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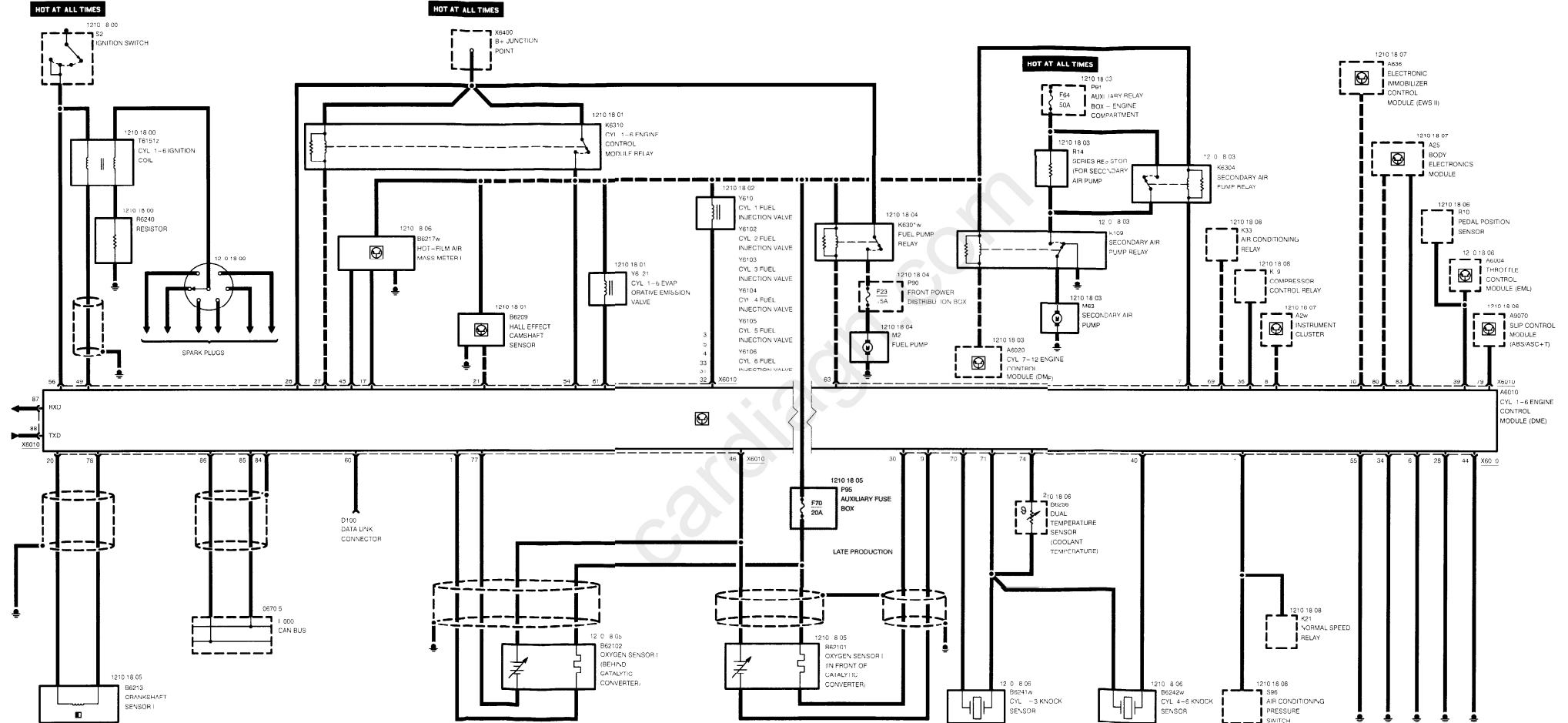
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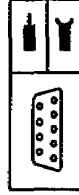
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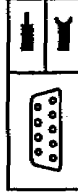


Pin Assignments

X6010

Pin	Type	Description/Function	Connection
1	M	Ground, cyl. 1-6 oxygen sensor heating	Oxygen sensor I (behind catalytic converter)
2		Not used	
3	A	Signal fuel injection	Cyl. 1 fuel injection valve
4	A	Signal fuel injection	Cyl. 3 fuel injection valve
5	A	Signal fuel injection	Cyl. 2 fuel injection valve
6	M	Ground	Ground point
7	A	Activate relay	Secondary air pump relay, K6304
8	A	"CHECK ENGINE" lamp	Instrument cluster
9		Not used	
10	E	Drive-away protection	Electronic immobilizer control module (EWS II)
11	E	Signal AC-compressor	Air conditioning pressure switch
12		Not used	
13		Not used	
14		Not used	
15		Not used	
16		Not used	
17	E	Signal air mass meter	Hot film air mass meter I
18		Not used	
19	E	Signal cyl. 1-6 oxygen sensor	Oxygen sensor I (in front of catalytic converter)
20	M	Sensor ground	Crankshaft sensor I
21	E	Signal camshaft sensor	Hall effect camshaft sensor
22		Not used	
23		Not used	
24		Not used	
25		Not used	
26	E	Plus supply terminal 30	B+ junction point
27	A	Activate relay	Cyl. 1-6 engine control module relay
28	M	Ground	Ground point
29		Not used	

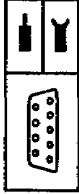
E = Input, A = Output, M = Ground



Pin Assignments

Pin	Type	Description/Function	Connection
30	M	Ground, cyl. 1-6 oxygen sensor heating	Oxygen sensor 1 (in front of catalytic converter)
31	A	Signal fuel injection	Cyl. 5 fuel injection valve
32	A	Signal fuel injection	Cyl. 6 fuel injection valve
33	A	Signal fuel injection	Cyl. 4 fuel injection valve
34	M	Ground	Ground point
35		Not used	
36	A	Signal climate compressor	Compressor control relay
37		Not used	
38		Not used	
39	E	Signal pedal position	Pedal position sensor
40	E	Signal knock sensor	Cyl. 4-6 knock sensor
41		Not used	
42		Not used	
43		Not used	
44	M	Injection signal	Resistor, R6240
45	M	Ground, air mass meter	Hot film air mass meter I
46	M	Ground, oxygen sensors	Cyl. 1-6 oxygen sensors
47		Not used	
48		Not used	
49	A	Ignition terminal 1	Cyl. 1-6 ignition coil
50		Not used	
51		Not used	
52		Not used	
53		Not used	
54	E	Signal engine control module relay	Cyl. 1-6 engine control module relay
55	M	Ground	Ground point
56	E	Plus supply terminal 15	Ignition switch
57		Not used	
58		Not used	
59		Not used	
60	E	Programming voltage	Data link connector
61	A	Signal evaporative emission	Cyl. 1-6 evaporative emission valve

E = Input, A = Output, M = Ground



Pin Assignments

Pin	Type	Description/Function	Connection
62		Not used	
63	A	Signal fuel pump	Fuel pump relay
64		Not used	
65		Not used	
66		Not used	
67		Not used	
68		Not used	
69	E	Signal AC on/off	Air conditioning relay
70	E	Signal knock sensor	Cyl. 1-3 knock sensor
71	M	Ground sensors	Knock/temperature sensors
72		Not used	
73		Not used	
74	E	Engine temperature	Dual temperature sensor (coolant temperature)
75		Not used	
76		Not used	
77	E	Signal cyl. 1-6 oxygen sensor	Oxygen sensor I (behind catalytic converter)
78	E	Signal cyl. 1-6 crankshaft sensor	Crankshaft sensor I
79	E	Signal right rear wheel speed	Slip control module
80	A	Signal engine speed (RPM)	Body electronics module
81		Not used	
82		Not used	
83	A	Signal fuel consumption	Body electronics module
84	M	CANCA-S	Shield
85	E/A	CANCA-L	Can Bus
86	E/A	CANCA-H	Can Bus
87	A	Diagnosis	Data link connector, RXD
88	E/A	Diagnosis	Data link connector, TXD

