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# F-150



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## **2003 Ford F-150 Truck Wiring Diagrams**

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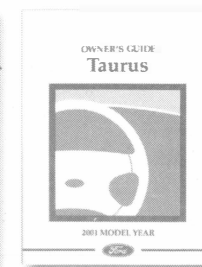
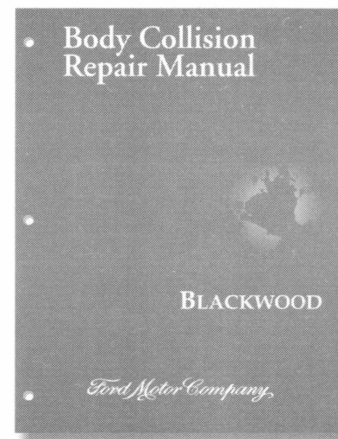
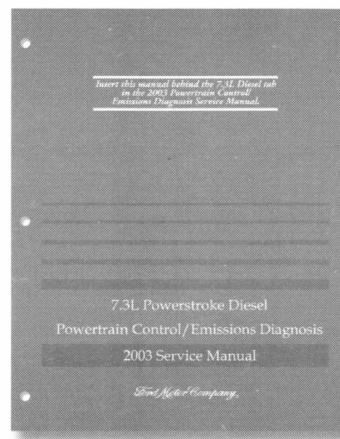
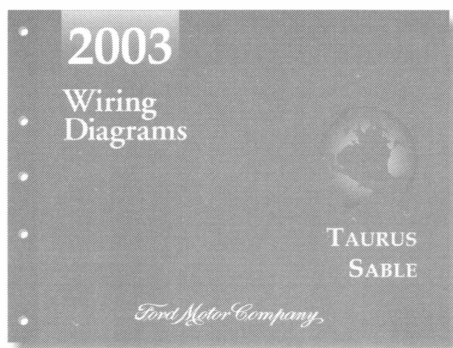
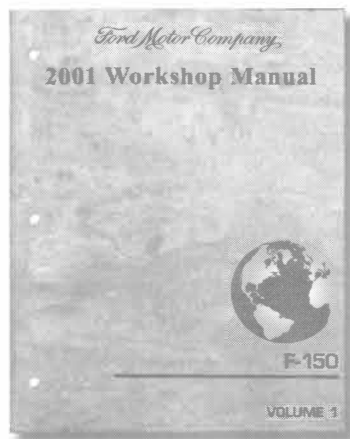
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# F-150 Wiring Diagrams

Table of Contents .....	1-1	Multifunction Electronic Control Modules .....	59-1
Index .....	2-1	Instrument Cluster .....	60-1
Introduction .....	3-1	Warning Devices .....	66-1
Symbols .....	4-1	Illumination .....	71-1
Connector Repair Procedures .....	5-1	Wipers and Washers .....	81-1
Systems Overview .....	8-1	Headlamps .....	85-1
Wiring Harness Overview .....	9-1	Fog Lamps .....	86-1
Grounds .....	10-1	Autolamps .....	87-1
Fuse and Relay Information .....	11-1	Courtesy Lamps .....	89-1
Charging System .....	12-1	Turn/Stop/Hazard Lamps .....	90-1
Power Distribution .....	13-1	Exterior Lamps .....	92-1
Module Communications Network .....	14-1	Reversing Lamps .....	93-1
Starting System .....	20-1	Trailer/Camper Adapter .....	95-1
Engine Ignition .....	21-1	Daytime Running Lamps .....	97-1
Engine Controls – 5.4L Bi-Fuel .....	22-1	Power Windows .....	100-1
Engine Controls – 4.2L .....	23-1	Roof Opening Panel .....	101-1
Engine Controls – 4.6L .....	24-1	Overhead Console .....	102-1
Engine Controls – 5.4L .....	25-1	Power Door Locks .....	110-1
Engine Controls – 5.4L NGV .....	26-1	Anti-Theft .....	112-1
Engine Controls – 5.4L supercharged .....	27-1	Remote Control Alarm and Locks .....	117-1
Engine Controls – 5.4L CNG .....	28-1	Climate Controlled Seats .....	119-1
Transmission Controls – 4R70W .....	29-1	Power Seats .....	120-1
Transmission Controls – 4R100 .....	30-1	Power Mirrors .....	124-1
Vehicle Speed Control .....	31-1	Electronic Day/Night Mirror .....	125-1
Electronic Shift Control .....	34-1	Adjustable Pedal .....	127-1
Shift Lock .....	37-1	Radio .....	130-1
ABS .....	42-1	Rear Seat Entertainment (RSE) .....	132-1
Horn/Cigar Lighter .....	44-1	Component Testing .....	149-1
Air Bags .....	46-1	Connector Views .....	150-1
.....	53-1	Component Location Views .....	151-1
.....	54-1	Component Location Charts .....	152-1
.....	55-1	Vehicle Repair Location Charts .....	160-1
.....	56-1		



4R100 transmission .....	30-5	Alternative Fuel Control Module (AFCM) .....	28-6
4R70W transmission .....	29-5	Ambient air temperature sensor (19E702) .....	102-1
4x2 center axle disconnect solenoid – with Electronic Shift On the Fly (ESOF) .....	34-5	Ambient air temperature sensor (19E702) .....	55-3
4x2 center axle disconnect solenoid – with Mechanical Shift On the Fly (MSOF) .....	34-6	Antenna – Harley Davidson .....	130-5
4x4 center axle disconnect solenoid – with Electronic Shift On the Fly (ESOF) .....	34-5	Antenna – MP3 player .....	130-2
4x4 center axle disconnect solenoid – with Mechanical Shift On the Fly (MSOF) .....	34-6	Antenna – Regular cab, Super cab .....	130-3
4x4 High/Low indicator switch .....	34-6	Antenna – Supercrew .....	130-7
A/C clutch cycling pressure switch (19E561) .....	54-3	Ashtray illumination lamp .....	71-1
A/C clutch cycling pressure switch (19E561) .....	55-4	Autolamp sensor .....	87-2
A/C clutch field coil (19D798) .....	54-4	Auxiliary relay box 1 .....	11-5
A/C clutch field coil (19D798) .....	55-3	Auxiliary relay box 2 .....	11-6
A/C clutch relay .....	54-4	Auxiliary relay box 3 .....	11-7
A/C clutch relay .....	55-3	Auxiliary relay box 4 .....	11-8
A/C Compressor clutch diode .....	54-4	Auxiliary relay box 5 .....	11-9
A/C Compressor clutch diode .....	55-3	Barometric Absolute Pressure (BAP) sensor .....	27-9
A/C high pressure switch (19D594) .....	54-3	Battery (10655) .....	13-1
A/C high pressure switch (19D594) .....	55-4	Battery Junction Box (BJB) (14A003) .....	13-1
ABS control module (2C219) .....	42-1	Battery saver relay .....	59-3
Accessory delay relay .....	59-3	Belt minder module .....	66-2
Adjustable pedal motor (2C429) .....	127-1	Bi-Fuel power relay – 5.4L Bi-Fuel .....	22-11
Adjustable pedal switch .....	127-1	Bi-Fuel power relay – 5.4L CNG .....	28-14
Air bag sliding contact (14A664) .....	31-2	Bi-Fuel relay module .....	11-10
Air bag sliding contact (14A664) .....	44-1	Bi-Fuel relay module .....	22-11
Air bag sliding contact (14A664) .....	46-2	Blower motor relay .....	53-1
Alternate fuel injector 1 .....	28-9	Blower motor relay .....	54-2
Alternate fuel injector 2 .....	28-9	Blower motor relay .....	55-2
Alternate fuel injector 3 .....	28-9	Blower motor resistor (19A706) .....	53-1
Alternate fuel injector 4 .....	28-9	Blower motor resistor (19A706) .....	54-2
Alternate fuel injector 5 .....	28-9	Brake fluid level switch (2L414) .....	60-3
.....	28-9	Brake pedal position switch (13480) .....	90-4
.....	28-8	Brake pressure switch (2B264) .....	31-3
.....	28-8	Brake shift interlock .....	37-1
.....	28-8	Camshaft position sensor (6B288) – 4.2L .....	23-7
.....	28-8	Camshaft position sensor (6B288) – 4.6L .....	24-7
.....	28-8	Camshaft position sensor (6B288) – 5.4L .....	25-7
.....	28-8	Camshaft position sensor (6B288) – 5.4L Bi-Fuel .....	22-7

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Camshaft position sensor (6B288) – 5.4L CNG	28–12	Cylinder-head temperature sensor (6G004) – 5.4L supercharged	27–4
Camshaft position sensor (6B288) – 5.4L Natural Gas Vehicle (NGV)	26–7	Data Link Connector (DLC) (14489) – ISO Bus	14–2
Camshaft position sensor (6B288) – 5.4L supercharged	27–8	Data Link Connector (DLC) (14489) – SCP Bus, Manual A/C	14–3
Cargo lamp 1	89–4	Data Link Connector (DLC) (14489) – SCP Bus, with EATC	14–4
Cargo lamp 2	89–4	Daytime Running Lamps (DRL) relay 1	97–2
Central Junction Box (CJB) (14A068)	13–8	Daytime running lamps resistor	97–2
Central security module	117–2	Differential Pressure Feedback EGR (DPFE) sensor (9J460) – 4.2L	23–8
Central Timer Module (CTM)	59–2	Differential Pressure Feedback EGR (DPFE) sensor (9J460) – 4.6L	24–8
Charge air cooler pump motor	27–12	Differential Pressure Feedback EGR (DPFE) sensor (9J460) – 5.4L	25–8
Charge air cooler pump relay	27–12	Differential Pressure Feedback EGR (DPFE) sensor (9J460) – 5.4L Bi-Fuel	22–8
Cigar lighter, front (15055)	44–2	Differential Pressure Feedback EGR (DPFE) sensor (9J460) – 5.4L CNG	28–11
Clutch pedal position switch	20–1	Differential Pressure Feedback EGR (DPFE) sensor (9J460) – 5.4L supercharged	27–9
Clutch triple function switch jumper	20–2	Digital Transmission Range (DTR) sensor (7F293) – 4R100	30–4
Coil On Plug (COP) 1 (12029)	21–5	Digital Transmission Range (DTR) sensor (7F293) – 4R70W	29–4
Coil On Plug (COP) 2 (12029)	21–5	Door ajar switch, driver side rear (14018)	66–1
Coil On Plug (COP) 3 (12029)	21–5	Door ajar switch, left front	66–1
Coil On Plug (COP) 4 (12029)	21–5	Door ajar switch, passenger side rear (14018)	66–1
Coil On Plug (COP) 5 (12029)	21–5	Door ajar switch, right front	66–1
Coil On Plug (COP) 6 (12029)	21–5	Door entry lamp, left front (13776) – Early production	89–2
Coil On Plug (COP) 7 (12029)	21–5	Door entry lamp, right front (13776) – Early production	89–2
Coil On Plug (COP) 8 (12029)	21–5	Door lock actuator, left front	110–1
Cold start heater	22–15	Door lock actuator, left rear (218A43)	110–1
Cold start heater diode	22–15	Door lock actuator, right front	110–1
Cold start heater relay	22–15	Door lock actuator, right rear (218A42)	110–1
Compuvalve module – Bi-Fuel	22–11	Door lock switch, driver side (14028)	110–1
Crankshaft position sensor (6C315) – Bi-Fuel	21–6	Door lock switch, driver side (14028)	117–3
Crankshaft position sensor (6C315)	21–3	Door lock switch, passenger side (14028)	110–1
Crash fuel shutoff relay	27–10	Door lock switch, passenger side (14028)	117–3
Cylinder-head temperature sensor (6G004) – 4.2L	23–3	Driver air bag unit (78043B13)	46–2
Cylinder-head temperature sensor (6G004) – 4.6L	24–3	Driver safety belt retractor pretensioner	46–1
Cylinder-head temperature sensor (6G004) – 5.4L	25–3		
Cylinder-head temperature sensor (6G004) – 5.4L Bi-Fuel	22–3		
Cylinder-head temperature sensor (6G004) – 5.4L CNG	28–5		
Cylinder-head temperature sensor (6G004) – 5.4L Natural Gas	26–3		

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Dropping resistor .....	27-10	F1.8 .....	13-6
EGR vacuum regulator solenoid (9J459) - 4.2L .....	23-6	F1.9 .....	13-3
EGR vacuum regulator solenoid (9J459) - 4.6L .....	24-6	F1.10 .....	13-4
EGR vacuum regulator solenoid (9J459) - 5.4L .....	25-6	F1.11 .....	13-1
EGR vacuum regulator solenoid (9J459) - 5.4L Bi-Fuel .....	22-6	F1.12 .....	13-5
EGR vacuum regulator solenoid (9J459) - 5.4L CNG .....	28-10	F1.13 .....	13-3
EGR vacuum regulator solenoid (9J459) - 5.4L supercharged .....	27-7	F1.15 .....	89-6
Electrochromatic inside mirror unit (17700) .....	125-1	F1.16 .....	28-5
Electronic Automatic Temperature Control (EATC) module (19980) .....	55-2	F1.17 .....	13-10
Engine compartment lamp .....	89-2	F1.18 - 4.2L .....	23-3
EVAP canister purge valve - 4.2L .....	23-6	F1.18 - 4.6L .....	24-3
EVAP canister purge valve - 4.6L .....	24-6	F1.18 - 5.4L .....	25-3
EVAP canister purge valve - 5.4L .....	25-6	F1.18 - 5.4L Bi-Fuel .....	22-3
EVAP canister purge valve - 5.4L Bi-Fuel .....	22-6	F1.18 - 5.4L CNG .....	28-5
EVAP canister purge valve - 5.4L CNG .....	28-10	F1.18 - 5.4L Natural Gas Vehicle (NGV) .....	26-3
EVAP canister purge valve - 5.4L supercharged .....	27-7	F1.18 - 5.4L supercharged .....	27-4
Evaporative emission (EVAP) canister vent valve (9F945) - 4.2L .....	23-6	F1.19 .....	95-3
Evaporative emission (EVAP) canister vent valve (9F945) - 4.6L .....	24-6	F1.20 .....	95-3
Evaporative emission (EVAP) canister vent valve (9F945) - 5.4L .....	25-6	F1.23 - 4.2L .....	23-3
Evaporative emission (EVAP) canister vent valve (9F945) - 5.4L Bi-Fuel .....	22-6	F1.23 - 4.6L .....	24-3
Evaporative emission (EVAP) canister vent valve (9F945) - 5.4L CNG .....	28-10	F1.23 - 5.4L .....	25-3
Evaporative emission (EVAP) canister vent valve (9F945) - 5.4L supercharged .....	27-7	F1.23 - 5.4L Bi-Fuel .....	22-3
Exterior rear view mirror, driver side (17682) .....	124-1	F1.23 - 5.4L CNG .....	28-5
Exterior rear view mirror, passenger side (17683) .....	124-1	F1.23 - 5.4L Natural Gas Vehicle (NGV) .....	26-3
Exterior rear view mirror switch (17B676) .....	124-1	F1.23 - 5.4L supercharged .....	27-4
F1.1 .....	13-3	F1.101 .....	13-3
F1.2 .....	13-6	F1.102 .....	13-3
F1.3 .....	13-2	F1.103 .....	13-4
.....	13-2	F1.104 .....	13-5
.....	13-1	F1.105 .....	13-4
.....	13-2	F1.106 .....	13-5
.....	13-2	F1.108 .....	13-6
.....	13-1	F1.110 .....	13-6
.....	13-2	F1.111 .....	13-4
.....	13-2	F1.112 .....	13-4
.....	13-2	F1.113 .....	13-4

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F1.115 ..... 13-6  
 F1.116 ..... 13-6  
 F1.117 ..... 13-4  
 F1.118 ..... 13-5  
 F1.601 ..... 13-6  
 F2.1 ..... 13-8  
 F2.2 ..... 13-8  
 F2.3 ..... 13-8  
 F2.4 ..... 13-9  
 F2.5 ..... 13-10  
 F2.6 ..... 13-10  
 F2.8 ..... 13-11  
 F2.11 ..... 13-11  
 F2.13 ..... 13-9  
 F2.14 ..... 13-9  
 F2.15 ..... 13-9  
 F2.16 ..... 85-1  
 F2.18 ..... 13-12  
 F2.20 ..... 13-15  
 F2.21 ..... 13-15  
 F2.22 ..... 13-15  
 F2.23 ..... 13-16  
 F2.24 ..... 13-16  
 F2.26 ..... 85-1  
 F2.27 ..... 86-2  
 F2.28 ..... 85-1  
 F2.29 ..... 13-13  
 F2.30 ..... 13-13  
 F3.1 ..... 13-17  
 F3.2 ..... 13-17  
 Fog lamp, left front (15200) ..... 86-2  
 Fog lamp, right front (15200) ..... 86-2  
 Fuel injector 1 (9F593) - 4.2L ..... 23-5  
 Fuel injector 1 (9F593) - 4.6L ..... 24-5  
 Fuel injector 1 (9F593) - 5.4L ..... 25-5  
 Fuel injector 1 (9F593) - 5.4L Bi-Fuel ..... 22-5  
 Fuel injector 1 (9F593) - 5.4L CNG ..... 28-7  
 Fuel injector 1 (9F593) - 5.4L Natural Gas Vehicle (NGV) ..... 26-5  
 Fuel injector 1 (9F593) - 5.4L supercharged ..... 27-6  
 Fuel injector 2 (9F593) - 4.2L ..... 23-5  
 Fuel injector 2 (9F593) - 4.6L ..... 24-5  
 Fuel injector 2 (9F593) - 5.4L ..... 25-5  
 Fuel injector 2 (9F593) - 5.4L Bi-Fuel ..... 22-5  
 Fuel injector 2 (9F593) - 5.4L CNG ..... 28-7  
 Fuel injector 2 (9F593) - 5.4L Natural Gas Vehicle (NGV) ..... 26-5  
 Fuel injector 2 (9F593) - 5.4L supercharged ..... 27-6  
 Fuel injector 3 (9F593) - 4.2L ..... 23-5  
 Fuel injector 3 (9F593) - 4.6L ..... 24-5  
 Fuel injector 3 (9F593) - 5.4L ..... 25-5  
 Fuel injector 3 (9F593) - 5.4L Bi-Fuel ..... 22-5  
 Fuel injector 3 (9F593) - 5.4L CNG ..... 28-7  
 Fuel injector 3 (9F593) - 5.4L Natural Gas Vehicle (NGV) ..... 26-5  
 Fuel injector 3 (9F593) - 5.4L supercharged ..... 27-6  
 Fuel injector 4 (9F593) - 4.2L ..... 23-5  
 Fuel injector 4 (9F593) - 4.6L ..... 24-5  
 Fuel injector 4 (9F593) - 5.4L ..... 25-5  
 Fuel injector 4 (9F593) - 5.4L Bi-Fuel ..... 22-5  
 Fuel injector 4 (9F593) - 5.4L CNG ..... 28-7  
 Fuel injector 4 (9F593) - 5.4L Natural Gas Vehicle (NGV) ..... 26-5  
 Fuel injector 4 (9F593) - 5.4L supercharged ..... 27-6  
 Fuel injector 5 (9F593) - 4.2L ..... 23-5  
 Fuel injector 5 (9F593) - 4.6L ..... 24-5  
 Fuel injector 5 (9F593) - 5.4L ..... 25-5  
 Fuel injector 5 (9F593) - 5.4L Bi-Fuel ..... 22-5  
 Fuel injector 5 (9F593) - 5.4L CNG ..... 28-7  
 Fuel injector 5 (9F593) - 5.4L Natural Gas Vehicle (NGV) ..... 26-5

Front blower motor (19805) ..... 55-4  
 Front blower motor speed controller (19E624) ..... 55-2  
 Fuel injector 1 (9F593) - 4.2L ..... 23-5  
 Fuel injector 1 (9F593) - 4.6L ..... 24-5  
 Fuel injector 1 (9F593) - 5.4L ..... 25-5  
 Fuel injector 1 (9F593) - 5.4L Bi-Fuel ..... 22-5  
 Fuel injector 1 (9F593) - 5.4L CNG ..... 28-7  
 Fuel injector 1 (9F593) - 5.4L Natural Gas Vehicle (NGV) ..... 26-5  
 Fuel injector 1 (9F593) - 5.4L supercharged ..... 27-6  
 Fuel injector 2 (9F593) - 4.2L ..... 23-5  
 Fuel injector 2 (9F593) - 4.6L ..... 24-5  
 Fuel injector 2 (9F593) - 5.4L ..... 25-5  
 Fuel injector 2 (9F593) - 5.4L Bi-Fuel ..... 22-5  
 Fuel injector 2 (9F593) - 5.4L CNG ..... 28-7  
 Fuel injector 2 (9F593) - 5.4L Natural Gas Vehicle (NGV) ..... 26-5  
 Fuel injector 2 (9F593) - 5.4L supercharged ..... 27-6  
 Fuel injector 3 (9F593) - 4.2L ..... 23-5  
 Fuel injector 3 (9F593) - 4.6L ..... 24-5  
 Fuel injector 3 (9F593) - 5.4L ..... 25-5  
 Fuel injector 3 (9F593) - 5.4L Bi-Fuel ..... 22-5  
 Fuel injector 3 (9F593) - 5.4L CNG ..... 28-7  
 Fuel injector 3 (9F593) - 5.4L Natural Gas Vehicle (NGV) ..... 26-5  
 Fuel injector 3 (9F593) - 5.4L supercharged ..... 27-6  
 Fuel injector 4 (9F593) - 4.2L ..... 23-5  
 Fuel injector 4 (9F593) - 4.6L ..... 24-5  
 Fuel injector 4 (9F593) - 5.4L ..... 25-5  
 Fuel injector 4 (9F593) - 5.4L Bi-Fuel ..... 22-5  
 Fuel injector 4 (9F593) - 5.4L CNG ..... 28-7  
 Fuel injector 4 (9F593) - 5.4L Natural Gas Vehicle (NGV) ..... 26-5  
 Fuel injector 4 (9F593) - 5.4L supercharged ..... 27-6  
 Fuel injector 5 (9F593) - 4.2L ..... 23-5  
 Fuel injector 5 (9F593) - 4.6L ..... 24-5  
 Fuel injector 5 (9F593) - 5.4L ..... 25-5  
 Fuel injector 5 (9F593) - 5.4L Bi-Fuel ..... 22-5  
 Fuel injector 5 (9F593) - 5.4L CNG ..... 28-7  
 Fuel injector 5 (9F593) - 5.4L Natural Gas Vehicle (NGV) ..... 26-5

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Fuel injector 5 (9F593) – 5.4L supercharged	27–6	Fuel pump relay – 4.6L	24–9
Fuel injector 6 (9F593) – 4.2L	23–5	Fuel pump relay – 5.4L	25–9
Fuel injector 6 (9F593) – 4.6L	24–5	Fuel pump relay – 5.4L Bi-Fuel	22–9
Fuel injector 6 (9F593) – 5.4L	25–5	Fuel pump relay – 5.4L CNG	28–13
Fuel injector 6 (9F593) – 5.4L Bi-Fuel	22–5	Fuel pump relay – 5.4L Natural Gas Vehicle (NGV)	26–9
Fuel injector 6 (9F593) – 5.4L CNG	28–7	Fuel pump relay – 5.4L supercharged	27–10
Fuel injector 6 (9F593) – 5.4L Natural Gas Vehicle (NGV)	26–5	Fuel rail cutoff valve – 5.4L CNG	28–14
Fuel injector 6 (9F593) – 5.4L supercharged	27–6	Fuel rail cutoff valve – 5.4L Natural Gas Vehicle (NGV)	26–9
Fuel injector 7 (9F593) – 4.6L	24–4	Fuel rail pressure transducer sensor	28–17
Fuel injector 7 (9F593) – 5.4L	25–4	Fuel rail temperature sensor – 5.4L CNG	28–17
Fuel injector 7 (9F593) – 5.4L Bi-Fuel	22–4	Fuel rail temperature sensor – 5.4L Natural Gas Vehicle (NGV)	26–9
Fuel injector 7 (9F593) – 5.4L CNG	28–6	Fuel tank pressure sensor	28–17
Fuel injector 7 (9F593) – 5.4L Natural Gas Vehicle (NGV)	26–4	Fuel tank pressure transducer sensor (9C968) – 4.2L	23–9
Fuel injector 7 (9F593) – 5.4L supercharged	27–5	Fuel tank pressure transducer sensor (9C968) – 4.6L	24–9
Fuel injector 8 (9F593) – 4.6L	24–4	Fuel tank pressure transducer sensor (9C968) – 5.4L	25–9
Fuel injector 8 (9F593) – 5.4L	25–4	Fuel tank pressure transducer sensor (9C968) – 5.4L Bi-Fuel	22–9
Fuel injector 8 (9F593) – 5.4L Bi-Fuel	22–4	Fuel tank pressure transducer sensor (9C968) – 5.4L CNG	28–15
Fuel injector 8 (9F593) – 5.4L CNG	28–6	Fuel tank pressure transducer sensor (9C968) – 5.4L supercharged	27–13
Fuel injector 8 (9F593) – 5.4L Natural Gas Vehicle (NGV)	26–4	Fuel tank temperature sensor	22–14
Fuel injector 8 (9F593) – 5.4L supercharged	27–5	Function selector switch assembly (19B888)	53–1
Fuel pump – 4.2L	23–9	Function selector switch assembly (19B888)	54–2
Fuel pump – 4.6L	24–9	Fusible link A	13–1
Fuel pump – 5.4L	25–9	Fusible link B	13–1
Fuel pump – 5.4L Bi-Fuel	22–13	Fusible link C	13–1
Fuel pump – 5.4L Bi-Fuel	22–9	G100	10–1
Fuel pump – 5.4L CNG	28–15	G101	10–1
Fuel pump – 5.4L supercharged	27–13	G102	10–2
Fuel pump cutoff relay – 5.4L Bi-Fuel	22–11	G103	10–3
Fuel pump cutoff relay – 5.4L CNG	28–14	G104	10–4
Fuel pump high/low relay	27–13	G105	10–1
Fuel pump module – 4.2L	23–9	G106	10–5
Fuel pump module – 4.6L	24–9	G107	10–6
Fuel pump module – 5.4L	25–9	G108	10–5
Fuel pump module – 5.4L Bi-Fuel	22–13	G200	10–7
Fuel pump module – 5.4L CNG	28–15	G201	10–9
Fuel pump module – 5.4L supercharged	23–9		

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G202 .....	10-10	Heated Oxygen Sensor (HO2S) #22 (9G444) – 4.2L .....	23-10
G203 .....	10-11	Heated Oxygen Sensor (HO2S) #22 (9G444) – 4.6L .....	24-10
G400 .....	10-10	Heated Oxygen Sensor (HO2S) #22 (9G444) – 5.4L .....	25-10
G4001 .....	22-11	Heated Oxygen Sensor (HO2S) #22 (9G444) – 5.4L Bi-Fuel ...	22-10
Generator – 5.4L supercharged .....	12-2	Heated Oxygen Sensor (HO2S) #22 (9G444) – 5.4L CNG .....	28-16
Generator .....	12-1	Heated Oxygen Sensor (HO2S) #22 (9G444) – 5.4L supercharged .....	27-11
Generic Electronic Module (GEM) (14B205) .....	59-1	Heated seat module, driver side front (14C724) .....	119-2
Glove box lamp (14413) .....	89-2	Heated seat module, passenger side front .....	119-3
Headlamp, left (13008) .....	85-2	High flow injector assembly .....	22-12
Headlamp, right (13008) .....	85-2	High mounted stoplamp (13A613) .....	90-4
Headlamp relay .....	87-2	High pitch horn .....	44-1
Heated Oxygen Sensor (HO2S) #11 (9F472) – 4.2L .....	23-6	Horn (13832) .....	44-1
Heated Oxygen Sensor (HO2S) #11 (9F472) – 4.6L .....	24-6	Horn relay .....	44-1
Heated Oxygen Sensor (HO2S) #11 (9F472) – 5.4L .....	25-6	Horn switch .....	44-1
Heated Oxygen Sensor (HO2S) #11 (9F472) – 5.4L Bi-Fuel .....	22-6	Idle Air Control (IAC) valve (9F715) – 4.2L .....	23-5
Heated Oxygen Sensor (HO2S) #11 (9F472) – 5.4L CNG .....	28-10	Idle Air Control (IAC) valve (9F715) – 4.6L .....	24-5
Heated Oxygen Sensor (HO2S) #11 (9F472) – 5.4L Natural Gas Vehicle (NGV) .....	26-6	Idle Air Control (IAC) valve (9F715) – 5.4L .....	25-5
Heated Oxygen Sensor (HO2S) #11 (9F472) – 5.4L supercharged .....	27-7	Idle Air Control (IAC) valve (9F715) – 5.4L Bi-Fuel .....	22-5
Heated Oxygen Sensor (HO2S) #12 (9G444) – 4.2L .....	23-10	Idle Air Control (IAC) valve (9F715) – 5.4L CNG .....	28-7
Heated Oxygen Sensor (HO2S) #12 (9G444) – 4.6L .....	24-10	Idle Air Control (IAC) valve (9F715) – 5.4L Natural Gas Vehicle (NGV) .....	26-5
Heated Oxygen Sensor (HO2S) #12 (9G444) – 5.4L .....	25-10	Idle Air Control (IAC) valve (9F715) – 5.4L supercharged .....	27-6
Heated Oxygen Sensor (HO2S) #12 (9G444) – 5.4L Bi-Fuel ...	22-10	Ignition coil (12029) .....	21-4
Heated Oxygen Sensor (HO2S) #12 (9G444) – 5.4L CNG .....	28-16	Ignition key switch .....	66-1
Heated Oxygen Sensor (HO2S) #12 (9G444) – 5.4L supercharged .....	27-11	Ignition switch (11572) .....	13-7
Heated Oxygen Sensor (HO2S) #21 (9F472) – 4.2L .....	23-6	Ignition transformer capacitor 1 (18801) – 4.2L .....	21-4
Heated Oxygen Sensor (HO2S) #21 (9F472) – 4.6L .....	24-6	Ignition transformer capacitor 1 (18801) – 4.6L, 5.4L .....	21-5
Heated Oxygen Sensor (HO2S) #21 (9F472) – 5.4L .....	25-6	Ignition transformer capacitor 2 (18801) .....	21-5
Heated Oxygen Sensor (HO2S) #21 (9F472) – 5.4L Bi-Fuel .....	22-6	In-bed fuel tank valve, front .....	26-9
Heated Oxygen Sensor (HO2S) #21 (9F472) – 5.4L CNG .....	28-10	In-bed fuel tank valve, rear .....	26-9
Heated Oxygen Sensor (HO2S) #21 (9F472) – 5.4L Natural Gas Vehicle (NGV) .....	26-6	In-vehicle temperature sensor (19C734) .....	55-3
Heated Oxygen Sensor (HO2S) #21 (9F472) – 5.4L supercharged .....	27-7	Indicator flasher relay (13350) .....	90-2
		Indicator light switch .....	22-16
		Inertia Fuel Shutoff (IFS) switch (9D362) – 4.2L .....	23-9
		Inertia Fuel Shutoff (IFS) switch (9D362) – 4.6L .....	24-9

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Inertia Fuel Shutoff (IFS) switch (9D362) – 5.4L . . . . .	25–9	Low flow injector assembly . . . . .	22–12
Inertia Fuel Shutoff (IFS) switch (9D362) – 5.4L Bi-Fuel . . . . .	22–9	Low pitch horn . . . . .	44–1
Inertia Fuel Shutoff (IFS) switch (9D362) – 5.4L CNG . . . . .	28–13	Main light switch (11654) . . . . .	13–19
Inertia Fuel Shutoff (IFS) switch (9D362) – 5.4L Natural Gas Vehicle (NGV) . . . . .	26–9	Mass Air Flow (MAF) sensor (12B579) – 4.2L . . . . .	23–4
Inertia Fuel Shutoff (IFS) switch (9D362) – 5.4L supercharged . . . . .	27–13	Mass Air Flow (MAF) sensor (12B579) – 4.6L . . . . .	24–4
Injection Control Pressure (ICP) sensor . . . . .	26–8	Mass Air Flow (MAF) sensor (12B579) – 5.4L . . . . .	25–4
Instrument cluster . . . . .	60–2	Mass Air Flow (MAF) sensor (12B579) – 5.4L Bi-Fuel . . . . .	22–4
Intake Air Temperature (IAT) sensor (12A697) – 4.2L . . . . .	23–3	Mass Air Flow (MAF) sensor (12B579) – 5.4L CNG . . . . .	28–6
Intake Air Temperature (IAT) sensor (12A697) – 4.6L . . . . .	24–3	Mass Air Flow (MAF) sensor (12B579) – 5.4L Natural Gas Vehicle (NGV) . . . . .	26–4
Intake Air Temperature (IAT) sensor (12A697) – 5.4L . . . . .	25–3	Mass Air Flow (MAF) sensor (12B579) – 5.4L supercharged . . . . .	27–5
Intake Air Temperature (IAT) sensor (12A697) – 5.4L Bi-Fuel . . . . .	22–3	Master window adjust switch (14529) – Regular cab, Super cab . . . . .	100–3
Intake Air Temperature (IAT) sensor (12A697) – 5.4L CNG . . . . .	28–5	Master window adjust switch (14529) – Supercrew, Harley Davidson . . . . .	100–4
Intake Air Temperature (IAT) sensor (12A697) – 5.4L Natural Gas Vehicle (NGV) . . . . .	26–3	Mechanical Shift On the Fly (MSOF) relay . . . . .	34–6
Intake Air Temperature (IAT) sensor 1 . . . . .	27–4	Midship fuel tank valve . . . . .	26–9
Intake Air Temperature (IAT) sensor 2 . . . . .	27–12	Mirror turn signal relay, left . . . . .	90–6
Intake Manifold Runner Control (IMRC) module – 4.2L . . . . .	23–7	Mirror turn signal relay, right . . . . .	90–6
Intake Manifold Tuning Valve (IMTV) – 4.6L . . . . .	24–7	Multifunction switch . . . . .	81–1
Intake Manifold Tuning Valve (IMTV) – 5.4L Bi-Fuel . . . . .	22–7	Multifunction switch . . . . .	85–1
Interior/map lamps assembly, front . . . . .	89–3	Multifunction switch . . . . .	87–4
Interior lamp – Supercrew, Harley Davidson . . . . .	89–5	Multifunction switch . . . . .	90–2
Interior lamp . . . . .	89–3	Natural Gas Vehicle (NGV) fuel tank pressure sensor . . . . .	26–11
Interior lamp relay . . . . .	89–2	Natural Gas Vehicle (NGV) module . . . . .	26–4
Key pad switch assembly . . . . .	117–4	Natural Gas Vehicle (NGV) timer jumper . . . . .	21–2
Knock sensor (12A699) – 4.2L . . . . .	23–8	Oil pressure switch (9278) . . . . .	60–3
Knock sensor (12A699) – 4.6L . . . . .	24–8	One-touch window relay . . . . .	100–2
Knock sensor (12A699) – 5.4L . . . . .	25–8	Output Shaft Speed (OSS) sensor (7M101) – 4R100 . . . . .	30–4
Knock sensor (12A699) – 5.4L Bi-Fuel . . . . .	22–8	Output Shaft Speed (OSS) sensor (7M101) – 4R70W . . . . .	29–4
Knock sensor (12A699) – 5.4L CNG . . . . .	28–11	Overhead console . . . . .	102–1
Knock sensor (12A699) – 5.4L supercharged . . . . .	27–9	Park/stop/turn lamp, left rear . . . . .	90–3
License plate lamp, left . . . . .	92–2	Park/stop/turn lamp, left rear . . . . .	92–2
License plate lamp, right . . . . .	92–2	Park/stop/turn lamp, right rear . . . . .	90–3
Light switch assembly . . . . .	22–15	Park/stop/turn lamp, right rear . . . . .	92–2
Light switch assembly . . . . .	22–15	Park/turn lamp, left front (13411) . . . . .	90–4
Light switch assembly . . . . .	22–15	Park/turn lamp, left front (13411) . . . . .	92–1

