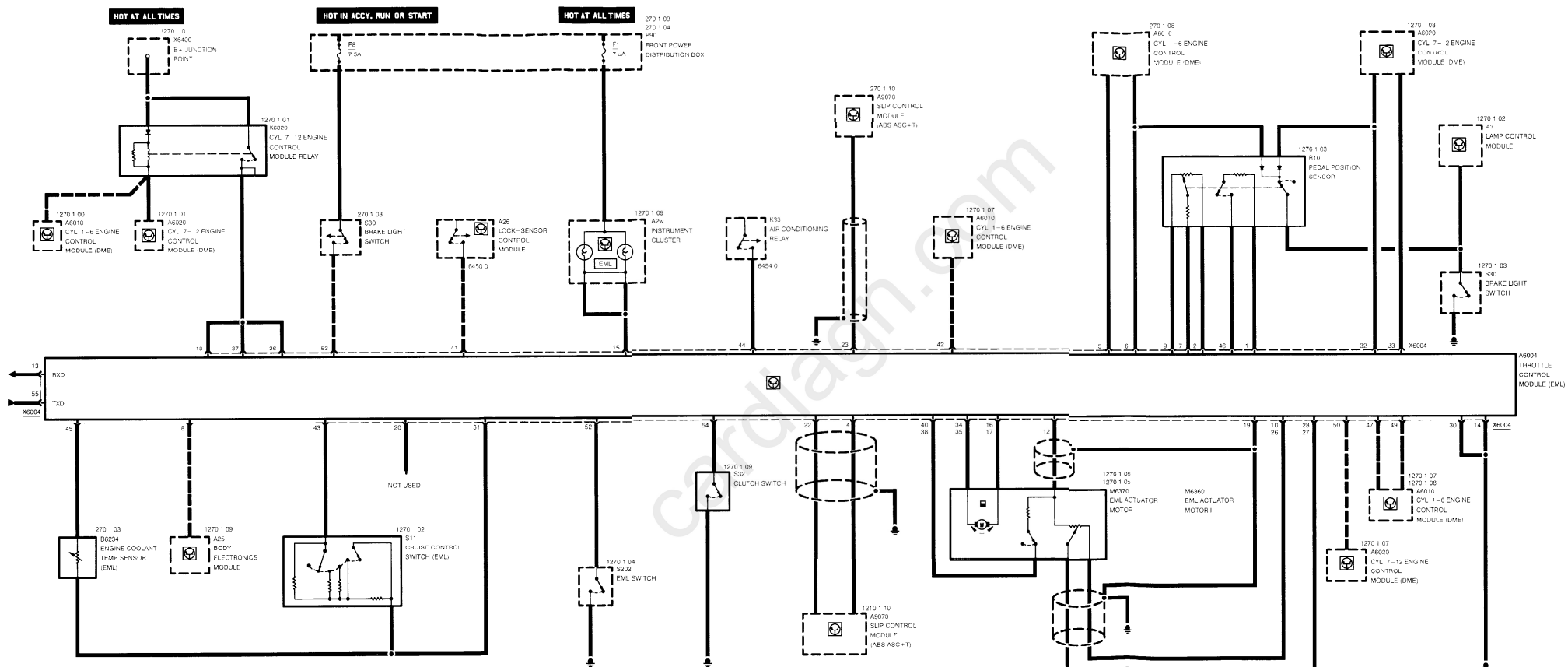
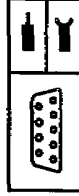






Pin Assignments

X6004

Pin	Type	Description/Function	Connection
1	A	5 V (not short-circuit-proof)	Pedal position sensor
2	M	Ground (electronic ground)	Pedal position sensor ground
3		Not used	
4	E	Throttle valve angle reduction (DKR)	Slip control module (ASC + T)
5	A	Wide open throttle signal	Cyl. 1-6 engine control module (DME)
6	A	Idle signal	Cyl. 1-6 engine control module (DME)
7	E	Pedal position	Pedal position sensor
8	E	Speedometer signal	Body electronics module (EKM)
9	A	5 V (not short-circuit-proof)	Pedal position sensor
10	M	Ground (electronic ground)	Component ground Cyl. 7-12 throttle body
11	A	5 V (not short-circuit-proof)	Cyl. 7-12 throttle body
12	A	5 V (not short-circuit-proof)	Cyl. 1-6 throttle body
13	E	RxD diagnostic data line	Data link connector
14	M	Ground (Output ground)	Output ground Cyl. 1-6 throttle body
15	A	EML warning lamp	Instrument cluster
	E	Voltage supply for defect code memory	
16	A	Throttle actuator (DK)	Cyl. 7-12 throttle body
17	A	Throttle actuator (DK)	Cyl. 1-6 throttle body
18	E	Voltage supply (+)	Cyl. 7-12 engine control module relay
19	M	Ground	Ground point
20	A	Kick-down signal	Not used
21		Not used	
22	E	Throttle valve angle increase (DKE)	Slip control module (ASC + T)
23	A	Throttle valve angle signal (DKV)	Slip control module (ASC + T)
24		Not used	
25		Not used	
26	M	Ground (electronic ground)	Component ground Cyl. 1-6 throttle body
27	E	Throttle position	Cyl. 1-6 throttle body potentiometer
28	E	Throttle position	Cyl. 7-12 throttle body potentiometer

E = Input, A = Output, M = Ground



Pin Assignments

Pin	Type	Description/Function	Connection
29		Not used	
30	M	Ground (output ground)	Output ground Cyl. 7-12 throttle body
31	M	Ground (electronic ground)	Engine coolant temperature sensor (EML)
32	A	Idle signal	Cyl. 7-12 engine control module (DME)
33	A	Wide open throttle	Cyl. 7-12 engine control module (DME)
34	A	Throttle actuator (DK)	Cyl. 7-12 throttle body
35	A	Throttle actuator (DK)	Cyl. 1-6 throttle body
36	E	Voltage supply (+)	Cyl. 7-12 engine control module relay
37	E	Voltage supply (+)	Cyl. 7-12 engine control module relay
38	E	Throttle angle 17° switch	Cyl. 1-6 throttle body
39		Not used	
40	E	Throttle angle 17° switch	Cyl. 7-12 throttle body
41	E	A/C compressor ON	Lock sensor control module
42	E	Park/Neutral sensing	Cyl. 1-6 engine control module (DME)
43	E/A	Cruise control	Cruise control switch
44	E	A/C status signal	Air conditioning relay
45	E/A	Engine coolant temperature	Engine coolant temperature sensor (EML)
46	E	Pedal position sensor 9° switch	Pedal position sensor
47	E	Engine speed signal (TD)	Cyl. 1-6 engine control module (DME)
48		Not used	
49	E	Injection signal (ti)	Cyl. 1-6 engine control module (DME)
50	E	Injection signal (ti)	Cyl. 1-6 engine control module (DME)
51		Not used	
52	E	S-program identifier	EML switch
53	E	Brake pedal position	Brake light switch
54	E	Clutch pedal position	Clutch switch
55	E/A	TxD diagnostic data line	Data link connector

