

# 2000 F-150



WIRING  
DIAGRAMS

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## **2000 Ford F-150 Truck Wiring Diagrams**

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# WIRING DIAGRAMS

## FCS-12263-00

### FORD CUSTOMER SERVICE DIVISION

## Quality is Job 1

Ford Customer Service Division has developed a new format for the 2000 F-150 Wiring Diagrams. Our goal is to provide accurate and timely electrical information.

### 2000 Wiring Diagrams 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; 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 Pagination:** A specific section (or cell) in all Wiring Diagrams 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 terminals, to aid in servicing electrical wiring.
- **"C"** numbers have been assigned for all electrical connectors. **"C"** numbers are listed in the **"LOCATION INDEX"** (CELL 152).
- **"HARNESS CAUSAL PART NUMBERS"** (CELL 153) has been added to aid in identifying warranty concerns.
- **In-line connector numbers** contain a suffix to denote connector "gender" type (F-socket, M-prior blade).

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

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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 to 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 choice of methods, tools or parts does not compromise personal safety or the vehicle integrity.*

# 2-1 HOW TO USE THIS MANUAL

2000 F-150

The purpose of this manual is to show electrical 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 located next to each component and connector and refer the user to the appropriate illustration page and zone. The description notes describe the operation of the component.

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 components and connectors in the vehicle.

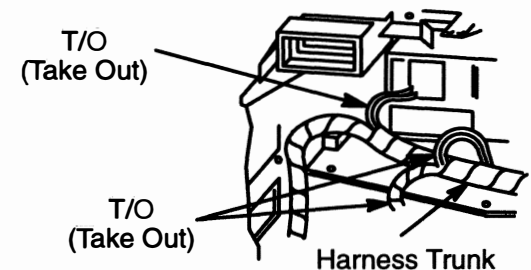
The **"LOCATION INDEX"** (Cell 152) provides the base part numbers, locations, connector face references and illustration references for all components, connectors, splices and grounds.

## HELPFUL REMINDERS

Before using the wiring diagrams 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.

Wiring harness at back of Instrument Panel, showing typical T/O (Take Out) locations



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.

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

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

**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 wiring diagrams, 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.



# 2-3 HOW TO USE THIS MANUAL

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Some engine circuits may need special test equipment and special procedures. See the *Workshop 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

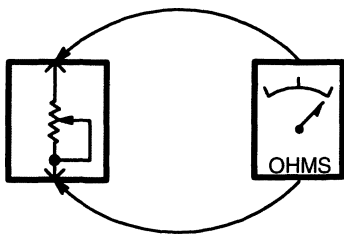


Figure 1 – Resistance Check

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

### TEST LAMP

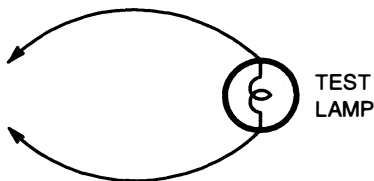


Figure 2 – Test Lamp

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

**Uses:** Voltage Check, Short Check.

### SELF-POWERED TEST LAMP

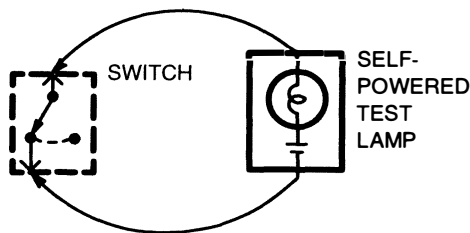


Figure 3 – Continuity Check

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.*

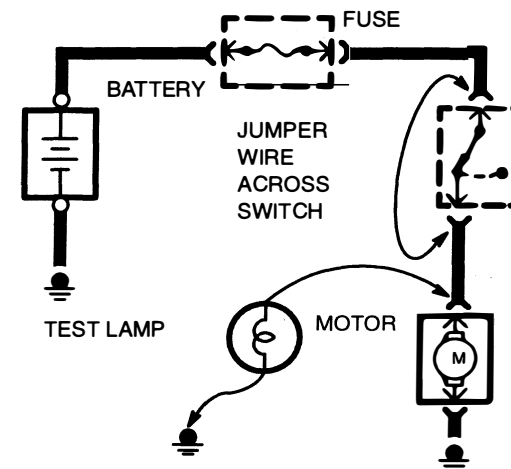


Figure 4 – Switch Circuit Check and Voltage Check

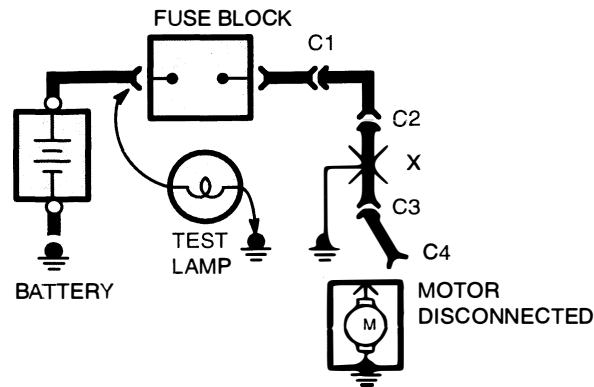
In an inoperative circuit with a switch in series with the load, jumper the terminals of the switch to power the load. If jumpering the terminals powers the circuit, the switch is inoperative (Figure 4).

### 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.

## 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).



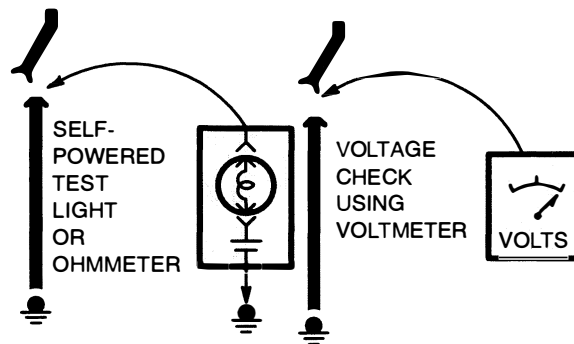
**Figure 5 – Short Check**

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.
3. Turn Ignition Switch to RUN (if necessary) to power fuse.

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.



**Figure 6 – Ground Check**

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.

