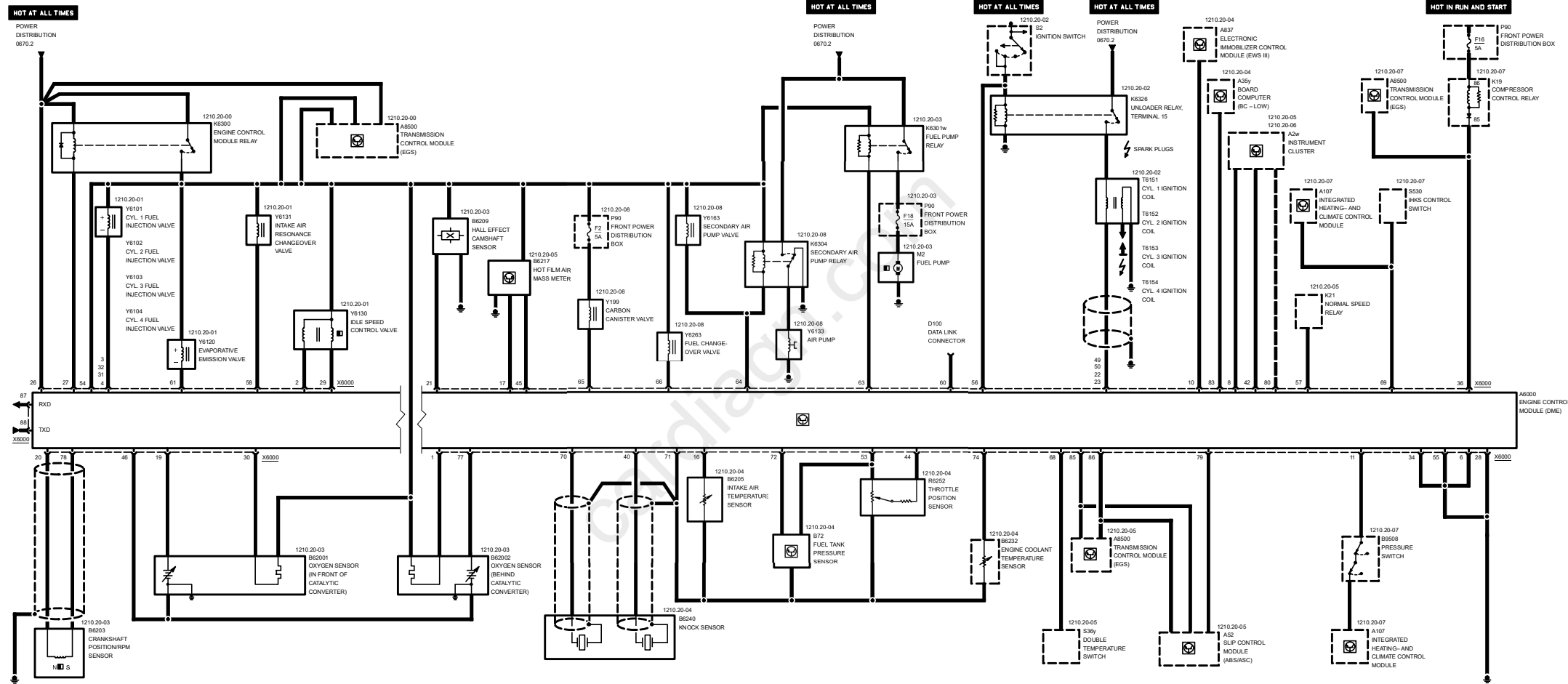
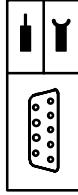


1210.20 ENGINE CONTROL SYSTEM (DME M5.2, 4-CYLINDER M44)



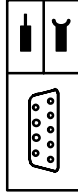


Pin Assignments

X6000

Pin	Type	Description/Function	Connection
1	A	Oxygen sensor heating (-)	Oxygen sensor (behind catalytic converter)
2	A	Activate valve	Idle speed control valve
3	A	Activate valve	Cyl. 1 fuel injection valve
4	A	Activate valve	Cyl. 4 fuel injection valve
5		Not used	
6	M	Ground, fuel injection valve output stages	Ground point
7		Not used	
8	A	"Check engine" indicator control	Instrument cluster
9		Not used	
10	E	Drive away protection signal	Electronic immobilizer control module (EWS III)
11	E	Activate A/C	Pressure switch
12		Not used	
13		Not used	
14		Not used	
15		Not used	
16	E	Intake air temperature	Intake air temperature sensor
17	E	Signal input	Hot film air mass meter
18		Not used	
19	E	Oxygen sensor signal	Oxygen sensor (in front of catalytic converter)
20	E	Crankshaft position/RPM	Crankshaft position/RPM sensor
21	E	Camshaft position	Hall effect camshaft sensor
22	A	Cyl. 3 ignition coil control	Cyl. 3 ignition coil
23	A	Cyl. 4 ignition coil control	Cyl. 4 ignition coil
24		Not used	
25		Not used	
26	E	Battery voltage	B+ junction point
27	A	Engine control module relay control	Engine control module relay, terminal 85
28	M	Ground for electronics and shielding of sensors	Ground point

