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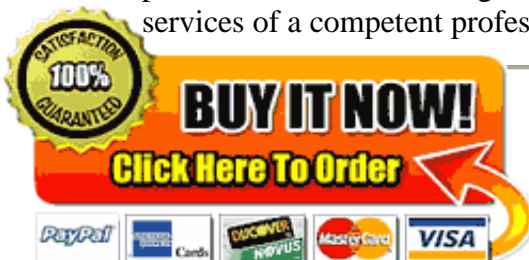
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Ford Customer Service Division has developed a new format for 2002 model year Wiring Diagrams. The features have been outlined below. It is important that you read the introduction to obtain a complete understanding of these features.

2002 Wiring Diagrams Features

- Pages are now presented in **landscape format**, 11 x 8 1/2.
- **Cell numbering** system is utilized.
- A **system overview** page now appears at the beginning of the cell of each major system. This page contains a high level overview of the connectivity of all components that make up a complete system.
- **Component operational information** now appears for components on each page of the system overview. This provides a brief description of how the component works.
- **Simplified component internal information** now appears on the system overview and schematic pages for solid state devices, as it is available from engineering.
- **Diagnostic test information** such as voltage and resistances values now appear on the system overview and schematic pages for solid state devices and sensors, as it is available from engineering.
- **Service base part numbers** now appear with all components.
- **Component location referencing** now appears where a component is shown complete on the schematic pages to provide a reference to the component location view.
- **Schematic page referencing** has been enhanced to provide a reference to where a splice or ground is shown complete. Additionally, in-cell referencing has been enhanced with letters to indicate that a circuit continues from one page to another within the same cell.
- All **connector views** are shown complete and located in Cell 150.
- **Component location views** are located in Cell 151 and are more specific, concentrating on select wiring and components for the area of the vehicle shown.

NOTE: The descriptions and specifications contained in this manual were in effect at the time this manual was published. Ford Motor Company reserves the right to discontinue models at any time, or to change specifications without notice and without incurring any obligation.

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F-150 Wiring Diagrams

Table of Contents	1-1	Instrument Cluster	60-1
Index	2-1	Warning Devices	66-1
Introduction	3-1	Illumination	71-1
Symbols	4-1	Wipers and Washers	81-1
Connector Repair Procedures	5-1	Headlamps	85-1
Systems Overview	8-1	Fog Lamps	86-1
Wiring Harness Overview	9-1	Autolamps	87-1
Grounds	10-1	Courtesy Lamps	89-1
Fuse and Relay Information	11-1	Turn/Stop/Hazard Lamps	90-1
Charging System	12-1	Exterior Lamps	92-1
Power Distribution	13-1	Reversing Lamps	93-1
Module Communications Network	14-1	Trailer/Camper Adapter	95-1
Starting System	20-1	Daytime Running Lamps	97-1
Engine Ignition	21-1	Power Windows	100-1
Engine Controls – 5.4L Bi-Fuel	22-1	Roof Opening Panel	101-1
Engine Controls – 4.2L	23-1	Overhead Console	102-1
Engine Controls – 4.6L	24-1	Power Door Locks	110-1
Engine Controls – 5.4L	25-1	Anti-Theft	112-1
Engine Controls – 5.4L NGV	26-1	Remote Control Alarm and Locks	117-1
Engine Controls – 5.4L supercharged	27-1	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
Heater	53-1	Component Location Views	151-1
Air Conditioner/Heater	54-1	Component Location Charts	152-1
.	55-1	Vehicle Repair Location Charts	160-1
.	59-1		

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4R100 transmission, A434	30-5	Auxiliary relay box 5, P157	13-9
4R70W transmission, A440	29-5	Auxiliary relay box 5, P157	90-6
4x2 center axle disconnect solenoid, Y274 – with Electronic Shift On the Fly (ESOF)	34-5	Barometric Absolute Pressure (BAP) sensor, B70 – 5.4L supercharged	27-9
4x2 center axle disconnect solenoid, Y274 – with Mechanical Shift On the Fly (MSOF)	34-6	Battery (10655), O1 – 5.4L supercharged	12-2
4x4 center axle disconnect solenoid, Y275 – with Electronic Shift On the Fly (ESOF)	34-5	Battery (10655), O1	12-1
4x4 center axle disconnect solenoid, Y275 – with Mechanical Shift On the Fly (MSOF)	34-6	Battery Junction Box (BJB) (14A003), P93	13-1
4x4 High/Low indicator switch, N628	34-6	Battery saver relay, K115	59-3
A/C clutch cycling pressure switch (19D594), N412	54-3	Belt minder module, A277	66-2
A/C clutch cycling pressure switch (19D594), N412	55-4	Bi-Fuel power relay, K312	22-11
A/C clutch relay, K107	54-4	Bi-Fuel relay module, A235	22-11
A/C clutch relay, K107	55-3	Bi-Fuel relay module, A235	22-12
A/C clutch solenoid, Y31	54-4	Blower motor relay, K73	54-2
A/C Compressor clutch diode, V7 – with EATC	55-3	Blower motor relay, K73	55-2
A/C Compressor clutch diode, V7 – with manual A/C	54-4	Blower motor resistor, R116	54-2
A/C high pressure switch (19D594), N126	54-3	Brake fluid level switch (2L414), N1	42-1
A/C high pressure switch (19D594), N126	55-4	Brake pedal position switch (13480), N82	90-4
ABS control module (2C219), A7	42-1	Brake pedal position switch (13480), N82	90-5
Accessory delay relay, K126	100-2	Brake pressure switch (2B264), N249	31-3
Accessory delay relay, K126	59-3	Brake shift interlock, Y215	37-1
Adjustable pedal motor (2C429), M236	127-1	Camshaft position sensor (6B288), B41 – 4.2L	23-7
Adjustable pedal switch, N449	127-1	Camshaft position sensor (6B288), B41 – 4.6L	24-7
Air bag sliding contact (14A664), P140	31-2	Camshaft position sensor (6B288), B41 – 5.4L	25-7
Ambient air temperature sensor (19E702), B203	102-1	Camshaft position sensor (6B288), B41 – 5.4L NGV	26-7
Ambient air temperature sensor (19E702), B203	55-3	Camshaft position sensor (6B288), B41 – 5.4L supercharged	27-8
Ashtray illumination lamp, E39	71-1	Cargo lamp 1, E226	89-4
Autolamp sensor, B202	87-2	Cargo lamp 2, E227	89-4
Auxiliary relay box 1, P111	27-10	CD changer (18D806), A144 – Harley Davidson	130-6
Auxiliary relay box 2, P112	97-2	CD changer (18D806), A144 – with CD changer	130-5
Auxiliary relay box 3, P113	87-2	CD changer (18D806), A144 – With Rear Seat Entertainment (RSE) system	130-8
Auxiliary relay box 4, P114	13-16	Central Junction Box (CJB) (14A068), P91	13-8
Auxiliary relay box 5, P157	54-2	Central security module, A262	117-2
Auxiliary relay box 5, P157	90-6	Central Timer Module (CTM), A38	59-1
		Charge air cooler pump motor, M275	27-12
		Charge air cooler pump relay, K372	27-12

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Cigar lighter, front (15055), R42	44-2	Differential pressure feedback EGR (DPFE) sensor (9J460), B257 - 5.4L Bi-Fuel	22-8
Clutch pedal position switch, N81	20-1	Differential pressure feedback EGR (DPFE) sensor (9J460), B257 - 5.4L supercharged	27-9
Clutch triple function switch jumper, P5 - Automatic	20-2	Digital Transmission Range (DTR) sensor (7F293), B234 - 4R100	30-4
Coil On Plug (COP) 1 (12029), P66	21-5	Digital Transmission Range (DTR) sensor (7F293), B234 - 4R70W	29-4
Coil On Plug (COP) 2 (12029), P67	21-5	Door ajar switch, driver side rear (14018), N237	66-1
Coil On Plug (COP) 3 (12029), P68	21-5	Door ajar switch, left front, N84	66-1
Coil On Plug (COP) 4 (12029), P69	21-5	Door ajar switch, passenger side rear (14018), N238	66-1
Coil On Plug (COP) 5 (12029), P70	21-5	Door ajar switch, right front, N85	66-1
Coil On Plug (COP) 6 (12029), P71	21-5	Door entry lamp, left front (13776), E177	89-2
Coil On Plug (COP) 7 (12029), P72	21-5	Door entry lamp, right front (13776), E178	89-2
Coil On Plug (COP) 8 (12029), P73	21-5	Door lock actuator, left front, M241	110-1
Cold start heater, R122	22-15	Door lock actuator, left rear (218A43), M64	110-1
Cold start heater diode, V63 - 5.4L Bi-Fuel, LPG	22-15	Door lock actuator, right front, M242	110-1
Cold start heater relay, K387	22-15	Door lock actuator, right rear (218A42), M65	110-1
Compuvalve module, A236	22-11	Door lock switch, driver side (14028), N204	110-1
Crankshaft position sensor (6C315), B43 - Bi-Fuel	21-6	Door lock switch, passenger side (14028), N205	110-1
Crankshaft position sensor (6C315), B43	21-3	Driver air bag unit (78043B13), A42	46-2
Crash fuel shutoff relay, K228	27-10	Driver safety belt retractor pretensioner, A225	46-1
Cylinder-head temperature sensor (6G004), B135 - 4.2L	23-3	Dropping resistor, R31	27-10
Cylinder-head temperature sensor (6G004), B135 - 4.6L	24-3	EGR vacuum regulator solenoid (9J459), Y205 - 4.2L	23-6
Cylinder-head temperature sensor (6G004), B135 - 5.4L	25-3	EGR vacuum regulator solenoid (9J459), Y205 - 4.6L	24-6
Cylinder-head temperature sensor (6G004), B135 - 5.4L Bi-Fuel	22-3	EGR vacuum regulator solenoid (9J459), Y205 - 5.4L	25-6
Cylinder-head temperature sensor (6G004), B135 - 5.4L NGV	26-3	EGR vacuum regulator solenoid (9J459), Y205 - 5.4L Bi-Fuel	22-6
Cylinder-head temperature sensor (6G004), B135 - 5.4L supercharged	27-4	EGR vacuum regulator solenoid (9J459), Y205 - 5.4L supercharged	27-7
Data Link Connector (DLC) (14489), D20	14-2	Electrochromatic inside mirror unit (17700), A222	125-1
Daytime Running Lamps (DRL) relay 1, K370	97-2	Electronic Automatic Temperature Control (EATC) module (19980), A205	55-2
Daytime Running Lamps (DRL) relay 2, K371	97-2	Engine compartment lamp, E27	89-2
Daytime running lamps resistor, R5	97-2	EVAP canister purge valve, Y134 - 4.2L	23-6
Differential pressure feedback EGR (DPFE) sensor (9J460), B257 - 4.2L	23-8	EVAP canister purge valve, Y134 - 4.6L	24-6
Differential pressure feedback EGR (DPFE) sensor (9J460), B257 - 4.6L	24-8	EVAP canister purge valve, Y134 - 5.4L	25-6
Differential pressure feedback EGR (DPFE) sensor (9J460), B257 - 6L	25-8		

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EVAP canister purge valve, Y134 – 5.4L Bi-Fuel	22-6	F1.23 – 4.2L	23-3
EVAP canister purge valve, Y134 – 5.4L supercharged	27-7	F1.23 – 4.6L	24-3
Evaporative emission (EVAP) canister vent valve (9F945), Y131 – 4.2L	23-6	F1.23 – 5.4L	25-3
Evaporative emission (EVAP) canister vent valve (9F945), Y131 – 4.6L	24-6	F1.23 – 5.4L Bi-Fuel	22-3
Evaporative emission (EVAP) canister vent valve (9F945), Y131 – 5.4L	25-6	F1.23 – 5.4L supercharged	27-4
Evaporative emission (EVAP) canister vent valve (9F945), Y131 – 5.4L Bi-Fuel	22-6	F1.101	13-3
Evaporative emission (EVAP) canister vent valve (9F945), Y131 – 5.4L supercharged	27-7	F1.102	13-3
Exterior rear view mirror, driver side (17682), M220	124-1	F1.103	13-4
Exterior rear view mirror, passenger side (17683), M221	124-1	F1.104	13-5
Exterior rear view mirror switch (17B676), N409	124-1	F1.105	13-4
F1.1	13-3	F1.106	13-5
F1.2	13-6	F1.108	13-6
F1.3	13-19	F1.110	13-6
F1.3	13-2	F1.111	13-4
F1.4	13-2	F1.111	13-7
F1.5	13-1	F1.112	13-4
F1.6	13-19	F1.113	13-4
F1.6	13-2	F1.113	13-7
F1.7	13-2	F1.115	13-6
F1.8	13-6	F1.118	13-5
F1.9	13-3	F1.601	13-6
F1.10	13-4	F2.1	13-8
F1.11	13-1	F2.2	13-8
F1.12	13-5	F2.3	13-8
F1.13	13-3	F2.4	13-9
F1.15	89-6	F2.5	13-10
F1.18 – 4.2L	23-3	F2.6	13-10
F1.18 – 4.6L	24-3	F2.8	13-11
F1.19	25-3	F2.13	13-9
F1.20	22-3	F2.11	13-11
F1.21	27-4	F2.14	13-9
		F2.15	13-9
		F2.16	85-1
		F2.18	13-12
		F2.20	13-15
		F2.21	13-15

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F2.22	13-15	Fuel injector 4 (9F593), Y111 - 4.6L	24-5
F2.23	13-16	Fuel injector 4 (9F593), Y111 - 5.4L	25-5
F2.24	13-16	Fuel injector 4 (9F593), Y111 - 5.4L Bi-Fuel	22-5
F2.26	85-1	Fuel injector 4 (9F593), Y111 - 5.4L NGV	26-5
F2.27	85-1	Fuel injector 4 (9F593), Y111 - 5.4L supercharged	27-6
F2.28	85-1	Fuel injector 5 (9F593), Y112 - 4.2L	23-5
F2.29	13-13	Fuel injector 5 (9F593), Y112 - 4.6L	24-5
F2.30	13-13	Fuel injector 5 (9F593), Y112 - 5.4L	25-5
F3.1	22-11	Fuel injector 5 (9F593), Y112 - 5.4L Bi-Fuel	22-5
F3.2	22-11	Fuel injector 5 (9F593), Y112 - 5.4L NGV	26-5
Fog lamp, left front (15200), E43	86-2	Fuel injector 5 (9F593), Y112 - 5.4L supercharged	27-6
Fog lamp, right front (15200), E42	86-2	Fuel injector 6 (9F593), Y113 - 4.2L	23-5
Fog lamp relay, K26	86-2	Fuel injector 6 (9F593), Y113 - 4.6L	24-5
Four-wheel drive switch, N141	34-3	Fuel injector 6 (9F593), Y113 - 5.4L	25-5
Front blower motor (19805), M124	54-2	Fuel injector 6 (9F593), Y113 - 5.4L Bi-Fuel	22-5
Front blower motor (19805), M124	55-4	Fuel injector 6 (9F593), Y113 - 5.4L NGV	26-5
Front blower motor speed controller (19E624), M200	55-2	Fuel injector 6 (9F593), Y113 - 5.4L supercharged	27-6
Fuel injector 1 (9F593), Y108 - 4.2L	23-5	Fuel injector 7 (9F593), Y207 - 4.6L	24-4
Fuel injector 1 (9F593), Y108 - 4.6L	24-5	Fuel injector 7 (9F593), Y207 - 5.4L	25-4
Fuel injector 1 (9F593), Y108 - 5.4L	25-5	Fuel injector 7 (9F593), Y207 - 5.4L Bi-Fuel	22-4
Fuel injector 1 (9F593), Y108 - 5.4L Bi-Fuel	22-5	Fuel injector 7 (9F593), Y207 - 5.4L NGV	26-4
Fuel injector 1 (9F593), Y108 - 5.4L NGV	26-5	Fuel injector 7 (9F593), Y207 - 5.4L supercharged	27-5
Fuel injector 1 (9F593), Y108 - 5.4L supercharged	27-6	Fuel injector 8 (9F593), Y209 - 4.6L	24-4
Fuel injector 2 (9F593), Y109 - 4.2L	23-5	Fuel injector 8 (9F593), Y209 - 5.4L	25-4
Fuel injector 2 (9F593), Y109 - 4.6L	24-5	Fuel injector 8 (9F593), Y209 - 5.4L Bi-Fuel	22-4
Fuel injector 2 (9F593), Y109 - 5.4L	25-5	Fuel injector 8 (9F593), Y209 - 5.4L NGV	26-4
Fuel injector 2 (9F593), Y109 - 5.4L Bi-Fuel	22-5	Fuel injector 8 (9F593), Y209 - 5.4L supercharged	27-5
Fuel injector 2 (9F593), Y109 - 5.4L NGV	26-5	Fuel pump, M12 - 4.2L	23-9
Fuel injector 2 (9F593), Y109 - 5.4L supercharged	27-6	Fuel pump, M12 - 4.6L	24-9
Fuel injector 3 (9F593), Y110 - 4.2L	23-5	Fuel pump, M12 - 5.4L	25-9
Fuel injector 3 (9F593), Y110 - 4.6L	24-5	Fuel pump, M12 - 5.4L Bi-Fuel	22-9
Fuel injector 3 (9F593), Y110 - 5.4L	25-5	Fuel pump, M12 - 5.4L supercharged	27-10
Fuel injector 3 (9F593), Y110 - 5.4L Bi-Fuel	22-5	Fuel pump cutoff relay, K233	22-11
Fuel injector 3 (9F593), Y110 - 5.4L NGV	26-5	Fuel pump high/low relay, K373	27-13
Fuel injector 3 (9F593), Y110 - 5.4L supercharged	27-6	Fuel pump module, A240 - 4.2L	23-9
Fuel injector 3 (9F593), Y110 - 2L	23-5	Fuel pump module, A240 - 4.6L	24-9

Fuel pump module, A240 – 5.4L	25–9	G400	10–12
Fuel pump module, A240 – 5.4L Bi-Fuel	22–13	Generator, O5 – 5.4L supercharged	12–2
Fuel pump relay, K4 – 4.6L	24–9	Generator, O5	12–1
Fuel pump relay, K4 – 5.4L	25–9	Generic Electronic Module (GEM) (14B205), A112	59–1
Fuel pump relay, K4 – 5.4L Bi-Fuel	22–9	Glove box lamp (14413), E28	89–2
Fuel pump relay, K4 – 5.4L NGV	26–9	Headlamp, left (13008), E1	85–2
Fuel pump relay, K4 – 5.4L supercharged	27–10	Headlamp, left (13008), E1	87–5
Fuel rail cutoff valve, Y257	26–9	Headlamp, right (13008), E7	85–2
Fuel rail temperature sensor, B280	26–9	Headlamp, right (13008), E7	87–5
Fuel tank pressure transducer sensor (9C968), B113 – 4.2L	23–9	Headlamp relay, K53	87–2
Fuel tank pressure transducer sensor (9C968), B113 – 4.6L	24–9	Heated Oxygen Sensor (HO2S) #11 (9F472), B48 – 4.2L	23–6
Fuel tank pressure transducer sensor (9C968), B113 – 5.4L	25–9	Heated Oxygen Sensor (HO2S) #11 (9F472), B48 – 4.6L	24–6
Fuel tank pressure transducer sensor (9C968), B113 – 5.4L Bi-Fuel, CNG	22–14	Heated Oxygen Sensor (HO2S) #11 (9F472), B48 – 5.4L	25–6
Fuel tank pressure transducer sensor (9C968), B113 – 5.4L Bi-Fuel	22–9	Heated Oxygen Sensor (HO2S) #11 (9F472), B48 – 5.4L Bi-Fuel	22–6
Fuel tank pressure transducer sensor (9C968), B113 – 5.4L supercharged	27–13	Heated Oxygen Sensor (HO2S) #11 (9F472), B48 – 5.4L NGV	26–6
Fuel tank temperature sensor, B233 – 5.4L Bi-Fuel, CNG	22–14	Heated Oxygen Sensor (HO2S) #11 (9F472), B48 – 5.4L supercharged	27–7
Function selector switch assembly, P76	54–2	Heated Oxygen Sensor (HO2S) #12 (9G444), B88 – 4.2L	23–10
Fusible link A, O26 – 5.4L supercharged	12–2	Heated Oxygen Sensor (HO2S) #12 (9G444), B88 – 4.6L	24–10
Fusible link A, O26	12–1	Heated Oxygen Sensor (HO2S) #12 (9G444), B88 – 5.4L	25–10
Fusible link B, O27 – 5.4L supercharged	12–2	Heated Oxygen Sensor (HO2S) #12 (9G444), B88 – 5.4L Bi-Fuel	22–10
Fusible link B, O27	12–1	Heated Oxygen Sensor (HO2S) #12 (9G444), B88 – 5.4L supercharged	27–11
Fusible link C, O28	22–15	Heated Oxygen Sensor (HO2S) #21 (9F472), B47 – 4.2L	23–6
G100	10–1	Heated Oxygen Sensor (HO2S) #21 (9F472), B47 – 4.6L	24–6
G101	10–1	Heated Oxygen Sensor (HO2S) #21 (9F472), B47 – 5.4L	25–6
G101	10–2	Heated Oxygen Sensor (HO2S) #21 (9F472), B47 – 5.4L Bi-Fuel	22–6
G102	10–3	Heated Oxygen Sensor (HO2S) #21 (9F472), B47 – 5.4L NGV	26–6
G103	10–6	Heated Oxygen Sensor (HO2S) #21 (9F472), B47 – 5.4L supercharged	27–7
G104	10–7	Heated Oxygen Sensor (HO2S) #22 (9G444), B87 – 4.2L	23–10
G105	10–1	Heated Oxygen Sensor (HO2S) #22 (9G444), B87 – 4.6L	24–10
G106	10–4	Heated Oxygen Sensor (HO2S) #22 (9G444), B87 – 5.4L	25–10
G107	10–9	Heated Oxygen Sensor (HO2S) #22 (9G444), B87 – 5.4L Bi-Fuel	22–10
G108	10–11		
G109	10–12		

