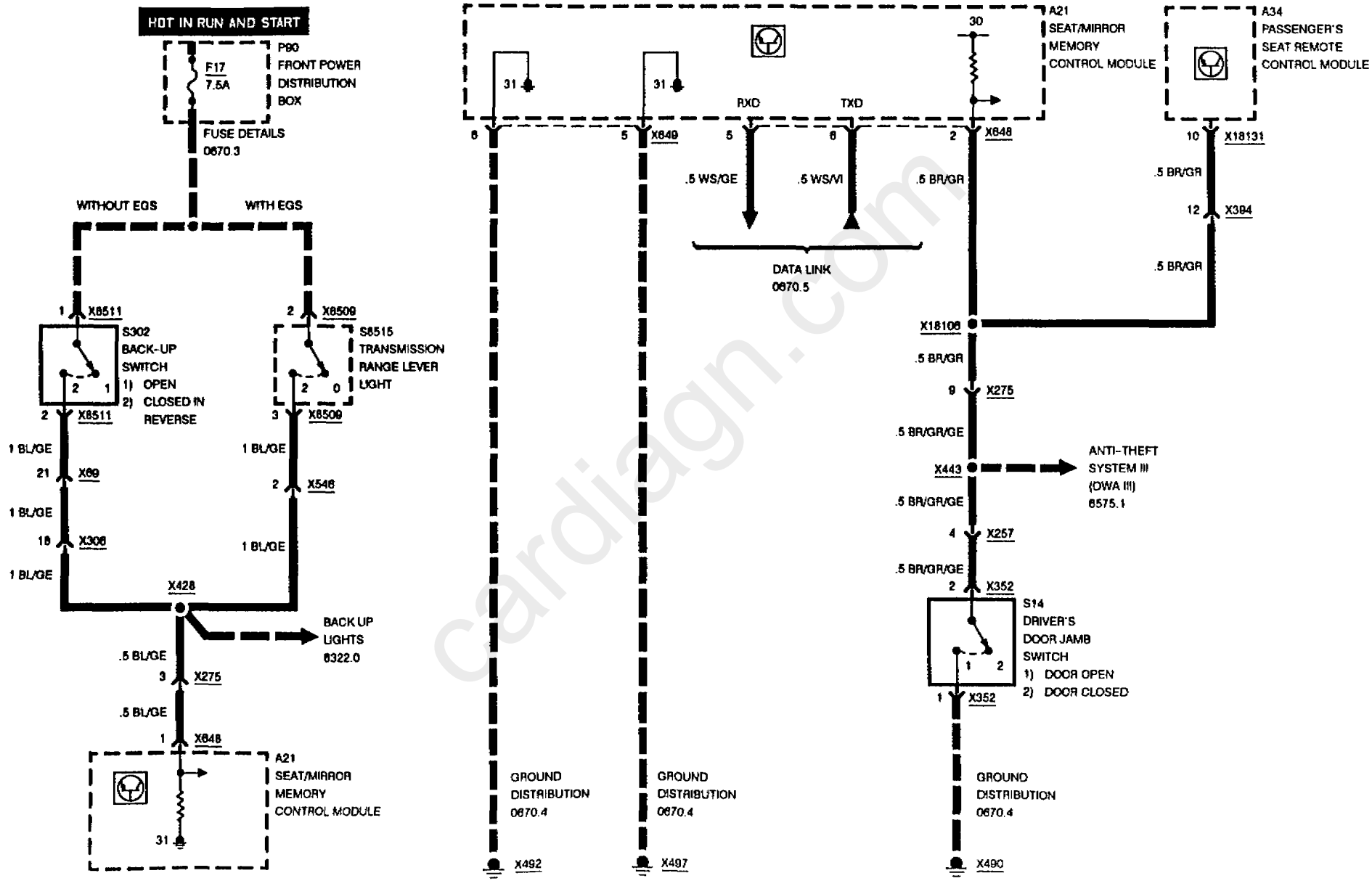
SEAT/MIRROR MEMORY SYSTEM (SM/SPM)

WITH SPORT SEAT



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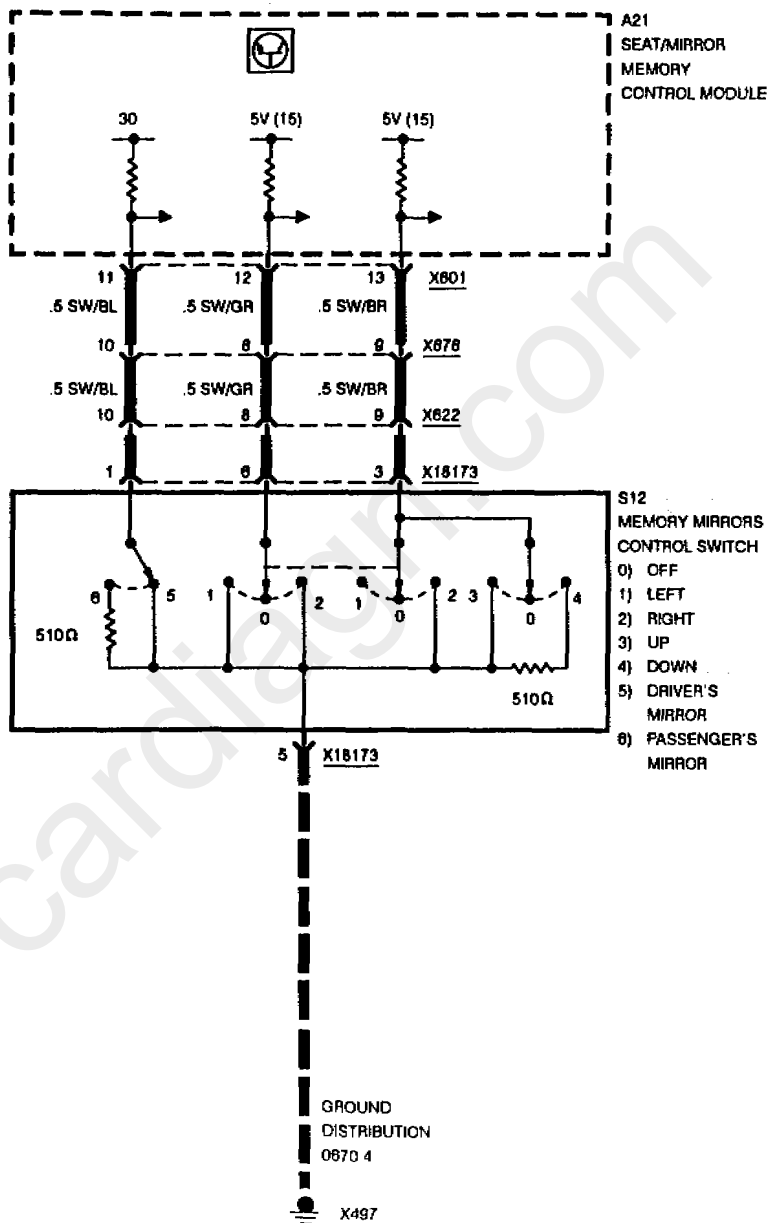
SEAT/MIRROR MEMORY SYSTEM (SM/SPM)



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SEAT/MIRROR MEMORY SYSTEM (SM/SPM)

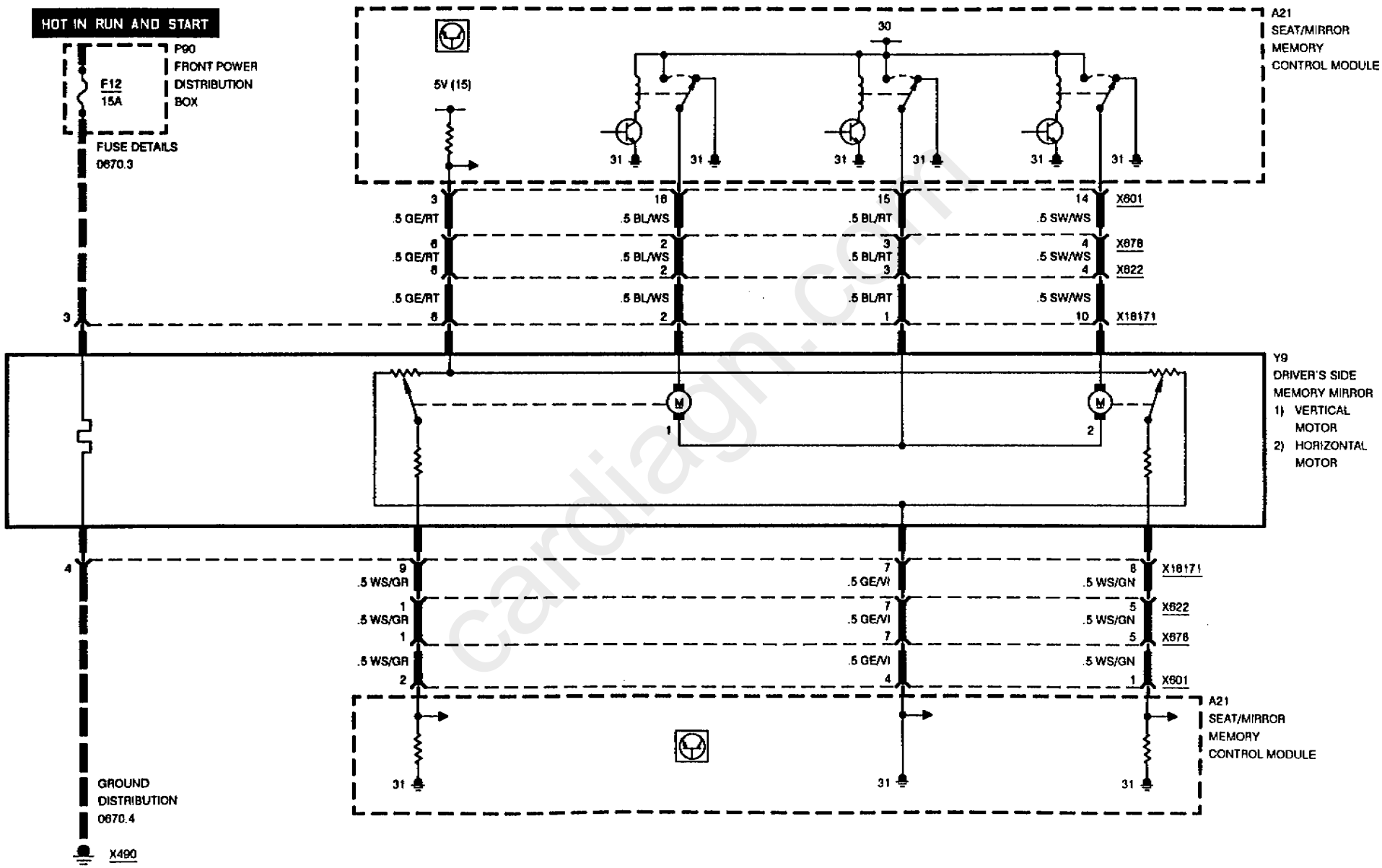
MIRROR



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SEAT/MIRROR MEMORY SYSTEM (SM/SPM)

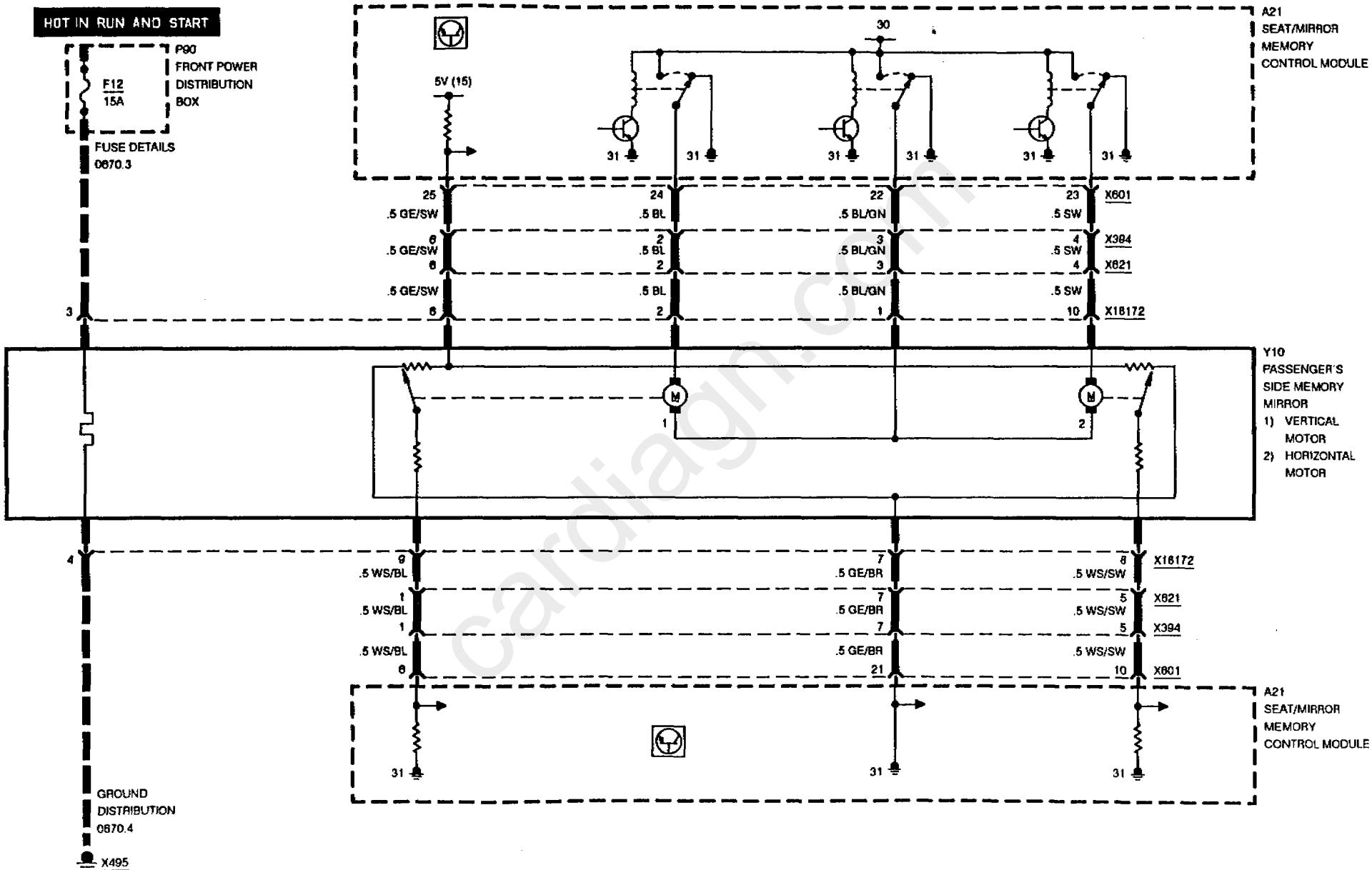
MIRROR



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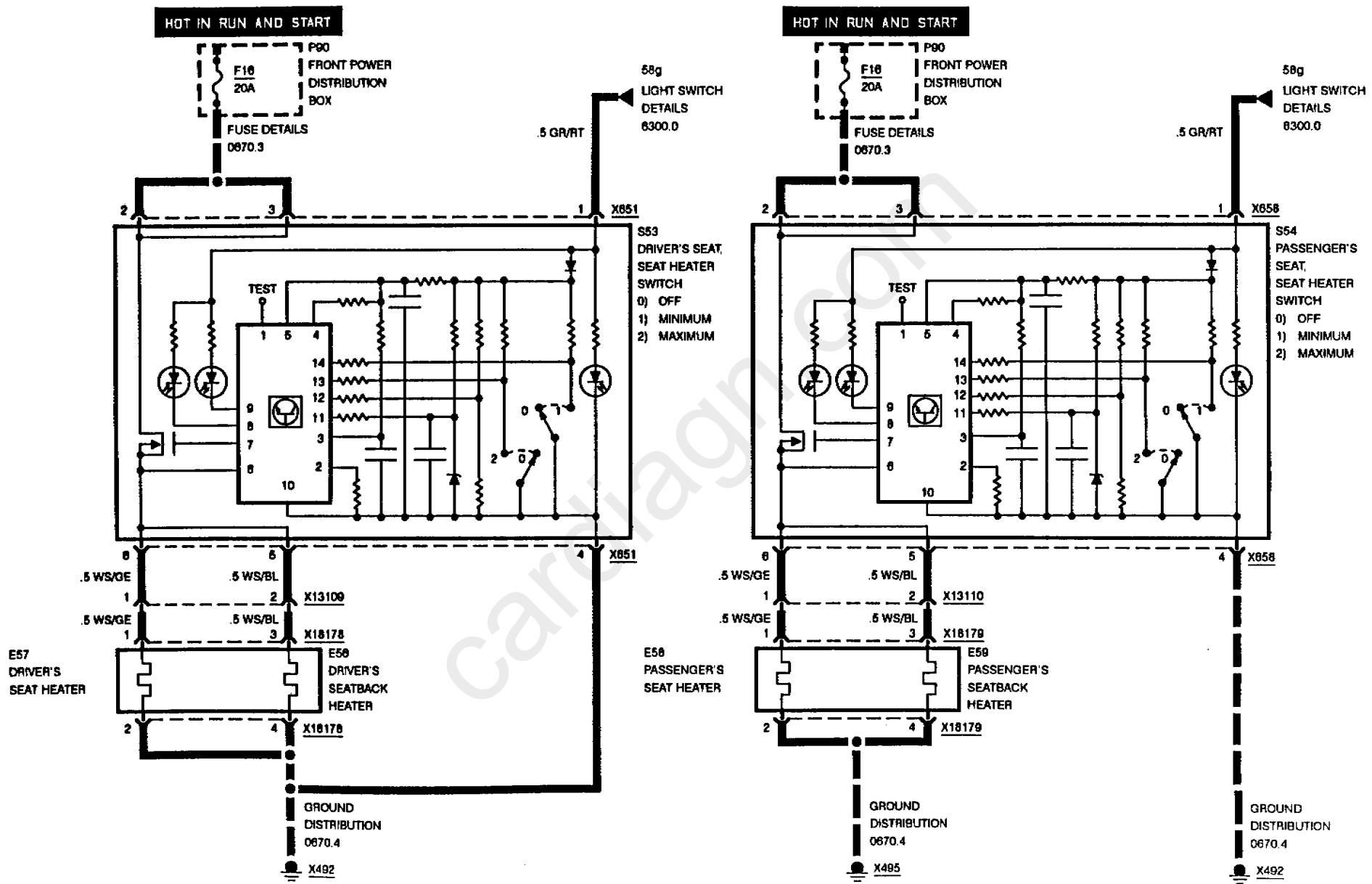
MIRROR



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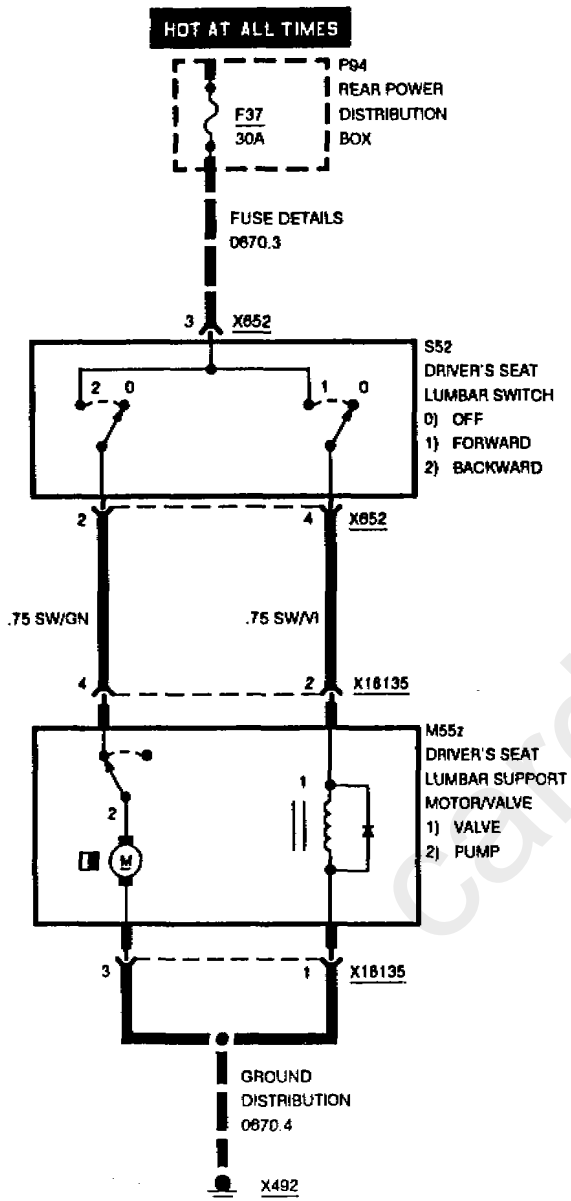
HEATED SEATS

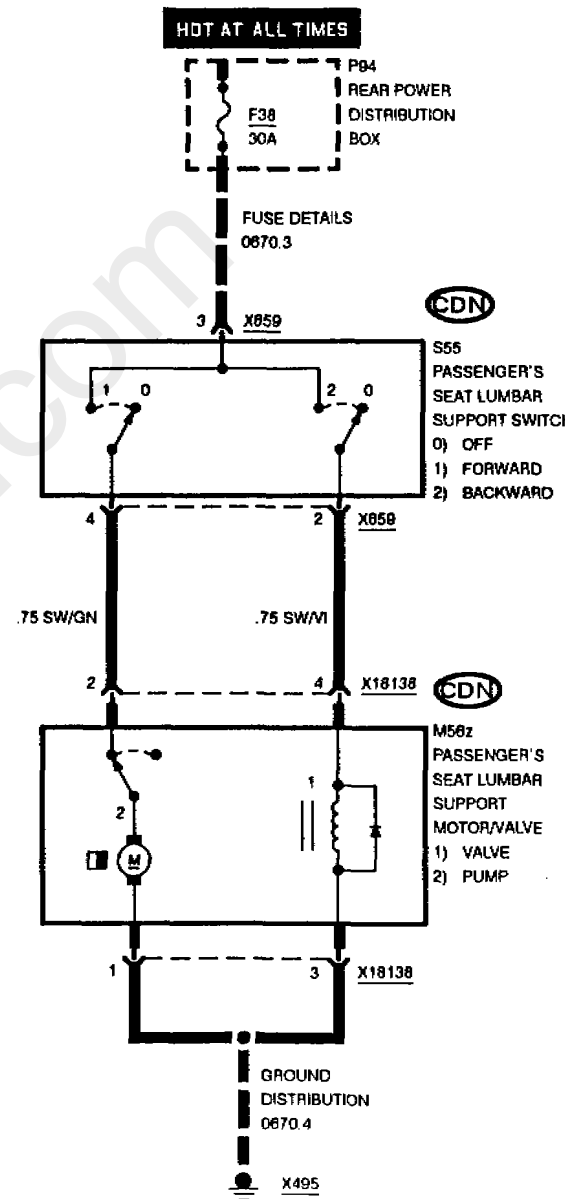


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LUMBAR SUPPORT

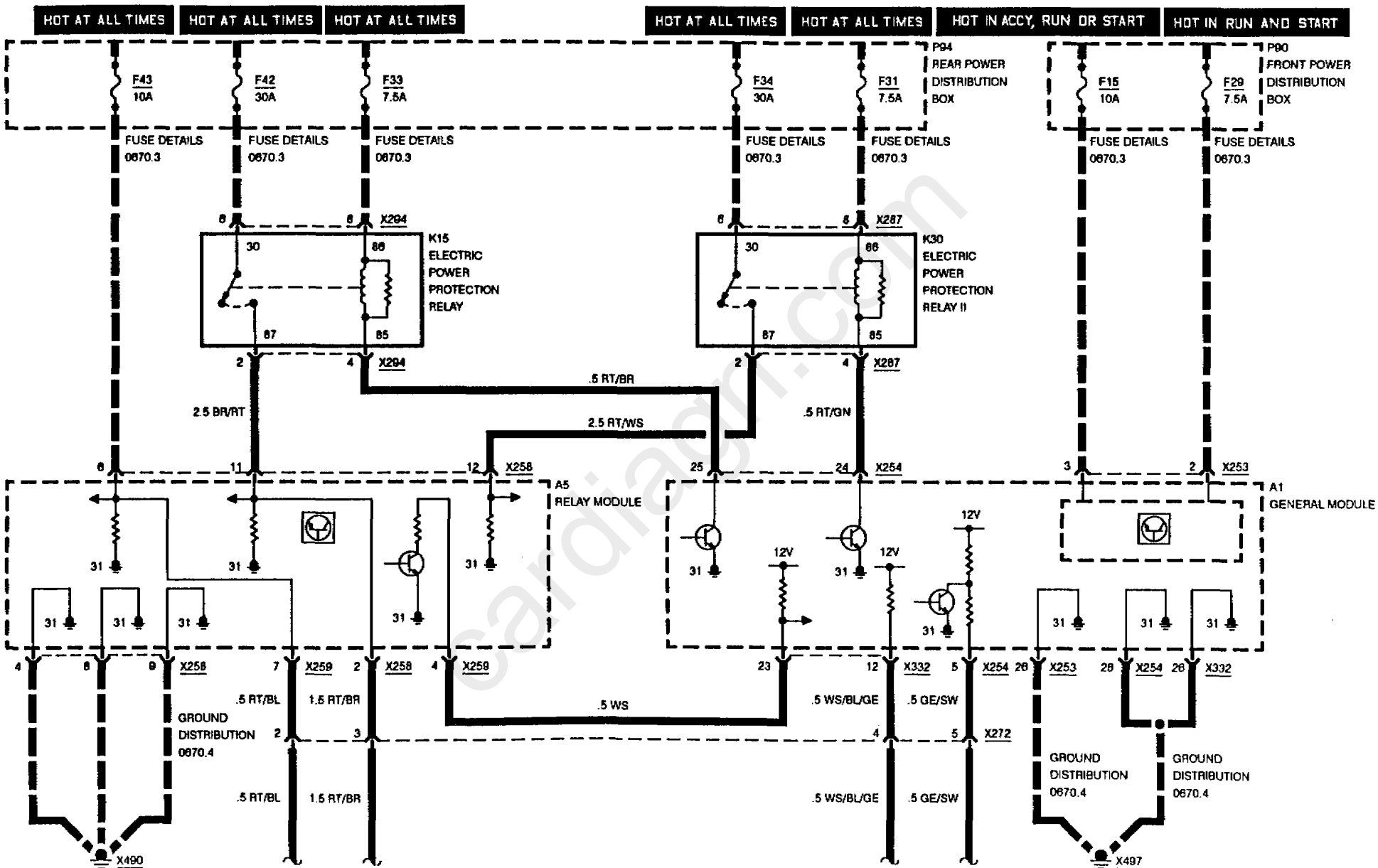




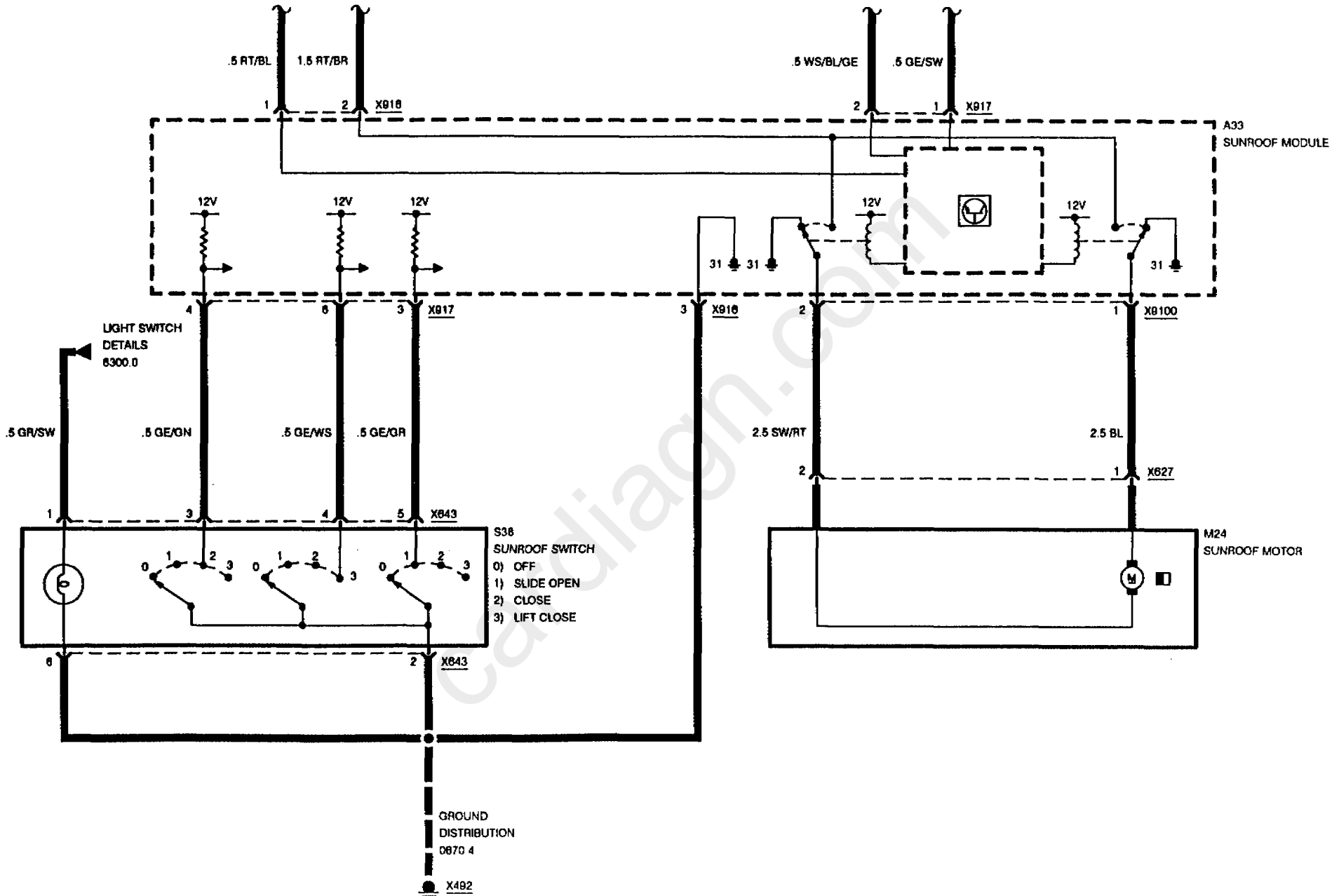
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ZKE SUNROOF (SHD)



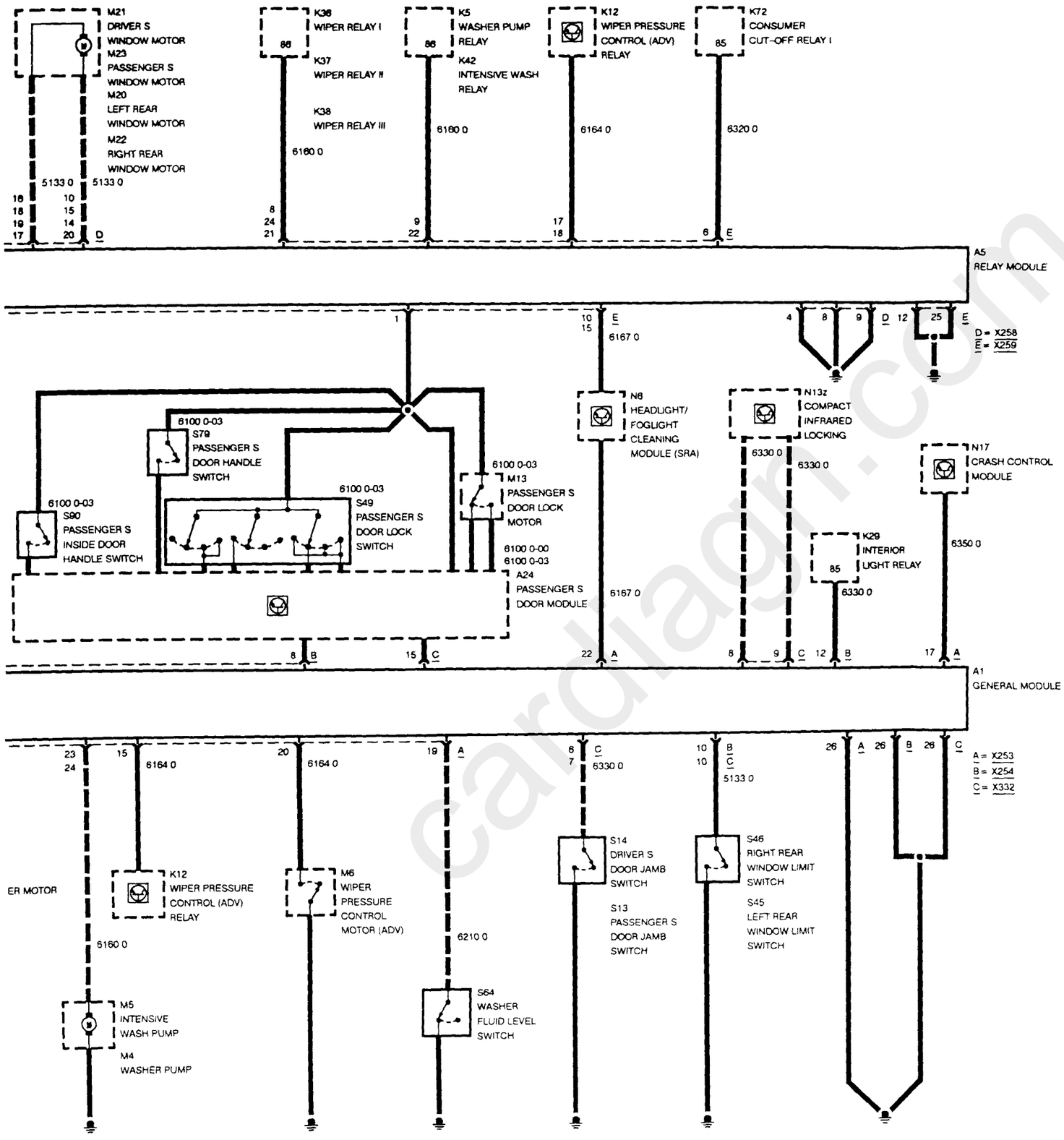
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.5 RT/BL
1.5 RT/BR
X918
.5 WS/BL/GE
.5 GE/SW
X917
A33
SUNROOF MODULE
12V
31
X917
X918
X9100
LIGHT SWITCH
DETAILS
6300.0
.5 GR/SW
.5 GE/GN
.5 GE/WS
.5 GE/GR
2.5 SW/RT
2.5 BL
X627
X643
S38
SUNROOF SWITCH
0) OFF
1) SLIDE OPEN
2) CLOSE
3) LIFT CLOSE
M24
SUNROOF MOTOR
GROUND
DISTRIBUTION
0670.4
X492

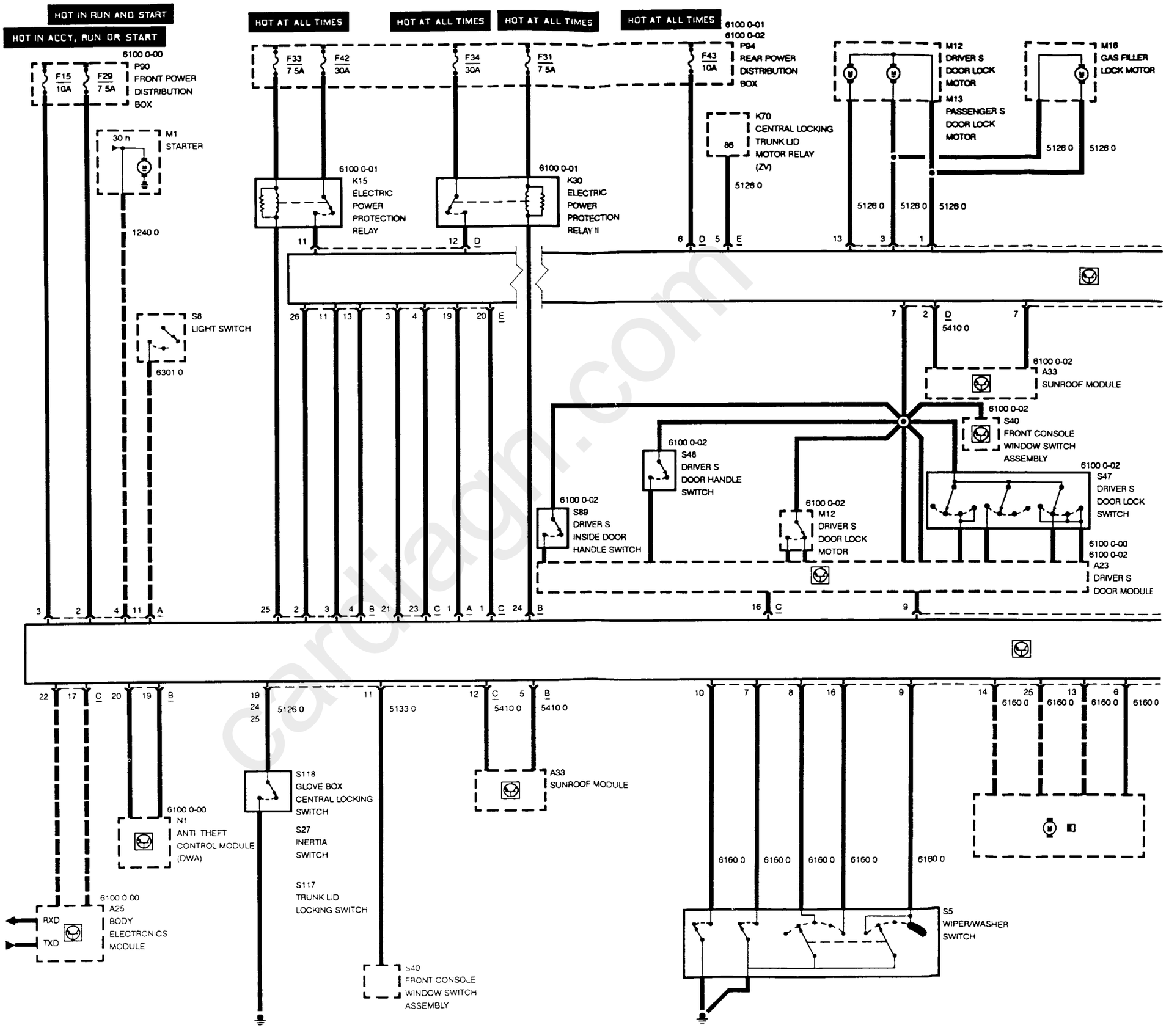
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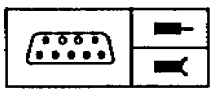
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M21
DRIVER S
WINDOW MOTOR
M23
PASSENGER S
WINDOW MOTOR
M20
LEFT REAR
WINDOW MOTOR
M22
RIGHT REAR
WINDOW MOTOR
5133 0
5133 0
18 10
18 15
19 14
17 20 D
K36
WIPER RELAY I
86
K37
WIPER RELAY II
K38
WIPER RELAY III
6160 0
8
24
21
K5
WASHER PUMP
RELAY
86
K42
INTENSIVE WASH
RELAY
6160 0
9
22
K12
WIPER PRESSURE
CONTROL (ADV)
RELAY
6164 0
17
18
K72
CONSUMER
CUT-OFF RELAY I
85
6320 0
6 E
A5
RELAY MODULE
1
10 E
15
6167 0
4 8 9 D 12 25 E
D = X258
E = X259
N6
HEADLIGHT/
FOGLIGHT
CLEANING
MODULE (SRA)
N13z
COMPACT
INFRARED
LOCKING
6330 0
6330 0
N17
CRASH CONTROL
MODULE
6100 0-03
S79
PASSENGER S
DOOR HANDLE
SWITCH
6100 0-03
S49
PASSENGER S
DOOR LOCK
SWITCH
6100 0-03
S90
PASSENGER S
INSIDE DOOR
HANDLE SWITCH
6100 0-03
M13
PASSENGER S
DOOR LOCK
MOTOR
6100 0-00
6100 0-03
A24
PASSENGER S
DOOR MODULE
K29
INTERIOR
LIGHT RELAY
85
6330 0
6350 0
6167 0
8 B
15 C
22 A
8 9 C
12 B
17 A
A1
GENERAL MODULE
23
24
15
6164 0
20
6164 0
19 A
6 C
7
6330 0
10 B
10 C
5133 0
26 A
26 B
26 C
A = X253
B = X254
C = X332
ER MOTOR
K12
WIPER PRESSURE
CONTROL (ADV)
RELAY
6160 0
M5
INTENSIVE
WASH PUMP
M4
WASHER PUMP
M6
WIPER
PRESSURE
CONTROL
MOTOR (ADV)
6210 0
S64
WASHER
FLUID LEVEL
SWITCH
S14
DRIVER S
DOOR JAMB
SWITCH
S13
PASSENGER S
DOOR JAMB
SWITCH
S46
RIGHT REAR
WINDOW LIMIT
SWITCH
S45
LEFT REAR
WINDOW LIMIT
SWITCH

11/92 — 6100.0



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Pin Assignments

A=X253 26 pins, black
B=X254 26 pins, yellow
C=X332 26 pins, white
D=X258 20 pins, black
E=X259 26 pins, black

X253

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	E	U–Batt for electronics	Terminal 30	approx. 12 V		
2	E	Ignition voltage	Terminal 15	approx. 12 V		
3	E	Voltage	Terminal R	approx. 12 V		
4	E	Starter signal	Terminal 50	approx. 12 V		
5		Not used				
6	E	Wiper reset contact	Wiper motor	approx. 12 V; 0–2 V	Defect is stored with defect code No. 21	Wiper in parked position Wiper not in parked position
7	E	Wash	Wiper/washer switch	0–2 V		Switch operated
8	E	Intermittent wipe	Wiper/washer switch	0–2 V		Switch operated
9	E	Wipe stage 1	Wiper/washer switch	0–2 V		Switch operated
10	E	Intensive wash	Wiper/washer switch	0–2 V		Switch operated
11	E	Headlamp on	Terminal 58	approx. 12 V		

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Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
12		Not used				
13	E	Diagnosis, wiper relay stage 1/2	Wiper relay 3 to wiper motor		Defect is stored with defect code No. 24, 25	
14	E	Diagnosis, wiper park relay	Wiper relay 3 to wiper motor		Defect is stored with defect code No. 23	
15	E	Diagnosis, ADV module	ADV module		Defect is stored with defect code No. 28	
16	E	Wipe stage 2	Wiper/washer switch	0–2 V		Switch operated
17	A	Interface to hazard warning lights	Crash control unit	0–2 V		Ground pulse during crash
18		Not used				
19	E	Low washer fluid warning	Washer fluid level switch	0–2 V; approx. 12 V		Level OK.: Level too low
20	E	ADV cam switch	Wiper pressure control motor	0–2 V; approx. 12 V	Defect is stored with defect code No. 22	Cam not reached; Cam reached (parked position)
21		Not used				
22	E	Diagnosis, SRA module	SRA module		Defect is stored with defect code No. 29	
23	E	Diagnosis, SIR relay	SIR relay to SIR pump		Defect is stored with defect code No. 27	
24	E	Diagnosis, wash pump relay	Washer pump to washer pump relay		Defect is stored with defect code No. 26	
25	E	Diagnosis, wiper relay stage 1/2	Wiper relay 3 to wiper motor		Defect is stored with defect code No. 24, 25	
26	M	Ground for electronics	Terminal 31	0–2 V		

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X254

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1		Not used				
2	A	Relay module interface	RM–B 26	dynamic		
3	A	Relay module interface	RM–B 11	dynamic		
4	A	Relay module interface	RM–B 13	dynamic		
5	A	Interface to SHD module	Sunroof module	dynamic	Defect ist stored with defect code No. 6	
6		Not used				
7		Not used				
8	A	Interface to passenger's door module	TMBT	dynamic	Defect is stored with defect code No. 3	
9	A	Interface to driver's door module	TMFT	dynamic	Defect is stored with defect code No. 2	
10	E	Rear window contact passenger's side	Window limit switch	0–2 V		With window open
11		Not used				
12	A	Interior light relay activation	Interior light relay	0–2 V		During adtivation
13		Not used				
14		Not used				
15		Not used				
16		Not used				
17		Not used				
18		Not used				

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Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
19	A	Interface to DWA	DWA control unit	approx. 12 V		
20	A	Interface to DWA	DWA control unit	approx. 12 V		
21		Not used				
22		Not used				
23		Not used				
24	A	Electronic power fuse: Activation for ES relay passenger's side	ES relay passenger's side	0–2 V		ES relay is only activated during window operation on passenger's side
25	A	Electronic power fuse: Activation for ES relay driver's side	ES relay driver's side	0–2 V		ES relay is only activated during operation of FH, ZV or SHD
26	M	Ground for electronics	Terminal 31	0–2 V		

X332

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	E	U–Batt for electronics	Relay module	approx. 12 V		
2		Not used				
3		Not used				
4		Not used				
5		Not used				
6	E	Passenger's door contact	Passenger's door jamb switch	0–2 V		With door open
7	E	Driver's door contact	Driver's door jamb switch	0–2 V		With door open
8	E	Interface IRF–B	IR locking control unit	0–2 V approx. 12 V		For logic, see functional description ZV

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CENTRAL BODY ELECTRONICS (ZKE II)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
9	E	Interface IRF–A	IR locking control unit	0–2 V approx. 12 V		For logic, see functional description ZV
10	E	Rear window contact, driver's side	Window limit switch	0–2 V		With window open
11	E	Interface from FH switch block	Power window switch block	dynamic	Defect is stored with defect code No. 14	
12	E	Interface from SHD module	SHDM–C Pin 2	dynamic	Defect is stored with defect code No. 6	
13		Not used				
14		Not used				
15	E	Interface from passenger's door module	TMBT–A Pin 9	dynamic	Defect is stored with defect code No. 3	
16	E	Interface from driver's door module	TMFT–A Pin 9	dynamic	Defect is stored with defect code No. 2	
17	E/A	I–bus interface	EKM control module	dynamic		
18		Not used				
19	E	Lock rear lid signal	Glove box lock switch	0–2 V		With glove compartment locked
20		Not used				
21	E	Interface from relay module; diagnostic feedback RM functions	RM–B Pin 3	dynamic		
22	E	Vehicle speed signal	EKM control module	dynamic		
23	E	Interface from relay module; power measurement RM functions	RM–B Pin 4	dynamic		

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Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
24	E	Crash sensor	Inertia switch	approx. 12 V at rest; 0–2 V in the case of crash	Defect is stored with defect code No. 48	Sensor has no continuity when at rest; continuity for approx. 2 msec during crash
25	E	Command, unlock rear lid	Trunk lid switch	0–2 V		Button pressed
26	M	Ground for electronics	Ground	0–2 V		

X258

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	A	Activation of ZV motors: Unlock	ZV motors	approx. 12 V	Defect is stored with defect code No. 47	During activation, electronic power fuse
2	A	U–Batt for power circuit on driver's side from electronic fuse	SHDM–B Pin 2	approx. 12 V		Only during operation of FH, ZV or SHD
3	A	Activation of ZV motors: Lock	ZV motors	approx. 12 V	Defect is stored with defect code No. 46	During activation, electronic power fuse
4	M	Ground for electronics	Terminal 31	0–2 V		
5		Not used				
6	E	U–Batt for electronics for all ZKE modules	Terminal 30	approx. 12 V		
7	A	U–Batt for driver's door module electronics	TMFT–A Pin 22, 23	approx. 12 V		
8	M	Ground for ZV and FH motors	Terminal 31	0–2 V		
9	M	Ground for ZV and FH motors	Terminal 31	0–2 V		
10	A	FH motor activation: driver's door open	FH motor driver's door	approx. 12 V	Defect is stored with defect code No. 58	During activation, electronic power fuse

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CENTRAL BODY ELECTRONICS (ZKE II)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
11	E	U–Batt for power circuit on driver's side from electronic power fuse	ES relay driver's side	approx. 12 V		Only during operation of FH, ZV or SHD
12	E	U–Batt for power circuit on passenger's side from electronic power fuse	ES relay passenger's side	approx. 12 V		Only during power window operation on passenger's side
13	A	Activation ZV motors: Central arrest	ZV motors	approx. 12 V	Defect is stored with defect code No. 45	During activation, electronic power fuse
14	A	Activation FH motor: Rear driver's side, close	FH motor rear drivers's side	approx. 12 V	Defect is stored with defect code No. 64	During activation, electronic power fuse
15	A	Activation FH motor: Passenger's door, open	FH motor passenger's door	approx. 12 V	Defect is stored with defect code No. 59	During activation, electronic power fuse
16	A	Activation FH motor: Driver's door, close	FH motor driver's door	approx. 12 V	Defect is stored with defect code No. 62	During activation, electronic power fuse
17	A	Activation FH motor: Rear passenger's side, open	FH motor rear passenger's side	approx. 12 V	Defect is stored with defect code No. 61	During activation, electronic power fuse
18	A	Activation FH motor: Passenger's door, close	FH motor passenger's door	approx. 12 V	Defect is stored with defect code No. 63	During activation, electronic power fuse
19	A	Activation FH motor: Rear driver's side, open	FH motor rear drivers's side	approx. 12 V	Defect is stored with defect code No. 60	During activation, electronic power fuse
20	A	Activation FH motor: Rear passenger's side, close	FH motor rear passenger's side	approx. 12 V	Defect is stored with defect code No. 65	During activation, electronic power fuse

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CENTRAL BODY ELECTRONICS (ZKE II)

X259

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	A	U–Batt for passenger's door module electronics	TMBT–A Pin 23	approx. 12 V		
2		Not used				
3	A	Interface to general module, diagnostic feedback RM function	GM–A Pin 21	dynamic		
4	A	Interface to general module, power measurement RM	GM–A Pin 23	dynamic		
5	A	Relay activation, unlock rear lid	Trunk lid motor relay	0–2 V		During activation
6	A	Relay activation, load cut–out	Consumer cut–off relay 1	0–2 V		During activation
7	A	U–Batt for sunroof module electronics	SHDM–B Pin 1	approx. 12 V		
8	A	Relay activation, wiper park position	Wiper relay 1	0–2 V	Defect is stored with defect code No. 23	During activation
9	A	Relay activation, wash pump	Washer pump relay	0–2 V	Defect is stored with defect code No. 26	During activation
10	A	SRA module activation: Headlamp washer	SRA module	0–2 V	Defect is stored with defect code No. 29	During activation
11	A	General module interface	GM–C Pin 3	dynamic		
12	M	Ground for electronics	Terminal 31	0–2 V		
13	A	General module interface	GM–C Pin 4	dynamic		
14		Not used				

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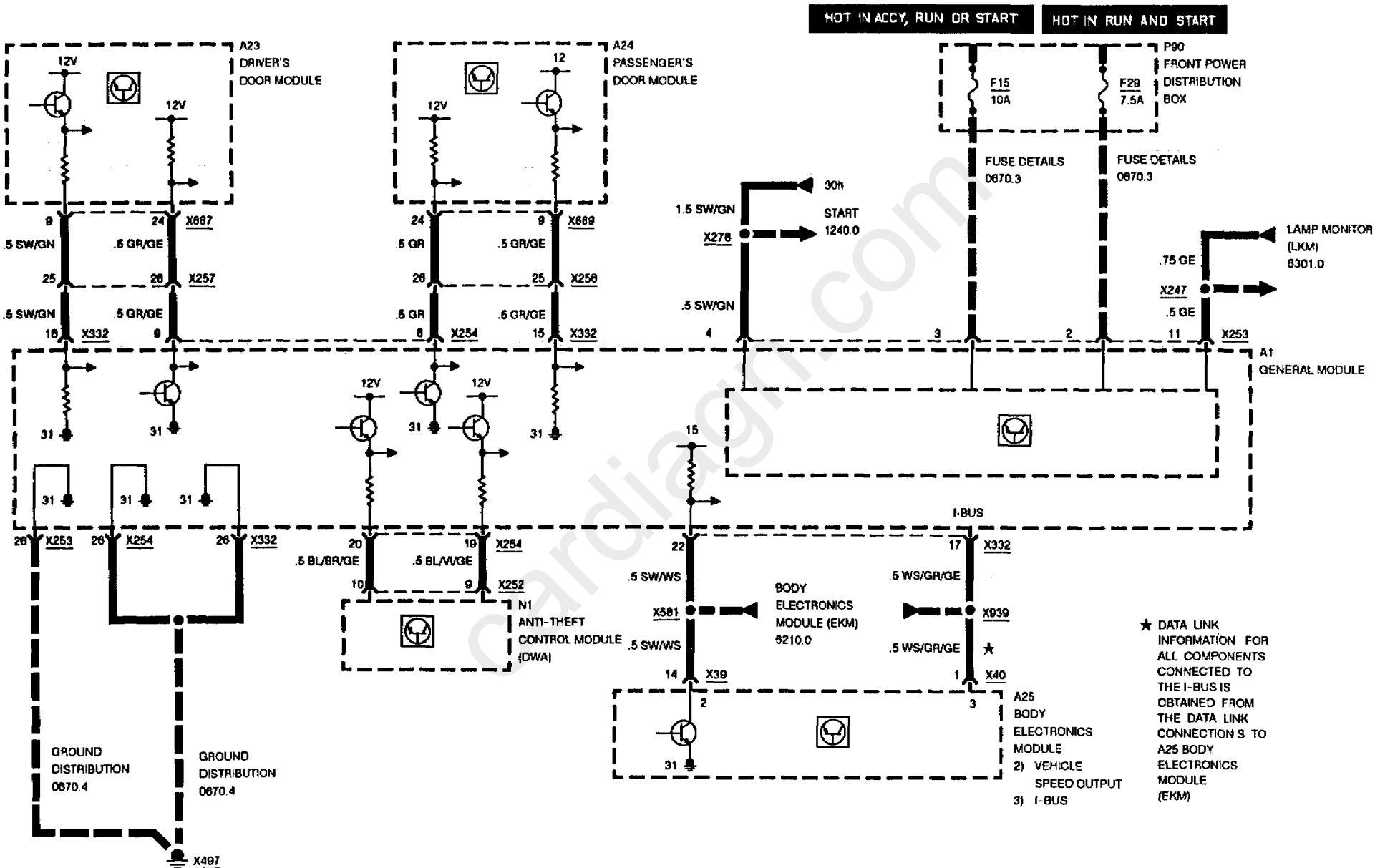
Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
15	A	SRA module activation: Wash pump luggage compartment	SRA module	0–2 V	Defect is stored with defect code No. 29	During activation
16		Not used				
17	A	ADV module activation: Reduce pressure	Wiper pressure control relay	0–2 V	Defect is stored with defect code No. 28	During activation
18	A	ADV module activation: Increase pressure	Wiper pressure control relay	0–2 V	Defect is stored with defect code No. 28	During activation
19	A	U–Batt for general module electronics	GM–B Pin 1, GM–A Pin 1	approx. 12 V		
20	A	U–Batt for general module electronics	GM–B Pin 1, GM–A Pin 1	approx. 12 V		
21	A	Relay activation, wiper stage 2	Wiper relay 3	0–2 V	Defect is stored with defect code No. 24, 25	During activation
22	A	Relay activation, Intensive wash (SIR)	Intensive wash relay	0–2 V	Defect is stored with defect code No. 27	During activation
23	M,	Not used				
24	A	Relay activation, wiper stage 1	Wiper relay 2	0–2 V	Defect is stored with defect code No. 24, 25	During activation
25	M,	Ground for electronics	Terminal 31	0–2 V		
26	A	General module interface	GM–C Pin 2	dynamic		

E = Input, A = Output, M = Ground

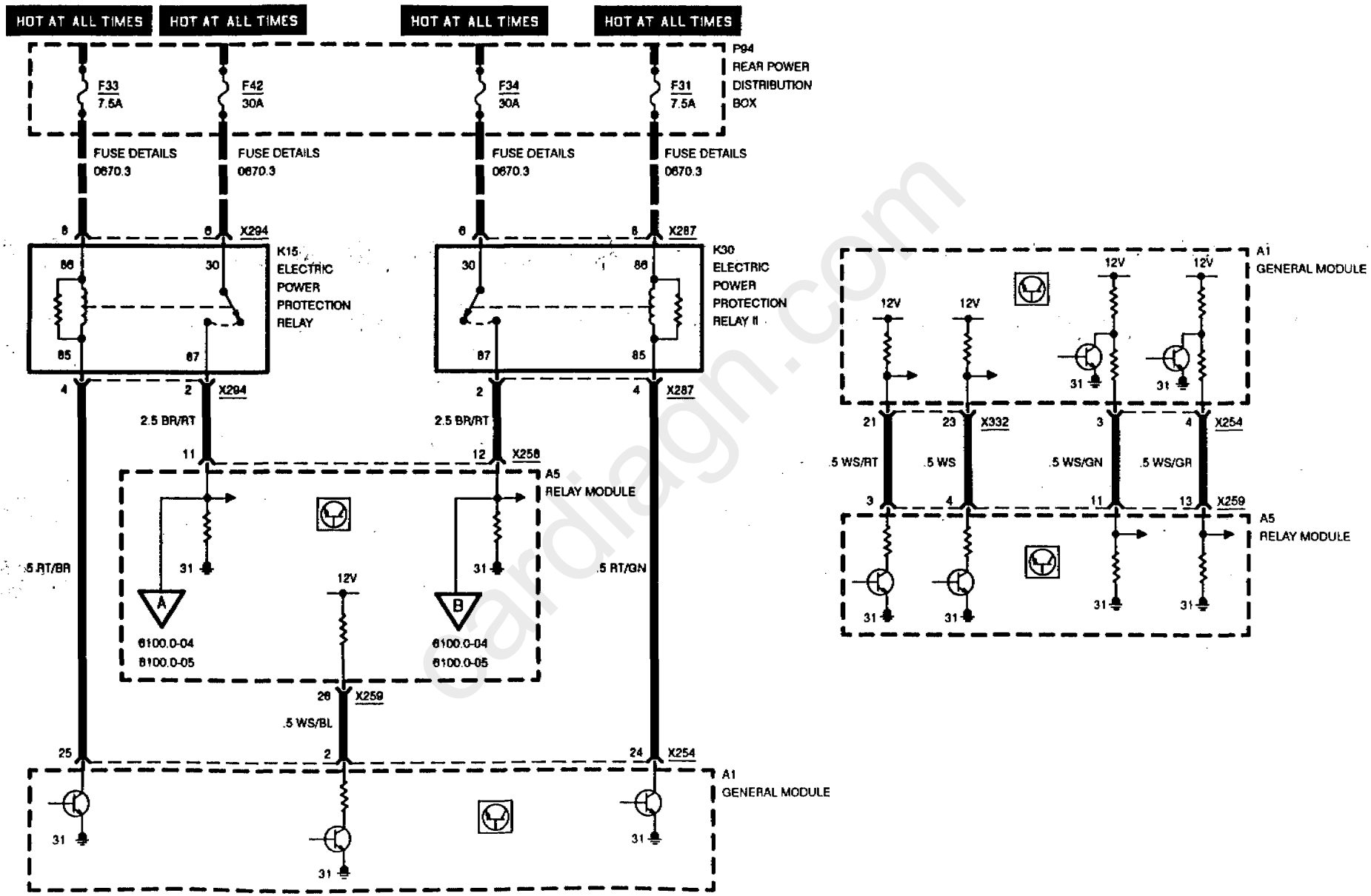
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CENTRAL BODY ELECTRONICS (ZKE II)

GENERAL MODULE

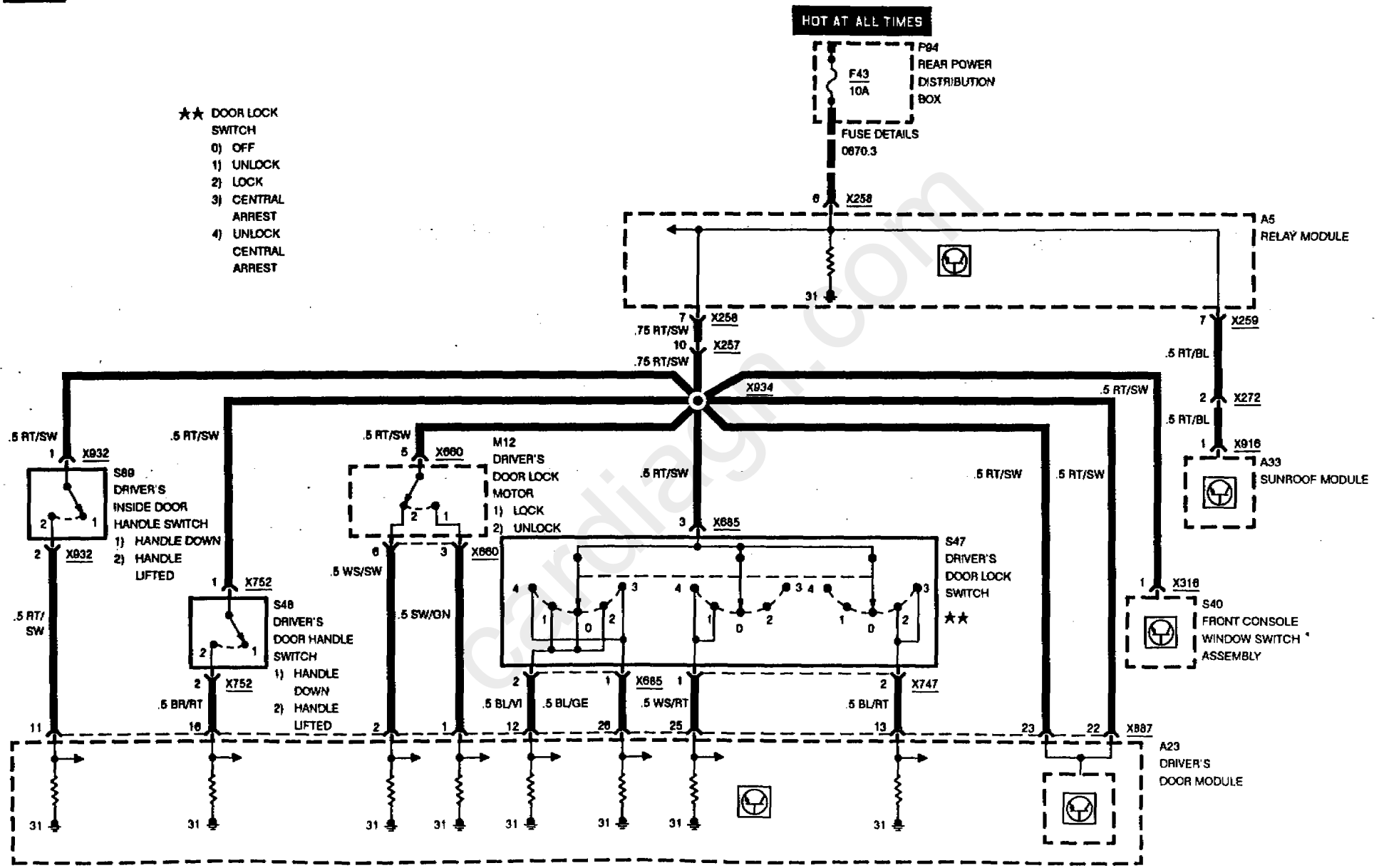


CENTRAL BODY ELECTRONICS (ZKE II)



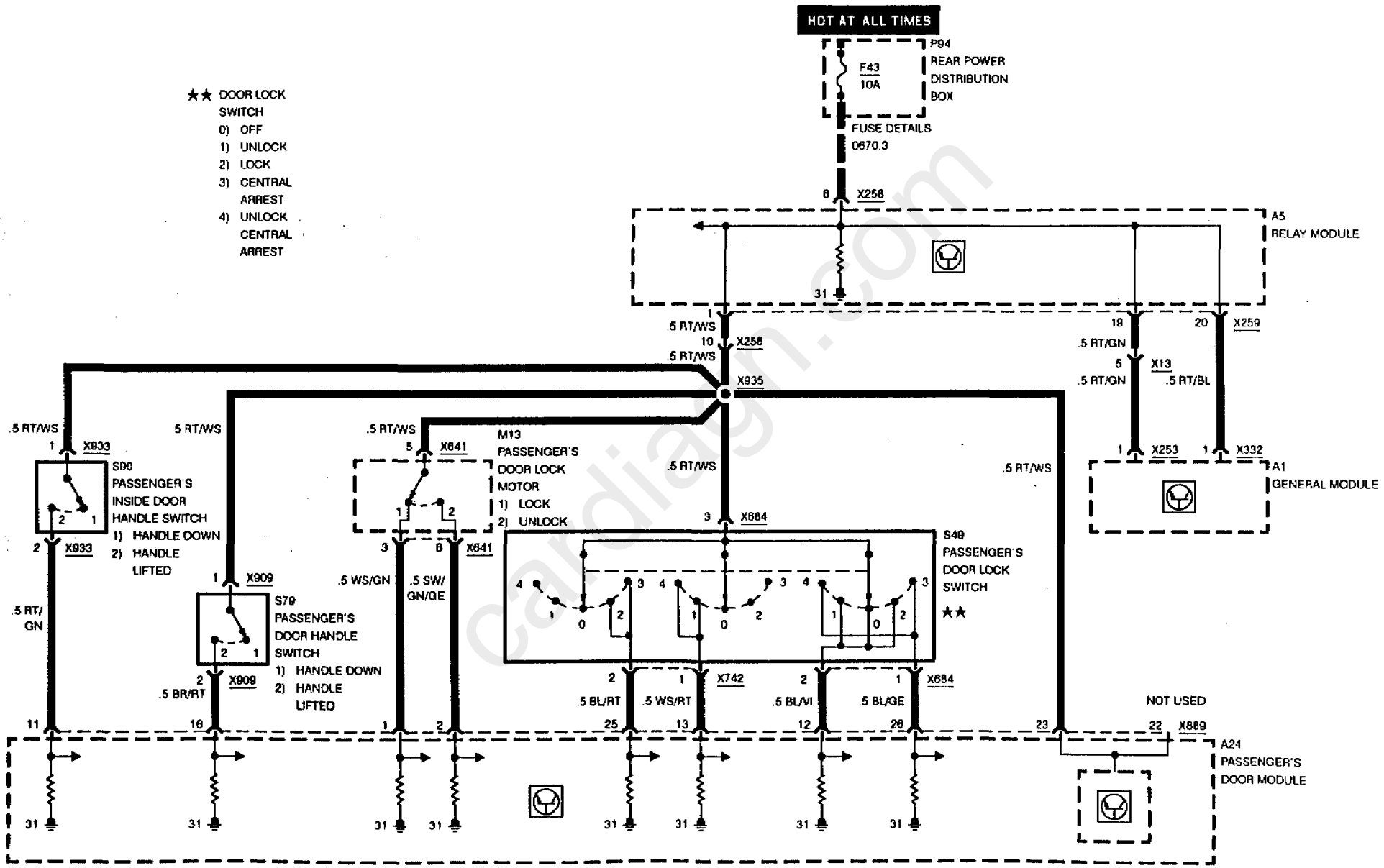
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CENTRAL BODY ELECTRONICS (ZKE II)



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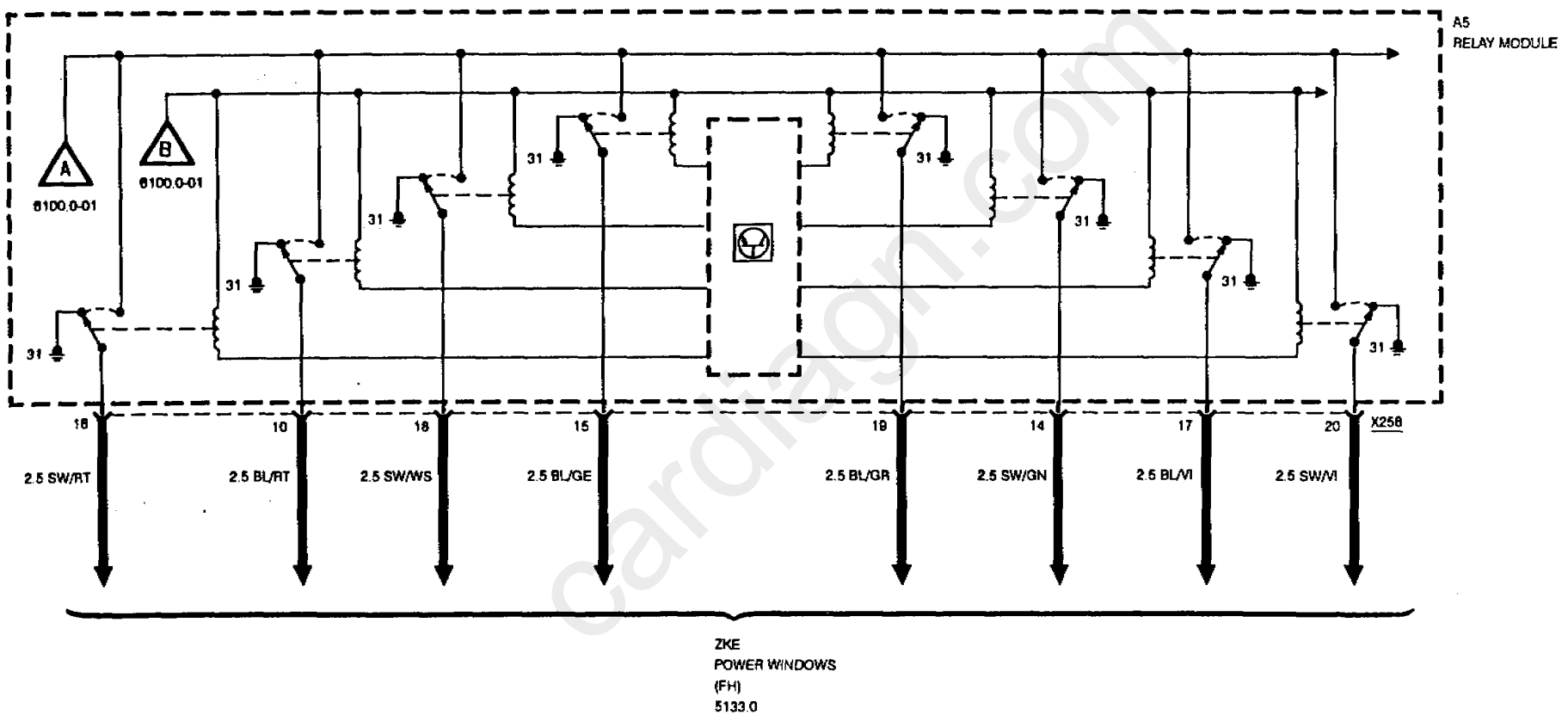
CENTRAL BODY ELECTRONICS (ZKE II)



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CENTRAL BODY ELECTRONICS (ZKE II)

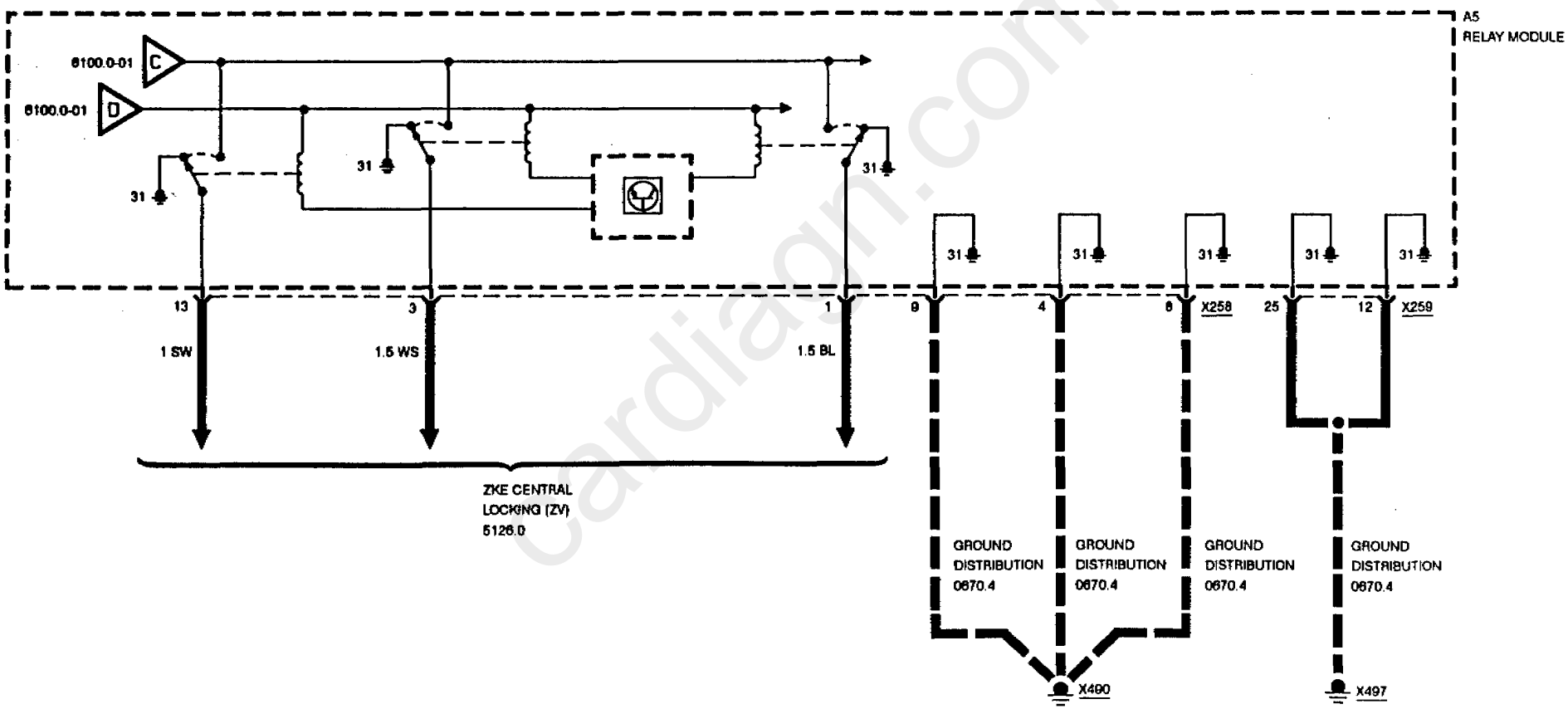
RELAY MODULE



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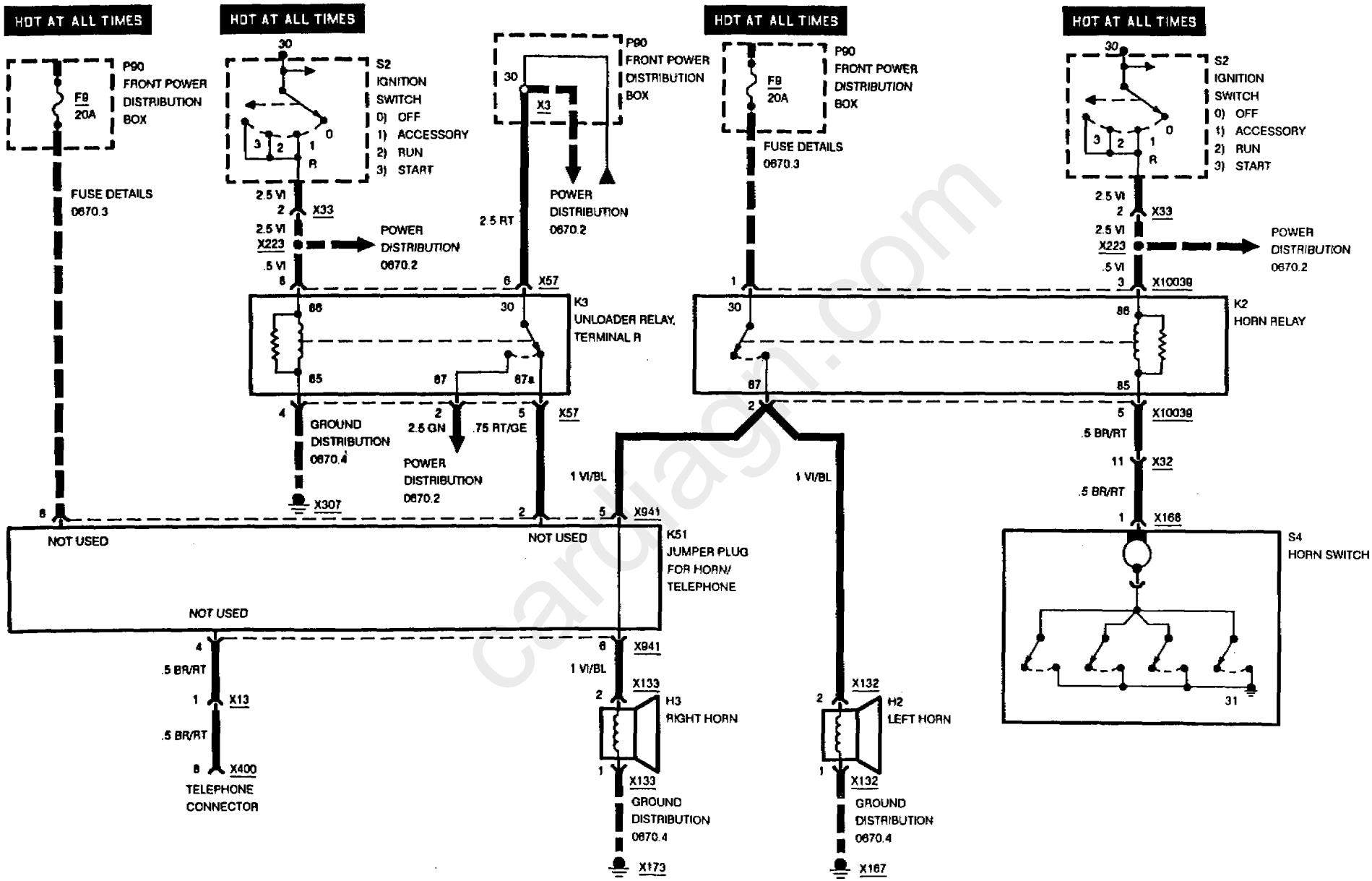
CENTRAL BODY ELECTRONICS (ZKE II)

RELAY MODULE



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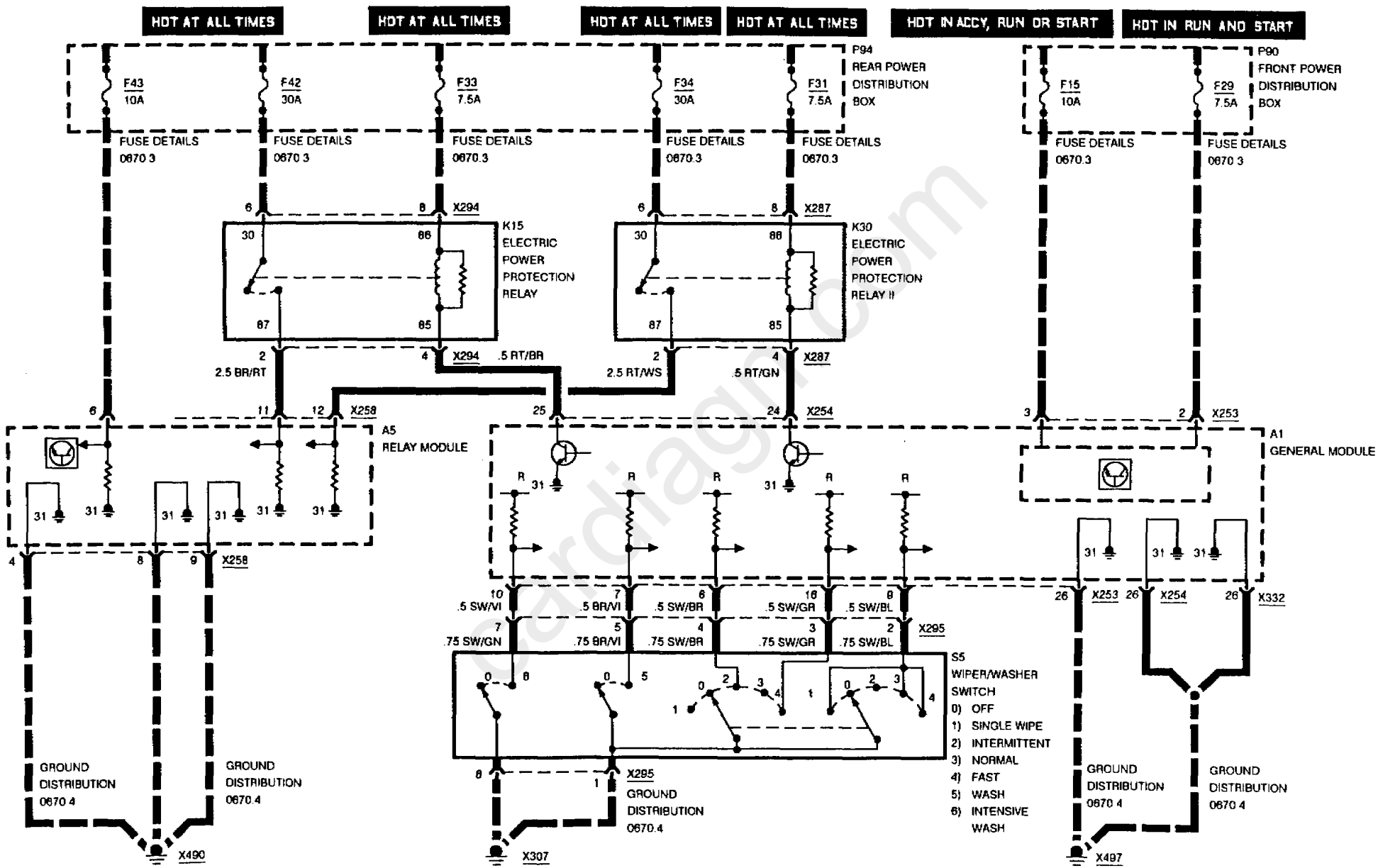
HORN



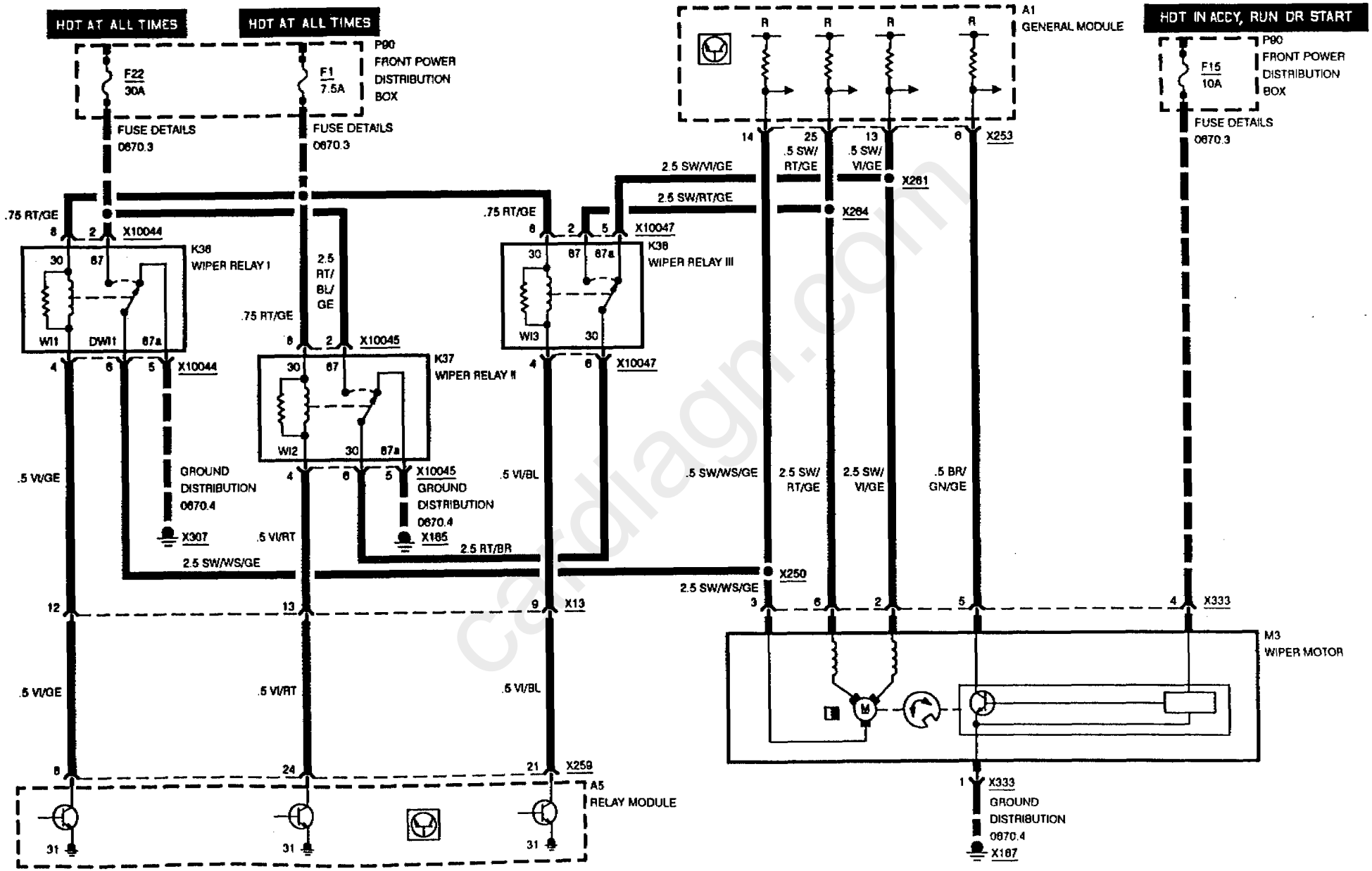
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ZKE WIPER/WASHER CONTROL

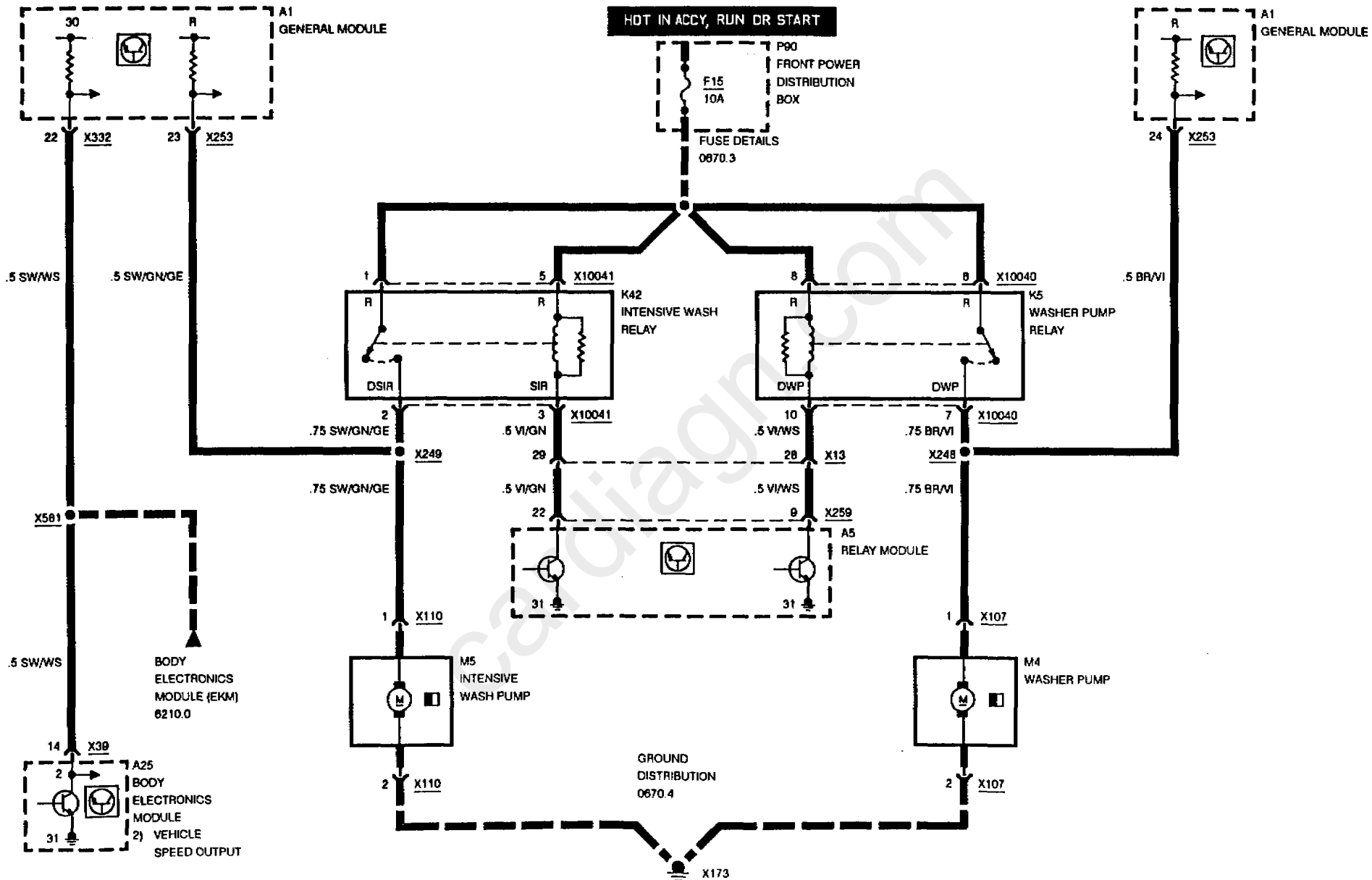


ZKE WIPER/WASHER CONTROL



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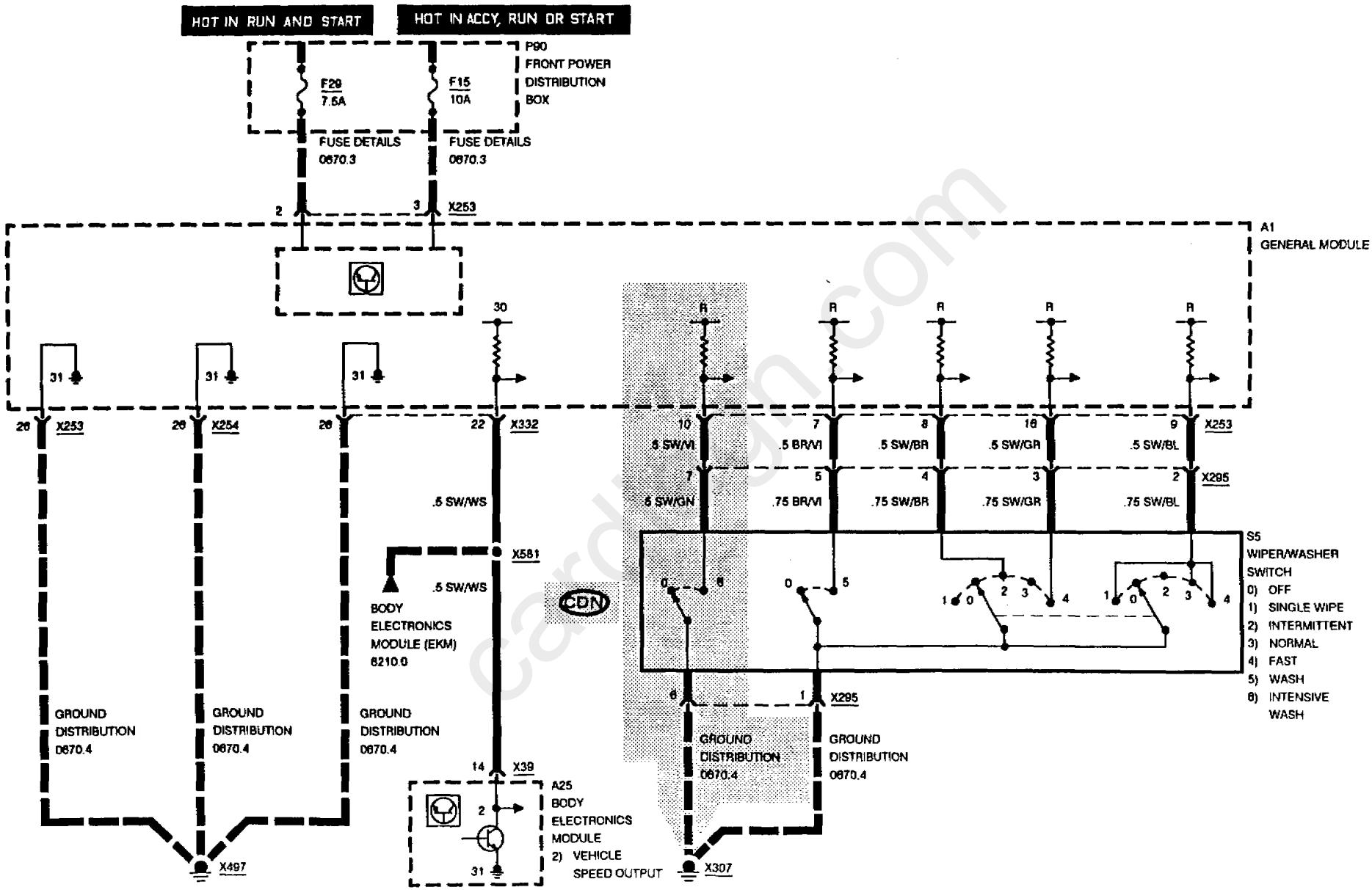
ZKE WIPER/WASHER CONTROL



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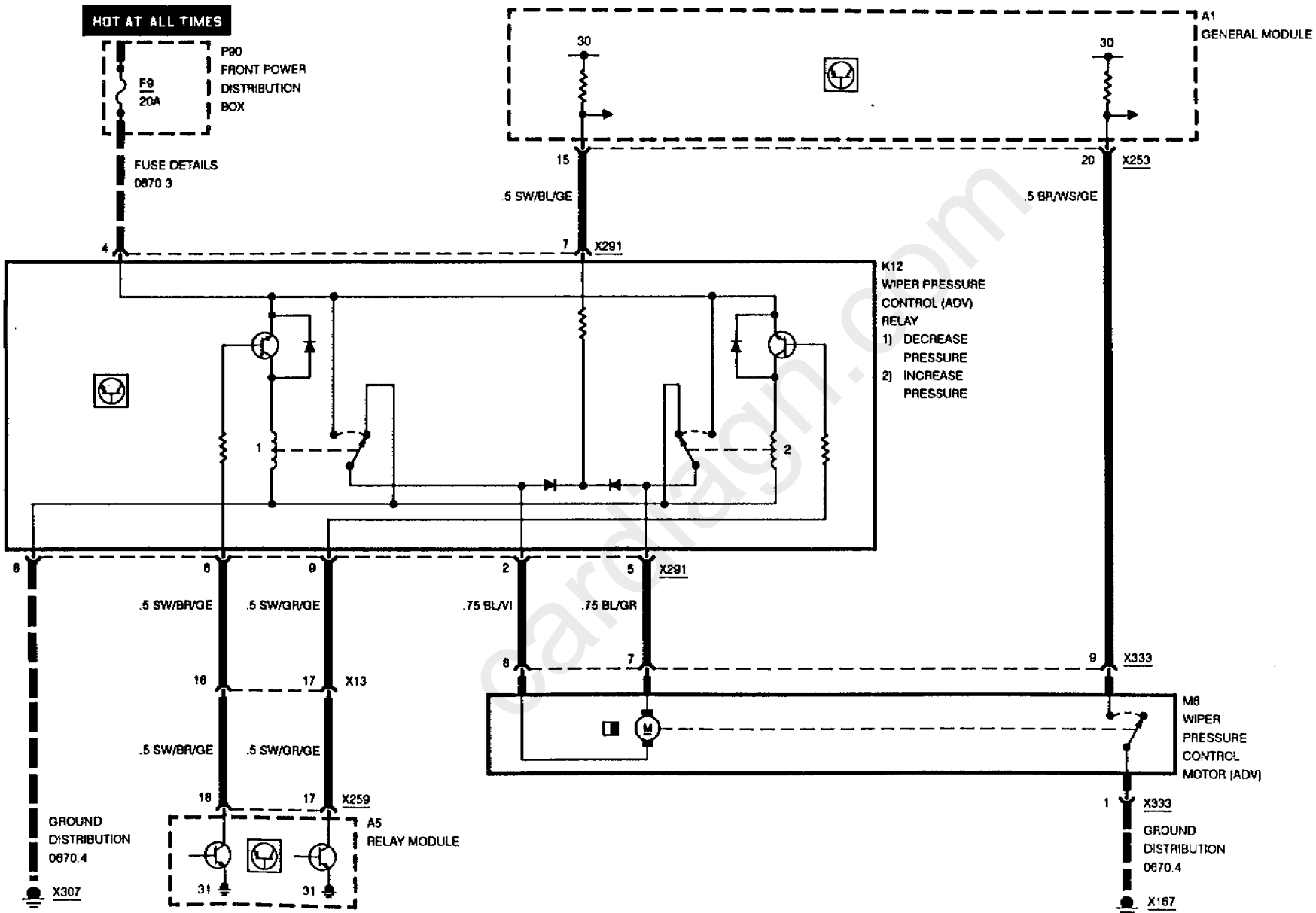
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ZKE WINDSHIELD WIPER PRESSURE CONTROL (ADV)

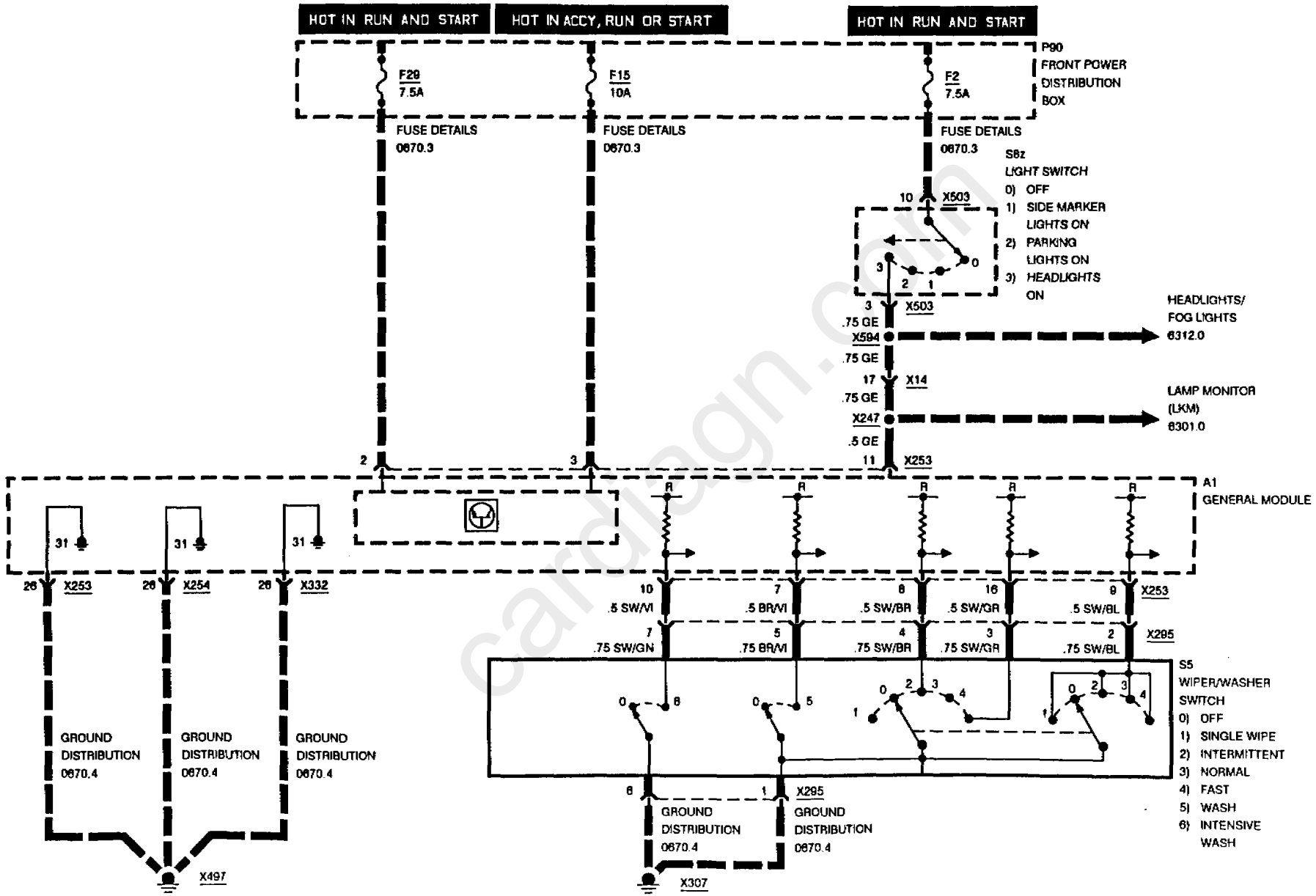


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ZKE WINDSHIELD WIPER PRESSURE CONTROL (ADV)



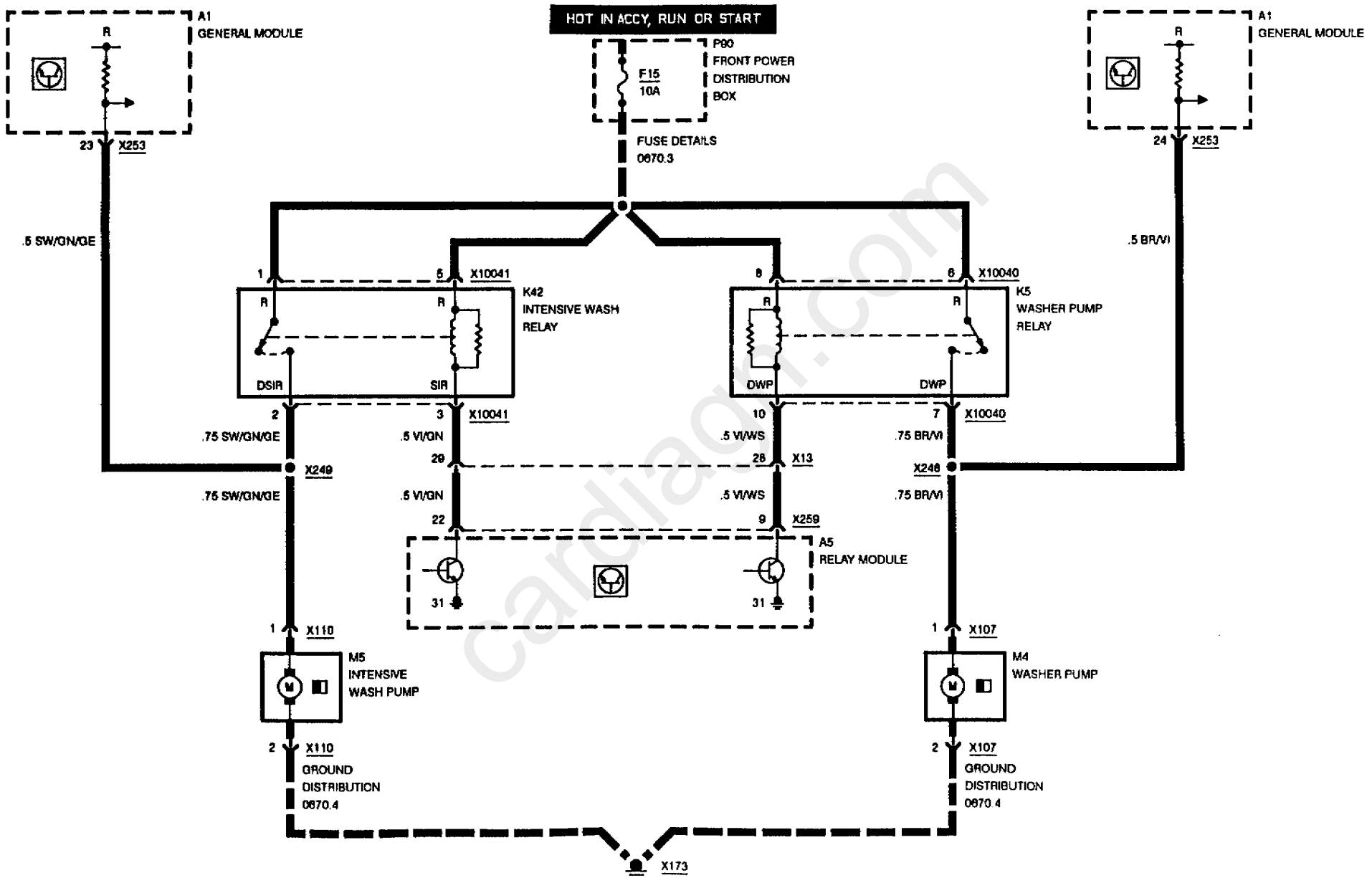
ZKE HEADLIGHT WASHER (SRA)



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ZKE HEADLIGHT WASHER (SRA)

CDN

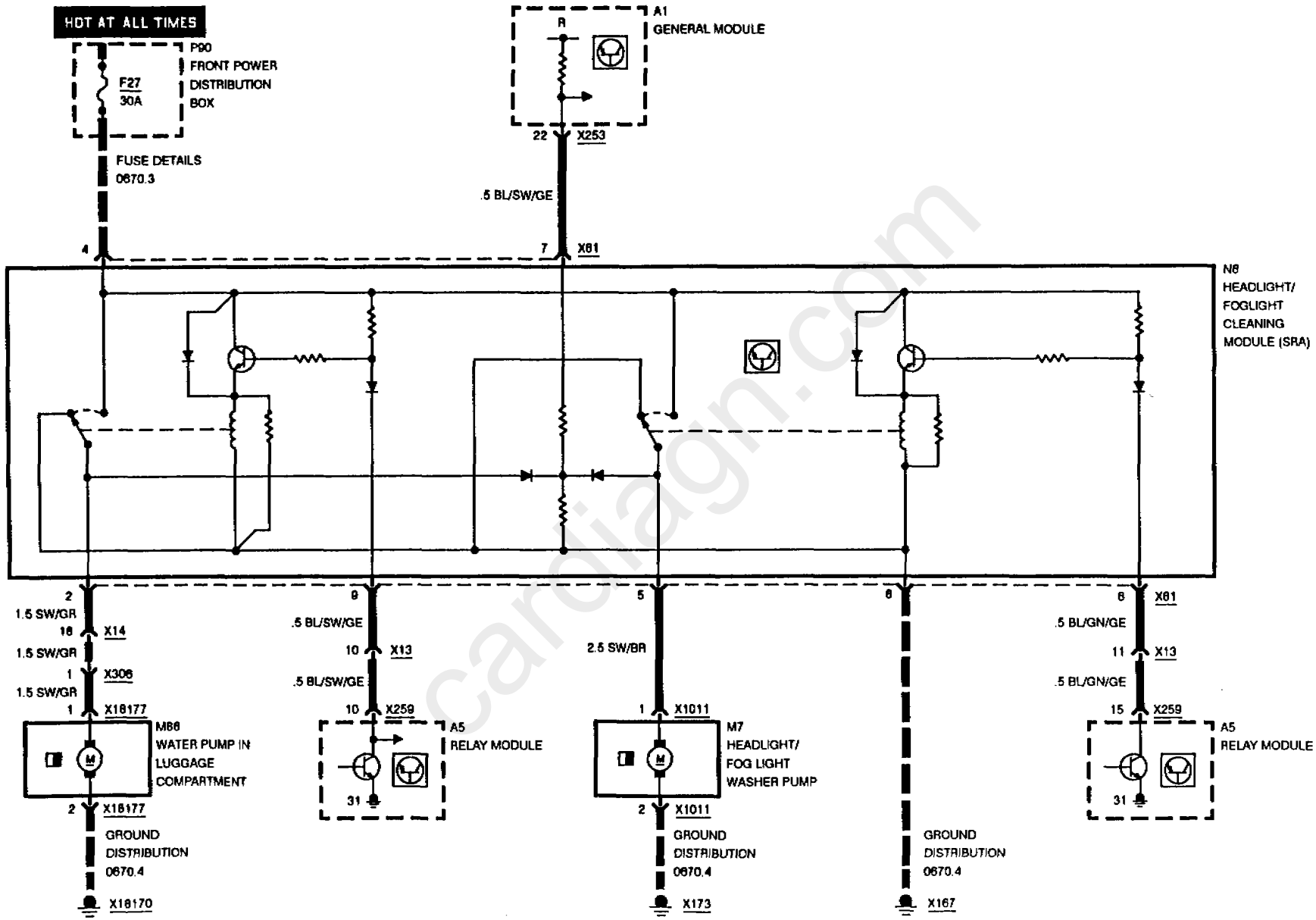


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ZKE HEADLIGHT WASHER (SRA)

