

# ELECTRICAL AND VACUUM TROUBLESHOOTING MANUAL

## FCS-12254-97

### FORD CUSTOMER SERVICE DIVISION

### Quality is Job 1

Ford Customer Service Division has continued with the existing format for the 1997 F-SERIES EVTVM. Our goal is to provide accurate and timely electrical and vacuum service information.

### 1997 EVTVM FEATURES

- Schematic pages contain **Component Location** references to full-view illustrations.
- **"COMPONENT TESTING"** procedures (CELL 149) tell the user how to perform diagnostic tests on various circuits.
- **Connector Views** are located at the end of individual cells along with a circuit function chart, and are shown for connectors with five or more cavities.
- **NOTES, CAUTIONS and WARNINGS** contain important safety information.
- Full view **"COMPONENT LOCATION VIEWS"** (CELL 151) help locate on-vehicle components.
- Circuit voltages appear on schematic pages to help simplify troubleshooting. Nonessential troubleshooting hints have been deleted.
- **Cellular Pagination:** Each section (or cell) in the EVTVM is identified by a unique number 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) shows in-line connectors with six or more terminals, to aid in servicing electrical wiring.
- "C" numbers are assigned for all electrical connectors. "C" numbers are listed in the **"LOCATION INDEX"** (CELL 152).
- **"HARNES CAUSAL PART NUMBERS"** (CELL 153) aids in identifying warranty concerns.
- **In-line connector numbers** contain a suffix to denote connector "gender" type (F-socket, M-prior blade).

### ORDERING INFORMATION

Information about how to order additional copies of this publication or other Ford publications may be obtained by writing to Helm, Incorporated at the address shown below or by calling 1-800-782-4356. Other publications available include:

- Service Manuals
- Service Specification Books
- Car/Truck Wiring Diagrams
- Powertrain Control/Emissions Diagnosis Manuals

Helm Incorporated  
P.O. Box 07150  
Detroit, Michigan 48207

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1997 F-250 HD/350/SUPER DUTY

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\*\* CALIFORNIA EXCEPT SUPER DUTY

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

# 2-1 HOW TO USE THIS MANUAL

1997 F-250 HD/350/SUPER DUTY

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 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.

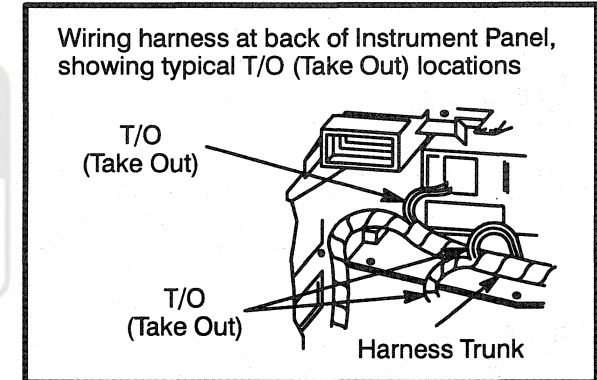
**"COMPONENT LOCATION VIEWS"** (Cell 151) contains full-view illustrations which show the location of all components and connectors in the vehicle.

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 EVTM 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.

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 EVTm, 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 *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

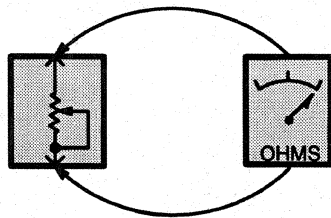


Figure 1 – Resistance Check

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

#### TEST LAMP

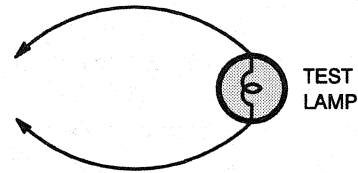


Figure 2 – Test Lamp

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

Uses: Voltage Check, Short Check.

#### SELF-POWERED TEST LAMP

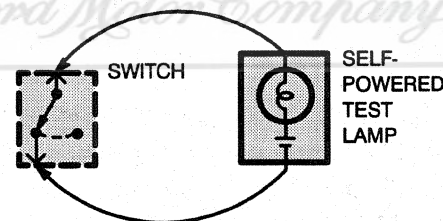


Figure 3 – Continuity Check

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.

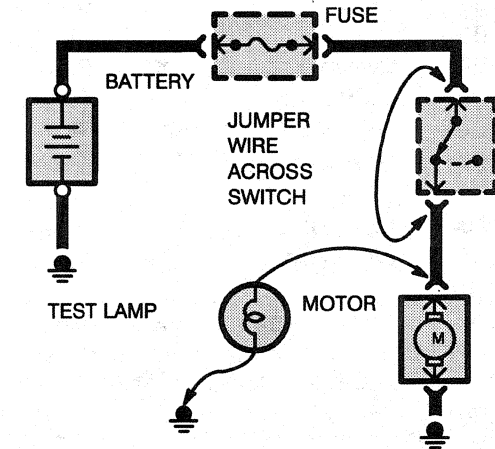


Figure 4 – Switch Circuit Check and Voltage Check

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).

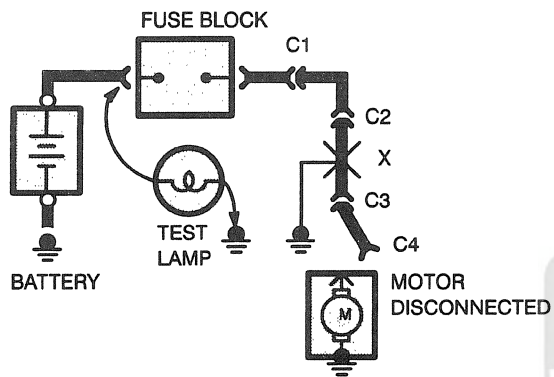


Figure 5 – Short Check

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.

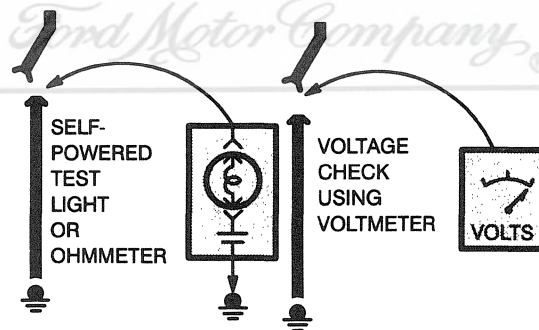


Figure 6 – Ground Check

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 low beam headlights 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.

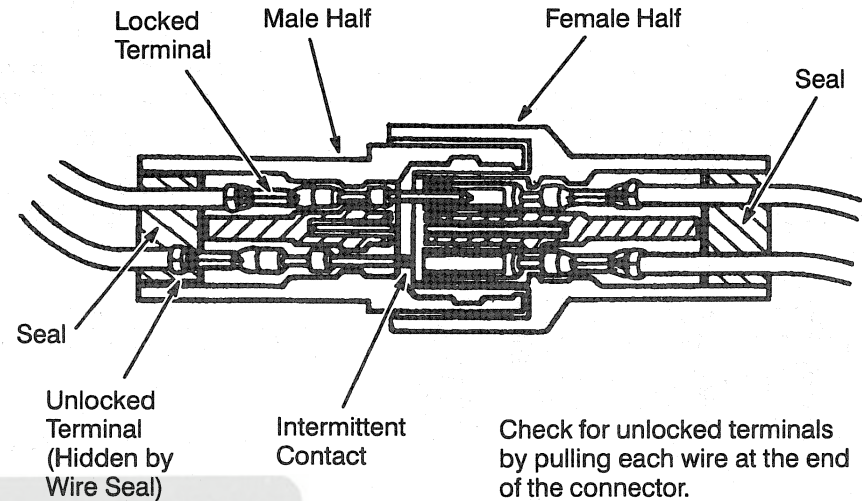
# 2-5 HOW TO USE THIS MANUAL

1997 F-250 HD/350/SUPER DUTY

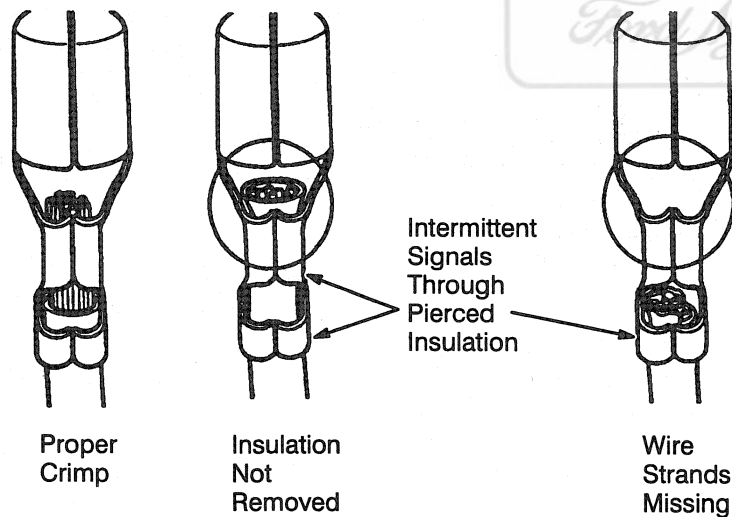
## TROUBLESHOOTING WIRING HARNESS AND CONNECTOR HIDDEN CONCERNS

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.

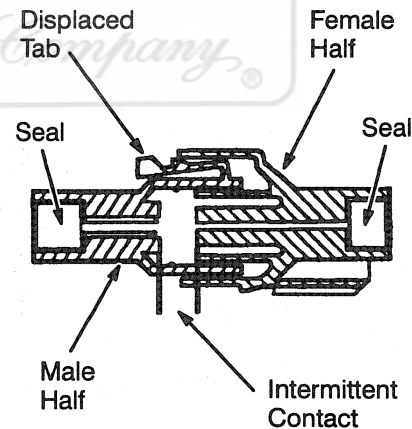
NOTE: Several components, such as the PCM, utilize gold plated terminals in their connections to the wiring harness. If those terminals need to be replaced, they must be replaced with a gold plated terminal.



## TERMINAL NOT PROPERLY SEATED

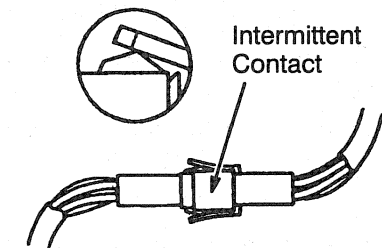


## DEFECTIVE INSULATION STRIPPING



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

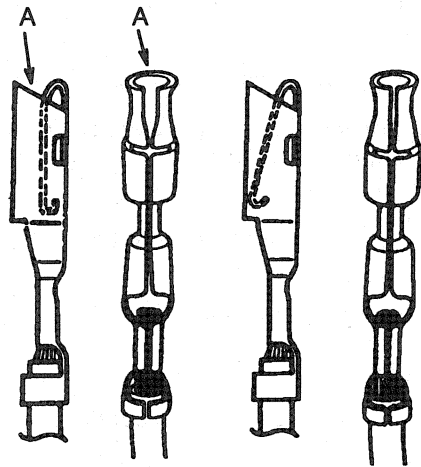
Type A



Type B

## PARTIALLY MATED CONNECTORS



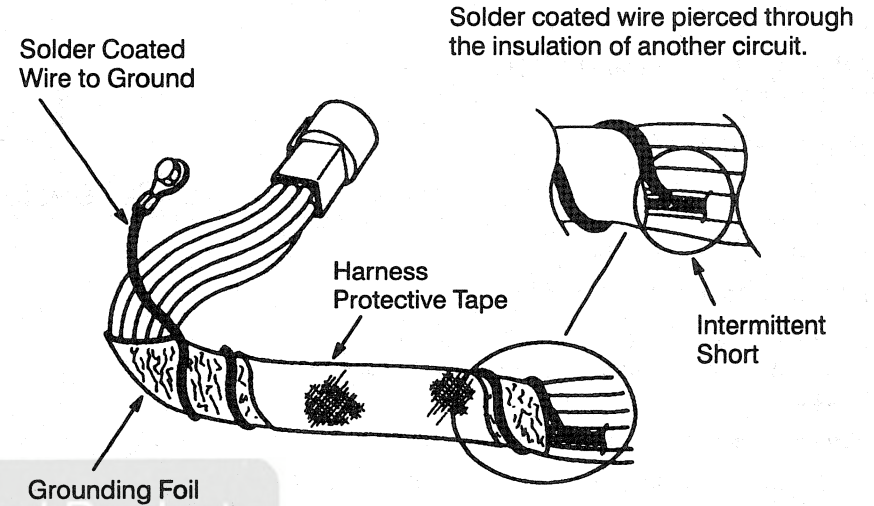


Enlarged

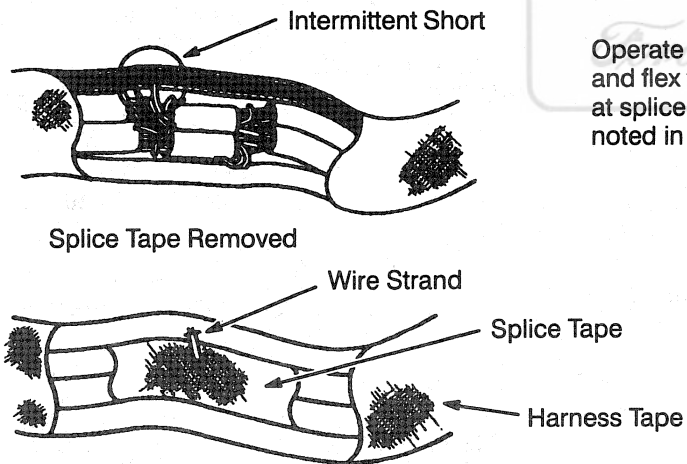
Normal

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



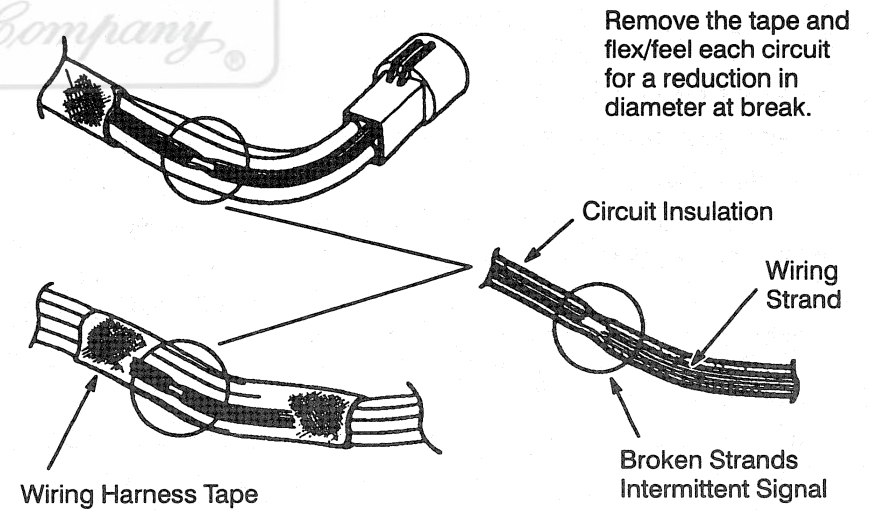
## ELECTRICAL SHORT INSIDE THE HARNESS



Splice Covered

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

## ELECTRICAL SHORT WITHIN THE HARNESS



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

## BROKEN WIRE STRANDS IN HARNESS

## 2-7 HOW TO USE THIS MANUAL

1997 F-250 HD/350/SUPER DUTY

### 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.

**NOTE: Vacuum system problems fall into three groups.**

1. Leaks in hoses, connectors or motor diaphragms.
2. Pinched lines or clogged valves.
3. Inoperative parts driven by vacuum motors.

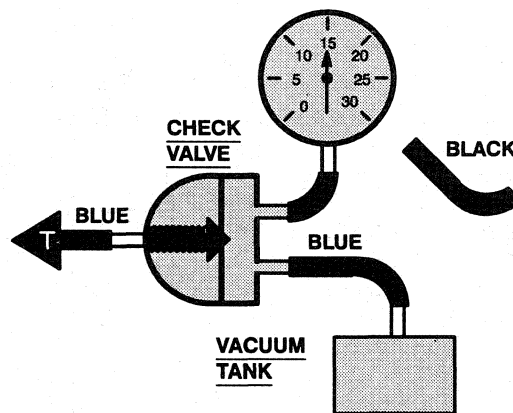


Figure 1 – System Supply Test

#### 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.

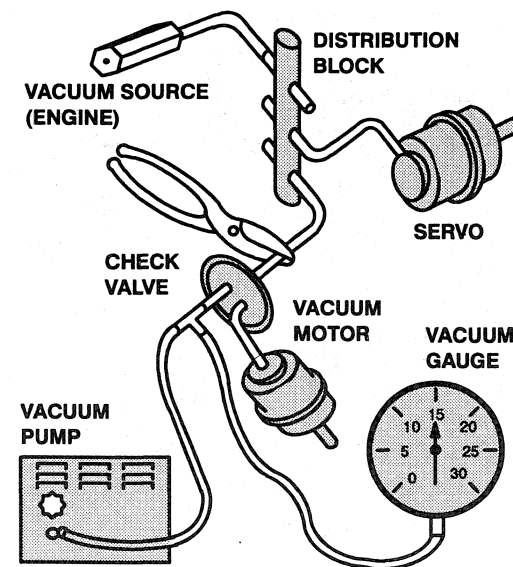
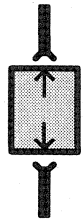


Figure 2 – Testing For Leaks In Typical Vacuum System

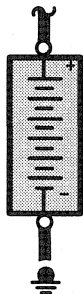
## ELECTRICAL SYMBOLS



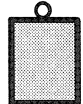
**DASHED COMPONENT BOX**  
ONLY PART OF THE COMPONENT IS SHOWN ON THE PAGE; THE COMPONENT IS SHOWN COMPLETE IN ANOTHER LOCATION



**COMPONENT WITH CONNECTORS**



**BATTERY**



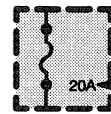
**SCREW TERMINAL ON COMPONENT**

**SOLID STATE**

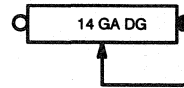
**SEALED ELECTRONIC COMPONENT**  
ANY CIRCUITRY SHOWN INSIDE THE BOX IS A FUNCTIONAL EQUIVALENT ONLY AND IS NOT EXACT



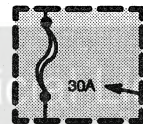
**GROUND CONNECTION**



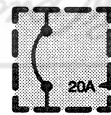
**FUSE**  
CURRENT RATING



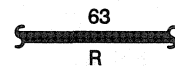
**FUSIBLE LINK**  
WIRE SIZE AND COLOR



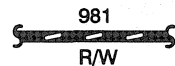
**MAXI-FUSE OR FUSIBLE LINK CARTRIDGE**  
CURRENT RATING



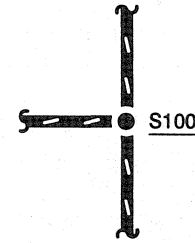
**CIRCUIT BREAKER**  
CURRENT RATING



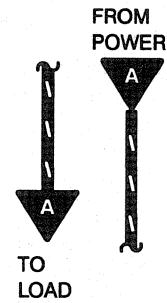
**SOLID WIRES**



**STRIPED WIRES**



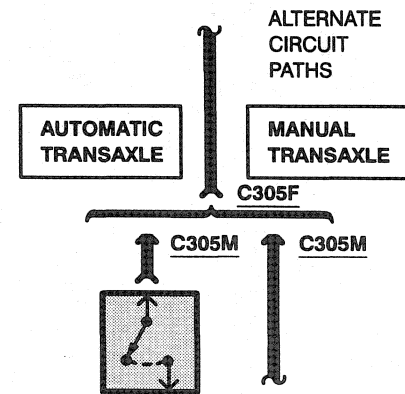
**SPLICE OR CRIMP TERMINAL**



**"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**

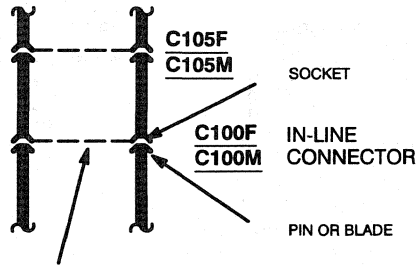
**C305M**

**C305M**

# 2-9 HOW TO USE THIS MANUAL

1997 F-250 HD/350/SUPER DUTY

## ELECTRICAL SYMBOLS

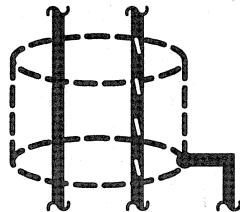


SINGLE DASHED LINE INDICATES THAT WIRE ON LEFT ALSO PASSES THROUGH THE SAME CONNECTOR

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



FIELD COIL



MOTOR



HEATING ELEMENT



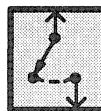
THERMISTOR



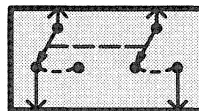
RHEOSTAT OR POTENTIOMETER



SOLENOID



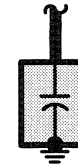
SWITCH



GANGED SWITCHES CONTACTS MOVE AT THE SAME TIME



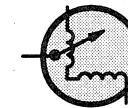
DIODES CURRENT FLOWS IN DIRECTION OF ARROW ONLY



CAPACITOR



TRANSISTOR



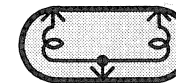
GAUGE



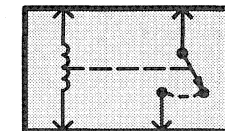
LIGHT EMITTING DIODE (LED)



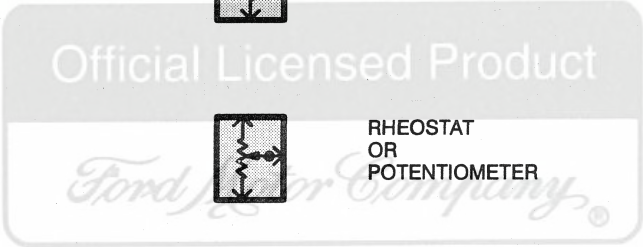
LIGHT BULB



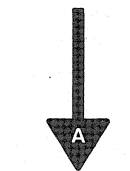
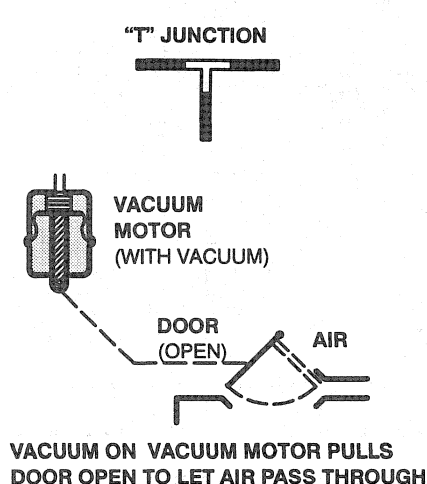
DUAL FILAMENT LIGHT BULB



RELAY CONTACTS CHANGE POSITION WITH CURRENT THROUGH COIL

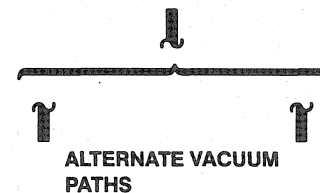


## VACUUM SYMBOLS



"CUT" HOSES REFERENCED BETWEEN PAGES  
ARROW SHOWS FROM MANIFOLD FITTING TO COMPONENT

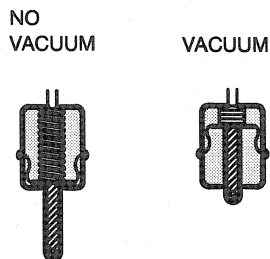
FROM VACUUM DISTRIBUTION



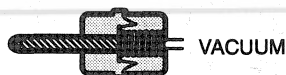
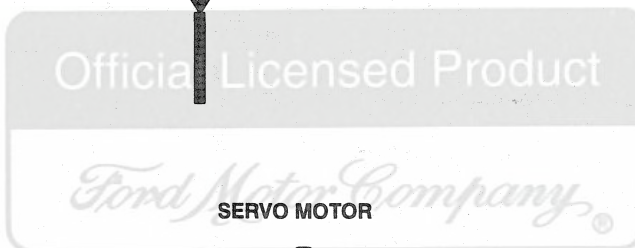
Note: Other vacuum symbols used on vacuum system diagrams are fully explained on the pages where they appear.

## VACUUM MOTOR OPERATION

### SINGLE DIAPHRAGM MOTOR

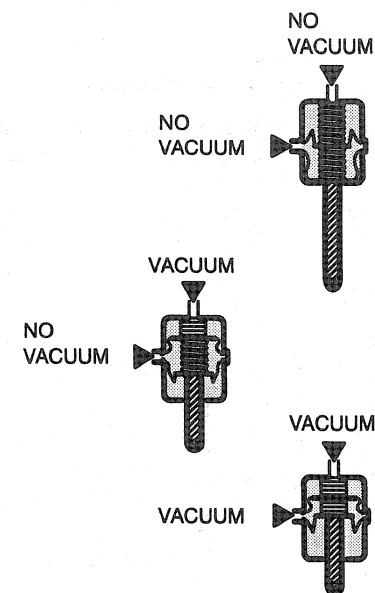


Vacuum motors operate like electrical solenoids, mechanically pushing or pulling a shaft between two fixed positions. When vacuum is not applied, the shaft is pushed all the way out by a spring.



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



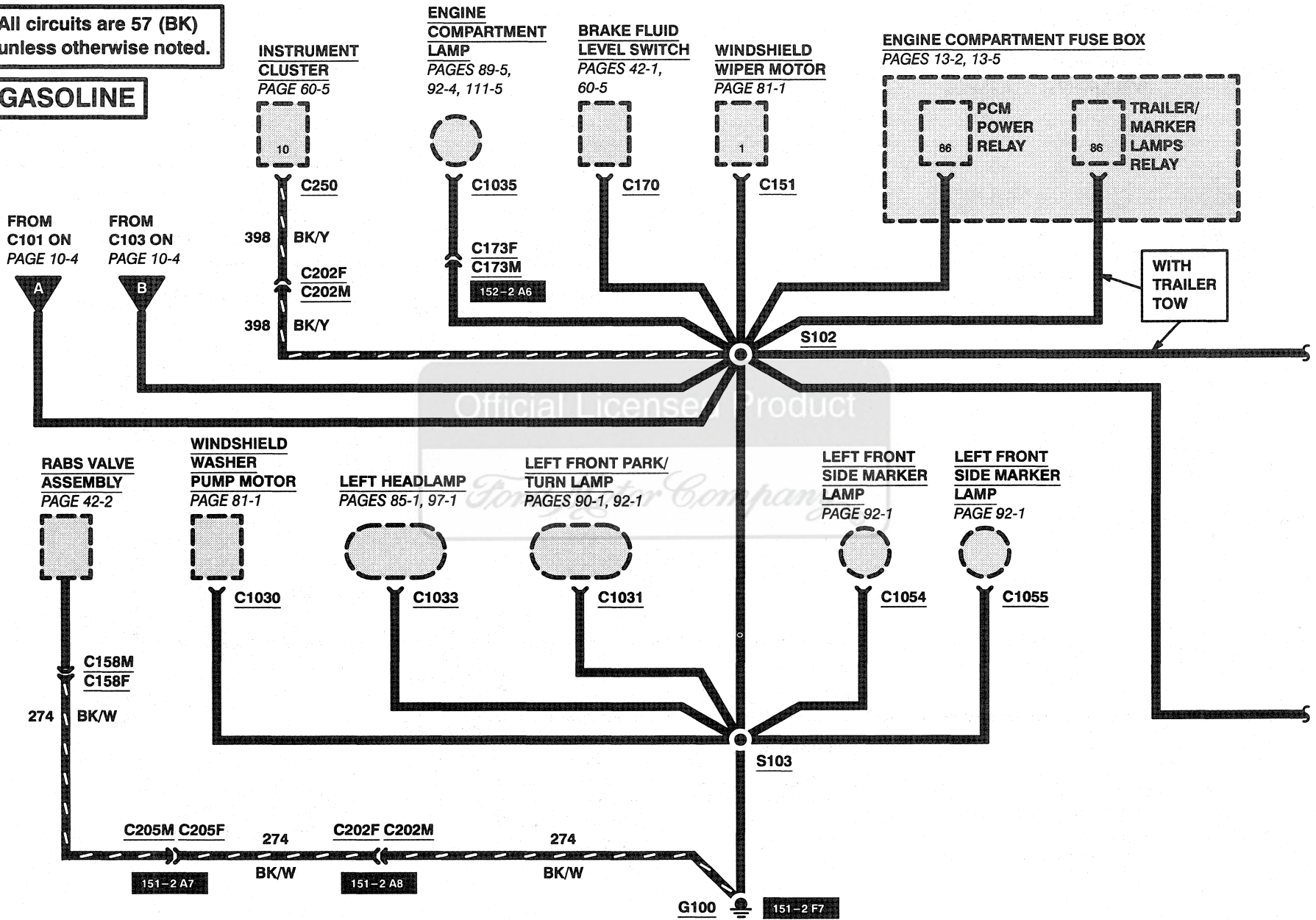
A double diaphragm motor has three positions (it is actually two motors in one housing). When the top port gets vacuum, the shaft pulls halfway in. When both ports get vacuum, the shaft pulls all the way in.

# 10-1 GROUNDS

1997 F-250 HD/350/SUPER DUTY

All circuits are 57 (BK) unless otherwise noted.

**GASOLINE**

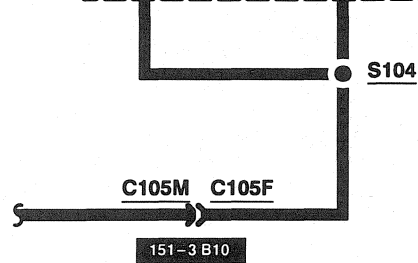
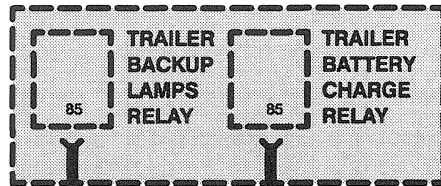


# GROUNDS 10-2

1997 F-250 HD/350/SUPER DUTY

## TRAILER RELAY BOX

PAGE 95-2



**GASOLINE**

FROM  
S404 ON  
PAGE 10-7



C401F

(TERMINATES  
IN HARNESS)



C401F

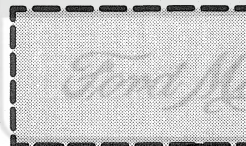
STYLE SIDE  
FLARE SIDE

C401M

151-14 F6

CHASSIS CAB

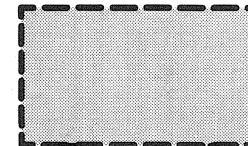
REAR TANK FUEL  
PUMP/FUEL GAUGE  
SENDER  
PAGE 49-2



C441M  
C441F

89 O

FRONT TANK  
FUEL PUMP/  
FUEL GAUGE  
SENDER  
PAGE 49-2



C440M  
C440F

89 O

DUAL  
TANK  
ONLY

S400  
C205M  
C205F

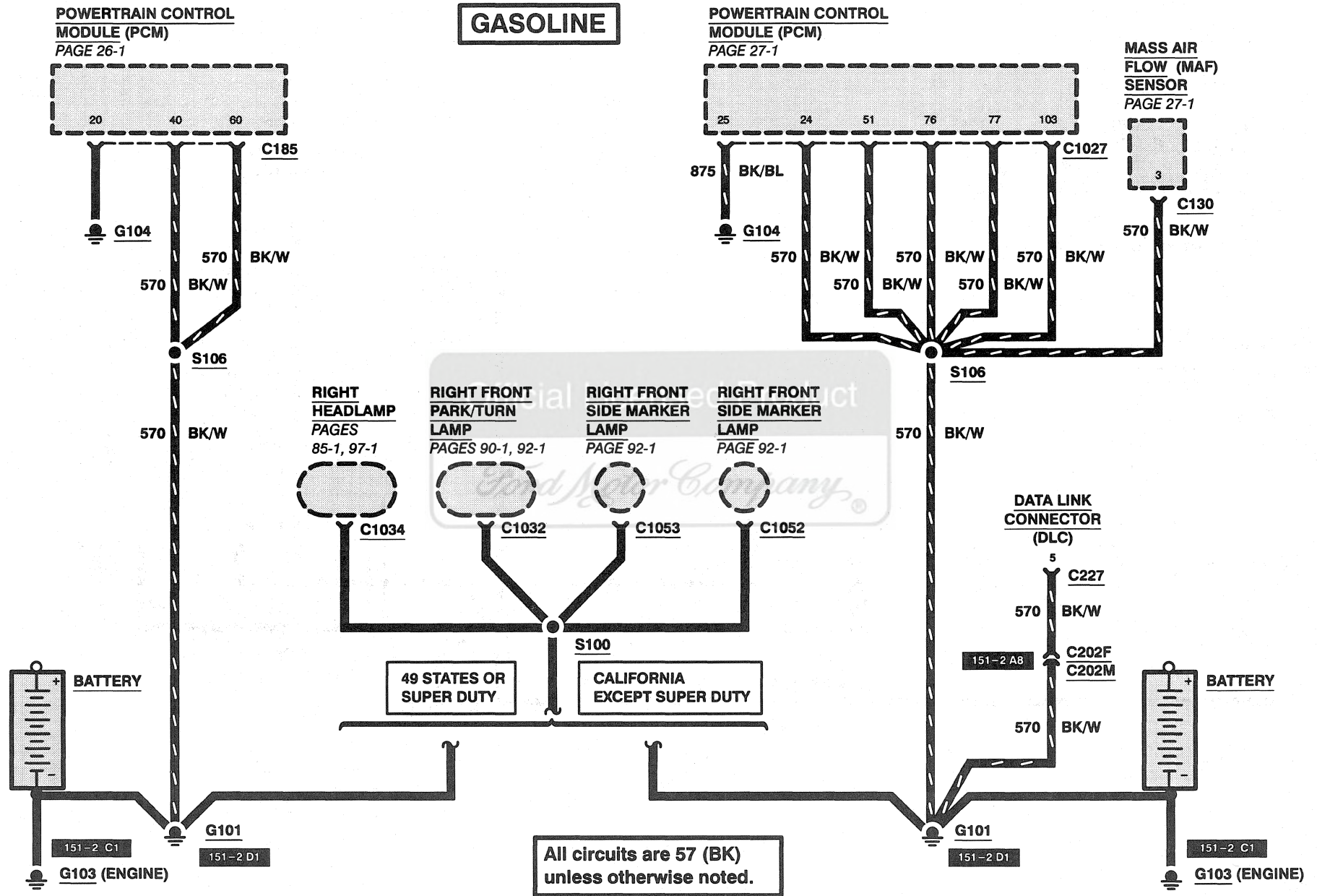
151-2 A7

C202M C202F

151-2 A8

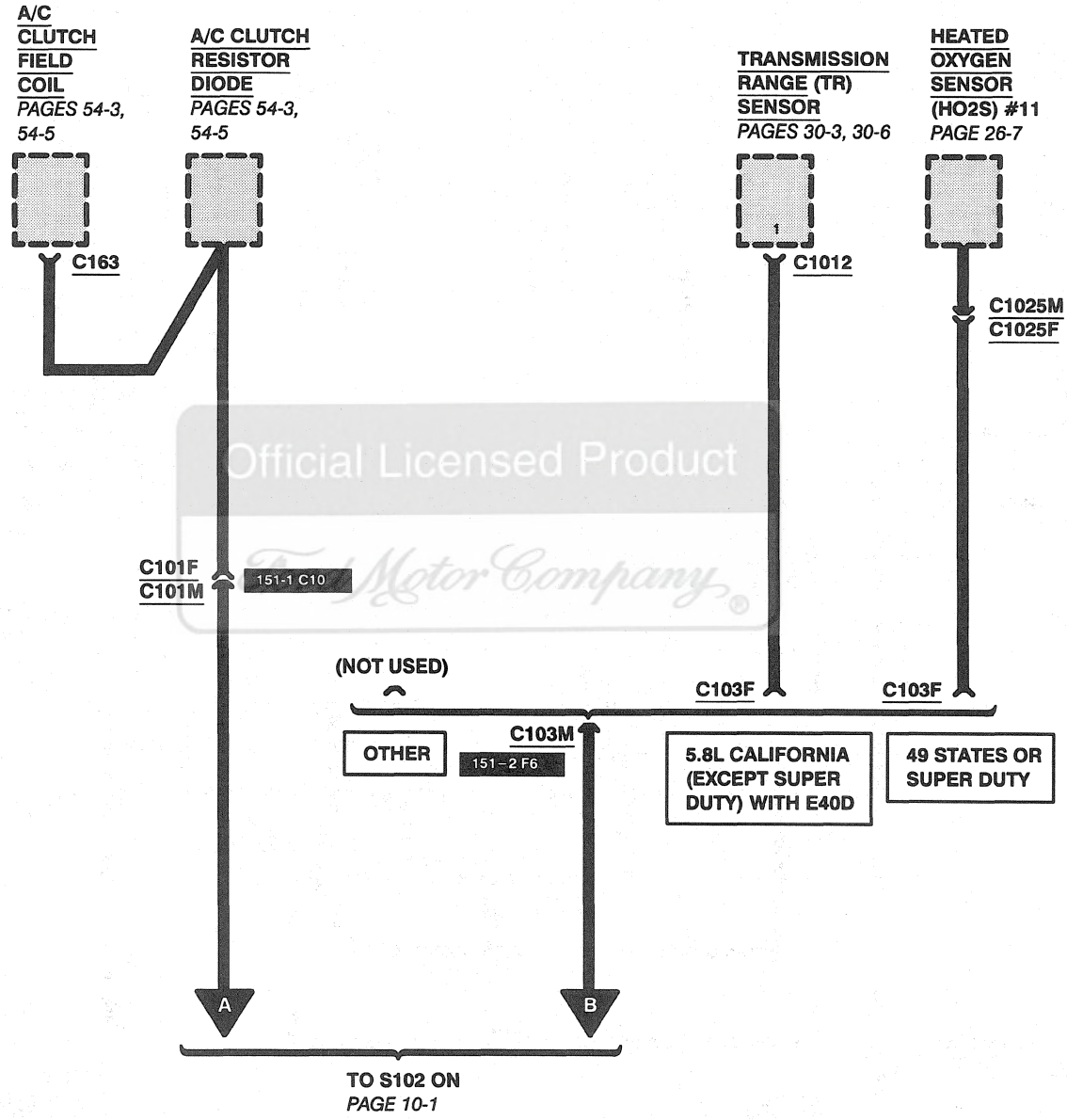
# 10-3 GROUNDS

1997 F-250 HD/350/SUPER DUTY





## GASOLINE

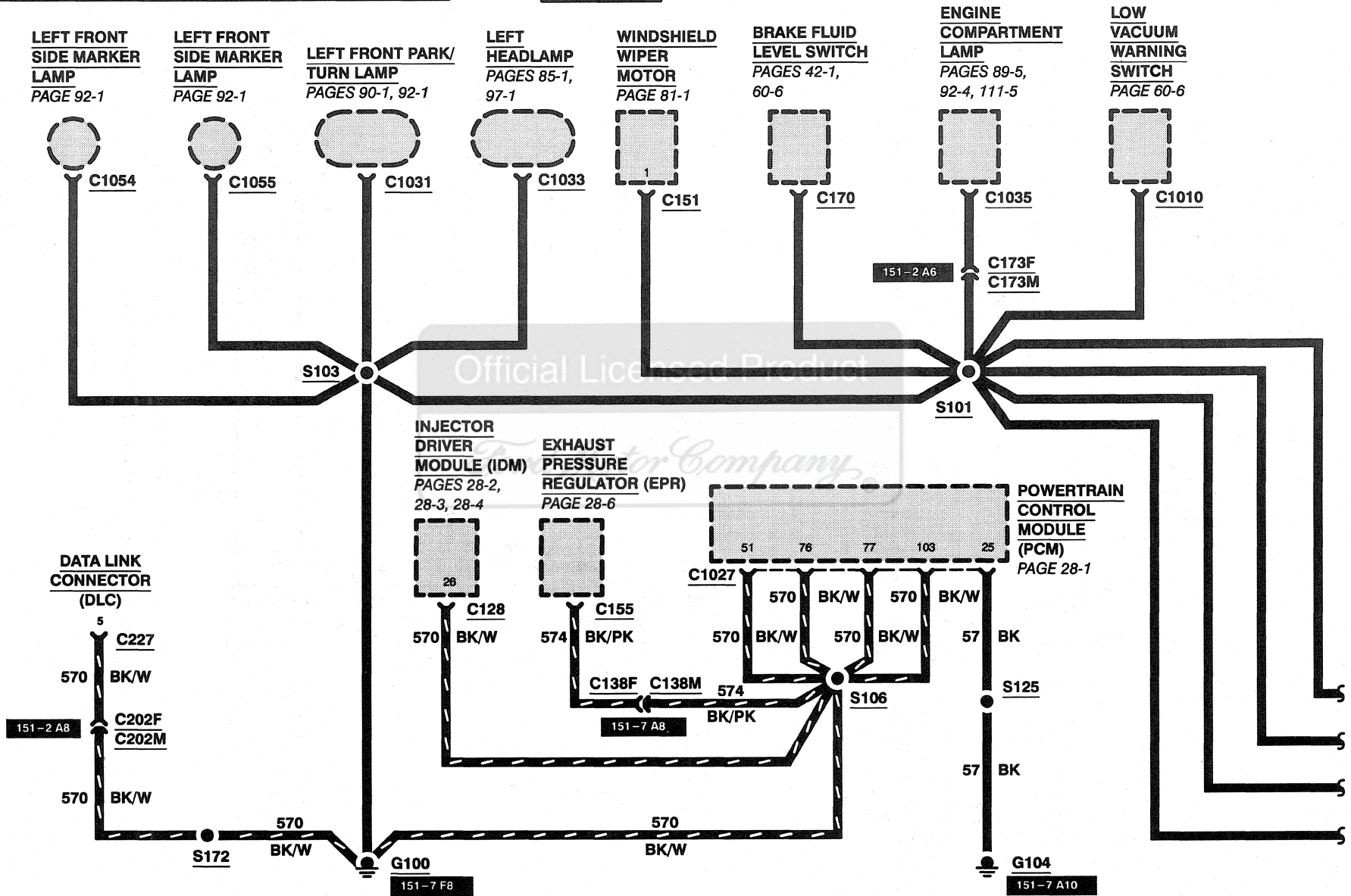


# 10-5 GROUNDS

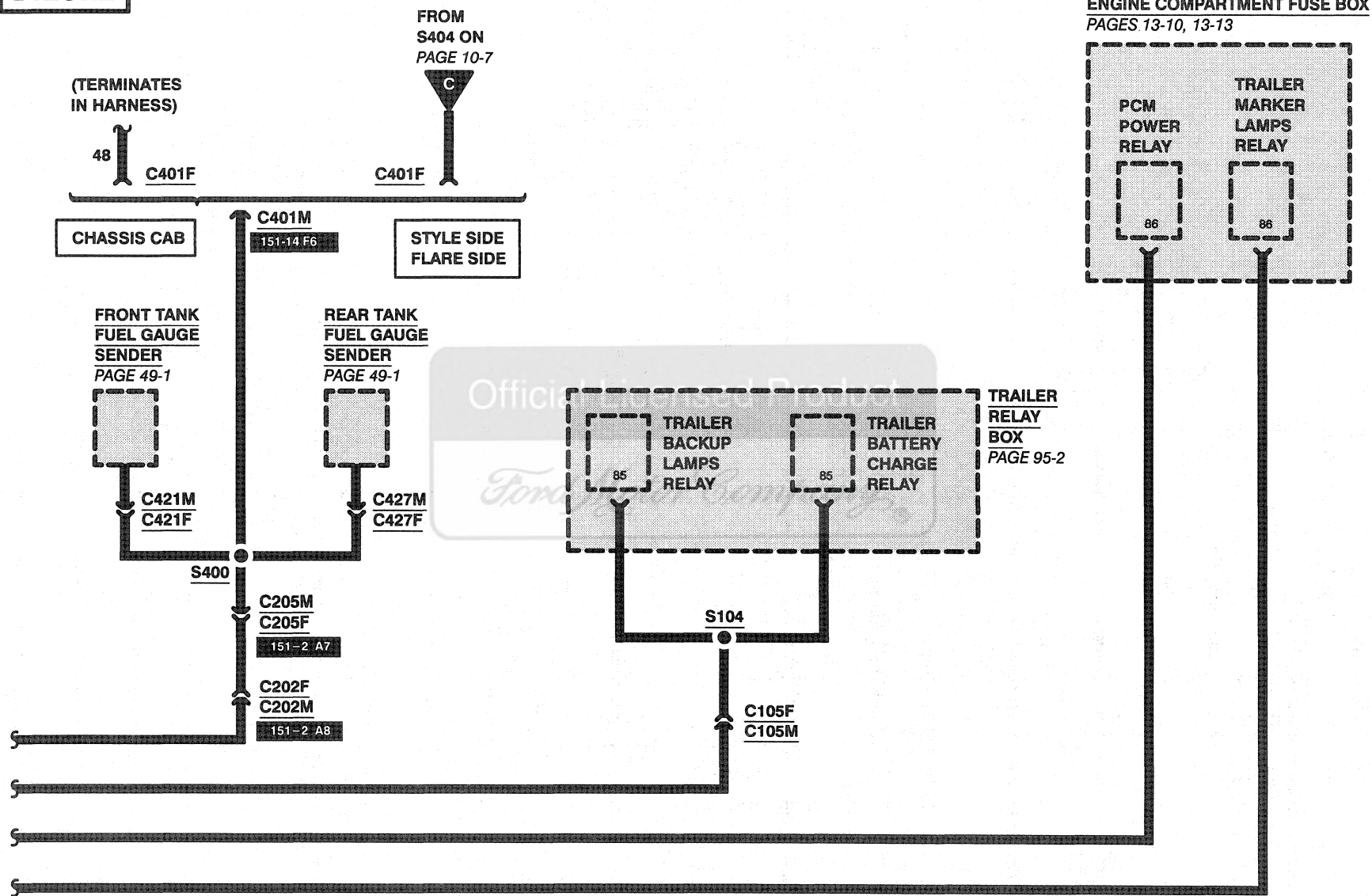
1997 F-250 HD/350/SUPER DUTY

All circuits are 57 (BK) unless otherwise noted.