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Heated Oxygen Sensor (HO2S) #22 (9G444), B87 – 5.4L supercharged 27-11

Heated seat module, driver side front, A224 – Bosch 119-3

Heated seat module, driver side front, A224 – Motorola 119-4

Heated seat module, passenger side front, A223 – Bosch 119-3

Heated seat module, passenger side front, A223 – Motorola 119-5

High flow injector assembly, A237 22-12

High mounted stoplamp (13A613), E174 89-4

High mounted stoplamp (13A613), E174 90-4

High pitch horn, H3 44-1

Horn (13832), H1 44-1

Horn relay, K33 44-1

Horn switch, N54 44-1

Idle air control valve (IAC) (9F715), Y133 – 4.2L 23-5

Idle air control valve (IAC) (9F715), Y133 – 4.6L 24-5

Idle air control valve (IAC) (9F715), Y133 – 5.4L 25-5

Idle air control valve (IAC) (9F715), Y133 – 5.4L Bi-Fuel 22-5

Idle air control valve (IAC) (9F715), Y133 – 5.4L NGV 26-5

Idle air control valve (IAC) (9F715), Y133 – 5.4L supercharged 27-6

Ignition coil (12029), T1 21-4

Ignition switch (11572), N278 13-7

Ignition transformer capacitor 1 (18801), U10 – 4.2L 21-4

Ignition transformer capacitor 1 (18801), U10 – 4.6L, 5.4L 21-5

Ignition transformer capacitor 2 (18801), U11 21-5

In-bed fuel tank valve, front, Y276 26-9

In-bed fuel tank valve, rear, Y272 26-9

In-vehicle temperature sensor (19C734), B206 55-3

Indicator flasher relay (13350), K2 90-2

Indicator flasher relay (13350), K2 95-2

Indicator light switch, N453 22-16

Inertia Fuel Shutoff (IFS) switch (9D362), N316 – 4.2L 23-9

Inertia Fuel Shutoff (IFS) switch (9D362), N316 – 4.6L 24-9

Inertia Fuel Shutoff (IFS) switch (9D362), N316 – 5.4L 25-9

Inertia Fuel Shutoff (IFS) switch (9D362), N316 – 5.4L Bi-Fuel 22-9

Inertia Fuel Shutoff (IFS) switch (9D362), N316 – 5.4L NGV 26-9

Inertia Fuel Shutoff (IFS) switch (9D362), N316 – 5.4L 27-13

Injection Control Pressure (ICP) sensor, B274 26-8

Instrument cluster, A30 60-2

Intake Air Temperature (IAT) sensor (12A697), B213 – 4.2L 23-3

Intake Air Temperature (IAT) sensor (12A697), B213 – 4.6L 24-3

Intake Air Temperature (IAT) sensor (12A697), B213 – 5.4L 25-3

Intake Air Temperature (IAT) sensor (12A697), B213 – 5.4L Bi-Fuel 22-3

Intake Air Temperature (IAT) sensor (12A697), B213 – 5.4L NGV 26-3

Intake Air Temperature (IAT) sensor 1, B290 27-4

Intake Air Temperature (IAT) sensor 2, B291 27-12

Intake Manifold Runner Control (IMRC) module, A166 – 4.2L 23-7

Intake Manifold Runner Control (IMRC) module, A166 – 4.6L 24-7

Intake Manifold Runner Control (IMRC) module, A166 – 5.4L Bi-Fuel 22-7

Interior/map lamps assembly, front, E238 89-3

Interior lamp, E103 – Supercrew, Harley Davidson 89-5

Interior lamp, E103 89-3

Interior lamp relay, K142 59-3

Interior lamp relay, K142 89-2

Key pad switch assembly, A244 117-4

Knock sensor (12A699), B45 – 4.2L 21-4

Knock sensor (12A699), B45 – 4.2L 23-8

Knock sensor (12A699), B45 – 4.6L 24-8

Knock sensor (12A699), B45 – 5.4L 25-8

Knock sensor (12A699), B45 – 5.4L Bi-Fuel 22-8

Knock sensor (12A699), B45 – 5.4L supercharged 27-9

License plate lamp, left, E34 92-2

License plate lamp, right, E35 92-2

Liquid Propane Gas (LPG) sender, B282 22-15

Lock off diode, V64 – 5.4L Bi-Fuel, LPG 22-15

Lock off solenoid, Y277 22-15

Low flow injector assembly, A238 22-12

Low pitch horn, H2 44-1

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Main light switch (11654), N113	13-19	Park/turn lamp, right front (13411), E166	90-4
Mass Air Flow (MAF) sensor (12B579), B22 - 4.2L	23-4	Park/turn lamp, right front (13411), E166	92-1
Mass Air Flow (MAF) sensor (12B579), B22 - 4.6L	24-4	Parking brake switch (15A851), N63	60-2
Mass Air Flow (MAF) sensor (12B579), B22 - 5.4L	25-4	Park lamp relay, K52	87-2
Mass Air Flow (MAF) sensor (12B579), B22 - 5.4L Bi-Fuel	22-4	Park lamp relay, K52	92-1
Mass Air Flow (MAF) sensor (12B579), B22 - 5.4L NGV	26-4	Passenger Air bag Deactivation (PAD) switch, N475	46-2
Mass Air Flow (MAF) sensor (12B579), B22 - 5.4L supercharged	27-5	Passenger air bag module (15044A74), A43	46-2
Master window adjust switch (14529), N447 - Regular cab, Super cab	100-3	Passenger safety belt retractor pretensioner, A226	46-1
Master window adjust switch (14529), N447 - Supercrew, Harley Davidson	100-4	Passive anti-theft transceiver module (15607), A102	112-1
Mechanical Shift On the Fly (MSOF) relay, K377	34-6	PCM power diode, V34 - 4.2L	23-3
Midship fuel tank valve, Y270	26-9	PCM power diode, V34 - 4.6L	24-3
Mirror turn signal relay, left, K363	90-6	PCM power diode, V34 - 5.4L	25-3
Mirror turn signal relay, right, K364	90-6	PCM power diode, V34 - 5.4L Bi-Fuel	22-3
Multifunction switch, N442	81-1	PCM power diode, V34 - 5.4L NGV	26-3
Multifunction switch, N442	85-1	PCM power diode, V34 - 5.4L supercharged	27-4
Multifunction switch, N442	90-2	PCM power relay, K163 - 4.2L	23-3
Natural Gas Vehicle (NGV) fuel tank pressure sensor, B283	26-11	PCM power relay, K163 - 4.6L	24-3
Natural Gas Vehicle (NGV) fuel tank temperature sensor, B284	26-11	PCM power relay, K163 - 5.4L	25-3
Natural Gas Vehicle (NGV) module, A405 - 5.4L NGV	26-4	PCM power relay, K163 - 5.4L Bi-Fuel	22-3
Natural Gas Vehicle (NGV) timer jumper, A425	21-3	PCM power relay, K163 - 5.4L NGV	26-3
Oil pressure switch (9278), N17	60-3	PCM power relay, K163 - 5.4L supercharged	27-4
One-touch window relay, K50	100-2	Power point (19N236), N251	44-2
One-touch window relay, K50	59-3	Power point, console (19N236), O40	44-2
Output Shaft Speed (OSS) sensor (7M101), B110 - 4R100	30-4	Power point, rear (19G247), O21	44-2
Output Shaft Speed (OSS) sensor (7M101), B110 - 4R70W	29-4	Power seat motor assembly, left, M214	120-1
Output Shaft Speed (OSS) sensor (7M101), B110 - 5.4L Bi-Fuel	22-10	Power seat switch, left, N421	120-1
Overhead console, A143	102-1	Powertrain Control Module (PCM) (12A650), A147 - 4.2L	23-3
Park/stop/turn lamp, left rear, E242	90-3	Powertrain Control Module (PCM) (12A650), A147 - 4.6L	23-3
Park/stop/turn lamp, left rear, E242	92-2	Powertrain Control Module (PCM) (12A650), A147 - 5.4L	23-3
Park/stop/turn lamp, right rear, E243	90-3	Powertrain Control Module (PCM) (12A650), A147 - 5.4L Bi-Fuel	22-3
Park/stop/turn lamp, right rear, E243	92-2	Powertrain Control Module (PCM) (12A650), A147 - 5.4L NGV	26-3
Park/stop/turn lamp, right rear, E243	90-4	Powertrain Control Module (PCM) (12A650), A147 - 5.4L supercharged	27-4
Park/stop/turn lamp, right rear, E243	92-1	Power window motor, driver side front (23395), M80	100-2

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Power window motor, left rear (23394), M116	100-5	S108	13-1
Power window motor, passenger side front (23394), M79 -		S109	13-3
Regular cab, Super cab	100-3	S109	86-2
Power window motor, passenger side front (23394), M79 -		S112	13-10
Supercrew, Harley Davidson	100-4	S113	13-11
Power window motor, right rear (23394), M117	100-5	S114	85-2
Radio (18806), A11 - Cassette AM/FM radio	130-2	S115	13-12
Radio (18806), A11 - Harley Davidson	130-6	S116	13-13
Radio (18806), A11 - premium radio	130-3	S117	13-13
Radio (18806), A11 - With Rear Seat Entertainment (RSE)		S117	13-14
system	130-8	S120	13-16
Rail lamp, LH side (13776), E246	89-5	S125	54-2
Rail lamp, RH side (13776), E245	89-5	S127 - 4.2L	23-4
Rear axle speed sensor (4B409), B25	42-2	S127 - 4.6L	24-4
Rear Integrated Control Panel (RICP) (19980), P87	130-6	S127 - 5.4L	25-4
Rear Seat Entertainment (RSE) module, A267	132-2	S127 - 5.4L Bi-Fuel	22-4
Rear window adjust switch, N465	100-6	S127 - 5.4L NGV	26-4
Rear window motor, M247	100-6	S127 - 5.4L supercharged	27-5
Resistor, R57	22-11	S129 - 4.2L	23-5
Resistor A, R70	31-2	S129 - 4.6L	24-5
Restraints control module (14B321), A208	46-1	S129 - 5.4L	25-5
Reversing lamp, left (13411), E105	93-1	S129 - 5.4L Bi-Fuel	22-5
Reversing lamp, right (13411), E109	93-1	S129 - 5.4L NGV	26-5
Reversing lamps switch, N19	93-1	S129 - 5.4L supercharged	27-6
Roof opening panel module (502D70), A214	101-2	S130	93-1
Roof opening panel motor assembly (15790), M201	101-2	S131 - 4.2L	23-5
Running board lamp, left front, E260	89-6	S131 - 4.6L	24-5
Running board lamp, left rear, E261	89-6	S131 - 5.4L	25-5
Running board lamp, right front, E262	89-6	S131 - 5.4L Bi-Fuel	22-5
Running board lamp, right rear, E263	89-6	S131 - 5.4L NGV	26-5
S100	10-2	S131 - 5.4L supercharged	27-6
S101	10-1	S135 - 4.2L	23-8
S102	10-3	S135 - 4.6L	24-8
S103	10-6	S135 - 5.4L	25-8
S104	10-6	S135 - 5.4L Bi-Fuel	22-8
S105	10-7	S135 - 5.4L NGV	26-8



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S135 – 5.4L supercharged	27-9	S142 – 4R70W	29-2
S136 – 4.2L	23-8	S143 – 4.2L	23-10
S136 – 4.6L	24-8	S143 – 4.6L	24-10
S136 – 5.4L	25-8	S143 – 5.4L	25-10
S136 – 5.4L Bi-Fuel	22-8	S143 – 5.4L Bi-Fuel	22-10
S136 – 5.4L NGV	26-8	S143 – 5.4L NGV	26-10
S136 – 5.4L supercharged	27-9	S143 – 5.4L supercharged	27-11
S137 – 4.2L	23-8	S144 – 5.4L supercharged	27-10
S137 – 4.6L	24-8	S146	81-2
S137 – 5.4L	25-8	S147	86-2
S137 – 5.4L Bi-Fuel	22-8	S148	90-3
S137 – 5.4L supercharged	27-9	S149	90-3
S138 – 4.2L	23-8	S151 – 5.4L supercharged	27-10
S138 – 4.6L	24-8	S153	10-3
S138 – 5.4L	25-8	S154 – 4.2L	23-6
S138 – 5.4L Bi-Fuel	22-8	S154 – 4.6L	24-6
S138 – 5.4L NGV	26-8	S154 – 5.4L	25-6
S138 – 5.4L supercharged	27-9	S154 – 5.4L Bi-Fuel	22-6
S139 – 4.2L	23-9	S154 – 5.4L NGV	26-6
S139 – 4.6L	24-9	S154 – 5.4L supercharged	27-7
S139 – 5.4L	25-9	S155 – 4.2L	23-6
S139 – 5.4L Bi-Fuel	22-9	S155 – 4.6L	24-6
S139 – 5.4L NGV	26-9	S155 – 5.4L	25-6
S140 – 4.2L	23-10	S155 – 5.4L Bi-Fuel	22-6
S140 – 4.6L	24-10	S155 – 5.4L NGV	26-6
S140 – 5.4L	25-10	S155 – 5.4L supercharged	27-7
S140 – 5.4L Bi-Fuel	22-10	S156	14-3
S140 – 5.4L NGV	26-10	S157	14-3
S140 – 5.4L supercharged	27-11	S158	13-8
S141 – 4.2L	23-10	S159	26-9
S141 – 4.6L	24-10	S160	90-5
S141 – 5.4L	25-10	S161	13-14
S141 – 5.4L Bi-Fuel	22-10	S162	13-14
S141 – 5.4L NGV	26-10	S170	42-1
S141 – 5.4L supercharged	27-11	S171	13-3
S142 – 4.2L	23-8	S172	10-7

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S197	27-9	S230 – Regular cab, Super cab	100-3
S198	20-2	S230 – Supercrew, Harley Davidson	100-4
S199	10-1	S231	90-4
S199	10-2	S232 – with Electronic Shift On the Fly (ESOF)	34-3
S200	10-4	S232 – with Mechanical Shift On the Fly (MSOF)	34-6
S201	10-4	S233	13-8
S202	10-4	S234	110-1
S203	10-5	S235	110-1
S204	10-5	S236	13-8
S205	10-9	S237	13-13
S207	10-11	S238	34-3
S208	10-11	S239	89-2
S209	10-12	S240	89-2
S210	130-7	S241	13-2
S211	130-7	S242	71-1
S212	13-2	S243	71-3
S213	13-5	S244	13-19
S214	13-4	S245	87-2
S214	13-7	S246	90-2
S215	13-4	S247	90-2
S215	13-7	S248	100-3
S217	132-5	S250	132-4
S218	85-2	S251	14-6
S218	87-5	S252	14-6
S218	97-1	S253	132-5
S219	132-5	S254	132-5
S220	13-9	S260	10-14
S221	13-9	S261	66-1
S222	13-10	S265	13-10
S224	13-12	S268	66-2
S224	92-1	S269	66-1
S225	13-13	S270	13-19
S225	93-1	S271	10-14
S225	13-15	S272	100-5
S225	13-16	S273	110-1
S225	14-2	S274	13-9

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S280	71-3	S330	132-4
S281	132-5	S331	89-6
S282	132-5	S332	132-4
S283	132-5	S339	10-7
S284	130-9	S340	89-6
S285	130-9	S341	89-6
S286	55-3	S342	13-18
S289	13-8	S343	10-16
S290	13-16	S350	13-11
S291	14-4	S351	10-12
S292	14-4	S360	132-4
S296	130-6	S361	132-6
S297	90-5	S362	132-6
S298	13-4	S371	132-4
S300	13-18	S372	132-4
S301	10-14	S373	132-6
S302	26-9	S374	132-6
S303	26-11	S375	132-6
S304	10-13	S376	132-6
S305	89-3	S377	132-6
S306	10-13	S378	10-12
S307	10-4	S379	13-8
S308	130-7	S400	10-7
S309	130-7	S401	10-8
S310	13-18	S403	13-12
S311	13-18	S405	93-1
S313	10-12	S406	95-3
S314	13-8	S407	95-3
S315	130-7	S408	95-4
S316	130-6	S409	95-3
S317	130-6	S500	10-9
S320	13-5	S501	10-10
S321	10-15	S503	124-1
S322	71-4	S600	10-10
S323	71-4	S601	110-1
S324	10-7	S602	110-1

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S900	89-3	S4013	22-15
S901	89-5	S4014	22-15
S902 – Supercrew, with heated seats	10-16	S4015	22-15
S902	10-15	S4016	22-15
S903	89-5	S4017	22-16
S904	89-3	S4018	22-6
S911	10-15	S4019	22-6
S920	132-6	S4020	22-8
S921	132-6	S4021	22-8
S1001 – 5.4L supercharged	12-2	S4032	21-6
S1001	12-1	S4033	21-6
S1002 – 5.4L supercharged	12-2	S4034	10-1
S1002	12-1	S4035	10-1
S1003 – 4.2L	23-3	S4036	10-1
S1003 – 4.6L	24-3	S4040	22-12
S1003 – 5.4L	25-3	Safety belt buckle switch (10B924), N317	66-1
S1003 – 5.4L Bi-Fuel	22-3	Seat back heater, left front, N31 – Bosch	119-3
S1003 – 5.4L NGV	26-3	Seat back heater, left front, N31 – Motorola	119-4
S1003 – 5.4L supercharged	27-4	Seat back heater, right front, N32 – Bosch	119-3
S2002	10-12	Seat back heater, right front, N32 – Motorola	119-5
S2003	13-11	Seat cushion heater, left front, N29 – Bosch	119-3
S2004	13-8	Seat cushion heater, left front, N29 – Motorola	119-4
S4001	22-5	Seat cushion heater, right front, N30 – Bosch	119-3
S4003	14-3	Seat cushion heater, right front, N30 – Motorola	119-5
S4004	14-3	Seat heater switch, driver side, N274 – Bosch	119-2
S4005 – 5.4L Bi-Fuel, CNG	22-14	Seat heater switch, driver side, N274 – Motorola	119-4
S4005 – 5.4L Bi-Fuel, LPG	22-15	Seat heater switch, passenger side, N275 – Bosch	119-2
S4006	22-15	Seat heater switch, passenger side, N275 – Motorola	119-5
S4007	22-15	Speaker, left front (18808), Y28 – Cassette AM/FM radio	130-2
S4008 – 5.4L Bi-Fuel, CNG	22-14	Speaker, left front (18808), Y28 – Harley Davidson	130-7
S4008 – 5.4L Bi-Fuel, LPG	22-15	Speaker, left front (18808), Y28 – premium radio	130-4
S4009 – 5.4L Bi-Fuel, CNG	22-14	Speaker, left front (18808), Y28 – With Rear Seat Entertainment (RSE) system	130-9
S4009 – 5.4L Bi-Fuel, LPG	22-15	Speaker, left rear (18808), Y17 – Cassette AM/FM radio	130-2
	22-15	Speaker, left rear (18808), Y17 – Harley Davidson	130-7
	22-14	Speaker, left rear (18808), Y17 – premium radio	130-4
	22-14		