CDN

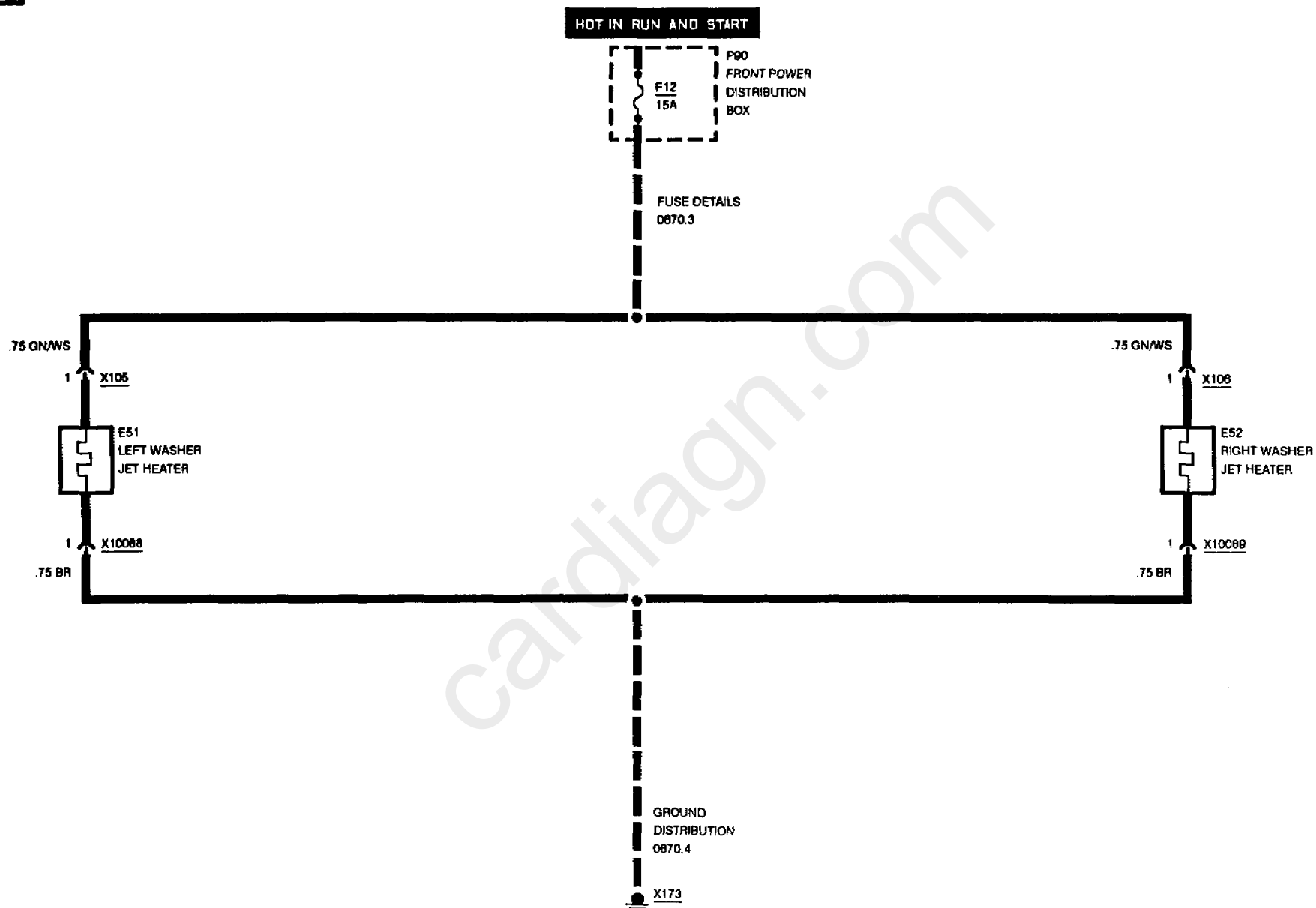
OUTPUT DETAILS



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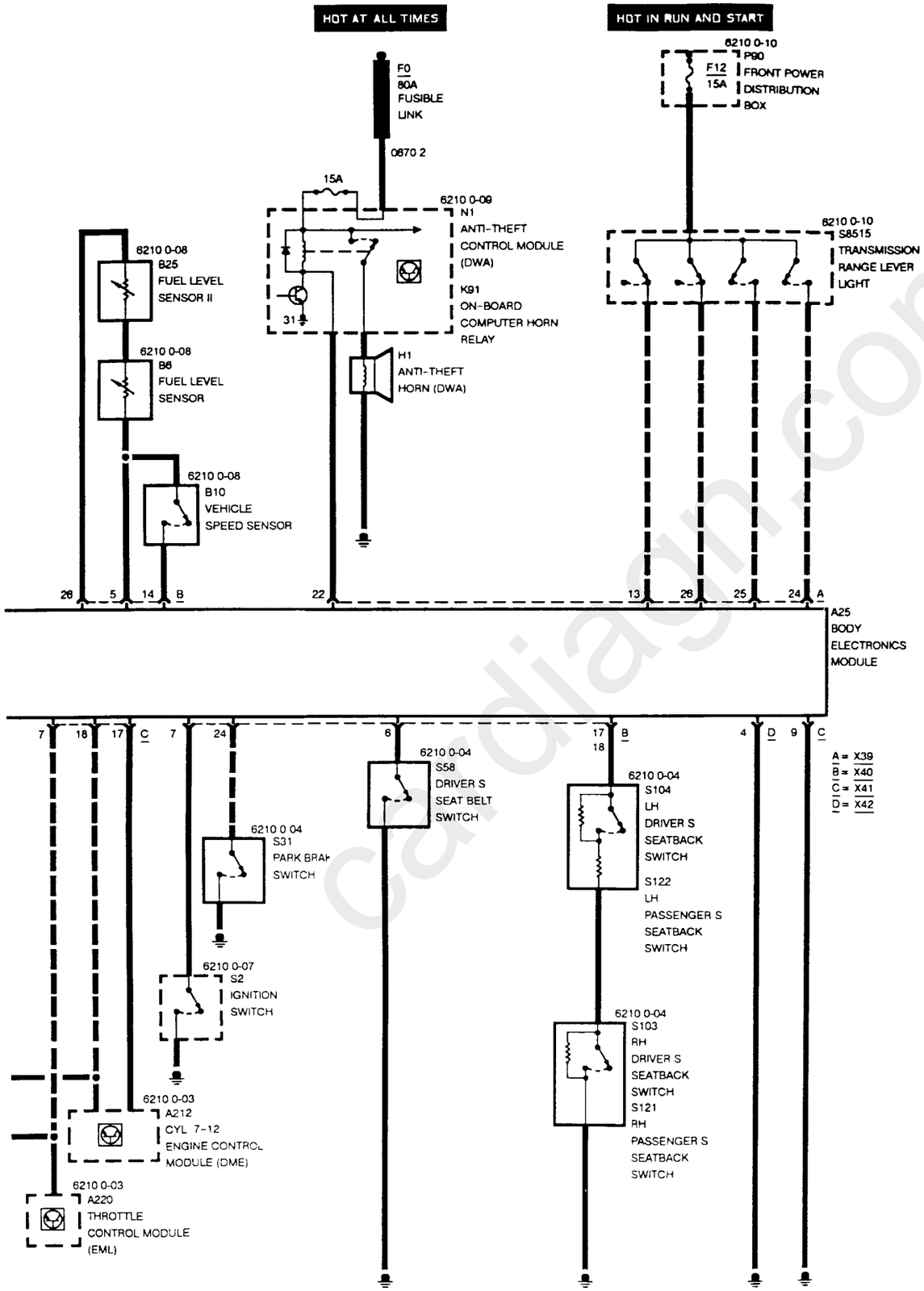
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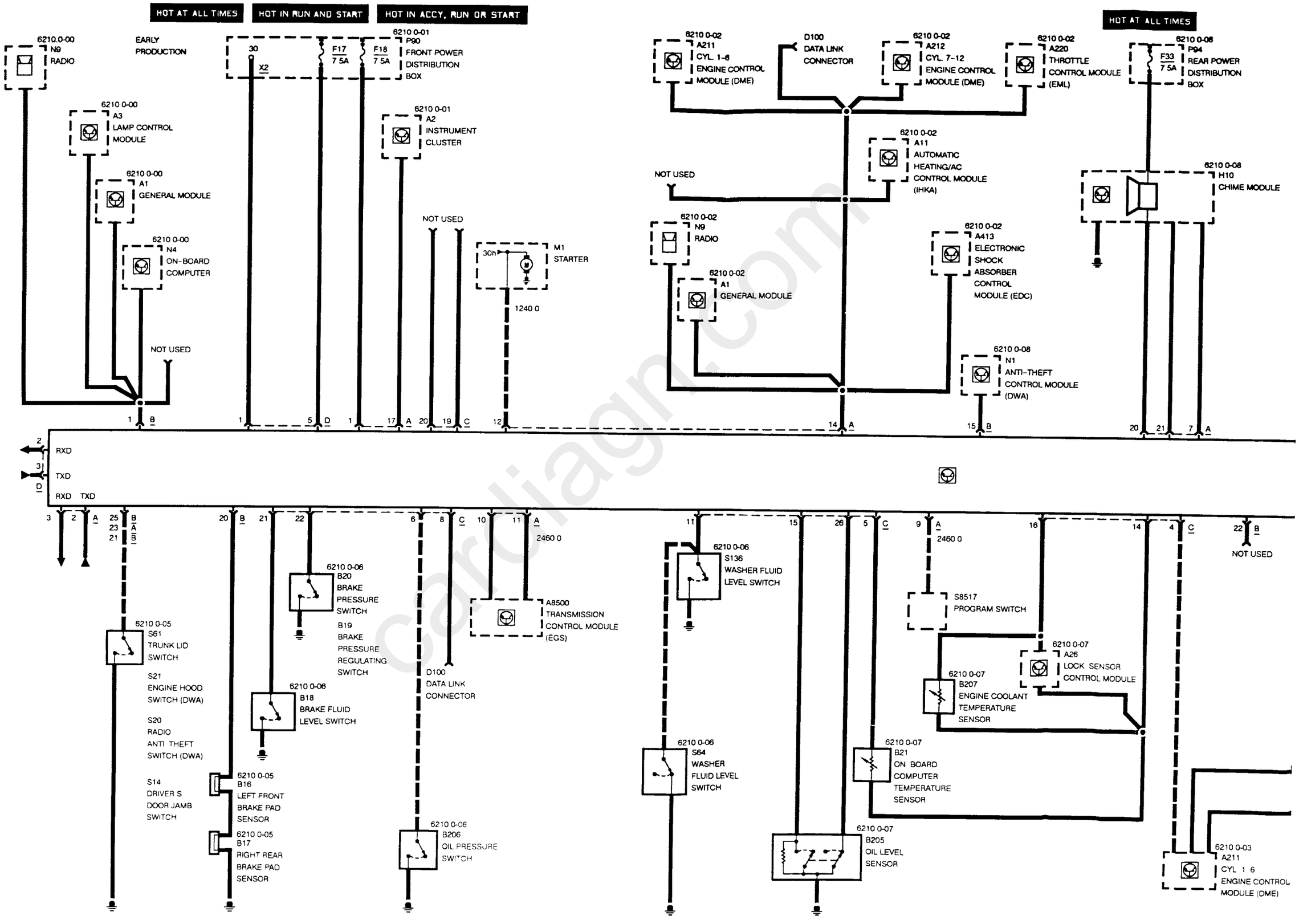
WINDSHIELD WASHER JET HEATERS



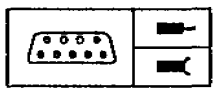
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HOT AT ALL TIMES
HOT IN RUN AND START
F0
80A
FUSIBLE
LINK
0670 2
15A
6210 0-09
N1
ANTI-THEFT
CONTROL MODULE
(DWA)
K91
ON-BOARD
COMPUTER HORN
RELAY
31
H1
ANTI-THEFT
HORN (DWA)
6210 0-08
B25
FUEL LEVEL
SENSOR II
6210 0-08
B6
FUEL LEVEL
SENSOR
6210 0-08
B10
VEHICLE
SPEED SENSOR
6210 0-10
P90
F12
15A
FRONT POWER
DISTRIBUTION
BOX
6210 0-10
S8515
TRANSMISSION
RANGE LEVER
LIGHT
26 5 14 B 22 13 26 25 24 A
A25
BODY
ELECTRONICS
MODULE
7 18 17 C 7 24 6 17 18 B 4 D 9 C
A = X39
B = X40
C = X41
D = X42
6210 0-04
S58
DRIVER S
SEAT BELT
SWITCH
6210 0 04
S31
PARK BRAK
SWITCH
6210 0-04
S104
LH
DRIVER S
SEATBACK
SWITCH
S122
LH
PASSENGER S
SEATBACK
SWITCH
6210 0-07
S2
IGNITION
SWITCH
6210 0-04
S103
RH
DRIVER S
SEATBACK
SWITCH
S121
RH
PASSENGER S
SEATBACK
SWITCH
6210 0-03
A212
CYL 7-12
ENGINE CONTROL
MODULE (DME)
6210 0-03
A220
THROTTLE
CONTROL MODULE
(EML)


HOT AT ALL TIMES
HOT IN RUN AND START
HOT IN ACCY, RUN OR START
6210.0-00 N9 RADIO
EARLY PRODUCTION
6210 0-00 A3 LAMP CONTROL MODULE
6210 0-00 A1 GENERAL MODULE
6210 0-00 N4 ON-BOARD COMPUTER
NOT USED
30 X2
F17 7.5A
F18 7.5A
6210 0-01 P90 FRONT POWER DISTRIBUTION BOX
6210 0-01 A2 INSTRUMENT CLUSTER
NOT USED
30h
M1 STARTER
1240 0
1 B
1 5 D
1 17 A
20 19 C
12
RXD
TXD
RXD TXD
3 2 A
25 23 21 B A B
20 B
21 22
6 8 C
10 11 A
2460 0
6210 0-06 B20 BRAKE PRESSURE SWITCH
B19 BRAKE PRESSURE REGULATING SWITCH
6210 0-06 B18 BRAKE FLUID LEVEL SWITCH
A8500 TRANSMISSION CONTROL MODULE (EGS)
D100 DATA LINK CONNECTOR
6210 0-05 S61 TRUNK LID SWITCH
S21 ENGINE HOOD SWITCH (DWA)
S20 RADIO ANTI THEFT SWITCH (DWA)
S14 DRIVER S DOOR JAMB SWITCH
6210 0-05 B16 LEFT FRONT BRAKE PAD SENSOR
6210 0-05 B17 RIGHT REAR BRAKE PAD SENSOR
6210 0-06 B206 OIL PRESSURE SWITCH
HOT AT ALL TIMES
6210 0-02 A211 CYL. 1-6 ENGINE CONTROL MODULE (DME)
D100 DATA LINK CONNECTOR
6210 0-02 A212 CYL. 7-12 ENGINE CONTROL MODULE (DME)
6210 0-02 A220 THROTTLE CONTROL MODULE (EML)
F33 7.5A
6210 0-08 P94 REAR POWER DISTRIBUTION BOX
6210 0-02 A11 AUTOMATIC HEATING/AC CONTROL MODULE (IHKA)
NOT USED
6210 0-08 H10 CHIME MODULE
6210 0-02 N9 RADIO
6210 0-02 A1 GENERAL MODULE
6210 0-02 A413 ELECTRONIC SHOCK ABSORBER CONTROL MODULE (EDC)
6210 0-08 N1 ANTI-THEFT CONTROL MODULE (DWA)
14 A
15 B
20 21 7 A
11
6210 0-06 S136 WASHER FLUID LEVEL SWITCH
6210 0-06 S64 WASHER FLUID LEVEL SWITCH
15 26 5 C
6210 0-07 B205 OIL LEVEL SENSOR
6210 0-07 B21 ON BOARD COMPUTER TEMPERATURE SENSOR
9 A
2460 0
S8517 PROGRAM SWITCH
16 14
6210 0-07 A26 LOCK SENSOR CONTROL MODULE
6210 0-07 B207 ENGINE COOLANT TEMPERATURE SENSOR
4 C
6210 0-03 A211 CYL 1 6 ENGINE CONTROL MODULE (DME)
22 B
NOT USED

BODY ELECTRONICS MODULE (EKM)



Pin Assignments

A=X39 26 pins, green
B=X40 26 pins, brown
C=X41 26 pins, blue
D=X42 5 pins, black

X39

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	E	Terminal R	Fuse	12 V	ON	
2	E/A	Diagnostic link (TxD)	TxD connection of various control units	Square–wave signal	None	
3	E/A	Diagnostic link (RxD)	RxD connection of various control units	Square–wave signal	None	
4		Not used				
5		Not used				
6		Not used				
7	A	Acoustic output 1 (hour reminder signal)	Acoustic device	B– (active status)	Defect code is stored in the case of a short circuit	Check by ◆ D ◆ activate components
8		Not used				
9	E	EGS program	Program selector switch	0 V 12 V	0 1	

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BODY ELECTRONICS MODULE (EKM)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
10	E	EGS defects	EGS control unit	0 V 12 V	OK Not OK	Valid when engine running
11	E	EGS program	EGS control unit	0 V 12 V	0 1	
12	E	Start position, terminal 30 h	Starter, terminal 30 h	12 V	ON	When ignition switch in start position
13	E	Drive range	Transmission selector lever switch	0 V 12 V	0 1	12 V is switched by selector lever switch
14	A	Vehicle speed signal	Various control units	Square–wave signal	Defect code is stored in the case of a short circuit	Check by ◆ D ◆ activate components
15		Not used				
16		Not used				
17	E/A	Instrument cluster interface/data transfer to instrument cluster	Instrument cluster	Square–wave signal	Defect code is stored	
18		Not used				
19		Not used				
20	A	Acoustic output 2 (outside temperature warning)	Acoustic device	B– (active status)	Defect code is stored in the case of a short circuit	Check by ◆ D ◆ activate components
21	A	Acoustic output 3 (check control message)	Acoustic device	B– (active status)	Defect code is stored in the case of a short circuit	Check by ◆ D ◆ activate components
22	A	Trigger alarm at DWA/horn with drive–away protection active	DWA control unit	B– (active status)	Defect code is stored in the case of a short circuit	Check by ◆ D ◆ activate components

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BODY ELECTRONICS MODULE (EKM)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
23	E	Radio/engine hood status	Radio antitheft switch/ engine hood switch	0 V 12 V	Radio removed/hood open Radio installed/hood closed	
24	E	Drive range	Transmission selector lever switch	0 V 12 V	0 1	12 V is switched by selector lever switch
25	E	Drive range	Transmission selector lever switch	0 V 12 V	0 1	12 V is switched by selector lever switch
26	E	Drive range	Transmission selector lever switch	0 V 12 V	0 1	12 V is switched by selector lever switch

X40

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	E/A	I–bus (instrument bus)	I–bus user	Square–wave signal	Defect code is stored	
2		Not used				
3		Not used				
4		Not used				
5	A	Sensor ground	Fuel supply sensor and tachogenerator	Ground	Defect code is stored	No resistance measure–ment with respect to ve–hicle ground! Check by voltage measurement with respect to U–Batt
6	E	Seat belt buckle signal	Driver's seat belt switch	0 V 12 V	In buckle switch Not in buckle switch	Only installed in US version
7	E	Ignition key status	Ignition switch	0 V 12 V	Key in Key removed	Only installed in US version

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BODY ELECTRONICS MODULE (EKM)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
8		Not used				
9		Not used				
10		Not used				
11		Not used				
12		Not used				
13		Not used				
14	E	Vehicle speed signal	Vehicle speed sensor	Square–wave signal	None	
15	A	Speed signal for DWA	DWA control unit	0 V 12 V	None	Signal change when vehicle is pushed
16		Not used				
17	E	Left backrest locked signal	Driver's seatback switches	0 V to 12 V	Interruption in measuring range short circuit	Nominal values of switches: – Switch L = 1180 Ω – Switch R = 620 Ω Switch not pressed: – Switch L = 560 Ω – Switch R = 0 Ω (+/– 10 Ω)
18	E	Right backrest locked signal	Passenger's seatback switches	0 V to 12 V	See pin 17	See pin 17
19		Not used				
20	E	Brake pad wear indicator	Brake pad sensors	0 V 12 V	OK Not OK	
21	E	Driver's door status	Driver's door jamb switch	0 V 12 V	OPEN CLOSED	

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BODY ELECTRONICS MODULE (EKM)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
22		Not used				
23		Not used				
24	E	Park brake status	Park brake switch	0 V 12 V	ON OFF	
25	E	Trunk lid status	Trunk lid switch	0 V 12 V	OPEN CLOSED	
26	E	Tank contents	Fuel level sensors	0 V to 12 V	Interruption in measuring range short–circuit	Nominal value of tank sensor 10 Ω to 250 Ω

X41

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1		Not used				
2		Not used				
3		Not used				
4	E	ti signal 1/Injection signal	DME I control unit	Square–wave signal	Defect code is stored	
5	E	Outside temperature	Temperature sensor	0 V to 4 V	Interruption in measuring range short circuit	
6	E	Engine oil pressure	Oil pressure switch	0 V 12 V	Not OK OK	Oil pressure switch switches ground when oil pressure too low
7	E	tD signal/Engine speed	DME I control unit	Square–wave signal	Speed values in rpm	

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BODY ELECTRONICS MODULE (EKM)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
8	E	SIA reset	Diagnostic Pin 7	0 V 12 V	None	0 V when ground signal applied at Pin 7 – for reset
9	M	Ground	Ground			
10		Not used				
11	E	Wash water level	Washer fluid level switch	0 V 12 V	OK Not OK	Level switch switches ground when water level OK
12		Not used				
13		Not used				
14	A	Sensor ground	Temperature sensor for coolant and outside temperature	Ground	Defect code is stored	No resistance measured with respect to vehicle ground! Check by voltage measurement with respect to U–Batt
15	E	Dynamic engine oil level	Oil level sensor	0 V 3,4 V	Defect and defect information in ◆ D ◆ test procedure	Internal resistance in level switch 1 kΩ when dynamic oil level too low
16	E	Coolant temperature	Coolant temperature sensor	0 V to 4 V	Interruption in measuring range short circuit	
17	E	ti signal 2/Injection signal	DME II control unit	Square–wave signal	Defect code is stored	
18	A	Starter blocking	DME I and DME II control units	0 V 12 V (active status)	Defect code is stored in the case of a short circuit	Check by ◆ D ◆ activate components
19		Not used				

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BODY ELECTRONICS MODULE (EKM)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
20		Not used				
21	E	Brake fluid level	Brake fluid level switch	0 V 12 V	Not OK OK	Level switch switches ground when brake fluid too low
22	E	Brake pressure	Brake pressure switches	0 V 12 V	Not OK OK	Switch switches ground when brake pressure too low
23		Not used				
24		Not used				
25		Not used				
26	E	Static engine oil level	Oil level sensor	0 V 12 V	Defect and test information in ◆ D ◆ test procedure	Level switch switches ground when static oil level OK

X42

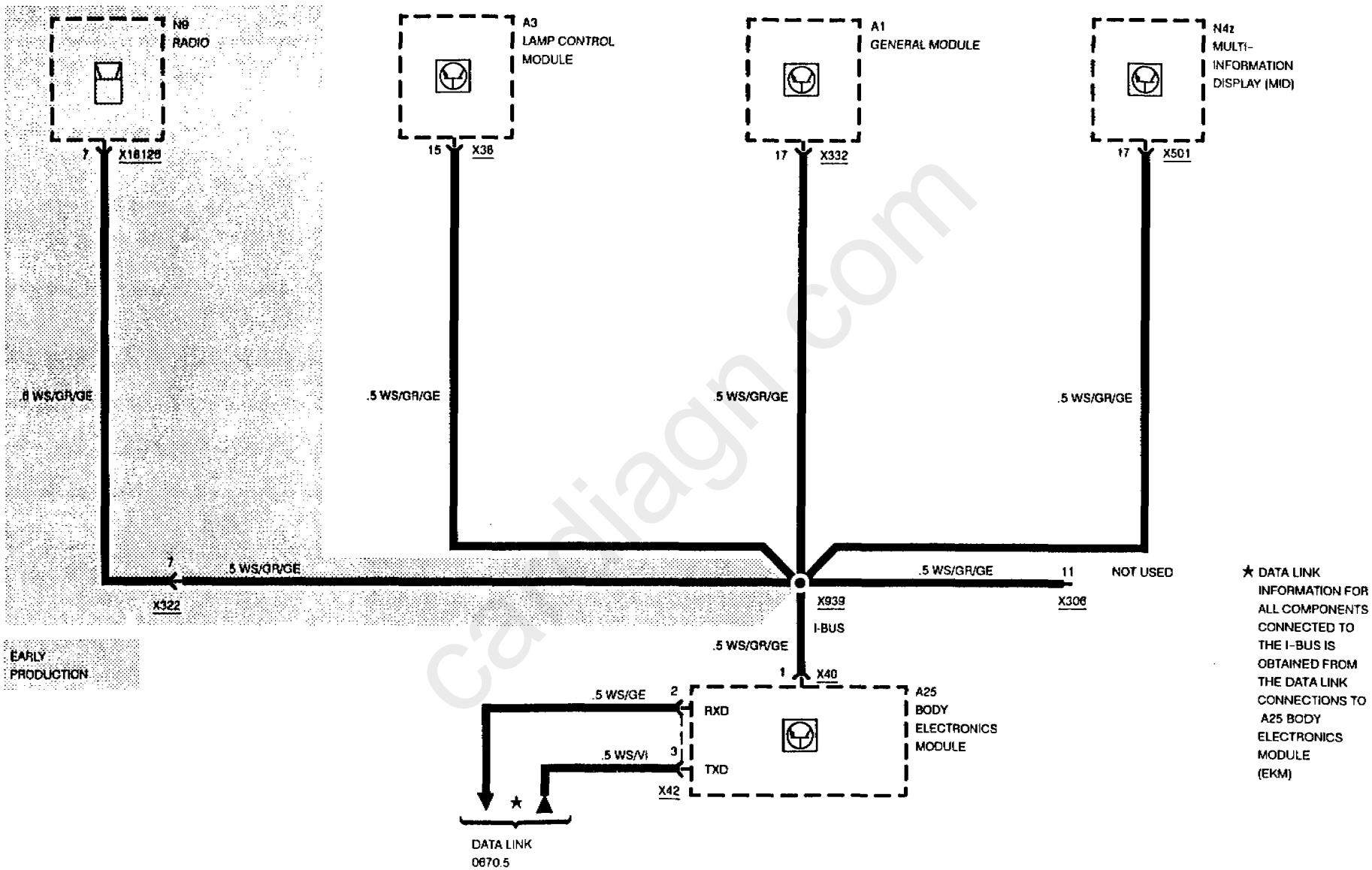
Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	E	Voltage supply terminal 30	Fuse	12 V	None	
2	E/A	Diagnostic link RxD	Diagnostic socket Pin 15	Square–wave signal	None	
3	E/A	Diagnostic link TxD	Diagnostic socket Pin 20	Square–wave signal	None	
4	E	Ground terminal 31	Ground connection	B–	None	
5	E	Terminal 15	Fuse	12 V	ON	

E = Input, A = Output, M = Ground

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BODY ELECTRONICS MODULE (EKM)

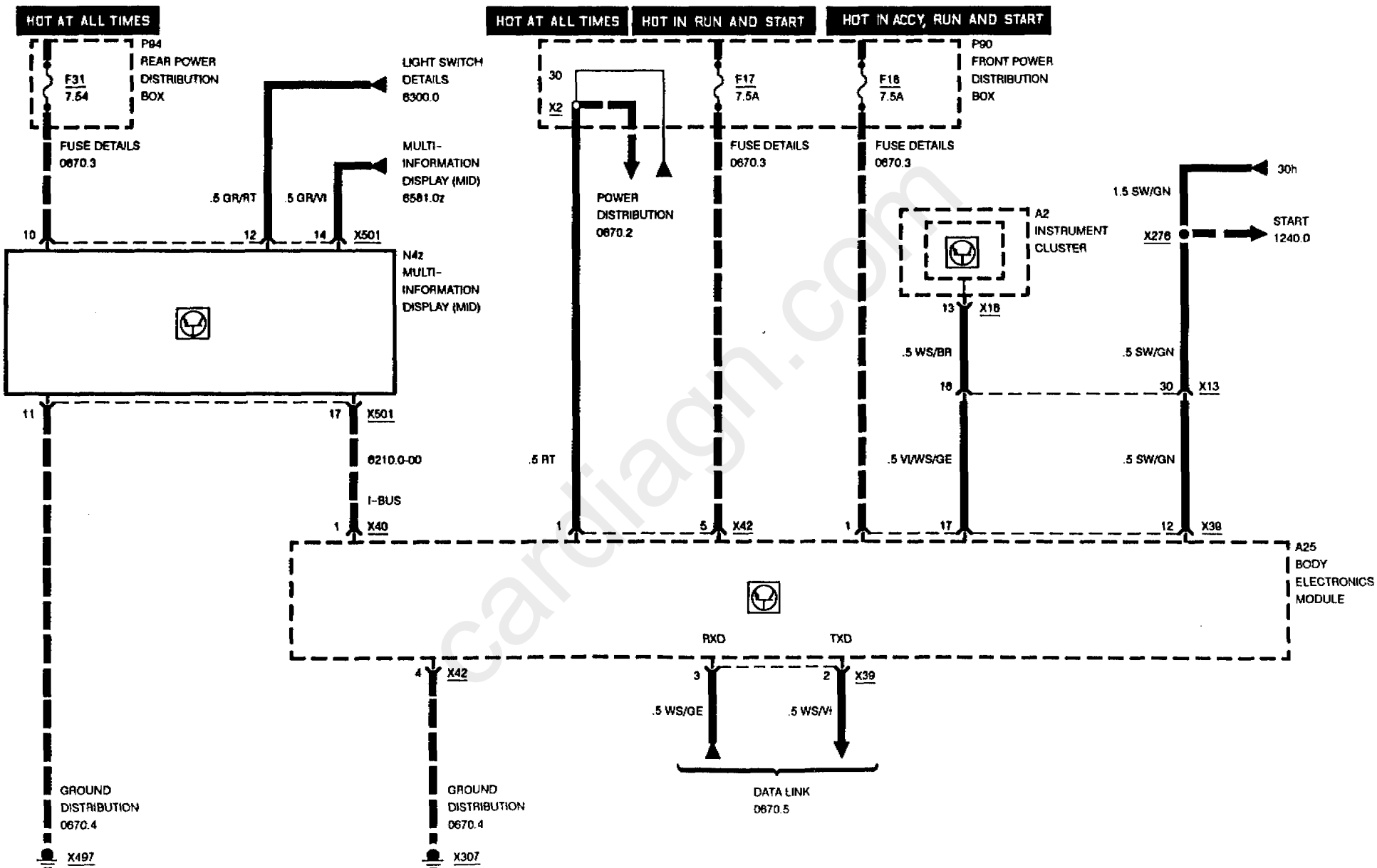
INSTRUMENTATION BUS (I-BUS)



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BMW 8 — BODY ELECTRONICS MODULE (EKM)

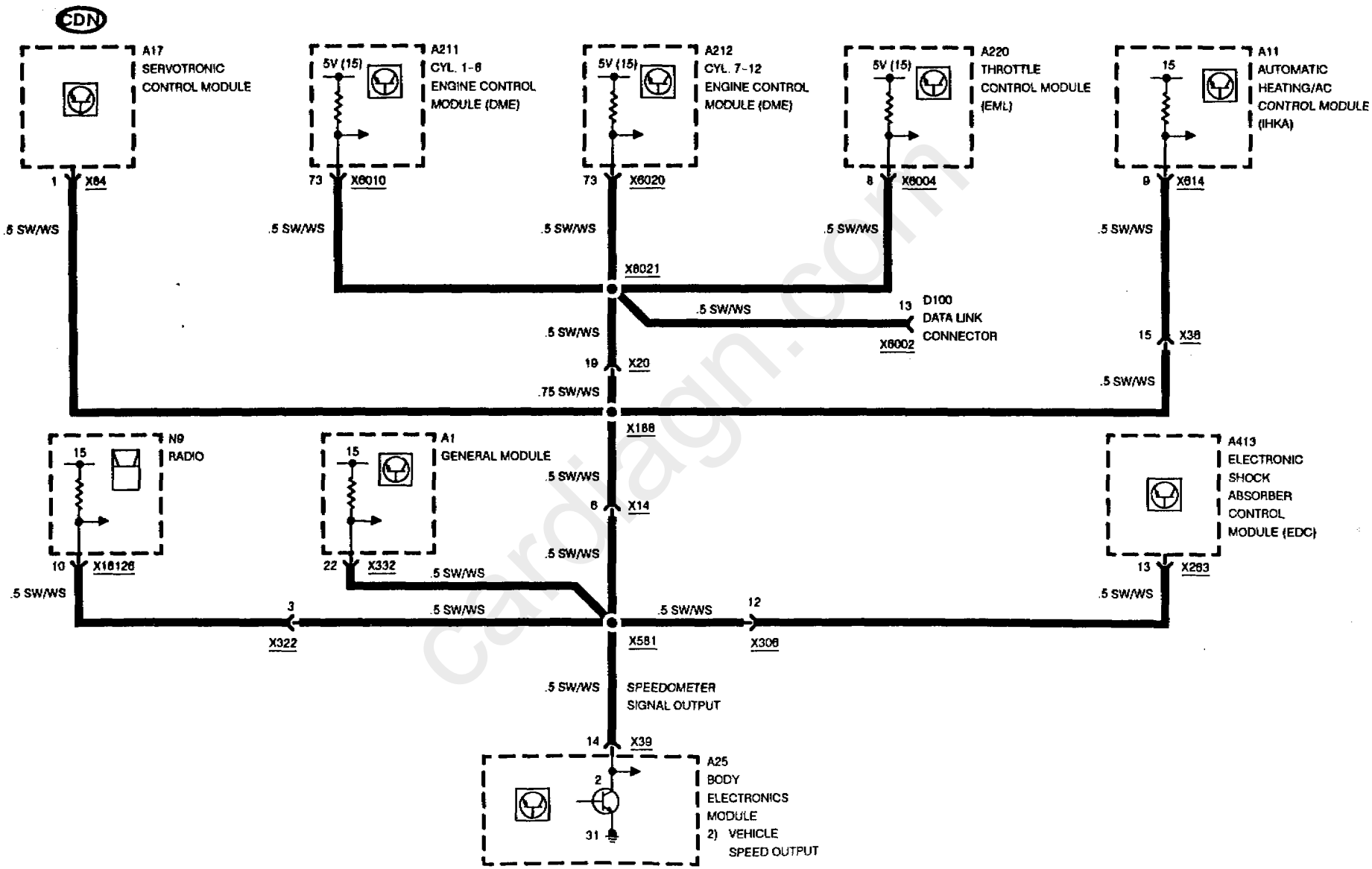
ANTI-THEFT HORN (DWA)



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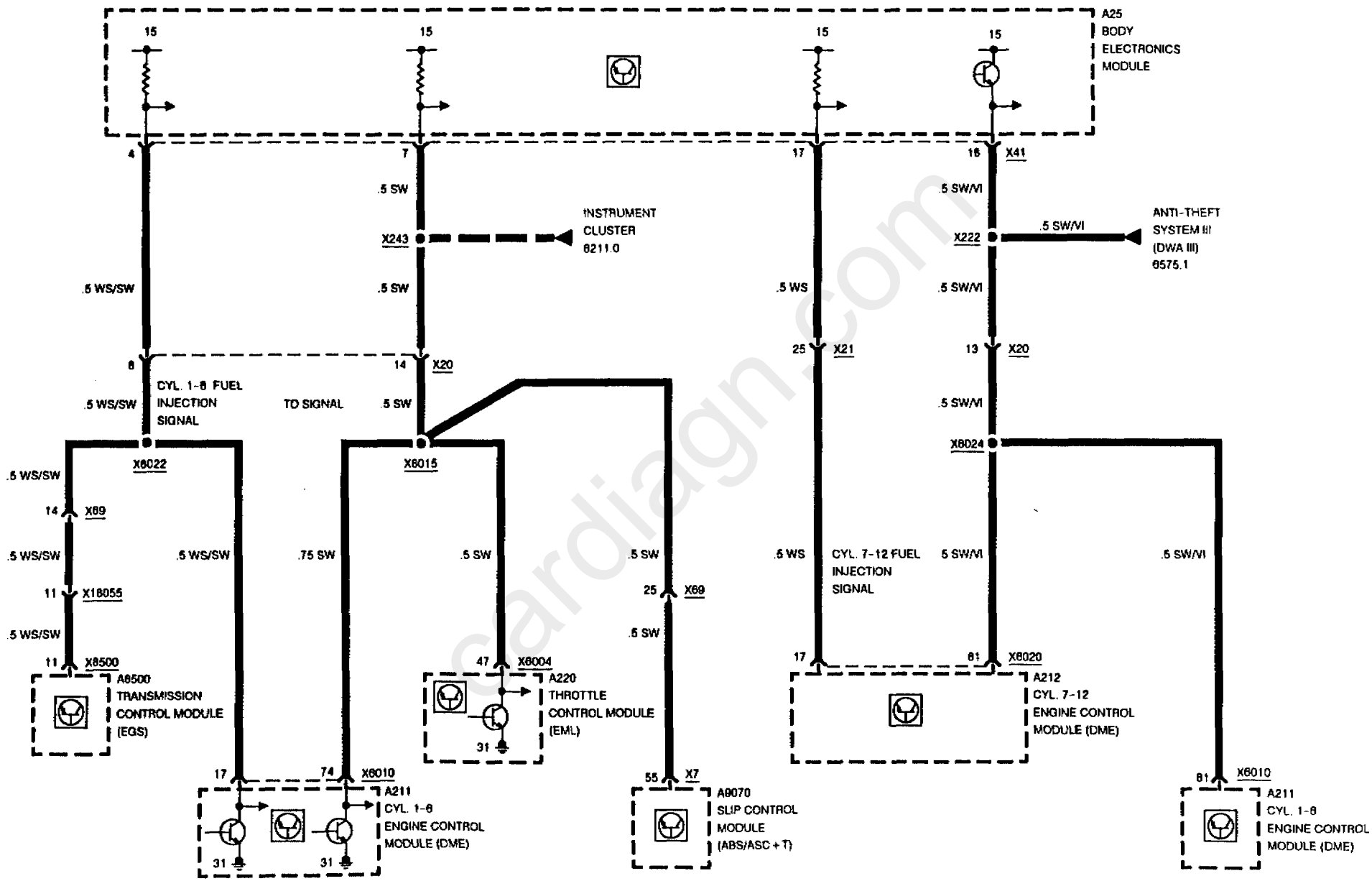
BODY ELECTRONICS MODULE (EKM)

SIGNAL-OUTPUT SPEEDOMETER



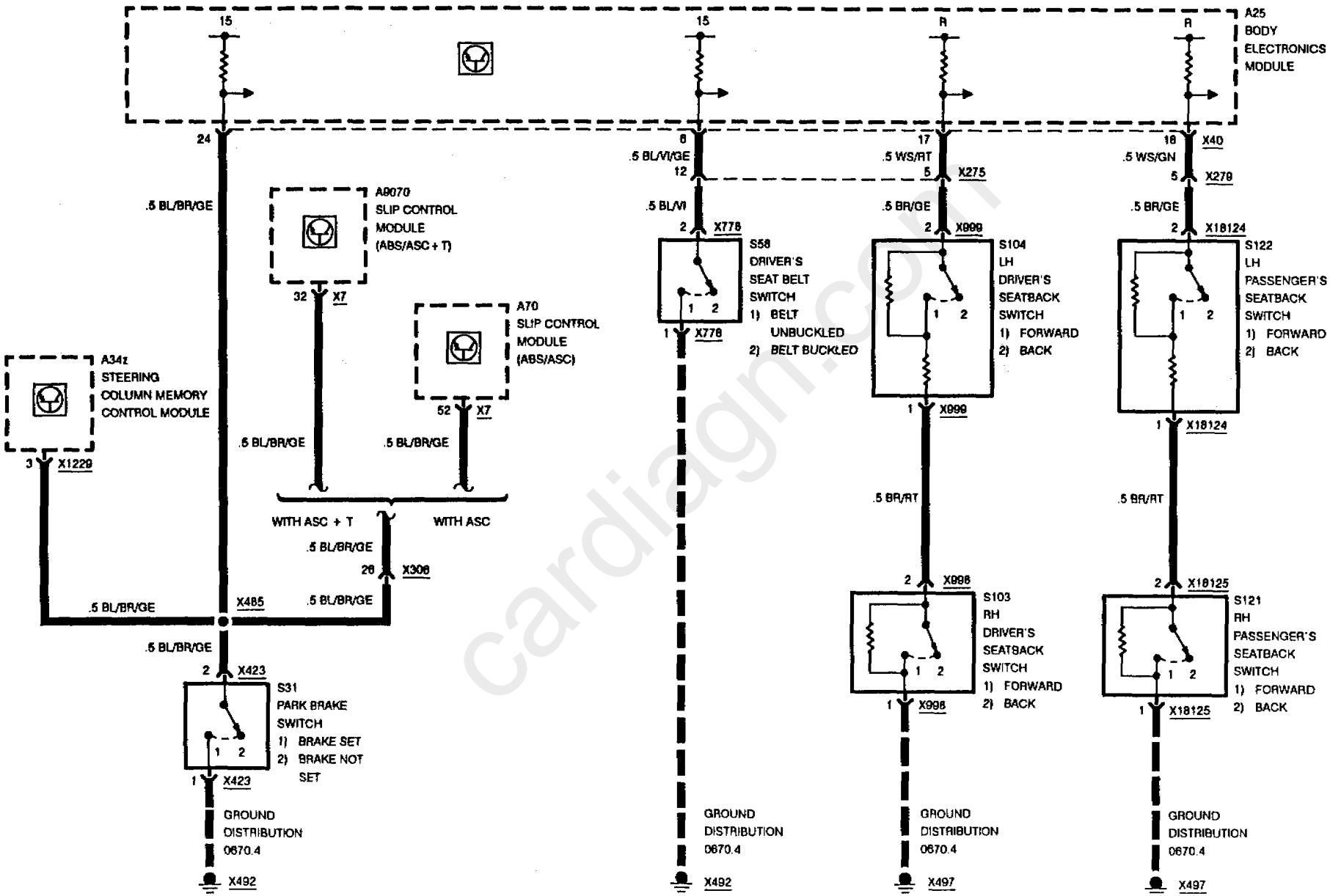
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BODY ELECTRONICS MODULE (EKM)



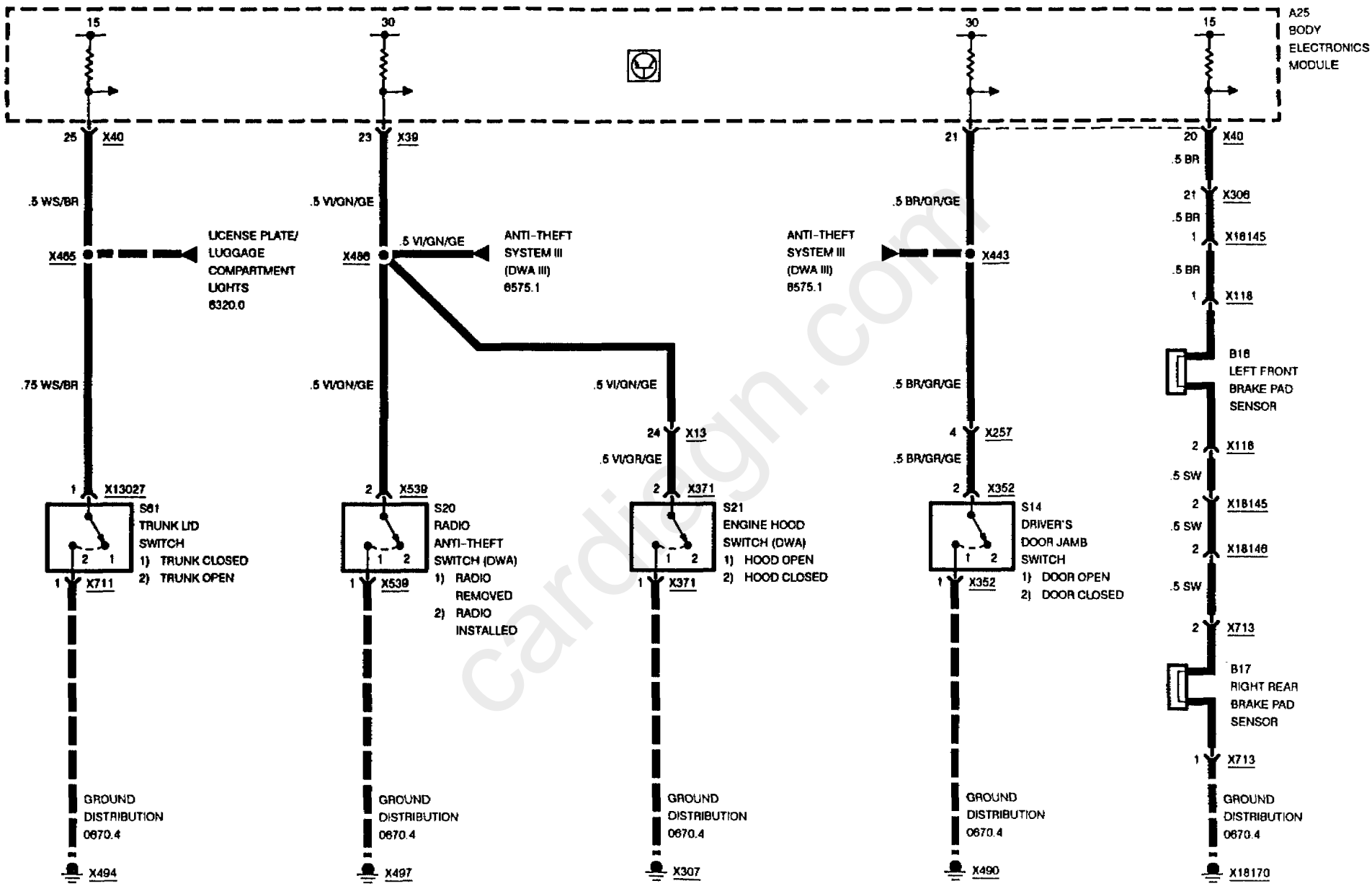
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BODY ELECTRONICS MODULE (EKM)



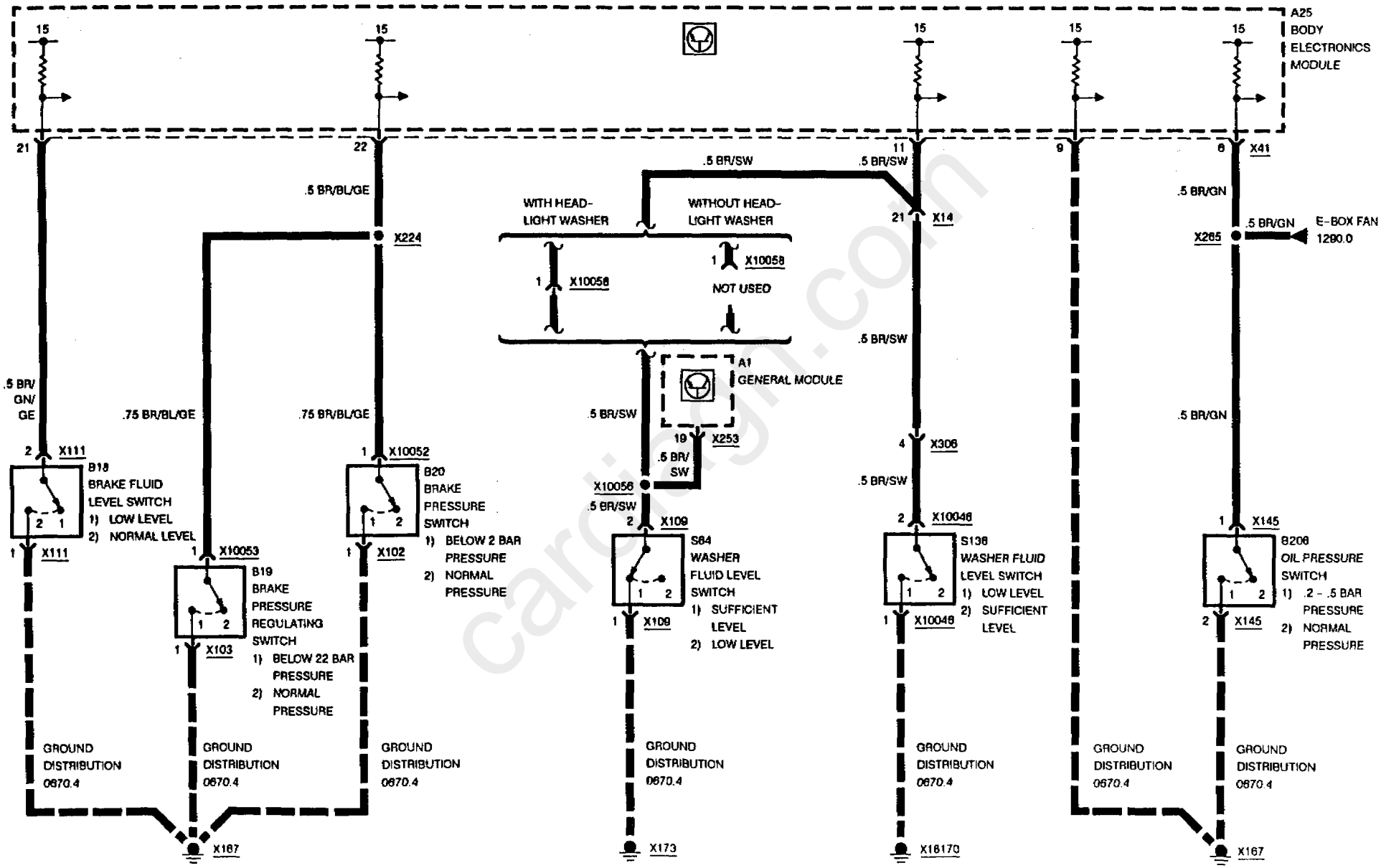
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BODY ELECTRONICS MODULE (EKM)



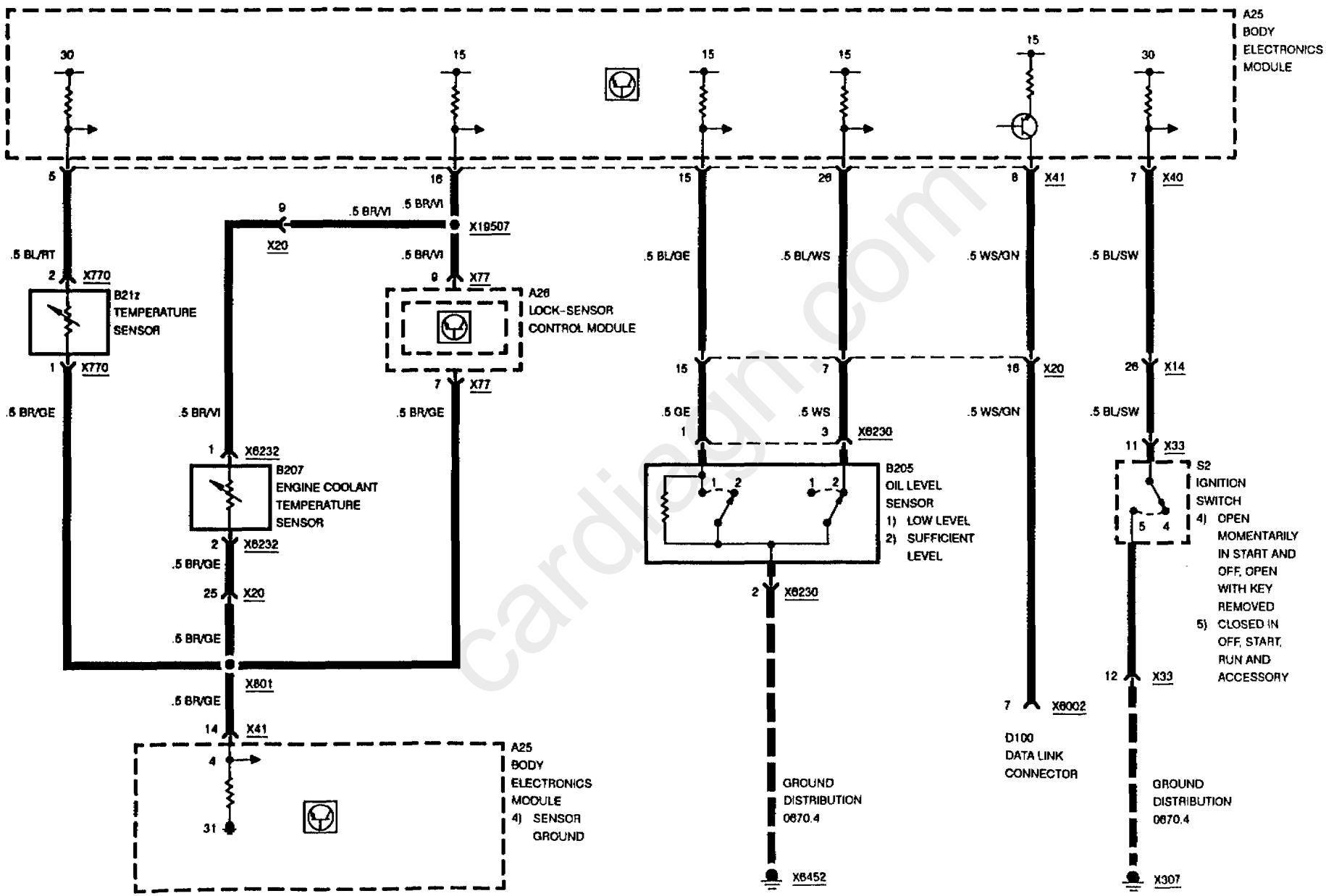
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BMW 8 BODY ELECTRONICS MODULE (EKM)



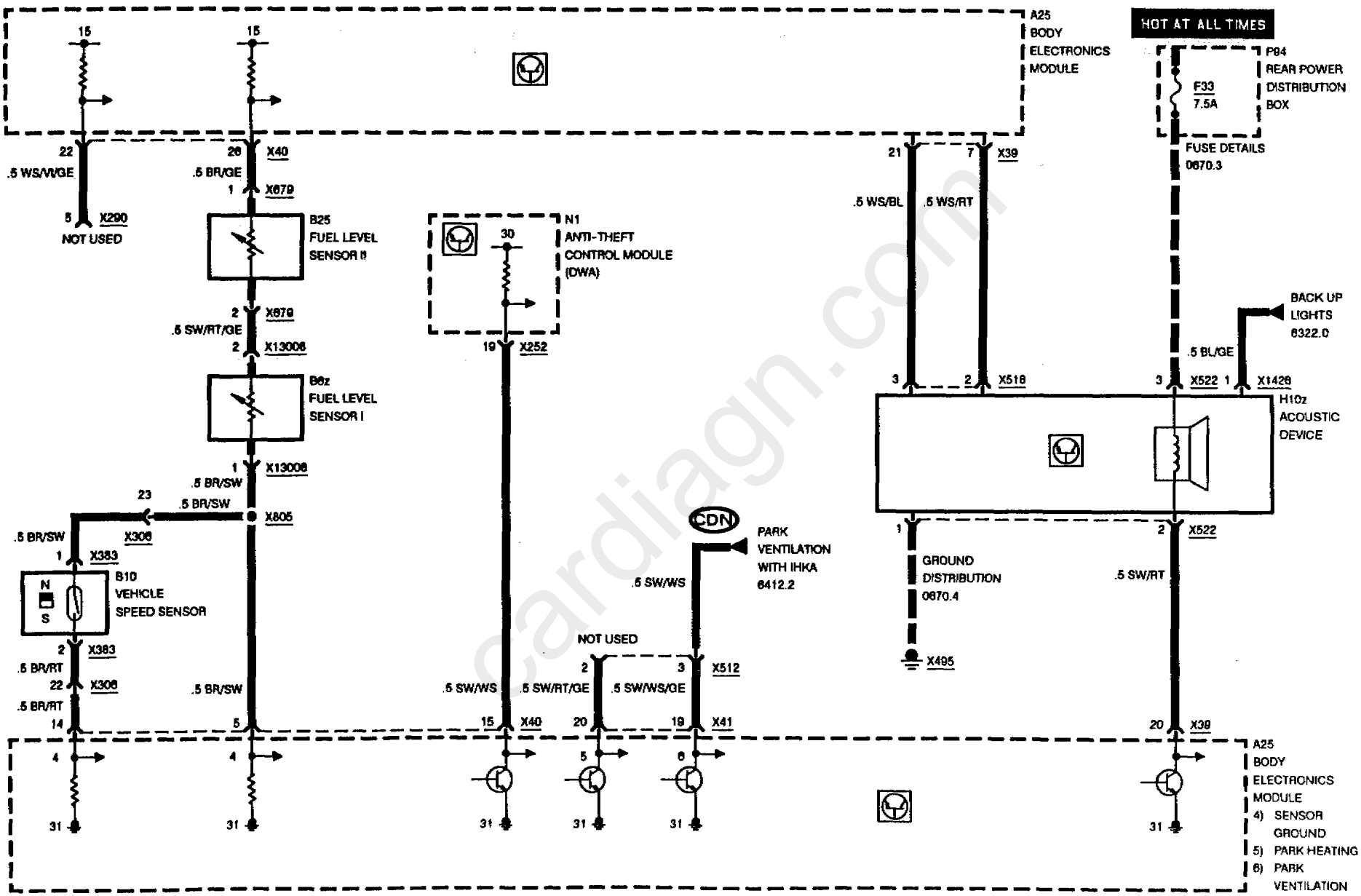
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BODY ELECTRONICS MODULE (EKM)



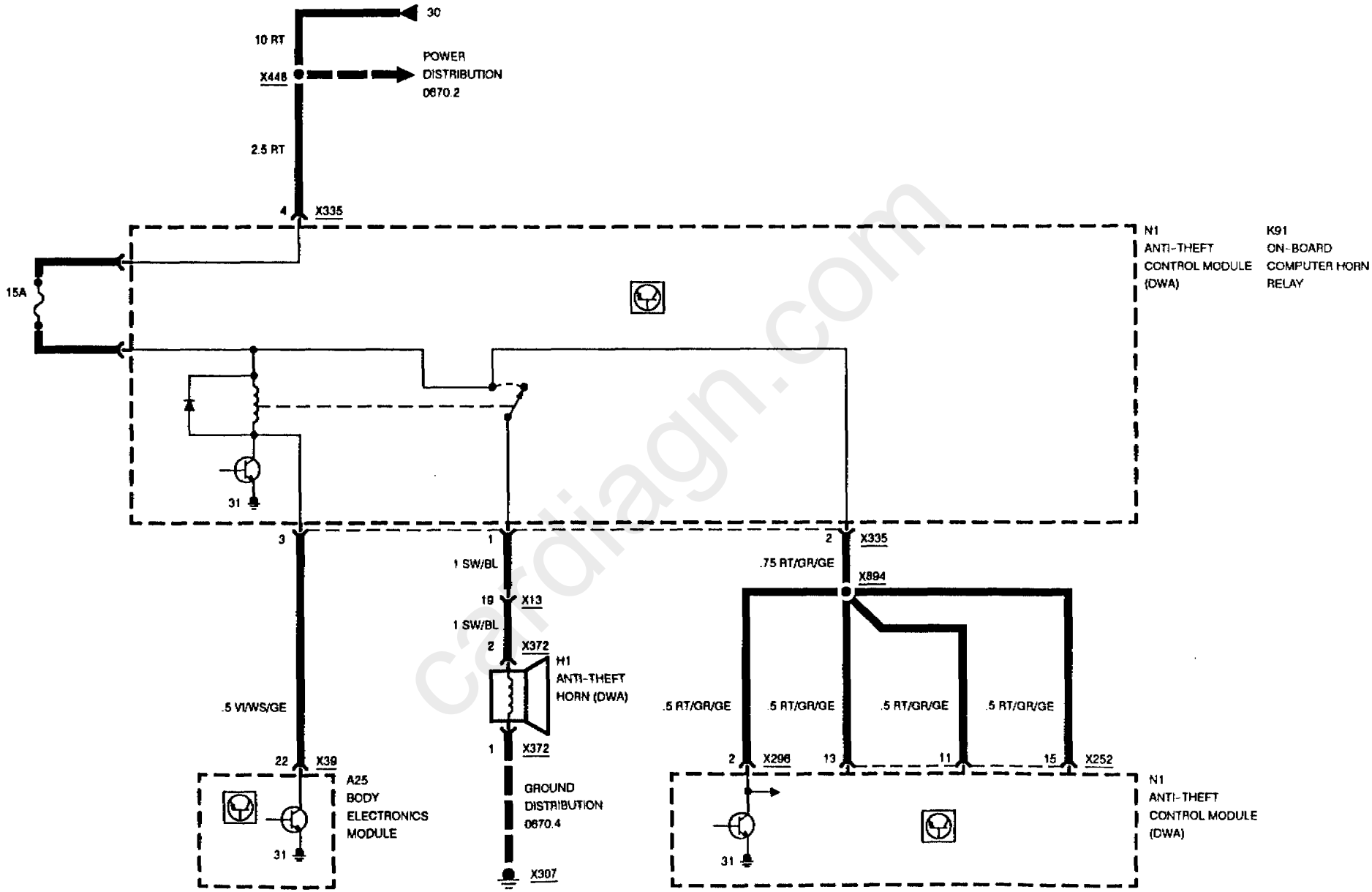
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BODY ELECTRONICS MODULE (EKM)



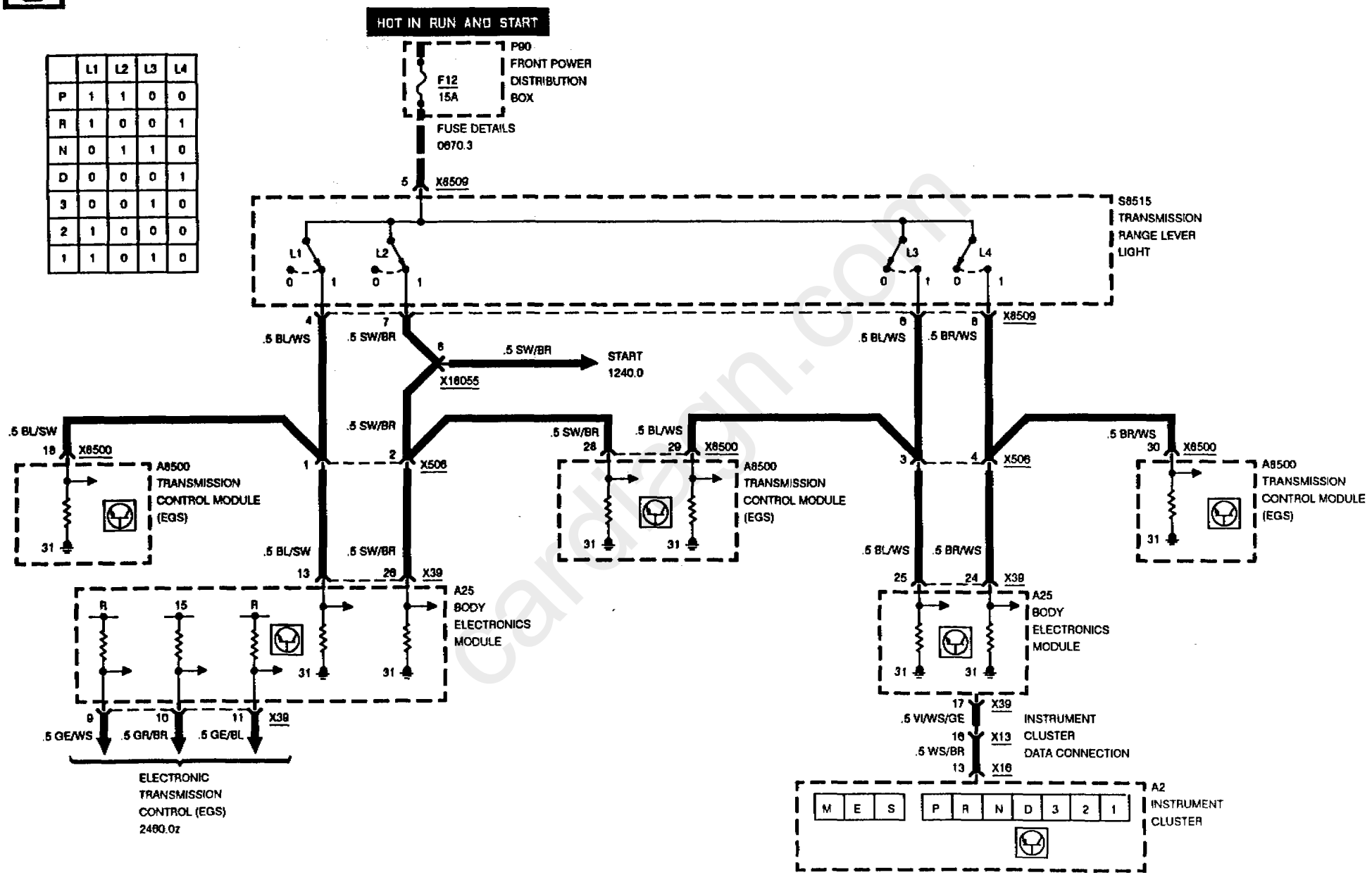
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BODY ELECTRONICS MODULE (EKM)



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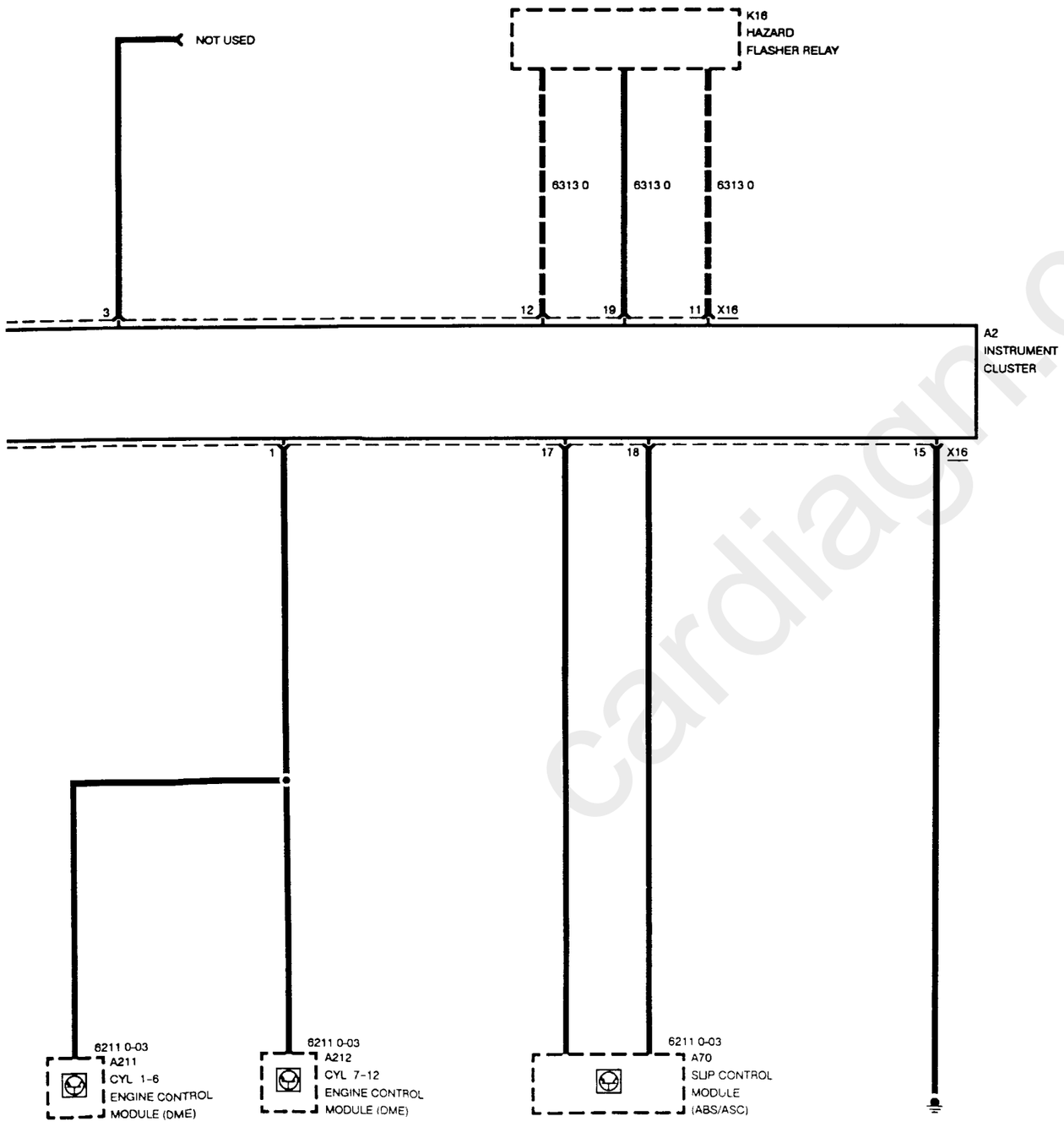
BODY ELECTRONICS MODULE (EKM)



	L1	L2	L3	L4
P	1	1	0	0
R	1	0	0	1
N	0	1	1	0
D	0	0	0	1
3	0	0	1	0
2	1	0	0	0
1	1	0	1	0

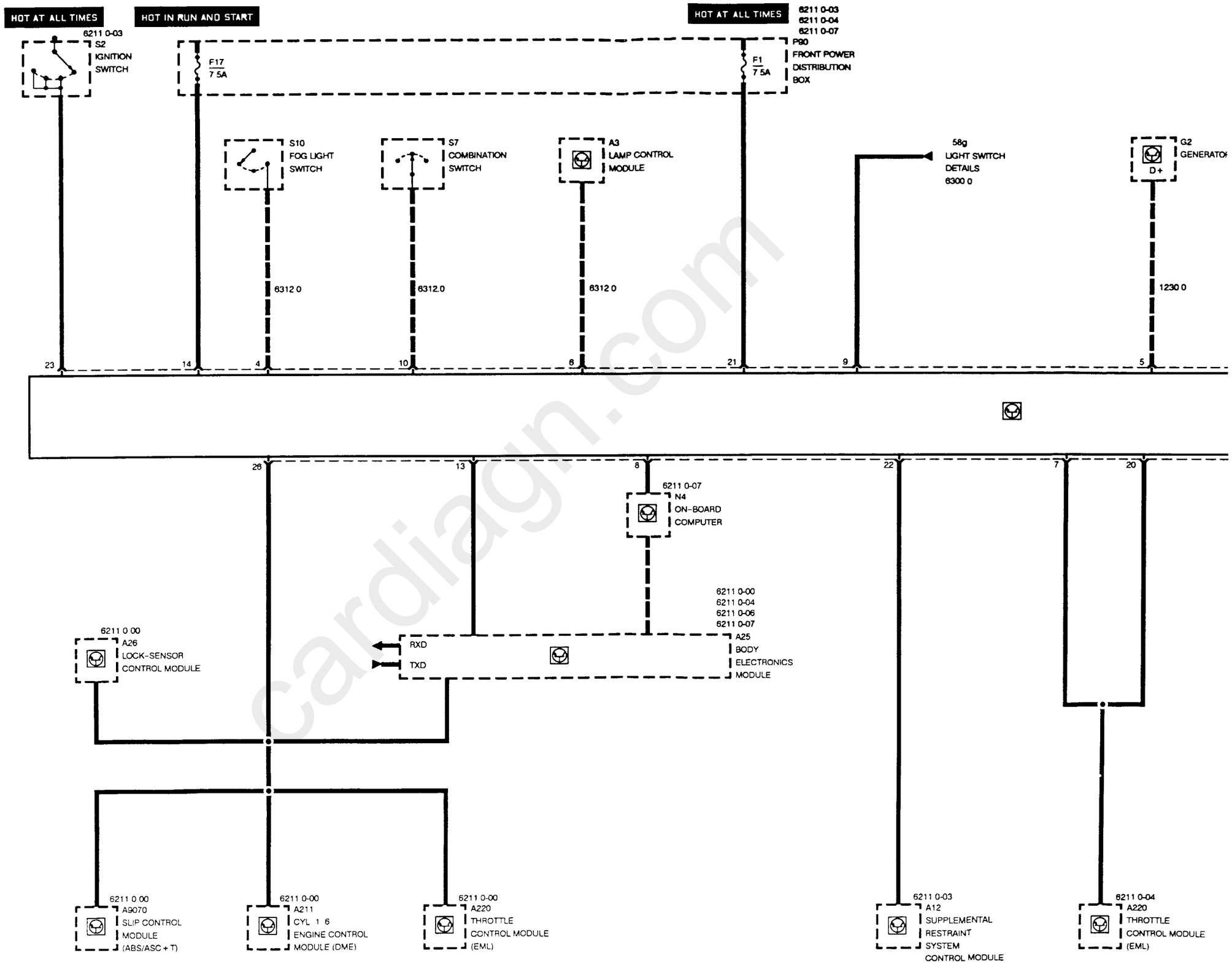
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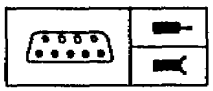


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Pin Assignments

X16

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	E	Check engine (USA only)	DME I/II control units	B–		Lamp on at B–
2	E	Indicator lamp (not connected at present)	active rear axle kinematics (AHK)	B–		Lamp on at B–
3		Battery charge indicator lamp 1	Altermator			
4	E	Rear fog light indicator lamp	Switch	12 V		Lamp on at B+
5		Battery charge indicator lamp 2	Alternator 2	12 V		Lamp on at B+
6	E	Fog light indicator light	LKM control unit	12 V		
7	E	EML warning light	EML control unit	B–		Lamp on at B–, also see Pin 20
8	A	Display lighting electronically dimmed	MID control unit	Low pulses	Display bars	A check can be performed as to whether the display dimming in the instrument cluster is OK
9	E	Terminal 58g, switch and instrument lighting	Dimmer	High pulses	Display bars	See screen display
10	E	High beam indicator	Combination switch	12 V		
11	E	Right turn signal indicator	Turn signal indicator relay	12 V		
12	E	Left turn signal indicator	Turn signal indicator relay	12 V		

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INSTRUMENT CLUSTER

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
13	E/A	Serial interface – instrument cluster data link	EKM control unit	Square–wave signal	Defect code stored in instrument cluster and EKM	Check wire in case of defect
14	E	Terminal 15	Fuses	12 V 0 V	ON OFF	On when ignition switch in position 2
15	M	Ground, terminal 31	Ground	Ground		
16		Not used				
17	E	ASC indicator lamp	ASC control unit	B–		Lamp on at B–
18	E	ABS indicator lamp	ABS control unit	B–		Lamp on at B–
19	E	Trailer turn signal indicator	Turn signal indicator relay	12 V		
20	E	EML warning lamp	EML control unit	B–		Lamp on at B–, also see Pin 7
21	E	Terminal 30	Fuses	12 V		
22	E	Airbag warning lamp	Airbag control unit	B–		
23	E	Terminal R, not protected	Ignition switch	12 V		For airbag indicator lamp
24	A	Provisions, sensor ground	Provisions for engine oil temperature sensor			Resistance measurement with respect to vehicle ground not possible
25	E	Engine oil temperature	Provisions for engine oil temperature sensor	0 – 5 V		
26	E	tD signal (engine speed)	DME I control unit	Square–wave signal		

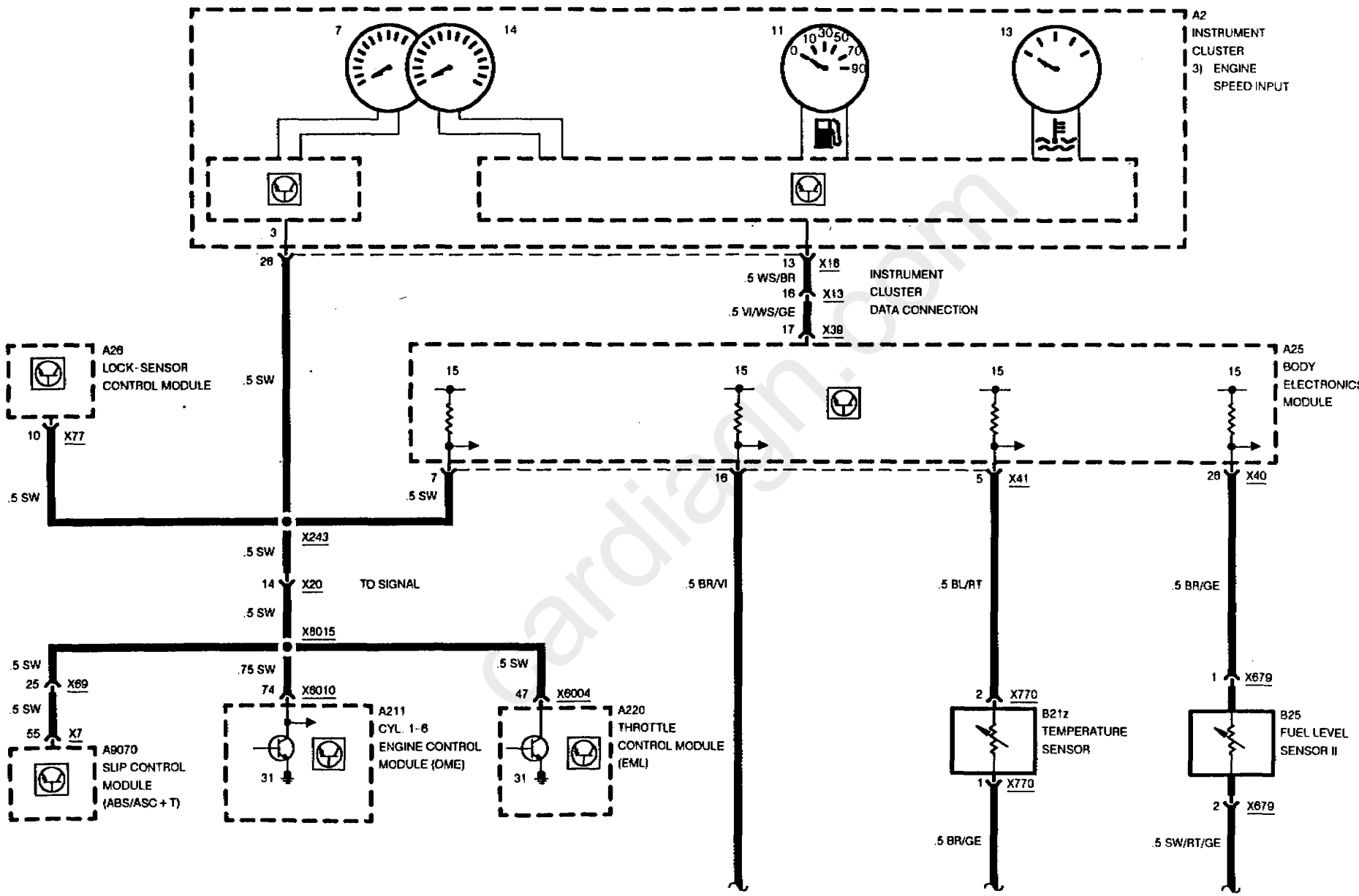
E = Input, A = Output, M = Ground

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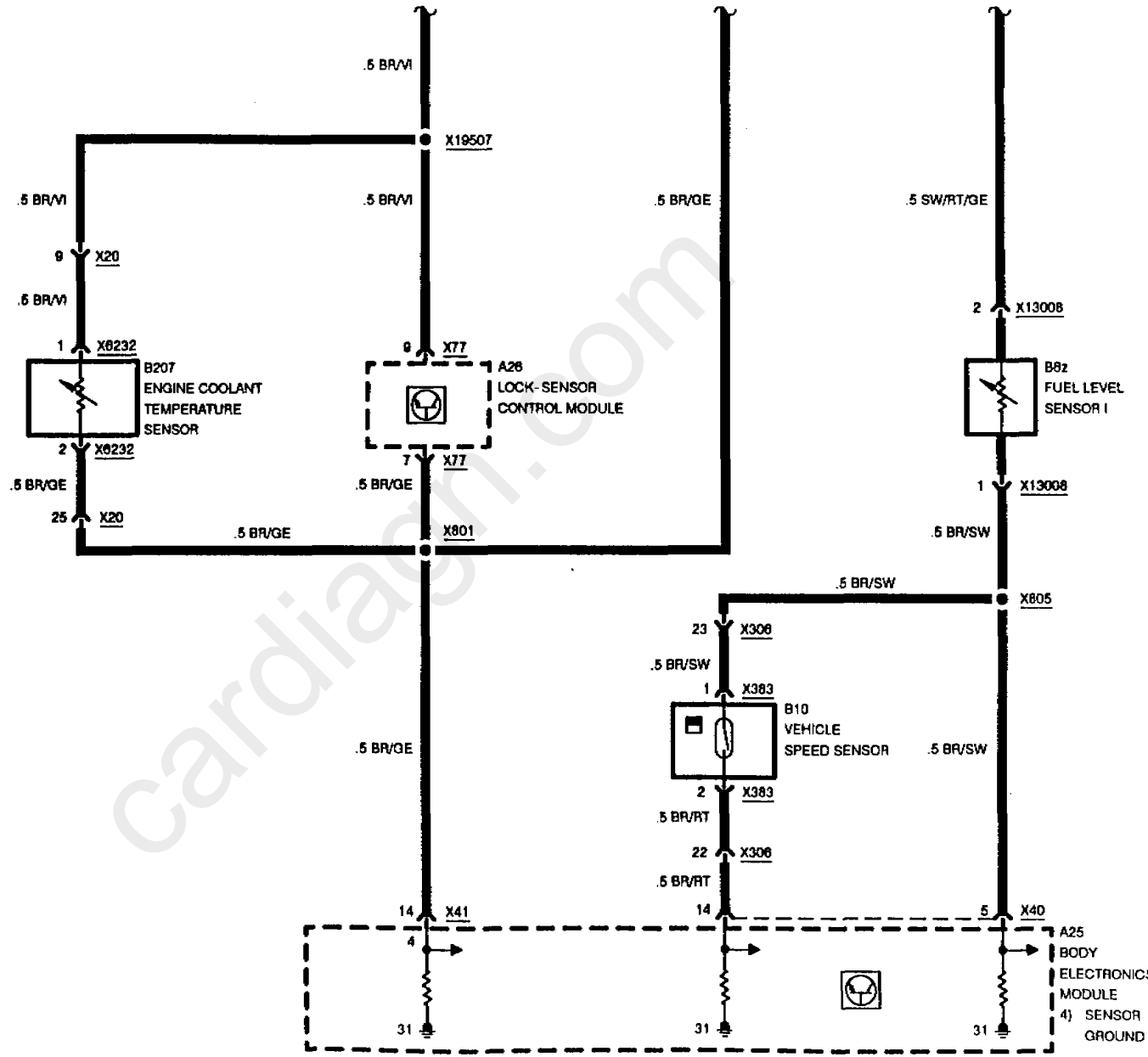
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INSTRUMENT CLUSTER

INDICATORS



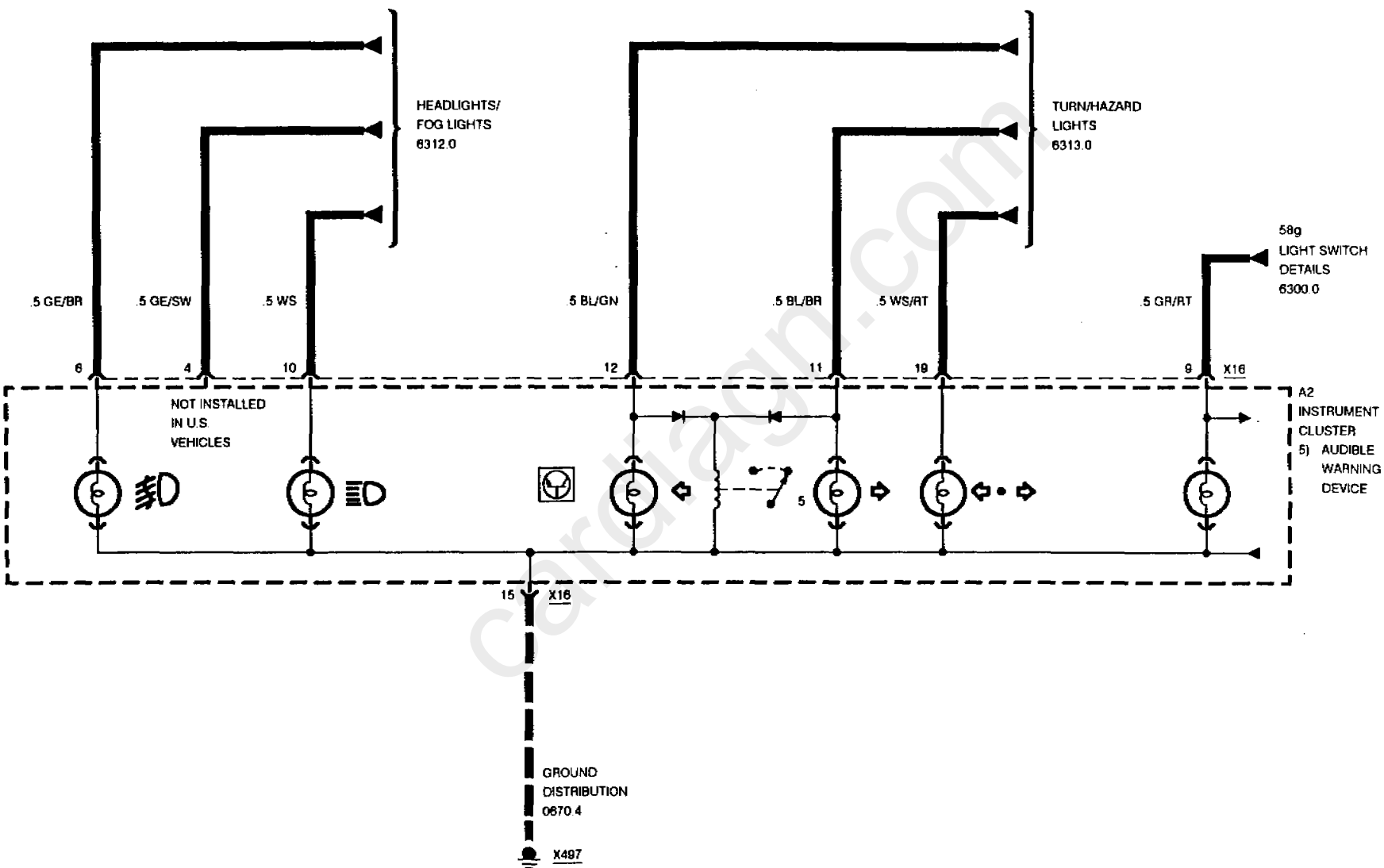
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INSTRUMENT CLUSTER

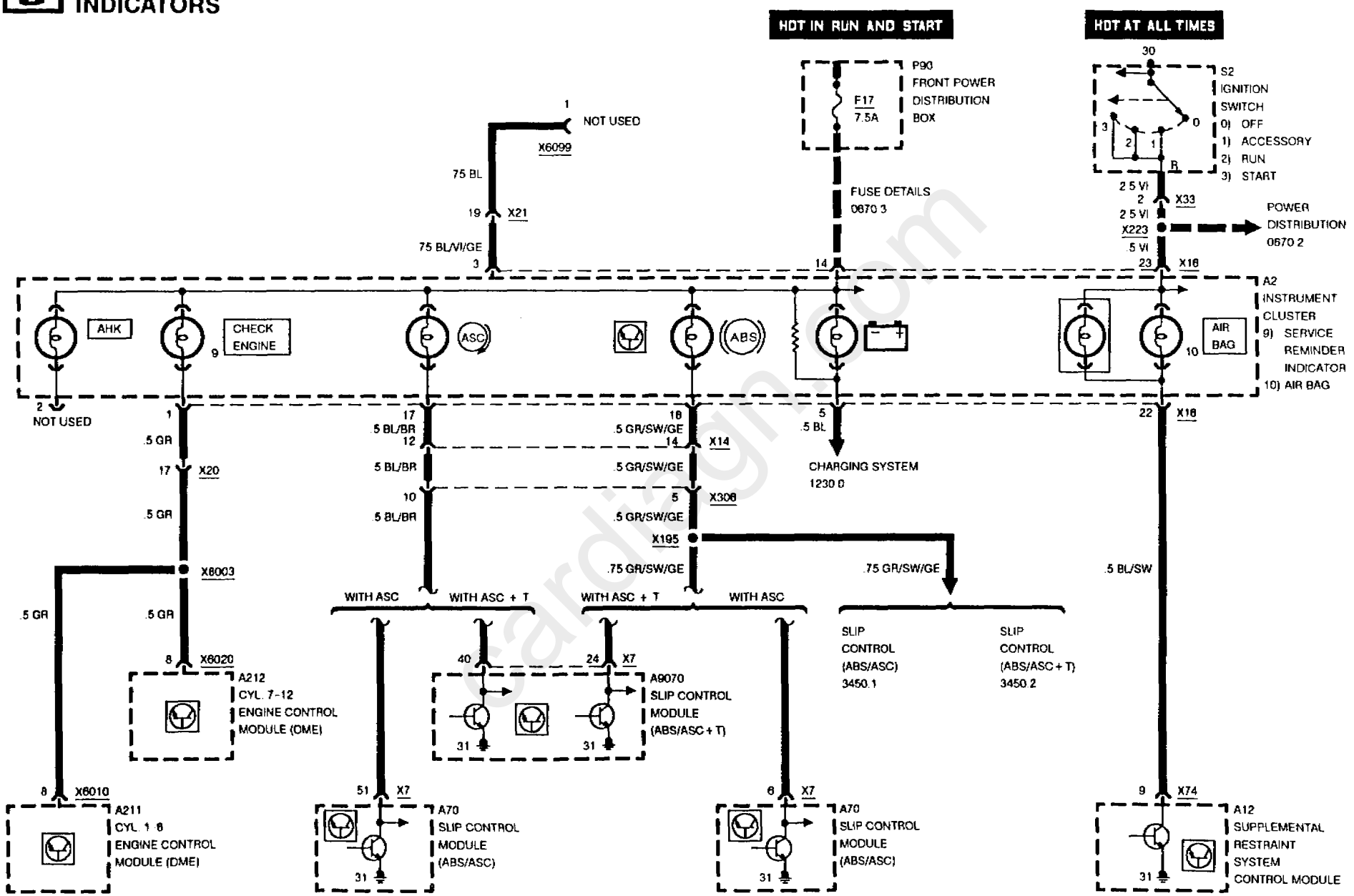
INDICATORS



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INSTRUMENT CLUSTER

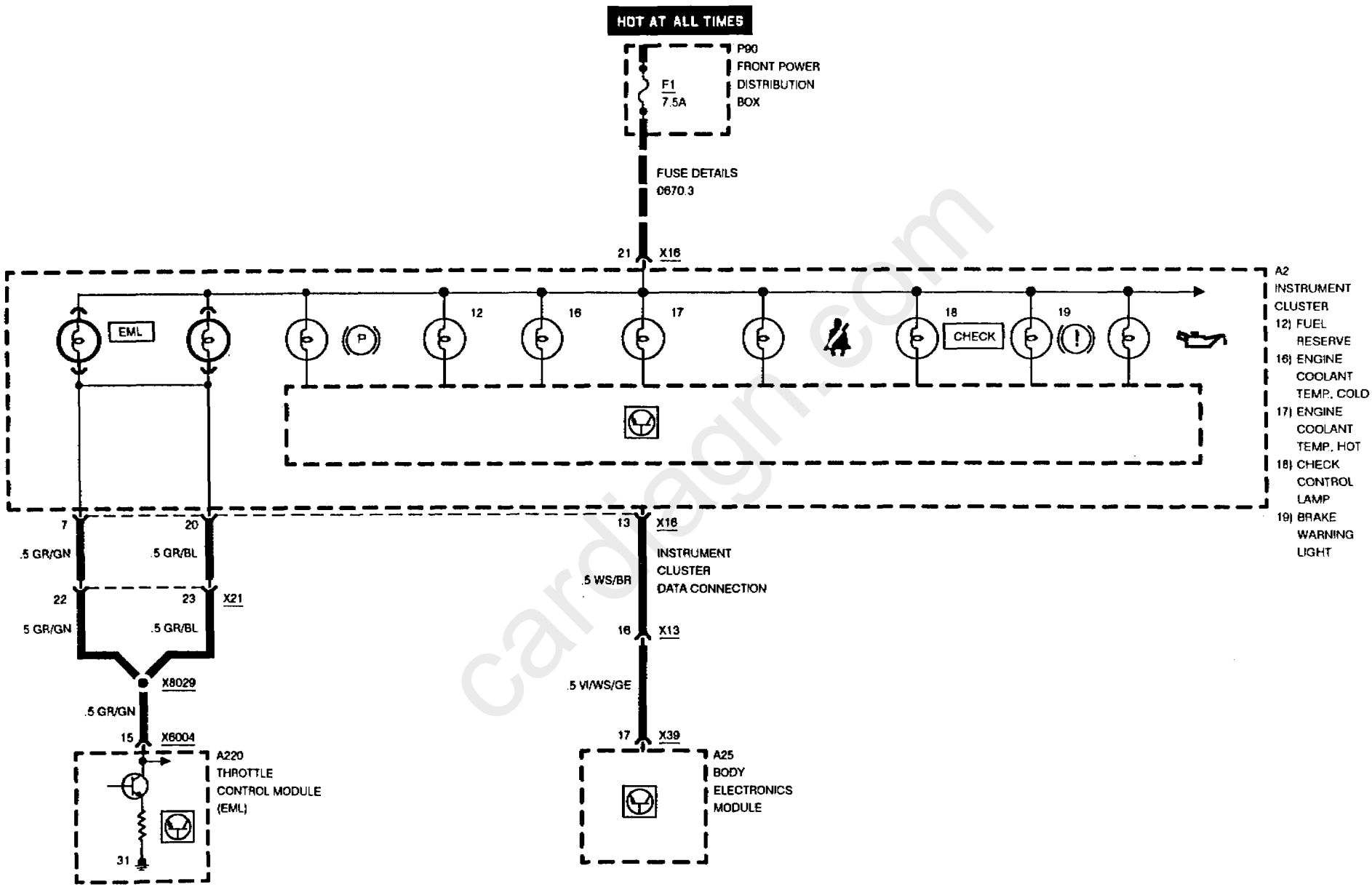
INDICATORS



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INSTRUMENT CLUSTER

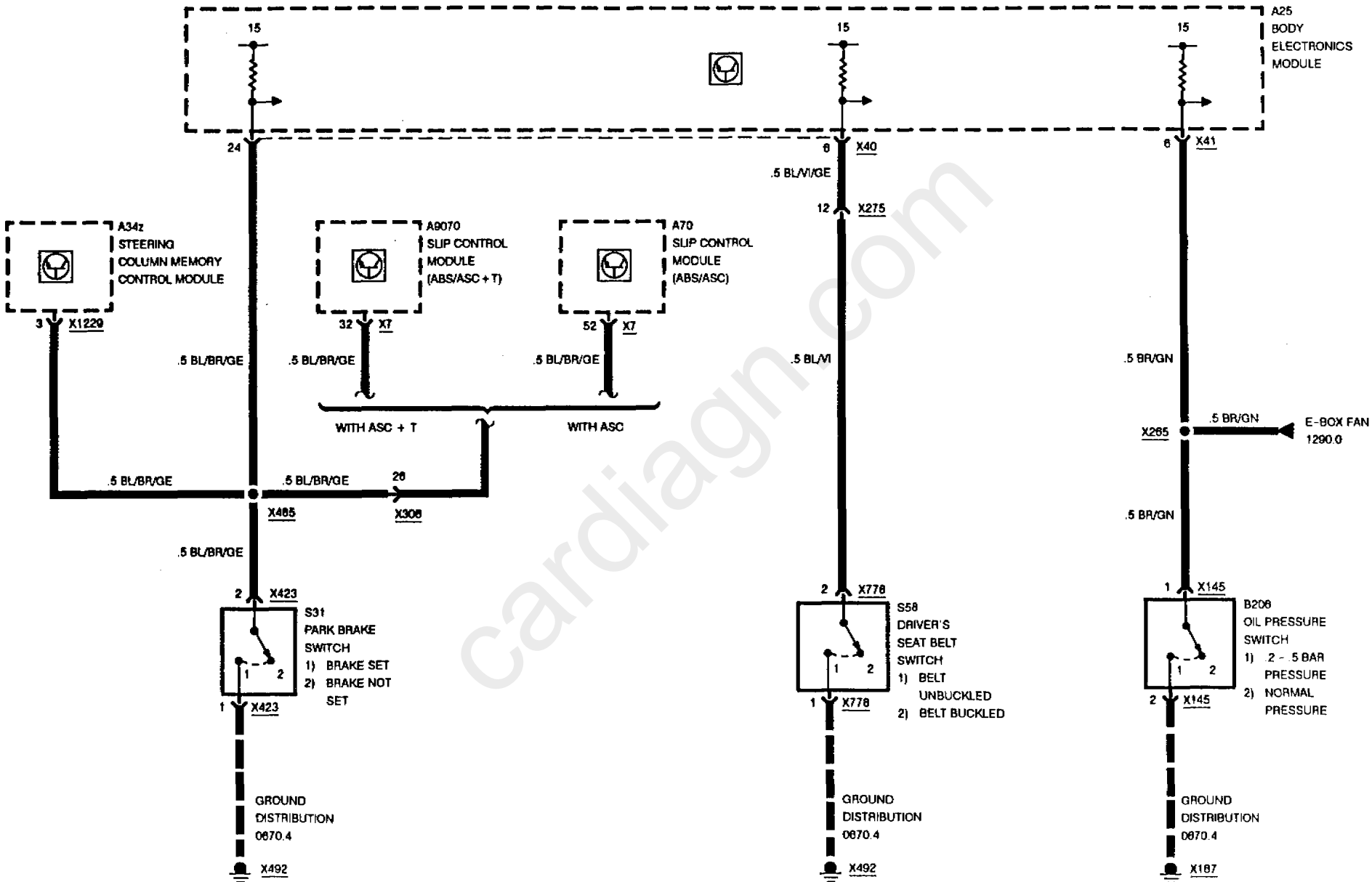
INDICATORS



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INSTRUMENT CLUSTER

INDICATOR LIGHTS, INPUTS

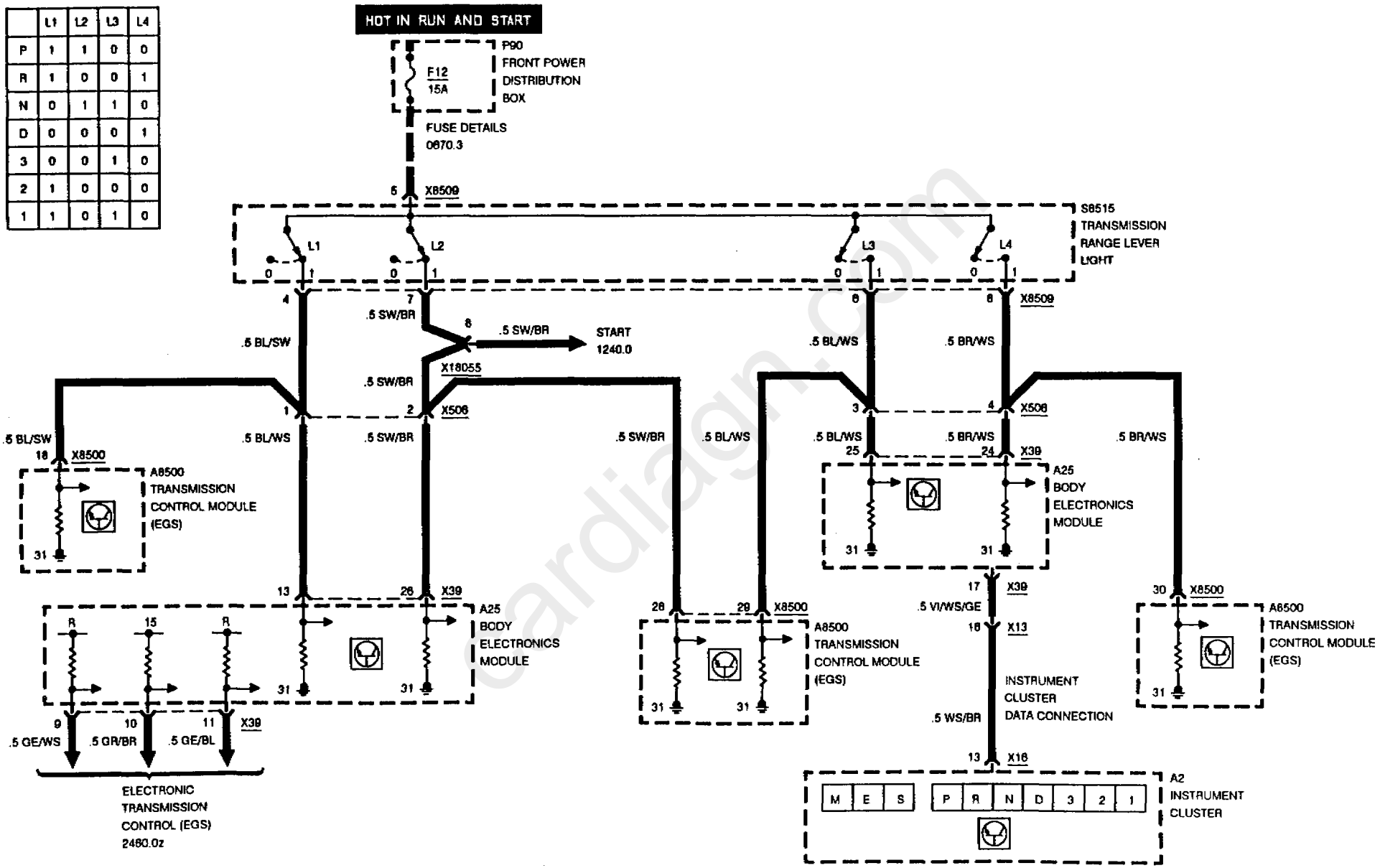


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INSTRUMENT CLUSTER

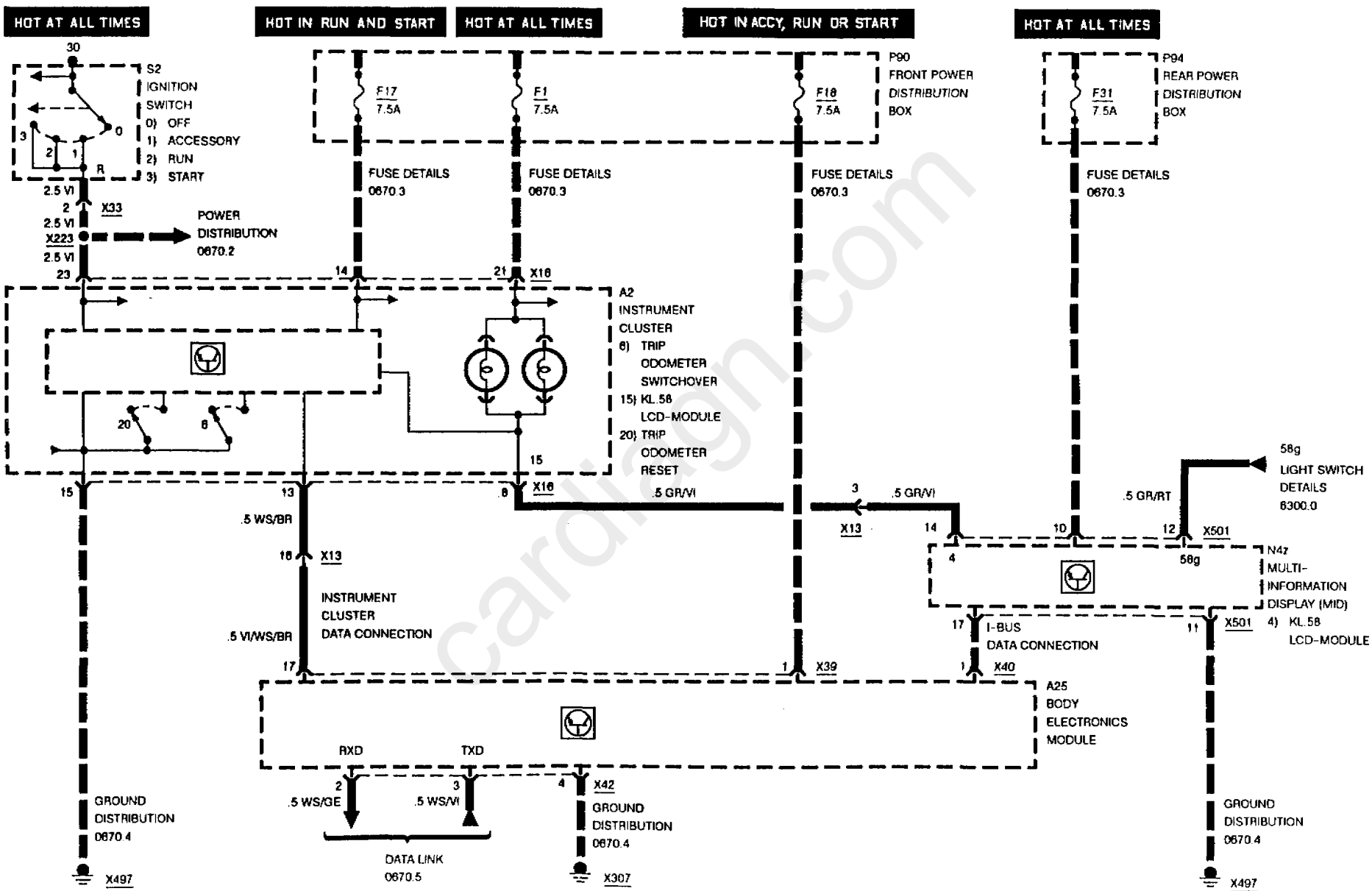
GEAR SELECTOR

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P	1	1	0	0
R	1	0	0	1
N	0	1	1	0
D	0	0	0	1
3	0	0	1	0
2	1	0	0	0
1	1	0	1	0



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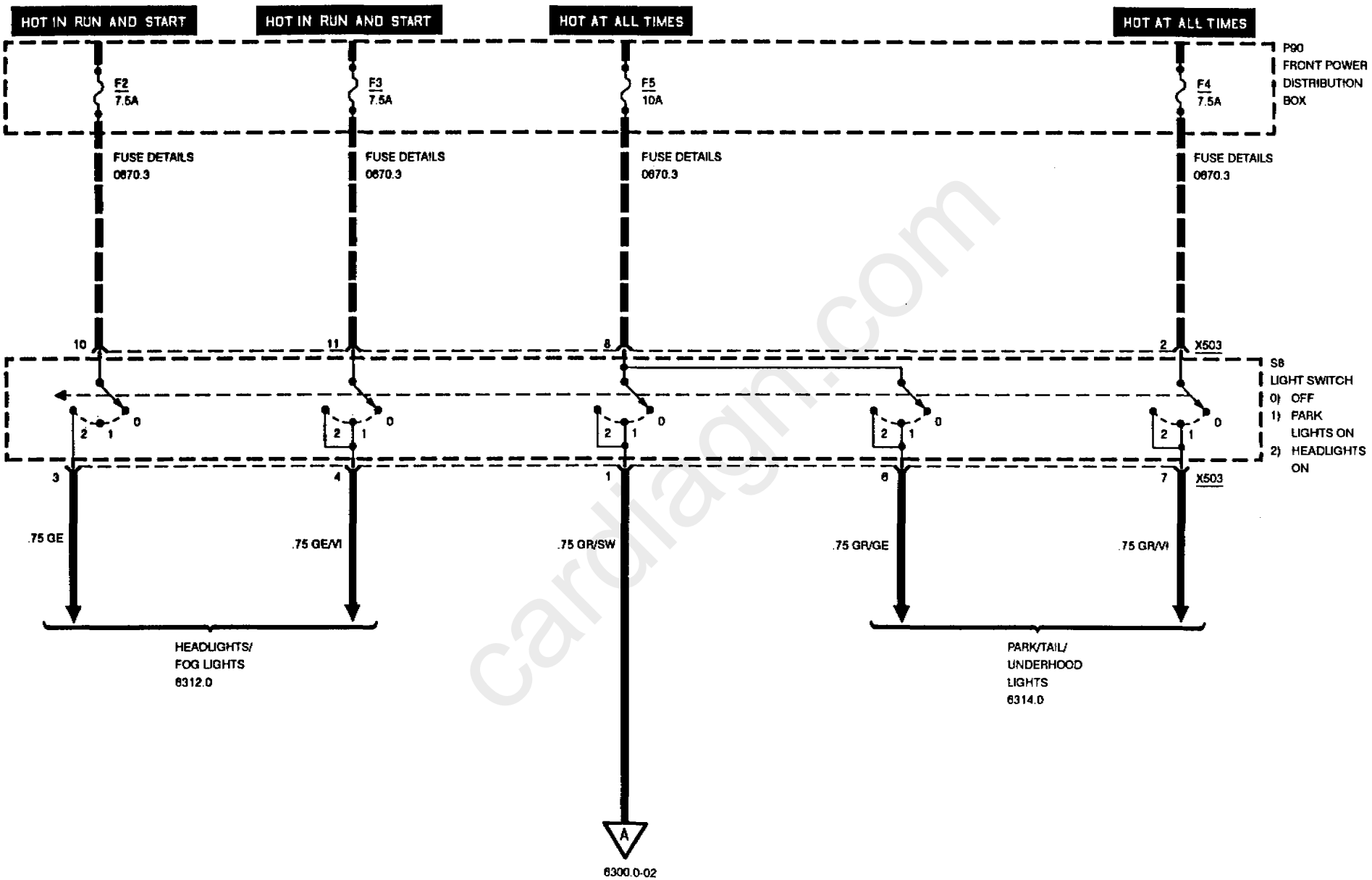
INSTRUMENT CLUSTER



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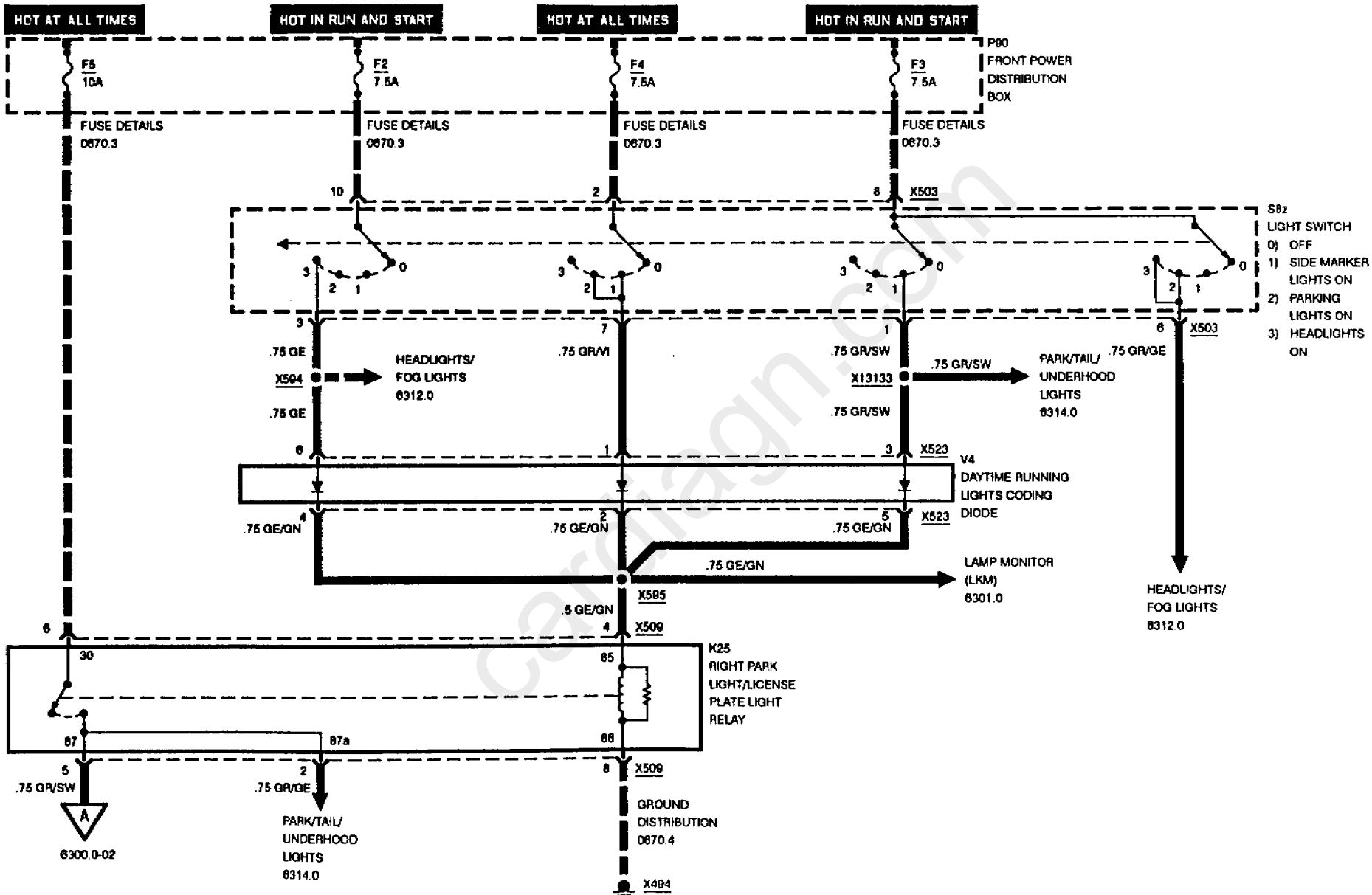
LIGHT SWITCH DETAILS