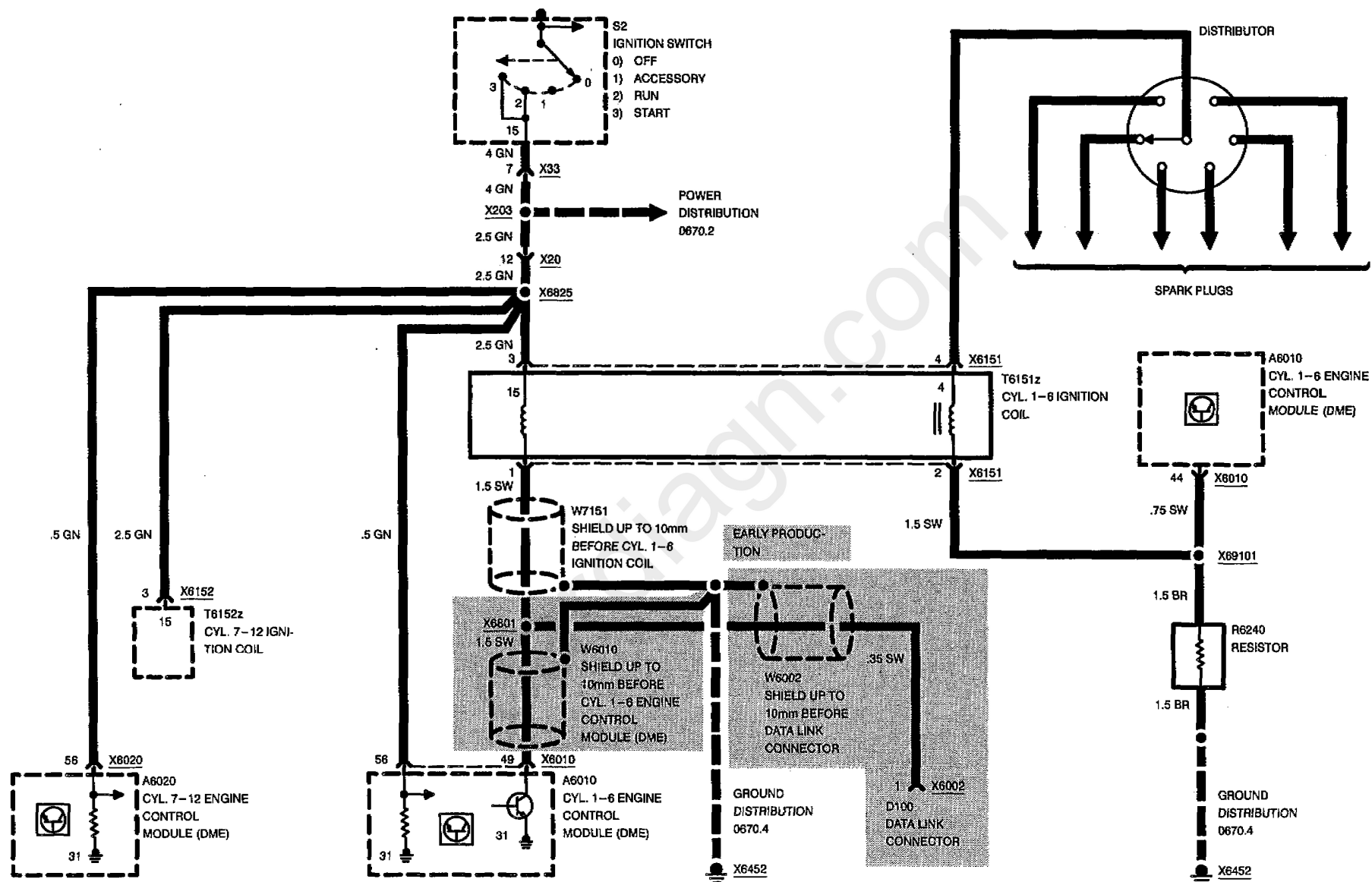
E = Input, A = Output, M = Ground



ENGINE CONTROL SYSTEM (DME M5.2, 12-CYLINDER M73)

ENGINE CONTROL MODULES (DME)

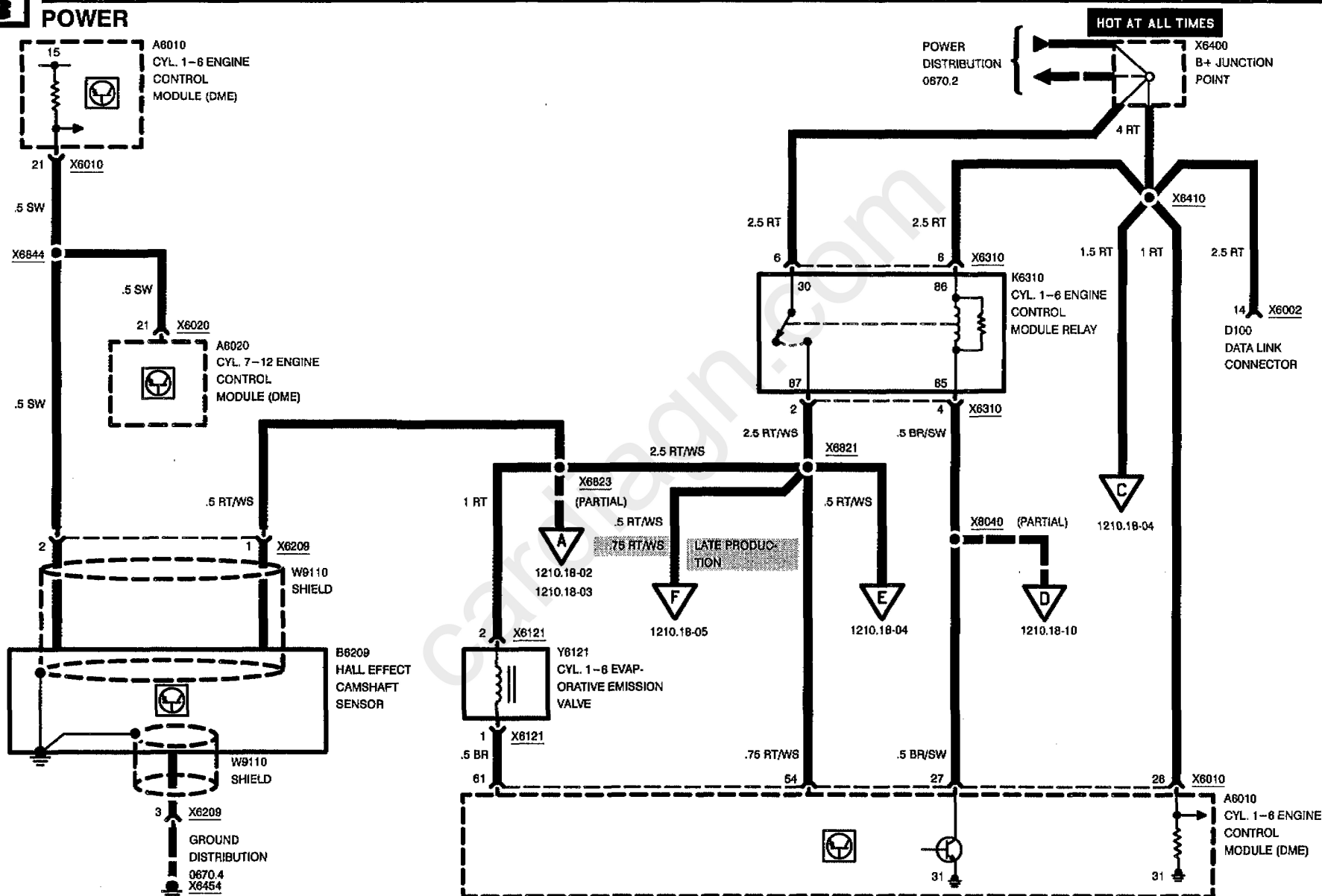
HOT AT ALL TIMES





ENGINE CONTROL SYSTEM (DME M5.2, 12-CYLINDER M73)

POWER



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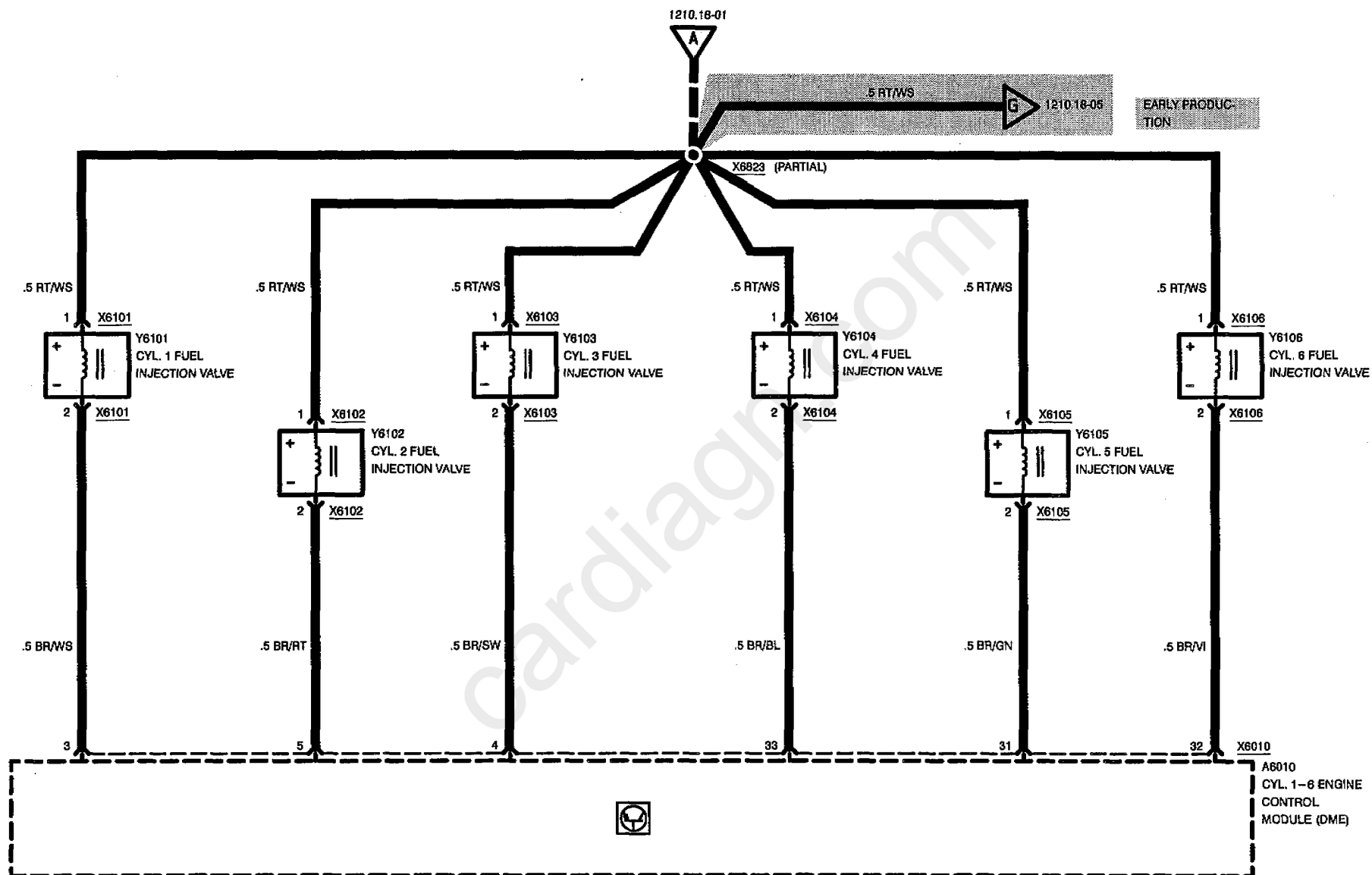
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ENGINE CONTROL SYSTEM (DME M5.2, 12-CYLINDER M73)