**DIESEL**



## DIESEL



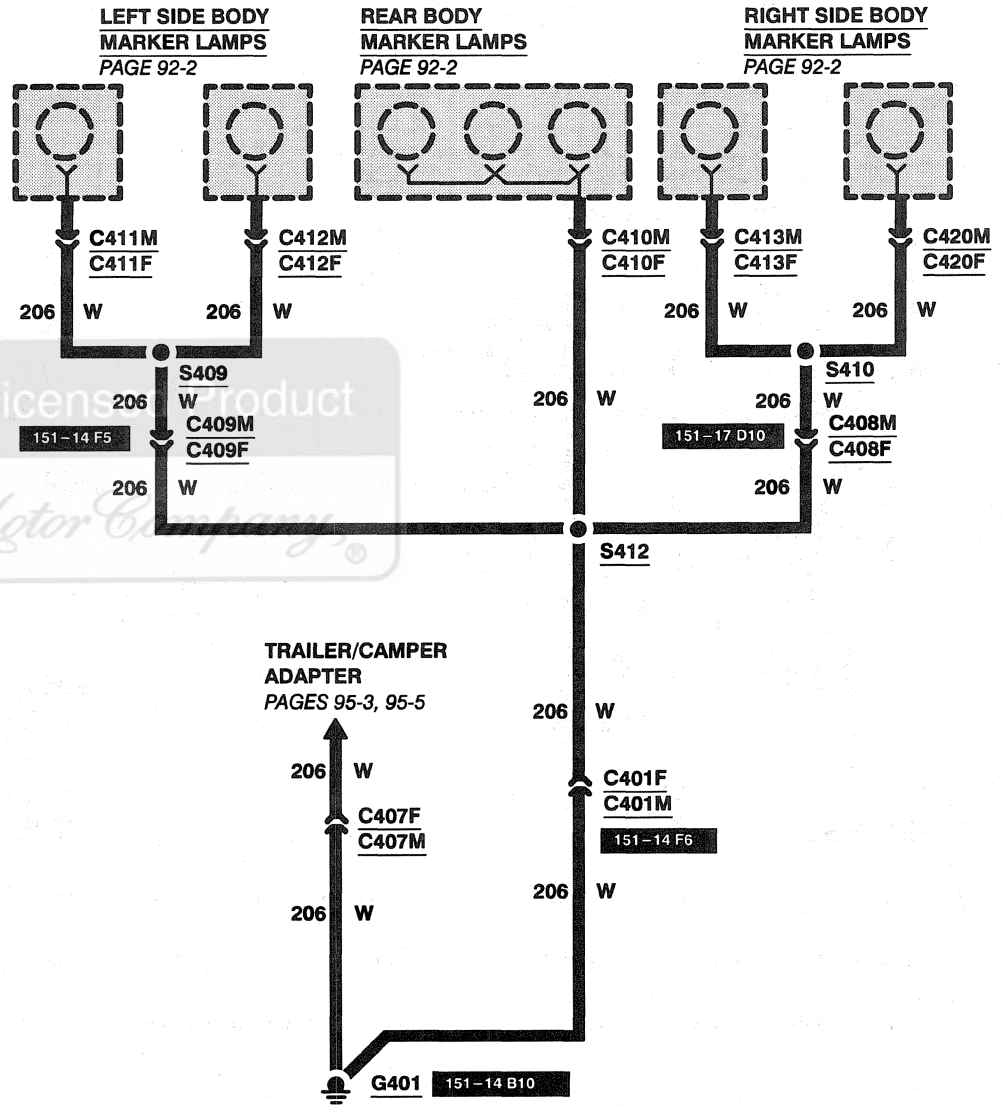
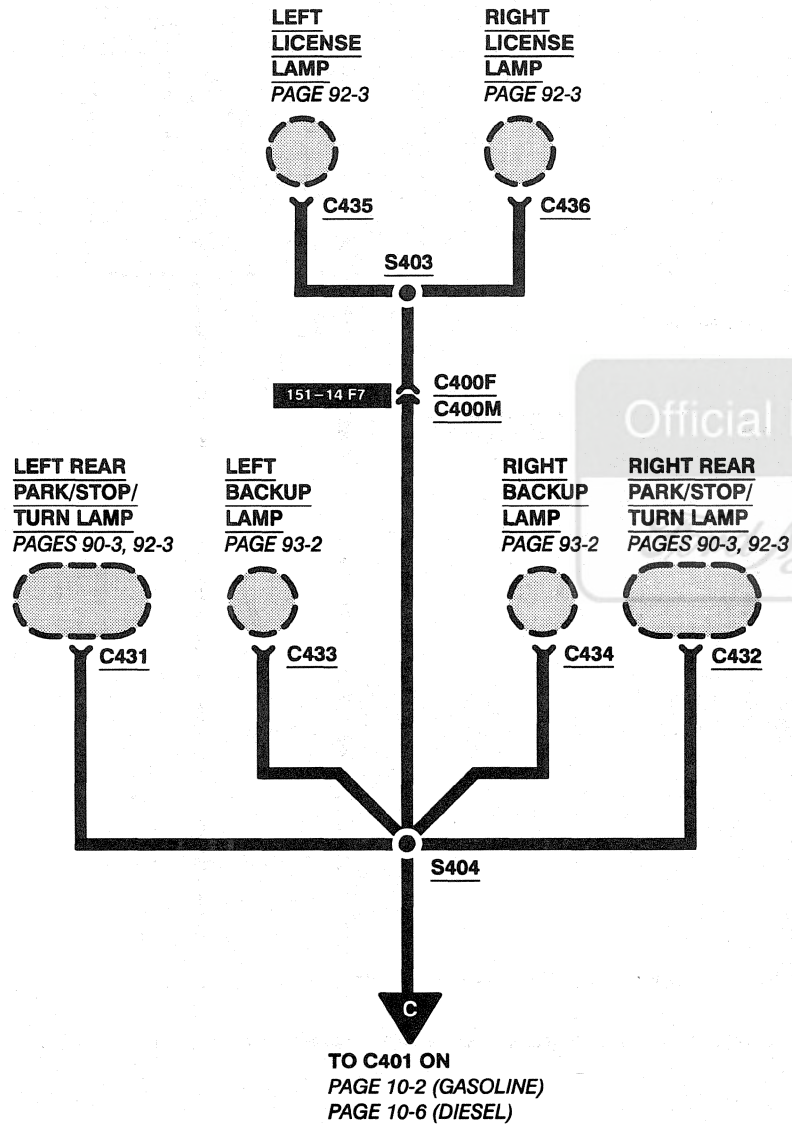
# 10-7 GROUNDS

1997 F-250 HD/350/SUPER DUTY

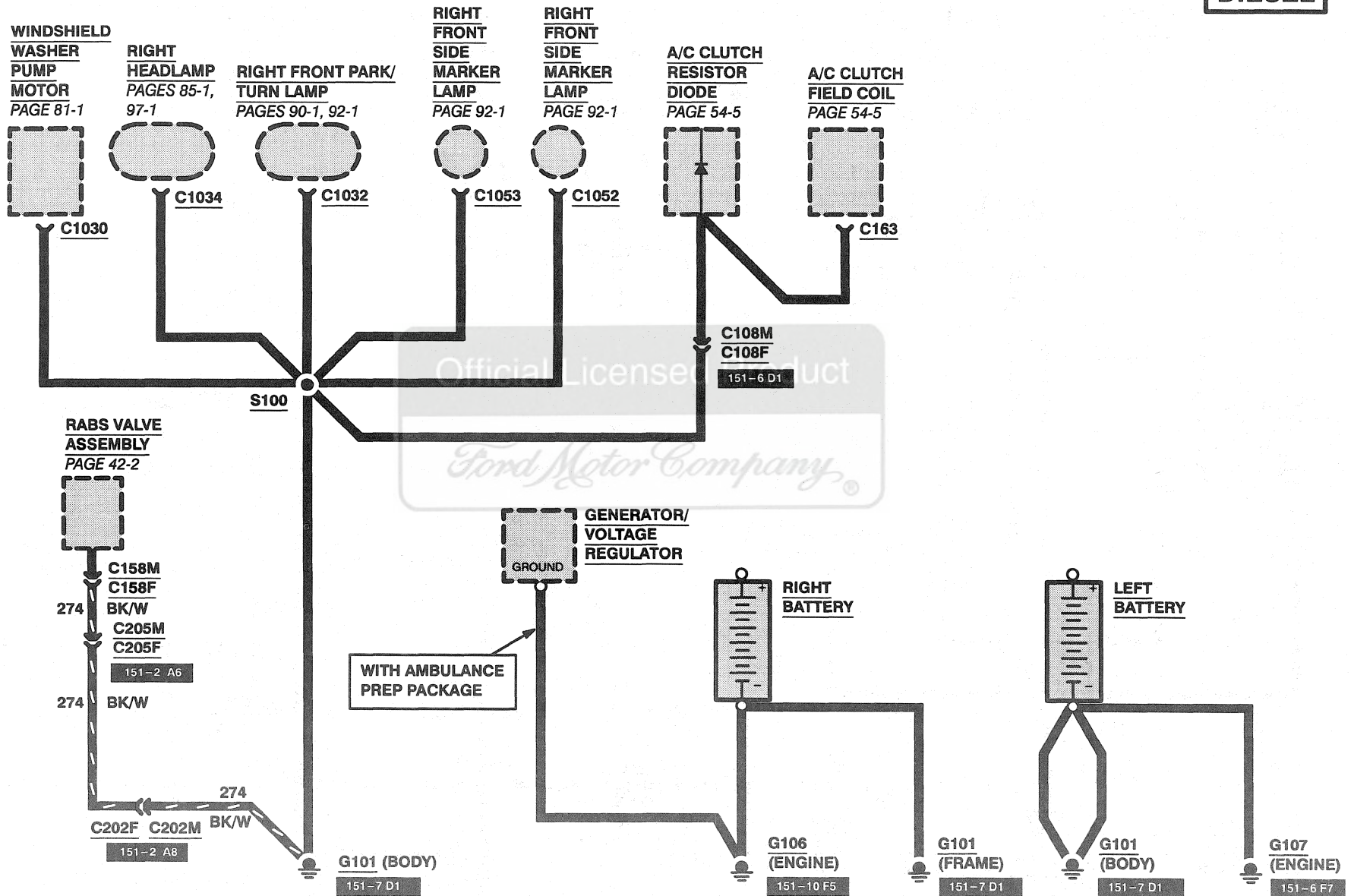
All circuits are 57 (BK) unless otherwise noted.

STYLE SIDE  
FLARE SIDE

F350 DUAL REAR WHEEL



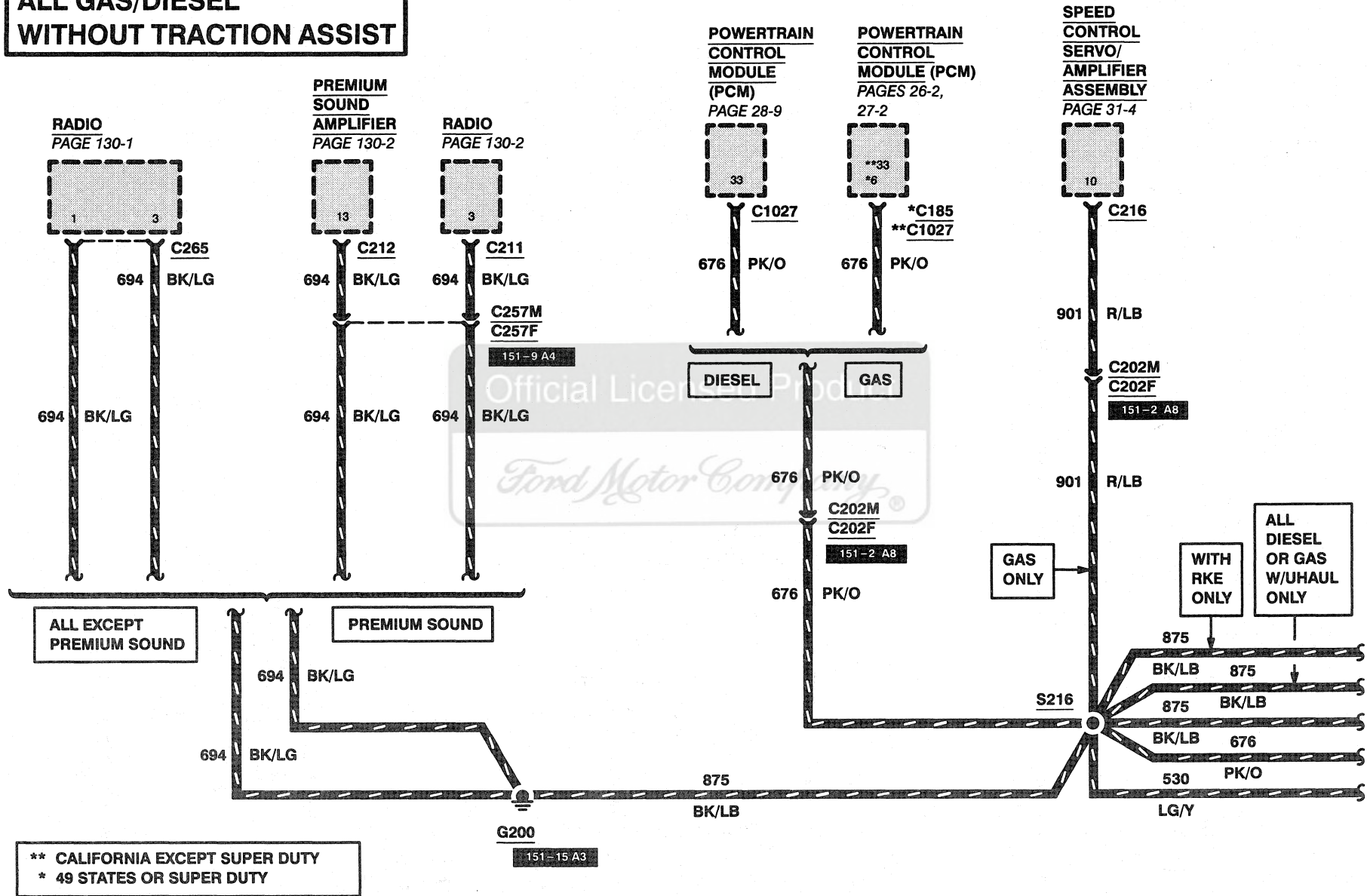
**DIESEL**

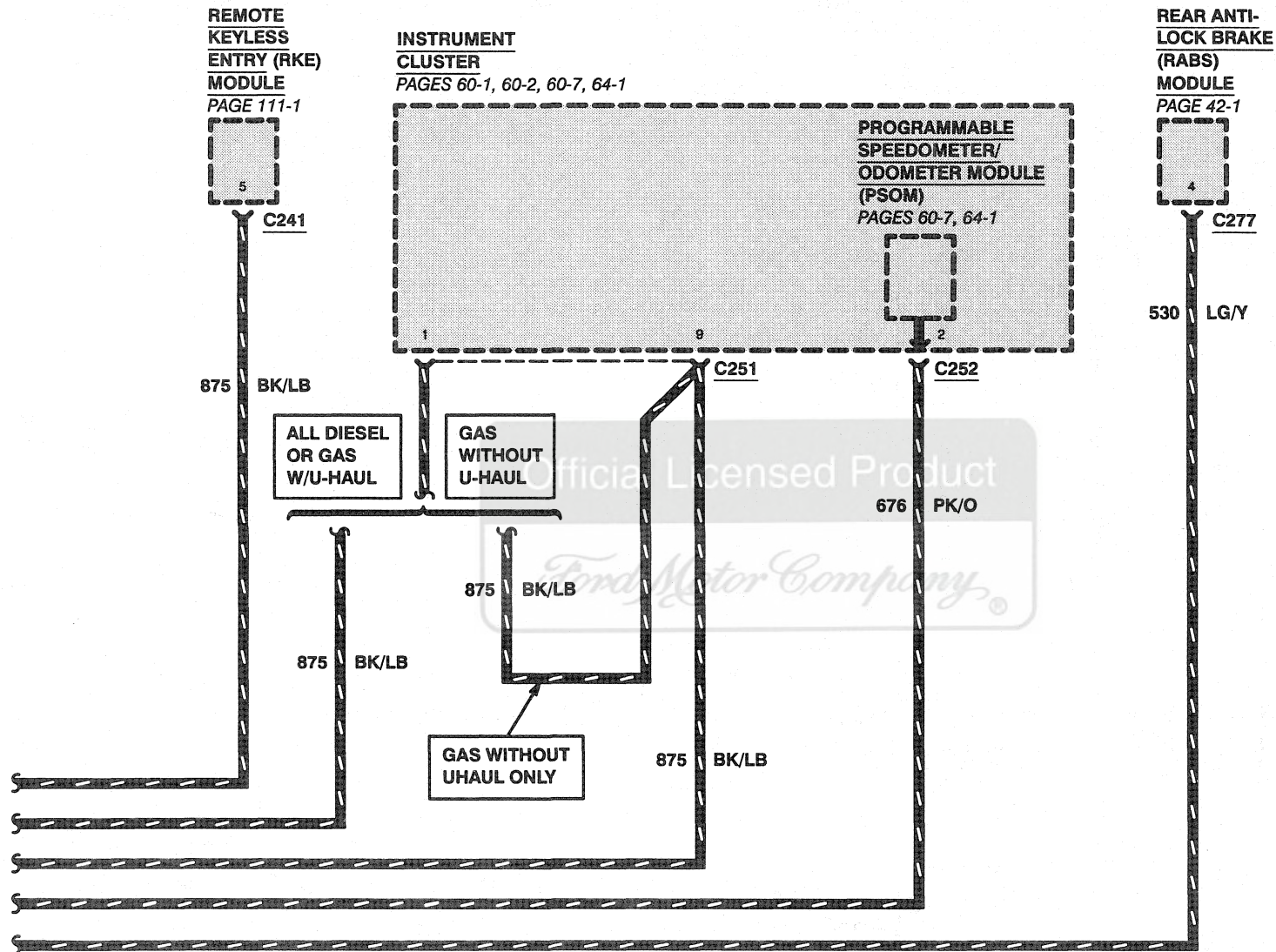


# 10-9 GROUNDS

1997 F-250 HD/350/SUPER DUTY

## ALL GAS/DIESEL WITHOUT TRACTION ASSIST

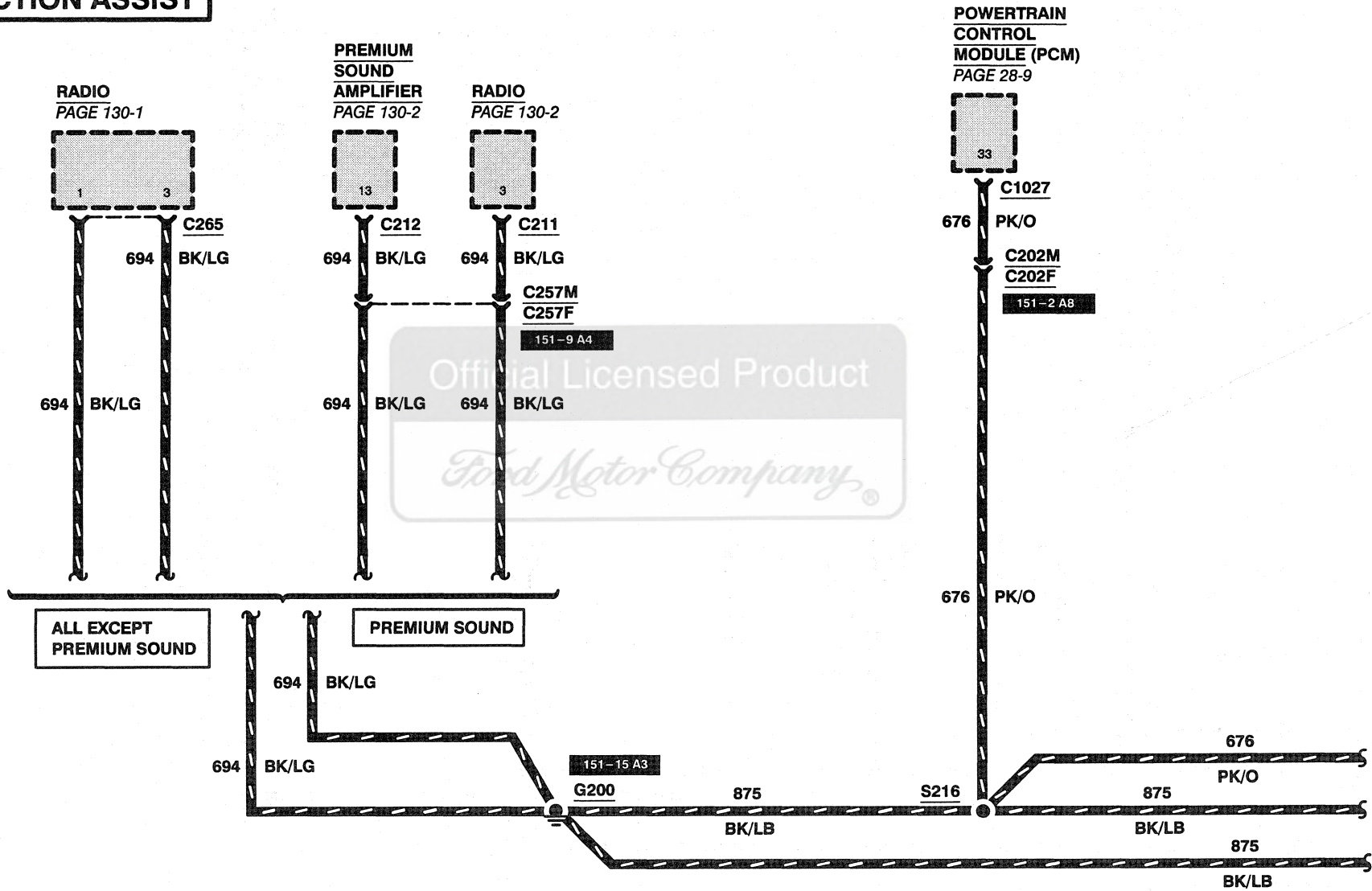




# 10-11 GROUNDS

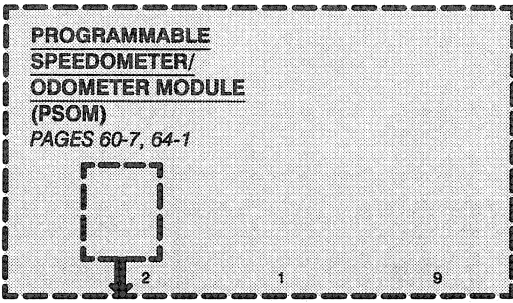
1997 F-250 HD/350/SUPER DUTY

**ALL DIESEL WITH  
TRACTION ASSIST**

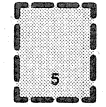




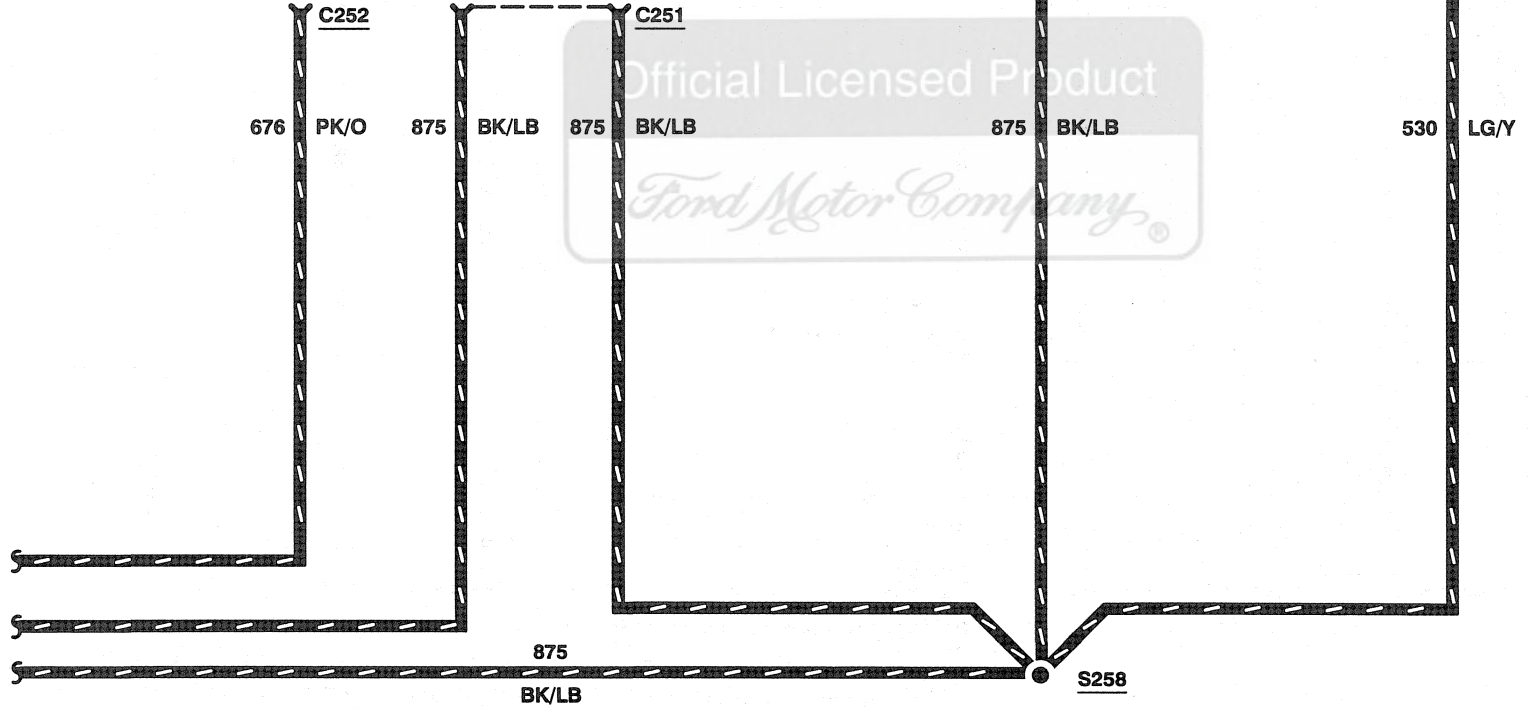
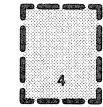
**INSTRUMENT CLUSTER**  
PAGES 60-1, 60-2, 60-7, 64-1



**REMOTE KEYLESS ENTRY (RKE) MODULE**  
PAGE 111-1



**REAR ANTI-LOCK BRAKE (RABS) MODULE**  
PAGE 42-1

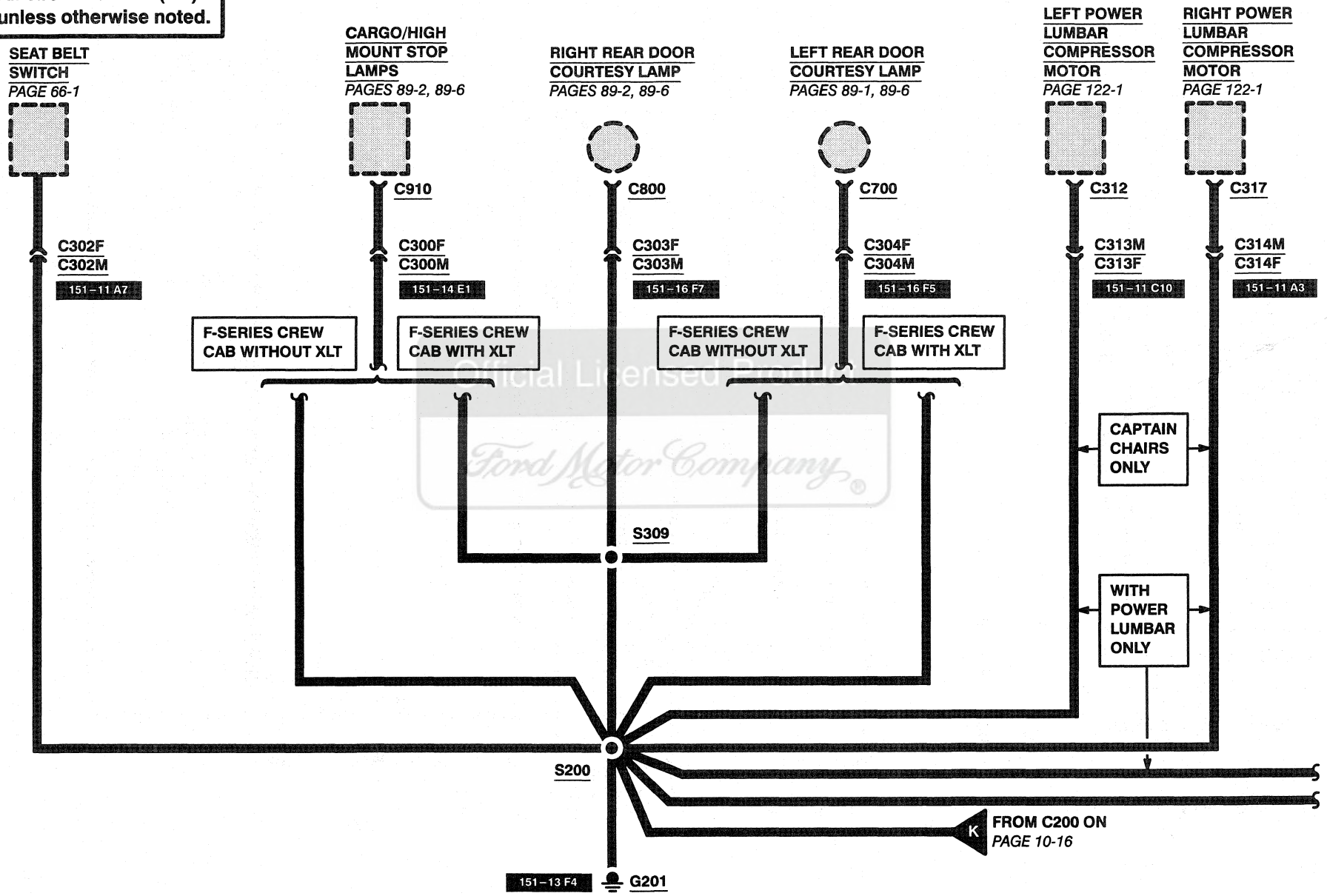


Official Licensed Product  
*Ford Motor Company*

# 10-13 GROUNDS

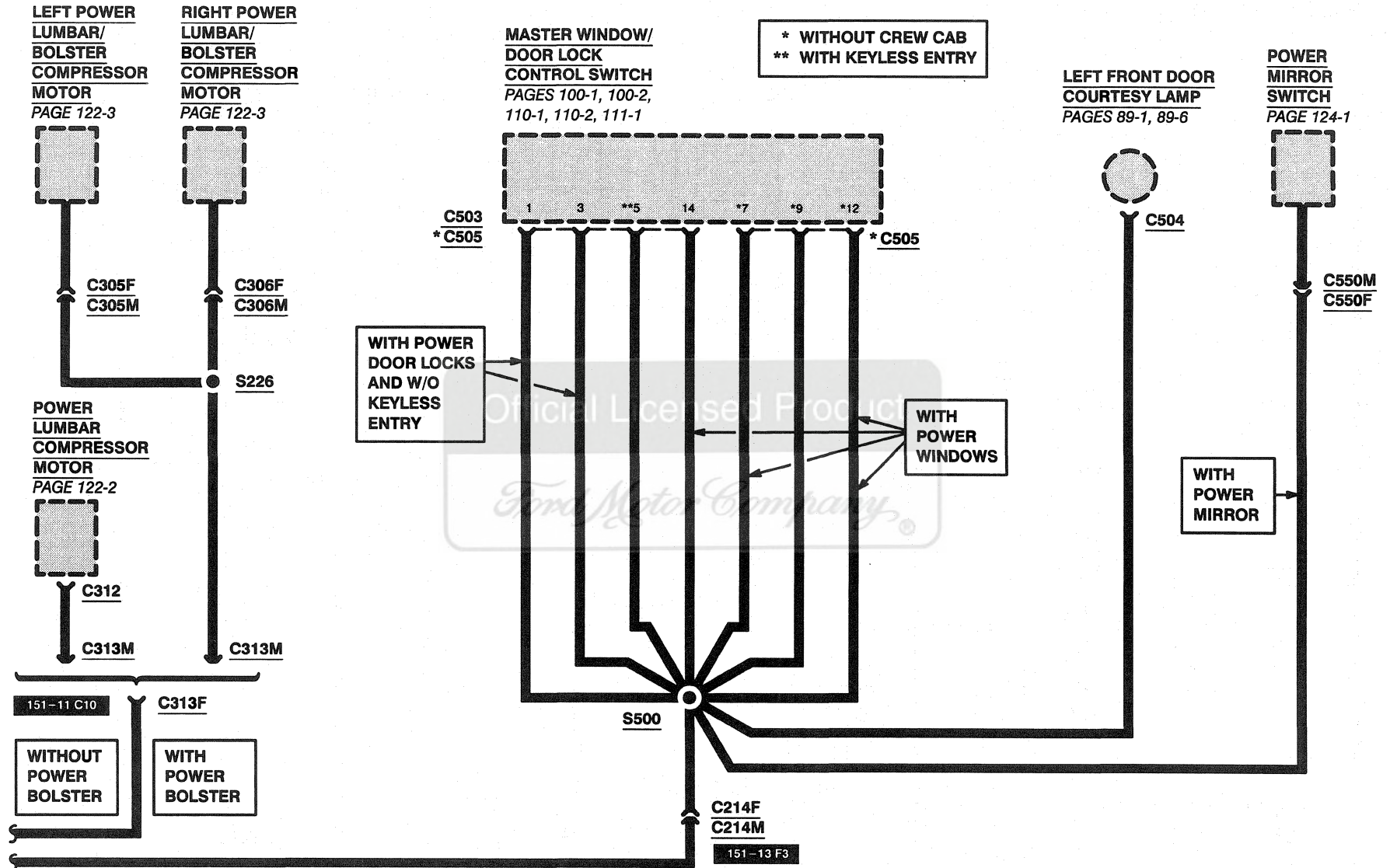
1997 F-250 HD/350/SUPER DUTY

All circuits are 57 (BK) unless otherwise noted.



# GROUNDS 10-14

1997 F-250 HD/350/SUPER DUTY

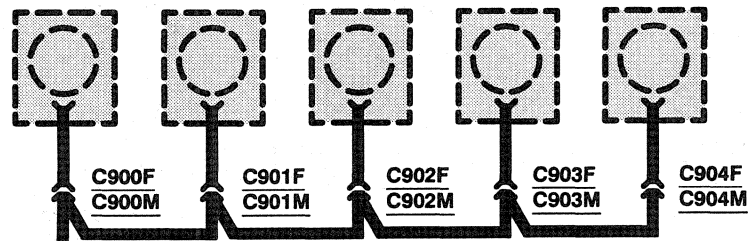


# 10-15 GROUNDS

1997 F-250 HD/350/SUPER DUTY

All circuits are 57 (BK) unless otherwise noted.

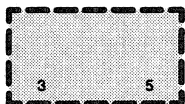
**CAB MARKER LAMPS**  
PAGE 92-4



C201F  
C201M

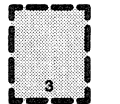
151-13 F6

**WIPER CONTROL MODULE**  
PAGE 81-1



C224

**RIGHT FRONT WINDOW/DOOR LOCK CONTROL SWITCH**  
PAGE 111-1



C603

**RIGHT FRONT DOOR COURTESY LAMP**  
PAGES 89-1, 89-4



C606

S602

C228F  
C228M

151-13 A8

W/REMOTE KEYLESS ENTRY ONLY

TRAILER GROUND FEED

206 W

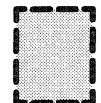
C210F  
C210M

151-12 F2

WITH TRAILER TOW ONLY

DIESEL ONLY

**AUXILIARY POWER SOCKET**  
PAGE 44-1



C294

C204M  
C204F

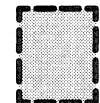
**ASHTRAY ILLUMINATION**  
PAGE 71-1



C234

C293

**BLOWER MOTOR RESISTOR**  
PAGES 53-2, 54-2, 54-4



C169

C203F  
C203M

151-13 A7

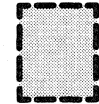
**DATA LINK CONNECTOR (DLC)**

151-9 E1

4

C227

**GLOVE COMPARTMENT LAMP**  
PAGES 89-1, 89-5, 111-5



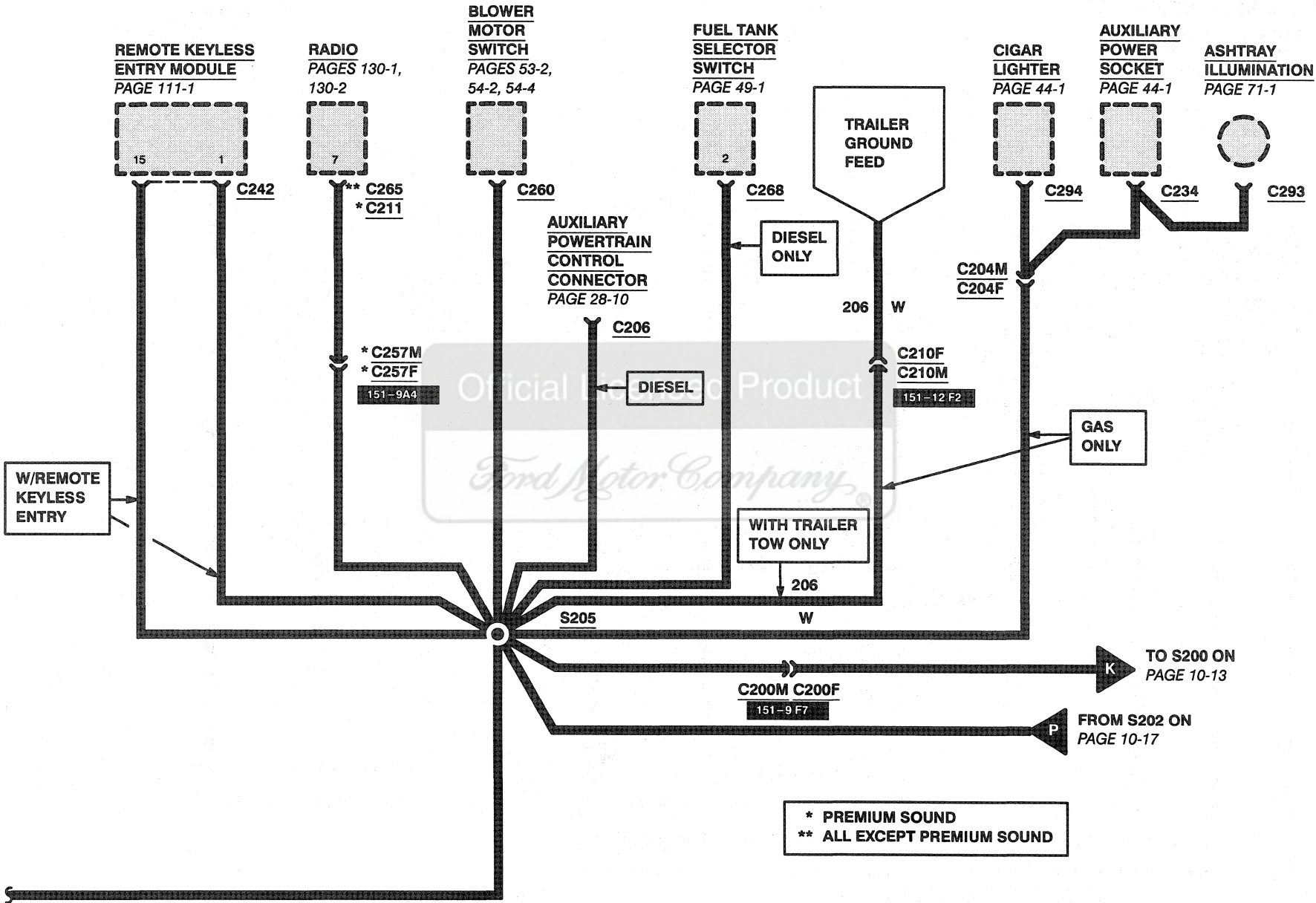
C292

S203

WITH CAB MARKER LAMPS

# GROUNDS 10-16

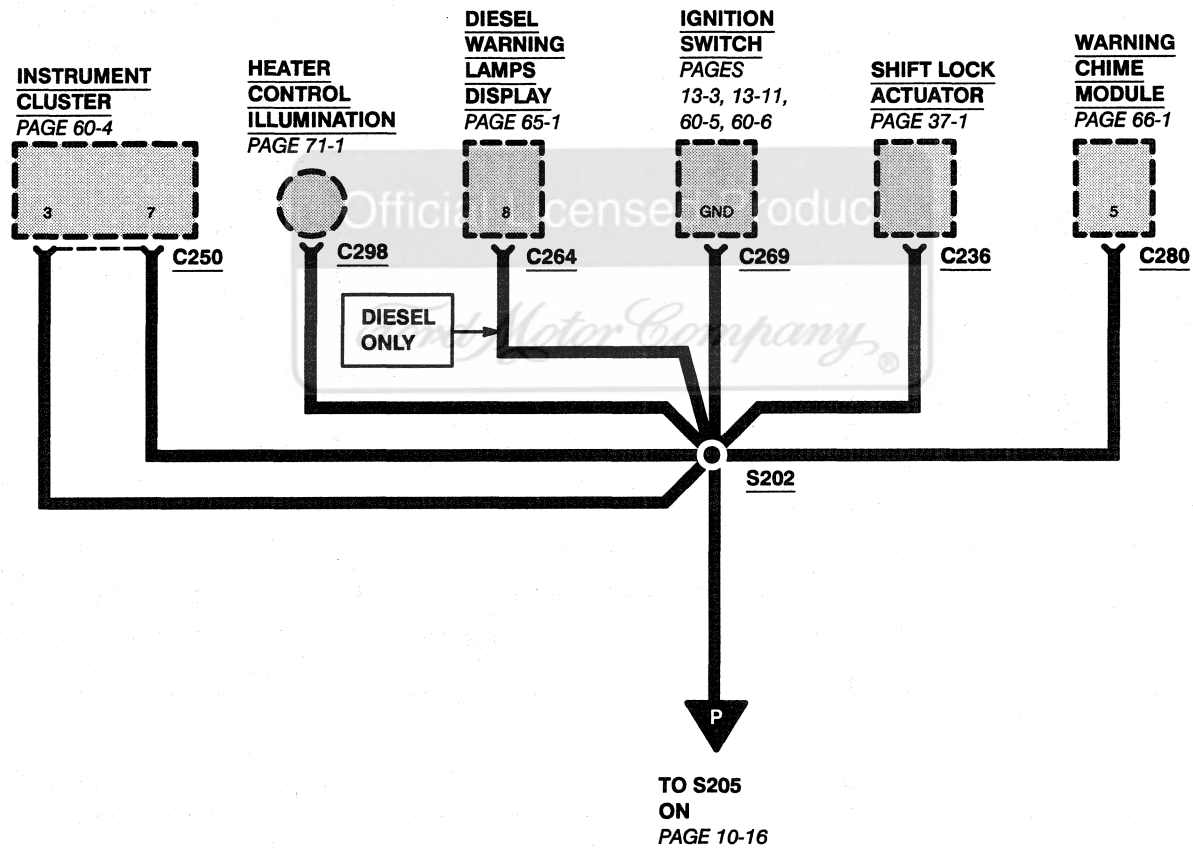
1997 F-250 HD/350/SUPER DUTY



# 10-17 GROUNDS

1997 F-250 HD/350/SUPER DUTY

All circuits are 57 (BK)  
unless otherwise noted.