USA



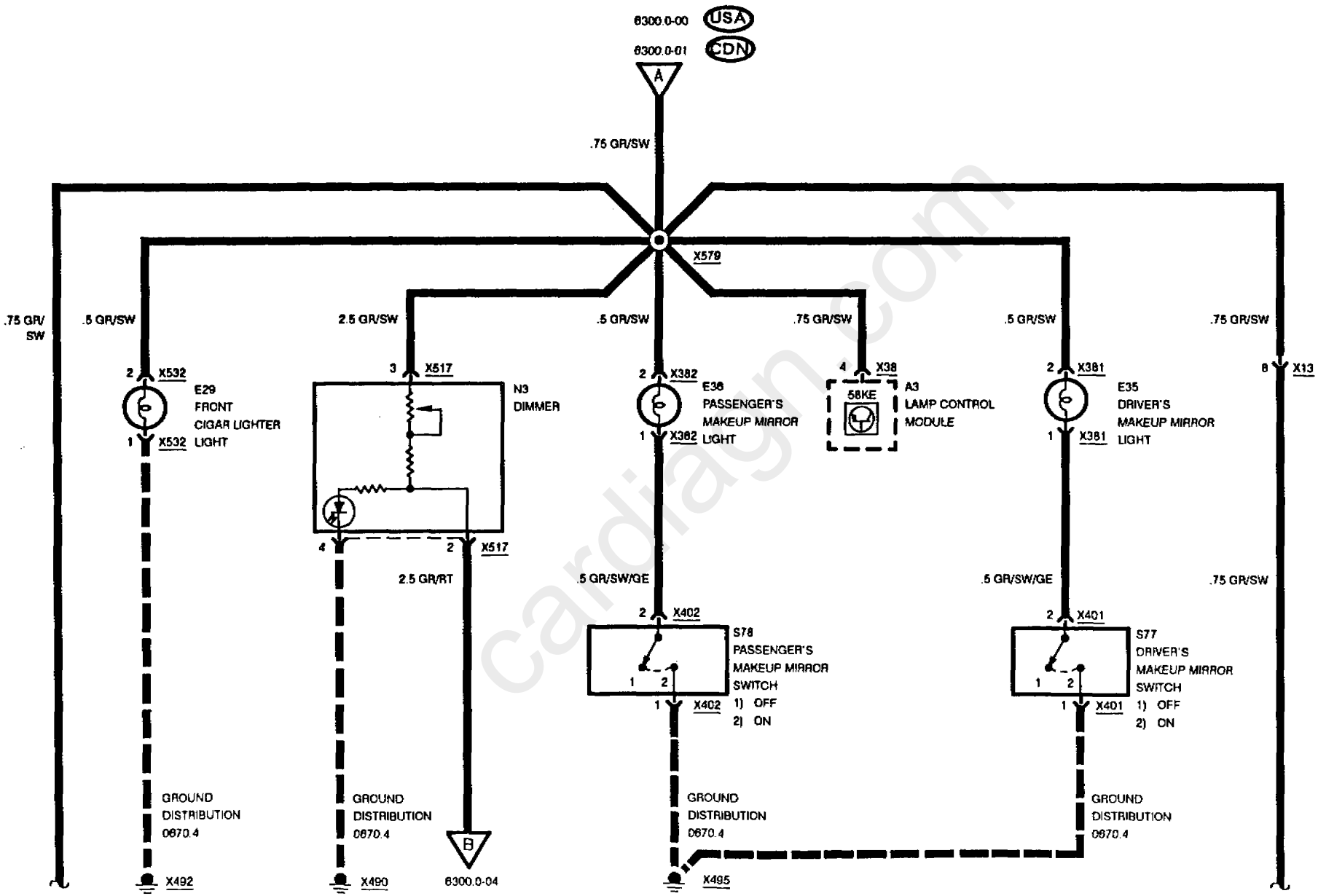
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LIGHT SWITCH DETAILS

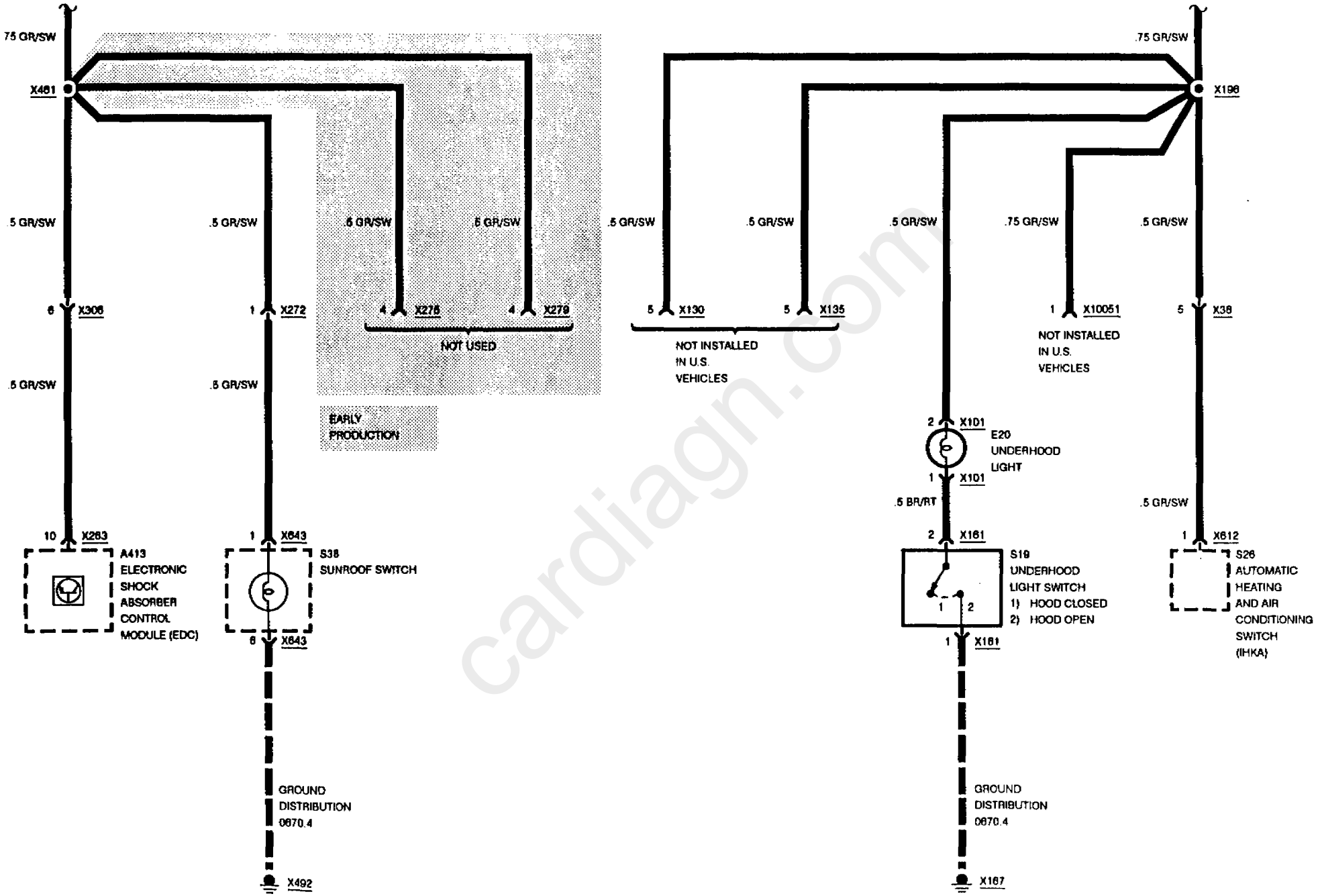


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LIGHT SWITCH DETAILS

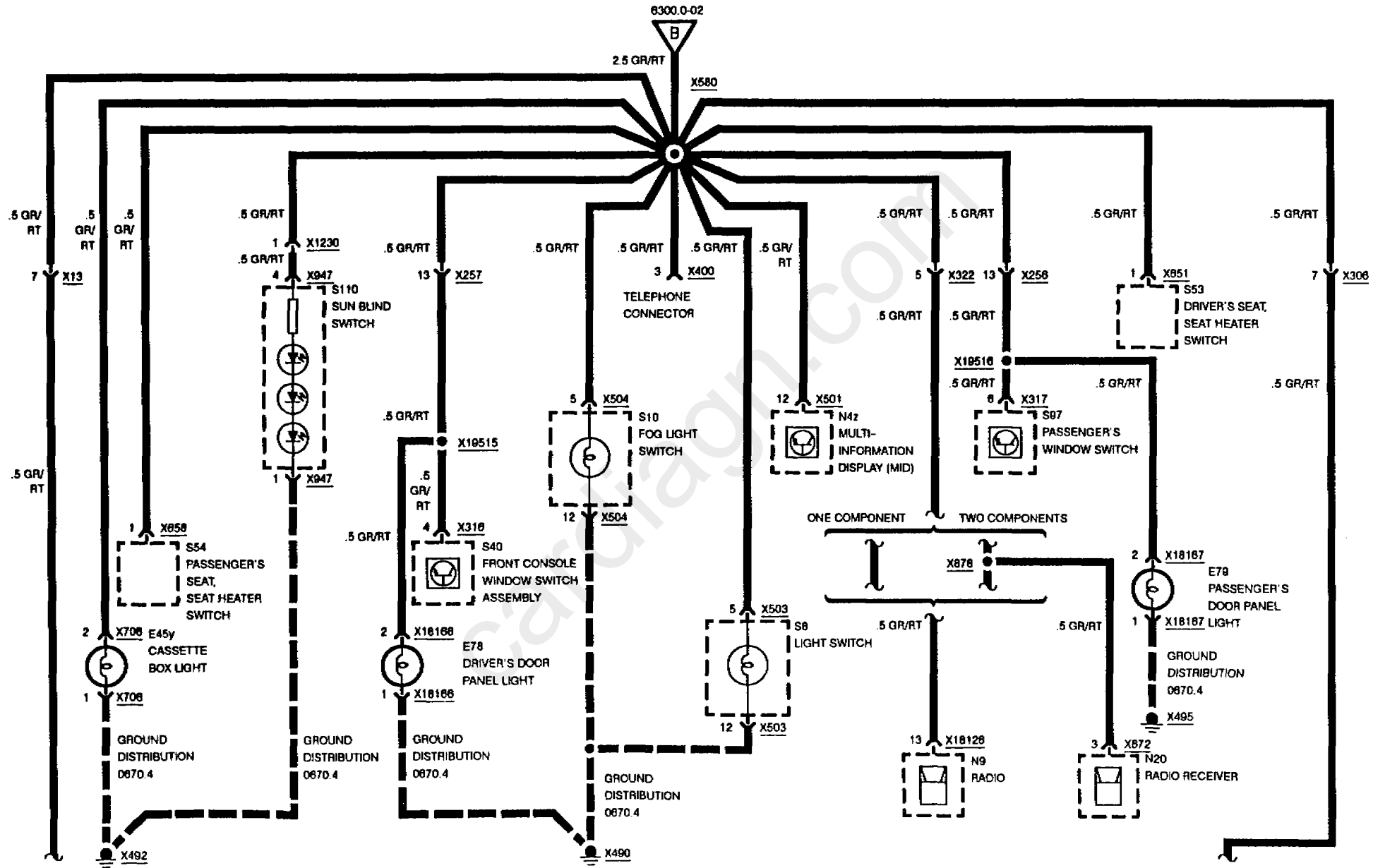


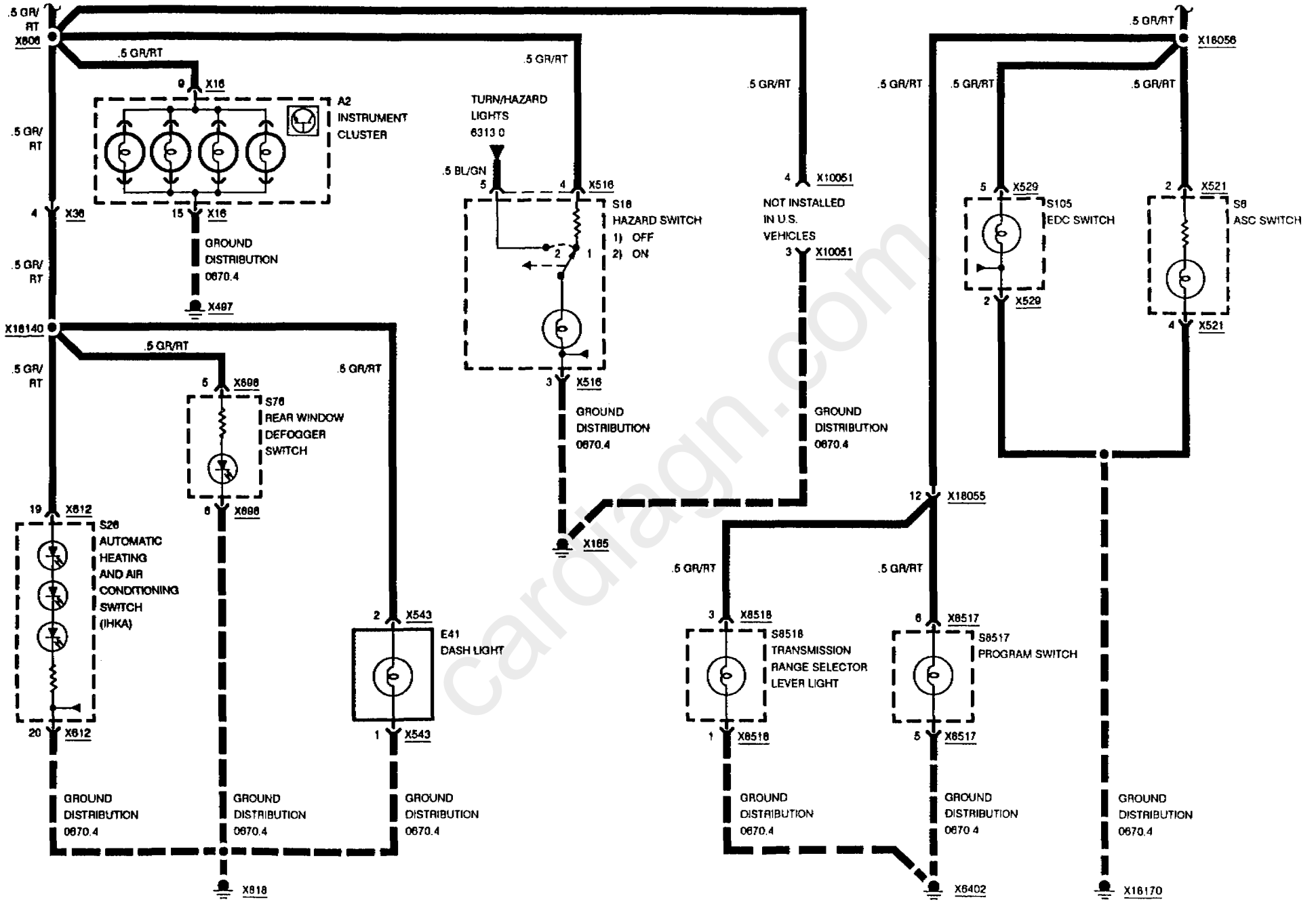
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LIGHT SWITCH DETAILS





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LAMP MONITOR (LKM)

BLOCK DIAGRAM

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CY, RUN AND START

P90
FRONT POWER
DISTRIBUTION
BOX

F8
7.5A

6301 0-05
6301 0-08
S29
BRAKE LIGHT
SWITCH

6301 0-03
E26
LEFT
FOG LIGHT

E27
RIGHT
FOG LIGHT

6301 0-05
E43
LEFT
LICENSE PLATE
LIGHT

E44
RIGHT
LICENSE PLATE
LIGHT

A3
LAMP CONTROL
MODULE

A= X12
B= X38

6301 0-08
P90
30
X3
FRONT POWER
DISTRIBUTION
BOX

6301 0-08
K39
CONCEALING
HEADLIGHTS
RELAY

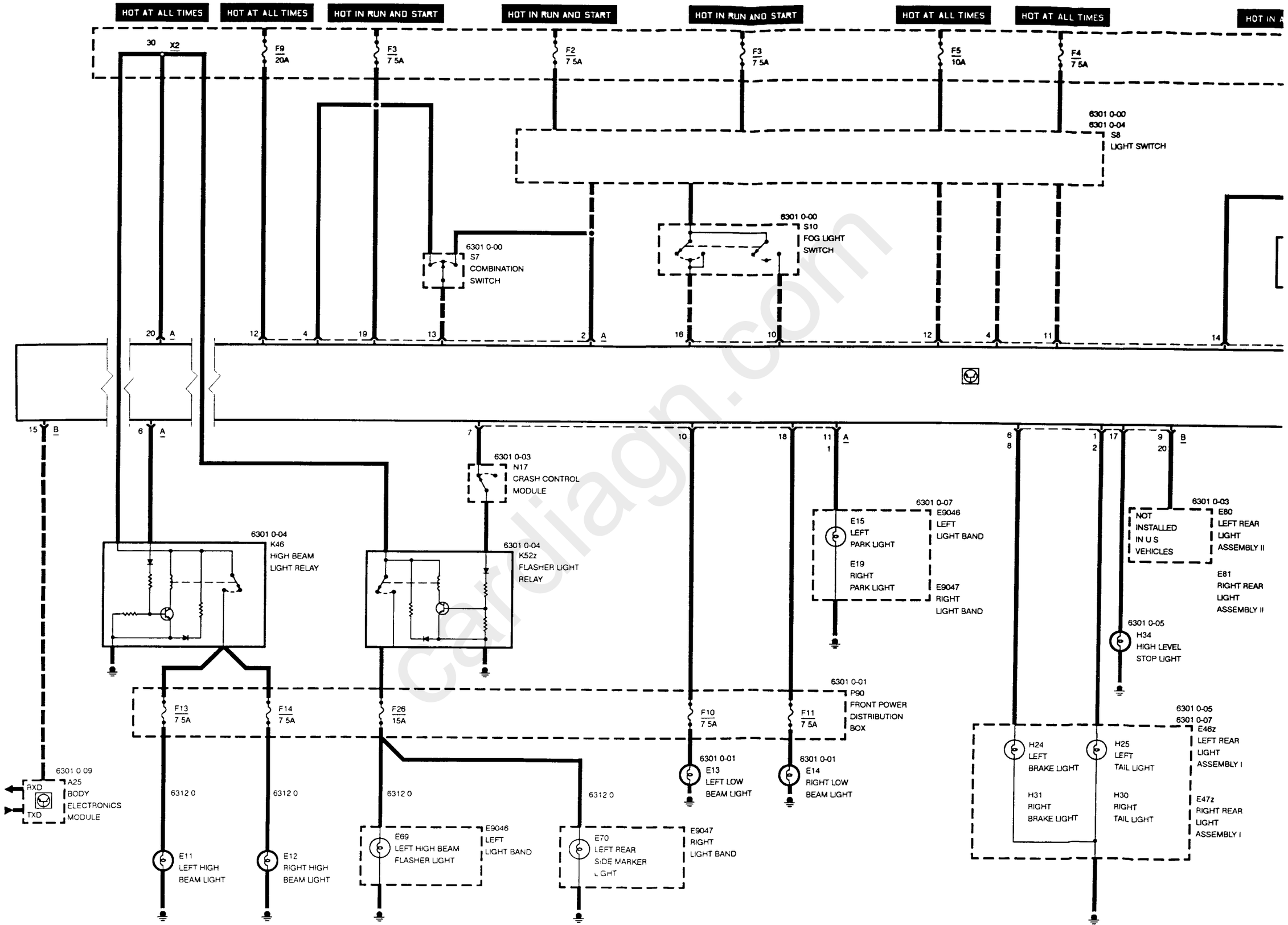
6301 0-08
P90
F7
30A
F20
30A
FRONT POWER
DISTRIBUTION
BOX

6301 0-08
M19
RH CONCEALING
HEADLIGHT
MOTOR

6301 0-08
M18
LH CONCEALING
HEADLIGHT
MOTOR

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LAMP MONITOR (LKM)

Pin Assignments

A=X12 20 pins, white

B=X38 20 pins, black

X12

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	A	Right front parking light	Right light assembly	approx. 12 V approx. 0 V	ON OFF	
2	E	Light switch/low beam	Light switch	approx. 12 V approx. 0 V	ON OFF	In ignition switch position "2", terminal 15 "ON"
3	E	Left KSW position signal (KSW position OPEN reached)	Left concealing headlight motor	approx. 12 V approx. 0 V	OFF ON	
4	E	Fuse for all fog lights/ power circuit for rear fog light, control circuit for fog lights, low beam, high beam/headlight flasher	Fuse	approx. 12 V	Stored as defect code and can be displayed	In ignition switch position "2", terminal 15 "ON"
5	A	Right fog light	Right concealing headlight	approx. 12 V ca. 0 V	ON OFF	
6	A	High beam relay (double relay high beam/ headlight flasher)	High beam light relay	approx. 3,5–5 V approx. 0 V	ON OFF	
7	A	Headlight flasher relay (double relay high beam/ headlight flasher)	Crash control unit	approx. 3,5–5 V approx. 0 V	ON OFF	

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LAMP MONITOR (LKM)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
8	A	Right concealing headlight motor signal	Concealing headlight relay	approx. 7–12 V approx. 0 V		KSW motor running KSW motor stopped
9	A	Left concealing headlight motor signal	Concealing headlight relay	approx. 7–12 V approx. 0 V		KSW motor running KSW motor stopped
10	A	Left low beam	Left concealing headlight	approx. 12 V approx. 0 V	ON OFF	
11	A	Left front parking light	Left light assembly	approx. 12 V approx. 0 V	ON OFF	
12	E	Fuse for both fog lights/power circuit for fog lights	Fuse	approx. 12 V	Stored as defect code and can be displayed	
13	E	High beam–headlight flasher switch/high beam	High beam–headlight flasher switch	approx. 12 V approx. 0 V	ON OFF	
14	E	Right KSW position signal (KSW position OPEN reached)	Right concealing headlight motor	approx. 12 V approx. 0 V	OFF OFF	
15	A	Left fog light	Left concealing headlight	approx. 12 V approx. 0 V	ON OFF	
16	E	Right KSW position signal (KSW position CLOSED reached)	Right concealing headlight motor	approx. 12 V approx. 0 V	OFF ON	
17	E	Left KSW position signal (KSW position CLOSED reached)	Left concealing headlight motor	approx. 12 V approx. 0 V	OFF ON	
18	A	Right low beam	Right concealing headlight	approx. 12 V approx. 0 V	ON OFF	
19	E	LKM voltage supply Terminal 15/control circuit	Fuse	approx. 12 V	None	
20	E	LKM voltage supply Terminal 30/power circuit	Power distribution box	approx. 12 V	None	Power supply for low beam

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LAMP MONITOR (LKM)

X38

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	A	Left tail light	Outside left tail light	approx. 12 V approx. 0 V	ON OFF	
2	A	Right tail light	Outside right tail light	approx. 12 V approx. 0 V	ON OFF	
3	M	Ground terminal 31	Body ground	approx. 0 V	None	
4	E	License plate light signal	Light switch	approx. 12 V approx. 0 V	ON OFF	
5	A	Right license plate light	Right license plate light	approx. 12 V approx. 0 V	ON OFF	
6	A	Left brake light	Outside left brake light	approx. 12 V approx. 0 V	ON OFF	
7	E	Brake light signal	Brake light switch	approx. 12 V approx. 0 V	Defect code is stored	
8	A	Right brake light	Outside right brake light	approx. 12 V approx. 0 V	ON OFF	
9	A	Left rear fog light	Tail light left of rear lid	approx. 12 V approx. 0 V	ON OFF	Note country variant
10	E	Rear fog light voltage	Fog light switch	approx. 12 V approx. 0 V	None	Note country variant
11	E	Left parking light voltage	Light switch/Left park lamp relay	approx. 12 V approx. 0 V	None	Note country variant
12	E	Right parking light voltage	Light switch/Right park lamp relay	approx. 12 V approx. 0 V	None	Note country variant

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LAMP MONITOR (LKM)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
13	A	Left license plate light	Left license plate light	approx. 12 V approx. 0 V	ON OFF	
14	E	Brake lights voltage	Fuse	approx. 12 V	Defect code is stored	
15	E/A	E/A I–bus/data link	All control units with I–bus	Square–wave signal	None	When I–bus active/see EKM diagnostic program
16	E	Fog light voltage	Fog light relay/fog light switch	approx. 12 V approx. 0 V	ON OFF	Note country variant
17	A	High level stop light	High level stop light	approx. 12 V approx. 0 V	ON OFF	Note country variant
18		Not used				
19	E	Brake pedal status	Brake light switch	approx. 0 V approx. 12 V	ON OFF	
20	A	Right fog light	Tail light right of rear lid	approx. 12 V approx. 0 V	ON OFF	Note country variant

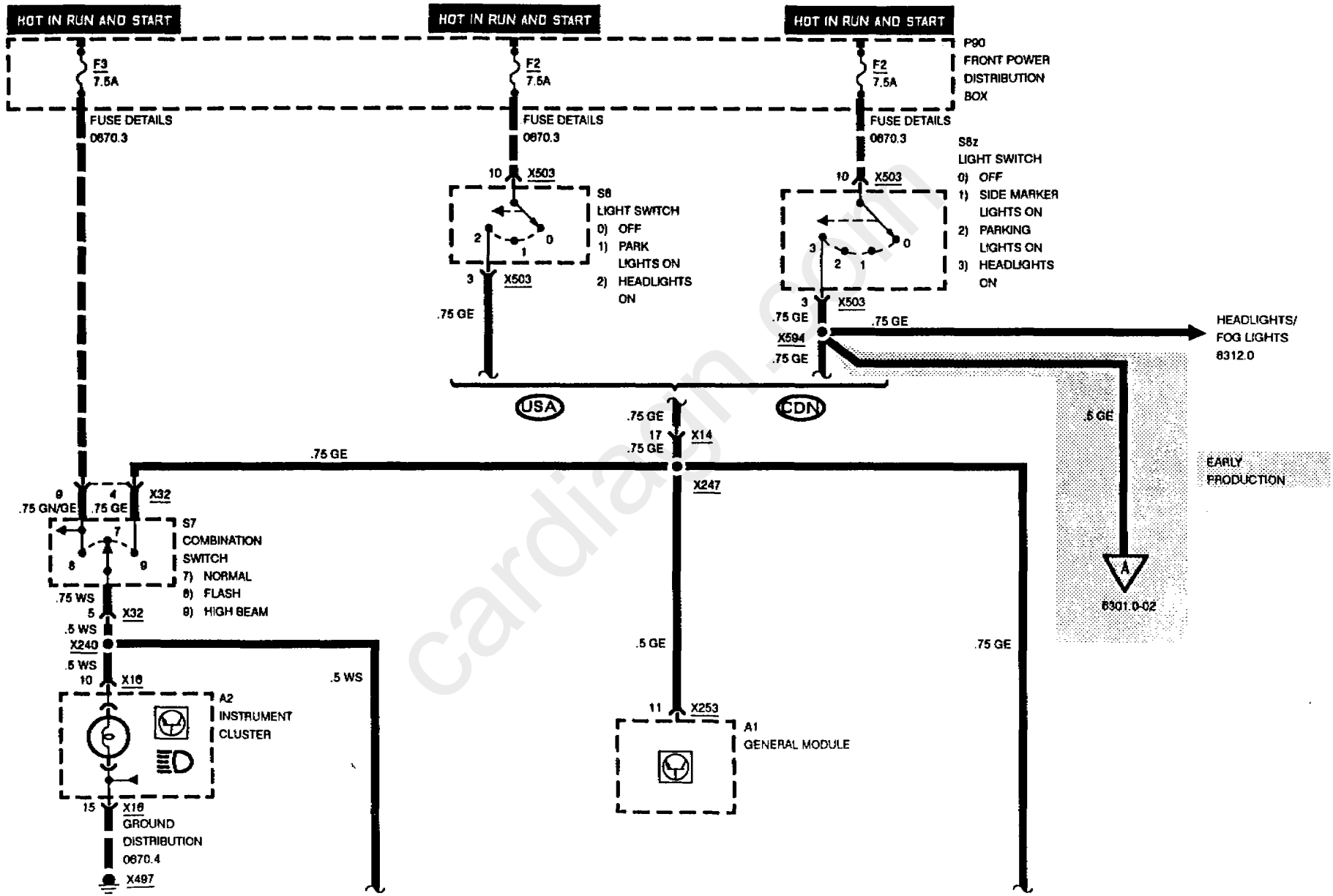
E = Input, A = Output, M = Ground

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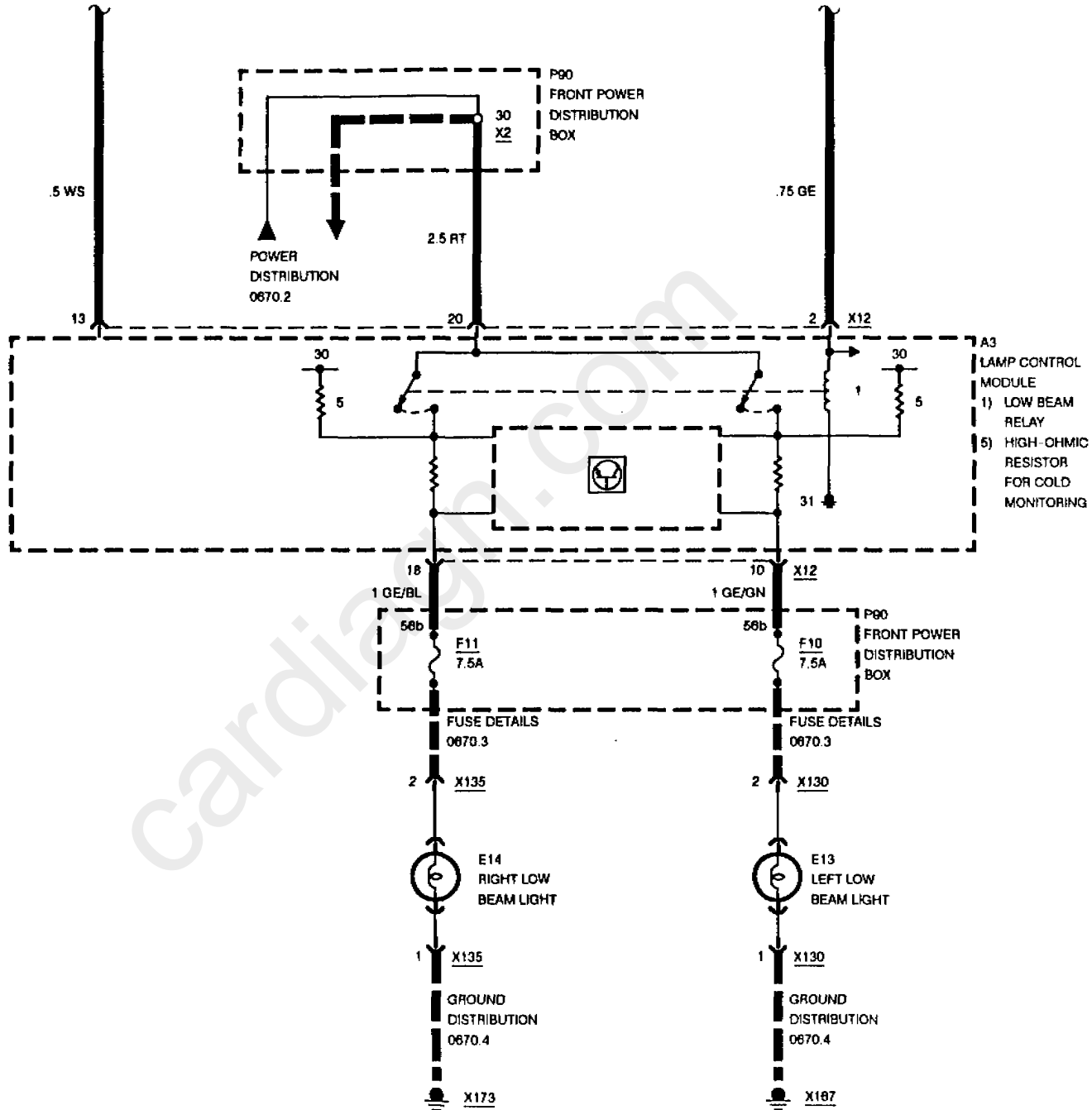
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LAMP MONITOR (LKM)

HEADLIGHTS



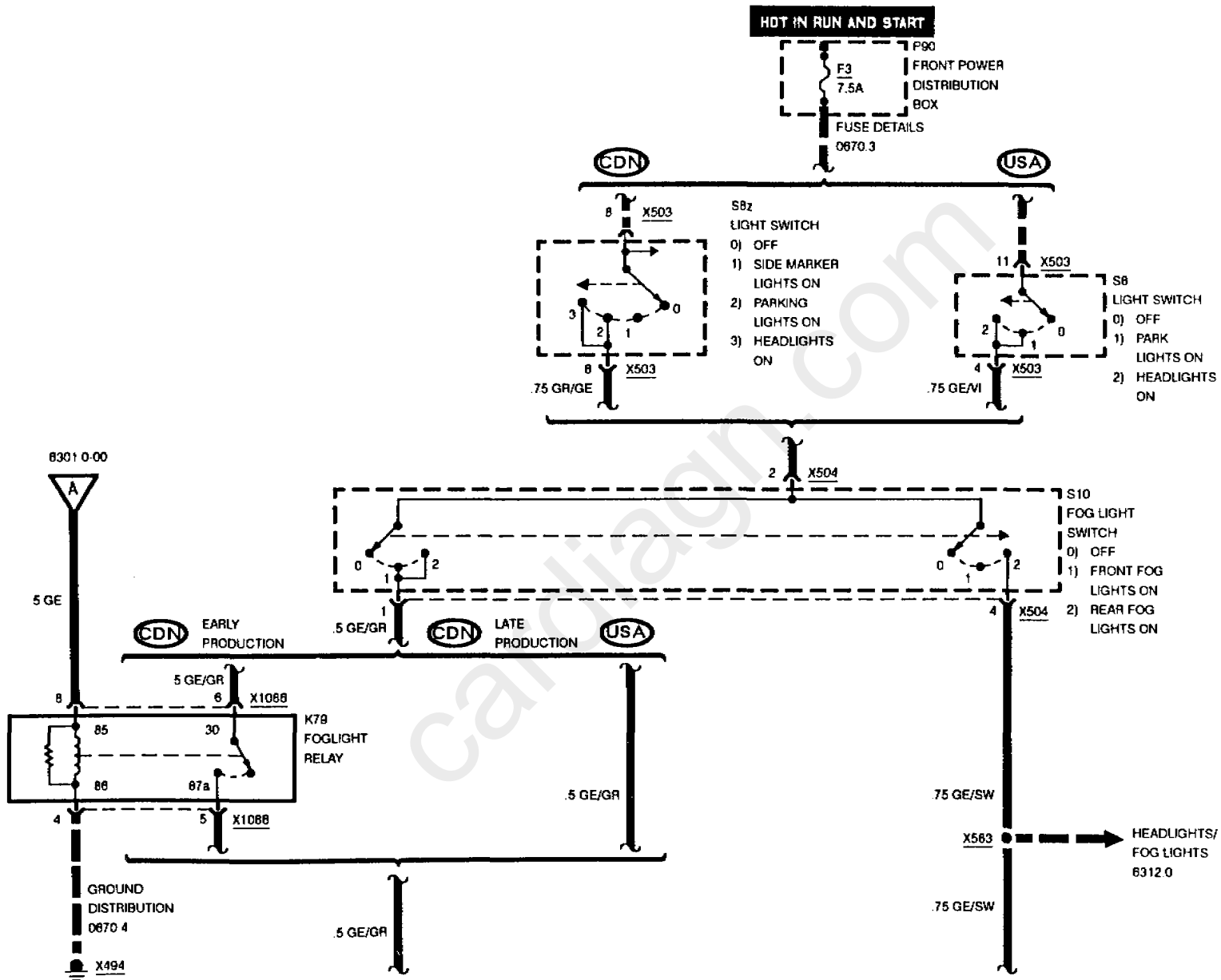
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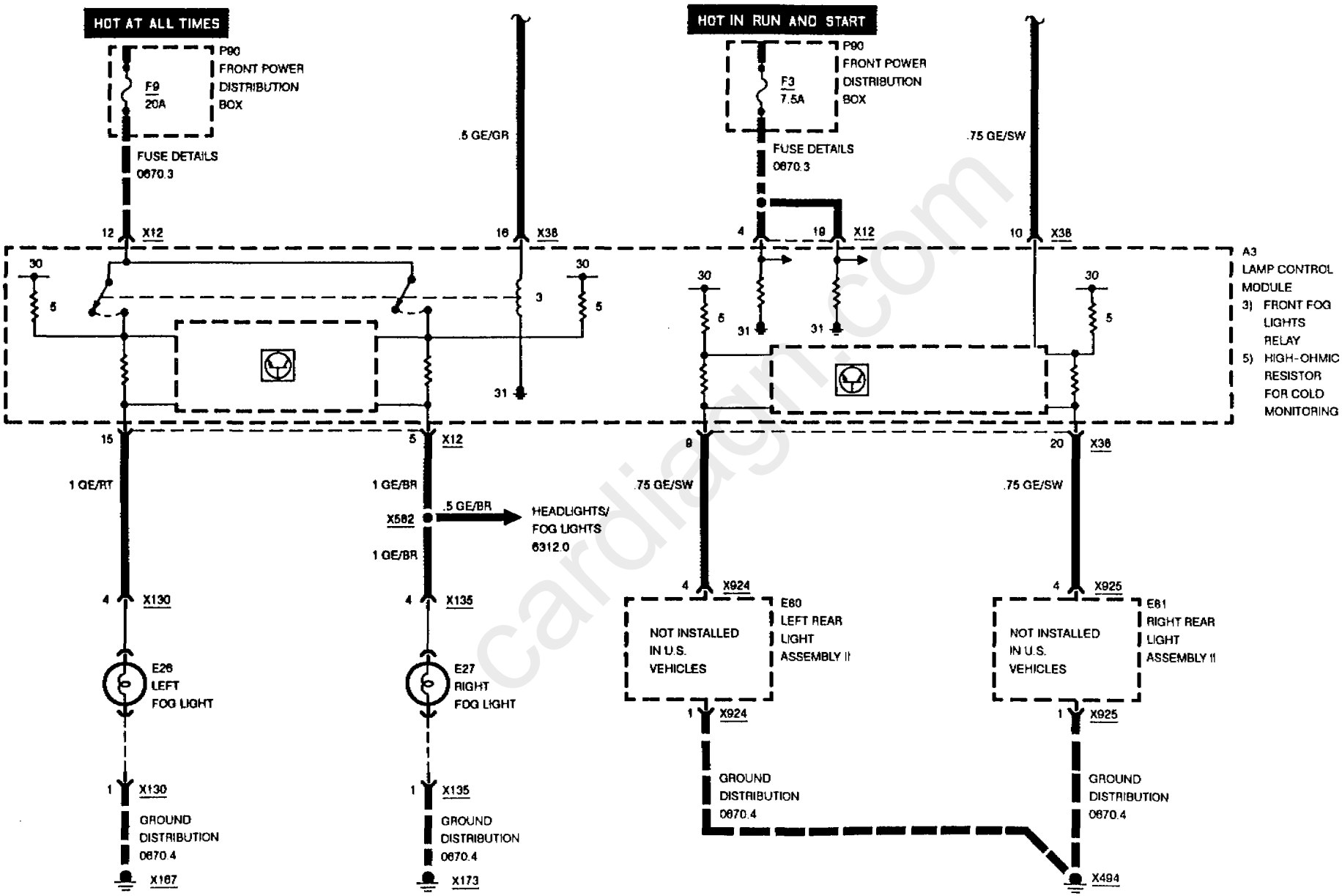
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LAMP MONITOR (LKM)

FRONT FOG LIGHTS

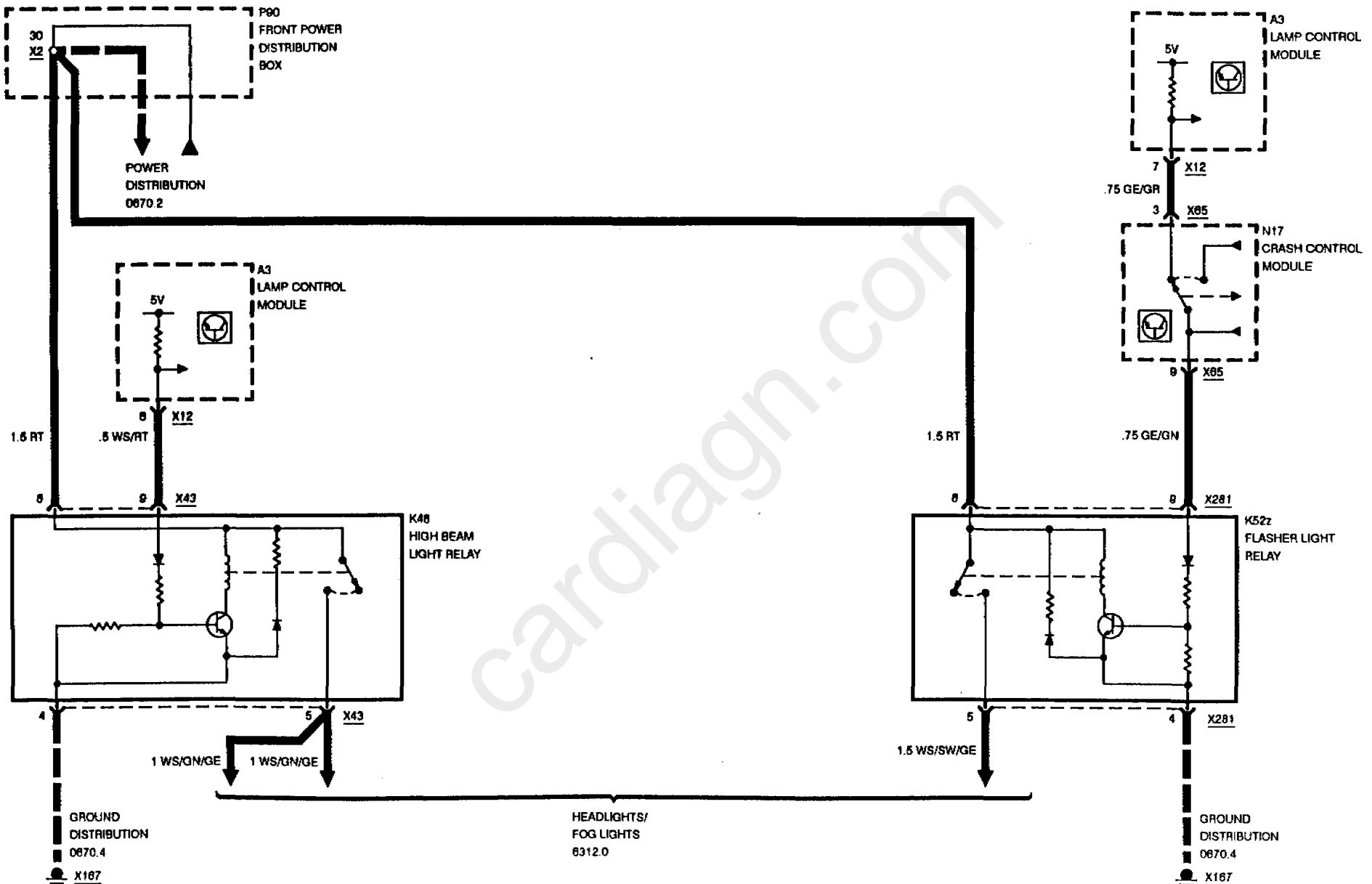


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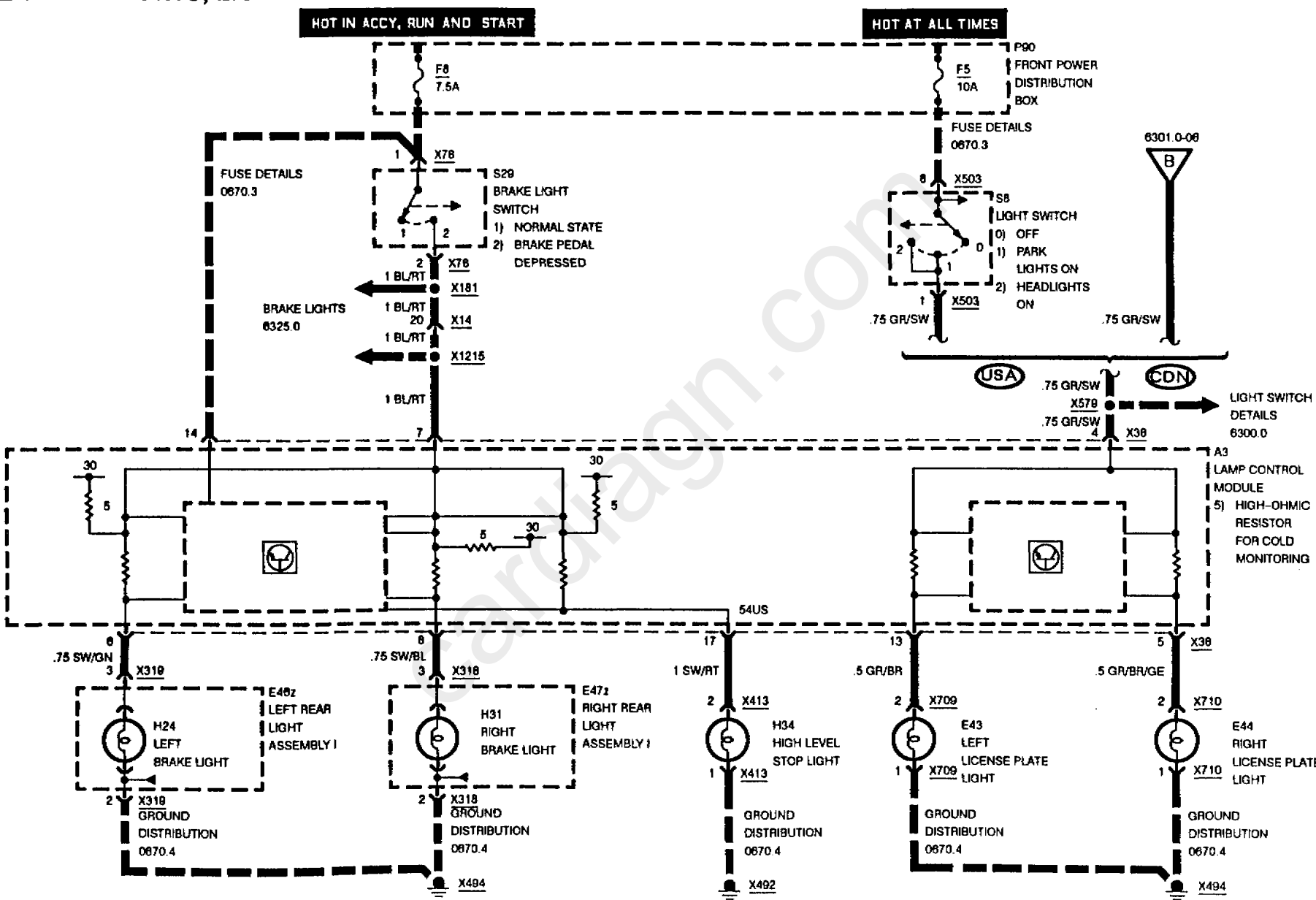
LAMP MONITOR (LKM)



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LAMP MONITOR (LKM)

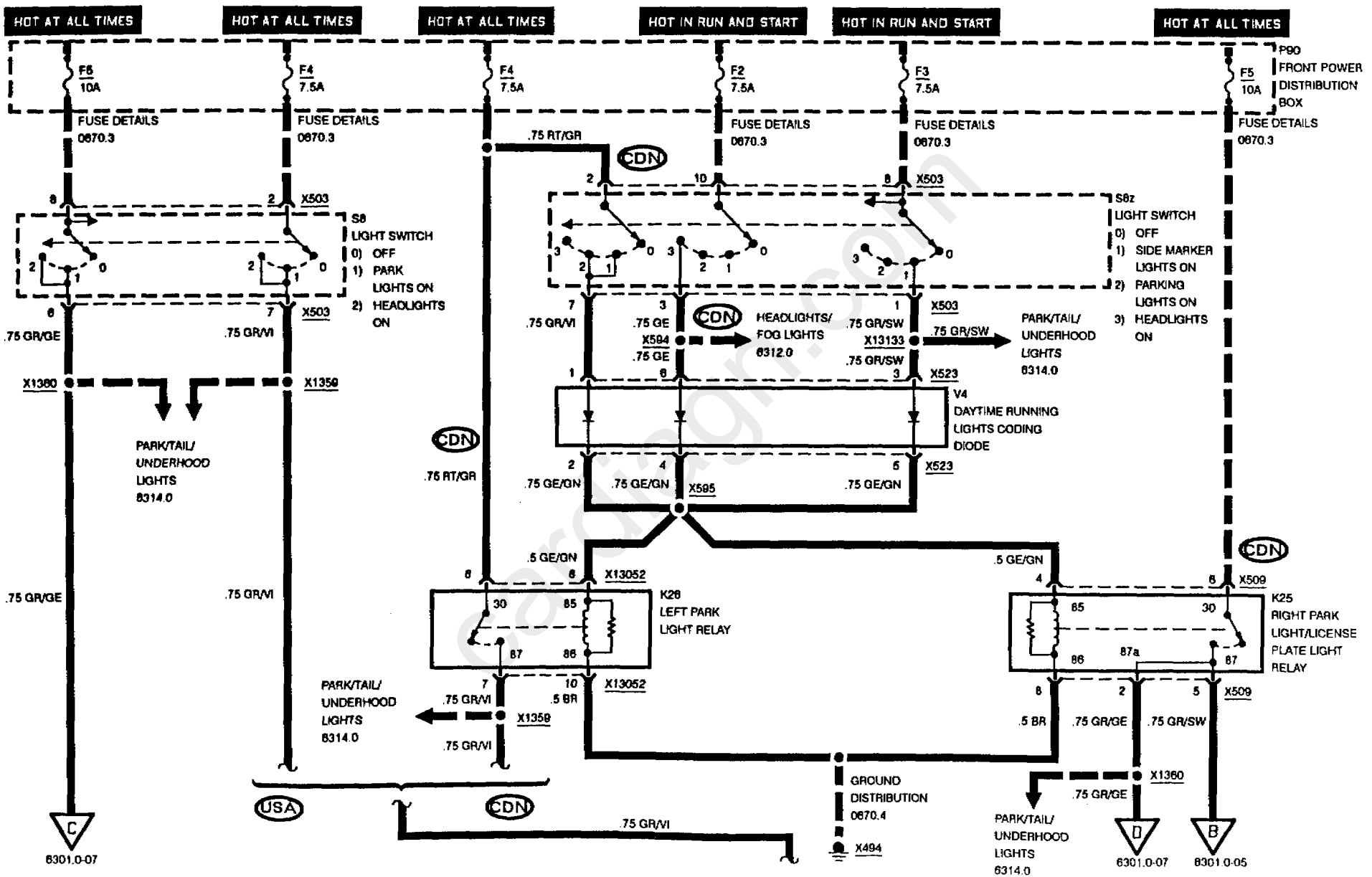
BRAKE LIGHTS, LICENSE PLATE LIGHTS



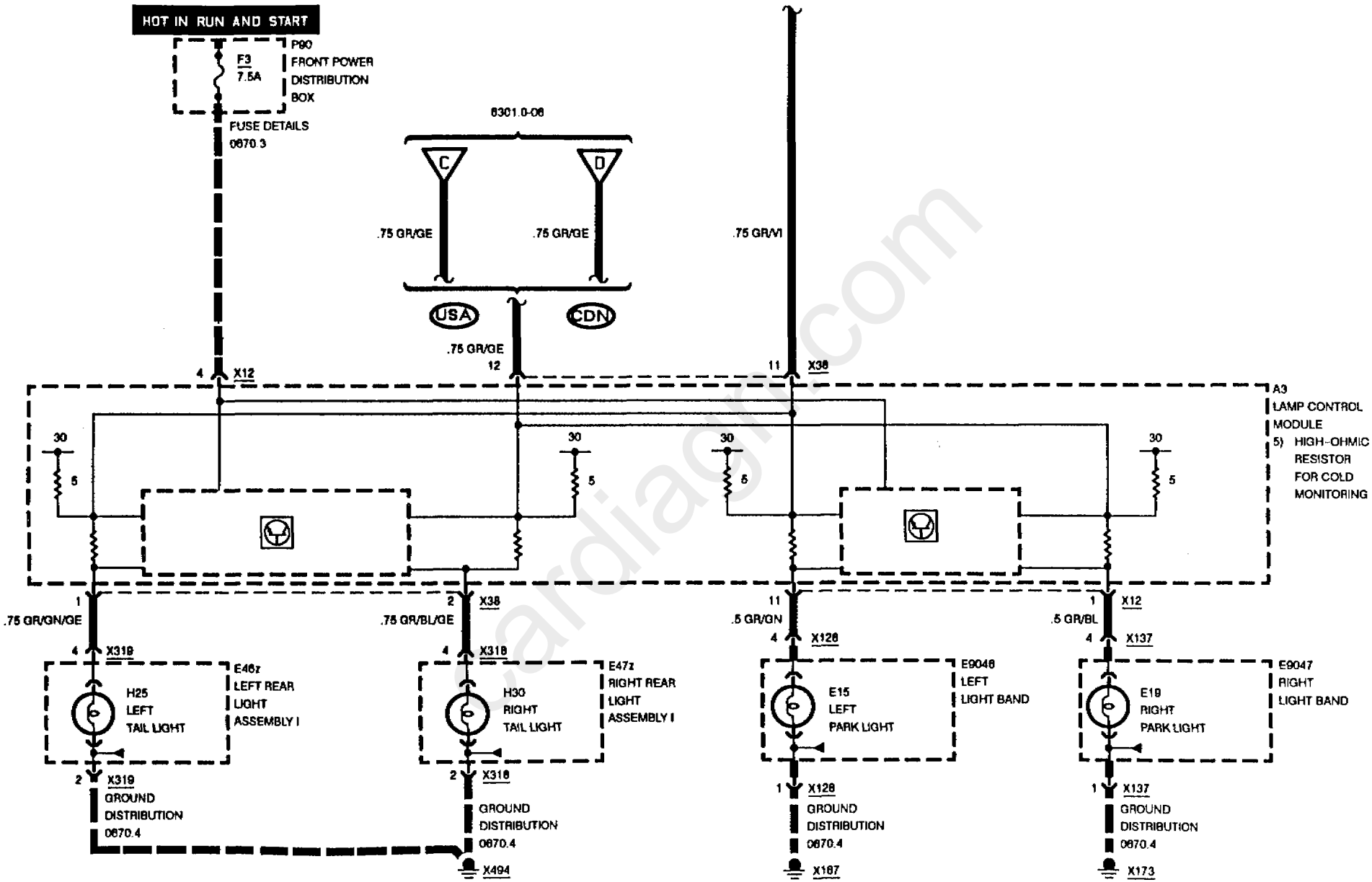
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LAMP MONITOR (LKM)

PARKING LIGHTS



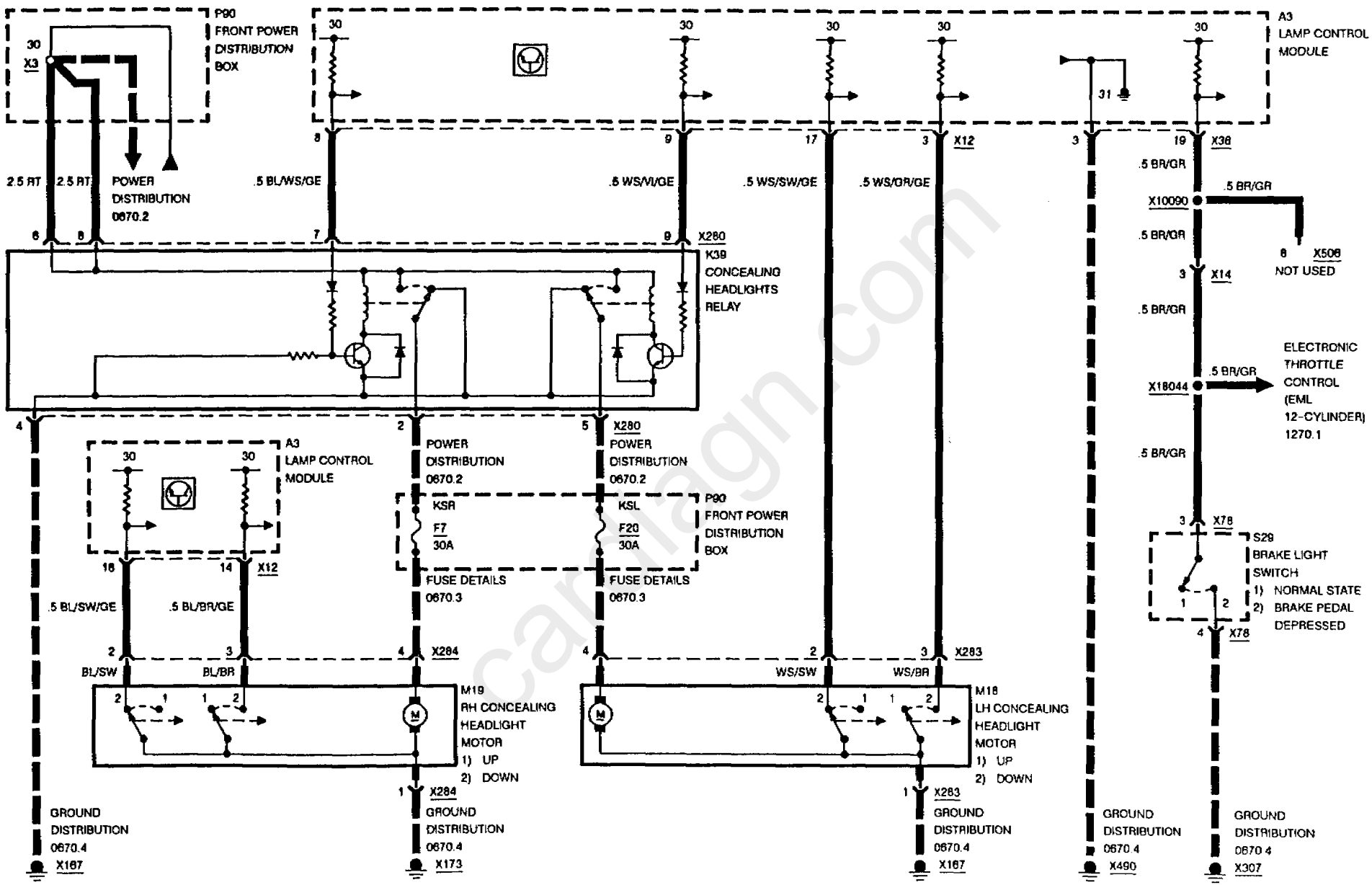
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LAMP MONITOR (LKM)

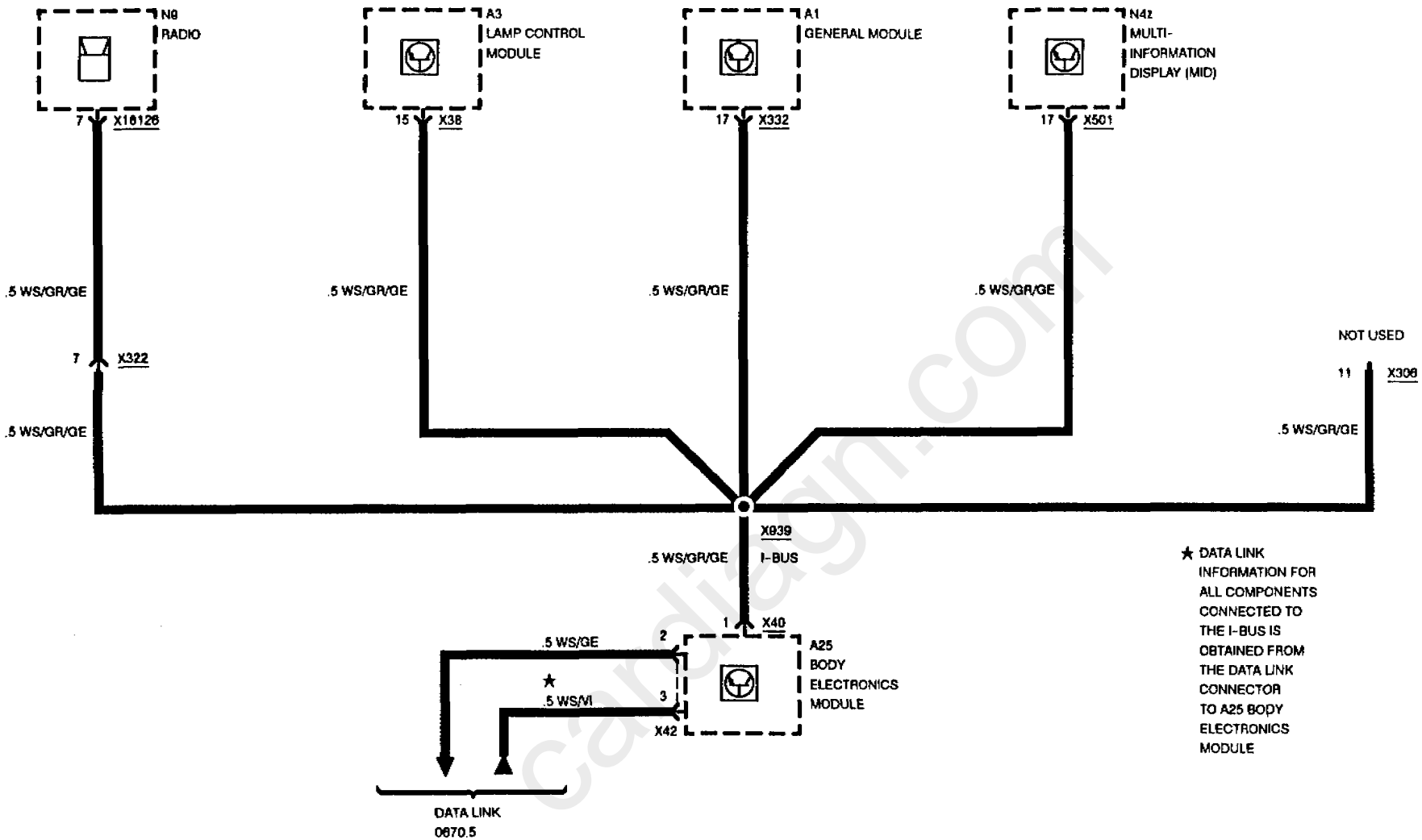
CONCEALING HEADLIGHTS



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LAMP MONITOR (LKM)

INSTRUMENTATION BUS (I-BUS)

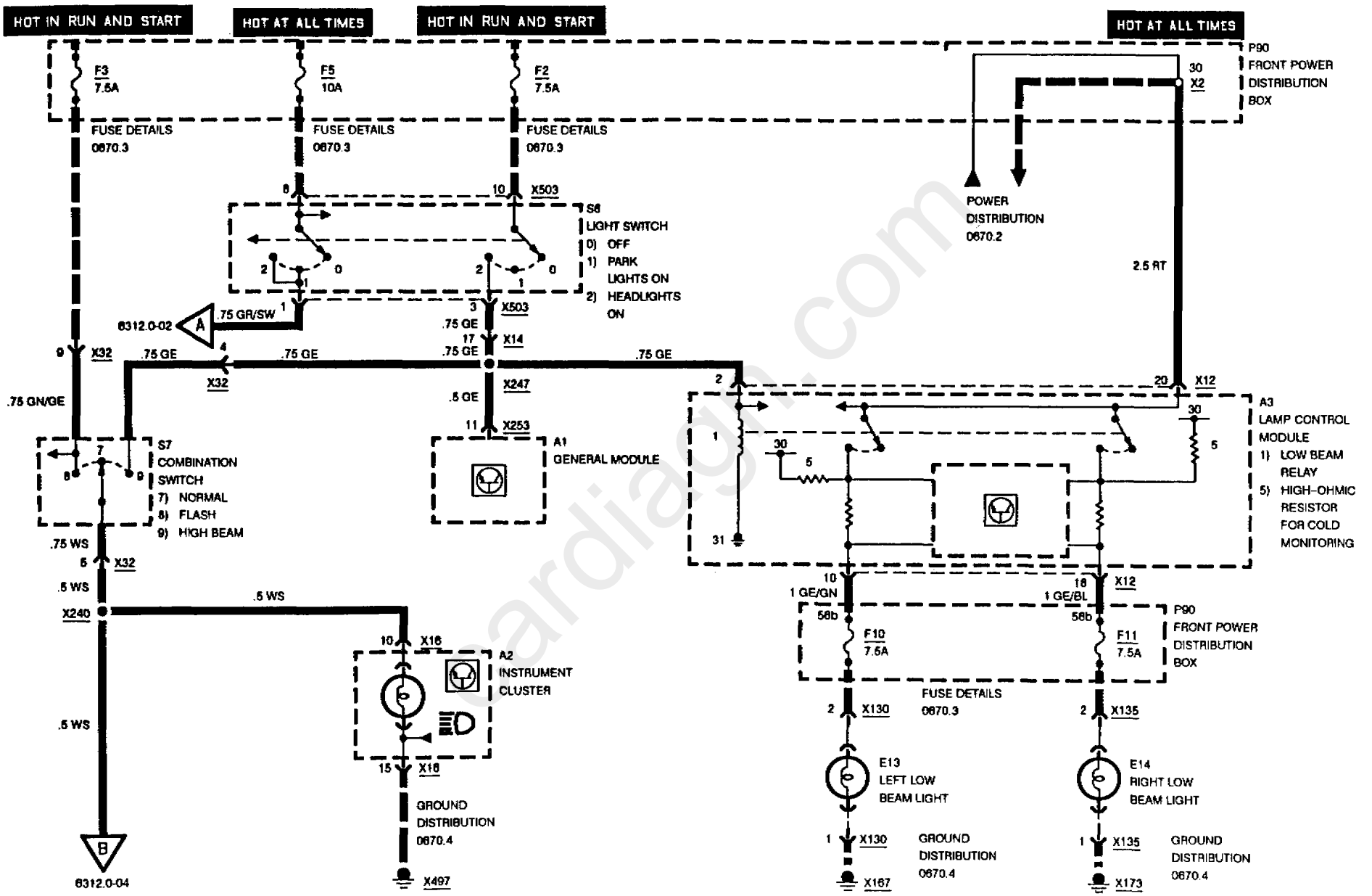


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HEADLIGHTS/ FOG LIGHTS

USA

HEADLIGHTS

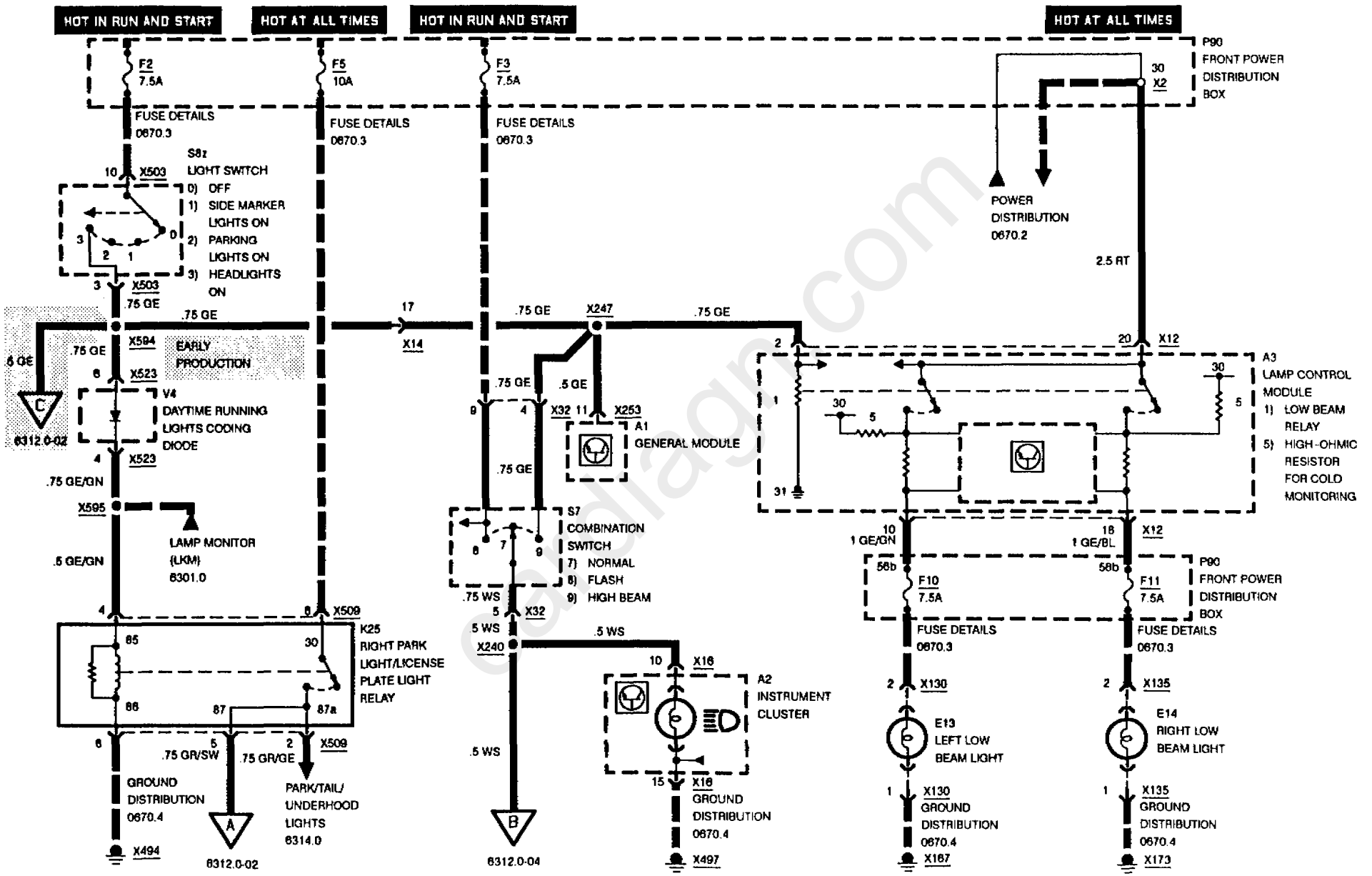


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HEADLIGHTS/ FOG LIGHTS

CDN

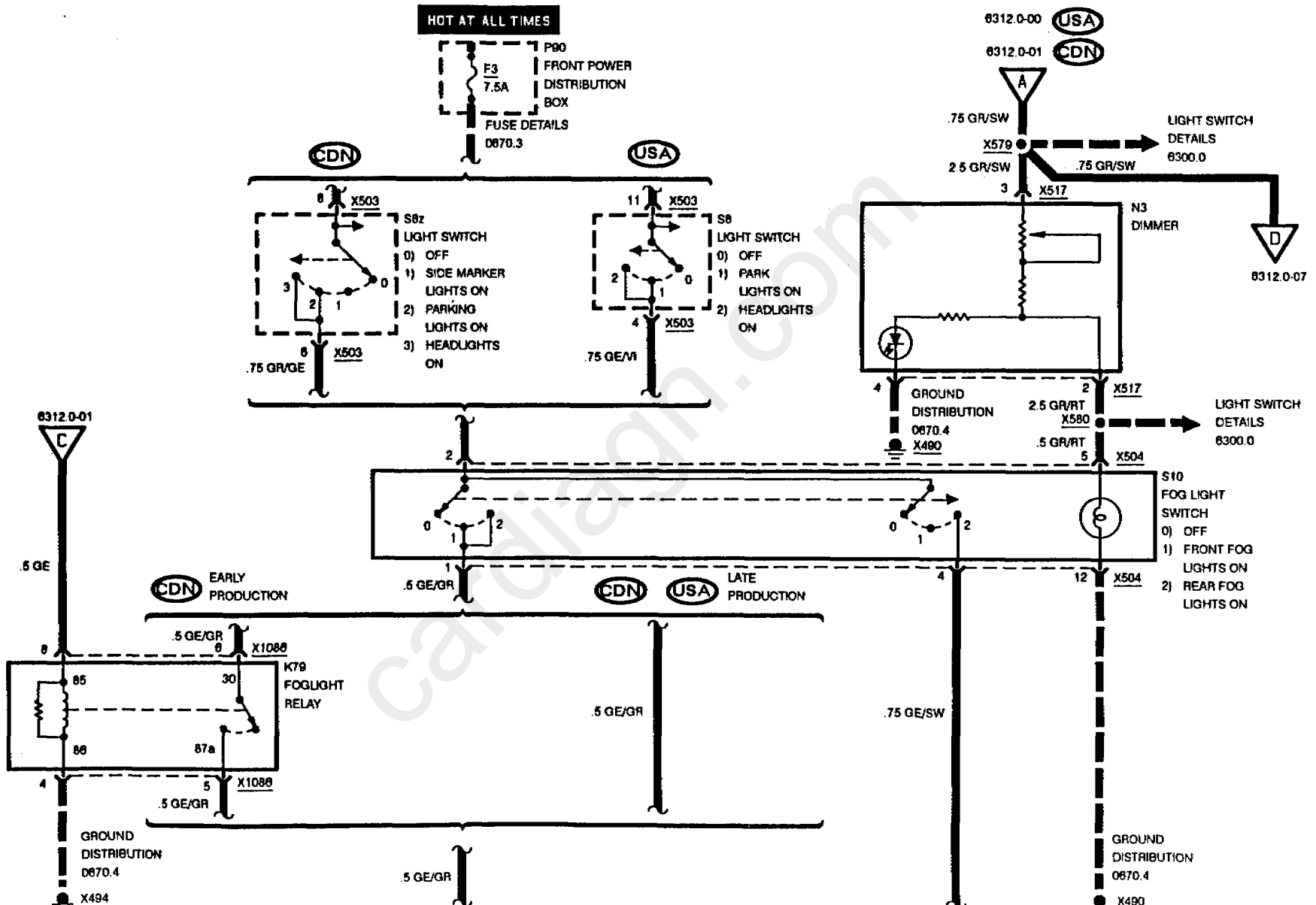
HEADLIGHTS



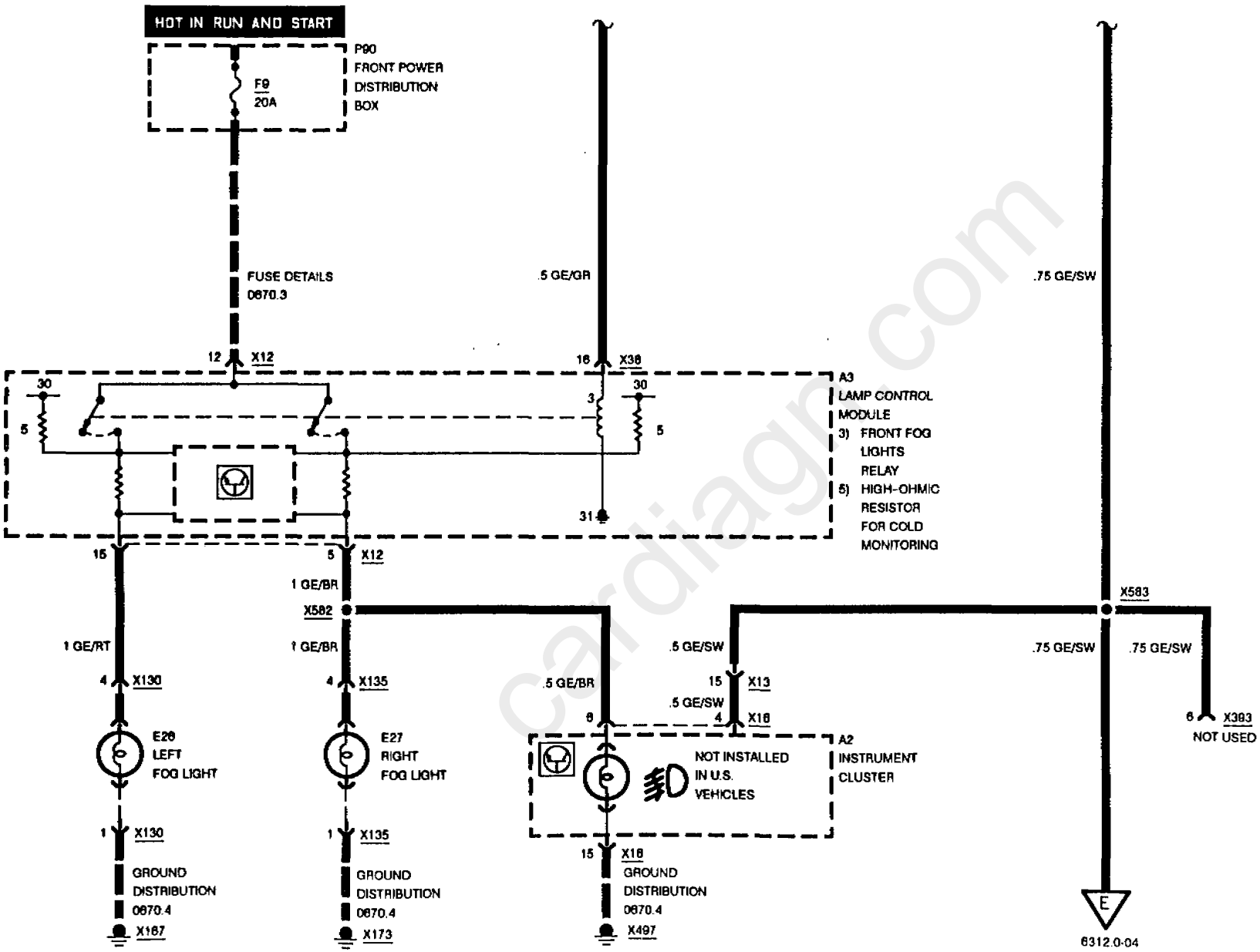
e90diagram.com

HEADLIGHTS/ FOG LIGHTS

FRONT FOG LIGHTS



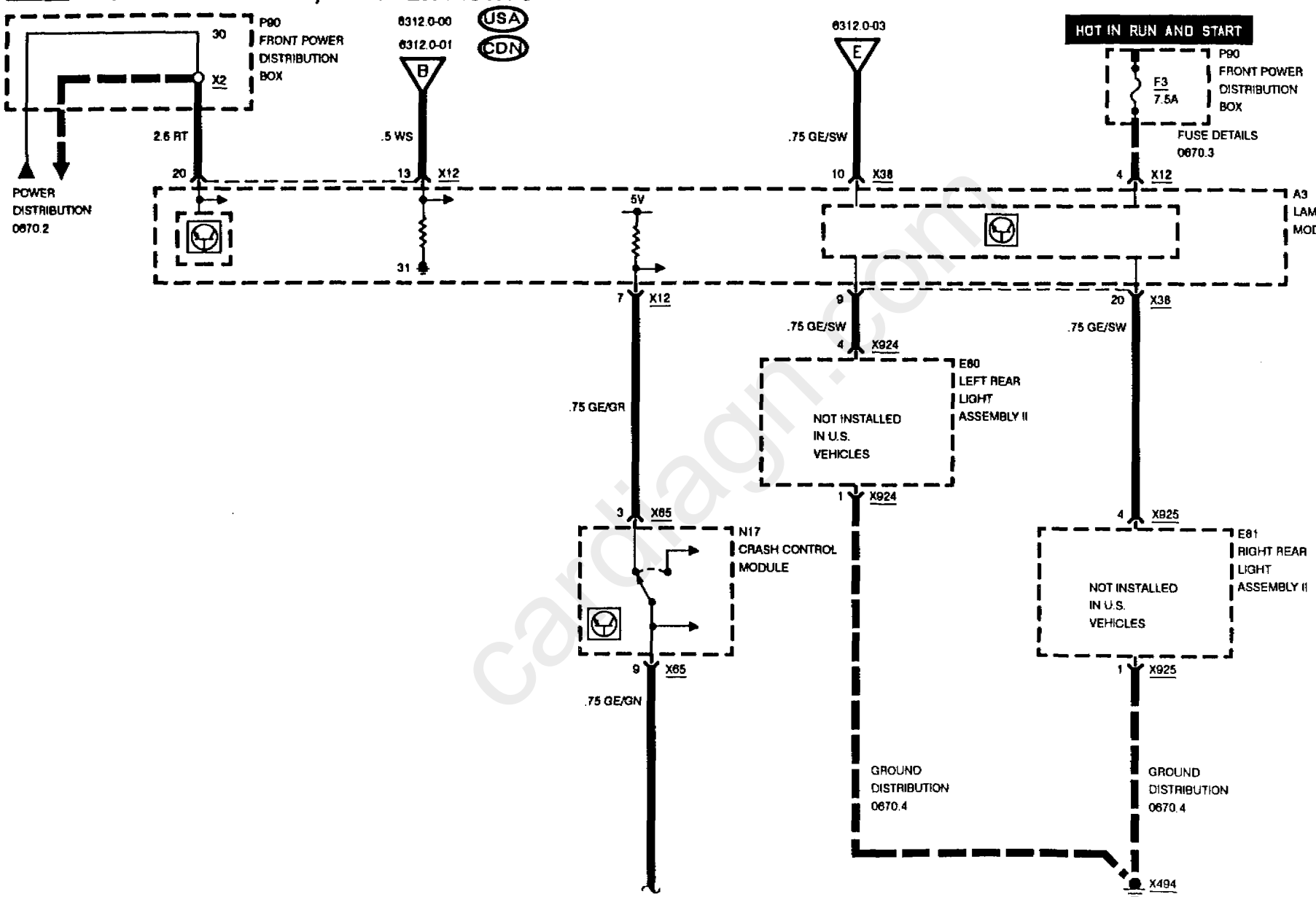
cardiagn.com



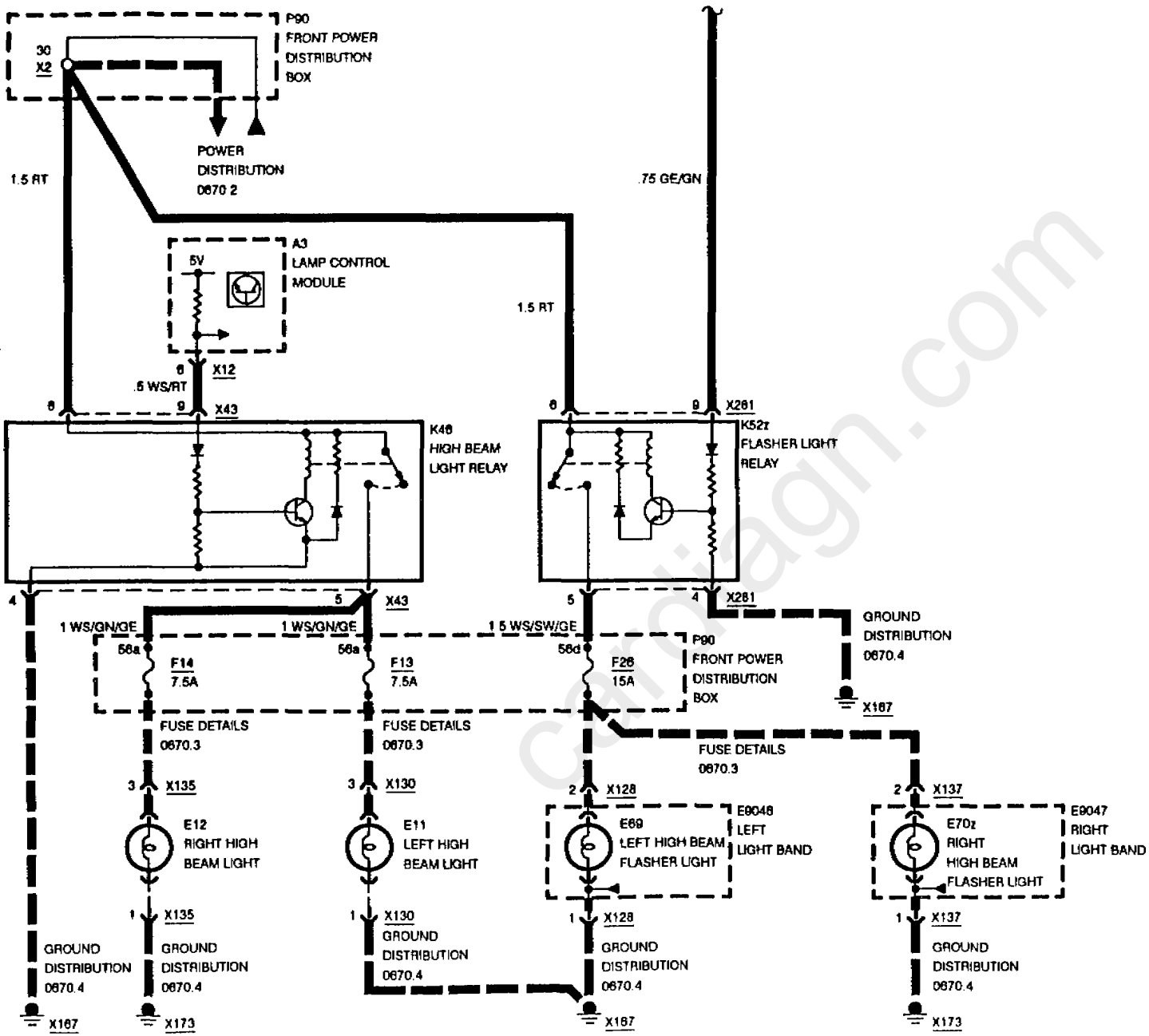
cardiagn.com

HEADLIGHTS/ FOG LIGHTS

HIGH BEAM LIGHTS, FLASHER LIGHTS



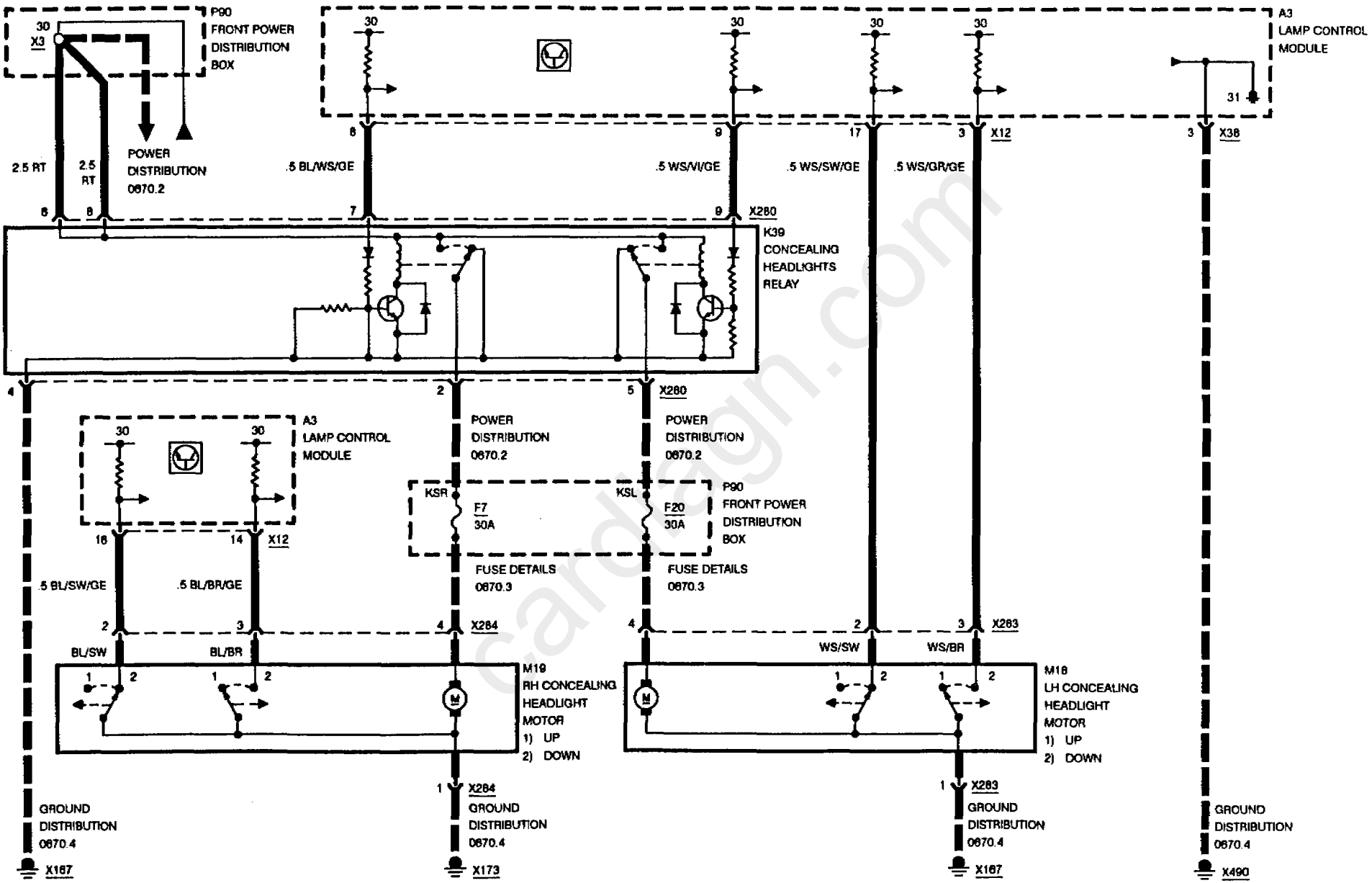
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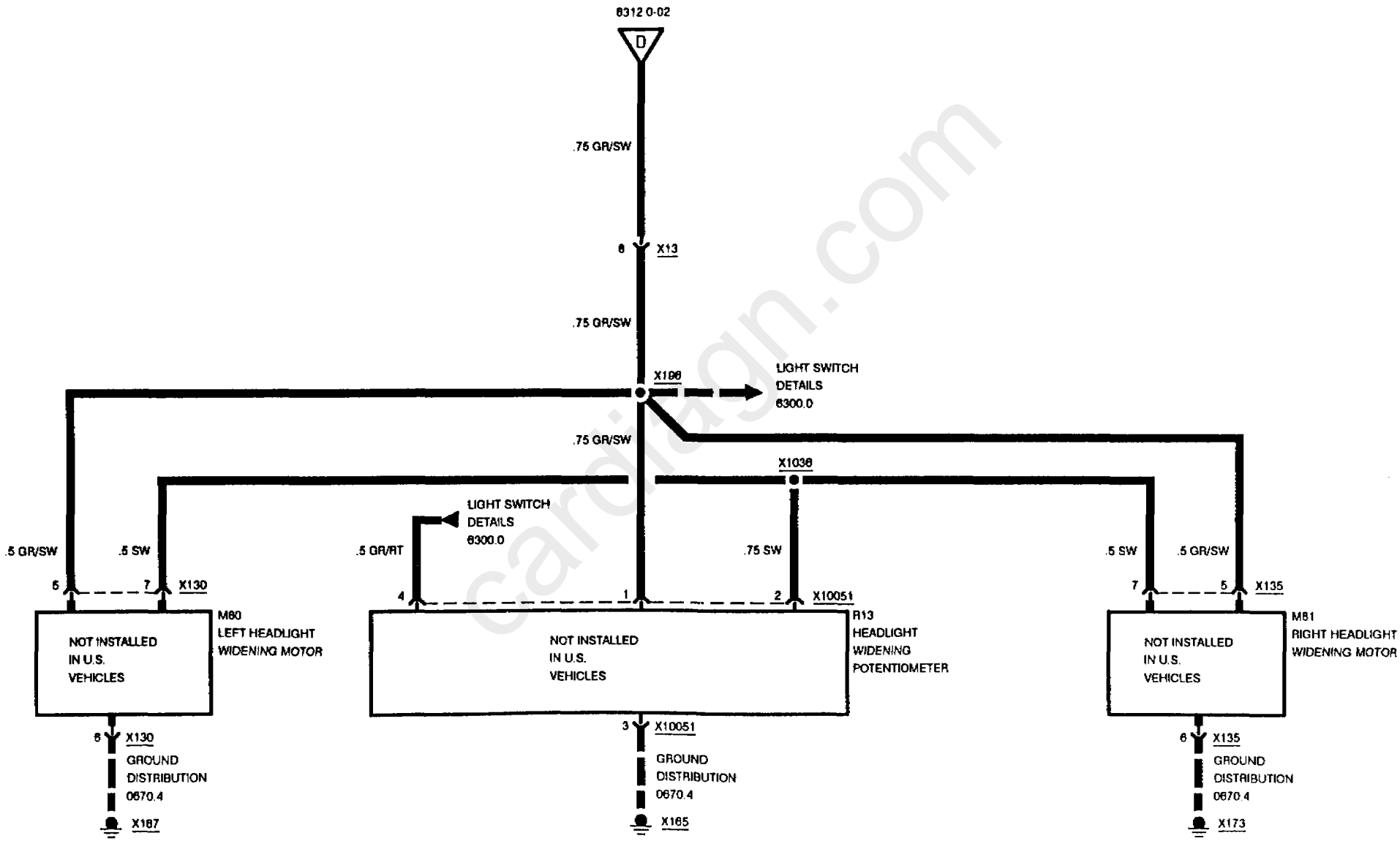
HEADLIGHTS/ FOG LIGHTS

CONCEALING HEADLIGHTS



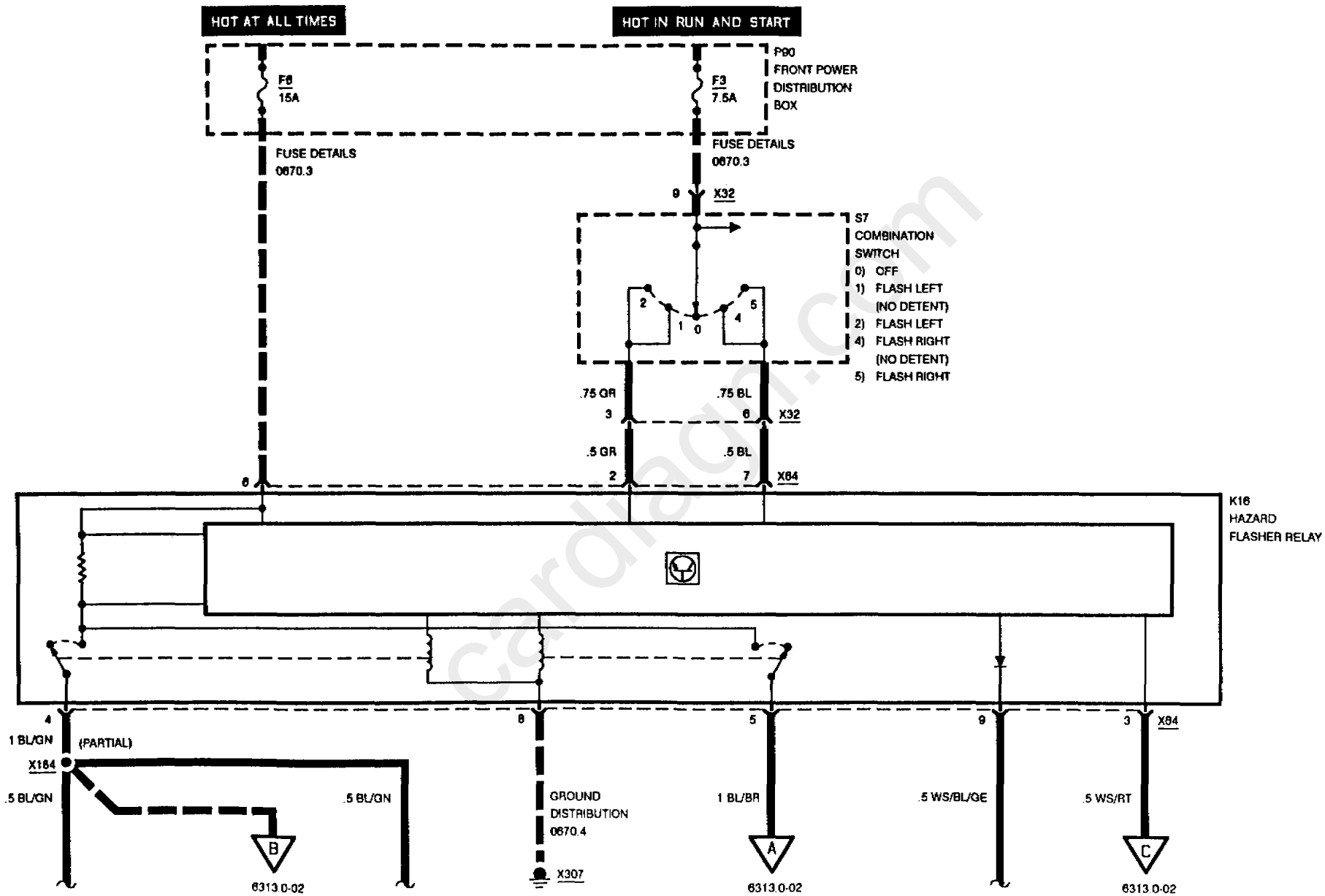
cardiagn.com

HEADLIGHT BEAM ANGLE ADJUST

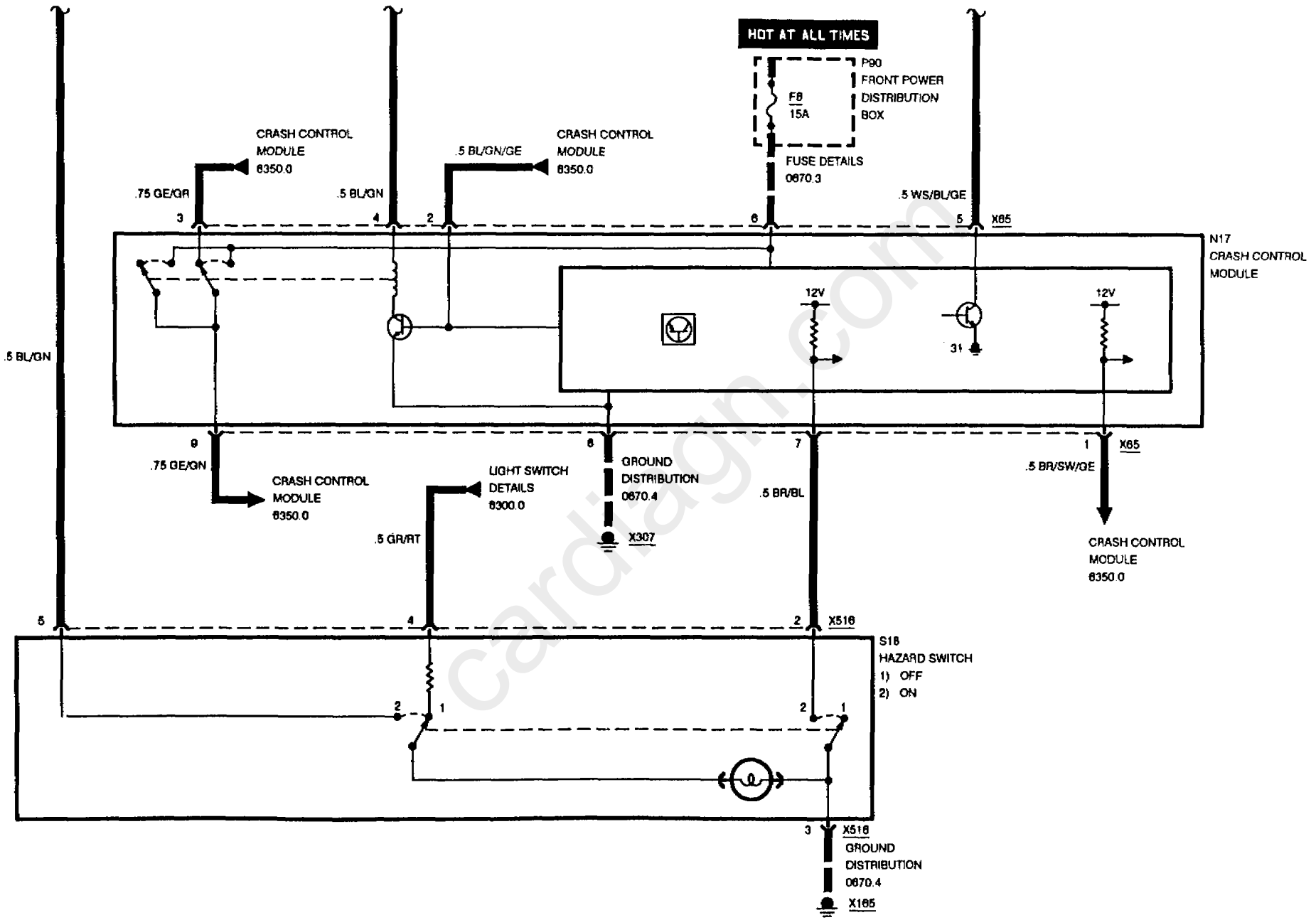


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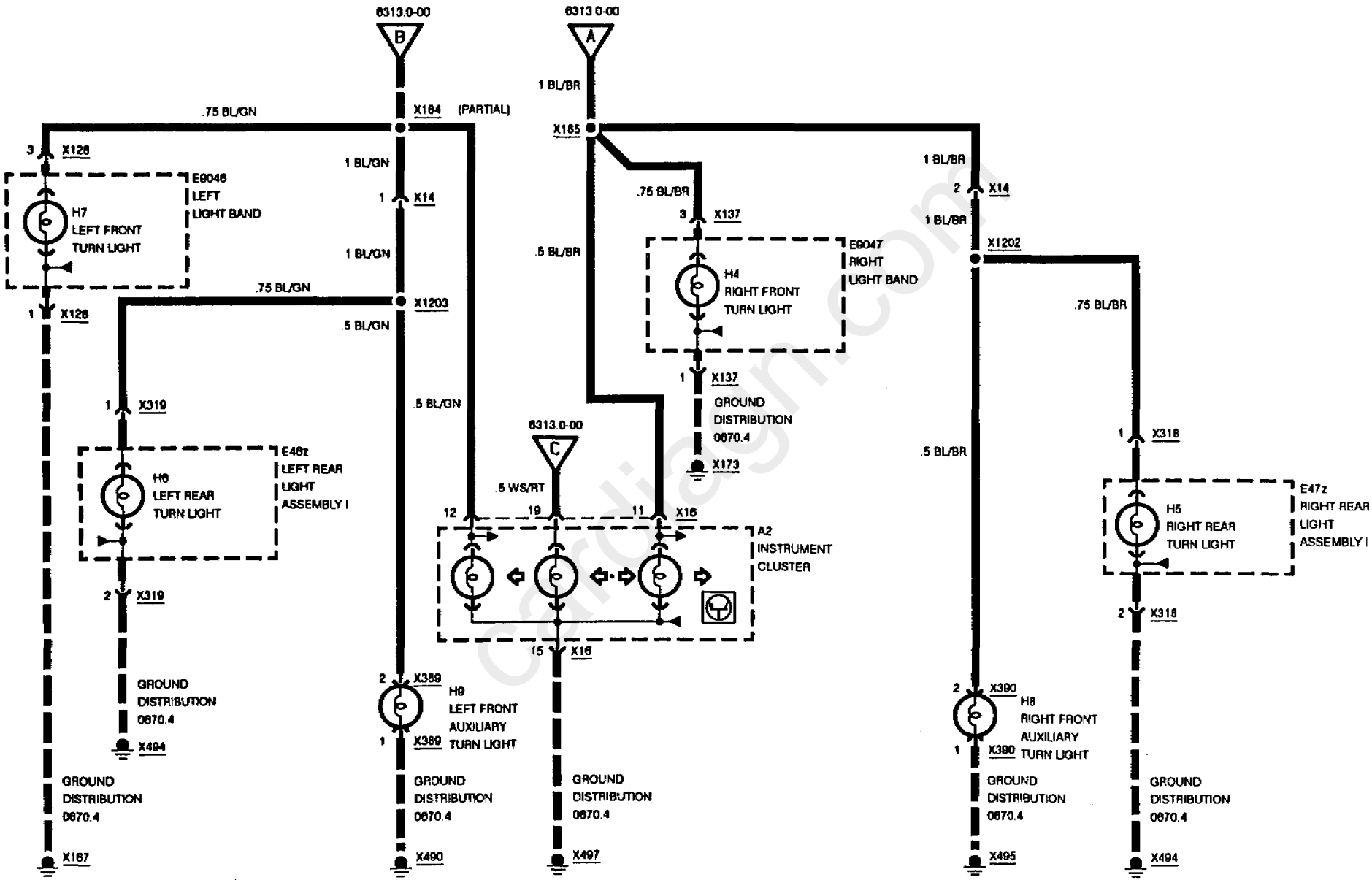
TURN/HAZARD LIGHTS



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HOT AT ALL TIMES
P90
FRONT POWER
DISTRIBUTION
BOX
F8
15A
FUSE DETAILS
0670.3
CRASH CONTROL
MODULE
6350.0
.75 GE/GR
.5 BL/GN
.5 BL/GN/GE
CRASH CONTROL
MODULE
6350.0
.5 WS/BL/GE
X65
N17
CRASH CONTROL
MODULE
12V
12V
31
.5 BL/GN
9
.75 GE/GN
CRASH CONTROL
MODULE
6350.0
LIGHT SWITCH
DETAILS
6300.0
.5 GR/RT
6
GROUND
DISTRIBUTION
0670.4
X307
7
.5 BR/BL
1
X65
.5 BR/SW/GE
CRASH CONTROL
MODULE
6350.0
5
4
2
X516
S18
HAZARD SWITCH
1) OFF
2) ON
3
X516
GROUND
DISTRIBUTION
0670.4
X165

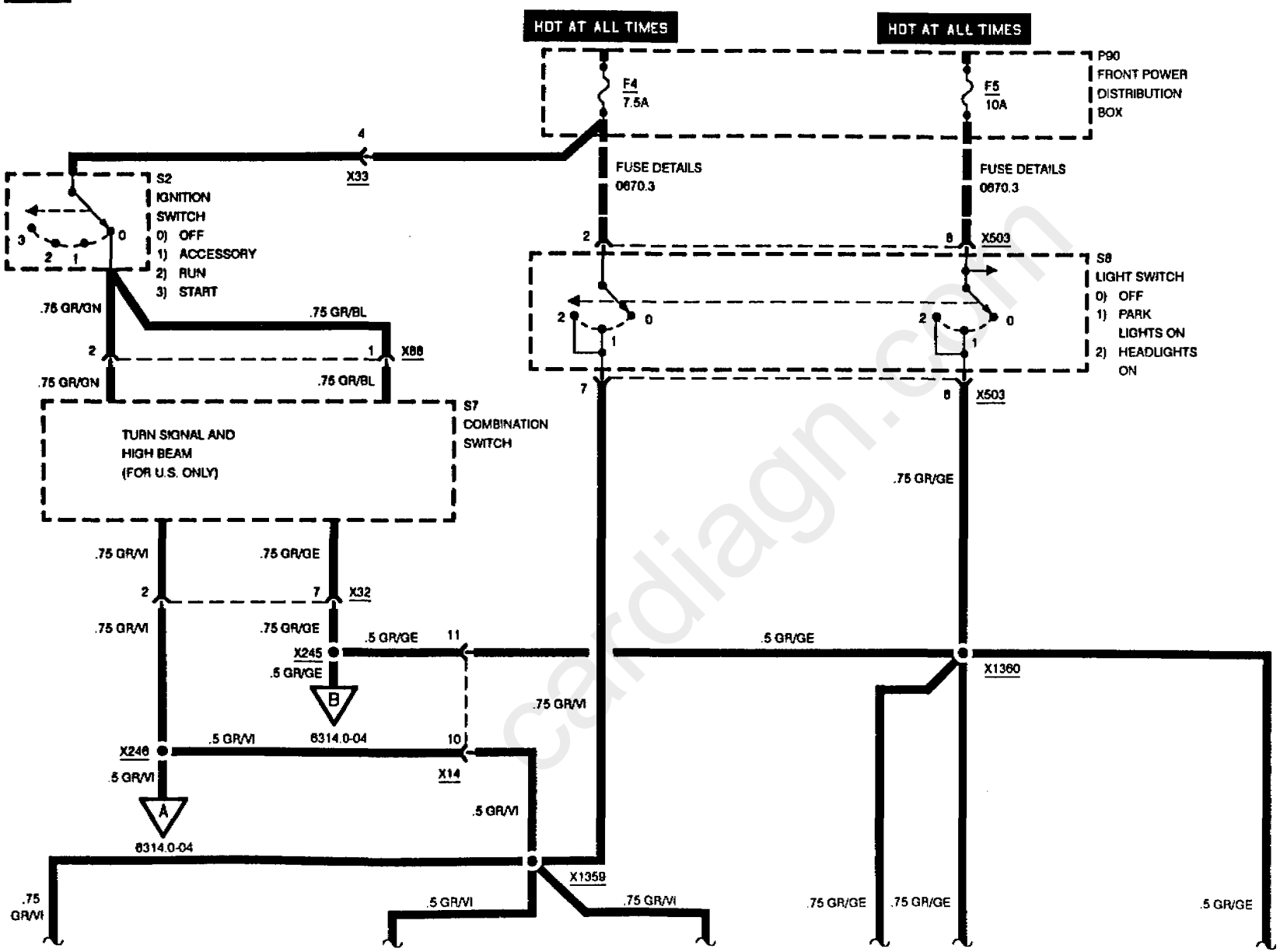
TURN/HAZARD LIGHTS



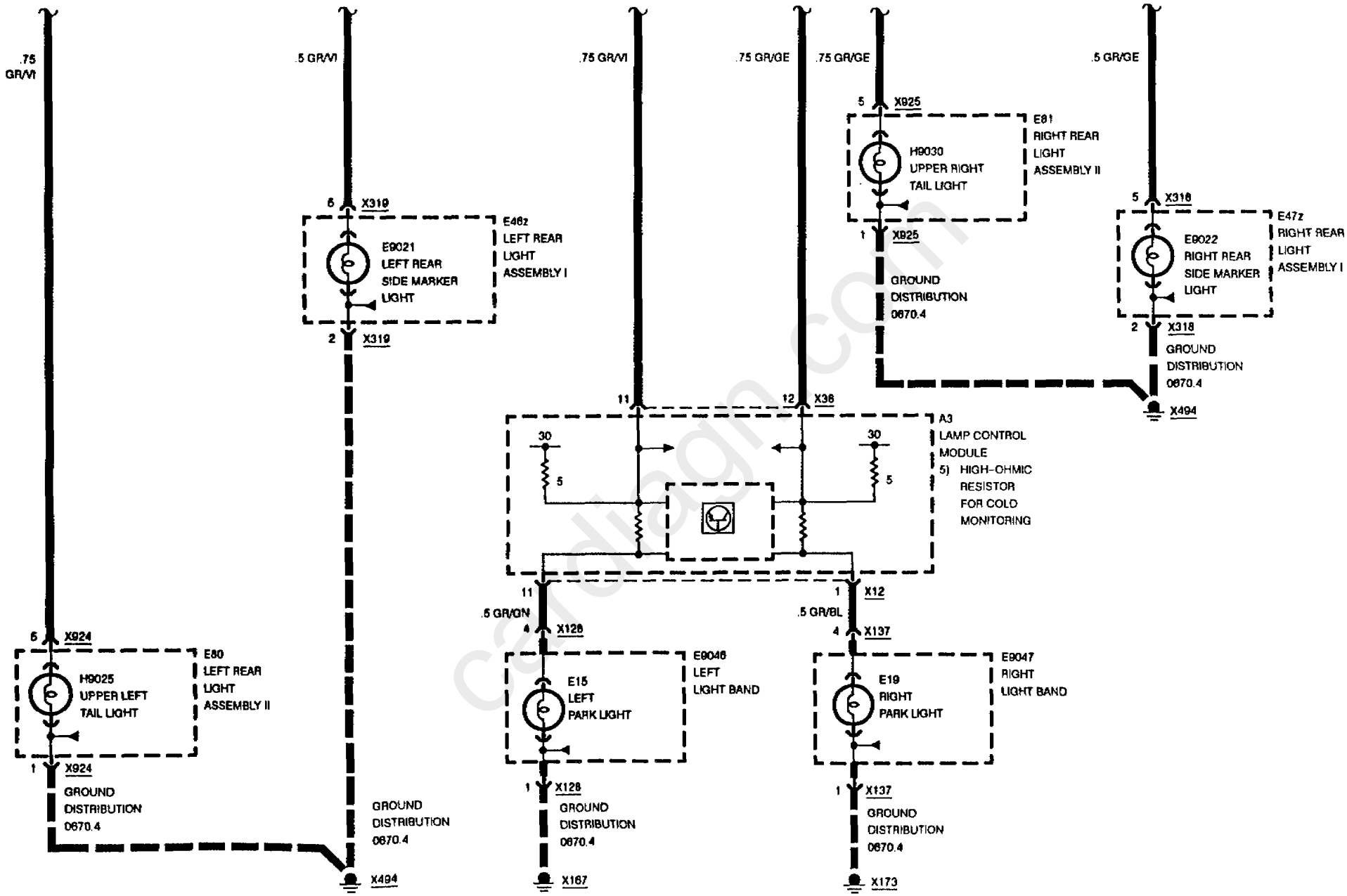
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PARK/TAIL/ UNDERHOOD LIGHTS