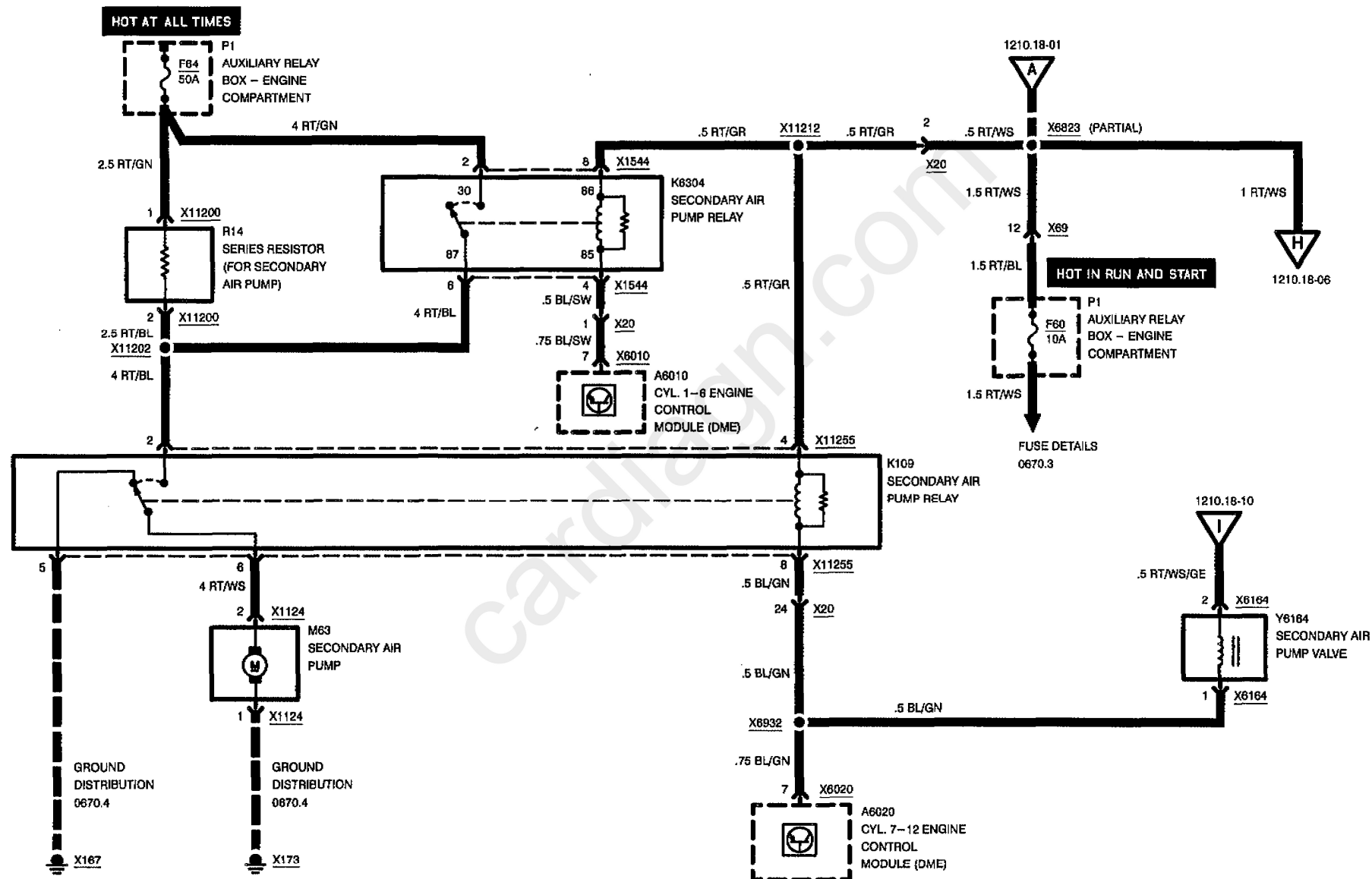
ENGINE CONTROL MODULES (DME)





ENGINE CONTROL SYSTEM (DME M5.2, 12-CYLINDER M73)

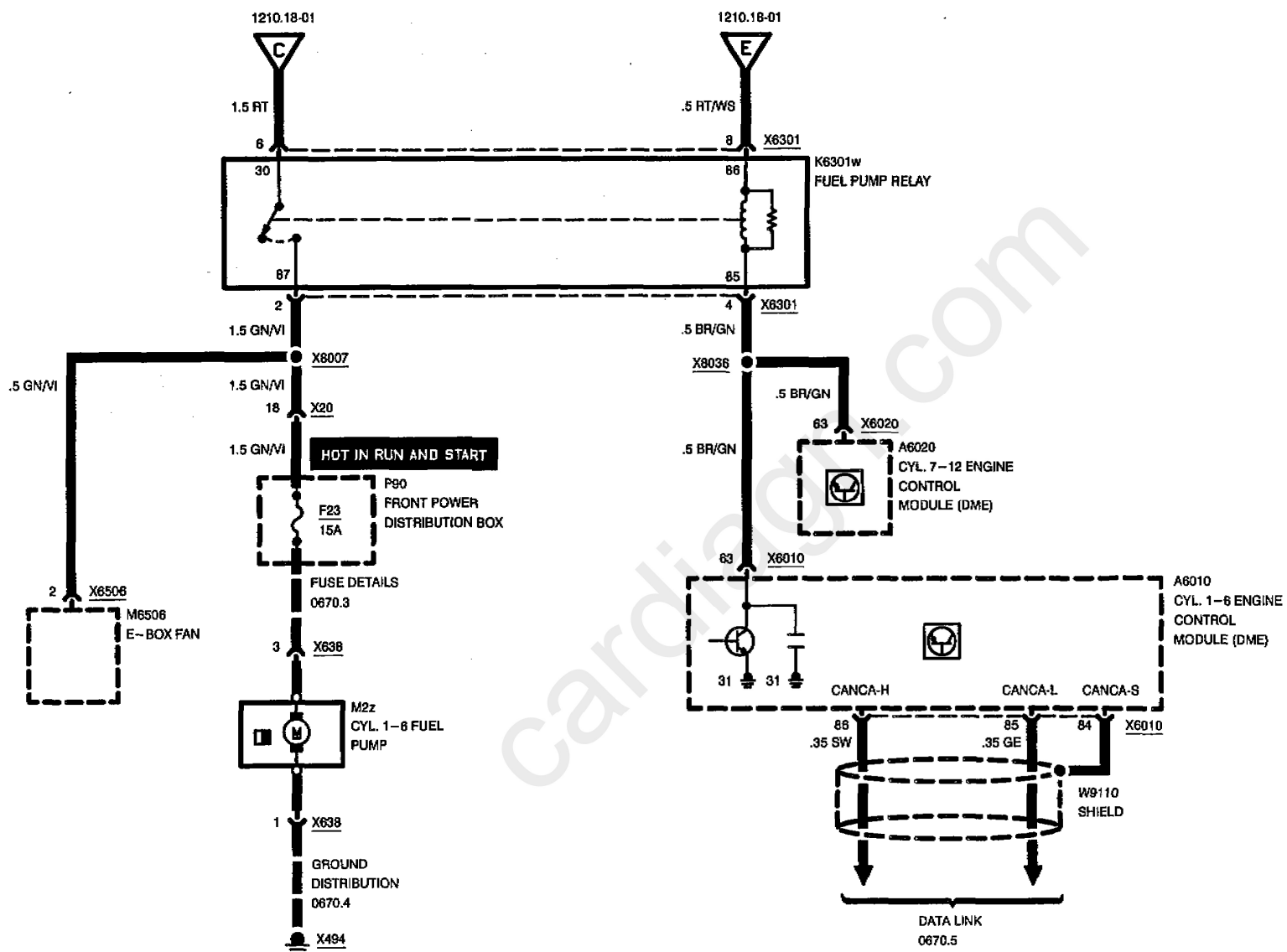
SECONDARY AIR PUMP





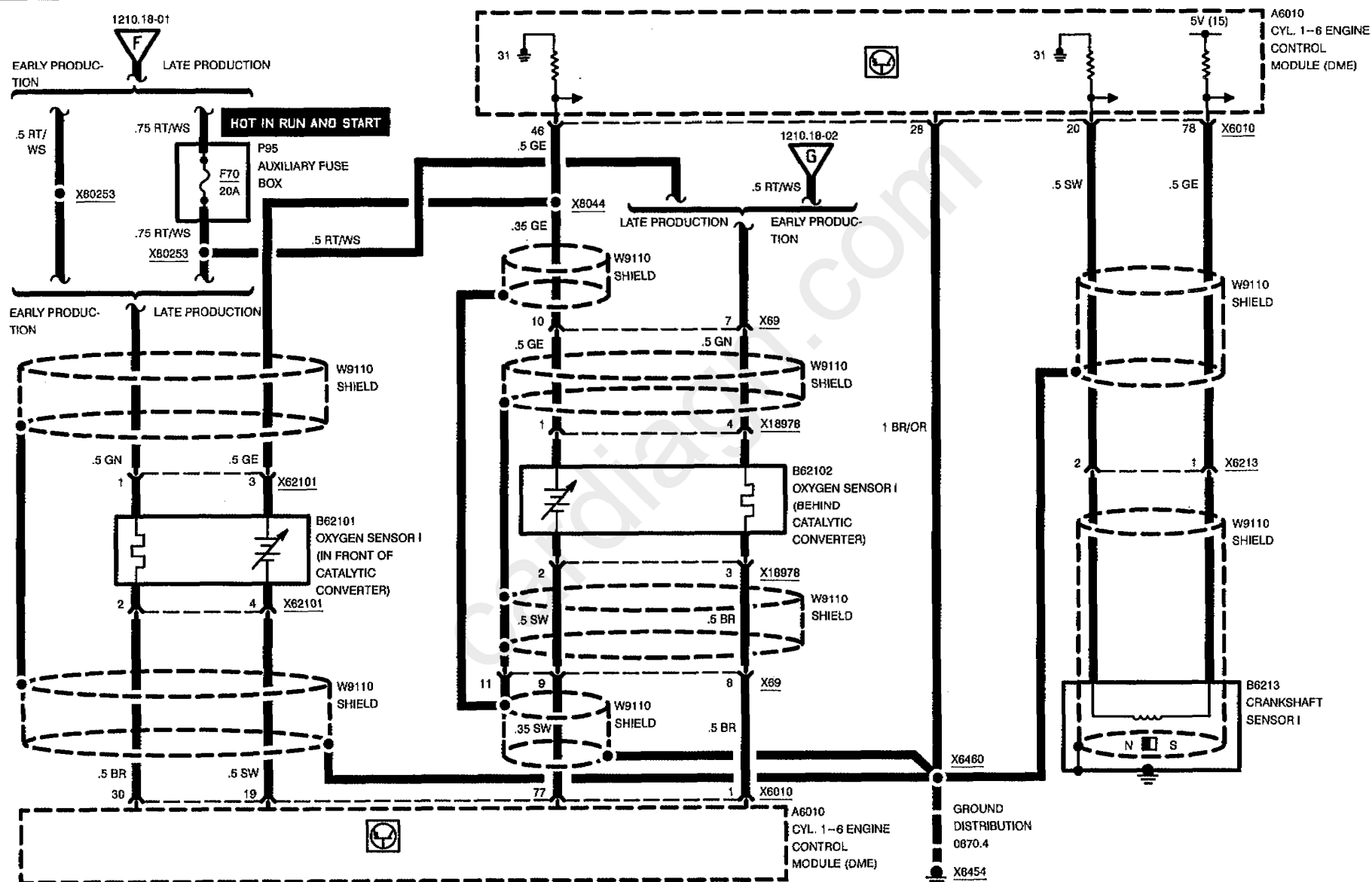
ENGINE CONTROL SYSTEM (DME M5.2, 12-CYLINDER M73)