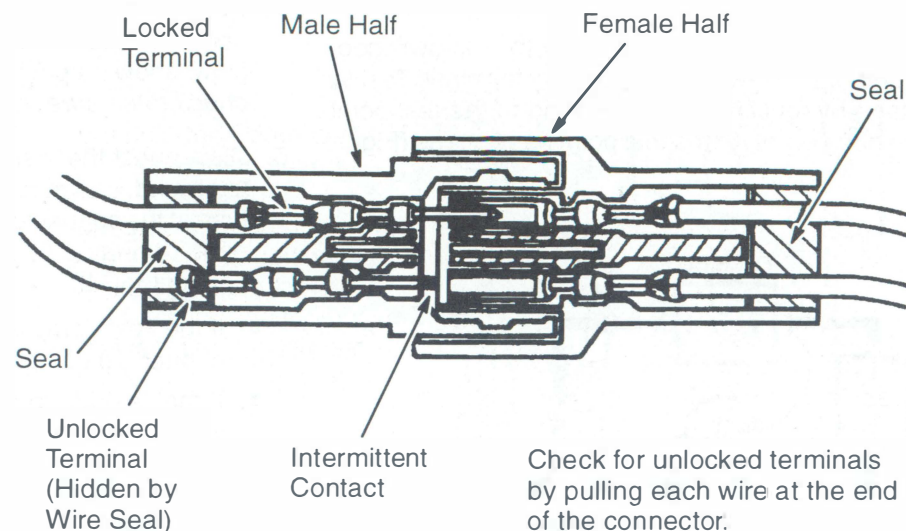
## 2-5 HOW TO USE THIS MANUAL

2000 F-150

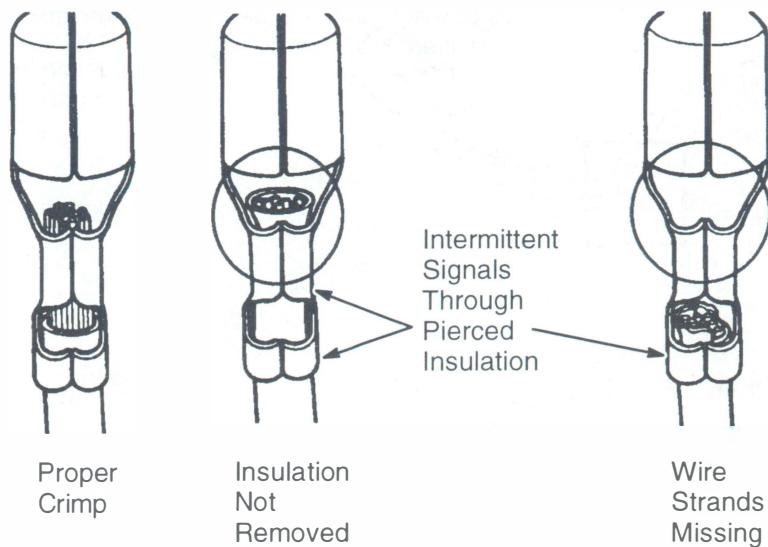
### TROUBLESHOOTING WIRING HARNESS AND CONNECTOR HIDDEN CONCERNS

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.

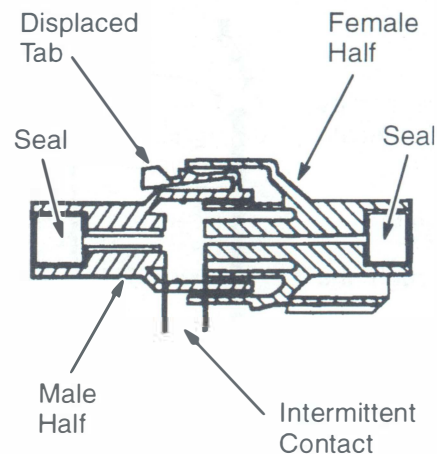
NOTE: Several components, such as the PCM, utilize gold plated terminals in their connections to the wiring harness. If those terminals need to be replaced, they must be replaced with a gold plated terminal.



### TERMINAL NOT PROPERLY SEATED

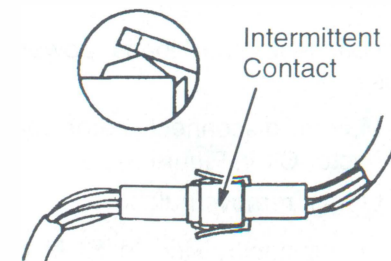


### DEFECTIVE INSULATION STRIPPING



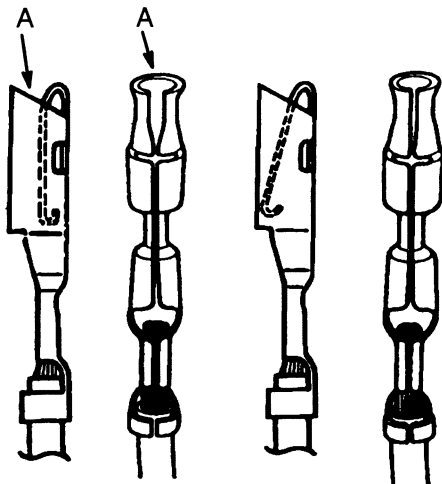
Type A

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



Type B

### PARTIALLY MATED CONNECTORS



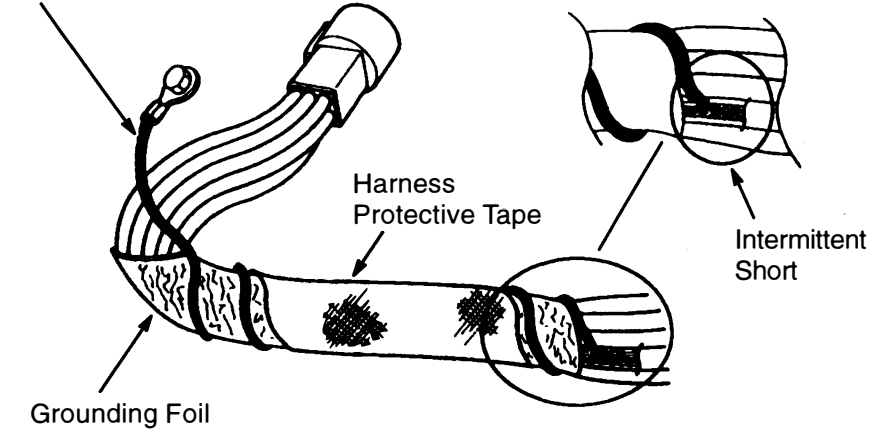
Enlarged

Normal

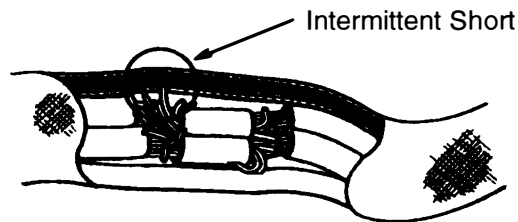
Any probe entering the terminal may enlarge the contact spring opening creating an intermittent signal. Insert the correct mating terminal (Location A) from the service kit and feel for a loose fit.