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Park/turn lamp, right front (13411) . . . . .	90-4	Power window motor, driver side front (23395) . . . . .	100-2
Park/turn lamp, right front (13411) . . . . .	92-1	Power window motor, left rear (23394) . . . . .	100-5
Parking brake switch (15A851) . . . . .	60-2	Power window motor, passenger side front (23394) –	
Park lamp relay . . . . .	92-1	Regular cab, Super cab . . . . .	100-3
Passenger Air bag Deactivation (PAD) switch . . . . .	46-2	Power window motor, passenger side front (23394) –	
Passenger air bag module (15044A74) . . . . .	46-2	Supercrew, Harley Davidson . . . . .	100-4
Passenger safety belt retractor pretensioner . . . . .	46-1	Power window motor, right rear (23394) . . . . .	100-5
Passive anti-theft transceiver module (15607) . . . . .	112-1	Radio (18806) – Harley Davidson . . . . .	130-5
PCM power diode – 4.2L . . . . .	23-3	Radio (18806) – MP3 player . . . . .	130-2
PCM power diode – 4.6L . . . . .	24-3	Radio (18806) – Regular cab, Super cab . . . . .	130-3
PCM power diode – 5.4L . . . . .	25-3	Radio (18806) – Supercrew . . . . .	130-7
PCM power diode – 5.4L Bi-Fuel . . . . .	22-3	Rail lamp, LH side (13776) . . . . .	89-5
PCM power diode – 5.4L CNG . . . . .	28-5	Rail lamp, RH side (13776) . . . . .	89-5
PCM power diode – 5.4L Natural Gas Vehicle (NGV) . . . . .	26-3	Rear axle speed sensor (4B409) . . . . .	42-2
PCM power diode – 5.4L supercharged . . . . .	27-4	Rear Integrated Control Panel (RICP) (19980) . . . . .	130-5
PCM power relay – 4.2L . . . . .	23-3	Rear Seat Entertainment (RSE) module . . . . .	132-2
PCM power relay – 4.6L . . . . .	24-3	Rear window adjust switch . . . . .	100-6
PCM power relay – 5.4L . . . . .	25-3	Rear window defrost grid (18C618) . . . . .	56-1
PCM power relay – 5.4L Bi-Fuel . . . . .	22-3	Rear window defrost relay . . . . .	56-1
PCM power relay – 5.4L CNG . . . . .	28-5	Rear window motor . . . . .	100-6
PCM power relay – 5.4L Natural Gas Vehicle (NGV) . . . . .	26-3	Resistor . . . . .	22-11
PCM power relay – 5.4L supercharged . . . . .	27-4	Resistor A . . . . .	31-2
Power point (19N236) . . . . .	44-2	Restraints control module (14B321) . . . . .	46-1
Power point, console (19N236) . . . . .	44-2	Reversing lamp, left (13411) . . . . .	93-1
Power point, rear (19G247) . . . . .	44-2	Reversing lamps switch . . . . .	93-1
Power seat motor assembly, left . . . . .	120-1	Roof opening panel module (502D70) . . . . .	101-2
Power seat switch, left . . . . .	120-1	Roof opening panel motor assembly (15790) . . . . .	101-2
Powertrain Control Module (PCM) (12A650) – 4.2L . . . . .	23-3	Running board lamp, left front . . . . .	89-6
Powertrain Control Module (PCM) (12A650) – 4.6L . . . . .	24-3	Running board lamp, left rear . . . . .	89-6
Powertrain Control Module (PCM) (12A650) – 5.4L . . . . .	25-3	Running board lamp, right front . . . . .	89-6
Powertrain Control Module (PCM) (12A650) – 5.4L Bi-Fuel . . . . .	22-3	Running board lamp, right rear . . . . .	89-6
Powertrain Control Module (PCM) (12A650) – 5.4L CNG . . . . .	28-5	S100 . . . . .	10-6
Powertrain Control Module (PCM) (12A650) – 5.4L Natural Gas . . . . .	26-3	S101 . . . . .	10-1
Powertrain Control Module (PCM) (12A650) – 5.4L . . . . .	27-4	S102 . . . . .	10-2
		S104 . . . . .	10-3
		S105 . . . . .	10-3

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S106	10-4	S135 - 5.4L	25-8
S108	13-1	S135 - 5.4L Bi-Fuel	22-8
S109	13-3	S135 - 5.4L CNG	28-11
S112	13-10	S135 - 5.4L Natural Gas Vehicle (NGV)	26-8
S113	13-11	S135 - 5.4L supercharged	27-9
S114	85-2	S136 - 4.2L	23-8
S115	13-12	S136 - 4.6L	24-8
S116	13-13	S136 - 5.4L	25-8
S117	13-14	S136 - 5.4L Bi-Fuel	22-8
S120	13-16	S136 - 5.4L CNG	28-11
S125	53-1	S136 - 5.4L Natural Gas Vehicle (NGV)	26-8
S125	54-2	S136 - 5.4L supercharged	27-9
S127 - 4.2L	23-4	S137 - 4.2L	23-8
S127 - 4.6L	24-4	S137 - 4.6L	24-8
S127 - 5.4L	25-4	S137 - 5.4L	25-8
S127 - 5.4L Bi-Fuel	22-4	S137 - 5.4L Bi-Fuel	22-8
S127 - 5.4L CNG	28-6	S137 - 5.4L CNG	28-11
S127 - 5.4L Natural Gas Vehicle (NGV)	26-4	S137 - 5.4L supercharged	27-9
S127 - 5.4L supercharged	27-5	S138 - 4.2L	23-8
S129 - 4.2L	23-5	S138 - 4.6L	24-8
S129 - 4.6L	24-5	S138 - 5.4L	25-8
S129 - 5.4L	25-5	S138 - 5.4L Bi-Fuel	22-8
S129 - 5.4L Bi-Fuel	22-5	S138 - 5.4L CNG	28-11
S129 - 5.4L CNG	28-7	S138 - 5.4L Natural Gas Vehicle (NGV)	26-8
S129 - 5.4L Natural Gas Vehicle (NGV)	26-5	S138 - 5.4L supercharged	27-9
S129 - 5.4L supercharged	27-6	S139 - 4.2L	23-9
S130	93-1	S139 - 4.6L	24-9
S131 - 4.2L	23-5	S139 - 5.4L	25-9
S131 - 4.6L	24-5	S139 - 5.4L Bi-Fuel	22-9
S131 - 5.4L	25-5	S139 - 5.4L CNG	28-13
S131 - 5.4L Bi-Fuel	22-5	S139 - 5.4L Natural Gas Vehicle (NGV)	26-9
S131 - 5.4L CNG	28-7	S140 - 4.2L	23-10
S131 - 5.4L Natural Gas Vehicle (NGV)	26-5	S140 - 4.6L	24-10
S131 - 5.4L supercharged	27-6	S140 - 5.4L	25-10
S132 - 4.2L	23-8	S140 - 5.4L Bi-Fuel	22-10
S132 - 4.6L	24-8	S140 - 5.4L CNG	28-16

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S140 – 5.4L Natural Gas Vehicle (NGV) . . . . .	26–10	S155 – 5.4L CNG . . . . .	28–10
S140 – 5.4L supercharged . . . . .	27–11	S155 – 5.4L Natural Gas Vehicle (NGV) . . . . .	26–6
S141 – 4.2L . . . . .	23–10	S155 – 5.4L supercharged . . . . .	27–7
S141 – 4.6L . . . . .	24–10	S156 . . . . .	14–3
S141 – 5.4L . . . . .	25–10	S157 . . . . .	14–3
S141 – 5.4L Bi-Fuel . . . . .	22–10	S158 . . . . .	13–8
S141 – 5.4L CNG . . . . .	28–16	S159 . . . . .	26–9
S141 – 5.4L Natural Gas Vehicle (NGV) . . . . .	26–10	S160 . . . . .	90–5
S141 – 5.4L supercharged . . . . .	27–11	S161 . . . . .	13–14
S142 – with Electronic Shift On the Fly (ESOF) . . . . .	34–3	S162 . . . . .	13–14
S142 – with Mechanical Shift On the Fly (MSOF) . . . . .	34–6	S170 . . . . .	60–3
S143 – 4.2L . . . . .	23–10	S171 . . . . .	13–3
S143 – 4.6L . . . . .	24–10	S172 . . . . .	10–5
S143 – 5.4L . . . . .	25–10	S175 . . . . .	10–5
S143 – 5.4L Bi-Fuel . . . . .	22–10	S177 . . . . .	28–18
S143 – 5.4L CNG . . . . .	28–16	S179 . . . . .	14–3
S143 – 5.4L Natural Gas Vehicle (NGV) . . . . .	26–10	S181 . . . . .	14–3
S143 – 5.4L supercharged . . . . .	27–11	S183 . . . . .	28–17
S144 – 5.4L supercharged . . . . .	27–10	S185 . . . . .	28–17
S146 . . . . .	81–2	S187 . . . . .	28–9
S147 . . . . .	86–2	S189 . . . . .	28–14
S148 . . . . .	90–3	S191 . . . . .	28–14
S149 . . . . .	90–3	S197 . . . . .	27–9
S151 – 5.4L supercharged . . . . .	27–10	S198 . . . . .	20–2
S153 – G102 . . . . .	10–2	S199 . . . . .	10–1
S154 – 4.2L . . . . .	23–6	S199 . . . . .	10–6
S154 – 4.6L . . . . .	24–6	S200 . . . . .	10–7
S154 – 5.4L . . . . .	25–6	S201 . . . . .	10–7
S154 – 5.4L Bi-Fuel . . . . .	22–6	S202 . . . . .	10–7
S154 – 5.4L CNG . . . . .	28–10	S203 . . . . .	10–8
S154 – 5.4L Natural Gas Vehicle (NGV) . . . . .	26–6	S204 . . . . .	10–8
S154 – 5.4L supercharged . . . . .	27–7	S205 . . . . .	10–11
S154 – 5.4L supercharged . . . . .	23–6	S207 . . . . .	10–9
S154 – 5.4L supercharged . . . . .	24–6	S208 . . . . .	10–9
S154 – 5.4L supercharged . . . . .	25–6	S209 . . . . .	10–10
S154 – 5.4L supercharged . . . . .	22–6	S210 . . . . .	130–6

S211	130-6	S246	90-2
S212	13-2	S247	90-2
S213	13-5	S248 – Regular cab, Super cab	100-3
S214	13-4	S248 – Supercrew, Harley Davidson	100-4
S215	13-4	S252	10-8
S217	132-4	S255 – Supercrew, Without Rear Seat Entertainment (RSE) system	130-10
S218	85-2	S255 – Supercrew, With Rear Seat Entertainment (RSE) system	130-8
S219	132-4	S257 – Supercrew, Without Rear Seat Entertainment (RSE) system	130-10
S220	13-9	S257 – Supercrew, With Rear Seat Entertainment (RSE) system	130-8
S221	13-9	S259	13-11
S222	13-10	S260	10-14
S224	13-12	S261	66-1
S225	13-13	S265	13-10
S226	93-1	S268	66-2
S227	13-15	S269	66-1
S228	13-16	S270	13-19
S229	14-2	S271	10-14
S230 – Regular cab, Super cab	100-3	S272	100-5
S230 – Supercrew, Harley Davidson	100-4	S273	110-1
S231	90-4	S274	13-9
S232	60-4	S280	71-1
S233	13-8	S286	55-3
S234	110-1	S289	13-8
S234	117-3	S290	13-16
S235	110-1	S291	14-4
S235	117-3	S292	14-4
S236	13-8	S297	90-5
S237	13-13	S298	13-4
S238	34-3	S301	10-14
S239	89-2	S302	26-9
S240	89-2	S303	26-11
S	13-2	S304 – Super cab, with heated seats	10-17
S	71-1	S304	10-13
S	71-4	S305	89-3
S	13-19		
S	87-2		

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S306 – Super cab, with heated seats	10-17	S500	10-11
S306	10-13	S501	10-12
S307	10-7	S503	124-1
S311	13-18	S600	10-12
S313	10-10	S601	110-1
S320	13-5	S602	110-1
S321 – Super cab, with heated seats	10-17	S900	89-3
S321	10-15	S901	89-5
S322	71-3	S902	10-15
S330	132-4	S902	10-16
S340	89-6	S903	89-5
S341	89-6	S904	89-3
S342	13-18	S911	10-15
S343	10-16	S920	132-5
S350	13-11	S921	132-5
S351	132-2	S1001	13-1
S353	10-17	S1002	13-1
S360	132-4	S1003 – 4.2L	23-3
S361	132-5	S1003 – 4.6L	24-3
S362	132-5	S1003 – 5.4L	25-3
S372	132-4	S1003 – 5.4L CNG	28-5
S373	132-5	S1003 – 5.4L Natural Gas Vehicle (NGV)	26-3
S374	132-5	S1003 – 5.4L supercharged	27-4
S375	132-5	S4001	22-5
S376	132-5	S4003	14-3
S377	132-5	S4004	14-3
S378	10-10	S4005 – 5.4L Bi-Fuel, CNG	22-14
S379	13-8	S4005 – 5.4L Bi-Fuel, LPG	22-15
S400	10-4	S4006	22-15
S401	10-5	S4007 – 5.4L Bi-Fuel, CNG	22-14
S403	13-12	S4007 – 5.4L Bi-Fuel, LPG	22-15
S405	93-1	S4008 – 5.4L Bi-Fuel, CNG	22-14
	95-3	S4008 – 5.4L Bi-Fuel, LPG	22-15
	95-3	S4009 – 5.4L Bi-Fuel, CNG	22-14
	95-4	S4009 – 5.4L Bi-Fuel, LPG	22-15
	10-10	S4010	22-15

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S4011	22-14	Speaker, left rear (18808) – Supercrew, With Rear Seat	
S4012	22-14	Entertainment (RSE) system	130-8
S4013	22-15	Speaker, right front (18808) – Harley Davidson	130-6
S4014	22-15	Speaker, right front (18808) – MP3 player	130-2
S4015	22-15	Speaker, right front (18808) – Regular cab, Super cab	130-4
S4016	22-15	Speaker, right front (18808) – Supercrew, Without Rear Seat	
S4017	22-16	Entertainment (RSE) system	130-10
S4018	22-6	Speaker, right front (18808) – Supercrew, With Rear Seat	
S4019	22-6	Entertainment (RSE) system	130-8
S4020	22-8	Speaker, right rear (18808) – Harley Davidson	130-6
S4021	22-8	Speaker, right rear (18808) – MP3 player	130-2
S4032	21-6	Speaker, right rear (18808) – Regular cab, Super cab	130-4
S4033	21-6	Speaker, right rear (18808) – Supercrew, Without Rear Seat	
S4034	10-1	Entertainment (RSE) system	130-10
S4035	10-1	Speaker, right rear (18808) – Supercrew, With Rear Seat	
S4036	10-1	Entertainment (RSE) system	130-8
S4040	22-12	Speed control servo (9C735)	31-3
Safety belt buckle switch (10B924)	66-1	Starter motor (11002) – Automatic	20-2
Seat back heater, left front	119-2	Starter motor (11002) – Manual	20-1
Seat back heater, right front	119-3	Starter relay (11450) – Automatic	20-2
Seat cushion heater, left front	119-2	Starter relay (11450) – Manual	20-1
Seat cushion heater, right front	119-3	Steering wheel/speed control switch (9F924)	31-2
Seat heater switch, driver side	119-2	Sunload sensor (19E663)	55-3
Seat heater switch, passenger side	119-3	Supercharger bypass solenoid	27-12
Speaker, left front (18808) – Harley Davidson	130-6	Tank valve 1	22-14
Speaker, left front (18808) – MP3 player	130-2	Tank valve	28-14
Speaker, left front (18808) – Regular cab, Super cab	130-4	Tank valve diode	22-14
Speaker, left front (18808) – Supercrew, Without Rear Seat		Temperature blend door actuator (19E616)	53-1
Entertainment (RSE) system	130-10	Temperature blend door actuator (19E616)	54-3
Speaker, left front (18808) – Supercrew, With Rear Seat		Temperature blend door actuator (19E616)	55-4
Entertainment (RSE) system	130-8	Throttle Position Sensor (TPS) (9B989) – 4.2L	23-8
Speaker, left rear (18808) – Harley Davidson	130-6	Throttle Position Sensor (TPS) (9B989) – 4.6L	24-8
Speaker, left rear (18808) – MP3 player	130-2	Throttle Position Sensor (TPS) (9B989) – 5.4L	25-8
Speaker, left rear (18808) – Regular cab, Super cab	130-4	Throttle Position Sensor (TPS) (9B989) – 5.4L Bi-Fuel	22-8
Speaker, left rear (18808) – Supercrew, Without Rear Seat		Throttle Position Sensor (TPS) (9B989) – 5.4L CNG	28-11
Entertainment (RSE) system	130-10		

Throttle Position Sensor (TPS) (9B989) – 5.4L Natural Gas Vehicle (NGV) ..... 26–8

Throttle Position Sensor (TPS) (9B989) – 5.4L supercharged .... 27–9

Trailer tow connector (15A416) ..... 95–3

Trailer tow relay, battery charge ..... 95–3

Trailer tow relay, parking lamp ..... 95–4

Trailer tow relay, reversing lamp ..... 95–4

Transfer case assembly – with Electronic Shift On the Fly (ESOF) ..... 34–4

Transfer case assembly – with Mechanical Shift On the Fly (MSOF) ..... 34–6

Transfer case electric clutch relay ..... 34–4

Transfer case relay module ..... 34–4

Transfer case speed sensor – 4.2L ..... 23–8

Transfer case speed sensor – 4.6L ..... 24–8

Transfer case speed sensor – 5.4L ..... 25–8

Transfer case speed sensor – 5.4L Bi–Fuel ..... 22–8

Transfer case speed sensor – 5.4L CNG ..... 28–11

Transmission control switch – 4R100 ..... 30–3

Transmission control switch – 4R70W ..... 29–3

Turbine shaft speed (TSS) sensor (7M101) ..... 30–4

Vanity mirror lamp, left (04100) ..... 89–3

Vanity mirror lamp, right (04100) ..... 89–3

Video cassette player ..... 132–2

Video display ..... 132–2

Wheel speed sensor, left front (2C205) ..... 42–2

Wheel speed sensor, right front (2C204) ..... 42–2

Window adjust switch, left rear (14A412) ..... 100–5

Window adjust switch, right rear (14A412) ..... 100–5

Windshield washer pump motor (17618) ..... 81–2

Windshield washer relay ..... 81–2

Windshield wiper motor (17508) ..... 81–2

Windshield wiper motor (17508) ..... 81–2

Windshield wiper motor (17508) ..... 81–2

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### Note

All wiring connections between components are shown exactly as they exist in the vehicles. It is important to realize, however, that no attempt has been made on the schematic to represent components and wiring as they physically appear on the vehicle. For example, a 4-foot length of wire is treated no differently in a schematic from one which is only a few inches long. Furthermore, to aid in understanding electrical (electronic) operation, wiring inside complicated components has been simplified.

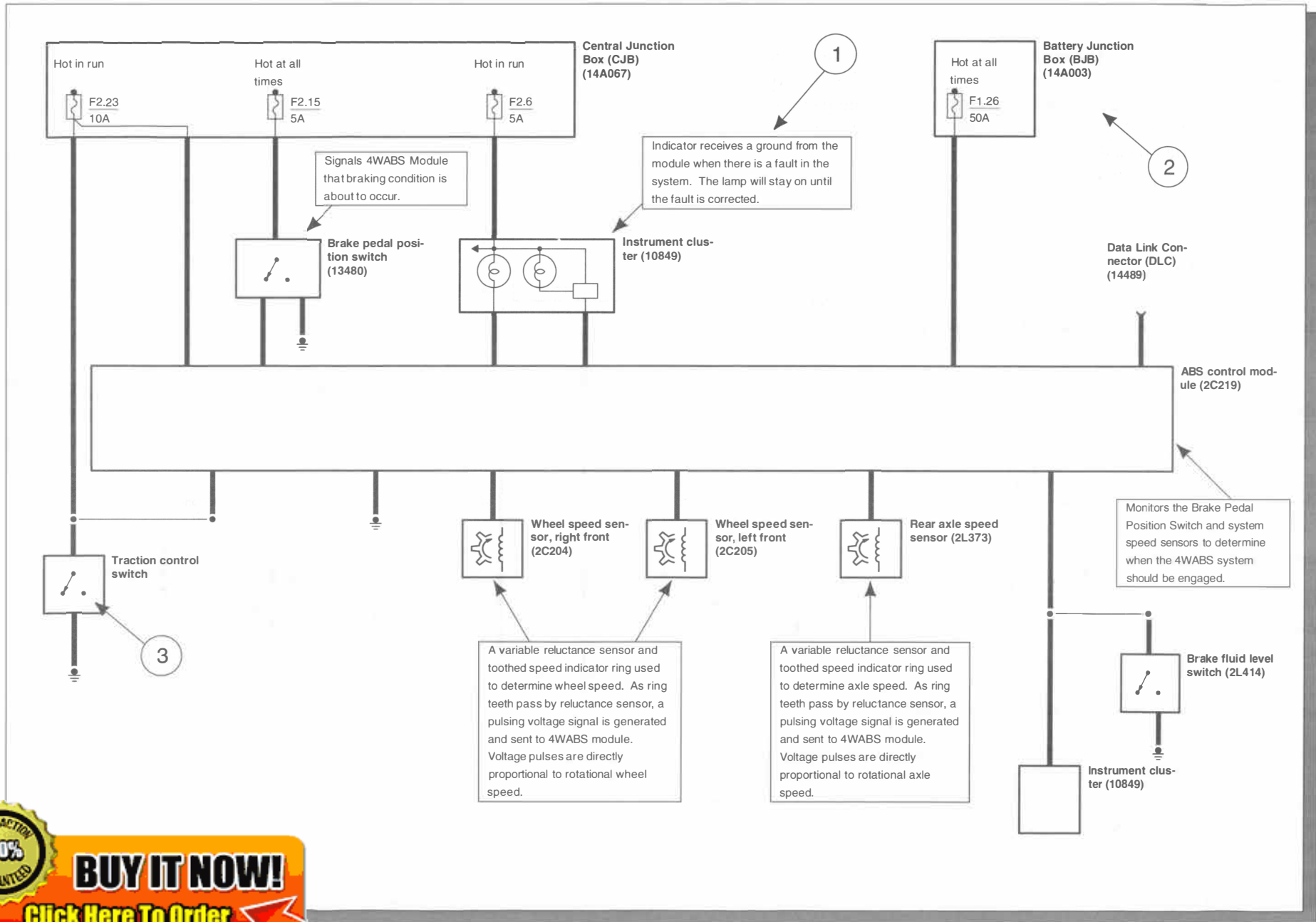
### Complete Circuit Operation

Each circuit is shown completely and independently in one cell. Other components which are connected to the circuit may not be shown unless they influence the circuit operation.

### System Overview

Each major vehicle system includes a complete system overview prior to each set of schematic pages. It is important to realize that this is only a high level overview of the complete system connectivity. It includes component operational information (1), component name and base part number (2), and basic component internals (3). It does not include specific circuit information, connector or pin numbers, splices or grounds. That information is found on the schematic pages.





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**Current Flow (1)**

Each cell normally starts with the component that powers the circuit, such as a fuse or the ignition switch. Current flow is shown from the power source at the top of the page to ground at the bottom of the page. In order to concentrate on the essential parts, power supply and ground connections are sometimes simplified by a dashed line in the schematics. A full representation of the power supply of a fuse or the power distribution from a fuse to various components is given in cell 13 "Power Distribution". Full representation of the ground connections are shown in cell 10 "Grounds".

**Switch Positions (2)**

Within the schematic, all switches, sensors and relays are shown "at rest" (as if the Ignition Switch were OFF).

**Splices (3)**

A dashed line indicates that the splice is not shown completely. A reference is given to the page where the splice appears in full. It is also listed in the Index.

**Component Referencing (4)**

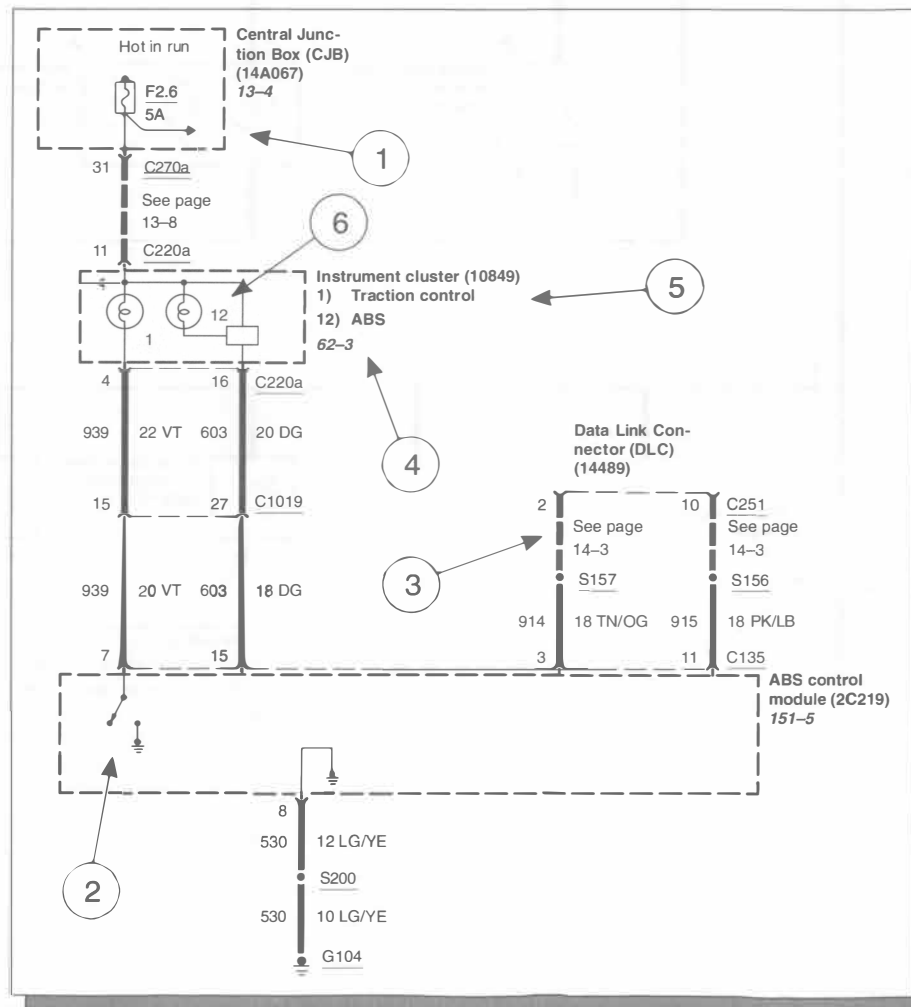
Each component on a schematic has a reference to the component location view or the page where it is shown completely. It is located to the right of each component.

**Component Names, Notes and Base Part Numbers (5)**

Component names are placed on the right hand side of each component. Any notes that describe switch positions or operating conditions follow the name. Descriptions of the internals of the component are also included here. Where the component appears in full is listed in the Index. The ( ) in parentheses next to or under a component name indicates where the component appears in full. The ( ) near any place the component name

**Internal Name and Function Identification Numbers (6)**

Some components on each page have internal symbols with an identification number located to the right. You can identify the internal symbol or function by finding the corresponding number under the component name.



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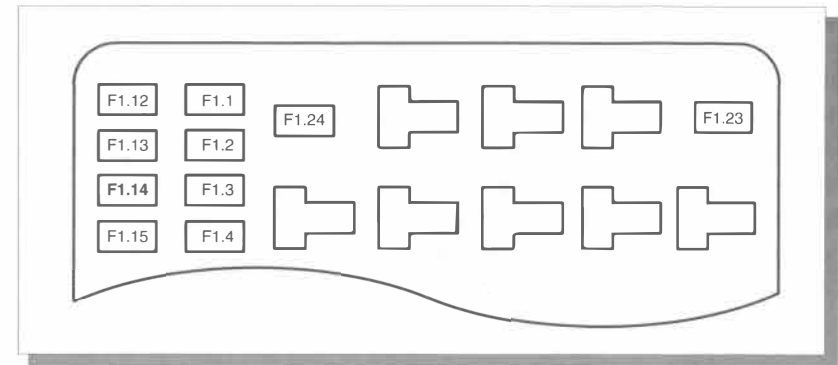
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## Fuse and Relay Information

Cell 11 “Fuse and Relay Information” contains a view of the fuse-/relay box in which all fuses and relays are identified.

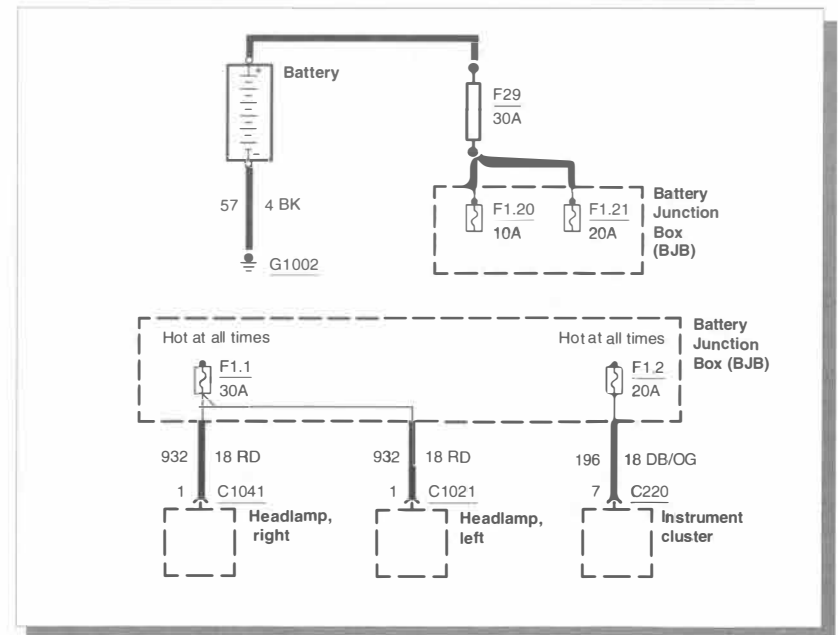
## Fuse and Relay Numbering and Naming

Fuse and relay numbering and naming follow the indication of the fuse panel cover. In addition, a prefix precedes the fuse number to facilitate finding the fuse in the Component Location Charts, e.g. “F1.” precedes Battery Junction Box fuses, and “F2.” precedes Central Junction Box fuses.



## Power Distribution

Cell 13 “Power Distribution” shows the current feed circuit. The current path is shown from the battery to the ignition switch and to all fuses. It also shows the circuits protected by each fuse. The circuit is traced from the fuse to the component. All details (wires, splices, connectors) between the fuse and the first component are shown.



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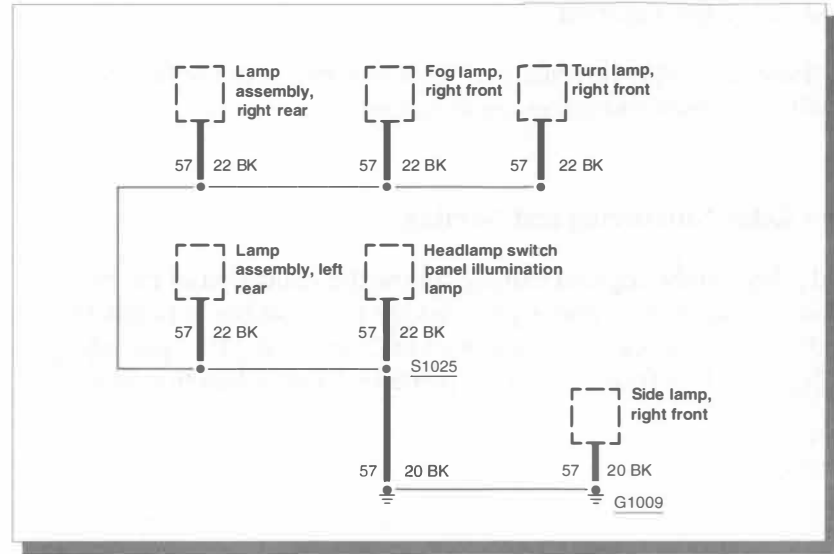
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**Ground Distribution**

Cell 10 “Grounds” contains the schematics that show the complete details for each ground connection or main ground splice. This is useful in diagnosing a problem affecting several components at once (poor ground connection or ground splice). All details (wires, splices, connectors) between the ground point and the components are shown. These ground connection details are shown here in order to keep the individual cell schematics as uncluttered as possible.



**Component and Connector Information**

Cell 152 “Component Location Charts” helps the user find where the various items depicted on the schematic can physically be found on the vehicle. A brief written description of the location is given, along with a reference to the component location views.

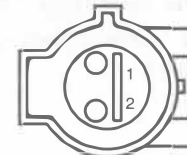
Cell 151 “Component Location Views” show the components and their connecting wires as they can be found on the vehicle.

Cell 150 “Connector Views” show the views of the pins and/or cavities of all connectors. The pin and cavity sides are shown separately as if the connector were disconnected. The color of the connector housing is indicated next to the connector number when available. The harness causal number is located above the connector view and below the connector number. The circuit function charts are located below each connector. The wiring harness designations are listed in cell 152 “Component Location Charts”.