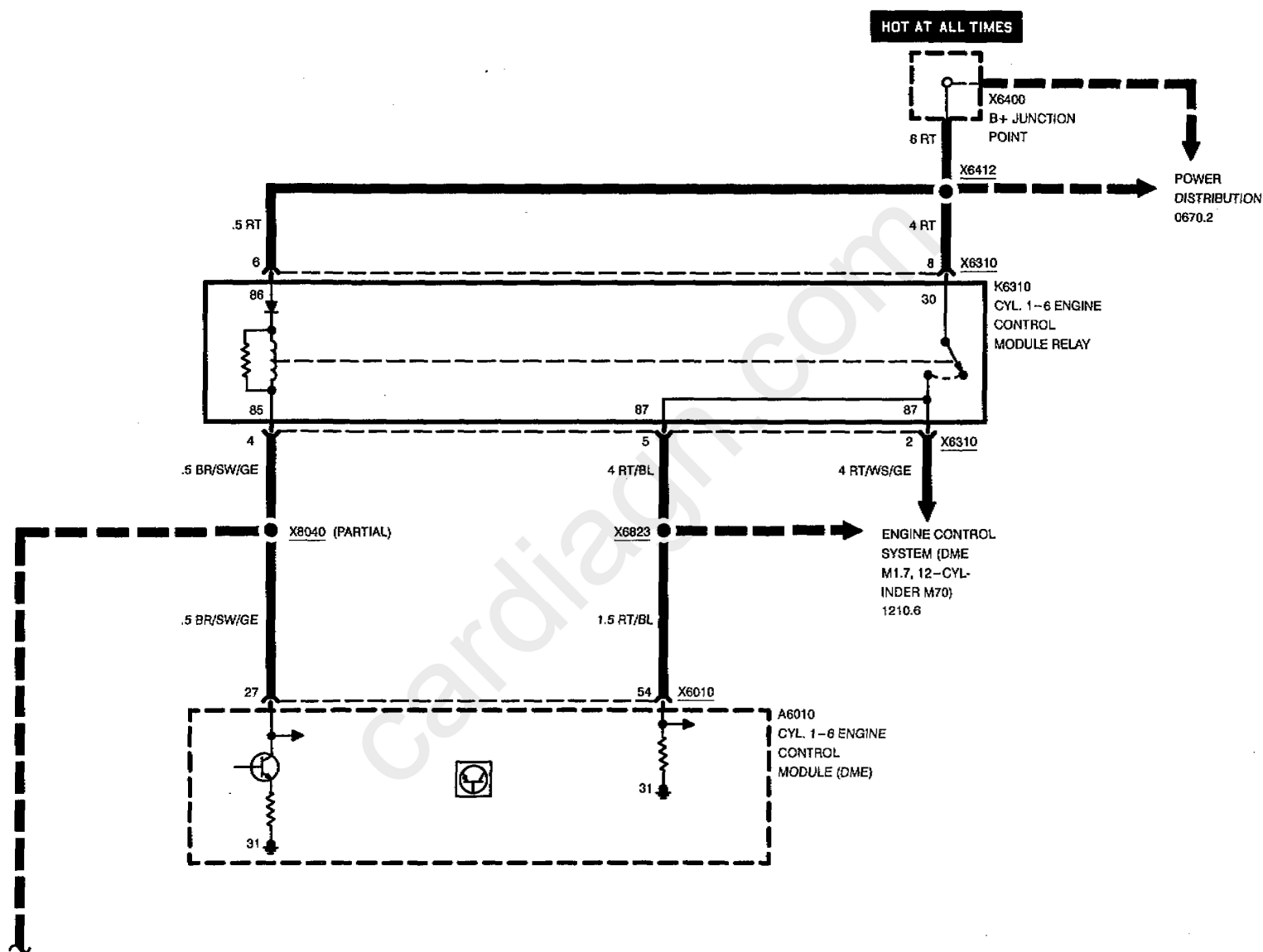
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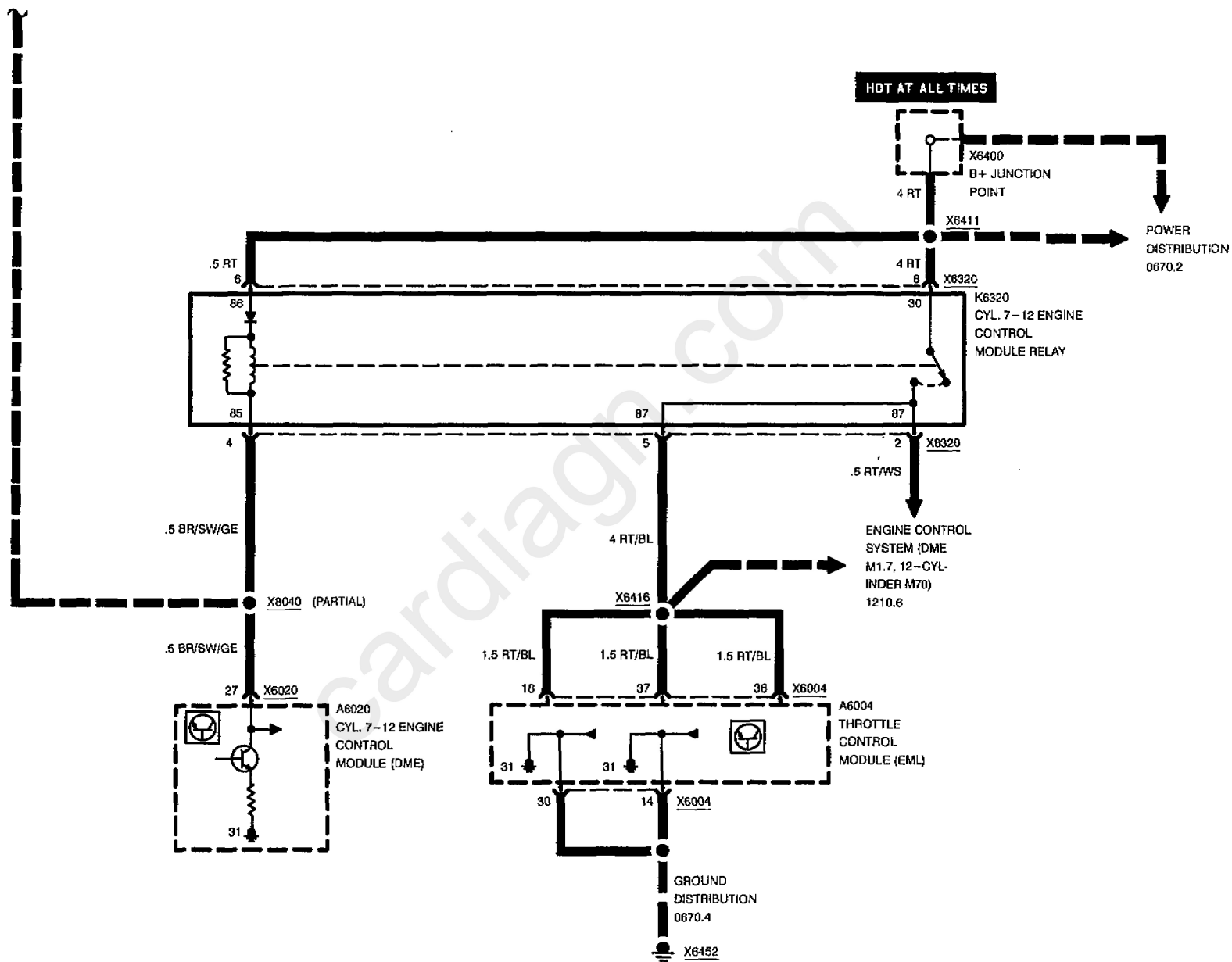


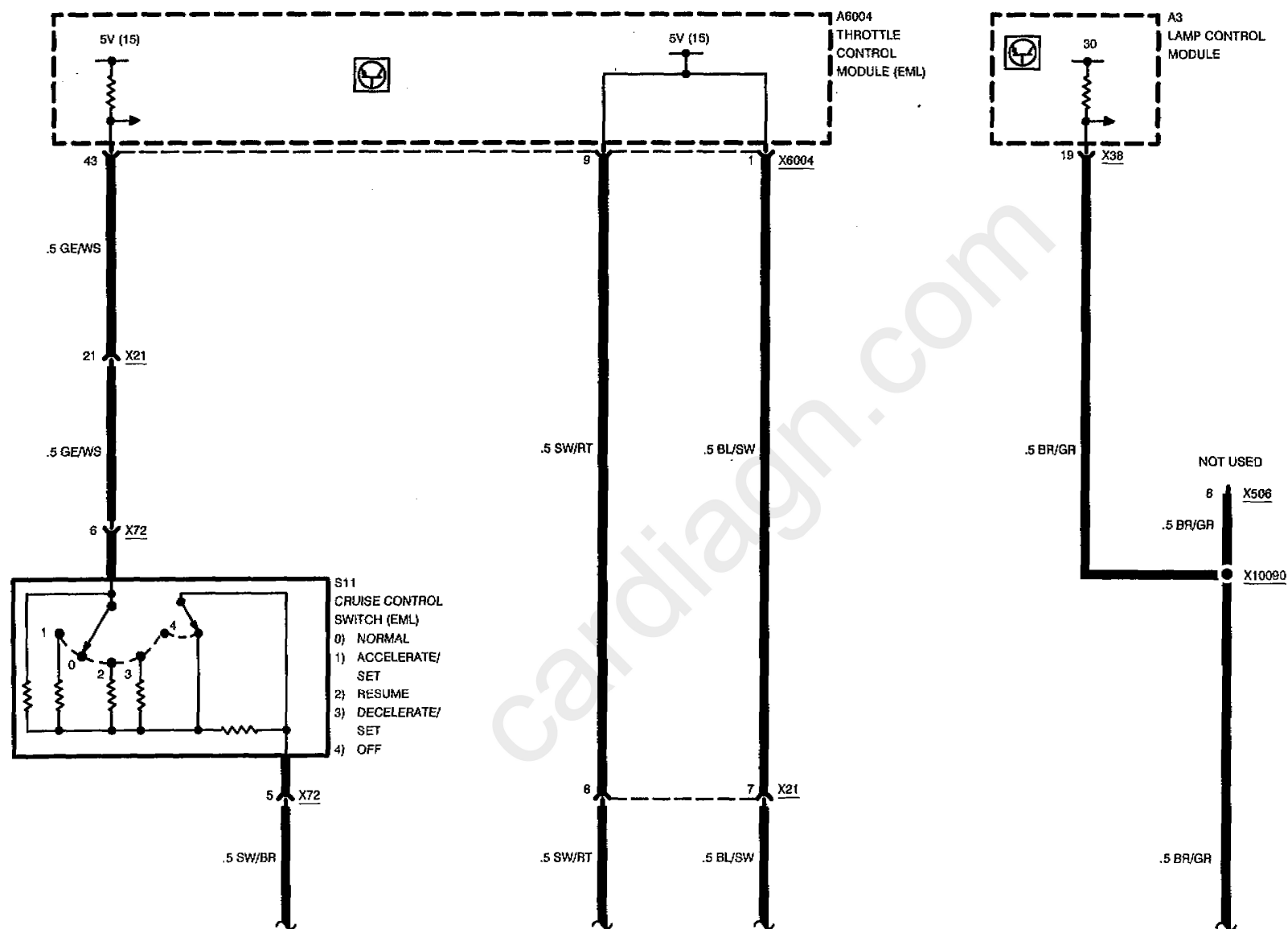
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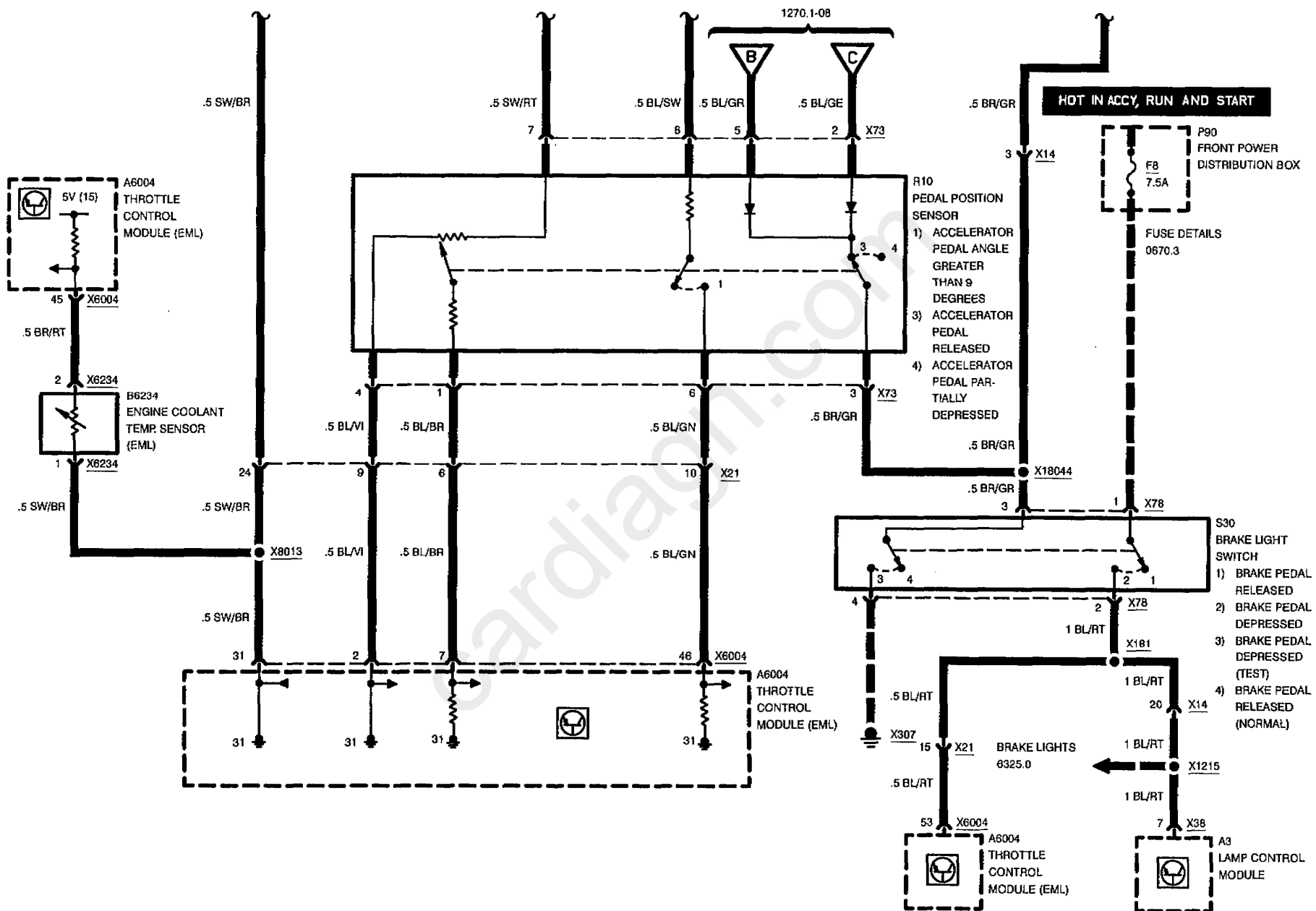