## DEFORMED (ENLARGED) FEMALE TERMINALS

Solder Coated Wire to Ground

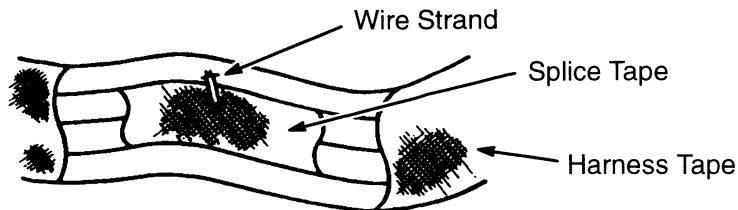


## ELECTRICAL SHORT INSIDE THE HARNESS



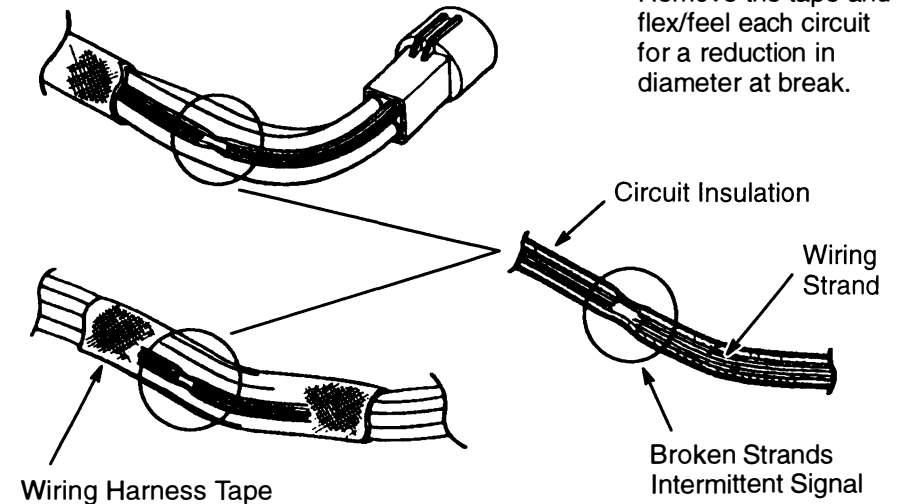
Splice Tape Removed

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



Splice Covered

## ELECTRICAL SHORT WITHIN THE HARNESS

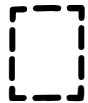


## BROKEN WIRE STRANDS IN HARNESS

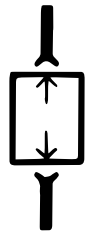


# 2-7 HOW TO USE THIS MANUAL

## ELECTRICAL SYMBOLS



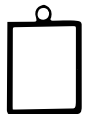
DASHED  
COMPONENT  
BOX  
ONLY PART OF THE  
COMPONENT IS SHOWN  
ON THE PAGE; THE  
COMPONENT IS SHOWN  
COMPLETE IN ANOTHER  
LOCATION



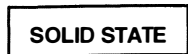
COMPONENT  
WITH  
CONNECTORS



BATTERY



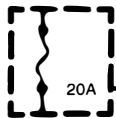
SCREW TERMINAL  
ON COMPONENT



SEALED  
ELECTRONIC  
COMPONENT  
ANY CIRCUITRY  
SHOWN INSIDE THE  
BOX IS A FUNCTIONAL  
EQUIVALENT ONLY  
AND IS NOT EXACT



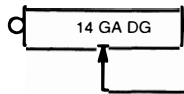
GROUND  
CONNECTION



FUSE

20A

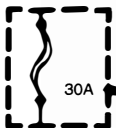
CURRENT  
RATING



14 GA DG

FUSIBLE LINK

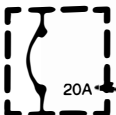
WIRE SIZE AND COLOR



30A

MAXI-FUSE  
or  
FUSIBLE LINK  
CARTRIDGE

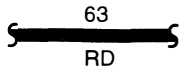
CURRENT RATING



20A

CIRCUIT  
BREAKER

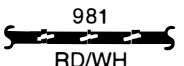
CURRENT  
RATING



63

RD

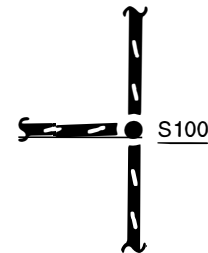
SOLID WIRES



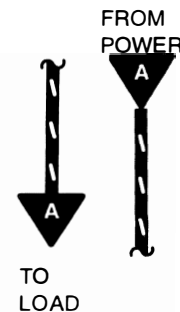
981

RD/WH

STRIPED WIRES



SPLICE OR  
CRIMP  
TERMINAL

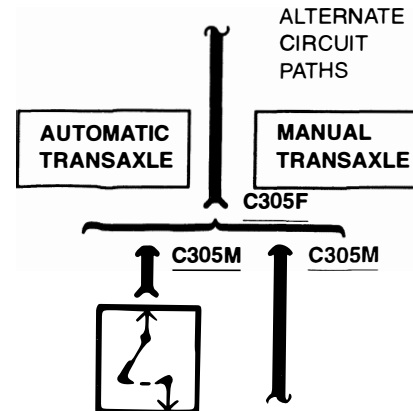


"CUT" WIRES  
REFERENCED  
BETWEEN PAGES  
ARROWS SHOW  
CURRENT FLOW  
FROM POWER  
TO GROUND

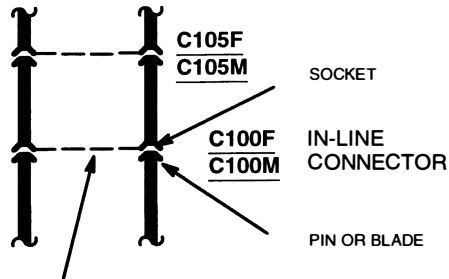


REVERSING  
LAMPS

"REFERENCE"  
WIRES  
COMPLETE WIRING  
SHOWN ON  
ANOTHER PAGE

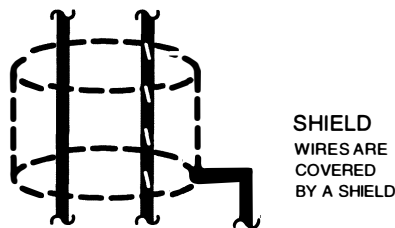
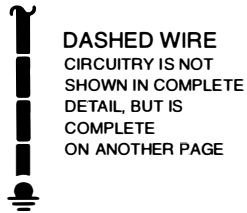


