

2004

Wiring Diagrams



E-SERIES



E-Series Wiring Diagrams

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Powertrain Control Module (PCM) (12A650) - 6.0L Diesel	25-1	S127 - Stripped chassis	13-25
Powertrain Control Module (PCM) (12A650) - 6.8L	24-1	S128	13-20
Power window motor, driver side front (23395)	100-2	S130	93-1
Power window motor, passenger side front (23394)	100-1	S132 - Except stripped chassis	90-2
Radio (18806)	130-1	S134 - Except stripped chassis	90-3
Rear A/C blower speed relay 1	54-4	S135 - Diesel	31-4
Rear A/C blower speed relay 2	54-4	S135 - Except diesel	28-4
Rear axle speed sensor (4B409)	42-2	S136 - 4.6L	22-6
Rear interior lamp - with full headliner	89-3	S136 - 5.4L	23-3
Rear Seat Entertainment (RSE) module	132-1	S136 - 5.4L Natural Gas Vehicle (NGV)	26-4
Restraints control module	46-1	S136 - 6.8L	24-2
Reversing lamp relay	93-1	S136 - 6.0L Diesel	25-7
Reversing lamp, left (13411)	93-2	S138 - 4.6L	22-5
Reversing lamp, right (13411)	93-2	S138 - 5.4L	23-5
S100 - 4.6L	22-7	S138 - 6.8L	24-5
S100 - 5.4L	23-6	S138 - 6.0L Diesel	25-7
S100 - 5.4L Natural Gas Vehicle (NGV)	26-6	S140 - Stripped Chassis	10-15
		S140	10-3

S141	54-3	S161 - 5.4L	13-18
S142 - 4.6L	22-1	S161 - 6.8L	13-19
S142 - 5.4L	23-1	S162 - 6.8L	13-19
S142 - 5.4L Natural Gas Vehicle (NGV)	26-1	S163	10-5
S142 - 6.0L Diesel	25-1	S164 - Except stripped chassis	85-1
S142 - 6.8L	24-1	S164 - Except stripped chassis	97-1
S143 - 6.0L Diesel	10-2	S165 - Except stripped chassis	13-23
S143 - except diesel	10-1	S169	10-15
S144	54-2	S169	10-3
S145 - 6.0L Diesel	13-5	S170	10-15
S147 - 6.0L Diesel	10-4	S170	10-3
S147	10-6	S171	10-15
S149	42-1	S171	10-3
S151 - 4.6L	22-5	S172	10-3
S152 - 4.6L	22-3	S174	90-3
S155 - 5.4L	23-6	S177	13-8
S155 - 5.4L Natural Gas Vehicle (NGV)	26-6	S179	24-3
S155 - 6.8L	24-7	S182 - Except stripped chassis	14-1
S156 - 4.6L	13-17	S184 - Except stripped chassis	14-1
S156 - 5.4L	13-18	S185 - 5.4L Natural Gas Vehicle (NGV)	26-9
S157 - 4.6L	22-5	S186	24-3
S157 - 5.4L	23-5	S190 - 5.4L Natural Gas Vehicle (NGV)	20-1
S157 - 5.4L Natural Gas Vehicle (NGV)	26-5	S194 - Stripped chassis	95-2
S157 - 6.8L	24-5	S195 - Stripped chassis	10-17
S158 - 4.6L	22-5	S196 - Stripped chassis	85-2
S158 - 5.4L	23-5	S196 - Stripped chassis	97-2
S158 - 6.8L	24-5	S197 - Stripped chassis	10-16
S159 - 5.4L	23-7	S198 - 6.0L Diesel	25-12
S159 - 5.4L Natural Gas Vehicle (NGV)	26-7	S199 - Stripped chassis	10-16
S159 - 6.8L	24-7	S202	10-13
S160 - 5.4L	23-6	S203	13-11
S160 - 5.4L Natural Gas Vehicle (NGV)	26-6	S204	10-7
S160 - 6.8L	24-6	S205	13-13
S161 - 4.6L	13-17	S206	13-23
		S207	10-13

S208	13-20	S239 – Hinged side door	110-2
S209	89-2	S239 – Sliding side door	110-3
S212 – Except stripped chassis	13-23	S240	130-2
S213	13-18	S241	130-2
S213 – Stripped chassis	85-2	S242	13-11
S214	10-13	S243	130-2
S214 – Stripped chassis	10-18	S244	130-2
S215	90-1	S245	13-21
S215 – Stripped chassis	90-4	S246	13-25
S216	13-25	S248	111-4
S217	90-1	S250	10-12
S217 – Stripped chassis	90-4	S251	111-1
S218	13-13	S252	111-1
S219 – Stripped chassis	13-14	S253	89-1
S220 – Stripped chassis	132-3	S256	89-1
S221	13-14	S261	13-13
S222	132-3	S262 – Except stripped chassis	14-1
S223	10-9	S263 – Except stripped chassis	14-1
S224 – Except stripped chassis	90-3	S265	89-1
S226 – Except stripped chassis	14-1	S266	13-9
S227	13-21	S268	60-2
S228 – Stripped chassis	14-1	S269 – Stripped chassis	14-2
S228 – 6.0L Diesel	14-2	S269 – 6.0L Diesel	14-1
S229	13-5	S271	13-10
S230	13-8	S272	132-3
S231 – Except stripped chassis	90-3	S274	132-3
S233	10-9	S276	13-14
S234	13-24	S279 – Stripped chassis	85-2
S235	10-10	S280 – Stripped chassis	13-8
S236	13-21	S281 – Stripped chassis	13-10
S237	13-12	S282	13-20
S238 – Hinged side door	110-2	S283 – Stripped chassis	90-5
S238 – Sliding side door	110-3		

S284 – Stripped chassis	10-18	S408	110-2
S285 – Stripped chassis	10-17	S413 – Cutaway, stripped chassis	10-14
S286 – Stripped chassis	10-18	S430	13-23
S288	132-5	S431	93-2
S291	13-13	S432 – Cutaway	10-8
S297	10-7	S432 – 6.0L Diesel	10-2
S300	10-11	S500	10-9
S301	89-2	S501	13-21
S302	89-2	S502 – Cutaway	110-4
S303	54-5	S503 – Cutaway	110-4
S304	54-5	S503 – Sliding side door	110-3
S305	54-5	S504	124-1
S306	13-24	S600	10-9
S307 – 6.0L Diesel	10-12	S911	89-3
S307	10-8	S912	89-3
S312	10-14	S913	10-11
S314	89-3	S914	13-21
S316 – 5.4L Natural Gas Vehicle (NGV)	26-11	S915 – With rear seat entertainment	10-12
S317	10-8	S916	132-4
S318 – 5.4L Natural Gas Vehicle (NGV)	26-9	S920	10-7
S319 – 5.4L Natural Gas Vehicle (NGV)	26-12	S921	132-4
S320	10-8	S930	10-12
S321	26-12	S941	132-4
S322	10-8	S942	132-4
S323	10-7	S1005	10-6
S324	23-3	S1005 – 6.0L Diesel	10-4
S327	132-4	S1008	13-1
S381	132-4	S1019	13-5
S400	54-4	S1022	13-20
S401	10-11	S1024 – Except stripped chassis	85-1
S402	10-11	S1025 – Except stripped chassis	85-1
S403	93-2	S1027	13-3
S406	10-11	S1028	13-5
S407	110-2	S1029 – Except diesel.	10-6

S1029 – 6.0L Diesel	10-4	S1072 – 6.0L Diesel	13-2
S1030 – Except stripped chassis	13-8	S1073 – 6.0L Diesel	13-2
S1031 – Stripped chassis	13-5	S1074 – 6.0L Diesel	13-2
S1032	13-5	S1075 – 6.0L Diesel	13-2
S1033	13-4	S1076 – 6.0L Diesel	13-2
S1034	13-5	S2003	132-3
S1035	10-3	S2004	13-22
S1035 – 5.4L Natural Gas Vehicle (NGV)	26-10	S2005	132-4
S1049	25-2	S2007	132-3
S1050 – 5.4L Natural Gas Vehicle (NGV)	26-11	S2008	132-3
S1051	10-1	S2009	132-4
S1052 – 6.0L Diesel	13-2	S2010	90-2
S1052 – Except diesel	54-3	S2012	13-9
S1053	10-1	S2013 – 5.4L Natural Gas Vehicle (NGV)	26-11
S1053 – Stripped chassis	10-16	S2020 – Stripped chassis	13-14
S1054 – 6.0L Diesel	13-2	Seat adjust switch, driver side front (14A701)	120-1
S1055 – 6.0L Diesel	13-2	Side door ajar switch, right	89-31
S1056 – 6.0L Diesel	13-2	Side door lock actuator, right – Hinged side door	110-2
S1057 – 6.0L Diesel	25-6	Side door lock actuator, right – Sliding side door	110-3
S1058 – 6.0L Diesel	25-8	Sliding door ajar switch, right – Van and Wagon	89-1
S1059 – 6.0L Diesel	25-8	Sliding door contact switch, right – Sliding side door	110-3
S1060 – 6.0L Diesel	25-3	Sliding door contact switch, right	130-2
S1061	10-2	Speaker, left front (18808)	130-1
S1061 – 6.0L Diesel	10-2	Speaker, left middle	130-2
S1062 – 6.0L Diesel	10-4	Speaker, left rear (18808)	130-2
S1063	25-3	Speaker, right front (18808)	130-1
S1064 – 6.0L Diesel	25-10	Speaker, right middle	130-2
S1065	13-25	Speaker, right rear (18808)	130-2
S1066 – 6.0L Diesel	10-4	Speed control servo (9C735) – except diesel	31-2
S1067 – Natural Gas Vehicle (NGV)	13-6	Speed control switch – 6.0L Diesel	31-3
S1068 – 6.0L Diesel	25-1	Speed control switch – except diesel	31-1
S1069	10-1	Speed sensor assembly (7M101) –TorqShift	29-1
S1071 – 6.0L Diesel	13-2	Starter motor (11002) – 6.0L Diesel	20-2

Starter relay (11450) – 6.0L Diesel	20-2	Turbine Shaft Speed (TSS) sensor – 5.4L	23-4
Starter relay (11450) – Except diesel	20-1	Turbine Shaft Speed (TSS) sensor – 5.4L Natural Gas Vehicle (NGV)	26-5
Temperature blend door actuator (19E616)	54-2	Turbine Shaft Speed (TSS) sensor – 6.8L	24-4
Throttle Position Sensor (TPS) (9B989) – 4.6L	22-5	Vanity mirror lamp, left (04100)	89-3
Throttle Position Sensor (TPS) (9B989) – 5.4L	23-5	Vanity mirror lamp, right (04100)	89-3
Throttle Position Sensor (TPS) (9B989) – 5.4L Natural Gas Vehicle (NGV)	26-5	Variable Geometric Turbo Activator	25-10
Throttle Position Sensor (TPS) (9B989) – 6.0L Diesel	25-8	Vehicle Security Module (VSM) (15K602)	111-1
Throttle Position Sensor (TPS) (9B989) – 6.8L	24-5	Video cassette player	132-1
Trailer electronic brake control connector – Except stripped chassis	95-5	Video display, left	132-4
Trailer tow connector, 4-pin	95-3	Video display, right	132-4
Trailer tow connector, 7-pin	95-3	Water-in-fuel sensor – 6.0L Diesel	25-2
Trailer tow relay, battery charge	95-2	Wheel speed sensor, left front (2C205)	42-2
Trailer tow relay, left turn	95-4	Wheel speed sensor, right front (2C204)	42-2
Trailer tow relay, parking lamp	95-3	Windshield washer pump motor (17618)	81-3
Trailer tow relay, reversing lamp	95-3	Windshield wiper motor (17508) – Except stripped chassis	81-1
Trailer tow relay, right turn	95-4	Wiper Control Module (WCM) – Except stripped chassis	81-1
TorqShift Transmission	29-3	Wiper Control Module (WCM) – Stripped chassis	81-2

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.

Current Flow (1)

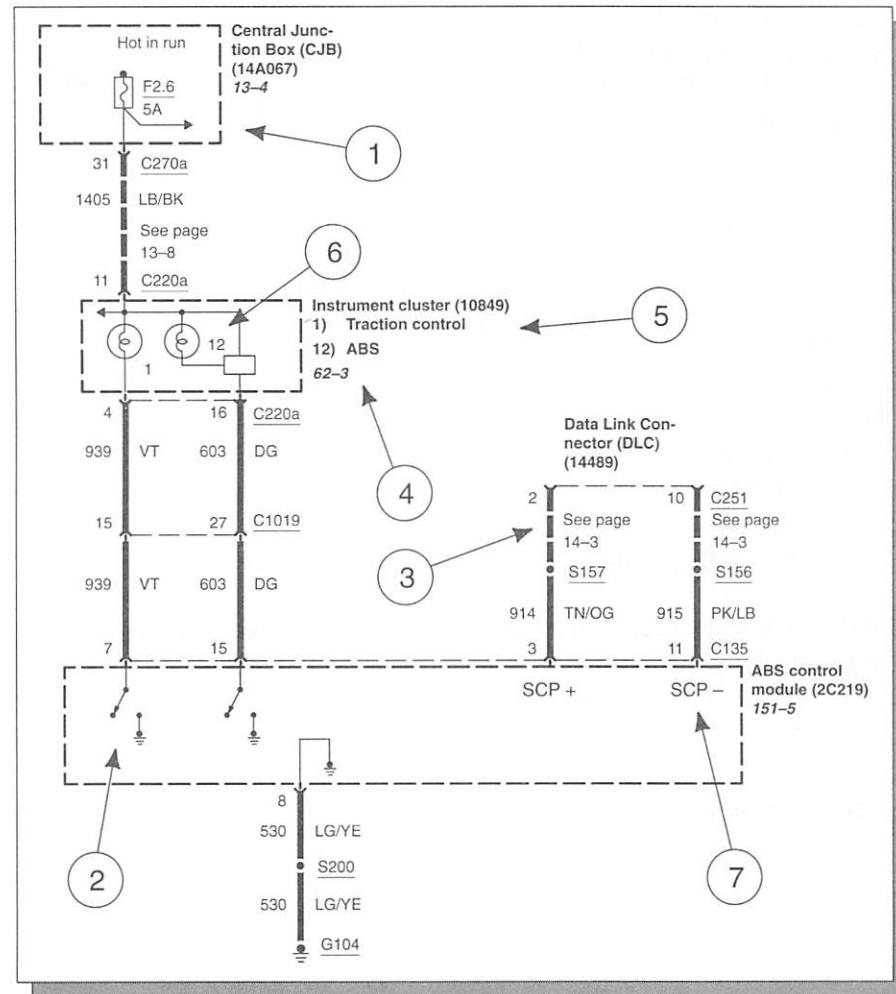
Each cell normally starts with the component that powers the circuit, such as a fuse or the ignition switch. Current flow is shown from the power source at the top of the page to ground at the bottom of the page. In order to concentrate on the essential parts, power supply and ground connections are 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 is 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. 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. These part numbers will appear any place the component name appears in the publication.

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.

Circuit Function Identifiers (7)

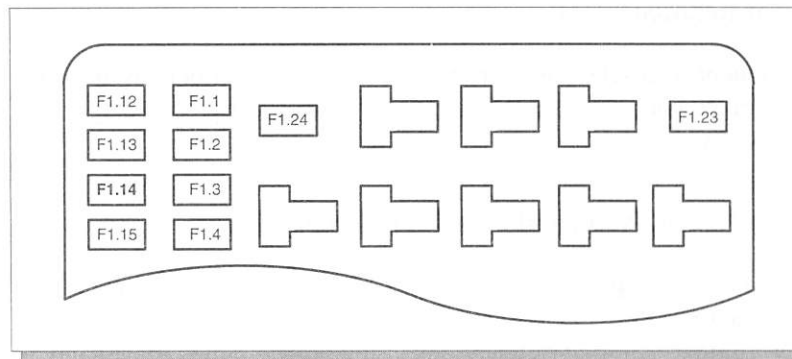
Some components without internal schematics use symbols or text to describe the function of a circuit in a system.

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.

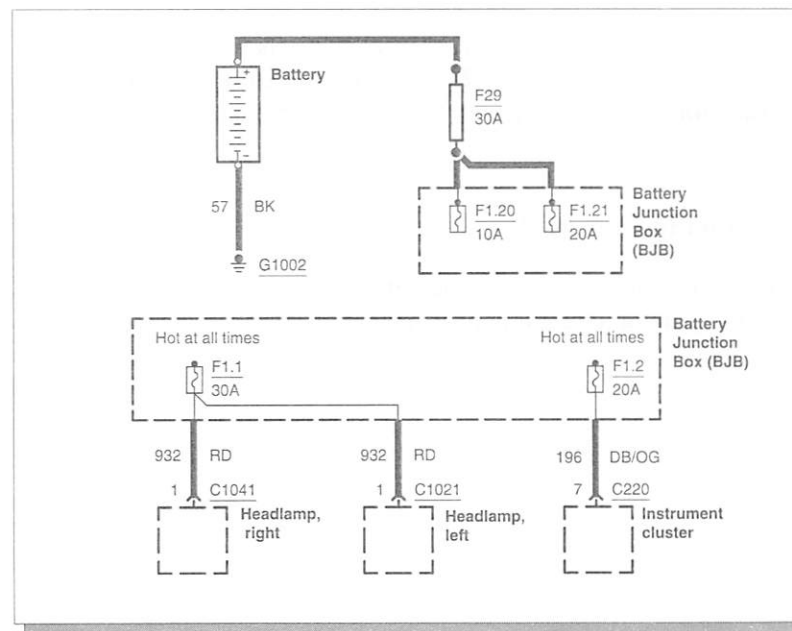
Fuse and Relay Numbering and Naming

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.



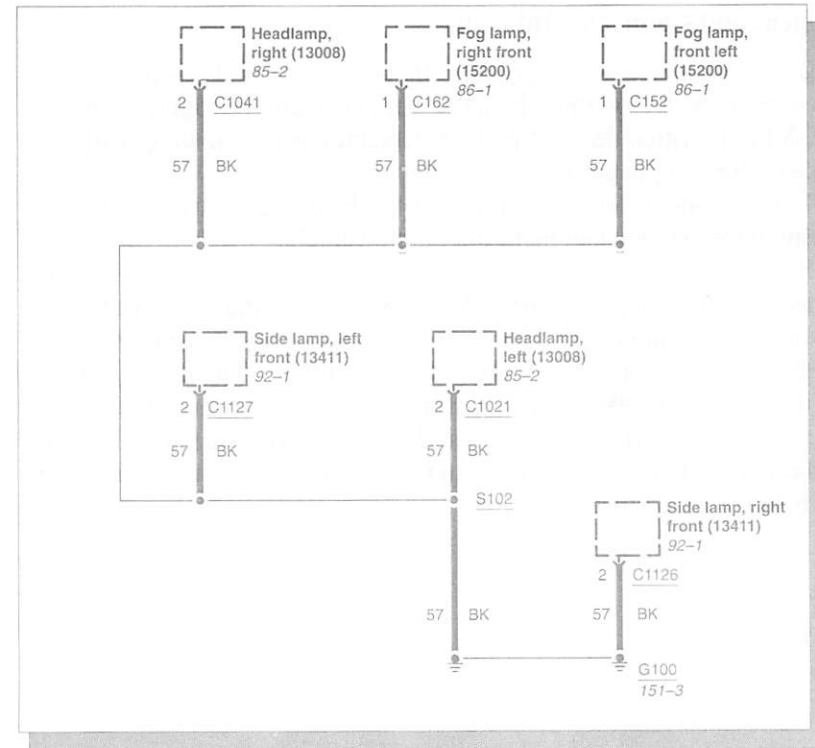
Power Distribution

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.



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.

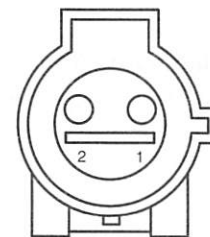
Cell 151 "Component Location Views" show the components and their connecting wires as they can be found on the vehicle.

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 component name and below the connector number or above the connector face itself. Wiring harness designations are listed in cell 152 "Component Location Charts". Circuit function charts are located below each connector.

C150 (BK)

12A581

Wheel speed sensor, left front (2C205)

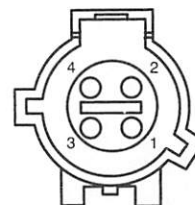


FEMALE

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

C1033 (BK)

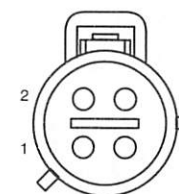
12B637



FEMALE

- (1) -
- (2) 1102 (20 YE/LG)

14B102



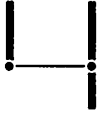












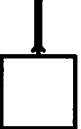


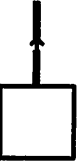






MALE


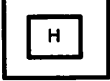














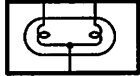




- (7) 359 (20 GY/RD)
- (8) -

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

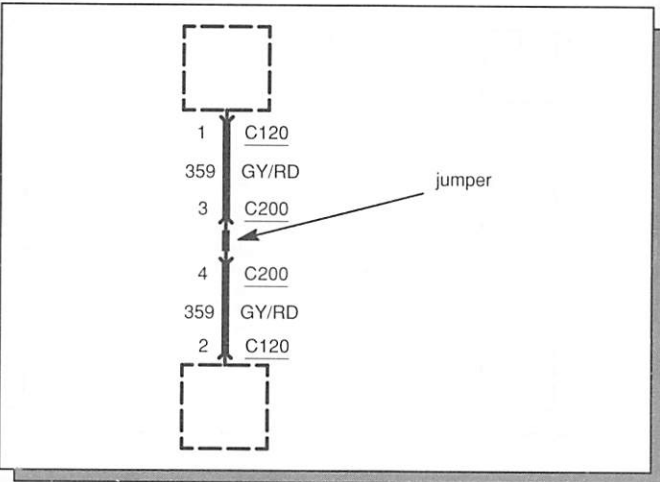
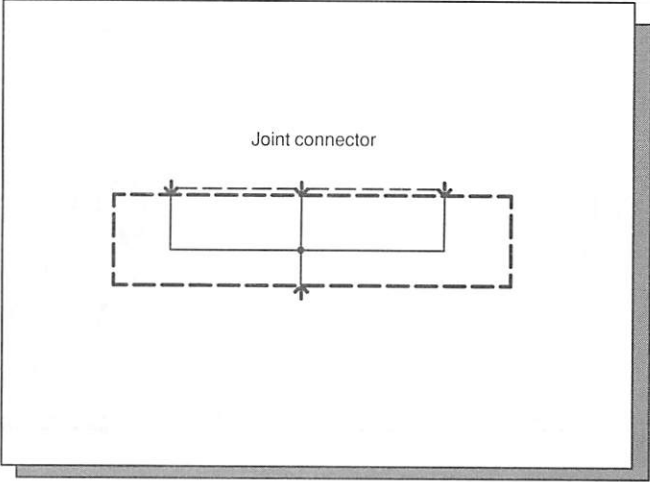
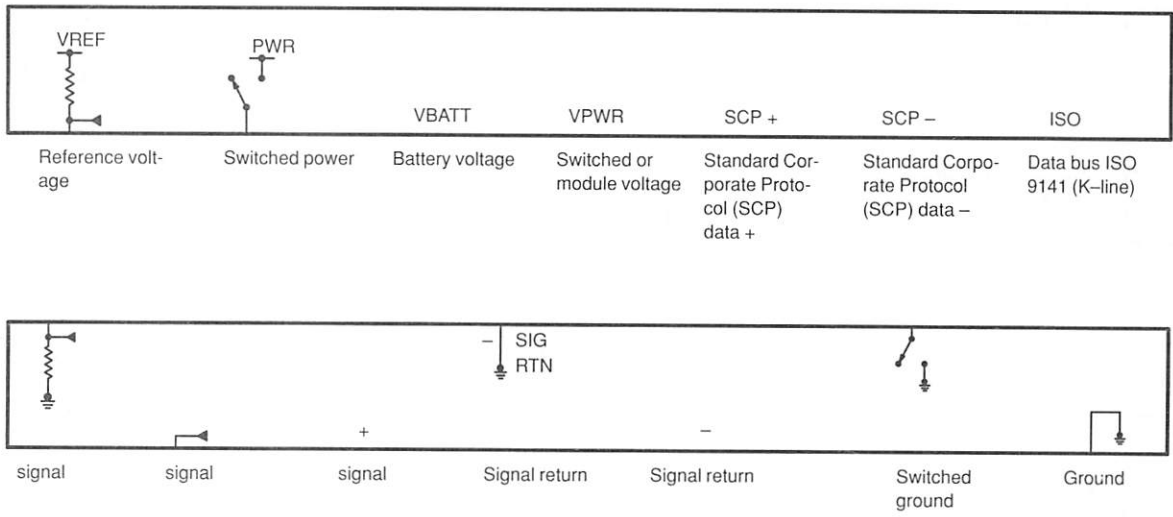
	Distributed splice		Entire component		Resistor
	Crossed wiring without connection		Part of a component		Potentiometer (pressure or temperature)
	Splice		Component case directly attached to metal part of vehicle (ground)		Potentiometer (outside influence)
	Removable connection		Component with screw terminals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

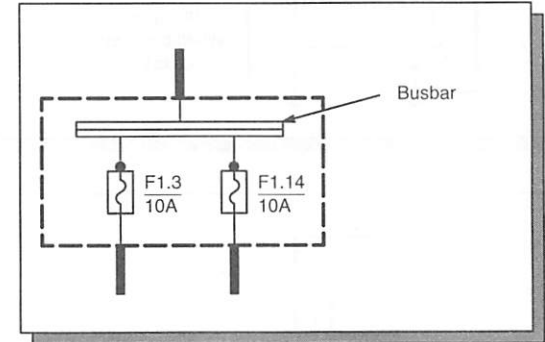
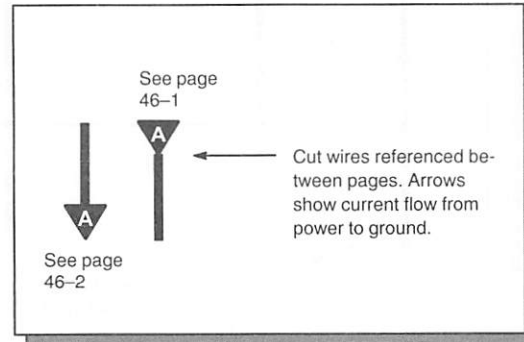
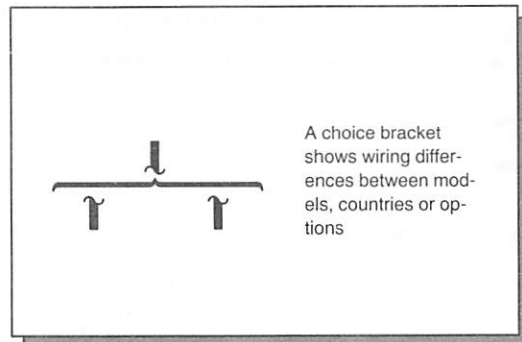
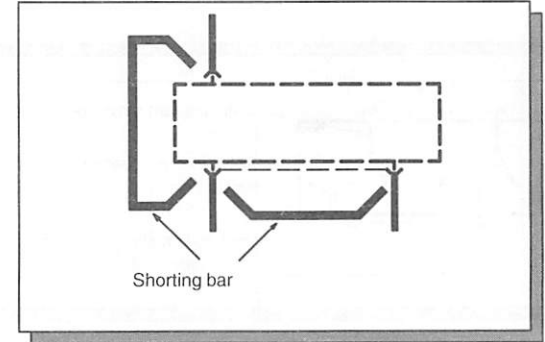
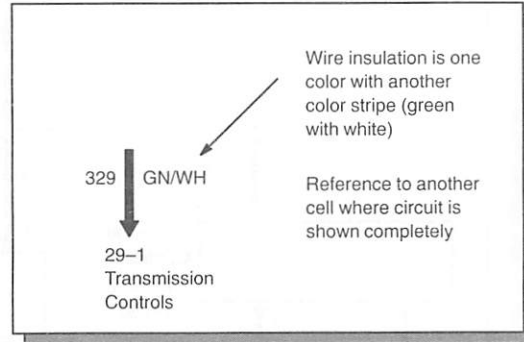
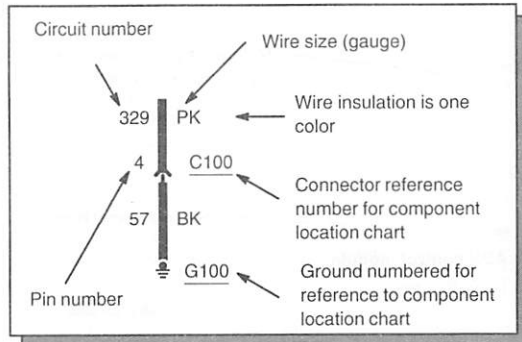
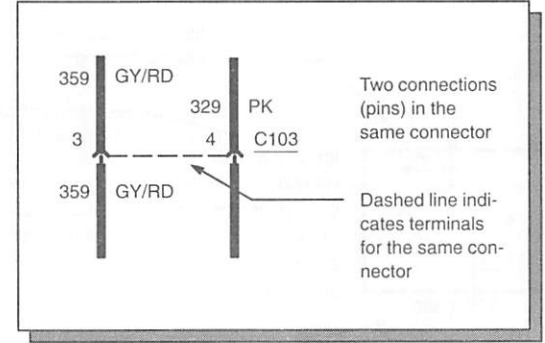
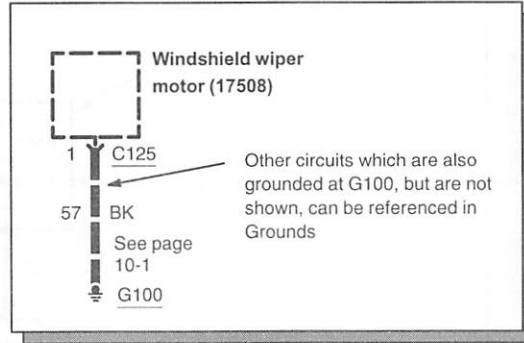
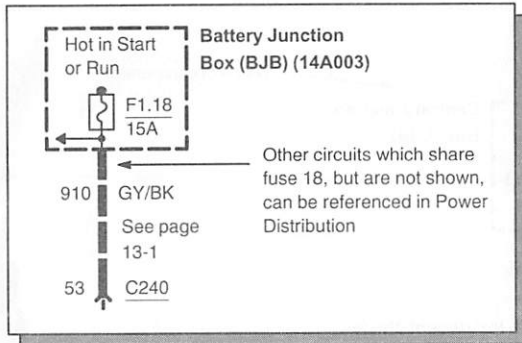
	Ignition coil assembly		Hall sensor		Antenna
	Solenoid controlled valve or clutch solenoid		Air bag sliding contact (14A664)		Permanent magnet, one-speed-motor
	Light emitting diode (LED)		Diode, current flows in direction of arrow		Permanent magnet, two-speed-motor
	Capacitor		Transistor		Rotational sensor
	Variable capacitor		Lamp		Shield
	Piezoelectric sensor		Bifilament lamp		Horn or speaker
	Coil		Gauges		Fusible link

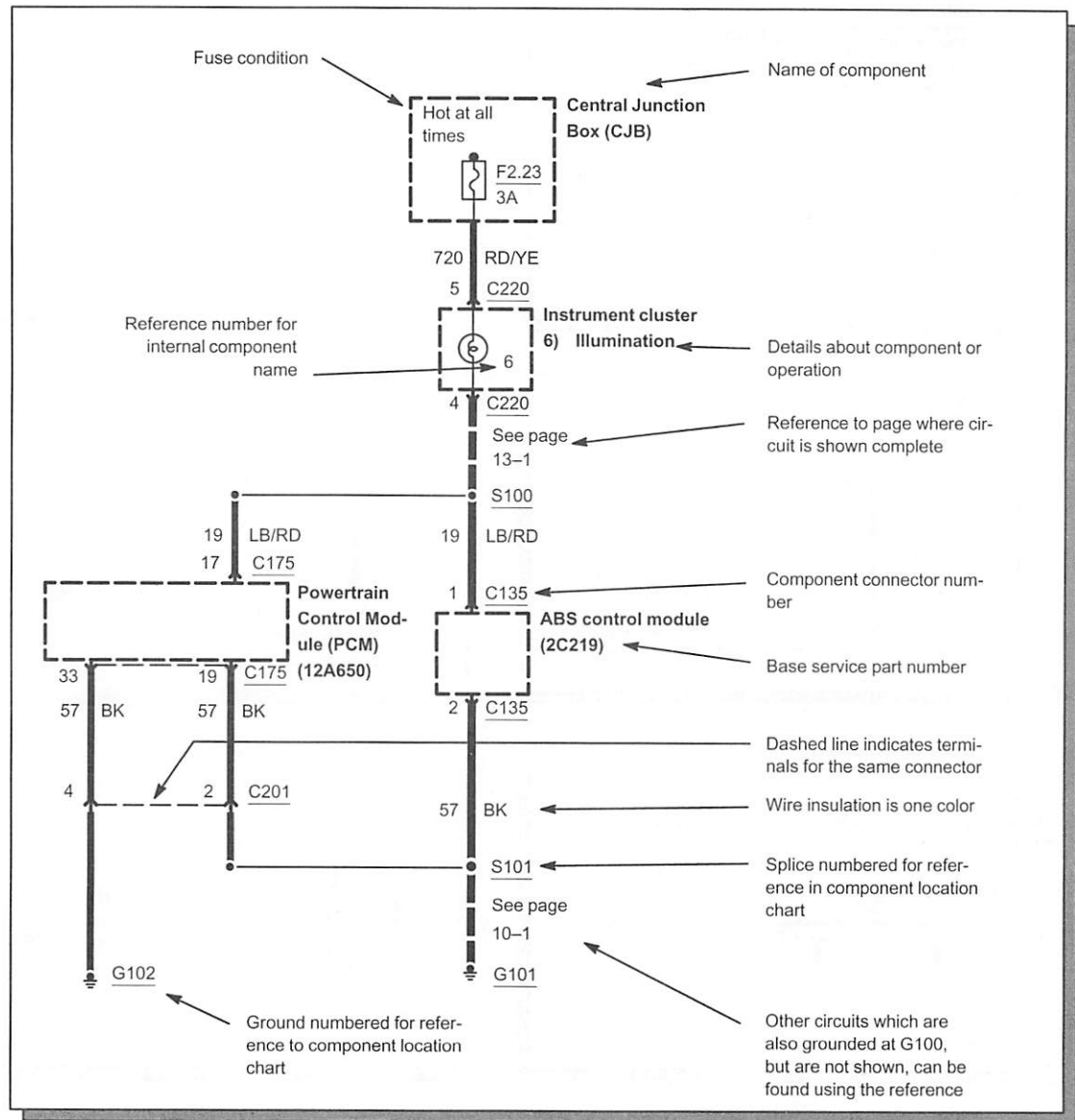
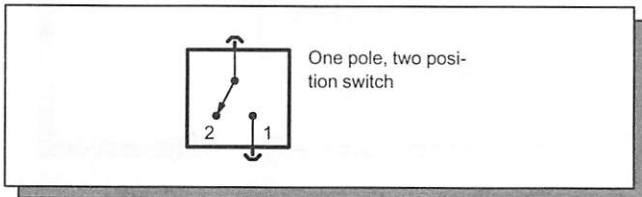
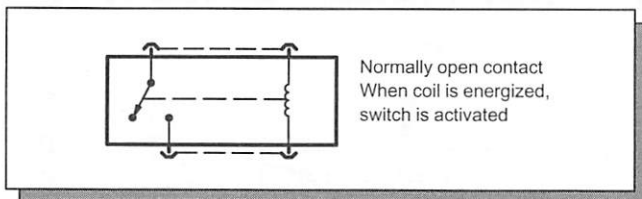
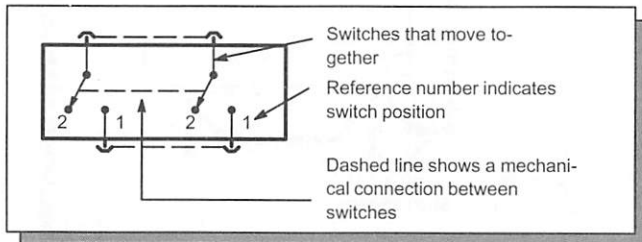
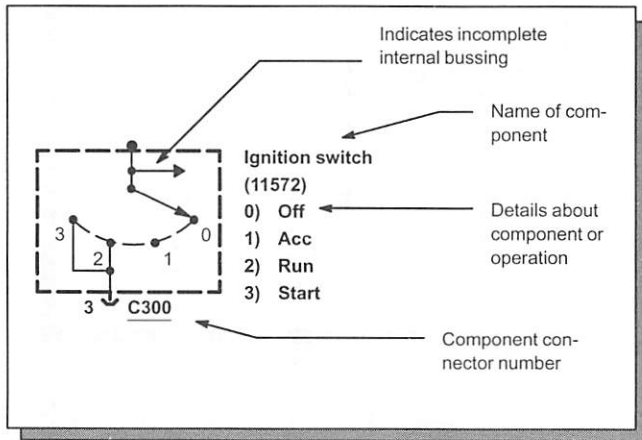
4-3 Symbols

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

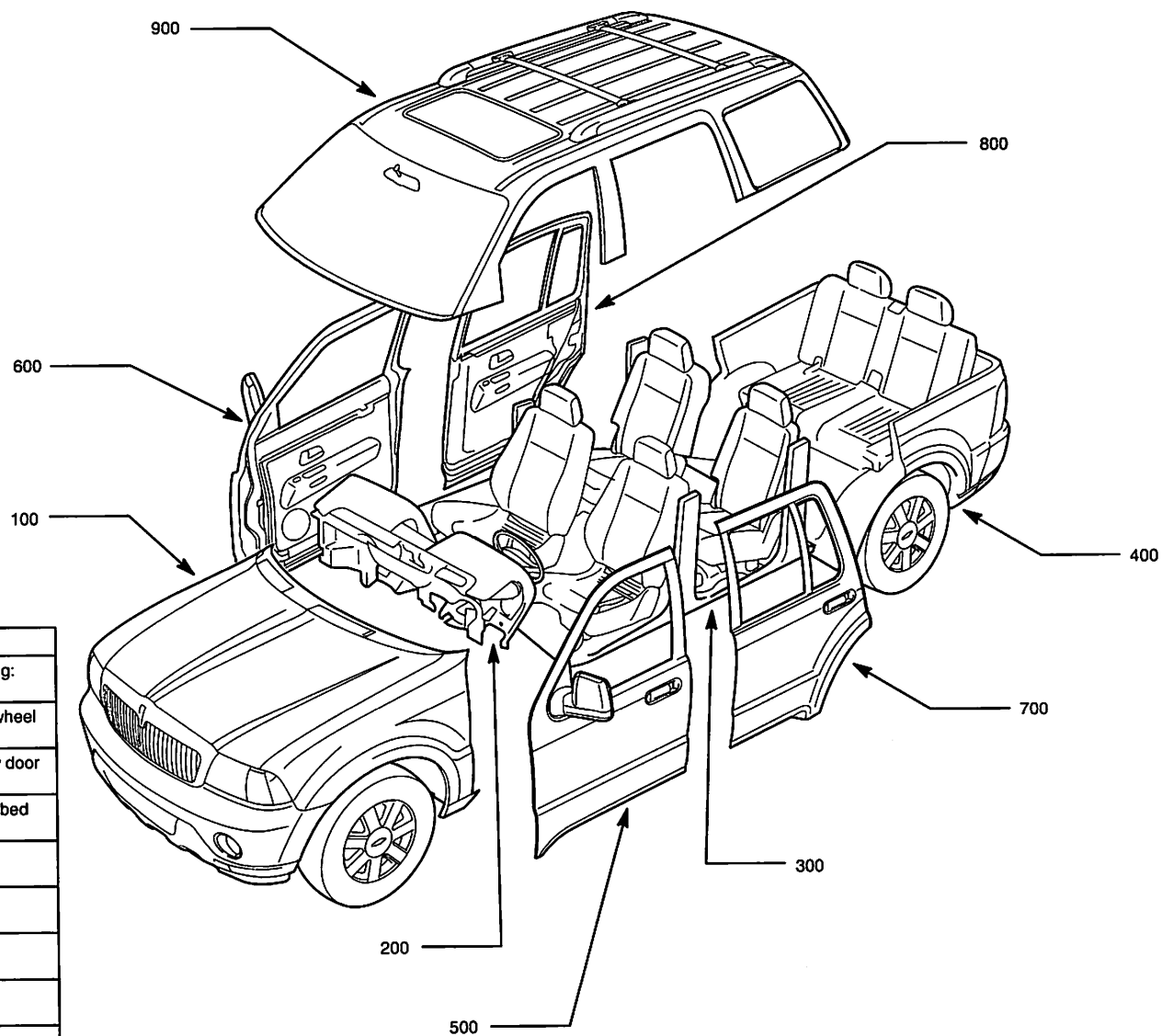






The first digit of every connector, ground, and splice number used in this publication references its location within the vehicle.

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

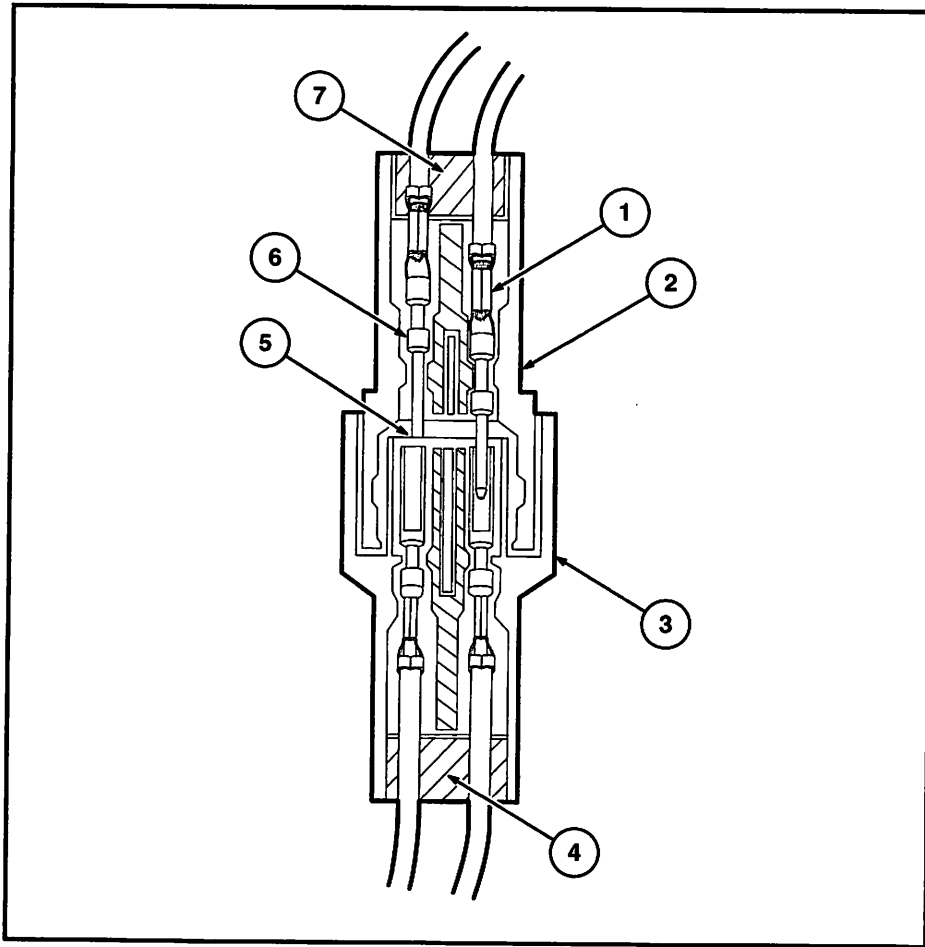


Number	Location
100	Engine compartment, Powertrain (including: axle/differential/transmission)
200	Instrument Panel and Console, Steering wheel assembly
300	From instrument panel to rear seat, below door trim panel
400	behind rear seats, to rear bumper; Truck bed
500	driver door
600	passenger door, front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

Troubleshooting wiring harness and connector hidden concerns

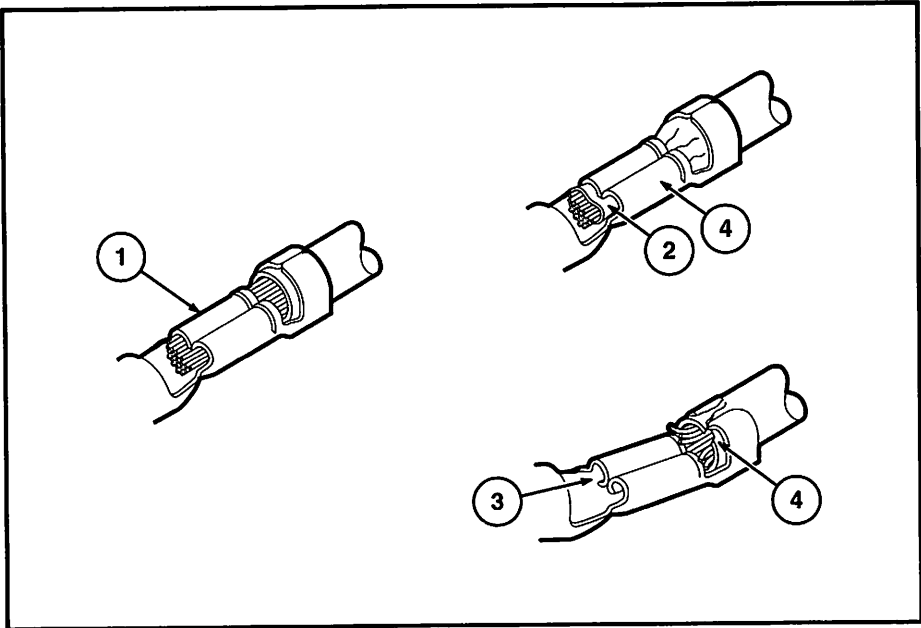
The following illustrations are known examples of wiring harness, splices and connectors that will create intermittent electrical concerns. The concerns are hidden and can only be discovered by a physical evaluation as shown in each illustration.

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**

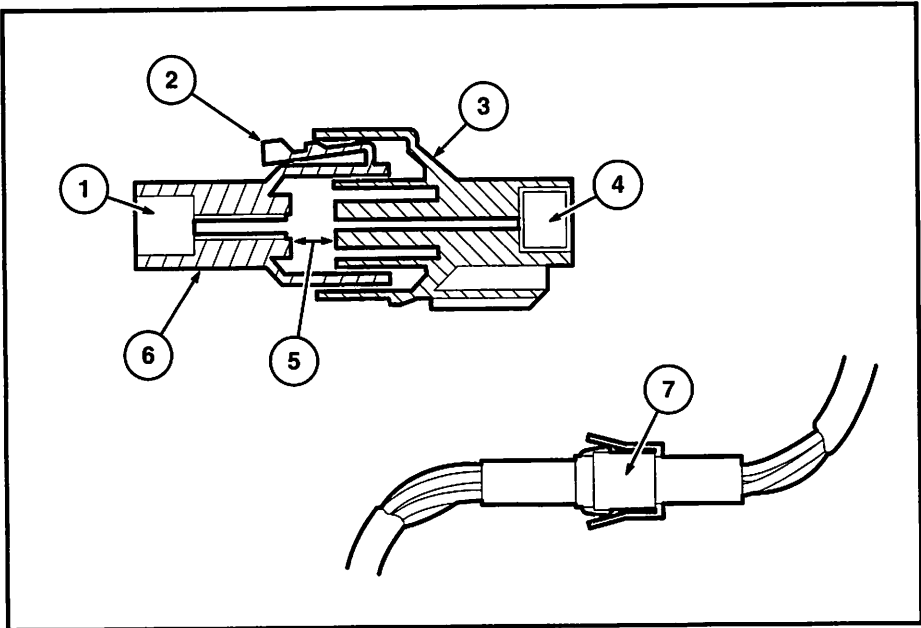
- 1 = Locked terminal
- 2 = Male half
- 3 = Female half
- 4 = Seal
- 5 = Intermittent contact
- 6 = Unlocked terminal (Hidden by wire seal)
- 7 = Seal

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



Defective insulation stripping

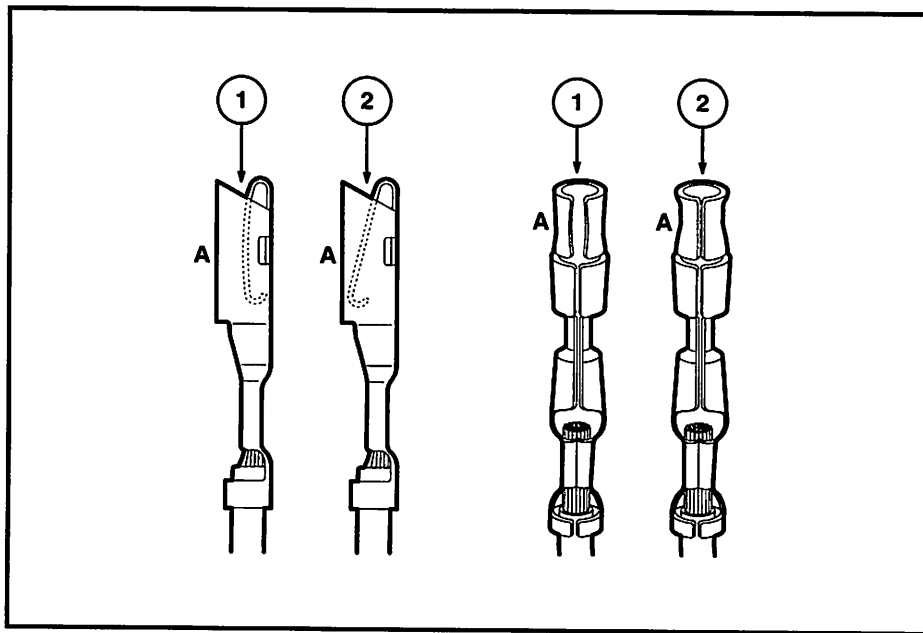
- 1 = Proper crimp
- 2 = Insulation not removed
- 3 = Wire strands missing
- 4 = Intermittent signals through pierced insulation



Partially mated connectors

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

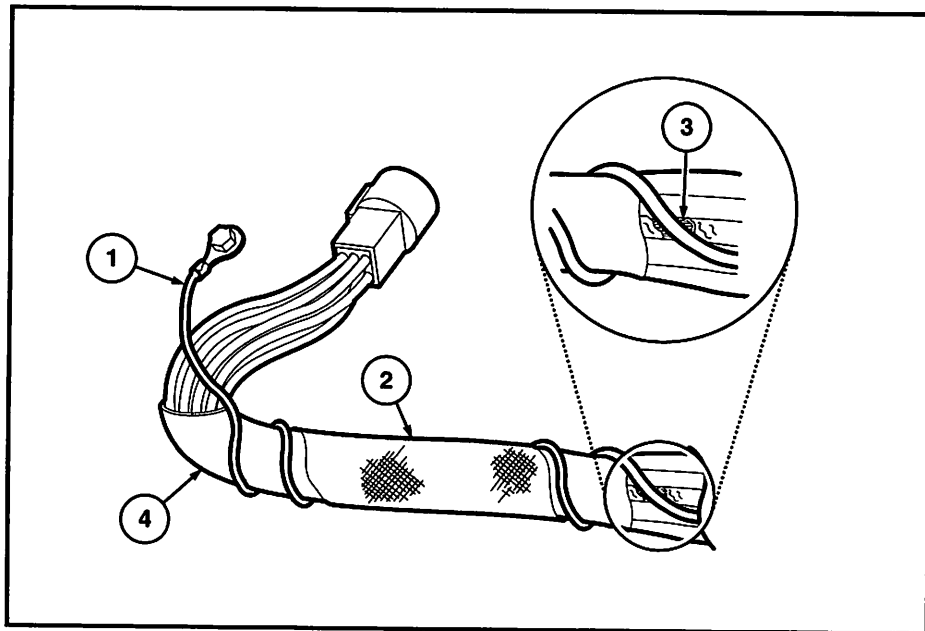
Lock may be displaced into an unlocked position; pull on the connector to verify the lock.



Deformed (enlarged) female terminals

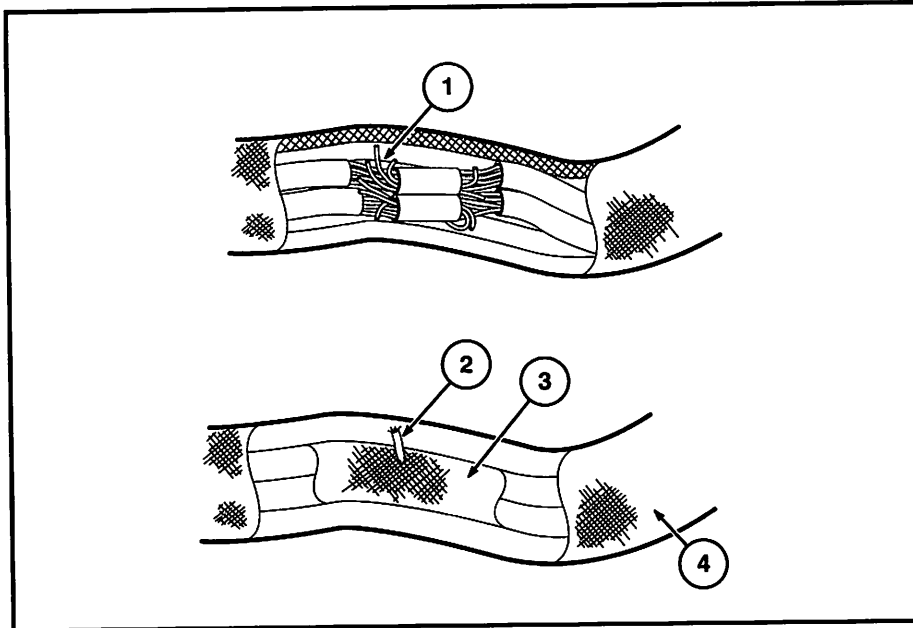
- 1 = Enlarged
- 2 = Normal

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



Electrical short within the harness

Splice tape removed

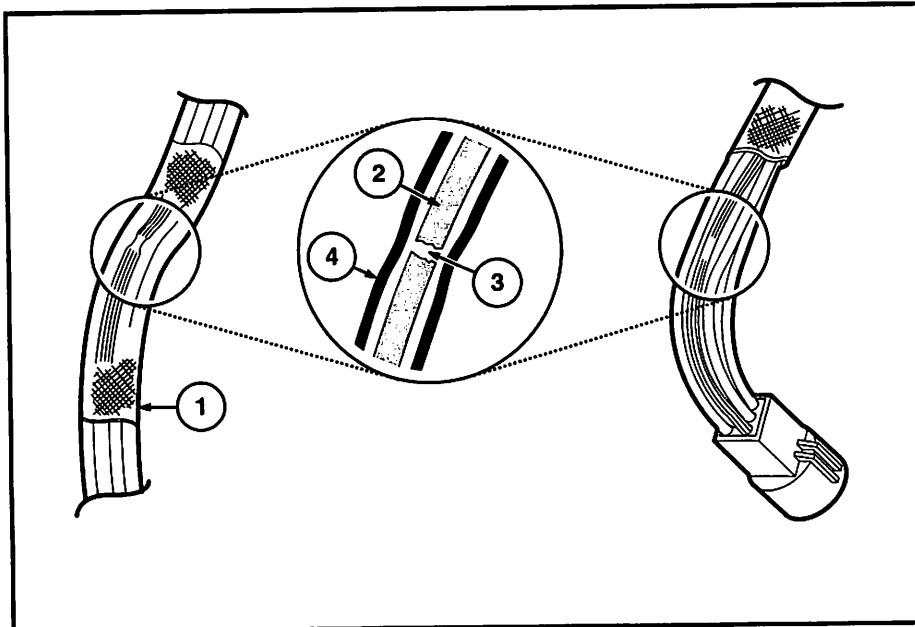
1 = Intermittent short

Splice covered

2 = Wire strand

3 = Splice tape

4 = Harness tape



Broken wire strands in harness

1 = Wiring harness tape

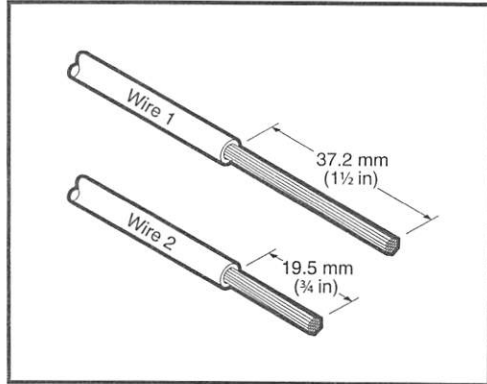
2 = Wiring strand

3 = Broken strands intermittent signal

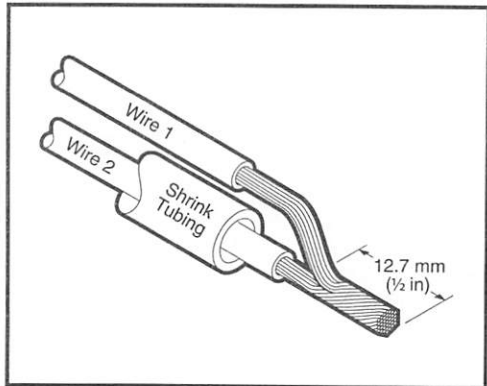
4 = Circuit insulation

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

Recommended splicing method

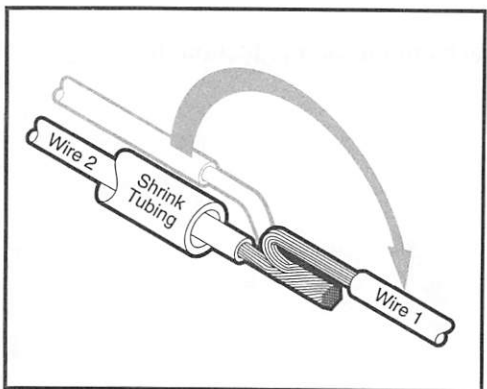


1. Disconnect battery ground cable.
2. Strip wires to appropriate length.



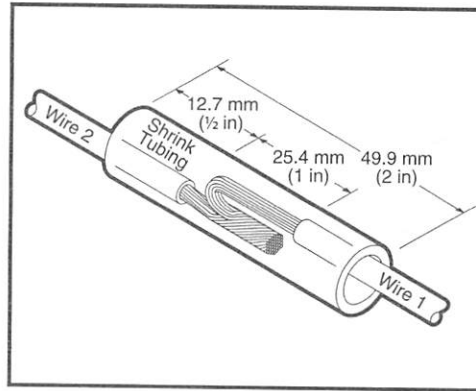
3. Install heat shrink tubing.
4. Twist wires together.
5. Solder wires together.

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



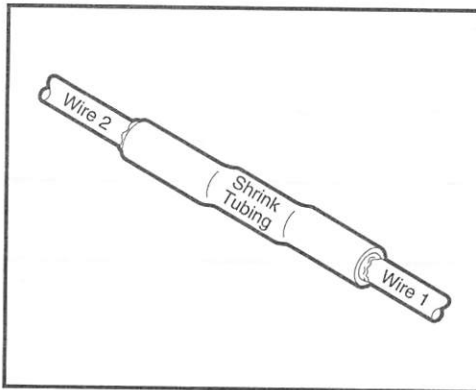
6. Bend Wire 1 back in a straight line.

NOTE: Wait for solder to cool before moving wires.



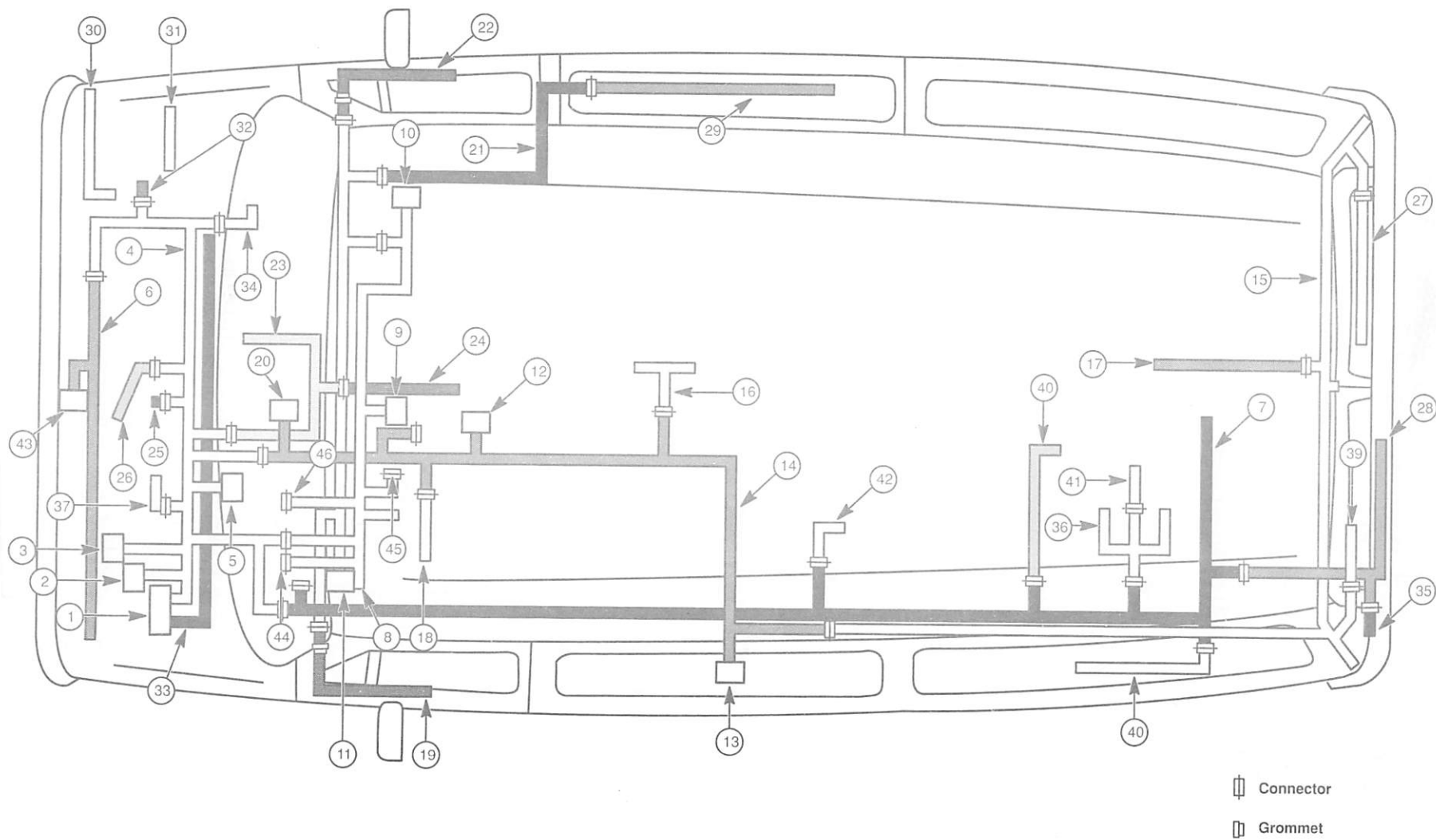
7. Evenly position heat shrink tubing over wire repair.

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.

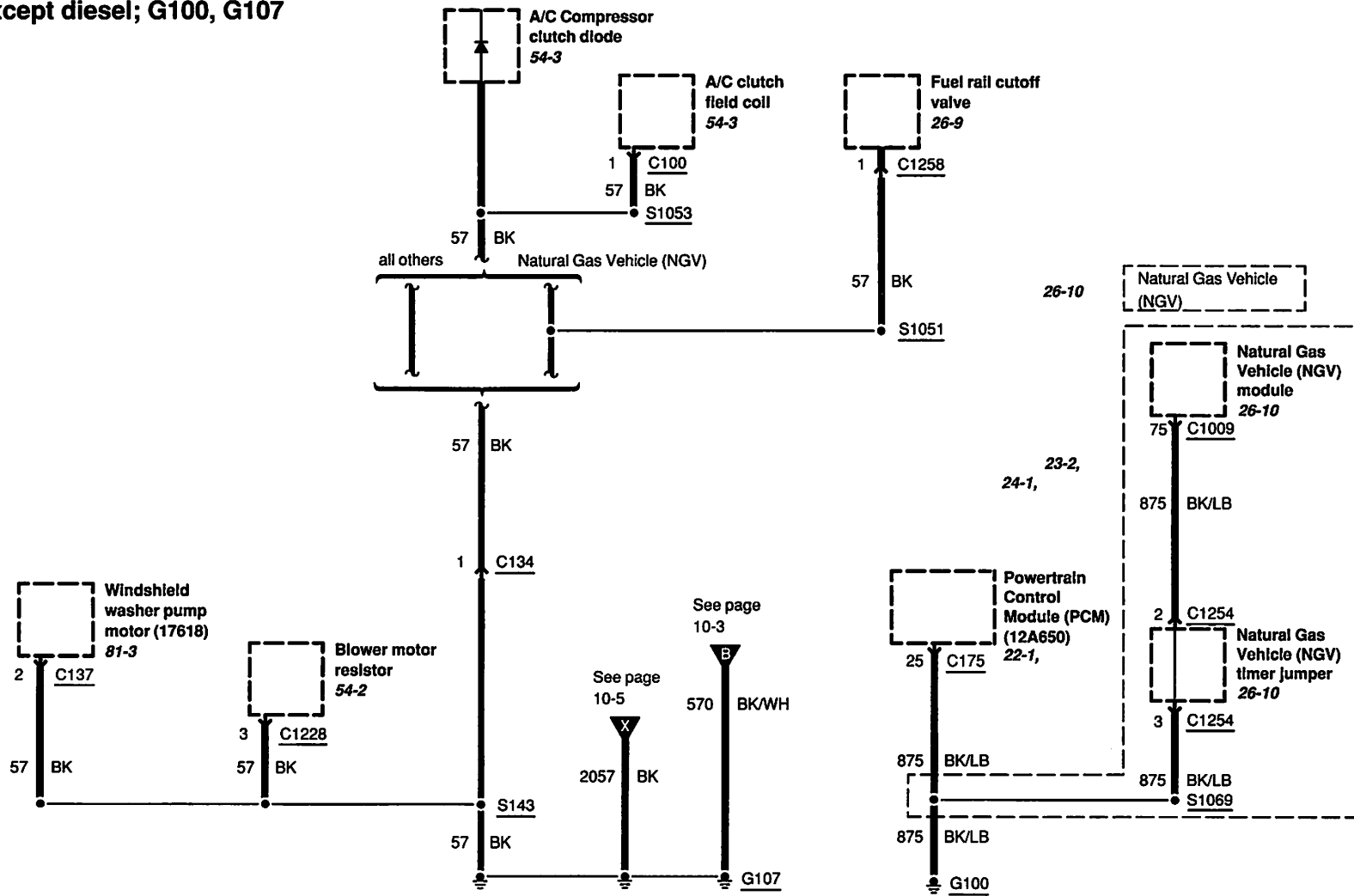
Notes



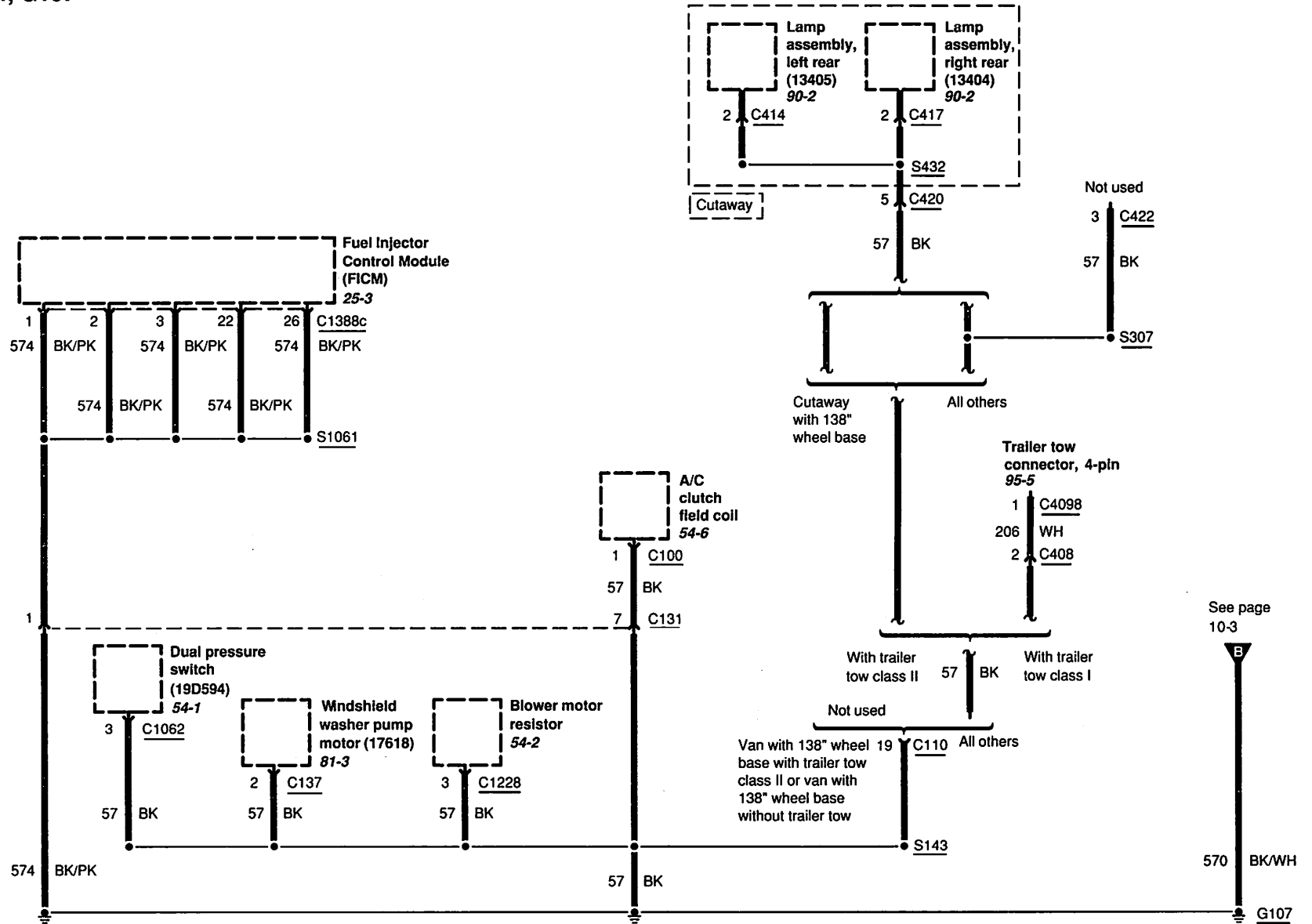
Item	Part Number	Description
1	-	Battery Junction Box (BJB) (14A003)
2	-	ABS control module (2C219)
3	-	Injector Driver Module (IDM)
4	12A581	Wiring harness - Engine control sensor
5	-	Powertrain Control Module (PCM) (12A650)
6	14290	Wiring harness - Dash panel to headlamp junction
	13A006	Wiring harness - Headlamps (Stripped chassis)
7	14406	Wiring harness - Fuel tank sender
8	14401	Wiring harness - Main
9	-	Wiper Control Module (WCM)
10	-	Electronic Crash Sensor (ECS) module
11	-	Central Junction Box (CJB) (14A068)
12	-	Rear Seat Entertainment (RSE) module
13	-	Remote keyless entry module (15K602)
14	14A200	Wiring harness - Window regulator relay switch
15	14405	Wiring harness - Tail lamps
16	14335	Wiring harness - Interior illumination
17	14334	Wiring harness - Interior lamps
	13A710	Wiring harness - Rear interior lamp (without rear control)
18	14A699	Wiring harness - Power seats (with power driver seat)
	14C719	Wiring harness - Seat control feed jumper
19	14631	Wiring harness - Window regulator, left front door
20	-	Auxiliary Powertrain Control Module (APCM)
21	14014	Wiring harness - Door lock feed
22	14630	Wiring harness - Window regulator, right front door
23	12B637	Wiring harness - Engine control sensor and fuel charge

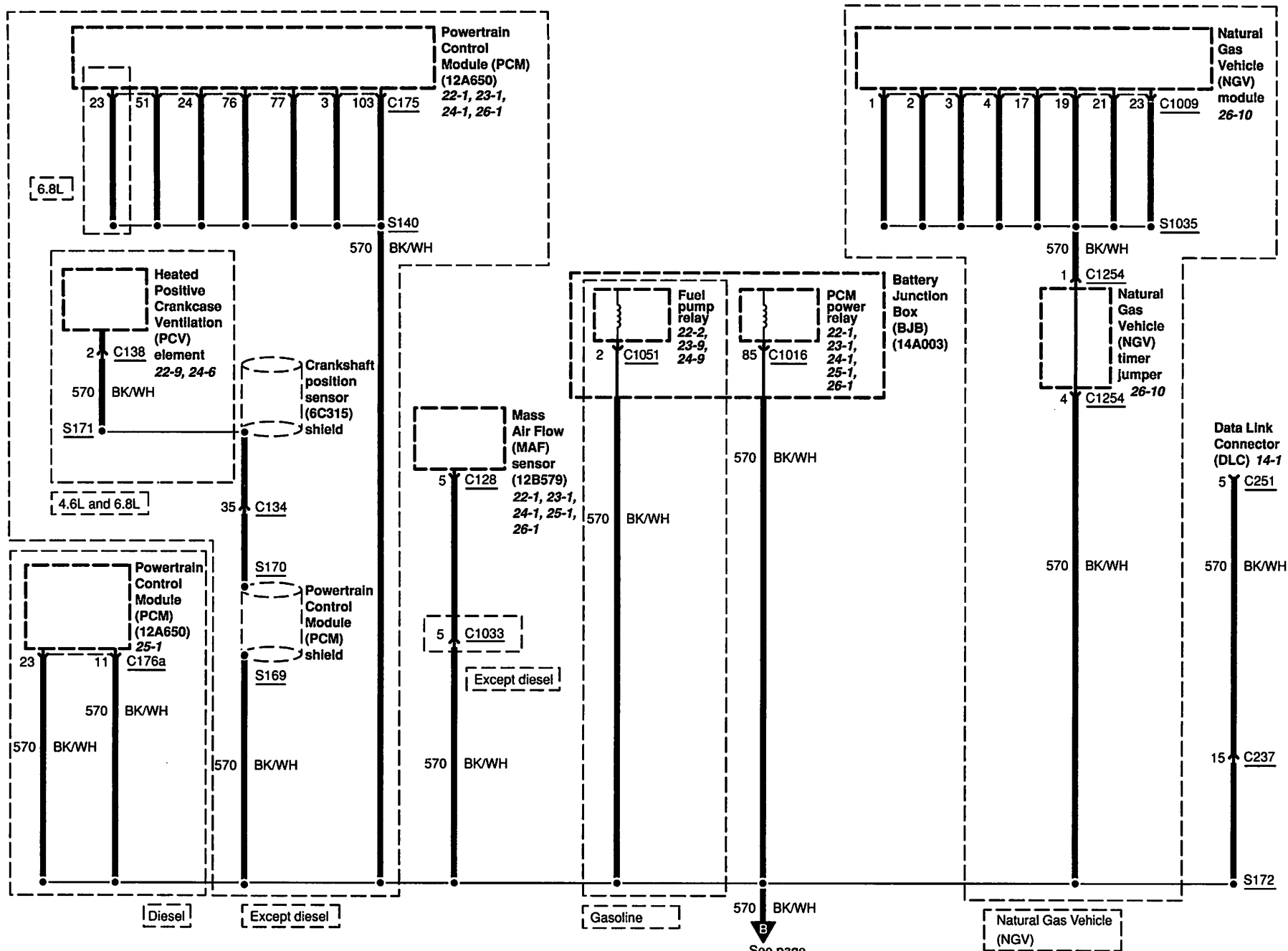
Item	Part Number	Description
24	7C078	Wiring harness - Transmission control selector neutral switch
25	10K699	Wiring harness - Auxiliary battery feed
26	12A690	Wiring harness - Engine control sensor extension
27	13412	Wiring harness - Rear license plate lamp
28	13A576	Wiring harness - Trailer lamp feed
29	14026	Wiring harness - Right rear door lock
30	14301	Wiring harness - Junction block to engine ground
31	14B060	Wiring harness - Starter relay/battery
32	14305	Wiring harness - Alternator rectifier system
33	14439	Wiring harness - Starter relay to fuse junction panel
34	14A346	Wiring harness - Trailer battery feed
35	14A348	Wiring harness - Trailer brake control switch
36	14A655	Wiring harness - Fuel tank sender extension
37	14B102	Wiring harness - Temperature sensor
38	19949	Wiring harness - A/C blower motor
39	19A178	Wiring harness - Radio speaker extension, left
40	2B392	Wiring harness - Brake control speed sensor
41	9A340	Wiring harness - Fuel pump
42	9K499	Wiring harness - Exhaust emission control
43	-	Daytime Running Lamps (DRL) module
44	13A718	Wiring harness - Interior lamp feed jumper (Stripped chassis)
45	14370	Wiring harness - Connector (Stripped chassis)
46	17B587	Wiring assembly - windshield wiper switch to windshield wiper motor (Stripped chassis)

Except stripped chassis,
 Except diesel; G100, G107

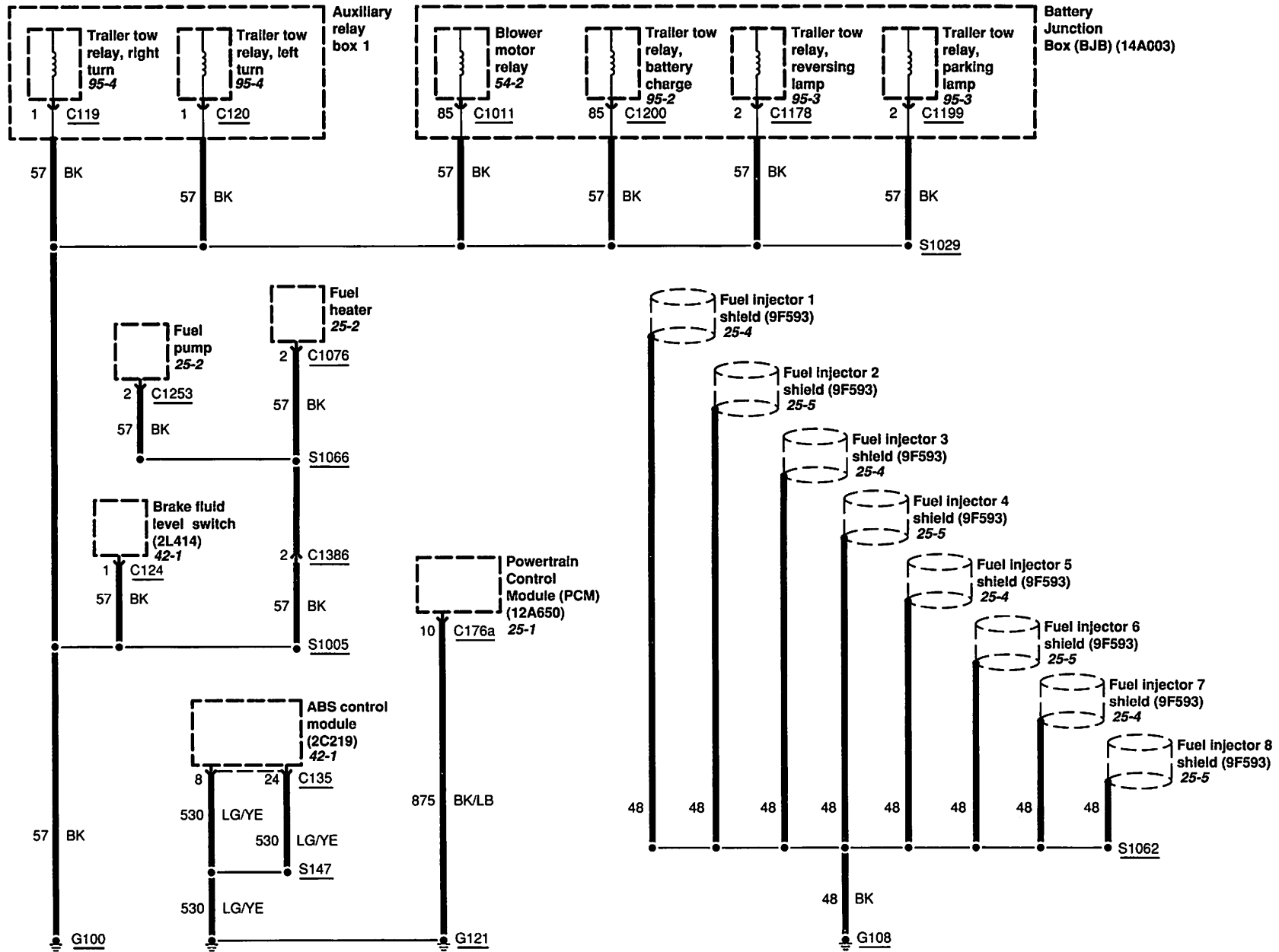


Diesel; G107

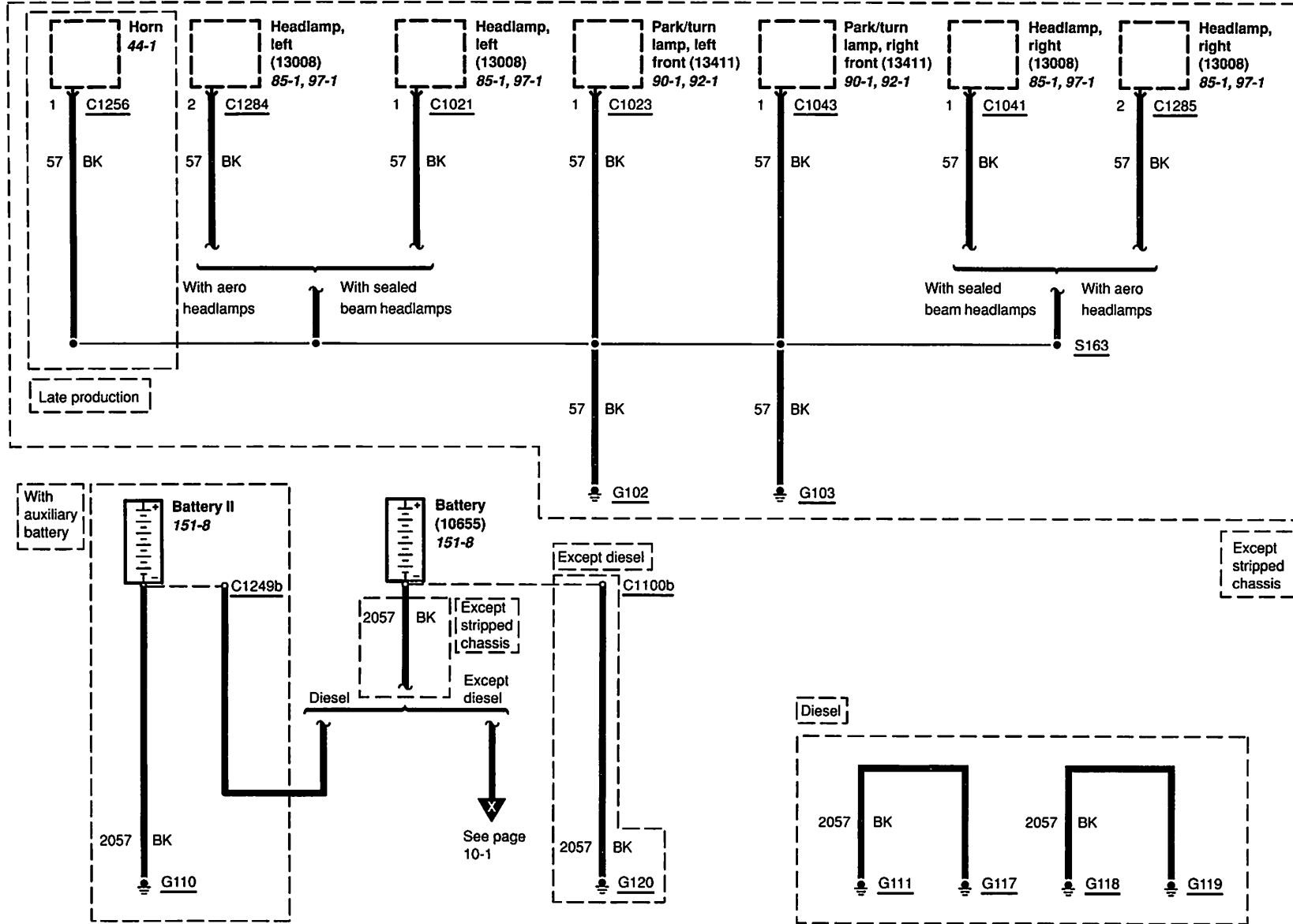




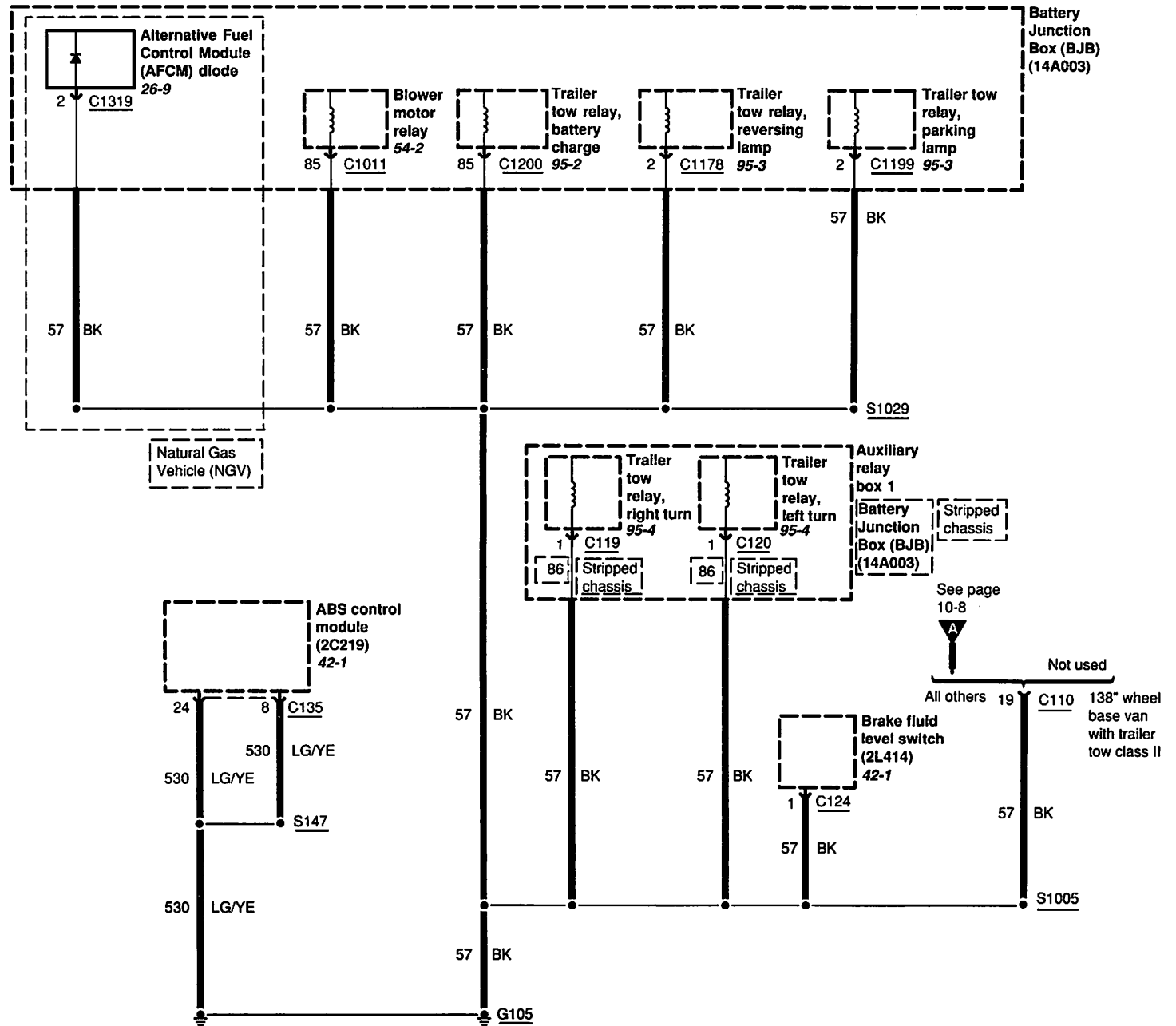
Diesel; G100, G108, G121



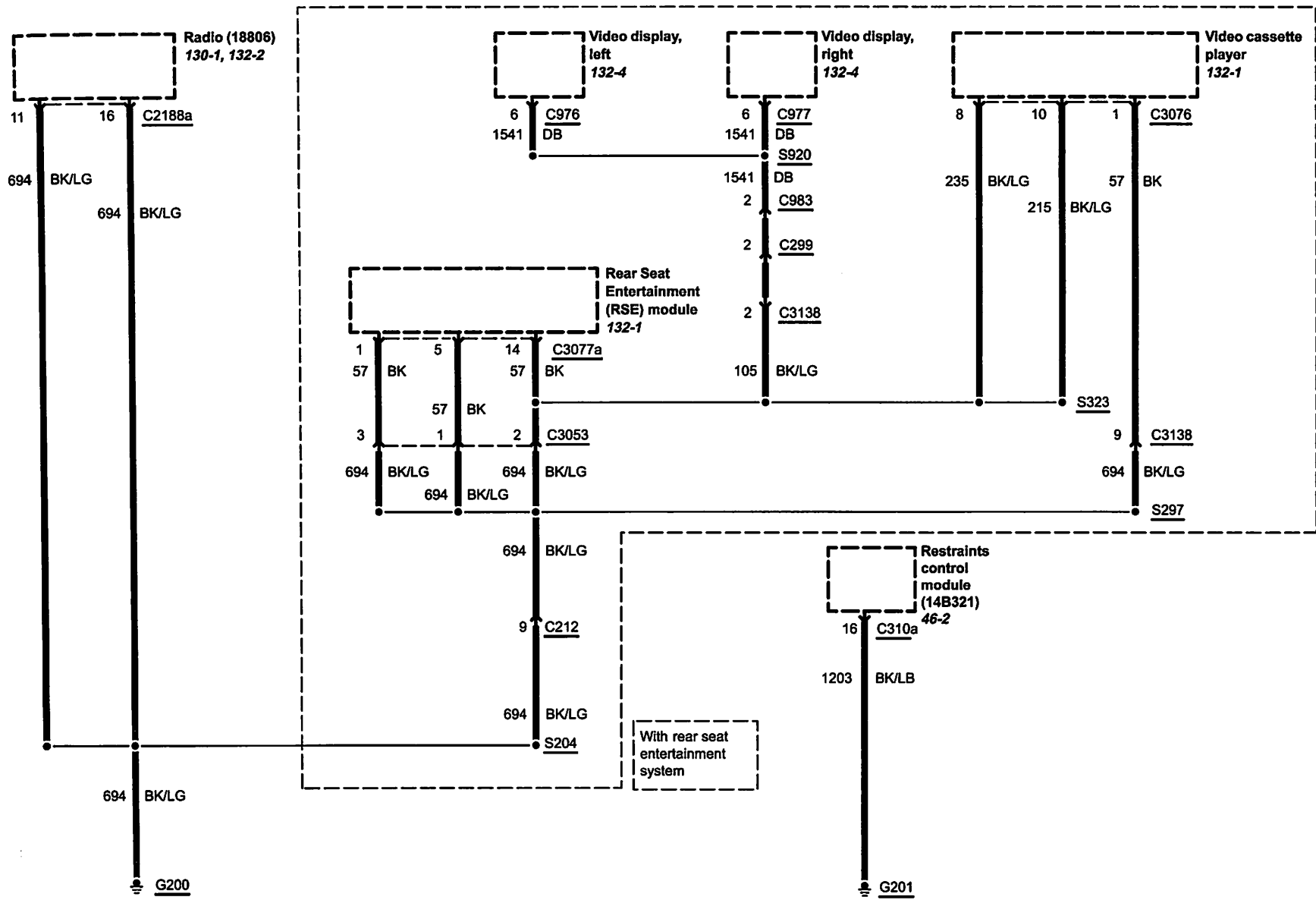
G102, G103, G110, G111, G117, G118, G119, G120

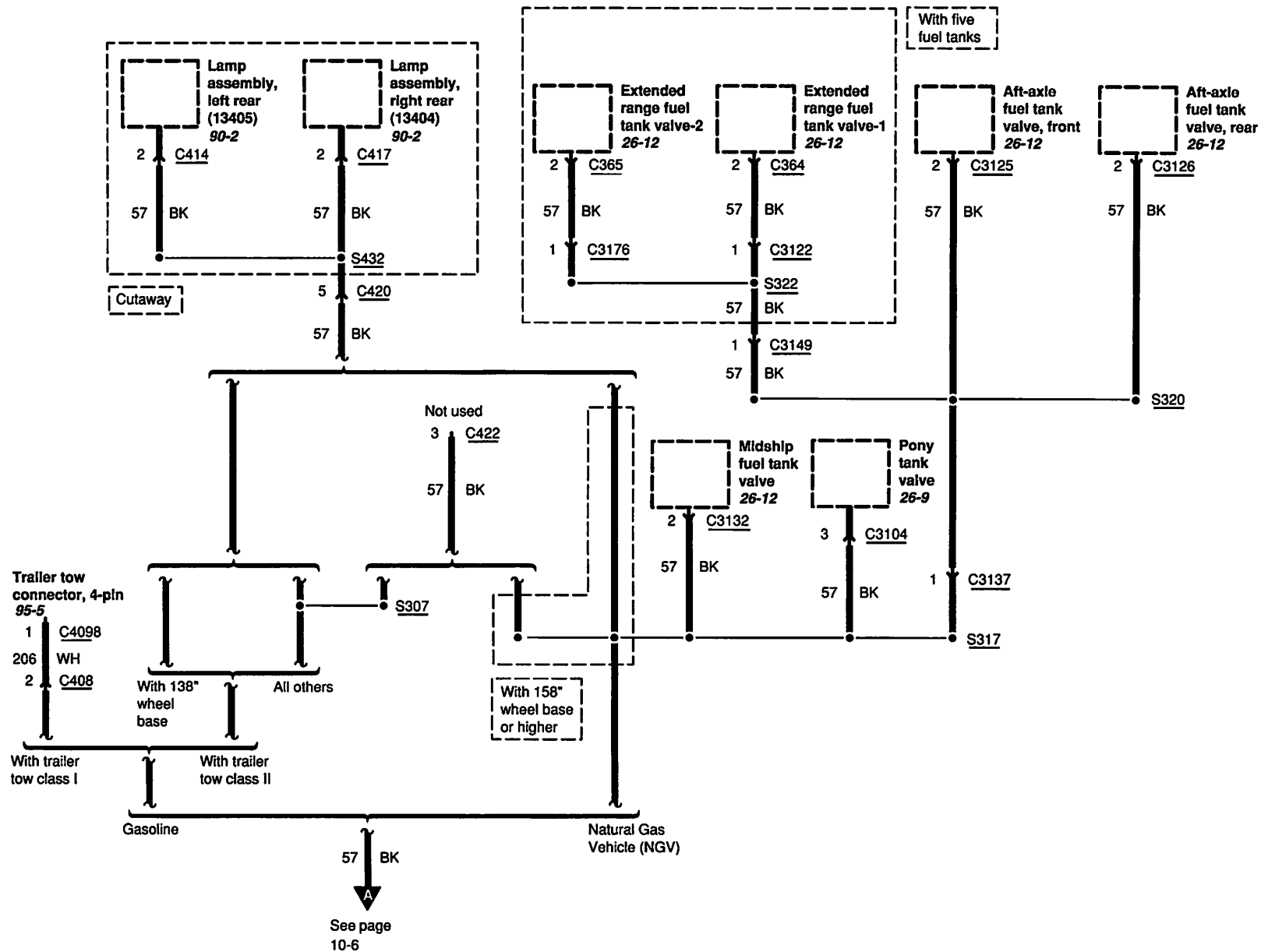


Except diesel, except stripped chassis; G105

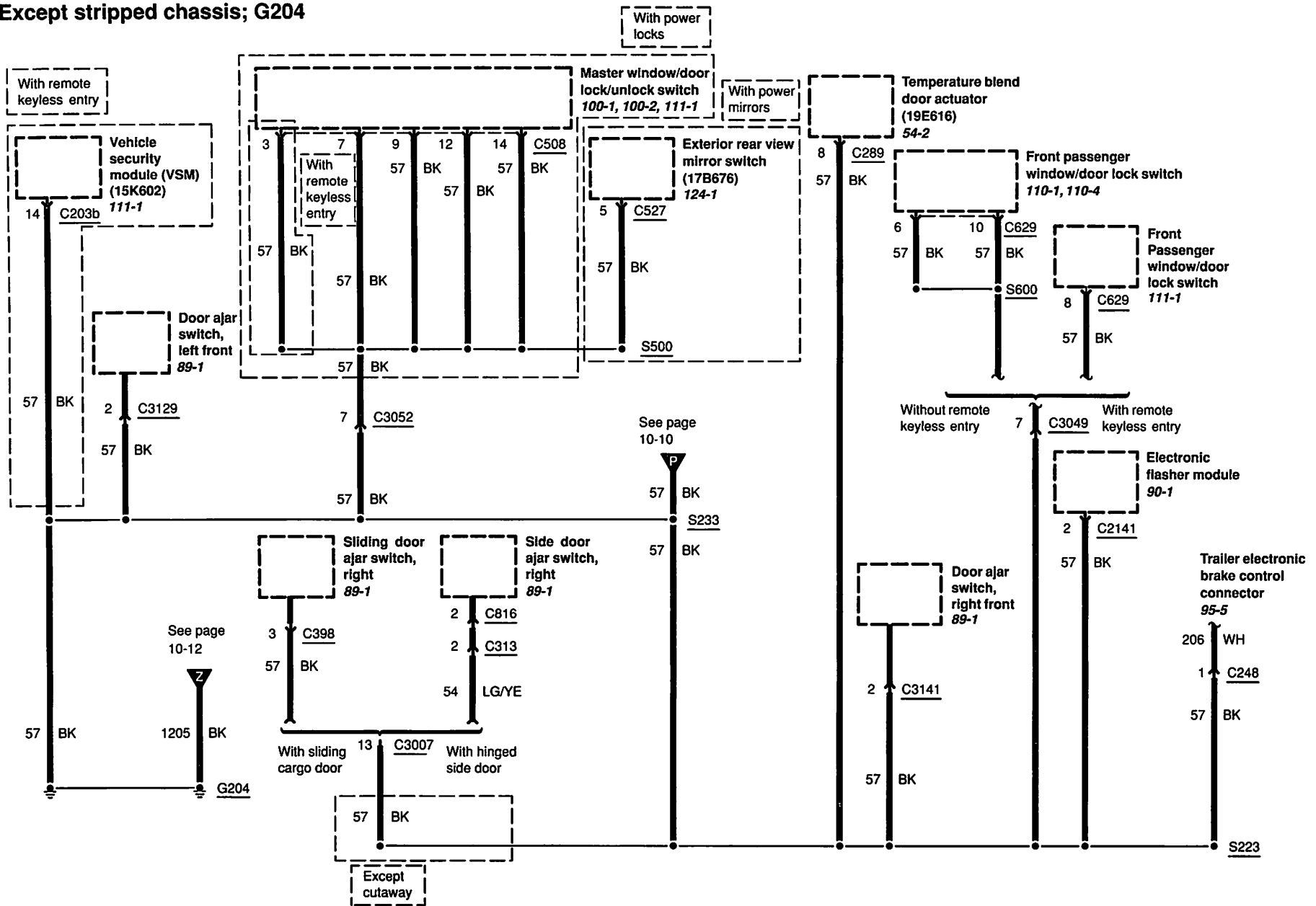


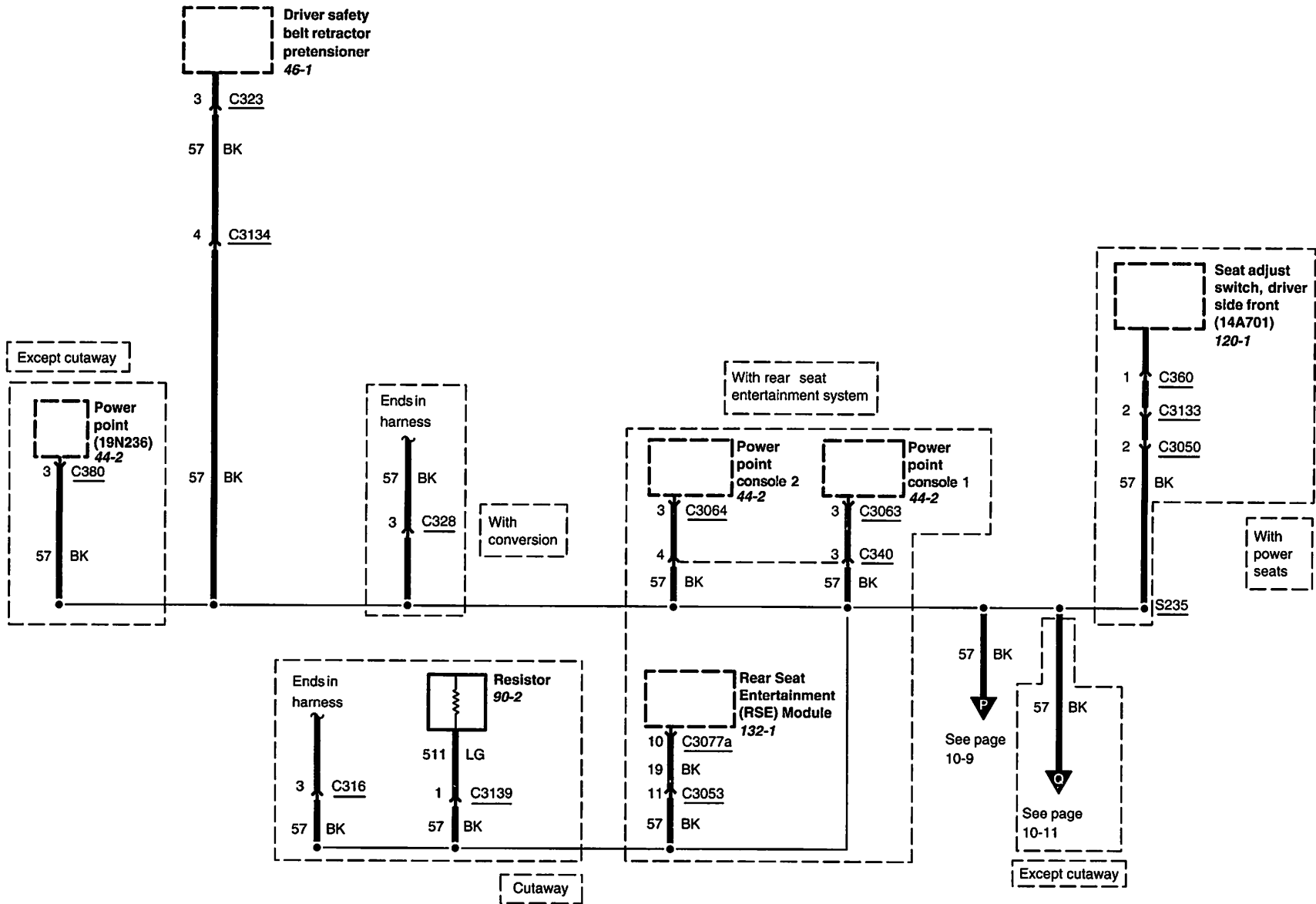
Except stripped chassis; G200, G201



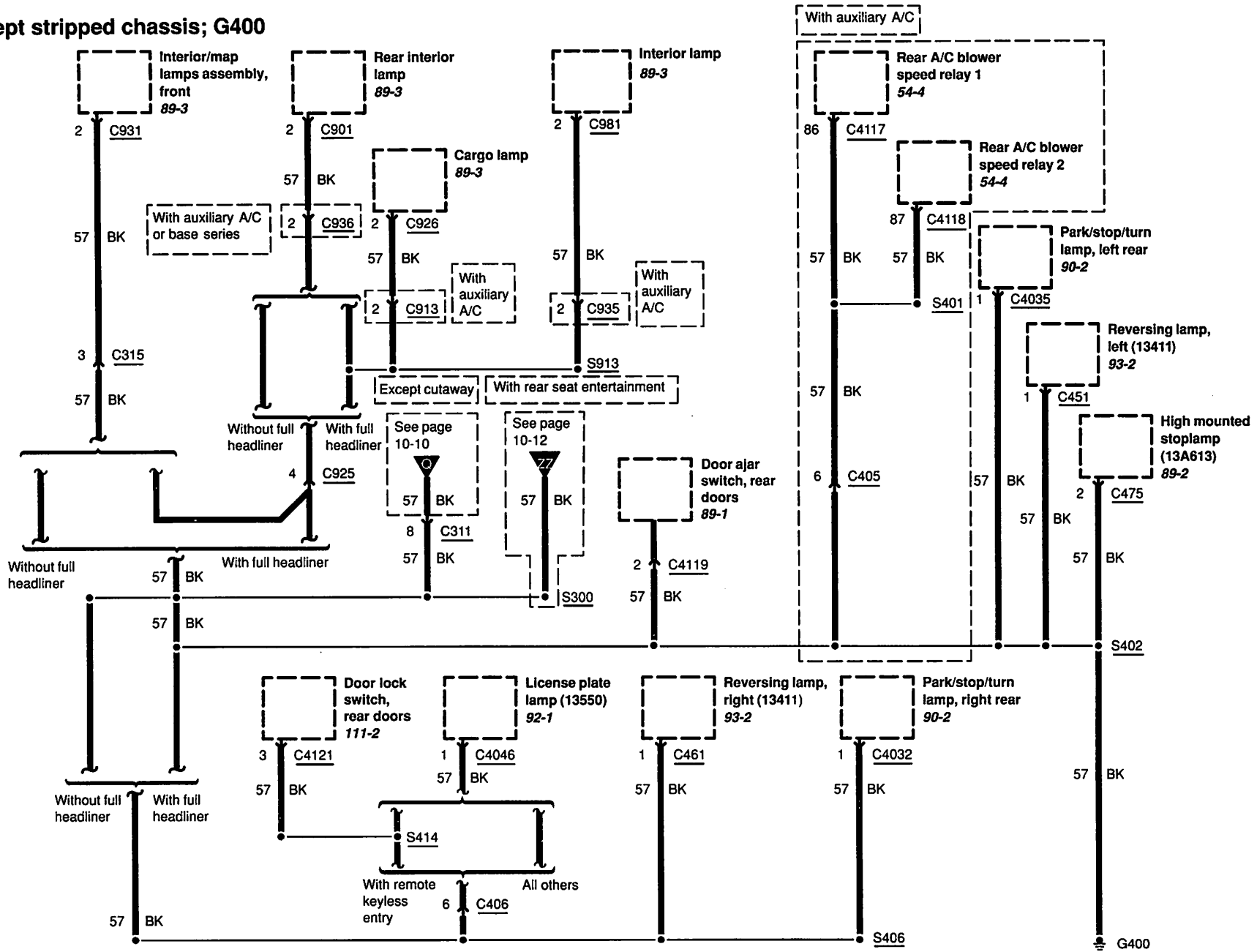


Except stripped chassis; G204

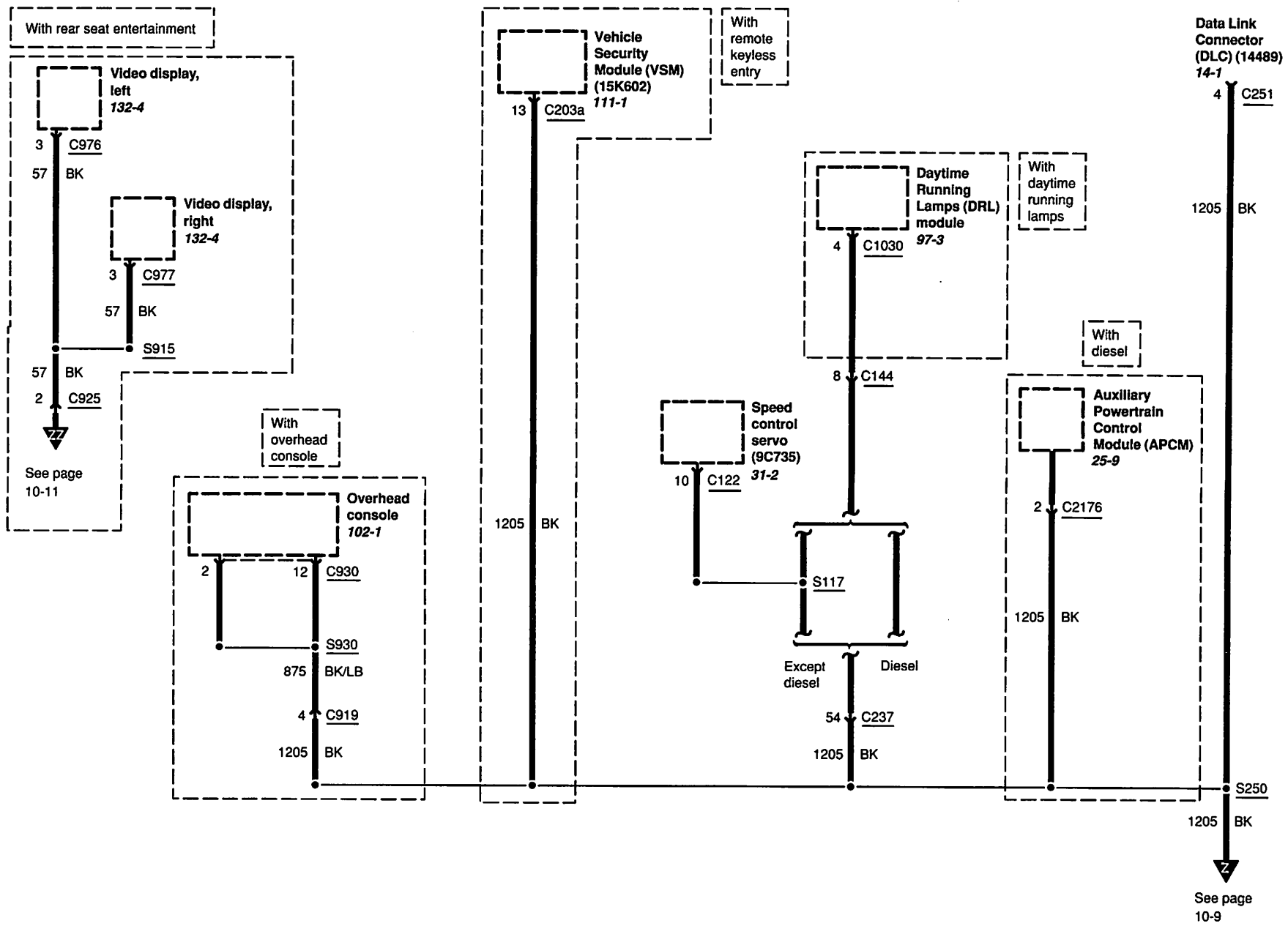




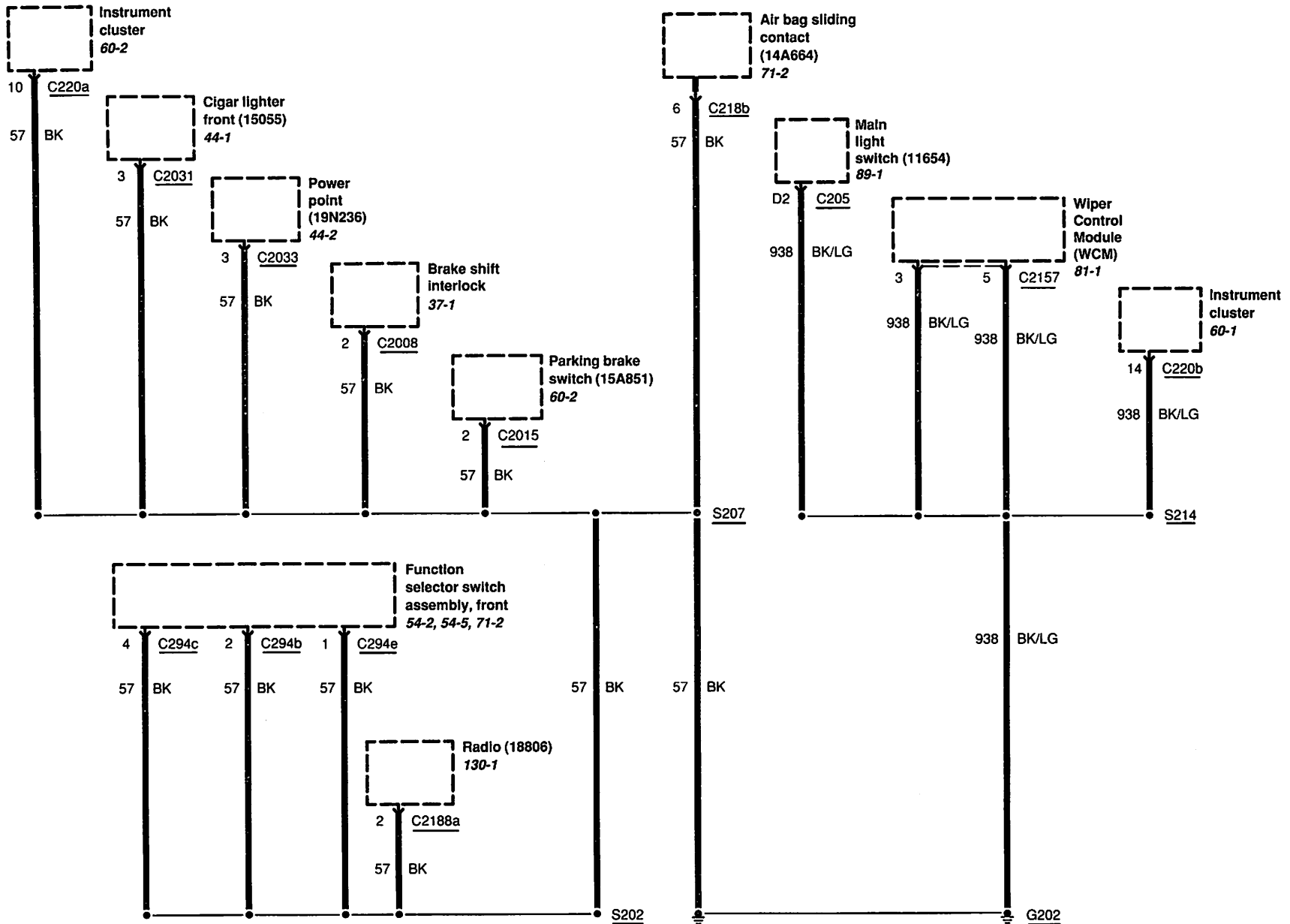
Except stripped chassis; G400



Except stripped chassis

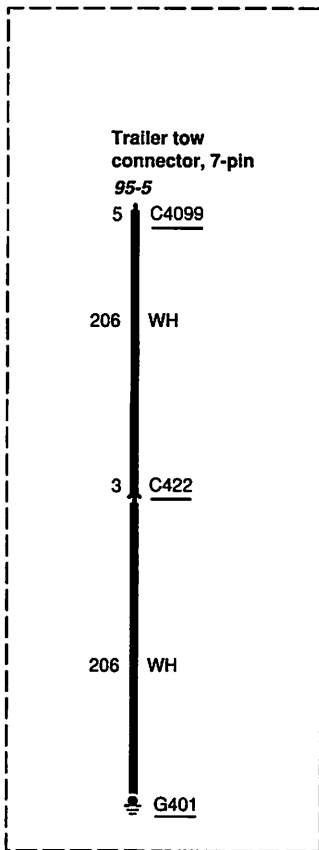


Except stripped chassis; G202

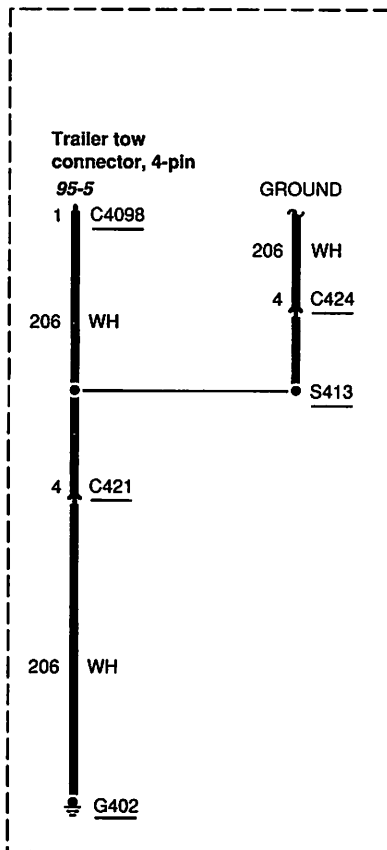


G302, G401, G402

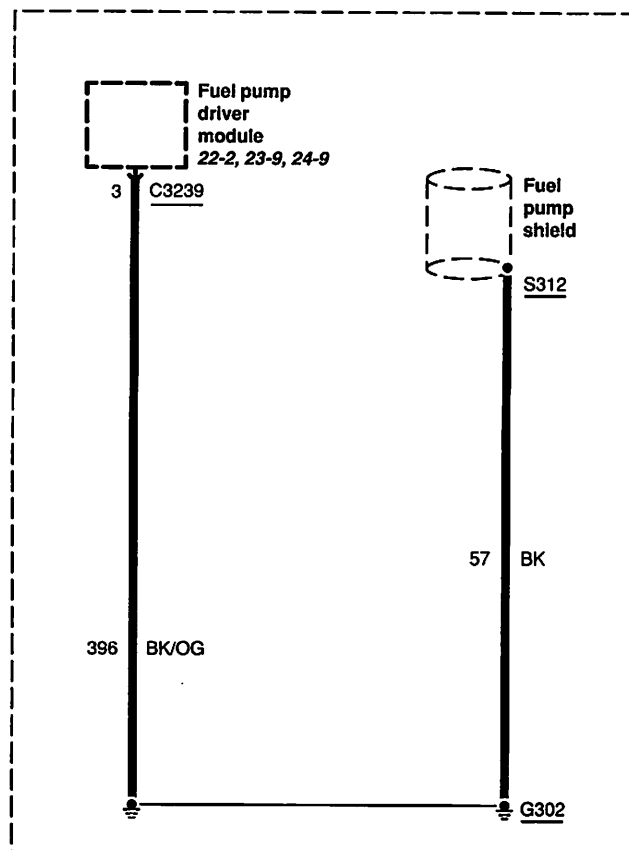
Van with 138" wheel base and trailer tow class II



Cutaway and stripped chassis

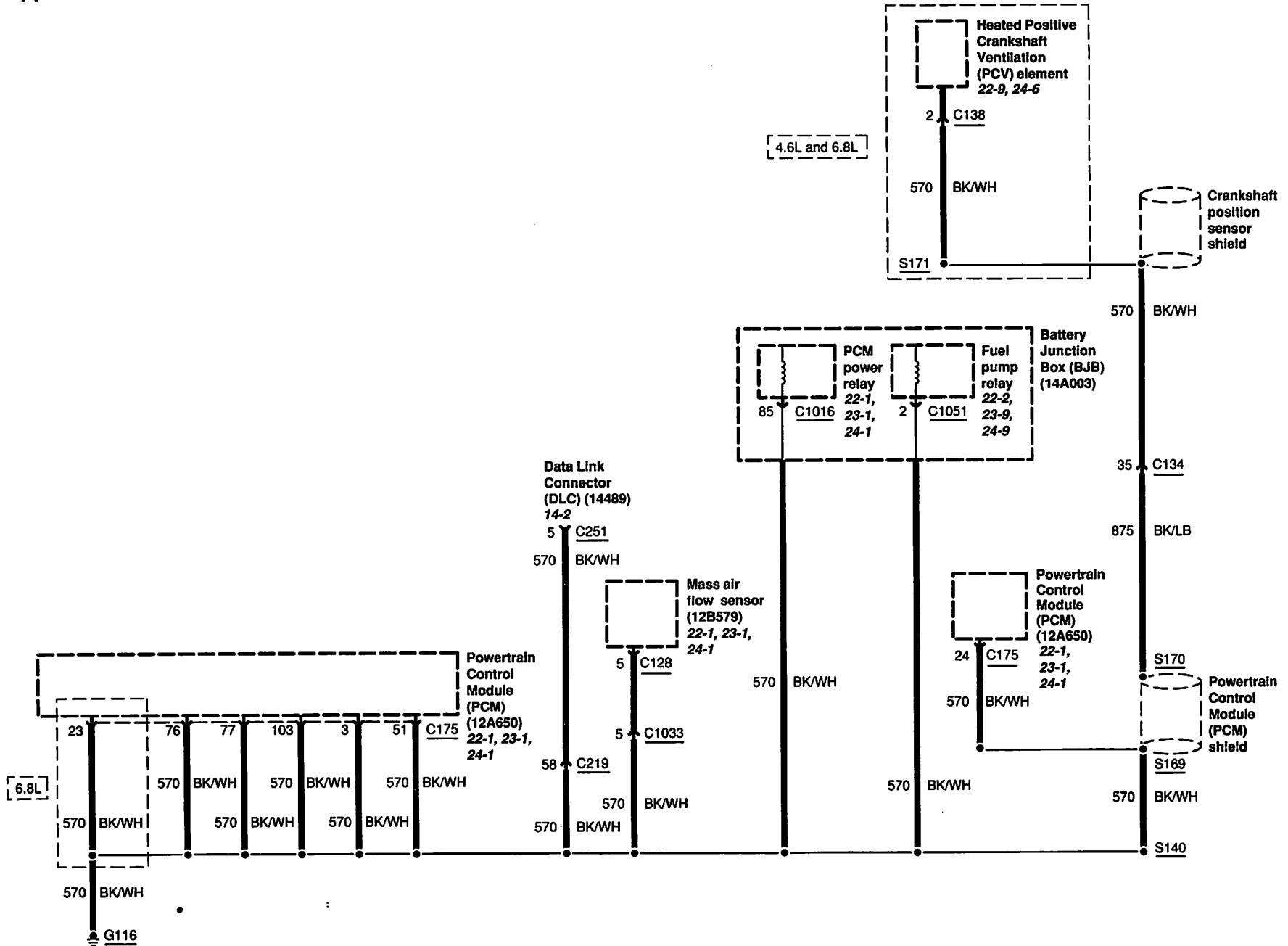


Gasoline engines

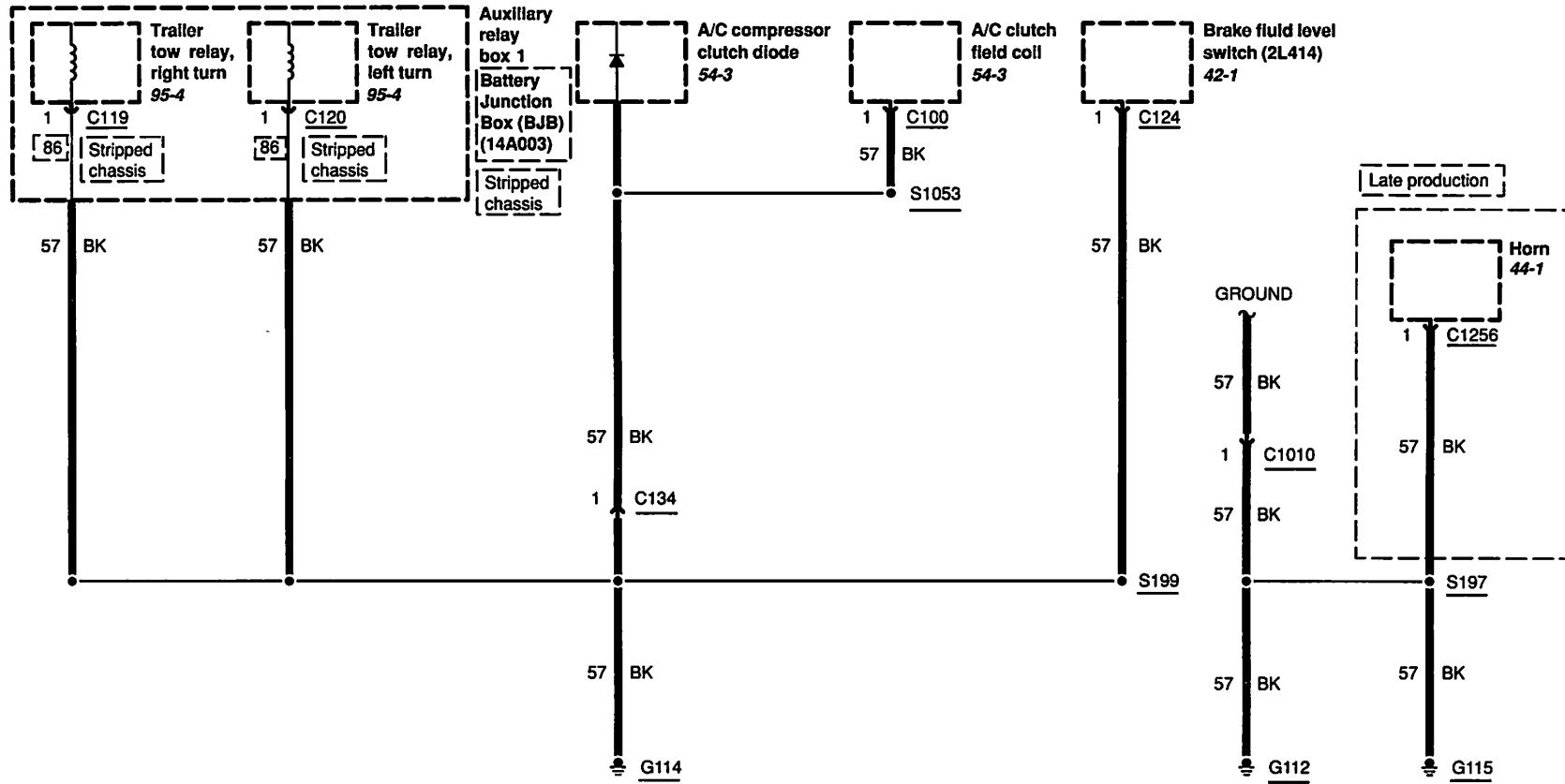


10-15 Grounds

Stripped chassis; G116

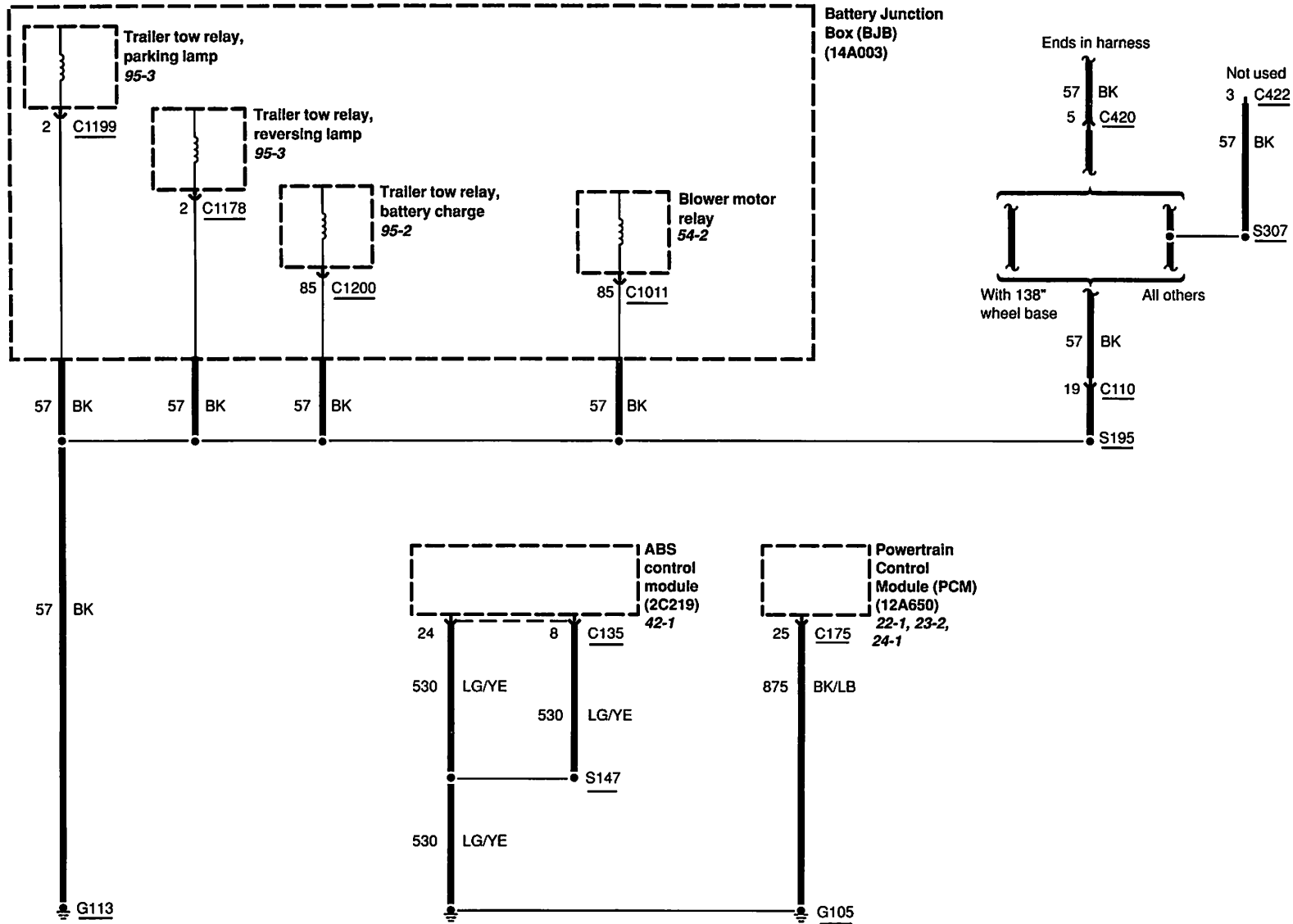


Stripped chassis; G112, G114, G115

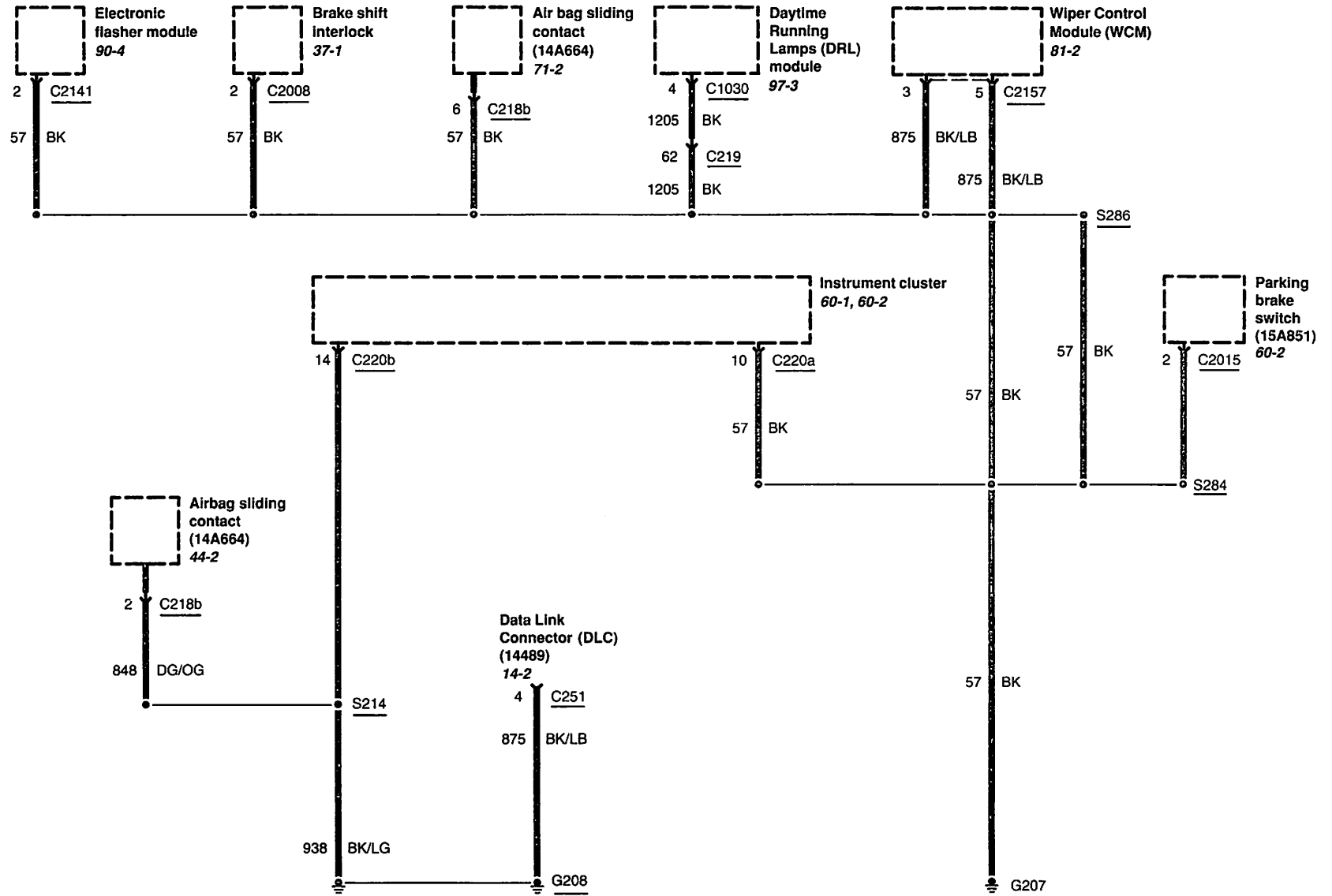


10-17 Grounds

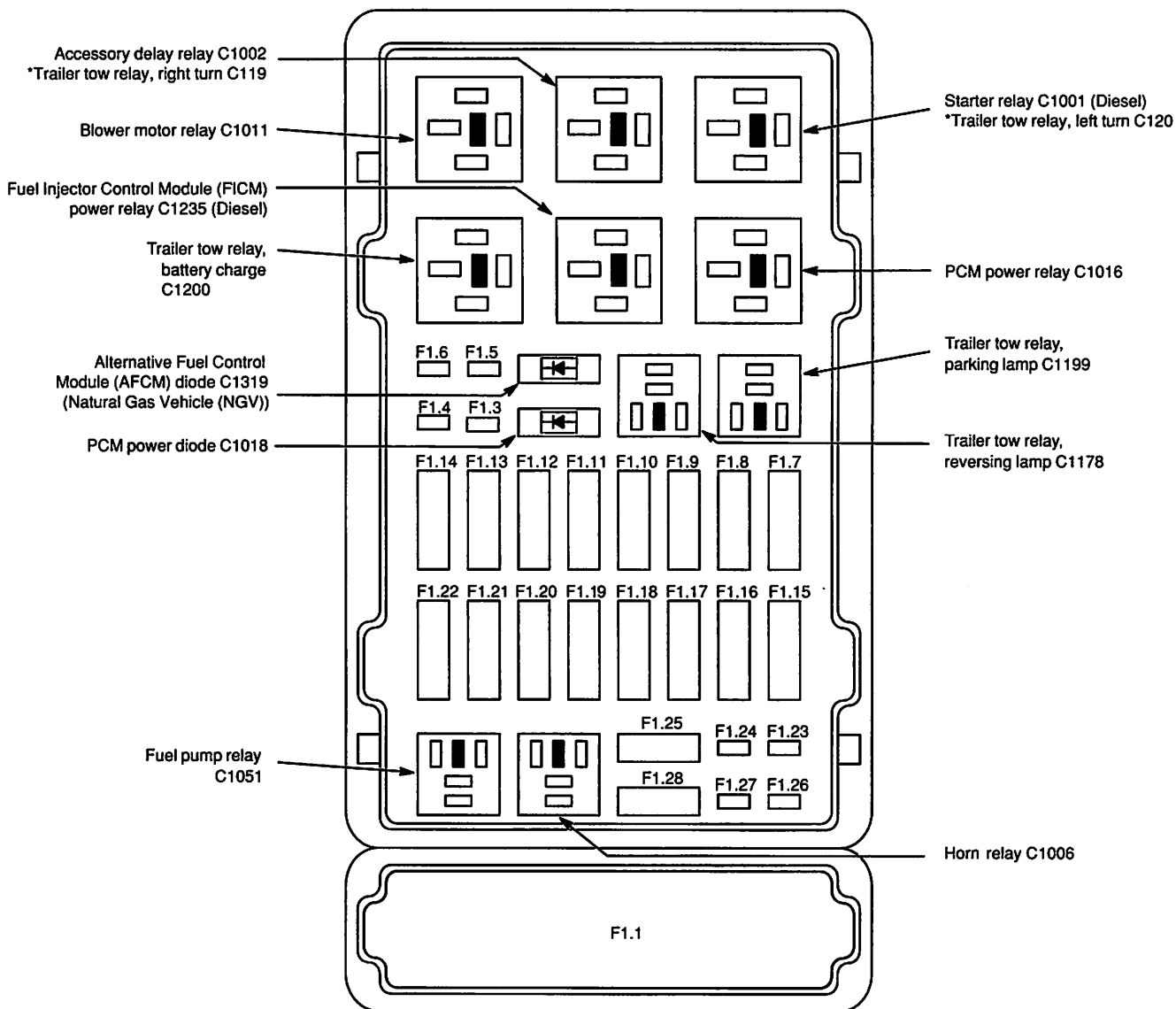
Stripped chassis; G105, G113



Stripped chassis; G207, G208



Battery Junction Box (BJB) (14A003)



*Stripped chassis

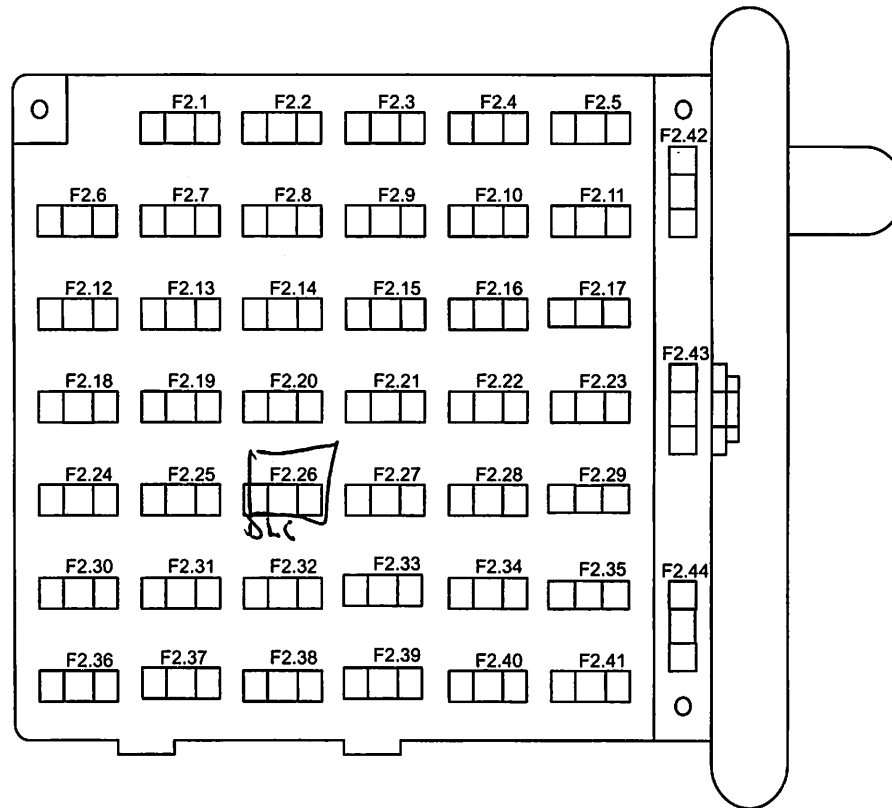
Battery Junction Box (BJB) (14A003)

Fuse	Amps	Circuits protected
F1.1	–	–
F1.3	10	A/C clutch relay (Diesel), Daytime Running Lamps (DRL) module (with daytime running lamps)
F1.4	20	Powertrain Control Module (PCM) (Natural Gas Vehicle (NGV)), Inertia Fuel Shutoff (IFS) switch (9D362) (Natural Gas Vehicle (NGV))
F1.5	15	Horn relay
F1.6	2	Brake pressure switch (13411)
F1.7	60	Ignition switch (11572), accessory delay relay (except stripped chassis)
F1.8	40	Trailer tow relay, battery charge
F1.9	50	Modified vehicle power
F1.10	30	Trailer electronic brake control connector (Except stripped chassis)
F1.11	60	ABS control module (2C219)
F1.12	60	F2.29 (with rear seat entertainment), F2.34, F2.38 (cutaway), F2.40 (except stripped chassis), F2.41 (with modified vehicle)
F1.13	20/30**	Fuel pump relay
F1.14	50	Rear A/C blower speed relay 1 (with auxiliary A/C)
F1.15	30/40**	Main light switch (11654)
F1.16	–	not used
F1.17	50	Blower motor relay
F1.18	60	F1.3, F1.5, F1.23, F1.26, F2.26, F2.32 (except stripped chassis), Starter relay (diesel)
F1.19	50	Fuel Injector Control Module (FICM) power relay (Diesel)
F1.20	60	F1.8, F1.16, F1.24, Auxiliary battery relay (with auxiliary battery)
F1.21	30	F1.27, PCM power relay
F1.22	60	F2.4 (stripped chassis), F2.5 (with power locks, without remote keyless entry), F2.10 (stripped chassis), F2.11, F2.17 (except stripped chassis), F2.22 (stripped chassis), F2.23 (with remote keyless entry)
F1.23	10	Generator; Generator, Secondary (diesel with dual generators)
F1.24	20/10*	Trailer tow relay, reversing lamp; trailer tow relay, parking lamp
F1.25	–	not used
F1.26	20	Trailer tow relay, right turn; trailer tow relay, left turn
F1.27	10	Powertrain Control Module (PCM) (12A650)
F1.28	–	not used

*stripped chassis
 **4.6L/5.4L stripped chassis

11-3 Fuse and Relay Information

Central Junction Box (CJB) (14A068)



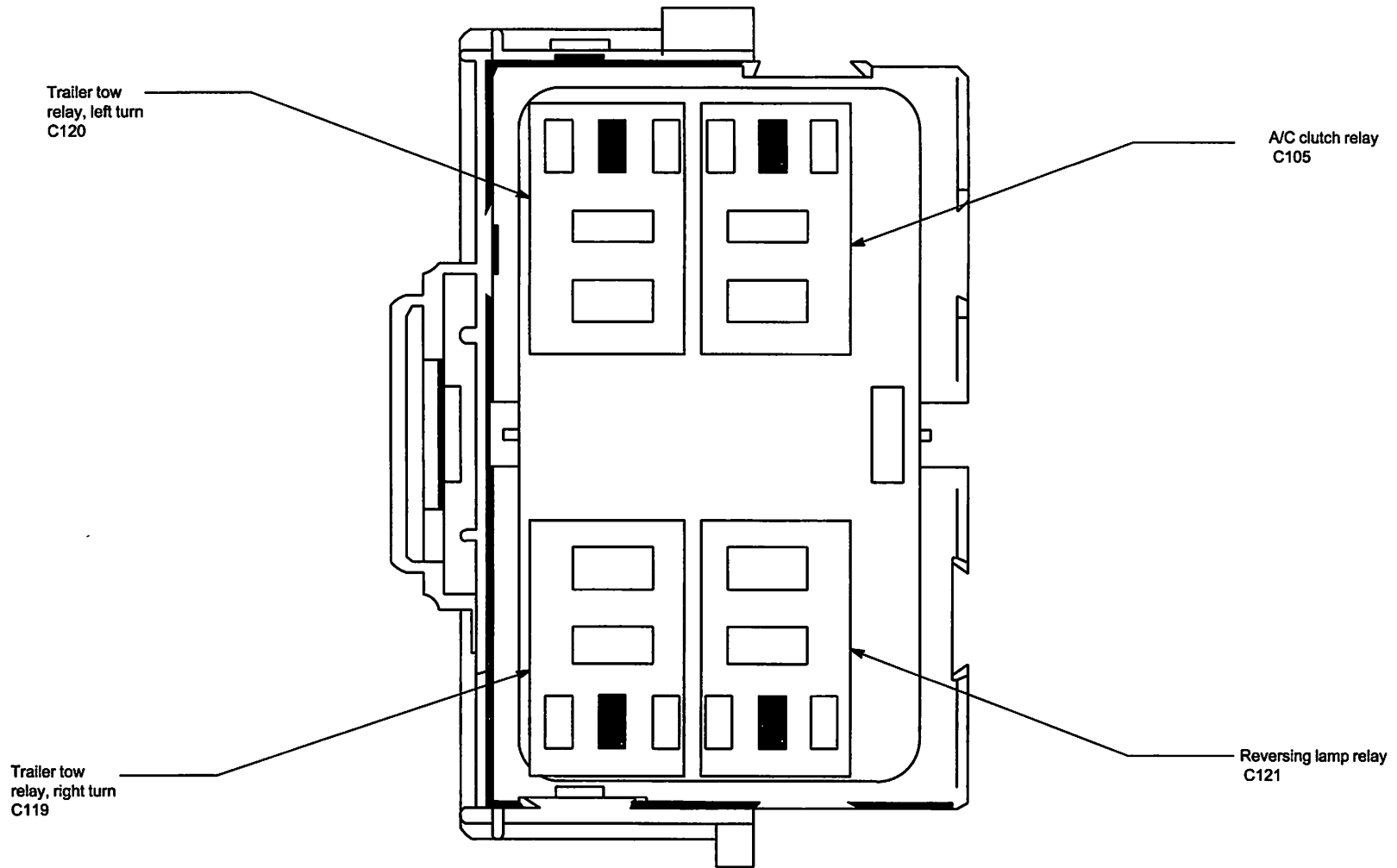
Central Junction Box (CJB) (14A068)

Fuse	Amps	Circuits protected
F2.1	5	ABS control module (2C219)
F2.2	10	Overdrive cancel switch (7G550) (except diesel), Vehicle Security Module (VSM) (15K602) (with remote keyless entry), tow/haul switch (7G550) (diesel)
F2.3	15	Modified vehicle power (stripped chassis), radio (18806) (except stripped chassis), overhead console (with overhead console), video cassette player (with rear seat entertainment), video display, right (with rear seat entertainment), video display, left (with rear seat entertainment)
F2.4	15	Battery saver relay, main light switch (11654) (stripped chassis), modified vehicle power (stripped chassis)
F2.5	30	Master window/door lock/unlock switch (with power locks, without remote keyless entry), front passenger window/door lock switch (with power locks, without remote keyless entry), door lock switch, rear doors (with power locks, without remote keyless entry, except cutaway) not used (stripped chassis)
F2.6	10	Brake shift interlock, speed control servo (9C735) (except stripped chassis, except diesel), F1.6 (except stripped chassis)
F2.7	10	Multifunction switch
F2.8	30	Ignition transformer capacitor 1 (18801) (except diesel), Ignition transformer capacitor 2 (18801) (except diesel), PCM power diode, Fuel heater (diesel), Coil On Plug (COP) (except diesel), Fuel Injection Control Module (FICM) (diesel), Auxiliary Powertrain Control Module (APCM) (diesel), heated Positive Crankcase Ventilation (PCV) element (4.6L, 6.8L)
F2.9	30	Wiper Control Module (WCM), modified vehicle power (stripped chassis) windshield wiper motor (17508) (except stripped chassis)
F2.10	20	Main light switch (11654), multifunction switch, Vehicle Security Module (VSM) (15K602) (with remote keyless entry)
F2.11	15	Multifunction switch, Brake pedal position switch (13480)
F2.12	15	Digital Transmission Range (DTR) sensor (7F293) (except diesel), Auxiliary battery relay (with auxiliary battery), reversing lamp relay (Diesel)
F2.13	15	Function selector switch assembly front, Temperature blend door actuator (19E616), modified vehicle power (stripped chassis)
F2.14	5	Instrument cluster
F2.15	5	Trailer tow relay, battery charge, instrument cluster, Daytime Running Lamps (DRL) module (with daytime running lamps)
F2.16	30	Seat adjust switch, driver side front (14A701) (with power seats), not used (stripped chassis)
F2.17	5	Exterior rear view mirror switch (17B676) (with power mirrors), not used (stripped chassis)
F2.18	-	not used

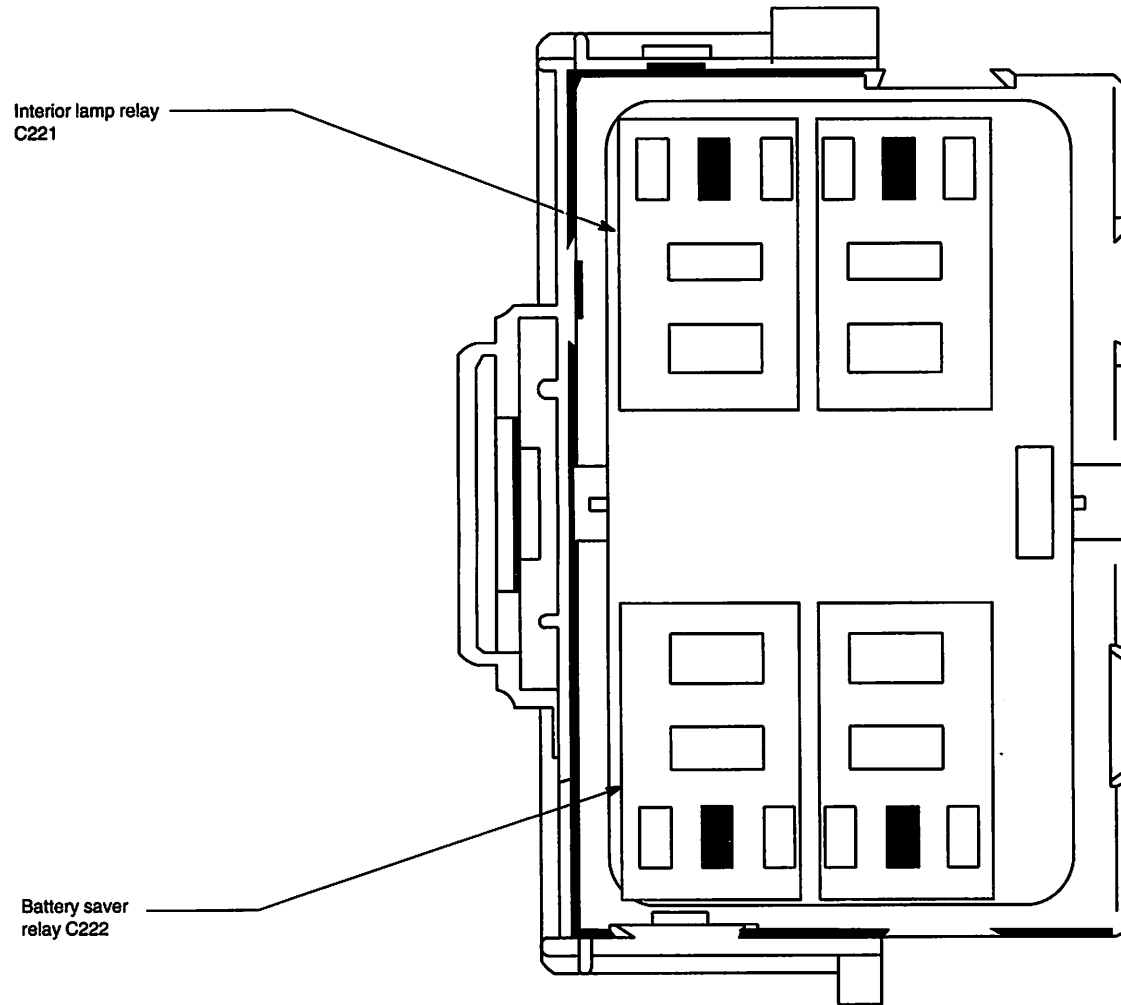
Fuse	Amps	Circuits protected
F2.19	-	not used
F2.20	10	Restraints control module (14B321) (except stripped chassis)
F2.21	-	not used
F2.22	15	Radio (18806), instrument cluster, battery saver relay, interior lamp relay, accessory delay relay, video cassette player (with rear seat entertainment), Rear Seat Entertainment (RSE) module (with rear seat entertainment)
F2.23	20	Vehicle Security Module (VSM) (15K602) (with remote keyless entry), not used (stripped chassis)
F2.24	-	not used
F2.25	10	Headlamp, left (13008) (low beam)
F2.26	20	Cigar lighter, front (15055), (except stripped chassis) Data Link Connector (DLC) (14489)
F2.27	5	Radio (18806) (except stripped chassis)
F2.28	-	not used
F2.29	20	Power point, console 2 (with rear seat entertainment)
F2.30	15	Headlamps (high beam)
F2.31	10	Headlamp, right (13008), (low beam)
F2.32	20	Power point (19N236)
F2.33	10	Starter relay (Diesel), Digital Transmission Range (DTR) sensor (except diesel)
F2.34	20/30*	Power point, console 1 (with rear seat entertainment) Modified vehicle power (stripped chassis)
F2.35	-	not used
F2.36	5	Instrument cluster, Radio (18806) (except stripped chassis), Air bag sliding contact (14A664) (except stripped chassis), function selector switch assembly, front (except stripped chassis), Rear Seat Entertainment (RSE) module (with rear seat entertainment), Modified vehicle power (modified vehicle)
F2.37	-	not used
F2.38	10	Modified vehicle power (cutaway)
F2.39	10	Multifunction switch, high mount stop lamp, dealer installed electronic brake
F2.40	20	Power point (19N236)
F2.41	30	Modified vehicle power
F2.42	-	not used
F2.43	20 c.b.	Front passenger window/door lock switch (with power door locks), master window/door lock/unlock switch (with power door locks)
F2.44	-	not used