ELECTRONIC THROTTLE CONTROL (EML 12-CYLINDER)



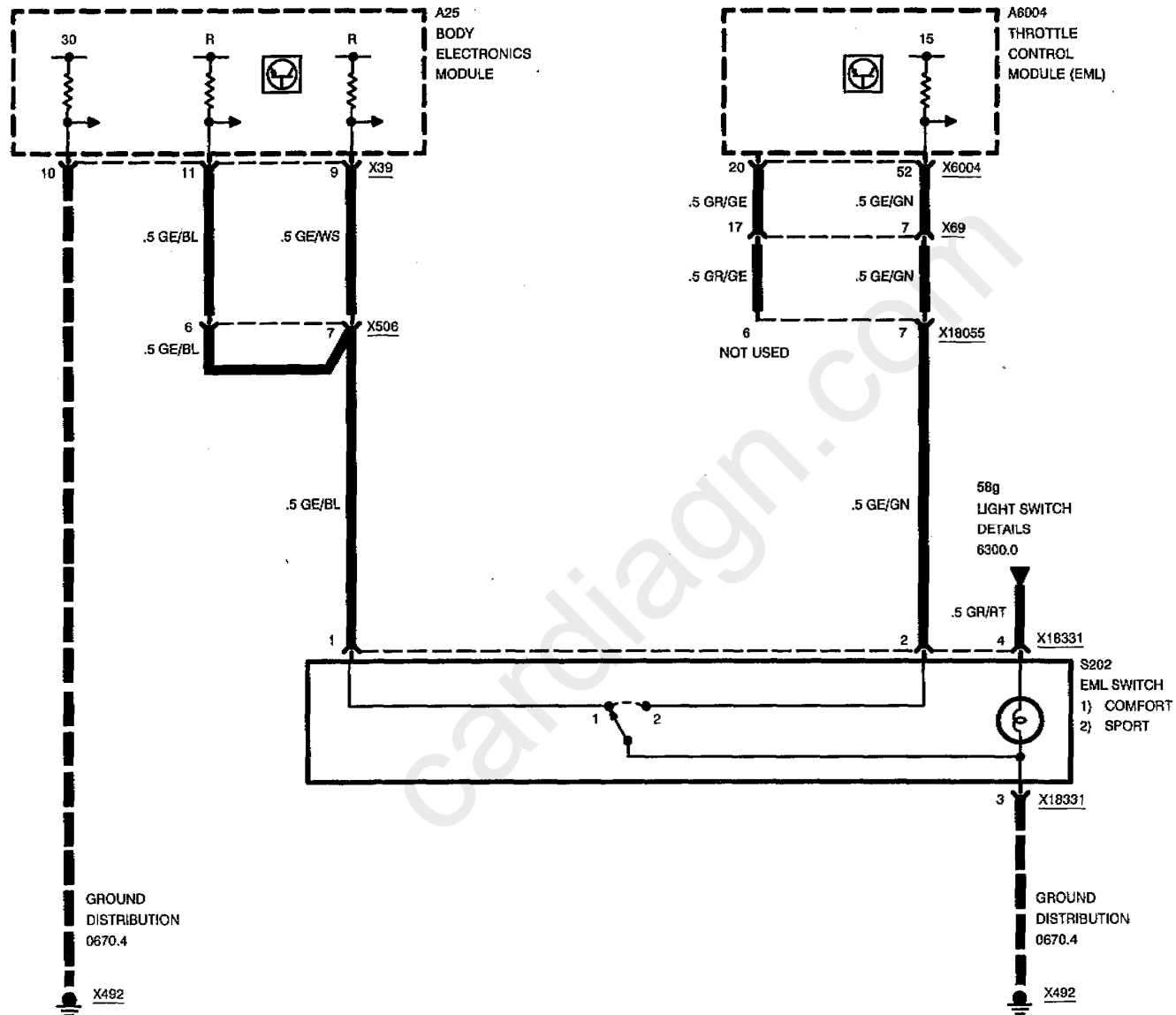






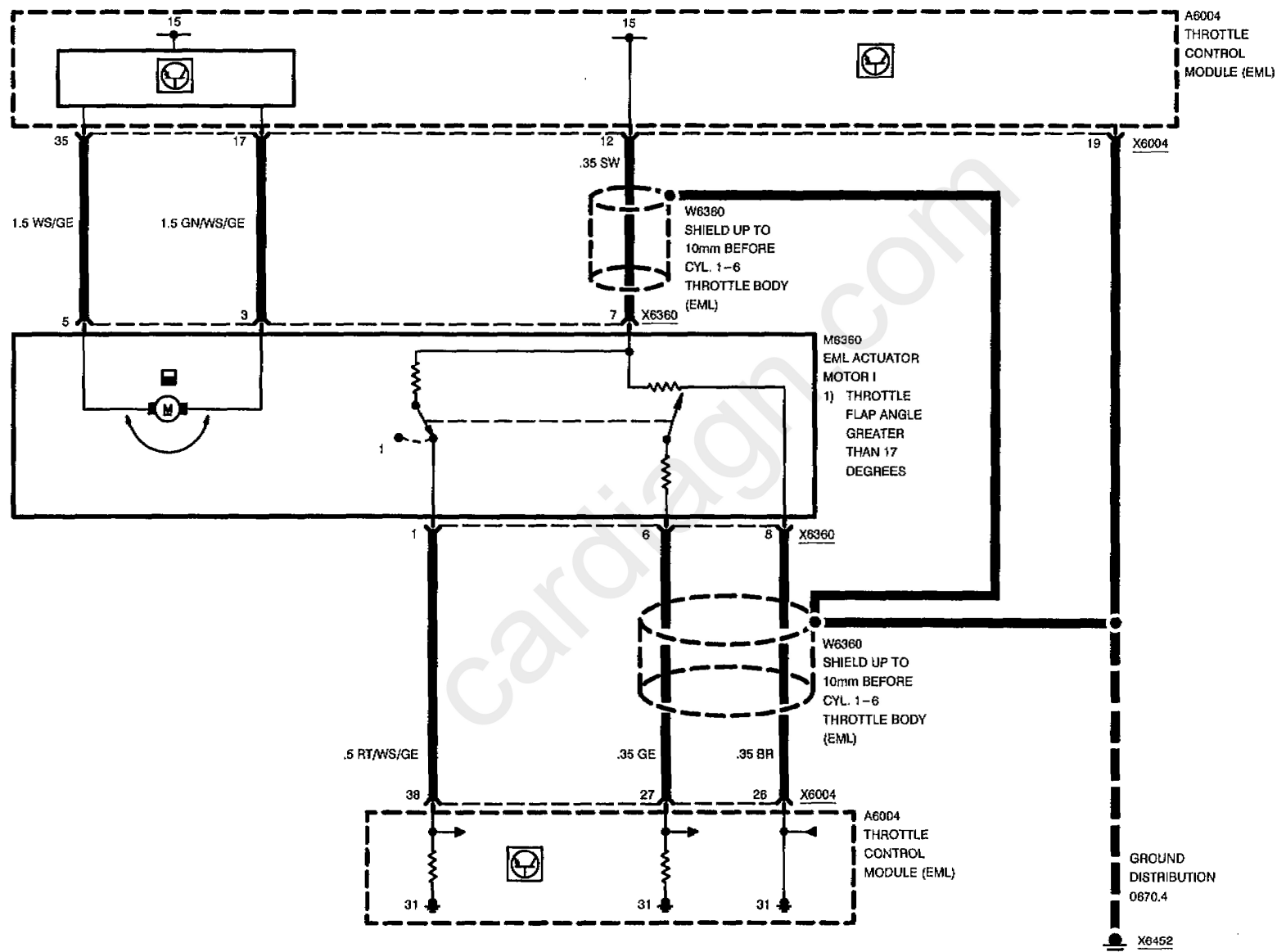


ELECTRONIC THROTTLE CONTROL (EML 12-CYLINDER)





ELECTRONIC THROTTLE CONTROL (EML 12-CYLINDER)