# NOTES 10-18

1997 F-250 HD/350/SUPER DUTY

Official Licensed Product

*Ford Motor Company*

# 11-1 FUSE PANEL/CIRCUIT PROTECTION

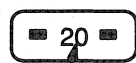
1997 F-250 HD/350/SUPER DUTY

## CIRCUIT PROTECTION DEVICES

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

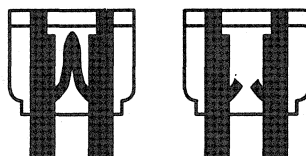
### BLADE TYPE FUSE

TOP VIEW



AMPERE RATING

SIDE VIEW



GOOD FUSE

BLOWN FUSE

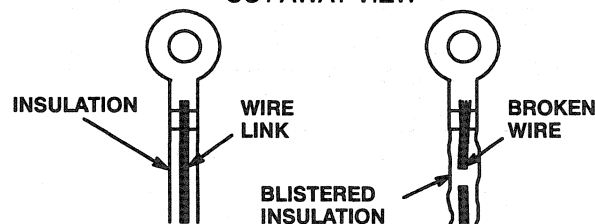
Blade type fuses have a transparent plastic housing. To check a fuse, pull it from the fuse panel and look at the fuse element through the housing. Always replace a blown fuse with a new fuse that has the same ampere rating.

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
3	Violet
4	Pink
5	Tan
10	Red
15	Light Blue
20	Yellow
25	Natural
30	Light Green

### FUSIBLE LINK

CUT-AWAY VIEW



GOOD LINK

BLOWN LINK

Fusible links are short lengths of wire that are smaller in diameter than the wires they are protecting. Fusible link wire is covered with a special thick, non-flammable insulation. An overload condition causes the insulation to blister. If the overload condition continues, the wire link will melt. To check a fusible link, look for blistered insulation. If the insulation is okay, pull lightly on the wire. If the fusible link stretches, the wire has melted.

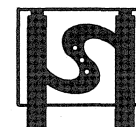
When replacing fusible links, first cut the protected wire where it is connected to the fusible link. Then, tightly crimp or solder the new link to the protected wire.

Fusible links are often identified by color coding of the insulation, as shown here:

FUSIBLE LINK COLOR CODING	
WIRE LINK SIZE	INSULATION COLOR
20 GA	Blue
18 GA	Brown or Red
16 GA	Black or Orange
14 GA	Green
12 GA	Gray

### FUSIBLE LINK CARTRIDGE

SIDE VIEW

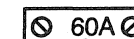


GOOD



BLOWN

TOP VIEW



AMPERE RATING

Fusible link cartridges have a transparent colored plastic housing. To check a fusible link cartridge, look at the fuse element through the side of the housing.

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

The ampere rating of a fusible link cartridge can also be determined by following the color code shown here:

FUSIBLE LINK CARTRIDGE COLOR CODING	
AMPERE RATING	HOUSING COLOR
30	Light Green
40	Amber
50	Red
60	Blue

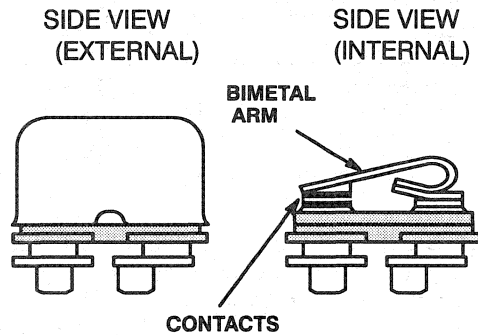


## CIRCUIT BREAKER

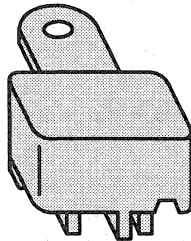
Some circuits are protected by circuit breakers (abbreviated "c. b." in fuse chart). They can be Fuse Panel mounted or in-line. Like fuses, they are rated in amperes.

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, the contacts open and current flow is broken. A circuit breaker can be the cycling or non-cycling type.

### FUSE PANEL MOUNTED CYCLING TYPE

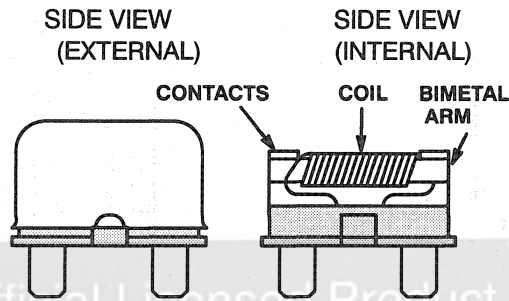


### IN-LINE MOUNTED CYCLING TYPE

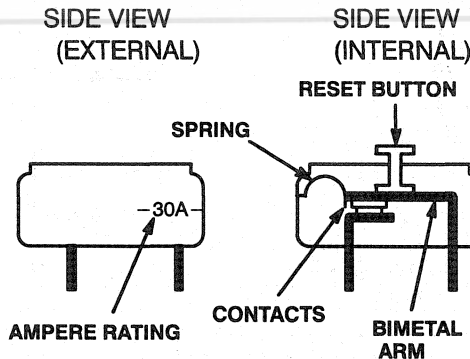


In the cycling type, the bimetal arm cools and straightens out. This cycle repeats as long as the overcurrent exists and power is applied.

### FUSE PANEL MOUNTED NON-CYCLING TYPE



### FUSE PANEL MOUNTED MANUAL RESET TYPE



Two types of non-cycling circuit breakers are used: one is reset by removing power from the circuit, and the other is reset by depressing a reset button.

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.

## DIODE

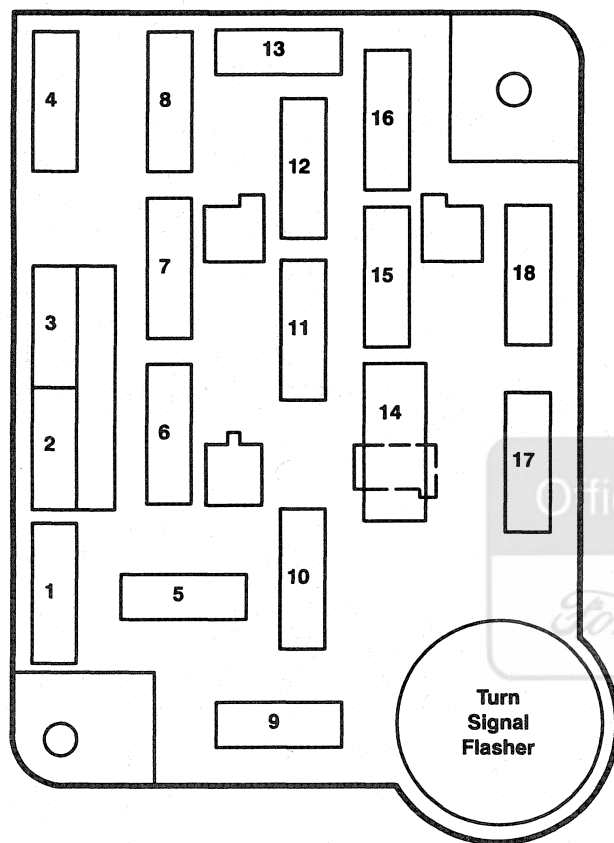


Diodes are electrical devices that permit current to flow in one direction only. The current flows in the direction indicated by the arrow.

# 11-3 FUSE PANEL/CIRCUIT PROTECTION

1997 F-250 HD/350/SUPER DUTY

## INSTRUMENT PANEL FUSE PANEL



Fuse Value Amps	Color Code
3	Violet
4	Pink
5	Tan
10	Red
15	Light Blue
20	Yellow
25	Natural
30	Light Green

### Power Distribution

The Generator and Battery are connected together at the Starter Relay hot terminal. Other circuits originate at the Starter Relay hot terminal and are protected by fuse links. Low power circuits are also protected by fuses.

The Ignition Switch and Main Light Switch are powered at all times, as are fuses 1, 4, 8, 12 and 16. The other fuses are powered through the Ignition Switch or the Main Light Switch.

Fuse Position	Amps	Circuits Protected
1	30	Air Conditioner/Heater
2	30	Interval Wiper/Washer
3	3	Idle Position Switch (Diesel Only)
4	15	Exterior Lamps, Trailer Marker Lamps Relay, Warning Chime, Instrument Illumination, Keyless Entry, Anti-Theft, Trailer Brake Control Unit
5	—	Not Used
6	15	Fuel Tank Selector (Diesel Only), Anti-Theft, Keyless Entry, Air Conditioner/Compressor Clutch
7	15	Turn Lamps
8	15	Courtesy Lamps, Engine Compartment Lamp, Power Mirrors, Vanity Mirrors, Speedometer Memory, Warning Chime, Keyless Entry
9	25	Power Point
10	4	Instrument Illumination
11	15	Radio
12	20 c.b.	Power Door Lock, Power Lumbar, Anti-Theft, Keyless Entry
13	15	Stop and Hazard Lamps, Stop Sense For: Anti-lock Brakes, Speed Control, PCM, Shift Lock
14	20 c.b.	Power Windows
15	20	Anti-lock Brakes
16	15	Cigar Lighter, Data Link Connector (Diesel Only)
17	10	Trans Control Indicator Lamp and Switch, Brake Fluid Level Switch, Warning Chime, Diesel Warning Lamps Display, Fuel Water Switch, Low Vacuum Warning Switch, Instrument Cluster, Switch Lamps
18	10	Speedometer, Day/Night Mirror, Auxiliary Powertrain Control (Diesel Only), Speed Control (Diesel Only), Shift Lock

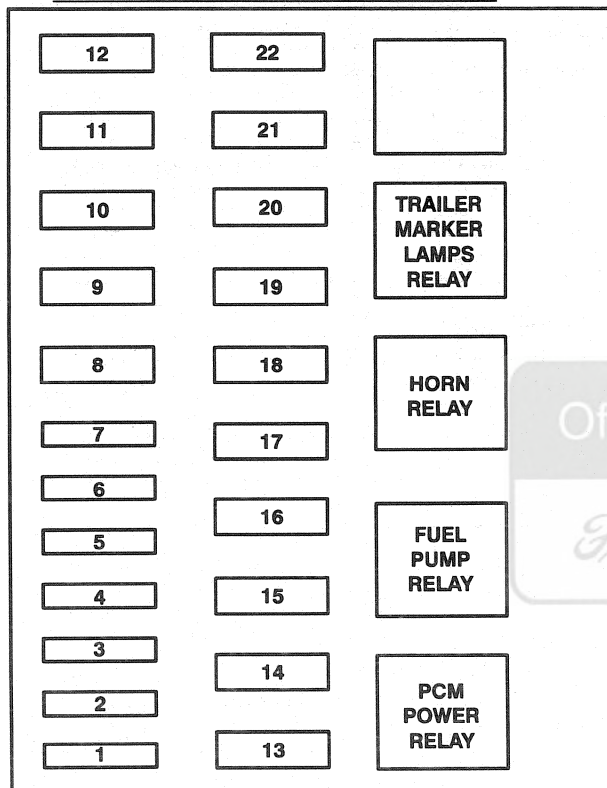
# FUSE PANEL/CIRCUIT PROTECTION 11-4

1997 F-250 HD/350/SUPER DUTY

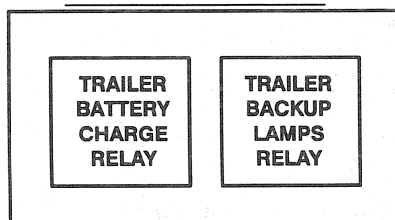
**GASOLINE**

\* CALIFORNIA EXCEPT SUPER DUTY

## ENGINE COMPARTMENT FUSE BOX



## TRAILER RELAY BOX



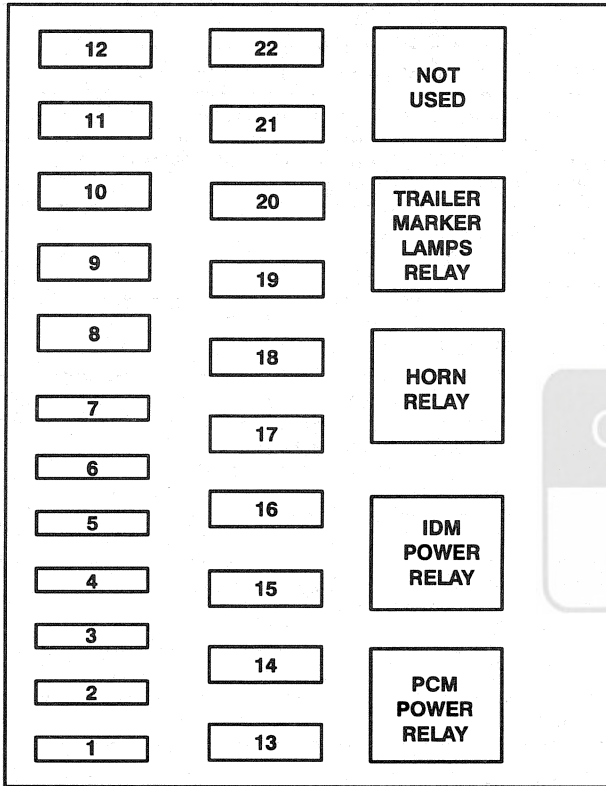
Fuse Position	Amps	Circuits Protected
1	20	Radio
2	—	(Not Used)
3	30	Horn Relay, Daytime Running Lamps, Headlamp Flash-to-Pass
4	25	Trailer Marker Lamps Relay, Trailer Backup Lamps Relay
5	15	Heated Oxygen Sensor (HO2S), Backup Lamps, Trailer Battery Charge Relay, Daytime Running Lamps, Speed Control
6	10 (5*)	Trailer Right Stop/Turn Lamps
7	10 (5*)	Trailer Left Stop/Turn Lamps
Maxi-Fuse Position	Amps	Circuits Protected
8	—	(Not Used)
9	30	PCM Power Relay, Powertrain Control Module (PCM)
10	20	See Fuses 15 and 18, Starter Relay
11	—	(Not Used)
12	20	Diode Current Flows From Fuse 22 to PCM Power Relay
13	50	See Fuses 5, 9, and 13
14	—	(Not Used)
15	50	See Fuses 1 and 7 and Fuse 5
16	20	Fuel Pump Relay
17	50	Generator charge indicator, Instrument Cluster. See Fuses 2, 6, 11, 17 and Maxi-fuse 22. Also see Circuit Breaker 14.
18	30	Trailer Battery Charge Relay
19	40	Main Light Switch, Headlamps {Fog Lamp Indicator Lamp, Fog Lamp Relay Coil (Lighting Only)}
20	50	See Fuses 4, 8 and 16. Also see Circuit Breaker 12.
21	30	Trailer Electronic Brake Control Unit
22	20	Ignition system, PCM Power Relay Coil

# 11-5 FUSE PANEL/CIRCUIT PROTECTION

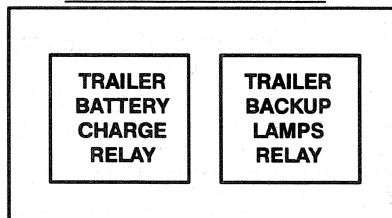
1997 F-250 HD/350/SUPER DUTY

## DIESEL

### ENGINE COMPARTMENT FUSE BOX



### TRAILER RELAY BOX



Fuse Position	Amps	Circuits Protected
1	20	Radio
2	15	Ambulance (Diesel 200 amp Generator/Voltage Regulator Only)
3	30	Horn Relay, Daytime Running Lamps, Headlamp Flash-to-Pass
4	25	Trailer Marker Lamps Relay, Trailer Backup Lamps Relay
5	15	Backup Lamps, Daytime Running Lamps, Trailer Battery Charge Relay
6	10	Trailer Right Stop/Turn Lamps
7	10	Trailer Left Stop/Turn Lamps
Maxi-Fuse Position	Amps	Circuits Protected
8	30	Injector Driver Module (IDM) Relay
9	30	Powertrain Control Module (PCM), PCM Power Relay, Electronic Transmission Control, Injector Pressure Regulator, Injector Driver Module
10	20	See Fuses 15 and 18, Starter Relay
11	—	(Not Used)
12	20	Diode Current Flows from Fuse 22 to PCM Power Relay
13	50	See Fuses 5, 9, and 13
14	—	(Not Used)
15	50	See Fuses 1 and 7 and Fuse 5
16	—	(Not Used)
17	50	Generator charge indicator, Instrument Cluster. See Fuses 2, 3, 6, 11, 17 and Maxi-fuse 22. Also see Circuit Breaker 14.
18	30	Trailer Battery Charge Relay
19	40	Main Light Switch, Headlamps
20	50	See Fuses 4, 8 and 16. Also see Circuit Breaker 12.
21	30	Trailer Electronic Brake Control Unit
22	20	Fuel Line Heater, 200 amp Generator/Voltage Regulator, PCM Power Relay Coil, Glow Plug Controller

Official Licensed Product

*Ford Motor Company*

# 12-1 CHARGING SYSTEM

1997 F-250 HD/350/SUPER DUTY

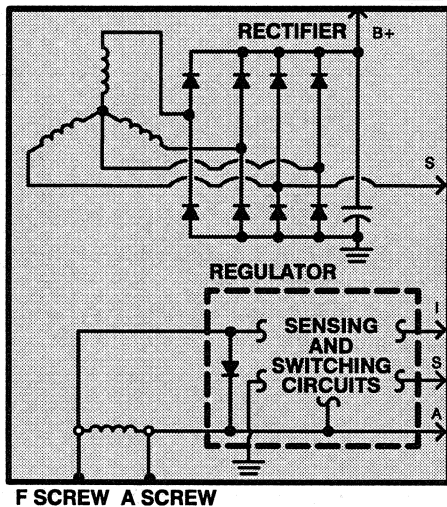
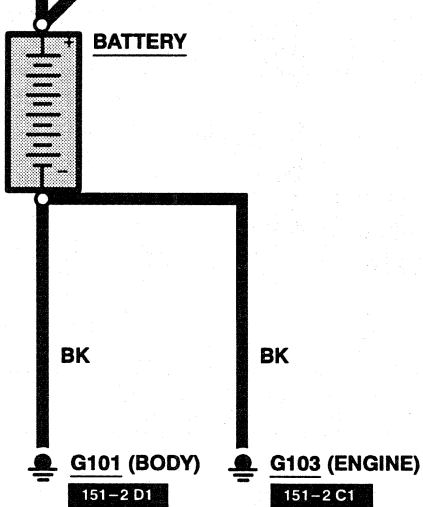
For diagnostic information, refer to section 14-00 of the Service Manual.

## GASOLINE

**STARTER MOTOR RELAY**  
PAGE 20-2

With voltage applied, the generator is activated allowing current to flow from sense A circuit to generator field coil. The 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 the regulator. This voltage (typically half battery voltage), is used by regulator to turn off the indicator lamp.

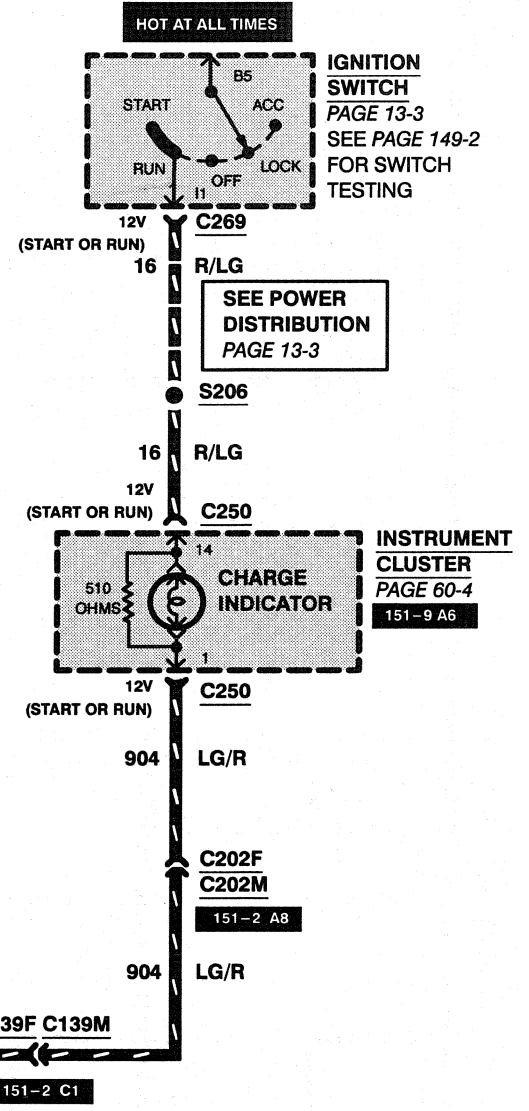
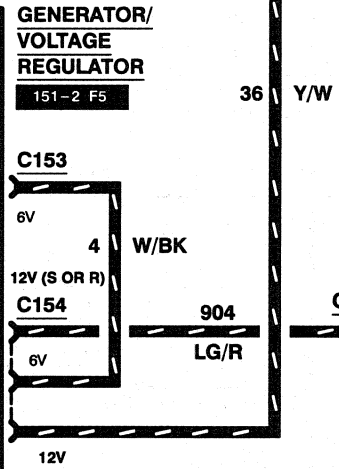
**STARTING SYSTEM**  
PAGE 20-2



12 GA  
FUSE LINK J  
G R A Y

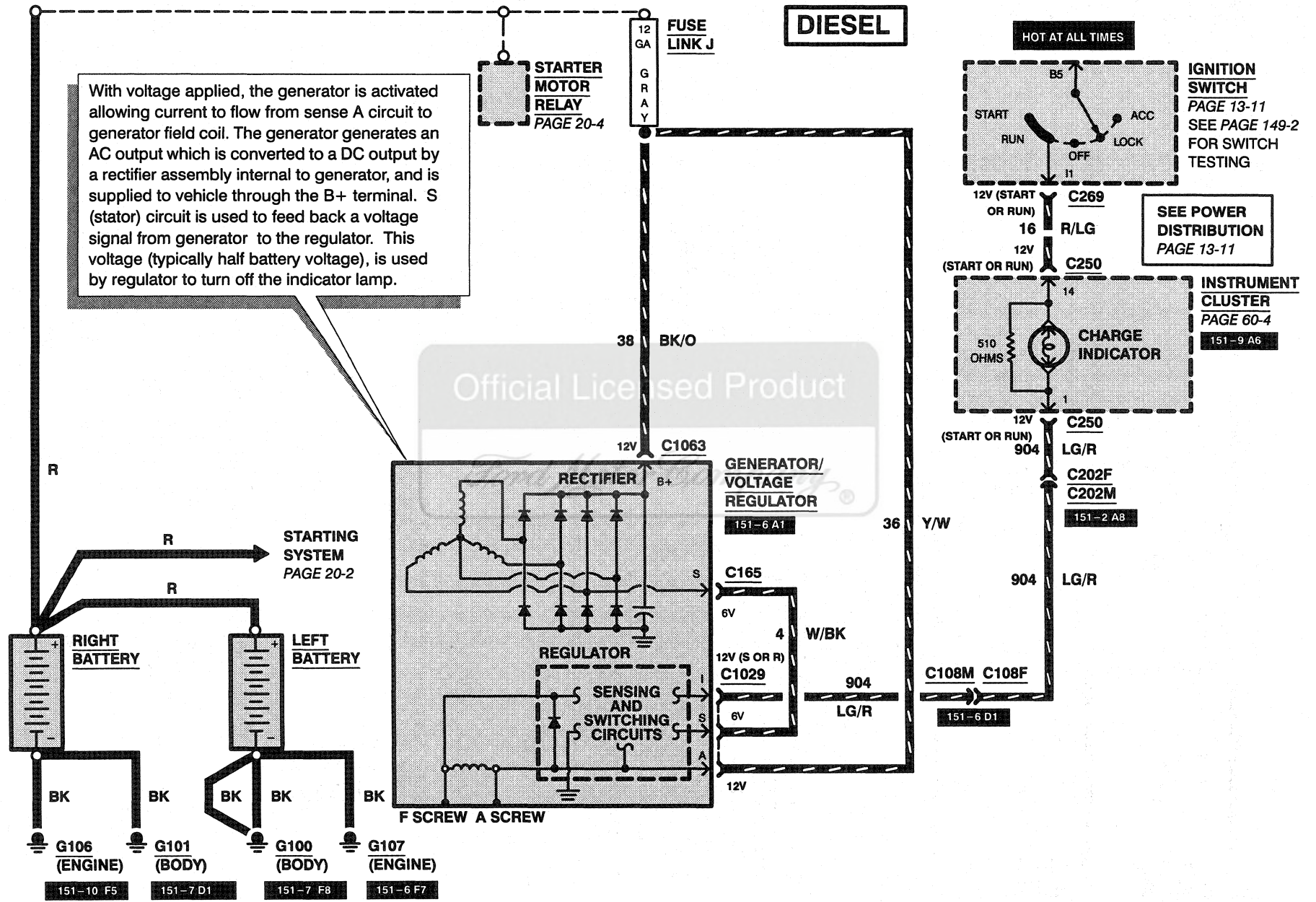
Licensed Product  
Ford Motor Company

12V C1063



# CHARGING SYSTEM 12-2

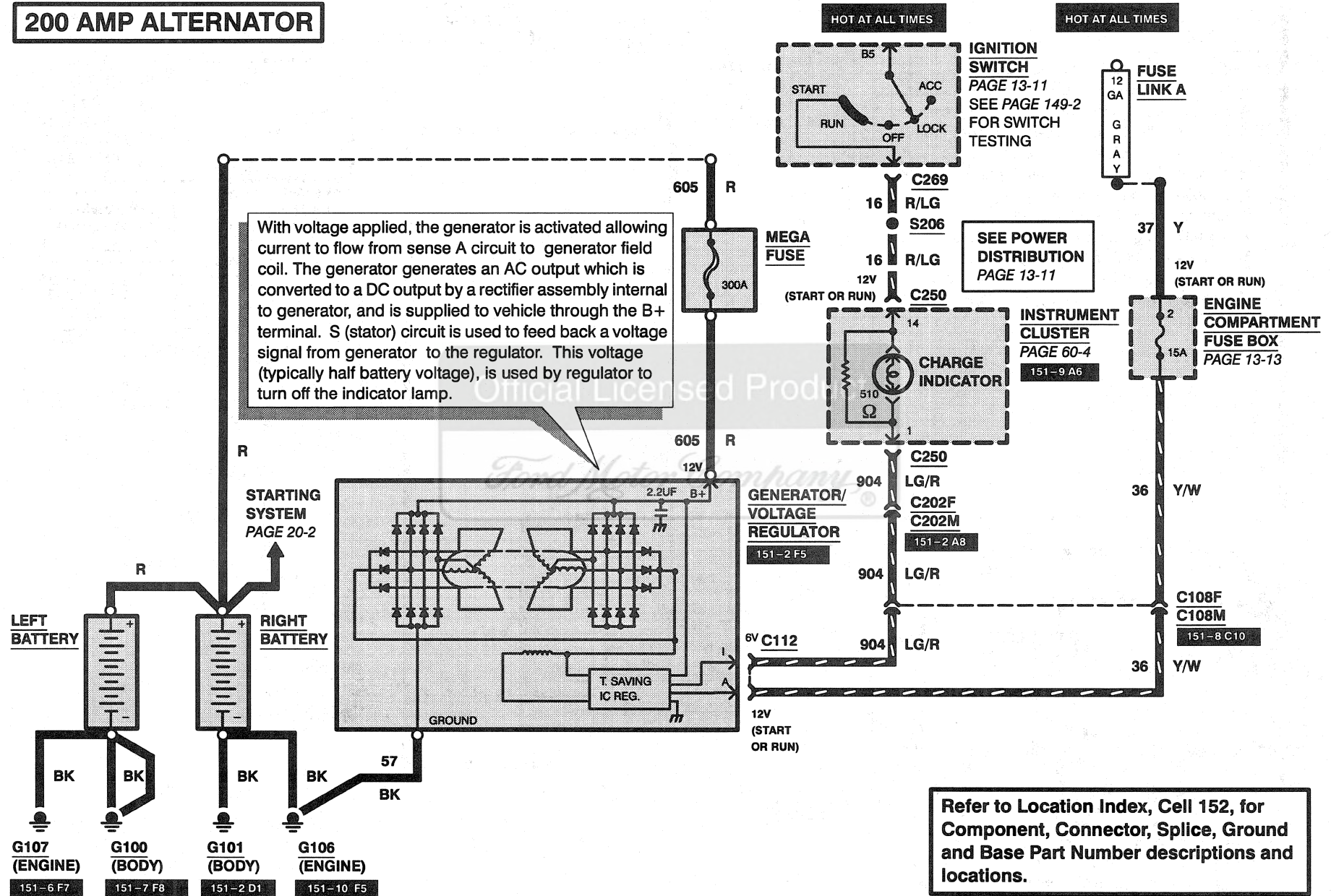
1997 F-250 HD/350/SUPER DUTY



# 12-3 CHARGING SYSTEM

1997 F-250 HD/350/SUPER DUTY

## 200 AMP ALTERNATOR





**CELL 12  
CONNECTOR REFERENCE LIST**

CONNECTOR	SECTION-PAGE
C250	60-9

Official Licensed Product

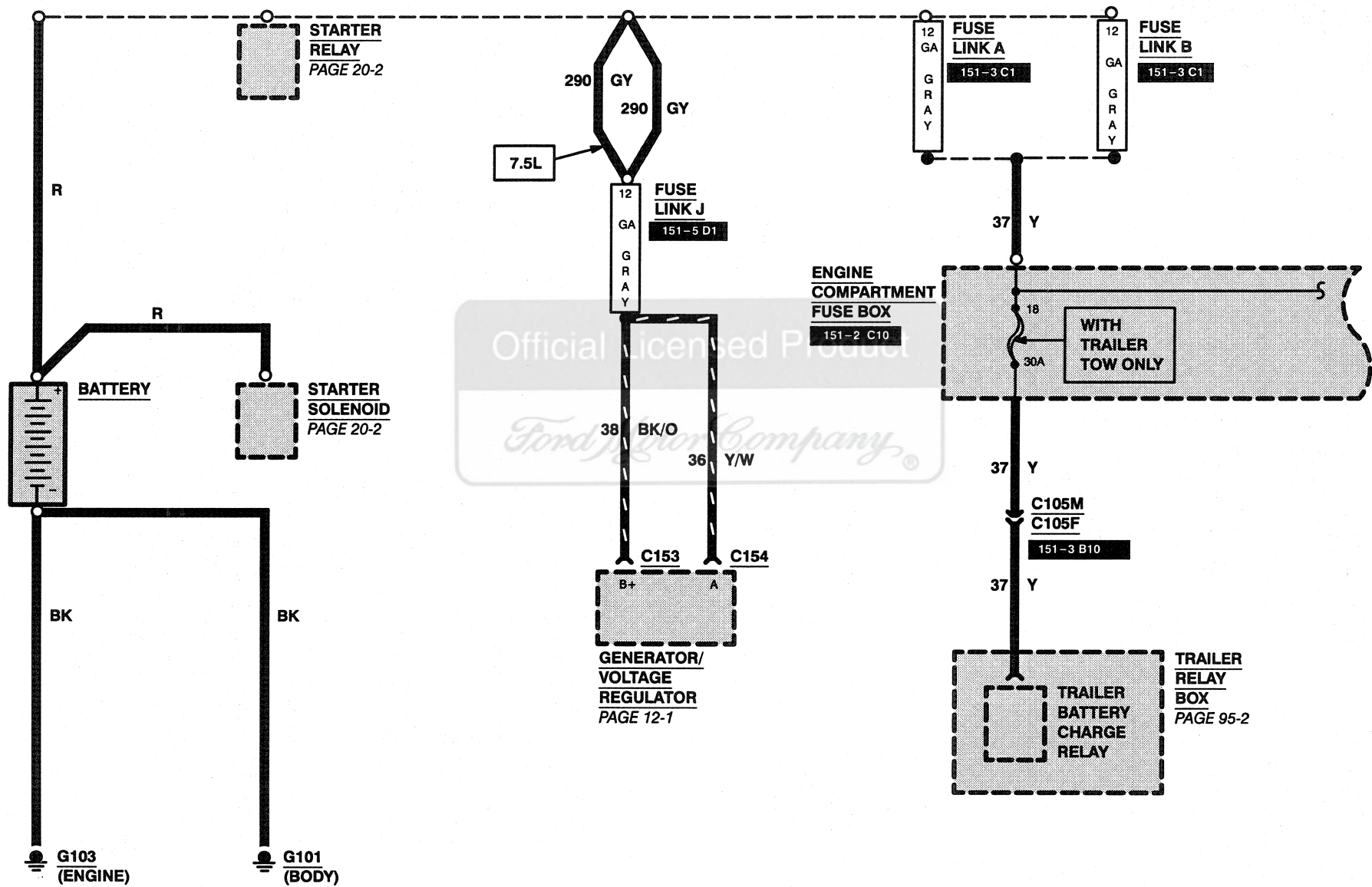
*Ford Motor Company*

# 13-1 POWER DISTRIBUTION

1997 F-250 HD/350/SUPER DUTY

For diagnostic information, refer to section 18-01 of the Service Manual.