* Stripped Chassis

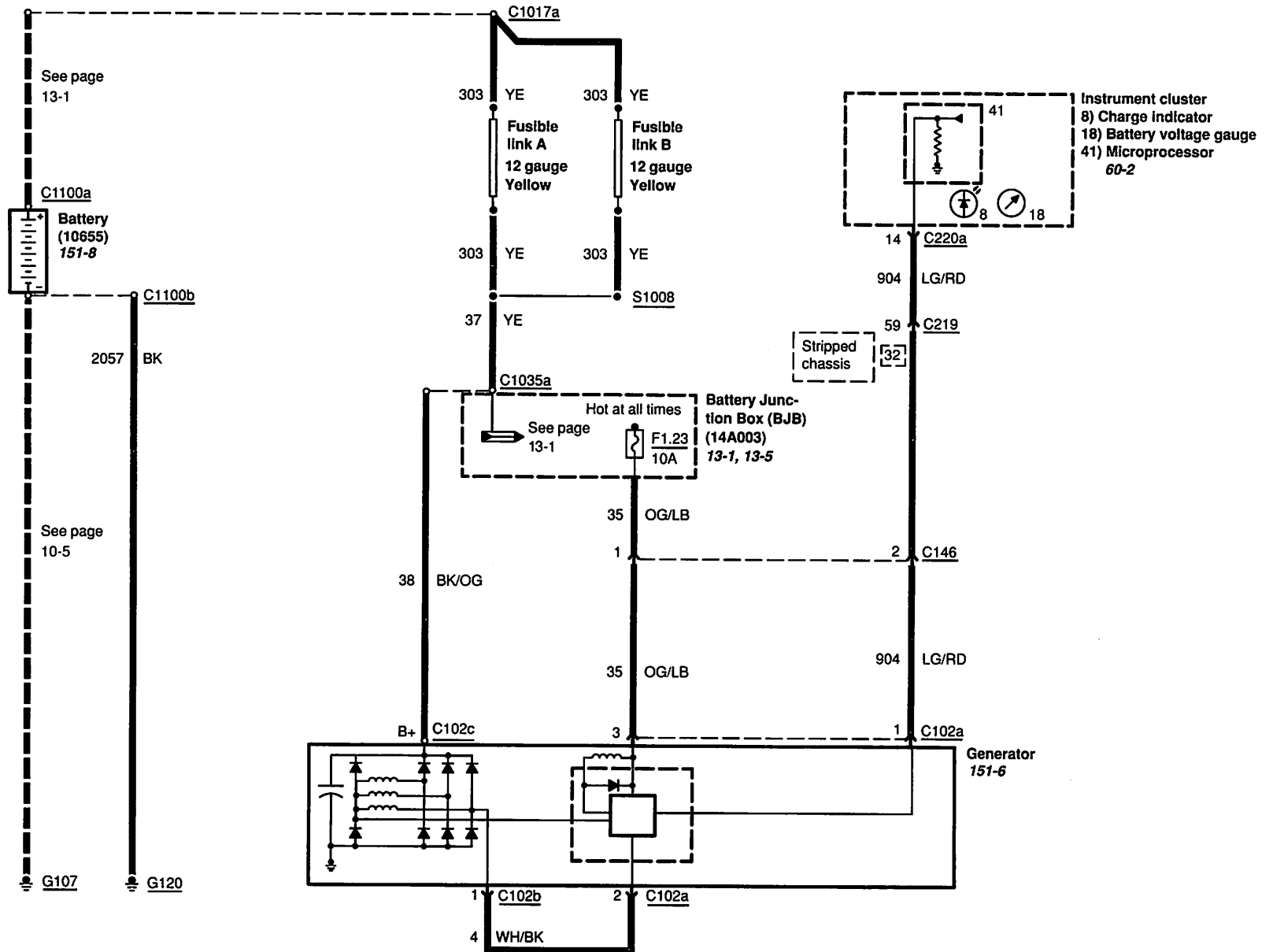
Auxiliary Relay Box 1



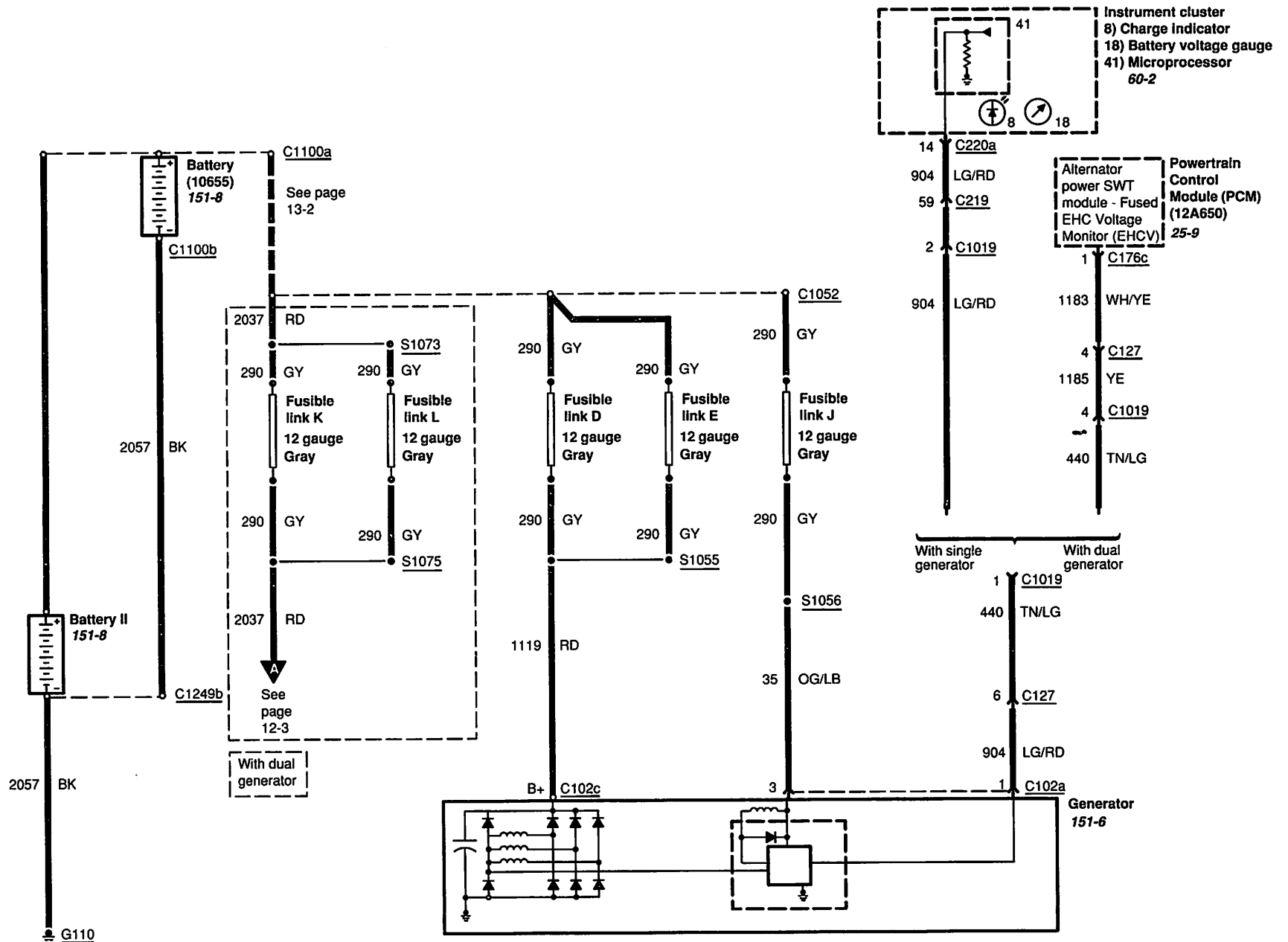
Auxiliary Relay Box 2



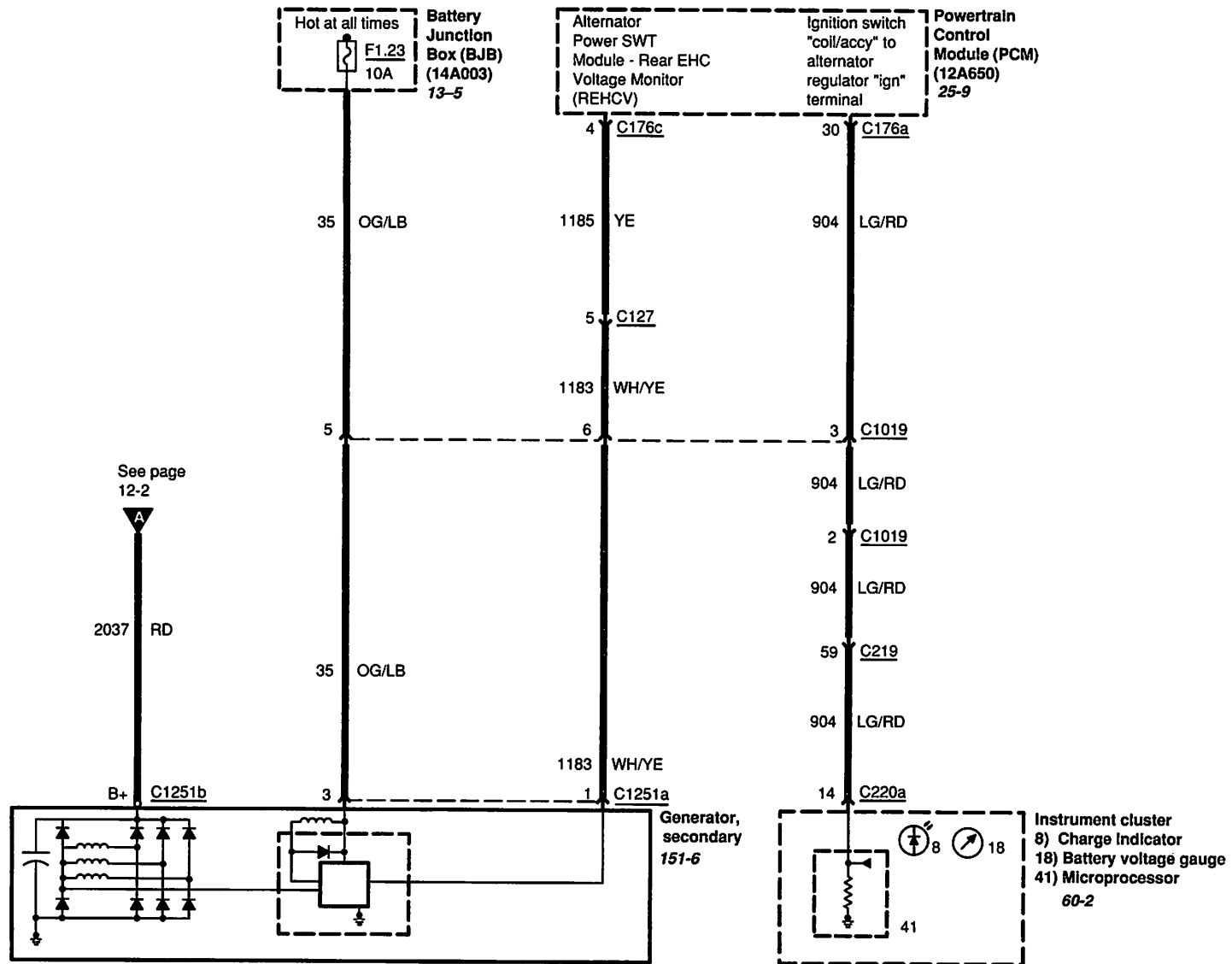
Except Diesel



Diesel

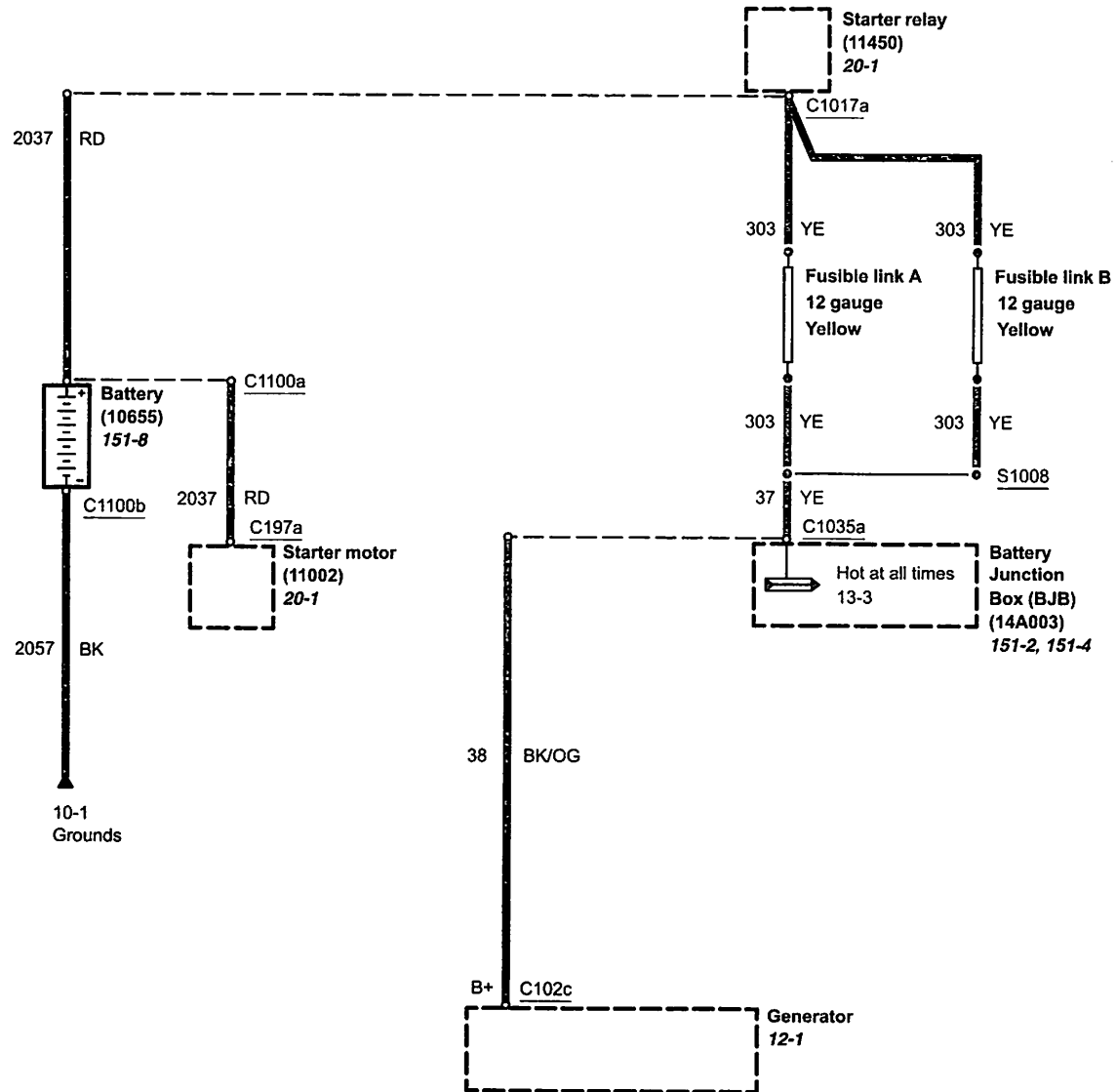


Diesel with Dual Generator

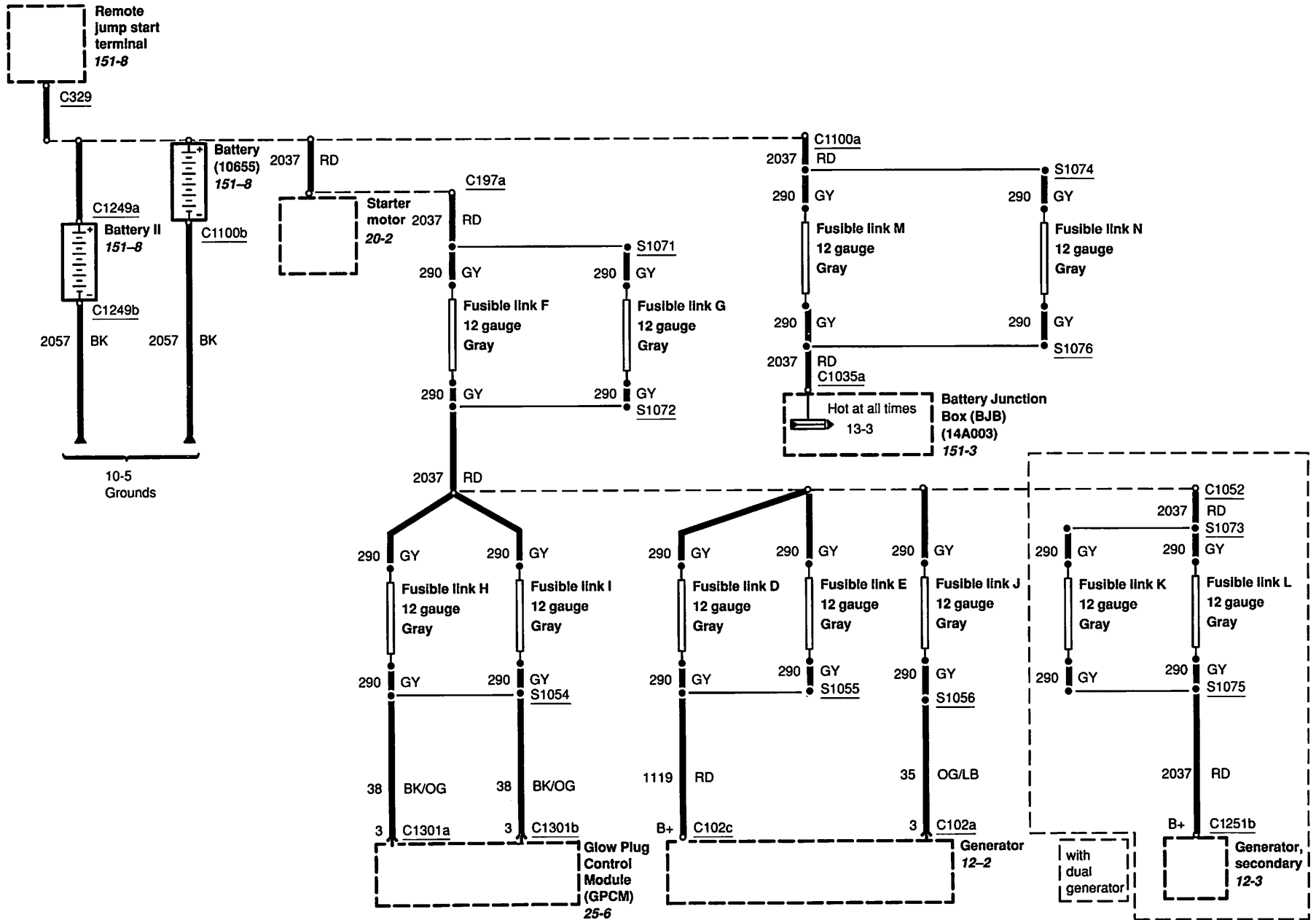


Notes

Except Diesel

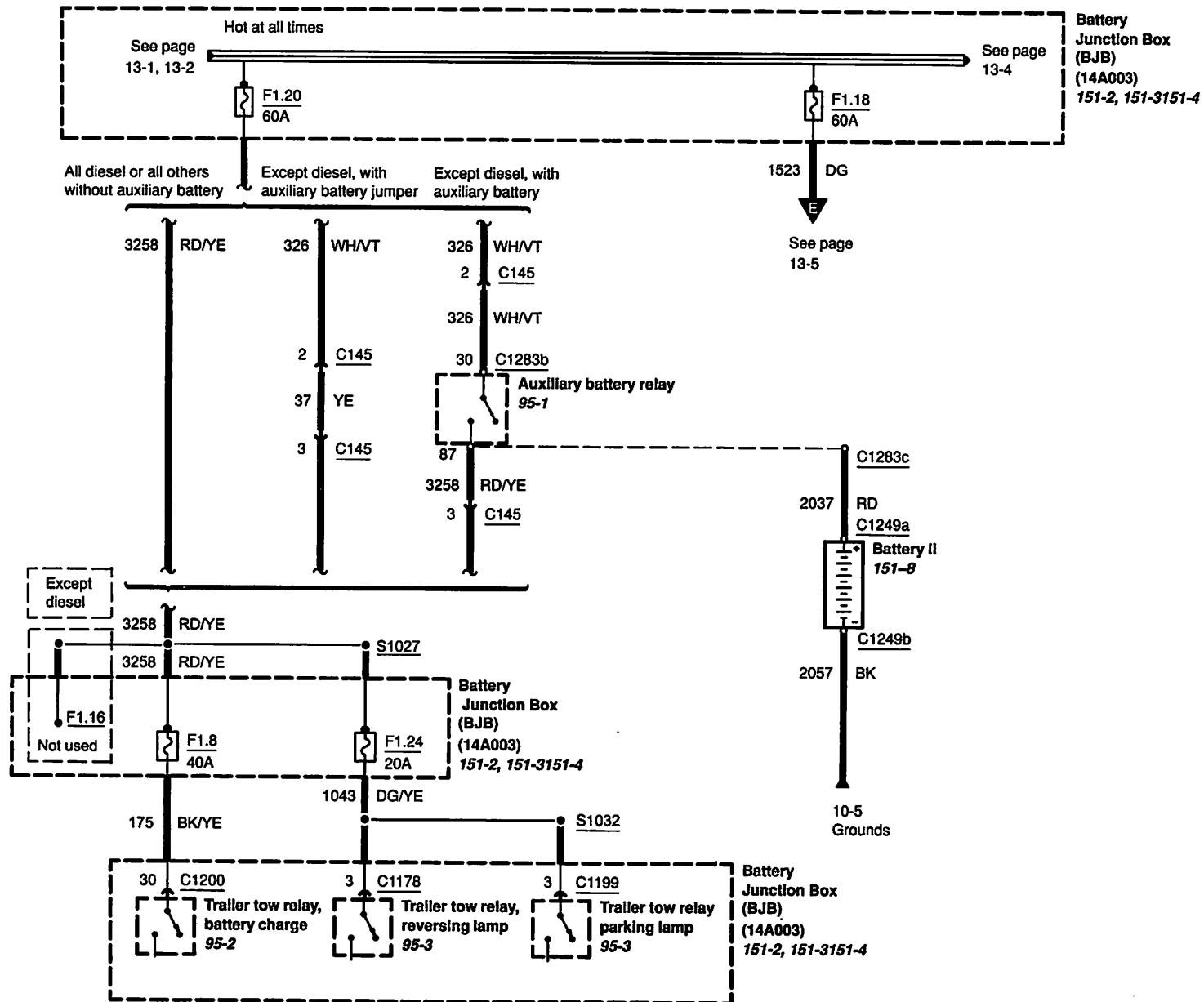


Diesel

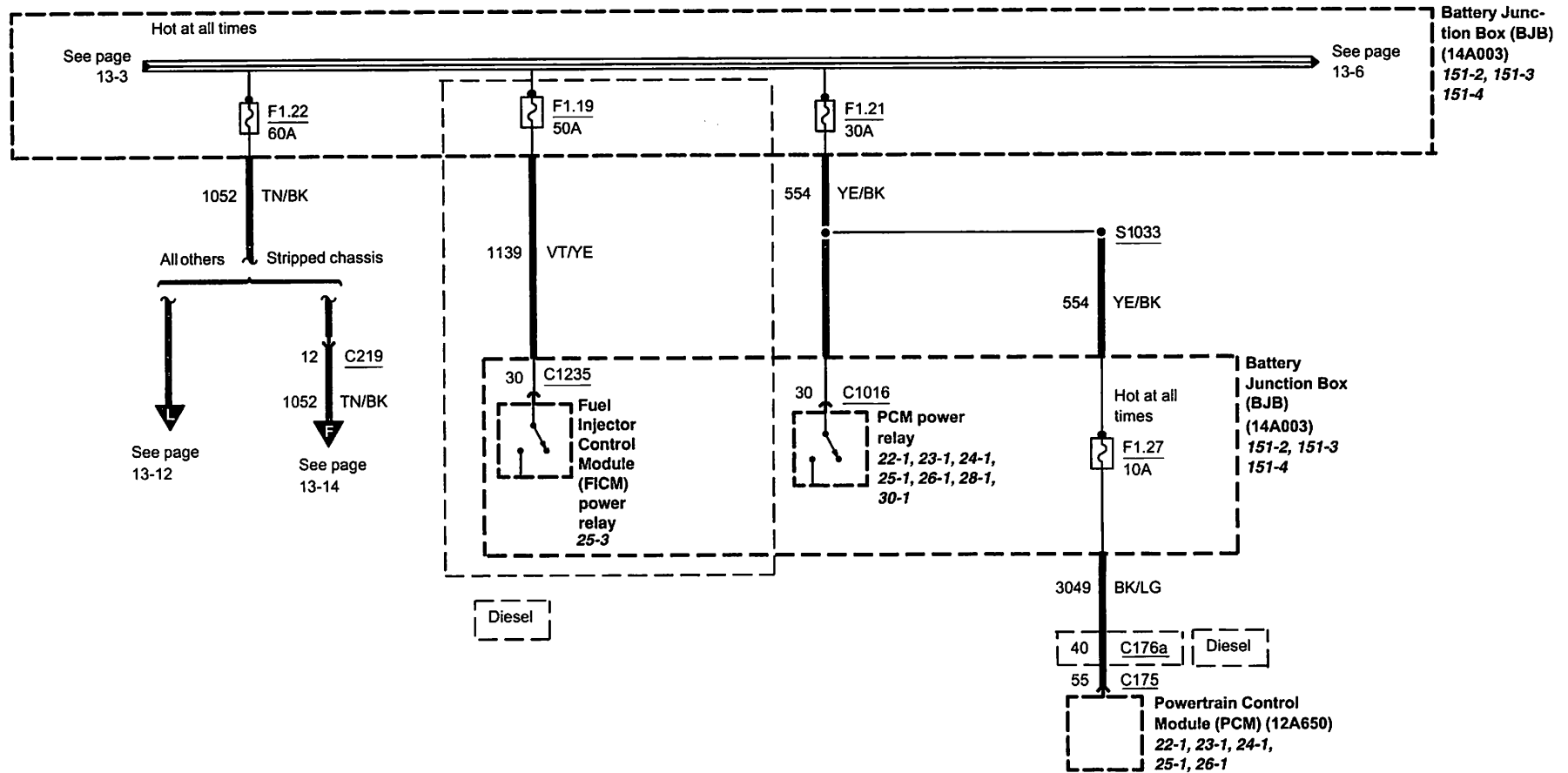


13-3 Power Distribution

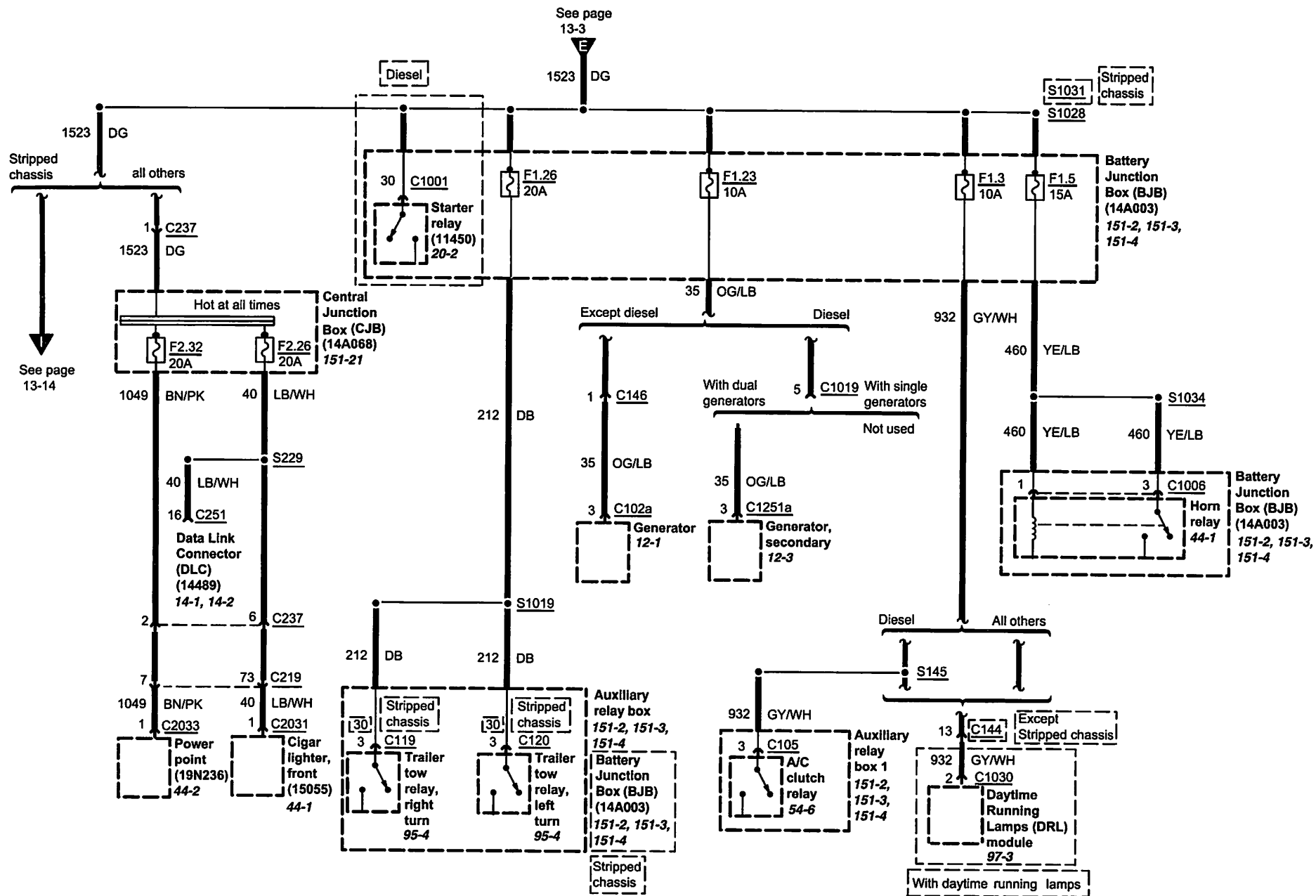
F1.8, F1.16, F1.18, F1.20, F1.24



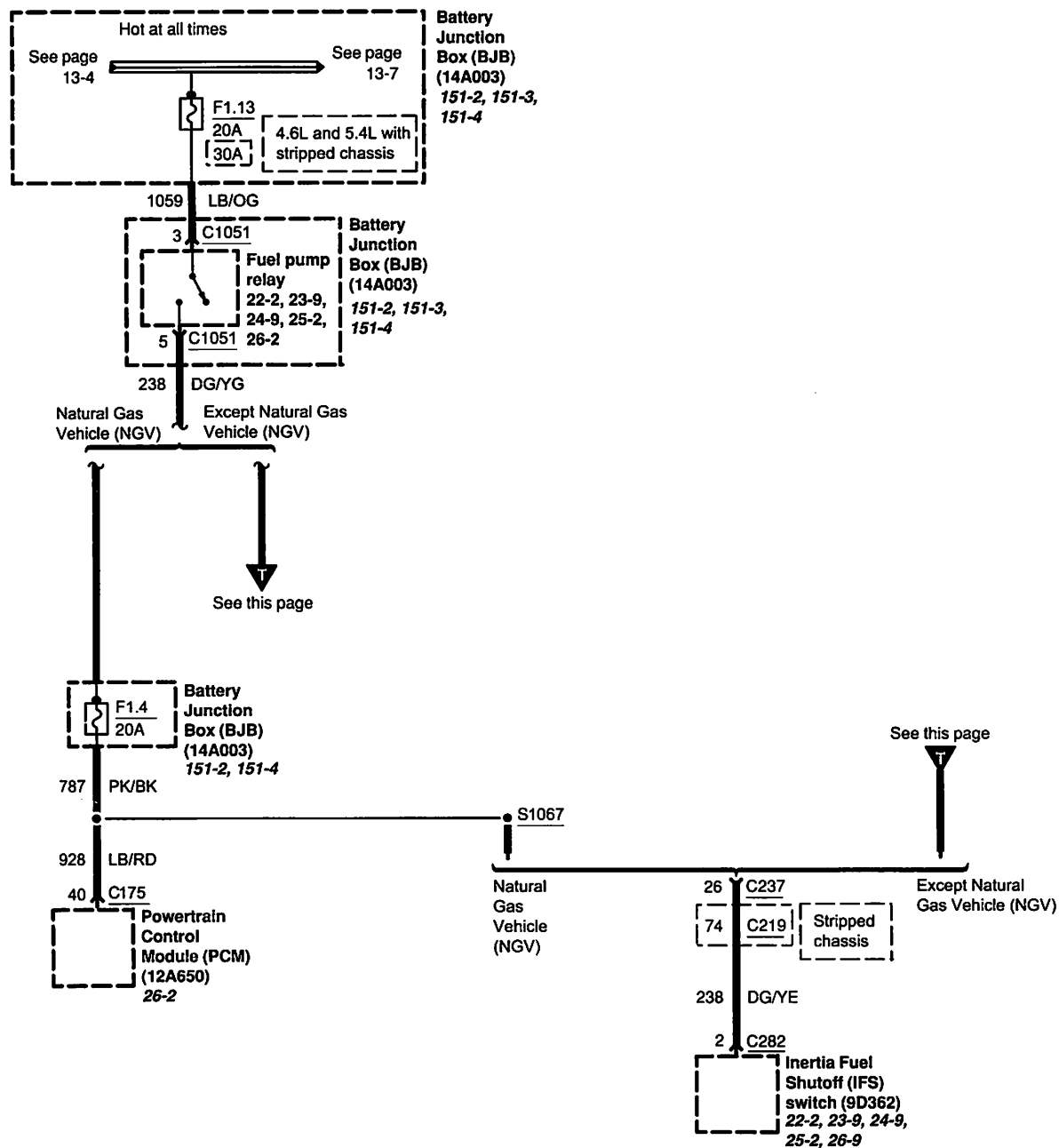
F1.19, F1.21, F1.22, F1.27



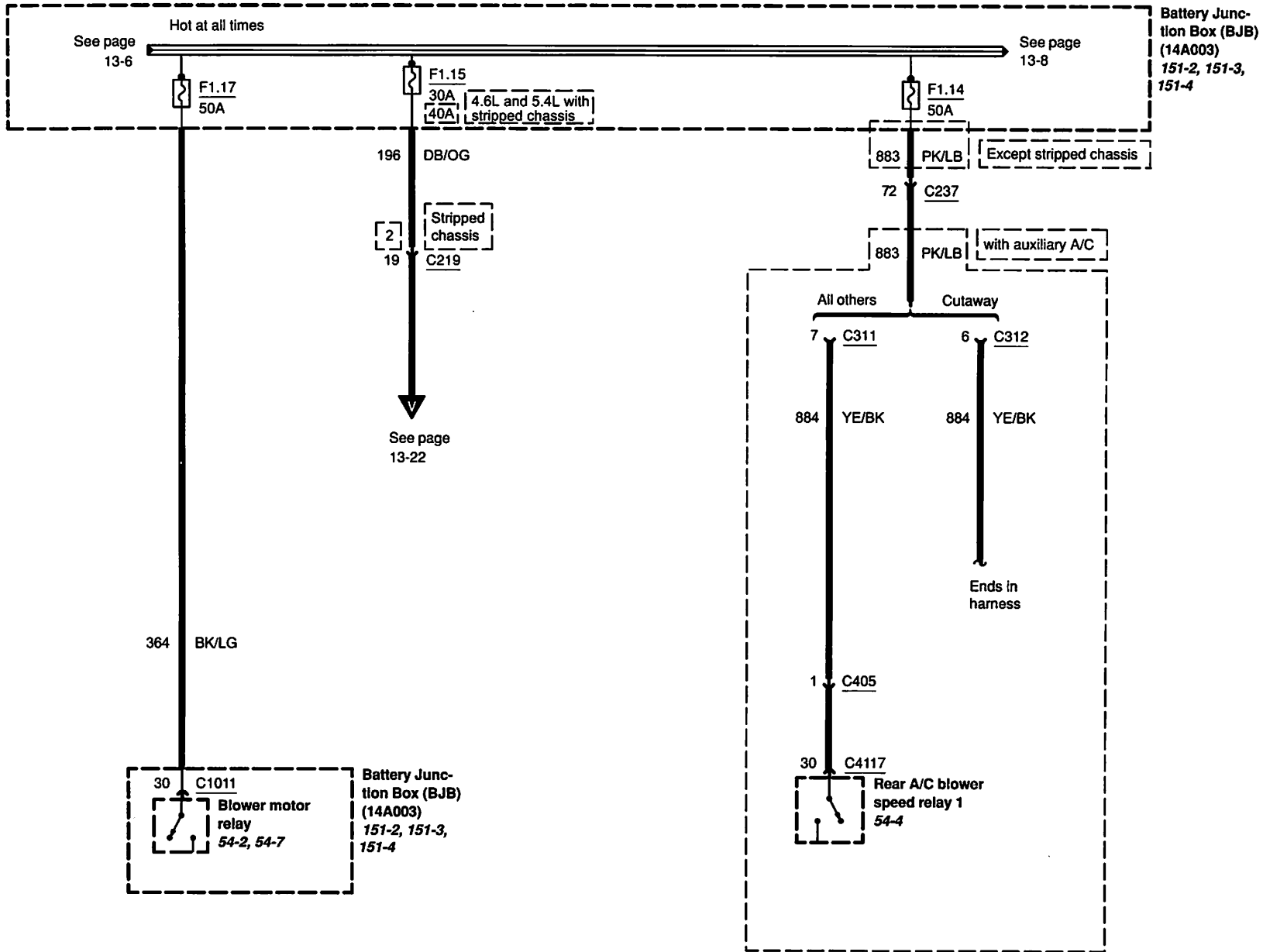
F1.3, F1.5, F1.23, F1.26, F2.26, F2.32



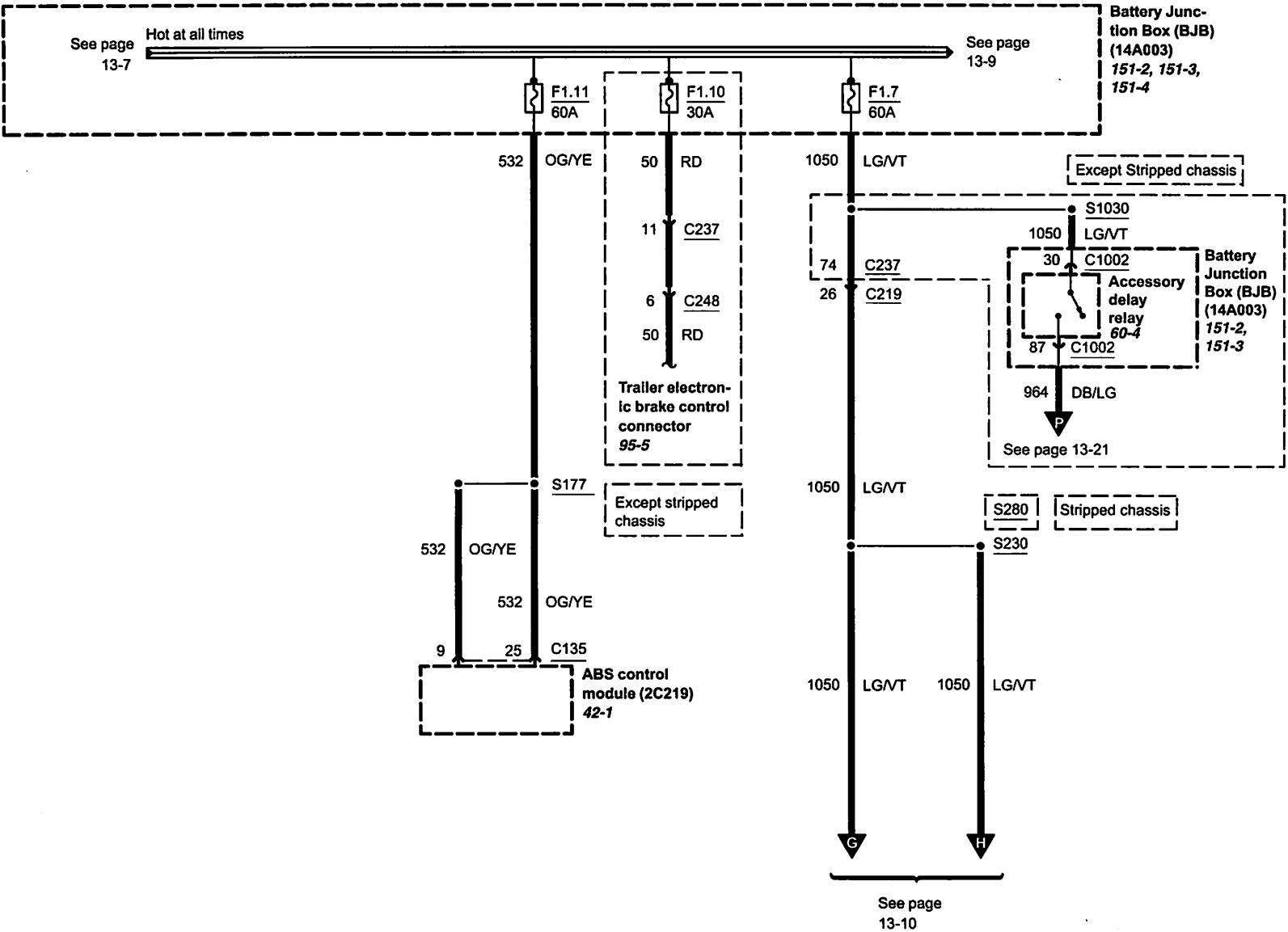
F1.4, F1.13



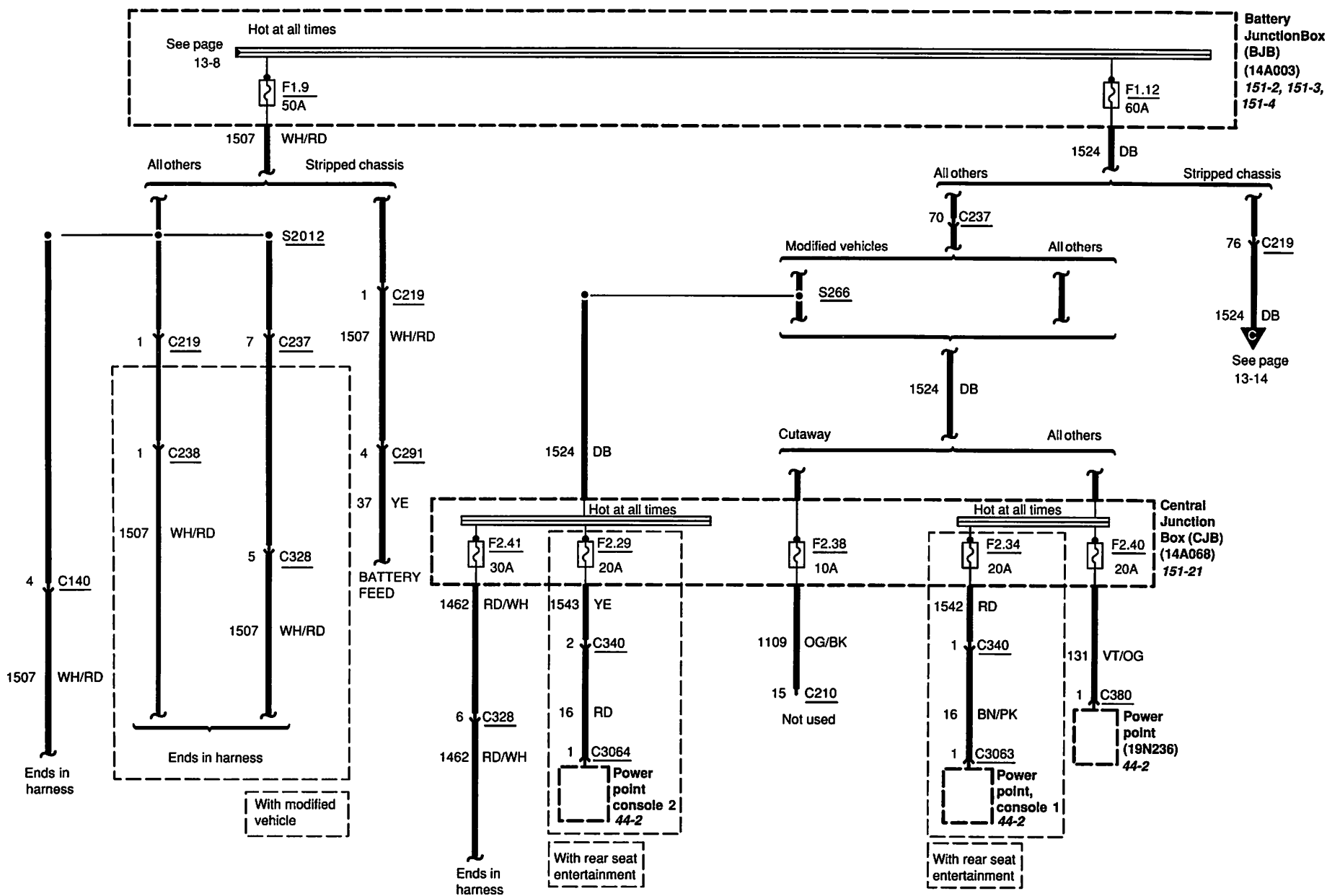
F1.14, F1.15, F1.17

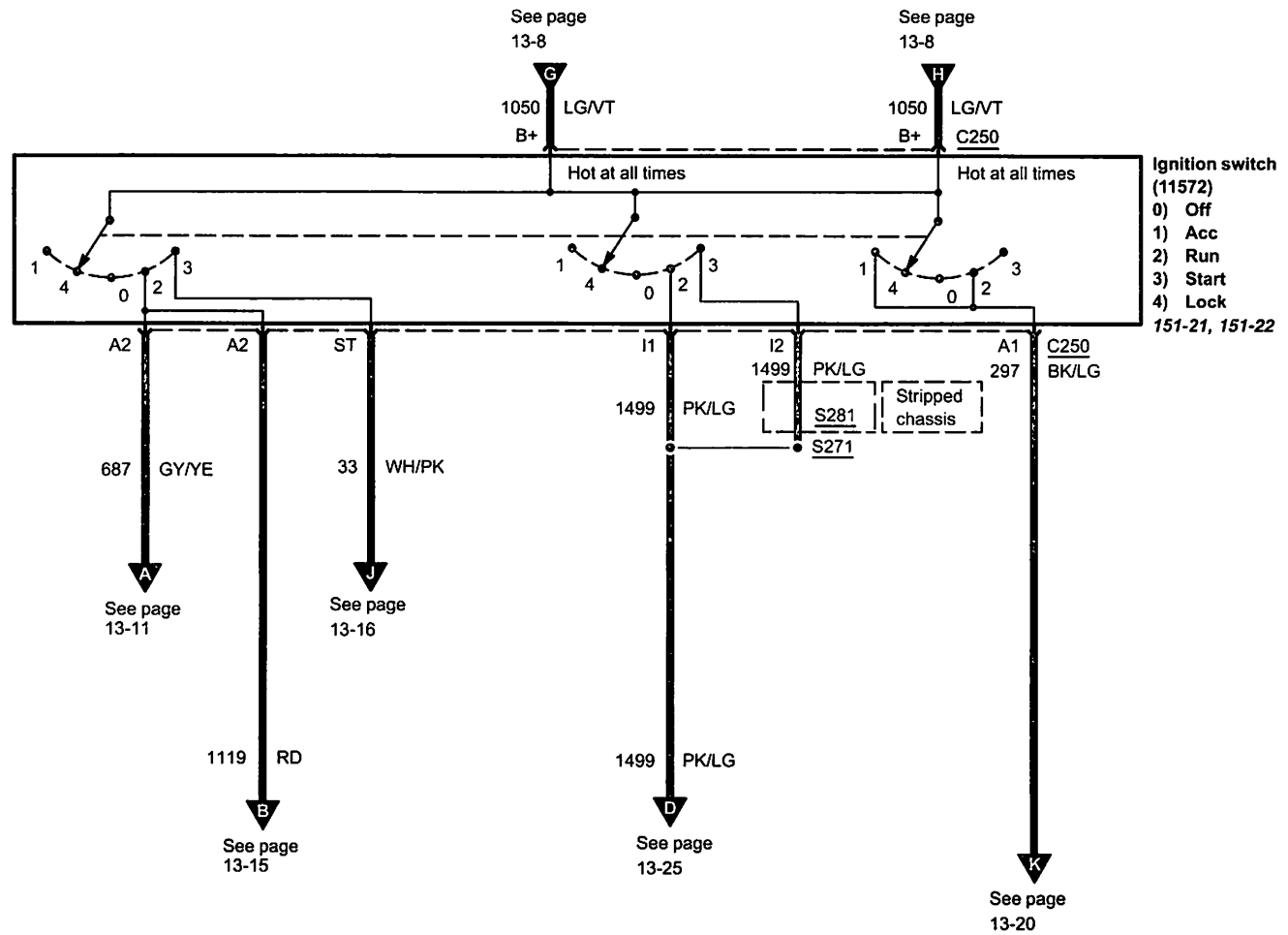


F1.7, F1.10, F1.11

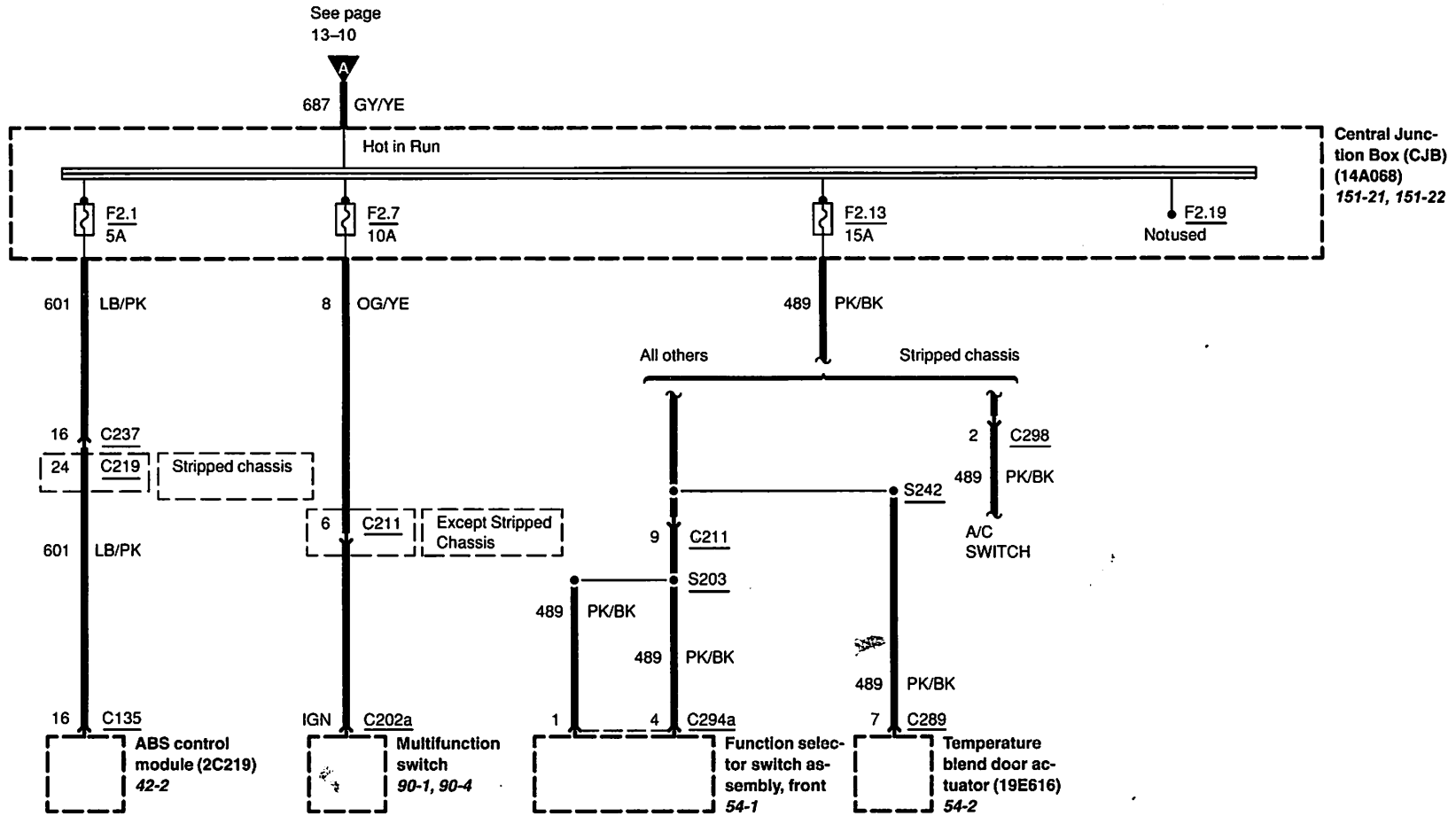


F1.9, F1.12, F2.29, F2.34, F2.35, F2.38, F2.40, F2.41

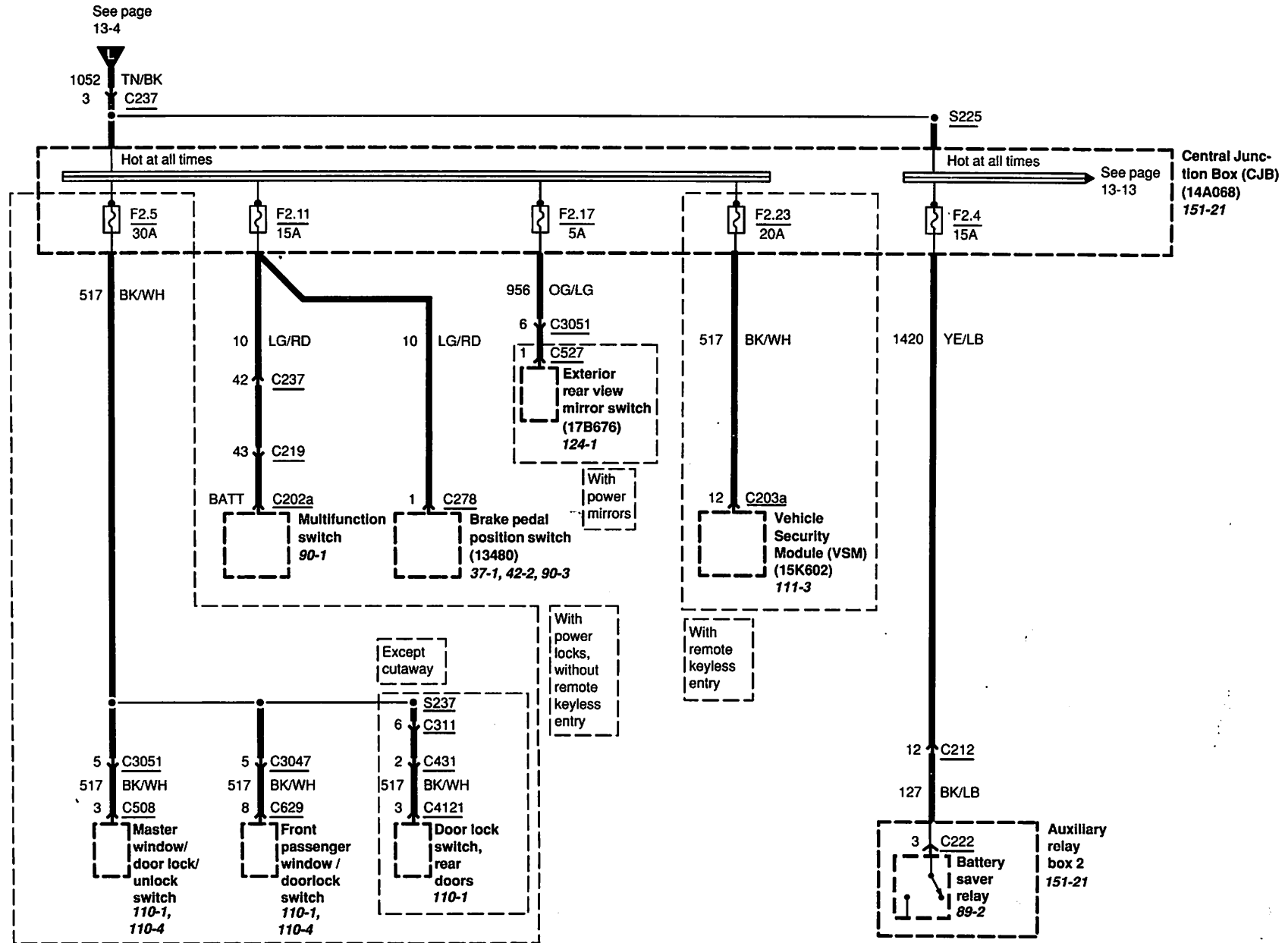




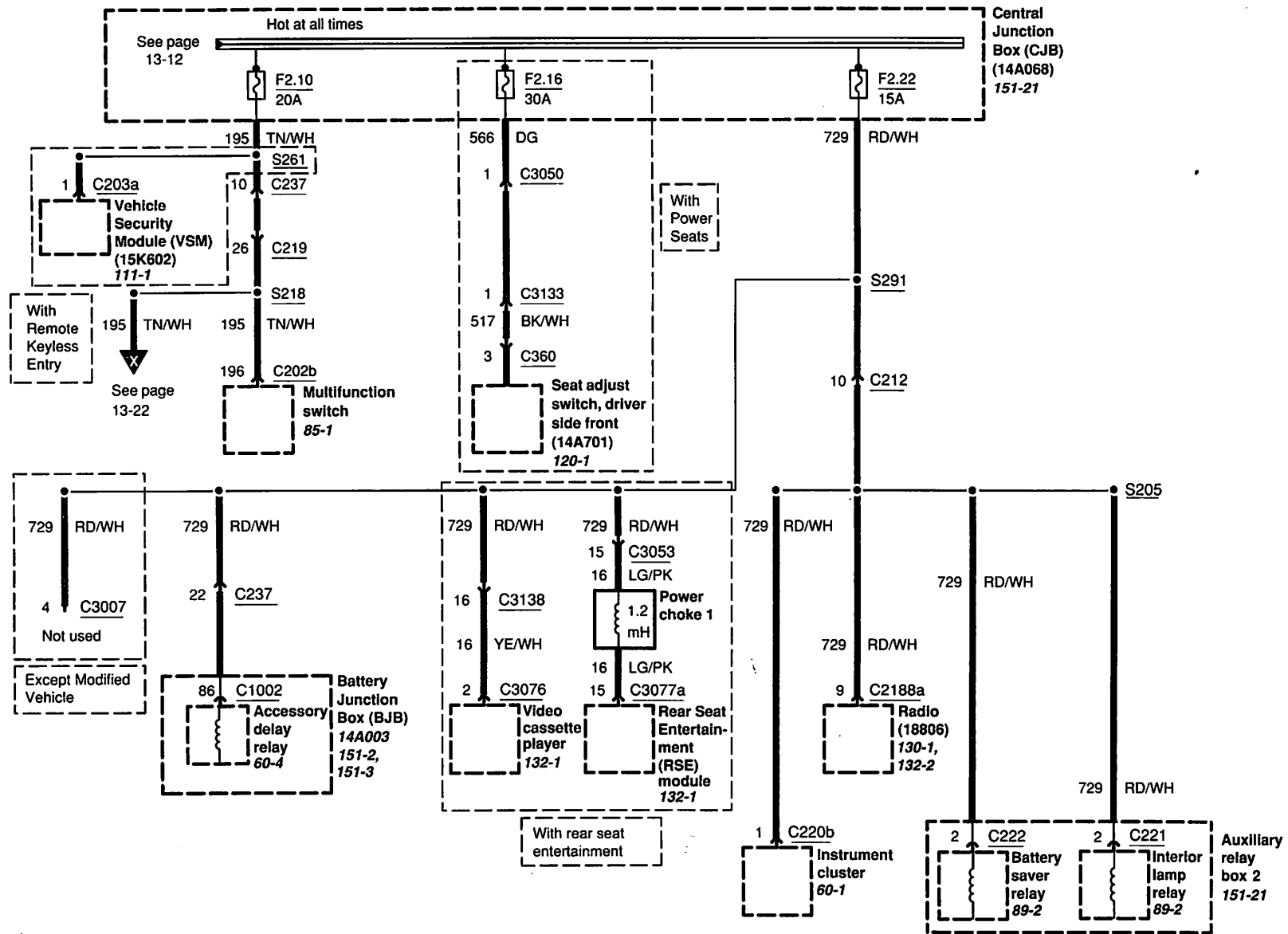
F2.1, F2.7, F2.13, F2.19



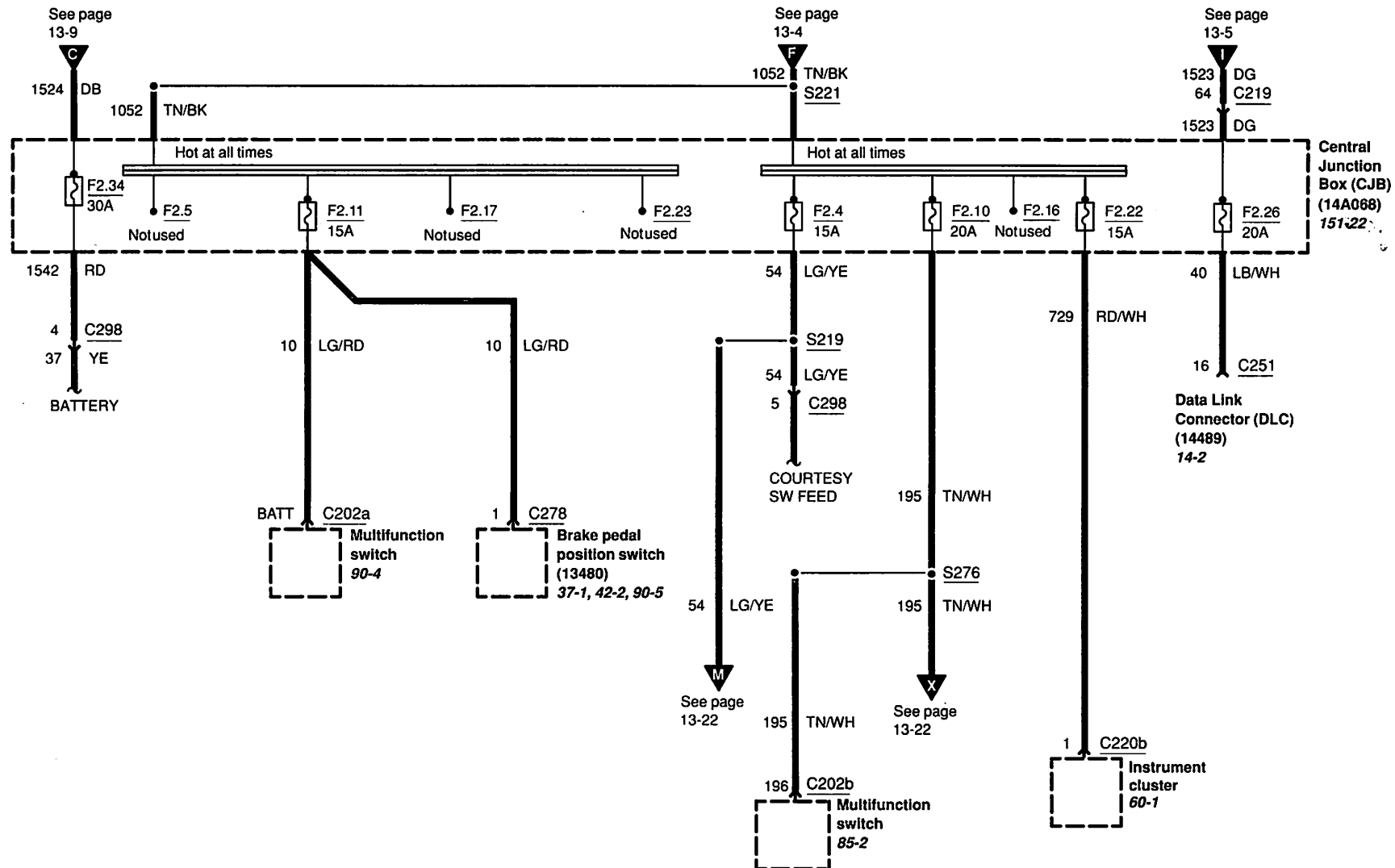
Except stripped chassis; F2.4, F2.5, F2.11, F2.17, F2.23



Except stripped chassis; F2.10, F2.16, F2.22

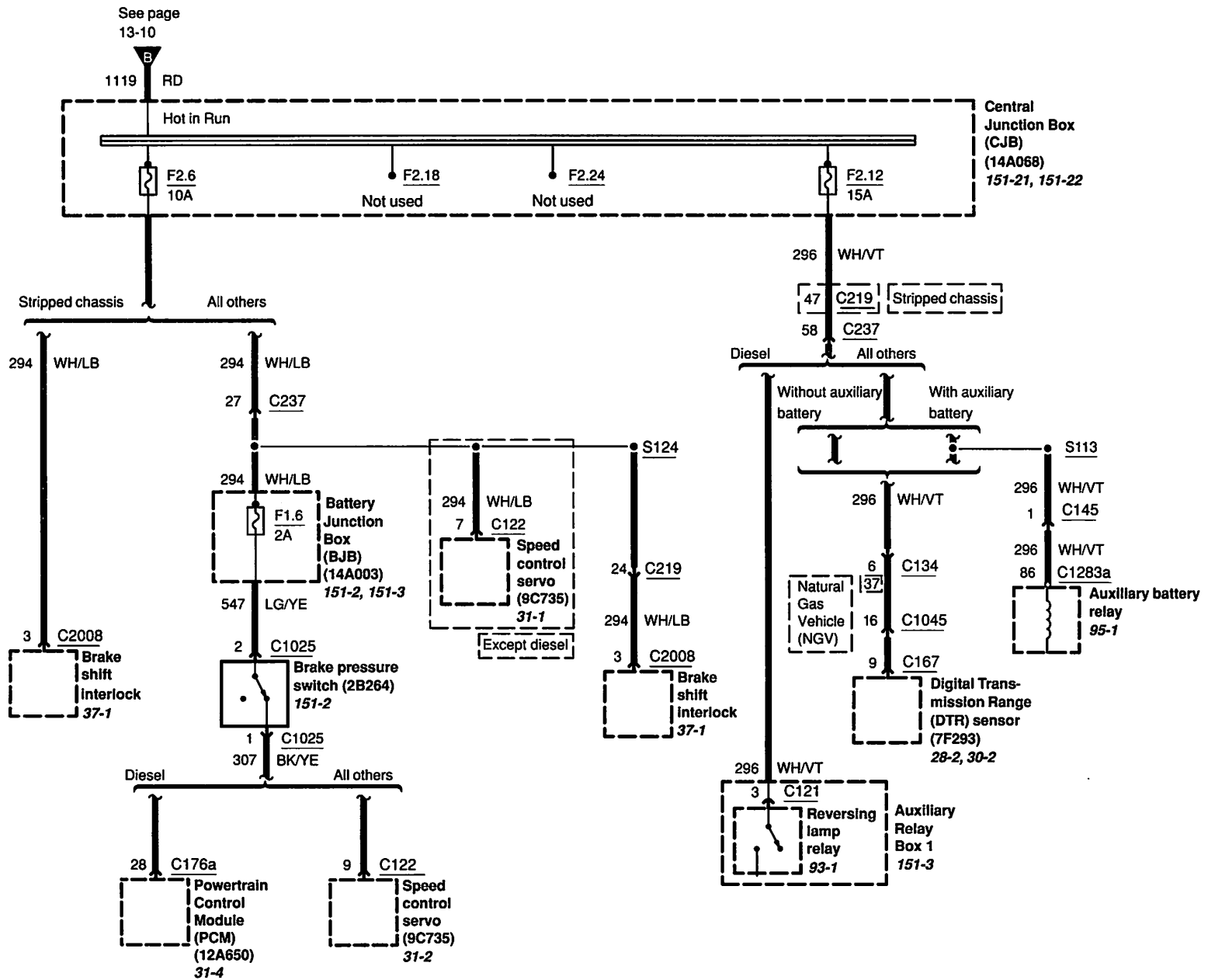


Stripped chassis; F2.4, F2.5, F2.10, F2.11 F2.16, F2.17, F2.22, F2.23, F2.26, F2.34

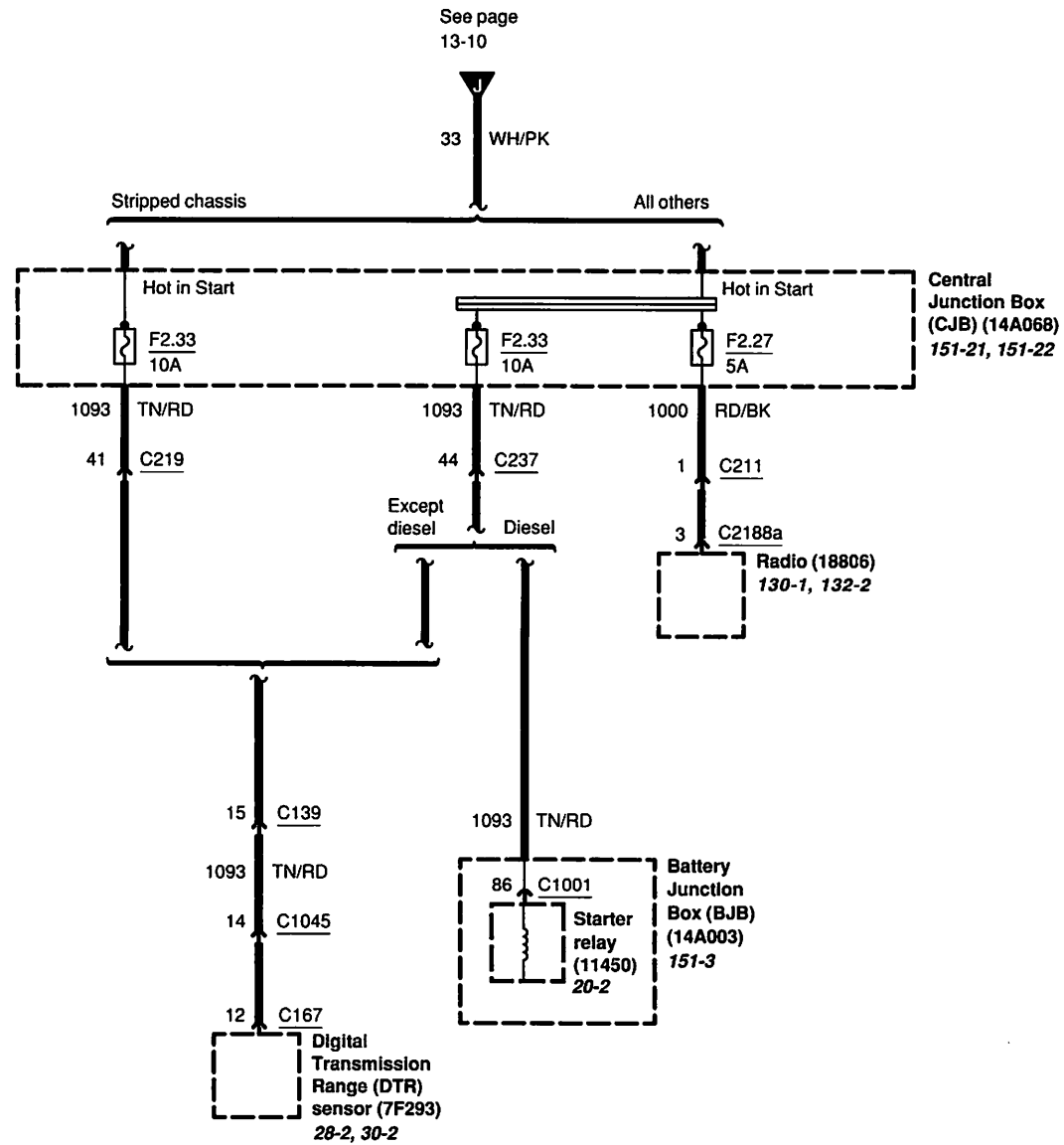


13-15 Power Distribution

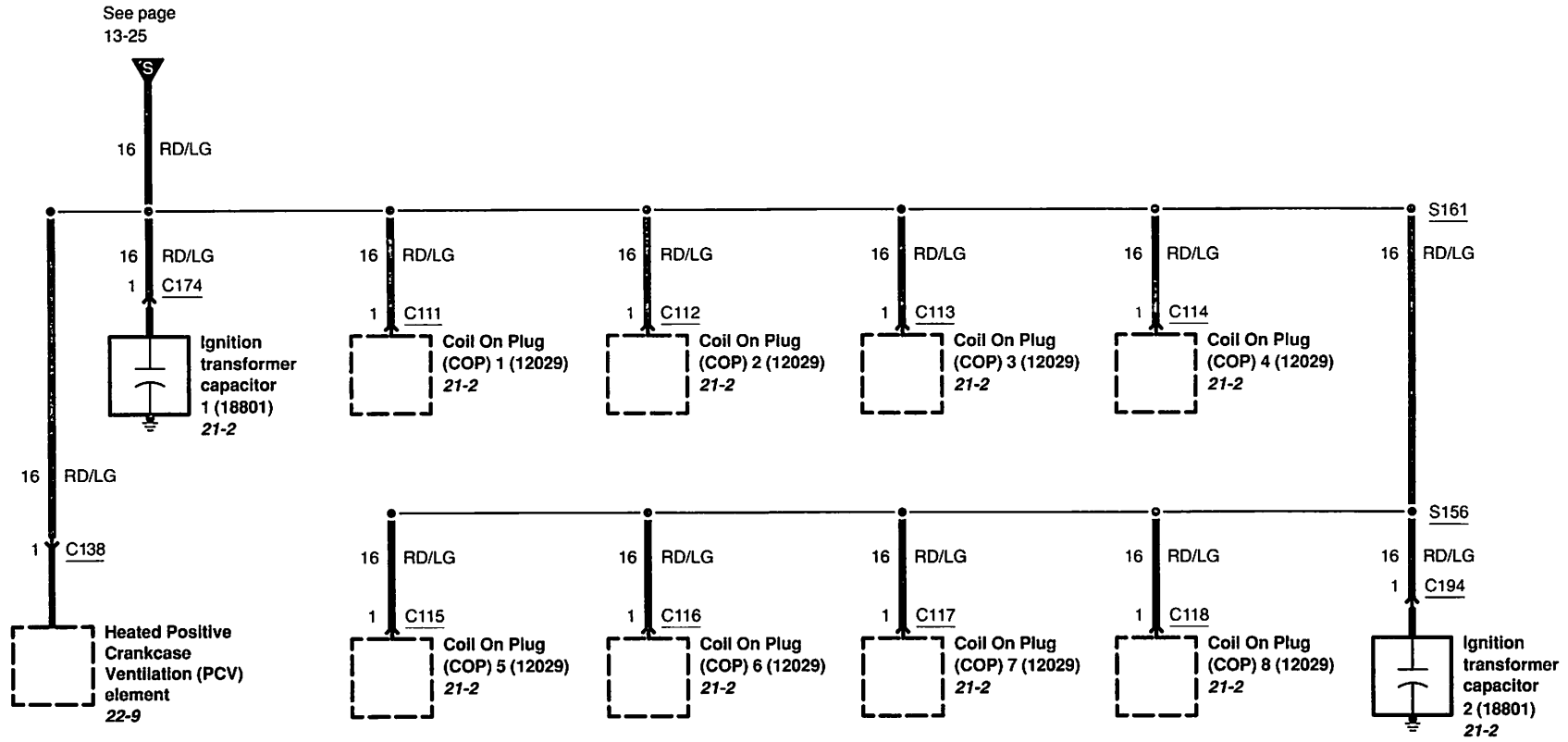
F1.6, F2.6, F2.12, F2.18, F2.24



F2.27, F2.33

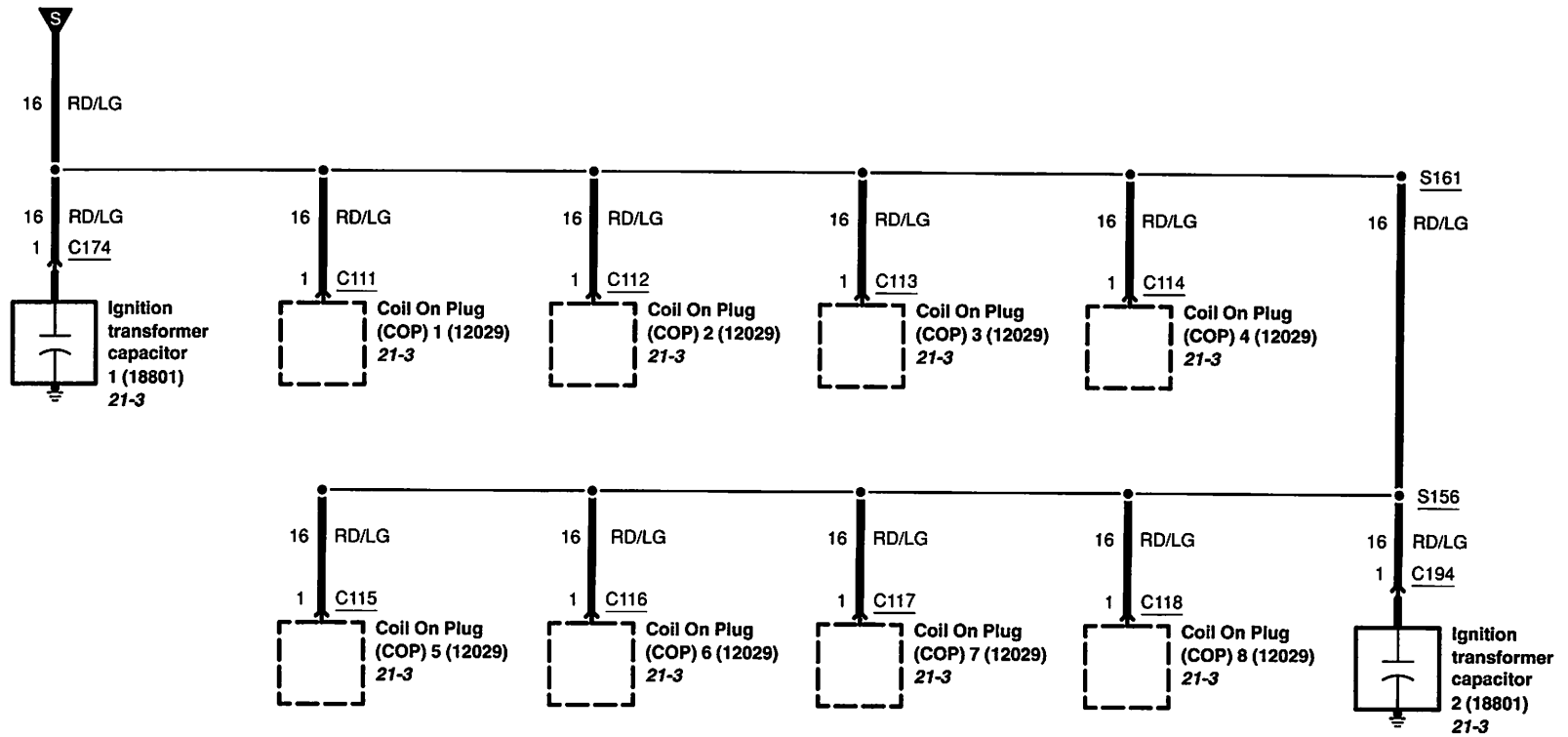


4.6L

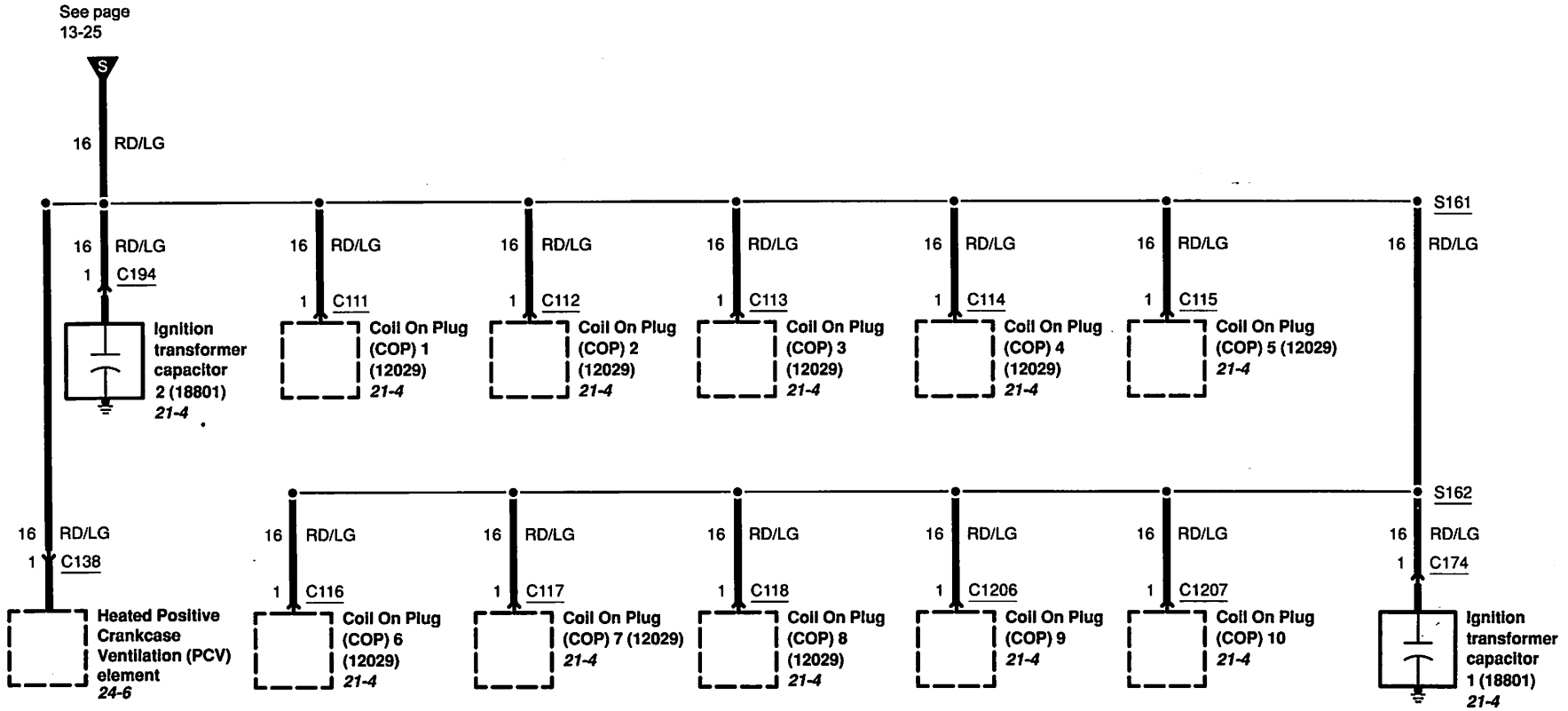


5.4L

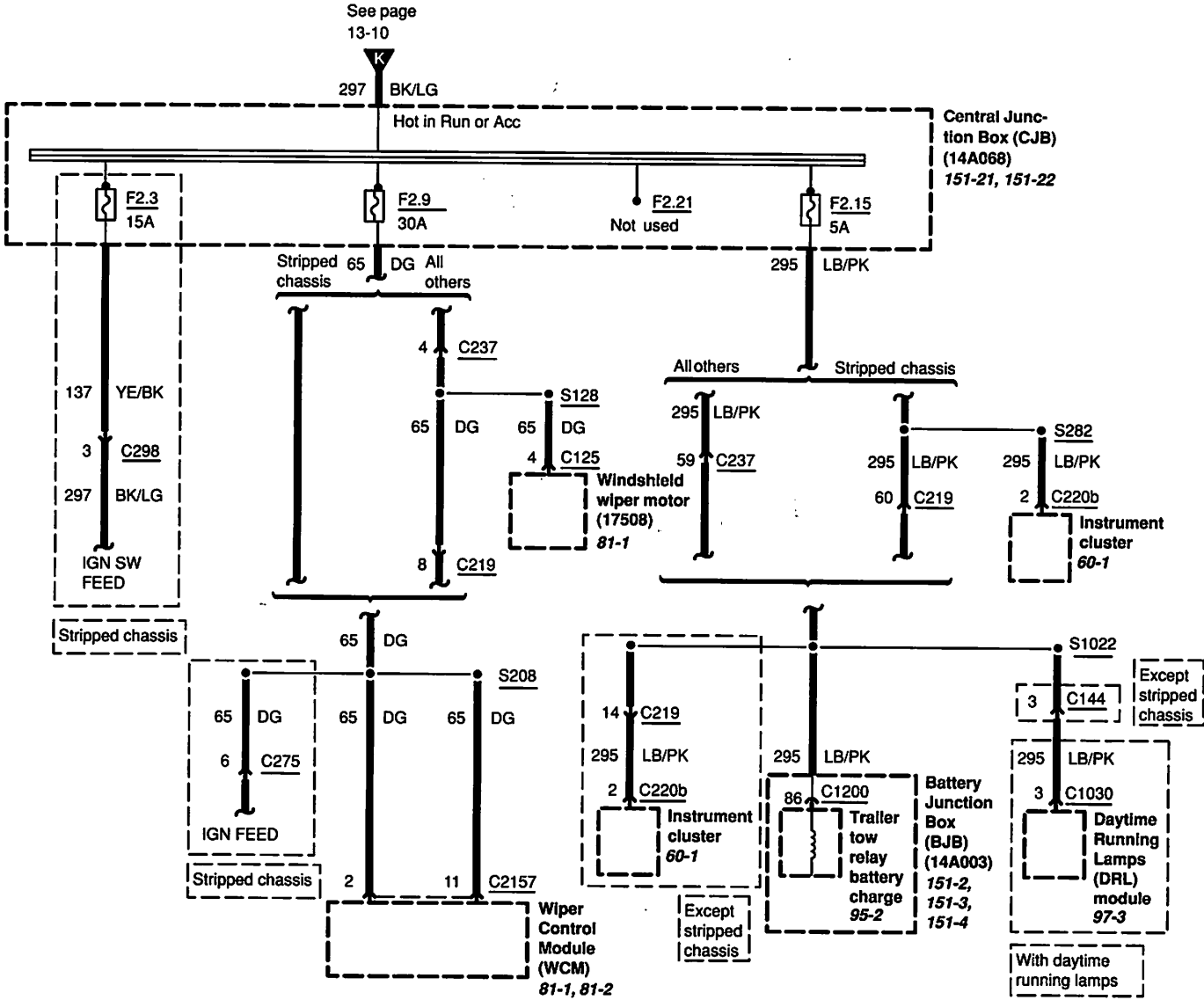
See page
13-25



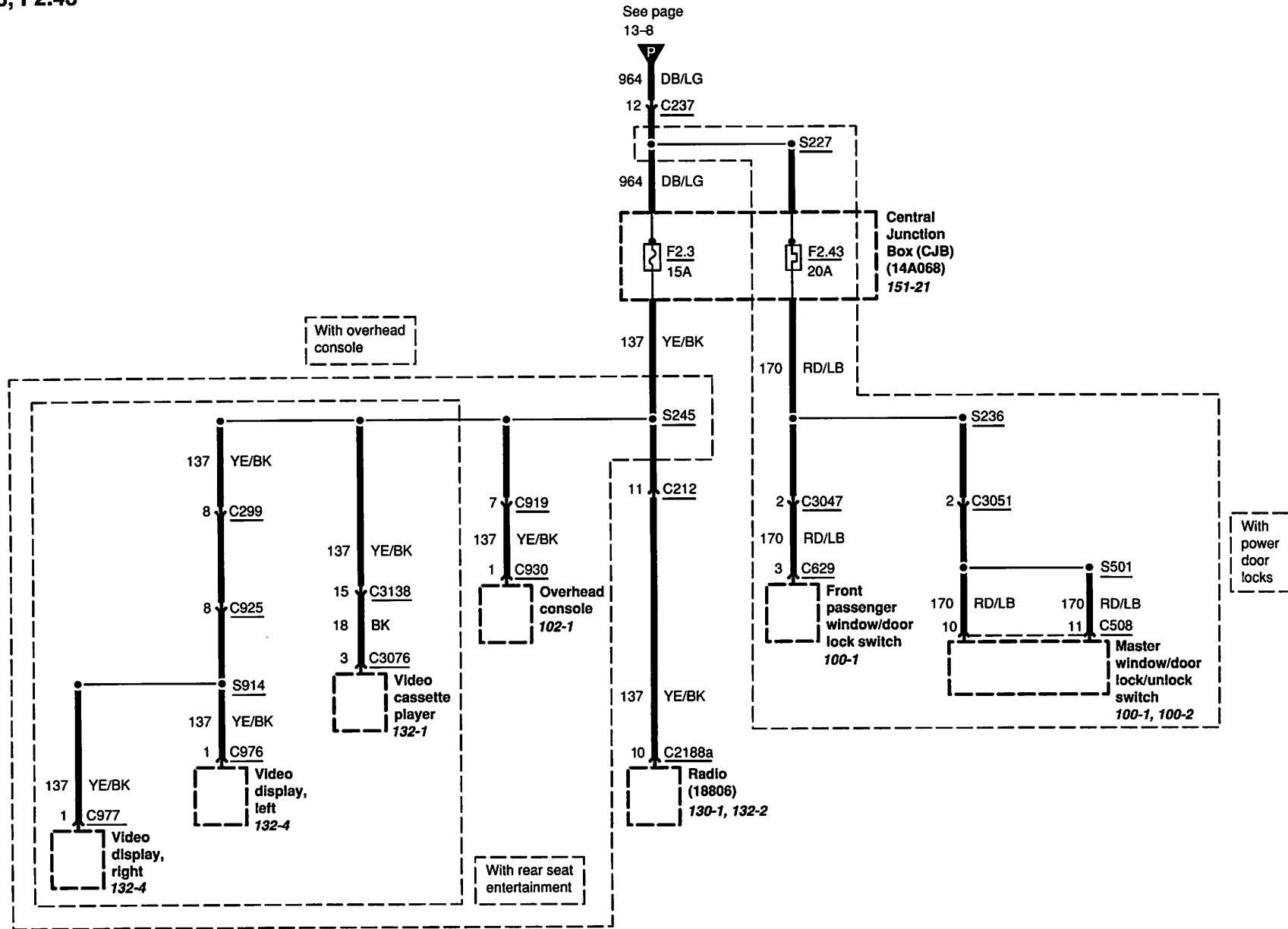
6.8L



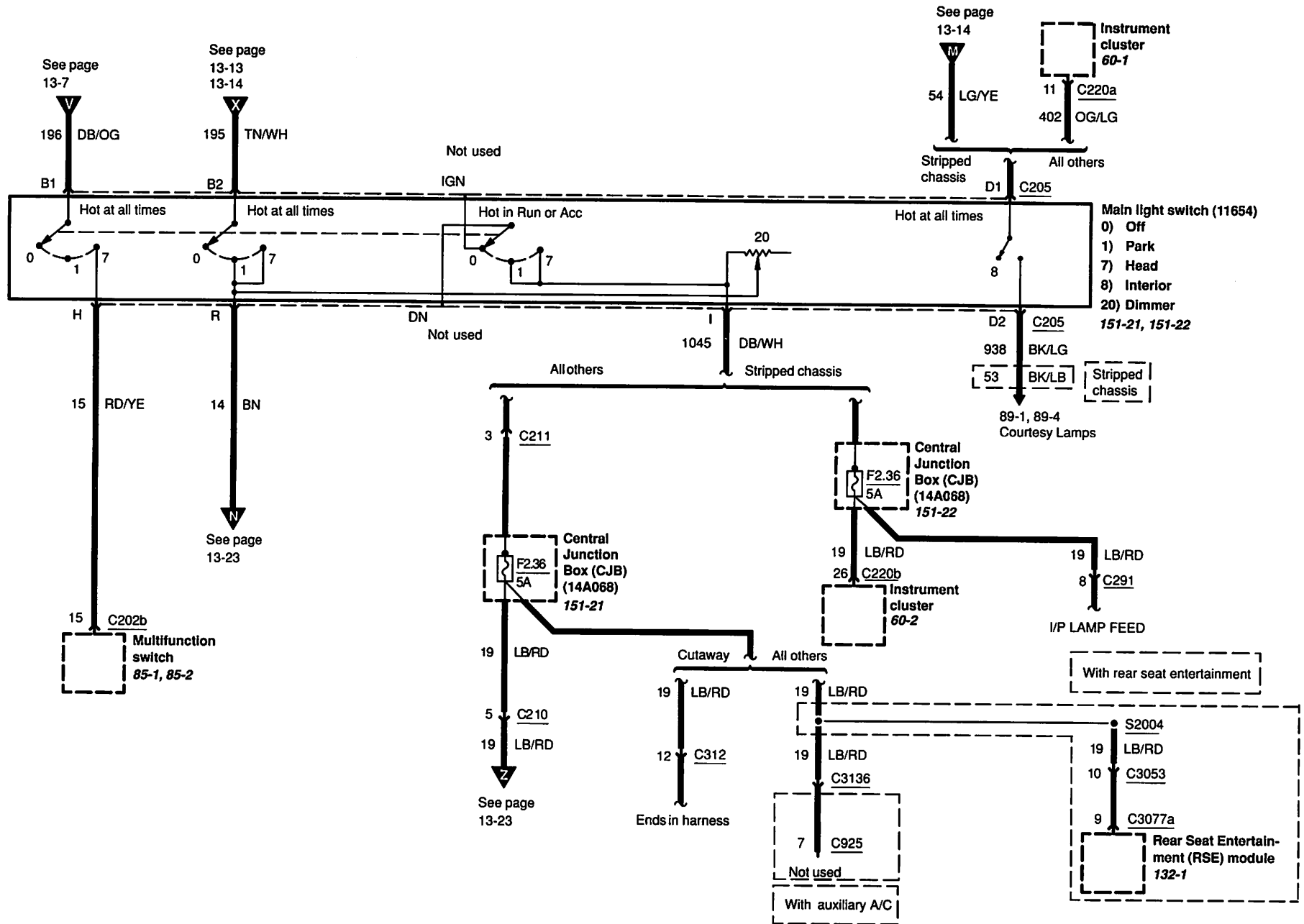
F2.3, F2.9, F2.15, F2.21

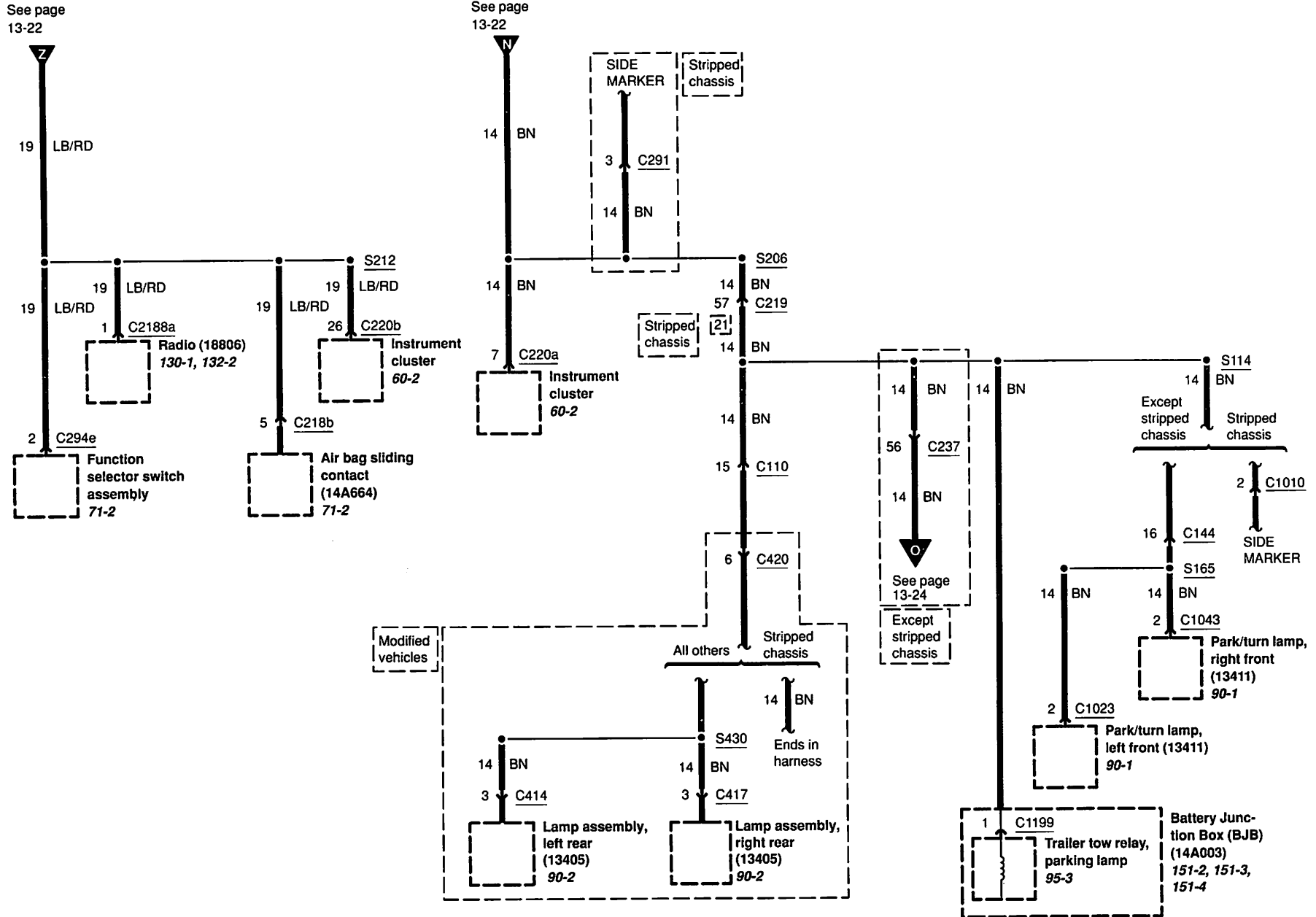


F2.3, F2.43

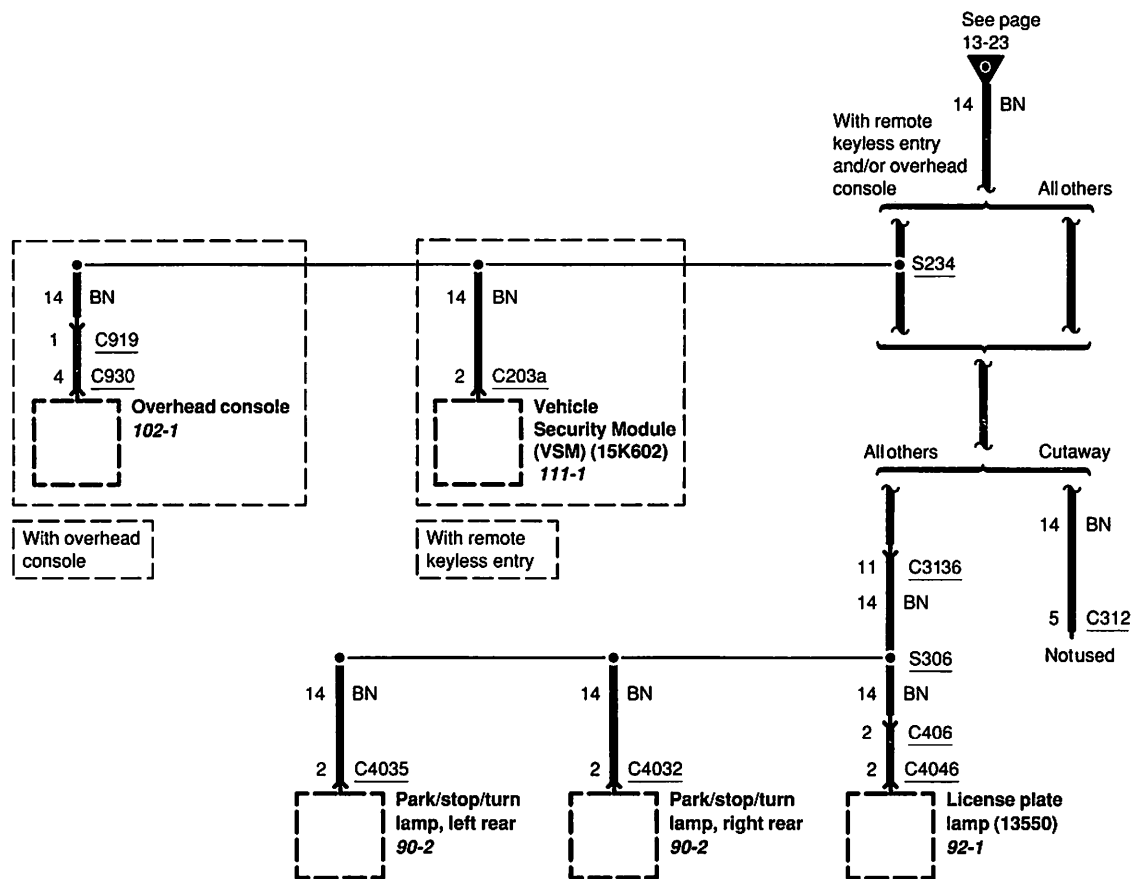


F2.36

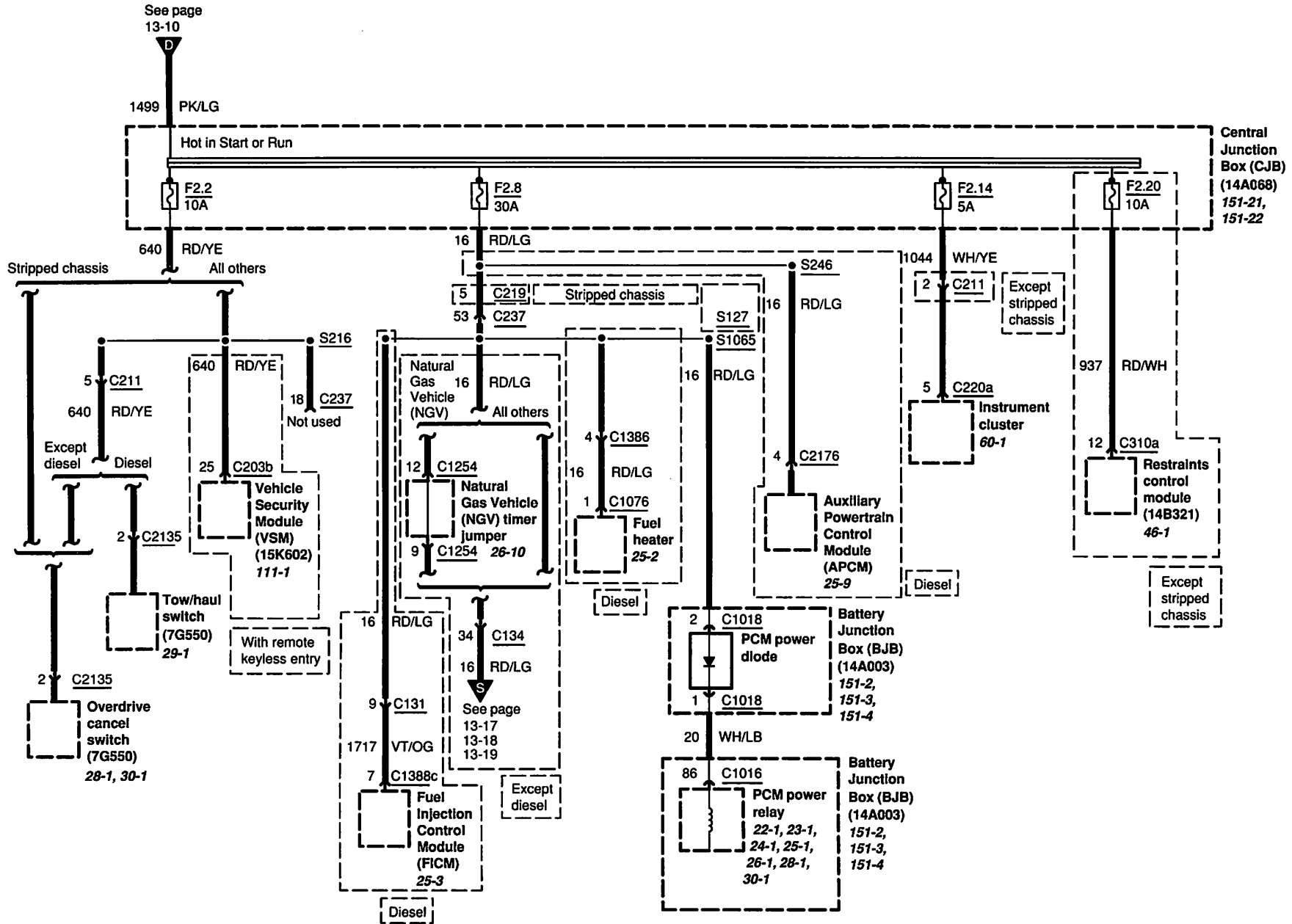




Except stripped chassis



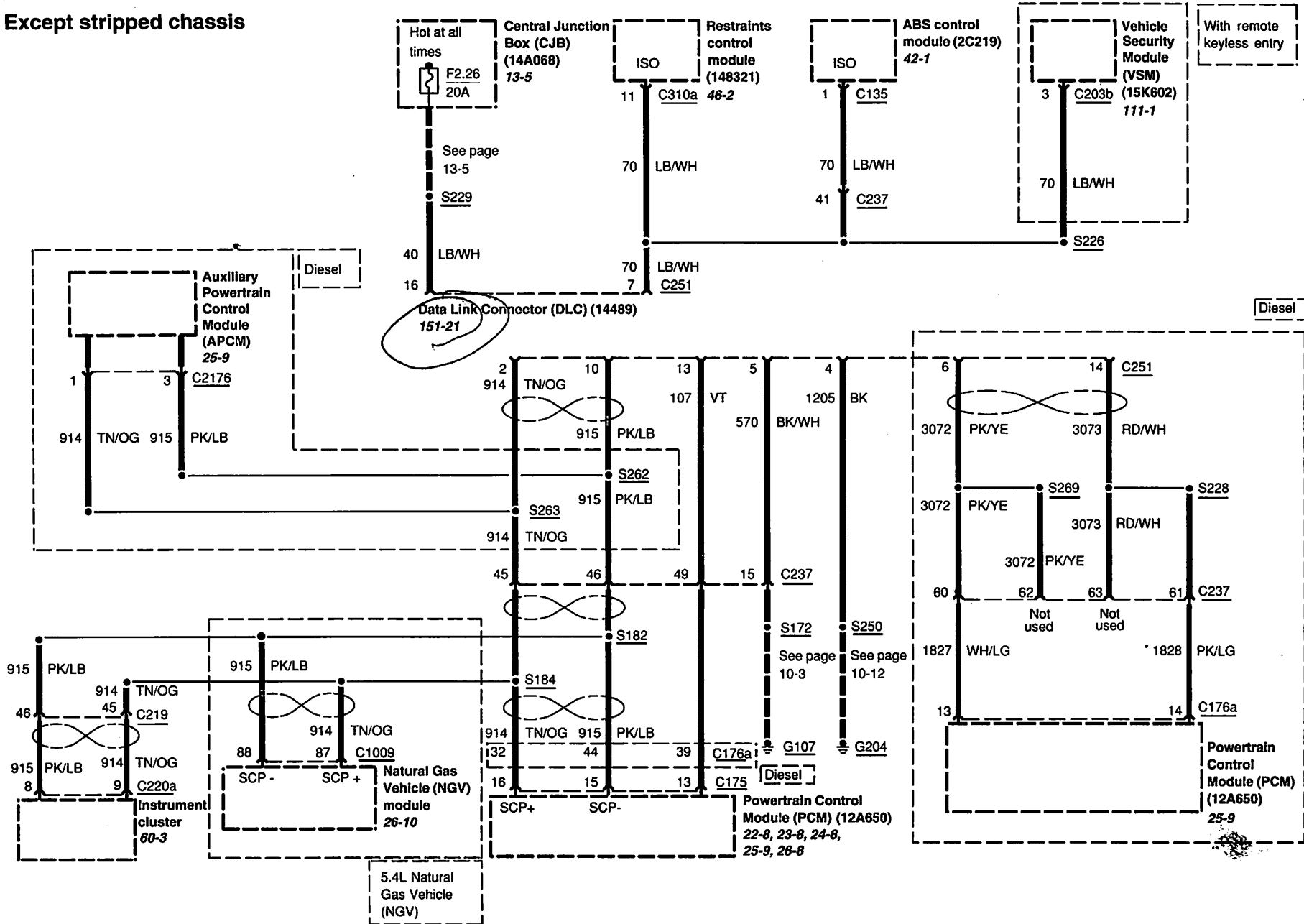
F2.2, F2.8, F2.14, F2.20



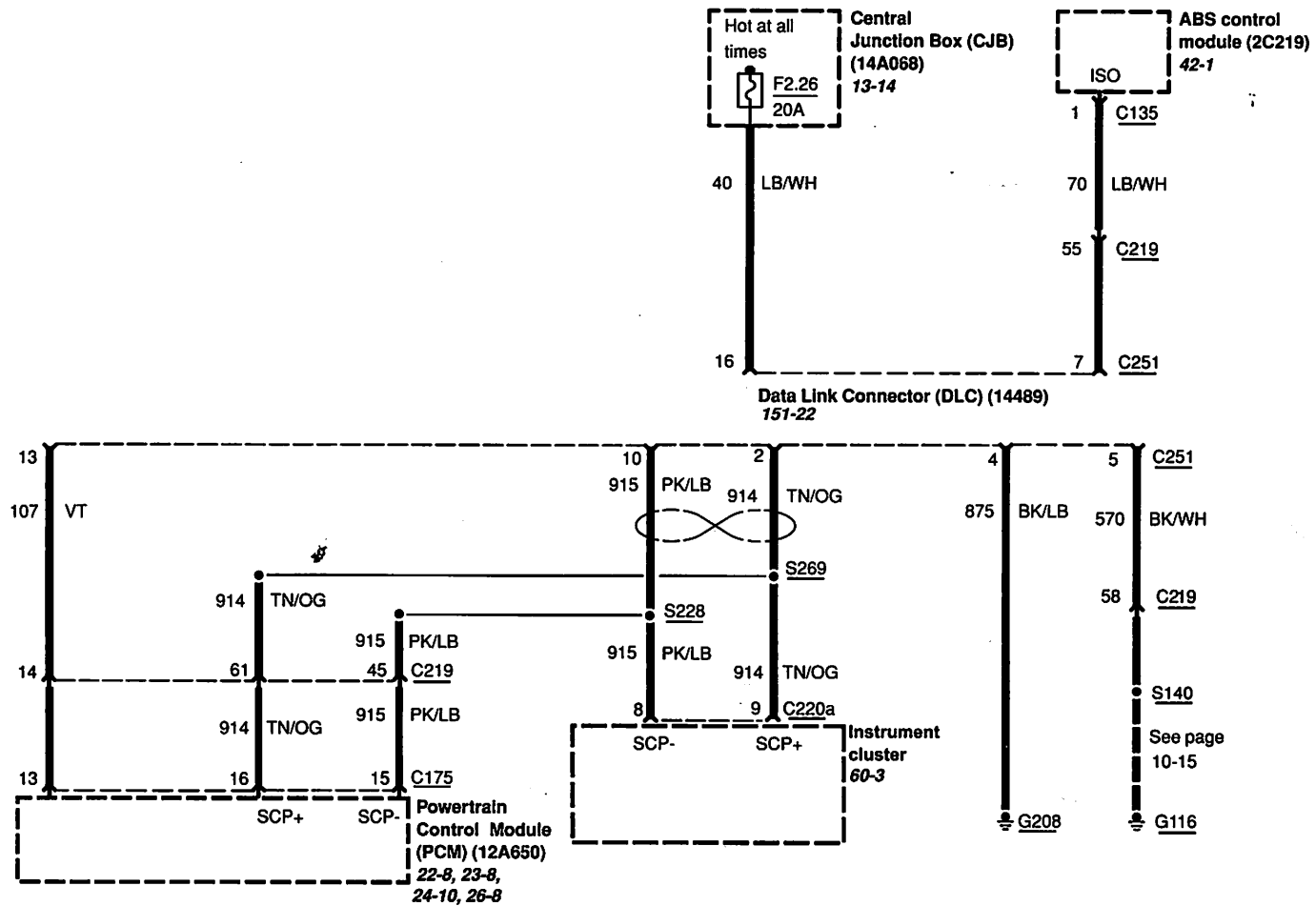
Notes

14-1 Module Communications Network

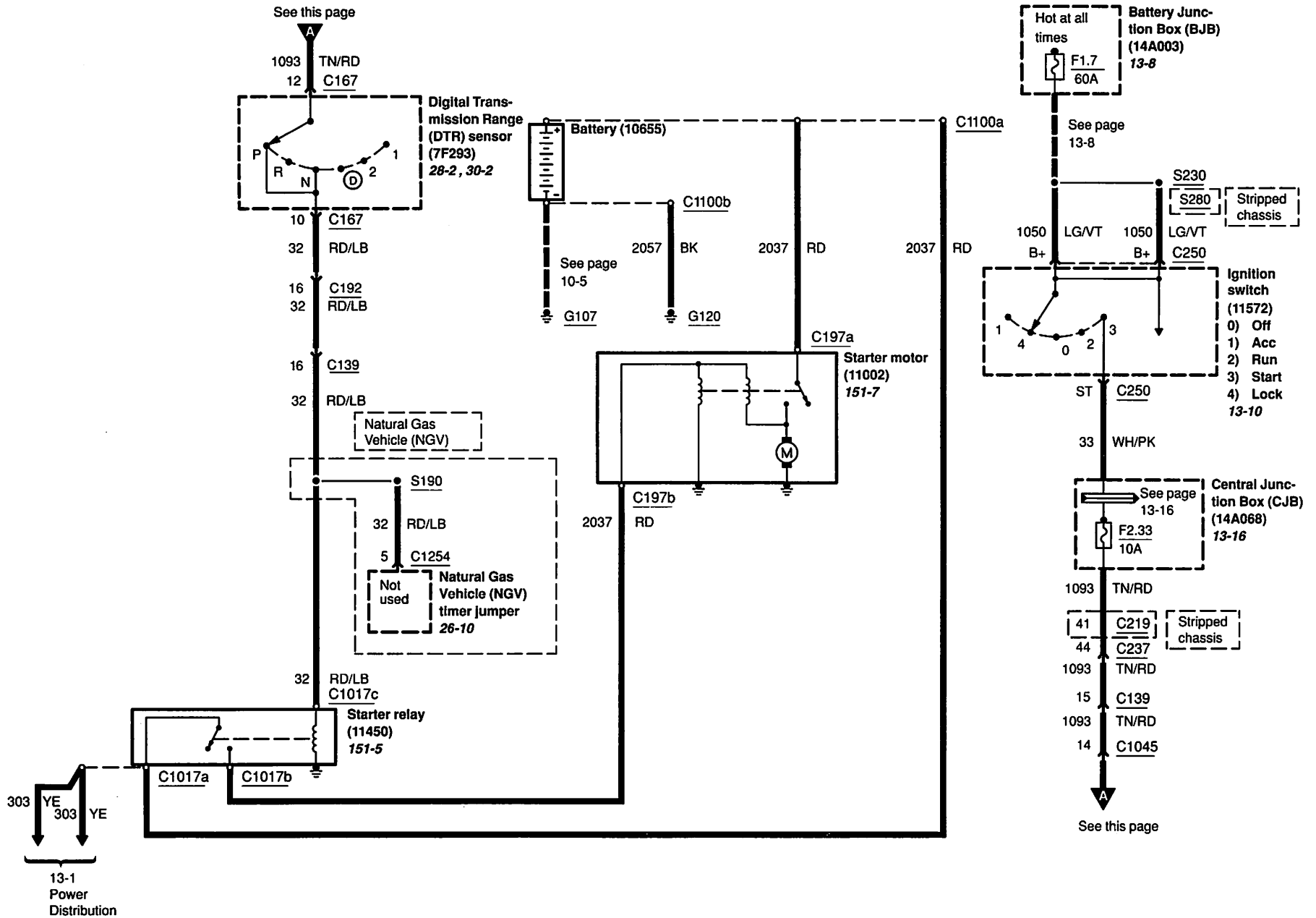
Except stripped chassis



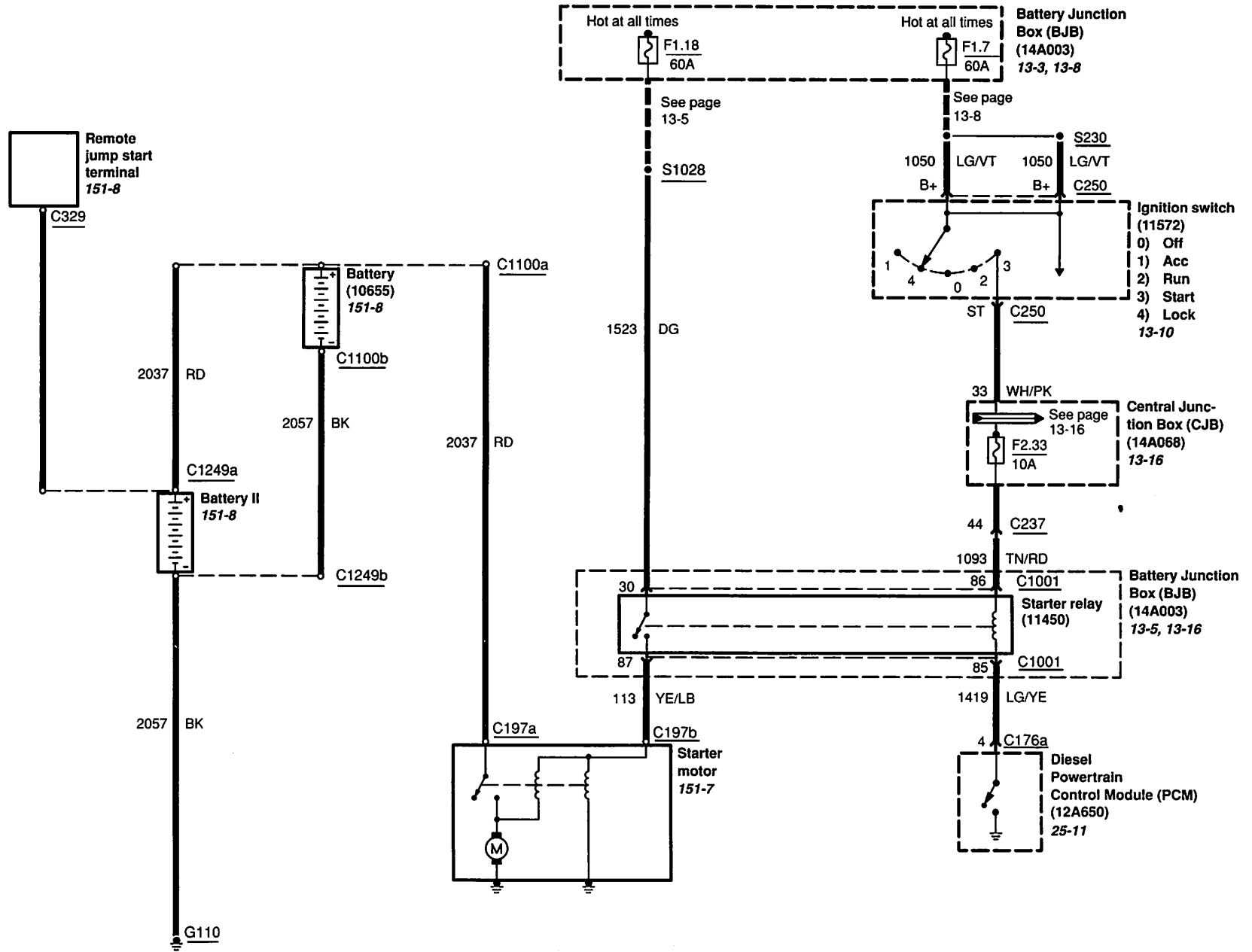
Stripped chassis



except diesel

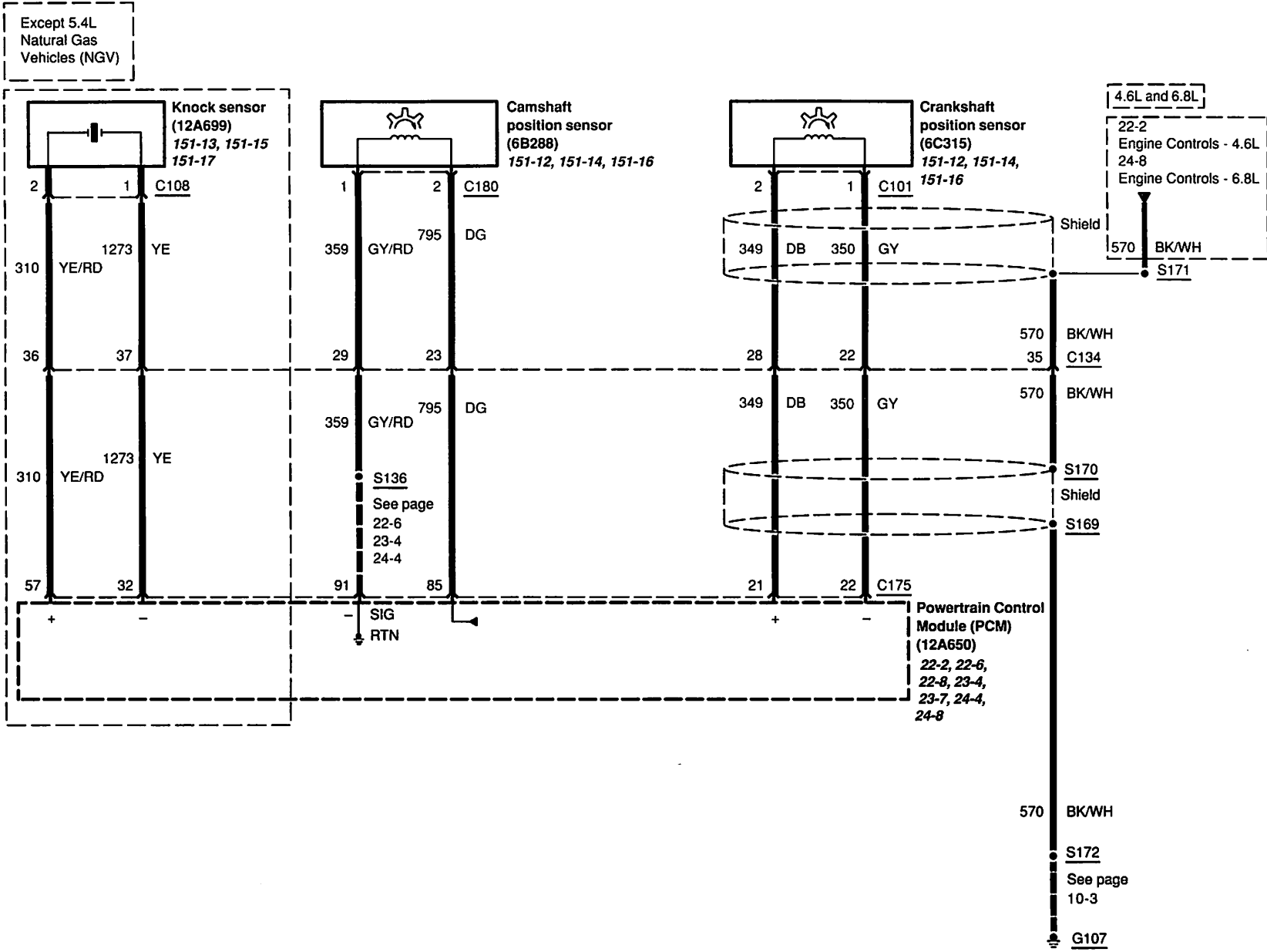


Diesel

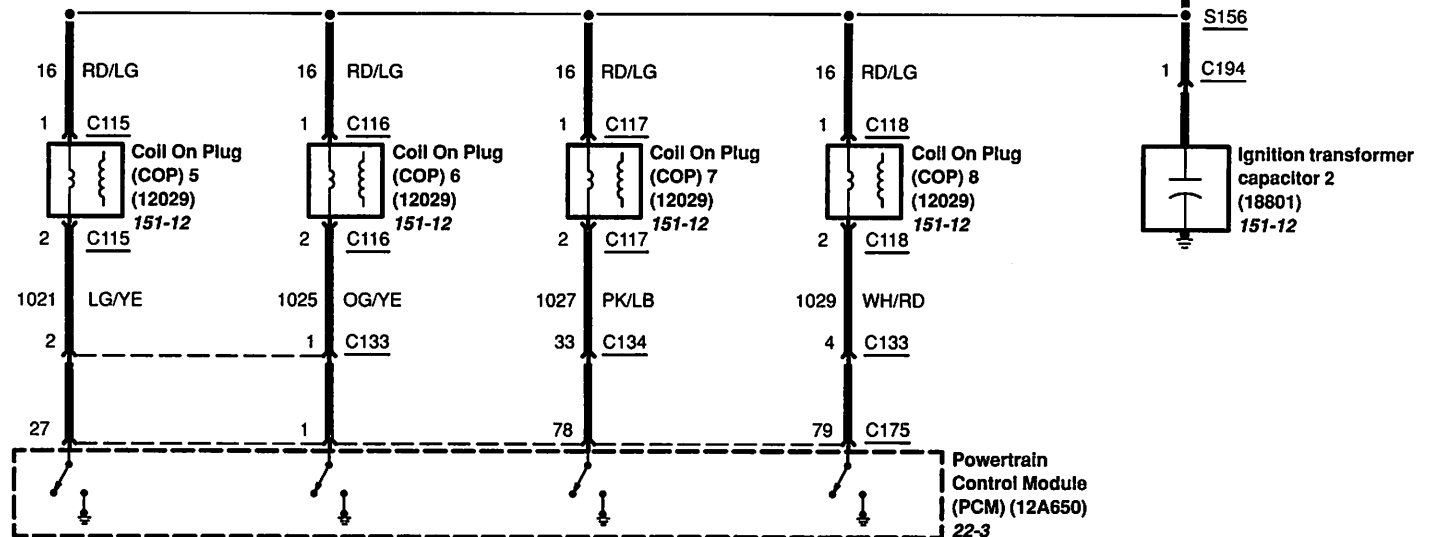
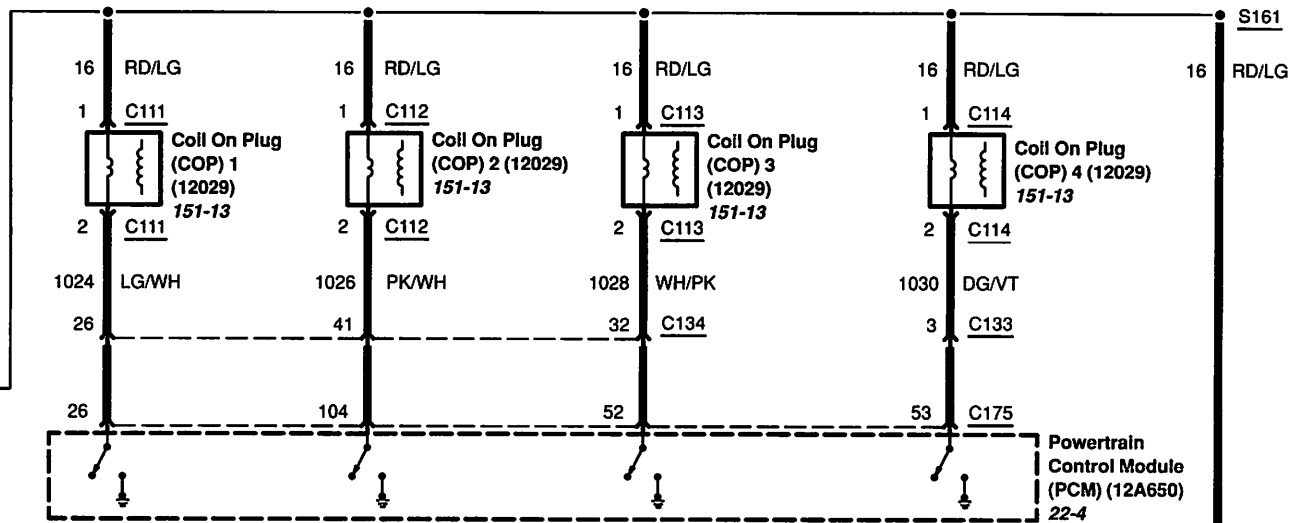
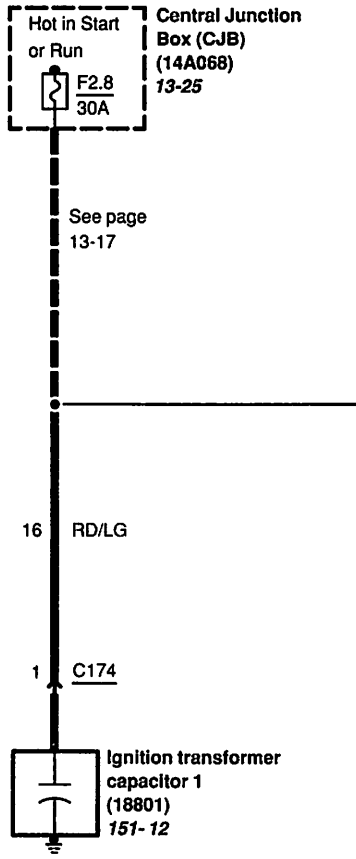


21-1 Engine Ignition

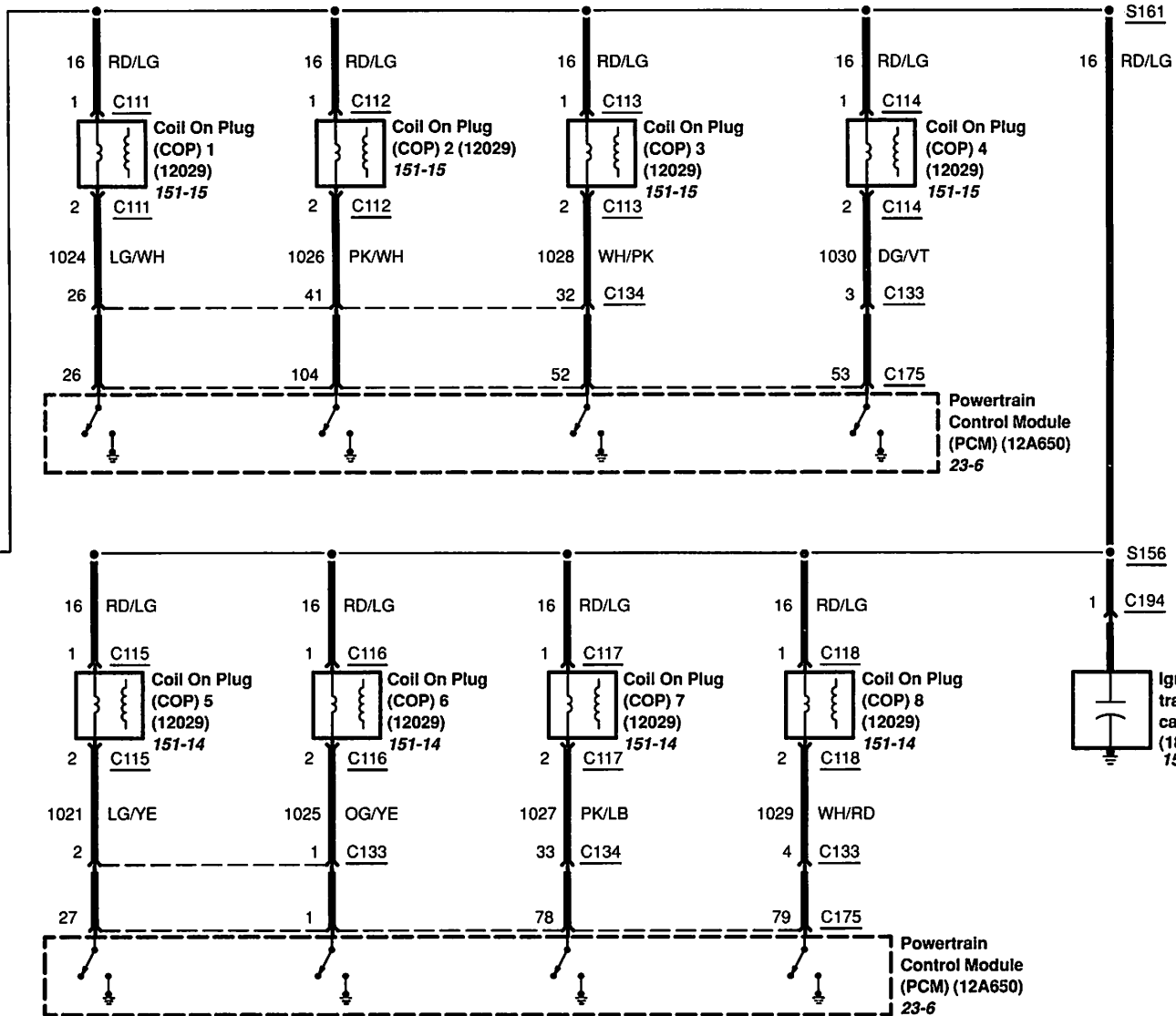
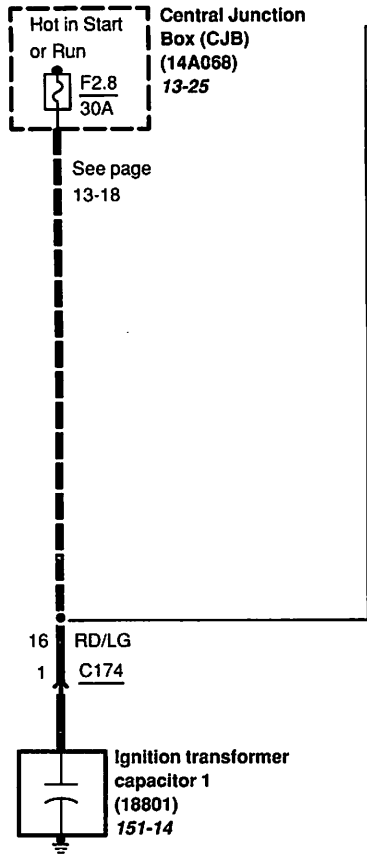
4.6L, 5.4L, 6.8L



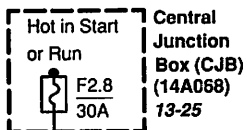
4.6L



5.4L



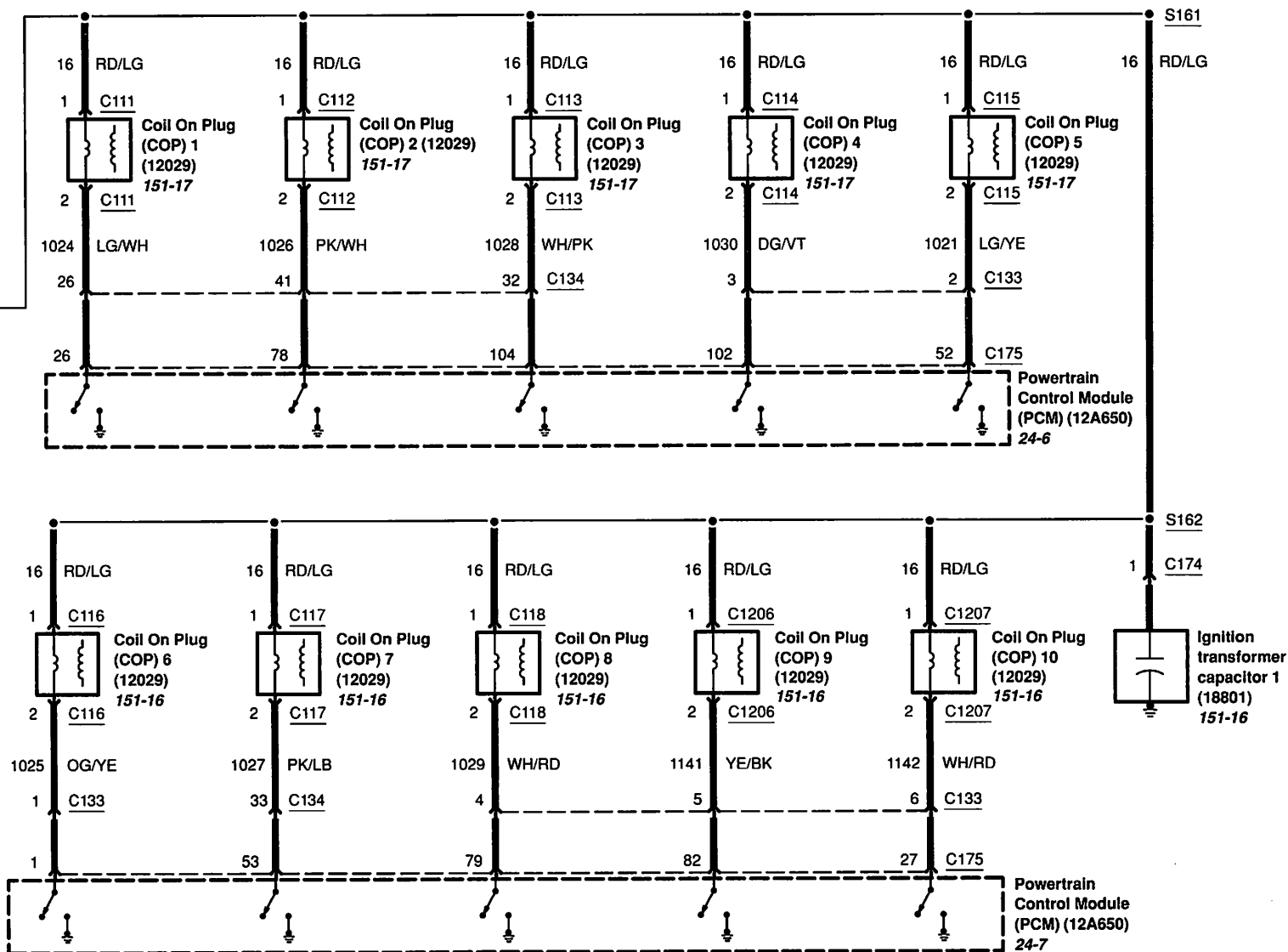
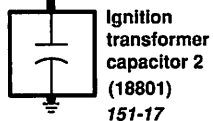
6.8L



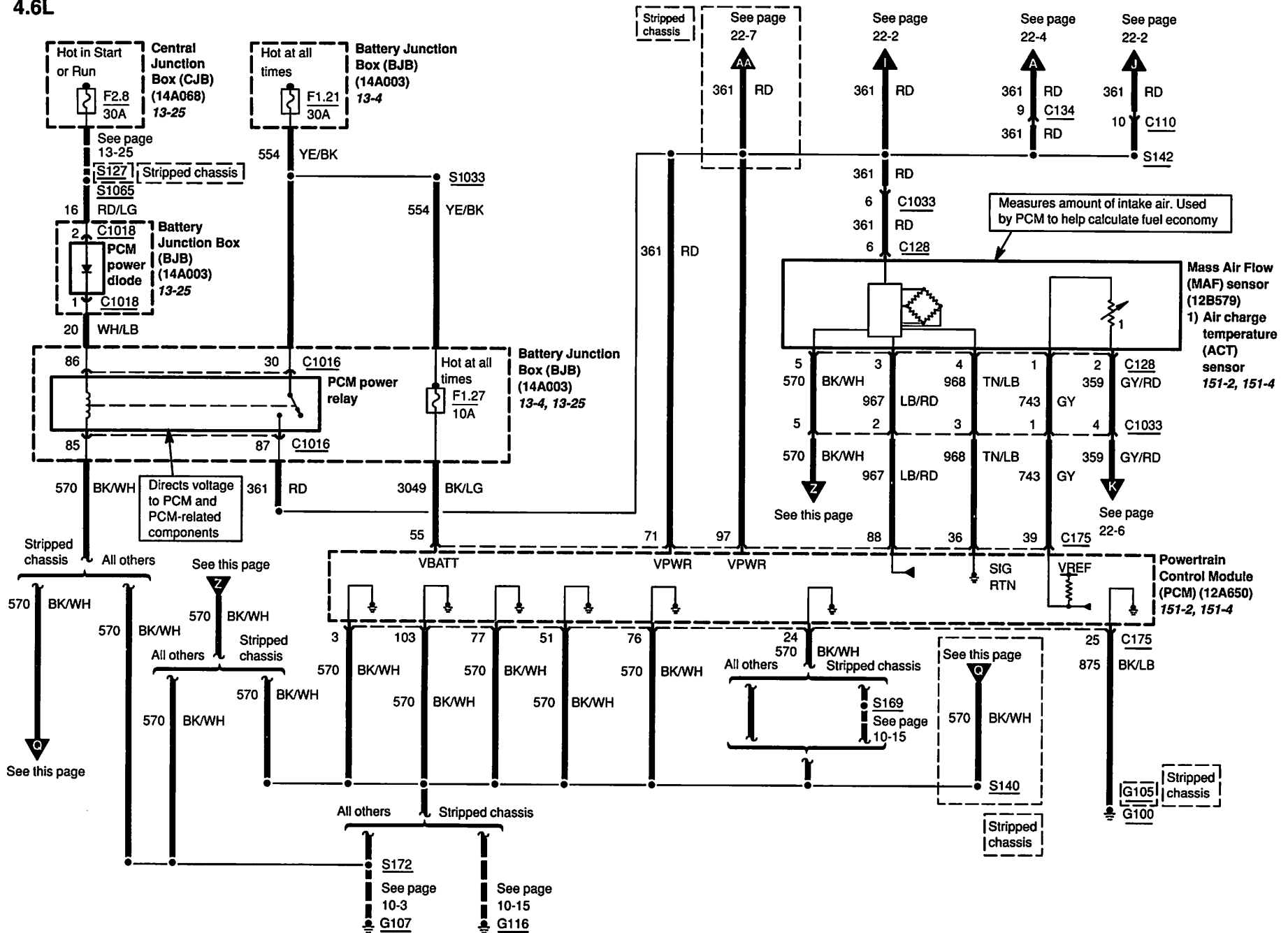
See page 13-19

16 RD/LG

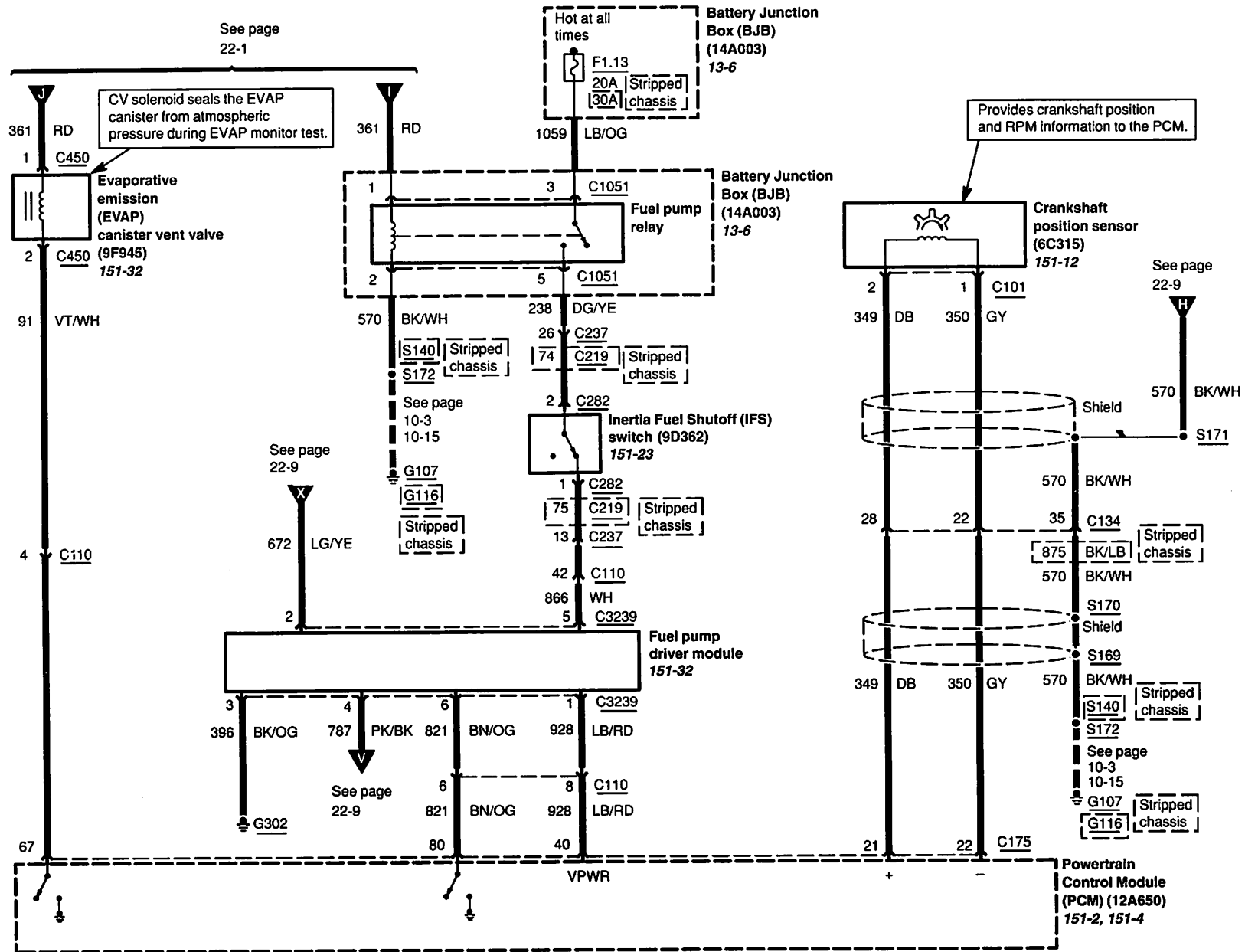
1 C194



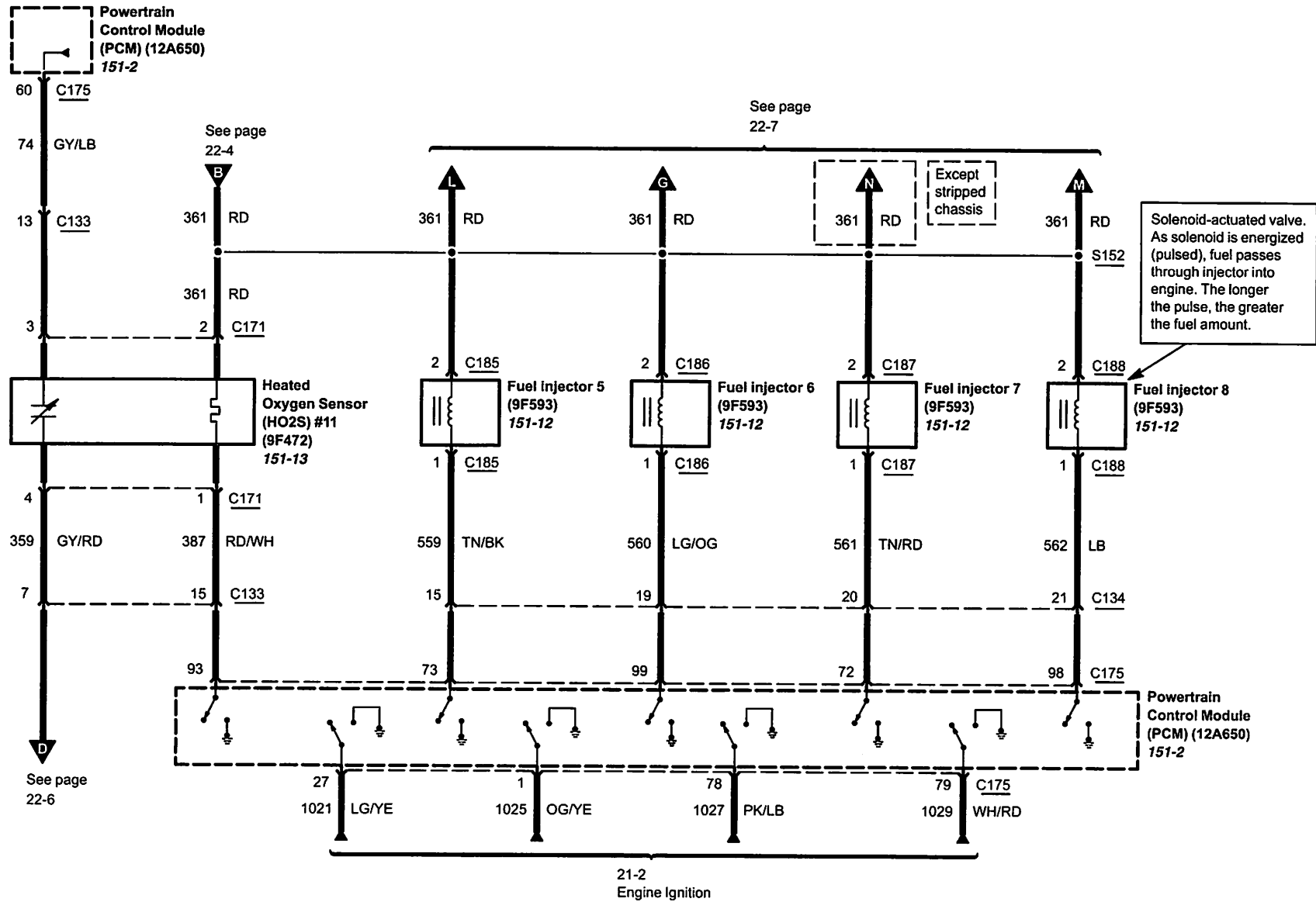
4.6L



4.6L

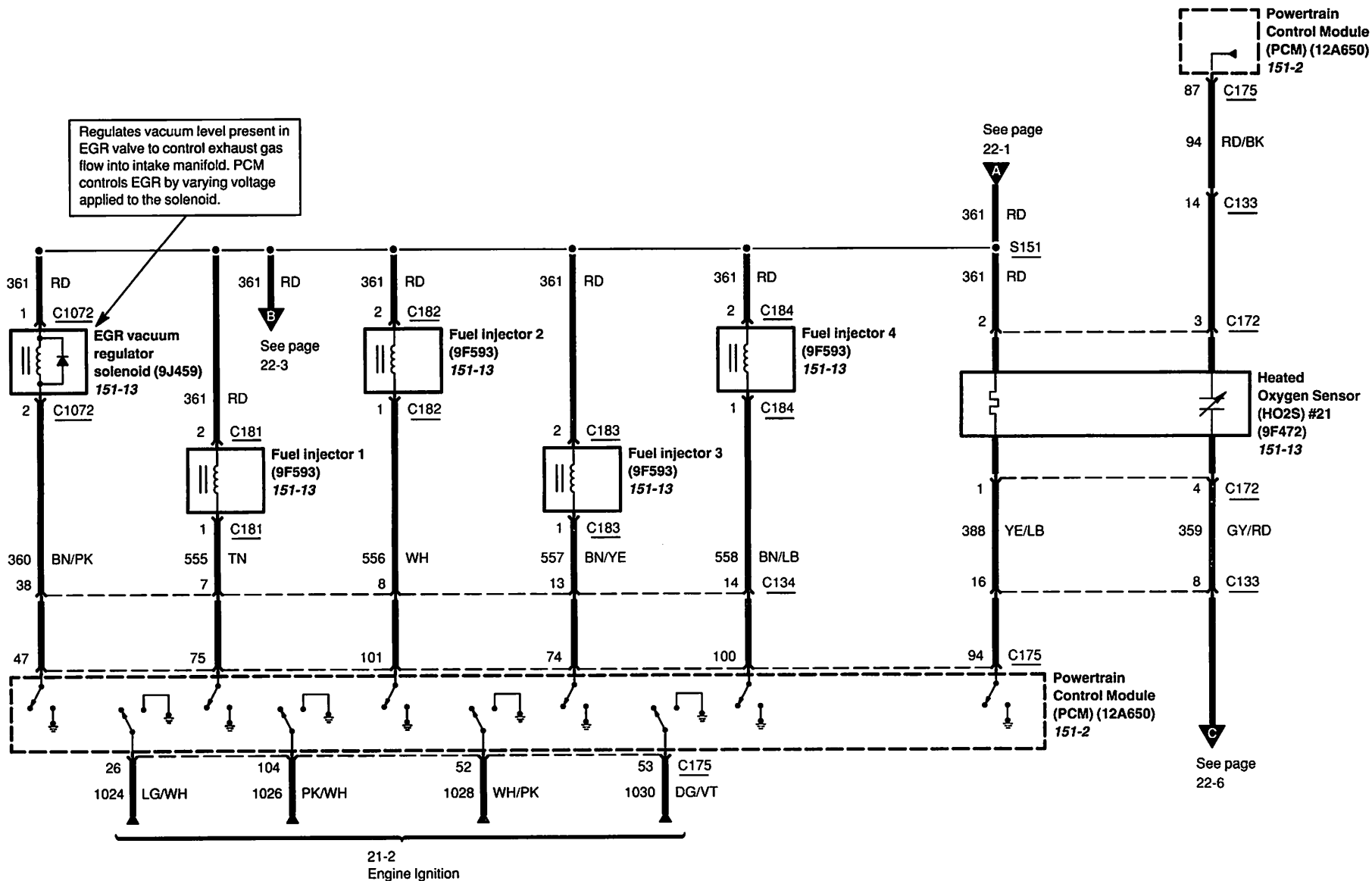


4.6L

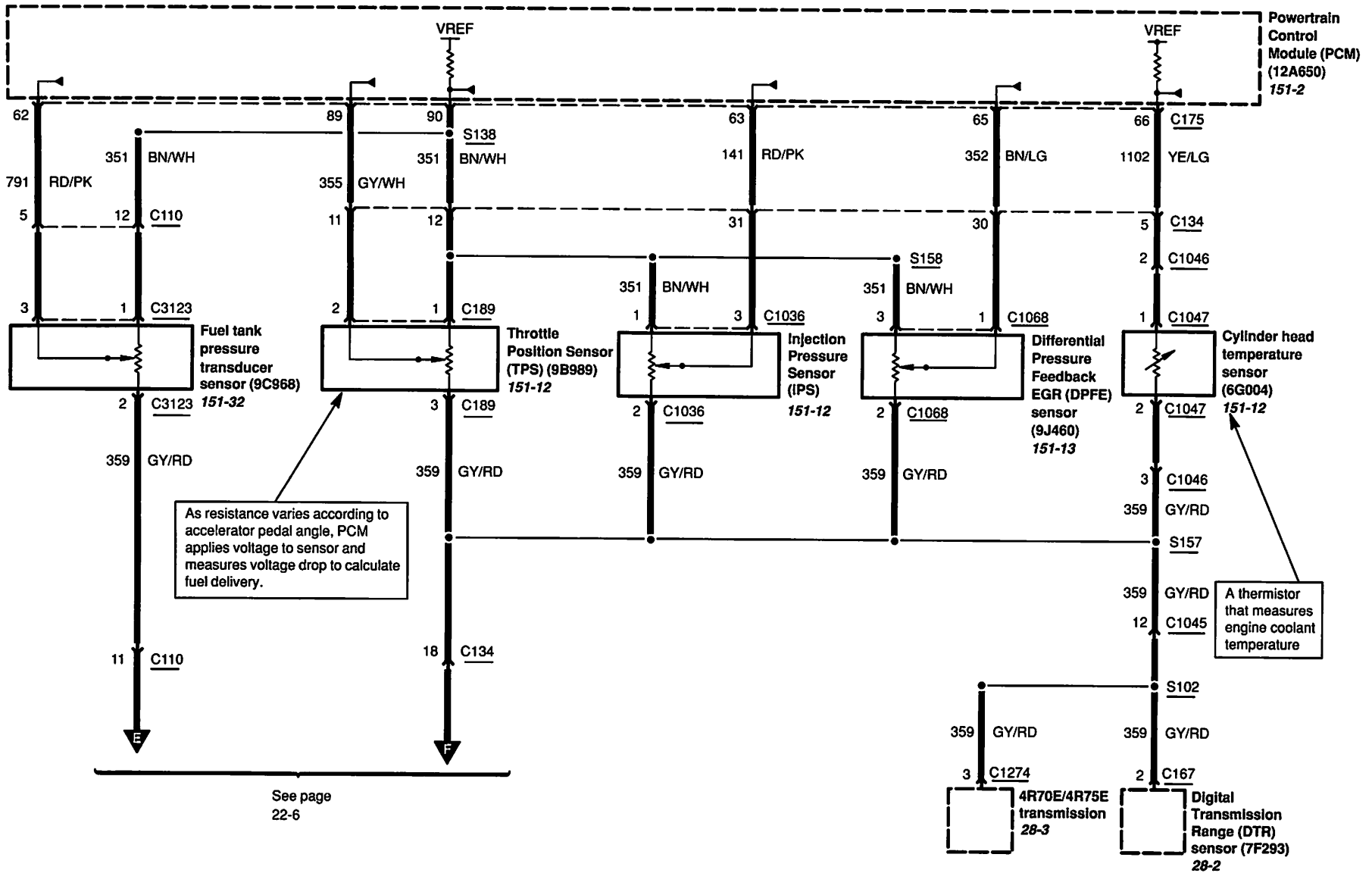


4.6L

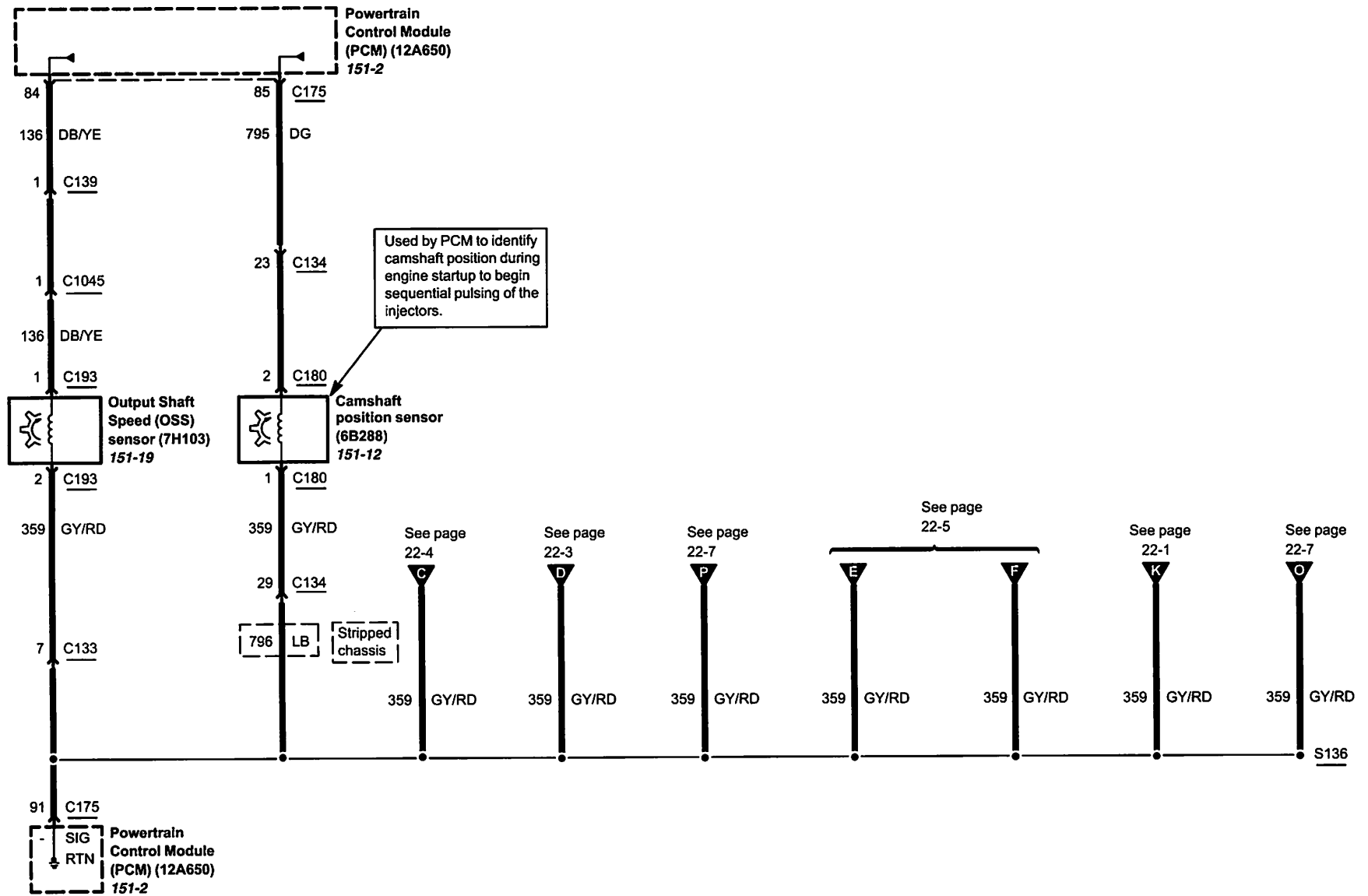
Regulates vacuum level present in EGR valve to control exhaust gas flow into intake manifold. PCM controls EGR by varying voltage applied to the solenoid.