**C150**

**12A581**

Wheel speed sensor, left front (2C205)



F02085

Pin	Circuit	Circuit Function
1	522 (TN/BK)	Wheel speed sensor, left front (2C205) -
2	521 (TN/OG)	Wheel speed sensor, left front (2C205) +

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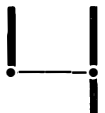


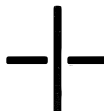







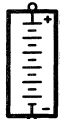

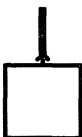


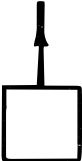





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**WARNINGS**

- *Always wear safety glasses for eye protection.*
- *Use safety stands whenever a procedure requires being under a vehicle.*
- *Be sure that the **Ignition Switch** is always in the OFF position, unless otherwise required by the procedure.*
- *Set the parking brake when working on any vehicle. An automatic transmission should be in PARK. A manual transmission should be in NEUTRAL.*
- *Operate the engine only in a well-ventilated area to avoid danger of carbon monoxide.*
- *Keep away from moving parts, especially the fan and belts, when the engine is running.*
- *To prevent serious burns, avoid contact with hot metal parts such as the radiator, exhaust manifold, tail pipe, catalytic converter and muffler.*
- *Do not allow flame or sparks near the battery. Gases are always present in and around the battery cell. An explosion could occur.*
- *Do not smoke when working on a vehicle.*
- *To avoid injury, always remove rings, watches, loose hanging jewelry and avoid wearing loose clothing.*



# 4-1 Symbols

	Distributed splice		Entire component		Resistor
	Crossed wiring without connection		Part of a component		Potentiometer (pressure or temperature)
	Splice		Component case directly attached to metal part of vehicle (ground)		Potentiometer (outside influence)
	Removable connection		Component with screw terminals		Battery
	Ground		Connector attached to component		Fuse
	Connector		Connector attached to component lead (pigtail)		Circuit breaker
	Female connector		Positive Temperature Coefficient (PTC)		Heating element, Conductor loop
	Male connector				

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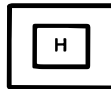
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Ignition coil assembly



Hall sensor



Antenna



Solenoid controlled valve or clutch solenoid



Air bag sliding contact (14A664)



Permanent magnet, one-speed-motor



Light emitting diode (LED)



Diode, current flows in direction of arrow



Permanent magnet, two-speed-motor



Capacitor



Transistor



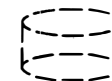
Rotational sensor



Variable capacitor



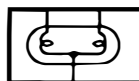
Lamp



Shield



Piezoelectric sensor



Bifilament lamp



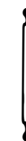
Horn or speaker



Coil



Gauges



Fusible link

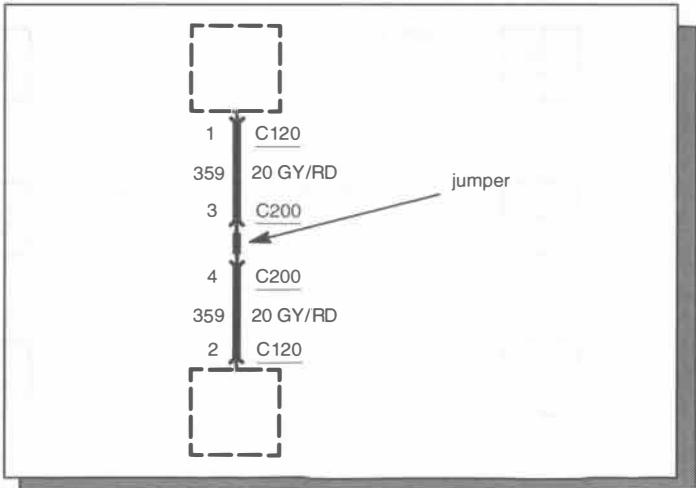
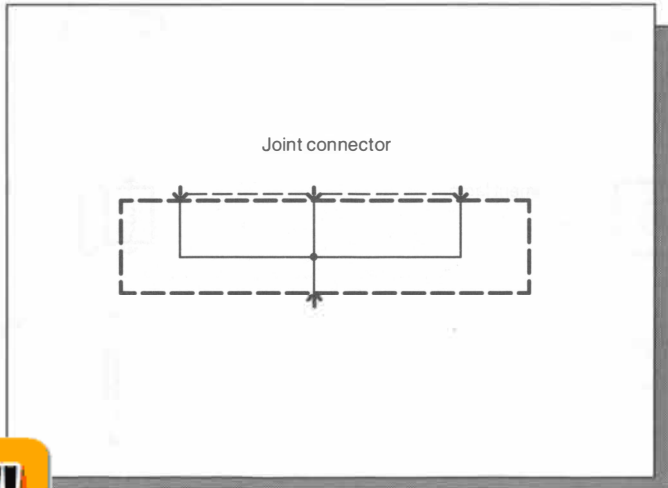
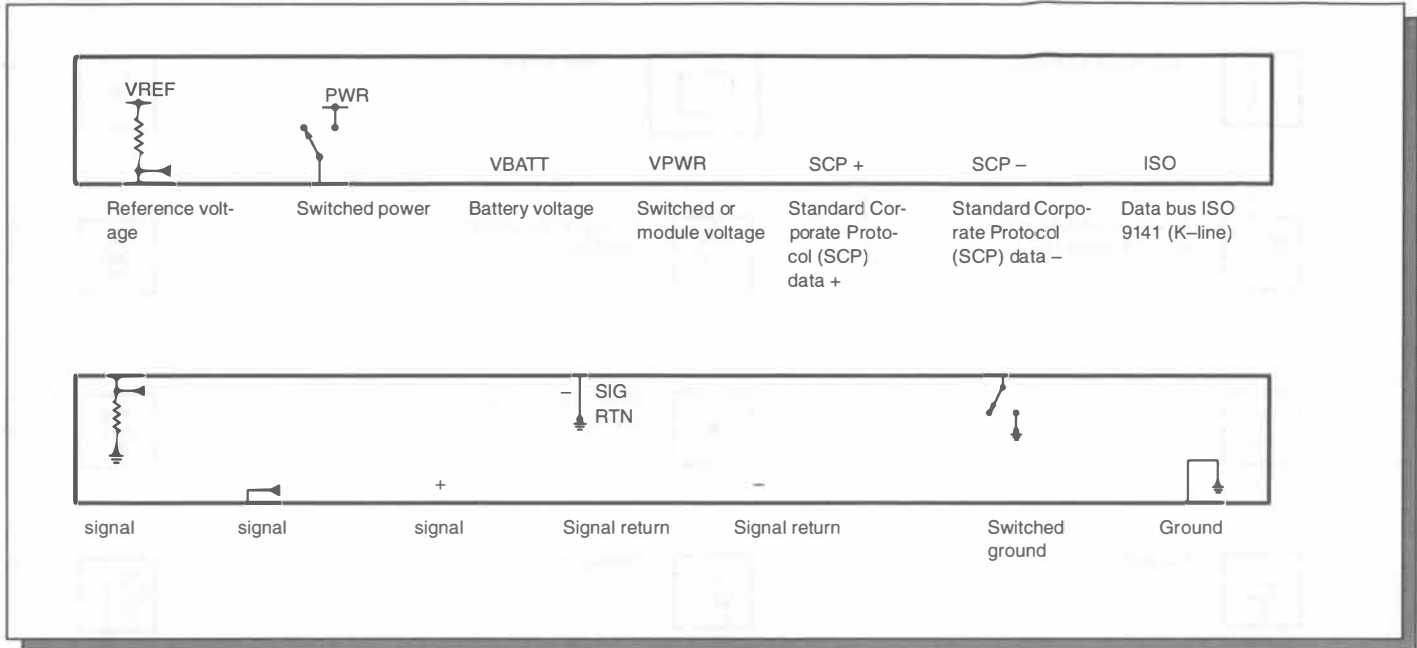
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# 4-3 Symbols

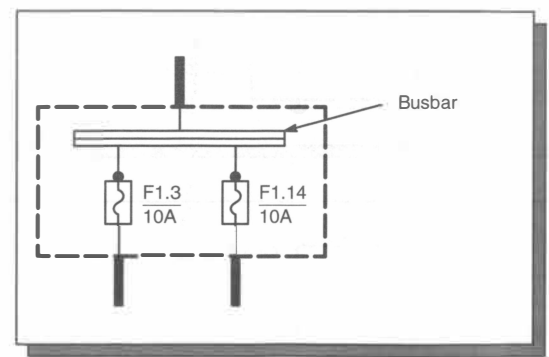
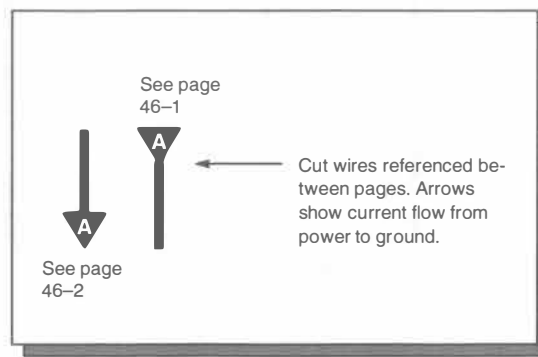
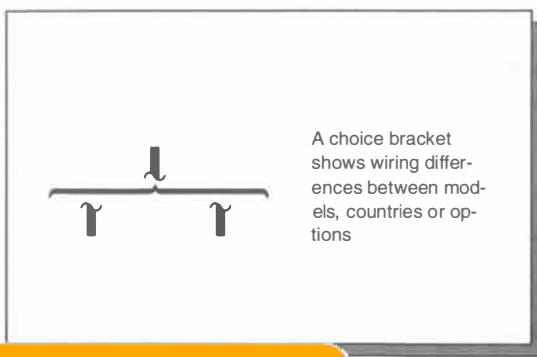
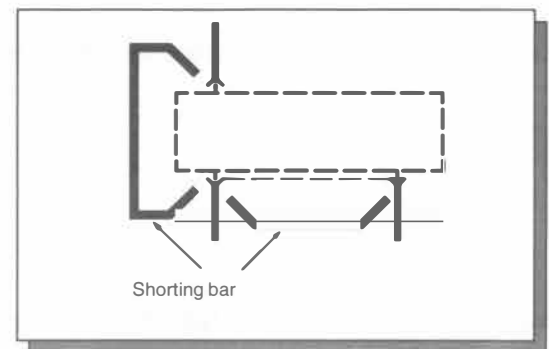
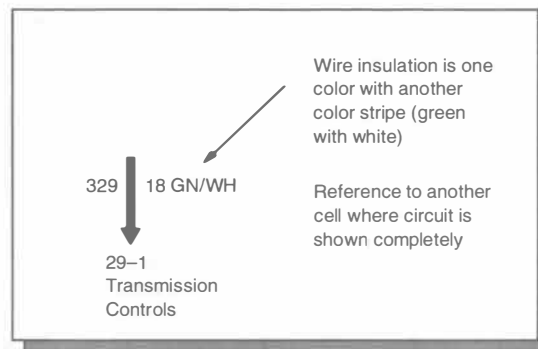
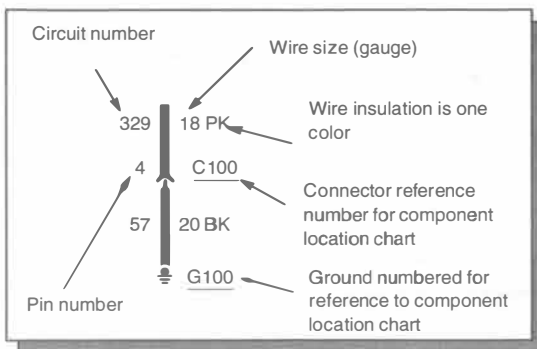
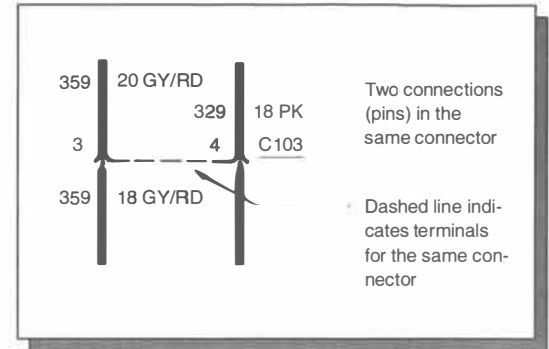
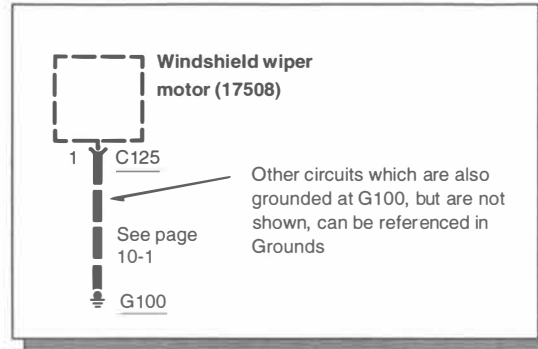
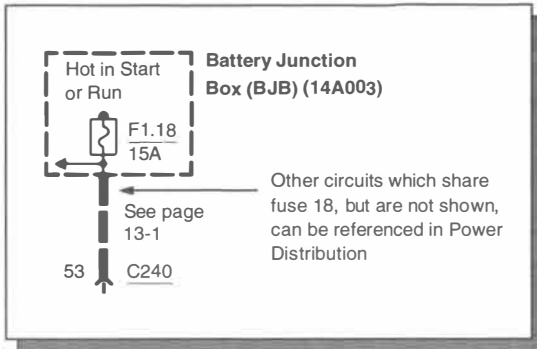
Wire colors	
BK	Black
BN	Brown
BU	Blue
DB	Dark blue
DG	Dark green
GN	Green
GY	Gray
LB	Light blue
LG	Light green
NA	Natural
OG	Orange
PK	Pink
RD	Red
SR	Silver
TN	Tan
VT	Violet
WH	White
YE	Yellow



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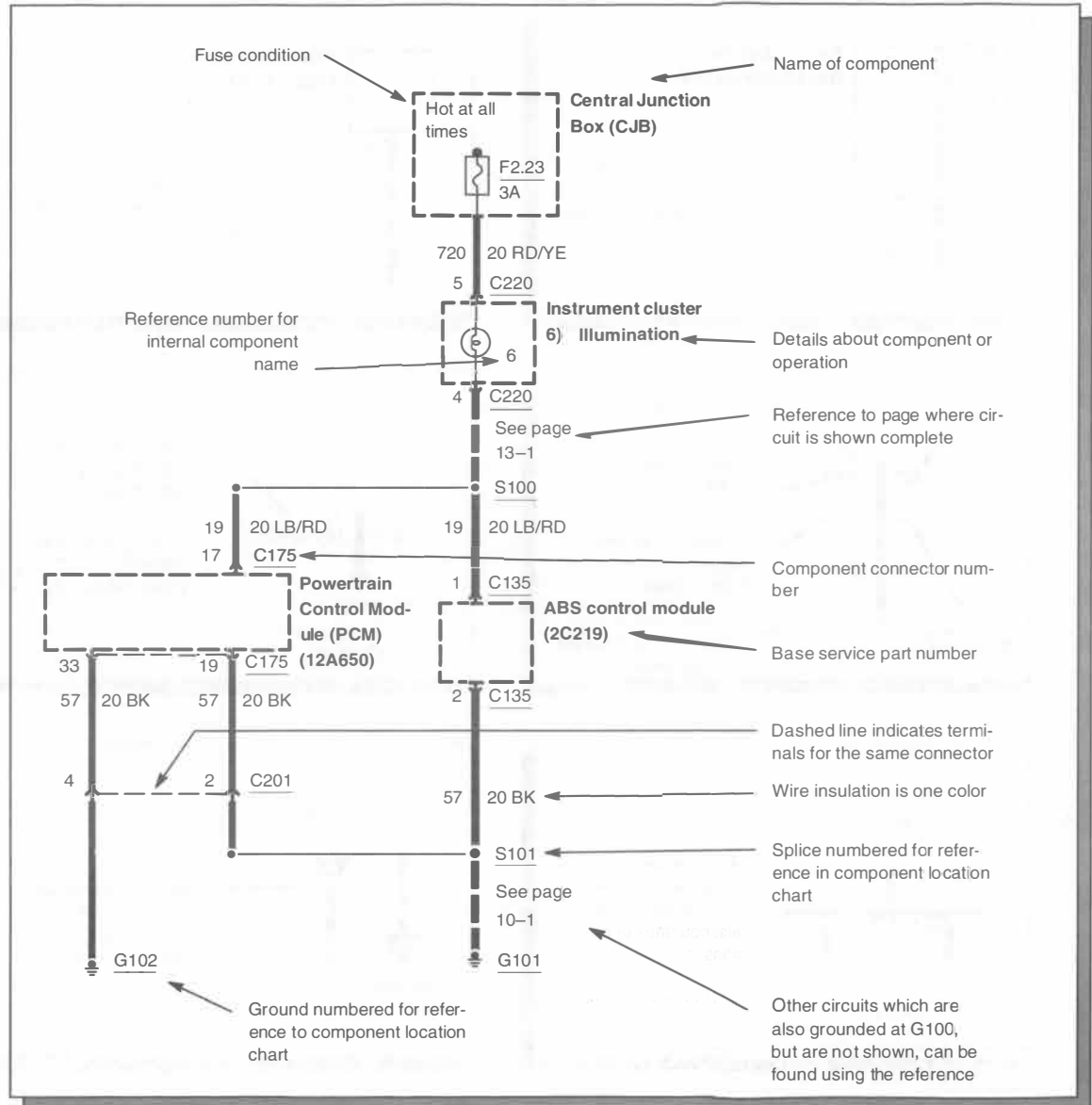
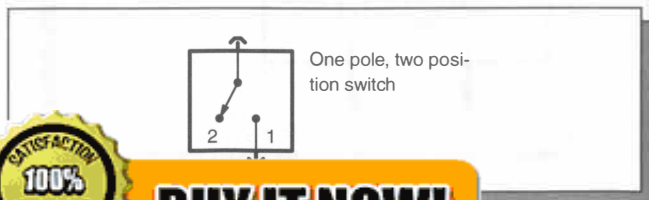
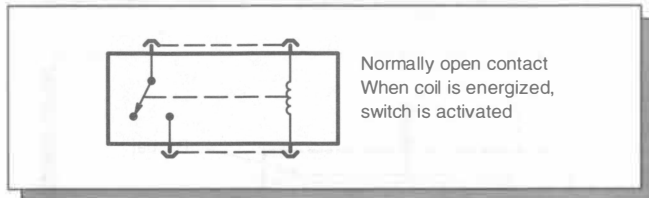
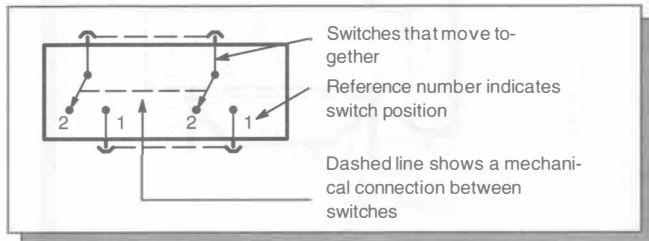
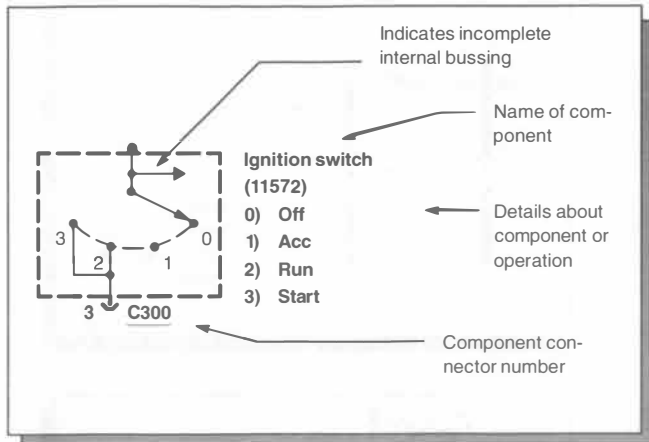


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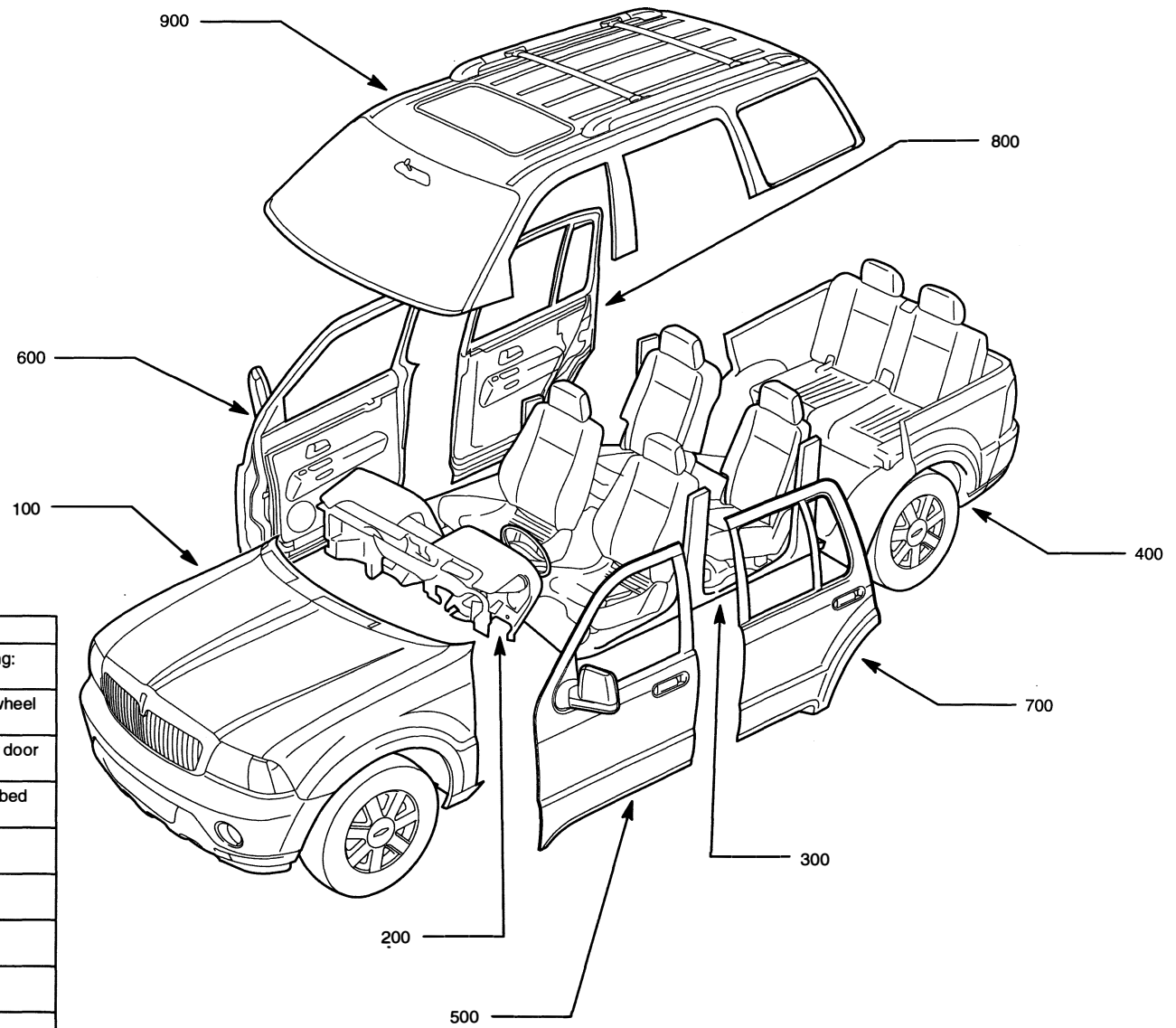
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The first digit of every connector, ground, and splice number used in this publication references its location within the vehicle.

The chart below describes the different sections of the vehicle, and lists the number associated with each.



Number	Location
100	Engine compartment, Powertrain (including: axle/differential/transmission)
200	Instrument Panel and Console, Steering wheel assembly
300	From instrument panel to rear seat, below door trim panel
400	behind rear seats, to rear bumper; Truck bed
500	driver door
600	passenger door, front
700	passenger door, left rear
800	passenger door, right rear
	Above door trim panel and headliner

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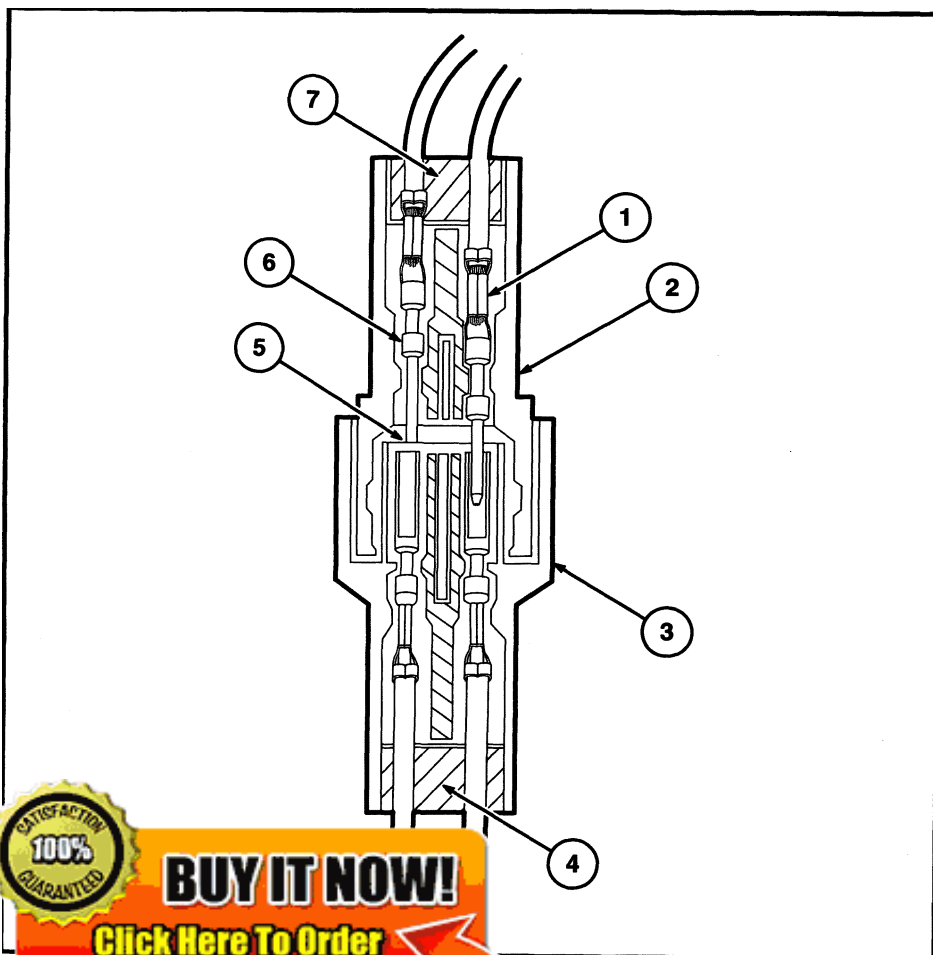
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### Troubleshooting wiring harness and connector hidden concerns

The following illustrations are known examples of wiring harness, splices and connectors that will create intermittent electrical concerns. The concerns are hidden and can only be discovered by a physical evaluation as shown in each illustration.

NOTE: Several components, such as the PCM, utilize gold plated terminals in their connections to the wiring harness. If those terminals need to be replaced, they must be replaced with a gold plated terminal.



### Terminal not properly seated

- 1 = Locked terminal
- 2 = Male half
- 3 = Female half
- 4 = Seal
- 5 = Intermittent contact
- 6 = Unlocked terminal (Hidden by wire seal)
- 7 = Seal

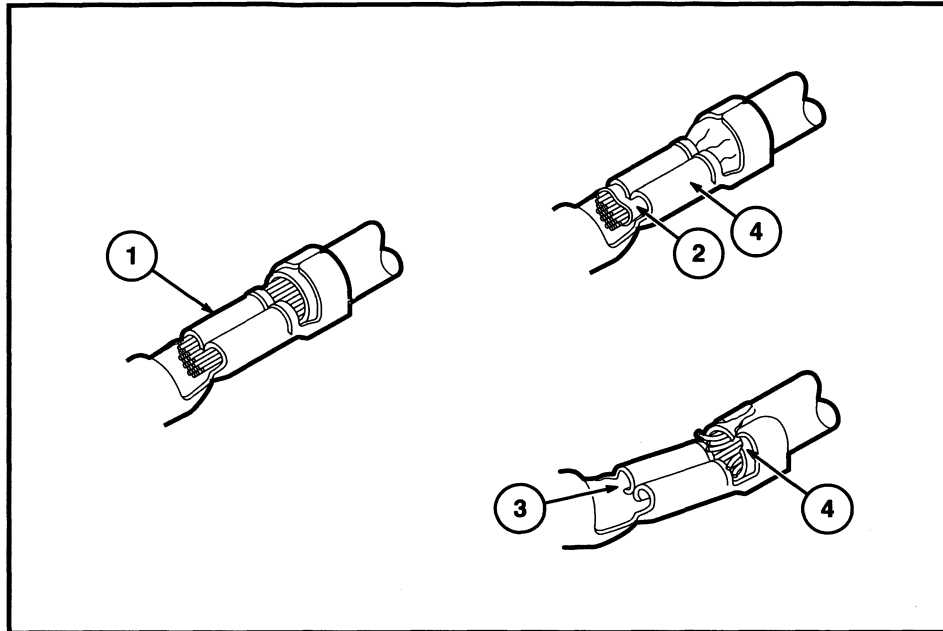
Check for unlocked terminals by pulling each wire at the end of the connector.

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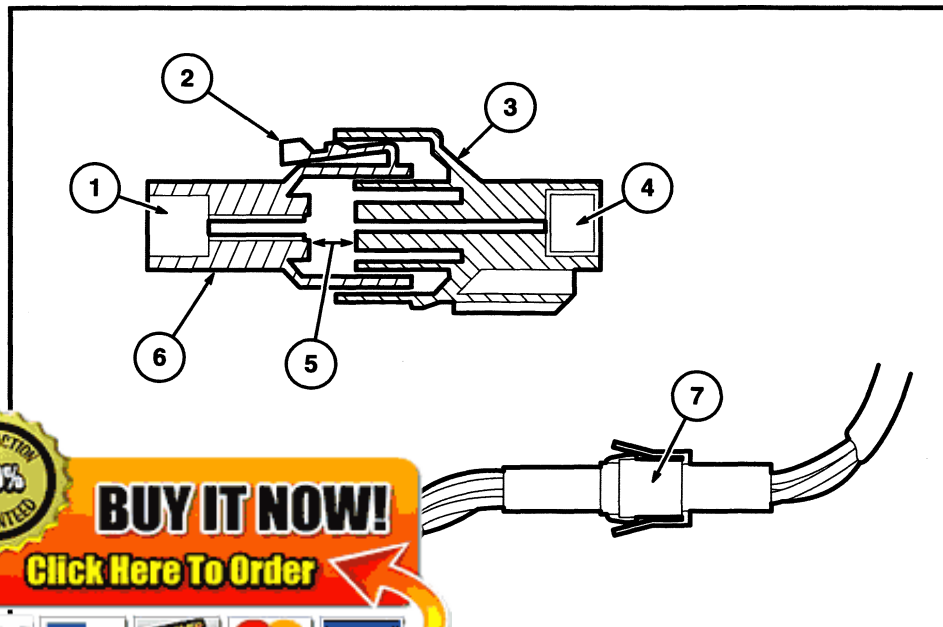
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**Defective insulation stripping**

- 1 = Proper crimp
- 2 = Insulation not removed
- 3 = Wire strands missing
- 4 = Intermittent signals through pierced insulation



**Partially mated connectors**

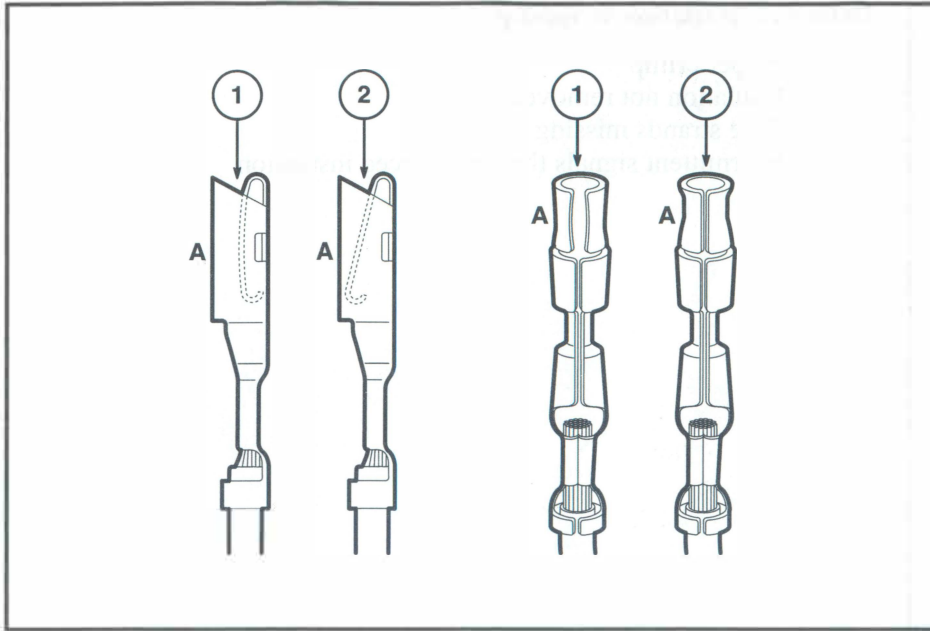
- 1 = Seal
- 2 = Displaced tab
- 3 = Female half
- 4 = Seal
- 5 = Intermittent contact
- 6 = Male half
- 7 = Intermittent contact

Lock may be displaced into an unlocked position; pull on the connector to verify the lock.

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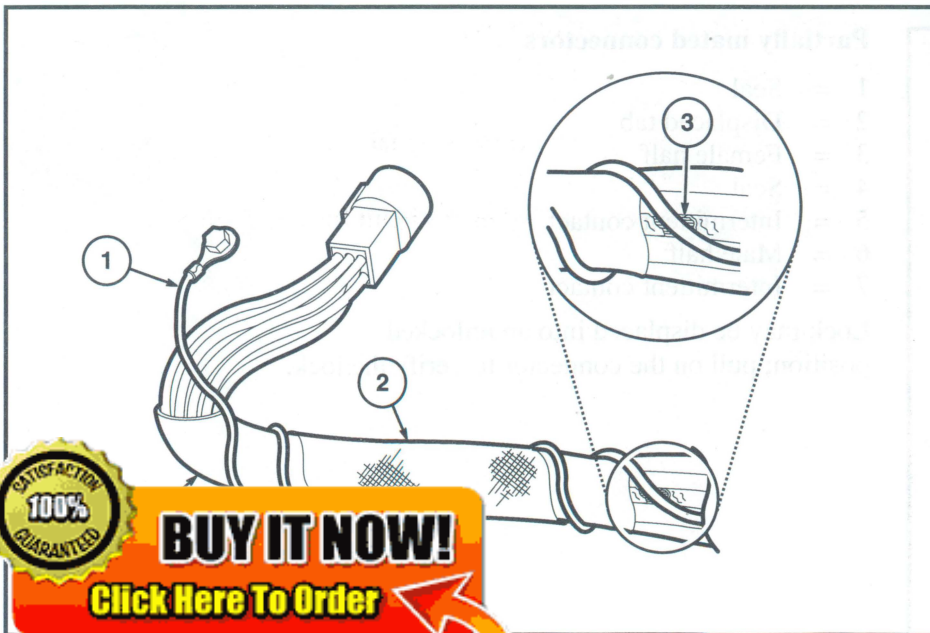
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### Deformed (enlarged) female terminals

- 1 = Enlarged
- 2 = Normal

Any probe entering the terminal may enlarge the contact spring opening creating an intermittent signal. Insert the correct mating terminal (Location A) from the service kit and feel for a loose fit.