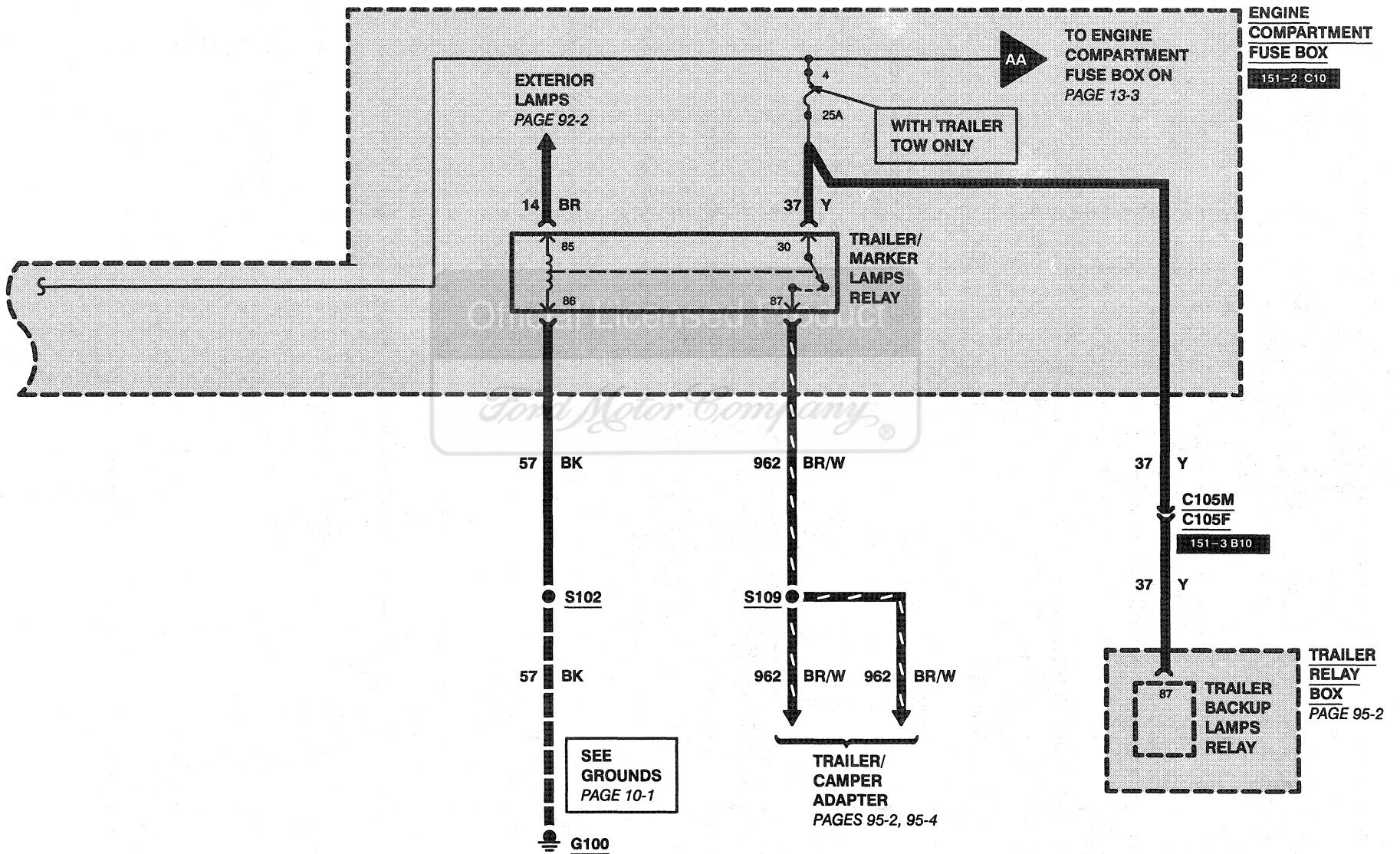
**GASOLINE**



# POWER DISTRIBUTION 13-2

1997 F-250 HD/350/SUPER DUTY

**GASOLINE**



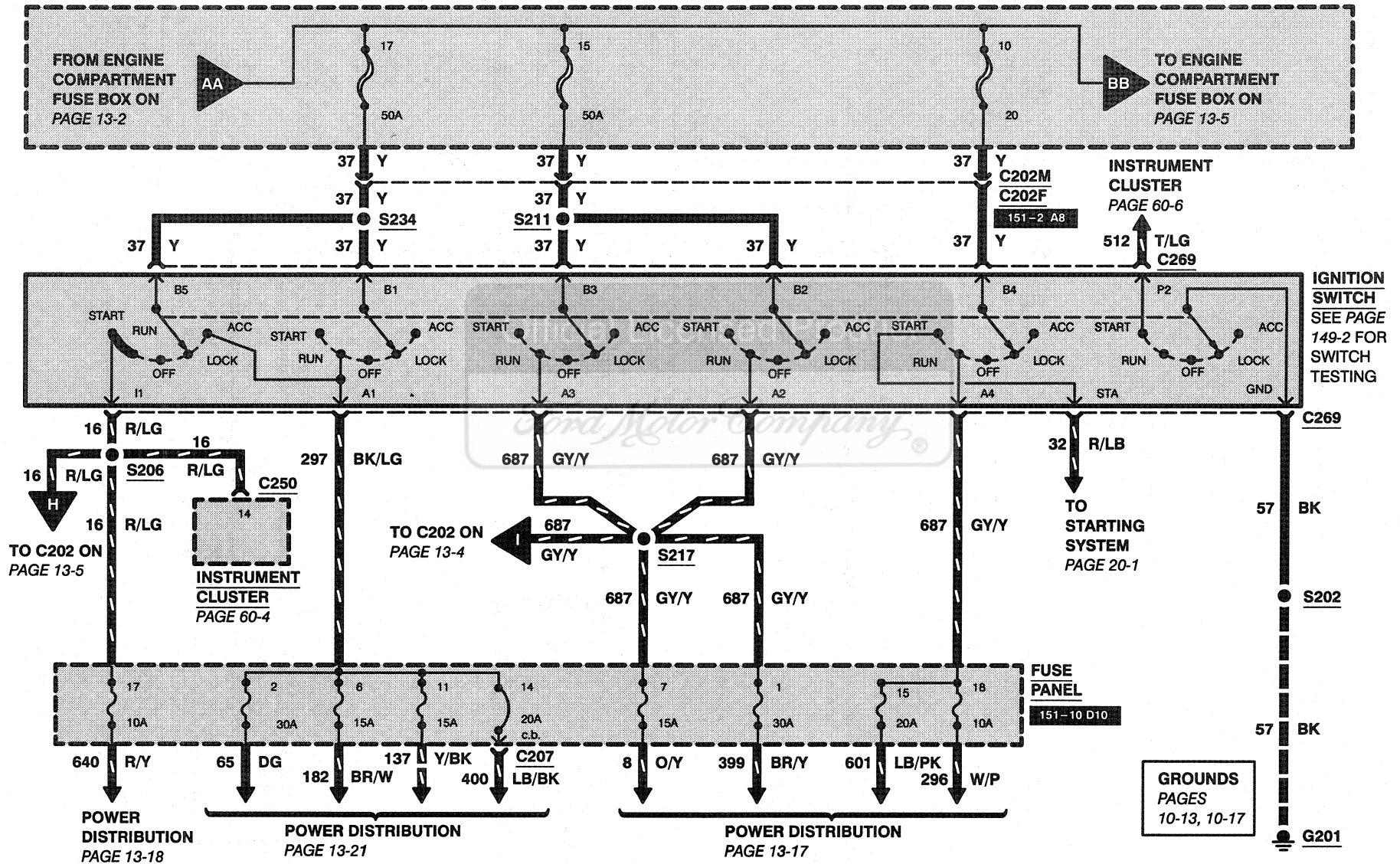
# 13-3 POWER DISTRIBUTION

1997 F-250 HD/350/SUPER DUTY

**GASOLINE**

**ENGINE COMPARTMENT FUSE BOX**

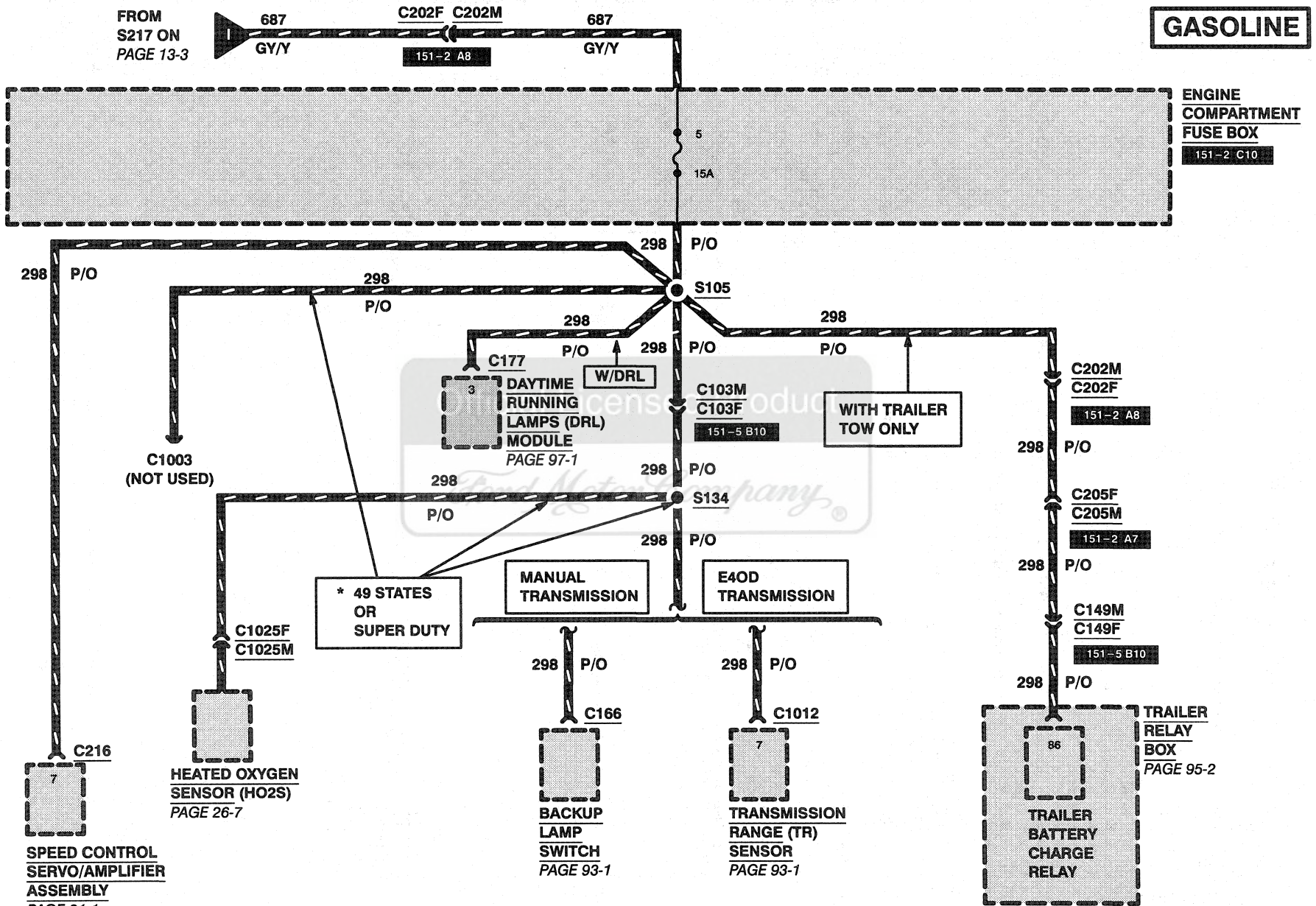
151-2 C10



# POWER DISTRIBUTION 13-4

1997 F-250 HD/350/SUPER DUTY

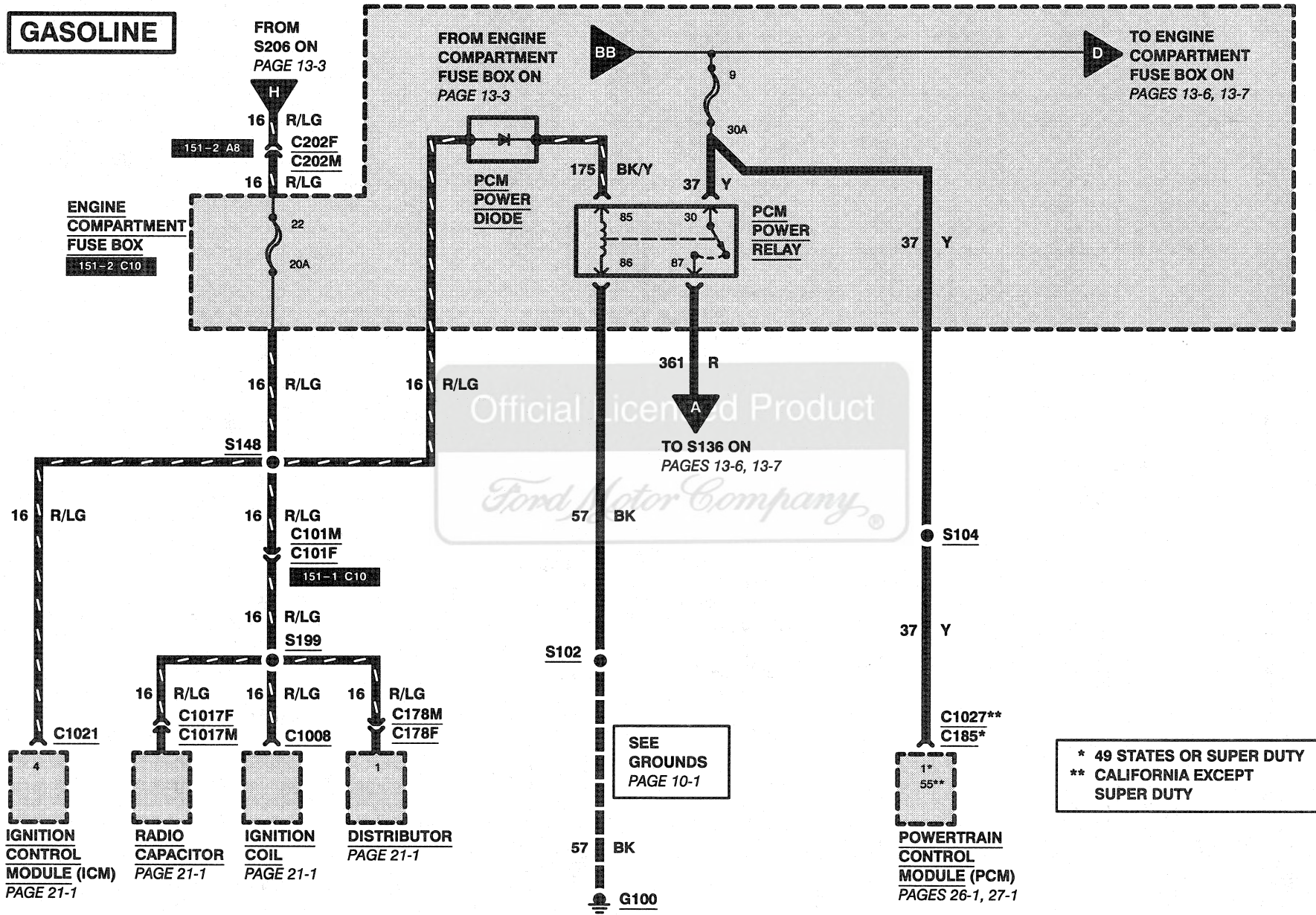
**GASOLINE**



# 13-5 POWER DISTRIBUTION

1997 F-250 HD/350/SUPER DUTY

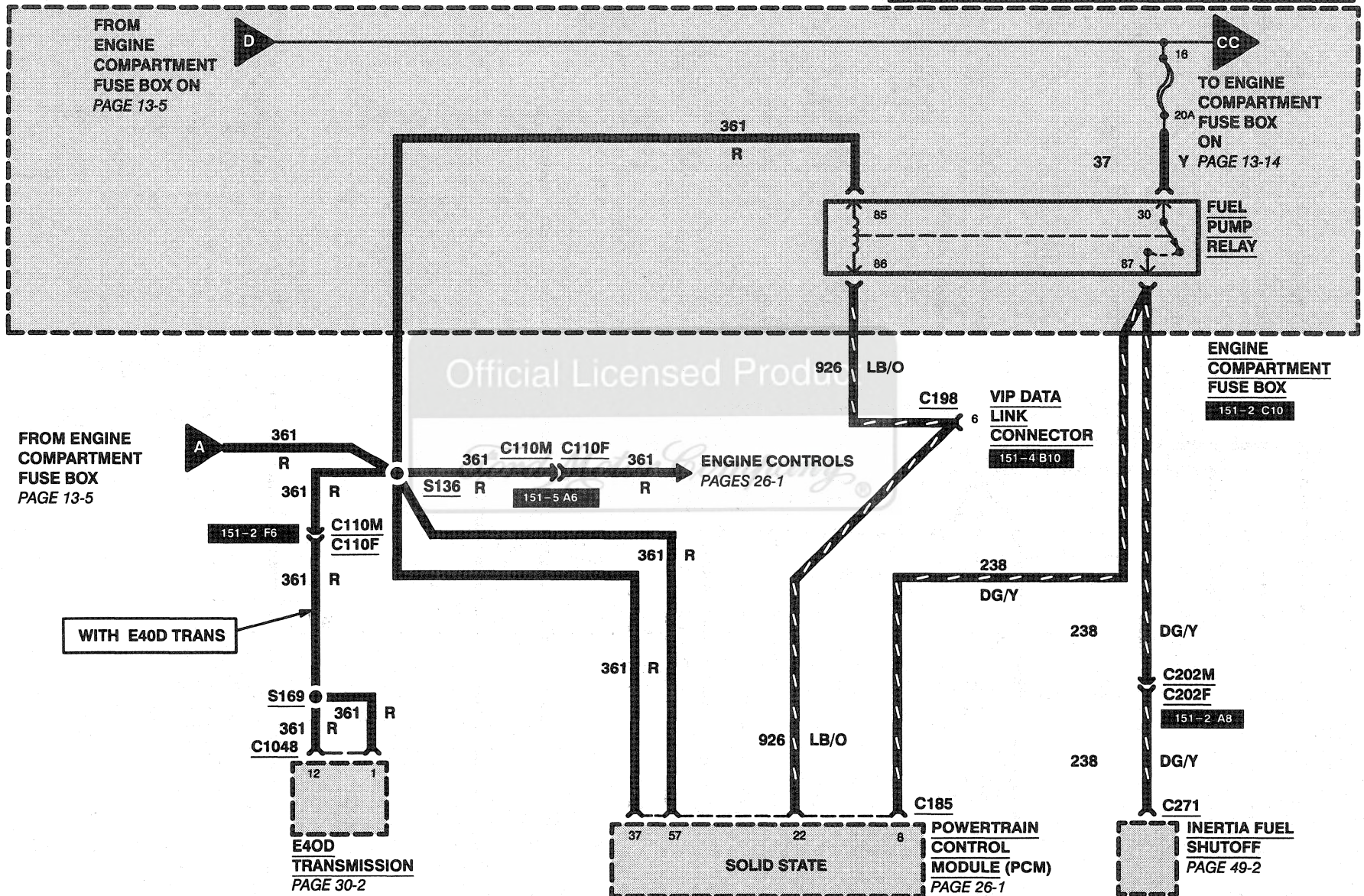
**GASOLINE**



# POWER DISTRIBUTION 13-6

1997 F-250 HD/350/SUPER DUTY

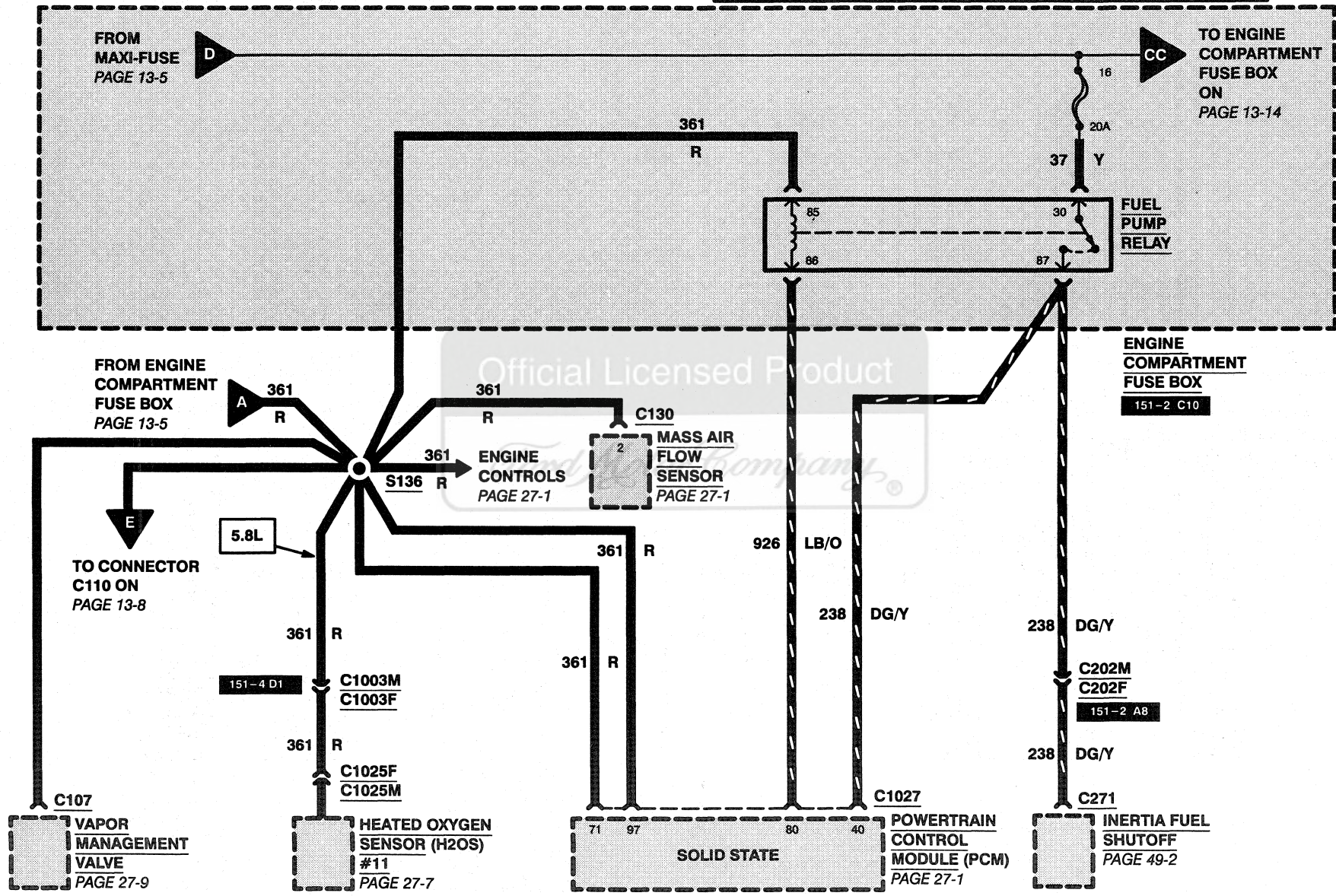
## GAS 49 STATES OR SUPER DUTY



# 13-7 POWER DISTRIBUTION

1997 F-250 HD/350/SUPER DUTY

## GAS CALIFORNIA EXCEPT SUPER DUTY

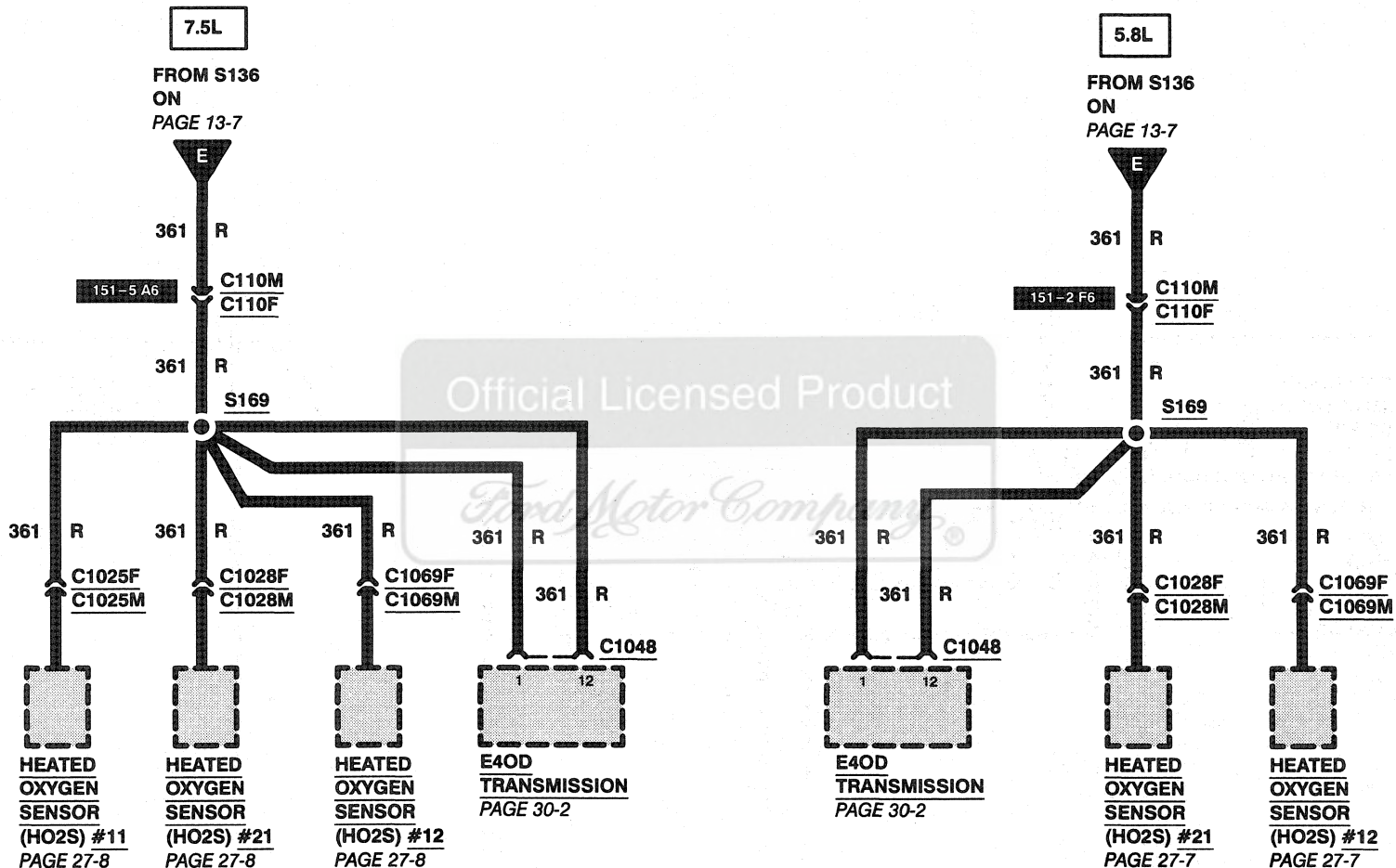




# POWER DISTRIBUTION 13-8

1997 F-250 HD/350/SUPER DUTY

## GASOLINE CALIFORNIA EXCEPT SUPERDUTY

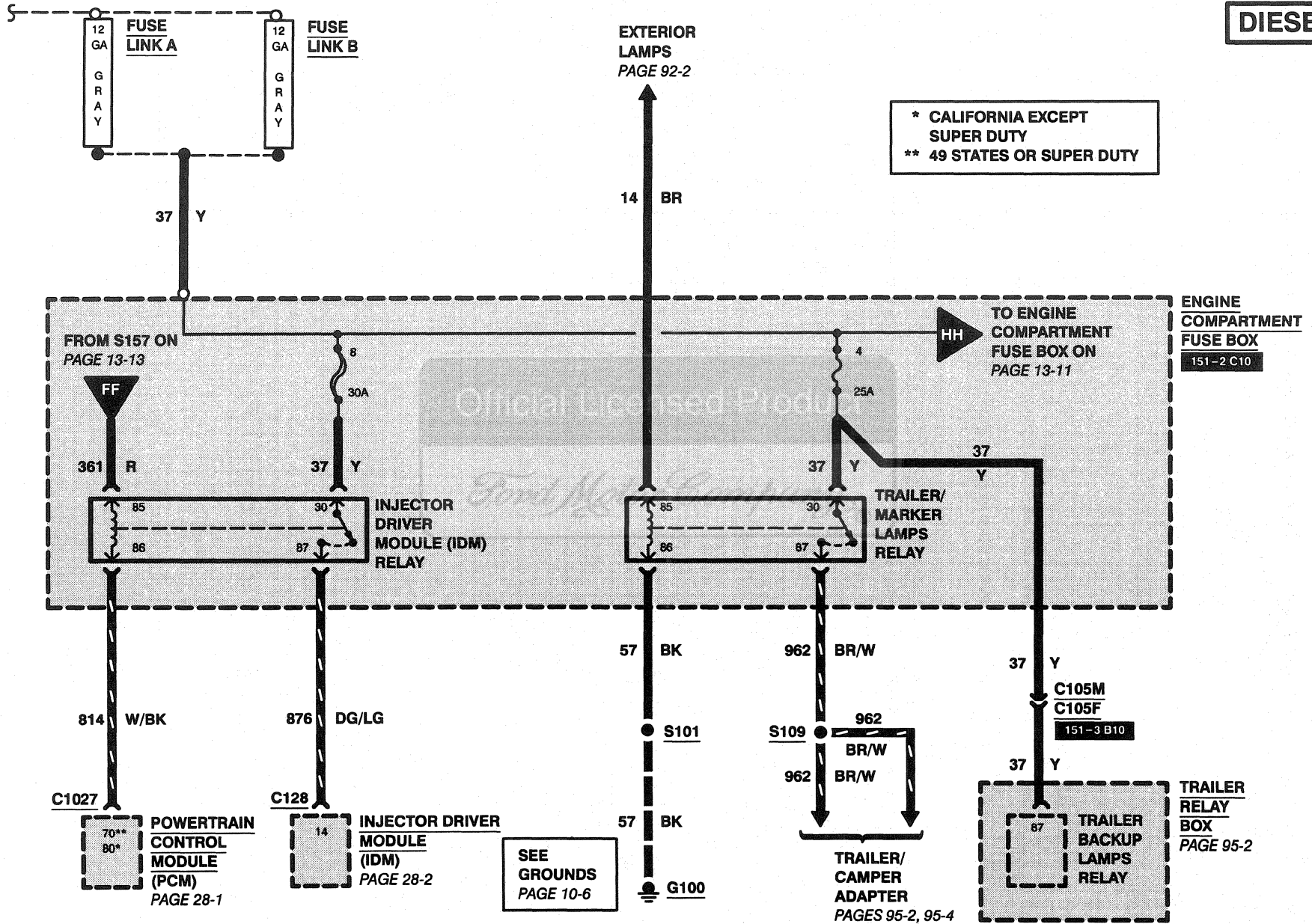




# POWER DISTRIBUTION 13-10

1997 F-250 HD/350/SUPER DUTY

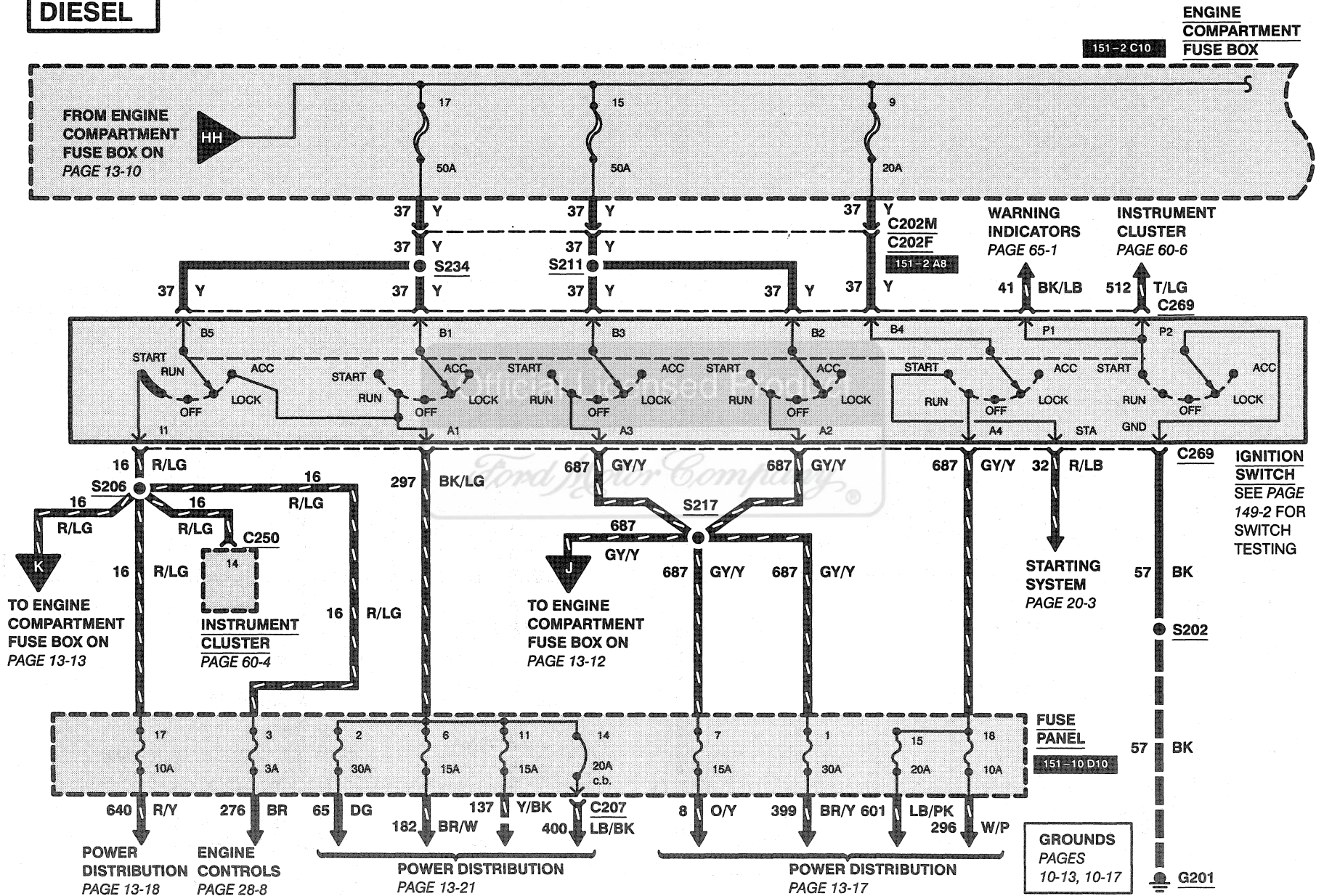
**DIESEL**



# 13-11 POWER DISTRIBUTION

1997 F-250 HD/350 SUPER DUTY

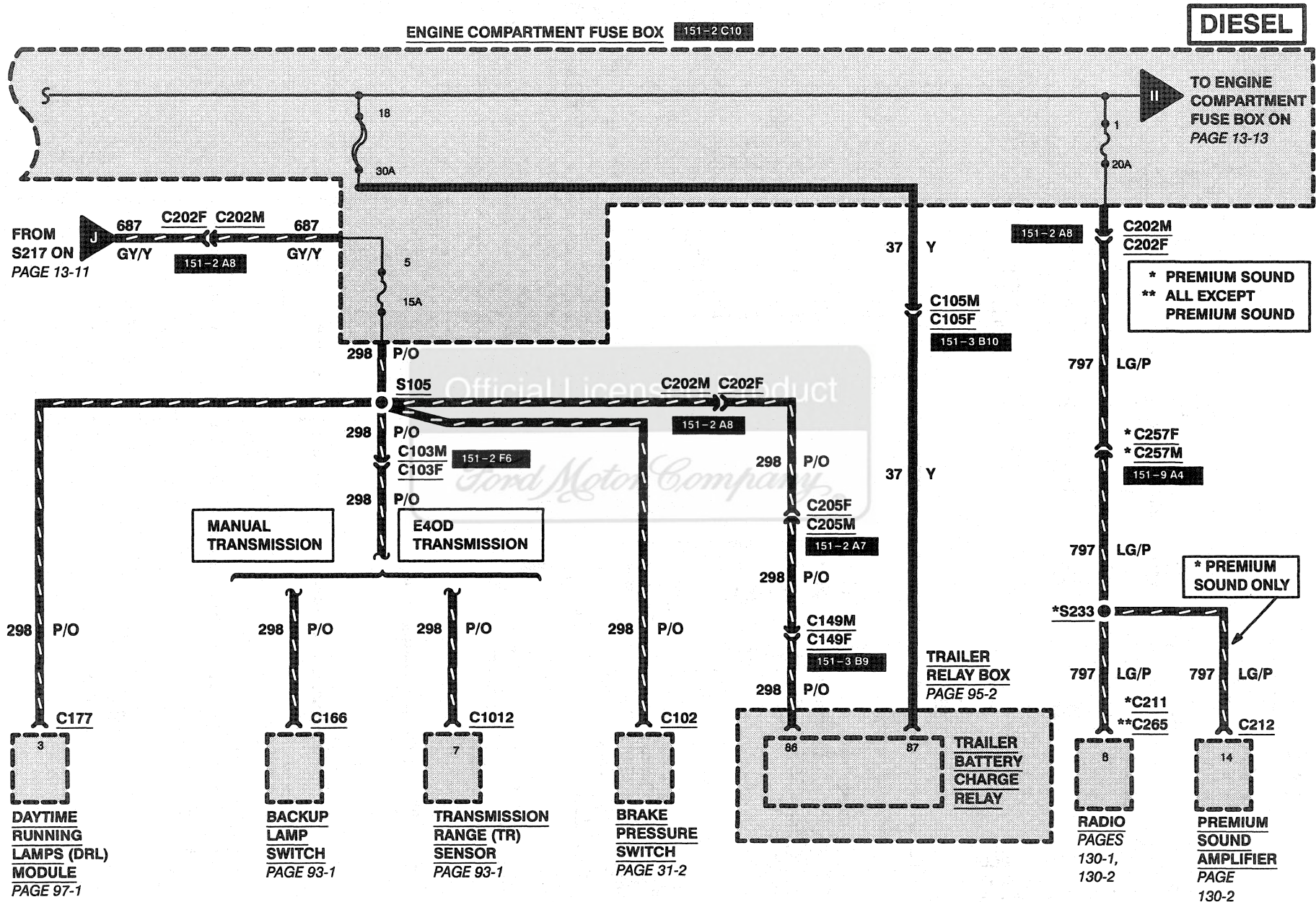
**DIESEL**



# POWER DISTRIBUTION 13-12

1997 F-250 HD/350/SUPER DUTY

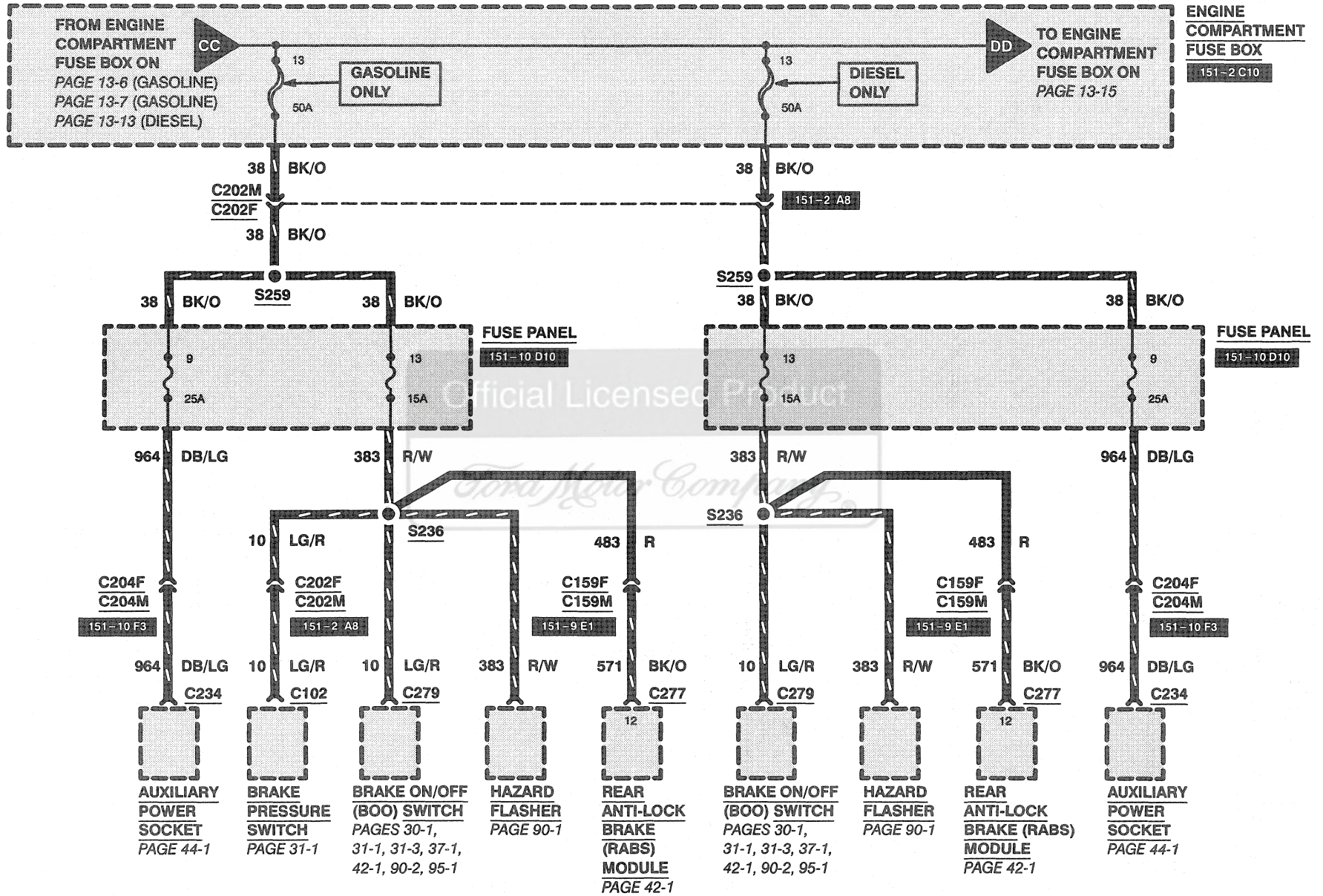
**DIESEL**





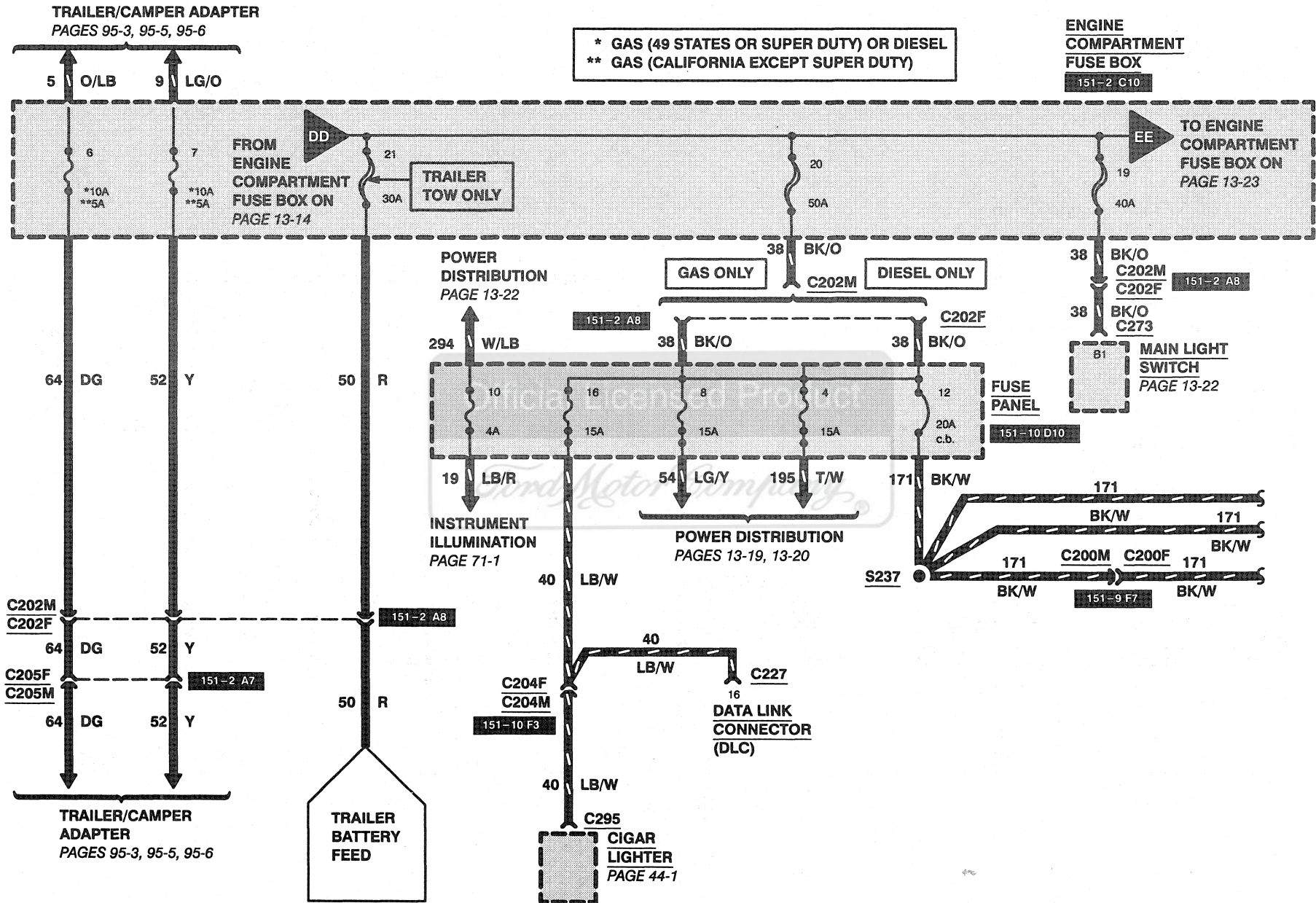
# POWER DISTRIBUTION 13-14

1997 F-250 HD/350/SUPER DUTY



# 13-15 POWER DISTRIBUTION

1997 F-250 HD/350/SUPER DUTY

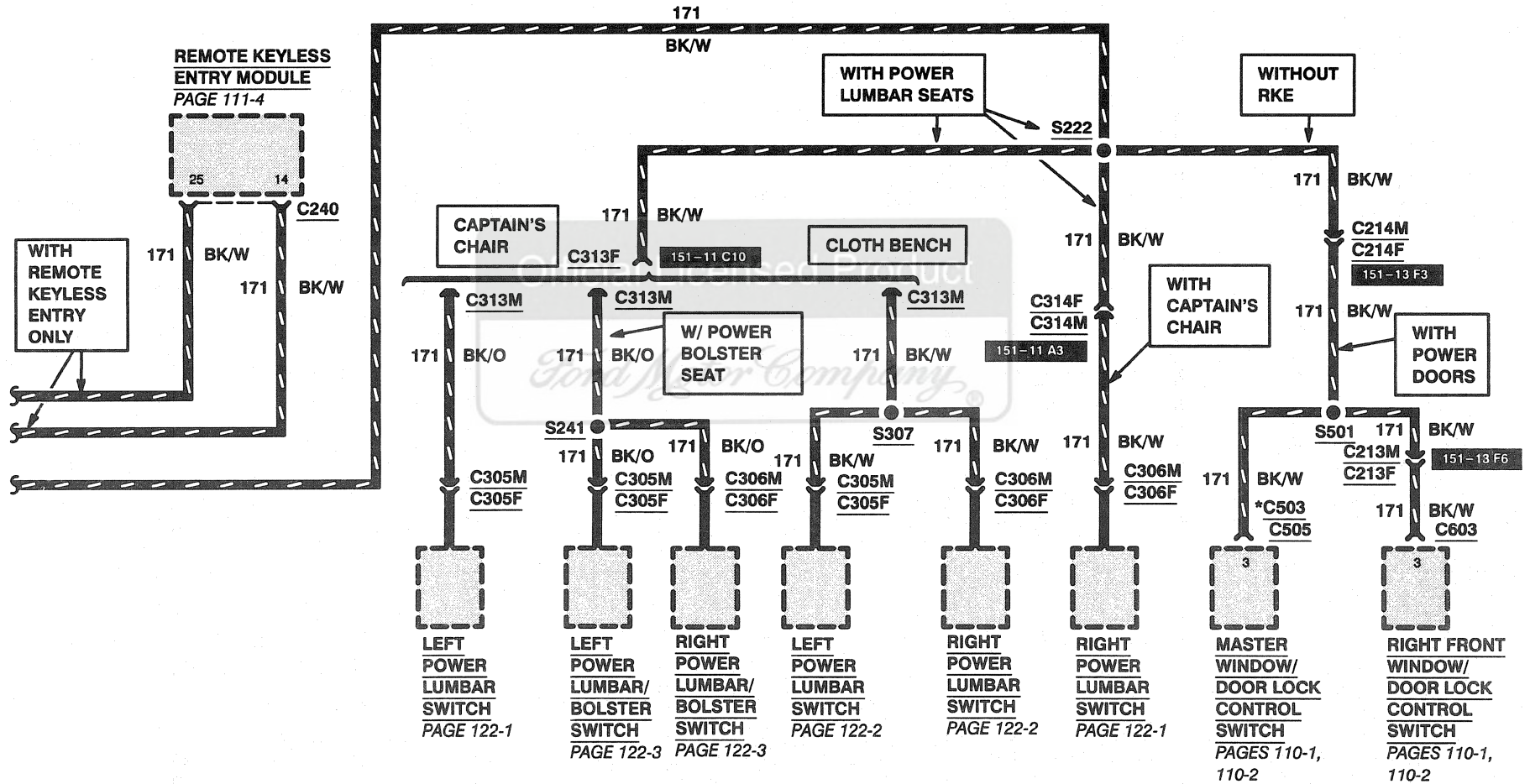




# POWER DISTRIBUTION 13-16

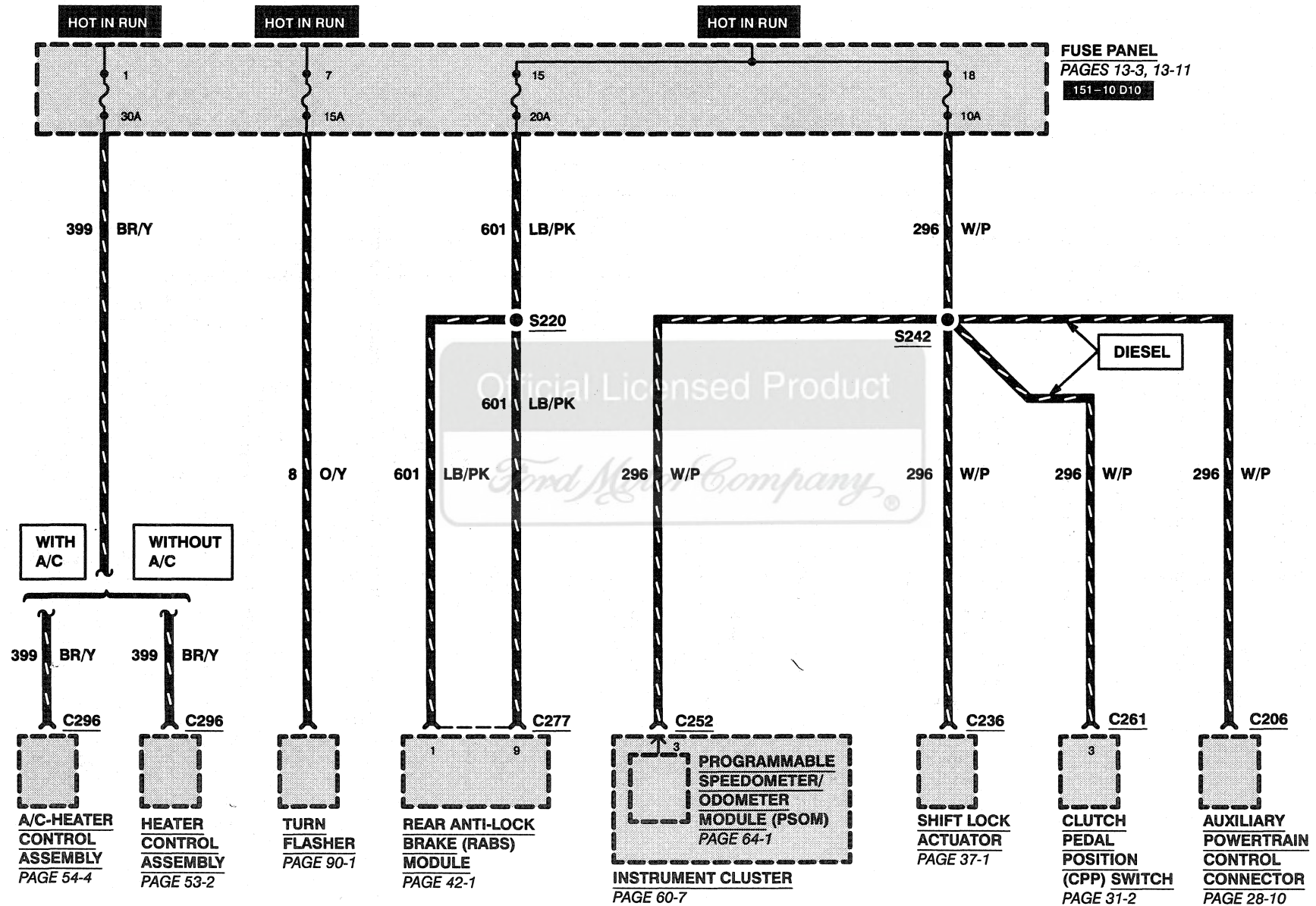
1997 F-250 HD/350/SUPER DUTY

\* WITH CREW CAB



# 13-17 POWER DISTRIBUTION

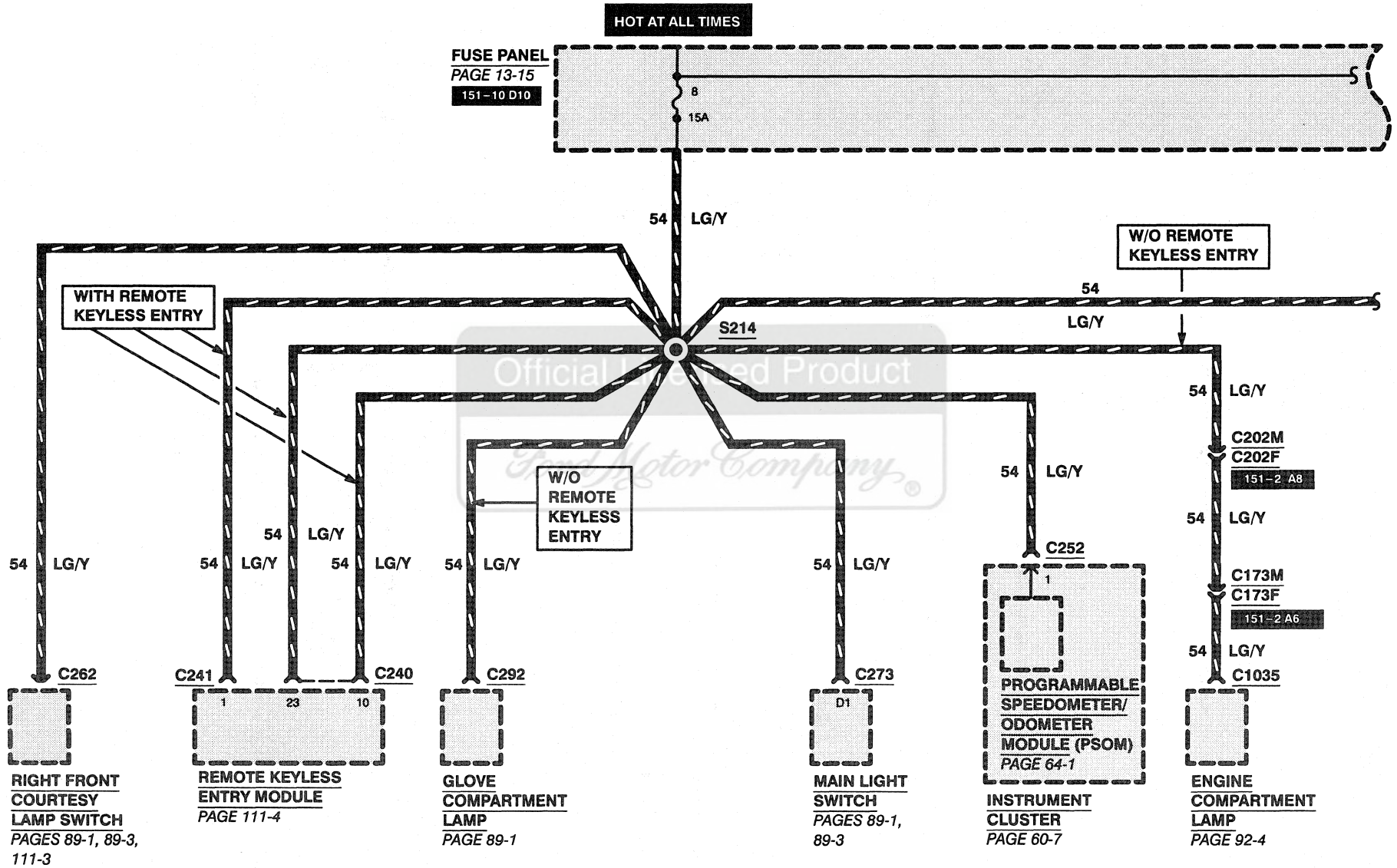
1997 F-250 HD/350/SUPER DUTY





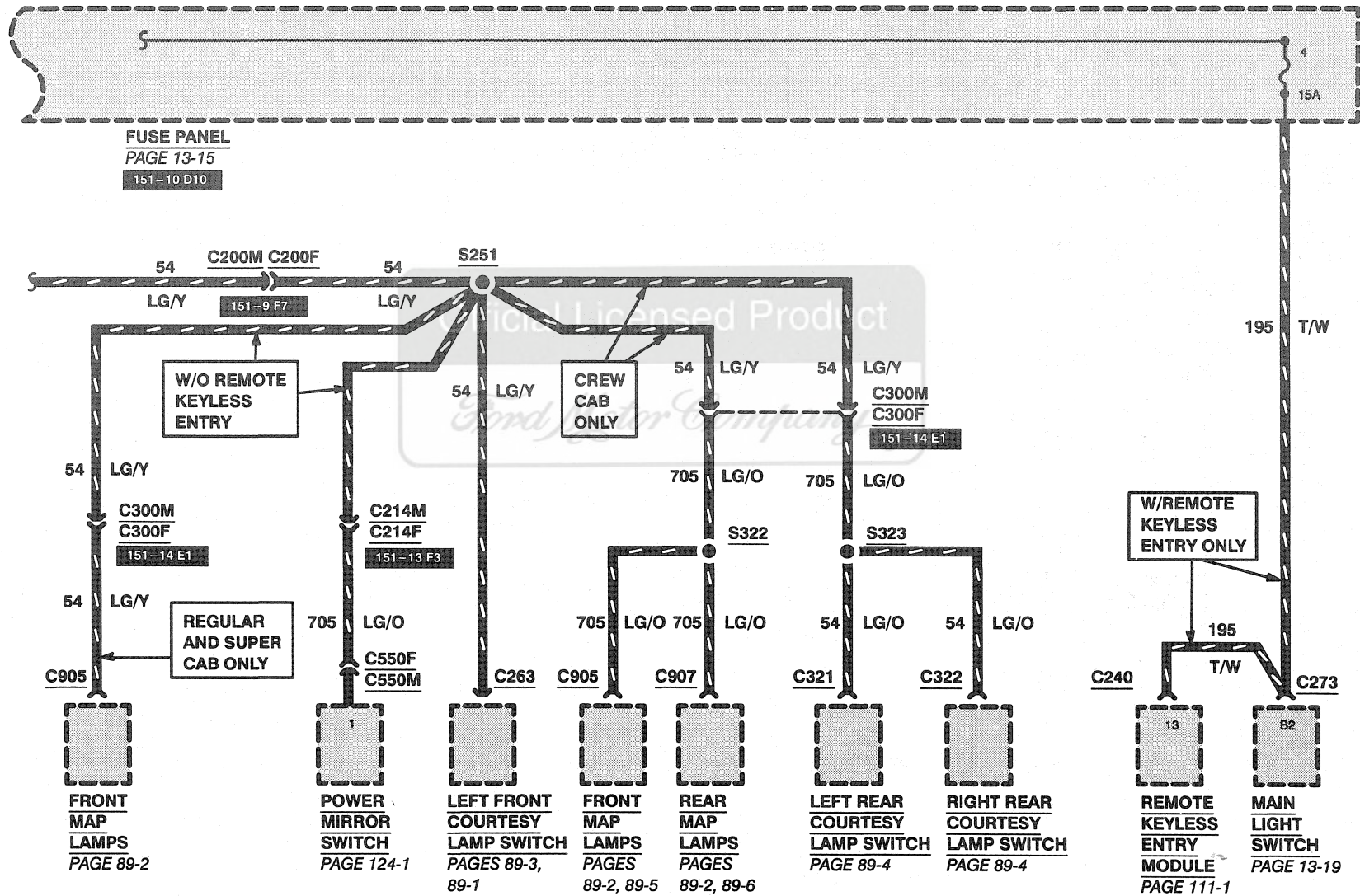
# 13-19 POWER DISTRIBUTION

1997 F-250 HD/350/SUPER DUTY



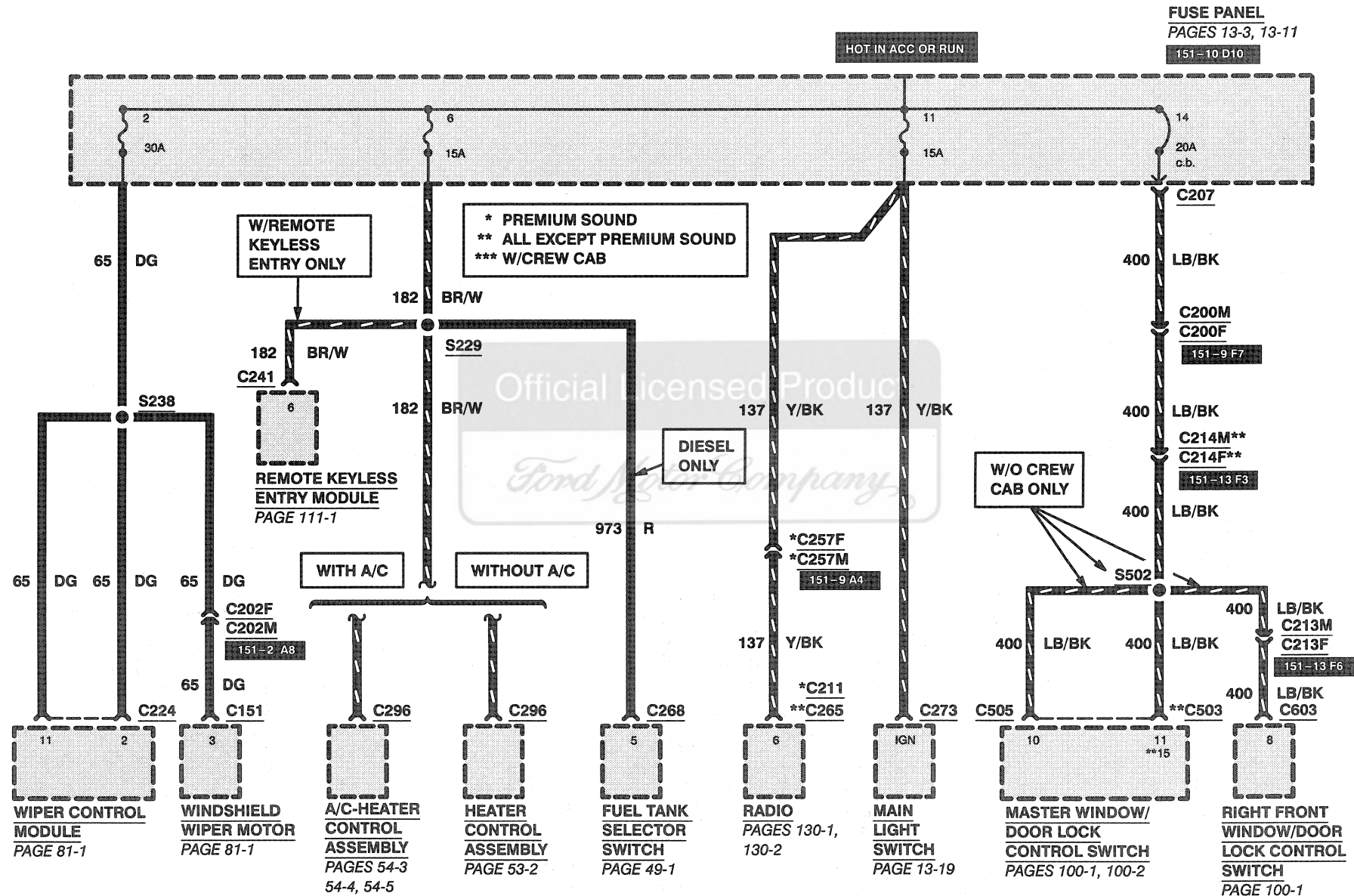
# POWER DISTRIBUTION 13-20

1997 F-250 HD/350/SUPER DUTY



# 13-21 POWER DISTRIBUTION

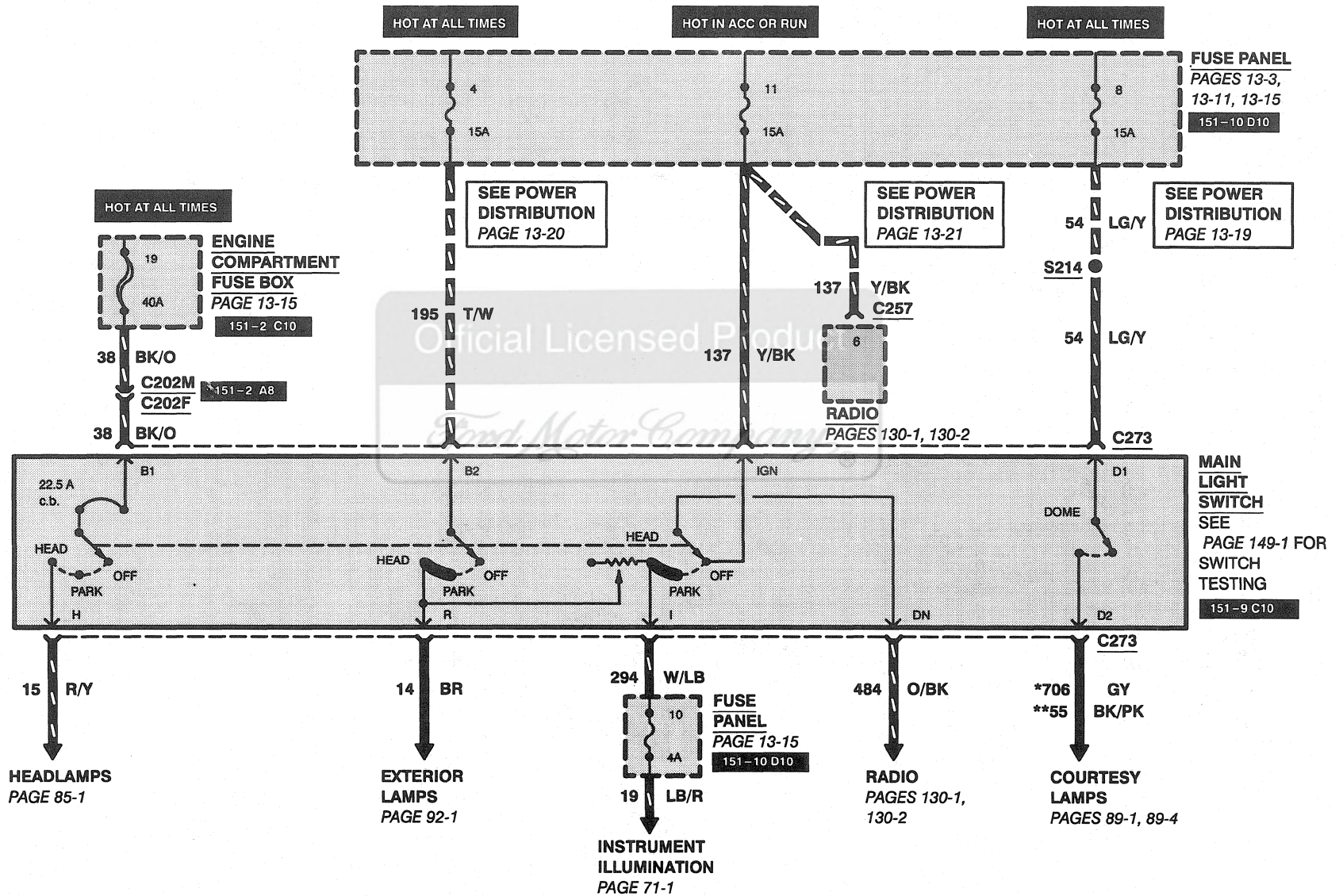
1997 F-250 HD/350/SUPER DUTY



# POWER DISTRIBUTION 13-22

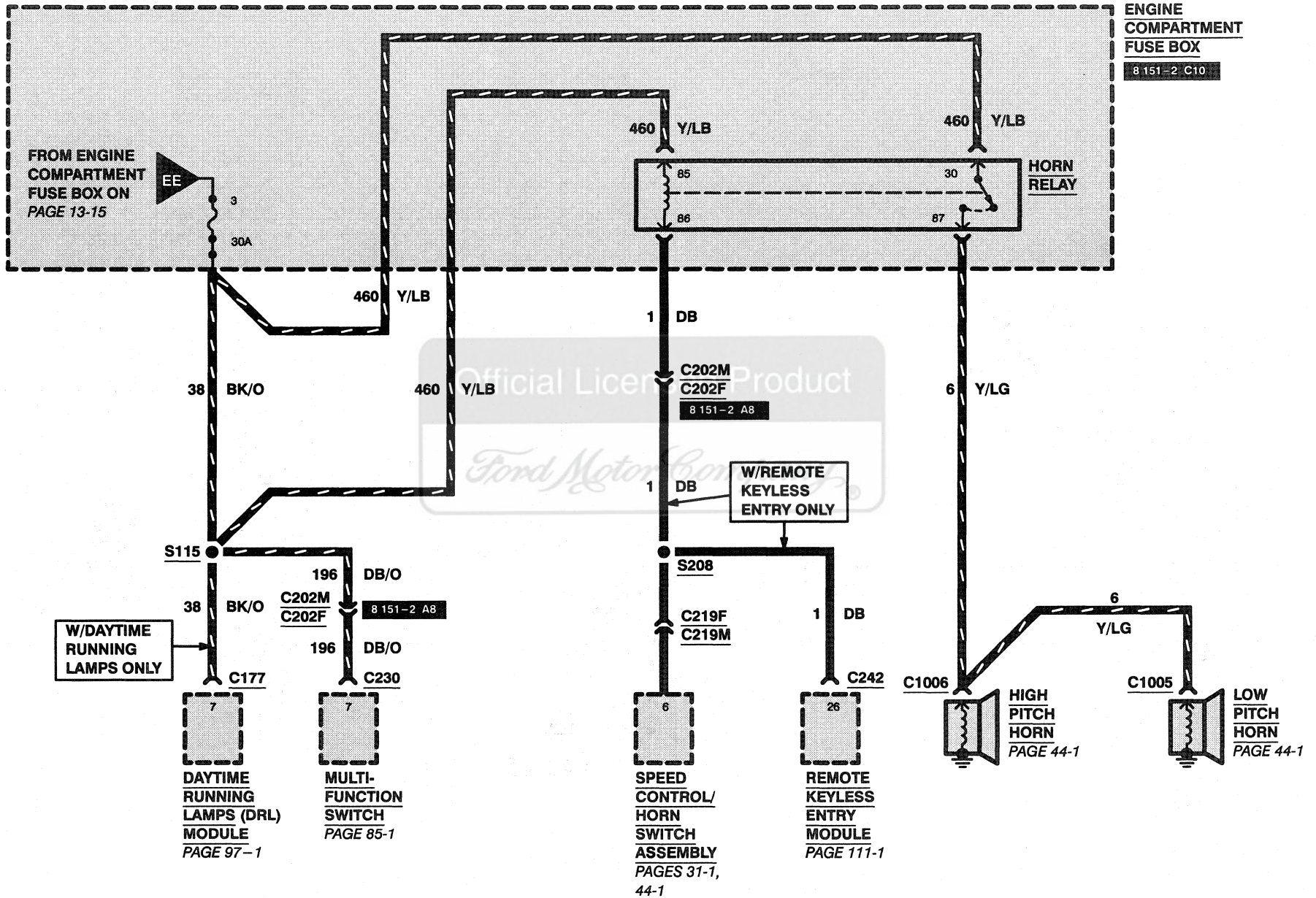
1997 F-250 HD/350/SUPER DUTY

\* W/REMOTE KEYLESS ENTRY  
\*\* W/O REMOTE KEYLESS ENTRY



# 13-23 POWER DISTRIBUTION

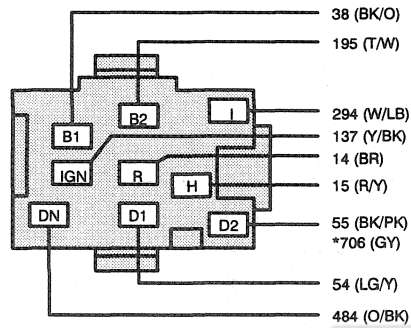
1997 F-250 HD/350/SUPER DUTY





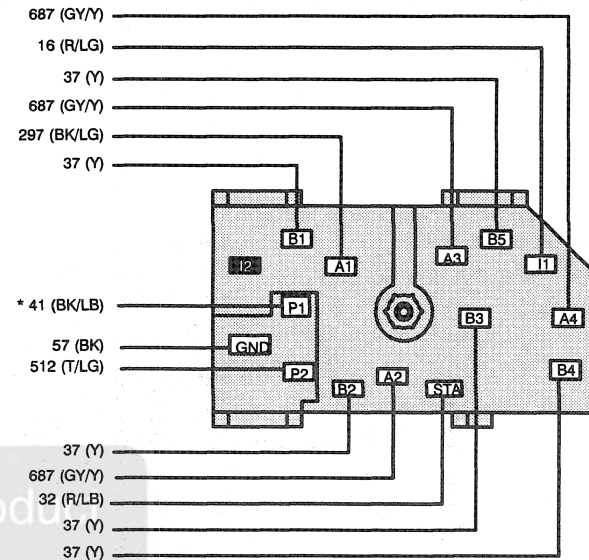
# POWER DISTRIBUTION 13-24

1997 F-250 HD/350/SUPER DUTY



\* W/REMOTE KEYLESS ENTRY, ANTI-THEFT

**C273**  
**MAIN LIGHT SWITCH**



\* DIESEL ONLY

**C269**  
**IGNITION SWITCH**

PIN	CIRCUIT	CIRCUIT FUNCTION
B2	195 (T/W)	B+ to Main Light Switch
B1	38 (BK/O)	B+ to Main Light Switch
D1	54 (LG/Y)	Interior Lamp Switch Feed