USA

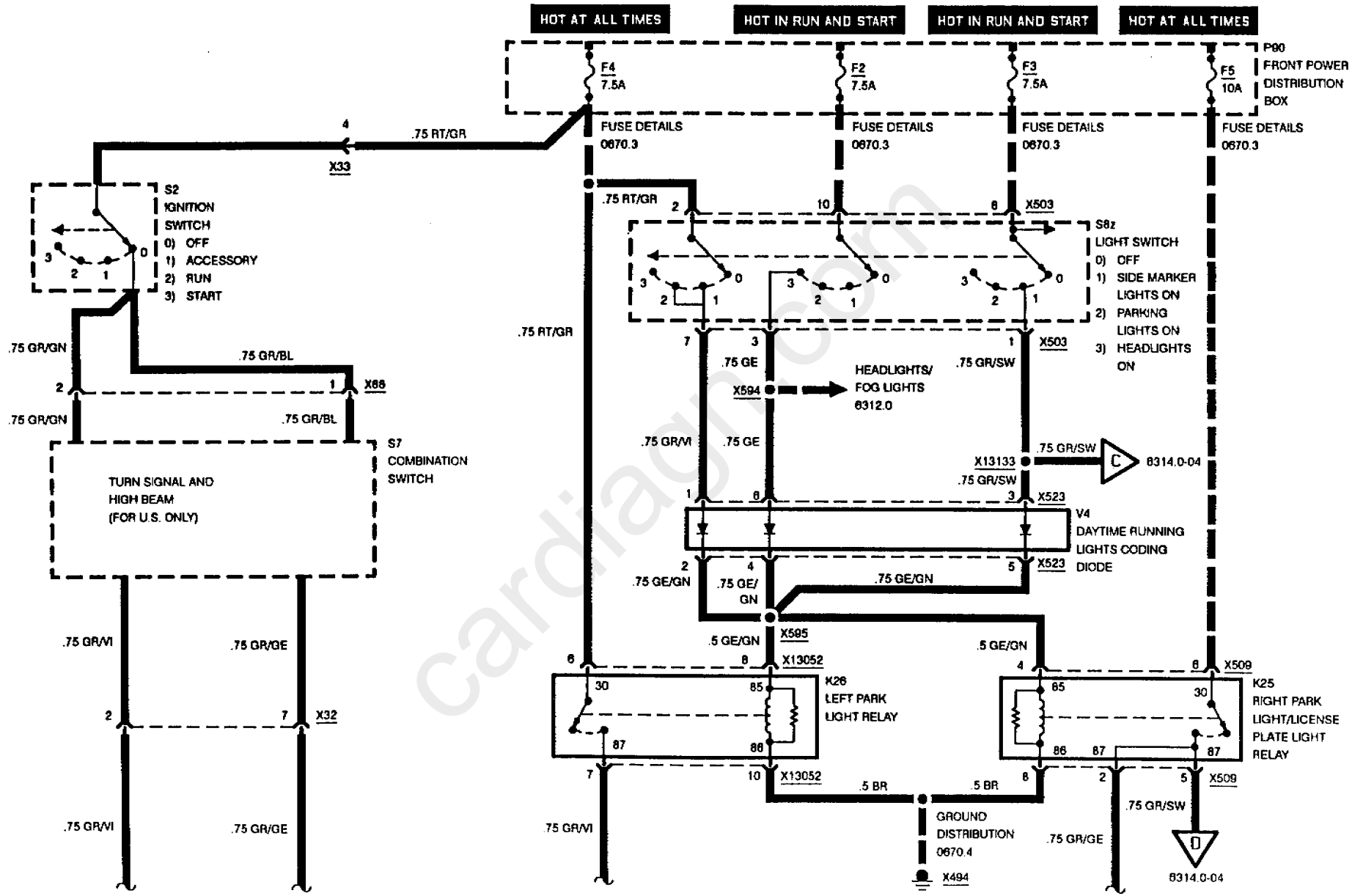


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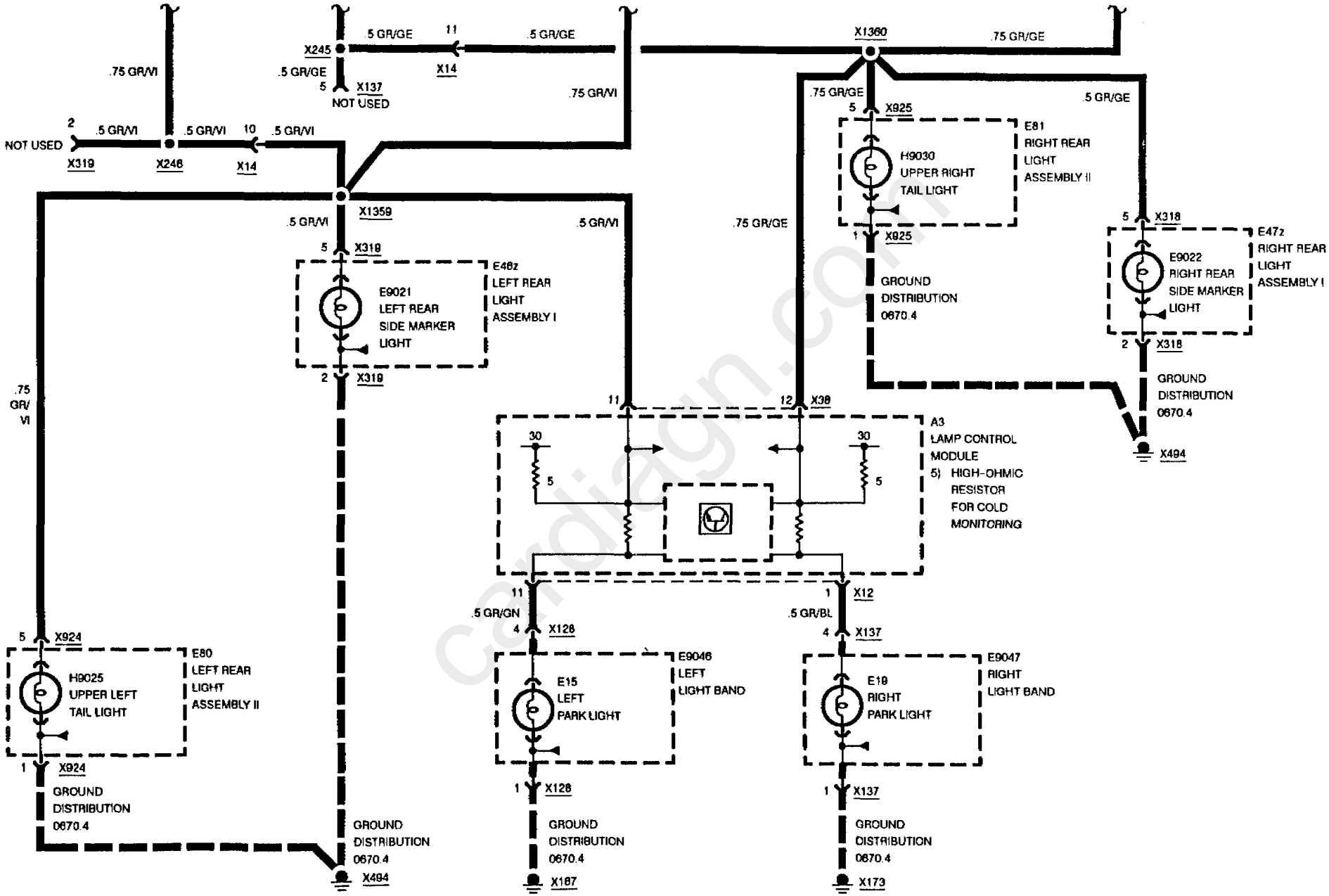


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PARK/TAIL/ UNDERHOOD LIGHTS

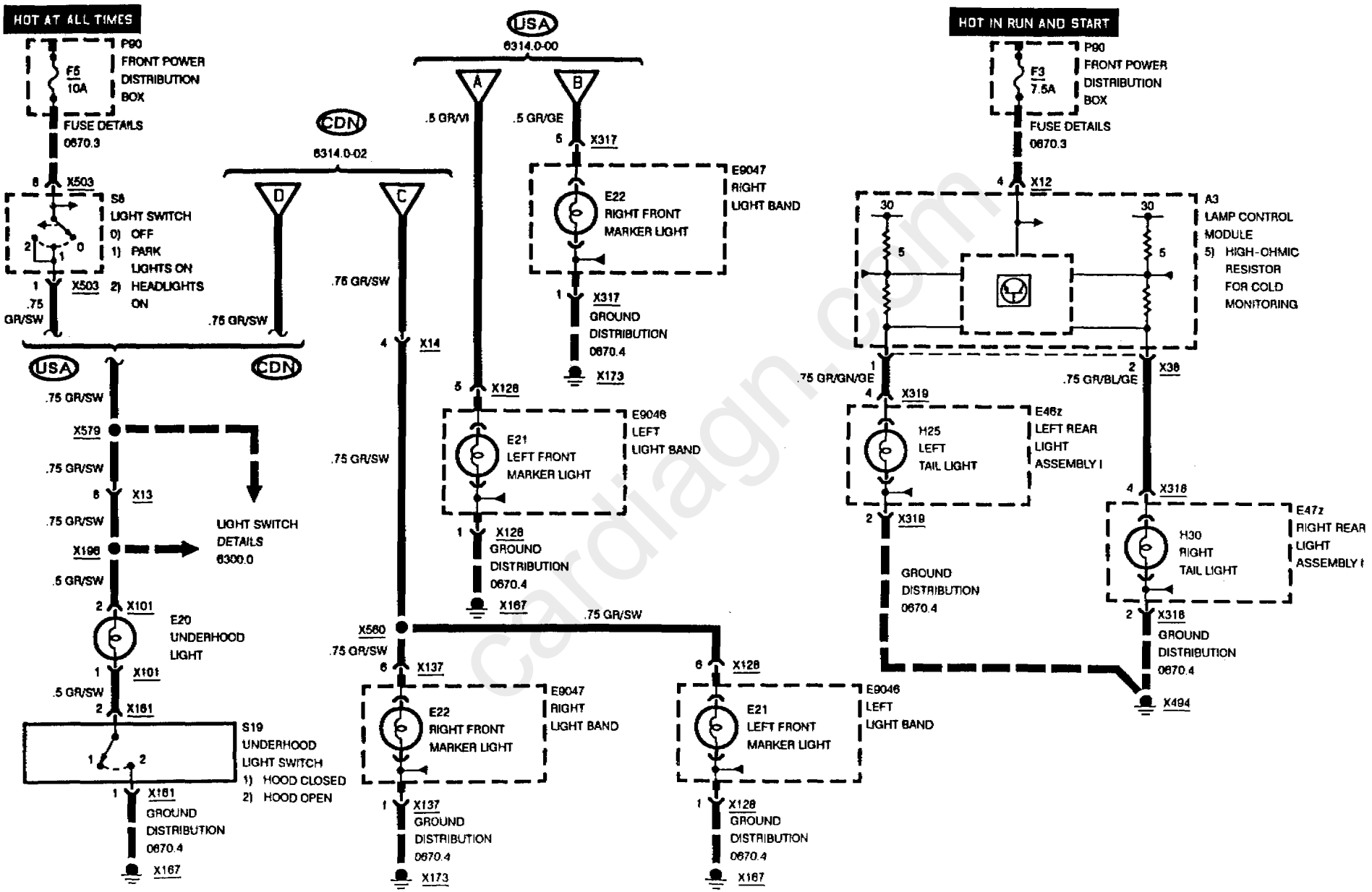


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PARK/TAIL/ UNDERHOOD LIGHTS

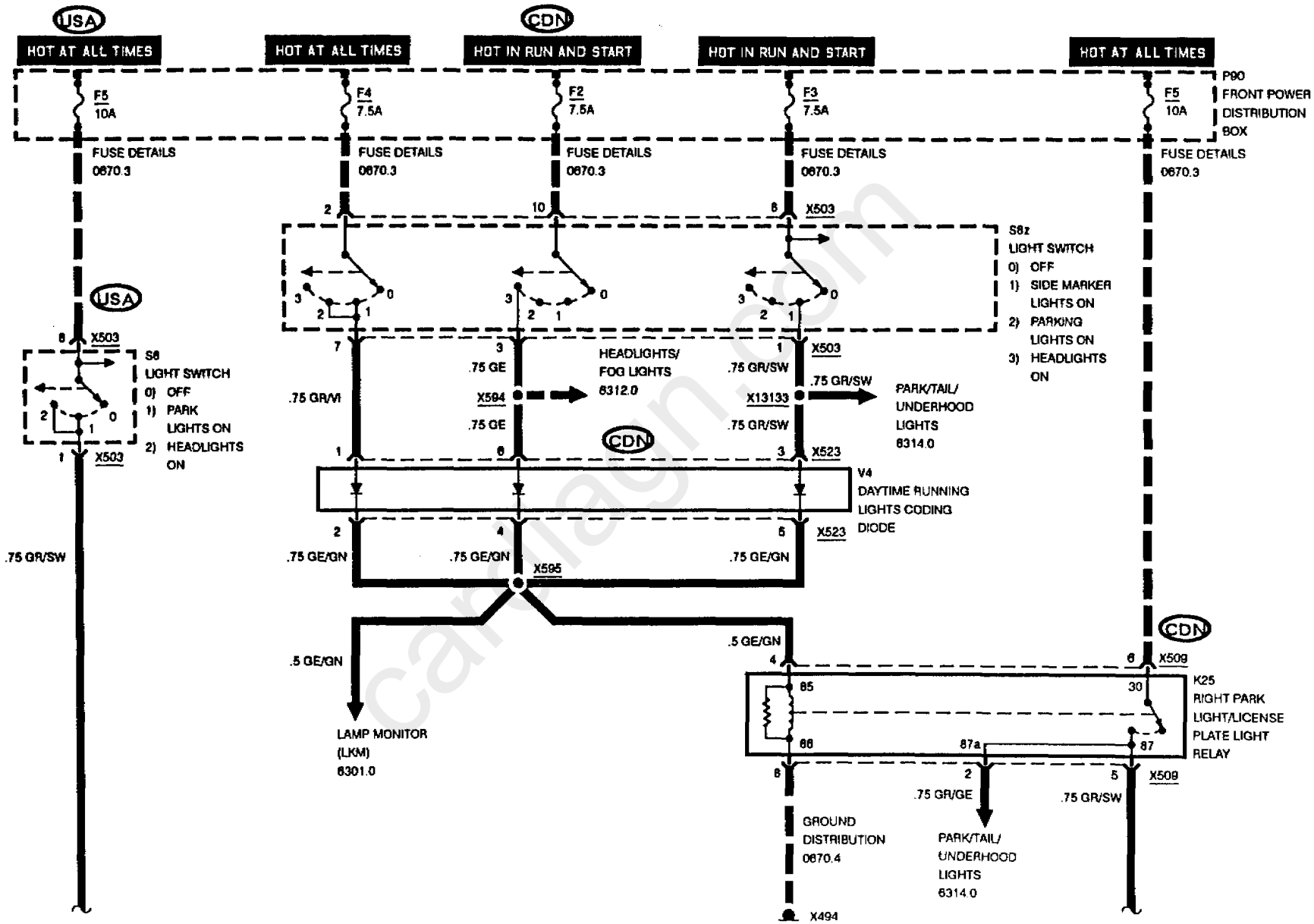


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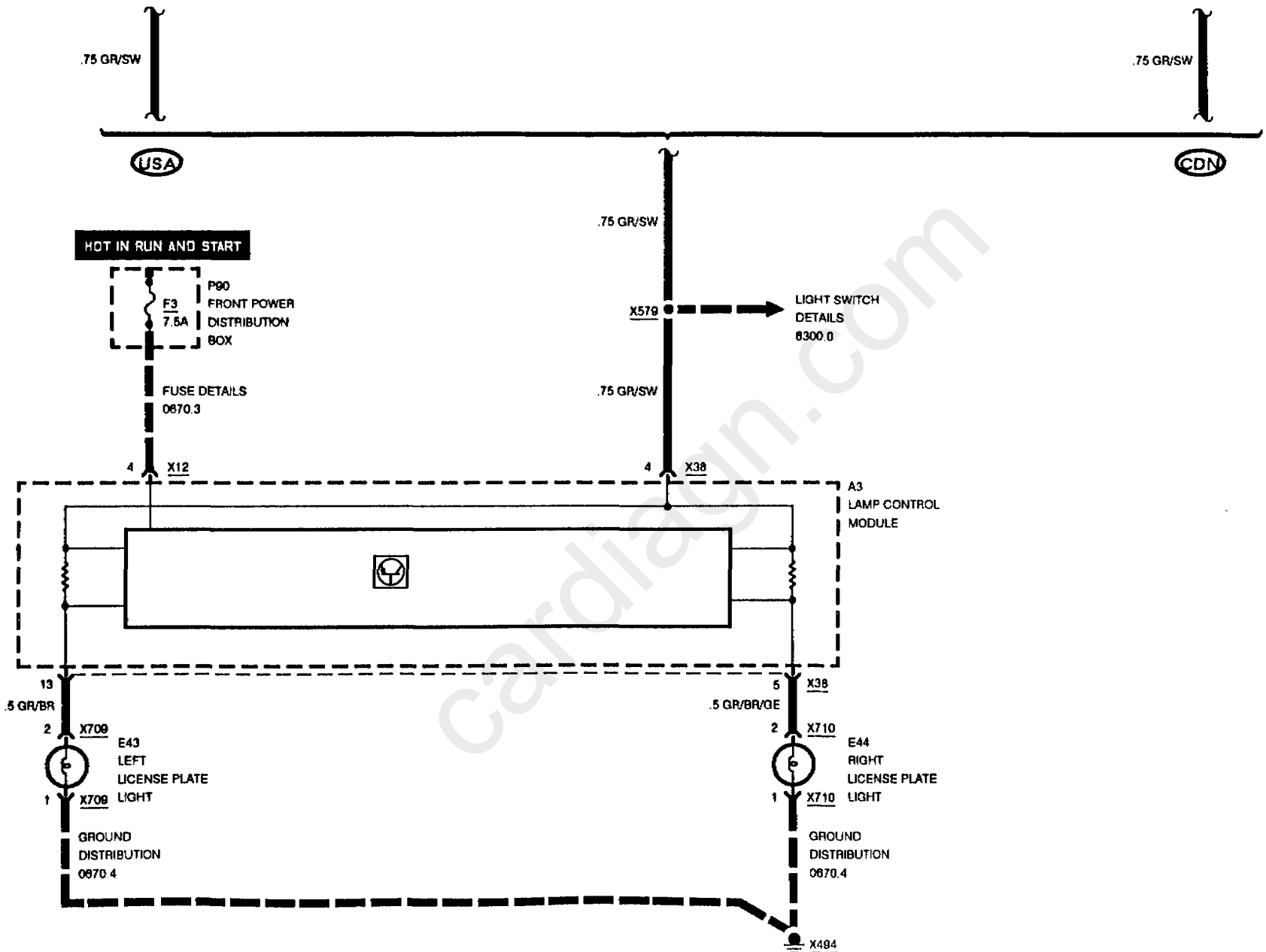
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LICENSE PLATE/ LUGGAGE COMPARTMENT LIGHTS

LICENSE PLATE LIGHTS

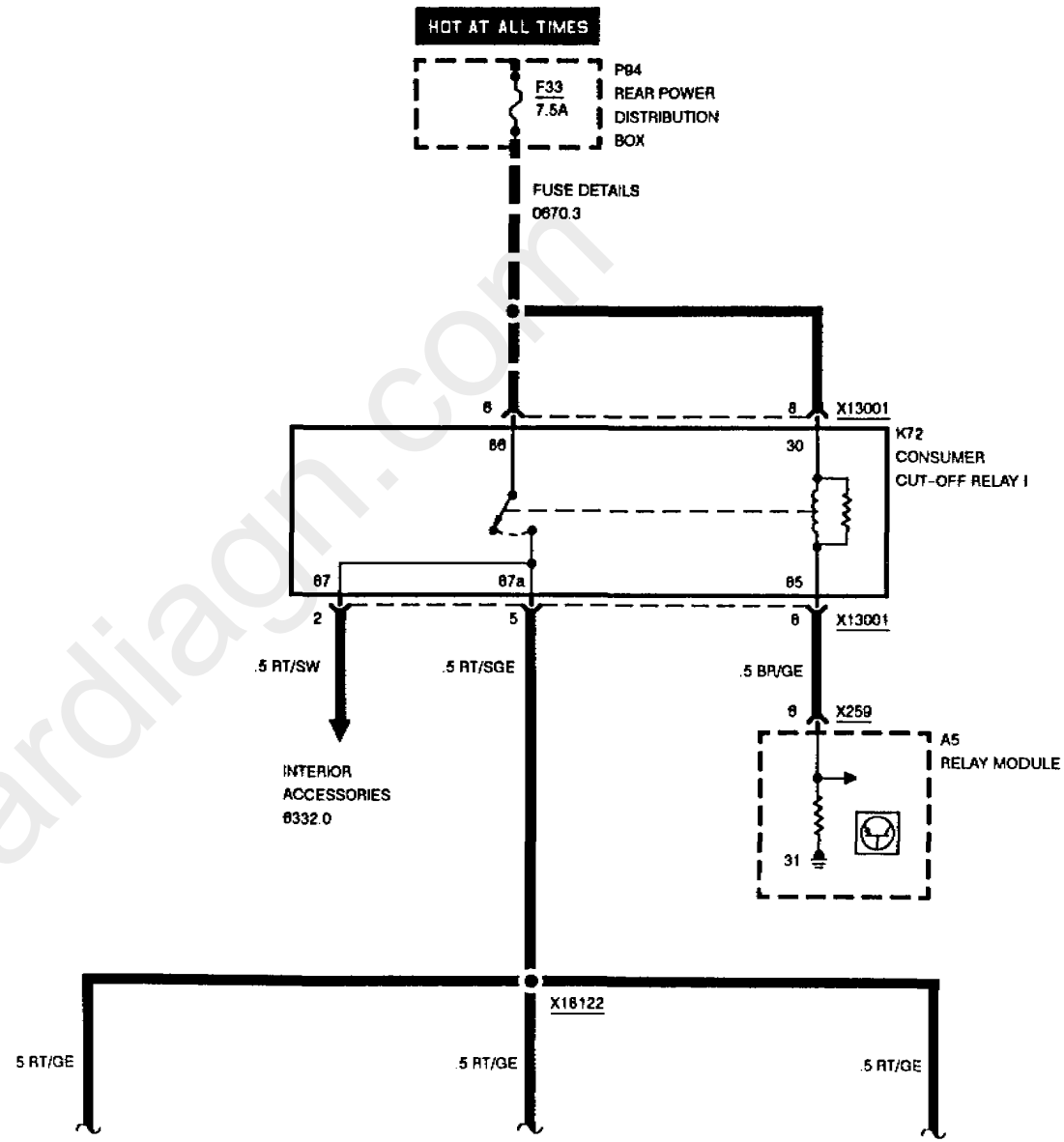


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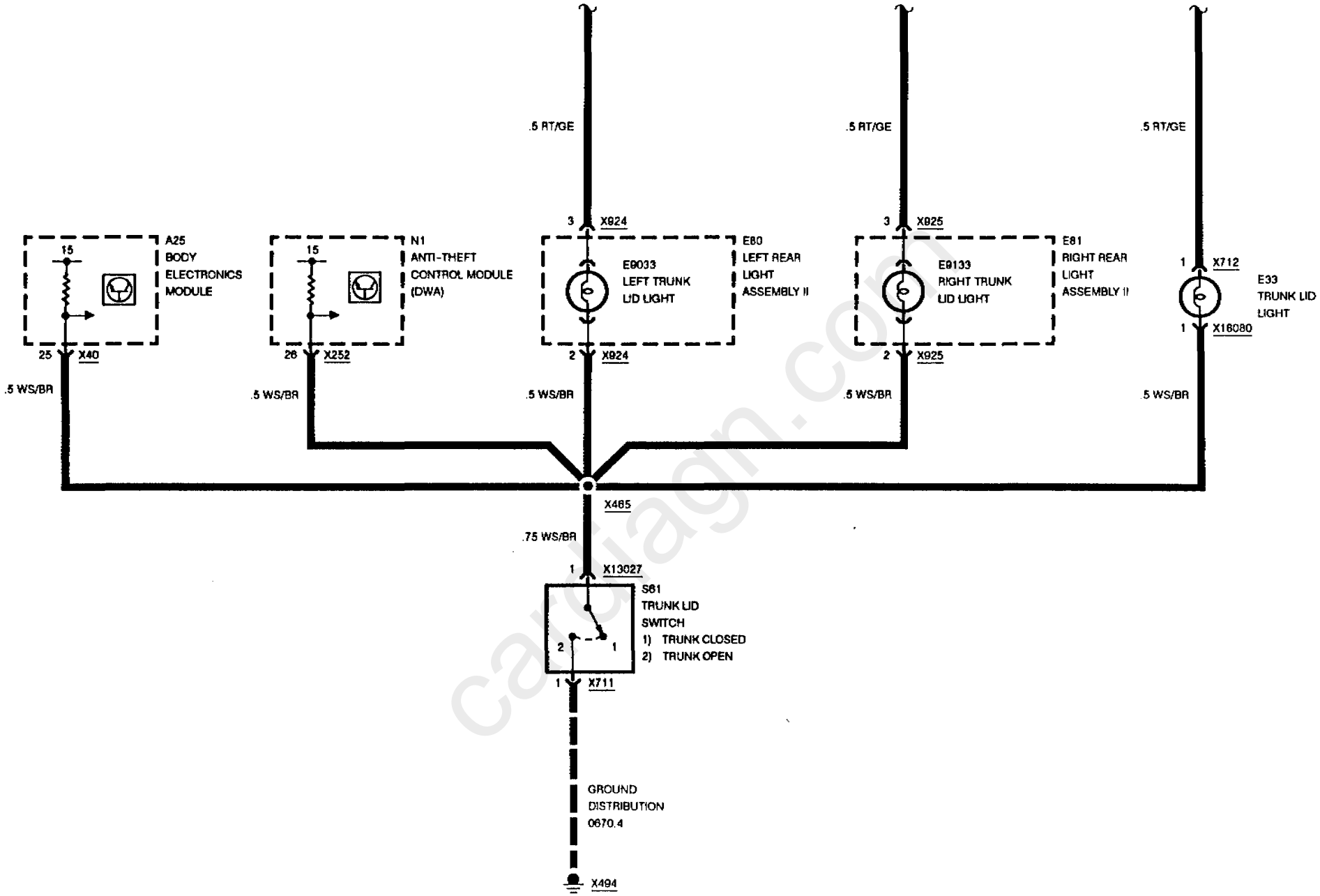


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LICENSE PLATE/ LUGGAGE COMPARTMENT LIGHTS

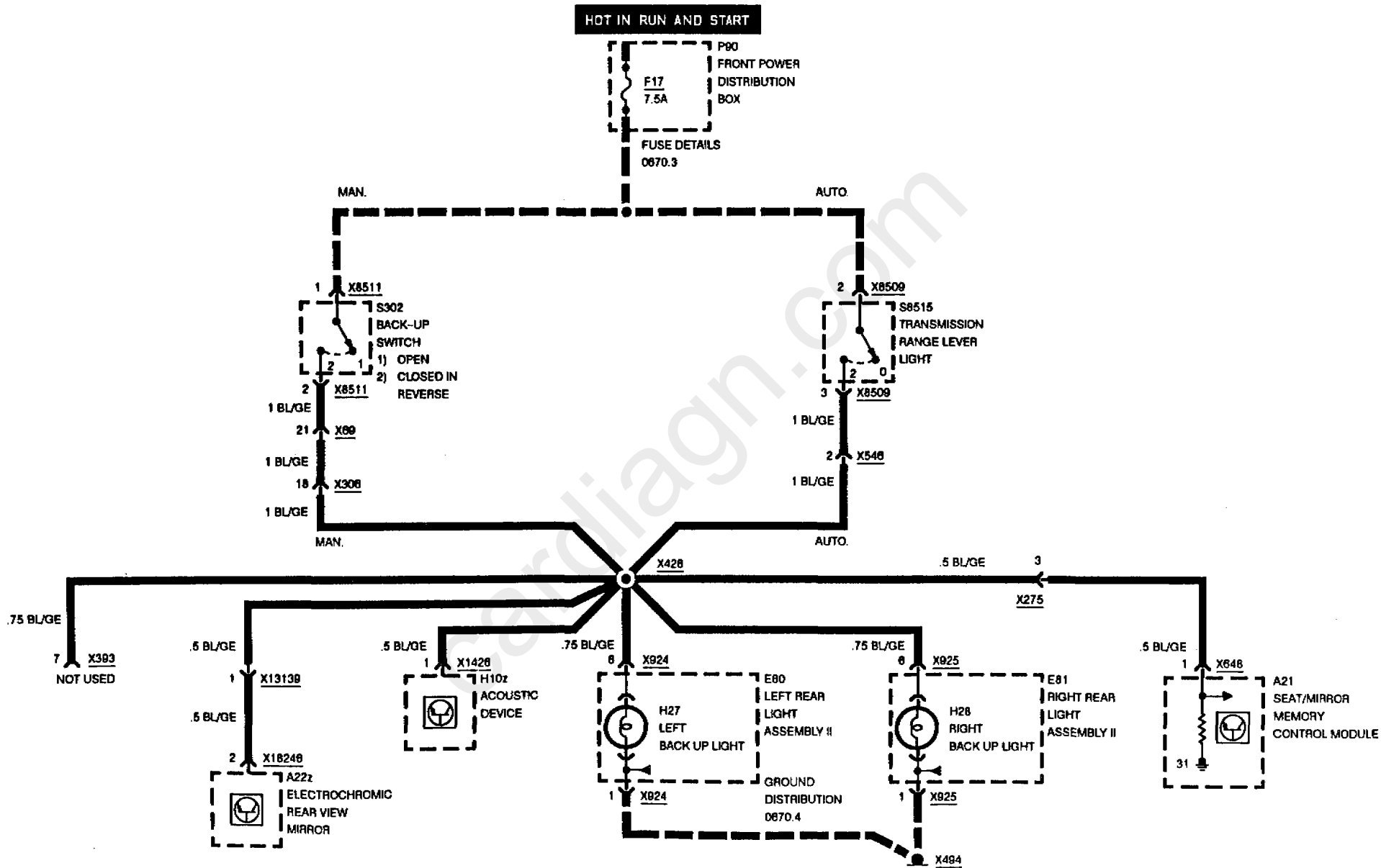


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.5 RT/GE
.5 RT/GE
.5 RT/GE
3 X924
3 X925
1 X712
A25
BODY
ELECTRONICS
MODULE
15
N1
ANTI-THEFT
CONTROL MODULE
(DWA)
15
E9033
LEFT TRUNK
LID LIGHT
E80
LEFT REAR
LIGHT
ASSEMBLY II
E9133
RIGHT TRUNK
LID LIGHT
E81
RIGHT REAR
LIGHT
ASSEMBLY II
E33
TRUNK LID
LIGHT
1 X16080
25 X40
26 X252
2 X924
2 X925
.5 WS/BR
.5 WS/BR
.5 WS/BR
.5 WS/BR
.5 WS/BR
X465
.75 WS/BR
1 X13027
S61
TRUNK LID
SWITCH
1) TRUNK CLOSED
2) TRUNK OPEN
2
1
1 X711
GROUND
DISTRIBUTION
0670.4
X494

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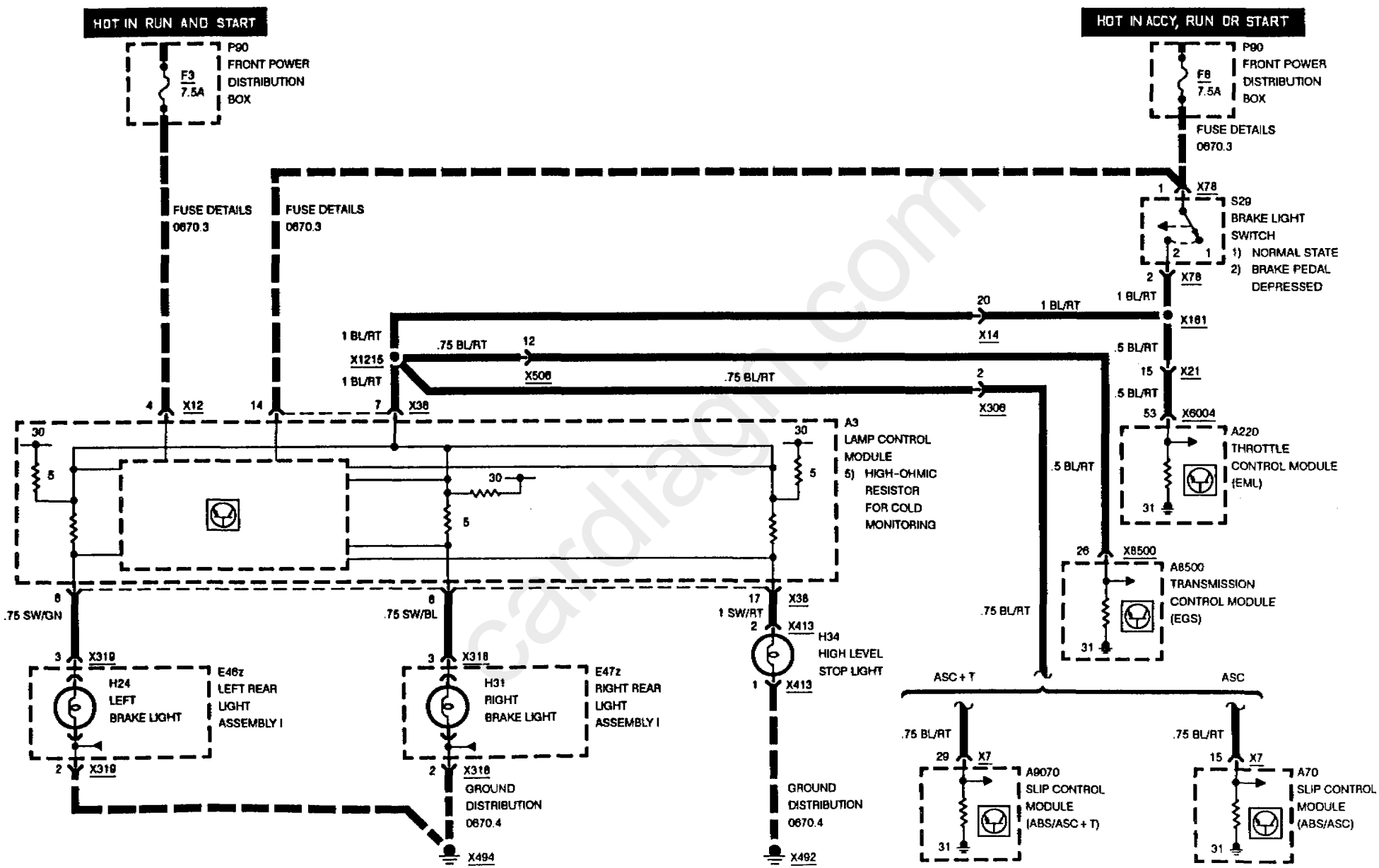
BACK UP LIGHTS



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BRAKE LIGHTS

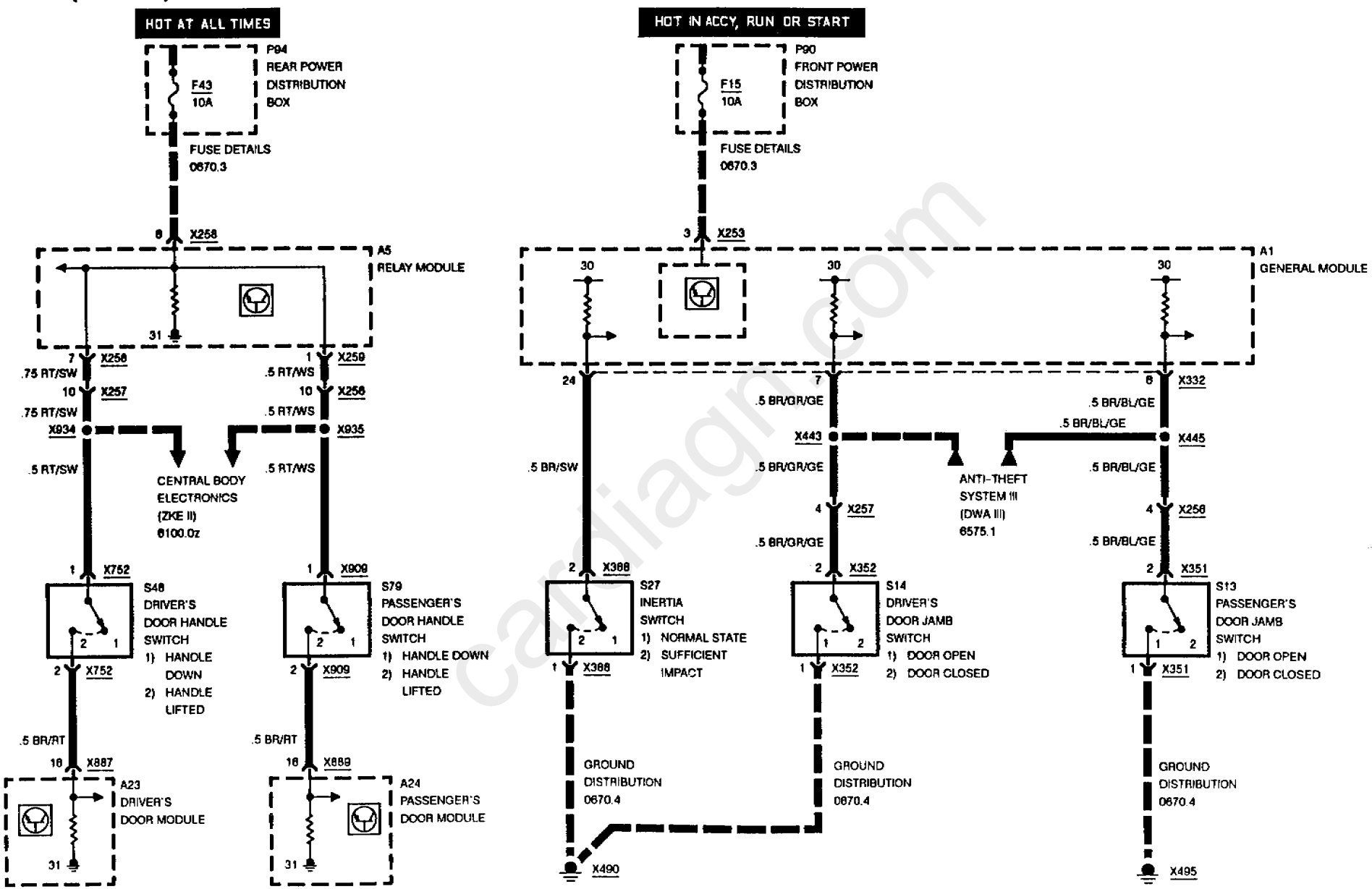


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ZKE INTERIOR LIGHTS (IB)

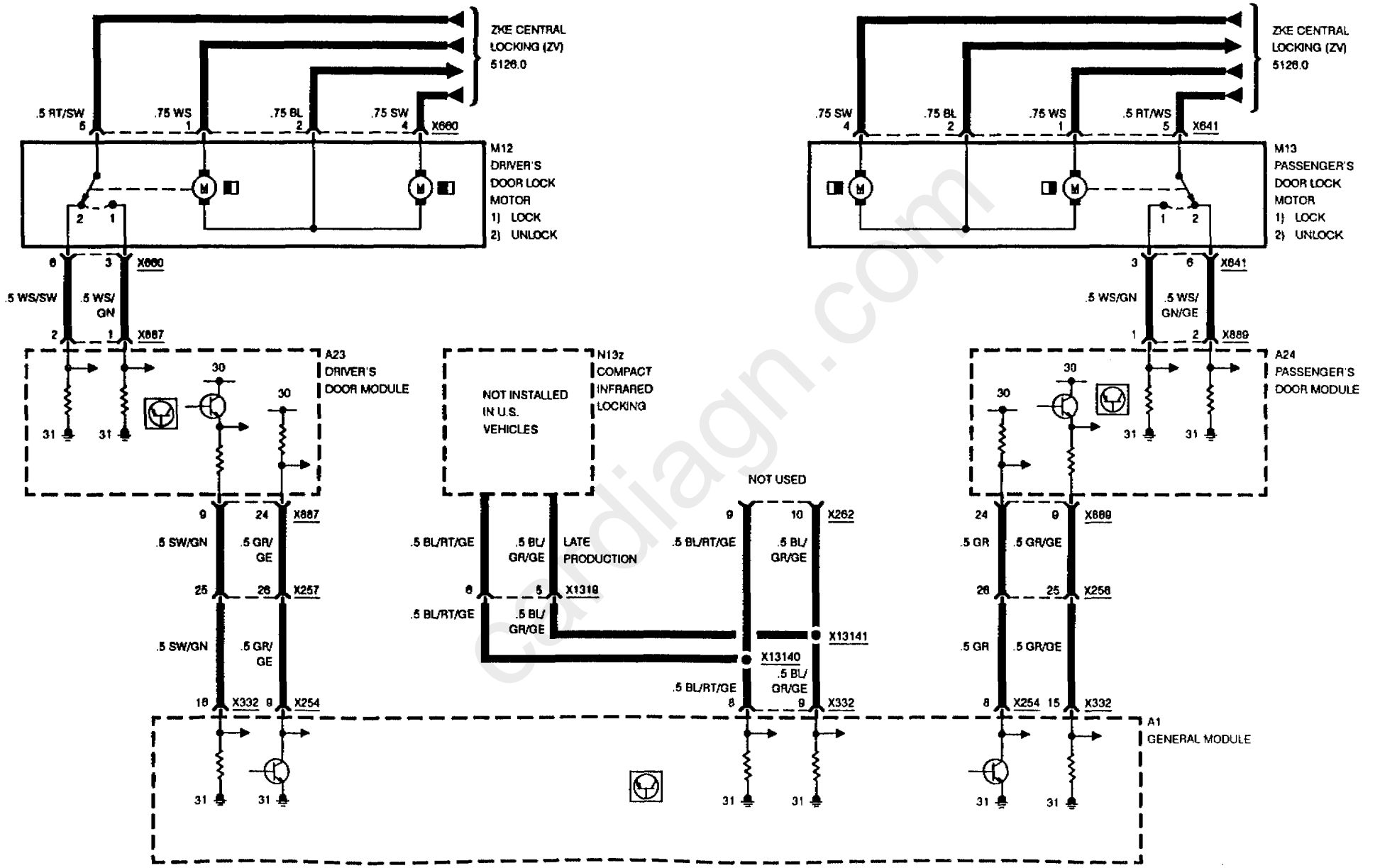
(INPUTS)



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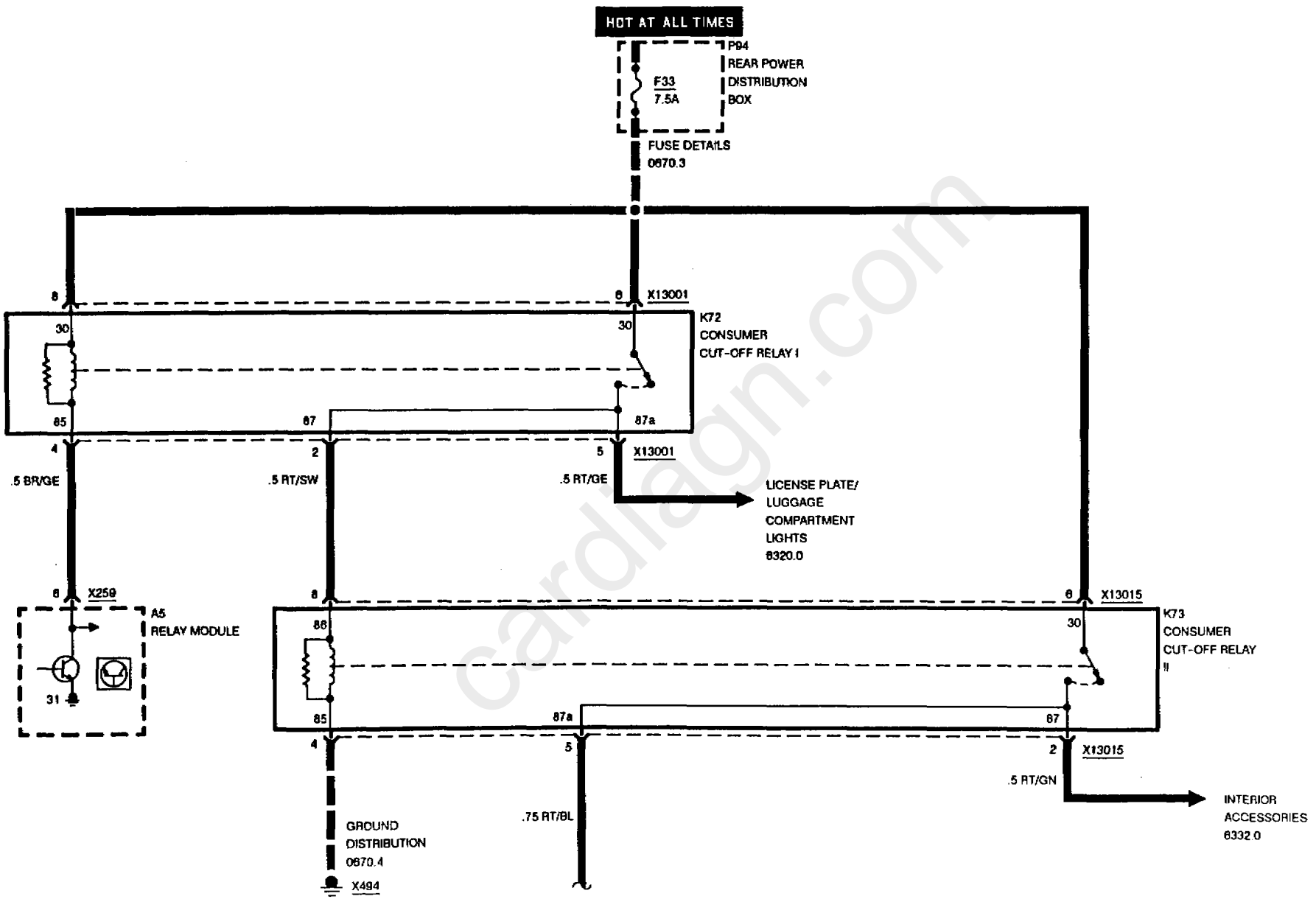
ZKE INTERIOR LIGHTS (IB)

(INPUTS)

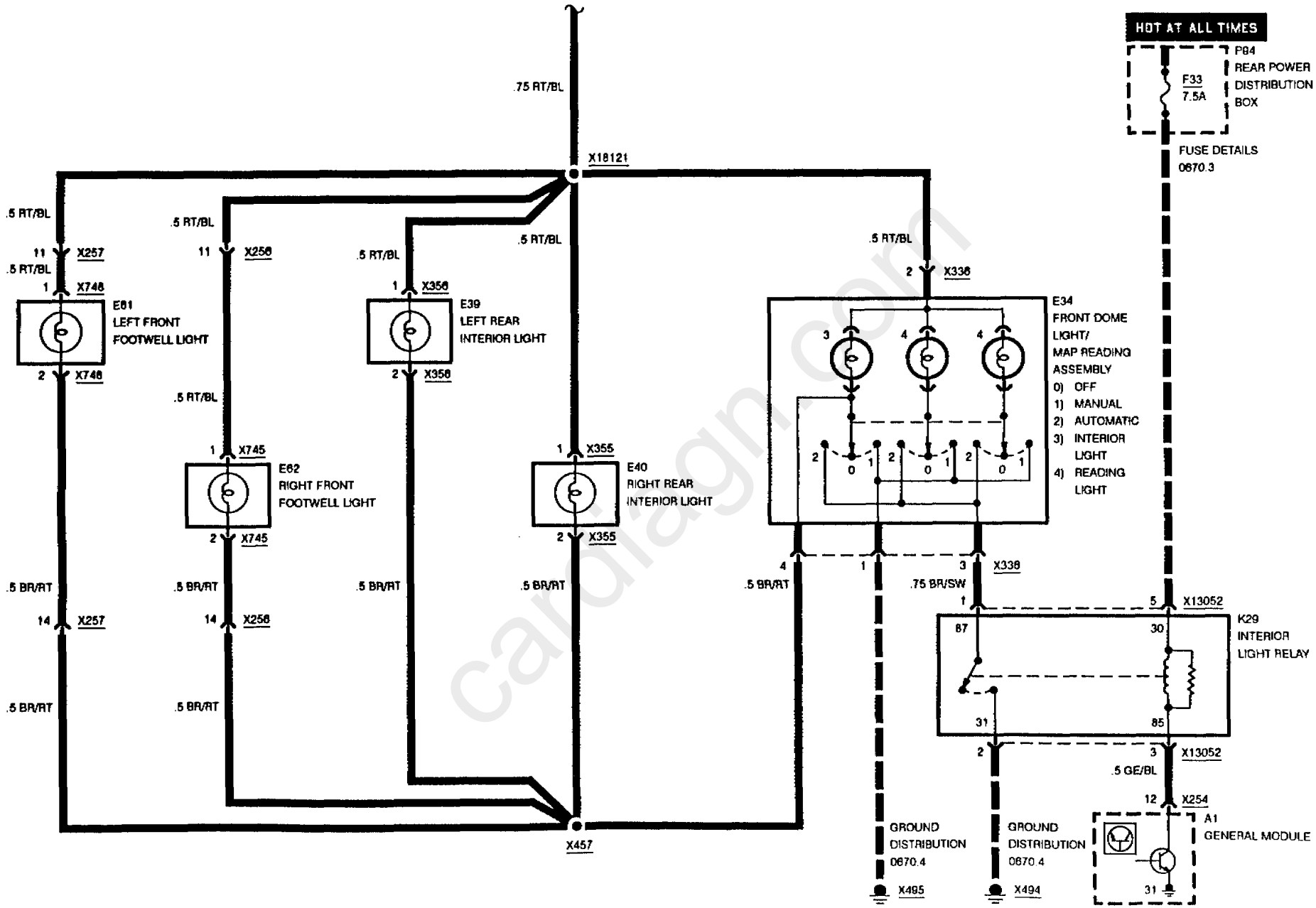


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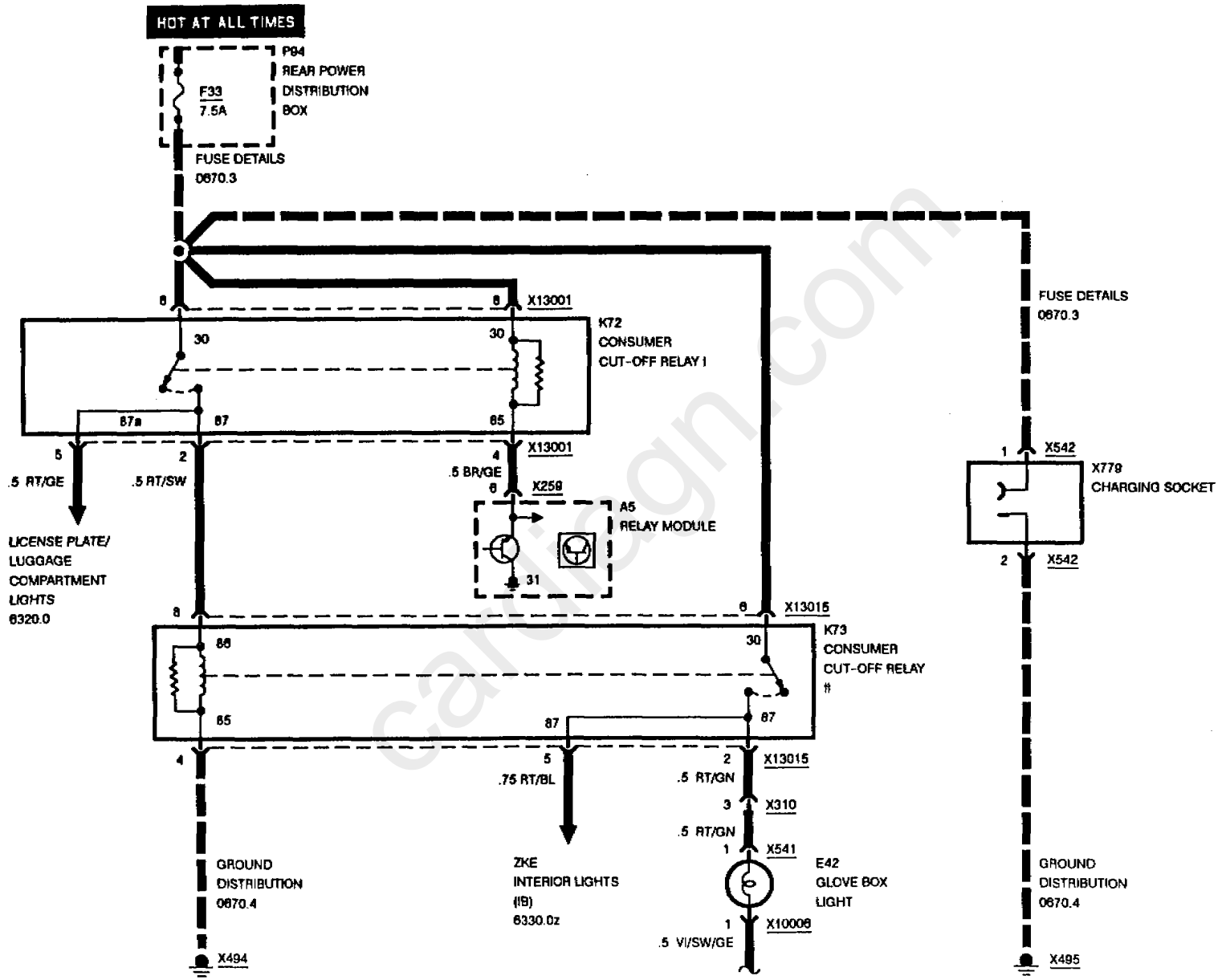
ZKE INTERIOR LIGHTS (IB)

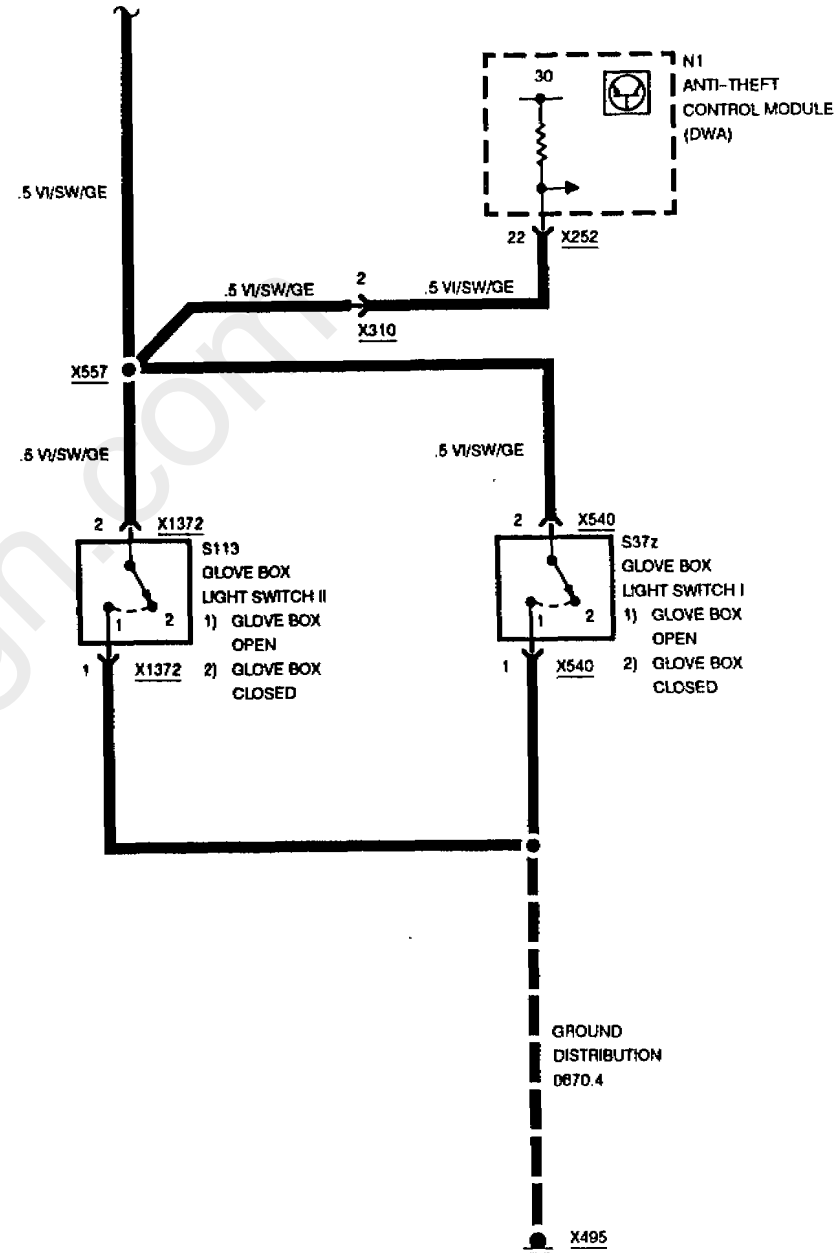


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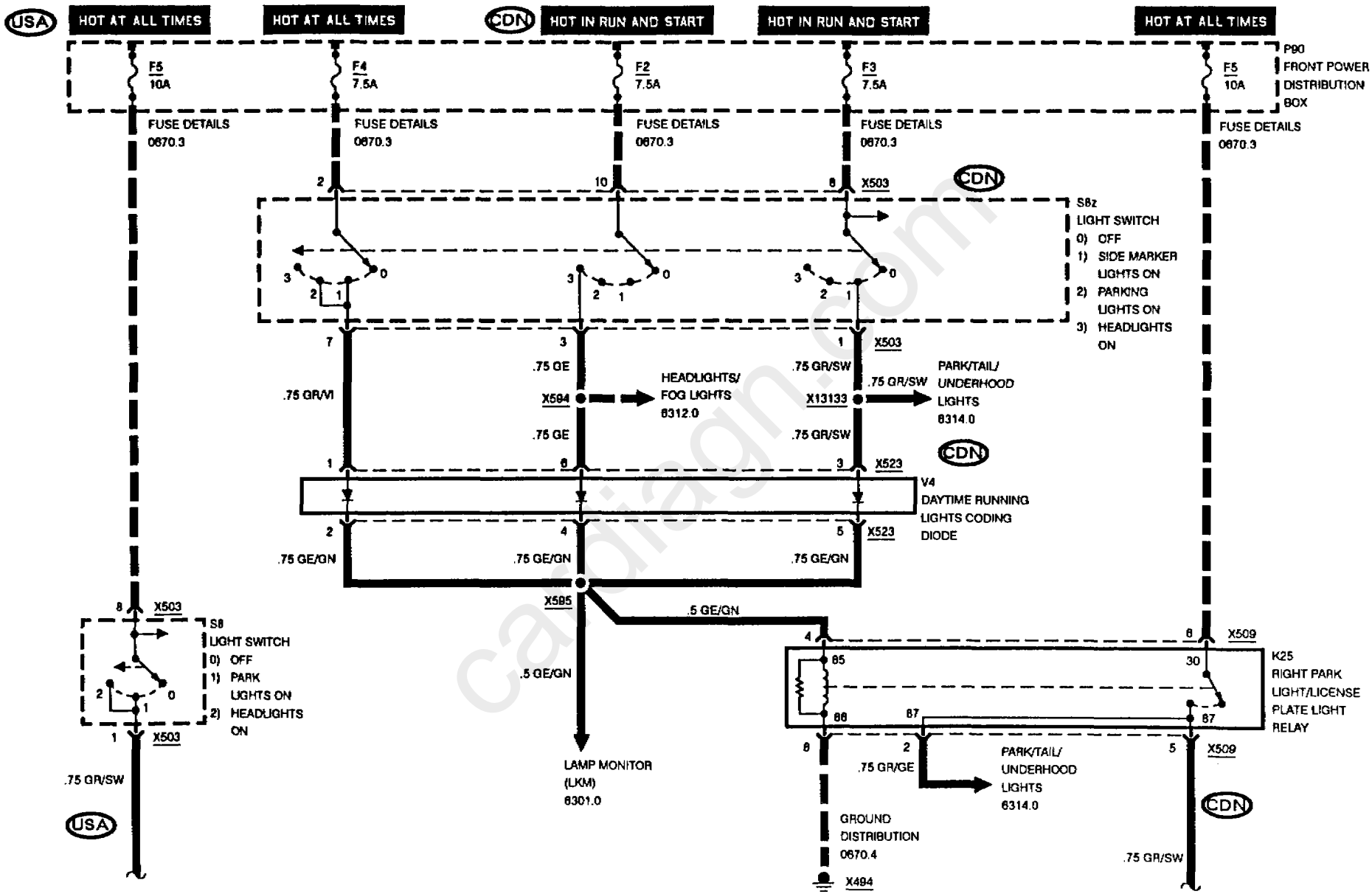

HOT AT ALL TIMES
P84
REAR POWER DISTRIBUTION BOX
F33
7.5A
FUSE DETAILS
0670.3
X13001
K72
CONSUMER CUT-OFF RELAY I
30
87a
87
85
.5 RT/GE
.5 RT/SW
.5 BR/GE
X259
A5
RELAY MODULE
31
LICENSE PLATE/ LUGGAGE COMPARTMENT LIGHTS
6320.0
X13015
K73
CONSUMER CUT-OFF RELAY II
86
85
87
.75 RT/BL
.5 RT/GN
X310
X541
E42
GLOVE BOX LIGHT
X10006
.5 VI/SW/GE
ZKE
INTERIOR LIGHTS (IB)
6330.0z
GROUND DISTRIBUTION
0670.4
X494
X542
X779
CHARGING SOCKET
X495



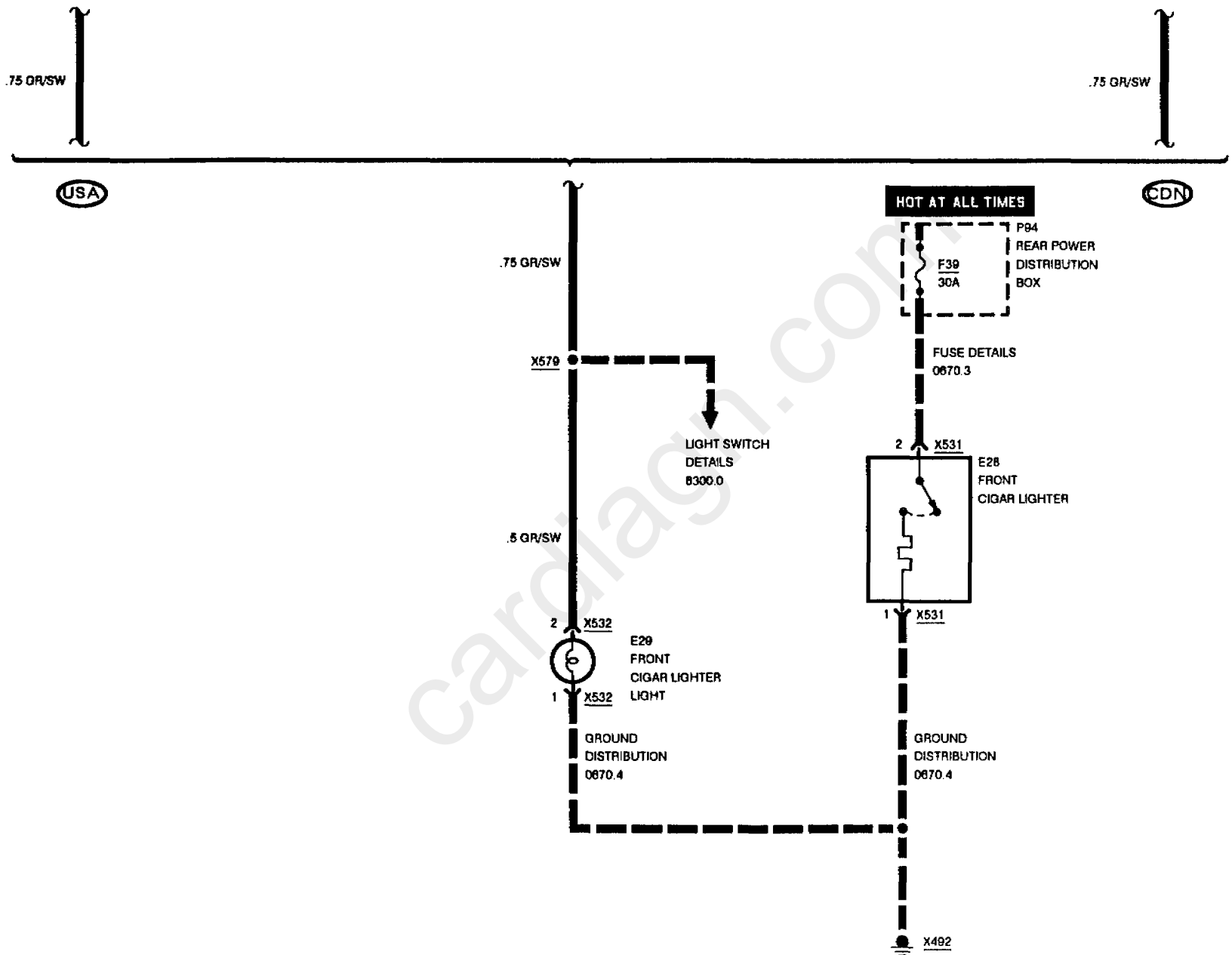
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INTERIOR ACCESSORIES

CIGARETTE LIGHTER

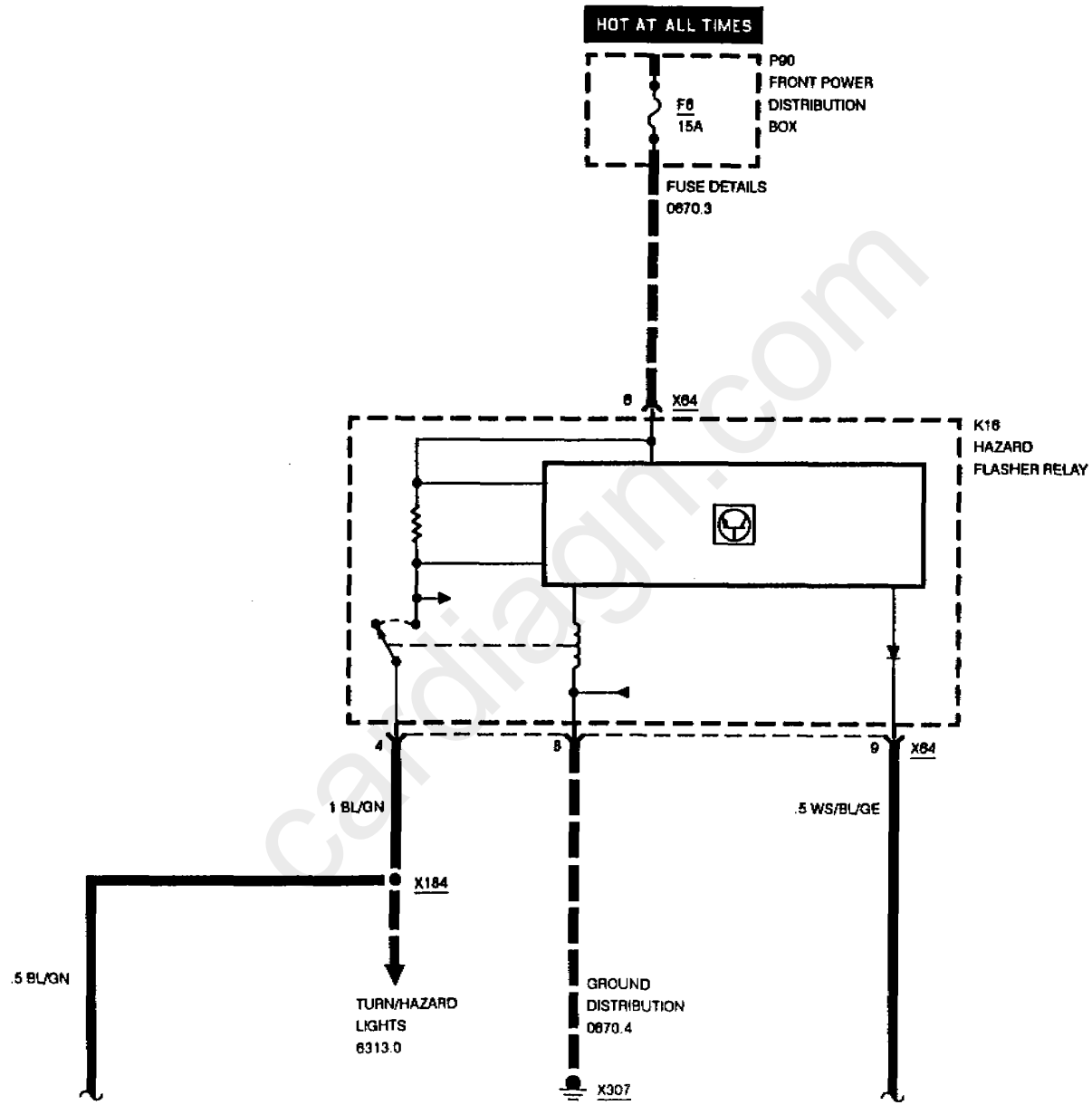


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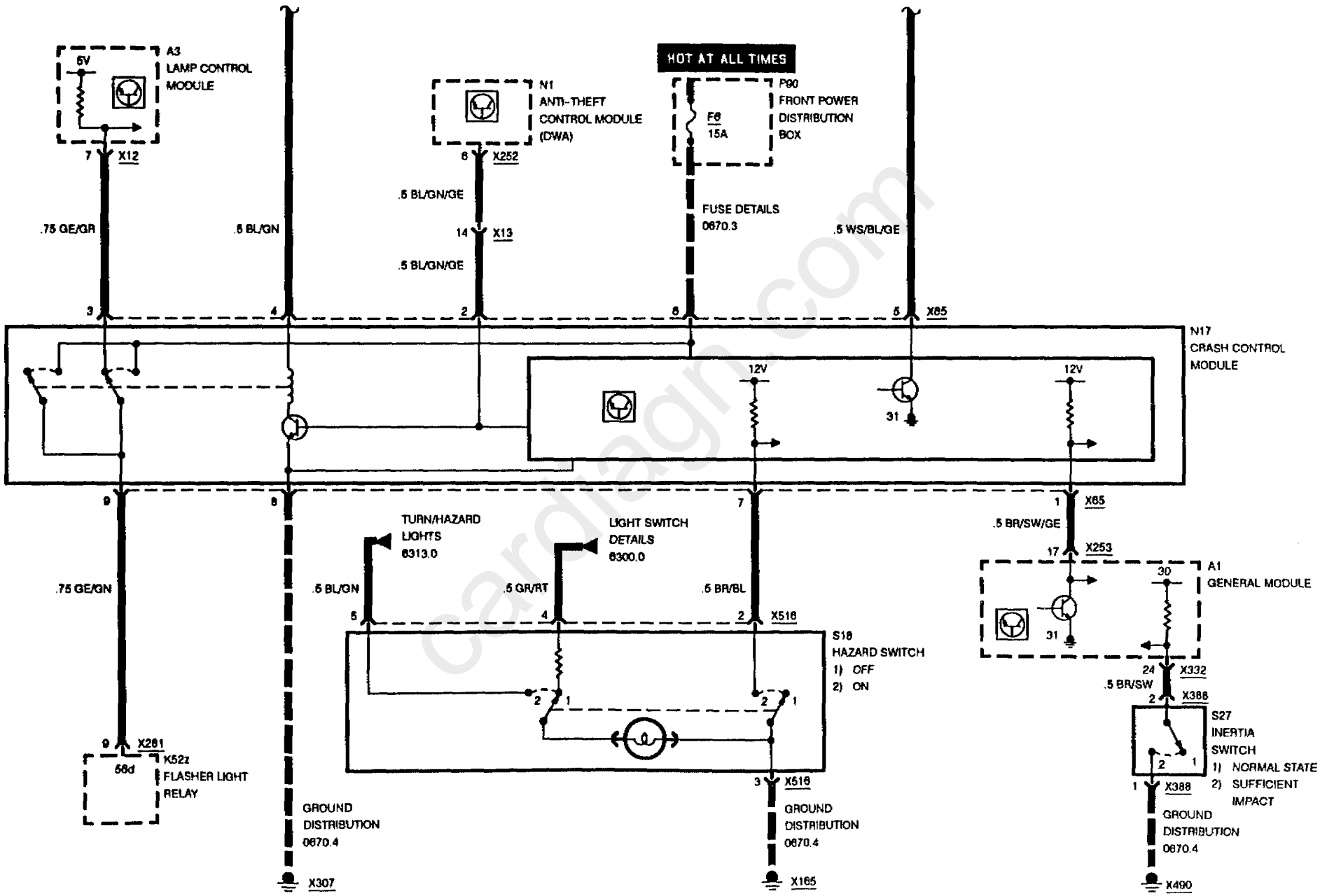


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CRASH CONTROL MODULE

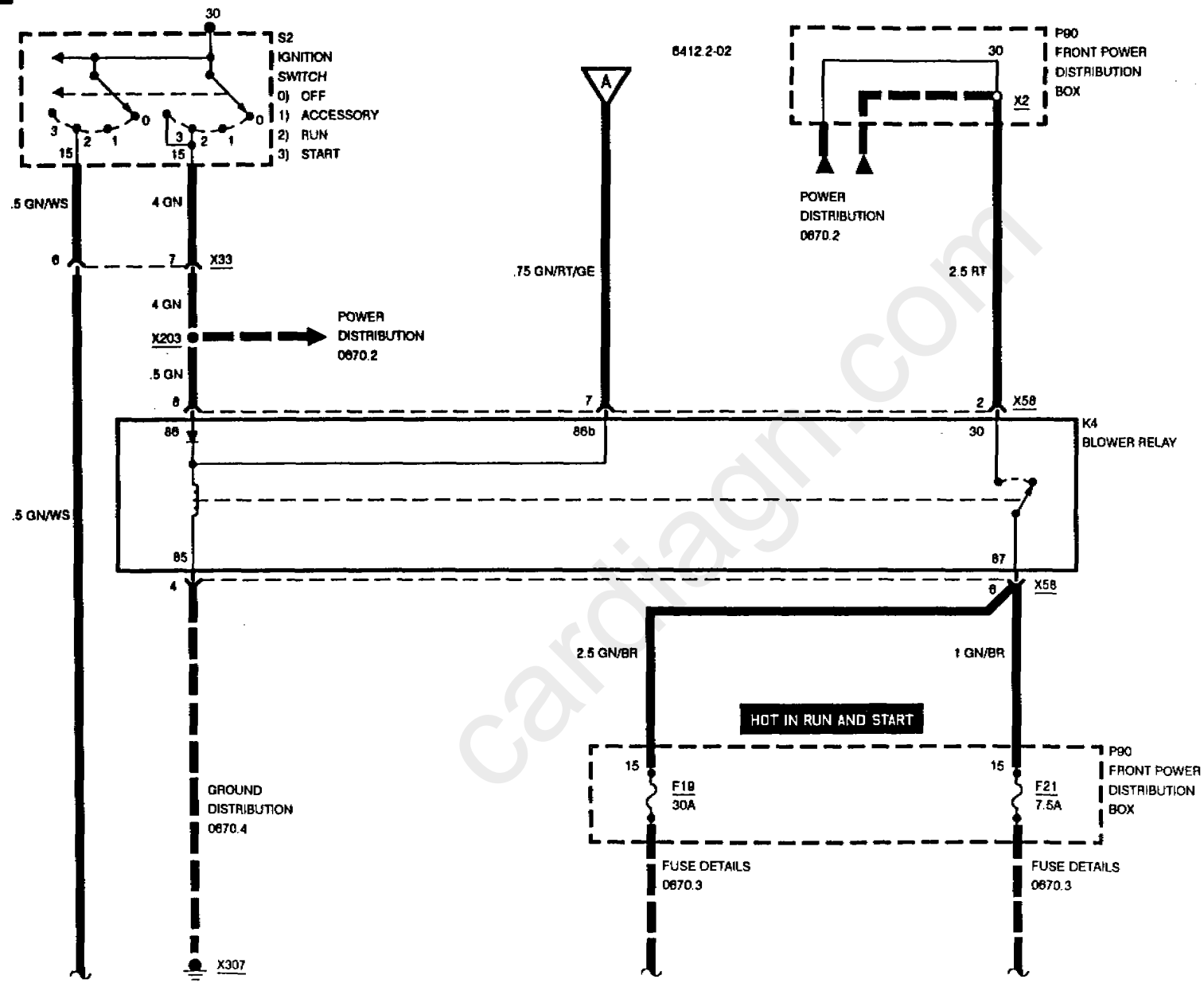


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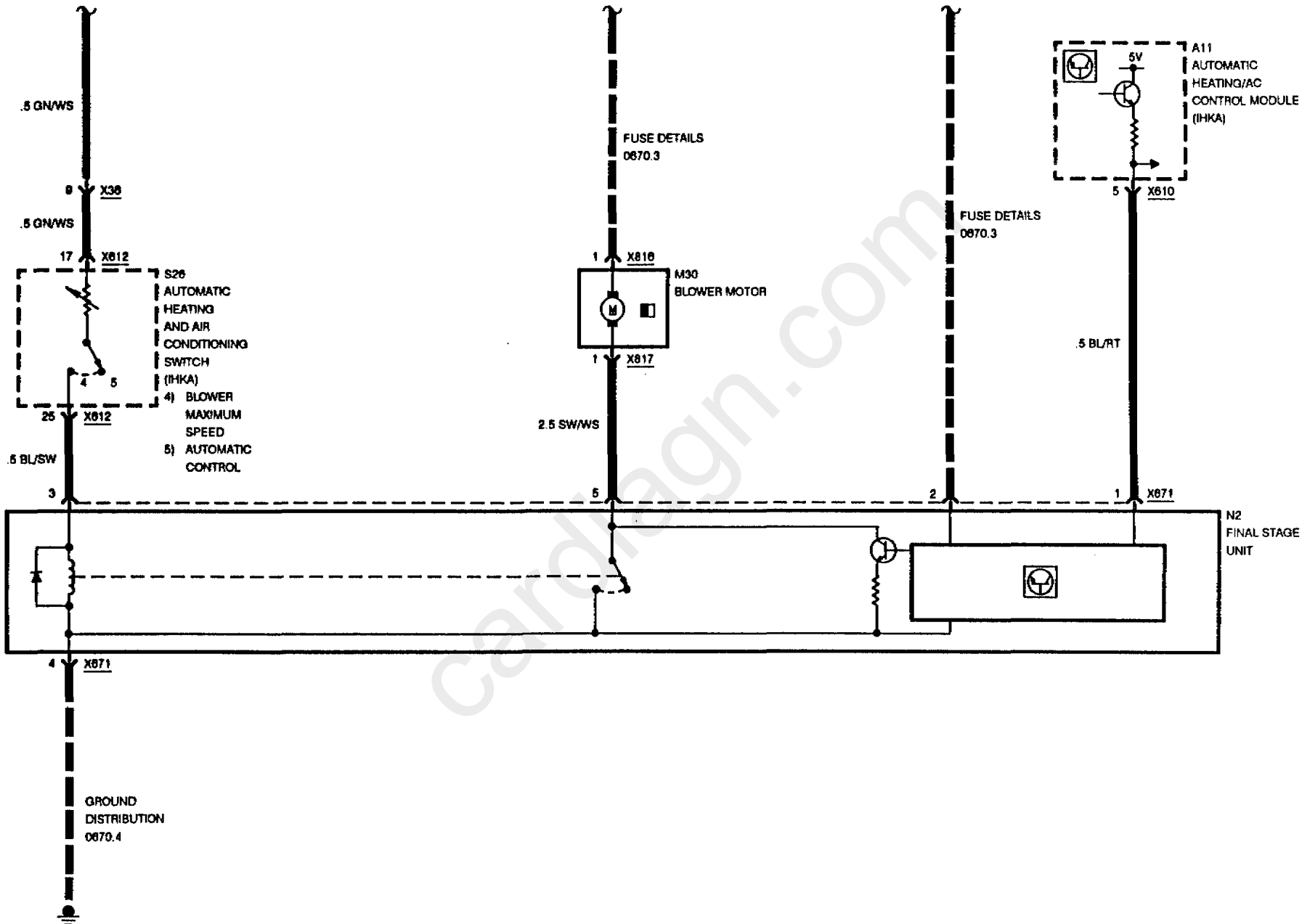


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PARK VENTILATION WITH IHKA

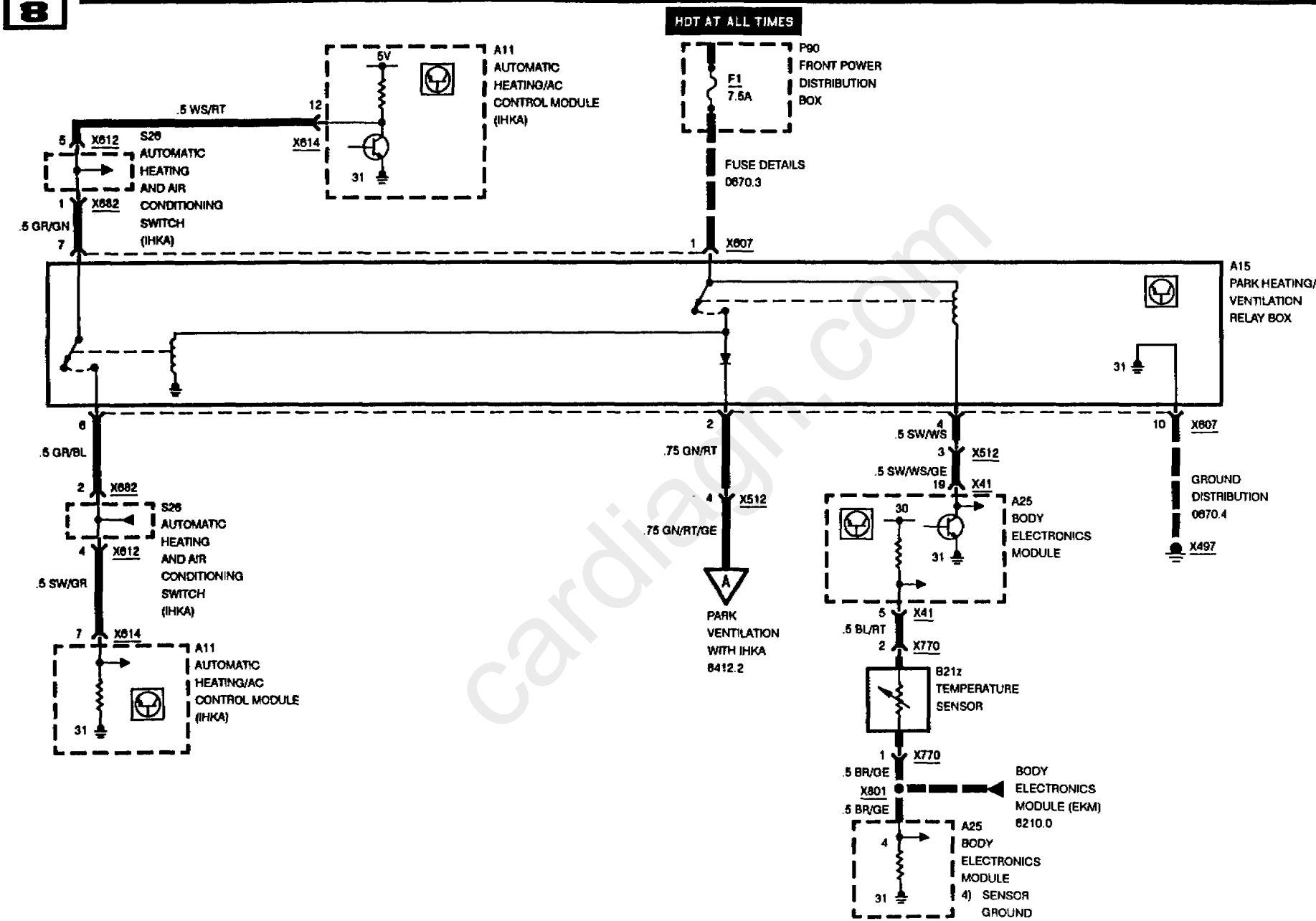


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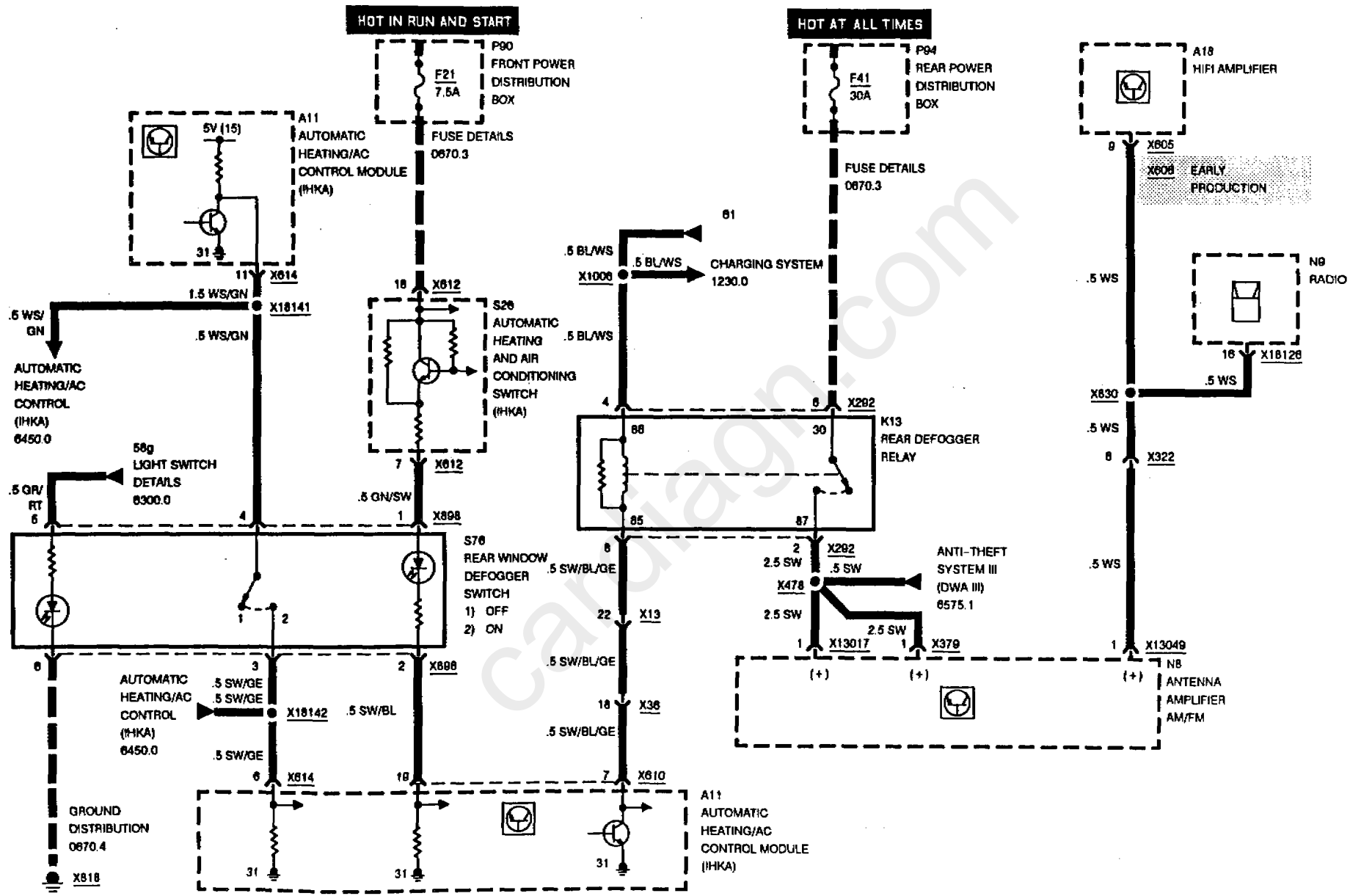
PARK VENTILATION WITH IHKA



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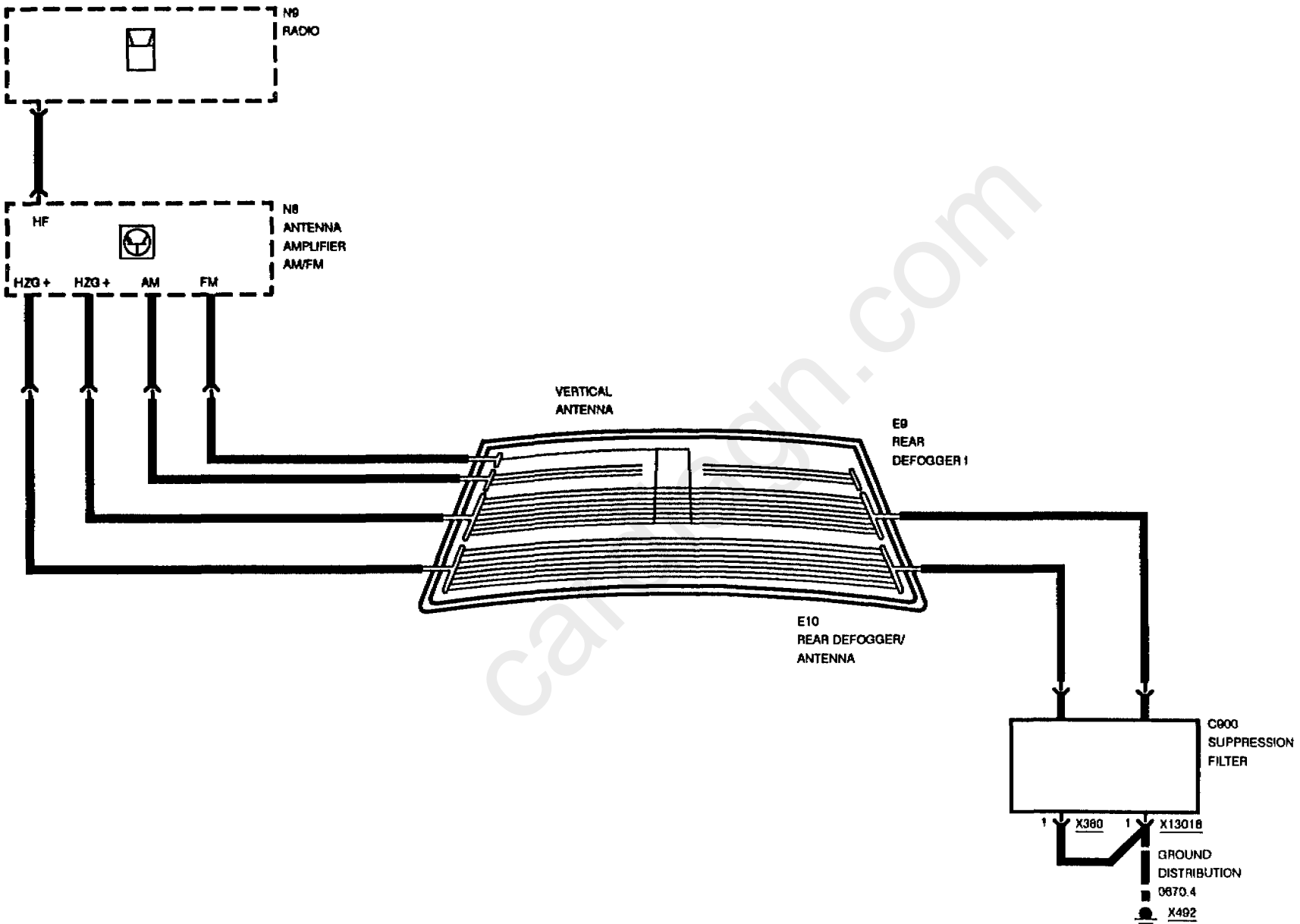
REAR WINDOW DEFOGGER/ ANTENNA



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REAR WINDOW DEFOGGER/ ANTENNA

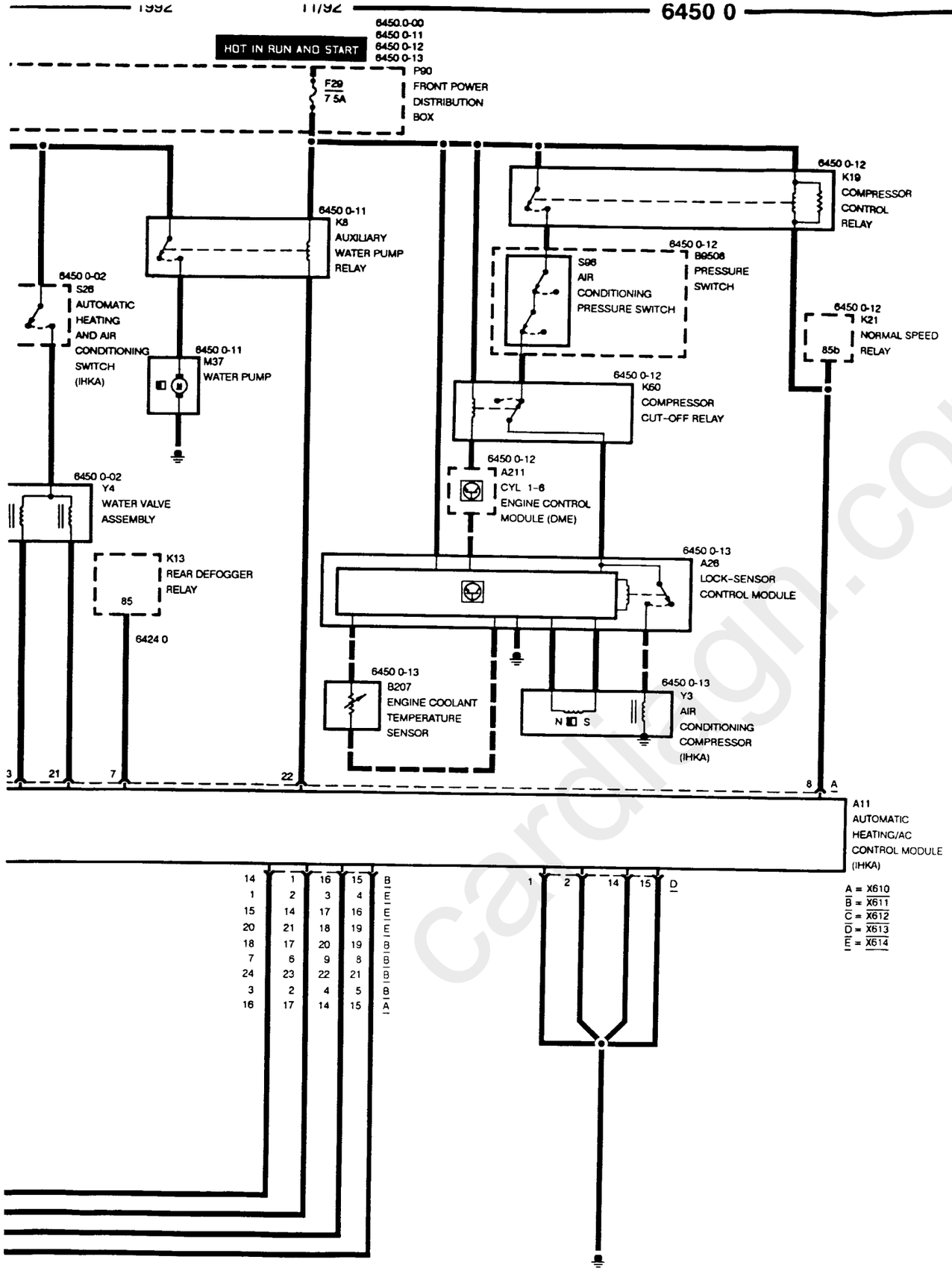
REAR WINDOW ANTENNA

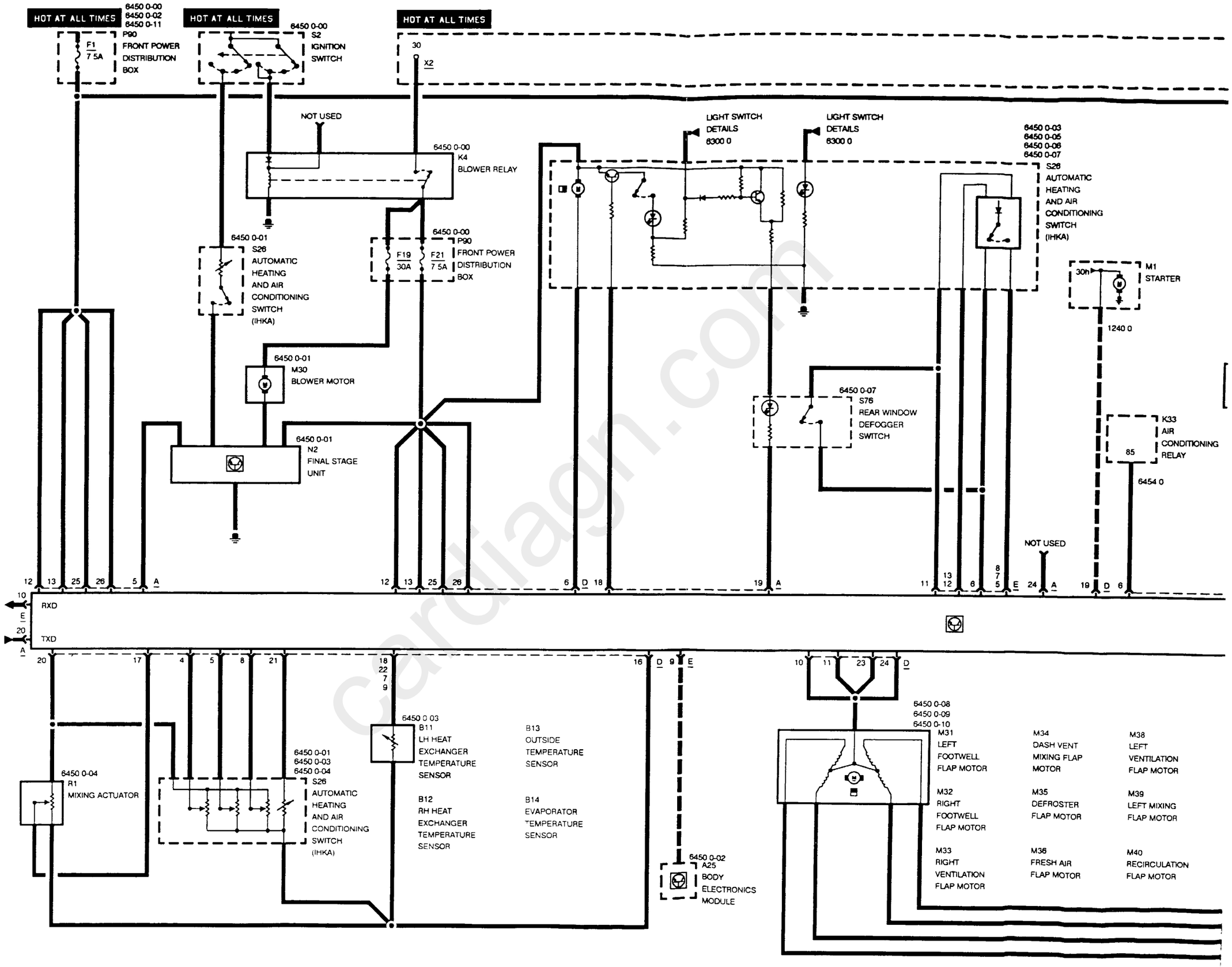


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HOT IN RUN AND START
6450.0-00
6450 0-11
6450 0-12
6450 0-13
P90
FRONT POWER DISTRIBUTION BOX
F29
7.5A
6450 0-12
K19
COMPRESSOR CONTROL RELAY
6450 0-11
K8
AUXILIARY WATER PUMP RELAY
6450 0-12
B9508
PRESSURE SWITCH
S98
AIR CONDITIONING PRESSURE SWITCH
6450 0-12
K21
NORMAL SPEED RELAY
85b
6450 0-02
S28
AUTOMATIC HEATING AND AIR CONDITIONING SWITCH (IHKA)
6450 0-11
M37
WATER PUMP
6450 0-12
K50
COMPRESSOR CUT-OFF RELAY
6450 0-12
A211
CYL 1-6 ENGINE CONTROL MODULE (DME)
6450 0-02
Y4
WATER VALVE ASSEMBLY
K13
REAR DEFOGGER RELAY
85
6424 0
6450 0-13
A26
LOCK-SENSOR CONTROL MODULE
6450 0-13
B207
ENGINE COOLANT TEMPERATURE SENSOR
6450 0-13
Y3
AIR CONDITIONING COMPRESSOR (IHKA)
N S
3
21
7
22
8
A
A11
AUTOMATIC HEATING/AC CONTROL MODULE (IHKA)
A = X610
B = X611
C = X612
D = X613
E = X614
14 1 16 15 B
1 2 3 4 E
15 14 17 16 E
20 21 18 19 E
18 17 20 19 B
7 6 9 8 B
24 23 22 21 B
3 2 4 5 B
16 17 14 15 A
1 2 14 15 D



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Pin Assignments

A=X610 26 pins, white
B=X611 26 pins, green
C=X612 26 pins, blue
D=X613 26 pins, blue
E=X614 26 pins, yellow

X610

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1		Not used				
2		Not used				
3		Not used				
4		Not used				
5	A	Blower output stage activation	Final stage unit	approx. 0 V – 4,3 V	0–12 V at blower	
6	A	Air conditioning	Air conditioning relay	approx. 0,8 V approx. 12 V	ON OFF	
7	A	Rear window defogger relay activation	Rear window defogger relay	approx. 0,4 V approx. 12 V	ON OFF	approx. 12 V only with engine running
8	A	A/C relay/auxiliary fan relay stage 1 activation	A/C relay/auxiliary fan relay	approx. 0,8 V approx. 12 V	ON OFF	
9		Not used				
10		Not used				

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Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
11		Not used				
12	E	Plus terminal 30	Front power distribution box	approx. 12 V		
13	E	Plus terminal 30	Front power distribution box	approx. 12 V		
14	A	Circulating air flap motor activation	Footwell flap motor	Frequency (square–wave voltage)	0 %–100 %	approx. 84 Ω/winding with flap motor disconnected
15	A	Circulating air flap motor activation	Footwell flap motor	Frequency (square–wave voltage)	0 %–100 %	approx. 84 Ω/winding with flap motor disconnected
16	A	Circulating air flap motor activation	Footwell flap motor	Frequency (square–wave voltage)	0 %–100 %	approx. 84 Ω/winding with flap motor disconnected
17	A	Circulating air flap motor activation	Footwell flap motor	Frequency (square–wave voltage)	0 %–100 %	approx. 84 Ω/winding with flap motor disconnected
18	A	Function light activation	IHKA switch	approx. 12 V approx. 0,7 V		Air flow control wheel OFF Air flow control wheel ON
19	A	Rear window defogger switch light activation	Rear window defogger switch	approx. 12 V approx. 0,7 V		Rear window defogger OFF Rear window defogger ON
20	A	Diagnosis	Diagnostic socket TxD			
21	A	Left water vale activation	Water value assembly	Frequency (square–wave voltage)	0 %–100 %	at 0 % approx. 0 V = at 100 % approx. 12 V =
22	A	Auxiliary water pump relay activation	Auxiliary water pump relay	approx. 0,3 V approx. 12 V	ON OFF	

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Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
23	A	Right water valve activation	Water valve assembly	Frequency (square–wave voltage)	0 %–100 %	at 0 % approx. 0 V = at 100 % approx. 12 V =
24		Not used				
25	E	Plus terminal 30	Front power distribution box	approx. 12 V		
26	E	Plus terminal 30	Front power distribution box	approx. 12 V		

X611

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	A	Left footwell flap motor activation	Left footwell flap motor	Frequency (square–wave voltage)	0 %–100 %	approx. 84 Ω/winding with flap motor disconnected
2	A	Left mixing flap motor activation	Left mixing flap motor	Frequency (square–wave voltage)	0 %–100 %	approx. 84 Ω/winding with flap motor disconnected
3	A	Left mixing flap motor activation	Left mixing flap motor	Frequency (square–wave voltage)	0 %–100 %	approx. 84 Ω/winding with flap motor disconnected
4	A	Left mixing flap motor activation	Left mixing flap motor	Frequency (square–wave voltage)	0 %–100 %	approx. 84 Ω/winding with flap motor disconnected
5	A	Left mixing flap motor activation	Left mixing flap motor	Frequency (square–wave voltage)	0 %–100 %	approx. 84 Ω/winding with flap motor disconnected

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Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
6	A	Fresh air flap motor activation	Fresh air flap motor	Frequency (square–wave voltage)	0 %–100 %	approx. 84 Ω/winding with flap motor disconnected
7	A	Fresh air flap motor activation	Fresh air flap motor	Frequency (square–wave voltage)	0 %–100 %	approx. 84 Ω/winding with flap motor disconnected
8	A	Fresh air flap motor activation	Fresh air flap motor	Frequency (square–wave voltage)	0 %–100 %	approx. 84 Ω/winding with flap motor disconnected
9	A	Fresh air flap motor activation	Fresh air flap motor	Frequency (square–wave voltage)	0 %–100 %	approx. 84 Ω/winding with flap motor disconnected
10		Not used				
11		Not used				
12		Not used				
13		Not used				
14	A	Left footwell flap motor activation	Left footwell flap motor	Frequency (square–wave voltage)	0 %–100 %	approx. 84 Ω/winding with flap motor disconnected
15	A	Left footwell flap motor activation	Left footwell flap motor	Frequency (square–wave voltage)	0 %–100 %	approx. 84 Ω/winding with flap motor disconnected
16	A	Left footwell flap motor activation	Left footwell flap motor	Frequency (square–wave voltage)	0 %–100 %	approx. 84 Ω/winding with flap motor disconnected

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AUTOMATIC HEATING/AC CONTROL (IHKA)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
17	A	Defroster flap motor activation	Defroster flap motor	Frequency (square-wave voltage)	0 %–100 %	approx. 84 Ω/winding with flap motor disconnected
18	A	Defroster flap motor activation	Defroster flap motor	Frequency (square-wave voltage)	0 %–100 %	approx. 84 Ω/winding with flap motor disconnected
19	A	Defroster flap motor activation	Defroster flap motor	Frequency (square-wave voltage)	0 %–100 %	approx. 84 Ω/winding with flap motor disconnected
20	A	Defroster flap motor activation	Defroster flap motor	Frequency (square-wave voltage)	0 %–100 %	approx. 84 Ω/winding with flap motor disconnected
21	A	Left ventilation flap motor activation	Left ventilation flap motor	Frequency (square-wave voltage)	0 %–100 %	approx. 84 Ω/winding with flap motor disconnected
22	A	Left ventilation flap motor activation	Left ventilation flap motor	Frequency (square-wave voltage)	0 %–100 %	approx. 84 Ω/winding with flap motor disconnected
23	A	Left ventilation flap motor activation	Left ventilation flap motor	Frequency (square-wave voltage)	0 %–100 %	approx. 84 Ω/winding with flap motor disconnected
24	A	Left ventilation flap motor activation	Left ventilation flap motor	Frequency (square-wave voltage)	0 %–100 %	approx. 84 Ω/winding with flap motor disconnected
25		Not used				
26		Not used				