## ELECTRICAL SYMBOLS



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

**SEE GROUNDS**  
PAGES 10-1,  
10-2



MOTOR



HEATING  
ELEMENT



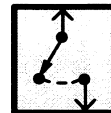
THERMISTOR



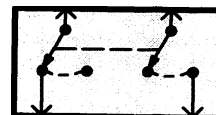
RHEOSTAT  
OR  
POTENTIOMETER



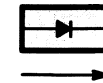
SOLENOID



SWITCH



GANGED  
SWITCHES  
CONTACTS MOVE  
AT THE SAME TIME



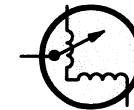
DIODES  
CURRENT FLOWS  
IN DIRECTION OF  
ARROW ONLY



CAPACITOR



TRANSISTOR



GAUGE



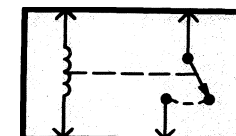
LIGHT  
EMITTING  
DIODE  
(LED)



LIGHT  
BULB



DUAL FILAMENT  
LIGHT BULB



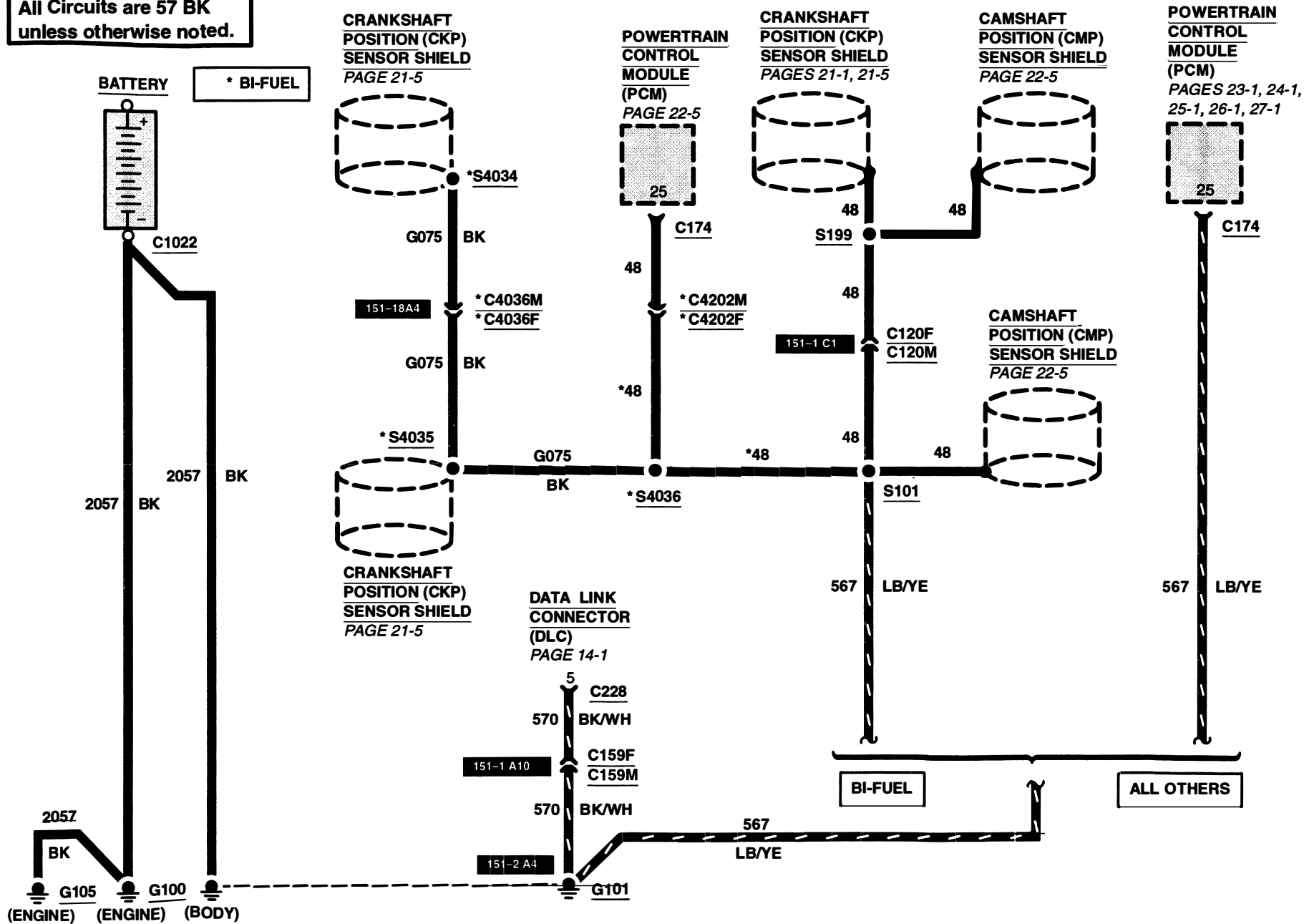
RELAY  
CONTACTS  
CHANGE POSITION  
WITH CURRENT  
THROUGH COIL

# 10-1 GROUNDS

2000 F-150

All Circuits are 57 BK  
unless otherwise noted.

\* BI-FUEL



**All Circuits are 57 BK unless otherwise noted.**

**MASS AIR FLOW (MAF) SENSOR**  
PAGES 22-2, 23-2, 24-2, 25-2, 26-2, 27-2



C141  
570 BK/WH

ALL OTHERS

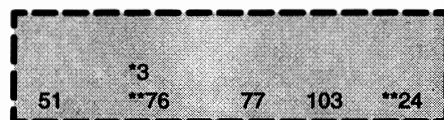
SPORT

C156F  
C156M

570 BK/WH

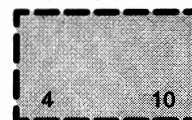
570 BK/WH

**POWERTRAIN CONTROL MODULE (PCM)**  
PAGES 22-1, 23-1, 24-1, 25-1, 26-1, 27-1

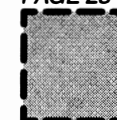


\* 5.4L AND 4.6L  
\*\* 4.2L

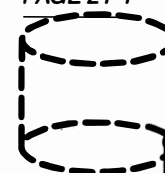
**NGV TIMER**  
PAGE 26-9



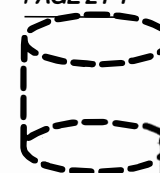
**CAMSHAFT POSITION (CMP) SENSOR**  
PAGE 23-5



