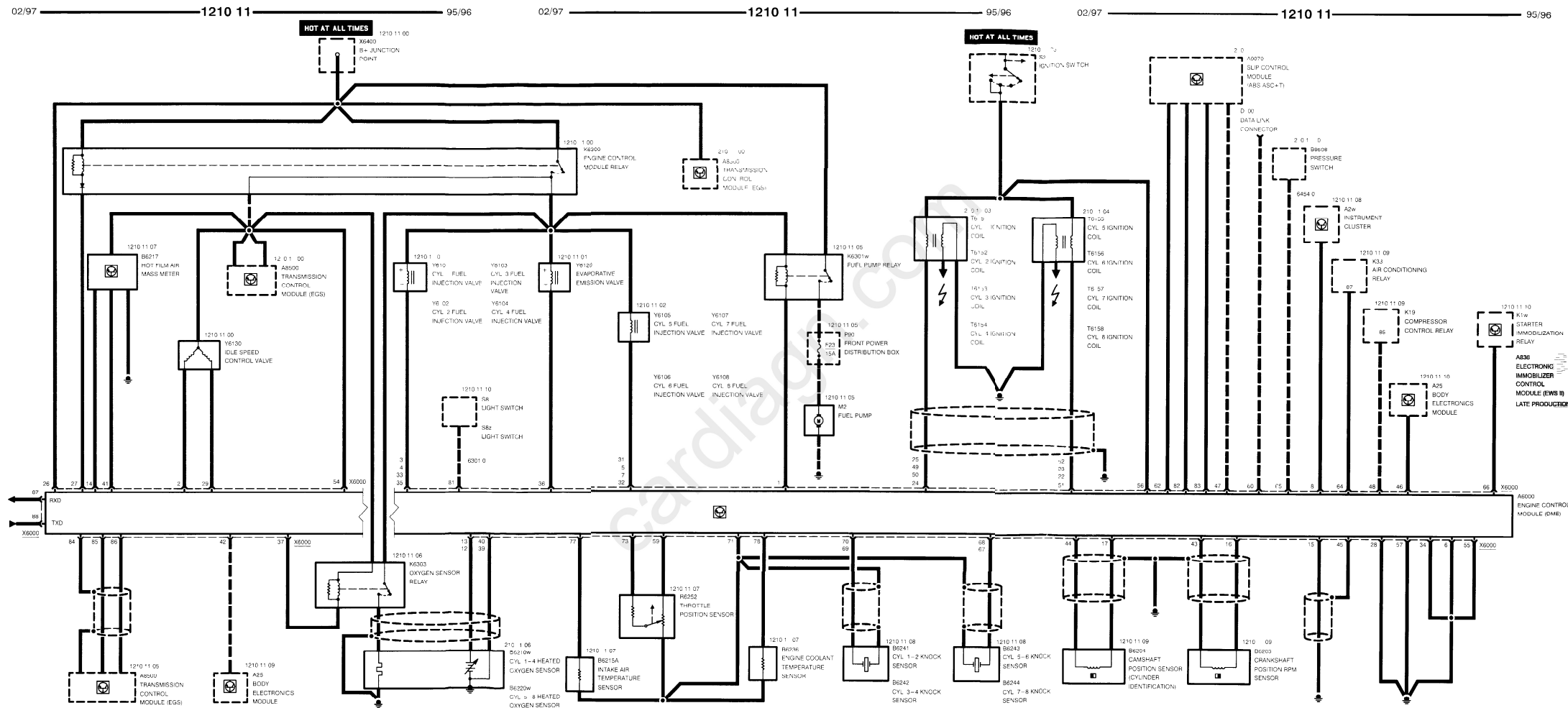
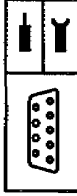




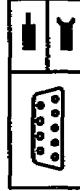


## Pin Assignments

### X6000

| Pin | Type | Description/Function                   | Connection                             |
|-----|------|----------------------------------------|----------------------------------------|
| 1   | A    | Fuel pump relay                        | Fuel pump relay                        |
| 2   | A    | Air control valve closed               | Idle speed control valve, Y6130        |
| 3   | A    | Cyl. 1 fuel injection valve            | Cyl. 1 fuel injection valve, Y6101     |
| 4   | A    | Cyl. 4 fuel injection valve            | Cyl. 4 fuel injection valve, Y6104     |
| 5   | A    | Cyl. 6 fuel injection valve            | Cyl. 6 fuel injection valve, Y6106     |
| 6   | M    | Ground                                 | Ground point, X6452                    |
| 7   | A    | Cyl. 7 fuel injection valve            | Cyl. 7 fuel injection valve, Y6107     |
| 8   | A    | "CHECK ENGINE" lamp                    | Instrument cluster, A2                 |
| 9   |      | Not used                               |                                        |
| 10  |      | Not used                               |                                        |
| 11  |      | Not used                               |                                        |
| 12  | E    | Signal Cyl. 5 - 8 heated oxygen sensor | Cyl. 5 - 8 heated oxygen sensor, B6220 |
| 13  | E    | Signal Cyl. 1 - 4 heated oxygen sensor | Cyl. 1 - 4 heated oxygen sensor, B6210 |
| 14  | M    | Ground from air mass meter             | Hot film air mass meter                |
| 15  | M    | Injection signal                       | Resistor, R6240                        |
| 16  | E    | Signal crankshaft/RPM                  | Crankshaft position/RPM sensor, B6203  |
| 17  | E    | Signal camshaft position               | Camshaft position sensor               |
| 18  |      | Not used                               |                                        |
| 19  |      | Not used                               |                                        |
| 20  |      | Not used                               |                                        |
| 21  |      | Not used                               |                                        |
| 22  | A    | Cyl. 7 ignition signal                 | Cyl. 7 ignition coil, T6157            |
| 23  | A    | Cyl. 6 ignition signal                 | Cyl. 6 ignition coil, T6156            |
| 24  | A    | Cyl. 4 ignition signal                 | Cyl. 4 ignition coil, T6154            |
| 25  | A    | Cyl. 1 ignition signal                 | Cyl. 1 ignition coil, T6151            |
| 26  | E    | Continuous plus supply terminal 30     | B + junction box                       |
| 27  | A    | Signal to engine control module relay  | Engine control module relay, K6300     |
| 28  | M    | Ground                                 | Ground point, X6452                    |
| 29  | A    | Air control valve open                 | Idle speed control valve, Y6130        |
| 30  |      | Not used                               |                                        |