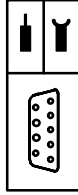
E = Input, A = Output, M = Ground



Pin Assignments

Pin	Type	Description/Function	Connection
29	A	Idle speed control valve control	Idle speed control valve
30	A	Oxygen sensor heating (-)	Oxygen sensor (in front of catalytic converter)
31	A	Activate valve	Cyl. 3 fuel injection valve
32	A	Activate valve	Cyl. 2 fuel injection valve
33		Not used	
34	M	Ground, remaining output stages (except for ignition and fuel injection valves)	Ground point
35		Not used	
36	A	A/C compressor cut-out	Compressor control relay
37		Not used	
38		Not used	
39		Not used	
40	E	Cyl. 3-4 knock sensor	Knock sensor
41		Not used	
42	E	TI-measurement signal (fuel consumption)	Instrument cluster
43		Not used	
44	E	Throttle position	Throttle position sensor
45	M	Ground	Hot film air mass meter
46	M	Sensor ground	Oxygen sensors
47		Not used	
48		Not used	
49	A	Cyl. 1 ignition coil control	Cyl. 1 ignition coil
50	A	Cyl. 2 ignition coil control	Cyl. 2 ignition coil
51		Not used	
52		Not used	
53	A	Component supply (+)	Throttle position sensor/Fuel tank pressure sensor
54	E	Battery voltage from engine control module relay	Engine control module relay, terminal 87
55	M	Ground, ignition	Ground point
56	E	Ignition switch, terminal 15	Ignition switch, terminal 15
57	A	Activate auxiliary fan	Normal speed relay

E = Input, A = Output, M = Ground



Pin Assignments

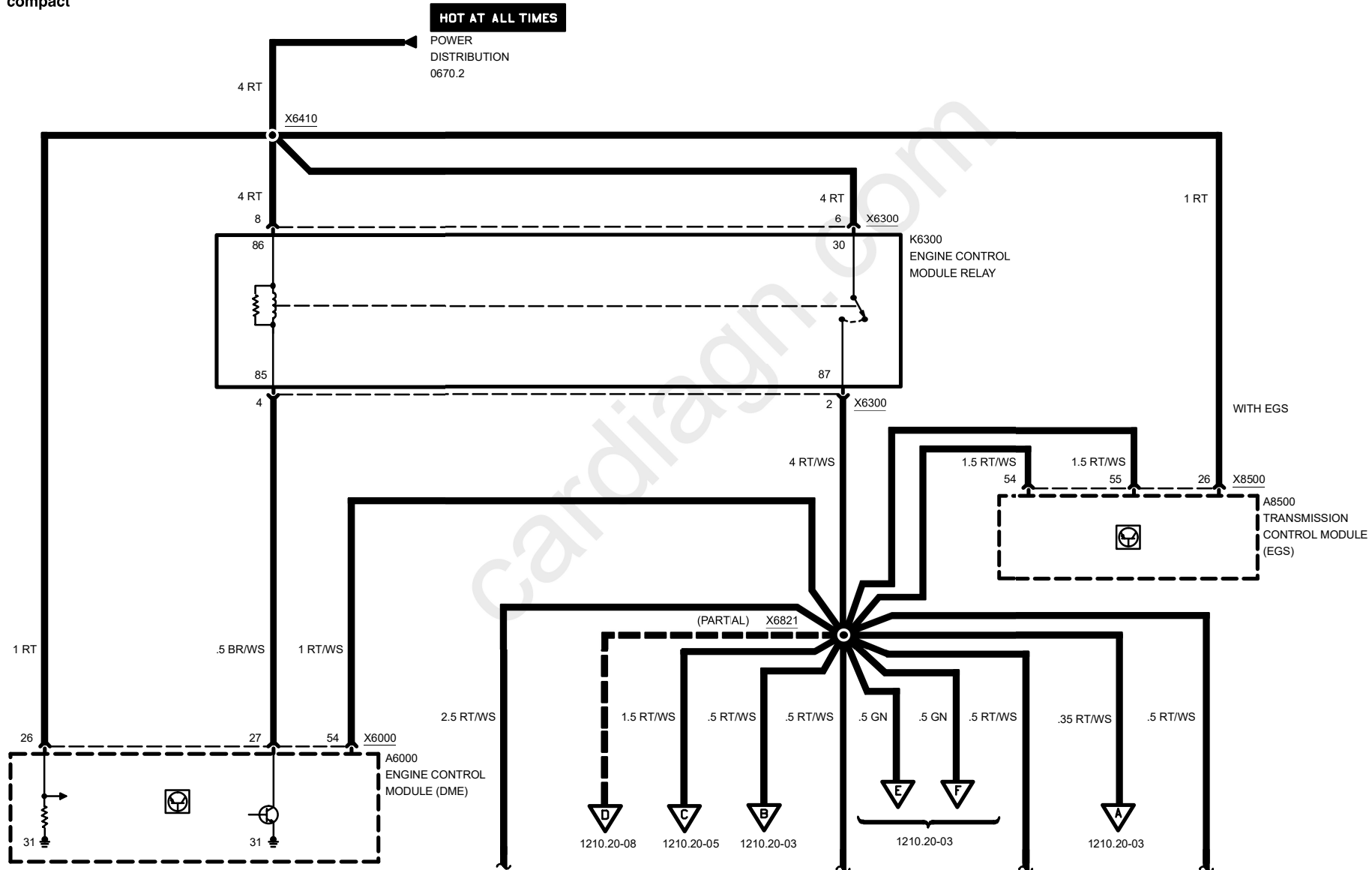
Pin	Type	Description/Function	Connection
58	A	Activate valve	Intake air resonance changeover valve
59		Not used	
60	E	Programming voltage	Data link connector
61	A	Activate valve	Evaporation emission valve
62		Not used	
63	A	Activate relay	Fuel pump relay
64	A	Activate relay/valve	Secondary air pump relay/Secondary air pump valve
65	A	Activate valve	Carbon canister valve
66	A	Activate valve	Fuel changeover valve
67		Not used	
68	E	Signal above 80°C	Double temperature switch
69	E	A/C-ON-signal	Air conditioning operating unit
70	E	Cyl 1-2 knock sensor	Knock sensor
71	M	Ground for sensors	Temperature-/ knock-/ throttle position-sensors
72	E	Fuel tank pressure signal	Fuel tank pressure sensor
73		Not used	
74	E	Temperature signal	Engine coolant temperature sensor
75		Not used	
76		Not used	
77	E	Oxygen sensor signal	Oxygen sensor (behind catalytic converter)
78	E	Crankshaft position/RPM	Crankshaft position/RPM sensor
79	E	Speed signal right rear	ABS/ASC control module
80	E	Crankshaft RPM speed signal TD	Instrument cluster
81		Not used	
82		Not used	
83	E	Vehicle speed signal	On-board computer
84		Not used	
85	E/A	CAN-LOW	EGS/ASC control module
86	E/A	CAN-HIGH	EGS/ASC control module
87	A	RxD diagnosis data line	Data link connector
88	E/A	TxD diagnosis data line	Data link connector

