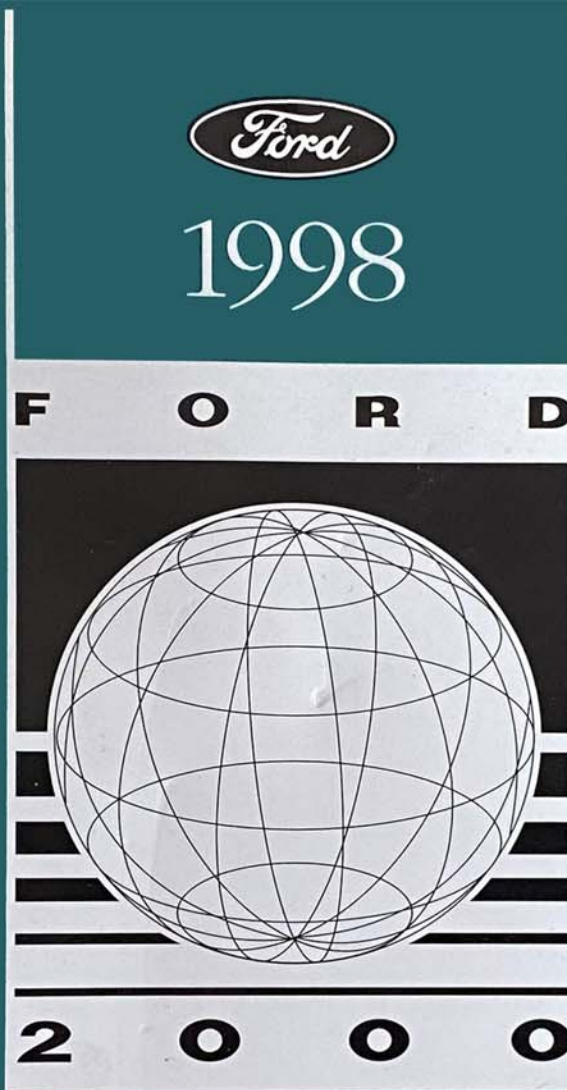




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ELECTRICAL VACUUM AND TROUBLESHOOTING MANUAL (EVTM)

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**1998 Ford F-150 F-250 Truck Electrical and Vacuum
Troubleshooting Manual (EVTM)
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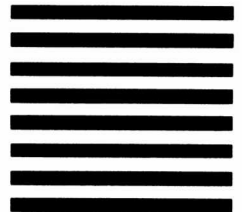
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Ford Customer Service Division has developed a new EVTm format for the 1998 F-150/250. Our goal is to provide accurate and timely electrical and vacuum service information.

1998 EVTm FEATURES

- Schematic pages now contain **Component Location** references to full-view illustrations and **Component Descriptions** that describe the system function of a component.
- "COMPONENT TESTING" procedures (CELL 149) that tell the user how to perform diagnostic tests on various circuits.
- **Connector End Views** are now located at the end of individual cells and are shown for connectors with five or more cavities; for connectors with ten or more cavities, a circuit function chart is provided.
- **NOTES, CAUTIONS and WARNINGS** contain important safety information.
- Full view "COMPONENT LOCATION VIEWS" (CELL 151) to help locate on-vehicle components.
- Circuit voltages have been added to schematic pages to help simplify troubleshooting. Nonessential troubleshooting hints have been deleted.
- **Cellular Pagnation:** A specific section (or cell) in all EVTms is numbered by cell and starts with page 1. For example: "HOW TO USE THIS MANUAL" is CELL 2 and begins with page 2-1.

"IN-LINE CONNECTOR FACES" (CELL 150) has been added for in-line connectors with six or more cavities to aid in identifying electrical wiring.

...ed for all electrical connectors. "C" numbers are listed in the ...).

"BERS" (CELL 153) has been added to aid in identifying warranty

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IMPORTANT SAFETY NOTICE

Appropriate service methods and proper repair procedures are essential for the safe, reliable operation of all motor vehicles, as well as the personal safety of the individual doing the work. This Manual provides general directions for accomplishing service and repair work with tested, effective techniques. Following them will help assure reliability.

There are numerous variations in procedures, techniques, tools, and parts for servicing vehicles, as well as in the skill of the individual doing the work. This Manual cannot possibly anticipate all such variations and provide advice or cautions as to each. Accordingly, anyone who departs from the instructions provided in this Manual must first establish that the methods, tools or parts does not compromise personal safety or the vehicle integrity.

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2-1 HOW TO USE THIS MANUAL

1998 F-150/250

The purpose of this manual is to show electrical and vacuum circuits in a clear and simple fashion to make troubleshooting easier. **NOTES, CAUTIONS** and **WARNINGS** contain important information.

- **NOTES** describe how switches and other components operate to help complete a particular procedure.
- **CAUTIONS** provide information that could prevent making an error that may damage the vehicle.
- **WARNINGS** provide information to prevent personal injury.

The **WARNINGS** list on page 2-2 contains general warnings to follow when servicing a vehicle.

Components that work together are shown together. All electrical components used in a specific system are shown on one diagram. The circuit breaker or fuse is shown at the top of the page. All wires, connectors, components and splices are shown in the flow of current to ground at the bottom of the page. If a component is used in several different systems, it is shown in several places. For example, the Main Light Switch is electrically a part of many systems and is repeated on many pages.

In some cases, a component may seem (by its name) to belong to a system where it has no electrical connection. For example, Radio Illumination is electrically part of Instrument Illumination, but because it has no electrical connection to the Radio system, it is not shown on the Radio diagram.

Schematic pages contain references to full-view illustrations and description notes for various components. The references are reverse-text blocks to each component and connector and location page describe the

Schematic pages contain circuit voltages to help simplify troubleshooting hints. 12V is used to imply battery voltage on a component connector terminal, and 0V is used to show that there should be continuity to ground on that particular terminal. Conditional voltages such as "12V with the ignition switch in RUN" will also be provided. Troubleshooting hints that can't be simplified with circuit voltages will be shown at the end of each cell.

Component connector face information specific to a certain cell is found at the end of that cell. A Connector Face Reference List is provided to locate connector faces that are shown in different cells. Component connectors with five or more terminals are illustrated and are accompanied by a pinout chart that lists the function of all circuitry associated with that component.

"GROUNDS" (Cell 10) contains ground circuitry shown in complete detail. This information is useful for checking interconnections of the ground circuits of different systems.

"POWER DISTRIBUTION" (Cell 13) contains power distribution circuitry shown in complete detail. This section displays how the various fuses are powered and, in turn, how each system is powered.

"COMPONENT TESTING" (Cell 149) contains testing procedures for various switches. This information includes schematics, component terminal locations and step-by-step procedures.

"IN-LINE CONNECTOR FACES" (Cell 150) contains illustrations of all the in-line connectors that have 6 or more terminals. The terminals have pin numbers assigned to them.

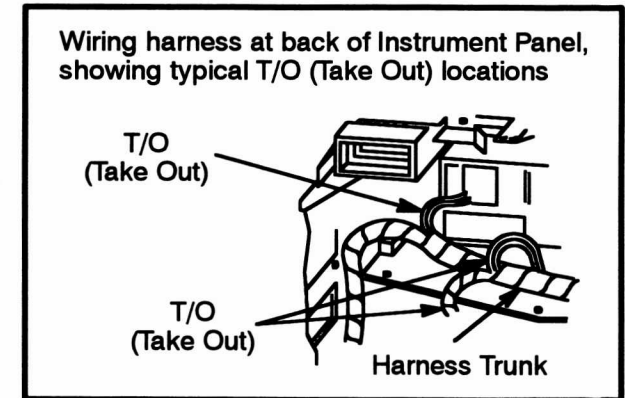
"COMPONENT LOCATION VIEWS" (Cell 151) contains full-view illustrations which show the location of all components and connectors in the vehicle.

The **"LOCATION INDEX"** (Cell 152) provides the base part numbers, locations, connector face references and illustration references for all components, connectors, splices and grounds.

HELPFUL REMINDERS

Before using the EVM for troubleshooting, refer to these HELPFUL REMINDERS:

1. The abbreviation T/O, for take out, used in the Location Index (Cell 152), refers to the point at which a group of wires branch off the harness trunk. Refer to the wiring harness illustration.



2. If a connector serves the same purpose in two separate versions (e.g., Automatic/Manual), but is physically different, *two* connector numbers are used. However, if a connector serves the same purpose in two separate versions (e.g., Automatic/Manual) and is physically the same, but the wire colors are different, *only one* connector number is used. If the same physical connector is used more than once, then more than *one* connector number is used.

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3. Wiring schematics provide a picture of how and under what conditions the circuit is powered, of the current path to circuit components, and of how a circuit is grounded. Each circuit component is named (underlined titles). Wire and connector colors are listed as follows (standard Ford color abbreviations are used):

COLOR ABBREVIATIONS

| | | | |
|----|-------------|----|---------|
| BL | Blue | N | Natural |
| BK | Black | O | Orange |
| BR | Brown | PK | Pink |
| DB | Dark Blue | P | Purple |
| DG | Dark Green | R | Red |
| GN | Green | T | Tan |
| GY | Gray | W | White |
| LB | Light Blue | Y | Yellow |
| LG | Light Green | | |

Note: Whenever a wire is labeled with two colors, the first color listed is the basic color of the wire, and the second color listed is the stripe marking of the wire.

4. When reporting Vehicle Repair Location Codes to Ford Customer Service Division, refer to Cell 160 (beginning on page 160-1). Note: Do not use the illustrations in Cell 151 (beginning on page 151-1) for reporting Vehicle Repair Location Codes.

5. 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.

HOW TO FIND ELECTRICAL CONCERNS

TROUBLESHOOTING STEPS

These six steps present an orderly method of troubleshooting.

Step 1. Verify the concern.

- Operate the complete system to check the accuracy and completeness of the customer's complaint.

Step 2. Narrow the concern.

- Using the EVTMM, narrow down the possible causes and locations of the concern to pinpoint the exact cause.
- Read the description notes at the components and study the wiring schematic. You should then know enough about the circuit operation to determine where to check for the trouble. Further information can be found by referring to the Service Manual pages listed in the box at the top of the page.

Step 3. Test the suspected cause.

- Use electrical test procedures to find the specific cause of the symptoms.
- The component location reference bars and the pictures will help you find components. The Location Index (at the end of the manual) gives component location information for connectors, diodes, resistors, splices and grounds.

Step 4. Verify the cause.

- Confirm that you have found the correct cause by connecting jumper wires and/or temporarily installing a known good component and operating the circuit.

Step 5. Make the repair.

- Repair or replace the inoperative component.

Step 6. Verify the repair.

- Operate the system as in Step 1 and check that your repair has removed all symptoms without creating any new symptoms.

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2-3 HOW TO USE THIS MANUAL

1998 F-150/250

Some engine circuits may need special test equipment and special procedures. See the *Service Manual* and other service books for details. You will find the circuits in this manual to be helpful with those special test procedures.

TROUBLESHOOTING TOOLS

JUMPER WIRE

This is a test lead used to connect two points of a circuit. A Jumper Wire can bypass an open to complete a circuit.

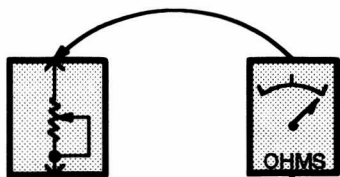
WARNING

Never use a jumper wire across loads (motors, etc.) connected between hot and ground. This direct battery short may cause injury or fire.

VOLTMETER

A DC Voltmeter measures circuit voltage. Connect negative (- or black) lead to ground, and positive (+ or red) lead to voltage measuring point.

OHMMETER



An Ohmmeter shows the resistance between two connected points (Figure 1).

TEST LAMP

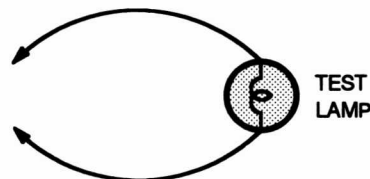


Figure 2 - Test Lamp

A Test Light is a 12-volt bulb with two test leads (Figure 2).

Uses: Voltage Check, Short Check.

SELF-POWERED TEST LAMP

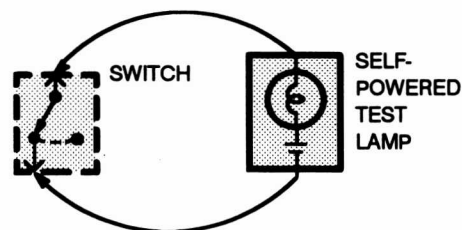


Figure 3 - Continuity Check

The Self-Powered Test Lamp is a bulb, battery and set of test leads wired in series (Figure 3). When connected to two points of a continuous circuit, the bulb glows.

Uses: Continuity Check, Ground Check.

CAUTION

When using a self-powered test lamp or ohmmeter, be sure power is off in circuit during testing. Hot circuits can cause equipment damage and false readings.

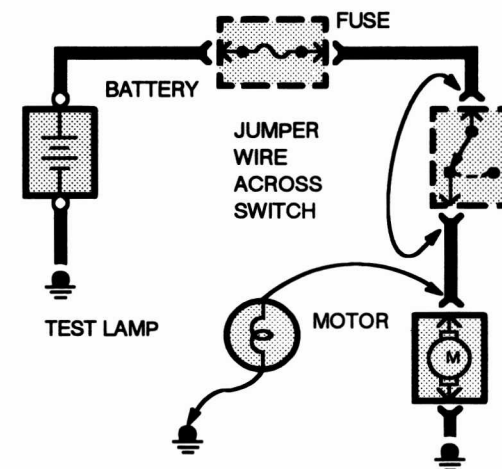


Figure 4 - Switch Circuit Check and Voltage Check

In an inoperative circuit with a switch in series with the load, jumper the terminals of the switch to power the load. If jumpering the terminals powers the circuit, the switch is inoperative (Figure 4).

CONTINUITY CHECK (Locating open circuits)

Connect one lead of Self-Powered Test Lamp or Ohmmeter to each end of circuit (Figure 3). Lamp will glow if circuit is closed. Switches and fuses can be checked in the same way.

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VOLTAGE CHECK

Connect one lead of test lamp to a known good ground or the negative (-) battery terminal. Test for voltage by touching the other lead to the test point. Bulb goes on when the test point has voltage (Figure 4).

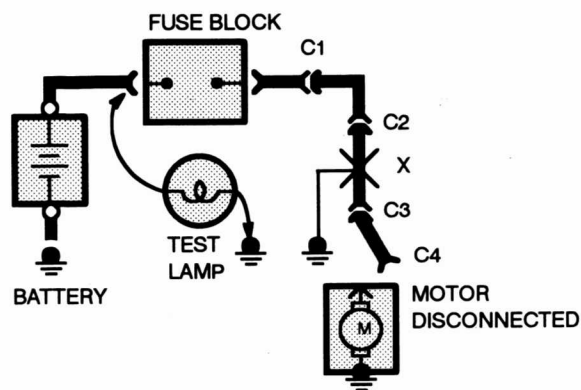


Figure 5 – Short Check

A fuse that repeatedly blows is usually caused by a short to ground. It's important to be able to locate such a short quickly (Figure 5).

1. Turn off everything powered through the fuse.
2. Disconnect other loads powered through the fuse:
 - Motors: disconnect motor connector (Connector C4 in Figure 5).
 - Lights: remove bulbs.

4. Connect one Test Lamp lead to hot end of blown fuse. Connect other lead to ground. Bulb should glow, showing power to fuse. *(This step is just a check to be sure you have power to the circuit.)*
5. Disconnect the test lamp lead that is connected to ground, and reconnect it to the load side of the fuse at the connector of the disconnected component. (In Figure 5, connect the test lamp lead to connector C4.)
 - If the Test Lamp is off, the short is in the disconnected component.
 - If the Test Lamp goes on, the short is in the wiring. You must find the short by disconnecting the circuit connectors, one at a time, until the Test Lamp goes out. For example, in Figure 5 with a ground at X, the bulb goes out when C1 or C2 is disconnected, but not after disconnecting C3. This means the short is between C2 and C3.

Turn on power to the circuit. Perform a Voltage Check between the suspected inoperative ground and the frame. Any indicated voltage means that the ground is inoperative (Figure 6).

Turn off power to the circuit. Connect one lead of a Self-Powered Test Lamp or Ohmmeter to the wire in question and the other lead to a known ground. If the bulb glows, the circuit ground is OK (Figure 6).

The circuit schematics in this manual make it easy to identify common points in circuits. This knowledge can help narrow the concern to a specific area. For example, if several circuits fail at the same time, check for a common power or ground connection (see *Power Distribution or Grounds*). If part of a circuit fails, check the connections between the part that works and the part that doesn't work.

For example, if the lo beam headlamps work, but the high beams and the indicator lamp don't work, then power and ground paths must be good. Since the dimmer switch is the component that switches this power to the high beam lights and indicator, it is most likely the cause of failure.

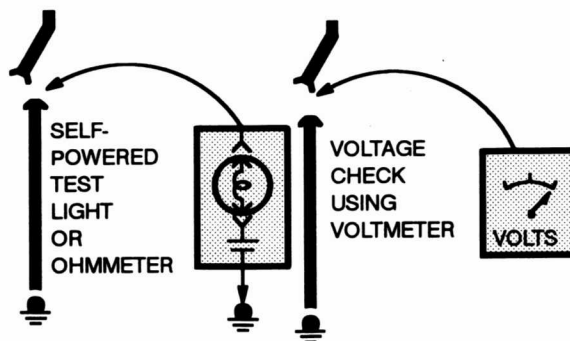


Figure 6 – Ground Check

Turn Ignition Switch to RUN (if necessary) to

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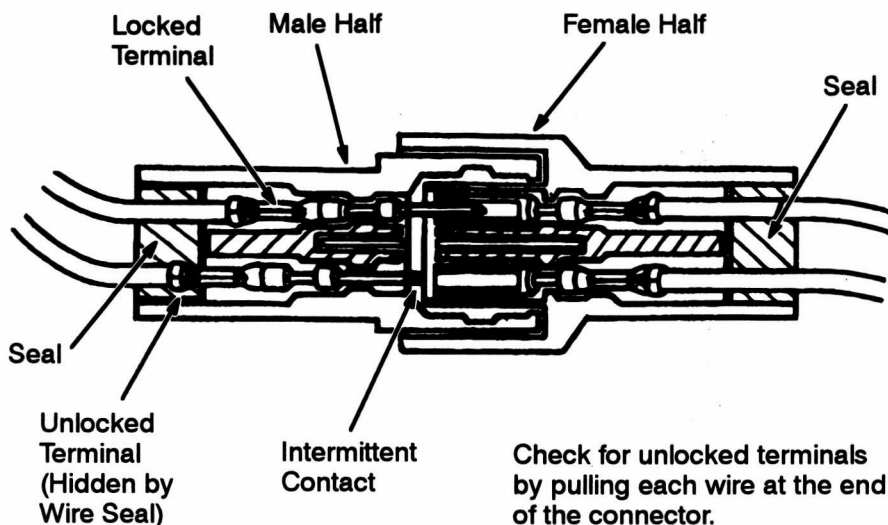
2-5 HOW TO USE THIS MANUAL

1998 F-150/250

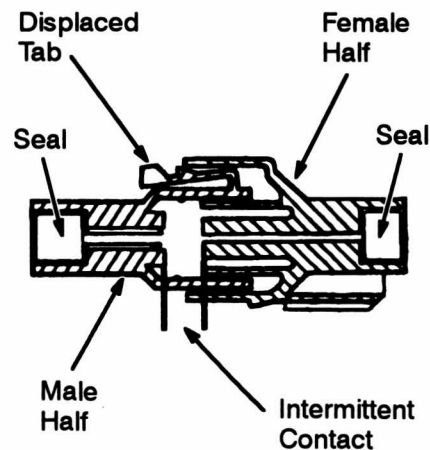
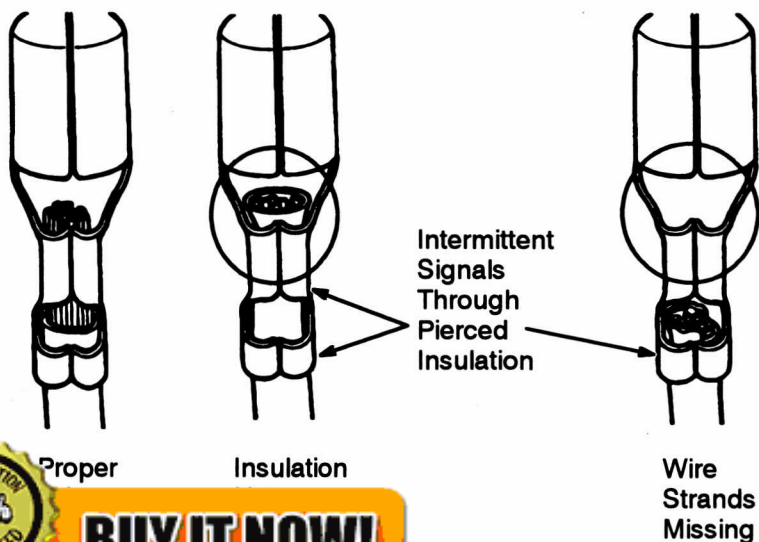
TROUBLESHOOTING WIRING HARNESS AND CONNECTOR HIDDEN CONCERNS

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.

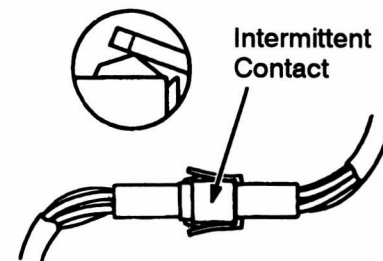


TERMINAL NOT PROPERLY SEATED



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

Type A



Type B

PARTIALLY MATED CONNECTORS

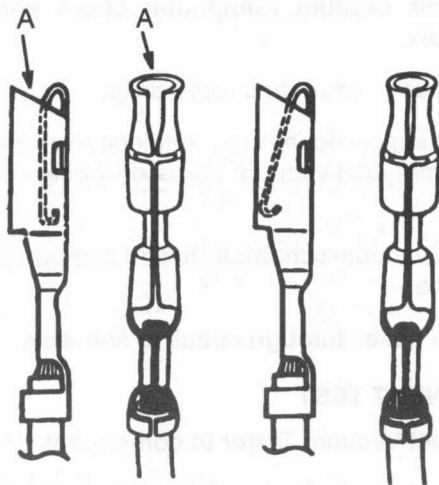
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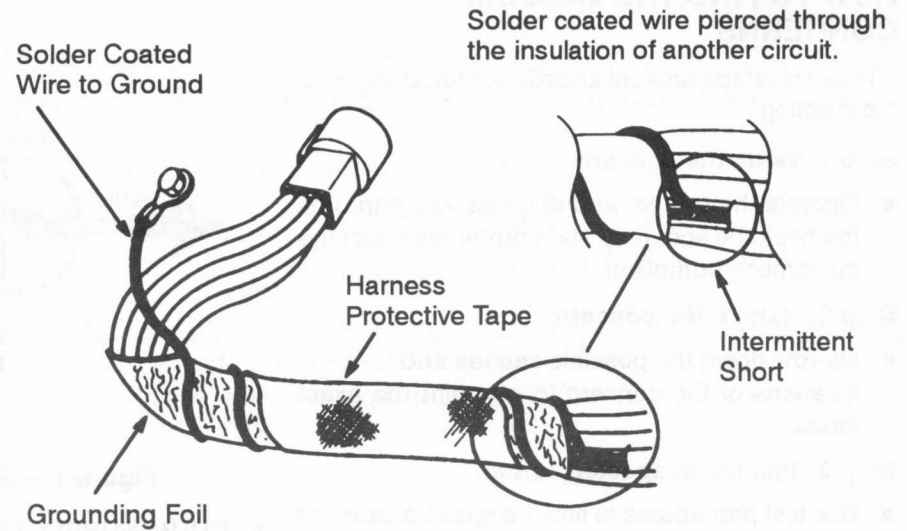
WIRE STRIPPING



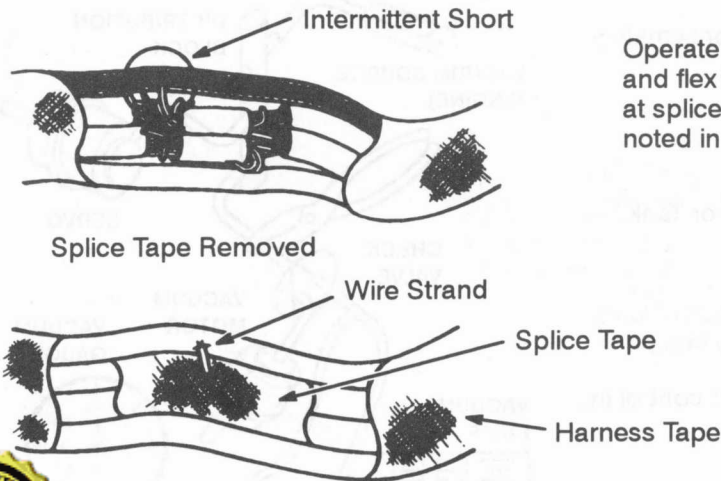
Enlarged Normal

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.

DEFORMED (ENLARGED) FEMALE TERMINALS

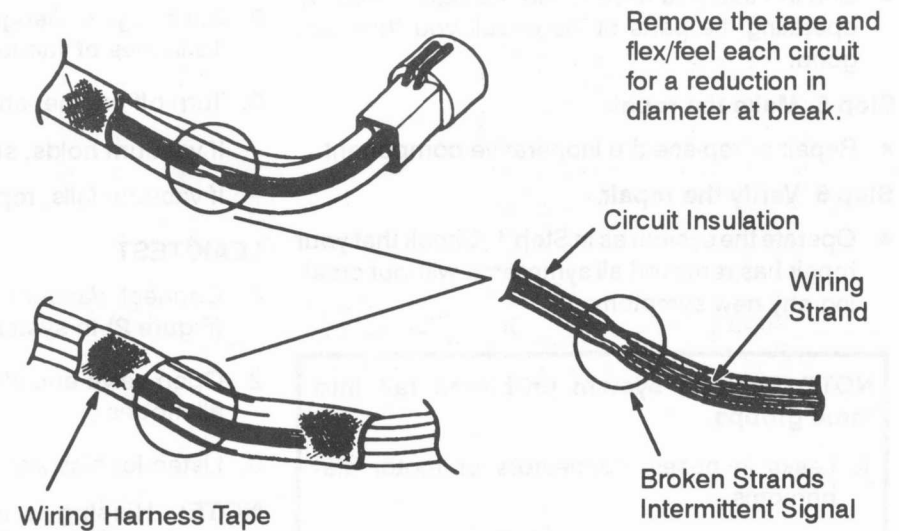


ELECTRICAL SHORT INSIDE THE HARNESS



Operate the system and flex the harness at splice location noted in Section 152.

WITHIN THE HARNESS



BROKEN WIRE STRANDS IN HARNESS

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2-7 HOW TO USE THIS MANUAL

1998 F-150/250

HOW TO FIND THE VACUUM CONCERNS

These six steps present an orderly method of troubleshooting.

Step 1. Verify the concern.

- Operate the system and observe all symptoms to check the accuracy and completeness of the customer's complaint.

Step 2. Narrow the concern.

- Narrow down the possible causes and locations of the concern to pinpoint the exact cause.

Step 3. Test the suspected cause.

- Use test procedures to find the specific cause of the symptoms.

Step 4. Verify the cause.

- Confirm that you have found the right cause by operating the parts of the circuit you think are good.

Step 5. Make the repair.

- Repair or replace the inoperative component.

Step 6. Verify the repair.

- Operate the system as in Step 1. Check that your repair has removed all symptoms without creating any new symptoms.

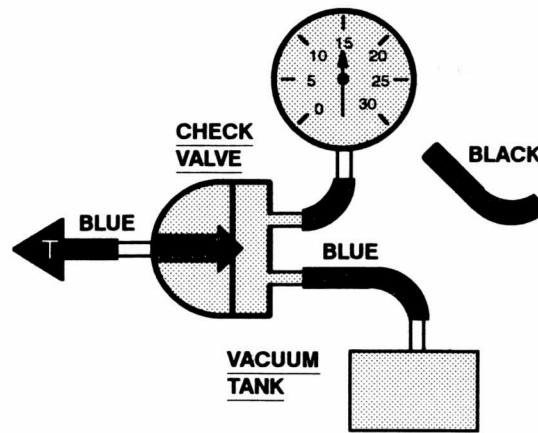


Figure 1 – System Supply Test

VACUUM SUPPLY TEST

1. Connect Vacuum Tester to system side of Check Valve (Figure 1).
2. Start engine. Gauge should show approximately 15 inches of vacuum.
3. Turn off engine, and observe gauge:
 - If vacuum holds, supply OK.
 - If vacuum fails, replace Check Valve or Tank.

LEAK TEST

1. Connect Vacuum Gauge and Vacuum Pump (Figure 2) to system hose in place of tank.
2. Open valve and start pump. Operate control in all modes.
3. Listen for hiss and observe gauge.