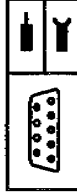
E = Input, A = Output, M = Ground



## Pin Assignments

| Pin | Type | Description/Function               | Connection                             |
|-----|------|------------------------------------|----------------------------------------|
| 31  | A    | Cyl. 5 fuel injection valve        | Cyl. 5 fuel injection valve, Y6105     |
| 32  | A    | Cyl. 8 fuel injection valve        | Cyl. 8 fuel injection valve, Y6108     |
| 33  | A    | Cyl. 3 fuel injection valve        | Cyl. 3 fuel injection valve, Y6103     |
| 34  | M    | Ground                             | Ground point, X6452                    |
| 35  | A    | Cyl. 2 fuel injection valve        | Cyl. 2 fuel injection valve, Y6102     |
| 36  | A    | Signal evaporative emission        | Evaporative emission valve, Y6120      |
| 37  | A    | Signal oxygen sensor heating       | Oxygen sensor relay, K6303             |
| 38  |      | Not used                           |                                        |
| 39  | M    | Ground Cyl. 5 - 8 oxygen sensor    | Cyl. 5 - 8 heated oxygen sensor, B6220 |
| 40  | M    | Ground Cyl. 1 - 4 oxygen sensor    | Cyl. 1 - 4 heated oxygen sensor, B6210 |
| 41  | E    | Signal air flow                    | Hot film air mass meter                |
| 42  | E    | Vehicle speed                      | Body electronics module                |
| 43  | M    | Ground, camshaft RPM sensor        | Crankshaft position/RPM sensor, B6203  |
| 44  | M    | Ground, crankshaft position sensor | Camshaft position sensor               |
| 45  | M    | Ground, ignition signal shield     | Shield, ignition signal, R6240         |
| 46  | A    | Signal fuel consumption            | Instrument cluster, A2                 |
| 47  | A    | Signal engine speed (RPM)          | Instrument cluster, A2                 |
| 48  | A    | Signal climate compressor          | Compressor control relay, K19          |
| 49  | A    | Cyl. 2 ignition signal             | Cyl. 2 ignition coil, T6152            |
| 50  | A    | Cyl. 3 ignition signal             | Cyl. 3 ignition coil, T6153            |
| 51  | A    | Cyl. 8 ignition signal             | Cyl. 8 ignition coil, T6158            |
| 52  | A    | Cyl. 5 ignition signal             | Cyl. 5 ignition coil, T6155            |
| 53  |      | Not used                           |                                        |
| 54  | E    | Signal engine control module relay | Engine control module relay, K6300     |
| 55  | M    | Ground                             | Ground point, X6452                    |
| 56  | E    | Plus supply terminal 15            | Ignition switch, S2                    |
| 57  | M    | Ground for sensors and shields     | Ground point                           |
| 58  |      | Not used                           |                                        |
| 59  | A    | Plus supply (+5V)                  | Throttle position sensor, R6252        |
| 60  | E    | Programming voltage                | Data link connector, D100              |
| 61  |      | Not used                           |                                        |
| 62  | E    | Signal electronic throttle control | Slip control module (ABS/ASC+T), A9070 |

E = Input, A = Output, M = Ground



## Pin Assignments

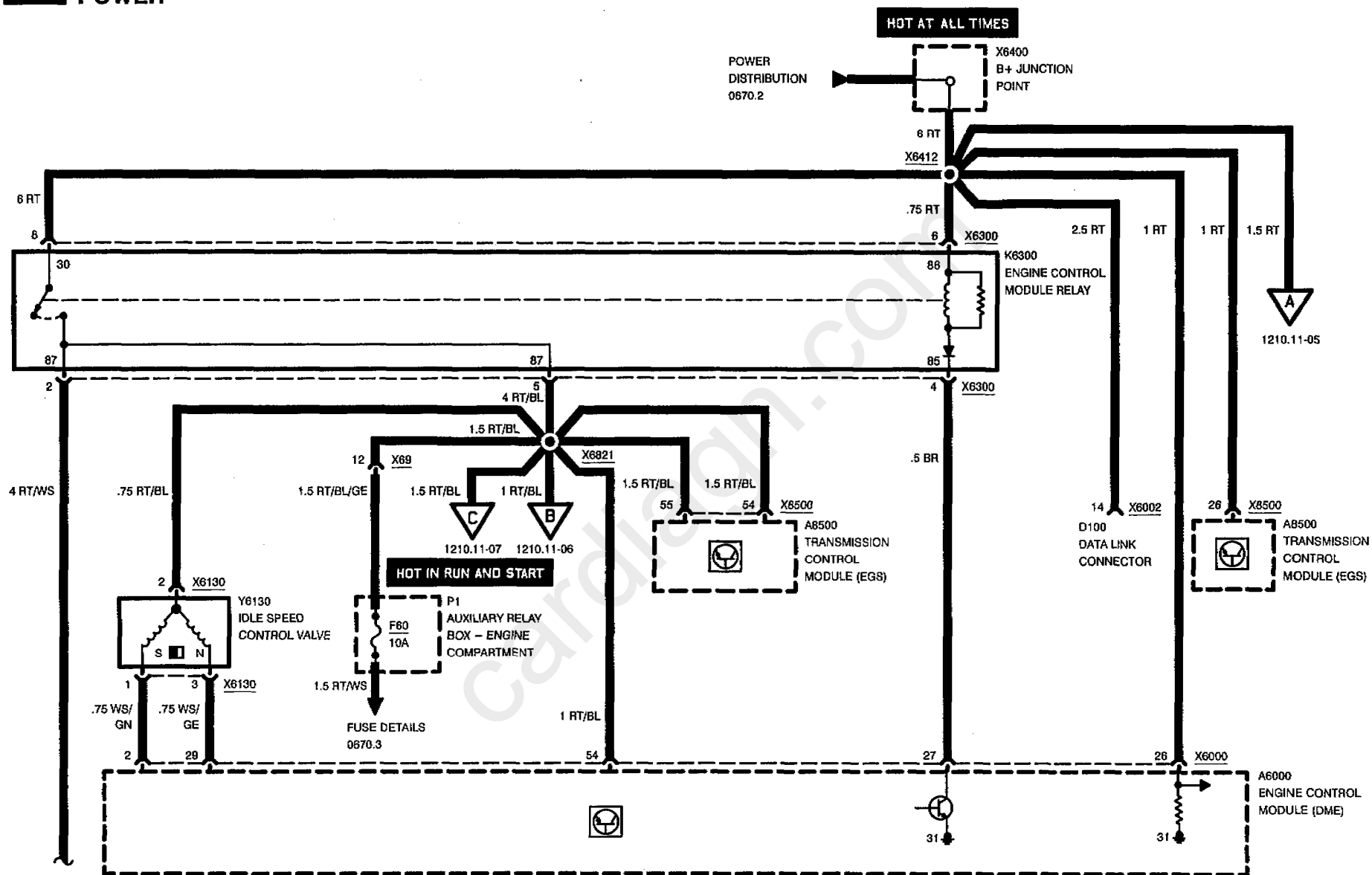
| Pin | Type | Description/Function               | Connection                                                                                              |
|-----|------|------------------------------------|---------------------------------------------------------------------------------------------------------|
| 63  |      | Not used                           |                                                                                                         |
| 64  | E    | Signal AC ready                    | Air conditioning relay                                                                                  |
| 65  | E    | Signal AC-compressor               | Pressure switch, B8y                                                                                    |
| 66  | E    | Antitheft signal                   | Starter immobilization relay<br>(early production)<br>Electronic immobilizer control module<br>(EWS II) |
| 67  | E    | Signal, Cyl. 7 - 8 knock sensor    | Cyl. 7 - 8 knock sensor, B6244                                                                          |
| 68  | E    | Signal, Cyl. 5 - 6 knock sensor    | Cyl. 5 - 6 knock sensor, B6243                                                                          |
| 69  | E    | Signal, Cyl. 3 - 4 knock sensor    | Cyl. 3 - 4 knock sensor, B6242                                                                          |
| 70  | E    | Signal, Cyl. 1 - 2 knock sensor    | Cyl. 1 - 2 knock sensor, B6241                                                                          |
| 71  | M    | Ground                             | Sensors                                                                                                 |
| 72  |      | Not used                           |                                                                                                         |
| 73  | E    | Signal throttle position sensor    | Throttle position sensor, R6252                                                                         |
| 74  |      | Not used                           |                                                                                                         |
| 75  |      | Not used                           |                                                                                                         |
| 76  |      | Not used                           |                                                                                                         |
| 77  | E    | Signal intake air temperature      | Engine intake air temperature sensor,<br>B6215                                                          |
| 78  | E    | Signal engine coolant temperature  | Engine coolant temperature sensor                                                                       |
| 79  |      | Not used                           |                                                                                                         |
| 80  |      | Not used                           |                                                                                                         |
| 81  | E    | Signal headlights on               | Light switch                                                                                            |
| 82  | E    | Engine coasting signal             | Slip control module (ABS/ASC+T), A9070                                                                  |
| 83  | E    | Traction control regulation signal | Slip control module (ABS/ASC+T), A9070                                                                  |
| 84  | A    | CAN - Shield                       | Transmission control module A8500                                                                       |
| 85  | E/A  | CAN - L                            | Transmission control module, A8500                                                                      |
| 86  | E/A  | CAN - H                            | Transmission control module, A8500                                                                      |
| 87  | A    | Diagnosis                          | Data link connector, Rx/D                                                                               |
| 88  | E/A  | Diagnosis                          | Data link connector, Tx/D                                                                               |