Speaker, left rear (18808), Y17 – With Rear Seat Entertainment (RSE) system	130-9	Transfer case assembly, A257 – with Mechanical Shift On the Fly (MSOF)	34-6
Speaker, right front (18808), Y18 – Cassette AM/FM radio	130-2	Transfer case electric clutch relay, K386	34-4
Speaker, right front (18808), Y18 – Harley Davidson	130-7	Transfer case relay module, K136 – with Electronic Shift On the Fly (ESOF)	34-4
Speaker, right front (18808), Y18 – premium radio	130-4	Transfer case speed sensor, B281 – 4.2L	23-8
Speaker, right front (18808), Y18 – With Rear Seat Entertainment (RSE) system	130-9	Transfer case speed sensor, B281 – 4.6L	24-8
Speaker, right rear (18808), Y19 – Cassette AM/FM radio	130-2	Transfer case speed sensor, B281 – 5.4L	25-8
Speaker, right rear (18808), Y19 – Harley Davidson	130-7	Transfer case speed sensor, B281 – 5.4L Bi-Fuel	22-8
Speaker, right rear (18808), Y19 – premium radio	130-4	Transmission control switch, N405 – 4R100	30-3
Speaker, right rear (18808), Y19 – With Rear Seat Entertainment (RSE) system	130-9	Transmission control switch, N405 – 4R70W	29-3
Speed control servo (9C735), M87	31-3	Turbine shaft speed sensor (7M101), B44 – 4R100	30-4
Starter motor (11002), M8 – Automatic	20-2	Turbine shaft speed sensor (7M101), B44 – 5.4L	25-4
Starter motor (11002), M8 – Manual	20-1	Turbine shaft speed sensor (7M101), B44 – 5.4L Bi-Fuel	22-4
Starter relay (11450), K22 – Automatic	20-2	Turbine shaft speed sensor (7M101), B44 – 5.4L NGV	26-8
Starter relay (11450), K22 – Manual	20-1	Turbine shaft speed sensor (7M101), B44 – 5.4L supercharged	27-5
Steering wheel/speed control switch (9F924), N78	31-2	Vanity mirror lamp, left (04100), E30	89-3
Sunload sensor (19E663), B72	55-3	Vanity mirror lamp, right (04100), E31	89-3
Supercharger bypass solenoid, Y273	27-12	Video cassette player, A270	132-2
Tank valve 1, Y53	22-14	Video display, A269	132-2
Tank valve diode, V62 – 5.4L Bi-Fuel, CNG	22-14	Wheel speed sensor, left front (2C205), B15	42-2
Temperature blend door actuator (19E616), M256	54-3	Wheel speed sensor, right front (2C204), B14	42-2
Temperature blend door actuator (19E616), M256	55-4	Window adjust switch, left rear (14A412), N111	100-5
Throttle Position Sensor (TPS) (9B989), B8 – 4.2L	23-8	Window adjust switch, passenger side, N105 – Regular cab, Super cab	100-3
Throttle Position Sensor (TPS) (9B989), B8 – 4.6L	24-8	Window adjust switch, passenger side, N105 – Supercrew, Harley Davidson	100-4
Throttle Position Sensor (TPS) (9B989), B8 – 5.4L	25-8	Window adjust switch, right rear (14A412), N110	100-5
Throttle Position Sensor (TPS) (9B989), B8 – 5.4L Bi-Fuel	22-8	Windshield washer pump motor (17618), M112	81-2
Throttle Position Sensor (TPS) (9B989), B8 – 5.4L NGV	26-8	Windshield washer relay, K317	81-2
Throttle Position Sensor (TPS) (9B989), B8 – 5.4L supercharged	27-9	Windshield wiper motor (17508), M111	81-2
Trailer tow connector (15A416), E201	95-3	Wiper high/low relay, K316	81-2
Trailer tow relay, battery charge, K355	95-3	Wiper run/park relay, K140	81-2
Trailer tow relay, parking lamp, K356	95-4		
Transfer case assembly, A257 – with Mechanical Shift On the Fly (MSOF)	34-6		
Transfer case electric clutch relay, K386	34-4		
Transfer case relay module, K136 – with Electronic Shift On the Fly (ESOF)	34-4		
Transfer case speed sensor, B281 – 4.2L	23-8		
Transfer case speed sensor, B281 – 4.6L	24-8		
Transfer case speed sensor, B281 – 5.4L	25-8		
Transfer case speed sensor, B281 – 5.4L Bi-Fuel	22-8		
Transmission control switch, N405 – 4R100	30-3		
Transmission control switch, N405 – 4R70W	29-3		
Turbine shaft speed sensor (7M101), B44 – 4R100	30-4		
Turbine shaft speed sensor (7M101), B44 – 5.4L	25-4		
Turbine shaft speed sensor (7M101), B44 – 5.4L Bi-Fuel	22-4		
Turbine shaft speed sensor (7M101), B44 – 5.4L NGV	26-8		
Turbine shaft speed sensor (7M101), B44 – 5.4L supercharged	27-5		
Vanity mirror lamp, left (04100), E30	89-3		
Vanity mirror lamp, right (04100), E31	89-3		
Video cassette player, A270	132-2		
Video display, A269	132-2		
Wheel speed sensor, left front (2C205), B15	42-2		
Wheel speed sensor, right front (2C204), B14	42-2		
Window adjust switch, left rear (14A412), N111	100-5		
Window adjust switch, passenger side, N105 – Regular cab, Super cab	100-3		
Window adjust switch, passenger side, N105 – Supercrew, Harley Davidson	100-4		
Window adjust switch, right rear (14A412), N110	100-5		
Windshield washer pump motor (17618), M112	81-2		
Windshield washer relay, K317	81-2		
Windshield wiper motor (17508), M111	81-2		
Wiper high/low relay, K316	81-2		
Wiper run/park relay, K140	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.

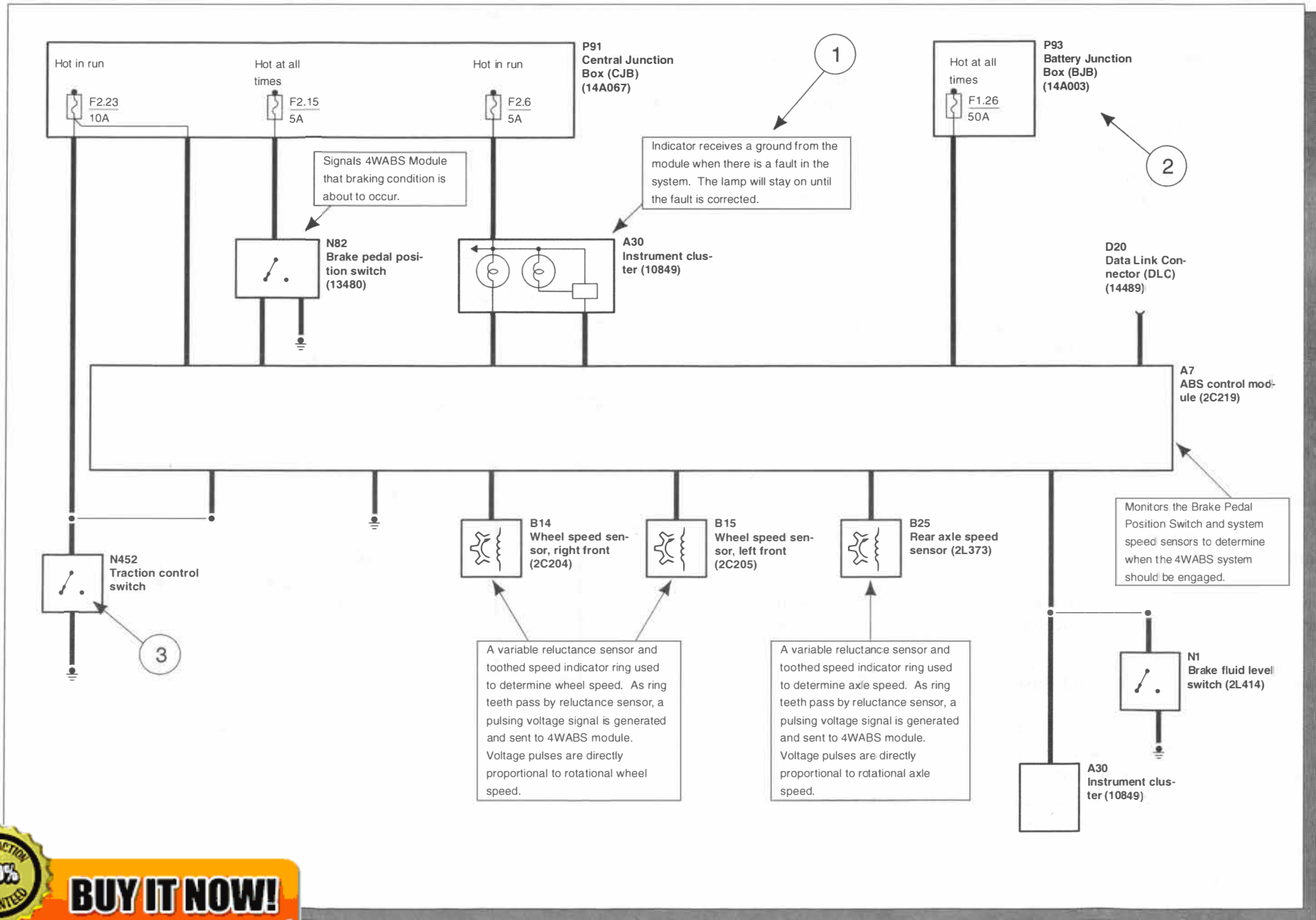
Complete Circuit Operation

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)

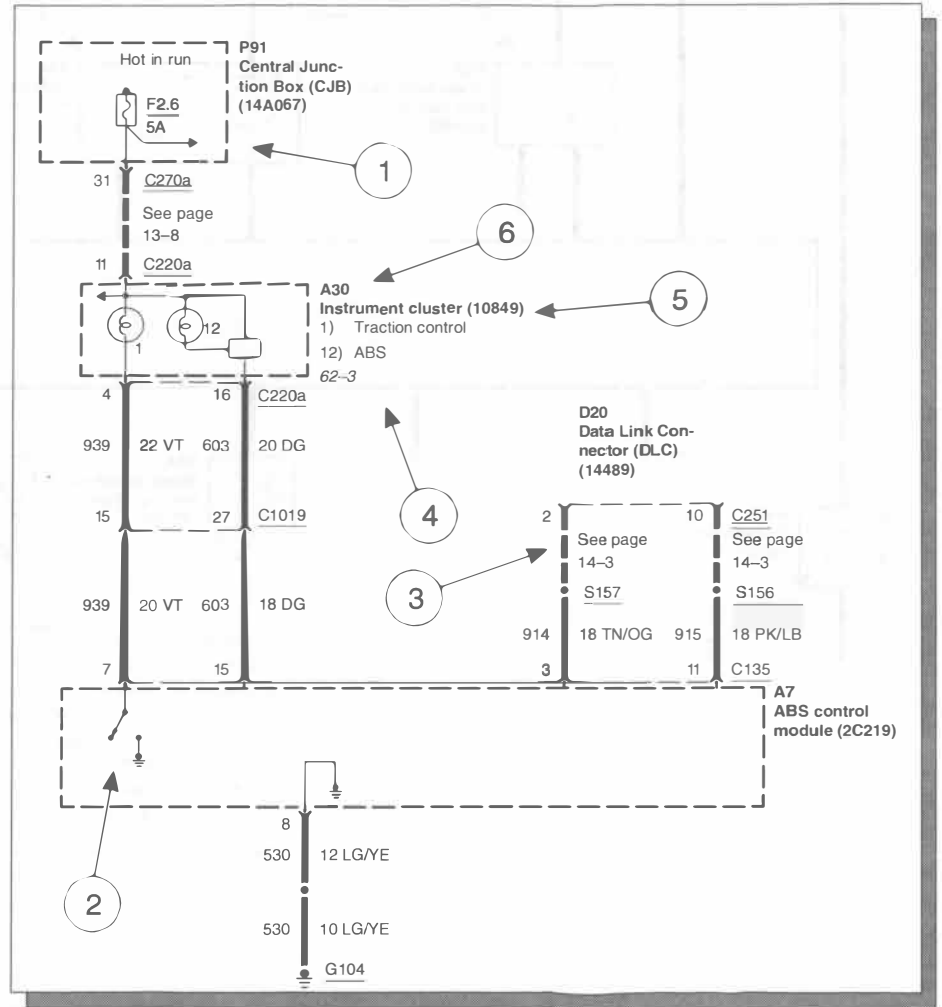
Each component on a schematic has a reference to the component location view for that component. It is located to the right of each component.

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. The page where the component appears in full is listed in the Index. The base part number for a component is listed in parentheses next to or under a component name. These part numbers will appear any place the component name

Component Identification Numbers (6)

Each component on each schematic has a component identification number located to the upper right hand side of the component. By finding this number in the Component Location Chart, the Component Location View for that component can easily be found.



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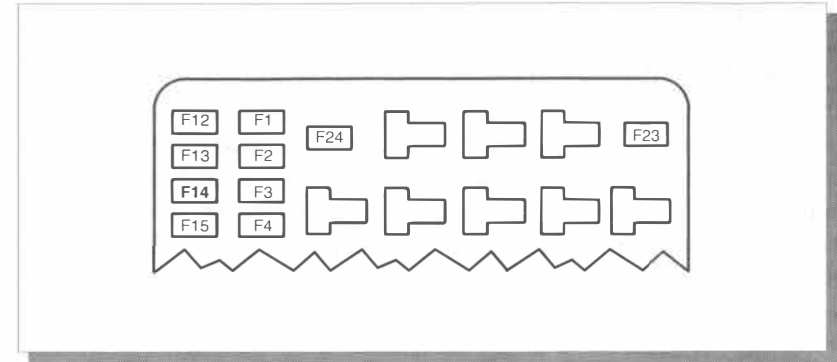
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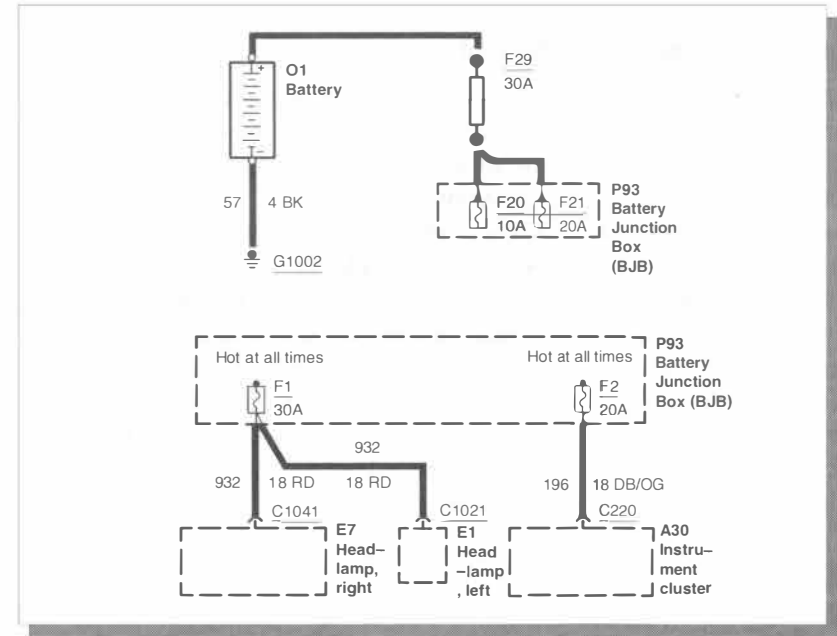
Fuse and Relay Information

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



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.



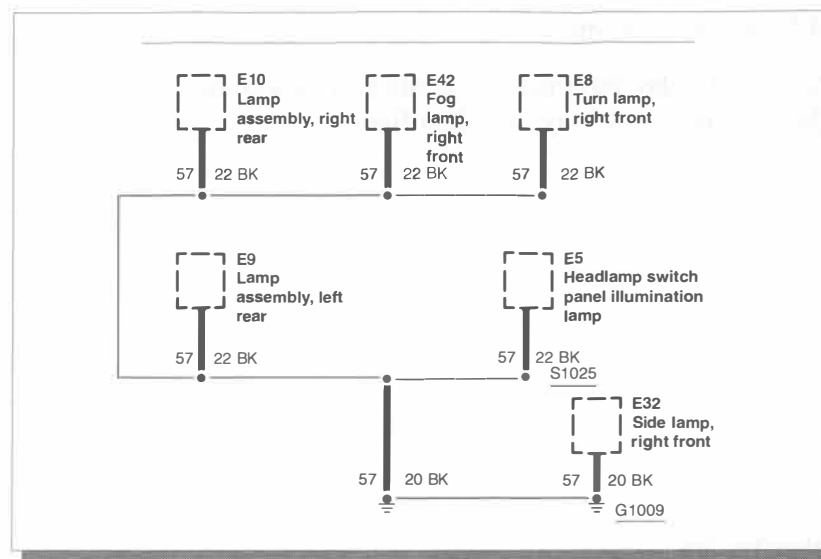
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Ground Distribution

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

B15
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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WARNINGS

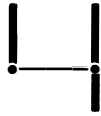
- *Always wear safety glasses for eye protection.*
- *Use safety stands whenever a procedure requires being under a vehicle.*
- *Be sure that the **Ignition Switch** is always in the OFF position, unless otherwise required by the procedure.*
- *Set the parking brake when working on any vehicle. An automatic 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.*



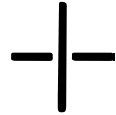
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4-1 Symbols



Distributed splice



Crossed wiring without connection



Splice



Removable connection



Ground



Connector



Female connector



Male connector



Entire component



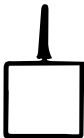
Part of a component



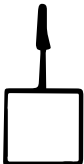
Component case directly attached to metal part of vehicle (ground)



Component with screw terminals



Connector attached to component



Connector attached to component lead (pigtail)



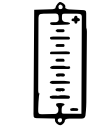
Resistor or heating element



Potentiometer (pressure or temperature)



Potentiometer (outside influence)



Battery



Fuse



Circuit breaker



Heating element, Conductor loop

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Ignition coil assembly



Buzzer



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



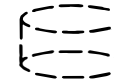
Rotational sensor



Variable capacitor



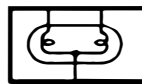
Lamp



Shield



Piezoelectric sensor



Bifilament lamp



Horn or speaker



Coil



Gauges



Fusible link


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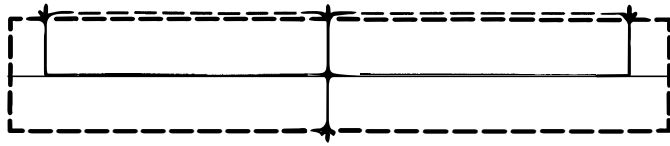






4-3 Symbols

Joint connector



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



Power ground



signal



Signal return



Switched ground



Reference voltage



Left-hand-drive vehicles

VBATT

Battery voltage

VPWR

Switched or module voltage

SCP +

Standard Corporate Protocol (SCP) data +

SCP -

Standard Corporate Protocol (SCP) data -

ISO

Data bus ISO 9141 (K-line)

PWR

Switched power

Country code



Canada

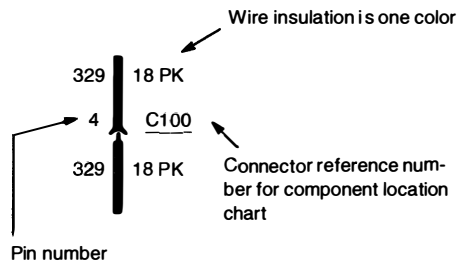
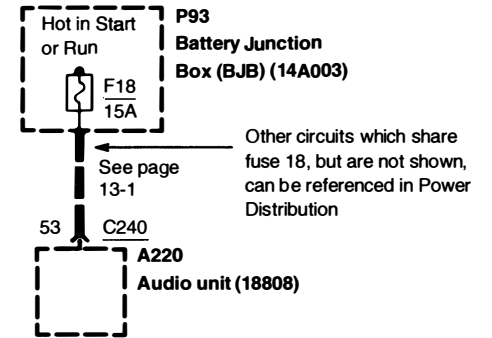
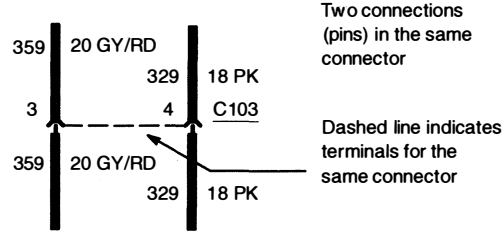
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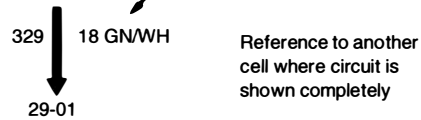
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A thick dashed line represents incomplete circuitry

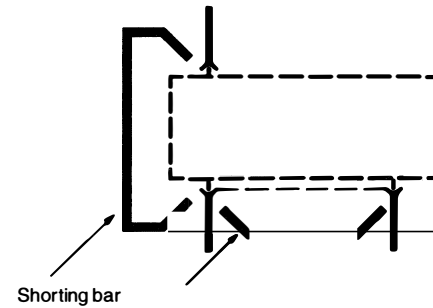
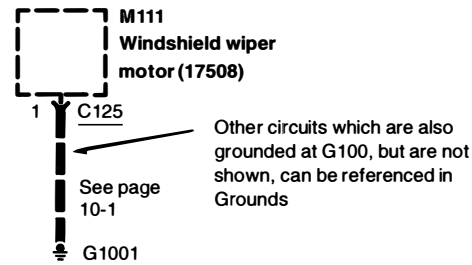
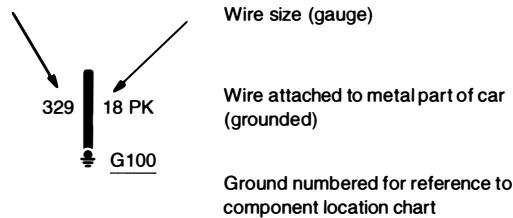
A thin dashed line represents a continuation



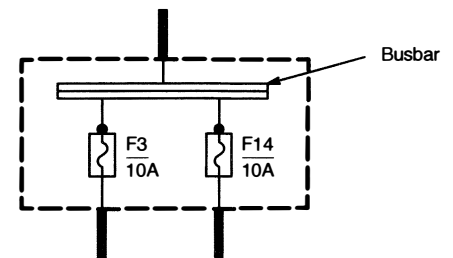
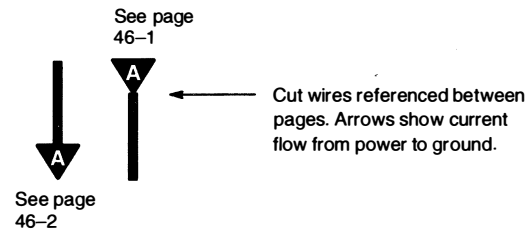
Wire insulation is one color with another color stripe (green with white)