**CRANKSHAFT POSITION (CKP) SENSOR SHIELD**  
PAGE 21-1



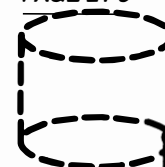
**CRANKSHAFT POSITION (CKP) SENSOR SHIELD**  
PAGE 21-1



151-2 A9

C120F  
C120M

**CAMSHAFT POSITION (CMP) SENSOR SHIELD**  
PAGE 21-5



151-1 C1

C120F  
C120M

SPORT

S100

\*\*57

4.2L

570 BK/WH

151-2 A4

G101

S199



## 2000 F-150

## BATTERY JUNCTION BOX

**SPEED**  
**CONTROL**  
**SERVO**  
*PAGE 31-2*

**ENGINE  
COMPARTMENT  
LAMP**  
*PAGE 89-1*

**WINDSHIELD  
WIPER  
MOTOR**  
*PAGE 81-2*

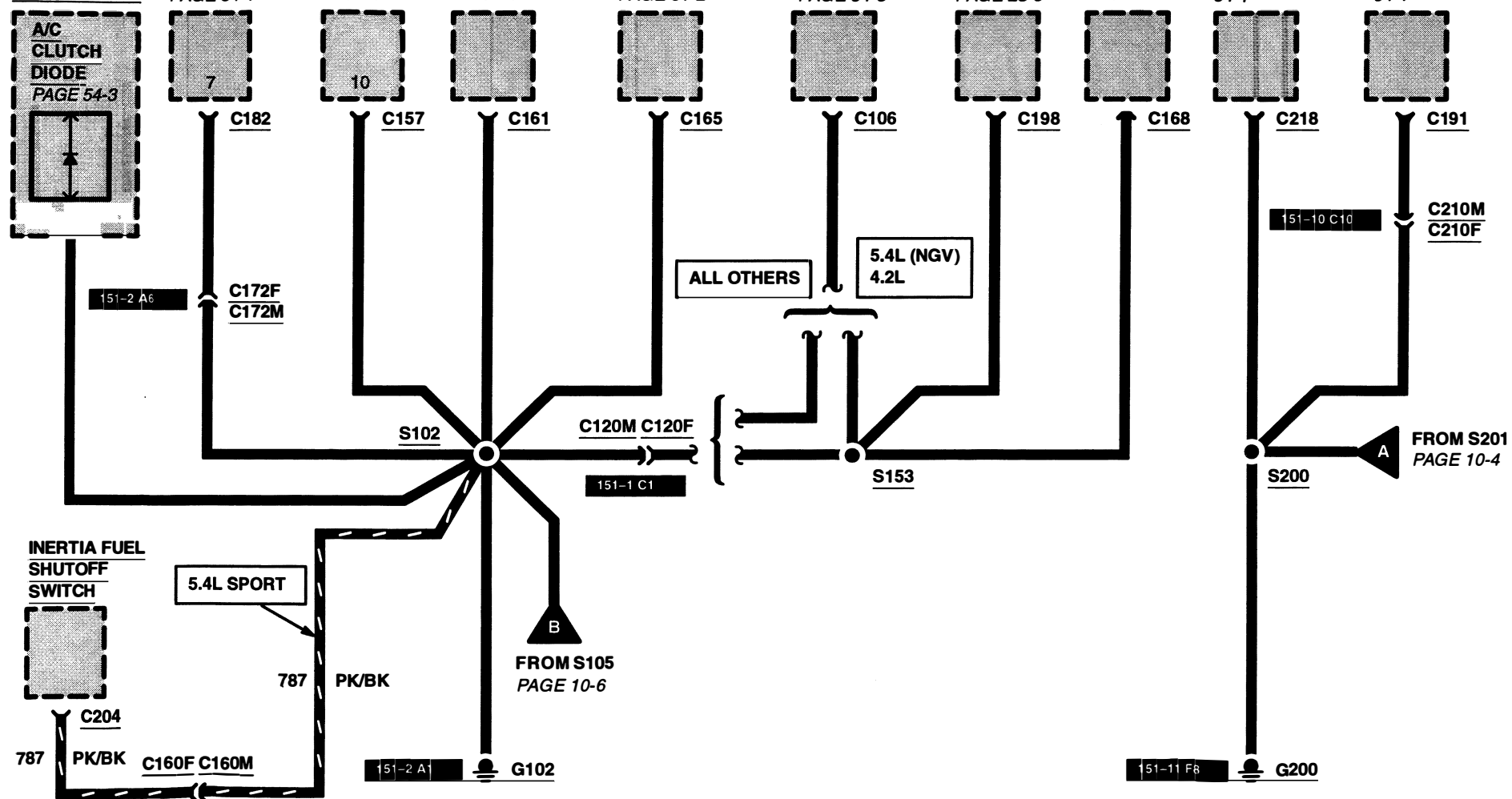
**A/C**  
**COMPRESSOR**  
**CLUTCH**  
**SOLENOID**  
*PAGE 54-3*

**INTAKE  
MANIFOLD  
RUNNER  
CONTROL  
(IMRC)**  
*PAGE 23-5*

**FUEL RAIL  
CUTOFF  
VALVE**  
*PAGE 26-7*

**FUNCTION  
SELECTOR  
SWITCH  
ASSEMBLY**  
*PAGES 53-1,  
54-1*

**BLOWER  
MOTOR  
RESISTOR**  
*PAGES 53-1,  
54-1*



# 10-7 GROUNDS

2000 F-150

All Circuits are 57 BK  
unless otherwise noted.