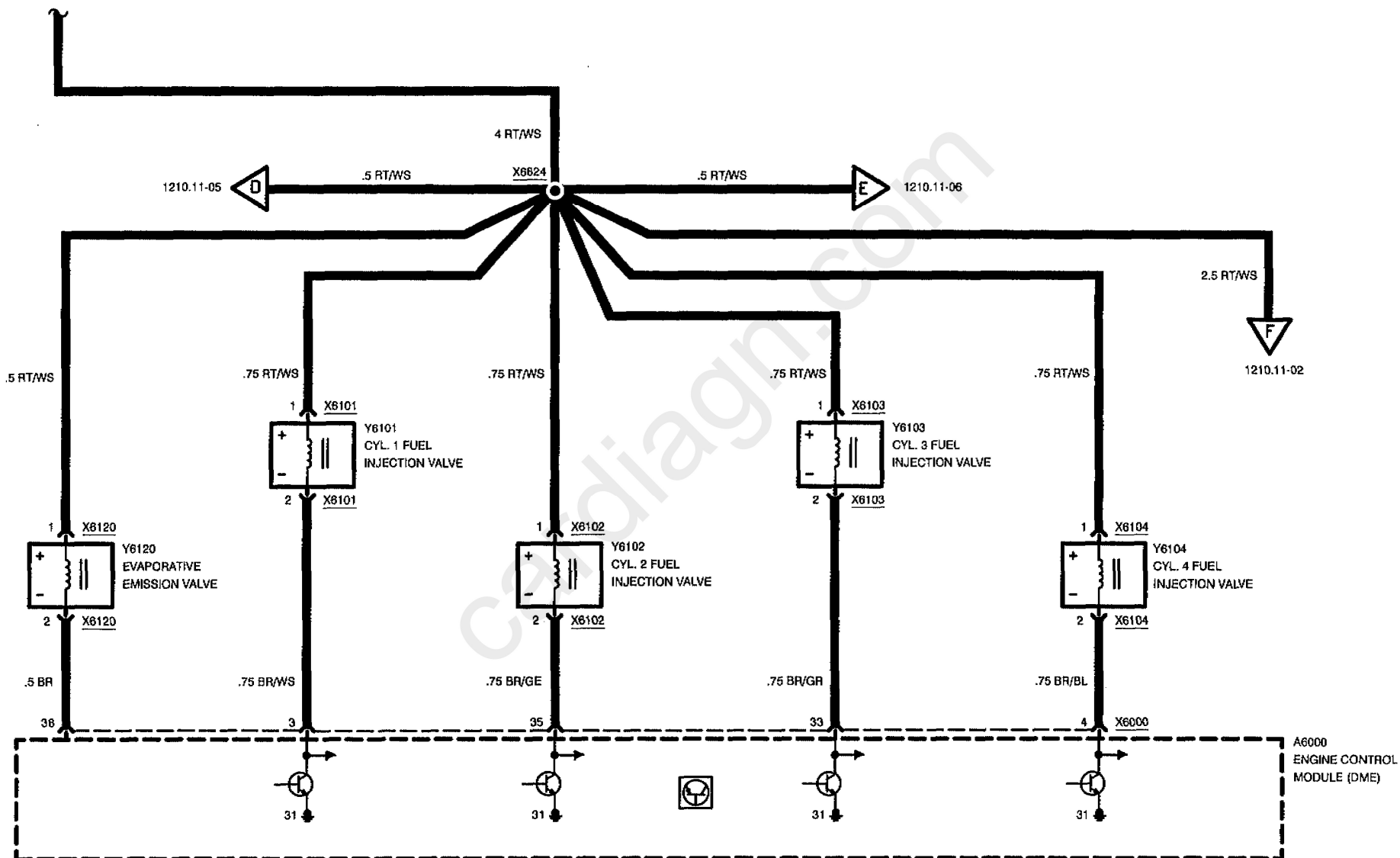
E = Input, A = Output, M = Ground

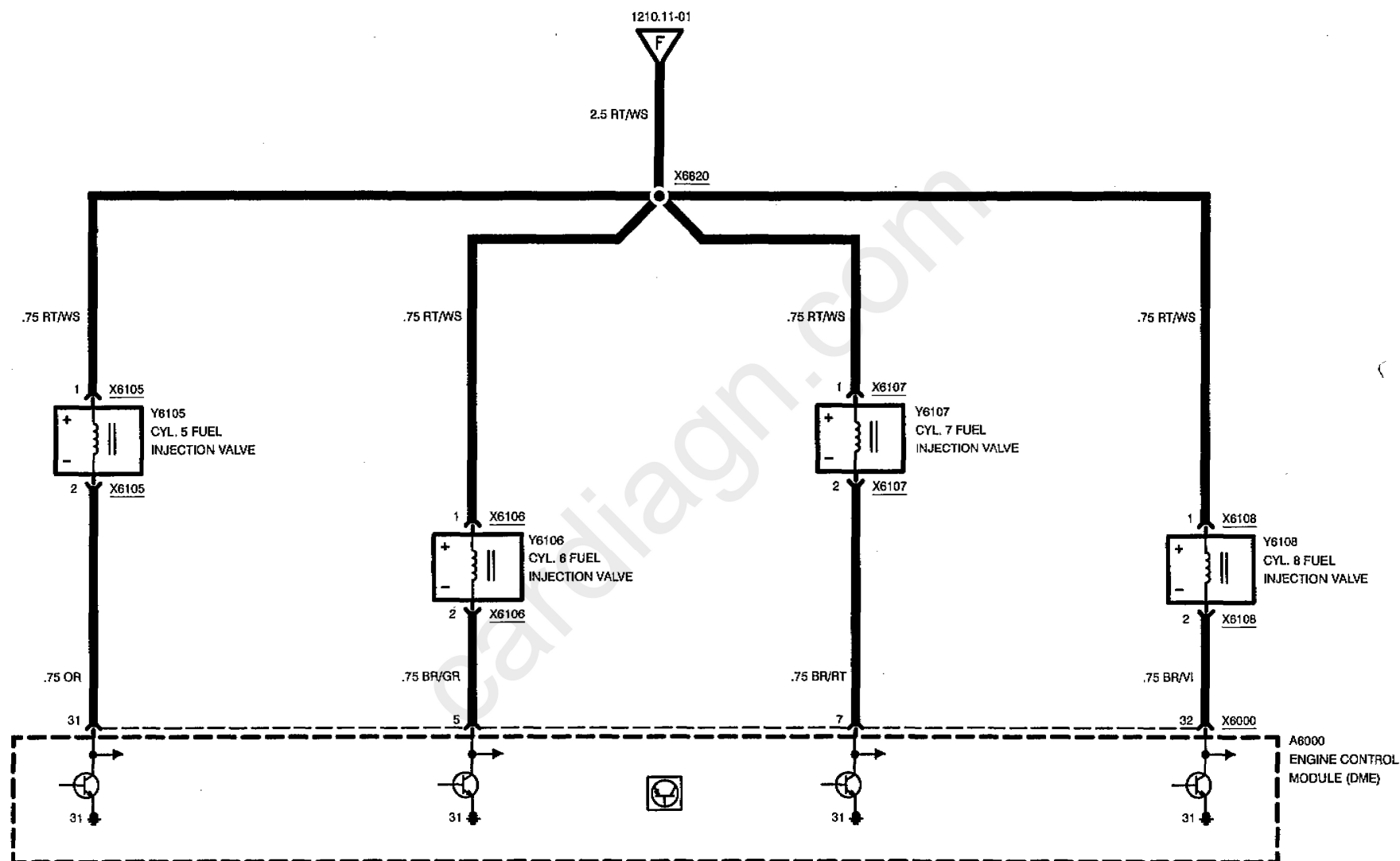


# ENGINE CONTROL SYSTEM (DME M3.3, 8-CYLINDER M60)

## POWER