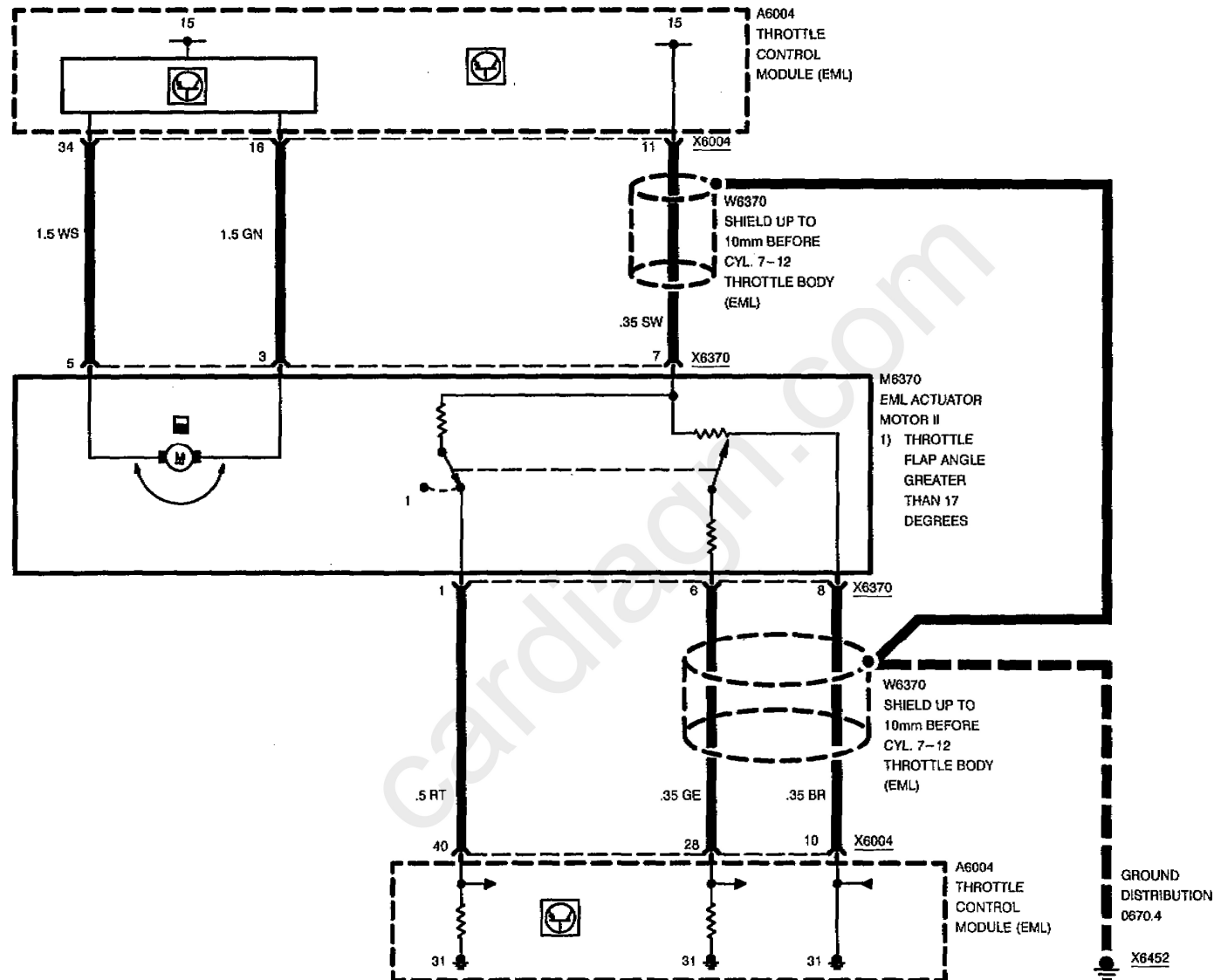
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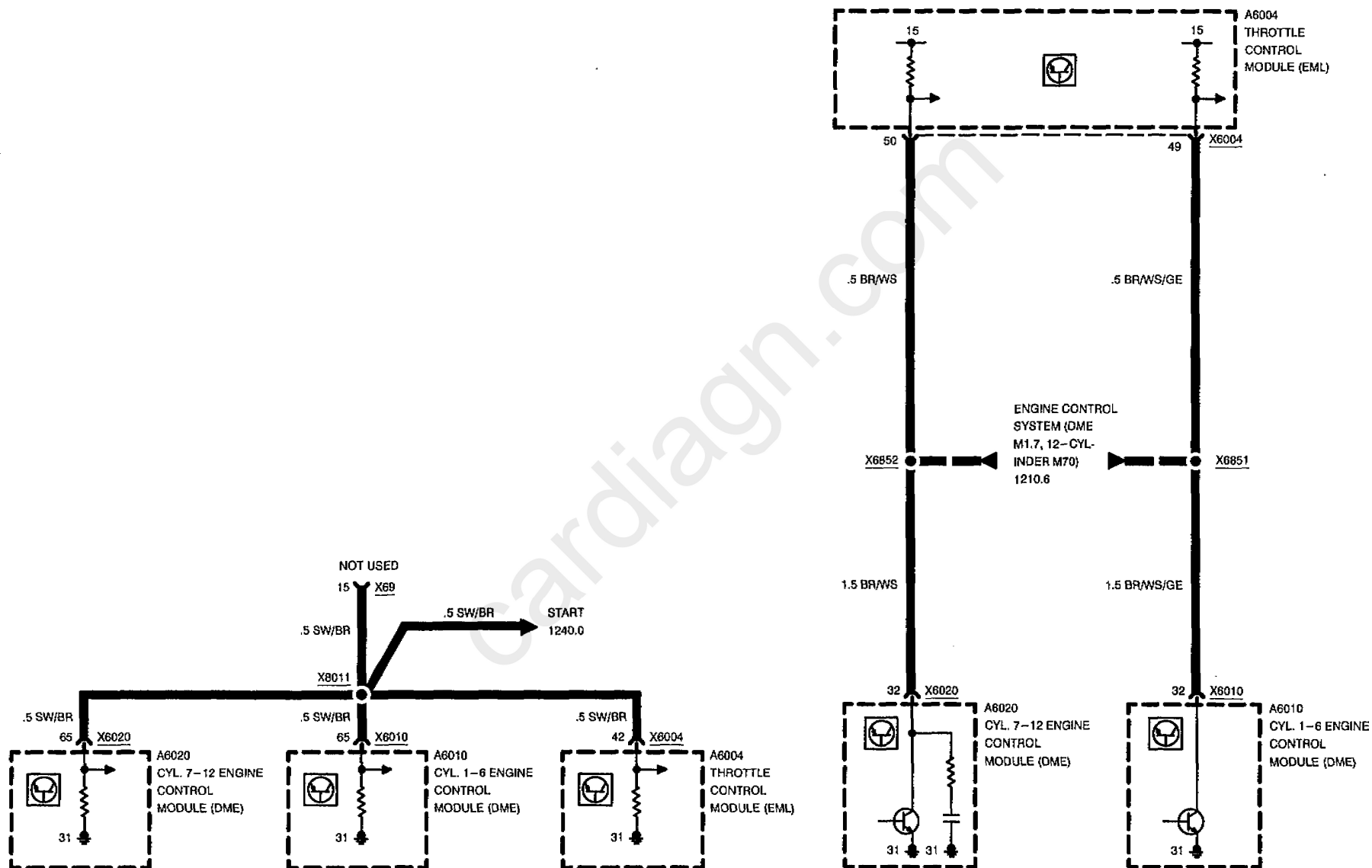


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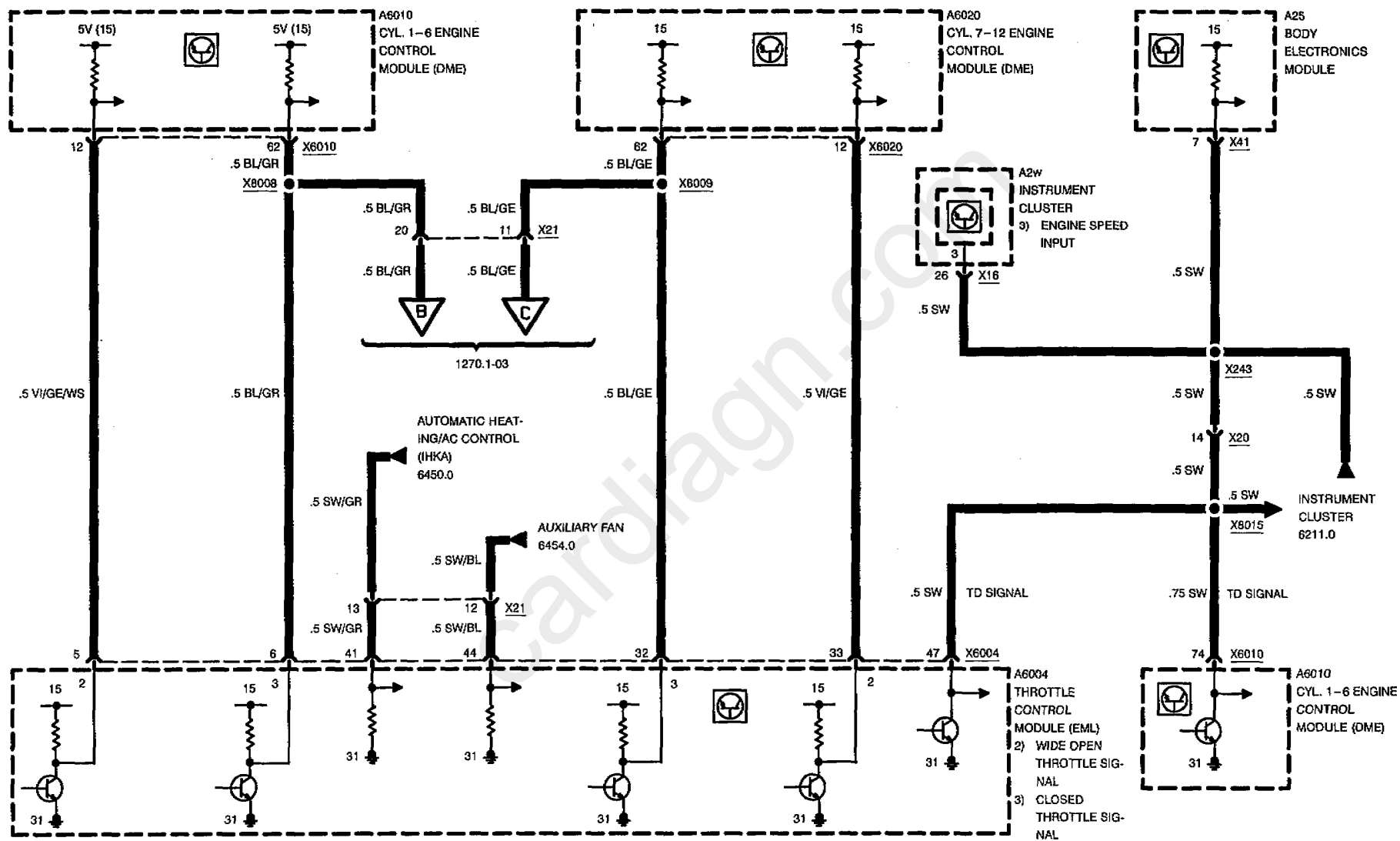


ELECTRONIC THROTTLE CONTROL (EML 12-CYLINDER)





ELECTRONIC THROTTLE CONTROL (EML 12-CYLINDER)