Circuit number



A choice bracket shows wiring differences between models, countries or options

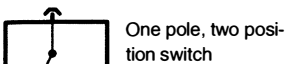
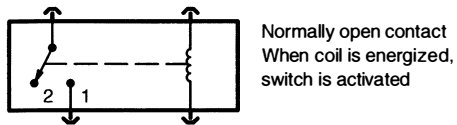
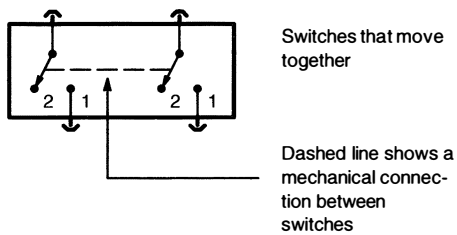
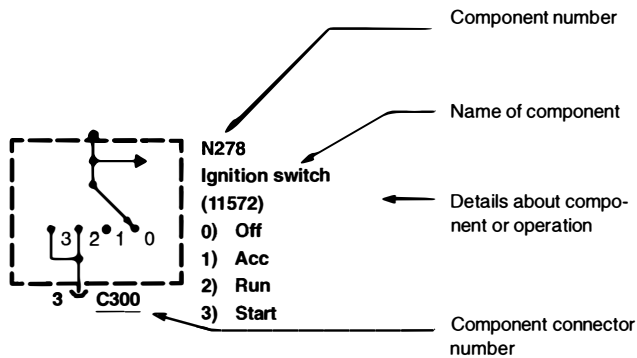


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4-5 Symbols

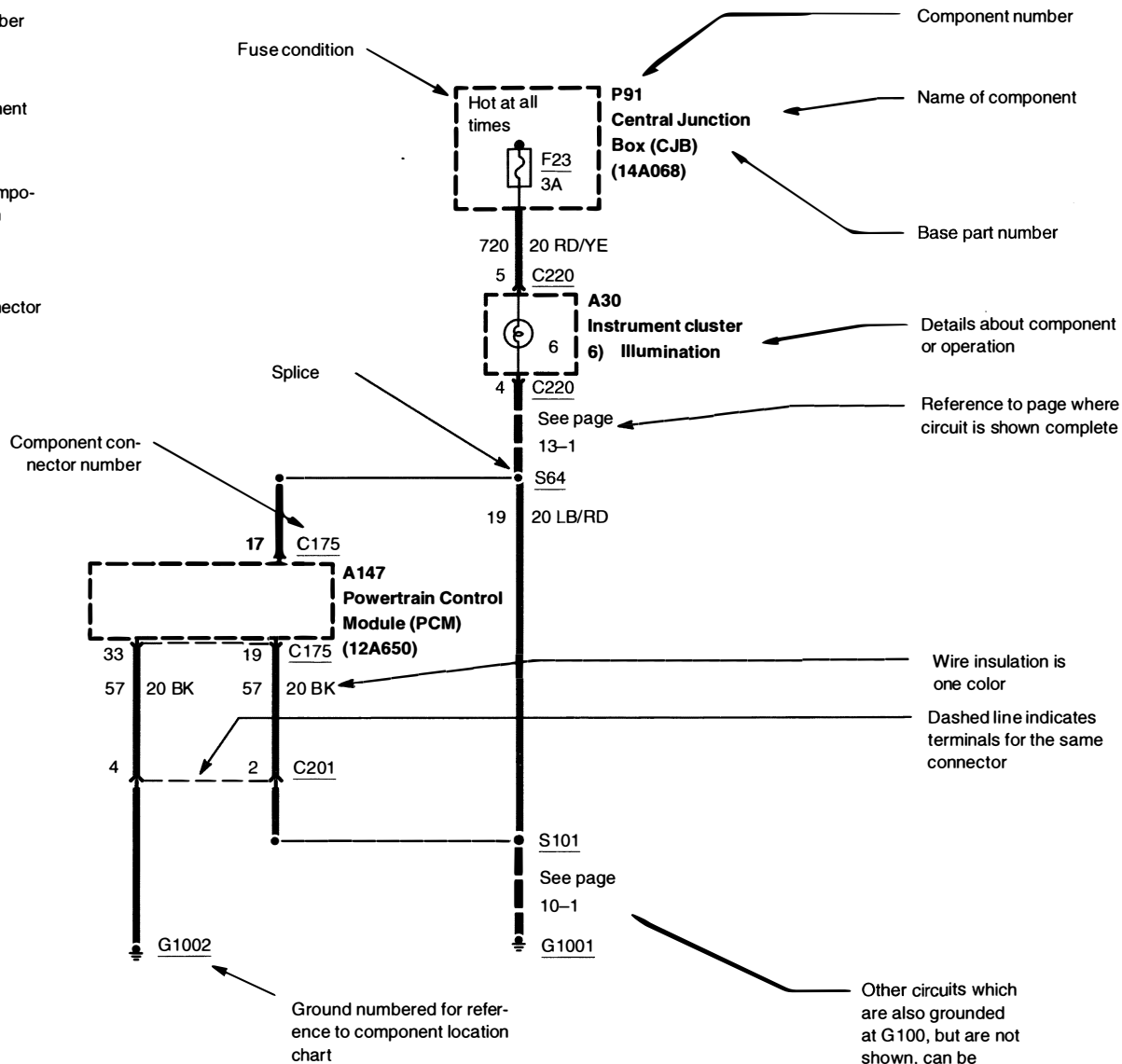


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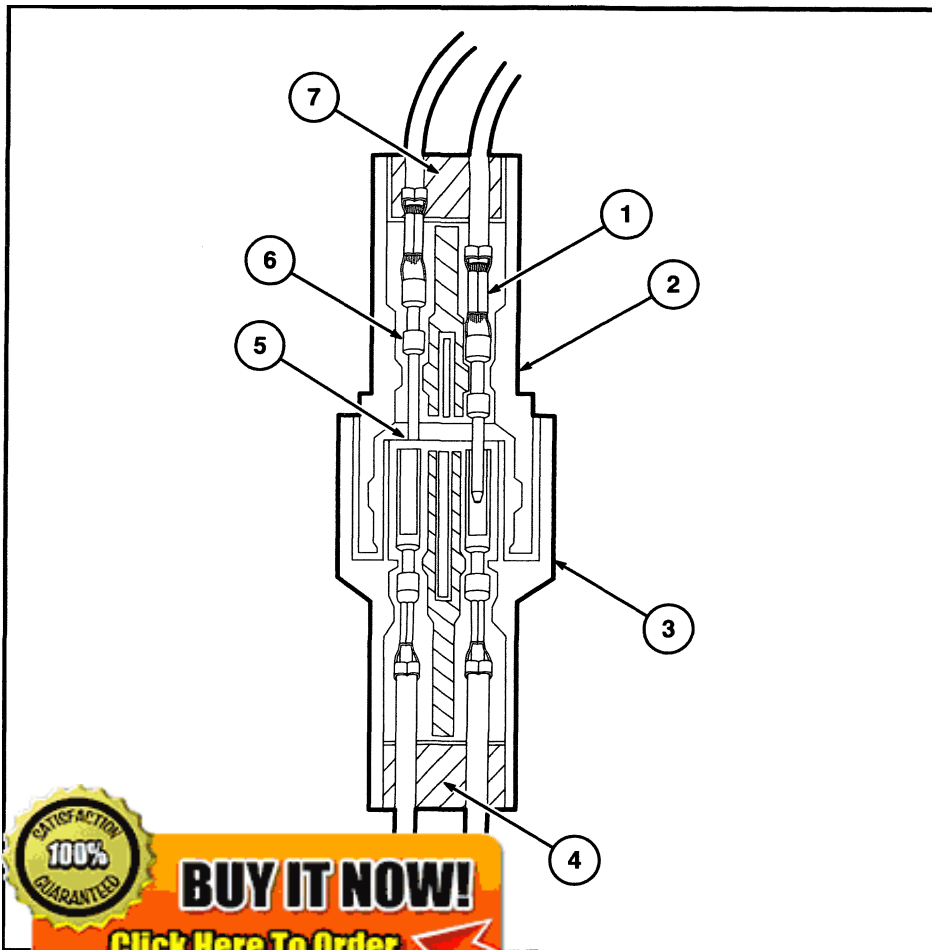


Other circuits which are also grounded at G100, but are not shown, can be found using the reference

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

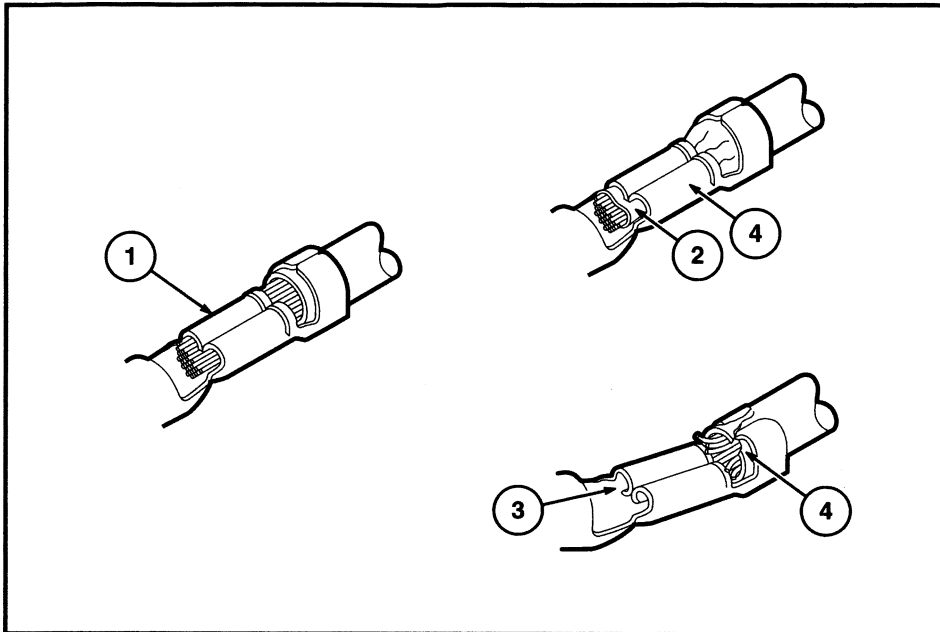
Check for unlocked terminals by pulling each wire at the end of the connector.

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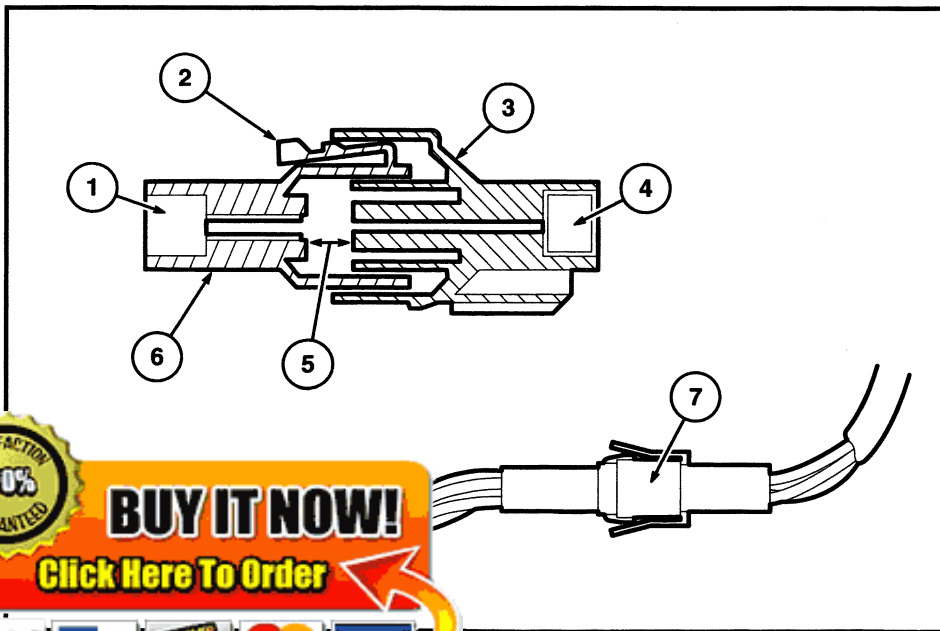
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Defective insulation stripping

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



Partially mated connectors

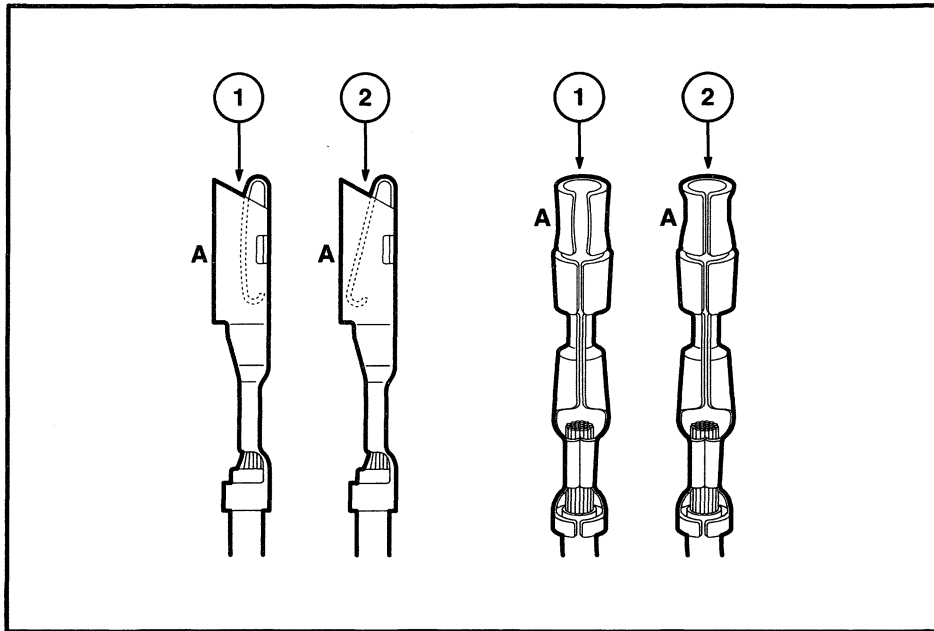
- 1 = Seal
- 2 = Displaced tab
- 3 = Female half
- 4 = Seal
- 5 = Intermittent contact
- 6 = Male half
- 7 = Intermittent contact

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

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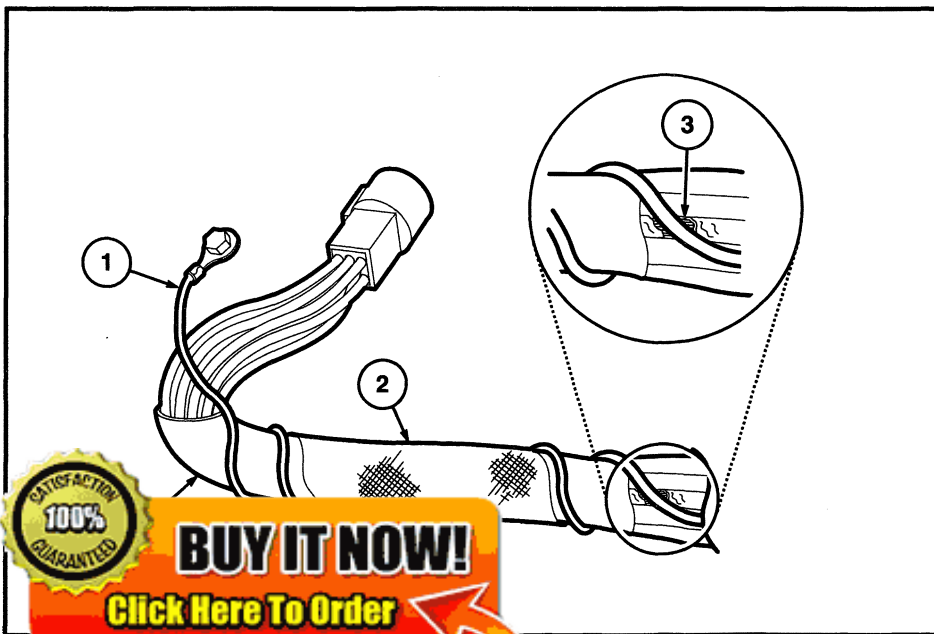


Deformed (enlarged) female terminals

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

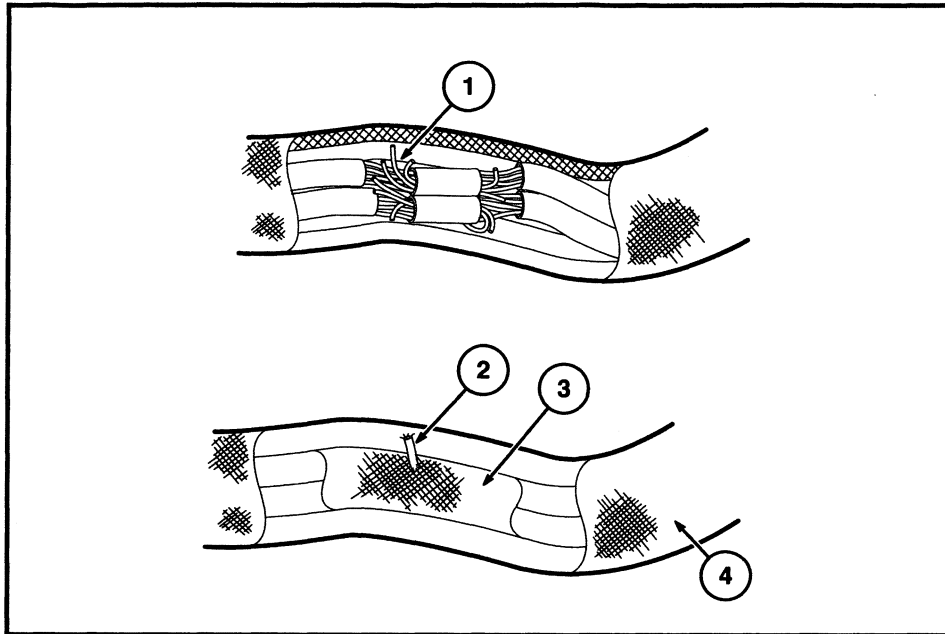
Solder coated wire pierced through the insulation of another circuit

4 = Grounding foil

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Electrical short within the harness

Splice tape removed

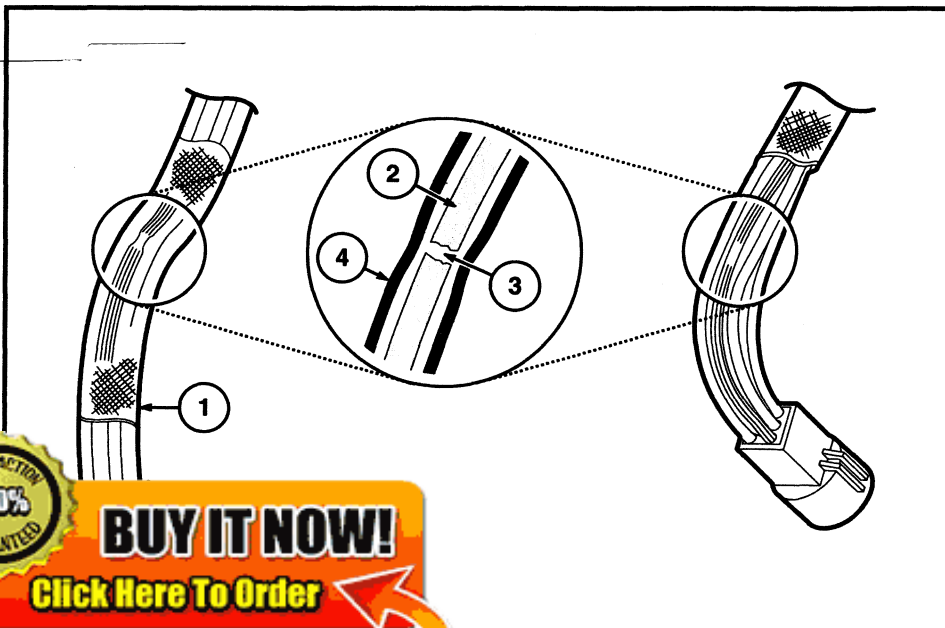
1 = Intermittent short

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

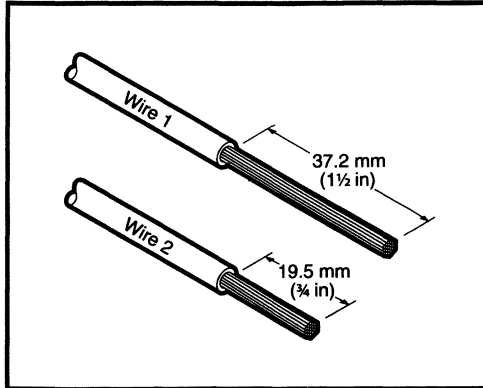
Remove the tape and flex/feel each circuit for a reduction in diameter at break.

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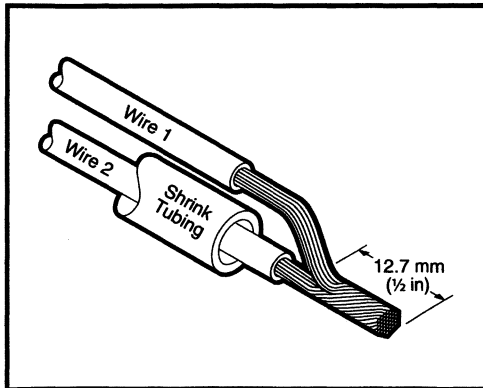
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Recommended splicing method

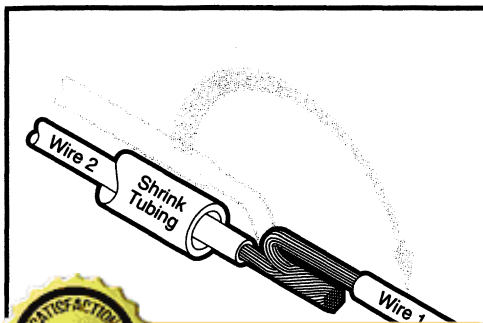


1. Disconnect battery ground cable.
2. Strip wires to appropriate length.



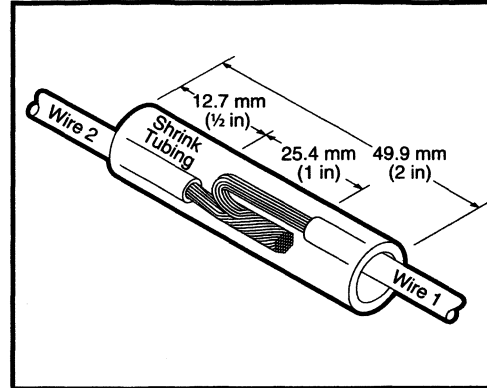
3. Install heat shrink tubing.
4. Twist wires together.
5. Solder wires together.