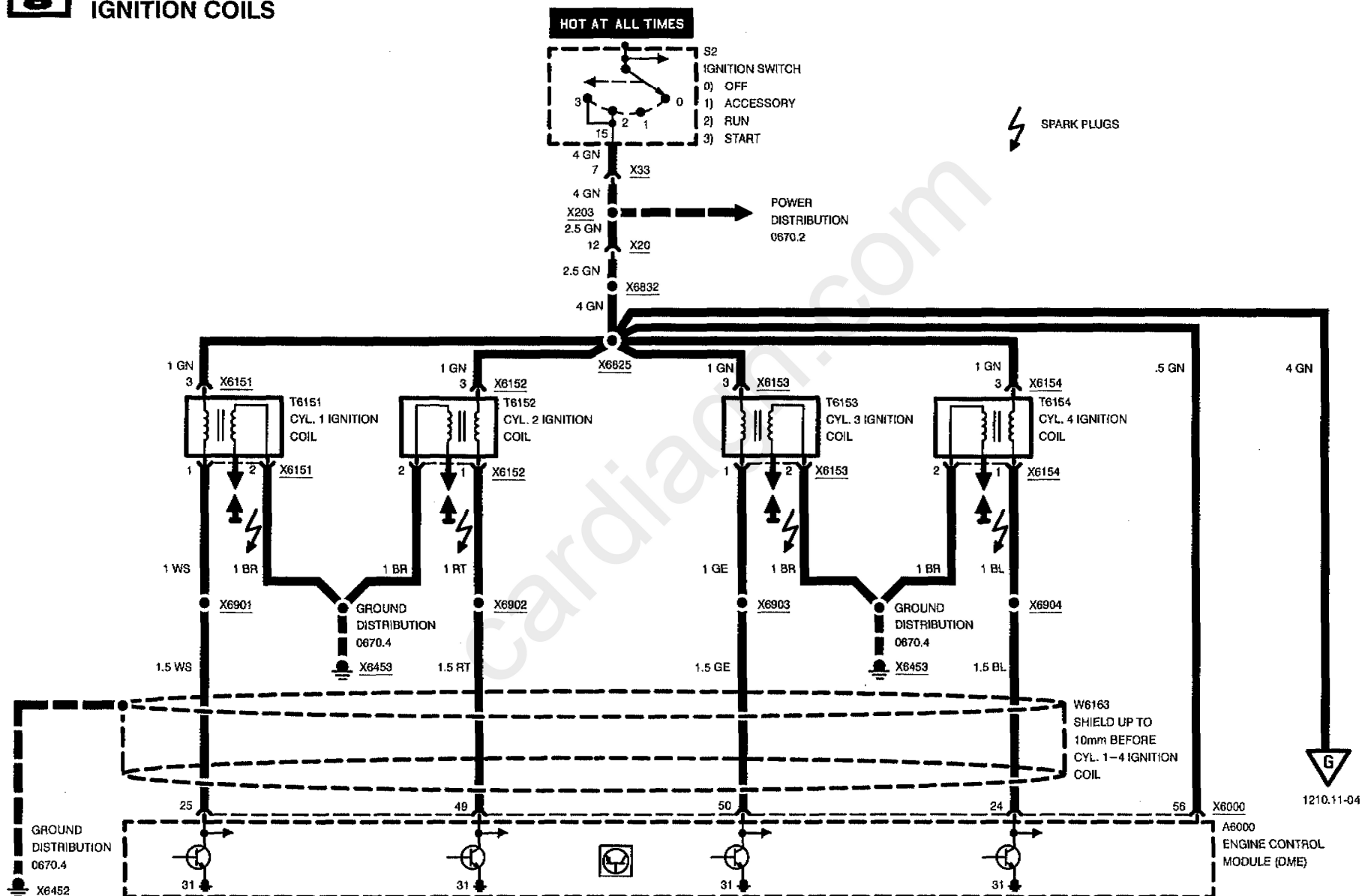






# ENGINE CONTROL SYSTEM (DME M3.3, 8-CYLINDER M60)

## IGNITION COILS



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