NOTE: Hissing is normal at Function Control when changing modes.

If system hisses or loses vacuum, find system leak as follows:

1. Turn on Vacuum Pump and check vacuum build-up.
2. Stop pump; vacuum should drop.
3. Clamp supply hoses with needlenose pliers, one at a time, until vacuum stops dropping (Figure 2).
4. Check vacuum schematic to find components in that line.
5. Clamp hoses through circuit to find leak.

COMPONENT TEST

1. Connect Vacuum Tester to component.
2. Pump Vacuum Tester. Check that all components operate correctly and vacuum holds.
3. Replace component if vacuum does not hold.

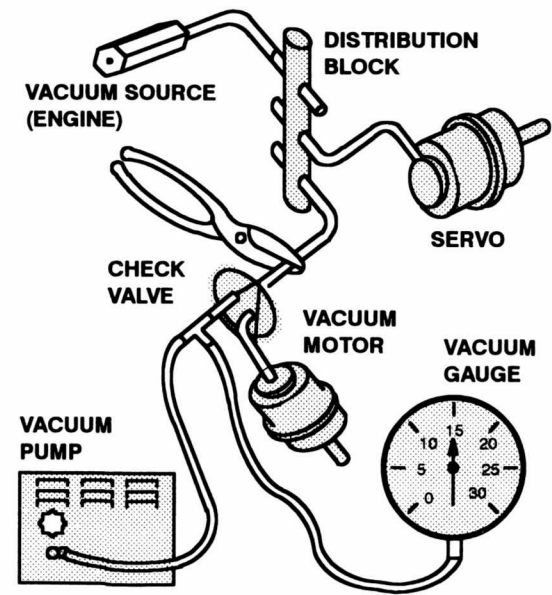


Figure 2 – Testing For Leaks In Typical Vacuum System

NOTE: Vacuum system problems fall into three groups.

in hoses, connectors or motor dia-

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motors.



ELECTRICAL SYMBOLS



DASHED COMPONENT BOX
ONLY PART OF THE COMPONENT IS SHOWN ON THE PAGE; THE COMPONENT IS SHOWN COMPLETE IN ANOTHER LOCATION



COMPONENT WITH CONNECTORS



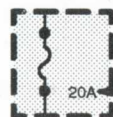
BATTERY



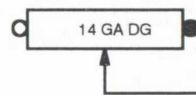
SCREW TERMINAL ON COMPONENT

SOLID STATE

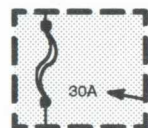
SEALED ELECTRONIC COMPONENT
ANY CIRCUITRY SHOWN INSIDE THE BOX IS A FUNCTIONAL



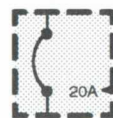
FUSE
CURRENT RATING



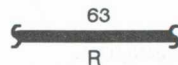
FUSIBLE LINK
WIRE SIZE AND COLOR



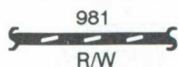
MAXI-FUSE or FUSIBLE LINK CARTRIDGE
CURRENT RATING



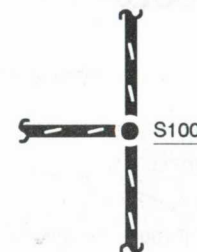
CIRCUIT BREAKER
CURRENT RATING



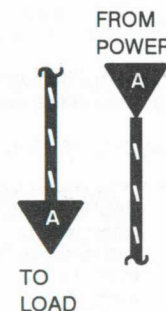
SOLID WIRES



STRIPED WIRES



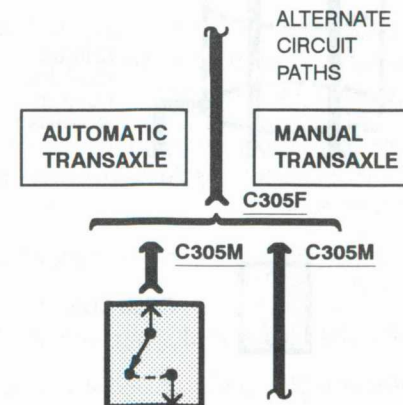
SPLICE OR CRIMP TERMINAL



"CUT" WIRES REFERENCED BETWEEN PAGES
ARROWS SHOW CURRENT FLOW FROM POWER TO GROUND



"REFERENCE" WIRES
COMPLETE WIRING SHOWN ON ANOTHER PAGE



ALTERNATE CIRCUIT PATHS

AUTOMATIC TRANSAXLE

MANUAL TRANSAXLE

C305F

C305M

C305M

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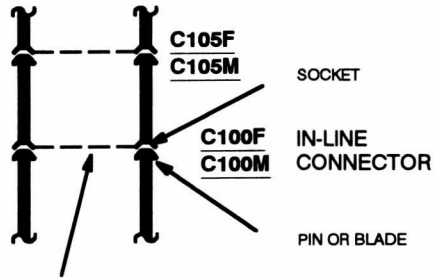
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2-9 HOW TO USE THIS MANUAL

1998 F-150/250

ELECTRICAL SYMBOLS

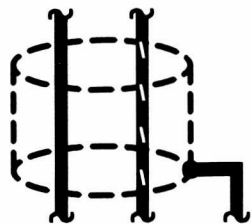


SINGLE DASHED LINE INDICATES THAT WIRE ON LEFT ALSO PASSES THROUGH THE SAME CONNECTOR

SEE GROUNDS
PAGES 10-1,
10-2



DASHED WIRE
CIRCUITRY IS NOT
SHOWN IN COMPLETE
DETAIL, BUT IS
COMPLETE
ON ANOTHER PAGE



SHIELD
WIRES ARE
COVERED
BY A SHIELD



MOTOR



HEATING
ELEMENT



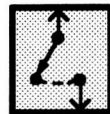
THERMISTOR



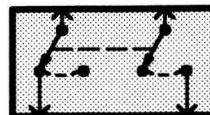
RHEOSTAT
OR
POTENTIOMETER



SOLENOID



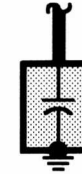
SWITCH



GANGED
SWITCHES
CONTACTS MOVE
AT THE SAME TIME



DIODES
CURRENT FLOWS
IN DIRECTION OF
ARROW ONLY



CAPACITOR



TRANSISTOR



GAUGE



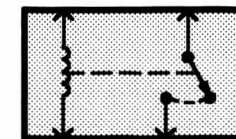
LIGHT
EMITTING
DIODE
(LED)



LIGHT
BULB



DUAL FILAMENT
LIGHT BULB



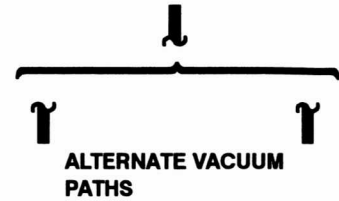
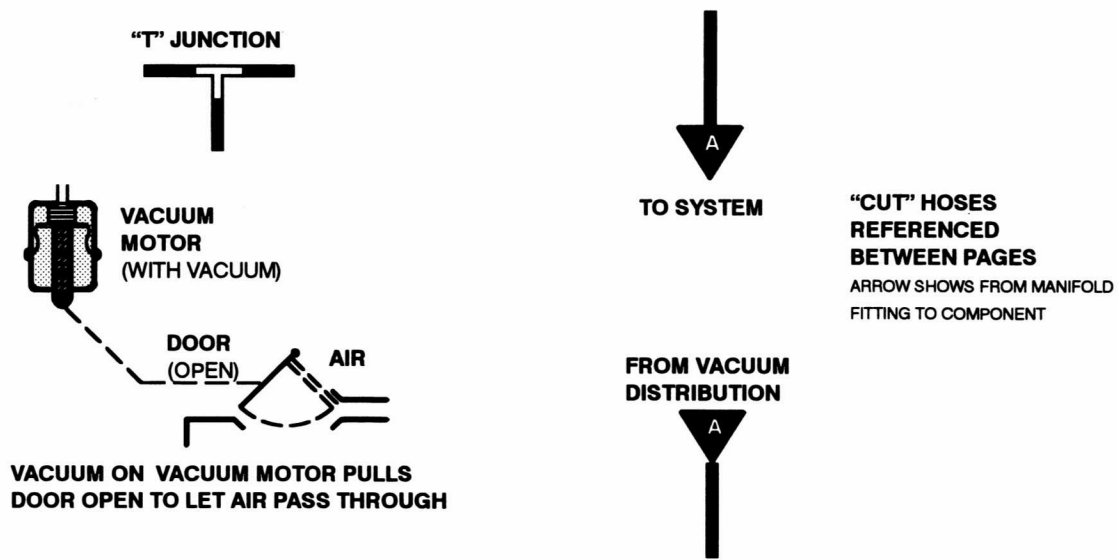
RELAY
CONTACTS
CHANGE POSITION
WITH CURRENT
THROUGH COIL

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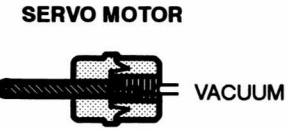
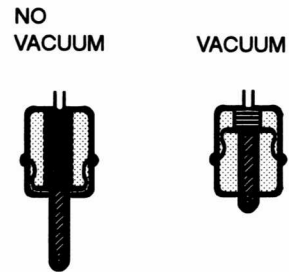
VACUUM SYMBOLS



Note: Other vacuum symbols used on vacuum system diagrams are fully explained on the pages where they appear.

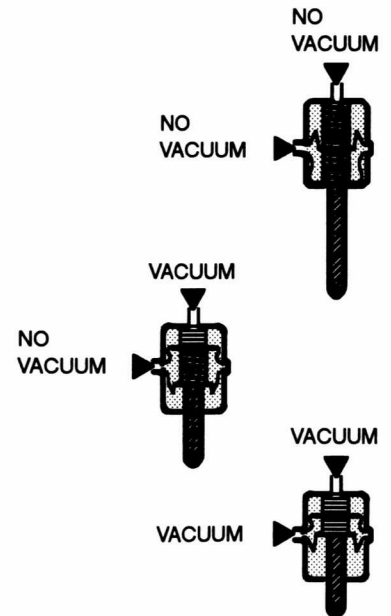
VACUUM MOTOR OPERATION

SINGLE DIAPHRAGM MOTOR



Some vacuum motors can position the actuating arm at any position between fully extended and fully retracted. The Servo is operated by a control valve that applies varying amounts of vacuum to the motor. The higher the vacuum level, the greater the retraction of the motor arm. Servo Motors work nearly the same way as two-position motors, except for the way the vacuum is applied. Servo Motors are generally larger and provide a calibrated control.

DOUBLE DIAPHRAGM MOTOR



A double diaphragm motor has three positions (it is actually two motors in one housing). When the top port gets vacuum, the shaft pulls halfway in. When both ports get vacuum, the shaft pulls all the way in.

vacuum motors operate like electrical solenoids, shaft between is not applied, by a spring.

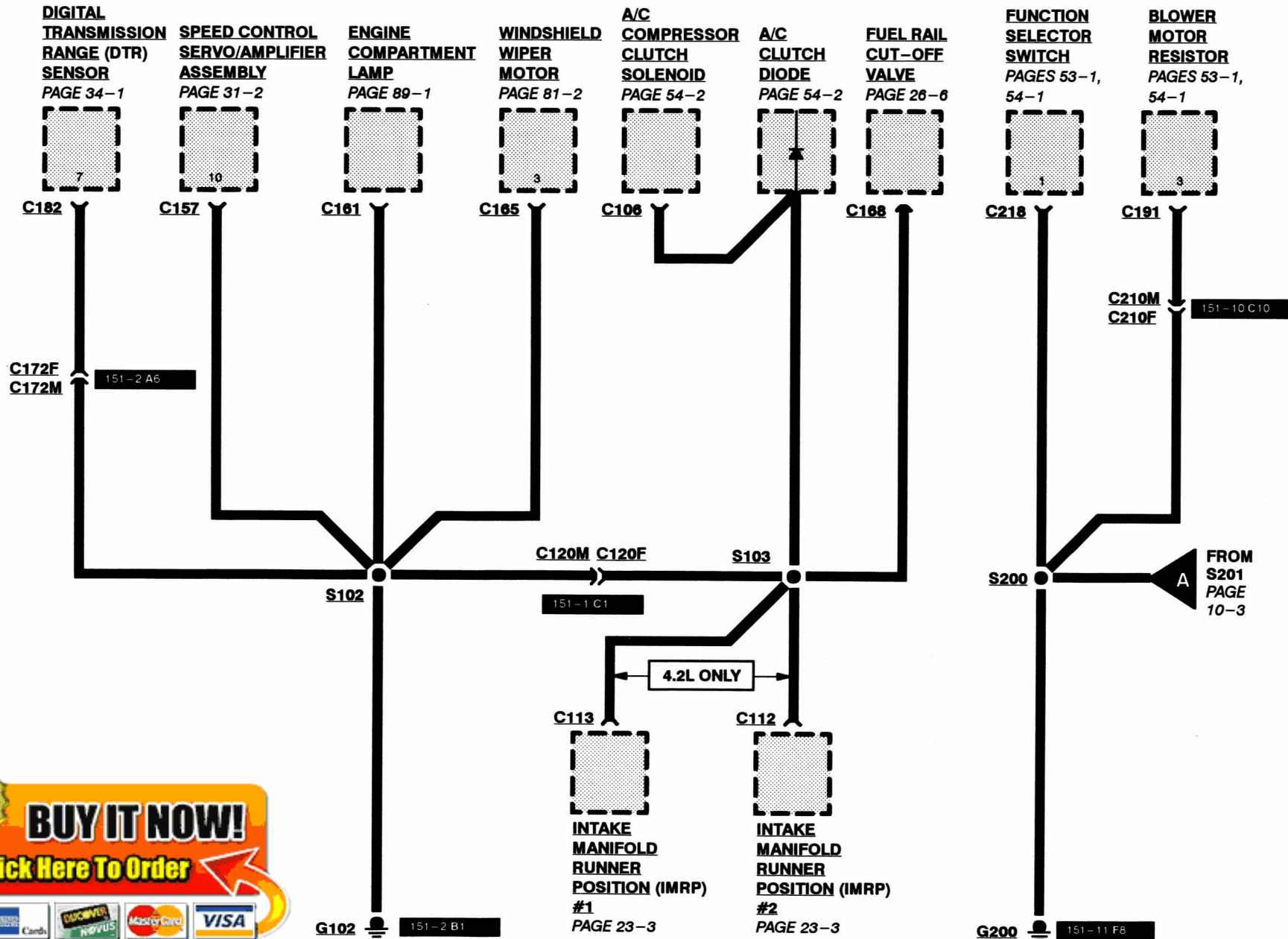
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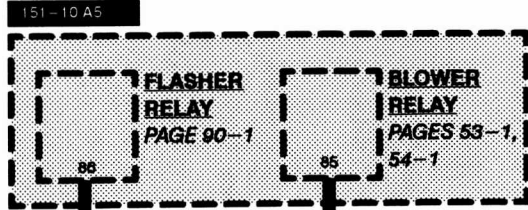
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10-3 GROUNDS

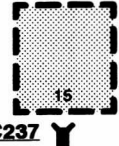
1998 F-150/250

All Circuit are 57 BK unless otherwise noted.

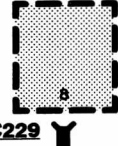
BLOWER/FLASHER RELAY BLOCK



INSTRUMENT CLUSTER



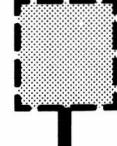
BLEND DOOR ACTUATOR



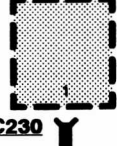
DATA LINK CONNECTOR (DLC)



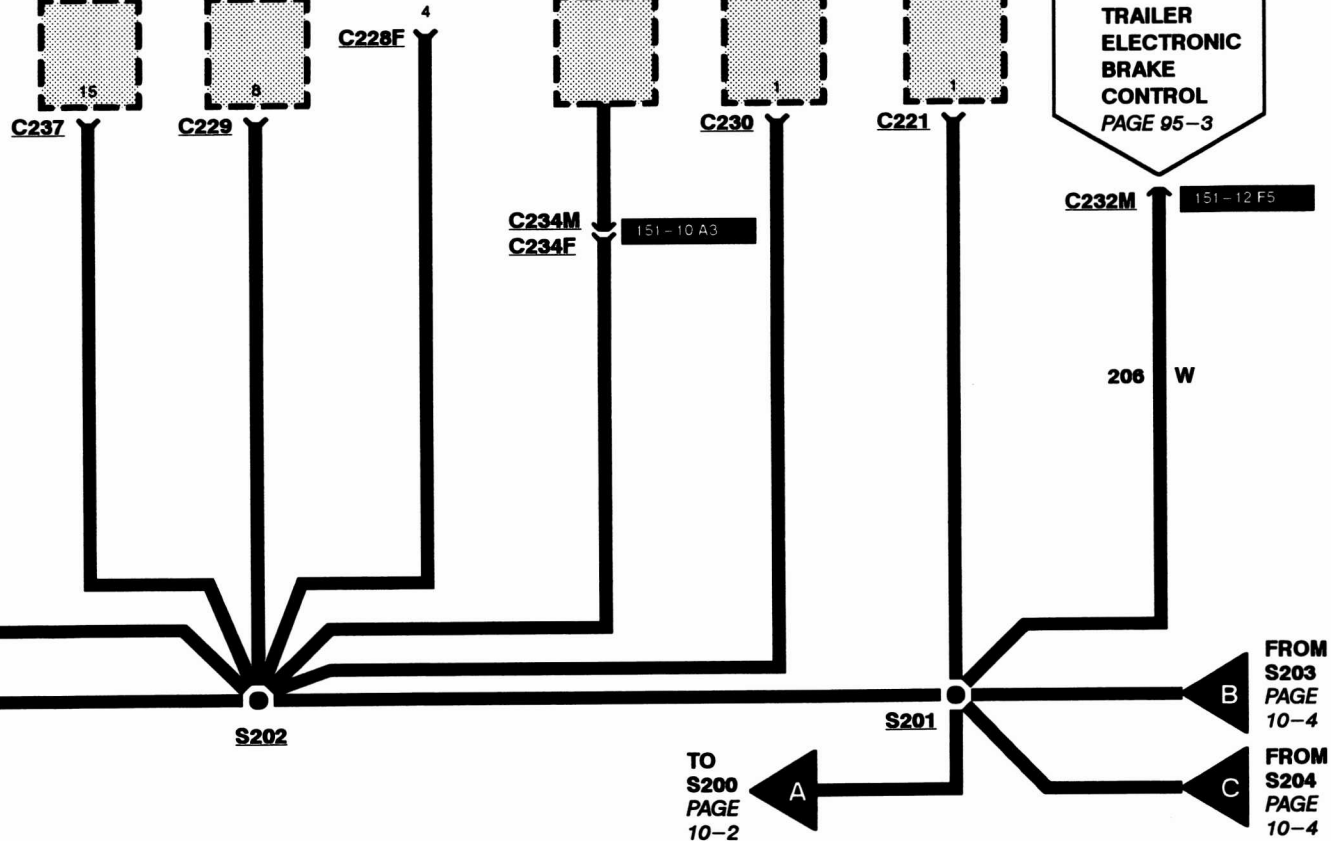
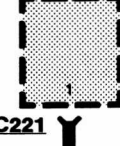
CLOCKSPRING ASSEMBLY (SPEED CONTROL)



4 WHEEL DRIVE MODE SWITCH



TRANSFER CASE SHIFT RELAY MODULE



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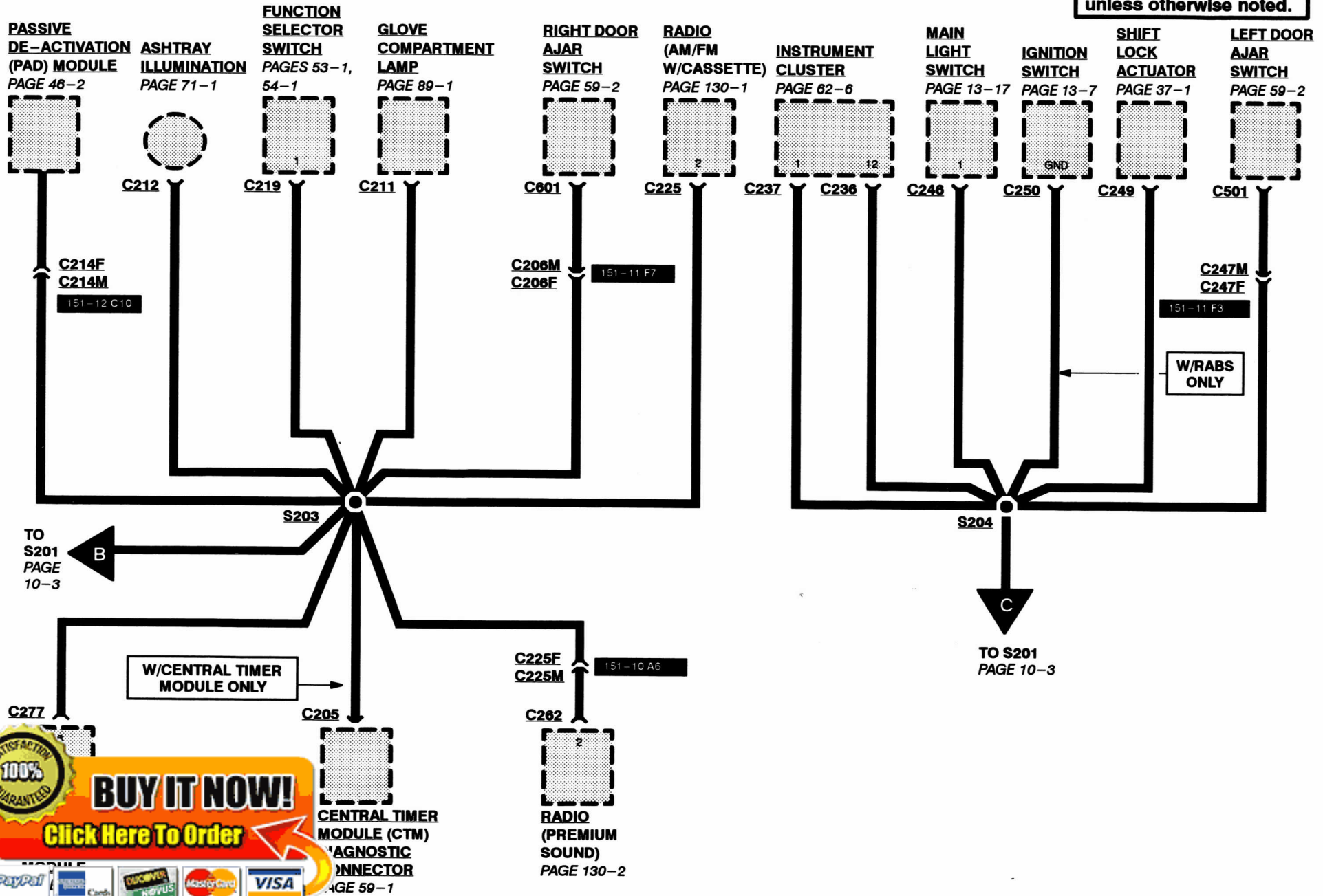
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GROUNDS 10-4

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ROUNDS

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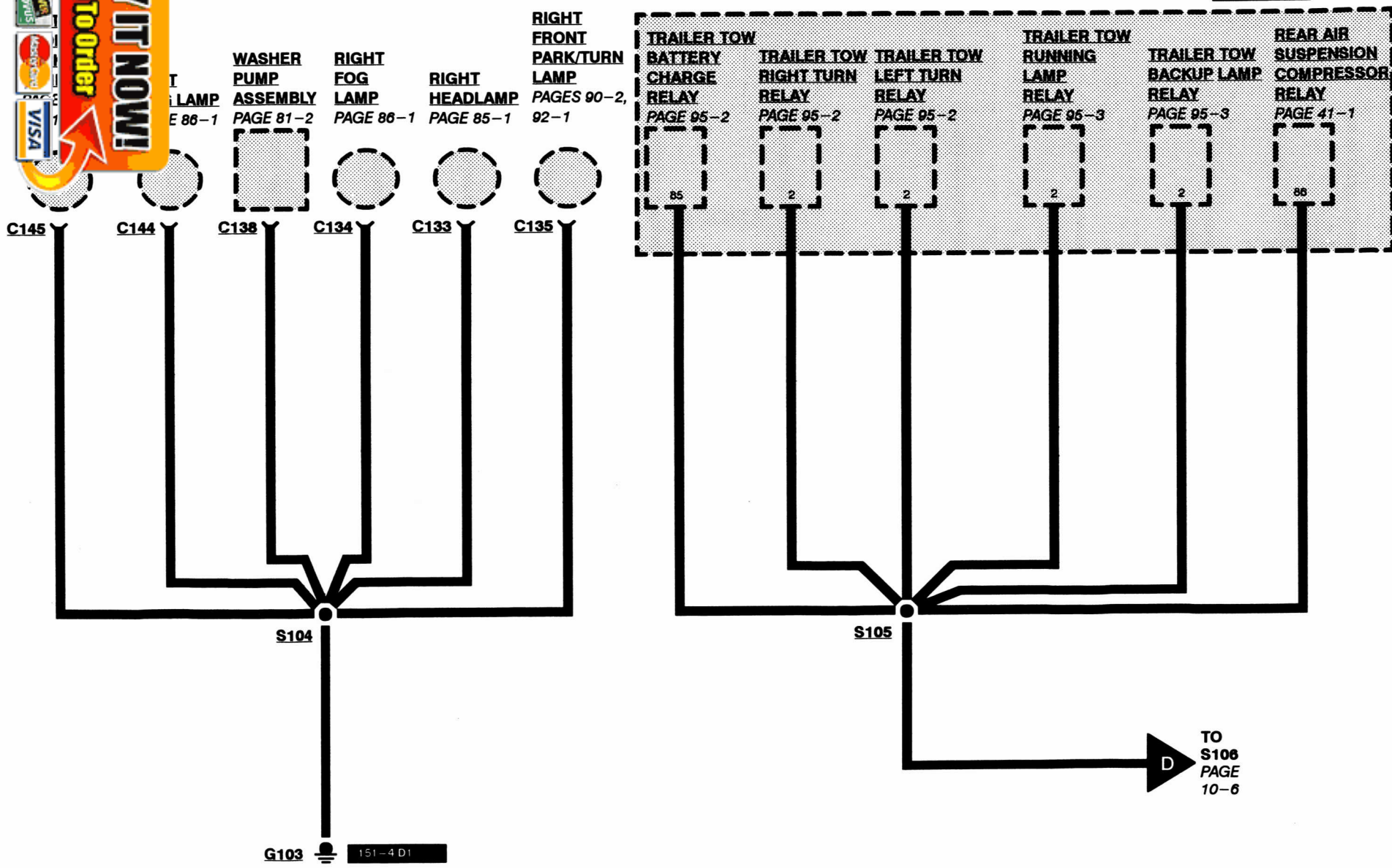
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BK noted.