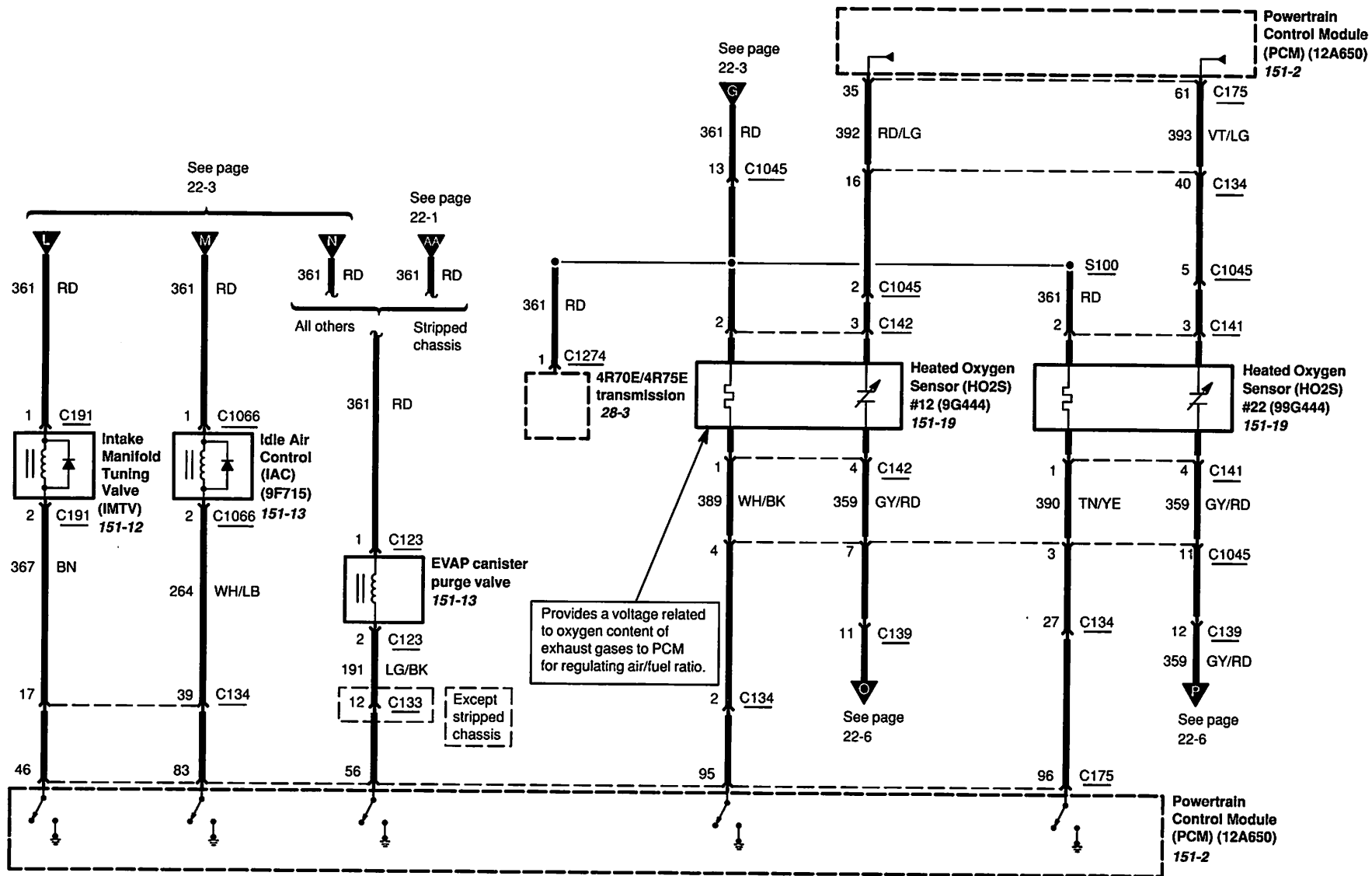
4.6L



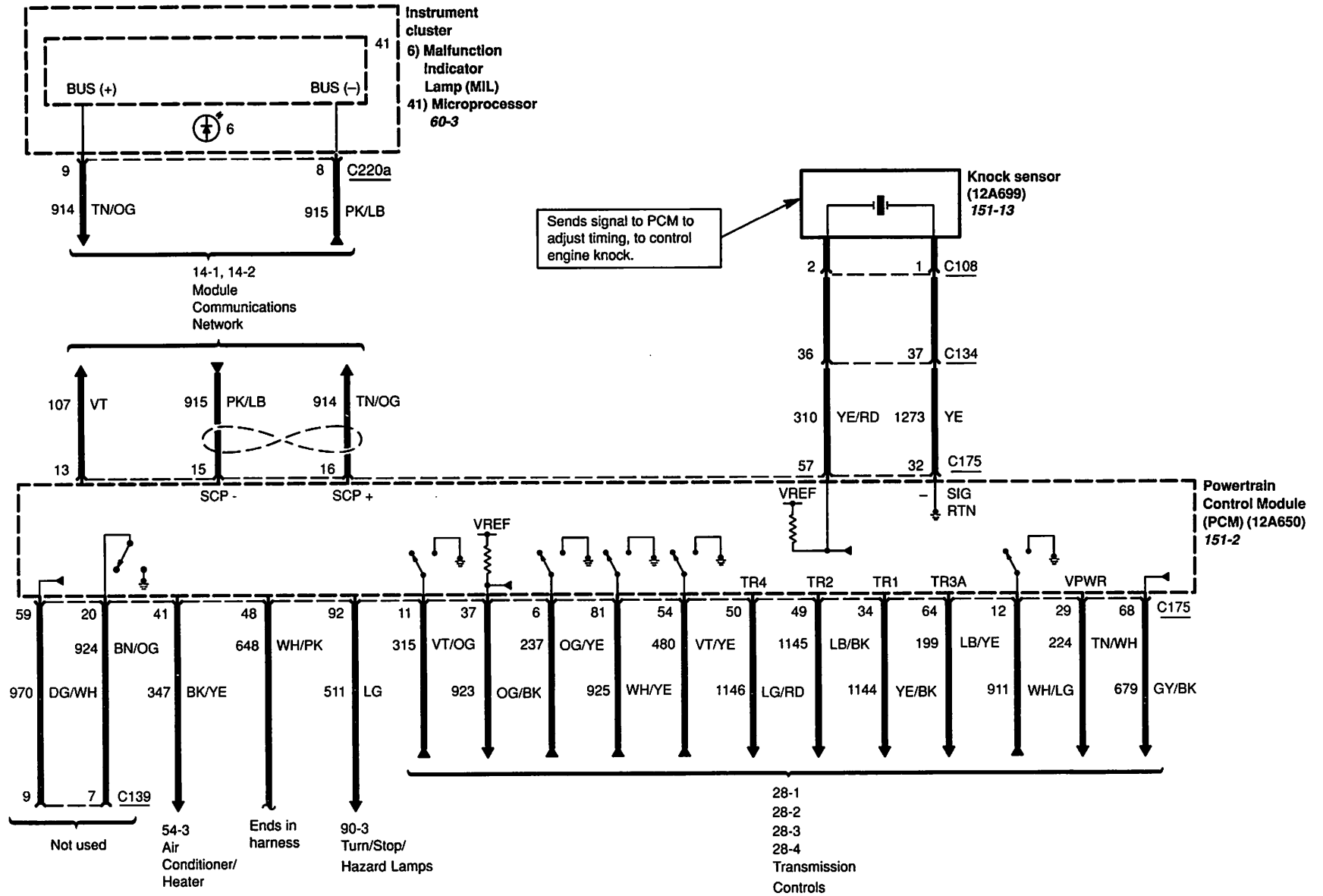
4.6L



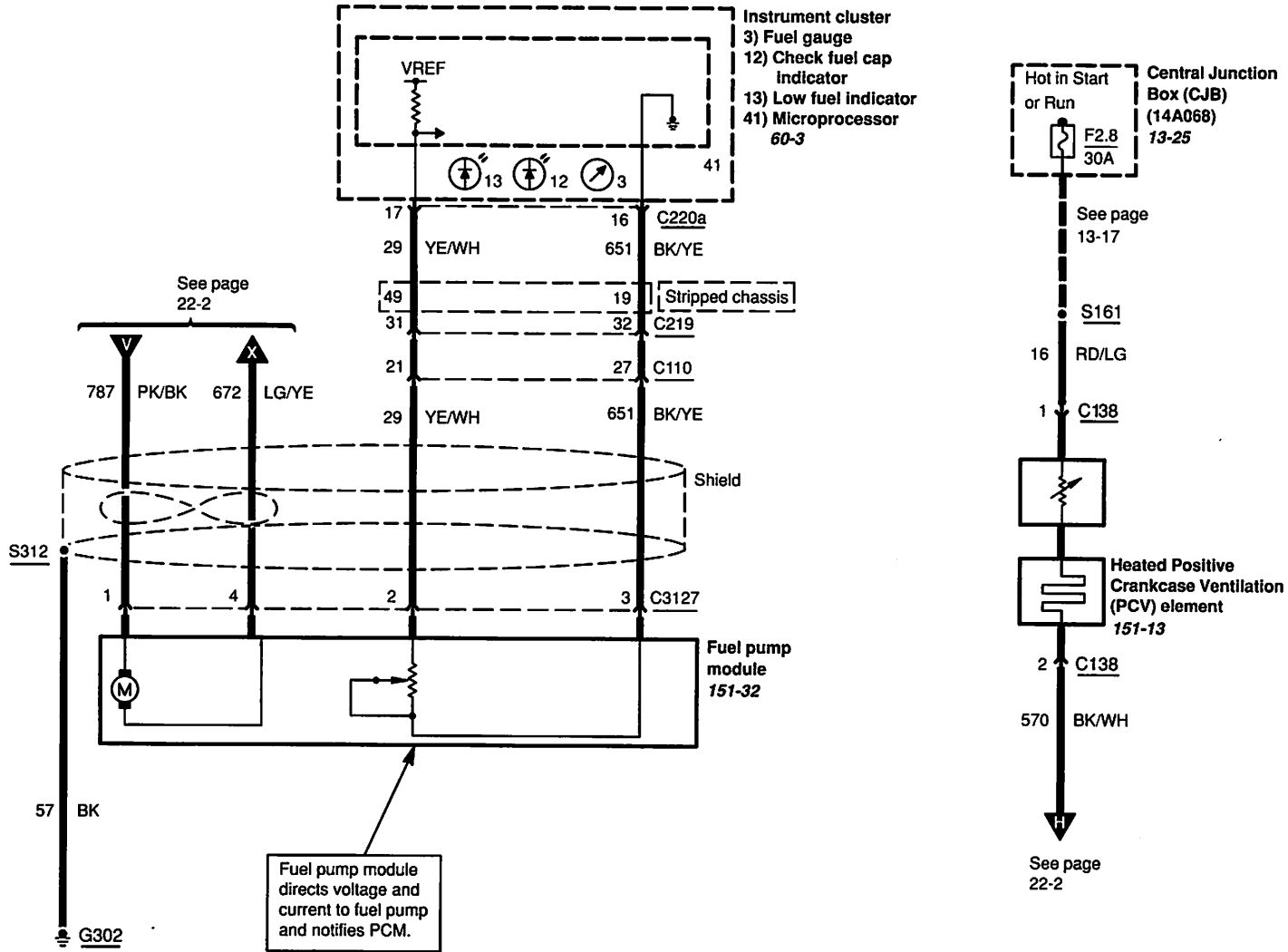
4.6L



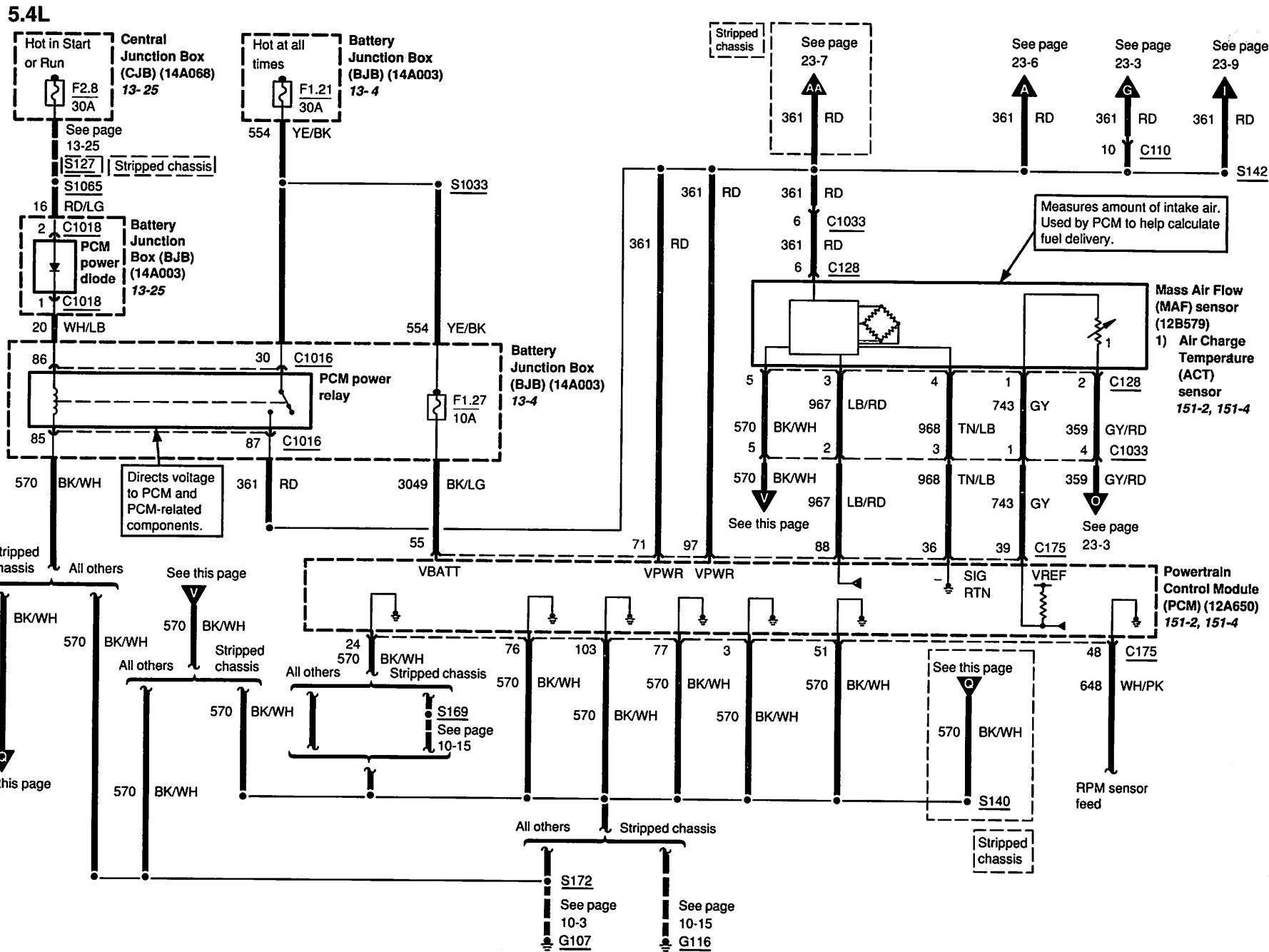
4.6L



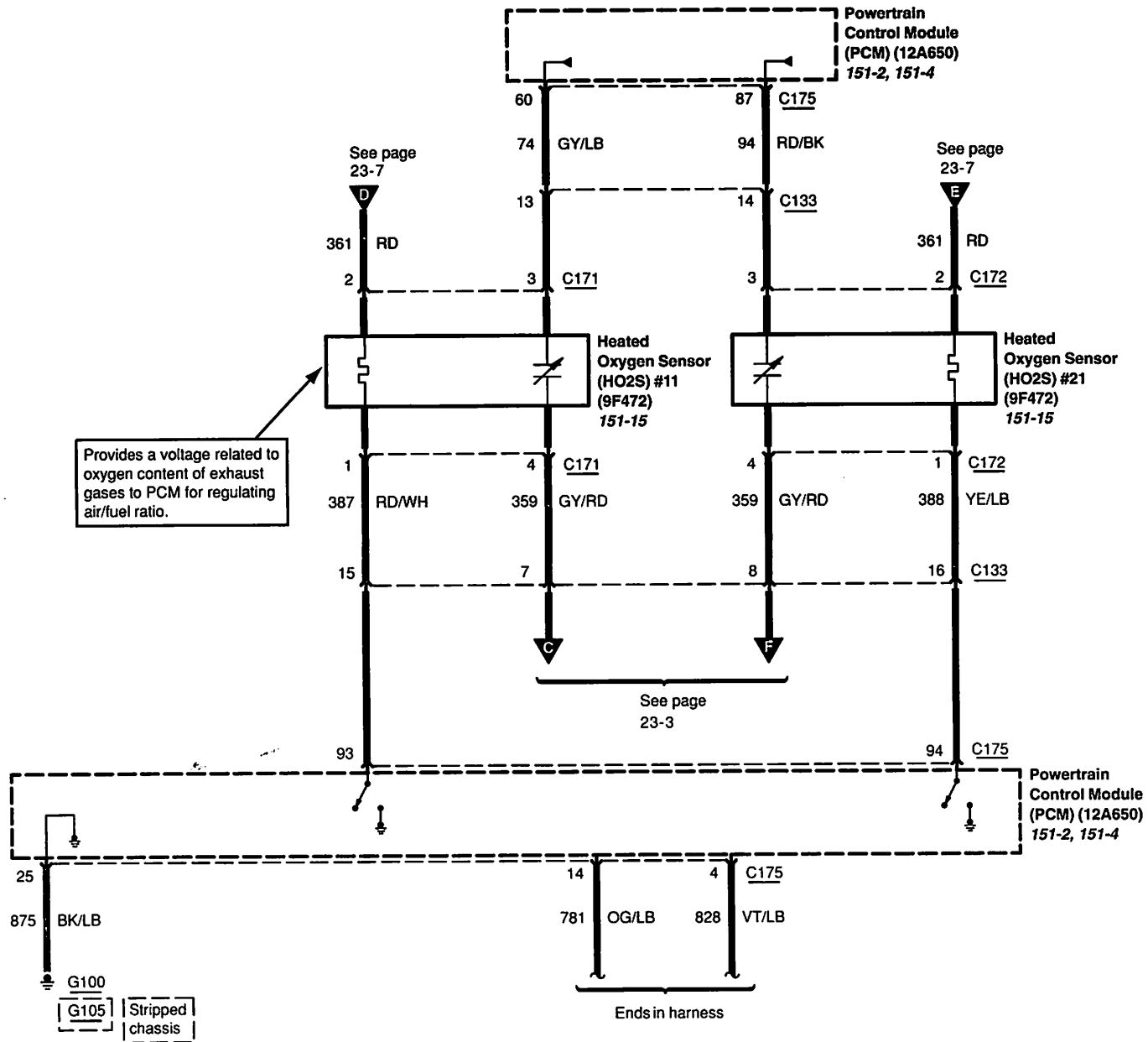
4.6L



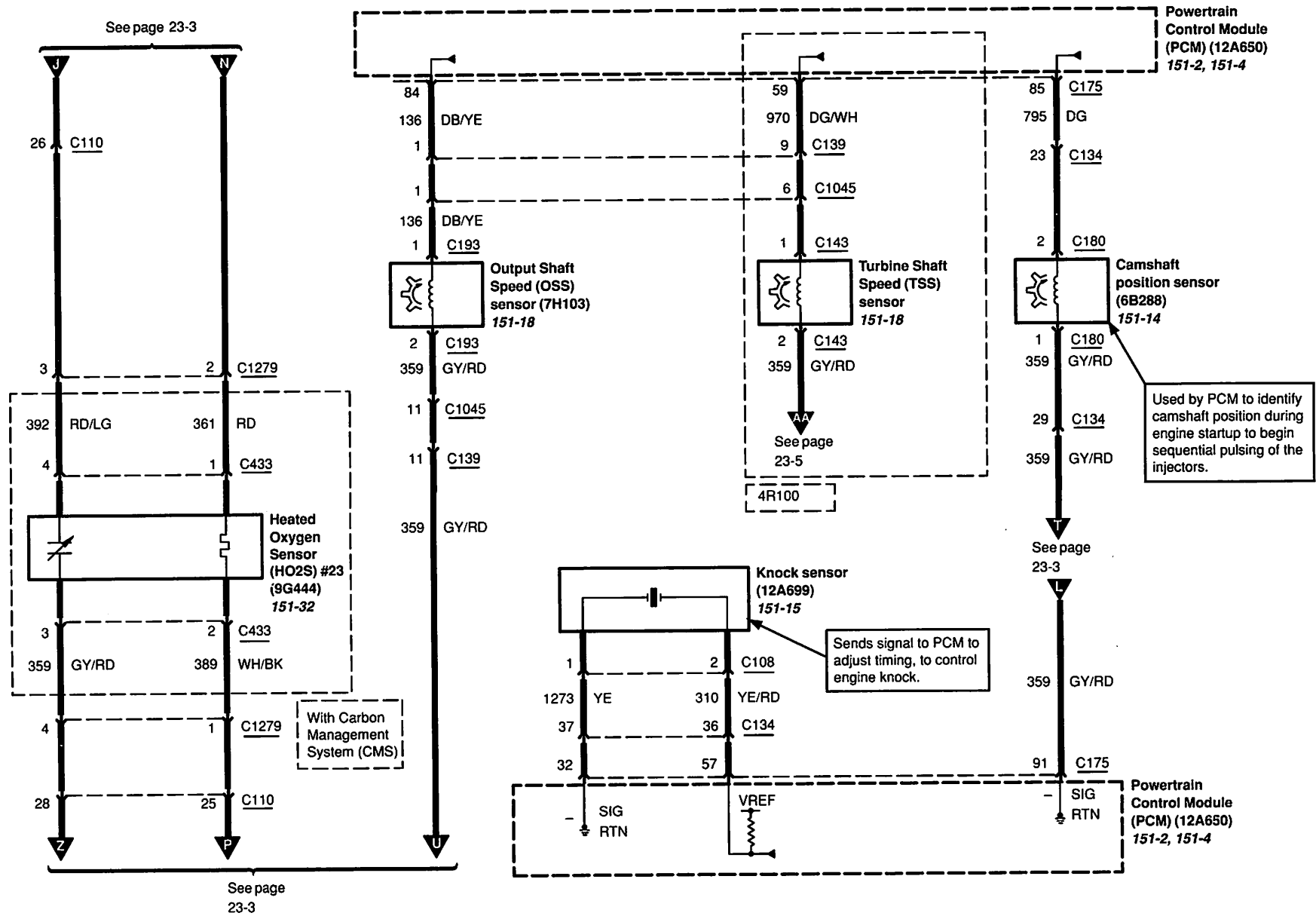
Notes



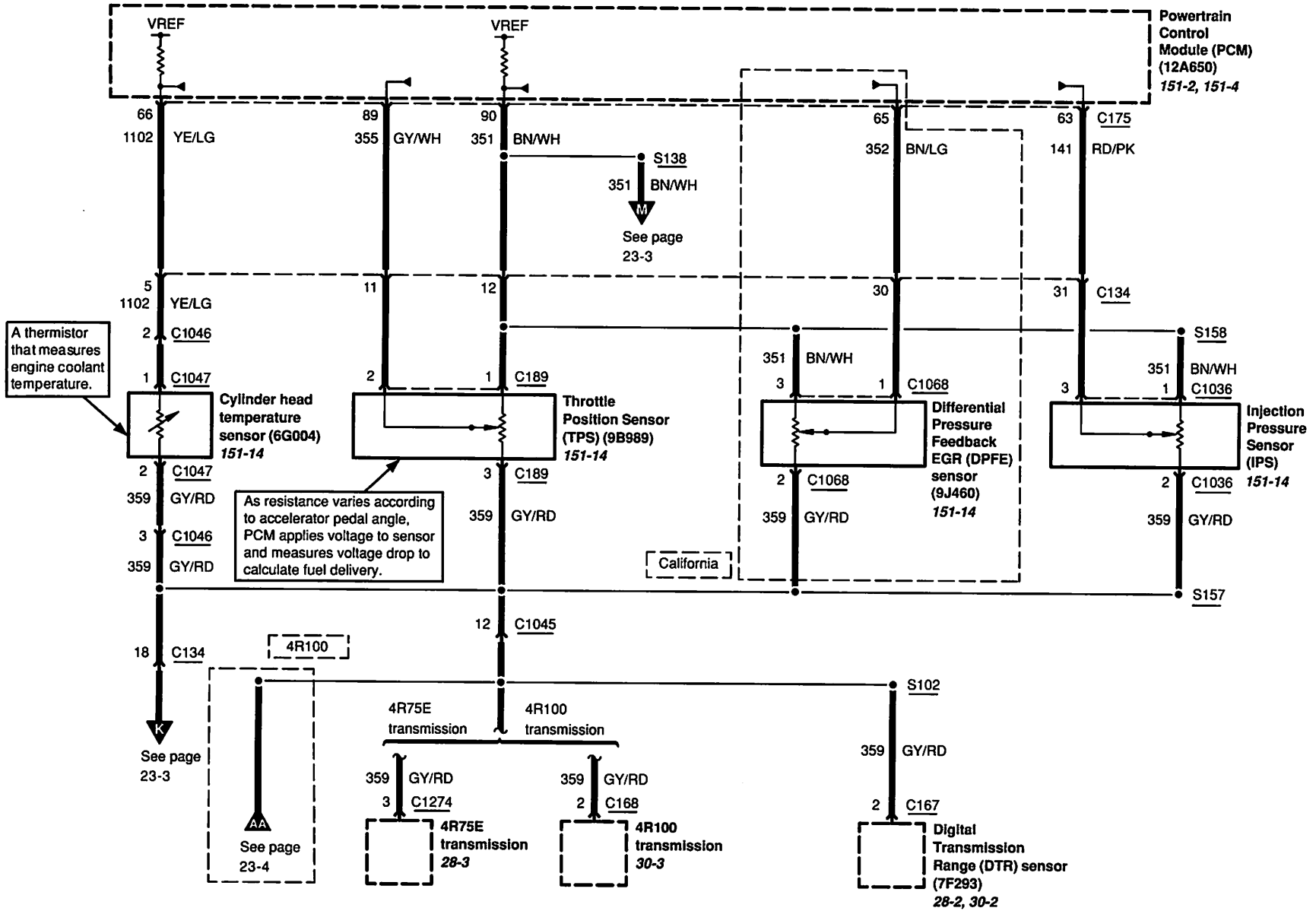
5.4L



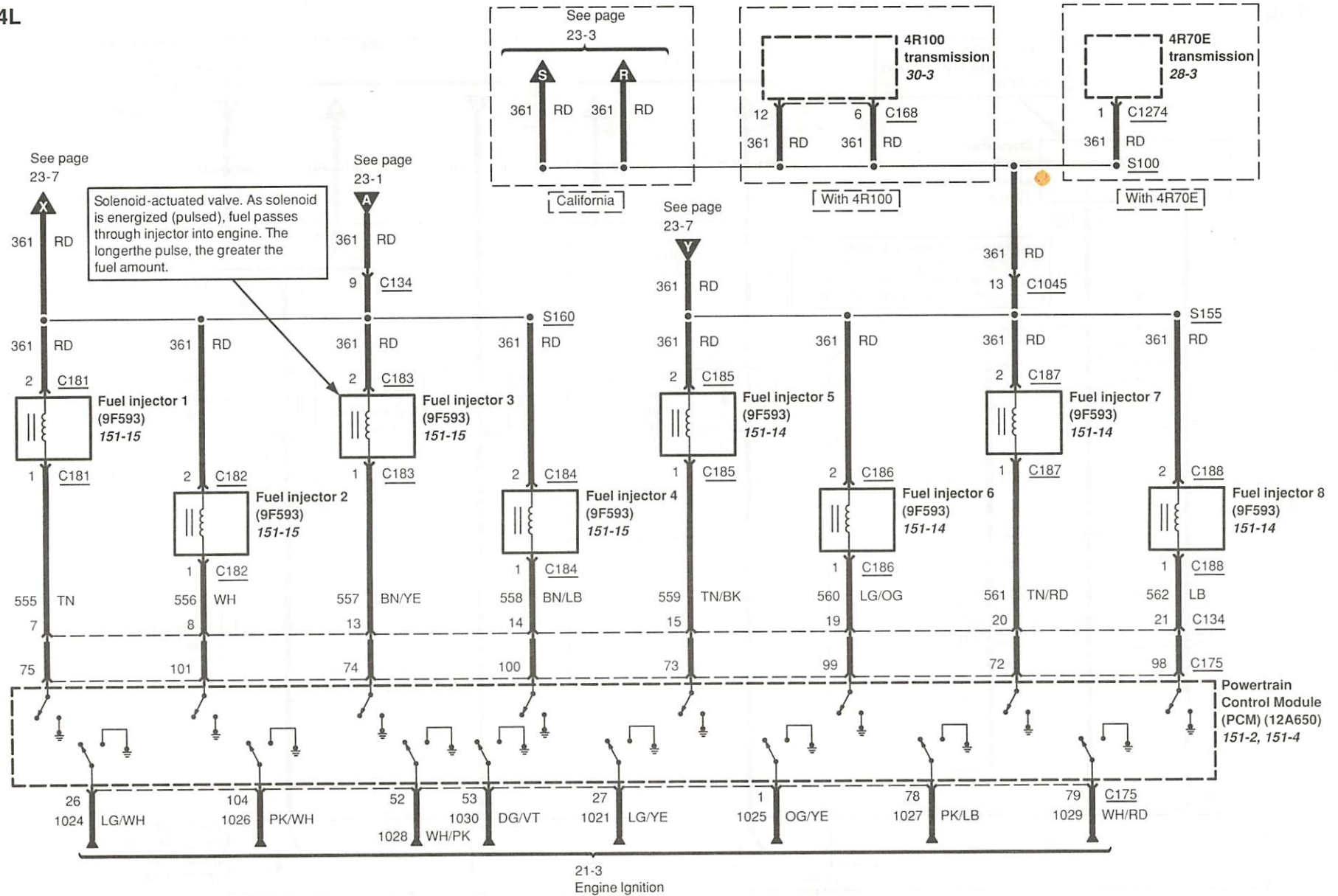
5.4L



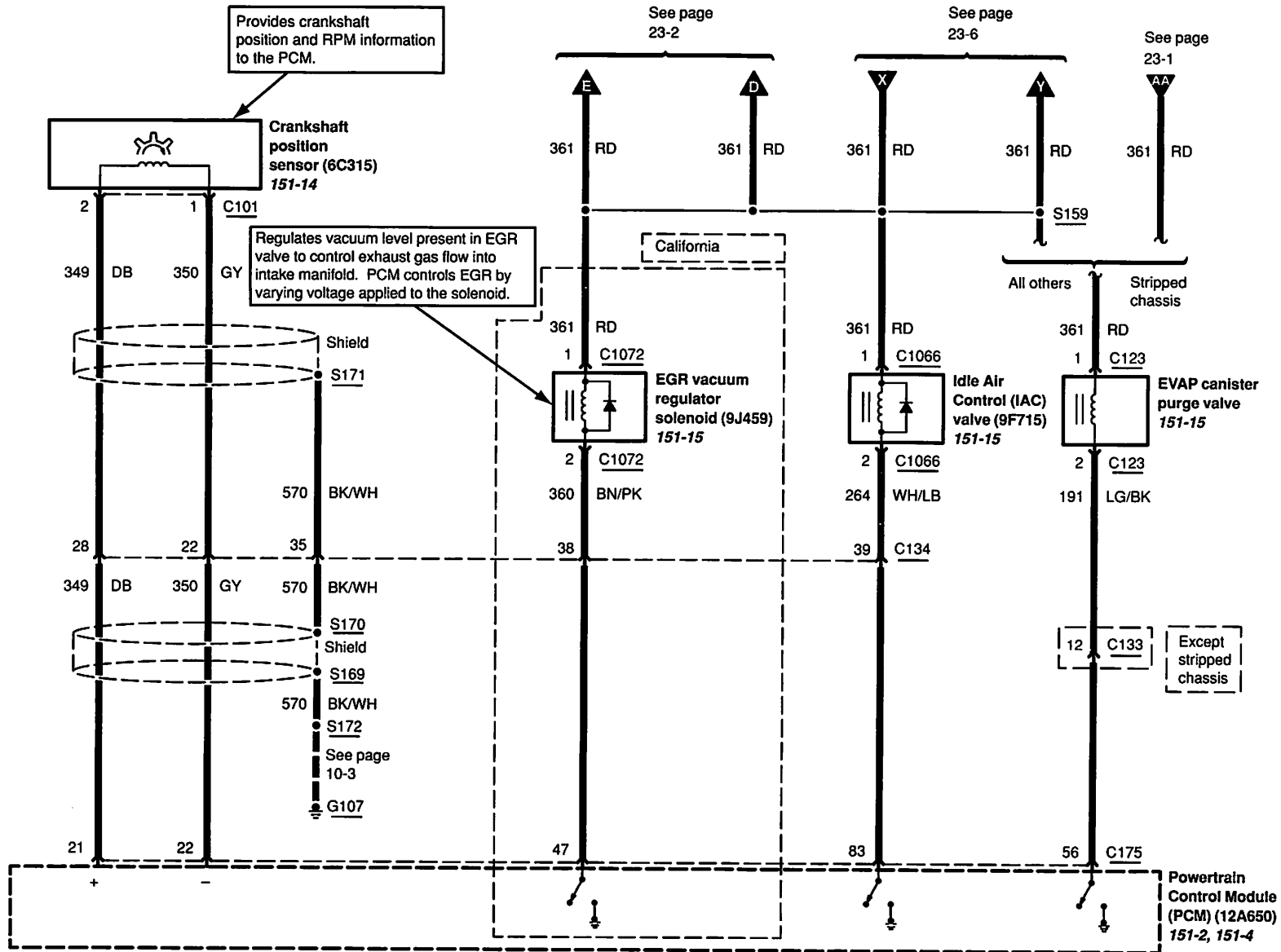
5.4L



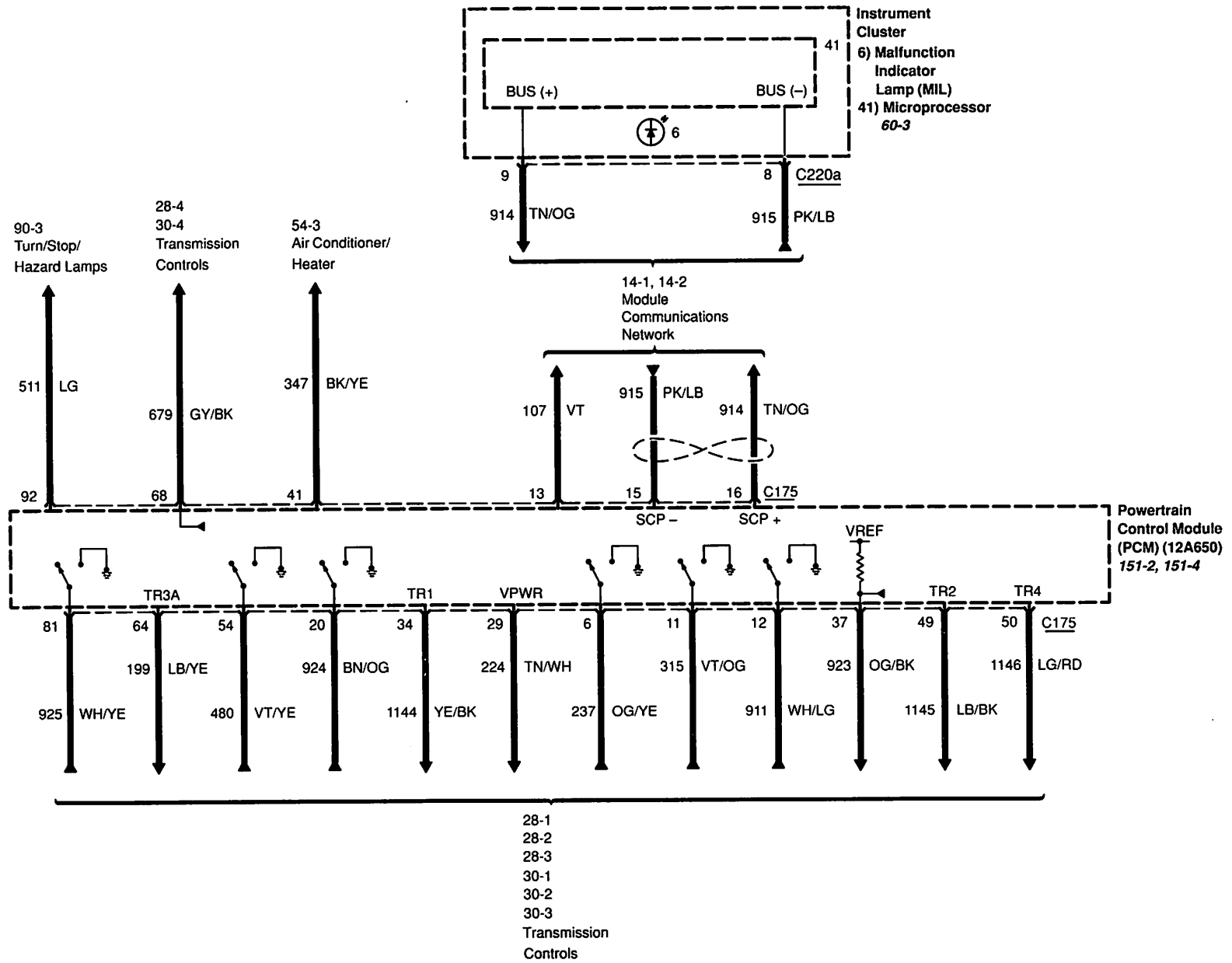
5.4L



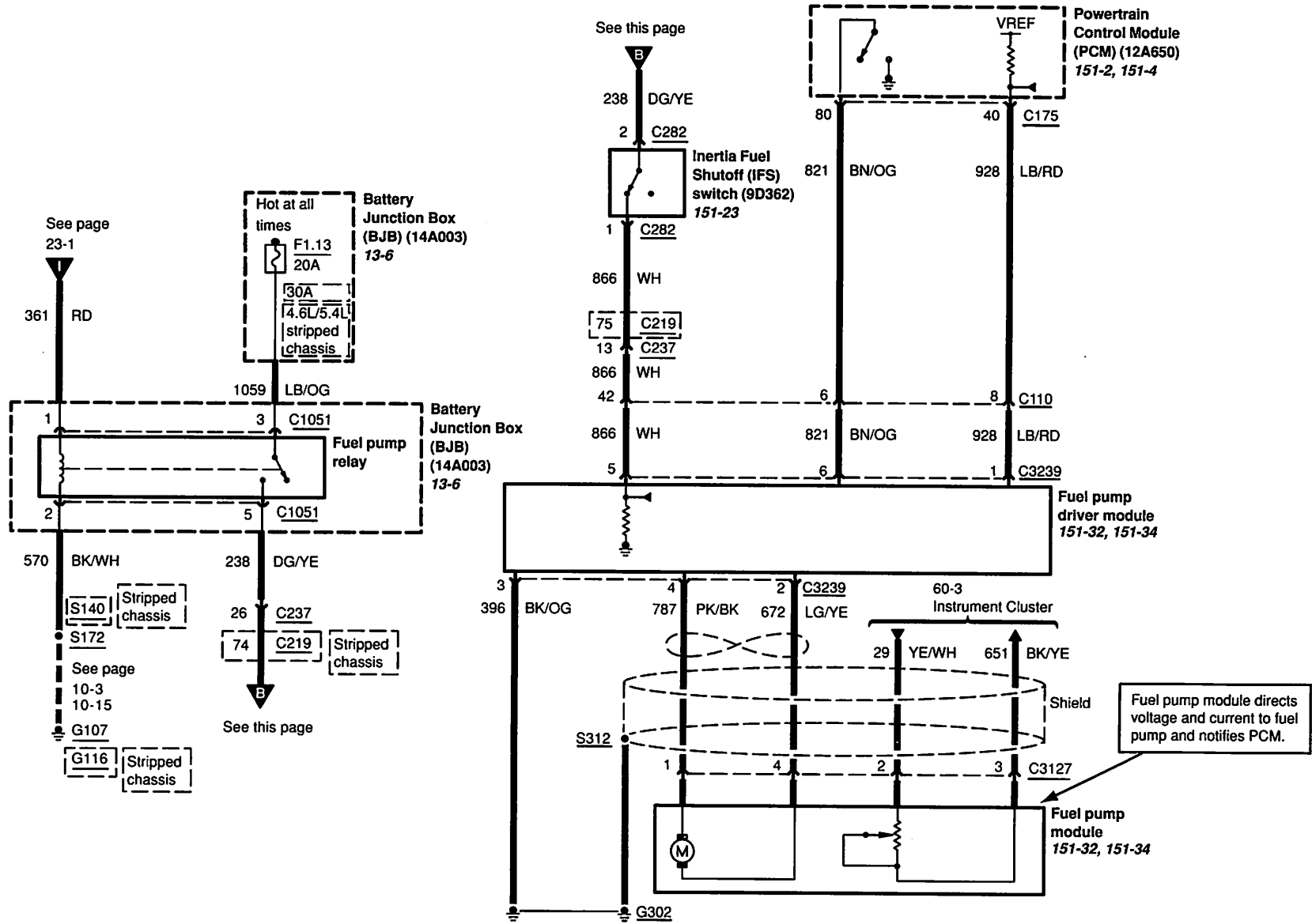
5.4L



5.4L



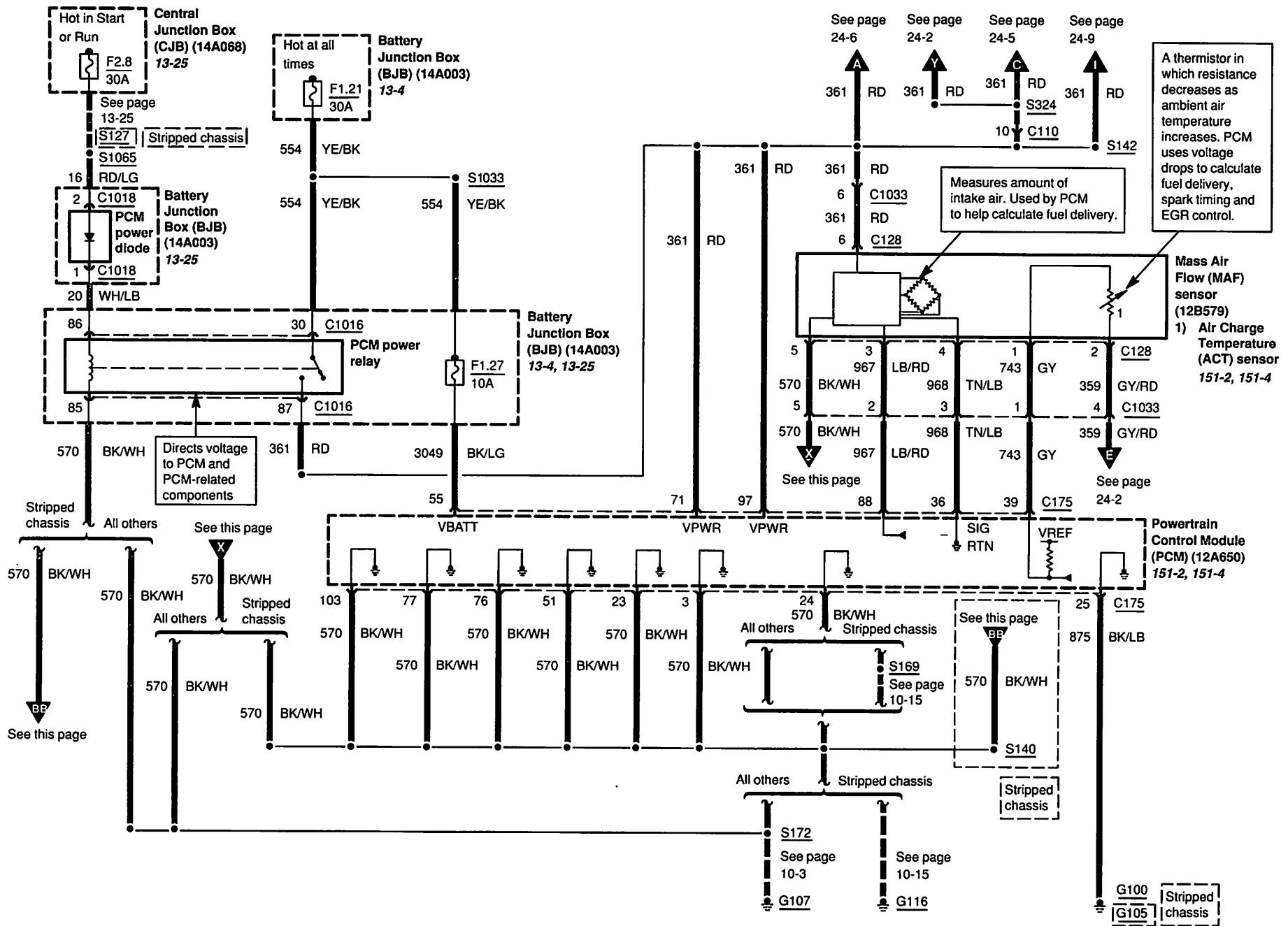
5.4L



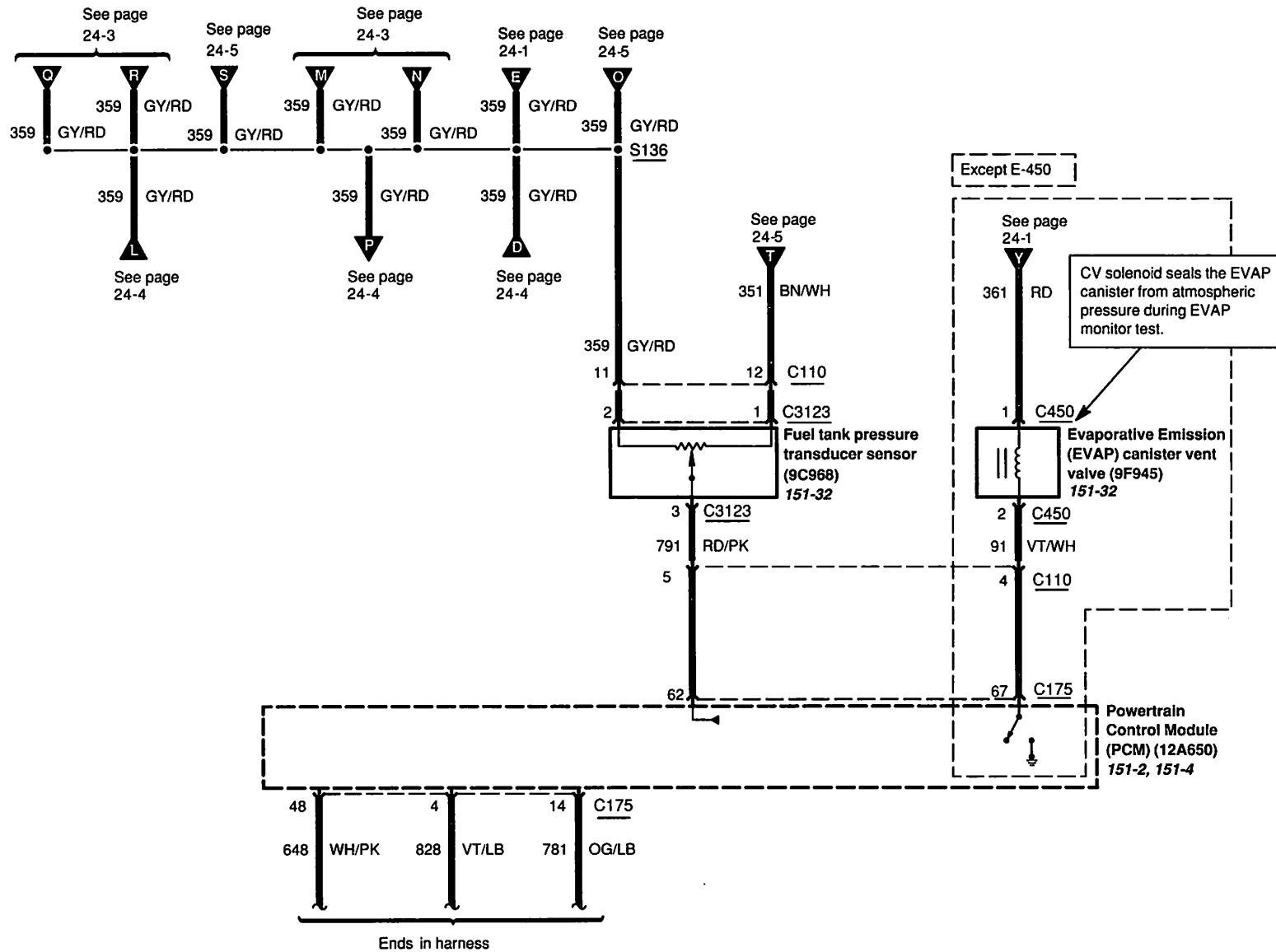
Notes

24-1 Engine Controls

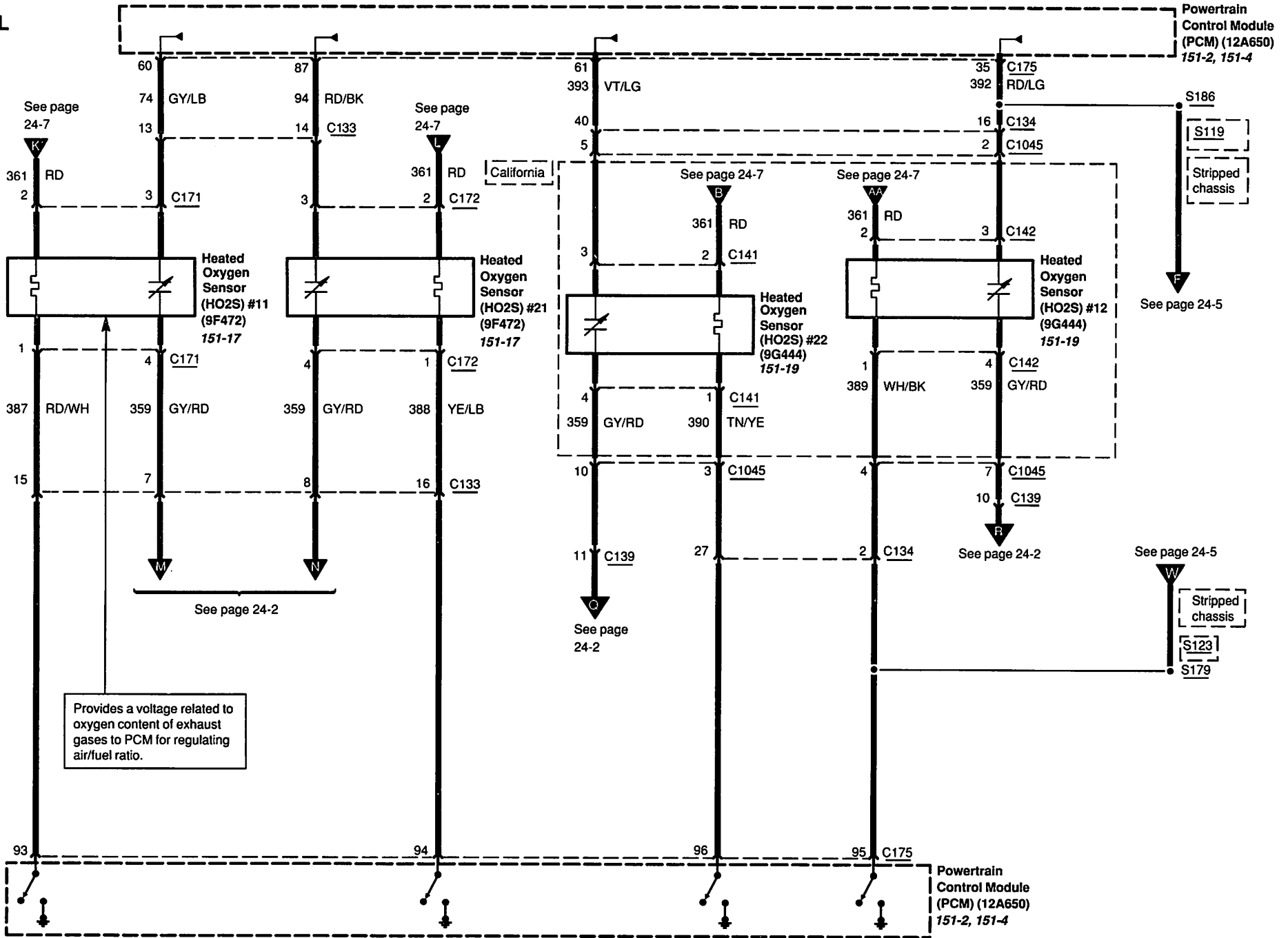
6.8L



6.8L

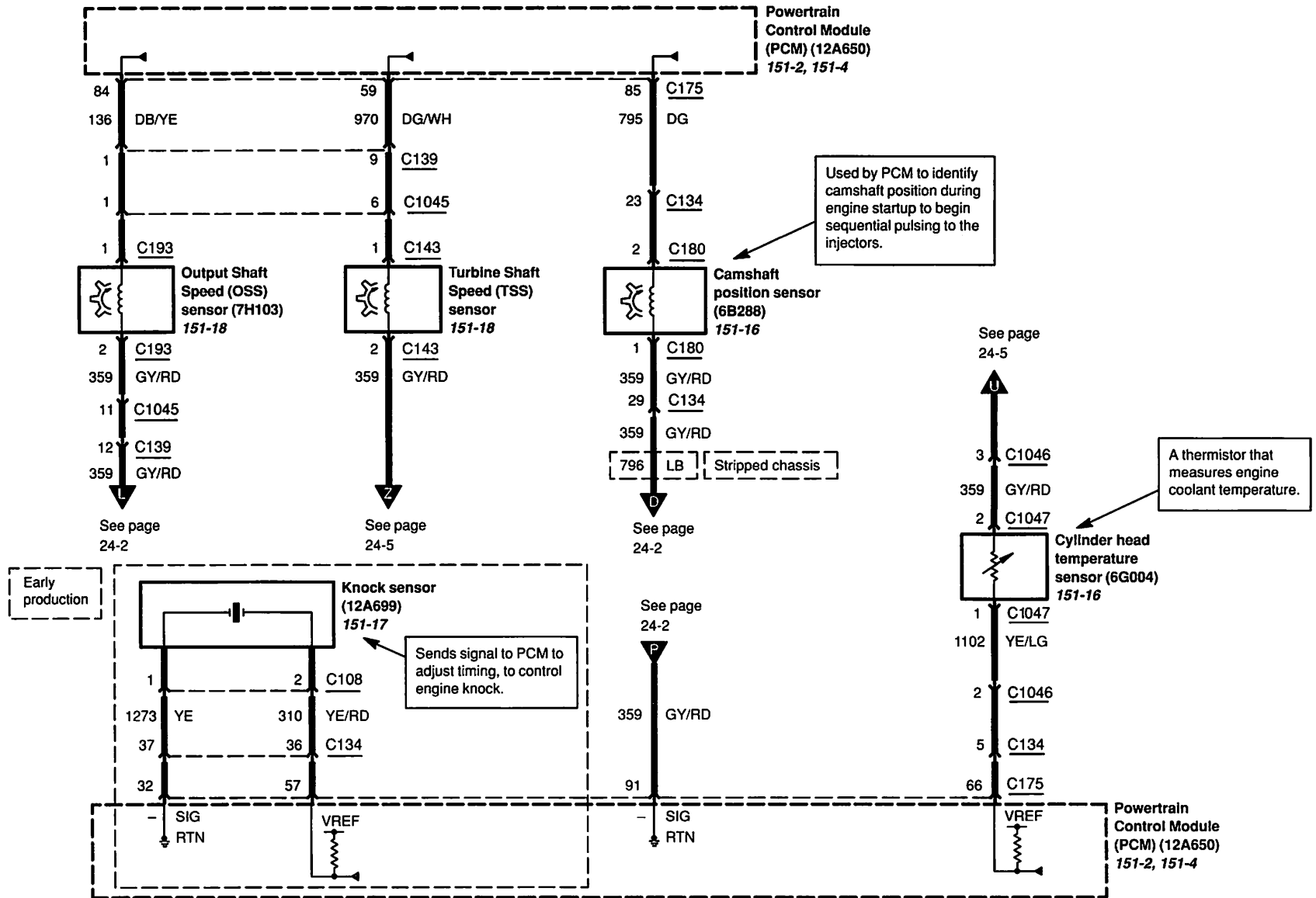


6.8L

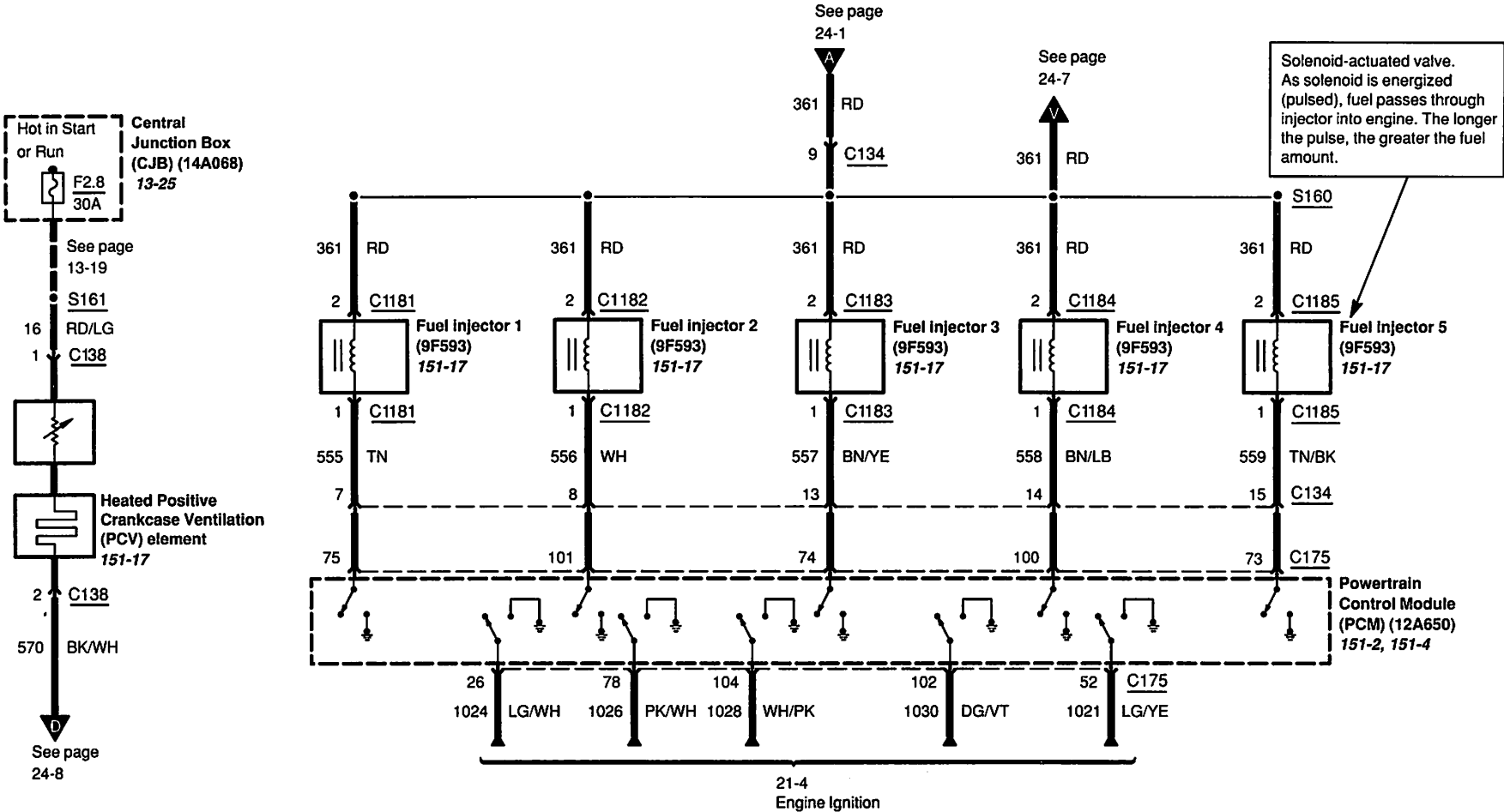


Provides a voltage related to oxygen content of exhaust gases to PCM for regulating air/fuel ratio.

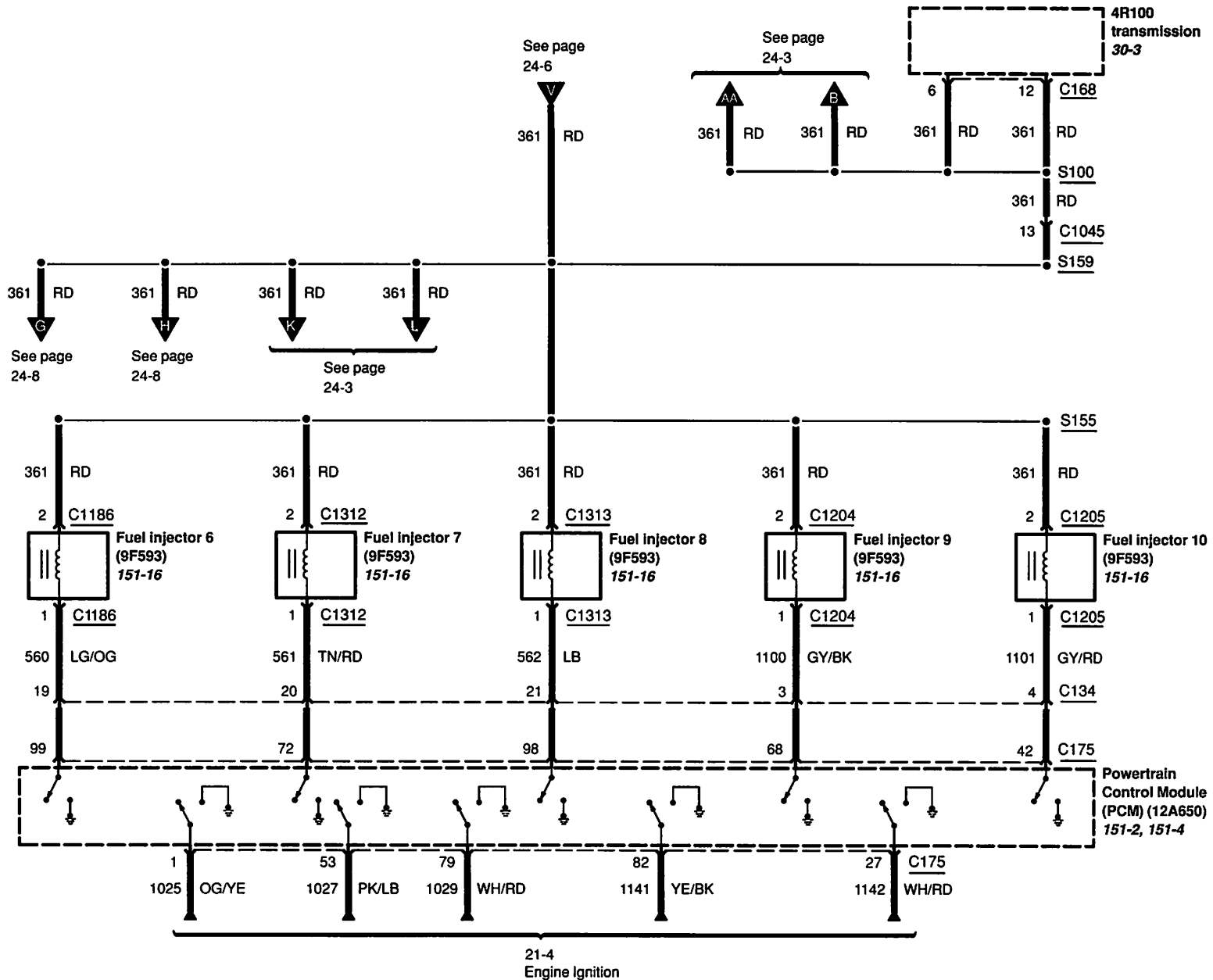
6.8L



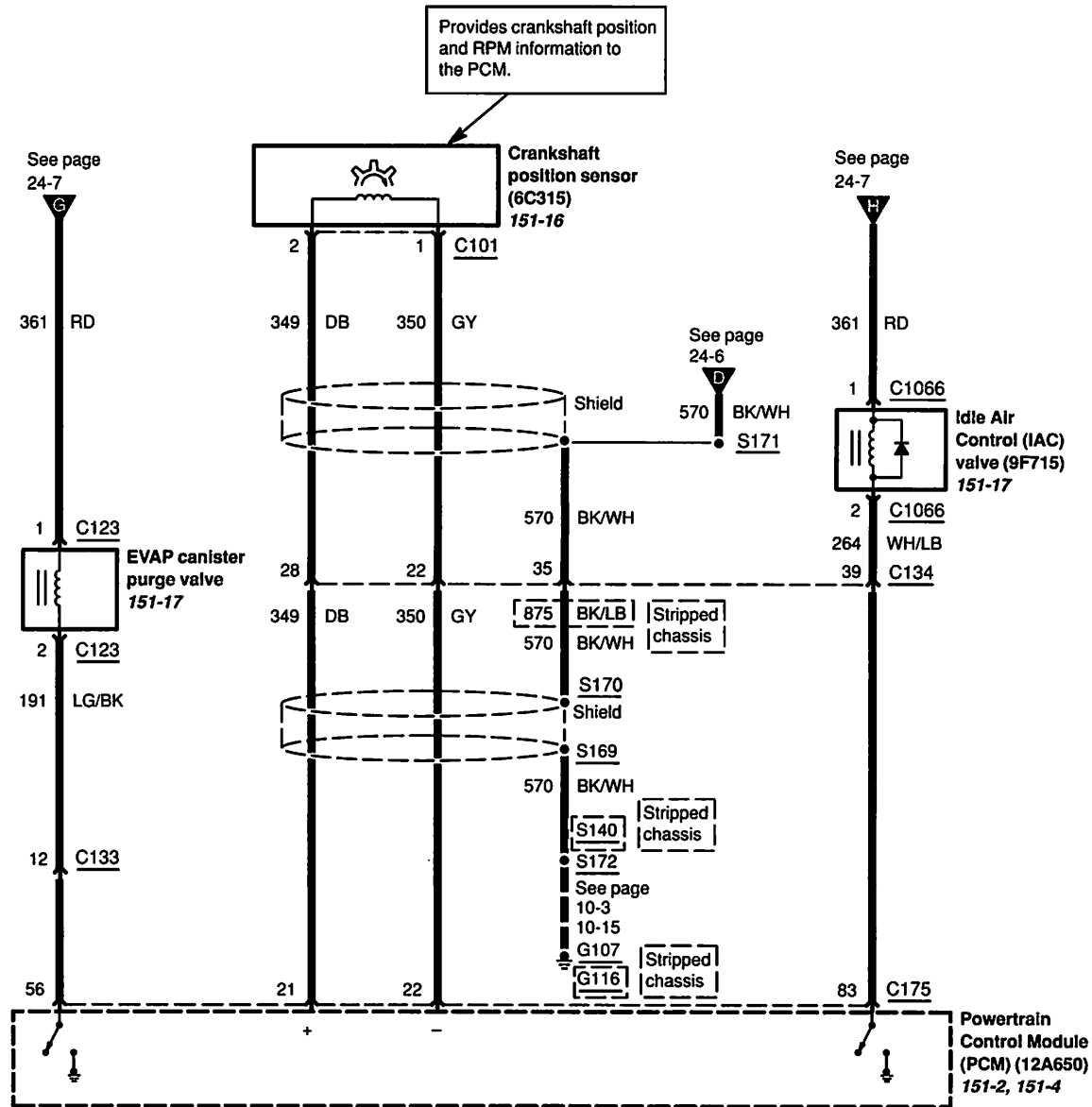
6.8L



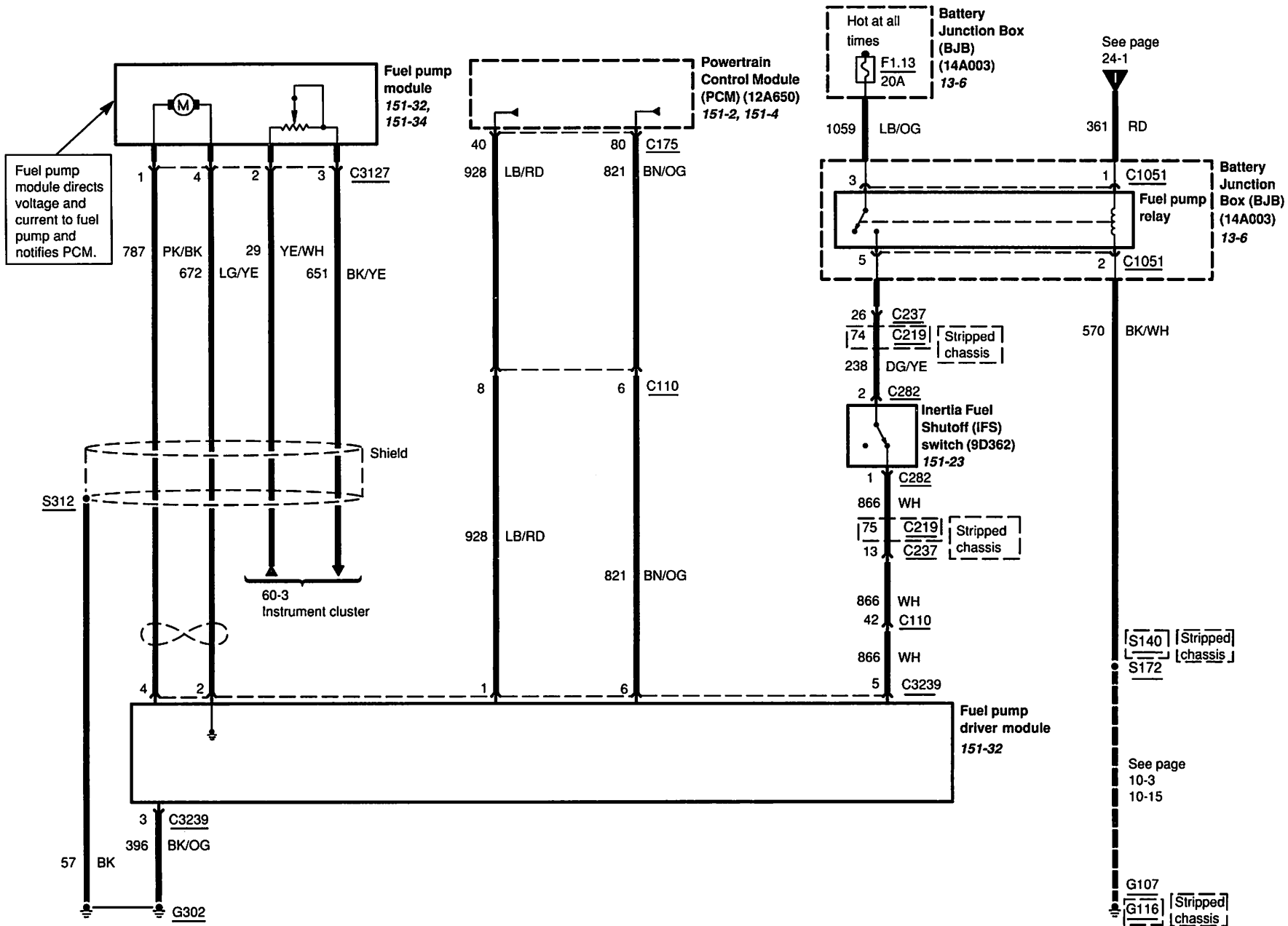
6.8L



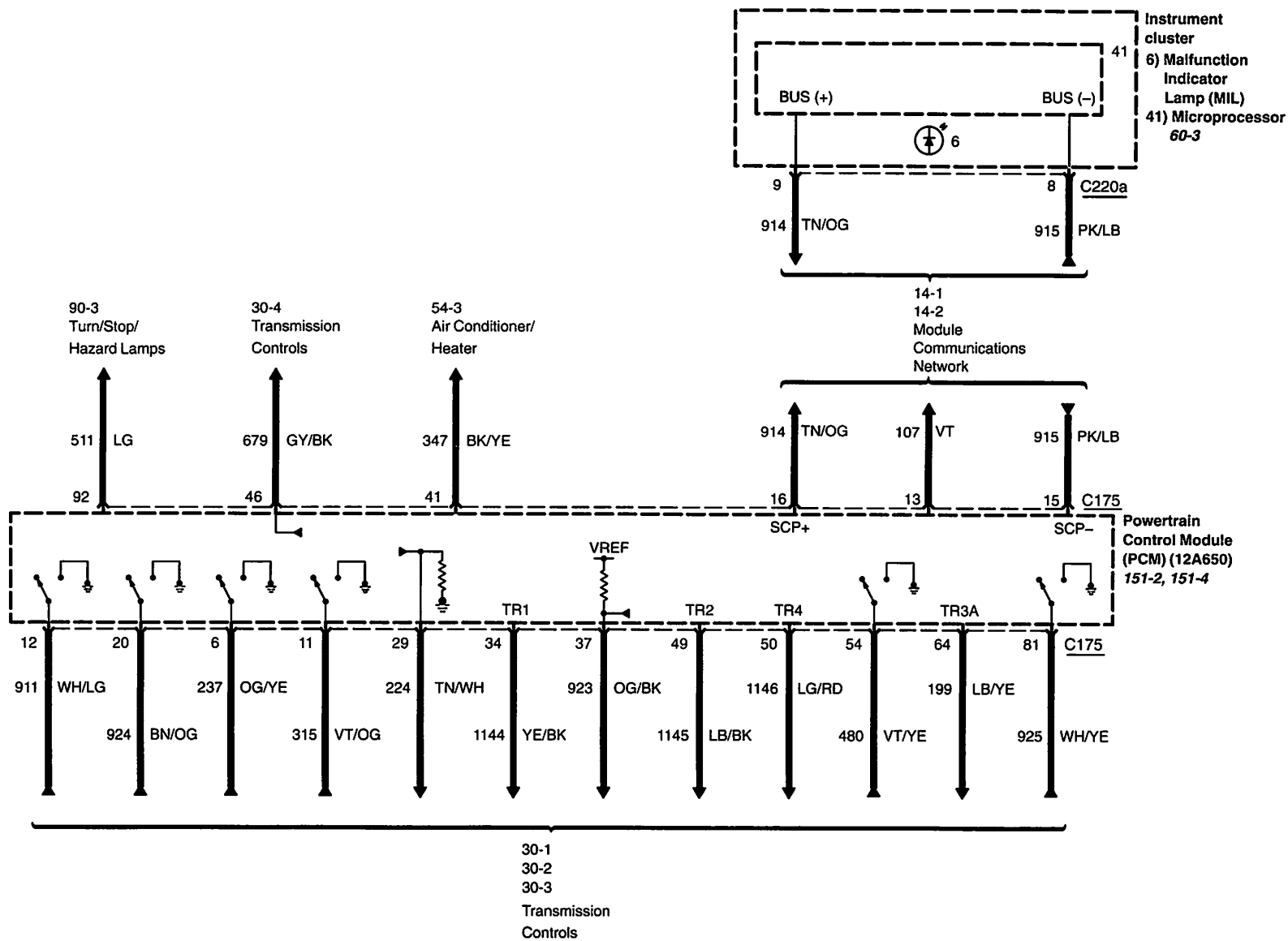
6.8L



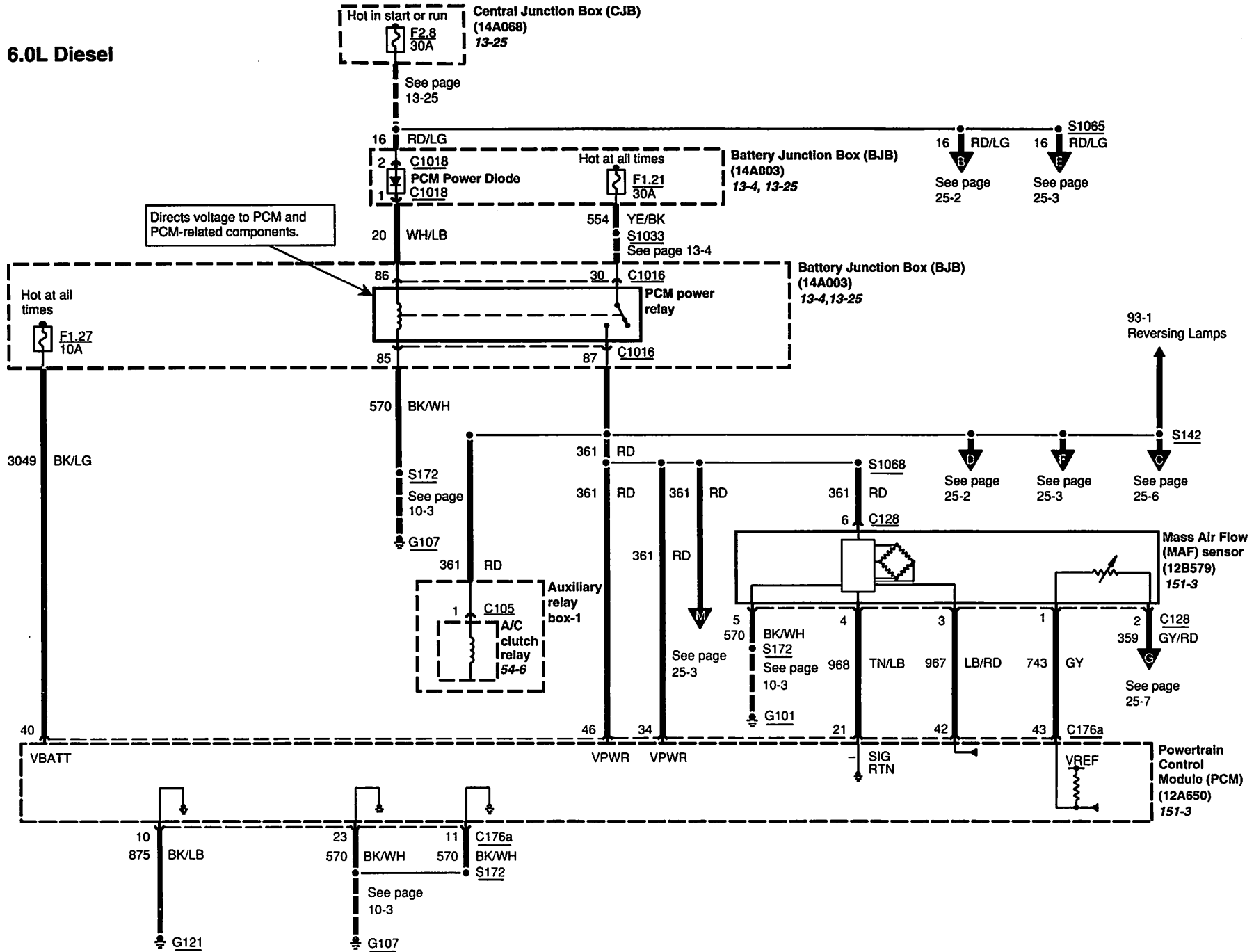
6.8L



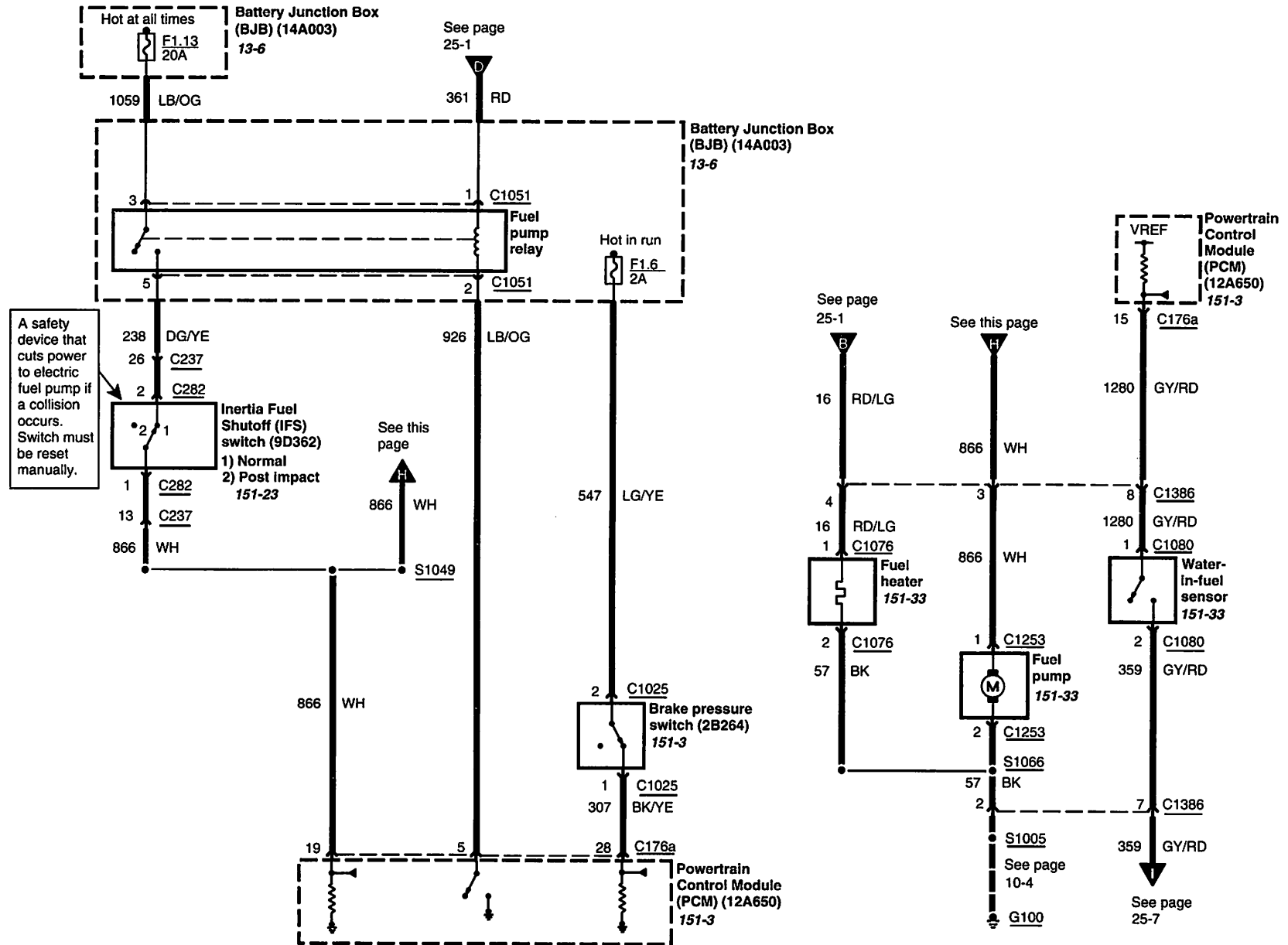
6.8L



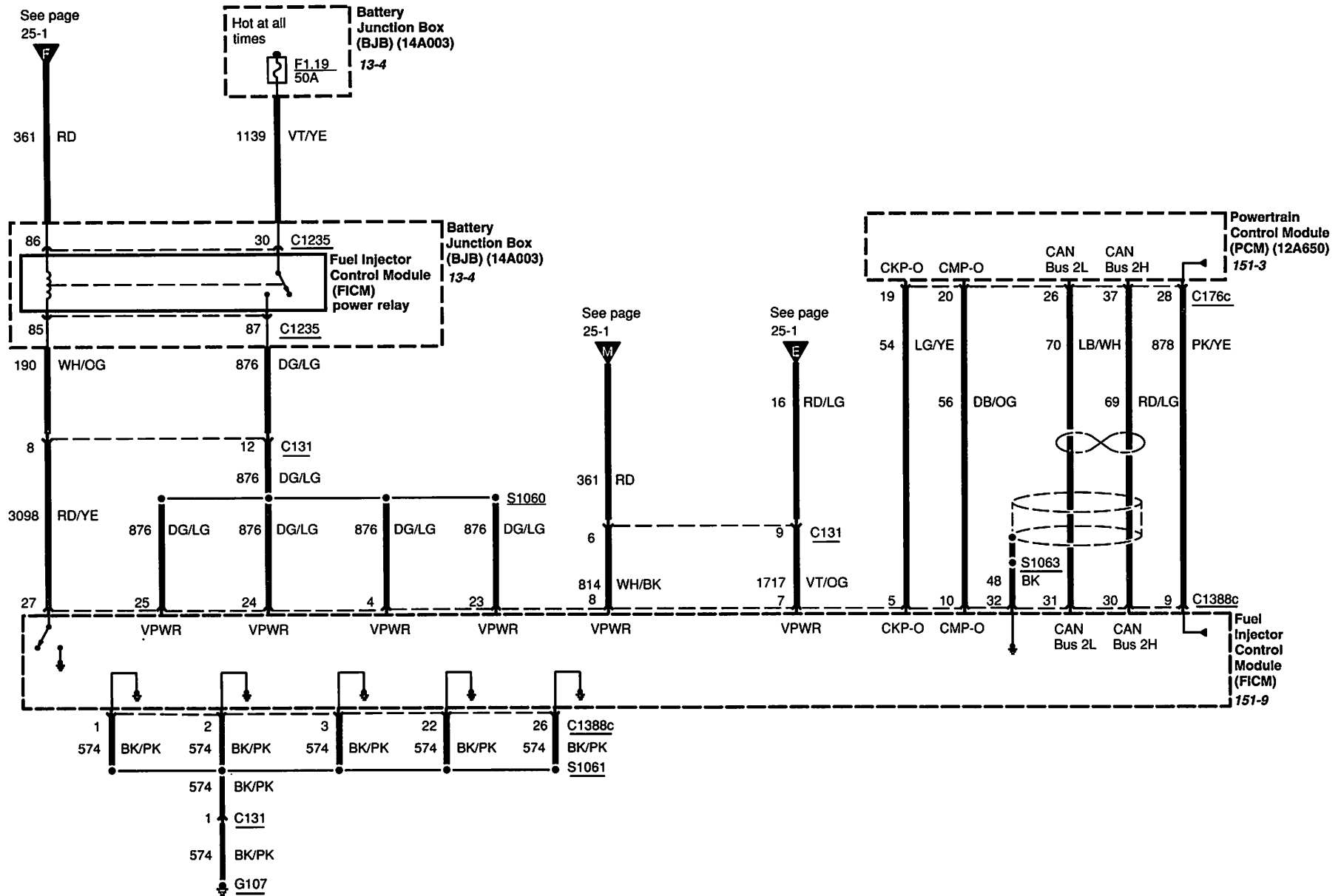
6.0L Diesel



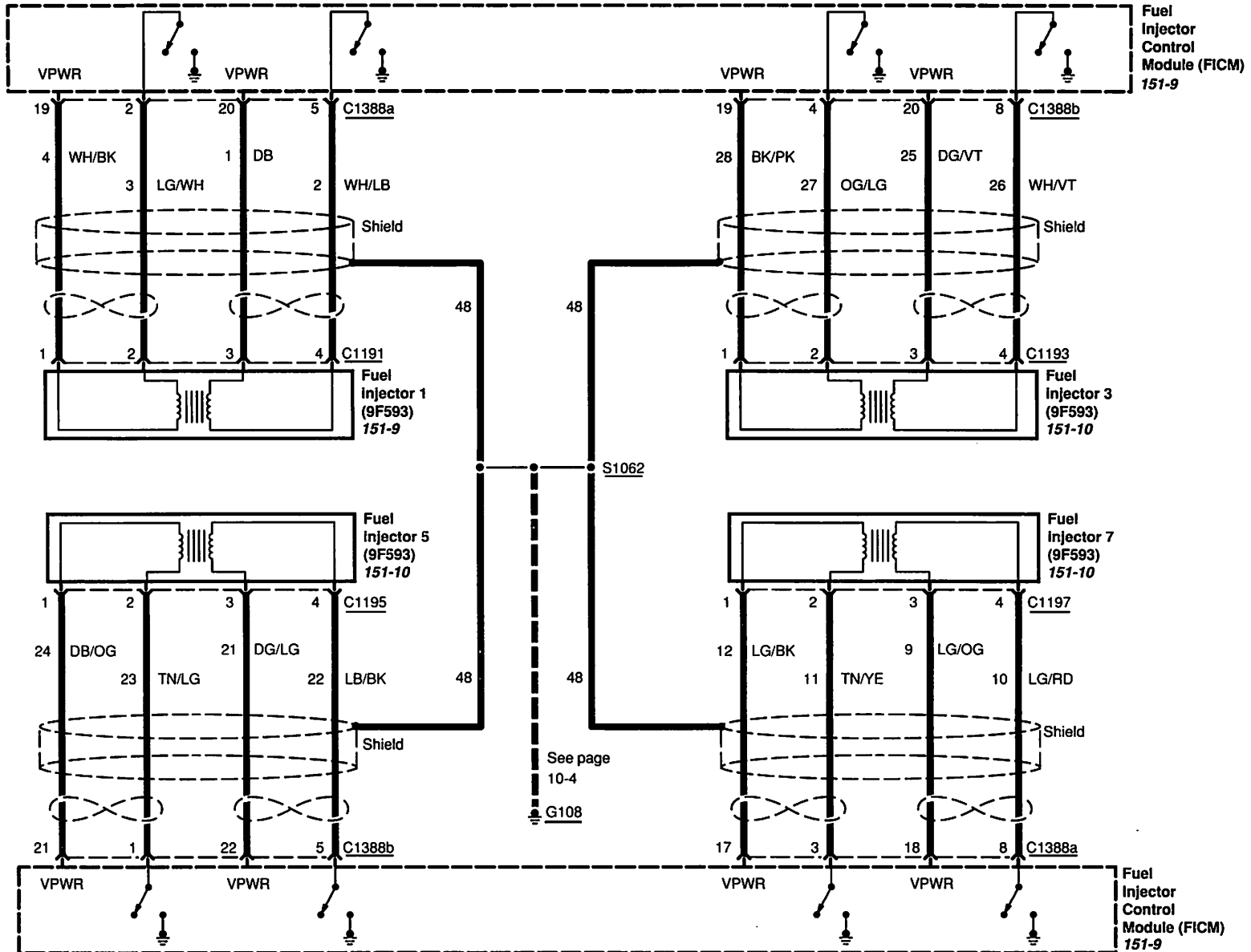
6.0L Diesel



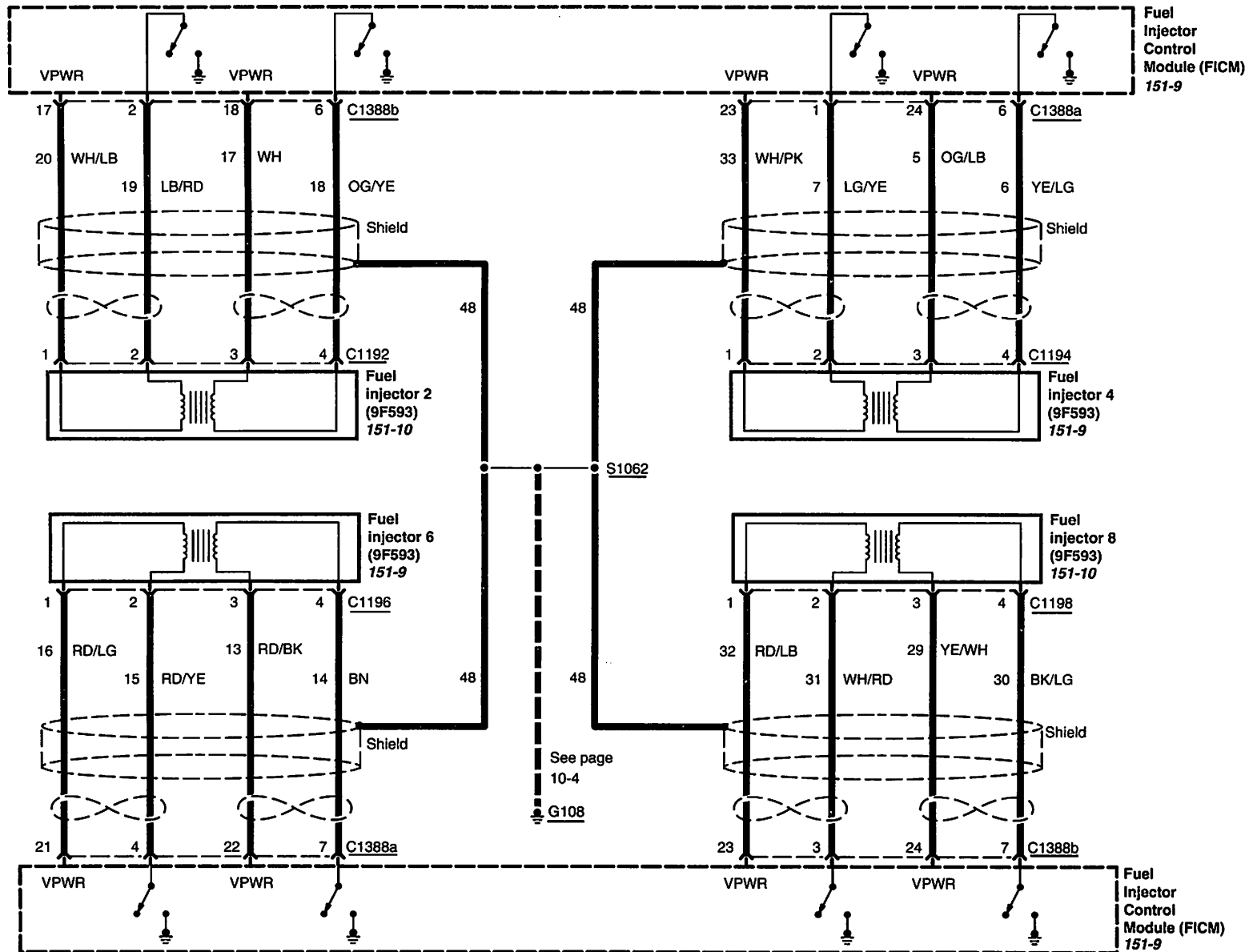
6.0L Diesel



6.0L Diesel

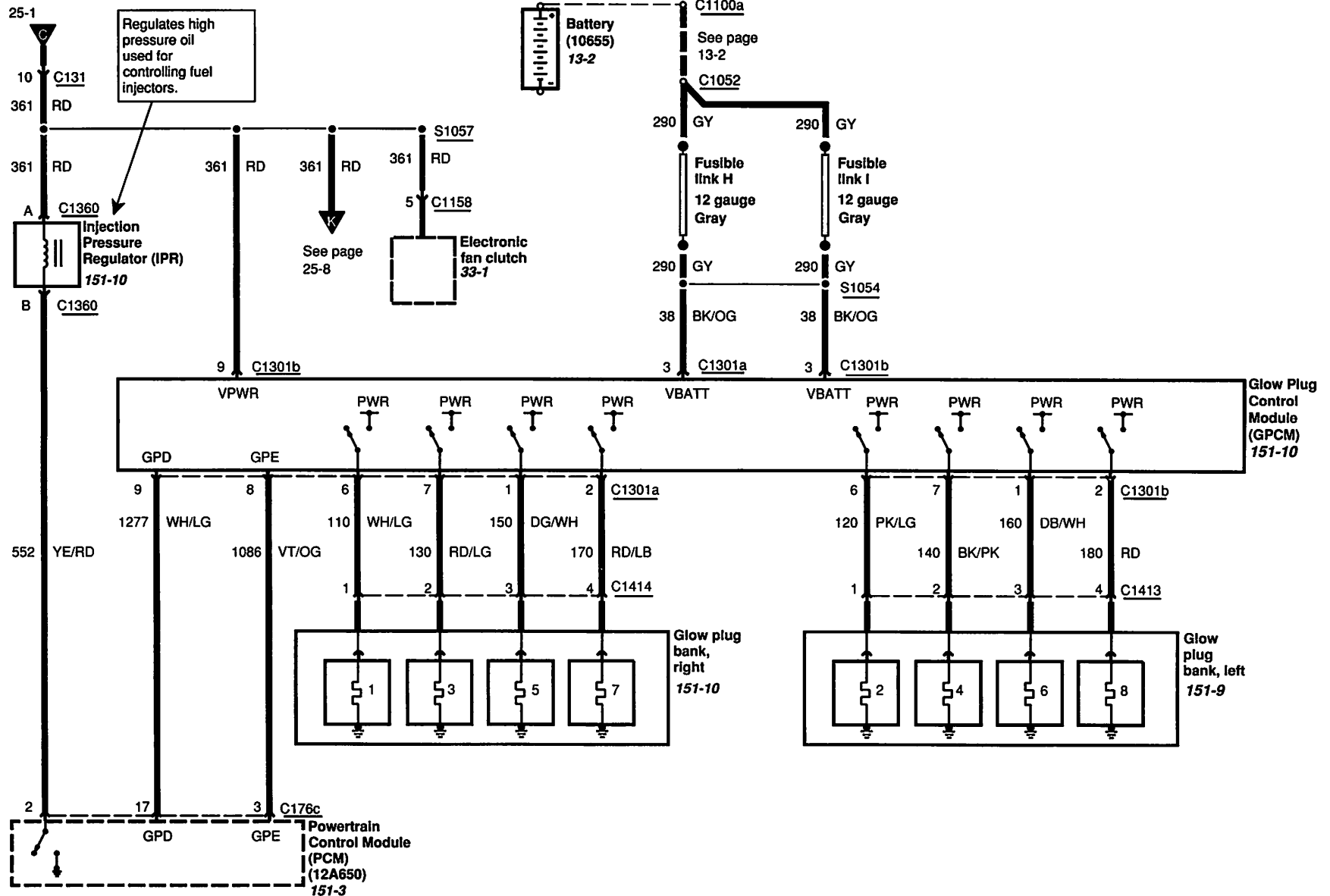


6.0L Diesel

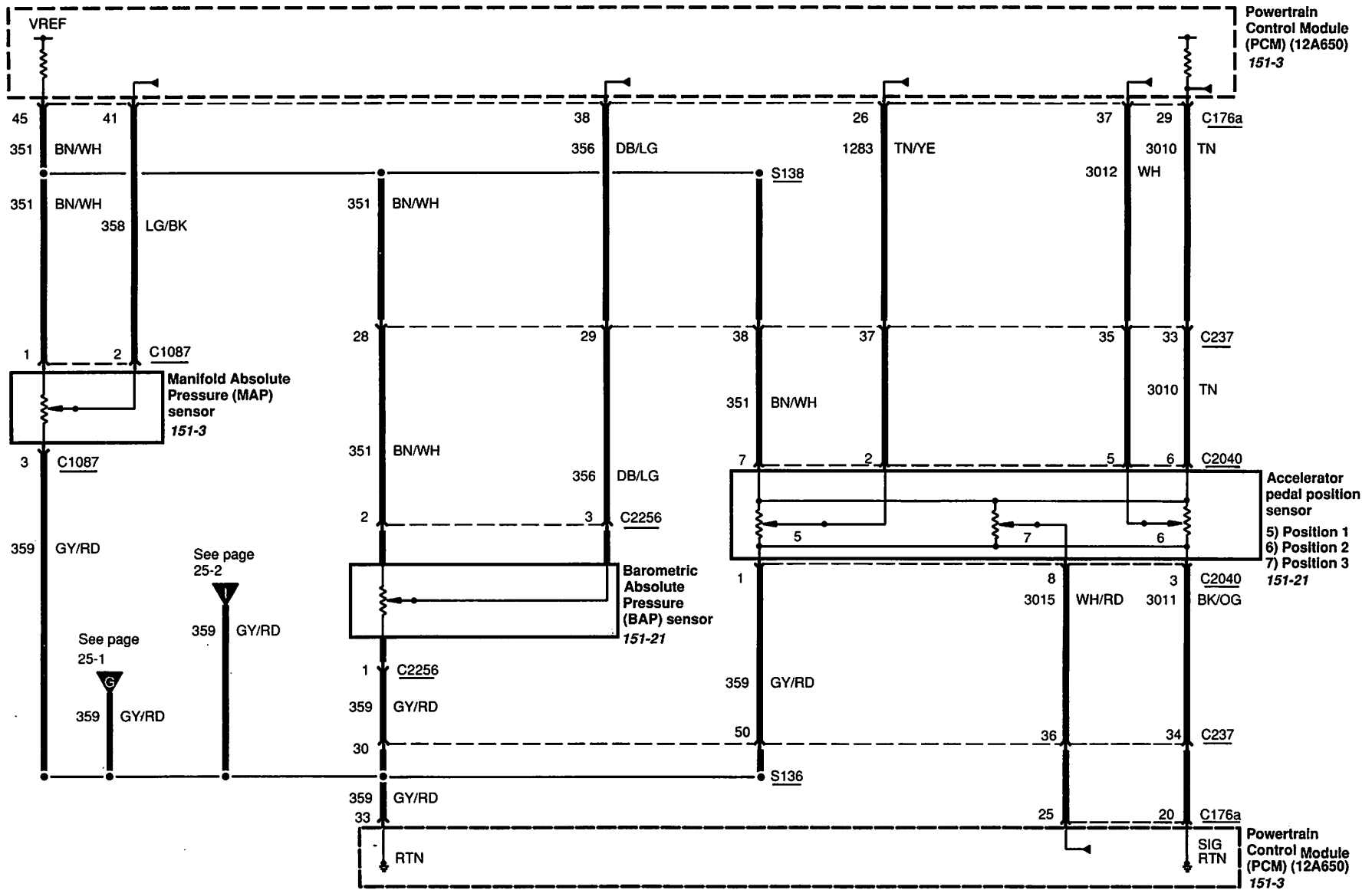


6.0L Diesel

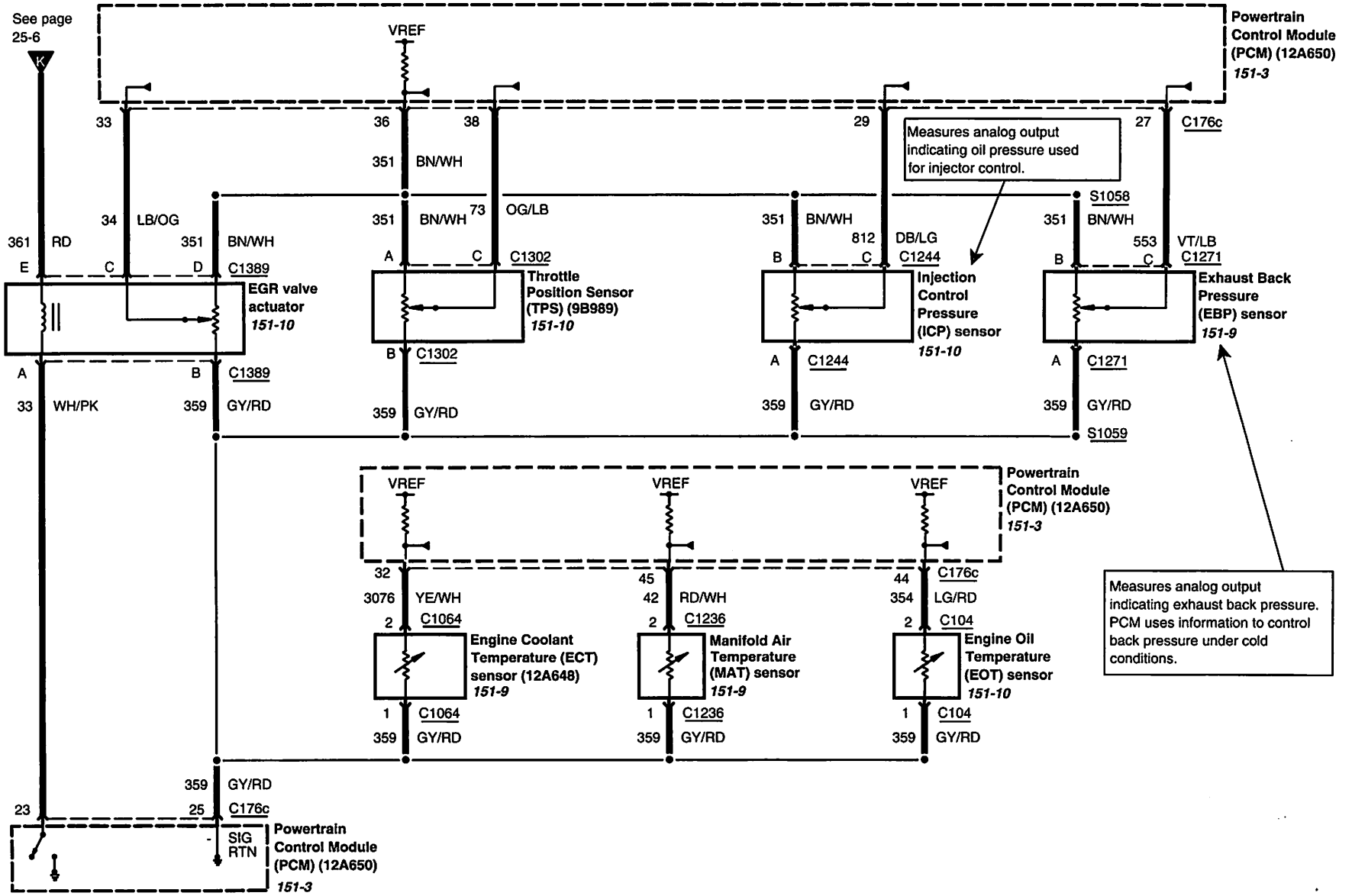
See page 25-1



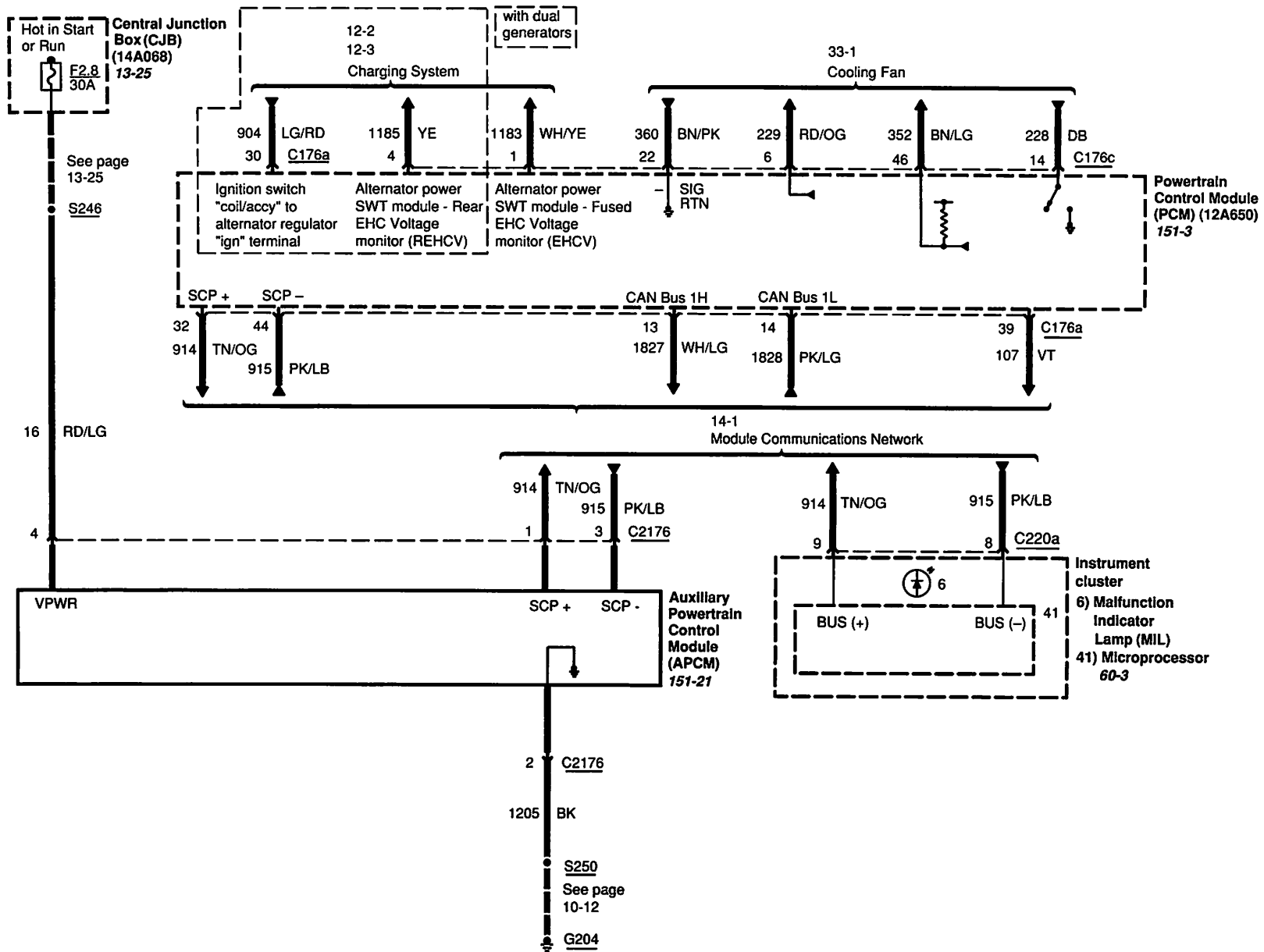
6.0L Diesel



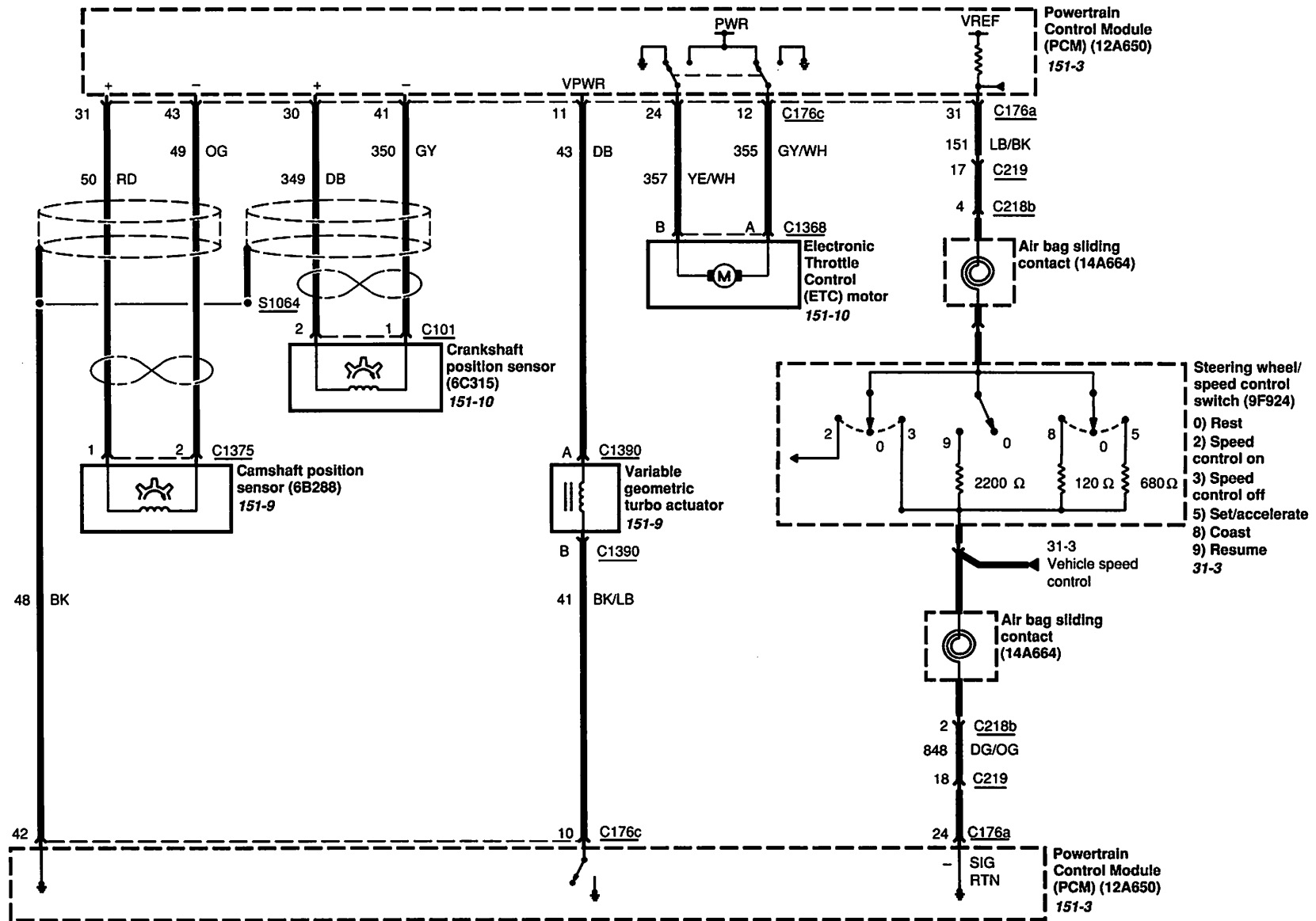
6.0L Diesel



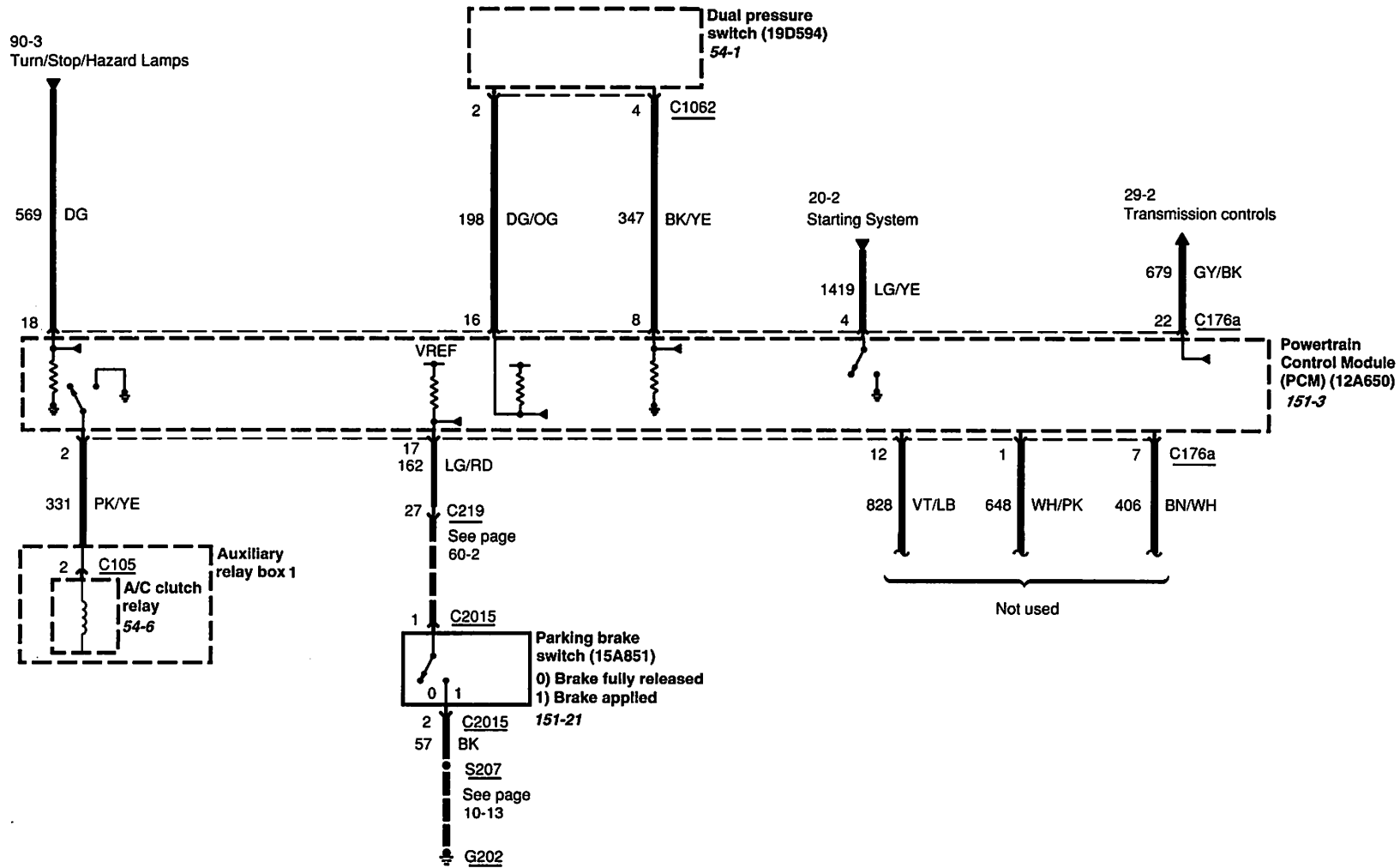
6.0L Diesel



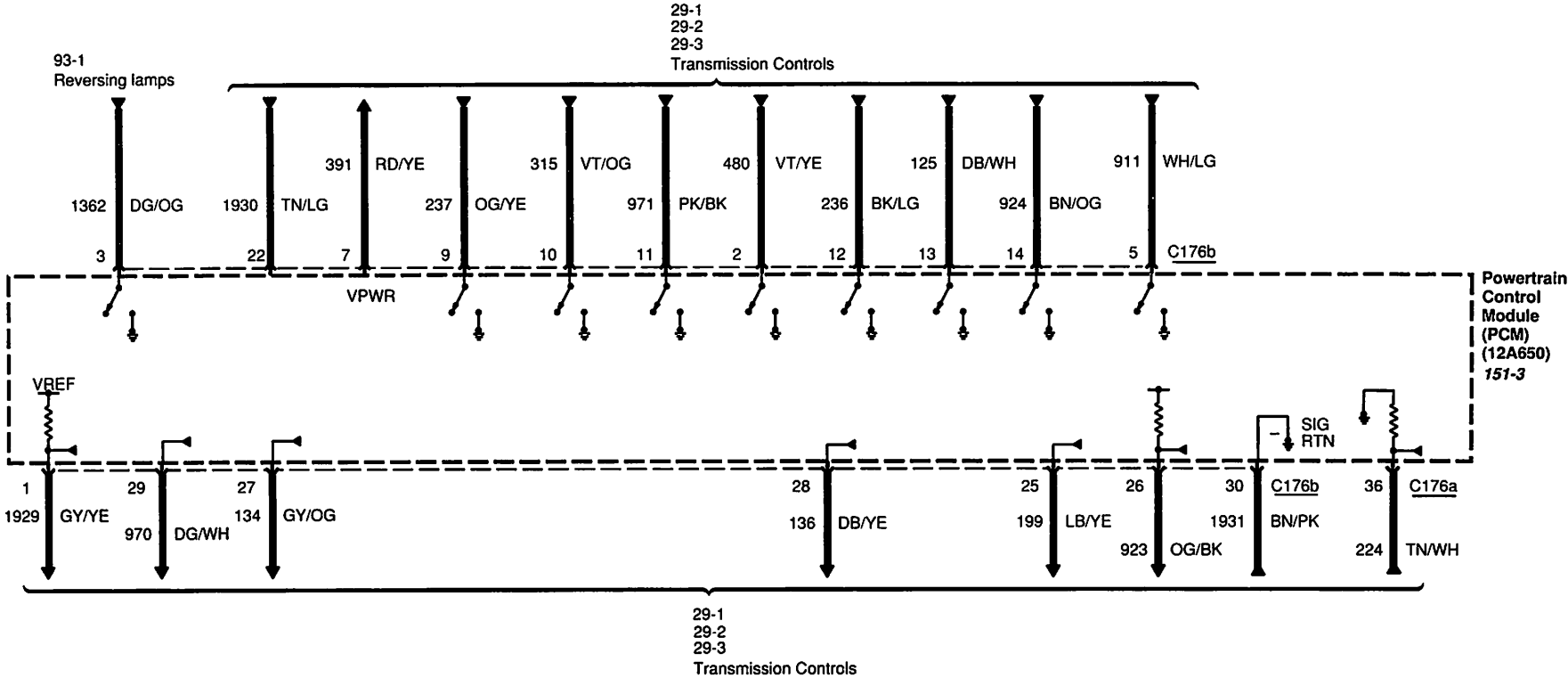
6.0L Diesel



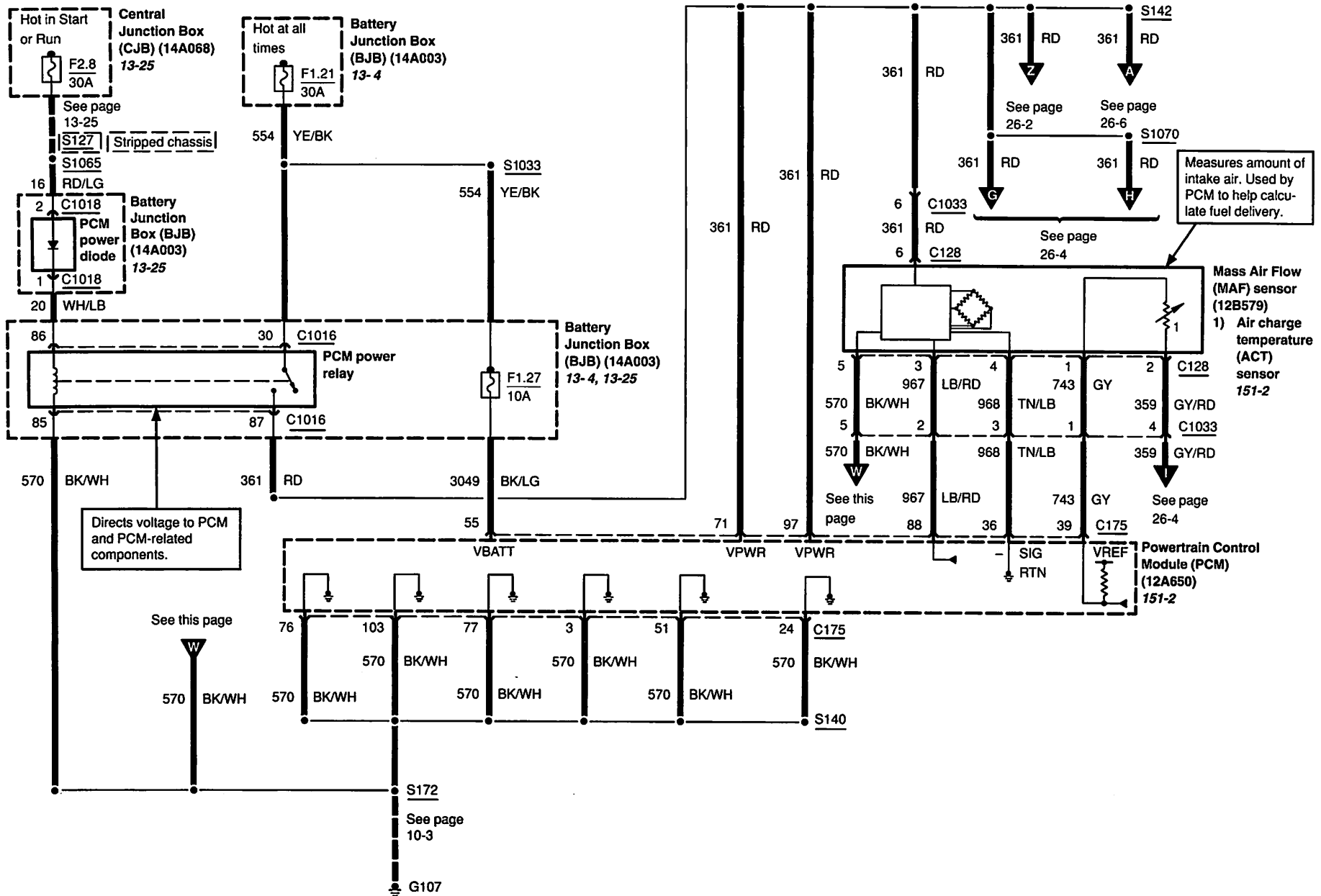
6.0L Diesel



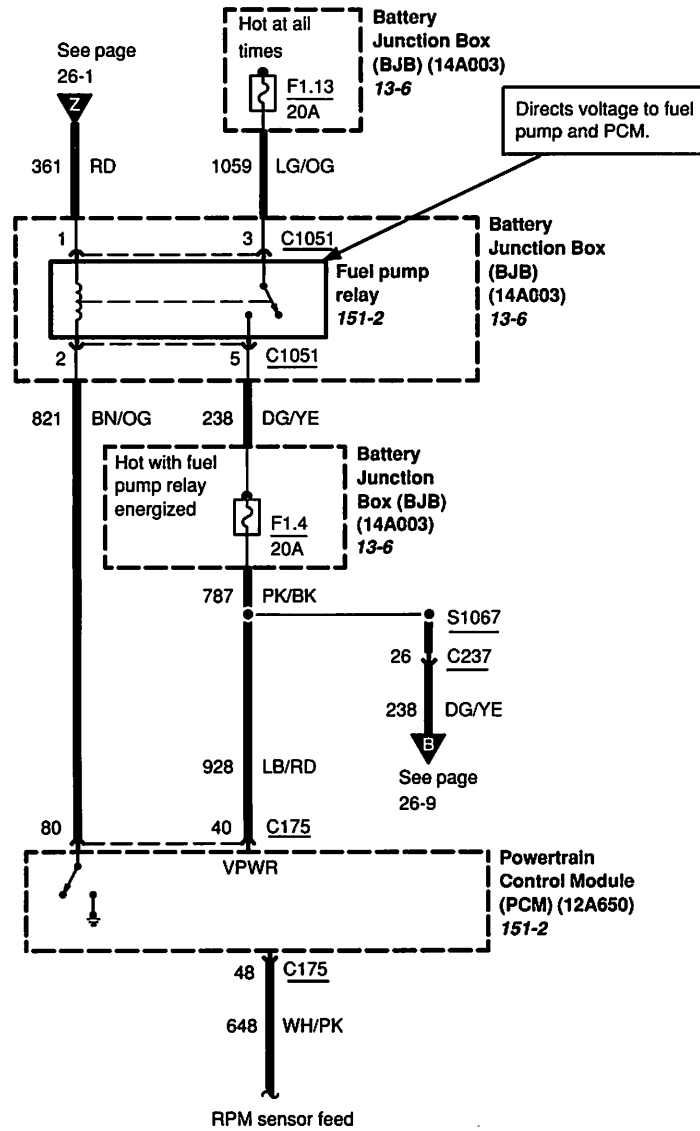
6.0L Diesel



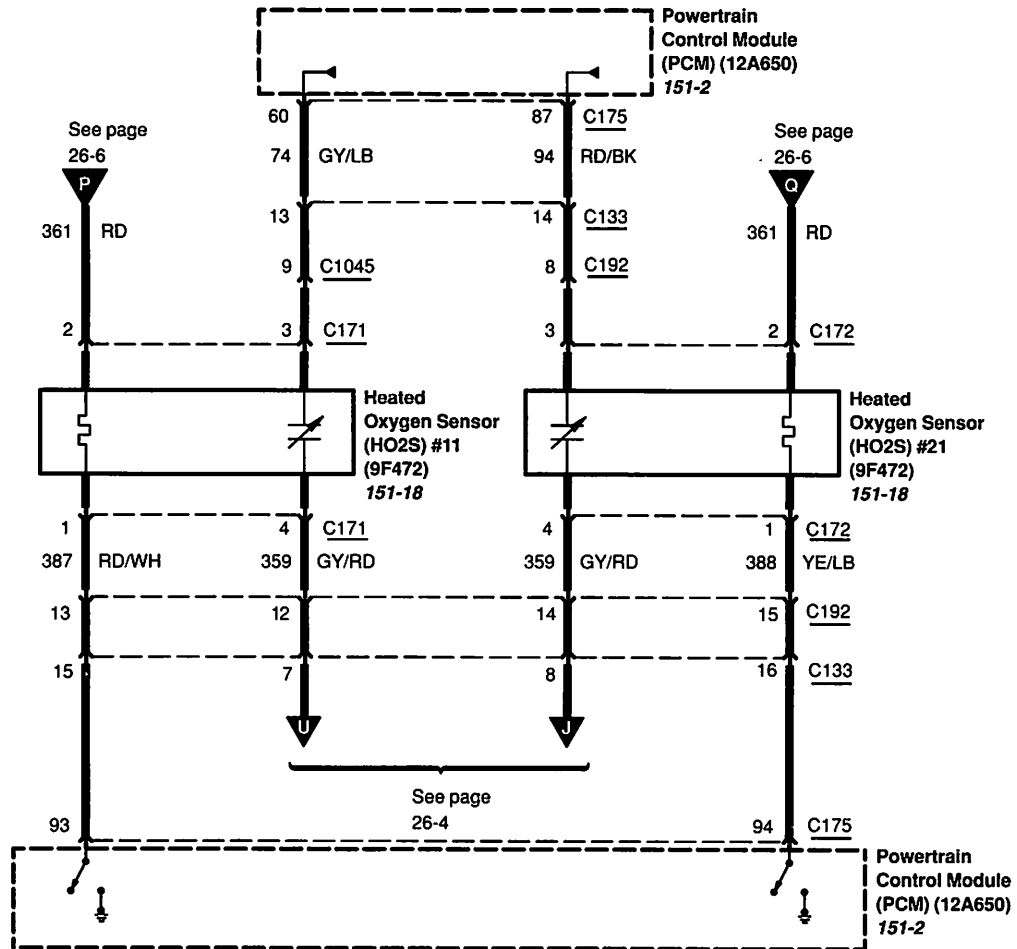
5.4L Natural Gas Vehicle (NGV)



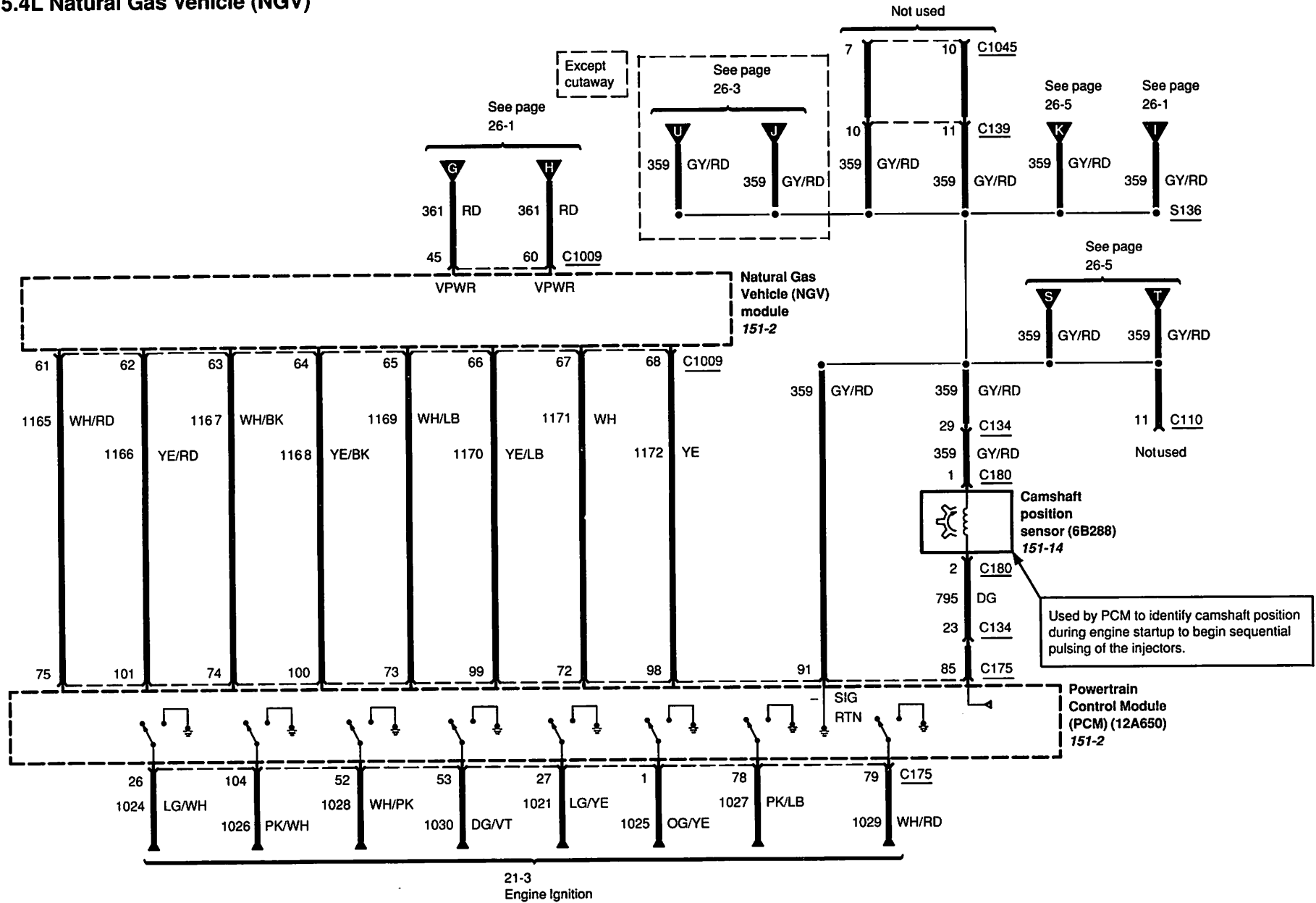
5.4L Natural Gas Vehicle (NGV)



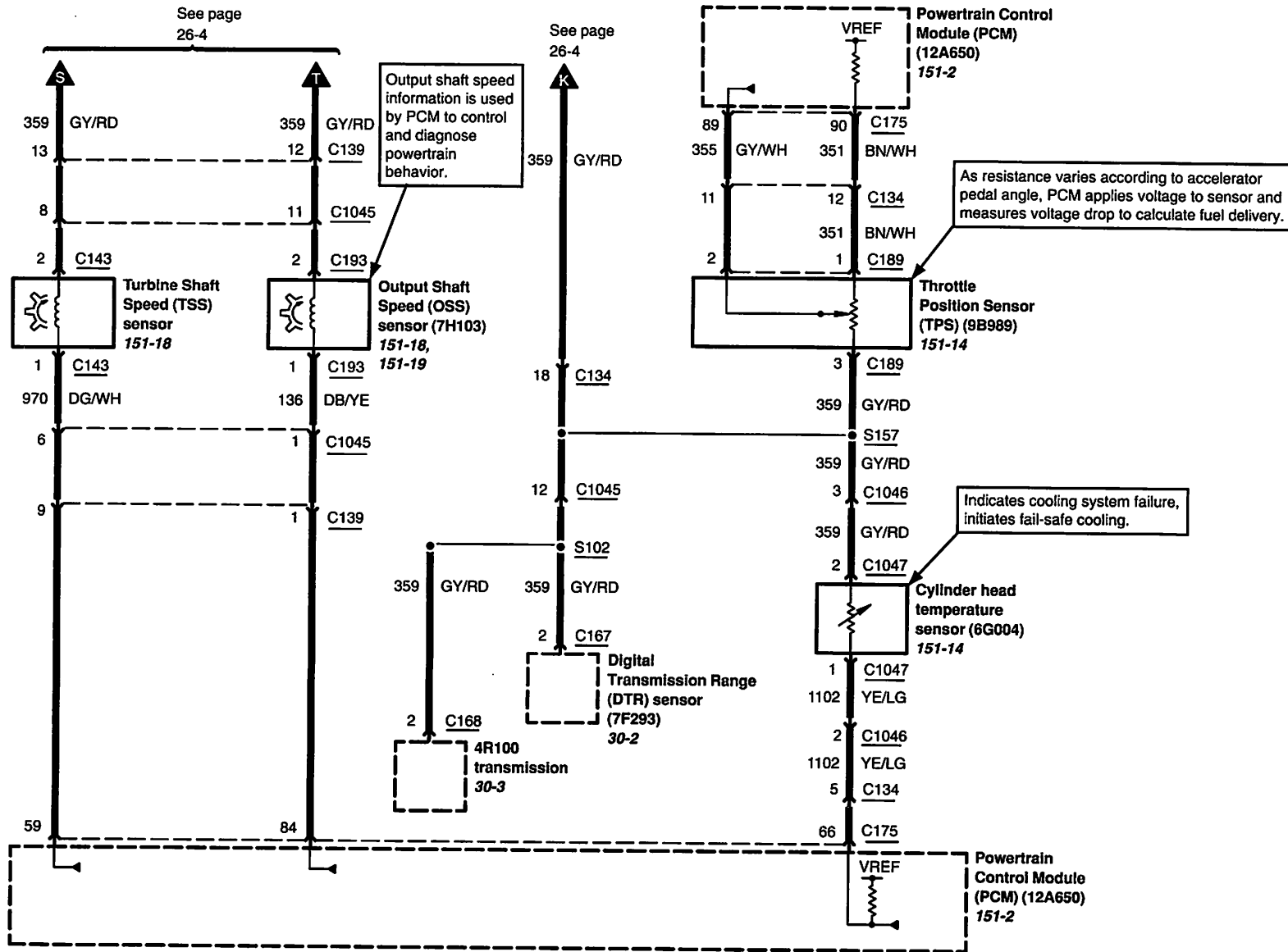
5.4L Natural Gas Vehicle (NGV); Except cutaway



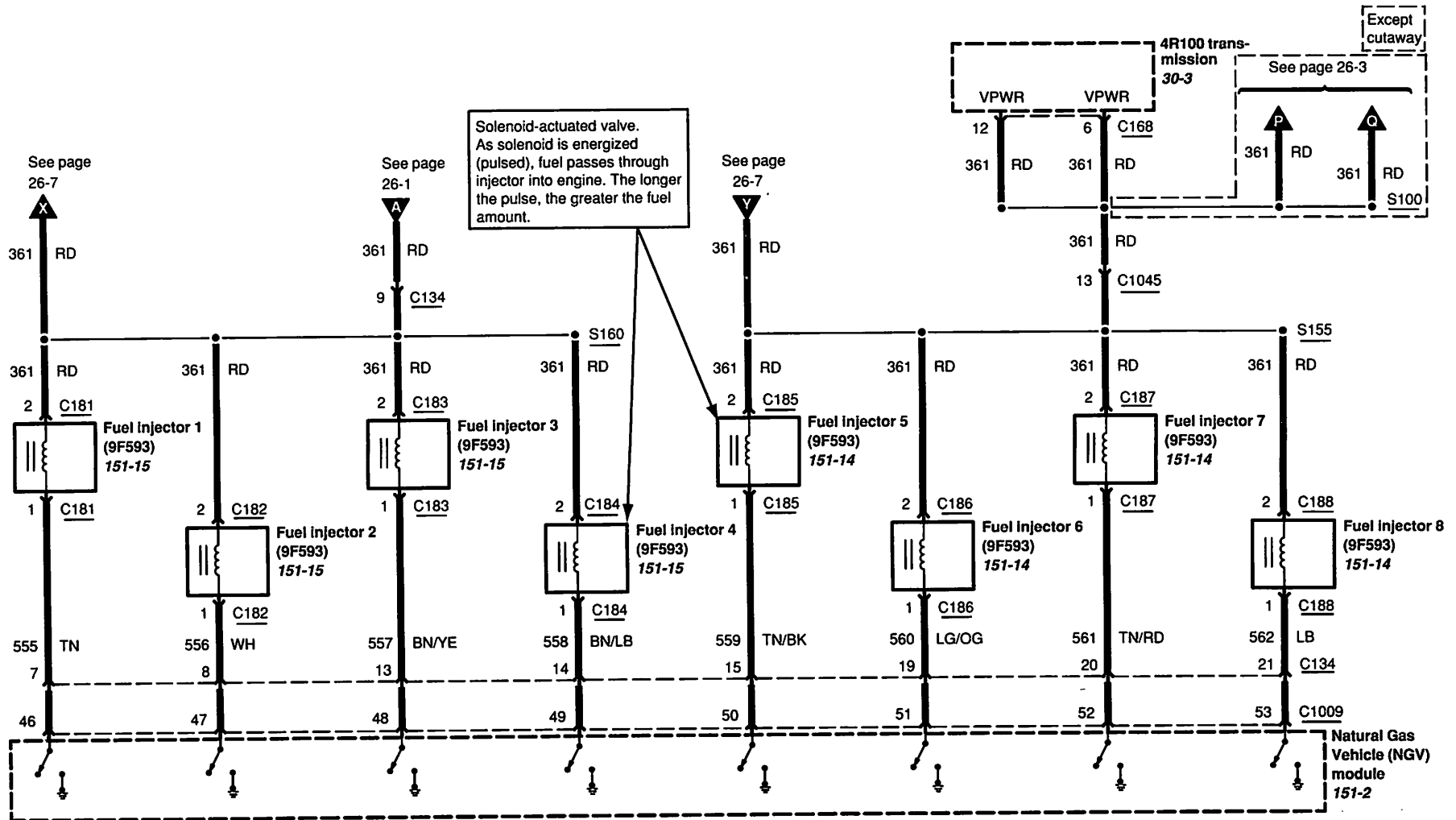
5.4L Natural Gas Vehicle (NGV)



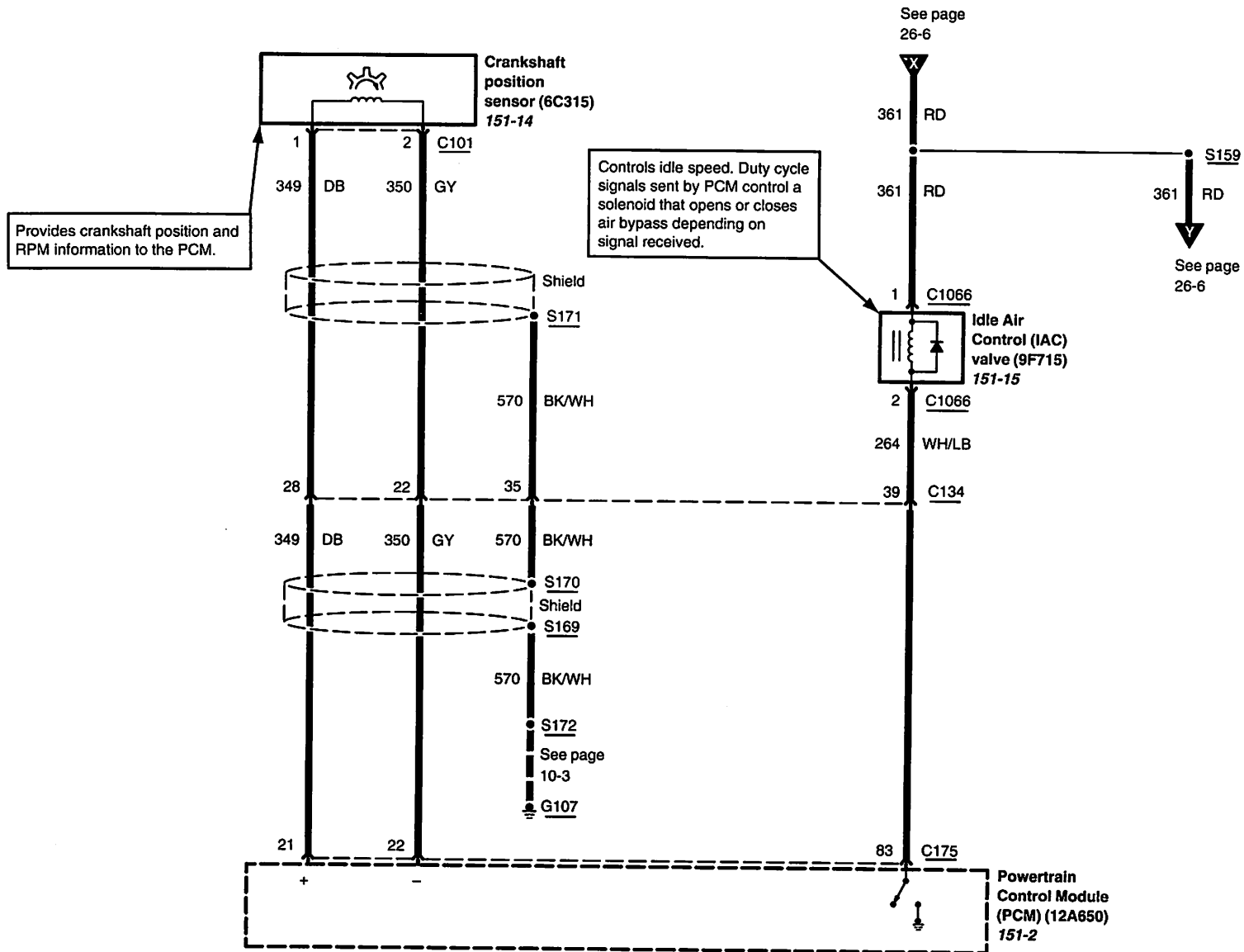
5.4L Natural Gas Vehicle (NGV)



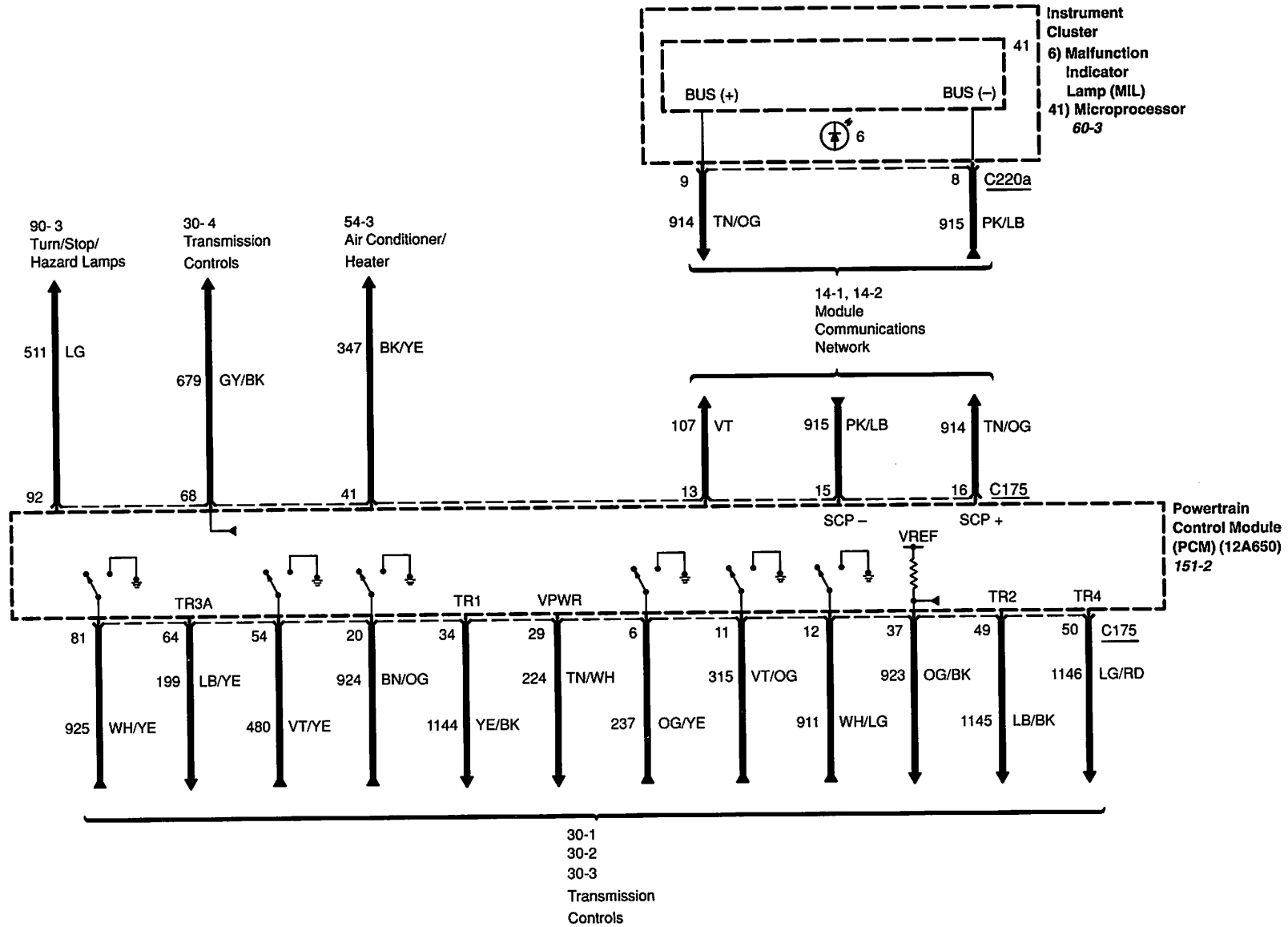
5.4L Natural Gas Vehicle (NGV)