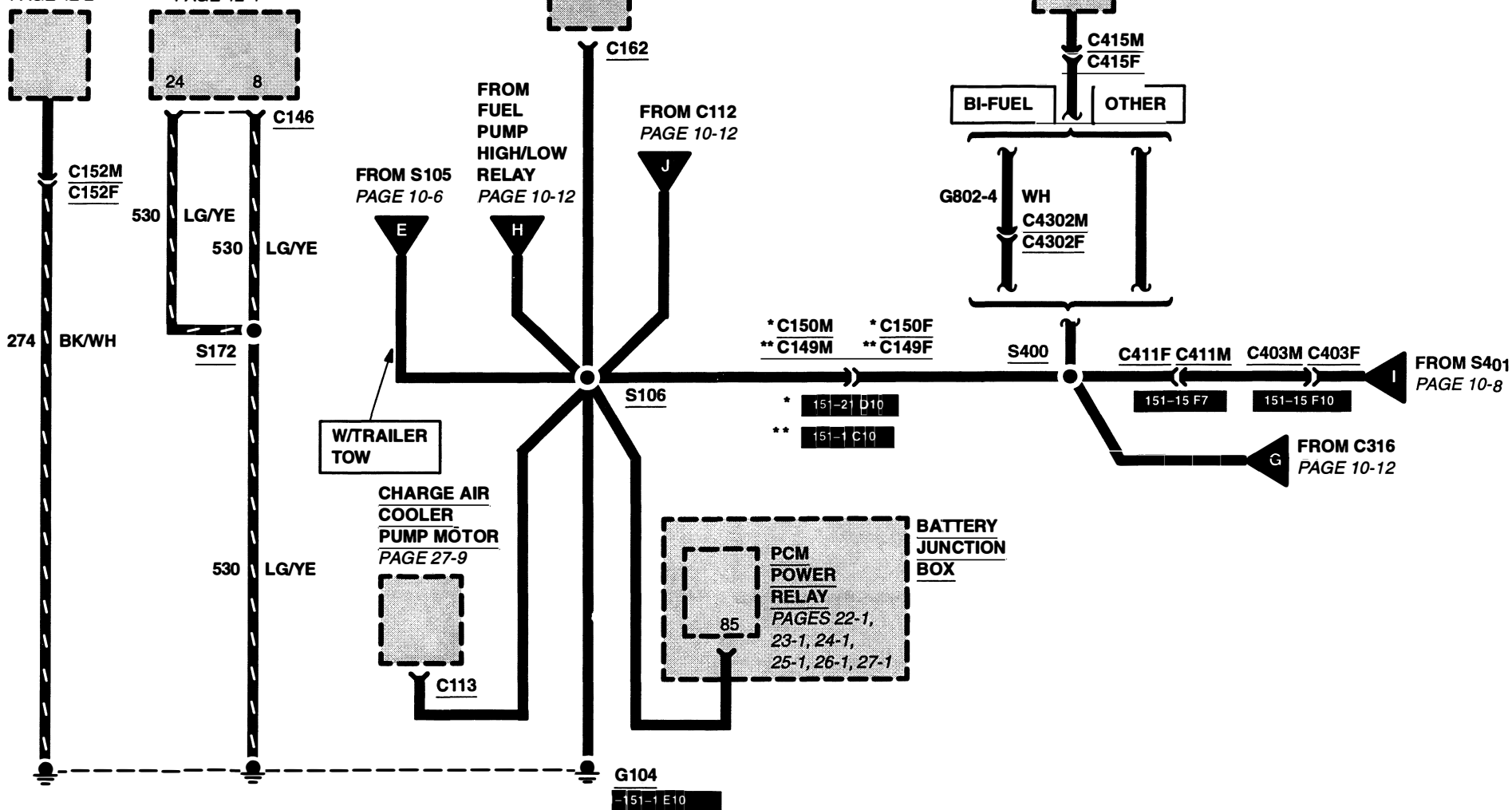
REAR ANTI-  
LOCK BRAKE  
SYSTEM (RABS)  
PROPORTIONING  
VALVE SWITCH  
ASSEMBLY  
PAGE 42-2

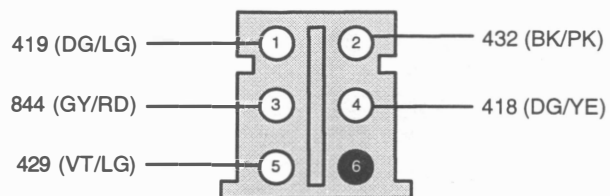
4 WHEEL ANTI-LOCK  
BRAKE SYSTEM  
(4WABS) MODULE  
PAGE 42-4

BRAKE  
FLUID LEVEL  
INDICATOR  
SWITCH  
PAGES 42-1,  
42-3

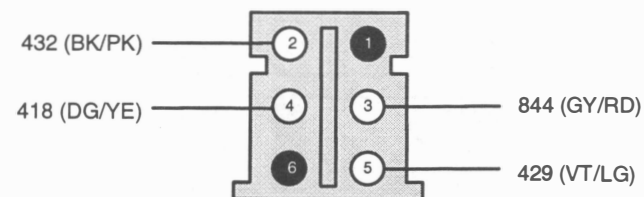
FUEL  
PUMP  
ASSEMBLY  
PAGES 22-11,  
23-7, 24-7,  
25-7