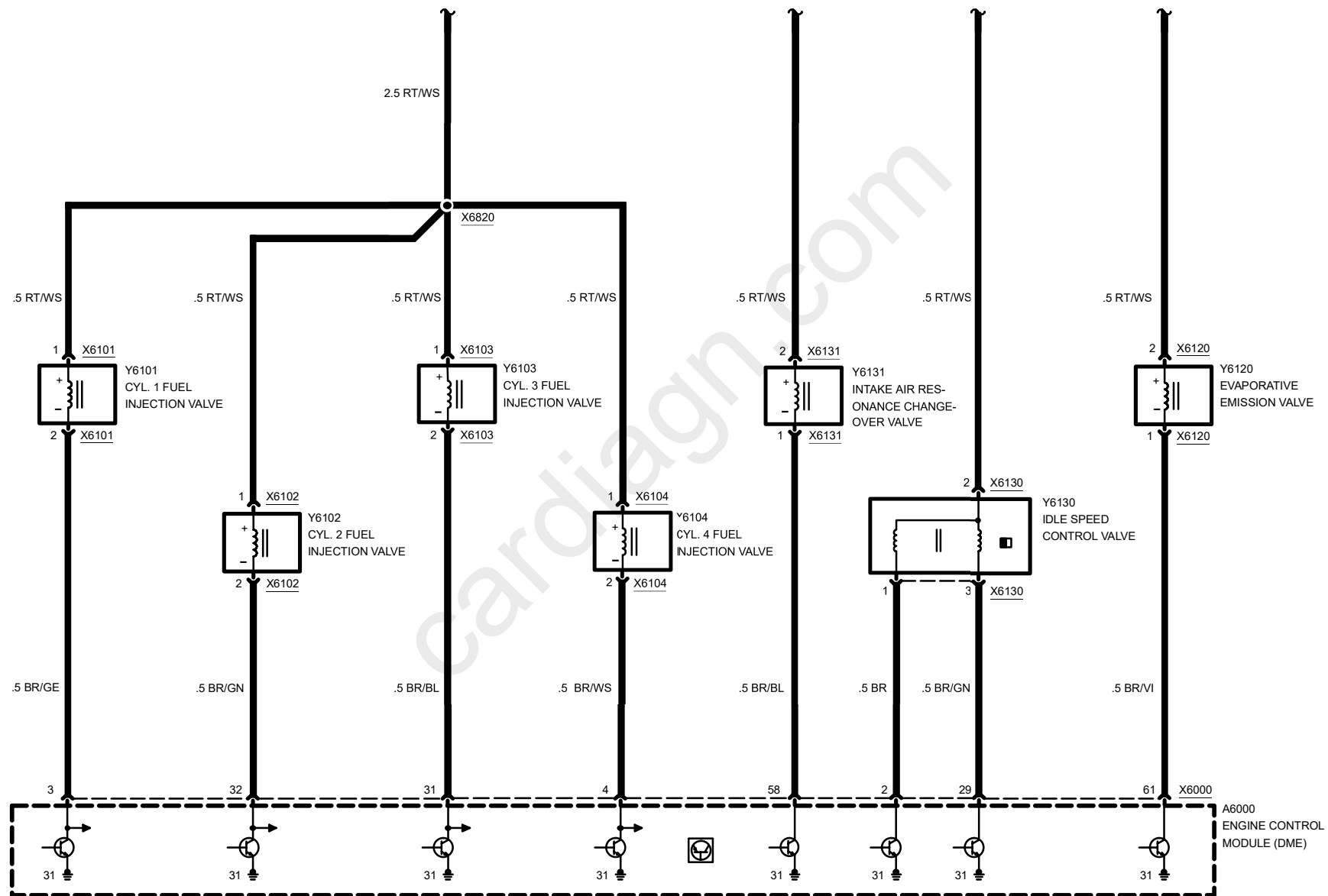
E = Input, A = Output, M = Ground



ENGINE CONTROL SYSTEM (DME M5.2, 4-CYLINDER M44)