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X612

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	E	Function light, night circuit	Light switch	approx. 12 V		With light ON
2	A	Switch for max left, bottom left	Control unit connector X614 Pin 6	Frequency (square–wave voltage)	ON/OFF	
3	E	Switch independent heating, right–hand drive coding diode	Control unit connector X614 Pin 11	Frequency (square–wave voltage)	ON/OFF right–hand drive/left–hand drive	
4	A	Switch for defrost, independent heating, independent ventilation	Control unit connector X614 Pin 7	Frquency (square–wave voltage)	ON/OFF	
5	E	Switch for circulating air, max left, max right, independent ventilation	Control unit connector X614 Pin 12	Frequency (square–wave voltage)	ON/OFF	
6	A	Switch for circulating air, air conditioning	Control unit connector X614 Pin 5	Frequency (square–wave voltage)	ON/OFF	
7	A	Function light, night circuit, rear window defogger switch	Rear window defogger switch	approx. 12 V approx. 2,7 V approx. 2,6 V		Rear window defogger OFF light OFF Rear window defogger ON light OFF Rear window defogger ON light ON
8	A	Switch for max right, bottom right, right–hand drive coding diode	Control unit connector X614 Pin 8	Frequency (square–wave voltage)	ON/OFF right–hand drive/left–hand drive	

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AUTOMATIC HEATING/AC CONTROL (IHKA)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
9	E	AUC switch	AUC control unit Pin 6	Frequency (square-wave voltage)		
10	E	AUC switch	AUC control unit Pin 5	Frequency (square-wave voltage)		
11	E	Terminal 30 for water valves	Fuse	approx. 12 V		
12	A	Voltage for water valves	Left and right water valves	approx. 12 V		
13	A/E	Interior temperature sensor	Control unit connector X613 Pin 21	approx. 5 V	-250 C to +1000 C	With sensor disconnected
14	E	Plus for control wheels	Control unit connector X613 Pin 20	approx. 5 V		
15	E	Ground for interior temperature sensor and control wheels	Control unit connector X613 Pin 16	approx. 0 V		
16	E	Function light activation	Control unit connector X610 Pin 18	approx. 12 V approx. 0,7 V		Air flow control wheel OFF Air flow control wheel ON
17	E	Switch, air flow control wheel, max	Ignition switch terminal 15	approx. 12 V		
18	E	Terminal 15 for electronics	Fuse	approx. 12 V		
19	E	IHKA switch lighting	Dimmer for instrument lighting	approx. 2,5 - 12 V		With light ON
20	M	Ground for function and operating unit lighting	Ground point	0 V		
21	A	Nominal temperature value, right	Control unit connector X613 Pin 8	approx. 0,7 V - 4,4 V	140 C - 340 C	
22	A	Nominal temperature value, left	Control unit connector X613 Pin 4	approx. 0,7 V - 4,4 V	140 C - 340 C	

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Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
23	A	Nominal air flow value	Control unit connector X613 Pin 5	approx. 0,7 V – 4,4 V	OFF – 100 %	
24	E	Switch for air conditioning, bottom left, defrost, bottom right	Control unit connector X614 Pin 13	Frequency (square–wave voltage)	ON/OFF	
25	A	Switch, air flow control wheel, max	Final stage unit X671 Pin 3	approx. 12 V		
26	E	Interior sensor blower (ground)	Control unit connector X613 Pin 6	approx. 0 V		

X613

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	M	Ground	Ground point	0 V		
2	M	Ground	Ground point	0 V		
3		Not used				
4	E	Nominal temperature value, left (potentiometer)	IHKA switch	approx. 0,7 V – 4,4 V	140 C – 340 C	
5	E	Nominal air flow value (potentiometer)	IHKA switch	approx. 0,7 V – 4,4 V	OFF – 100 %	
6	M	Interior sensor blower (ground)	IHKA switch	approx. 0 V		
7	A/E	Outside temperature	Outside temperature sensor	approx. 0,5 V – 4,5 V	–500 C – +600 C	approx. 5 V with tempera–ture sensor disconnected
8	E	Nominal temperature value, right (potentiometer)	IHKA switch	approx. 0,7 V – 4,4 V	140 C – 340 C	

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Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
9	A/E	Evaporator temperature	Evaporator temp. sensor	approx. 0,5 V – 4,5 V	–400 C – +900 C	approx. 5 V with tempera–ture sensor disconnected
10	A	Plus for stepping motors	Plus connector for stepping	approx. 12 V		
11	A	Plus for stepping motors	Plus connector for stepping	approx. 12 V		
12	E	Ignition terminal 15	Blower relay	approx. 12 V		
13	E	Ignition terminal 15	Blower relay	approx. 12 V		
14	M	Ground	Ground point	0 V		
15	M	Ground	Ground point	0 V		
16	A	Ground for sensor and control wheels	Sensor and control wheels	approx. 0 V		
17	E	Nominal mixing air value	Temperature distribution potentiometer	approx. 0,7 V – 4,4 V	0 %–100 %	
18	A/E	Left heater temperature	Left heat exchanger temperature sensor	approx. 1,5 V – 3,5 V	–300 C – +1100 C	approx. 5 V with tempera–ture sensor disconnected
19	E	Starter terminal 50	Solenoid switch	approx. 12 V		
20	A	Plus for control wheels	Control wheels	approx. 5 V		
21	A/E	Inside air temperature	Inside air temperature sensor	approx. 0,5 V – 4,5 V	–250 C – +1000 C	approx. 5 V with tempera–ture sensor disconnected
22	A/E	Right heater temperature	Right heat exchanger temperature sensor	approx. 1,5 V – 3,5 V	–300 C – +1100 C	approx. 5 V with tempera–ture sensor disconnected
23	A	Plus for stepping motors	Plus connector for stepping motors	approx. 12 V		
24	A	Plus for stepping motors	Plus connector for stepping motors	approx. 12 V		

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Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
25	E	Ignition terminal 15	Blower relay	approx. 12 V		
26	E	Ignition terminal 15	Blower relay	approx. 12 V		

X614

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	A	Right footwell flap motor activation	Right footwell flap motor	Frequency (square–wave voltage)	0 %–100 %	approx. 84 Ω/winding with flap motor disconnected
2	A	Right footwell flap motor activation	Right footwell flap motor	Frequency (square–wave voltage)	0 %–100 %	approx. 84 Ω/winding with flap motor disconnected
3	A	Right footwell flap motor activation	Right footwell flap motor	Frequency (square–wave voltage)	0 %–100 %	approx. 84 Ω/winding with flap motor disconnected
4	A	Right footwell flap motor activation	Right footwell flap motor	Frequency (square–wave voltage)	0 %–100 %	approx. 84 Ω/winding with flap motor disconnected
5	E	Switch for circulating air and air conditioning	IHKA switch	Frequency (square–wave voltage)	ON/OFF	
6	E	Switch for rear window, max left, bottom left	IHKA switch/rear window switch	Frequency (square–wave voltage)	ON/OFF	
7	E	Switch for defrost, independent heating, independent ventilation	IHKA switch, relay box independent heating/independent ventilation	Frequency (square–wave voltage)	ON/OFF	

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AUTOMATIC HEATING/AC CONTROL (IHKA)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
8	E	Switch for max right, bottom right, right–hand drive coding diode	IHKA switch	Frequency (square–wave voltage)	ON/OFF right–hand drive/left–hand drive	
9	E	Vehicle speed signal	Electronic body module	Frequency (square–wave voltage)	0 – 250 km/h	
10	E	Diagnosis	Diagnostic connector RxD			
11	A	Switch for rear window, independent heating, right–hand drive coding diode	IHKA switch/rear window defogger switch	Frequency (square–wave voltage)	ON/OFF right–hand drive/left–hand drive	
12	A	Switch for circulating air, max left, max right, independent ventilation	IHKA switch	Frequency (square–wave voltage)	ON/OFF	
13	A	Switch for air conditioning, bottom left, defrost, bottom right	IHKA switch	Frequency (square–wave voltage)	ON/OFF	
14	A	Right ventilation flap motor activation	Right ventilation flap motor	Frequency (square–wave voltage)	0 %–100 %	approx. 84 Ω/winding with flap motor disconnected
15	A	Right ventilation flap motor activation	Right ventilation flap motor	Frequency (square–wave voltage)	0 %–100 %	approx. 84 Ω/winding with flap motor disconnected
16	A	Right ventilation flap motor activation	Right ventilation flap motor	Frequency (square–wave voltage)	0 %–100 %	approx. 84 Ω/winding with flap motor disconnected
17	A	Right ventilation flap motor activation	Right ventilation flap motor	Frequency (square–wave voltage)	0 %–100 %	approx. 84 Ω/winding with flap motor disconnected

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Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
18	A	Dash vent mixing flap motor activation	Dash vent mixing flap motor	Frequency (square–wave voltage)	0 %–100 %	approx. 84 Ω/winding with flap motor disconnected
19	A	Dash vent mixing flap motor activation	Dash vent mixing flap motor	Frequency (square–wave voltage)	0 %–100 %	approx. 84 Ω/winding with flap motor disconnected
20	A	Dash vent mixing flap motor activation	Dash vent mixing flap motor	Frequency (square–wave voltage)	0 %–100 %	approx. 84 Ω/winding with flap motor disconnected
21	A	Dash vent mixing flap motor activation	Dash vent mixing flap motor	Frequency (square–wave voltage)	0 %–100 %	approx. 84 Ω/winding with flap motor disconnected
22		Not used				
23		Not used				
24		Not used				
25		Not used				
26		Not used				

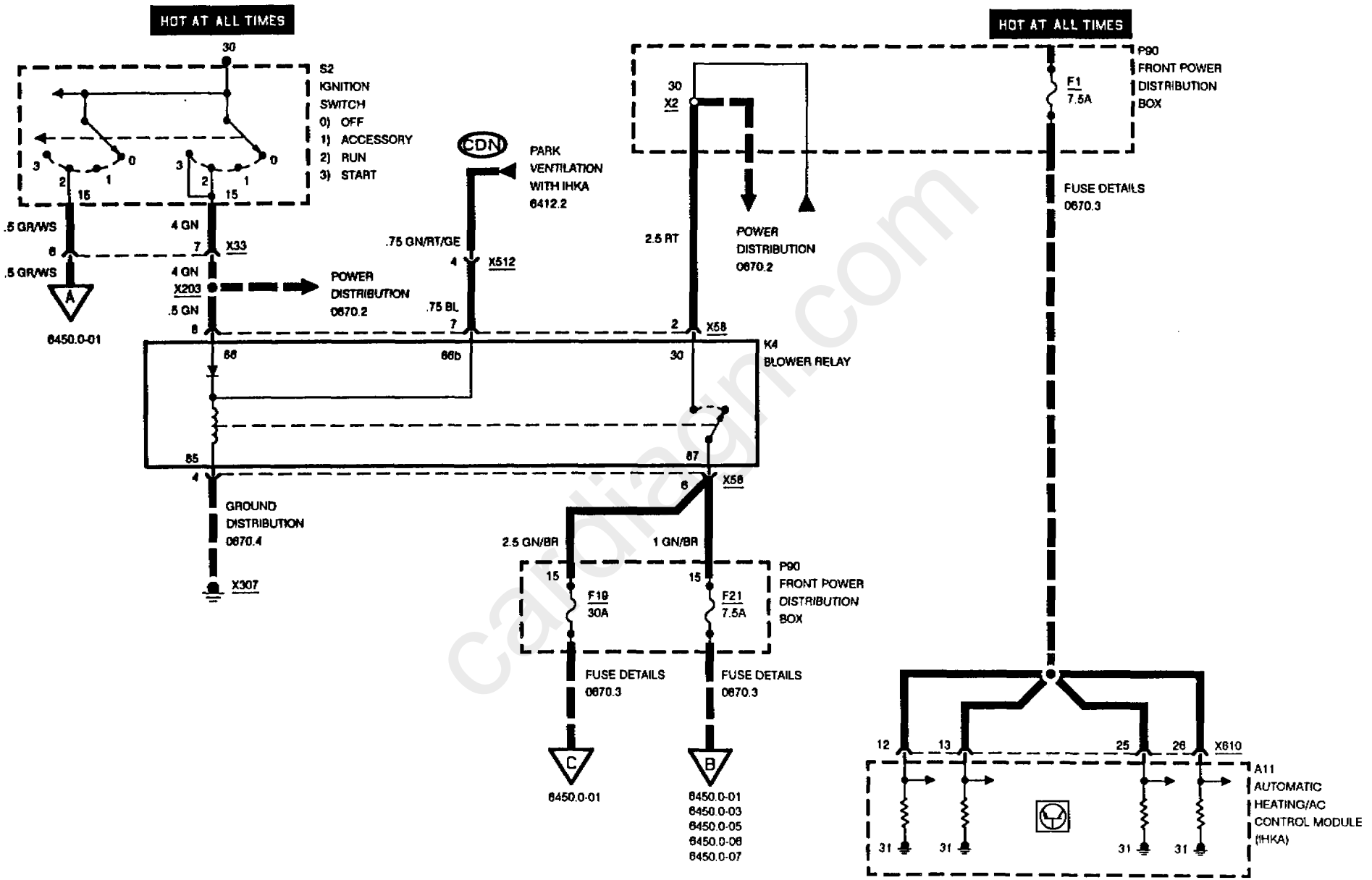
E = Input, A = Output, M = Ground

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AUTOMATIC HEATING/AC CONTROL (IHKA)

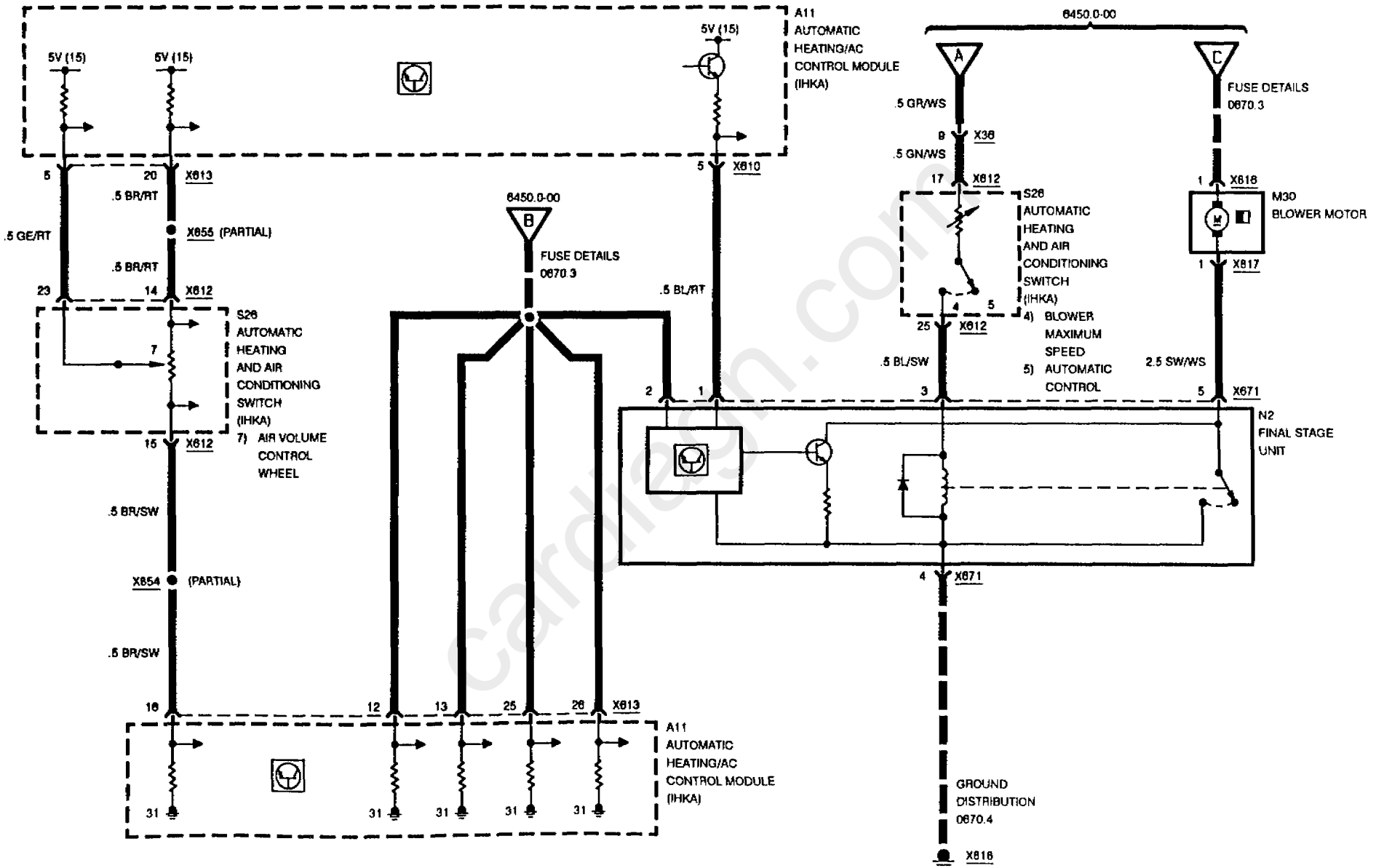
POWER



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AUTOMATIC HEATING/AC CONTROL (IHKA)

BLOWER CONTROLS

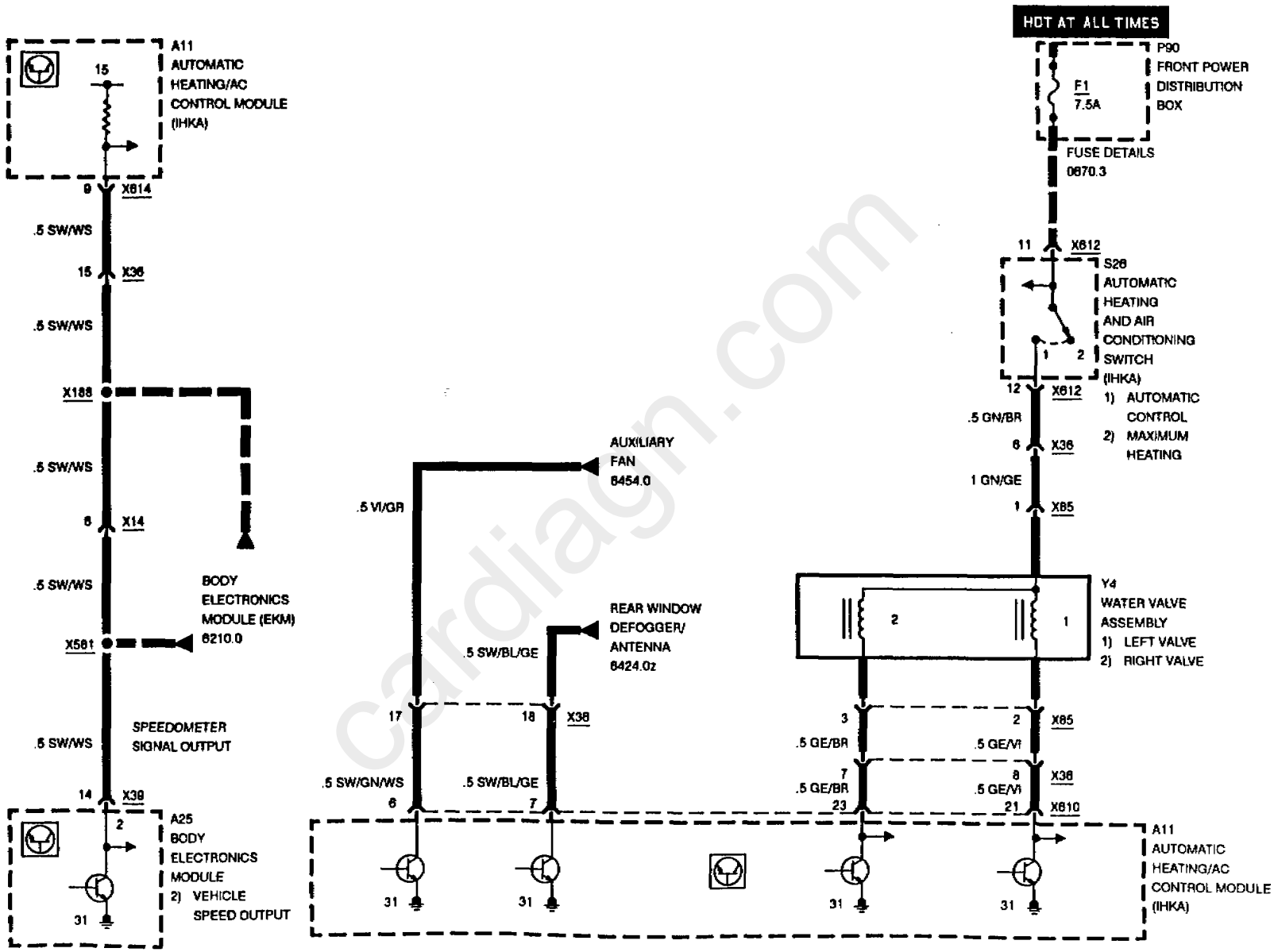


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BLOWER CONTROLS

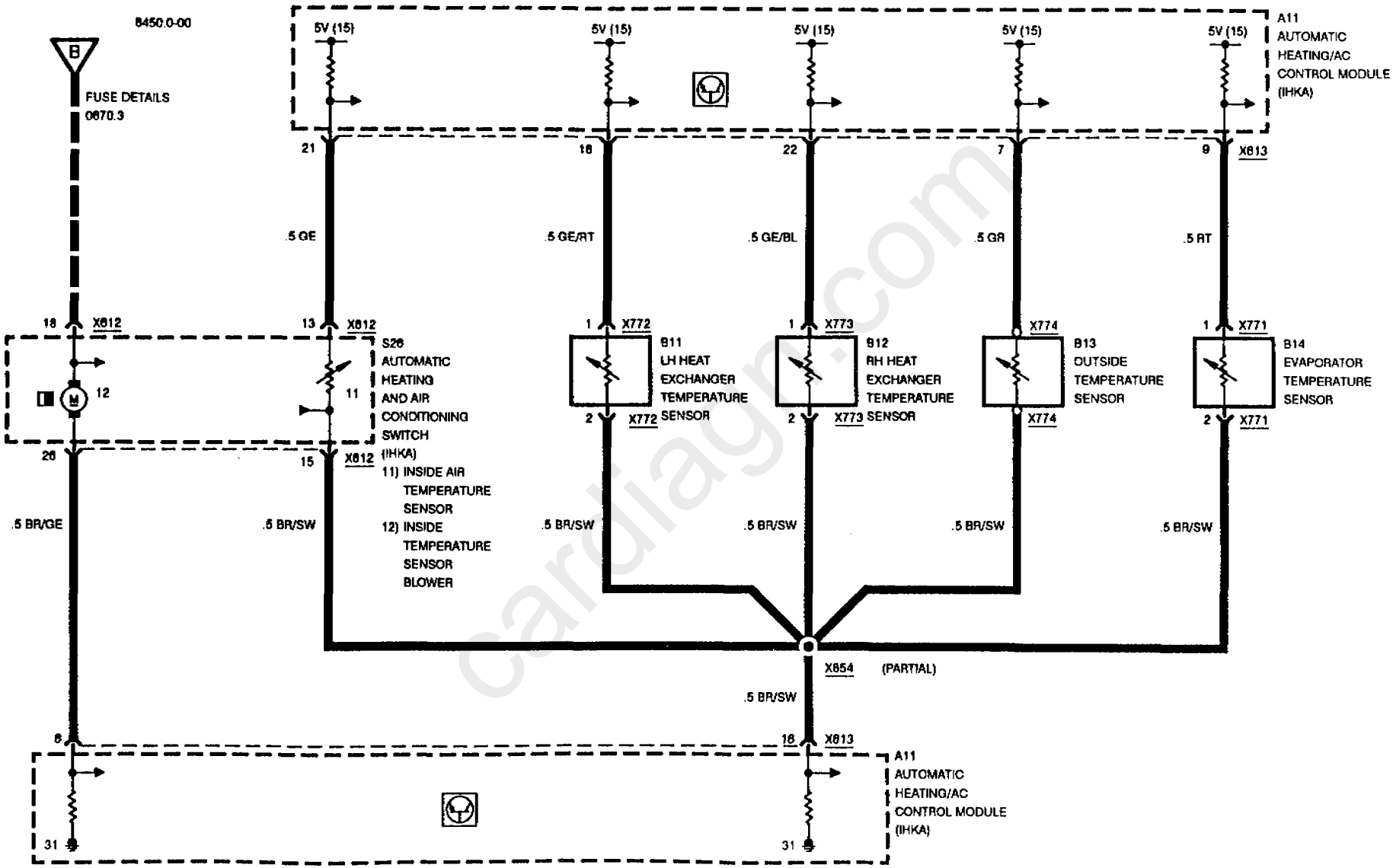
WATER VALVES



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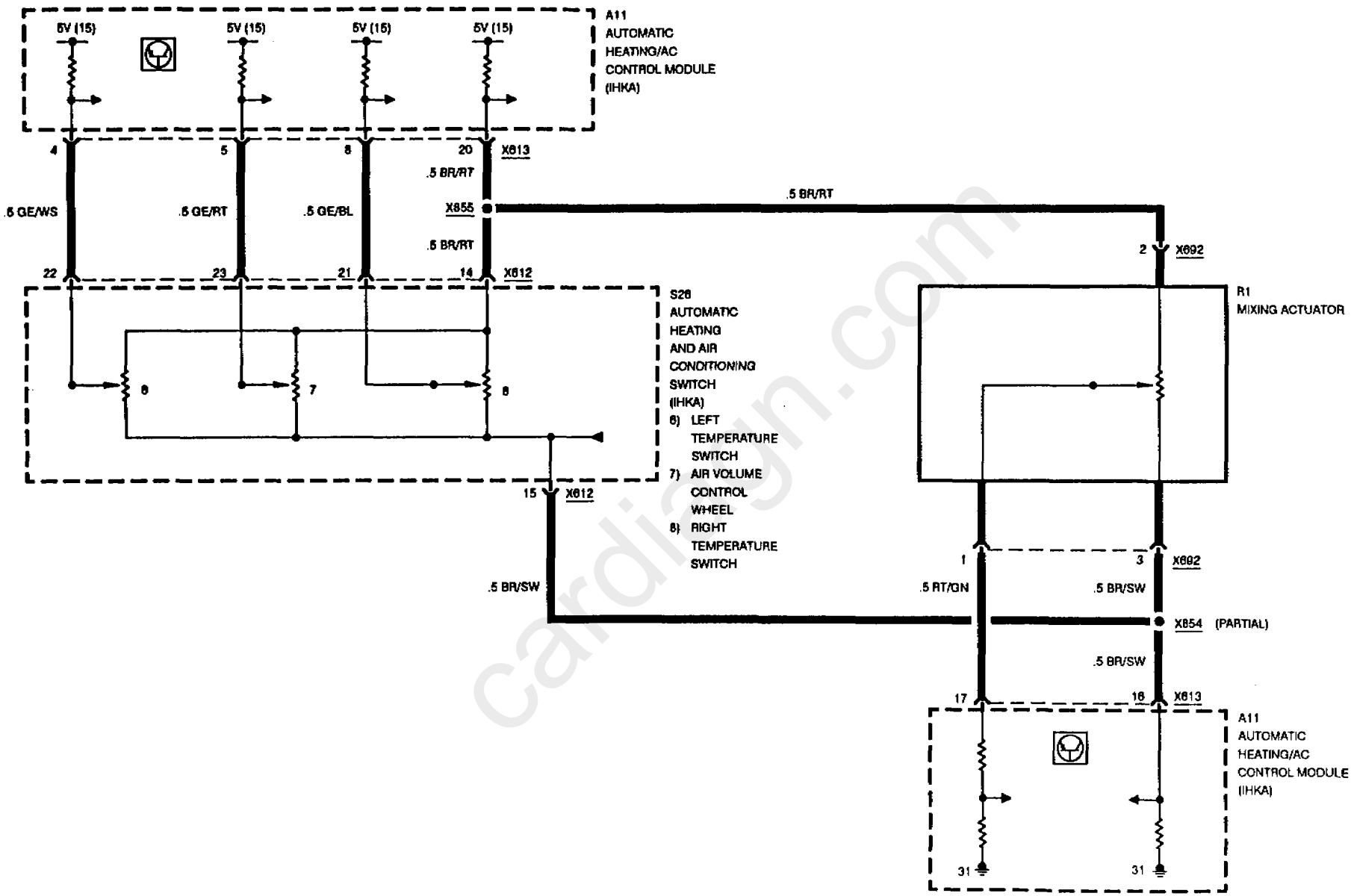
TEMPERATURE CONTROLS



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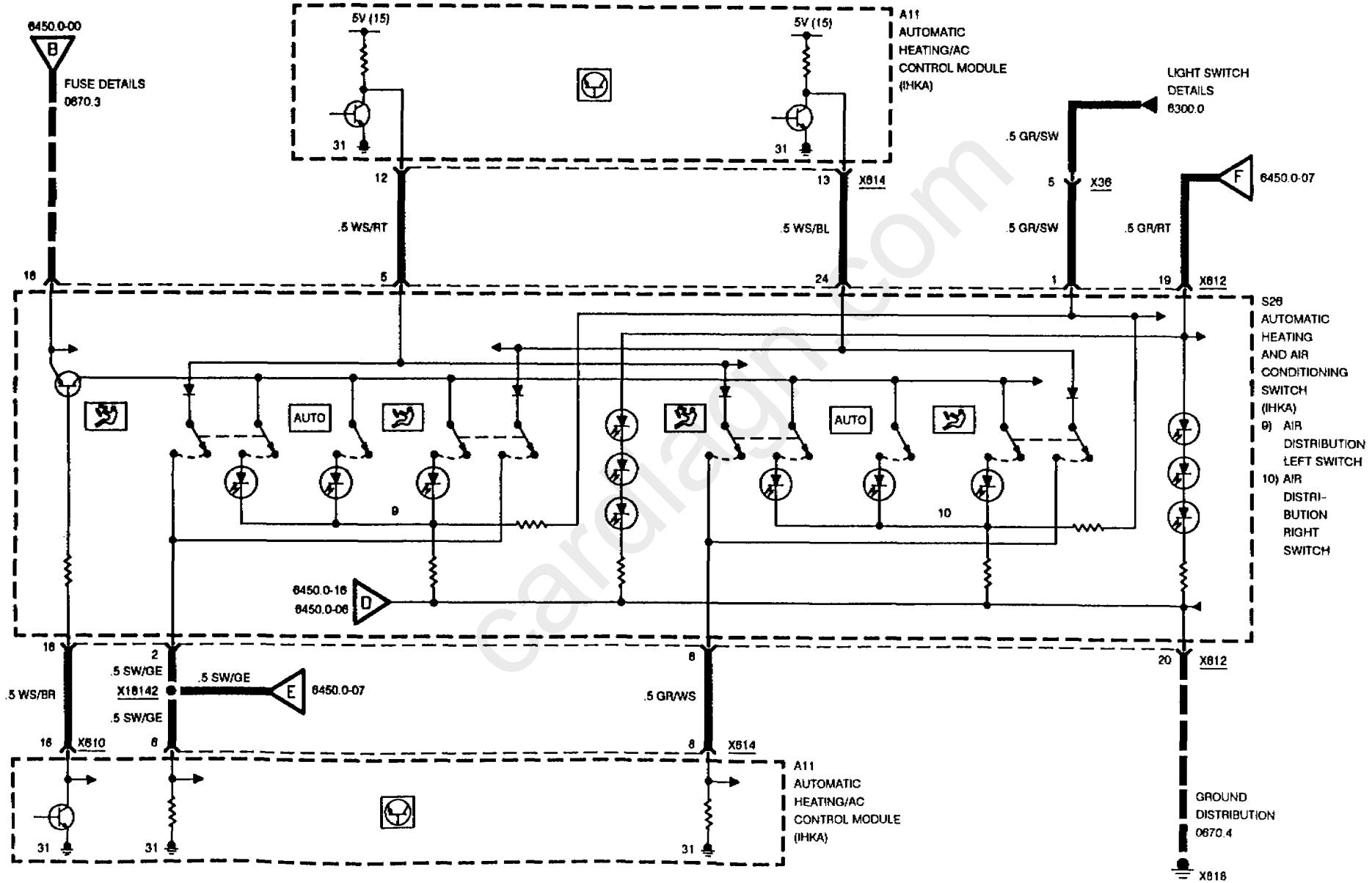
TEMPERATURE CONTROLS



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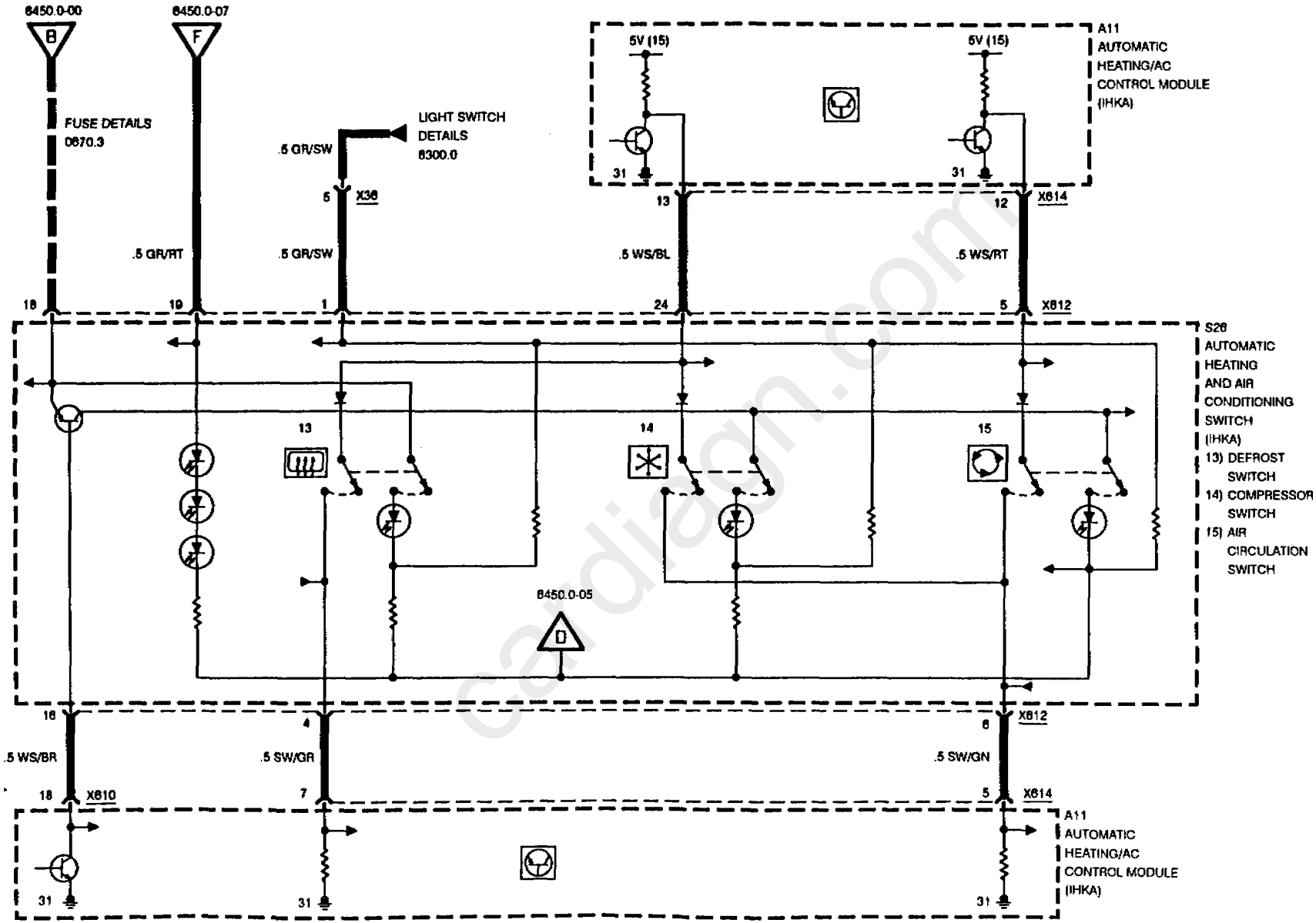
AUTOMATIC HEATING/AC CONTROL (IHKA)

AIR DELIVERY



AUTOMATIC HEATING/AC CONTROL (IHKA)

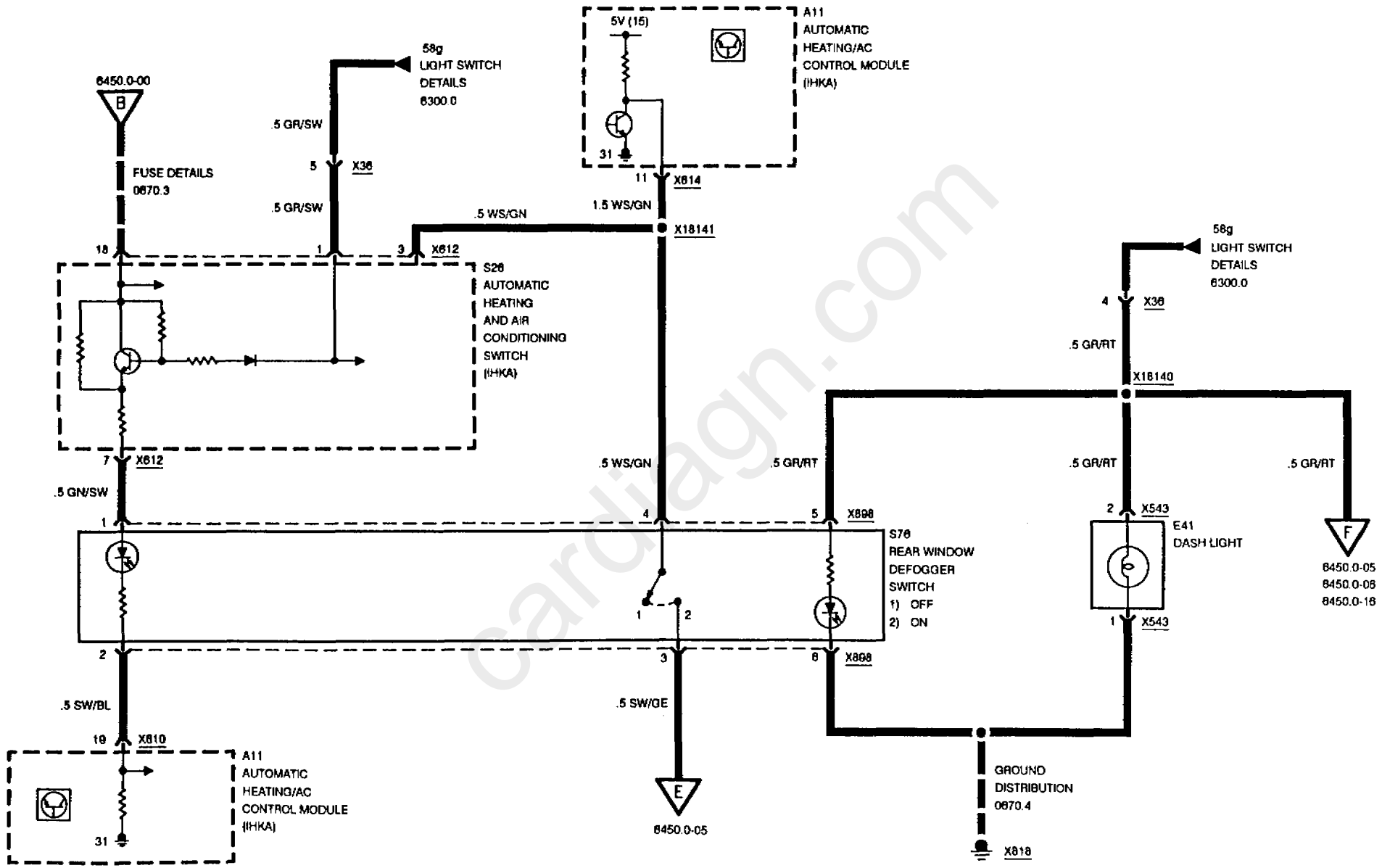
AIR DELIVERY



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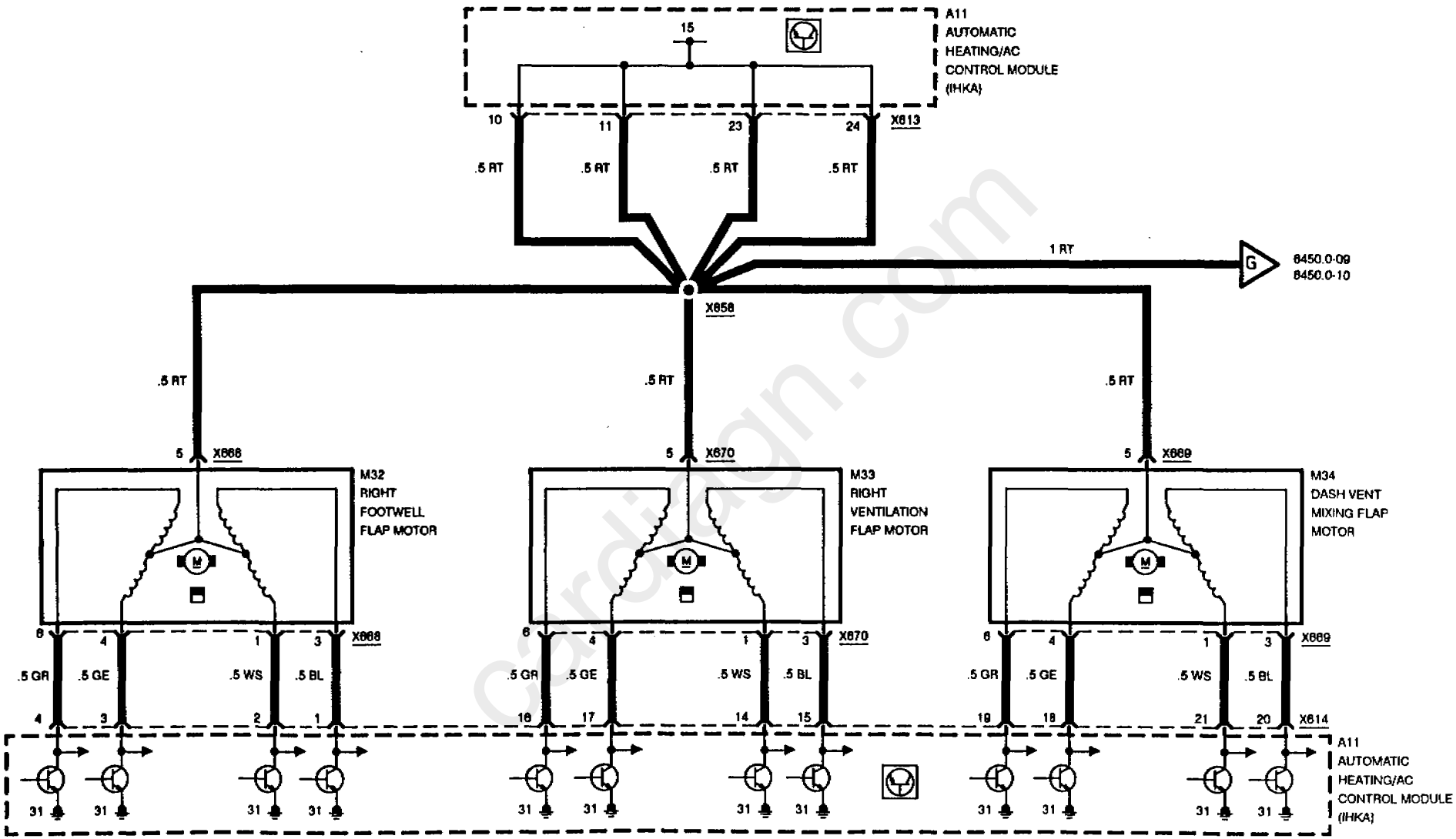
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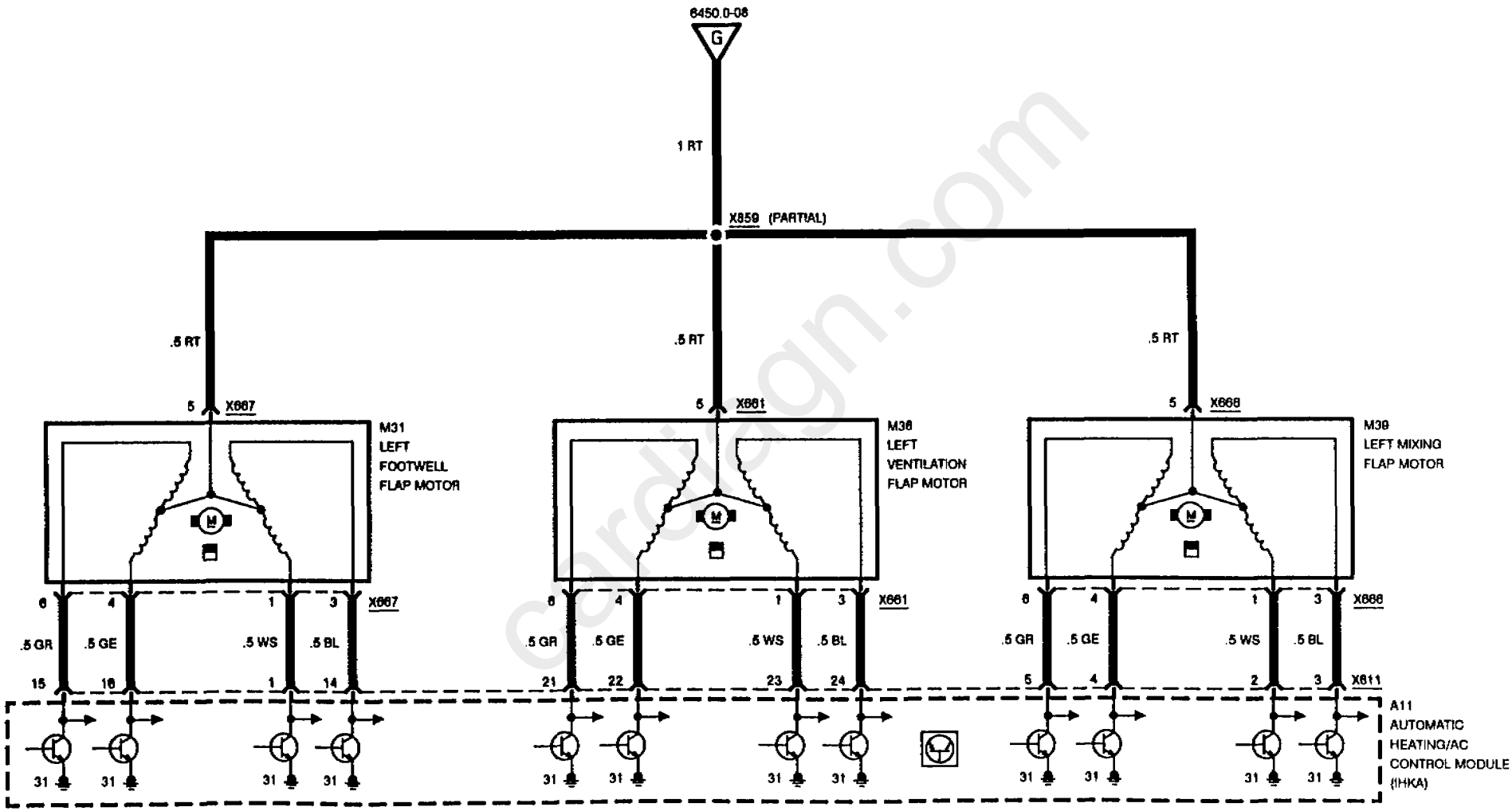
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AUTOMATIC HEATING/AC CONTROL (IHKA)

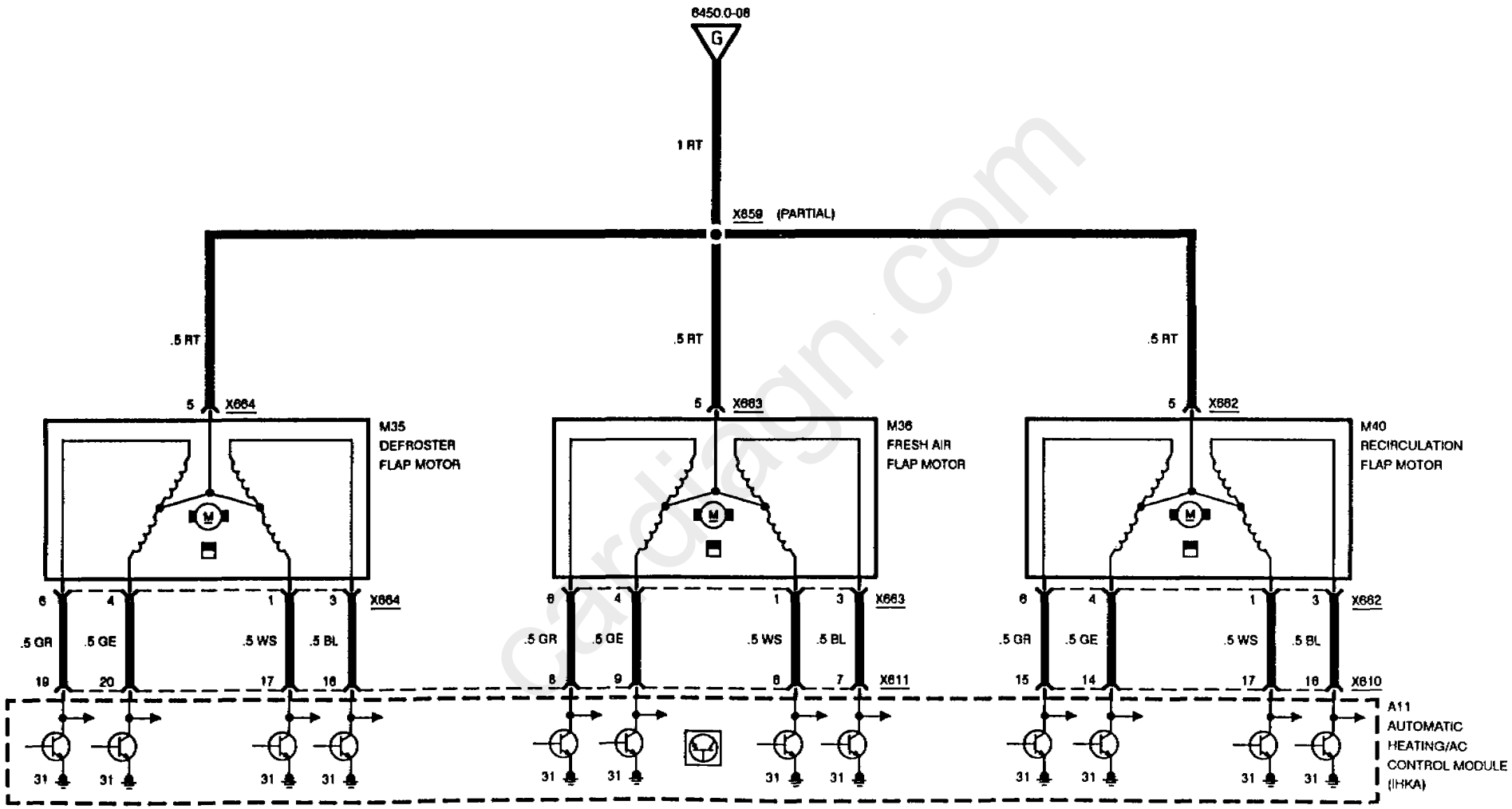
AIR DELIVERY



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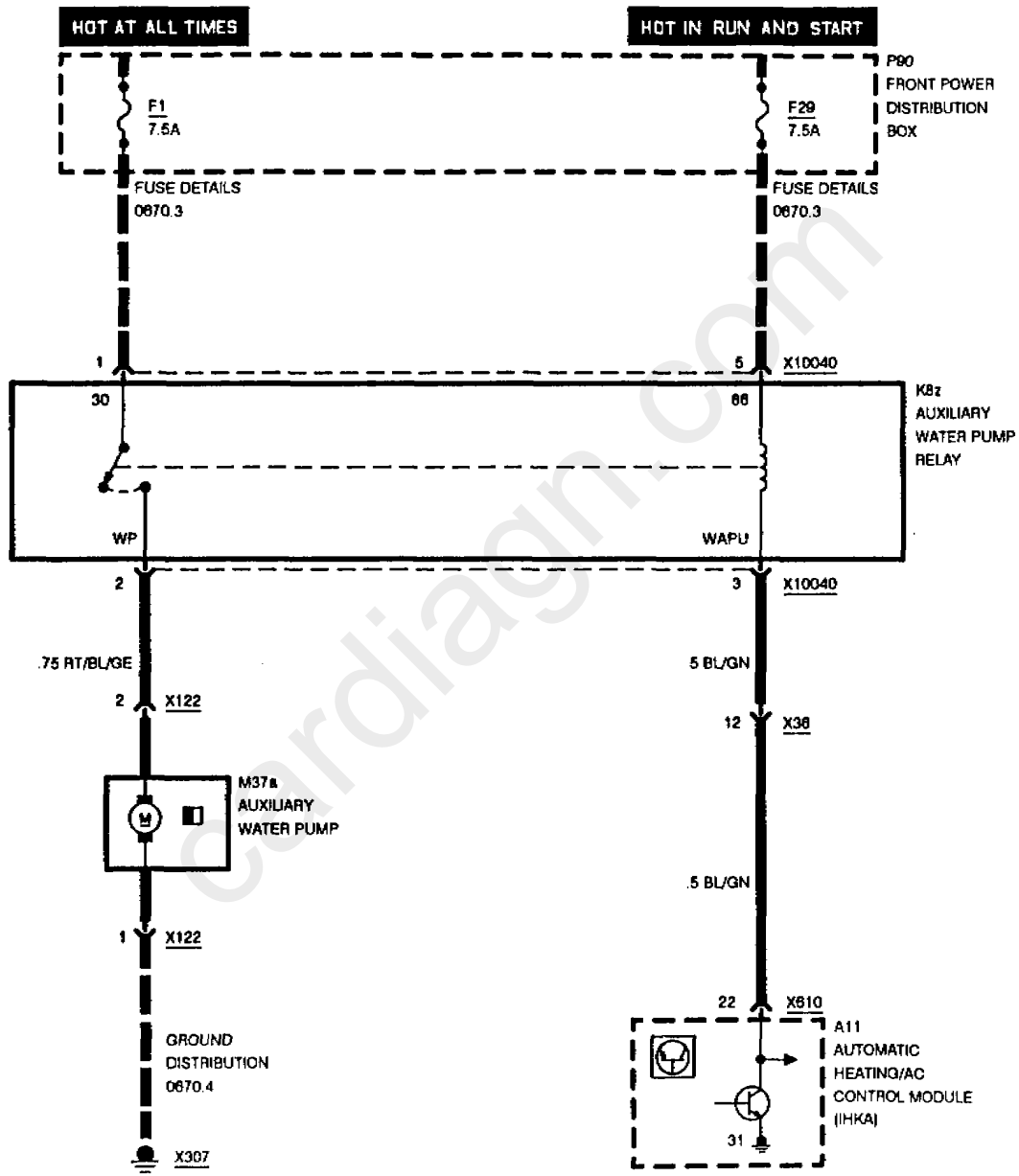
AUTOMATIC HEATING/AC CONTROL (IHKA)

AIR DELIVERY



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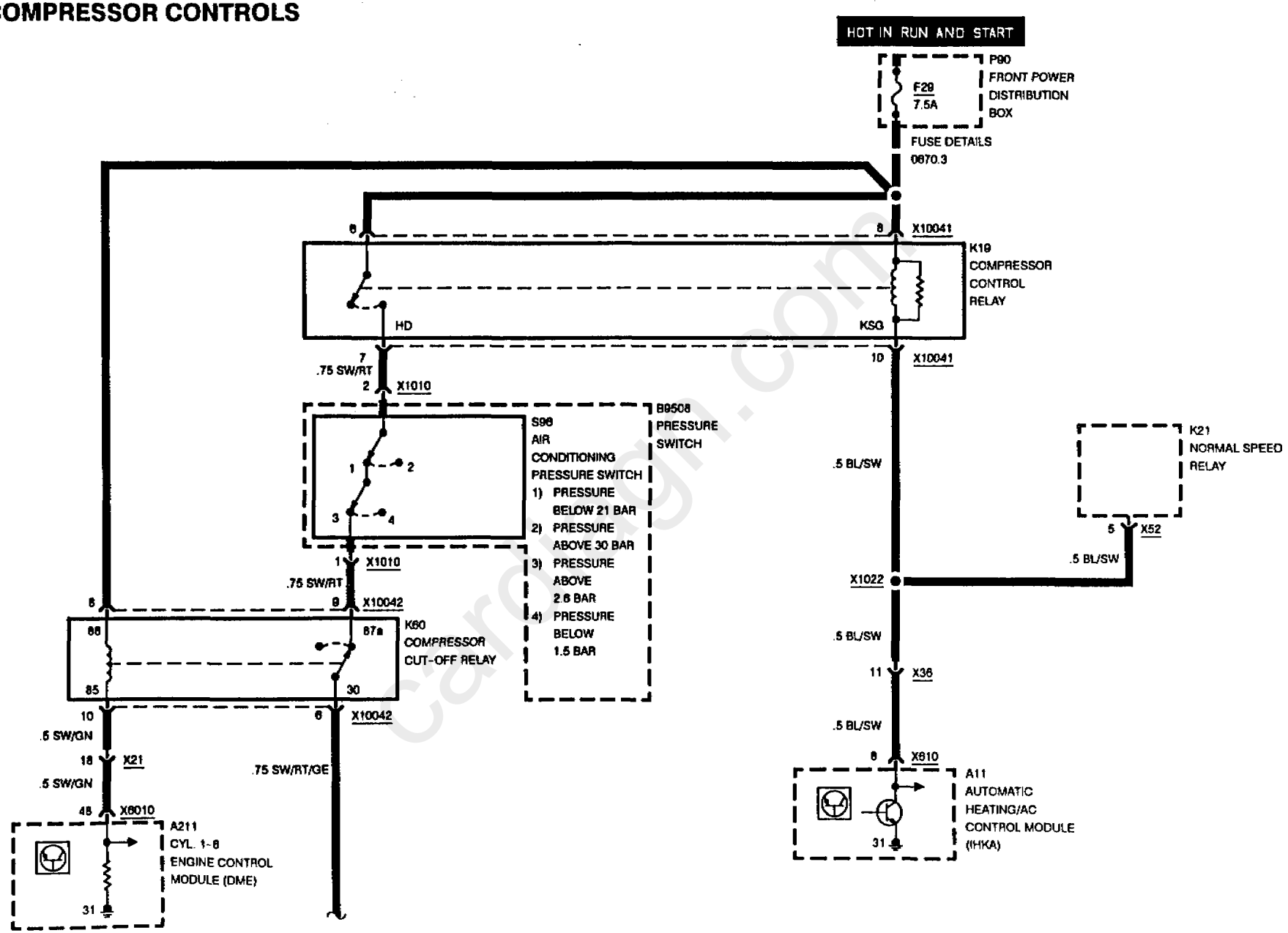
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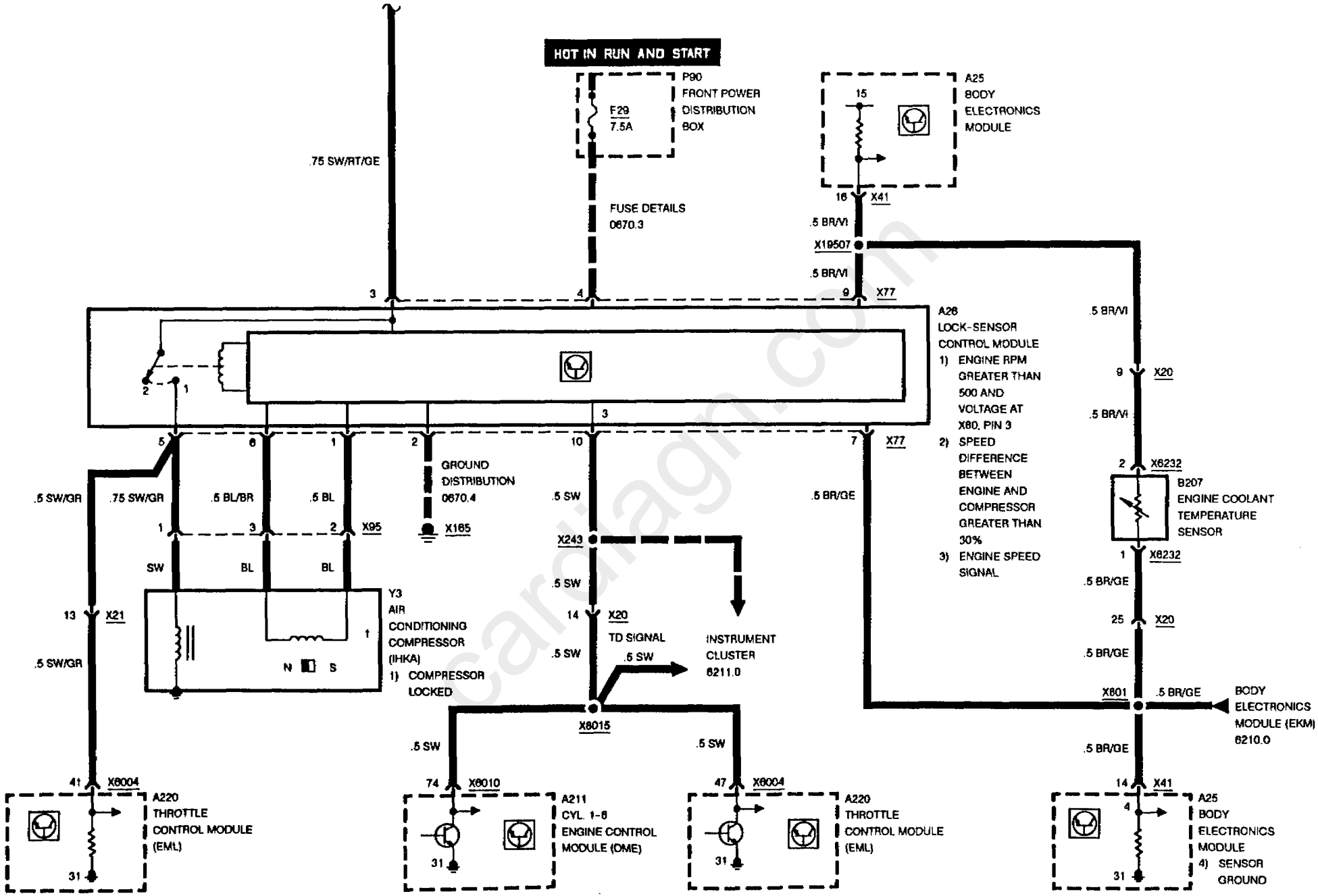
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AUTOMATIC HEATING/AC CONTROL (IHKA)

COMPRESSOR CONTROLS



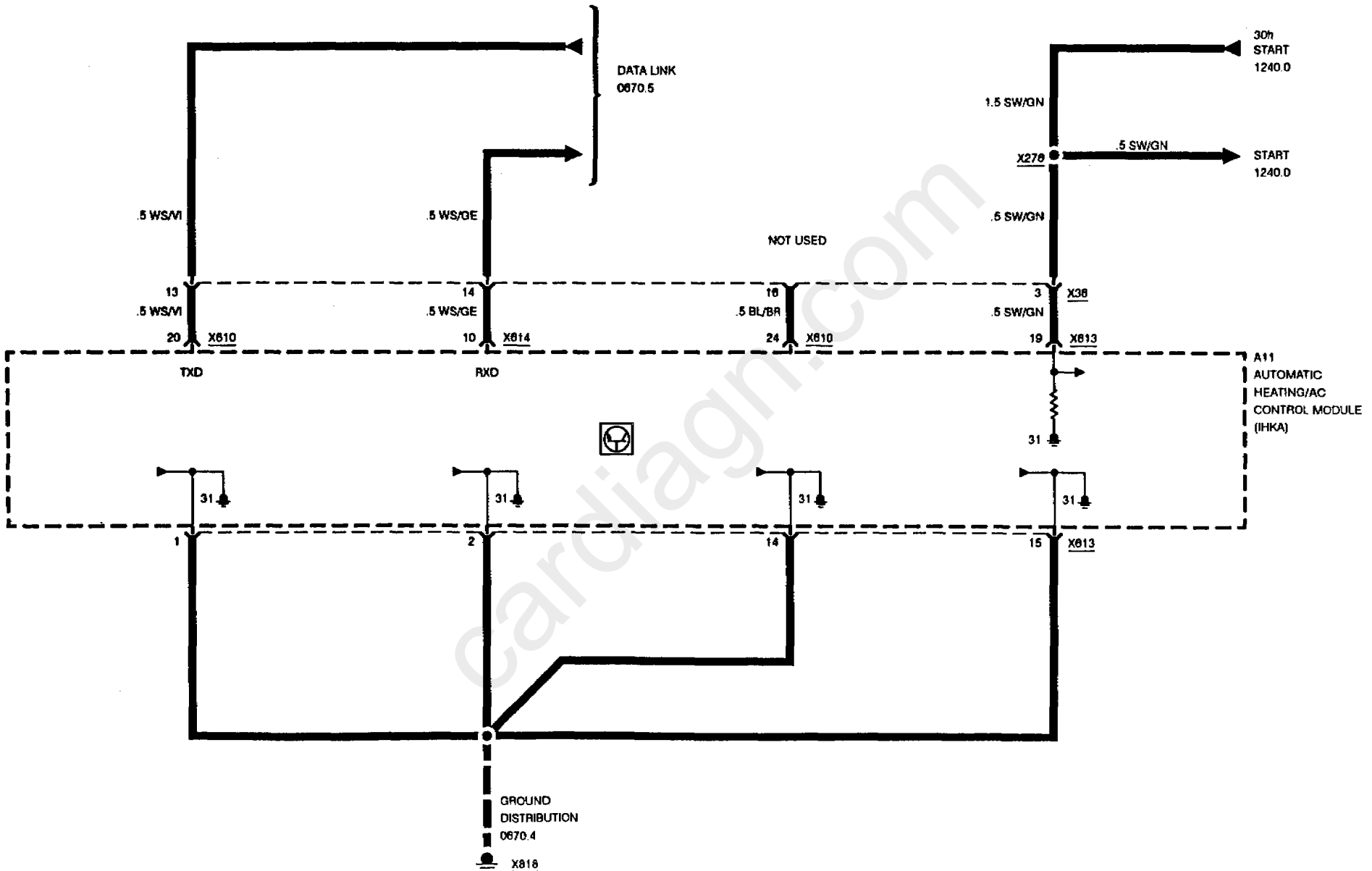
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AUTOMATIC HEATING/AC CONTROL (IHKA)

DATA LINK AND STARTER INPUT

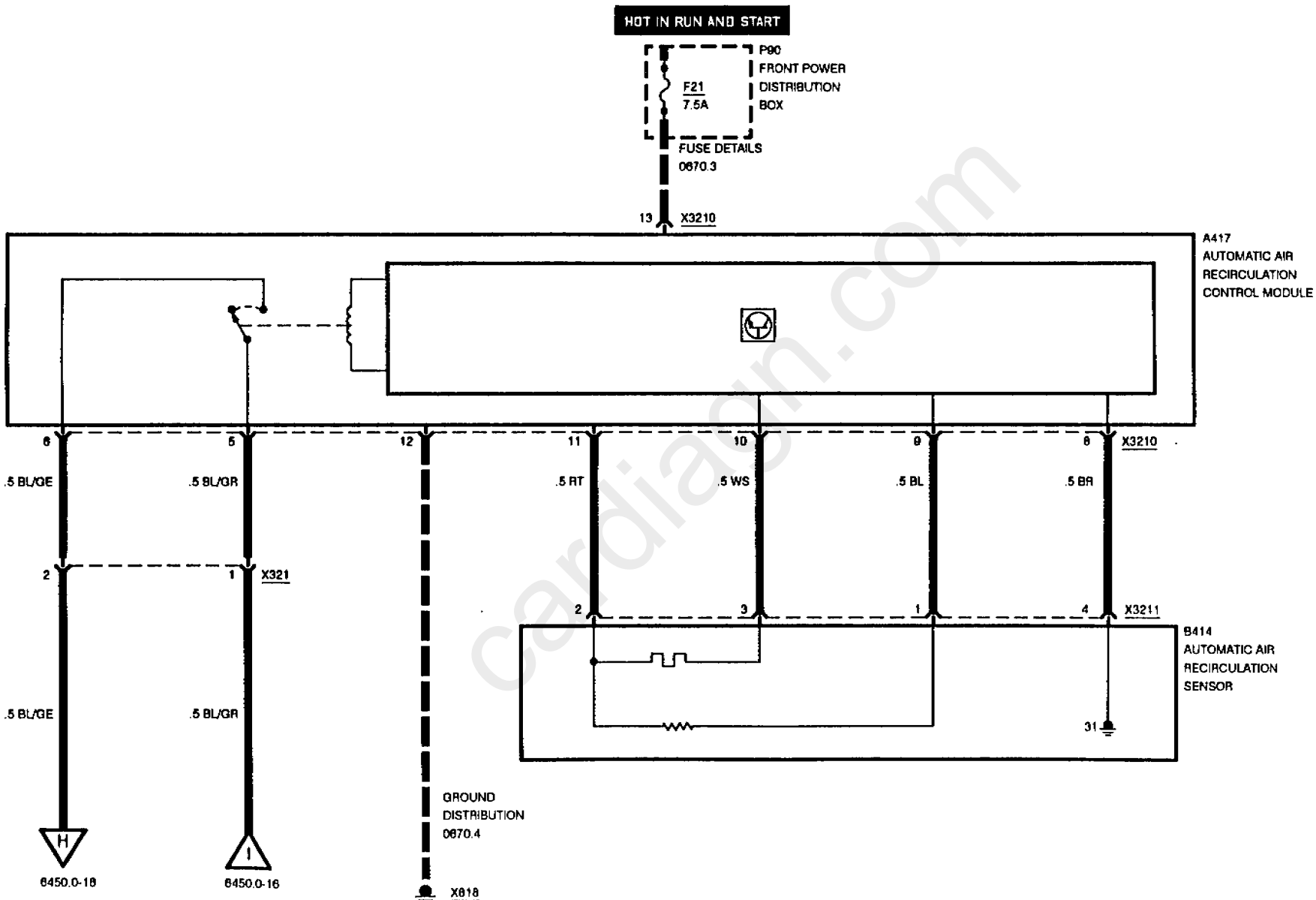


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AUTOMATIC HEATING/AC CONTROL (IHKA)

CDN

AUC

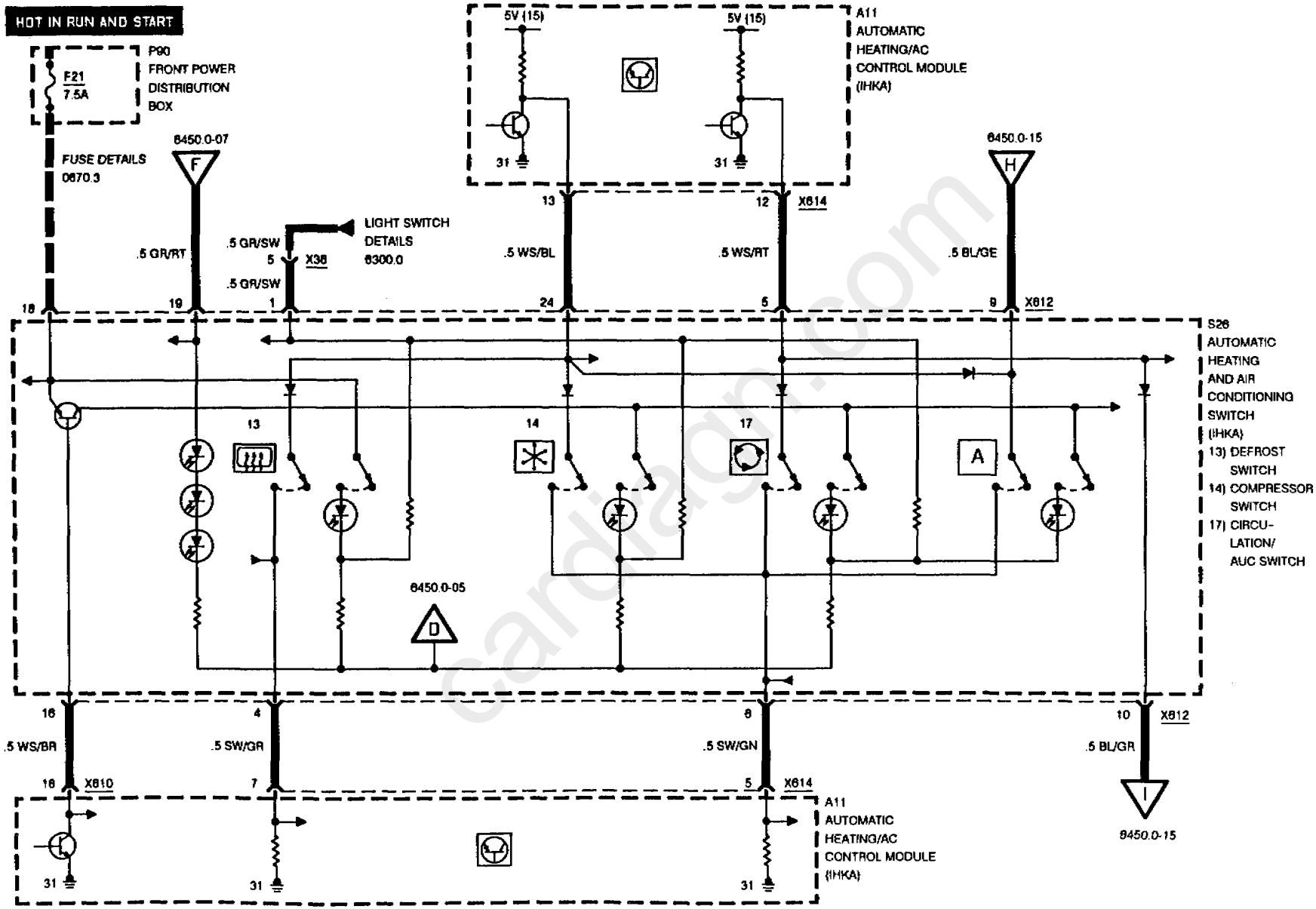


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AUTOMATIC HEATING/AC CONTROL (IHKA)

CDN

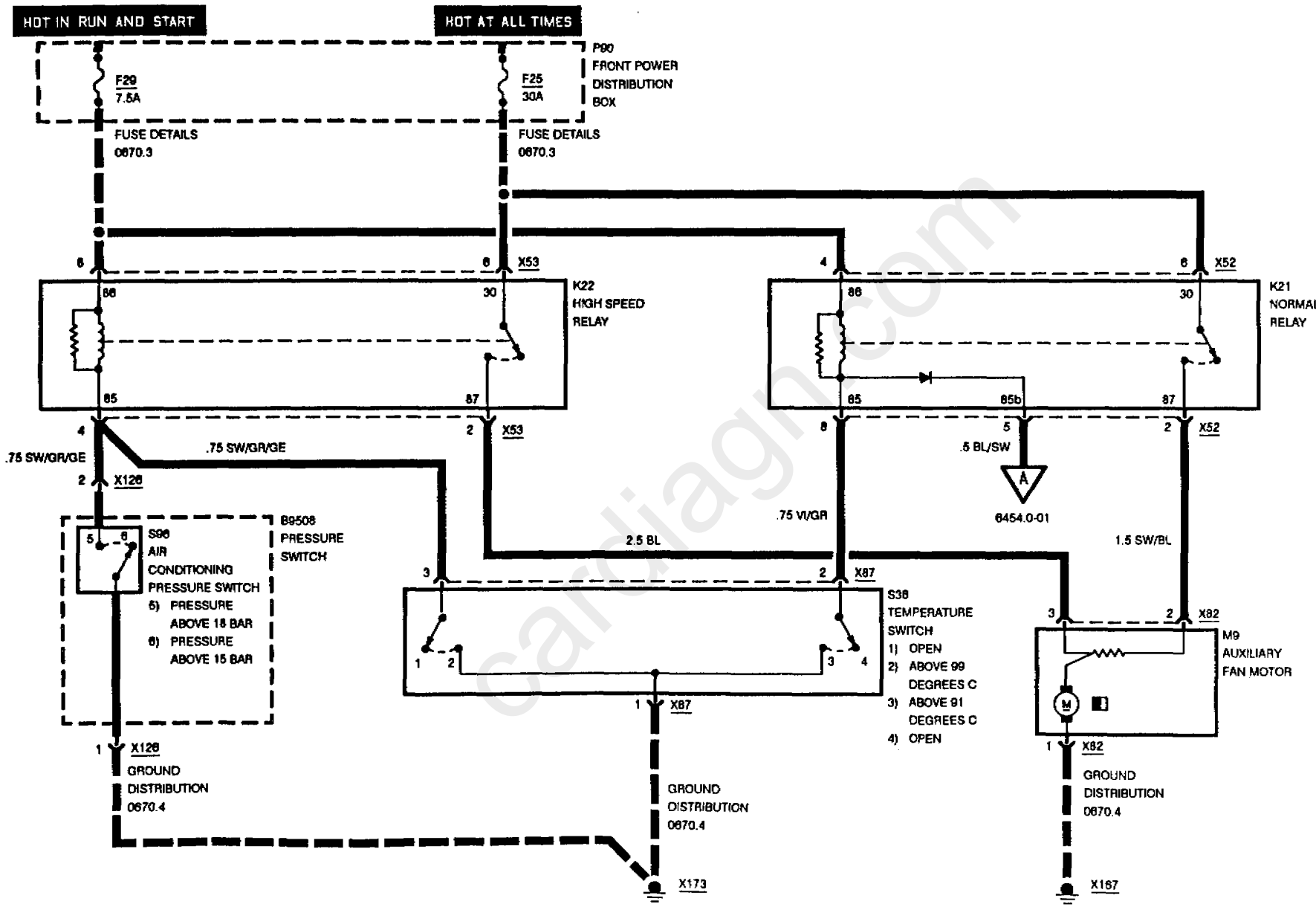
AUC



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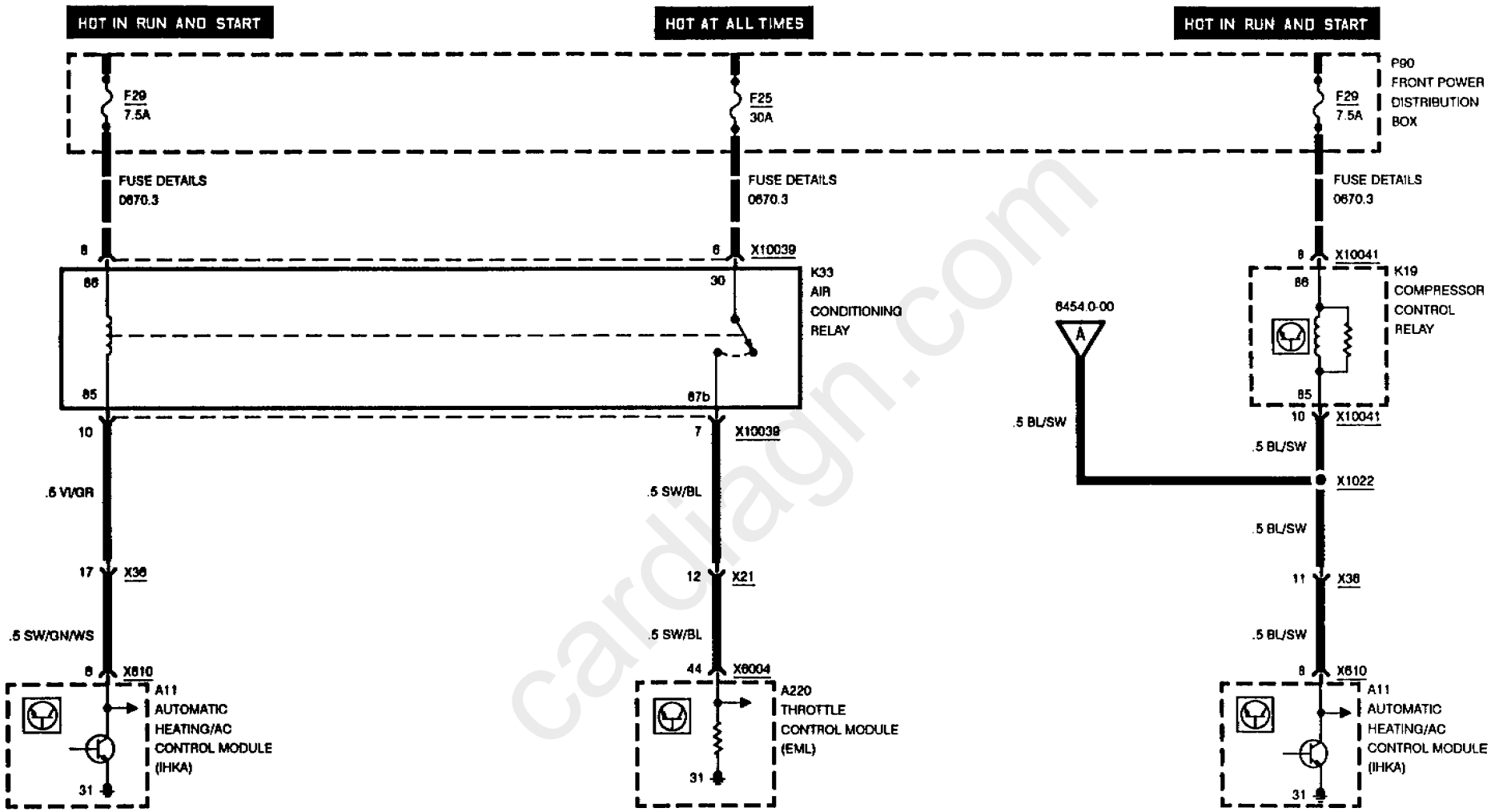
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AUXILIARY FAN



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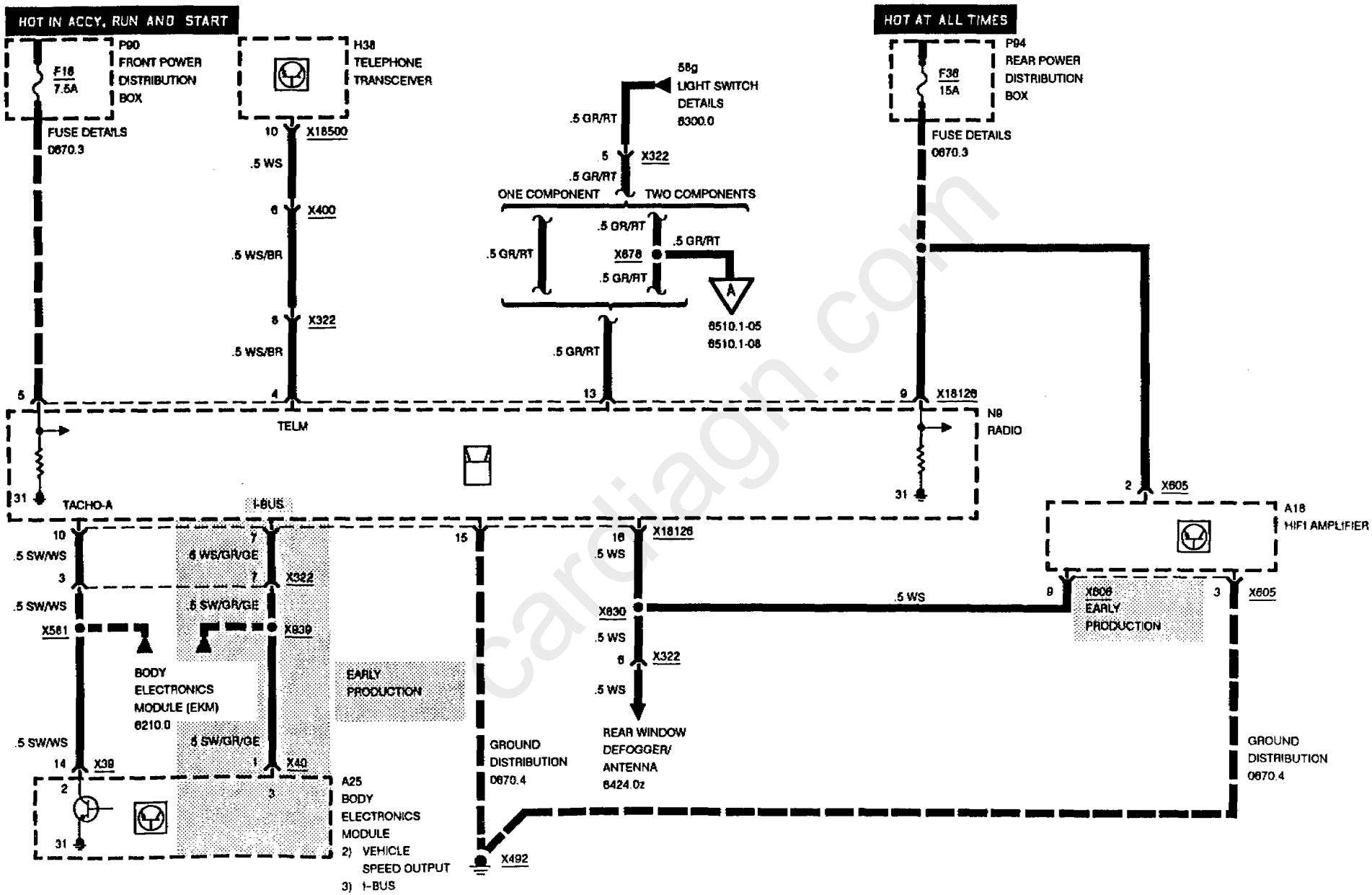
AUXILIARY FAN



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RADIO/HIFI

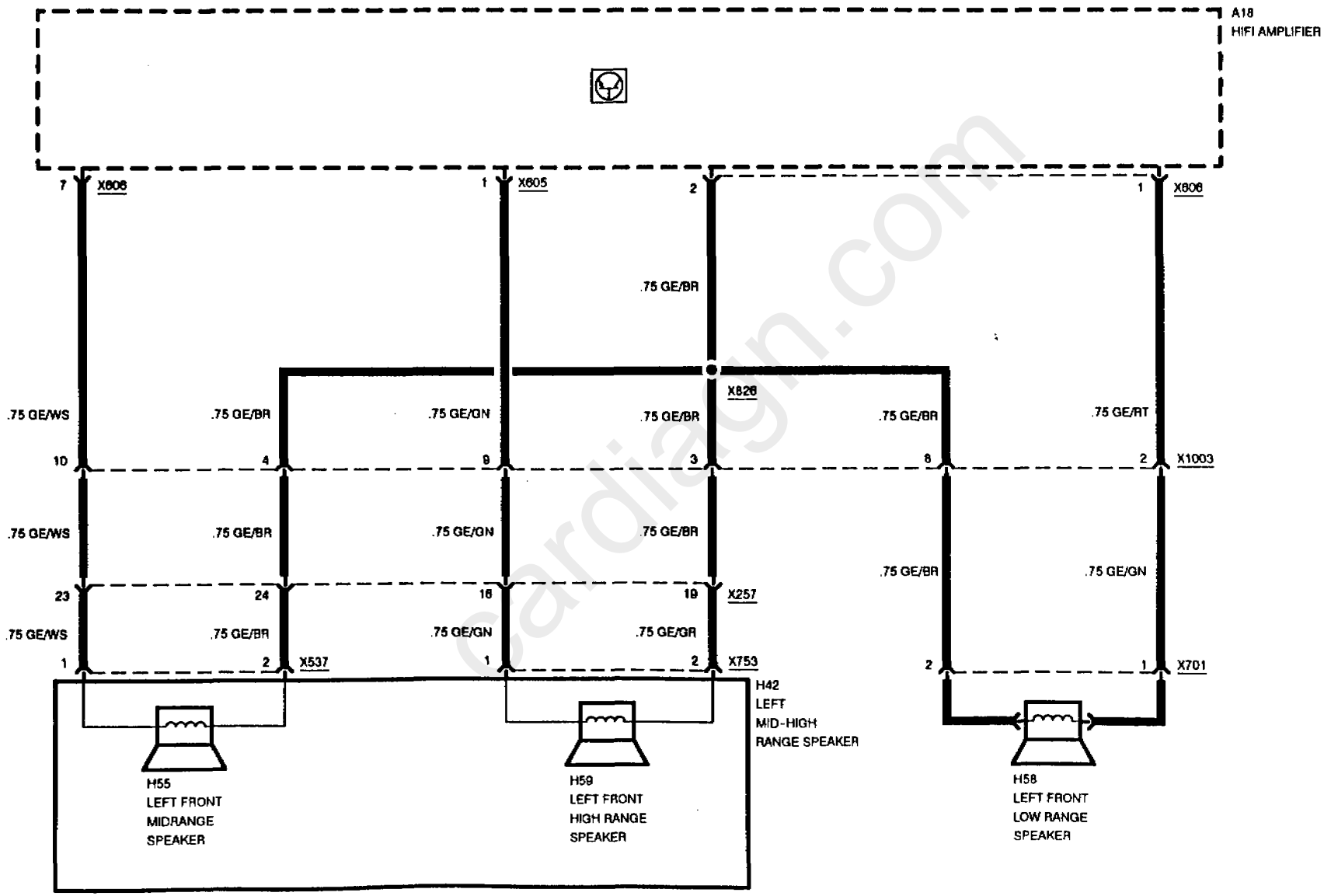
HIFI, 10-SPEAKER SYSTEM



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RADIO/HIFI

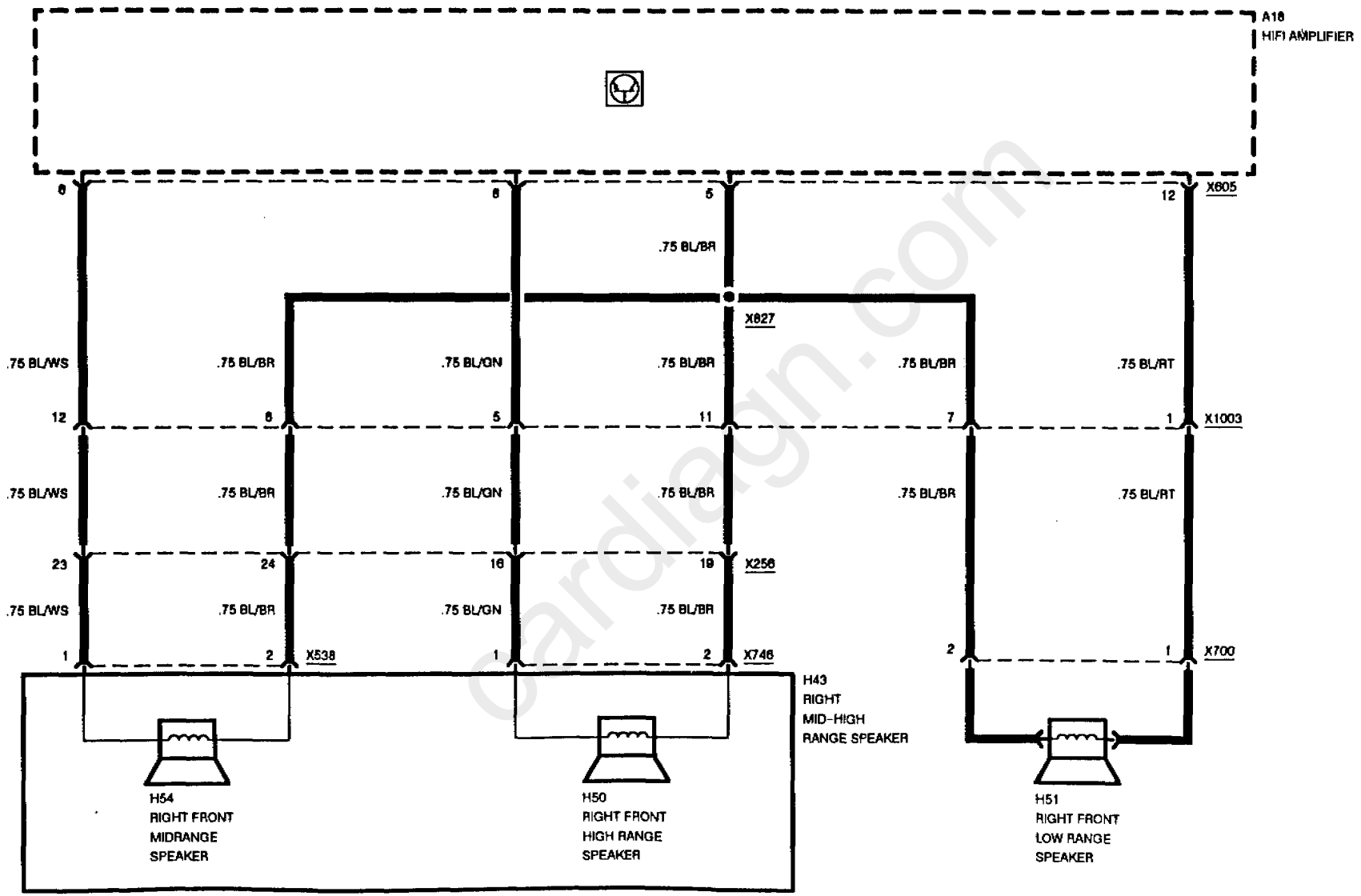
HIFI, 10-SPEAKER-SYSTEM, FRONT



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RADIO/HIFI

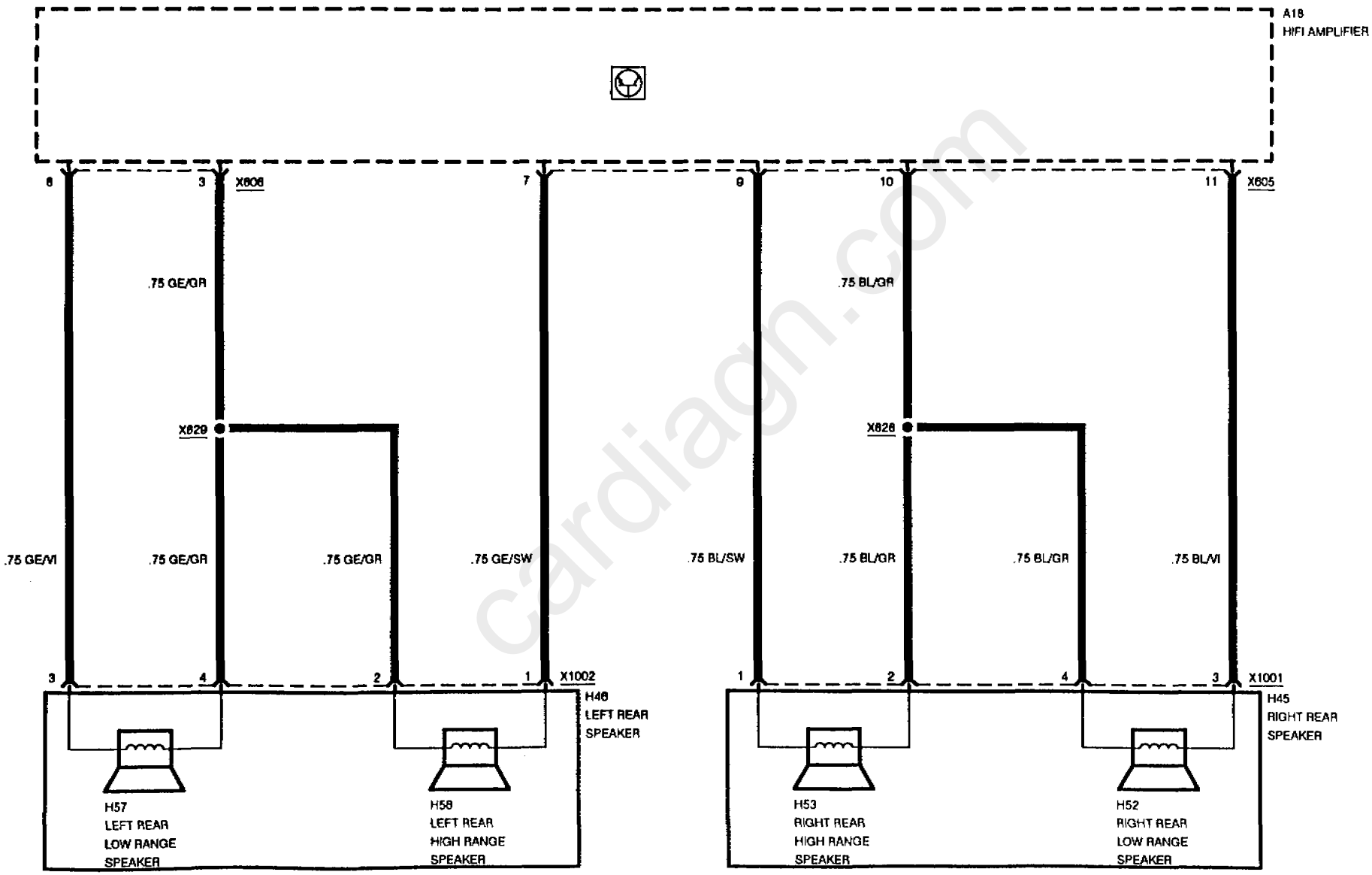
HIFI, 10-SPEAKER-SYSTEM, FRONT



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RADIO/HIFI

HIFI, 10-SPEAKER-SYSTEM, REAR

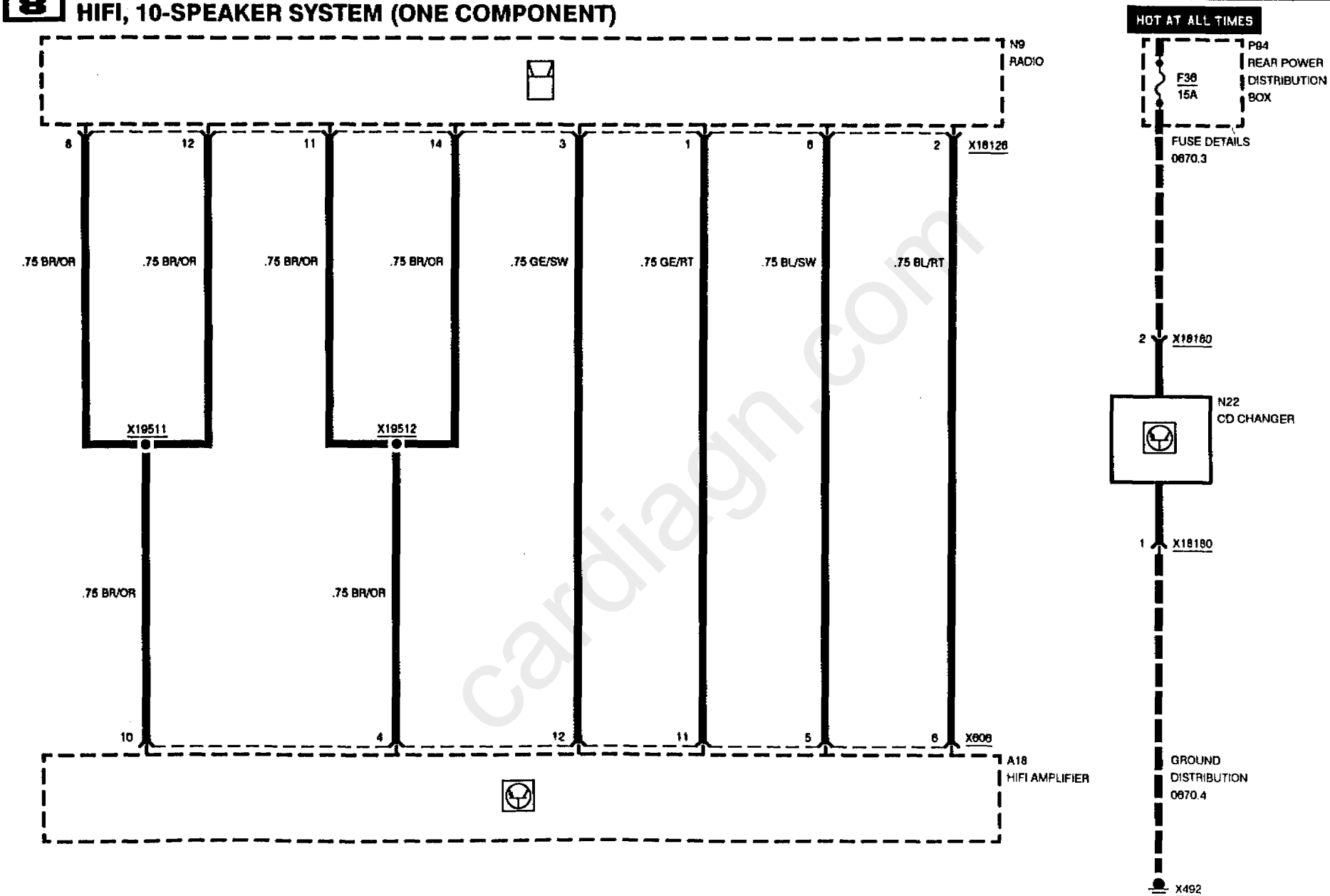


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RADIO/HIFI

HIFI, 10-SPEAKER SYSTEM (ONE COMPONENT)

EARLY PRODUCTION

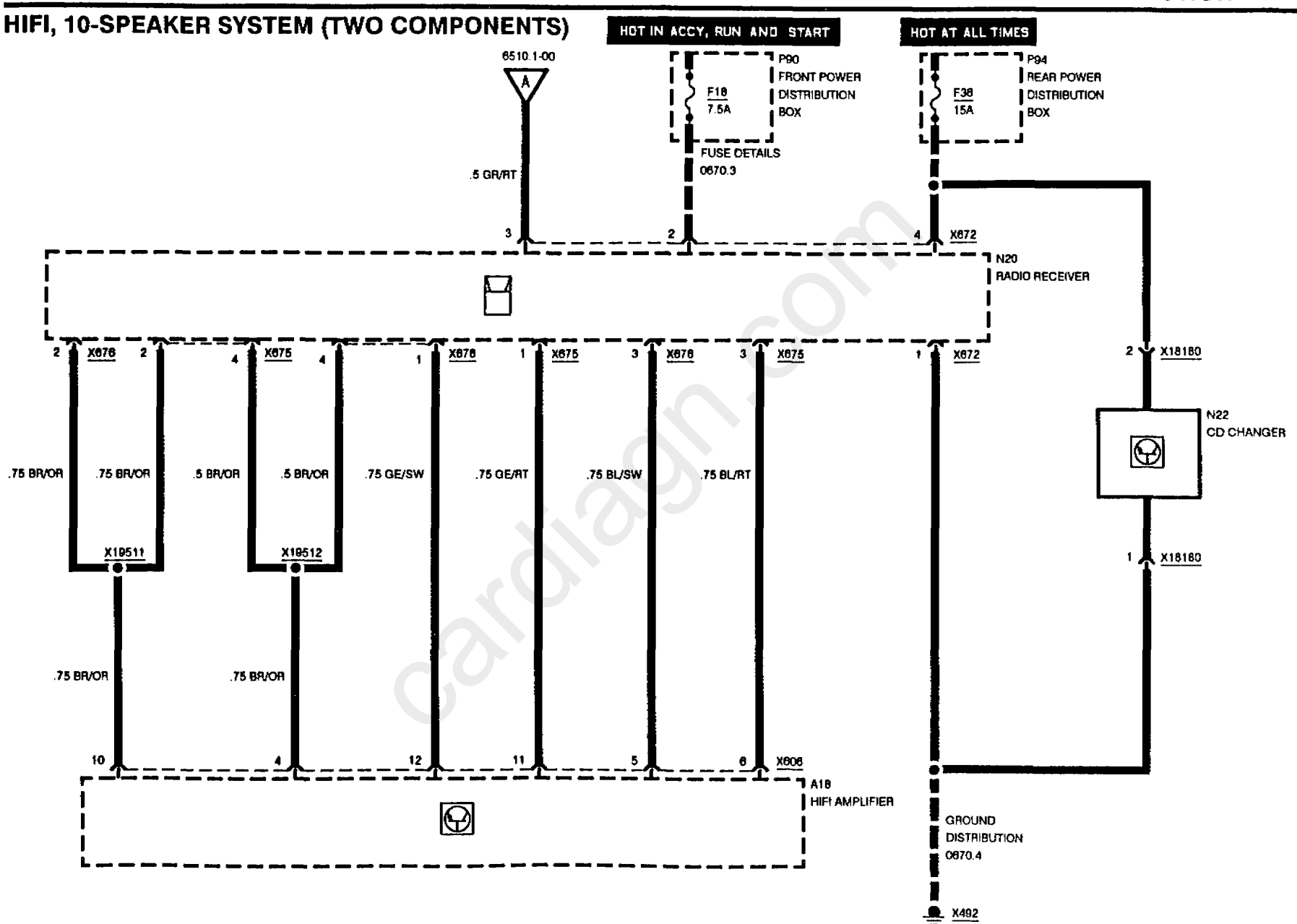


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RADIO/HIFI

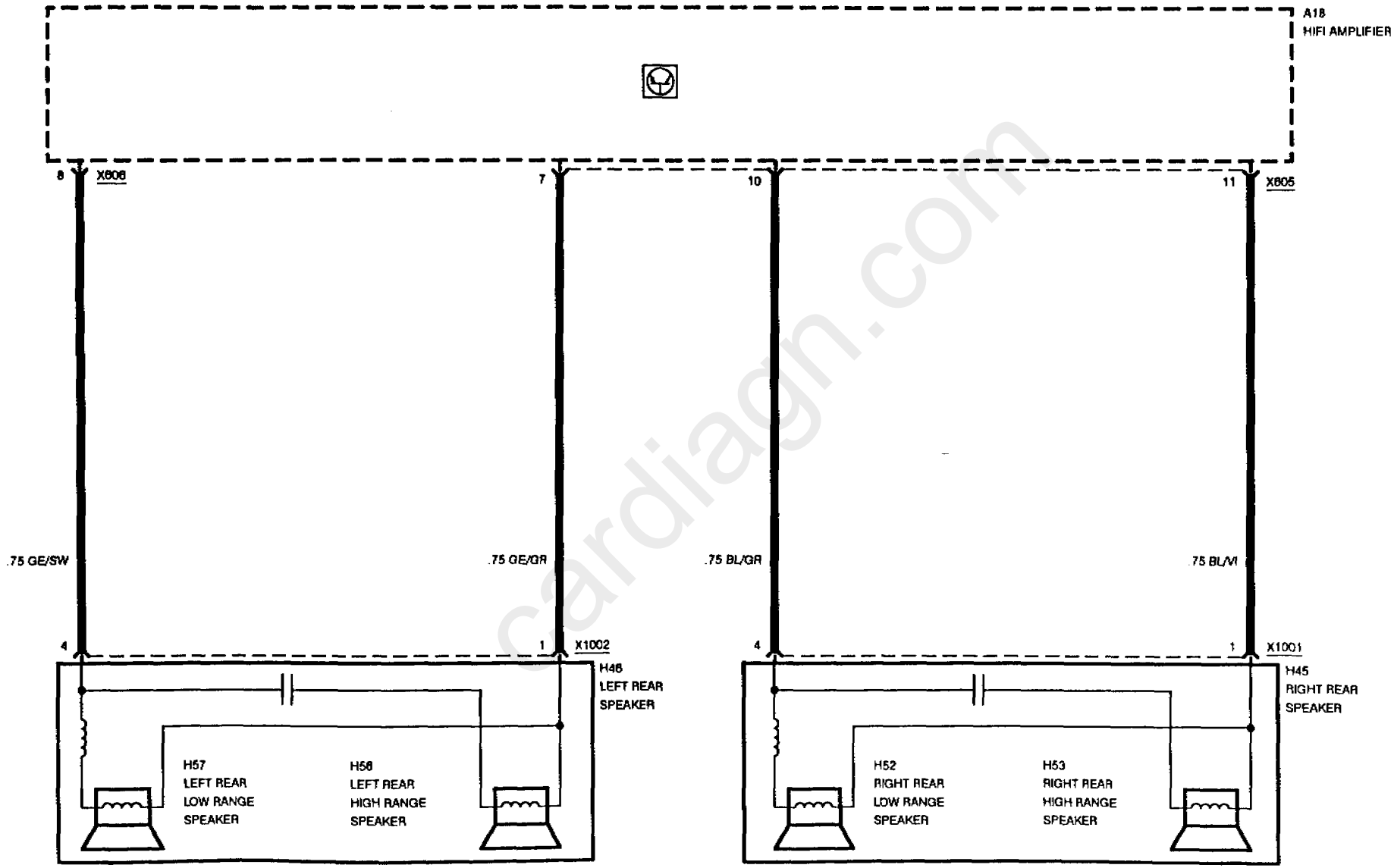
HIFI, 10-SPEAKER SYSTEM (TWO COMPONENTS)

EARLY PRODUCTION



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HIFI, 10-SPEAKER-SYSTEM, REAR