### Electrical short inside the harness

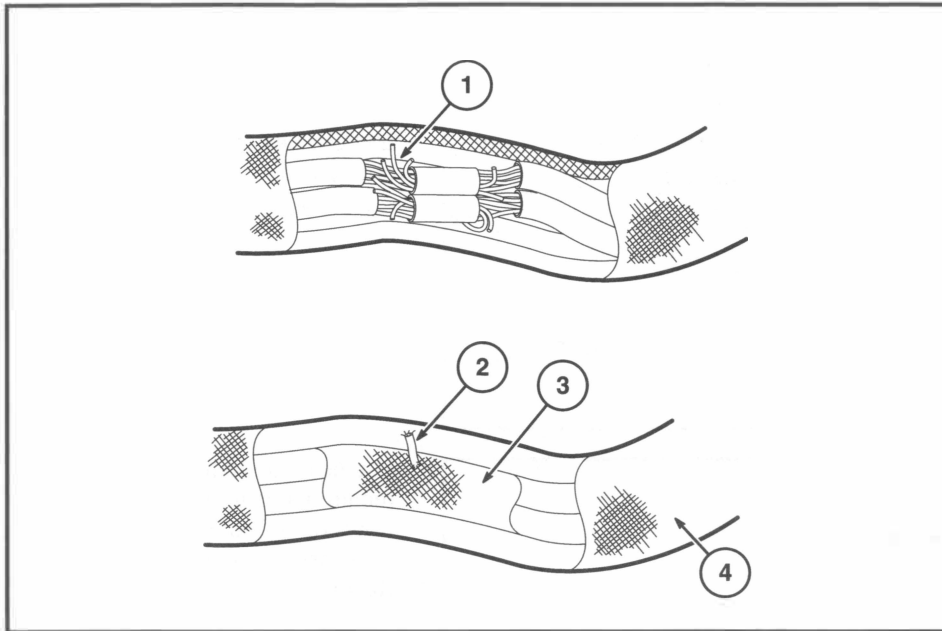
- 1 = Solder coated wire to ground
- 2 = Harness protective tape
- 3 = Intermittent short  
Solder coated wire pierced through the insulation of another circuit
- 4 = Grounding foil

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**Electrical short within the harness**

Splice tape removed

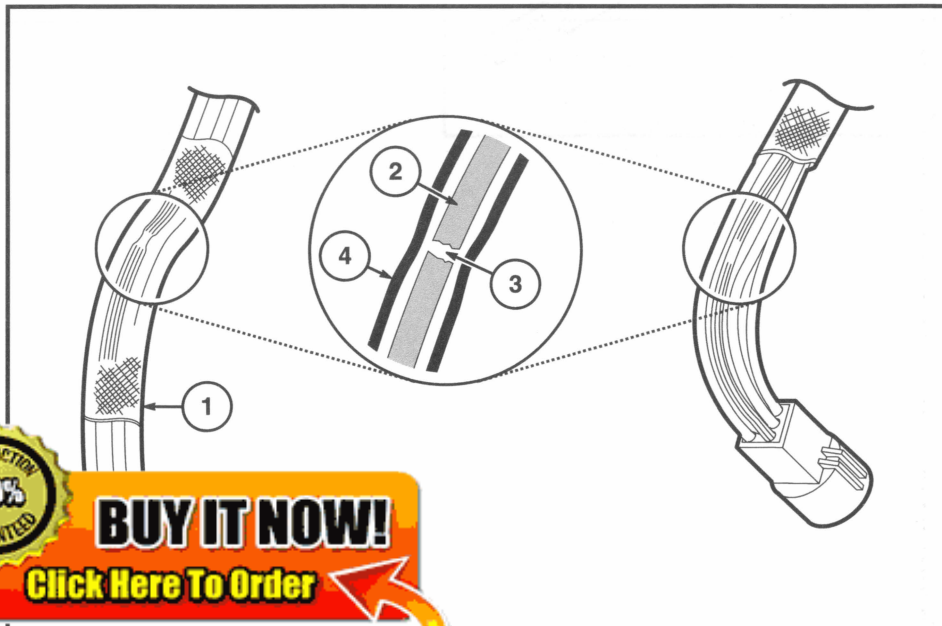
1 = Intermittent short

Splice covered

2 = Wire strand

3 = Splice tape

4 = Harness tape



**Broken wire strands in harness**

1 = Wiring harness tape

2 = Wiring strand

3 = Broken strands intermittent signal

4 = Circuit insulation

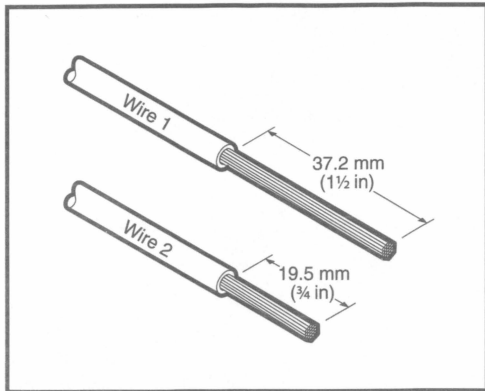
Remove the tape and flex/feel each circuit for a reduction in diameter at break.

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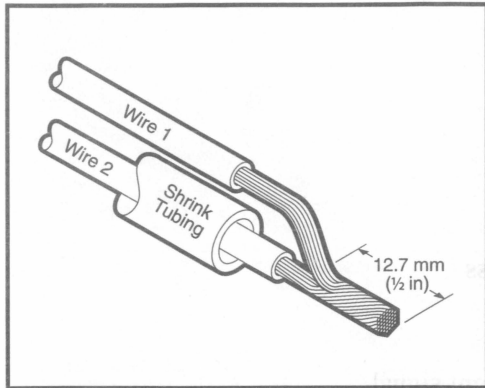
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Recommended splicing method



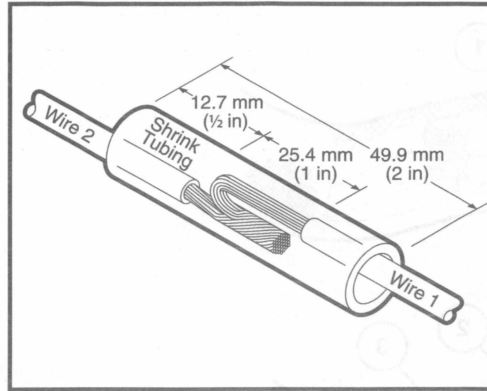
1. Disconnect battery ground cable.
2. Strip wires to appropriate length.



3. Install heat shrink tubing.
  4. Twist wires together.
  5. Solder wires together.
- NOTE:** Use rosin core mildly-activated (RMA) solder. Do not use acid core solder.

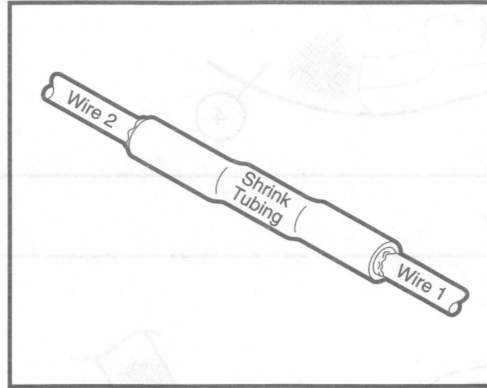


6. Bend Wire 1 back in a straight line.
- NOTE:** Wait for solder to cool before moving wires.



7. Evenly position heat shrink tubing over wire repair.

**NOTE:** Overlap tubing on both wires.



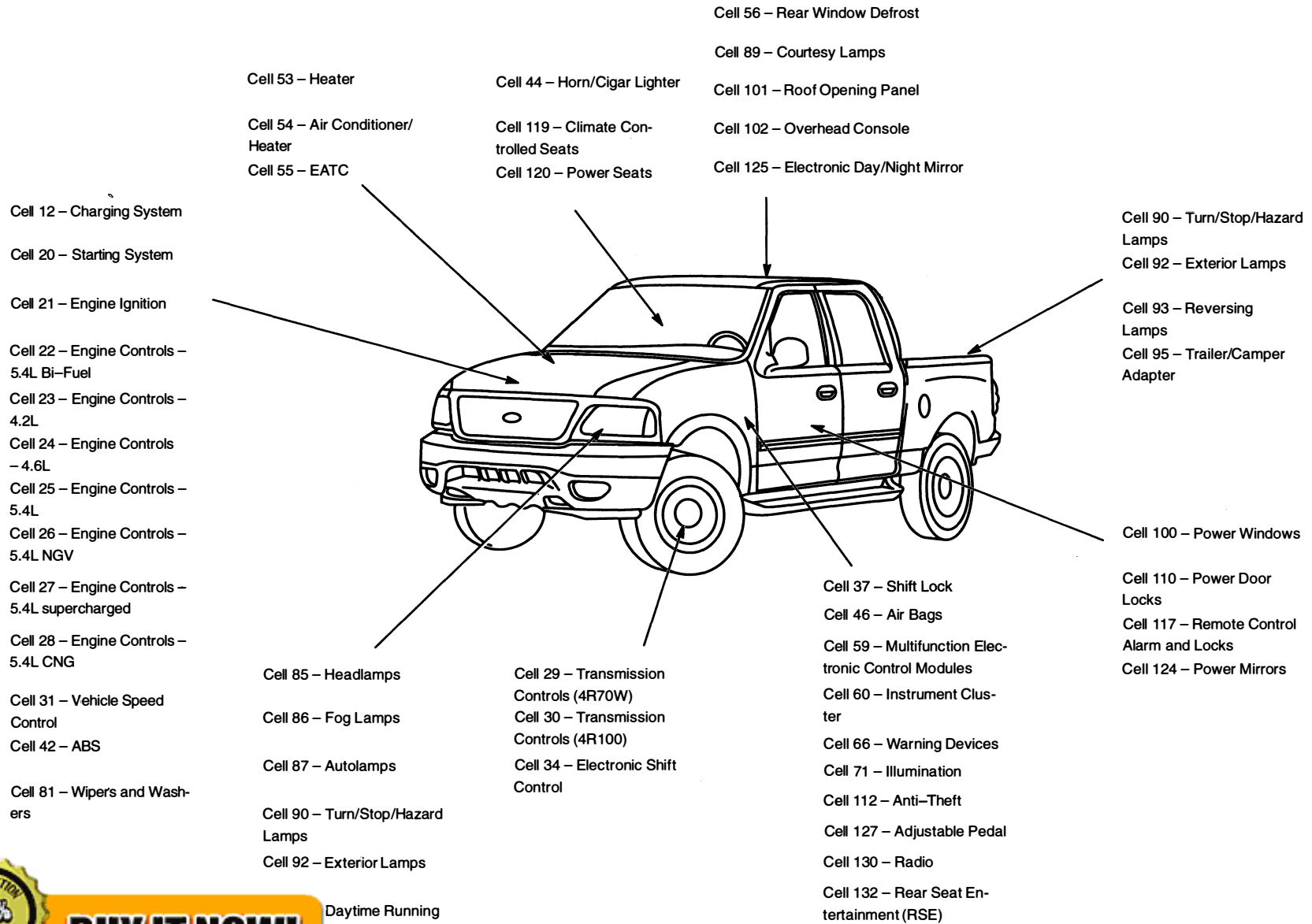
8. Use heat gun to heat the repaired area until adhesive flows out of both ends of heat shrink tubing.
9. Reconnect battery ground cable.

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# 8-1 Systems Overview

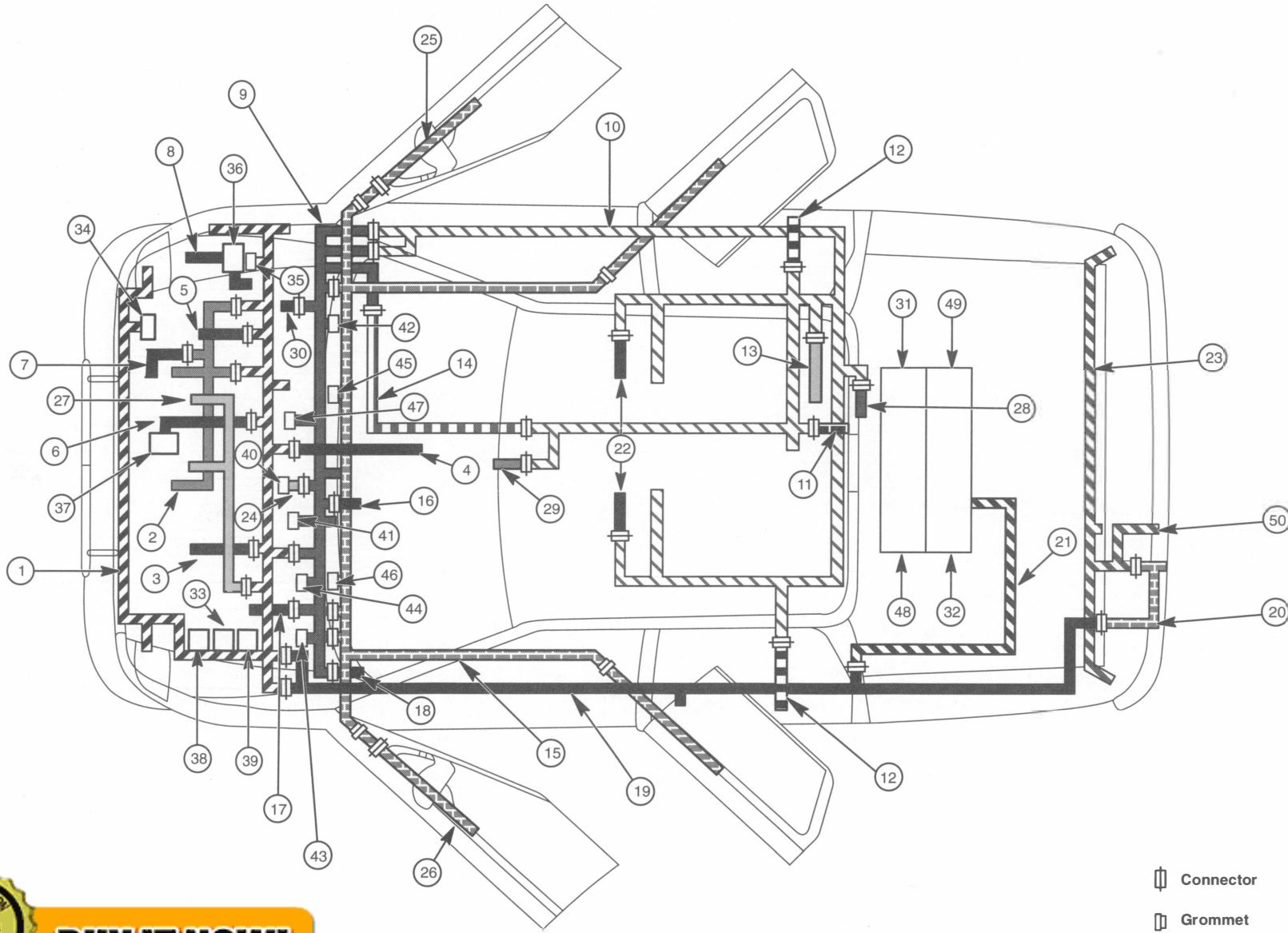


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# 9-1 Wiring Harness Overview



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Item	Part Number	Description
1	12A581	Wiring harness – Engine control sensor
2	12B637	Wiring harness – Engine control sensor and fuel charge
	9D930	Wiring harness – Fuel charge (4.2L)
3	12A690	Wiring harness – Engine control sensor extension
4	15525	Wiring harness – Back up lamp switch to rear lamp feed
5	14B110	Wiring Harness – Four-wheel drive relay to solenoid
6	14305	Wiring harness – Alternator rectifier system
7	14B102	Wiring harness – Temperature sensor
8	14B060	Wiring harness – Starter motor relay and battery ground
9	14401	Wiring harness – Main
10	14A504	Wiring harness – Seat belt retractor switch right
11	13A625	Wiring harness – High mounted stoplamp
12	14632	Wiring harness – Window regulator, right rear door
13	14687	Wiring harness – Back window regulator
14	14335	Wiring harness – Interior illumination
15	14A005	Wiring harness – Body main
16	15080	Wiring and socket assembly – Cigar lighter lamp
17	7A786	Wiring assembly – Transfer case four-wheel drive control
18	14A320	Wiring harness – Multifunction switch
19	14405	Wiring harness – Tail lamps
20	13A576	Wiring harness – Trailer lamp feed
21	14406	Wiring harness – Fuel tank sender
22	14B084	Wiring harness – Passenger, driver seat jumper
23	13A409	Wiring harness – Rear lamp connector
24	13K027	Wiring harness – Headlamp relay
25	14630	Wiring harness – Window regulator, right front door (Regular cab, Super cab)

Item	Part Number	Description
26	14631	Wiring harness – Window regulator, left front door (Regular cab, Super cab)
27	14B527	Wiring harness – Fuel injector jumper (5.4L CNG)
28	18C619	Wiring harness – Rear window heater
29	17K745	Wiring harness – Rear view inside mirror
30	18B574	Wiring harness – Heater blower motor
31	A2-765	Wiring harness – Bi-fuel tank 1
32	A2-766	Wiring harness – Bi-fuel tank 2
33	–	Auxiliary relay box 1
34	–	Alternative Fuel Control Module (AFCM) (5.4L CNG)
35	–	Powertrain Control Module (PCM) (12A650)
36	–	Battery (10655)
37	–	Generator
38	–	ABS control module (2C219)
39	–	Battery Junction Box (BJB) (14A003)
40	–	Auxiliary relay box 2
41	–	Auxiliary relay box 3
42	–	Auxiliary relay box 4
43	–	Central Junction Box (CJB) (14A068)
44	–	Generic Electronic Module (GEM) (14B205)
45	–	Auxiliary relay box 5
46	–	Central security module
47	–	Belt minder module
48	–	Natural Gas Vehicle (NGV) tank
49	–	Natural Gas Vehicle (NGV) tank
50	14A348	Wiring harness – Trailer brake control switch

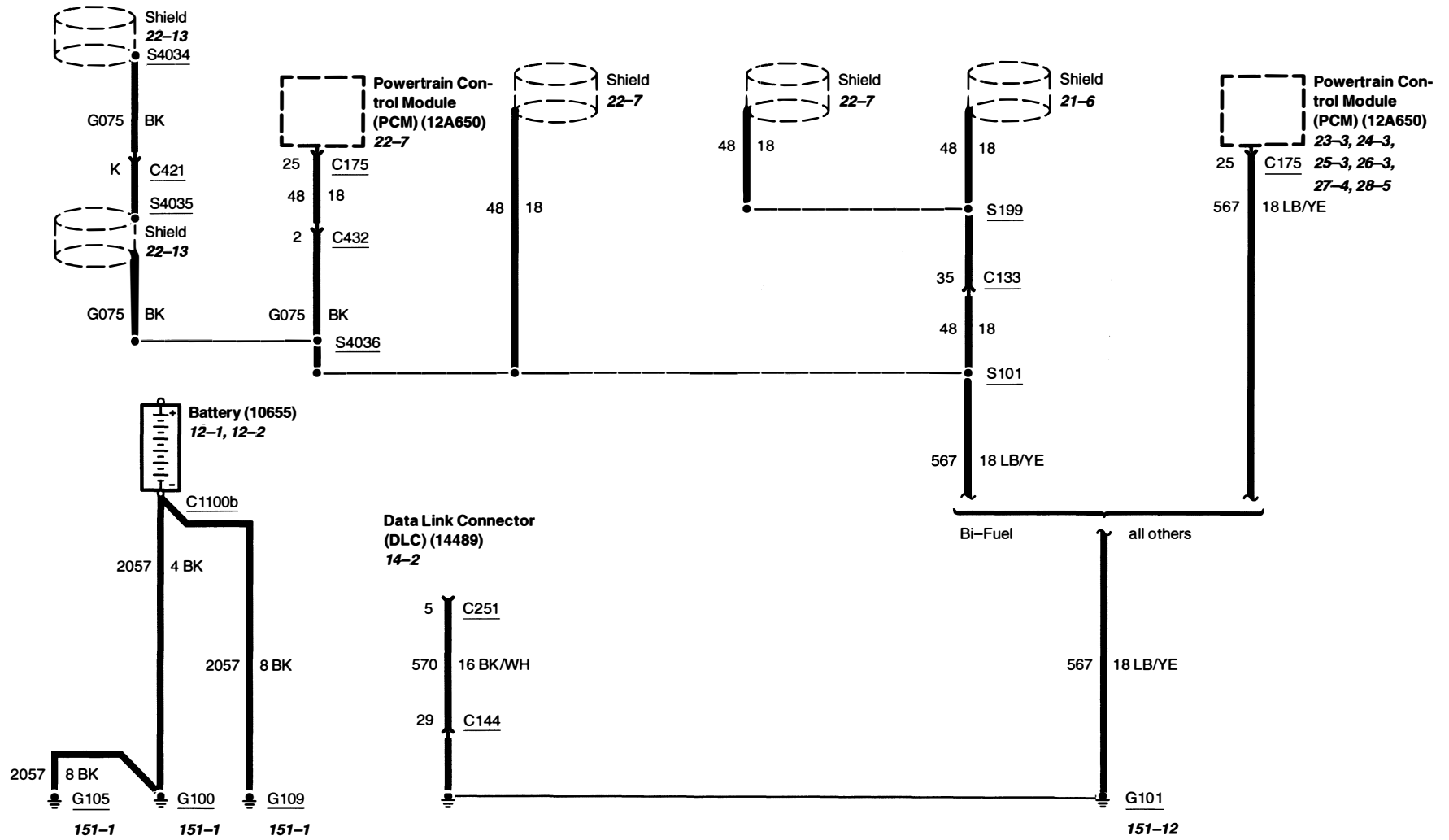
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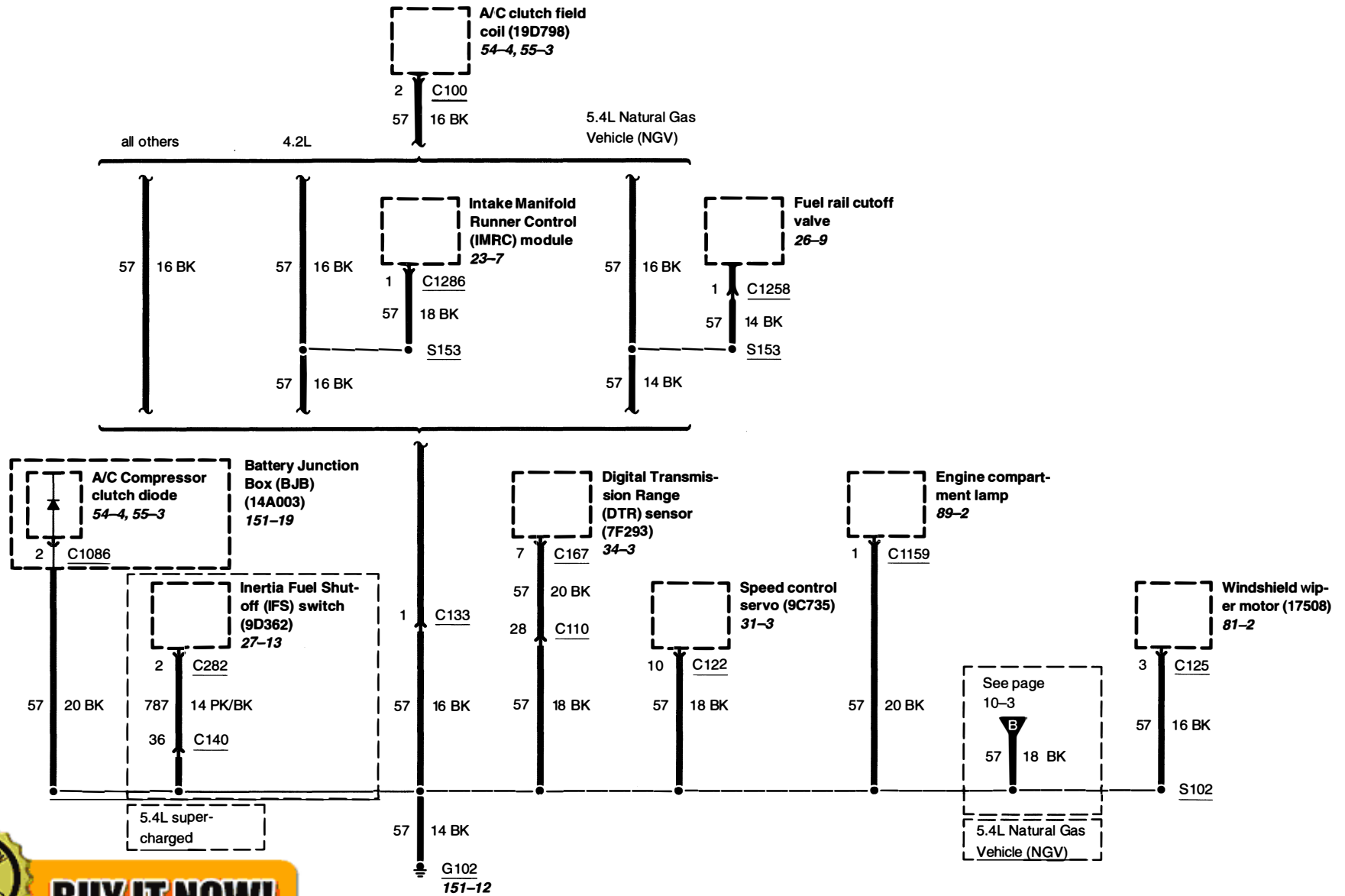
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G102

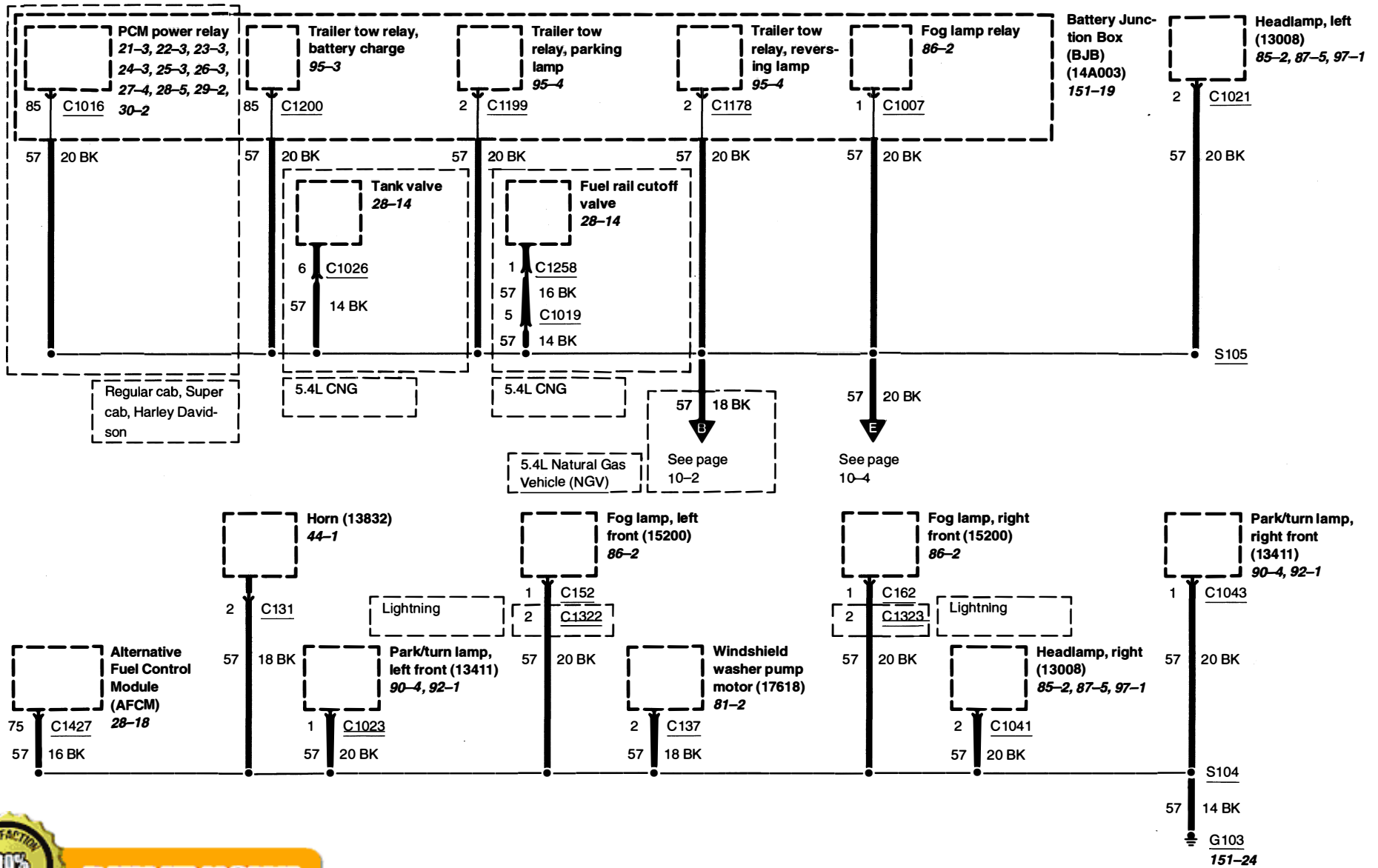


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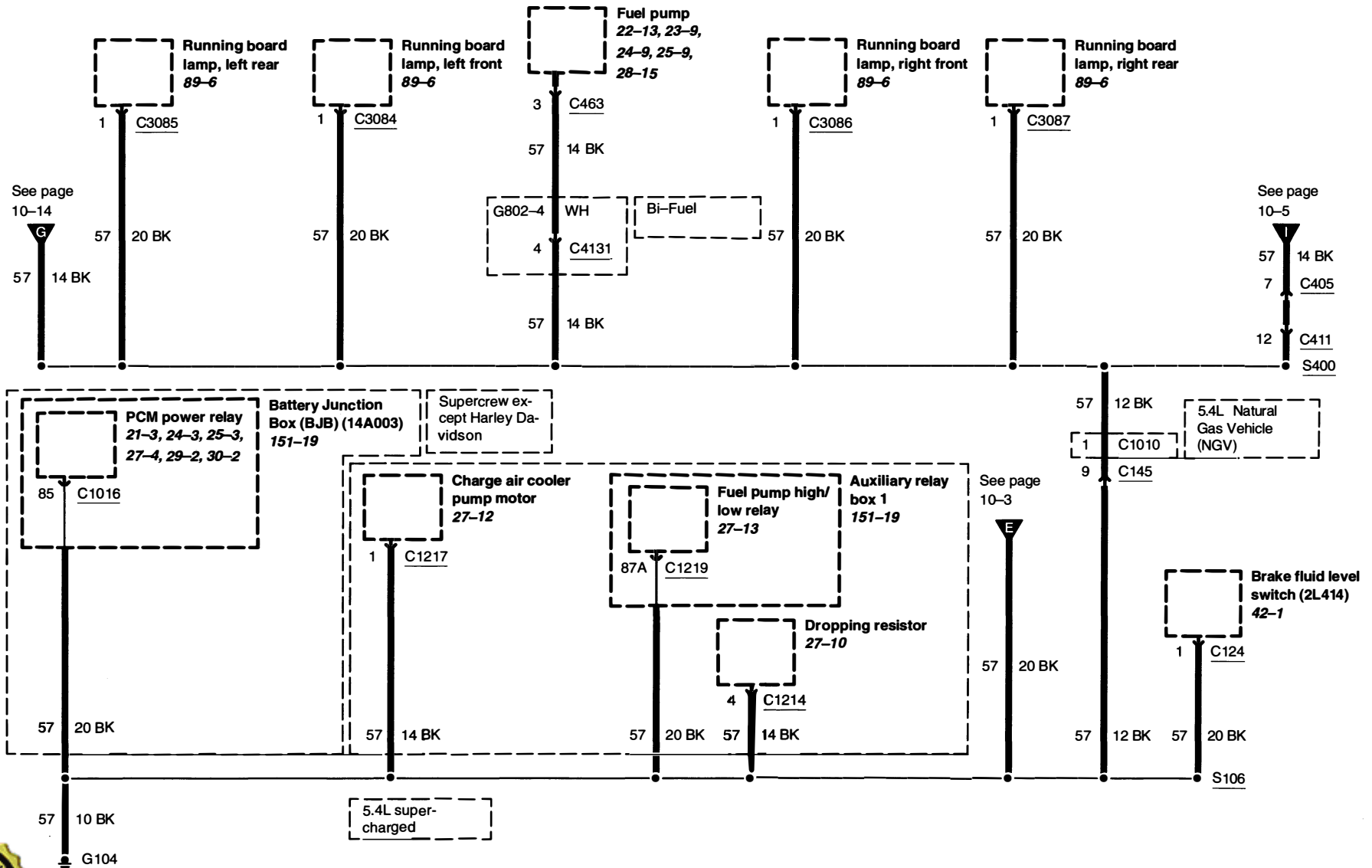
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G104



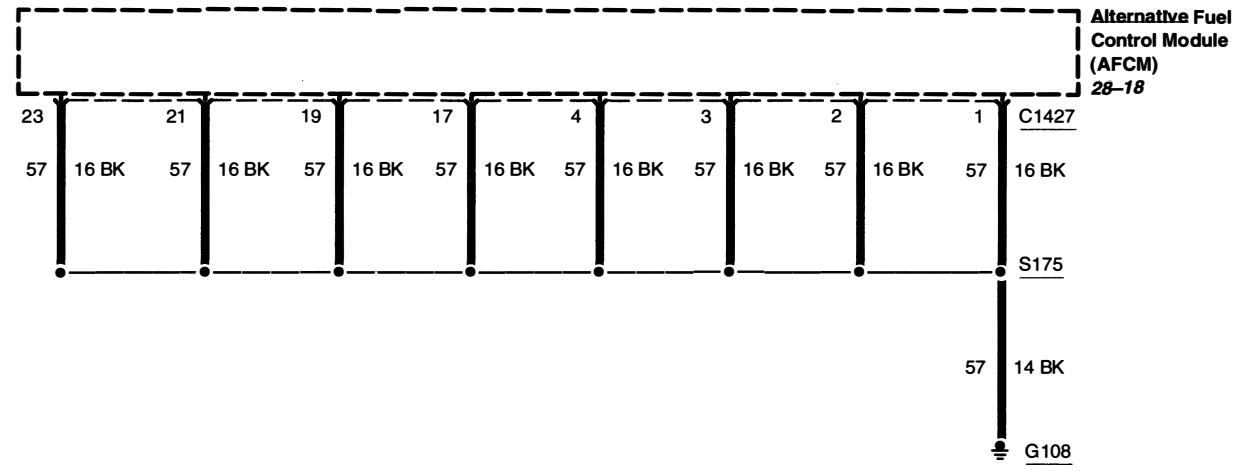
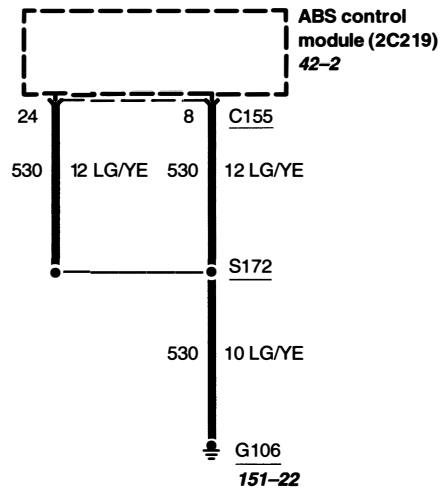
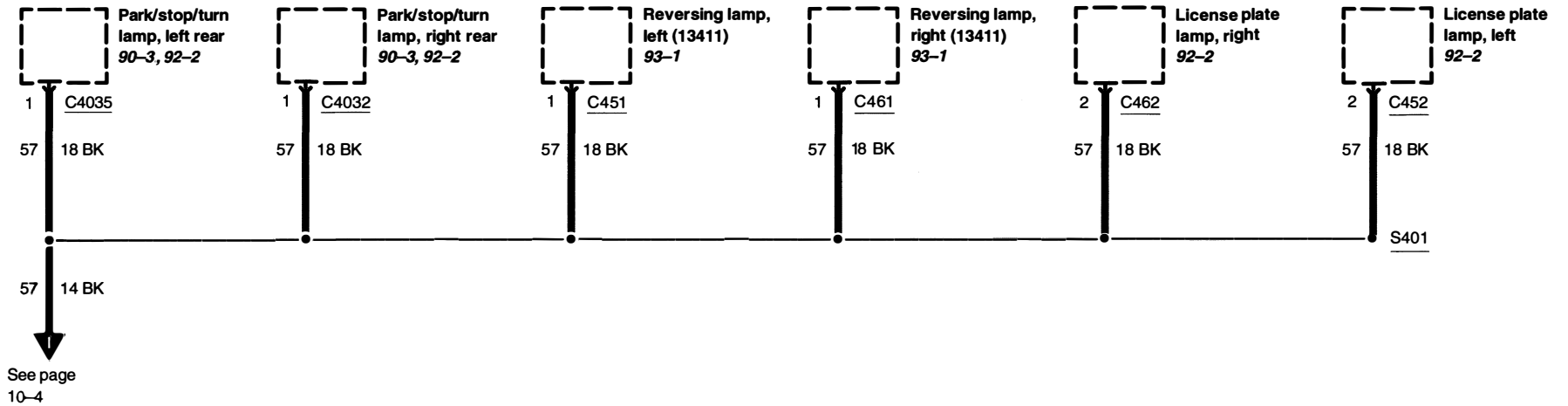
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G106, G108