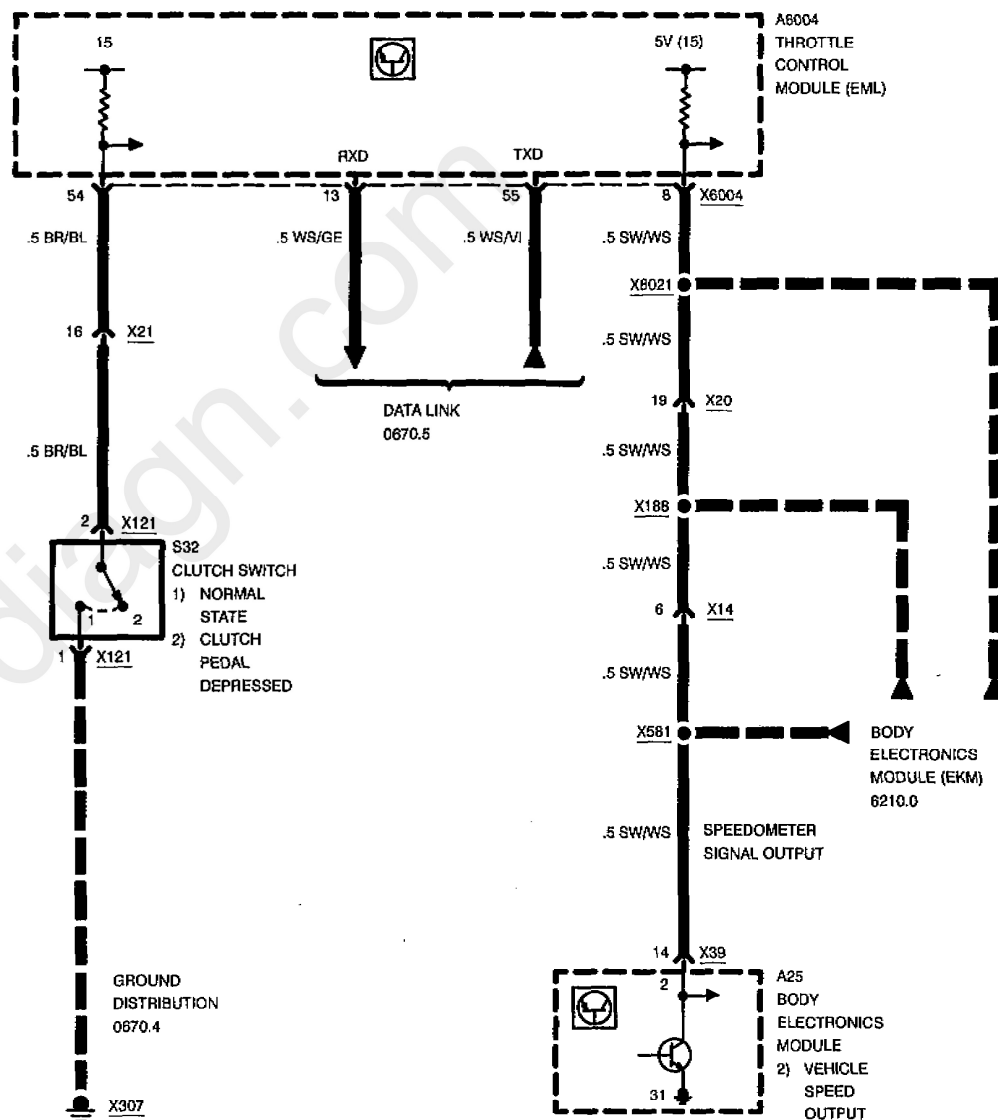
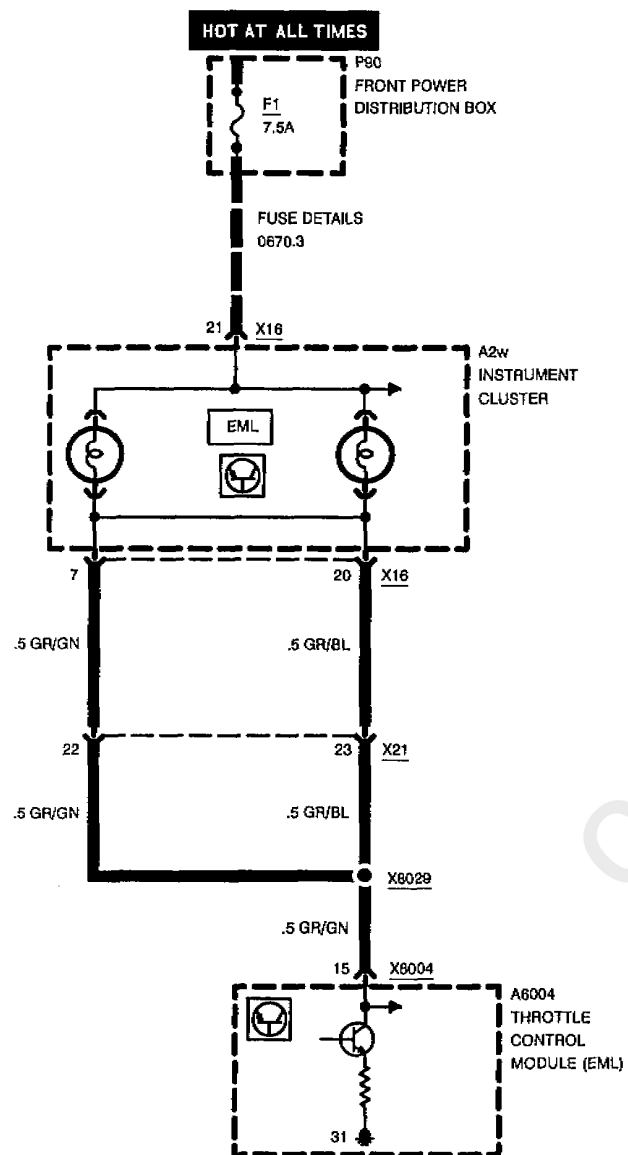


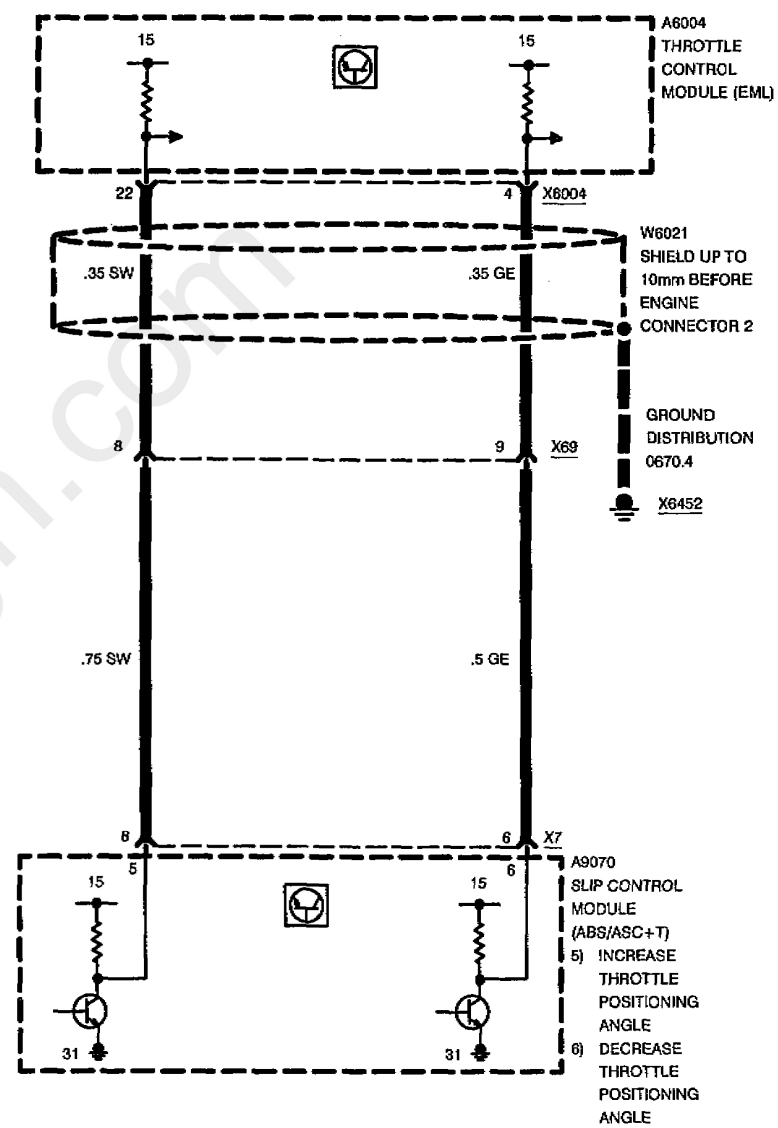
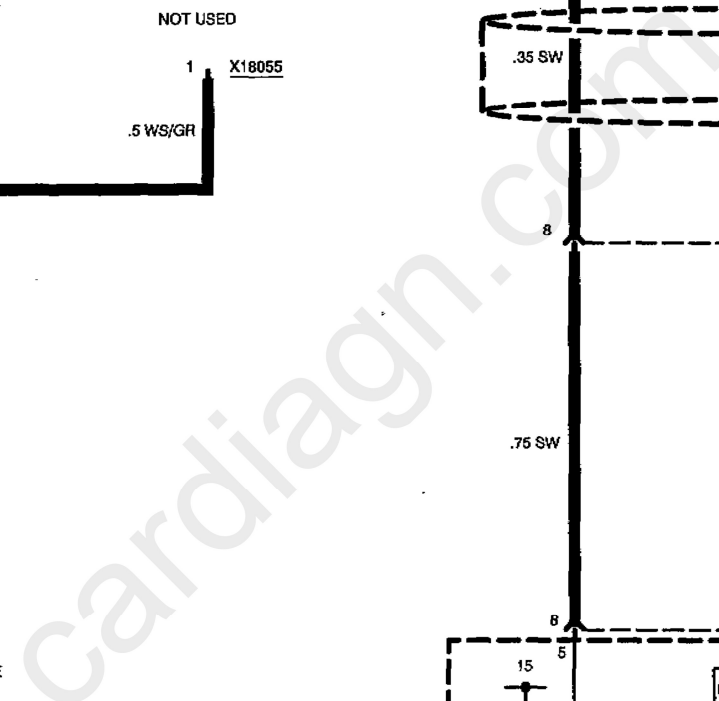
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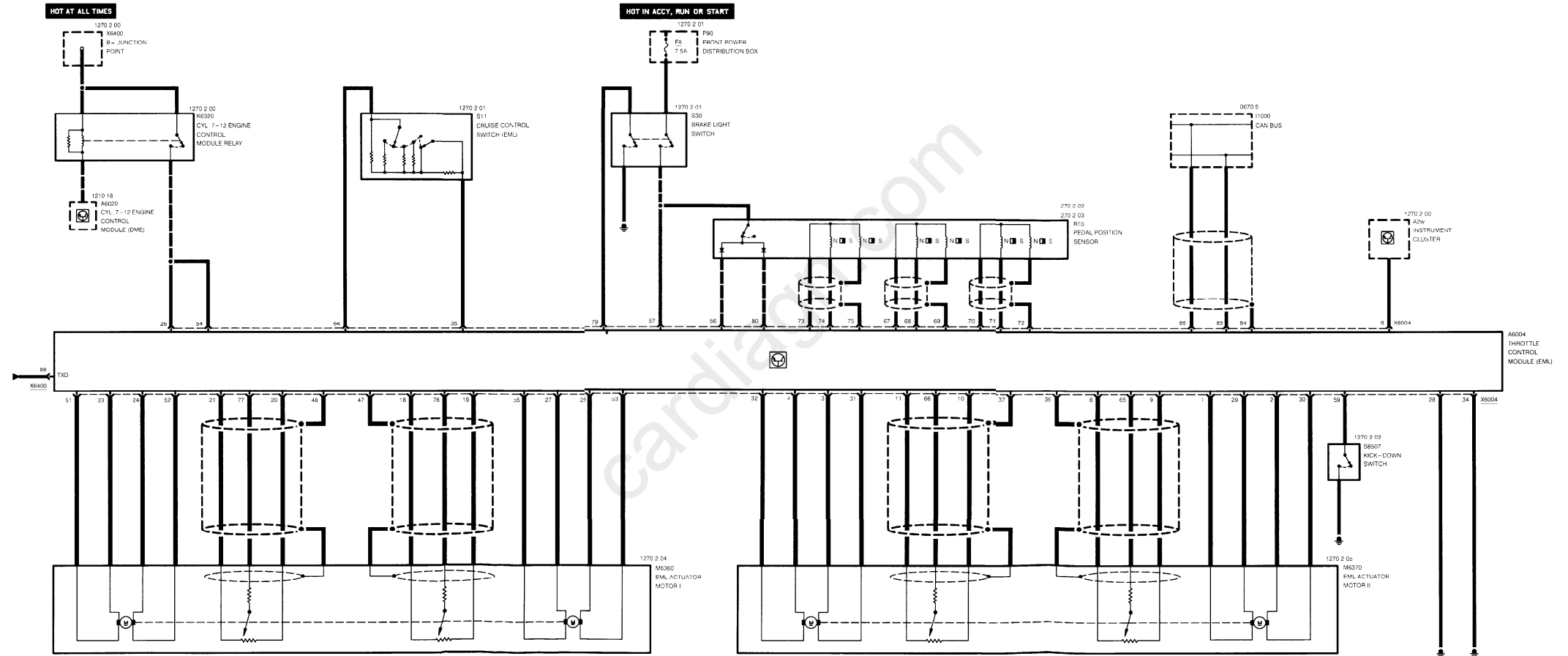
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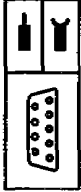
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ELECTRONIC THROTTLE CONTROL (EML 12-CYLINDER)