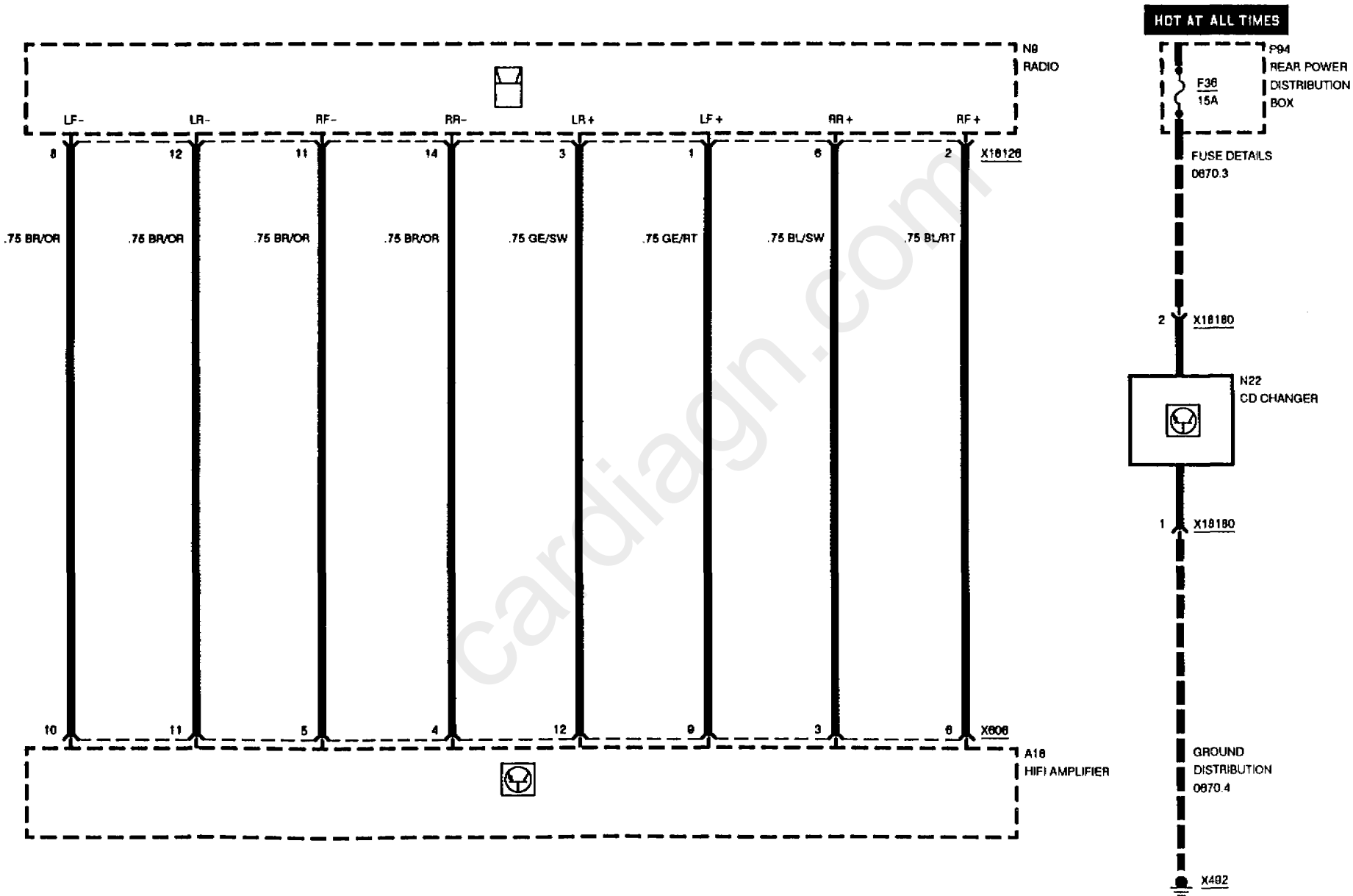


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RADIO/HIFI

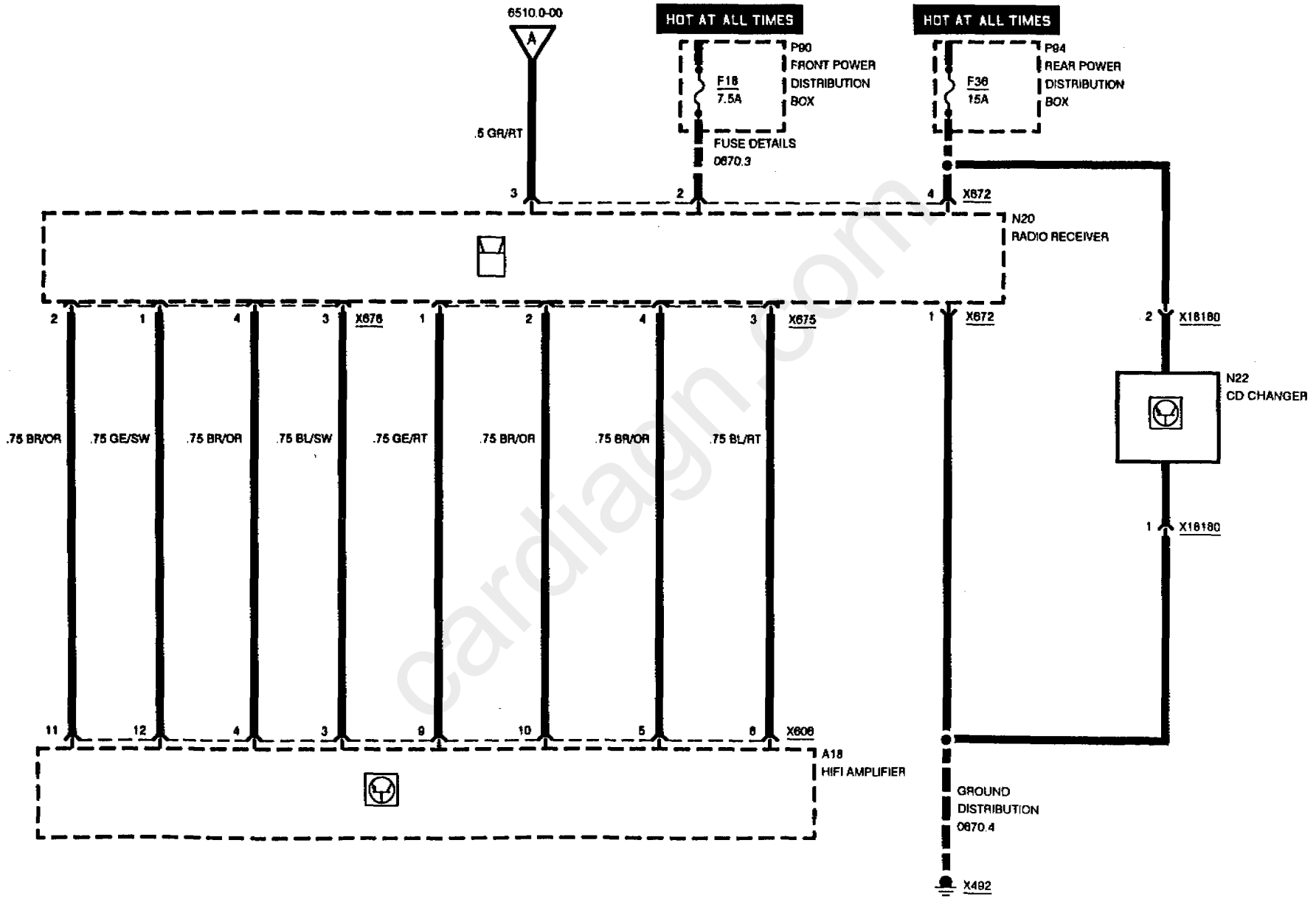
HIFI, 10-SPEAKER SYSTEM (ONE COMPONENT)

EARLY PRODUCTION



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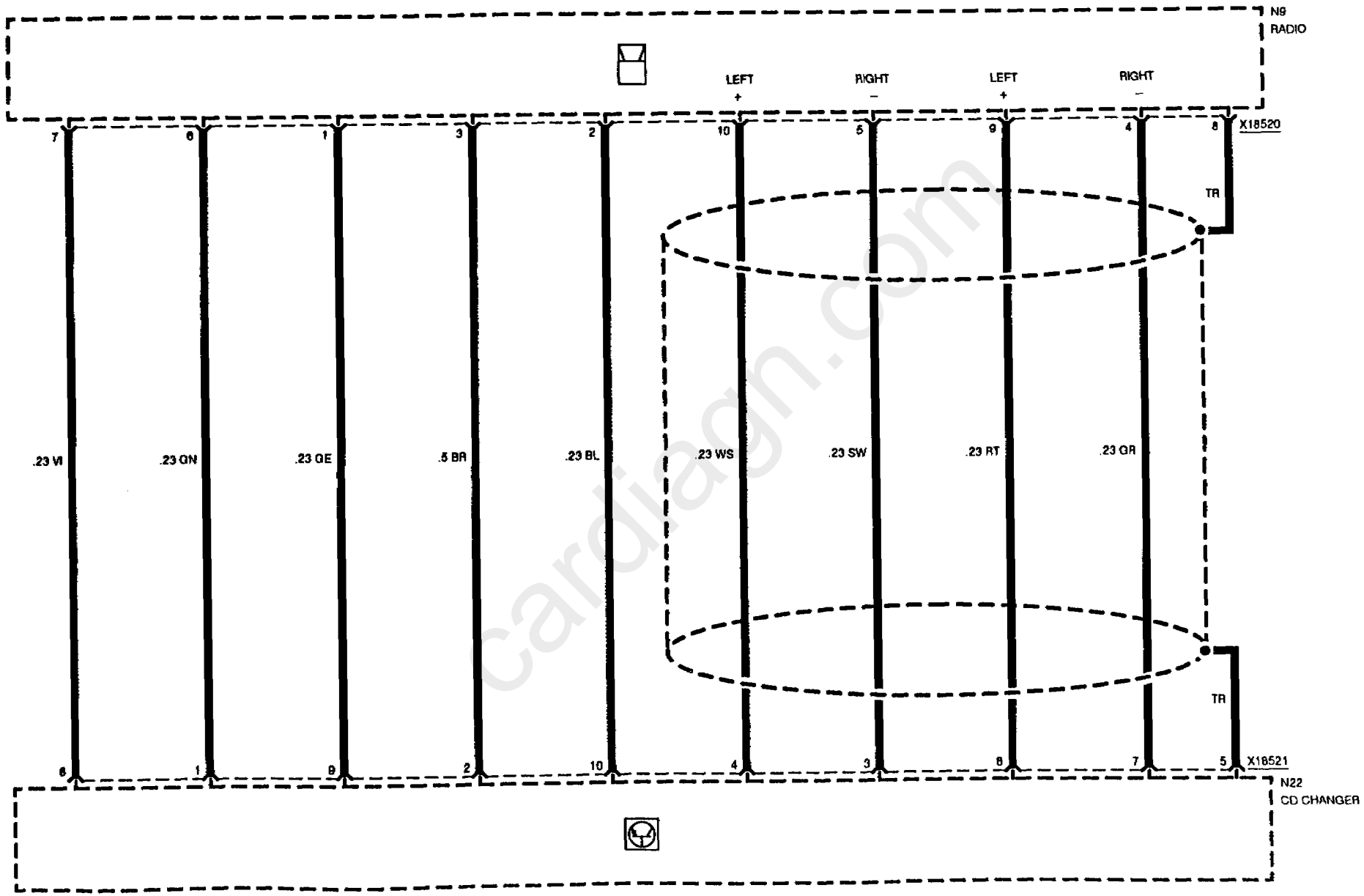
HIFI, 10-SPEAKER SYSTEM (TWO COMPONENTS)



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RADIO/HIFI

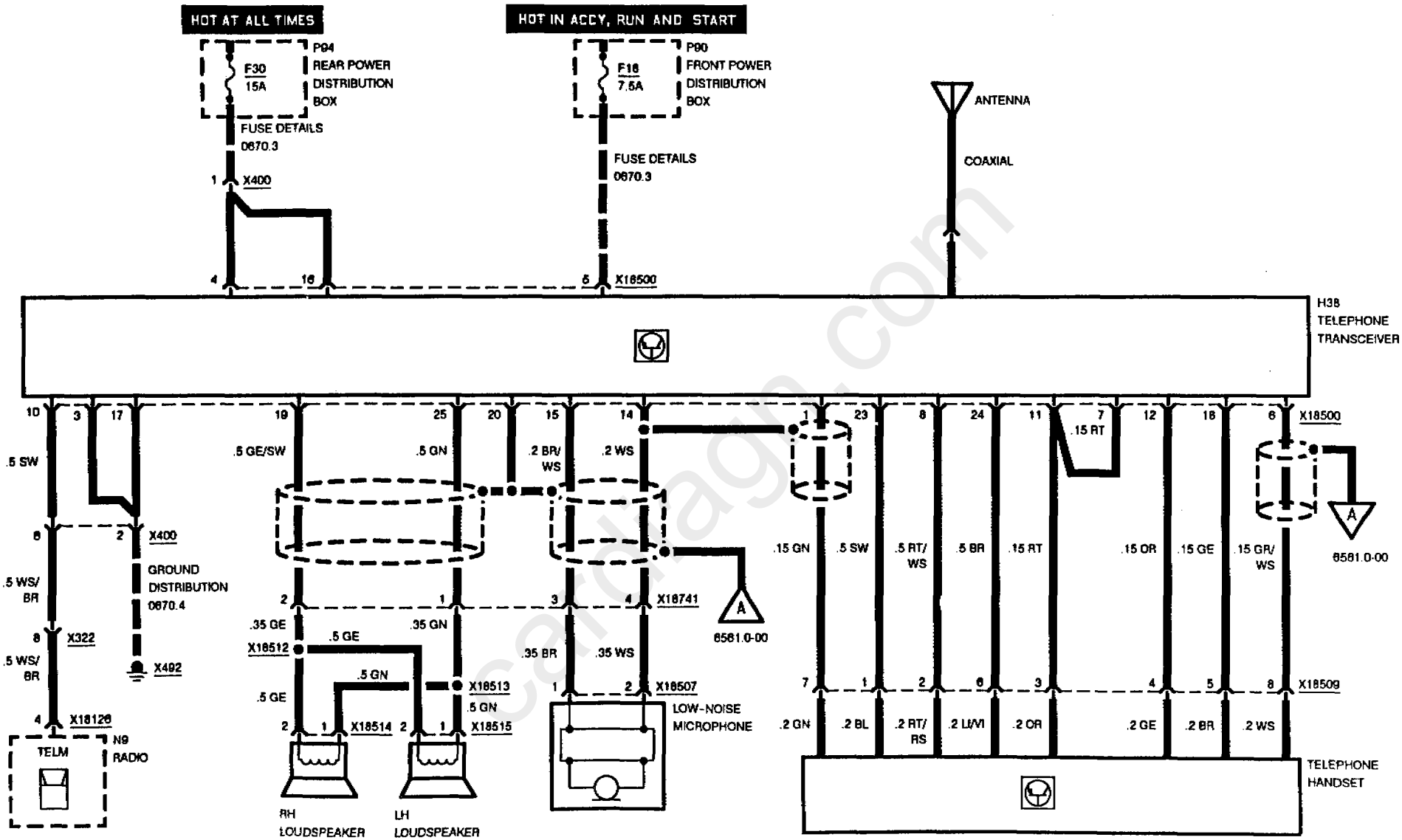
HIFI, 10-SPEAKER SYSTEM



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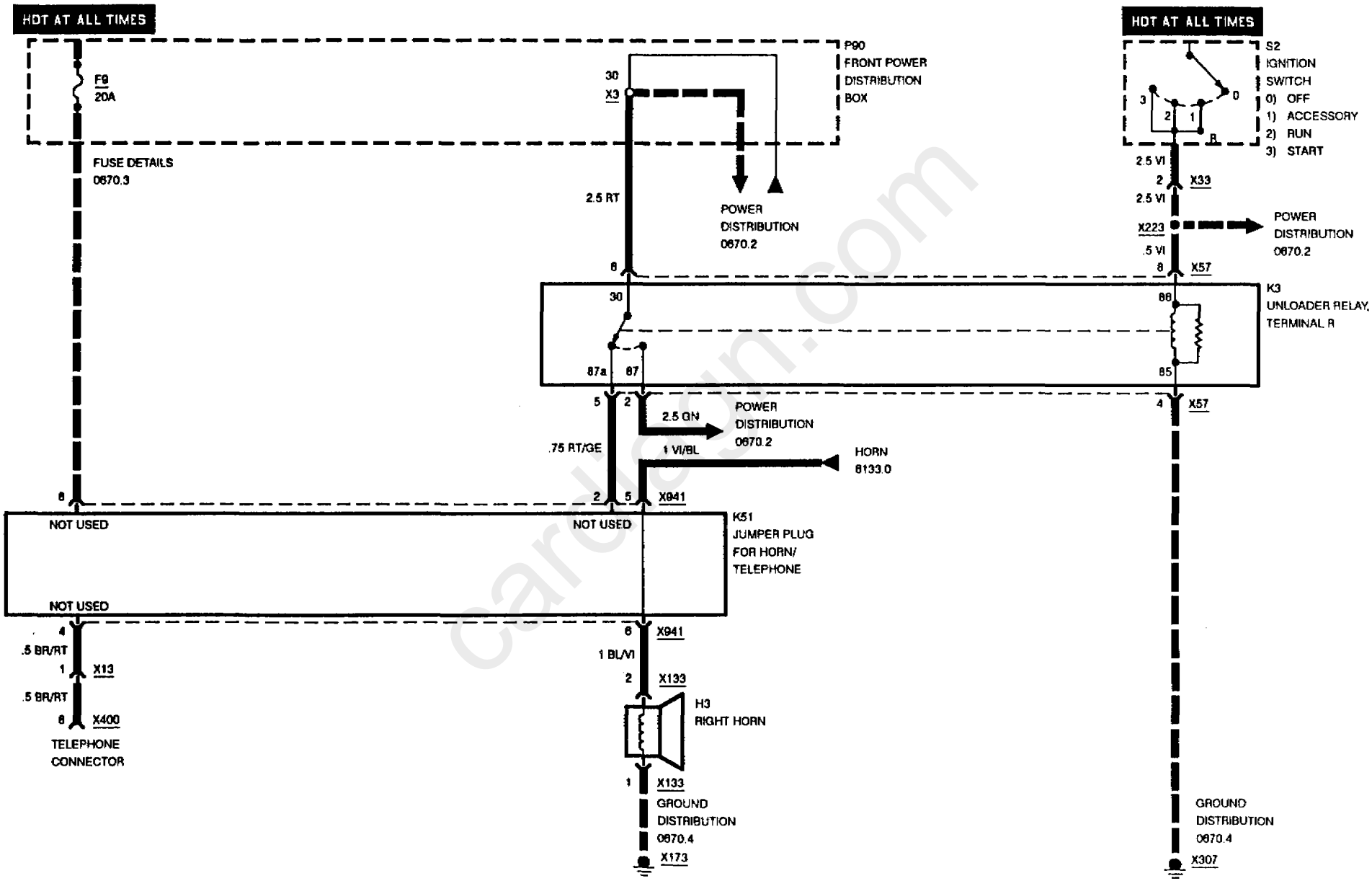
CELLULAR TELEPHONE (PROVISIONS)

AMPS SYSTEM



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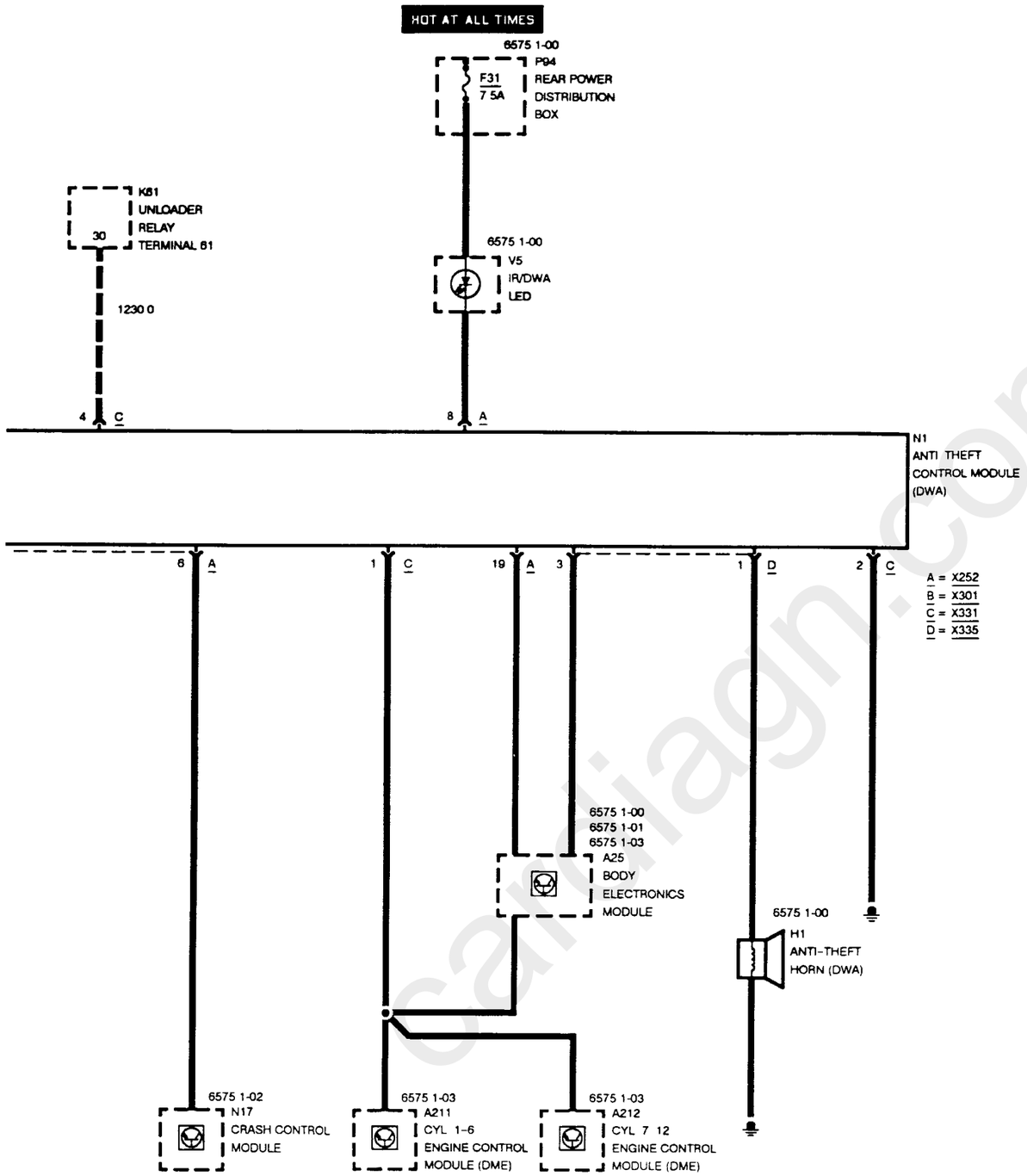
CELLULAR TELEPHONE (PROVISIONS)



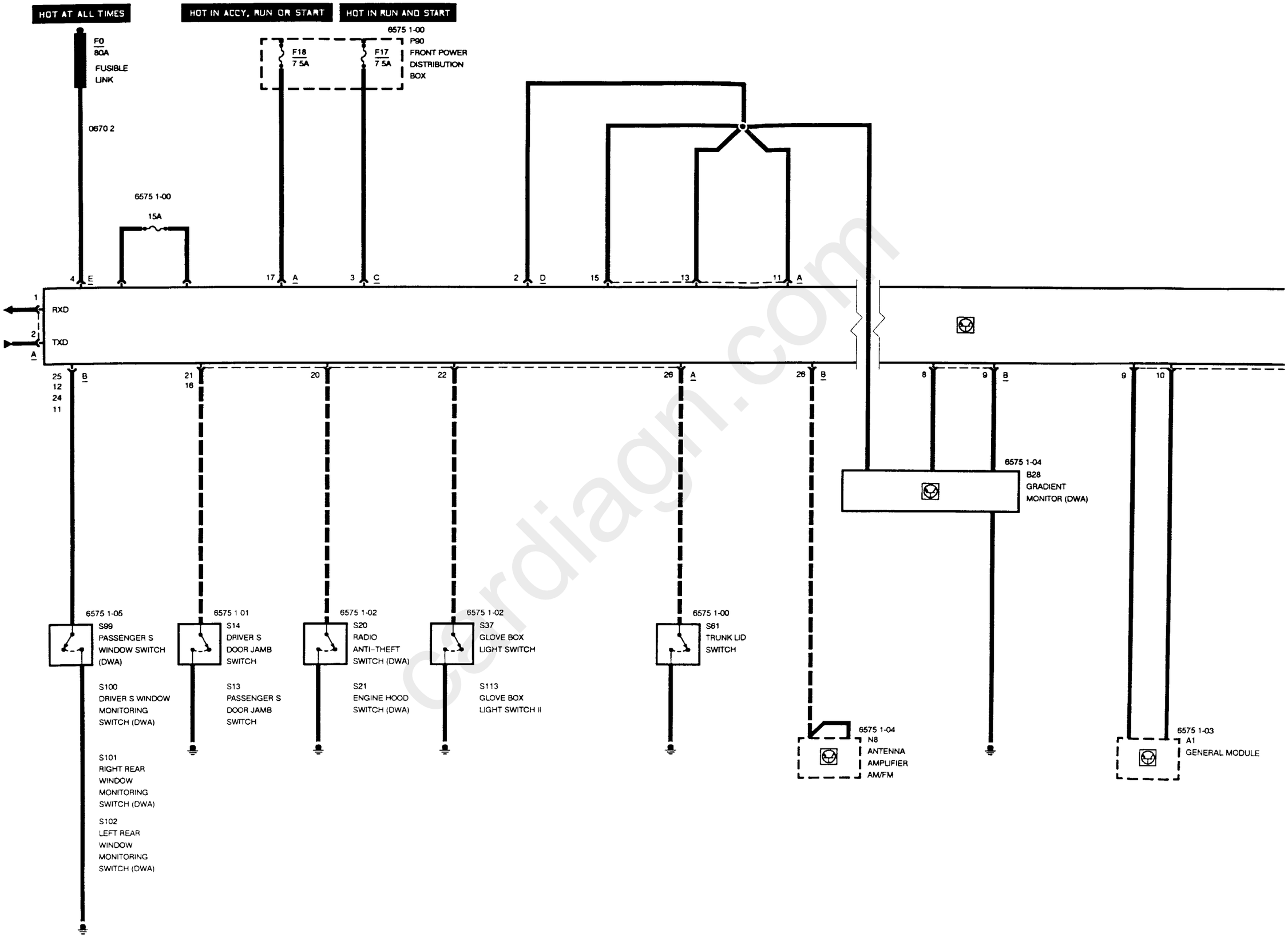
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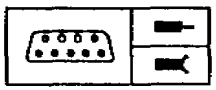
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HOT AT ALL TIMES
6575 1-00
P94
F31
7 5A
REAR POWER
DISTRIBUTION
BOX
K61
UNLOADER
RELAY
30
TERMINAL 61
1230 0
6575 1-00
V5
IR/DWA
LED
4 C
8 A
N1
ANTI THEFT
CONTROL MODULE
(DWA)
6 A
1 C
19 A
3
1 D
2 C
A = X252
B = X301
C = X331
D = X335
6575 1-00
6575 1-01
6575 1-03
A25
BODY
ELECTRONICS
MODULE
6575 1-00
H1
ANTI-THEFT
HORN (DWA)
6575 1-02
N17
CRASH CONTROL
MODULE
6575 1-03
A211
CYL 1-6
ENGINE CONTROL
MODULE (DME)
6575 1-03
A212
CYL 7 12
ENGINE CONTROL
MODULE (DME)

11/92 — 6575.1



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Pin Assignments

A=X252 26 pins, black
B=X301 26 pins, white
C=X331 5 pins, black
D=X335 4 pins

X252

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	E	Diagnostic link RxD	Diagnostic connector			
2	A	Diagnostic link TxD	Diagnostic connector			
3		Not used				
4		Not used				
5		Not used				
6	A	Flash exterior lamps signal	Crash control unit			
7		Not used				
8	A	Status–LED	IR/DWA LED	Ground		
9	E	Lock signal ZS1N	General module	12 V	Status display	
10	E	Lock signal ZS1	General module	12 V	Status display	
11	E	Lock signal ZS21 simulation		12 V		
12		Not used				
13	E	Lock signal ZS22 simulation		12 V		
14		Not used				

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Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
15	E	Lock signal HKS simulation		12 V		
16	E	Passenger's door contact input	Passenger's door jamb switch	Ground	Status display	
17	E	Connection terminal R	Fuse	12 V	Status display	
18		Not used				
19	E	Position pulse	EKM control unit	Square–wave signal	0–12 V	
20	E	Engine hood/radio status	Engine hood/radio switches	Ground	Status display	
21	E	Driver's door contact input	Driver's door jamb switch	Ground	Status display	
22	E	Glove box door status	Glove box door switches	Ground	Status display	
23		Not used				
24		Not used				
25		Not used				
26	E	Trunk lid status signal	Trunk lid switch			

X301

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1		Not used				
2		Not used				
3		Not used				
4		Not used				
5		Not used				
6		Not used				
7		Not used				

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ANTITHEFT SYSTEM III (DWA III)

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
8	E	Tilt signal	Gradient monitor			
9	E	Tilt signal	Gradient monitor			
10		Not used				
11	E	Left rear window status	Left rear window switch			
12	E	Driver's window status	Driver's window switch			
13		Not used				
14		Not used				
15		Not used				
16		Not used				
17		Not used				
18		Not used				
19		Not used				
20		Not used				
21		Not used				
22		Not used				
23		Not used				
24	E	Right rear window status	Right rear window switch			
25	E	Passenger's window status	Passenger's window status			
26	E	Rear window status	Antenna amplifier AM/FM			

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ANTITHEFT SYSTEM III (DWA III)

X331

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	A	Drive–away protection	DME control unit	12 V		
2	E	Ground	Body ground			
3	E	Terminal 15	Fuse 17	12 V	Status display	
4	E	Terminal 61E	Battery charge indicator	12 V		
5		Not used				

X335

Pin	Type	Description/Function	Connection	Type of Signal	Tester Display	Measurement Notes
1	A	Alarm horn connection	Alarm horn	12 V	Tester display	
2	A	Terminal 30 for tilt sensor/ auxiliary module	Connector NG/ZM	12 V		
3	E	EKM connection	EKM control unit	Ground		
4	E	Terminal 30 voltage	Fusible link	12 V		

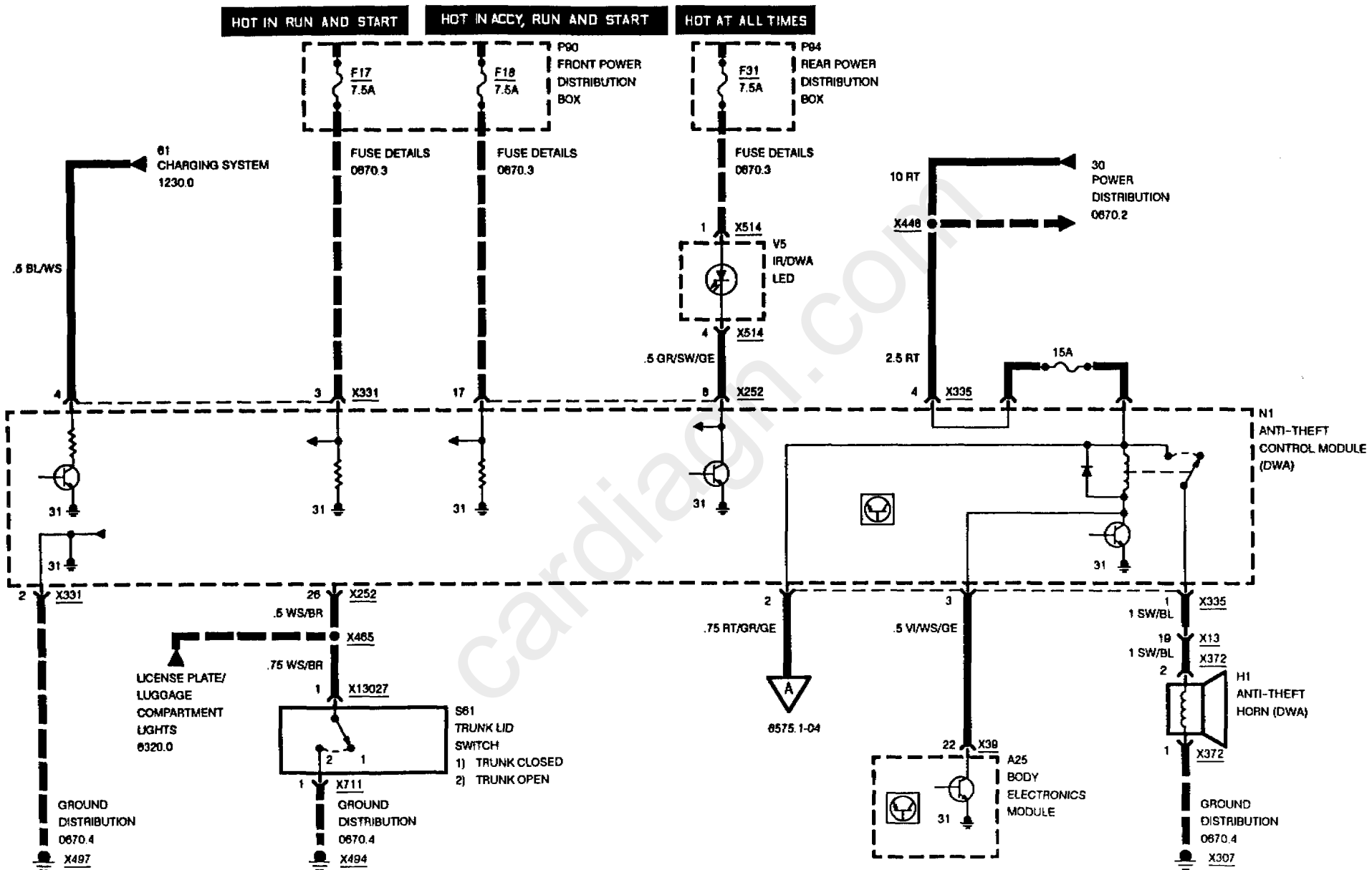
E = Input, A = Output, M = Ground

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ANTI-THEFT SYSTEM III (DWA III)

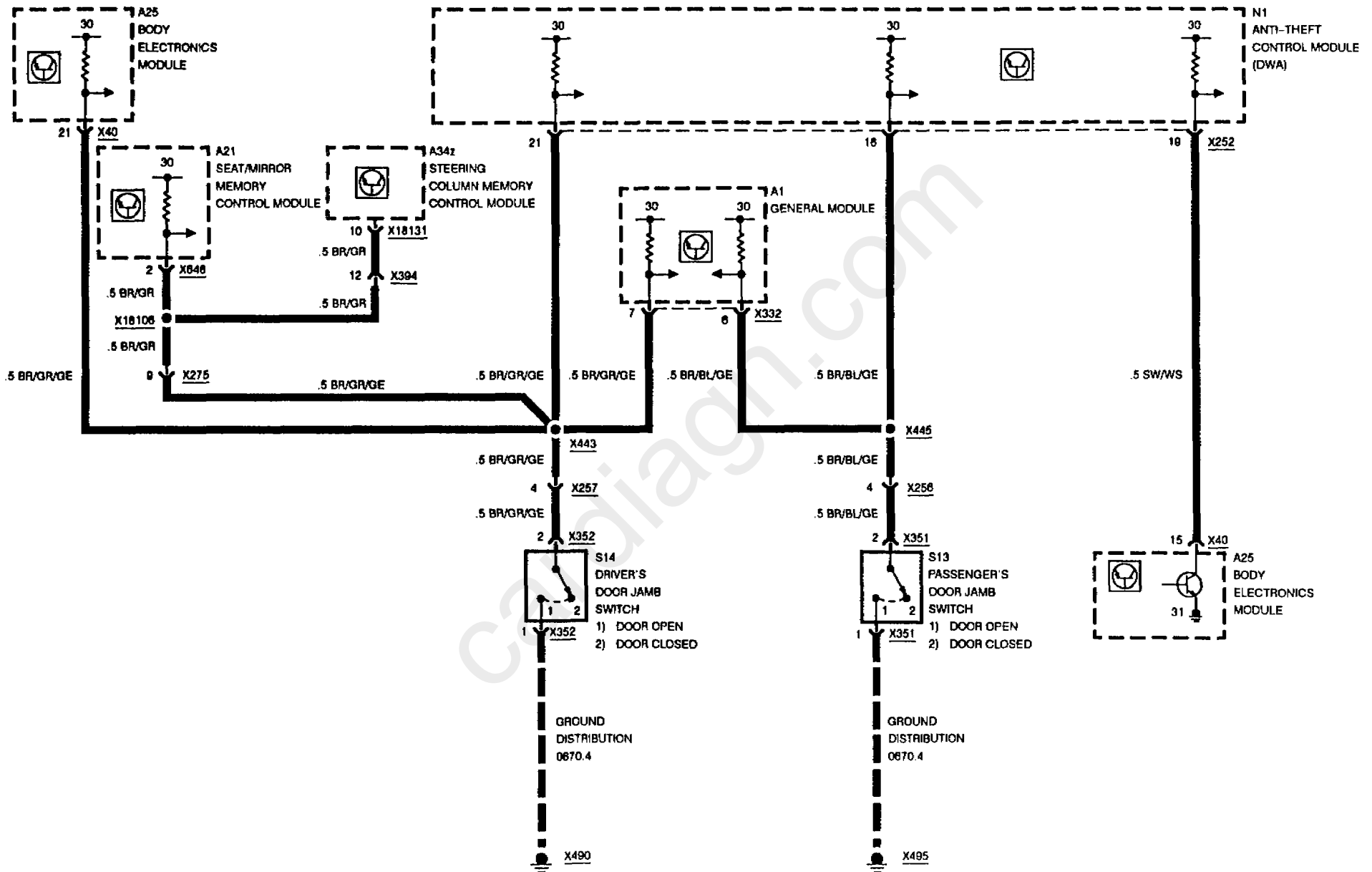
POWER, ENGINE RUNNING INPUT, TRUNK INPUT, ANTI-THEFT HORN (DWA)



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ANTI-THEFT SYSTEM III (DWA III)

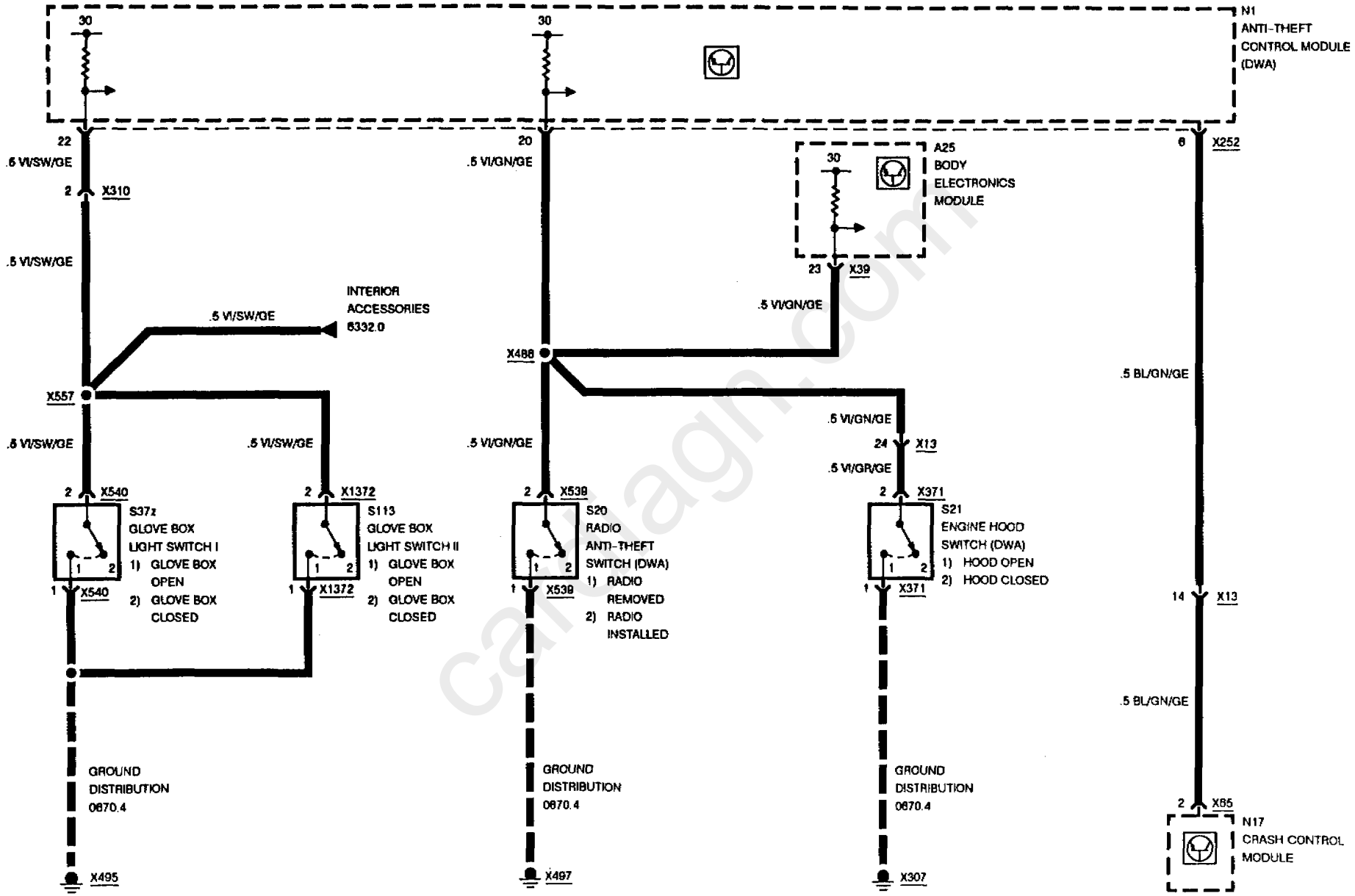
FRONT DOOR CONTACTS, CODING PLUG



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ANTI-THEFT SYSTEM III (DWA III)

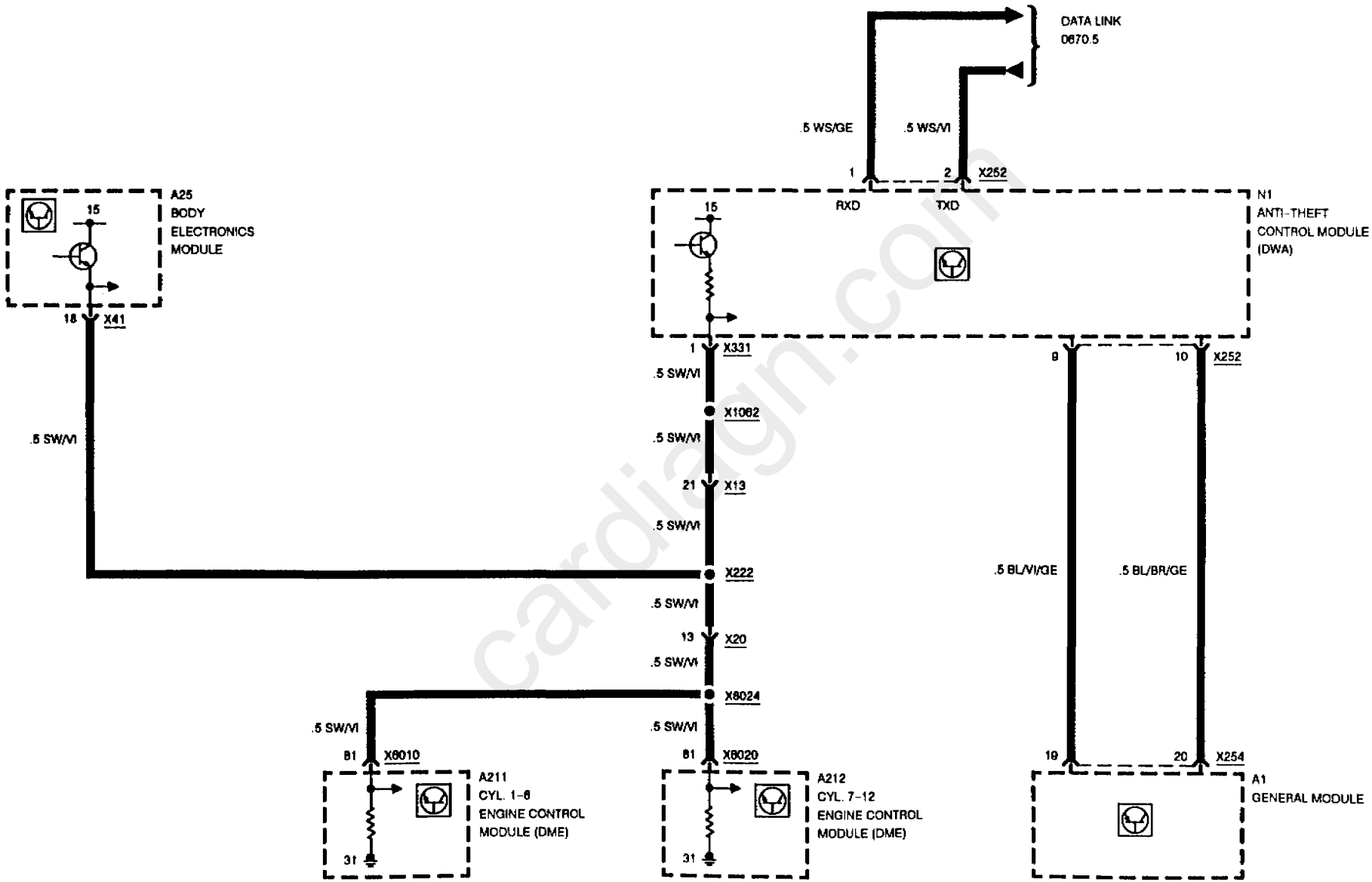
GLOVE BOX, RADIO, ENGINE HOOD INPUTS AND VISUAL ALARM



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ANTI-THEFT SYSTEM III (DWA III)

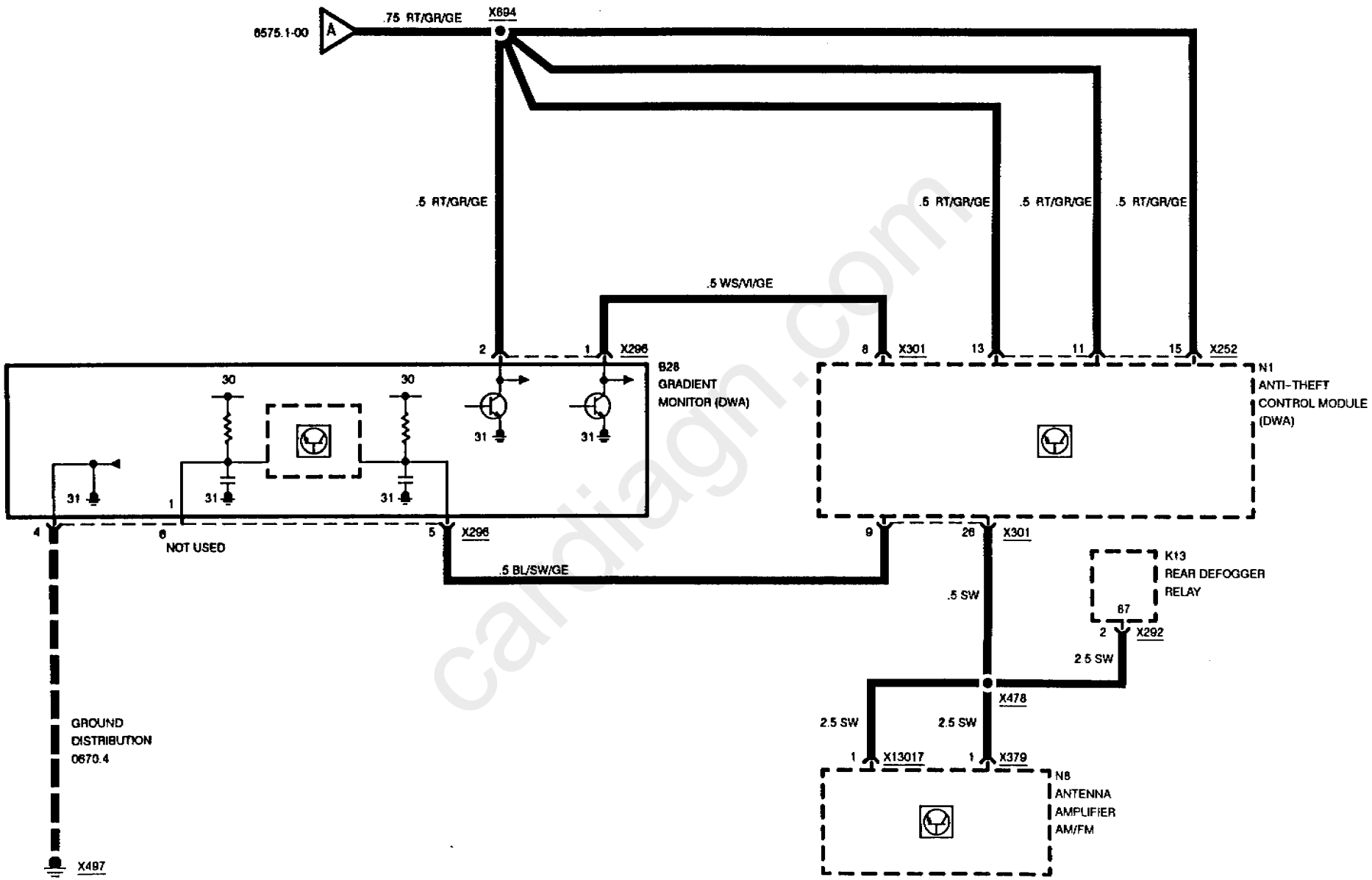
DATA LINK, DRIVE AWAY PROTECTION, QZV



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ANTI-THEFT SYSTEM III (DWA III)

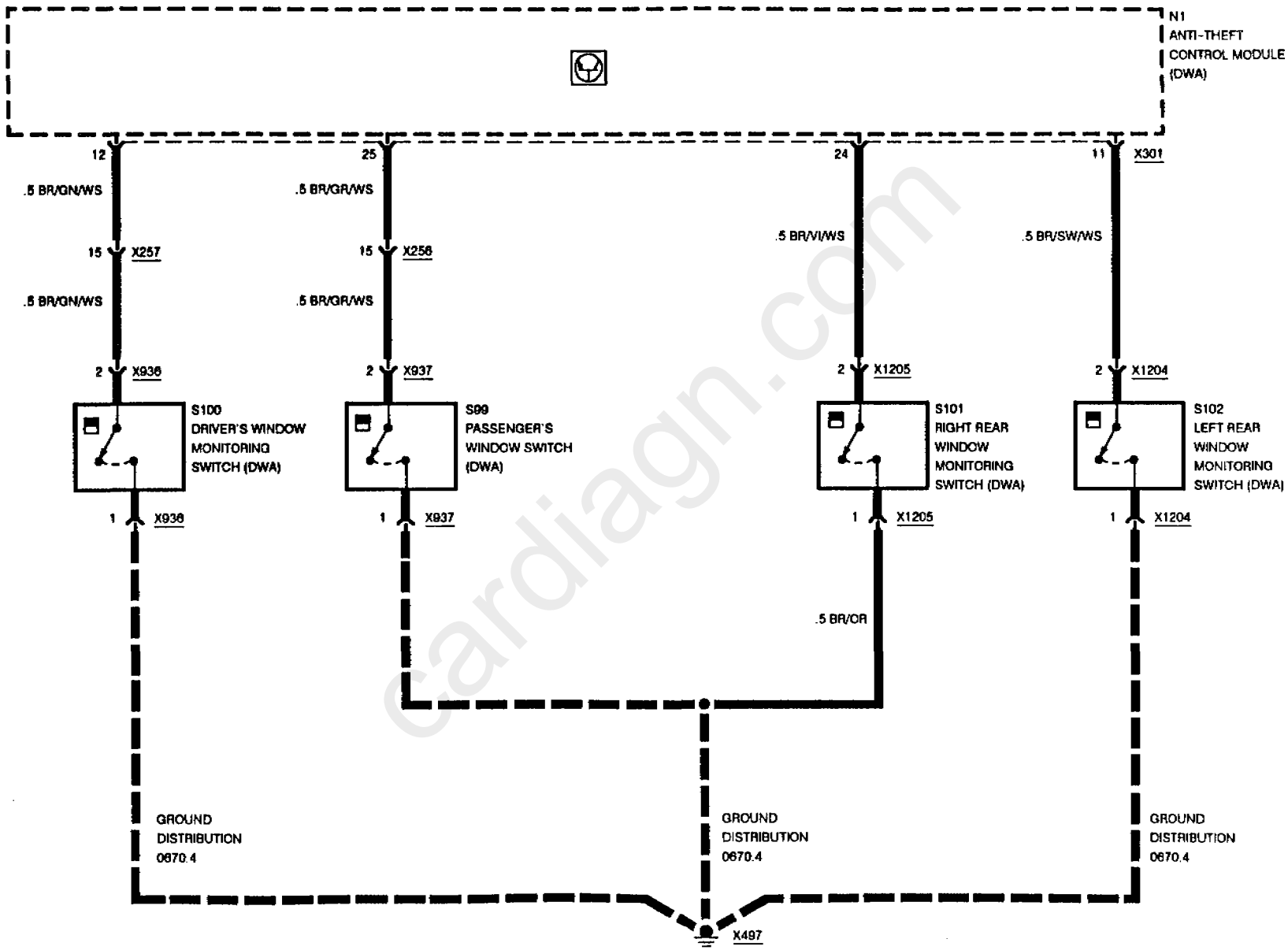
GRADIENT MONITOR AND DATA LINK



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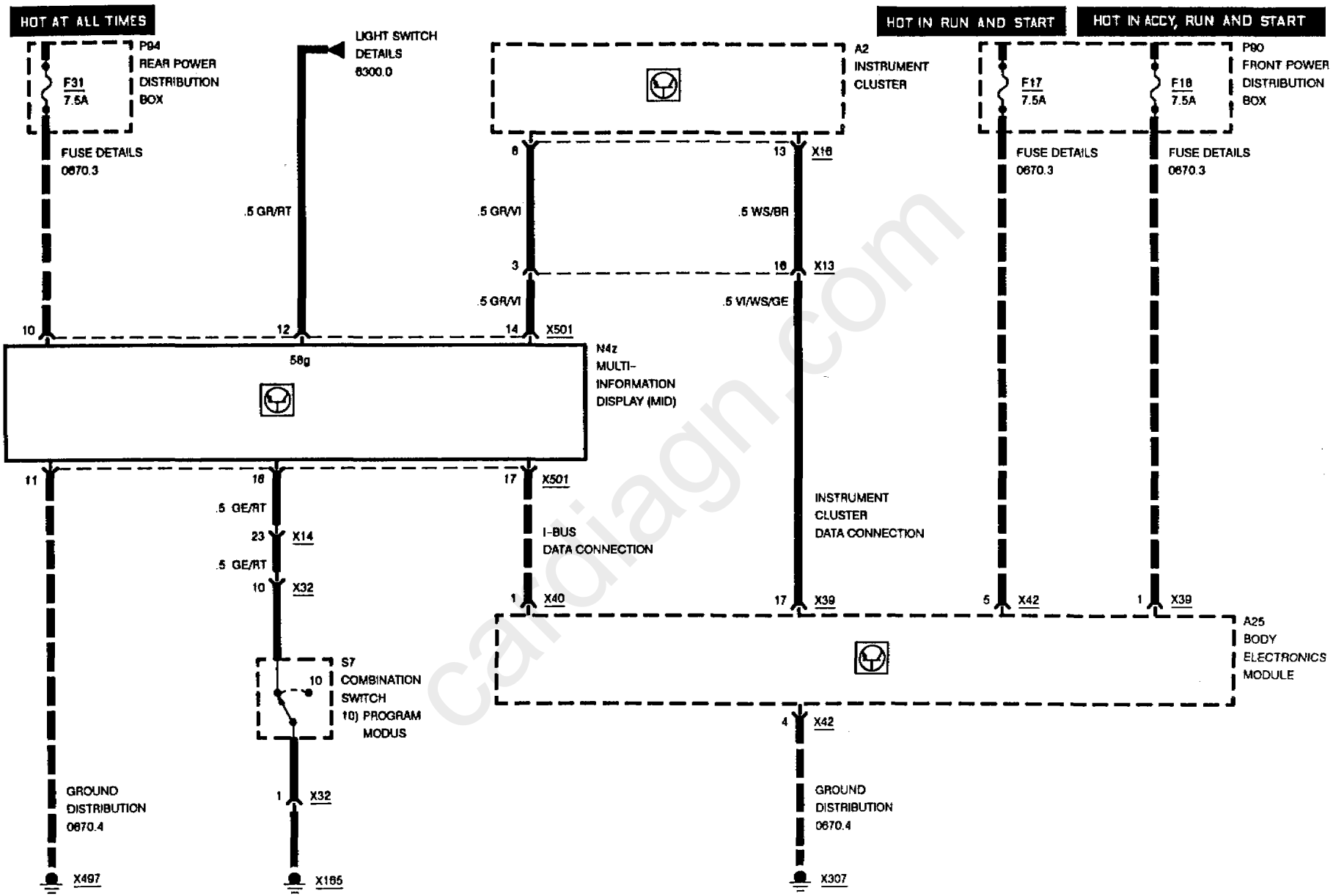
ANTI-THEFT SYSTEM III (DWA III)

FRONT AND REAR WINDOW SWITCHES



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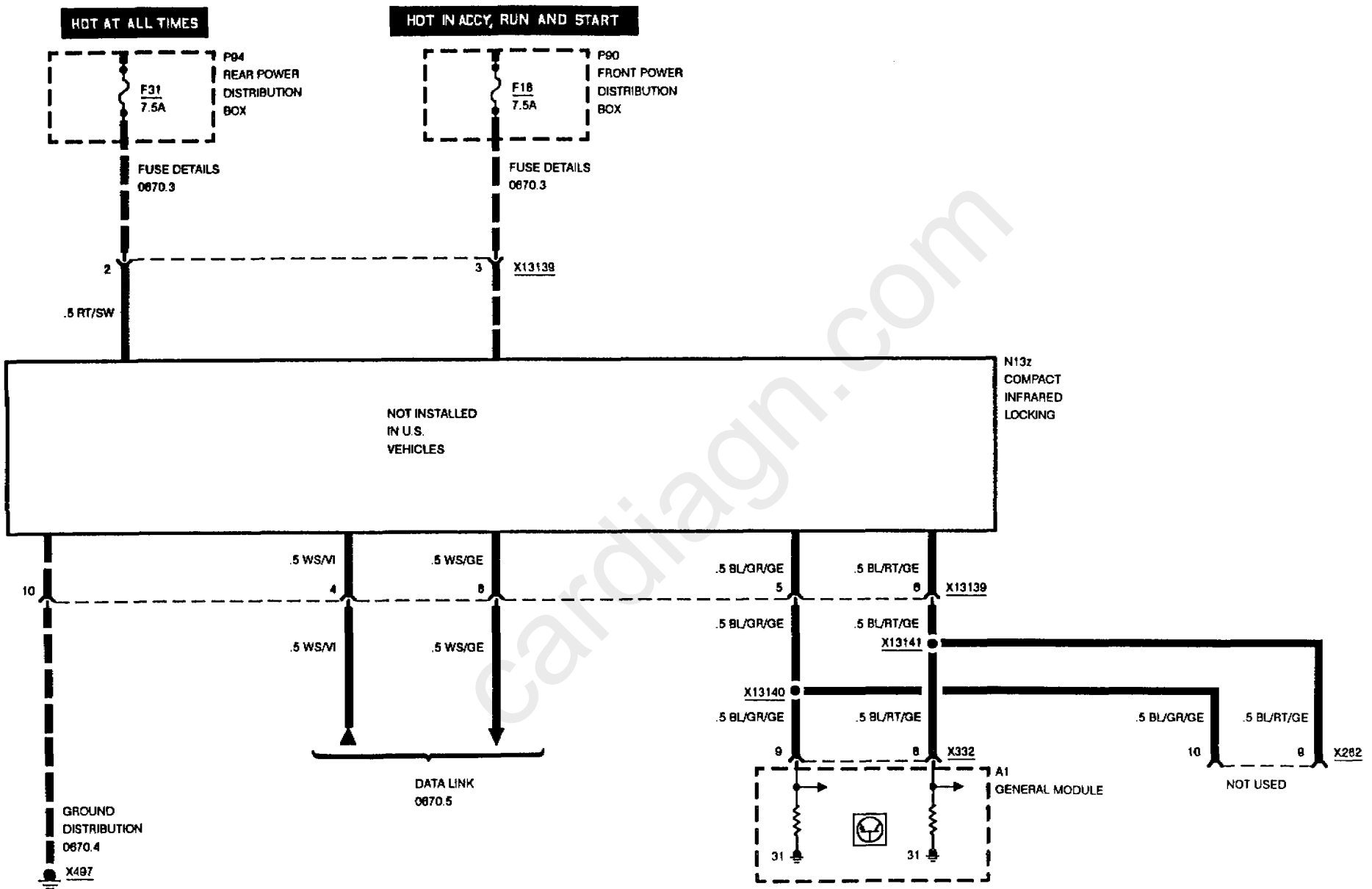
MULTI- INFORMATION DISPLAY (MID)



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INFRARED LOCKING (IRS)



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COMPONENT LOCATION CHART

COMPONENT

PAGE - FIGURE
7100.0 8500.0

A1 .... GENERAL MODULE ..... Below LH side of dash 01-2

A1 .... GENERAL MODULE ..... Below LH side of dash 29-1

A2 .... INSTRUMENT CLUSTER ..... LH side of dash

A3 .... LAMP CONTROL MODULE ..... Below LH side of dash 00-3

A3 .... LAMP CONTROL MODULE ..... Below LH side of dash 30-3

A5 .... RELAY MODULE ..... Inside box on interior side of LH door sill 03-2

A5 .... RELAY MODULE ..... Inside box on interior side of LH door sill 25-1

A11 ... AUTOMATIC HEATING/AC CONTROL MODULE (IHKA) ..... Between front footwells

A12 ... SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE ..... Below RH side of dash 00-2

A12 ... SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE ..... Below RH side of dash 31-1

A15 ... PARK HEATING/VENTILATION RELAY BOX ... Below RH side of dash 00-2

A15 ... PARK HEATING/VENTILATION RELAY BOX ... Below RH side of dash 31-1

A17 ... SERVOTRONIC CONTROL MODULE ..... LH side of LH footwell 01-3

A17 ... SERVOTRONIC CONTROL MODULE ..... LH side of LH footwell 27-2

A18 ... HIFI AMPLIFIER ..... In LH forward side of luggage compartment 39-1

A21 ... SEAT/MIRROR MEMORY CONTROL MODULE Underside of LH front seat 22-1

A23 ... DRIVER'S DOOR MODULE ..... In lower LH front door 32-3

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0 8500.0
A24	PASSENGER'S DOOR MODULE	In upper RH front door	32-3
A25	BODY ELECTRONICS MODULE	Below LH side of dash	01-2
A25	BODY ELECTRONICS MODULE	Below LH side of dash	29-1
A26	LOCK-SENSOR CONTROL MODULE	LH side of LH footwell	01-3
A26	LOCK-SENSOR CONTROL MODULE	LH side of LH footwell	27-2
A33	SUNROOF MODULE	Center of windshield header	28-3
A70	SLIP CONTROL MODULE (ABS/ASC)	Inside box on interior side of LH door sill	03-1
A70	SLIP CONTROL MODULE (ABS/ASC)	Inside box on interior side of LH door sill	26-1
A82	SUN BLIND CONTROL MODULE	At back of rear window shelf	23-1
A211	CYL. 1-6 ENGINE CONTROL MODULE (DME)	Rear RH side of engine compartment in E-Box	00-1
A211	CYL. 1-6 ENGINE CONTROL MODULE (DME)	Rear RH side of engine compartment in E-Box	21-1
A212	CYL. 7-12 ENGINE CONTROL MODULE (DME)	Rear RH side of engine compartment in E-Box	00-1
A212	CYL. 7-12 ENGINE CONTROL MODULE (DME)	Rear RH side of engine compartment in E-Box	21-1
A220	THROTTLE CONTROL MODULE (EML)	Rear RH side of engine compartment in E-Box	00-1
A220	THROTTLE CONTROL MODULE (EML)	Rear RH side of engine compartment in E-Box	21-1
A22z	ELECTROCHROMIC REAR VIEW MIRROR	Center of windshield header	
A34z	STEERING COLUMN MEMORY CONTROL MODULE	Center of dash behind radio	
A413	ELECTRONIC SHOCK ABSORBER CONTROL MODULE (EDC)	In RH side of luggage compartment	02-2

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COMPONENT LOCATION CHART

COMPONENT

COMPONENT			PAGE - FIGURE 7100.0	8500.0
A413	ELECTRONIC SHOCK ABSORBER CONTROL MODULE (EDC)	In RH side of luggage compartment		37-2
A417	AUTOMATIC AIR RECIRCULATION CONTROL MODULE	Behind RH footwell speaker grille		01-1
A417	AUTOMATIC AIR RECIRCULATION CONTROL MODULE	Behind RH footwell speaker grille		26-2
A8500	TRANSMISSION CONTROL MODULE (EGS)	In RH rear side of luggage compartment		02-3
A8500	TRANSMISSION CONTROL MODULE (EGS)	In RH rear side of luggage compartment		37-1
A9070	SLIP CONTROL MODULE (ABS/ASC+T)	Inside box on interior side of LH door sill		03-1
A9070	SLIP CONTROL MODULE (ABS/ASC+T)	Inside box on interior side of LH door sill		26-1
B1	RIGHT FRONT SPEED SENSOR - ABS	Behind RH front wheel		
B2	LEFT FRONT SPEED SENSOR - ABS	Behind LH front wheel		
B3	RIGHT REAR SPEED SENSOR - ABS	Behind RH rear wheel		
B4	LEFT REAR SPEED SENSOR - ABS	Behind LH rear wheel		11-1
B6	FUEL LEVEL SENSOR	Under RH rear seat		23-3
B10	VEHICLE SPEED SENSOR	Lower front side of engine compartment		
B11	LH HEAT EXCHANGER TEMPERATURE SENSOR	Center console left behind radio		30-2
B12	RH HEAT EXCHANGER TEMPERATURE SENSOR	Center console right behind radio		
B13	OUTSIDE TEMPERATURE SENSOR	Behind center of cowl under RH side of windshield		
B14	EVAPORATOR TEMPERATURE SENSOR	RH side of LH footwell		

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
B15 ...	ELECTRO- HYDRAULIC CONVERTER (SERVOTRONIC)	Under LH front of car		
B16 ...	LEFT FRONT BRAKE PAD SENSOR	Behind LH front wheel	10-2	
B17 ...	RIGHT REAR BRAKE PAD SENSOR	Behind RH rear wheel		
B18 ...	BRAKE FLUID LEVEL SWITCH	Rear LH side of engine compartment	15-2	
B19 ...	BRAKE PRESSURE REGULATING SWITCH	Rear LH side of engine compartment	15-2	
B20 ...	BRAKE PRESSURE SWITCH	Rear LH side of engine compartment	15-2	
B21 ...	ON-BOARD COMPUTER TEMPERATURE SENSOR	Front LH side of engine compartment near LH headlight assembly	16-3	
B25 ...	FUEL LEVEL SENSOR II	Under LH rear seat	23-2	
B28 ...	GRADIENT MONITOR (DWA)	In LH rear side of luggage compartment		
B40 ...	STEERING ANGLE SENDER	LH footwell		
B41 ...	RIGHT FRONT ACCELERATION SENSOR	RH front of wheel well above		
B48 ...	RIGHT REAR ACCELERATION SENSOR	In RH rear side of luggage compartment	36-3	
B49 ...	LONGITUDINAL ACCELERATION SENSOR	In LH forward side of luggage compartment	35-3	
B205 ..	OIL LEVEL SENSOR	Under LH front of car		
B206 ..	OIL PRESSURE SWITCH	LH side of engine compartment	14-2	
B207 ..	ENGINE COOLANT TEMPERATURE SENSOR	On coolant inlet		
B209 ..	ENGINE COOLANT TEMPERATURE SENSOR (EML)	On coolant inlet		
B210 ..	TEMPERATURE SWITCH	Rear RH side of engine compartment		
B220 ..	CYL. 1-6 CYLINDER IDENTIFICATION SENSOR	Front of engine left		

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COMPONENT LOCATION CHART

COMPONENT		PAGE – FIGURE 7100.0	8500.0
B221	CYL. 7-12 CYLINDER IDENTIFICATION SENSOR	Front of engine right	
B222	CYL. 1-6 CRANKSHAFT POSITION/RPM SENSOR	Front of engine compartment	
B223	CYL. 7-12 CRANKSHAFT POSITION/RPM SENSOR	Front of engine compartment	
B224	CYL. 1-6 AIR TEMPERATURE SENSOR	On coolant inlet	
B225	CYL. 7-12 AIR TEMPERATURE SENSOR	Rear of engine	
B226	CYL. 1-6 MASS AIR FLOW SENSOR	LH side of engine compartment	15-3
B227	CYL. 7-12 MASS AIR FLOW SENSOR	RH side of engine compartment	19-1
B228	ENGINE COOLANT TEMPERATURE SENSOR (DME)	On coolant inlet	
B301	CYL. 1-6 HEATED OXYGEN SENSOR	On catalytic converter	12-1
B302	CYL. 7-12 HEATED OXYGEN SENSOR	On catalytic converter	12-1
B400	MICROPHONE	Center console	
B414	AUTOMATIC AIR RECIRCULATION SENSOR	Front LH side of engine compartment	
B900	JUMPER PLUG	Rear LH side of engine compartment in Front Power Distribution Box	
B9508	PRESSURE SWITCH	RH side of engine compartment under concealing headlight	
C100	CONTACT RING	On steering wheel behind DRIVER'S AIR BAG GENERATOR, G5	
C900	SUPPRESSION FILTER	In upper RH C-pillar	28-1
D100	DATA LINK CONNECTOR	RH side of engine compartment	19-1
E20	UNDERHOOD LIGHT	On underside of engine hood left	14-3
E41	DASH LIGHT	Center of dash	
E42	GLOVE BOX LIGHT	RH side of glove box above	

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0 8500.0
E48	DOOR LOCK HEATER	In upper LH front door	
E51	LEFT WASHER JET HEATER	On underside of engine hood left	14-3
E52	RIGHT WASHER JET HEATER	On underside of engine hood	
E56	DRIVER'S SEATBACK HEATER	In lower LH front seatback	
E57	DRIVER'S SEAT HEATER	Underside of LH front seat	
E58	PASSENGER'S SEAT HEATER	Underside of RH front seat	
E59	PASSENGER'S SEATBACK HEATER	In lower RH front seatback	
E61	LEFT FRONT FOOTWELL LIGHT	LH front door	34-3
E62	RIGHT FRONT FOOTWELL LIGHT	RH front door	
E80	LEFT REAR LIGHT ASSEMBLY II	Underside of trunk lid left	39-3
E81	RIGHT REAR LIGHT ASSEMBLY II	Underside of trunk lid right	39-3
E46z	LEFT REAR LIGHT ASSEMBLY I	In LH rear side of luggage compartment	
E47z	RIGHT REAR LIGHT ASSEMBLY I	In RH rear side of luggage compartment	
F0	FUSIBLE LINK	In RH side of luggage compartment	37-1
F99	FUSIBLE LINK (50A)	In RH side of luggage compartment	37-1
G1	BATTERY	In RH side of luggage compartment	37-1
G2	GENERATOR	LH side of engine compartment under air filter	
G4	LEFT BATTERY II	In LH rear side of luggage compartment behind trim panel	36-1
G5	DRIVER'S AIR BAG GENERATOR	On steering wheel	
G6	PASSENGER'S AIR BAG GAS GENERATOR I	Below RH side of dash	

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COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
G7	PASSENGER'S AIR BAG GAS GENERATOR II	Below RH side of dash		
H38	TELEPHONE TRANSCEIVER	In LH forward side of luggage compartment		
H10z	ACOUSTIC DEVICE	Below RH side of dash		31-2
K1	STARTER RELAY	Rear LH side of engine compartment in Front Power Distribution Box		19-2
K2	HORN RELAY	Rear LH side of engine compartment in Front Power Distribution Box		18-3
K3	UNLOADER RELAY, TERMINAL R	Rear LH side of engine compartment in Front Power Distribution Box		19-2
K4	BLOWER RELAY	Rear LH side of engine compartment in Front Power Distribution Box		19-2
K5	WASHER PUMP RELAY	Rear LH side of engine compartment in Front Power Distribution Box		18-3
K8	AUXILIARY WATER PUMP RELAY	Rear LH side of engine compartment in Front Power Distribution Box		18-3
K9	UNLOADER RELAY, TERMINAL 15	Rear LH side of engine compartment in Front Power Distribution Box		18-1
K10	ABS RELAY	Rear LH side of engine compartment in Front Power Distribution Box		19-3
K12	WIPER PRESSURE CONTROL (ADV) RELAY	Rear LH side of engine compartment in Front Power Distribution Box		19-3
K13	REAR DEFOGGER RELAY	In LH side of luggage compartment Power Distribution Box		35-1
K15	ELECTRIC POWER PROTECTION RELAY	Rear Power Distribution Box in LH side of luggage compartment		35-2
K16	HAZARD FLASHER RELAY	Rear LH side of engine compartment in Front Power Distribution Box		18-1
K19	COMPRESSOR CONTROL RELAY	Rear LH side of engine compartment in Front Power Distribution Box		18-3
K21	NORMAL SPEED RELAY	Rear LH side of engine compartment in Front Power Distribution Box		18-1
K22	HIGH SPEED RELAY	Rear LH side of engine compartment in Front Power Distribution Box		19-3
K25	RIGHT PARK LIGHT/LICENSE PLATE LIGHT RELAY	Below LH side of dash near hood release lever		

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COMPONENT LOCATION CHART

COMPONENT

		PAGE - FIGURE 7100.0	8500.0
K26	LEFT PARK LIGHT RELAY	Below LH side of dash near hood release lever	
K29	INTERIOR LIGHT RELAY	LH side of LH footwell	27-2
K30	ELECTRIC POWER PROTECTION RELAY II	In LH side of luggage compartment	35-1
K31	CIGAR LIGHTER RELAY	In LH side of luggage compartment	35-1
K33	AIR CONDITIONING RELAY	Rear LH side of engine compartment in Front Power Distribution Box	18-2
K36	WIPER RELAY I	Rear LH side of engine compartment in Front Power Distribution Box	19-2
K37	WIPER RELAY II	Rear LH side of engine compartment in Front Power Distribution Box	19-2
K38	WIPER RELAY III	Rear LH side of engine compartment in Front Power Distribution Box	19-2
K39	CONCEALING HEADLIGHTS RELAY	Rear LH side of engine compartment in Front Power Distribution Box	18-1
K42	INTENSIVE WASH RELAY	Rear LH side of engine compartment in Front Power Distribution Box	18-2
K46	HIGH BEAM LIGHT RELAY	Rear LH side of engine compartment in Front Power Distribution Box	19-3
K51	JUMPER PLUG FOR HORN/TELEPHONE	Rear LH side of engine compartment in Front Power Distribution Box	19-3
K60	COMPRESSOR CUT-OFF RELAY	Rear LH side of engine compartment in Front Power Distribution Box	18-3
K61	UNLOADER RELAY, TERMINAL 61	Rear LH side of engine compartment in Front Power Distribution Box	18-2
K67	EDC RELAY	In RH side of luggage compartment	37-2
K70	CENTRAL LOCKING TRUNK LID MOTOR RELAY (ZV)	Rear Power Distribution Box	35-2
K72	CONSUMER CUT-OFF RELAY I	Rear Power Distribution Box	35-2
K73	CONSUMER CUT-OFF RELAY II	In LH side of luggage compartment	35-1
K79	FOGLIGHT RELAY	In LH side of luggage compartment	35-1

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COMPONENT LOCATION CHART

COMPONENT

			PAGE - FIGURE 7100.0	8500.0
K91	ON-BOARD COMPUTER HORN RELAY	Inside box on interior side of RH door sill		
K210	CYL. 1-6 FUEL PUMP RELAY	Rear RH side of engine compartment in E-Box	21-2	
K211	CYL. 7-12 FUEL PUMP RELAY	Rear RH side of engine compartment in E-Box	21-2	
K212	CYL. 1-6 ENGINE CONTROL MODULE RELAY	Rear RH side of engine compartment in E-Box	21-2	
K213	CYL. 7-12 ENGINE CONTROL MODULE RELAY	Rear RH side of engine compartment in E-Box	21-2	
K214	OXYGEN SENSOR RELAY	Rear RH side of engine compartment in E-Box	21-2	
K52z	FLASHER LIGHT RELAY	Rear LH side of engine compartment in Front Power Distribution Box	18-1	
M1	STARTER	LH side of engine compartment		
M2	FUEL PUMP	In RH side of luggage compartment		
M3	WIPER MOTOR	Behind LH fresh air cowl		
M4	WASHER PUMP	RH side of engine compartment on washer fluid reservoir	20-1	
M5	INTENSIVE WASH PUMP	Front RH side of engine compartment near windshield washer reservoir		
M6	WIPER PRESSURE CONTROL MOTOR (ADV)	Behind LH fresh air cowl		
M7	HEADLIGHT/FOG LIGHT WASHER PUMP	Front RH side of engine compartment near windshield washer reservoir	20-2	
M9	AUXILIARY FAN MOTOR	Behind front grille		
M11	CYL. 7-12 FUEL PUMP	In RH side of luggage compartment		
M12	DRIVER'S DOOR LOCK MOTOR	In lower LH front door	33-3	
M13	PASSENGER'S DOOR LOCK MOTOR	In lower RH side of front door	33-3	
M16	GAS FILLER LOCK MOTOR	In RH rear side of luggage compartment	38-2	
M17	TRUNK LOCK MOTOR	Rear of car rear side of luggage compartment		

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COMPONENT LOCATION CHART

COMPONENT

PAGE - FIGURE
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M18 ... LH CONCEALING HEADLIGHT MOTOR ..... Front LH side of engine compartment
M19 ... RH CONCEALING HEADLIGHT MOTOR ..... Front RH side of engine compartment
M20 ... LEFT REAR WINDOW MOTOR ..... Left from LH rear seat behind trim panel
M21 ... DRIVER'S WINDOW MOTOR ..... In lower LH front door 33-1
M22 ... RIGHT REAR WINDOW MOTOR ..... RH side of RH rear seat behind trim panel
M23 ... PASSENGER'S WINDOW MOTOR ..... In lower RH side of front door
M24 ... SUNROOF MOTOR ..... Center of windshield header 28-2
M30 ... BLOWER MOTOR ..... Behind center of cowl
M31 ... LEFT FOOTWELL FLAP MOTOR ..... Below LH side of dash
M32 ... RIGHT FOOTWELL FLAP MOTOR ..... LH side of RH footwell
M33 ... RIGHT VENTILATION FLAP MOTOR ..... LH side of RH footwell
M34 ... DASH VENT MIXING FLAP MOTOR ..... RH side of dash behind glove box RH side of IHKA Plenum
M35 ... DEFROSTER FLAP MOTOR ..... LH side of IHKA Plenum
M36 ... FRESH AIR FLAP MOTOR ..... LH side of IHKA Plenum
M37 ... WATER PUMP ..... Rear LH side of engine compartment
M38 ... LEFT VENTILATION FLAP MOTOR ..... Behind LH fresh air cowl
M39 ... LEFT MIXING FLAP MOTOR ..... Center of dash left of radio
M40 ... RECIRCULATION FLAP MOTOR ..... Below LH side of dash
M50 ... DRIVER'S SEAT CUSHION TILT MOTOR ..... Under LH front seat
M51 ... DRIVER'S SEAT MOVEMENT MOTOR ..... Under LH front seat

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COMPONENT LOCATION CHART

COMPONENT		PAGE - FIGURE 7100.0 8500.0
M52	DRIVER'S SEAT HEIGHT MOTOR	Under LH front seat
M53	DRIVER'S SEATBACK RECLINER MOTOR	In lower LH front seatback
M55	DRIVER'S SEAT LUMBAR SUPPORT MOTOR	In upper LH front seatback
M56	PASSENGER'S SEAT LUMBAR SUPPORT MOTOR	In upper RH front seatback
M58	PASSENGER'S SEATBACK RECLINER MOTOR	In lower RH front seatback
M59	PASSENGER'S SEAT HEIGHT MOTOR	Under RH front seat
M60	PASSENGER'S SEAT MOVEMENT MOTOR	Under RH front seat
M61	PASSENGER'S SEAT CUSHION TILT MOTOR	Under RH front seat
M65	DRIVER'S THIGH SUPPORT MOTOR	Under LH front seat
M66	PASSENGER'S THIGH SUPPORT MOTOR	Under LH front seat
M74	SUN BLIND MOTOR	At back of rear window shelf ... 23-1
M80	LEFT HEADLIGHT WIDENING MOTOR	Front LH side of engine compartment
M81	RIGHT HEADLIGHT WIDENING MOTOR	Front RH side of engine compartment
M82	STEERING COLUMN LENGTH ADJUST MOTOR	Bottom of steering column
M83	STEERING COLUMN ANGLE ADJUST MOTOR	Bottom of steering column
M86	WATER PUMP IN LUGGAGE COMPARTMENT	In spare tire compartment
M201	E-BOX FAN	Rear RH side of engine compartment in E-Box
M202	CYL. 1-6 THROTTLE BODY (EML)	Front of engine left ... 13-3
M203	CYL. 7-12 THROTTLE BODY (EML)	Front of engine right ... 13-3
N1	ANTI-THEFT CONTROL MODULE (DWA)	Inside box on interior side of RH door sill ... 02-1

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COMPONENT LOCATION CHART

COMPONENT

			PAGE - FIGURE 7100.0	8500.0
N1	ANTI-THEFT CONTROL MODULE (DWA)	Inside box on interior side of RH door sill	25-2	
N2	FINAL STAGE UNIT	LH side of RH footwell		
N3	DIMMER	LH side of dash		
N4	ON-BOARD COMPUTER	Center console above		
N6	HEADLIGHT/FOGLIGHT CLEANING MODULE (SRA)	Rear LH side of engine compartment in Front Power Distribution Box	19-3	
N8	ANTENNA AMPLIFIER AM/FM	In upper LH C-pillar	27-3	
N9	RADIO	Center console		
N17	CRASH CONTROL MODULE	Rear LH side of engine compartment in Front Power Distribution Box	18-1	
N20	RADIO RECEIVER	In luggage compartment		
N22	CD CHANGER	In luggage compartment		
N13z	COMPACT INFRARED LOCKING	Behind RH footwell speaker grille	01-1	
N13z	COMPACT INFRARED LOCKING	Behind RH footwell speaker grille	26-2	
N404	DIVERSITY	Center of dash		
N444	FM AMPLIFIER HLO	In upper LH C-pillar		
P90	FRONT POWER DISTRIBUTION BOX	Rear LH side of engine compartment	15-2	
P93	E-BOX	Rear RH side of engine compartment	21-3	
P94	REAR POWER DISTRIBUTION BOX	In LH forward side of luggage compartment	35-3	
P95	AUXILIARY FUSE BOX	LH side of engine compartment	17-2	
R1	MIXING ACTUATOR	Center of dash		
R7	SEATBACK POTENTIOMETER	In lower LH front seatback		

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0 8500.0
R9	SEAT CUSHION MOVEMENT POTENTIOMETER	Under LH front seat	
R10	PEDAL POSITION SENSOR	Below LH side of dash	29-3
R13	HEADLIGHT WIDENING POTENTIOMETER	Center console	32-1
R15	THIGH SUPPORT POTENTIOMETER	Under LH front seat	
R18	STEERING COLUMN ADJUST POTENTIOMETER	Bottom of steering column	
R19	RIGHT REAR QUARTER WINDOW SWITCH (DWA)	Bottom of steering column	
S2	IGNITION SWITCH	On steering column above right	
S4	HORN SWITCH	On steering wheel behind DRIVER'S AIR BAG GENERATOR, G5	
S5	WIPER/WASHER SWITCH	On steering column above	
S6	ASC SWITCH	Center console	32-1
S7	COMBINATION SWITCH	On steering column above left	
S8	LIGHT SWITCH	LH side of dash	
S10	FOG LIGHT SWITCH	LH side of dash	
S11	CRUISE CONTROL SWITCH (EML)	On steering column	
S12	MEMORY MIRRORS CONTROL SWITCH	In upper LH front door	
S13	PASSENGER'S DOOR JAMB SWITCH	In upper RH front door	
S14	DRIVER'S DOOR JAMB SWITCH	In upper LH front door	
S17	MIRROR CONTROL SWITCH	In upper LH front door	
S18	HAZARD SWITCH	Center console	
S19	UNDERHOOD LIGHT SWITCH	Near LH headlight assembly	

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
S20	RADIO ANTI-THEFT SWITCH (DWA)	Behind radio		
S21	ENGINE HOOD SWITCH (DWA)	Near RH headlight assembly		
S26	AUTOMATIC HEATING AND AIR CONDITIONING SWITCH (IHKA)	Center of dash		
S27	INERTIA SWITCH	Below LH side of dash		
S29	BRAKE LIGHT SWITCH	Below LH side of dash	29-2	
S31	PARK BRAKE SWITCH	Below front of console		
S32	CLUTCH SWITCH	Behind LH footwell trim on clutch pedal support bracket		
S36	TEMPERATURE SWITCH	Front RH side of engine compartment	16-2	
S37	GLOVE BOX LIGHT SWITCH	LH side of glove box		
S38	SUNROOF SWITCH	Center of windshield header		
S40	FRONT CONSOLE WINDOW SWITCH ASSEMBLY	LH front door behind door panel	34-2	
S45	LEFT REAR WINDOW LIMIT SWITCH	Left from LH rear seat behind trim panel		
S46	RIGHT REAR WINDOW LIMIT SWITCH	RH side of RH rear seat behind trim panel		
S47	DRIVER'S DOOR LOCK SWITCH	LH front door behind door panel		
S48	DRIVER'S DOOR HANDLE SWITCH	LH front door behind door panel		
S49	PASSENGER'S DOOR LOCK SWITCH	RH front door		
S50	DRIVER'S MEMORY SEAT ADJUSTMENT SWITCH	LH front seat		
S51	DRIVER'S SEAT, SEAT CONTROL SWITCH	LH front seat		
S52	DRIVER'S SEAT LUMBAR SWITCH	LH front seat		

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COMPONENT LOCATION CHART

COMPONENT

PAGE - FIGURE
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S53 ...	DRIVER'S SEAT, SEAT HEATER SWITCH	In rear of console
S54 ...	PASSENGER'S SEAT, SEAT HEATER SWITCH	In rear of console
S55 ...	PASSENGER'S SEAT LUMBAR SUPPORT SWITCH	RH front seat
S56 ...	PASSENGER'S SEAT, SEAT CONTROL SWITCH	RH front seat
S57 ...	MEMORY SEAT MIRRORS SWITCH	LH front seat
S58 ...	DRIVER'S SEAT BELT SWITCH	LH front seat
S64 ...	WASHER FLUID LEVEL SWITCH	RH side of engine compartment on washer fluid reservoir 20-1
S71 ...	LEFT FRONT IMPACT SENSOR	LH side of engine compartment 17-1
S72 ...	RIGHT FRONT IMPACT SENSOR	RH side of engine compartment near windshield washer reservoir
S76 ...	REAR WINDOW DEFOGGER SWITCH	LH side of dash
S77 ...	DRIVER'S MAKEUP MIRROR SWITCH	Above LH sun visor
S78 ...	PASSENGER'S MAKEUP MIRROR SWITCH ..	Above RH sun visor
S79 ...	PASSENGER'S DOOR HANDLE SWITCH	RH front door
S89 ...	DRIVER'S INSIDE DOOR HANDLE SWITCH ..	In lower LH front door
S90 ...	PASSENGER'S INSIDE DOOR HANDLE SWITCH	In upper RH front door
S93 ...	DRIVER'S THIGH SUPPORT SWITCH	LH front seat
S94 ...	PASSENGER'S THIGH SUPPORT SWITCH ...	RH front seat
S96 ...	AIR CONDITIONING PRESSURE SWITCH	RH side of engine compartment under concealing headlight
S97 ...	PASSENGER'S WINDOW SWITCH	RH front door
S99 ...	PASSENGER'S WINDOW SWITCH (DWA)	In upper RH front door

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COMPONENT LOCATION CHART

COMPONENT		PAGE - FIGURE 7100.0	8500.0
S100	DRIVER'S WINDOW MONITORING SWITCH (DWA)	In lower LH front door	
S101	RIGHT REAR WINDOW MONITORING SWITCH (DWA)	In upper RH rear door	
S102	LEFT REAR WINDOW MONITORING SWITCH (DWA)	In upper LH rear door	
S105	EDC SWITCH	Center console	
S110	SUN BLIND SWITCH	Center console	
S113	GLOVE BOX LIGHT SWITCH II	LH side of glove box	
S117	TRUNK LID LOCKING SWITCH	Underside of trunk lid	39-2
S118	GLOVE BOX CENTRAL LOCKING SWITCH	LH side of glove box	
S119	ACCESSORY TABLE MICROSWITCH	On steering column above left	
S136	WASHER FLUID LEVEL SWITCH	In luggage compartment in spare tire compartment	
S302	BACK-UP SWITCH	On RH side of transmission	
S8515	TRANSMISSION RANGE LEVER LIGHT	Center console	
S8517	PROGRAM SWITCH	Center console near gearshift lever	
S8518	TRANSMISSION RANGE SELECTOR LEVER LIGHT	Center console near gearshift lever	
S8522	SHIFT LOCK	Center console near gearshift lever	
T201A	CYL. 1-6 IGNITION COIL	RH side of engine compartment	19-1
T202A	CYL. 7-12 IGNITION COIL	LH side of engine compartment	17-2
U4	TELEPHONE HANDSET	Center console	
V1	ANTI-THEFT LED INDICATOR (DWA)	Center console	

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
V4	DAYTIME RUNNING LIGHTS CODING DIODE	Inside box on interior side of LH door sill		
V5	IR/DWA LED	Center of dash		
X2	BATTERY B+ START POINT	LH side of engine compartment under Power Distribution Box		
X3	B+ JUNCTION POINT	LH side of engine compartment under Power Distribution Box		
X7	CONNECTOR (55-PINS, NATURAL)	Inside box on interior side of LH door sill	25-1	00-2
X12	CONNECTOR (20-PINS, WHITE)	Below LH side of dash	30-3	02-1
X13	CONNECTOR (30-PINS, BLACK)	LH footwell	26-1	01-1
X14	CONNECTOR (30-PINS, WHITE)	LH footwell	26-1	01-1
X16	CONNECTOR (26-PINS, BLACK)	LH side of dash		01-2
X20	CONNECTOR (25-PINS, GRAY)	Rear RH side of engine compartment	21-3	01-5
X21	CONNECTOR (25-PINS, BLUE)	Rear RH side of engine compartment	21-3	01-5
X25	CONNECTOR (4-PINS, BLACK)	RH side of engine compartment	20-1	10-1
X31	CONNECTOR (12-PINS, BLACK)	LH side of engine compartment under concealing headlight		03-4
X32	CONNECTOR (12-PINS, WHITE)	Below LH side of dash	30-1	04-3
X33	CONNECTOR (12-PINS, BLACK)	Below LH side of dash		04-3
X36	CONNECTOR (21-PINS, BLACK)	Below center console	31-3	01-6
X38	CONNECTOR (20-PINS, BLACK)	Below LH side of dash	30-3	02-1
X39	CONNECTOR (26-PINS, GREEN)	Below LH side of dash	29-1	01-2
X40	CONNECTOR (26-PINS, BROWN)	Below LH side of dash	29-1	01-2
X41	CONNECTOR (26-PINS, BLUE)	Below LH side of dash	29-1	01-2

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X42	CONNECTOR (26-PINS, BLACK)	Below LH side of dash	29-1	01-2
X43	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		05-4
X52	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		05-4
X53	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		05-4
X54	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		05-4
X55	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		05-4
X57	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		05-4
X58	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		05-4
X61	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		05-4
X63	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		05-4
X64	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		05-4
X65	CONNECTOR (9-PINS, BROWN)	Rear LH side of engine compartment in Front Power Distribution Box		05-4
X69	CONNECTOR (25-PINS, BLACK)	Rear RH side of engine compartment	21-3	01-5
X72	CONNECTOR (8-PINS, WHITE)	Below LH side of dash	30-1	06-3
X73	CONNECTOR (8-PINS, WHITE)	Below LH side of dash	29-3	06-4
X74	CONNECTOR (12-PINS, BLUE)	Below RH side of dash	31-1	03-5
X77	CONNECTOR (10-PINS, BLACK)	LH side of LH footwell		04-6
X78	CONNECTOR (4-PINS, BLACK)	Below LH side of dash	29-2	09-2
X81	CONNECTOR (3-PINS, ORANGE)	LH side of engine compartment	17-1	11-6
X82	CONNECTOR (3-PINS, BLACK)	Front of engine compartment on auxiliary fan	16-1	11-4

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COMPONENT LOCATION CHART

COMPONENT			PAGE 7100.0	FIGURE 8500.0
X83	CONNECTOR (3-PINS, YELLOW)	LH side of LH footwell		11-5
X84	CONNECTOR (3-PINS, YELLOW)	LH side of LH footwell		11-3
X85	CONNECTOR (3-PINS, BLACK)	Rear LH side of engine compartment	15-1	11-4
X86	CONNECTOR (3-PINS, ORANGE)	RH side of engine compartment		11-6
X87	CONNECTOR (3-PINS, BLACK)	Front RH side of engine compartment	16-2	11-4
X95	CONNECTOR (3-PINS, BLACK)	Front RH side of engine compartment under air filter	16-2	11-4
X101	CONNECTOR (2-PINS, BLACK)	On underside of engine hood left		
X102	CONNECTOR (1-PINS, BLACK)	Rear LH side of engine compartment		
X103	CONNECTOR (1-PINS, BLACK)	Rear LH side of engine compartment		
X105	CONNECTOR (2-PINS, BLACK)	On underside of engine hood left	14-3	
X106	CONNECTOR (1-PINS, (---))	On underside of engine hood		
X107	CONNECTOR (2-PINS, GRAY)	RH side of engine compartment on washer fluid reservoir	20-1	
X109	CONNECTOR (2-PINS, BLACK)	RH side of engine compartment on washer fluid reservoir	20-1	
X110	CONNECTOR (2-PINS, GRAY)	RH side of engine compartment on washer fluid reservoir	20-2	
X111	CONNECTOR (2-PINS, BLACK)	Rear LH side of engine compartment		
X113	CONNECTOR (2-PINS, WHITE)	RH front of wheel well		
X114	CONNECTOR (3-PINS, GRAY)	Behind LH front wheel		11-1
X118	CONNECTOR (2-PINS, BLACK)	Behind LH front wheel	10-2	
X119	CONNECTOR (2-PINS, BLACK)	Rear LH side of engine compartment near brake fluid reservoir	15-2	
X120	CONNECTOR (2-PINS, BLACK)	Under LH front of car		

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X121	CONNECTOR (2-PINS, WHITE)	Below LH side of dash	29-2	
X122	CONNECTOR (2-PINS, BLACK)	Rear LH side of engine compartment	15-1	
X126	CONNECTOR (2-PINS, WHITE)	RH side of engine compartment under concealing headlight		
X128	CONNECTOR (7-PINS, BLACK)	Near LH headlight assembly front of vehicle	09-1	06-6
X130	CONNECTOR (7-PINS, BLACK)	LH side of engine compartment	17-3	06-6
X132	CONNECTOR (2-PINS, BLACK)	Front of car		
X133	CONNECTOR (2-PINS, BLACK)	Front of car		
X135	CONNECTOR (7-PINS, BLACK)	Front RH side of engine compartment	20-2	06-6
X137	CONNECTOR (7-PINS, BLACK)	Near RH headlight assembly front of vehicle	09-2	06-6
X145	CONNECTOR (2-PINS, BLACK)	LH side of engine compartment	14-2	
X161	CONNECTOR (2-PINS, BLACK)	Near LH headlight assembly	10-1	
X164	CONNECTOR (1-PINS, (---))	RH side of engine compartment under air filter		
X165	GROUND	On steering column		
X167	GROUND	LH side of engine compartment	07-1	
X167	GROUND	LH side of engine compartment	17-3	
X168	CONNECTOR (1-PINS, BLACK)	On steering column		
X170	CONNECTOR (1-PINS, (---))	Front LH side of engine compartment under concealing headlight		
X173	GROUND	Front RH side of engine compartment (headlights removed)	05-1	
X173	GROUND	Front RH side of engine compartment (headlights removed)	20-3	
X252	CONNECTOR (26-PINS, BLACK)	Inside box on interior side of RH door sill	25-3	01-2

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X253	CONNECTOR (26-PINS, BLACK)	Below LH side of dash	30-3	01-2
X254	CONNECTOR (26-PINS, YELLOW)	Below LH side of dash	30-3	01-2
X256	CONNECTOR (26-PINS, BLACK)	Ahead of RH front door		01-3
X257	CONNECTOR (26-PINS, BLACK)	Ahead of LH front door		01-3
X258	CONNECTOR (20-PINS, BLACK)	Inside box on interior side of LH door sill	25-1	02-1
X259	CONNECTOR (26-PINS, BLACK)	Inside box on interior side of LH door sill	25-1	01-2
X262	CONNECTOR (26-PINS, YELLOW)	Behind RH footwell speaker grille	26-2	01-2
X263	CONNECTOR (26-PINS, WHITE)	In RH side of luggage compartment	37-2	01-2
X272	CONNECTOR (6-PINS, BLACK)	Left from LH rear seat behind trim panel	24-1	07-6
X275	CONNECTOR (12-PINS, WHITE)	Underside of LH front seat	22-3	04-1
X275	CONNECTOR (12-PINS, WHITE)	Under LH front seat	24-3	04-1
X279	CONNECTOR (12-PINS, WHITE)	Under RH front seat		04-1
X280	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment In Front Power Distribution Box		05-4
X281	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		05-4
X283	CONNECTOR (4-PINS, BLACK)	LH side of engine compartment	17-3	09-4
X284	CONNECTOR (4-PINS, BLACK)	Front RH side of engine compartment	20-2	09-4
X287	CONNECTOR (9-PINS, BLACK)	In LH side of luggage compartment		05-4
X291	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment In Front Power Distribution Box		05-4
X292	CONNECTOR (9-PINS, BLACK)	In LH side of luggage compartment Power Distribution Box		05-4
X294	CONNECTOR (9-PINS, BLACK)	Rear Power Distribution Box In LH side of luggage compartment		05-4

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COMPONENT LOCATION CHART

COMPONENT

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X295	CONNECTOR (8-PINS, BLACK)	Below LH side of dash	30-1	06-3
X296	CONNECTOR (6-PINS, WHITE)	In LH rear side of luggage compartment behind trim panel		07-6
X301	CONNECTOR (26-PINS, WHITE)	Inside box on interior side of RH door sill	25-2	01-2
X306	CONNECTOR (30-PINS, BLUE)	LH footwell	26-1	01-1
X307	GROUND	LH side of LH footwell	06-2	
X307	GROUND	LH side of LH footwell	27-2	
X310	CONNECTOR (6-PINS, BLACK)	Behind glove box right		07-6
X311	CONNECTOR (2-PINS, BLACK)	Rear of car		
X312	CONNECTOR (6-PINS, BLACK)	In RH rear side of luggage compartment	38-2	08-2
X316	CONNECTOR (6-PINS, WHITE)	LH front door behind door panel	34-2	07-2
X317	CONNECTOR (6-PINS, BLACK)	RH front door		07-2
X318	CONNECTOR (6-PINS, BLACK)	In RH rear side of luggage compartment	38-1	07-6
X319	CONNECTOR (6-PINS, BLACK)	In LH rear side of luggage compartment behind trim panel		07-6
X321	CONNECTOR (4-PINS, BLACK)	Below center console	31-3	09-6
X322	CONNECTOR (8-PINS, BLACK)	Below center console	31-3	06-3
X323	CONNECTOR (6-PINS, WHITE)	Center of windshield header	28-2	07-1
X331	CONNECTOR (5-PINS, BLACK)	Inside box on interior side of RH door sill	25-3	08-4
X332	CONNECTOR (26-PINS, WHITE)	Below LH side of dash	30-3	01-2
X333	CONNECTOR (12-PINS, BLACK)	Rear LH side of engine compartment	15-2	03-3
X335	CONNECTOR (4-PINS, BLACK)	Inside box on interior side of RH door sill	25-3	10-3

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X336	CONNECTOR (4-PINS, WHITE)	Center of windshield header	28-2	09-3
X351	CONNECTOR (2-PINS, BLACK)	In lower RH side of front door	33-3	
X352	CONNECTOR (2-PINS, BLACK)	In lower LH front door	33-3	
X355	CONNECTOR (2-PINS, BLACK)	In upper RH C-pillar		
X356	CONNECTOR (2-PINS, BLACK)	In upper LH C-pillar	27-3	
X371	CONNECTOR (2-PINS, BLACK)	Near RH headlight assembly	09-3	
X372	CONNECTOR (2-PINS, WHITE)	Behind RH fresh air cowl on ANTI-THEFT HORN (DWA), H1		
X376	CONNECTOR (2-PINS, GRAY)	Behind LH rear wheel		
X377	CONNECTOR (2-PINS, WHITE)	Under rear of car	12-2	
X379	CONNECTOR (1-PINS, BLACK)	In upper LH C-pillar	27-3	
X380	CONNECTOR (1-PINS, BLACK)	In upper RH C-pillar	28-1	
X381	CONNECTOR (2-PINS, BLACK)	DRIVER'S MAKEUP MIRROR LIGHT, E35		
X382	CONNECTOR (2-PINS, BLACK)	PASSENGER'S MAKEUP MIRROR LIGHT, E36		
X383	CONNECTOR (2-PINS, BLACK)	Under rear of car	12-2	
X388	CONNECTOR (2-PINS, BLACK)	Below LH side of dash		
X389	CONNECTOR (2-PINS, BLACK)	LEFT FRONT AUXILIARY TURN LIGHT, H9		
X390	CONNECTOR (1-PINS, BLACK)	RIGHT FRONT AUXILIARY TURN LIGHT, H8		
X392	CONNECTOR (1-PINS, BLUE)	Inside box on interior side of RH door sill	25-2	
X393	CONNECTOR (8-PINS, BLACK)	In LH rear side of luggage compartment behind trim panel	36-1	06-4
X394	CONNECTOR (12-PINS, BLACK)	Underside of LH front seat	22-3	04-3

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COMPONENT LOCATION CHART

COMPONENT			PAGE – FIGURE 7100.0	8500.0
X394	CONNECTOR (12-PINS, BLACK)	Under LH front seat	24-3	04-3
X395	CONNECTOR (1-PINS, YELLOW)	Inside box on interior side of RH door sill	25-2	
X400	CONNECTOR (8-PINS, BLACK)	In LH forward side of luggage compartment	35-3	06-3
X401	CONNECTOR (1-PINS, BLACK)	Above LH sun visor DRIVER'S MAKEUP MIRROR SWITCH, S77		
X402	CONNECTOR (1-PINS, BLACK)	Above RH sun visor PASSENGER'S MAKEUP MIRROR SWITCH, S78		
X405	CONNECTOR (3-PINS, BLUE)	Behind LH front wheel		11-1
X406	CONNECTOR (3-PINS, BLUE)	RH front of wheel well		11-1
X407	CONNECTOR (3-PINS, BLUE)	Behind LH rear wheel		11-1
X408	CONNECTOR (3-PINS, BLUE)	Under rear of car	12-2	11-1
X413	CONNECTOR (2-PINS, BLACK)	Below LH side of dash		
X423	CONNECTOR (2-PINS, BLACK)	Below front of console		
X490	GROUND	Inside box on interior side of LH door sill	06-3	
X490	GROUND	Inside box on interior side of LH door sill	25-1	
X492	GROUND	LH side of LH footwell	06-2	
X492	GROUND	LH side of LH footwell	27-2	
X494	GROUND	In RH side of luggage compartment	07-2	
X494	GROUND	In RH side of luggage compartment	38-1	
X497	GROUND	In LH rear side of luggage compartment	05-2	
X501	CONNECTOR (18-PINS, BLACK)	Center console		02-3
X503	CONNECTOR (12-PINS, BLACK)	LH side of dash LIGHT SWITCH, S8		04-2

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X504	CONNECTOR (12-PINS, BLACK)	LH side of dash FOG LIGHT SWITCH, S10		04-2
X506	CONNECTOR (12-PINS, WHITE)	Below center console	32-2	04-3
X509	CONNECTOR (9-PINS, WHITE)	Below LH side of dash RIGHT PARK LIGHT/LICENSE PLATE LIGHT RELAY, K25		05-4
X512	CONNECTOR (12-PINS, BLACK)	Behind glove box		04-1
X514	CONNECTOR (4-PINS, BLACK)	Center of dash		09-2
X516	CONNECTOR (5-PINS, BLACK)	Center console		08-5
X517	CONNECTOR (4-PINS, BLACK)	LH side of dash DIMMER, N3		09-2
X518	CONNECTOR (4-PINS, BLACK)	Below RH side of dash under glove box	31-2	09-2
X521	CONNECTOR (6-PINS, BLUE)	Center console on	32-1	07-2
X522	CONNECTOR (3-PINS, WHITE)	Below RH side of dash under glove box	31-2	10-6
X523	CONNECTOR (6-PINS, BLACK)	Inside box on interior side of LH door sill		08-3
X529	CONNECTOR (6-PINS, BLACK)	Center console		08-3
X531	CONNECTOR (2-PINS, WHITE)	FRONT CIGAR LIGHTER, E28		
X532	CONNECTOR (2-PINS, BLACK)	FRONT CIGAR LIGHTER LIGHT, E29		
X537	CONNECTOR (2-PINS, BLACK)	LH front door behind door panel LEFT FRONT MIDRANGE SPEAKER, H55	34-3	
X538	CONNECTOR (2-PINS, BLACK)	RIGHT FRONT MIDRANGE SPEAKER, H54		
X539	CONNECTOR (2-PINS, WHITE)	Below center console	32-2	
X540	CONNECTOR (2-PINS, BLACK)	RH side of dash behind glove box RH side of IHKA Plenum		
X541	CONNECTOR (1-PINS, BLACK)	RH side of glove box		
X542	CONNECTOR (2-PINS, BLACK)	RH side of dash behind glove box RH side of IHKA Plenum		

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X543	CONNECTOR (2-PINS, BLACK)	DASH LIGHT, E41		
X546	CONNECTOR (2-PINS, WHITE)	Below center console	32-2	
X548	CONNECTOR (2-PINS, ORANGE)	Below RH side of dash		
X549	CONNECTOR (2-PINS, ORANGE)	Below RH side of dash		
X601	CONNECTOR (26-PINS, YELLOW)	Underside of LH front seat	22-3	01-4
X602	CONNECTOR (26-PINS, WHITE)	Underside of LH front seat	22-1	01-4
X603	CONNECTOR (12-PINS, BLACK)	LH front seat		04-4
X604	CONNECTOR (12-PINS, BLACK)	RH front seat		04-4
X605	CONNECTOR (12-PINS, BLACK)	In LH forward side of luggage compartment	39-1	04-1
X606	CONNECTOR (12-PINS, WHITE)	In LH forward side of luggage compartment	39-1	04-1
X607	CONNECTOR (12-PINS, WHITE)	Behind dashboard behind glove box		03-6
X610	CONNECTOR (26-PINS, WHITE)	Between front footwells		01-2
X611	CONNECTOR (26-PINS, BLACK)	Between front footwells		01-2
X612	CONNECTOR (26-PINS, BLUE)	Center of dash		01-2
X613	CONNECTOR (26-PINS, BLUE)	Between front footwells		01-2
X614	CONNECTOR (26-PINS, YELLOW)	Between front footwells		01-2
X621	CONNECTOR (10-PINS, BLACK)	Ahead of RH front door		05-3
X622	CONNECTOR (10-PINS, BLACK)	Ahead of LH front door		05-2
X623	CONNECTOR (10-PINS, BLACK)	In upper LH front door	33-2	05-1
X624	CONNECTOR (10-PINS, BLACK)	In upper LH front door	33-2	05-1

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COMPONENT LOCATION CHART

COMPONENT

			PAGE – FIGURE 7100.0	8500.0
X625	CONNECTOR (6-PINS, WHITE)	LH front door behind door panel	34-2	08-2
X627	CONNECTOR (2-PINS, BLACK)	Center of windshield header		
X638	CONNECTOR (3-PINS, BLACK)	Under RH rear seat	23-3	11-4
X641	CONNECTOR (6-PINS, BLACK)	In lower RH side of front door		07-5
X643	CONNECTOR (6-PINS, BLUE)	Near SUNROOF SWITCH, S38	28-2	08-2
X648	CONNECTOR (6-PINS, BLACK)	Underside of LH front seat	24-2	08-2
X649	CONNECTOR (6-PINS, WHITE)	Underside of LH front seat	24-2	08-2
X650	CONNECTOR (6-PINS, BLACK)	MEMORY SEAT MIRRORS SWITCH, S57		07-2
X651	CONNECTOR (6-PINS, YELLOW)	DRIVER'S SEAT, SEAT HEATER SWITCH, S53		07-2
X652	CONNECTOR (4-PINS, BLACK)	DRIVER'S SEAT LUMBAR SWITCH, S52		09-2
X654	CONNECTOR (6-PINS, BLACK)	Underside of LH front seat	22-1	08-2
X655	CONNECTOR (6-PINS, BLUE)	Underside of LH front seat	22-2	08-2
X656	CONNECTOR (6-PINS, GREEN)	Underside of LH front seat	22-1	08-2
X657	CONNECTOR (6-PINS, BLUE)	Underside of LH front seat	22-2	08-2
X658	CONNECTOR (6-PINS, YELLOW)	PASSENGER'S SEAT, SEAT HEATER SWITCH, S54		07-2
X659	CONNECTOR (4-PINS, BLACK)	PASSENGER'S SEAT LUMBAR SUPPORT SWITCH, S55		09-2
X660	CONNECTOR (6-PINS, BLACK)	In lower LH front door		07-5
X661	CONNECTOR (6-PINS, GRAY)	Behind center of dashboard left		08-1
X662	CONNECTOR (6-PINS, GRAY)	Below LH side of dash		08-1
X663	CONNECTOR (6-PINS, GRAY)	LH side of IHKA Plenum		08-1

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X664	CONNECTOR (6-PINS, GRAY)	LH side of IHKA Plenum		08-1
X666	CONNECTOR (6-PINS, GRAY)	Center of dash left of radio		08-1
X667	CONNECTOR (6-PINS, GRAY)	Below LH side of dash		08-1
X668	CONNECTOR (6-PINS, GRAY)	LH side of RH footwell		08-1
X669	CONNECTOR (6-PINS, GRAY)	RH side of dash behind glove box		08-1
X670	CONNECTOR (6-PINS, GRAY)	Behind center of dashboard right		08-1
X671	CONNECTOR (5-PINS, BLACK)	LH side of RH footwell		08-4
X672	CONNECTOR (4-PINS, BLACK)	In luggage compartment		09-5
X675	CONNECTOR (4-PINS, WHITE)	In luggage compartment		08-6
X676	CONNECTOR (4-PINS, BLACK)	In luggage compartment		08-6
X678	CONNECTOR (12-PINS, WHITE)	Underside of LH front seat	22-3	04-3
X678	CONNECTOR (12-PINS, WHITE)	Under LH front seat	24-3	04-3
X679	CONNECTOR (2-PINS, WHITE)	Under LH rear seat	23-2	
X682	CONNECTOR (3-PINS, BLACK)	Center of dash		10-5
X684	CONNECTOR (3-PINS, BLACK)	RH front door right		11-4
X685	CONNECTOR (3-PINS, BLACK)	In upper LH front door left	34-1	11-4
X686	CONNECTOR (3-PINS, BLUE)	Underside of LH front seat	22-3	10-4
X690	CONNECTOR (3-PINS, BLUE)	Underside of LH front seat	24-2	10-4
X692	CONNECTOR (3-PINS, BLACK)	Center of dash		12-2
X695	CONNECTOR (3-PINS, BLACK)	In LH rear side of luggage compartment	38-3	11-6