POWER DISTRIBUTION RELAY BOX

151-3 C10



WASHER PUMP ASSEMBLY PAGE 81-2
 RIGHT FOG LAMP PAGE 88-1
 RIGHT HEADLAMP PAGE 85-1
 RIGHT FRONT PARK/TURN LAMP PAGES 90-2, 92-1

TRAILER TOW
 BATTERY CHARGE RELAY PAGE 95-2
 TRAILER TOW RIGHT TURN RELAY PAGE 95-2
 TRAILER TOW LEFT TURN RELAY PAGE 95-2
 TRAILER TOW RUNNING LAMP RELAY PAGE 95-3
 TRAILER TOW BACKUP LAMP RELAY PAGE 95-3
 REAR AIR SUSPENSION COMPRESSOR RELAY PAGE 41-1

G103 151-4 D1

TO S106 PAGE 10-6

GROUNDS 10-6

1998 F-150/250

REAR ANTI-LOCK BRAKE SYSTEM (RABS) PROPORTIONING VALVE SWITCH ASSEMBLY
PAGE 42-2

4 WHEEL ANTI-LOCK BRAKE SYSTEM (4WABS) MODULE
PAGE 42-4

POWER DISTRIBUTION RELAY BOX
151-3 C10

POWER DISTRIBUTION BOX
151-3 C10

BRAKE FLUID LEVEL INDICATOR SWITCH
PAGE 42-4

LEFT HEADLAMP
PAGE 85-1

FUEL PUMP ASSEMBLY
PAGES 23-6, 24-6, 25-6

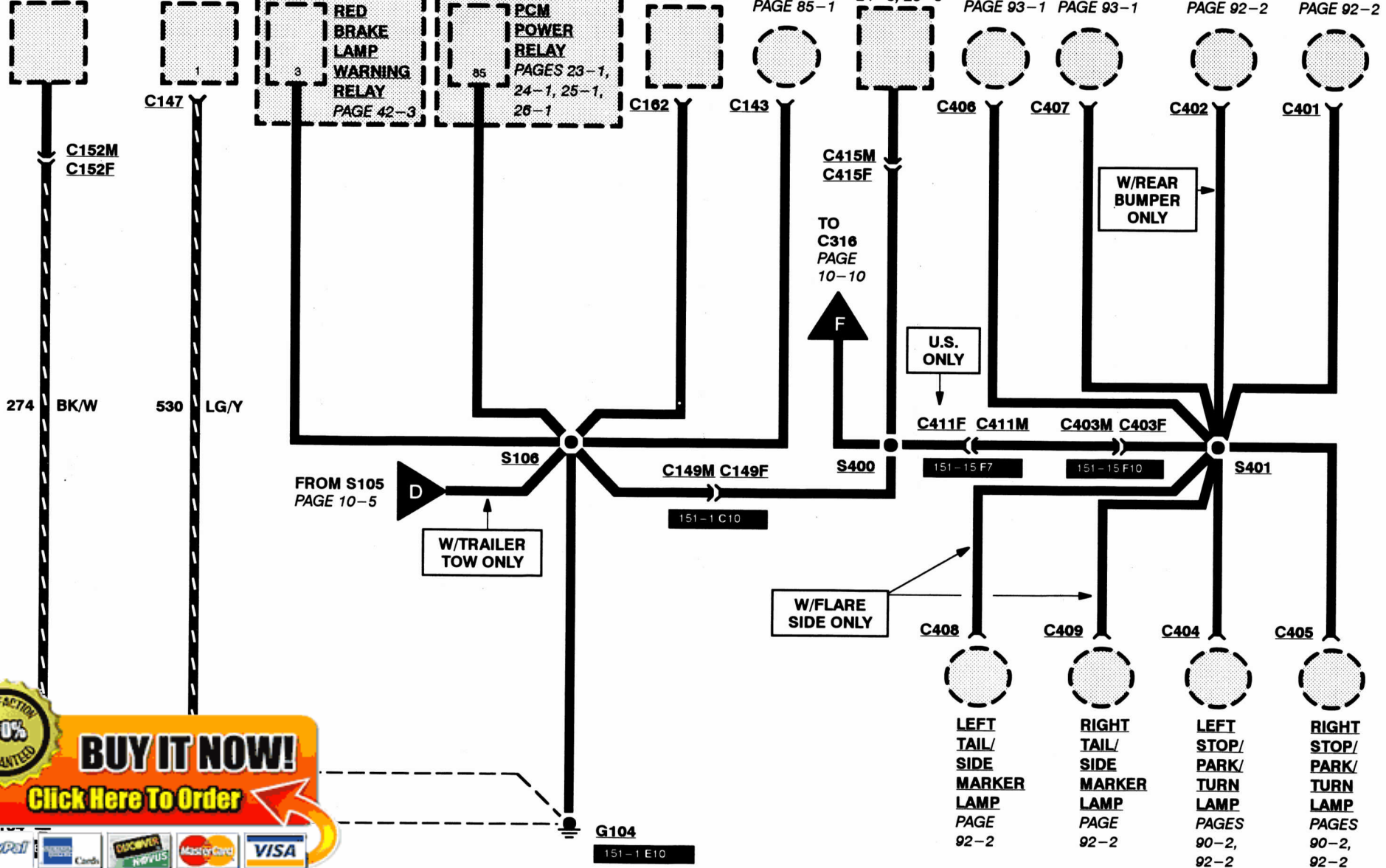
LEFT BACKUP LAMP
PAGE 93-1

RIGHT BACKUP LAMP
PAGE 93-1

RIGHT LICENSE LAMP
PAGE 92-2

LEFT LICENSE LAMP
PAGE 92-2

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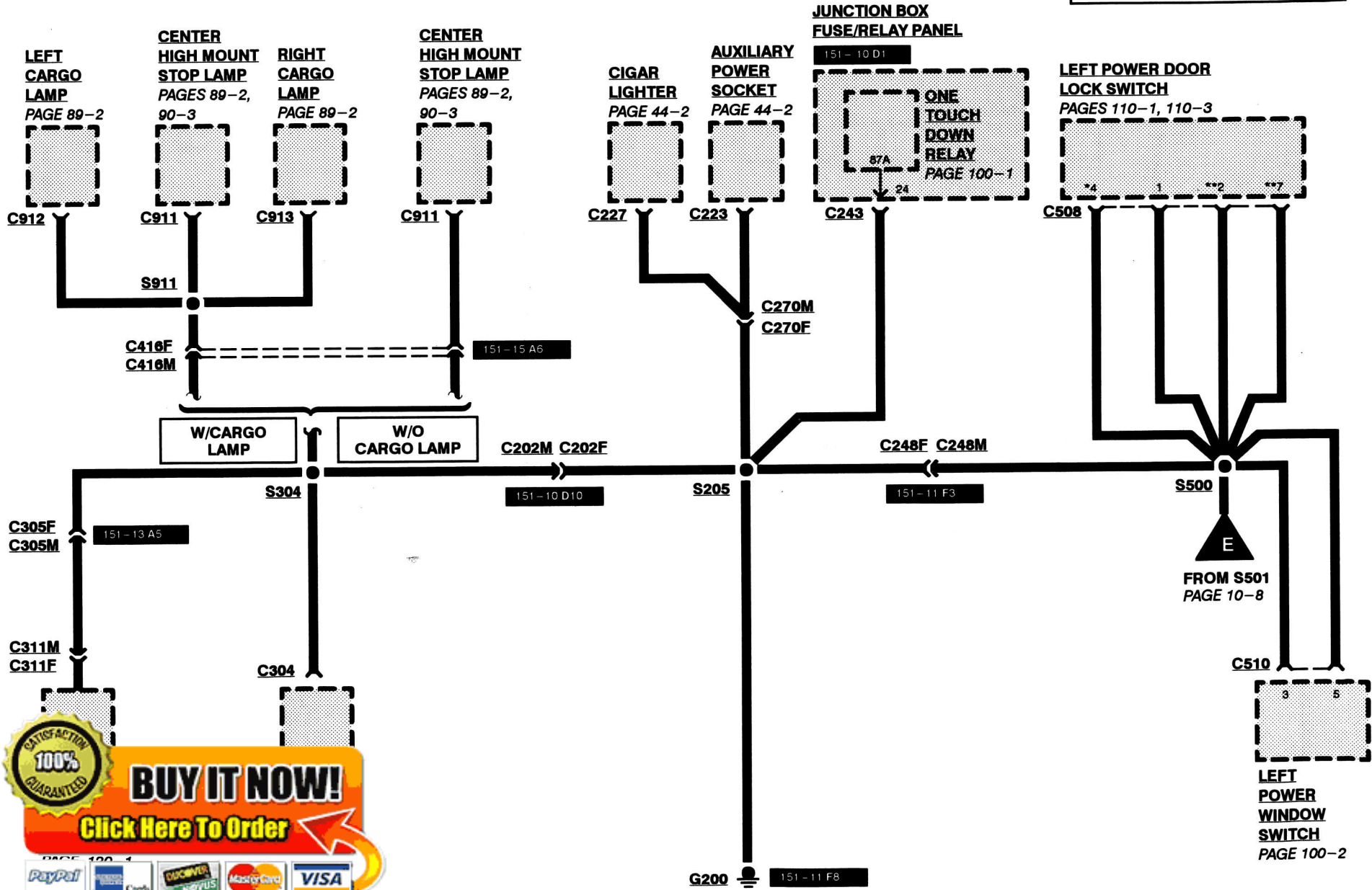
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10-7 GROUNDS

1998 F-150/250

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unless otherwise noted.

* W/REMOTE ANTI-THEFT
PERSONALITY (RAP) MODULE
** W/O REMOTE ANTI-THEFT
PERSONALITY (RAP) MODULE



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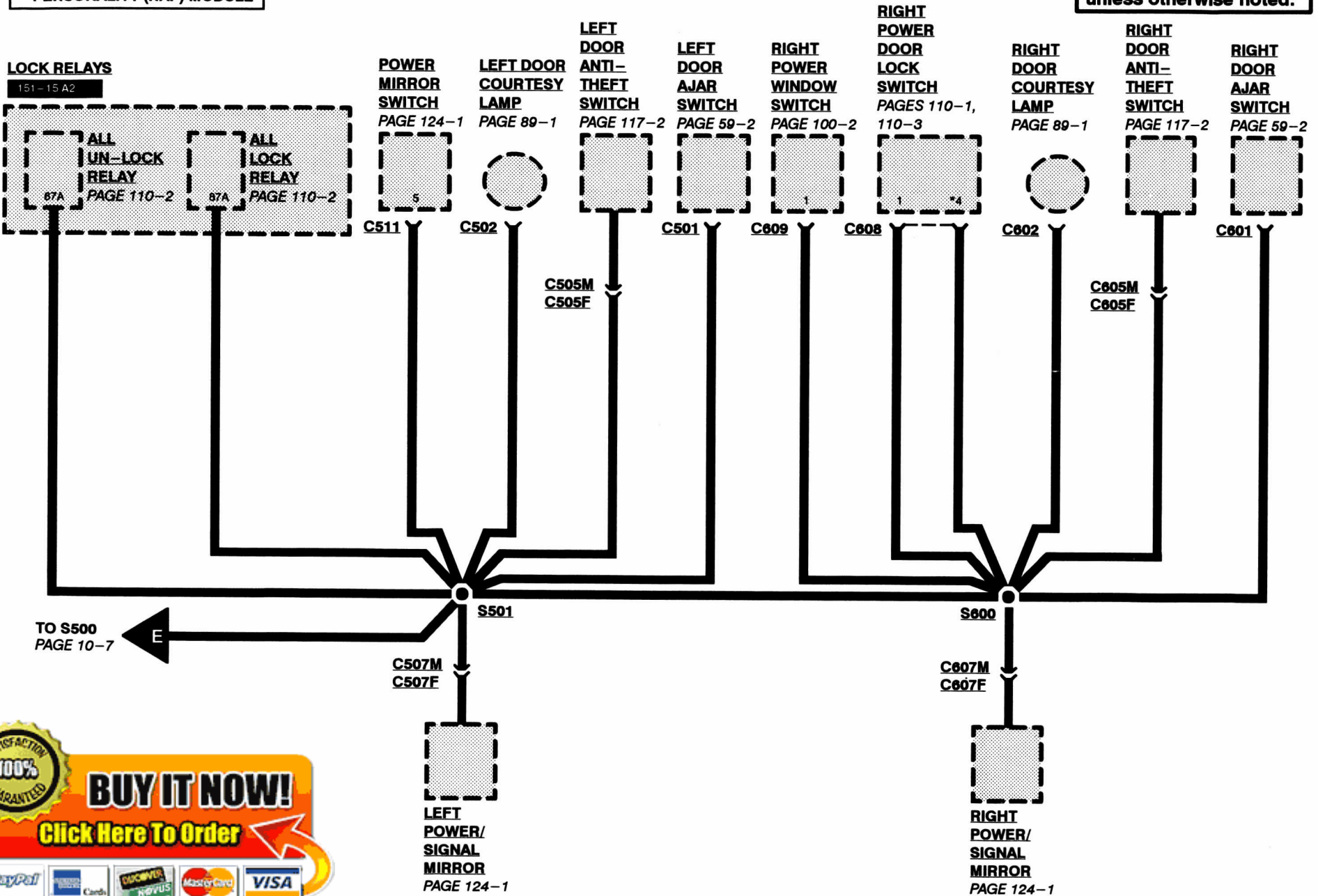
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PAGE 100-1

* W/REMOTE ANTI-THEFT PERSONALITY (RAP) MODULE

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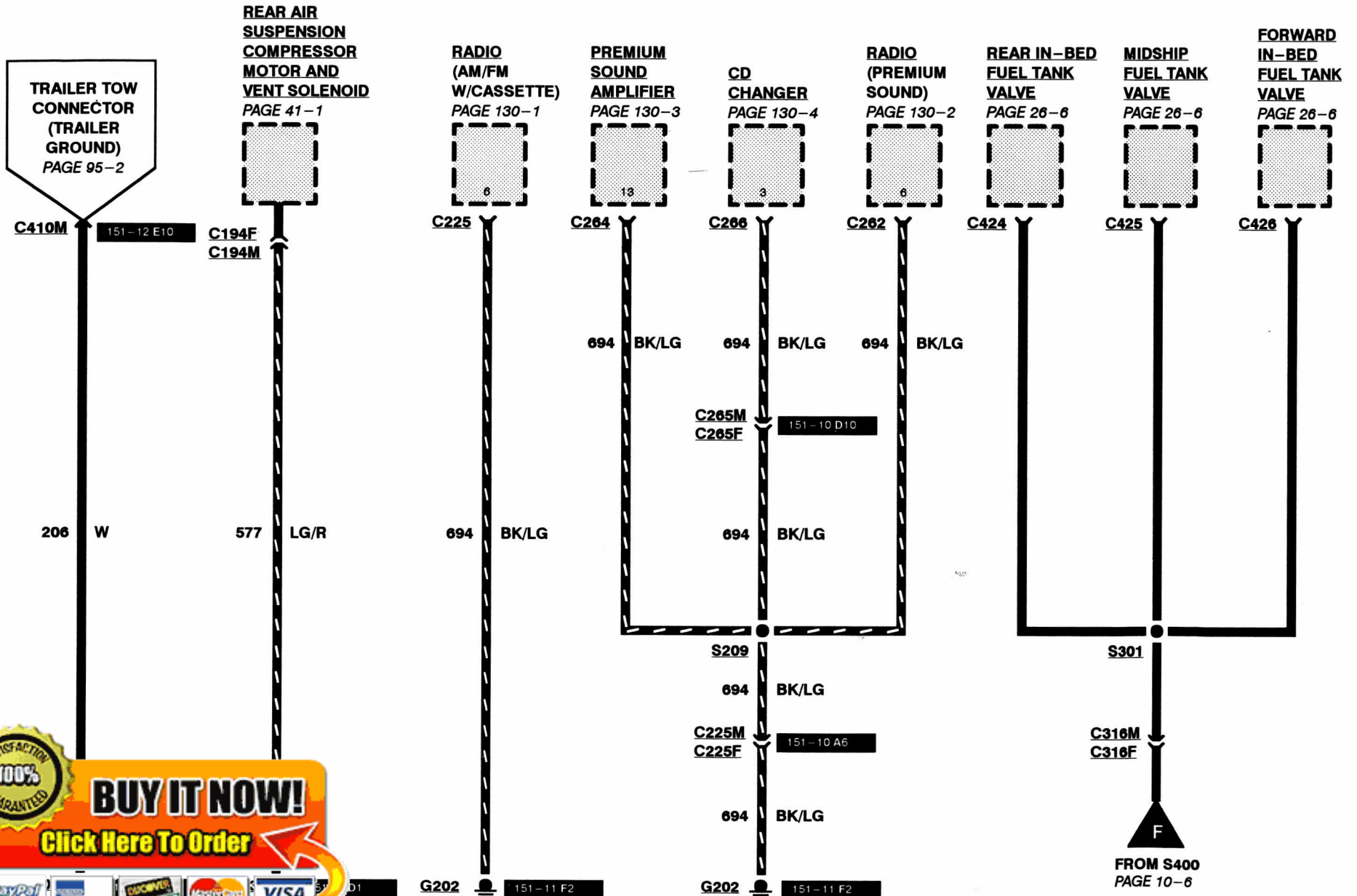


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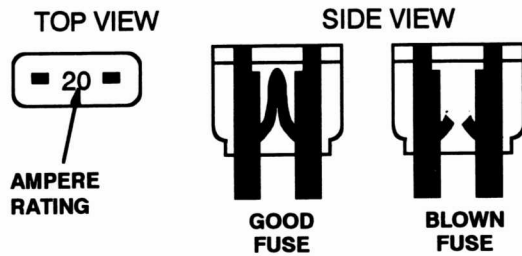
11-1 FUSE PANEL/CIRCUIT PROTECTION

1998 F-150/250

CIRCUIT PROTECTION DEVICES

Electrical circuits on this vehicle may be protected by fuses, fusible links, maxi-fuses, circuit breakers, or a combination of these devices.

BLADE TYPE FUSE



Blade type fuses have a transparent plastic housing. To check a fuse, pull it from the fuse panel and look at the fuse element through the housing. Always replace a blown fuse with a new fuse that has the same ampere rating.

The ampere rating of a blade type fuse can also be determined by following the color code shown here:

| BLADE FUSE COLOR CODING | |
|-------------------------|---------------|
| AMPERE RATING | HOUSING COLOR |
| 4 | Pink |
| 5 | Tan |
| 10 | Red |
| 15 | Light Blue |
| 20 | Yellow |

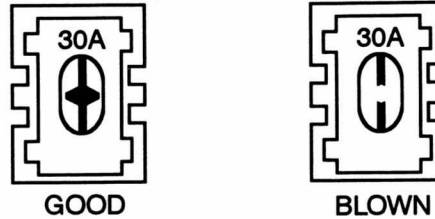
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MAXI-FUSE

TOP VIEW



Cartridge maxi-fuses have transparent plastic tops. To check a cartridge maxi-fuse, look at the fuse element through the top of the housing.

To replace a cartridge maxi-fuse, pull it from the fuse box or panel. Always replace a blown cartridge maxi-fuse with a new one having the same ampere rating.

The ampere rating of a cartridge maxi-fuse can also be determined by following the color code shown here:

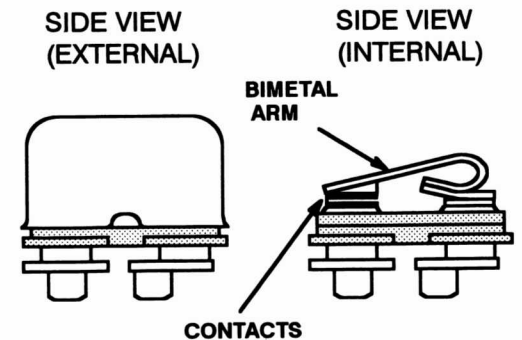
| CARTRIDGE TYPE FUSIBLE LINKS | | |
|------------------------------|-----------|------------|
| High Current Fuse Value Amps | | Color Code |
| 20A | Cartridge | Blue |
| 30A | Cartridge | Pink |
| 40A | Cartridge | Green |
| 60A | Cartridge | Yellow |

CIRCUIT BREAKER

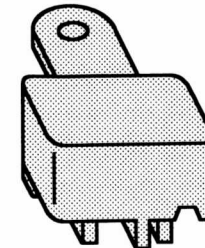
Some circuits are protected by circuit breakers (abbreviated "c. b." in fuse chart). They can be Fuse Panel mounted or in-line. Like fuses, they are rated in amperes.

Each circuit breaker conducts current through an arm made of two types of metal bonded together (bimetal arm). If the arm starts to carry too much current, it heats up. As one metal expands faster than the other the arm bends, opening the contacts. Current flow is broken. A circuit breaker can be the cycling or non-cycling type.

FUSE PANEL MOUNTED CYCLING TYPE

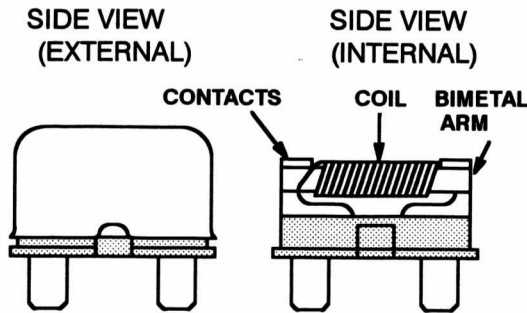


IN-LINE MOUNTED CYCLING TYPE



In the cycling type, the bimetal arm cools and straightens out. This cycle repeats as long as the overcurrent exists and power is applied.

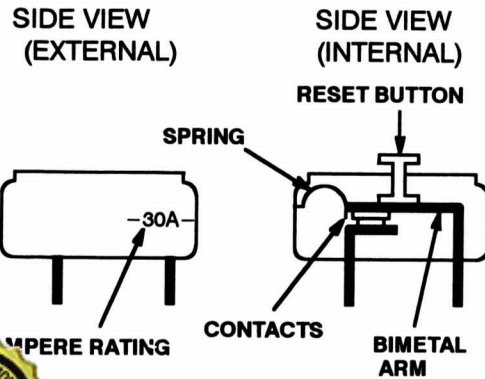
FUSE PANEL MOUNTED NON-CYCLING TYPE



In the first type, there is a coil wrapped around the bimetal arm. When an overcurrent exists and the contacts open, a small current passes through the coil. This current through the coil is not enough to operate a load, but it does heat up both the coil and the bimetal arm. This keeps the arm in the open position until power is removed.

In the second type, a spring pushes the bimetal arm down and holds the contacts together. When an overcurrent condition exists and the bimetal arm heats up, the bimetal arm bends enough to overcome the spring and the contacts snap open. The contacts stay open until the reset button is pushed and the contacts snap together again.

FUSE PANEL MOUNTED MANUAL RESET TYPE

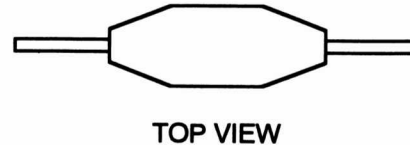


DIODE



Diodes are electrical devices that permit current to flow in one direction only. The current flows in the direction indicated by the arrow.

MEGA FUSE



Mega fuse protects the charging circuit. In the event that the mega fuse is blown due to the charging circuit failure, the generator field circuit is disabled.

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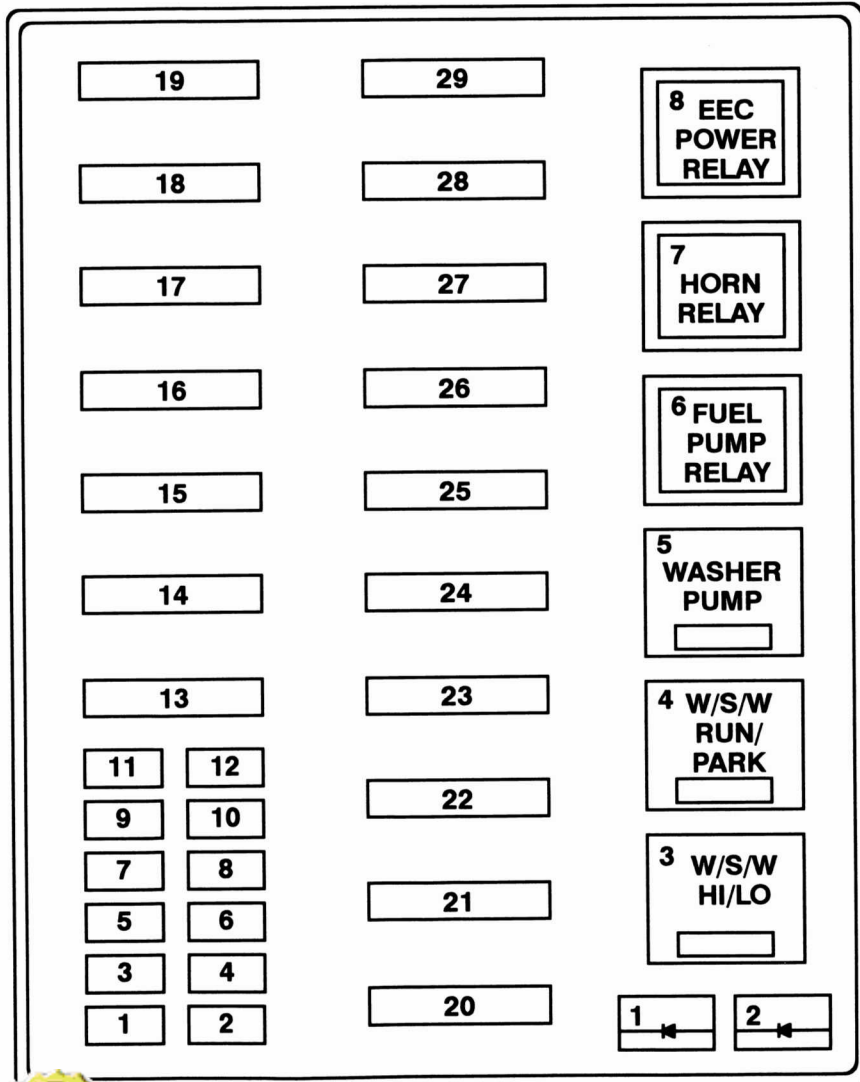
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11-3 FUSE PANEL/CIRCUIT PROTECTION

1998 F-150/250

POWER DISTRIBUTION BOX



| Fuse Position | Amps | Circuits Protected |
|---------------|-----------|---|
| 1 | 20 (MINI) | Trailer Tow Running Lamp Relay, Trailer Tow Backup Lamp Relay |
| 2 | 10 (MINI) | Airbag Diagnostic Monitor |
| 3 | 15 (MINI) | All Unlock Relay, All Lock Relay, Driver Unlock Relay, LH Power Door Lock Switch, RH Power Door Lock Switch |
| 4 | 15 (MINI) | Rear Air Suspension (RAS) |
| 5 | 20 (MINI) | Horn Relay |
| 6 | 15 (MINI) | Radio, Premium Sound Amplifier, CD Changer |
| 7 | 15 (MINI) | Main Light Switch, Park Lamp Relay |
| 8 | 30 (MINI) | Main Light Switch, Headlamp Relay, Multi-function Switch |
| 9 | 15 (MINI) | Daytime Running Lamps (DRL) Module, Fog Lamp Relay |
| 10 | 25 (MINI) | Auxiliary Power Socket |
| 11 | - | NOT USED |
| 12 | - | NOT USED |
| 13 | - | NOT USED |
| 14 | 60 (MAXI) | 4 Wheel Anti-Lock Brake System (4WABS) Module |
| 14 | 20 (MAXI) | Ignition Switch (B2) (W/RABS Only) |
| 15 | 50 (MAXI) | Rear Air Suspension Compressor |
| 16 | 40 (MAXI) | Trailer Tow Battery Charge Relay, Engine Fuse Module (Fuse 2) |
| 17 | 30 (MAXI) | Shift on the Fly Relay, Transfer Case Shift Relay |
| 18 | 30 (MAXI) | Power Seat Control Switch |
| 19 | 20 (MAXI) | Fuel Pump Relay |
| 20 | 50 (MAXI) | Ignition Switch (B4 & B5) |
| 21 | 50 (MAXI) | Ignition Switch (B1 & B3) |
| 22 | 50 (MAXI) | Junction Box Fuse/Relay Panel Battery Feed |
| 23 | 40 (MAXI) | Blower Relay |
| 24 | 30 (MAXI) | PCM Power Relay, Engine Fuse Module (Fuse 1) |
| 25 | 30 (MAXI) | Junction Box Fuse/Relay Panel, Acc Delay Relay |
| 26 | - | NOT USED |
| 27 | - | NOT USED |
| 28 | 30 (MAXI) | Trailer Electronic Brake Controller |
| 29 | - | NOT USED |



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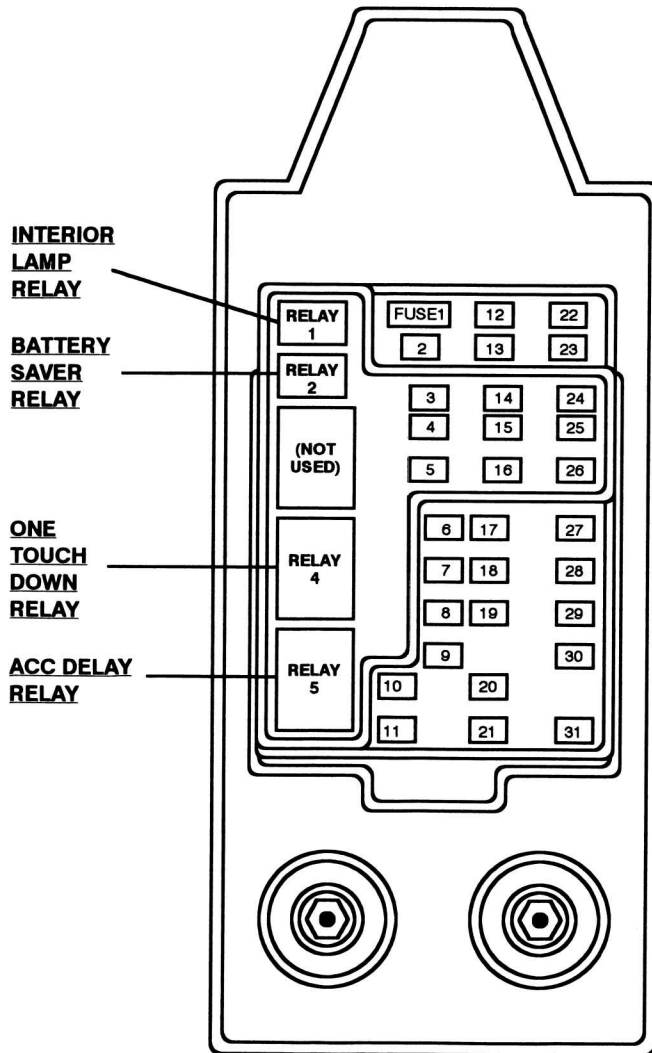


| COLOR CODE |
|------------|
| YELLOW |
| GREEN |
| ORANGE |
| RED |
| BLUE |

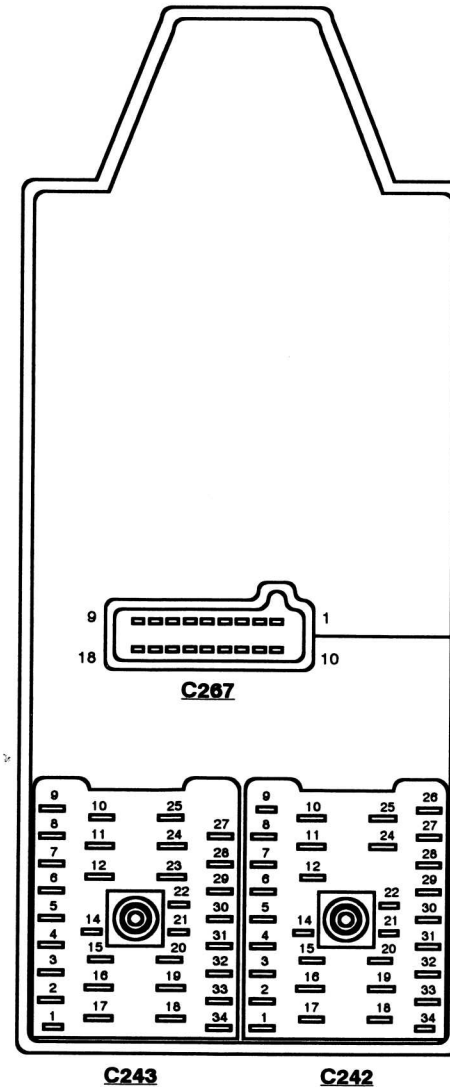
FUSE PANEL/CIRCUIT PROTECTION 11-4

1998 F150/250

JUNCTION BOX FUSE/RELAY PANEL



TOP VIEW



BOTTOM VIEW

GENERIC
ELECTRONIC
MODULE (GEM)
CONNECTOR

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11-5 FUSE PANEL/CIRCUIT PROTECTION