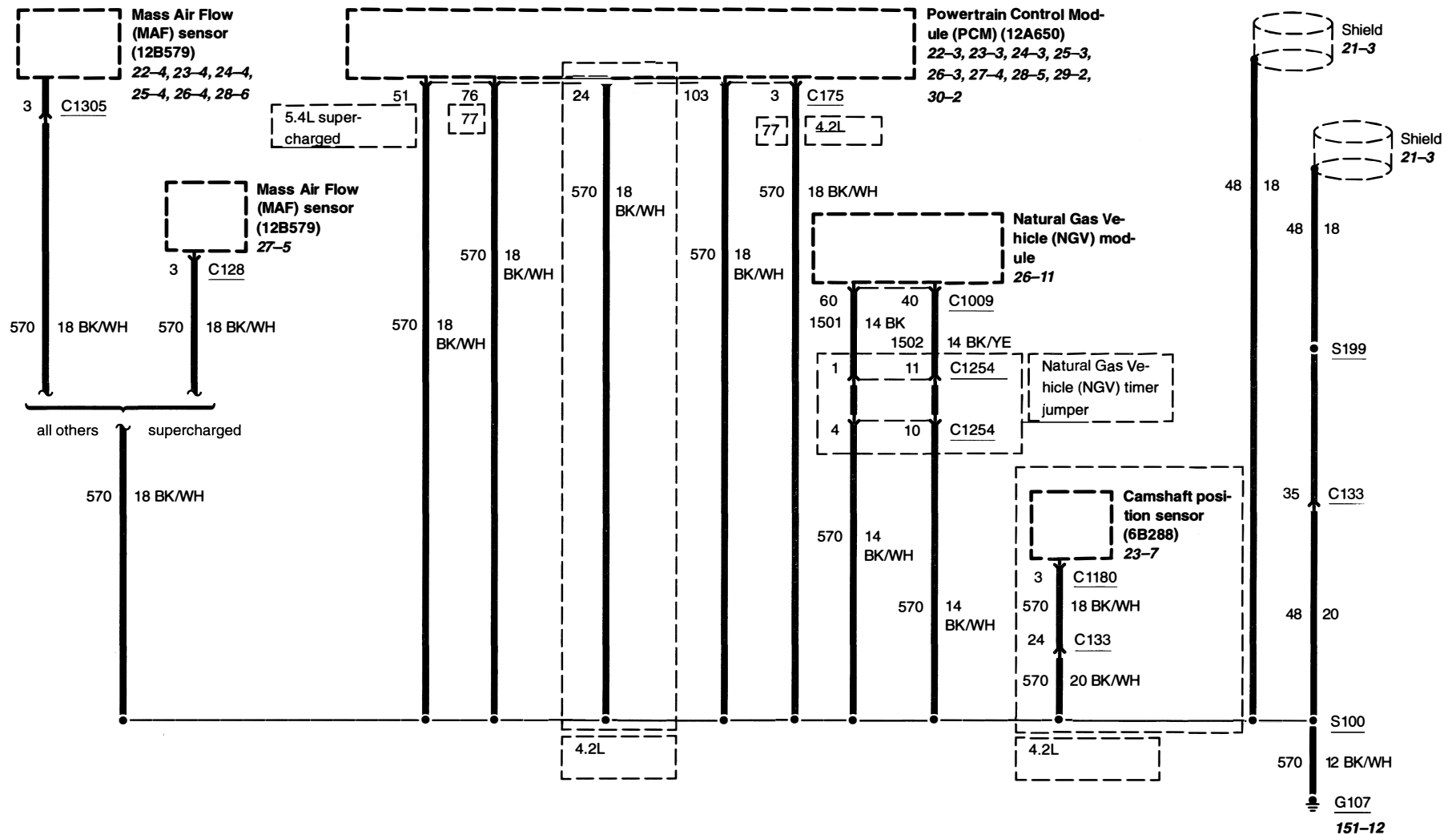
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G107



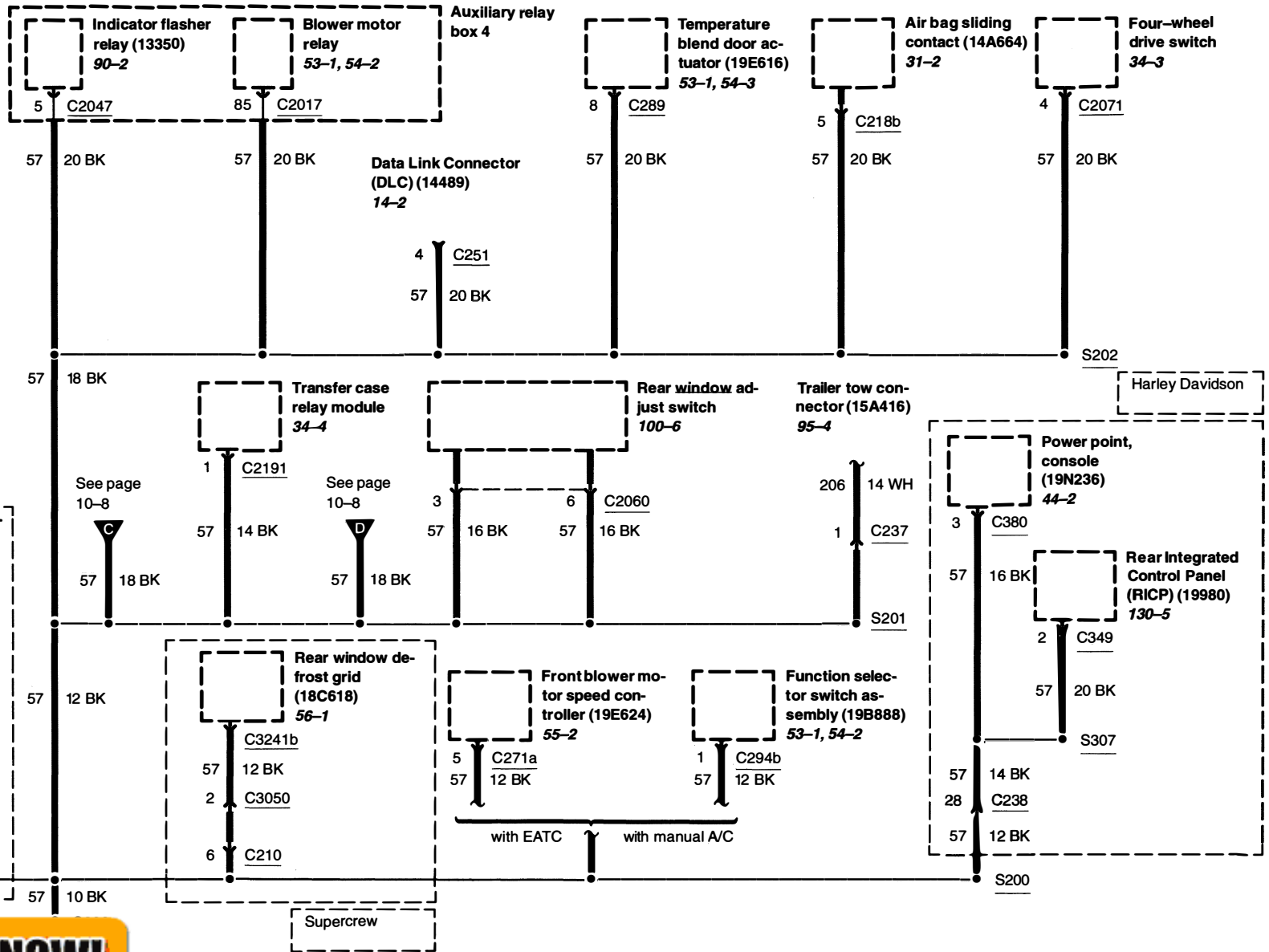
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G200

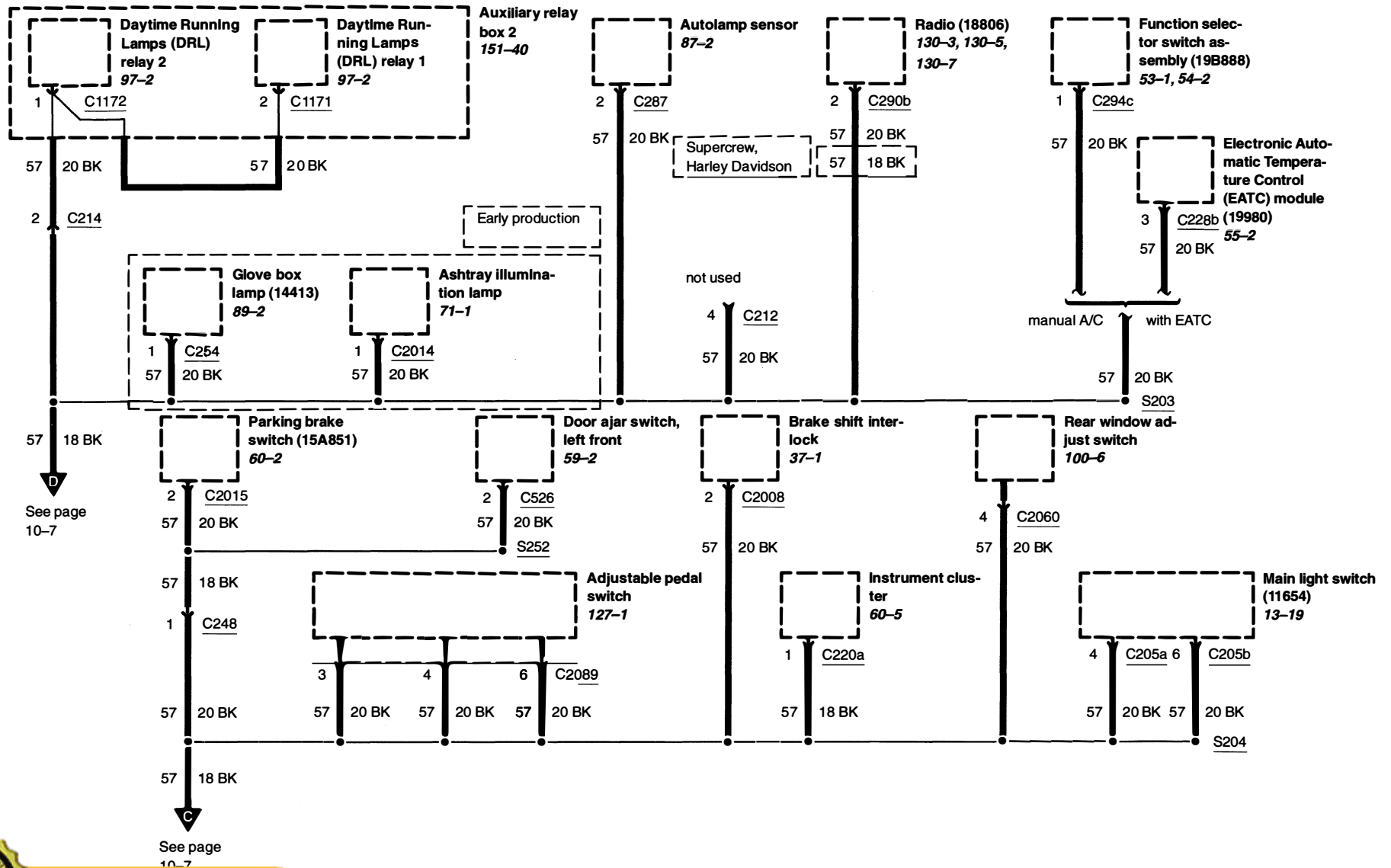


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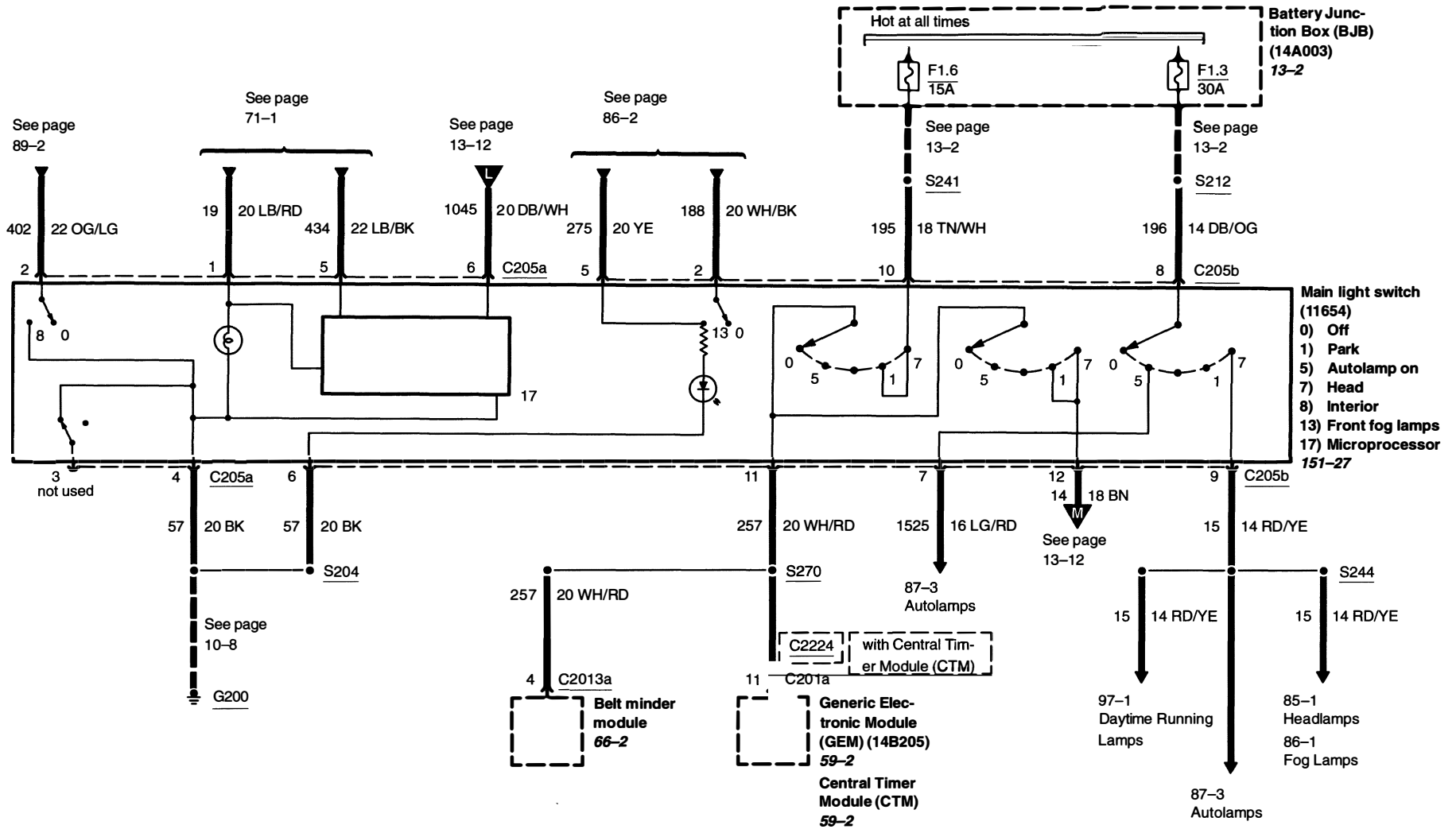
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# 13-19 Power Distribution



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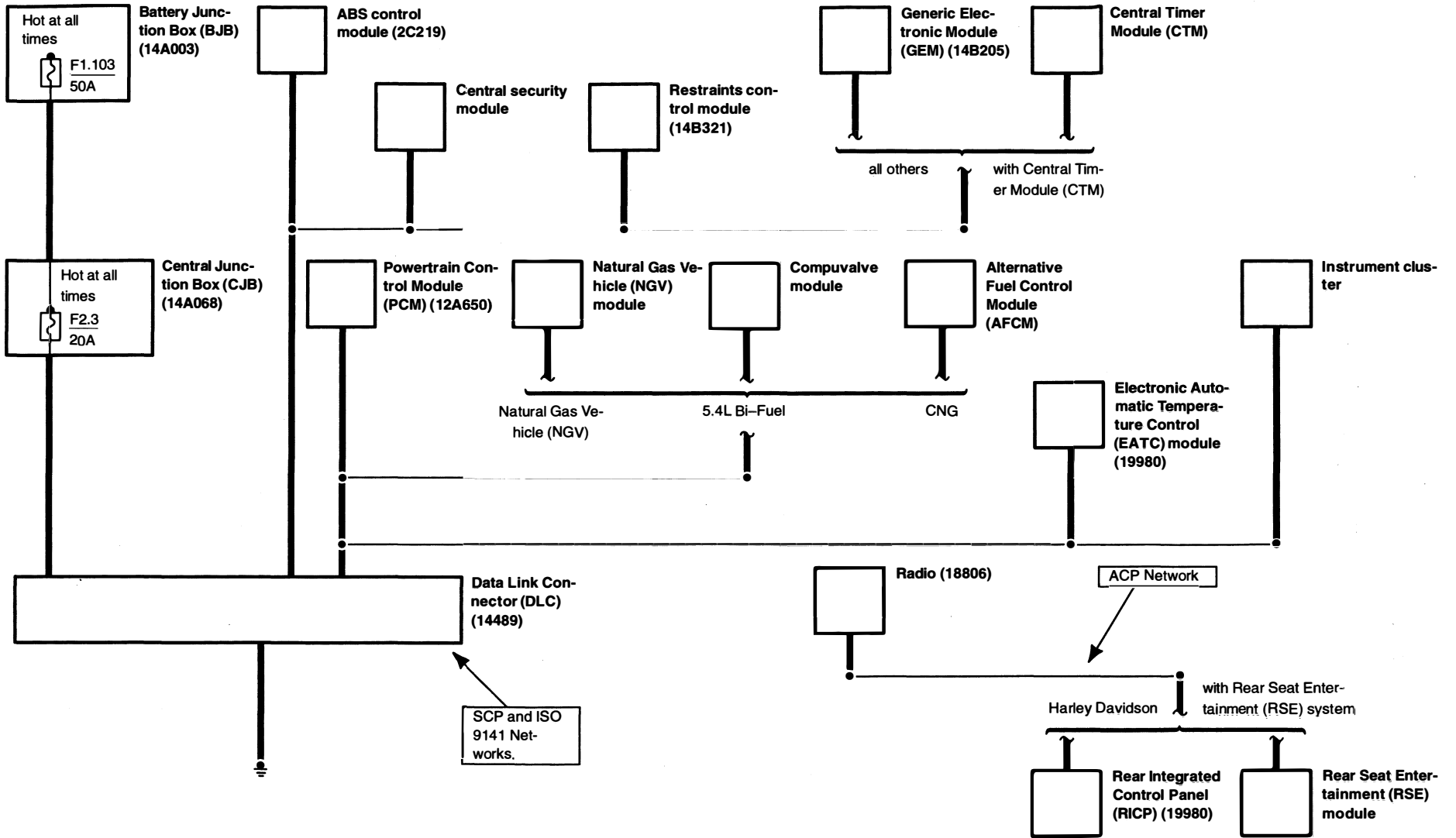
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System overview



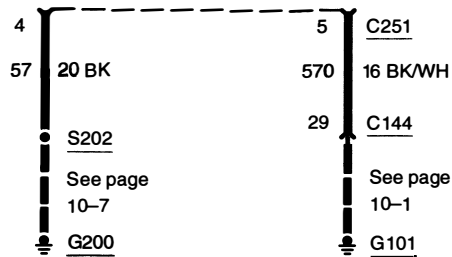
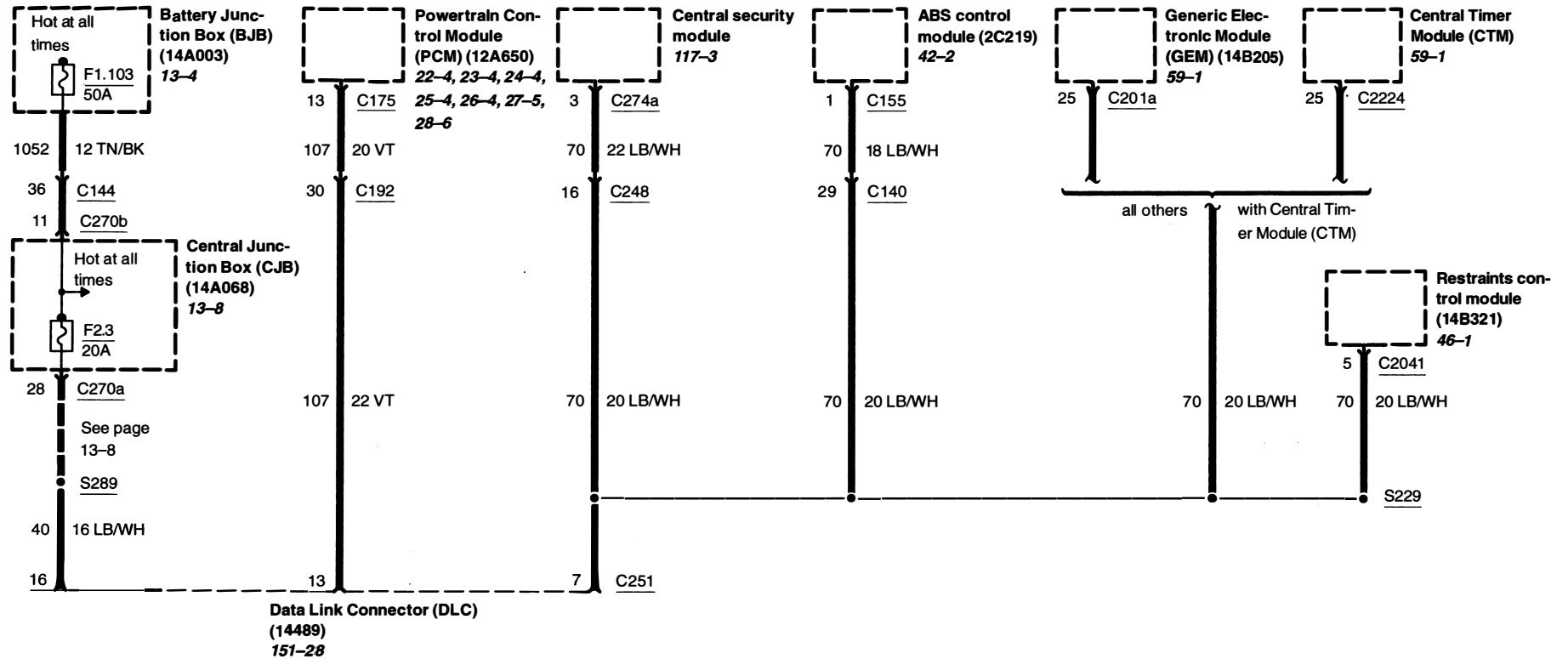
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ISO Bus



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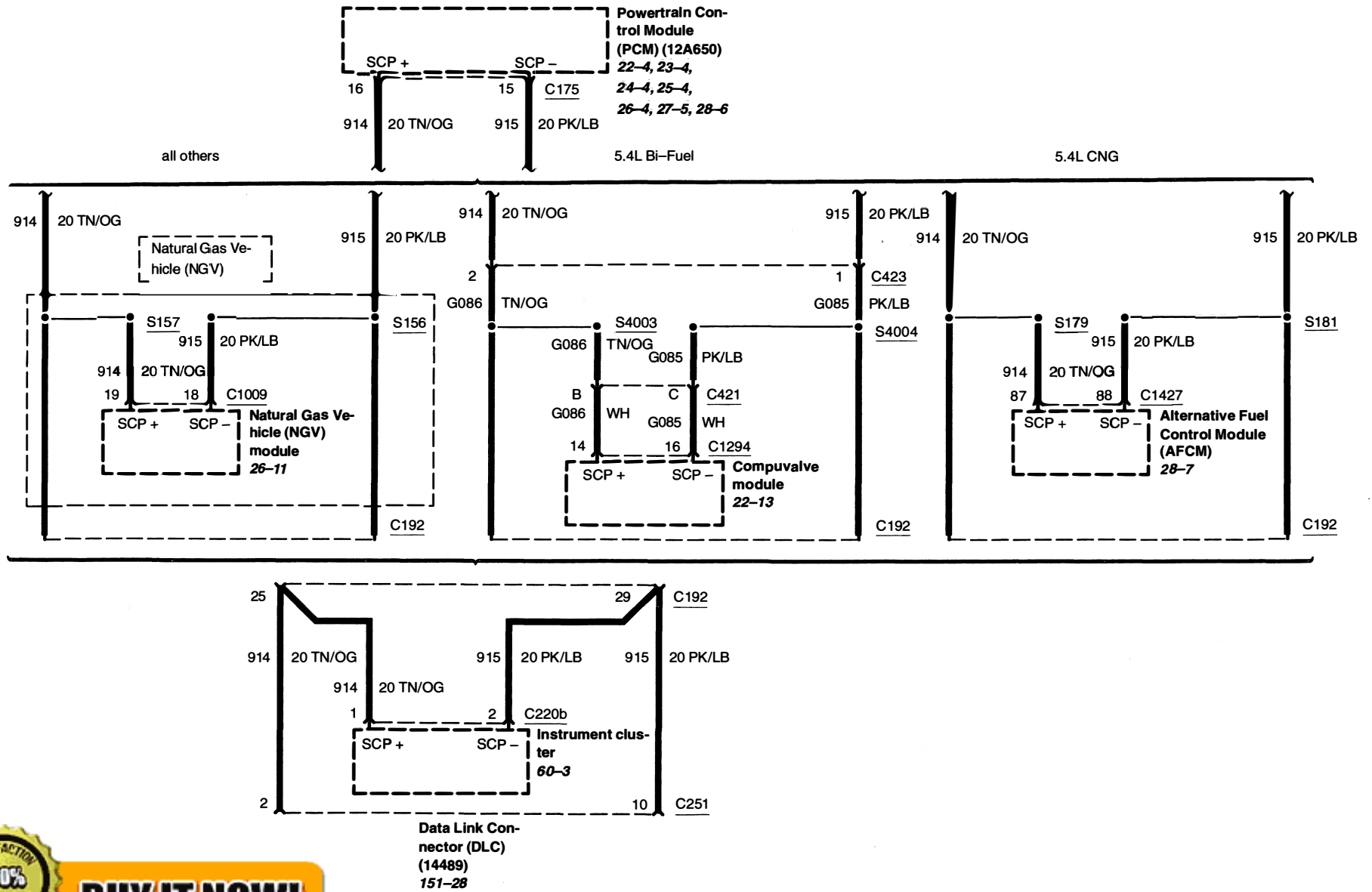
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# 14-3 Module Communications Network

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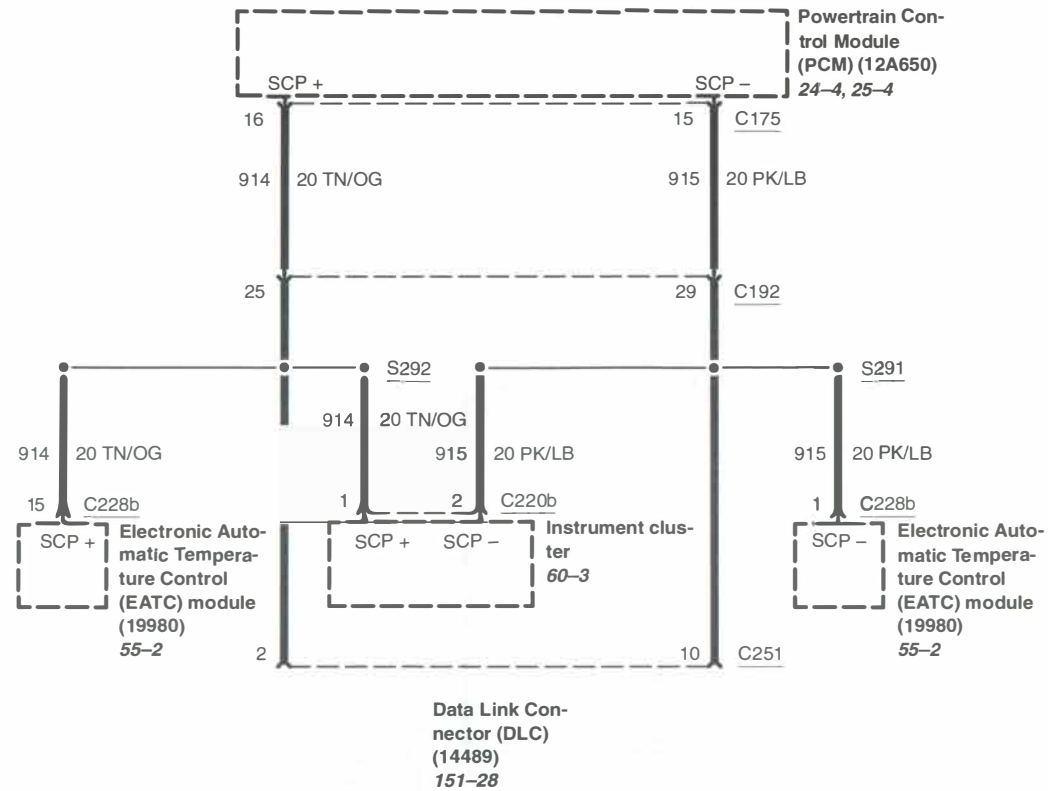


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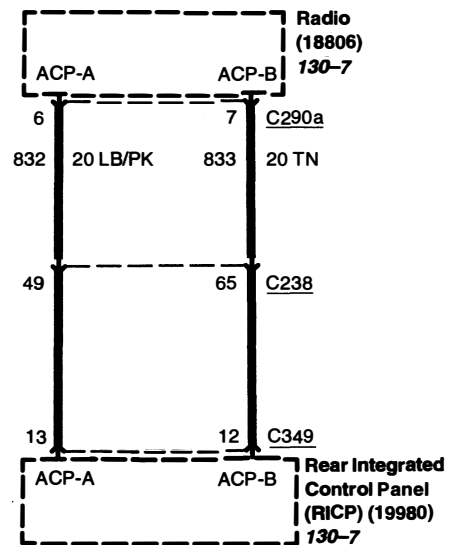
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ACP Bus, Harley Davidson



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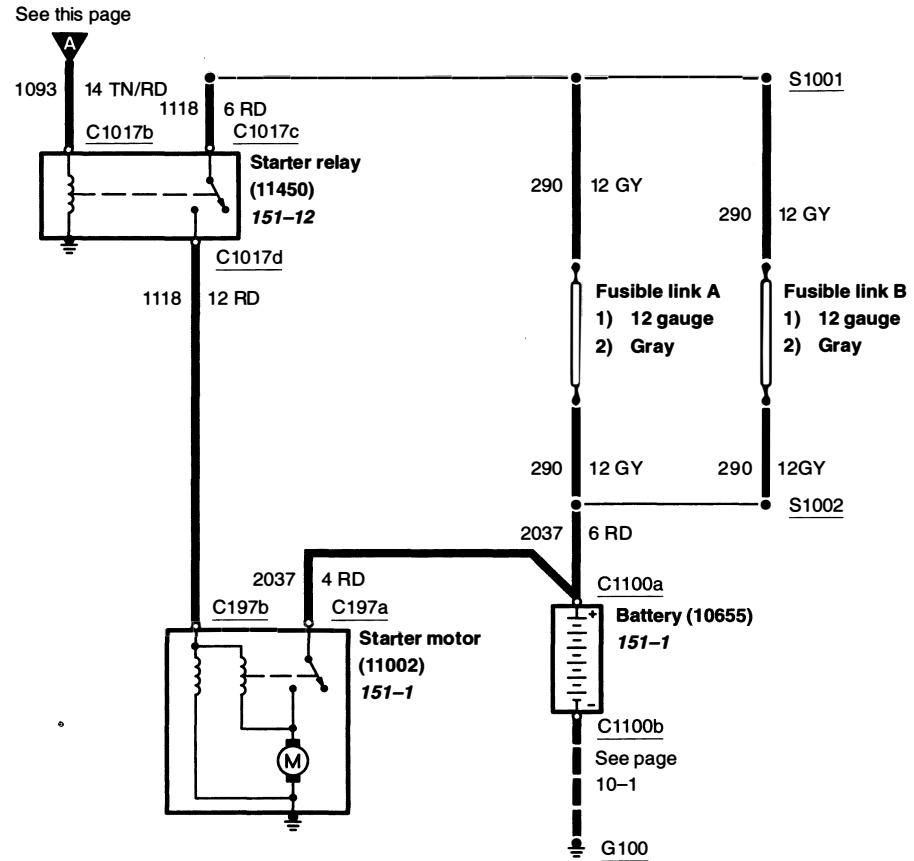
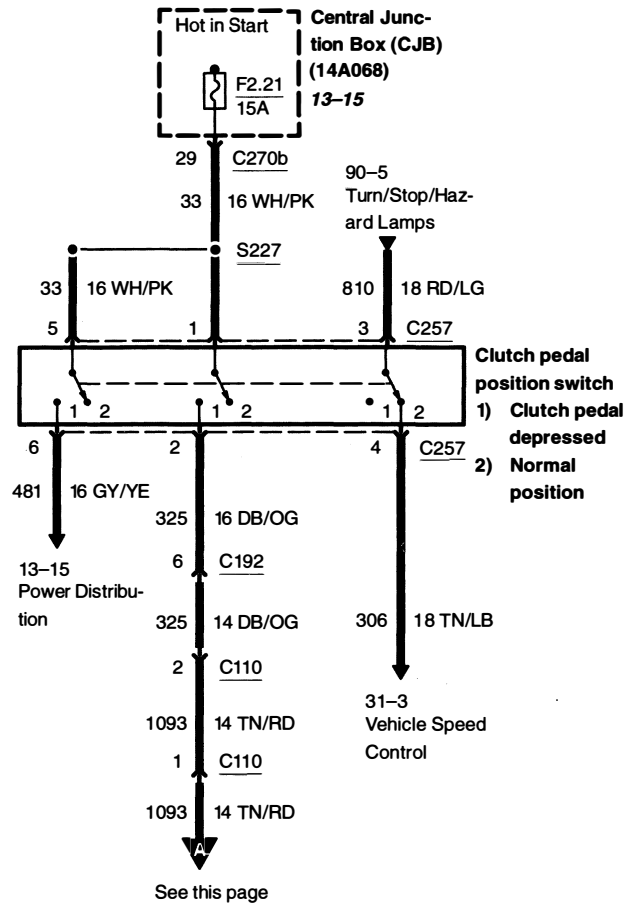
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Manual