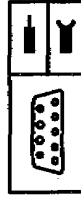


Pin Assignments

X6010

Pin	Type	Description/Function	Connection
1	A	Cosine winding signal, terminal connection A (DK2-C2A)	EML actuator motor II Stepper motor 2
2	A	Sine winding signal, terminal connection A (DK2-S2A)	EML actuator motor II Stepper motor 2
3	A	Cosine winding signal, terminal connection A (DK2-C1A)	EML actuator motor II Stepper motor 1
4	A	Sine winding signal, terminal connection B (DK2-S1B)	EML actuator motor II Stepper motor 1
5		Not used	
6	A	EML fault indication signal (EML-WL)	Instrument cluster
7		Not used	
8	M	Ground, potentiometer 2 (DK2-GND2)	EML actuator motor II
9	A	5 V signal, potentiometer 2 (DK2-5V-2)	EML actuator motor II
10	A	5 V signal, potentiometer 1 (DK2-5V-1)	EML actuator motor II
11	M	Ground, potentiometer 1 (DK2-GND1)	EML actuator motor II
12		Not used	
13		Not used	
14		Not used	
15		Not used	
16		Not used	
17		Not used	
18	M	Ground, potentiometer 2 (DK1-GND2)	EML actuator motor I
19	A	5 V signal, potentiometer 2 (DK1-5V-2)	EML actuator motor I
20	A	5 V signal, potentiometer 1 (DK1-5V-1)	EML actuator motor I
21	M	Ground, potentiometer 1 (DK1-GND1)	EML actuator motor I
22		Not used	
23	A	Sine winding signal, terminal connection B (DK1-S1B)	EML actuator motor I Stepper motor 1
24	A	Cosine winding signal, terminal connection A (DK1-C1A)	EML actuator motor I Stepper motor 1

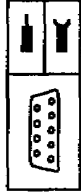
E = Input, A = Output, M = Ground



Pin Assignments

Pin	Type	Description/Function	Connection
25	A	Sine winding signal, terminal connection A (DK1-S2A)	EML actuator motor I Stepper motor 2
26	E	Terminal 87 (Battery voltage)	Cyl.7-12 engine control module relay
27	A	Cosine winding signal, terminal connection B (DK1-C2B)	EML actuator motor I Stepper motor 2
28	M	Terminal 31 (Ground)	Ground
29	A	Cosine winding signal, terminal connection B (DK2-C2B)	EML actuator motor II Stepper motor 2
30	A	Sine winding signal, terminal connection B (DK2-S2B)	EML actuator motor II Stepper motor 2
31	A	Cosine winding signal, terminal connection B (DK2-C1B)	EML actuator motor II Stepper motor 1
32	A	Sine winding signal, terminal connection A (DK2-S1A)	EML actuator motor II Stepper motor 1
33		Not used	
34	M	Terminal 31 (Ground)	Ground
35	E	Cruise control signal	Cruise control switch (EML)
36	M	Shield, potentiometer 2 (DK2-SCH2)	EML actuator motor II
37	M	Shield, potentiometer 1 (DK2-SCH1)	EML actuator motor II
38		Not used	
39		Not used	
40		Not used	
41		Not used	
42		Not used	
43		Not used	
44		Not used	
45		Not used	
46		Not used	
47	M	Shield, potentiometer 2 (DK1-SCH2)	EML actuator motor I
48	M	Shield, potentiometer 1 (DK1-SCH1)	EML actuator motor I
49		Not used	
50		Not used	
51	A	Sine winding signal, terminal connection A (DK1-S1A)	EML actuator motor I Stepper motor 1

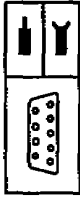
E = Input, A = Output, M = Ground



Pin Assignments

Pin	Type	Description/Function	Connection
52	A	Cosine winding signal, terminal connection B (DK1-C1B)	EML actuator motor I Stepper motor 1
53	A	Sine winding signal, terminal connection B (DK1-S1B)	EML actuator motor I Stepper motor 2
54	E	Terminal 87 (Battery voltage)	Cyl. 7-12 engine control module relay
55	A	Cosine winding signal, terminal connection A (DK1-C2A)	EML actuator motor I Stepper motor 2
56	E/A	Inertia fuel shutoff switch signal (SKA2)	Pedal position sensor, Cyl.7-12 engine control module (DME)
57	E	Brake light switch signal	Brake light switch
58		Not used	
59	E	Kick-down switch signal (S-KD)	Kick-down switch
60		Not used	
61		Not used	
62		Not used	
63		Not used	
64	A	Cruise control (+)	Cruise control switch (EML)
65	E	Potentiometer 2 signal (DK2-SIG2)	EML actuator motor II
66	E	Potentiometer 1 signal (DK2-SIG1)	EML actuator motor II
67	A	Sensor 2 signal Oscillator output (PWG2-OSZ)	Pedal position sensor
68	E	Sensor 2 signal Signal input (PWG2-SIG)	Pedal position sensor
69	M	Shield, sensor 2 (PWG2-SCH)	Pedal position sensor
70	A	Sensor 3 signal Oscillator output (PWG3-OSZ)	Pedal position sensor
71	E	Sensor 3 signal Signal input (PWG3-SIG)	Pedal position sensor
72	M	Shield, sensor 3 (PWG3-SCH)	Pedal position sensor
73	A	Sensor 1 signal Oscillator output (PWG1-OSZ)	Pedal position sensor
74	E	Sensor 1 signal Signal input (PWG1-SIG)	Pedal position sensor
75	M	Shield, sensor 1 (PWG1-SCH)	Pedal position sensor
76	E	Potentiometer 2 signal (DK1-SIG2)	EML actuator motor I
77	E	Potentiometer 1 signal (DK1-SIG1)	EML actuator motor I
78		Not used	

E = Input, A = Output, M = Ground



Pin Assignments

Pin	Type	Description/Function	Connection
79	E	Brake light switch test signal	Brake light switch
80	E/A	Inertia fuel shutoff switch signal (SKA1)	Pedal position sensor, Cyl. 1-6 engine control module (DME)
81		Not used	
82		Not used	
83		Not used	
84	M	CANCA-S	Shield
85	E/A	CANCA-L	CAN BUS
86	E/A	CANCA-H	CAN BUS
87		Not used	
88	E/A	Diagnosis	Data link connector TXD