D2	55 (BK/PK) *706 (GY)	Courtesy Lamp Switch to Courtesy Lamp
H	15 (R/Y)	Headlamp Dimmer Switch Feed
I	294 (W/LB)	Instrument Panel Lamps Feed
IGN	137 (Y/BK)	B+ to Main Light Switch
R	14 (BR)	Exterior Lamps Feed
DN	484 (O/BK)	Radio Illumination Feed

PIN	CIRCUIT	CIRCUIT FUNCTION
A1	297 (BK/LG)	Hot in ACC or RUN
A2	687 (GY/Y)	Hot in RUN
A3	687 (GY/Y)	Hot in RUN
A4	687 (GY/Y)	Hot in RUN
B1	37 (Y)	Battery Input
B2	37 (Y)	Battery Input
B3	37 (Y)	Battery Input
B4	37 (Y)	Battery Input
B5	37 (Y)	Battery Input
I1	16 (R/LG)	Hot in RUN or START
I2	-	NOT USED
P1	*41 (BK/LB)	Bulb Test (Diesel Only)
P2	512 (T/LG)	Bulb Test
STA	32 (R/LB)	Hot in START
GND	57 (BK)	Ground

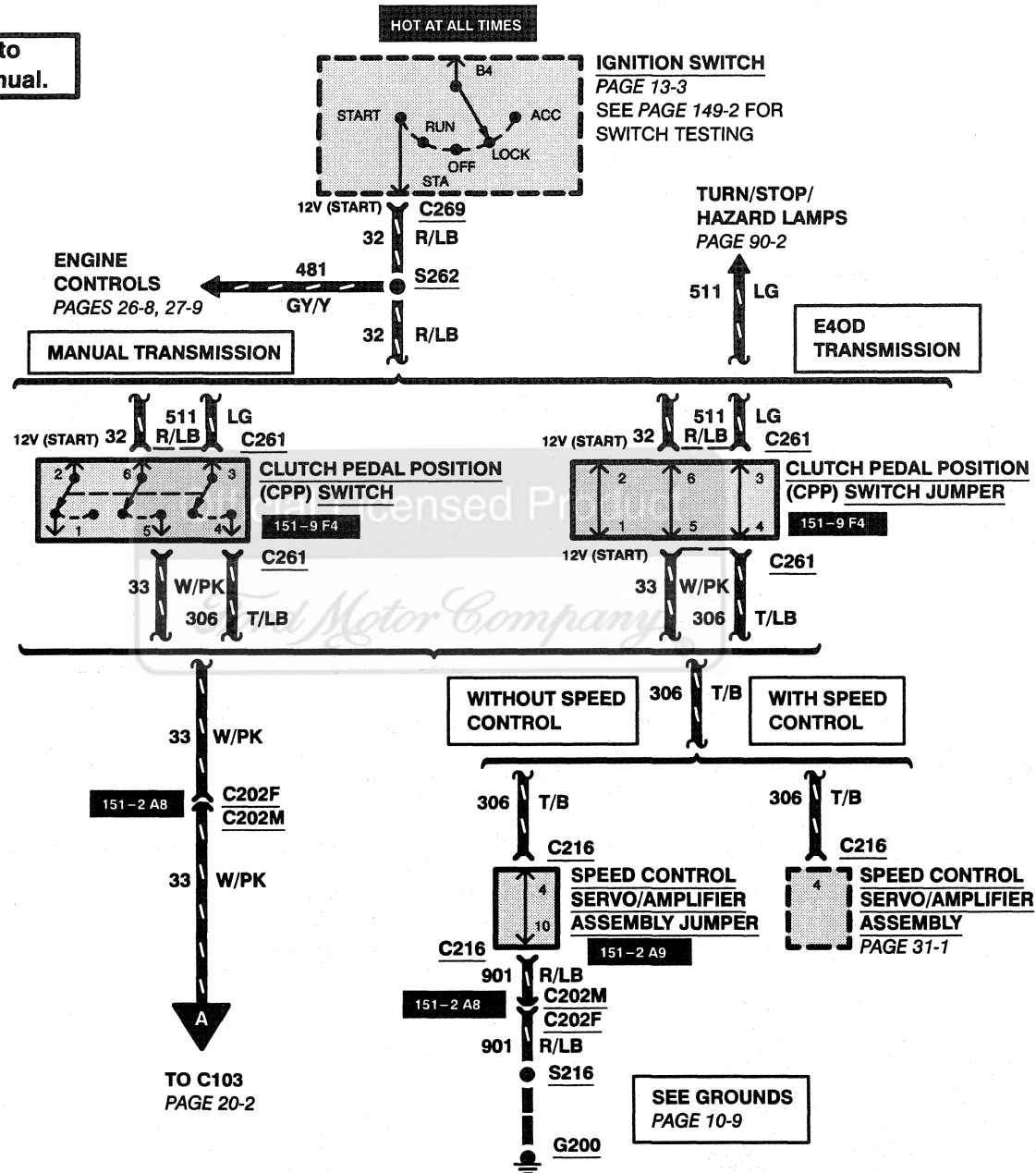
# 20-1 STARTING SYSTEM

1997 F-250 HD/350/SUPER DUTY

**GASOLINE**

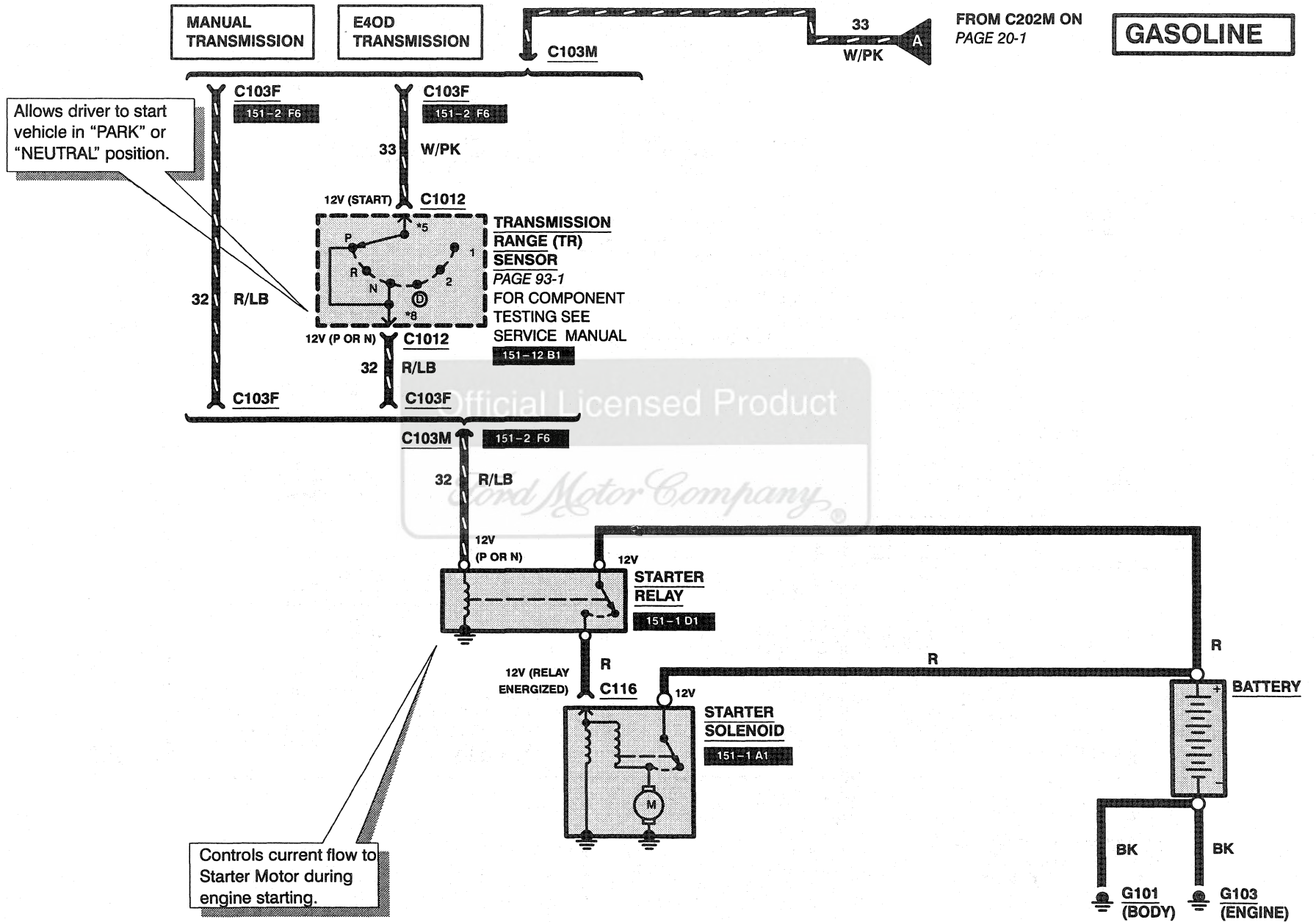
For diagnostic information, refer to section 03-06 of the Service Manual.

Prevents engine startup with clutch engaged.



# STARTING SYSTEM 20-2

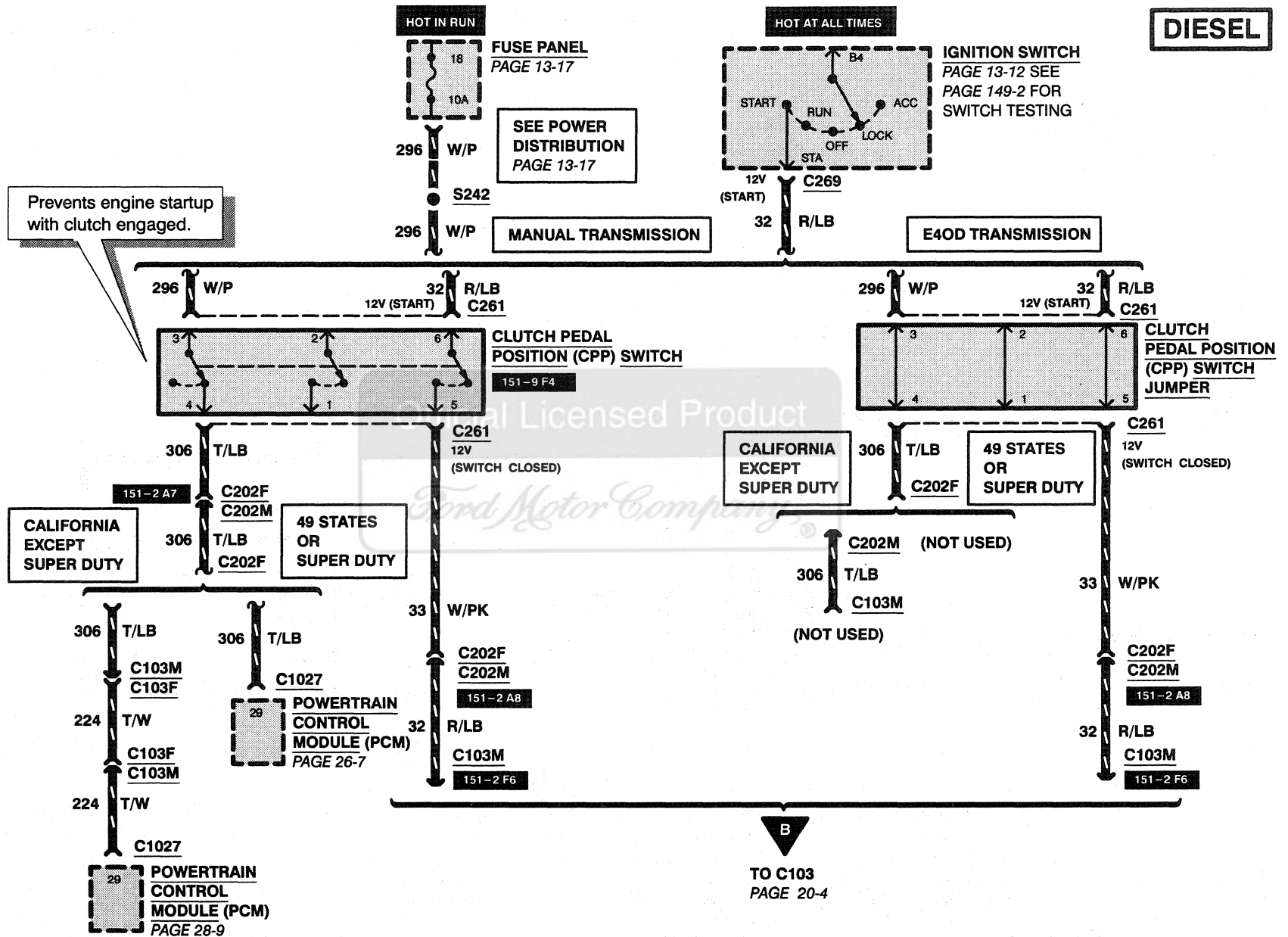
1997 F-250 HD/350/SUPER DUTY



# 20-3 STARTING SYSTEM

1997 F-250 HD/350/SUPER DUTY

**DIESEL**



# STARTING SYSTEM 20-4

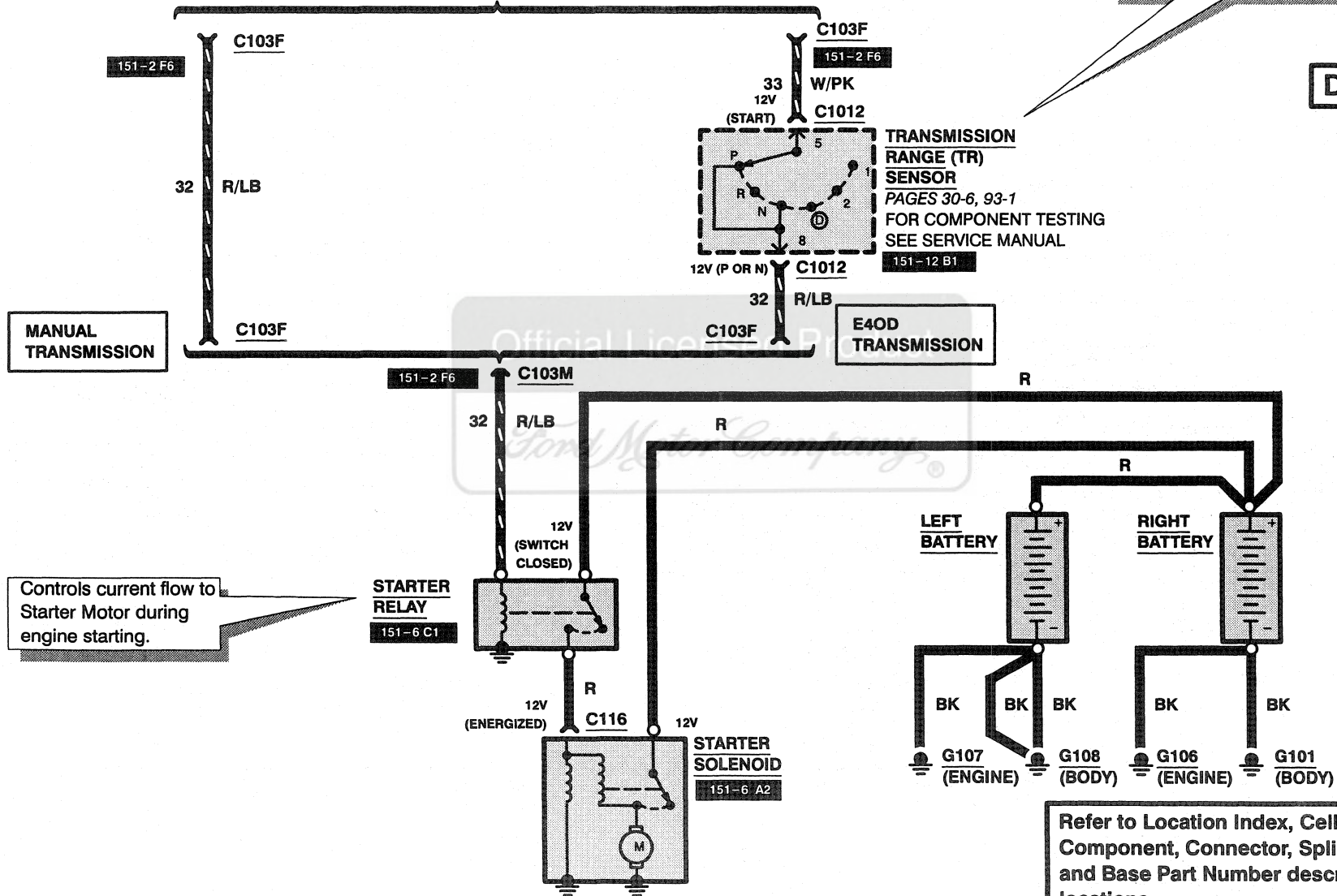
1997 F-250 HD/350/SUPER DUTY

FROM C103  
PAGE 20-3

B

Allows driver to start vehicle in "PARK" or "NEUTRAL" position only.

**DIESEL**

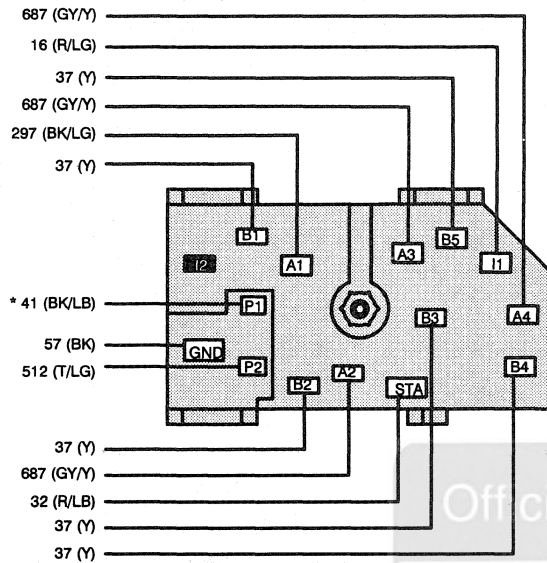


Controls current flow to Starter Motor during engine starting.

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

# 20-5 STARTING SYSTEM

1997 F-250 HD/350/SUPER DUTY

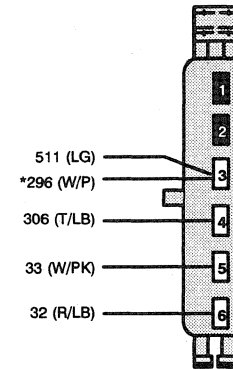


**C269**

**IGNITION SWITCH**

**\* DIESEL ONLY**

PIN	CIRCUIT	CIRCUIT FUNCTION
A1	297 (BK/LG)	Hot in ACC or RUN
A2	687 (GY/Y)	Hot in RUN
A3	687 (GY/Y)	Hot in RUN
A4	687 (GY/Y)	Hot in RUN
B1	37 (Y)	Battery Input
B2	37 (Y)	Battery Input
B3	37 (Y)	Battery Input
B4	37 (Y)	Battery Input
B5	37 (Y)	Battery Input
I1	16 (R/LG)	Hot in RUN or START
I2	—	NOT USED
P1	*41 (BK/LB)	Bulb Test (Diesel Only)
P2	512 (T/LG)	Bulb Test
STA	32 (R/LB)	Hot in START
GND	57 (BK)	Ground



**\* GASOLINE  
\*\* DIESEL**

**C261 (GRAY)**

**CLUTCH PEDAL POSITION (CPP) SWITCH**

PIN	CIRCUIT	CIRCUIT FUNCTION
1	—	NOT USED
2	—	NOT USED
3	*511 (LG) **296 (W/P)	Brake ON/OFF Switch Input Hot In Run
4	306 (T/LB)	Speed Control Output
5	33 (W/PK)	Start Signal Output
6	32 (R/LB)	Ignition Switch (Start) Input

**CELL 20 CONNECTOR REFERENCE LIST**

CONNECTOR	SECTION-PAGE
C103	150-2
C202	150-6
C1012	29-5, 93-3
C1027	28-13
C1027	28-15

Official Licensed Product

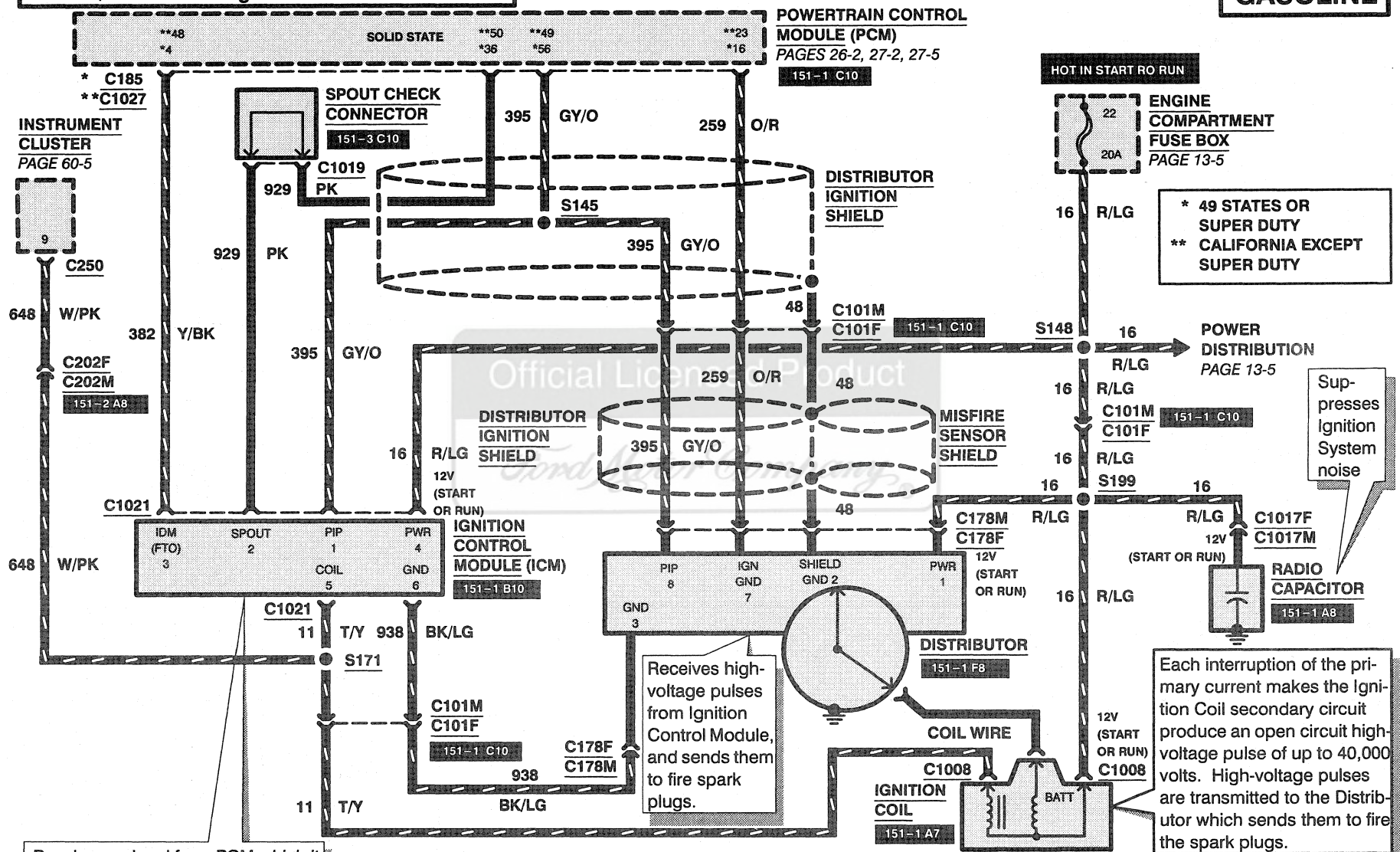
*Ford Motor Company*

# 21-1 IGNITION SYSTEM

1997 F-250 HD/350/SUPER DUTY

For diagnostic information, refer to the Powertrain Control/Emissions Diagnosis Manual.