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COMPONENT LOCATION CHART

COMPONENT

			PAGE 7100.0	FIGURE 8500.0
X701	CONNECTOR (2-PINS, BLACK)	Behind LH footwell speaker grille	27-2	
X706	CONNECTOR (2-PINS, BLACK)	CASSETTE TAPE PLAYER LIGHT, E45		
X709	CONNECTOR (2-PINS, BLACK)	LEFT LICENSE PLATE LIGHT, E43		
X710	CONNECTOR (2-PINS, BLACK)	RIGHT LICENSE PLATE LIGHT, E44		
X711	CONNECTOR (1-PINS, BLACK)	TRUNK LID SWITCH, S61		
X712	CONNECTOR (1-PINS, BLACK)	TRUNK LID LIGHT, E33		
X713	CONNECTOR (2-PINS, BLACK)	Behind RH rear wheel		
X714	CONNECTOR (4-PINS, BLACK)	RH side of RH rear seat behind trim panel	24-1	09-2
X715	CONNECTOR (2-PINS, BLACK)	Left from LH rear seat behind trim panel	24-1	
X720	CONNECTOR (4-PINS, BLACK)	Left from LH rear seat behind trim panel		09-2
X721	CONNECTOR (2-PINS, BLACK)	RH side of RH rear seat behind trim panel		
X726	CONNECTOR (2-PINS, BLACK)	Under LH front seat		
X727	CONNECTOR (2-PINS, WHITE)	Under LH front seat		
X728	CONNECTOR (2-PINS, WHITE)	Under LH front seat		
X729	CONNECTOR (2-PINS, BLACK)	In lower LH front seatback		
X734	CONNECTOR (2-PINS, BLACK)	Under RH front seat		
X735	CONNECTOR (2-PINS, WHITE)	Under RH front seat		
X736	CONNECTOR (2-PINS, BLACK)	In lower RH front seatback		
X737	CONNECTOR (2-PINS, WHITE)	Under RH front seat		
X742	CONNECTOR (2-PINS, YELLOW)	RH front door		

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X744	CONNECTOR (6-PINS, BLACK)	In lower RH side of front door		07-5
X745	CONNECTOR (2-PINS, BLACK)	In upper RH C-pillar	28-1	
X747	CONNECTOR (2-PINS, YELLOW)	In upper LH front door left	34-1	
X748	CONNECTOR (2-PINS, WHITE)	In lower LH front door behind door panel	34-3	
X749	CONNECTOR (6-PINS, BLACK)	In lower LH front door	33-1	07-5
X751	CONNECTOR (2-PINS, WHITE)	In upper LH front door left	34-1	
X752	CONNECTOR (2-PINS, GRAY)	In upper LH front door left	34-1	
X753	CONNECTOR (2-PINS, BLACK)	In lower LH front door behind door panel	34-3	
X765	CONNECTOR (2-PINS, NATURAL)	Below RH side of dash behind glove box		
X770	CONNECTOR (2-PINS, YELLOW)	Front LH side of engine compartment	16-3	
X771	CONNECTOR (2-PINS, BLACK)	RH side of LH footwell		
X772	CONNECTOR (2-PINS, WHITE)	Center console left behind radio		
X773	CONNECTOR (2-PINS, WHITE)	Center console right behind radio		
X774	CONNECTOR (2-PINS, GRAY)	Behind center of cowl under RH side of windshield		
X778	CONNECTOR (2-PINS, BLACK)	Underside of LH front seat	22-2	
X779	CHARGING SOCKET	LH side of glove box		
X781	CONNECTOR (2-PINS, ORANGE)	Below RH side of dash		
X782	CONNECTOR (2-PINS, ORANGE)	Below RH side of dash		
X783	CONNECTOR (2-PINS, ORANGE)	Bottom of steering column		
X784	CONNECTOR (12-PINS, BLACK)	Below RH side of dash	31-1	03-5

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X811	GROUND	RH side of LH footwell		
X816	CONNECTOR (1-PINS, BLACK)	Behind center of cowl		
X817	CONNECTOR (1-PINS, BLACK)	Behind center of cowl		
X818	GROUND	Below LH side of dash	08-2	
X818	GROUND	Below LH side of dash	29-3	
X820	GROUND	In LH rear side of luggage compartment behind trim panel	05-3	
X820	GROUND	In LH rear side of luggage compartment behind trim panel	36-1	
X848	CONNECTOR (4-PINS, GREEN)	At back of rear window shelf	23-1	10-3
X881	CONNECTOR (6-PINS, WHITE)	PASSENGER'S THIGH SUPPORT SWITCH, S94		08-2
X882	CONNECTOR (2-PINS, BLACK)	Under LH front seat		
X883	CONNECTOR (2-PINS, BLACK)	Under RH front seat		
X884	CONNECTOR (3-PINS, BLUE)	Under LH front seat		10-4
X886	CONNECTOR (6-PINS, WHITE)	DRIVER'S THIGH SUPPORT SWITCH, S93		08-2
X887	CONNECTOR (26-PINS, BLACK)	In lower LH front door	32-3	01-2
X889	CONNECTOR (26-PINS, WHITE)	In upper RH front door	32-3	01-2
X898	CONNECTOR (6-PINS, BLACK)	REAR WINDOW DEFOGGER SWITCH, S76		07-2
X909	CONNECTOR (2-PINS, GRAY)	RH front door right		
X910	B+ JUNCTION POINT	Rear LH side of engine compartment	15-1	
X911	STARTER JUNCTION POINT	Rear RH side of engine compartment near shock tower	04-1	
X911	STARTER JUNCTION POINT	Rear RH side of engine compartment near shock tower	12-3	

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X916	CONNECTOR (5-PINS, BLACK)	Center of windshield header	28-3	08-4
X917	CONNECTOR (6-PINS, BLACK)	Center of windshield header	28-3	07-2
X924	CONNECTOR (6-PINS, BLACK)	Underside of trunk lid left	39-3	07-6
X925	CONNECTOR (6-PINS, BLACK)	Underside of trunk lid right	39-3	07-6
X932	CONNECTOR (2-PINS, WHITE)	In lower LH front door	33-3	
X933	CONNECTOR (2-PINS, GRAY)	In lower RH side of front door	33-3	
X936	CONNECTOR (2-PINS, WHITE)	In lower LH front door	32-3	
X936	CONNECTOR (2-PINS, WHITE)	In lower LH front door	34-3	
X937	CONNECTOR (2-PINS, WHITE)	RH front door	32-3	
X941	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		05-4
X945	CONNECTOR (10-PINS, WHITE)	In RH side of luggage compartment	37-2	04-6
X947	CONNECTOR (6-PINS, BLACK)	Center console		07-2
X949	CONNECTOR (5-PINS, BLACK)	At back of rear window shelf	23-1	08-4
X955	GROUND	In LH rear side of luggage compartment behind trim panel	05-3	
X955	GROUND	In LH rear side of luggage compartment behind trim panel	36-1	
X980	SPLICE	RH side of LH footwell	26-3	
X998	CONNECTOR (2-PINS, WHITE)	RH DRIVER'S SEATBACK SWITCH, S103		
X999	CONNECTOR (2-PINS, WHITE)	LH DRIVER'S SEATBACK SWITCH, S104		
X1001	CONNECTOR (4-PINS, BLACK)	In RH rear side of luggage compartment	37-3	09-2
X1002	CONNECTOR (4-PINS, BLACK)	In LH rear side of luggage compartment	36-2	09-2

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X1003	CONNECTOR (12-PINS, BLACK)	Below center console	31-3	04-3
X1010	CONNECTOR (2-PINS, BLACK)	RH side of engine compartment under concealing headlight		
X1011	CONNECTOR (2-PINS, GRAY)	RH side of engine compartment on washer fluid reservoir	20-2	
X1021	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		05-4
X1086	CONNECTOR (9-PINS, BLACK)	In LH side of luggage compartment		05-4
X1165	GROUND	Front LH side of engine compartment		
X1204	CONNECTOR (2-PINS, WHITE)	Left from LH rear seat behind trim panel	24-1	
X1205	CONNECTOR (2-PINS, WHITE)	RH side of RH rear seat behind trim panel		
X1229	CONNECTOR (4-PINS, BLACK)	Center of dash behind radio		10-3
X1230	CONNECTOR (4-PINS, WHITE)	Left from LH rear seat behind trim panel	24-1	09-3
X1372	CONNECTOR (2-PINS, BLACK)	LH side of glove box		
X1375	CONNECTOR (2-PINS, BLACK)	LH side of glove box		
X1376	CONNECTOR (9-PINS, BLACK)	Rear Power Distribution Box		05-4
X1377	CONNECTOR (2-PINS, BLACK)	Underside of trunk lid	39-2	
X1426	CONNECTOR (1-PINS, BROWN)	Below RH side of dash		
X3210	CONNECTOR (26-PINS, BLUE)	Behind RH footwell speaker grille	26-2	01-4
X3211	CONNECTOR (4-PINS, BLACK)	Front LH side of engine compartment	16-1	10-2
X6002	CONNECTOR (20-PINS, BLACK)	RH side of engine compartment	19-1	02-2
X6004	CONNECTOR (55-PINS, BLACK)	Rear RH side of engine compartment in E-Box		00-2
X6010	CONNECTOR (88-PINS, BLACK)	Rear RH side of engine compartment in E-Box		00-1

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COMPONENT LOCATION CHART

COMPONENT			PAGE 7100.0	FIGURE 8500.0
X6020	CONNECTOR (88-PINS, BLACK)	Rear RH side of engine compartment in E-Box		00-1
X6099	CONNECTOR (1-PINS, BLACK)	Front of engine left		
X6101	CONNECTOR (2-PINS, BLACK)	LH side of engine		
X6102	CONNECTOR (2-PINS, BLACK)	LH side of engine		
X6103	CONNECTOR (2-PINS, BLACK)	LH side of engine		
X6104	CONNECTOR (2-PINS, BLACK)	LH side of engine		
X6105	CONNECTOR (2-PINS, BLACK)	LH side of engine		
X6106	CONNECTOR (2-PINS, BLACK)	LH side of engine		
X6107	CONNECTOR (2-PINS, BLACK)	RH side of engine		
X6108	CONNECTOR (2-PINS, BLACK)	RH side of engine		
X6109	CONNECTOR (2-PINS, BLACK)	RH side of engine		
X6110	CONNECTOR (2-PINS, BLACK)	RH side of engine		
X6111	CONNECTOR (2-PINS, BLACK)	RH side of engine		
X6112	CONNECTOR (2-PINS, BLACK)	RH side of engine		
X6121	CONNECTOR (2-PINS, BLACK)	RH side of engine compartment under air filter	19-1	
X6122	CONNECTOR (2-PINS, WHITE)	RH side of engine compartment under air filter	19-1	
X6210	CONNECTOR (4-PINS, GRAY)	On catalytic converter under center of car	12-1	10-1
X6211	CONNECTOR (3-PINS, BLACK)	Front of engine left	14-1	12-1
X6212	CONNECTOR (3-PINS, BLACK)	Front of engine compartment	14-1	12-1
X6215	CONNECTOR (2-PINS, BLACK)	On coolant inlet		

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COMPONENT LOCATION CHART

COMPONENT

			PAGE - FIGURE 7100.0	8500.0
X6216	CONNECTOR (7-PINS, BLACK)	LH side of engine compartment	15-3	06-5
X6220	CONNECTOR (4-PINS, GRAY)	On catalytic converter under center of car	12-1	10-1
X6221	CONNECTOR (3-PINS, BLACK)	Front of engine	14-1	12-1
X6222	CONNECTOR (3-PINS, BLACK)	Front of engine	14-1	12-1
X6225	CONNECTOR (2-PINS, BLACK)	Rear of engine		
X6226	CONNECTOR (7-PINS, BLACK)	RH side of engine compartment		06-5
X6230	CONNECTOR (3-PINS, BLACK)	Under LH front of car	11-2	12-1
X6232	CONNECTOR (2-PINS, BLACK)	On coolant inlet		
X6234	CONNECTOR (2-PINS, WHITE)	On coolant inlet		
X6235	CONNECTOR (2-PINS, BLACK)	Rear RH side of engine compartment in E-Box	21-1	
X6236	CONNECTOR (3-PINS, BLACK)	On coolant inlet		12-1
X6310	CONNECTOR (9-PINS, WHITE)	Rear RH side of engine compartment in E-Box		05-4
X6311	CONNECTOR (9-PINS, YELLOW)	Rear RH side of engine compartment in E-Box		05-4
X6320	CONNECTOR (9-PINS, WHITE)	Rear RH side of engine compartment in E-Box		05-4
X6321	CONNECTOR (9-PINS, YELLOW)	Rear RH side of engine compartment in E-Box		05-4
X6360	CONNECTOR (8-PINS, BLACK)	Front of engine left	13-3	05-5
X6370	CONNECTOR (8-PINS, BLACK)	Front of engine right	13-3	05-5
X6400	B+ JUNCTION POINT	Rear RH side of engine compartment in E-Box	04-2	
X6400	B+ JUNCTION POINT	Rear RH side of engine compartment in E-Box	21-2	
X6402	GROUND	In RH side of luggage compartment	08-1	

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X6402	GROUND	In RH side of luggage compartment	37-1	
X6452	GROUND	Rear RH side of engine compartment near shock tower	06-1	
X6452	GROUND	Rear RH side of engine compartment near shock tower	21-3	
X6453	GROUND	Rear RH side of engine compartment near shock tower	06-1	
X6453	GROUND	Rear RH side of engine compartment near shock tower	21-3	
X6506	CONNECTOR (4-PINS, BLACK)	Rear RH side of engine compartment in E-Box	21-1	09-2
X7151	CONNECTOR (1-PINS, (---))	RH side of engine compartment (air filter removed)		
X7152	CONNECTOR (1-PINS, (---))	LH side of engine compartment		
X7519	CONNECTOR (1-PINS, BLACK)	LH side of engine compartment below intake manifold		
X8151	CONNECTOR (1-PINS, (---))	RH side of engine compartment (air filter removed)		
X8152	CONNECTOR (1-PINS, (---))	LH side of engine compartment		
X8500	CONNECTOR (35-PINS, NATURAL)	In RH rear side of luggage compartment		00-3
X8505	CONNECTOR (8-PINS, BLACK)	Under center of car		06-1
X8509	CONNECTOR (8-PINS, BLACK)	Center console near gearshift lever	32-1	06-4
X8511	CONNECTOR (2-PINS, WHITE)	On RH side of transmission		
X8515	CONNECTOR (8-PINS, BLACK)	Center console near gearshift lever	32-1	06-4
X8517	CONNECTOR (10-PINS, BLACK)	Center console near gearshift lever	32-2	05-3
X8518	CONNECTOR (3-PINS, BLACK)	Center console near gearshift lever		10-5
X8522	CONNECTOR (2-PINS, BLACK)	Center console near gearshift lever		
X9100	CONNECTOR (2-PINS, WHITE)	Center of windshield header		

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COMPONENT LOCATION CHART

COMPONENT			PAGE 7100.0	FIGURE 8500.0
X9997	CONNECTOR (2-PINS, ORANGE)	On steering wheel behind DRIVER'S AIR BAG GENERATOR, G5		
X10006	CONNECTOR (1-PINS, BLACK)	RH side of glove box above		
X10039	CONNECTOR (10-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		04-5
X10040	CONNECTOR (10-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		04-5
X10041	CONNECTOR (10-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		04-5
X10042	CONNECTOR (10-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		04-5
X10044	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		05-4
X10045	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		05-4
X10046	CONNECTOR (2-PINS, BLACK)	Water pump in luggage compartment		
X10047	CONNECTOR (9-PINS, BLACK)	Rear LH side of engine compartment in Front Power Distribution Box		05-4
X10051	CONNECTOR (4-PINS, BLACK)	Center console	32-1	09-2
X10052	CONNECTOR (1-PINS, BLACK)	Rear LH side of engine compartment		
X10053	CONNECTOR (1-PINS, BLACK)	Rear LH side of engine compartment		
X10058	CONNECTOR (1-PINS, YELLOW)	LH footwell under footrest	27-1	
X10088	CONNECTOR (1-PINS, (---))	On underside of engine hood left		
X10089	CONNECTOR (1-PINS, (---))	On underside of engine hood		
X13001	CONNECTOR (9-PINS, BLACK)	Rear Power Distribution Box CONSUMER CUT-OFF RELAY I, K72		05-4
X13008	CONNECTOR (2-PINS, WHITE)	Under RH rear seat	23-3	
X13015	CONNECTOR (9-PINS, BLACK)	In LH side of luggage compartment CONSUMER CUT-OFF RELAY II, K73		05-4
X13017	CONNECTOR (1-PINS, (---))	In upper LH C-pillar	27-3	

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X13018	CONNECTOR (1-PINS, BLACK)	In upper RH C-pillar	28-1	
X13027	CONNECTOR (1-PINS, BLACK)	TRUNK LID SWITCH, S61		
X13049	CONNECTOR (1-PINS, BLACK)	In upper LH C-pillar		
X13052	CONNECTOR (10-PINS, BLACK)	Below LH side of dash LEFT PARK LIGHT RELAY, K26		04-5
X13110	CONNECTOR (2-PINS, BLACK)	Under RH front seat		
X13139	CONNECTOR (10-PINS, BLACK)			05-1
X18024	CONNECTOR (6-PINS, BLACK)	LH side of engine compartment		07-5
X18025	CONNECTOR (4-PINS, BLACK)	LH side of engine compartment		10-2
X18029	CONNECTOR (4-PINS, BLACK)	LH footwell		09-1
X18031	CONNECTOR (3-PINS, BLACK)	RH front of wheel well above	11-3	10-6
X18055	CONNECTOR (12-PINS, BLACK)	Below center console	32-2	04-3
X18066	CONNECTOR (3-PINS, WHITE)	In RH rear side of luggage compartment	36-3	11-2
X18067	CONNECTOR (3-PINS, WHITE)	In LH forward side of luggage compartment behind trim panel	35-3	11-2
X18068	CONNECTOR (9-PINS, BLACK)	In RH side of luggage compartment		05-4
X18069	CONNECTOR (12-PINS, WHITE)	Below RH side of dash	31-1	03-5
X18080	CONNECTOR (1-PINS, BLACK)	TRUNK LID LIGHT, E33		
X18093	CONNECTOR (6-PINS, BLACK)	On steering column		07-3
X18094	CONNECTOR (3-PINS, BLUE)	Bottom of steering column		10-4
X18095	CONNECTOR (3-PINS, BLUE)	Bottom of steering column		10-4
X18096	CONNECTOR (2-PINS, BLACK)	Bottom of steering column		

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X18097	CONNECTOR (2-PINS, BLACK)	Bottom of steering column		
X18098	CONNECTOR (5-PINS, BLACK)	Behind dashboard behind radio		08-4
X18099	CONNECTOR (12-PINS, BLACK)	Behind dashboard behind radio		03-5
X18124	CONNECTOR (2-PINS, WHITE)	Under RH front seat		
X18125	CONNECTOR (2-PINS, WHITE)	Under RH front seat		
X18131	CONNECTOR (12-PINS, WHITE)	Center of dash behind radio		03-5
X18135	CONNECTOR (4-PINS, WHITE)	In upper LH front seatback		09-3
X18138	CONNECTOR (4-PINS, WHITE)	In upper RH front seatback		09-3
X18145	CONNECTOR (2-PINS, BLACK)	Under rear of car	12-2	
X18146	CONNECTOR (2-PINS, BLACK)	Under rear of car	12-2	
X18165	CONNECTOR (2-PINS, BLACK)	Underside of RH front seat		
X18166	CONNECTOR (2-PINS, BLACK)	DRIVER'S DOOR PANEL LIGHT, E78		
X18167	CONNECTOR (2-PINS, BLACK)	PASSENGER'S DOOR PANEL LIGHT, E79		
X18170	GROUND	Inside box on interior side of LH door sill	06-3	
X18170	GROUND	Inside box on interior side of LH door sill	25-1	
X18171	CONNECTOR (10-PINS, BLACK)	In upper LH front door DRIVER'S SIDE MEMORY MIRROR, Y9	33-2	05-1
X18172	CONNECTOR (10-PINS, BLACK)	In upper LH front door	33-2	05-1
X18173	CONNECTOR (6-PINS, BLACK)	In upper LH front door		07-2
X18177	CONNECTOR (2-PINS, GRAY)	Water pump in luggage compartment in spare tire compartment		
X18178	CONNECTOR (4-PINS, BLACK)	Underside of LH front seat		09-6

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COMPONENT LOCATION CHART

COMPONENT			PAGE - FIGURE 7100.0	8500.0
X18179	CONNECTOR (4-PINS, BLACK)	Underside of RH front seat		09-6
X18180	CONNECTOR (3-PINS, WHITE)	In luggage compartment		12-2
X18246	CONNECTOR (3-PINS, YELLOW)	Center of windshield header		12-4
X18500	CONNECTOR (25-PINS, BLACK)	TELEPHONE TRANSCEIVER, H38		12-5
X18507	CONNECTOR (4-PINS, (---))	Center console		
X18508	CONNECTOR (3-PINS, (---))	In LH forward side of luggage compartment		
X18509	CONNECTOR (8-PINS, (---))	Center console		
X18514	CONNECTOR (2-PINS, (---))	Behind RH footwell speaker grille		
X18515	CONNECTOR (2-PINS, (---))	Behind LH footwell speaker grille		
X18736	CONNECTOR (1-PINS, BLUE)	Inside box on interior side of LH door sill		
X18741	CONNECTOR (4-PINS, (---))	In LH forward side of luggage compartment		
X18757	CONNECTOR (3-PINS, WHITE)	In lower RH rear door behind trim panel		10-6
Y1	ABS HYDRAULIC UNIT	Front LH side of engine compartment under concealing headlight	16-3	
Y3	AIR CONDITIONING COMPRESSOR (IHKA)	Front RH side of engine compartment	16-2	
Y4	WATER VALVE ASSEMBLY	Rear LH side of engine compartment	15-1	
Y5	DRIVER'S SIDE MIRROR	In upper LH front door		
Y6	PASSENGER'S SIDE MIRROR	In upper RH front door		
Y9	DRIVER'S SIDE MEMORY MIRROR	In upper LH front door		
Y10	PASSENGER'S SIDE MEMORY MIRROR	In upper RH front door		
Y16	PRESSURE SENSOR/PLUNGER	LH side of engine compartment		

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COMPONENT LOCATION CHART

COMPONENT

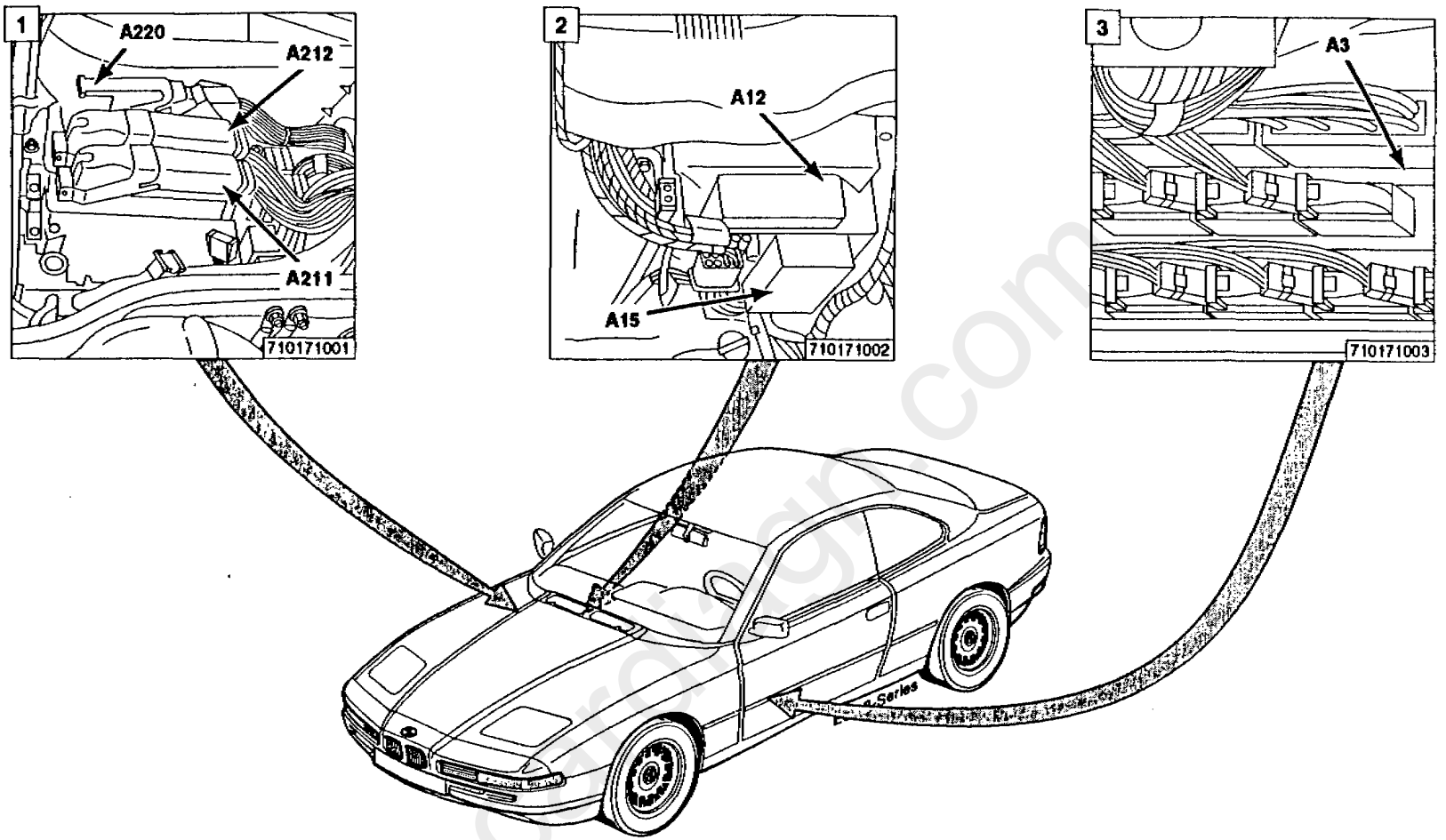
			PAGE – FIGURE 7100.0	8500.0
Y201	CYL. 1 FUEL INJECTION VALVE	LH side of engine		13-2
Y202	CYL. 2 FUEL INJECTION VALVE	LH side of engine		13-2
Y203	CYL. 3 FUEL INJECTION VALVE	LH side of engine		13-2
Y204	CYL. 4 FUEL INJECTION VALVE	LH side of engine		13-2
Y205	CYL. 5 FUEL INJECTION VALVE	LH side of engine		13-2
Y206	CYL. 6 FUEL INJECTION VALVE	LH side of engine		13-2
Y207	CYL. 7 FUEL INJECTION VALVE	RH side of engine		13-1
Y208	CYL. 8 FUEL INJECTION VALVE	RH side of engine		13-1
Y209	CYL. 9 FUEL INJECTION VALVE	RH side of engine		13-1
Y210	CYL. 10 FUEL INJECTION VALVE	RH side of engine		13-1
Y211	CYL. 11 FUEL INJECTION VALVE	RH side of engine		13-1
Y212	CYL. 12 FUEL INJECTION VALVE	RH side of engine		13-1
Y221	CYL. 1-6 EVAPORATIVE EMISSION VALVE	Front RH side of engine compartment		
Y222	CYL. 7-12 EVAPORATIVE EMISSION VALVE	Front RH side of engine compartment		
Y401z	LEFT FRONT EDC VALVES	Behind LH front wheel		
Y402z	RIGHT FRONT EDC VALVES	Behind RH front wheel		10-3
Y403z	LEFT REAR EDC VALVES	Behind LH rear wheel		11-1
Y404z	RIGHT REAR EDC VALVES	Behind RH rear wheel		
Y8505	TRANSMISSION VALVE UNIT	Under center of car		

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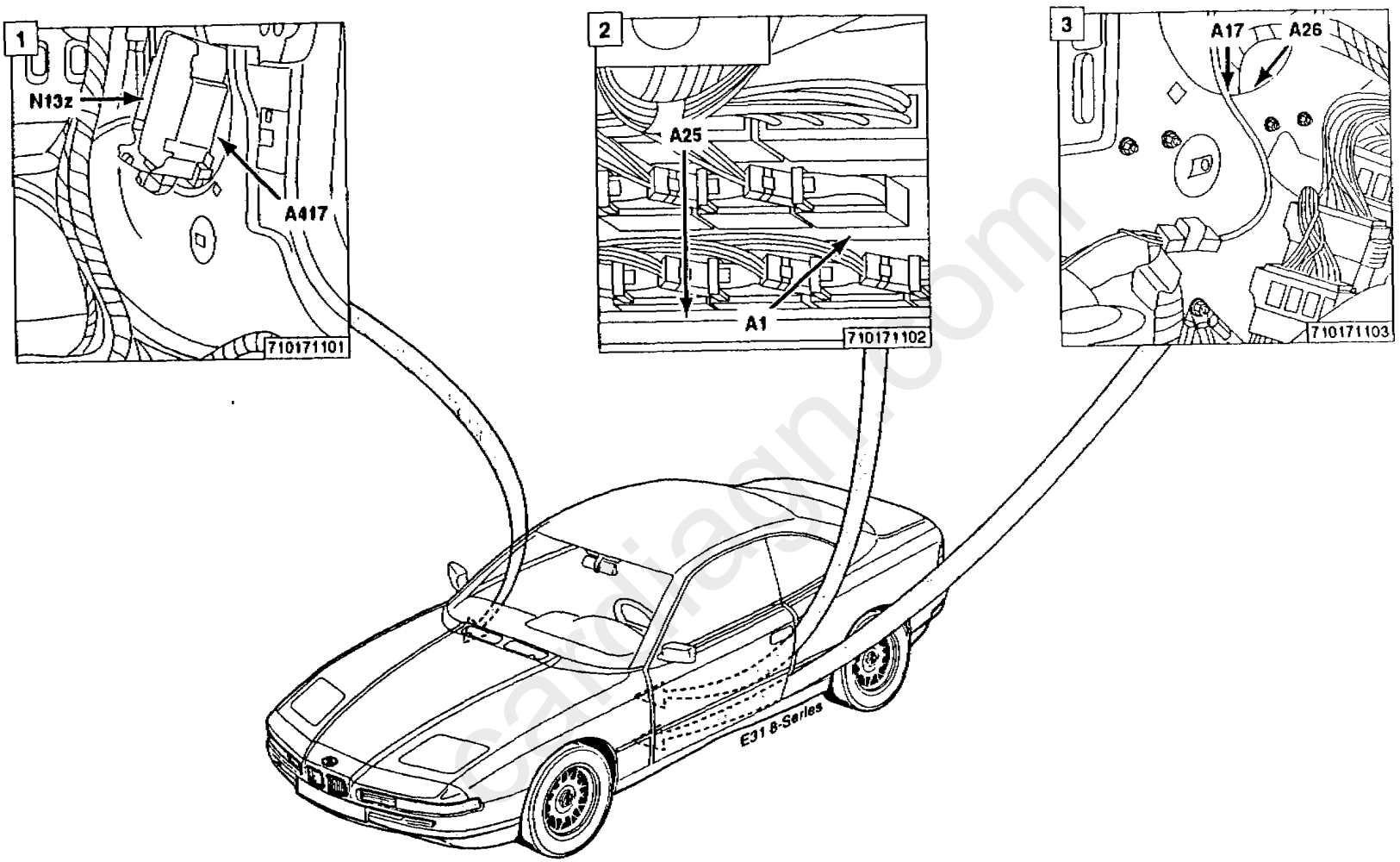
COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS



COMPONENT LOCATION VIEWS

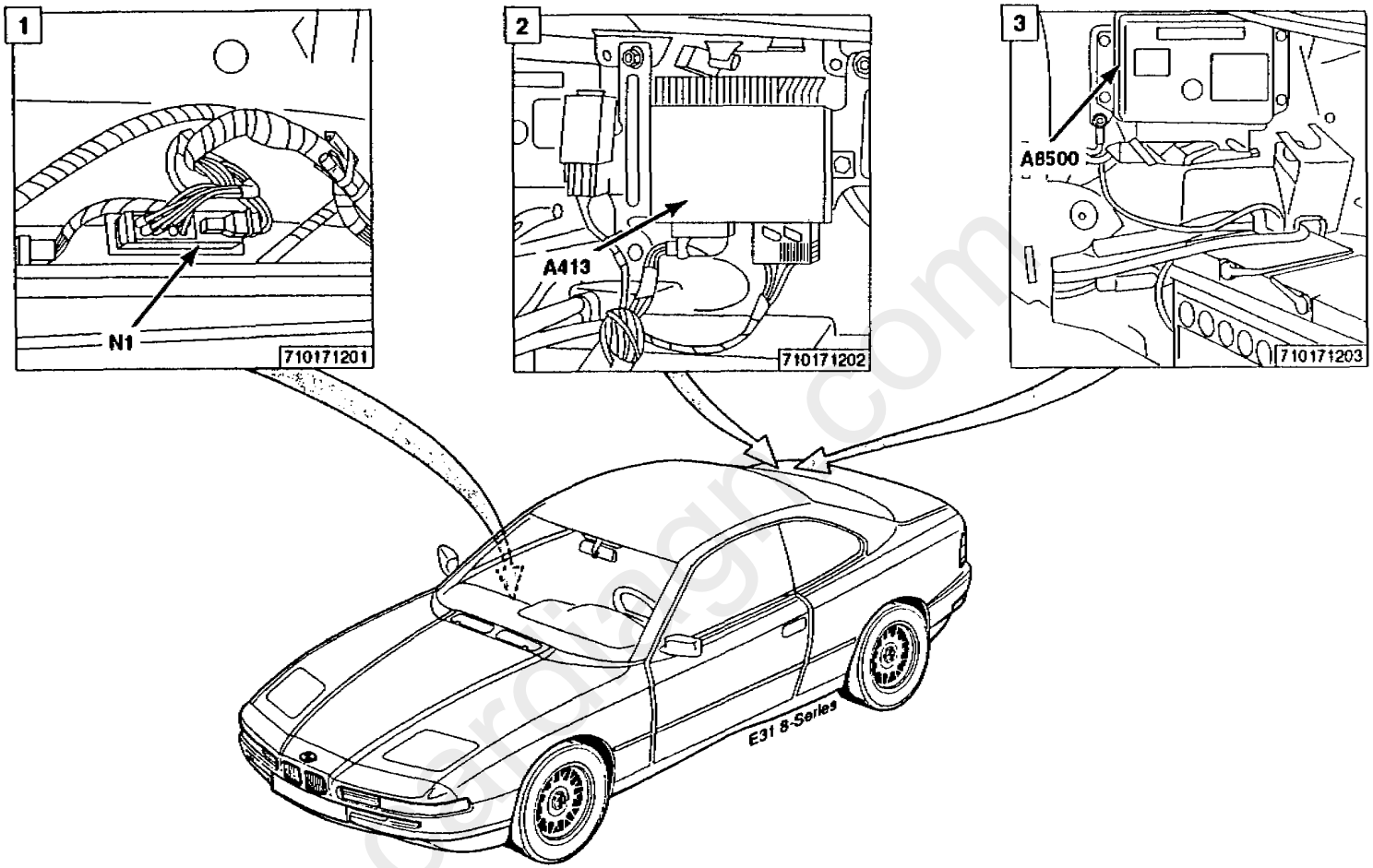
ELECTRICAL CONTROL MODULE LOCATIONS



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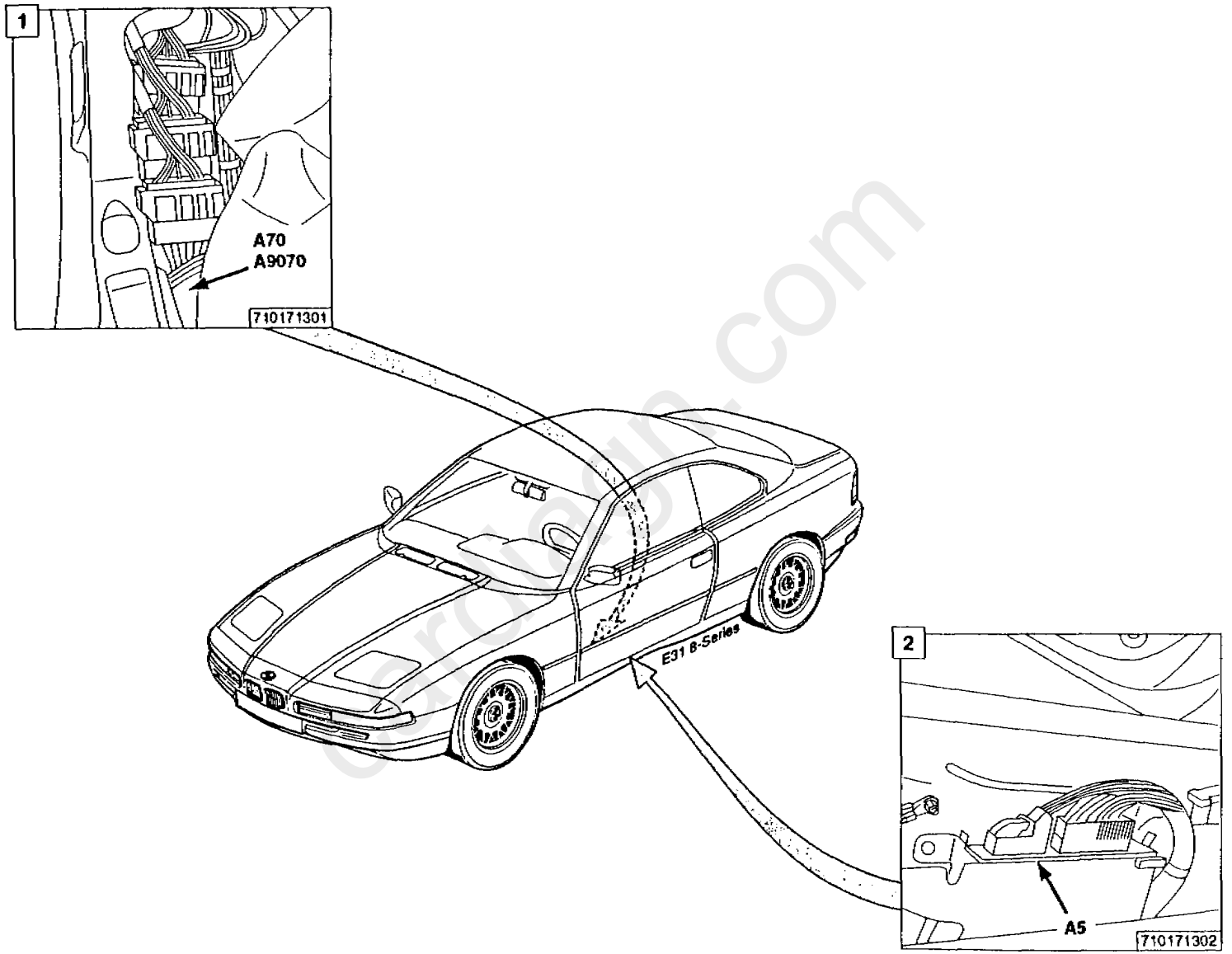
COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS



COMPONENT LOCATION VIEWS

ELECTRICAL CONTROL MODULE LOCATIONS

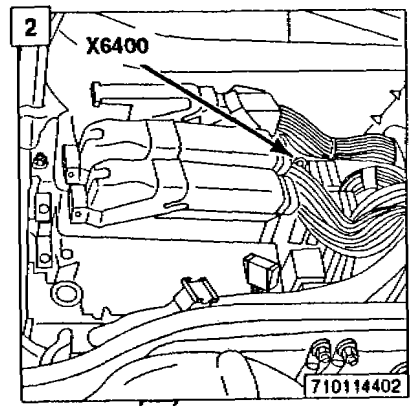


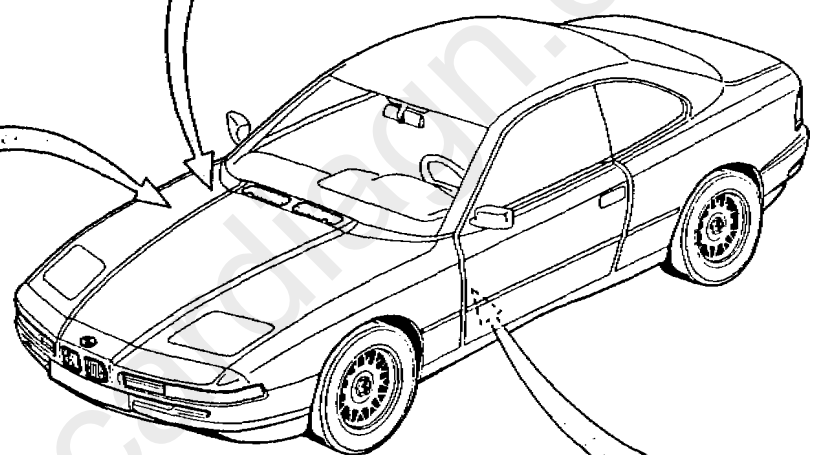
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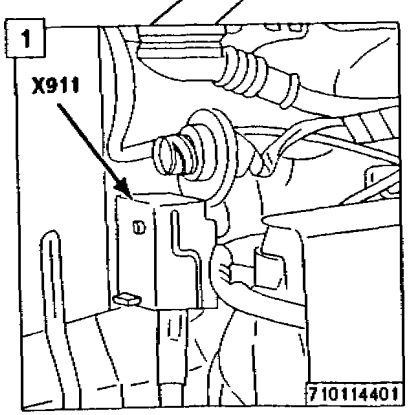
COMPONENT LOCATION VIEWS

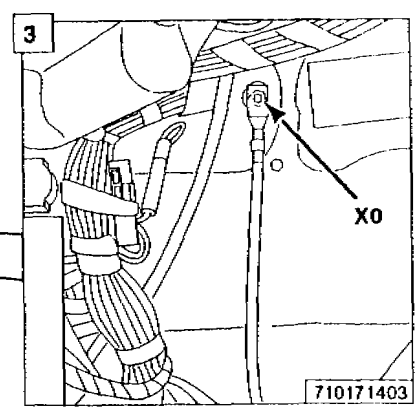
B(+)

X0
X911
X6400







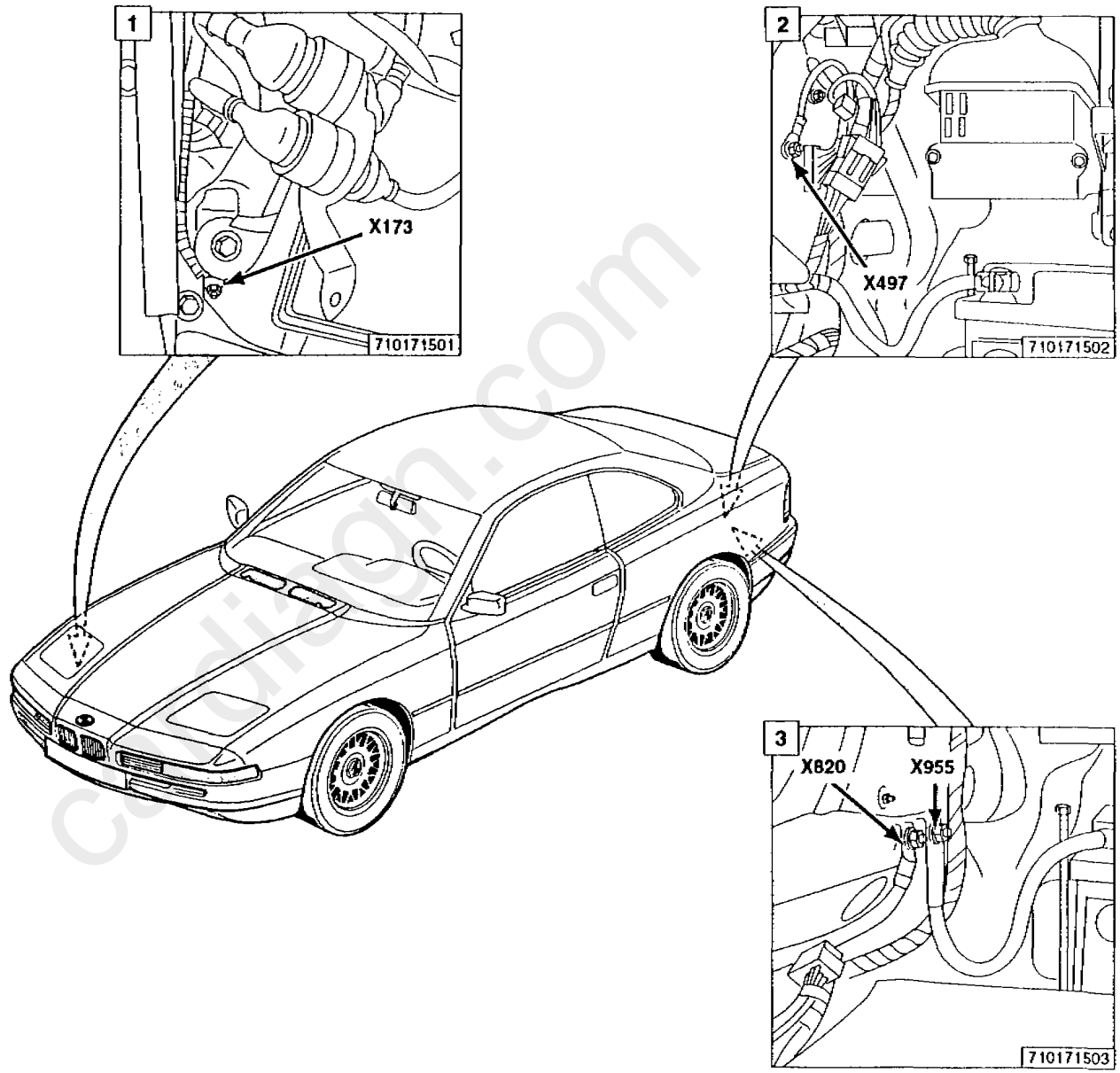


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COMPONENT LOCATION VIEWS

B(-)

X173
X497
X820
X955

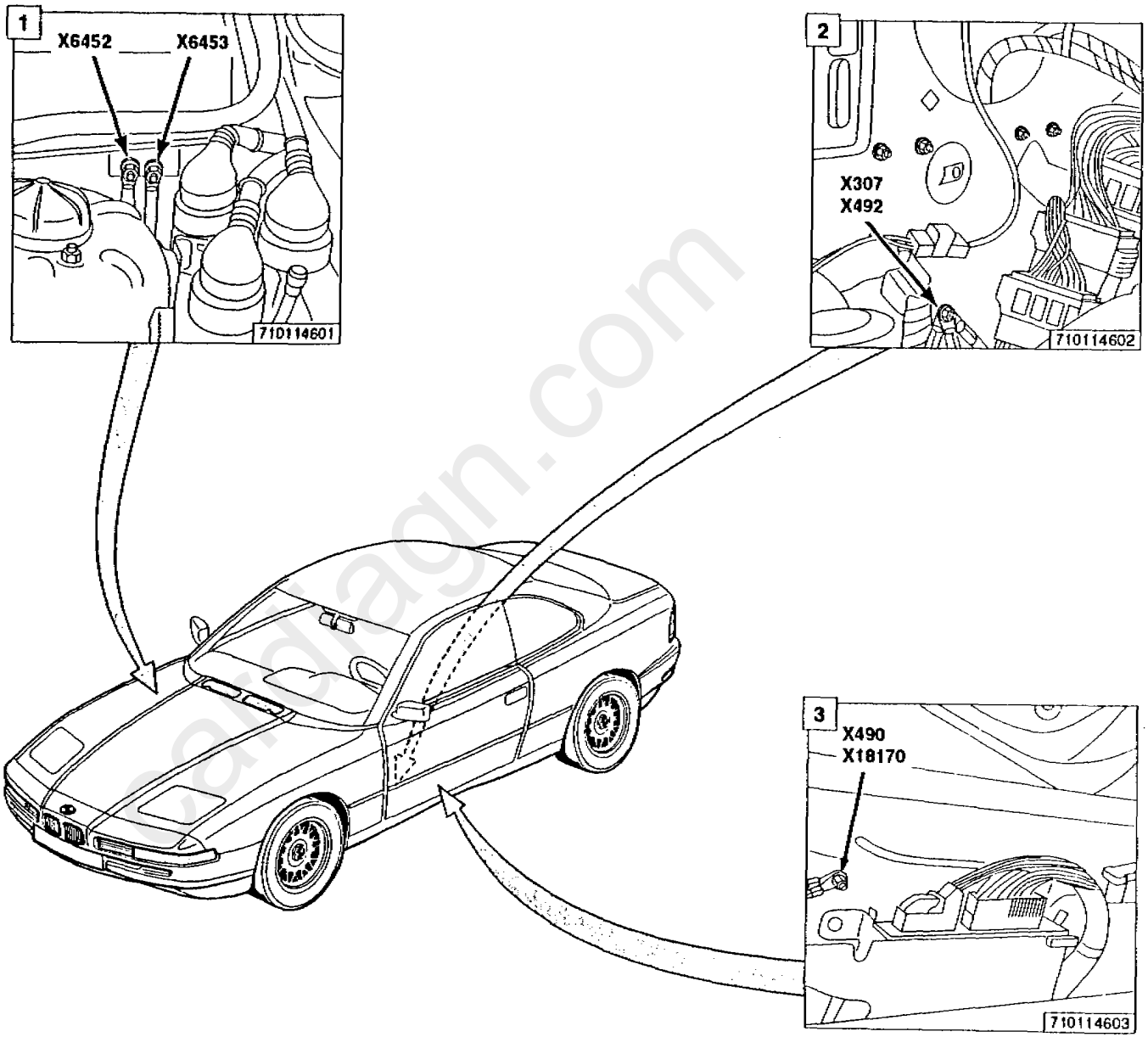


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COMPONENT LOCATION VIEWS

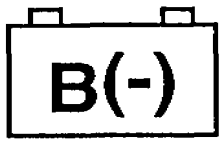
B(-)

X307
X490
X492
X6452
X6453
X18170

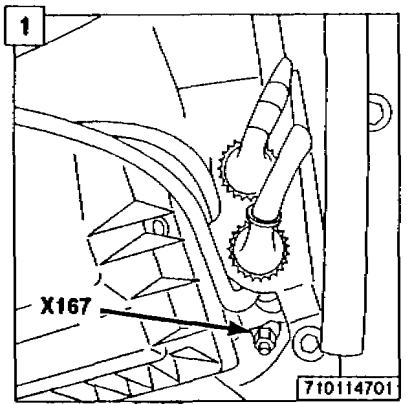


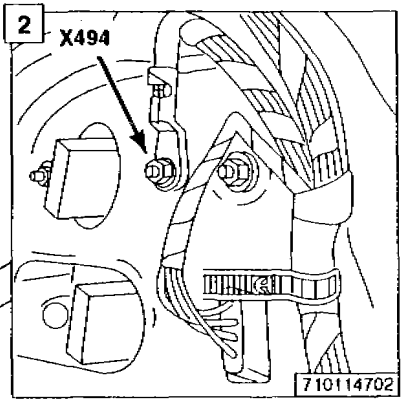
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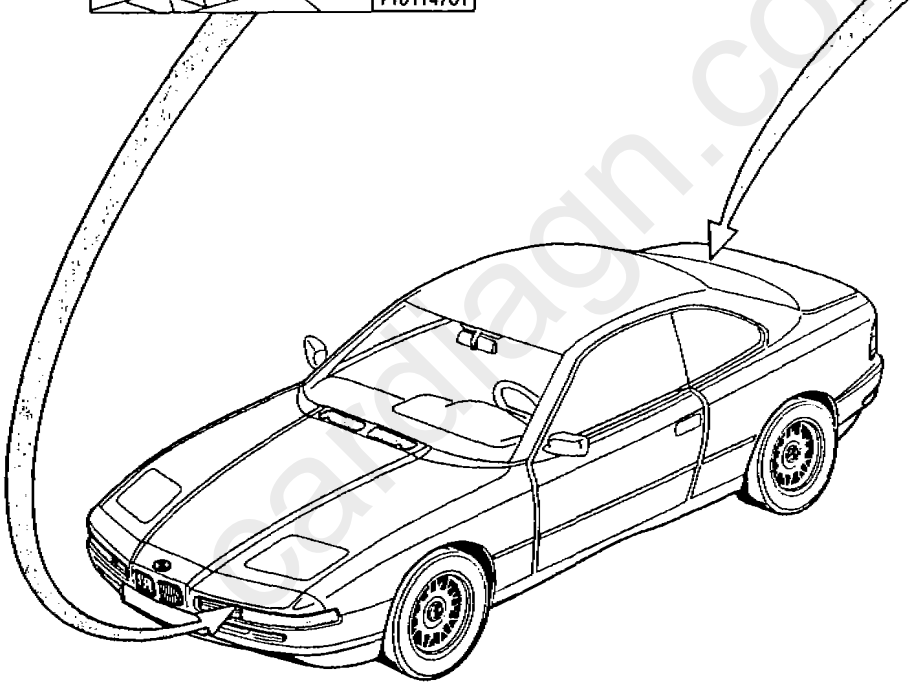
COMPONENT LOCATION VIEWS



X167
X494





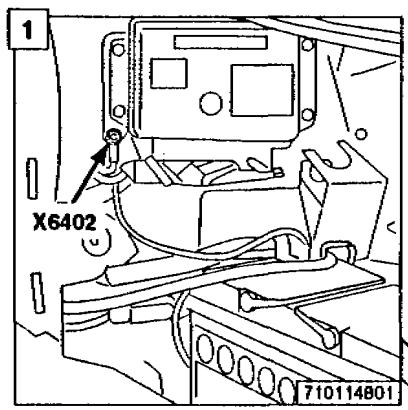


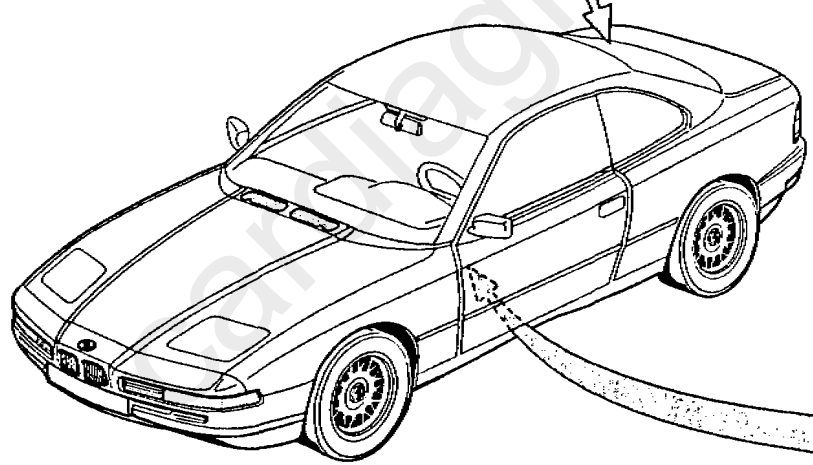
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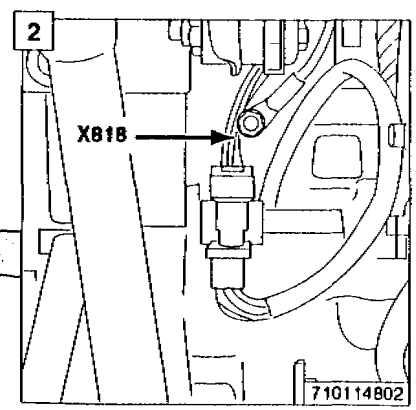
COMPONENT LOCATION VIEWS

B(-)

X818
X6402







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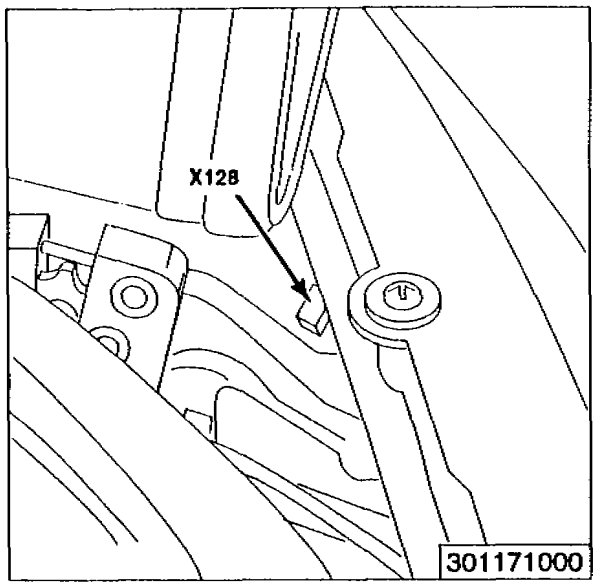


FIG. 1 - Near LH headlight assembly

X128 CONNECTOR (7-PINS, BLACK)

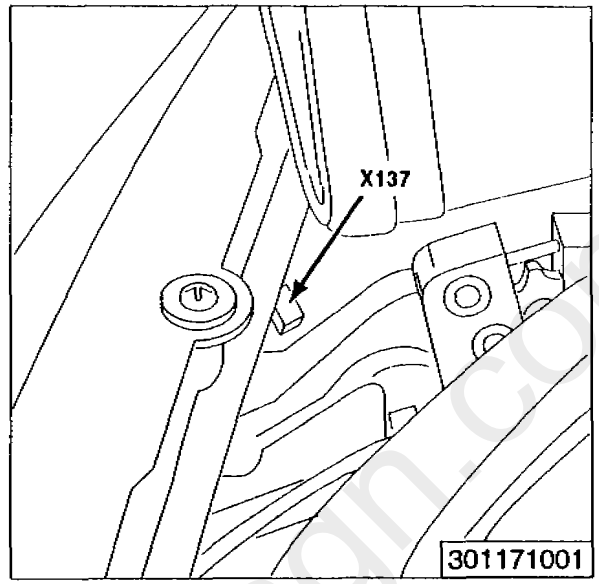


FIG. 2 - Near RH headlight assembly

X137 CONNECTOR (7-PINS, BLACK)

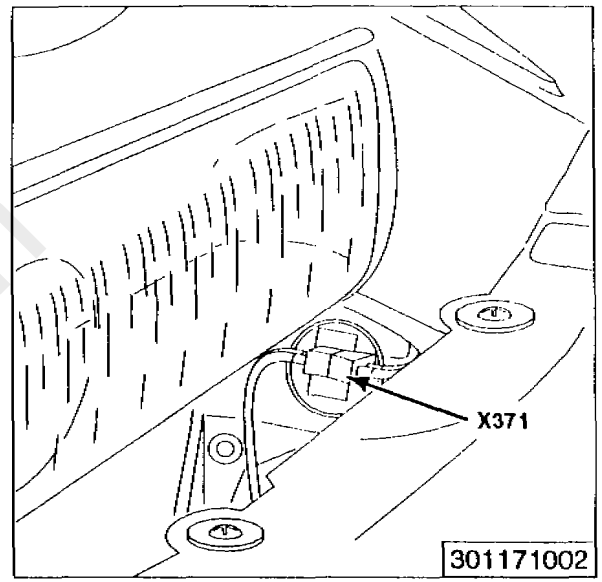


FIG. 3 - Near RH headlight assembly

X371 CONNECTOR (2-PINS, BLACK)

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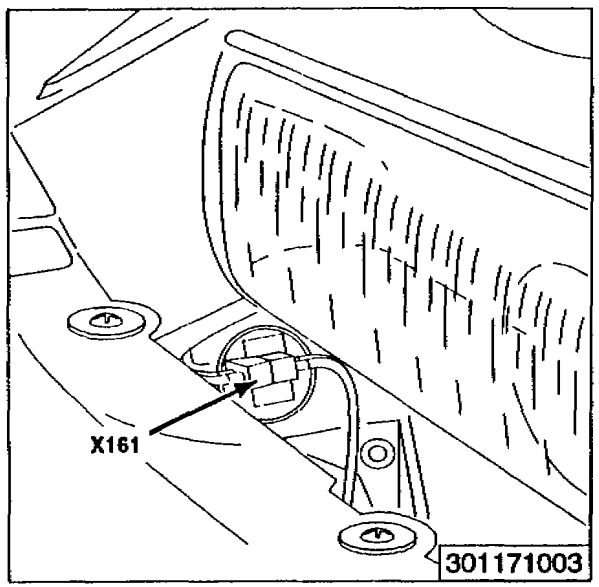


FIG. 1 - Near LH headlight assembly

X161 CONNECTOR (2-PINS, BLACK)

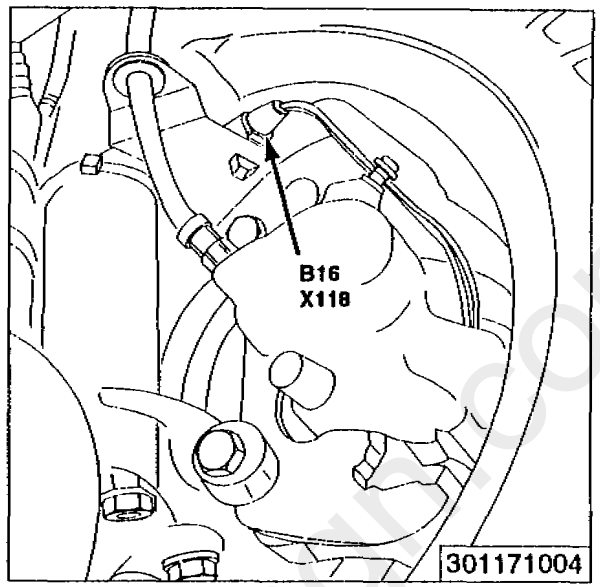


FIG. 2 - Behind LH front wheel RH rear wheel similar

B16 LEFT FRONT BRAKE PAD SENSOR

X118 CONNECTOR (2-PINS, BLACK)

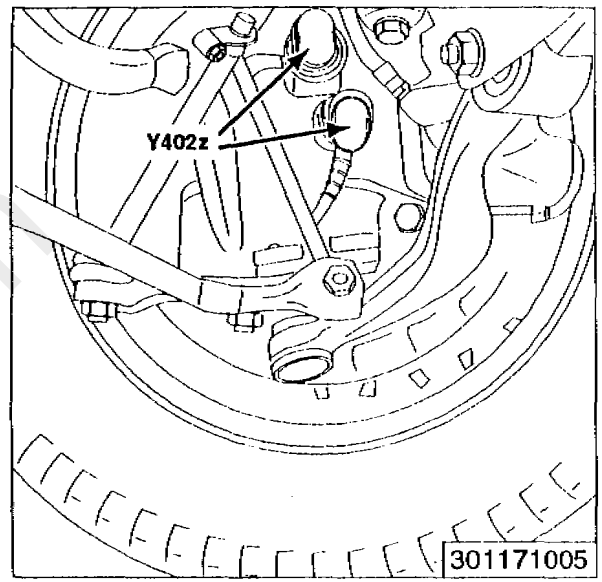


FIG. 3 - Behind LH front wheel (RH similar)

Y402z RIGHT FRONT EDC VALVES

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COMPONENT LOCATION VIEWS

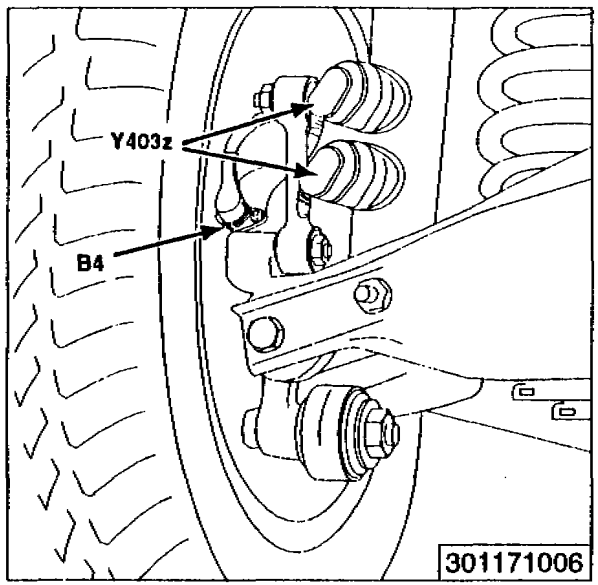


FIG. 1 - Behind LH rear wheel (RH similar)

B4 LEFT REAR SPEED SENSOR - ABS

Y403z LEFT REAR EDC VALVES

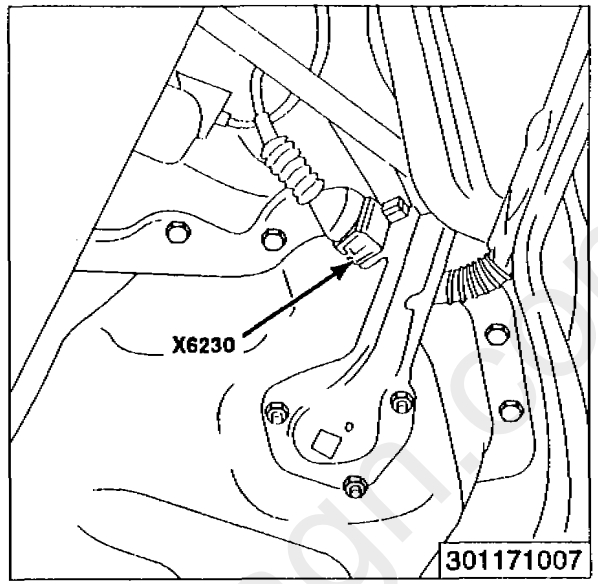


FIG. 2 - Under LH front of car

X6230 CONNECTOR (3-PINS, BLACK)

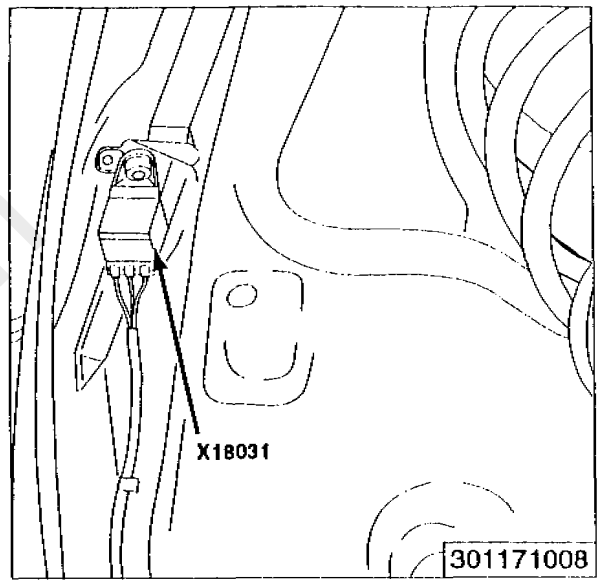


FIG. 3 - RH front of wheel well above under trim panel

X18031 CONNECTOR (3-PINS, BLACK)

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COMPONENT LOCATION VIEWS

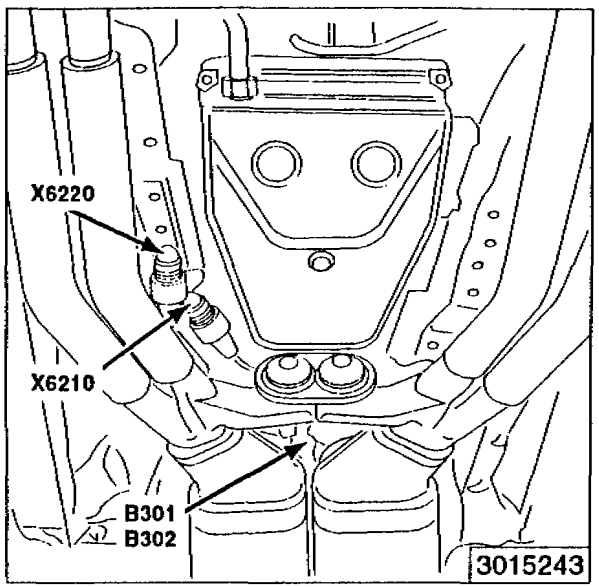


FIG. 1 - On catalytic converter

X6210 CONNECTOR (4-PINS, GRAY)
X6220 CONNECTOR (4-PINS, GRAY)
B301 CYL. 1-6 HEATED OXYGEN SENSOR
B302 CYL. 7-12 HEATED OXYGEN SENSOR

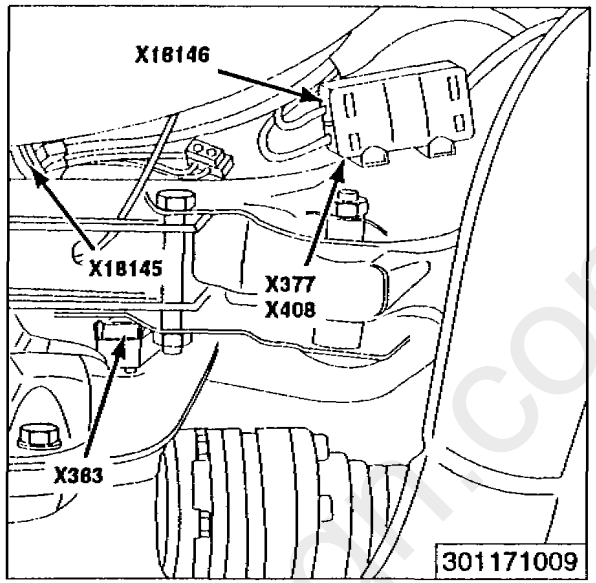


FIG. 2 - Under rear of car

X377 CONNECTOR (2-PINS, WHITE)
X383 CONNECTOR (2-PINS, BLACK)
X408 CONNECTOR (3-PINS, BLUE)
X18145 CONNECTOR (2-PINS, BLACK)
X18146 CONNECTOR (2-PINS, BLACK)

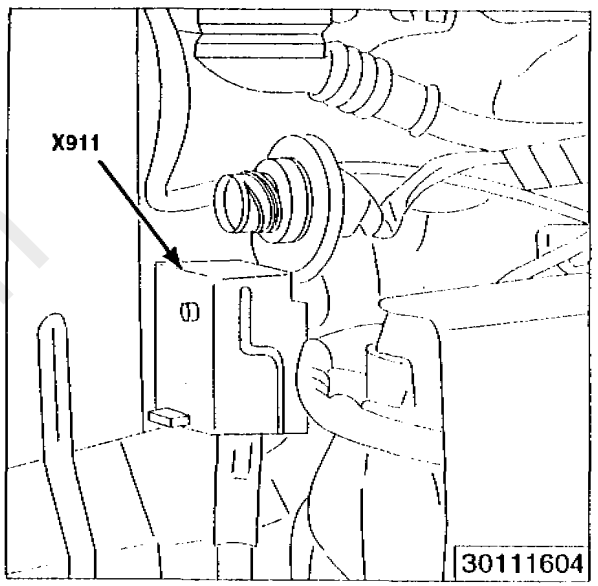


FIG. 3 - Rear RH side of engine compartment near shock tower

X911 STARTER JUNCTION POINT

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COMPONENT LOCATION VIEWS

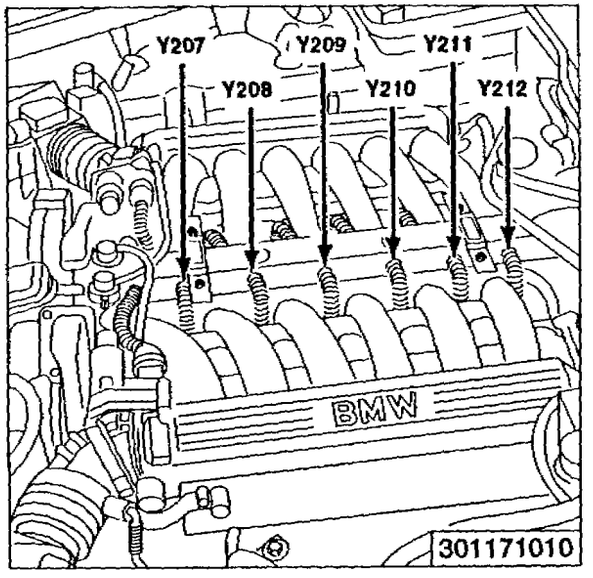


FIG 1 - Top center of engine

Y207	CYL 7 FUEL INJECTION VALVE
Y208	CYL 8 FUEL INJECTION VALVE
Y209	CYL 9 FUEL INJECTION VALVE
Y210	CYL 10 FUEL INJECTION VALVE
Y211	CYL 11 FUEL INJECTION VALVE
Y212	CYL 12 FUEL INJECTION VALVE

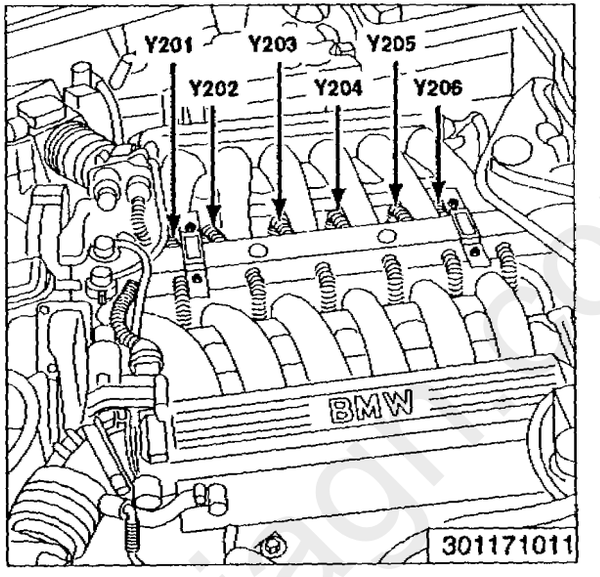


FIG 2 - Top center of engine

Y201	CYL 1 FUEL INJECTION VALVE
Y202	CYL 2 FUEL INJECTION VALVE
Y203	CYL 3 FUEL INJECTION VALVE
Y204	CYL 4 FUEL INJECTION VALVE
Y205	CYL 5 FUEL INJECTION VALVE
Y206	CYL 6 FUEL INJECTION VALVE

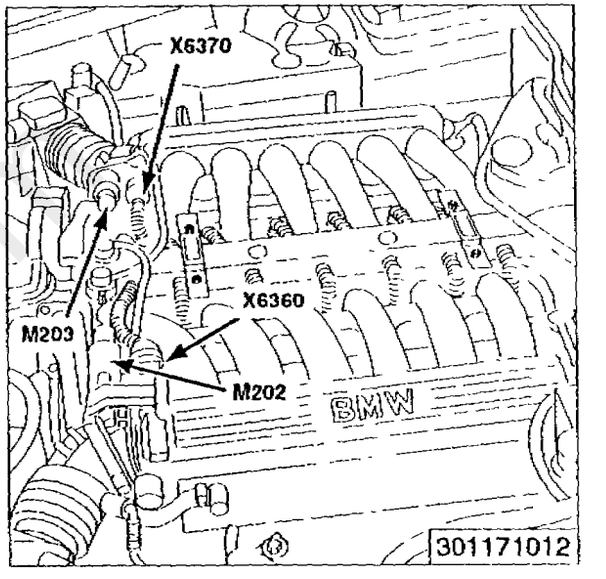


FIG 3 - Top front of engine

M202	CYL 1-6 THROTTLE BODY (EML)
M203	CYL 7-12 THROTTLE BODY (EML)
X6360	CONNECTOR (8-PINS, BLACK)
X6370	CONNECTOR (8-PINS, BLACK)

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COMPONENT LOCATION VIEWS

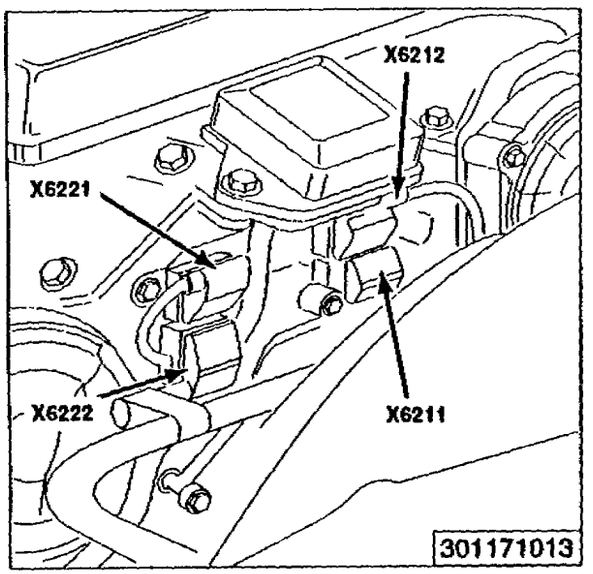


FIG 1 - Front of engine compartment

X6211 CONNECTOR (3-PINS, BLACK)
X6212 CONNECTOR (3-PINS, BLACK)
X6221 CONNECTOR (3-PINS, BLACK)
X6222 CONNECTOR (3-PINS, BLACK)

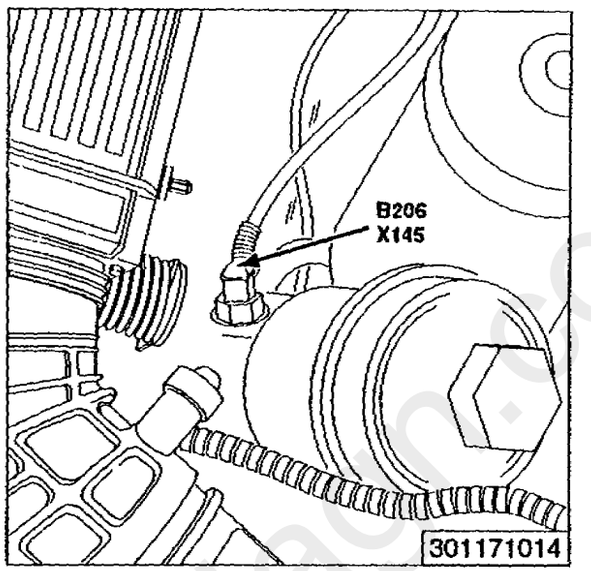


FIG 2 - LH side of engine compartment

B206 OIL PRESSURE SWITCH
X145 CONNECTOR (2-PINS, BLACK)

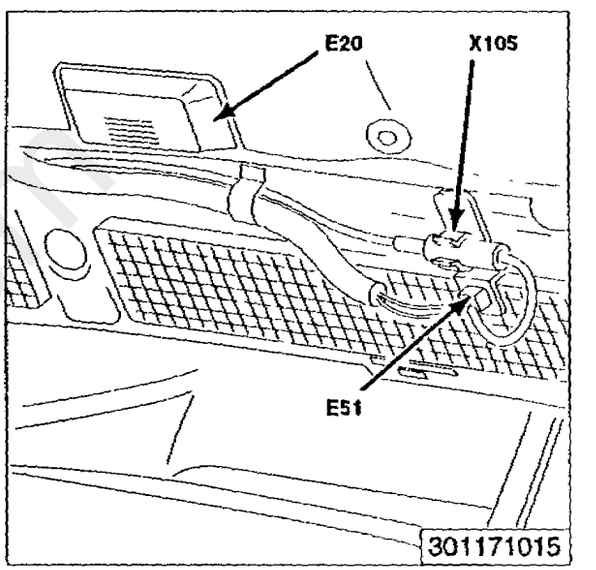


FIG 3 - On underside of engine hood left (RH similar)

E20 UNDERHOOD LIGHT
E51 LEFT WASHER JET HEATER
X105 CONNECTOR (2-PINS, BLACK)

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COMPONENT LOCATION VIEWS

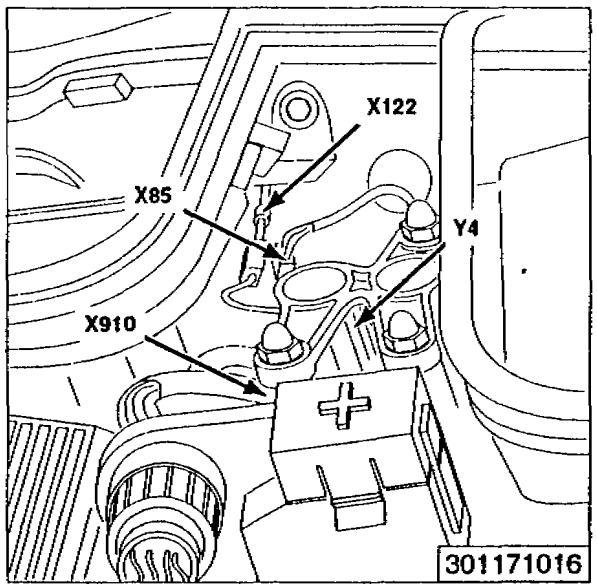


FIG. 1 - Rear LH side of engine compartment

- X85 CONNECTOR (3-PINS, BLACK)
- X122 CONNECTOR (2-PINS, BLACK)
- X910 B+ JUNCTION POINT
- Y4 WATER VALVE ASSEMBLY

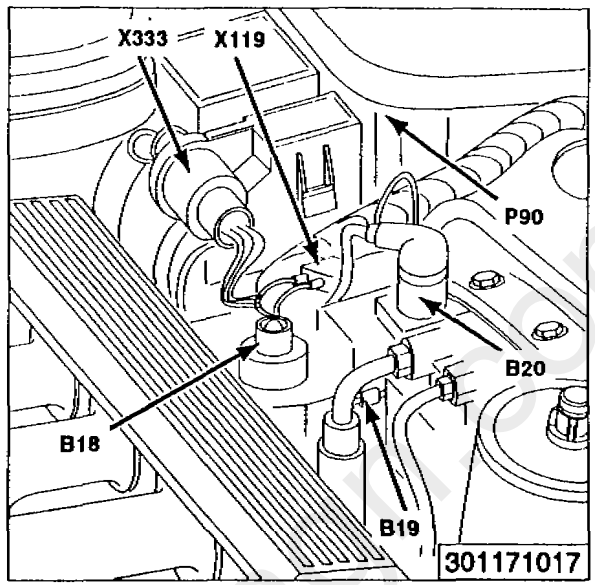


FIG. 2 - Rear LH side of engine compartment

- B18 BRAKE FLUID LEVEL SWITCH
- B19 BRAKE PRESSURE REGULATING SWITCH
- B20 BRAKE PRESSURE SWITCH
- P90 FRONT POWER DISTRIBUTION BOX
- X119 CONNECTOR (2-PINS, BLACK)
- X333 CONNECTOR (12-PINS, BLACK)

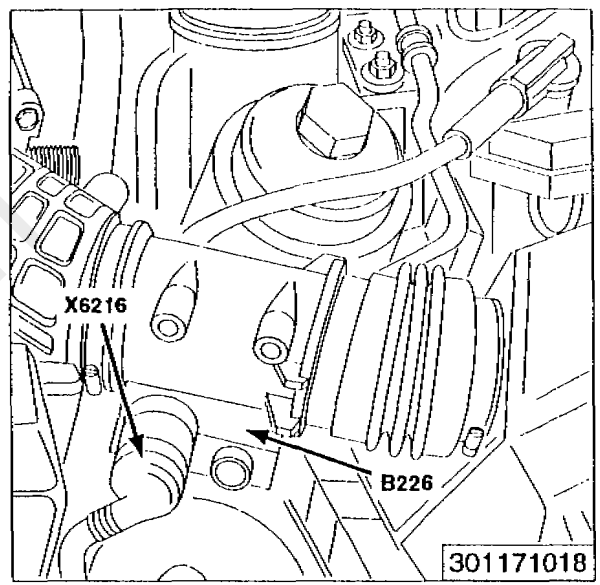


FIG. 3 - Front LH side of engine compartment

- B226 CYL. 1-6 MASS AIR FLOW SENSOR
- X6216 CONNECTOR (7-PINS, BLACK)

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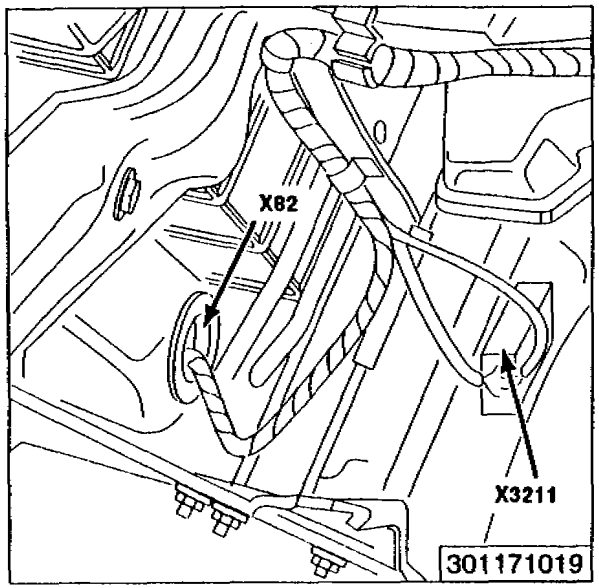


FIG. 1 - Front LH side of engine compartment (headlights removed)

X82 CONNECTOR (3-PINS, BLACK)
X3211 CONNECTOR (4-PINS, BLACK)

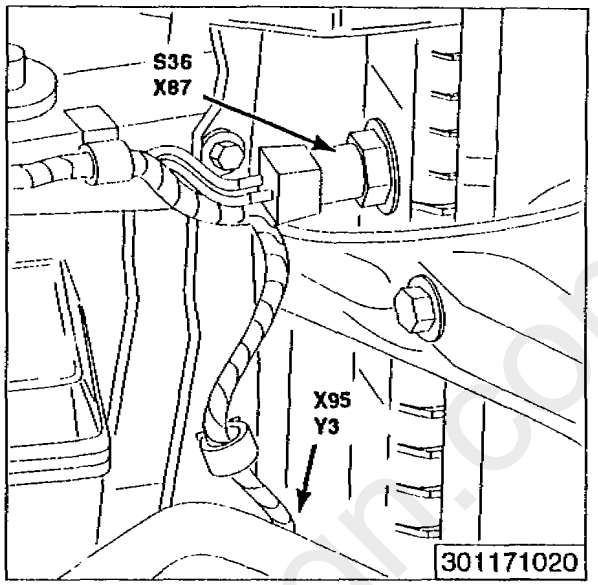


FIG. 2 - Front RH side of engine compartment (headlights removed)

S36 TEMPERATURE SWITCH
X87 CONNECTOR (3-PINS, BLACK)
X95 CONNECTOR (3-PINS, BLACK)
Y3 AIR CONDITIONING COMPRESSOR (IHKA)

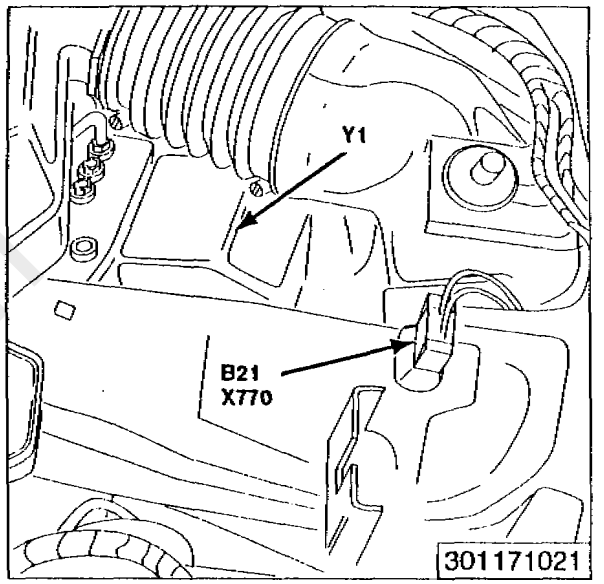


FIG. 3 - Front LH side of engine compartment (headlights removed)

B21 ON-BOARD COMPUTER TEMPERATURE SENSOR
X770 CONNECTOR (2-PINS, YELLOW)
Y1 ABS HYDRAULIC UNIT

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COMPONENT LOCATION VIEWS

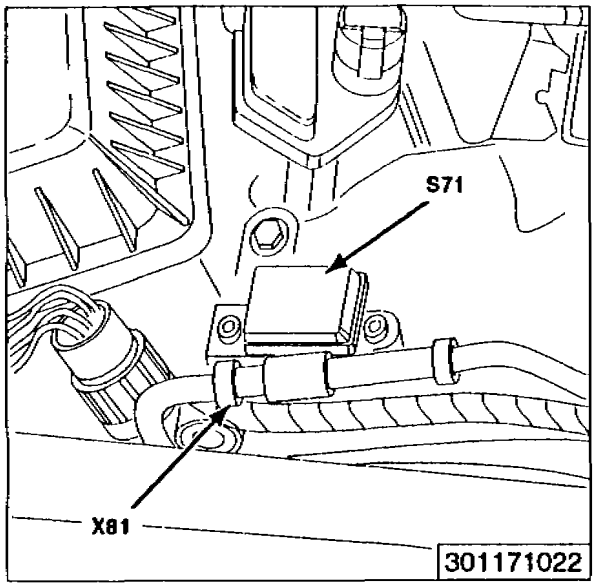


FIG 1 - LH side of engine compartment

S71 LEFT FRONT IMPACT SENSOR
X81 CONNECTOR (3-PINS, ORANGE)

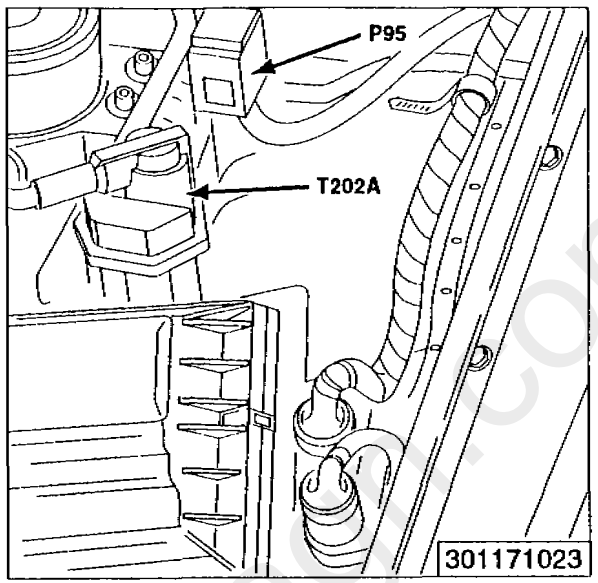


FIG 2 - LH side of engine compartment ahead of LH side shock tower

P95 AUXILIARY FUSE BOX
T202A CYL 7-12 IGNITION COIL

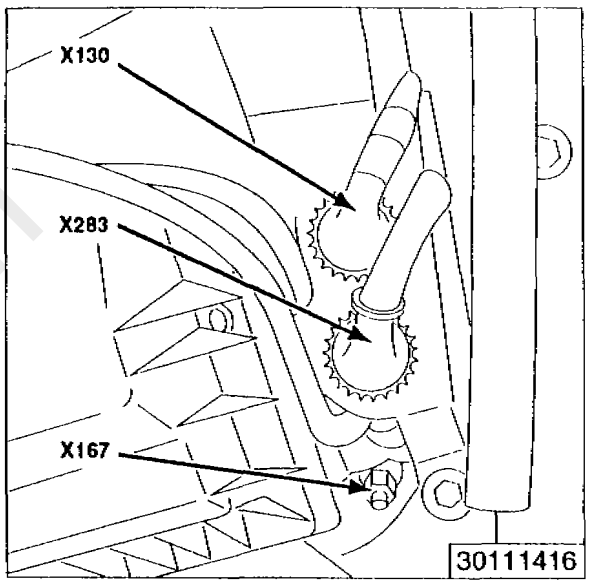


FIG 3 - LH side of engine compartment

X130 CONNECTOR (7-PINS, BLACK)
X167 GROUND
X283 CONNECTOR (4-PINS, BLACK)

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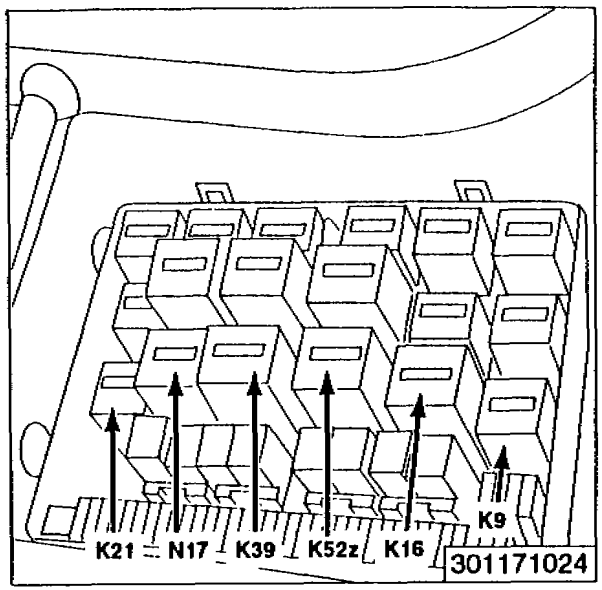


FIG. 1 - Rear LH side of engine compartment

- K9 UNLOADER RELAY, TERMINAL 15
- K16 HAZARD FLASHER RELAY
- K21 NORMAL SPEED RELAY
- K39 CONCEALING HEADLIGHTS RELAY
- K52z FLASHER LIGHT RELAY
- N17 CRASH CONTROL MODULE

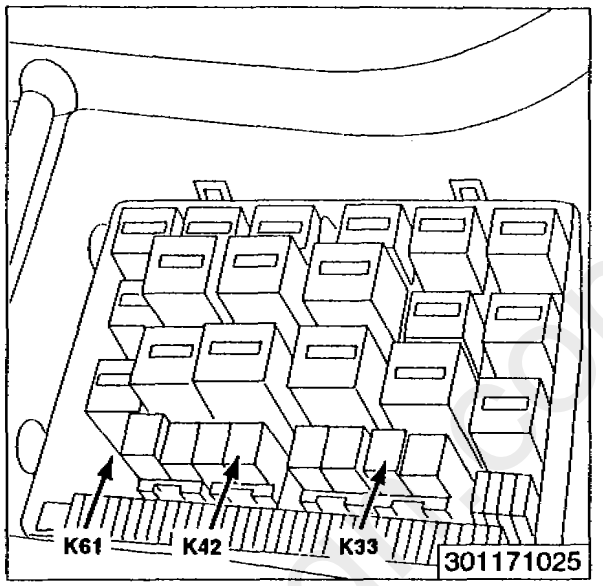


FIG. 2 - Rear LH side of engine compartment

- K33 AIR CONDITIONING RELAY
- K42 INTENSIVE WASH RELAY
- K61 UNLOADER RELAY, TERMINAL 61

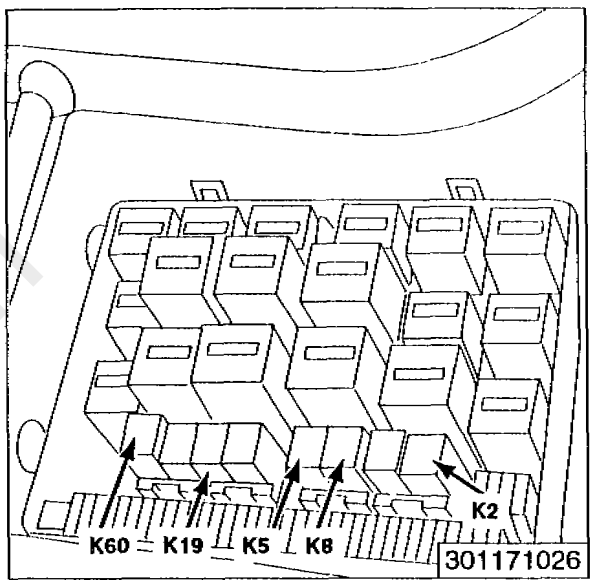


FIG. 3 - Rear LH side of engine compartment

- K2 HORN RELAY
- K5 WASHER PUMP RELAY
- K8 AUXILIARY WATER PUMP RELAY
- K19 COMPRESSOR CONTROL RELAY
- K60 COMPRESSOR CUT-OFF RELAY

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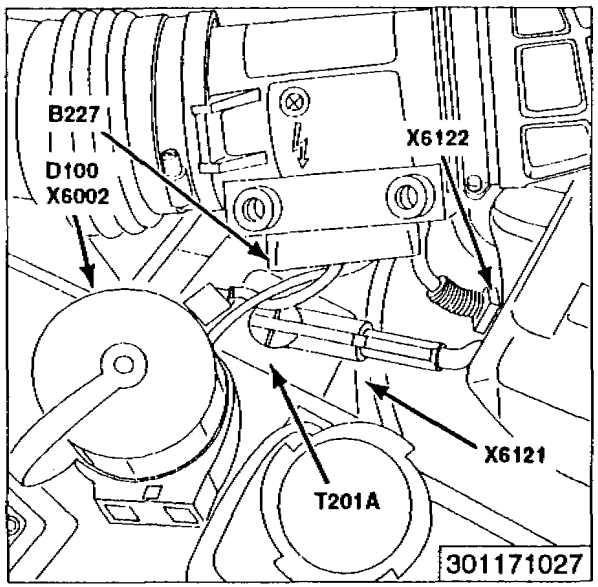


FIG. 1 - RH side of engine compartment

- B227 CYL. 7-12 MASS AIR FLOW SENSOR
- D100 DATA LINK CONNECTOR
- T201A CYL. 1-6 IGNITION COIL
- X6002 CONNECTOR (20-PINS, BLACK)
- X6121 CONNECTOR (2-PINS, BLACK)
- X6122 CONNECTOR (2-PINS, WHITE)

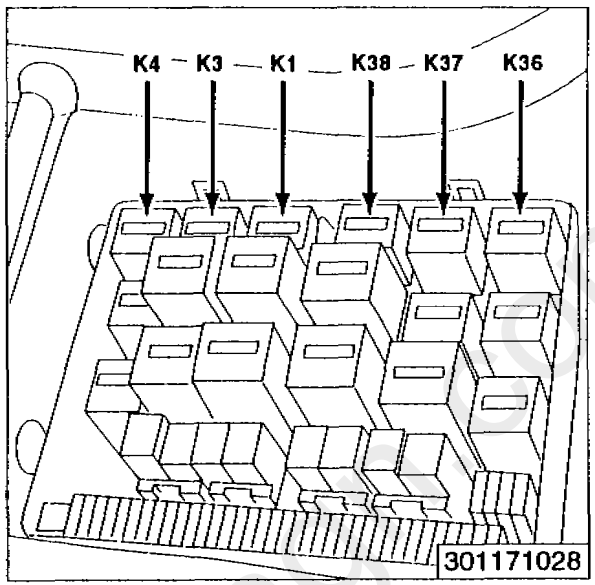


FIG. 2 - Rear LH side of engine compartment

- K1 STARTER RELAY
- K3 UNLOADER RELAY, TERMINAL R
- K4 BLOWER RELAY
- K36 WIPER RELAY I
- K37 WIPER RELAY II
- K38 WIPER RELAY III

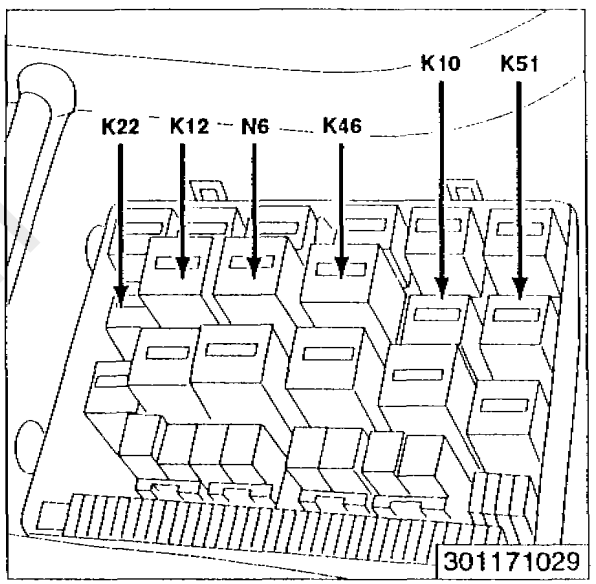


FIG. 3 - Rear LH side of engine compartment

- K10 ABS RELAY
- K12 WIPER PRESSURE CONTROL (ADV) RELAY
- K22 HIGH SPEED RELAY
- K46 HIGH BEAM LIGHT RELAY
- K51 JUMPER PLUG FOR HORN/TELEPHONE
- N6 HEADLIGHT/FOGLIGHT CLEANING MODULE (SRA)

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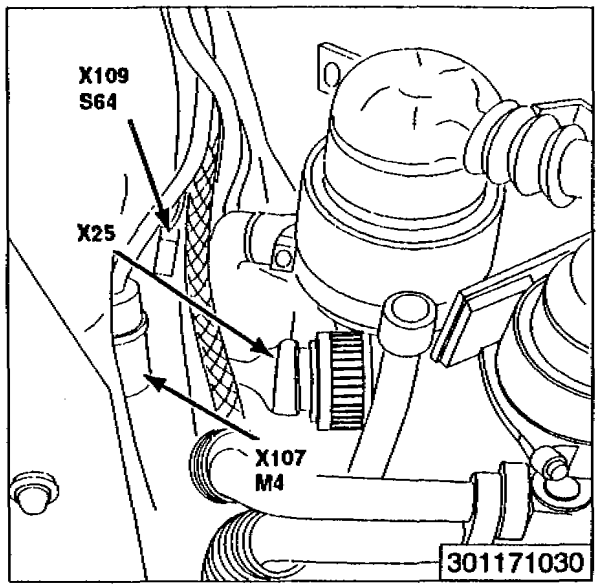


FIG. 1 - RH side of engine compartment

M4 WASHER PUMP
S64 WASHER FLUID LEVEL SWITCH
X25 CONNECTOR (4-PINS, BLACK)
X107 CONNECTOR (2-PINS, GRAY)
X109 CONNECTOR (2-PINS, BLACK)

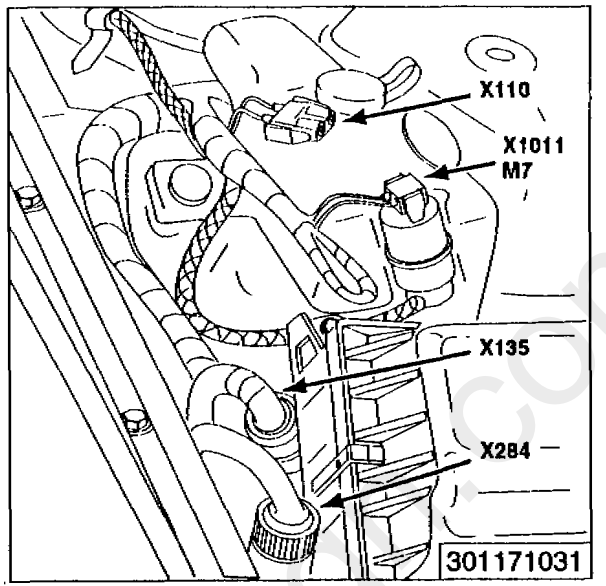


FIG. 2 - RH side of engine compartment

M7 HEADLIGHT/FOG LIGHT WASHER PUMP
X135 CONNECTOR (7-PINS, BLACK)
X110 CONNECTOR (2-PINS, GRAY)
X284 CONNECTOR (4-PINS, BLACK)
X1011 CONNECTOR (2-PINS, GRAY)

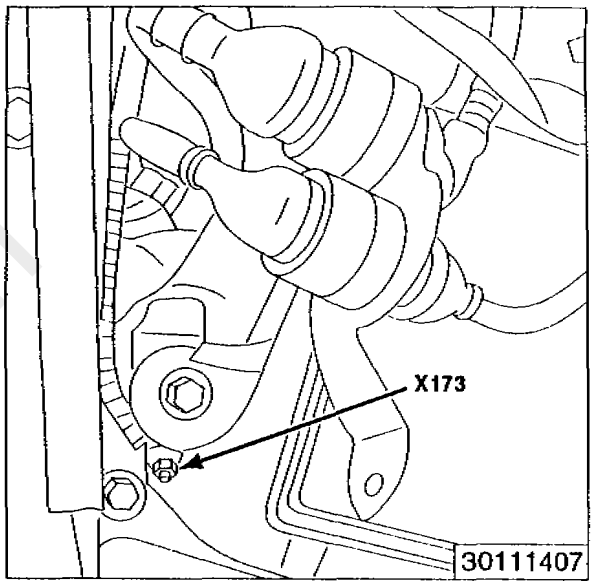


FIG. 3 - Front RH side of engine compartment (headlights removed)

X173 GROUND

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COMPONENT LOCATION VIEWS

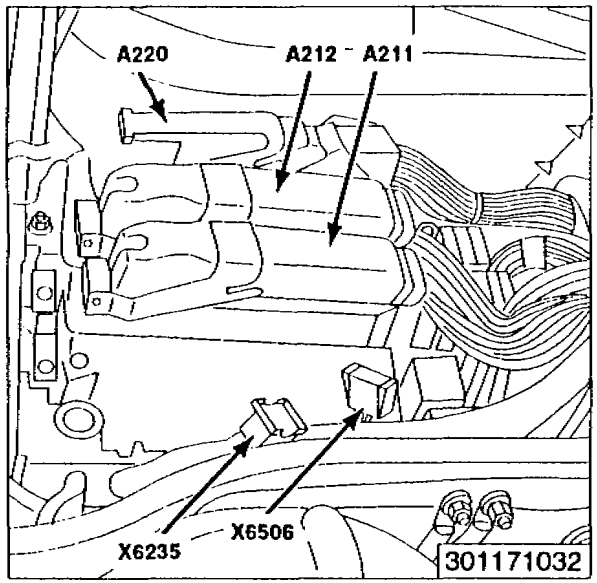


FIG. 1 - Rear RH side of engine compartment in E-Box

A211	CYL. 1-6 ENGINE CONTROL MODULE (DME)
A212	CYL. 7-12 ENGINE CONTROL MODULE (DME)
A220	THROTTLE CONTROL MODULE (EML)
X6235	CONNECTOR (2-PINS, BLACK)
X6506	CONNECTOR (4-PINS, BLACK)

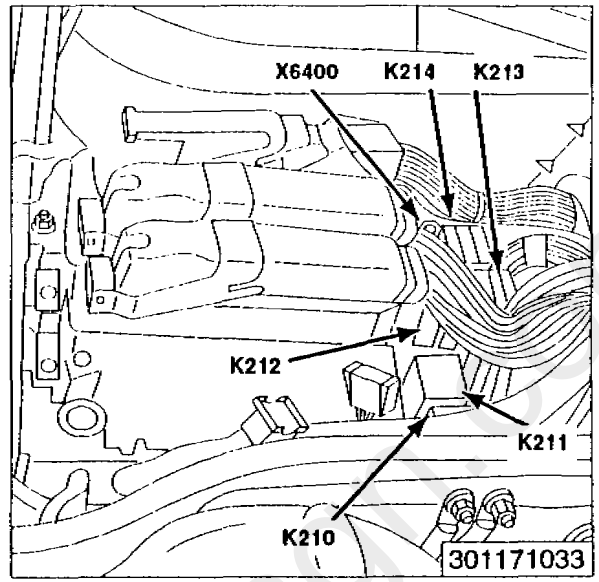


FIG. 2 - Rear RH side of engine compartment in E-Box

K210	CYL. 1-6 FUEL PUMP RELAY
K211	CYL. 7-12 FUEL PUMP RELAY
K212	CYL. 1-6 ENGINE CONTROL MODULE RELAY
K213	CYL. 7-12 ENGINE CONTROL MODULE RELAY
K214	OXYGEN SENSOR RELAY
X6400	B+ JUNCTION POINT

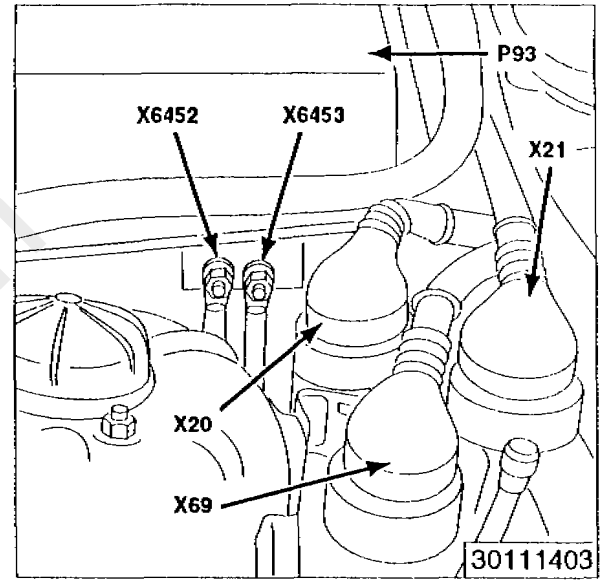


FIG. 3 - Rear RH side of engine compartment ahead of RH side shock tower

P93	E-BOX
X20	CONNECTOR (25-PINS, GRAY)
X21	CONNECTOR (25-PINS, BLUE)
X69	CONNECTOR (25-PINS, BLACK)
X6452	GROUND
X6453	GROUND

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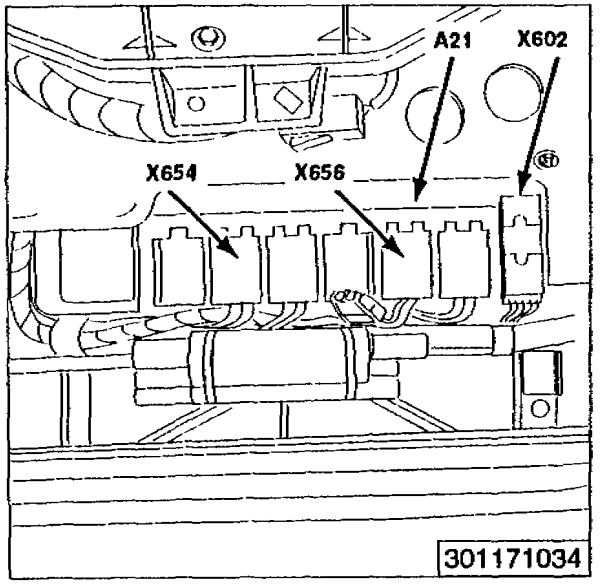


FIG 1 - Underside of LH front seat

A21 SEAT/MIRROR MEMORY CONTROL MODULE
X602 CONNECTOR (26-PINS, WHITE)
X654 CONNECTOR (6-PINS, BLACK)
X656 CONNECTOR (6-PINS, GREEN)