FUEL PUMP





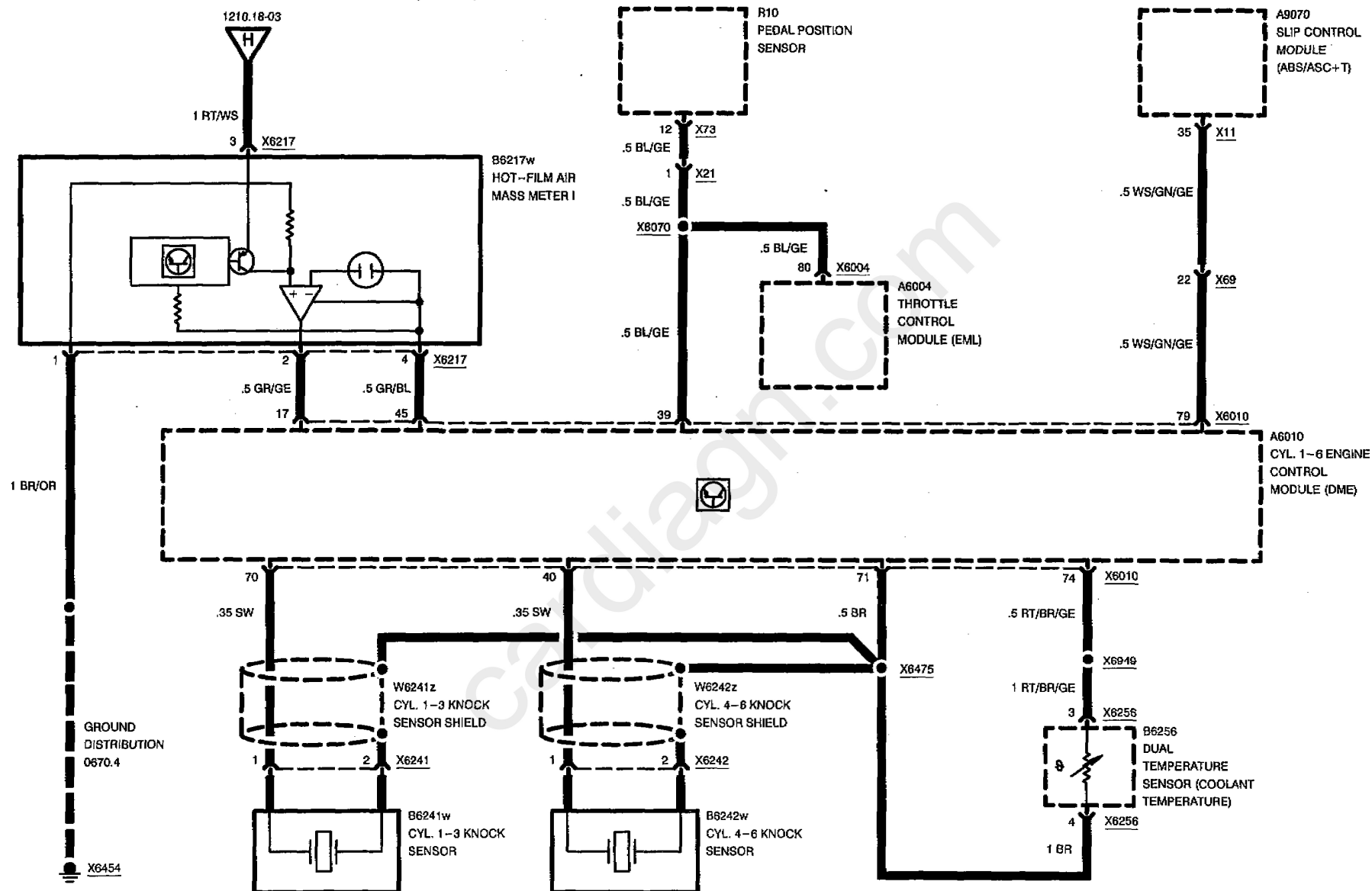
ENGINE CONTROL SYSTEM (DME M5.2, 12-CYLINDER M73)





ENGINE CONTROL SYSTEM (DME M5.2, 12-CYLINDER M73)

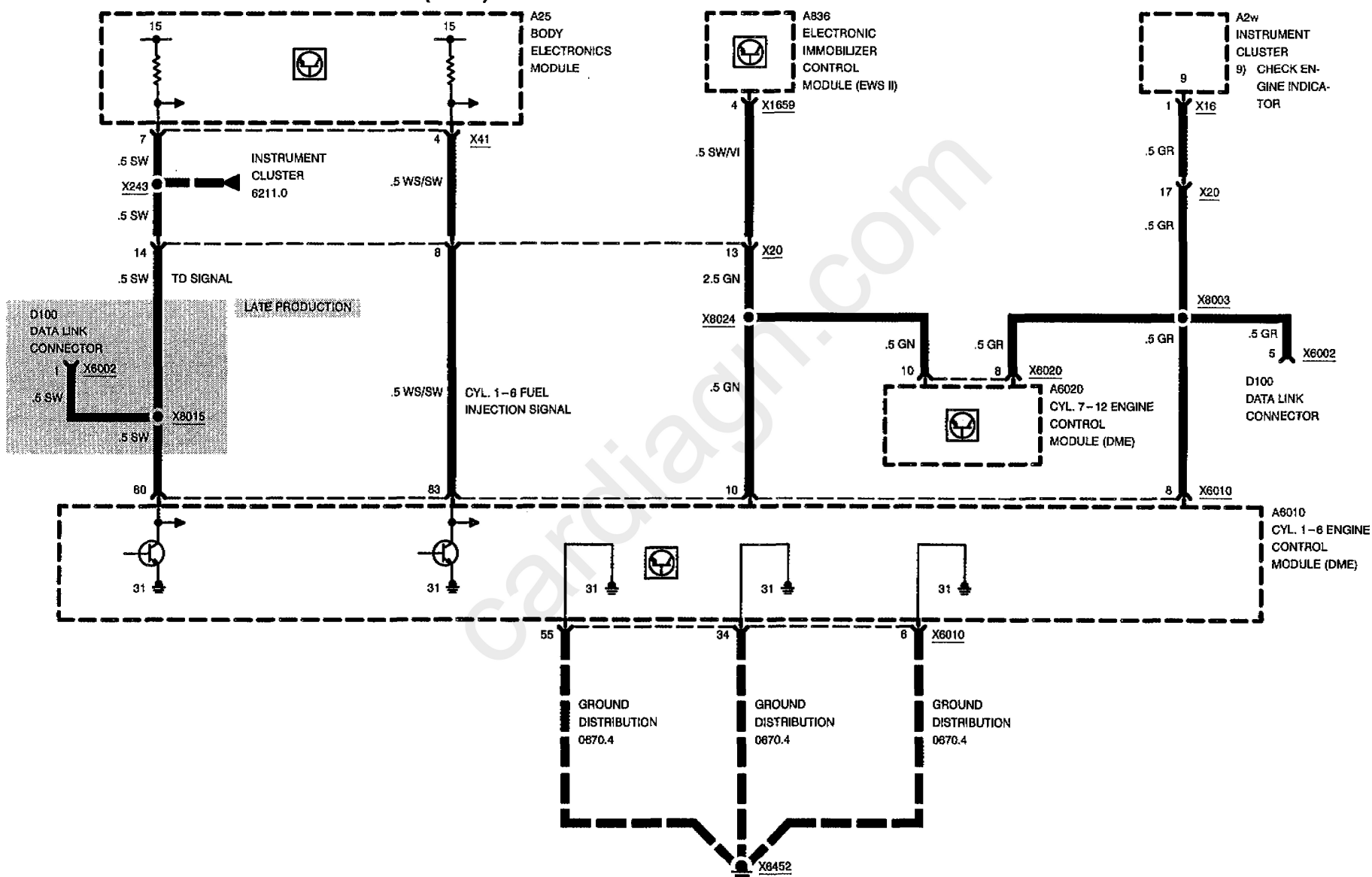
ENGINE CONTROL MODULES (DME)





ENGINE CONTROL SYSTEM (DME M5.2, 12-CYLINDER M73)