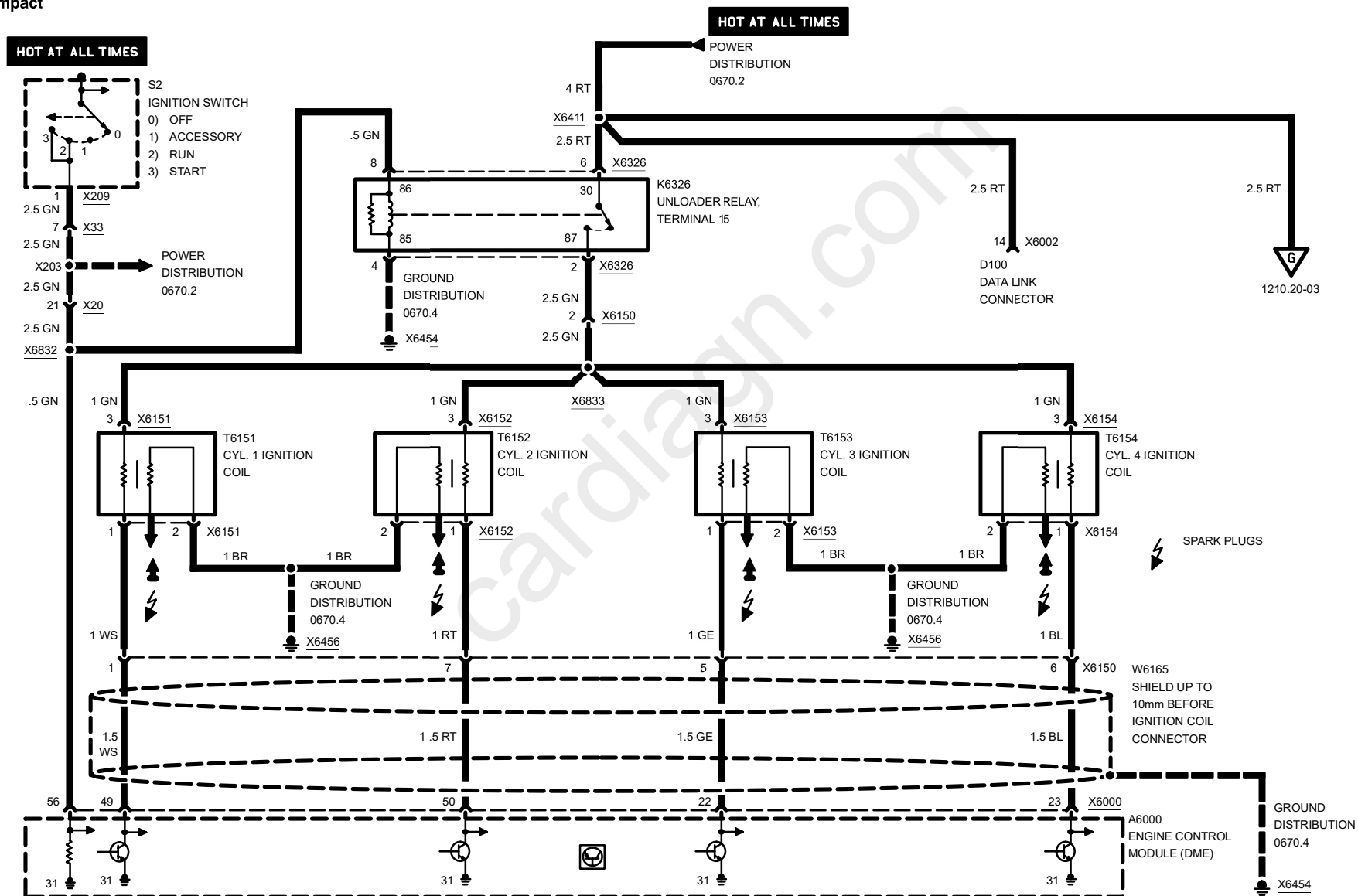
POWER, FUEL INJECTION VALVES





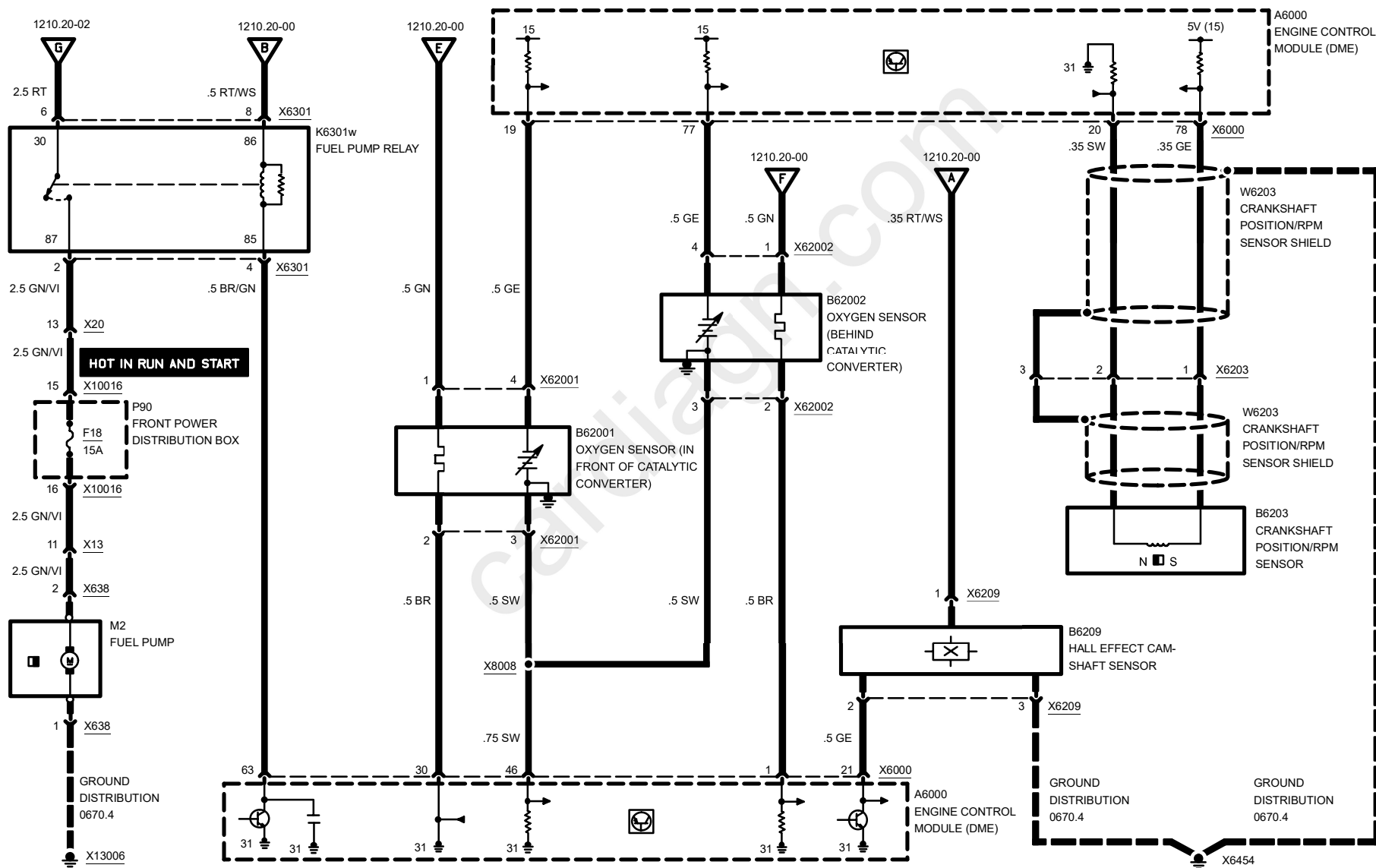
ENGINE CONTROL SYSTEM (DME M5.2, 4-CYLINDER M44)