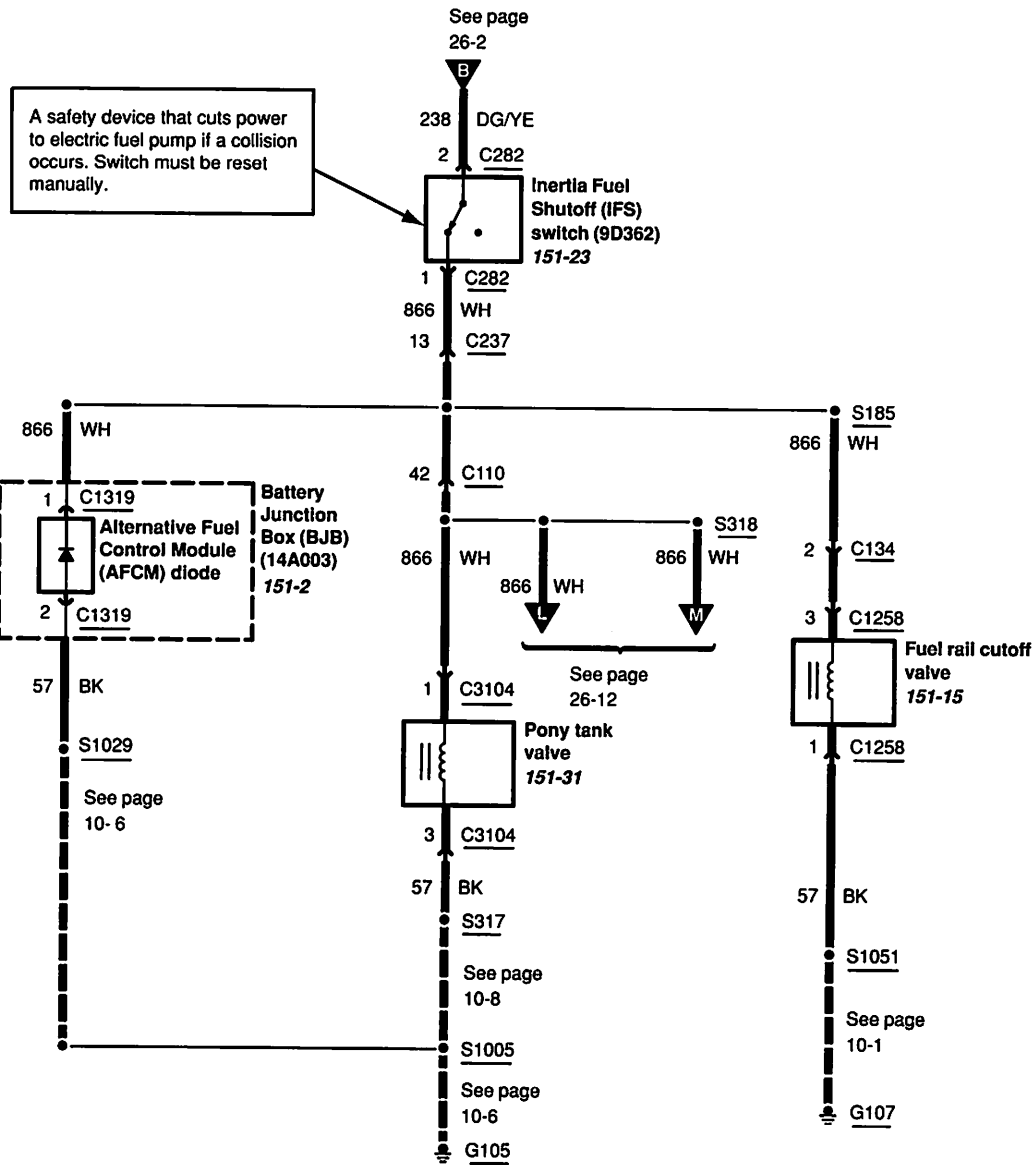
5.4L Natural Gas Vehicle (NGV)



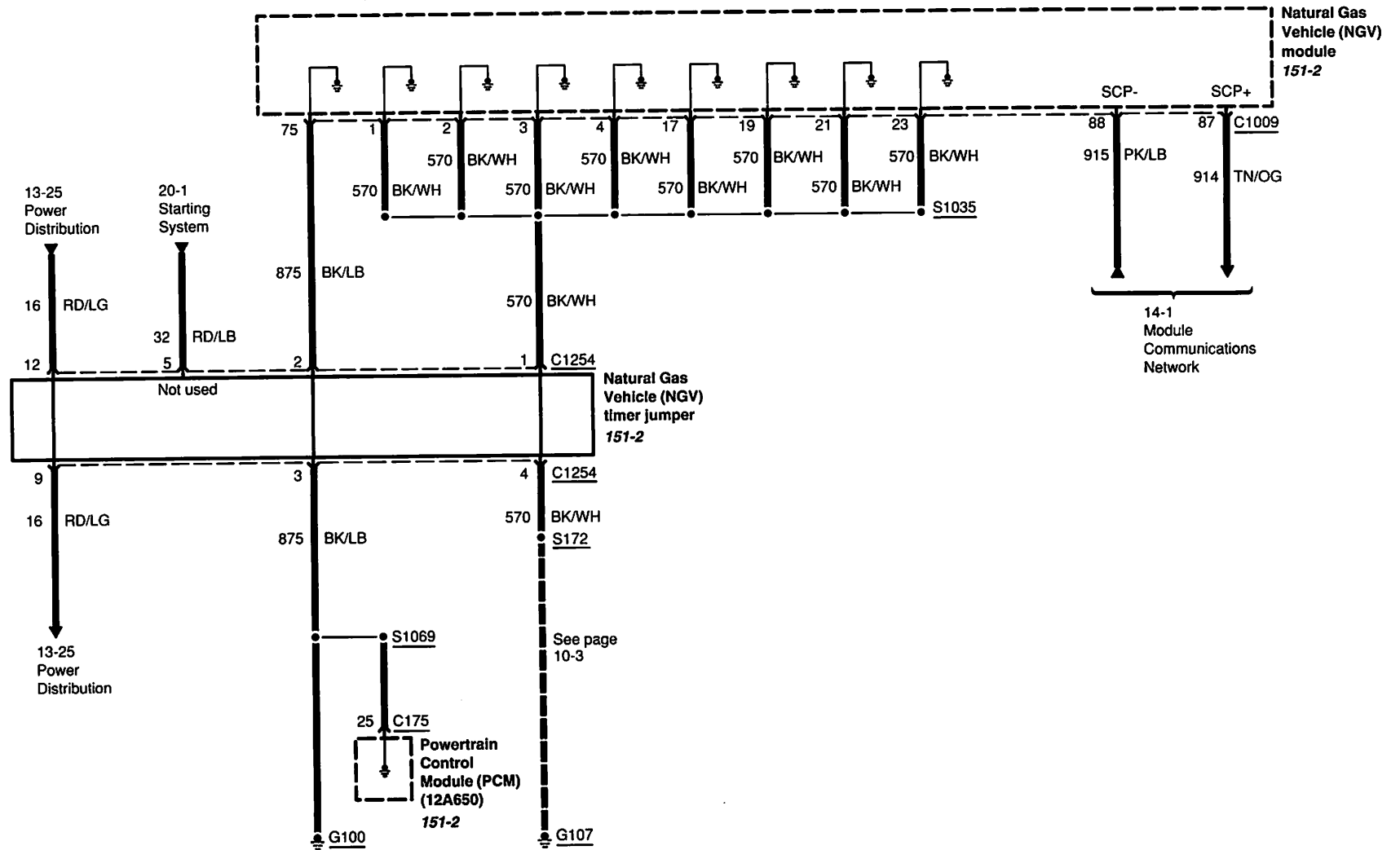
5.4L Natural Gas Vehicle (NGV)



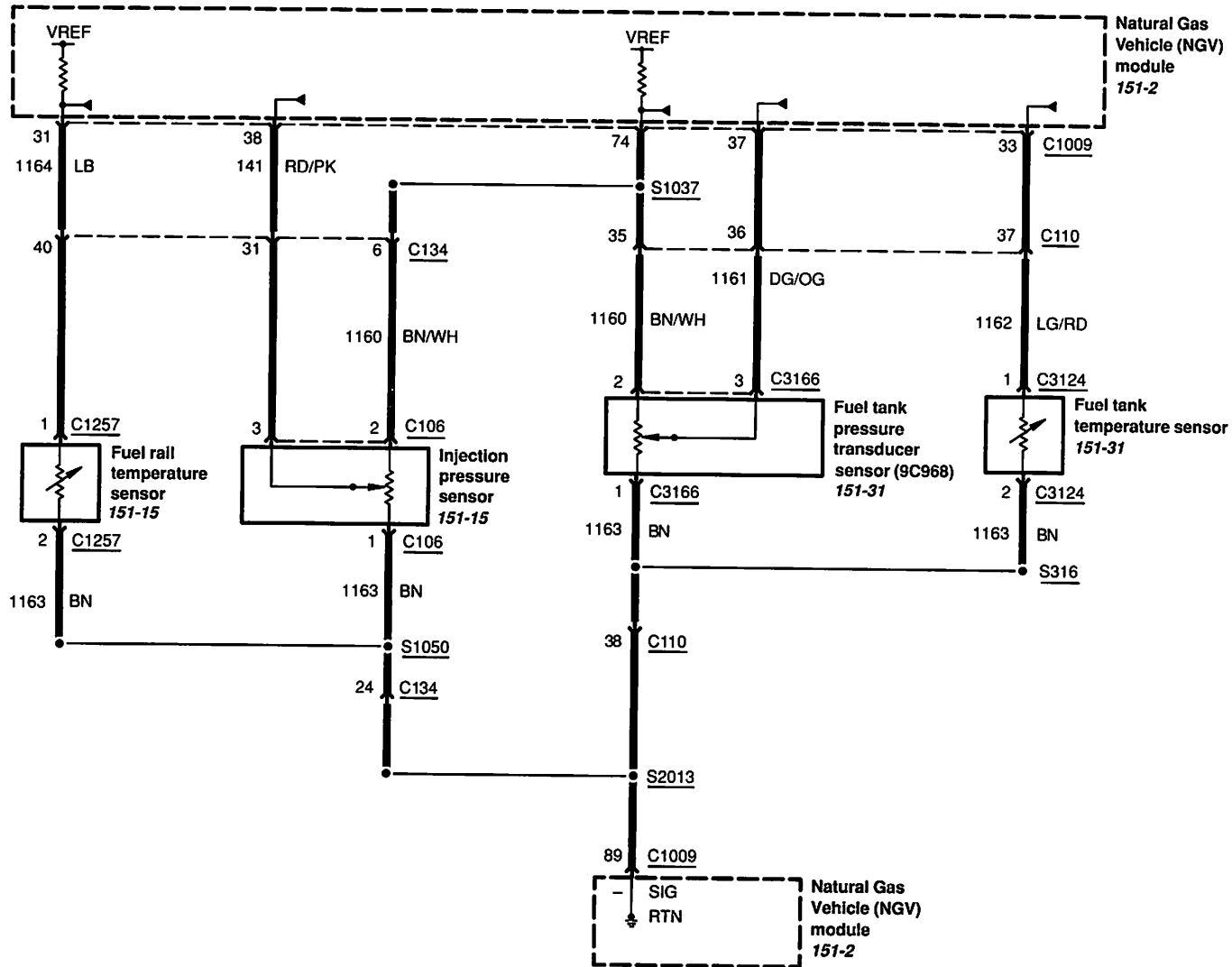
5.4L Natural Gas Vehicle (NGV)



5.4L Natural Gas Vehicle

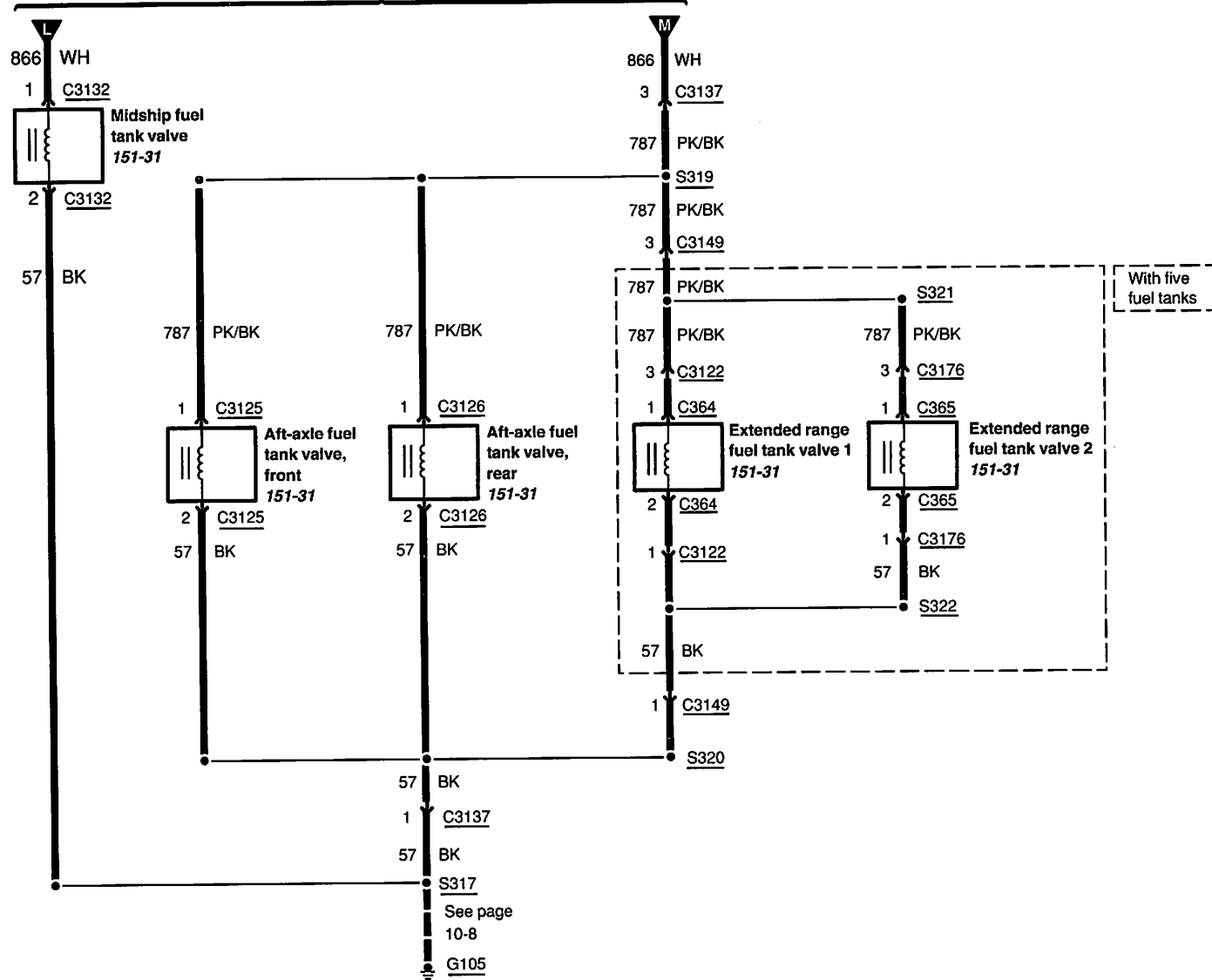


5.4L Natural Gas Vehicle (NGV)

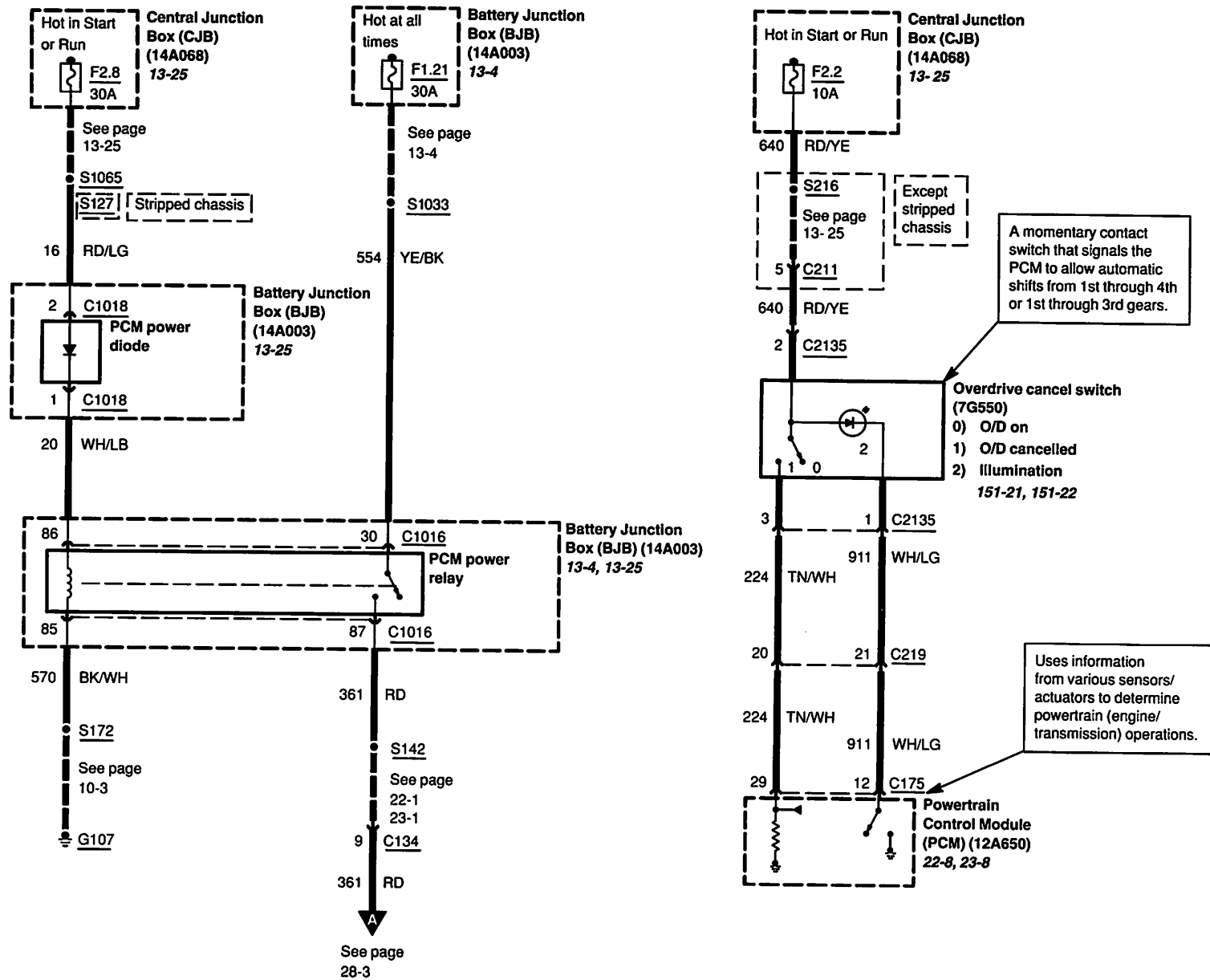


5.4L Natural Gas Vehicle (NGV)

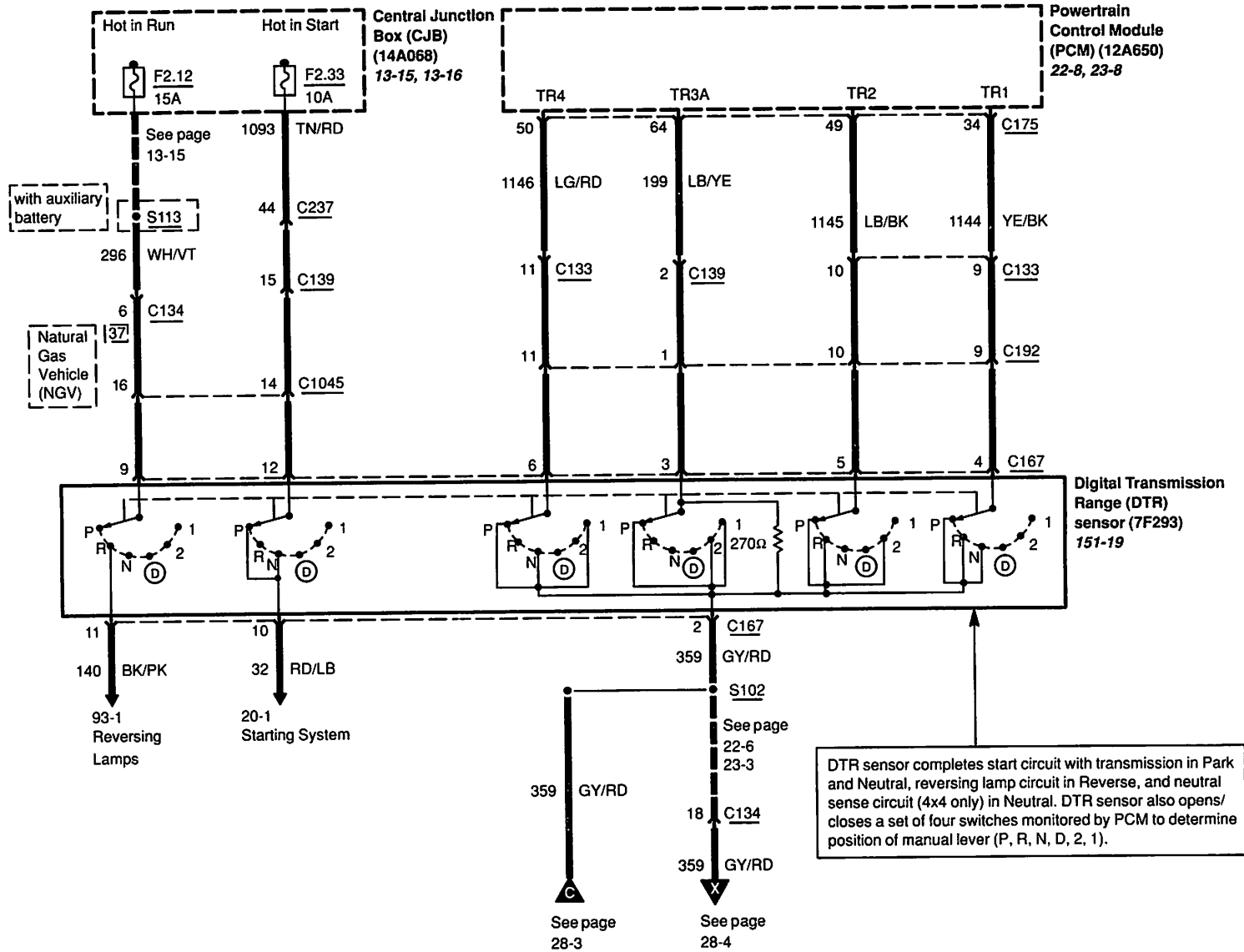
See page
26-9



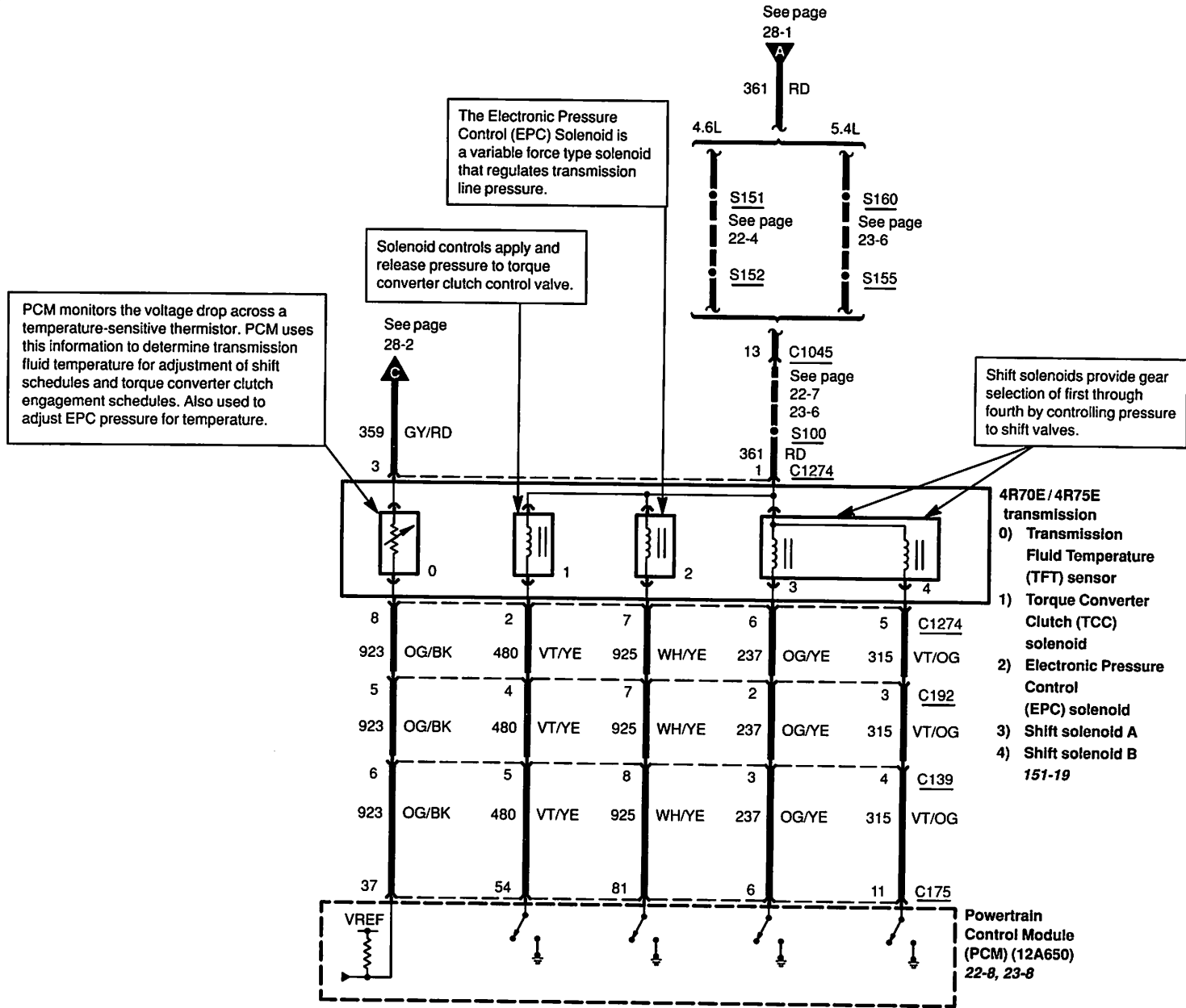
4R70E/
4R75E



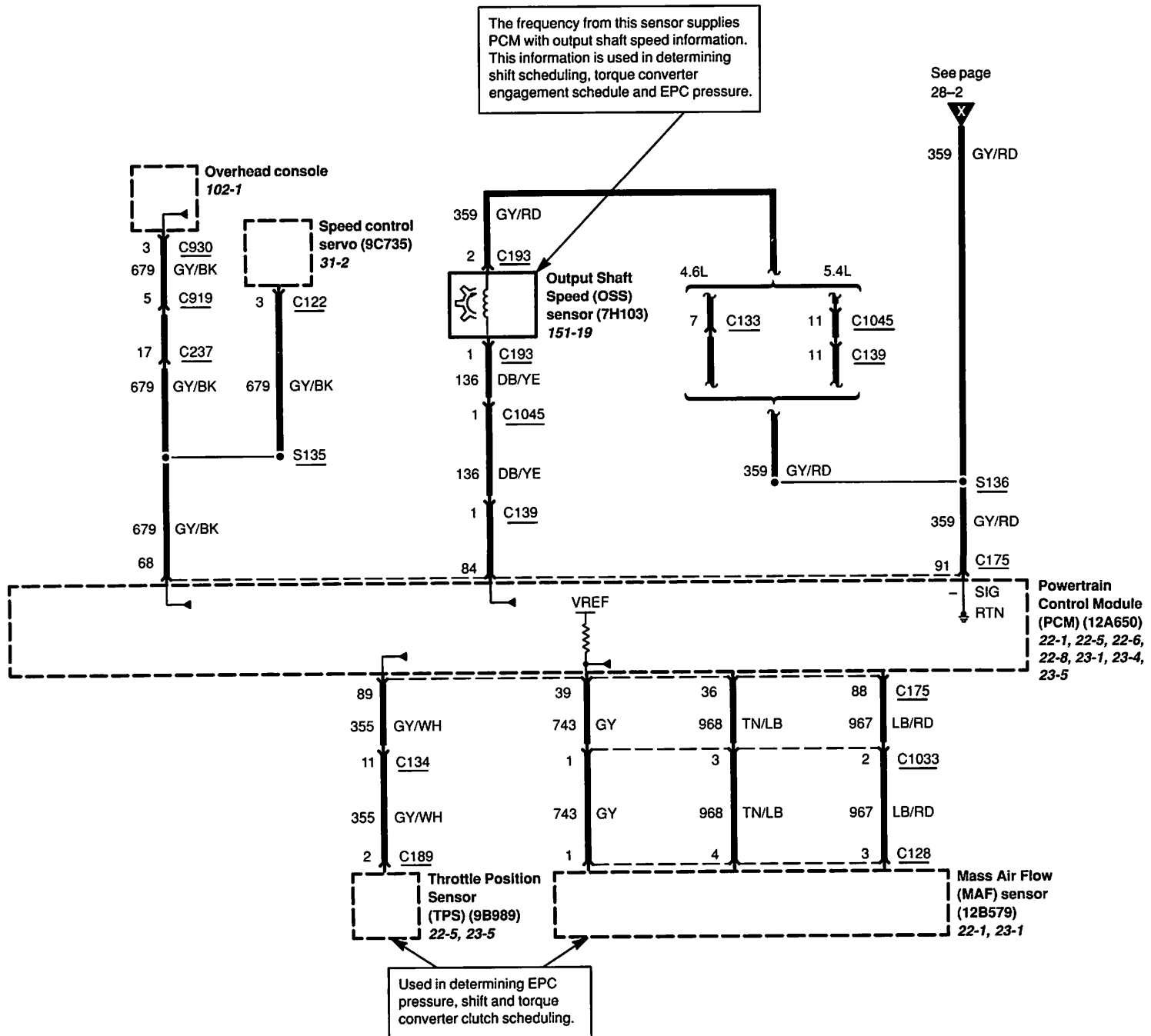
4R70E/
4R75E



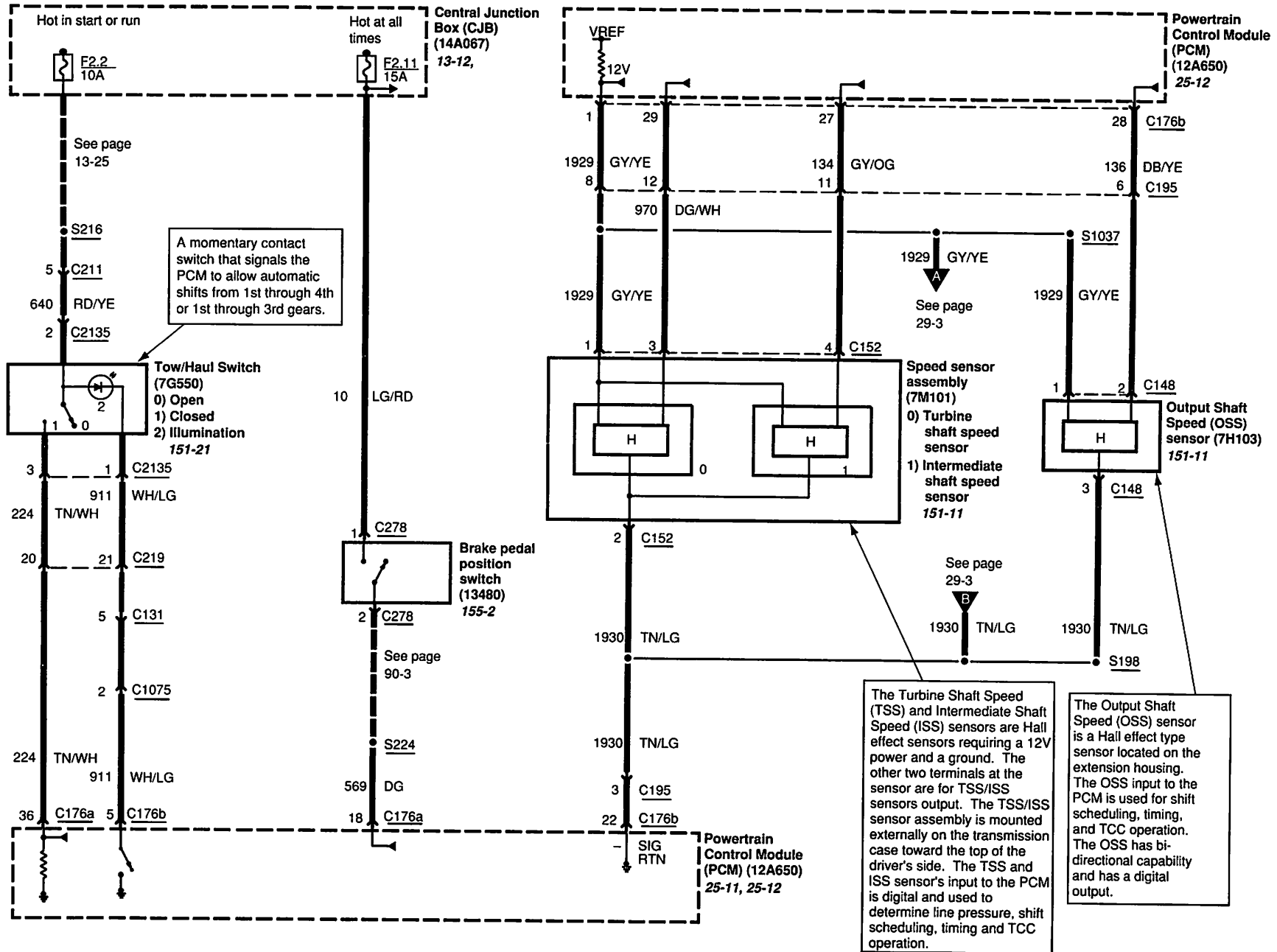
4R70E/
4R75E



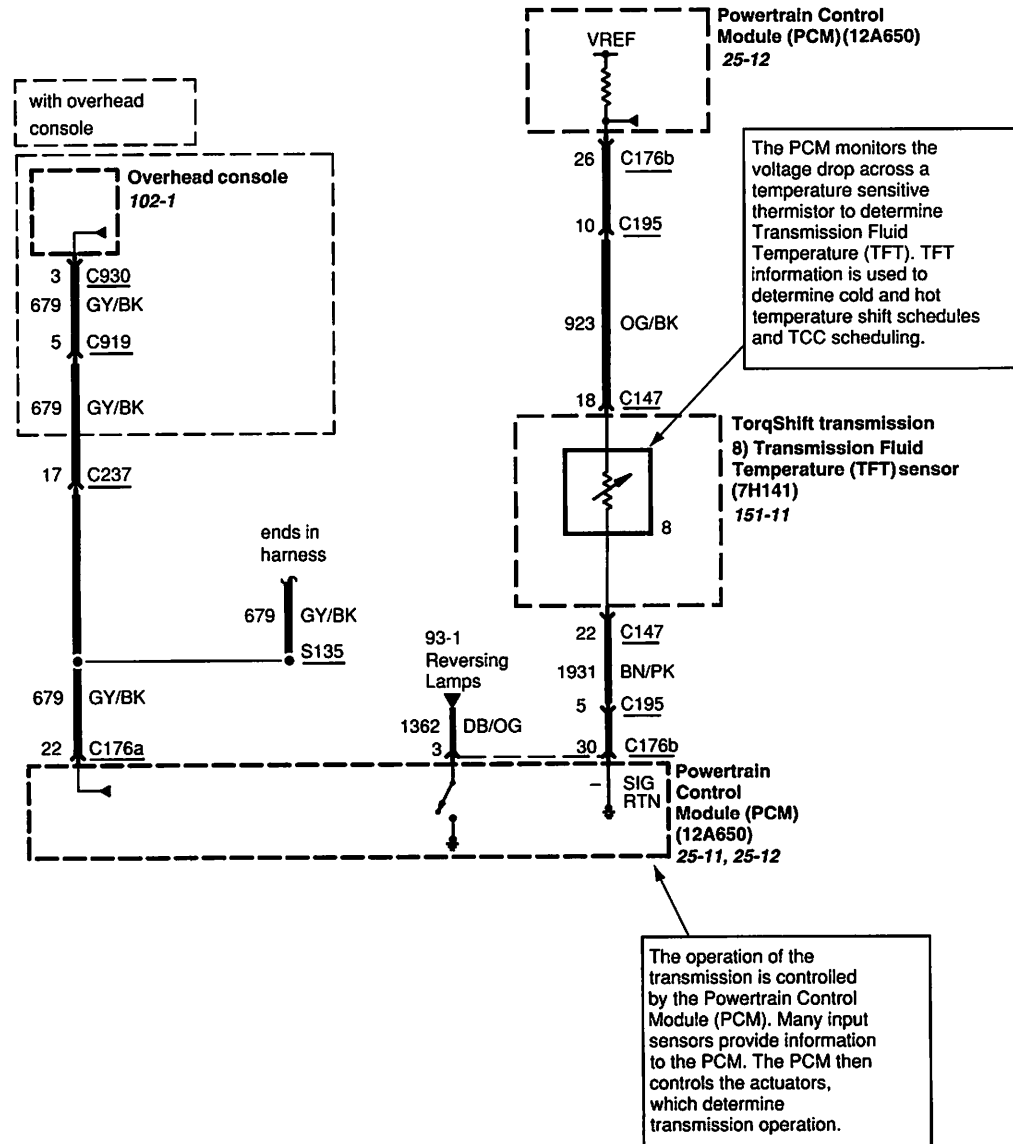
4R70E/
4R75E



TorqShift



TorqShift

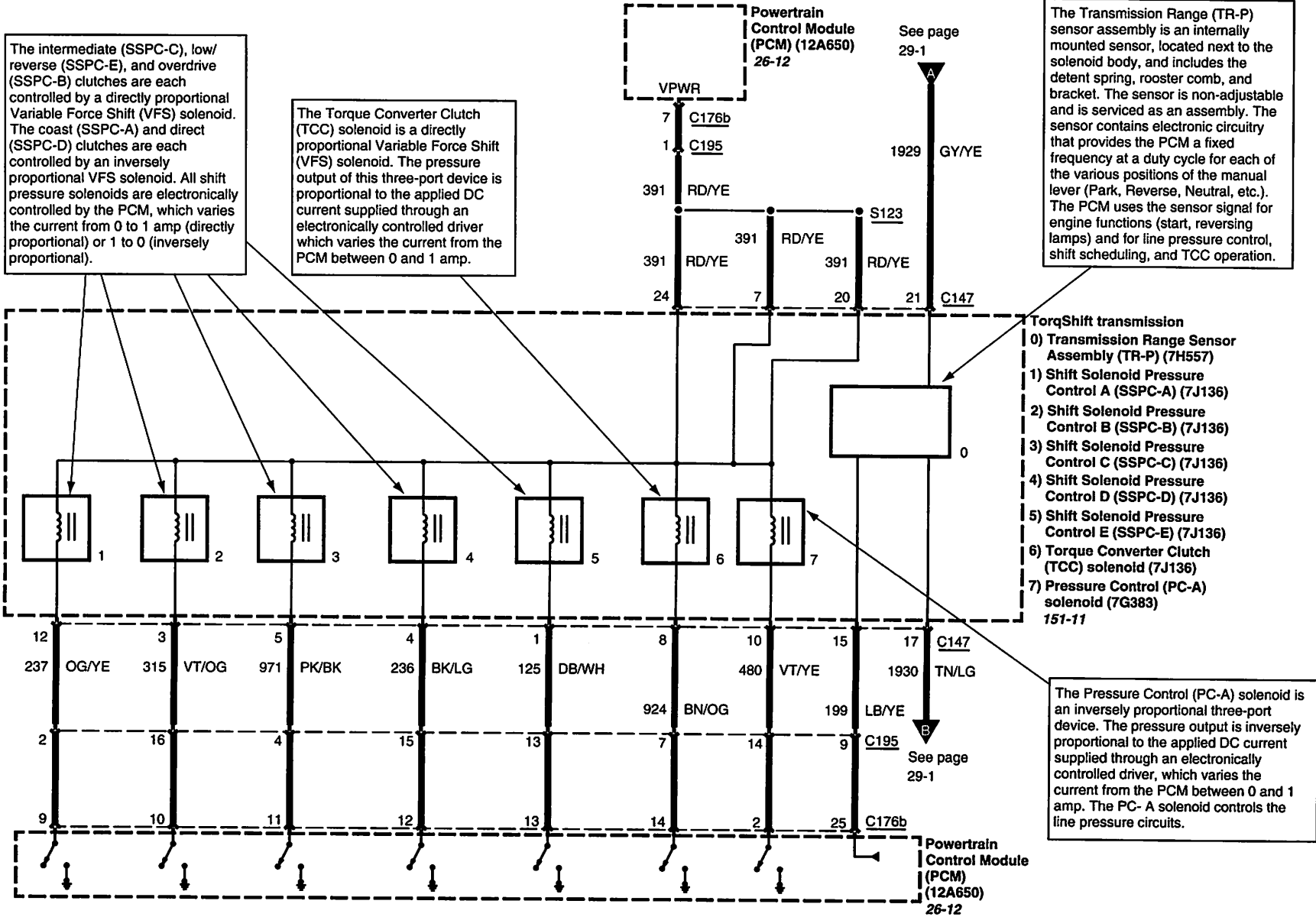


TorqShift

The intermediate (SSPC-C), low/reverse (SSPC-E), and overdrive (SSPC-B) clutches are each controlled by a directly proportional Variable Force Shift (VFS) solenoid. The coast (SSPC-A) and direct (SSPC-D) clutches are each controlled by an inversely proportional VFS solenoid. All shift pressure solenoids are electronically controlled by the PCM, which varies the current from 0 to 1 amp (directly proportional) or 1 to 0 (inversely proportional).

The Torque Converter Clutch (TCC) solenoid is a directly proportional Variable Force Shift (VFS) solenoid. The pressure output of this three-port device is proportional to the applied DC current supplied through an electronically controlled driver which varies the current from the PCM between 0 and 1 amp.

The Transmission Range (TR-P) sensor assembly is an internally mounted sensor, located next to the solenoid body, and includes the detent spring, rooster comb, and bracket. The sensor is non-adjustable and is serviced as an assembly. The sensor contains electronic circuitry that provides the PCM a fixed frequency at a duty cycle for each of the various positions of the manual lever (Park, Reverse, Neutral, etc.). The PCM uses the sensor signal for engine functions (start, reversing lamps) and for line pressure control, shift scheduling, and TCC operation.

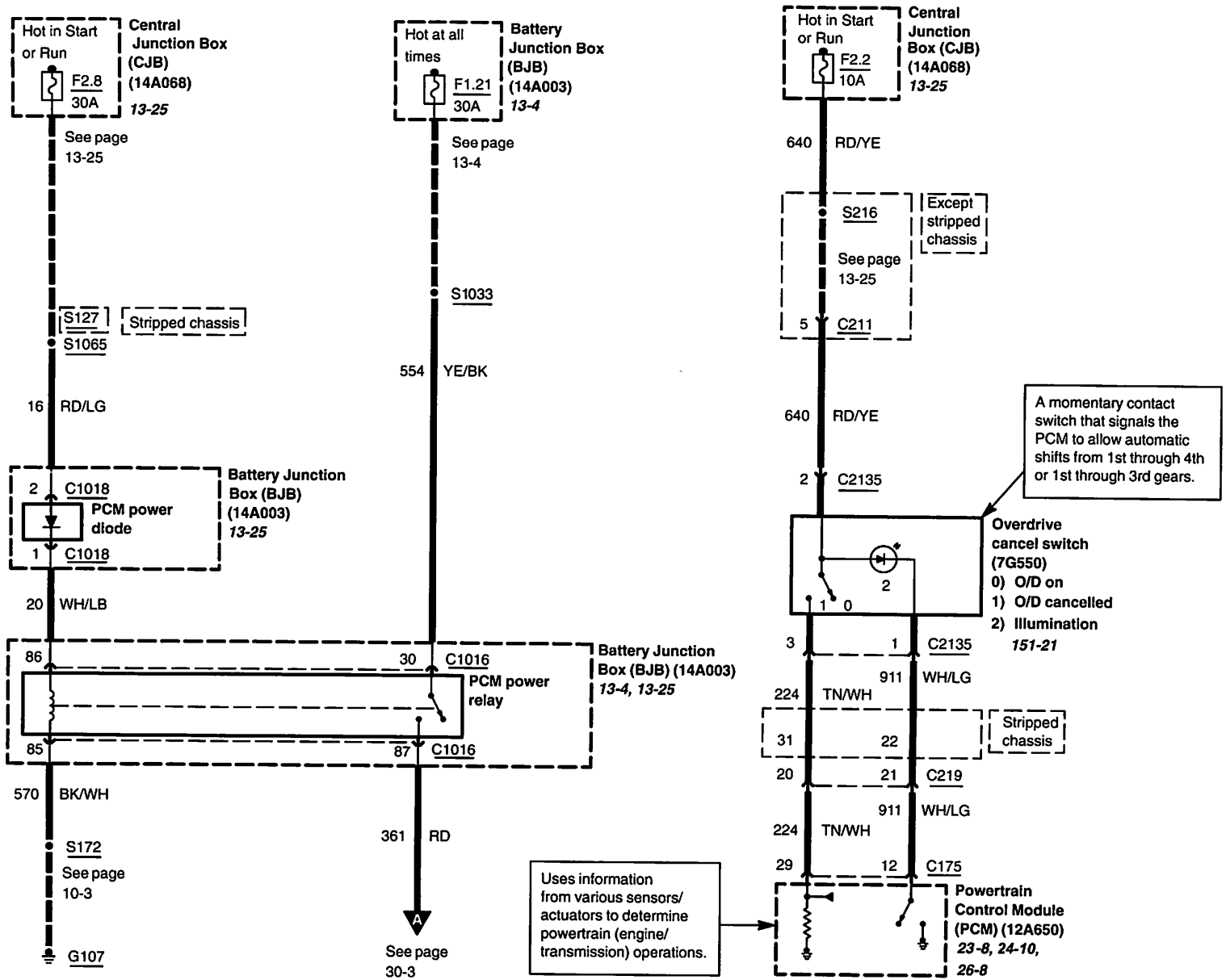


- TorqShift transmission
- 0) Transmission Range Sensor Assembly (TR-P) (7H557)
 - 1) Shift Solenoid Pressure Control A (SSPC-A) (7J136)
 - 2) Shift Solenoid Pressure Control B (SSPC-B) (7J136)
 - 3) Shift Solenoid Pressure Control C (SSPC-C) (7J136)
 - 4) Shift Solenoid Pressure Control D (SSPC-D) (7J136)
 - 5) Shift Solenoid Pressure Control E (SSPC-E) (7J136)
 - 6) Torque Converter Clutch (TCC) solenoid (7J136)
 - 7) Pressure Control (PC-A) solenoid (7G383) 151-11

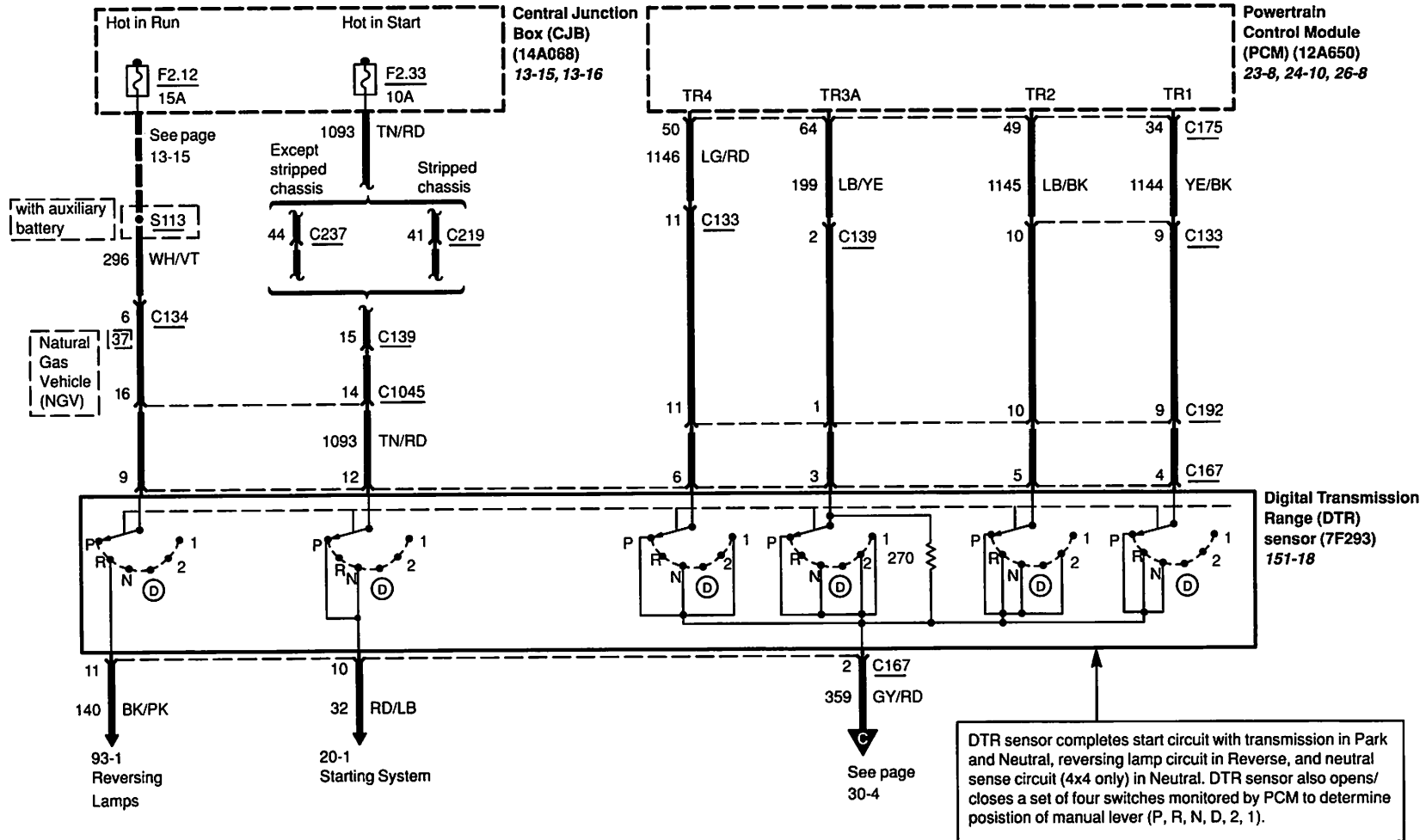
The Pressure Control (PC-A) solenoid is an inversely proportional three-port device. The pressure output is inversely proportional to the applied DC current supplied through an electronically controlled driver, which varies the current from the PCM between 0 and 1 amp. The PC- A solenoid controls the line pressure circuits.

Notes

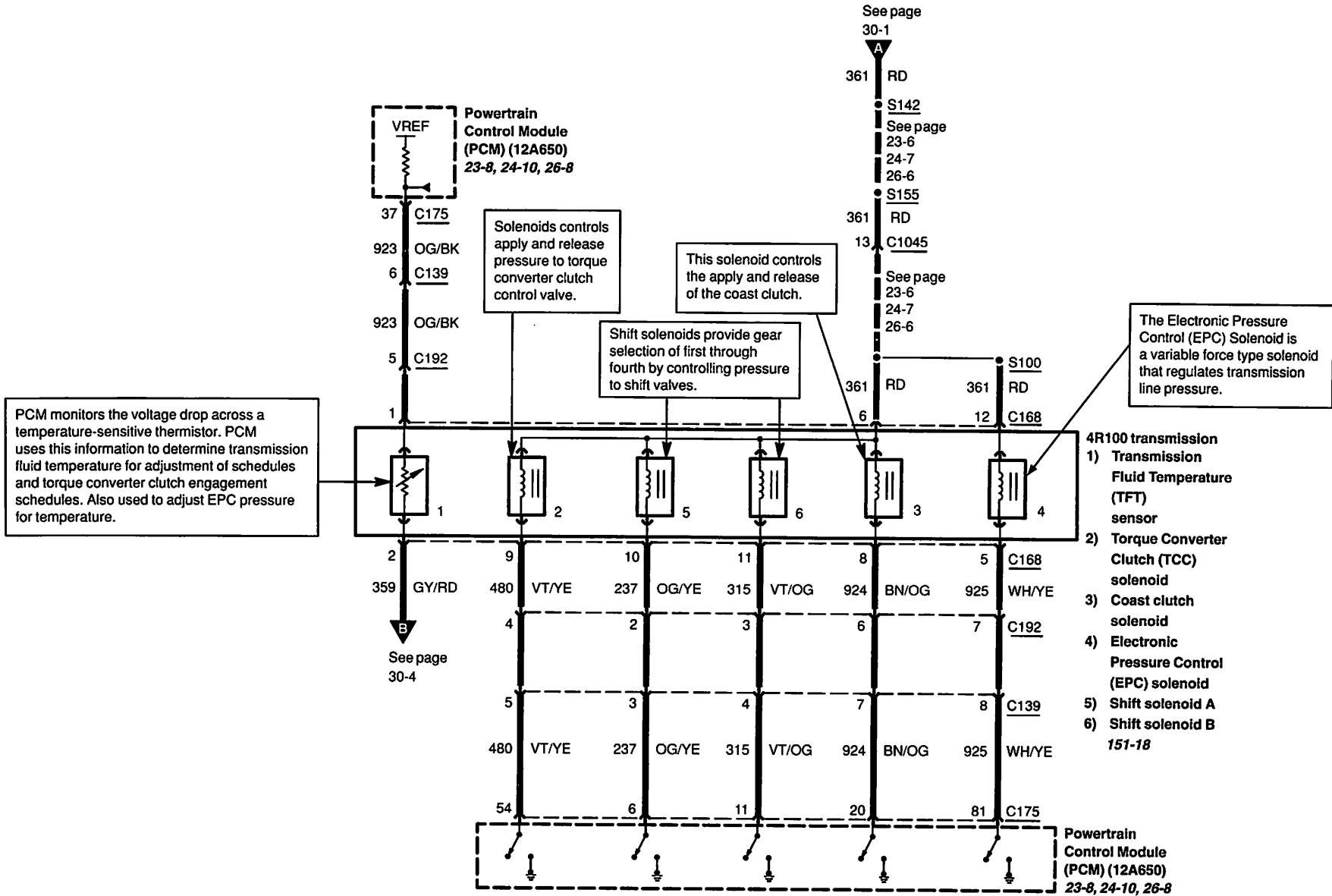
4R100



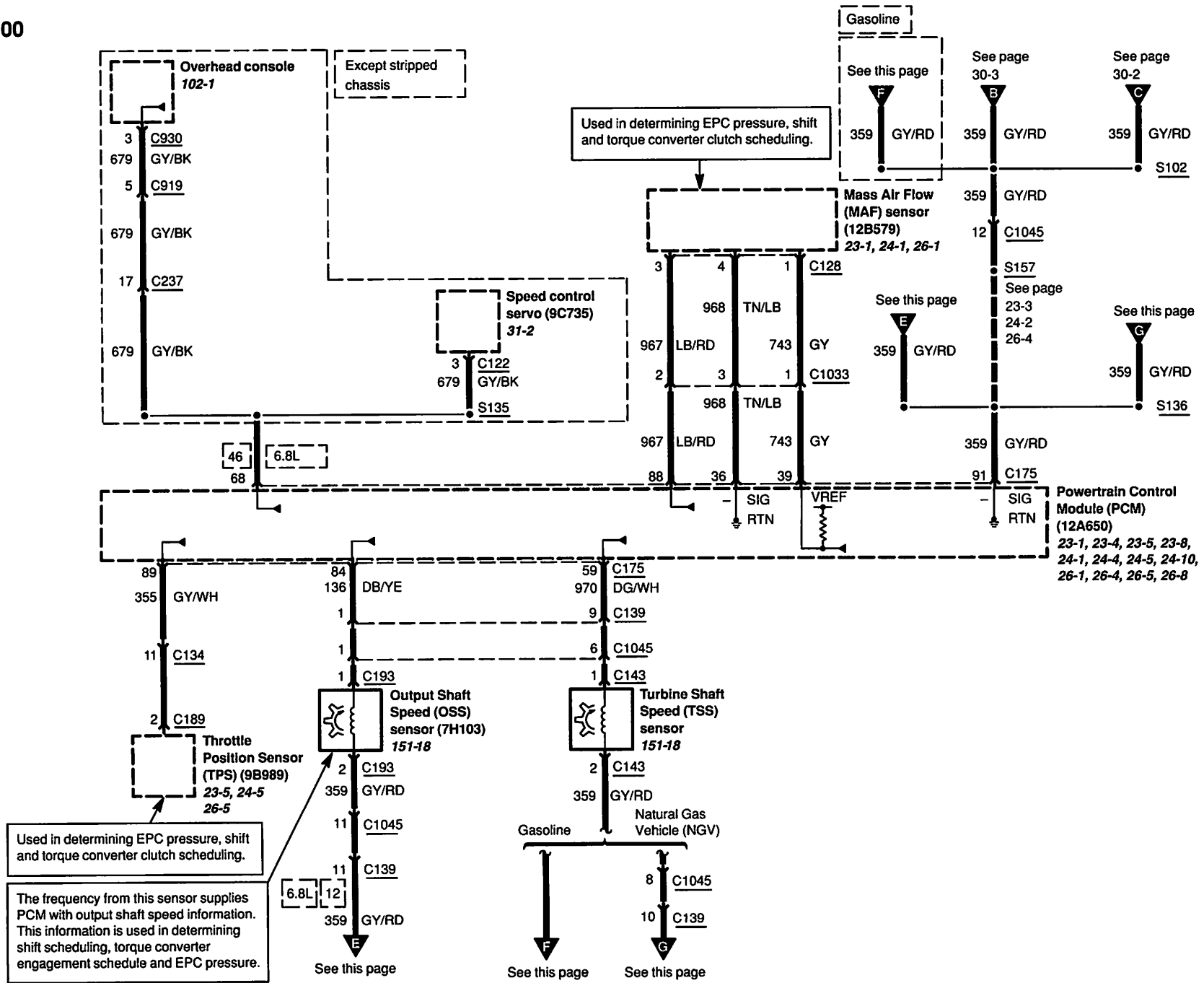
4R100



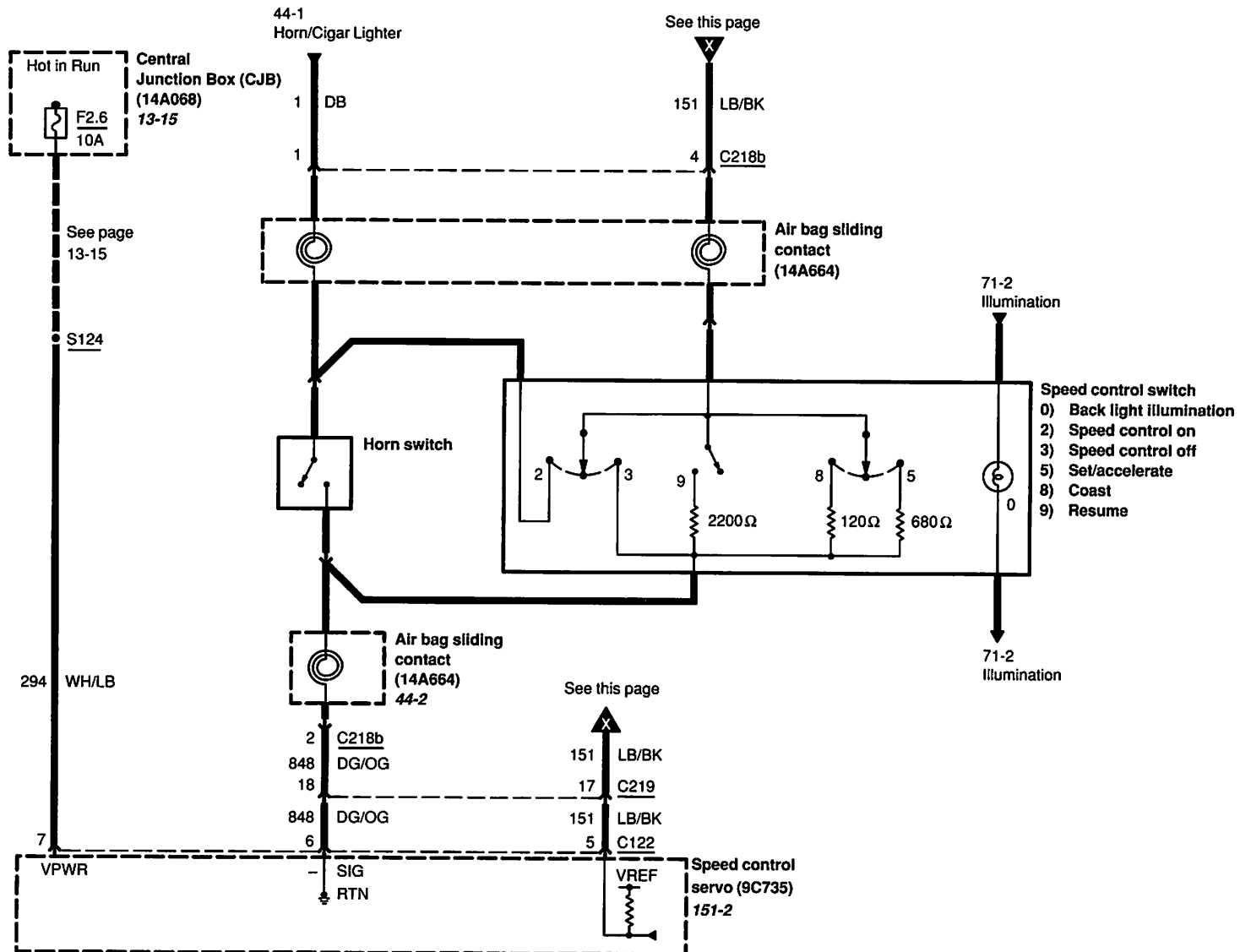
4R100



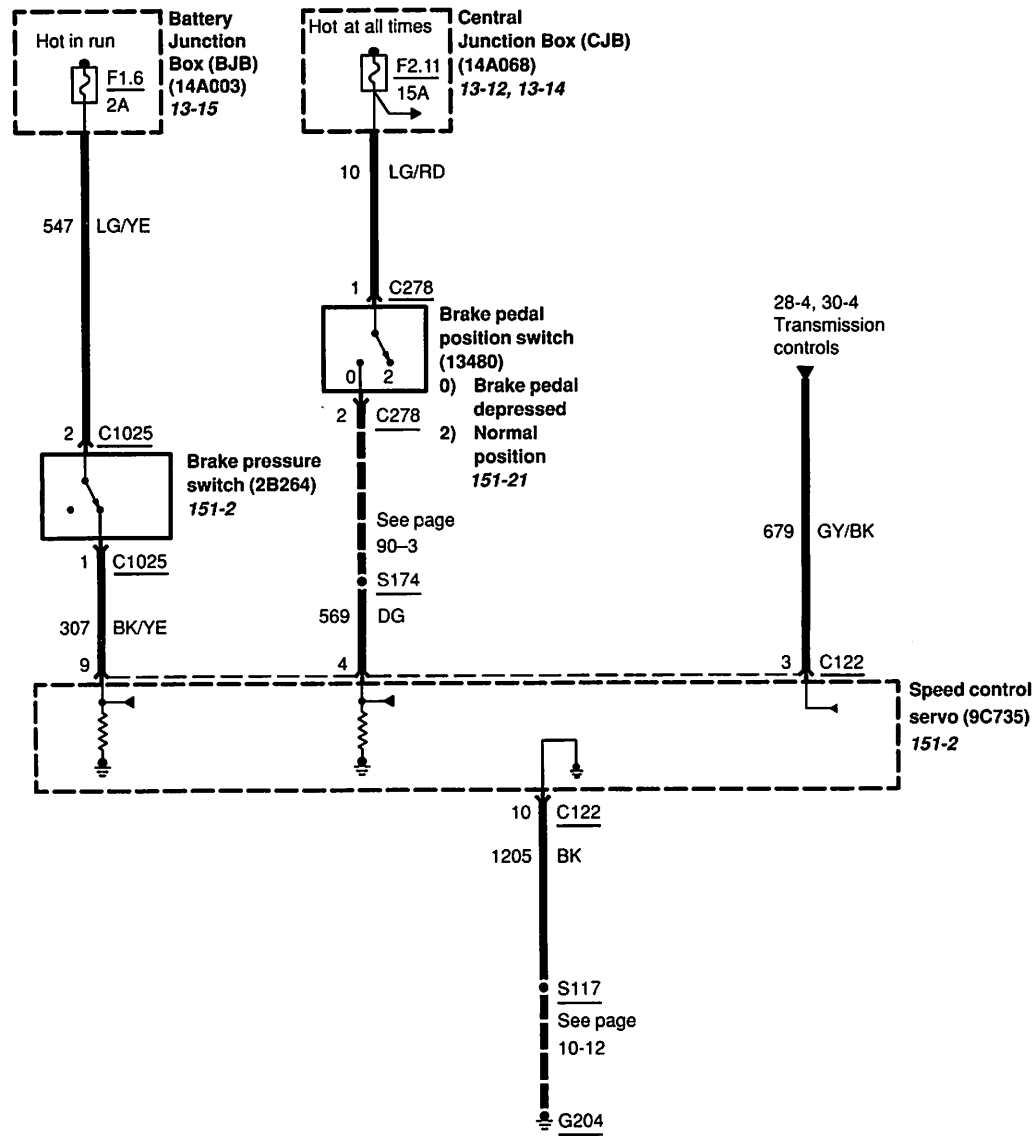
4R100



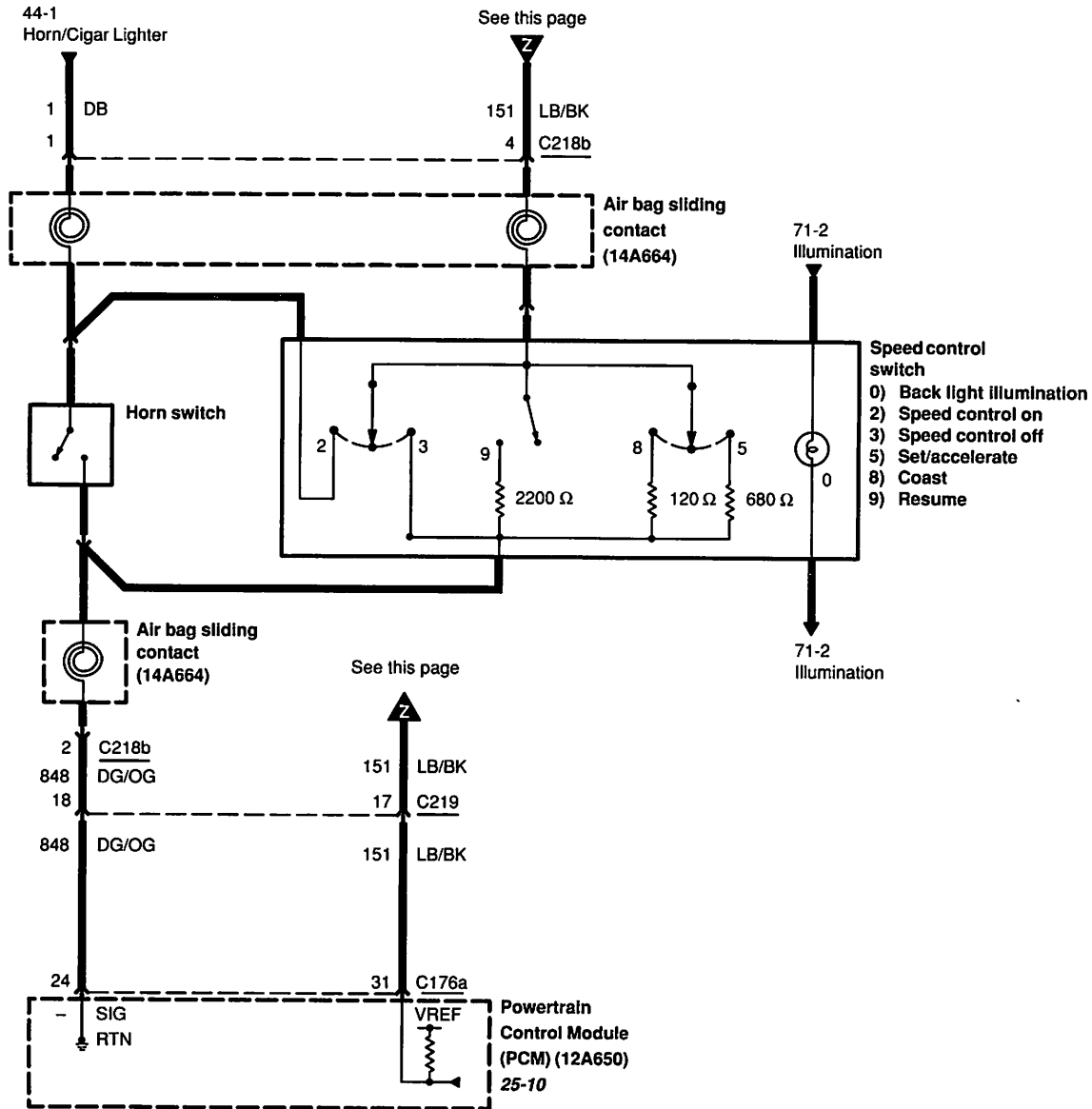
Except diesel



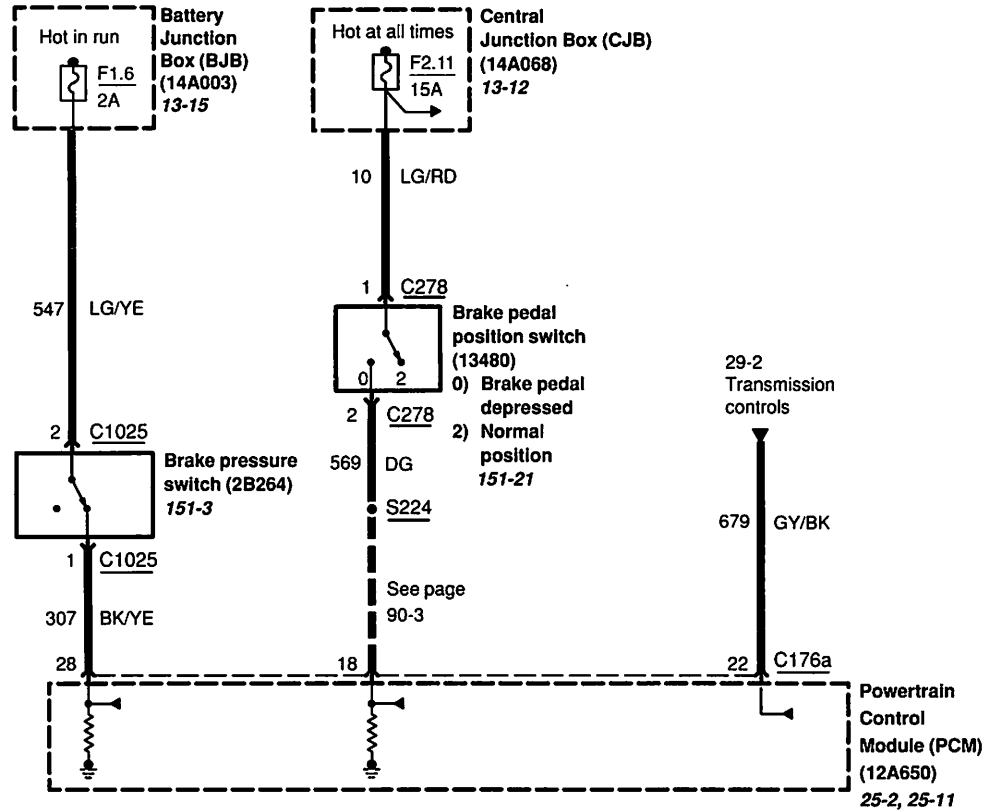
Except diesel



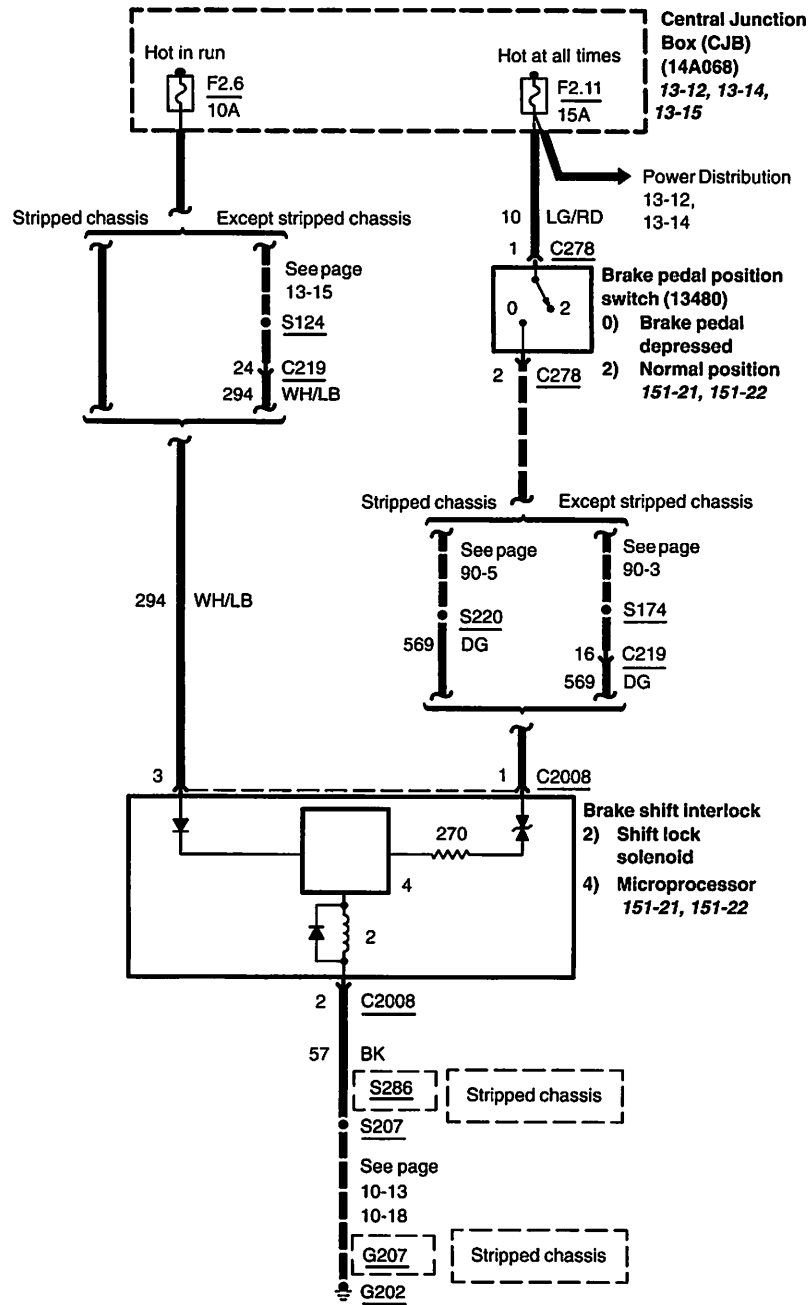
Diesel



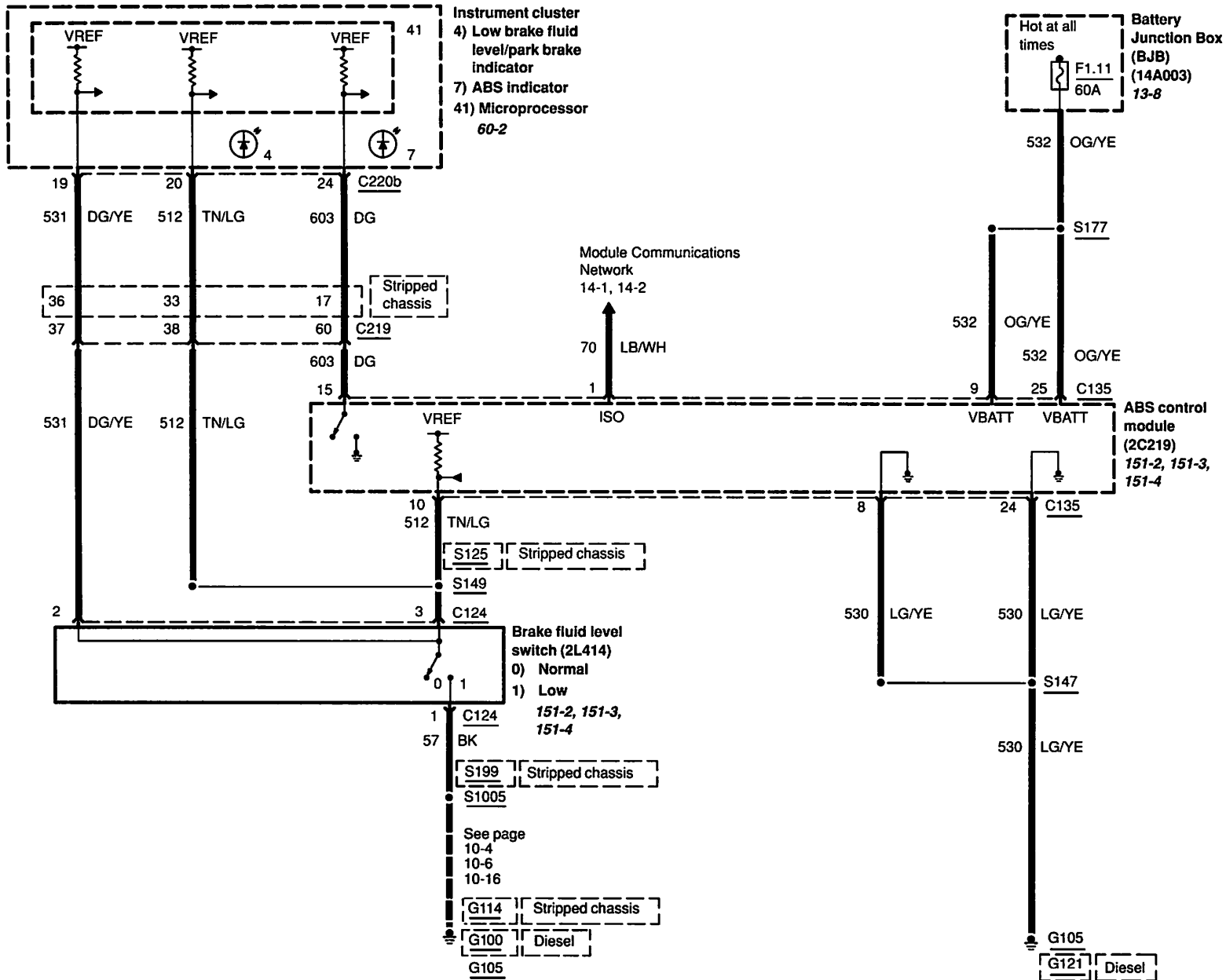
Diesel

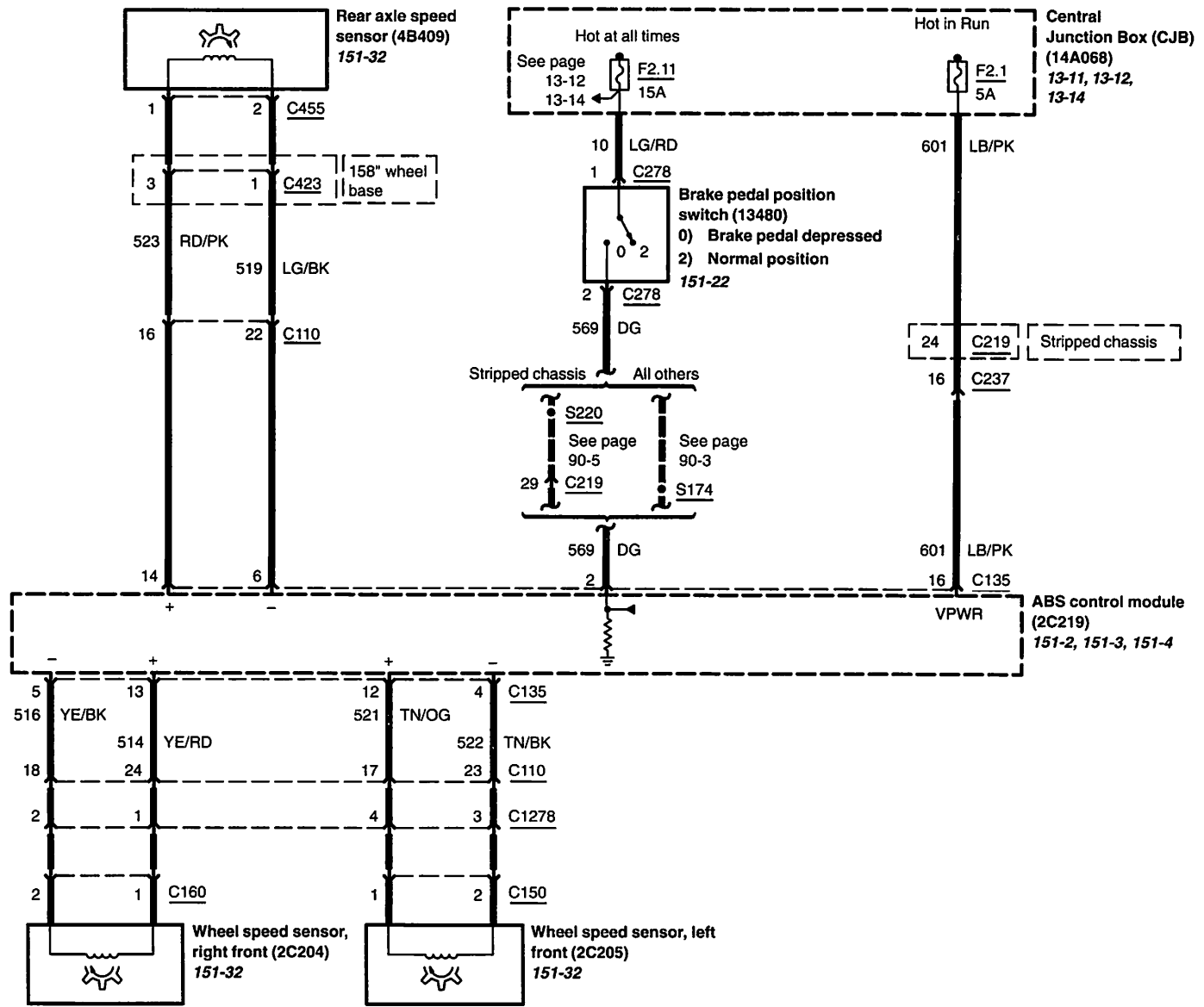


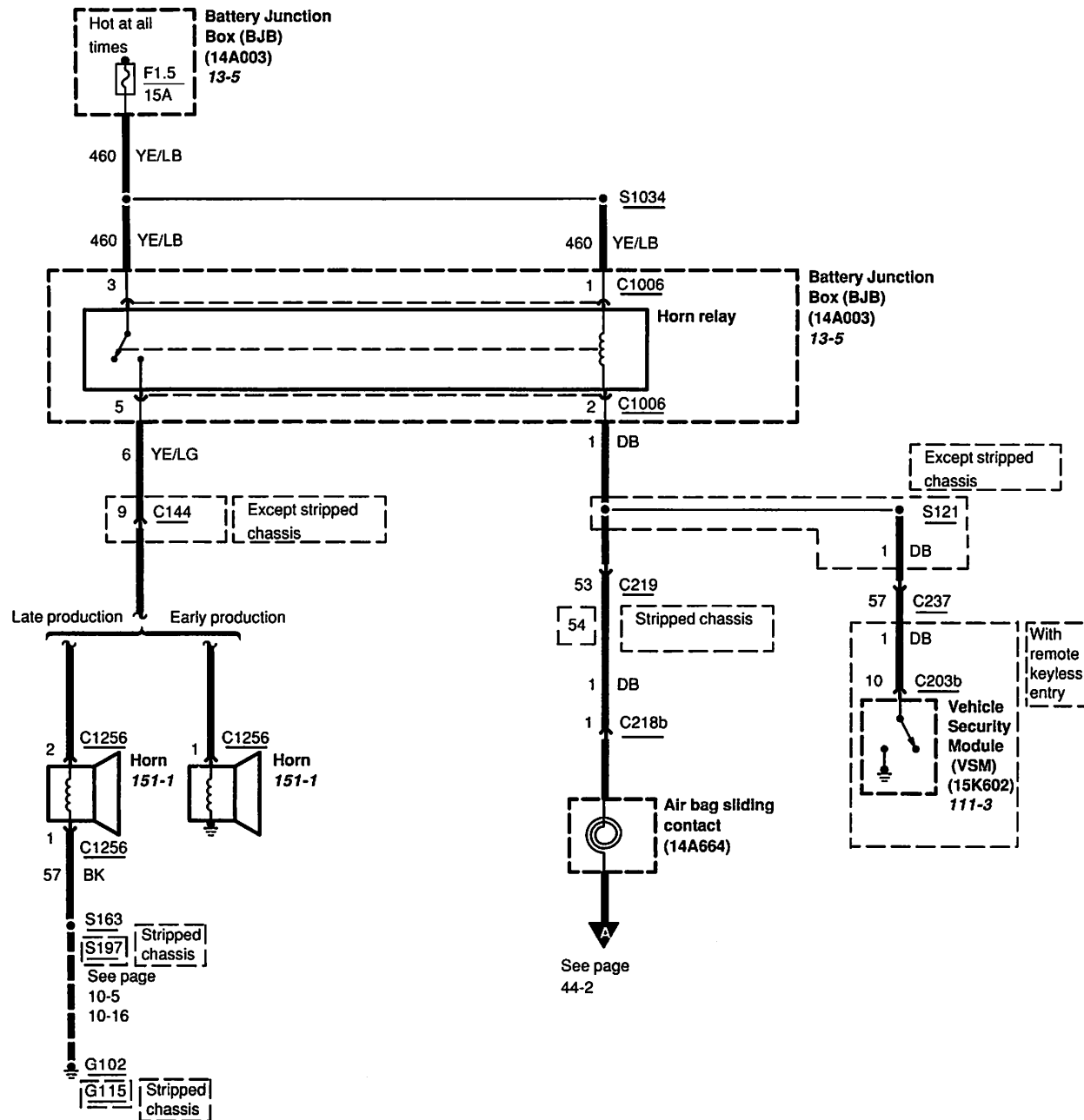
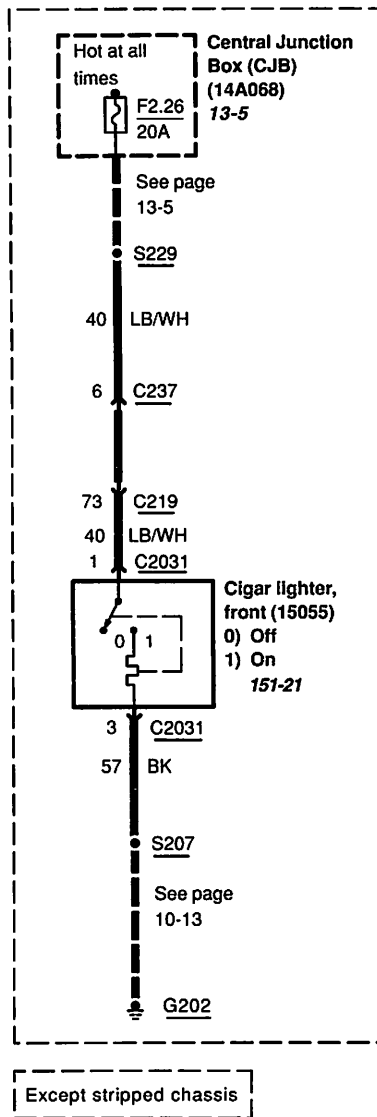
Notes

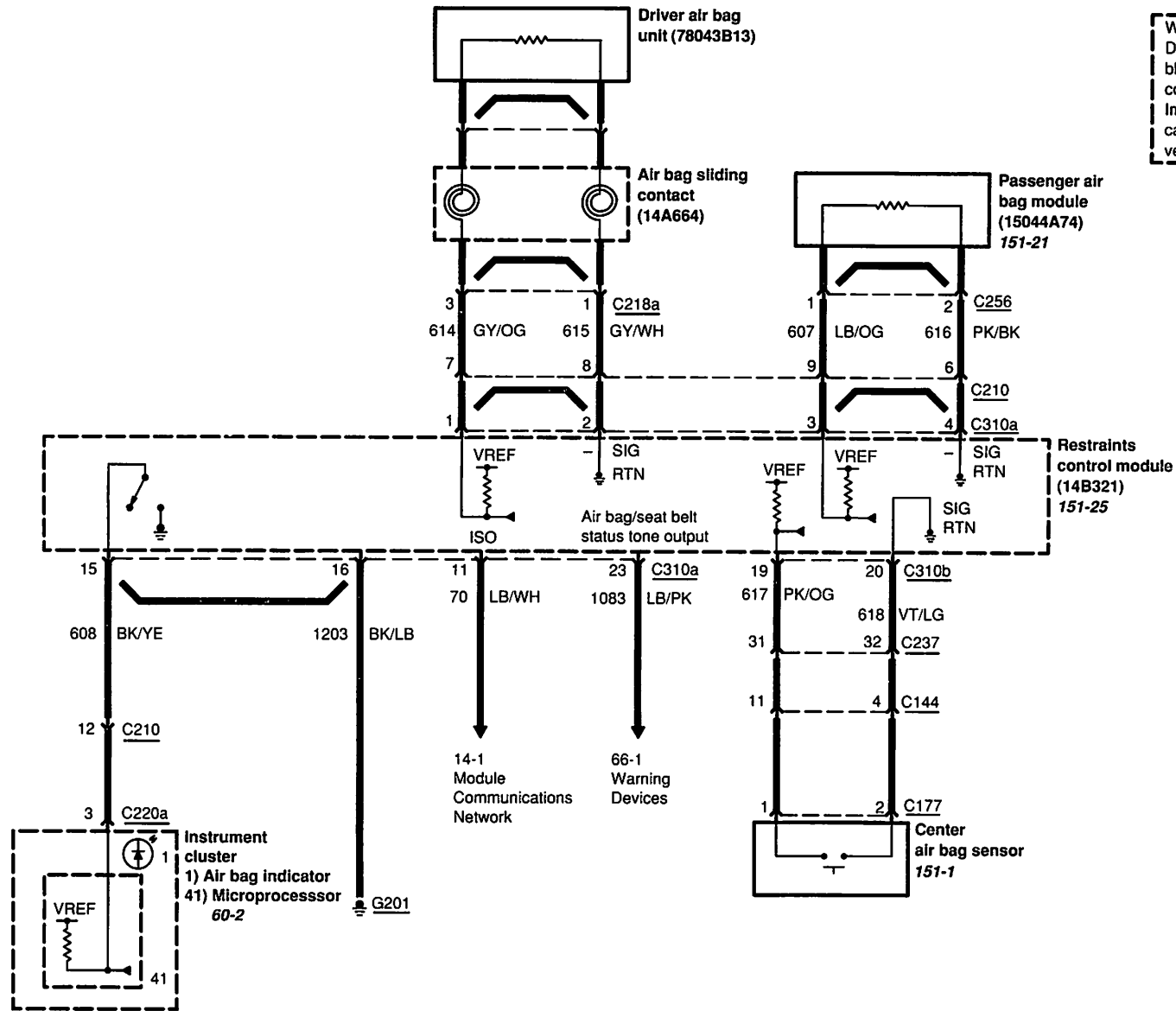


Notes

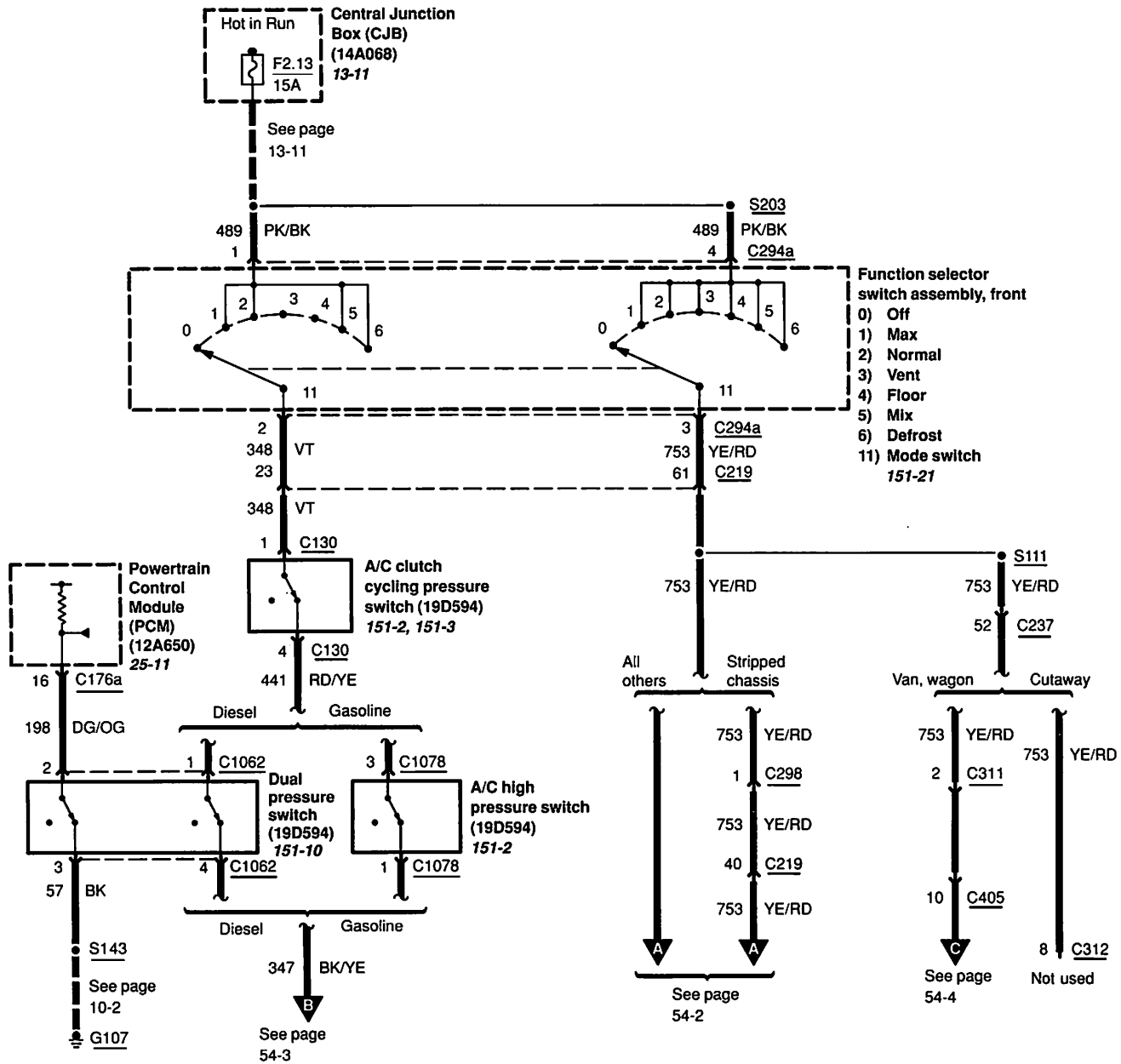


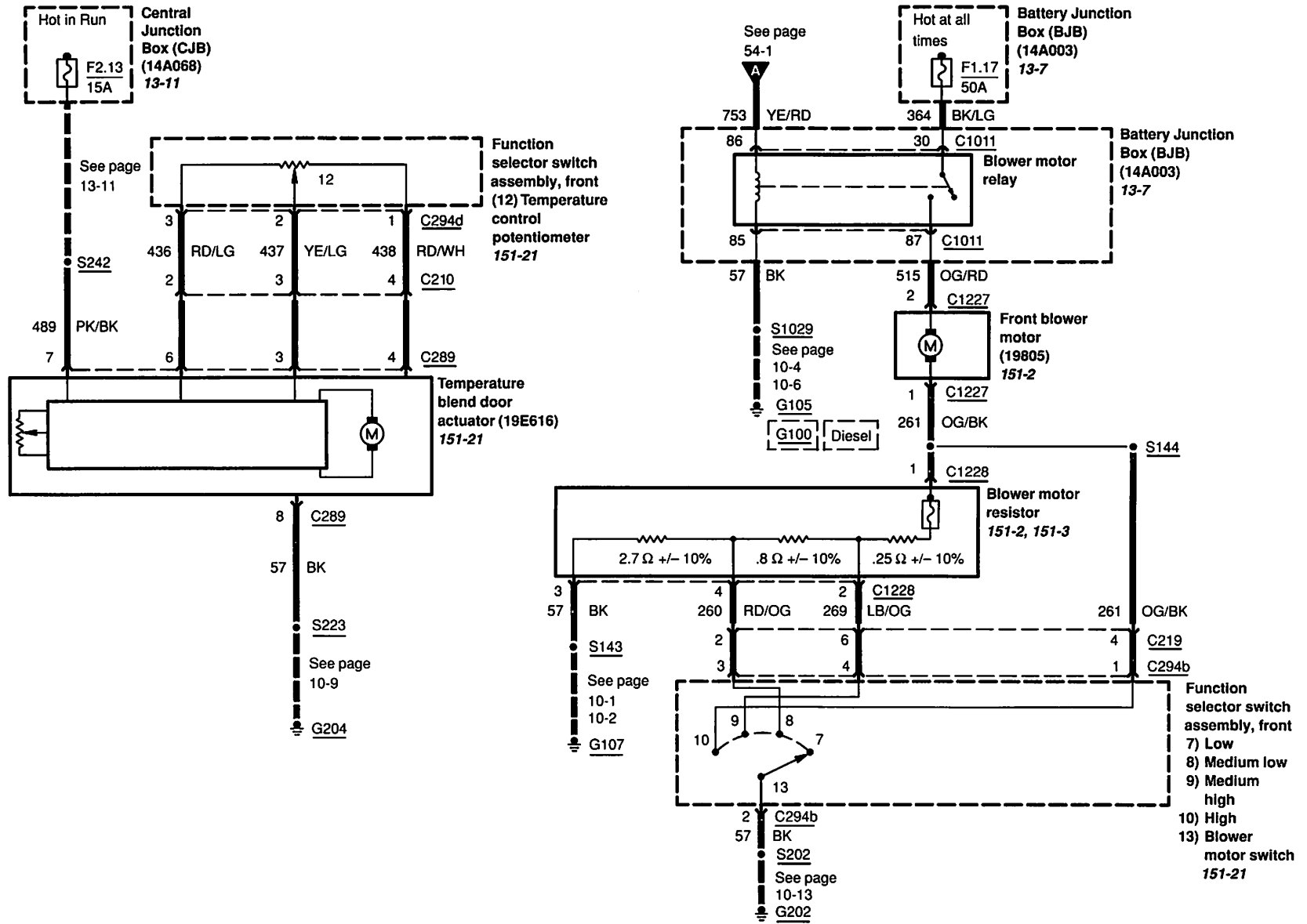




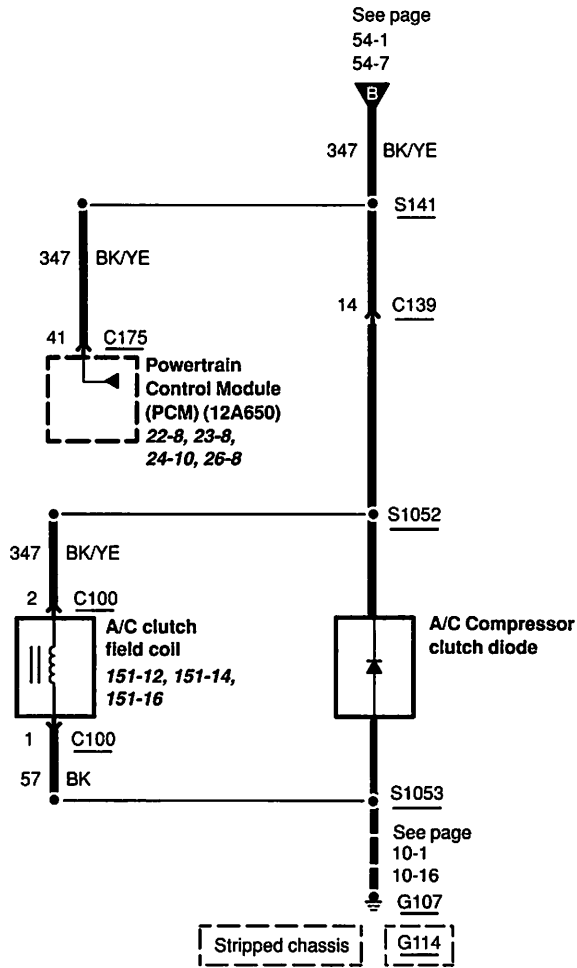


Warning
 Do not attempt to diagnose or troubleshoot air bag circuitry without consulting the Workshop Manual. Improper troubleshooting could cause the air bags to deploy inadvertently, causing injury.