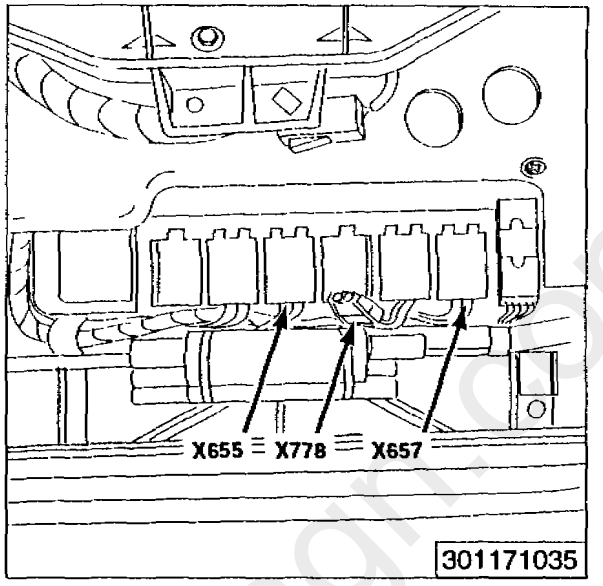


FIG 2 - Underside of LH front seat

X655 CONNECTOR (6-PINS, BLUE)
X657 CONNECTOR (6-PINS, BLUE)
X778 CONNECTOR (2-PINS, BLACK)

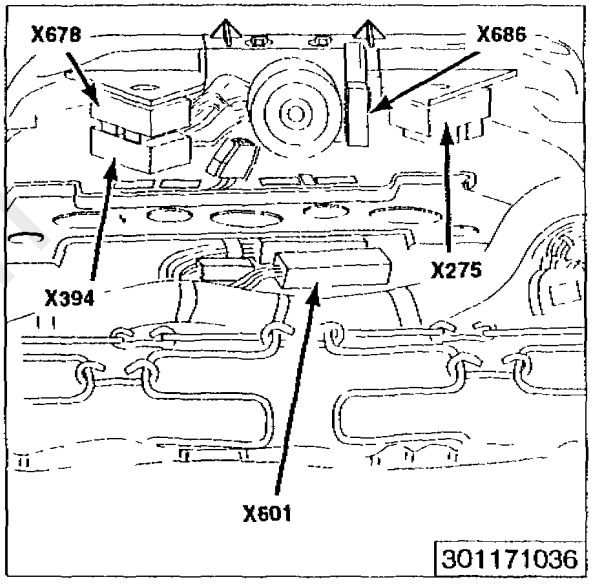


FIG 3 - Underside of LH front seat

X275 CONNECTOR (12-PINS, WHITE)
X394 CONNECTOR (12-PINS, BLACK)
X601 CONNECTOR (26-PINS, YELLOW)
X678 CONNECTOR (12-PINS, WHITE)
X686 CONNECTOR (3-PINS, BLUE)

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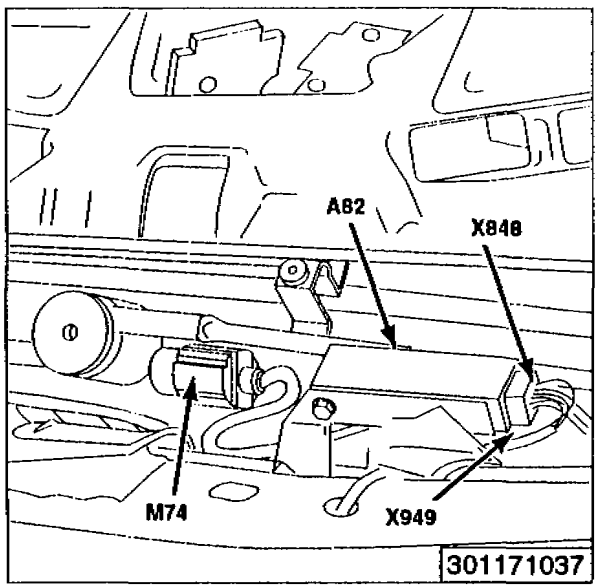


FIG. 1 - Underside of LH rear seat under trim panel

A82 SUN BLIND CONTROL MODULE
M74 SUN BLIND MOTOR
X848 CONNECTOR (4-PINS, GREEN)
X949 CONNECTOR (5-PINS, BLACK)

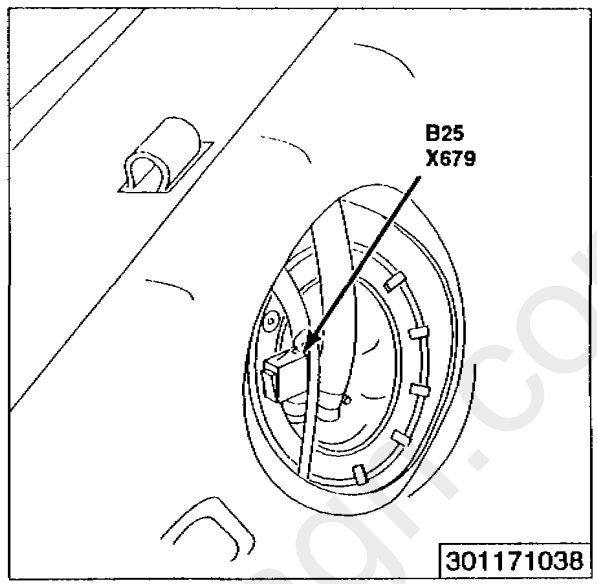


FIG. 2 - Under LH rear seat

B25 FUEL LEVEL SENSOR II
X679 CONNECTOR (2-PINS, WHITE)

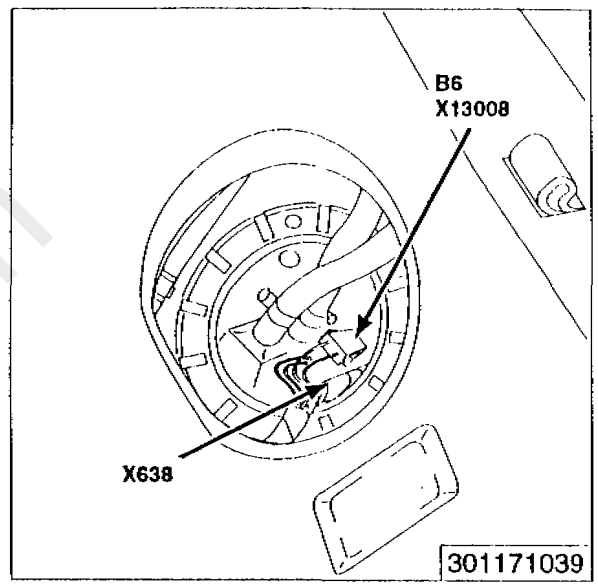


FIG. 3 - Under RH rear seat

B6 FUEL LEVEL SENSOR
X638 CONNECTOR (3-PINS, BLACK)
X13008 CONNECTOR (2-PINS, WHITE)

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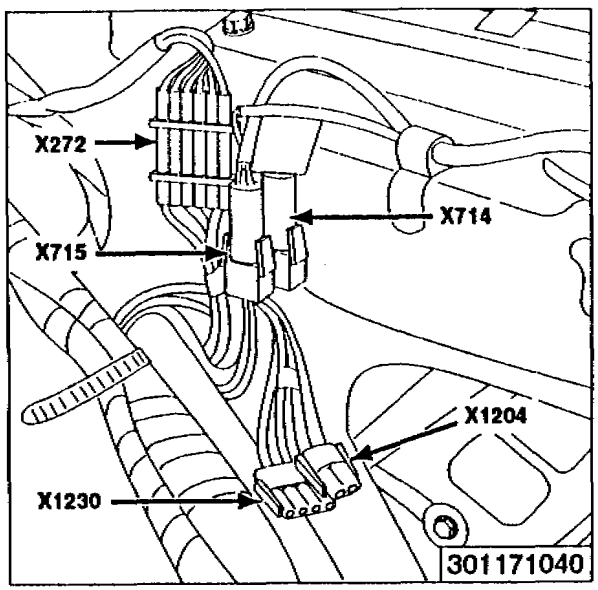


FIG. 1 - Left from LH rear seat behind trim panel

X272 CONNECTOR (6-PINS, BLACK)
X714 CONNECTOR (4-PINS, BLACK)
X715 CONNECTOR (2-PINS, BLACK)
X1204 CONNECTOR (2-PINS, WHITE)
X1230 CONNECTOR (4-PINS, WHITE)

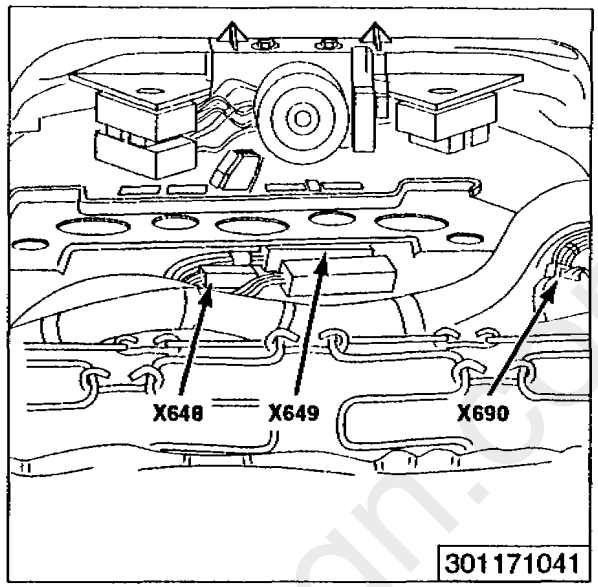


FIG. 2 - Underside of LH front seat

X648 CONNECTOR (6-PINS, BLACK)
X649 CONNECTOR (6-PINS, WHITE)
X690 CONNECTOR (3-PINS, BLUE)

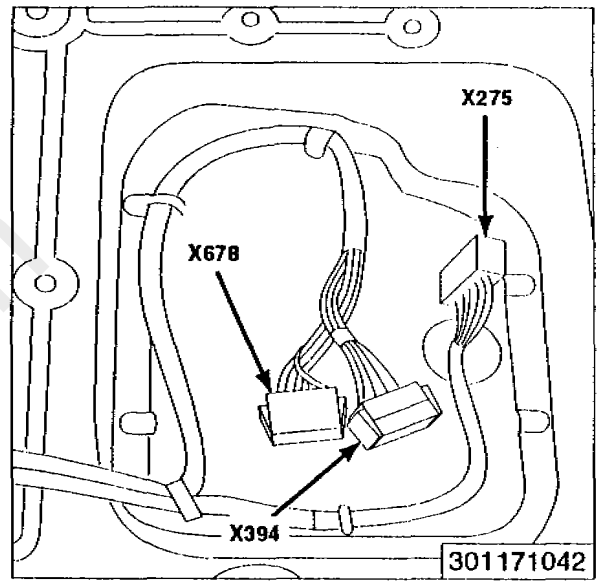


FIG. 3 - Under LH front seat under carpet

X275 CONNECTOR (12-PINS, WHITE)
X394 CONNECTOR (12-PINS, BLACK)
X678 CONNECTOR (12-PINS, WHITE)

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COMPONENT LOCATION VIEWS

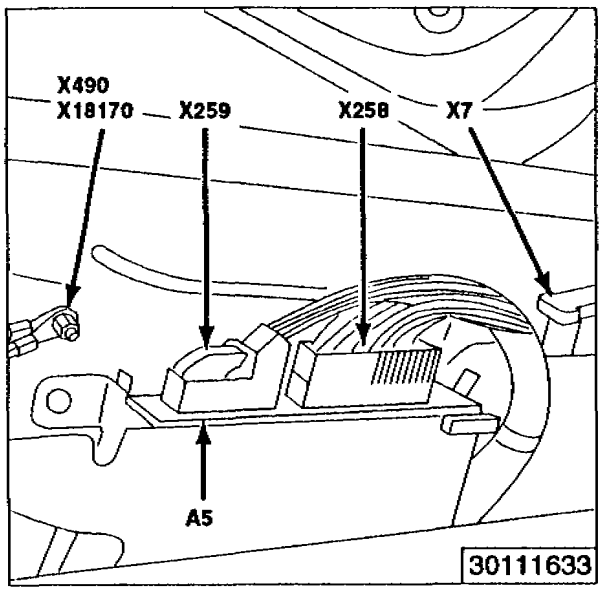


FIG. 1 - Inside box on interior side of LH door sill

- A5 RELAY MODULE
- X7 CONNECTOR (55-PINS, NATURAL)
- X258 CONNECTOR (20-PINS, BLACK)
- X259 CONNECTOR (26-PINS, BLACK)
- X490 GROUND
- X18170 GROUND

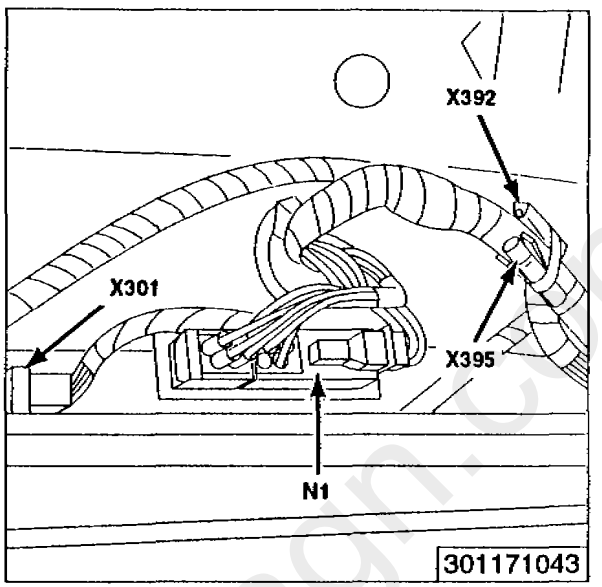


FIG. 2 - Interior side of RH door sill

- N1 ANTI-THEFT CONTROL MODULE (DWA)
- X301 CONNECTOR (26-PINS, WHITE)
- X392 CONNECTOR (1-PINS, BLUE)
- X395 CONNECTOR (1-PINS, YELLOW)

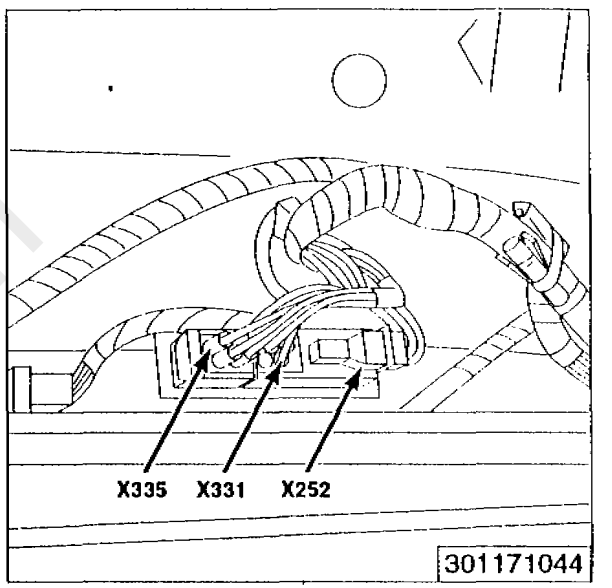


FIG. 3 - Interior side of RH door sill

- X252 CONNECTOR (26-PINS, BLACK)
- X331 CONNECTOR (5-PINS, BLACK)
- X335 CONNECTOR (4-PINS, BLACK)

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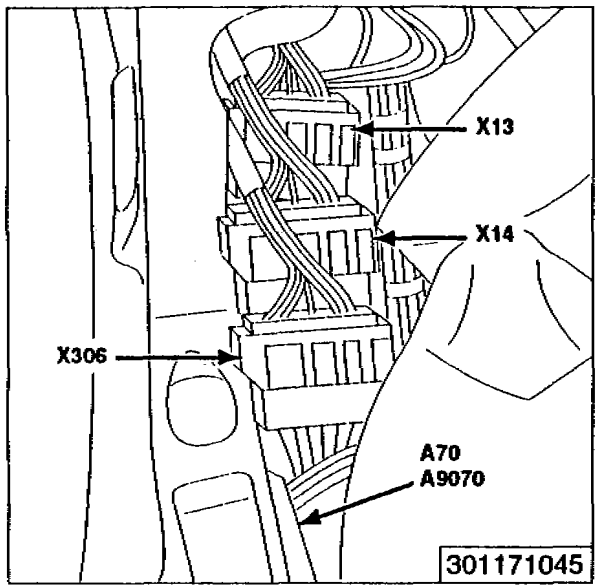


FIG. 1 - LH footwell under footrest

- A70 SLIP CONTROL MODULE (ABS/ ASC)
- A9070 SLIP CONTROL MODULE (ABS/ ASC+T)
- X13 CONNECTOR (30-PINS, BLACK)
- X14 CONNECTOR (30-PINS, WHITE)
- X306 CONNECTOR (30-PINS, BLUE)

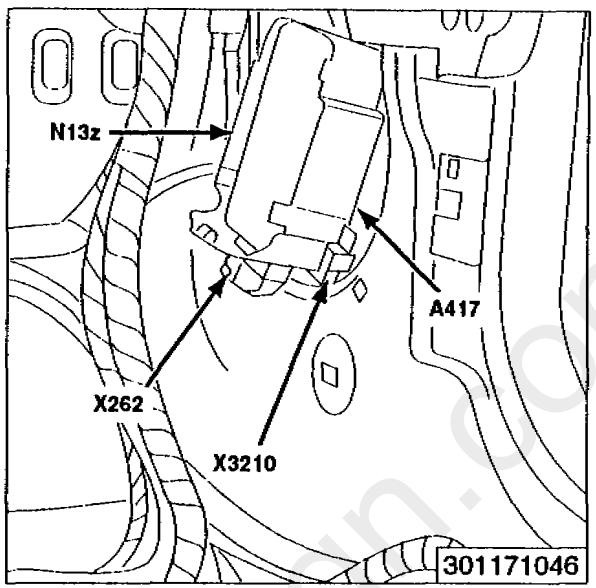


FIG. 2 - Behind RH footwell kickpanel

- A417 AUTOMATIC AIR RECIRCULATION CONTROL MODULE
- N13z COMPACT INFRARED LOCKING
- X262 CONNECTOR (26-PINS, YELLOW)
- X3210 CONNECTOR (26-PINS, BLUE)

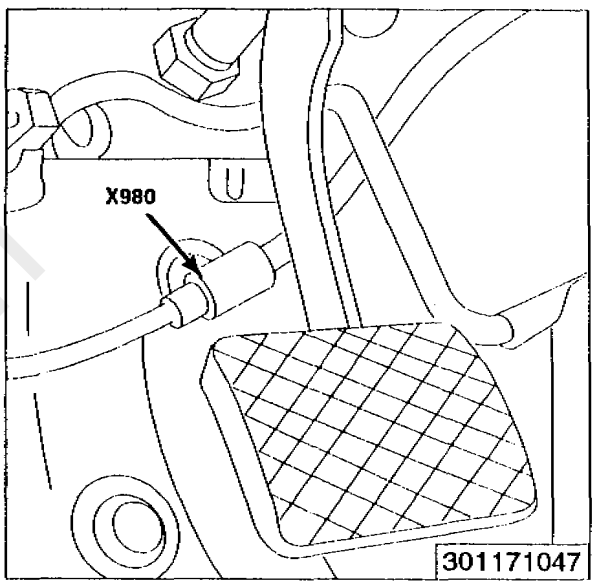


FIG. 3 - RH side of LH footwell under carpet

- X980 SPLICE

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COMPONENT LOCATION VIEWS

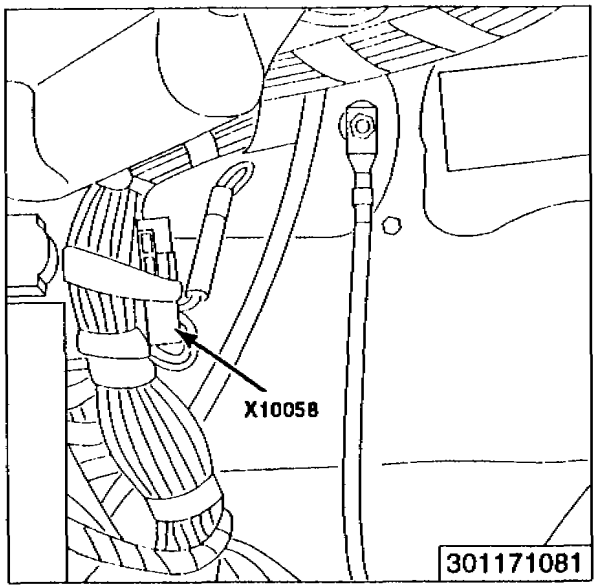


FIG. 1 - LH footwell under footrest

X10058 CONNECTOR (1-PINS, YELLOW)

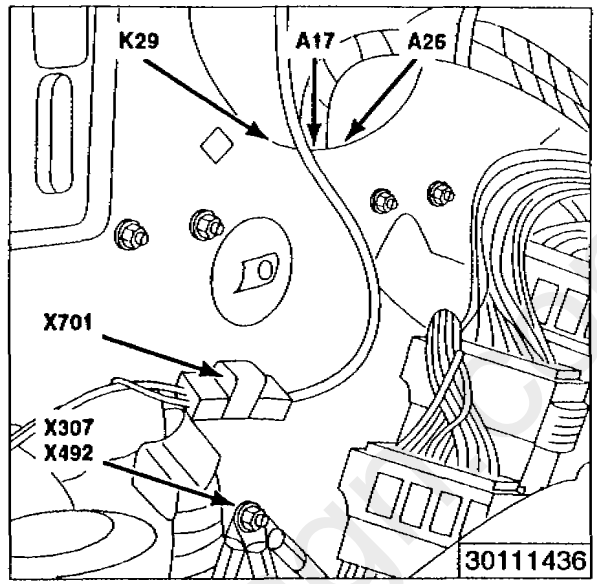


FIG. 2 - LH side of LH footwell

A17 SERVOTRONIC CONTROL MODULE
A26 LOCK-SENSOR CONTROL MODULE
K29 INTERIOR LIGHT RELAY
X307 GROUND
X492 GROUND
X701 CONNECTOR (2-PINS, BLACK)

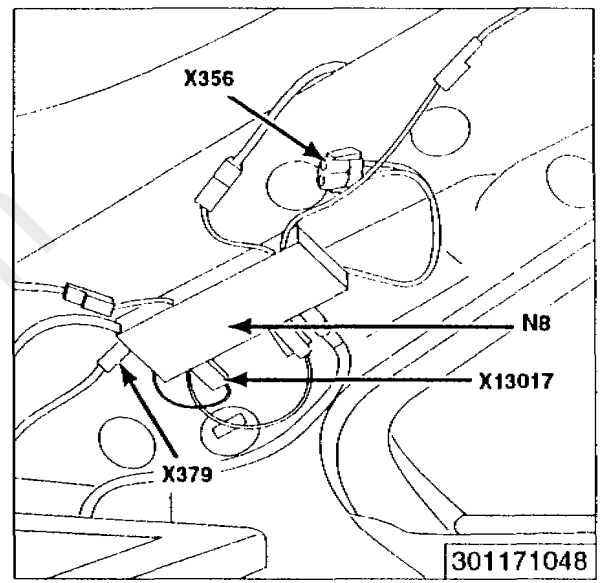


FIG. 3 - In upper LH C-pillar

N8 ANTENNA AMPLIFIER AM/FM
X356 CONNECTOR (2-PINS, BLACK)
X379 CONNECTOR (1-PINS, BLACK)
X13017 CONNECTOR (1-PINS, (---))

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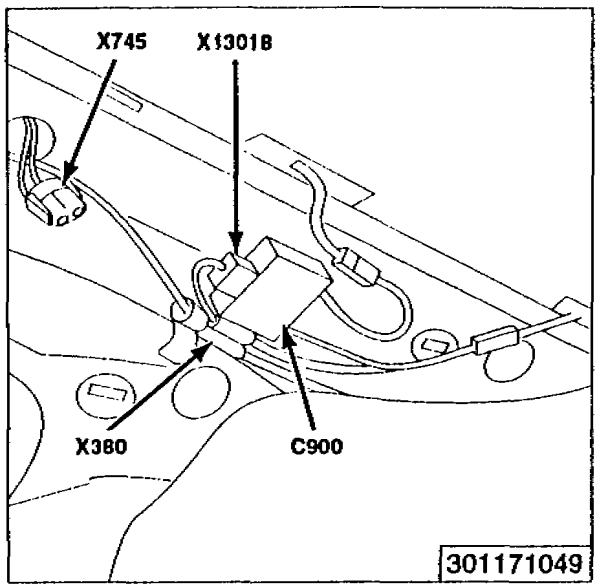


FIG. 1 - In upper RH C-pillar

C900	SUPPRESSION FILTER
X380	CONNECTOR (1-PINS, BLACK)
X745	CONNECTOR (2-PINS, BLACK)
X13018	CONNECTOR (1-PINS, BLACK)

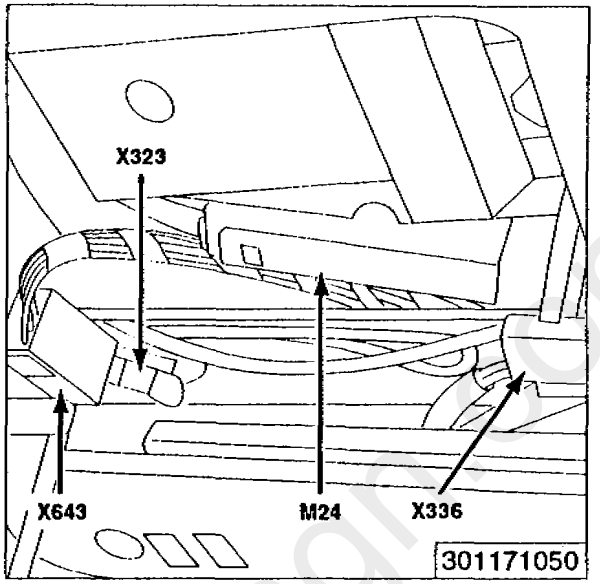


FIG. 2 - Center of windshield header

M24	SUNROOF MOTOR
X323	CONNECTOR (6-PINS, WHITE)
X336	CONNECTOR (4-PINS, WHITE)
X643	CONNECTOR (6-PINS, BLUE)

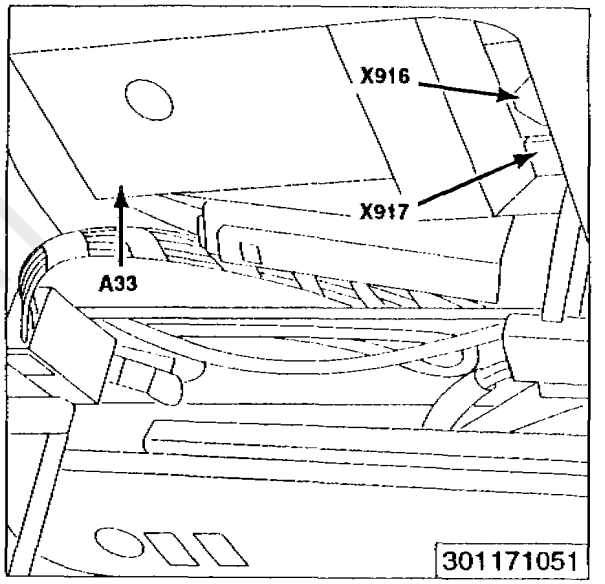


FIG. 3 - Center of windshield header

A33	SUNROOF MODULE
X916	CONNECTOR (5-PINS, BLACK)
X917	CONNECTOR (6-PINS, BLACK)

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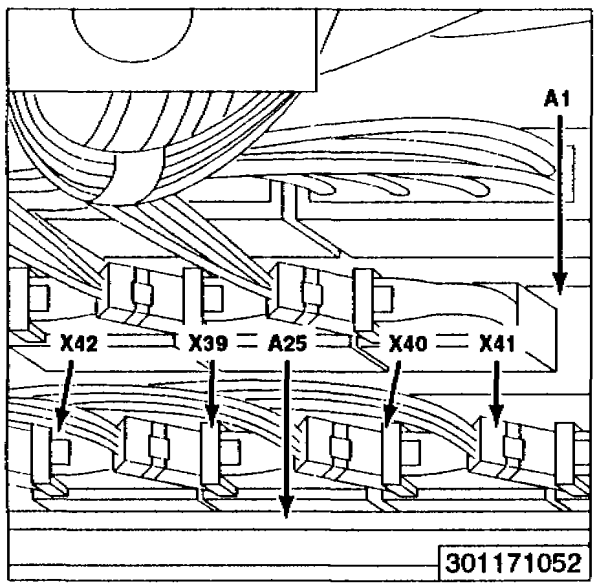


FIG. 1 - Below LH side of dash

A1	GENERAL MODULE
A25	BODY ELECTRONICS MODULE
X39	CONNECTOR (26-PINS, GREEN)
X40	CONNECTOR (26-PINS, BROWN)
X41	CONNECTOR (26-PINS, BLUE)
X42	CONNECTOR (26-PINS, BLACK)

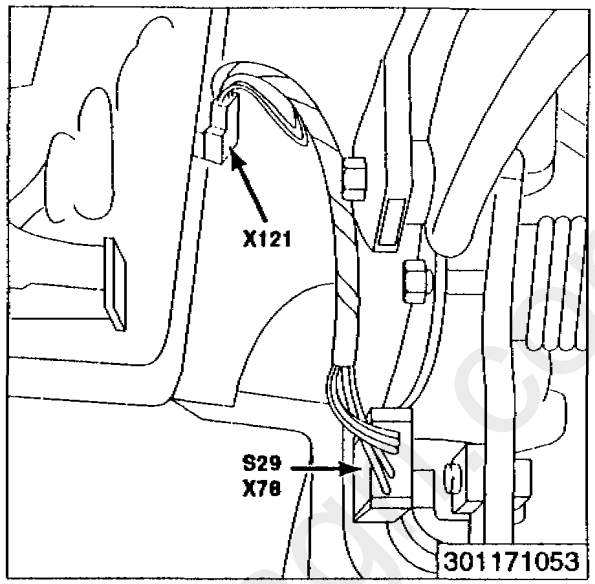


FIG. 2 - Below LH side of dash

S29	BRAKE LIGHT SWITCH
X78	CONNECTOR (4-PINS, BLACK)
X121	CONNECTOR (2-PINS, WHITE)

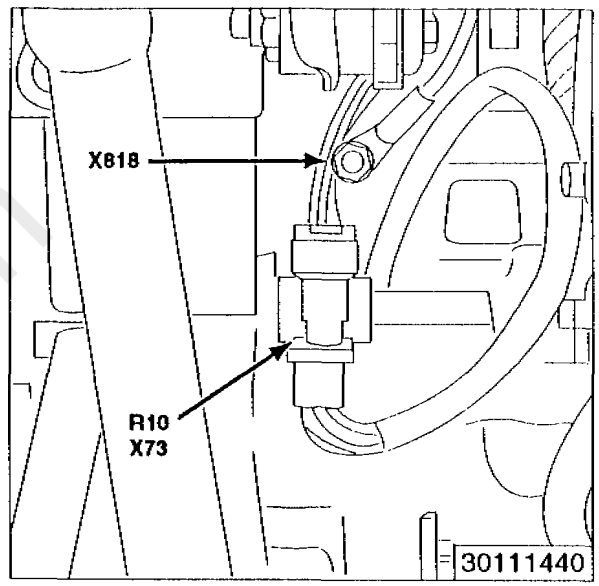


FIG. 3 - Below LH side of dash

R10	PEDAL POSITION SENSOR
X73	CONNECTOR (8-PINS, WHITE)
X818	GROUND

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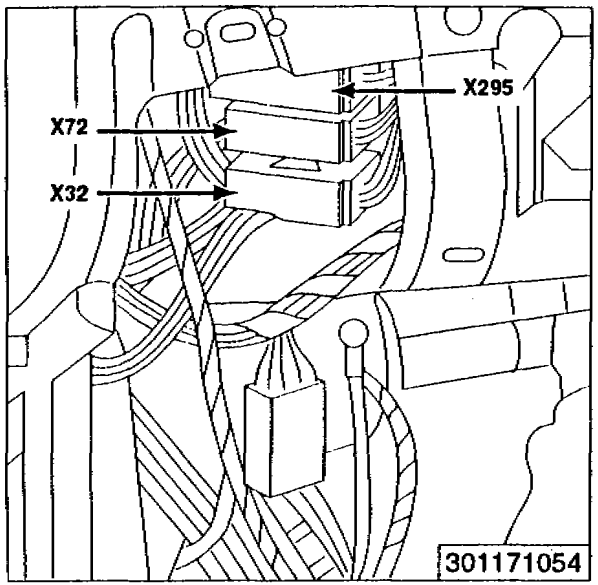


FIG. 1 - Below LH side of dash

X32 CONNECTOR (12-PINS, WHITE)
X72 CONNECTOR (8-PINS, WHITE)
X295 CONNECTOR (8-PINS, BLACK)

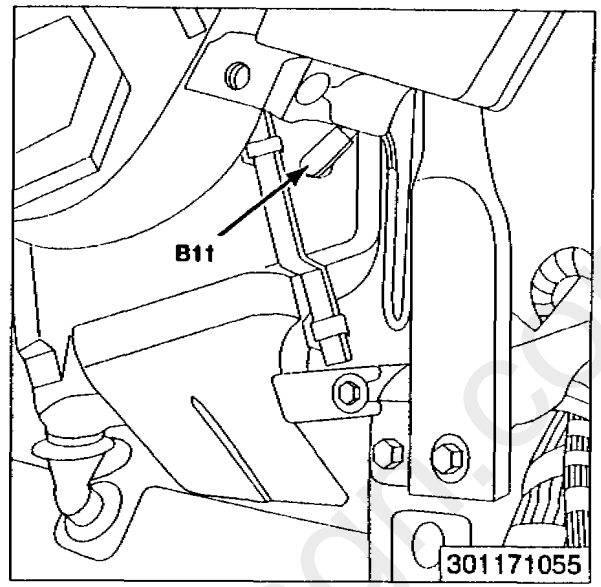


FIG. 2 - Below LH side of dash on LH side of IHKA Plenum

B11 LH HEAT EXCHANGER TEMPERATURE SENSOR

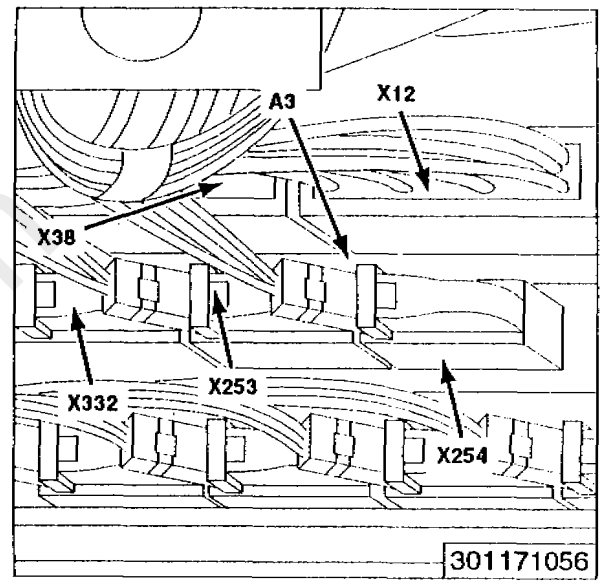


FIG. 3 - Below LH side of dash

A3 LAMP CONTROL MODULE
X12 CONNECTOR (20-PINS, WHITE)
X38 CONNECTOR (20-PINS, BLACK)
X253 CONNECTOR (26-PINS, BLACK)
X254 CONNECTOR (26-PINS, YELLOW)
X332 CONNECTOR (26-PINS, WHITE)

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COMPONENT LOCATION VIEWS

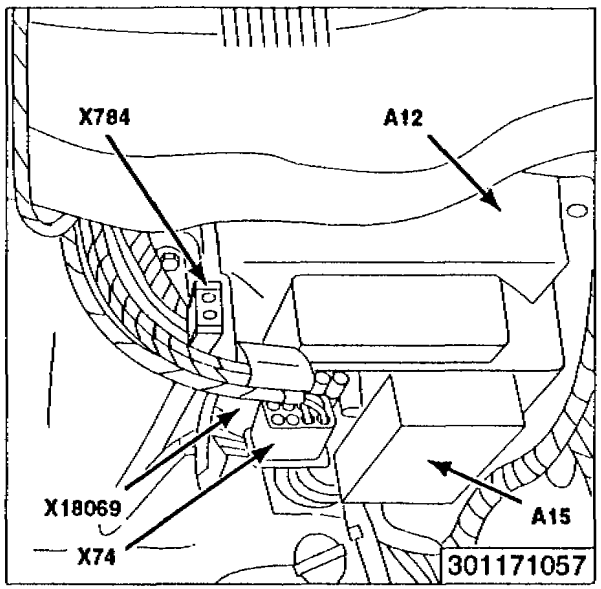


FIG. 1 - Below RH side of dash (glove box removed)

A12	SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE
A15	PARK HEATING/VENTILATION RELAY BOX
X74	CONNECTOR (12-PINS, BLUE)
X18069	CONNECTOR (12-PINS, WHITE)
X784	CONNECTOR (12-PINS, BLACK)

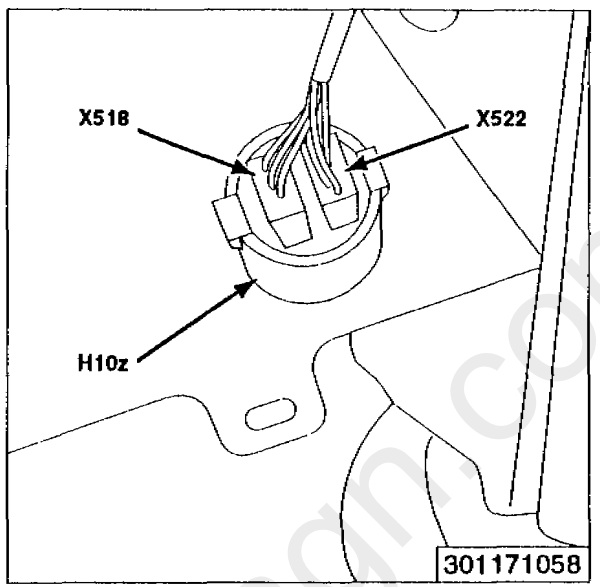


FIG. 2 - Below RH side of dash

H10z	ACOUSTIC DEVICE
X518	CONNECTOR (4-PINS, BLACK)
X522	CONNECTOR (3-PINS, WHITE)

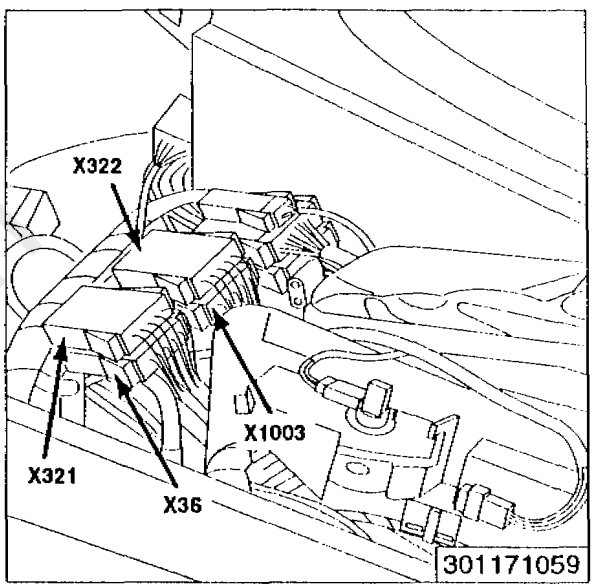


FIG. 3 - Center console

X36	CONNECTOR (21-PINS, BLACK)
X321	CONNECTOR (4-PINS, BLACK)
X322	CONNECTOR (8-PINS, BLACK)
X1003	CONNECTOR (12-PINS, BLACK)

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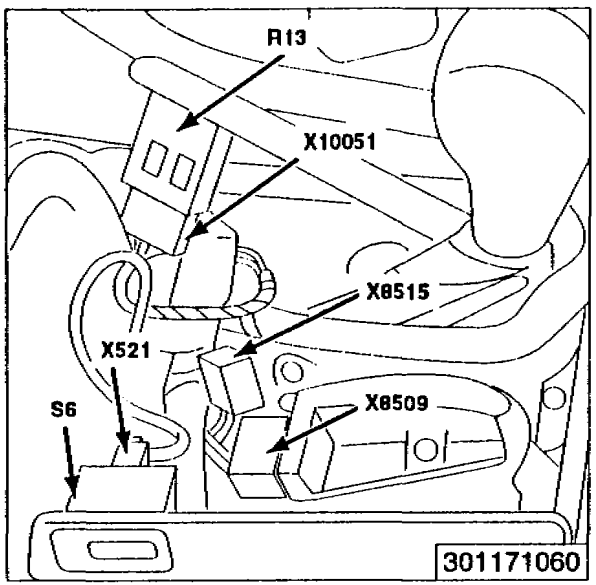


FIG. 1 - Center console

R13	HEADLIGHT WIDENING POTENTIOMETER
S6	ASC SWITCH
X521	CONNECTOR (6-PINS, BLUE)
X8509	CONNECTOR (8-PINS, BLACK)
X8515	CONNECTOR (8-PINS, BLACK)
X10051	CONNECTOR (4-PINS, BLACK)

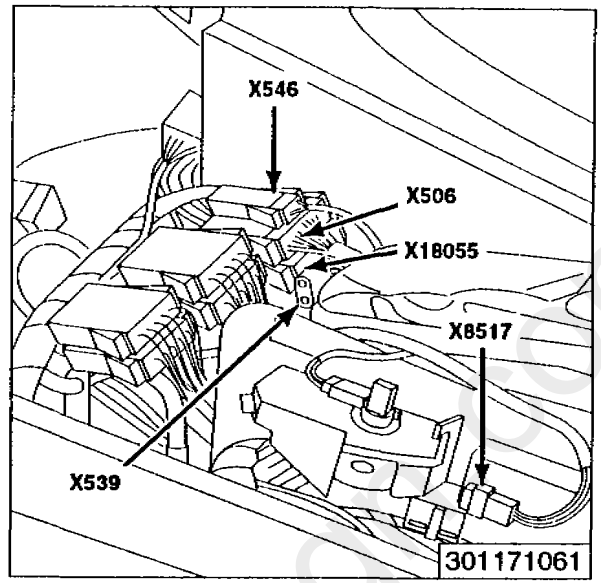


FIG. 2 - Center console

X506	CONNECTOR (12-PINS, WHITE)
X539	CONNECTOR (2-PINS, WHITE)
X546	CONNECTOR (2-PINS, WHITE)
X8517	CONNECTOR (10-PINS, BLACK)
X18055	CONNECTOR (12-PINS, BLACK)

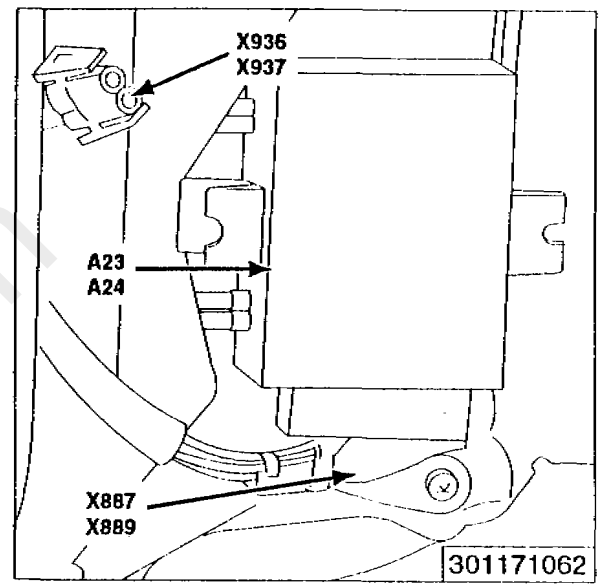


FIG. 3 - In lower LH front door right (RH similar)

A23	DRIVER'S DOOR MODULE
A24	PASSENGER'S DOOR MODULE
X887	CONNECTOR (26-PINS, BLACK)
X889	CONNECTOR (26-PINS, WHITE)
X936	CONNECTOR (2-PINS, WHITE)
X937	CONNECTOR (2-PINS, WHITE)

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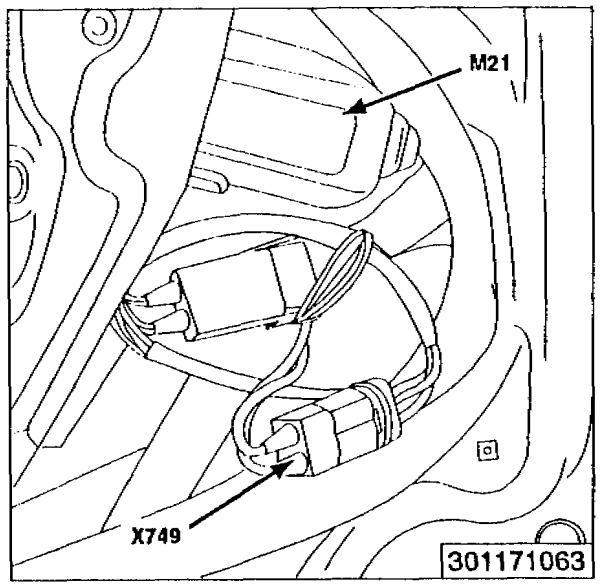


FIG. 1 - In lower LH front door right (RH similar)

M21 DRIVER'S WINDOW MOTOR
X749 CONNECTOR (6-PINS, BLACK)

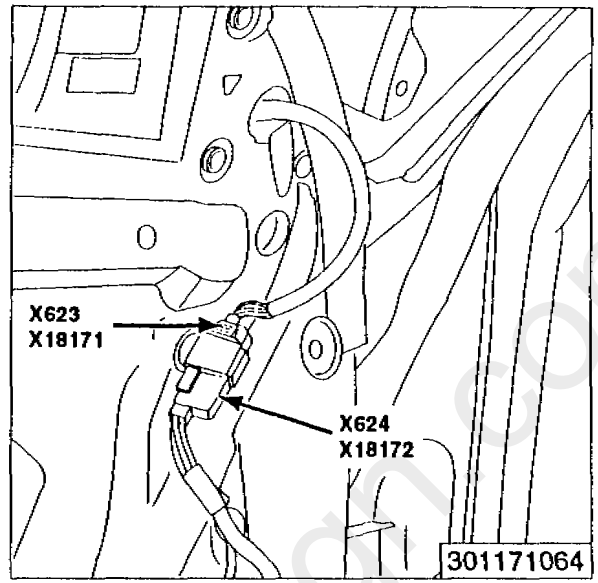


FIG. 2 - In upper LH front door right (RH similar)

X623 CONNECTOR (10-PINS, BLACK)
X624 CONNECTOR (10-PINS, BLACK)
X18171 CONNECTOR (10-PINS, BLACK)
X18172 CONNECTOR (10-PINS, BLACK)

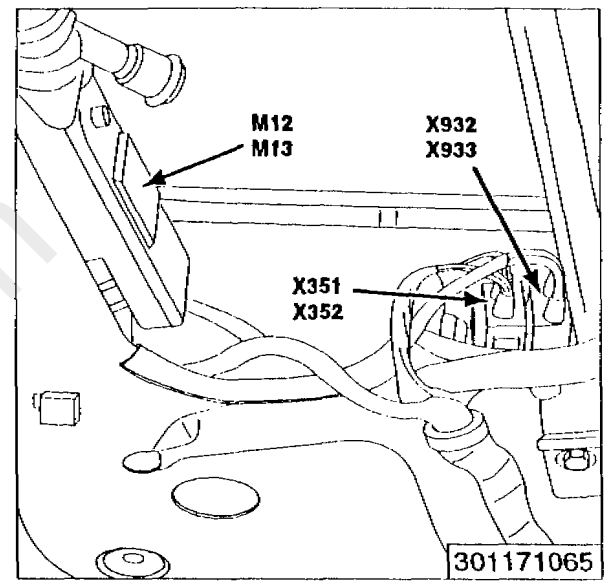


FIG. 3 - In lower LH front door left (RH similar)

M12 DRIVER'S DOOR LOCK MOTOR
M13 PASSENGER'S DOOR LOCK MOTOR
X351 CONNECTOR (2-PINS, BLACK)
X352 CONNECTOR (2-PINS, BLACK)
X932 CONNECTOR (2-PINS, WHITE)
X933 CONNECTOR (2-PINS, GRAY)

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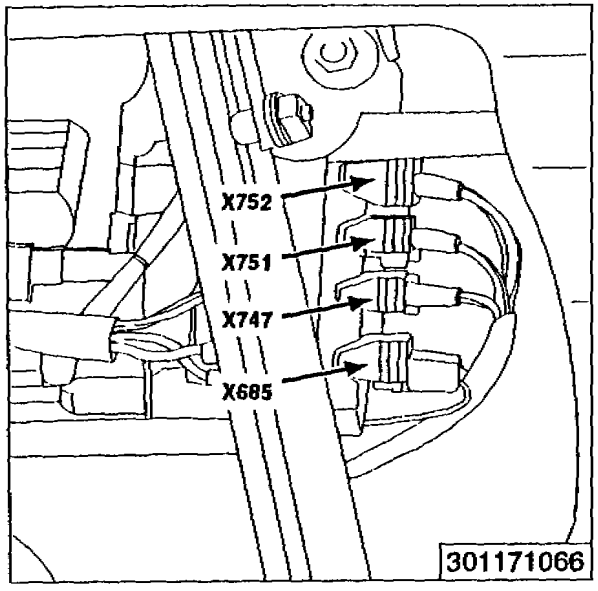


FIG 1 - In upper LH front door left

X685 CONNECTOR (3-PINS, BLACK)
X747 CONNECTOR (2-PINS, YELLOW)
X751 CONNECTOR (2-PINS, WHITE)
X752 CONNECTOR (2-PINS, GRAY)

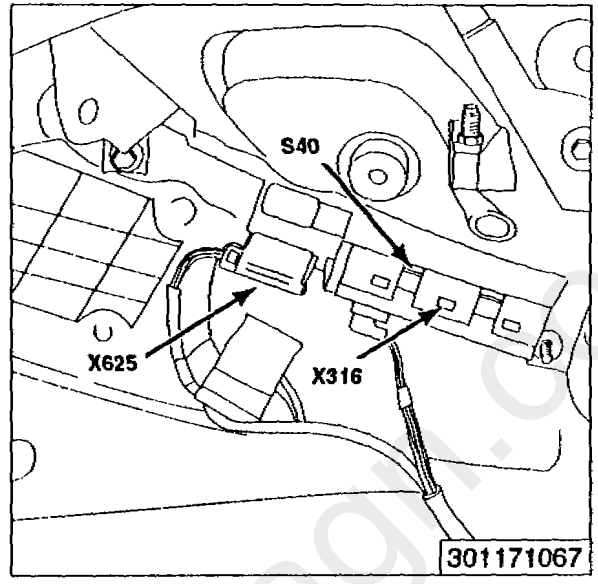


FIG 2 - LH front door behind door panel

S40 FRONT CONSOLE WINDOW SWITCH ASSEMBLY
X316 CONNECTOR (6-PINS, WHITE)
X625 CONNECTOR (6-PINS, WHITE)

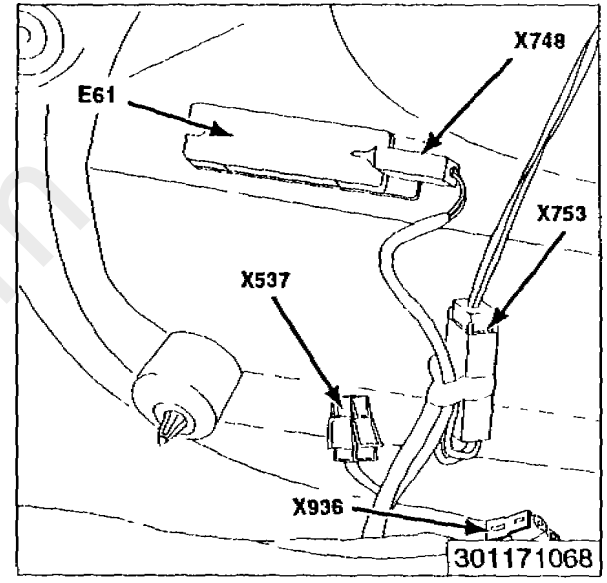


FIG 3 - LH front door behind door panel (RH similar)

E61 LEFT FRONT FOOTWELL LIGHT
X537 CONNECTOR (2-PINS, BLACK)
X748 CONNECTOR (2-PINS, WHITE)
X753 CONNECTOR (2-PINS, BLACK)
X936 CONNECTOR (2-PINS, WHITE)

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COMPONENT LOCATION VIEWS

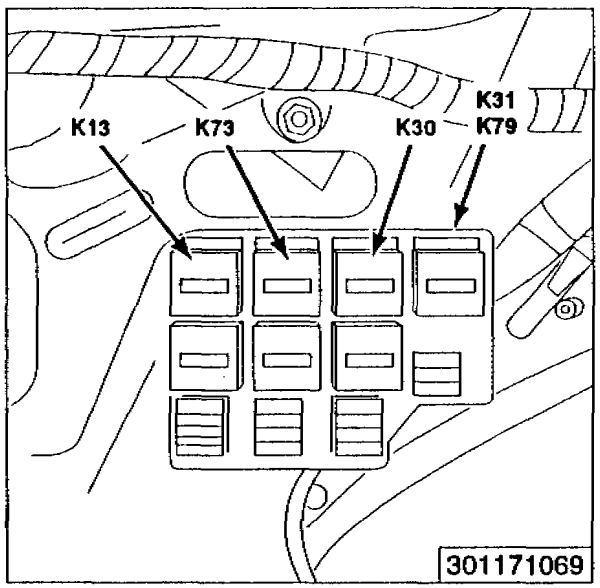


FIG. 1 - In LH side of luggage compartment behind trim panel

- K13 REAR DEFOGGER RELAY
- K30 ELECTRIC POWER PROTECTION RELAY II
- K31 CIGAR LIGHTER RELAY
- K73 CONSUMER CUT-OFF RELAY II
- K79 FOGLIGHT RELAY

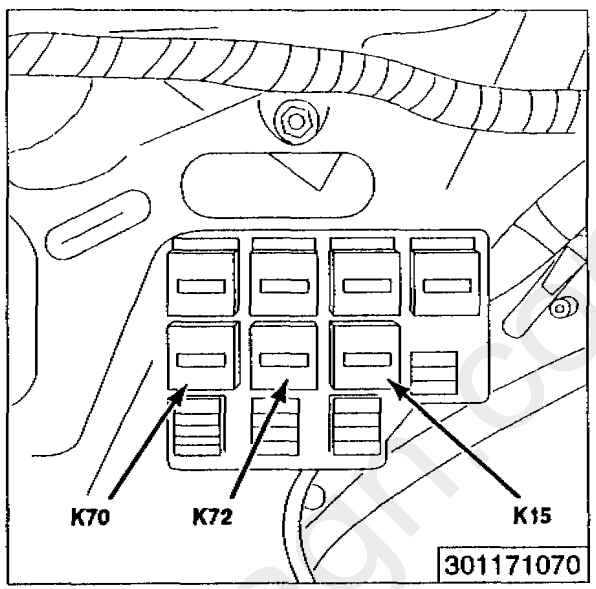


FIG. 2 - In LH side of luggage compartment behind trim panel

- K15 ELECTRIC POWER PROTECTION RELAY
- K70 CENTRAL LOCKING TRUNK LID MOTOR RELAY (ZV)
- K72 CONSUMER CUT-OFF RELAY I

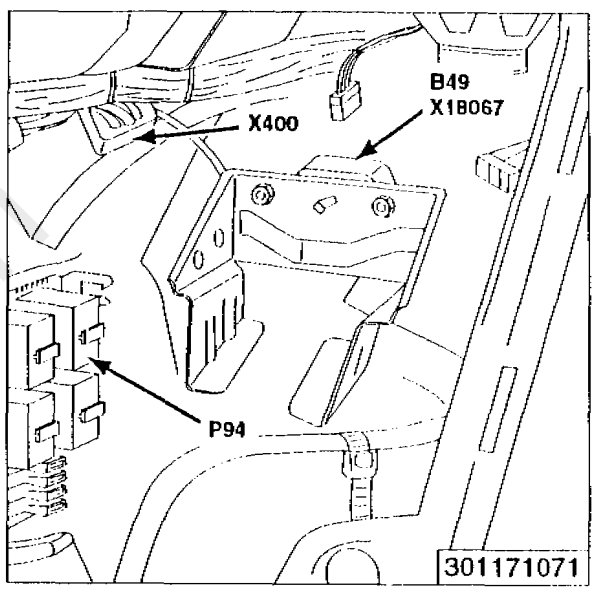


FIG. 3 - In LH forward side of luggage compartment behind trim panel

- B49 LONGITUDINAL ACCELERATION SENSOR
- P94 REAR POWER DISTRIBUTION BOX
- X400 CONNECTOR (8-PINS, BLACK)
- X18067 CONNECTOR (3-PINS, WHITE)

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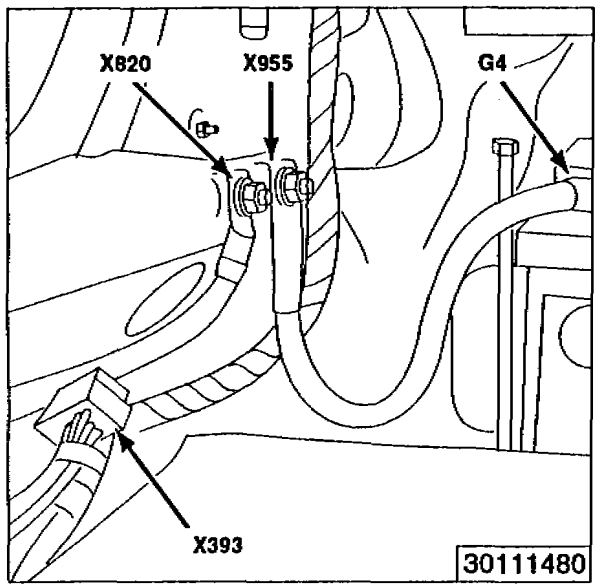


FIG. 1 - In LH rear side of luggage compartment

G4 LEFT BATTERY II
X393 CONNECTOR (8-PINS, BLACK)
X820 GROUND
X955 GROUND

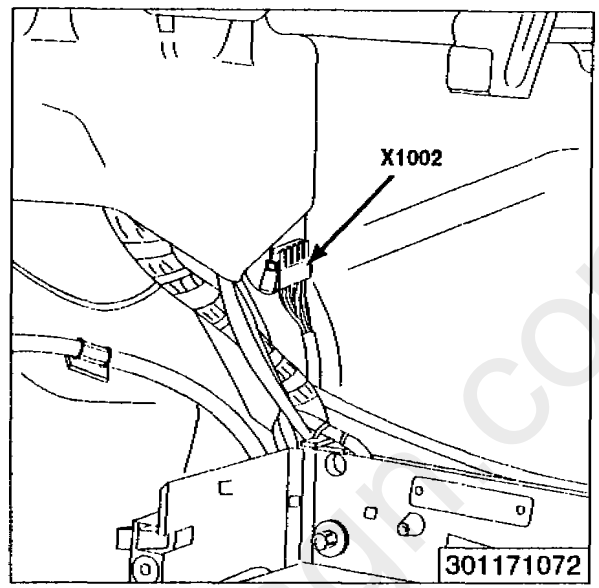


FIG. 2 - In LH rear side of luggage compartment

X1002 CONNECTOR (4-PINS, BLACK)

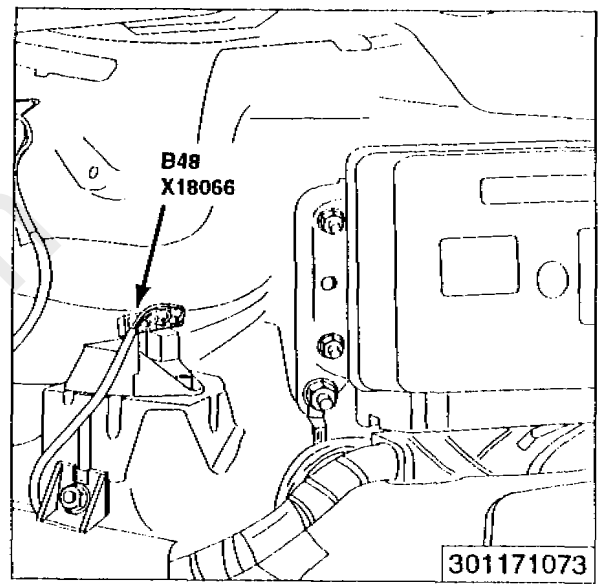


FIG. 3 - In RH rear side of luggage compartment

B48 RIGHT REAR ACCELERATION SENSOR
X18066 CONNECTOR (3-PINS, WHITE)

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COMPONENT LOCATION VIEWS

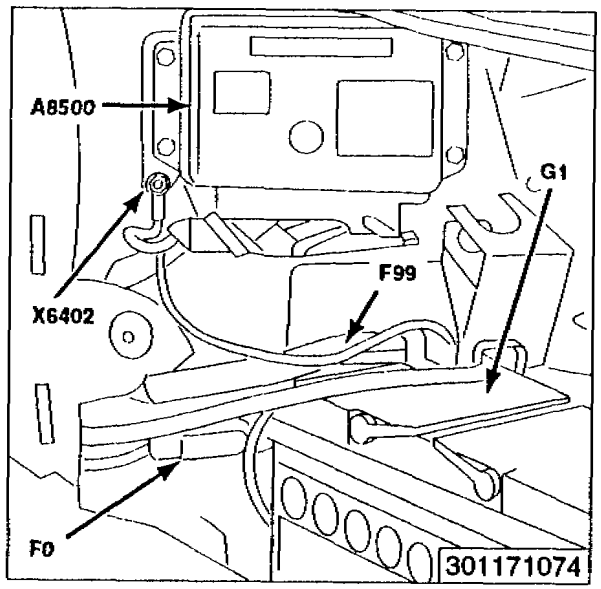


FIG. 1 - In RH side of luggage compartment

A8500	TRANSMISSION CONTROL MODULE (EGS)
F0	FUSIBLE LINK
F99	FUSIBLE LINK (50A)
G1	BATTERY
X6402	GROUND

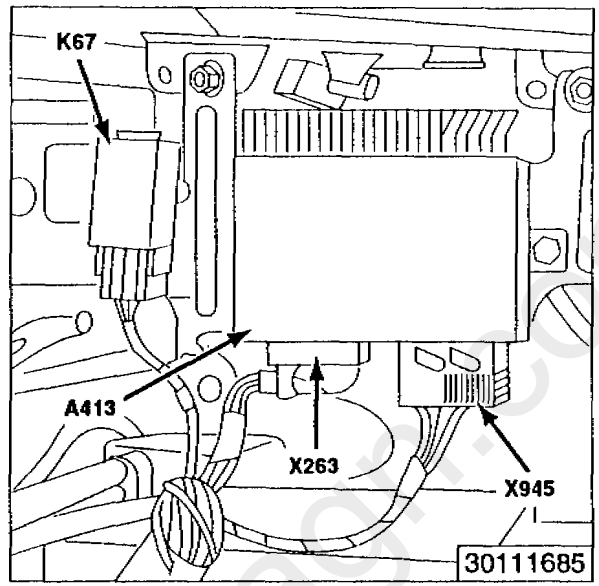


FIG. 2 - In RH side of luggage compartment

A413	ELECTRONIC SHOCK ABSORBER CONTROL MODULE (EDC)
K67	EDC RELAY
X263	CONNECTOR (26-PINS, WHITE)
X945	CONNECTOR (10-PINS, WHITE)

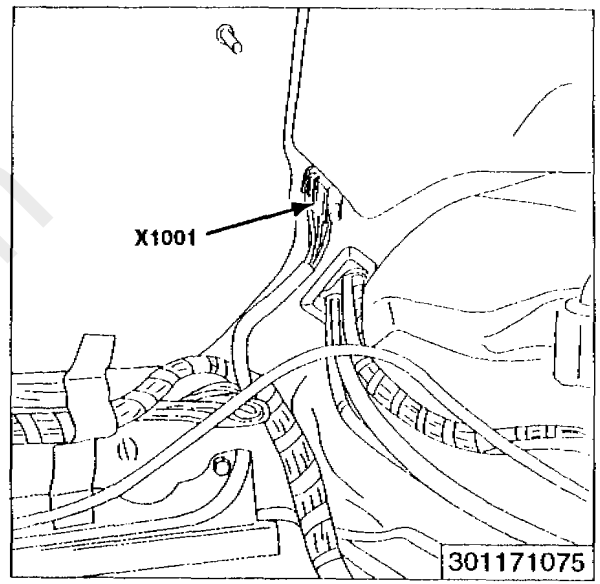


FIG. 3 - In RH rear side of luggage compartment

X1001	CONNECTOR (4-PINS, BLACK)

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COMPONENT LOCATION VIEWS

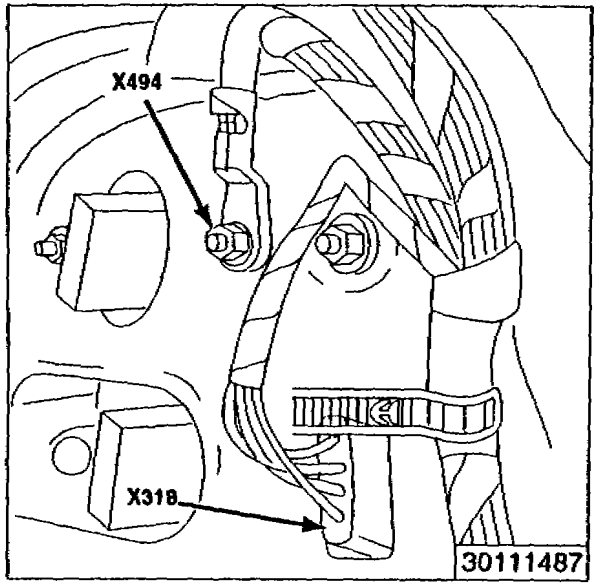


FIG 1 - In RH rear side of luggage compartment

X494 GROUND
X318 CONNECTOR (6-PINS, BLACK)

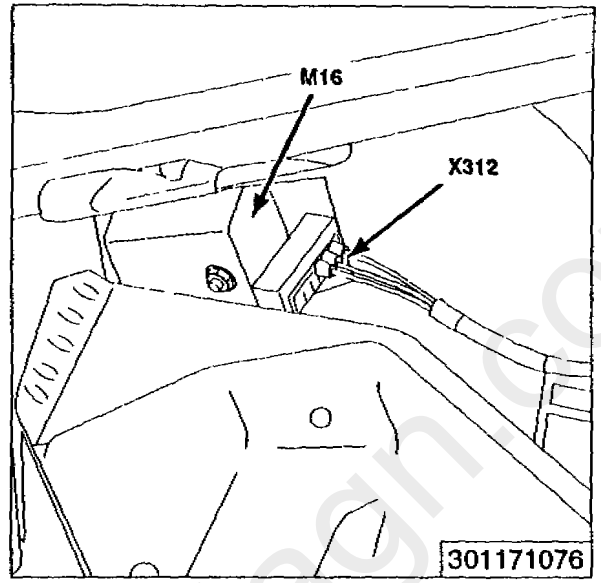


FIG 2 - In RH side of luggage compartment

M16 GAS FILLER LOCK MOTOR
X312 CONNECTOR (6-PINS, BLACK)

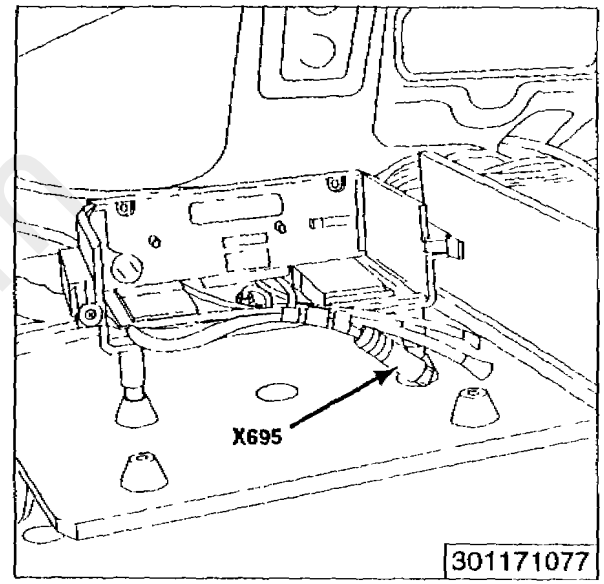


FIG 3 - In LH rear side of luggage compartment

X695 CONNECTOR (3-PINS, BLACK)

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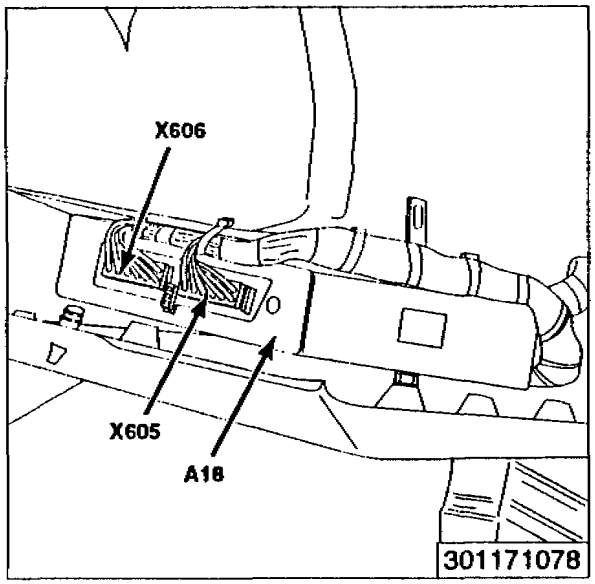


FIG. 1 - In LH rear side of luggage compartment

A18 HIFI AMPLIFIER
X605 CONNECTOR (12-PINS, BLACK)
X606 CONNECTOR (12-PINS, WHITE)

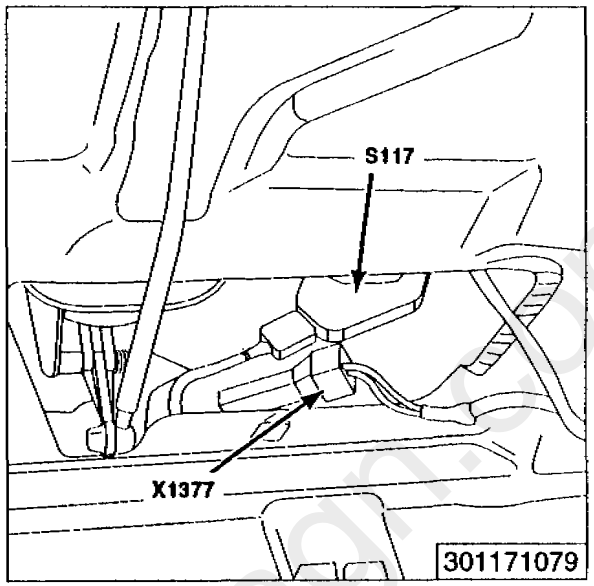


FIG. 2 - Underside of trunk lid

S117 TRUNK LID LOCKING SWITCH
X1377 CONNECTOR (2-PINS, BLACK)

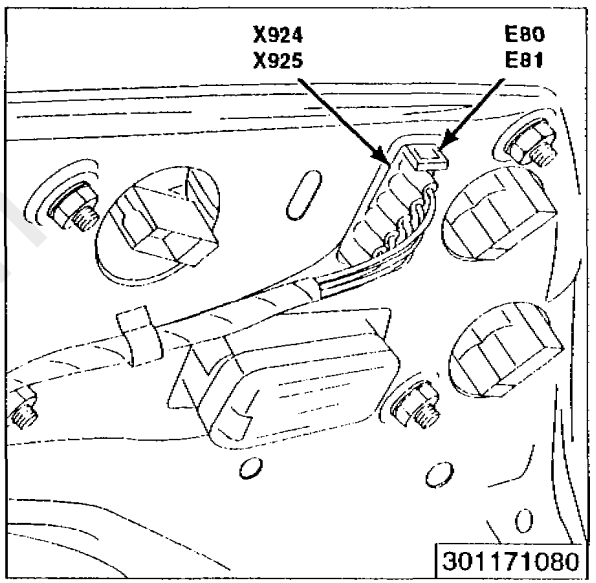


FIG. 3 - Underside of trunk lid right (LH similar)

E80 LEFT REAR LIGHT ASSEMBLY II
E81 RIGHT REAR LIGHT ASSEMBLY II
X924 CONNECTOR (6-PINS, BLACK)
X925 CONNECTOR (6-PINS, BLACK)

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SPLICE LOCATION VIEWS

SPLICE LOCATION INDEX

SPLICE	HARNESS	PAGE NUMBER
X181-X190	FRONT	8000.0-02
X195	CHASSIS	8000.0-03
X196-X208	FRONT	8000.0-02
X210	CHASSIS	8000.0-03
X212-X265	FRONT	8000.0-02
X267	REAR	8000.0-04
X276	FRONT	8000.0-02
X427-X486	REAR	8000.0-04
X557	GLOVE BOX LIGHTS	NOT SHOWN
X558-X565	REAR	8000.0-04
X566-X567	CHASSIS	NOT SHOWN
X568-X704	REAR	8000.0-04
X801	FRONT	8000.0-02
X805	REAR	8000.0-04
X806	FRONT	8000.0-02
X823	TRAILER ADAPTER	NOT SHOWN
X824-X830	RADIO	NOT SHOWN
X833	REAR	8000.0-04
X840	DRIVER'S SEAT	NOT SHOWN
X844	PASSENGER'S SEAT	NOT SHOWN
X848-X851	DRIVER'S DOOR	NOT SHOWN
X852-X859	IHKA	NOT SHOWN
X878	RADIO	NOT SHOWN
X891-X892	PASSENGER'S DOOR	NOT SHOWN
X894	REAR	8000.0-04
X926-X927	DRIVER'S DOOR	NOT SHOWN
X928-X929	PASSENGER'S DOOR	NOT SHOWN
X934	DRIVER'S DOOR	NOT SHOWN
X935	PASSENGER'S DOOR	NOT SHOWN
X939	REAR	8000.0-04
X943	SUNSHADE	NOT SHOWN
X960-X980	BATTERY	NOT SHOWN
X1006	REAR	8000.0-04
X1017-X1018	CHASSIS	8000.0-03
X1022-X1036	FRONT	8000.0-02
X1183-X1200	FRONT	8000.0-02
X1202-X1215	REAR	8000.0-04
X1351-X1356	CHASSIS	8000.0-03
X1359-X1378	REAR	8000.0-04
X1411-X1414	CHASSIS	8000.0-03
X6411-X8047	ENGINE	NOT SHOWN
X10014-X10056	FRONT	8000.0-02
X10064	CHASSIS	8000.0-03
X10090	REAR	8000.0-04
X13000	REAR	8000.0-04
X13133-X13141	REAR	8000.0-04
X18026-X18046	CHASSIS	8000.0-03
X18048	REAR	8000.0-04
X18056-X18087	CHASSIS	8000.0-03
X18091	DRIVER'S SEAT	NOT SHOWN
X18092	PASSENGER'S SEAT	NOT SHOWN
X18100-X18106	DRIVER'S SEAT	NOT SHOWN
X18108	PARK HEATING/VENTILATION	NOT SHOWN
X18121-X18122	REAR	8000.0-04
X18123	DRIVER'S DOOR	NOT SHOWN
X18140-X18142	IHKA	NOT SHOWN

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SPLICE LOCATION VIEWS

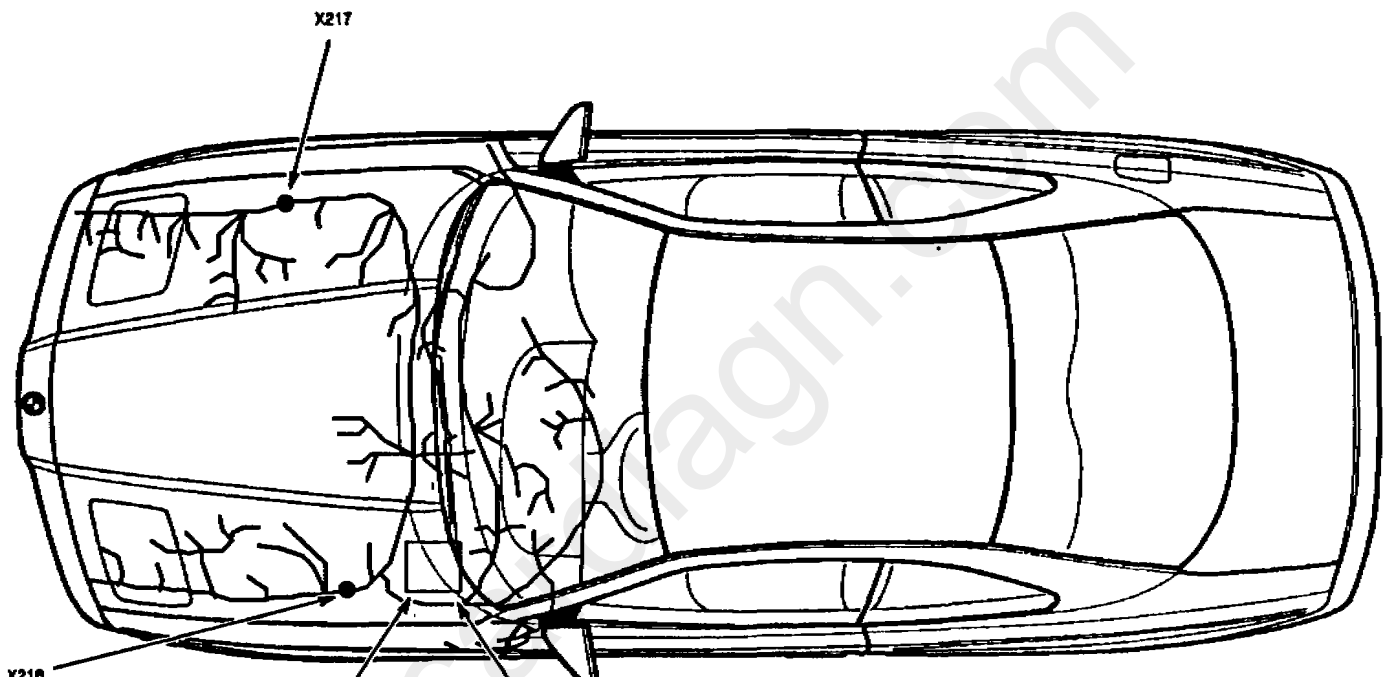
SPLICE LOCATION INDEX

SPLICE	HARNESS	PAGE NUMBER
X18174	RADIO	NOT SHOWN
X18175	DRIVER'S SEAT	NOT SHOWN
X18176	PASSENGER'S SEAT	NOT SHOWN
X18182	RADIO	NOT SHOWN
X18217	DRIVER'S DOOR	NOT SHOWN
X18226-X18241	CHASSIS	8000.0-03
X18247-X18511	DRIVER'S SEAT	NOT SHOWN
X18512-X18513	TELEPHONE	NOT SHOWN
X18514-X18737	DRIVER'S SEAT	NOT SHOWN
X18738	PASSENGER'S SEAT	NOT SHOWN
X18740	GLOVE BOX LIGHTS	NOT SHOWN
X19507	FRONT	8000.0-02
X19511-X19512	RADIO	NOT SHOWN
X19515	DRIVER'S DOOR	NOT SHOWN
X19516	PASSENGER'S DOOR	NOT SHOWN

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SPLICE LOCATION VIEWS

FRONT HARNESS



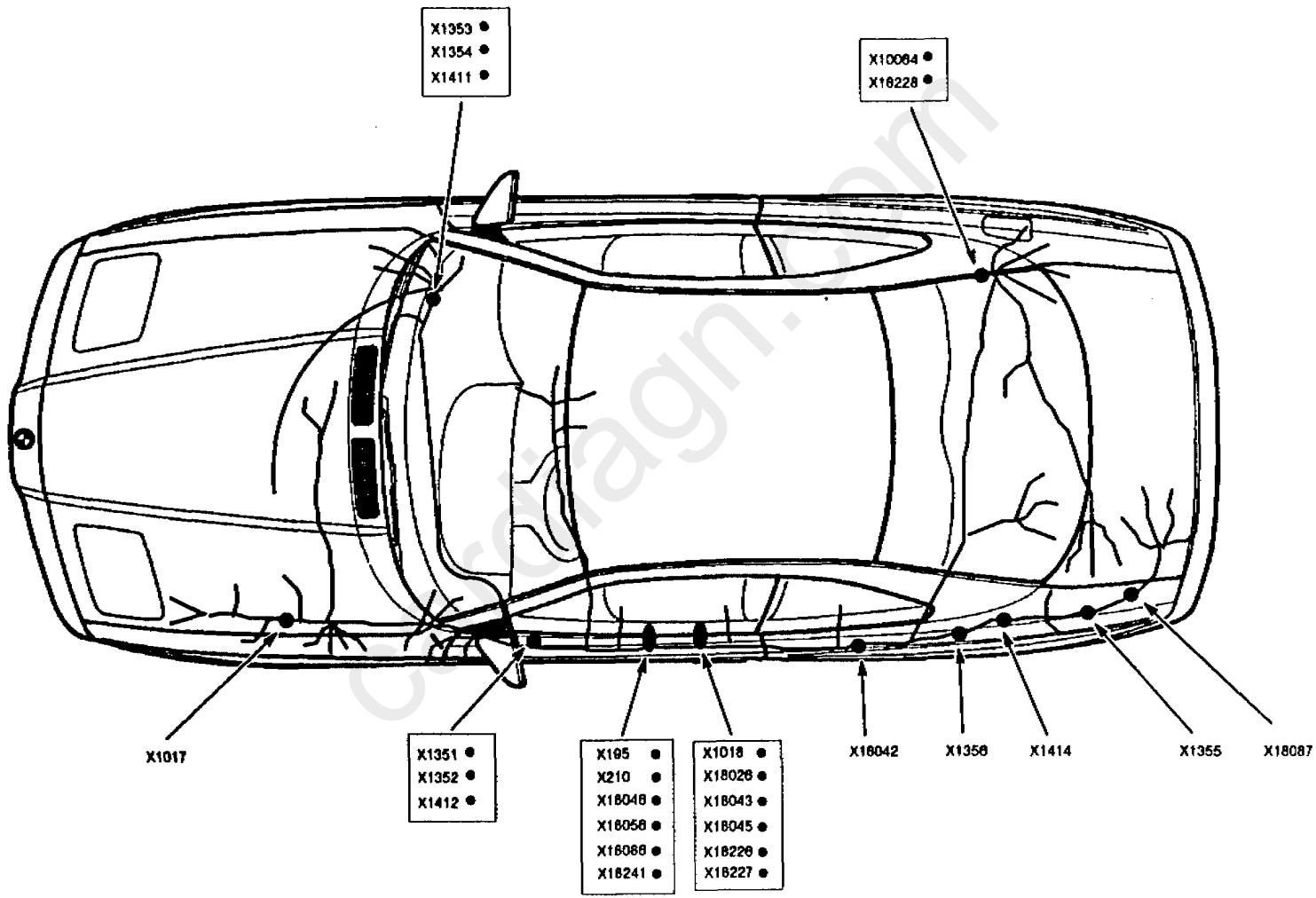
X184	X245	X265
X185	X240	X560
X186	X246	X601
X201	X247	X914
X203	X248	X1022
X205	X249	X1200
X208	X250	X10014
X212	X261	
X224	X264	

X181	X213	X606
X182	X215	X1023
X183	X222	X1036
X190	X223	X1183
X196	X226	X10043
X198	X243	X10056
X199	X241	X18044
X200	X276	X19507
X204	X562	

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SPLICE LOCATION VIEWS

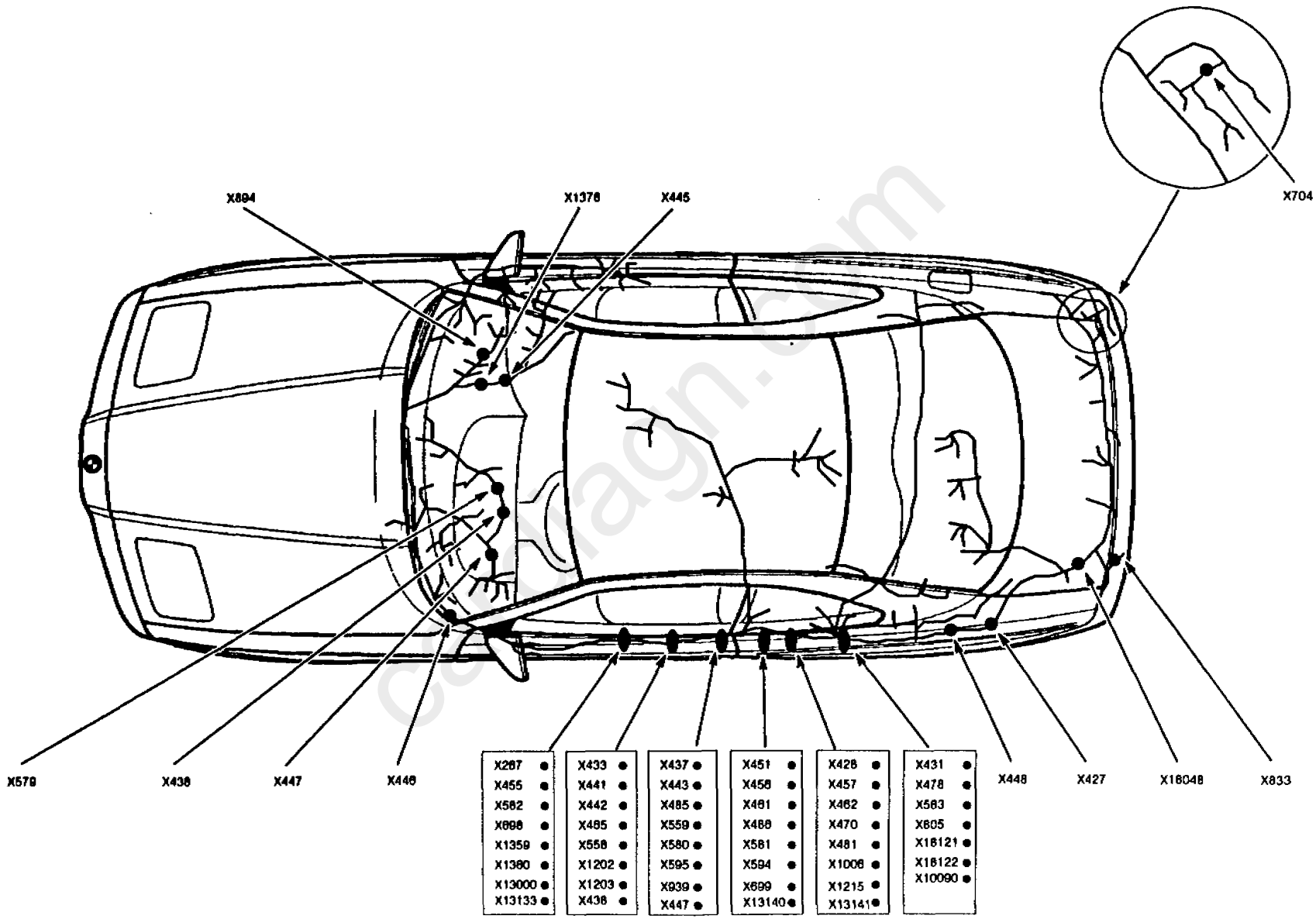
CHASSIS HARNESS



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SPLICE LOCATION VIEWS

REAR HARNESS



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FIG. 1

B880001.00

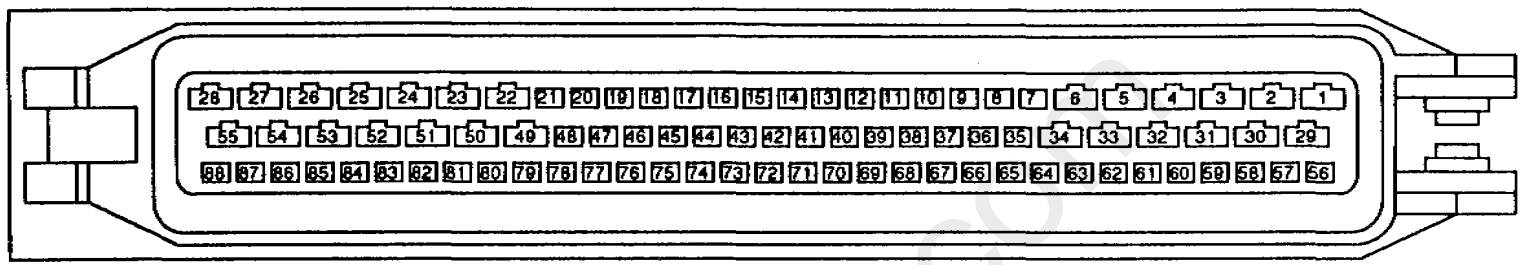


FIG. 2

B550001.00

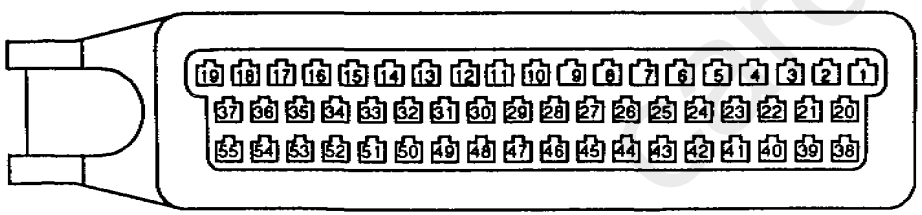
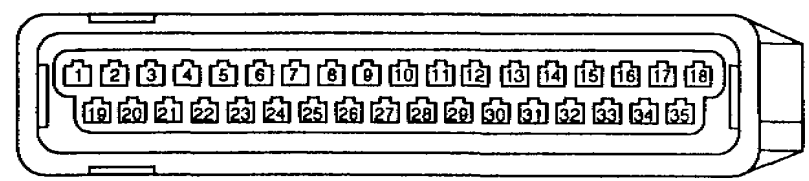


FIG. 3

B350002.05



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CONNECTOR VIEWS

FIG. 1

B300001.01

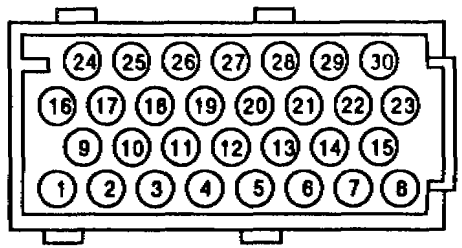


FIG. 2

B260005.00

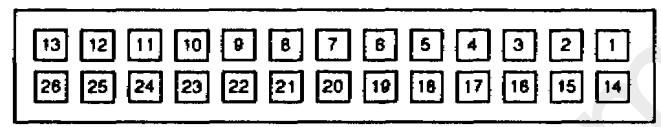


FIG. 3

B260002.00

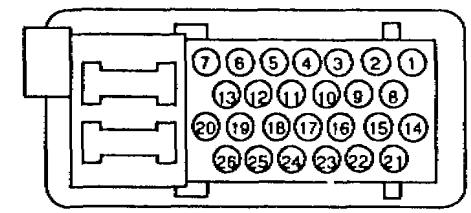


FIG. 4

B260002.00

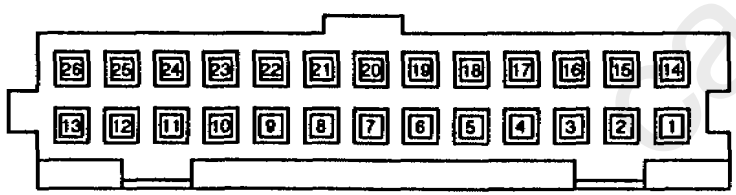


FIG. 5

B250001.00

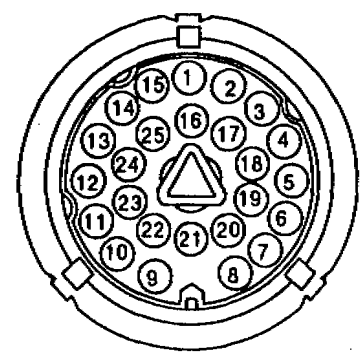
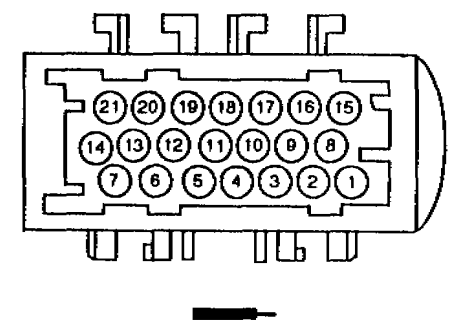


FIG. 6

B210001.00



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CONNECTOR VIEWS

FIG. 1

B200007.00

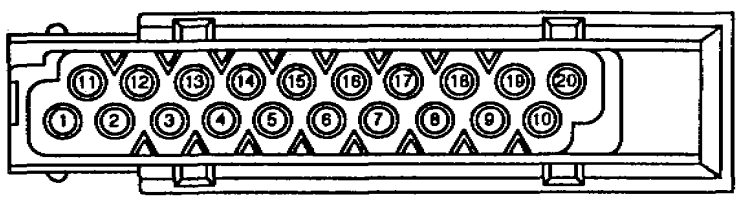


FIG. 2

B200003.00

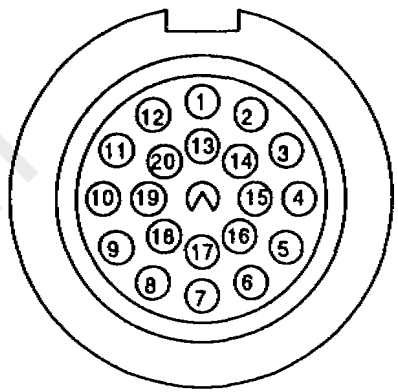


FIG. 3

B180000.00

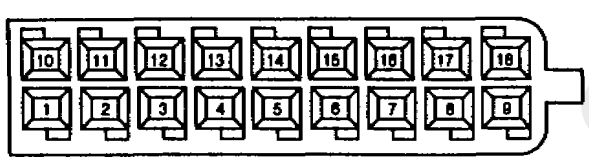


FIG. 4

B170001.00

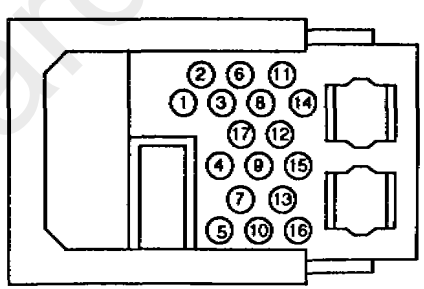
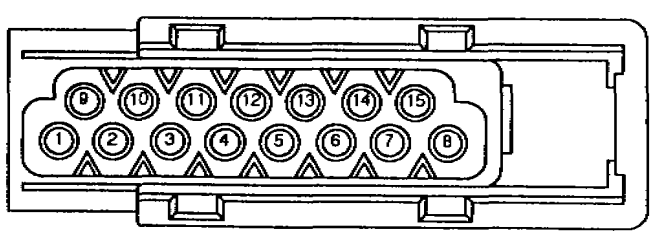


FIG. 5

B150002.00



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CONNECTOR VIEWS

FIG. 1

B130002.00

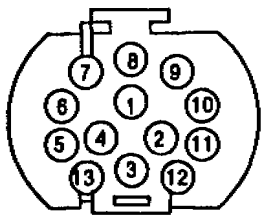


FIG. 2

B120009.00

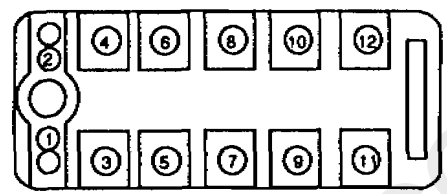


FIG. 3

B120015.01

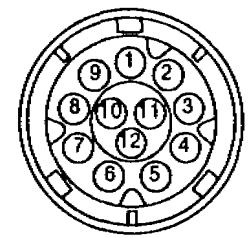


FIG. 4

B120013.00

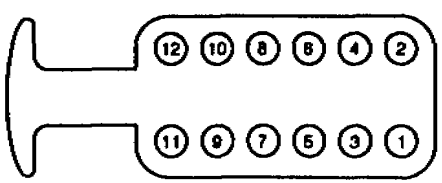


FIG. 5

B120011.00

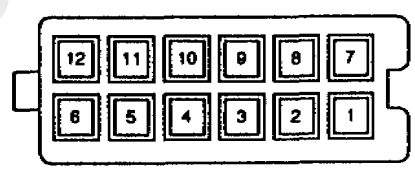
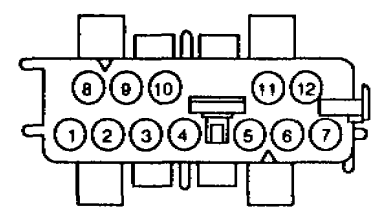


FIG. 6

B120005.00



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CONNECTOR VIEWS

FIG. 1

B120002.02

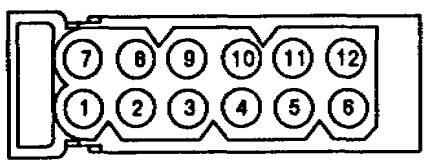


FIG. 2

B120006.00

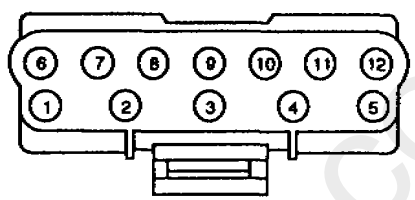


FIG. 3

B120004.01

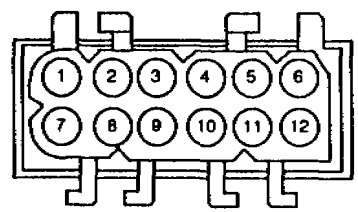


FIG. 4

B120008.00

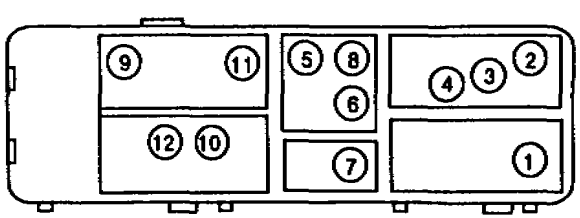


FIG. 5

B100004.01

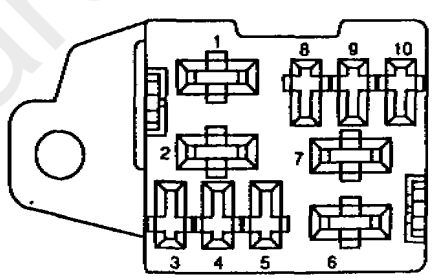
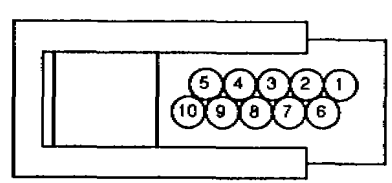


FIG. 6

B100007.00



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CONNECTOR VIEWS

FIG. 1

B100009.00

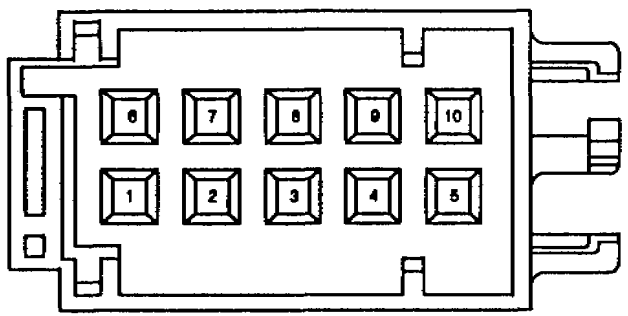


FIG. 2

B100010.00

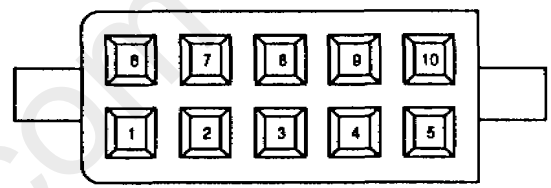


FIG. 3

B100008.00

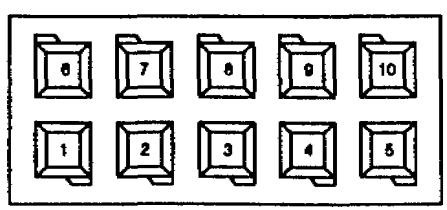


FIG. 4

B090001.00

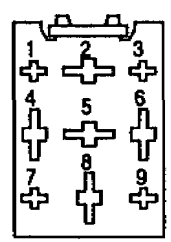
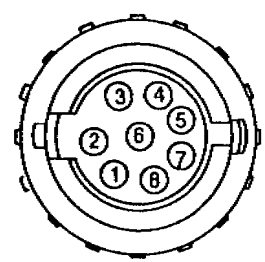


FIG. 5

B080003.00



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CONNECTOR VIEWS

FIG. 1

B080005.00

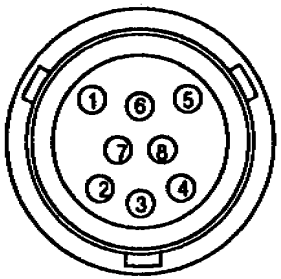


FIG. 2

B080006.00

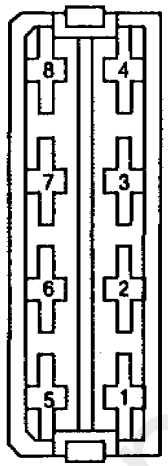


FIG. 3

B080001.00

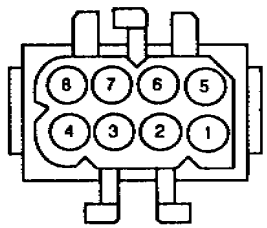


FIG. 4

B080002.00

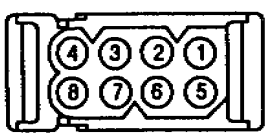


FIG. 5

B070005.00

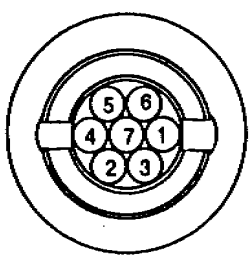
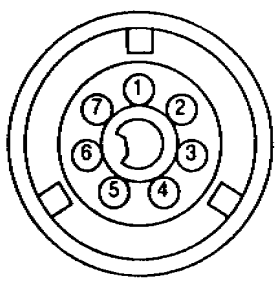


FIG. 6

B070007.00



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CONNECTOR VIEWS

FIG. 1

B060006.00

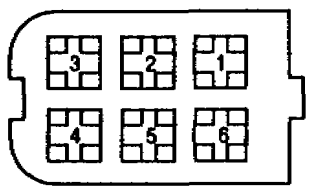


FIG. 2

B060035.00

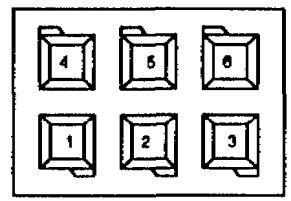


FIG. 3

B060038.00

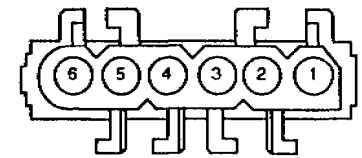


FIG. 4

B060016.00

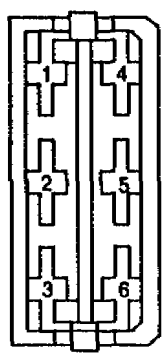


FIG. 5

B060009.00

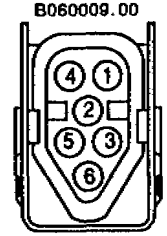
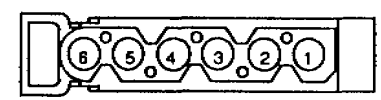


FIG. 6

B060017.00



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CONNECTOR VIEWS

FIG. 1

B060010.01

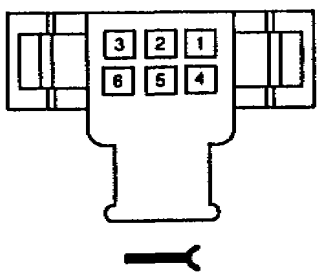


FIG. 2

B060005.012

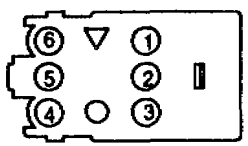


FIG. 3

B060023.00

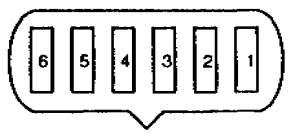


FIG. 4

B050005.00

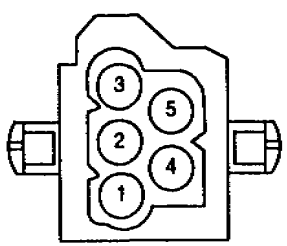


FIG. 5

B050003.00

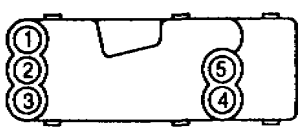
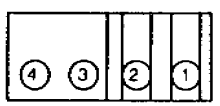


FIG. 6

B040009.00



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CONNECTOR VIEWS

FIG. 1

B040021

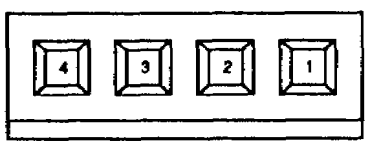


FIG. 2

B040004.00

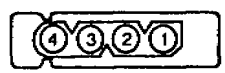


FIG. 3

B040002.00

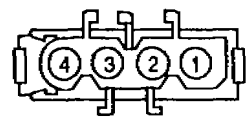


FIG. 4

B040017.01

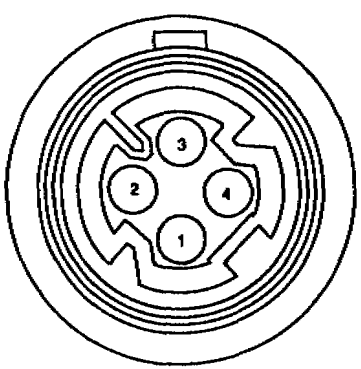


FIG. 5

B040013

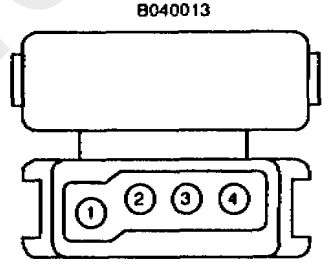
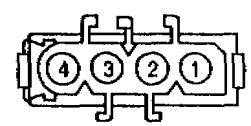


FIG. 6

B040002.04



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CONNECTOR VIEWS

FIG. 1

B040018.01

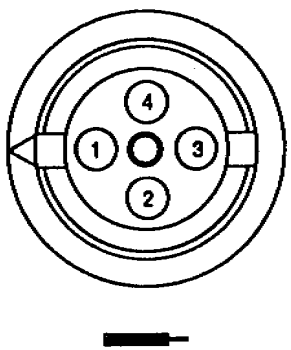


FIG. 2

B040015.00

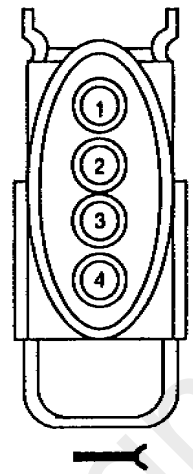


FIG. 3

B040003.00

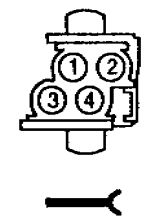


FIG. 4

B030016.00

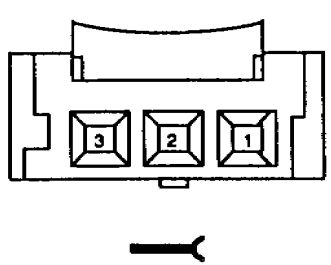


FIG. 5

B030024

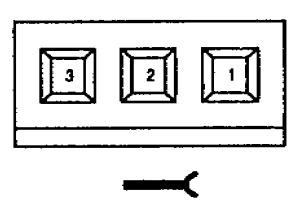
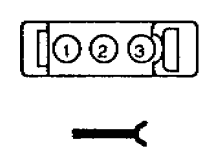


FIG. 6

B030003.04



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CONNECTOR VIEWS

FIG. 1

B030028.00

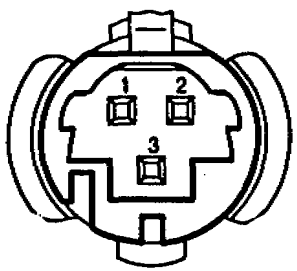


FIG. 2

B030009.00

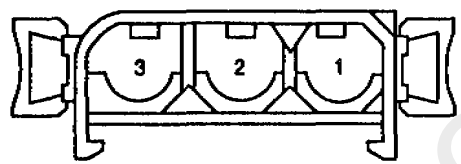


FIG. 3

B030013.00

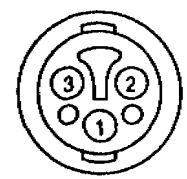


FIG. 4

B030004.00



FIG. 5

B030012.00

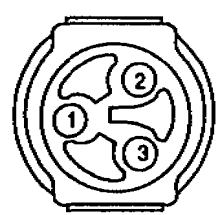
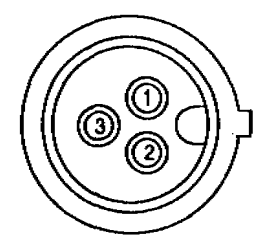


FIG. 6

B030005.00



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CONNECTOR VIEWS

FIG. 1

B030015.00

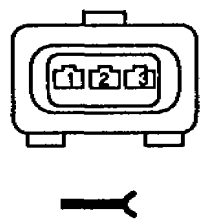


FIG. 2

B030001.00

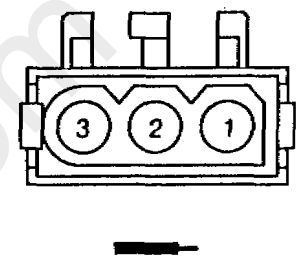


FIG. 3

B030027.00

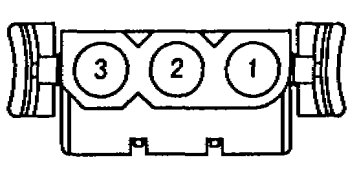


FIG. 4

B030022.00

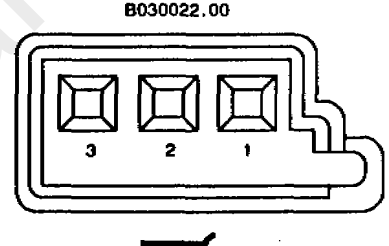
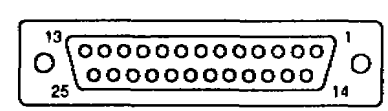


FIG. 5

B250003.00



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