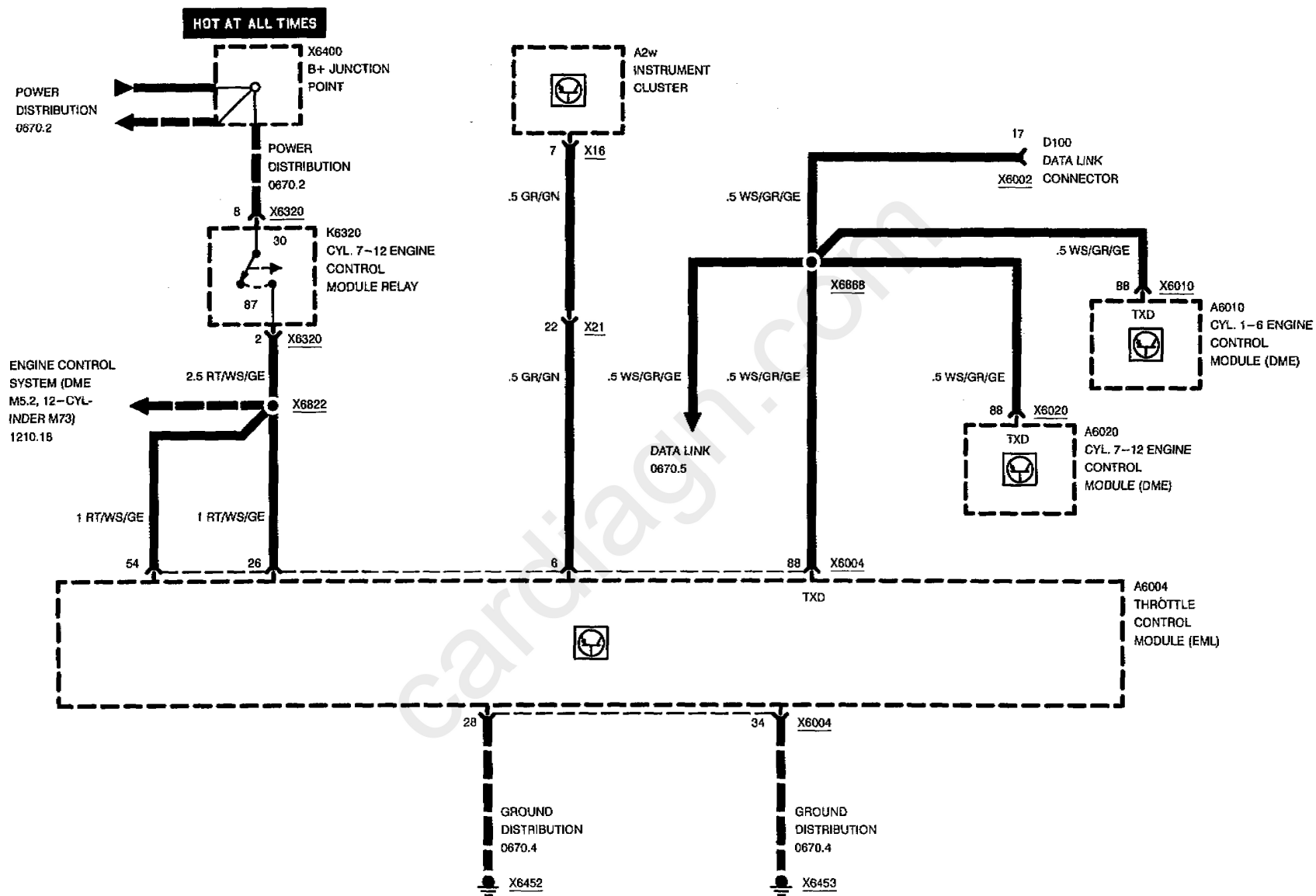
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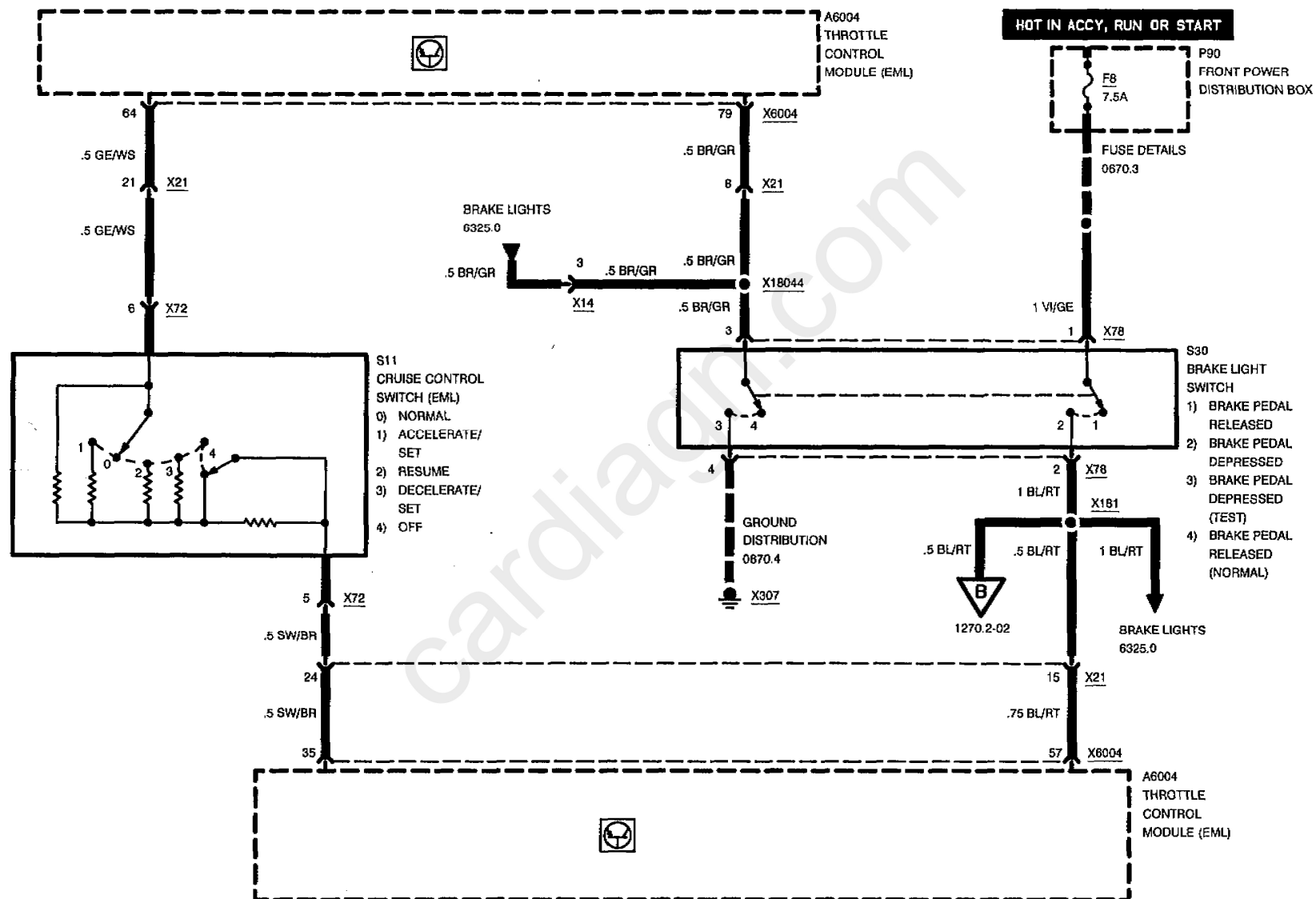