\* SPORT  
\*\* ALL OTHERS  
\*\*\* BI-FUEL

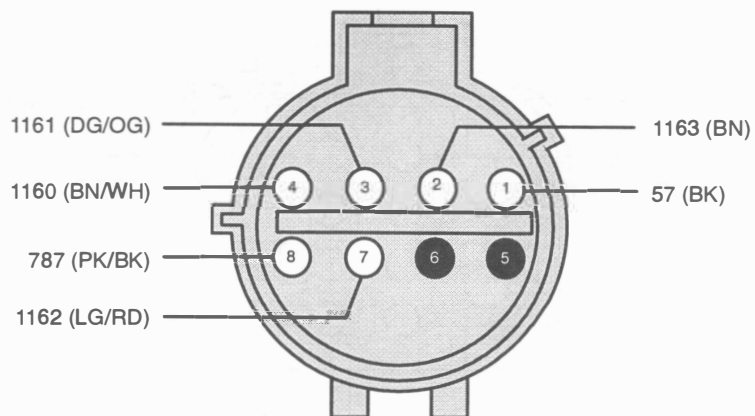




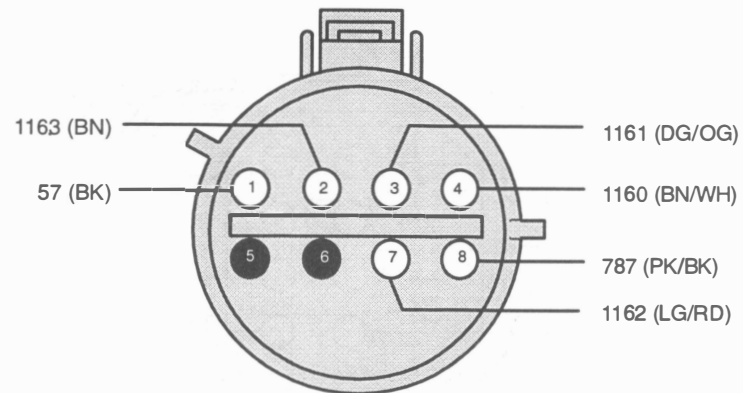
**C278F**



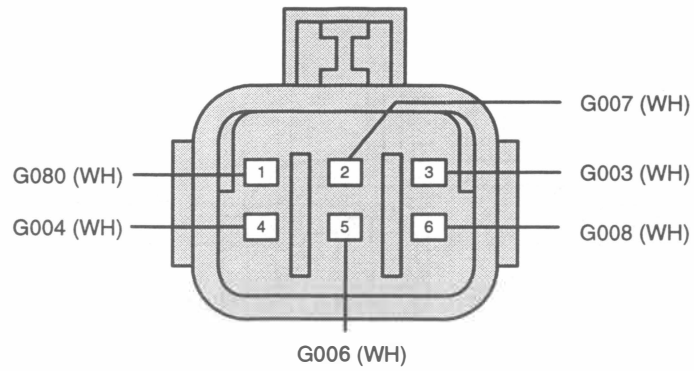
**C278M**



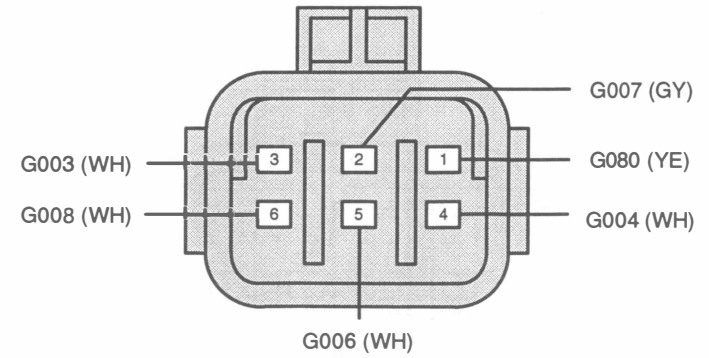
**C316F**



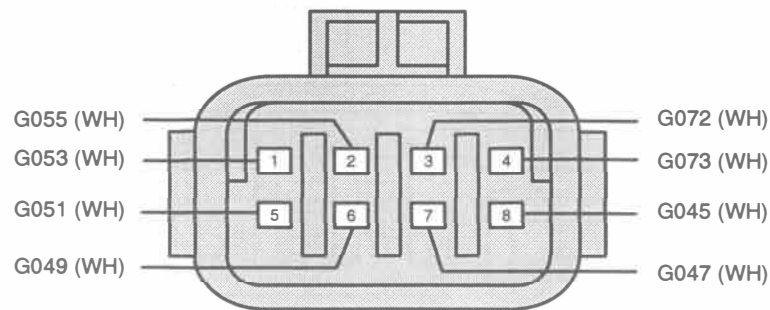
**C316M**



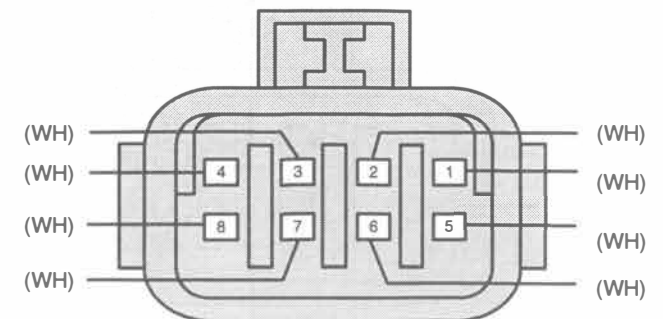