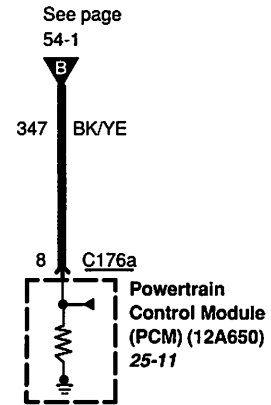


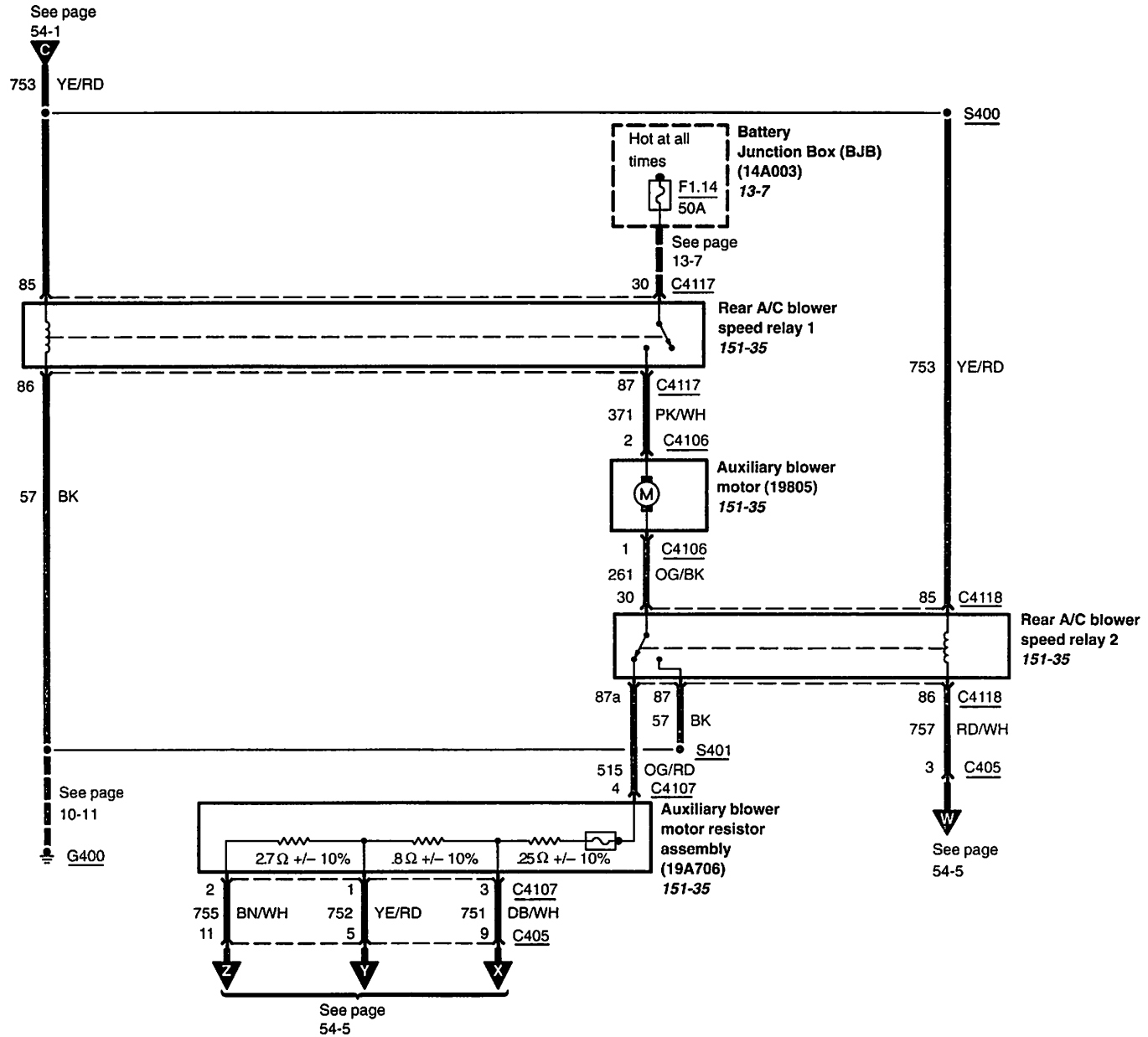


Except diesel

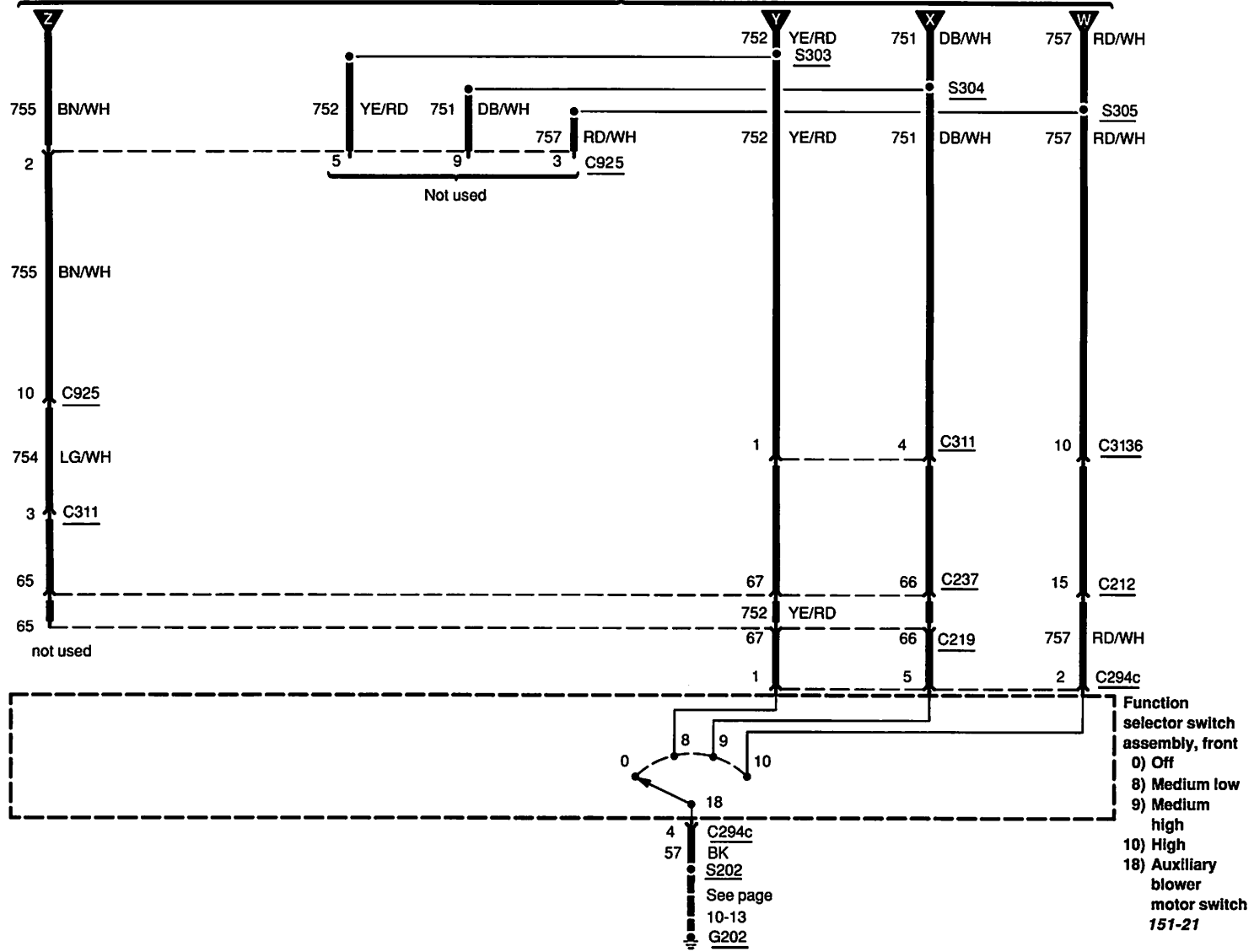


Diesel

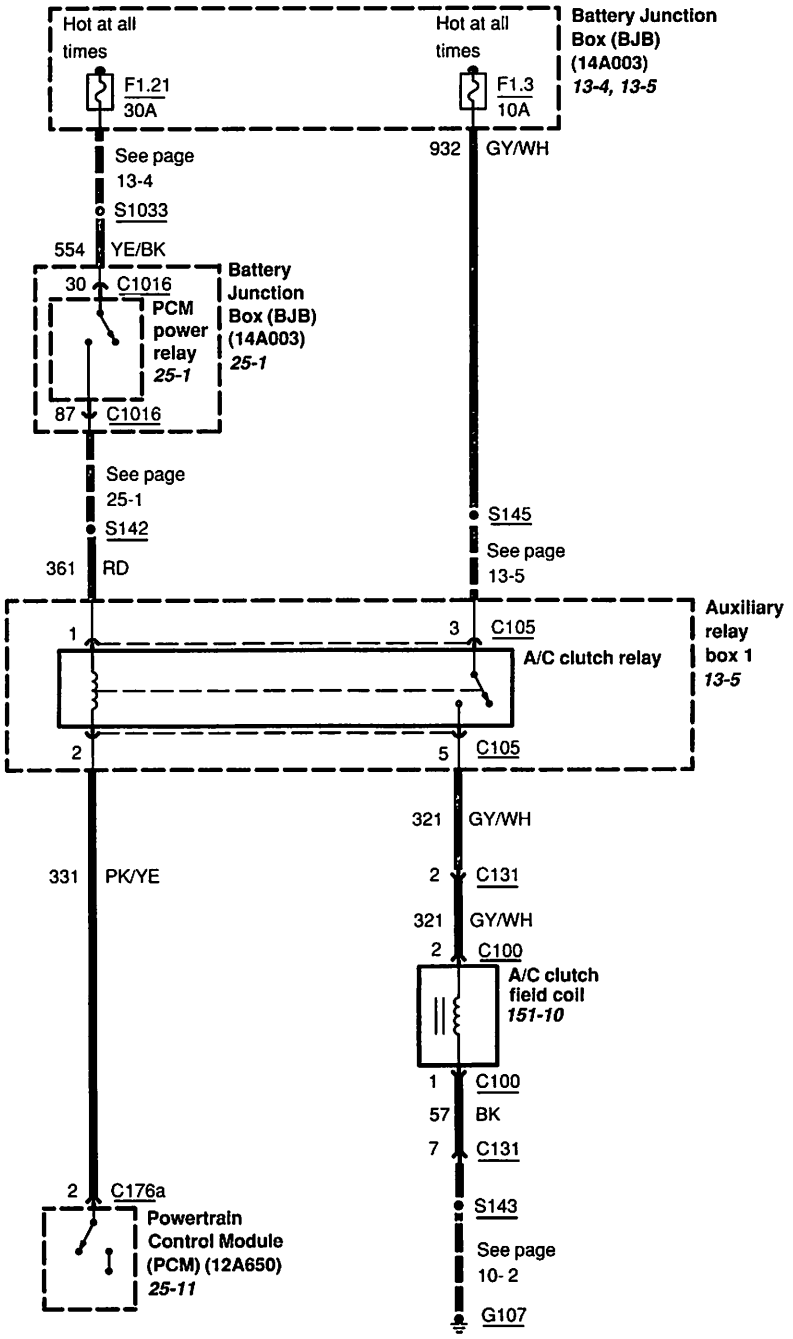




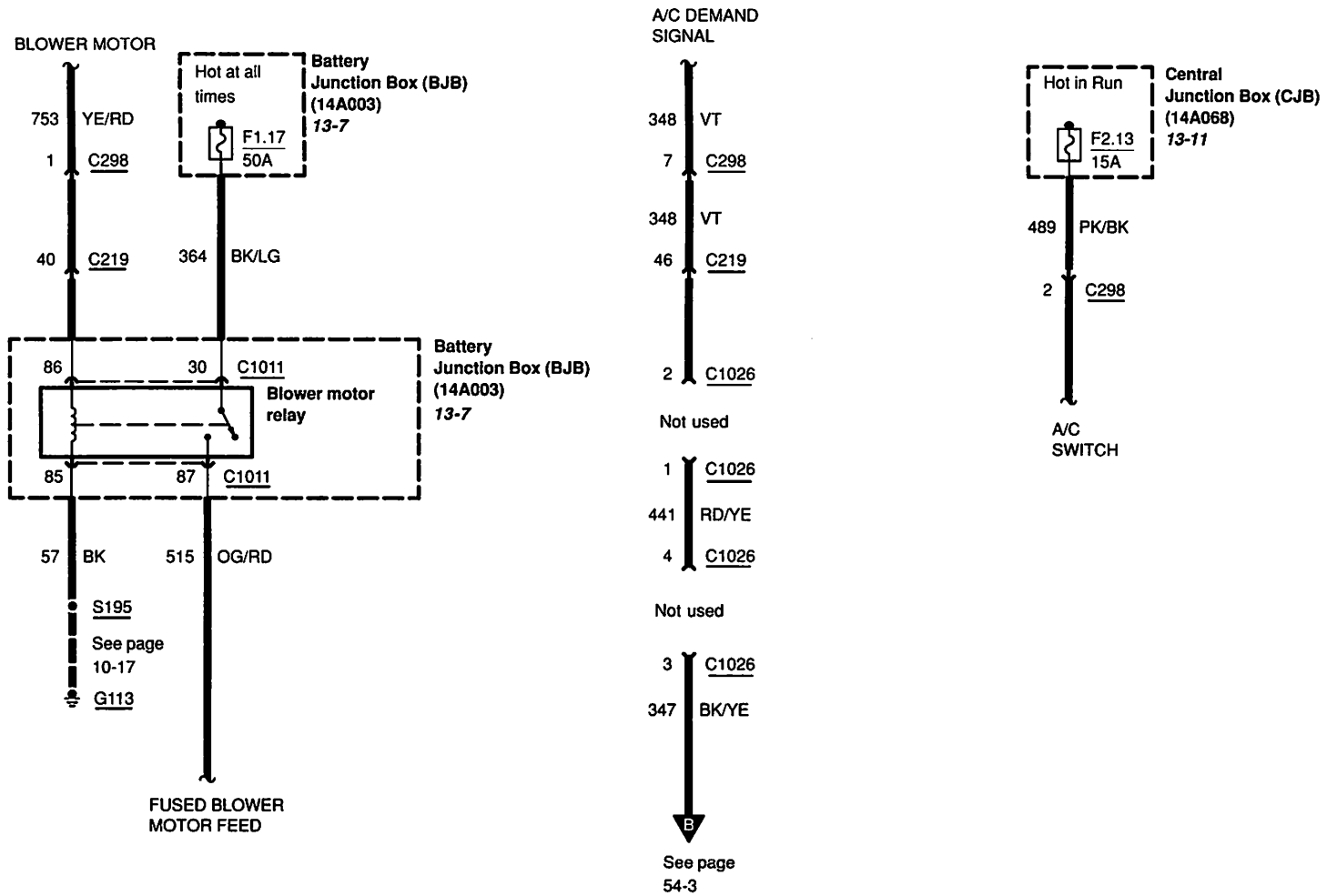
See page
54-4



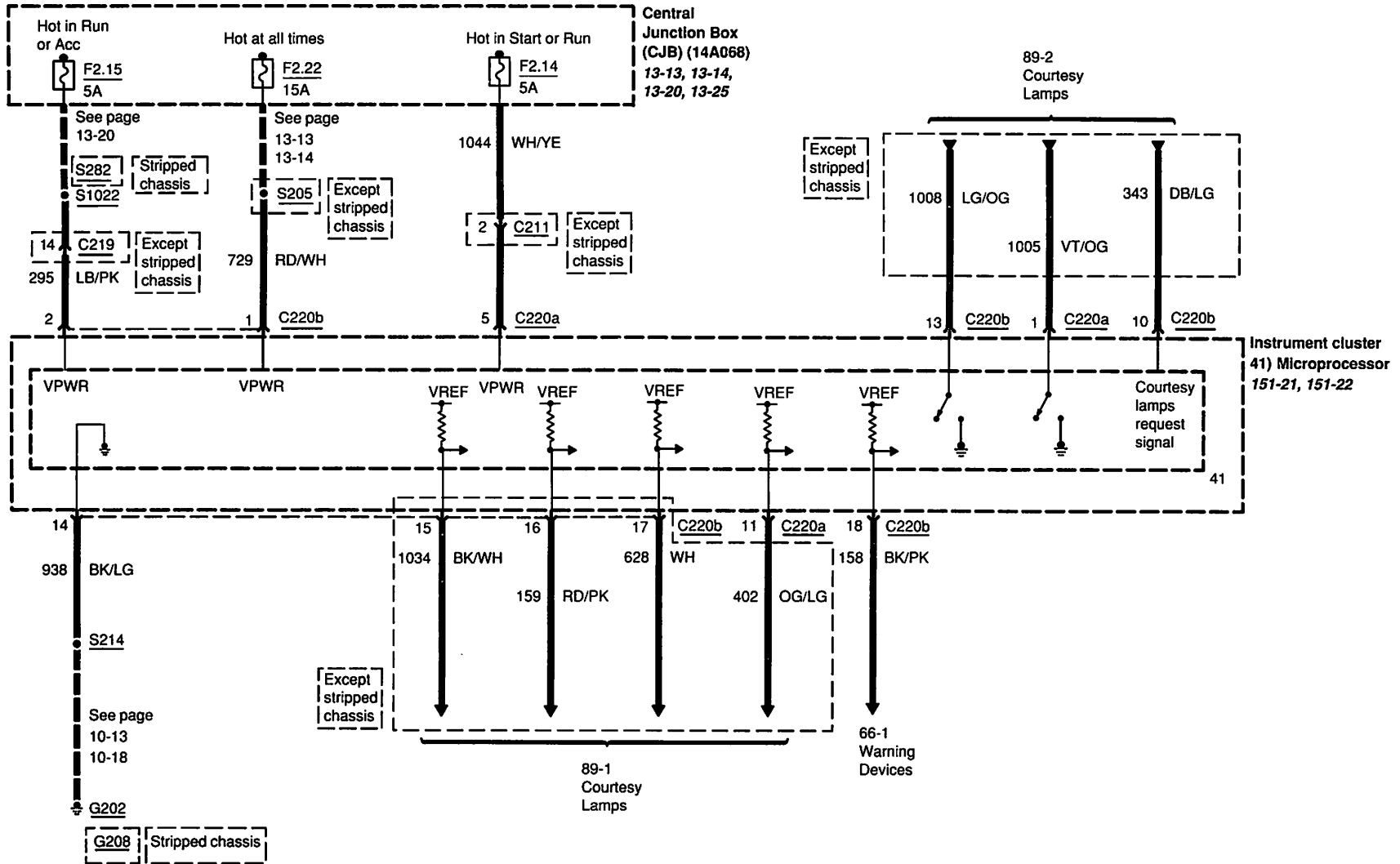
Diesel

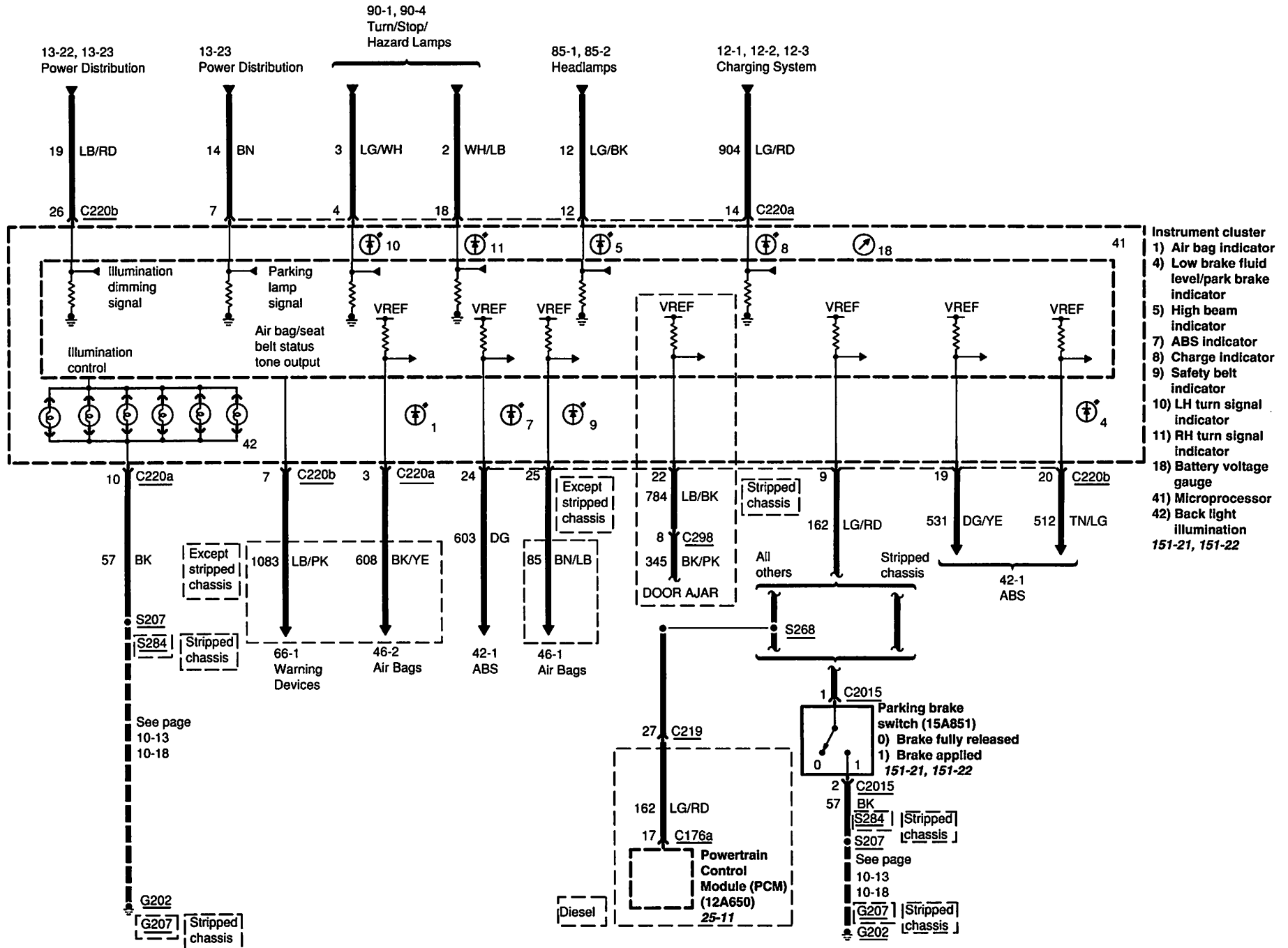


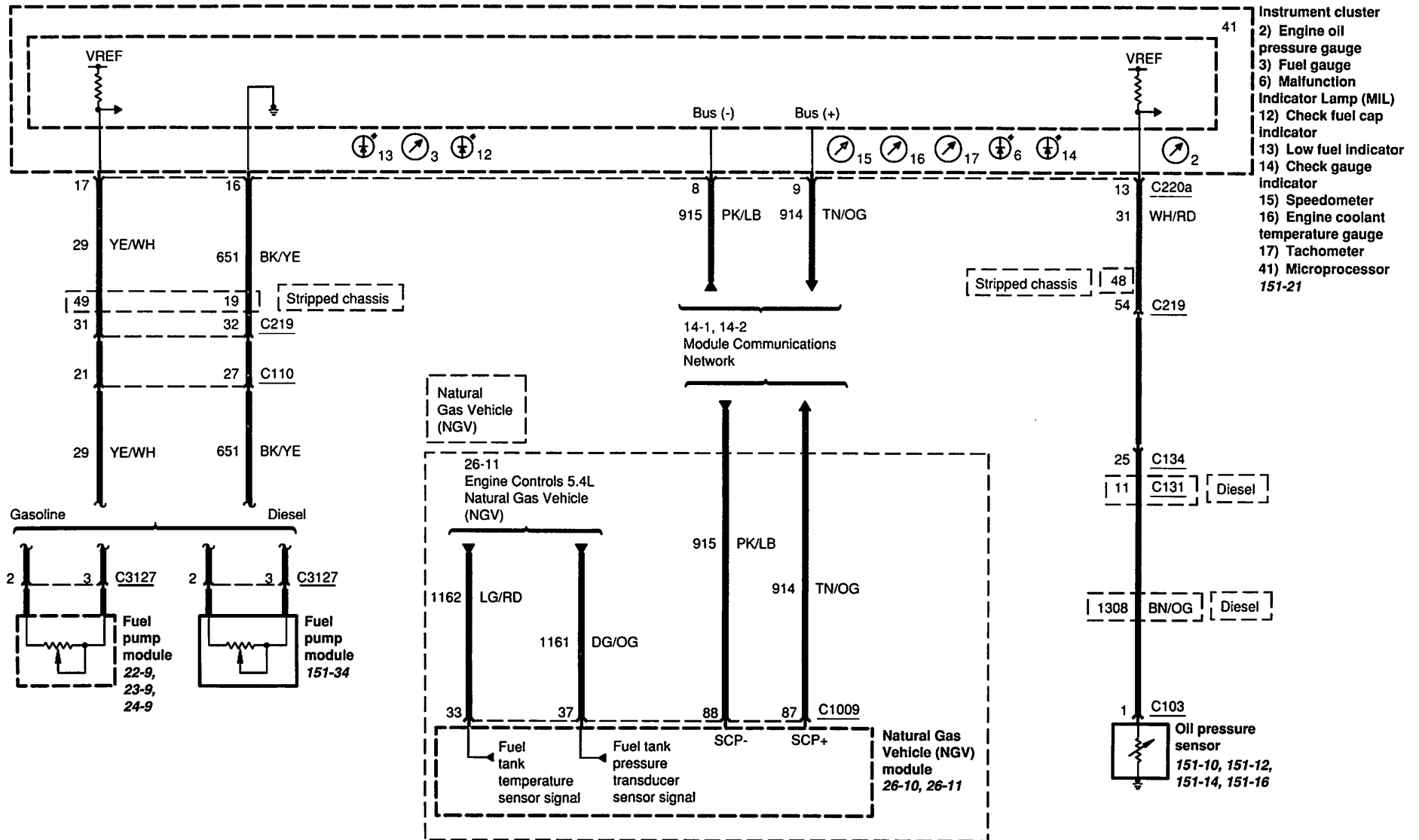
Stripped chassis



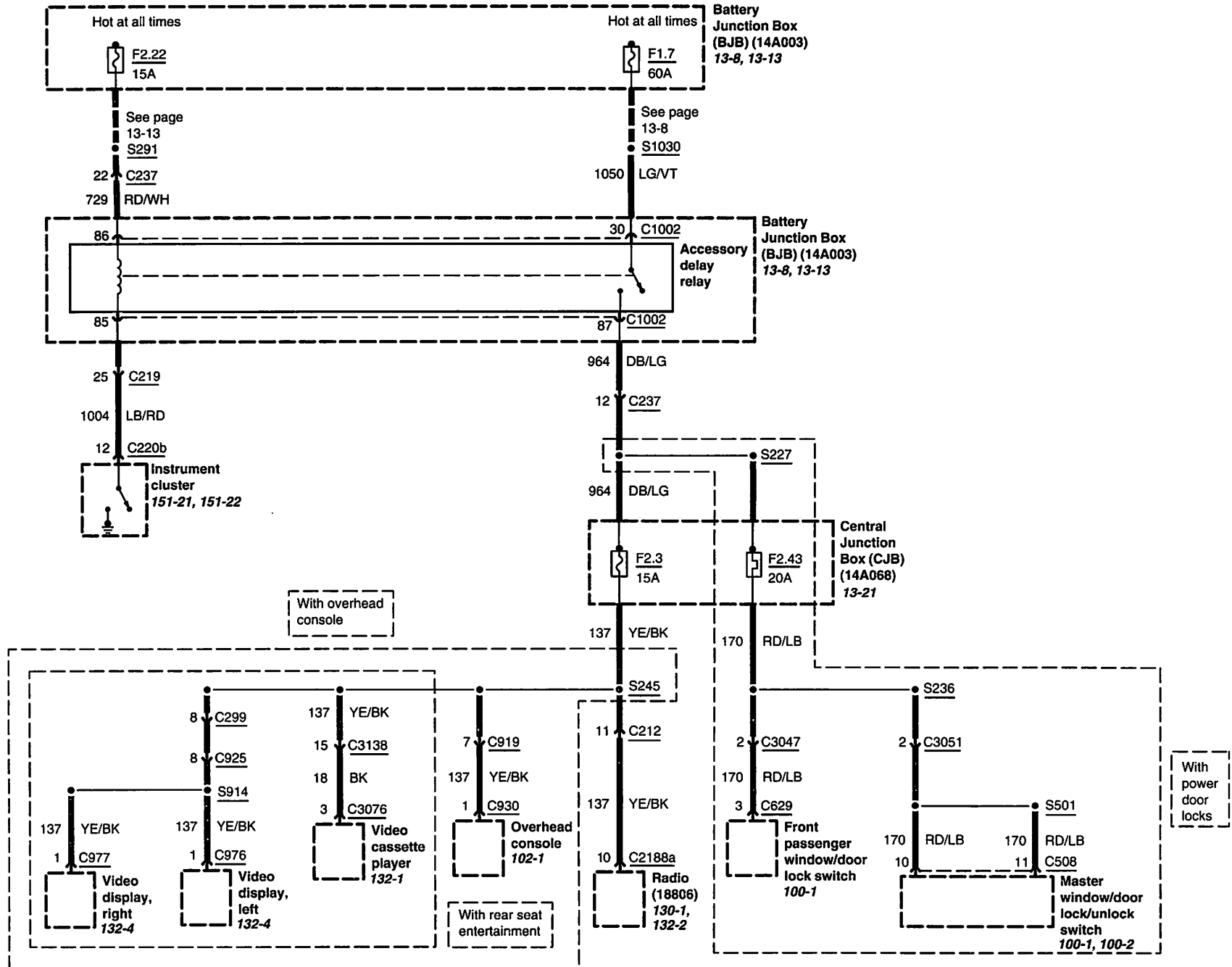
Notes

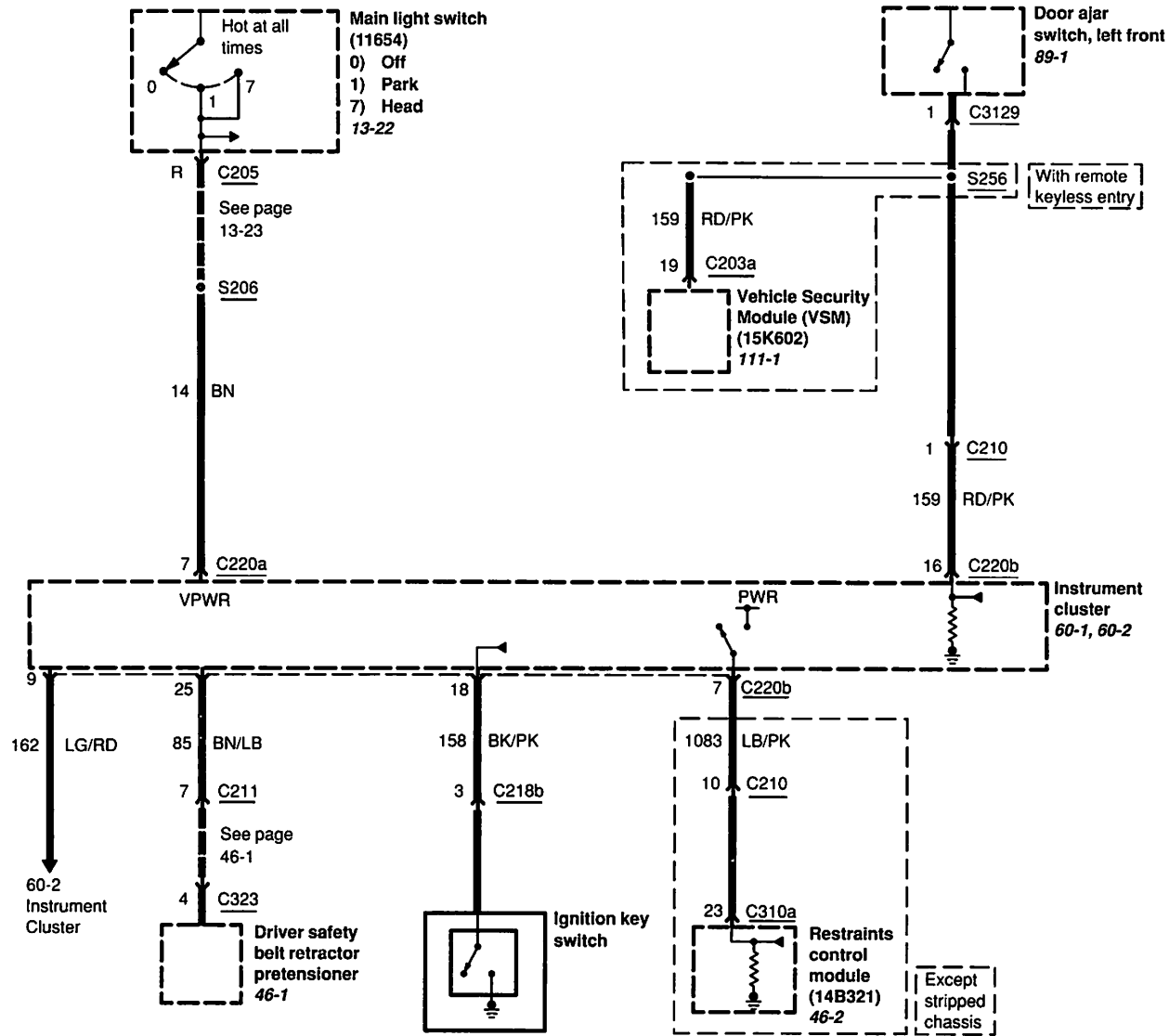






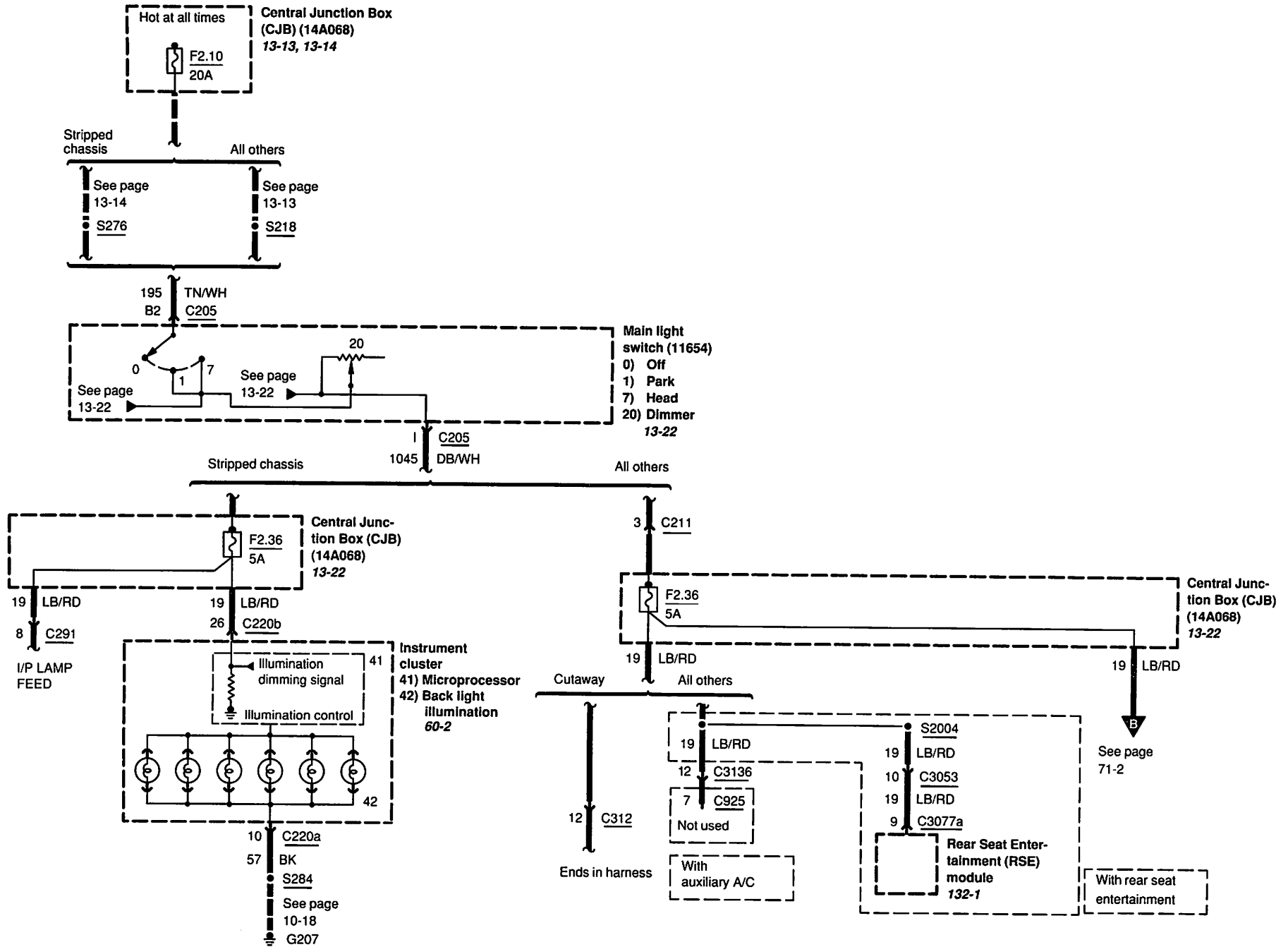
Except Stripped Chassis

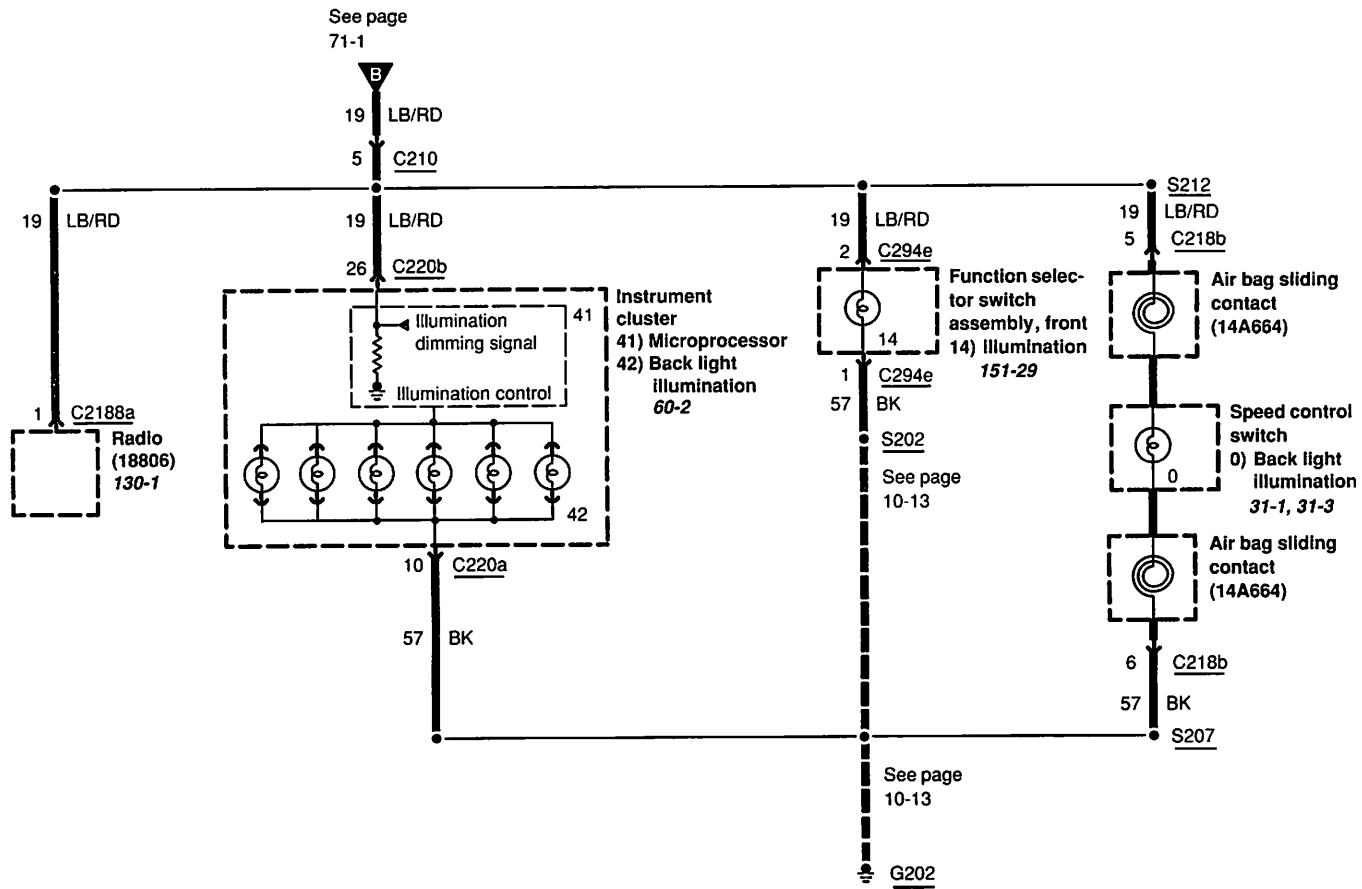




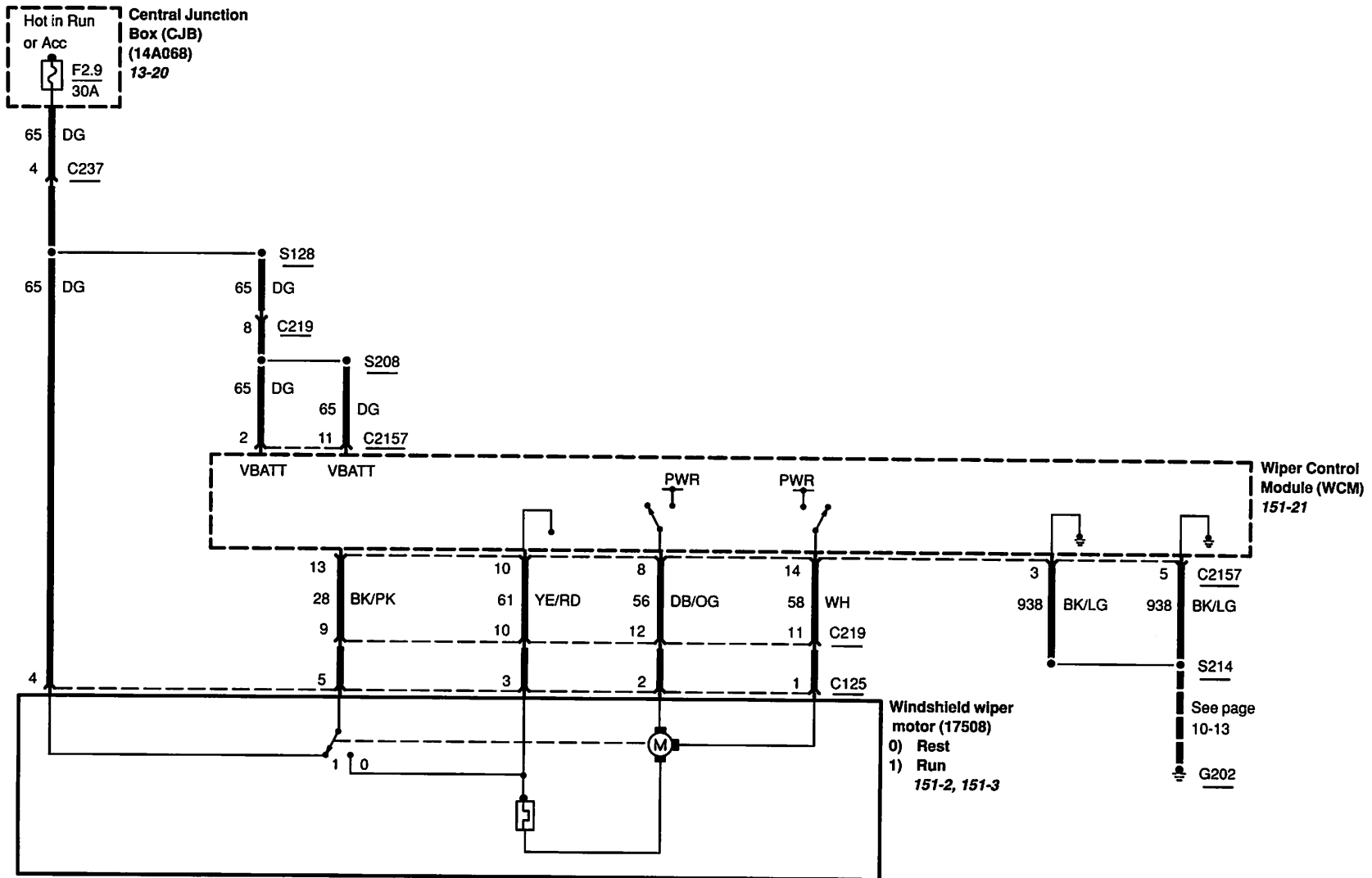
Notes

71-1 Illumination

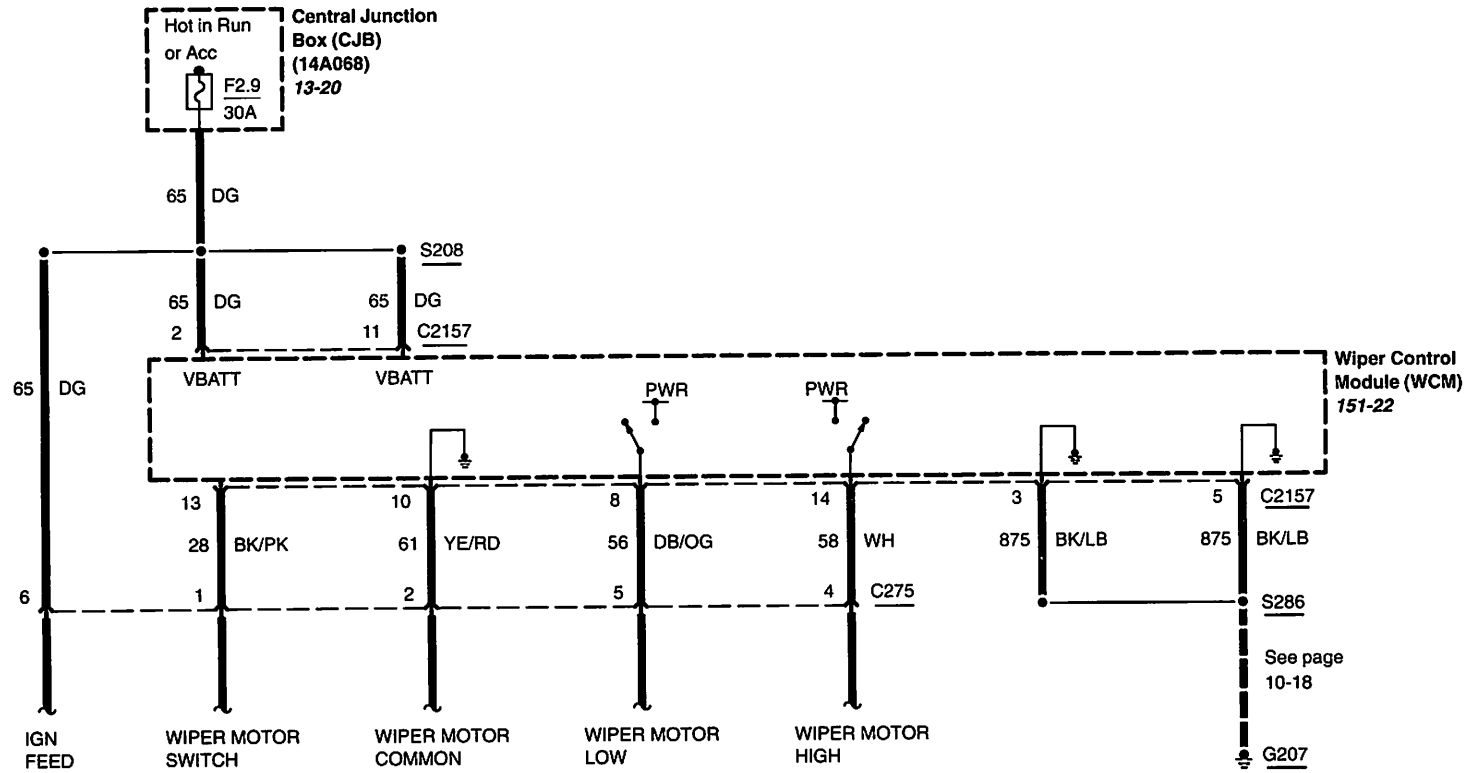


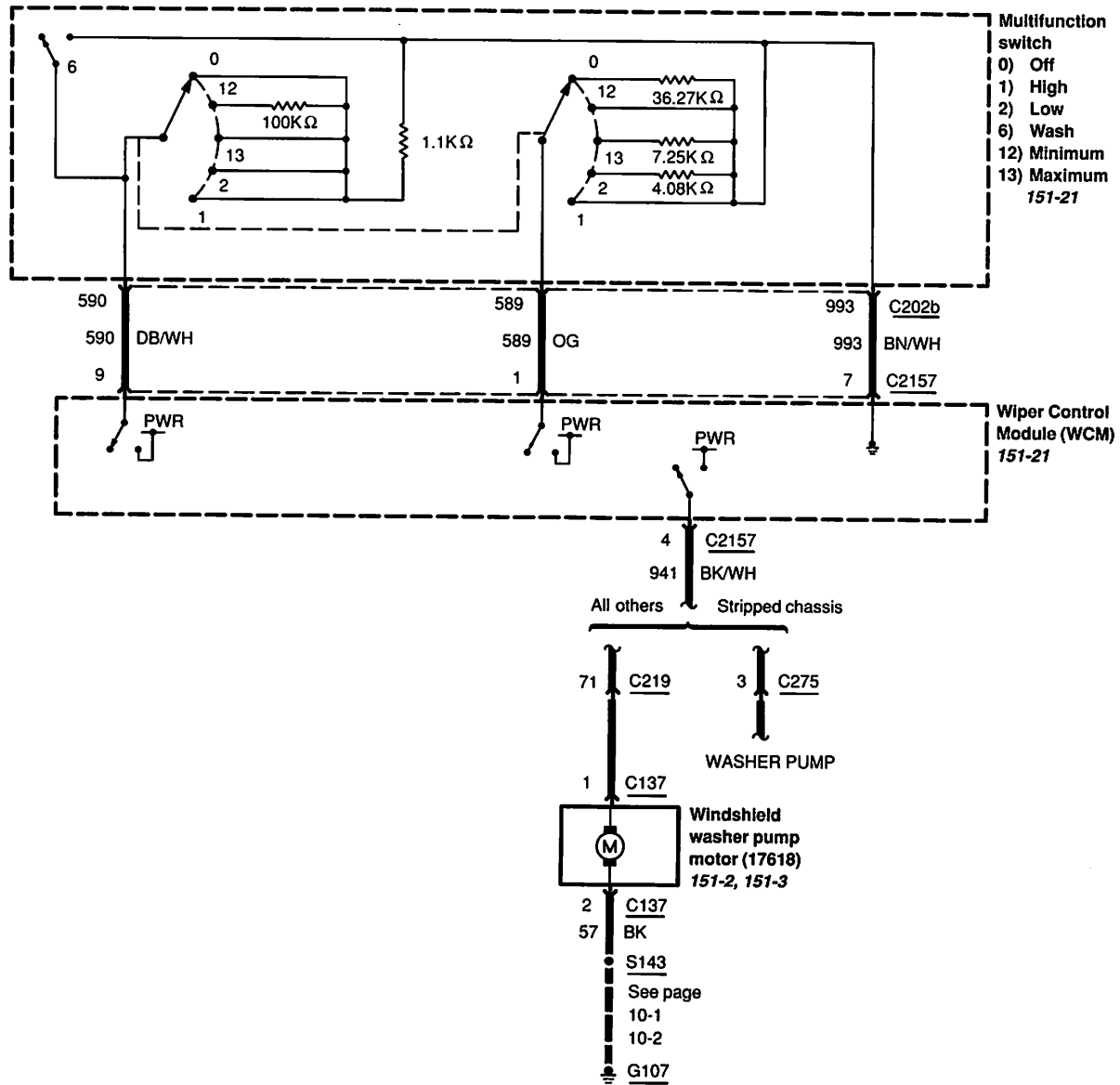


Except stripped chassis

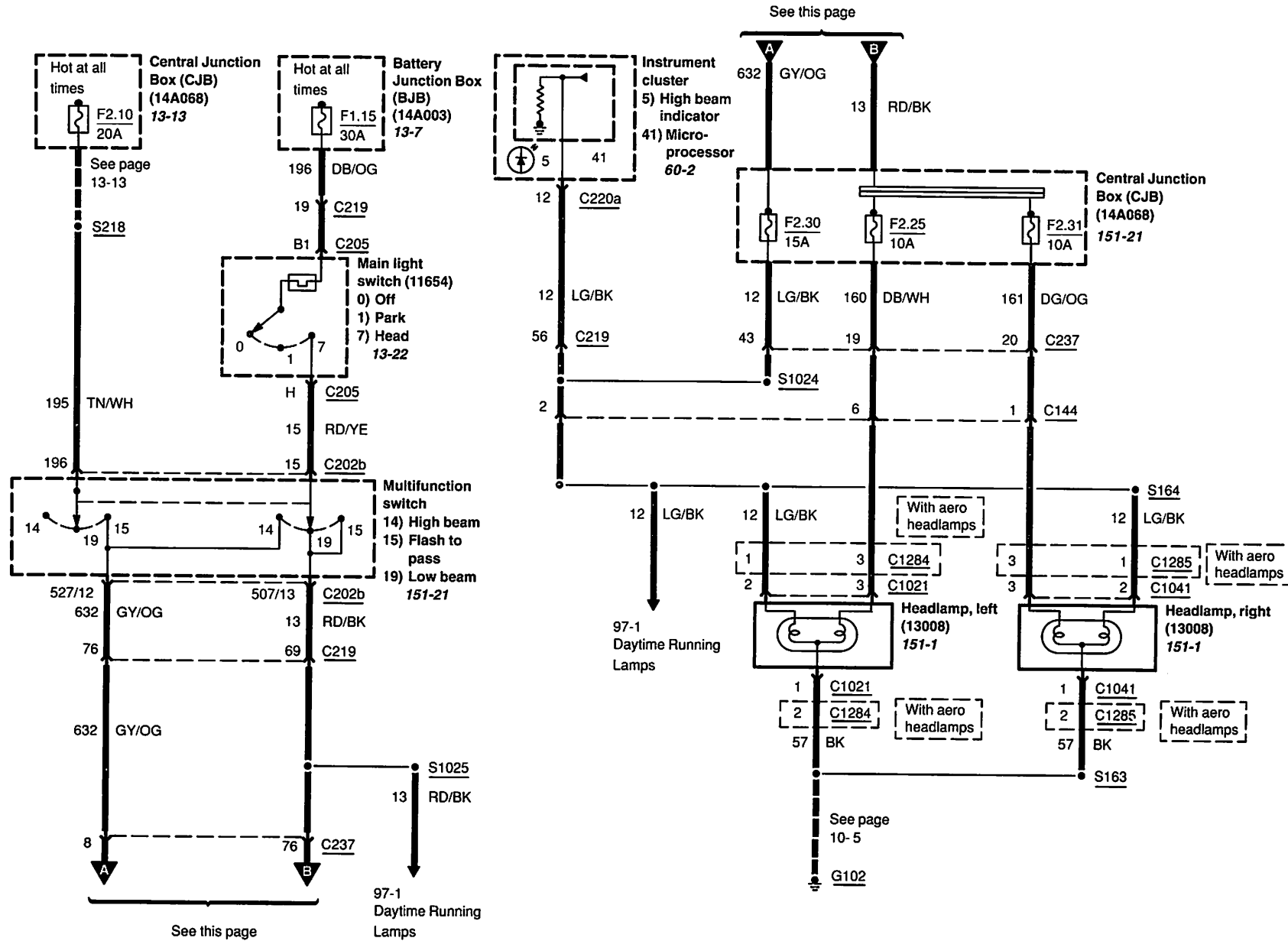


Stripped chassis

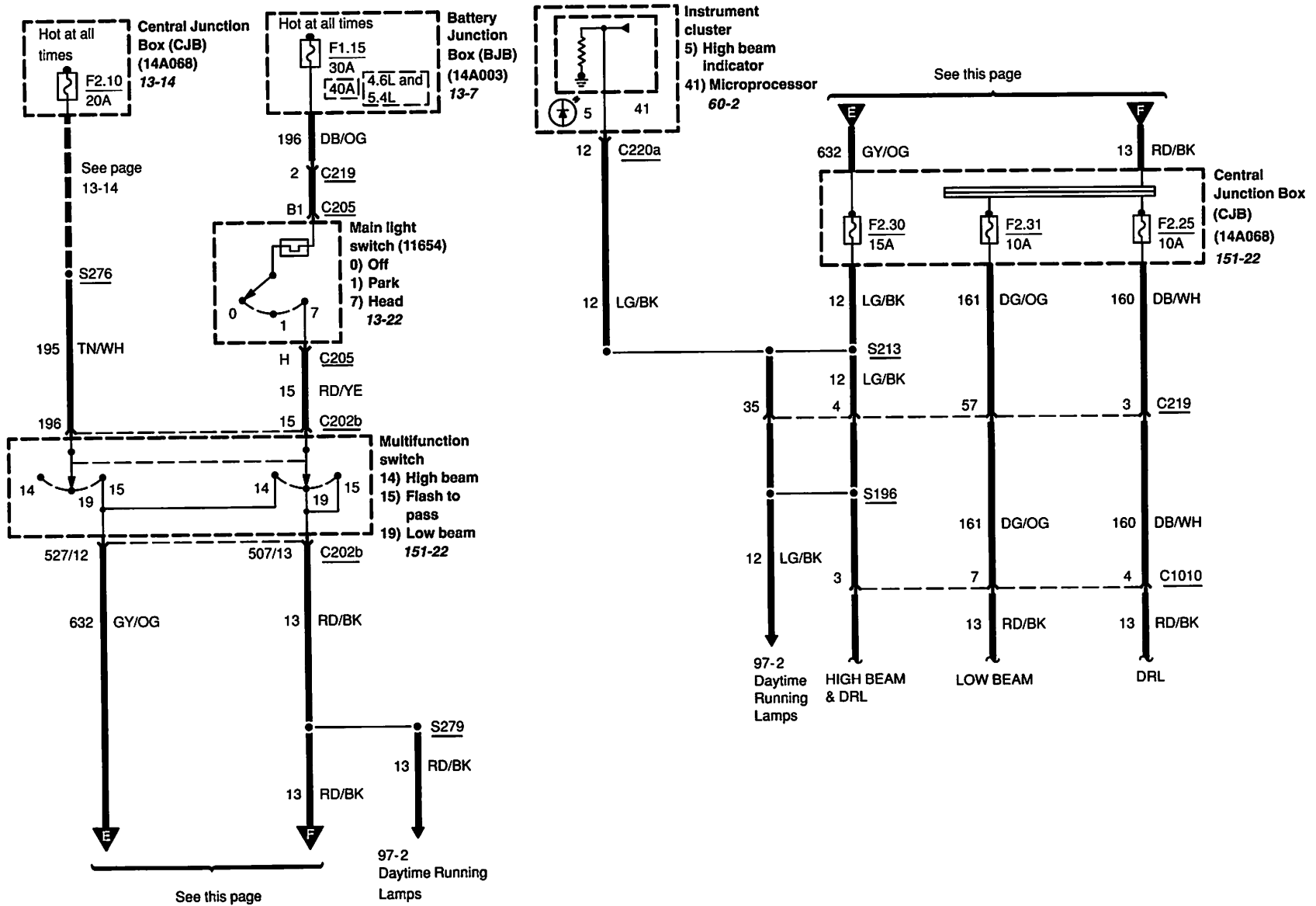




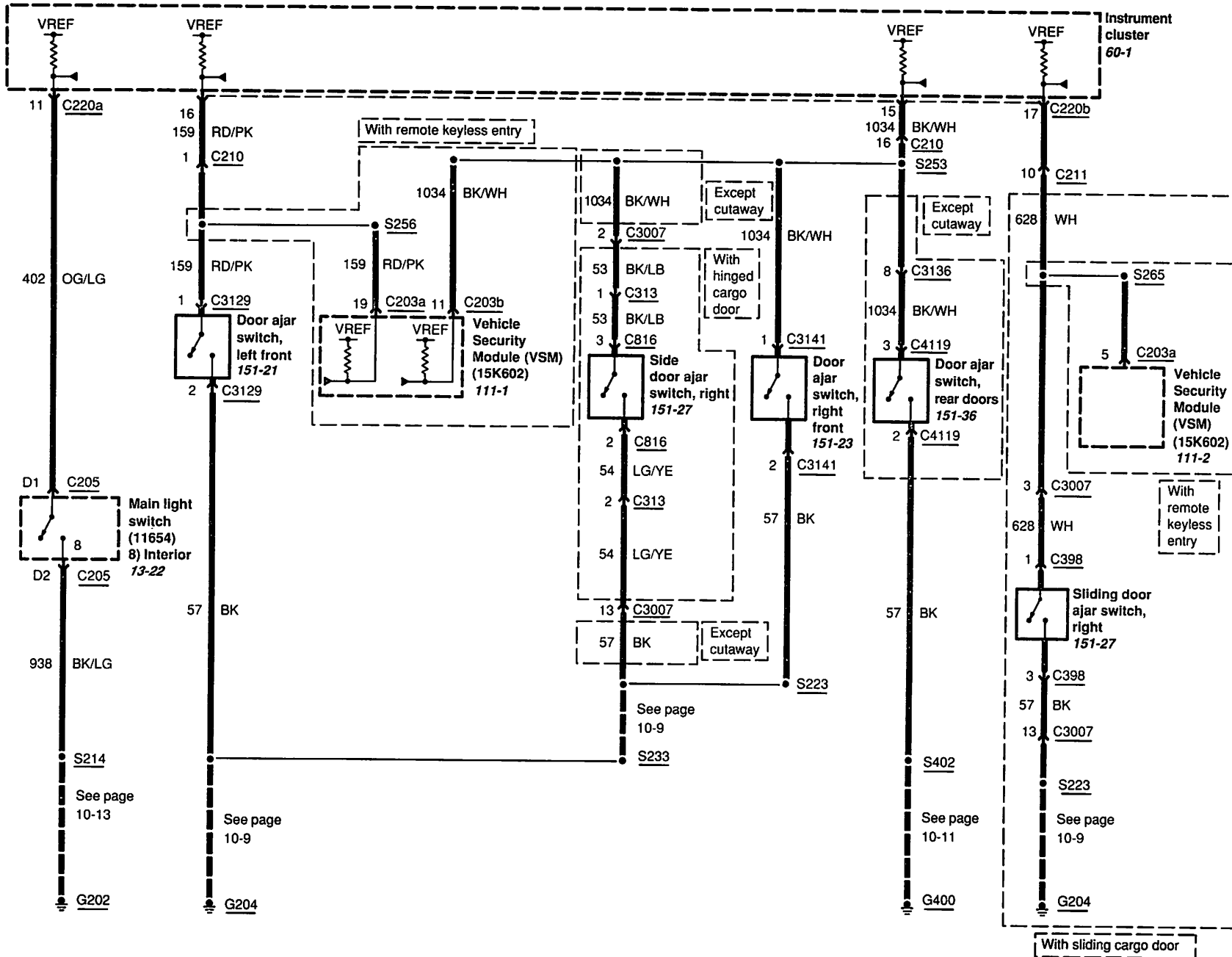
Except stripped chassis



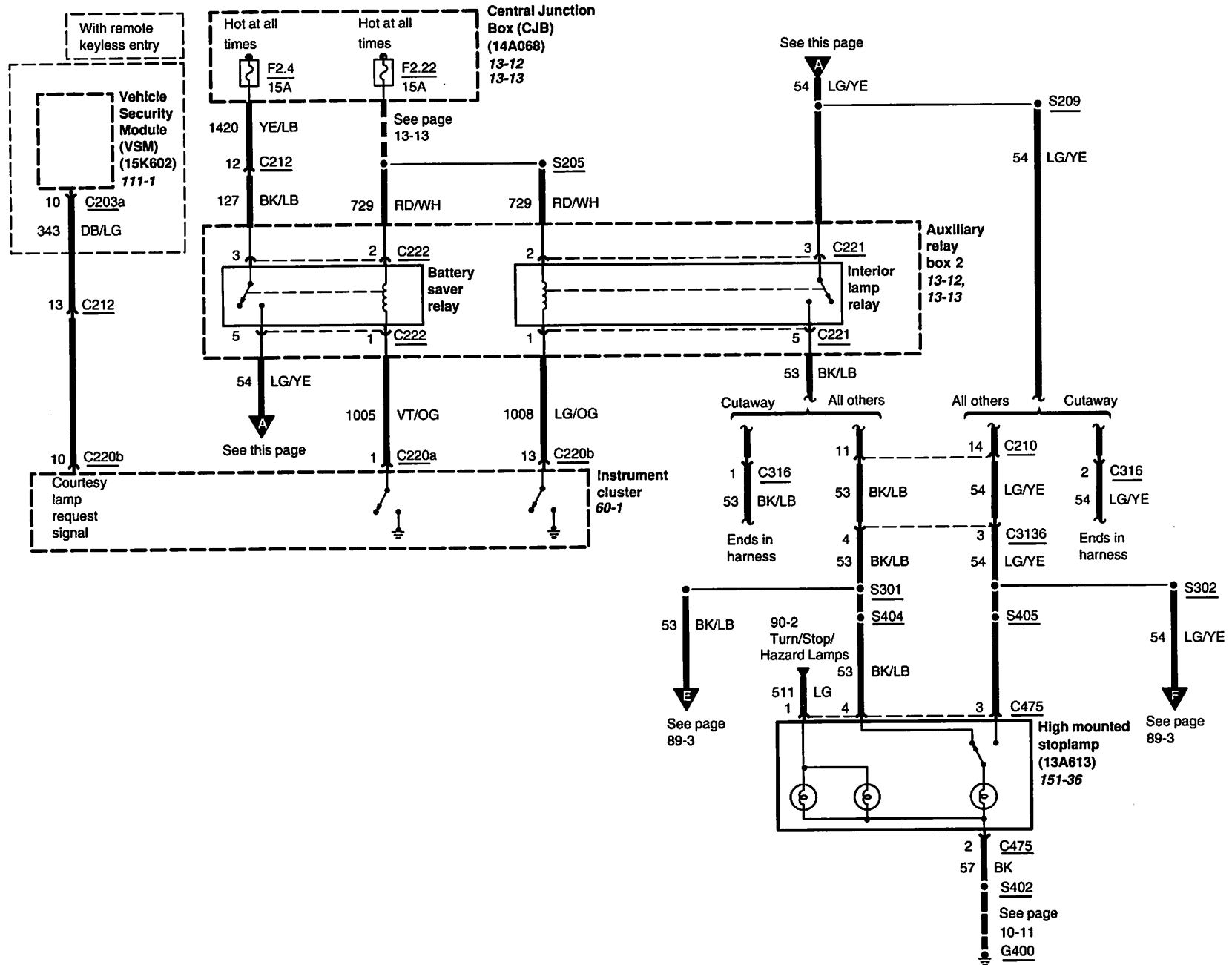
Stripped chassis



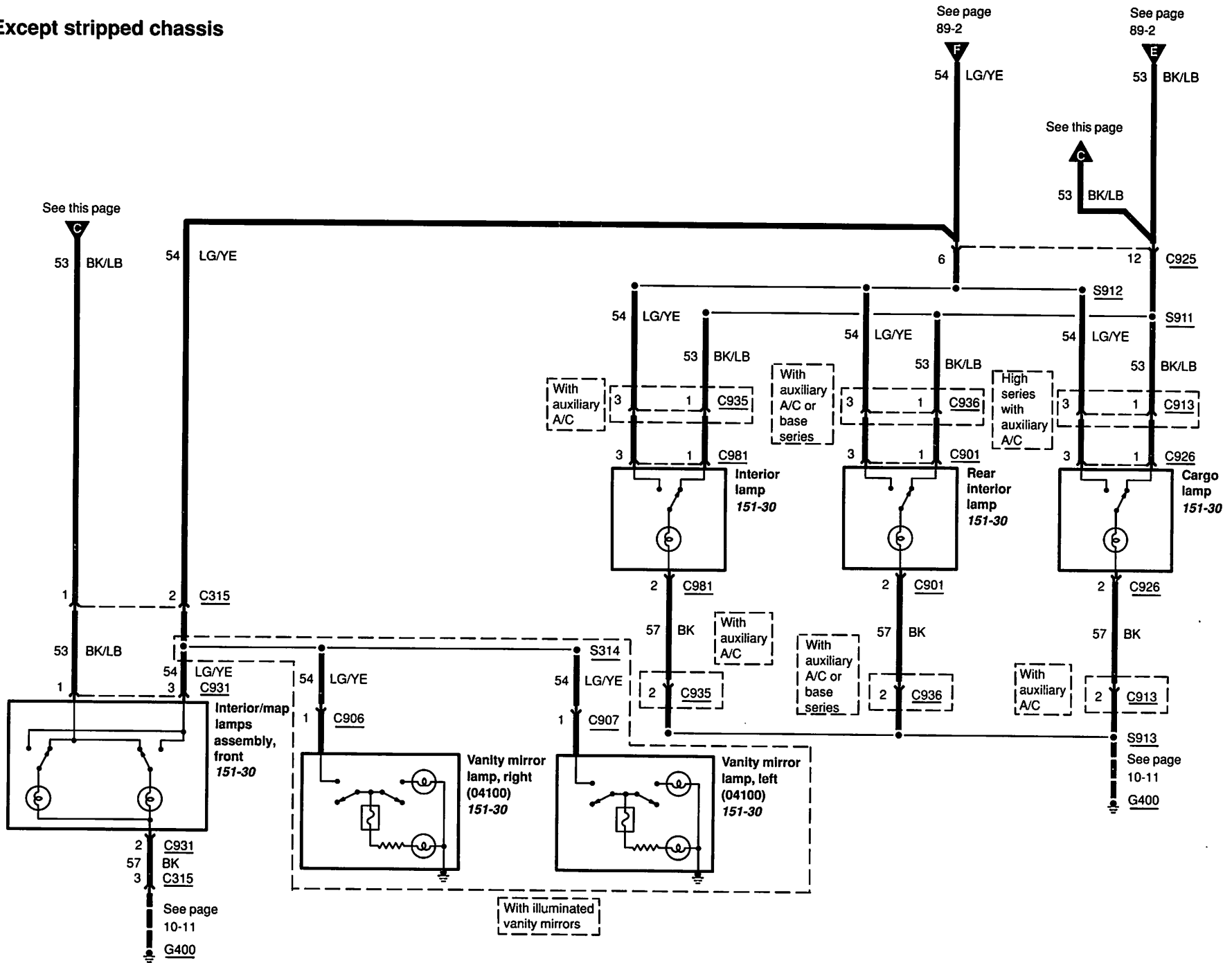
Except stripped chassis



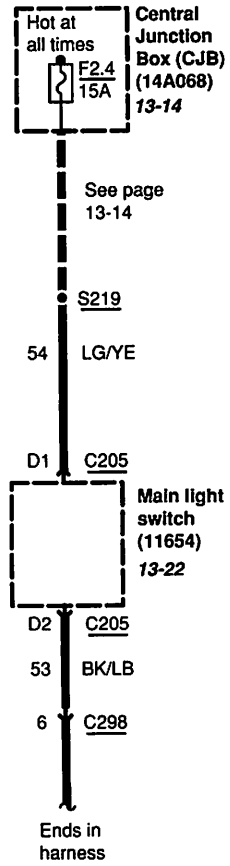
Except stripped chassis



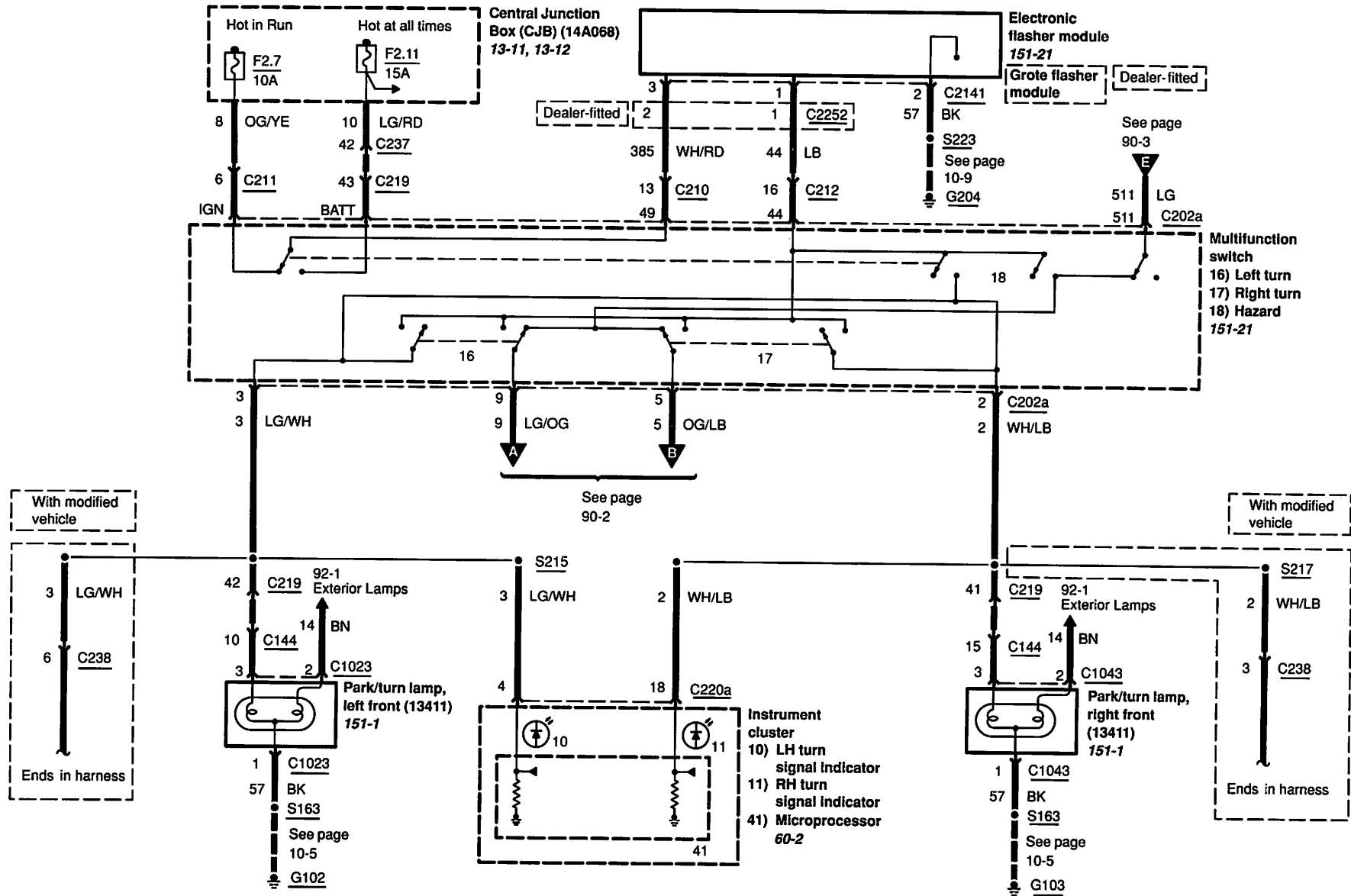
Except stripped chassis



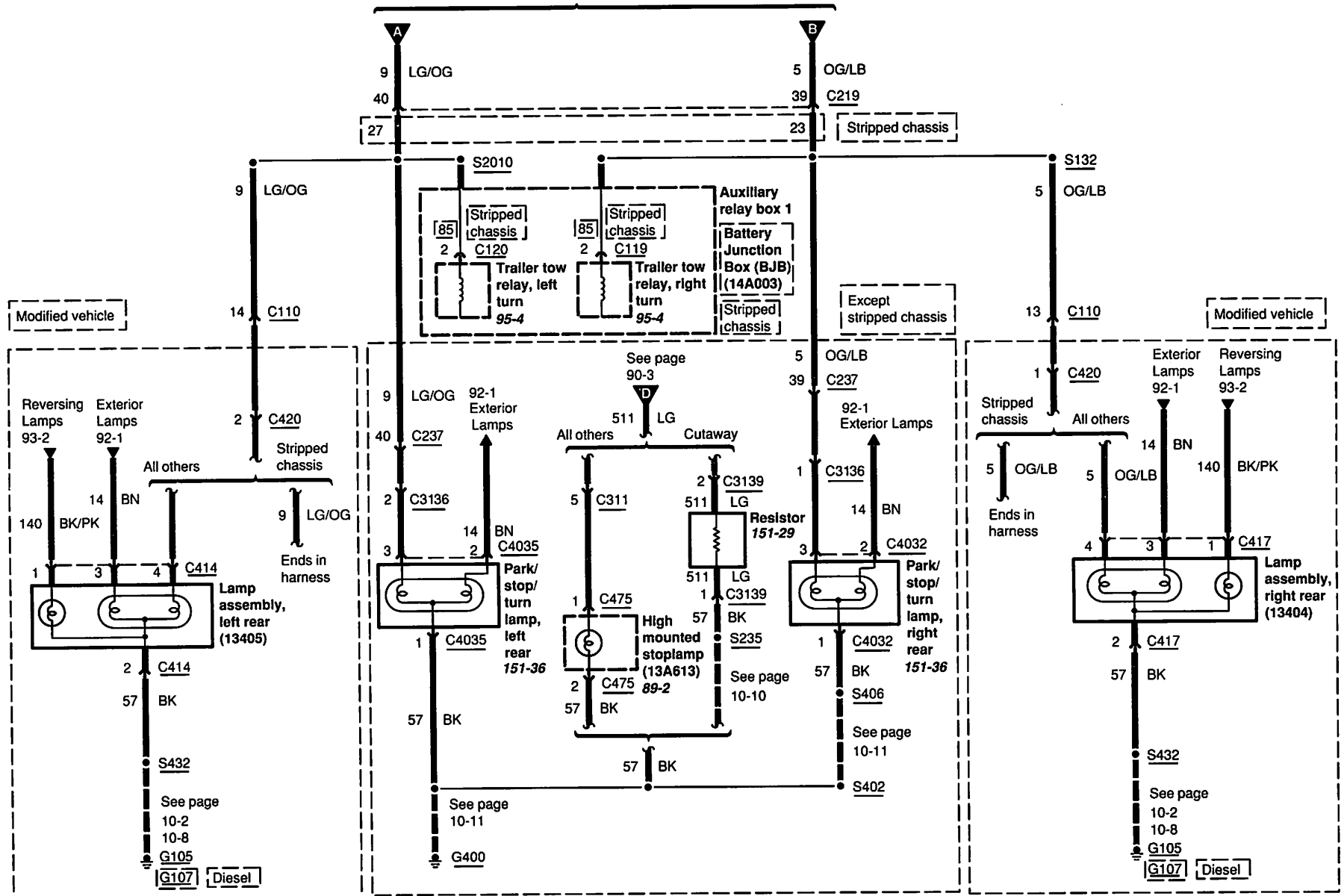
Stripped chassis



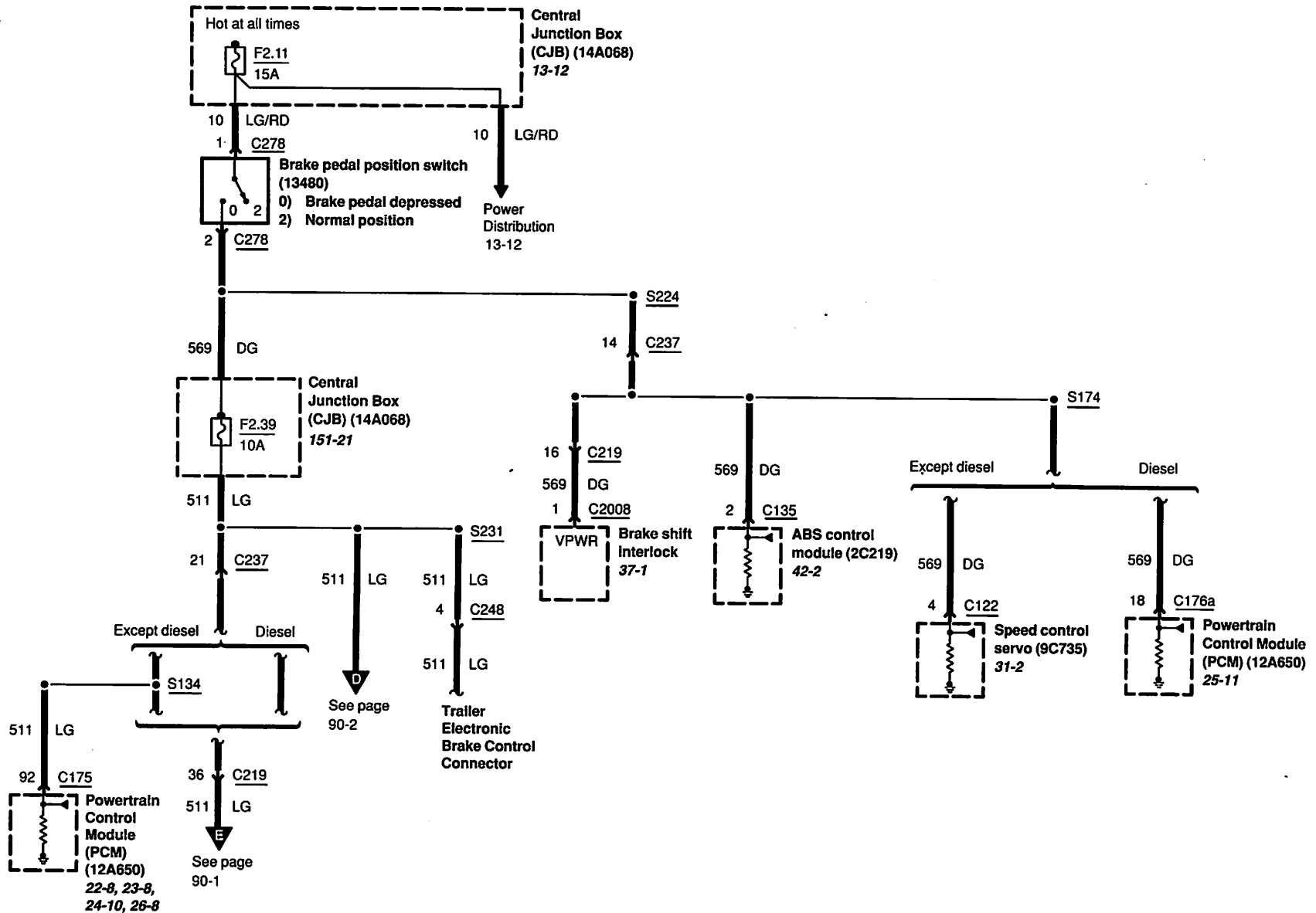
Except stripped chassis



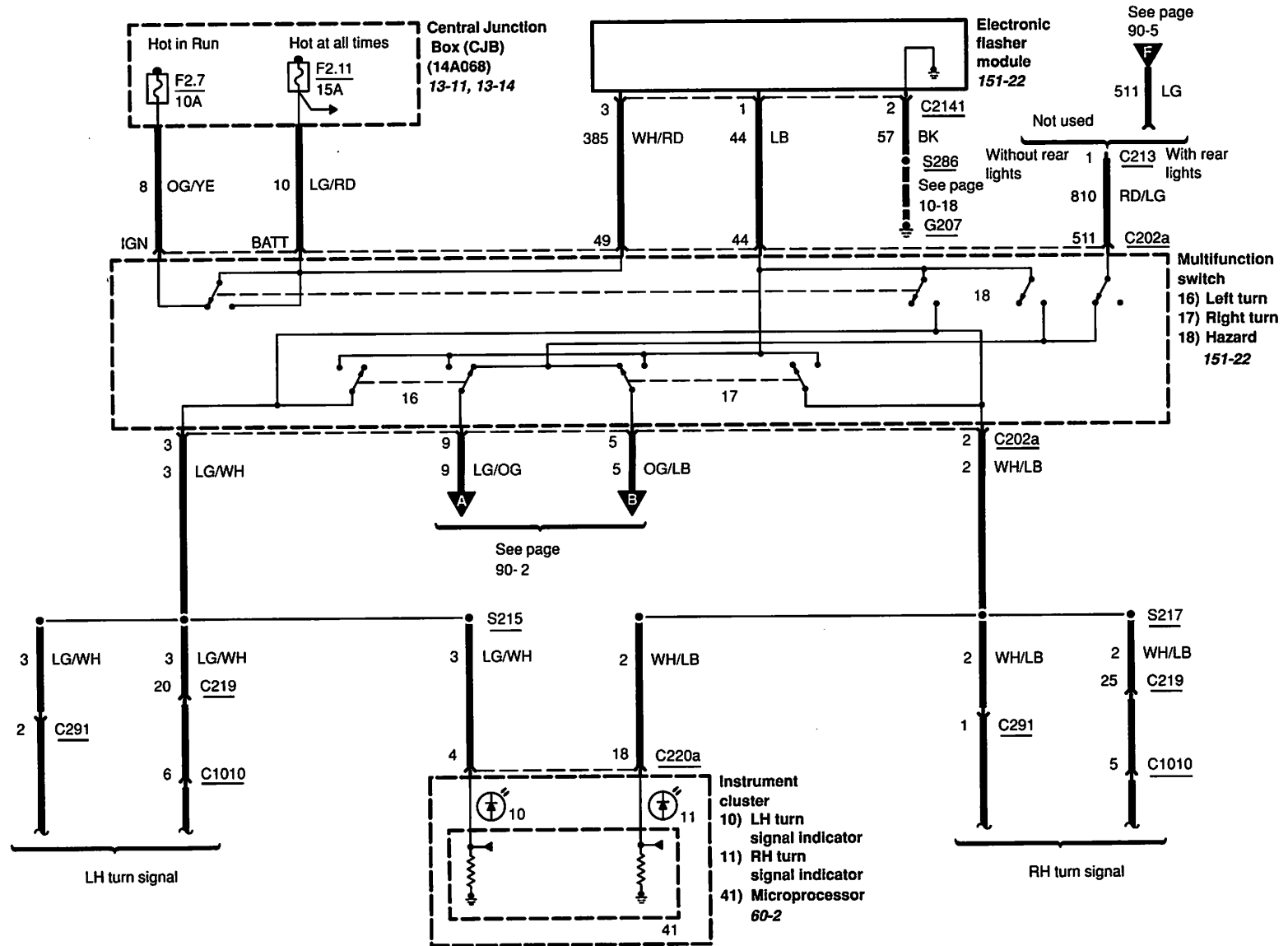
See page
90-1
90-4



Except stripped chassis

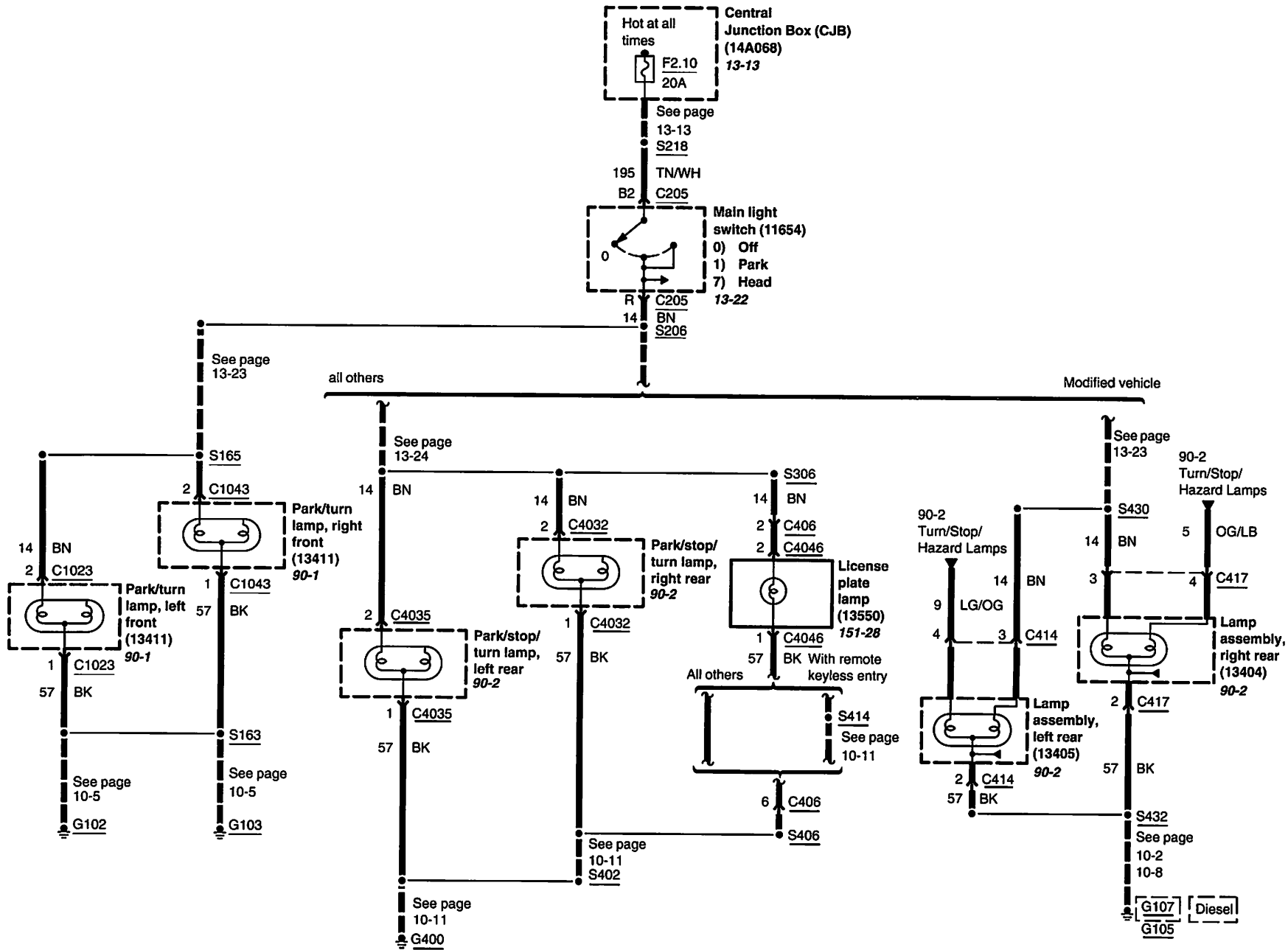


Stripped chassis

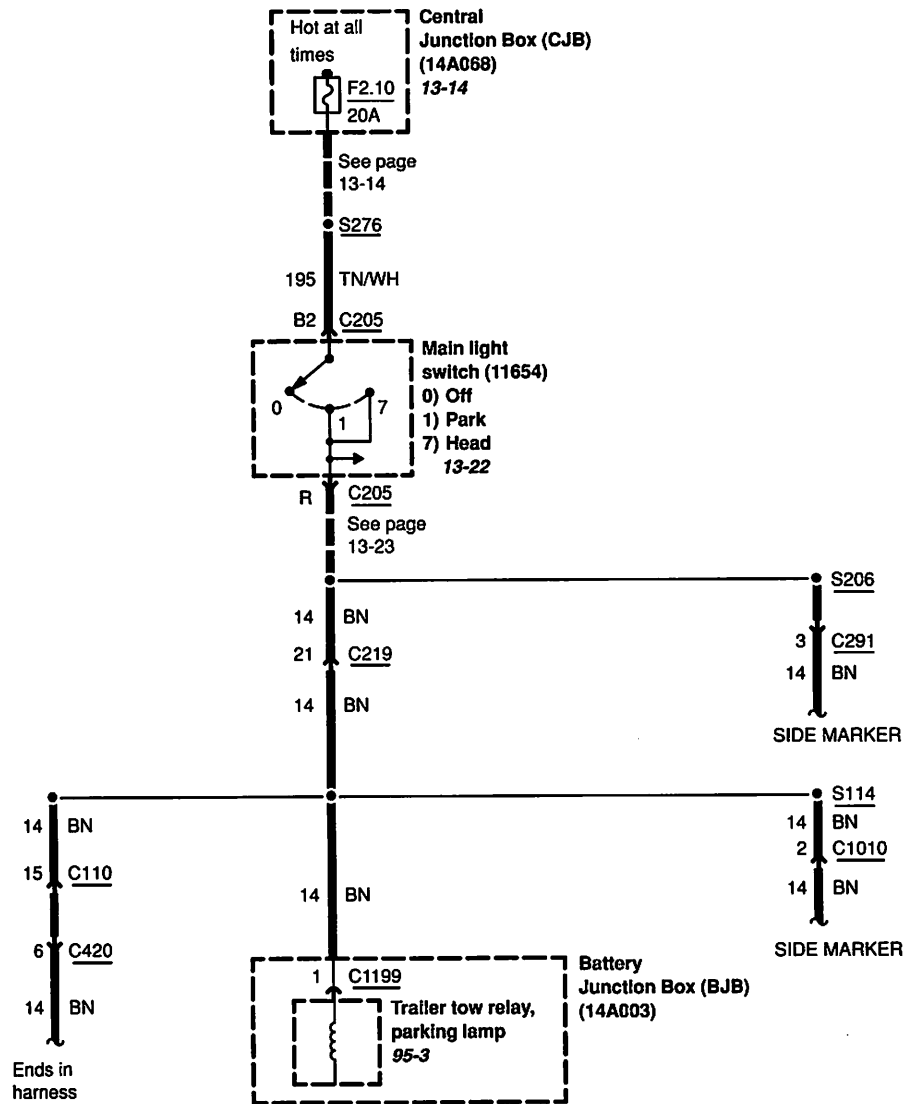


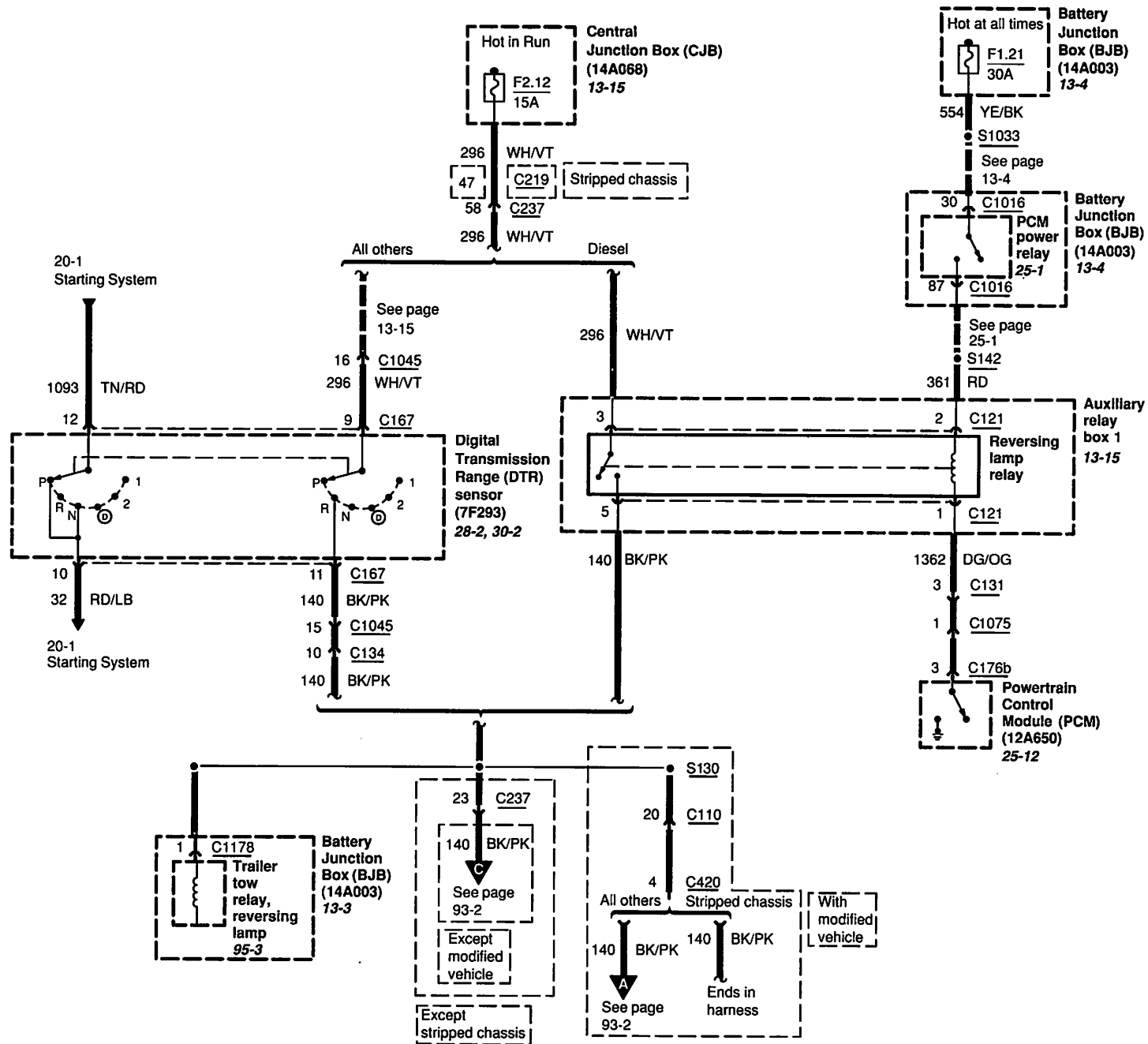
Notes

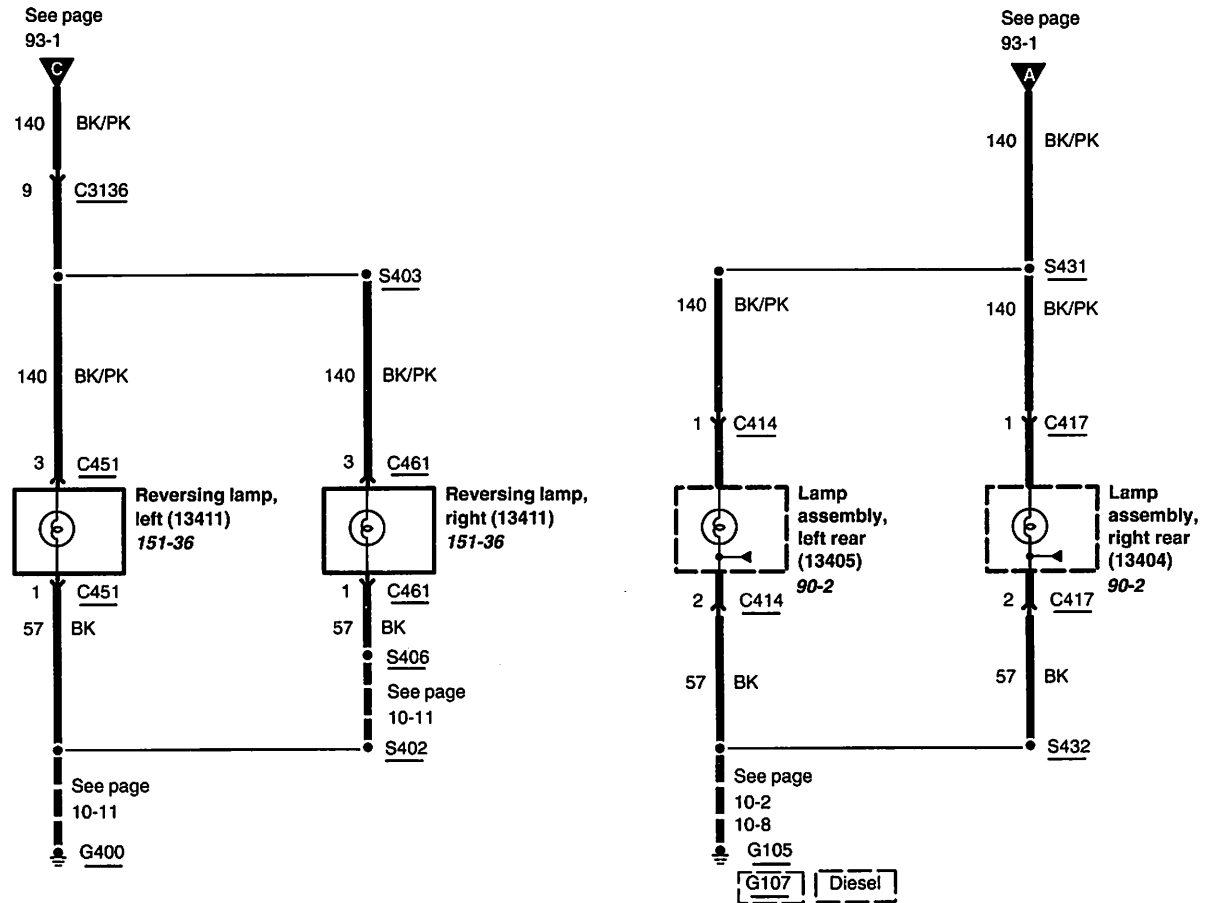
Except stripped chassis



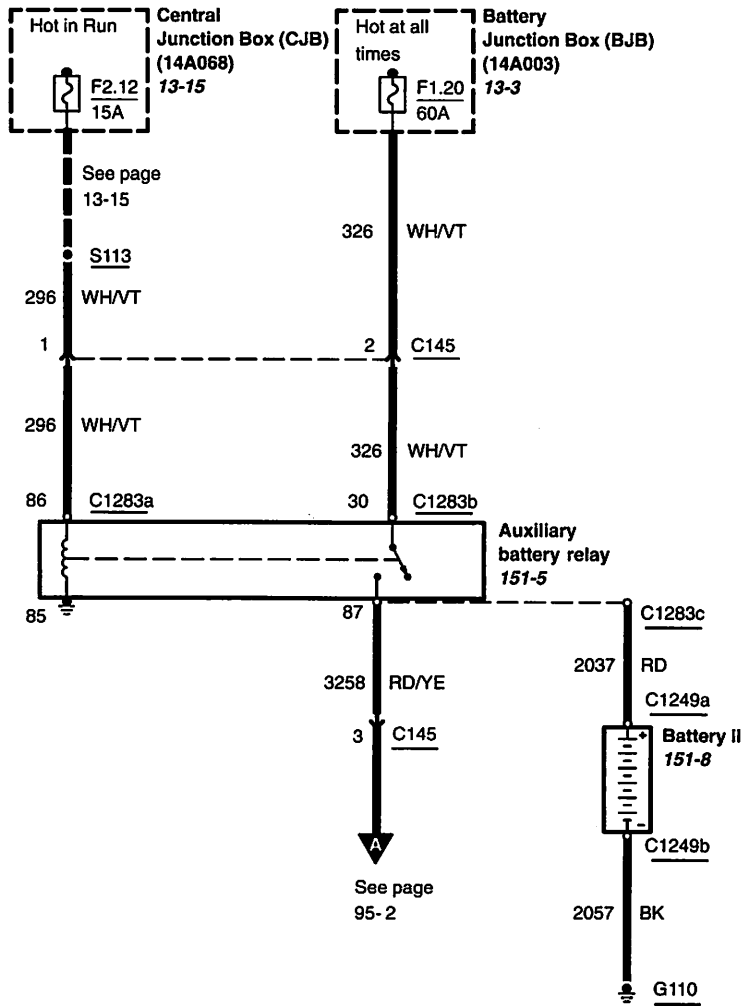
Stripped chassis



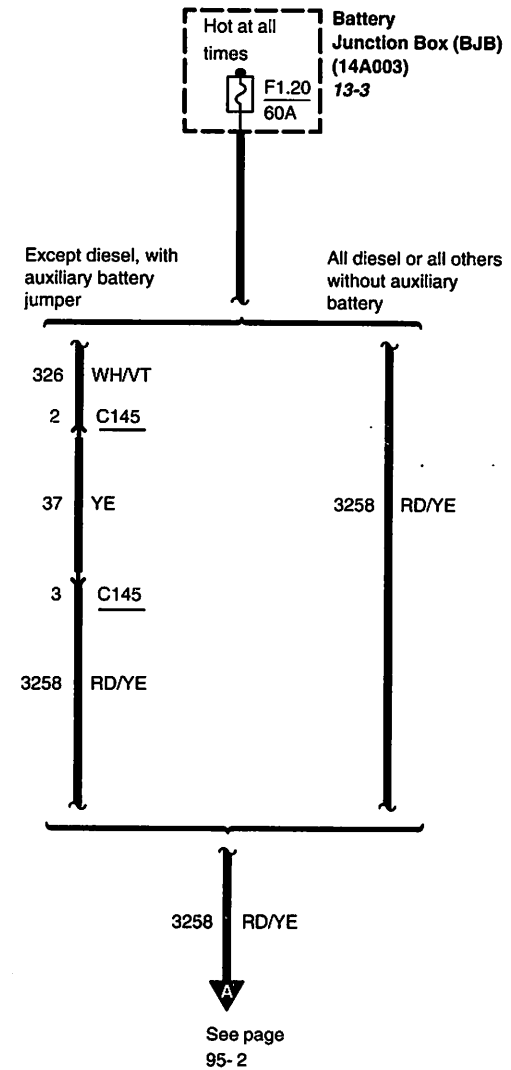


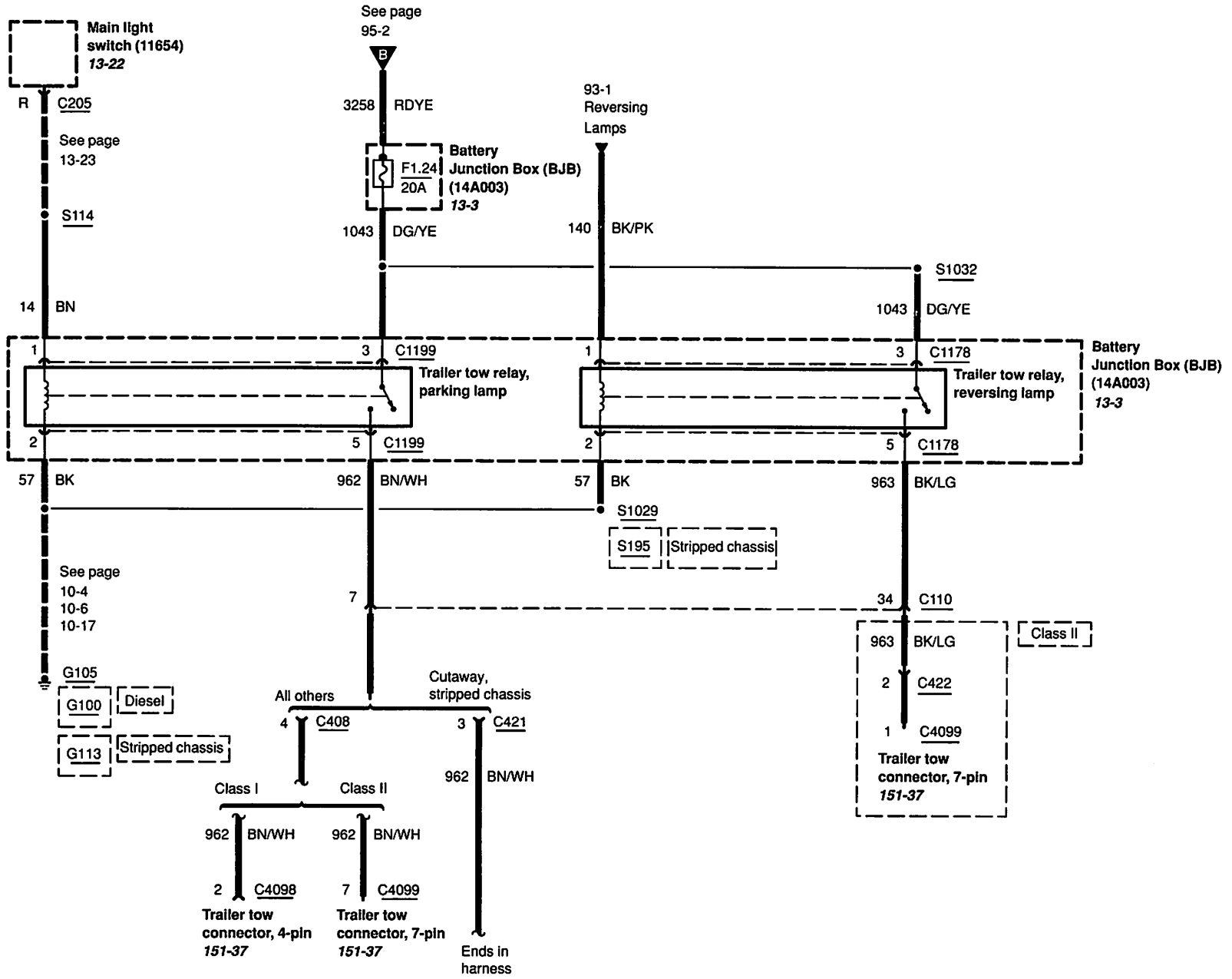


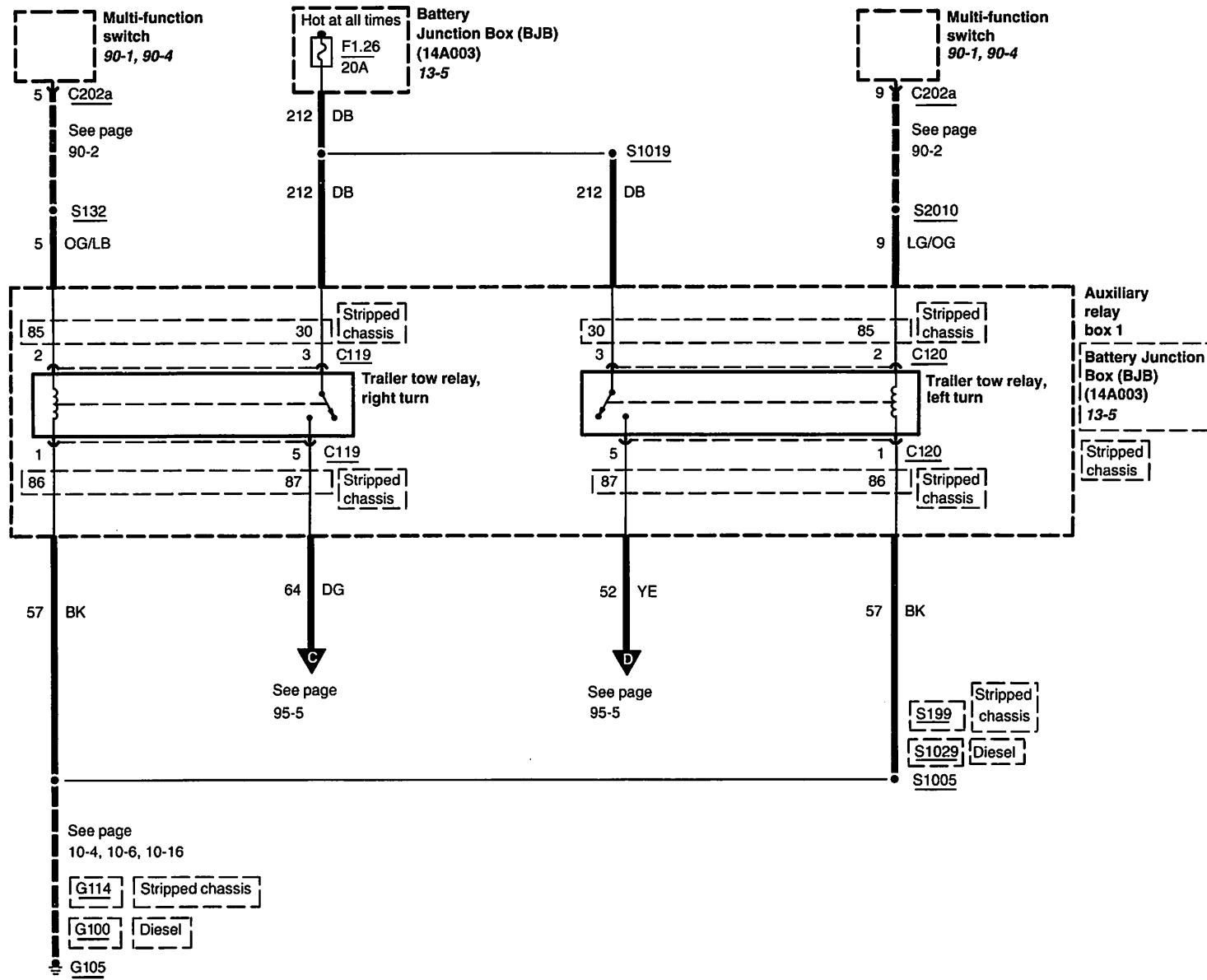
Except diesel,
with auxiliary battery

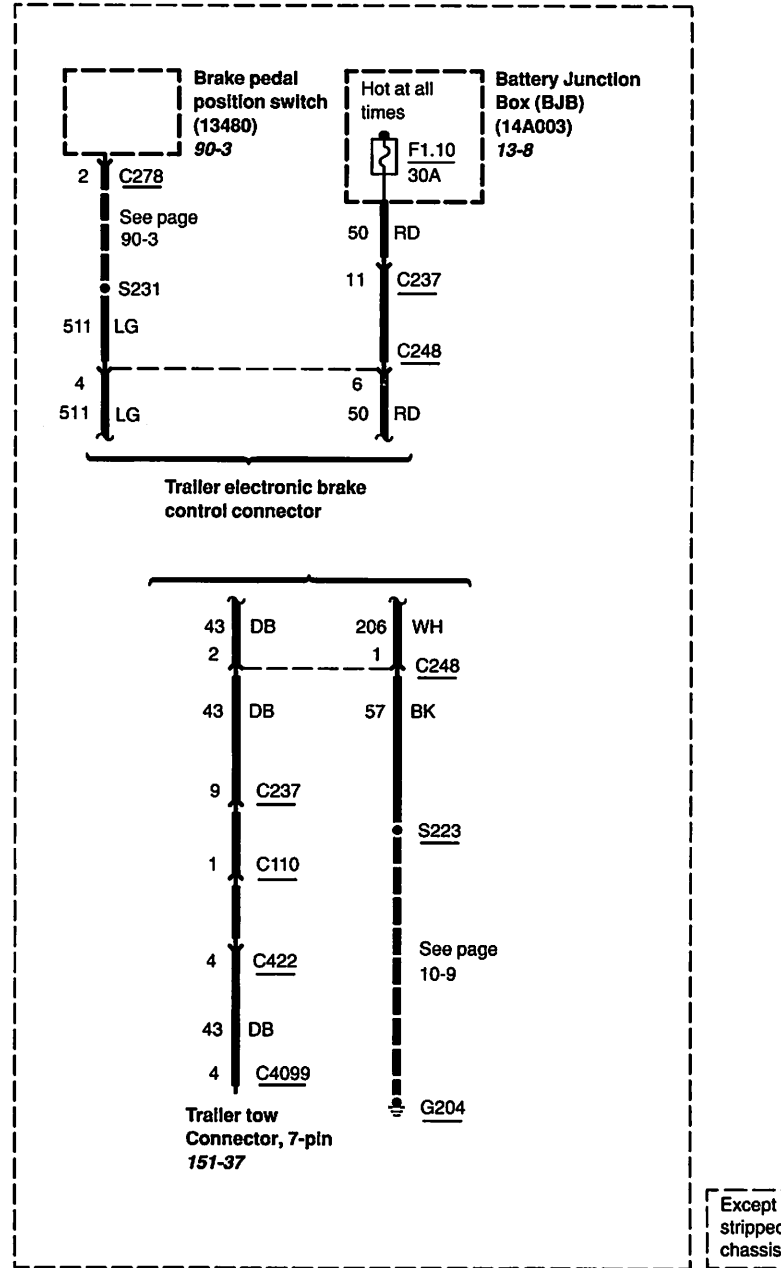
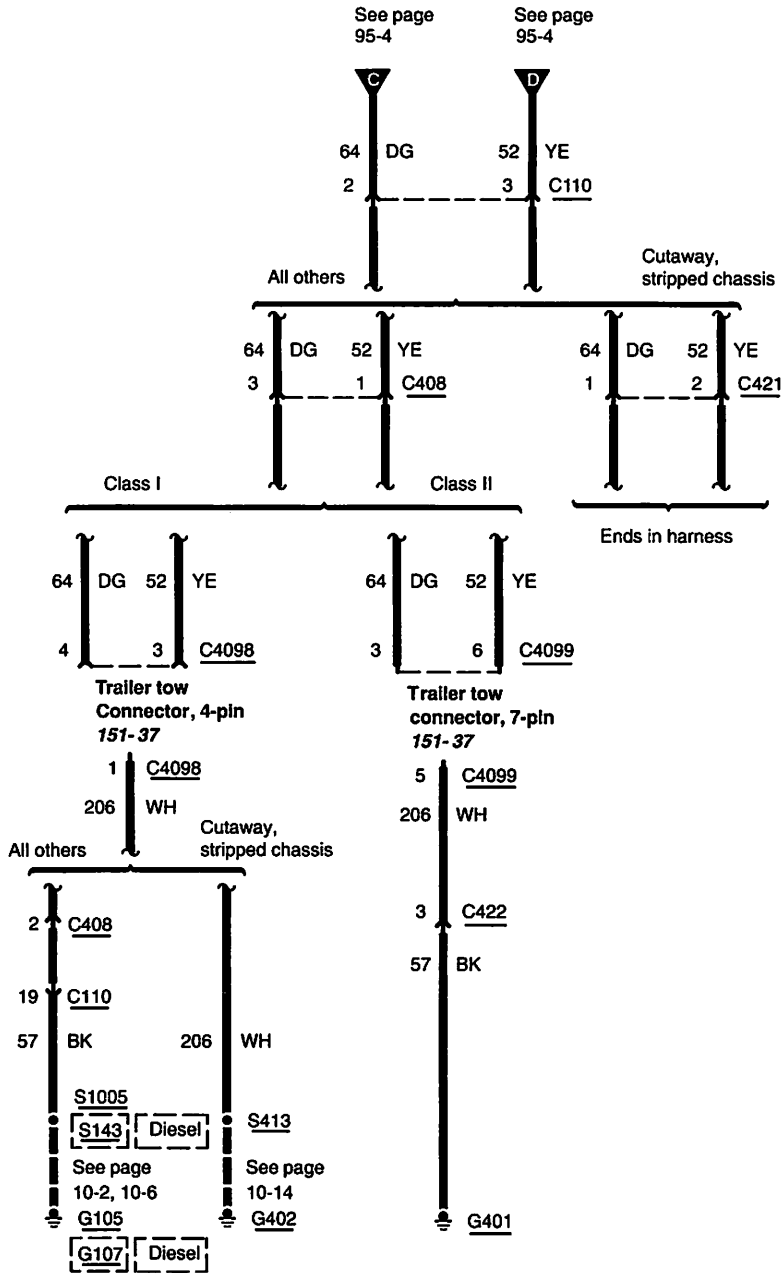


Without auxiliary battery

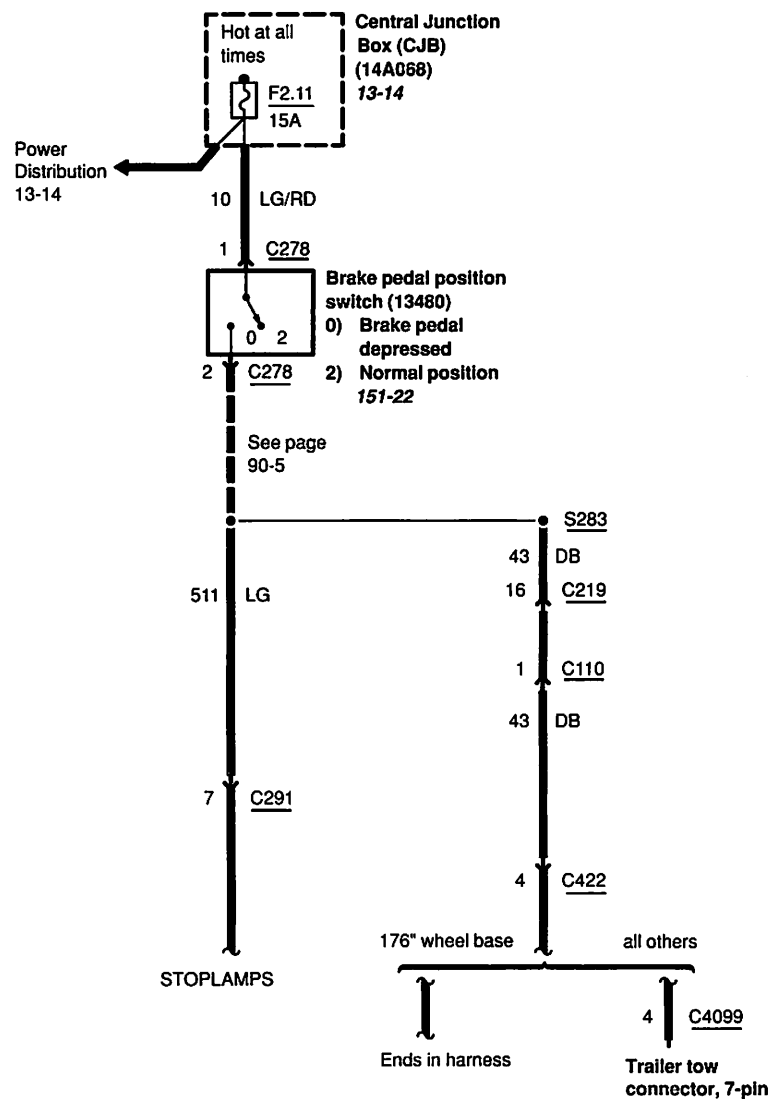




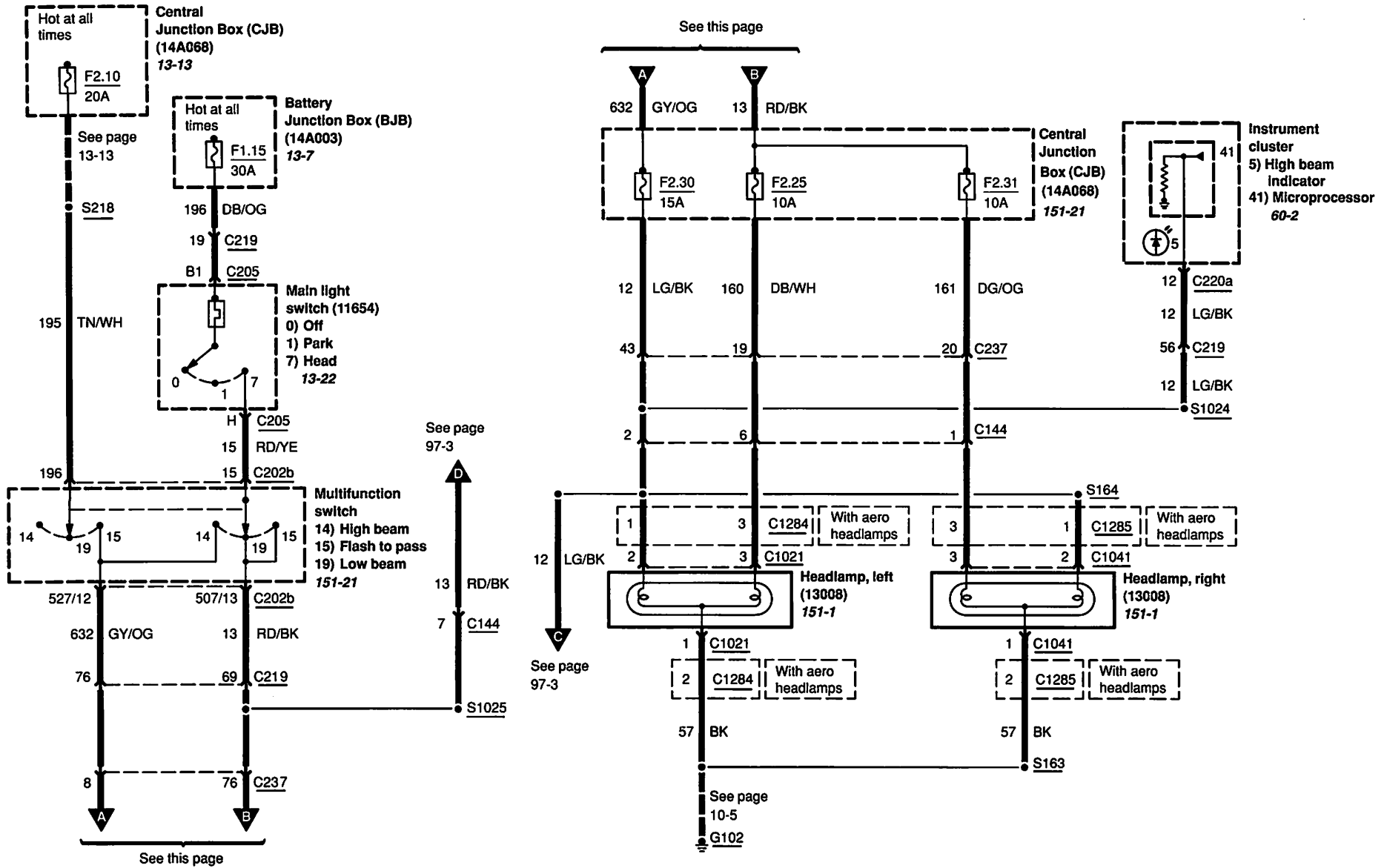




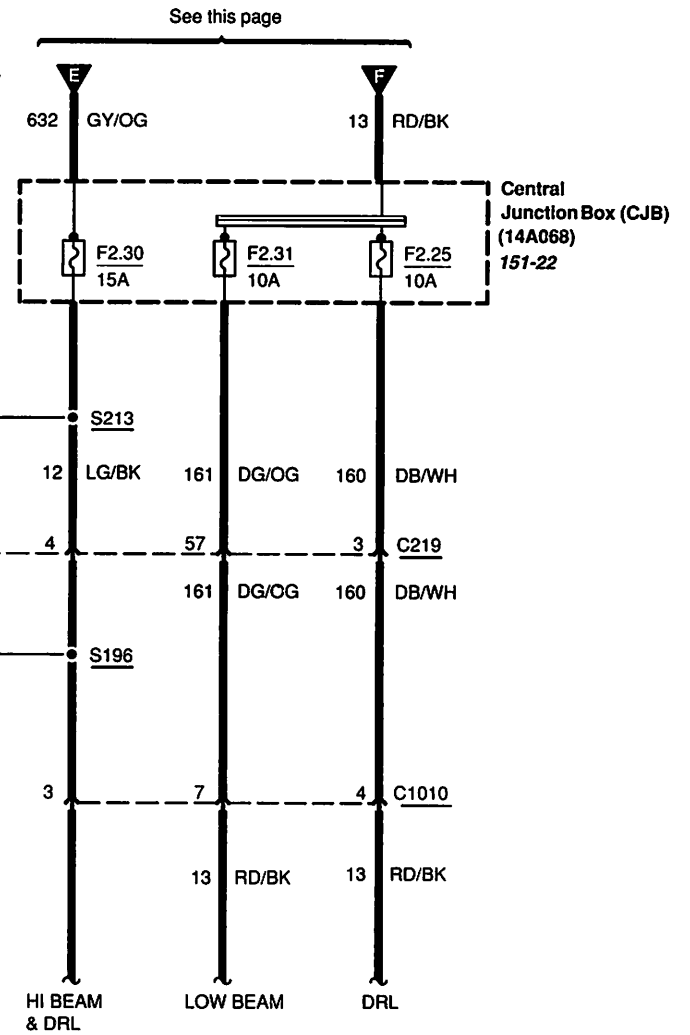
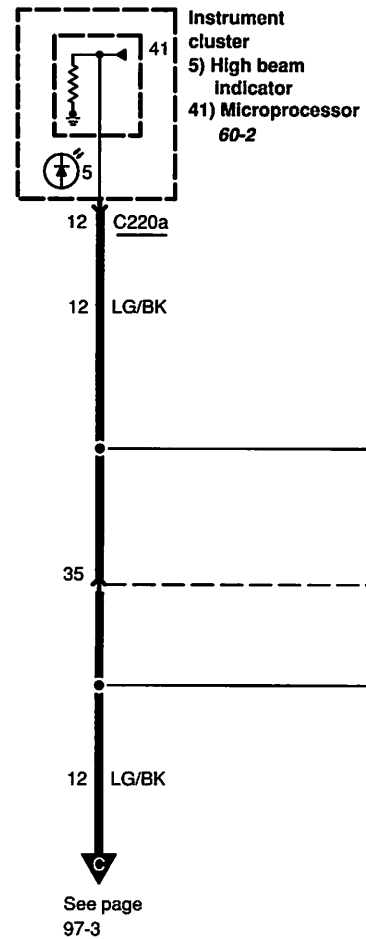
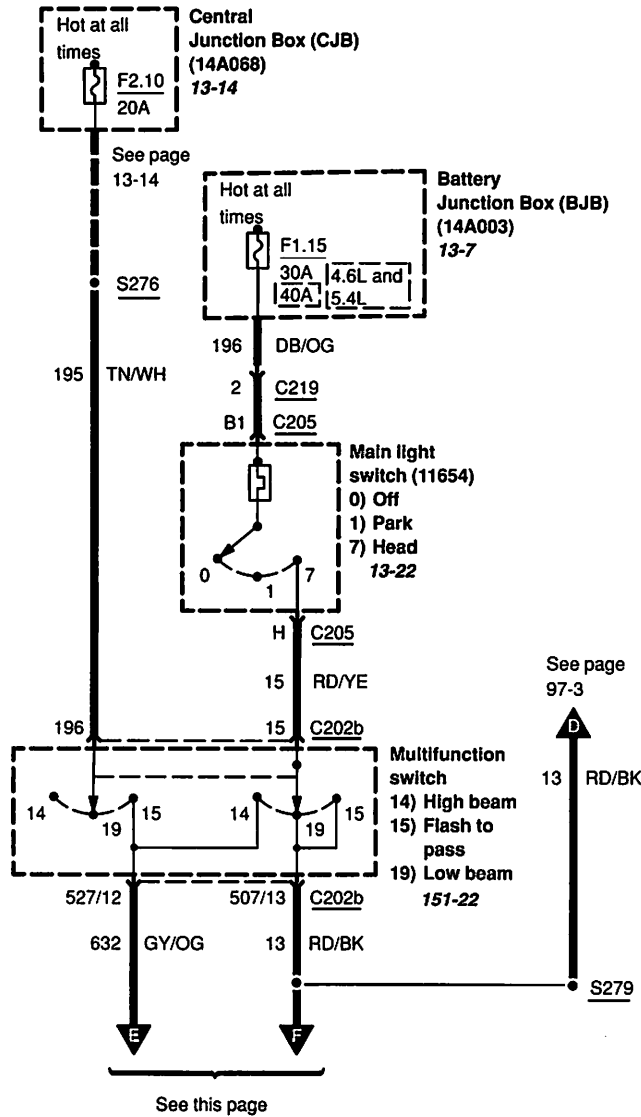
Stripped chassis

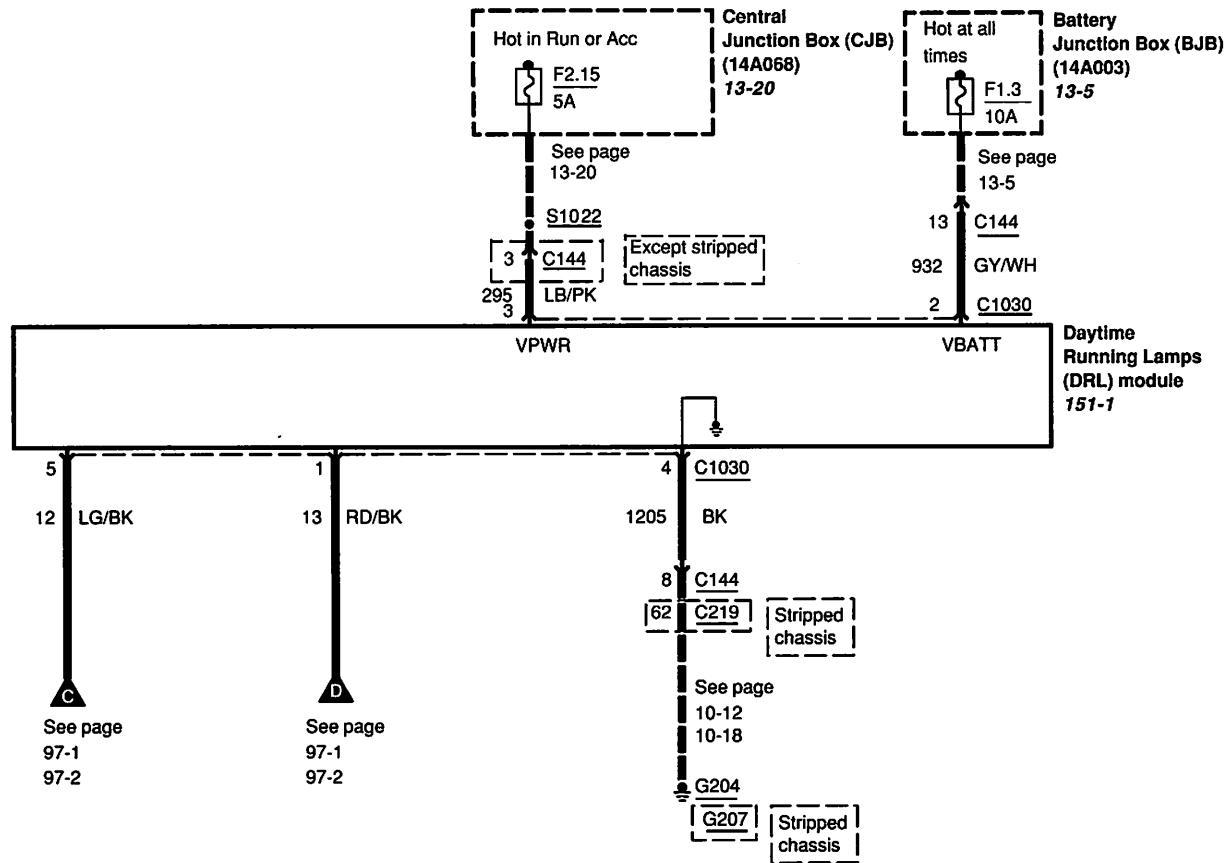


Except stripped chassis

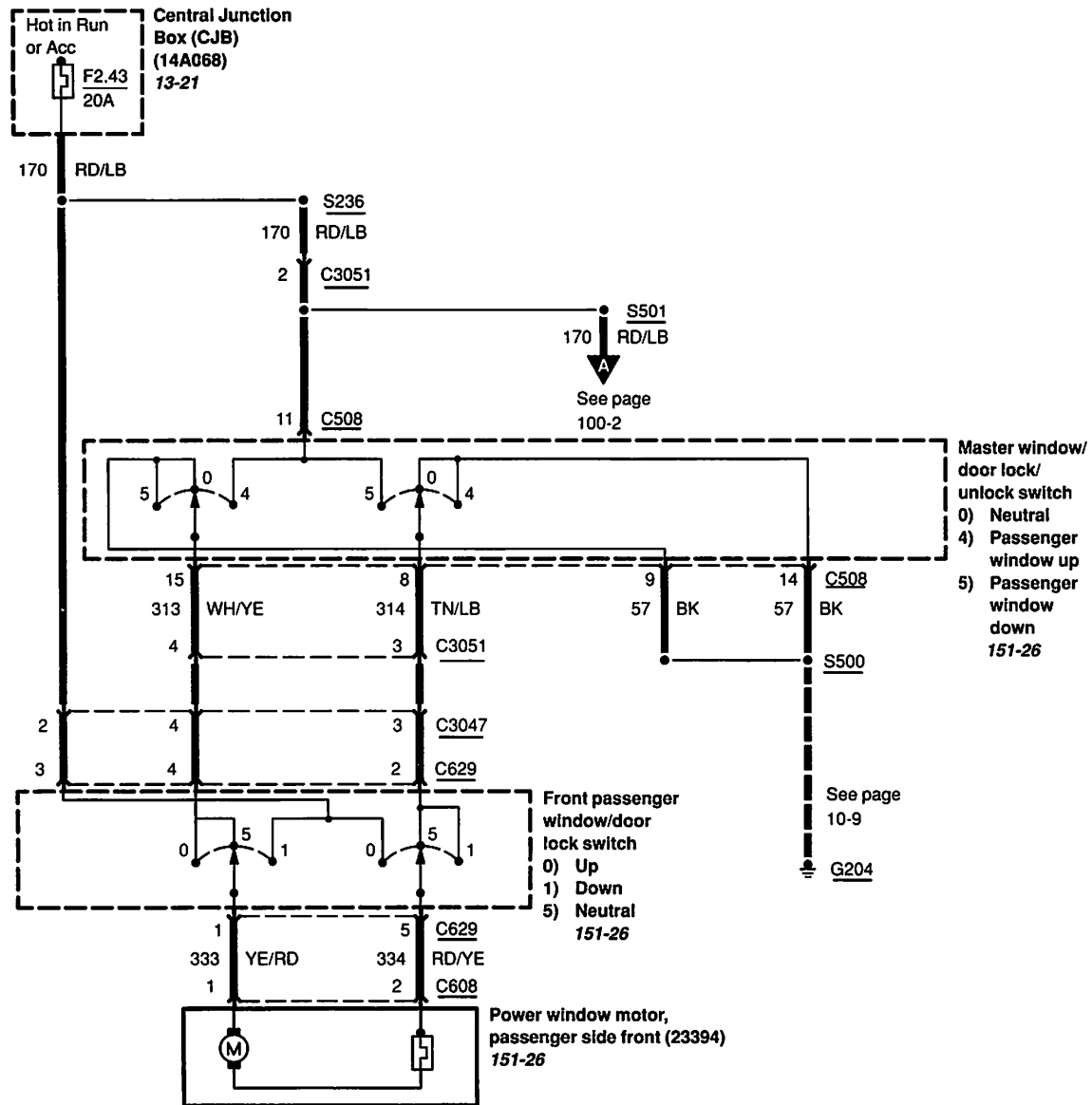


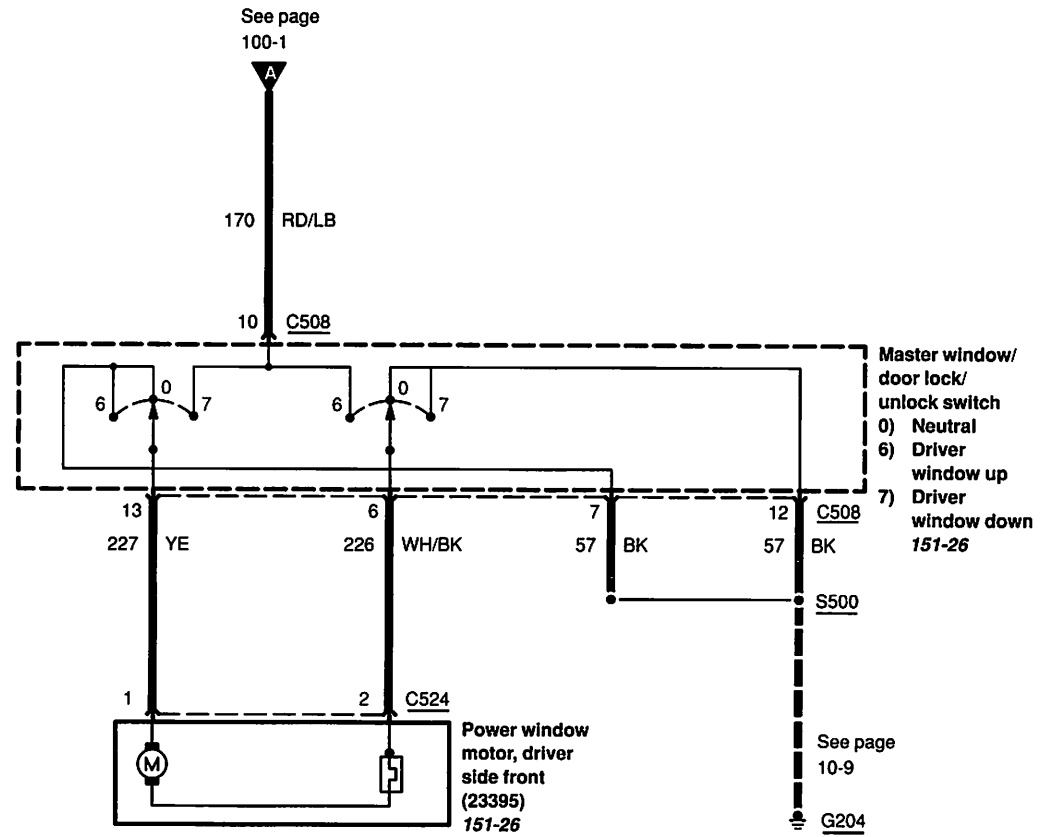
Stripped chassis

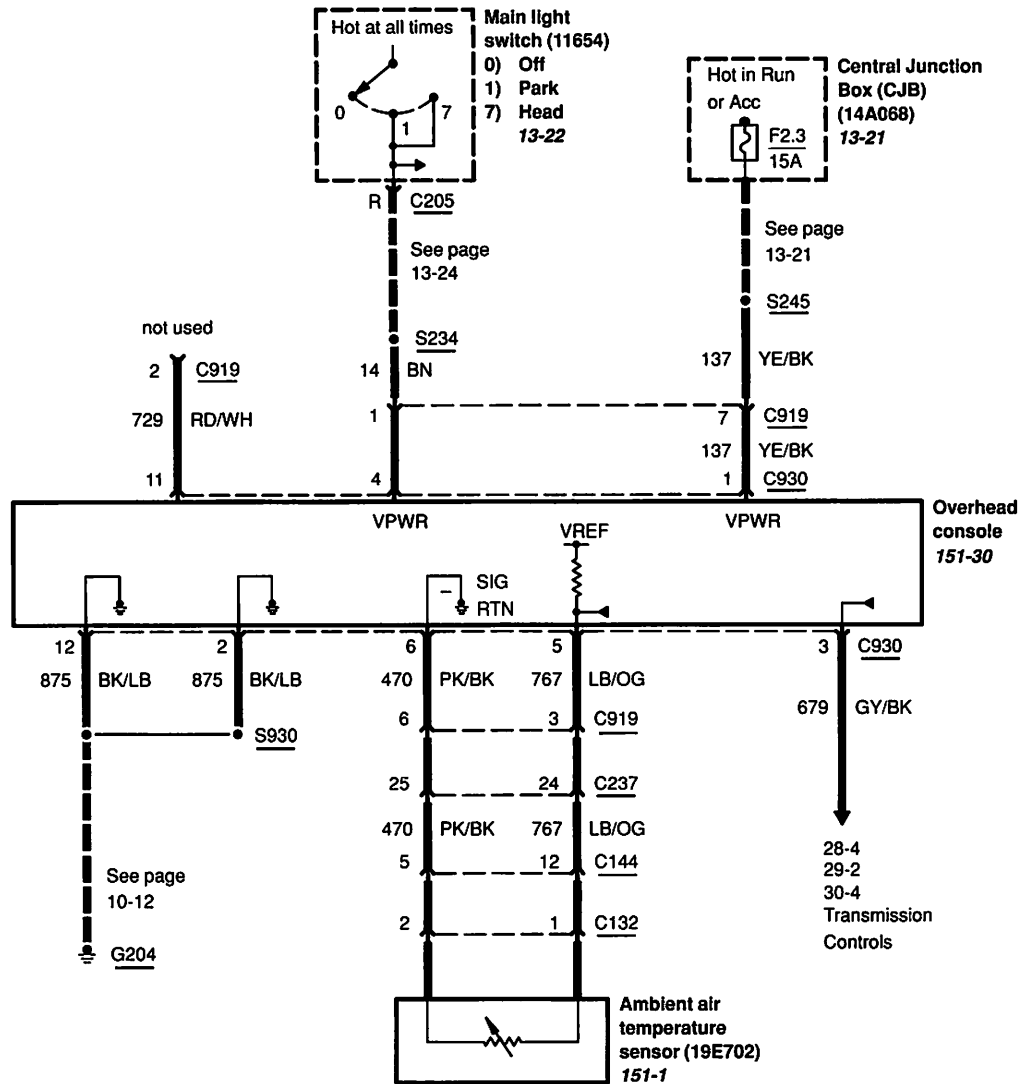




Notes



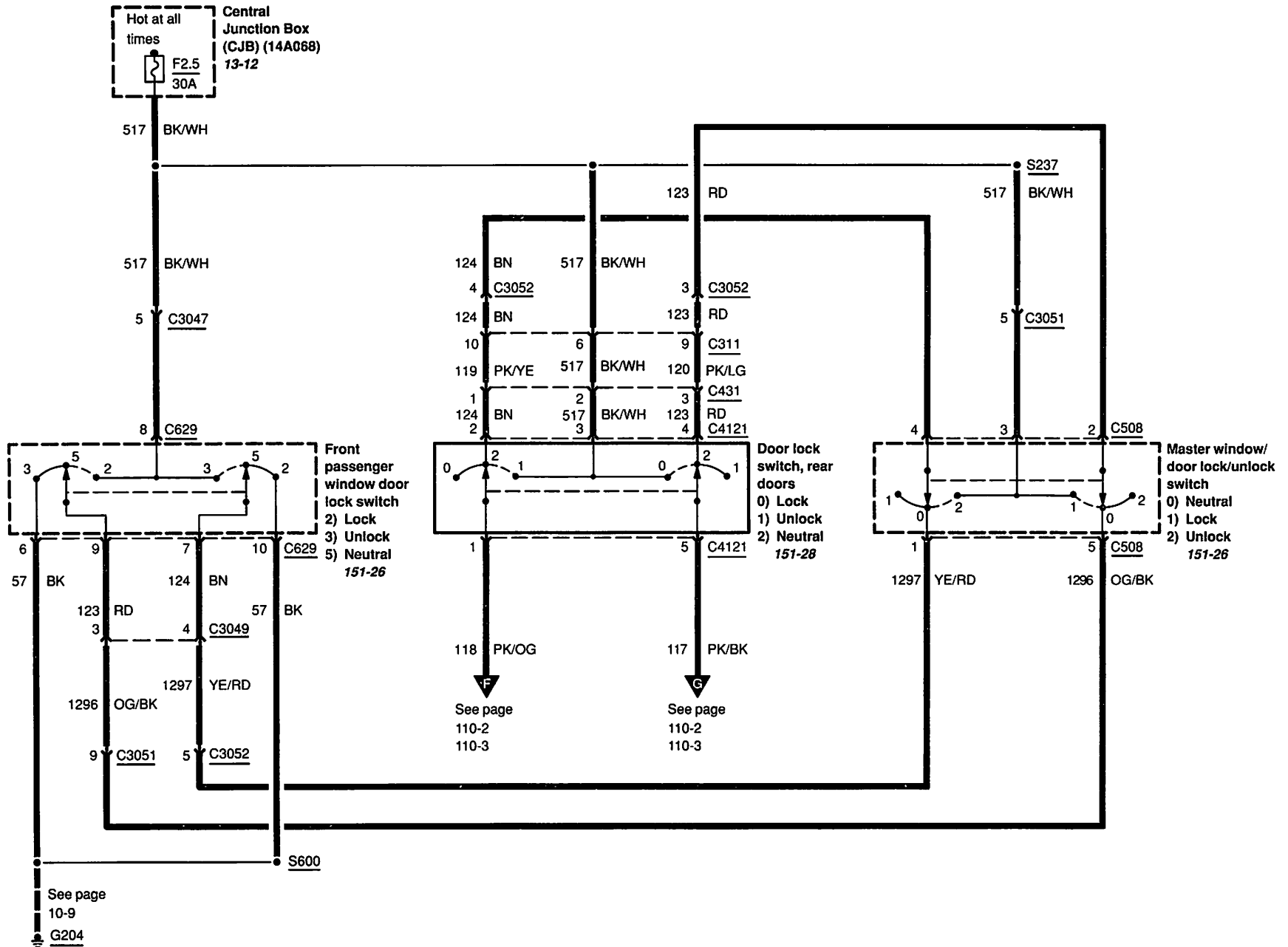




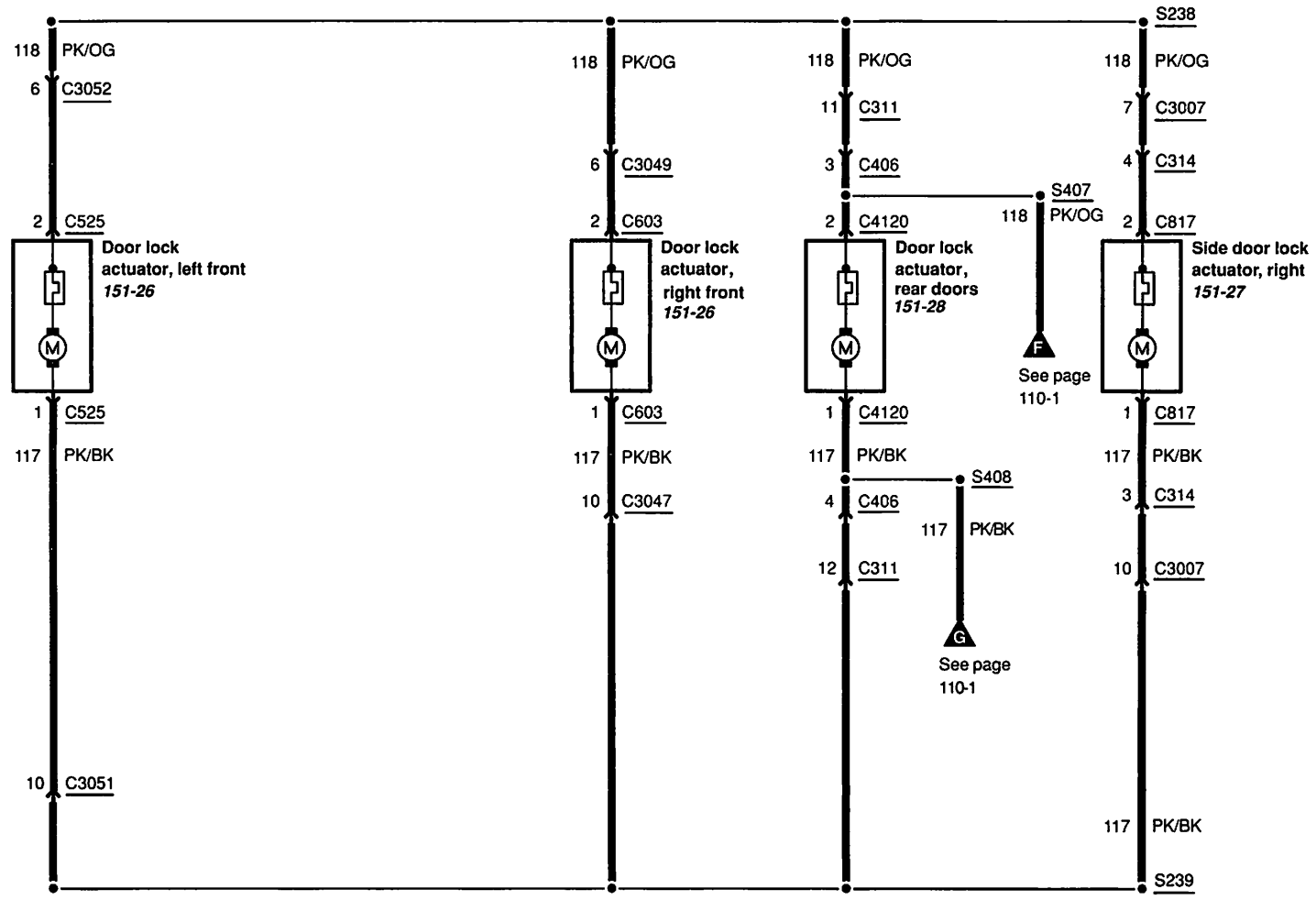
Notes

110-1 Power Door Locks

Except cutaway

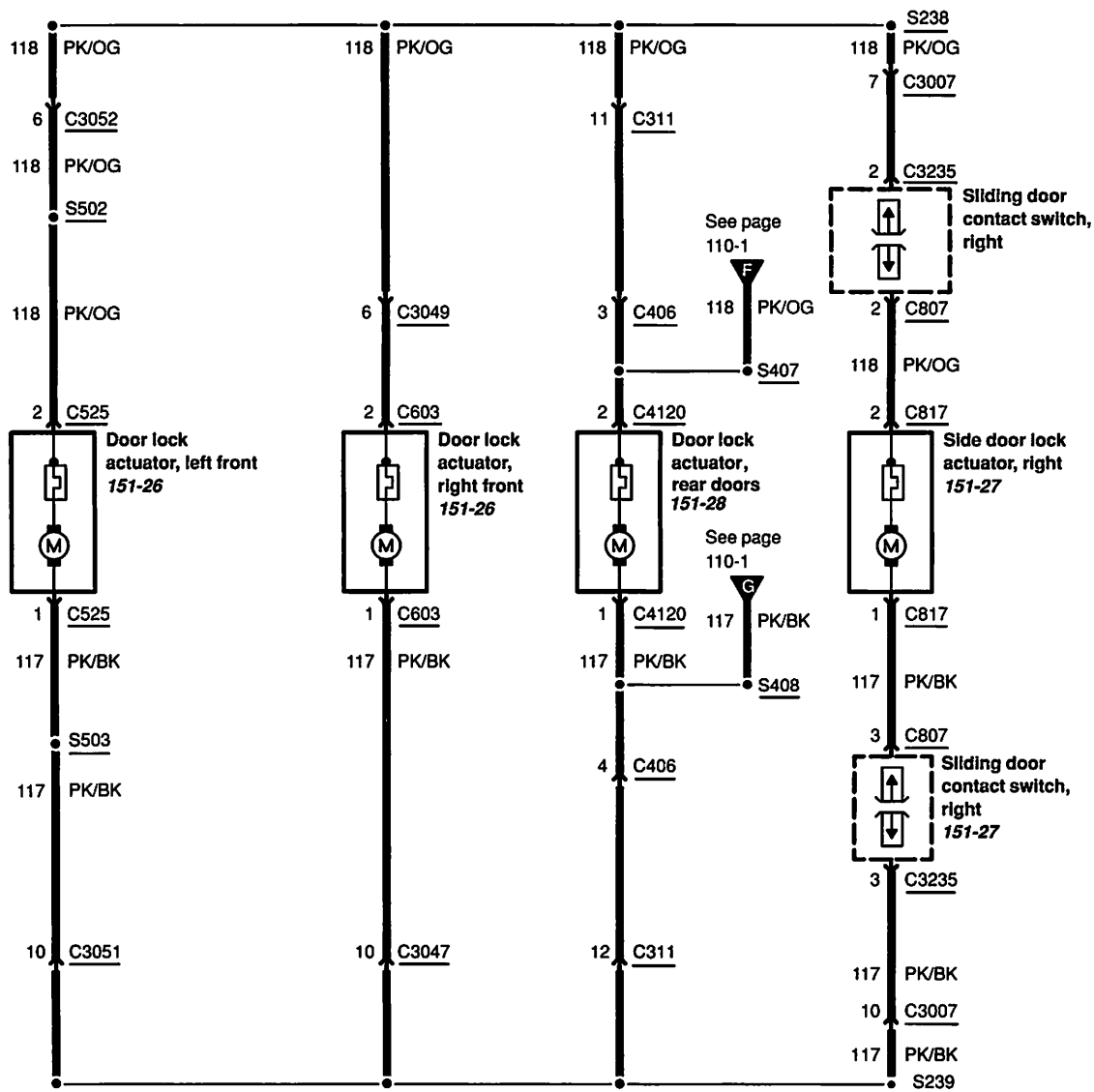


Except cutaway;
with hinged side door

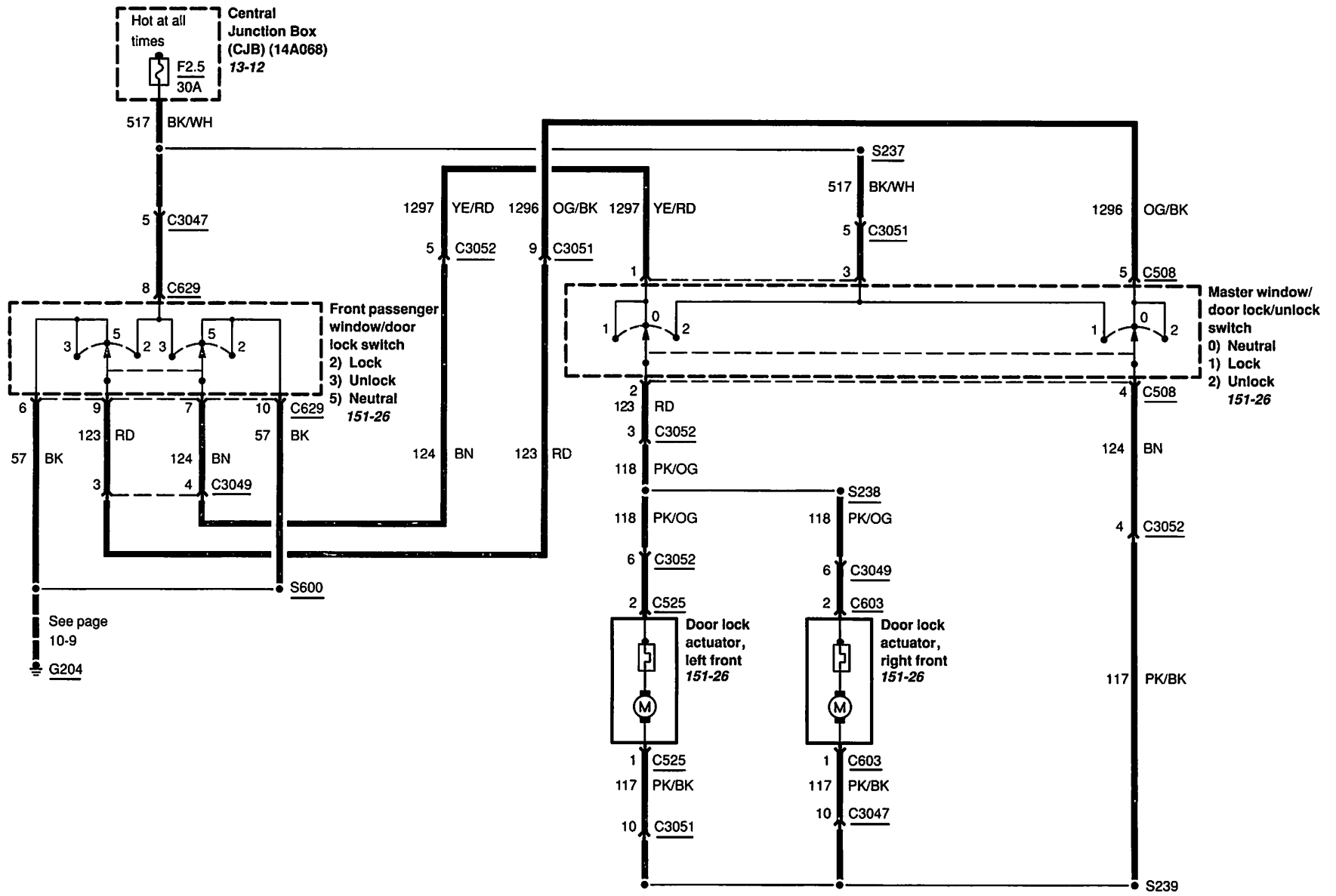


110-3 Power Door Locks

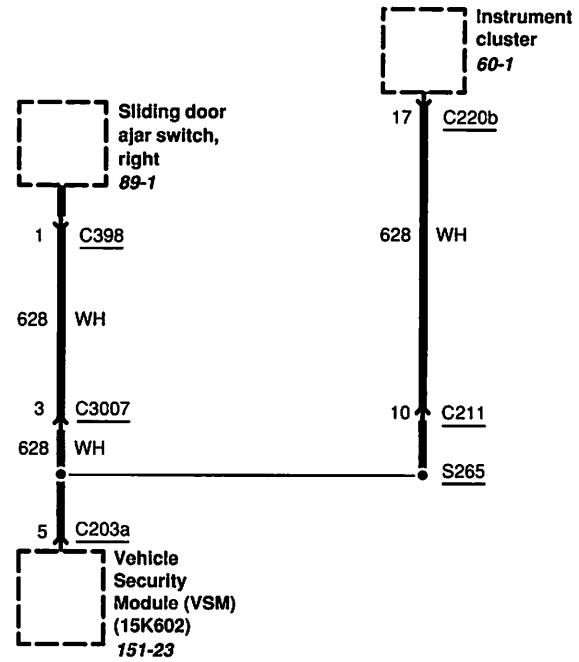
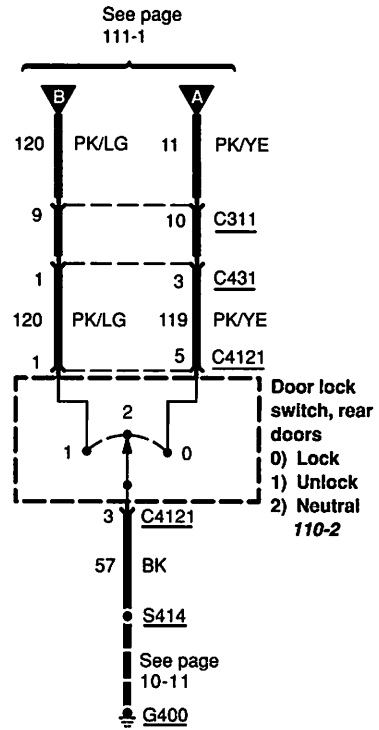
Except cutaway;
with sliding side door

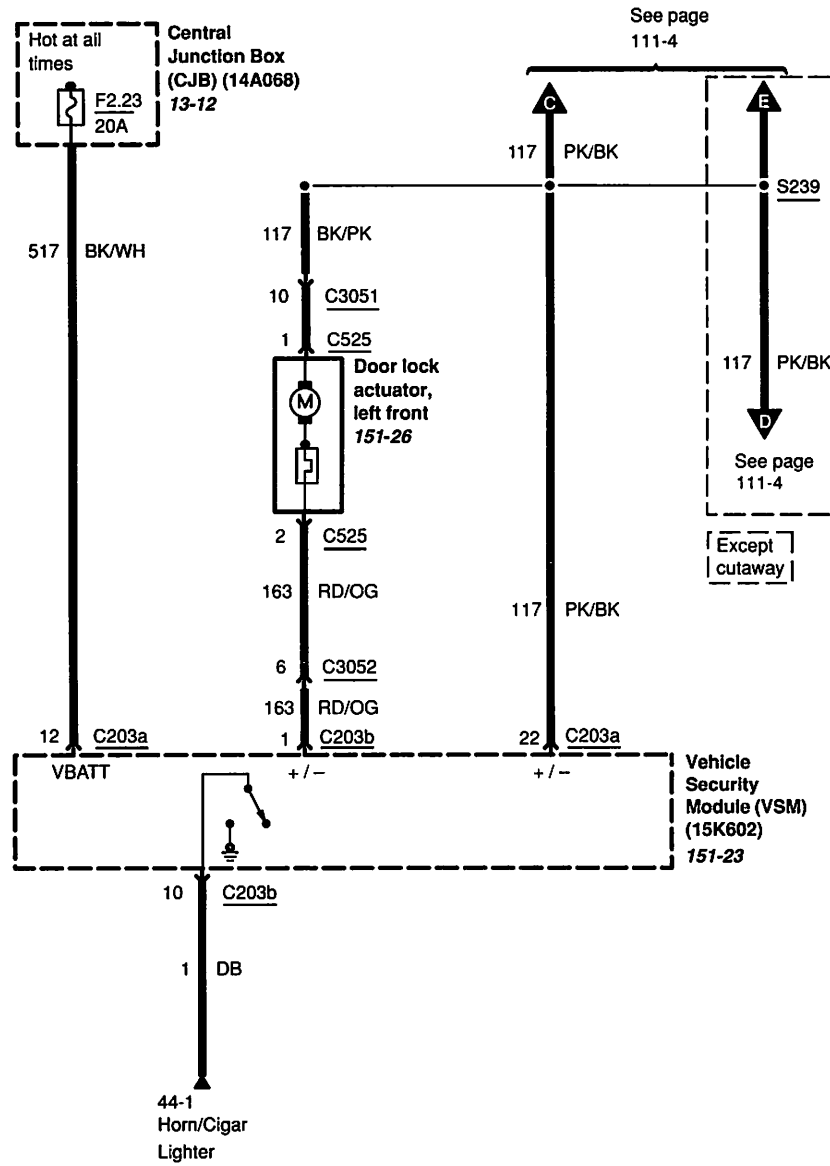


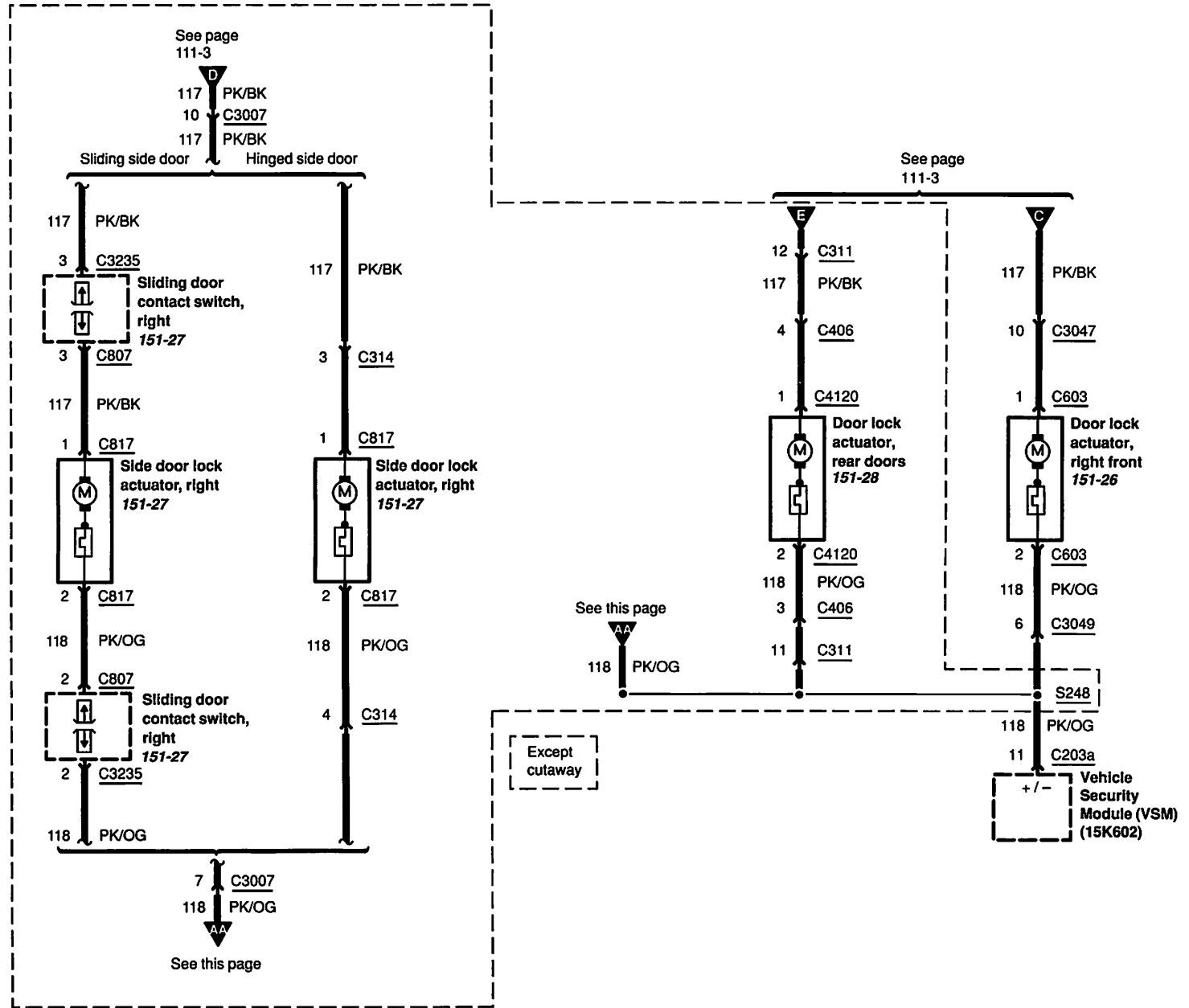
Cutaway

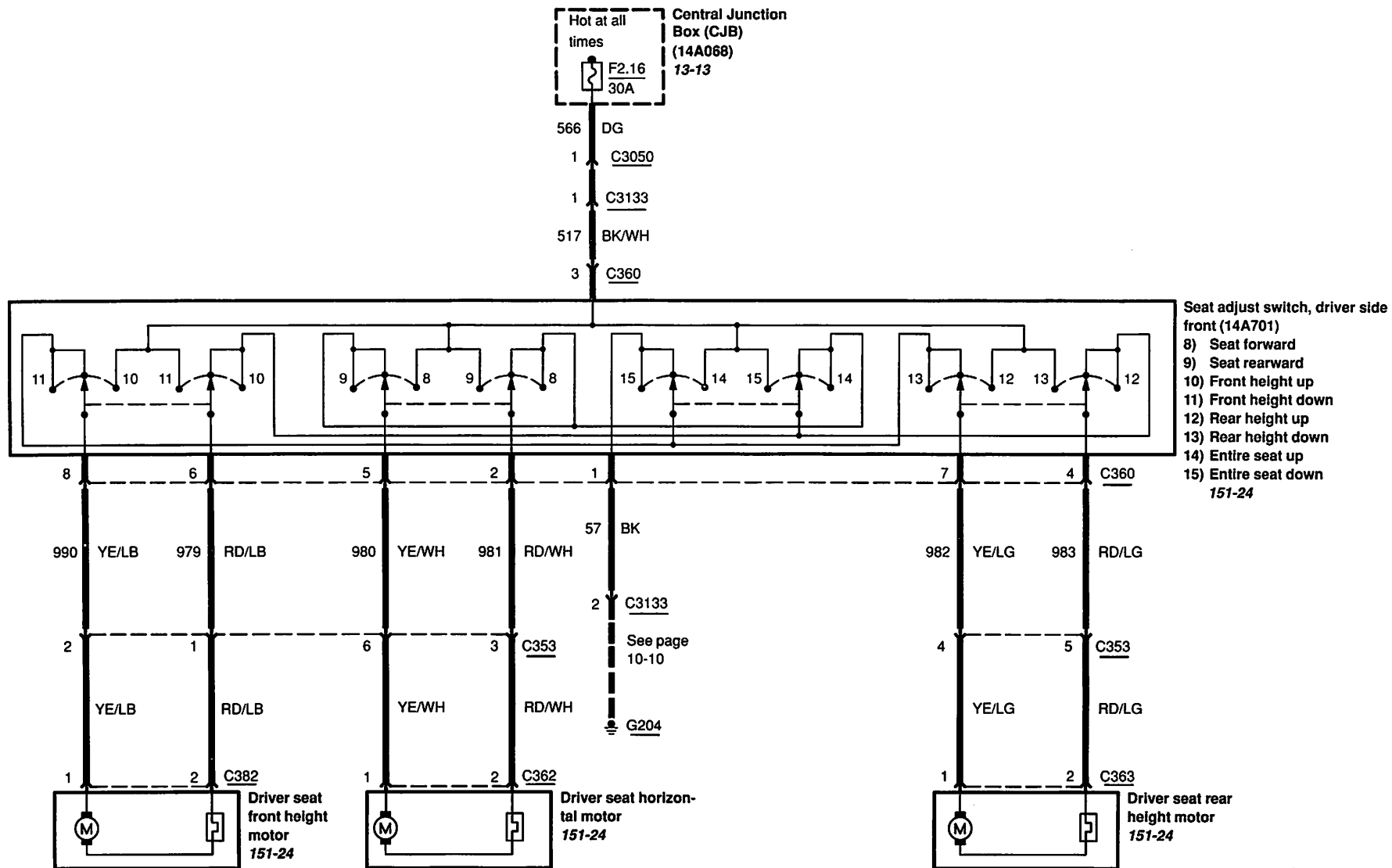


Except cutaway

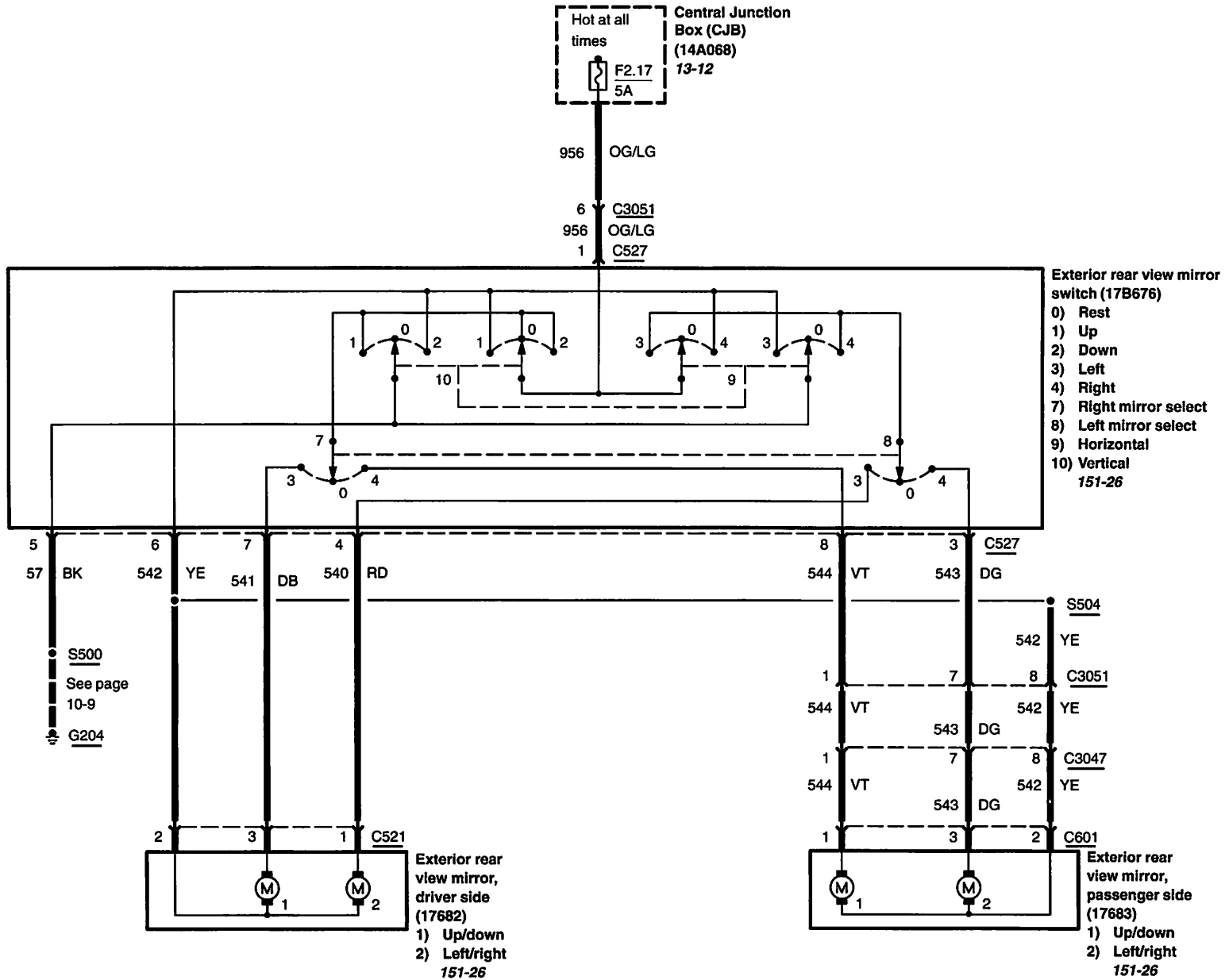




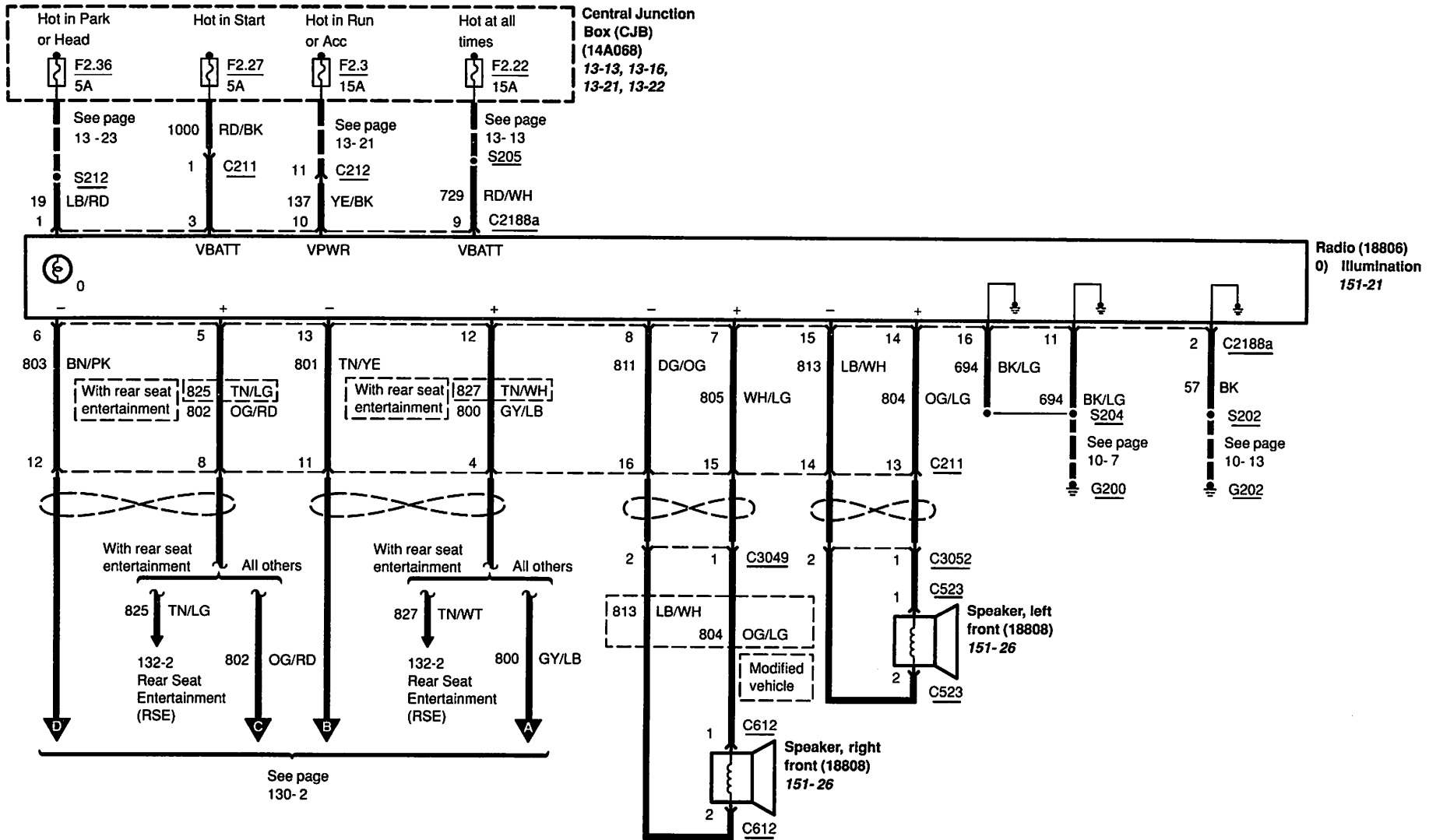




Notes

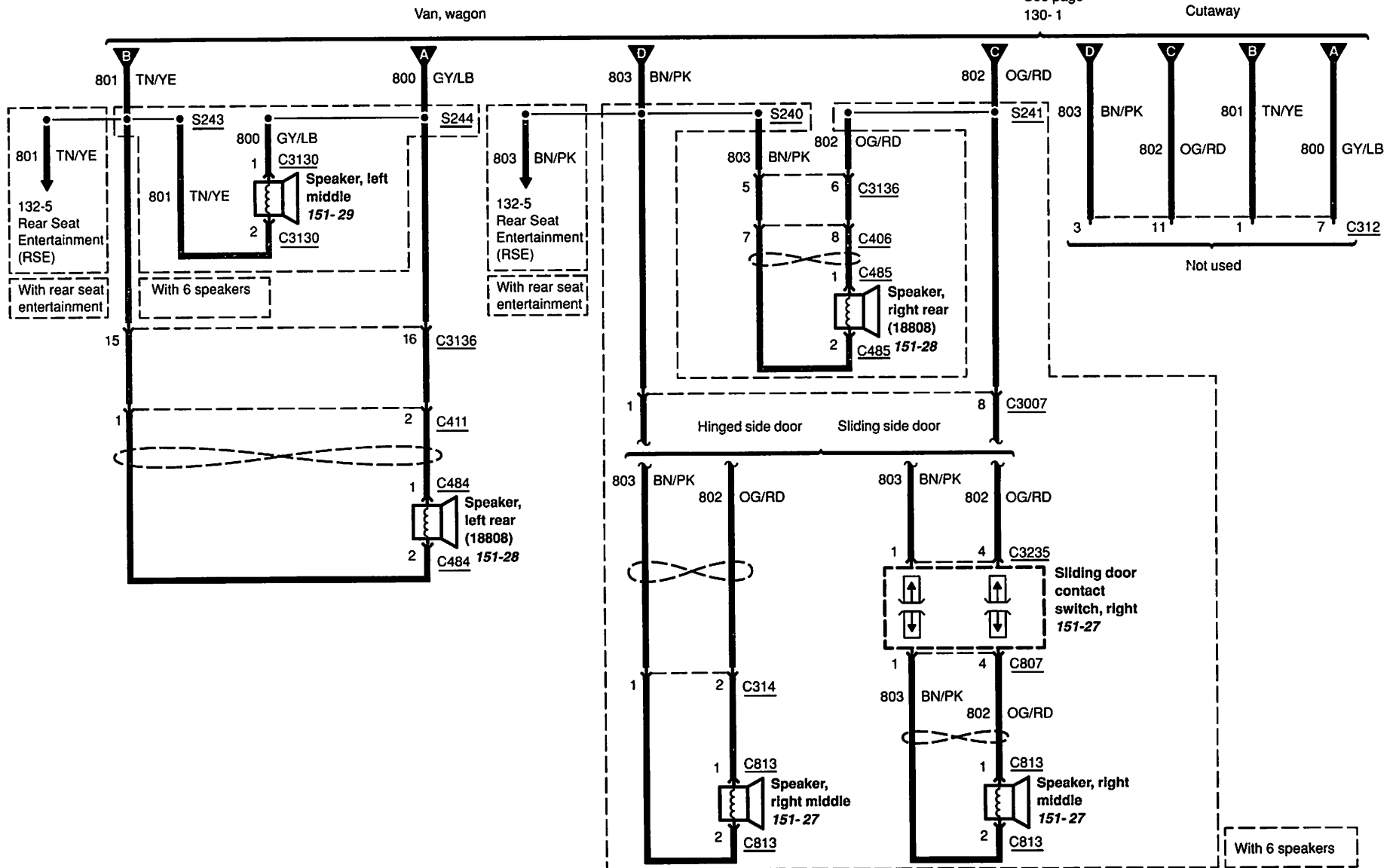


Notes

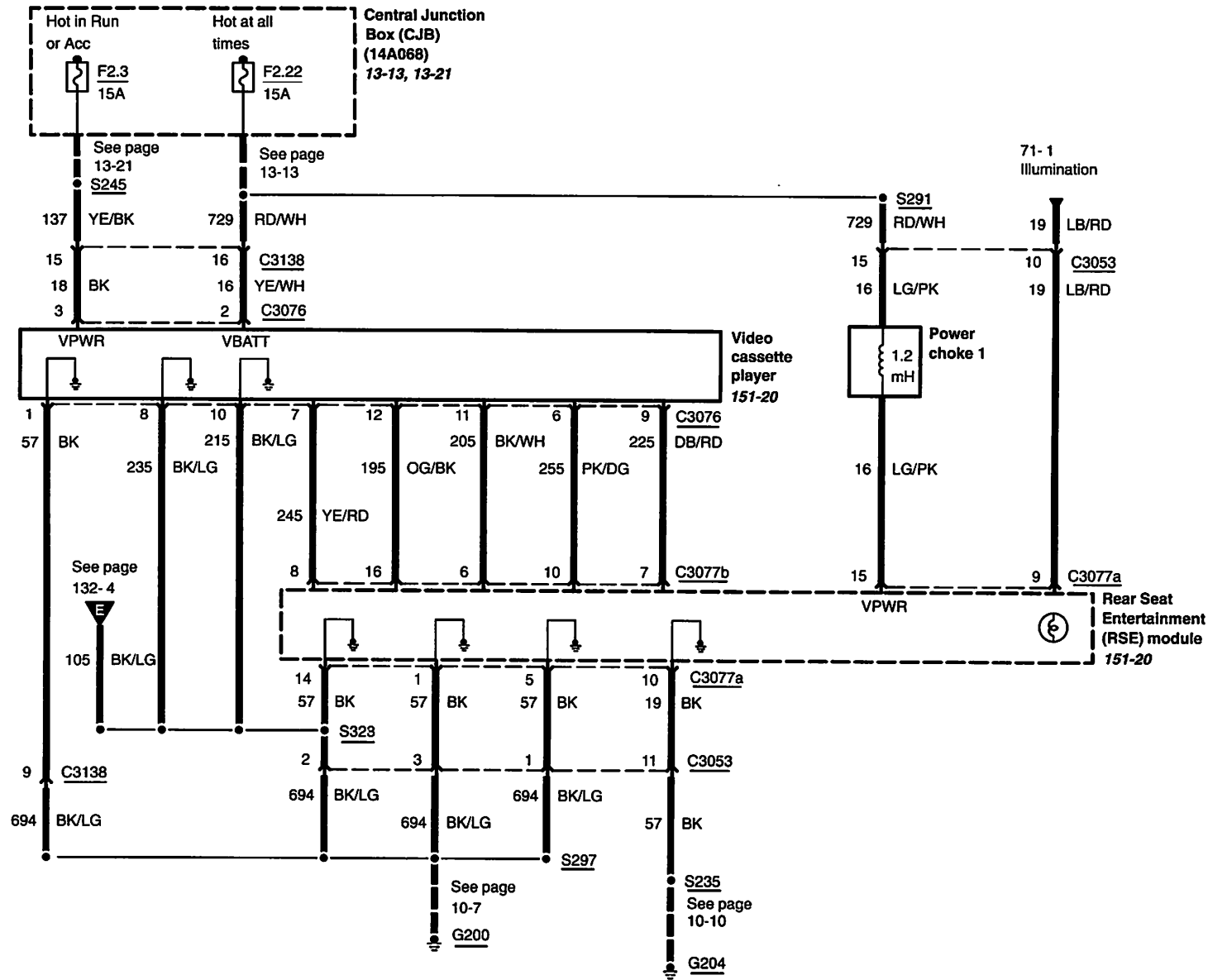


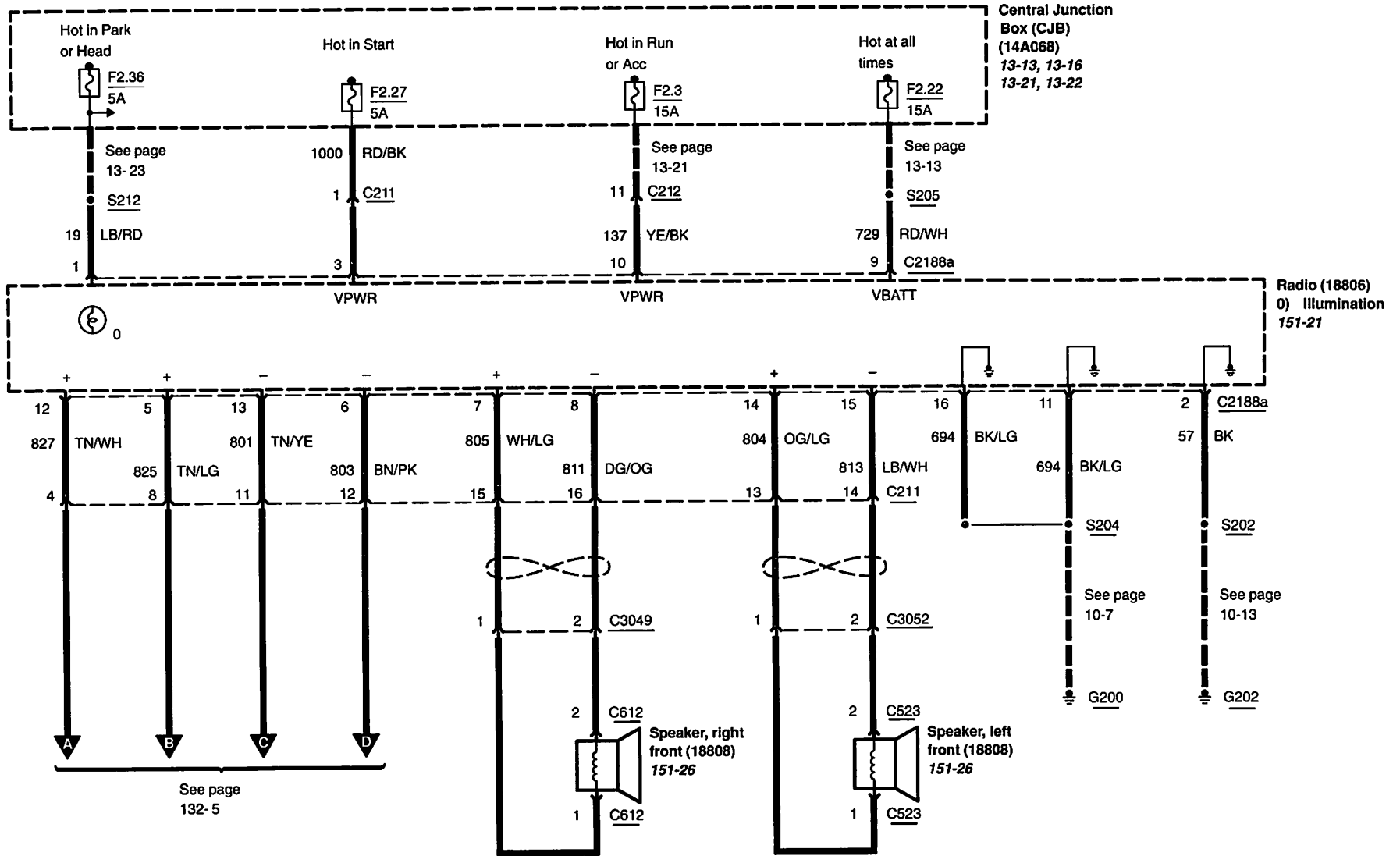
See page
130-1

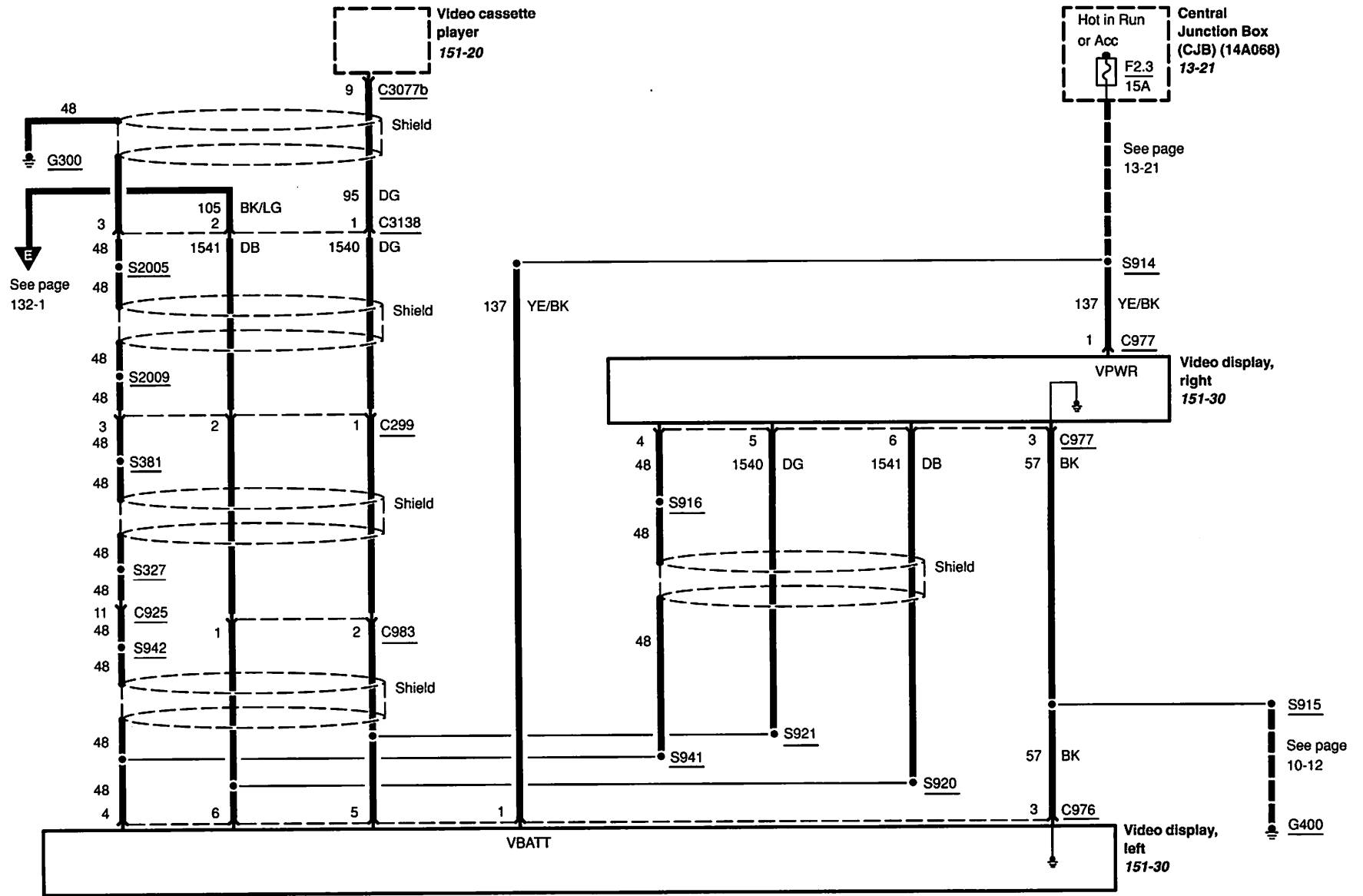
Cutaway



132-1 Rear Seat Entertainment (RSE)







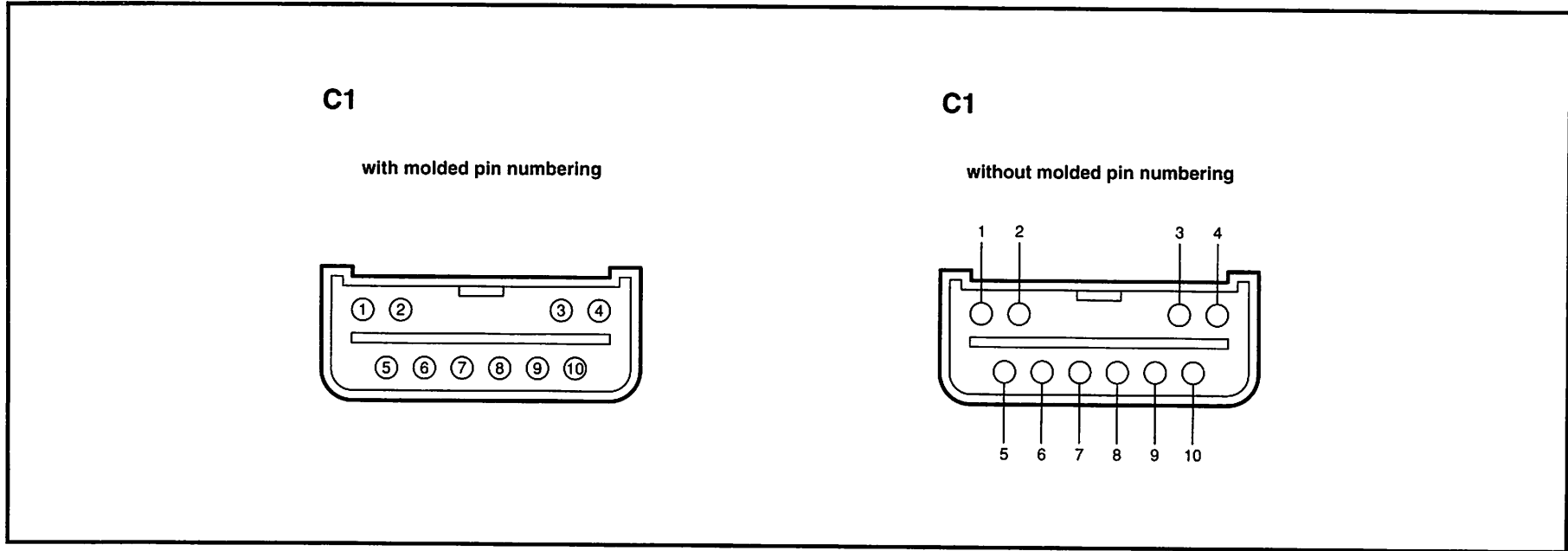
Notes

Introduction

Component testing procedures are provided to determine whether a component is good or bad.

Testing information for each component includes a schematic, a view of the terminal locations and step-by-step test procedures. Terminal locations are identified by numbers or letters that may be on the component or next to it.

Terminals



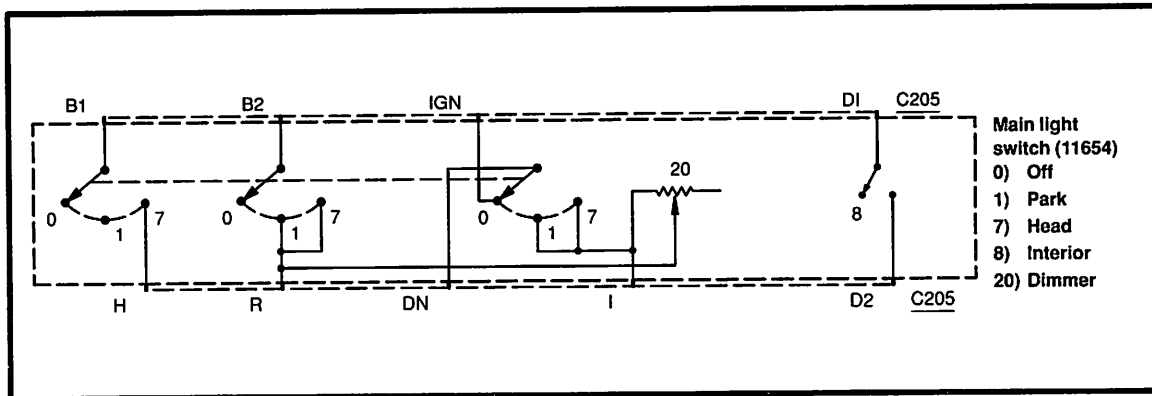
The component connector **MUST BE REMOVED** before testing. To test a single circuit within the component, select that circuit under the column "Circuit to test". If you wish to test the complete component, perform all tests.

Connect the tester to the terminals shown in the second column and operate the component as shown in the third column.

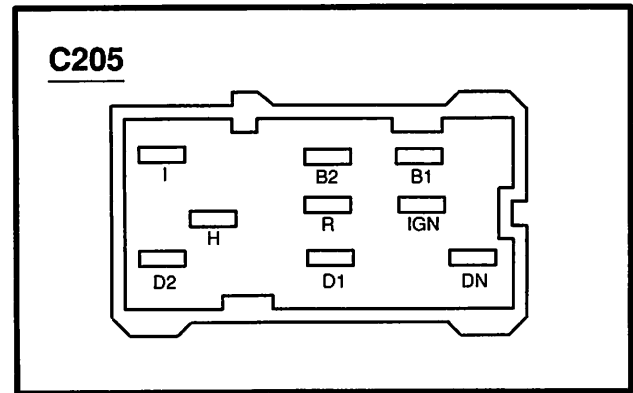
Numbers molded on the component do not necessarily reflect harness side connector.