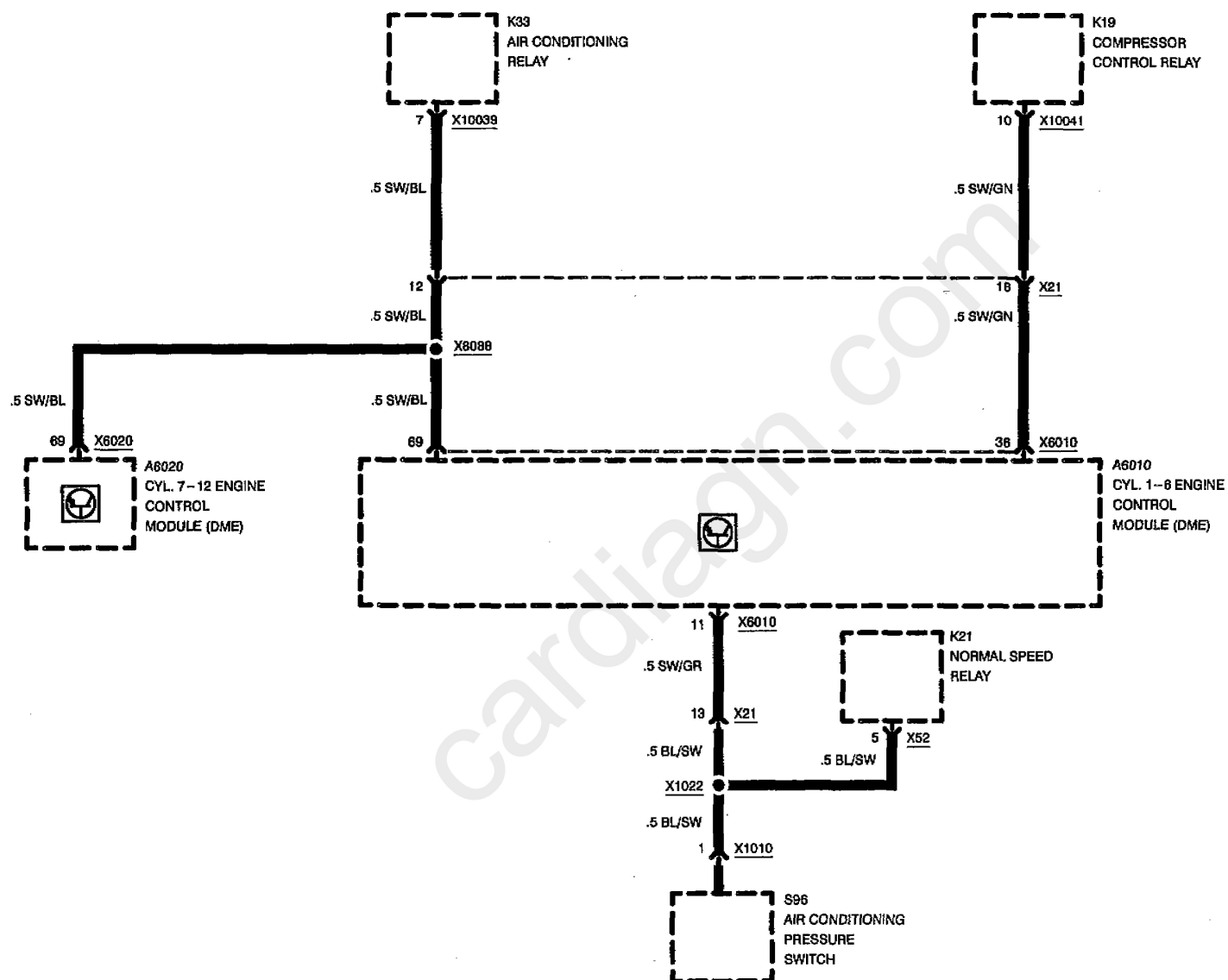
ENGINE CONTROL MODULES (DME)

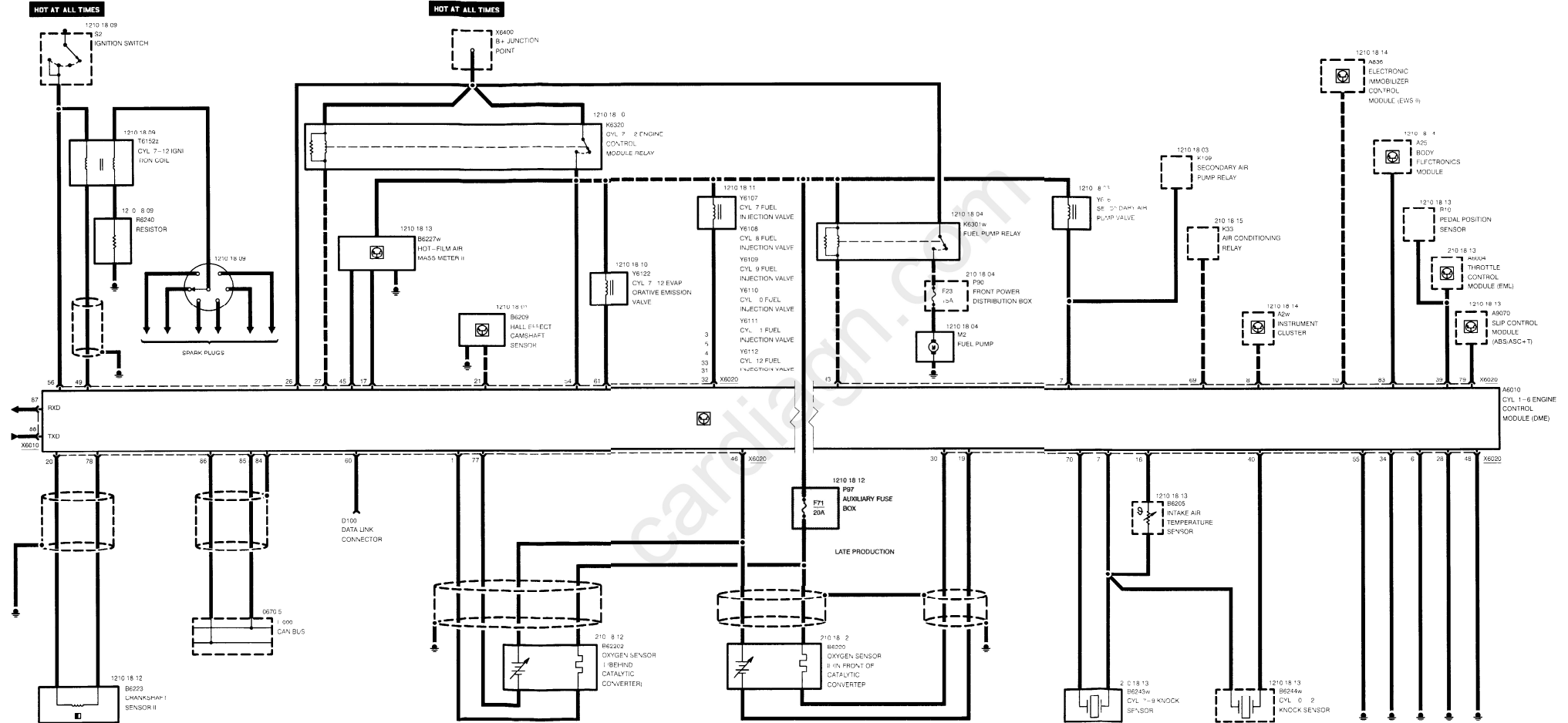


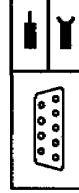


ENGINE CONTROL SYSTEM (DME M5.2, 12-CYLINDER M73)

ENGINE CONTROL MODULES (DME)





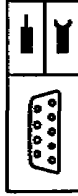


Pin Assignments

X6020

Pin	Type	Description/Function	Connection
1	M	Ground, cyl. 7-12 oxygen sensor heating	Oxygen sensor II (behind catalytic converter)
2		Not used	
3	A	Signal fuel injection	Cyl. 7 fuel injection valve
4	A	Signal fuel injection	Cyl. 9 fuel injection valve
5	A	Signal fuel injection	Cyl. 8 fuel injection valve
6	M	Ground	Ground point
7	A	Activate relay	Secondary air pump relay, K109
8	A	"CHECK ENGINE" lamp	Instrument cluster
9		Not used	
10	E	Drive-away protection	Electronic immobilizer control module (EWS II)
11		Not used	
12		Not used	
13		Not used	
14		Not used	
15		Not used	
16	E	Air temperature	Intake air temperature sensor
17	E	Signal air mass meter	Hot film air mass meter II
18		Not used	
19	E	Signal cyl. 7-12 oxygen sensor	Oxygen sensor II (in front of catalytic converter)
20	M	Sensor ground	Crankshaft sensor II
21	E	Signal camshaft sensor	Hall effect camshaft sensor
22		Not used	
23		Not used	
24		Not used	
25		Not used	
26	E	Plus supply terminal 30	B+ junction point
27	A	Activate relay	Cyl. 7-12 engine control module relay
28	M	Ground	Ground point

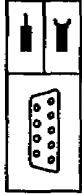
E = Input, A = Output, M = Ground



Pin Assignments

Pin	Type	Description/Function	Connection
29		Not used	
30	M	Ground, cyl. 7-12 oxygen sensor heating	Oxygen sensor II (in front of catalytic converter)
31	A	Signal fuel injection	Cyl. 11 fuel injection valve
32	A	Signal fuel injection	Cyl. 12 fuel injection valve
33	A	Signal fuel injection	Cyl. 10 fuel injection valve
34	M	Ground	Ground point
35		Not used	
36		Not used	
37		Not used	
38		Not used	
39	E	Signal pedal position	Pedal position sensor
40	E	Signal knock sensor	Cyl. 10-12 knock sensor
41		Not used	
42		Not used	
43		Not used	
44	M	Injection signal	Resistor, R6240
45	M	Ground, air mass meter	Hot film air mass meter II
46	M	Ground, oxygen sensors	Cyl. 7-12 oxygen sensors
47		Not used	
48	M	Ground	Ground point
49	A	Ignition terminal 1	Cyl. 7-12 ignition coil
50		Not used	
51		Not used	
52		Not used	
53		Not used	
54	E	Signal engine control module relay	Cyl. 7-12 engine control module relay
55	M	Ground	Ground point
56	E	Plus supply terminal 15	Ignition switch
57		Not used	
58		Not used	
59		Not used	