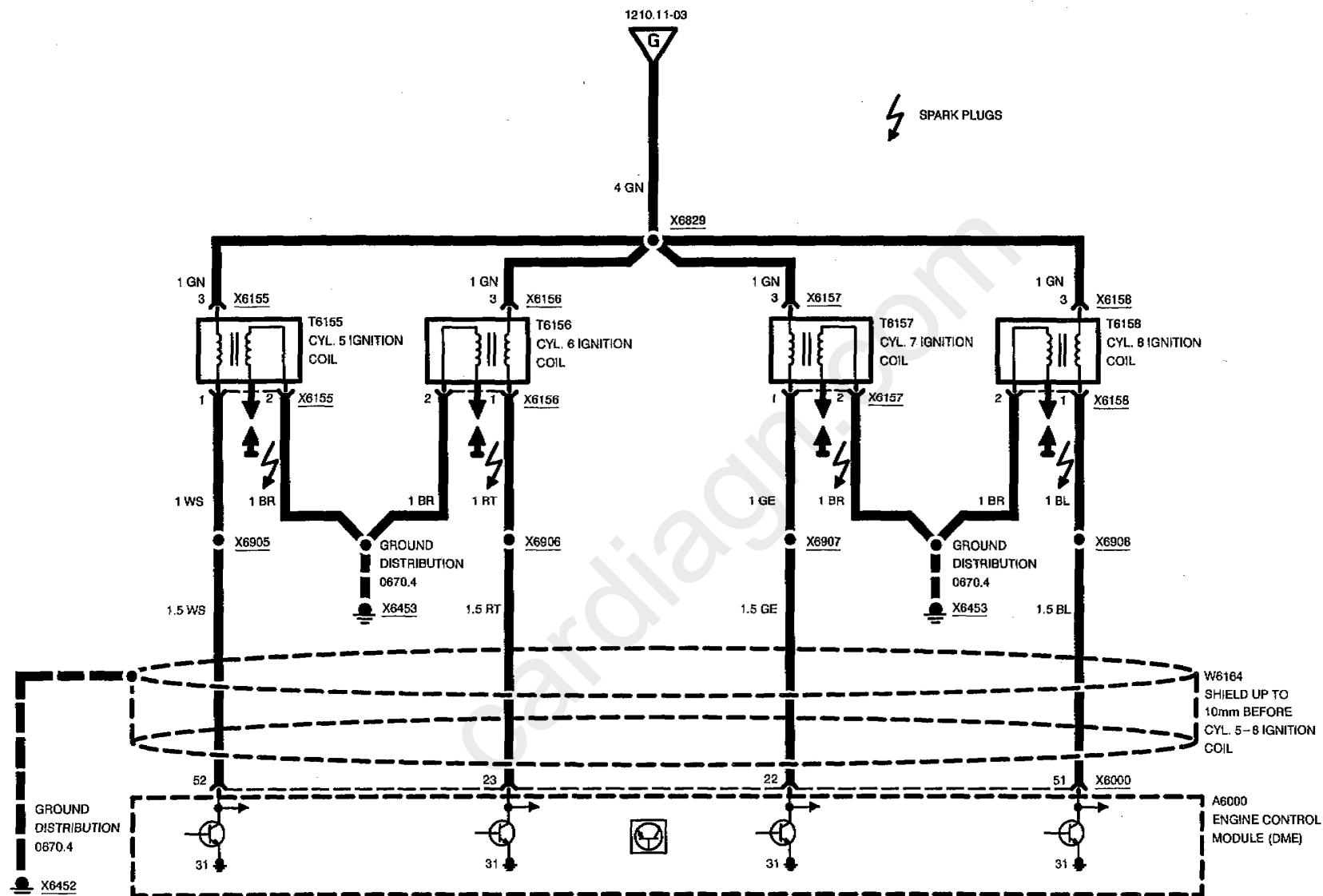
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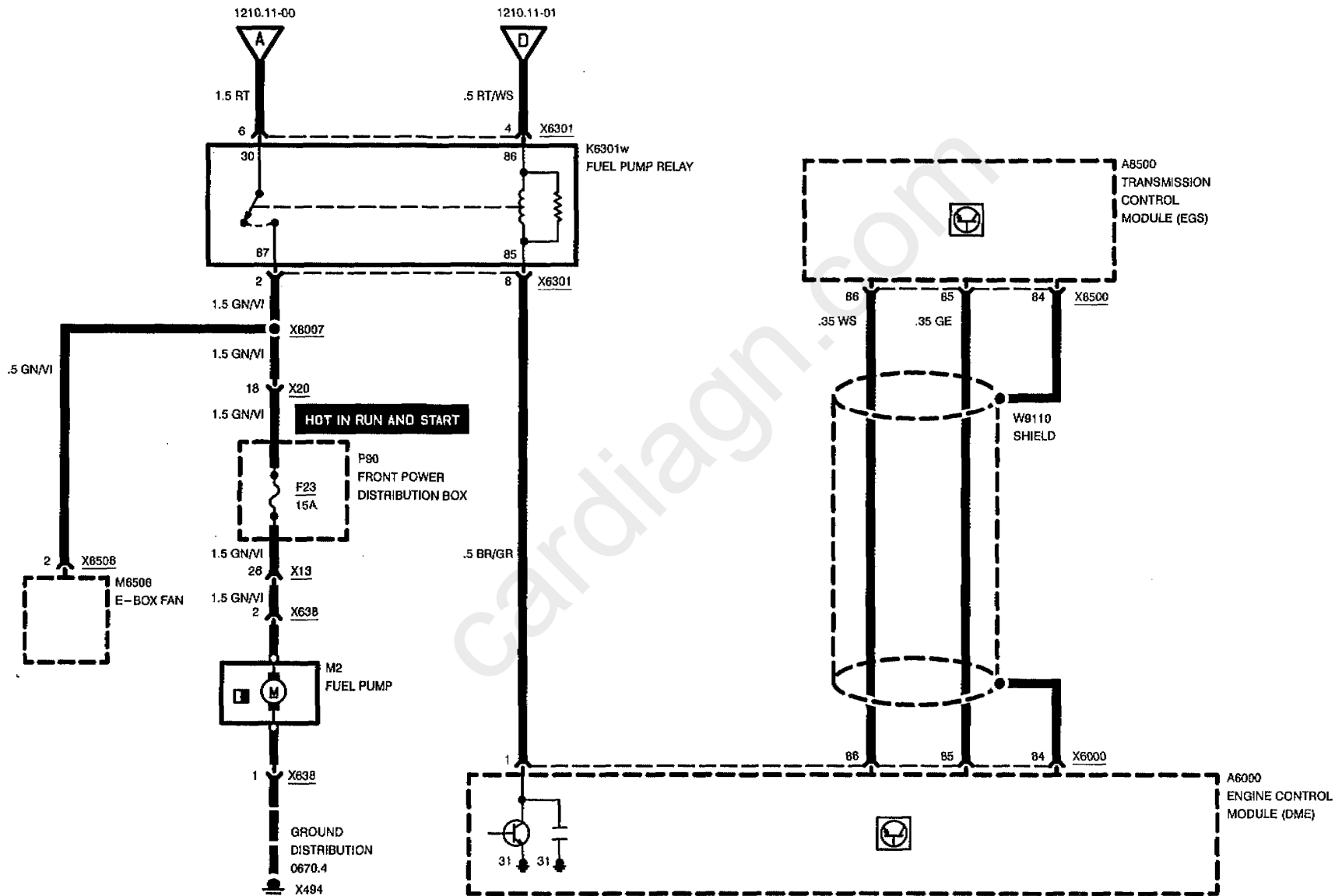
# ENGINE CONTROL SYSTEM (DME M3.3, 8-CYLINDER M60)