1998 F-150/250

| Fuse Position | Amps | Circuits Protected |
|---------------|------|---|
| 1 | 15 | Flasher Relay |
| 2 | 5 | Instrument Cluster |
| 3 | 25 | Cigar Lighter |
| 4 | 5 | Park Lamp Relay, Headlamp Relay, Autolamp Module, Remote Anti-Theft Personality (RAP) Module, Power Mirror Switch |
| 5 | 15 | Digital Transmission Range (DTR) Sensor, Daytime Running Lamps (DRL) Module, Speed Control Servo/Amplifier Assembly, Blend Door Actuator |
| 6 | 5 | Shift Lock Actuator, Generic Electronic Module (GEM), Rear Air Suspension (RAS) Module |
| 7 | - | NOT USED |
| 8 | 5 | Radio, Main Light Switch, Remote Anti-Theft Personality (RAP) Module |
| 9 | - | NOT USED |
| 10 | - | NOT USED |
| 11 | 30 | Washer Pump Relay, Wiper Run/Park Relay, Wiper Hi/LO Relay, Windshield Wiper Motor |
| 12 | 5 | Data Link Connector (DLC) |
| 13 | 15 | Rear Anti-Lock Brake System (RABS) Module, Brake Pedal Position (BPP) Switch, Brake Pressure Switch |
| 14 | 15 | Battery Saver Relay, Interior Lamp Relay |
| 15 | 5 | Generic Electronic Module (GEM)/Central Timer Module (CTM) |
| 16 | 20 | Instrument Cluster (W/O DRL), Daytime Running Lamps (DRL) Module, Hi-Beam Headlamps (Power supplied through Multi-Function Switch) |
| 17 | - | NOT USED |
| 18 | 5 | Park Lamp Relay, Trailer Electronic Brake Controller, Main Light Switch, Trailer Tow Run Relay, Front Park/Turn Lamps, License Lamps, Stop/Park/Turn Lamps, Tail/Side Marker Lamps (Power supplied through Main Light Switch) |
| 19 | 10 | Instrument Cluster, Air Bag Diagnostic Monitor |
| 20 | 5 | Powertrain Control Module (PCM), Generic Electronic Module (GEM)/Central Timer Module (CTM) |
| 21 | 15 | Clutch Pedal Position (CPP) Switch (W/O RAP), Starter Interrupt Relay (W/RAP) |
| 22 | 10 | Air Bag Diagnostic Monitor, Passive De-Activation (PAD) Module |
| 23 | 10 | Trailer Tow Battery Charge Relay, Blower/Flasher Relay Block, RPO Relay Block, 4x4 Center Axle Disconnect Solenoid Jumper |
| 24 | 10 | Function Selector Switch |
| 25 | 5 | 4 Wheel Anti-Lock Brake System (4WABS) Module, 4WABS Relay |
| 26 | 10 | Daytime Running Lamps (DRL) Module, Right Headlamp |
| | 5 | Main Light Switch, Fog Lamp Relay |
| | | Instrument Cluster, Transmission Control Switch (TCS), Brake Warning Resistor/Diode Assembly (W/RABS) |
| | | Ignition Coil, PCM Power Diode |



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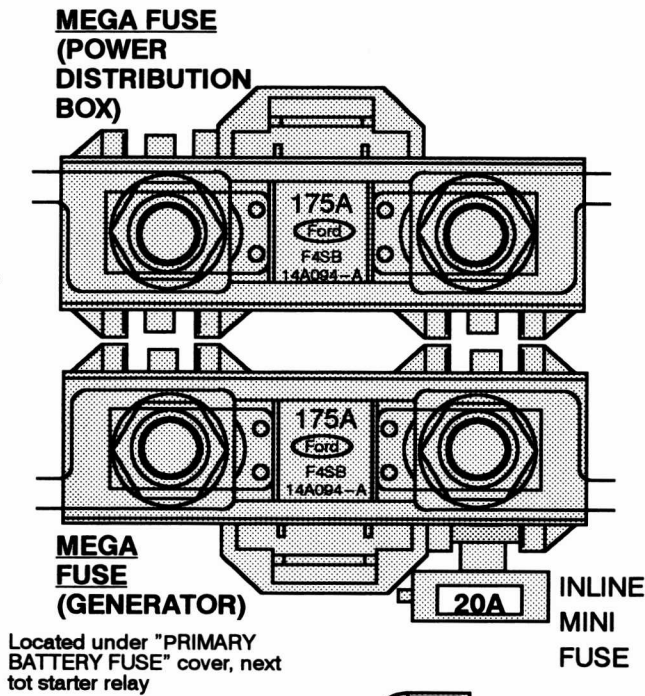




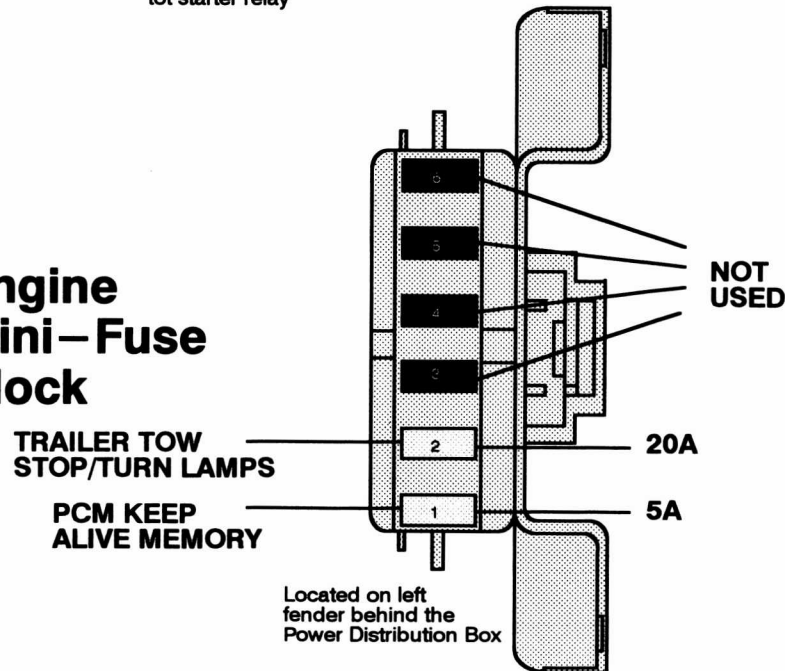
FUSE PANEL/CIRCUIT PROTECTION 11-6

1998 - F150/250

Primary Battery Fuses



Engine Mini-Fuse Block



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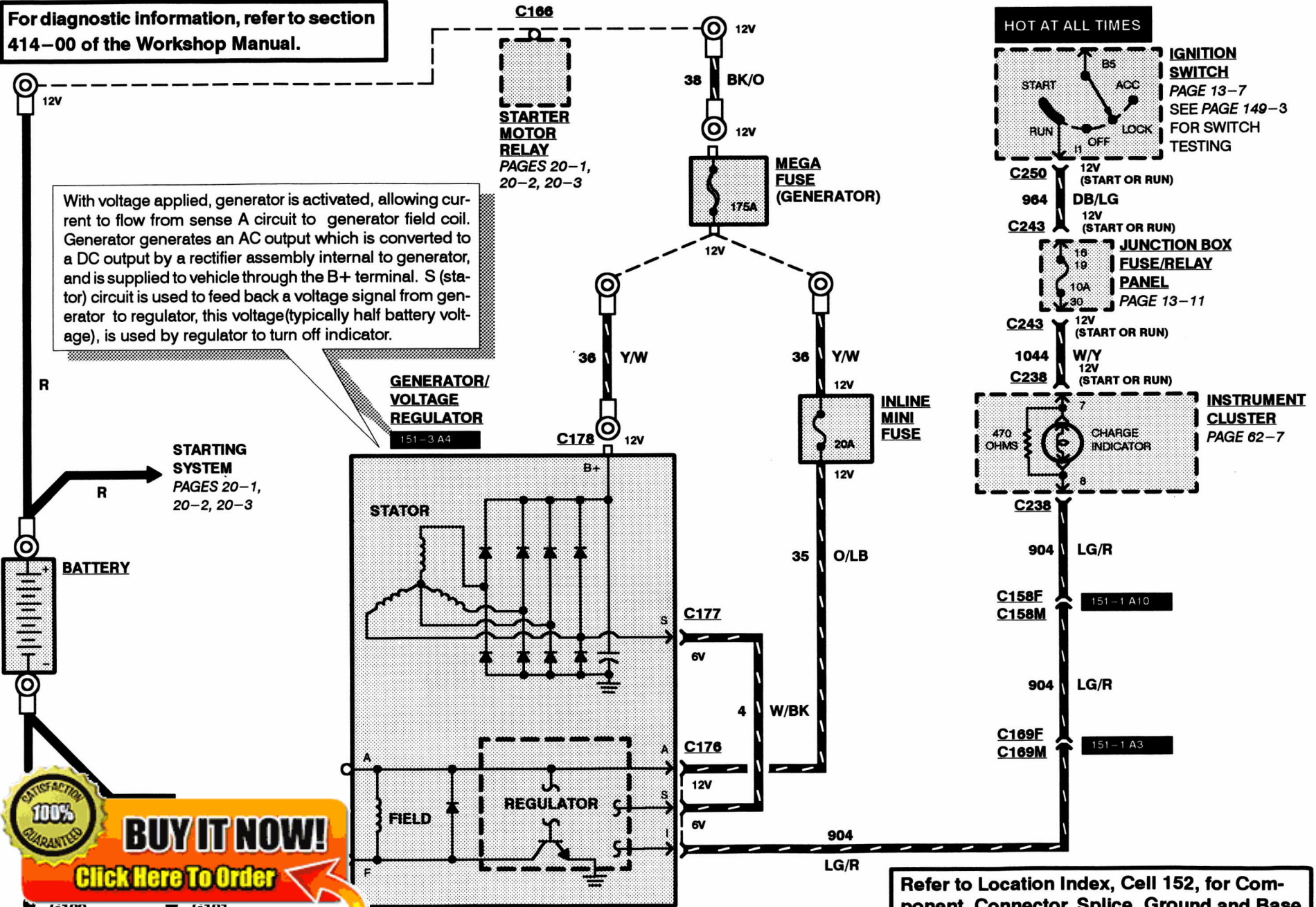
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12-1 CHARGING SYSTEM

1998 F-150/250

For diagnostic information, refer to section 414-00 of the Workshop Manual.

With voltage applied, generator is activated, allowing current to flow from sense A circuit to generator field coil. Generator generates an AC output which is converted to a DC output by a rectifier assembly internal to generator, and is supplied to vehicle through the B+ terminal. S (stator) circuit is used to feed back a voltage signal from generator to regulator, this voltage (typically half battery voltage), is used by regulator to turn off indicator.



Refer to Location Index, Cell 152, for Component, Connector, Splice, Ground and Base Part Number descriptions and locations.

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CELL 12 CONNECTOR REFERENCE LIST

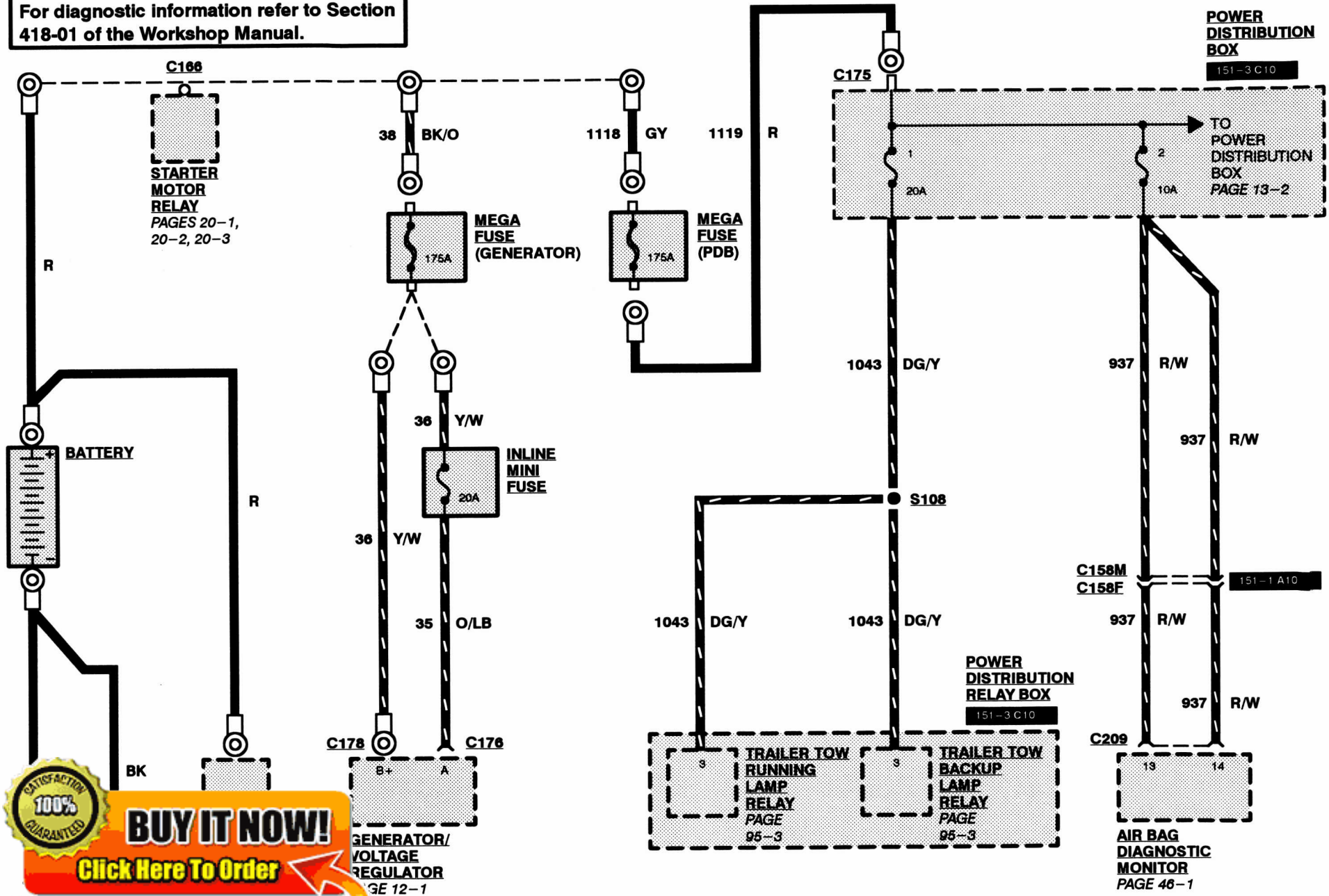
| CONNECTOR | SECTION-PAGE |
|-----------|--------------|
| C238 | 62-9 |
| C250 | 13-18 |



13-1 POWER DISTRIBUTION

1998 F-150/250

For diagnostic information refer to Section 418-01 of the Workshop Manual.



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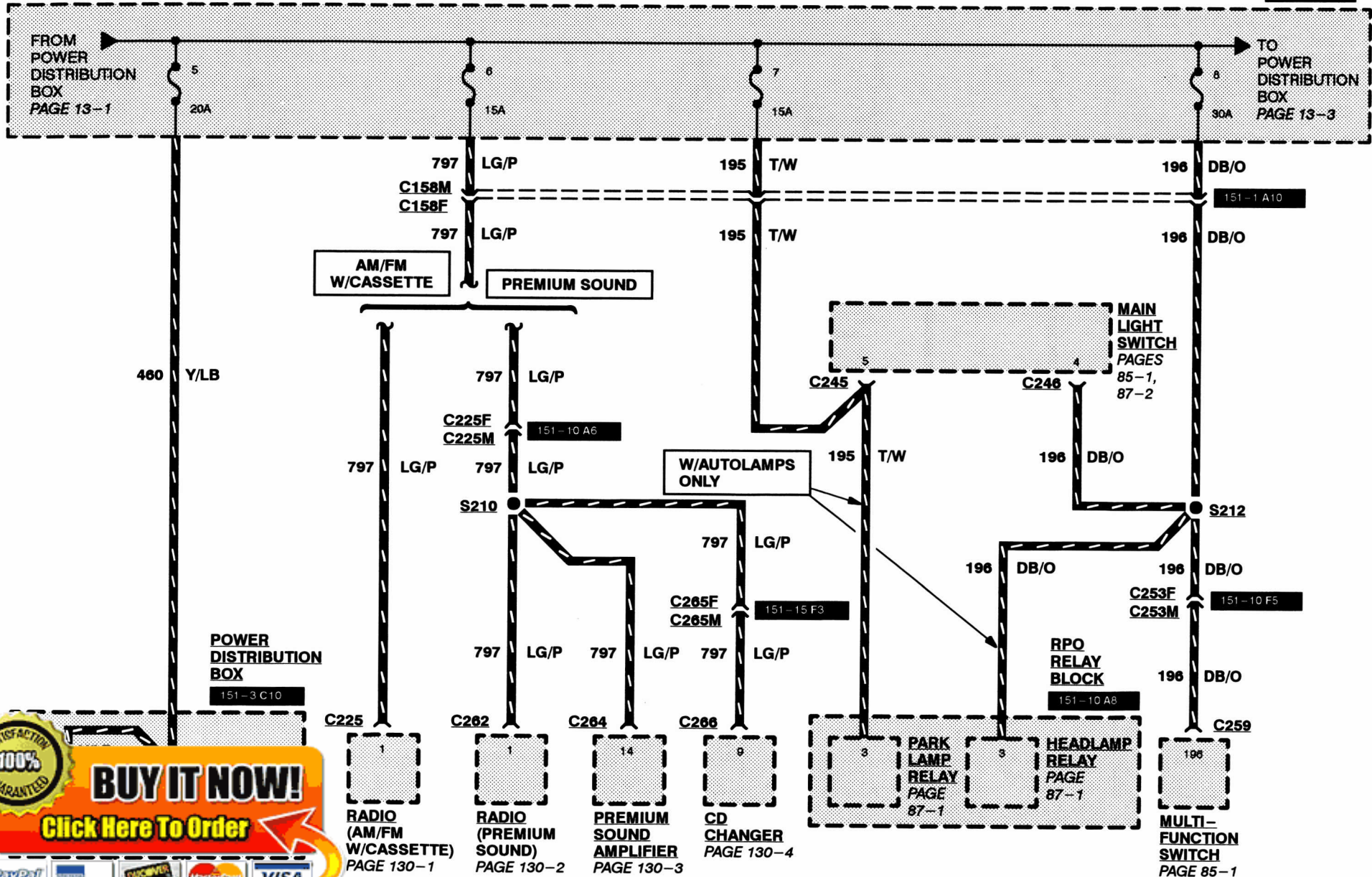
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POWER DISTRIBUTION 13-2

1998 F-150/250

POWER DISTRIBUTION BOX

151-3 C10



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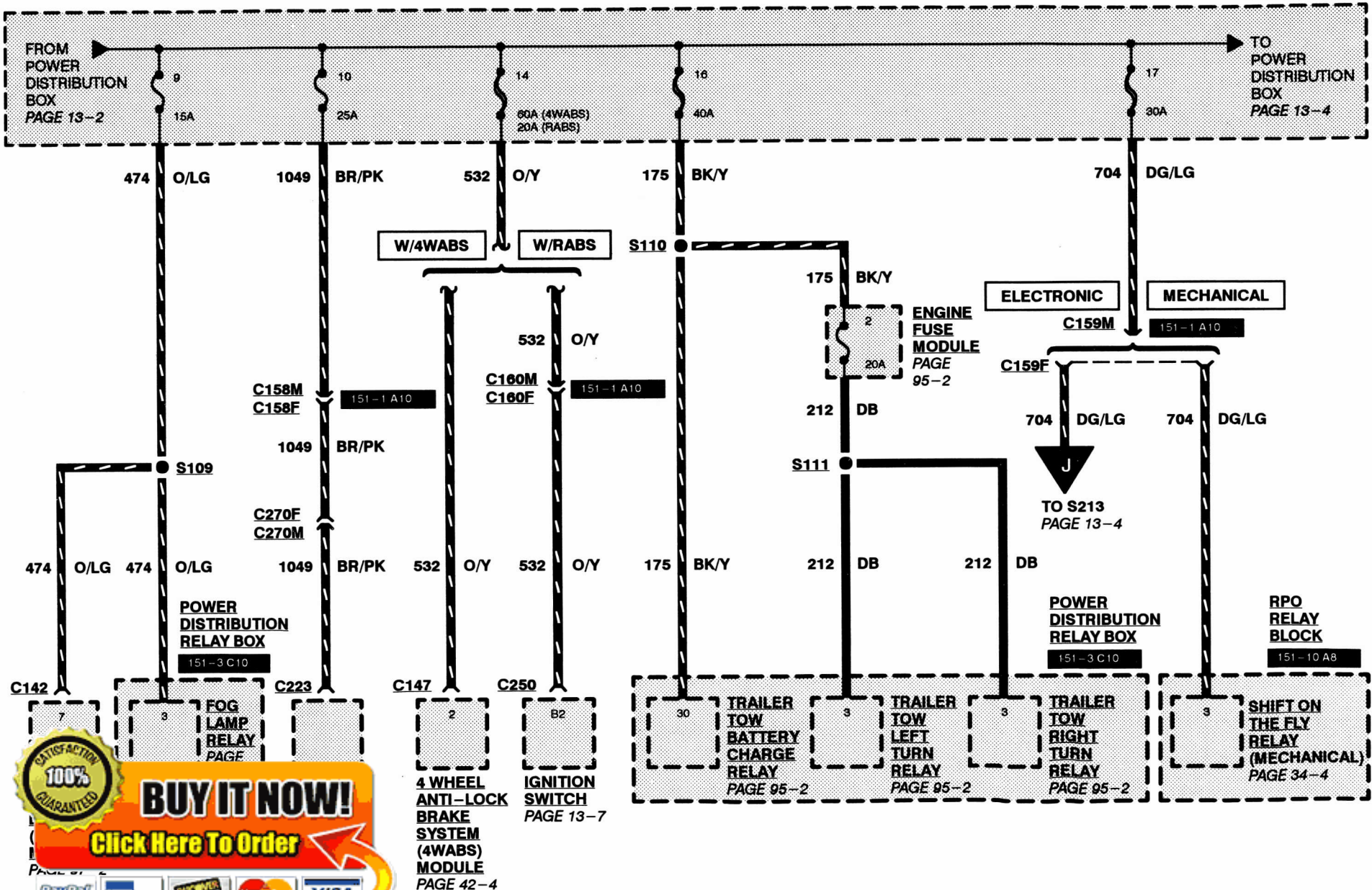
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13-3 POWER DISTRIBUTION

1998 F-150/250

POWER DISTRIBUTION BOX

151-3 C10



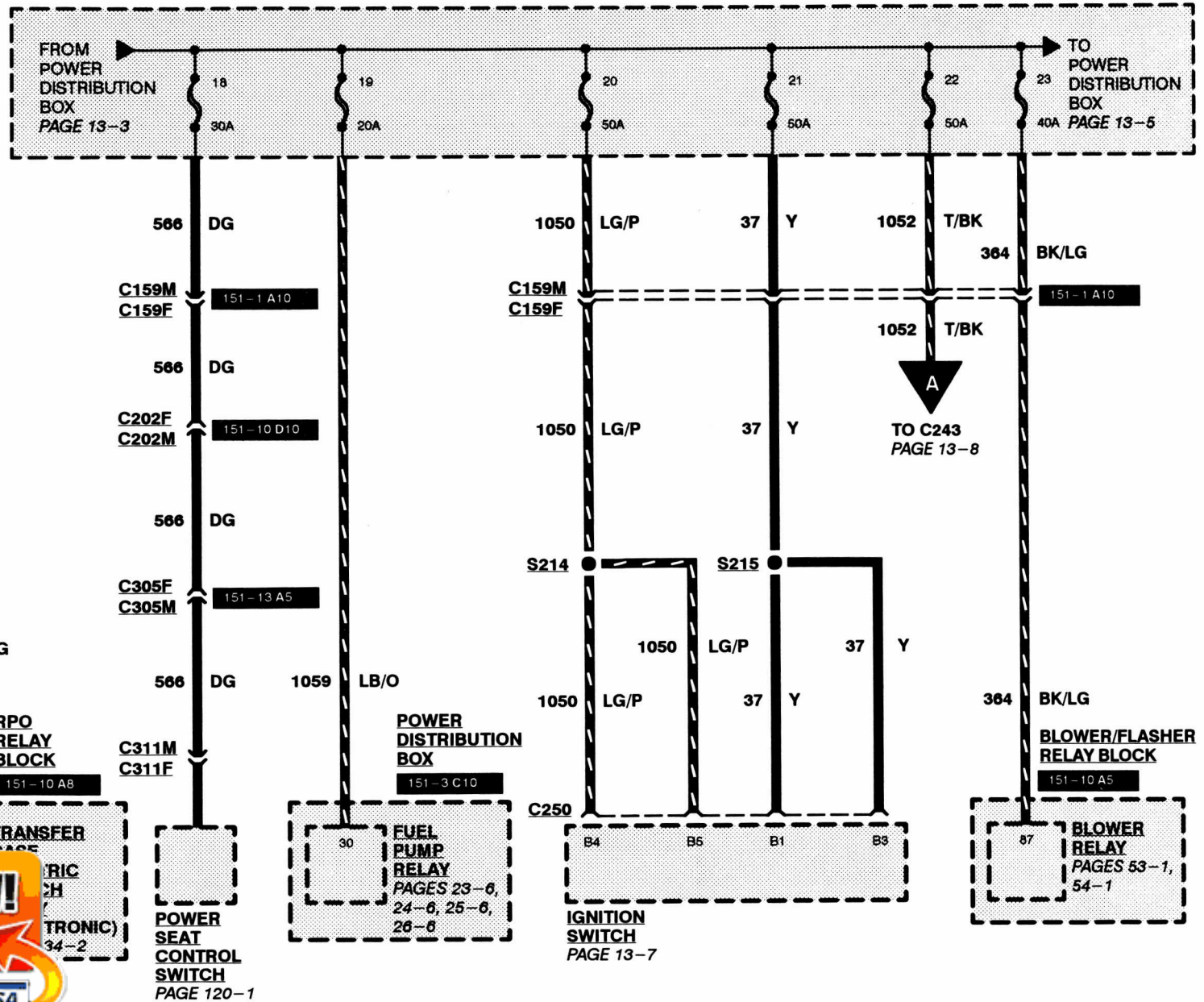
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POWER DISTRIBUTION BOX