E = Input, A = Output, M = Ground



Pin Assignments

Pin	Type	Description/Function	Connection
60	E	Programming voltage	Data link connector
61	A	Signal evaporative emission	Cyl. 7-12 evaporative emission valve
62		Not used	
63	A	Signal fuel pump	Fuel pump relay
64		Not used	
65		Not used	
66		Not used	
67		Not used	
68		Not used	
69	E	Signal AC on/off	Air conditioning relay
70	E	Signal knock sensor	Cyl. 7-9 knock sensor
71	M	Ground sensors	Knock/temperature sensors
72		Not used	
73		Not used	
74		Not used	
75		Not used	
76		Not used	
77	E	Signal cyl. 7-12 oxygen sensor	Oxygen sensor II (behind catalytic converter)
78	E	Signal cyl. 7-12 crankshaft sensor	Crankshaft sensor II
79	E	Signal right rear wheel speed	Slip control module
80		Not used	
81		Not used	
82		Not used	
83	A	Signal fuel consumption	Body electronics module
84	M	CANCA-S	Shield
85	E/A	CANCA-L	Can Bus
86	E/A	CANCA-H	Can Bus
87	A	Diagnosis	Data link connector, RXD
88	E/A	Diagnosis	Data link connector, TXD

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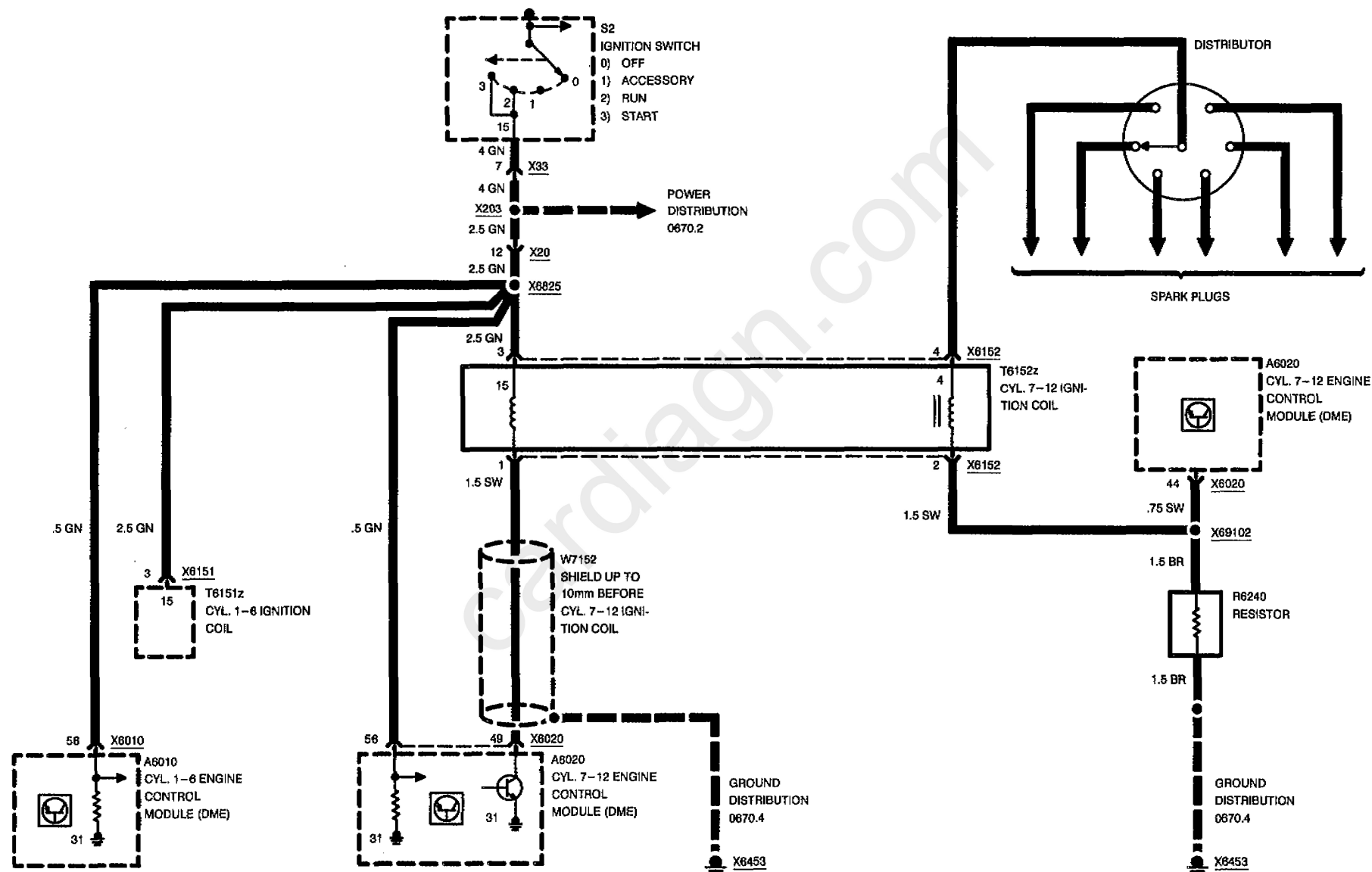
cardiagn.com

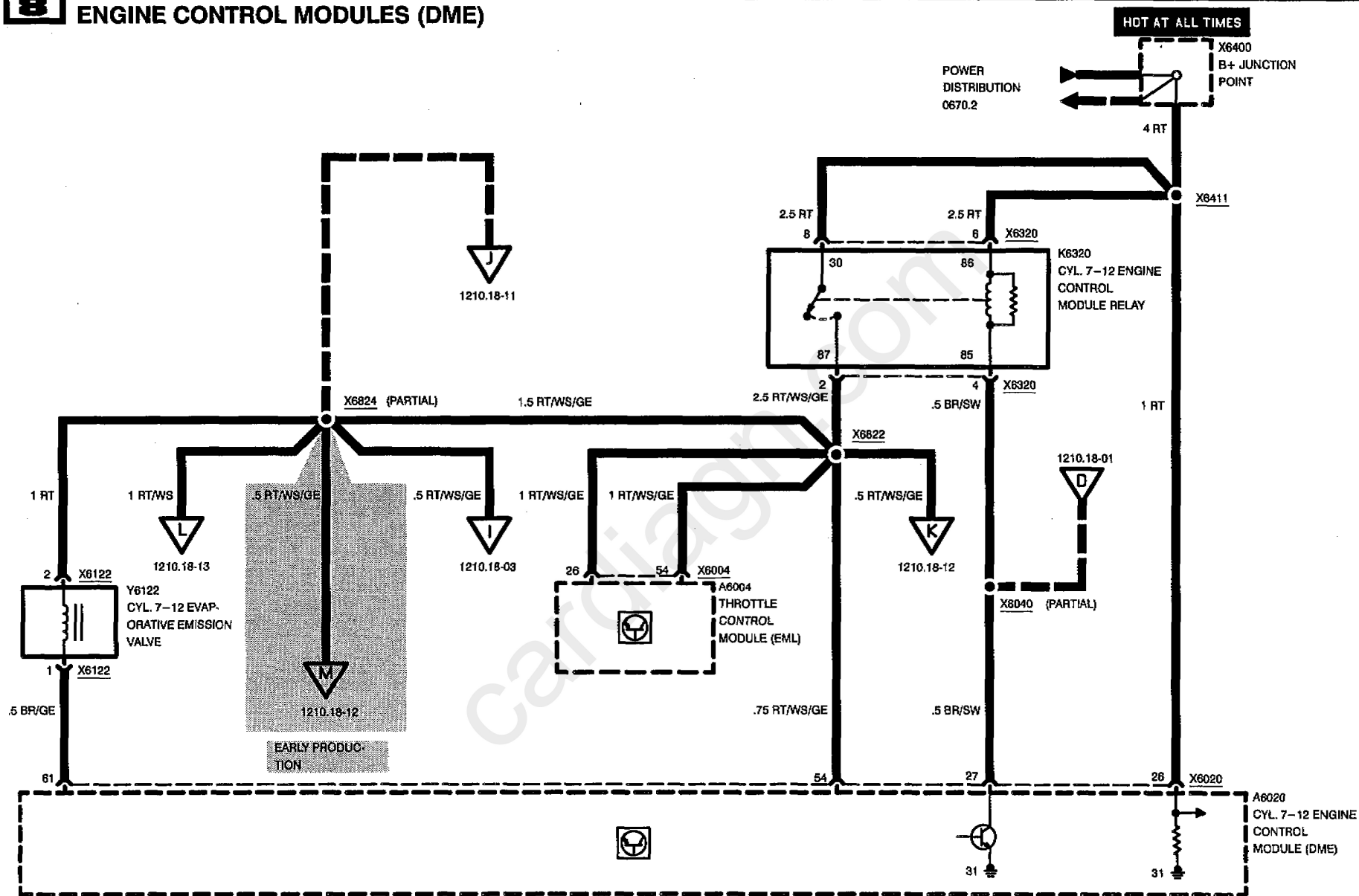


ENGINE CONTROL SYSTEM (DME M5.2, 12-CYLINDER M73)

ENGINE CONTROL MODULES (DME)