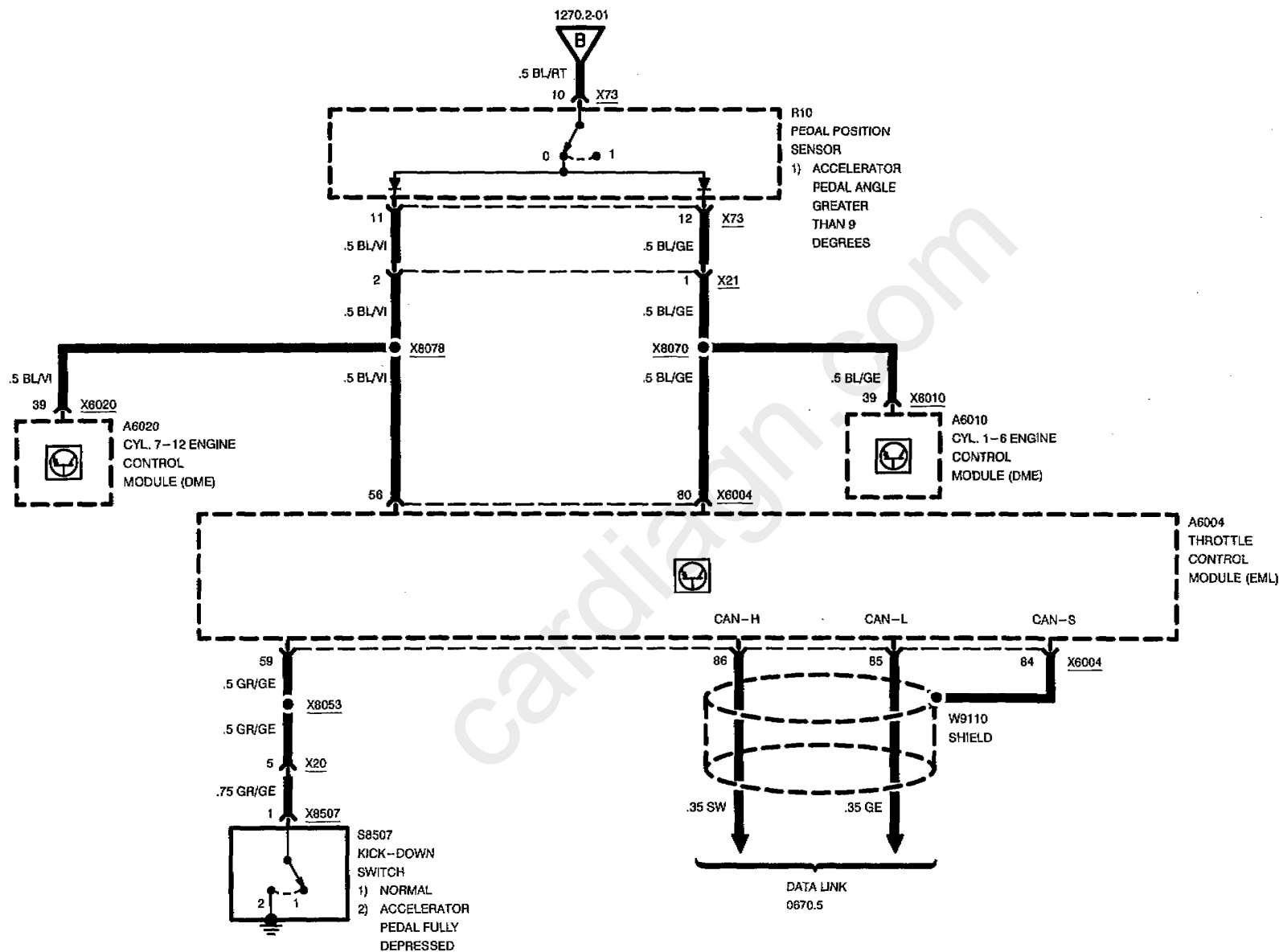
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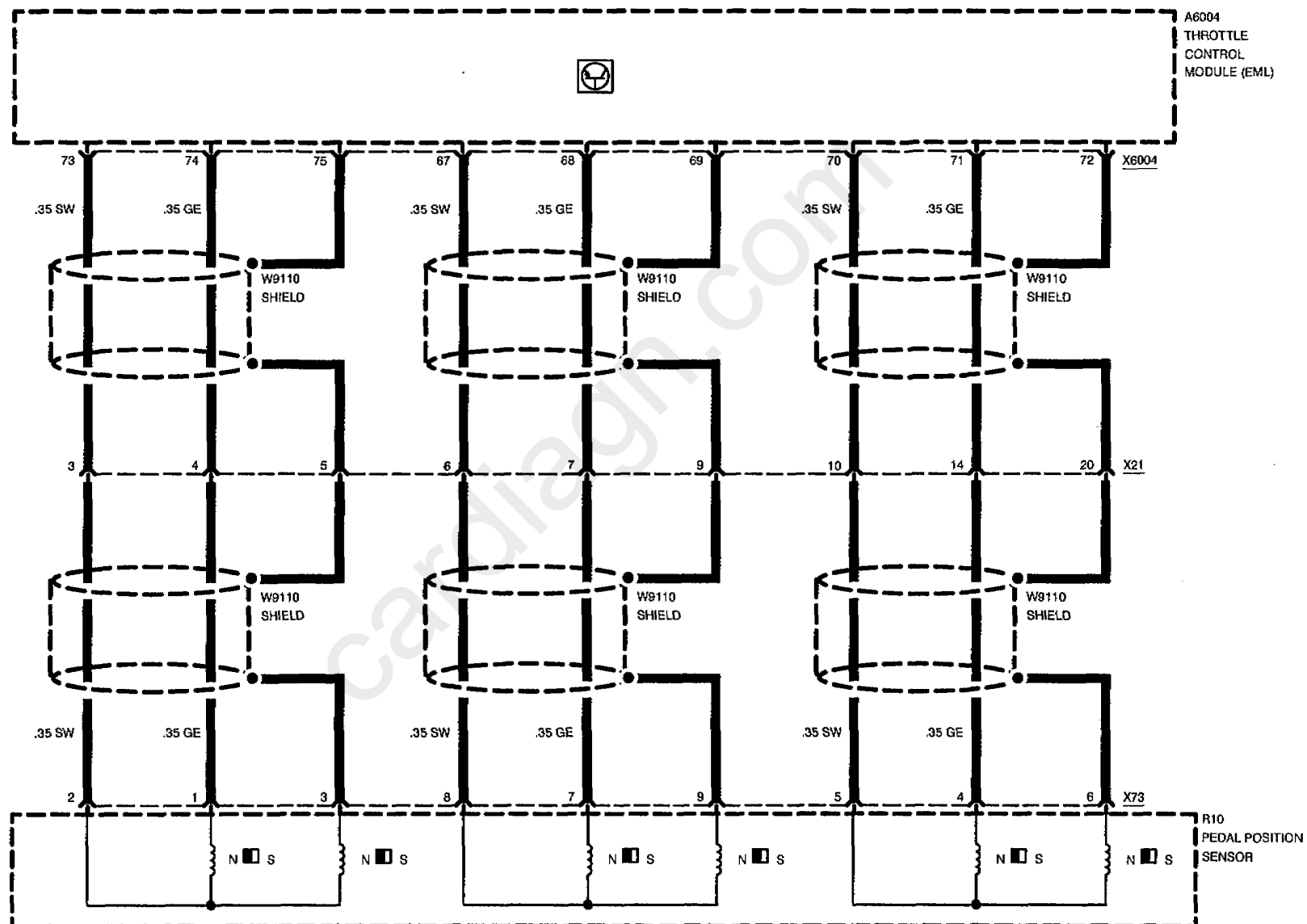
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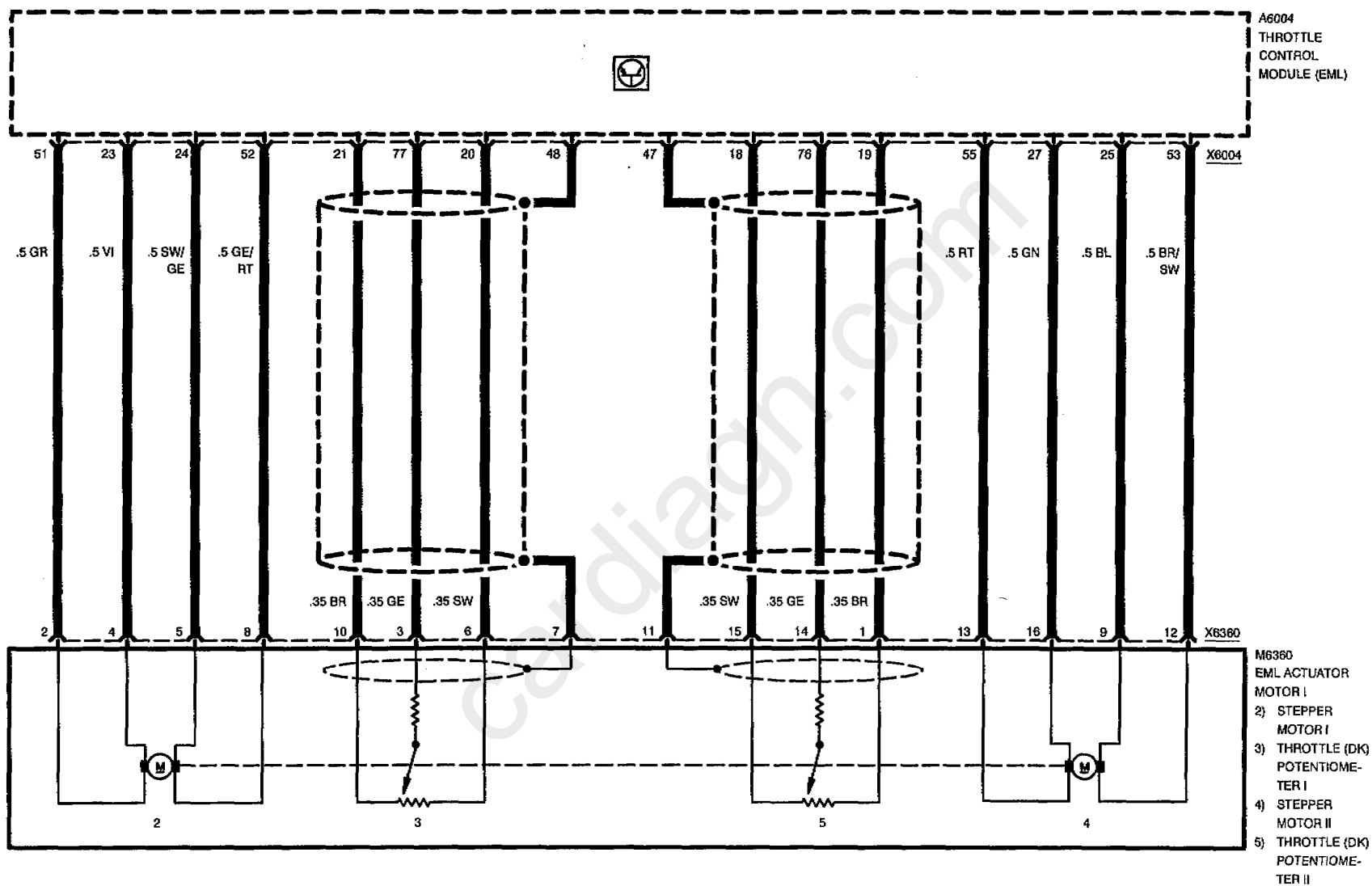






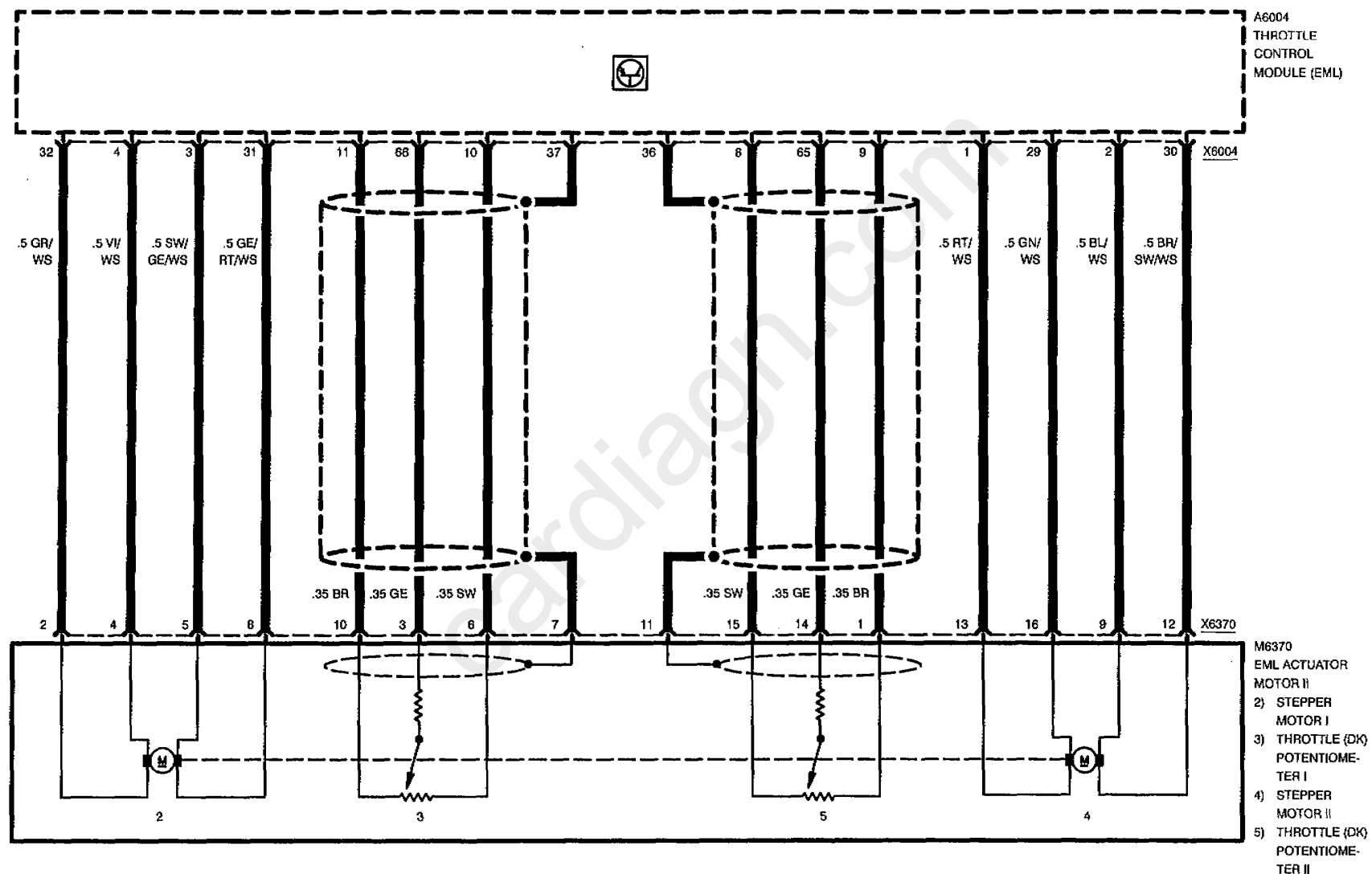
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