151-3 C10



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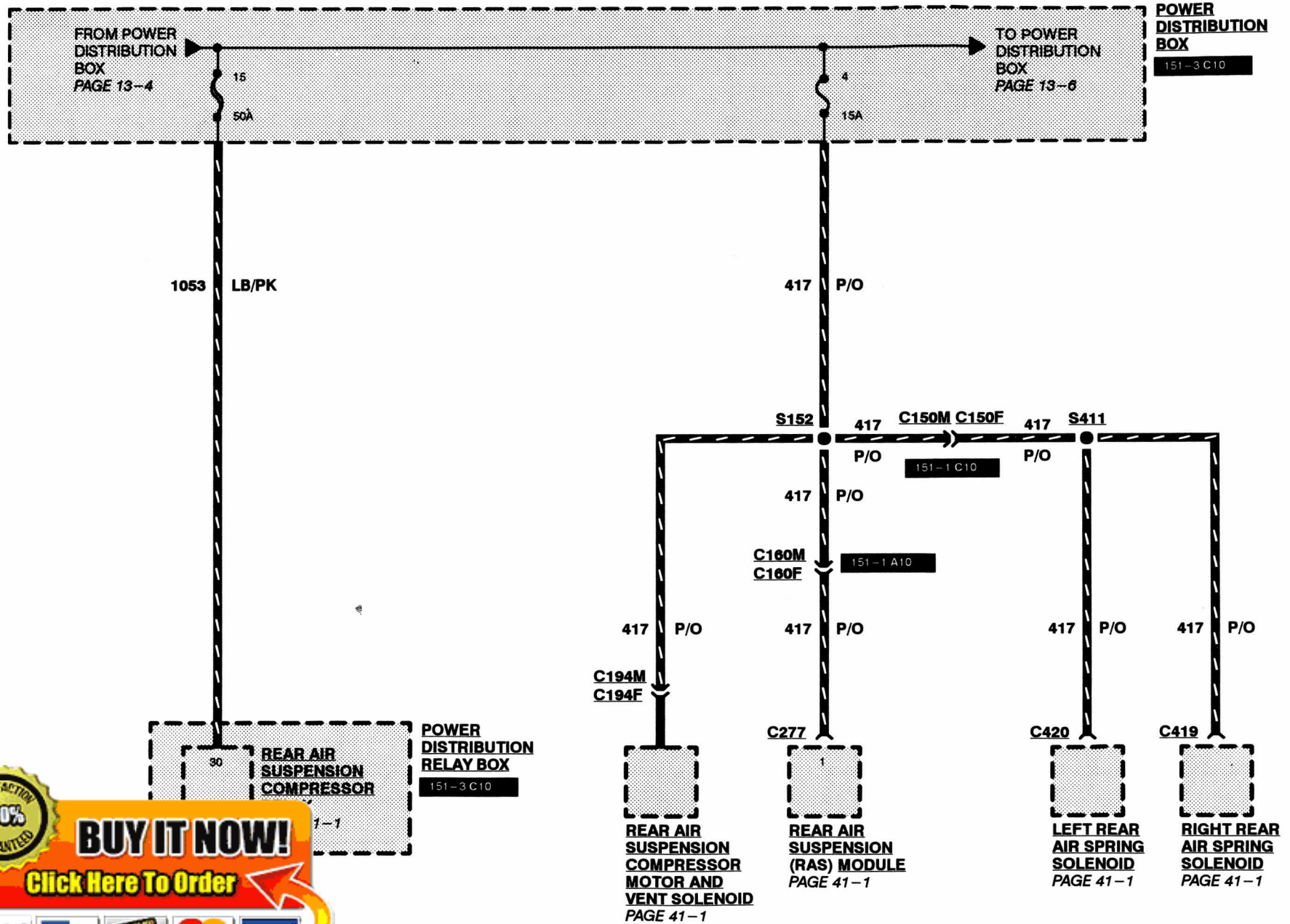
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13-5 POWER DISTRIBUTION

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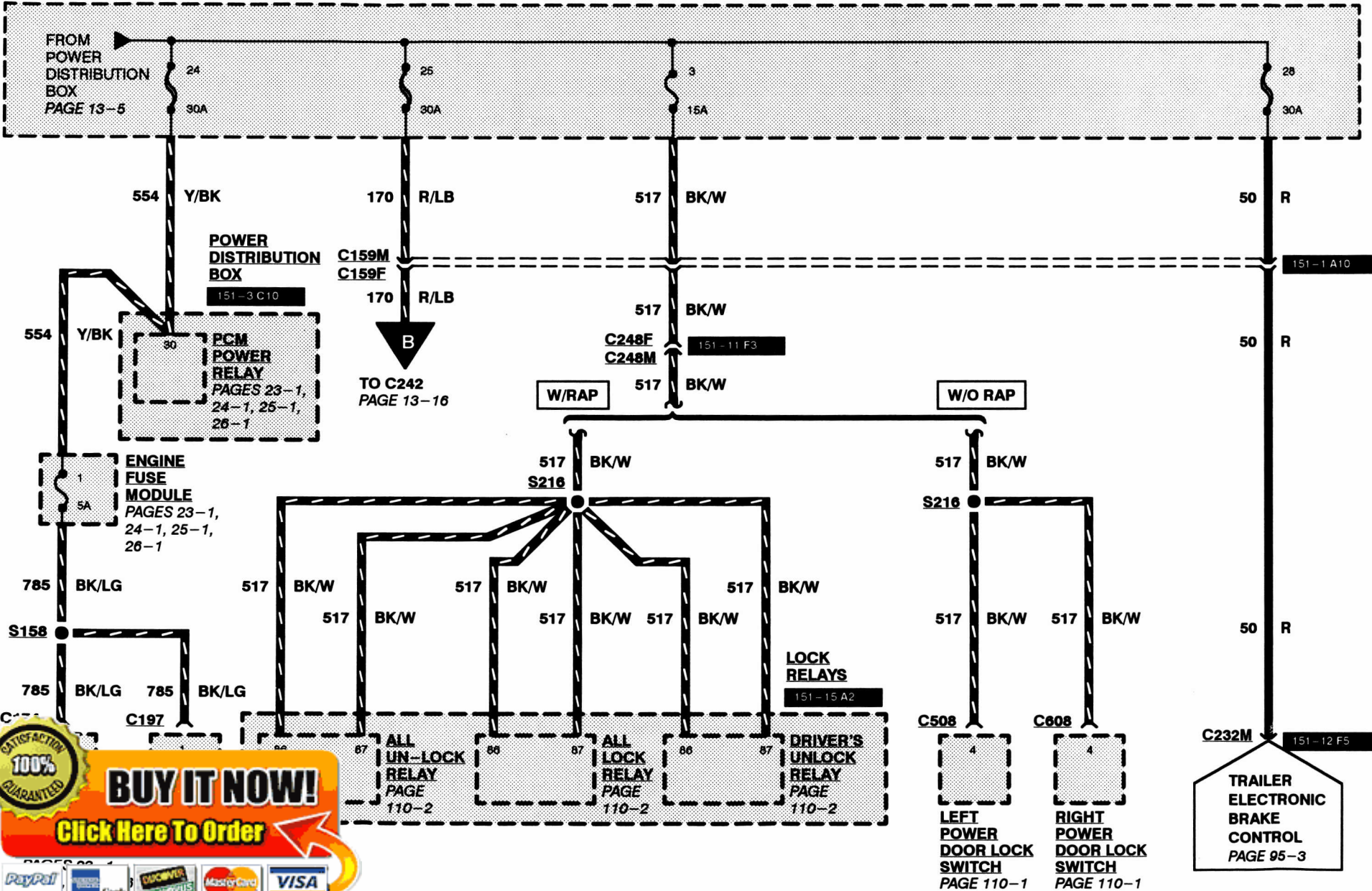
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POWER DISTRIBUTION 13-6

1998 F-150/250

POWER DISTRIBUTION BOX

151-3 C10



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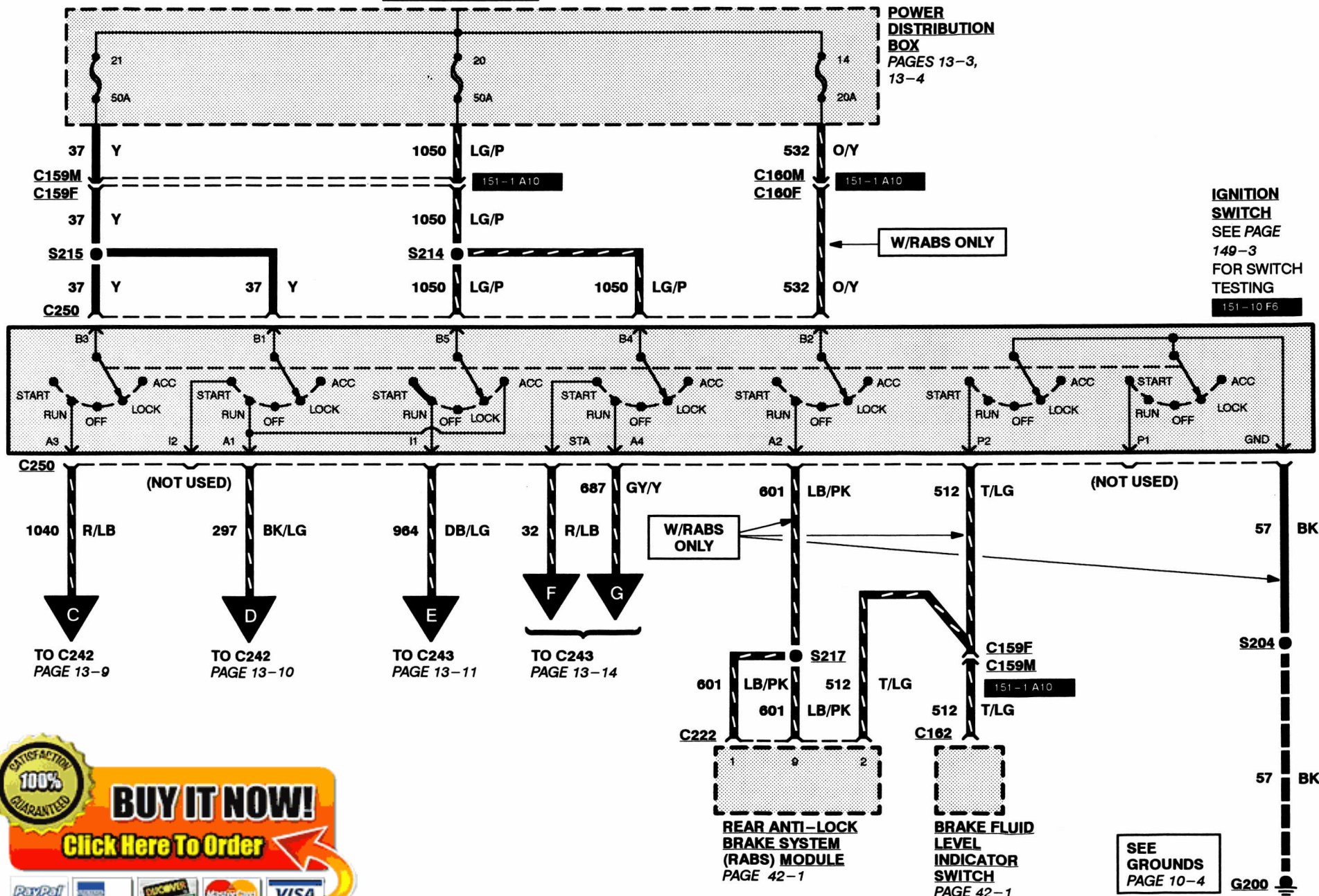
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13-7 POWER DISTRIBUTION

1998 F-150/250

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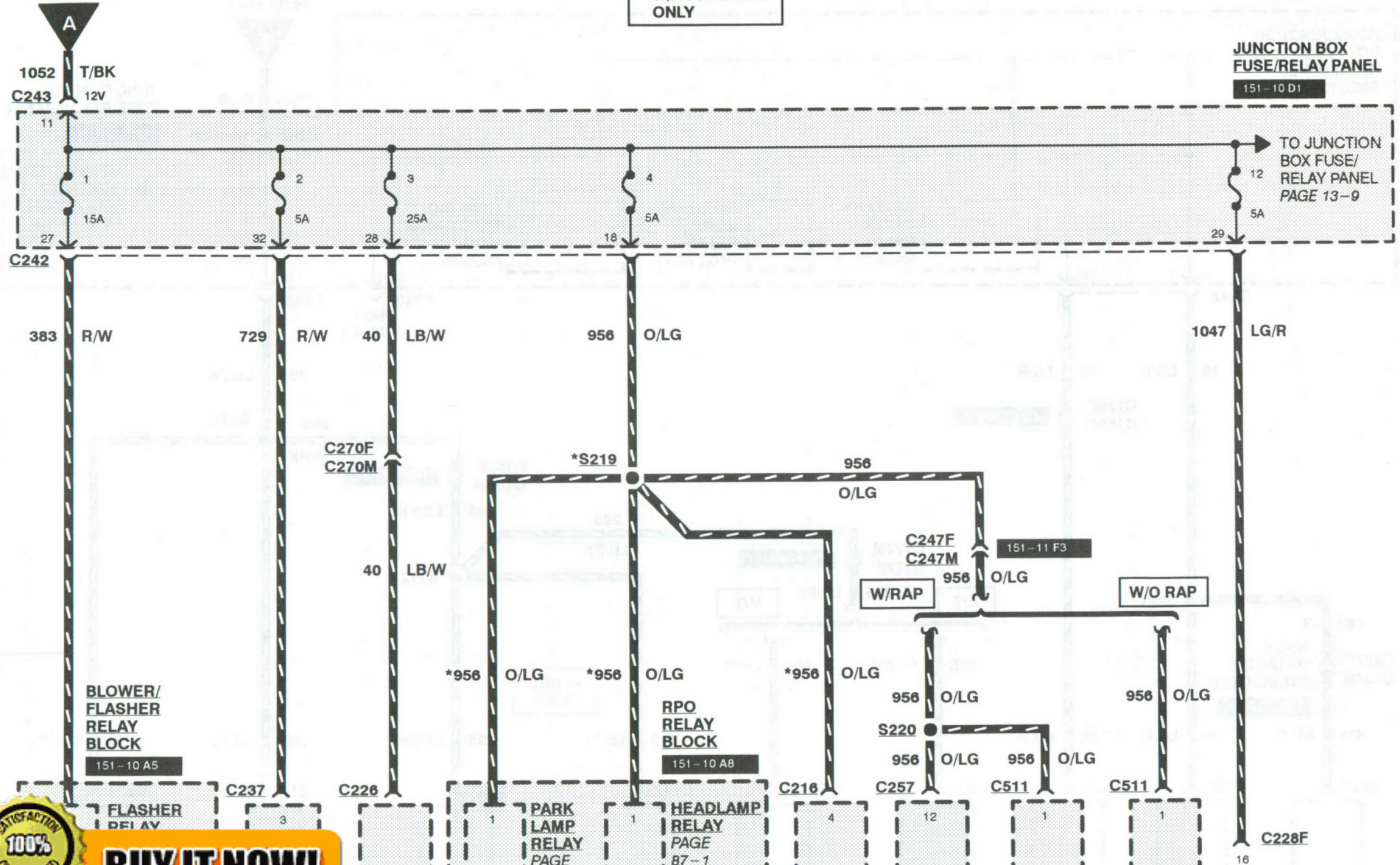
POWER DISTRIBUTION 13-8

1998 F-150/250

FROM C159
PAGE 13-4

* W/AUTOLAMPS
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JUNCTION BOX
FUSE/RELAY PANEL
151-10 D1



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1 PARK LAMP RELAY
PAGE 87-1

1 HEADLAMP RELAY
PAGE 87-1

4 AUTOLAMP MODULE
PAGE 87-1

12 REMOTE ANTI-THEFT PERSONALITY (RAP) MODULE
PAGE 117-1

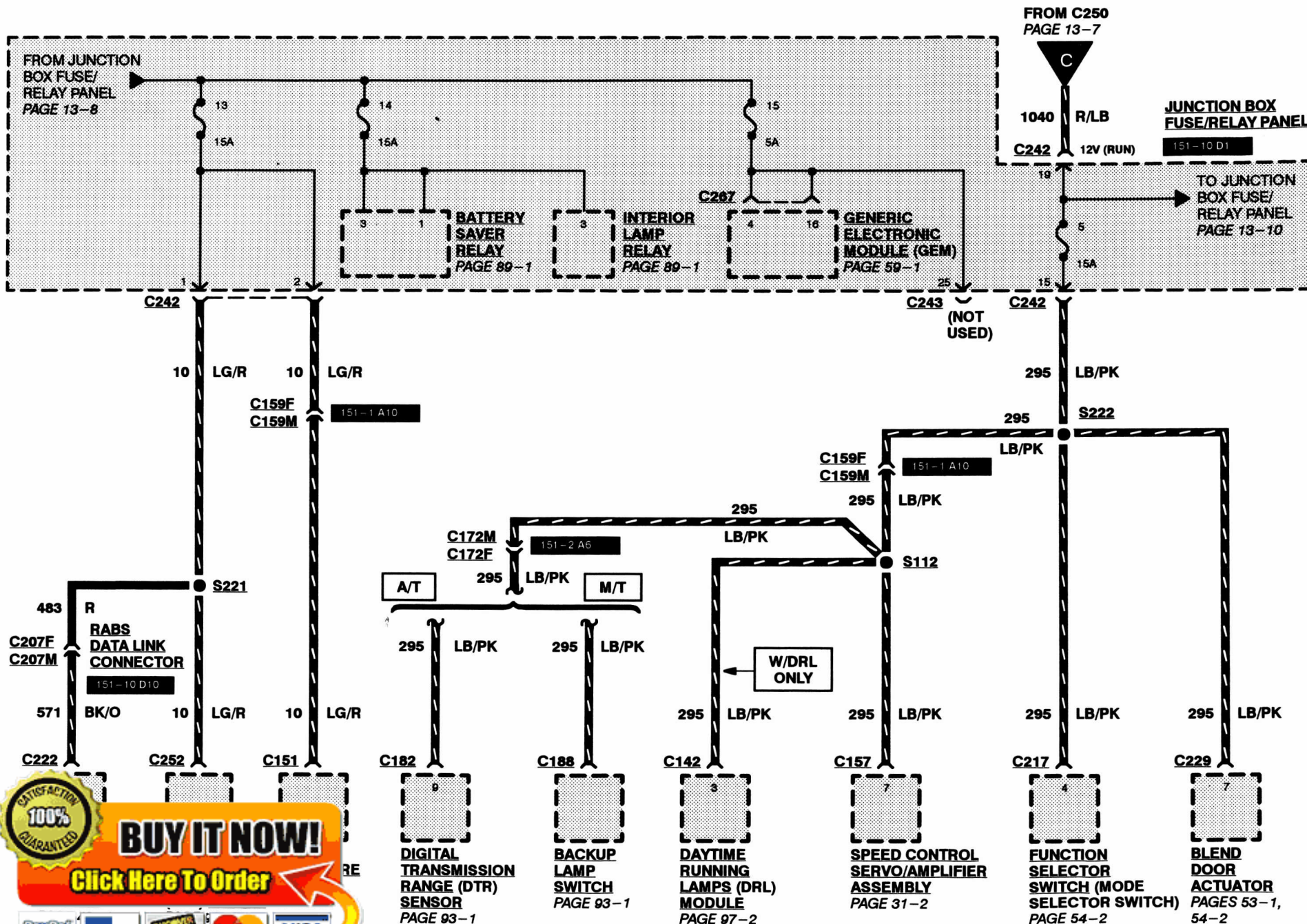
1 POWER MIRROR SWITCH
PAGE 124-1

1 POWER MIRROR SWITCH
PAGE 124-1

DATA LINK CONNECTOR (DLC)
PAGE 14-1

13-9 POWER DISTRIBUTION

1998 F-150/250



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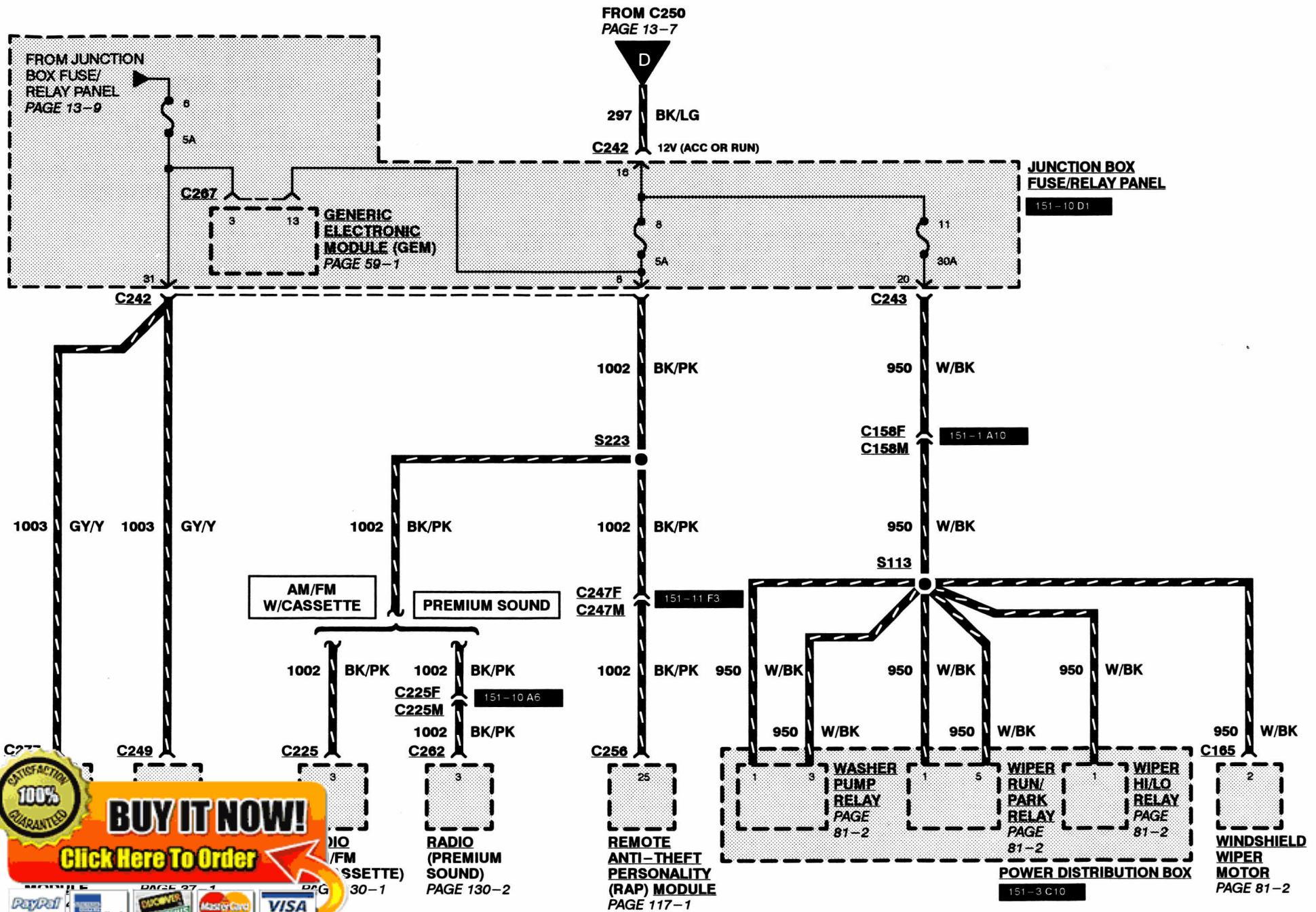
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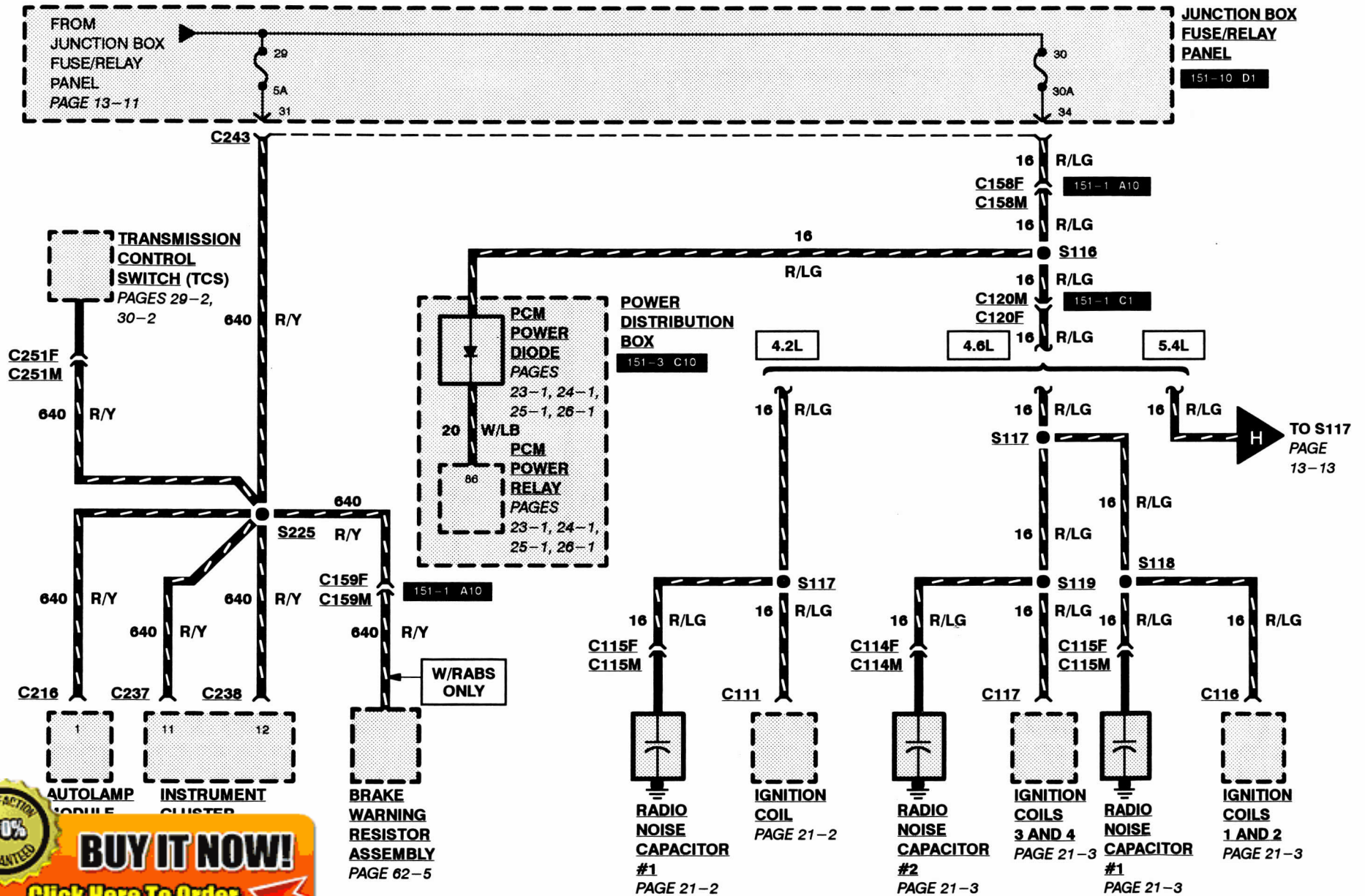
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POWER DISTRIBUTION 13-12