NOTE: Use rosin core mildly-activated (RMA) solder. Do not use acid core solder.



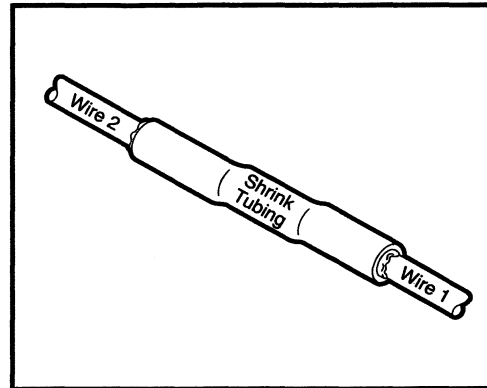
6. Bend Wire 1 back in a straight line.

NOTE: Wait for solder to cool before moving wires.



7. Evenly position heat shrink tubing over wire repair.

NOTE: Overlap tubing on both wires.



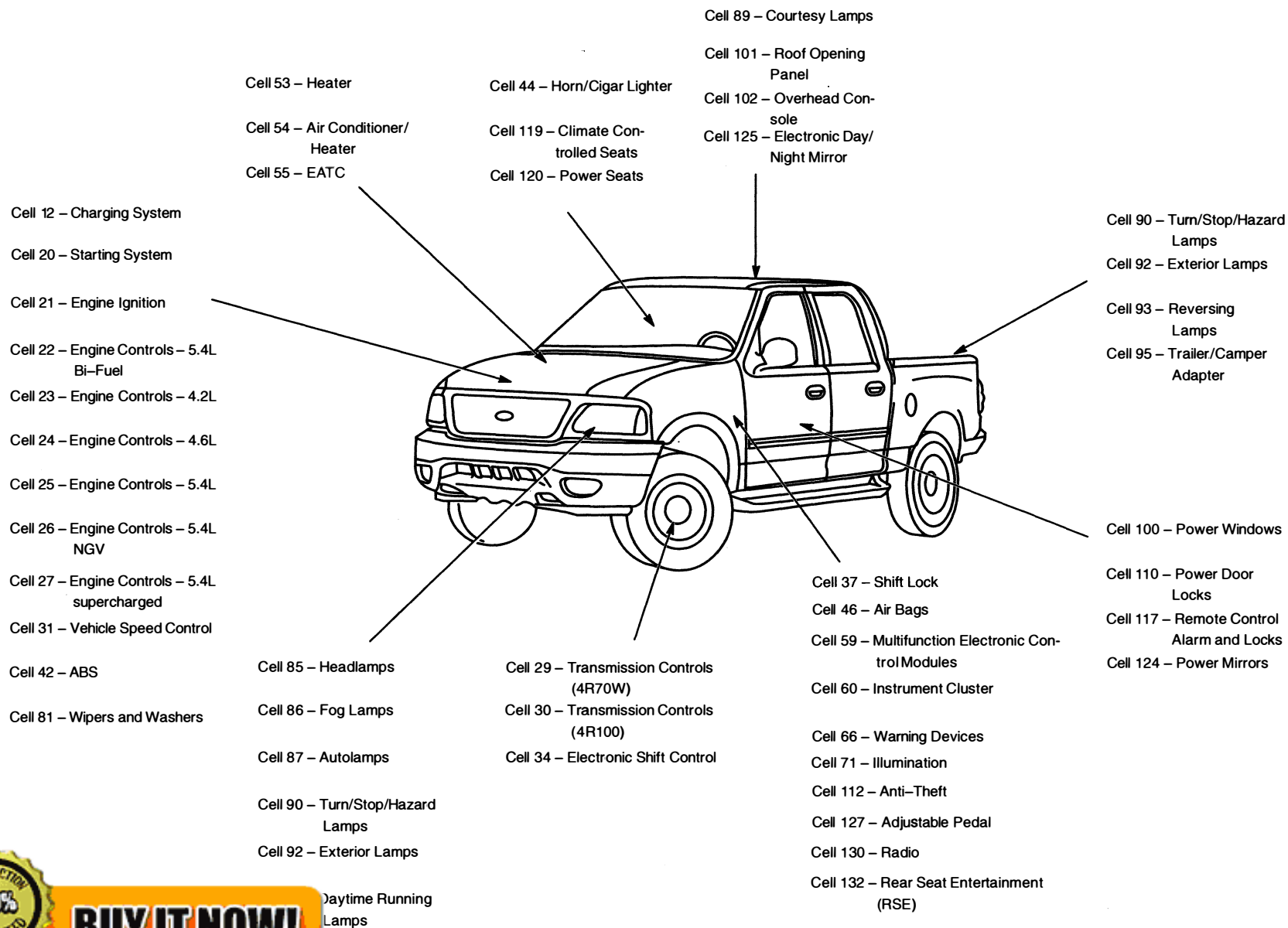
8. Use heat gun to heat the repaired area until adhesive flows out of both ends of heat shrink tubing.
9. Reconnect battery ground cable.

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8-1 Systems Overview

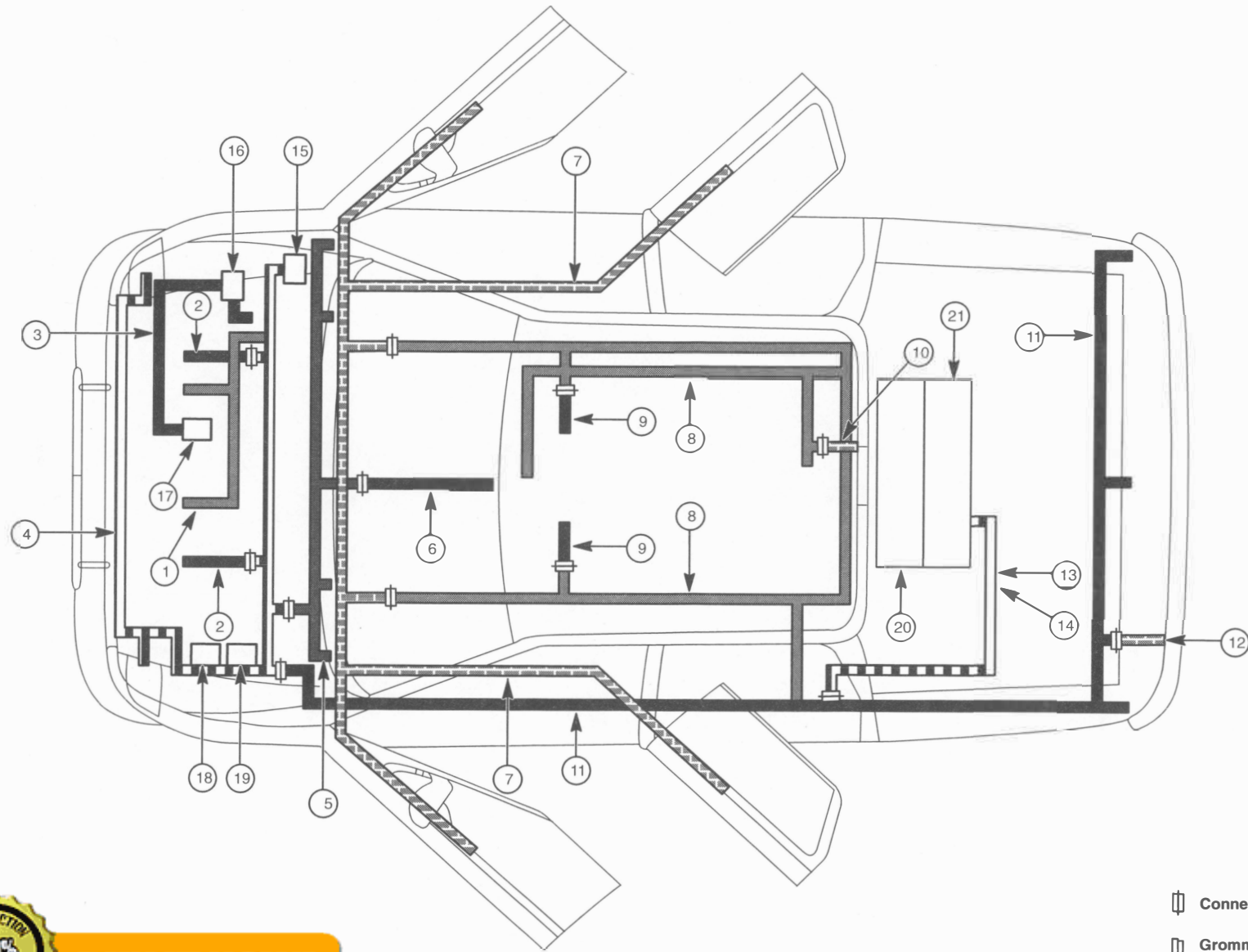


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9-1 Wiring Harness Overview



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Item	Part Number	Description
1	12B637	Wiring harness – Engine control sensor and fuel charge
2	12A581	Wiring harness – Engine control sensor
3	14B060	Wiring harness – Starter motor relay and battery ground
4	14A320	Wiring harness – Multifunction switch
5	14401	Wiring harness – Main
6	19B113	Wiring harness – CD changer (18D806)
7	14A005	Wiring harness – Body main
8	14A504	Wiring harness – Body main
9	14B084	Wiring harness – Passenger, driver seat jumper
10	13A625	Wiring harness – High mounted stoplamp
11	14405	Wiring harness – Tail lamps
12	13A576	Wiring harness – Trailer lamp feed
13	A2-765	Wiring harness – Bi-fuel tank 1
14	A2-766	Wiring harness – Bi-fuel tank 2
15	A147	Powertrain Control Module (PCM) (12A650)
16	O1	Battery (10655)
17	O5	Generator
18	A7	ABS control module (2C219)
19	P93	Battery Junction Box (BJB) (14A003)
20	–	Natural Gas Vehicle (NGV) tank
21	–	Natural Gas Vehicle (NGV) tank



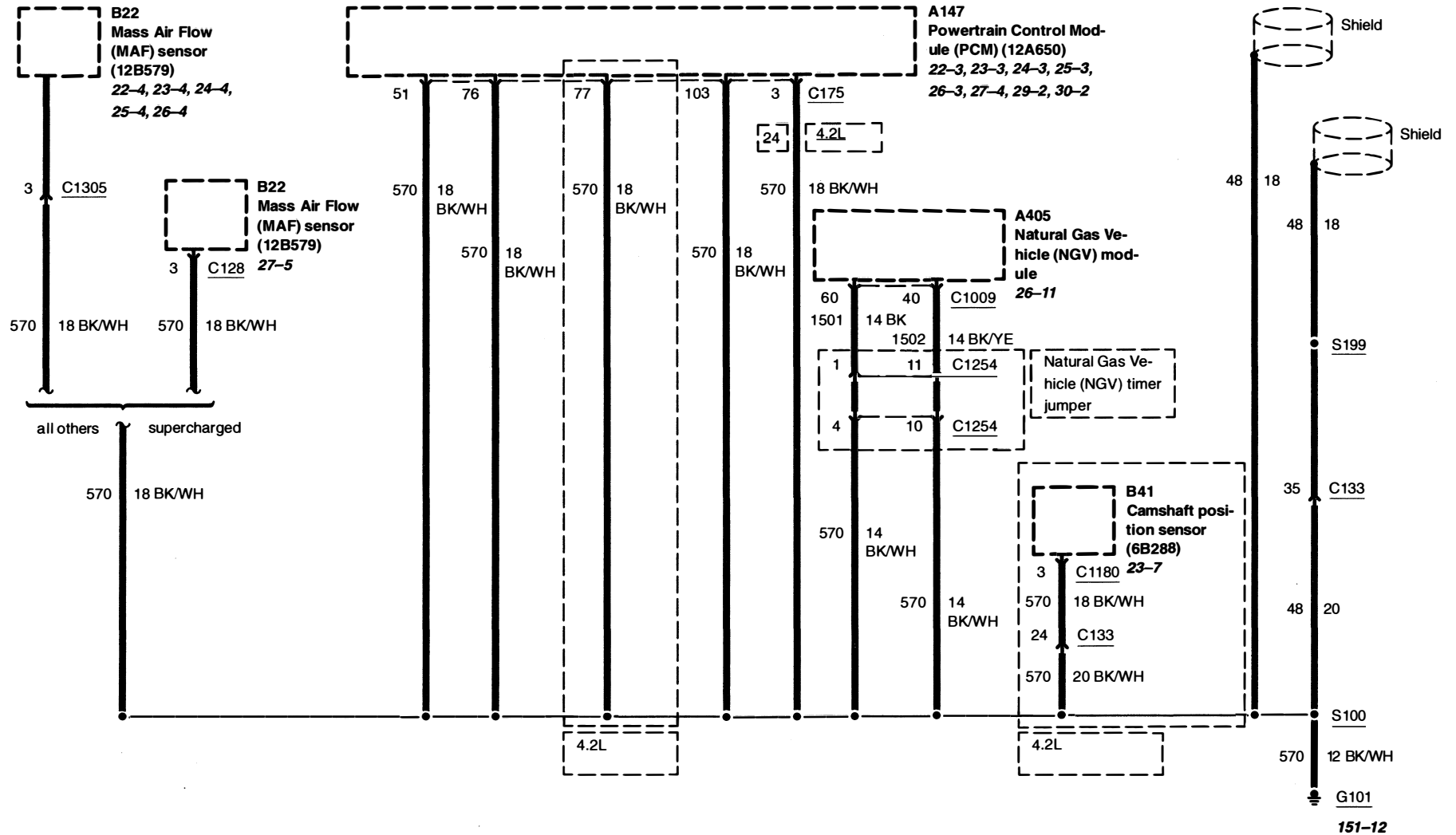
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G101



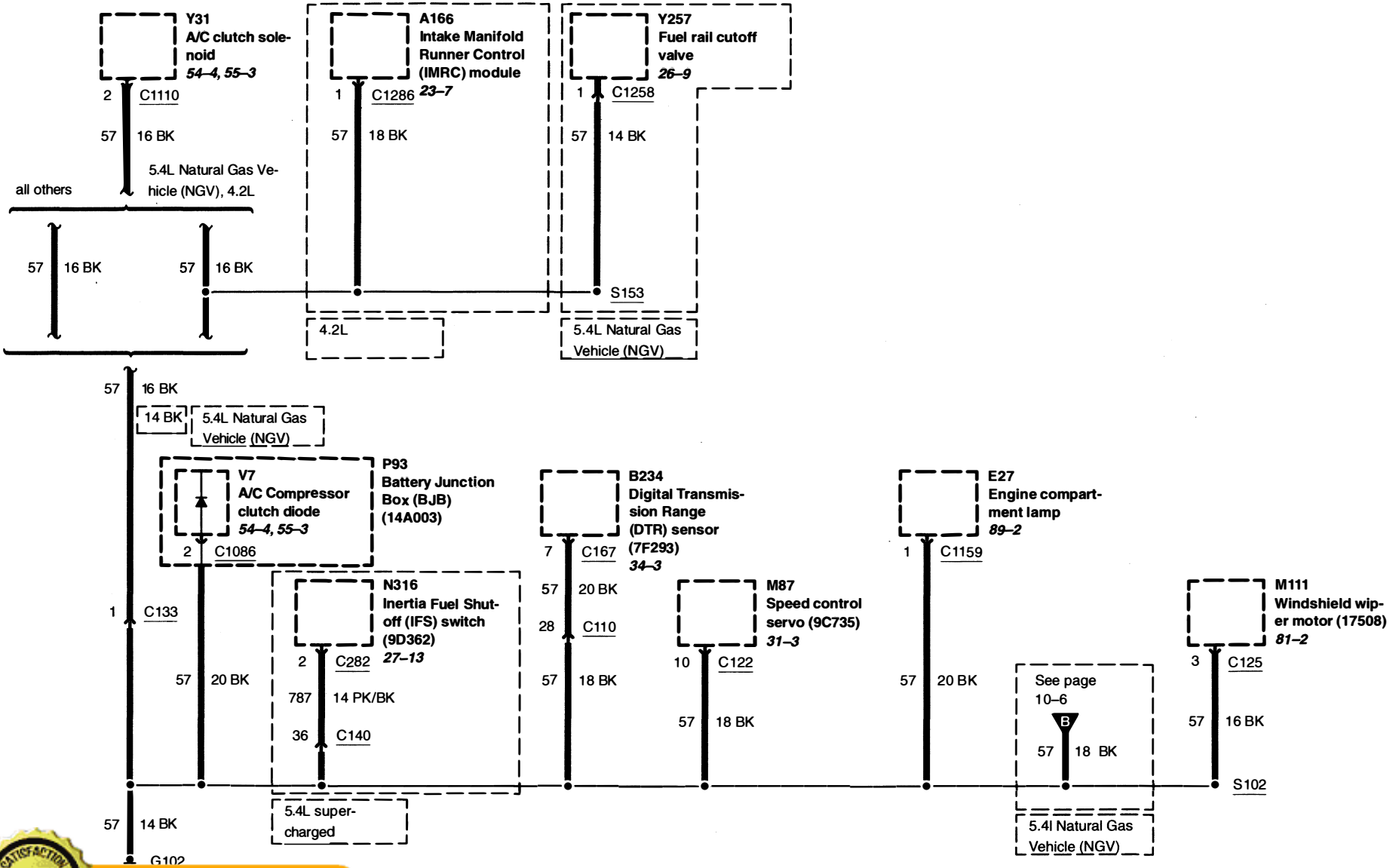
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G102



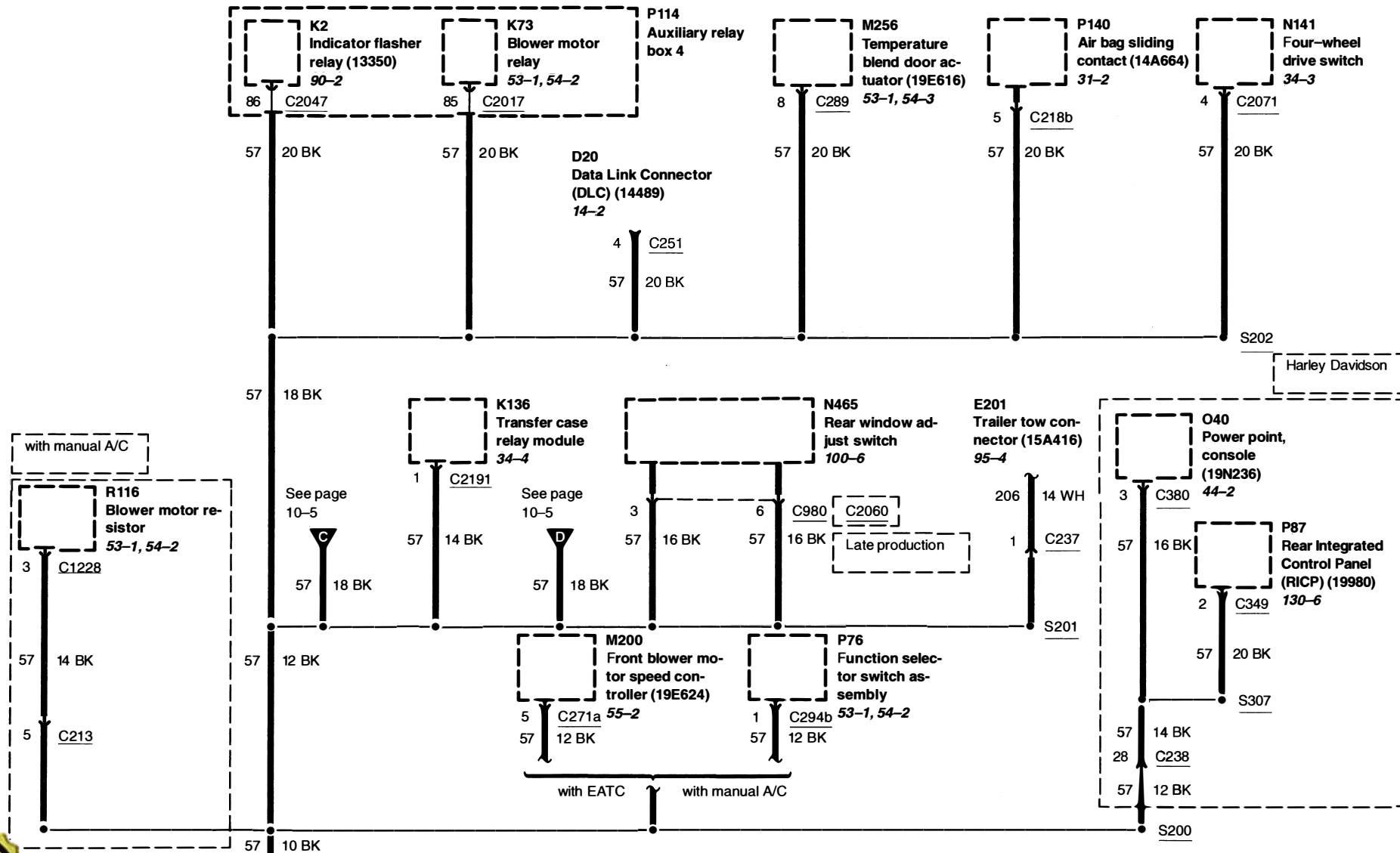
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G200