Headlamp switch

Schematic



Terminals

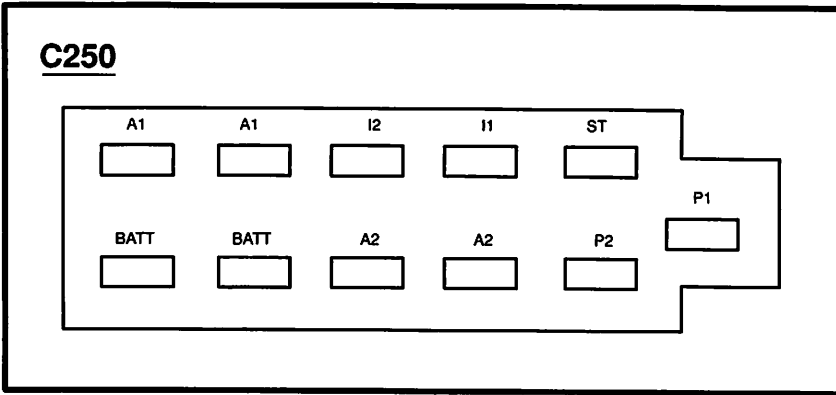


Component testing procedure

Circuit to test	Connect self-powered test light or ohmmeter to terminals	Move switch to these positions	A good switch will indicate
Headlamp	B1 and H	Off	Open circuit
		Park	Open circuit
		Head	Closed circuit
Park lamps	B2 and R	Off	Open circuit
		Park	Closed circuit
		Head	Closed circuit
Interior lamp	D1 and D2	Knob rotated fully counterclockwise (in detent)	Closed circuit
		Knob rotated fully clockwise (out of detent)	Open circuit
Illumination dimmer	R and 1	Rotate knob clockwise	Ohmmeter will show smoothly increasing resistance

Ignition switch (11572)

Terminals

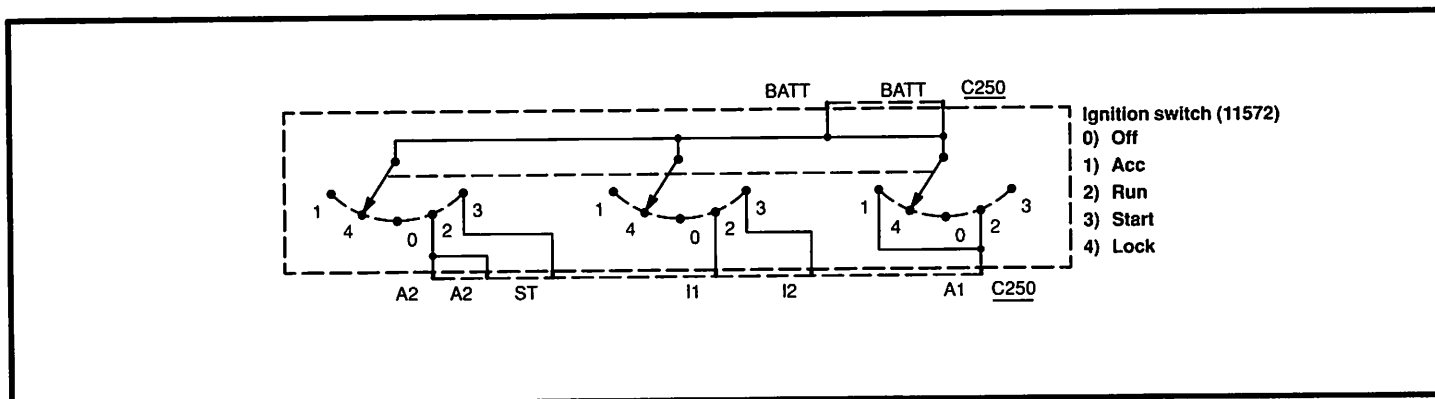


Component testing procedure

Circuit to test	Connect self-powered test light or ohm-meter to terminals	Move key to these positions	A good switch will indicate
Battery Power Circuit	BATT and BATT, A2 and A2	Off/Lock	Closed circuit
		Run	Closed circuit
		Start	Closed circuit
		Accessory	Closed circuit
Start power circuit	BATT and ST, BATT and I2	Off/Lock	Open circuit
		Run	Open circuit
		Start	Open circuit
		Accessory	Open circuit
Run power circuit	BATT and A2, BATT and I1	Off/Lock	Open circuit
		Run	Closed circuit
		Start	Open circuit
		Accessory	Open circuit
Run/Acc power circuit	BATT and A1	Off/Lock	Open circuit
		Run	Closed circuit
		Start	Open circuit
		Accessory	Closed circuit

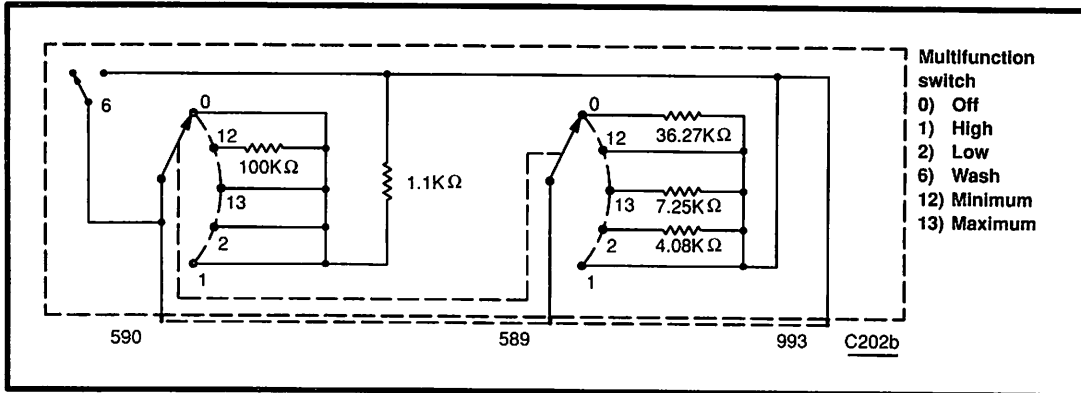
Ignition switch (11572) (continued)

Schematic



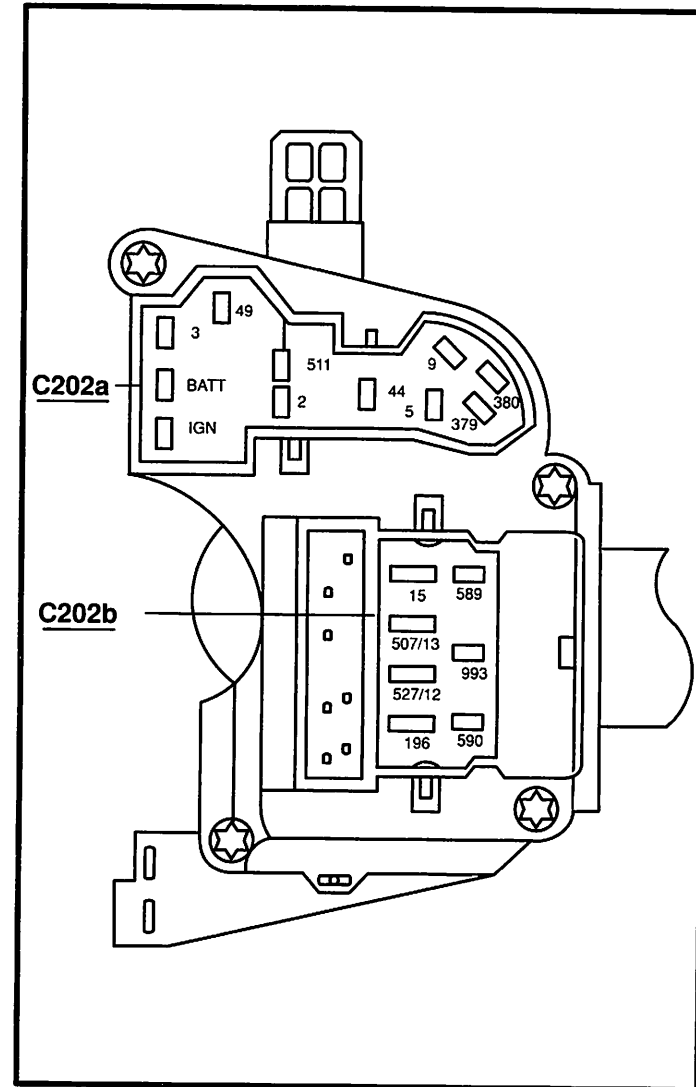
Multifunction switch

Schematic



- Multifunction switch**
 0) Off
 1) High
 2) Low
 6) Wash
 12) Minimum
 13) Maximum

Terminals

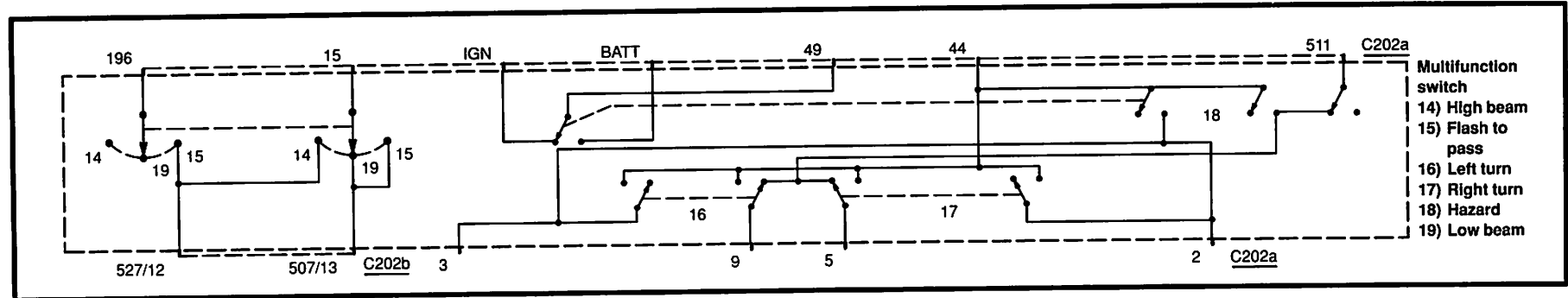


Component testing procedure

Circuit to test	Connect self-powered test light or ohmmeter to terminals	Move switch to these positions	A good switch will indicate
Washer switch circuit	590 and 993	Wiper switch, Off, Washer switch normal	Open circuit
		Wiper switch, Off, Washer switch depressed	Closed circuit
Washer switch circuit	589 and 590	Off	47.6K Ω
		Intermittent	11.33K Ω
		Low	4.08K Ω
		High	Closed circuit
Intermittent wiper circuit	590 and 993	Off	101.1K Ω
		Intermittent	1.1K Ω–101.1K Ω
		Low	1.1K Ω
		High	1.1K Ω

Multifunction switch (continued)

Schematic



Component testing procedure

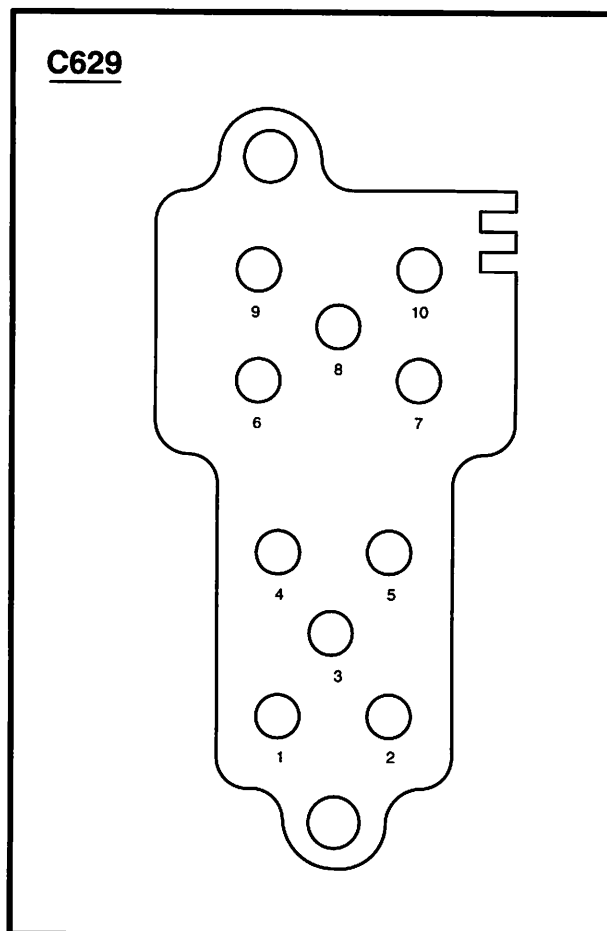
Circuit to test	Connect self-powered test light or ohmmeter to terminals	Move switch to these positions	A good switch will indicate
Turn signal	44, 9 and 3	Hazard switch to Normal (Off) and Turn switch to Left	Closed circuit
	44, 5 and 2	Hazard switch to Normal (Off) and Turn switch to Right	Closed circuit
Hazard	44, 2, 3, 5 and 9	Hazard switch to Hazard (On) (Button pushed in and then released to fully extended position)	Closed circuit
	511, 5 and 9	Hazard switch to Normal (Off) and Turn switch to Neutral	Closed circuit
Flash-to-pass	196 and 12	Pull and hold lever stalk toward steering wheel	Closed circuit
High beam	12 and 15	Lever stalk in detent away from steering wheel	Closed circuit
Low beam	15 and 13	Lever stalk in detent toward steering wheel	Closed circuit

Master window/door lock/unlock switch

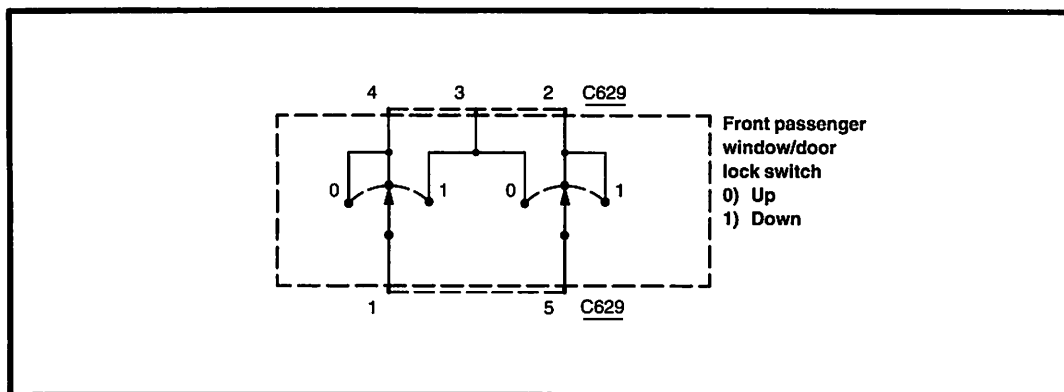
Component testing procedure

Circuit to test	Connect self-powered test light or ohmmeter to terminals	Move switch to these positions	A good switch will indicate
Up Switch Circuit	3 and 5	Up	Closed circuit
	4 and 1	Up	Closed circuit
		Rest	Closed circuit
Down Switch Circuit	3 and 1	Down	Closed circuit
	2 and 5	Down	Closed circuit
		Rest	Closed circuit

Terminals



Schematic



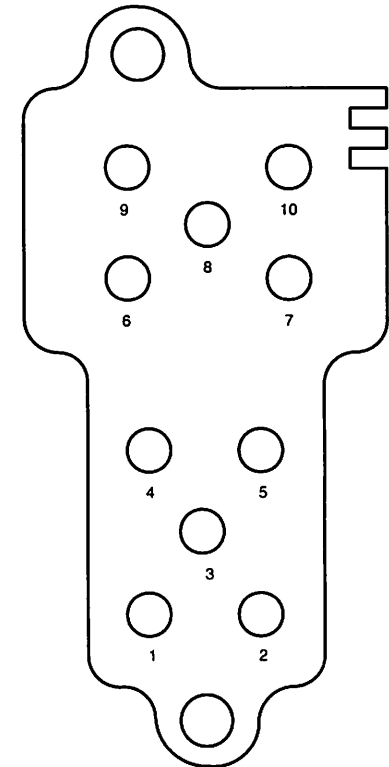
Master window/door lock/unlock switch

Component testing procedure

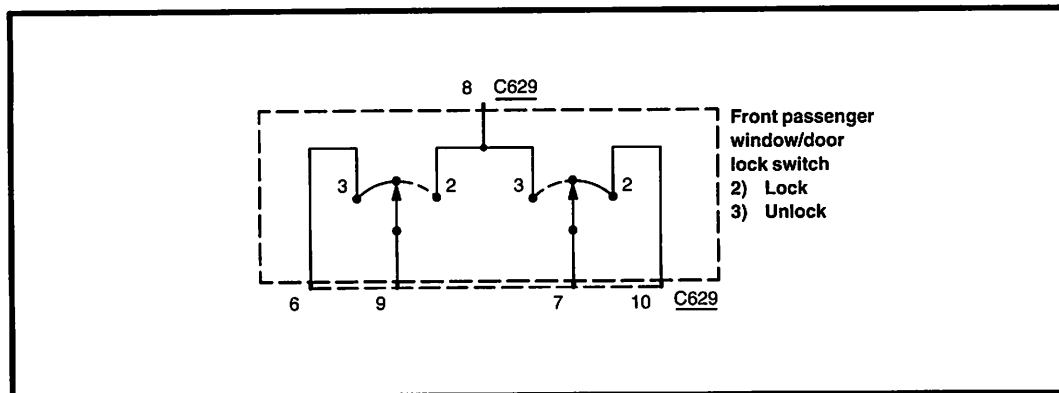
Circuit to test	Connect self-powered test light or ohmmeter to terminals	Move switch to these positions	A good switch will indicate
Lock Switch Circuit	8 and 9	Lock	Closed circuit
	7 and 10	Lock	Closed circuit
		Rest	Closed circuit
Unlock Switch Circuit	8 and 7	Unlock	Closed circuit
	6 and 9	Unlock	Closed circuit
		Rest	Closed circuit

Terminals

C629



Schematic

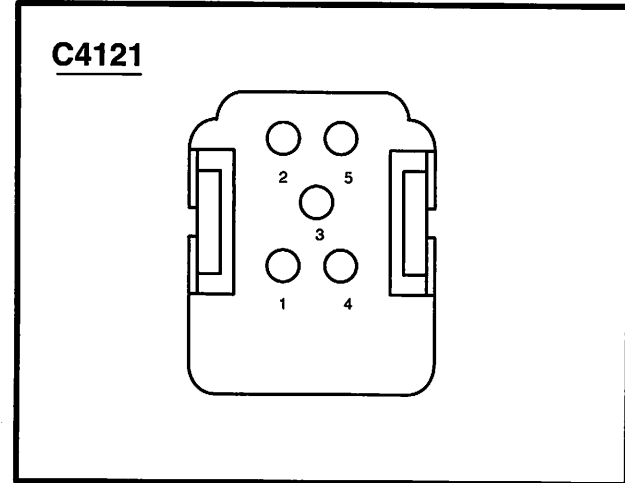


Door lock switch, rear doors

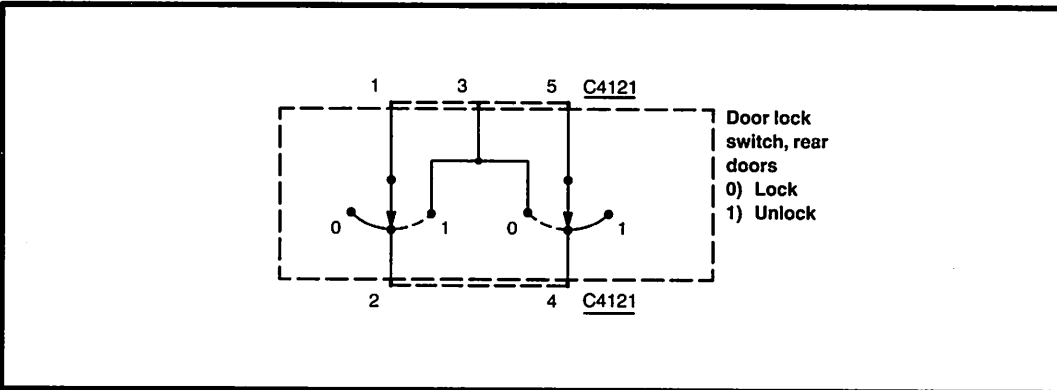
Component testing procedure

Circuit to test	Connect self-powered test light or ohmmeter to terminals	Move switch to these positions	A good switch will indicate
Lock Switch Circuit	3 and 5	Lock	Closed circuit
	1 and 2	Lock	Closed circuit
		Rest	Closed circuit
Unlock Switch Circuit	3 and 1	Unlock	Closed circuit
	5 and 4	Unlock	Closed circuit
		Rest	Closed circuit

Terminals



Schematic

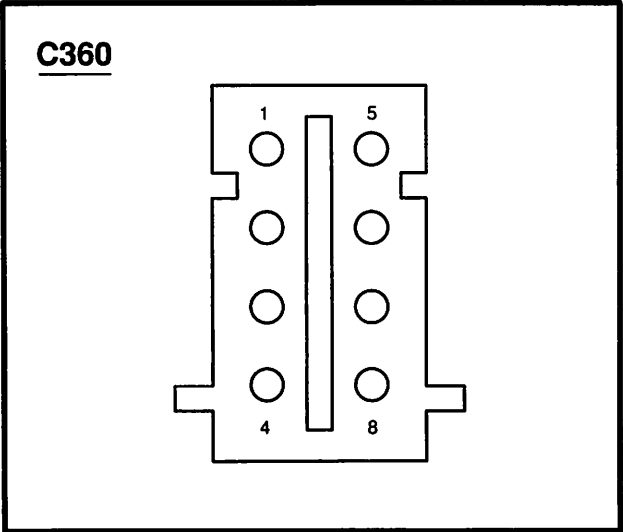


Seat adjust switch, driver side front (14A701)

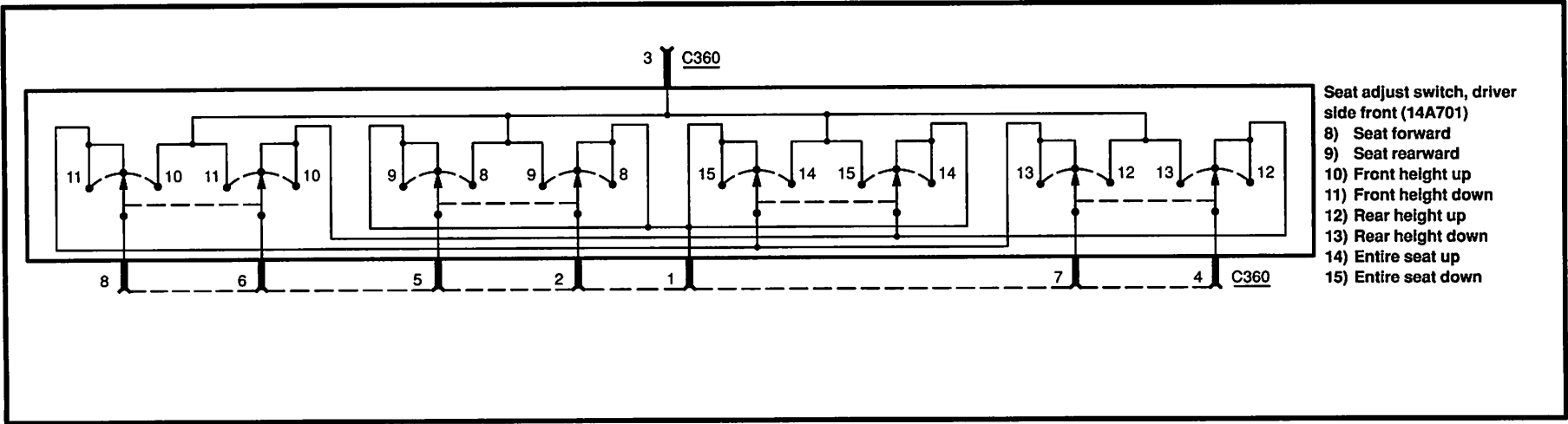
Component testing procedure

Circuit to test	Connect self-powered test light or ohmmeter to terminals	Move switch to these positions	A good switch will indicate
Power and Ground Checks Before Any Other Tests	3 and 1	Rest	Open circuit
	1 and all others except 3	Rest	Closed circuit
Front up/down circuit	3 and 8	Up	Closed circuit
	3 and 6	Down	Closed circuit
Rear up/down circuit	3 and 7	Up	Closed circuit
	3 and 4	Down	Closed circuit
Entire seat circuit	3 and 2	Rearward	Closed circuit
	3 and 5	Forward	Closed circuit
	3 and 6	Down	Closed circuit
	3 and 4	Down	Closed circuit
	3 and 8	Up	Closed circuit
	3 and 7	Up	Closed circuit

Terminals

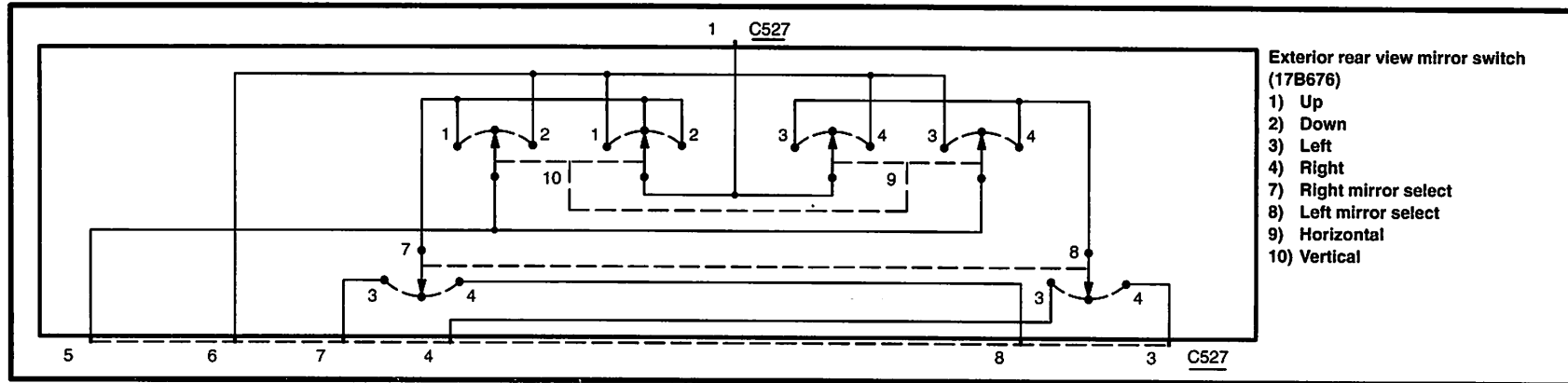


Schematic



Exterior rear view mirror switch (17B676)

Schematic

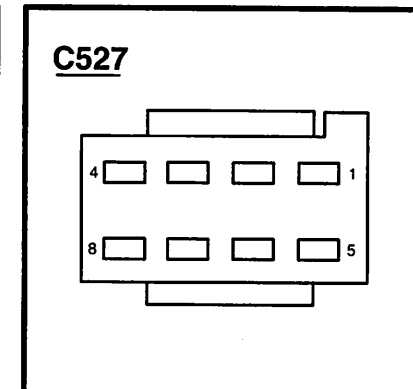


- Exterior rear view mirror switch (17B676)
- 1) Up
 - 2) Down
 - 3) Left
 - 4) Right
 - 7) Right mirror select
 - 8) Left mirror select
 - 9) Horizontal
 - 10) Vertical

Component testing procedure

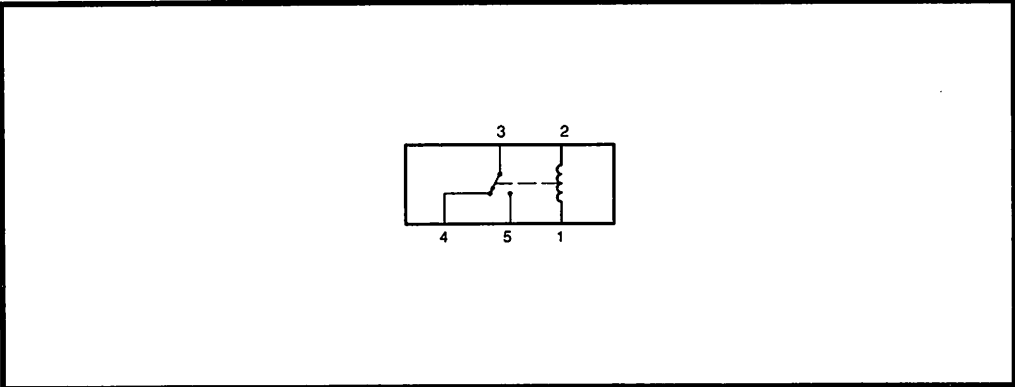
Circuit to test	Connect self-powered test light or ohmmeter to terminals	Move switch to these positions	A good switch will indicate
Left mirror		Selector switch Left	
Up	1 and 7 5 and 6	Up	Closed circuit
Down	1 and 6 5 and 7	Down	Closed circuit
Left	1 and 4 4 and 5	Left	Closed circuit
Right	1 and 6 4 and 5	Right	Closed circuit
Right mirror		Selector switch Right	
Up	1 and 8 5 and 6	Up	Closed circuit
Down	1 and 6 5 and 8	Down	Closed circuit
Left	1 and 3 5 and 6	Left	Closed circuit
Right	1 and 6 3 and 5	Right	Closed circuit

Terminals

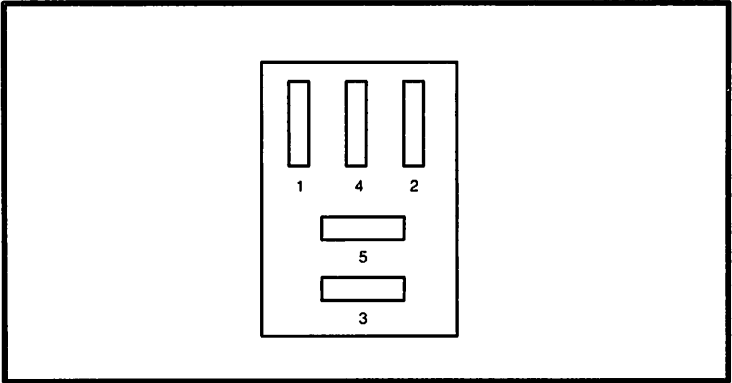


Relay – Micro ISO

Schematic



Terminals



Component testing procedure (no voltage applied)

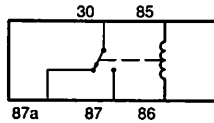
Circuit to test	Connect ohmmeter to terminals	A good relay will indicate
Coil	1 and 2	100–150 Ω
Contact	3 and 4	Closed circuit
	3 and 5	Open circuit
Coil - Contact	1 and 3	Open circuit
	1 and 4	Open circuit
	1 and 5	Open circuit

Component testing procedure (voltage applied)

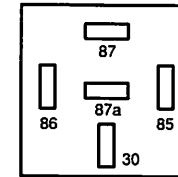
Disconnect the ohmmeter; connect pins 2 and 3 to 12V DC power and pin 1 to ground. Measure voltage between pin 5 and pin 1. If the voltage is 12V, continue with the test. If not, replace the relay. Disconnect power from pin 2 and measure voltage between pin 4 and pin 1. If the voltage is 12V, the relay is okay. If not, replace the relay.

Relay – Mini ISO

Schematic



Terminals



Component testing procedure (no voltage applied)

Circuit to test	Connect ohmmeter to terminals	A good relay will indicate
Coil	85 and 86	50–100 Ω
Contact	30 and 87a	Closed circuit
	30 and 87	Open circuit
Coil - Contact	86 and 30	Open circuit
	86 and 87a	Open circuit
	86 and 87	Open circuit

Component testing procedure (voltage applied)

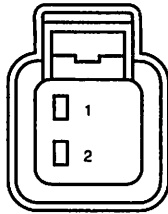
Disconnect the ohmmeter; connect pins 30 and 85 to 12V DC power and pin 86 to ground. Measure voltage between pin 87 and pin 86. If the voltage is 12V, continue with the test. If not, replace the relay. Disconnect power from pin 85 and measure voltage between pin 87a and pin 86. If the voltage is 12V, the relay is okay. If not, replace the relay.

Notes

C100 (BK)

12B637

A/C clutch field coil



FEMALE

* Diesel

Pin	Circuit	Circuit function
1	57 (BK)	Ground
2	*321 (GY/WH)	A/C clutch relay, switched output
	347 (BK/YE)	A/C clutch relay, switched output

C102b (GY)

14305

Generator



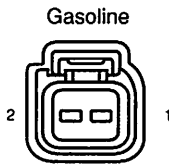
FEMALE

Pin	Circuit	Circuit function
1	4 (WH/BK)	Stator circuit

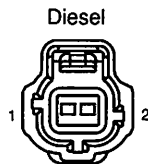
C101 (BK)

12B637

Crankshaft position sensor (6C315)



FEMALE



FEMALE

* Diesel

Pin	Circuit	Circuit function
1	350 (GY)	Crankshaft position sensor (6C315) -
	*349 (DB)	Crankshaft position sensor (6C315) +
2	349 (DB)	Crankshaft position sensor (6C315) +
	*350 (GY)	Crankshaft position sensor (6C315) -

C102c

14305

Generator



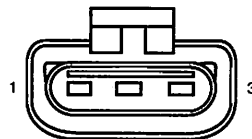
* Diesel

Pin	Circuit	Circuit function
B+	38 (BK/OG)	Voltage supplied at all times (not overload protected)
	* 1119 (RD)	

C102a (BK)

14305

Generator



FEMALE

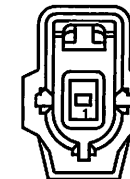
* Gasoline

Pin	Circuit	Circuit function
1	904 (LG/RD)	Generator/Battery indicator, control
2	*4 (WH/BK)	Stator circuit
3	35 (OG/LB)	Voltage supplied at all times (overload protected)

C103 (BK)

12B637

Oil pressure sensor



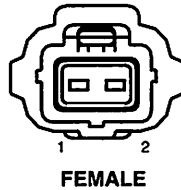
FEMALE

* Diesel

Pin	Circuit	Circuit function
1	31 (WH/RD)	Engine oil pressure indicator, control
	*1308 (BN/OG)	Engine oil pressure indicator, control

C104 (GY)
12B637

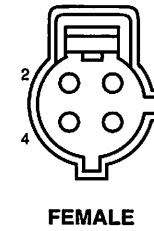
Engine Oil Temperature (EOT) sensor



Pin	Circuit	Circuit function
1	359 (GY/RD)	Signal return
2	354 (LG/RD)	signal from Powertrain Control Module (PCM) (12A650)

C106 (BK)
12B637

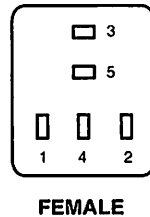
Injection pressure sensor



Pin	Circuit	Circuit function
1	1163 (BN)	NGV module, signal return
2	1160 (BN/WH)	NGV module fuel tank pressure sensor V ref
3	141 (RD/PK)	Injector pressure sensor
4	-	not used

C105
12A581

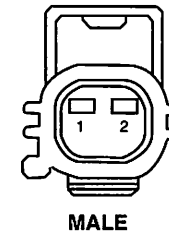
A/C clutch relay



Pin	Circuit	Circuit function
1	361 (RD)	Voltage supplied in Start and Run (overload protected)
2	331 (PK/YE)	Relay, control
3	932 (GY/WH)	A/C clutch
4	-	not used
5	321 (GY/WH)	Relay switched output

C108 (BK)
12B637/9D930

Knock sensor (12A699)

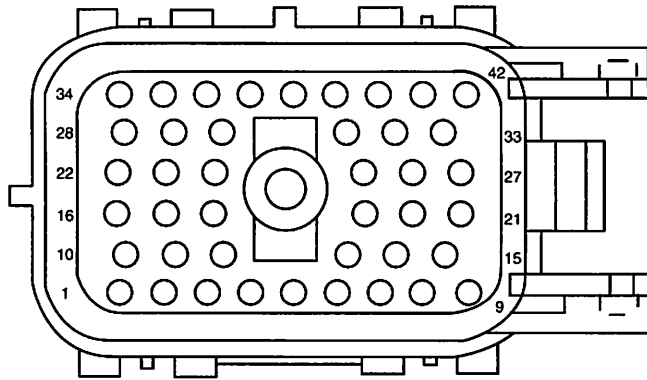


Pin	Circuit	Circuit function
1	1273 (YE)	Knock sensor (12A699) -
2	310 (YE/RD)	Knock sensor (12A699) +

C110 (BK)

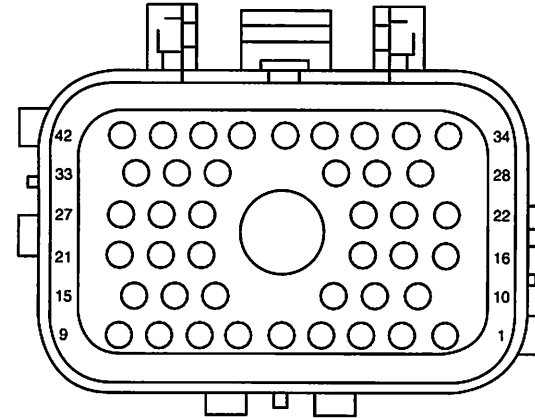
* Natural Gas Vehicle (NGV)
 ** Modified vehicle
 *** Except Natural Gas Vehicle (NGV)
 + With Carbon Management System (CMS)
 ++ Gasoline

14406



MALE


12A581



FEMALE

(1)	43 (DB)	(15)	**14 (BN)	(29)	-
(2)	64 (DG)	(16)	523 (RD/PK)	(30)	-
(3)	52 (YE)	(17)	521 (TN/OG)	(31)	-
(4)	++91 (VT/WH)	(18)	516 (YE/BK)	(32)	-
(5)	++791 (RD/PK)	(19)	**57 (BK)	(33)	-
(6)	++821 (BN/OG)	(20)	**140 (BK/PK)	(34)	963 (BK/LG)
(7)	962 (BN/WH)	(21)	***29 (YE/WH)	(35)	*1160 (BN/WH)
(8)	++928 (LB/RD)	(22)	519 (LG/BK)	(36)	*1161 (DG/OG)
(9)	49 (OG)	(23)	522 (TN/BK)	(37)	*1162 (LG/RD)
(10)	+361 (RD)	(24)	514 (YE/RD)	(38)	*1163 (BN)
(11)	359 (GY/RD)	(25)	+389 (WH/BK)	(39)	-
(12)	++351 (BN/WH)	(26)	+392 (RD/LG)	(40)	-
(13)	**5 (OG/LB)	(27)	651 (BK/YE)	(41)	-
(14)	**9 (LG/OG)	(28)	359 (GY/RD)	(42)	866 (WH)


C111 (BK)
12B637
 Coil On Plug
 (COP) 1 (12029)



FEMALE

Pin	Circuit	Circuit function
1	16 (RD/LG)	Voltage supplied in Start and Run (overload protected)
2	1024 (LG/WH)	Coil On Plug (COP) 1 (12029), control


C114 (BK)
12B637
 Coil On Plug (COP)
 4 (12029)



FEMALE

Pin	Circuit	Circuit function
1	16 (RD/LG)	Voltage supplied in Start and Run (overload protected)
2	1030 (DG/VT)	Coil On Plug (COP) 4 (12029), control


C112 (BK)
12B637
 Coil On Plug
 (COP) 2 (12029)



FEMALE

Pin	Circuit	Circuit function
1	16 (RD/LG)	Voltage supplied in Start and Run (overload protected)
2	1026 (PK/WH)	Coil On Plug (COP) 2 (12029), control


C115 (BK)
12B637
 Coil On Plug
 (COP) 5 (12029)



FEMALE

Pin	Circuit	Circuit function
1	16 (RD/LG)	Voltage supplied in Start and Run (overload protected)
2	1021 (LG/YE)	Coil On Plug (COP) 5 (12029), control


C113 (BK)
12B637
 Coil On Plug
 (COP) 3 (12029)



FEMALE

Pin	Circuit	Circuit function
1	16 (RD/LG)	Voltage supplied in Start and Run (overload protected)
2	1028 (WH/PK)	Coil On Plug (COP) 3 (12029), control

C116 (BK)
12B637
 Coil On Plug
 (COP) 6 (12029)



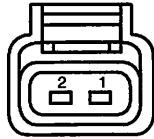
FEMALE

Pin	Circuit	Circuit function
1	16 (RD/LG)	Voltage supplied in Start and Run (overload protected)
2	1025 (OG/YE)	Coil On Plug (COP) 6 (12029), control

C117 (BK)

12B637

Coil On Plug
(COP) 7 (12029)



FEMALE

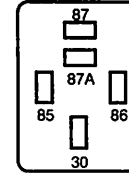
Pin	Circuit	Circuit function
1	16 (RD/LG)	Voltage supplied in Start and Run (overload protected)
2	1027 (PK/LB)	Coil On Plug (COP) 7 (12029), control

C119

Stripped chassis

12A581

Trailer tow relay,
right turn



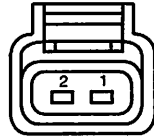
FEMALE

Pin	Circuit	Circuit function
30	212 (DB)	Voltage supplied at all times (overload protected)
85	5 (OG/LB)	Relay, control
86	57 (BK)	Ground
87	64 (DG)	Trailer lamp socket, right turn signal
87A	-	not used

C118 (BK)

12B637

Coil On Plug
(COP) 8 (12029)



FEMALE

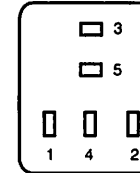
Pin	Circuit	Circuit function
1	16 (RD/LG)	Voltage supplied in Start and Run (overload protected)
2	1029 (WH/RD)	Coil On Plug (COP) 8 (12029), control

C120

Except stripped chassis

12A581

Trailer tow relay,
left turn



FEMALE

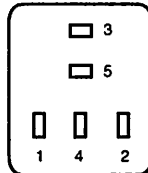
Pin	Circuit	Circuit function
1	57 (BK)	Ground
2	9 (LG/OG)	Relay, control
3	212 (DB)	Voltage supplied at all times (overload protected)
4	-	not used
5	52 (YE)	Trailer lamp socket, Left turn signal

C119

Except stripped chassis

12A581

Trailer tow relay,
right turn



FEMALE

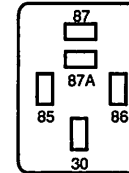
Pin	Circuit	Circuit function
1		Ground
2	5 (OG/LB)	Relay, control
3	212 (DB)	Voltage supplied at all times (overload protected)
4	-	not used
5	64 (DG)	Trailer lamp socket, Right turn signal

C120

Stripped chassis

12A581

Trailer tow relay,
left turn



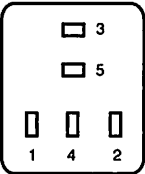
FEMALE

Pin	Circuit	Circuit function
30	212 (DB)	Voltage supplied at all times (overload protected)
85	9 (LG/OG)	Relay, control
86	57 (BK)	Ground
87	52 (YE)	Trailer lamp socket, left turn signal
87A	-	not used

C121

12A581

Reversing lamp relay



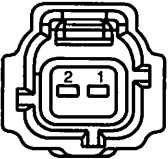
FEMALE

Pin	Circuit	Circuit function
1	1362 (DG/OG)	Relay, control
2	361 (RD)	Hot with PCM power relay energized
3	296 (WH/VT)	Voltage supplied at all times (overload protected)
4	-	not used
5	140 (BK/PK)	Reversing lamp relay, output

C123 (BK)

12B637/9D930/12A581

EVAP canister purge valve



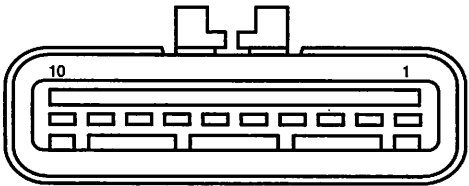
FEMALE

Pin	Circuit	Circuit function
1	361 (RD)	Voltage supplied in Start and Run (overload protected)
2	191 (LG/BK)	Powertrain Control Module (PCM) (12A650), EVAP canister purge valve

C122 (BK)

12A581

Speed control servo (9C735)



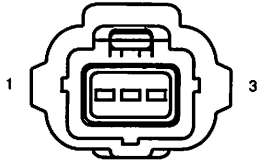
FEMALE

Pin	Circuit	Circuit function
1	-	not used
2	-	not used
3	679 (GY/BK)	Vehicle Speed Sensor (VSS) +
4	569 (DG)	Brake pedal position switch (13480), to stoplamps
5	151 (LB/BK)	Speed control switch, input
6	848 (DG/OG)	Speed control switch, Ground
7	294 (WH/LB)	Voltage in Run (overload protected)
8	-	not used
9	307 (BK/YE)	Deactivator switch, input
10	1205 (BK)	Ground

C124 (BK)

12A581

Brake fluid level switch (2L414)



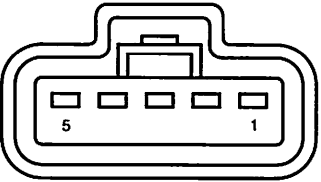
FEMALE

Pin	Circuit	Circuit function
1	57 (BK)	Ground
2	531 (DG/YE)	Brake fluid level switch (2L414), signal
3	512 (TN/LG)	Brake indicator, control

C125 (BK)

12A581

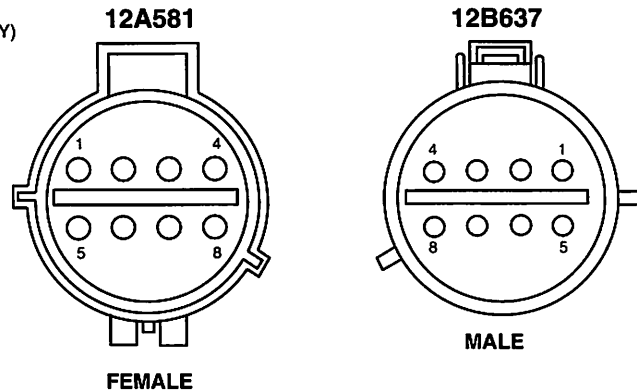
Windshield wiper motor (17508)



FEMALE

Pin	Circuit	Circuit function
1	58 (WH)	Wiper Control Module (WCM), to, Windshield wiper motor (17508)
2	56 (DB/OG)	Wiper Control Module (WCM), to, Windshield wiper motor (17508)
3	61 (YE/RD)	Wiper motor relay, high/low, input
4	65 (DG)	Voltage in Run or Accessory (overload protected)
5	28 (BK/PK)	Wiper Control Module (WCM), to, Windshield wiper motor (17508)

C127 (GY)

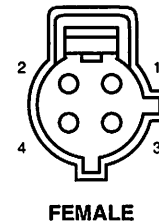


- | | | | |
|---------------|------------------|------------------|-----------------|
| (1) - | (5) 1183 (WH/YE) | (1) - | (5) 1185 (YE) |
| (2) - | (6) 440 (TN/LG) | (2) - | (6) 904 (LG/RD) |
| (3) - | (7) - | (3) - | (7) - |
| (4) 1185 (YE) | (8) - | (4) 1183 (WH/YE) | (8) - |

C130 (BK)

12A581

A/C clutch cycling pressure switch (19D594)

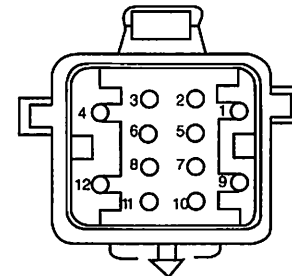
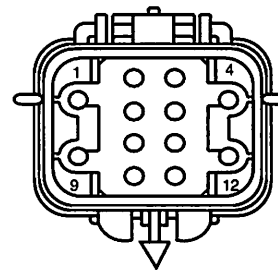


Pin	Circuit	Circuit function
1	348 (VT)	A/C demand signal
2	-	not used
3	-	not used
4	441 (RD/YE)	A/C pressure switch, to A/C cycling switch

C131 (BK)

12A581

12B637

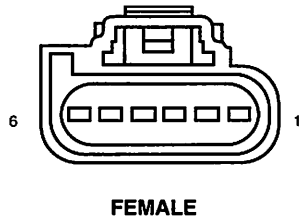


- | | |
|------------------|-------------------|
| (1) 574 (BK/PK) | (1) 574 (BK/PK) |
| (2) 321 (GY/WH) | (2) 321 (GY/WH) |
| (3) 1362 (DG/OG) | (3) 1362 (DG/OG) |
| (4) - | (4) - |
| (5) 911 (WH/LG) | (5) 911 (WH/LG) |
| (6) 361 (RD) | (6) 814 (WH/BK) |
| (7) 57 (BK) | (7) 57 (BK) |
| (8) 190 (WH/OG) | (8) 3098 (RD/YE) |
| (9) 16 (RD/LG) | (9) 1717 (VT/OG) |
| (10) 361 (RD) | (10) 361 (RD) |
| (11) 31 (WH/RD) | (11) 1308 (BN/OG) |
| (12) 876 (DG/LG) | (12) 876 (DG/LG) |

C128 (BK)

12A581
12A690

Mass Air Flow (MAF) sensor (12B579)

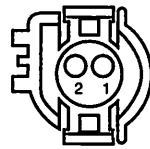


Pin	Circuit	Circuit function
1	743 (GY)	Intake Air Temperature (IAT) sensor (12A697), input
2	359 (GY/RD)	Signal return
3	967 (LB/RD)	Mass Air Flow (MAF) sensor (12B579), output
4	968 (TN/LB)	Mass Air Flow (MAF) sensor (12B579), signal, return
5	570 (BK/WH)	Ground
6	361 (RD)	Voltage supplied in Start and Run (overload protected)

C132 (BK)

14290

Ambient air temperature sensor (19E702)



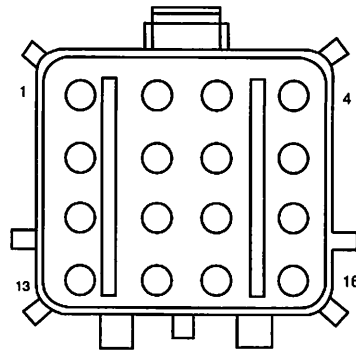
FEMALE

Pin	Circuit	Circuit function
1	767 (LB/OG)	Ambient air temperature sensor (19E702), feed
2	470 (PK/BK)	Sensor signal return (reference/ground)

C133 (BK)

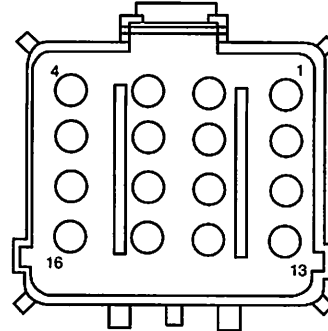
* 6.8L
 ** Except 5.4L Natural Gas Vehicle (NGV) and stripped chassis

12A581



MALE

12B637



FEMALE

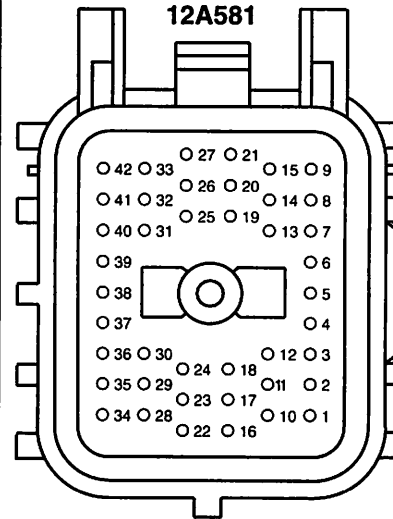
- (1) 1025 (OG/YE)
- (2) 1021 (LG/YE)
- (3) 1030 (DG/VT)
- (4) 1029 (WH/RD)
- (5) *1141 (YE/BK)
- (6) *1142 (WH/RD)
- (7) 359 (GY/RD)
- (8) 359 (GY/RD)

- (9) 1144 (YE/BK)
- (10) 1145 (LB/BK)
- (11) 1146 (LG/RD)
- (12) **191 (LG/BK)
- (13) 74 (GY/LB)
- (14) 94 (RD/BK)
- (15) 387 (RD/WH)
- (16) 388 (YE/LB)

C134 (BK)

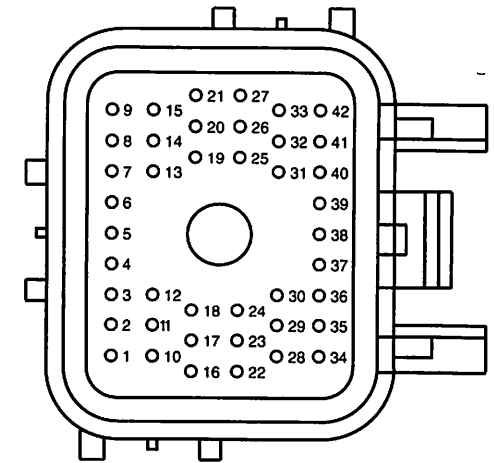
* 5.4L Natural Gas Vehicle (NGV)
 ** 4.6L
 *** 6.8L
 ◇ Stripped chassis
 ◇◇ Except late production 6.8L

12A581



MALE

12B637



FEMALE

- (1) 57 (BK)
- (2) 389 (WH/BK)
- *866 (WH)
- (3) ***1100 (GY/BK)
- (4) ***1101 (GY/RD)
- (5) 1102 (YE/LG)
- (6) 296 (WH/VT)
- *1160 (BR/WH)
- (7) 555 (TN)
- (8) 556 (WH)
- (9) 361 (RD)
- (10) 140 (BK/PK)
- (11) 355 (GY/WH)
- (12) 351 (BN/WH)
- (13) 557 (BN/YE)
- (14) 558 (BN/LB)
- (15) 559 (TN/BK)

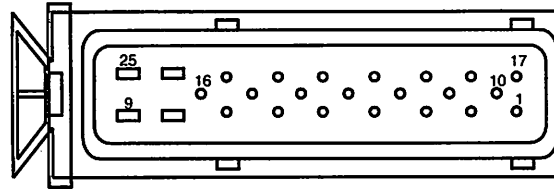
- (16) 392 (RD/LG)
- (17) *1164 (LB)
- **367 (BN)
- (18) 359 (GY/RD)
- (19) 560 (LG/OG)
- (20) 561 (TN/RD)
- (21) 562 (LB)
- (22) 350 (GY)
- (23) 795 (DG)
- (24) 1163 (BR)
- (25) 31 (WH/RD)
- (26) 1024 (LG/WH)
- (27) 390 (TN/YE)
- (28) 349 (DB)
- (29) 359 (GY/RD)
- ◇ 796 (LB)

- (30) 352 (BN/LG)
- (31) 141 (RD/PK)
- (32) 1028 (WH/PK)
- (33) 1027 (PK/LB)
- (34) 16 (RD/LG)
- (35) 570 (BK/WH)
- (36) ◇◇ 310 (YE/RD)
- *1163 (BN)
- (37) ◇◇ 1273 (YE)
- *296 (WH/VT)
- (38) 360 (BN/PK)
- (39) 264 (WH/LB)
- (40) 393 (VT/LG)
- *1164 (LB)
- (41) 1026 (PK/WH)
- (42) *866 (WH)

C135 (BK)

12A581

ABS control module (2C219)



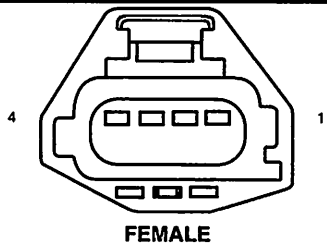
FEMALE

Pin	Circuit	Circuit function
1	70 (LB/WH)	ISO Bus
2	569 (DG)	Brake pedal position switch
3	-	not used
4	522 (TN/BK)	Wheel speed sensor, left front (2C205) -
5	516 (YE/BK)	Wheel speed sensor, right front (2C204) -
6	519 (LG/BK)	Rear axle speed sensor (4B409) -
7	-	not used
8	530 (LG/YE)	Chassis Ground
9	532 (OG/YE)	Voltage supplied at all times (overload protected)
10	512 (TN/LG)	Brake indicator, control
11	-	not used
12	521 (TN/OG)	Wheel speed sensor, left front (2C205) +

Pin	Circuit	Circuit function
13	514 (YE/RD)	Wheel speed sensor, right front (2C204) +
14	523 (RD/PK)	Rear axle speed sensor (4B409) +
15	603 (DG)	Anti-lock brake indicator, control
16	601 (LB/PK)	Voltage in Run (overload protected)
17	-	not used
18	-	not used
19	-	not used
20	-	not used
21	-	not used
22	-	not used
23	-	not used
24	530 (LG/YE)	Chassis Ground
25	532 (OG/YE)	Voltage supplied at all times (overload protected)

C136 (BK)
12B637

Injector pressure sensor

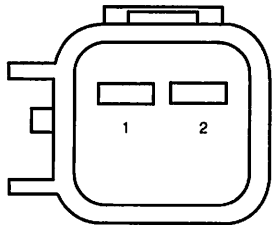


FEMALE

Pin	Circuit	Circuit function
1	141 (RD/PK)	Fuel rail pressure transducer
2	351 (BN/WH)	Power to engine sensors
3	-	Not used
4	359 (GY/RD)	Sensor signal return

C137 (BK)
12A581

Windshield washer pump motor (17618)

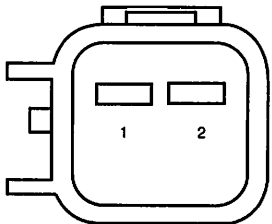


MALE

Pin	Circuit	Circuit function
1	941 (BK/WH)	Windshield washer pump motor (17618), feed
2	57 (BK)	Ground

C138 (BK)
12B637

Heated positive crankcase ventilation (PCV) element



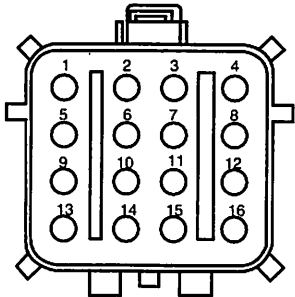
MALE

Pin	Circuit	Circuit function
1	16 (RD/LG)	Voltage supplied in Start and Run (overload protected)
2	570 (BK/WH)	Ground

C139 (GY)

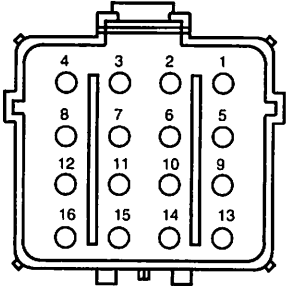
* Early production 5.4L

12B637



MALE

12A581

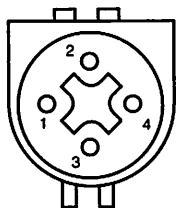


FEMALE

- (1) 136 (DB/YE)
- (2) 199 (LB/YE)
- (3) 237 (OG/YE)
- (4) 315 (VT/OG)
- (5) 480 (VT/YE)
- (6) 923 (OG/BK)
- (7) 924 (BN/OG)
- (8) 925 (WH/YE)
- (9) 970 (DG/WH)
- (10) 359 (GY/RD)
- (11) 359 (GY/RD)
- (12) 359 (GY/RD)
- (13) *359 (GY/RD)
- (14) 347 (BK/YE)
- (15) 1093 (TN/RD)
- (16) 32 (RD/LB)

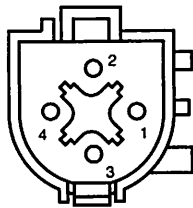
C140 (BK)

12A581



MALE

14A411



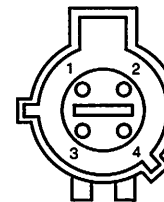
FEMALE

- (1) 49 (OG)
- (2) 868 (GY/RD)
- (3) 867 (DB)
- (4) 1507 (WH/RD)

C142 (BU)

7C078/9K499

Heated Oxygen Sensor (HO2S) #12 (9G444)



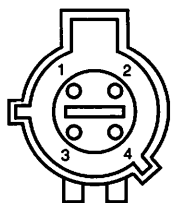
FEMALE

Pin	Circuit	Circuit function
1	389 (WH/BK)	Heated Oxygen Sensor (HO2S) #12 (9G444), heater
2	361 (RD)	Voltage supplied in Start and Run (overload protected)
3	392 (RD/LG)	Heated Oxygen Sensor (HO2S) #12 (9G444), input
4	359 (GY/RD)	Signal return

C141 (BU)

7C078

Heated Oxygen Sensor (HO2S) #22 (9G444)



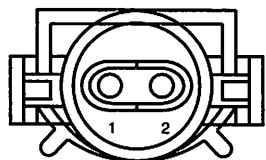
FEMALE

Pin	Circuit	Circuit function
1	390 (TN/YE)	Heated Oxygen Sensor (HO2S) #22 (9G444), heater
2	361 (RD)	Voltage supplied in Start and Run (overload protected)
3	393 (VT/LG)	Heated Oxygen Sensor (HO2S) #22 (9G444), input
4	359 (GY/RD)	Signal return

C143 (BK)

7C078

Turbine Shaft Speed (TSS) sensor

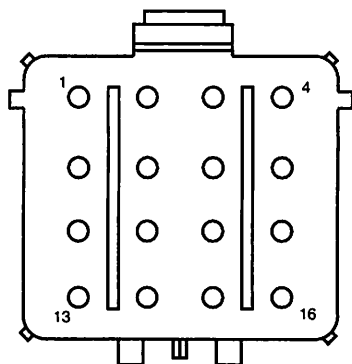


FEMALE

Pin	Circuit	Circuit function
1	970 (DG/WH)	Turbine Shaft Speed (TSS) sensor
2	359 (GY/RD)	Signal return

C144 (GY)

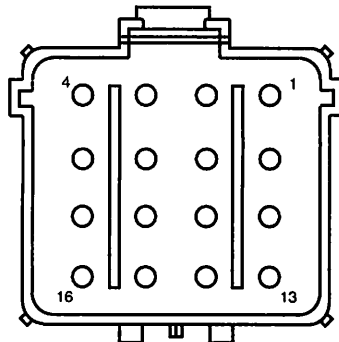
14290



MALE

- (1) 161 (DG/OG)
- (2) 12 (LG/BK)
- (3) 295 (LB/PK)
- (4) 618 (VT/LG)
- (5) 470 (PK/BK)
- (6) 160 (DB/WH)
- (7) 13 (RD/BK)
- (8) 1205 (BK)

12A581



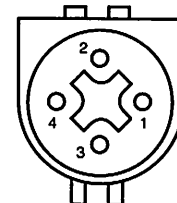
FEMALE

- (9) 6 (YE/LG)
- (10) 3 (LG/WH)
- (11) 617 (PK/OG)
- (12) 767 (LB/OG)
- (13) 932 (GY/WH)
- (14) -
- (15) 2 (WH/LB)
- (16) 14 (BN)

C145 (WH)

* With auxiliary battery jumper

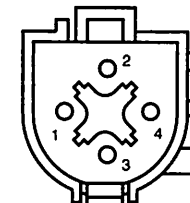
14A346



MALE

- (1) 296 (WH/VT)
- (2) 326 (WH/VT)
- *37 (YE)
- (3) 3258 (RD/YE)
- *37 (YE)
- (4)

12A581

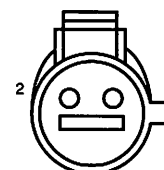


FEMALE

- (1) 296 (WH/VT)
- (2) 326 (WH/VT)
- (3) 3258 (RD/YE)
- (4)

C146 (BK)

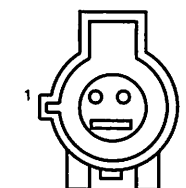
14305



MALE

- (1) 35 (OG/LB)
- (2) 904 (LG/RD)

12A581

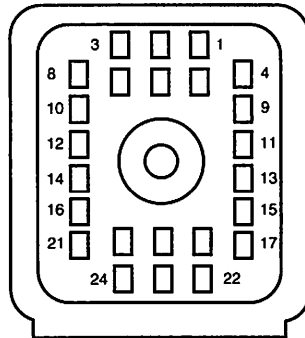


FEMALE

C147 (BK)

7C078

TorqShift transmission solenoid



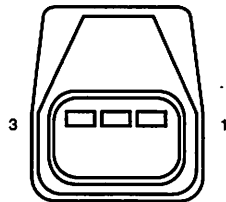
FEMALE

Pin	Circuit	Circuit function
1	125 (DB/WH)	Shift Solenoid Pressure Control E (SSPC-E) (7J136)
2	-	not used
3	315 (VT/OG)	Shift Solenoid Pressure Control B (SSPC-B) (7J136)
4	236 (BK/LG)	Shift Solenoid Pressure Control D (SSPC-D) (7J136)
5	971 (PK/BK)	Shift Solenoid Pressure Control C (SSPC-C) (7J136)
6	-	not used
7	391 (RD/YE)	Shift solenoid VPWR
8	924 (BN/OG)	Torque Converter Clutch (TCC) solenoid (7J136)
9	-	not used
10	480 (VT/YE)	Pressure Control (PC-A) solenoid (7G383)
11	-	not used
12	237 (OG/YE)	Shift Solenoid Pressure Control A (SSPC-A) (7J136)
13	-	not used
14	-	not used

Pin	Circuit	Circuit function
15	199 (LB/YE)	Transmission Range Sensor Assembly (TR-P) (7H557), signal
16	-	not used
17	1930 (TN/LG)	Transmission Range Sensor Assembly (TR-P) (7H557), Ground
18	923 (OG/BK)	Transmission Fluid Temperature (TFT) sensor (7H141)
19	-	not used
20	391 (RD/YE)	Shift solenoid VPWR
21	1929 (GY/YE)	Reference voltage, Transmission Range Sensor Assembly (TR-P) (7H557)
22	1931 (BN/PK)	Signal return, Transmission Fluid Temperature (TFT) sensor (7H141)
23	-	not used
24	391 (RD/YE)	Shift solenoid VPWR

C148 (BK)
7C078

Output shaft speed (oss) sensor (7H103)

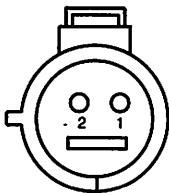


FEMALE

Pin	Circuit	Circuit function
1	1929 (GY/YE)	Signal return
2	136 (DB/YE)	OSS signal
3	1930 (TN/LG)	Reference voltage

C160 (BK)
2B516

Wheel speed sensor, right front (2C204)

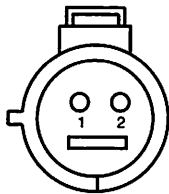


MALE

Pin	Circuit	Circuit function
1	514 (YE/RD)	Wheel speed sensor, right front (2C204) +
2	516 (YE/BK)	Wheel speed sensor, right front (2C204) -

C150 (BK)
2B516

Wheel speed sensor, left front (2C205)



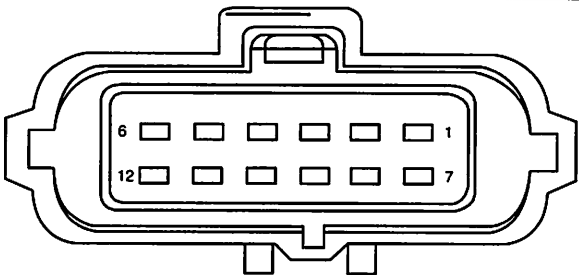
MALE

all others

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

C167 (BK)
7C078

Digital Transmission Range (DTR) sensor (7F293)

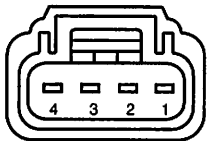


FEMALE

Pin	Circuit	Circuit function
1	-	not used
2	359 (GY/RD)	Signal return
3	199 (LB/YE)	Digital Transmission Range (DTR) sensor, TR3A
4	1144 (YE/BK)	Digital Transmission Range (DTR) sensor, TR1
5	1145 (LB/BK)	Digital Transmission Range (DTR) sensor, TR2
6	1146 (LG/RD)	Digital Transmission Range (DTR) sensor, TR4
7	-	not used
8	-	not used
9	296 (WH/VT)	Voltage in Run (overload protected)
10	32 (RD/LB)	Power, Hot in Start with Park or Neutral
11	140 (BK/PK)	Voltage supplied in reverse
12	1093 (TN/RD)	Voltage supplied in Start (overload protected)

C152 (BK)
7C078

Speed sensor assembly

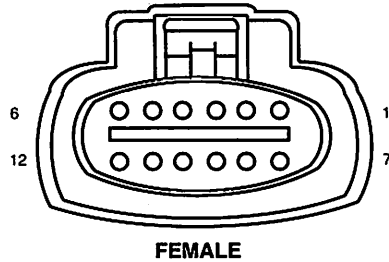


FEMALE

Pin	Circuit	Circuit function
1	1929 (GY/YE)	Reference voltage
2	1930 (TN/LG)	Signal return
3	970 (DG/WH)	Turbine Shaft Speed (TSS) sensor signal
4	134 (GY/OG)	Intermediate Shaft Speed (ISS) sensor (7M183) signal

C168 (GY)
7C078

4R100 transmission

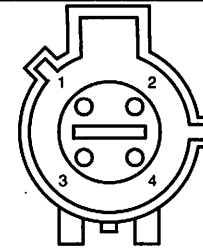


FEMALE

Pin	Circuit	Circuit function
1	923 (OG/BK)	Transmission Fluid Temperature (TFT) sensor, input
2	359 (GY/RD)	Signal return
3	-	not used
4	-	not used
5	925 (WH/YE)	Electronic Pressure Control (EPC) solenoid, control
6	361 (RD)	Voltage supplied in Start and Run (overload protected)
7	-	not used
8	924 (BN/OG)	Powertrain Control Module (PCM) (12A650), to transmission coast clutch solenoid
9	480 (VT/YE)	Torque Converter Clutch (TCC) solenoid
10	237 (OG/YE)	Shift solenoid A
11	315 (VT/OG)	Shift solenoid B
12	361 (RD)	Voltage supplied in Start and Run (overload protected)

C172 (GN)
12B637/9D930/7C078

Heated Oxygen Sensor (HO2S) #21 (9F472)



FEMALE

Pin	Circuit	Circuit function
1	388 (YE/LB)	Heated Oxygen Sensor (HO2S) #21 (9F472), heater
2	361 (RD)	Voltage supplied in Start and Run (overload protected)
3	94 (RD/BK)	Heated Oxygen Sensor (HO2S) #21 (9F472), input
4	359 (GY/RD)	Signal return

C174 (GY)
9D930/12B637

Ignition transformer capacitor 1 (18801)

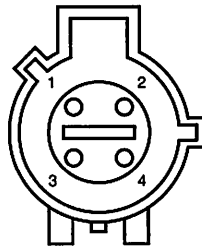


FEMALE

Pin	Circuit	Circuit function
1	16 (RD/LG)	Voltage supplied in Start and Run (overload protected)

C171 (GN)
7C078/12B637/9D930

Heated Oxygen Sensor (HO2S) #11 (9F472)

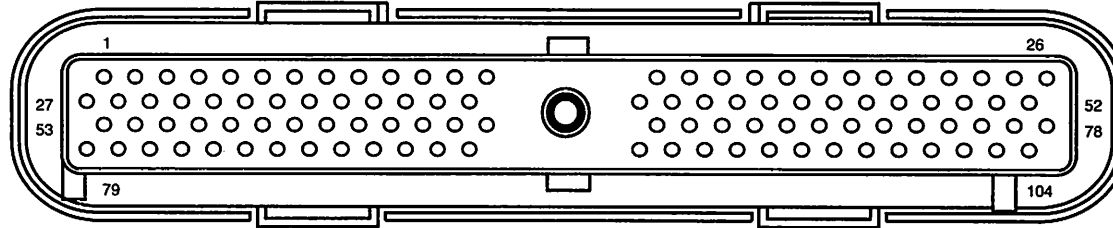


FEMALE

Pin	Circuit	Circuit function
1	387 (RD/WH)	Heated Oxygen Sensor (HO2S) #11 (9F472), heater
2	361 (RD)	Voltage supplied in Start and Run (overload protected)
3	74 (GY/LB)	Heated Oxygen Sensor (HO2S) #11 (9F472), input
4	359 (GY/RD)	Signal return

C175 (GY)
12A581

Powertrain Control Module (PCM) (12A650)



FEMALE

- * 6.8L
- ** Except 6.8L
- *** Natural Gas Vehicle (NGV)
- **** Except Natural Gas Vehicle (NGV)
- φ Except Natural Gas Vehicle (NGV) or 4.6L without stripped chassis
- φφφ Except 6.8L or all stripped chassis
- φφφφ All gasoline except 6.8L
- ◇ All others
- ◇◇ 5.4L with stripped chassis
- ◇◇◇ Except late production 6.8L and except Natural Gas Vehicles (NGV)

Pin	Circuit	Circuit function
1	1025 (OG/YE)	Coil On Plug (COP) 6 (12029), control
2	-	not used
3	570 (BK/WH)	Ground
4	φ 828 (VT/LB)	Voltage supplied at all times (overload protected)
5	-	not used
6	237 (OG/YE)	Shift solenoid A
7	-	not used
8	-	not used
9	-	not used
10	-	not used
11	315 (VT/OG)	Shift solenoid B
12	911 (WH/LG)	Transmission Control Indicator Lamp (TCIL)
13	107 (VT)	Module programming signal
14	****781 (OG/LB)	to 4L switch
15	915 (PK/LB)	SCP Bus -
16	914 (TN/OG)	SCP Bus +
17	-	not used
18	-	not used
19	-	not used
20	924 (BN/OG)	Powertrain Control Module (PCM) (12A650), Coasting clutch solenoid
21	349 (DB)	Crankshaft position sensor (6C315) +
22	350 (GY)	Crankshaft position sensor (6C315) -

Pin	Circuit	Circuit function
23	* 570 (BK/WH)	Ground
24	570 (BK/WH)	Ground
25	875 (BK/LB)	Ground
26	1024 (LG/WH)	Coil On Plug (COP) 1 (12029), control
27	◇1021 (LG/YE)	Coil On Plug (COP) 5 (12029), control
	* 1142 (WH/RD)	Coil On Plug (COP) 10, control
28	-	not used
29	224 (TN/WH)	PCM, to transmission overdrive cancel switch
30	-	not used
31	-	not used
32	◇◇◇ 1273 (YE)	Knock sensor (12A699)
33	-	not used
34	1144 (YE/BK)	Digital Transmission Range (DTR) sensor, TR1
35	****392 (RD/LG)	Heated Oxygen Sensor (HO2S) #12 (9G444), input
36	968 (TN/LB)	Mass Air Flow (MAF) sensor (12B579), signal, return
37	923 (OG/BK)	Transmission Fluid Temperature (TFT) sensor, input
38	-	not used
39	743 (GY)	Intake Air Temperature (IAT) sensor (12A697), input
40	928 (LB/RD)	Fuel pump relay, control
41	347 (BK/YE)	A/C pressure switch, signal
42	*1101 (GY/RD)	Fuel injector 10 (9F593), control

Pin	Circuit	Circuit function
43	-	not used
44	-	not used
45	-	not used
46	◇◇367 (BN)	Intake Manifold Runner Control (IMRC) module
	*679 (GY/BK)	Vehicle Speed Sensor (VSS) +
47	ΦΦΦΦ360 (BN/PK)	EGR Vacuum Regulator (EVR), control
48	648 (WH/PK)	Tachometer, signal
49	1145 (LB/BK)	Digital Transmission Range (DTR) sensor, TR2
50	1146 (LG/RD)	Digital Transmission Range (DTR) sensor, TR4
51	570 (BK/WH)	Ground
52	**1028 (WH/PK)	Coil On Plug (COP) 3 (12029), control
	*1021 (LG/YE)	Coil On Plug (COP) 5 (12029), control
53	**1030 (DG/VT)	Coil On Plug (COP) 4 (12029), control
	*1027 (PK/LB)	Coil On Plug (COP) 7 (12029), control
54	480 (VT/YE)	Torque Converter Clutch (TCC) solenoid
55	3049 (BK/LG)	Cluster power
56	****191 (LG/BK)	Powertrain Control Module (PCM) (12A650), EVAP canister purge valve
57	◇◇◇310 (YE/RD)	Knock sensor (12A699) -
58	-	not used
59	970 (DG/WH)	Turbine Shaft Speed (TSS) sensor
60	74 (GY/LB)	Heated Oxygen Sensor (HO2S) #11 (9F472), input
61	****393 (VT/LG)	Heated Oxygen Sensor (HO2S) #22 (9G444), input
62	****791 (RD/PK)	Fuel tank pressure transducer sensor (9C968)
63	****141 (RD/PK)	Injector pressure sensor
64	199 (LB/YE)	Digital Transmission Range (DTR) sensor, TR3A
65	ΦΦΦΦ352 (BN/LG)	Differential Pressure Feedback EGR (DPFE) sensor, input
66	1102 (YE/LG)	Cylinder-head temperature sensor (6G004), to, Powertrain Control Module (PCM) (12A650)

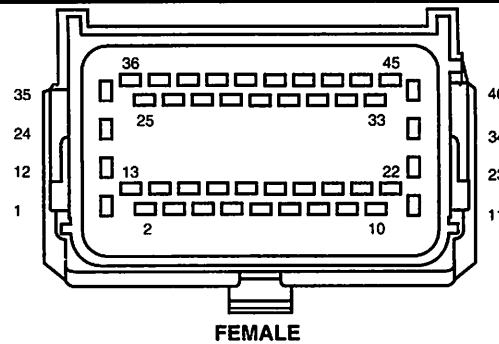
Pin	Circuit	Circuit function
67	****91 (VT/WH)	Canister vent
68	ΦΦΦ 679 (GY/BK)	Vehicle Speed Sensor (VSS) +
	*1100 (GY/BK)	Fuel injector 9 (9F593), control
69	-	not used
70	-	not used
71	361 (RD)	Voltage supplied in Start and Run (overload protected)
72	****561 (TN/RD)	Fuel injector 7, control
	***1171 (WH)	
73	****559 (TN/BK)	Fuel injector 5, control
	***1169 (WH/LB)	
74	****557 (BN/YE)	Fuel injector 3, control
	***1167 (WH/BK)	
75	****555 (TN)	Fuel injector 1, control
	***1165 (WH/RD)	
76	570 (BK/WH)	Ground
77	570 (BK/WH)	Ground
78	**1027 (PK/LB)	Coil On Plug (COP) 7 (12029), control
	*1026 (PK/WH)	Coil On Plug (COP) 2 (12029), control
79	1029 (WH/RD)	Coil On Plug (COP) 8 (12029), control
80	821 (BN/OG)	Injector Driver Module (IDM) power relay, control
81	925 (WH/YE)	Electronic Pressure Control (EPC) solenoid, control
82	*1141 (YE/BK)	Coil On Plug (COP) 4 (12029), control
83	264 (WH/LB)	Idle Air Control (IAC) valve (9F715), control
84	136 (DB/YE)	Powertrain Control Module (PCM) (12A650) - Output Shaft Speed (OSS) sensor (7H103)
85	795 (DG)	Camshaft position sensor (6B288), to, Powertrain Control Module (PCM) (12A650)
86	-	not used
87	94 (RD/BK)	Heated Oxygen Sensor (HO2S) #21 (9F472), input

Pin	Circuit	Circuit function
88	967 (LB/RD)	Mass Air Flow (MAF) sensor (12B579), output
89	355 (GY/WH)	Throttle Position Sensor (TPS) (9B989), input
90	351 (BN/WH)	Reference voltage
91	359 (GY/RD)	Signal return
92	511 (LG)	Brake pedal position switch (13480), to stoplamps
93	387 (RD/WH)	Heated Oxygen Sensor (HO2S) #11 (9F472), heater
94	388 (YE/LB)	Heated Oxygen Sensor (HO2S) #21 (9F472), heater
95	****389 (WH/BK)	Heated Oxygen Sensor (HO2S) #12 (9G444), heater
96	****390 (TN/YE)	Heated Oxygen Sensor (HO2S) #22 (9G444), heater
97	361 (RD)	Voltage supplied in Start and Run (overload protected)
98	****562 (LB)	Fuel injector 8, control
	***1172 (YE)	
99	****560 (LG/OG)	Fuel injector 6, control
	***1170 (YE/BK)	
100	****558 (BN/LB)	Fuel injector 4, control
	***1168 (YE/BK)	
101	****556 (WH)	Fuel injector 2, control
	***1166 (YE/RD)	
102	*1030 (DG/VT)	Coil On Plug (COP) 4 (12029), control
103	570 (BK/WH)	Ground
104	**1026 (PK/WH)	Coil On Plug (COP) 2 (12029), control
	*1028 (WH/PK)	Coil On Plug (COP) 3 (12029), control

C176a (BK)

12A581

Powertrain
Control Module (PCM)
(12A650)



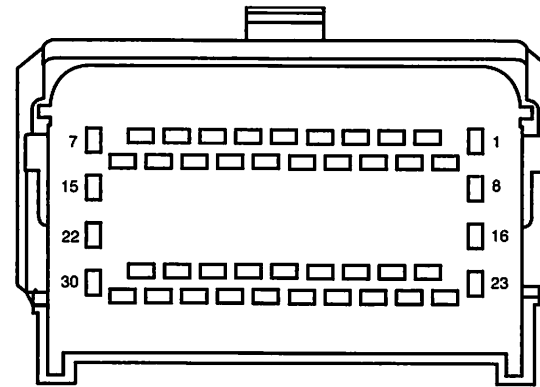
FEMALE

Pin	Circuit	Circuit function
1	648 (WH/PK)	not used
2	331 (PK/YE)	A/C clutch relay, control
3	-	not used
4	1419 (LG/YE)	Instrument cluster module: start interrupt relay control
5	926 (LB/OG)	Fuel pump relay, control
6	-	not used
7	406 (BN/WH)	not used
8	347 (BK/YE)	A/C pressure switch, to, A/C clutch solenoid
9	-	not used
10	875 (BK/LB)	Ground
11	570 (BK/WH)	Ground
12	828 (VT/LB)	not used
13	1827 (WH/LG)	Data link connector - Can H
14	1828 (PK/LG)	Data link connector - Can L
15	1280 (GY/RD)	A/C pressure switch to control relay
16	198 (DG/OG)	Water in fuel input
17	162 (LG/RD)	Park brake switch input
18	569 (DG)	Stoplamp (brake on/off) switch to HI mount stoplamp
19	866 (WH)	Inertia switch to module
20	3011 (BK/OG)	APS2 return
21	968 (TN/LB)	Mass air flow return
22	679 (GY/BK)	Vehicle Speed Sensor (VSS) +
23	570 (BK/WH)	Ground
24	848 (DG/OG)	Speed control switch, Ground

Pin	Circuit	Circuit function
25	3015 (WH/RD)	APS3 signal
26	1283 (TN/YE)	PCM - accelerator pedal sensor
27	-	not used
28	307 (BK/YE)	Brake pressure switch to speed control module
29	3010 (TN)	Traction assist stepper motor - A common
30	904 (LG/RD)	Generator/Battery indicator, control
31	151 (LB/BK)	Speed control switch, input
32	914 (TN/OG)	SCP Bus +
33	359 (GY/RD)	Signal return
34	361 (RD)	Voltage supplied in Start and Run (overload protected)
35	-	not used
36	224 (TN/WH)	PCM, to transmission overdrive cancel switch
37	3012 (WH)	APS2 signal
38	356 (DB/LG)	Barometric pressure sensor feed
39	107 (VT)	Module programming signal
40	3049 (BK/LG)	Cluster power
41	358 (LG/BK)	Manifold Absolute Pressure (MAP) sensor, to, Powertrain Control Module (PCM) (12A650)
42	967 (LB/RD)	Mass Air Flow (MAF) sensor (12B579), output
43	743 (GY)	Intake Air Temperature (IAT) sensor (12A697), input
44	915 (PK/LB)	SCP Bus -
45	351 (BN/WH)	Reference voltage
46	361 (RD)	Voltage supplied in Start and Run (overload protected)

C176b (BK)
7C078

Powertrain
Control Module (PCM)
(12A650)



FEMALE

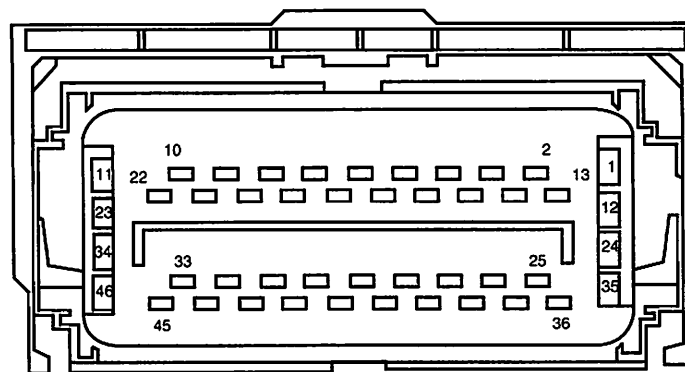
Pin	Circuit	Circuit function
1	1929 (GY/YE)	Reference voltage
2	480 (VT/YE)	Pressure Control (PC-A) solenoid (7G383)
3	1362 (DG/OG)	Reversing Lamp Control
4	-	not used
5	911 (WH/LG)	Transmission Control Indicator Lamp (TCIL), control
6	-	not used
7	391 (RD/YE)	Pressure Control (PC) solenoid, Power
8	-	not used
9	237 (OG/YE)	Shift Solenoid Pressure Control A (SSPC-A) (7J136), control
10	315 (VT/OG)	Shift Solenoid Pressure Control B (SSPC-B) (7J136), control
11	971 (PK/BK)	Shift Solenoid Pressure Control C (SSPC-C) (7J136), control
12	236 (BK/LG)	Shift Solenoid Pressure Control D (SSPC-D) (7J136), control
13	125 (DB/WH)	Shift Solenoid Pressure Control E (SSPC-E) (7J136), control
14	924 (BN/OG)	Torque Converter Clutch (TCC) solenoid (7J136), control

Pin	Circuit	Circuit function
15	-	not used
16	-	not used
17	-	not used
18	-	not used
19	-	not used
20	-	not used
21	-	not used
22	1930 (TN/LG)	Transmission Range Sensor Assembly (TR-P) (7H557), Ground
23	-	not used
24	-	not used
25	199 (LB/YE)	Transmission Range Sensor Assembly (TR-P) (7H557), signal
26	923 (OG/BK)	Transmission Fluid Temperature (TFT) sensor (7H141) signal
27	134 (GY/OG)	Intermediate Shaft Speed (ISS) sensor (7M101), signal
28	136 (DB/YE)	Output Shaft Speed (OSS) sensor (7H103), signal
29	970 (DG/WH)	Turbine Shaft Speed (TSS) sensor (7M101), signal
30	1931 (BN/PK)	Signal return

C176c (BK)

12B637

Powertrain
Control Module (PCM)
(12A650)



FEMALE

Pin	Circuit	Circuit function
1	1183 (WH/YE)	Charge (including: ammeter/voltmeter), monitor
2	552 (YE/RD)	Injection Pressure Regulator (IPR), control
3	1086 (VT/OG)	Glow Plug System, signal
4	1185 (YE)	Charge (including: ammeter/voltmeter), monitor, Generator, secondary
5	-	not used
6	229 (RD/OG)	Electronic fan clutch, signal
7	-	not used
8	-	not used
9	-	not used
10	41 (BK/LB)	Variable geometric turbo actuator, control
11	43 (DB)	Variable geometric turbo actuator, common
12	355 (GY/WH)	Electronic Throttle Control (ETC) motor +/-
13	-	not used
14	228 (DB)	Electronic fan clutch, control
15	-	not used
16	-	not used
17	1277 (WH/LG)	Glow plug control module (GPCM), signal
18	-	not used
19	54 (LG/YE)	Fuel Injector Control Module (FICM), fuel delivery command

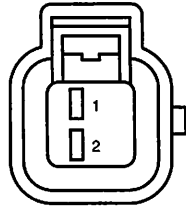
Pin	Circuit	Circuit function
20	56 (DB/OG)	Fuel Injector Control Module (FICM), cylinder identification
21	-	not used
22	360 (BN/PK)	Engine cooling fan, Ground
23	33 (WH/PK)	EGR valve actuator, control
24	357 (YE/WH)	Electronic Throttle Control (ETC) motor +/-
25	359 (GY/RD)	Signal return
26	70 (LB/WH)	CAN Bus 2L
27	553 (VT/LB)	Exhaust Back Pressure (EBP) sensor, signal
28	878 (PK/YE)	Fuel Injector Control Module (FICM), communication
29	812 (DB/LG)	Injection Control Pressure (ICP) sensor, signal
30	349 (DB)	Crankshaft position sensor (6C315) +
31	50 (RD)	Camshaft position sensor (6B288) +
32	3076 (YE/WH)	Coolant temperature sensor, signal
33	34 (LB/OG)	EGR valve actuator, position sense
34	-	not used
35	-	not used
36	351 (BN/WH)	Reference voltage
37	69 (RD/LG)	CAN Bus 2H
38	73 (OG/LB)	EGR throttle position sensor, monitor

39	-	not used
40	-	not used
41	350 (GY)	Crankshaft position sensor (6C315) -
42	48 (BK)	Ground, Drain wire
43	49 (OG)	Camshaft position sensor (6B288) -
44	354 (LG/RD)	Engine Oil Temperature (EOT) sensor, signal
45	42 (RD/WH)	Air Charge Temperature (ACT) sensor, signal
46	352 (BN/LG)	Electronic fan clutch, Reference voltage

C177 (BK)

14290

Center air bag sensor



FEMALE

Pin	Circuit	Circuit function
1	617 (PK/OG)	Air bag crash sensor
2	618 (VT/LG)	Air bag center sensor, to, Electronic Crash Sensor (ECS) module

C182 (GY)

12B637

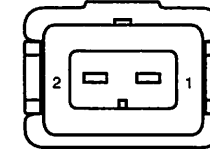
Fuel injector 2 (9F593)

4.6L/5.4L Gasoline

Natural Gas Vehicle (NGV)



FEMALE



FEMALE

Pin	Circuit	Circuit function
1	556 (WH)	Fuel injector 2, control
2	361 (RD)	Voltage supplied in Start and Run (overload protected)

C180 (BK)

12B637

Camshaft position sensor (6B288)



FEMALE

Pin	Circuit	Circuit function
1	359 (GY/RD)	Camshaft position sensor (6B288), signal, return
2	795 (DG)	Camshaft position sensor (6B288), to, Powertrain Control Module (PCM) (12A650)

C183 (GY)

12B637

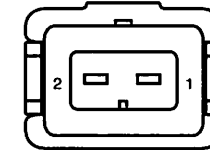
Fuel injector 3 (9F593)

4.6L/5.4L Gasoline

Natural Gas Vehicle (NGV)



FEMALE



FEMALE

Pin	Circuit	Circuit function
1	557 (BN/YE)	Fuel injector 3, control
2	361 (RD)	Voltage supplied in Start and Run (overload protected)

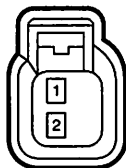
C181 (GY)

12B637

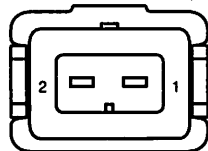
Fuel injector 1 (9F593)

4.6L/5.4L Gasoline

Natural Gas Vehicle (NGV)



FEMALE



FEMALE

Pin	Circuit	Circuit function
1	555 (TN)	Fuel injector 1, control
2	361 (RD)	Voltage supplied in Start and Run (overload protected)

C184 (GY)

12B637

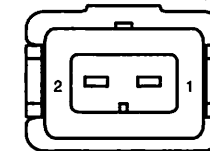
Fuel injector 4 (9F593)

4.6L/5.4L Gasoline

Natural Gas Vehicle (NGV)



FEMALE



FEMALE

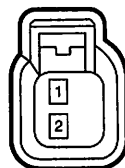
Pin	Circuit	Circuit function
1	558 (BN/LB)	Fuel injector 4, control
2	361 (RD)	Voltage supplied in Start and Run (overload protected)

C185 (GY)
12B637

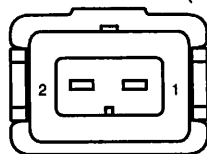
4.6L/5.4L Gasoline

Natural Gas Vehicle (NGV)

Fuel injector 5 (9F593)



FEMALE



FEMALE

Pin	Circuit	Circuit function
1	559 (TN/BK)	Fuel injector 4, control
2	361 (RD)	Voltage supplied in Start and Run (overload protected)

C188 (GY)
12B637

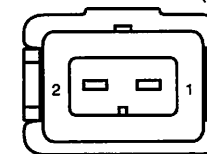
4.6L/5.4L Gasoline

Natural Gas Vehicle (NGV)

Fuel injector 8 (9F593)



FEMALE



FEMALE

Pin	Circuit	Circuit function
1	562 (LB)	Fuel injector 8, control
2	361 (RD)	Voltage supplied in Start and Run (overload protected)

C186 (GY)
12B637

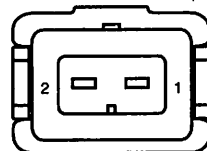
4.6L/5.4L Gasoline

Natural Gas Vehicle (NGV)

Fuel injector 6 (9F593)



FEMALE

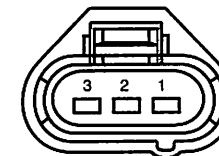


FEMALE

Pin	Circuit	Circuit function
1	560 (LG/OG)	Fuel injector 6 (9F593)
2	361 (RD)	Voltage supplied in Start and Run (overload protected)

C189 (BK)
12B637/9D930

Throttle Position Sensor (TPS) (9B989)



FEMALE

Pin	Circuit	Circuit function
1	351 (BN/WH)	Reference voltage
2	355 (GY/WH)	Throttle Position Sensor (TPS) (9B989), input
3	359 (GY/RD)	Signal return

C187 (GY)
12B637

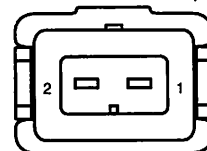
4.6L/5.4L Gasoline

Natural Gas Vehicle (NGV)

Fuel injector 7 (9F593)



FEMALE

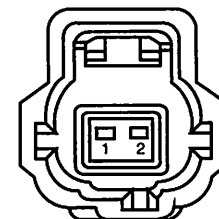


FEMALE

Pin	Circuit	Circuit function
1	561 (TN/RD)	Fuel injector 7, control
2	361 (RD)	Voltage supplied in Start and Run (overload protected)

C191 (BK)
12B637

Intake Manifold Tuning Valve (IMTV)

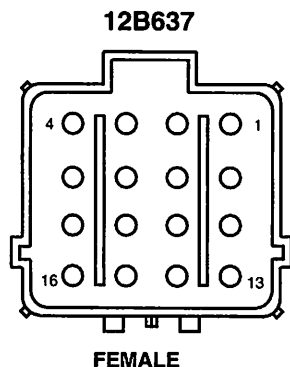
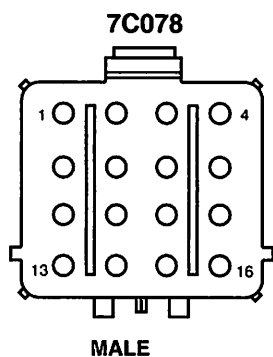


FEMALE

Pin	Circuit	Circuit function
1	361 (RD)	Voltage supplied in Start and Run (overload protected)
2	367 (BN)	Intake Manifold Tuning Valve (IMTV)

C192 (BK)

*5.4L Natural Gas Vehicle (NGV) E-250, E-350



- (1) 199 (LB/YE)
- (2) 237 (OG/YE)
- (3) 315 (VT/OG)
- (4) 480 (VT/YE)
- (5) 923 (OG/BK)
- (6) 924 (BN/OG)
- (7) 925 (WH/YE)
- (8) *94 (RD/BK)
- (9) 1144 (YE/BK)
- (10) 1145 (LB/BK)
- (11) 1146 (LG/RD)
- (12) *359 (GY/RD)
- (13) *387 (RD/WH)
- (14) *359 (GY/RD)
- (15) *388 (YE/LB)
- (16) 32 (RD/LB)

C194 (GY)

12B637

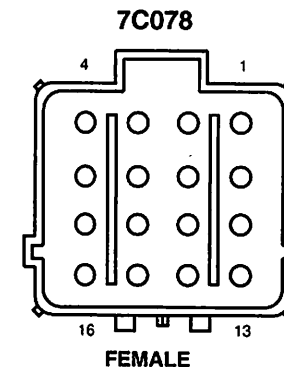
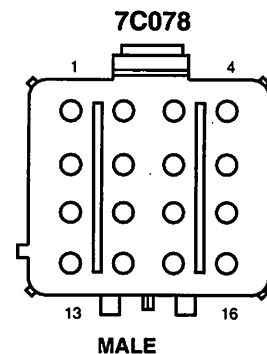
Ignition transformer capacitor 2 (18801)



FEMALE

Pin	Circuit	Circuit function
1	16 (RD/LG)	Voltage supplied in Start and Run (overload protected)

C195 (BK)

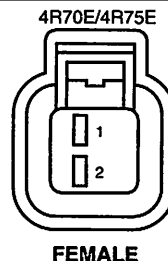
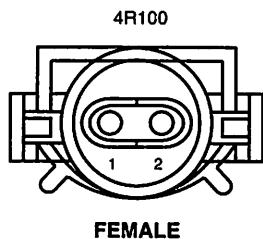


- (1) 391 (RD/YE)
- (2) 237 (OG/YE)
- (3) 1930 (TN/LG)
- (4) 971 (PK/BK)
- (5) 1931 (BN/PK)
- (6) 136 (DB/YE)
- (7) 924 (BN/OG)
- (8) 1929 (GY/YE)
- (9) 199 (LB/YE)
- (10) 923 (OG/BK)
- (11) 134 (GY/OG)
- (12) 970 (DG/WH)
- (13) 125 (DB/WH)
- (14) 480 (VT/YE)
- (15) 236 (BK/LG)
- (16) 315 (VT/OG)

C193 (BK)

7C078

Output Shaft Speed (OSS) sensor (7H103)



Pin	Circuit	Circuit function
1	136 (DB/YE)	Powertrain Control Module (PCM) (12A650) - Output Shaft Speed (OSS) sensor (7H103)
2	359 (GY/RD)	Signal return

* Stripped chassis

C197a

14300

Starter motor (11002)

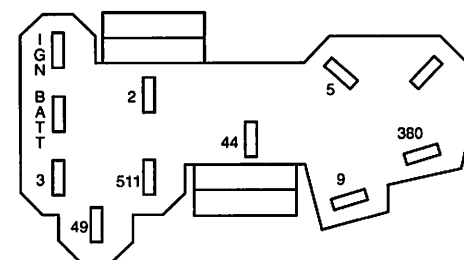


Pin	Circuit	Circuit function
1	2037 (RD)	Battery cable +

C202a (GY)

14401

Multifunction switch



FEMALE

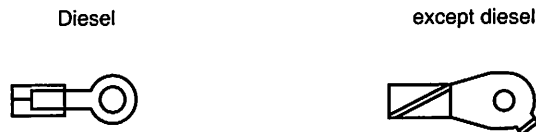
Pin	Circuit	Circuit function
BATT	10 (LG/RD)	Voltage supplied at all times (overload protected)
2	2 (WH/LB)	Turn lamps, feed, right front
3	3 (LG/WH)	Turn lamps, feed, left front
5	5 (OG/LB)	Turn lamps, feed, right rear
9	9 (LG/OG)	Turn lamps, feed, left rear
44	44 (LB)	Turn signal flasher, to turn signal switch
49	385 (WH/RD)	Turn signal flasher, to turn signal switch
IGN	8 (OG/YE)	Voltage in Run (overload protected)
379	-	not used
380	-	not used
511	511 (LG) *810 (RD/LG)	Brake pedal position switch (13480), input

C197b (BK)

14300

Starter motor (11002)

*Diesel

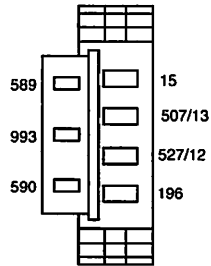


Pin	Circuit	Circuit function
1	*113 (YE/LB)	Battery cable +
	2037 (RD)	Battery cable +

C202b (GY)

14401

Multifunction switch

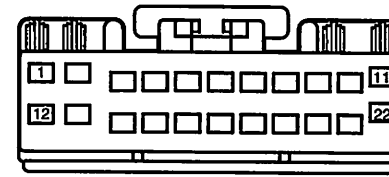


FEMALE

C203a (GY)

14A200

Vehicle security module (VSM) (15K602)



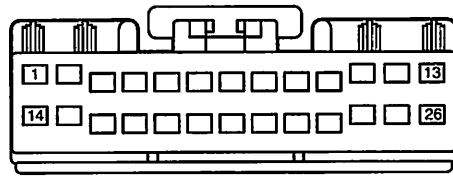
FEMALE

Pin	Circuit	Circuit function
589	589 (OG)	Wiper, (front wiper), intermittent wiper circuit
15	15 (RD/YE)	Power, Hot with Headlamps on
507/13	13 (RD/BK)	Power, Hot with Low Beams on
993	993 (BN/WH)	Wiper switch circuit, (front wiper), Intermittent wiper circuit
527/12	632 (GY/OG)	Power, Hot with High Beams on
590	590 (DB/WH)	Wiper/washer switch, intermittent wiper circuit
196	195 (TN/WH)	Voltage supplied at all times (overload protected)

Pin	Circuit	Circuit function
1	195 (TN/WH)	Taillamp switch feed
2	14 (BN)	Headlamp switch to tail lamps and side marker lamps
3	-	not used
4	-	not used
5	628 (WH)	Sliding door wire
6	-	not used
7	-	not used
8	-	not used
9	120 (PK/LG)	Door lock switch (unlock)
10	343 (DB/LG)	Warning lamp to anti-theft module
11	118 (PK/OG)	Door lock motor (unlock)
12	517 (BK/WH)	Circuit breaker (load terminal) to control switch ("batt" terminal)
13	1205 (BK)	General ground (type 4 ground)
14	-	not used
15	-	not used
16	-	not used
17	119 (PK/YE)	Door lock switch (lock)
18	-	not used
19	159 (RD/PK)	Door jamb switch to buzzer
20	-	not used
21	-	not used
22	117 (PK/BK)	Door lock motor (lock)

C203b (GY)
14A200

Vehicle security module (VSM) (15K602)

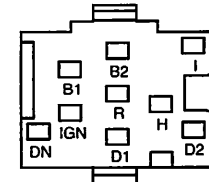


FEMALE

Pin	Circuit	Circuit function
1	163 (RD/OG)	Keyless door lock output (driver) from module
2	-	not used
3	70 (LB/WH)	ISO communication bus
4	-	not used
5	-	not used
6	-	not used
7	-	not used
8	-	not used
9	-	not used
10	1 (DB)	Horn switch control
11	1034 (BK/WH)	Dome lamp switch to module
12	-	not used
13	-	not used
14	57 (BK)	Ground
15	-	not used
16	-	not used
17	-	not used
18	-	not used
19	-	not used
20	-	not used
21	-	not used
22	-	not used
23	-	not used
24	-	not used
25	640 (RD/YE)	Warning lamps feed
26	-	not used

C205 (WT)
14401

Main light switch (11654)

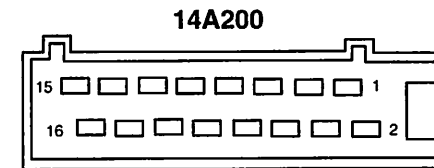


FEMALE

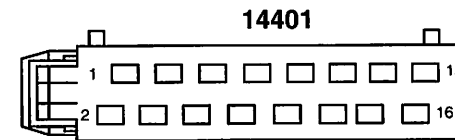
*Stripped chassis

Pin	Circuit	Circuit function
I	1045 (DB/WH)	Instrument illumination, feed
B1	196 (DB/OG)	Headlamp flash to pass switch feed
B2	195 (TN/WH)	Voltage supplied at all times (overload protected)
D1	402 (OG/LG)	Interior lamp relay to dome lamp switch
	*54 (LG/YE)	Interior lamp relay to dome lamp switch
D2	938 (BK/LG)	logic ground
	*53 (BK/LB)	logic ground
DN	-	not used
H	15 (RD/YE)	Power, hot with headlamps on
IGN	-	not used
R	14 (BN)	Power, Exterior lamps

C210
14A200



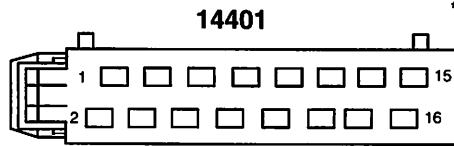
MALE (BK)



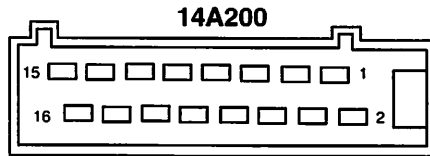
FEMALE (GY)

- | | | |
|-----------------|-------------------|-------------------|
| (1) 159 (RD/PK) | (7) 614 (GY/OG) | (13) 385 (WH/RD) |
| (2) 436 (RD/LG) | (8) 615 (GY/WH) | (14) 54 (LG/YE) |
| (3) 437 (YE/LG) | (9) 607 (LB/OG) | (15) 1109 (OG/BK) |
| (4) 438 (RD/WH) | (10) 1083 (LB/PK) | (16) 1034 (BK/WH) |
| (5) 19 (LB/RD) | (11) 53 (BK/LB) | |
| (6) 616 (PK/BK) | (12) 608 (BK/YE) | |

C211 (BK)



FEMALE



MALE

* With Rear Seat Entertainment (RSE) system

- | | | |
|------------------|-----------------|------------------|
| (1) 1000 (RD/BK) | (6) 8 (OG/YE) | (11) 801 (TN/YE) |
| (2) 1044 (WH/YE) | (7) 85 (BN/LB) | (12) 803 (BN/PK) |
| (3) 1045 (DB/WH) | (8) 802 (OR/RD) | (13) 804 (OG/LG) |
| (4) 800 (GY/LB) | *825 (TN/LG) | (14) 813 (LB/WH) |
| *827 (TN/WH) | (9) 489 (PK/BK) | (15) 805 (WH/LG) |
| (5) 640 (RD/YE) | (10) 628 (WH) | (16) 811 (DG/OG) |

C213 (BK)

14401



MALE

(1) 810 (RD/LG)

14401



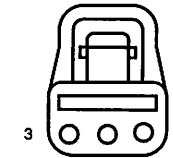
FEMALE

(1) 511 (LG)

C218a (BK)

14401

Air bag sliding contact (14A664)



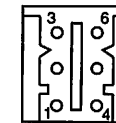
FEMALE

Pin	Circuit	Circuit function
1	615 (GY/WH)	Driver air bag, return
2	-	not used
3	614 (GY/OG)	Driver air bag, feed, monitor

C218b (BN)

14401

Air bag sliding contact (14A664)

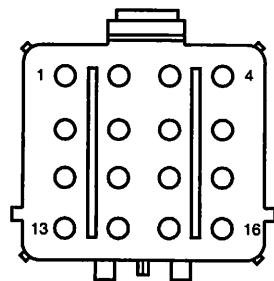


FEMALE

Pin	Circuit	Circuit function
1	1 (DB)	Horn relay, control
2	848 (DG/OG)	Speed control switch, Ground
3	158 (BK/PK)	Key warning switch (11A127), input
4	151 (LB/BK)	Speed control switch, input
5	19 (LB/RD)	Instrument illumination, feed
6	57 (BK)	Ground

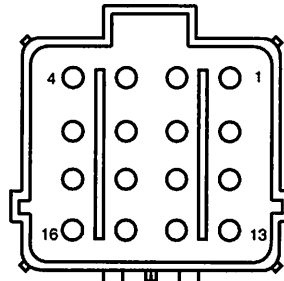
C212 (BK)

14401



MALE

14A200



FEMALE

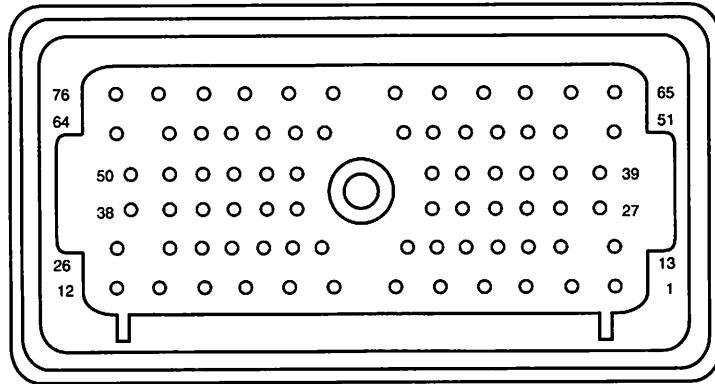
- | | | | |
|------------------|------------------|------------------|-------------------|
| (1) 1559 (RD) | (9) 694 (BK/LG) | (1) 1559 (RD) | (9) 694 (BK/LG) |
| (2) 1560 (WH) | (10) 729 (RD/WH) | (2) 1560 (WH) | (10) 729 (RD/WH) |
| (3) 1561 (OG) | (11) 137 (YE/BK) | (3) 1561 (OG) | (11) 137 (YE/BK) |
| (4) 1562 (YE) | (12) 127 (BK/LB) | (4) 1562 (YE) | (12) 1420 (YE/LB) |
| (5) 48 (OG/WH) | (13) 343 (DB/LG) | (5) 48 (OG/WH) | (13) 343 (DB/LG) |
| (6) 832 (LB/PK) | (14) 667 (WH/RD) | (6) 832 (LB/PK) | (14) 667 (WH/RD) |
| (7) 833 (TN) | (15) 757 (RD/WH) | (7) 833 (TN) | (15) 757 (RD/WH) |
| (8) 1068 (LG/BK) | (16) 44 (LB) | (8) 1068 (LG/BK) | (16) 44 (LB) |

C219 (BK)

* Stripped chassis

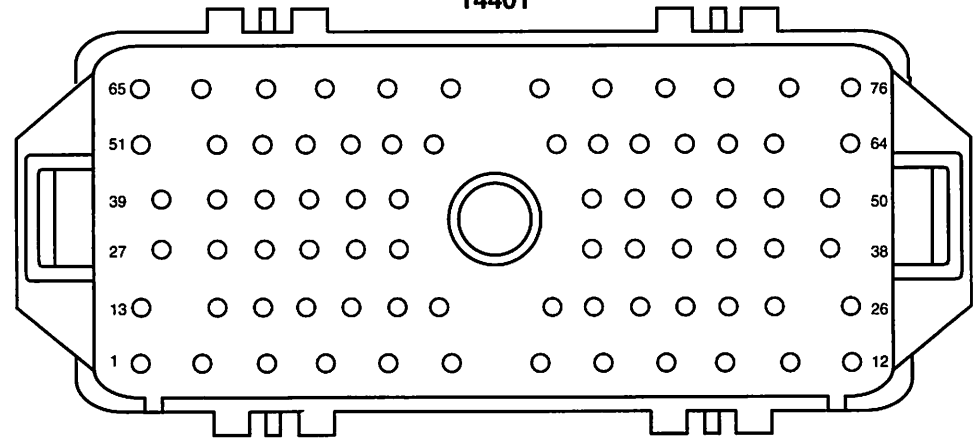
** Diesel

12A581



MALE

14401



FEMALE

- (1) 1507 (WH/RD)
- (2) 260 (RD/OG)
*196 (DB/OG)
- (3) 868 (GY/RD)
*160 (DB/WH)
- (4) 261 (OG/BK)
*12 (LG/BK)
- (5) 867 (DB)
*16 (OG/LB)
- (6) 269 (LB/OG)
*13 (RD/BK)
- (7) 1049 (BN/PK)
- (8) 65 (DG)
- (9) 28 (BK/PK)
- (10) 61 (YE/RD)
*511 (LG)
- (11) 58 (WH)
- (12) 56 (DB/OG)
*1052 (TN/BK)

- (13) 49 (OG)
- (14) 295 (LB/PK)
*107 (VT)
- (15) -
- (16) 569 (DG)
*43 (DB)
- (17) 151 (LB/BK)
*603 (DG)
- (18) 848 (DG/OG)
*10 (LG/RD)
- (19) 196 (DB/OG)
*651 (BK/YE)
- (20) 224 (TN/WH)
*3 (LG/WH)
- (21) 911 (WH/LG)
*14 (BN)
- (22) *911 (WH/LG)
- (23) 348 (VT)
*5 (OG/LB)

- (24) 294 (WH/LB)
*601 (LB/PK)
- (25) 1004 (LB/RD)
*2 (WH/LB)
- (26) 195 (TN/WH)
*1050 (LG/VT)
- (27) **162 (LG/RD)
- (28) *640 (RD/YE)
- (29) *569 (DG)
- (30) -
- (31) 29 (YE/WH)
*224 (TN/WH)
- (32) 651 (BK/YE)
*904 (LG/RD)
- (33) *512 (TN/LG)
- (34) -

- (35) *12 (LG/BK)
- (36) 511 (LG)
*531 (DG/YE)
- (37) 531 (DG/YE)
- (38) 512 (TN/LG)
- (39) 5 (OG/LB)
- (40) 9 (LG/OG)
*753 (YE/RD)
- (41) 2 (WH/LB)
*1093 (TN/RD)
- (42) 3 (LG/WH)
- (43) 10 (LG/RD)
- (44) -
- (45) 914 (TN/OG)
*915 (PK/LB)
- (46) 915 (PK/LB)
*348 (VT)
- (47) *296 (WH/VT)

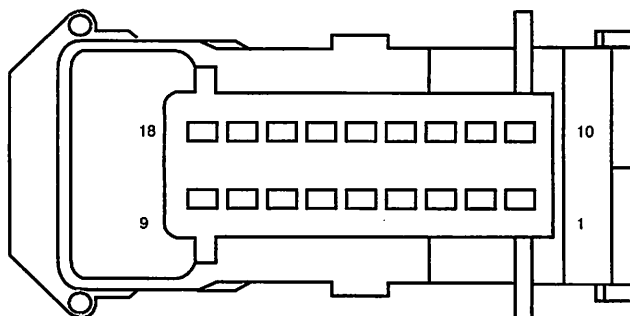
- (48) *31 (WH/RD)
- (49) *29 (YE/WH)
- (50) -
- (51) -
- (52) -
- (53) 1 (DB)
- (54) 31 (WH/RD)
*1 (DB)
- (55) *70 (LB/WH)
- (56) 12 (LG/BK)
*810 (RD/LG)
- (57) 14 (BN)
*161 (DG/OG)
- (58) *570 (BK/WH)
- (59) 904 (LG/RD)
- (60) 603 (DG)
*295 (LB/PK)

- (61) 753 (YE/RD)
*914 (TN/OG)
- (62) *1205 (BK)
- (63) *296 (WH/VT)
- (64) -
- (65) -
- (66) 751 (DB/WH)
*49 (OG)
- (67) 752 (YE/RD)
- (68) -
- (69) 13 (RD/BK)
- (70) -
- (71) 941 (BK/WH)
- (72) -
- (73) 40 (LB/WH)
- (74) *238 (DG/YE)
- (75) *866 (WH)
- (76) 632 (GY/OG)
*1524 (DB)

C220a (BK)

14401

Instrument Cluster



FEMALE

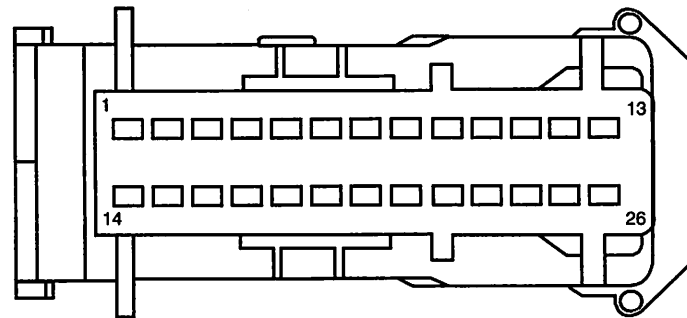
* Stripped Chassis
 ** Except stripped chassis

Pin	Circuit	Circuit function
1	**1005 (VT/OG)	GEM module battery saver output
2	-	not used
3	608 (BK/YE)	Airbag diagnostic lamp driver
4	3 (LG/WH)	LH front turn signal lamp
5	1044 (WH/YE)	Fused run/start feed
6	-	not used
7	14 (BN)	Headlamp switch to taillamps and side marker lamps
8	915 (PK/LB)	Bus (-)
9	914 (TN/OG)	Bus (+)
10	57 (BK)	Ground
11	**402 (OG/LG)	Interior lamp relay to dome lamp switch
12	12 (LG/BK)	Headlamp dimmer switch to high beams
13	31 (WH/RD)	Oil pressure indicator
14	904 (LG/RD)	Ignition switch to alternator ign terminal
15	-	not used
16	651 (BK/YE)	Fuel gauge return
17	29 (YE/WH)	Fuel gage
18	2 (WH/LB)	RH front turn signal lamp

C220b (BK)

14401

Instrument Cluster



FEMALE

* Stripped chassis

** Except stripped chassis

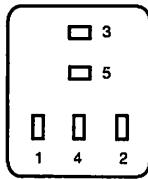
Pin	Circuit	Circuit function
1	729 (RD/WH)	Radio memory
2	295 (LB/PK)	Electronic cluster accessory feed
	*137 (YE/BK)	Radio + antenna switch feed
3	-	not used
4	-	not used
5	-	not used
6	-	not used
7	**1083 (LB/PK)	Air bag/seat belt status tone output
8	-	not used
9	162 (LG/RD)	Parking brake warning lamp to parking brake switch
10	**343 (DB/LG)	Warning lamp to anti-theft module
11	-	not used
12	1004 (LB/RD)	GEM module to delayed accessory relay-output

Pin	Circuit	Circuit function
13	**1008 (LG/OG)	GEM module to interior lamp control relay-output
14	938 (BK/LG)	Logic ground
15	**1034 (BK/WH)	Passengers door ajar switch signal
16	**159 (RD/PK)	Drivers door ajar switch signal
17	**628 (WH)	Sliding door ajar switch signal
18	158 (BK/PK)	Key warning switch
19	531 (DG/YE)	RABS diode/resistor to master cylinder fluid level switch
20	512 (TN/LG)	Brake fluid reservoir switch to module
21	-	not used
22	*784 (LB/BK)	Door ajar
23	-	not used
24	603 (DG)	Failure warning lite
25	85 (BN/LB)	Driver buckle switch input
26	19 (LB/RD)	Instrument panel lamps feed

C221

14401

Interior lamp relay

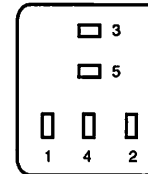


FEMALE

C222

14401

Battery saver relay



FEMALE

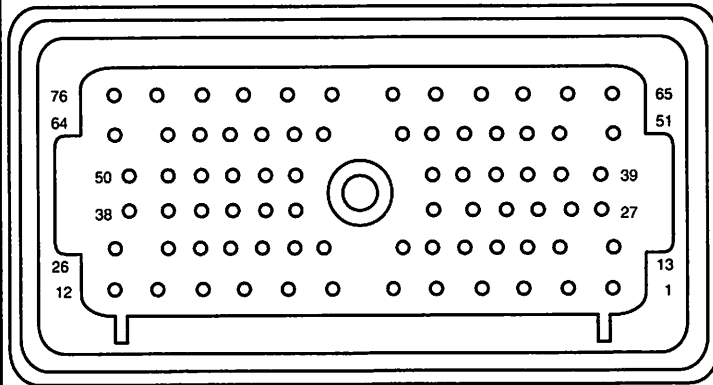
Pin	Circuit	Circuit function
1	1008 (LG/OG)	control relay-output
2	729 (RD/WH)	Voltage supplied at all times (overload protected)
3	54 (LG/YE)	Voltage supplied at all times (overload protected)
4	-	not used
5	53 (BK/LB)	Interior lamp relay, switched power output

Pin	Circuit	Circuit function
1	1005 (VT/OG)	control relay-output
2	729 (RD/WH)	Voltage supplied at all times (overload protected)
3	127 (BK/LB)	Voltage supplied at all times (overload protected)
4	-	not used
5	54 (LG/YE)	Switched power output

C237 (WH)

* E-Traveler

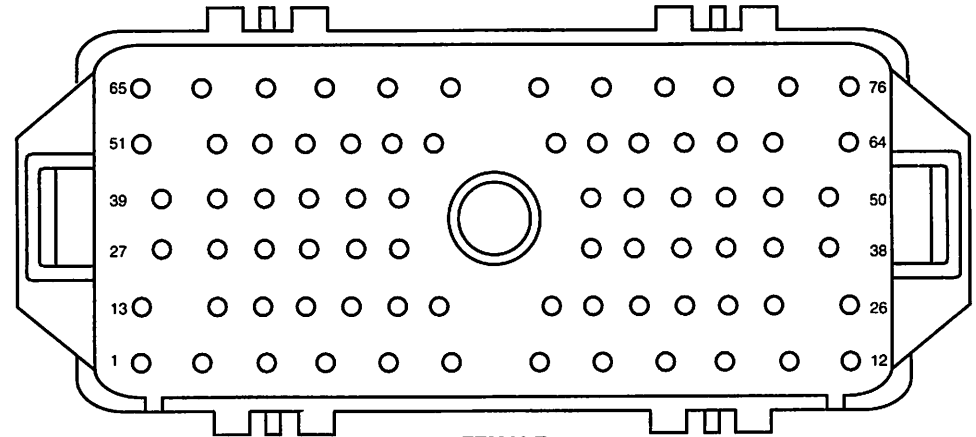
12A581



MALE

- | | | |
|-------------------|-------------------|-------------------|
| (1) 1523 (DG) | (26) 238 (DG/YE) | (51) 118 (PK/OG) |
| (2) 1049 (BN/PK) | (27) 294 (WH/LB) | (52) 753 (YE/RD) |
| (3) 1052 (TN/BK) | (28) 351 (BN/WH) | (53) 16 (RD/LG) |
| (4) 65 (DG) | (29) 356 (DB/LG) | (54) 1205 (BK) |
| (5) 49 (OG) | (30) 359 (GY/RD) | (55) - |
| (6) 40 (LB/WH) | (31) 617 (PK/OG) | (56) 14 (BN) |
| (7) 1507 (WH/RD) | (32) 618 (VT/LG) | (57) 1 (DB) |
| (8) 632 (GY/OG) | (33) 3010 (TN) | (58) 296 (WH/VT) |
| (9) 43 (DB) | (34) 3011 (BK/OG) | (59) 295 (LB/PK) |
| (10) 195 (TN/WH) | (35) 3012 (WH) | (60) 1827 (WH/LG) |
| (11) 50 (RD) | (36) 3015 (WH/RD) | (61) 1828 (PK/LG) |
| (12) 964 (DB/LG) | (37) 1283 (TN/YE) | (62) - |
| (13) 866 (WH) | (38) 351 (BN/WH) | (63) - |
| (14) 569 (DG) | (39) 5 (OG/LB) | (64) - |
| (15) 570 (BK/WH) | (40) *9 (LG/OG) | (65) 754 (LG/WH) |
| (16) 601 (LB/PK) | (41) 70 (LB/WH) | (66) 751 (DB/WH) |
| (17) *679 (GY/BK) | (42) 10 (LG/RD) | (67) 752 (YE/RD) |
| (18) 640 (RD/YE) | (43) 12 (LG/BK) | (68) - |
| (19) 160 (DB/WH) | (44) 1093 (TN/RD) | (69) - |
| (20) 161 (DG/OG) | (45) 914 (TN/OG) | (70) 1524 (DB) |
| (21) 511 (LG) | (46) 915 (PK/LB) | (71) - |
| (22) 729 (RD/WH) | (47) - | (72) 883 (PK/LB) |
| (23) *140 (BK/PK) | (48) - | (73) - |
| (24) *767 (LB/OG) | (49) 107 (VT) | (74) 1050 (LG/VT) |
| (25) 470 (PK/BK) | (50) 359 (GY/RD) | (75) - |
| | | (76) 13 (RD/BK) |

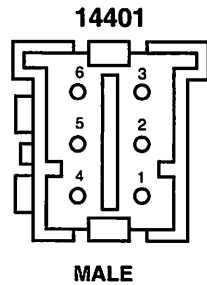
14A200



FEMALE

- | | | |
|-------------------|-------------------|-------------------|
| (1) 1523 (DG) | (26) 238 (DG/YE) | (51) 118 (PK/OG) |
| (2) 1049 (BN/PK) | (27) 294 (WH/LB) | (52) 753 (YE/RD) |
| (3) 1052 (TN/BK) | (28) 351 (BN/WH) | (53) 16 (RD/LG) |
| (4) 65 (DG) | (29) 356 (DB/LG) | (54) 1205 (BK) |
| (5) 49 (OG) | (30) 359 (GY/RD) | (55) - |
| (6) 40 (LB/WH) | (31) 617 (PK/OG) | (56) 14 (BN) |
| (7) 1507 (WH/RD) | (32) 618 (VT/LG) | (57) 1 (DB) |
| (8) 632 (GY/OG) | (33) 3010 (TN) | (58) 296 (WH/VT) |
| (9) 43 (DB) | (34) 3011 (BK/OG) | (59) 295 (LB/PK) |
| (10) 195 (TN/WH) | (35) 3012 (WH) | (60) 3072 (PK/YE) |
| (11) 50 (RD) | (36) 3015 (WH/RD) | (61) 3073 (RD/WH) |
| (12) 964 (DB/LG) | (37) 1283 (TN/YE) | (62) 3072 (PK/YE) |
| (13) 866 (WH) | (38) 351 (BN/WH) | (63) 3073 (RD/WH) |
| (14) 569 (DG) | (39) 5 (OG/LB) | (64) - |
| (15) 570 (BK/WH) | (40) *9 (LG/OG) | (65) 754 (LG/WH) |
| (16) 601 (LB/PK) | (41) 70 (LB/WH) | (66) 751 (DB/WH) |
| (17) *679 (GY/BK) | (42) 10 (LG/RD) | (67) 752 (YE/RD) |
| (18) 640 (RD/YE) | (43) 12 (LG/BK) | (68) - |
| (19) 160 (DB/WH) | (44) 1093 (TN/RD) | (69) - |
| (20) 161 (DG/OG) | (45) 914 (TN/OG) | (70) 1524 (DB) |
| (21) 511 (LG) | (46) 915 (PK/LB) | (71) - |
| (22) 729 (RD/WH) | (47) - | (72) 883 (PK/LB) |
| (23) *140 (BK/PK) | (48) - | (73) - |
| (24) *767 (LB/OG) | (49) 107 (VT) | (74) 1050 (LG/VT) |
| (25) 470 (PK/BK) | (50) 359 (GY/RD) | (75) - |
| | | (76) 13 (RD/BK) |

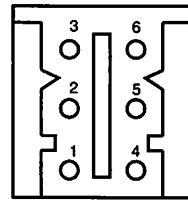
C238 (GY)



MALE

- (1) 1507 (WH/RD)
- (2) 49 (OG)
- (3) 2 (WH/LB)
- (4) 868 (GY/RD)
- (5) 867 (DB)
- (6) 3 (LG/WH)

14A411



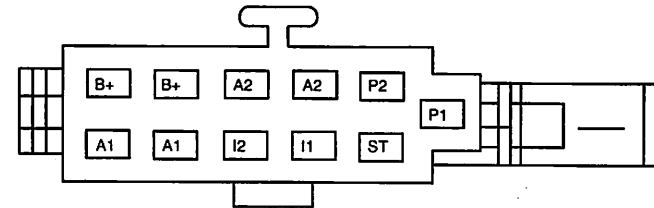
FEMALE

- (1) 1507 (WH/RD)
- (2) 49 (OG)
- (3) 2 (WH/LB)
- (4) 868 (GY/RD)
- (5) 867 (DB)
- (6) 3 (LG/WH)

C250 (GY)

14401/14A200

Ignition switch (11572)



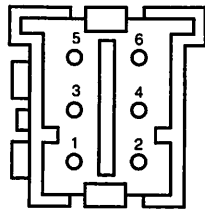
FEMALE

Pin	Circuit	Circuit function
B+	1050 (LG/VT)	Voltage supplied at all times (overload protected)
B+	1050 (LG/VT)	Voltage supplied at all times (overload protected)
A2	687 (GY/YE)	Voltage in Run (overload protected)
A2	1119 (RD)	Voltage in Run (overload protected)
P2	-	not used
P1	-	not used
A1	-	not used
A1	297 (BK/LG)	Voltage in Run or Accessory (overload protected)
I2	1499 (PK/LG)	Voltage supplied in Start and Run (overload protected)
I1	1499 (PK/LG)	Voltage supplied in Start and Run (overload protected)
ST	33 (WH/PK)	Switched power, to starter solenoid

C248 (BN)

Trailer control
electronic
brake control
connector

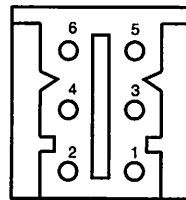
12A581/14A200



MALE

- (1) 57 (BK)
- (2) 43 (DB)
- (3) -
- (4) 511 (LG)
- (5) -
- (6) 50 (RD)

14A348



FEMALE

- (1) 206 (WH)
- (2) 43 (DB)
- (3) -
- (4) 511 (LG)
- (5) -
- (6) 50 (RD)

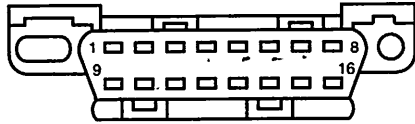
C251 (BK)

14A200/14401

Data Link Connector
(DLC) (14489)

* Stripped chassis

** Diesel



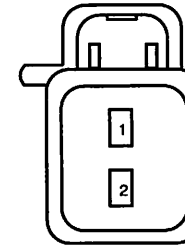
FEMALE

Pin	Circuit	Circuit function
1	-	not used
2	914 (TN/OG)	SCP Bus +
3	-	not used
4	*875 (BK/LB)	Ground
	1205 (BK)	
5	570 (BK/WH)	Ground
6	**3072 (PK/YE)	BCM- Voltage Sense Lead- VSL 01
7	70 (LB/WH)	ISO Bus
8	-	not used
9	-	not used
10	915 (PK/LB)	SCP Bus -
11	-	not used
12	-	not used
13	107 (VT)	Module programming signal
14	**3073 (RD/WH)	BCM- VSL 02
15	-	not used
16	40 (LB/WH)	Voltage supplied at all times (overload protected)

C256 (YE)

14401

Passenger air bag
module (15044A74)



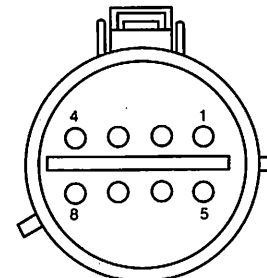
MALE

Pin	Circuit	Circuit function
1	607 (LB/OG)	Passenger air bag, feed, monitor
2	616 (PK/BK)	Passenger air bag, return

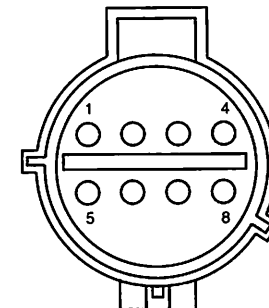
C275 (BK)

17B587

14401



MALE



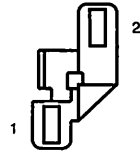
FEMALE

- (1) 28 (BK/PK)
- (2) 61 (YE/RD)
- (3) 941 (BK/WH)
- (4) 58 (WH)
- (5) 56 (DB/OG)
- (6) 65 (DG)
- (7) -
- (8) -

C278 (BK)

14A200/14401

Brake pedal position switch (13480)



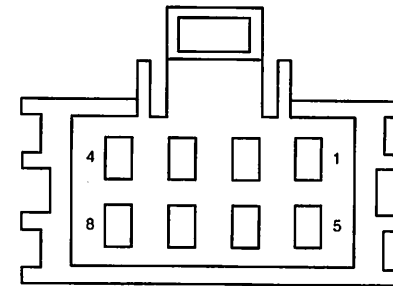
FEMALE

Pin	Circuit	Circuit function
1	10 (LG/RD)	Voltage supplied at all times (overload protected)
2	569 (DG)	Brake pedal position switch (13480), to stoplamps

C289 (WH)

14A200

Temperature blend door actuator (19E616)



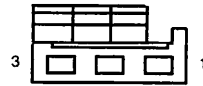
FEMALE

Pin	Circuit	Circuit function
1	-	not used
2	-	not used
3	437 (YE/LG)	Air temperature door variable resistor wiper
4	438 (RD/WH)	Air temperature door variable resistor -
5	-	not used
6	436 (RD/LG)	Air temperature door variable resistor -
7	489 (PK/BK)	Voltage in Run (overload protected)
8	57 (BK)	Ground

C282 (GY)

14A200/14401

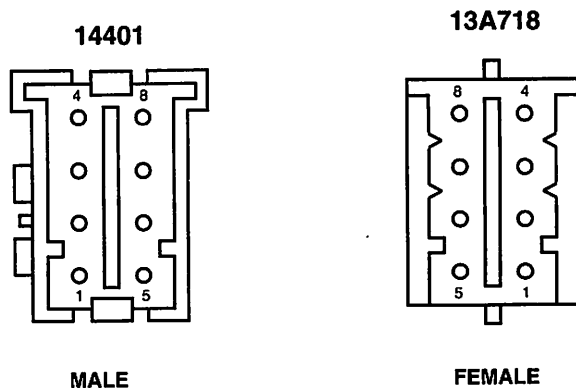
Inertia Fuel Shutoff (IFS) switch (9D362)



FEMALE

Pin	Circuit	Circuit function
1	866 (WH)	Fuel pump, Power
2	238 (DG/YE)	Fuel pump relay, switched power, output
3	-	not used

C291 (GY)
14401

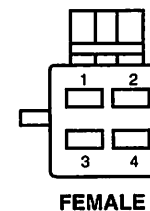


- (1) 2 (WH/LB)
(2) 3 (LG/WH)
(3) 14 (BN)
(4) 1507 (WH/RD)
(5) -
(6) 49 (OG)
(7) 511 (LG)
(8) 19 (LB/RD)

- (1) 2 (WH/LB)
(2) 3 (LG/WH)
(3) 14 (BN)
(4) 37 (YE)
(5) -
(6) 49 (OG)
(7) 511 (LG)
(8) 19 (LB/RD)

C294b (BK)
14401

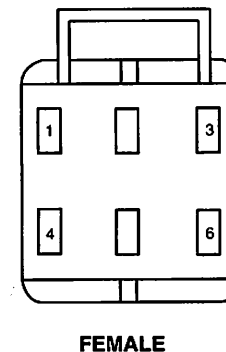
Function selector switch assembly, front



Pin	Circuit	Circuit function
1	261 (OG/BK)	Front blower motor (19805, output)
2	57 (BK)	Ground
3	260 (RD/OG)	Medium low
4	269 (LB/OG)	Medium high

C294c (GY)
14401

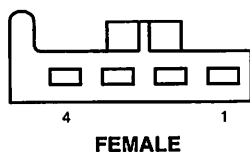
Function selector switch assembly, front



Pin	Circuit	Circuit function
1	752 (YE/RD)	Medium low
2	757 (RD/WH)	Heater and A/C control switch (HI-NORM) to blower motor switch relay
3	-	not used
4	57 (BK)	Ground
5	751 (DB/WH)	Medium high
6	-	not used

C294a (RD)
14401

Function selector switch assembly, front

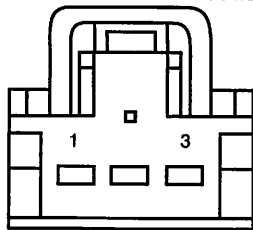


Pin	Circuit	Circuit function
1	489 (PK/BK)	Voltage in Run (overload protected)
2	348 (VT)	A/C demand signal
3	753 (YE/RD)	Function selector switch assembly, front, output
4	489 (PK/BK)	Voltage in Run (overload protected)

C294d (WH)

14401

Function selector
switch assembly, front



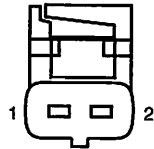
FEMALE

Pin	Circuit	Circuit function
1	438 (RD/WH)	Air temperature door variable resistor -
2	437 (YE/LG)	Air temperature door variable resistor, wiper
3	436 (RD/LG)	Air temperature door variable resistor +

C294e (BK)

14401

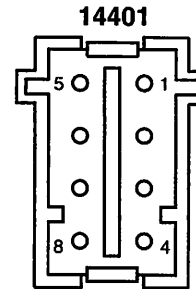
Function selector
switch assembly, front



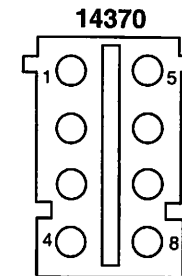
FEMALE

Pin	Circuit	Circuit function
1	57 (BK)	Ground
2	19 (LB/RD)	Instrument illumination, feed

C298 (BK)



MALE



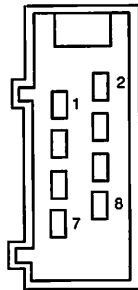
FEMALE

- (1) 753 (YE/RD)
- (2) 489 (PK/BK)
- (3) 137 (YE/BK)
- (4) 1542 (RD)
- (5) 54 (LG/YE)
- (6) 53 (BK/LB)
- (7) 348 (VT)
- (8) 784 (LB/BK)

- (1) 753 (YE/RD)
- (2) 489 (PK/BK)
- (3) 297 (BK/LG)
- (4) 37 (YE)
- (5) 54 (LG/YE)
- (6) 53 (BK/LB)
- (7) 348 (VT)
- (8) 345 (BK/PK)

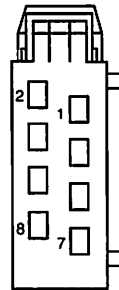
C299 (GY)

14A200



MALE

14405



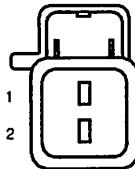
FEMALE

- (1) 1540 (DG)
- (2) 1541 (DB)
- (3) 48
- (4) -
- (5) -
- (6) -
- (7) -
- (8) 137 (YE/BK)

C303 (NA)

14A699

Passenger safety belt retractor pretensioner



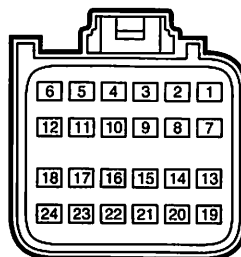
MALE

Pin	Circuit	Circuit function
1	1081 (YE/RD)	Passenger safety belt retractor pretensioner, feed
2	1082 (LB/BK)	Passenger safety belt retractor pretensioner, return

C310a (BK)

14A200

Restraints control
module (14B321)



FEMALE

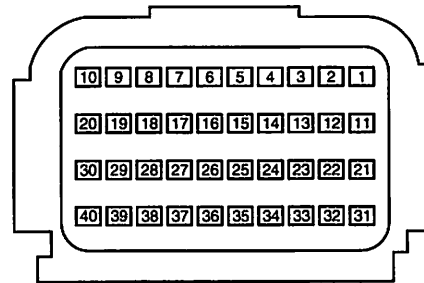
Pin	Circuit	Circuit function
1	614 (GY/OG)	Driver air bag, feed, monitor
2	615 (GY/WH)	Driver air bag, return
3	607 (LB/OG)	Passenger air bag, feed, monitor
4	616 (PK/BK)	Passenger air bag, return
5	-	not used
6	-	not used
7	-	not used
8	-	not used
9	-	not used
10	-	not used
11	70 (LB/WH)	1S0 9141K
12	937 (RD/WH)	Voltage supplied key in run or start (overload protected)

Pin	Circuit	Circuit function
13	-	not used
14	-	not used
15	608 (BK/YE)	Air bag indicator, control
16	1203 (BK/LB)	Electronic module logic ground
17	-	not used
18	-	not used
19	-	not used
20	-	not used
21	-	not used
22	-	not used
23	1083 (LB/PK)	Airbag/seat belt status tone output
24	-	not used

C310b (BK)

14A200

Restraints control
module (14B321)



FEMALE

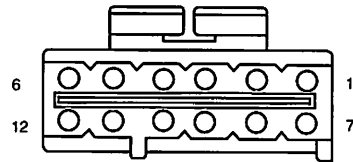
Pin	Circuit	Circuit function
1	-	not used
2	-	not used
3	-	not used
4	-	not used
5	-	not used
6	-	not used
7	-	not used
8	-	not used
9	-	not used
10	-	not used
11	-	not used
12	-	not used
13	-	not used
14	-	not used
15	-	not used
16	-	not used
17	1079 (LG/RD)	Driver safety belt retractor pretensioner, feed
18	1080 (LG/BK)	Driver safety belt retractor pretensioner, return
19	617 (PK/OG)	Air bag crash sensor #1 feed
20	618 (VT/LG)	Air bag crash sensor #1 ground monitor

Pin	Circuit	Circuit function
21	-	not used
22	-	not used
23	-	not used
24	-	not used
25	-	not used
26	-	not used
27	-	not used
28	-	not used
29	-	not used
30	-	not used
31	-	not used
32	-	not used
33	-	not used
34	-	not used
35	1081 (YE/RD)	Passenger safety belt retractor pretensioner, feed
36	1082 (LB/BK)	Passenger safety belt retractor pretensioner, return
37	-	not used
38	-	not used
39	-	not used
40	-	not used

C311 (BK)

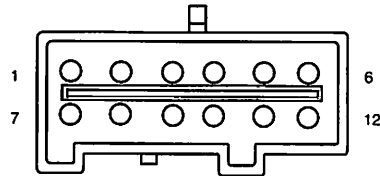
* w/o auxiliary A/C
 ** with power locks

14405



FEMALE

14A200



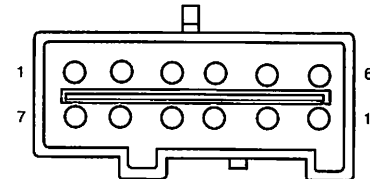
MALE

- (1) 752 (YE/RD)
*9 (LG/OG)
- (2) 753 (YE/RD)
*57 (BK)
- (3) 754 (LG/WH)
*5 (OG/LB)
- (4) 751 (DB/WH)
*140 (BK/PK)
- (5) 511 (LG)
- (6) 517 (BK/WH)
- (7) 884 (YE/BK)
*511 (LG)
- (8) 57 (BK)
*14 (BN)
- (9) 120 (PK/LG)
- (10) 119 (PK/YE)
- (11) 118 (PK/OG)
- (12) 117 (PK/BK)

- (1) 752 (YE/RD)
*9 (LG/OG)
- (2) 753 (YE/RD)
*57 (BK)
- (3) 754 (LG/WH)
*5 (OG/LB)
- (4) 751 (DB/WH)
*140 (BK/PK)
- (5) 511 (LG)
- (6) 517 (BK/WH)
- (7) 883 (PK/LB)
*511 (LG)
- (8) 57 (BK)
*14 (BN)
- (9) 120 (PK/LG)
**123 (RD)
- (10) 119 (PK/YE)
**124 (BN)
- (11) 118 (PK/OG)
- (12) 117 (PK/BK)

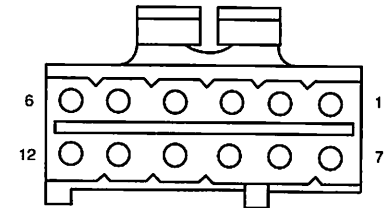
C312 (GY)

14A200



MALE

14A411

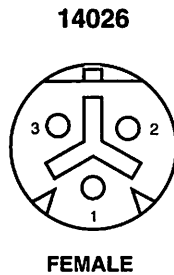
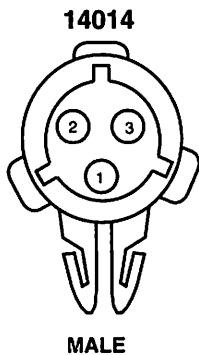


FEMALE

- (1) 801 (TN/YE)
- (2) 752 (YE/RD)
- (3) 803 (BN/PK)
- (4) 757 (RD/WH)
- (5) 14 (BN)
- (6) 883 (PK/LB)
- (7) 800 (GY/LB)
- (8) 753 (YE/RD)
- (9) 754 (LG/WH)
- (10) 751 (DB/WH)
- (11) 802 (OG/RD)
- (12) 19 (LB/RD)

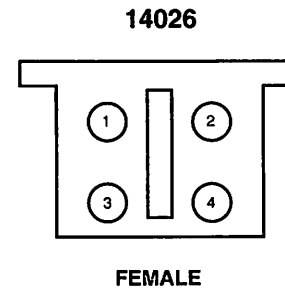
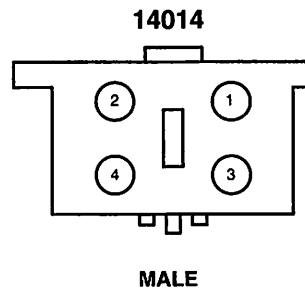
- (1) -
- (2) 752 (YE/RD)
- (3) -
- (4) 757 (RD/WH)
- (5) -
- (6) 884 (YE/BK)
- (7) -
- (8) -
- (9) 754 (LG/WH)
- (10) 751 (DB/WH)
- (11) -
- (12) 19 (LB/RD)

C313 (GY)



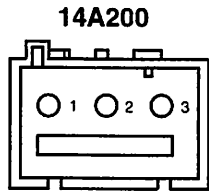
- (1) 53 (BK/LB)
- (2) 54 (LG/YE)
- (3) -

C314 (GY)

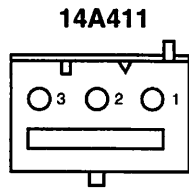


- (1) 803 (BN/PK)
- (2) 802 (OG/RD)
- (3) 117 (PK/BK)
- (4) 118 (PK/OG)

C315 (GY)
14405



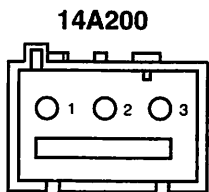
MALE



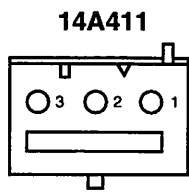
FEMALE

- (1) 53 (BK/LB)
- (2) 54 (LG/YE)
- (3) 57 (BK)

C316 (GY)



MALE

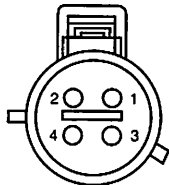


FEMALE

- (1) 53 (BK/LB)
- (2) 54 (LG/YE)
- (3) 57 (BK)

C323 (NA)
14A699

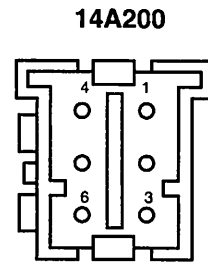
Driver safety belt retractor pretensioner



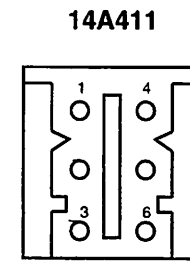
MALE

Pin	Circuit	Circuit function
1	1079 (LG/RD)	Driver safety belt retractor pretensioner, feed
2	1080 (LG/BK)	Driver safety belt retractor pretensioner, return
3	57 (BK)	Ground
4	85 (BN/LB)	Safety belt buckle switch (10B924), input

C328 (BN)



MALE



FEMALE

* with conversion

- (1) -
- (2) -
- (3) *57 (BK)
- (4) 49 (OG)
- (5) 1507 (WH/RD)
- (6) 1462 (RD/WH)

- (1) -
- (2) -
- (3) *57 (BK)
- (4) 49 (OG)
- (5) 1507 (WH/RD)
- (6) 1462 (RD/WH)

C329

14A280

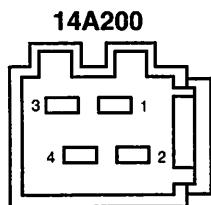
Remote jump start terminal



FEMALE

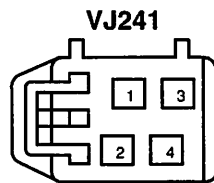
Pin	Circuit	Circuit function
	-	Battery cable positive

C340 (BK)



MALE

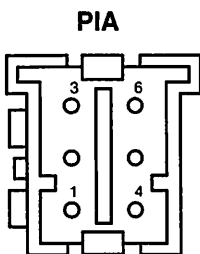
- (1) 1542 (RD)
- (2) 1543 (YE)
- (3) 57 (BK)
- (4) 57 (BK)



FEMALE

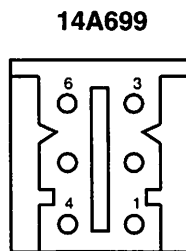
- (1) 16 (BN/PK)
- (2) 16 (RD)
- (3) 57 (BK)
- (4) 57 (BK)

C353 (BN)



MALE

- (1) 979 (RD/LB)
- (2) 990 (YE/LB)
- (3) 981 (RD/WH)
- (4) 982 (YE/LG)
- (5) 983 (RD/LG)
- (6) 980 (YE/WH)



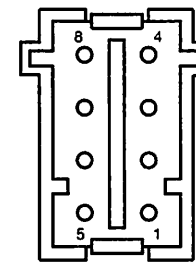
FEMALE

- (1) (RD/LB)
- (2) (YE/LB)
- (3) (RD/WH)
- (4) (YE/LG)
- (5) (RD/LG)
- (6) (YE/WH)

C360 (BK)

14A699

Seat adjust switch, driver side front (14A701)

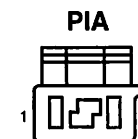


MALE

Pin	Circuit	Circuit function
1	57 (BK)	Ground
2	981 (RD/WH)	Fwd/Rwd motor, Forward
3	517 (BK/WH)	Voltage supplied at all times (overload protected)
4	983 (RD/LG)	Rear height motor, Up
5	980 (YE/WH)	Fwd/Rwd motor, Rearward
6	979 (RD/LB)	Front height motor, Up
7	982 (YE/LG)	Rear height motor, Down
8	990 (YE/LB)	Front height motor, Down

C362 (GY)

Driver seat horizontal motor

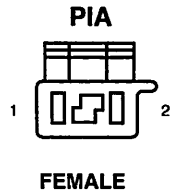


FEMALE

Pin	Circuit	Circuit function
1	(YE/WH)	Fwd/Rwd motor, Rearward
2	(RD/WH)	Fwd/Rwd motor, Forward

C363 (GY)

Driver seat rear height motor

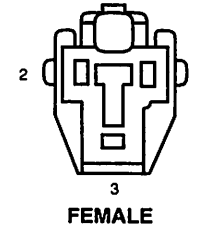


Pin	Circuit	Circuit function
1	(YE/LG)	Rear height motor, Down
2	(RD/LG)	Rear height motor, Up

C380 (BK)

14A200

Power point (19N236)

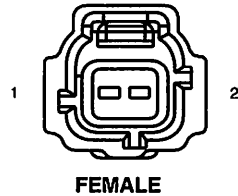


Pin	Circuit	Circuit function
1	131 (VT/OG)	Hot at all times
2	-	not used
3	57 (BK)	Ground

C364 (BK)

14A655

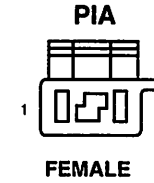
Extended range fuel tank valve 1



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

C382 (BK)

Driver seat front height motor

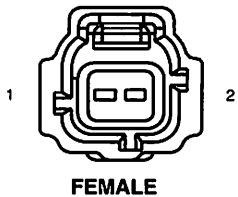


Pin	Circuit	Circuit function
1	(YE/LB)	Rear height motor, Down
2	(RD/LB)	Rear height motor, Up

C365 (BK)

14A655

Extended range fuel tank valve 2

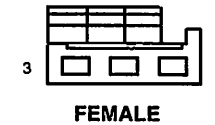


Pin	Circuit	Circuit function
1	787 (PK/BK)	Fuel pump, Power
2	57 (BK)	Ground

C398 (GY)

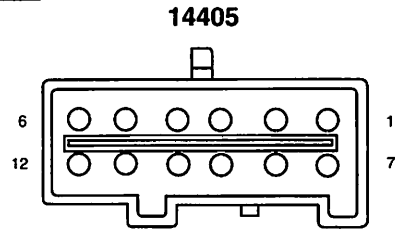
14014

Sliding door ajar switch, right



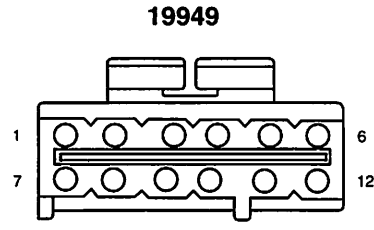
Pin	Circuit	Circuit function
1	628 (WH)	Sliding door wire
2	-	not used
3	57 (BK)	Ground circuit

C405 (GY)



MALE

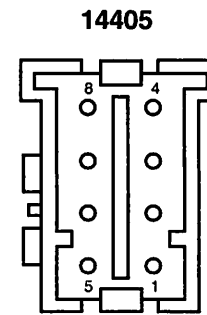
- (1) 884 (YE/BK)
- (2) -
- (3) 757 (RD/WH)
- (4) -
- (5) 752 (YE/RD)
- (6) 57 (BK)
- (7) -
- (8) -
- (9) 751 (DB/WH)
- (10) 753 (YE/RD)
- (11) 755 (BN/WH)
- (12) -



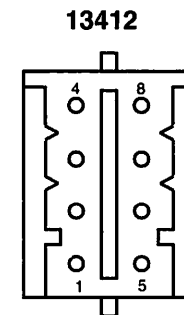
FEMALE

- (1) 884 (YE/BK)
- (2) -
- (3) 757 (RD/WH)
- (4) -
- (5) 752 (YE/RD)
- (6) 57 (BK)
- (7) -
- (8) -
- (9) 751 (DB/WH)
- (10) 753 (YE/RD)
- (11) 755 (BN/WH)
- (12) -

C406 (GY)



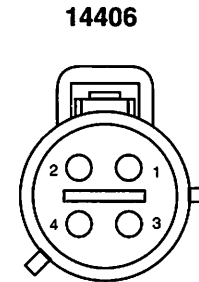
MALE



FEMALE

- (1) -
- (2) 14 (BN)
- (3) 118 (PK/OG)
- (4) 117 (PK/BK)
- (5) -
- (6) 57 (BK)
- (7) 803 (BN/PK)
- (8) 802 (OG/RD)

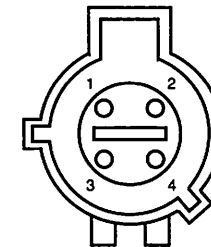
C408 (BK)



MALE

- (1) 52 (YE)
- (2) *57 (BK)
- (3) 64 (DG)
- (4) 962 (BN/WH)

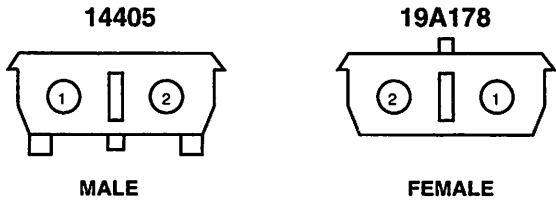
13A576 * with trailer tow class I



FEMALE

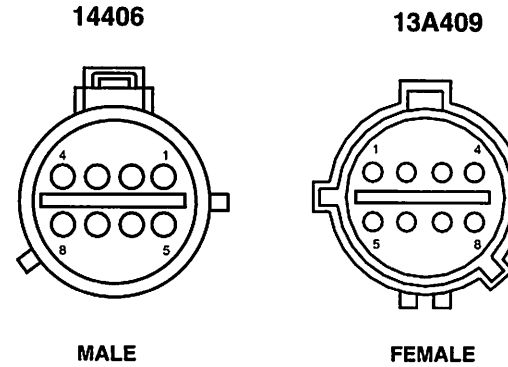
- (1) 52 (YE)
- (2) *206 (WH)
- (3) 64 (DG)
- (4) 962 (BN/WH)

C411 (GY)



- (1) 801 (TN/YE)
- (2) 800 (GY/LB)

C420 (BK)

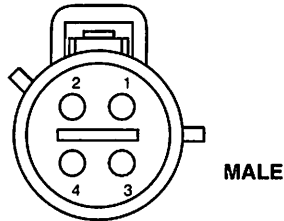


- (1) 5 (OG/LB)
- (2) 9 (LG/OG)
- (3) -
- (4) 140 (BK/PK)
- (5) 57 (BK)
- (6) 14 (BN)
- (7) -
- (8) -

C414 (GY)

13A409

Lamp assembly,
left rear (13405)

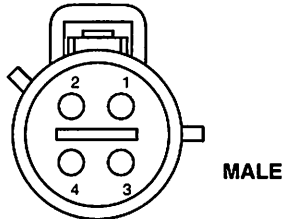


Pin	Circuit	Circuit function
1	140 (BK/PK)	Voltage supplied in reverse
2	57 (BK)	Grounds
3	14 (BN)	Power, Exterior lamps
4	9 (LG/OG)	Turn lamps, feed, left rear

C417 (GY)

13A409

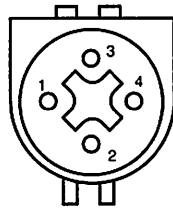
Lamp assembly,
right rear (13405)



Pin	Circuit	Circuit function
1	140 (BK/PK)	Voltage supplied in reverse
-2	57 (BK)	Grounds
3	14 (BN)	Power, Exterior lamps
4	9 (LG/OG)	Turn lamps, feed, right rear

C421 (BN)

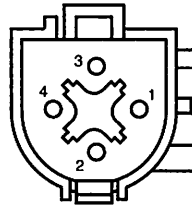
14406



MALE

- (1) 64 (DG)
- (2) 52 (YE)
- (3) 962 (BN/WH)
- (4) 206 (WH)

13A576/14A411

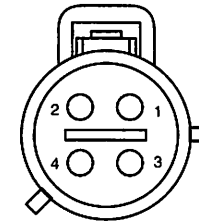


FEMALE

- (1) 64 (DG)
- (2) 52 (YE)
- (3) 962 (BN/WH)
- (4) 206 (WH)

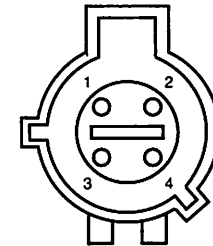
C423 (BK)

2B392



MALE

14406

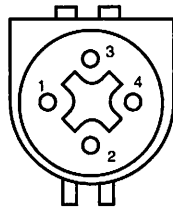


FEMALE

- (1) 519 (LG/BK)
- (2) -
- (3) 523 (RD/PK)
- (4) -

C422 (BK)

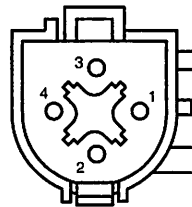
14406



MALE

- (1) 49 (OG)
- (2) 963 (BK/LG)
- (3) 57 (BK)
- ** 206 (WH)
- (4) 43 (DB)
- *206 (WH)

13A576/14A411



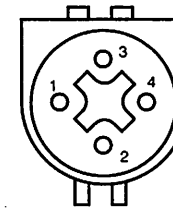
FEMALE

- (1) 49 (OG)
- (2) 963 (BK/LG)
- (3) 206 (WH)
- (4) 43 (DB)

* cutaway
 ** Van with 138" wheel base
 and trailer tow class II

C424 (BN)

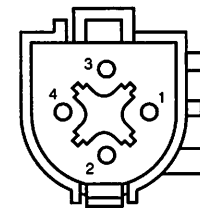
13A576



MALE

- (1) 64 (DG)
- (2) 52 (YE)
- (3) 962 (BN/WH)
- (4) 206 (WH)

14A411



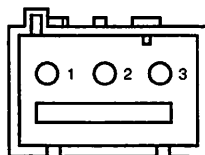
FEMALE

- (1) 64 (DG)
- (2) 52 (YE)
- (3) 962 (BN/WH)
- (4) 206 (WH)

C431 (GY)

- With power locks
- ** With remote keyless entry

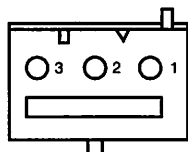
14405



MALE

- (1) 120 (PK/LG)
- (2) 517 (BK/WH)
- (3) 119 (PK/YE)

13412



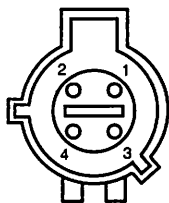
FEMALE

- (1) *123 (RD)
- **120 (PK/LG)
- (2) *517 (BK/WH)
- (3) *124 (BN)
- **119 (PK/YE)

C433 (BU)

9K499

Heated Oxygen Sensor (HO2S) #23 (9F472)



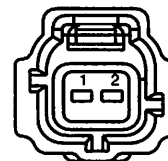
FEMALE

Pin	Circuit	Circuit function
1	361 (RD)	Voltage supplied in Start and Run (overload protected)
2	389 (WH/BK)	Heated Oxygen Sensor (HO2S) #23 (9F472), heater
3	359 (GY/RD)	signal, return
4	392 (RD/LG)	Heated Oxygen Sensor (HO2S) #23 (9F472), input

C450 (BK)

14406

Evaporative emission (EVAP) canister vent valve (9F945)



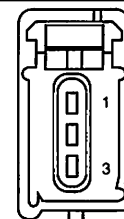
FEMALE

Pin	Circuit	Circuit function
1	361 (RD)	Voltage supplied in Start and Run (overload protected)
2	91 (VT/WH)	Canister vent

C451 (GY)

14405

Reversing lamp, left (13411)



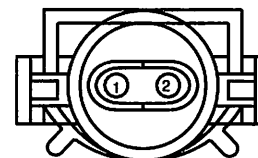
FEMALE

Pin	Circuit	Circuit function
1	57 (BK)	Ground
2	-	not used
3	140 (BK/PK)	Voltage supplied in reverse

C455 (BK)

2B392/14406

Rear axle speed sensor (4B409)



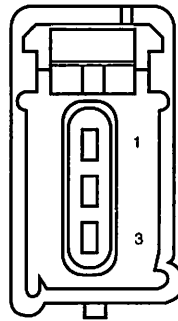
FEMALE

Pin	Circuit	Circuit function
1	523 (RD/PK)	Rear axle speed sensor (4B409) +
2	519 (LG/BK)	Rear axle speed sensor (4B409) -

C461 (GY)

14405

Reversing lamp, right (13411)



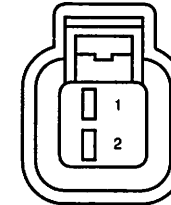
FEMALE

Pin	Circuit	Circuit function
1	57 (BK)	Ground
2	-	not used
3	140 (BK/PK)	Voltage supplied in reverse

C484 (BK)

19A178/14A411

Speaker, left rear (18808)



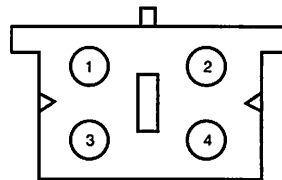
FEMALE

Pin	Circuit	Circuit function
1	800 (GY/LB)	Speaker, left front (18808) +
2	801 (TN/YE)	Speaker, left rear (18808) -