1998 F-150/250



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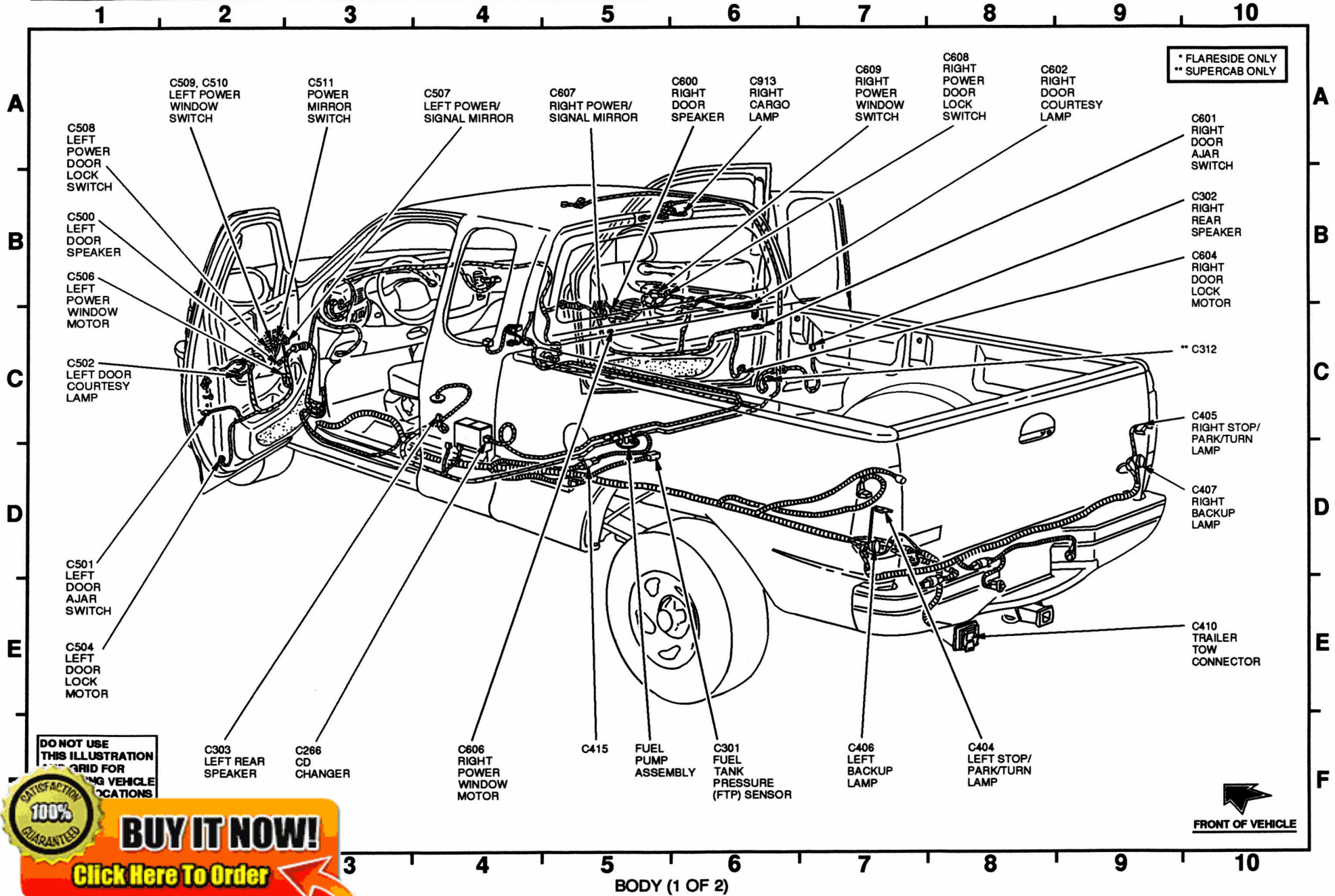
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COMPONENT LOCATION VIEWS 151-14

1998 F-150/250



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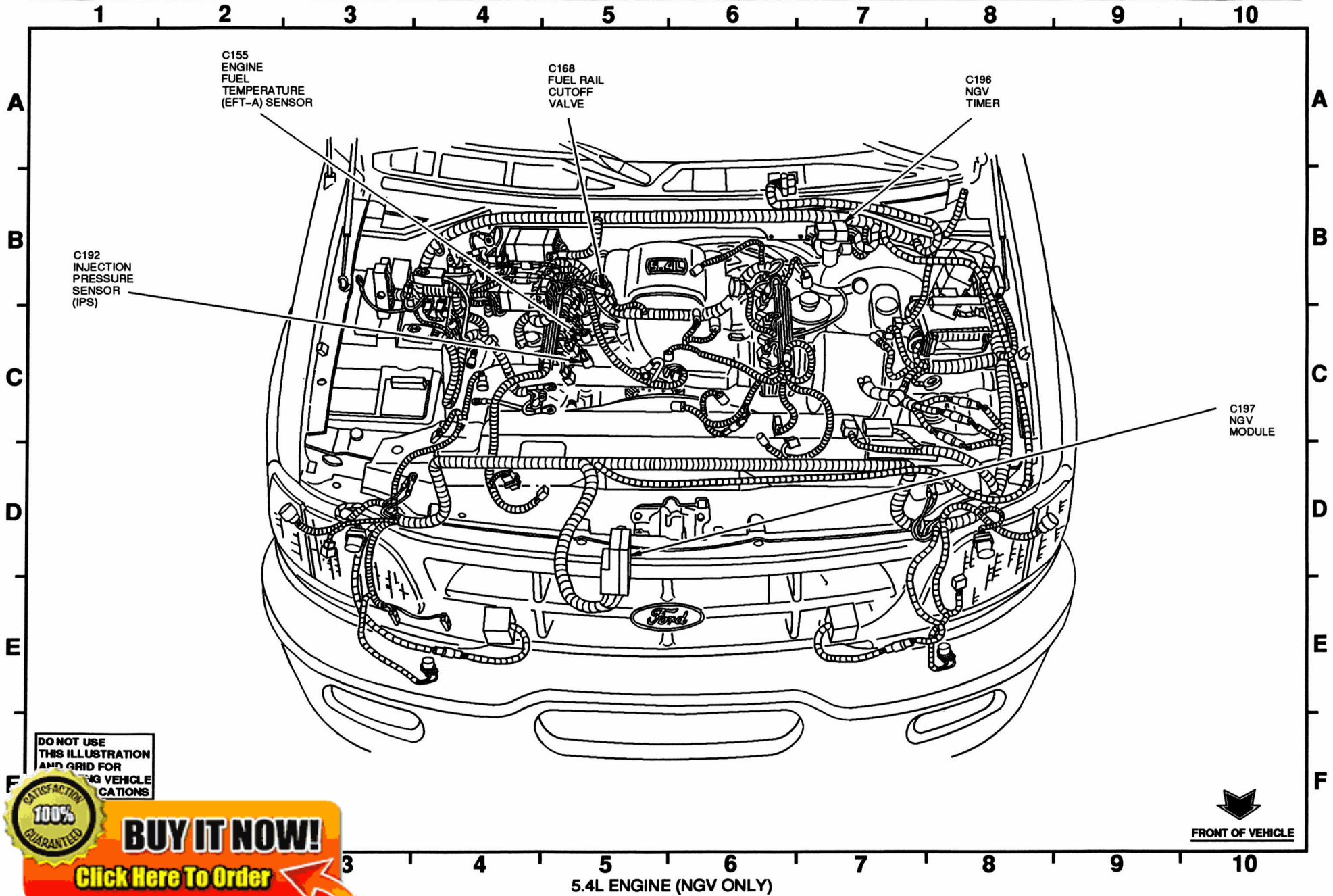
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COMPONENT LOCATION VIEWS 151-16

1998 F-150/250 (NGV)



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AND GRID FOR
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APPLICATIONS

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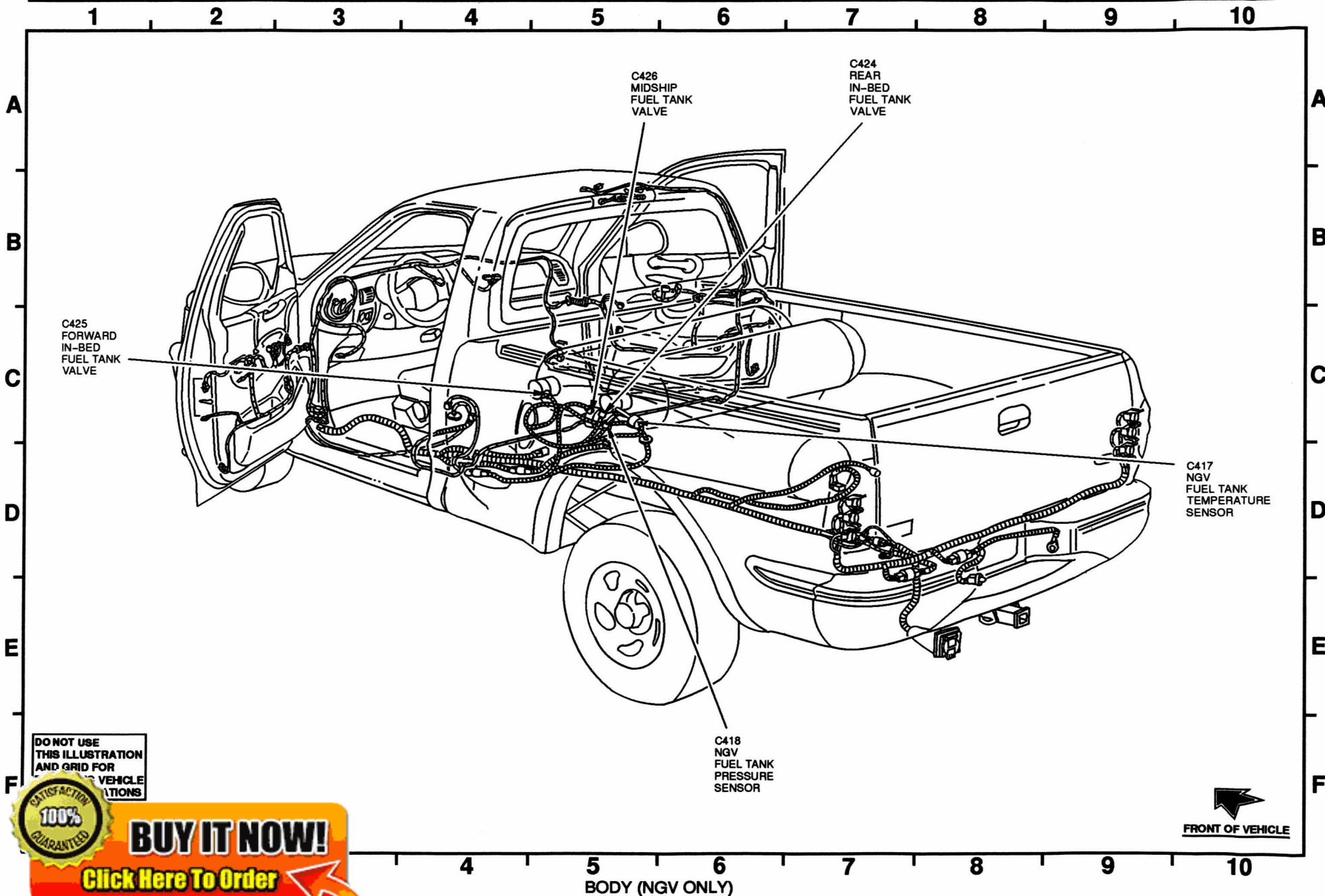
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151-17 COMPONENT LOCATION VIEWS

1998 F-150/250 (NGV)



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152-1 LOCATION INDEX

1998 F-150/250

| <u>Component</u> | <u>Base Part No.</u> | <u>Location</u> | <u>Component Connector</u> | <u>Page Zone</u> | <u>Connector Page</u> |
|---|----------------------|--|----------------------------|------------------|-----------------------|
| 4X2 Center Axle Disconnect Solenoid | ★ | Right side of engine compartment | C181 | 151-3 A2 | |
| 4X4 Low Indicator Switch | ★ | Left side of transmission | C189 | 151-9 F5 | |
| 4X4 Center Axle Disconnect Solenoid | ★ | Right side of engine compartment | C180 | 151-3 A1 | |
| 4R70W Transmission | 7000 | Mounted under center of vehicle | C183 | 151-8 C4 | 29-4 |
| 4 Wheel Anti-Lock Brake System (4WABS) Module | 2C018 | Left side of engine compartment | C146, C147 | 151-1 F9 | 42-6 |
| 4 Wheel Drive Mode Switch | ★ | Center of I/P | C230 | 151-12 F7 | 34-6 |
| ACC Delay Relay | ★ | In junction box fuse/relay panel | ★ | ★ | 11-4 |
| A/C Clutch Diode | 14A604 | Taped in harness, near A/C compressor clutch | ★ | ★ | |
| A/C Clutch Cycling Pressure Switch | 19D784 | Right rear corner of engine compartment | C139 | 151-2 A5 | |
| A/C Compressor Clutch Solenoid | 19E561 | Left side of engine compartment | C106 | 151-1 F8 | |
| A/C Pressure Cutoff Switch | 190594 | Right side of engine compartment | C170 | 151-3 D1 | |
| Air Bag Delete | ★ | Base of steering column | C269 | ★ | |
| Air Bag Diagnostic Monitor | 043B13 | Behind right side of I/P | C208, C209 | 151-12 C10 | 46-3 |
| All Lock Relay | ★ | In RPO relay block | ★ | ★ | 13-20 |
| All Unlock Relay | ★ | In RPO relay block | ★ | ★ | 13-20 |
| Ashtray Illumination | 15052 | Top side of ashtray bracket | C212 | 151-11 B10 | |
| Autolamp Module | 14A597 | Behind center of I/P | C216 | 151-11 A7 | 87-4 |
| Auxiliary Power Socket | ★ | Behind center of I/P | C223 | 151-11 A8 | |
| Backup Lamp Switch | 15520 | Left side of transmission | C188 | 151-8 F4 | |
| Battery | ★ | Right side of engine compartment | ★ | ★ | |
| Battery Saver Relay | ★ | In junction box fuse/relay panel | ★ | ★ | 11-4 |
| Blend Door Actuator | 19E616 | Behind center of I/P | C229 | 151-10 F8 | |
| Blower/Flasher Relay Block | ★ | Behind center of I/P | ★ | 151-10 A5 | 13-20 |
| Blower Motor | 14N089 | Right side of engine compartment | C190 | 151-15 A1 | |
| Blower Motor Resistor | 19A706 | Near blower motor | C191 | 151-15 E1 | |
| Blower Relay | ★ | In blower/flasher relay | ★ | ★ | 13-20 |
| Brake Fluid Level Indicator Switch | 2L140 | Mounted on master cylinder | C162 | 151-3 A7 | |
| Brake Pedal Position (BPP) Switch | 13480 | Behind left side of I/P | C252 | 151-10 F4 | |
| Brake Pressure Switch | ★ | Left rear corner of engine compartment | C151 | 151-3 A6 | |
| Brake Pressure Switch Diode | ★ | In power distribution box | ★ | ★ | |
| Brake Pressure Switch Diode | ★ | In power distribution box | ★ | ★ | |
| Brake Pressure Switch Diode | ★ | In power distribution box | ★ | ★ | |

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| <u>Component</u> | <u>Base Part No.</u> | <u>Location</u> | <u>Component Connector</u> | <u>Page Zone</u> | <u>Connector Page</u> |
|---|----------------------|---|----------------------------|------------------|-----------------------|
| Camshaft Position (CMP) | | | | | |
| Sensor | 6B288 | Front of engine | C100 | 151-2 F7 | |
| Canister Vent Solenoid | ★ | Rear of body, near fuel tank | C413 | 151-15 A10 | |
| CD Changer | 186830 | Left rear of cab | C266 | 151-14 F3 | 130-8 |
| Center High Mount Stop Lamp | ★ | Rear top center of cab | C911 | 151-15 A5 | |
| Central Timer Module (CTM) | 18578 | Behind center of I/P | C239, C267 .. | 151-11A3 | 59-5, 6 |
| Central Timer Module (CTM) | | | | | |
| Diagnostic Connector | ★ | Behind center of I/P | C205 | ★ | |
| Cigar Lighter | 15055 | Behind center of I/P | C226, C227 .. | 151-11 C10 | |
| Clockspring Assembly | ★ | Base of steering column | C233, C234 .. | 151-10 A3 | 31-3 |
| Clutch Pedal Position (CPP) | | | | | |
| Switch | 11A152 | On clutch pedal arm | C231 | 151-12 F6 | 20-4 |
| Clutch Pedal Position (CPP) | | | | | |
| Switch Jumper | 14B155 | Behind left side of I/P | C231 | 151-12 F6 | 20-4 |
| Crankshaft Position (CKP) | | | | | |
| Sensor | 9A825 | Lower front of engine | C102 | 151-3F6 | |
| Cylinder Head Temperature (CHT) Sensor | ★ | Top front of engine | C179 | 151-5 F8 | |
| Data Link Connector (DLC) | ★ | Behind center of I/P | C228 | 151-11 F5 | 14-2 |
| Daytime Running Lamps (DRL) Module | 15A272 | Left front of engine compartment | C142 | 151-2 D10 | 97-3 |
| Differential Pressure Feedback EGR (DPFE) Sensor | ★ | Right side of engine | C122 | 151-1 F2 | |
| Differential Speed Sensor (DSS) .. | 6C315 | On rear axle | C414 | 151-15 A8 | |
| Differential Speed Sensor (DSS) Data Link Connector (DLC) | 14A624 | Left side of I/P panel | C163 | 151-12 F3 | |
| Digital Transmission Range (DTR) Sensor | 7A247 | Left side of automatic transmission | C182 | 151-8 C6 | 29-4 |
| Dome Lamp Assembly | 13776 | Center of cab, in roof panel | C306, C307 .. | 151-15 A4 | |
| Driver's Air Bag | ★ | Center of steering wheel hub | C272 | ★ | |
| Driver's Unlock Relay | ★ | In lock relays | ★ | 151-15 A2 | 13-20 |
| E4OD Transmission | ★ | Center of vehicle, behind engine | C193 | 151-8 D9 | |
| EGR Vacuum Regulator (EVR) | | | | | |
| Solenoid | 9F483 | Left side of engine | C121 | 151-1 E1 | |
| Engine Compartment Lamp | 15702 | Attached to underside of hood | C161 | 151-3 A9 | |
| Coolant Temperature | 10884 | Left front corner of engine | C105 | 151-1 F7 | |
| Coolant Temperature | 12A648 | Front of engine | C104 | 151-1 F6 | |
| Coolant Temperature | ★ | On top of engine | C155 | 151-16 A2 | |

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152-3 LOCATION INDEX

1998 F-150/250

| <u>Component</u> | <u>Base Part No.</u> | <u>Location</u> | <u>Component Connector</u> | <u>Page Zone</u> | <u>Connector Page</u> |
|---|----------------------|-------------------------------------|----------------------------|------------------|-----------------------|
| Engine Fuse Module | ★ | Near power distribution box | ★ | 151-3 A10 | |
| Engine Oil Pressure Switch | 6600 | Left front of engine | C101 | 151-2 F8 | |
| Flasher Relay | 13350 | In blower/flasher relay block | ★ | ★ | 13-20 |
| Fog Lamp Relay | ★ | In power distribution box | C175 | 151-3 C10 | 13-21 |
| Forward In-Bed Fuel Tank Valve | ★ | At fuel tank | C425 | 151-17 C1 | |
| Fuel Injector #1 | 9F593 | Top of cylinder #1 | C125 | 151-3 F2 | |
| Fuel Injector #2 | 9F593 | Top of cylinder #2 | C126 | 151-3 F2 | |
| Fuel Injector #3 | 9F593 | Top of cylinder #3 | C127 | 151-3 F2 | |
| Fuel Injector #4 | 9F593 | Top of cylinder #4 | C128 | 151-1 A6 | |
| Fuel Injector #5 | 9F593 | Top of cylinder #5 | C129 | 151-1 A6 | |
| Fuel Injector #6 | 9F593 | Top of cylinder #6 | C130 | 151-1 A6 | |
| Fuel Injector #7 | 9F593 | Top of cylinder #7 | C131 | 151-4 A5 | |
| Fuel Injector #8 | 9F593 | Top of cylinder #8 | C132 | 151-4 A5 | |
| Fuel Pump Assembly | ★ | Center of vehicle, at fuel tank | C415 | 151-14 F5 | |
| Fuel Pump Relay | 14N089 | In power distribution box | C175 | 151-3 C10 | |
| Fuel Rail Cutoff Valve | ★ | Top of engine, on fuel rail | C168 | 151-16 A5 | |
| Fuel Tank Pressure (FTP) Sensor | ★ | Part of fuel pump assembly | C301 | 151-14 F6 | |
| Function Selector Switch (Blend Door Potentiometer) | 18578 | Center of I/P, near radio | C220 | 151-10 F9 | 54-4 |
| Function Selector Switch (Blower Motor Switch) | 18578 | Center of I/P, near radio | C218 | 151-10 F9 | 54-4 |
| Function Selector Switch (Illumination) | ★ | Center of I/P, near radio | C219 | 151-10 F9 | 54-4 |
| Function Selector Switch (Mode Selector Switch) | 18578 | Center of I/P near radio | C217 | 151-10 F9 | 54-4 |
| Generator/Voltage Regulator | 10300 | Right front of engine compartment | C176, C177, C178 | 151-3 A4 | |
| Generic Electronic Module (GEM) | ★ | Behind center of I/P | C239, C240, C241, C267 | 151-11 A3 | 59-5, 6, 7 |
| Glove Compartment Lamp | 15A563 | Right side of I/P, behind glove box | C211 | 151-10 B10 | |
| Headlamp Relay | ★ | In RPO relay block | ★ | 151-10 A7 | 13-20 |
| Heated Oxygen Sensor (HO2S) #11 | 9J433 | On exhaust pipe of engine | C109 | 151-1 D1 | |
| Heated Oxygen Sensor #12 | 9J433 | On exhaust pipe of engine | C184 | 151-8 A5 | |
| Oxygen Sensor | 9J433 | On exhaust pipe of engine | C108 | 151-1 A7 | |
| Oxygen Sensor | 9J433 | On exhaust pipe of engine | C185 | 151-8 B5 | |

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| <u>Component</u> | <u>Base Part No.</u> | <u>Location</u> | <u>Component Connector</u> | <u>Page Zone</u> | <u>Connector Page</u> |
|---|----------------------|----------------------------------|----------------------------|------------------|-----------------------|
| High Pitch Horn | 13A803 | On right radiator support | C136 | 151-2 F3 | |
| Horn Relay | 14N089 | In power distribution box | C175 | 151-3 C10 | |
| Idle Air Control (IAC) Valve | 19A089 | Left side of intake manifold | C110 | 151-3 F9 | |
| Ignition Coil | 12029 | Top of engine | C111 | 151-1 F5 | |
| Ignition Coil on Plug #1 | ★ | Near its fuel injector | C1011 | 151-6 A5 | |
| Ignition Coil on Plug #2 | ★ | Near its fuel injector | C1012 | 151-6 A5 | |
| Ignition Coil on Plug #3 | ★ | Near its fuel injector | C1013 | 151-6 A5 | |
| Ignition Coil on Plug #4 | ★ | Near its fuel injector | C1014 | 151-6 A5 | |
| Ignition Coil on Plug #5 | ★ | Near its fuel injector | C1015 | 151-6 A5 | |
| Ignition Coil on Plug #6 | ★ | Near its fuel injector | C1016 | 151-6 A5 | |
| Ignition Coil on Plug #7 | ★ | Near its fuel injector | C1017 | 151-6 A5 | |
| Ignition Coil on Plug #8 | ★ | Near its fuel injector | C1018 | 151-6 A5 | |
| Ignition Coils 1 and 2 | ★ | Top right side of engine | C116 | 151-4 F5 | |
| Ignition Coils 3 and 4 | ★ | Top left side of engine | C117 | 151-4 F7 | |
| Ignition Cylinder Tamper Switch | 19A438 | Inside steering column | C235 | 151-10 F7 | |
| Ignition Switch | 11572 | Mounted in steering column | C250 | 151-10 F6 | 13-16 |
| Inertia Fuel Shut-off | 9341 | Behind right side of I/P | C204 | 151-12 D10 | |
| Injection Pressure Sensor (IPS) | ★ | On top of engine | C195 | 151-16 B1 | |
| Inline Mini Fuse (20A) | ★ | Near generator/voltage regulator | ★ | ★ | |
| Instrument Cluster | ★ | Left side of I/P | C236, C237, C238 | 151-11 A4 | 62-8, 9 |
| Intake Air Temperature (IAT) Sensor | 9C674 | On intake manifold | C107 | 151-3 D10 | |
| Intake Manifold Communicator Control (IMCC) | ★ | Right side of engine | C118 | 151-6 A8 | |
| Intake Manifold Runner Control (IMRC) | ★ | Left side of engine | C198 | 151-1 A5 | |
| Intake Manifold Runner Position (IMRP) #1 | 9H465 | Left side of engine | C113 | 151-1 A5 | |
| Intake Manifold Runner Position (IMRP) #2 | 9H465 | Rear of engine | C112 | 151-1 A5 | |
| Interior Lamp Relay | ★ | In junction box fuse/relay panel | ★ | 151-10 D1 | 11-4 |
| Junction Box Fuse/Relay Panel | ★ | Under left side of I/P | C242, C243 | 151-10 D1 | 11-4 |
| Knock Sensor (KS) | 12A699 | Right side of engine | C103 | 151-2 F6 | |
| Backup Lamp | 13416 | Left rear corner of vehicle | C406 | 151-14 F7 | |
| Emergency Lamp | ★ | Rear of vehicle | C912 | 151-15 A3 | |
| | ★ | Rear of left door | C501 | 151-14 E1 | |
| | ★ | In left door | C505 | 151-15 C1 | |

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152-5 LOCATION INDEX

1998 F-150/250

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| Left Door Courtesy Lamp | 13776 | In left door interior door panel | C502 | 151-14 C1 | |
| Left Door Lock Motor | 14017 | Bottom rear of left door | C504 | 151-14 E1 | |
| Left Door Speaker | 18808 | Front of left door | C500 | 151-14 B1 | |
| Left Fog Lamp | 15A254 | Left front of vehicle | C144 | 151-2 D10 | |
| Left Front Park/Turn Lamp | 13035 | Left front of vehicle | C145 | 151-2 C10 | |
| Left Front Wheel 4WABS Sensor | 2C204 | Left side of engine compartment | C153 | 151-1 B10 | |
| Left Headlamp | 13006 | Left front corner of vehicle | C143 | 151-3 E10 | |
| Left License Lamp | 13550 | Rear of vehicle | C401 | 151-15 E10 | |
| Left Power Door Lock Switch | ★ | In armrest of left interior door panel | C508 | 151-14 A1 | 110-4, 5 |
| Left Power/Signal Mirror | 17683 | Left side of vehicle, on door | C507 | 151-14 A4 | |
| Left Power Window Motor | 14631 | In left door | C506 | 151-14 B1 | |
| Left Power Window Switch | ★ | In armrest of left interior door panel | C509, C510 | 151-14 A2 | 100-3 |
| Left Primary Crash Sensor | 14B004 | Left front of engine compartment | C141 | 151-3 F7 | |
| Left Rear Air Spring Solenoid | ★ | Left rear of vehicle above axle | C420 | 151-15 F6 | |
| Left Rear Height Sensor | ★ | Left rear of vehicle | C422 | 151-15 F5 | |
| Left Rear Speaker | 18947 | Left rear of cab | C303 | 151-14 F2 | |
| Left Stop/Park/Turn Lamp | ★ | Left rear corner of vehicle | C404 | 151-14 F8 | |
| Left Tail/Side Marker Lamp | ★ | Left rear corner of vehicle | C408 | 151-15 B10 | |
| Lock Relays | ★ | Behind right side of I/P | ★ | 151-15 A2 | 13-20 |
| Low Pitch Horn | 13A803 | On right radiator support | C137 | 151-2 F5 | |
| M5R2 Transmission | ★ | Under center of vehicle | ★ | 151-8 D5 | |
| Main Light Switch | ★ | Lower left side of I/P | C244, C245, C246 | 151-12 C1 | 13-18, 19 |
| Mass Air Flow (MAF) Sensor | 128579 | In air cleaner assembly | C156 | 151-2 A9 | |
| Mega Fuse (Alternator) | ★ | Right rear of engine compartment, upper right cowl panel | ★ | ★ | |
| Mega Fuse (PDB) | ★ | Right rear of engine compartment, upper right cowl panel | ★ | ★ | |
| Midship Fuel Tank Valve | ★ | At mid fuel tank | C426 | 151-17 A5 | |
| Multi-Function Switch | 13K359 | Left side of steering column | C258, C259 | 151-10 F5 | 85-2, 90-4 |
| NGV Fuel Tank Pressure (FTP) Sensor | ★ | At fuel tank | C418 | 151-17 F6 | |
| NGV Module | ★ | Front of engine | C197 | 151-16 C10 | 26-12 |
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| NGV Fuel Tank Pressure (FTP) Sensor | ★ | Left rear of engine compartment | C196 | 151-16 A8 | 26-11 |
| NGV Fuel Tank Pressure (FTP) Sensor | 14A464 | Right rear corner of engine | C173 | 151-1 A2 | |
| NGV Fuel Tank Pressure (FTP) Sensor | ★ | In junction box fuse/relay panel | ★ | 151-10 D1 | 11-4 |
| NGV Fuel Tank Pressure (FTP) Sensor | 103 | Left side of transmission | C187 | 151-8 A3 | |