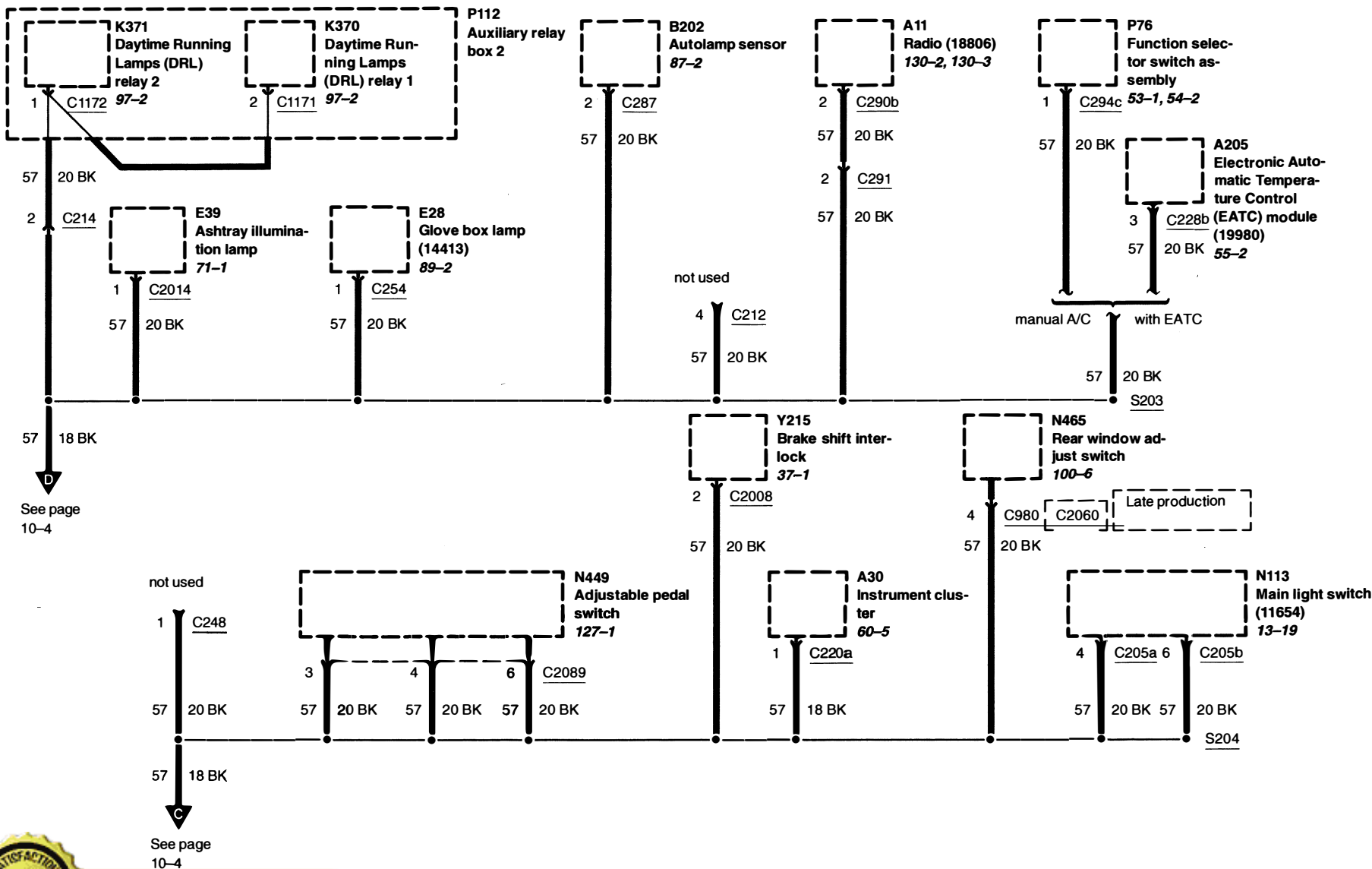


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See page 10-4

See page 10-4

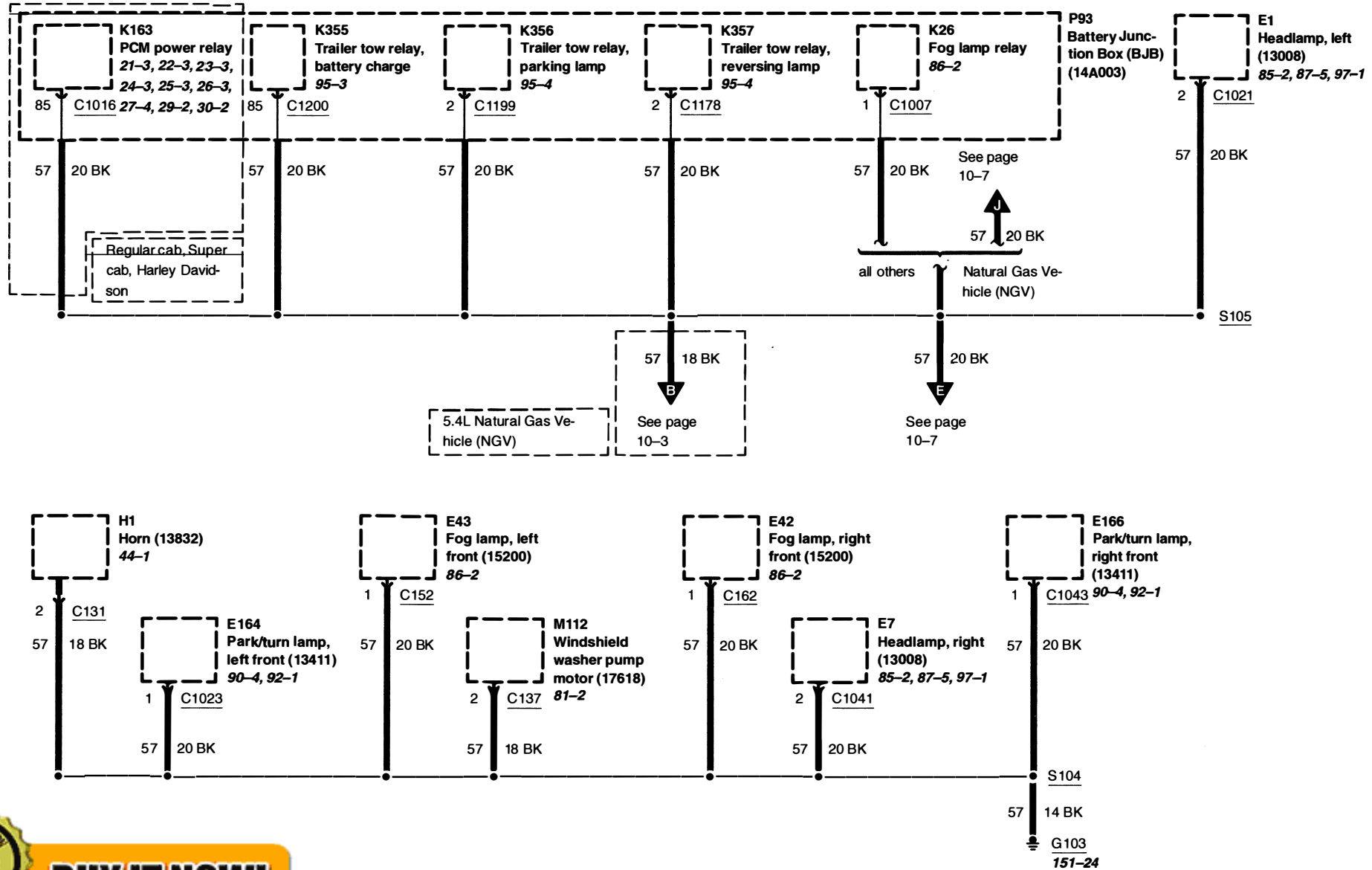
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G103



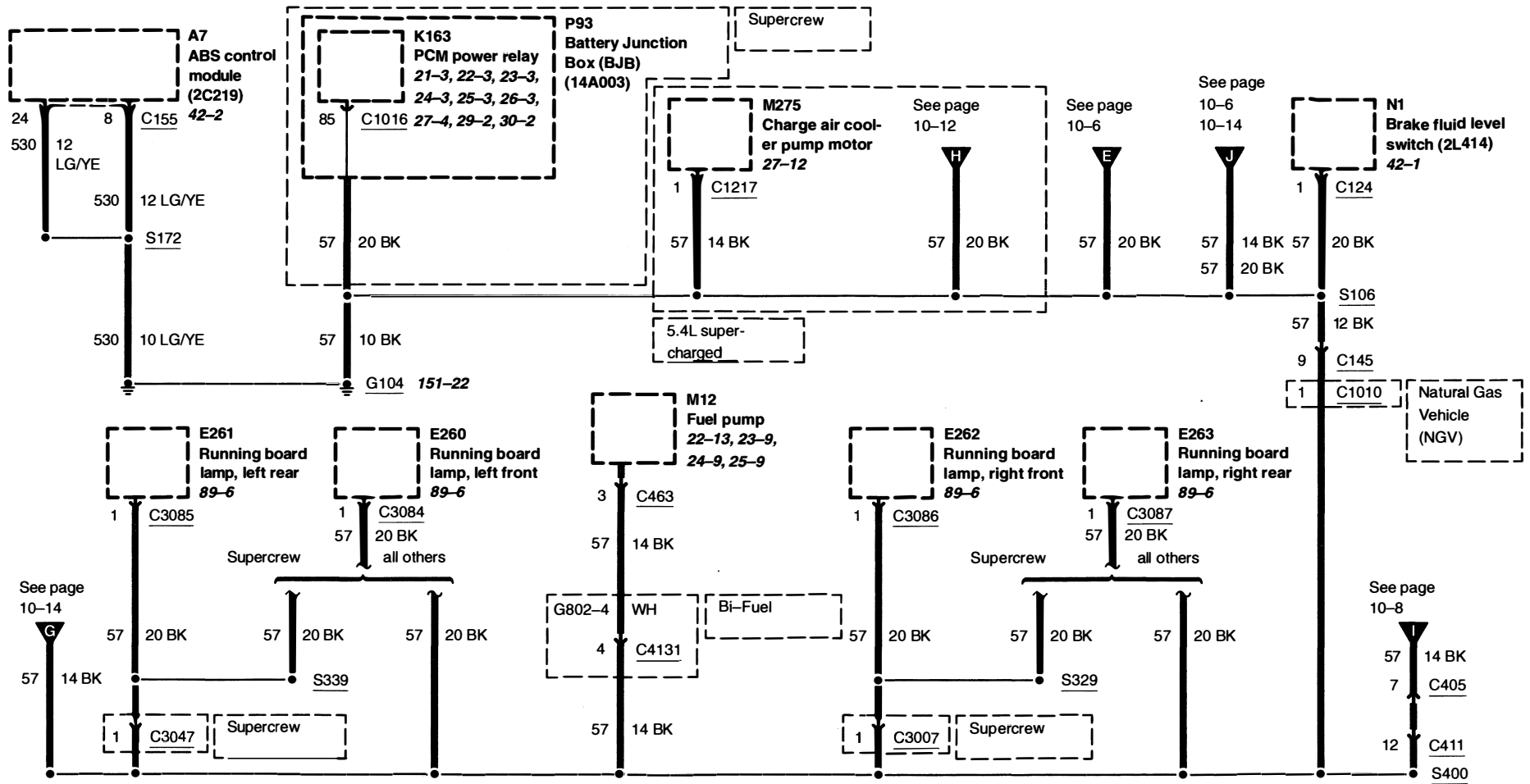
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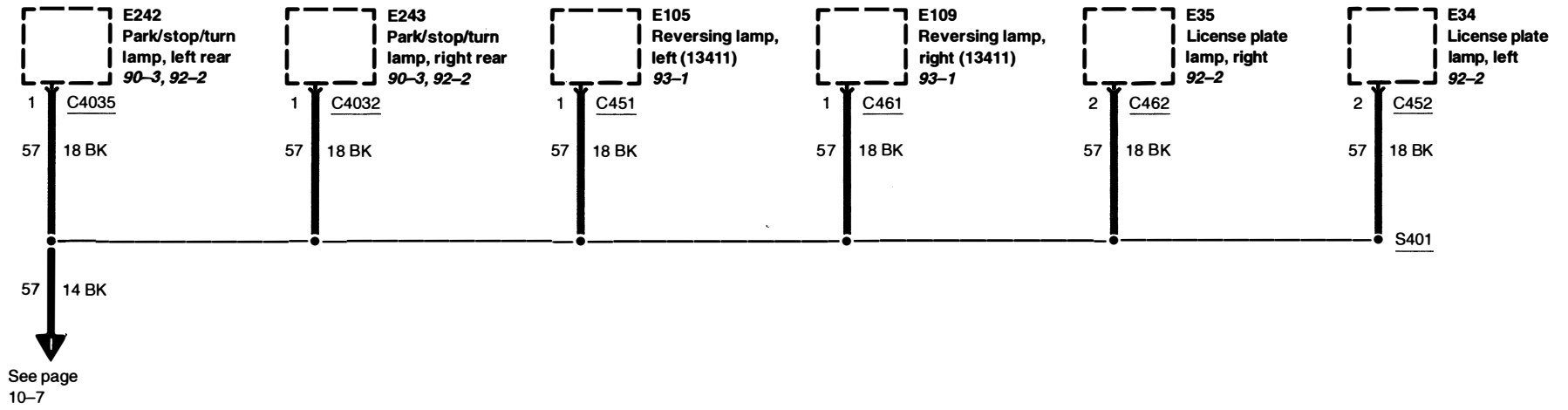


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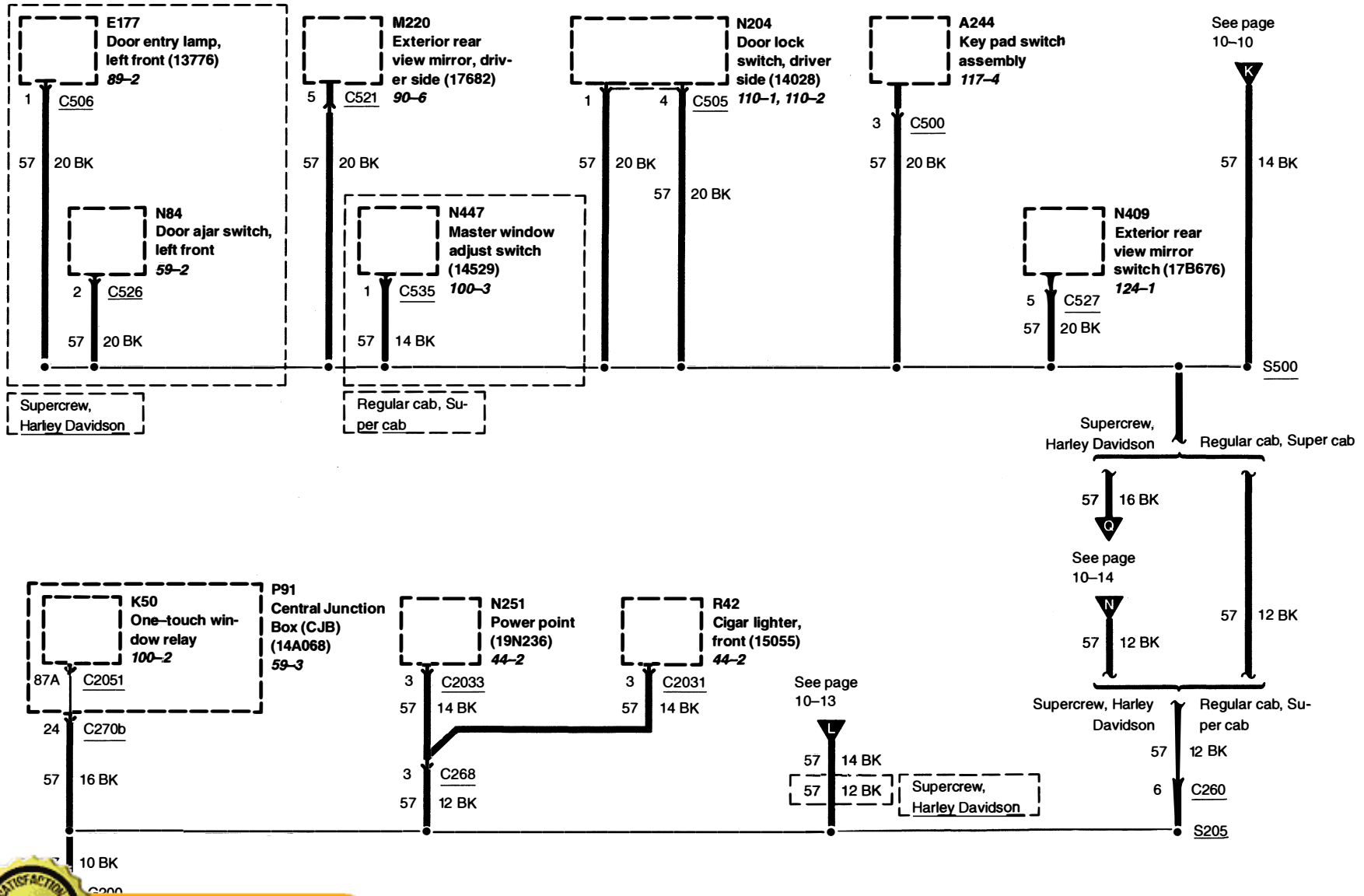


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G200

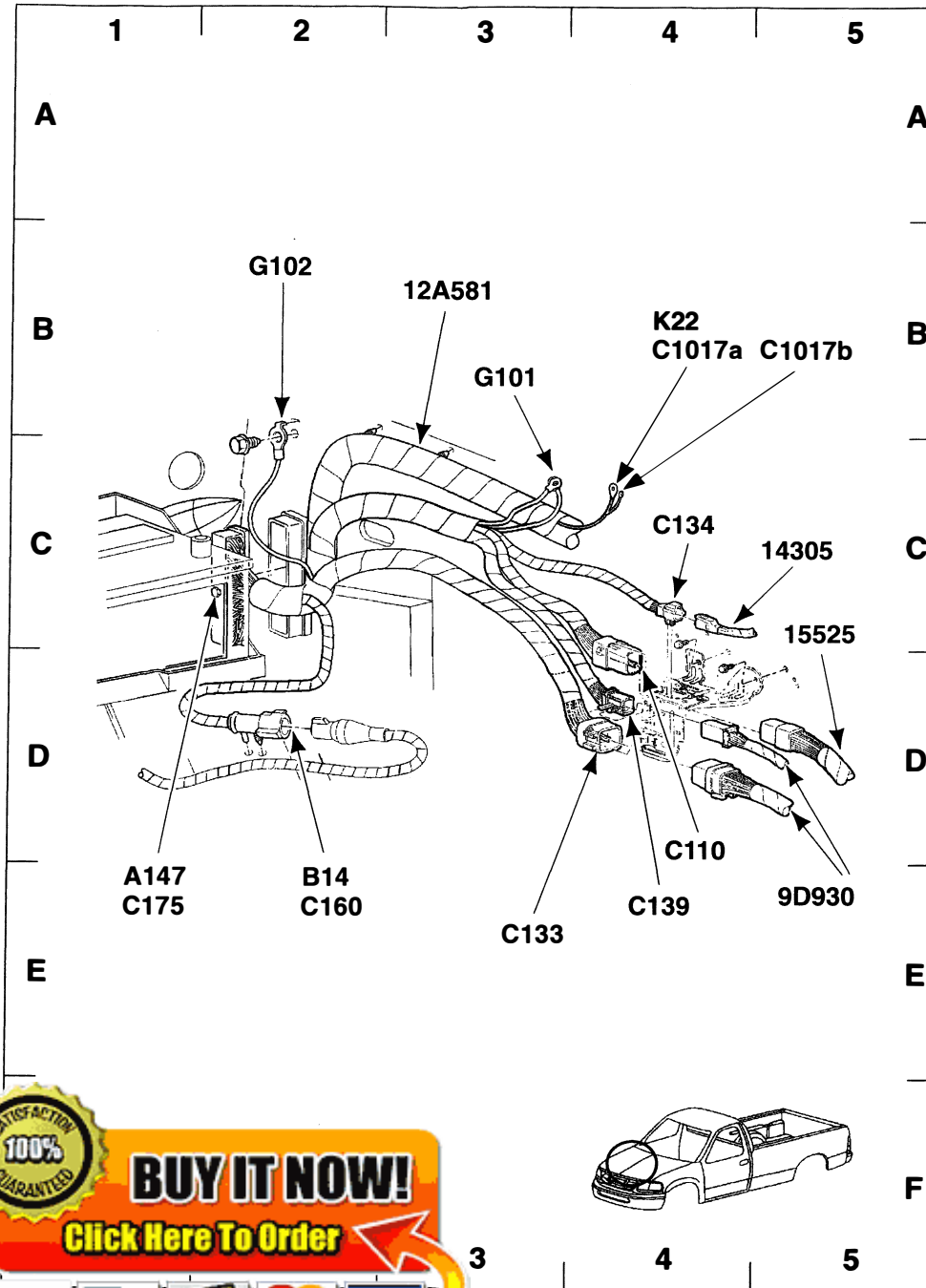


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engine compartment, rear, RH side