## IGNITION COILS





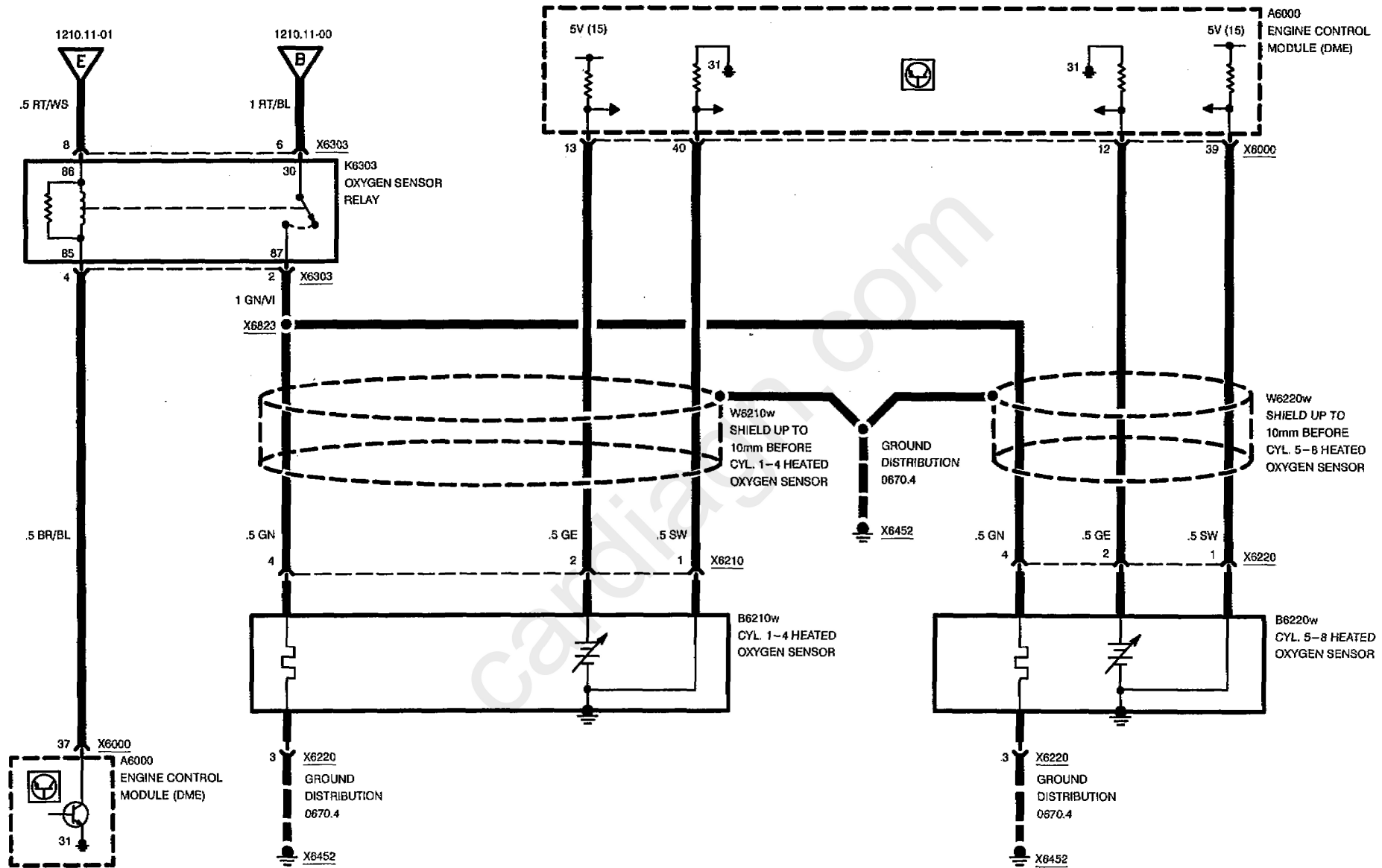
# ENGINE CONTROL SYSTEM (DME M3.3, 8-CYLINDER M60)