HOT AT ALL TIMES

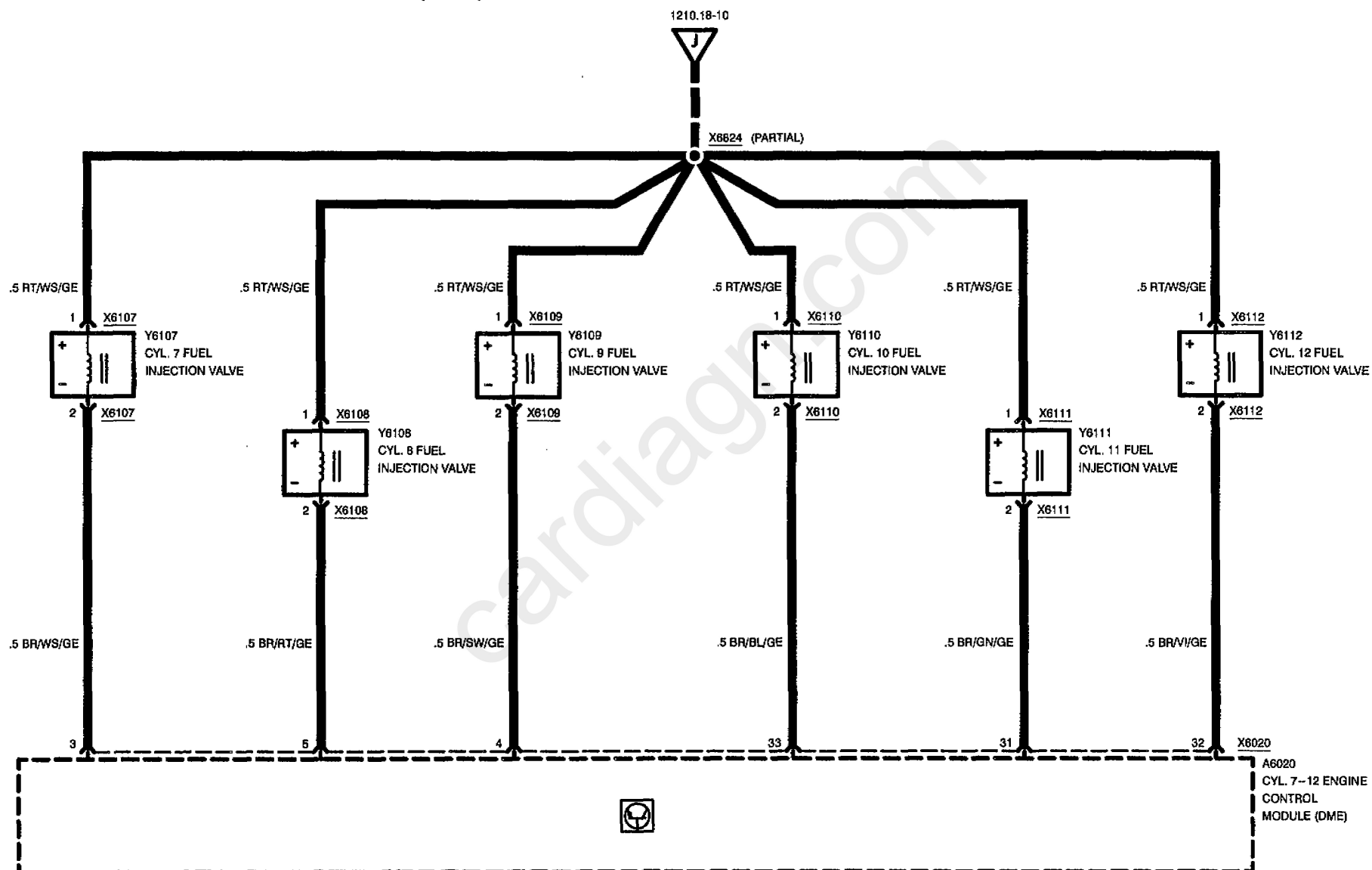






ENGINE CONTROL SYSTEM (DME M5.2, 12-CYLINDER M73)

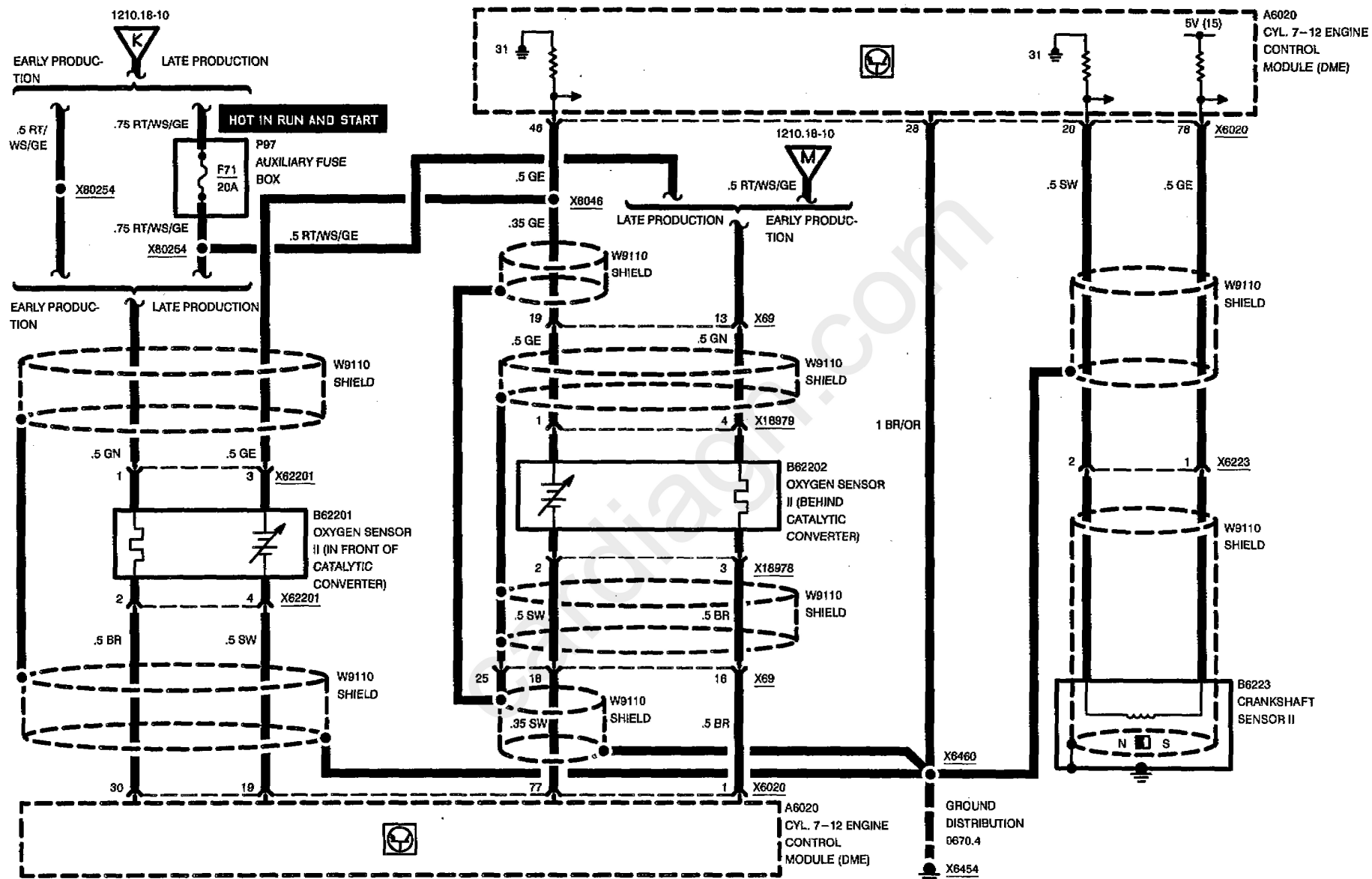
ENGINE CONTROL MODULES (DME)





ENGINE CONTROL SYSTEM (DME M5.2, 12-CYLINDER M73)

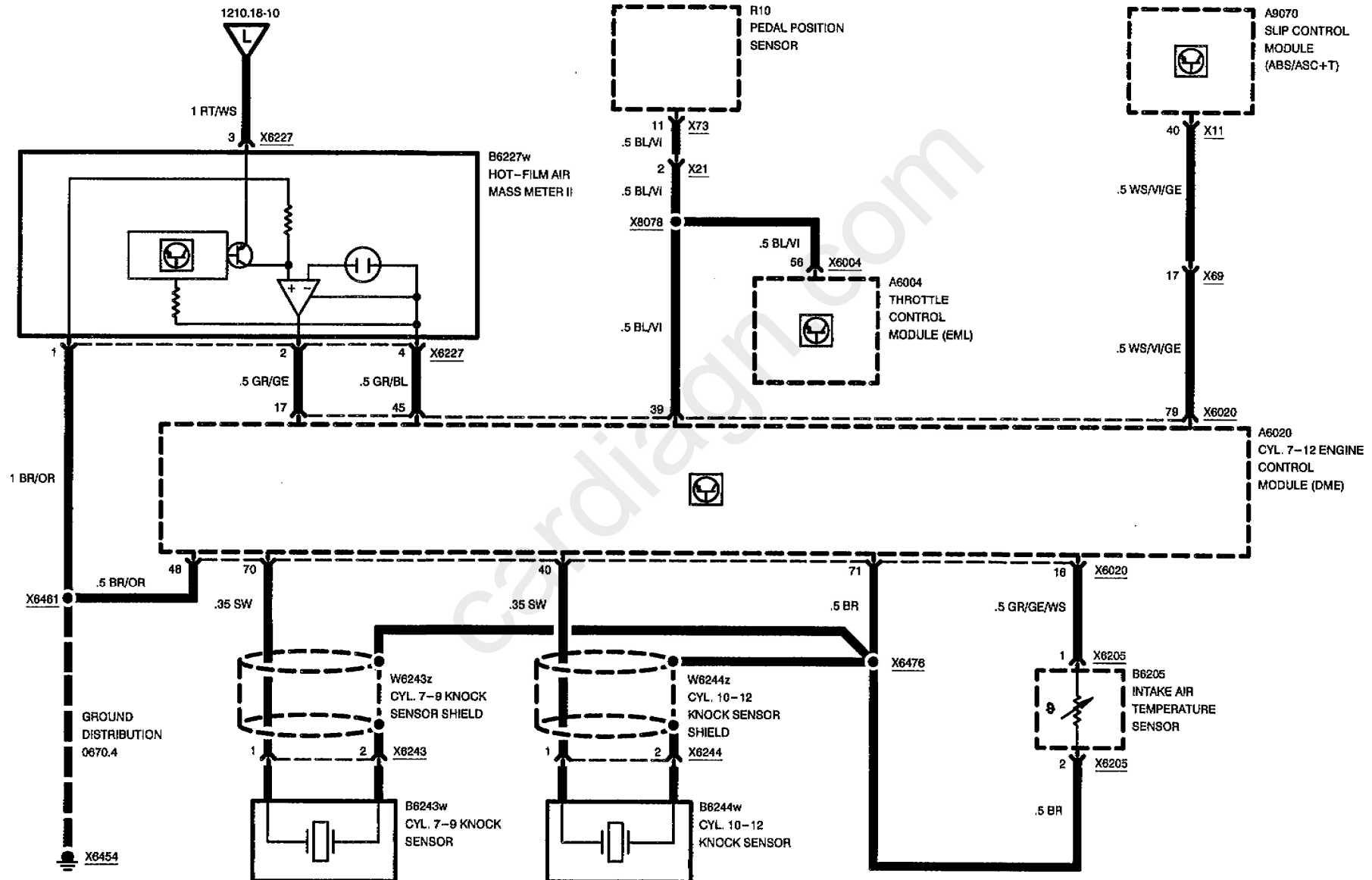
ENGINE CONTROL MODULES (DME)