C475 (BK)

14405

High mounted stoplamp (13A613)



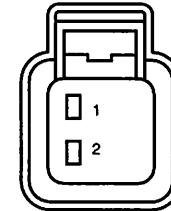
FEMALE

Pin	Circuit	Circuit function
1	511 (LG)	Brake pedal position switch (13480), to stoplamps
2	57 (BK)	Ground
3	54 (LG/YE)	Voltage supplied at all times (overload protected)
4	53 (BK/LB)	Interior lamp relay, switched power, output

C485 (BK)

13412/14A411

Speaker, right rear (18808)



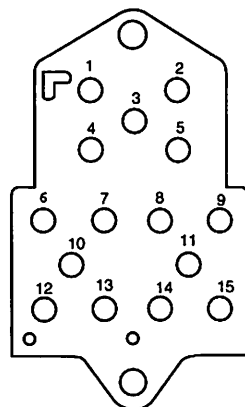
FEMALE

Pin	Circuit	Circuit function
1	802 (OG/RD)	Speaker, right rear (18808) +
2	803 (BN/PK)	Speaker, right rear (18808) -

C508 (BK)

14631

Master window/door lock/unlock switch



FEMALE

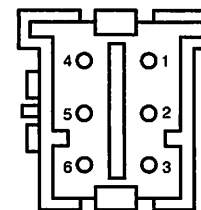
* with remote keyless entry
** without remote keyless entry

Pin	Circuit	Circuit function
1	**1297 (YE/RD)	signal, feed
2	123 (RD)	Door lock, feed
	*120 (PK/LG)	Door unlock, switch, input
3	517(BK/WH)	Voltage supplied at all times (overload protected), input
	*57 (BK)	Ground
4	124 (BN)	Door lock, output
	*119 (PK/YE)	Door lock switch
5	**1296 (OG/BK)	Door lock input
6	226 (WH/BK)	Power window switch, driver, feed
7	57 (BK)	Ground
8	314 (TN/LB)	Window switch, feed, right front, Up
9	57 (BK)	Ground
10	170 (RD/LB)	Battery voltage, hot in Run and Accessory only
11	170 (RD/LB)	Window lockout, switched power, output
12	57 (BK)	Ground
13	227 (YE)	Power window motor, left front, Down, feed
14	57 (BK)	Ground
15	313 (WH/YE)	Window switch, feed, right front, Down

C521 (BN)

19A041/14631

Exterior rear view mirror, driver side (17682)



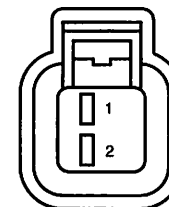
MALE

Pin	Circuit	Circuit function
1	540 (RD)	Right/Left mirror movement
2	542 (YE)	Mirror motor, feed
3	541 (DB)	Up/Down mirror movement
4	-	not used
5	-	not used
6	-	not used

C523 (BK)

19A041/14631

Speaker, left front (18808)



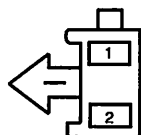
FEMALE

Pin	Circuit	Circuit function
1	804 (OG/LG)	Speaker, left front (18808) +
2	813 (LB/WH)	Speaker, left front (18808) -

C524 (GY)

14631

Power window motor, driver side front (23395)



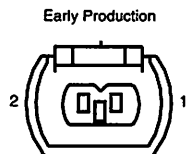
MALE

Pin	Circuit	Circuit function
1	227 (YE)	Power window motor, left front, feed
2	226 (WH/BK)	Two speed axle motor, feed

C525 (BK)

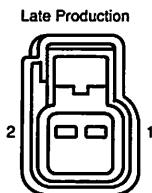
14631

Door lock actuator, left front



FEMALE

* with remote keyless entry



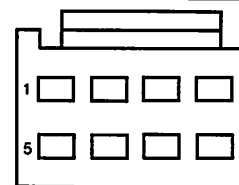
FEMALE

Pin	Circuit	Circuit function
1	117 (PK/BK)	Door lock, output
2	118 (PK/OG)	Door unlock, output
	*163 (RD/OG)	Door unlock, output

C527 (GY)

14631/19A041

Exterior rear view mirror switch (178676)



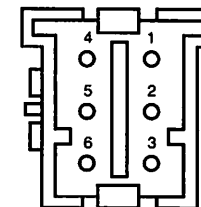
FEMALE

Pin	Circuit	Circuit function
1	956 (OG/LG)	Voltage supplied at all times (overload protected)
2	-	not used
3	543 (DG)	Right/Left mirror movement, Mirror motor, passenger side, control
4	540 (RD)	Right/Left mirror movement, Mirror motor, driver side, control
5	57 (BK)	Ground
6	542 (YE)	Mirror motor, feed
7	541 (DB)	Up/Down mirror movement, driver side, control
8	544 (VT)	Up/Down mirror movement, passenger side, control

C601 (BN)

19A041/14630

Exterior rear view mirror, passenger side (17683)



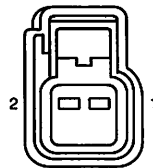
MALE

Pin	Circuit	Circuit function
1	544 (VT)	Up/Down mirror movement
2	542 (YE)	Mirror motor, feed
3	543 (DG)	Right/Left mirror movement
4	-	not used
5	-	not used
6	-	not used

C603 (WH)

14630

Door lock actuator,
right front



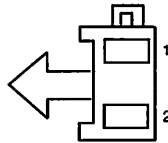
FEMALE

Pin	Circuit	Circuit function
1	117 (PK/BK)	Door lock, output
2	118 (PK/OG)	Door unlock, output

C608 (GY)

14630

Power window
motor, passenger
side front (23394)



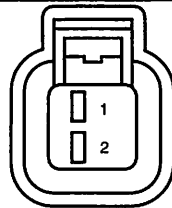
MALE

Pin	Circuit	Circuit function
1	333 (YE/RD)	Window motor, feed, Up
2	334 (RD/YE)	Window motor, feed, Down

C612 (BK)

14630/19A041

Speaker, right front (18808)



FEMALE

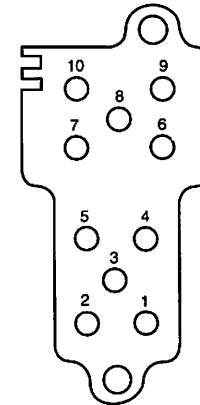
* modified vehicle

Pin	Circuit	Circuit function
1	805 (WH/LG)	Speaker, right front (18808) +
	*804 (OG/LG)	Speaker, right front (18808) +
2	811 (DG/OG)	Speaker, right front (18808) -
	*813 (LB/WH)	Speaker, right front (18808) -

C629 (BK)

14630

Front passenger
window/door lock
switch

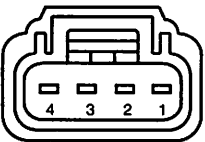


FEMALE

* with remote keyless entry
** without remote keyless entry

Pin	Circuit	Circuit function
1	333 (YE/RD)	Window motor, feed, Down
2	314 (TN/LB)	Window switch, feed, right front, Up
3	170 (RD/LB)	Battery voltage, hot in Run and Accessory only
4	313 (WH/YE)	Window switch, feed, right front, Down
5	334 (RD/YE)	Window motor, feed, Down
6	**57 (BK)	Ground
7	*120 (PK/LG)	Door lock, feed
	**124 (BN)	Door unlock, feed
8	*57 (BK)	Ground
	**517 (BK/WH)	Voltage supplied at all times (overload protected)
9	*119 (PK/YE)	Door lock, feed
	** 123 (RD)	Door lock, input
10	**57 (BK)	Ground

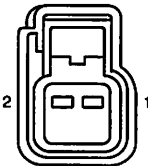
C807 (BK)
14026
 Sliding door contact switch, right



FEMALE

Pin	Circuit	Circuit function
1	803 (BN/PK)	Speaker, right rear (18808) -
2	118 (PK/OG)	Door unlock, output
3	117 (PK/BK)	Door lock, output
4	802 (OG/RD)	Speaker, right rear (18808) +

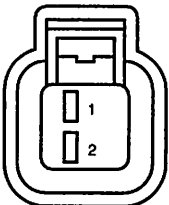
C817 (BK)
14026
 Side door lock actuator, right



FEMALE

Pin	Circuit	Circuit function
1	117 (PK/BK)	Door lock, output
2	118 (PK/OG)	Door unlock, output

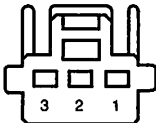
C813 (BK)
14026
 Speaker, right middle



FEMALE

Pin	Circuit	Circuit function
1	802 (OG/RD)	Speaker, right rear (18808) +
2	803 (BN/PK)	Speaker, right rear (18808) -

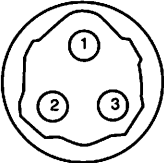
C901 (GY)
14334
 Rear interior lamp



FEMALE

Pin	Circuit	Circuit function
1	53 (BK/LB)	Interior lamp relay, switched power, output
2	57 (BK)	Ground
3	54 (LG/YE)	Voltage supplied at all times (overload protected)

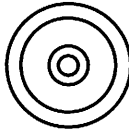
C816 (NA)
14026
 Side door ajar switch, right



MALE

Pin	Circuit	Circuit function
1	-	not used
2	54 (LG/YE)	Voltage supplied at all times (overload protected)
3	53 (BK/LB)	Interior lamps, control

C906 (NA)
14335
 Vanity mirror lamp, right (04100)



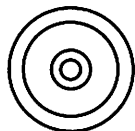
MALE

Pin	Circuit	Circuit function
1	54 (LG/YE)	Voltage supplied at all times (overload protected)

C907 (NA)

14335

Vanity mirror lamp,
left (04100)

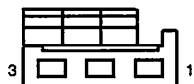


MALE

Pin	Circuit	Circuit function
1	54 (LG/YE)	Voltage supplied at all times (overload protected)

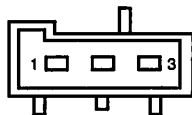
C913 (GY)

14334



FEMALE

14334

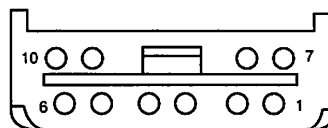


MALE

- (1) 53 (BK/LB)
- (2) 57 (BK)
- (3) 54 (LG/YE)

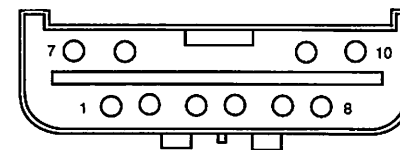
C919 (BK)

14335



FEMALE

14A200

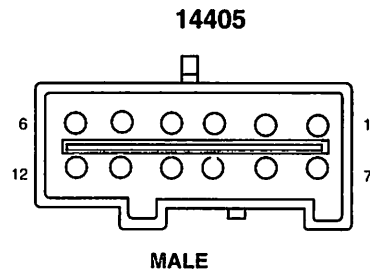


MALE

- (1) 14 (BN)
- (2) 729 (RD/WH)
- (3) 767 (LB/OG)
- (4) 875 (BK/LB)
- (5) 679 (GY/BK)
- (6) 470 (PK/BK)
- (7) 137 (YE/BK)
- (8) -
- (9) -
- (10) -

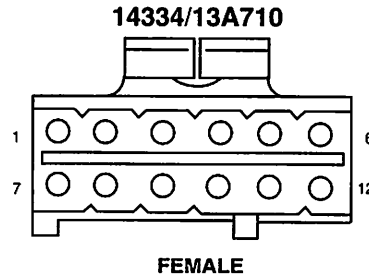
- (1) 14 (BN)
- (2) -
- (3) 767 (LB/OG)
- (4) 875 (BK/LB)
- (5) 679 (GY/BK)
- (6) 470 (PK/BK)
- (7) 137 (YE/BK)
- (8) -
- (9) -
- (10) -

C925 (GY)



- (1) -
- (2) 755 (BN/WH)
*57 (BK)
- (3) 757 (RD/WH)
- (4) 57 (BK)
- (5) 752 (YE/RD)
- (6) 54 (LG/YE)
- (7) 19 (LB/RD)
- (8) 137 (YE/BK)
- (9) 751 (DB/WH)
- (10) 754 (LG/WH)
- (11) 48 (BK)
- (12) 53 (BK/LB)

* E-Traveler
** without auxiliary a/c

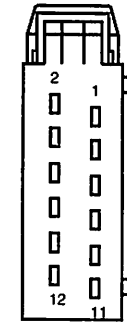


- (1) -
- (2) 755 (BN/WH)
*57 (BK)
- (3) 757 (RD/WH)
- (4) 57 (BK)
- (5) 752 (YE/RD)
- (6) 54 (LG/YE)
- (7) 19 (LB/RD)
- (8) 137 (YE/BK)
- (9) 751 (DB/WH)
- (10) 754 (LG/WH)
**755 (BN/WH)
- (11) 48 (BK)
- (12) 53 (BK/LB)

C930 (BK)

14335

Overhead Console

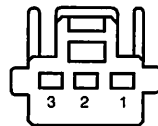


Pin	Circuit	Circuit function
1	137 (YE/BK)	Voltage in Run or Accessory (overload protected)
2	875 (BK/LB)	Ground
3	679 (GY/BK)	Vehicle Speed Sensor (VSS) +
4	14 (BN)	Power, Exterior lamps
5	767 (LB/OG)	Ambient air temperature sensor (19E702), feed
6	470 (PK/BK)	Sensor signal return (reference/ground)
7	-	not used
8	-	not used
9	-	not used
10	-	not used
11	729 (RD/WH)	Voltage supplied at all times (overload protected)
12	875 (BK/LB)	Ground

C926 (WH)

14334

Cargo lamp

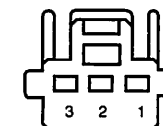


Pin	Circuit	Circuit function
1	53 (BK/LB)	Interior lamp relay, switched power, output
2	57 (BK)	Ground
3	54 (LG/YE)	Voltage supplied at all times (overload protected)

C931 (WH)

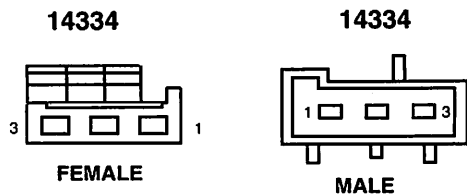
14335

Interior/map lamps assembly, front



Pin	Circuit	Circuit function
1	53 (BK/LB)	Interior lamp relay, switched power, output
2	57 (BK)	Ground
3	54 (LG/YE)	Voltage supplied at all times (overload protected)

C935 (GY)

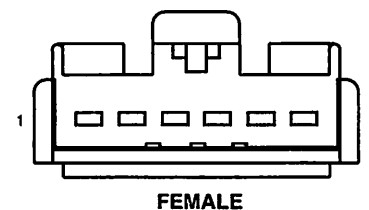


- (1) 53 (BK/LB)
- (2) 57 (BK)
- (3) 54 (LG/YE)

C976 (WH)

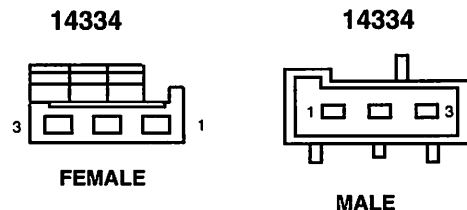
14334

Video display, left



Pin	Circuit	Circuit function
1	137 (YE/BK)	Voltage in Run or Accessory (overload protected)
2	-	not used
3	57 (BK)	Ground
4	48	Shield
5	1540 (DG)	video, input, from, Rear Seat Entertainment (RSE) module +
6	1541 (DB)	video, input, from, Rear Seat Entertainment (RSE) module -

C936 (GY)

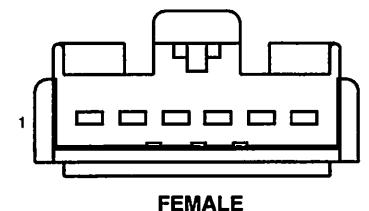


- (1) 53 (BK/LB)
- (2) 57 (BK)
- (3) 54 (LG/YE)

C977 (WH)

14334

Video display, right

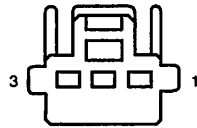


Pin	Circuit	Circuit function
1	137 (YE/BK)	Voltage in Run or Accessory (overload protected)
2	-	not used
3	57 (BK)	Ground
4	48	Shield
5	1540 (DG)	video, input, from, Rear Seat Entertainment (RSE) module +
6	1541 (DB)	video, input, from, Rear Seat Entertainment (RSE) module -

C981 (WH)

14334

Interior lamp



FEMALE

Pin	Circuit	Circuit function
1	53 (BK/LB)	Interior lamp relay, switched power, output
2	57 (BK)	Ground
3	54 (LG/YE)	Voltage supplied at all times (overload protected)

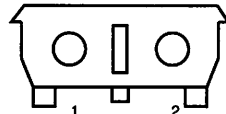
C983 (GY)

14334



FEMALE

14405



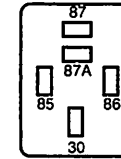
MALE

- (1) 1541 (DB)
- (2) 1540 (DG)

C1001

12A581

Starter relay



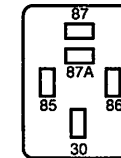
FEMALE

Pin	Circuit	Circuit function
30	1523 (DG)	Voltage supplied at all times (overload protected)
85	1419 (LG/YE)	Voltage supplied at all times (overload protected)
86	1093 (TN/RD)	Relay, control
87	113 (YE/LB)	Starter relay (11450), switched power, output
87A	-	not used

C1002

12A581

Accessory delay relay



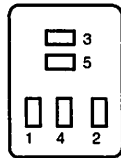
FEMALE

Pin	Circuit	Circuit function
30	1050 (LG/VT)	Voltage supplied at all times (overload protected)
85	1004 (LB/RD)	Relay, control
86	729 (RD/WH)	Voltage supplied at all times (overload protected)
87	964 (DB/LG)	Accessory delay relay, switched power, output
87A	-	not used

C1006

12A581

Horn relay



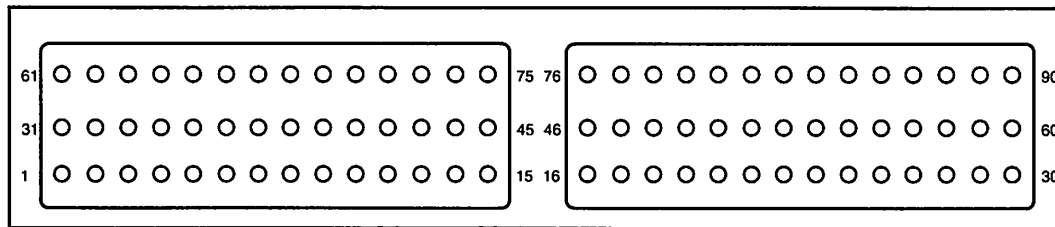
FEMALE

Pin	Circuit	Circuit function
1	460 (YE/LB)	Voltage supplied at all times (overload protected)
2	1 (DB)	Horn relay, control
3	460 (YE/LB)	Voltage supplied at all times (overload protected)
4	-	not used
5	6 (YE/LG)	Horn relay, switched power, output

C1009 (BK)

12A581

Natural Gas Vehicle
(NGV) module



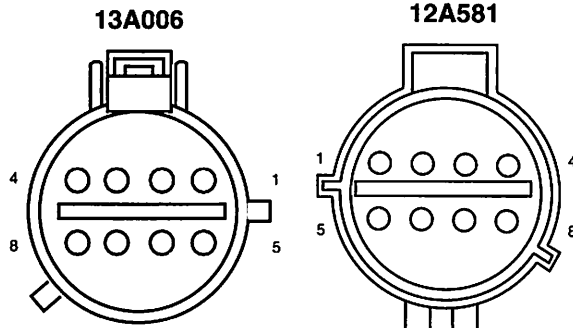
FEMALE

Pin	Circuit	Circuit function
1	570 (BK/WH)	Communication network ground
2	570 (BK/WH)	Communication network ground
3	570 (BK/WH)	Communication network ground
4	570 (BK/WH)	Communication network ground
5	-	not used
6	-	not used
7	-	not used
8	-	not used
9	-	not used
10	-	not used
11	-	not used
12	-	not used
13	-	not used
14	-	not used
15	-	not used
16	-	not used
17	570 (BK/WH)	Communication network ground
18	-	not used
19	570 (BK/WH)	Communication network ground
20	-	not used

Pin	Circuit	Circuit function
21	570 (BK/WH)	Communication network ground
22	-	not used
23	570 (BK/WH)	Communication network ground
24	-	not used
25	-	not used
26	-	not used
27	-	not used
28	-	not used
29	-	not used
30	-	not used
31	1164 (LB)	Fuel rail temperature sensor
32	-	not used
33	1162 (LG/RD)	Fuel tank temperature sensor
34	-	not used
35	-	not used
36	-	not used
37	1161 (DG/OG)	Fuel tank pressure sensor
38	141 (RD/PK)	Fuel rail pressure transducer
39	-	not used
40	-	not used

Pin	Circuit	Circuit function	Pin	Circuit	Circuit function
41	-	not used	66	1170 (YE/LB)	Fuel injector 6, input
42	-	not used	67	1171 (WH)	Fuel injector 7, input
43	-	not used	68	1172 (YE)	Fuel injector 8, input
44	-	not used	69	-	not used
45	361 (RD)	Power output from EEC relay	70	-	not used
46	555 (TN)	Fuel injector 1, control	71	-	not used
47	556 (WH)	Fuel injector 2, control	72	-	not used
48	557 (BN/YE)	Fuel injector 3, control	73	-	not used
49	558 (BN/LB)	Fuel injector 4, control	74	1160 (BN/WH)	Fuel tank pressure sensor
50	559 (TN/BK)	Fuel injector 5, control	75	875 (BK/LB)	Ground
51	560 (LG/OG)	Fuel injector 6, control	76	-	not used
52	561 (TN/RD)	Fuel injector 7, control	77	-	not used
53	562 (LB)	Fuel injector 8, control	78	-	not used
54	-	not used	79	-	not used
55	-	not used	80	-	not used
56	-	not used	81	-	not used
57	-	not used	82	-	not used
58	-	not used	83	-	not used
59	-	not used	84	-	not used
60	361 (RD)	Power output from ECC relay	85	-	not used
61	1165 (WH/RD)	Fuel injector 1, input	86	-	not used
62	1166 (YE/RD)	Fuel injector 2, input	87	914 (TN/OG)	SCP Bus +
63	1167 (WH/BK)	Fuel injector 3, input	88	915 (PK/LB)	SCP Bus -
64	1168 (YE/BK)	Fuel injector 4, input	89	1163 (BN)	NGV module signal return
65	1169 (WH/LB)	Fuel injector 5, input	90	-	not used

C1010 (BK)



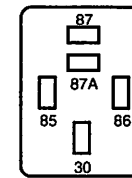
MALE

FEMALE

- | | | | |
|----------------|----------------|-----------------|-----------------|
| (1) 57 (BK) | (5) 2 (WH/LB) | (1) 57 (BK) | (5) 2 (WH/LB) |
| (2) 14 (BN) | (6) 3 (LG/WH) | (2) 14 (BN) | (6) 3 (LG/WH) |
| (3) 12 (LG/BK) | (7) 13 (RD/BK) | (3) 12 (LG/BK) | (7) 161 (DG/OG) |
| (4) 13 (RD/BK) | (8) - | (4) 160 (DB/WH) | (8) - |

C1016
12A581

PCM power relay

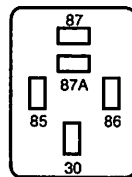


FEMALE

Pin	Circuit	Circuit function
30	554 (YE/BK)	Voltage supplied at all times (overload protected)
85	570 (BK/WH)	Ground
86	20 (WH/LB)	Voltage supplied in Start and Run (overload protected)
87	361 (RD)	Voltage supplied in Start and Run (overload protected)
87A	-	not used

C1011
12A581

Blower motor relay



FEMALE

Pin	Circuit	Circuit function
30	364 (BK/LG)	Voltage supplied at all times (overload protected)
86	753 (YE/RD)	Function selector switch assembly, front, output
85	57 (BK)	Ground
87	515 (OG/RD)	Blower motor relay, switch, output
87A	-	not used

C1017a
10K304/14300/14439

Starter relay (11450)



FEMALE

Pin	Circuit	Circuit function
1	2037 (RD)	Battery cable +
	303 (YE)	

C1017b

14300

Starter relay (11450)



FEMALE

Pin	Circuit	Circuit function
1	2037 (RD)	Battery cable +

C1017c (BK)

12A581

Starter relay (11450)



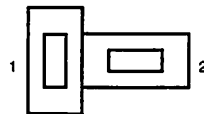
FEMALE

Pin	Circuit	Circuit function
1	32 (RD/LB)	Voltage supplied in Start (overload protected)

C1018

12A581

PCM power diode



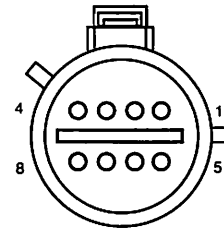
MALE

Pin	Circuit	Circuit function
1	20 (WH/LB)	Voltage supplied in Start and Run (overload protected)
2	16 (RD/LG)	Voltage supplied in Start and Run (overload protected)

C1019 (GY)

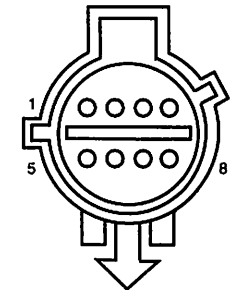
* Dual generators

14305



MALE

12A581



FEMALE

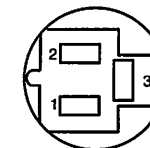
- (1) 440 (TN/LG)
- (2) *904 (LG/RD)
- (3) 904 (LG/RD)
- (4) 1185 (YE)
- (5) 35 (OG/LB)
- (6) 1183 (WH/YE)
- (7) -
- (8) -

- (1) *440 (TN/LG)
- 904 (LG/RD)
- (2) 904 (LG/RD)
- (3) *904 (LG/RD)
- (4) *440 (TN/LG)
- (5) *35 (OG/LB)
- (6) *1183 (WH/YE)
- (7) -
- (8) -

C1021 (BK)

14290

Headlamp, left (13008)



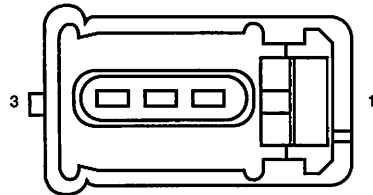
FEMALE

Pin	Circuit	Circuit function
1	57 (BK)	Ground
2	12 (LG/BK)	Power, Hot with High Beams on
3	160 (DB/WH)	Power, Hot with Low Beams on

C1023 (BK)

14290

Park/turn lamp, left front (13411)



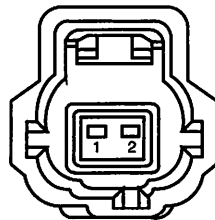
FEMALE

Pin	Circuit	Circuit function
1	57 (BK)	Ground
2	14 (BN)	Power - Exterior lamps
3	3 (LG/WH)	Turn lamps, feed, left front

C1025 (BK)

12A581

Brake pressure switch (2B264)

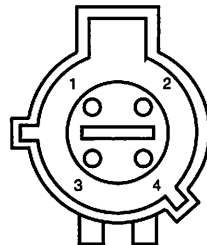


FEMALE

Pin	Circuit	Circuit function
1	307 (BK/YE)	Brake pressure switch (2B264), input
2	547 (LG/YE)	Voltage supplied at all times (overload protected)

C1026 (BK)

12A581

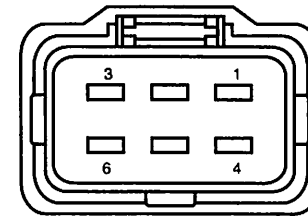


- (1) 441 (RD/YE)
- (2) 348 (VT)
- (3) 347 (BK/YE)
- (4) 441 (RD/YE)

C1030 (GY)

14290/12A581

Daytime Running Lamps (DRL) module

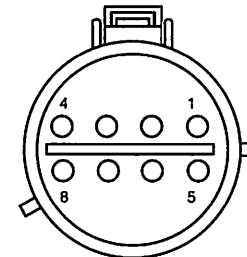


FEMALE

Pin	Circuit	Circuit function
1	13 (RD/BK)	Power, Hot with Low Beams on
2	932 (GY/WH)	Voltage supplied at all times (overload protected)
3	295 (LB/PK)	Voltage in Run (overload protected)
4	1205 (BK)	Ground
5	12 (LG/BK)	Power, Hot with High Beams on
6	-	not used

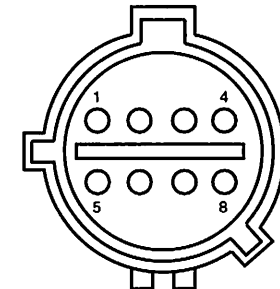
C1033 (BK)

12A581



MALE

12A690



FEMALE

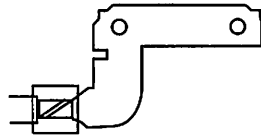
- (1) 743 (GY)
- (2) 967 (LB/RD)
- (3) 968 (TN/LB)
- (4) 359 (GY/RD)

- (5) 570 (BK/WH)
- (6) 361 (RD)
- (7) -
- (8) -

C1035a

14439

Battery Junction Box
(BJB) (14A003)

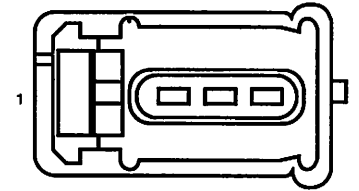


Pin	Circuit	Circuit function
1	37 (YE)	Voltage supplied at all times (overload protected)

C1043 (BK)

14290

Park/turn lamp,
right front (13411)



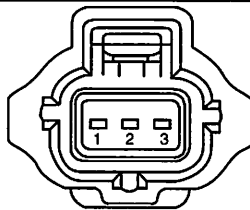
FEMALE

Pin	Circuit	Circuit function
1	57 (BK)	Ground
2	14 (BN)	Power, Exterior lamps
3	2 (WH/LB)	Turn lamps, feed, right front

C1036 (BK)

12B637

Injection pressure
sensor



FEMALE

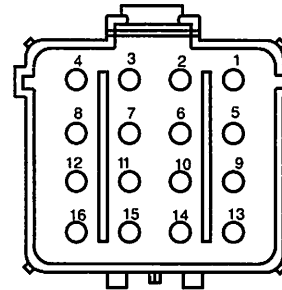
Pin	Circuit	Circuit function
1	351 (BR/WH)	Power to engine sensor
2	359 (GY/RD)	Sensor signal return
3	141 (RD/PK)	Fuel rail pressure transducer

C1045 (GY)

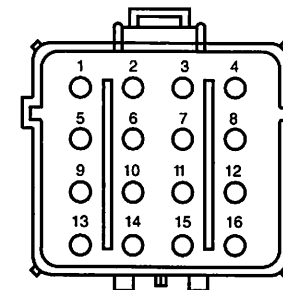
* Except Natural Gas Vehicle (NGV)

12B637

7C078



FEMALE



MALE

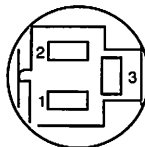
- (1) 136 (DB/YE)
- (2) *392 (RD/LG)
- (3) *390 (TN/YE)
- (4) *389 (WH/BK)
- (5) *393 (VT/LG)
- (6) 970 (DG/WH)
- (7) 359 (GY/RD)
- (8) 359 (GY/RD)

- (9) 74 (GY/LB)
- (10) 359 (GY/RD)
- (11) 359 (GY/RD)
- (12) 359 (GY/RD)
- (13) 361 (RD)
- (14) 1093 (TN/RD)
- (15) 140 (BK/PK)
- (16) 296 (WH/VT)

C1041 (BK)

14290

Headlamp, right (13008)

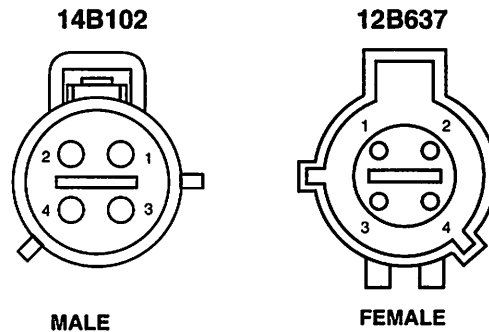


FEMALE

Pin	Circuit	Circuit function
1	57 (BK)	Ground
2	12 (LG/BK)	Power, Hot with High Beams on
3	161 (DG/OG)	Power, Hot with Low Beams on

C1046 (BK)

12B637

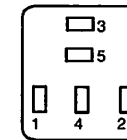


Pin	Circuit	Circuit function
1	-	not used
2	1102 (YE/LG)	Cylinder head temperature sensor signal
3	359 (GY/RD)	Sensor signal return
4	-	not used

C1051

12A581

Fuel pump relay



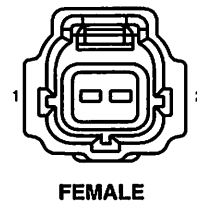
* Diesel
** Natural Gas Vehicle (NGV)

Pin	Circuit	Circuit function
1	361 (RD)	Voltage supplied at all times (overload protected)
2	570 (BK/WH)	Fuel pump relay, control
	*926 (LB/OG)	Fuel pump relay, control
	**821 (BN/OG)	Fuel pump relay, control
3	1059 (LB/OG)	Fuel pump relay, switched power, output
4	-	not used
5	238 (DG/YE)	Fuel pump monitor to EEC module/fuel pump relay to safety switch

C1047 (GY)

14B102

Cylinder head temperature sensor (6G004)

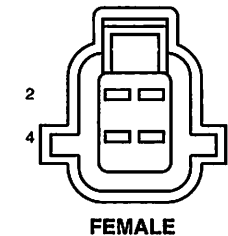


Pin	Circuit	Circuit function
1	1102 (YE/LG)	Reference voltage
2	359 (GY/RD)	Signal return

C1062 (BK)

12A581

Dual pressure switch (19D594)

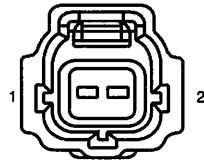


Pin	Circuit	Circuit function
1	441 (RD/YE)	A/C compressor cycling switch (19E561)
2	198 (DG/OG)	Relay, control
3	57 (BK)	Ground
4	347 (BK/YE)	Dual pressure switch signal

C1064 (GY)

12B637

Engine Coolant Temperature (ECT) sensor (12A648)



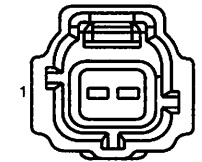
FEMALE

Pin	Circuit	Circuit function
1	359 (GY/RD)	Signal return
2	3076 (YE/WH)	Reference voltage

C1072 (BK)

12B637

EGR vacuum regulator solenoid (9J459)



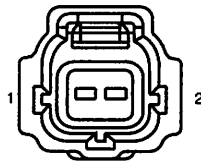
FEMALE

Pin	Circuit	Circuit function
1	361 (RD)	Voltage supplied in Start and Run (overload protected)
2	360 (BN/PK)	EGR Vacuum Regulator (EVR), control

C1066 (BK)

12B637

Idle Air Control (IAC) valve (9F715)



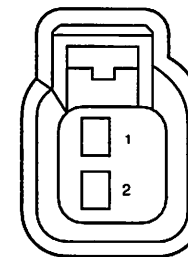
FEMALE

Pin	Circuit	Circuit function
1	361 (RD)	Voltage supplied in Start and Run (overload protected)
2	264 (WH/LB)	Idle Air Control (IAC) valve (9F715), control

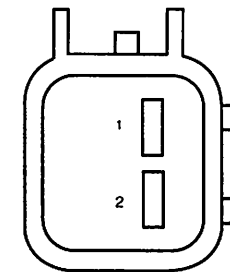
C1075 (BK)

12B637

7C078



FEMALE



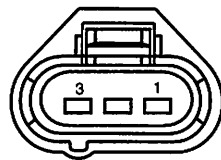
MALE

(1) 1362 (DG/OG)
(2) 911 (WH/LG)

C1068 (GY)

12B637

Differential Pressure Feedback EGR (DPFE) sensor (9J460)



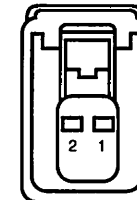
FEMALE

Pin	Circuit	Circuit function
1	352 (BN/LG)	Differential Pressure Feedback EGR (DPFE) sensor, input
2	359 (GY/RD)	Signal return
3	351 (BN/WH)	Reference voltage

C1076 (BN)

9A340

Fuel heater



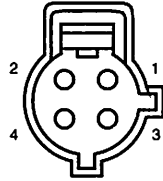
FEMALE

Pin	Circuit	Circuit function
1	16 (RD/LG)	Voltage supplied in Start and Run (overload protected)
2	57 (BK)	Ground

C1078 (BK)

12A581

A/C high pressure switch (19D594)



FEMALE

Pin	Circuit	Circuit function
1	347 (BK/YE)	A/C pressure switch, to, A/C clutch solenoid
2	-	not used
3	441 (RD/YE)	A/C pressure switch, to A/C cycling switch
4	-	not used

C1100a

14300/14N144

Battery (10655)



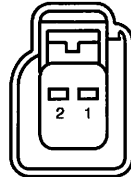
FEMALE

Pin	Circuit	Circuit function
1	2037 (RD)	Battery cable (+)
	2057 (RD)	Battery cable (+)

C1080 (BK)

9A340

Water-in-fuel sensor



FEMALE

Pin	Circuit	Circuit function
1	1280 (GY/RD)	Water-in-fuel sensor
2	359 (GY/RD)	Sensor signal return

C1100b

14301

Battery (10655)



FEMALE

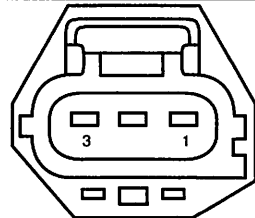
* Gasoline

Pin	Circuit	Circuit function
1	2057 (BK)	Battery cable -
	*2057 (BK)	

C1087 (BK)

12A581

Manifold Absolute Pressure (MAP) sensor



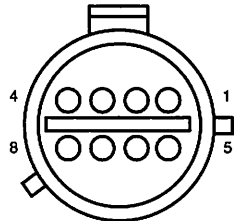
FEMALE

Pin	Circuit	Circuit function
1	351 (BN/WH)	Reference voltage
2	358 (LG/BK)	Manifold Absolute Pressure (MAP) sensor, to, Power-train Control Module (PCM) (12A650)
3	359 (GY/RD)	Signal return

C1158 (BK)

12B637

Electronic fan clutch



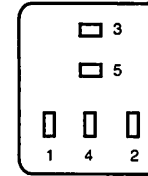
MALE

Pin	Circuit	Circuit function
1	229 (RD/OG)	cooling fan speed signal
2	360 (BN/PK)	Signal return
3	-	not used
4	228 (DB)	Switched ground
5	361 (RD)	Voltage with PCM relay (overload protected)
6	352 (BN/LG)	Reference voltage
7	-	not used
8	-	not used

C1178

12A581

Trailer tow relay, reversing lamp



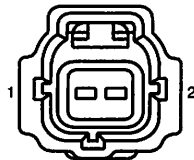
FEMALE

Pin	Circuit	Circuit function
1	140 (BK/PK)	Voltage supplied in reverse
2	57 (BK)	Ground
3	1043 (DG/YE)	Voltage supplied at all times (overload protected)
4	-	not used
5	963 (BK/LG)	Trailer tow relay, reversing lamp, switched output

C1164 (WH)

14B102

Cylinder-head temperature sensor (6G004)



FEMALE

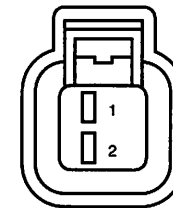
Pin	Circuit	Circuit function
1	1102 (YE/LG)	Cylinder-head temperature sensor (6G004), to, Power-train Control Module (PCM) (12A650)
2	359 (GY/RD)	signal, return

C1181

***12B637** (GY)

9D930 (BK)

Fuel injector 1 (9F593)

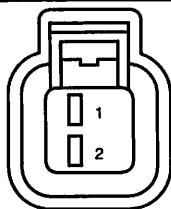


FEMALE

Pin	Circuit	Circuit function
1	555 (TN)	Fuel injector 1, control
2	361 (RD)	Voltage supplied in Start and Run (overload protected)

C1182

*12B637 (GY)
 9D930 (BK)
 Fuel injector 2 (9F593)

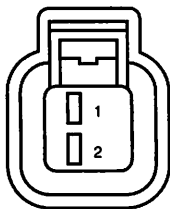


FEMALE

Pin	Circuit	Circuit function
1	556 (WH)	Fuel injector 2, control
2	361 (RD)	Voltage supplied in Start and Run (overload protected)

C1185

*12B637 (GY)
 9D930 (BK)
 Fuel injector 5 (9F593)

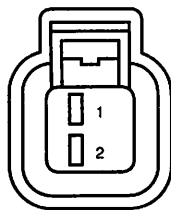


FEMALE

Pin	Circuit	Circuit function
1	559 (TN/BK)	Fuel injector 5, control
2	361 (RD)	Voltage supplied in Start and Run (overload protected)

C1183

*12B637 (GY)
 9D930 (BK)
 Fuel injector 3 (9F593)

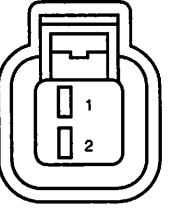


FEMALE

Pin	Circuit	Circuit function
1	557 (BN/YE)	Fuel injector 3, control
2	361 (RD)	Voltage supplied in Start and Run (overload protected)

C1186

*12B637 (GY)
 9D930 (BK)
 Fuel injector 6 (9F593)

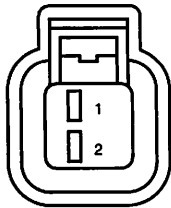


FEMALE

Pin	Circuit	Circuit function
1	560 (LG/OG)	Fuel injector 6, control
2	361 (RD)	Voltage supplied in Start and Run (overload protected)

C1184

*12B637 (GY)
 9D930 (BK)
 Fuel injector 4 (9F593)

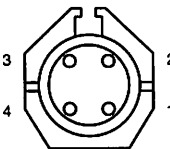


FEMALE

Pin	Circuit	Circuit function
1	558 (BN/LB)	Fuel injector 4, control
2	361 (RD)	Voltage supplied in Start and Run (overload protected)

C1191 (BK)
12B637

Fuel injector 1 (9F593)



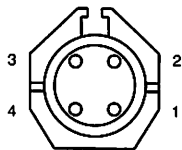
FEMALE

Pin	Circuit	Circuit function
1	4 (WH/BK)	Fuel injector 1 (9F593), open coil, Power
2	3 (LG/WH)	Fuel injector 1 (9F593), open coil, Ground
3	1 (DB)	Fuel injector 1 (9F593), close coil, Power
4	2 (WH/LB)	Fuel injector 1 (9F593), close coil, Ground

C1192 (BK)

12B637

Fuel injector 2 (9F593)



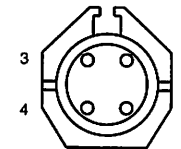
FEMALE

Pin	Circuit	Circuit function
1	20 (WH/LB)	Fuel injector 2 (9F593), open coil, Power
2	19 (LB/RD)	Fuel injector 2 (9F593), open coil, Ground
3	17 (WH)	Fuel injector 2, close coil, Power
4	18 (OG/YE)	Fuel injector 2 (9F593), close coil, Ground

C1195 (BK)

12B637

Fuel injector 5 (9F593)



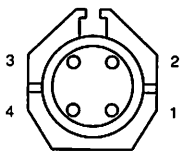
FEMALE

Pin	Circuit	Circuit function
1	24 (DB/OG)	Fuel injector 5 (9F593), open coil, Power
2	23 (TN/LG)	Fuel injector 5 (9F593), open coil, Ground
3	21 (DG/LG)	Fuel injector 5 (9F593), close coil, Power
4	22 (LB/BK)	Fuel injector 5 (9F593), close coil, Ground

C1193 (BK)

12B637

Fuel injector 3 (9F593)



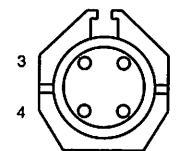
FEMALE

Pin	Circuit	Circuit function
1	28 (BK/PK)	Fuel injector 3 (9F593), open coil, Power
2	27 (OG/LG)	Fuel injector 3 (9F593), open coil, Ground
3	25 (DG/VT)	Fuel injector 3, close coil, Power
4	26 (WH/VT)	Fuel injector 3, close coil, Ground

C1196 (BK)

12B637

Fuel injector 6 (9F593)



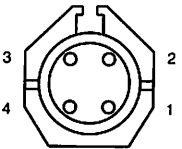
FEMALE

Pin	Circuit	Circuit function
1	16 (RD/LG)	Fuel injector 5 (9F593), open coil, Power
2	15 (RD/YE)	Fuel injector 5 (9F593), open coil, Ground
3	13 (RD/BK)	Fuel injector 5 (9F593), close coil, Power
4	14 (BN)	Fuel injector 5 (9F593), close coil, Ground

C1194 (BK)

12B637

Fuel injector 4 (9F593)



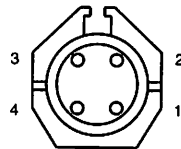
FEMALE

Pin	Circuit	Circuit function
1	33 (WH/PK)	Fuel injector 4 (9F593), close coil, Power
2	7 (LG/YE)	Fuel injector 4 (9F593), close coil, Ground
3	5 (OG/LB)	Fuel injector 4 (9F593), open coil, Power
4	6 (YE/LG)	Fuel injector 4 (9F593), open coil, Ground

C1197 (BK)

12B637

Fuel injector 7 (9F593)



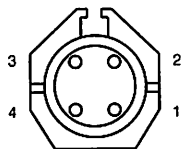
FEMALE

Pin	Circuit	Circuit function
1	12 (LG/BK)	Fuel injector 7 (9F593), open coil, Power
2	11 (TN/YE)	Fuel injector 7 (9F593), open coil, Ground
3	9 (LG/OG)	Fuel injector 7 (9F593), close coil, Power
4	10 (LG/RD)	Fuel injector 7 (9F593), close coil, Ground

C1198 (BK)

12B637

Fuel injector 8 (9F593)



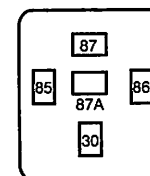
FEMALE

Pin	Circuit	Circuit function
1	32 (RD/LB)	Fuel injector 8 (9F593), open coil, Power
2	31 (WH/RD)	Fuel injector 8 (9F593), open coil, Ground
3	29 (YE/WH)	Fuel injector 8 (9F593), close coil, Power
4	30 (BK/LG)	Fuel injector 8 (9F593), close coil, Ground

C1200

12A581

Trailer tow relay, battery charge



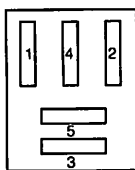
FEMALE

Pin	Circuit	Circuit function
30	175 (BK/YE)	Voltage supplied at all times (overload protected)
85	57 (BK)	Ground
86	295 (LB/PK)	Voltage in Run or Acc (overload protected)
87	49 (OG)	Trailer tow relay, battery charge, switched output
87A	-	not used

C1199

12A581

Trailer tow relay, parking lamp



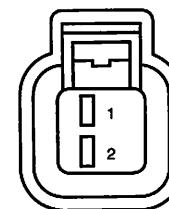
FEMALE

Pin	Circuit	Circuit function
1	14 (BN)	Power, Exterior lamps
2	57 (BK)	Ground
3	1043 (DG/YE)	Voltage supplied at all times (overload protected)
4	-	not used
5	962 (BN/WH)	Trailer tow relay, switched output

C1204 (GY)

12B637

Fuel injector 9 (9F593)



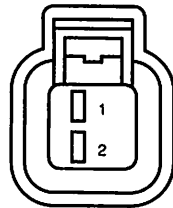
FEMALE

Pin	Circuit	Circuit function
1	1100 (GY/BK)	Fuel injector 9 (9F593), control
2	361 (RD)	Voltage supplied in Start and Run (overload protected)

C1205 (GY)

12B637

Fuel injector 10 (9F593)



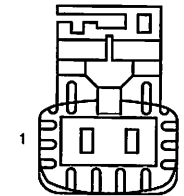
FEMALE

Pin	Circuit	Circuit function
1	1101 (GY/RD)	Fuel injector 10 (9F593), control
2	361 (RD)	Voltage supplied in Start and Run (overload protected)

C1227 (BK)

12A581

Front blower motor (19805)



FEMALE

Pin	Circuit	Circuit function
1	261 (OG/BK)	Front blower motor (19805), output
2	515 (OG/RD)	Blower motor relay, switched output

C1206 (BK)

12B637

Coil On Plug (COP) 9



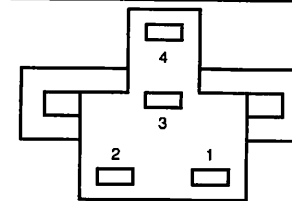
FEMALE

Pin	Circuit	Circuit function
1	16 (RD/LG)	Voltage supplied in Start and Run (overload protected)
2	1141 (YE/BK)	Coil On Plug (COP) 9, control

C1228 (WH)

12A581

Blower motor resistor



FEMALE

Pin	Circuit	Circuit function
1	261 (OG/BK)	Front blower motor (19805), output
2	269 (LB/OG)	medium high
3	57 (BK)	Ground
4	260 (RD/OG)	medium high

C1207 (BK)

12B637

Coil On Plug (COP) 10



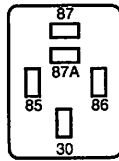
FEMALE

Pin	Circuit	Circuit function
1	16 (RD/LG)	Voltage supplied in Start and Run (overload protected)
2	1142 (WH/RD)	Coil On Plug (COP) 10, control

C1235

12A581

Fuel injector control module (FICM) power relay



FEMALE

Pin	Circuit	Circuit function
30	1139 (VT/YE)	Voltage supplied at all times (overload protected)
85	190 (WH/OG)	Relay, control
86	361 (RD)	Voltage supplied at all times (overload protected)
87	876 (DG/LG)	Fuel injector control module (FICM) relay
87A	-	not used

C1244 (BK)

18074/63C91

Injection Control Pressure (ICP) sensor



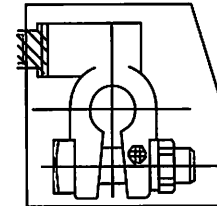
FEMALE

Pin	Circuit	Circuit function
A	359 (GY/RD)	Signal return
B	351 (BN/WH)	Reference voltage
C	812 (DB/LG)	Injection Control Pressure (ICP) sensor, to, Powertrain Control Module (PCM) (12A650)

C1249a

14B060/14A280

Battery II



FEMALE

Pin	Circuit	Circuit function
1	2037 (RD)	Battery cable +

C1236 (GY)

12B637

Manifold Air Temperature (MAT) sensor



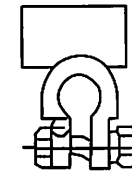
FEMALE

Pin	Circuit	Circuit function
1	359 (GY/RD)	Sensor signal return
2	42 (RD/WH)	Manifold air temperature sensor, input

C1249b

14B060

Battery II



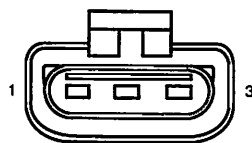
FEMALE

Pin	Circuit	Circuit function
1	2057 (BK)	Battery cable (-)
	2057 (BK)	Battery cable (-)

C1251a (BK)

14305

Generator, secondary



FEMALE

Pin	Circuit	Circuit function
1	1183 (WH/YE)	Alternator power swt module- Rear EHC Voltage monitor (REHCV)
2	-	not used
3	35 (OG/LB)	Voltage supplied at all times (overload protected)

C1251b

10K304

Generator, secondary



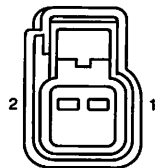
FEMALE

Pin	Circuit	Circuit function
B+	2037 (RD)	Voltage supplied at all times (overload protected)

C1253 (BK)

9A340

Fuel pump



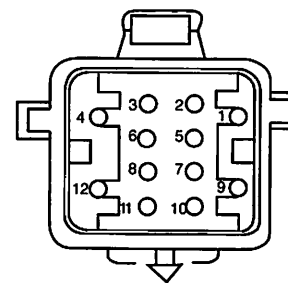
MALE

Pin	Circuit	Circuit function
1	866 (WH)	Fuel pump, Power
2	57 (BK)	Ground

C1254 (BK)

Natural Gas Vehicle
(NGV) timer jumper

12A581



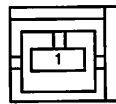
FEMALE

Pin	Circuit	Circuit function
1	570 (BK/WH)	Ground
2	875 (BK/LB)	Ground
3	875 (BK/LB)	Signal Ground
4	570 (BK/WH)	Ground
5	32 (RD/LB)	not used
6	-	not used
7	-	not used
8	-	not used
9	16 (RD/LG)	Voltage supplied in Start and Run (overload protected)
10	-	not used
11	-	not used
12	16 (RD/LG)	Voltage supplied in Start and Run (overload protected)

C1256 (BK)

14290/12A581

Horn



FEMALE

Early Production



FEMALE

Late Production

* late production

Pin	Circuit	Circuit function
1	6 (YE/LG)	Horn relay, switched power, output
	*57 (BK)	Ground
2	*6 (YE/LG)	Horn relay, switched power, output

C1271 (BK)

12B637

Exhaust Back Pressure (EBP) sensor



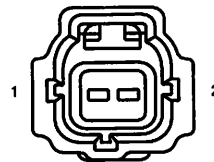
FEMALE

Pin	Circuit	Circuit function
A	359 (GY/RD)	Reference voltage
B	351 (BN/WH)	Signal return
C	553 (VT/LB)	Exhaust Back Pressure (EBP) sensor to Powertrain Control Module (PCM) (12A650)

C1257 (BK)

12B637

Fuel rail temperature sensor



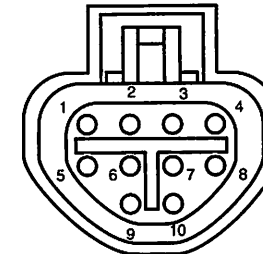
FEMALE

Pin	Circuit	Circuit function
1	1164 (LB)	Engine controls, Gas temperature sensor (CNG), Temperature
2	1163 (BN)	Signal return

C1274 (WH)

7C078

4R70E/4R75E
Transmission



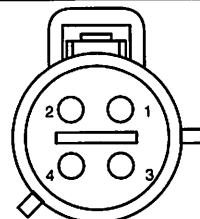
FEMALE

Pin	Circuit	Circuit function
1	361 (RD)	Voltage supplied in Start and Run (overload protected)
2	480 (VT/YE)	Torque Converter Clutch (TCC) solenoid
3	359 (GY/RD)	Signal return
4	-	not used
5	315 (VT/OG)	Shift solenoid B
6	237 (OG/YE)	Shift solenoid A
7	925 (WH/YE)	Injector pressure sensor, input
8	923 (OG/BK)	Transmission Fluid Temperature (TFT) sensor, input
9	-	not used
10	-	not used

C1258 (BK)

12B637

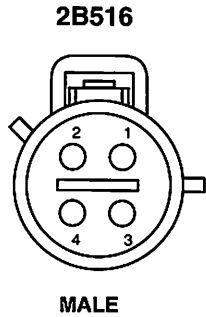
Fuel rail cutoff valve



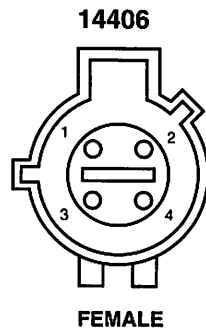
MALE

Pin	Circuit	Circuit function
1	57 (BK)	Ground
2	-	not used
3	866 (WH)	Fuel pump, Power
4	-	not used

C1278 (GY)



- (1) 514 (YE/RD)
- (2) 516 (YE/BK)

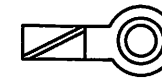


- (3) 522 (TN/BK)
- (4) 521 (TN/OG)

C1283b

14A346

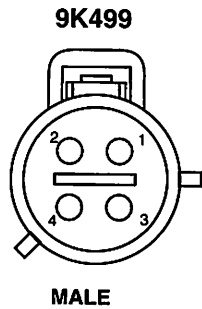
Auxiliary battery relay



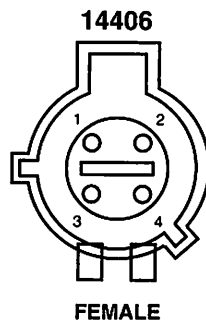
FEMALE

Pin	Circuit	Circuit function
30	326 (WH/VT)	Voltage supplied at all times (overload protected)

C1279 (BU)



- (1) 389 (WH/BK)
- (2) 361 (RD)

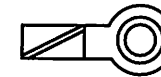


- (3) 392 (RD/LG)
- (4) 359 (GY/RD)

C1283c

14A346/14300

Auxiliary battery relay



FEMALE

Pin	Circuit	Circuit function
87	3258 (RD/YE)	Battery cable +

C1283a

14A346

Auxiliary battery relay



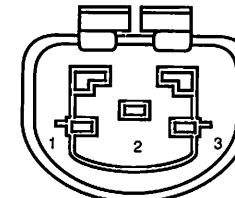
FEMALE

Pin	Circuit	Circuit function
86	296 (WH/VT)	Voltage in Run (overload protected)

C1284 (BK)

14290

Headlamp, left (13008)



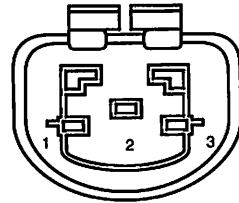
FEMALE

Pin	Circuit	Circuit function
1	12 (LG/BK)	Power, Hot with High Beams on
2	57 (BK)	Ground
3	160 (DB/WH)	Power, Hot with Low Beams on

C1285 (BK)

14290

Headlamp, right (13008)



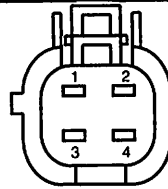
FEMALE

Pin	Circuit	Circuit function
1	12 (LG/BK)	Power, Hot with High Beams on
2	57 (BK)	Ground
3	161 (DG/OG)	Power, Hot with Low Beams on

C1286 (GY)

9D930

Intake Manifold
Runner Control
(IMRC) module



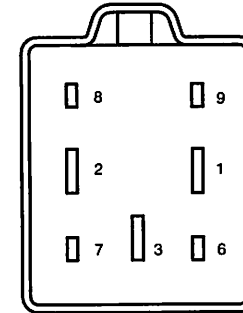
FEMALE

Pin	Circuit	Circuit function
1	57 (BK)	Ground
2	1023 (DB/LG)	Intake Manifold Runner Control (IMRC) module, to, Powertrain Control Module (PCM) (12A650)
3	1022 (DB/YE)	Intake Manifold Runner Control (IMRC) module, monitor
4	361 (RD)	Voltage supplied in Start and Run (overload protected)

C1301a (GN)

12B637

Glow plug control
module (GPCM)



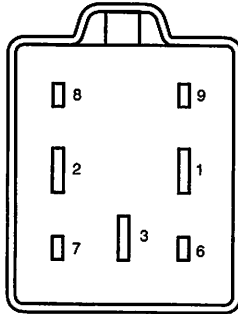
FEMALE

Pin	Circuit	Circuit function
1	150 (DG/WH)	Glow plug 5, control
2	170 (RD/LB)	Glow plug 7, control
3	38 (BK/OG)	Voltage supplied at all times (overload protected)
6	110 (WH/LG)	Glow plug 1, control
7	130 (RD/LG)	Glow plug 3, control
8	1086 (VT/OG)	Glow plug control module (GPCM) to Powertrain Control Module (PCM) (12A650), control
9	1277 (WH/LG)	Glow plug control module (GPCM) to Powertrain Control Module (PCM) (12A650), monitor

C1301b (BN)

12B637

Glow plug control module (GPCM)



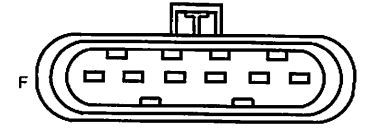
FEMALE

Pin	Circuit	Circuit function
1	160 (DB/WH)	Glow plug 6, control
2	180 (RD)	Glow plug 8, control
3	38 (BK/OG)	Voltage supplied at all times (overload protected)
6	120 (PK/LG)	Glow plug 2, control
7	140 (BK/PK)	Glow plug 4, control
8	-	not used
9	361 (RD)	Voltage supplied in Start and Run (overload protected)

C1302 (BK)

12B637

Throttle Position Sensor (TPS) (9B989)



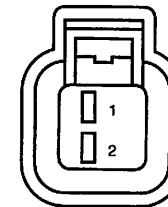
FEMALE

Pin	Circuit	Circuit function
A	351 (BN/WH)	Reference voltage
B	359 (GY/RD)	Sensor signal return
C	73 (OG/LB)	Throttle position sensor signal
D	-	not used
E	-	not used
F	-	not used

C1312 (GY)

12B637

Fuel injector 7 (9F593)



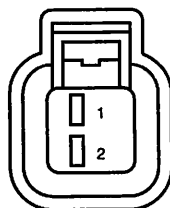
FEMALE

Pin	Circuit	Circuit function
1	561 (TN/RD)	Fuel injector 7, control
2	361 (RD)	Voltage supplied in Start and Run (overload protected)

C1313 (GY)

12B637

Fuel injector 8 (9F593)



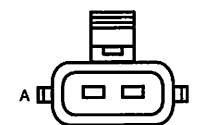
FEMALE

Pin	Circuit	Circuit function
1	562 (LB)	Fuel injector 8, control
2	361 (RD)	Voltage supplied in Start and Run (overload protected)

C1368 (BK)

12B637

Electronic Throttle Control (ETC)



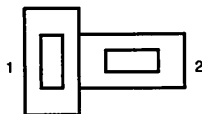
FEMALE

Pin	Circuit	Circuit function
A	355 (GY/WH)	Electronic Throttle Control (ETC)
B	357 (YE/WH)	Electronic Throttle Control (ETC)

C1319

12A581

Alternative fuel control module (AFCM) diode



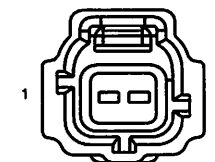
FEMALE

Pin	Circuit	Circuit function
1	866 (WH)	Inertia switch to module
2	57 (BK)	Ground

C1375 (BK)

14406

Camshaft position sensor (6B288)



FEMALE

Pin	Circuit	Circuit function
1	50 (RD)	Camshaft position sensor (6B288), Sensor signal +
2	49 (OG)	Camshaft position sensor (6B288), Sensor signal -

C1360 (BK)

9D930

Injector pressure regulator (IPR)

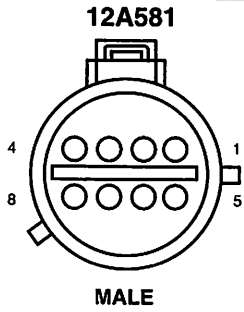


A B

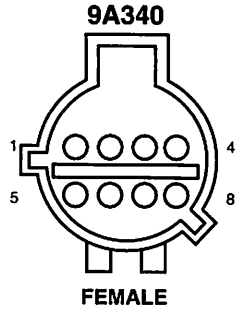
FEMALE

Pin	Circuit	Circuit function
A	361 (RD)	Voltage supplied in Start and Run (overload protected)
B	552 (YE/RD)	Switched ground

C1386 (GY)



MALE



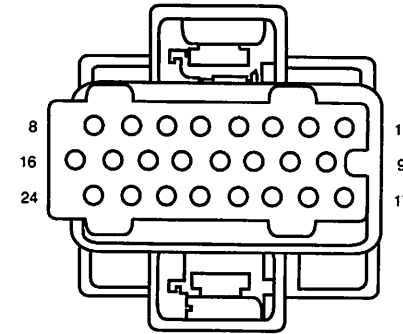
FEMALE

- (1) -
- (2) 57 (BK)
- (3) 866 (WH)
- (4) 16 (RD/LG)
- (5) -
- (6) -
- (7) 359 (GY/RD)
- (8) 1280 (GY/RD)

C1388a (BK)

12B637

Fuel Injector Control
Module (FICM)



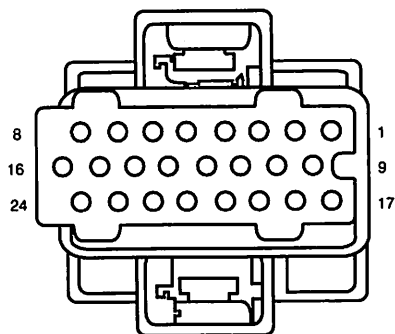
FEMALE

Pin	Circuit	Circuit function
1	7 (LG/YE)	Fuel injector 4, open coil, Ground
2	3 (LG/WH)	Fuel injector 1, open coil, Ground
3	11 (TN/YE)	Fuel injector 7, open coil, Ground
4	15 (RD/YE)	Fuel injector 6, open coil, Ground
5	2 (WH/LB)	Fuel injector 1, close coil, Ground
6	6 (YE/LG)	Fuel injector 4, close coil, Ground
7	14 (BN)	Fuel injector 6, close coil, Ground
8	10 (LG/RD)	Fuel injector 7, close coil, Ground
9	-	not used
10	-	not used
11	-	not used
12	-	not used
13	-	not used
14	-	not used
15	-	not used
16	-	not used
17	12 (LG/BK)	Fuel injector 7, open coil, Power
18	9 (LG/OG)	Fuel injector 7, close coil, Power
19	4 (WH/BK)	Fuel injector 1, open coil, Power
20	1 (DB)	Fuel injector 1, close coil, Power
21	16 (RD/LG)	Fuel injector 6, open coil, Power
22	13 (RD/BK)	Fuel injector 6, close coil, Power
23	33 (WH/PK)	Fuel injector 4, open coil, Power
24	5 (OG/LB)	Fuel injector 4, close coil, Power

C1388b (BK)

12B637

Fuel Injector Control
Module (FICM)

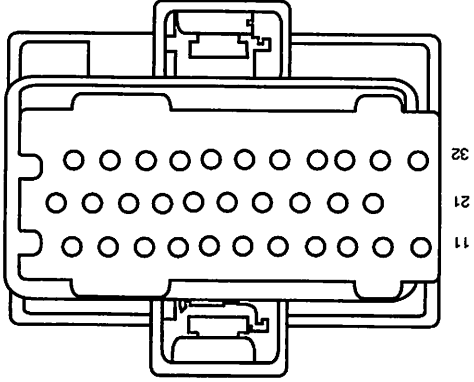


FEMALE

Pin	Circuit	Circuit function
1	23 (TN/LG)	Fuel injector 5, open coil, Ground
2	19 (LB/RD)	Fuel injector 2, open coil, Ground
3	31 (WH/RD)	Fuel injector 8, open coil, Ground
4	27 (OG/LG)	Fuel injector 3, open coil, Ground
5	22 (LB/BK)	Fuel injector 5, close coil, Ground
6	18 (OG/YE)	Fuel injector 2, close coil, Ground
7	30 (BK/LG)	Fuel injector 8, close coil, Ground
8	26 (WH/VT)	Fuel injector 3, close coil, Ground
9	-	not used
10	-	not used
11	-	not used
12	-	not used
13	-	not used
14	-	not used
15	-	not used
16	-	not used
17	20 (WH/LB)	Fuel injector 2, open coil, Power
18	17 (WH)	Fuel injector 2, close coil, Power
19	28 (BK/PK)	Fuel injector 3, open coil, Power
20	25 (DG/VT)	Fuel injector 3, close coil, Power
21	24 (DB/OG)	Fuel injector 5, open coil, Power
22	21 (DG/LG)	Fuel injector 5, close coil, Power
23	32 (RD/LB)	Fuel injector 8, open coil, Power
24	29 (YE/WH)	Fuel injector 8, close coil, Power

C1388C
(BK)
12B637

Fuel Injector Control
Module (FICM)



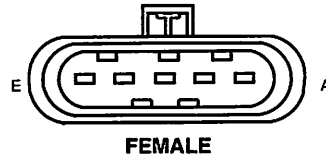
Pin	Circuit	Circuit function
1	574 (BK/PK)	Ground
2	574 (BK/PK)	Ground
3	574 (BK/PK)	Ground
4	876 (DG/LG)	Fuel Injector Control Module (FICM) power relay, switched power, fused feed
5	54 (LG/YE)	Fuel delivery command
6	-	not used
7	1717 (VT/OG)	Voltage supplied in Start and Run (overload protected)
8	814 (WH/BK)	Fuel Injector Control Module (FICM) power relay, switched power, fused feed
9	878 (PK/YE)	Powertrain Control Systems, Communication
10	56 (DB/OG)	Cylinder identification
11	-	not used
12	-	not used
13	-	not used
14	-	not used
15	-	not used
16	-	not used

Pin	Circuit	Circuit function
17	-	not used
18	-	not used
19	-	not used
20	-	not used
21	-	not used
22	574 (BK/PK)	Ground
23	876 (DG/LG)	Fuel Injector Control Module (FICM) power relay, switched power
24	876 (DG/LG)	Fuel Injector Control Module (FICM) power relay, switched power
25	876 (DG/LG)	Fuel Injector Control Module (FICM) power relay, control
26	574 (BK/PK)	Ground
27	3098 (RD/YE)	Fuel Injector Control Module (FICM) power relay, switched power
28	-	not used
29	-	not used
30	69 (RD/LG)	CAN Bus 2H
31	70 (LB/WH)	CAN Bus 2L
32	48 (BK)	Drain wire

C1389 (BK)

12B637

EGR valve actuator



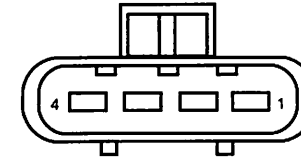
FEMALE

Pin	Circuit	Circuit function
A	33 (WH/PK)	EGR valve actuator, control
B	359 (GY/RD)	Signal return
C	34 (LB/OG)	position sense
D	351 (BN/WH)	Reference voltage
E	361 (RD)	PCM power relay, switched power

C1414 (BK)

12B637

Glow plug bank, right



MALE

Pin	Circuit	Circuit function
1	110 (WH/LG)	Glow plug feed
2	130 (RD/LG)	Glow plug feed
3	150 (DG/WH)	Glow plug feed
4	170 (RD/LB)	Glow plug feed

C1390 (BK)

12B637

Variable geometric turbo actuator



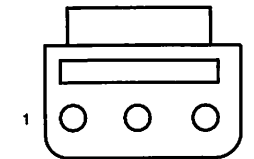
FEMALE

Pin	Circuit	Circuit function
A	43 (DB)	Variable geometric turbo actuator, common
B	41 (BK/LB)	Variable geometric turbo actuator, control

C2008 (BK)

14401

Brake shift interlock



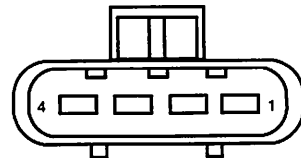
FEMALE

Pin	Circuit	Circuit function
1	569 (DG)	Brake pedal position switch (13480), to stoplamps
2	57 (BK)	Ground
3	294 (WH/LB)	Voltage in Run (overload protected)

C1413 (BK)

12B637

Glow plug bank, left



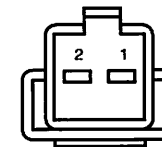
MALE

Pin	Circuit	Circuit function
1	120 (PK/LG)	Glow plug feed
2	140 (BK/PK)	Glow plug feed
3	160 (DB/WH)	Glow plug feed
4	180 (RD)	Glow plug feed

C2015 (BK)

14401

Parking brake switch (15A851)



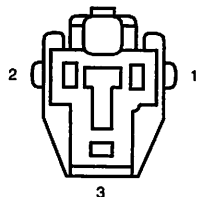
FEMALE

Pin	Circuit	Circuit function
1	162 (LG/RD)	Parking brake switch (15A851)
2	57 (BK)	Ground

C2031 (TN)

14401

Cigar lighter,
front (15055)



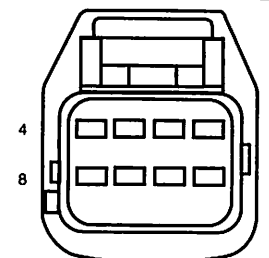
FEMALE

Pin	Circuit	Circuit function
1	40 (LB/WH)	Cigar lighter, feed
2	-	not used
3	57 (BK)	Ground

C2040 (GY)

14A200

Accelerator pedal
position sensor



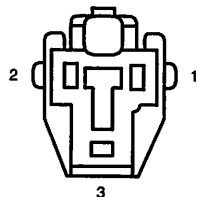
FEMALE

Pin	Circuit	Circuit function
1	359 (GY/RD)	Sensor signal return
2	1283 (TN/YE)	Accelerator pedal sensor 1 signal
3	3011 (BK/OG)	Accelerator pedal sensor return
4	-	not used
5	3012 (WH)	Accelerator pedal sensor 2 signal
6	3010 (TN)	Accelerator pedal sensor power
7	351 (BN/WH)	Power to engine sensors
8	3015 (WH/RD)	Accelerator pedal sensor 3 signal

C2033 (BK)

14401

Power point (19N236)



FEMALE

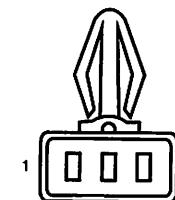
Pin	Circuit	Circuit function
1	1049 (BN/PK)	Cigar lighter, feed
2	-	not used
3	57 (BK)	Ground

C2135 (BK)

14401

Overdrive cancel
switch (7G550)

** Tow/Haul
switch (7G550)



MALE

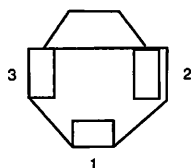
** Diesel

Pin	Circuit	Circuit function
1	911 (WH/LG)	Transmission Control Indicator Lamp (TCIL)
2	640 (RD/YE)	Voltage supplied in Start and Run (overload protected)
3	224 (TN/WH)	PCM, to transmission overdrive cancel switch

C2141 (BK)

14401/14A200

Electronic flasher module



FEMALE

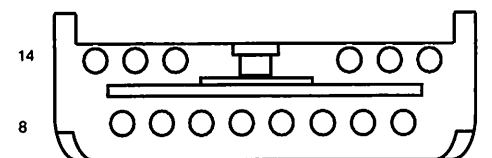
Pin	Circuit	Circuit function
1	44 (LB)	Turn signal flasher, to turn signal switch
2	57 (BK)	Ground
3	385 (WH/RD)	Voltage supplied at all times (overload protected)

*Stripped chassis

C2157 (WH)

14401

Wiper Control Module (WCM)



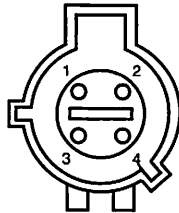
FEMALE

Pin	Circuit	Circuit function
1	589 (OG)	wiper, (front wiper), Intermittent wiper circuit
2	65 (DG)	Voltage in Run or Accessory (overload protected)
3	938 (BK/LG)	Ground
	*875 (BK/LB)	Ground
4	941 (BK/WH)	Windshield washer pump motor (17618), feed
5	938 (BK/LG)	Ground
	*875 (BK/LB)	Ground
6	-	not used
7	993 (BN/WH)	Wiper switch circuit, (front wiper), Intermittent wiper circuit
8	56 (DB/OG)	Wiper Control Module (WCM), output, Low
9	590 (DB/WH)	Wiper/washer switch, Intermittent wiper circuit
10	61 (YE/RD)	Wiper Control Module (WCM), to, Windshield wiper motor (17508)
11	65 (DG)	Voltage in Run or Accessory (overload protected)
12	-	not used
13	28 (BK/PK)	Wiper Control Module (WCM), to, Windshield wiper motor (17508)
14	58 (WH)	Wiper Control Module (WCM), to, Windshield wiper motor (17508)

C2176 (BK)

14A200

Auxiliary Powertrain
Control Module (APCM)



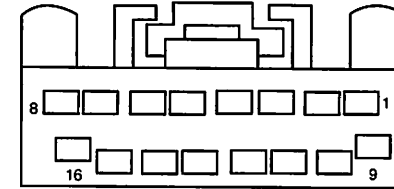
FEMALE

Pin	Circuit	Circuit function
1	914 (TN/OG)	SCP Bus +
2	1205 (BK)	Ground
3	915 (PK/LB)	SCP Bus -
4	16 (RD/LG)	Voltage supplied in Start and Run (overload protected)

C2188a (BK)

14401

Radio (18806)



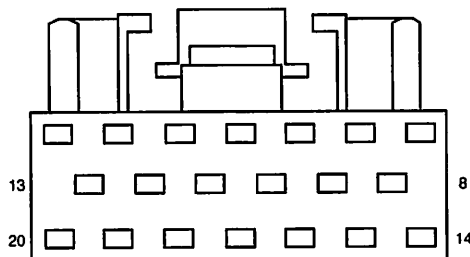
FEMALE

Pin	Circuit	Circuit function
1	19 (LB/RD)	Instrument illumination, feed
2	57 (BK)	Ground
3	1000 (RD/BK)	Voltage supplied in Start (overload protected)
4	-	not used
5	802 (OG/RD)	Speaker, right rear (18808) +
	*825 (TN/LG)	Speaker, right rear (18808) +
6	803 (BN/PK)	Speaker, right rear (18808) -
7	805 (WH/LG)	Speaker, right front (18808) +
8	811 (DG/OG)	Speaker, right front (18808) -
9	729 (RD/WH)	Voltage supplied at all times (overload protected)
10	137 (YE/BK)	Voltage in Run or Accessory (overload protected)
11	694 (BK/LG)	Ground
12	800 (GY/LB)	Speaker, left rear (18808) +
	*827 (TN/WH)	Speaker, left rear (18808) +
13	801 (TN/YE)	Speaker, left rear (18808) +
14	804 (OG/LG)	Speaker, left front (18808) +
15	813 (LB/WH)	Speaker, left front (18808) -
16	694 (BK/LG)	Ground

C2188b (BK)

14401

Radio (18806)



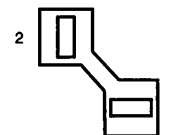
FEMALE

Pin	Circuit	Circuit function
1	-	not used
2	-	not used
3	-	not used
4	-	not used
5	1068 (LG/BK)	Audio System ON (ASYSON)
6	832 (LB/PK)	Audio corporate protocol (A)
7	833 (TN)	Audio corporate protocol (B)
8	-	not used
9	-	not used
10	-	not used
11	-	not used
12	-	not used
13	48	shield
14	-	not used
15	-	not used
16	-	not used
17	1561 (OG)	Rear Seat Entertainment (RSE) module to Radio (18806), Right +
18	1562 (YE)	Rear Seat Entertainment (RSE) module to Radio (18806), Right -
19	1559 (RD)	Rear Seat Entertainment (RSE) module to Radio (18806), Left +
20	1560 (WH)	Rear Seat Entertainment (RSE) module to Radio (18806), Left -

C2252 (BK)

14A200

Grote flasher module



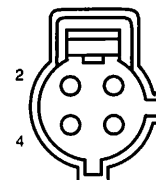
FEMALE

Pin	Circuit	Circuit function
1	44 (LB)	Turn signal flasher to turn signal switch
2	385 (WH/RD)	Voltage supplied at all times (overload protected)

C2256 (GY)

14A200

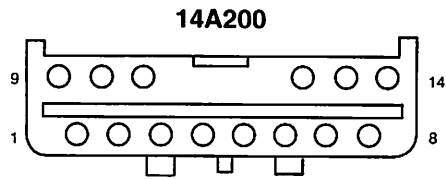
Barometric absolute pressure sensor (BAP)



FEMALE

Pin	Circuit	Circuit function
1	359 (GY/RD)	Sensor signal return
2	351 (BN/WH)	Power to engine sensors
3	356 (DB/LG)	Barometric pressure feed
4	-	not used

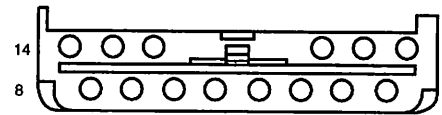
C3007 (GY)



MALE

- | | |
|------------------|------------------|
| (1) 803 (BN/PK) | (8) 802 (OG/RD) |
| (2) 1034 (BK/WH) | *825 (TN/LG) |
| (3) 628 (WH) | (9) - |
| (4) 729 (RD/WH) | (10) 117 (PK/BK) |
| (5) - | (11) - |
| (6) - | (12) - |
| (7) 118 (PK/OG) | (13) 57 (BK) |
| | (14) - |

14014



FEMALE

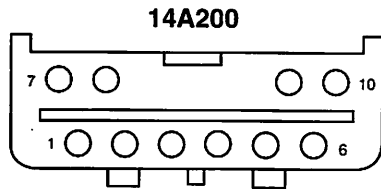
- | | |
|-----------------|-------------------|
| (1) 803 (BN/PK) | (8) 802 (OG/RD) |
| (2) 53 (BK/LB) | (9) - |
| (3) 628 (WH) | (10) 117 (PK/BK) |
| (4) - | (11) - |
| (5) - | (12) - |
| (6) - | (13) **54 (LG/YE) |
| (7) 118 (PK/OG) | *** 57 (BK) |
| | (14) - |

* with rear seat entertainment

** with hinged side door

*** with sliding side door

C3047 (BK)

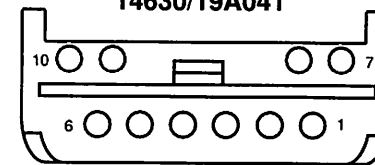


MALE

- | | | |
|-----------------|------------------|------------------|
| (1) 544 (VT) | (5) *120 (PK/LG) | (8) 542 (YE) |
| (2) 170 (RD/LB) | 517 (BK/WH) | (9) 119 (PK/YE) |
| (3) 314 (TN/LB) | (6) - | (10) 117 (PK/BK) |
| (4) 313 (WH/YE) | (7) 543 (DG) | |

* with remote keyless entry

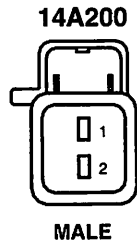
14630/19A041



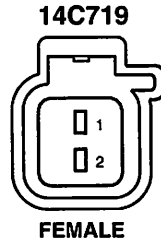
FEMALE

- | | | |
|-----------------|------------------|------------------|
| (1) 544 (VT) | (5) *120 (PK/LG) | (8) 542 (YE) |
| (2) 170 (RD/LB) | 517 (BK/WH) | (9) 119 (PK/YE) |
| (3) 314 (TN/LB) | (6) - | (10) 117 (PK/BK) |
| (4) 313 (WH/YE) | (7) 543 (DG) | |

C3006 (YE)



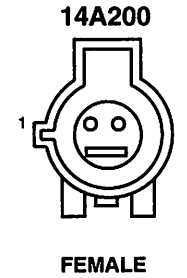
MALE



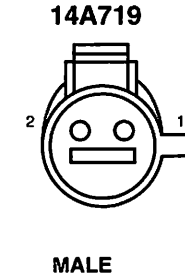
FEMALE

- (1) 1082 (LB/BK)
- (2) 1081 (YE/RD)

C3050 (BK)



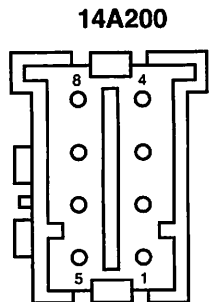
FEMALE



MALE

- (1) 566 (DG)
- (2) 57 (BK)

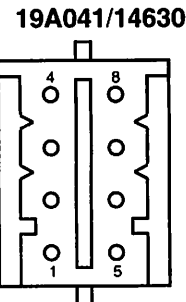
C3049 (GY)



MALE

- (1) 805 (WH/LG)
- (2) 811 (DG/OG)
- (3) **1296 (DG/BK)
- ***123 (RD)
- (4) **1297 (YE/RD)
- ***124 (BN)
- (5) -
- (6) 118 (PK/OG)
- (7) 57 (BK)
- (8) -

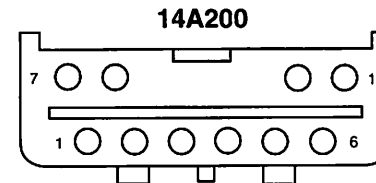
- * modified vehicle
- ** without remote keyless entry
- *** cutaway with power locks



FEMALE

- (1) 805 (WH/LG)
- *804 (OG/LG)
- (2) 811 (DG/OG)
- *813 (LB/WH)
- (3) **123 (RD)
- (4) **124 (BN)
- (5) -
- (6) 118 (PK/OG)
- (7) 57 (BK)
- (8) -

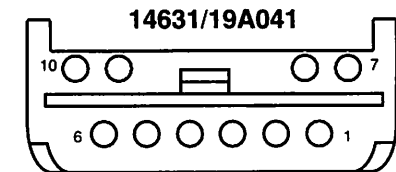
C3051 (BK)



MALE

- (1) 544 (VT)
- (2) 170 (RD/LB)
- (3) 314 (TN/LB)
- (4) 313 (WH/YE)
- (5) 517 (BK/WH)
- *120 (PK/LG)
- (6) 956 (OG/LG)
- (7) 543 (DG)
- (8) 542 (YE)
- (9) 1296 (OG/BK)
- *119 (PK/YE)
- **123 (RD)
- (10) 117 (PK/BK)

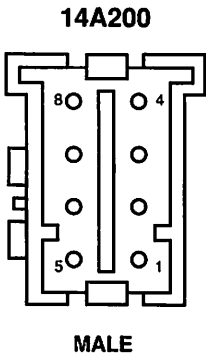
- * with remote keyless entry
- ** cutaway with power locks



FEMALE

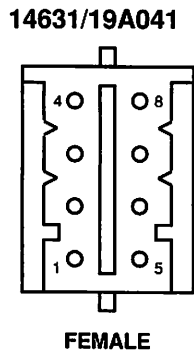
- (1) 544 (VT)
- (2) 170 (RD/LB)
- (3) 314 (TN/LB)
- (4) 313 (WH/YE)
- (5) 517 (BK/WH)
- *120 (PK/LG)
- (6) 956 (OG/LG)
- (7) 543 (DG)
- (8) 542 (YE)
- (9) *119 (PK/YE)
- 1296 (OG/BK)
- (10) 117 (PK/BK)

C3052 (GY)



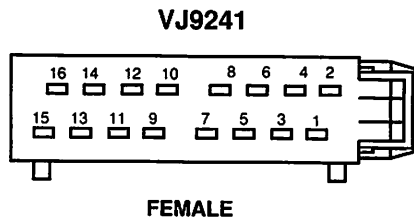
- (1) 804 (OG/LG)
- (2) 813 (LB/WH)
- (3) 123 (RD)
- **118 (PK/OG)
- (4) 124 (BN)
- **117 (PK/BK)
- (5) 1297 (YE/RD)
- **124 (BN)
- (6) 118 (PK/OG)
- *163 (RD/OG)
- (7) 57 (BK)
- (8) -

* with remote keyless entry
 ** cutaway with power locks

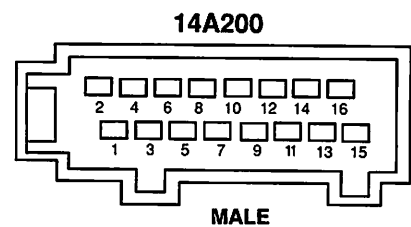


- (1) 804 (OG/LG)
- (2) 813 (LB/WH)
- (3) 123 (RD)
- (4) 124 (BN)
- (5) 1297 (YE/RD)
- (6) 118 (PK/OG)
- *163 (RD/OG)
- (7) 57 (BK)
- (8) -

C3053 (GY)



- (1) 57 (BK/LG)
- (2) 57 (BK/LG)
- (3) 57 (BK/LG)
- (4) 15 (TN/WH)
- (5) 25 (GY/LB)
- (6) 35 (TN/YE)
- (7) 45 (TN/LG)
- (8) 55 (OG/RD)
- (9) 65 (BN/PK)
- (10) 19 (LB/RD)
- (11) 19 (BK)
- (12) 75 (LB/PK)
- (13) 85 (TN)
- (14) -
- (15) 16 (LG/PK)
- (16) 20 (LG/BK)

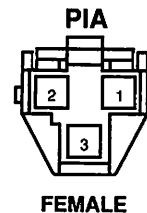


- (1) 694 (BK/LG)
- (2) 694 (BK/LG)
- (3) 694 (BK/LG)
- (4) 800 (GY/LB)
- (5) 827 (TN/WH)
- (6) 801 (TN/YE)
- (7) 802 (OG/RD)
- (8) 825 (TN/LG)
- (9) 803 (BN/PK)
- (10) 19 (LB/RD)
- (11) 57 (BK)
- (12) 832 (LB/PK)
- (13) 833 (TN)
- (14) -
- (15) 729 (RD/WH)
- (16) 1068 (LG/BK)

C3063 (BK)

VJ9241

Power point, console 1

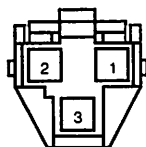


Pin	Circuit	Circuit function
1	16 (BN/PK)	Voltage supplied at all times (overload protected)
2	-	not used
3	57 (BK)	Ground

C3064 (BK)

VJ9241

Power point
console 2



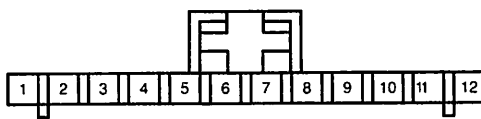
FEMALE

Pin	Circuit	Circuit function
1	16 (RD)	Voltage supplied at all times (overload protected)
2	-	not used
3	57 (BK)	Ground

C3076 (BK)

PIA

Video cassette
player



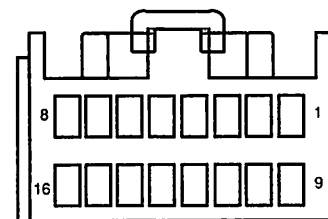
FEMALE

Pin	Circuit	Circuit function
1	57 (BK)	Ground
2	16 (YE/WH)	Voltage supplied at all times (overload protected)
3	18 (BK)	Voltage in Run or Accessory (overload protected)
4	-	not used
5	-	not used
6	255 (PK/DG)	Rear Seat Entertainment (RSE) module to video cassette player
7	245 (YE/RD)	Rear Seat Entertainment (RSE) module to video cassette player
8	235 (BK/LG)	Ground
9	225 (DB/RD)	Rear Seat Entertainment (RSE) module to video cassette player
10	215 (BK/LG)	Ground
11	205 (BK/WH)	Rear Seat Entertainment (RSE) module to video cassette player
12	195 (OG/BK)	Rear Seat Entertainment (RSE) module to video cassette player

C3077a (BK)

PIA

Rear Seat Entertainment
(RSE) module



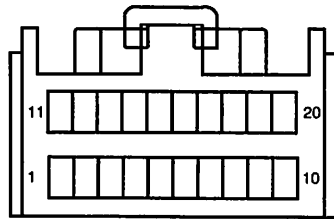
FEMALE

Pin	Circuit	Circuit function
1	57 (BK)	Ground
2	15 (TN/WH)	Speaker, left rear (18808) +
3	25 (GY/LB)	Speaker, left rear (18808) +
4	35 (TN/YE)	Speaker, left rear (18808) -
5	57 (BK)	Ground
6	65 (BN/PK)	Speaker, right rear (18808) -
7	55 (OG/RD)	Speaker, right rear (18808) +
8	45 (TN/LG)	Speaker, right rear (18808) +
9	19 (LB/RD)	Instrument illumination, feed
10	19 (BK)	Ground
11	-	not used
12	75 (LB/PK)	Audio corporate protocol (A)
13	85 (TN)	Audio corporate protocol (A)
14	57 (BK)	Ground
15	16 (LG/PK)	Power choke 1
16	20 (LG/BK)	Audio System ON (ASYSON)

C3077b (BK)

PIA

Rear Seat Entertainment (RSE) module



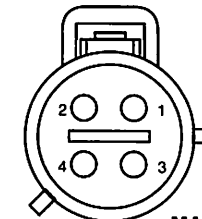
FEMALE

Pin	Circuit	Circuit function
1	115 (VT)	not used
2	125 (LG/RD)	not used
3	135 (GY)	not used
4	145 (OG/BK)	not used
5	-	not used
6	205 (BK/WH)	Rear Seat Entertainment (RSE) module to video cassette player
7	225 (DB/RD)	Rear Seat Entertainment (RSE) module to video cassette player
8	245 (YE/RD)	Rear Seat Entertainment (RSE) module to video cassette player
9	95 (DG)	Ground
10	255 (PK/DG)	Rear Seat Entertainment (RSE) module to video cassette player
11	155 (RD)	Rear Seat Entertainment (RSE) module, to, Radio (18806), Left +
12	165 (WH)	Rear Seat Entertainment (RSE) module, to, Radio (18806), Left -
13	175 (OG)	Rear Seat Entertainment (RSE) module, to, Radio (18806), Right -
14	185 (YE)	Rear Seat Entertainment (RSE) module, to, Radio (18806), Right +
15	-	not used
16	195 (OG/BK)	Rear Seat Entertainment (RSE) module to video cassette player
17	-	not used
18	-	not used
19	-	not used
20	-	not used

C3104 (BK)

14406

Pony tank valve

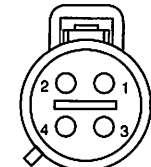


MALE

Pin	Circuit	Circuit function
1	866 (WH)	Inertia switch
2	-	not used
3	57 (BK)	Ground
4	-	not used

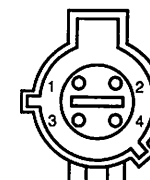
C3122 (BK)

14A655



MALE

14A655



FEMALE

- (1) 57 (BK)
- (2) -
- (3) 787 (PK/BK)
- (4) -

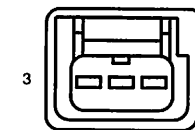
C3123

14406

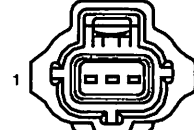
Fuel tank pressure transducer sensor (9C968)

All others

Cutaway/stripped chassis



FEMALE (GY)



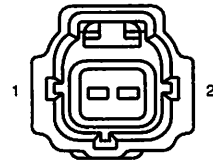
FEMALE (BK)

Pin	Circuit	Circuit function
1	351 (BN/WH)	Reference voltage
2	359 (GY/RD)	Signal return
3	791 (RD/PK)	Fuel tank pressure transducer sensor (9C968)

C3124 (BK)

14406

Fuel tank temperature sensor



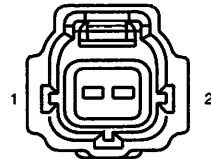
FEMALE

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

C3125 (BK)

14A655

Aft-axle fuel tank valve, front



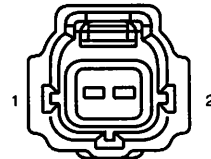
FEMALE

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

C3126 (BK)

14A655

Aft-axle fuel tank valve, rear



FEMALE

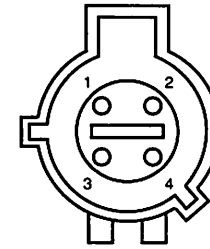
Pin	Circuit	Circuit function
1	787 (PK/BK)	Fuel pump, Power
2	57 (BK)	Ground

C3127 (BK)

14406

Fuel pump module

* Gasoline



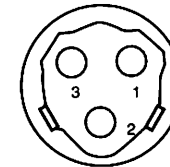
FEMALE

Pin	Circuit	Circuit function
1	*787 (PK/BK)	Fuel pump, Power
2	29 (YE/WH)	Fuel pump/fuel gauge sender
3	651 (BK/YE)	Fuel gauge return
4	*672 (LG/YE)	Fuel tank selector switch (9A050)

C3129 (NA)

14A200

Door ajar switch, left front



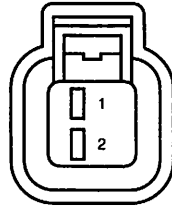
MALE

Pin	Circuit	Circuit function
1	159 (RD/PK)	Door ajar switch, left front, signal
2	57 (BK)	Ground
3	-	not used

C3130 (BK)

14A200

Speaker, left middle

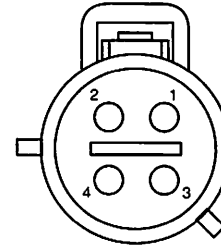


FEMALE

Pin	Circuit	Circuit function
1	800 (GY/LB)	Speaker, left rear (18808) +
2	801 (TN/YE)	Speaker, left rear (18808) -

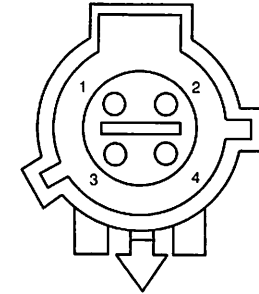
C3134 (WH)

14A200



MALE

14A699



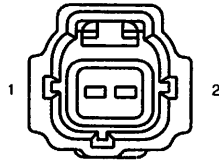
FEMALE

- (1) 1079 (LG/RD)
- (2) 1080 (LG/BK)
- (3) 85 (BN/LB)
- (4) 57 (BK)

C3132 (BK)

14A655

Midship fuel tank valve

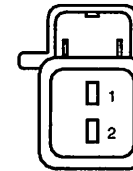


FEMALE

Pin	Circuit	Circuit function
1	866 (WH)	Inertia switch
2	57 (BK)	Ground

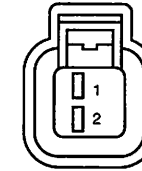
C3135 (YE)

14C719/14A200



MALE

14A699

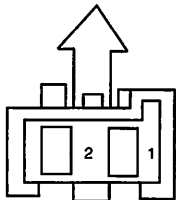


FEMALE

- (1) 1082 (LB/BK)
- (2) 1081 (YE/RD)

C3133 (GY)

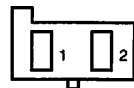
14A699



MALE

- (1) 517 (BK/WH)
- (2) 57 (BK)

14C719

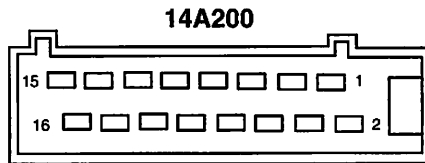


FEMALE

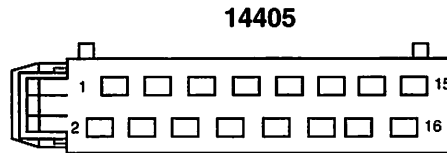
- (1) 566 (DG)
- (2) 57 (BK)

C3136 (BK)

* with rear seat entertainment



MALE



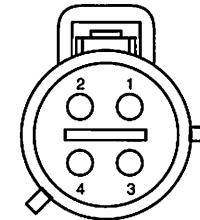
FEMALE

- (1) 5 (OG/LB)
- (2) 9 (LG/OG)
- (3) 54 (LG/YE)
- (4) 53 (BK/LB)
- (5) 803 (BN/PK)
- (6) 802 (OG/RD)
- *825 (TN/LG)
- (7) -
- (8) 1034 (BK/WH)
- (9) 140 (BK/PK)
- (10) 757 (RD/WH)
- (11) 14 (BN)
- (12) 19 (LB/RD)
- (13) -
- (14) -
- (15) 801 (TN/YE)
- (16) 800 (GY/LB)

- (1) 5 (OG/LB)
- (2) 9 (LG/OG)
- (3) 54 (LG/YE)
- (4) 53 (BK/LB)
- (5) 803 (BN/PK)
- (6) 802 (OG/RD)
- (7) -
- (8) 1034 (BK/WH)
- (9) 140 (BK/PK)
- (10) 757 (RD/WH)
- (11) 14 (BN)
- (12) 19 (LB/RD)
- (13) -
- (14) -
- (15) 801 (TN/YE)
- (16) 800 (GY/LB)

C3137 (BK)

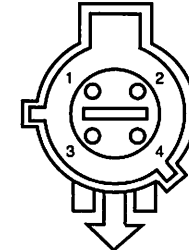
14A655



MALE

- (1) 57 (BK)
- (2)
- (3) 787 (PK/BK)
- (4)

14406

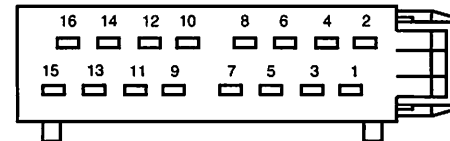


FEMALE

- (1) 57 (BK)
- (2)
- (3) 866 (WH)
- (4)

C3138 (BK)

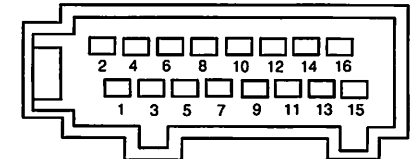
VJ9241



FEMALE

- (1) 95 (DG)
- (2) 105 (BK/LG)
- (3) 48
- (4) 115 (VT)
- (5) 125 (LG/RD)
- (6) 135 (GY)
- (7) 145 (OG/BK)
- (8) 48
- (9) 57 (BK)
- (10) -
- (11) 185 (YE)
- (12) 175 (OG)
- (13) 155 (RD)
- (14) 165 (WH)
- (15) 18 (BK)
- (16) 16 (YE/WH)

14A200

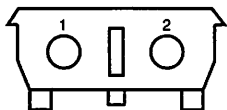


MALE

- (1) 1540 (DG)
- (2) 1541 (DB)
- (3) 48 (BK)
- (4) -
- (5) -
- (6) -
- (7) -
- (8) -
- (9) 694 (BK/LG)
- (10) -
- (11) 1561 (OG)
- (12) 1562 (YE)
- (13) 1559 (RD)
- (14) 1560 (WH)
- (15) 137 (YE/BK)
- (16) 729 (RD/WH)

C3139 (GY)

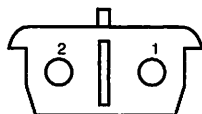
14A200



MALE

- (1) 57 (BK)
- (2) 511 (LG)

13A427



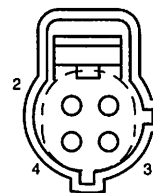
FEMALE

- (1) 511 (LG)
- (2) 511 (LG)

C3166 (BK)

14406

Fuel tank pressure transducer sensor (9C968)



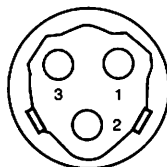
FEMALE

Pin	Circuit	Circuit function
1	1163 (BN)	Signal return
2	1160 (BN/WH)	Reference voltage
3	1161 (DG/OG)	Fuel tank pressure transducer sensor (9C968)
4	-	not used

C3141 (NA)

14A200

Door ajar switch, right front

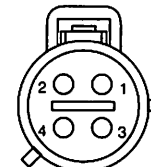


MALE

Pin	Circuit	Circuit function
1	1034 (BK/WH)	Dome lamp switch
2	57 (BK)	Ground
3	-	not used

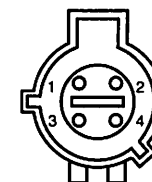
C3176 (BK)

14A655



MALE

14A655

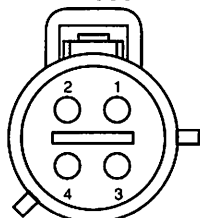


FEMALE

- (1) 57 (BK)
- (2) -
- (3) 787 (PK/BK)
- (4) -

C3149 (BK)

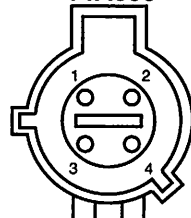
14A655



MALE

- (1) *57 (BK)
- (2)
- (3) *787 (PK/BK)
- (4)

14A655



FEMALE

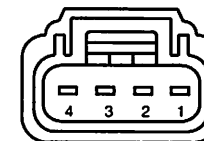
- (1) 57 (BK)
- (2)
- (3) 787 (PK/BK)
- (4)

* With five fuel tanks

C3235 (BK)

14014

Sliding door contact switch, right



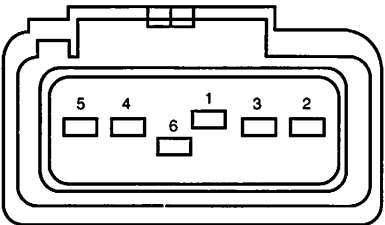
FEMALE

Pin	Circuit	Circuit function
1	803 (BN/PK)	Speaker, right rear (18808)
2	118 (PK/OG)	Door unlock, output
3	117 (PK/BK)	Door lock, output
4	802 (OG/RD)	Speaker, right rear (18808) +

C3239 (BK)

14406

Fuel pump driver module



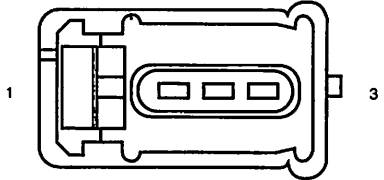
FEMALE

Pin	Circuit	Circuit function
1	928 (LB/RD)	EEC module to modulated fuel pump
2	672 (LG/YE)	Fuel tank selector switch to midship fuel pump
3	396 (BK/OG)	Fuel #1 ground to tachometer gauge module
4	787 (PK/BK)	Fuel pump, Power
5	866 (WH)	Inertia switch to module
6	821 (BN/OG)	Diesel electronic driver fuel delivery CMND signal to EEC module

C4035 (BK)

14405

Park/stop/turn lamp, left rear



FEMALE

Pin	Circuit	Circuit function
1	57 (BK)	Ground
2	14 (BN)	Power, Exterior lamps
3	9 (LG/OG)	Turn lamps, feed, left rear

C4046 (BK)

13412

License plate lamp (13550)



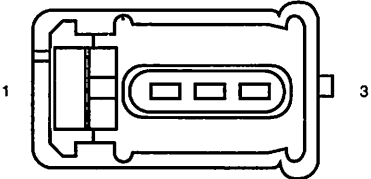
FEMALE

Pin	Circuit	Circuit function
1	57 (BK)	Ground
2	14 (BN)	Power, Exterior lamps

C4032 (BK)

14405

Park/stop/turn lamp, right rear



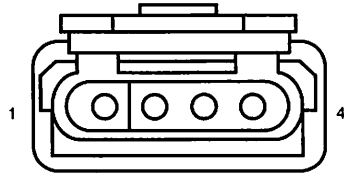
FEMALE

Pin	Circuit	Circuit function
1	57 (BK)	Ground
2	14 (BN)	Power, Exterior lamps
3	5 (OG/LB)	Turn lamps, feed, right rear

C4098 (BK)

13A576

Trailer tow connector, 4-pin



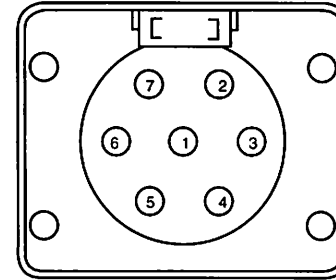
MALE / FEMALE

Pin	Circuit	Circuit function
1	206 (WH)	Ground
2	962 (BN/WH)	Trailer tow relay, parking lamp, switched power
3	52 (YE)	Trailer tow relay, left turn, switched power
4	64 (DG)	Trailer tow relay, right turn, switched power

C4099 (BK)

13A576

Trailer tow connector, 7-pin



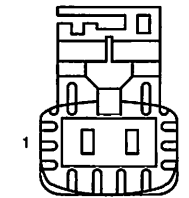
MALE

Pin	Circuit	Circuit function
1	963 (BK/LG)	Trailer tow connector (15A416), Reversing lamps
2	49 (OG)	Voltage in Run (overload protected)
3	64 (DG)	Turn lamps, feed, right rear
4	43 (DB)	Electric trailer brakes
5	206 (WH)	Trailer tow connector (15A416), Ground
6	52 (YE)	Turn lamps, feed, left rear
7	962 (BN/WH)	Trailer tow relay, parking lamp, switched output

C4106 (BK)

19949

Auxiliary blower motor (19805)



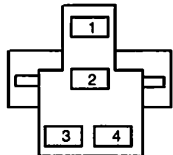
FEMALE

Pin	Circuit	Circuit function
1	261 (OG/BK)	Auxiliary blower motor (19805), output
2	371 (PK/WH)	Rear A/C blower speed relay 1, switched output

C4107 (WH)

19949

Auxiliary blower motor resistor assembly (19A706)



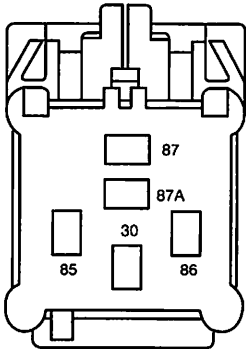
FEMALE

Pin	Circuit	Circuit function
1	752 (YE/RD)	medium low
2	755 (BN/WH)	Low
3	751 (DB/WH)	medium high
4	515 (OG/RD)	Rear A/C blower speed relay 2, switched output

C4118 (BK)

19949

Rear A/C blower speed relay 2



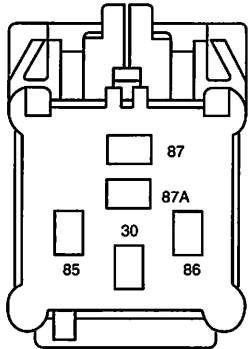
FEMALE

Pin	Circuit	Circuit function
30	261 (OG/BK)	Auxiliary blower motor (19805), output
85	753 (YE/RD)	Function selector switch assembly, front, output
86	757 (RD/WH)	Rear A/C blower speed relay 2, control
87	57 (BK)	Ground
87A	515 (OG/RD)	Rear A/C blower speed relay 2, switched output

C4117 (BK)

19949

Rear A/C blower speed relay 1



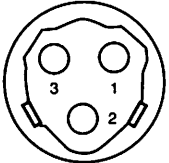
FEMALE

Pin	Circuit	Circuit function
30	884 (YE/BK)	Voltage supplied at all times (overload protected)
85	753 (YE/RD)	Function selector switch assembly, front, output
86	57 (BK)	Ground
87	371 (PK/WH)	Rear A/C blower speed relay 1, switched output
87A	-	not used

C4119 (NA)

14405

Door ajar switch, rear doors



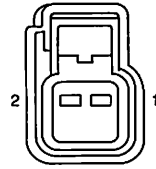
MALE

Pin	Circuit	Circuit function
1	-	not used
2	57 (BK)	Ground
3	1034 (BK/WH)	Dome lamp switch to module

C4120 (BK)

14026

Door lock actuator,
rear doors



FEMALE

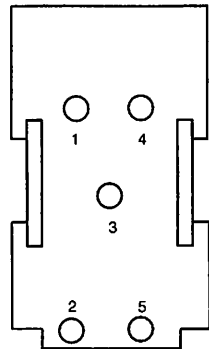
Pin	Circuit	Circuit function
1	117 (PK/BK)	Door lock, output
2	118 (PK/OG)	Door unlock, output

C4121 (GY)

13412

Door lock switch,
rear doors

* with remote keyless entry
** without remote keyless entry

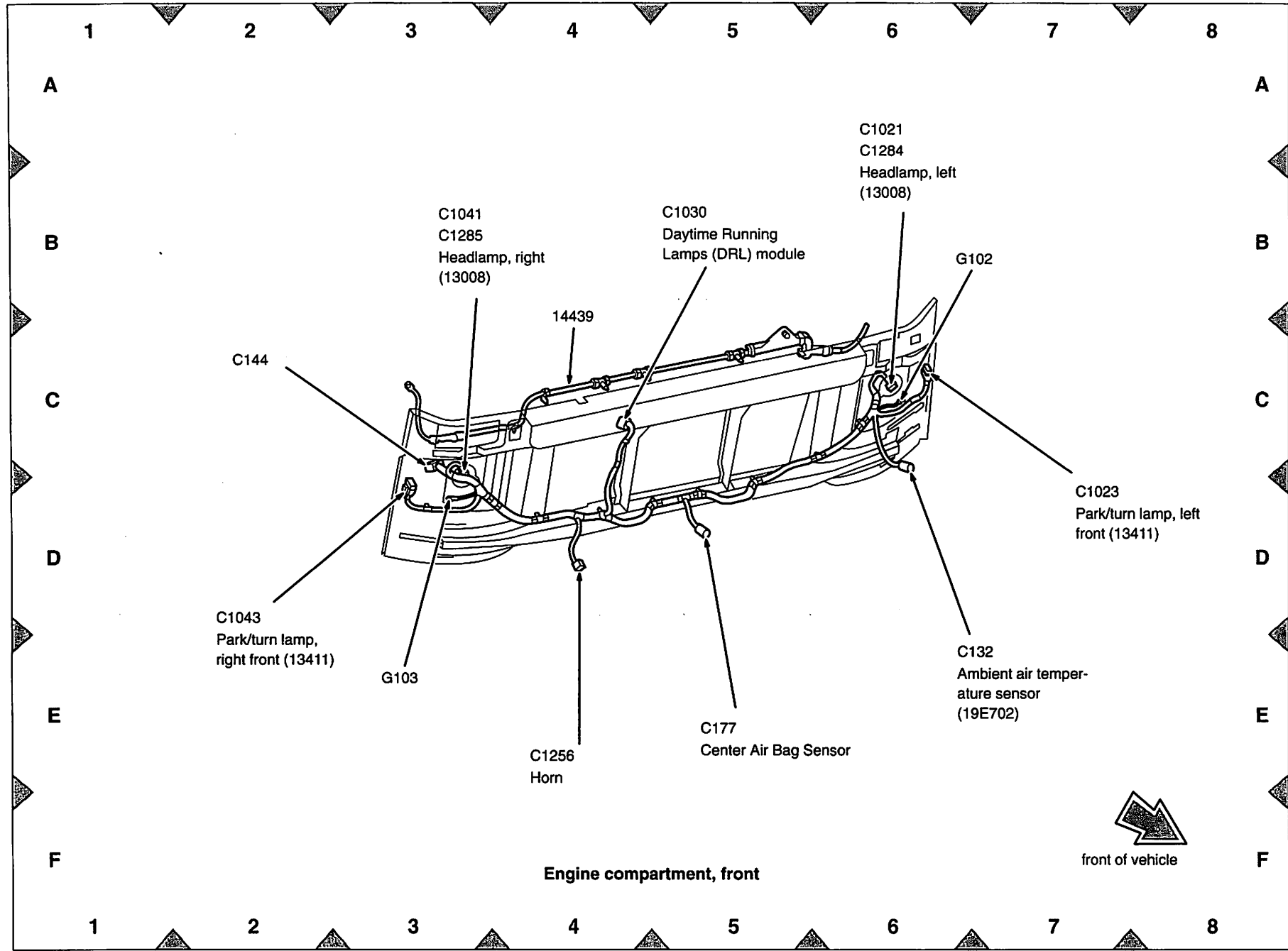


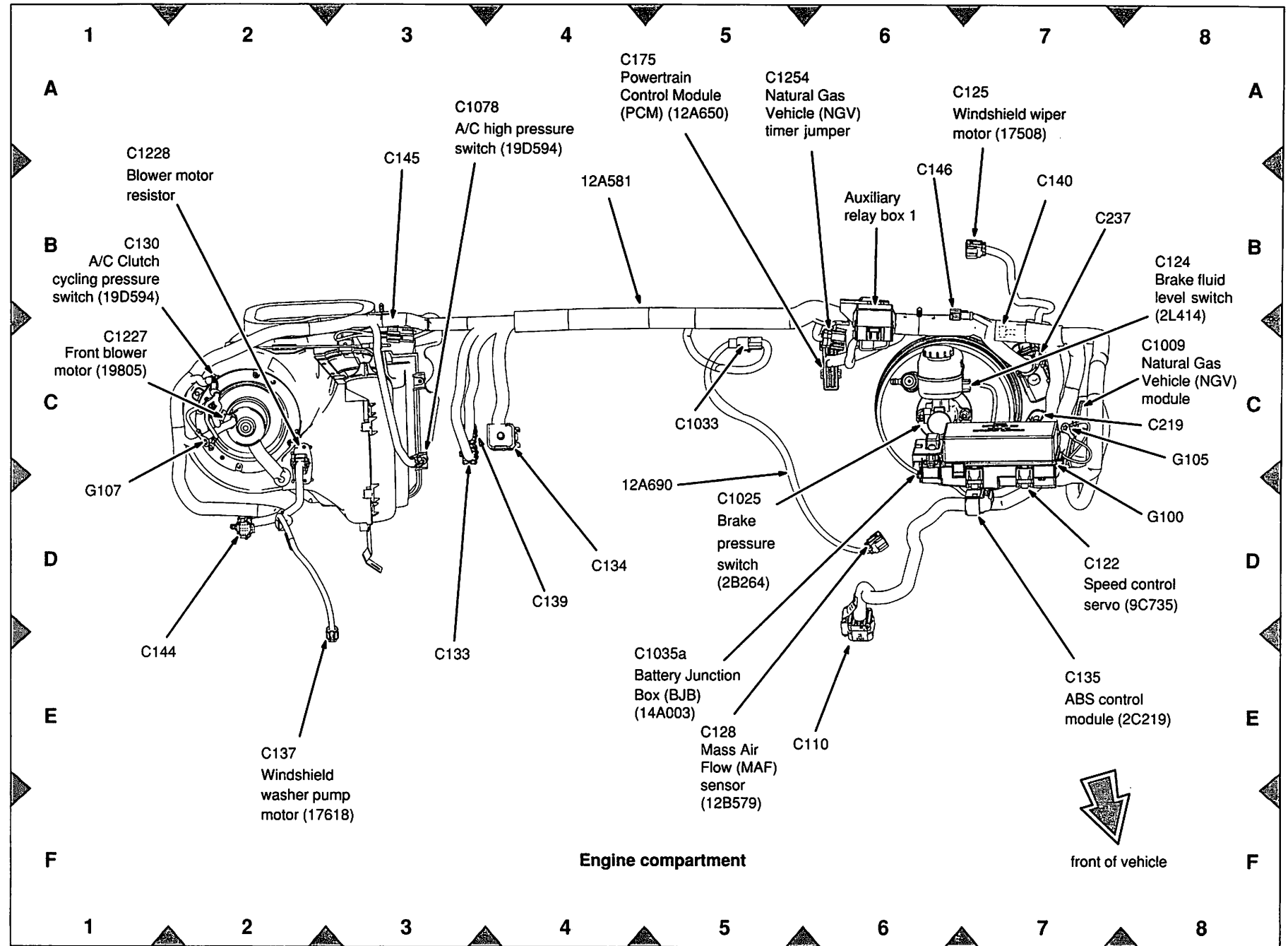
FEMALE

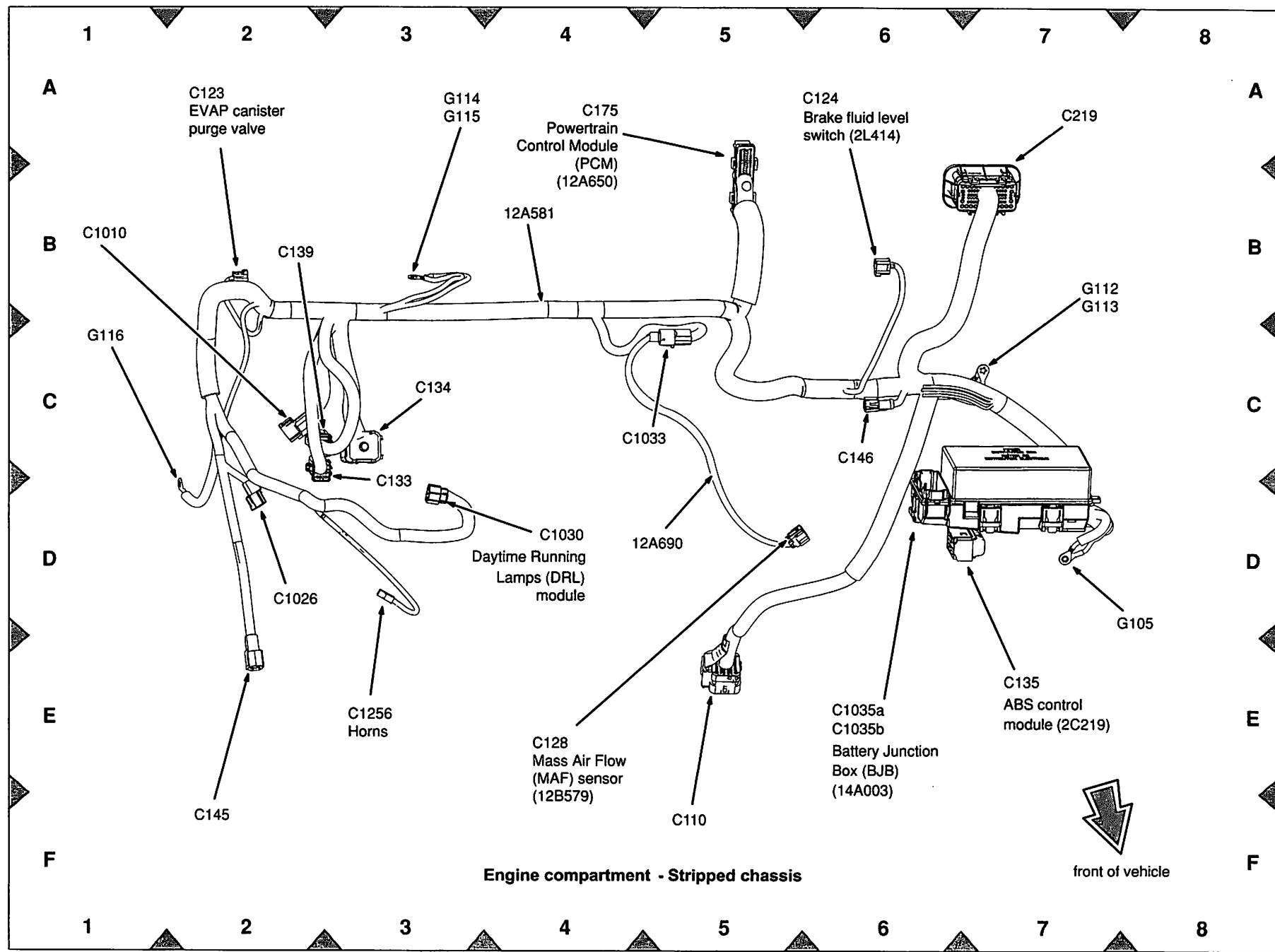
Pin	Circuit	Circuit function
1	**118 (PK/OG)	signal, feed
	*120 (PK/LG)	Door unlock, switch, input
2	**124 (BN)	Door unlock, switch, input
3	** 517 (BK/WH)	Voltage supplied at all times (overload protected)
	*57 (BK)	Ground
4	**123 (RD)	Door lock, feed
5	**117 (PK/BK)	signal, feed
	*119 (PK/YE)	Door lock, feed