IGNITION COILS

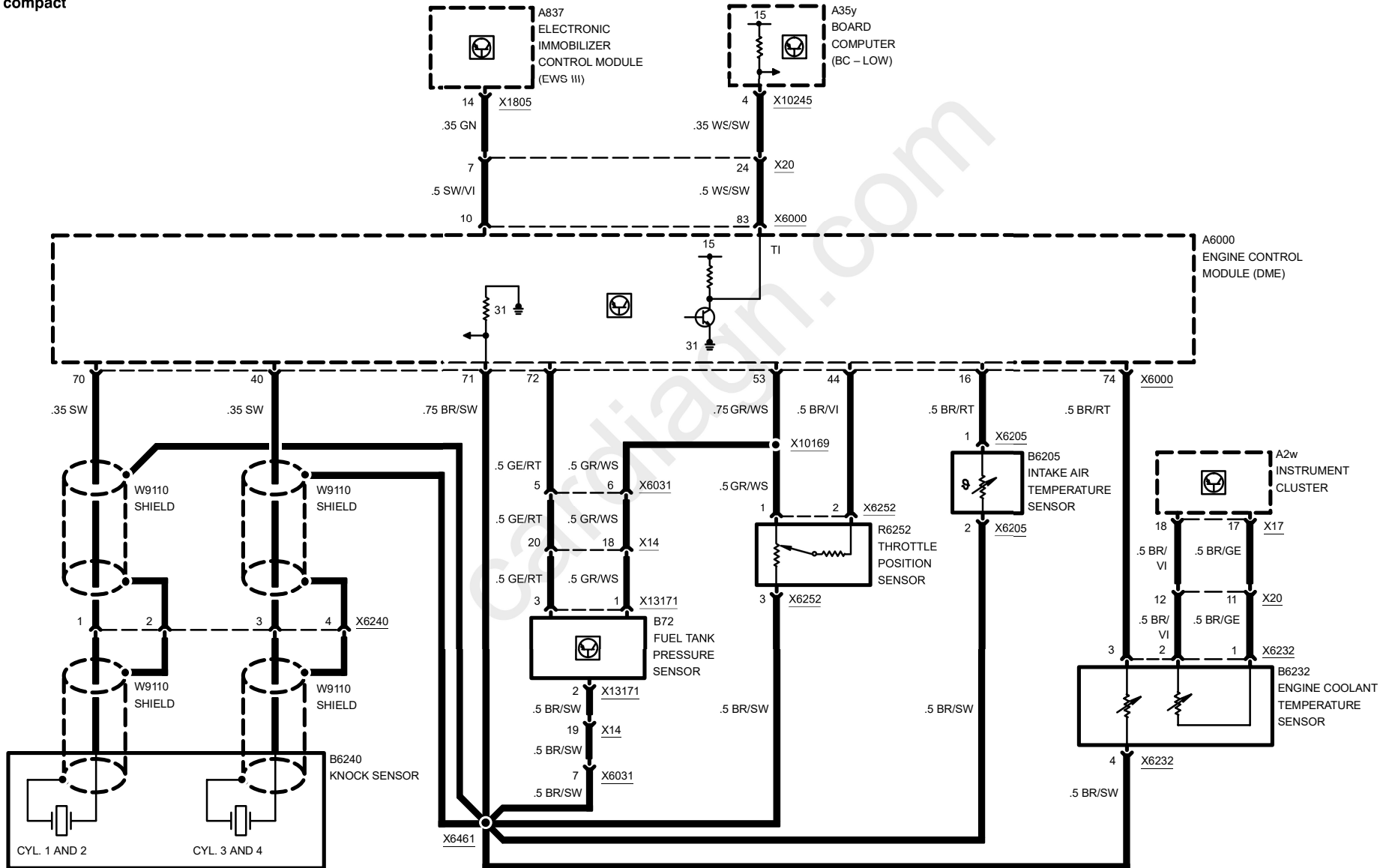


ENGINE CONTROL SYSTEM (DME M5.2, 4-CYLINDER M44)