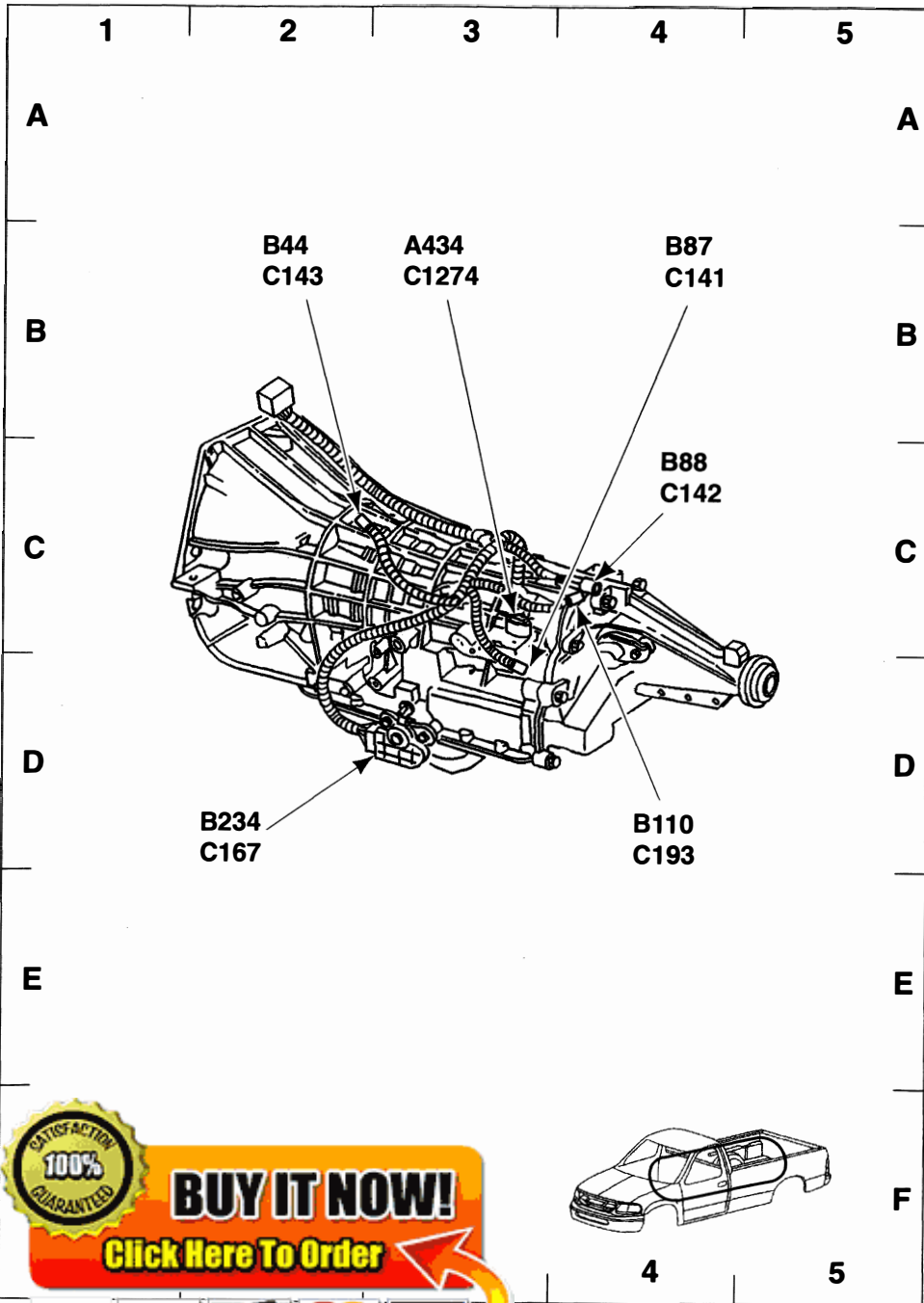
12A581	B 3
14305	C 5
15525	C 5
9D930	E 5
A147 Powertrain Control Module (PCM) (12A650)	E 1
B14 .. Wheel speed sensor, right front (2C204)	E 2
C110	D 4
C133	E 3
C134	C 4
C139	E 4
C160	E 2
C175	E 1
C1017b	B 5
C1017a	B 4
G101	B 3
G102	B 2
K22 .. Starter relay (11450)	B 4

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4R100 transmission 4X2



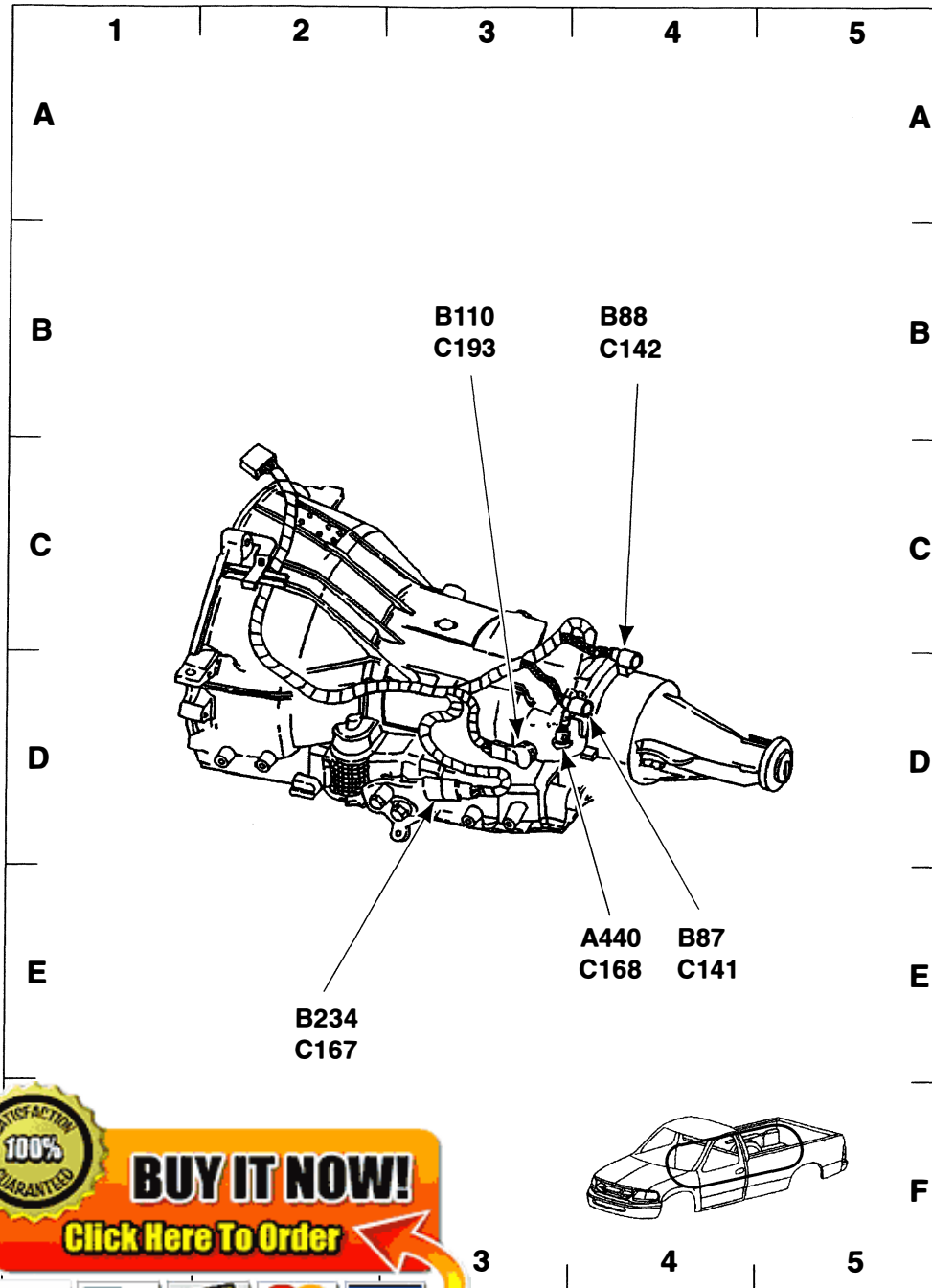
A434	4R100 transmission	B 3
B44	.. Turbine shaft speed sensor (7M101)	B 2
B87	.. Heated Oxygen Sensor (HO2S) #22 (9G444)	B 4
B88	.. Heated Oxygen Sensor (HO2S) #12 (9G444)	C 4
B110	.. Output Shaft Speed (OSS) sensor (7M101)	D 4
B234	.. Digital Transmission Range (DTR) sensor (7F293)	D 2
C141		B 4
C142		C 4
C143		B 2
C167		D 2
C193		D 4
C1274		B 3

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4R70W transmission 4X2



A440	4R70W transmission	E 4
B87	.. Heated Oxygen Sensor (HO2S) #22 (9G444)	E 4
B88	.. Heated Oxygen Sensor (HO2S) #12 (9G444)	B 4
B110	.. Output Shaft Speed (OSS) sensor (7M101)	B 3
B234	.. Digital Transmission Range (DTR) sensor (7F293)	E 2
C141	E 4
C142	B 4
C167	E 2
C168	E 4
C193	B 3

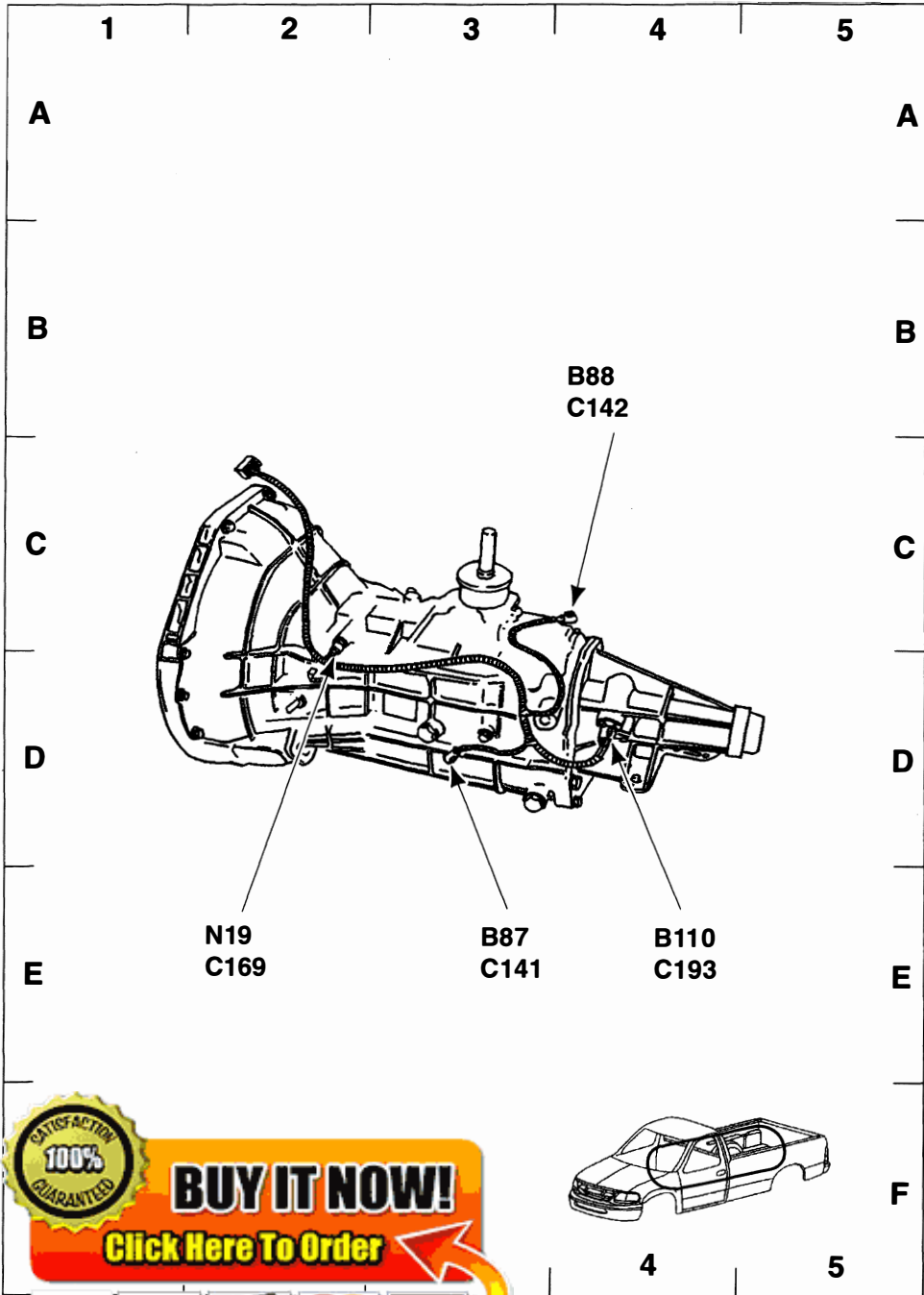
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M5R2 Transmission 4X2

B87 . . . Heated Oxygen Sensor (HO2S) #22 (9G444)	E 3
B88 . . . Heated Oxygen Sensor (HO2S) #12 (9G444)	B 4
B110 . . . Output Shaft Speed (OSS) sensor (7M101)	E 4
C141	E 3
C142	B 4
C169	E 2
C193	E 4
N19 . . . Reversing lamps switch	E 2



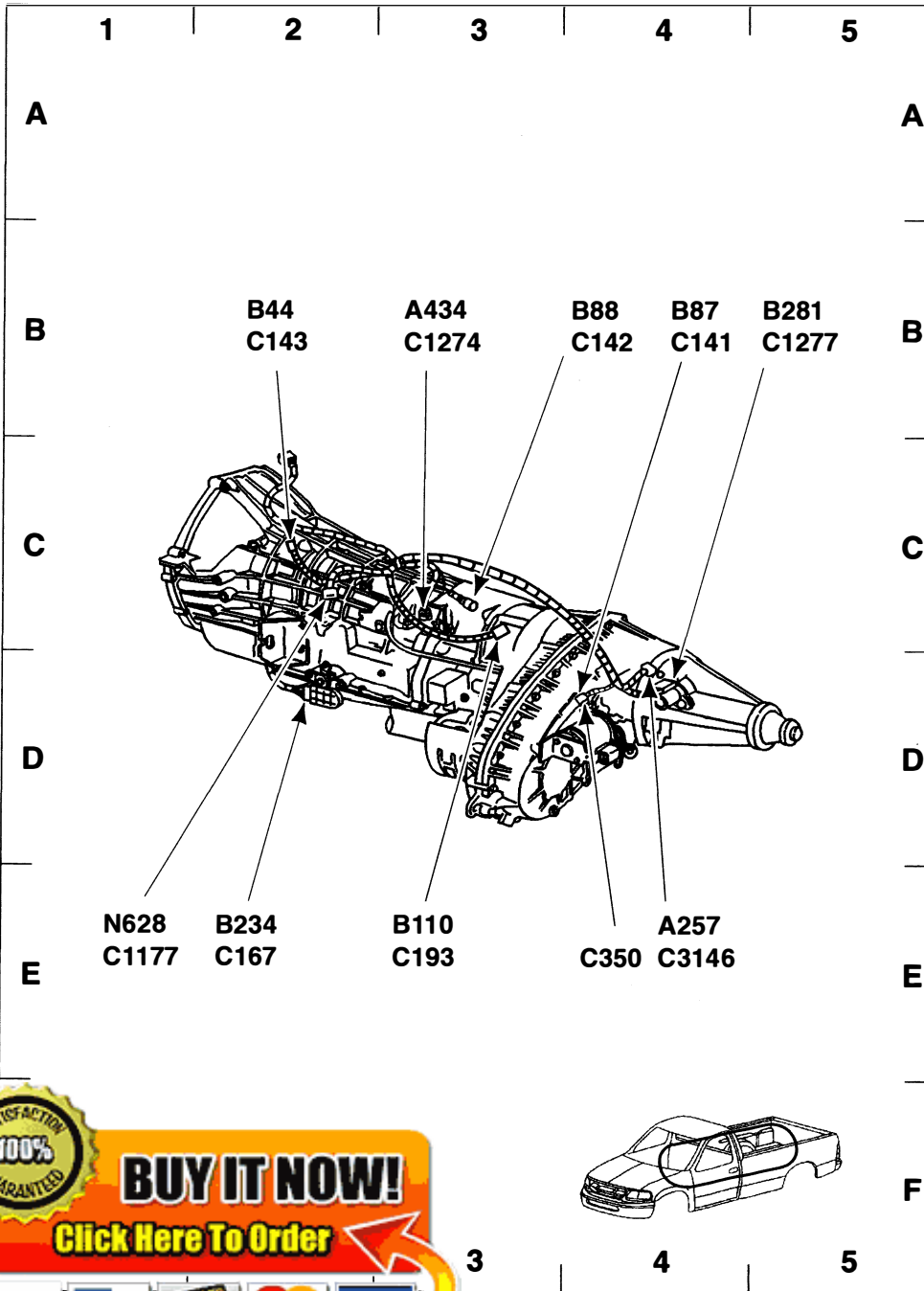
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4R100 transmission 4X4

A257	Transfer case assembly	E 4
A434	4R100 transmission	B 3
B44	Turbine shaft speed sensor (7M101)	B 2
B87	Heated Oxygen Sensor (HO2S) #22 (9G444)	B 4
B88	Heated Oxygen Sensor (HO2S) #12 (9G444)	B 4
B110	Output Shaft Speed (OSS) sensor (7M101)	E 3
B234	Digital Transmission Range (DTR) sensor (7F293)	E 2
B281	Transfer case speed sensor	B 5
C141		B 4
C142		B 4
C143		B 2
C167		E 2
C193		E 3
C350		E 4
C1177		E 1
C1274		B 3
C1277		B 5
C3146		E 4
N628	4x4 High/Low indicator switch	E 1

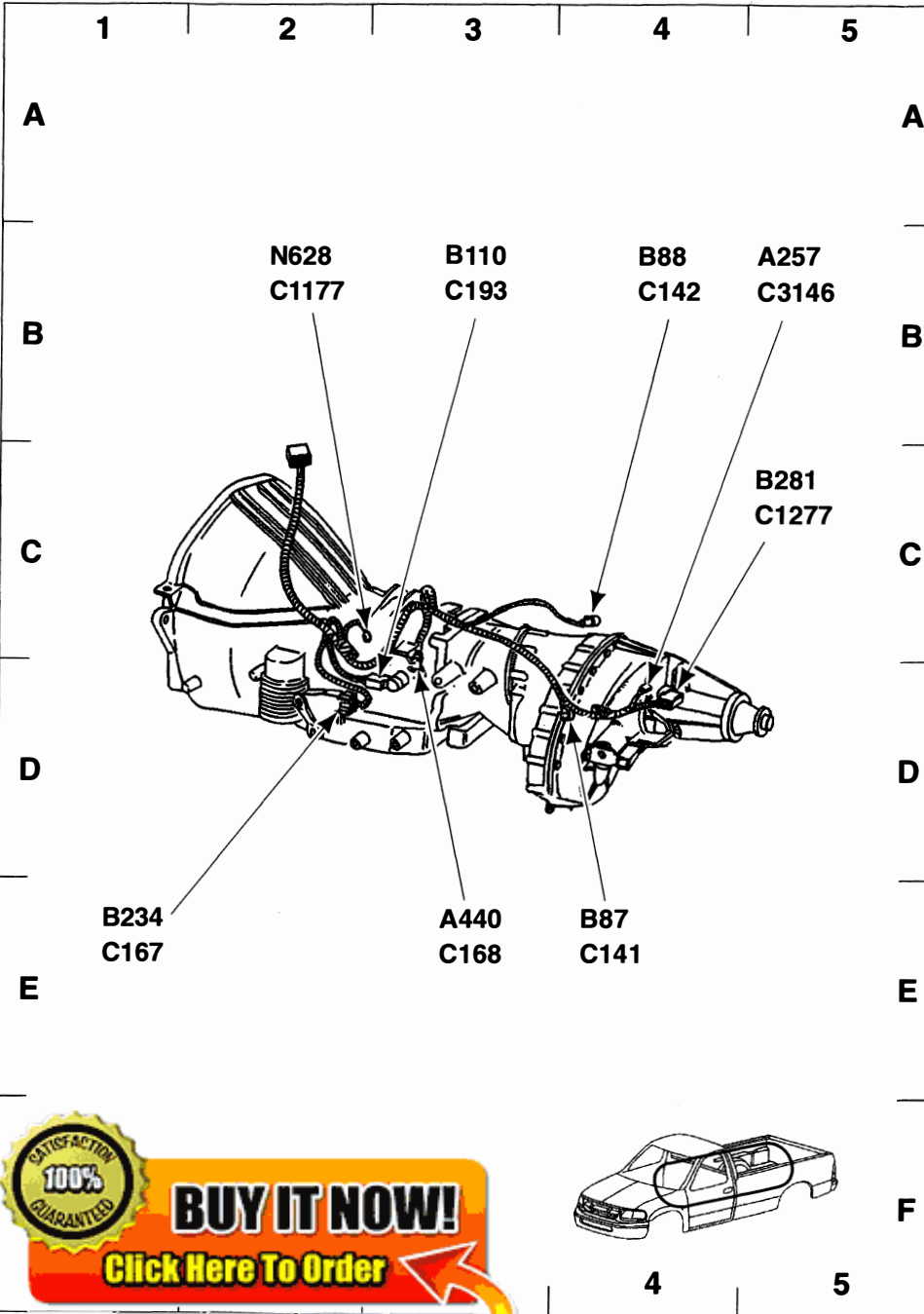


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4R70W transmission 4X4



A257	Transfer case assembly	B 5
A440	4R70W transmission	E 3
B87	Heated Oxygen Sensor (HO2S) #22 (9G444)	E 4
B88	Heated Oxygen Sensor (HO2S) #12 (9G444)	B 4
B110	Output Shaft Speed (OSS) sensor (7M101)	B 3
B234	Digital Transmission Range (DTR) sensor (7F293)	E 1
B281	Transfer case speed sensor	C 5
C141		E 4
C142		B 4
C167		E 1
C168		E 3
C193		B 3
C1177		B 2
C1277		C 5
C3146		B 5
N628	4x4 High/Low indicator switch	B 2