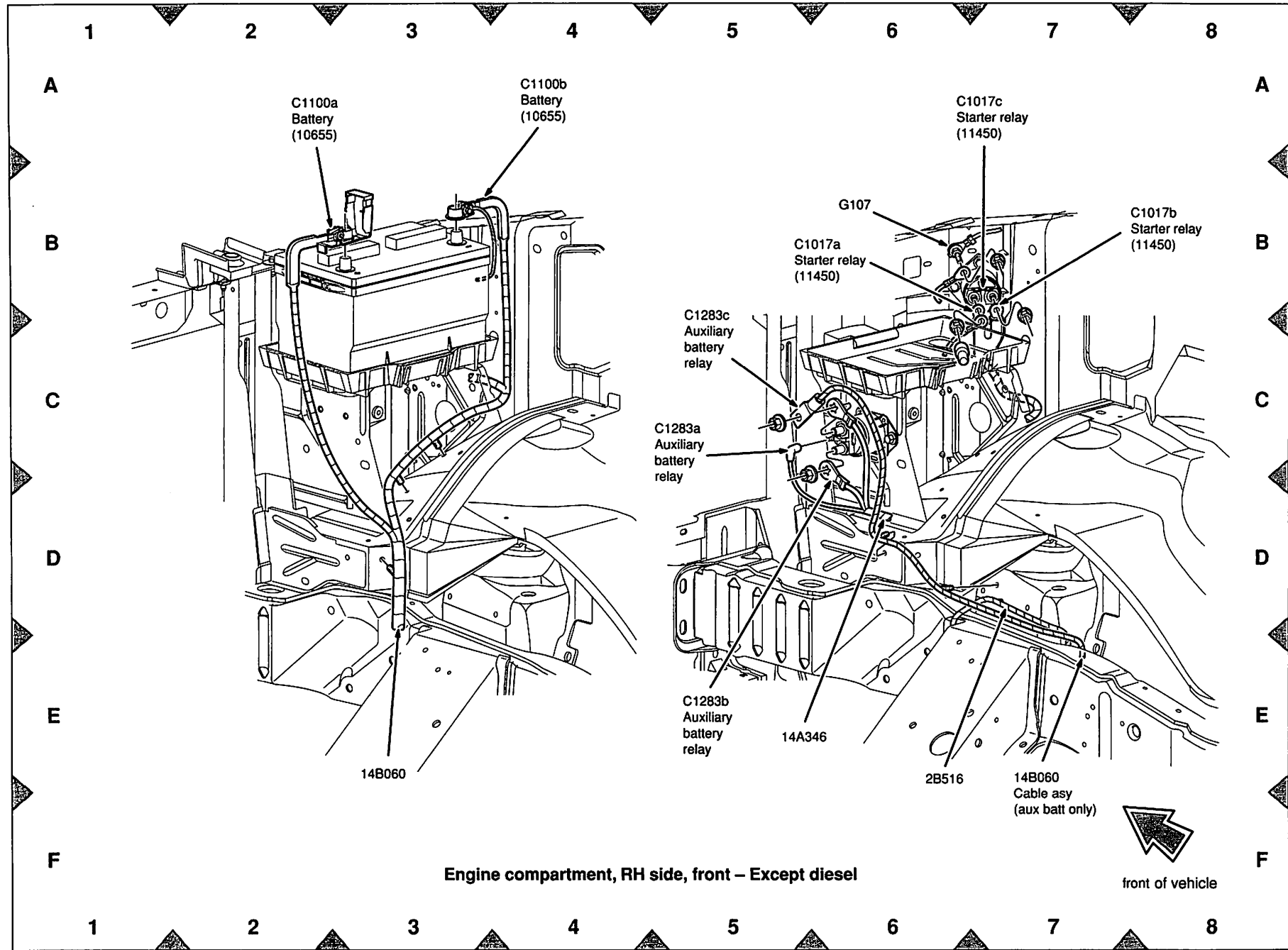
Notes

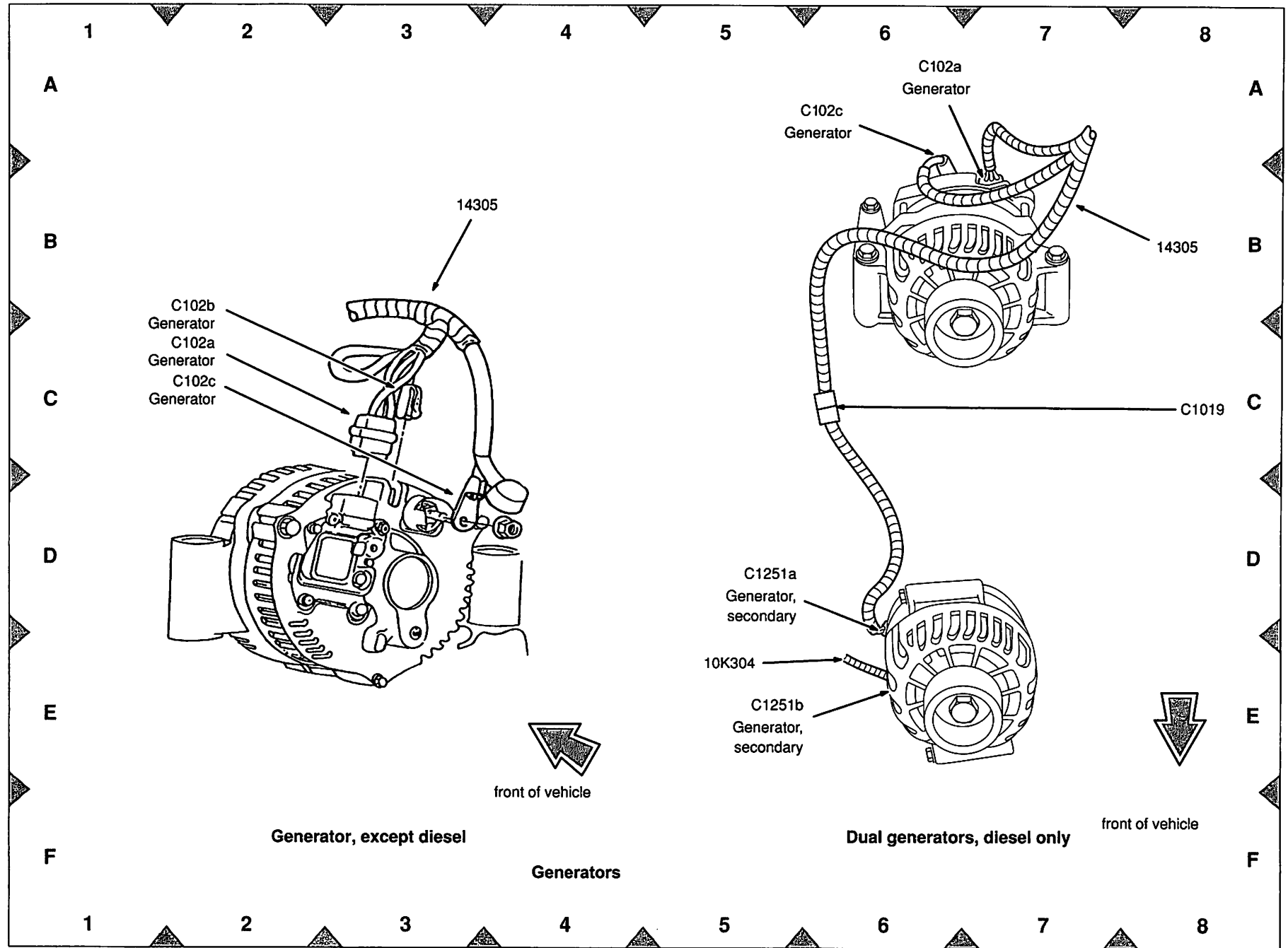
151-1 Component Location Views

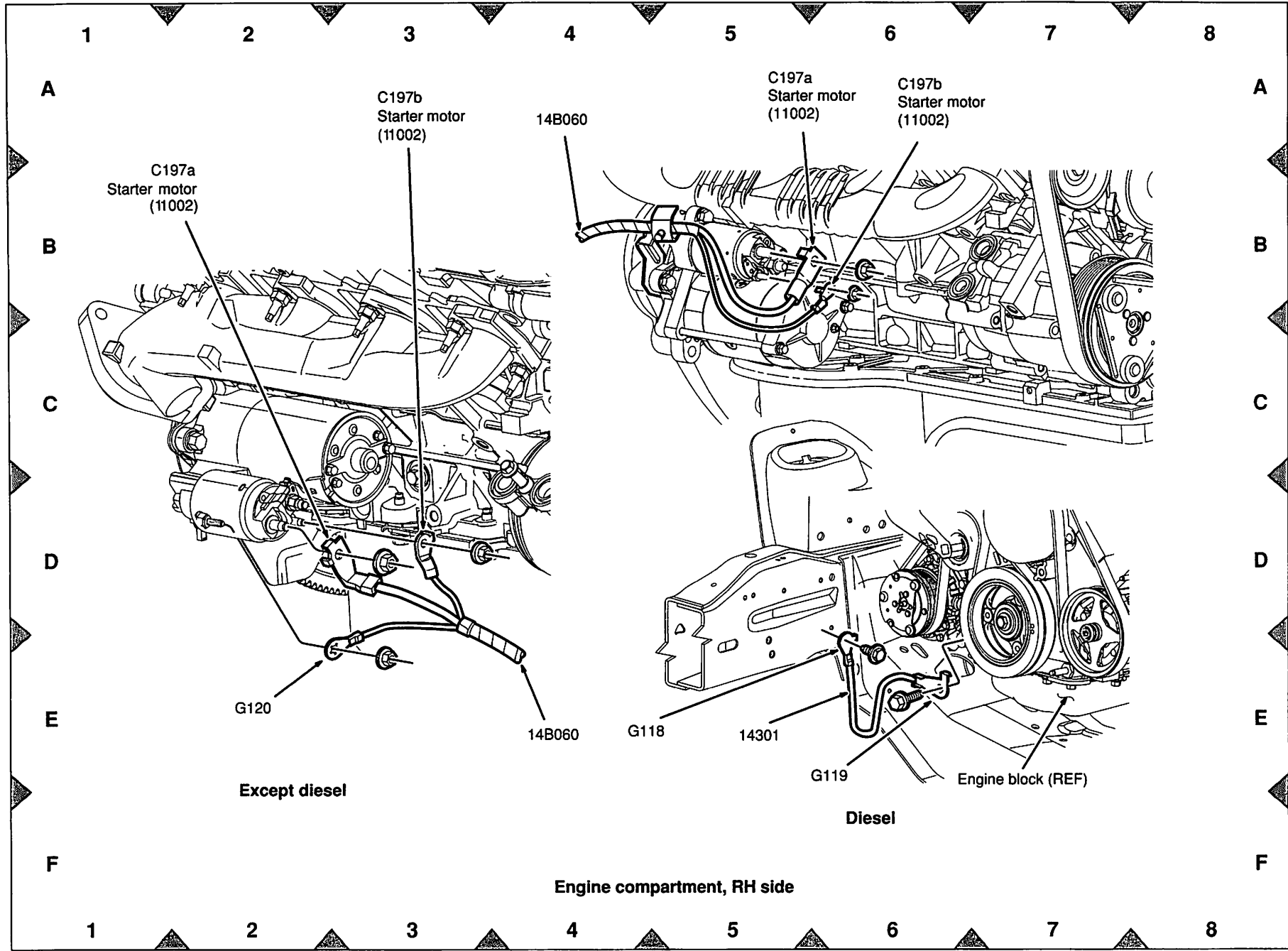


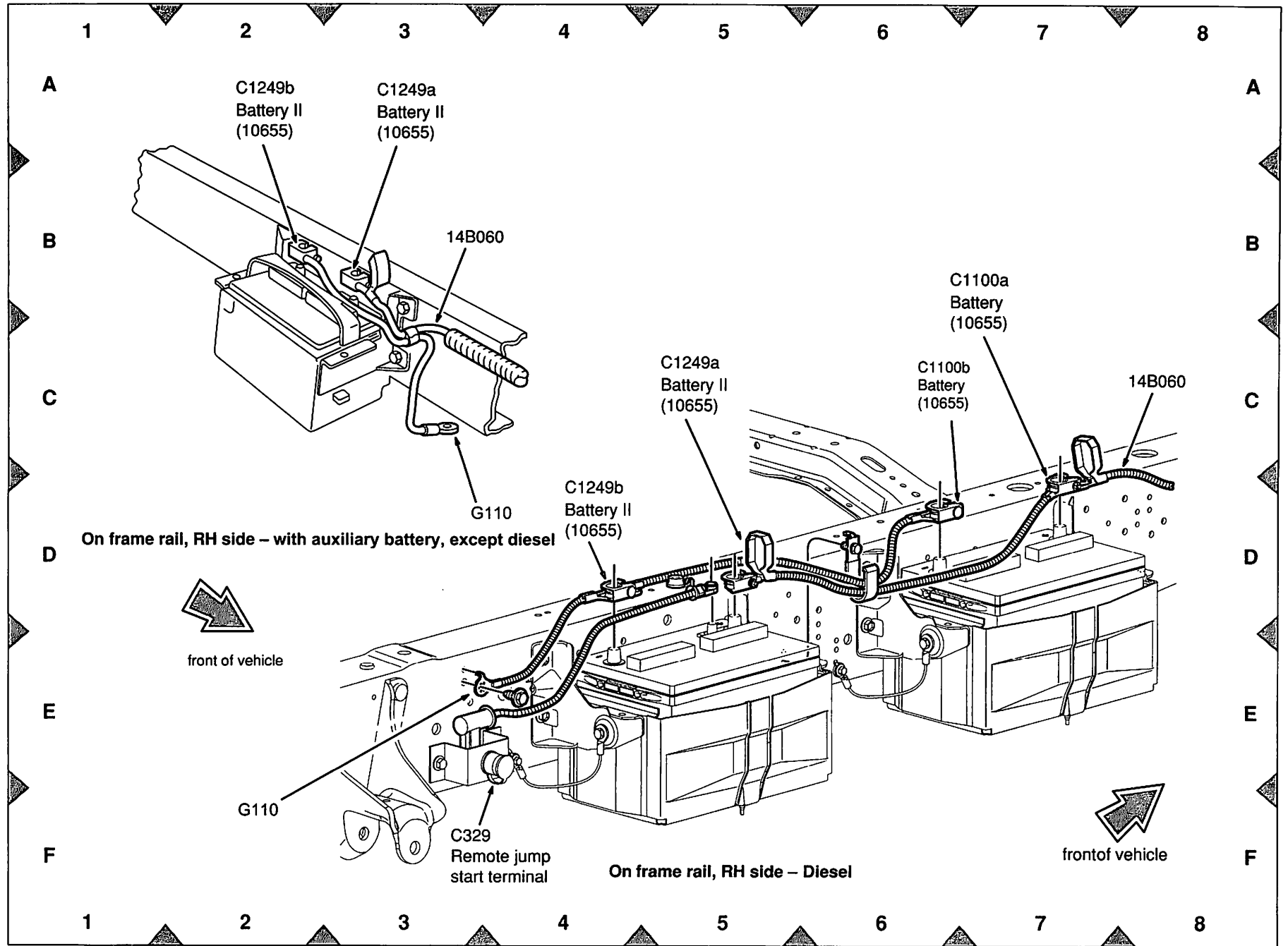


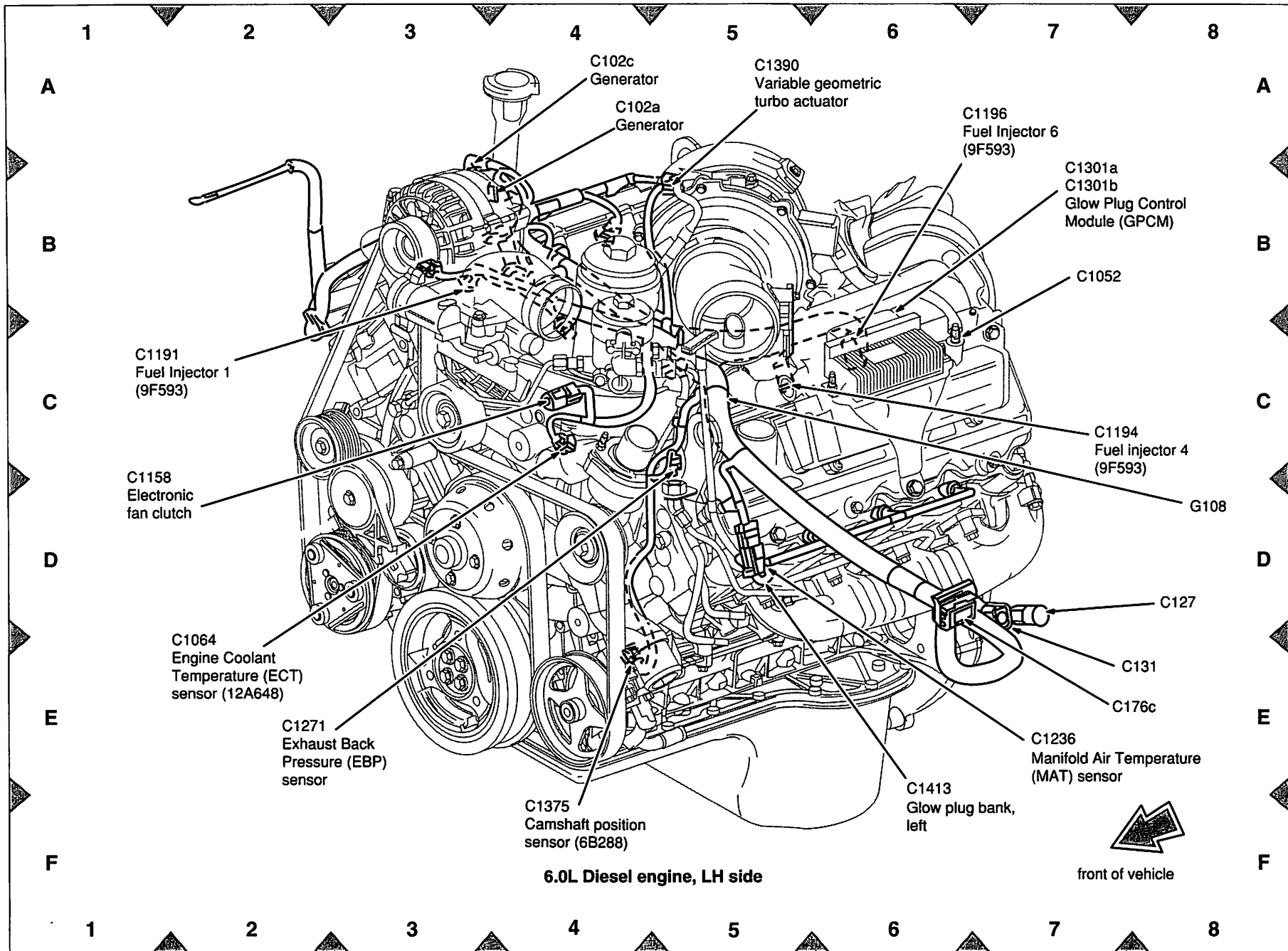


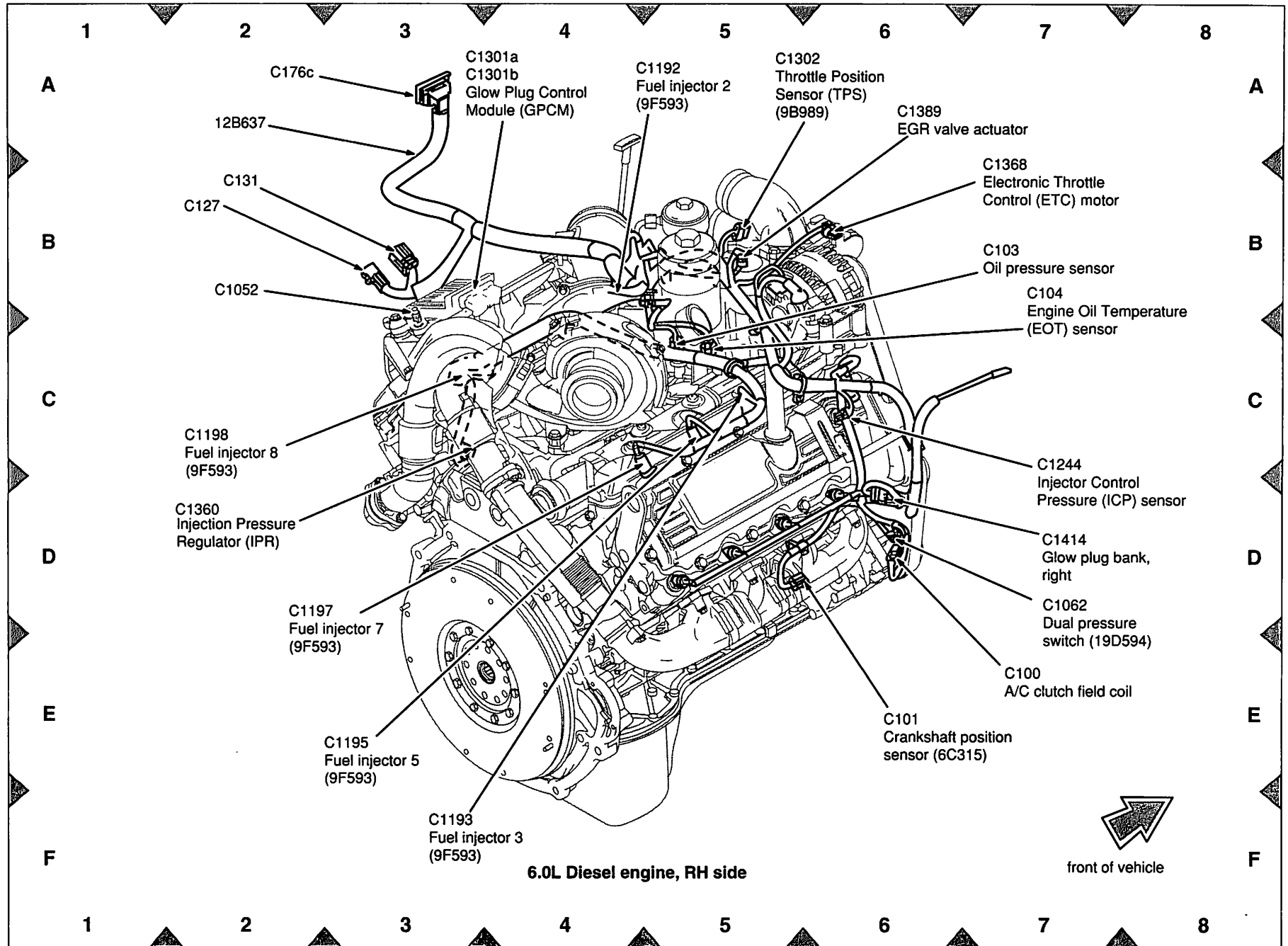


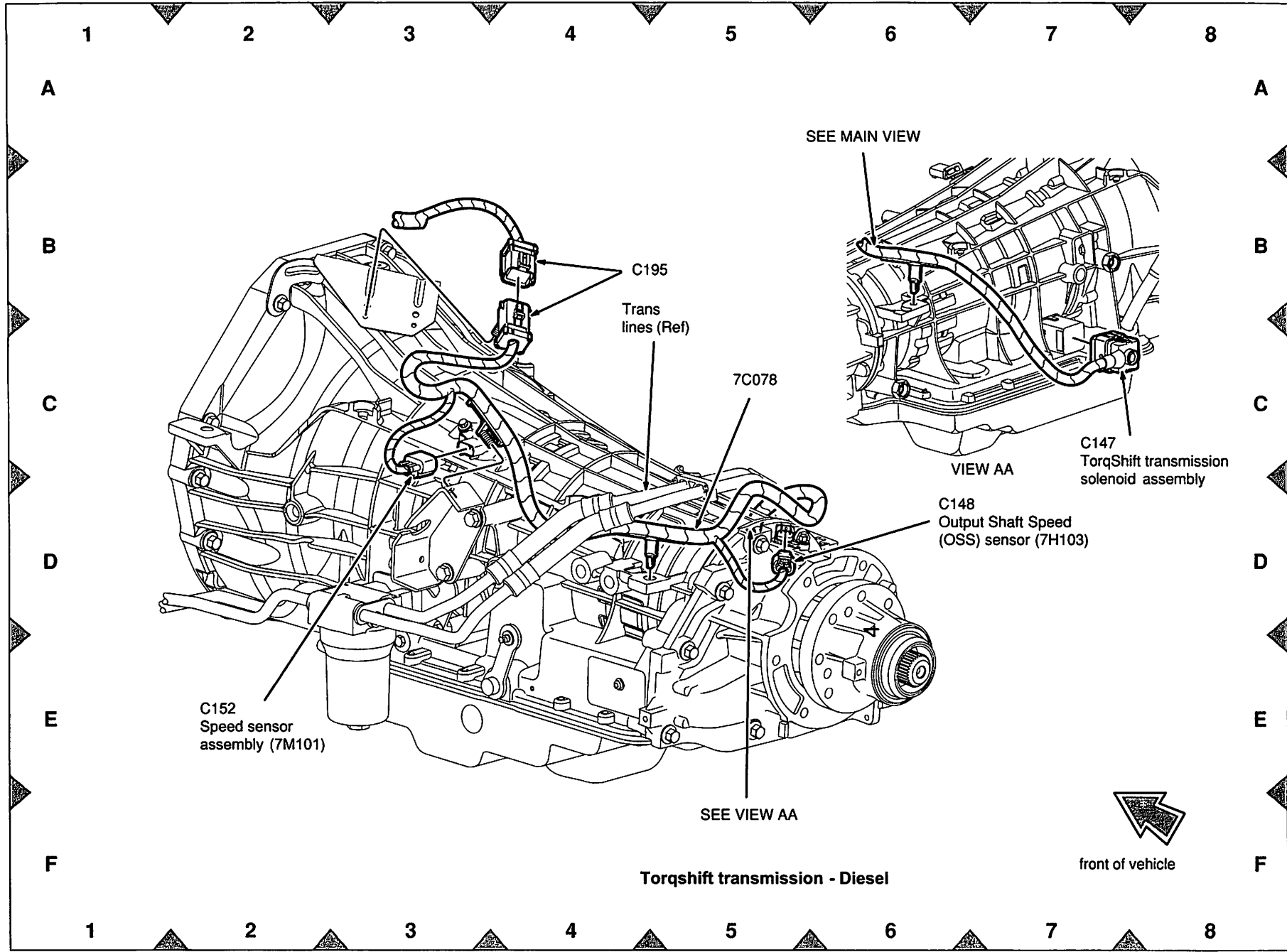


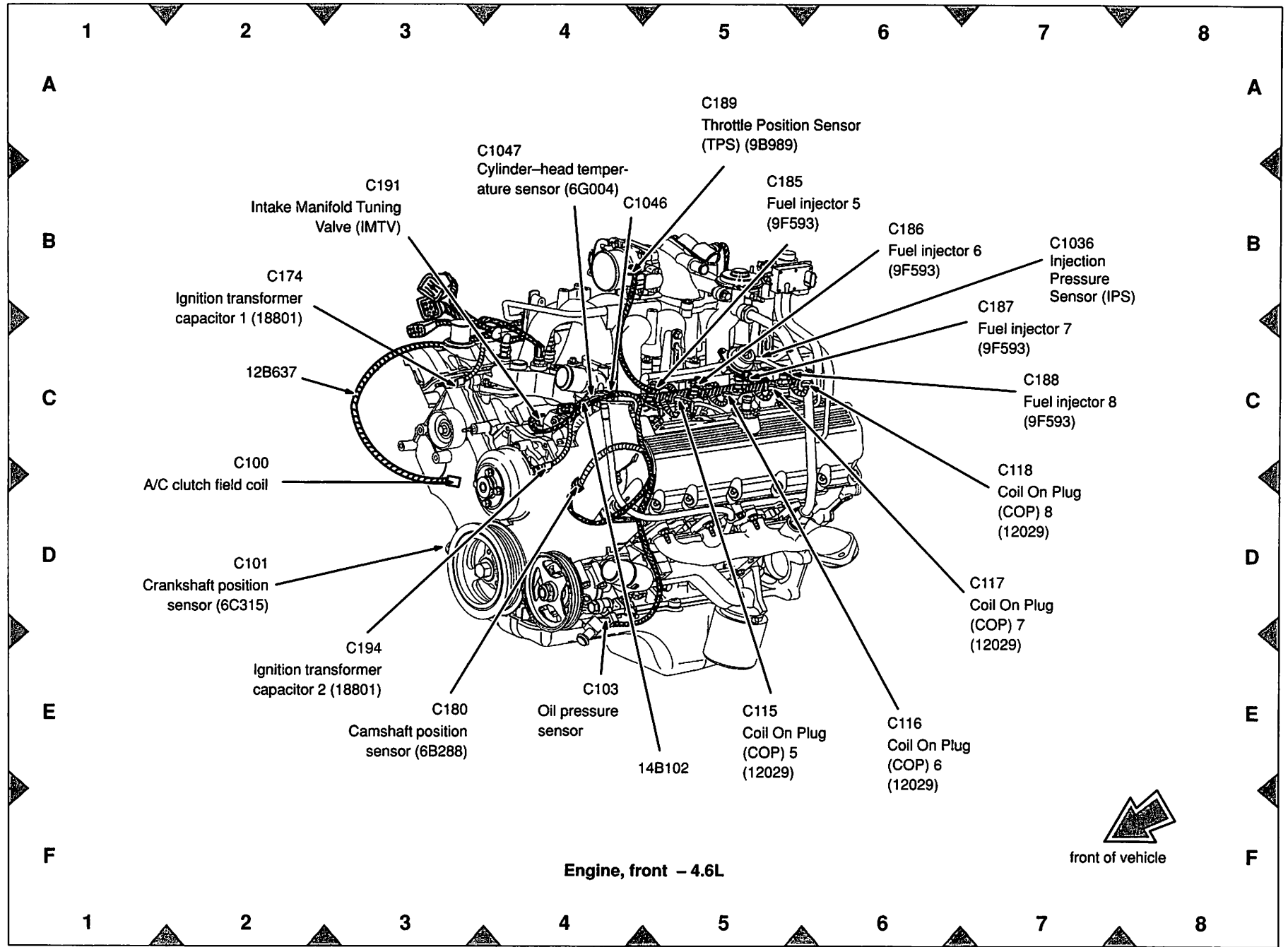


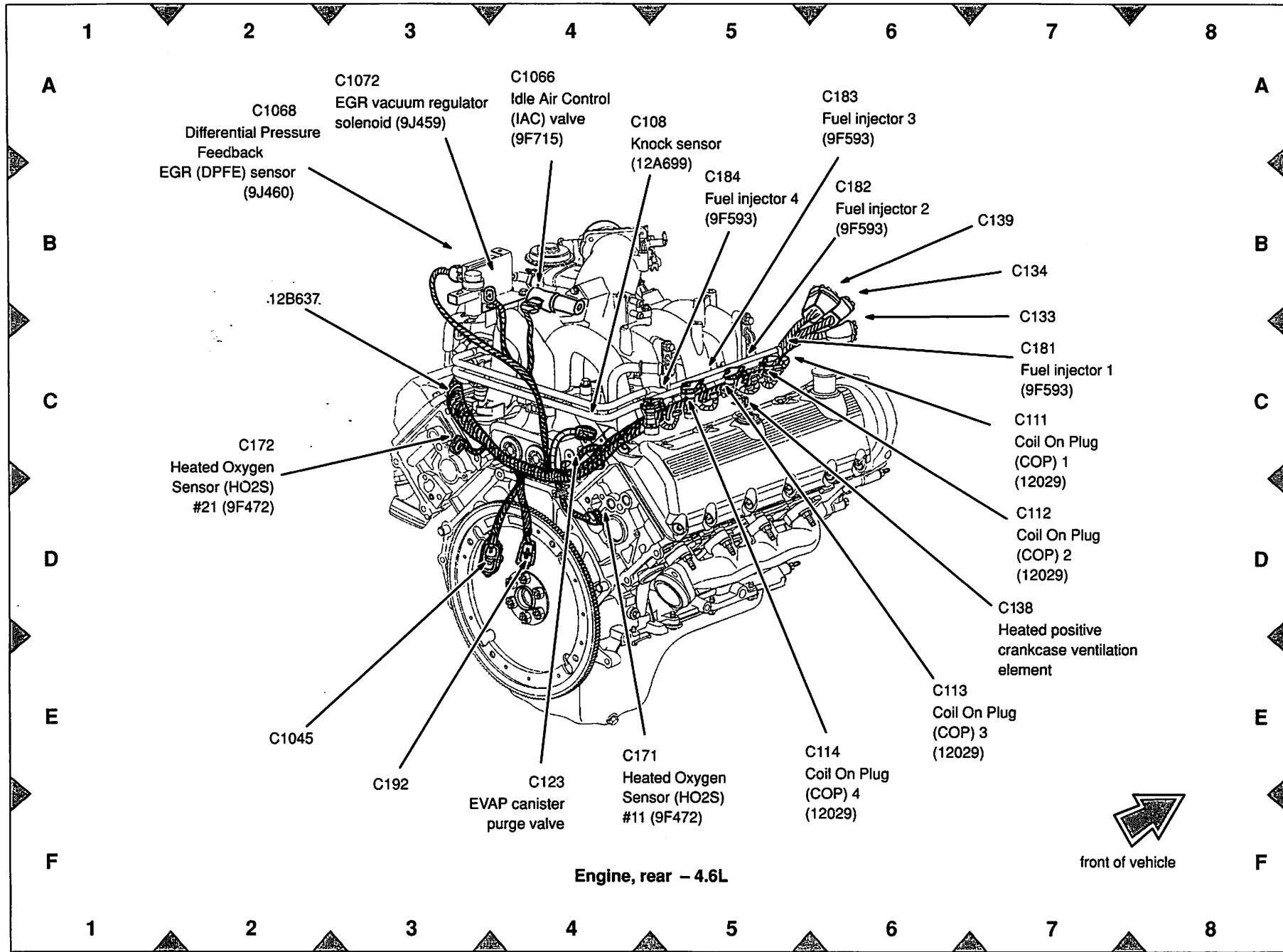


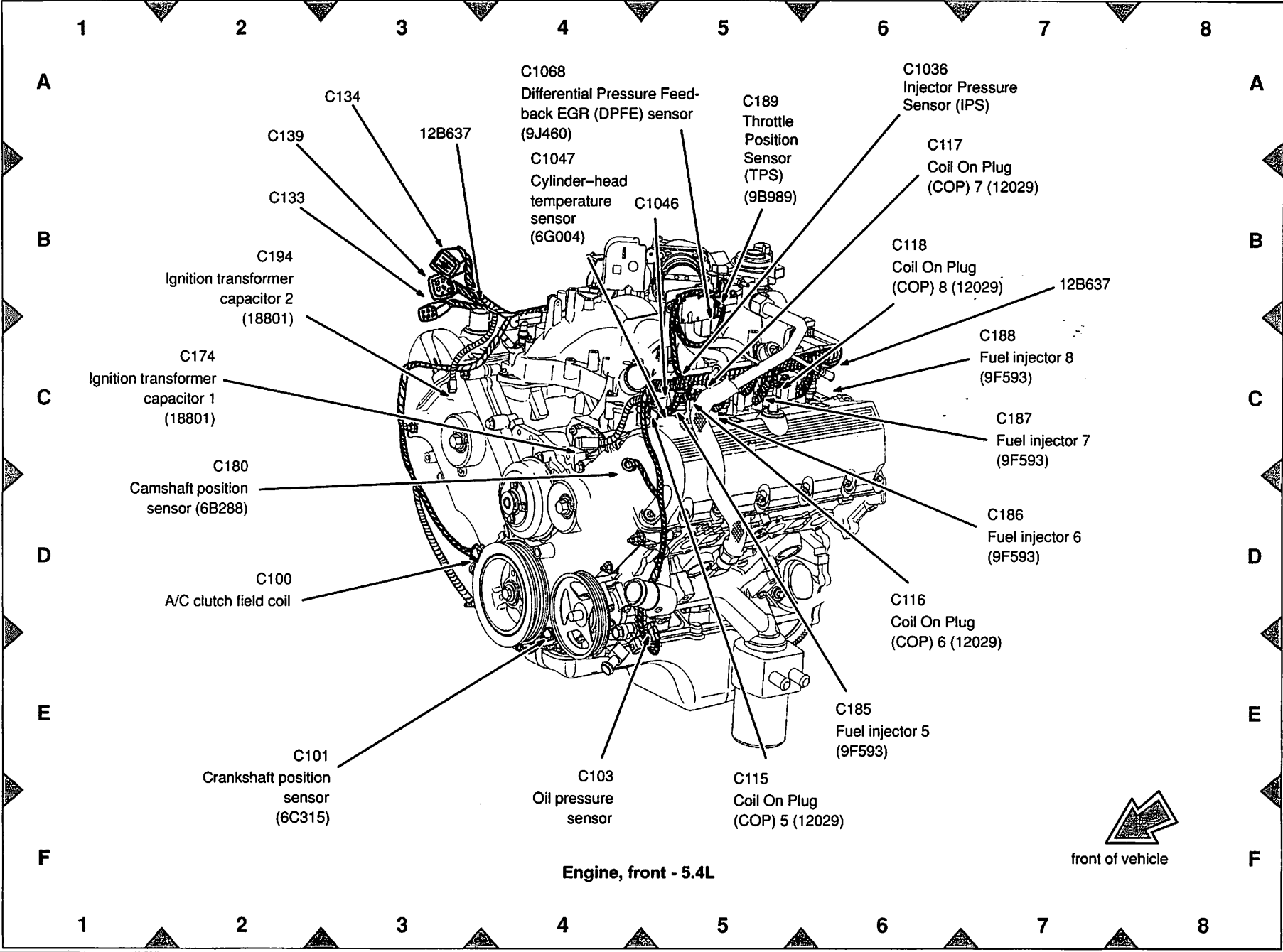






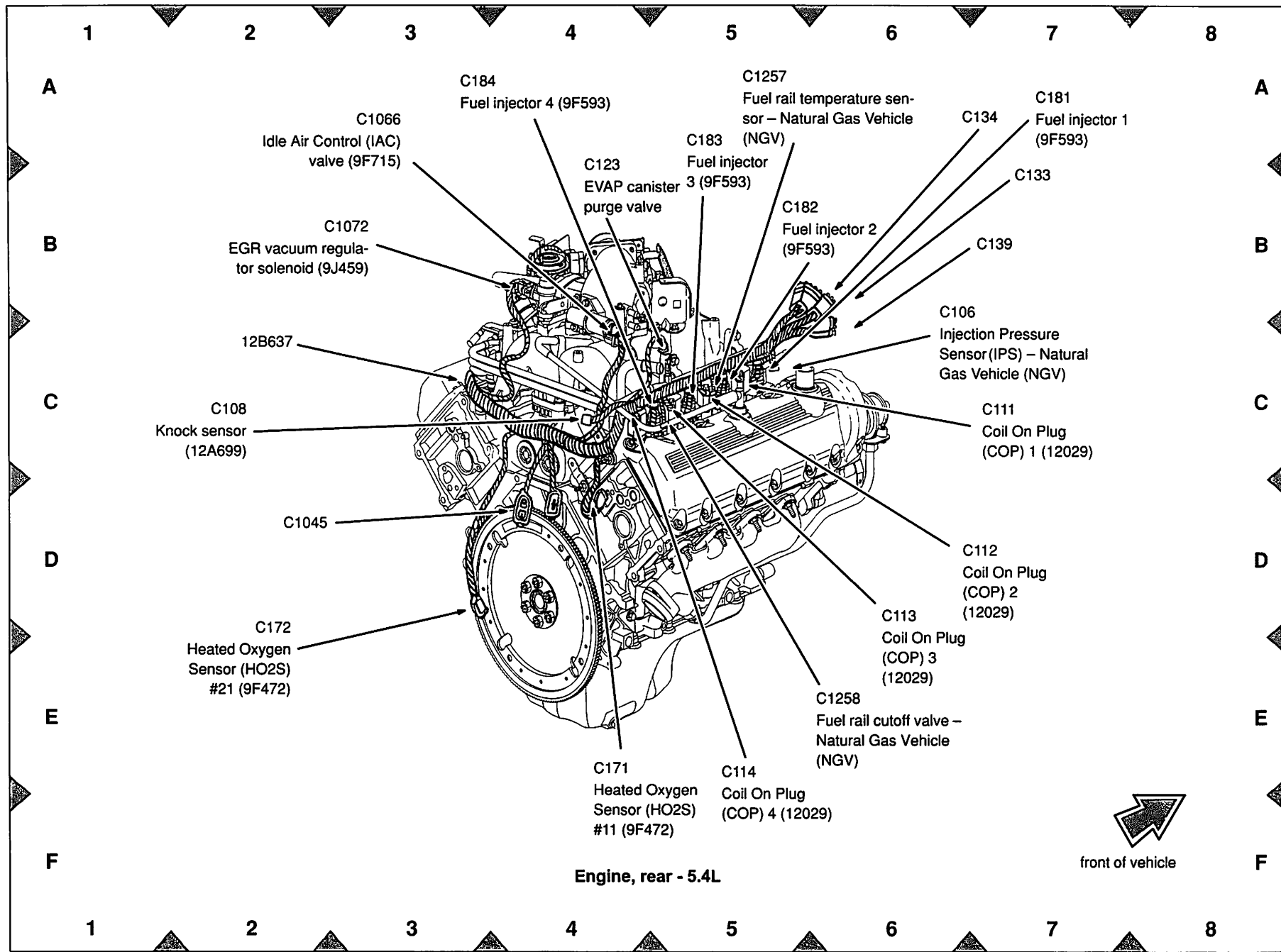


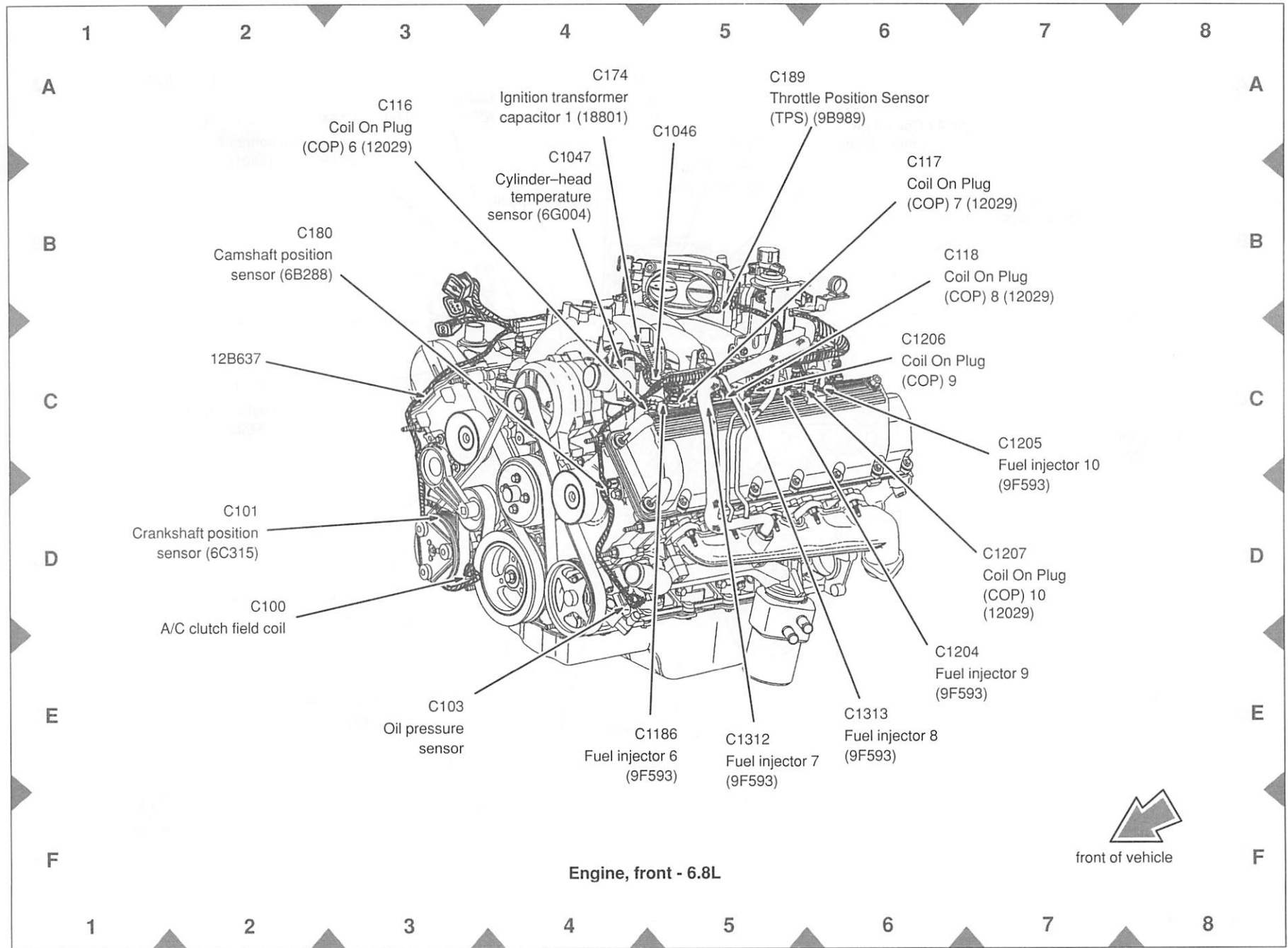


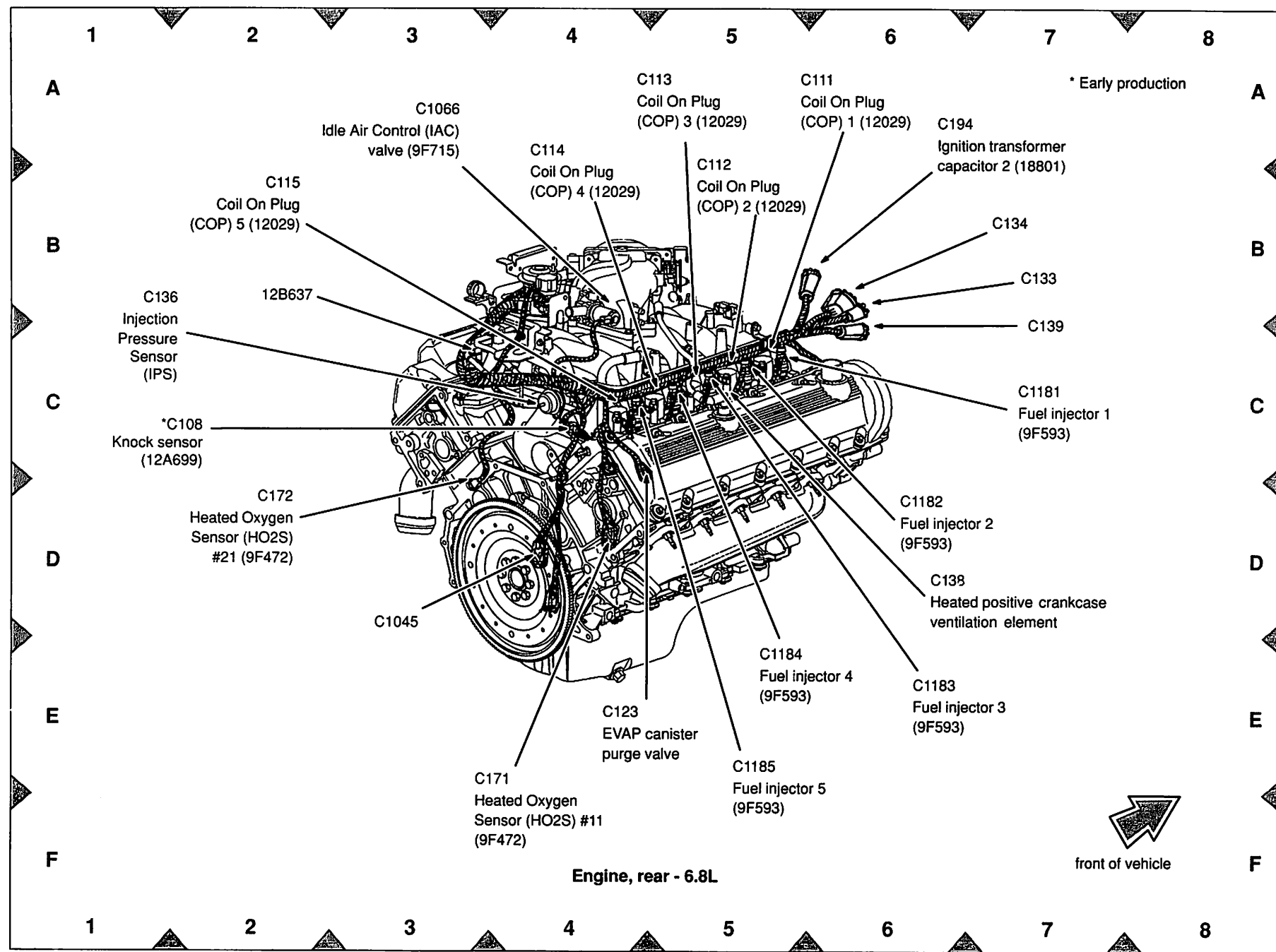


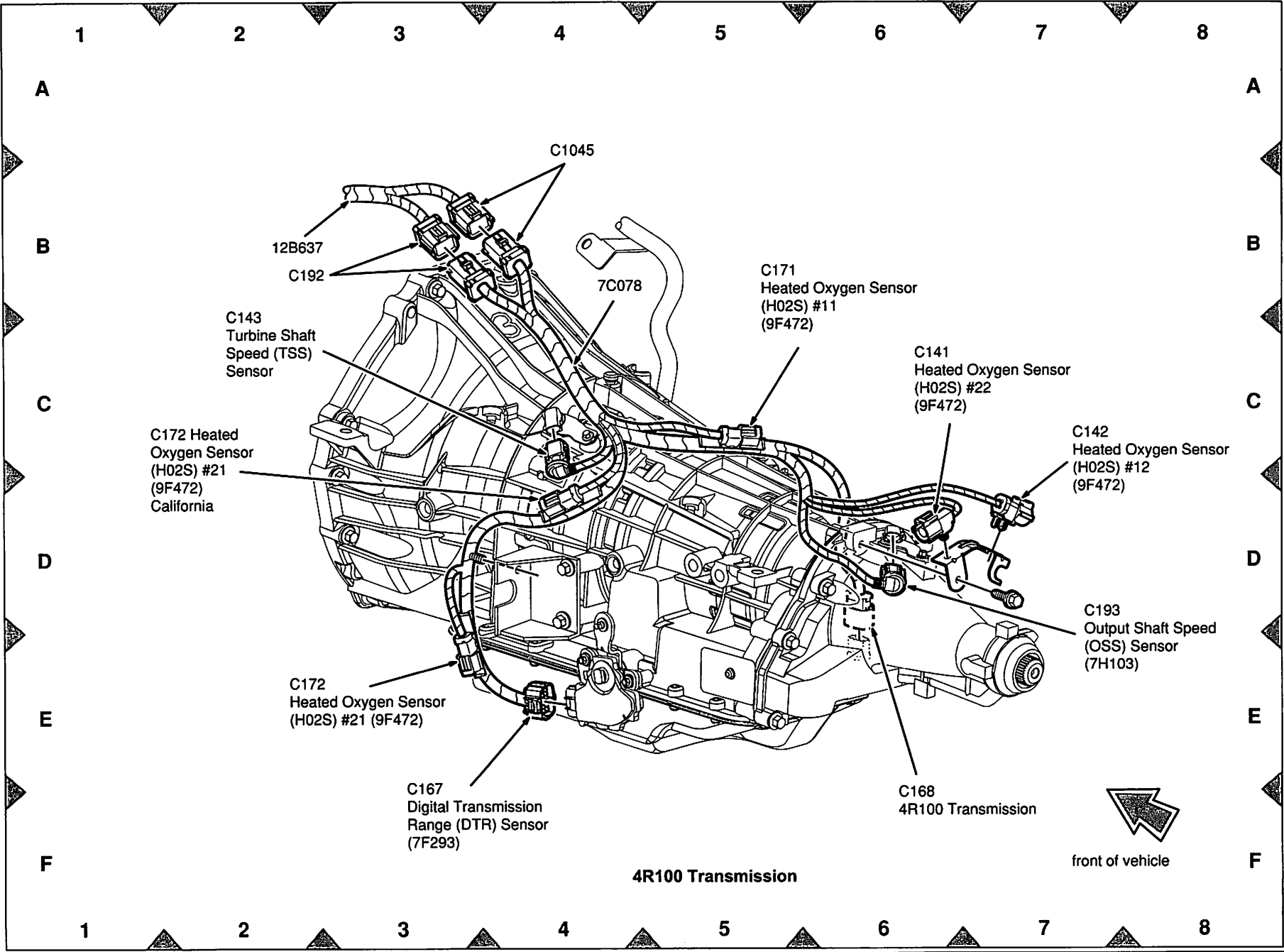
Engine, front - 5.4L

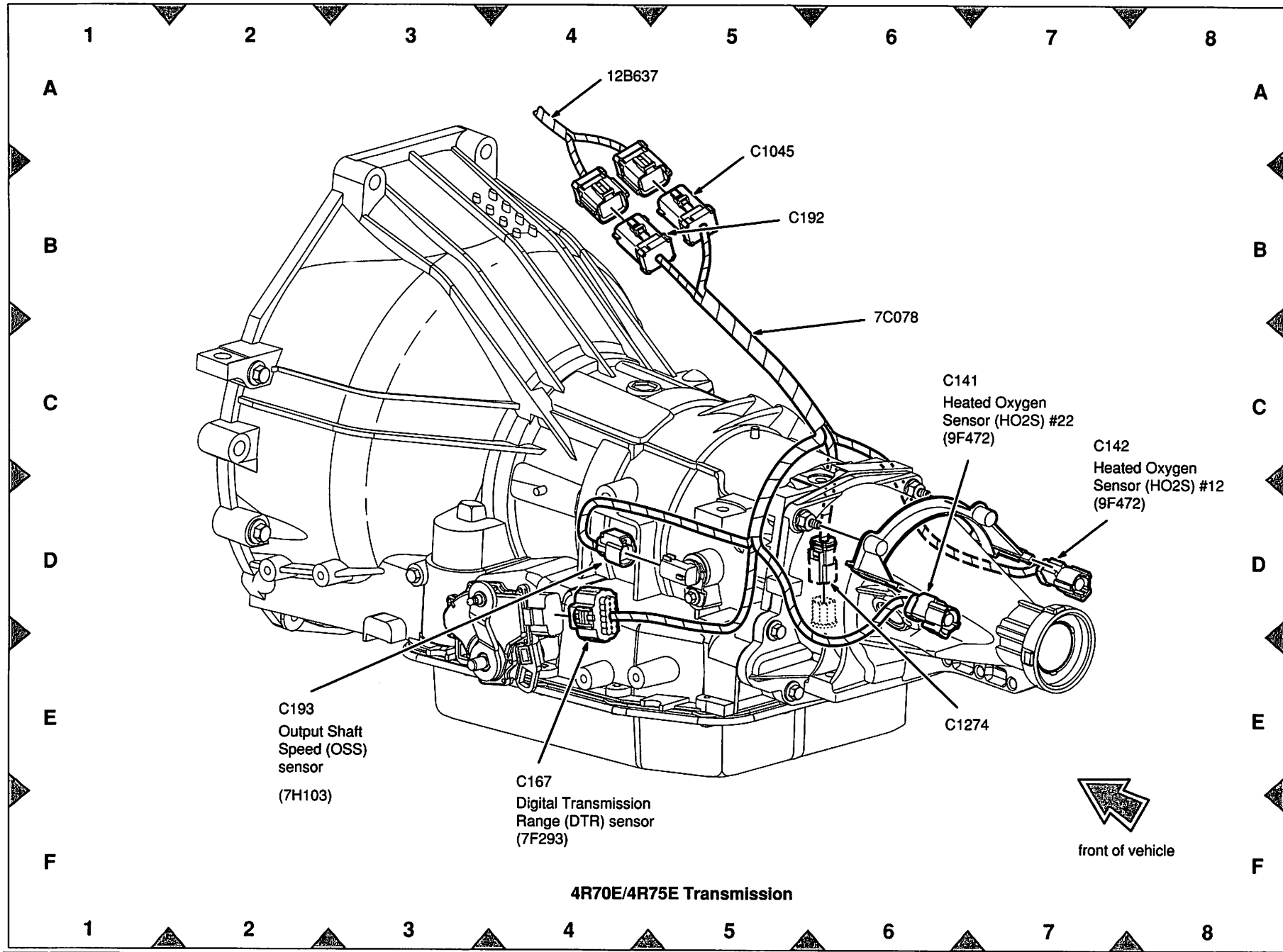


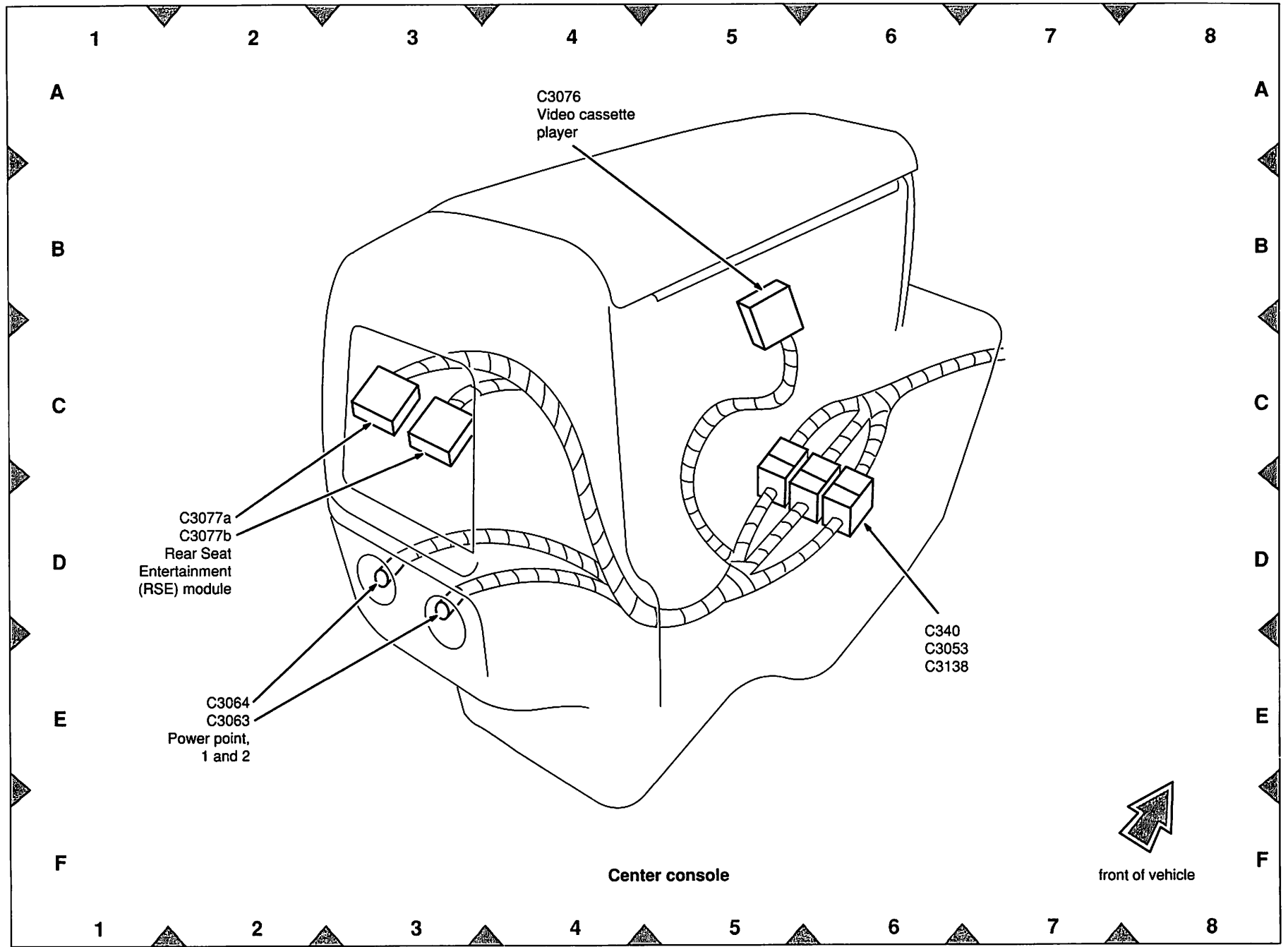


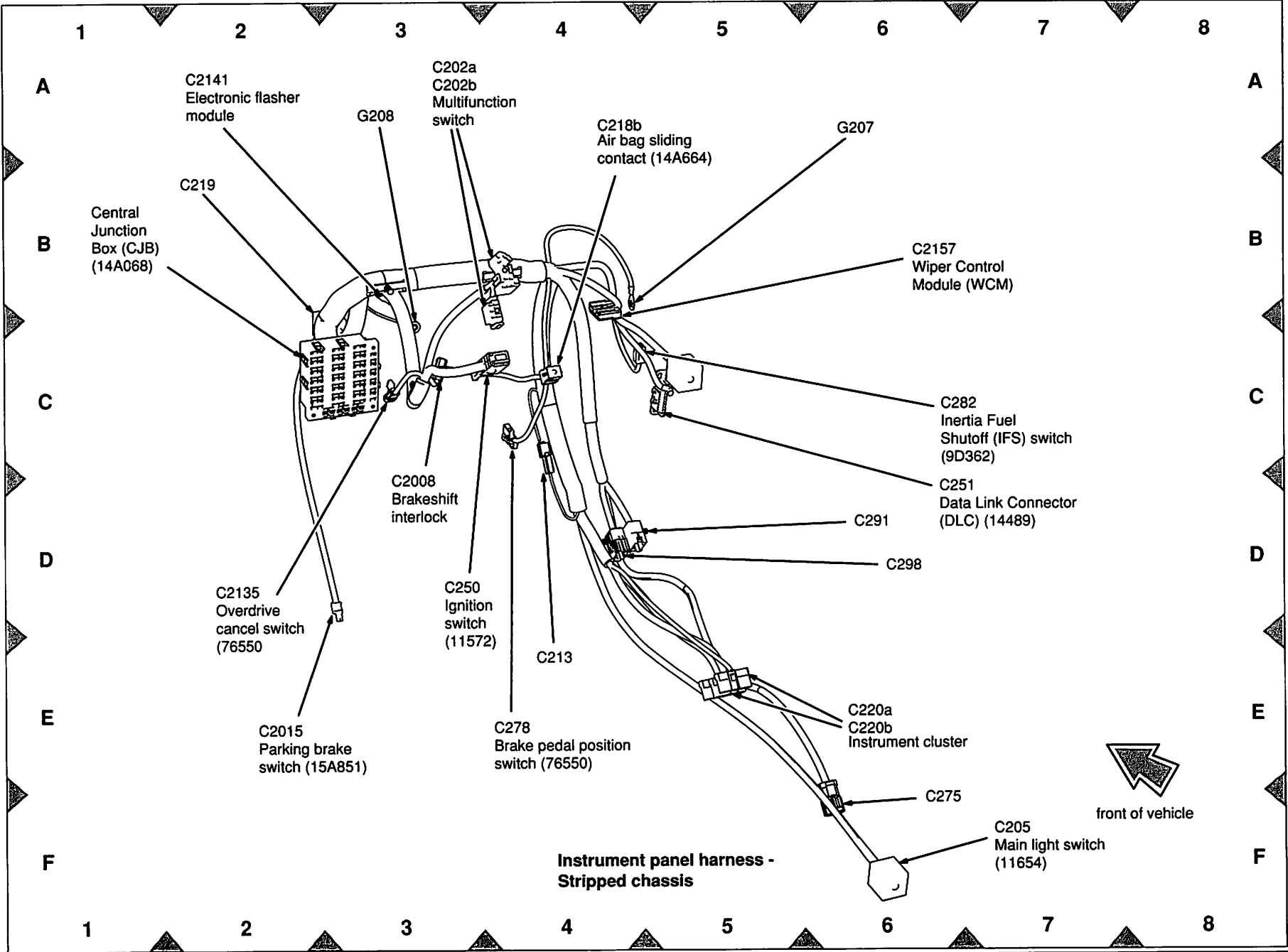


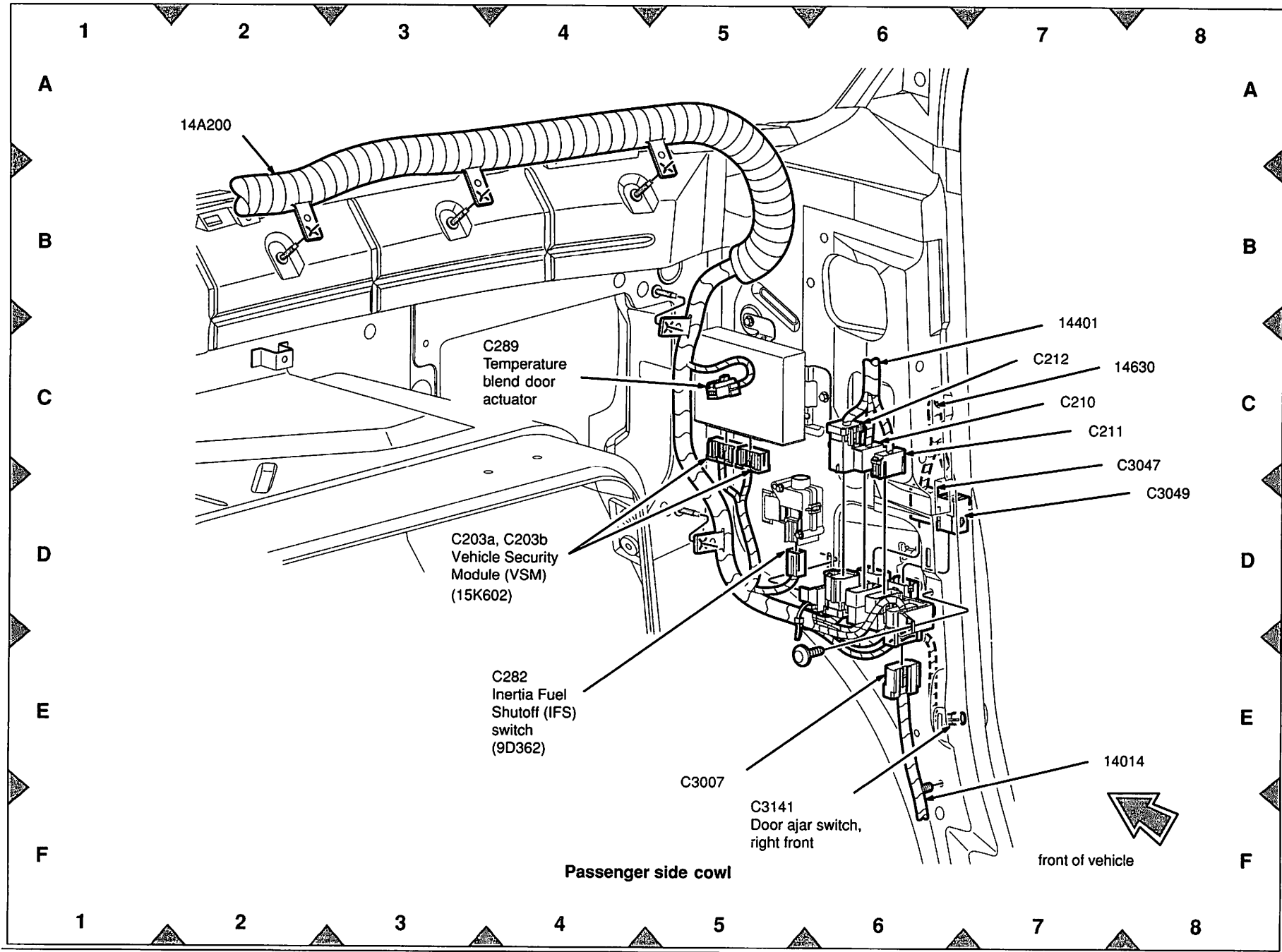


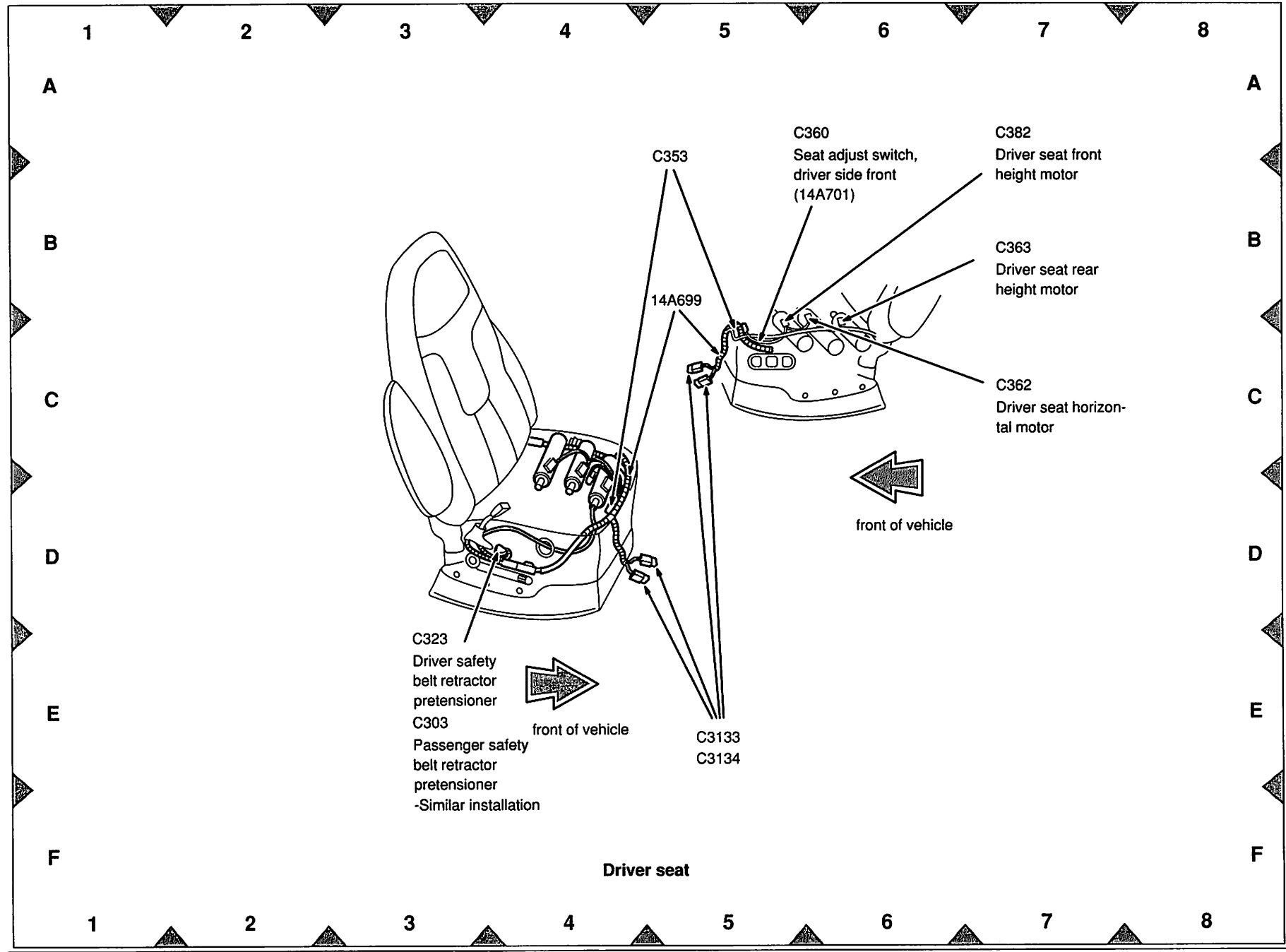


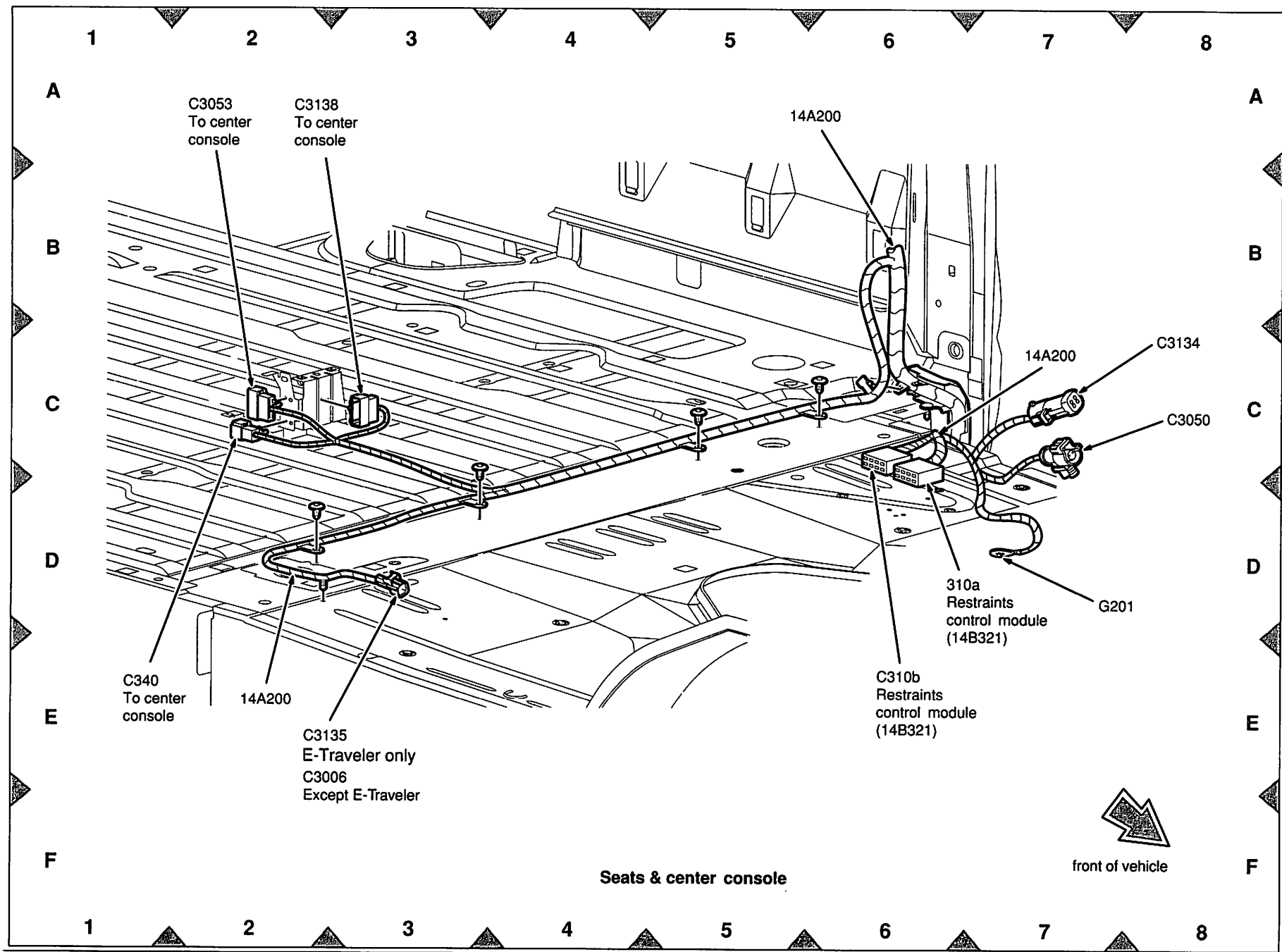


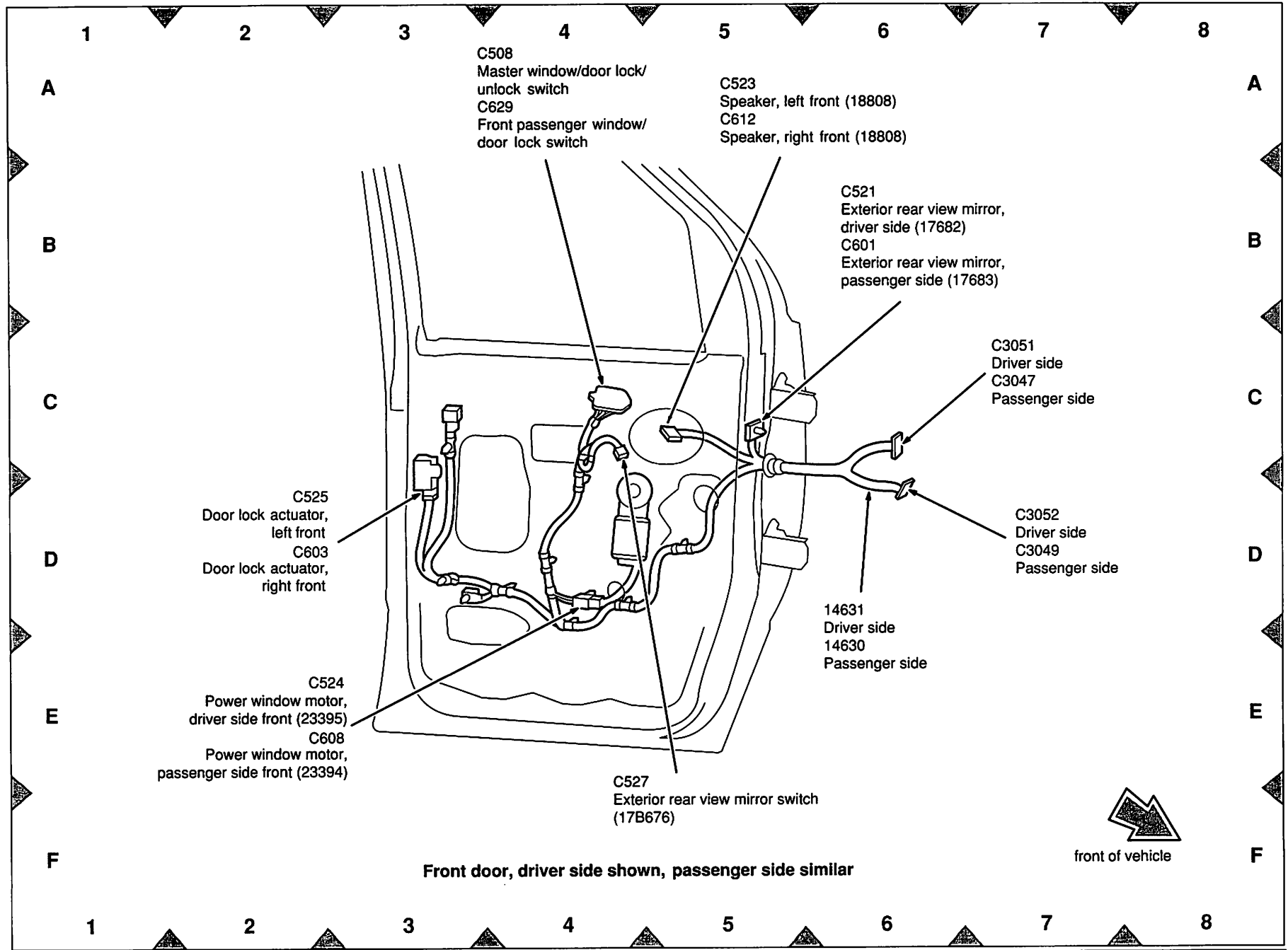


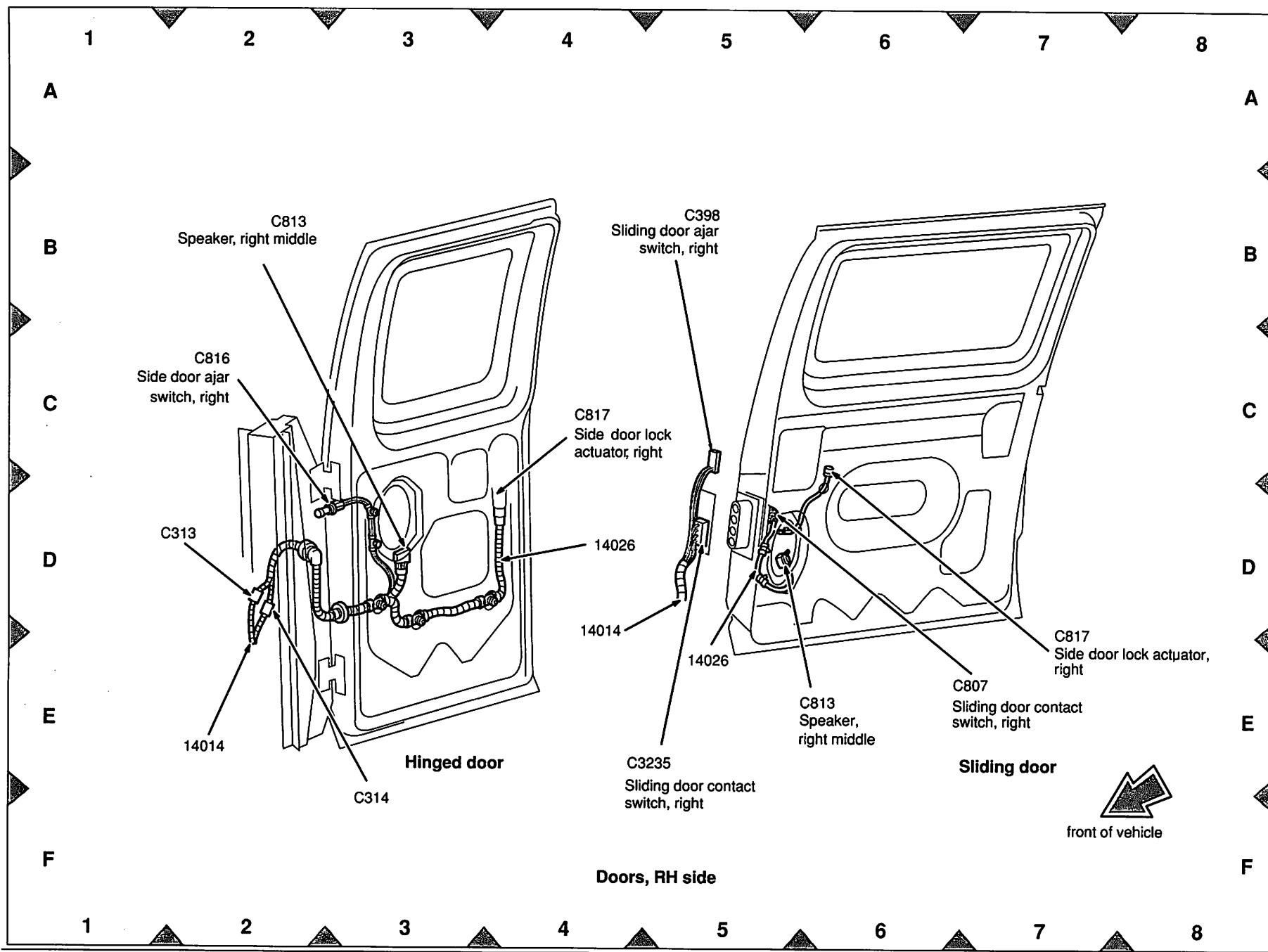


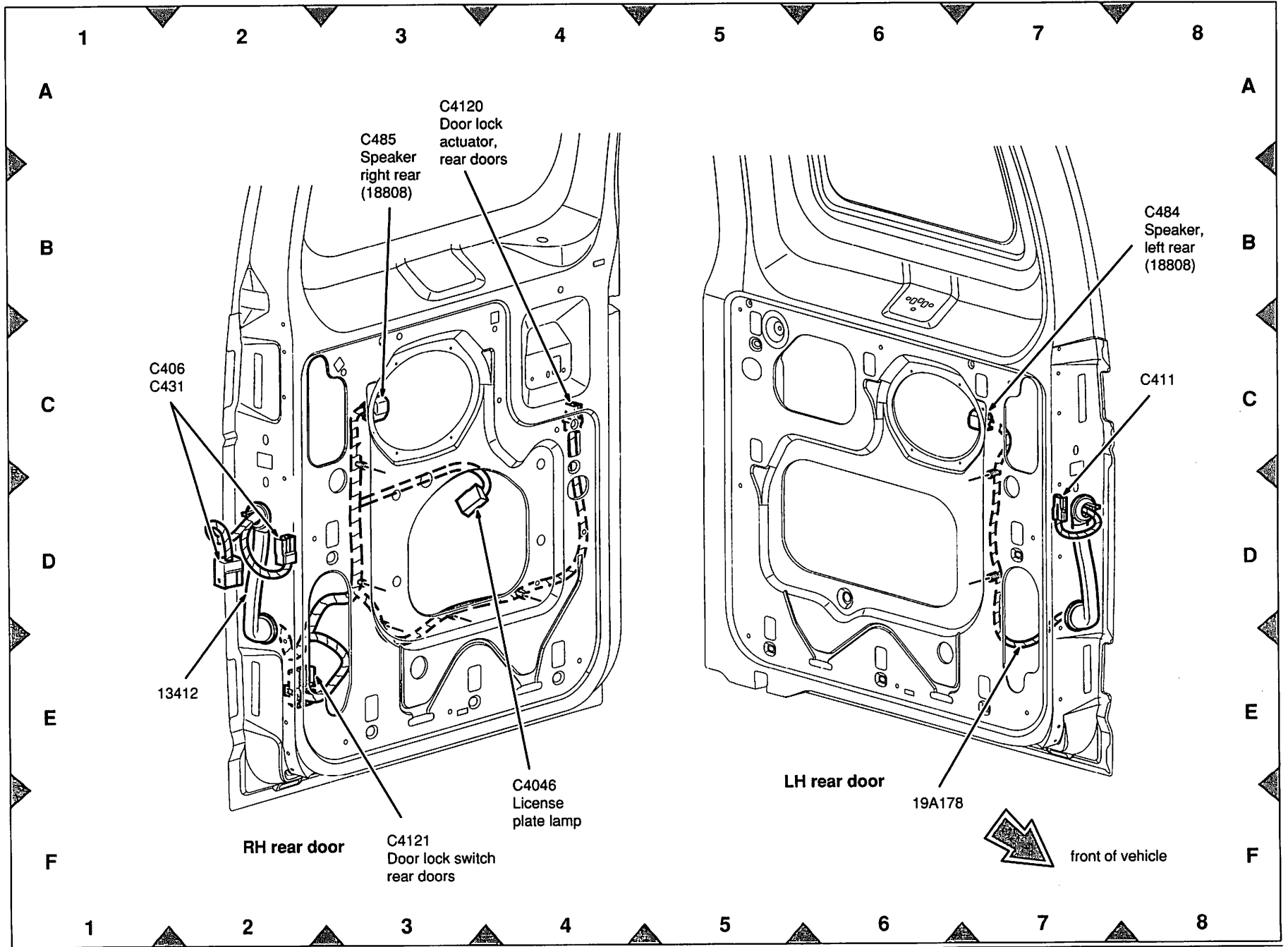




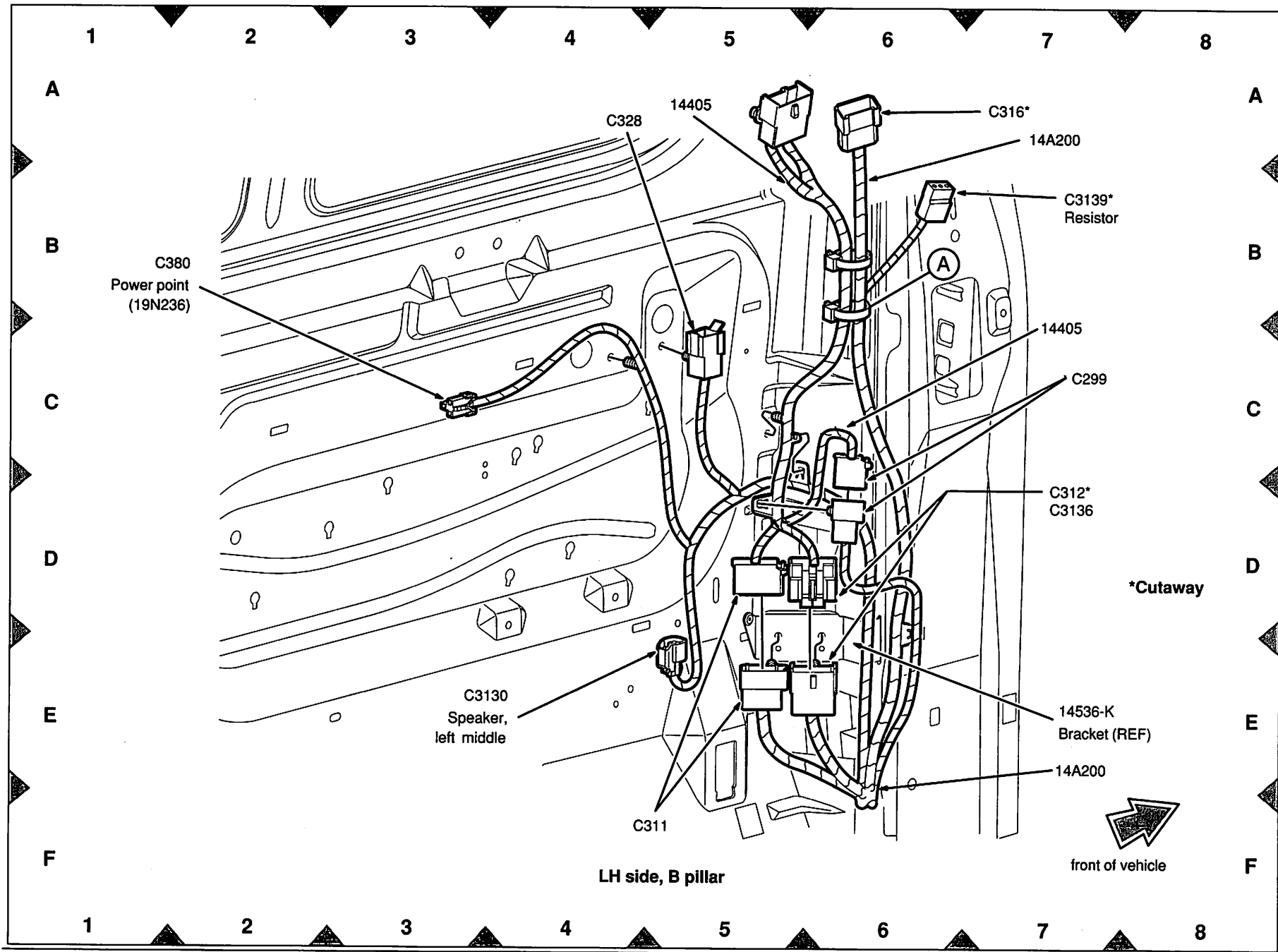


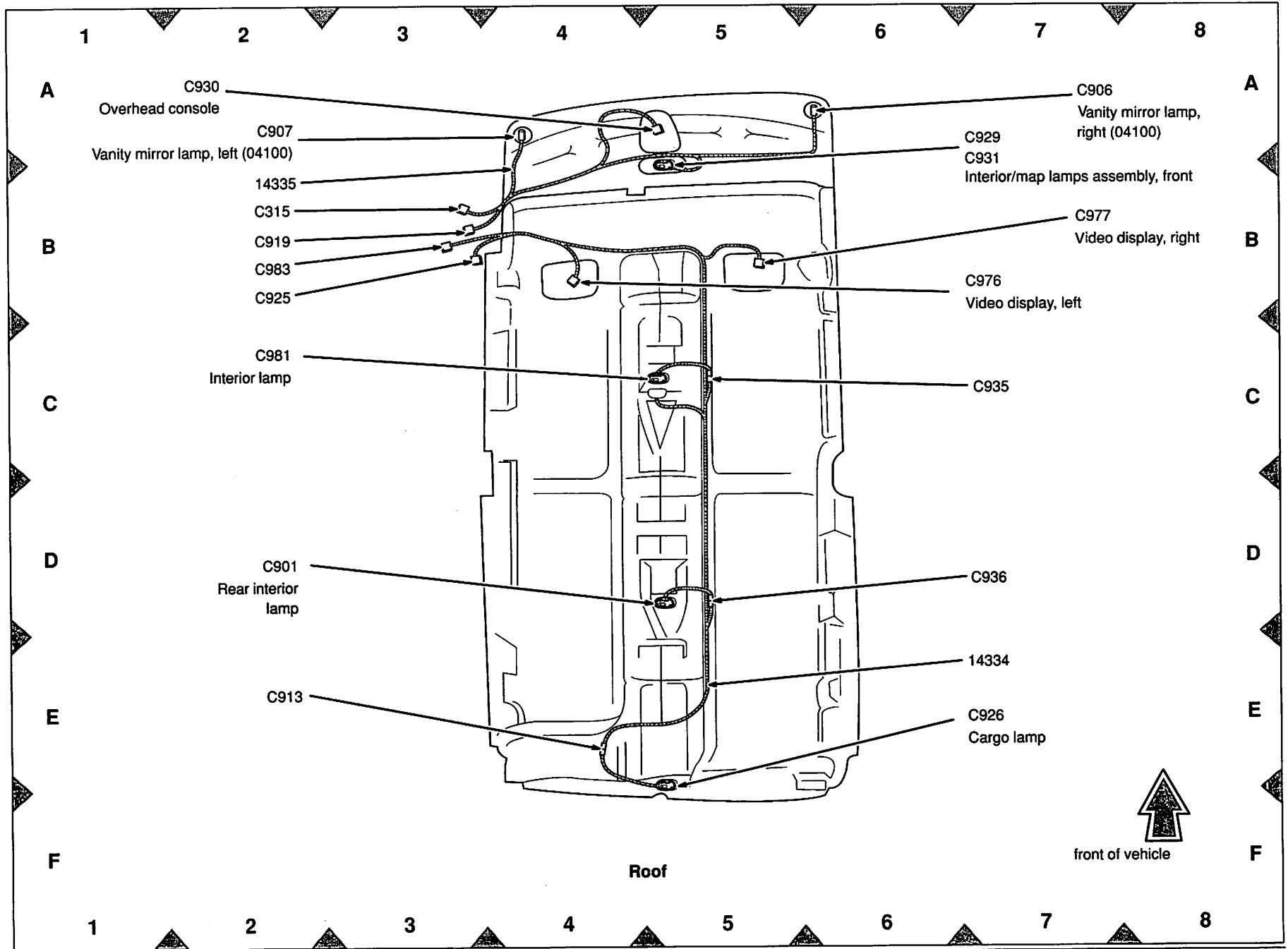


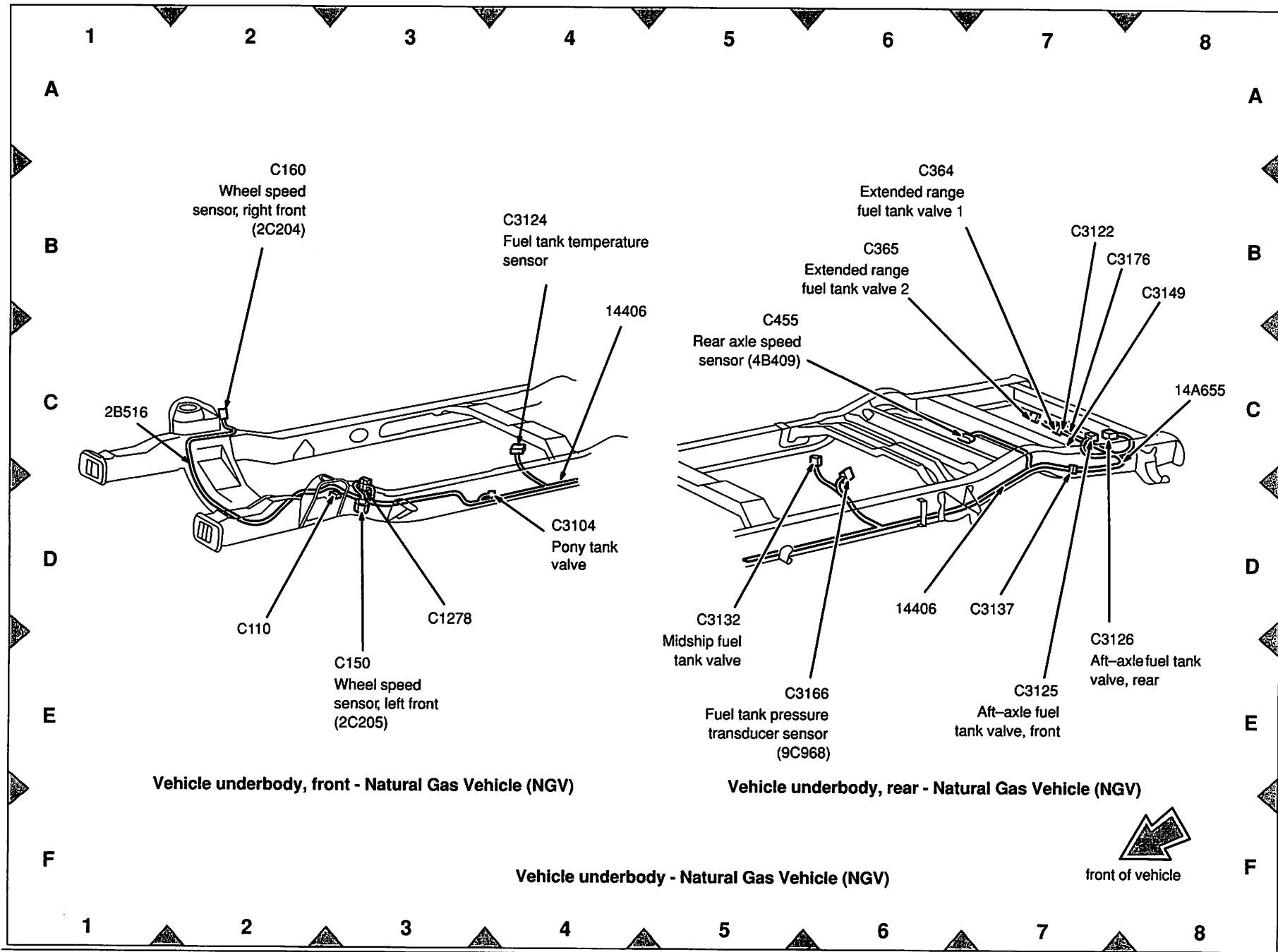


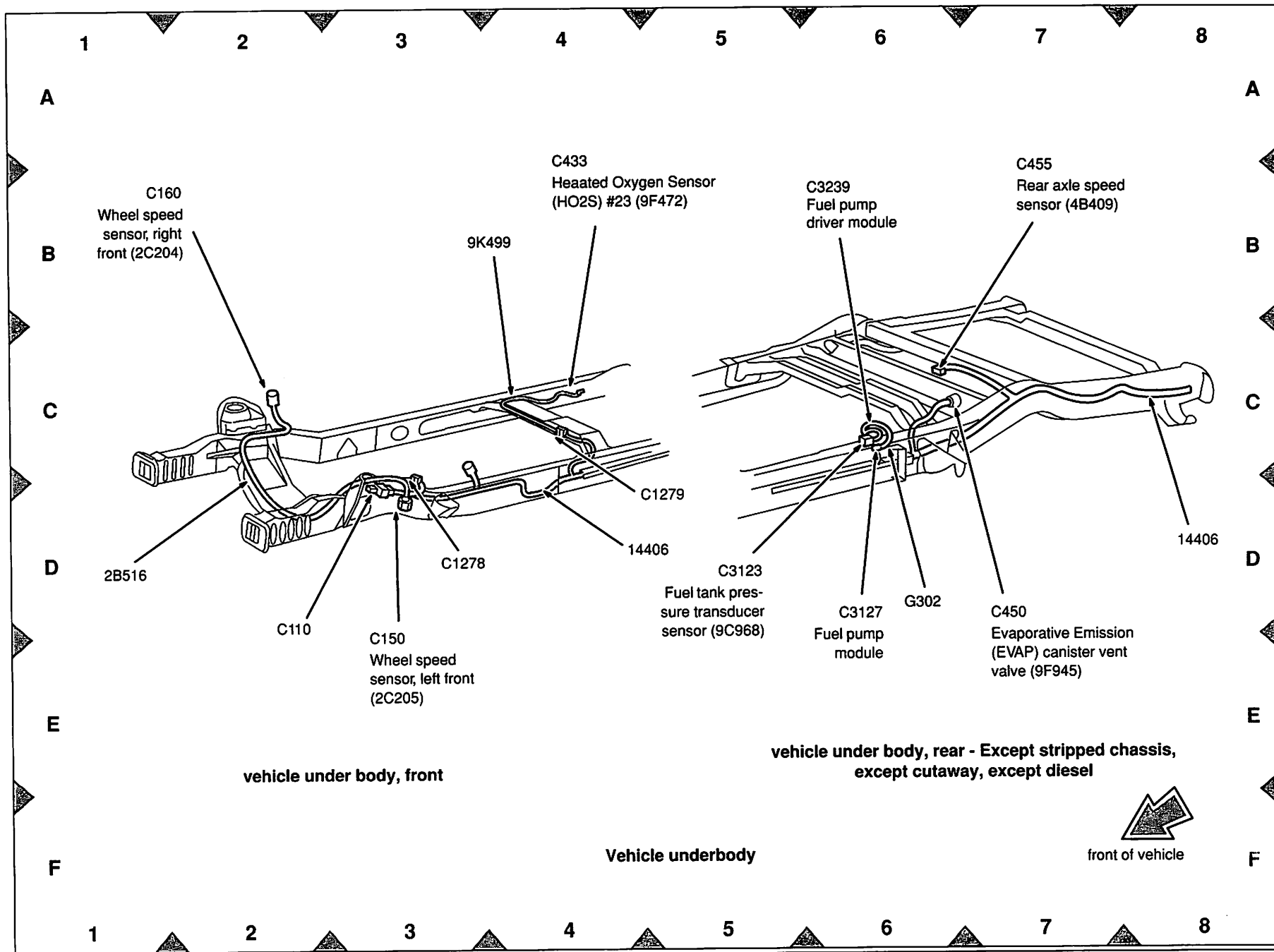


151-29 Component Location Views

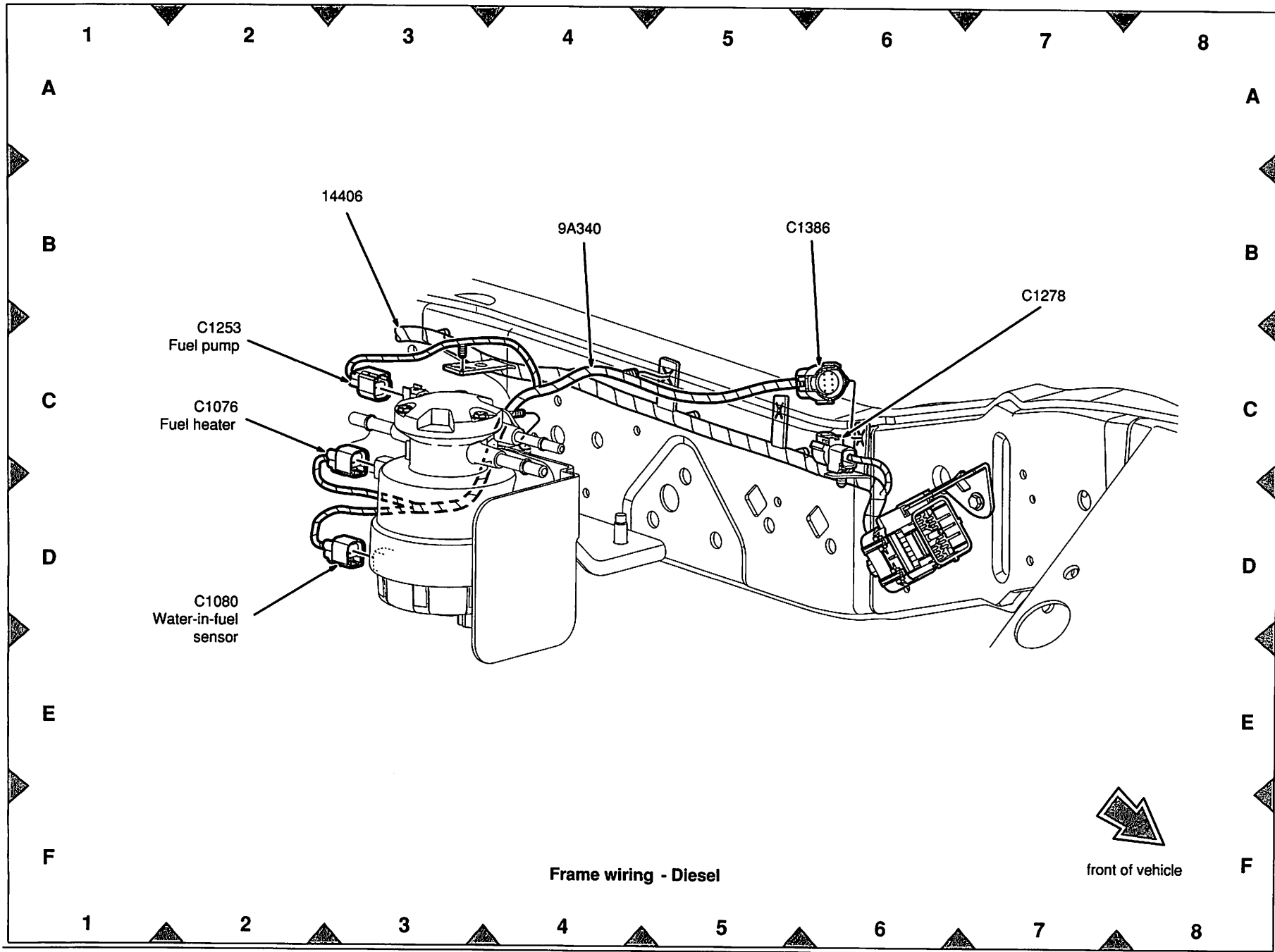


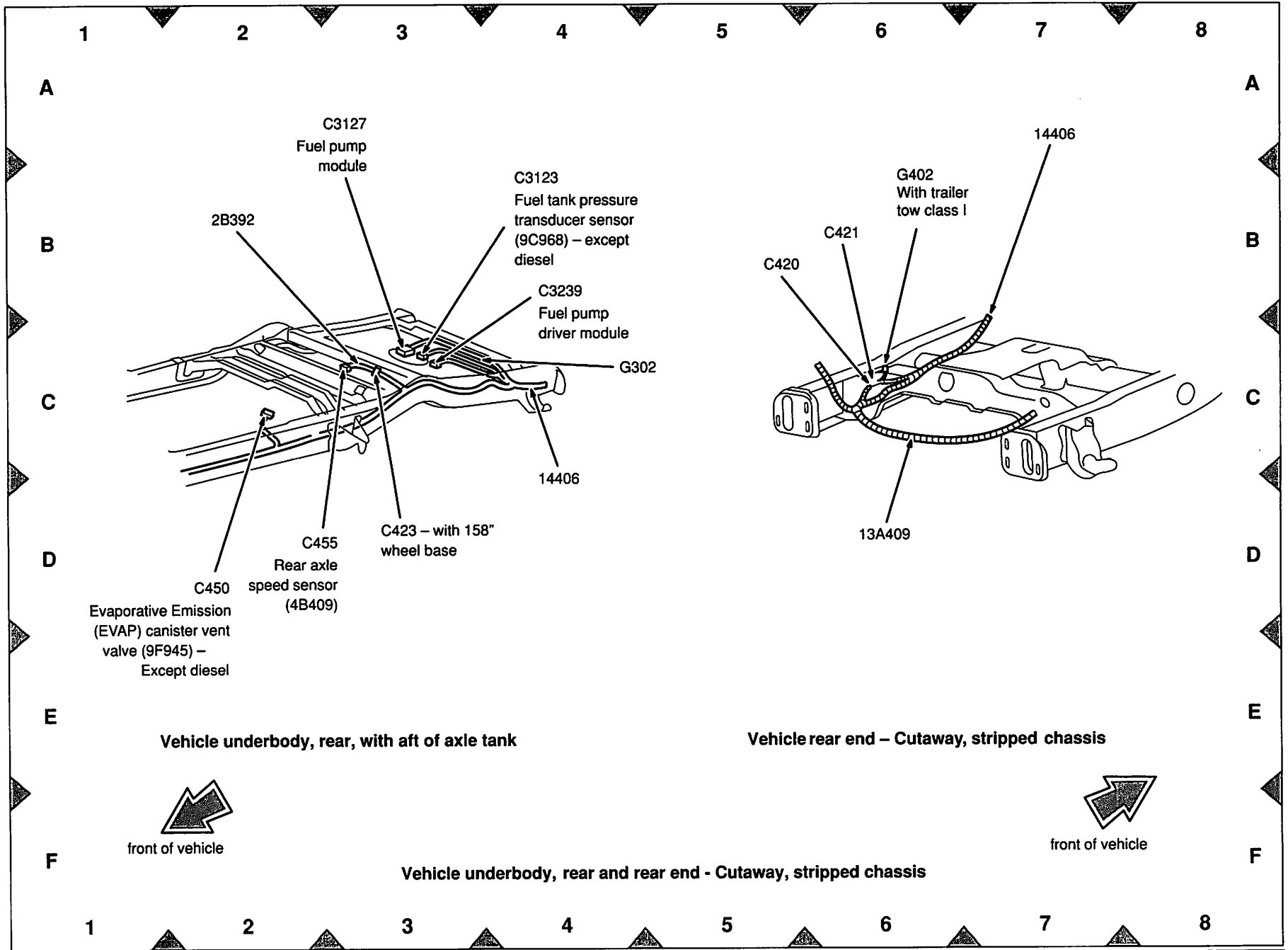


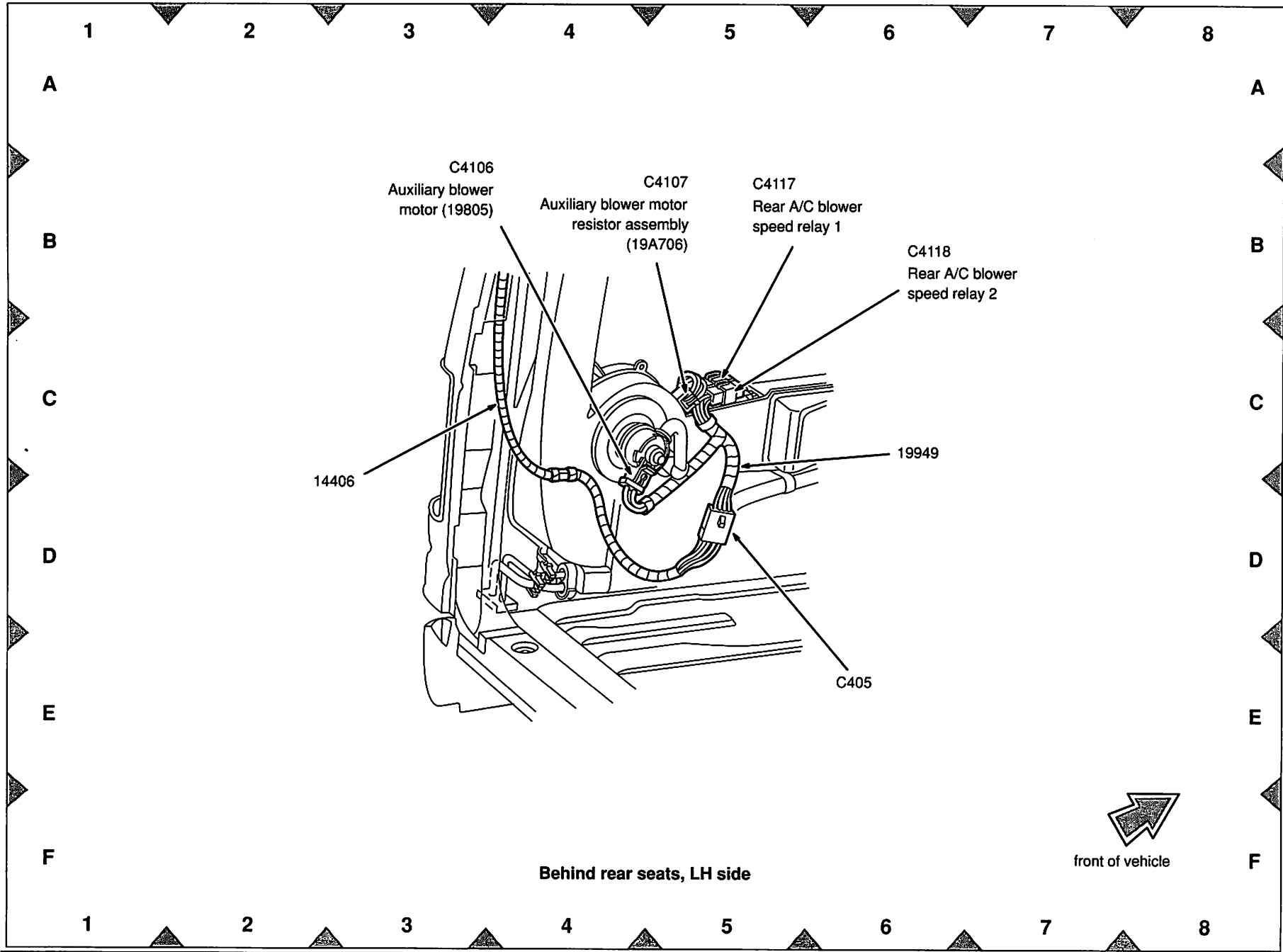


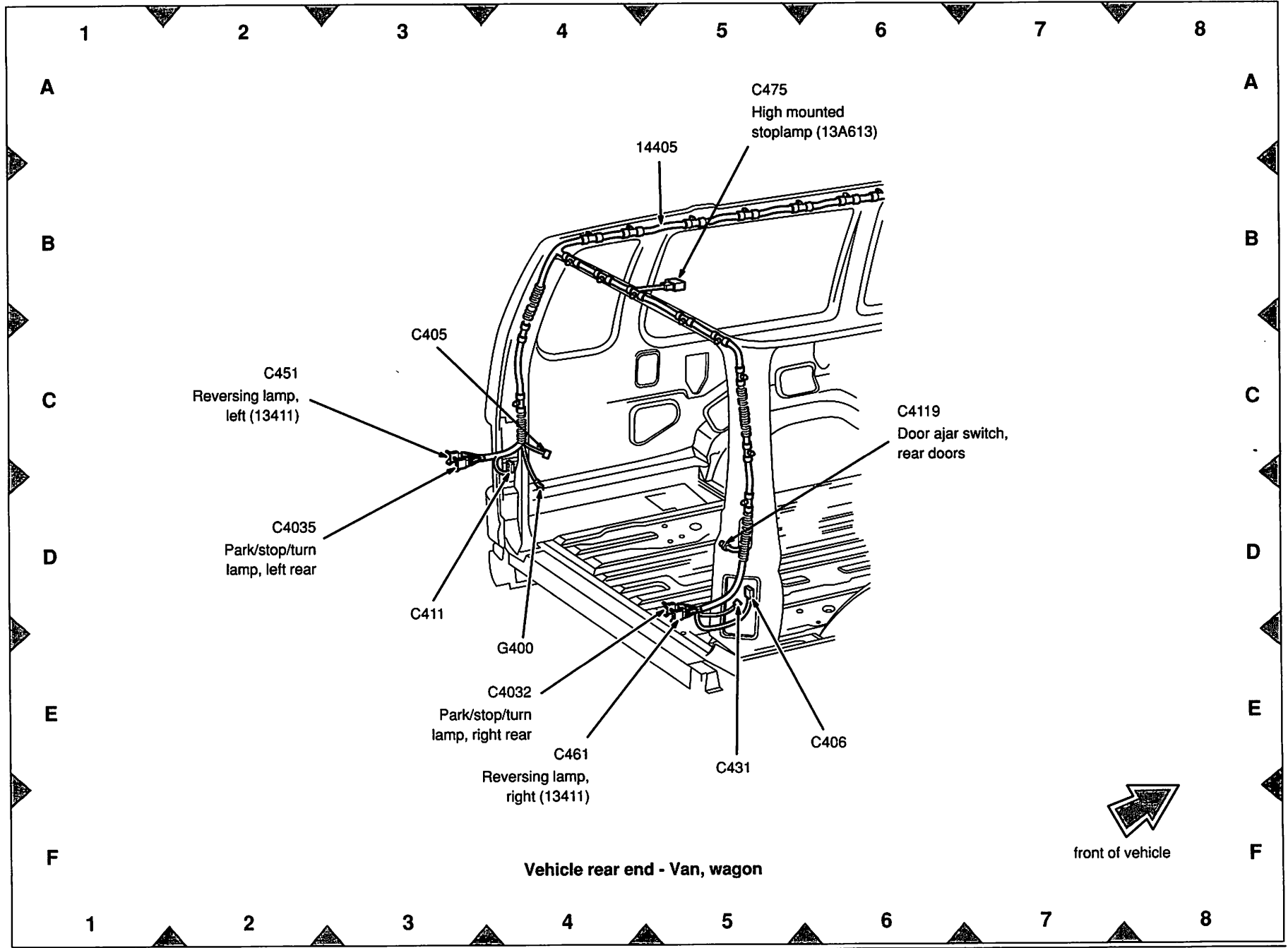


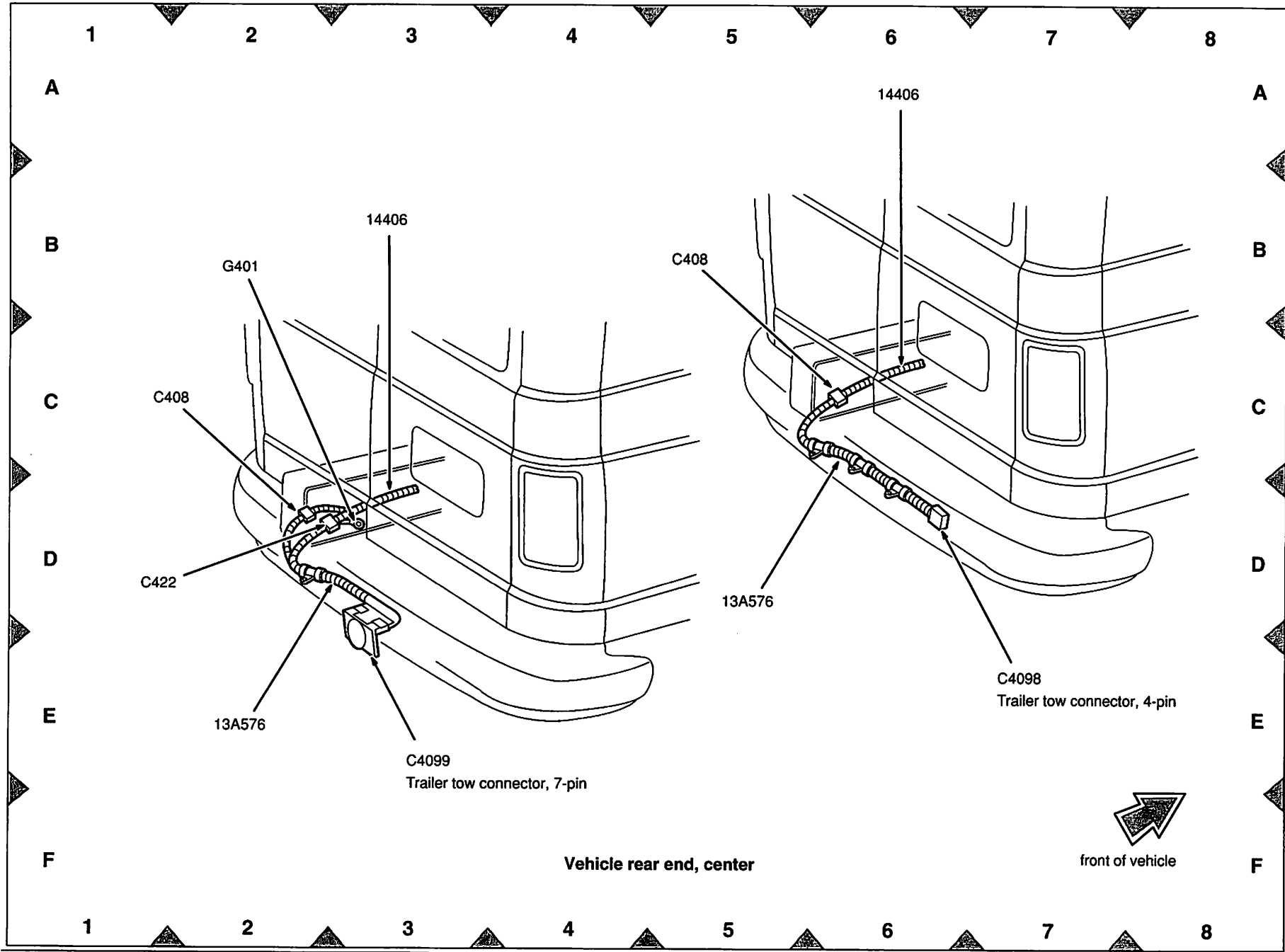
151-33 Component Location Views











Notes

Components	Cell 151
Location	Page/coordinates
4R100 transmission	
transmission, LH side, center	18-E6
4R70E transmission	
transmission, LH side center	19-F5
4R75E transmission	
transmission, LH side center	19-F5
ABS control module (2C219)	
engine compartment, LH side - diesel	3-E7
ABS control module (2C219)	
engine compartment, LH side - stripped chassis	4-E7
ABS control module (2C219)	
engine compartment, LH side - except stripped chassis, except diesel	2-E7
A/C clutch cycling pressure switch (19D594)	
engine compartment, RH side - diesel	3-B1
A/C clutch cycling pressure switch (19D594)	
engine compartment, RH side - except diesel	2-B1
A/C clutch relay	
in Auxiliary Relay Box 1 - diesel	3-C4
A/C clutch relay	
in Battery Junction Box (BJB)	2-E5
A/C clutch solenoid	
engine, front - 4.6L	12-C2
A/C clutch solenoid	
engine, front - 5.4L	14-D2
A/C clutch solenoid	
engine, front, bottom - 6.8L	16-D2
A/C clutch solenoid	
engine compartment, RH side - diesel	10-E7
A/C high pressure switch (19D594)	
engine compartment, RH side - diesel	9-D2
A/C high pressure switch (19D594)	
engine compartment, RH side - except stripped chassis, except diesel	2-A3
Accelerator pedal position sensor	
under dash panel, LH side	21-D4
Accessory delay relay	
in Battery Junction Box (BJB)	2-E5
Aft-axle fuel tank valve, front	
vehicle underbody, rear	31-E7
Aft-axle fuel tank valve, rear	
vehicle underbody, rear	31-D7
Air bag sliding contact (14A664)	
on steering column	21-E4
Air bag sliding contact (14A664)	
on steering column - stripped chassis	22-A4
Alternative Fuel Control Module (AFCM) diode	
in Battery Junction Box (BJB)	2-E5
Ambient air temperature sensor (19E702)	
front of vehicle, LH side	1-E6
Auxiliary battery relay - except diesel	
engine compartment, RH side, front	5-B5
Auxiliary blower motor (19805)	
behind rear seats, LH side	35-B3
Auxiliary blower motor resistor assembly (19A706)	
behind rear seats, LH side	35-B4
Auxiliary Powertrain Control Module (APCM)	
dash panel, LH side	21-D1
Auxiliary Relay Box 1 - diesel	
engine compartment RH side	3-C4
Auxiliary Relay Box 1 - except diesel	
engine compartment RH side	2-B6
Auxiliary Relay Box 1 - stripped chassis	
engine compartment LH side	4-D6
Auxiliary Relay Box 2 - except stripped chassis	
center	21-A4
Barometric Absolute Pressure (BAP) sensor	
dash panel, LH side	21-B1
Battery (10655)	
on frame rail, RH side - diesel	8-C6
Battery (10655)	
engine compartment, RH side, front - except diesel	5-A2
Battery II (10655)	
on frame rail, RH side - dual battery, diesel	8-D4
Battery II (10655)	
on frame rail, RH side - dual battery, except diesel	8-A2

Components	Cell 151
Location	Page/coordinates
Battery Junction Box (BJB) (14A003) engine compartment, LH side - diesel	3-B2
Battery Junction Box (BJB) (14A003) engine compartment, LH side	2-E5
Battery Junction Box (BJB) (14A003) engine compartment, LH side - stripped chassis	4-E6
Battery saver relay in Auxiliary relay box 2 - except stripped chassis	21-A4
Blower motor relay in Battery Junction Box (BJB)	2-E5
Blower motor resistor engine compartment, RH side - diesel	3-E3
Blower motor resistor engine compartment, RH side	2-A1
Brake fluid level switch (2L414) engine compartment, LH side - diesel	3-B7
Brake fluid level switch (2L414) engine compartment, LH side - except stripped chassis, except diesel	2-C8
Brake fluid level switch (2L414) engine compartment, LH side - stripped chassis	4-A6
Brake pedal position switch (13480) under dash panel, LH side	22-E3
Brake pressure switch (2B264) engine compartment, LH side - diesel	3-D8
Brake pressure switch (2B264) engine compartment, LH side	2-D5
Brake shift interlock on steering column	21-E3
Brake shift interlock on steering column - stripped chassis	22-D3
Camshaft position sensor (6B288) engine, front - 4.6L	12-E3
Camshaft position sensor (6B288) engine, front - 5.4L	14-C2
Camshaft position sensor (6B288) engine, front - 6.8L	16-B2
Camshaft position sensor (6B288) engine, front, center - diesel	9-F4
Cargo lamp in roof panel, rear	30-E7
Center air bag sensor front of vehicle, lower center of radiator support	1-E5
Central Junction Box (CJB) (14A068) instrument panel, LH side	21-A2
Central Junction Box (CJB) (14A068) instrument panel, LH side	22-B1
Cigar lighter, front (15055) dash panel, center	21-A4
Coil On Plug (COP) 1 (12029) engine, RH side, front - 4.6L	13-C7
Coil On Plug (COP) 1 (12029) engine, RH side, front - 5.4L	15-C7
Coil On Plug (COP) 1 (12029) engine, RH side, front - 6.8L	17-A6
Coil On Plug (COP) 10 (12029) engine, LH side, rear - 6.8L	16-D7
Coil On Plug (COP) 2 (12029) engine, RH side, center - 4.6L	13-D7
Coil On Plug (COP) 2 (12029) engine, RH side, center - 5.4L	15-D6
Coil On Plug (COP) 2 (12029) engine, RH side, center - 6.8L	17-A5
Coil On Plug (COP) 3 (12029) engine, RH side, center - 4.6L	13-E6
Coil On Plug (COP) 3 (12029) engine, RH side, center - 5.4L	15-D6
Coil On Plug (COP) 3 (12029) engine, RH side, center - 6.8L	17-A4
Coil On Plug (COP) 4 (12029) engine, RH side, rear - 4.6L	13-E6
Coil On Plug (COP) 4 (12029) engine, RH side, rear - 5.4L	15-E5
Coil On Plug (COP) 4 (12029) engine, RH side, rear - 6.8L	17-A4

Components	Cell 151
Location	Page/coordinates
Coil On Plug (COP) 5 (12029) engine, RH side, front - 4.6L	12-E5
Coil On Plug (COP) 5 (12029) engine, RH side, front - 5.4L	14-E5
Coil On Plug (COP) 5 (12029) engine, RH side, front - 6.8L	17-B2
Coil On Plug (COP) 6 (12029) engine, LH side, front - 4.6L	12-E6
Coil On Plug (COP) 6 (12029) engine, LH side, front - 5.4L	14-D6
Coil On Plug (COP) 6 (12029) engine, LH side, front - 6.8L	16-A3
Coil On Plug (COP) 7 (12029) engine, LH side, center - 4.6L	12-D7
Coil On Plug (COP) 7 (12029) engine, LH side, center - 5.4L	14-A6
Coil On Plug (COP) 7 (12029) engine, LH side, front - 6.8L	16-B6
Coil On Plug (COP) 8 (12029) engine, LH side, rear - 4.6L	12-C7
Coil On Plug (COP) 8 (12029) engine, LH side, rear - 5.4L	14-B6
Coil On Plug (COP) 8 (12029) engine, LH side, center - 6.8L	16-B6
Coil On Plug (COP) 9 (12029) engine, LH side, center - 6.8L	16-C6
Crankshaft position sensor (6C315) engine, front, bottom - 4.6L	12-D2
Crankshaft position sensor (6C315) engine, front, bottom - 5.4L	14-E2
Crankshaft position sensor (6C315) engine, front, bottom - 6.8L	16-D2
Crankshaft position sensor (6C315) engine, RH side, bottom, center - diesel	10-E6
Cylinder head temperature sensor (6G004) engine, front, bottom - 4.6L	12-A4
Cylinder head temperature sensor (6G004) engine, front - 5.4L	14-B4
Cylinder head temperature sensor (6G004) engine, front - 6.8L	16-B4
Data Link Connector (DLC) (14489) under dash panel, LH side	21-E3
Data Link Connector (DLC) (14489) under instrument panel - stripped chassis	22-D6
Daytime Running Lamps (DRL) module front of vehicle, RH side of center radiator support, behind front grill - except stripped chassis	1-B5
Daytime Running Lamps (DRL) module engine compartment, RH side, rear - stripped chassis	4-D4
Differential Pressure Feedback EGR (DPFE) sensor (9J460) engine, LH side, rear - 4.6L	13-A2
Differential Pressure Feedback EGR (DPFE) sensor (9J460) engine, LH side, rear - 5.4L	14-A4
Digital Transmission Range (DTR) sensor (7F293) transmission, RH side, center - 4R100	18-F3
Digital Transmission Range (DTR) sensor (7F293) transmission, RH side, center - 4R70E/4R75E	19-F4
Door ajar switch, left front LH side, A-pillar	21-E2
Door ajar switch, rear doors vehicle rear end, RH side	36-C6
Door ajar switch, right front RH side, A-pillar	23-F5
Door lock actuator, left front in driver door, rear, center	26-D2
Door lock actuator, rear doors in RH rear door, LH side	28-A3
Door lock actuator, right front in passenger door, rear, center	26-D2
Door lock switch, rear doors in RH rear door, RH side	28-F3
Driver safety belt retractor pretensioner driver seat	24-E3

Components	Cell 151
Location	Page/coordinates
Driver seat front height motor in driver's seat face	24-A7
Driver seat horizontal motor in driver's seat face	24-C7
Driver seat rear height motor in driver's seat face	24-B7
Dual pressure switch (19D594) engine, RH side, bottom, front	10-D7
EGR vacuum regulator solenoid (9J459) engine, top - 4.6L	13-A3
EGR vacuum regulator solenoid (9J459) engine, top - 5.4L	15-B2
EGR valve actuator engine, center, top	10-A6
Electronic fan clutch engine, front, top	9-D1
Electronic flasher module under dash panel, LH side	21-C2
Electronic flasher module - stripped chassis under dash panel, LH side	22-A2
Electronic Throttle Control (ETC) motor engine, top, center	10-B7
Engine Coolant Temperature (ECT) sensor (12A648) engine, center, front	9-E2
Engine Oil Temperature (EOT) sensor engine, center	10-B7
EVAP canister purge valve engine, rear - 4.6L	13-E4
EVAP canister purge valve engine, top - 5.4L	15-B4
EVAP canister purge valve engine, RH side, rear - 6.8L	17-E4
EVAP canister purge valve engine compartment, RH side - stripped chassis	4-A2

Evaporative emission (EVAP) canister vent valve (9F945) vehicle rear end, LH side - cutaway/stripped chassis ..	34-D1
Evaporative emission (EVAP) canister vent valve (9F945) vehicle rear end, LH side - except cutaway/stripped chassis	32-D7
Exhaust Back Pressure (EBP) sensor engine, LH side, front, top	9-E2
Extended range fuel tank valve 1 vehicle underbody, rear	31-B6
Extended range fuel tank valve 2 vehicle underbody, rear	31-B6
Exterior rear view mirror switch (17B676) in driver door, front, top	26-E4
Exterior rear view mirror, driver side (17682) in driver door, front, top	26-B6
Exterior rear view mirror, passenger side (17683) in passenger door, front, top	26-B6
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Fuel injector 6 (9F593) engine, RH side, center, rear - diesel	9-A7
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engine, top	
Fusible link I	
engine compartment, RH side	
Fusible link J	
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Fusible link K	
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Fusible link L	
engine compartment, LH side - with dual generators	
Fusible link M	
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engine compartment, LH side attached to glow plug module - diesel	
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Injector Pressure Sensor (IPS) engine, LH side - 5.4L	14-A6
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Knock sensor (12A699) engine, rear - 5.4L	15-C2	Oil pressure switch (9278) engine, bottom - 6.8L 16-E3
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C100	engine, front - 4.6L	12 - C 2
C101	engine, RH side, bottom, center - diesel	10 - E 6
C101	engine, front, bottom - 4.6L	12 - D 2
C101	engine, front, bottom - 5.4L	14 - E 2
C101	engine, front, bottom - 6.8L	16 - D 2
C102a	generator	6 - C 2
C102b	generator	6 - B 2
C102c	generator	6 - C 2
C103	engine, bottom - 4.6L	12 - E 4
C103	engine, bottom - 5.4L	14 - E 4
C103	engine, bottom - 6.8L	16 - E 3
C103	engine, center, top - diesel	10 - B 7
C104	engine, center, top - diesel	10 - B 7
C106	engine, front - 5.4L	15 - B 6
C108	engine, rear - 5.4L	15 - C 2
C108	engine, rear - 4.6L	13 - A 4
C110	engine compartment, LH side - stripped chassis	4 - F 5
C110	engine compartment, LH side	2 - E 6
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C111	engine, RH side, front - 4.6L	13 - C 7
C111	engine, RH side, front - 6.8L	17 - A 5
C112	engine, RH side, center - 5.4L	15 - D 6
C112	engine, RH side, center - 6.8L	17 - A 5
C112	engine, RH side, center - 4.6L	13 - D 7
C113	engine, RH side, center - 6.8L	17 - A 4
C113	engine, RH side, center - 4.6L	13 - E 6
C113	engine, RH side, center - 5.4L	15 - D 6
C114	engine, RH side, rear - 6.8L	17 - A 4
C114	engine, RH side, rear - 4.6L	13 - E 6

C114	engine, RH side, rear - 5.4L	15 - E 5
C115	engine, LH side, front - 4.6L	12 - E 5
C115	engine, RH side, front - 5.4L	14 - E 5
C115	engine, RH side, rear - 6.8L	17 - B 2
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C116	engine, LH side, front - 5.4L	14 - D 6
C116	engine, LH side, front - 4.6L	12 - E 6
C117	engine, LH side, center - 4.6L	12 - D 7
C117	engine, LH side, front - 6.8L	16 - B 6
C117	engine, LH side, center - 5.4L	14 - A 6
C118	engine, LH side, rear - 5.4L	14 - B 6
C118	engine, LH side, rear - 4.6L	12 - C 7
C118	engine, LH side, center - 6.8L	16 - B 6
C122	engine compartment, LH side	2 - D 7
C123	engine, RH side, rear - 6.8L	17 - E 4
C123	engine compartment, RH side - stripped chassis	4 - A 2
C123	engine, rear - 4.6L	13 - E 4
C123	engine, top - 5.4L	15 - B 4
C124	engine compartment, LH side - stripped chassis	4 - A 6
C124	engine compartment, LH side	2 - C 8
C124	engine compartment, LH side - diesel	3 - B 7
C125	engine compartment, LH side, rear	2 - A 6
C125	engine compartment, LH side, rear - diesel	3 - A 7
C127	engine compartment, LH side, rear - diesel	3 - B 5
C128	engine compartment, LH side	4 - E 4
C128	engine compartment - diesel	3 - A 5
C128	engine compartment, center	2 - E 5
C130	engine compartment, RH side	2 - B 1
C130	engine compartment, RH side - diesel	3 - B 1
C131	engine compartment, LH side, rear - diesel	3 - B 5
C132	front of vehicle, LH side	1 - E 6
C133	engine compartment, RH side - stripped chassis	4 - C 3
C133	engine, front - 6.8L	17 - B 7
C133	engine, front - 4.6L	13 - B 7
C133	engine, front - 5.4L	15 - B 7
C133	engine compartment, RH side	2 - E 3

Connectors		Cell 151
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C134	engine, front - 6.8L	17 - B 7
C134	engine, front - 4.6L	13 - B 7
C134	engine compartment, RH side	2 - D 4
C135	engine compartment, LH side - stripped chassis	4 - E 7
C135	engine compartment, LH side	2 - E 7
C135	engine compartment, LH side - diesel	3 - E 7
C136	engine, RH side, rear - 6.8L	17 - B 1
C137	engine compartment, RH side	2 - E 3
C137	engine compartment, RH side - diesel	3 - E 3
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C139	engine, front - 4.6L	13 - B 7
C139	engine compartment, RH side	2 - D 4
C139	engine compartment, RH side - stripped chassis	4 - B 2
C139	engine, front - 6.8L	17 - B 7
C139	engine, front - 5.4L	15 - B 7
C140	engine compartment, LH side, rear - diesel	3 - A 6
C140	engine compartment, LH side, rear	2 - B 7
C141	transmission, center, rear - 4R100	18 - C 6
C141	transmission, LH side, rear - 4R70E/4R75E	19 - C 7
C142	transmission, RH side, rear - 4R70E/4R75E	19 - C 7
C142	transmission, center, rear - 4R100	18 - C 7
C143	transmission, top, center - 4R100	18 - B 2
C144	engine compartment, RH side	1 - C 2
C144	engine compartment, RH side	2 - E 1
C145	engine compartment, RH side	2 - A 3
C145	engine compartment, RH side - stripped chassis	4 - F 2
C146	engine compartment, LH side, rear	2 - B 6
C146	engine compartment, LH side, rear - stripped chassis	4 - C 6
C146	engine compartment, RH side	2 - B 6
C147	on transmission, RH side, center - diesel	11 - C 7
C148	transmission, top, rear - diesel	11 - D 6
C150	behind wheel, LH side	32 - E 3
C150	behind wheel, LH side - NGV	31 - E 3
C152	transmission, top, center - diesel	11 - E 2
C160	behind wheel, RH side - NGV	31 - B 2
C160	behind wheel, RH side	32 - B 1
C167	transmission, LH side, center - 4R100	18 - E 3
C167	transmission, LH side - 4R70E/4R75E	19 - F 4
C168	transmission, RH side, center - 4R100	18 - E 6
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C171	engine, RH side, rear - 6.8L	17 - E 3
C171	engine, RH side, rear - 5.4L	15 - E 4
C172	engine, rear - 5.4L	15 - D 2
C172	engine, rear - 4.6L	13 - C 2
C172	engine, rear - 6.8L	17 - D 2
C174	engine, front - 5.4L	14 - C 2
C174	engine, front, LH side - 6.8L	16 - A 4
C174	engine, front, RH side - 4.6L	12 - B 2
C175	engine compartment, LH side, rear	2 - A 4
C175	engine compartment, LH side, rear - stripped chassis	4 - A 4
C176a	engine compartment, LH side, rear - diesel	3 - D 5
C176b	engine compartment, LH side, rear - diesel	3 - D 5
C176c	engine compartment, LH side, rear - diesel	3 - D 5
C177	front of vehicle, lower center of radiator support, behind front grill	1 - E 5
C180	engine, front - 5.4L	14 - C 2
C180	engine, front - 4.6L	12 - E 3
C180	engine, front - 6.8L	16 - B 2
C181	engine, RH side, front - 5.4L	15 - A 7
C181	engine, RH side, front - 4.6L	13 - C 7
C182	engine, RH side, center - 5.4L	15 - B 5
C182	engine, RH side, center - 4.6L	13 - B 6
C183	engine, RH side, center - 4.6L	13 - A 6
C183	engine, RH side, center - 5.4L	15 - A 5
C184	engine, RH side, rear - 4.6L	13 - B 5
C184	engine, RH side, rear - 5.4L	15 - A 3
C185	engine, LH side, front - 4.6L	12 - B 5

Connectors

Cell 151

	Location	Page/coordinates
C185	engine, LH side, front - 5.4L	14 - E 6
C186	engine, LH side, front - 5.4L	14 - D 7
C186	engine, LH side, front - 4.6L	12 - B 6
C187	engine, LH side, center - 4.6L	12 - E 7
C187	engine, LH side, center - 5.4L	14 - C 7
C188	engine, LH side, rear - 5.4L	14 - C 7
C188	engine, LH side, rear - 4.6L	12 - C 7
C189	engine, LH side, front - 4.6L	12 - A 5
C189	engine, LH side, front - 5.4L	14 - A 5
C189	engine, top - 6.8L	16 - A 5
C191	engine, front - 4.6L	12 - B 3
C192	transmission, top, center - 4R70E/4R75E	19 - B 5
C192	transmission, top, center - 4R100	18 - B 2
C193	transmission, rear, center - 4R100	18 - D 7
C193	transmission, LH side, center - 4R70E/4R75E	19 - E 2
C194	engine, RH side - 5.4L	14 - B 2
C194	engine, RH side - 6.8L	17 - A 6
C194	engine, LH side - 4.6L	12 - E 3
C195	transmission, top, center - diesel	11 - B 5
C197a	engine, RH side - except diesel	7 - B 1
C197a	engine, RH side - diesel	7 - A 5
C197b	engine, RH side - diesel	7 - A 6
C197b	engine, RH side - except diesel	7 - A 3
C202a	dash panel, LH side	21 - D 5
C202a	dash panel, LH side - stripped chassis	22 - A 3
C202b	dash panel, LH side	21 - D 5
C202b	dash panel, LH side - stripped chassis	22 - A 3
C203a	kick panel, RH side	23 - D 4
C203b	kick panel, RH side	23 - D 4
C205	dash panel, LH side	21 - A 2
C205	dash panel, LH side - stripped chassis	22 - F 7
C210	kick panel, RH side	23 - C 7
C211	kick panel, RH side	23 - C 7
C212	kick panel, RH side	23 - C 7
C213	dash panel, LH side - stripped chassis	22 - E 4
C218a	on steering column	21 - E 4

C218a	on steering column - stripped chassis	22 - A 4
C218b	on steering column	21 - E 4
C219	engine compartment, LH side, rear	2 - C 8
C219	engine compartment, LH side, rear - diesel	3 - C 8
C219	engine compartment, LH side, rear - stripped chassis	4 - A 7
C220a	dash panel, LH side	21 - A 3
C220a	dash panel, LH side - stripped chassis	22 - E 6
C220b	dash panel, LH side	21 - A 3
C220b	dash panel, LH side - stripped chassis	22 - E 6
C237	engine compartment, LH side, rear - diesel	3 - C 8
C237	engine compartment, LH side, rear	2 - B 7
C238	dash panel, LH side	21 - B 3
C248	dash panel, LH side	21 - C 1
C250	on steering column	21 - E 4
C250	on steering column - stripped chassis	22 - D 3
C251	under dash panel, LH side	21 - E 3
C251	under dash panel, LH side - stripped chassis	22 - D 6
C256	dash panel, RH side	21 - A 7
C275	dash panel, LH side	22 - F 6
C278	under dash panel, LH side	21 - D 3
C278	under dash panel, LH side - stripped chassis	22 - E 4
C282	kick panel, LH side - stripped chassis	22 - C 6
C282	kick panel, RH side	23 - E 4
C289	dash panel, RH side	23 - C 4
C291	dash panel, LH side - stripped chassis	22 - D 6
C294a	dash panel, center	21 - A 5
C294b	dash panel, center	21 - A 5
C294c	dash panel, center	21 - A 5
C294d	dash panel, center	21 - A 5
C294e	dash panel, center	21 - A 5
C298	dash panel, LH side	22 - D 6
C299	LH side, B-pillar, bottom	29 - C 7
C303	under passenger seat	24 - E 3
C310a	under driver seat	25 - D 6
C310b	under driver seat	25 - E 6
C311	LH side, B-pillar, bottom	29 - F 4
C312	LH side, B-pillar, bottom - cutaway	29 - D 7
C313	center of vehicle, RH side	27 - D 2
C314	center of vehicle, RH side	27 - E 3

Connectors

Cell 151

	Location	Page/coordinates
C315	top, B-pillar	30 - B 2
C316	LH side, B-pillar - cutaway	29 - A 7
C323	driver seat	24 - E 3
C328	LH side, B-pillar	29 - A 4
C329	RH side on frame rail	8 - F 3
C340	vehicle floor, center	25 - E 1
C353	in driver's seat face	24 - A 5
C360	driver seat	24 - A 5
C362	in driver's seat face	24 - C 7
C363	in driver's seat face	24 - B 7
C364	vehicle underbody, rear - NGV	31 - B 6
C365	vehicle underbody, rear - NGV	31 - B 6
C380	LH side, B-pillar	29 - B 1
C382	in driver's seat face	24 - A 7
C398	RH side, B-pillar, center	27 - B 5
C405	behind rear seats, LH side	35 - E 6
C406	RH rear door, RH side	28 - C 2
C408	vehicle rear end, LH side - with 4-pin trailer tow connector	37 - B 5
C408	vehicle rear end, LH side - with 7-pin trailer tow connector	37 - C 1
C411	LH rear door, LH side	28 - C 8
C420	vehicle rear end, LH side - cutaway/stripped chassis	34 - B 5
C421	vehicle rear end, LH side - cutaway/stripped chassis	34 - B 6
C422	vehicle rear end, LH side	37 - D 2
C423	vehicle underbody, rear axle - cutaway/stripped chassis	34 - D 3
C431	RH rear door, RH side	28 - C 2
C433	RH frame rail, rear of crossmember	32 - A 4
C450	vehicle rear end, LH side - cutaway/stripped chassis	34 - D 1
C450	vehicle rear end, LH side	32 - D 7
C451	vehicle rear end, LH side - Van/wagon	36 - C 2
C455	vehicle underbody, rear axle	32 - A 7

C455	vehicle underbody, rear axle	34 - D 2
C455	vehicle underbody, rear axle - NGV	31 - C 5
C461	vehicle rear end, RH side - Van/wagon	36 - E 4
C475	vehicle rear end, top center - Van/wagon	36 - A 5
C484	in LH rear door, center	28 - B 8
C485	in RH rear door, center	28 - A 3
C508	in driver door, top, center	26 - A 4
C521	in driver door, front, top	26 - B 6
C523	in driver door, top	26 - A 5
C524	in driver door, center	26 - E 2
C525	in driver door, rear, center	26 - D 2
C527	in driver door, front, top	26 - E 4
C601	in passenger door, front, top	26 - B 6
C603	in passenger door, rear, center	26 - D 2
C608	in passenger door, center	26 - E 2
C612	in passenger door, top	26 - A 5
C629	in passenger door, top, center	26 - A 4
C807	sliding door, front	27 - E 7
C813	sliding door, front - with sliding side door	27 - E 6
C813	hinged side door, center - with hinged side door	27 - B 2
C816	hinged side door, RH side, B-pillar	27 - C 2
C817	hinged side door, RH side, center - with hinged side door	27 - C 4
C817	sliding door, center, top - with sliding side door	27 - D 7
C901	in roof panel, rear	30 - D 2
C906	in roof panel, RH side, front	30 - A 7
C907	in roof panel, LH side, front	30 - A 2
C913	in roof panel, rear	30 - E 2
C919	top, B-pillar	30 - B 2
C925	top, B-pillar	30 - B 2
C926	in roof panel, rear	30 - E 7
C929	in roof panel, center, front	30 - A 7
C930	in roof panel, center, front	30 - A 2
C931	in roof panel, center, front	30 - A 7
C935	in roof panel, center, front	30 - C 6
C936	in roof panel, center, rear	30 - D 6
C976	in roof panel, LH side	30 - B 7
C977	in roof panel, RH side	30 - B 7

Connectors

Cell 151

	Location	Page/coordinates
C981	in roof panel, center	30 - C 2
C983	top, B-pillar	30 - B 2
C1009	engine compartment, LH side	2 - C 8
C1010	engine compartment, RH side - stripped chassis	4 - B 1
C1017A	engine compartment, RH side, behind battery - except diesel	5 - B 5
C1017B	engine compartment, RH side, behind battery - except diesel	5 - B 8
C1017C	engine compartment, RH side, rear	5 - A 7
C1019	engine compartment - dual generators	6 - C 8
C1021	front of vehicle, LH side	1 - A 6
C1023	front of vehicle, LH side	1 - D 7
C1025	engine compartment, LH side - diesel	3 - D 8
C1025	engine compartment, LH side	2 - D 5
C1026	engine compartment, RH side - stripped chassis	4 - D 2
C1030	front of vehicle, RH side of center radiator support, behind front grill	1 - B 5
C1030	engine compartment, RH side - stripped chassis	4 - D 4
C1033	engine compartment, center	2 - C 5
C1033	engine compartment, center - stripped chassis	4 - C 4
C1035a	engine compartment, LH side - stripped chassis	4 - E 6
C1035a	engine compartment, LH side - diesel	3 - B 2
C1035a	engine compartment, LH side	2 - E 4
C1036	engine, LH side - 4.6L	12 - B 7
C1036	engine, LH side - 5.4L	14 - A 6
C1041	front of vehicle, RH side	1 - B 3
C1043	front of vehicle, RH side	1 - D 2
C1045	engine, rear - 5.4L	15 - D 2
C1045	engine, rear - 6.8L	17 - D 3
C1045	engine, rear - 4R70E/4R75E	19 - A 5
C1045	transmission, top, center - 4R100	18 - A 4
C1046	engine, front - 6.8L	16 - A 5

C1046	engine, front - 4.6L	12 - B 4
C1046	engine, front - 5.4L	14 - B 5
C1047	engine, front - 6.8L	16 - A 4
C1047	engine, front - 5.4L	14 - B 4
C1047	engine, front - 4.6L	12 - A 4
C1052	top, LH side of engine, rear	9 - B 7
C1062	engine, RH side, bottom, front - diesel	10 - D 7
C1064	engine, center, front - diesel	9 - E 2
C1066	engine, top - 6.8L	17 - A 3
C1066	engine, top - 5.4L	15 - A 3
C1066	engine, top - 4.6L	13 - A 4
C1068	engine, LH side, rear - 4.6L	13 - A 2
C1068	engine, LH side, center - 5.4L	14 - A 4
C1072	engine, top - 4.6L	13 - A 3
C1072	engine, top - 5.4L	15 - B 2
C1076	LH side, frame, center - diesel	33 - C 2
C1078	engine compartment, RH side	2 - A 3
C1078	engine compartment, RH side	2 - A 3
C1080	LH side, frame, center - diesel	33 - D 2
C1087	engine compartment, RH side - diesel	3 - A 2
C1100a	on frame rail, RH side - diesel	8 - B 7
C1100a	engine compartment, RH side, front - except diesel	5 - A 2
C1100b	on frame rail, RH side - diesel	8 - C 6
C1100b	engine compartment, RH side, front - except diesel	5 - A 4
C1158	engine, LH side, front, top	9 - D 2
C1181	engine, RH side, front - 6.8L	17 - C 7
C1182	engine, RH side, front - 6.8L	17 - D 6
C1183	engine, RH side, front - 6.8L	17 - E 6
C1184	engine, RH side, front - 6.8L	17 - E 5
C1185	engine, RH side, front - 6.8L	17 - E 5
C1186	engine, LH side, front - 6.8L	16 - E 4
C1191	engine, RH side, front - diesel	9 - C 1
C1192	engine, LH side, front - diesel	10 - A 4
C1193	engine, RH side, center front - diesel	10 - F 3
C1194	engine, LH side, engine rear - diesel	9 - C 7
C1195	engine, RH side, center rear - diesel	10 - E 3
C1196	engine, LH side, center rear - diesel	9 - A 7
C1197	engine, RH side, rear - diesel	10 - D 2

Connectors

Cell 151

	Location	Page/coordinates
C1198	engine, LH side, rear - diesel	10 - C 2
C1204	engine, LH side, center - 6.8L	16 - E 6
C1205	engine, LH side, rear - 6.8L	16 - C 7
C1206	engine, LH side, center - 6.8L	16 - C 6
C1207	engine, LH side, rear - 6.8L	16 - D 7
C1227	engine compartment, RH side - diesel	3 - D 1
C1227	engine compartment, RH side	2 - C 1
C1228	engine compartment, RH side	2 - A 1
C1228	engine compartment, RH side - diesel	3 - E 3
C1236	engine, LH side, center - diesel	9 - E 7
C1244	engine, RH side - diesel	10 - C 7
C1249a	on frame rail, RH side - dual battery, except diesel	8 - A 3
C1249a	on frame rail, RH side - dual battery, diesel	8 - C 5
C1249b	on frame rail, RH side - dual battery, except diesel	8 - A 2
C1249b	on frame rail, RH side - dual battery, diesel	8 - D 4
C1251a	generator, secondary - dual generators	6 - D 5
C1251b	generator, secondary - dual generators	6 - E 5
C1253	LH side, frame, center - diesel	33 - C 2
C1254	engine compartment, LH side	2 - A 5
C1256	engine compartment, RH side - stripped chassis	4 - E 3
C1256	front of vehicle, RH side of lower center of radiator support, behind front grill	1 - E 4
C1257	engine, RH side, center	15 - A 5
C1258	engine, RH side, rear	15 - E 6
C1271	engine, LH side, front, top - diesel	9 - E 2
C1274	transmission, RH side	19 - F 5
C1278	front of vehicle, LH side, frame - diesel	33 - B 7
C1278	LH side, frame, front	32 - D 3
C1278	LH side, frame, front - NGV	31 - D 3
C1279	frame, center, crossmember	32 - D 4
C1283a	engine compartment, RH side, front	5 - C 5
C1283b	engine compartment, RH side, front	5 - E 5
C1283c	engine compartment, RH side, front	5 - B 5

C1284	front of vehicle, LH side	1 - A 6
C1285	front of vehicle, RH side	1 - B 3
C1301a	engine, RH side, top - diesel	9 - B 7
C1301b	engine, RH side, top - diesel	9 - B 7
C1302	engine, LH side, front - diesel	10 - A 5
C1312	engine, LH side, center - 6.8L	16 - E 5
C1313	engine, LH side, center - 6.8L	16 - E 6
C1360	engine, rear, center, top - diesel	10 - D 2
C1368	engine, center, top - diesel	10 - B 7
C1375	engine, center, front - diesel	9 - F 4
C1386	LH side, frame, front - diesel	33 - B 5
C1388a	engine, LH side, rear - diesel	3 - B 8
C1388b	engine, LH side, rear - diesel	3 - B 8
C1388c	engine, LH side, rear - diesel	3 - B 8
C1389	engine, center, top - diesel	10 - A 6
C1390	engine, LH side, top - diesel	9 - A 5
C1413	engine, LH side, center, above exhaust manifold - diesel	9 - E 6
C1414	engine, RH side, center, above exhaust manifold - diesel	10 - D 7
C2008	on steering column	21 - E 3
C2008	on steering column - stripped chassis	22 - D 3
C2015	under dash panel, LH side	21 - E 2
C2015	under dash panel, LH side - stripped chassis	22 - E 2
C2031	dash panel, center	21 - A 4
C2033	dash panel, center	21 - A 4
C2040	under dash panel, LH side	21 - D 4
C2135	dash panel, LH side	21 - E 5
C2135	dash panel, LH side - stripped chassis	22 - D 2
C2141	under dash panel, LH side	21 - C 1
C2141	under dash panel, LH side - stripped chassis	22 - A 2
C2157	dash panel, center	21 - D 6
C2157	dash panel, center - stripped chassis	22 - B 6
C2176	dash panel, LH side	21 - D 1
C2186	dash panel, LH side	21 - D 5
C2188a	dash panel, center	21 - D 6
C2188b	dash panel, center	21 - C 6
C2256	under dash panel, LH side	21 - B 1
C3006	under passenger seat	25 - E 3
C3007	kick panel, RH side	23 - E 5

Connectors

Cell 151

	Location	Page/coordinates
C3047	kick panel, RH side	23 - C 7
C3049	kick panel, RH side	23 - D 8
C3050	vehicle floor, center	25 - C 8
C3051	dash panel, LH side, lower	21 - E 2
C3052	dash panel, LH side, lower	21 - E 2
C3053	vehicle floor, center	25 - A 2
C3063	center console, rear	20 - E 2
C3064	center console, rear	20 - E 2
C3076	center console, below video cassette player	20 - A 4
C3077a	center console, rear	20 - D 2
C3077b	center console, rear	20 - D 2
C3104	in fuel tank - NGV	31 - D 4
C3122	vehicle underbody, rear	31 - B 7
C3123	in fuel tank - stripped chassis/cutaway	33 - B 4
C3123	in fuel tank	32 - D 5
C3124	in fuel tank - NGV	31 - B 4
C3125	vehicle underbody, rear - NGV	31 - E 7
C3126	vehicle underbody, rear - NGV	31 - E 7
C3127	on fuel tank - cutaway/stripped chassis	34 - A 2
C3127	on fuel tank	32 - D 6
C3129	LH side, A-pillar	21 - E 2
C3130	LH side, B-pillar, bottom	29 - E 4
C3132	vehicle underbody, LH side, center - NGV	31 - D 5
C3133	under driver seat	24 - E 5
C3134	under driver seat	25 - C 8
C3135	under passenger seat	25 - E 3
C3136	LH side, B-pillar, bottom	29 - D 7
C3137	vehicle underbody, rear, LH side - NGV	31 - D 7
C3138	vehicle floor, center	25 - A 2
C3139	LH side, B-pillar - cutaway	29 - B 7
C3141	RH side, A-pillar	23 - F 6
C3149	vehicle underbody, rear, LH side - NGV	31 - B 8
C3166	in fuel tank - NGV	31 - E 6
C3176	vehicle underbody, rear	31 - B 7
C3235	RH side, B-with sliding side door - pillar, center	27 - E 4

C3239	frame, LH side, rear	32 - B 6
C3239	frame, rear, center - cutaway/stripped chassis	34 - B 4
C4032	vehicle rear end, RH side - Van/wagon	36 - E 3
C4035	vehicle rear end, LH side	36 - D 2
C4046	in RH rear door, center	28 - E 4
C4098	vehicle rear end, LH side	37 - E 7
C4099	vehicle rear end, center	37 - E 3
C4106	behind rear seats, LH side	35 - B 3
C4107	behind rear seats, LH side	35 - B 4
C4117	behind rear seats, LH side	35 - B 5
C4118	behind rear seats, LH side	35 - B 6
C4119	vehicle rear end, RH side - Van/wagon	36 - C 6
C4120	in RH rear door, LH side	28 - A 3
C4121	in RH rear door, RH side	28 - F 3

Grounds		Cell 151	
	Location	Page/coordinates	
G100	engine compartment, LH side	2-D8	G121 engine compartment, LH side, near ABS control module (2C219) 3-E7
G100	engine compartment, LH side - diesel	3-D8	G200 dash panel, RH side 21-C8
G102	front of vehicle, LH side	1-B6	G201 below drivers seat 25-D7
G103	front of vehicle, RH side	1-E3	G202 dash panel, LH side 21-B2
G105	engine compartment, LH side, near the Battery Junction Box (BJB) (14A003) - except diesel	2-C8	G204 LH rocker panel 21-E2
G105	engine compartment, LH side, near the Battery Junction Box (BJB) (14A003) - stripped chassis	4-D8	G207 dash panel, LH side, near brake pedal position switch (13480) - stripped chassis 22-A6
G107	engine compartment, RH side, front	2-D1	G208 dash panel, LH side - stripped chassis 22-A3
G107	engine compartment, RH side - diesel	3-C1	G302 rear of vehicle, near fuel pump driver module - stripped chassis, cutaway 34-C4
G108	on engine - diesel	9-D8	G302 rear of vehicle, near fuel pump driver module 32-D6
G110	rear of battery II, on frame rail - diesel	8-F2	G400 vehicle rear end, LH side - Van/wagon 36-E4
G110	front of battery II, on frame rail - with auxiliary battery, except diesel	8-D4	G401 vehicle rear end, LH frame rail - cutaway/ stripped chassis, 138" wheelbase with trailer tow class II 34-B6
G111	engine compartment, below Battery Junction Box (BJB) - diesel	3-E3	G401 vehicle rear end, LH frame rail - 138" wheelbase with trailer tow class II 37-B2
G112	engine compartment, LH side, rear - stripped chassis	4-B7	G402 vehicle rear end, LH frame rail - cutaway and stripped chassis 34-B6
G113	engine compartment, LH side, rear - stripped chassis	4-B7	
G114	engine compartment, RH side, rear - stripped chassis	4-A3	
G115	engine compartment, center, rear - stripped chassis	4-A3	
G116	engine compartment, LH side, rear - stripped chassis	4-C1	
G117	engine compartment, RH side, top of frame rail - diesel	2-D4	
G118	engine compartment, lower RH side, frame rail, forward of crossmember - diesel	7-E5	
G119	right of crankshaft pulley, mounted to engine block - diesel	7-E6	
G120	rear of engine, RH side, below starter motor - except diesel	7-E2	

Splices		Cell 151		
	Location	Page/coordinates		
S100	Wiring harness - Transmission - control selector neutral switch (7C078) near T/O to, C1045		S118	Wiring harness - Engine control sensor (12A581) near T/O to, C219 - diesel
S100	Wiring harness - Transmission - control selector neutral switch (7C078) near T/O to, C143 - 4R100		S119	Wiring harness - Engine control sensor (12A581) in T/O to, C110
S101	Wiring harness - Engine control sensor (12A581) in T/O to, Battery Junction Box (BJB) (14A003)		S121	Wiring harness - Engine control sensor (12A581) near T/O to, C219
S102	Wiring harness - Transmission - control selector neutral switch (7C078) near T/O to, C1045		S121	Wiring harness - Engine control sensor (12A581) in T/O to, C1019 - diesel
S102	Wiring harness - Transmission - control selector neutral switch (7C078) in T/O to, C168 - NGV		S123	Wiring harness - Transmission - control selector neutral switch (7C078) in T/O to, C147 - diesel
S111	Wiring harness - Engine control sensor (12A581) in T/O to, C237		S124	Wiring harness - Engine control sensor (12A581) in T/O to, C122
S111	Wiring harness - Engine control sensor (12A581) in T/O to, C140 - diesel		S124	Wiring harness - Engine control sensor (12A581) near T/O to, C237 - diesel
S113	Wiring harness - Engine control sensor (12A581) in T/O to, C134		S125	Wiring harness - Engine control sensor (12A581) in T/O to C219
S113	Wiring harness - Engine control sensor (12A581) in T/O to, Battery Junction Box (BJB) (14A003) - stripped chassis		S127	Wiring harness - Engine control sensor (12A581) near T/O to, G112
S114	Wiring harness - Engine control sensor (12A581) near T/O to, G107		S128	Wiring harness - Engine control sensor (12A581) in T/O to, C125
S114	Wiring harness - Engine control sensor (12A581) near T/O to, G112 - stripped chassis		S130	Wiring harness - Engine control sensor (12A581) near T/O to, C119
S114	Wiring harness - Engine control sensor (12A581) near T/O to, C1019 - diesel		S130	Wiring harness - Engine control sensor (12A581) in T/O to, C1019 - diesel
S117	Wiring harness - Engine control sensor (12A581) in T/O to, C122		S132	Wiring harness - Engine control sensor (12A581) in T/O to, C237
S118	Wiring harness - Engine control sensor (12A581) near T/O to, C110		S132	Wiring harness - Engine control sensor (12A581) near T/O to, C140 - diesel
			S134	Wiring harness - Engine control sensor (12A581) near T/O to, C175
			S135	Wiring harness - Engine control sensor (12A581) near T/O to, C175
			S135	Wiring harness - Engine control sensor (12A581) in T/O to, 1769 - diesel
			S136	Wiring harness - Engine control sensor (12A581) near T/O to, C175
			S138	Wiring harness - Engine control sensor (12A581) near T/O to, C1033

Splices	Cell 151		
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S138	Wiring harness - Engine control sensor (12A581) near T/O to, C176 - diesel		S156 Wiring harness - Engine control sensor and fuel charge (12B637) near T/O to, C118
S140	Wiring harness - Engine control sensor (12A581) near T/O to, C175		S157 Wiring harness - Engine control sensor and fuel charge (12B637) near T/O to, C187
S141	Wiring harness - Engine control sensor (12A581) near T/O to, C139		S157 Wiring harness - Engine control sensor and fuel charge (12B637) near T/O to, C1204 - 6.8L
S141	Wiring harness - Engine control sensor (12A581) near T/O to, G115 - stripped chassis		S158 Wiring harness - Engine control sensor and fuel charge (12B637) near T/O to, C1045
S142	Wiring harness - Engine control sensor (12A581) near T/O to, C175		S159 Wiring harness - Engine control sensor and fuel charge (12B637) near T/O to, C1045
S142	Wiring harness - Engine control sensor (12A581) near T/O to, C1033 - stripped chassis		S160 Wiring harness - Engine control sensor and fuel charge (12B637) near T/O to, C182
S142	Wiring harness - Engine control sensor (12A581) near T/O to, C1087 - diesel		S160 Wiring harness - Engine control sensor and fuel charge (12B637) near T/O to, C1184 - 6.8L
S143	Wiring harness - Engine control sensor (12A581) near T/O to C1227		S161 Wiring harness - Engine control sensor and fuel charge (12B637) near T/O to, C183
S143	Wiring harness - Engine control sensor (12A581) near T/O to, C1227 - diesel		S161 Wiring harness - Engine control sensor and fuel charge (12B637) near T/O to, C1183 - 6.8L
S144	Wiring harness - Engine control sensor (12A581) near T/O to, C1227		S162 Wiring harness - Engine control sensor and fuel charge (12B637) near T/O to, C1313
S145	Wiring harness - Engine control sensor (12A581) near T/O to, G107 - diesel		S163 Wiring harness - Dash panel to headlamp junction (14290) near T/O to, C177
S147	Wiring harness - Engine control sensor (12A581) in T/O to, C135 - diesel		S164 Wiring harness - Dash panel to headlamp junction (14290) near T/O to, C1030
S147	Wiring harness - Engine control sensor (12A581) near T/O to, C110		S165 Wiring harness - Dash panel to headlamp junction (14290) near T/O to, G103
S149	Wiring harness - Engine control sensor (12A581) near T/O to, C110		S169 Wiring harness - Engine control sensor (12A581) in T/O to, C175
S151	Wiring harness - Engine control sensor and fuel charge (12B637) near T/O to C183		S170 Wiring harness - Engine control sensor (12A581) in T/O to, C134
S152	Wiring harness - Engine control sensor and fuel charge (12B637) near T/O to, C188		S171 Wiring harness - Engine control sensor (12A581) in T/O to, C134
S155	Wiring harness - Engine control sensor and fuel charge (12B637) near T/O to, C117		S172 Wiring harness - Engine control sensor (12A581) in T/O to, C175
			S172 Wiring harness - Engine control sensor (12A581) in T/O to, C237 - diesel

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S174	Wiring harness - Engine control sensor (12A581) near T/O to, C110		S203	Wiring harness - Main (14401) near T/O to C294a
S174	Wiring harness - Engine control sensor (12A581) near T/O to, C219 - diesel		S204	Wiring harness - Main (14401) near T/O to C2188a
S177	Wiring harness - Engine control sensor (12A581) near T/O to, C110		S205	Wiring harness - Main (14401) near T/O to C2188a
S177	Wiring harness - Engine control sensor (12A581) in T/O to, C135		S206	Wiring harness - Main (14401) near T/O to C218b
S179	Wiring harness - Engine control sensor (12A581) in T/O to, C175		S207	Wiring harness - Main (14401) near T/O to C2031
S182	Wiring harness - Engine control sensor (12A581) in T/O to, C237		S208	Wiring harness - Main (14401) near T/O to C2031
S184	Wiring harness - Engine control sensor (12A581) in T/O to, C237		S208	Wiring harness - Main (14401) in T/O to C2157 - stripped chassis
S185	Wiring harness - Engine control sensor (12A581) near T/O to, C219		S209	Wiring harness - Main (14401) in T/O to C2022
S186	Wiring harness - Engine control sensor (12A581) in T/O to, C175		S212	Wiring harness - Main (14401) near T/O to C220b
S190	Wiring harness - Engine control sensor (12A581) in T/O to, C139 NGV		S213	Wiring harness - Main (14401) near T/O to C220b
S194	Wiring harness - Engine control sensor (12A581) in T/O to, C110		S214	Wiring harness - Main (14401) near T/O to G203
S195	Wiring harness - Engine control sensor (12A581) in T/O to, C110		S215	Wiring harness - Main (14401) near T/O to G203
S196	Wiring harness - Engine control sensor (12A581) near T/O to, C175		S215	Wiring harness - Main (14401) near T/O to C202a - stripped chassis
S197	Wiring harness - Engine control sensor (12A581) near T/O to, C1033		S216	Wiring harness - Window regulator relay switch (14A200) near T/O to, C2040
S198	Wiring harness - Transmission - control selector neutral switch (7C078) near T/O to, C152		S217	Wiring harness - Main (14401) in T/O to C219
S199	Wiring harness - Engine control sensor (12A581) near T/O to, C175		S217	Wiring harness - Main (14401) in T/O to C220a - stripped chassis
S202	Wiring harness - Main (14401) near T/O to C294a		S218	Wiring harness - Main (14401) in T/O to C219
			S219	Wiring harness - Main (14401) near T/O to C278
			S220	Wiring harness - Main (14401) near T/O to, C2135 - stripped chassis
			S221	Wiring harness - Main (14401) near T/O to, C2015 - stripped chassis

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S222	Wiring harness - Main (14401) near T/O to C2209		S240 Wiring harness - Window regulator relay switch (14A200) near T/O to, C289
S223	Wiring harness - Window regulator relay switch (14A200) near T/O to, C250		S241 Wiring harness - Window regulator relay switch (14A200) near T/O to, C289
S224	Wiring harness - Window regulator relay switch (14A200) near T/O to, C237		S242 Wiring harness - Window regulator relay switch (14A200) near T/O to, C289
S226	Wiring harness - Window regulator relay switch (14A200) near T/O to, C237		S243 Wiring harness - Window regulator relay switch (14A200) near T/O to, C311
S227	Wiring harness - Window regulator relay switch (14A200) near T/O to, C250		S244 Wiring harness - Window regulator relay switch (14A200) near T/O to, C311
S228	Wiring harness - Window regulator relay switch (14A200) near T/O to, C237		S245 Wiring harness - Window regulator relay switch (14A200) near T/O to, C237
S228	Wiring harness - Main (14401) near T/O to, C251 - stripped chassis		S246 Wiring harness - Window regulator relay switch (14A200) near T/O to, C251 - diesel
S229	Wiring harness - Window regulator relay switch (14A200) near T/O to, C250		S248 Wiring harness - Window regulator relay switch (14A200) near T/O to, C248
S230	Wiring harness - Window regulator relay switch (14A200) near T/O to, C250		S250 Wiring harness - Window regulator relay switch (14A200) in T/O to, C251
S231	Wiring harness - Window regulator relay switch (14A200) near T/O to, C248		S251 Wiring harness - Window regulator relay switch (14A200) near T/O to, C204
S233	Wiring harness - Window regulator relay switch (14A200) near T/O to, C3052		S252 Wiring harness - Window regulator relay switch (14A200) near T/O to, C204
S234	Wiring harness - Window regulator relay switch (14A200) near T/O to, C311		S253 Wiring harness - Window regulator relay switch (14A200) near T/O to, C3007
S235	Wiring harness - Window regulator relay switch (14A200) near T/O to, C311		S256 Wiring harness - Window regulator relay switch (14A200) near T/O to, C203a
S235	Wiring harness - Window regulator relay switch (14A200) near T/O to, C201		S261 Wiring harness - Window regulator relay switch (14A200) near T/O to, C289
S236	Wiring harness - Window regulator relay switch (14A200) near T/O to, C2040		S262 Wiring harness - Window regulator relay switch (14A200) near T/O to, C237
S237	Wiring harness - Window regulator relay switch (14A200) near T/O to, C248		S263 Wiring harness - Window regulator relay switch (14A200) near T/O to, C237
S238	Wiring harness - Window regulator relay switch (14A200) near T/O to, C248		S265 Wiring harness - Window regulator relay switch (14A200) near T/O to, C282
S239	Wiring harness - Window regulator relay switch (14A200) near T/O to, C204		S266 Wiring harness - Window regulator relay switch (14A200) near T/O to, Central Junction Box (CJB) (14A068)
			S268 Wiring harness - Main (14401) in T/O to C219

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S269	Wiring harness - Window regulator relay switch (14A200) near T/O to, C250		S296	Wiring harness - Window regulator relay switch (14A200) near T/O to, G204
S269	Wiring harness - Main (14401) near T/O to, C251 - stripped chassis		S297	Wiring harness - Window regulator relay switch (14A200) near T/O to, C311
S271	Wiring harness - Window regulator relay switch (14A200) near T/O to, C250		S300	Wiring harness - Tail lamps (14405) near T/O to, C311
S272	Wiring harness - Main (14401) near T/O to, C2209		S301	Wiring harness - Tail lamps (14405) near T/O to, C311
S274	Wiring harness - Main (14401) near T/O to, C2188a		S302	Wiring harness - Tail lamps (14405) near T/O to, C311
S276	Wiring harness - Main (14401) in T/O to, C205		S303	Wiring harness - Tail lamps (14405) near T/O to, C925
S279	Wiring harness - Main (14401) near T/O to, C202a		S304	Wiring harness - Tail lamps (14405) near T/O to, C925
S280	Wiring harness - Main (14401) in T/O to, C250		S305	Wiring harness - Tail lamps (14405) near T/O to, C925
S281	Wiring harness - Main (14401) near T/O to, C2135		S306	Wiring harness - Tail lamps (14405) near T/O to, C475
S282	Wiring harness - Main (14401) near T/O to, C219		S307	Wiring harness - Fuel tank sender (14406) near T/O to, C3127
S283	Wiring harness - Main (14401) in T/O to, C278		S307	Wiring harness - Fuel tank sender (14406) near T/O to, C3123
S284	Wiring harness - Main (14401) near T/O to, C278		S312	Wiring harness - Fuel tank sender (14406) in T/O to, C3239
S285	Wiring harness - Main (14401) in T/O to, G207		S314	Wiring harness - Interior lamp (14335) near T/O to, C907
S286	Wiring harness - Main (14401) near T/O to, C278		S316	Wiring harness - Fuel tank sender (14406) near T/O to, C3124
S288	Wiring harness - Window regulator relay switch (14A200) near T/O to, C311		S317	Wiring harness - Fuel tank sender (14406) near T/O to, C3104
S291	Wiring harness - Window regulator relay switch (14A200) near T/O to, C289		S318	Wiring harness - Fuel tank sender (14406) near T/O to, C3104
S291	Wiring harness - Window regulator relay switch (14A200) near T/O to, C2040 - diesel		S319	Wiring harness - Fuel tank sender extension (14A655) in T/O to, C3126
			S320	Wiring harness - Fuel tank sender extension (14A655) in T/O to, C3126
			S321	Wiring harness - Fuel tank sender extension (14A655) near T/O to, C3149
			S322	Wiring harness - Fuel tank sender extension (14A655) near T/O to, C3149

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S323	Wiring harness - Center console near T/O to, C3076	S502	Wiring harness - Window regulator, left front door (14631) in T/O to, C525
S324	Wiring harness - Fuel tank sender (14406) near T/O to, C1279	S503	Wiring harness - Window regulator, left front door (14631) near T/O to, C524
S327	Wiring harness - Tail lamps (14405) in T/O to, C925	S504	Wiring harness - Window regulator, left front door (14631) near T/O to, C521
S381	Wiring harness - Tail lamps (14405) in T/O to, C299	S600	Wiring harness - Window regulator, right front door (14630) near T/O to, C608
S400	Wiring harness - A/C blower motor (19949) near T/O to, C4117	S911	Wiring harness - Interior lamp (14334) near T/O to, C981
S401	Wiring harness - A/C blower motor (19949) in T/O to, C405	S912	Wiring harness - Interior lamp (14334) near T/O to, C981
S402	Wiring harness - Tail lamps (14405) near T/O to, C411	S913	Wiring harness - Interior lamp (14334) near T/O to, C981
S403	Wiring harness - Tail lamps (14405) near T/O to, C475	S914	Wiring harness - Interior lamp (14334) near T/O to, C925
S406	Wiring harness - Tail lamps (14405) near T/O to, C4032	S915	Wiring harness - Interior lamp (14334) near T/O to, C925
S407	Wiring harness - Rear license lamp (13412) near T/O to, C4121	S916	Wiring harness - Interior lamp (14334) in T/O to, C1052
S408	Wiring harness - Rear license lamp (13412) in T/O to, C4120	S920	Wiring harness - Interior lamp (14334) in T/O to, C977
S413	Wiring harness - Trailer lamp feed (13A576) in T/O to, C4098	S921	Wiring harness - Interior lamp (14334) in T/O to, C977
S430	Wiring harness - Rear lamp connector (13A409) near T/O to, C421	S930	Wiring harness - Interior illumination (14335) near T/O to, C930
S431	Wiring harness - Rear lamp connector (13A409) near T/O to, C421	S941	Wiring harness - Interior lamp (14334) in T/O to, C976
S432	Wiring harness - Rear lamp connector (13A409) near T/O to, C421	S942	Wiring harness - Interior lamp (14334) in T/O to, C983
S432	Wiring harness - Rear lamp connector (13A409) near T/O to, C414	S1005	Wiring harness - Engine control sensor (12A581) near T/O to, C146
S500	Wiring harness - Window regulator, left front door (14631) near T/O to, C508	S1005	Wiring harness - Engine control sensor (12A581) near T/O to, C219 - diesel
S501	Wiring harness - Window regulator left front door (14631) near T/O to, C508	S1008	Wiring harness - Starter relay to fuse junction panel (14439) in T/O to, C1017a
		S1019	Wiring harness - Engine control sensor (12A581) in T/O to, C119
		S1022	Wiring harness - Engine control sensor (12A581) near T/O to, G107 - diesel

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S1022	Wiring harness - Engine control sensor (12A581) near T/O to, C1078 - stripped chassis		S1033 Wiring harness - Engine control sensor (12A581) near T/O to, G105
S1024	Wiring harness - Engine control sensor (12A581) near T/O to, C1227		S1033 Wiring harness - Engine control sensor (12A581) in T/O to, C1001 - diesel
S1024	Wiring harness - Engine control sensor (12A581) near T/O to, C1019 - diesel		S1034 Wiring harness - Engine control sensor (12A581) near T/O to, G105
S1025	Wiring harness - Engine control sensor (12A581) near T/O to, C1227		S1034 Wiring harness - Engine control sensor (12A581) in T/O to, C1001 - diesel
S1025	Wiring harness - Engine control sensor (12A581) near T/O to, C1019 - diesel		S1035 Wiring harness - Engine control sensor (12A581) near T/O to, C1001
S1027	Wiring harness - Engine control sensor (12A581) near T/O to, G105		S1049 Wiring harness - Engine control sensor (12A581) in T/O to, C176 - diesel
S1027	Wiring harness - Engine control sensor (12A581) in T/O to, C1001 - diesel		S1050 Wiring harness - Engine control sensor and fuel charge (12B637) in T/O to, C106
S1028	Wiring harness - Engine control sensor (12A581) near T/O to, G105		S1051 Wiring harness - Engine control sensor and fuel charge (12B637) near T/O to, C100
S1028	Wiring harness - Engine control sensor (12A581) near T/O to, C119 - diesel		S1052 Wiring harness - Engine control sensor and fuel charge (12B637) near T/O to, C100
S1029	Wiring harness - Engine control sensor (12A581) near T/O to, G105		S1053 Wiring harness - Engine control sensor and fuel charge (12B637) near T/O to, C100
S1029	Wiring harness - Engine control sensor (12A581) near T/O to, C119 - diesel		S1054 Wiring harness - Engine control sensor and fuel charge (12B637) near T/O to, C1101
S1030	Wiring harness - Engine control sensor (12A581) near T/O to, G105		S1055 Wiring harness - Engine control sensor and fuel charge (12B637) near T/O to, C1101
S1030	Wiring harness - Engine control sensor (12A581) in T/O to, C1001 - diesel		S1056 Wiring harness - Engine control sensor and fuel charge (12B637) near T/O to, C1101
S1031	Wiring harness - Engine control sensor (12A581) near T/O to, G105		S1057 Wiring harness - Engine control sensor and fuel charge (12B637) near T/O to, C1389
S1031	Wiring harness - Engine control sensor (12A581) near T/O to, C119 - diesel		S1058 Wiring harness - Engine control sensor and fuel charge (12B637) near T/O to, C1271
S1032	Wiring harness - Engine control sensor (12A581) near T/O to, G105		S1059 Wiring harness - Engine control sensor and fuel charge (12B637) near T/O to, C176c
S1032	Wiring harness - Engine control sensor (12A581) in T/O to, C1001 - diesel		S1060 Wiring harness - Engine control sensor and fuel charge (12B637) near T/O to, C1388c
			S1061 Wiring harness - Engine control sensor and fuel charge (12B637) near T/O to, C1388c
			S1062 Wiring harness - Engine control sensor and fuel charge (12B637) near T/O to, G108
			S1063 Wiring harness - Engine control sensor and fuel charge (12B637) near T/O to, C1388c

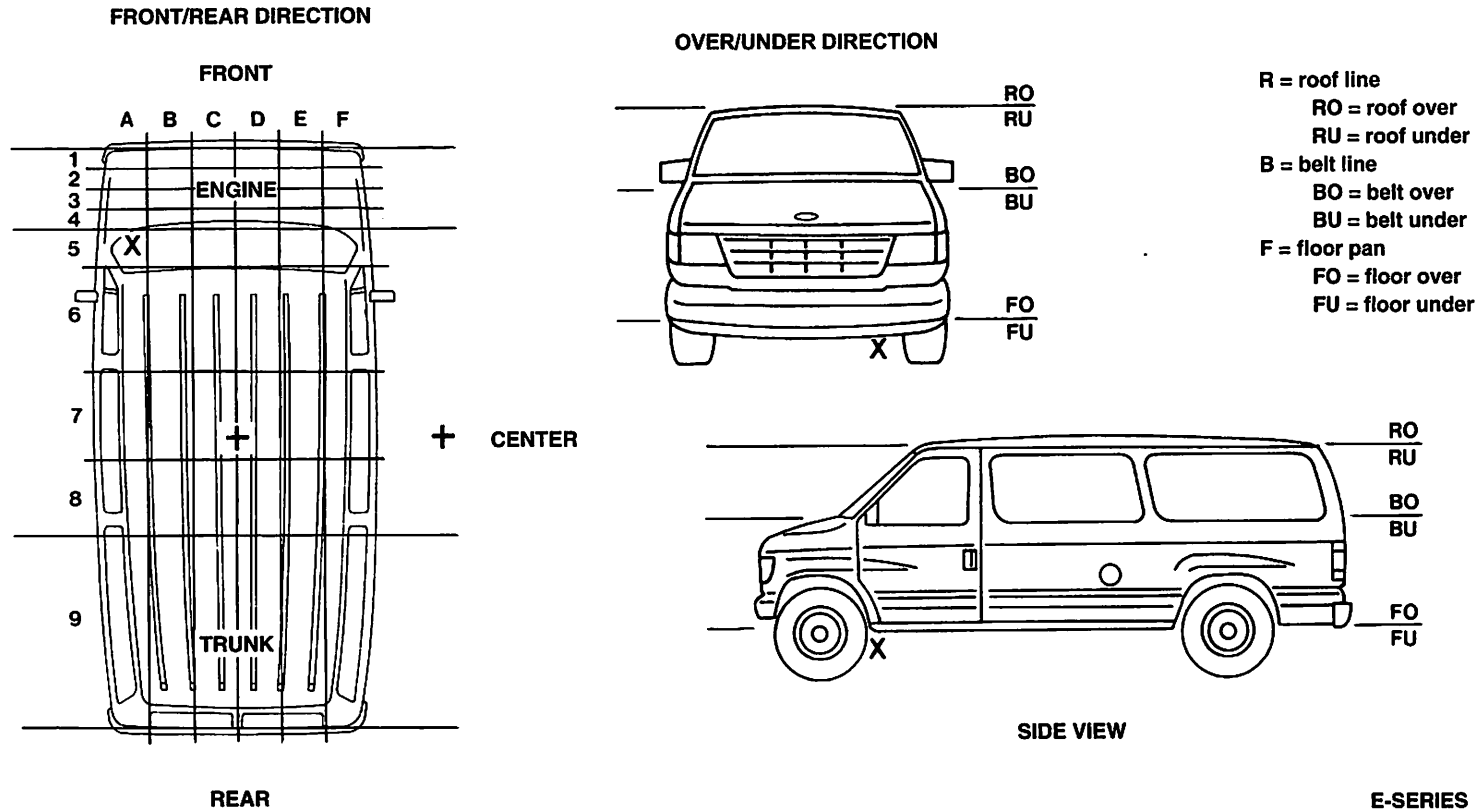
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S1064	Wiring harness - Engine control sensor and fuel charge (12B637) near T/O to, C176c		S2009 Wiring harness - Window regulator relay switch (14A200) in T/O to, C299
S1065	Wiring harness - Engine control sensor (12A581) near T/O to, C175		S2010 Wiring harness - Engine control sensor (12A581) in T/O to, C219
S1065	Wiring harness - Engine control sensor (12A581) near T/O to, C1760 - diesel		S2010 Wiring harness - Engine control sensor (12A581) near T/O to, C140 - diesel
S1066	Wiring harness - Fuel pump feed jumper near T/O to, C1386		S2012 Wiring harness - Engine control sensor (12A581) in T/O to, G105
S1067	Wiring harness - Engine control sensor (12A581) near T/O to, C1009		S2012 Wiring harness - Engine control sensor (12A581) near T/O to, C237 - diesel
S1068	Wiring harness - Engine control sensor (12A581) near T/O to, C127 - diesel		S2013 Wiring harness - Engine control sensor (12A581) near T/O to, C140
S1069	Wiring harness - Engine control sensor (12A581) in T/O to, C175		S2020 Wiring harness - Main (14401) near T/O to C219
S1071	Wiring harness - Alternator rectifier system (14305) in T/O to, C197a		
S1072	Wiring harness - Alternator rectifier system (14305) in T/O to, C197a		
S1073	Wiring harness - Alternator rectifier system (14305) in T/O to, C1052 - diesel		
S1074	Wiring harness - Starter relay/battery in T/O to, C1035a - diesel		
S1075	Wiring harness - Alternator rectifier system (14305) in T/O to, C1052 - diesel		
S1076	Wiring harness - Alternator rectifier system (14305) in T/O to, C1052 - diesel		
S2003	Wiring harness - Window regulator relay switch (14A200) near T/O to, C282		
S2004	Wiring harness - Window regulator relay switch (14A200) near T/O to, C289		
S2005	Wiring harness - Window regulator relay switch (14A200) in T/O to, C3138		
S2007	Wiring harness - Window regulator relay switch near T/O to, C3138		
S2008	Wiring harness - Window regulator relay switch near T/O to, C3138		

Vehicle Repair Location Codes

TO PINPOINT THE ACTUAL VEHICLE LOCATION OF A REPAIR, THE VEHICLE REPAIR LOCATION CODE IS REQUIRED.

For example, an "X" has been placed in the quadrant of the vehicle diagrams indicating the location of the repair. See diagrams.

LOCATION CODE, FOR THE EXAMPLE: A5/FU - (UNDER THE FLOOR OF DRIVER'S LEFT FOOT.)



E-SERIES
FCS-12128-04



**TECHNICAL
SUPPORT OPERATIONS**
Ford Customer Service Division

DECEMBER 2003

LITHO IN U.S.A.
AD-440



FCS-12128-04