**GASOLINE**

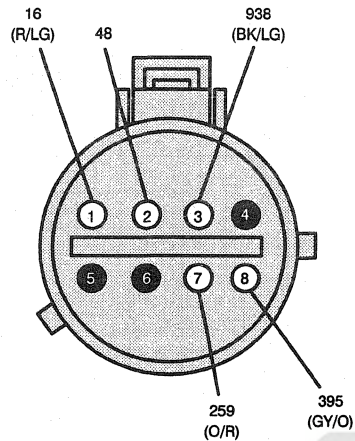


Refer to Location Index, Cell 152, for Component, Connector, Splice, Ground and Base Part Number descriptions and locations.



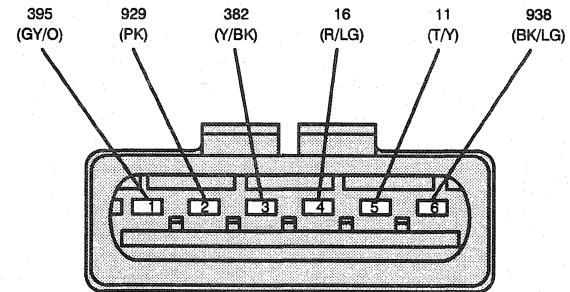
# IGNITION SYSTEM 21-2

1997 F-250 HD/350/SUPER DUTY



**C178  
DISTRIBUTOR**

PIN	CIRCUIT	CIRCUIT FUNCTION
1	16 (R/LG)	Hot In Run Or Start
2	48	Shield Ground
3	938 (BK/LG)	Ground
4	—	NOT USED
5	—	NOT USED
6	—	NOT USED
7	259 (O/R)	Ignition Ground
8	395 (GY/O)	Profile Ignition Pickup (PIP)



**C1021 (GRAY)  
IGNITION CONTROL MODULE (ICM)**

PIN	CIRCUIT	CIRCUIT FUNCTION
1	395 (GY/O)	Profile Ignition Pickup (PIP)
2	929 (PK)	Spark Out (SPOUT) Signal
3	382 (Y/BK)	IDM (FTO)
4	16 (R/LG)	Hot In Start Or Run
5	11 (T/Y)	Ignition Coil Input
6	938 (BK/LG)	Ground

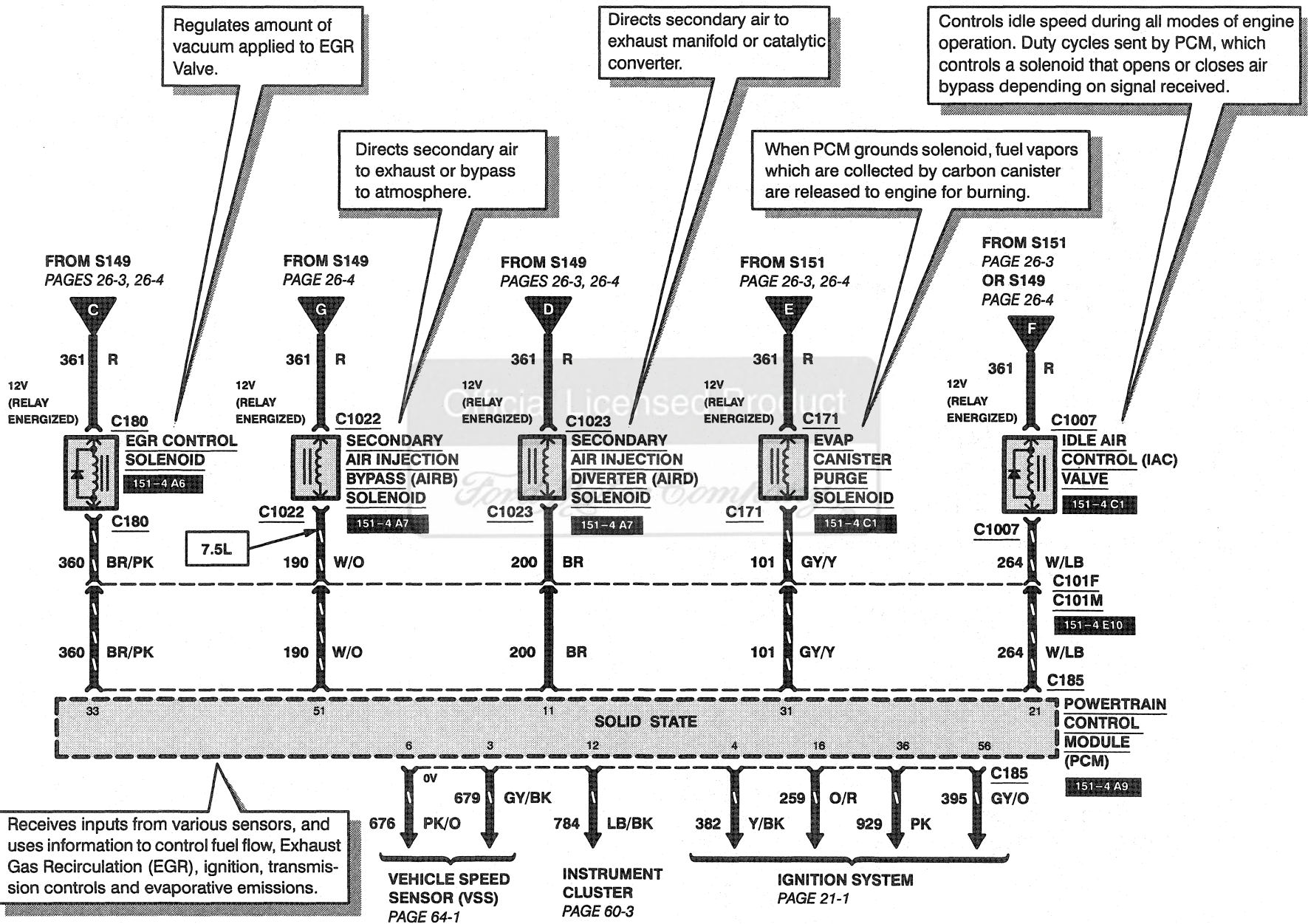
**CELL 21 CONNECTOR REFERENCE LIST**

CONNECTOR	SECTION-PAGE
C101	150-1
C185	26-9
C202	150-6
C250	60-9
C1027	27-11
C1027	28-13
C1027	28-15



# ENGINE CONTROLS 5.8L/7.5L (49 STATES OR SUPER DUTY) 26-2

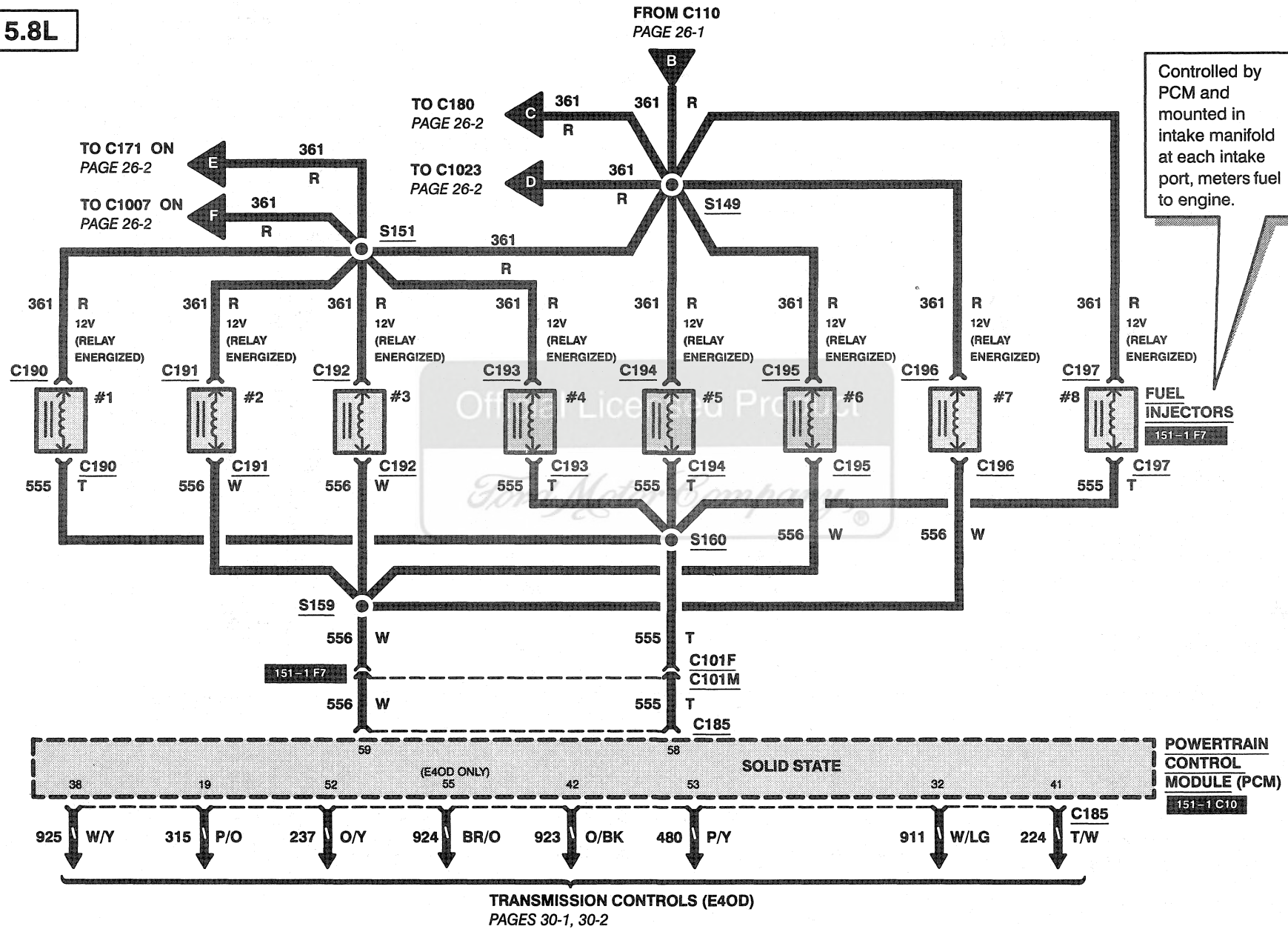
1997 F-250 HD/350/SUPER DUTY



# 26-3 ENGINE CONTROLS 5.8L/7.5L (49 STATES OR SUPER DUTY)

1997 F-250 HD/350/SUPER DUTY

5.8L

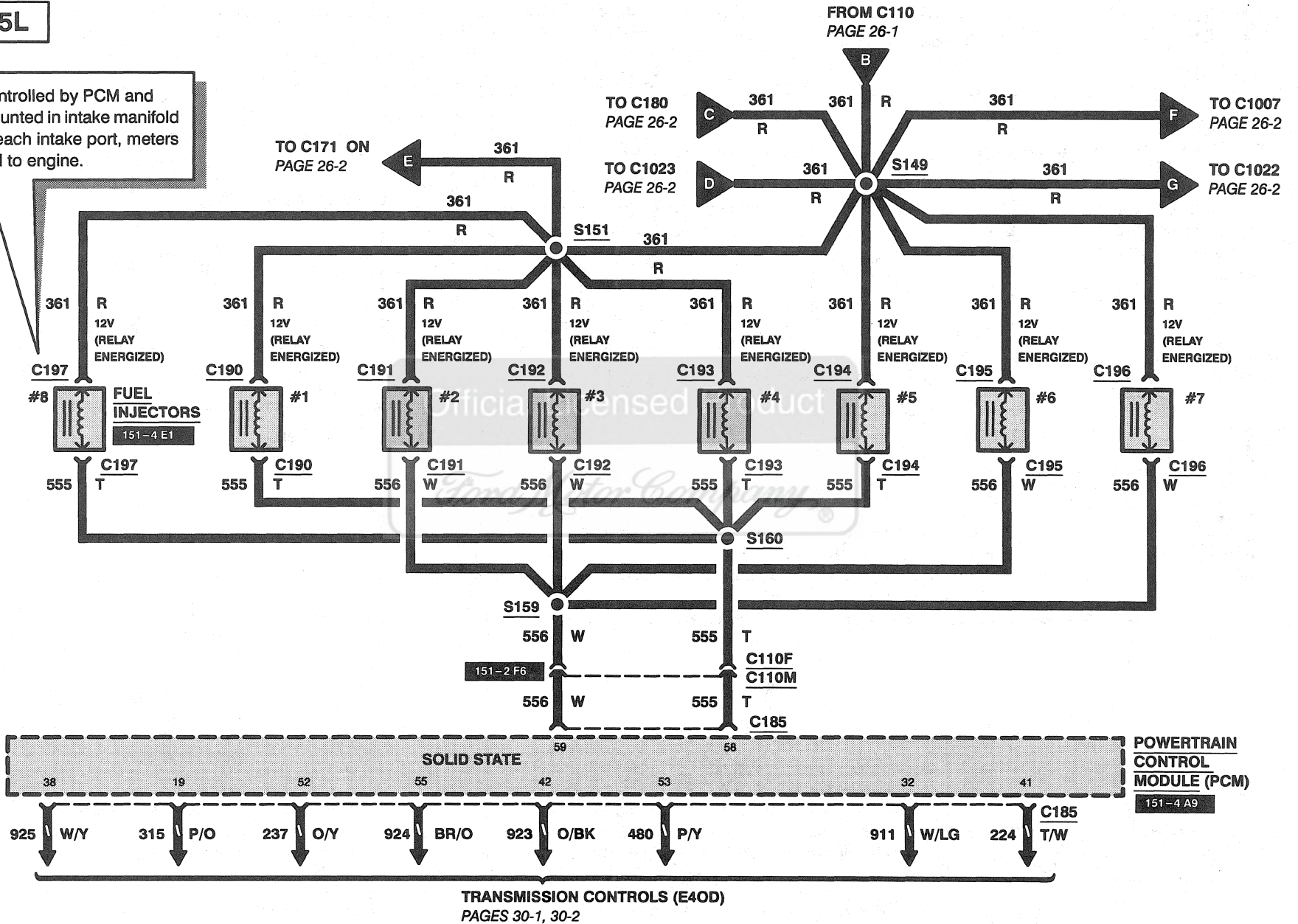


# ENGINE CONTROLS 5.8L/7.5L (49 STATES OR SUPER DUTY) 26-4

1997 F-250 HD/350/SUPER DUTY

## 7.5L

Controlled by PCM and mounted in intake manifold at each intake port, meters fuel to engine.



# 26-5 ENGINE CONTROLS 5.8L/7.5L (49 STATES OR SUPER DUTY)

1997 F-250 HD/350/SUPER DUTY

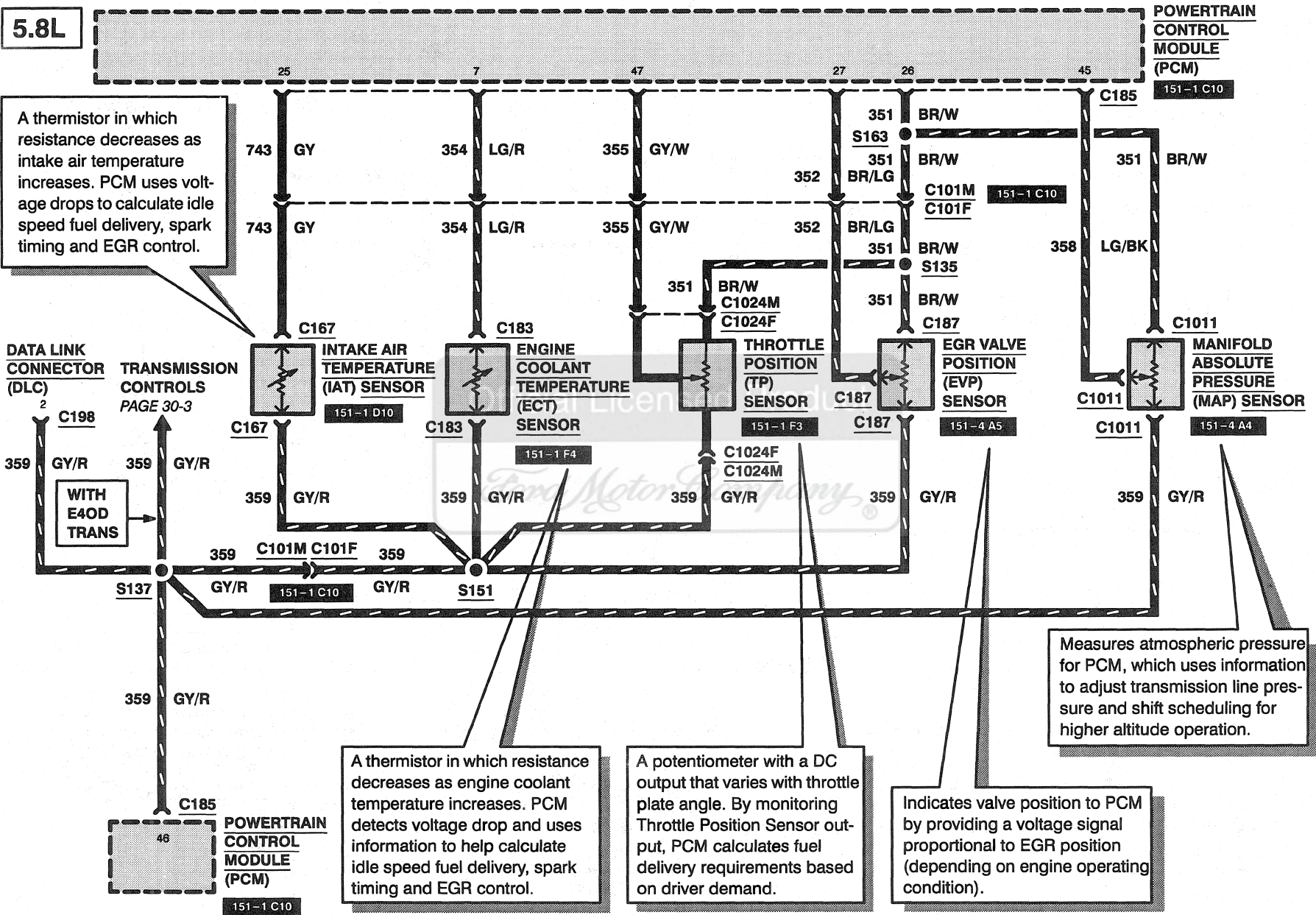
5.8L

POWERTRAIN CONTROL MODULE (PCM)

A thermistor in which resistance decreases as intake air temperature increases. PCM uses voltage drops to calculate idle speed fuel delivery, spark timing and EGR control.

DATA LINK CONNECTOR (DLC) 2

TRANSMISSION CONTROLS PAGE 30-3



A thermistor in which resistance decreases as engine coolant temperature increases. PCM detects voltage drop and uses information to help calculate idle speed fuel delivery, spark timing and EGR control.

A potentiometer with a DC output that varies with throttle plate angle. By monitoring Throttle Position Sensor output, PCM calculates fuel delivery requirements based on driver demand.

Indicates valve position to PCM by providing a voltage signal proportional to EGR position (depending on engine operating condition).

Measures atmospheric pressure for PCM, which uses information to adjust transmission line pressure and shift scheduling for higher altitude operation.

151-1 C10

# ENGINE CONTROLS 5.8L/7.5L (49 STATES OR SUPER DUTY) 26-6

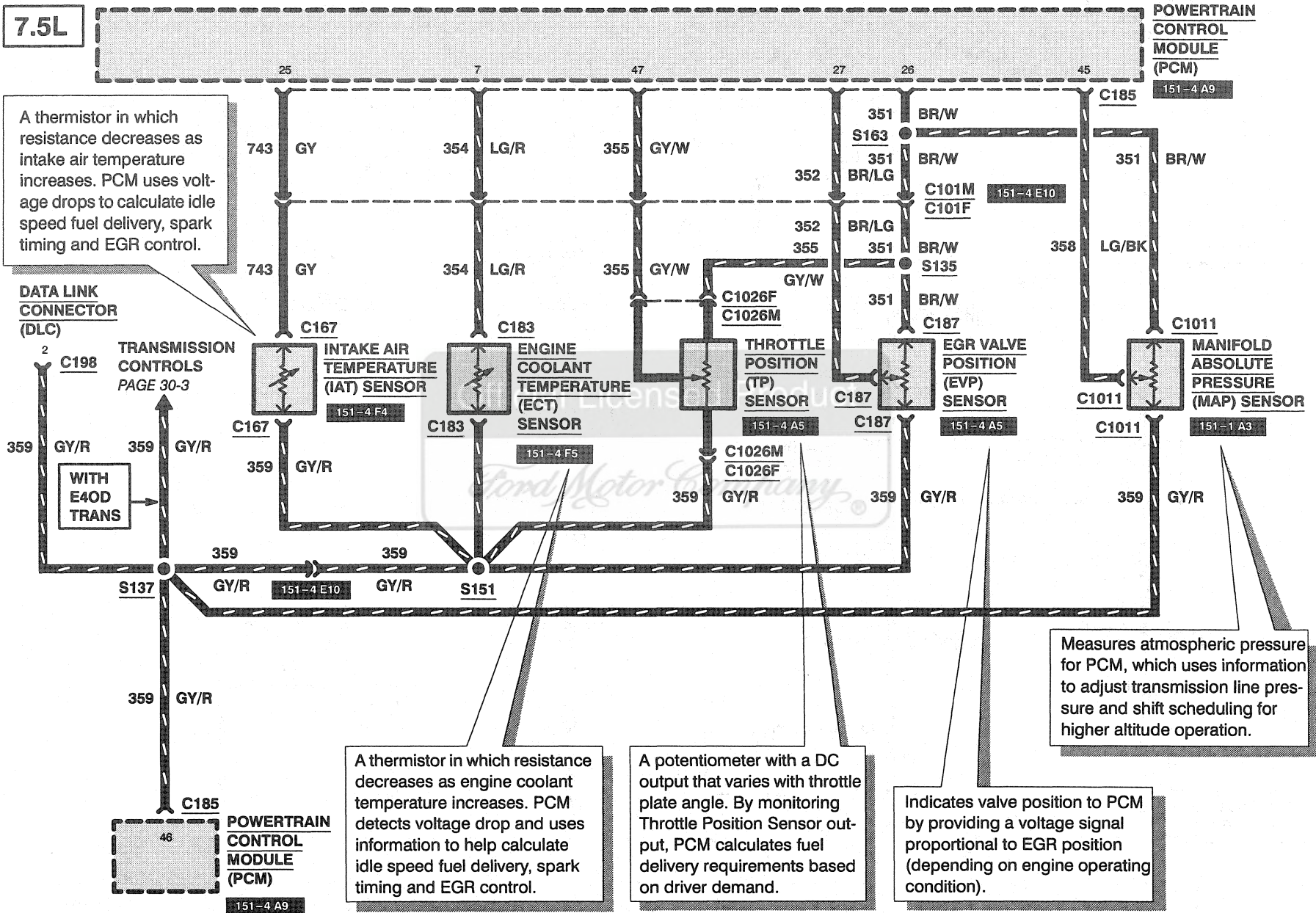
1997 F-250 HD/350/SUPER DUTY

7.5L

POWERTRAIN CONTROL MODULE (PCM)

A thermistor in which resistance decreases as intake air temperature increases. PCM uses voltage drops to calculate idle speed fuel delivery, spark timing and EGR control.

DATA LINK CONNECTOR (DLC)



TRANSMISSION CONTROLS PAGE 30-3

WITH E40D TRANS

A thermistor in which resistance decreases as engine coolant temperature increases. PCM detects voltage drop and uses information to help calculate idle speed fuel delivery, spark timing and EGR control.

A potentiometer with a DC output that varies with throttle plate angle. By monitoring Throttle Position Sensor output, PCM calculates fuel delivery requirements based on driver demand.

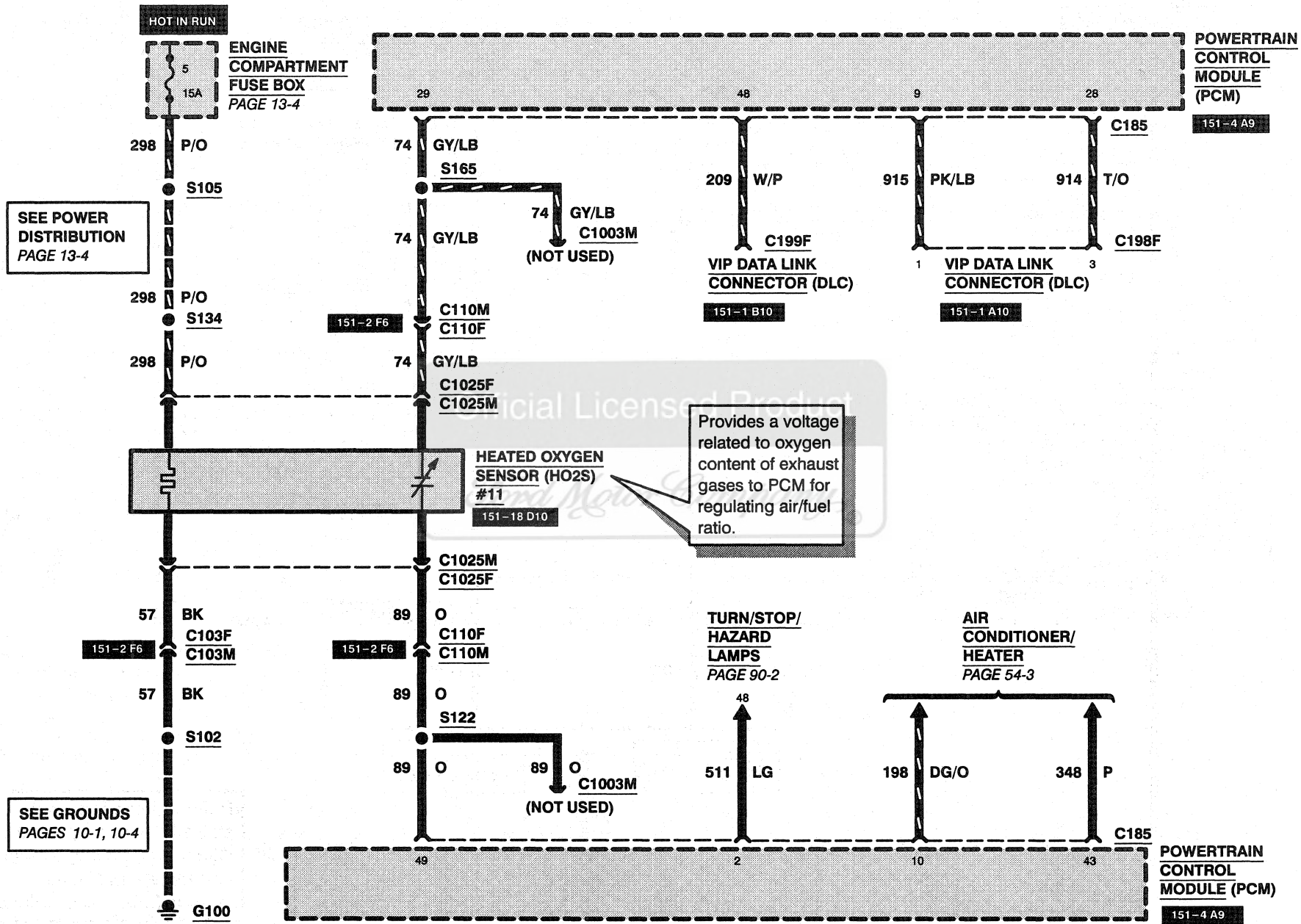
Indicates valve position to PCM by providing a voltage signal proportional to EGR position (depending on engine operating condition).

Measures atmospheric pressure for PCM, which uses information to adjust transmission line pressure and shift scheduling for higher altitude operation.

151-4 A9

# 26-7 ENGINE CONTROLS 5.8L/7.5L (49 STATES OR SUPER DUTY)

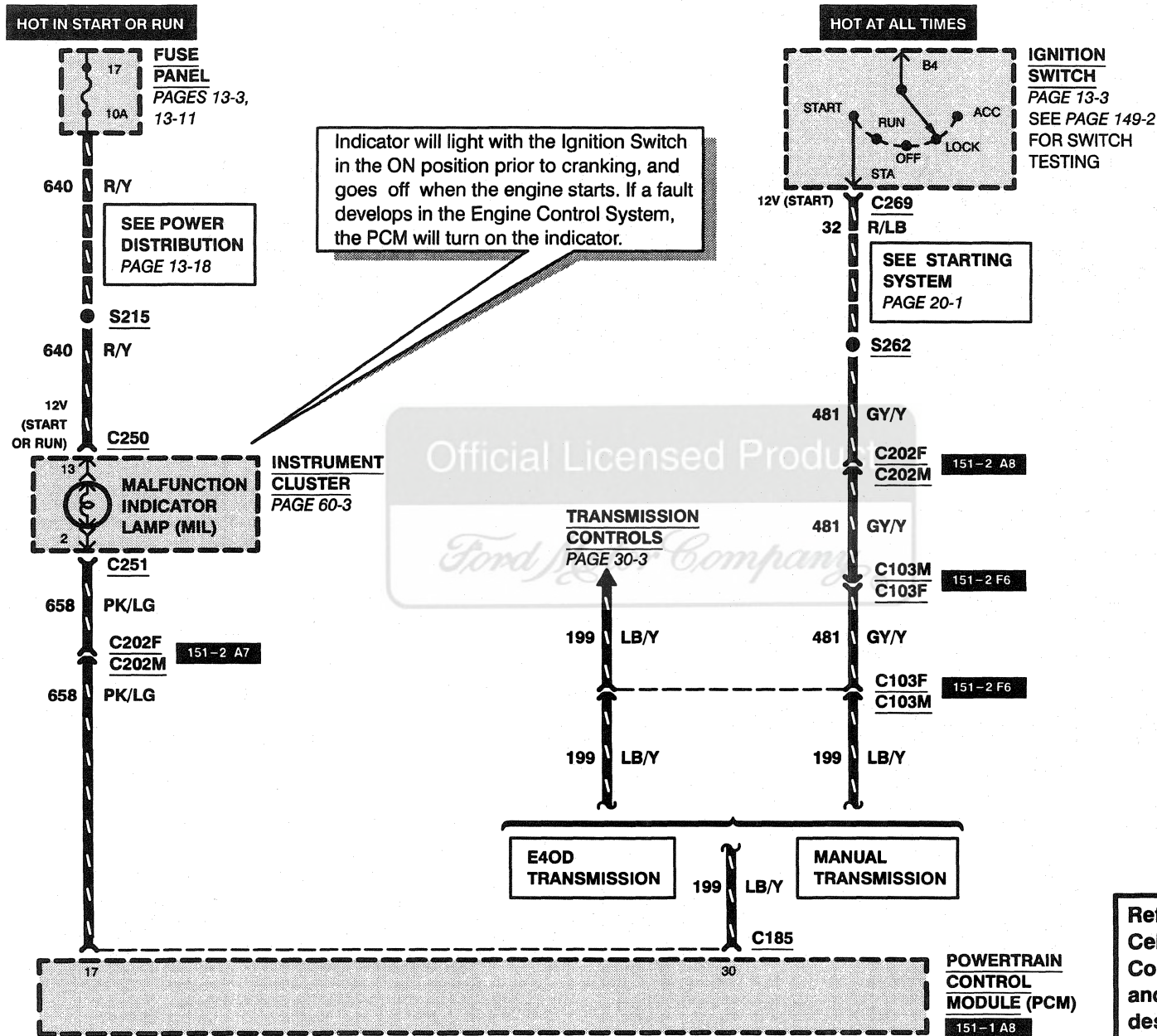
1997 F-250 HD/350/SUPER DUTY





# ENGINE CONTROLS 5.8L/7.5L (49 STATES OR SUPER DUTY) 26-8

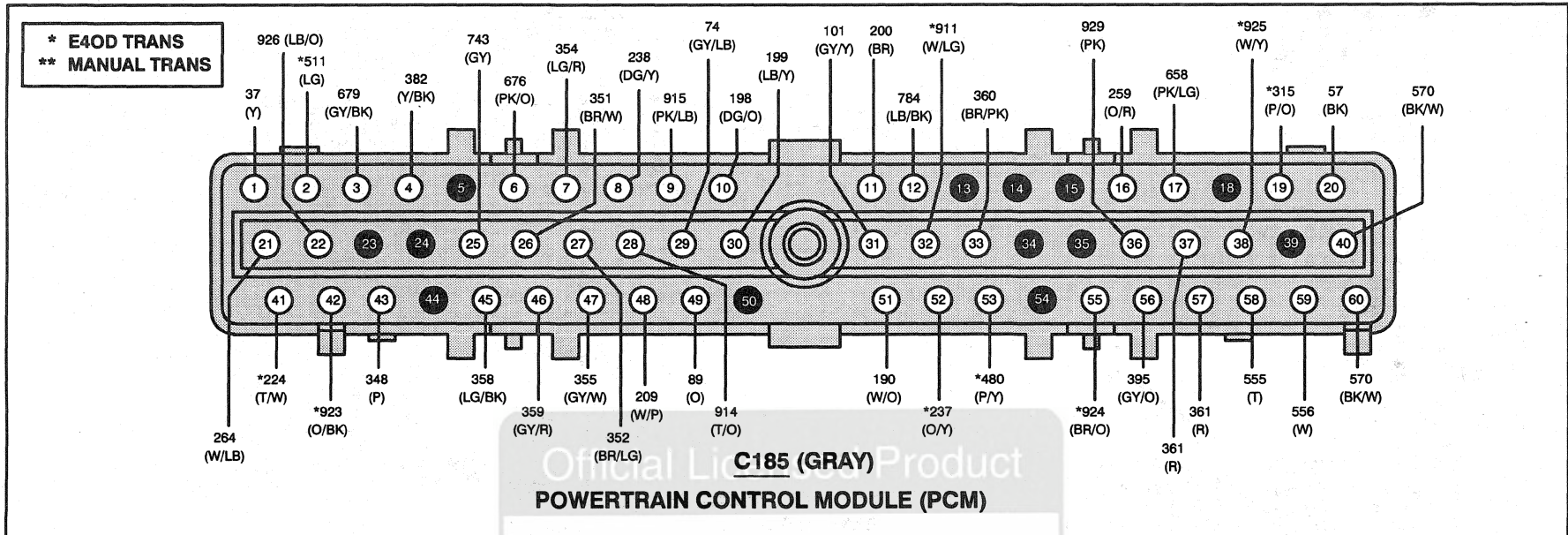
1997 F-250 HD/350/SUPER DUTY



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

# 26-9 ENGINE CONTROLS 5.8L/7.5L (49 STATES OR SUPER DUTY)

1997 F-250 HD/350/SUPER DUTY

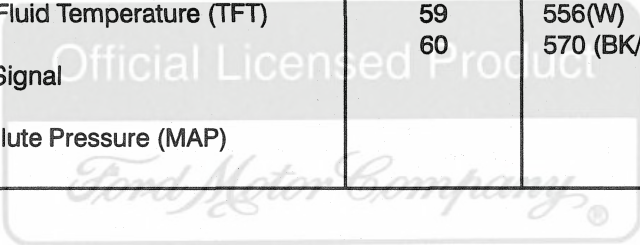


PIN	CIRCUIT	CIRCUIT FUNCTION	PIN	CIRCUIT	CIRCUIT FUNCTION
1	37 (Y)	(B+) Keep Alive Power Input	16	259 (O/R)	Ignition Ground
2	*511 (LG)	Brake ON/OFF Switch Input	17	658 (PK/LG)	Malfunction Indicator Lamp (MIL)
3	679 (GY/BK)	Vehicle Speed Sensor (VSS) Input	18	-	NOT USED
4	382 (Y/BK)	Ignition Diagnostic Monitor (IDM)	19	*315 (P/O)	Shift Solenoid #2
5	-	NOT USED	20	57 (BK)	PCM Case Ground
6	676 (PK/O)	Vehicle Speed Sensor (VSS) Ground	21	264 (W/LB)	Idle Air Control (IAC) Valve
7	354 (LG/R)	Engine Coolant Temperature (ECT) Sensor	22	926 (LB/O)	Fuel Pump Enable
8	238 (DG/Y)	Fuel Pump Monitor	23	-	NOT USED
9	915 (PK/LB)	VIP Data Link Connector (DLC)	24	-	NOT USED
10	198 (DG/O)	A/C Cycle Pressure Switch Input	25	743 (GY)	Intake Air Temperature (IAT) Sensor
11	200 (BR)	AIRD Solenoid Input	26	351 (BR/W)	Reference Voltage Output
12	784 (LB/BK)	Indicator Lamp to Low Range SW 4x4	27	352 (BR/LG)	EGR Valve Position Feed
13	-	NOT USED	28	914 (T/O)	VIP Data Link Connector (DLC)
14	-	NOT USED	29	74 (GY/LB)	Heated Oxygen Sensor (H2OS) Input
15	-	NOT USED	30	199 (LB/Y)	*Transmission Range (TR) Sensor (With E4OD) or CPP (With Manual Transmission)

# ENGINE CONTROLS 5.8L/7.5L (49 STATES OR SUPER DUTY) 26-10

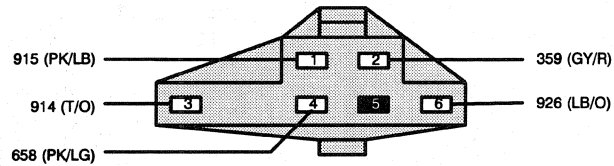
1997 F-250 HD/350/SUPER DUTY

PIN	CIRCUIT	CIRCUIT FUNCTION	PIN	CIRCUIT	CIRCUIT FUNCTION
30	199 (LB/Y)	**Clutch Pedal Position (CPP) Switch or Switch Jumper (without E4OD)	46	359 (GY/R)	Sensor Signal Return
31	101 (GY/Y)	EVAP Canister Purge Solenoid Input	47	355 (GY/W)	Throttle Position (TP) Sensor Input
32	*911 (W/LG)	Transmission Control Indicator Lamp (TCIL)	48	209 (W/P)	VIP Data Link Connector
33	360 (BR/PK)	EGR Control Solenoid Input	49	89(O)	Heated Oxygen Sensor (H02S) Ground
34	-	NOT USED	50	-	NOT USED
35	-	NOT USED	51	190 (W/O)	AIRB Solenoid Input
36	929 (PK)	Spark Out (SPOUT)	52	*237 (O/Y)	Transmission Shift Solenoid #1
37	361 (R)	Ignition (Hot in Start or Run)	53	*480 (P/Y)	Torque Converter Clutch (TCC) Solenoid
38	*925 (W/Y)	Electronic Pressure Control Solenoid	54	-	NOT USED
39	-	NOT USED	55	*924 (BR/O)	Coast Clutch Solenoid
40	570 (BK/W)	Ground	56	395 (GY/O)	PIP Signal
41	*224 (T/W)	Transmission Control Switch (TCS)	57	361 (R)	Ignition (Hot in Start or Run)
42	*923 (O/BK)	Transmission Fluid Temperature (TFT) Sensor	58	555 (T)	Injector (1, 4, 5, 8)
43	348 (P)	A/C Demand Signal	59	556(W)	Injector (2, 3, 6, 7)
44	-	NOT USED	60	570 (BK/W)	Ground
45	358 (LG/BK)	Manifold Absolute Pressure (MAP) Sensor			



# 26-11 ENGINE CONTROLS 5.8L/7.5L (49 STATES OR SUPER DUTY)

1997 F-250 HD/350/SUPER DUTY



**C198 (BLACK)  
VIP  
DATA LINK CONNECTORS**

## CELL 26 CONNECTOR REFERENCE LIST

CONNECTOR	SECTION-PAGE
C101	150-1
C110	150-3
C202	150-6
C250	60-9
C251	60-9
C268	49-3

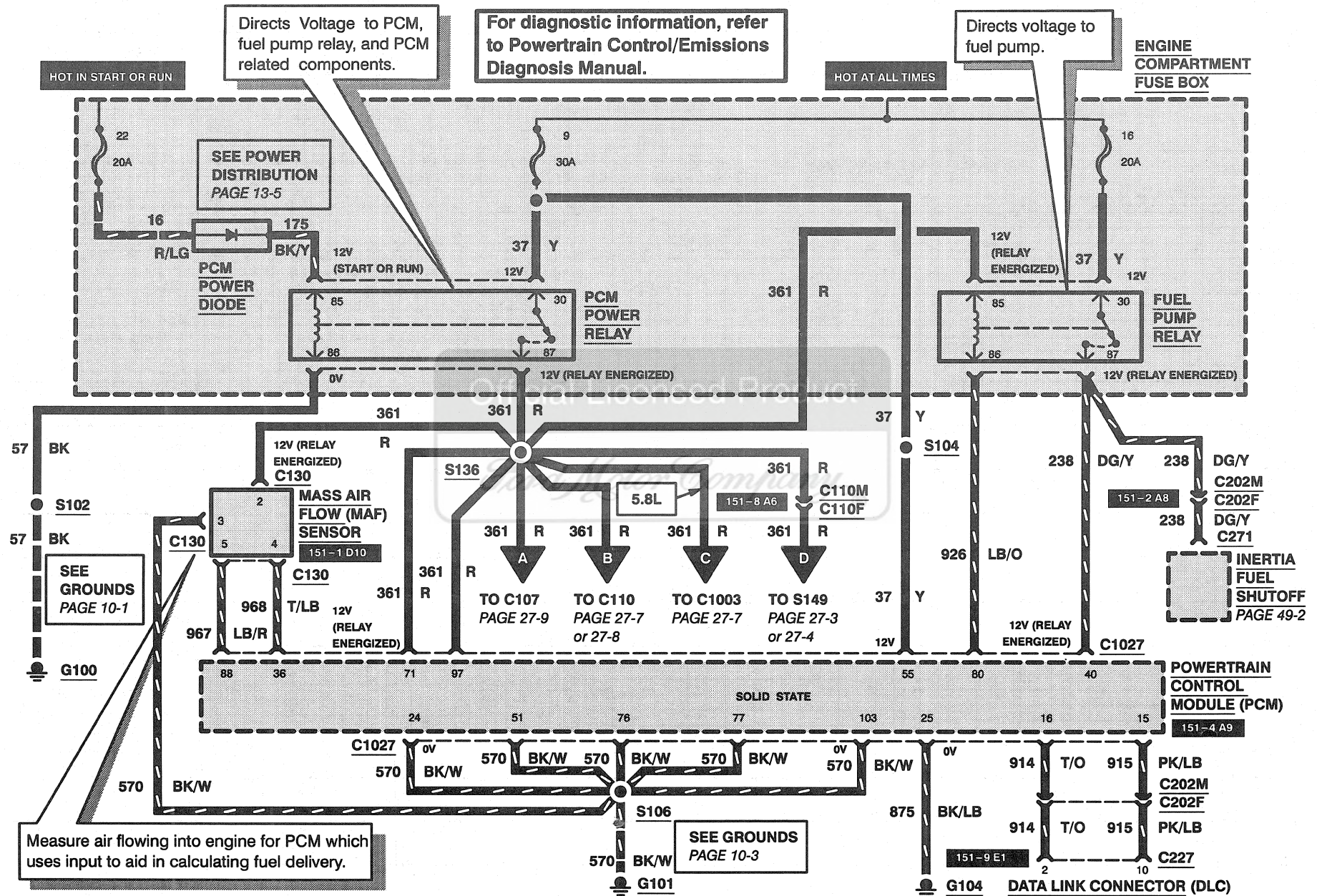
PIN	CIRCUIT	CIRCUIT FUNCTION
1	915 (PK/LB)	Data (-)
2	359 (GY/R)	Signal Return
3	914 (T/O)	Data (+)
4	658 (PK/LG)	Malfunction Indicator Lamp (MIL)
5	-	NOT USED
6	926 (LB/O)	Fuel Pump