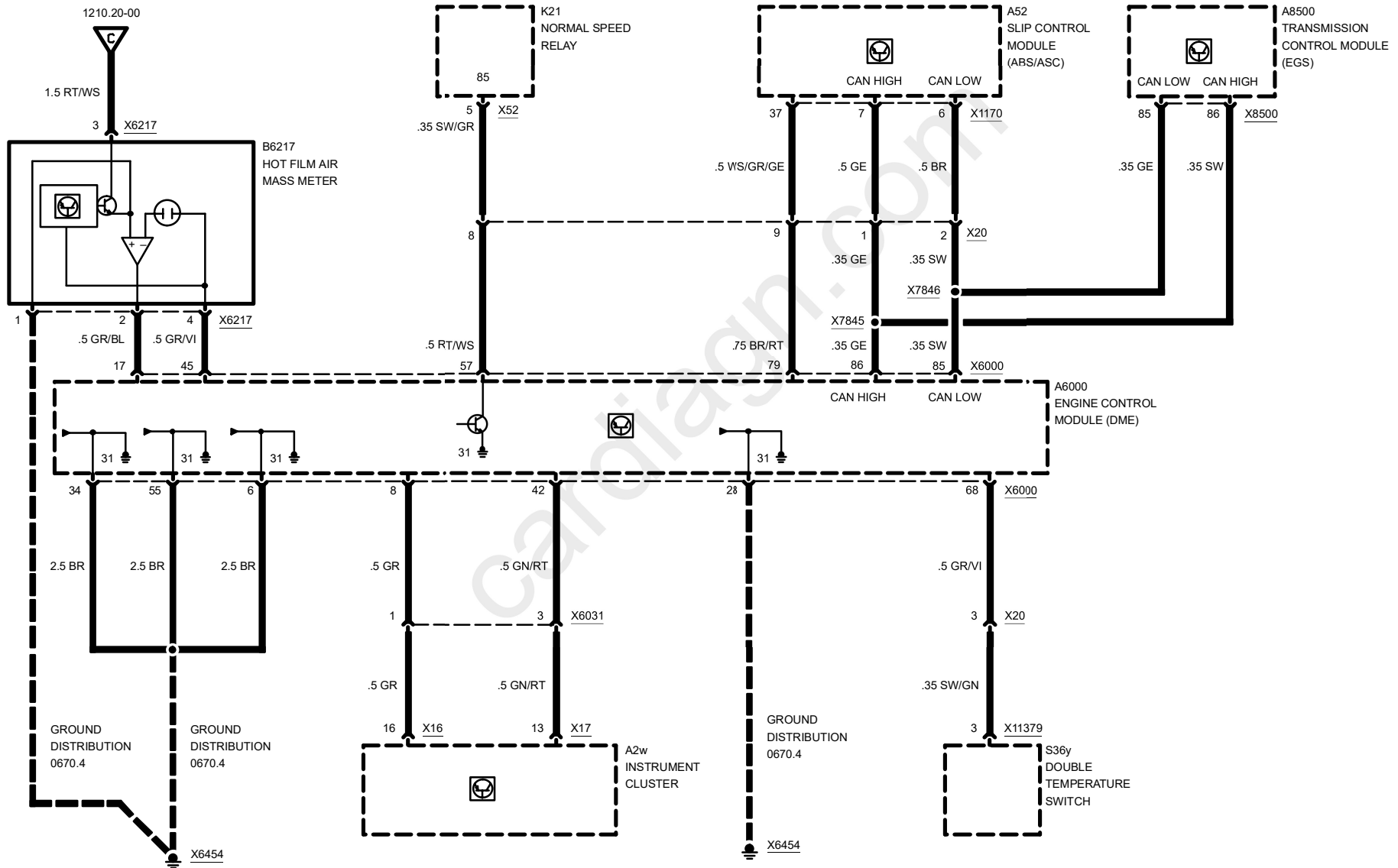
FUEL PUMP, HEATED OXYGEN SENSOR, CRANKSHAFT SENSORS



ENGINE CONTROL SYSTEM (DME M5.2, 4-CYLINDER M44)