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| Park Brake Switch | 15852 | Right side of parking brake lever | C254 | 151-15 B1 | |
| Park Lamp Relay | ★ | In RPO relay block | ★ | ★ | 13-20 |
| Passenger Air Bag | 044A74 | Behind right side of I/P | C215 | 151-11 A9 | |
| Passenger Air Bag Delete Connector | ★ | In 14401, near T/O to ashtray illumination | C255 | ★ | |
| Passive De-Activation (PAD) Module | ★ | Behind right side of I/P | C213, C214 | 151-12 C10 | |
| PCM Power Diode | ★ | In power distribution box | C175 | 151-3 C10 | |
| PCM Power Relay | 12A646 | In power distribution box | C175 | 151-3 C10 | |
| Power Distribution Box | ★ | Left side of engine compartment | C175 | 151-3 C10 | |
| Power Distribution Relay Box | ★ | Left side of engine compartment | ★ | 151-3 B10 | 13-21 |
| Power Mirror Switch | ★ | In armrest of left interior door panel | C511 | 151-14 A3 | 124-2 |
| Power Seat Control Switch | ★ | Left side of driver's seat | C311 | 151-13 F8 | 120-2 |
| Power Seat Motor Assembly | ★ | Under driver's seat | C308 | 151-13 F3 | |
| Powertrain Control Module (PCM) | 12A650 | Right side of engine compartment | C174 | 151- 1 B1 | 23-8, 24-8, 25-8, 26-9 |
| Premium Sound Amplifier | 18B849 | Behind center of I/P | C263, C264 | 151-11 F6 | 130-7 |
| RABS Data Link Connector | 14A624 | Behind right side of I/P | C207 | 151-10 D10 | |
| Radio (AM/FM W/CASSETTE) | 19B131 | Behind center of I/P | C224, C225 | 151-10 A6 | 130-5 |
| Radio Noise Capacitor #1 | 14A601 | Top of engine | C115 | 151-3 A5 | |
| Radio Noise Capacitor #2 | 14A601 | Right front of engine | C114 | 151-5 F9 | |
| Radio (Premium Sound) | 19B132 | Behind center of I/P | C261, C262 | 151-12 A7 | 130-6 |
| Rear Air Suspension Compressor Motor and Vent Solenoid | ★ | Right front of engine compartment | C194 | 151-3 E1 | |
| Rear Air Suspension Compressor Relay | 12A581 | Left side of engine compartment | C175 | 151-3 C10 | |
| Rear Air Suspension Data Link Connector | 14401 | Behind right side of I/P | C285 | 151-12 F8 | 41-4 |
| Rear Air Suspension (RAS) Module | ★ | Behind center of I/P | C276, C277 | 151-12 A6 | 41-3 |
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| Rear Anti-Lock Brake System | 2B373 | Left side of engine compartment | C152 | 151-2 B10 | |

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152-7 LOCATION INDEX

1998 F-150/250

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| Red Brake Lamp Warning Relay | 14N089 | In power distribution box | C175 | 151-3 C10 | 13-21 |
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| Right Backup Lamp | 13416 | Right rear corner of vehicle | C407 | 151-14 D10 | |
| Right Cargo Lamp | ★ | Rear top center of cab | C913 | 151-14 A6 | |
| Right Door Ajar Switch | ★ | Rear of right door | C601 | 151-14 A10 | |
| Right Door Anti-Theft Switch | ★ | In right door | C605 | 151-15 A6 | |
| Right Door Courtesy Lamp | 13776 | In right door interior door panel | C602 | 151-14 A9 | |
| Right Door Lock Motor | 14017 | Bottom rear of right door | C604 | 151-14 B10 | |
| Right Door Speaker | 18808 | Front of right door | C600 | 151-14 A6 | |
| Right Fog Lamp | 15A254 | Right front of vehicle | C134 | 151-3 F3 | |
| Right Front Park/Turn Lamp | 13035 | Right front of vehicle | C135 | 151-2 D1 | |
| Right Front Wheel 4WABS Sensor | 2C204 | At right front wheel | C154 | 151-3 B1 | |
| Right Headlamp | 13006 | Right front corner of vehicle | C133 | 151-2 E1 | |
| Right License Lamp | 13550 | Rear of vehicle | C402 | 151-15 C10 | |
| Right Power Door Lock Switch | ★ | In armrest of right interior door panel | C608 | 151-14 A8 | 110-4, 5 |
| Right Power/Signal Mirror | 17683 | Right side of vehicle, on door | C607 | 151-14 A5 | |
| Right Power Window Motor | 14631 | In right door | C606 | 151-14 F4 | |
| Right Power Window Switch | ★ | In armrest of right interior door panel | C609 | 151-14 A7 | 100-4 |
| Right Primary Crash Sensor | 14B004 | Right front of engine compartment | C140 | 151-2 F4 | |
| Right Rear Door Speaker | 18947 | In right rear door | C800 | ★ | |
| Right Rear Height Sensor | ★ | Right rear of vehicle | C423 | 151-15 A9 | |
| Right Rear Air Spring Solenoid | ★ | Right rear of vehicle | C419 | 151-15A7 | |
| Right Rear Speaker | 18947 | Right rear of cab | C302 | 151-14 B10 | |
| Right Stop/Park/Turn Lamp | ★ | Right rear corner of vehicle | C405 | 151-14 C10 | |
| Right Tail/Side Marker Lamp | ★ | Right rear corner of vehicle | C409 | 151-15 C10 | |
| RPO Relay Block | ★ | Behind right side of I/P | ★ | 151-10 A8 | 13-20 |
| Seat Belt Warning Switch | 14B177 | In driver's seat belt buckle | C304 | 151-13 A2 | |
| Shift Lock Actuator | 3E723 | In steering column | C249 | 151-12 F4 | |
| Shift On The Fly Relay | ★ | In RPO relay block | ★ | 151-10 A7 | 13-20 |
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| Speed Control Interrupt Relay | ★ | In RPO relay block | ★ | 151-10 A7 | 13-2 |
| Speed Control Relay | ★ | Lower right side of engine | ★ | 151-2 B1 | |
| Speed Control Relay | 450 | Right rear of engine compartment | C166, C167 | 151-2 A3 | |
| Speed Control Relay | 731 | Attached to throttle body | C123 | 151-1 F4 | |
| Speed Control Relay | | Behind left side of I/P | C232 | 151-12 F5 | |
| Speed Control Relay | | In power distribution box | ★ | 151-3 C10 | 13-21 |



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| Trailer Tow Battery Charge Relay .. | ★ | In power distribution box | C175 | 151-3 C10 | 13-21 |
| Trailer Tow Connector | ★ | In rear of vehicle | C410 | 151-14 E10 | |
| Trailer Tow Left Turn Relay | ★ | In power distribution box | C175 | 151-3 C10 | 13-21 |
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| Transfer Case Assembly (Electronic) | 7E440 | Mounted on rear of transmission | C201 | 151-9 C5 | 34-5 |
| Transfer Case Assembly (Mechanical) | ★ | Mounted on rear of transmission | C260 | 151-9 A5 | |
| Transfer Case Electric Clutch Relay | ★ | In RPO relay block | ★ | 151-10 A7 | 13-20 |
| Transfer Case Shift Relay Module .. | ★ | Behind center of I/P | C221 | 151-12 A5 | 34-5 |
| Transmission Control Switch (TCS) | 7G550 | End of transmission selector level | C251 | 151-12 A4 | ★ |
| Vapor Management Valve (VMV) .. | ★ | Left rear corner of engine compartment | C164 | 151-1 A8 | ★ |
| Vehicle Speed Sensor (VSS) | 9E731 | Left rear of transmission | C186 | 151-8 C5 | ★ |
| Washer Pump Assembly | 17664 | In washer reservoir | C138 | 151-2 C1 | ★ |
| Washer Pump Relay | ★ | In power distribution box | C175 | 151-3 C10 | |
| Windshield Wiper Motor | 17504 | Behind center of cowl panel | C165 | 151-2 A8 | 81-3 |
| Wiper Hi/Lo Relay | ★ | In power distribution box | C175 | 151-3 C10 | ★ |
| Wiper Run/Park Relay | ★ | In power distribution box | C175 | 151-3 C10 | ★ |

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|-------------------------|---------------------------------------|------------------|-----------------------|--------------|-----------------|
| C100 | Front of engine | 151-2 F7 | ★ | BK | 2 |
| C101 | Left front of engine | 151-2 F8 | ★ | BK | 1 |
| C102 | Lower front of engine | 151-3 F6 | ★ | BK | 2 |
| C103 | Right side of engine | 151-2 F6 | ★ | ★ | 4 |
| C104 | Front of engine | 151-1 F6 | ★ | GY | 2 |
| C105 | Left front corner of engine | 151-1 F7 | ★ | BK | 2 |
| | Left side of engine compartment | 151-1 F8 | ★ | BK | 2 |
| | intake manifold | 151-3 D10 | ★ | BK | 2 |
| | exhaust pipe of engine | 151-1 A7 | ★ | BL | 4 |
| | exhaust pipe of engine | 151-1 D1 | ★ | BL | 4 |
| | Right side of intake manifold | 151-3 F9 | ★ | BK | 2 |

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| C111 | Top of engine | 151-1 F5 | ★ | BK | 4 |
| C112 | Rear of engine | 151-1 A5 | ★ | BK | 3 |
| C113 | Left side of engine | 151-1 A5 | ★ | BK | 3 |
| C114 | Left front of engine compartment | 151-5 F9 | ★ | GY | 1 |
| C115 | Top of engine | 151-3 A5 | ★ | GY | 1 |
| C116 | Right front of engine compartment | 151-4 F5 | ★ | BK | 3 |
| C117 | Left front of engine compartment | 151-4 F7 | ★ | BK | 3 |
| C118 | Right side of engine | 151-6 A8 | ★ | BK | 2 |
| C119 | Right rear of engine compartment | 151-2 A7 | 150-2 | BK | 8 |
| C120 | Right rear of engine compartment | 151-1 C1 | 150-1 | BK | 42 |
| C121 | Left side of engine | 151-1 E1 | ★ | BK | 2 |
| C122 | Right side of engine | 151-1 F2 | ★ | GY | 3 |
| C123 | Attached to throttle body | 151-1 F4 | ★ | BK | 3 |
| C124 | Top front of engine | 151-C10 | ★ | BK | 4 |
| C125 | Top of cylinder #1 | 151-3 F2 | ★ | GY | 2 |
| C126 | Top of cylinder #2 | 151-3 F2 | ★ | GY | 2 |
| C127 | Top of cylinder #3 | 151-3 F2 | ★ | GY | 2 |
| C128 | Top of cylinder #4 | 151-1 A6 | ★ | GY | 2 |
| C129 | Top of cylinder #5 | 151-1 A6 | ★ | GY | 2 |
| C130 | Top of cylinder #6 | 151-1 A6 | ★ | GY | 2 |
| C131 | Top of cylinder #7 | 151-4 A5 | ★ | GY | 2 |
| C132 | Top of cylinder #8 | 151-4 A5 | ★ | GY | 2 |
| C133 | Right front corner of vehicle | 151-2 E1 | ★ | BK | 3 |
| C134 | Right front corner of vehicle | 151-3 F3 | ★ | BL | 2 |
| C135 | Right front corner of vehicle | 151-2 D1 | ★ | BK | 3 |
| C136 | Left front of radiator support | 151-2 F3 | ★ | BK | 1 |
| C137 | Left front of radiator support | 151-2 F5 | ★ | BK | 1 |
| C138 | In washer reservoir | 151-2 C1 | ★ | BK | 2 |
| C139 | Right rear corner of engine compartment | 151-2 A5 | ★ | ★ | 4 |
| C140 | Right front corner of engine compartment | 151-2 F4 | ★ | W | 4 |
| C141 | Left front corner of engine compartment | 151-2 F9 | ★ | W | 4 |
| C142 | Left front corner of engine compartment | 151-2 E10 | 97-3 | BK | 8 |
| C143 | Left front corner of vehicle | 151-3 E10 | ★ | BK | 3 |
| C144 | Left front corner of vehicle | 151-2 D10 | ★ | BL | 2 |
| C145 | Left front corner of vehicle | 151-2 C10 | ★ | BK | 3 |
| C146 | Left front corner of engine compartment | 151-1 F9 | 42-6 | BK | 24 |
| C147 | Right rear corner of engine compartment | 151-1 F9 | 42-6 | BK | 2 |
| C148 | Left side of engine compartment | 151-1 D10 | 150-2 | BK | 16 |
| C149 | Right side of engine compartment | 151-1 C10 | ★ | BK | 4 |
| C150 | Left side of engine compartment | 151-1 C10 | ★ | GY | 16 |

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LOCATION INDEX 152-10

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| C151 | Left rear corner of engine compartment | 151-3 A6 | ★ | BK | 2 |
| C152 | Left side of engine compartment | 151-2 B10 | ★ | BK | 4 |
| C153 | Left side of engine compartment | 151-1 B10 | ★ | BK | 2 |
| C154 | At right front wheel | 151-3 B1 | ★ | BK | 2 |
| C155 | On top of engine | 151-16 A2 | ★ | ★ | ★ |
| C156 | In air cleaner assembly | 151-2 A9 | ★ | BK | 4 |
| C157 | Left side of engine compartment | 151-3 B10 | 31-3 | BK | 10 |
| C158 | Left rear of engine compartment | 151-1 A10 | 150-3 | BK | 40 |
| C159 | Left rear of engine compartment | 151-1 A10 | 150-4 | BR | 40 |
| C160 | Left rear of engine compartment | 151-1 A10 | 150-5 | GY | 40 |
| C161 | Attached to underside of hood | 151-3 A9 | ★ | GY | 2 |
| C162 | Mounted on master cylinder | 151-3 A7 | ★ | BK | 3 |
| C163 | Behind left side of I/P | 151-12 F3 | 42-2 | BK | 3 |
| C164 | Left rear corner of engine compartment | 151-1 A8 | ★ | BK | 2 |
| C165 | Behind center of cowl panel | 151-2 A8 | 81-3 | ★ | 5 |
| C166 | Right rear of engine compartment | 151-2 A3 | ★ | ★ | 1 |
| C167 | Right rear of engine compartment | 151-2 A3 | ★ | ★ | 1 |
| C168 | Top of engine, on fuel rail | 151-16 A5 | ★ | ★ | ★ |
| C169 | Right rear of engine compartment | 151-1 A3 | ★ | GY | 4 |
| C170 | Right side of engine compartment | 151-3 D1 | ★ | BK | 4 |
| C171 | Right side of engine compartment | 151-2 A2 | ★ | BK | 4 |
| C172 | Right rear of engine compartment | 151-2 A6 | 150-6 | GY | 38 |
| C173 | Right side of engine compartment | 151-1 A2 | ★ | BK | 2 |
| C174 | Right side of engine compartment | 151-1 B1 | ★ | GY | 104 |
| C175 | Left side of engine compartment | 151-3 C10 | ★ | ★ | 1 |
| C176 | Right front of engine compartment | 151-3 A4 | ★ | BK | 3 |
| C177 | Right front of engine compartment | 151-3 A4 | ★ | GY | 1 |
| C178 | Right front of engine compartment | 151-3 A4 | ★ | BK | 1 |
| C179 | Top front of engine | 151-5 F8 | ★ | ★ | 2 |
| C180 | Right side of engine compartment | 151-3 A1 | ★ | BK | 2 |
| C181 | Right side of engine compartment | 151-3 A2 | ★ | BK | 2 |
| C182 | Left side of transmission | 151-8 C6 | 29-4 | BK | 8 |
| C183 | Left side of transmission | 151-8 C4 | 29-4 | BK | 10 |
| C184 | On exhaust pipe of engine | 151-8 A5 | ★ | BL | 4 |
| C185 | On exhaust pipe of engine | 151-8 A8 | ★ | BL | 4 |
| C186 | Left side of transmission | 151-8 C5 | ★ | BK | 2 |
| C187 | Left side of transmission | 151-8 A3 | ★ | BK | 2 |
| C188 | Left side of transmission | 151-8 F4 | ★ | ★ | 2 |
| C189 | Left side of transmission | 151-9 F5 | ★ | BK | 2 |
| C190 | Right side of engine compartment | 151-15 A1 | 53-4 | BK | 2 |
| C191 | Blower motor | 151-15 E1 | 53-4 | BK | 4 |

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1998 F-150/250

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| C193 | Right side of transmission | 151-8 D9 | ★ | ★ | ★ |
| C194 | Right side of engine compartment | 151-3 E1 | ★ | ★ | ★ |
| C195 | On top of engine | 151-16 B1 | ★ | ★ | ★ |
| C196 | Center front of engine compartment | 151-16 A8 | 26-11 | ★ | 12 |
| C197 | Front of engine | 151-16 C10 | 26-12 | ★ | 60 |
| C198 | Top front of engine | 151-1 A4 | ★ | BK | 2 |
| C200 | Behind left side of I/P | 151-11 F4 | 150-7 | BK | 16 |
| C201 | On transfer case assembly | 151-9 C5 | 34-5 | BK | 16 |
| C202 | Behind right side of I/P | 151-10 D10 | ★ | GY | 2 |
| C203 | Behind right side of I/P | 151-11 F7 | 150-7 | BK | 16 |
| C204 | Behind right side of I/P | 151-12 D10 | ★ | GY | 3 |
| C205 | Behind center of I/P | ★ | ★ | ★ | 2 |
| C206 | Behind right side of I/P | 151-11 F7 | 150-8 | GY | 16 |
| C207 | Behind right side of I/P | 151-10 D10 | ★ | BK | 1 |
| C208 | Behind right side of I/P | 151-12 C10 | 46-3 | BK | 12 |
| C209 | Behind right side of I/P | 151-12 C10 | 46-3 | GY | 12 |
| C210 | Behind right side of I/P | 151-10 C10 | 150-8 | GY | 6 |
| C211 | Behind glove box | 151-10 B10 | ★ | BK | 2 |
| C212 | Behind ashtray | 151-11 B10 | ★ | GY | 2 |
| C213 | Behind right side of I/P | 151-12 C10 | ★ | GY | 3 |
| C214 | Behind right side of I/P | 151-12 C10 | ★ | BR | 3 |
| C215 | Behind right side of I/P | 151-11 A9 | ★ | BK | 3 |
| C216 | Behind center of I/P | 151-11 A7 | 87-4 | BK | 5 |
| C217 | Behind center of I/P | 151-10 F9 | 53-3 | R | 4 |
| C218 | Behind center of I/P | 151-10 F9 | 53-3 | BK | 4 |
| C219 | Behind center of I/P | 151-10 F9 | 53-3 | BK | 2 |
| C220 | Behind center of I/P | 151-10 F9 | 53-3 | W | 3 |
| C221 | Behind center of I/P | 151-12 A5 | 34-5 | BK | 10 |
| C222 | Behind center of I/P | 151-11 A6 | 42-5 | BK | 14 |
| C223 | Behind center of I/P | 151-11 A8 | ★ | BK | 2 |
| C224 | Behind center of I/P | 151-10 A6 | 130-5 | BK | 8 |
| C225 | Behind center of I/P | 151-10 A6 | 130-5 | BK | 8 |
| C226 | Behind cigar lighter | 151-11 C10 | ★ | BK | 1 |
| C227 | Behind cigar lighter | 151-11 C10 | ★ | ★ | 1 |
| C228 | Behind center of I/P | 151-11 F5 | 14-2 | BK | 16 |
| C229 | Behind center of I/P | 151-10 F8 | 53-4 | W | 8 |
| C230 | Behind center of I/P | 151-12 F7 | 34-6 | GY | 4 |
| C231 | Each pedal arm | 151-12 F6 | 20-4 | BK | 6 |
| C232 | Left side of I/P | 151-12 F5 | 150-9 | GY | 6 |
| C233 | Left side of steering column | 151-10 A3 | ★ | BK | 3 |
| C234 | Right side of steering column | 151-10 A3 | 31-3 | BR | 6 |



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LOCATION INDEX 152-12

1998 F-150/250

| Connector Number | Location | Page Zone | Connector Page | Color | Terminal |
|------------------|--|------------|----------------|-------|----------|
| C235 | Inside steering column | 151-10 F7 | ★ | GY | 2 |
| C236 | Behind left side of I/P | 151-11 A4 | 62-8 | BK | 12 |
| C237 | Behind left side of I/P | 151-11 A4 | 62-8 | W | 16 |
| C238 | Behind left side of I/P | 151-11 A4 | 62-9 | W | 12 |
| C239 | Behind left side of I/P | 151-11 A3 | 59-5 | GY | 26 |
| C240 | Behind left side of I/P | 151-11 A3 | 59-6 | GY | 16 |
| C241 | Behind left side of I/P | 151-11 A3 | 59-7 | GY | 22 |
| C242 | Under left side of I/P | 151-10 D1 | 13-22 | GY | 34 |
| C243 | Under left side of I/P | 151-10 D1 | 13-21 | BK | 34 |
| C244 | Behind left side of I/P | 151-12 C1 | 13-16 | GY | 4 |
| C245 | Behind left side of I/P | 151-12 C1 | 13-17 | GY | 6 |
| C246 | Behind left side of I/P | 151-12 C1 | 13-17 | BK | 6 |
| C247 | Behind left side of I/P | 151-11 F3 | 150-9 | GY | 16 |
| C248 | Behind left side of I/P | 151-11 F3 | 150-10 | BK | 8 |
| C249 | In steering column | 151-12 F4 | ★ | BK | 3 |
| C250 | In steering column | 151-10 F6 | 13-16 | BK | 15 |
| C251 | End of transmission selector lever | 151-12 A4 | ★ | BK | 3 |
| C252 | Behind left side of I/P | 151-10 F4 | ★ | BK | 2 |
| C253 | Behind left side of I/P | 151-10 F5 | 150-10 | BK | 16 |
| C254 | Right side of parking brake lever | 151-15 B1 | ★ | BK | 1 |
| C255 | In 14401, near T/O to ashtray illumination | ★ | ★ | ★ | ★ |
| C256 | Behind left side of I/P | 151-15 A1 | 117-4 | BK | 26 |
| C257 | Behind left side of I/P | 151-15 A1 | 117-4 | BK | 22 |
| C258 | Left side of steering column | ★ | 90-4 | GY | 10 |
| C259 | Left side of steering column | ★ | 81-3 | GY | 7 |
| C260 | Left side of transfer case | 151-9 A5 | ★ | BK | 4 |
| C261 | Behind center of I/P | 151-12 A7 | ★ | BK | 16 |
| C262 | Behind center of I/P | 151-12 A7 | 130-6 | BK | 8 |
| C263 | Behind center of I/P | 151-11 F6 | 130-7 | BK | 8 |
| C264 | Behind center of I/P | 151-11 F6 | 130-7 | BK | 14 |
| C265 | Behind right side of I/P | 151-10 D10 | 150-11 | BK | 10 |
| C266 | Left rear of cab | 151-14 F3 | 130-8 | BK | 12 |
| C267 | In junction box fuse/relay panel | 151-11 A3 | 59-6 | ★ | 18 |
| C269 | Base of steering column | ★ | ★ | ★ | ★ |
| C270 | In 14401, near radio | ★ | ★ | ★ | ★ |
| | Behind center of I/P | ★ | ★ | ★ | ★ |
| | Center of steering wheel hub | ★ | ★ | ★ | 2 |
| | Behind center of I/P | 151-10 A5 | ★ | ★ | 10 |
| | Behind center of I/P | 151-12 A6 | ★ | ★ | 13 |
| | Behind center of I/P | 151-12 A6 | ★ | ★ | 13 |

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152-13 LOCATION INDEX

1998 F-150/250

| Connector Number | Location | Page Zone | Connector Page | Color | Terminal |
|------------------|---------------------------------------|------------|----------------|-------|----------|
| C278 | Right side of I/P | 151-12 D10 | ★ | ★ | ★ |
| C284 | Behind right side of I/P | 151-12 F8 | ★ | ★ | ★ |
| C285 | Behind right side of I/P | 151-12 F8 | ★ | ★ | ★ |
| C300 | Left side rail, center of vehicle | 151-14 F4 | ★ | GY | 4 |
| C301 | On fuel tank pressure (FTP) sensor | 151-14 F6 | ★ | BK | 3 |
| C302 | Right rear of cab | 151-14 B10 | ★ | GY | 2 |
| C303 | Left rear of cab | 151-14 F2 | ★ | GY | 2 |
| C304 | Under driver's seat | 151-13 A7 | ★ | GY | 2 |
| C305 | Under driver's seat | 151-13 A5 | ★ | GY | 2 |
| C306 | Center of cab, in roof panel | 151-15 A5 | ★ | GY | 1 |
| C307 | Center of cab, in roof panel | 151-15 A5 | ★ | GY | 1 |
| C308 | Under driver's seat | 151-13 F3 | ★ | GY | 6 |
| C311 | Left side of driver's seat | 151-13 F8 | 120-2 | BK | 8 |
| C312 | Right lower rear of cab | 151-14 C10 | ★ | GY | 2 |
| C316 | Center of vehicle, near fuel tank | ★ | ★ | ★ | 8 |
| C401 | Rear center of vehicle | 151-15 E10 | ★ | W | 2 |
| C402 | Rear center of vehicle | 151-15 C10 | ★ | W | 2 |
| C403 | Left rear of vehicle | 151-15 F10 | 150-11 | BK | 8 |
| C404 | Left rear corner of vehicle | 151-14 F8 | ★ | T | 3 |
| C405 | Right rear corner of vehicle | 151-14 C10 | ★ | T | 3 |
| C406 | Left rear corner of vehicle | 151-14 F7 | ★ | GN | 3 |
| C407 | Right rear corner of vehicle | 151-14 D10 | ★ | GN | 3 |
| C408 (Flareside) | Left rear corner of vehicle | 151-15 B10 | ★ | ★ | 3 |
| C409 (Flareside) | Right rear corner of vehicle | 151-15 C10 | ★ | ★ | 3 |
| C410 | Rear of vehicle, under bumper | 151-14 E10 | ★ | BK | 7, 4 |
| C411 | Left rear of vehicle | 151-15 F7 | ★ | GY | 4 |
| C412 | Left rear of vehicle | 151-15 F6 | ★ | BK | 12 |
| C413 | Rear of body, near fuel tank | 151-15 A10 | ★ | BK | 2 |
| C414 | On rear axle | 151-15 A8 | ★ | BK | 2 |
| C415 | Center of vehicle, near fuel tank | 151-14 F5 | ★ | BK | 4 |
| C416 | In 13A625, near C913 right cargo lamp | 151-15 A6 | ★ | ★ | 2 |
| C417 | At fuel tank | 151-17 D10 | ★ | ★ | 2 |
| | At fuel tank | 151-14 F6 | ★ | ★ | 4 |
| | Right side of axle | 151-15 A7 | ★ | ★ | ★ |
| | Left side of axle | 151-15 F5 | ★ | ★ | ★ |
| | Left side of axle | 151-15 F6 | ★ | ★ | ★ |

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LOCATION INDEX 152-14

1998 F-150/250

| Connector Number | Location | Page Zone | Connector Page | Color | Terminal |
|------------------|-----------------------------------|------------|----------------|-------|----------|
| C423 | Rear right side of axle | 151-15 A9 | ★ | ★ | ★ |
| C424 | At fuel tank | 151-17 A7 | ★ | ★ | 2 |
| C425 | At fuel tank | 151-17 C1 | ★ | ★ | 2 |
| C426 | At fuel tank | 151-17 A5 | ★ | ★ | 2 |
| C500 | Front of left door | 151-14 B1 | ★ | GY | 2 |
| C501 | Rear of left door | 151-14 E1 | ★ | BK | 2 |
| C502 | In left door interior door panel | 151-14 C1 | ★ | N | 2 |
| C504 | Bottom rear of left door | 151-14 E1 | ★ | ★ | 2 |
| C505 | top rear of left door | 151-15C1 | ★ | GY | 4 |
| C506 | In left door | 151-14 B1 | ★ | ★ | 2 |
| C507 | In left door | 151-14 A4 | ★ | GY | 3 |
| C508 | Behind left interior door panel | 151-14 A1 | 110-4,5 | BK | 7 |
| C509 | Behind left interior door panel | 151-14 A2 | 100-3 | BK | 4 |
| C510 | Behind left interior door panel | 151-14 A2 | 100-3 | BK | 5 |
| C511 | Behind left interior door panel | 151-14 A3 | 124-2 | N | 8 |
| C600 | Front of right door | 151-14 A6 | ★ | GY | 2 |
| C601 | Rear of right door | 151-14 A10 | ★ | BK | 2 |
| C602 | In right door interior door panel | 151-14 A9 | ★ | N | 2 |
| C604 | Bottom rear of right door | 151-14 B10 | ★ | ★ | 2 |
| C605 | Top rear of right door | 151-15 A6 | ★ | GY | 4 |
| C606 | In right door | 151-14 F4 | ★ | ★ | 2 |
| C607 | In right door | 151-14 A5 | ★ | GY | 3 |
| C608 | Behind right interior door panel | 151-14 A8 | 110-4,5 | BK | 7 |
| C609 | Behind right interior door panel | 151-14 A7 | 100-4 | BK | 7 |
| C800 | On right rear door speaker | ★ | ★ | GY | 2 |
| C911 | Center of cab, in roof panel | 151-15 A5 | ★ | ★ | ★ |
| C912 | Center of cab, in roof panel | 151-15 A3 | ★ | ★ | ★ |
| C913 | Center of cab, in roof panel | 151-14 A6 | ★ | ★ | ★ |
| C1011 | Top of cylinder #1 | 151-6 A5 | ★ | BK | 2 |
| C1012 | Top of cylinder #2 | 151-6 A5 | ★ | BK | 2 |
| C1013 | Top of cylinder #3 | 151-6 A5 | ★ | BK | 2 |
| C1014 | Top of cylinder #4 | 151-6 A5 | ★ | BK | 2 |
| C1015 | Top of cylinder #5 | 151-6 A5 | ★ | BK | 2 |
| C1016 | Top of cylinder #6 | 151-6 A5 | ★ | BK | 2 |
| C1017 | Top of cylinder #7 | 151-6 A5 | ★ | BK | 2 |
| | Top of cylinder #8 | 151-6 A5 | ★ | BK | 2 |