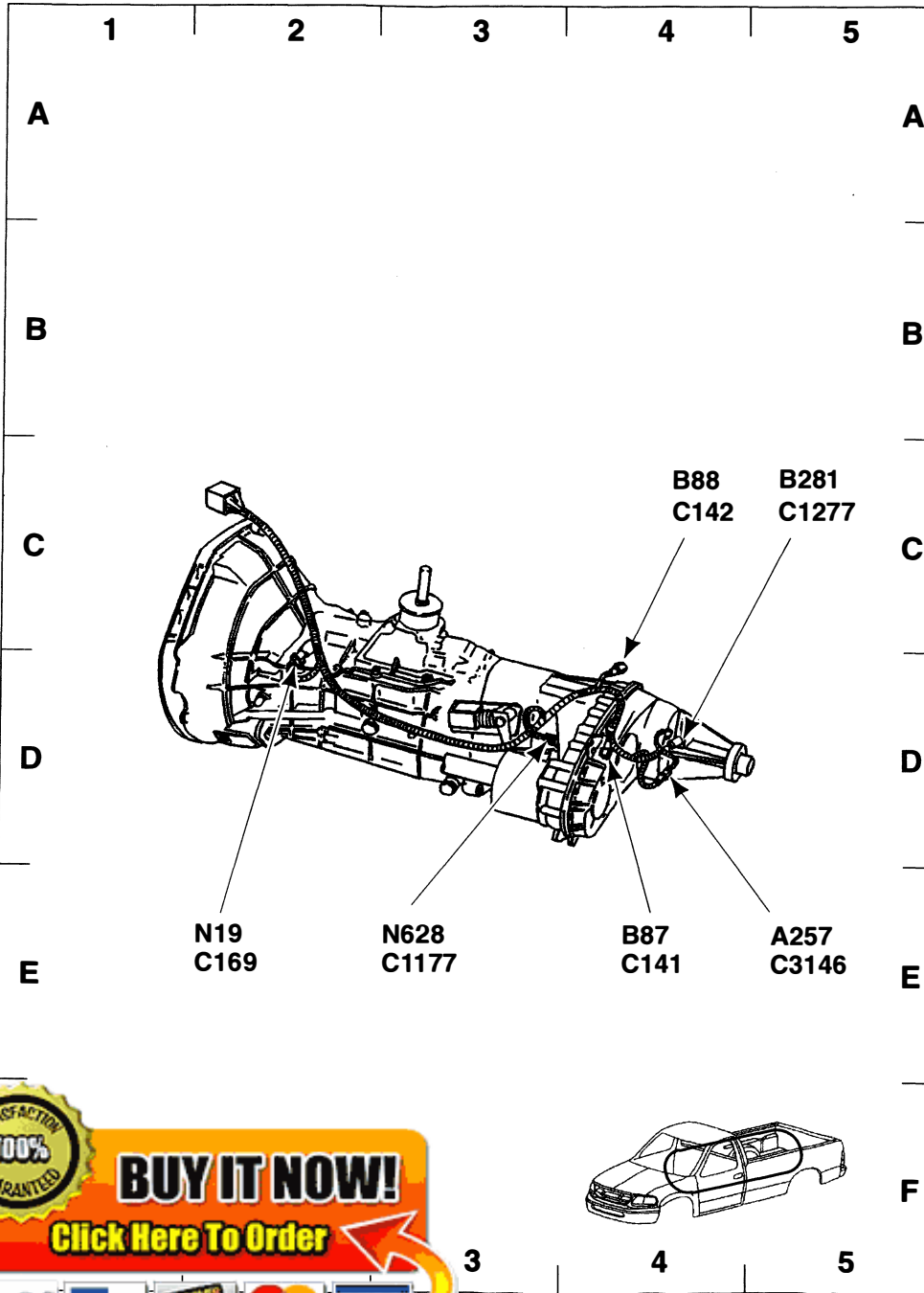
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M5R2 Transmission 4X4

A257	Transfer case assembly	E 5
B87	Heated Oxygen Sensor (HO2S) #22 (9G444)	E 4
B88	Heated Oxygen Sensor (HO2S) #12 (9G444)	C 4
B281	Transfer case speed sensor	C 5
C141		E 4
C142		C 4
C169		E 2
C1177		E 3
C1277		C 5
C3146		E 5
N19	Reversing lamps switch	E 2
N628	4x4 High/Low indicator switch	E 3

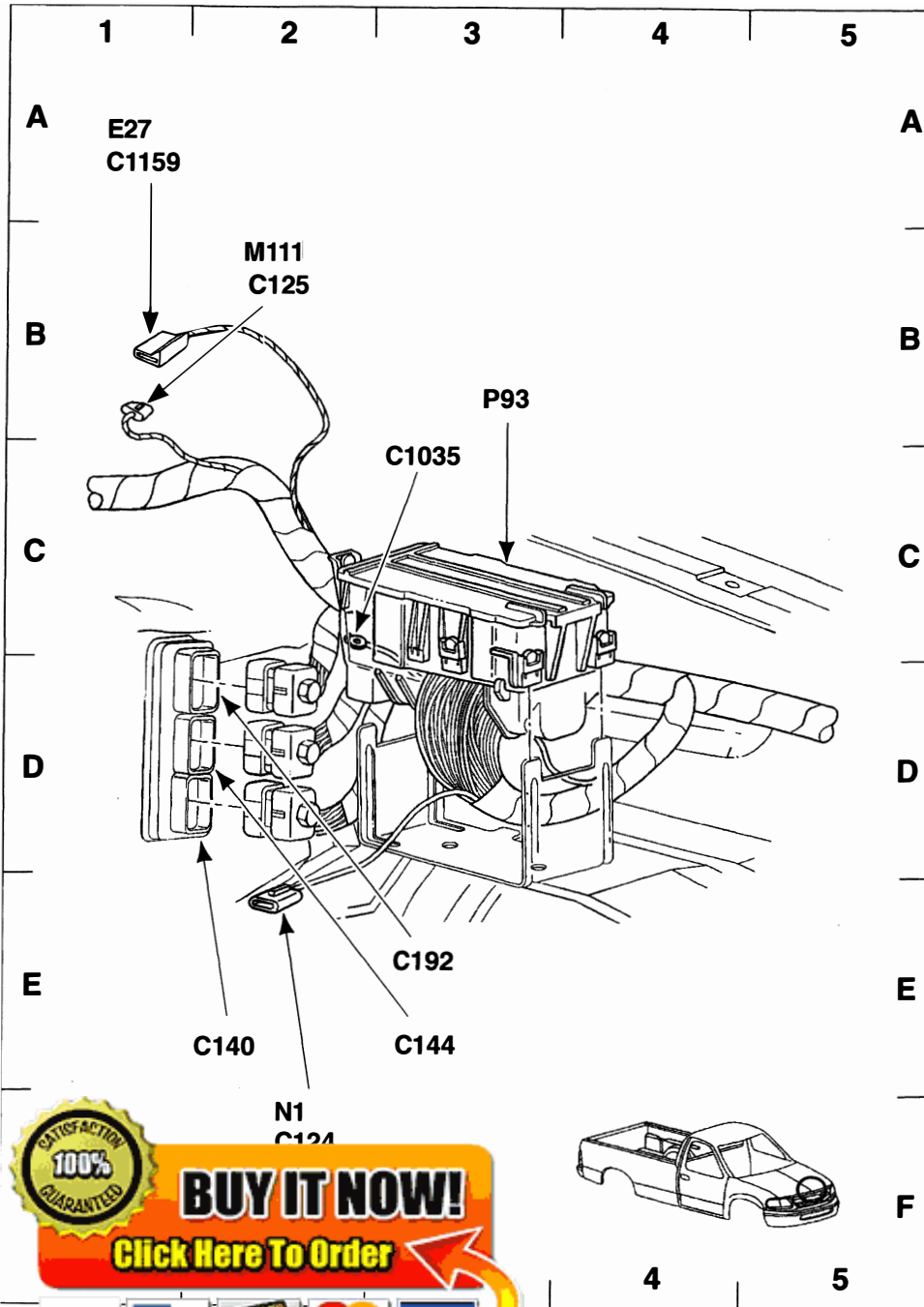


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engine compartment, rear, LH side



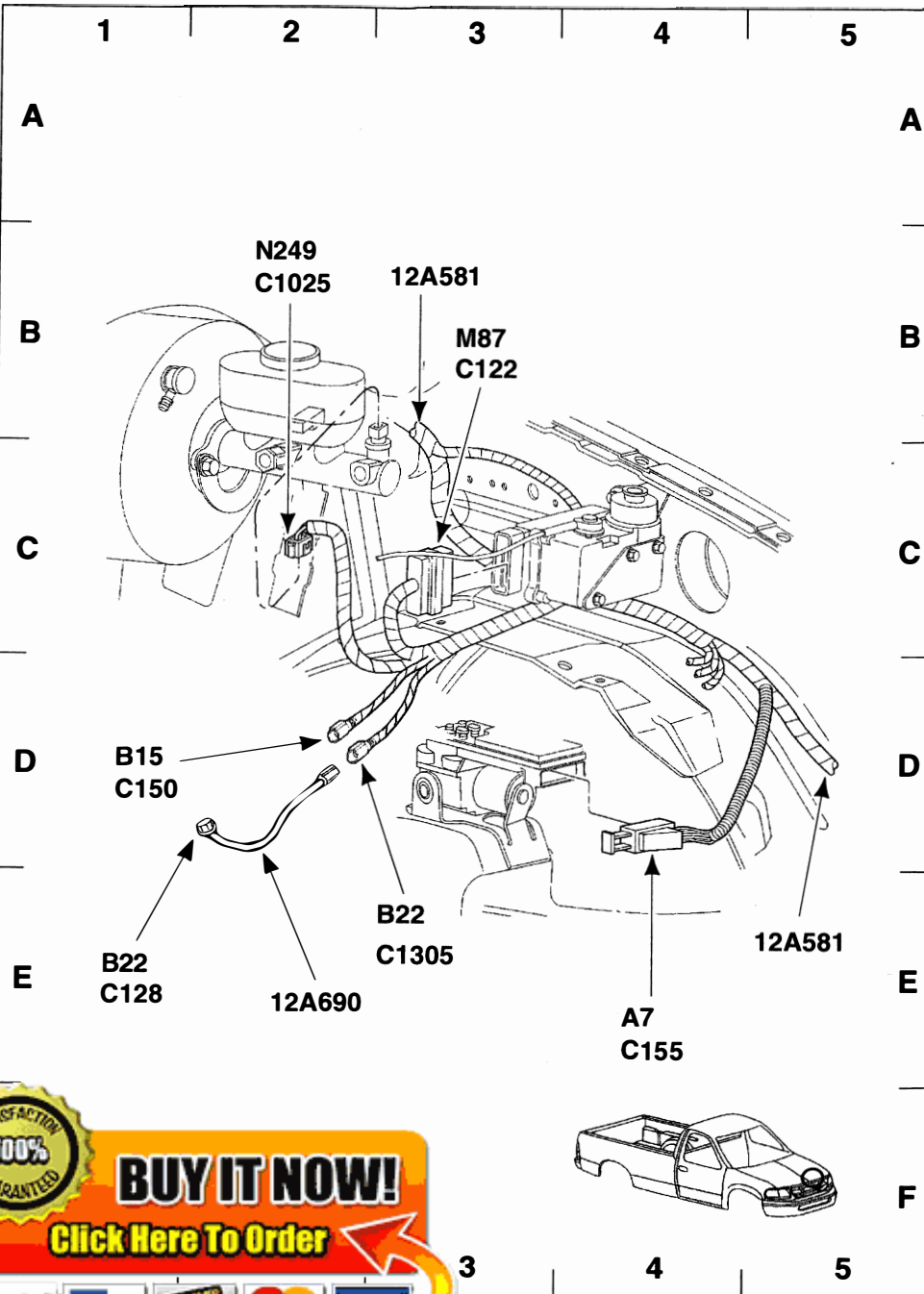
C124	F 2
C125	B 2
C140	E 2
C144	E 3
C192	E 3
C1035	C 3
C1159	A 1
E27 .. Engine compartment lamp	A 1
M111 Windshield wiper motor (17508)	B 2
N1 .. Brake fluid level switch (2L414)	F 2
P93 .. Battery Junction Box (BJB) (14A003)	B 3

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engine compartment, LH side



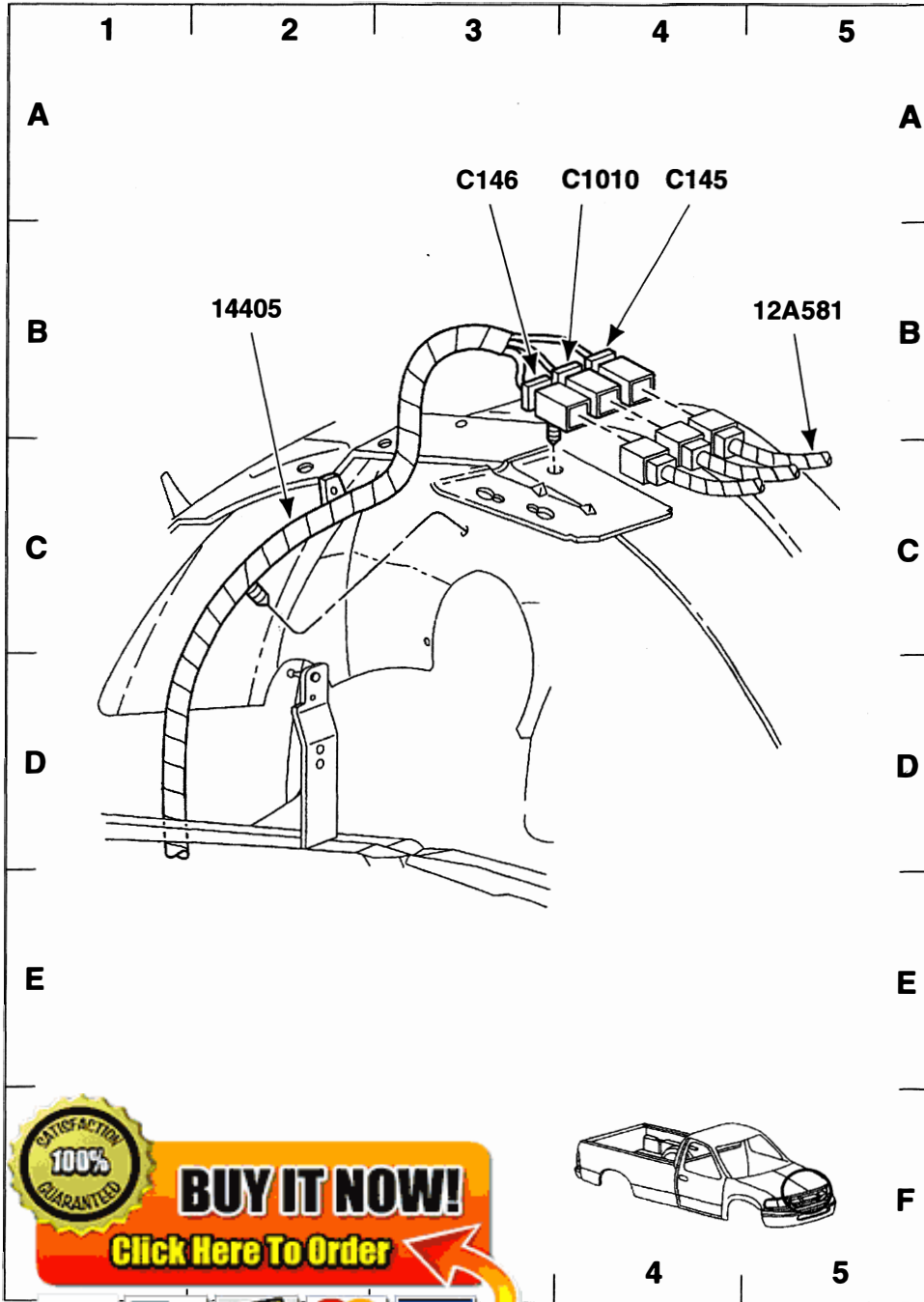
12A581	B 3
12A690	E 2
12A581	E 5
A7 .. ABS control module (2C219)	E 4
B15 .. Wheel speed sensor, left front (2C205)	D 1
B22 .. Mass Air Flow (MAF) sensor (12B579)	E 1
B22 .. Mass Air Flow (MAF) sensor (12B579)	E 3
C122	B 3
C128	E 1
C150	D 1
C155	E 4
C1025	B 2
C1305	E 3
M87 .. Speed control servo (9C735)	B 3
N249 .. Brake pressure switch (2B264)	B 2

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engine compartment, LH side



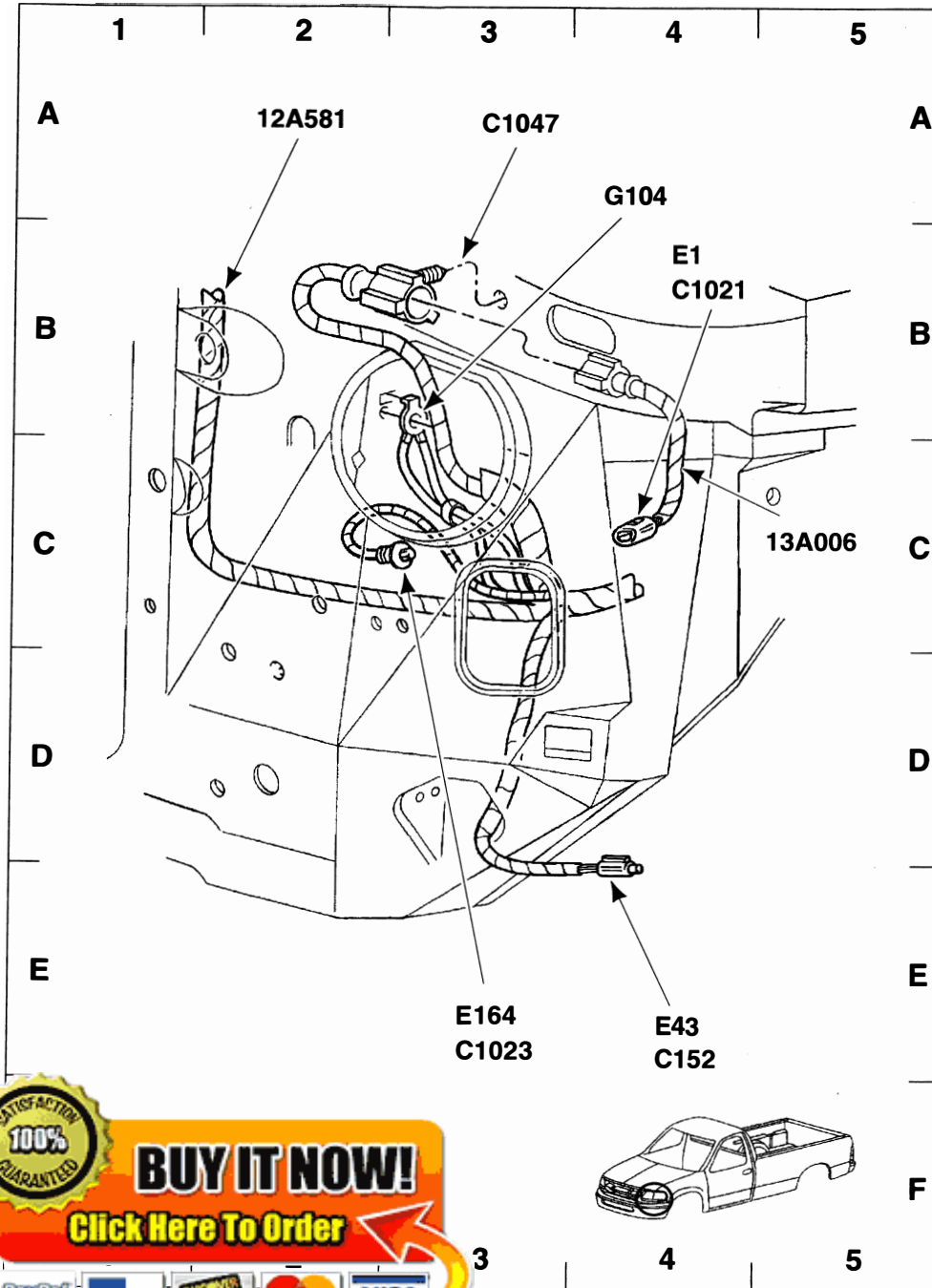
12A581	B 5
14405	B 2
C145	A 4
C146	A 3
C1010	A 4

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front of vehicle, LH side



12A581	A 2
13A006	C 5
C152	E 4
C1021	B 4
C1023	E 3
C1047	A 3
E1 ... Headlamp, left (13008)	B 4
E43 .. Fog lamp, left front (15200)	E 4
E164 . Park/turn lamp, left front (13411)	E 3
G104	A 4

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