**C4003F**



**C4003M**



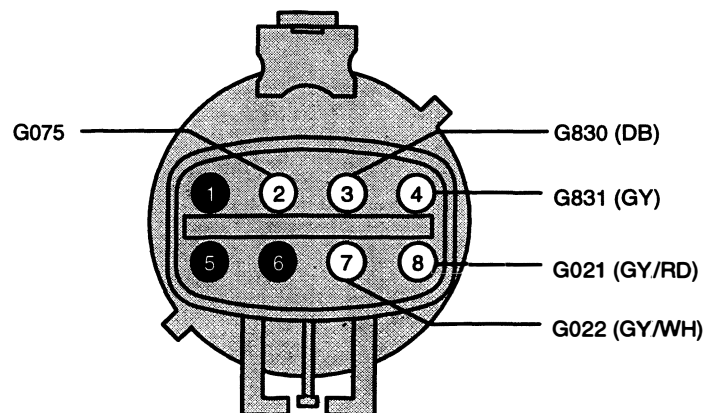
**C4013F**



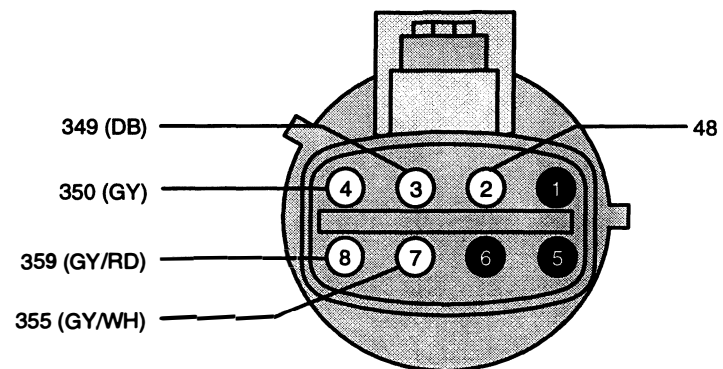
**C4013M**

# 150-19 IN-LINE CONNECTOR FACES

2000 F-150



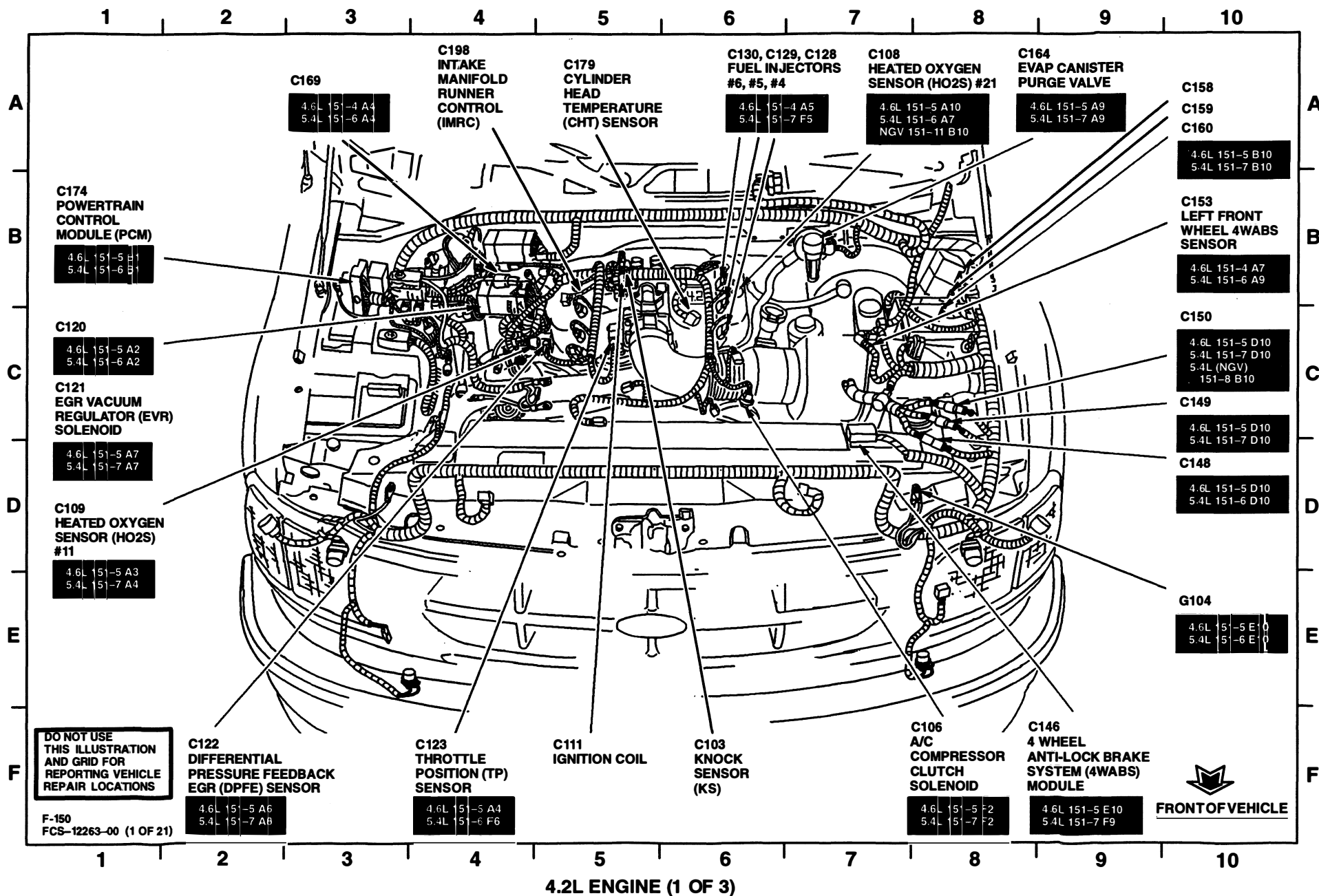
C4202F



C4202M

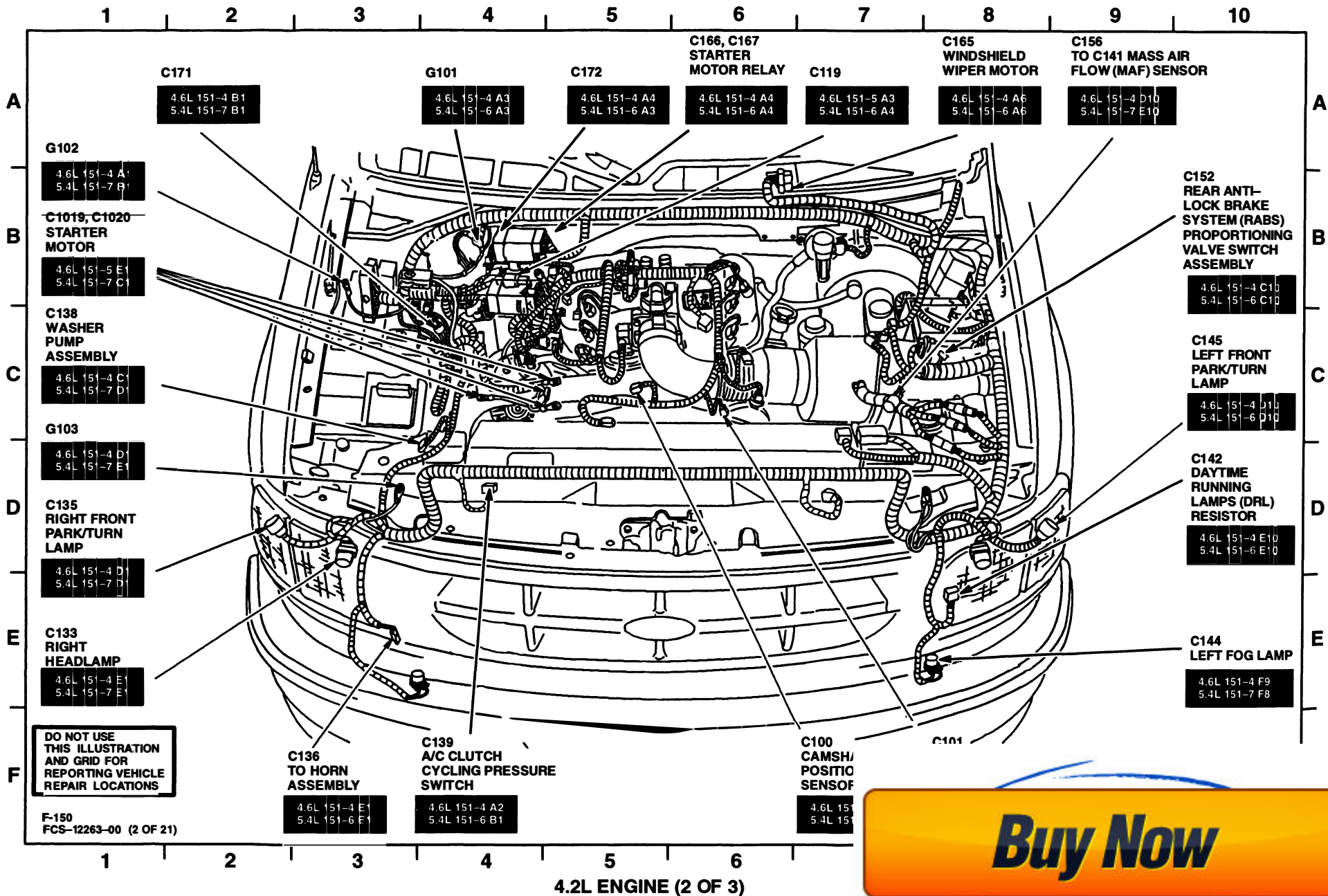
# 151-1 COMPONENT LOCATION VIEWS

2000 F-150



# COMPONENT LOCATION VIEWS 151-2

2000 F-150



**Buy Now**