Official Licensed Product

*Ford Motor Company*

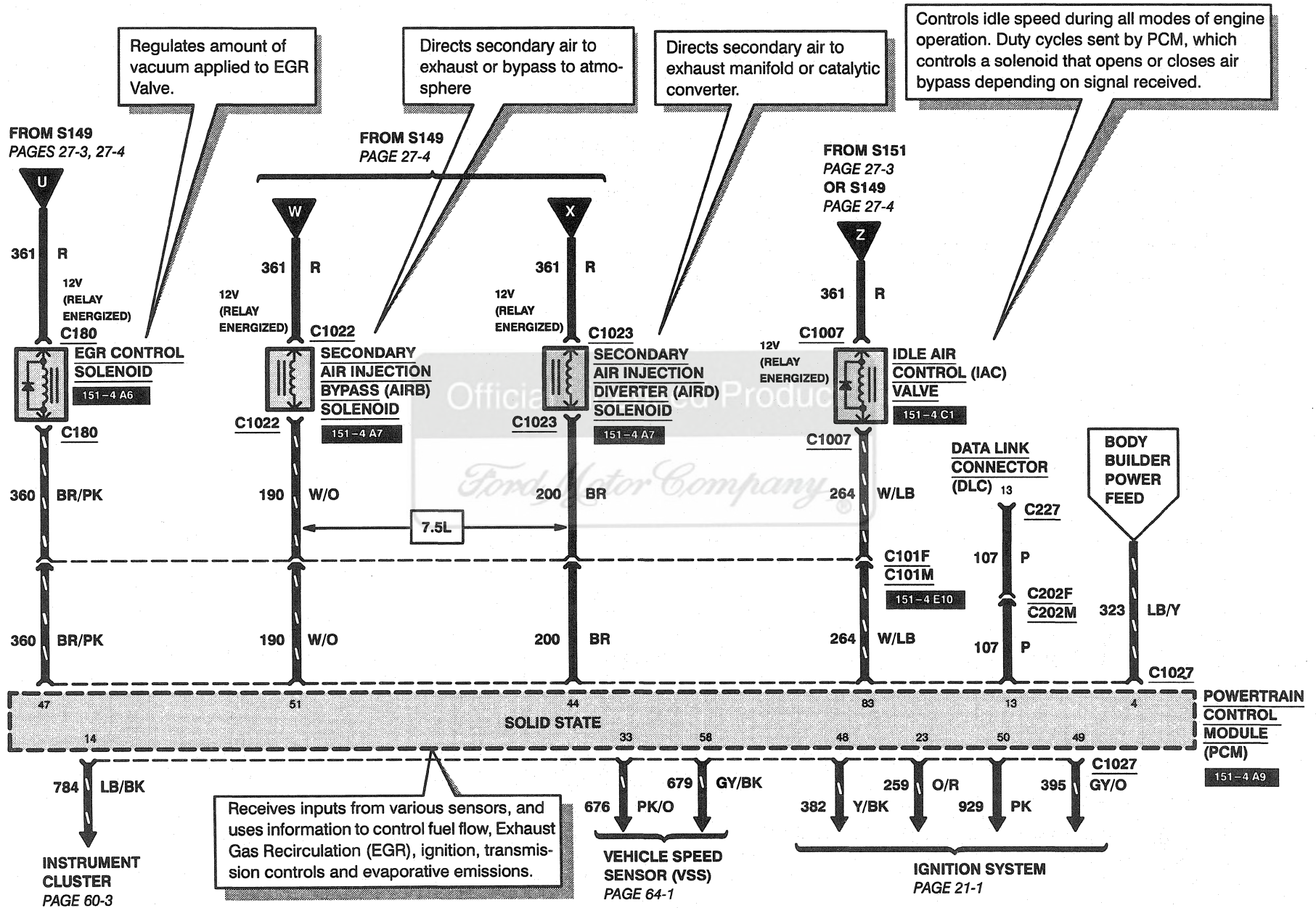
# 27-1 ENGINE CONTROLS 5.8L/7.5L (CALIFORNIA EXCEPT SUPER DUTY)

1997 F-250 HD/350/SUPER DUTY



# ENGINE CONTROLS 5.8L/7.5L (CALIFORNIA EXCEPT SUPER DUTY) 27-2

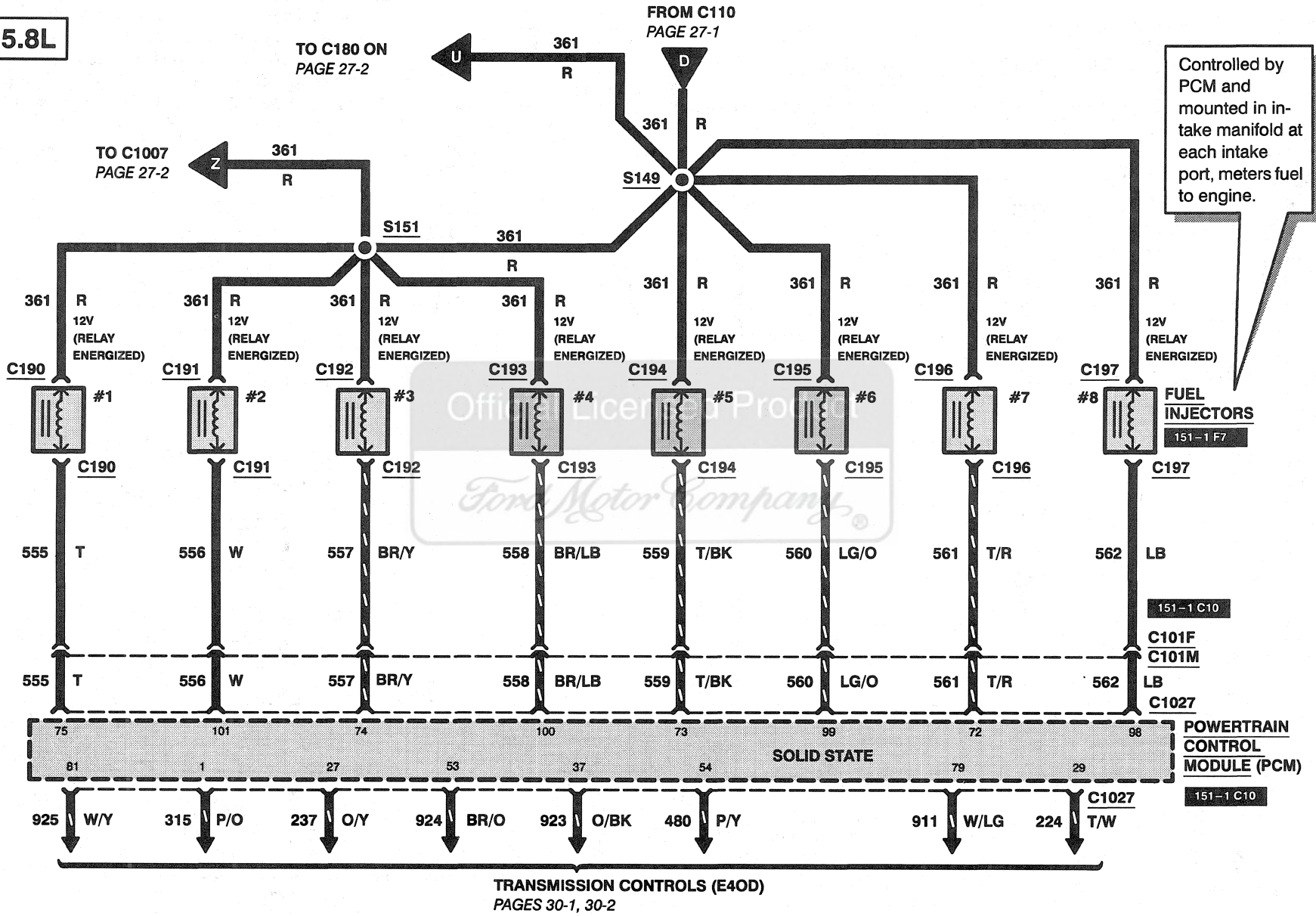
1997 F-250 HD/350/SUPER DUTY



# 27-3 ENGINE CONTROLS 5.8L/7.5L (CALIFORNIA EXCEPT SUPER DUTY)

1997 F-250 HD/350/SUPER DUTY

**5.8L**



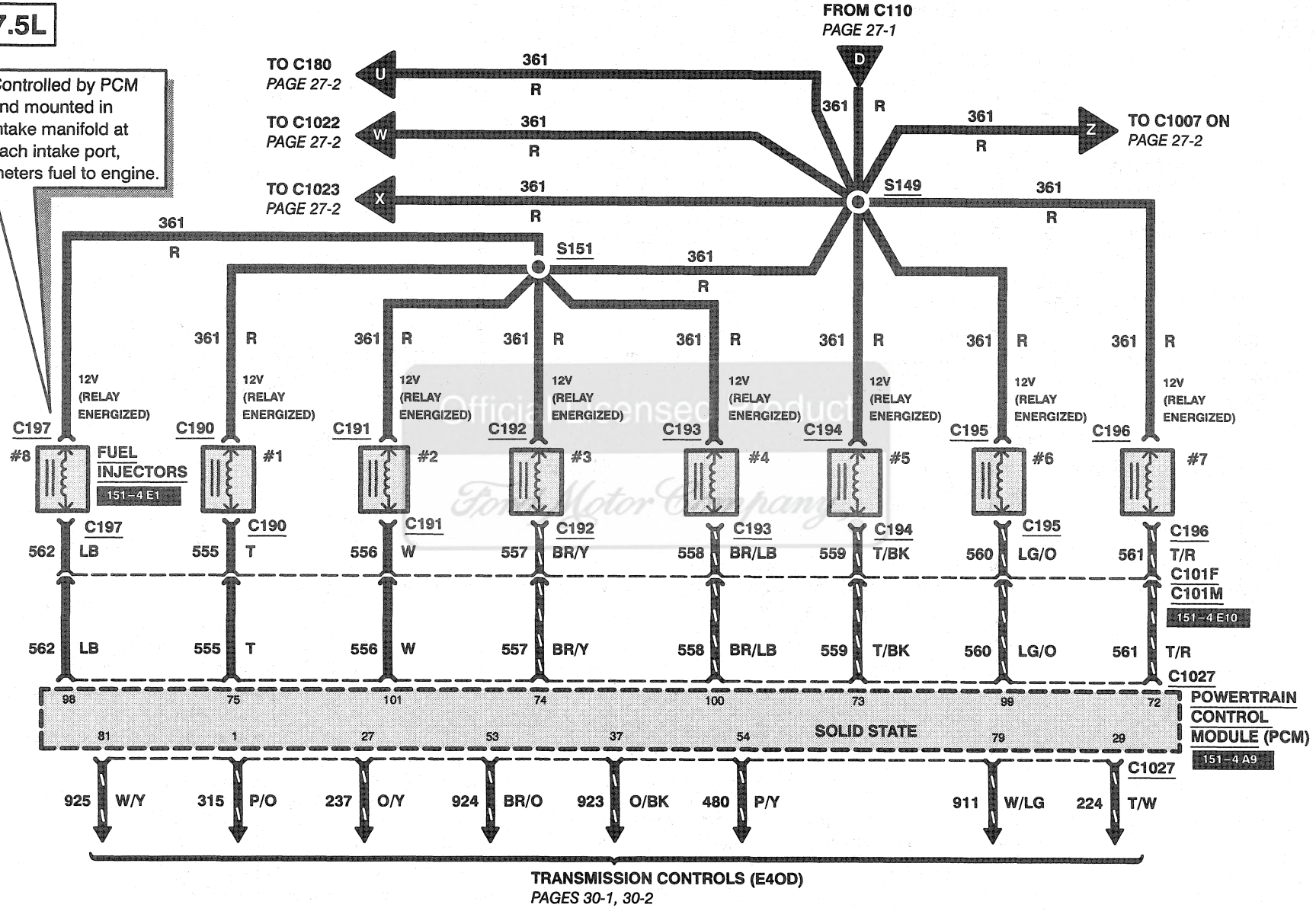


# ENGINE CONTROLS 5.8L/7.5L (CALIFORNIA EXCEPT SUPER DUTY) 27-4

1997 F-250 HD/350/SUPER DUTY

**7.5L**

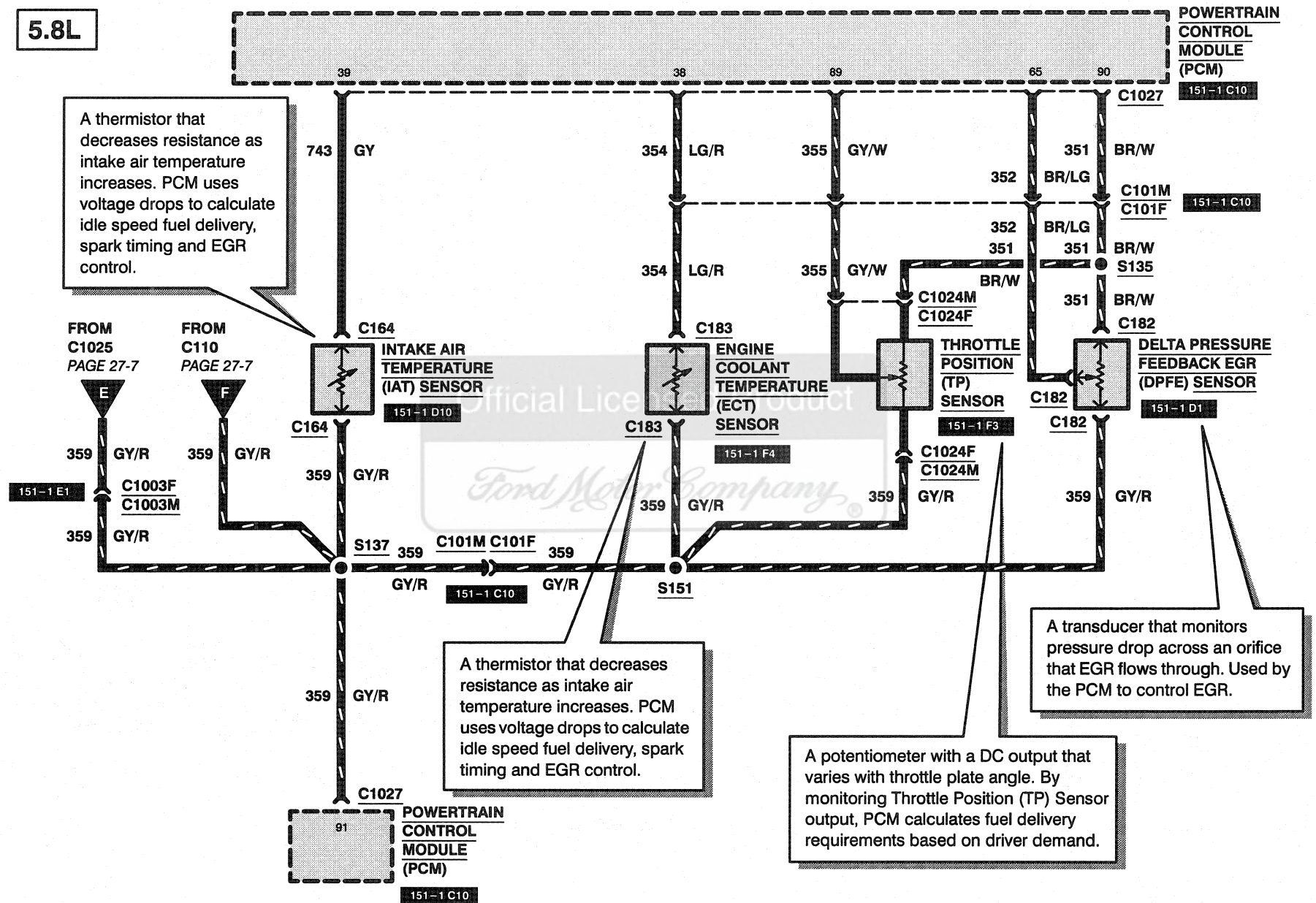
Controlled by PCM and mounted in intake manifold at each intake port, meters fuel to engine.



# 27-5 ENGINE CONTROLS 5.8L/7.5L (CALIFORNIA EXCEPT SUPER DUTY)

1997 F-250 HD/350/SUPER DUTY

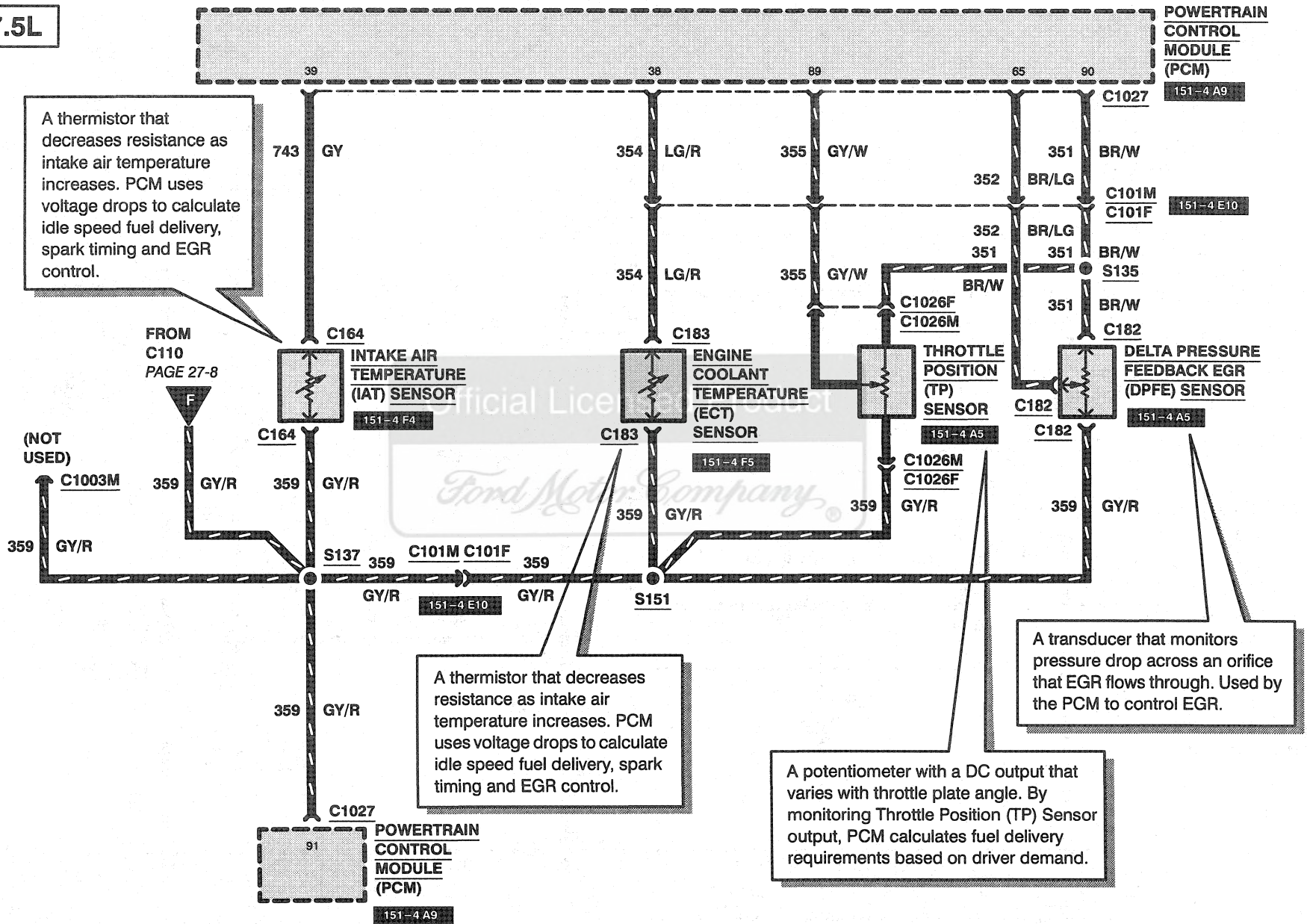
5.8L



# ENGINE CONTROLS 5.8L/7.5L (CALIFORNIA EXCEPT SUPER DUTY) 27-6

1997 F-250 HD/350/SUPER DUTY

7.5L



A thermistor that decreases resistance as intake air temperature increases. PCM uses voltage drops to calculate idle speed fuel delivery, spark timing and EGR control.

A thermistor that decreases resistance as intake air temperature increases. PCM uses voltage drops to calculate idle speed fuel delivery, spark timing and EGR control.

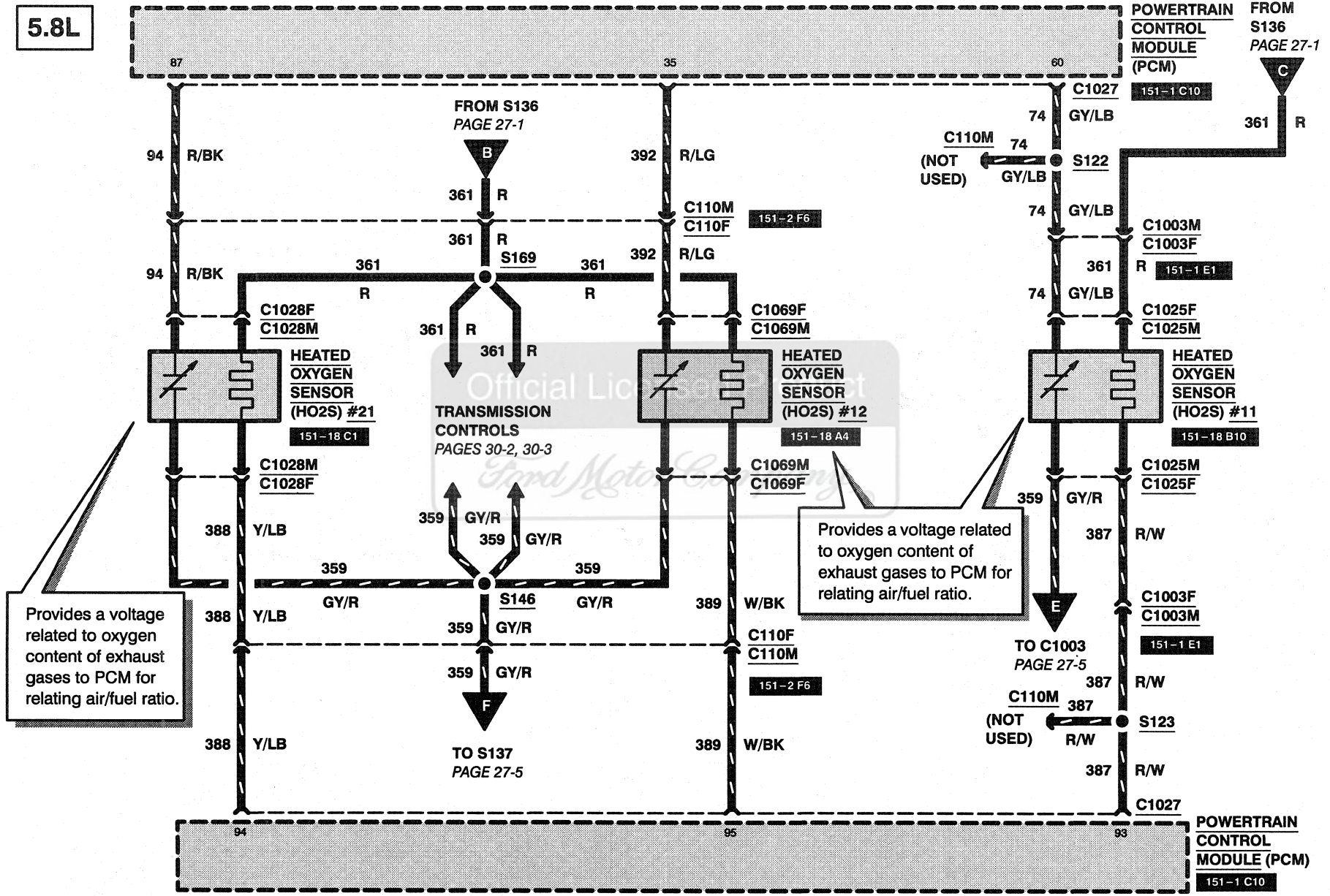
A potentiometer with a DC output that varies with throttle plate angle. By monitoring Throttle Position (TP) Sensor output, PCM calculates fuel delivery requirements based on driver demand.

A transducer that monitors pressure drop across an orifice that EGR flows through. Used by the PCM to control EGR.

# 27-7 ENGINE CONTROLS 5.8L/7.5L (CALIFORNIA EXCEPT SUPER DUTY)

1997 F-250 HD/350/SUPER DUTY

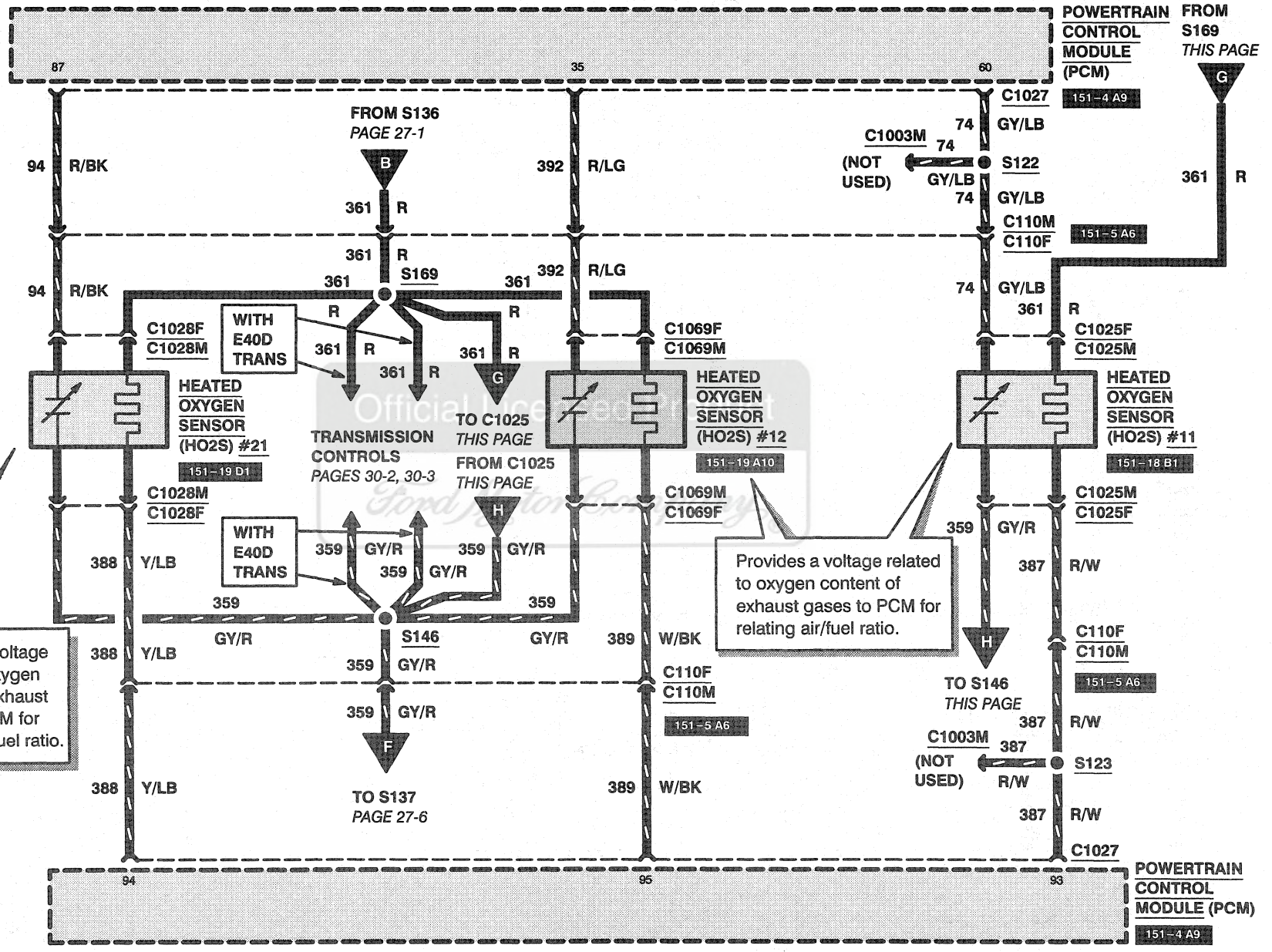
5.8L



# ENGINE CONTROLS 5.8L/7.5L (CALIFORNIA EXCEPT SUPER DUTY)

1997 F-250 HD/350/SUPER DUTY

7.5L



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

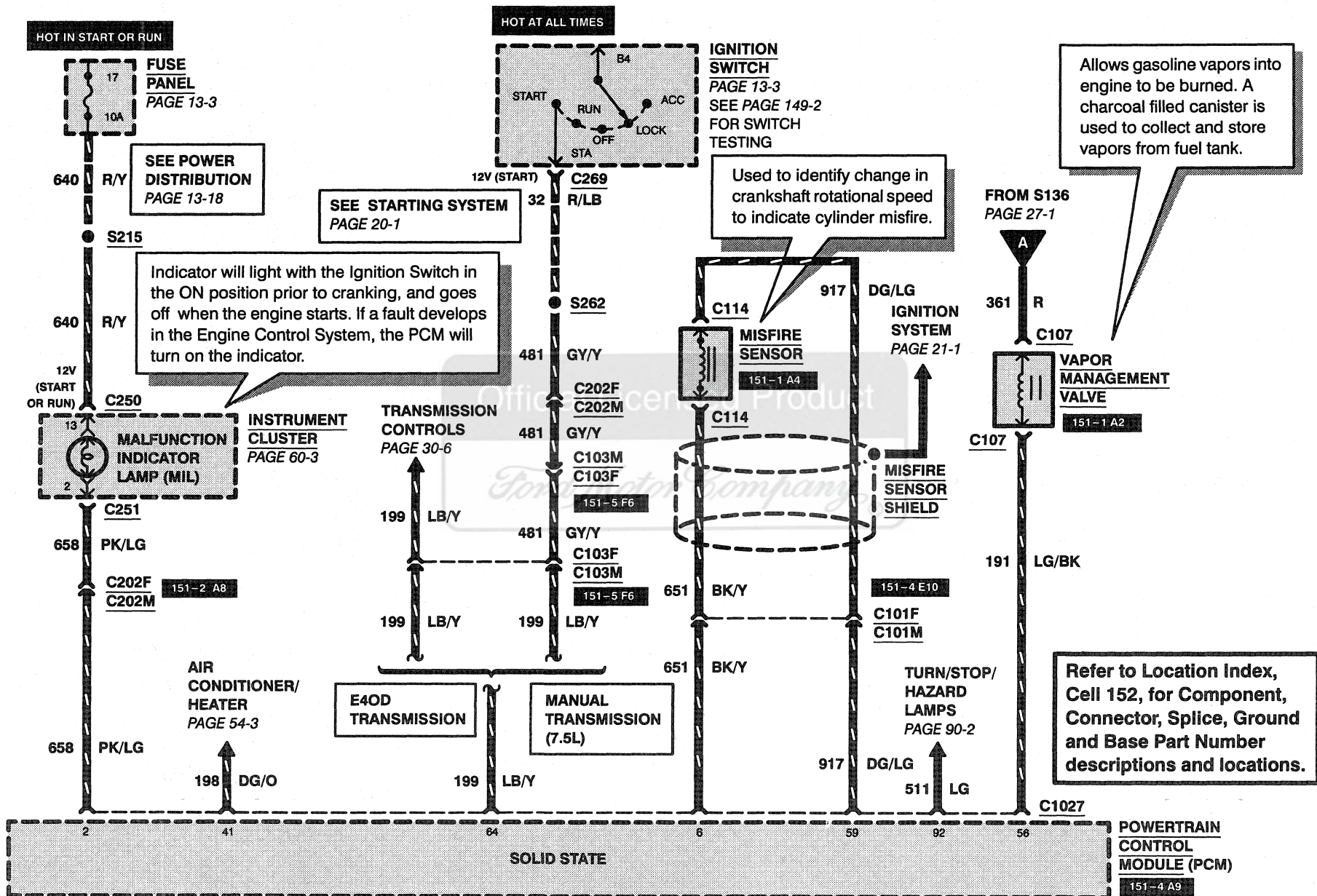
Provides a voltage related to oxygen content of exhaust gases to PCM for relating air/fuel ratio.

POWERTRAIN CONTROL MODULE (PCM) FROM S169 THIS PAGE

POWERTRAIN CONTROL MODULE (PCM) 151-4 A9

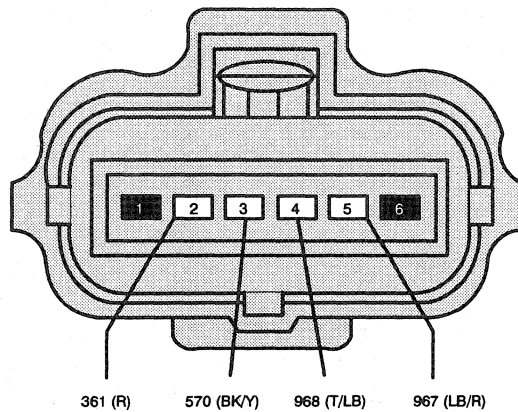
# 27-9 ENGINE CONTROLS 5.8L/7.5L (CALIFORNIA EXCEPT SUPER DUTY)

1997 F-250 HD/350/SUPER DUTY



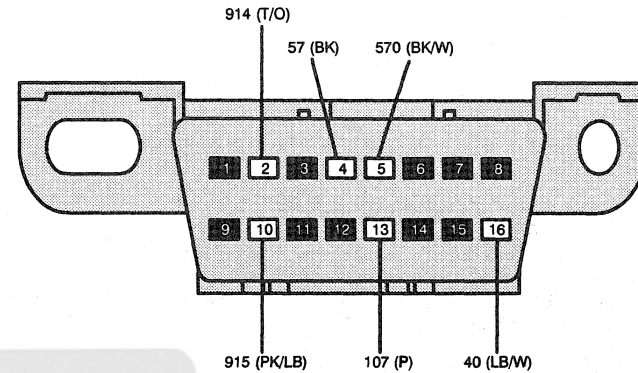
# ENGINE CONTROLS 5.8L/7.5L (CALIFORNIA EXCEPT SUPER DUTY) 27-10

1997 F-250 HD/350/SUPER DUTY



**C130**  
**MASS AIR FLOW (MAF) SENSOR**

PIN	CIRCUIT	CIRCUIT FUNCTION
1	—	NOT USED
2	361 (R)	PCM Power Relay (Hot in Start or Run)
3	570 (BK/Y)	Ground
4	968 (T/LB)	Signal to PCM
5	967 (LB/R)	Signal from PCM
6	—	NOT USED

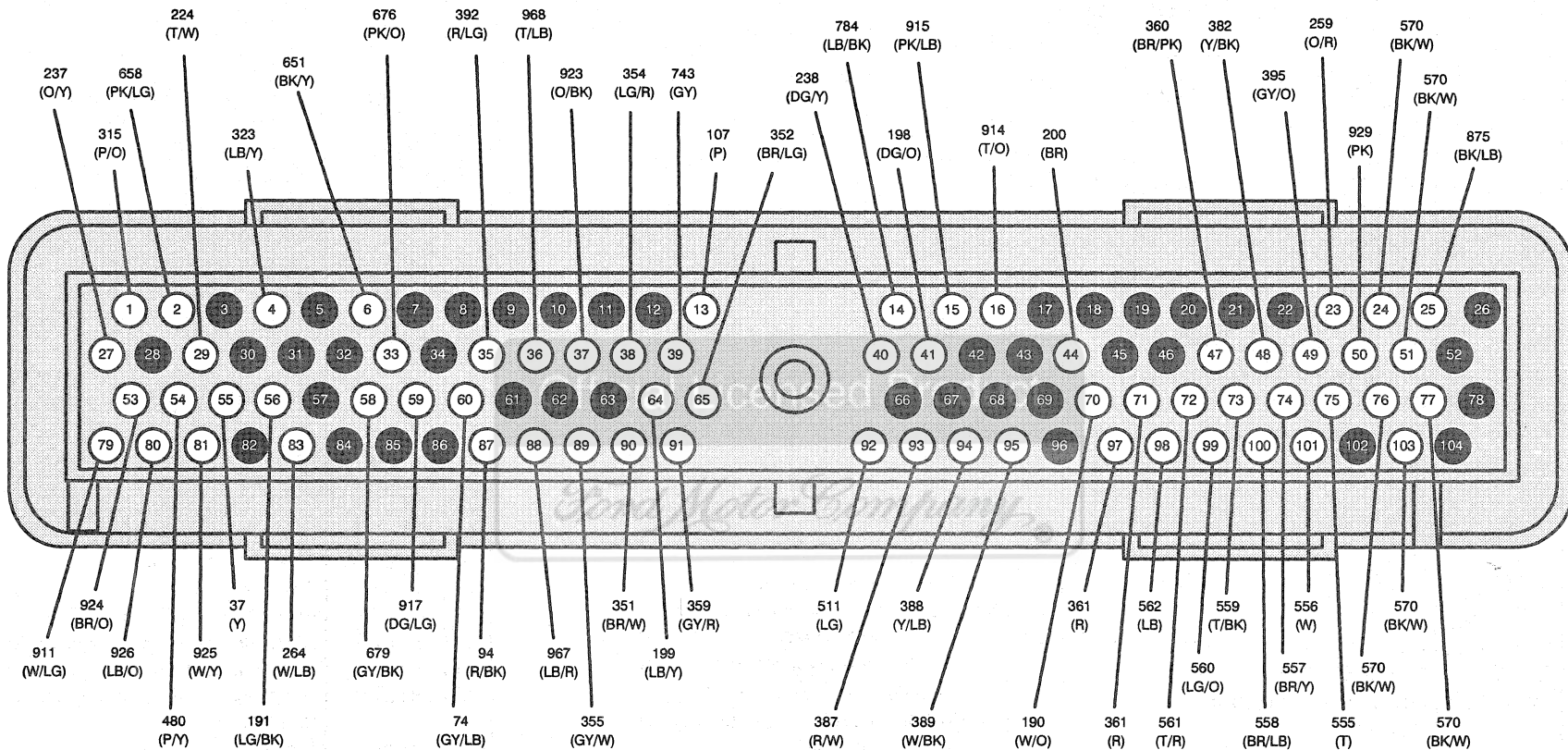


**C227 (BLACK)**  
**DATA LINK CONNECTOR (DLC)**

PIN	CIRCUIT	CIRCUIT FUNCTION
1	—	NOT USED
2	914 (T/O)	Bus (+)
3	—	NOT USED
4	57 (BK)	Ground (Case)
5	570 (BK/W)	Ground
6	—	NOT USED
7	—	NOT USED
8	—	NOT USED
9	—	NOT USED
10	915 (PK/LB)	Bus (-)
11	—	NOT USED
12	—	NOT USED
13	107 (P)	Powertrain Control Module (PCM)
14	—	NOT USED
15	—	NOT USED
16	40 (LB/W)	Power (Hot at All Times)

# 27-11 ENGINE CONTROLS 5.8L/7.5L (CALIFORNIA EXCEPT SUPER DUTY)

1997 F-250 HD/350/SUPER DUTY



**C1027 (GRAY)**

**POWERTRAIN CONTROL MODULE (PCM)**



# ENGINE CONTROLS 5.8L/7.5L (CALIFORNIA EXCEPT SUPER DUTY) 27-12

1997 F-250 HD/350/SUPER DUTY

PIN	CIRCUIT	CIRCUIT FUNCTION	PIN	CIRCUIT	CIRCUIT FUNCTION	PIN	CIRCUIT	CIRCUIT FUNCTION
1	315 (P/O)	Shift Solenoid #2 (E4OD)	35	392 (R/LG)	Heated Oxygen Sensor #12	70	190 (W/O)	Secondary Air Injection Bypass (AIRB) Solenoid (7.5L)
2	658 (PK/LG)	Malfunction Indicator Lamp (MIL)	36	968 (T/LB)	Mass Air Flow (MAF) Sensor Return	71	361 (R)	Power (Hot in Start or Run)
3	—	NOT USED	37	923 (O/BK)	Fluid Temperature (TFT) (E4OD)	72	561 (T/R)	Fuel Injector #7 Output
4	323 (LB/Y)	Body Builder Power Feed	38	354 (LG/R)	Engine Coolant Temperature (ECT) Sensor	73	559 (T/BK)	Fuel Injector #5 Output
5	—	NOT USED	39	743 (GY)	Intake Air Temperature (IAT) Input	74	557 (BR/Y)	Fuel Injector #3 Output
6	651 (BK/Y)	Misfire Sensor Return	40	238 (DG/Y)	Fuel Pump Monitor	75	555 (T)	Fuel Injector #1 Output
7	—	NOT USED	41	198 (DG/O)	A/C Cycling Switch Signal	76	570 (BK/W)	Ground
8	—	NOT USED	42	—	NOT USED	77	570 (BK/W)	Ground
9	—	NOT USED	43	—	NOT USED	78	—	NOT USED
10	—	NOT USED	44	200 (BR)	Secondary Air Injection Diverter (AIRD) Solenoid (7.5L)	79	911 (W/LG)	Transmission Control Indicator Lamp (E4OD)
11	—	NOT USED	45	—	NOT USED	80	926 (LB/O)	Fuel Pump Enable
12	—	NOT USED	46	—	NOT USED	81	925 (W/Y)	Electronic Pressure Control (EPC) (E4OD)
13	107 (P)	Data Link FEPS	47	360 (BR/PK)	EGR Control Solenoid Input	82	—	NOT USED
14	784 (LB/BK)	Indicator Lamp to Low Range SW 4x4	48	382 (Y/BK)	Ignition Diagnostic Monitor (IDM)	83	264 (W/LB)	Idle Air Control (IAC) Valve Output
15	915 (PK/LB)	Data Link (-)	49	395 (GY/O)	Crankshaft Position (CKP) Sensor	84	—	NOT USED
16	914 (T/O)	Data Link (+)	50	929 (PK)	Spark Signal Output (SPOUT)	85	—	NOT USED
17	—	NOT USED	51	570 (BK/W)	Ground	86	—	NOT USED
18	—	NOT USED	52	—	NOT USED	87	94 (R/BK)	Heated Oxygen Sensor #21
19	—	NOT USED	53	924 (BR/O)	Coast Clutch Solenoid (E4OD)	88	967 (LB/R)	Mass Air Flow Sensor
20	—	NOT USED	54	480 (P/Y)	Torque Converter Clutch (TCC) Solenoid (E4OD)	89	355 (GY/W)	Throttle Position (TP) Sensor
21	—	NOT USED	55	37 (Y)	Keep Alive Power	90	351 (BR/W)	Reference Voltage Output
22	—	NOT USED	56	191 (LG/BK)	Vapor Management Valve	91	359 (GY/R)	Signal Return
23	259 (O/R)	Ignition Ground	57	—	NOT USED	92	511 (LG)	Brake ON/OFF (BOO) Switch Input
24	570 (BK/W)	Ground	58	679 (GY/BK)	Vehicle Speed Sensor (VSS) Input	93	387 (R/W)	HEGO Sensor Heater Voltage Monitor #11
25	875 (BK/LB)	Ground	59	917 (DG/LG)	Misfire Sensor Input	94	388 (Y/LB)	HEGO Sensor Heater Voltage Monitor #21
26	—	NOT USED	60	74 (GY/LB)	Heated Oxygen Sensor #11	95	389 (W/BK)	HEGO Sensor Heater Voltage Monitor #12
27	237 (O/Y)	Shift Solenoid #1 (E4OD)	61	—	NOT USED	96	—	NOT USED
28	—	NOT USED	62	—	NOT USED	97	361 (R)	Power (Hot in Start or Run)
29	224 (T/W)	Transmission Control Switch (TCS) (E4OD)	63	—	NOT USED	98	562 (LB)	Fuel Injector #8 Output
30	—	NOT USED	64	199 (LB/Y)	Transmission Range (TR) Sensor with (E4OD) or CPP (With Manual Transmission)	99	560 (LG/O)	Fuel Injector #6 Output
31	—	NOT USED	65	352 (BR/LG)	Delta Pressure Feedback EGR (DPFE) Sensor	100	558 (BR/LB)	Fuel Injector #4 Output
32	—	NOT USED	66	—	NOT USED	101	556 (W)	Fuel Injector #2 Output
33	676 (PK/O)	Vehicle Speed Sensor (VSS) Ground	67	—	NOT USED	102	—	NOT USED
34	—	NOT USED	68	—	NOT USED	103	570 (BK/W)	Ground
			69	—	NOT USED	104	—	NOT USED