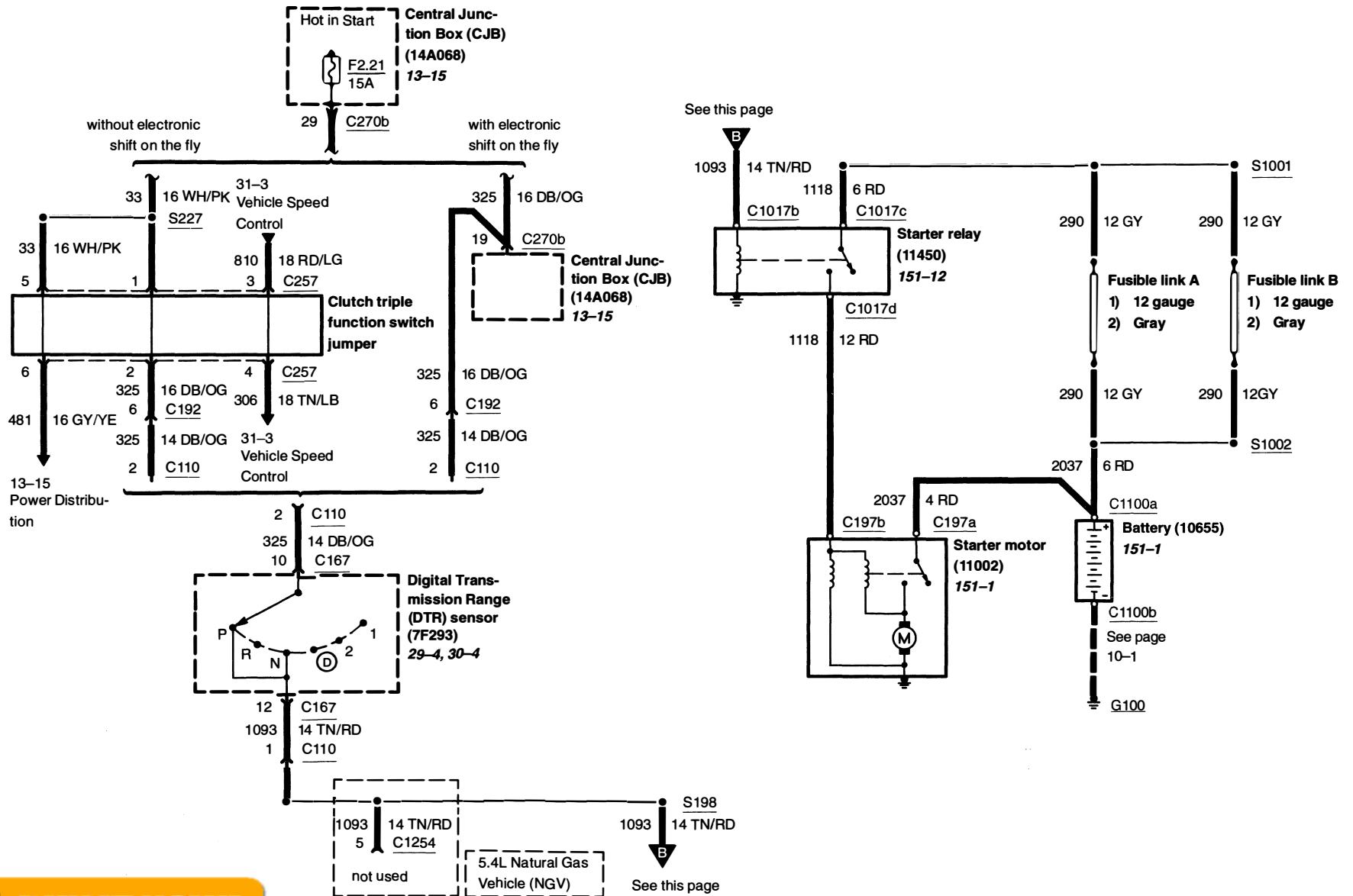
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Automatic

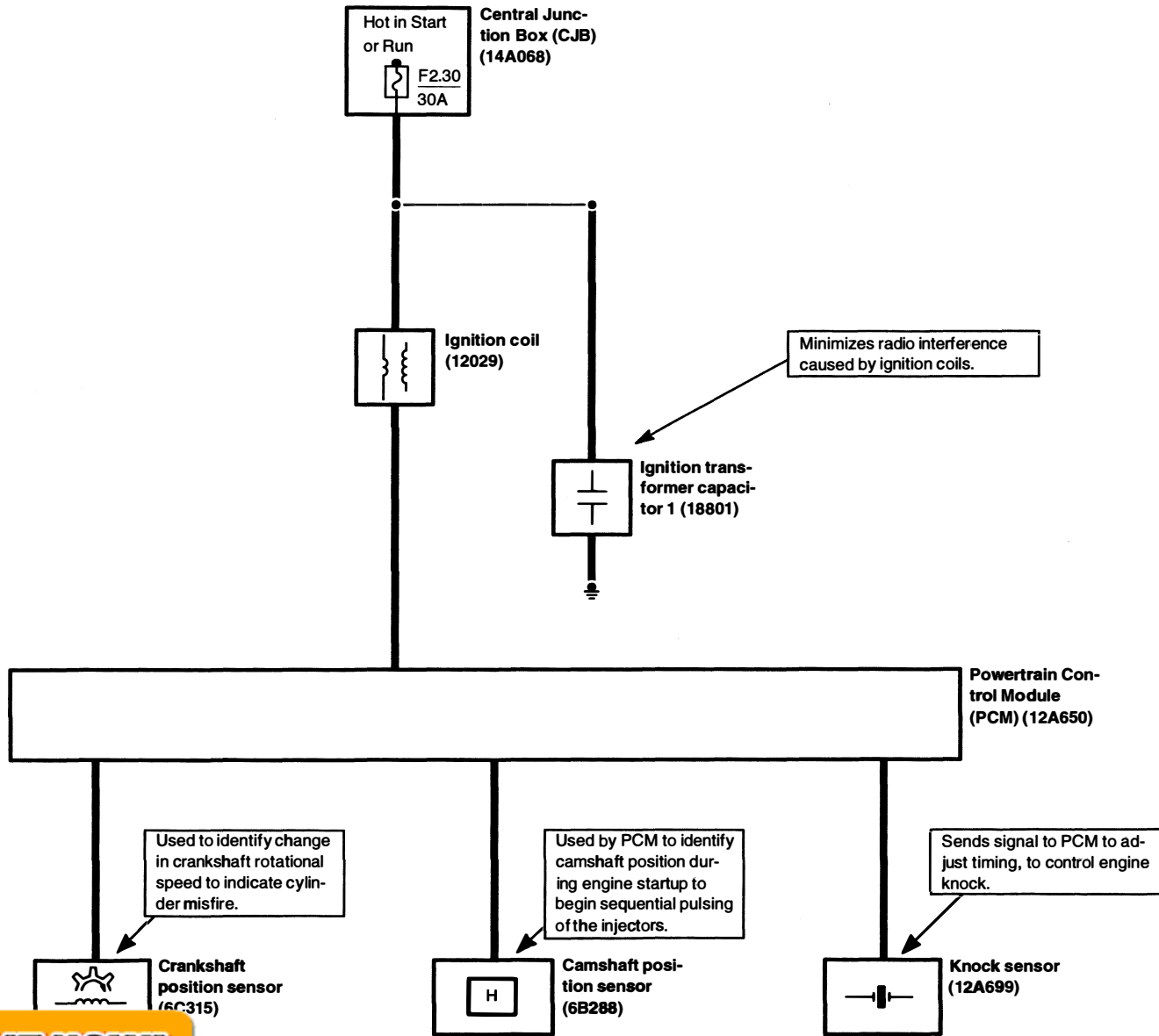


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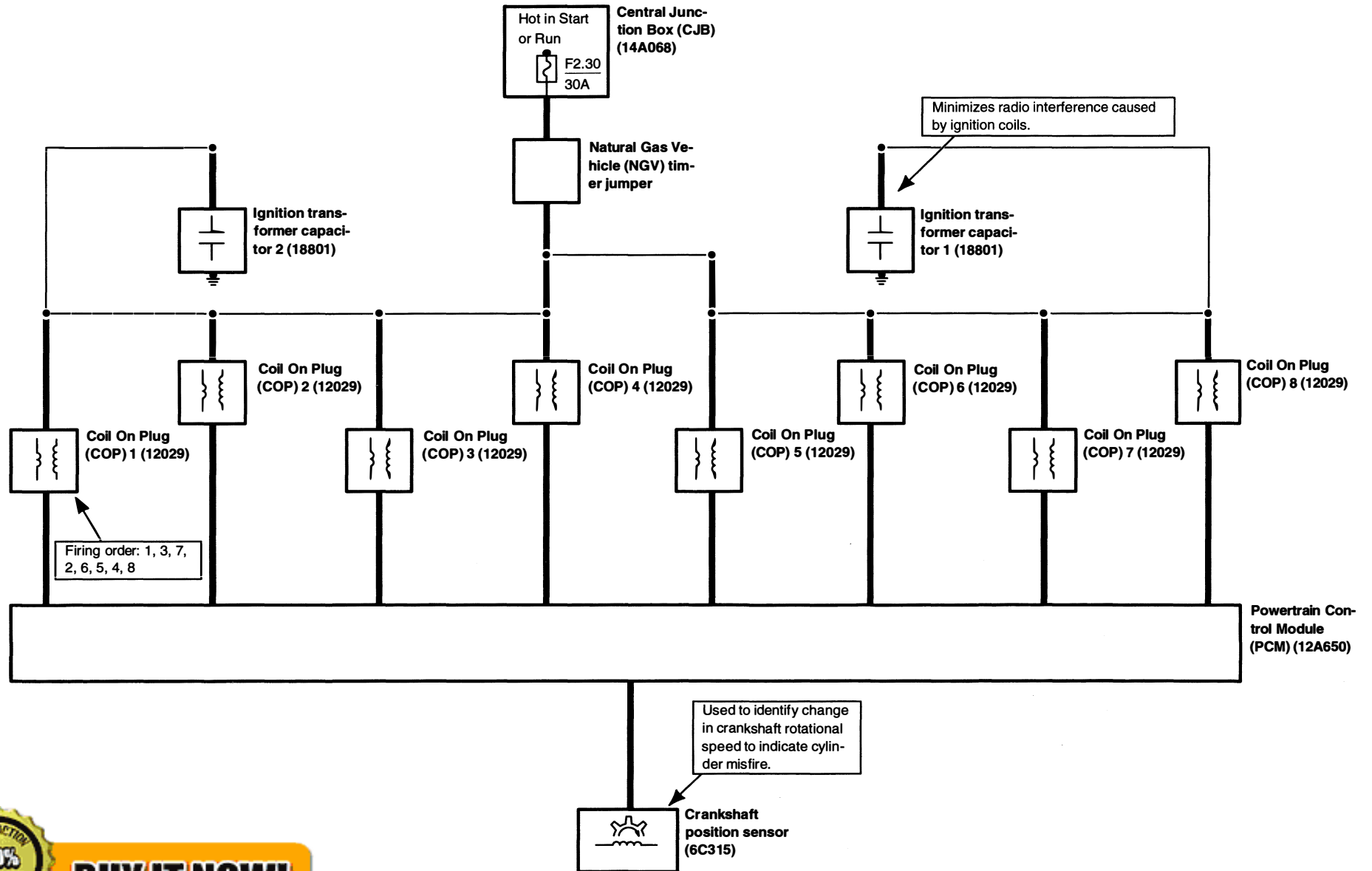
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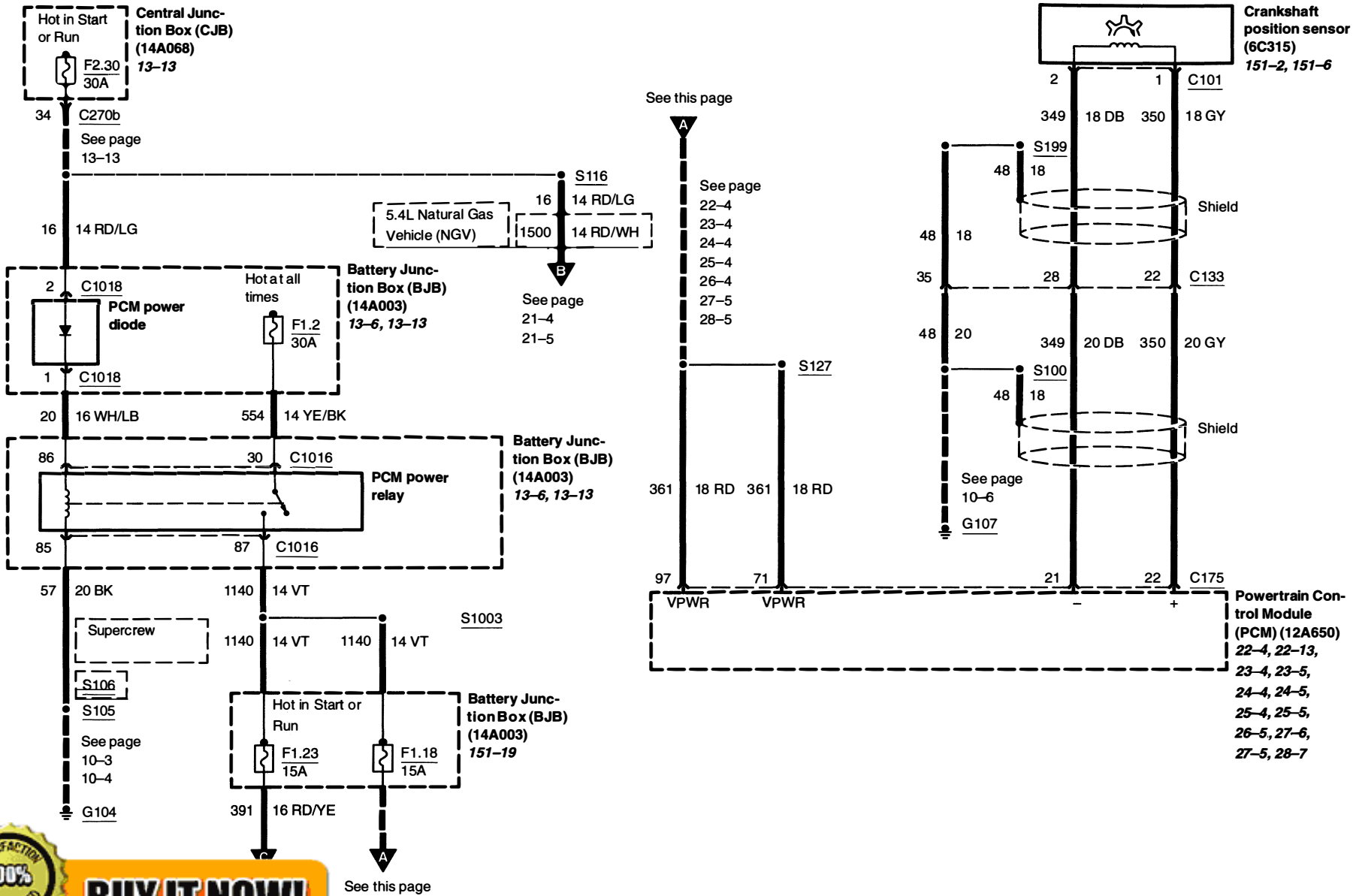
4.6L, 5.4L, System overview



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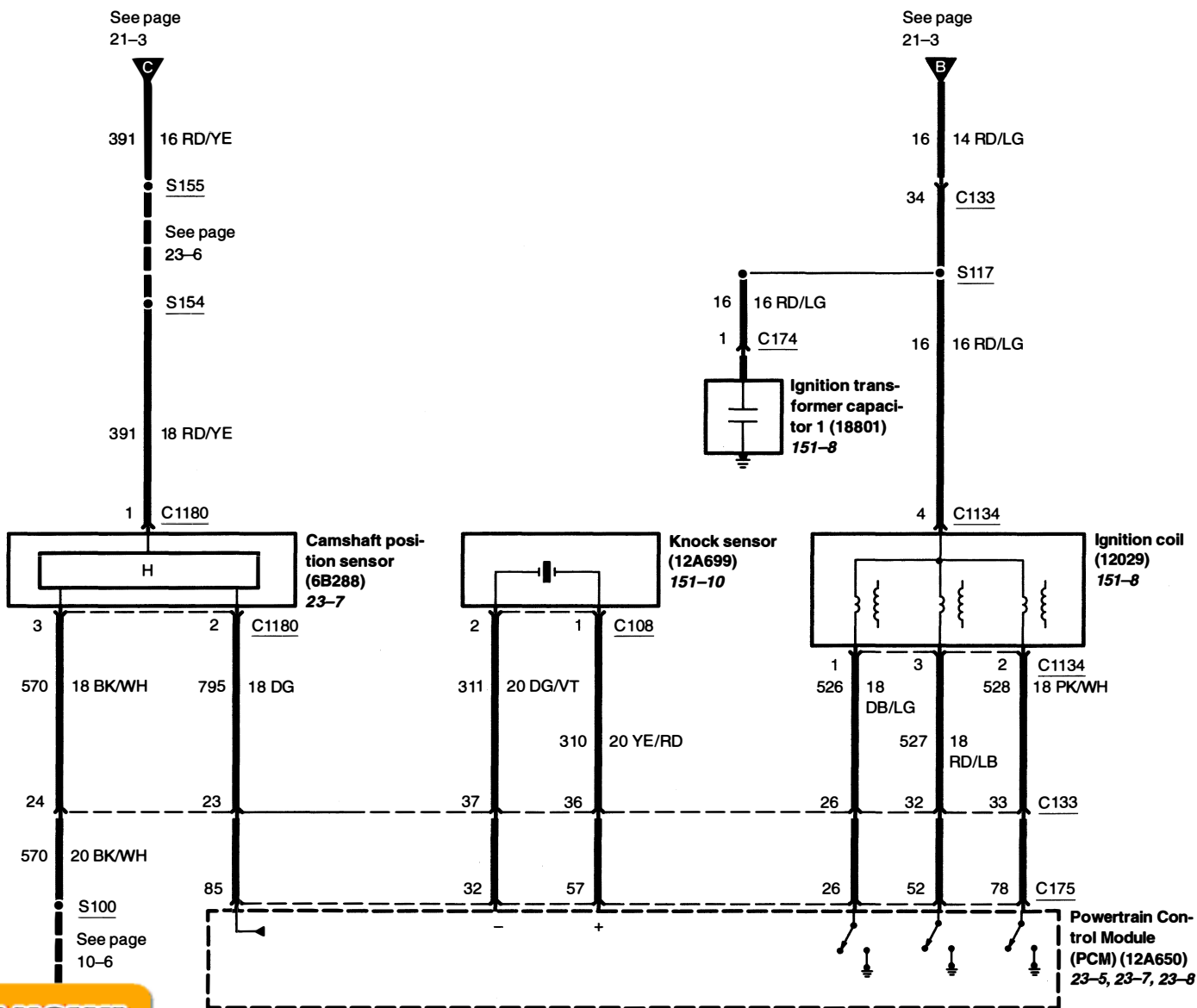
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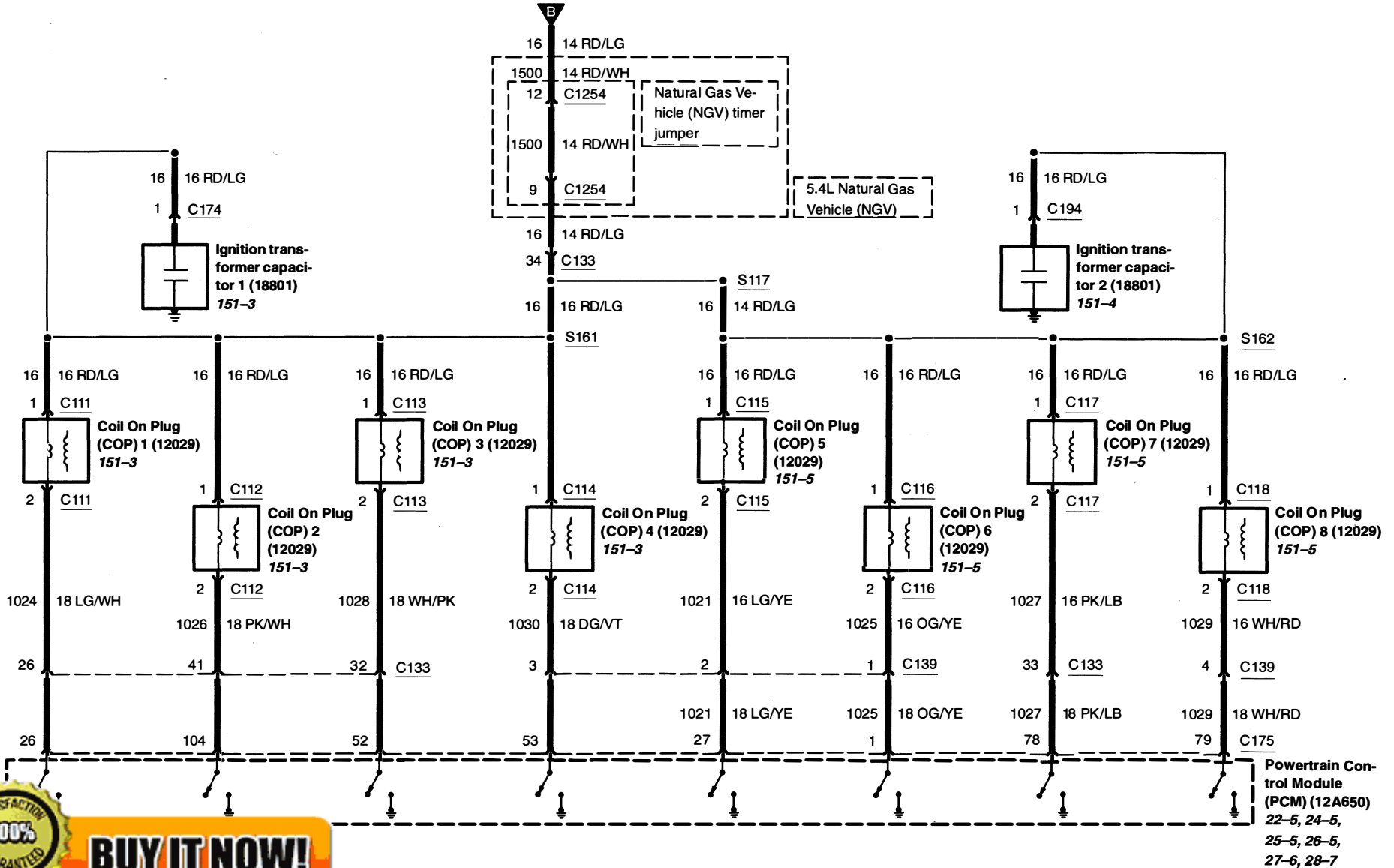
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4.6L, 5.4L

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21-3



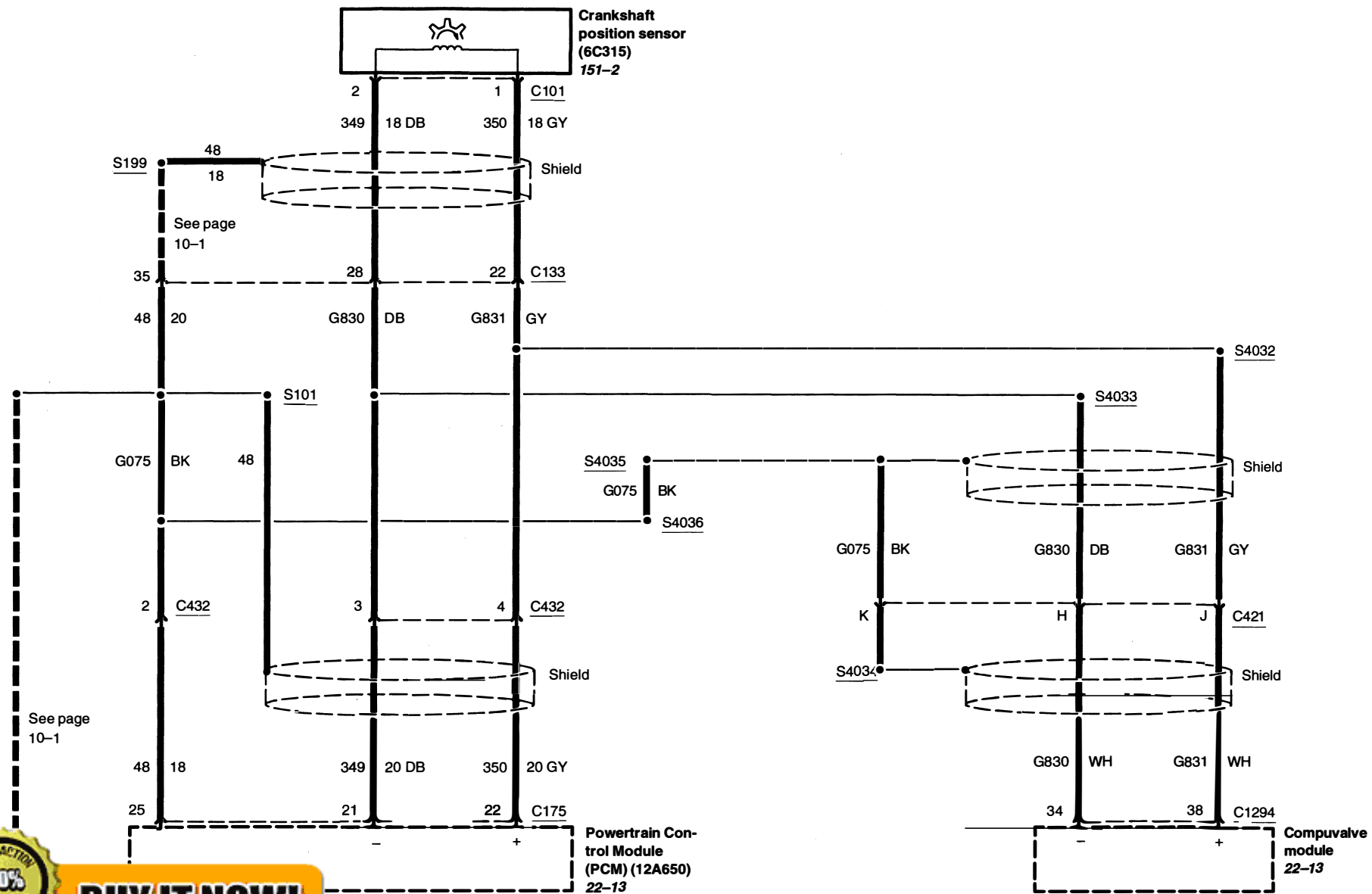
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Bi-Fuel

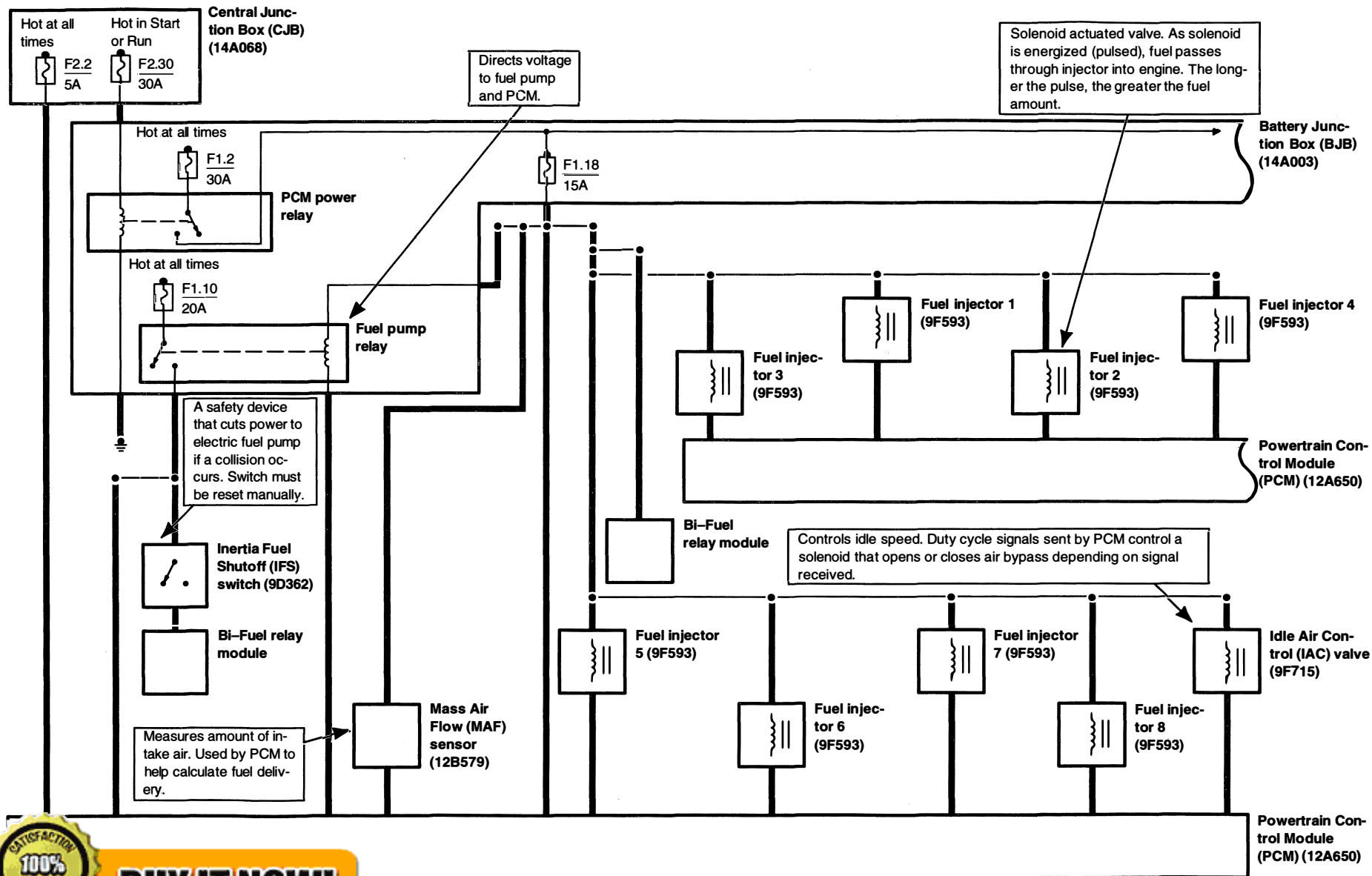


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5.4L Bi-Fuel, System overview