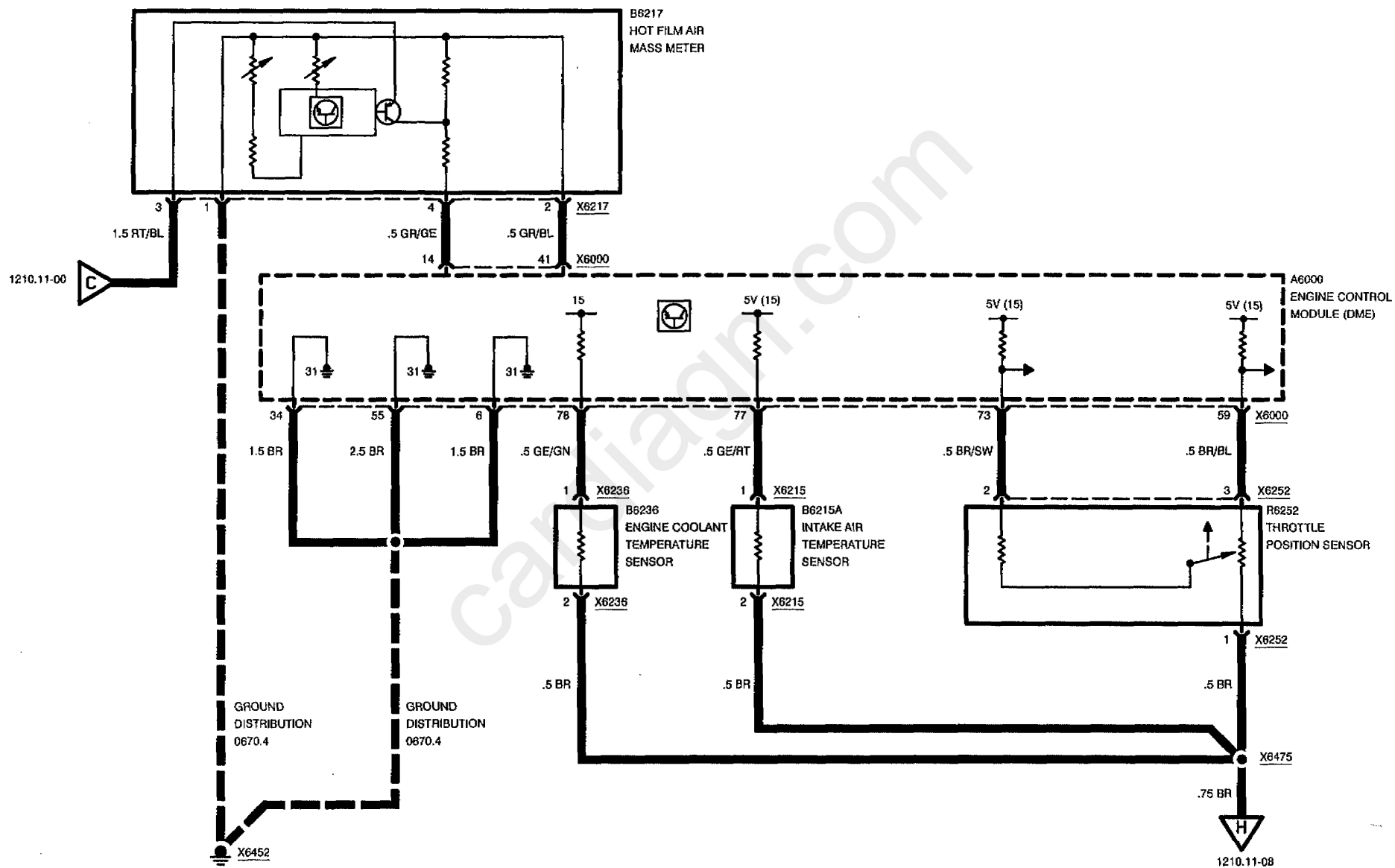
# ENGINE CONTROL SYSTEM (DME M3.3, 8-CYLINDER M60)