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152-15 LOCATION INDEX

1998 F-150/250

| <u>Ground</u> | <u>Location</u> | <u>Page Zone</u> |
|---------------|--|------------------|
| G100 | Lower right rear of engine, on starter motor mounting bolt | ★ |
| G101 | Rear of engine compartment, right side of cowl panel | 151-2 A4 |
| G102 | Rear of right fender apron | 151-2 B1 |
| G103 | Right front radiator support | 151-2 D1 |
| G104 | Left front radiator support | 151-1 E10 |
| G200 | Lower right cowl panel inner | 151-11 F8 |
| G201 | Lower left cowl panel inner | 151-10 F3 |
| G202 | Upper left cowl panel inner | 151-11 F2 |
| G400 | Left rear of frame | 151-15 F8 |

★ Not Available

| <u>Splice</u> | <u>Location</u> |
|---------------|--|
| S100 | Engine control sensor harness, in T/O to powertrain control module |
| S101 | Engine control sensor harness, in T/O to powertrain control module |
| S102 | Engine control sensor harness, near T/O to starter motor relay |
| S103 | Fuel charge harness, near T/O to C120 |
| S104 | Engine control sensor harness, 195mm from T/O to right headlamp |
| S105 | Engine control sensor harness, in T/O to power distribution relay box |
| S106 | Engine control sensor harness, near T/O to G104 |
| S107 | Engine control sensor harness, near T/O to starter motor relay |
| S108 | Engine control sensor harness, in T/O to power distribution relay box |
| S109 | Engine control sensor harness, near T/O to C150M |
| S110 | Engine control sensor harness, in T/O to engine fuse module |
| S111 | Engine control sensor harness, in T/O to engine fuse module |
| S112 | Engine control sensor harness, near T/O to power distribution box |
| S113 | Engine control sensor harness, near T/O to C159 |
| S114 | Engine control sensor harness, near T/O to left headlamp |
| S115 | Engine control sensor harness, near T/O to C148 |
| S116 | Engine control sensor harness, near T/O to C160 |
| S117 | Fuel charge harness, near T/O to idle air control valve |
| S118 | Engine control sensor harness, near T/O to C120 |
| S119 | Engine control sensor harness, near T/O to C120 |
| S120 | Engine control sensor harness, near T/O to radio noise capacitor C115 |
| S121 | Engine control sensor harness, near T/O to radio noise capacitor C114 |
| S122 | Engine control sensor harness, in T/O to C160 |
| S123 | Engine control sensor harness, near T/O to 4 wheel anti-lock brake system (4WABS) module |
| S124 | Engine control sensor harness, near T/O to right headlamp |

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| <u>Splice</u> | <u>Location</u> |
|---------------|--|
| S123 | Engine control sensor harness, near T/O to starter motor relay |
| S124 | Engine control sensor harness, near T/O to 4 wheel anti-lock brake system (4WABS) module |
| S125 | Heater blower motor feed harness, in T/O to blower motor resistor |
| S126 | Engine control sensor harness, near T/O to mega fuse (PDB) |
| S127 | Engine control sensor harness, near T/O to vapor management valve |
| S128 | Engine control sensor harness, near T/O to powertrain control module (PCM) |
| S129 (4.2L) | Fuel charge harness, between takeout for C126 and C123 |
| S129 (4.6L) | Fuel charge harness, near T/O to fuel injector #3 |
| S129 (5.4L) | Fuel charge harness, near T/O to coil on plug #3 |
| S130 | Engine control sensor harness, in T/O to C120 |
| S131 (4.2L) | Fuel charge harness, near T/O to intake manifold runner control monitor #1 |
| S131 (4.6L) | Fuel charge harness, near T/O to fuel injector #8 |
| S131 (5.4L) | Fuel charge harness, near T/O to coil on plug #7 |
| S132 | Fuel charge harness, in T/O to intake manifold runner control (IMRC) monitor #2 |
| S133 | Fuel charge harness, in T/O to intake manifold runner control (IMRC) monitor #1 |
| S134 | Engine control sensor harness, near T/O to G101 |
| S135 (4.2L) | Fuel charge harness, near T/O to fuel injector #4 |
| S135 (4.6L) | Fuel charge harness, near T/O to knock sensor |
| S135 (5.4L) | Fuel charge harness, near T/O to radio noise capacitor |
| S136 (4.2L) | Fuel charge harness, near T/O to fuel injector #2 |
| S136 (4.6L) | Fuel charge harness, near T/O to C131 fuel injector #7 |
| S136 (5.4L) | Fuel charge harness, near T/O to knock sensor |
| S137 | Engine control sensor harness, near T/O to starter motor relay |
| S138 | Engine control sensor harness, in T/O to C139 |
| S139 | Engine control sensor harness, in T/O to C158 |
| S140 | Backup lamp switch to rear lamp feed harness, in T/O to C172 |
| S141 | Backup lamp switch to rear lamp feed harness, in T/O to C172 |
| S142 | Engine control sensor harness, near T/O to mega fuse (PDB) |
| S143 | Engine control sensor harness, near T/O to vapor management valve |
| S144 | Engine control sensor harness, near T/O to power distribution box |
| S145 | Engine control sensor harness, in T/O to horns |
| S146 | Engine control sensor harness, near T/O to C159 |
| | Engine control sensor harness, in T/O to left fog lamp |
| | Engine control sensor harness, near T/O to C149M |
| | Engine control sensor harness, in T/O to C149M |
| | Engine control sensor harness, in T/O to C160 |
| | Engine control sensor harness, in T/O to wiper motor |
| | Engine control sensor harness, near T/O to C151 |

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152-17 LOCATION INDEX

1998 F-150/250

Splice

Location

| | |
|------|--|
| S153 | Fuel charge harness, near T/O to C120 |
| S156 | Engine control sensor harness, near T/O to vapor management valve |
| S157 | Engine control sensor harness, near T/O to vapor management valve |
| S158 | Engine control sensor harness, near T/O to C150 |
| S159 | Engine control sensor harness, in T/O to C165 windshield wiper motor |
| S161 | Fuel charge harness, near T/O to fuel injector #3 |
| S162 | Fuel charge harness, near T/O to fuel injector #7 |
| S199 | Fuel charge harness, near T/O to C120 |
| S200 | Main harness, near T/O to C210 |
| S201 | Main harness, near T/O to transfer case shift relay |
| S202 | Main harness, in T/O to blower/flasher relay block |
| S203 | Main harness, near T/O to passenger's air bag |
| S204 | Main harness, near T/O to instrument cluster |
| S205 | Main harness, near T/O to radio |
| S206 | Radio speaker jumper harness, on T/O to C261 |
| S207 | Main harness, near T/O to junction box fuse/relay panel |
| S208 | Main harness, near T/O to G202 |
| S209 | Radio speaker jumper harness, in T/O to premium sound amplifier |
| S210 | Radio speaker jumper harness, near T/O to radio |
| S211 | Main harness, in T/O to main light switch |
| S212 | Main harness, near T/O to brake pedal position (BPP) switch |
| S213 | Main harness, in T/O to transfer case shift relays |
| S214 | Main harness, near T/O to brake pedal position (BPP) switch |
| S215 | Main harness, in T/O to ignition switch |
| S216 | Body main harness, near T/O to C254 park brake switch |
| S217 | Main harness, in T/O to rear anti-lock brake system (RABS) module |
| S219 | Main harness, near T/O to transfer case shift relay module |
| S220 | Body main harness, near T/O to park brake switch |
| S221 | Main harness, near T/O to C210 |
| S222 | Main harness, near T/O to instrument cluster |
| S223 | Main harness, near T/O to instrument cluster |
| S224 | Main harness, in T/O to main light switch |
| S225 | Main harness, near T/O to instrument cluster |
| S226 | Main harness, in T/O to passenger's air bag |
| S227 | Main harness, in T/O to clutch pedal position (CPP) switch |
| S | Main harness, in T/O to junction box fuse/relay panel |
| S | near T/O to radio |
| S | T/O to clockspring assembly |
| S | near T/O to instrument cluster |
| S | near T/O to instrument cluster |
| S | near T/O to remote anti-theft personality (RAP) module |

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| <u>Splice</u> | <u>Location</u> |
|---------------|---|
| S235 | Body main harness, near T/O to remote anti-theft personality (RAP) module |
| S238 | Main harness, in T/O to C239 generic electronic module (GEM) |
| S239 | Body main harness, near T/O to C206 |
| S240 | Main harness, near T/O to ashtray illumination |
| S242 | Main harness, near T/O to clutch pedal position (CPP) switch |
| S243 | Body main harness, 400 mm from left door grommet |
| S244 | Main harness, near T/O to main light switch |
| S245 | Main harness, in T/O to passenger's air bag |
| S246 | Main harness, near T/O to C253 |
| S247 | Main harness, near T/O to C253 |
| S248 | Body main harness, near T/O to park brake switch |
| S249 | Body main harness, near T/O to remote anti-theft personality (RAP) module |
| S252 | Radio speaker jumper harness, near T/O to C265 |
| S253 | Radio amplifier harness, near T/O to C265 |
| S256 | Body main harness, near T/O to lock relays |
| S265 | Main harness, near T/O to C242 |
| S268 | Main harness, in T/O to C240 generic electronic module (GEM) |
| S278 | Main harness, near T/O to C247 |
| S286 | Main Harness, near T/O to C246 |
| S287 | Main harness, near Connector C163 |
| S288 | Main harness, near Connector C163 |
| S290 | Main harness, near T/O to C236 |
| S291 | Main harness, near T/O to rear anti-lock brake system (RABS) module |
| S293 | Main harness, near T/O to passenger's air bag |
| S294 | Main harness, near T/O to air bag diagnostic monitor |
| S295 | Main harness, near T/O to air suspension connector |
| S296 | Main harness, near T/O to air suspension connector |
| S300 | Seat belt retractor switch right harness, in T/O to dome lamp |
| S301 | Fuel tank sender harness, near T/O to fuel tank solenoid valve #2 |
| S302 | Fuel tank sender harness, near T/O to fuel tank solenoid valve #2 |
| S303 | Fuel tank sender harness, near C316 |
| S304 | Seat belt retractor switch harness, near T/O to right rear speaker |
| S400 | Rear lamp harness, near T/O to fuel pump assembly |

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Body-rear license assembly, in T/O to license lamps
 Connector harness, near T/O to C403
 Body-rear license assembly, in T/O to license lamp
 Harness, near T/O to C404 left stop/park/turn lamp
 ss, near T/O to differential speed sensor (DSS)

152-19 LOCATION INDEX

1998 F-150/250

| <u>Splice</u> | <u>Location</u> |
|---------------|---|
| S407 | Rear lamp harness, near T/O to differential speed sensor (DSS) |
| S409 | Rear lamp harness, near T/O to fuel pump module |
| S410 | Rear lamp harness, near T/O to fuel pump module |
| S411 | Rear lamp harness, in T/O to C911 center cargo/high mount stop lamp |
| S500 | Body main harness, near T/O to left power door lock switch |
| S501 | Body main harness, near T/O to left door lock motor |
| S502 | Body main harness, near T/O to left power window motor |
| S503 | Body main harness, near T/O to left power window motor |
| S504 | Body main harness, near T/O to lock relays |
| S600 | Body main harness, near T/O to right power window switch |
| S601 | Body main harness, near T/O to right power window switch |
| S602 | Body main harness, near T/O to right power window switch |
| S604 | Body main harness, 550 mm from left door grommet |
| S911 | High mount stop lamp harness, near T/O to C416 |



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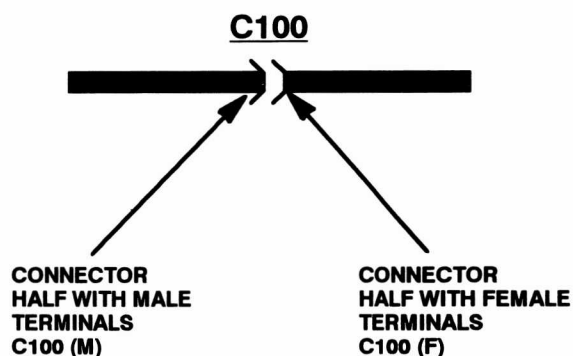
153-1 HARNESS CAUSAL PART NUMBER

1998 F-150/250

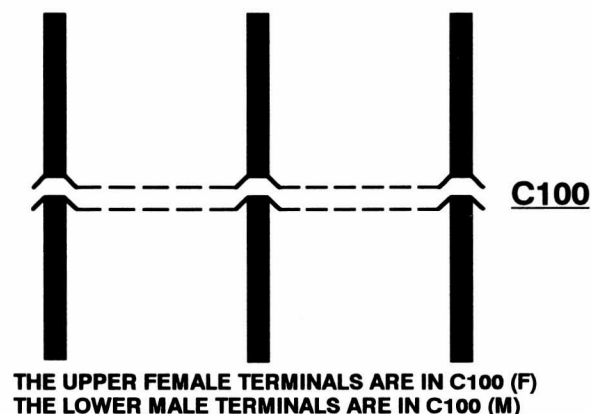
HOW TO IDENTIFY A BASIC HARNESS NUMBER BY USING A "C" NUMBER

Understand these symbols before using the following listing:

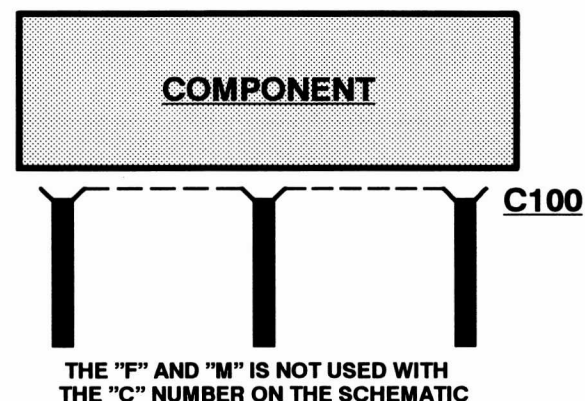
HARNESS TO HARNESS CONNECTION



DASHED LINES INDICATE TERMINALS OF SAME CONNECTOR



COMPONENT CONNECTION



Identify the basic harness part number by:

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Find the connector "C" number in the EVTMs. Then locate the "C" number in the following listing and order.

If a connector (such as a short or a broken wire), then choose a connector located on the same harness that has the problem. Find the following listing and read the base part number of the harness that has the problem.

HARNES CAUSAL PART NUMBER 153-2

1998 F-150/250

| <u>Connector Number</u> | <u>Wire Assembly</u> | <u>Connector Number</u> | <u>Wire Assembly</u> | <u>Connector Number</u> | <u>Wire Assembly</u> | <u>Connector Number</u> | <u>Wire Assembly</u> |
|-------------------------|----------------------|-------------------------|----------------------|-------------------------|----------------------|-------------------------|----------------------|
| C100 (4.2L) | 9D930 | C119 (M) (4.6L) (5.4L) | 12A581 | C140 | 12A581 | C169 (F) | 12A581 |
| C100 (4.6L) (5.4L) | 12B637 | C120 (F) (4.2L) | 9D930 | C141 | 12A581 | C169 (M) | 14305 |
| C101 (4.2L) | 9D930 | C120 (F) (4.6L) (5.4L) | 12B637 | C142 | 12A581 | C170 | 12A581 |
| C101 (4.6L) (5.4L) | 12B637 | C120 (M) (4.2L) (4.6L) | 12A581 | C143 | 12A581 | C171 (F) | 14B110 |
| C102 (4.2L) | 9D930 | C120 (M) (4.6L) (5.4L) | 12A581 | C144 | 12A581 | C171 (M) | 12A581 |
| C102 (4.6L) (5.4L) | 12B637 | C121 (4.2L) | 9D930 | C145 | 12A581 | C172 (F) | 15525 |
| C103 (4.2L) | 9D930 | C121 (4.6L) (5.4L) | 12B637 | C146 | 12A581 | C172 (M) | 12A581 |
| C103 (4.6L) (5.4L) | 12B637 | C122 (4.2L) | 9D930 | C147 | 12A581 | C173 | 12A581 |
| C104 (4.2L) | 9D930 | C122 (4.6L) (5.4L) | 12B637 | C148 (F) | 14405 | C174 | 12A581 |
| C104 (4.6L) (5.4L) | 12B637 | C123 (4.2L) | 9D930 | C148 (M) | 12A581 | C175 | 12A581 |
| C105 (4.2L) | 9D930 | C123 (4.6L) (5.4L) | 12B637 | C149 (F) | 14405 | C176 | 14305 |
| C105 (4.6L) (5.4L) | 12B637 | C124 (F) (4.6L) (5.4L) | 12B637 | C149 (M) | 12A581 | C177 | 14305 |
| C106 (4.2L) | 9D930 | C124 (M) (4.6L) (5.4L) | 14B102 | C150 (F) | 14405 | C178 | 14305 |
| C106 (4.6L) | 12B637 | C125 (4.2L) | 9D930 | C150 (M) | 12A581 | C179 | 14B102 |
| C107 (4.2L) | 9D930 | C125 (4.6L) (5.4L) | 12B637 | C151 | 12A581 | C180 | 14B110 |
| C107 (4.6L) (5.4L) | 12B637 | C126 (4.2L) | 9D930 | C152 | 12A581 | C181 | 14B110 |
| C108 (4.2L) | 9D930 | C126 (4.6L) (5.4L) | 12B637 | C153 | 12A581 | C182 | 15525 |
| C108 (4.6L) (5.4L) | 12B637 | C127 (4.2L) | 9D930 | C154 | 12A581 | C183 | 15525 |
| C109 (4.2L) | 9D930 | C127 (4.6L) (5.4L) | 12B637 | C156 | 12A581 | C184 | 15525 |
| C109 (4.6L) (5.4L) | 12B637 | C128 (4.2L) | 9D930 | C157 | 12A581 | C185 | 15525 |
| C110 (4.2L) | 9D930 | C128 (4.6L) (5.4L) | 12B637 | C158 (F) | 14401 | C186 | 15525 |
| C110 (4.6L) (5.4L) | 12B637 | C129 (4.2L) | 9D930 | C158 (M) | 12A581 | C187 | 15525 |
| C111 (4.2L) | 9D930 | C129 (4.6L) (5.4L) | 12B637 | C159 (F) | 14401 | C188 | 15525 |
| C112 (4.2L) | 9D930 | C130 (4.2L) | 9D930 | C159 (M) | 12A581 | C189 | 15525 |
| C113 (4.2L) | 9D930 | C130 (4.6L) (5.4L) | 12B637 | C160 (F) | 14401 | C190 | 18B574 |
| C114 (4.6L) (5.4L) | 12B637 | C131 (4.6L) (5.4L) | 12B637 | C160 (M) | 12A581 | C191 | 18B574 |
| C115 (4.2L) | 9D930 | C132 (4.6L) (5.4L) | 12B637 | C161 | 12A581 | C192 | 15525 |
| C115 (4.6L) (5.4L) | 12B637 | C133 | 12A581 | C162 | 12A581 | C193 | 15525 |
| C115 (4.6L) (5.4L) | 12B637 | C134 | 12A581 | C163 | 14401 | C194 | 12A581 |
| | | C135 | 12A581 | C164 | 12A581 | C196 | 12A581 |
| | | C136 | 12A581 | C165 | 12A581 | C197 | 12A581 |
| | | C137 | 12A581 | C166 | 14305 | C198 (4.2L) | 9D930 |
| | | C138 | 12A581 | C166 | 12A581 | | |
| | | C139 | 12A581 | C167 | 12A581 | | |

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153-3 HARNESS CAUSAL PART NUMBER

1998 F - 150/250

| <u>Connector Number</u> | <u>Wire Assembly</u> | <u>Connector Number</u> | <u>Wire Assembly</u> | <u>Connector Number</u> | <u>Wire Assembly</u> | <u>Connector Number</u> | <u>Wire Assembly</u> | |
|-------------------------|----------------------|-------------------------|----------------------|-------------------------|----------------------|-------------------------|----------------------|-------|
| C200 (F) | 14401 | C225 (F) | 14401 | C253 (F) | 14401 | C300 (M) | 14405 | |
| C200 (M) | 7A786 | C225 (M) | 19A170 | C253 (M) | 14A320 | C301 | 9F759 | |
| C201 | 7A786 | C226 | 14401 | C254 | 14A005 | C302 (Regular Cab) | 14A504 | |
| C202 (F) | 14401 | C227 | 14401 | C254 | 14631 | C302 (Super Cab) | 14632 | |
| C202 (M) | 14A504 | C228 | 14401 | C255 | 14401 | C303 | 14A504 | |
| C203 (F) | 14401 | C229 | 14401 | C256 | 14A005 | C304 | 14A504 | |
| C203 (M) | 14A504 | C230 | 14401 | C257 | 14A005 | C305 (F) | 14A504 | |
| C204 | 14401 | C231 | 14401 | C258 | 14A320 | C305 (M) | 14B084 | |
| C205 | 14401 | C232 (F) | 14A348 | C259 | 14A320 | C306 | 14A504 | |
| C206 (F) | 14401 | C232 (M) | 14401 | C260 | 15525 | C307 | 14A504 | |
| C206 (M) | 14A005 | C233 | 14401 | C261 | 19A170 | C308 | 14B084 | |
| C206 (M) | 14630 | C234 | 14401 | C262 | 19A170 | C310 | 14B084 | |
| C207 (F) | 14401 | C235 | 14401 | C263 | 19A170 | C311 | 14B084 | |
| C207 (M) | 14401 | C236 | 14401 | C264 | 19A170 | C312 (F) (Super Cab) | 14632 | |
| C208 | 14401 | C237 | 14401 | C265 (F) | 19A170 | C312 (M) | 14A504 | |
| C209 | 14401 | C238 | 14401 | C265 (M) | 19B113 | C316 | 14406 | |
| C210 (F) | 14401 | C239 | 14401 | C266 | 19B113 | C400 (F) | 13412 | |
| C210 (M) | 18B574 | C240 | 14401 | C267 | Junction | C400 (M) | 13A409 | |
| C211 | 14401 | C241 | 14401 | Box Fuse/Relay Panel | | | C401 | 13412 |
| C212 | 14401 | C242 | 14401 | C270 (F) | 14401 | C402 | 13412 | |
| C213 | 14401 | C243 | 14401 | C270 (M) | 15080 | C403 (F) | 13A409 | |
| C214 | 14401 | C244 | 14401 | C271 | 14A005 | C403 (M) | 14405 | |
| C215 | 14401 | C245 | 14401 | C272 (F) | PIA | C404 | 13A409 | |
| C216 | 14401 | C246 | 14401 | C272 (M) | PIA | C405 | 13A409 | |
| C217 | 14401 | C247 (F) | 14401 | C274 | 14401 | C406 | 13A409 | |
| C218 | 14401 | C247 (M) | 14A005 | C276 | 14401 | C407 | 13A409 | |
| C219 | 14401 | C247 (M) | 14631 | C277 | 15080 | C408 (Flareside) | 13A409 | |
| C220 | 14401 | C248 (F) | 14401 | C278 (F) | 12B566 | C409 (Flareside) | 13A409 | |
| C221 | 14401 | C248 (M) | 14A005 | C278 (M) | 14401 | C410 | 13A576 | |
| C222 | 14401 | C249 | 14401 | C284 | 14401 | C411 (F) | 13A576 | |
| C223 | 14401 | C250 | 14401 | C285 | 14401 | C411 (M) | 14405 | |
| C224 | 14401 | C251 | 14401 | C298 | 14401 | C412 (F) | 13A576 | |
| C225 | 14401 | C252 | 14401 | C300 (F) | 9F759 | C412 (M) | 14405 | |

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HARNESS CAUSAL PART NUMBER 153-4

1998 F - 150/250

| <u>Connector Number</u> | <u>Wire Assembly</u> | <u>Connector Number</u> | <u>Wire Assembly</u> | <u>Connector Number</u> | <u>Wire Assembly</u> | <u>Connector Number</u> | <u>Wire Assembly</u> |
|-------------------------|----------------------|-------------------------|----------------------|-------------------------|----------------------|-------------------------|----------------------|
| C413 | 14405 | C500 | 14A005 | C511 | 14A005 | C800 | 14632 |
| C414 | 14406 | C500 | 14631 | C600 | 14A005 | C911 | 13A625 |
| C415 | 14405 | C501 | 14A005 | C600 | 14630 | C912 | 13A625 |
| C416 (F) | 13A625 | C501 | 14631 | C601 | 14A005 | C913 | 13A625 |
| C416 (M) | 14A504 | C502 | 14A005 | C601 | 14630 | C1011 | 12B637 |
| C418 | 14406 | C504 | 14A005 | C602 | 14A005 | C1012 | 12B637 |
| C419 | 14405 | C505 | 14A005 | C604 | 14A005 | C1013 | 12B637 |
| C420 | 14405 | C506 | 14A005 | C605 | 14A005 | C1014 | 12B637 |
| C422 | 14405 | C507 | 14A005 | C606 | 14A005 | C1015 | 12B637 |
| C423 | 14405 | C508 | 14A005 | C607 | 14A005 | C1016 | 12B637 |
| C424 | 14406 | C509 | 14A005 | C608 | 14A005 | C1017 | 12B637 |
| C426 | 14401 | C510 | 14A005 | C609 | 14A005 | C1018 | 12B637 |



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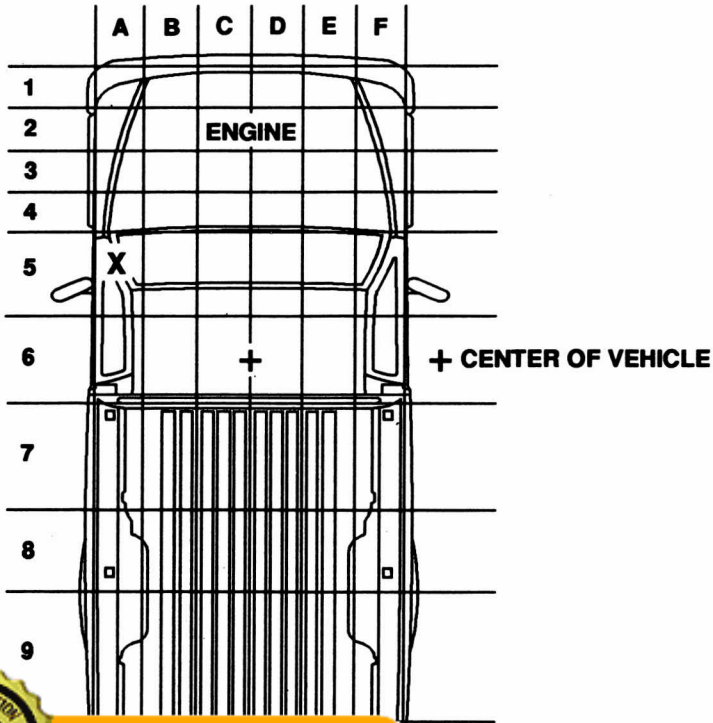
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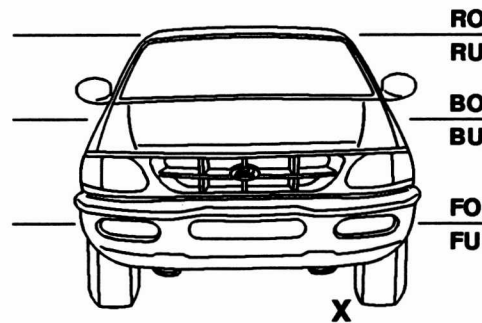
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LOCATION CODE, FOR THE EXAMPLE IS: **A5/FU** - (UNDER THE FLOOR OF THE DRIVER'S LEFT FOOT.)

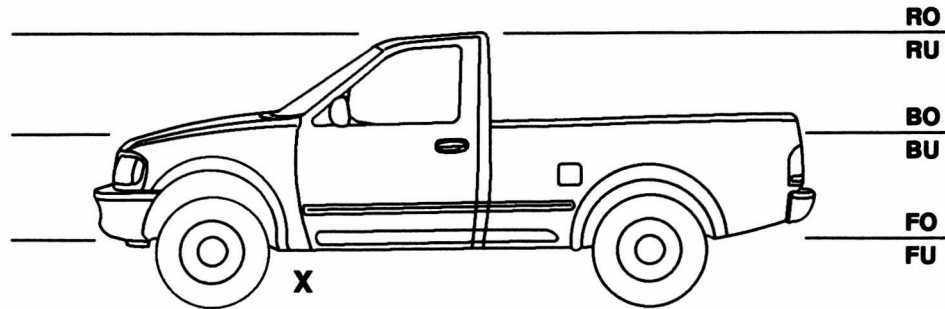
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FRONT



OVER/UNDER DIRECTION



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- BU = BELT UNDER
- F = FLOOR PAN
- FO = FLOOR OVER
- FU = FLOOR UNDER



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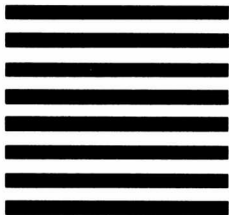


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