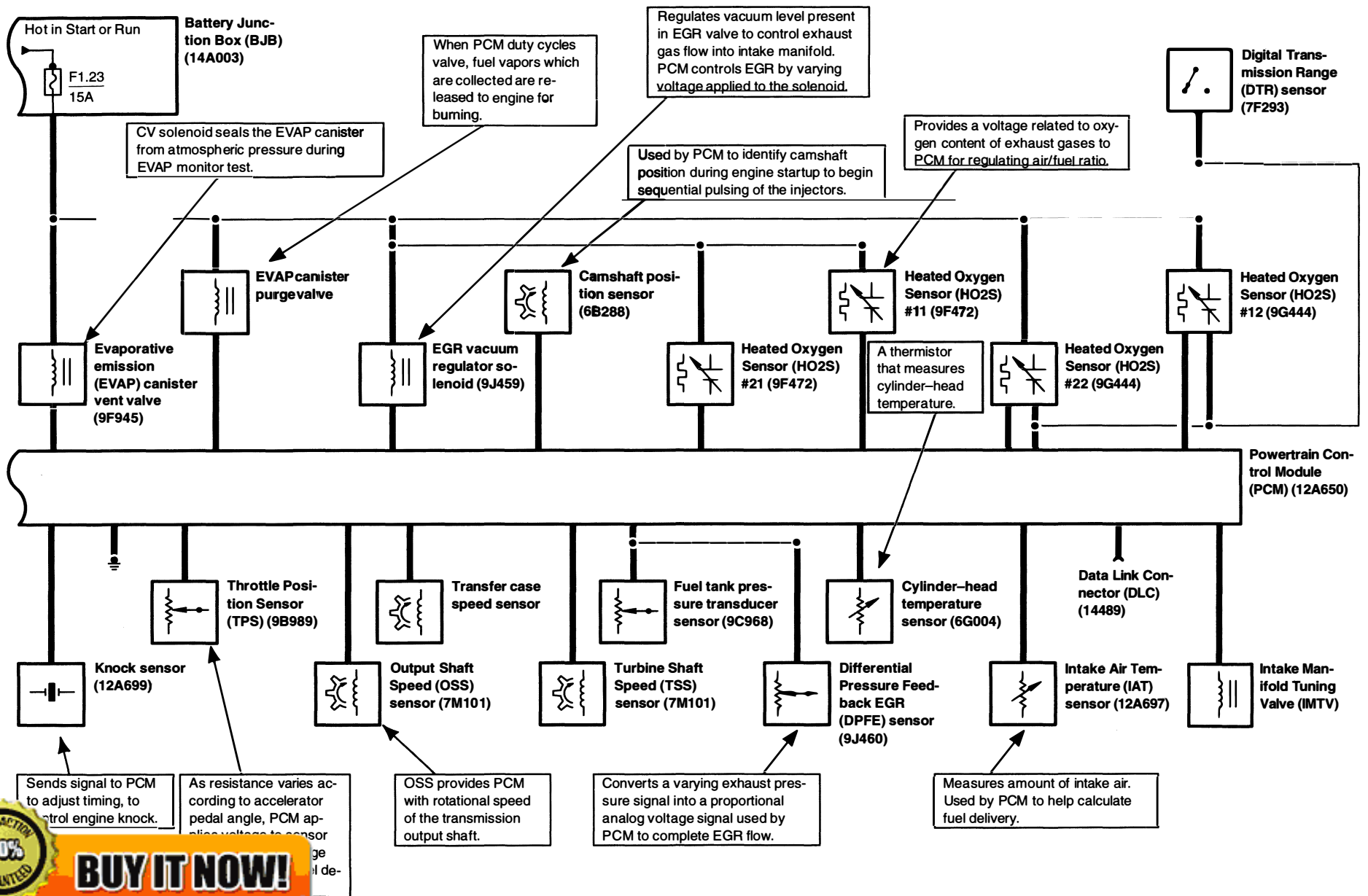
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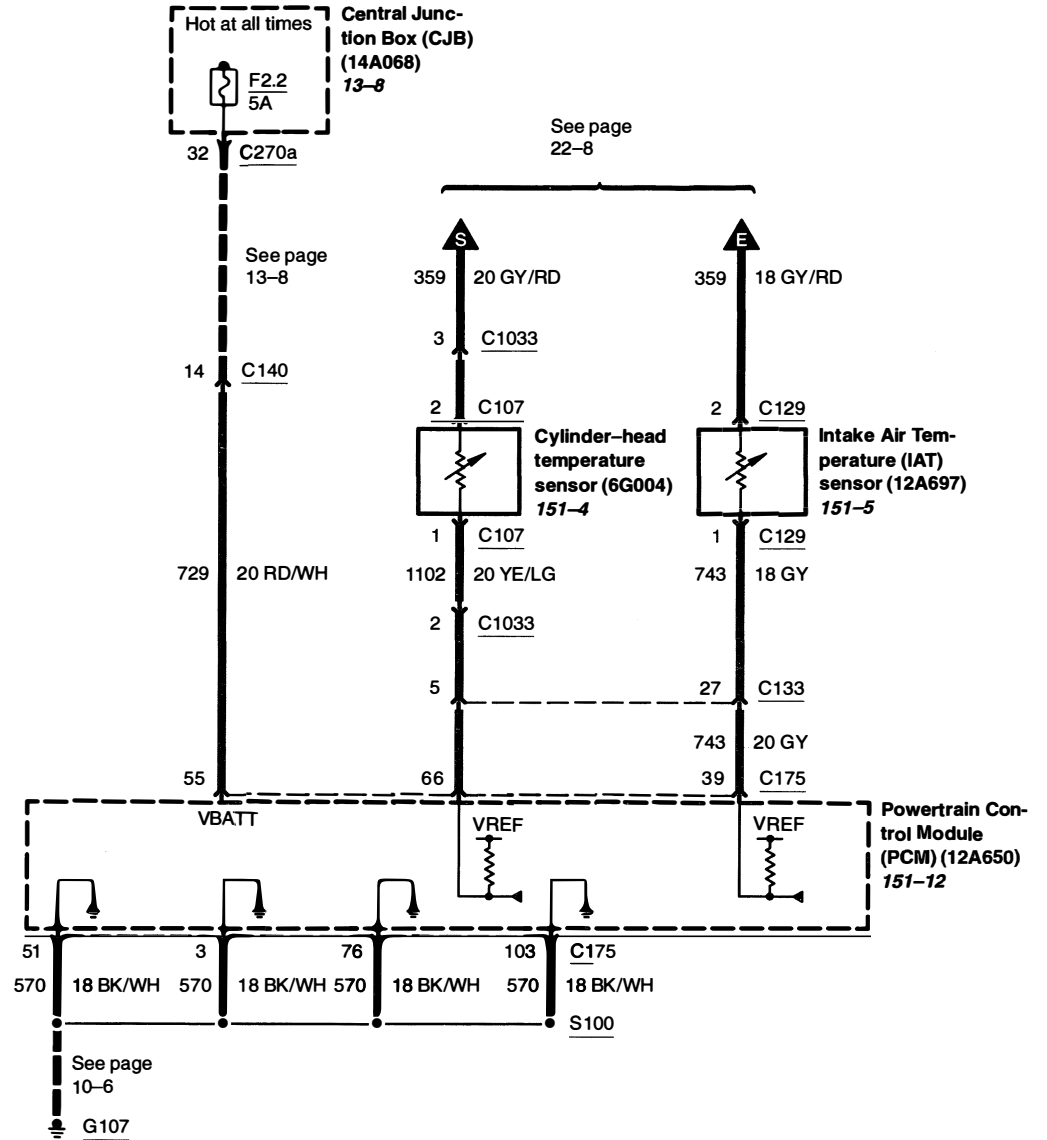
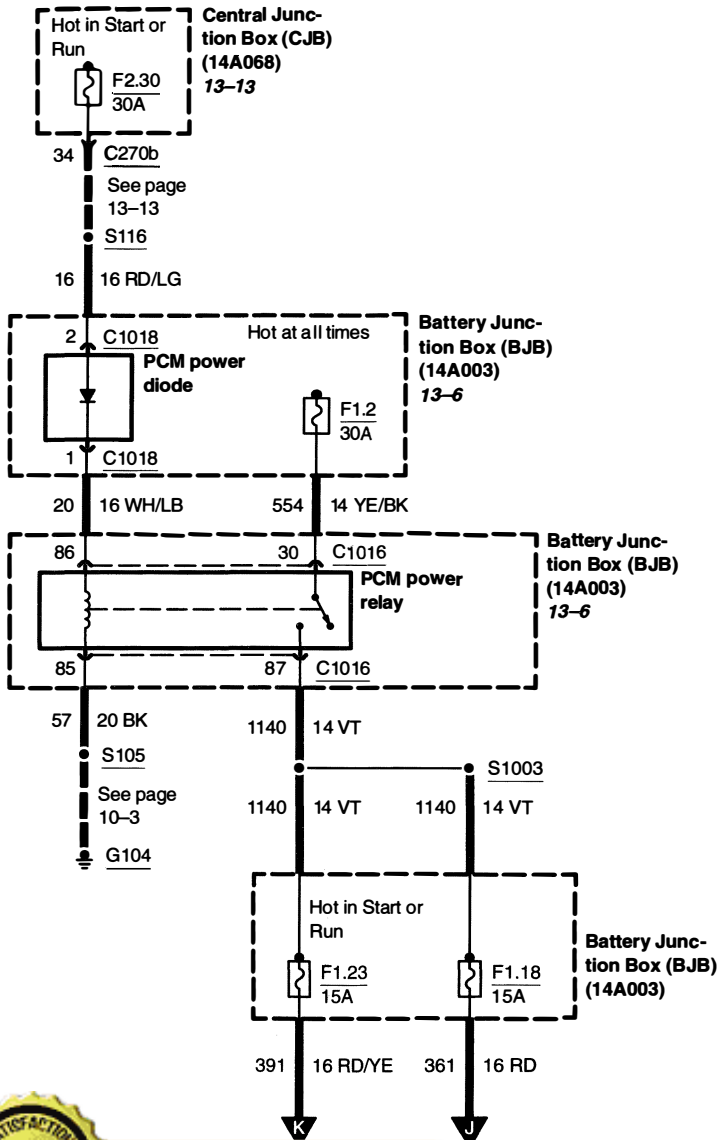
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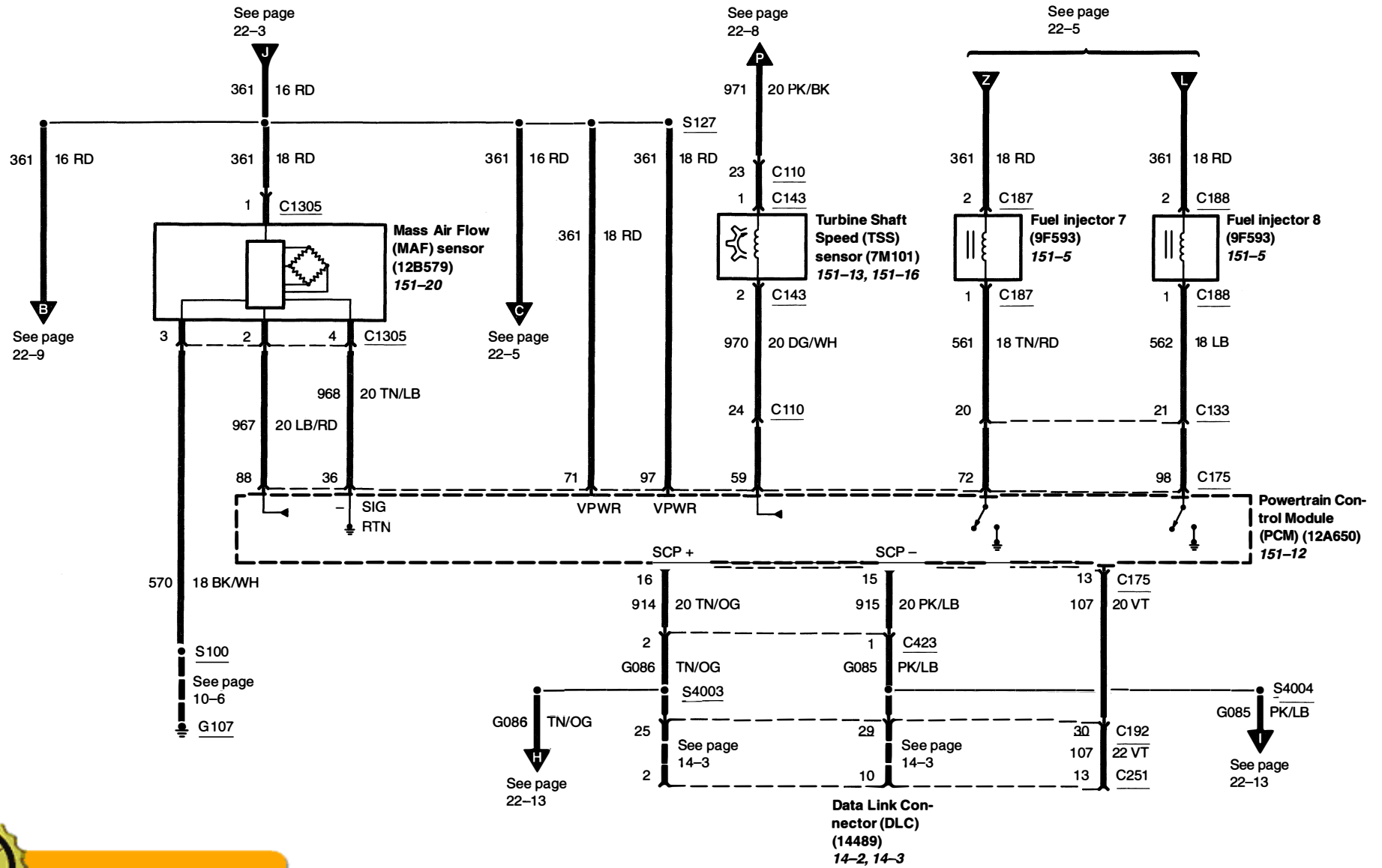
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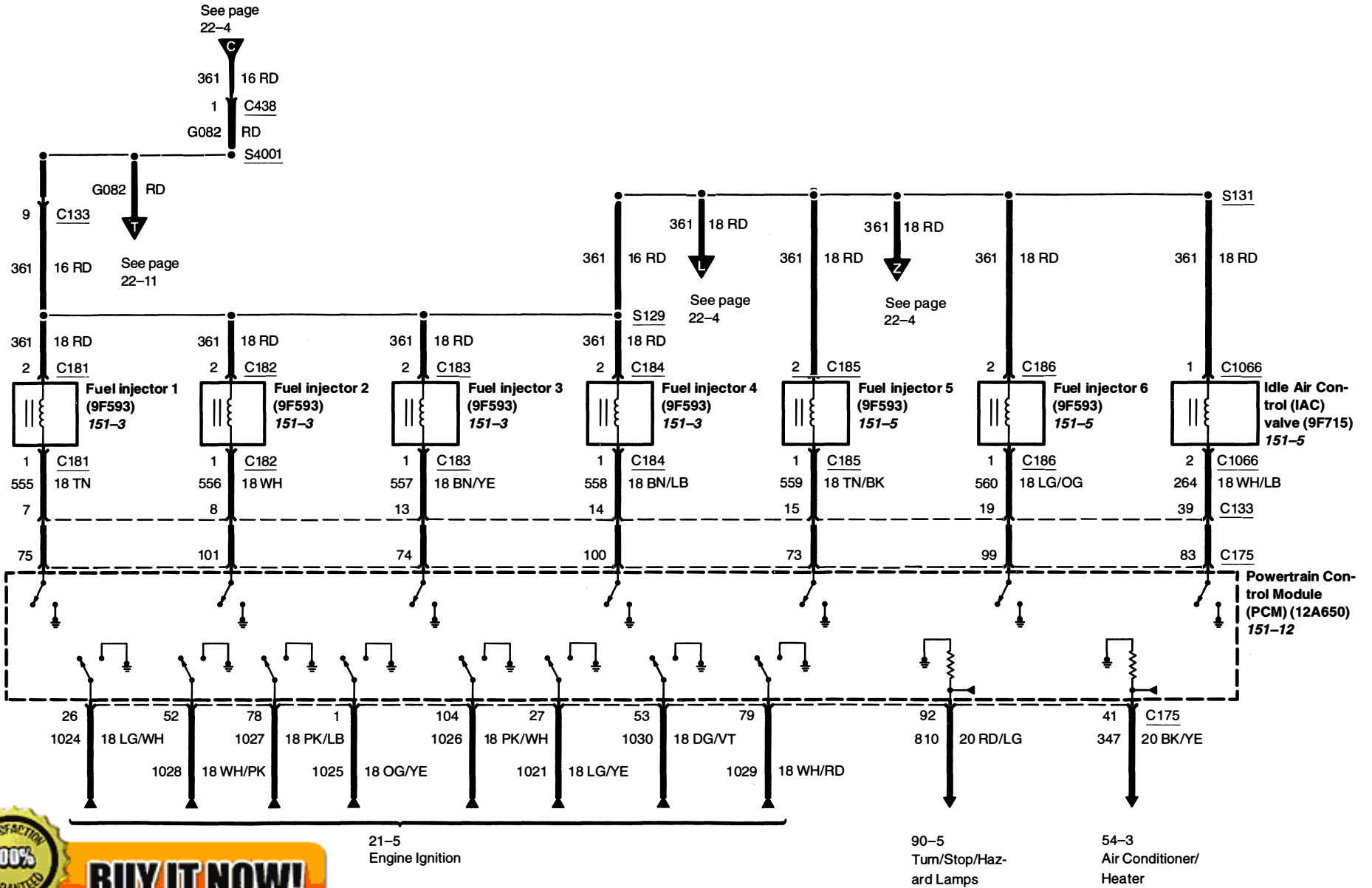


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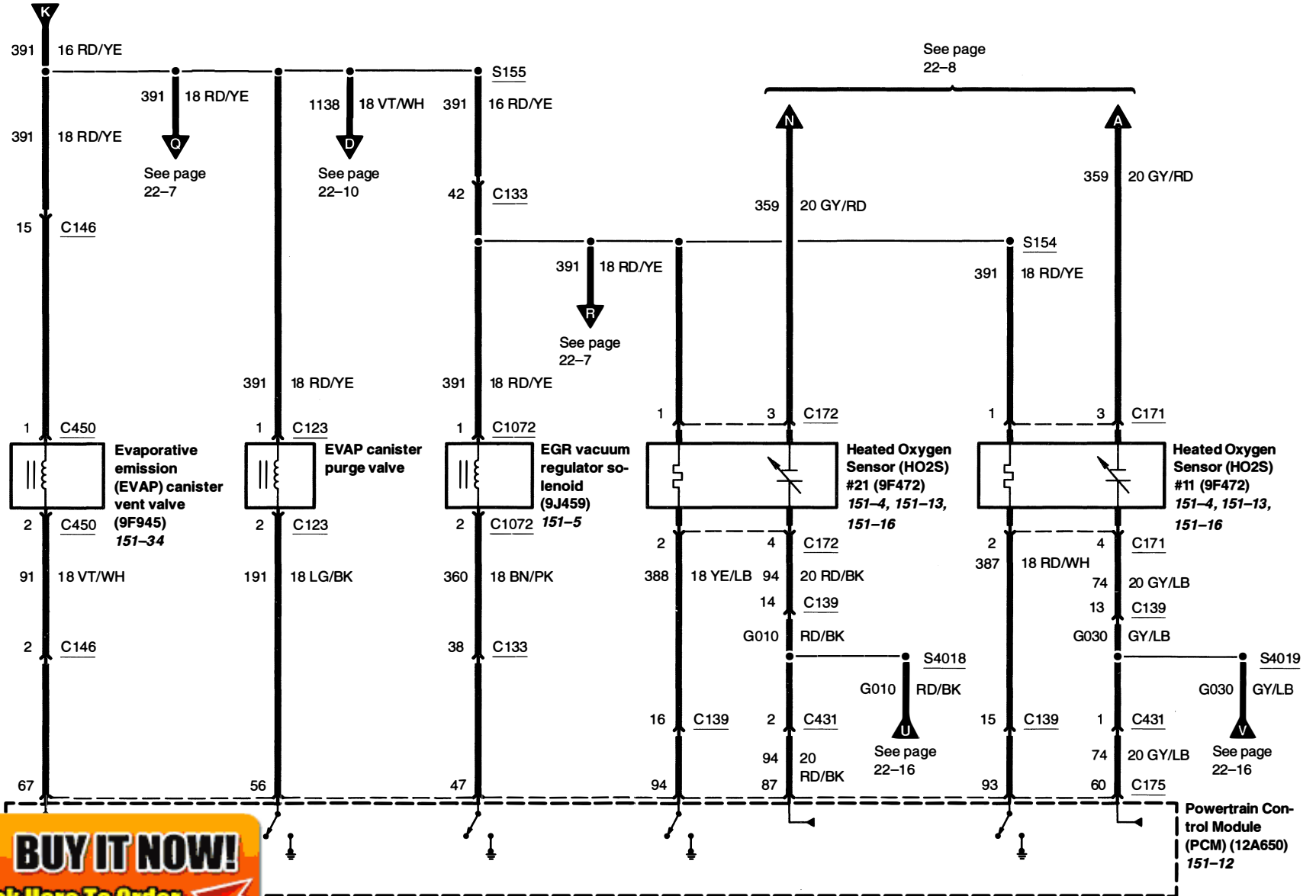
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5.4L Bi-Fuel

See page 22-3

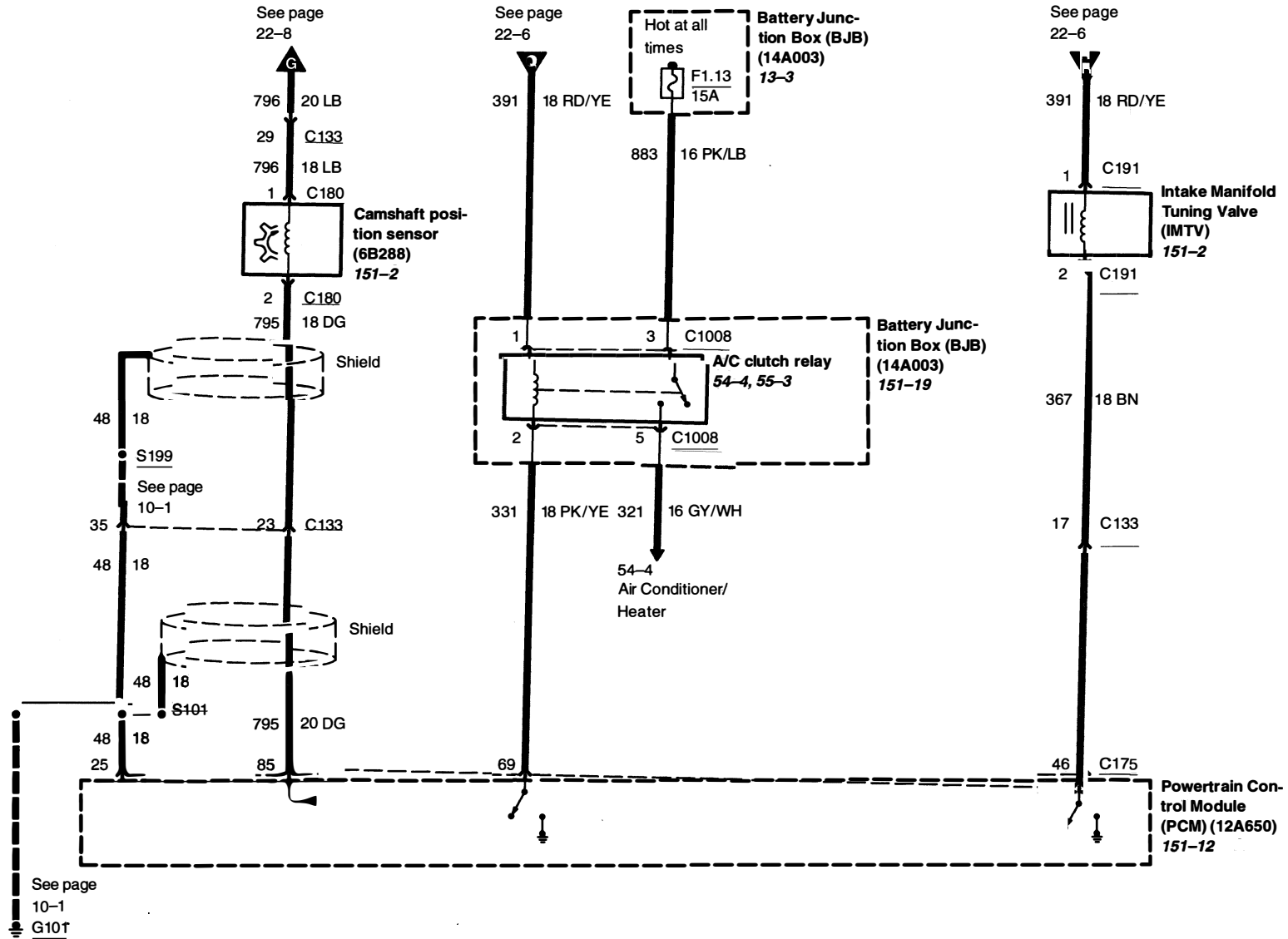


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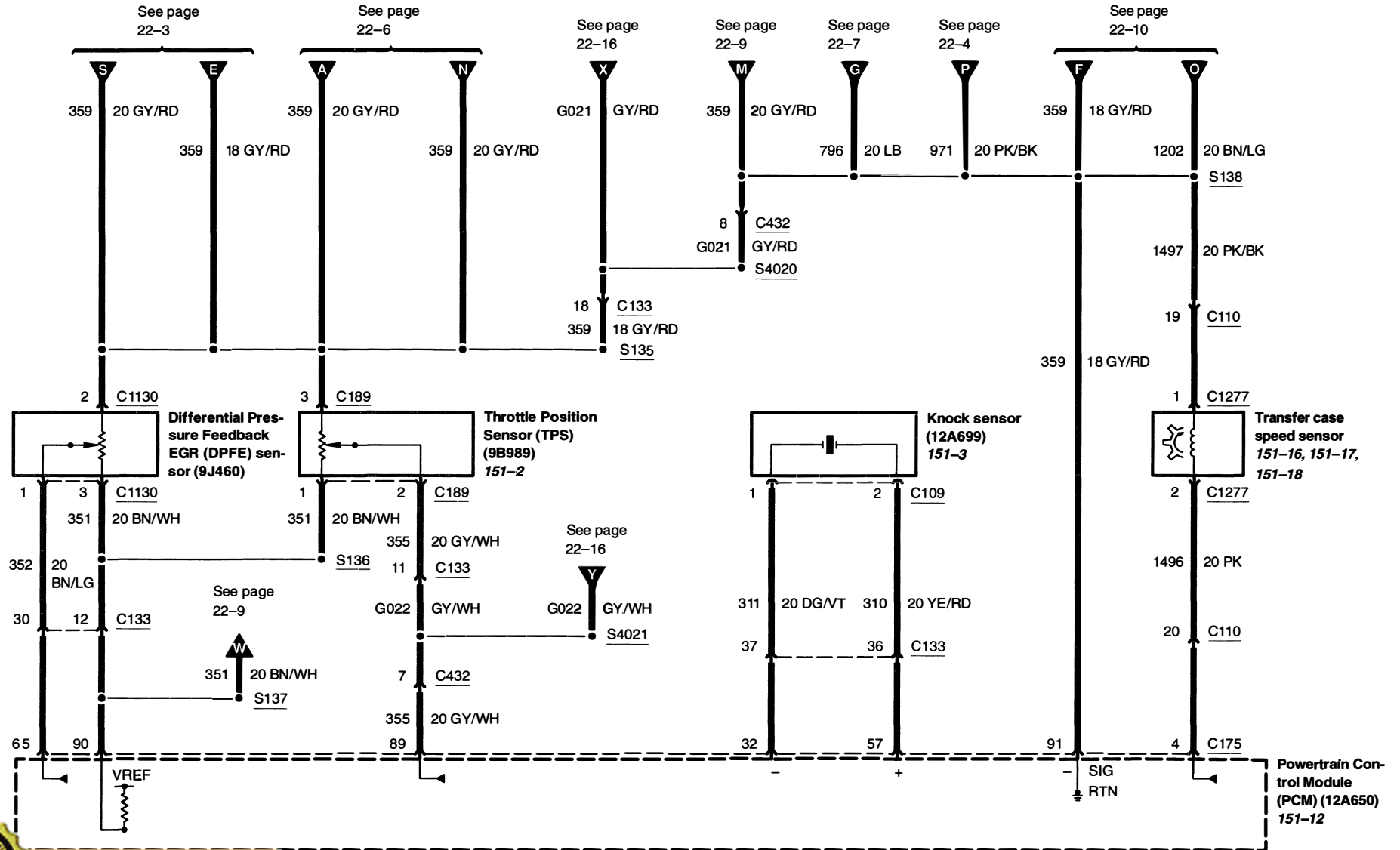
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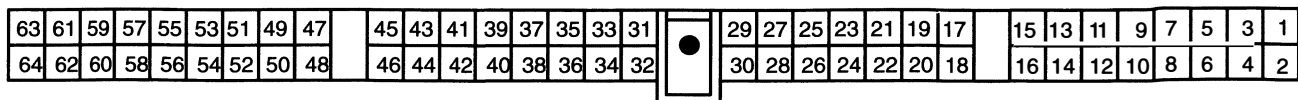
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**C1294** (BK)

**A3-288**

Compuvalve module



F66001

\* CNG  
\*\* LPG

Pin	Circuit	Circuit function
1	G001 (WH)	Coolant solenoid, signal
2	G002 (WH)	Voltage supplied at all times (overload protected)
3	*G003 (WH)	Tank valve 1, control
	**G003 (WH)	Lock off solenoid, control
4	G004 (WH)	Reference voltage
5	G005 (WH)	Fuel pump cutoff relay, control
6	*G006 (WH)	Fuel tank pressure transducer sensor (9C968), signal
	**G006 (WH)	Liquid Propane Gas (LPG) sender, signal
7	G007 (WH)	Cold start heater relay, control
8	*G008 (WH)	Fuel tank pressure transducer sensor (9C968), Signal return
	**G008 (WH)	Liquid Propane Gas (LPG) sender, Signal return
9	G009 (WH)	Voltage supplied in Start and Run (overload protected)
10	G010 (WH)	Heated Oxygen Sensor (HO2S) #21 (9F472), signal
11	G011 (WH)	Voltage supplied in Start and Run (overload protected)
12	G096 (WH)	not used
13	G013 (WH)	Voltage supplied in Start and Run (overload protected)
14	G086 (WH)	SCP Bus +
15	G015 (WH)	not used
	G085 (WH)	SCP Bus -

1, control

Pin	Circuit	Circuit function
18	G018 (WH)	not used
19	G019 (WH)	Low flow injector 2, control
20	-	not used
21	G021 (WH)	signal, return
22	G022 (WH)	Throttle Position Sensor (TPS) (9B989), signal
23	-	not used
24	G024 (WH)	not used
25	-	not used
26	G026 (WH)	Fuel tank temperature sensor, signal
27	G027 (WH)	not used
28	-	not used
29	-	not used
30	G030 (WH)	Heated Oxygen Sensor (HO2S) #11 (9F472), signal
31	-	not used
32	G032 (WH)	signal, return
33	-	not used
34	G830 (WH)	Crankshaft position sensor (6C315) -
35	-	not used
36	-	not used
37	-	not used
38	G831 (WH)	Crankshaft position sensor (6C315) +

Pin	Circuit	Circuit function
39	–	not used
40	–	not used
41	–	not used
42	G042 (WH)	not used
43	G043 (WH)	not used
44	–	not used
45	G045 (WH)	High flow injector 3, control
46	G046 (WH)	Indicator light switch, return
47	G047 (WH)	High flow injector 4, control
48	–	not used
49	G049 (WH)	High flow injector 5, control
50	G050 (WH)	Indicator light switch, switch, output
51	G051 (WH)	High flow injector 6, control
52	G052 (WH)	Indicator light switch, indicator, control
53	G053 (WH)	High flow injector 7, control
54	G054 (WH)	not used
55	G055 (WH)	High flow injector 8, control
56	G056 (WH)	not used
57	G057 (BK)	Ground
58	G058 (WH)	not used
59	G059 (BK)	Ground
60	G060 (WH)	not used
61	G061 (BK)	Ground
62	G062 (BK)	Ground
63	G063 (BK)	Ground
64	G064 (BK)	Ground



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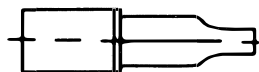




**C1295**

**A2-525**

Cold start heater



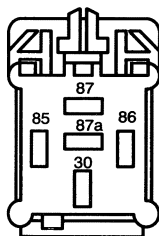
F01143

Pin	Circuit	Circuit function
1	G109 (WH)	Cold start heater relay, switched power, output

**C1296**

**A2-525**

Cold start heater relay



F05062

Pin	Circuit	Circuit function
30	G109 (WH)	Cold start heater relay, switched power, output
85	G007 (GY)	Cold start heater relay, control
86	G080 (WH)	Fuel pump, Power (Start or Run)
87	G002 (WH)	Voltage supplied at all times (overload protected)
-	-	not used

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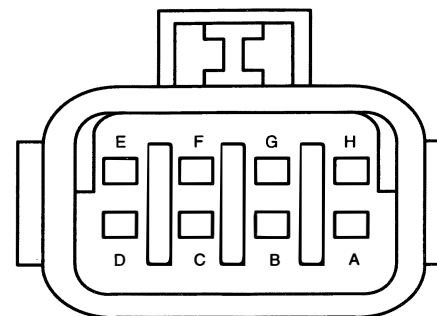
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**C1297** (BK)

**A3-288**

High flow injector assembly



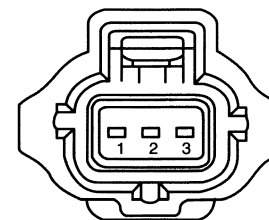
F08135

Pin	Circuit	Circuit function
A	G045 (WH)	High flow injector 3, control
B	G047 (WH)	High flow injector 4, control
C	G049 (WH)	High flow injector 5, control
D	G051 (WH)	High flow injector 6, control
E	G053 (WH)	High flow injector 7, control
F	G055 (WH)	High flow injector 8, control
G	G072 (WH)	Voltage supplied in Start and Run (overload protected)
H	G073 (WH)	Voltage supplied in Start and Run (overload protected)

**C1299** (BK)

**12B637**

Barometric Absolute Pressure (BAP) sensor



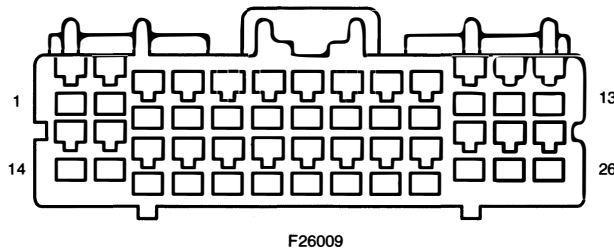
F03273

Pin	Circuit	Circuit function
1	351 (BN/WH)	Reference, voltage
2	359 (GY/RD)	signal, return
3	356 (DB/LG)	Barometric Absolute Pressure (BAP) sensor, signal

**C3076** (GY)

**14B079**

Video cassette player



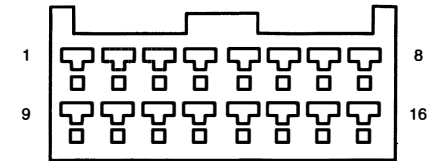
F26009

Pin	Circuit	Circuit function
1	(RD)	Audio signal positive, Left
2	(RD)	Audio signal positive, Right
3	-	not used
4	-	not used
5	-	not used
6	-	not used
7	-	not used
8	-	not used
9	-	not used
10	-	not used
11	(BK)	Shield
12	(RD)	video +
13	-	not used
14	(BK)	Shield
15	(BK)	Shield
16	-	not used
17	-	not used
18	-	not used
19	-	not used
20	-	not used
21	-	not used
22	-	not used
23	(WH)	Video cassette player, to, Rear Seat Entertainment module, signal
24	-	not used
25	-	not used
26	-	not used

**C3077a**

**14B079**

Rear Seat Entertainment (RSE) module



F16037

Pin	Circuit	Circuit function
1	(TN/LG)	Audio signal positive, left rear
2	(OG/RD)	Audio signal positive, right rear
3	(BN/PK)	Audio signal negative, right rear
4	-	not used
5	(TN/YE)	Audio signal negative, left rear
6	(GY/LB)	Audio signal positive, left rear
7	(TN/WH)	Audio signal positive, left rear
8	(BK/LG)	audio ground
9	(LG/BK)	Audio System ON (ASYSON)
10	(LG/VT)	Voltage supplied at all times (overload protected)
11	(BK)	audio/video ground
12	(LB/PK)	Audio corporate protocol A
13	(TN)	Audio corporate protocol B
14	(WH)	Video cassette player, to, Rear Seat Entertainment (RSE) module, signal
15	(BK)	Ground, Illumination
16	(LB/RD)	Illumination, feed

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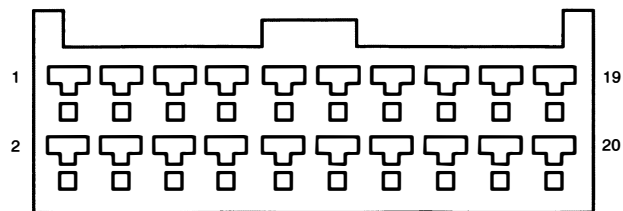
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**C3077b**

**14B079**

Rear Seat Entertainment (RSE) module



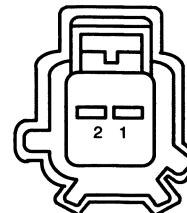
F20011

Pin	Circuit	Circuit function
1	(WH)	Audio signal positive, Left, input
2	-	not used
3	(BK)	Audio signal negative, Left, input
4	-	not used
5	(RD)	Audio signal positive, Right, input
6	-	not used
7	(GN)	Audio signal negative, Right, input
8	-	not used
9	-	not used
10	-	not used
11	-	not used
12	(RD)	video +
13	-	not used
14	(RD)	Audio signal positive, Left
15	-	not used
16	(RD)	Audio signal positive, Right
17	-	not used
18	(RD)	video + output
	-	not used

**C3084** (GY)

**14405**

Running board lamp, left front



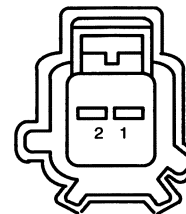
F02377

Pin	Circuit	Circuit function
1	57 (BK)	Ground
2	667 (WH/RD)	Interior lamp relay, switched power, output

**C3085** (GY)

**14405**

Running board lamp, left rear



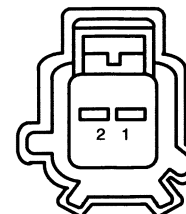
F02377

Pin	Circuit	Circuit function
1	57 (BK)	Ground
2	667 (WH/RD)	Interior lamp relay, switched power, output

**C3086** (GY)

**14405**

Running board lamp, right front



F02377

Pin	Circuit	Circuit function
1	57 (BK)	Ground
2	667 (WH/RD)	Interior lamp relay, switched power, output

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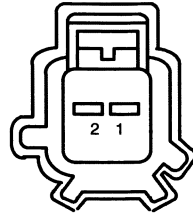
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**C3087** (GY)

**14405**

Running board lamp, right rear



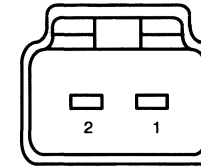
F02377

Pin	Circuit	Circuit function
1	57 (BK)	Ground
2	667 (WH/RD)	Interior lamp relay, switched power, output

**C3145** (BK)

**14687**

Rear window motor



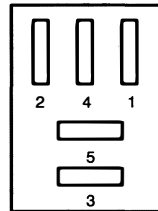
F02381

Pin	Circuit	Circuit function
1	404 (VT/LG)	Rear window motor – Open
2	405 (VT/LB)	Rear window motor – closed

**C3144**

**14A005**

Mirror turn signal relay, right



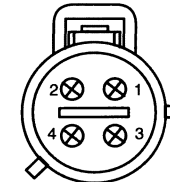
F05110

Pin	Circuit	Circuit function
1	57 (BK)	Ground
2	2 (WH/LB)	Turn lamps, feed, right front
3	956 (OG/LG)	Voltage supplied at all times (overload protected)
4	–	not used
5	1547 (RD)	Mirror turn signal relay, right, switched output

**C3146** (BK)

**15525**

Transfer case assembly



F04263

Pin	Circuit	Circuit function
1	–	not used
2	779 (BN)	Mechanical Shift On the Fly (MSOF) relay, switched output
3	–	not used
4	–	not used

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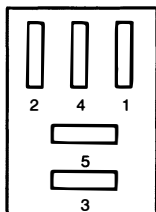
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**C3147**

**14A005**

Mirror turn signal relay, left



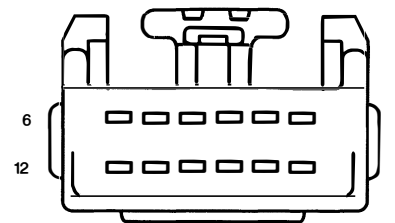
F05110

Pin	Circuit	Circuit function
1	57 (BK)	Ground
2	3 (LG/WH)	Turn lamps, feed, left front
3	956 (OG/LG)	Voltage supplied at all times (overload protected)
4	-	not used
5	1546 (PK)	Mirror turn signal relay, left, switched output

**C3191** (GY)

**14B084**

Heated seat module, driver side front (14C724)



F12075

Pin	Circuit	Circuit function
1	1057 (OG/BK)	Ground
2	-	not used
3	1061 (BN/LB)	Temperature, driver seat, return
4	1060 (BK/LB)	Temperature, driver seat, feed
5	294 (WH/LB)	Voltage in Run (overload protected)
6	1064 (YE/LB)	Heating element, feed
7	1067 (VT/LB)	Heating element, return
8	1020 (DG/VT)	Heated seat switch, driver side, On/Off signal
9	-	not used
10	461 (OG)	indicator, control
11	-	not used
12	1153 (RD/BK)	Voltage supplied at all times (overload protected)