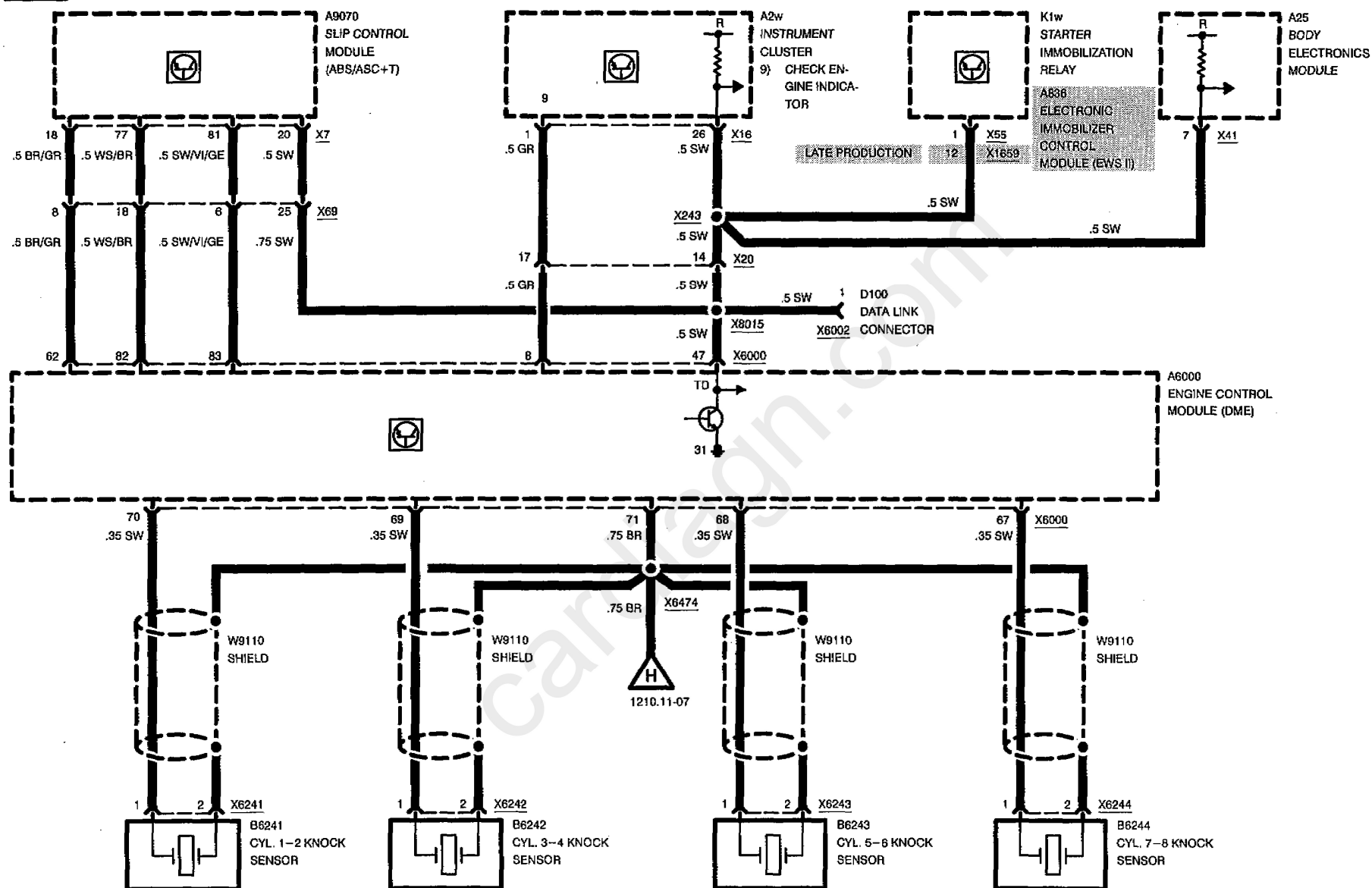
## OXYGEN SENSORS



## ENGINE CONTROL SYSTEM (DME M3.3, 8-CYLINDER M60)

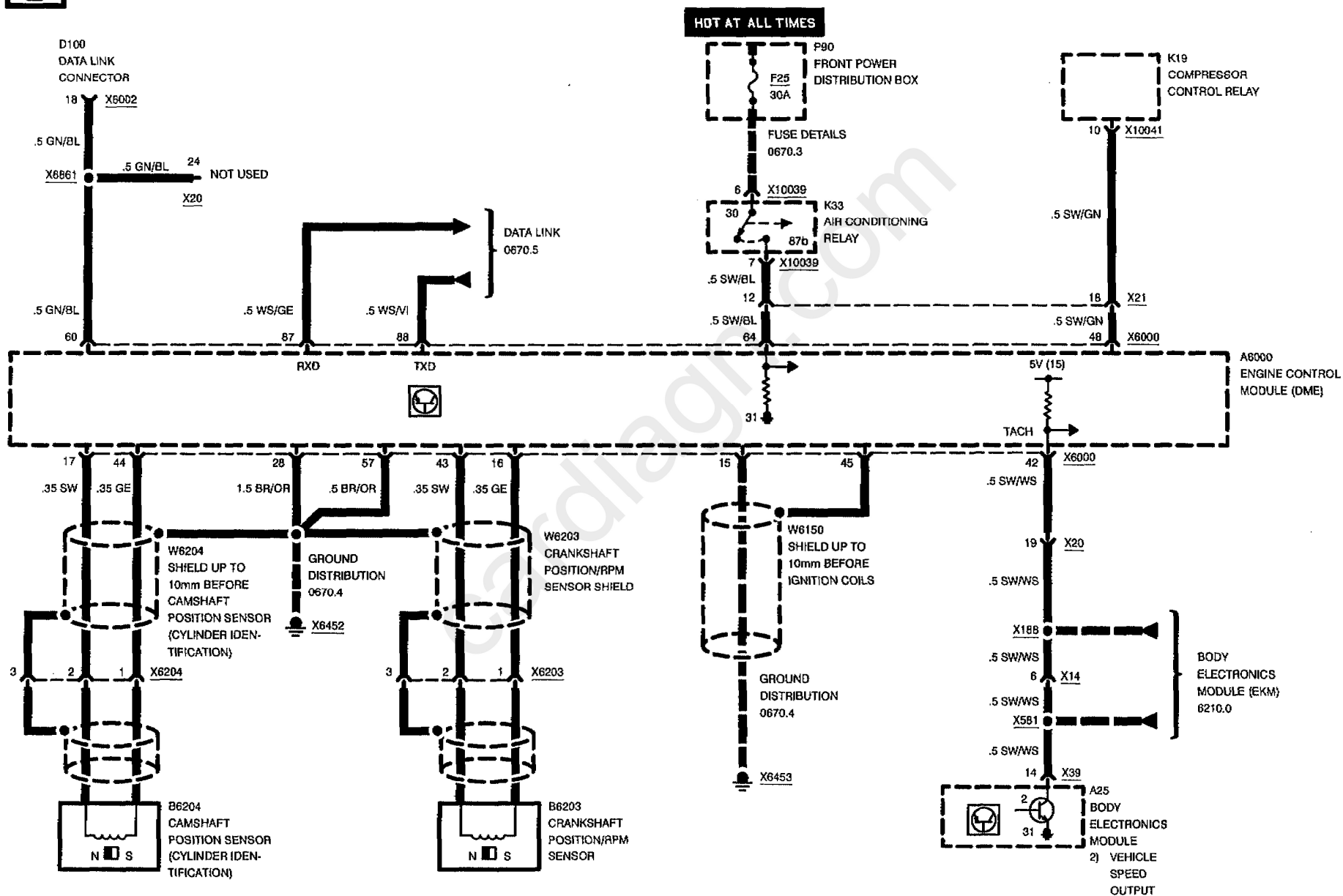
## SENSORS







# ENGINE CONTROL SYSTEM (DME M3.3, 8-CYLINDER M60)



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# ENGINE CONTROL SYSTEM (DME M3.3, 8-CYLINDER M60)