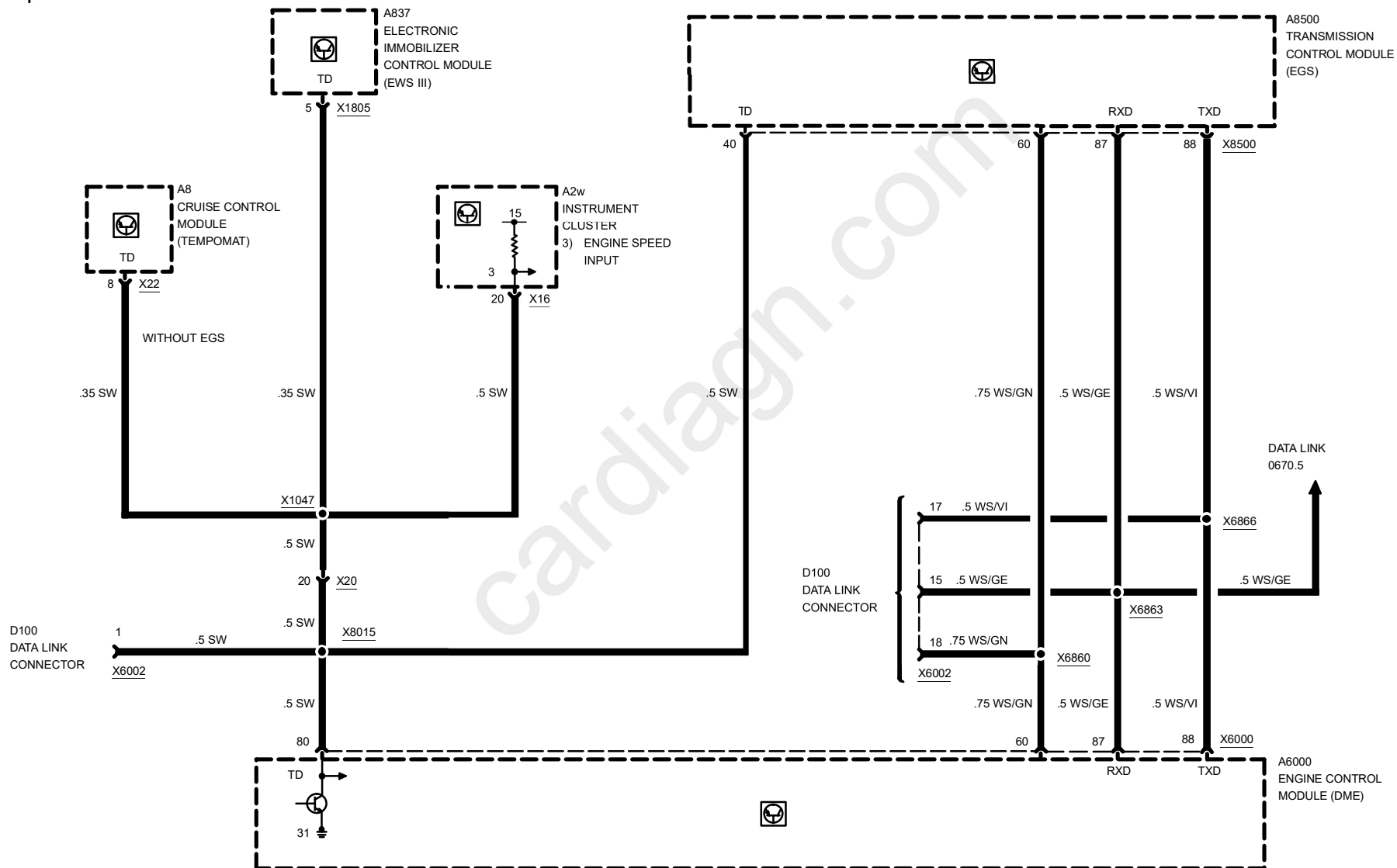


ENGINE CONTROL SYSTEM (DME M5.2, 4-CYLINDER M44)



ENGINE CONTROL SYSTEM (DME M5.2, 4-CYLINDER M44)

DATA LINK