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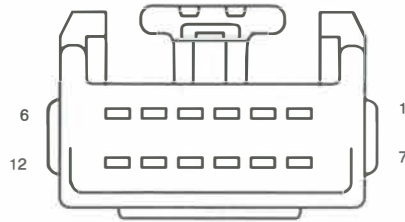
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**C3192** (GY)

**14B084**

Heated seat module, passenger side front



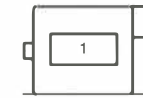
F12075

Pin	Circuit	Circuit function
1	1057 (OG/BK)	Ground
2	-	not used
3	1061 (BN/LB)	Temperature, passenger seat, return
4	1060 (BK/LB)	Temperature, passenger seat, feed
5	294 (WH/LB)	Voltage in Run (overload protected)
6	1064 (YE/LB)	Heating element, feed
7	1067 (VT/LB)	Heating element, return
8	1020 (DG/VT)	Heated seat switch, driver side, passenger side, On/Off signal
9	-	not used
10	461 (OG)	indicator, control
11	-	not used
12	1153 (RD/BK)	Voltage supplied at all times (overload protected)

**C3241b** (BN)

**18C619**

Rear window defrost grid (18C618)

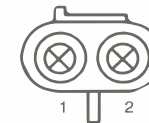


F01249

Pin	Circuit	Circuit function
1	57 (BK)	Ground

**C4000**

**A1-551**



F02663

- (1) (WH)
- (2) (WH)

**C3241a** (BN)

**18C619**

Rear window defrost grid (18C618)

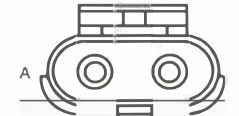


F01249

Circuit function
Window defrost relay, switched power, output

**C4001** (GY)

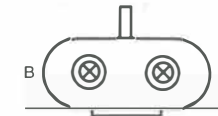
**A1-552**



F02673

- (A) (WH)
- (B) (WH)

**A3-198**



F02675

- (A) G080 (PK)
- (B) G081 (PK/BK)

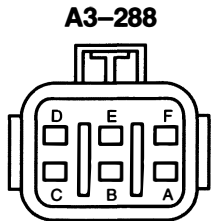
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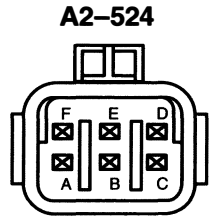
**C4002** (BK)

\* CNG  
\*\* LPG



F06377

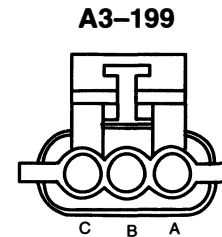
- (A) G008 (WH)
- (B) G006 (WH)
- (C) G004 (WH)
- (D) \*\*G080 (WH)
- (E) \*\*G007 (WH)
- (F) \*\*G003 (WH)



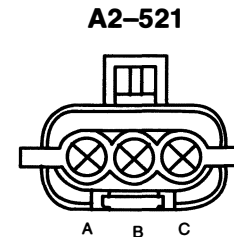
F06201

- (A) \*G008 (BK)
- (B) \*G006 (DG)
- (C) \*G004 (RD)
- (D) \*\*G080 (WH)
- (E) \*\*G007 (GY)
- (F) \*\*G003 (YE)

**C4013**



F03245



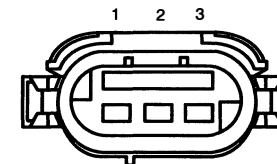
F03247

- (A) G050 (OG)
- (B) G046 (YE)
- (C) G052 (DG)

**C4032** (BK)

**13A409**

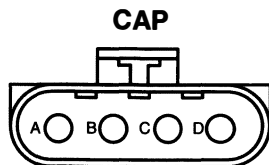
Park/stop/turn lamp,  
right rear



F03099

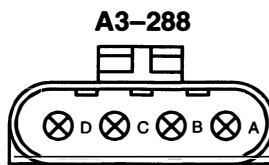
Pin	Circuit	Circuit function
1	57 (BK)	Ground
2	14 (BN)	Hot in Park or Head
3	5 (OG/LB)	Turn lamps, feed, right rear

**C4004** (BK)



F04431

(A) not used



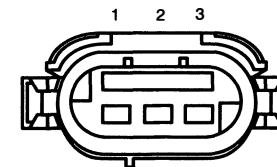
F04433

- (A) G054 (WH)
- (B) G056 (WH)
- (C) G058 (WH)
- (D) G060 (WH)

**C4035** (BK)

**13A409**

Park/stop/turn lamp,  
left rear



F03099

Pin	Circuit	Circuit function
1	57 (BK)	Ground
2	14 (BN)	Hot in Park or Head
3	9 (LG/OG)	Turn lamps, feed, left rear

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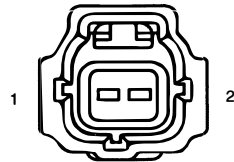
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**C4123**

**14406**

In-bed fuel tank valve, rear



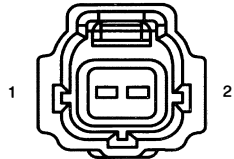
F02111

Pin	Circuit	Circuit function
1	57 (BK)	Ground
2	787 (PK/BK)	Fuel pump, Power

**C4124**

**14406**

In-bed fuel tank valve, front



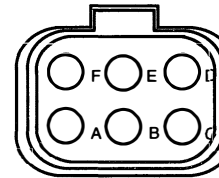
F02091

Pin	Circuit	Circuit function
1	57 (BK)	Ground
2	787 (PK/BK)	Fuel pump, Power

**C4125**

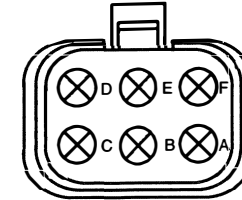
\* CNG  
\*\* LPG

**A3-198**



F06028

**A2-765**



F06029

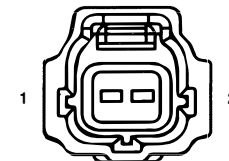
- (A) G008 (BK)
- (B) G006 (DG)
- (C) G004 (RD)
- (D) G080 (PK)
- (E) \*G026 (OG)
- (F) G003 (YE)

- (A) G008 (BK)
- (B) \*\*G006 (GN)
- (C) \*\*G004 (RD)
- (D) \*G080 (RD/LB)
- (E) \*G026 (OG)
- (F) \*G003 (YE)

**C4126**

**14406**

Midship fuel tank valve



F02091

Pin	Circuit	Circuit function
1	57 (BK)	Ground
2	787 (PK/BK)	Fuel pump, Power

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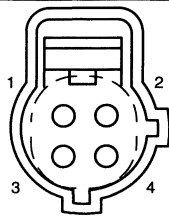
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**C4127**

**14406**

Natural Gas Vehicle (NGV) fuel tank pressure sensor

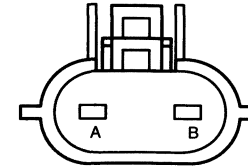


F04253

Pin	Circuit	Circuit function
1	1160 (BN/WH)	Reference voltage
2	1163 (BN)	signal, return
3	-	not used
4	1161 (DG/OG)	Sensor signal

**C4130**

**A2-766**



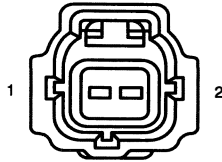
F02339

Pin	Circuit	Circuit function
A	G008 (BK)	Fuel tank pressure sensor, and, Fuel tank temperature sensor – Reference voltage
B	G026 (OG)	Fuel tank temperature sensor, signal

**C4128**

**14406**

Natural Gas Vehicle (NGV) fuel tank temperature sensor

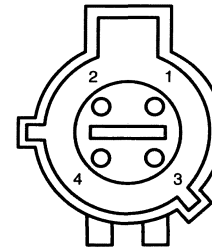


F02111

Pin	Circuit	Circuit function
1	1162 (LG/RD)	Fuel tank temperature sensor, signal
2	1163 (BN)	Signal return

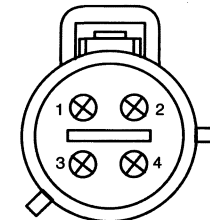
**C4131**

**14405**



F04082

**A2-520**



F04263

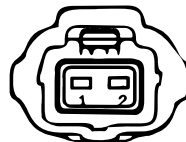
- (1) 787 (PK/BK)
- (2) 29 (YE/WH)
- (3) 396 (BK/OG)
- (4) 57 (BK)

- (1) G080 (PK)
- (2) G802-2 (WH)
- (3) G802-3 (WH)
- (4) G802-4 (WH)

**C4129**

**A2-766**

Tank valve 1



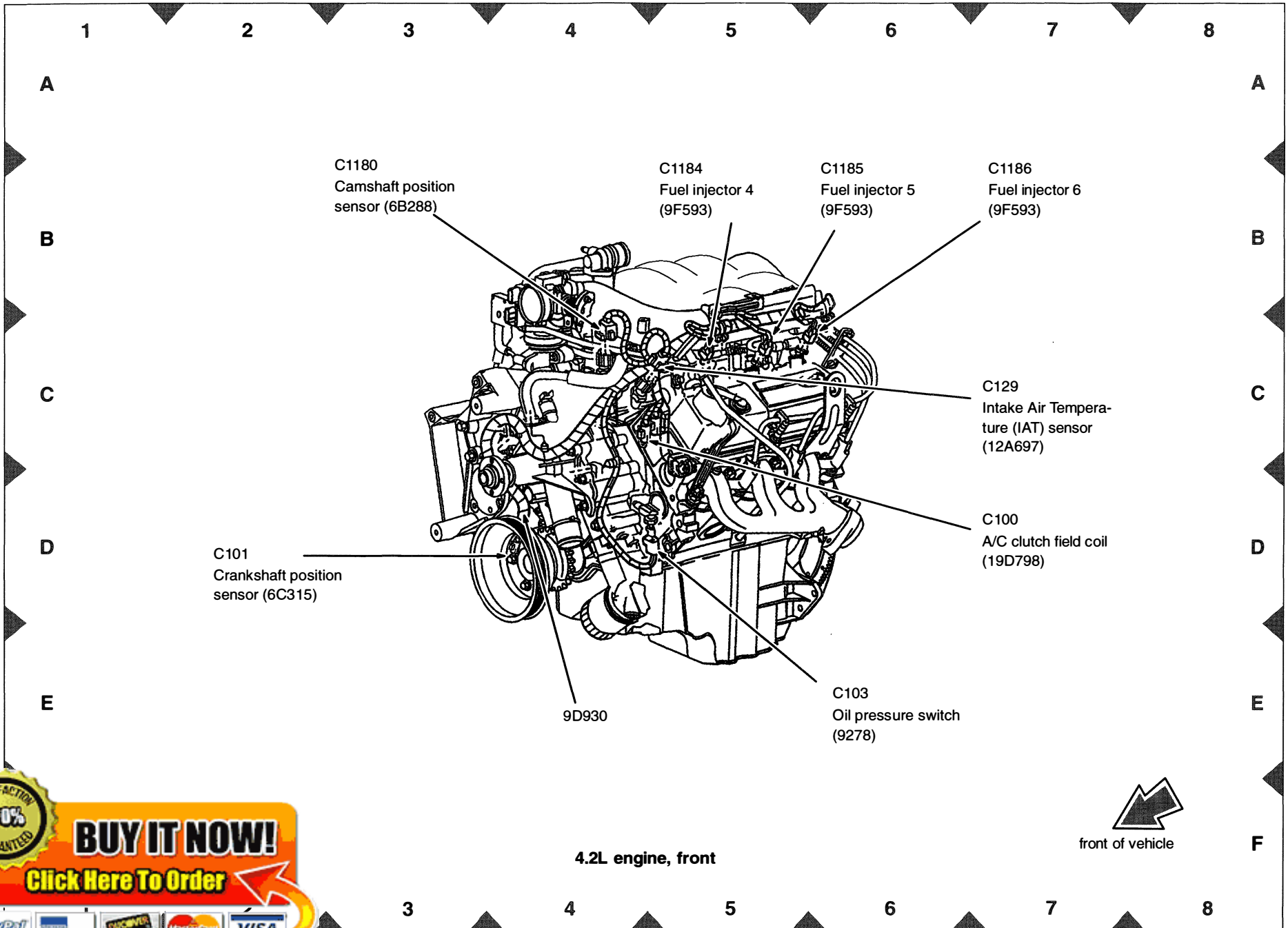
F02015

Pin	Circuit	Circuit function

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C1180  
Camshaft position  
sensor (6B288)

C1184  
Fuel injector 4  
(9F593)

C1185  
Fuel injector 5  
(9F593)

C1186  
Fuel injector 6  
(9F593)

C129  
Intake Air Tempera-  
ture (IAT) sensor  
(12A697)

C101  
Crankshaft position  
sensor (6C315)

C100  
A/C clutch field coil  
(19D798)

9D930

C103  
Oil pressure switch  
(9278)

4.2L engine, front

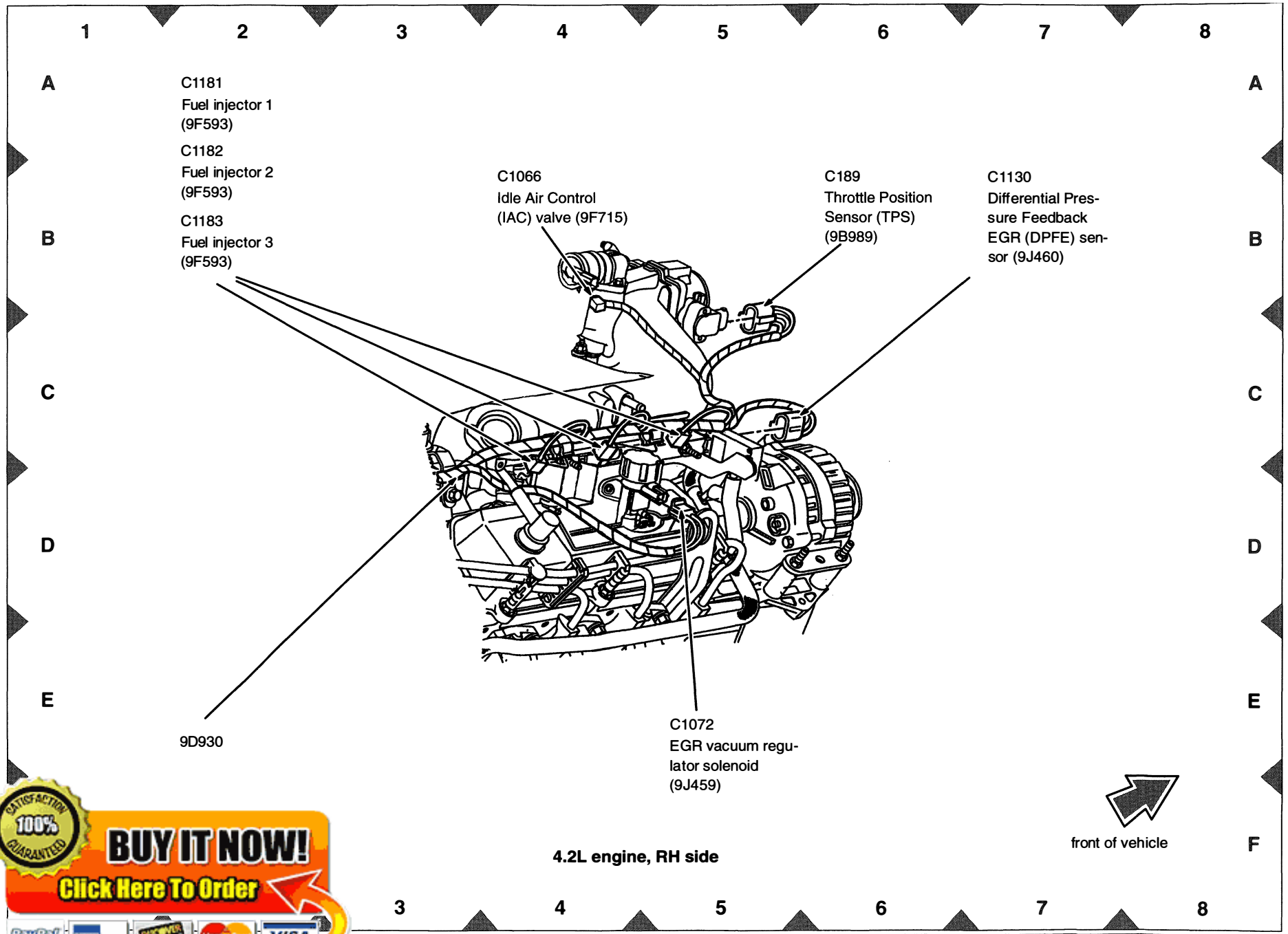


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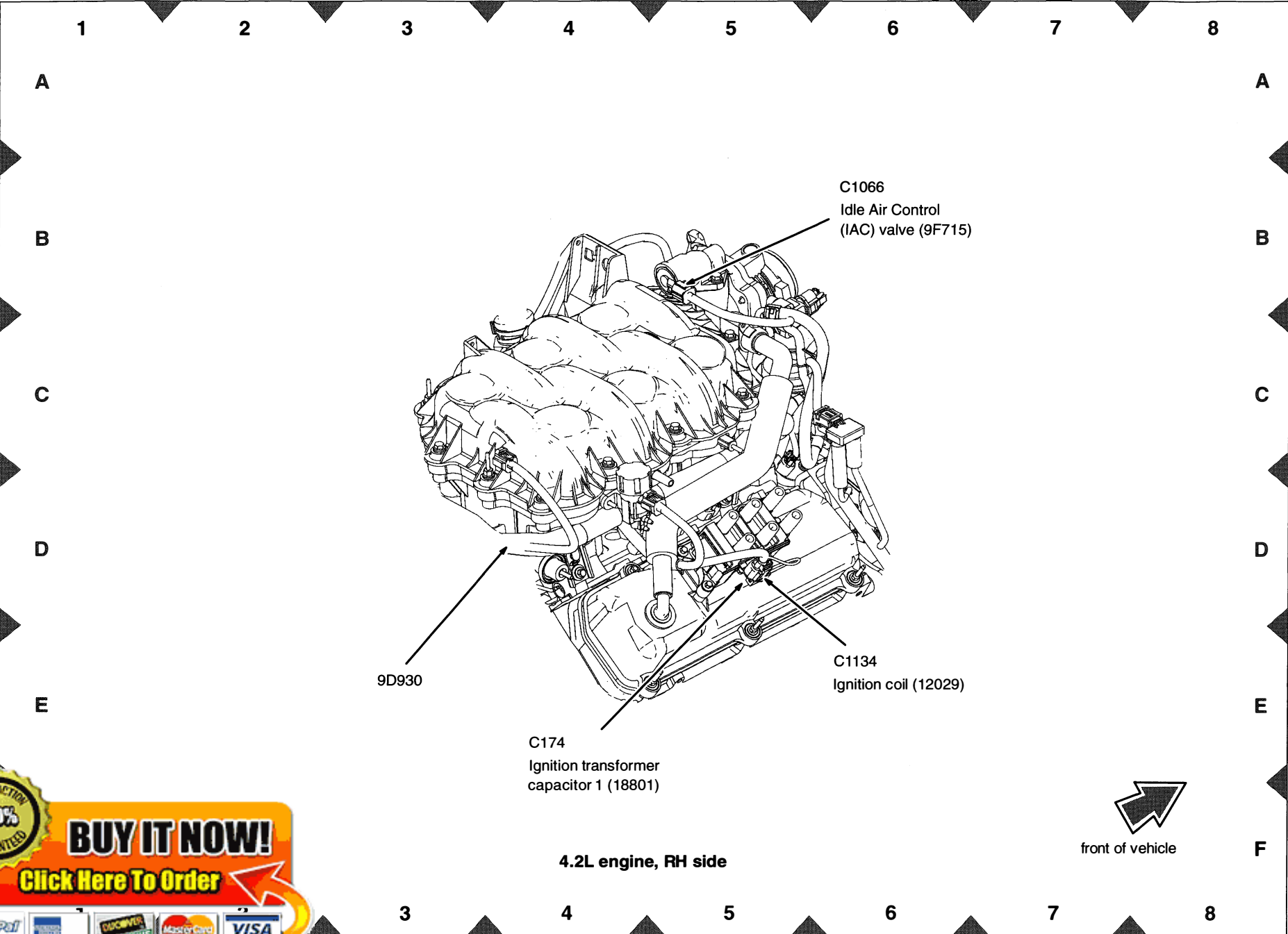


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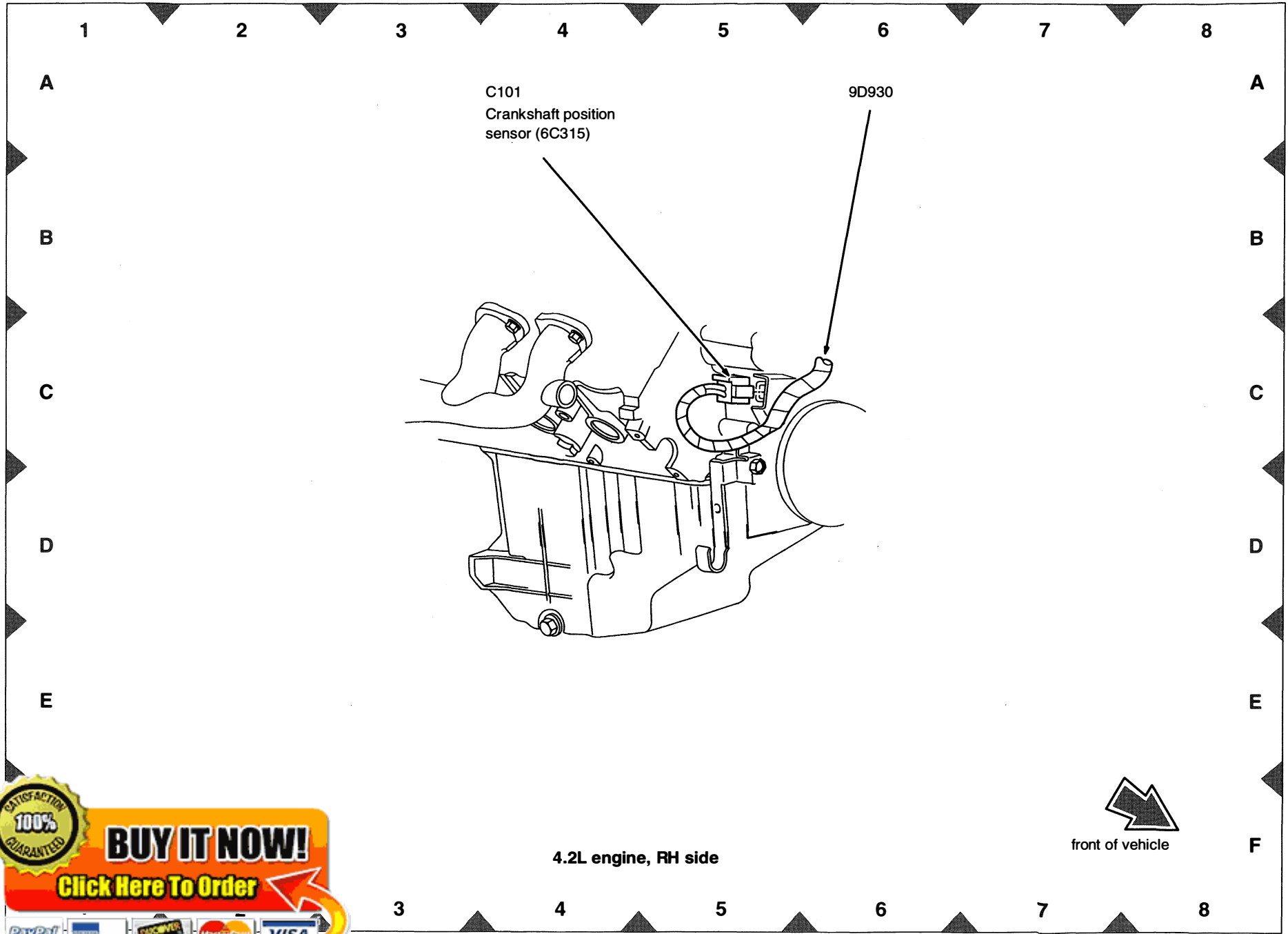
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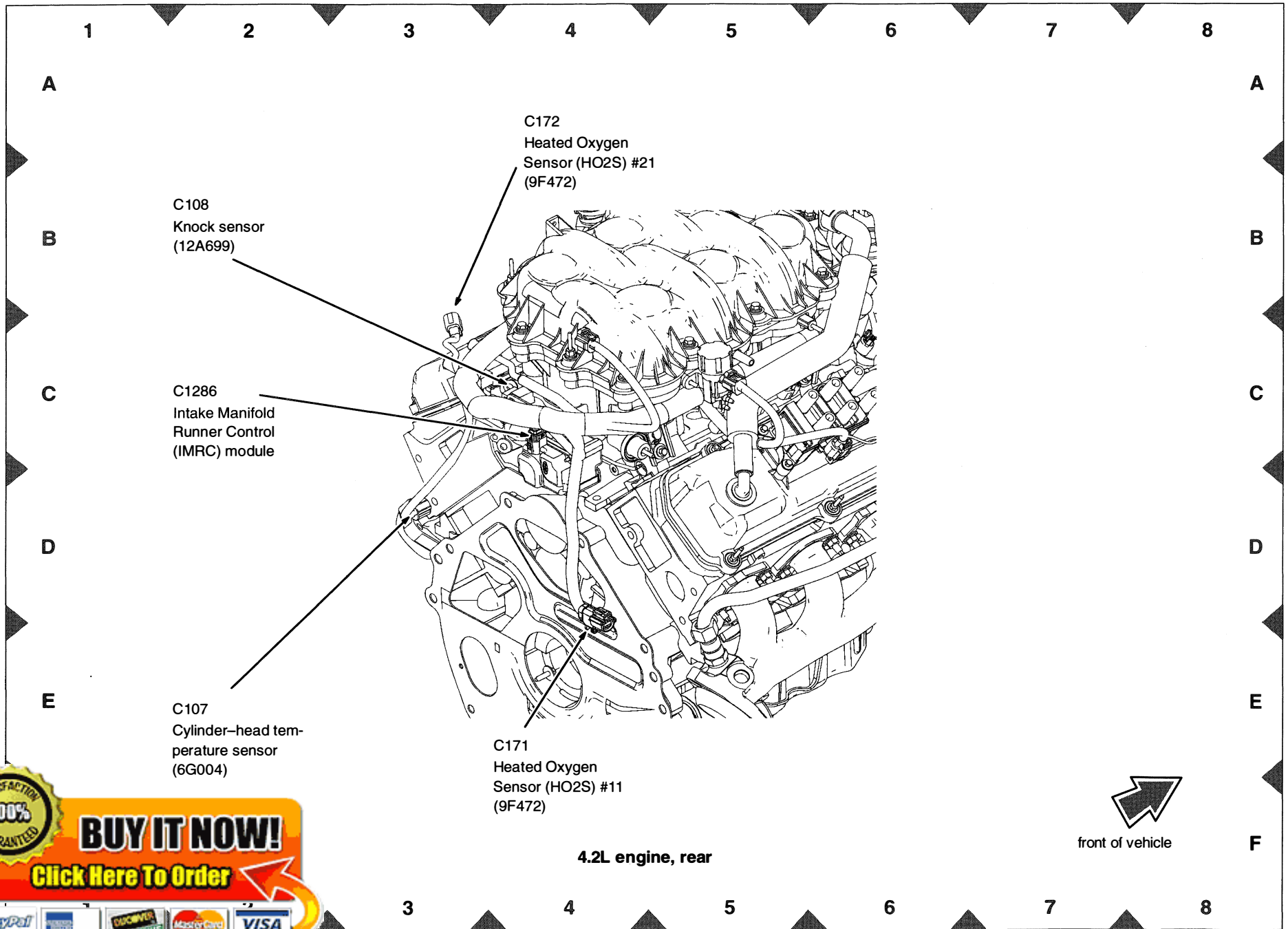


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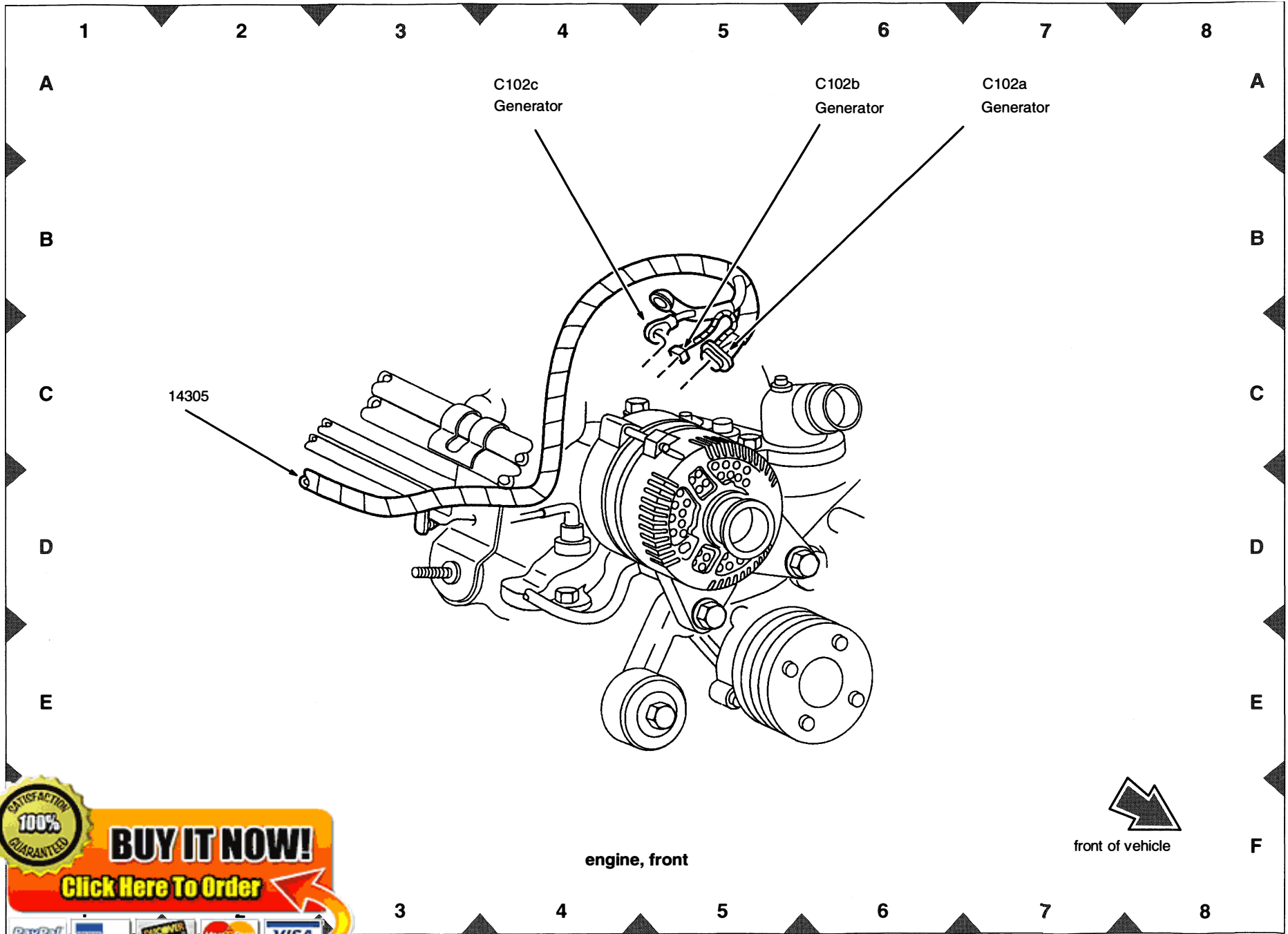


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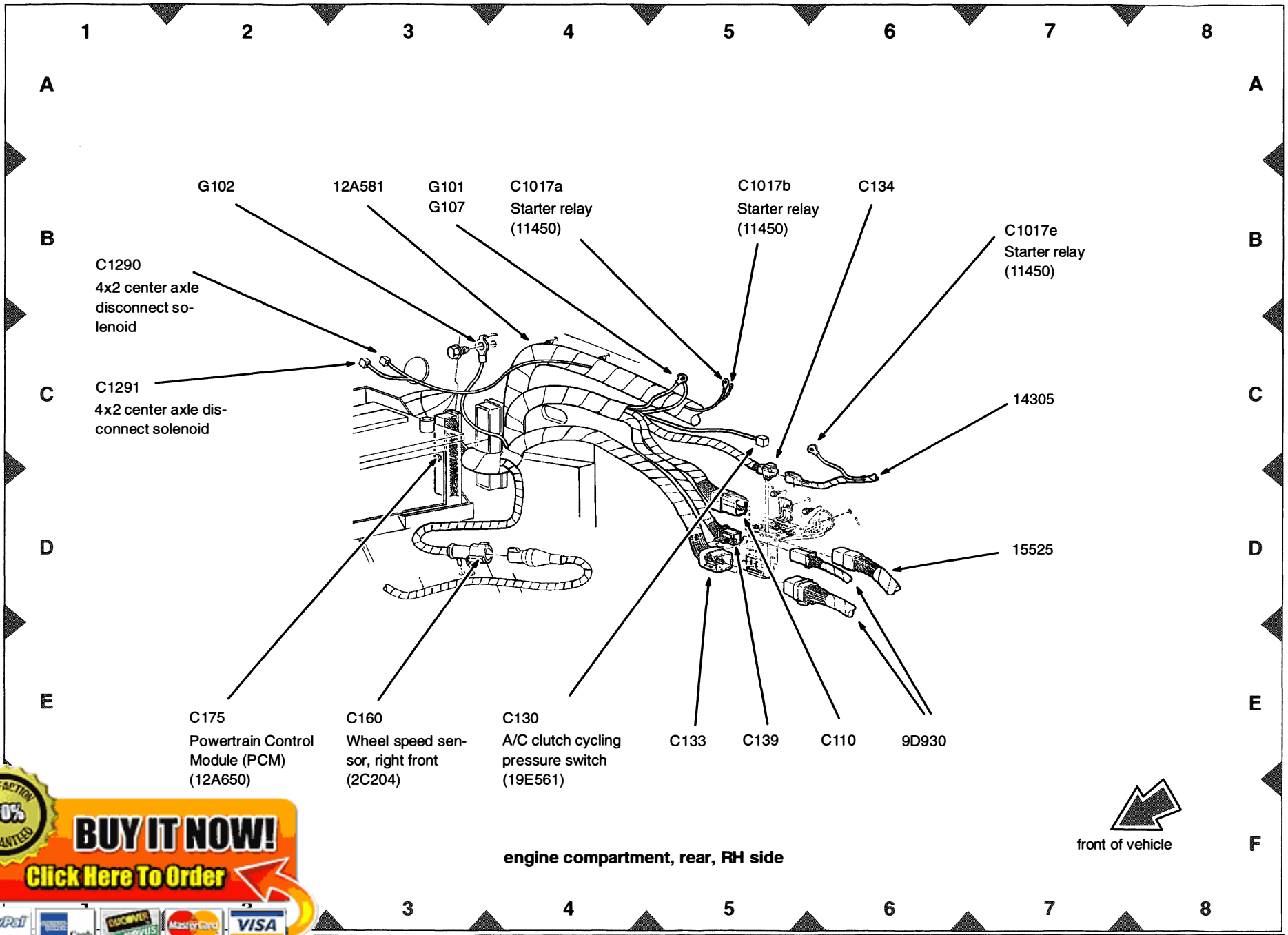


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