ENGINE CONTROL SYSTEM (DME M5.2, 12-CYLINDER M73)

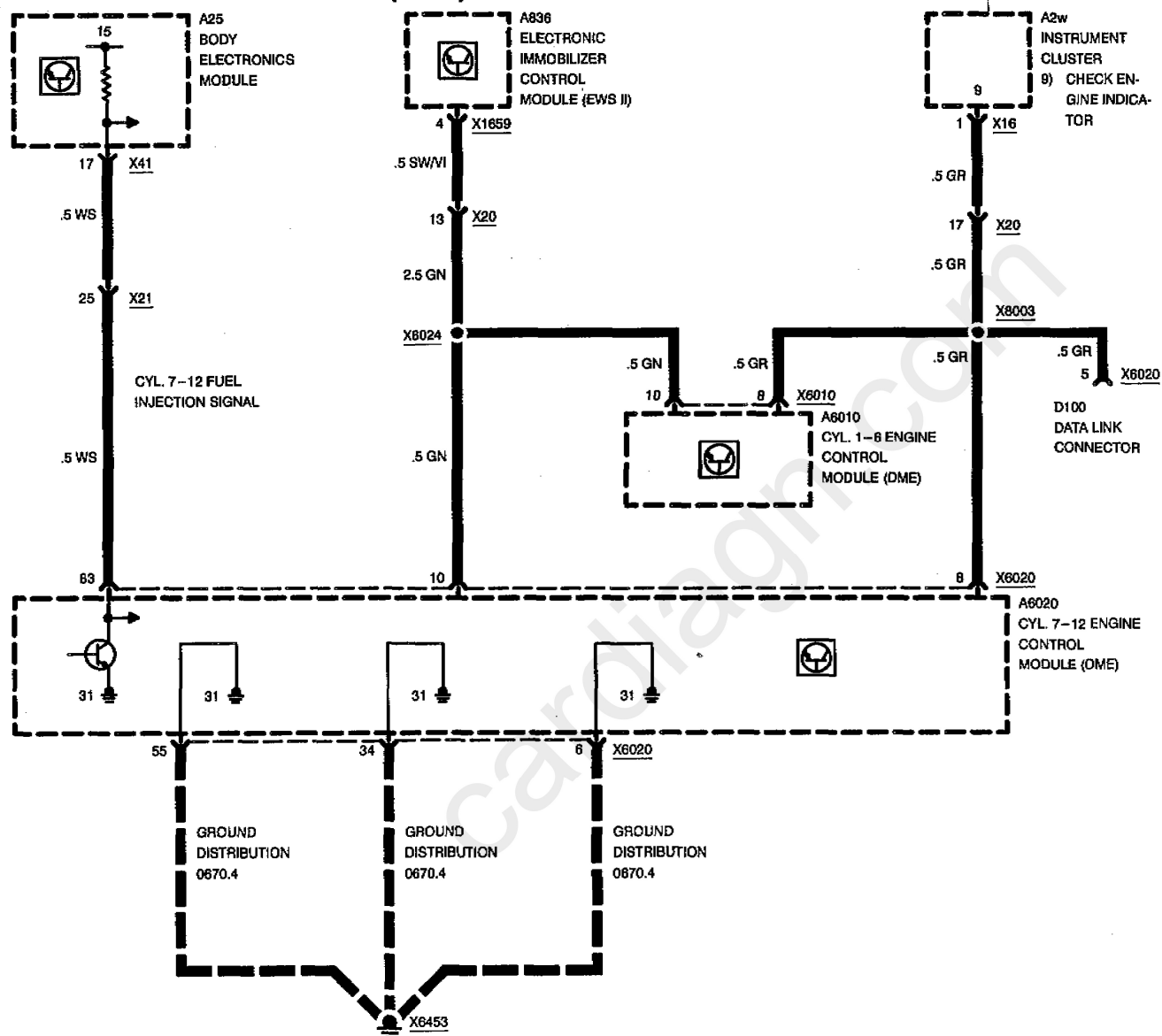
ENGINE CONTROL MODULES (DME)





ENGINE CONTROL SYSTEM (DME M5.2, 12-CYLINDER M73)

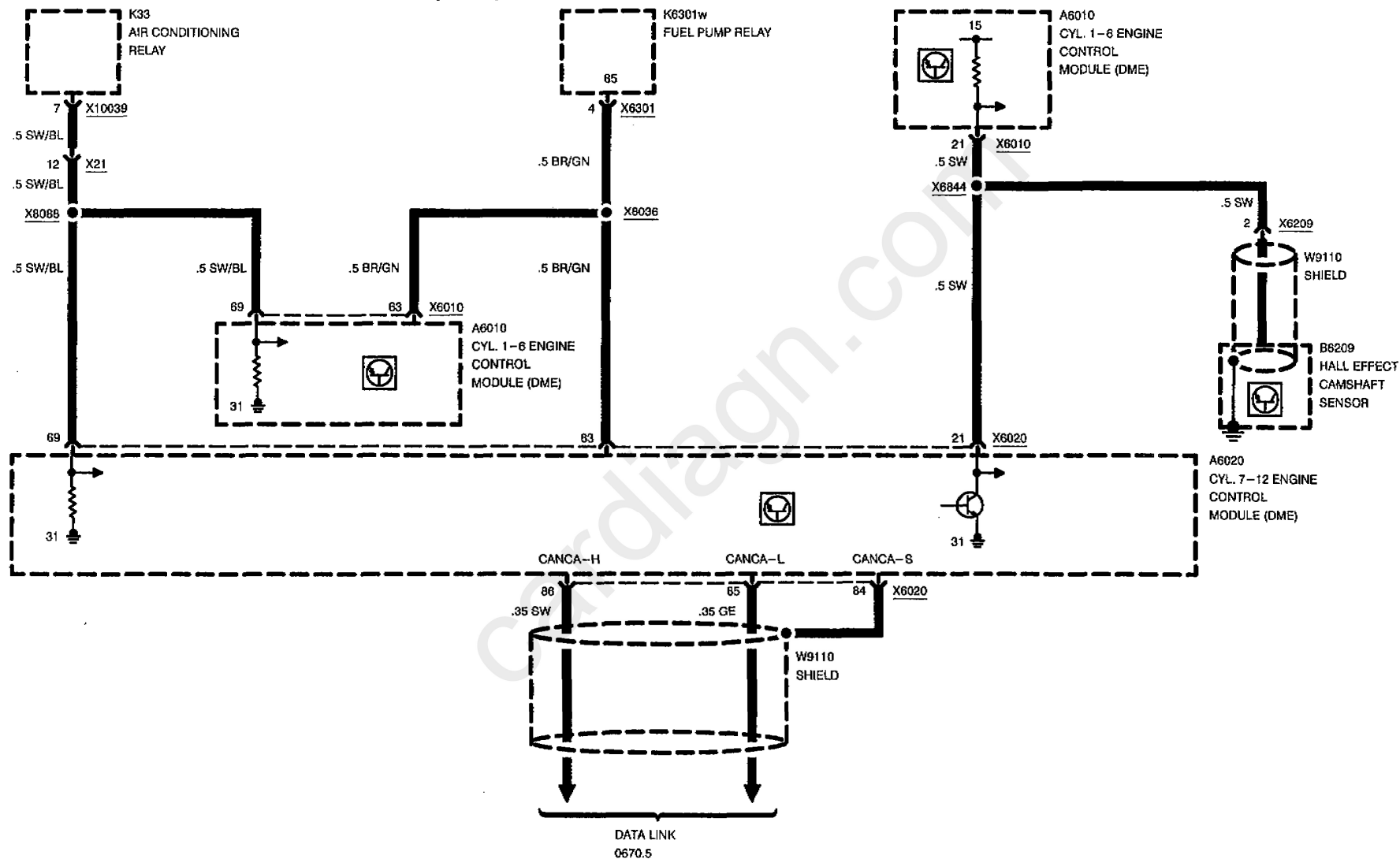
ENGINE CONTROL MODULES (DME)





ENGINE CONTROL SYSTEM (DME M5.2, 12-CYLINDER M73)

ENGINE CONTROL MODULES (DME)





ENGINE CONTROL SYSTEM (DME M5.2, 12-CYLINDER M73)

DME DIAGNOSIS