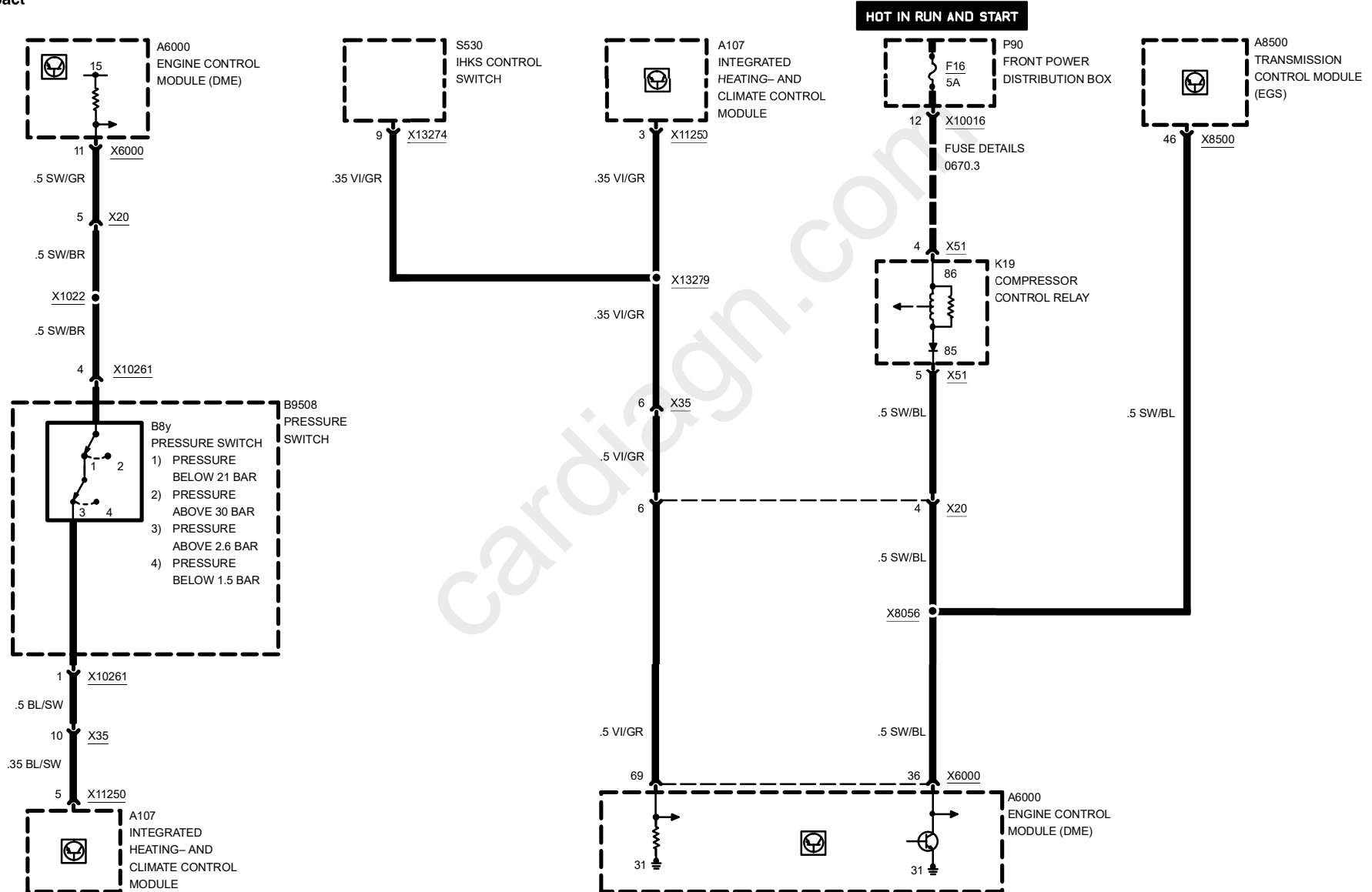


ENGINE CONTROL SYSTEM (DME M5.2, 4-CYLINDER M44)

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ENGINE CONTROL SYSTEM (DME M5.2, 4-CYLINDER M44)