# 27-13 ENGINE CONTROLS 5.8L/7.5L (CALIFORNIA EXCEPT SUPER DUTY)

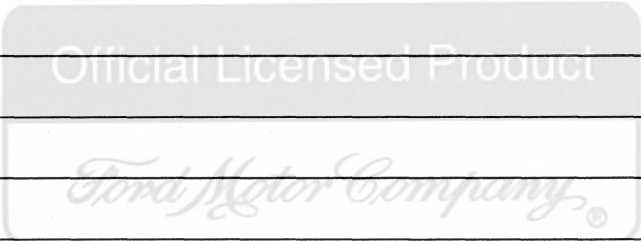
1997 F-250 HD/350/SUPER DUTY

## CONNECTOR REFERENCE LIST

CONNECTOR	SECTION-PAGE
C101	150-1
C103	150-2
C110	150-3
C202	150-6, 7
C250	60-9
C251	60-9
C269	13-24, 20-5 149-2

Official Licensed Product

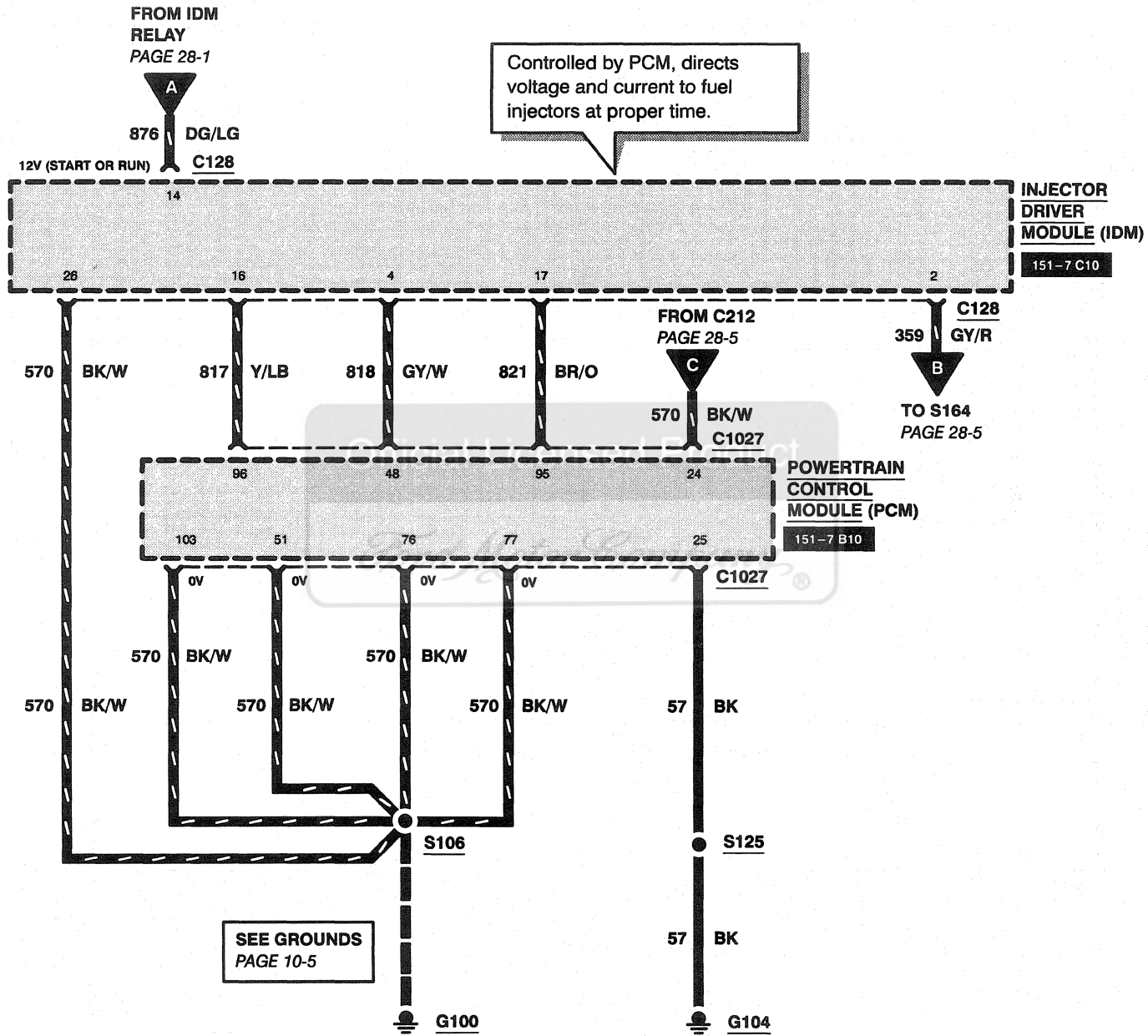
*Ford Motor Company*





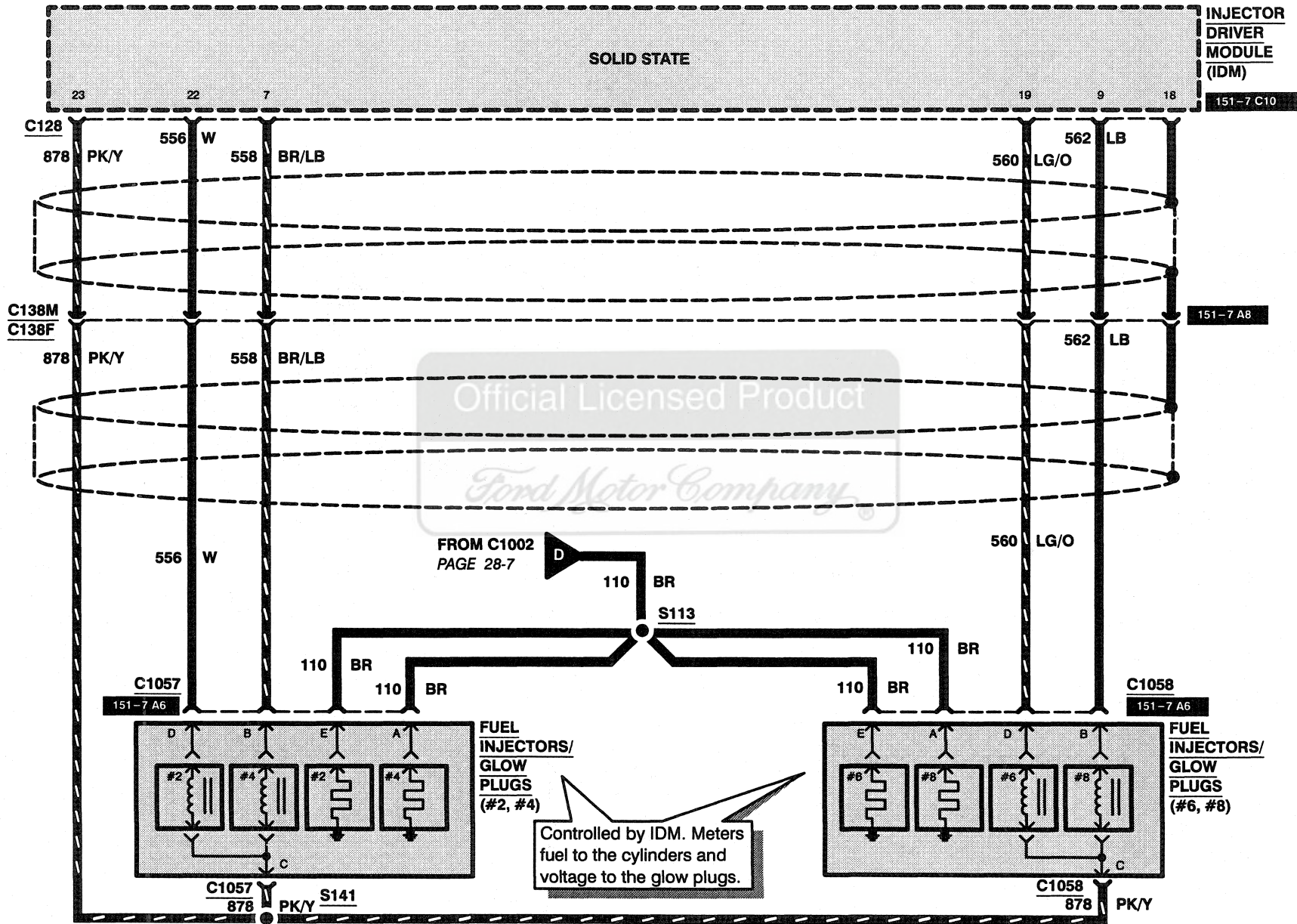
# ENGINE CONTROLS (7.3L DI TURBO DIESEL) 28-2

1997 F-250 HD/350/SUPER DUTY



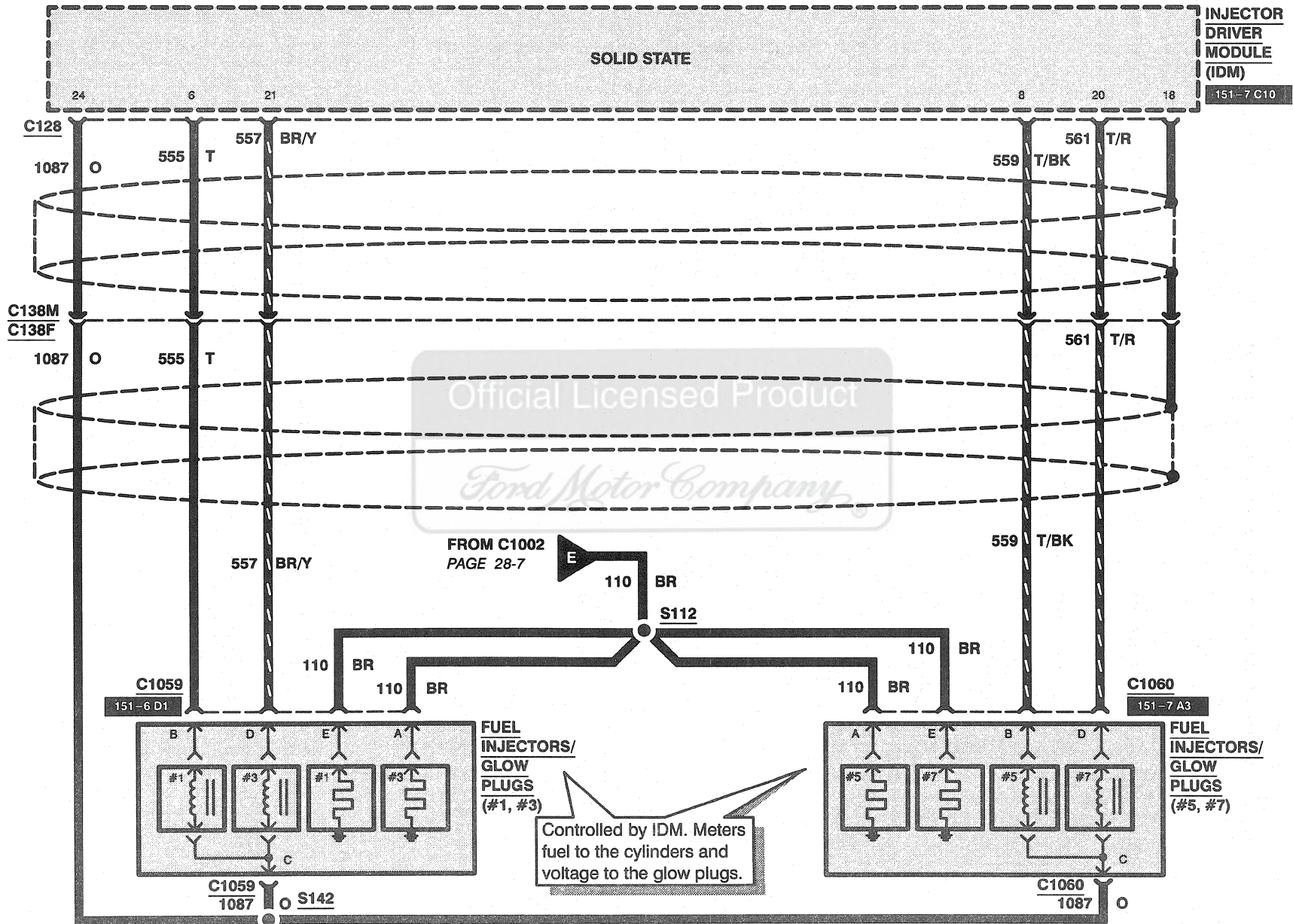
# 28-3 ENGINE CONTROLS (7.3L DI TURBO DIESEL)

1997 F-250 HD/350/SUPER DUTY



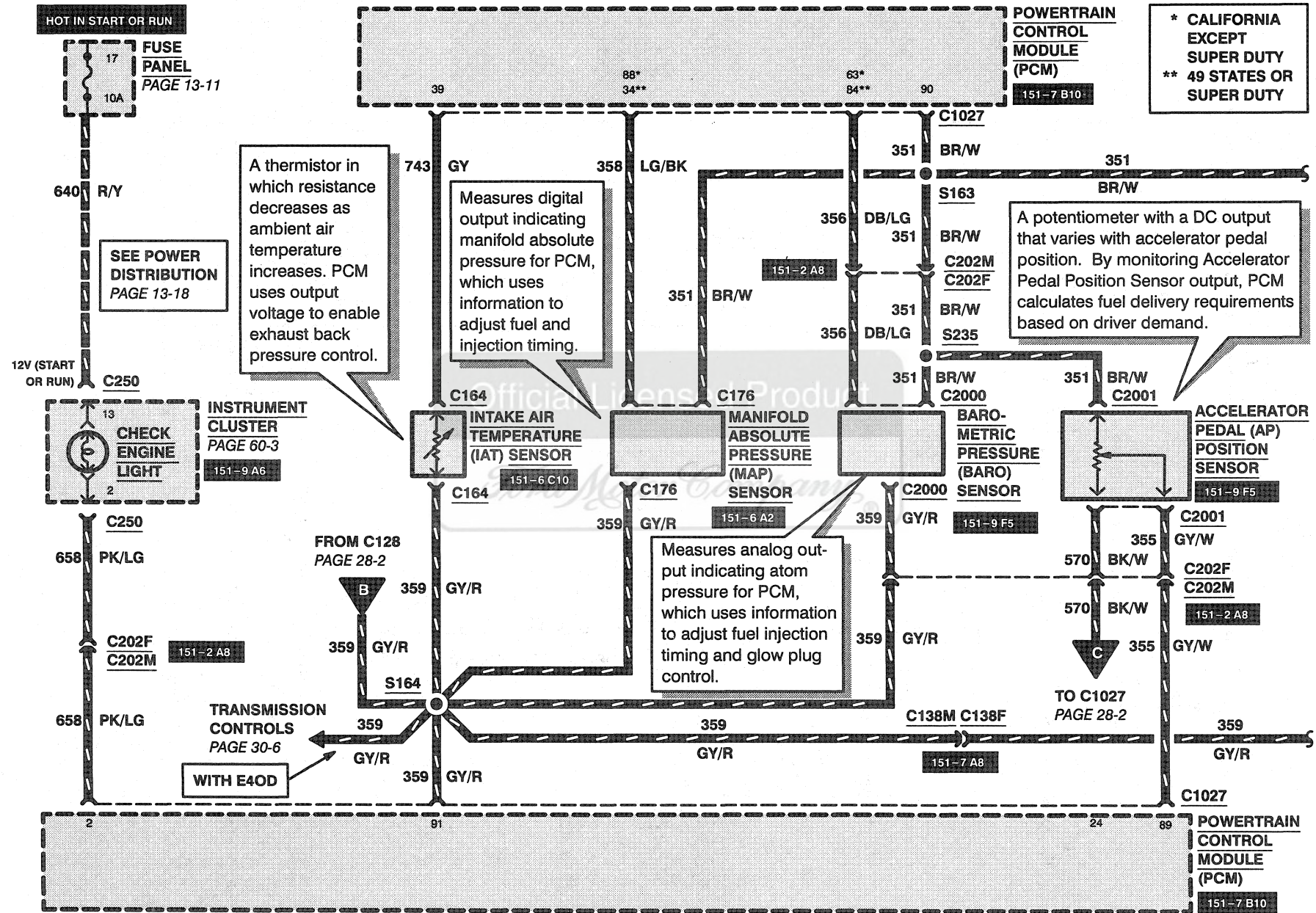
# ENGINE CONTROLS (7.3L DI TURBO DIESEL) 28-4

1997 F-250 HD/350/SUPER DUTY



# 28-5 ENGINE CONTROLS (7.3L DI TURBO DIESEL)

1997 F-250 HD/350/SUPER DUTY

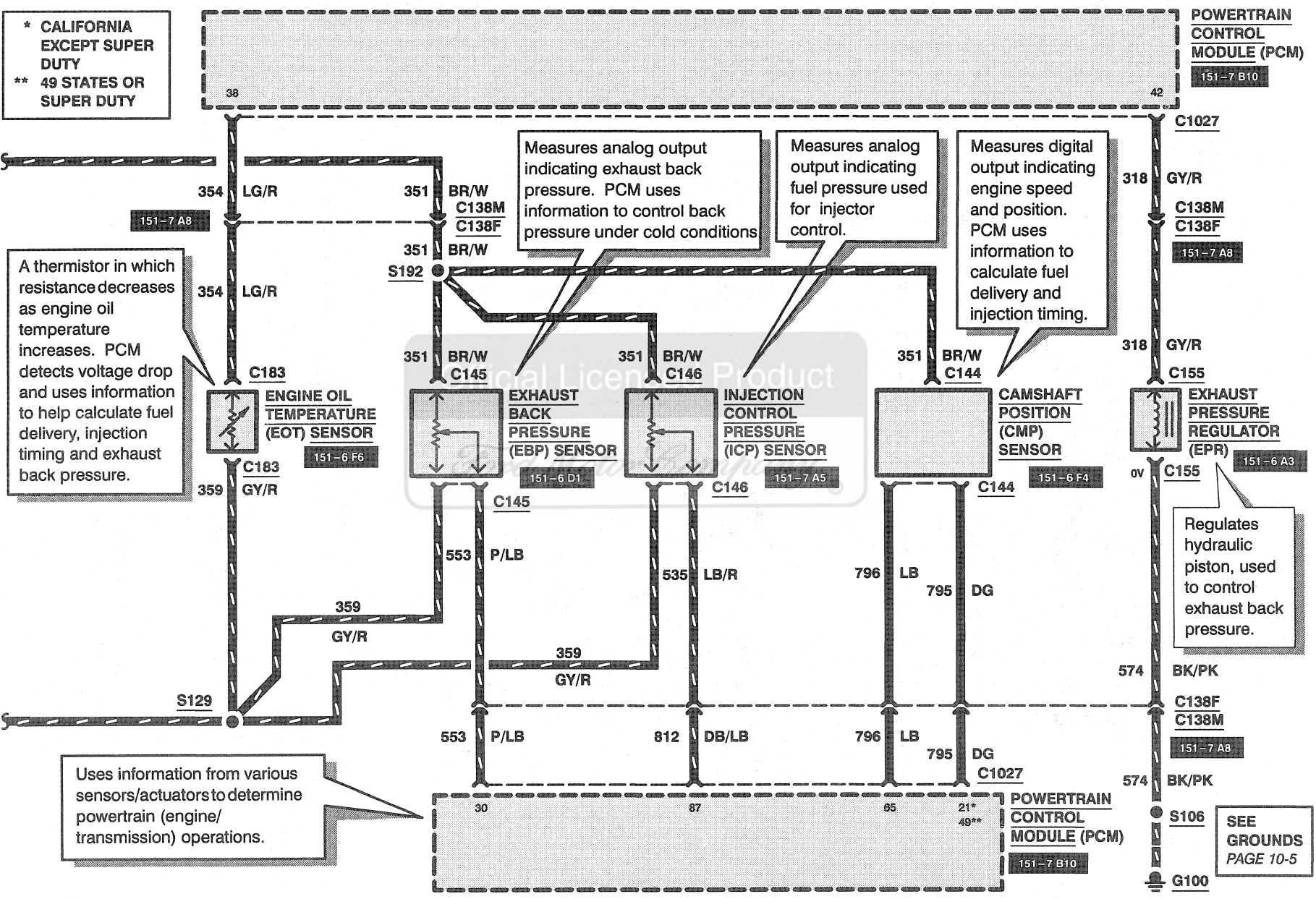




# ENGINE CONTROLS (7.3L DI TURBO DIESEL) 28-6

1997 F-250 HD/350/SUPER DUTY

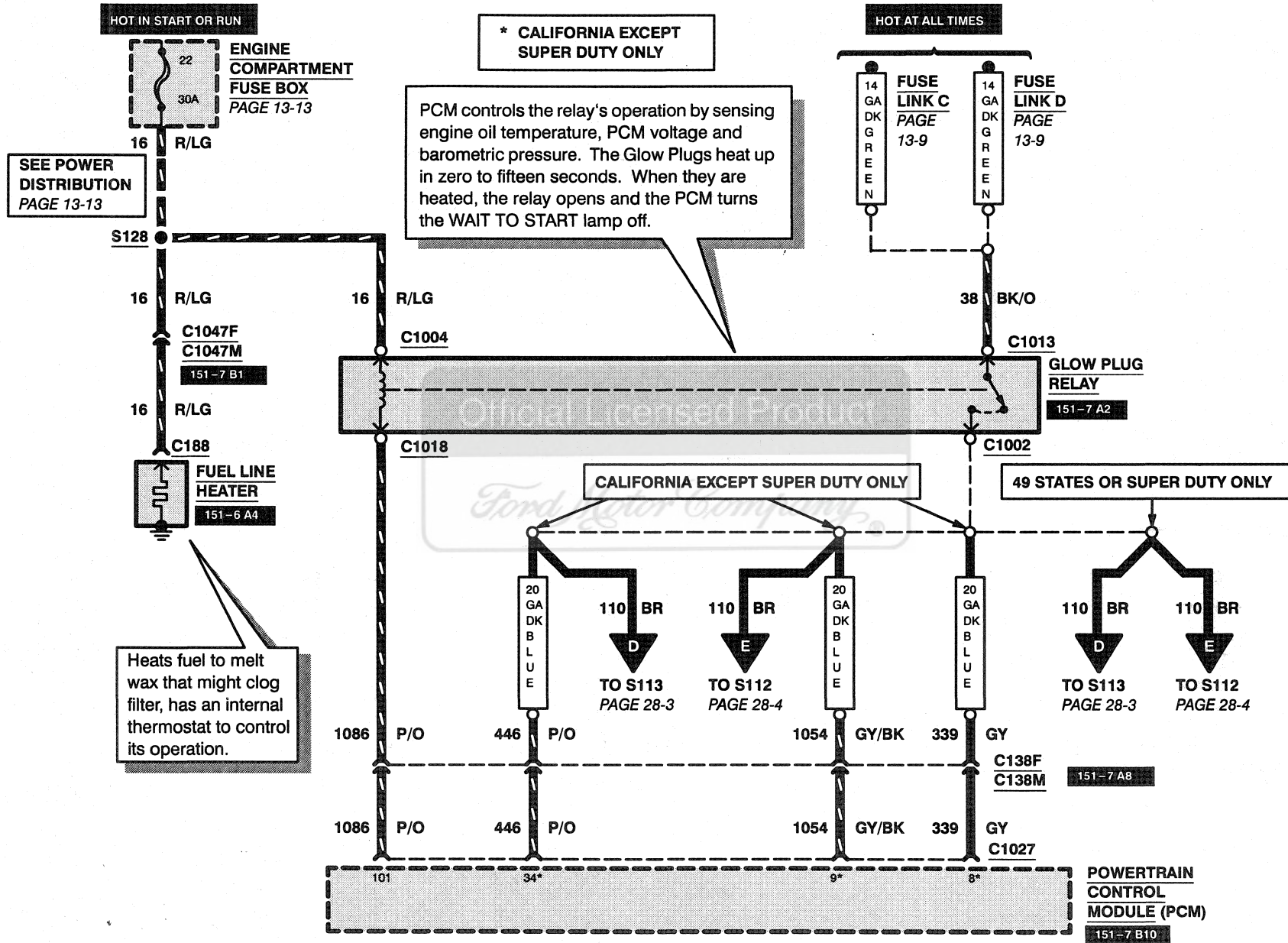
\* CALIFORNIA EXCEPT SUPER DUTY  
 \*\* 49 STATES OR SUPER DUTY



SEE GROUNDS PAGE 10-5

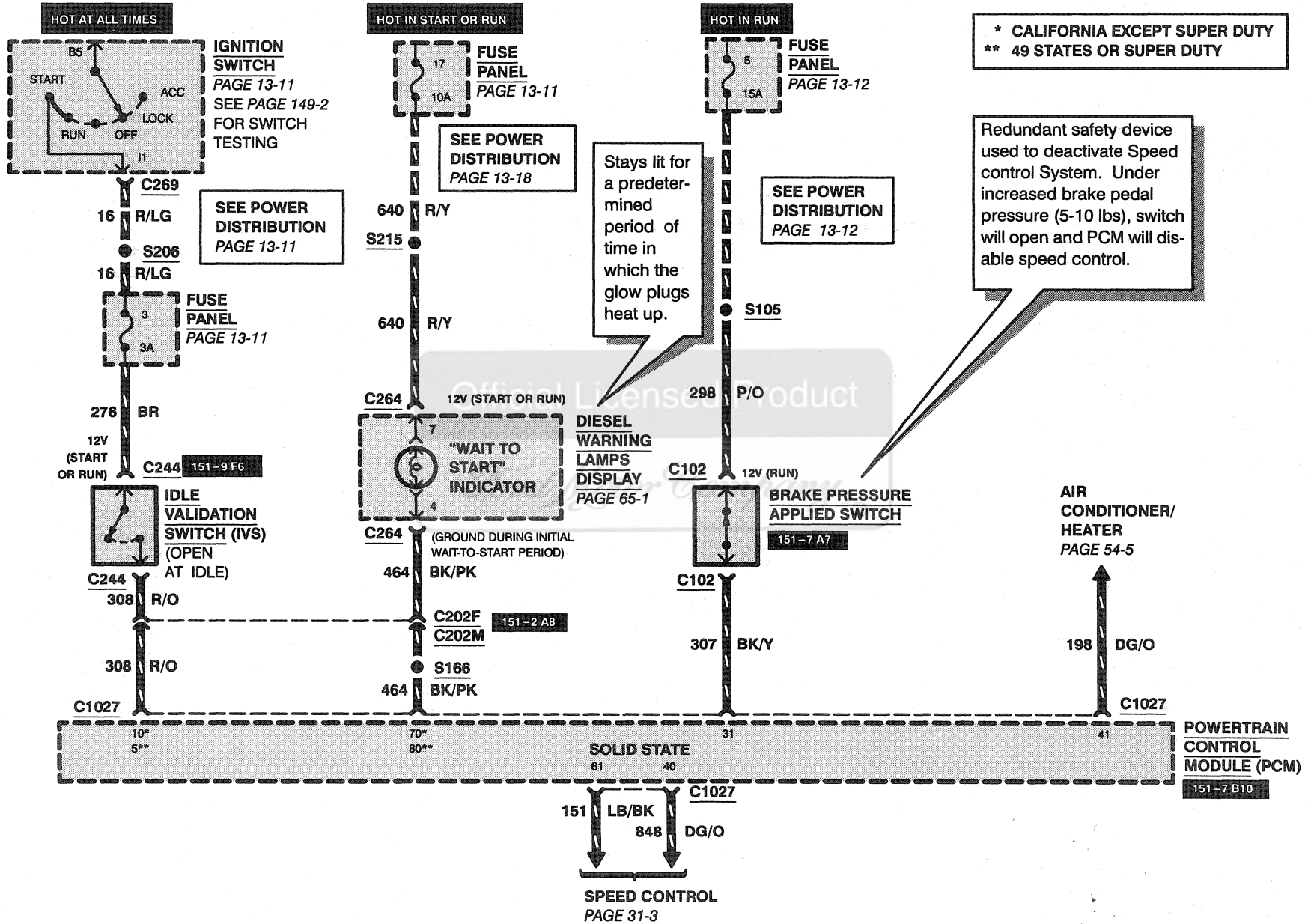
# 28-7 ENGINE CONTROLS (7.3L DI TURBO DIESEL)

1997 F-250 HD/350/SUPER DUTY



# ENGINE CONTROLS (7.3L DI TURBO DIESEL) 28-8

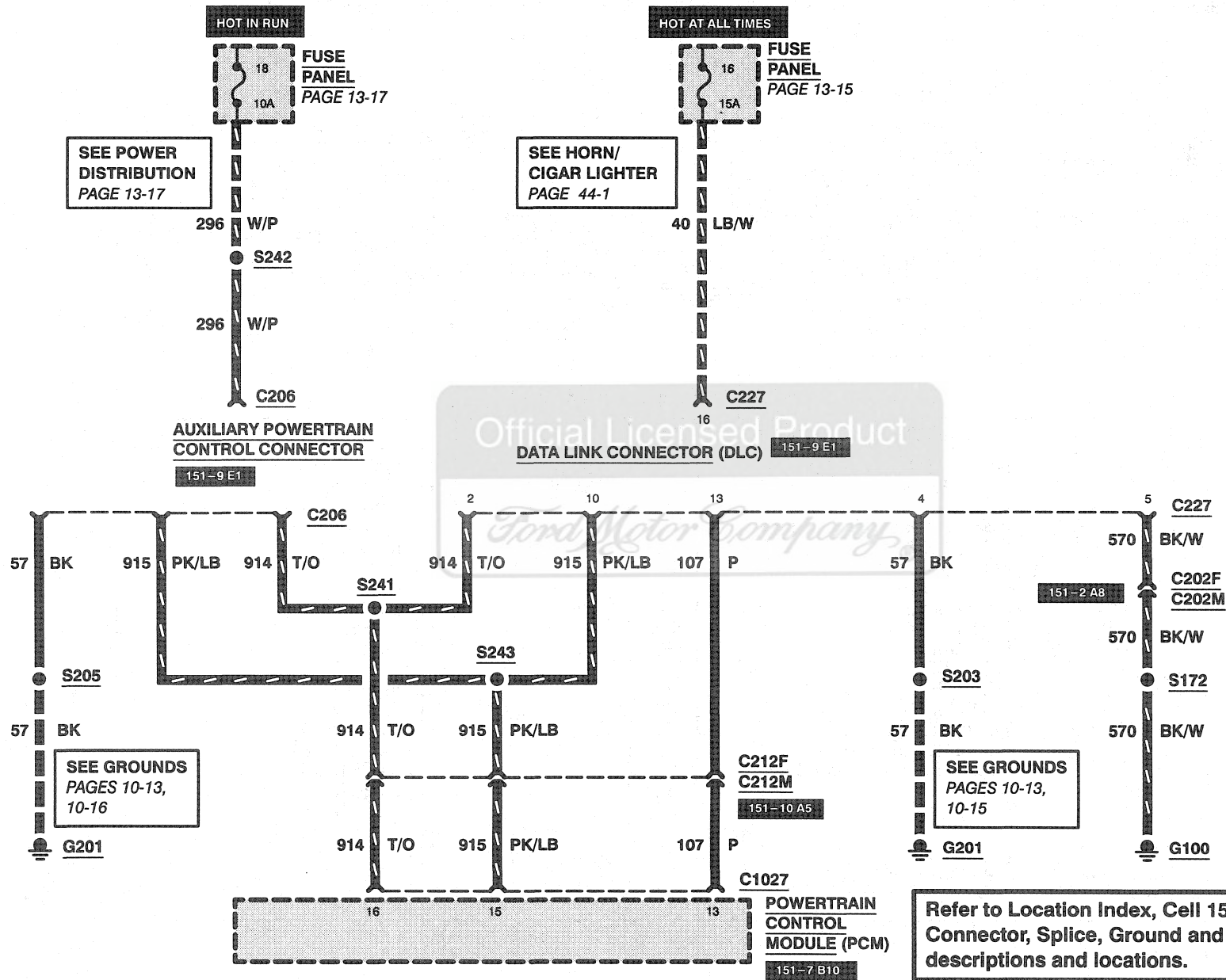
1997 F-250 HD/350/SUPER DUTY





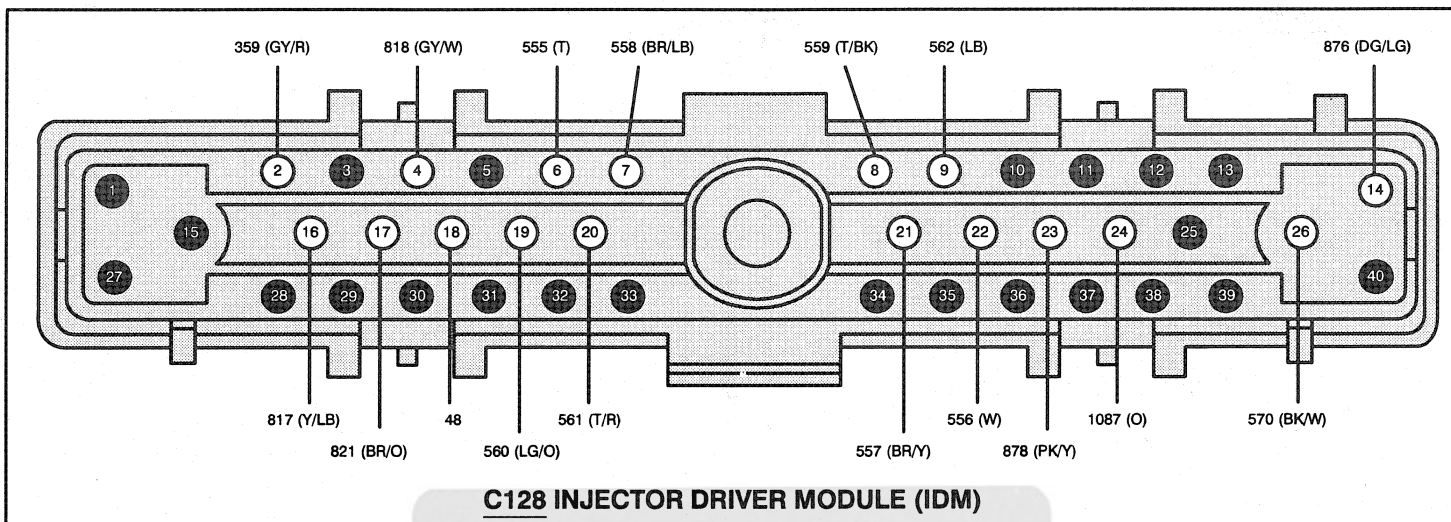
# ENGINE CONTROLS (7.3L DI TURBO DIESEL) 28-10

1997 F-250 HD/350/SUPER DUTY



# 28-11 ENGINE CONTROLS (7.3L DI TURBO DIESEL)

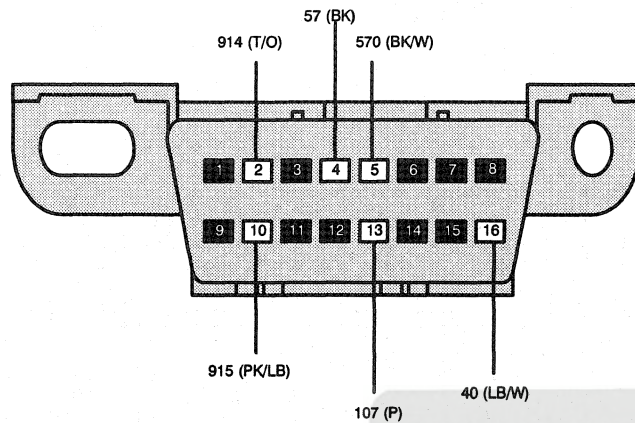
1997 F-250 HD/350/SUPER DUTY



PIN	CIRCUIT	CIRCUIT FUNCTION	PIN	CIRCUIT	CIRCUIT FUNCTION
1	—	NOT USED	21	557 (BR/Y)	Fuel Injector #3
2	359 (GY/R)	Signal Return	22	556 (W)	Fuel Injector #2
3	—	NOT USED	23	878 (PK/Y)	Fuel Injector Feed Left
4	818 (GY/W)	IDM Feedback Signal Output	24	1087 (O)	Fuel Injector Feed Right
5	—	NOT USED	25	—	NOT USED
6	555 (T)	Fuel Injector #1	26	570 (BK/W)	Ground
7	558 (BR/LB)	Fuel Injector #4	27	—	NOT USED
8	559 (T/BK)	Fuel Injector #5	28	—	NOT USED
9	562 (LB)	Fuel Injector #8	29	—	NOT USED
10	—	NOT USED	30	—	NOT USED
11	—	NOT USED	31	—	NOT USED
12	—	NOT USED	32	—	NOT USED
13	—	NOT USED	33	—	NOT USED
14	876 (DG/LG)	Power Input	34	—	NOT USED
15	—	NOT USED	35	—	NOT USED
16	817 (Y/LB)	Cylinder Identification Signal Input	36	—	NOT USED
17	821 (BR/O)	Fuel Delivery Command Signal Input	37	—	NOT USED
18	48	Injector Shield Ground	38	—	NOT USED
19	560 (LG/O)	Fuel Injector #6	39	—	NOT USED
20	561 (T/R)	Fuel Injector #7	40	—	NOT USED

# ENGINE CONTROLS (7.3L DI TURBO DIESEL) 28-12

1997 F-250 HD/350/SUPER DUTY



**C227**

**DATA LINK CONNECTOR**

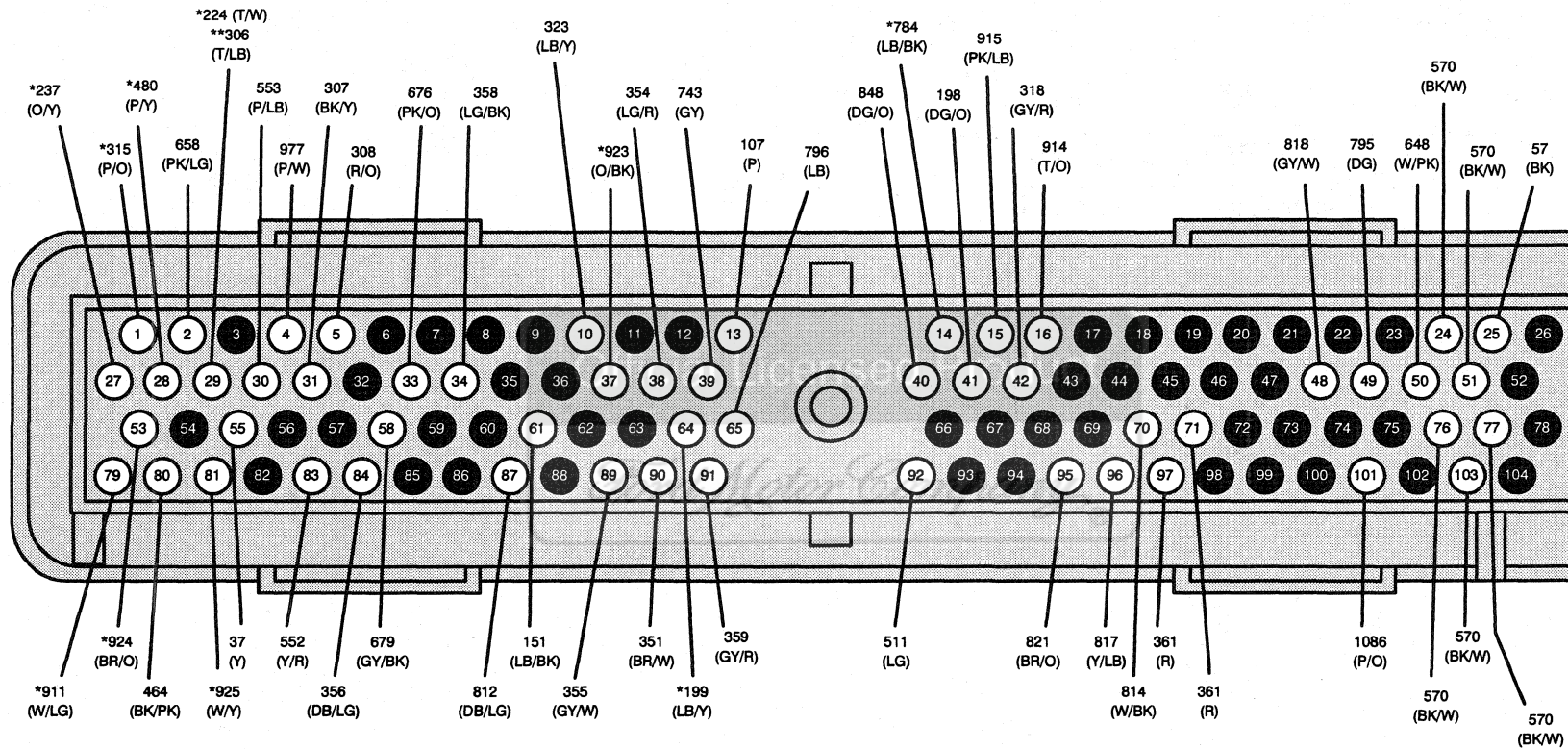
PIN	CIRCUIT	CIRCUIT FUNCTION
1	-	NOT USED
2	914 (T/O)	Data (+)
3	-	NOT USED
4	57 (BK)	Ground
5	570 (BK/W)	Ground
6	-	NOT USED
7	-	NOT USED
8	-	NOT USED
9	-	NOT USED
10	915 (PK/LB)	Data (-)
11	-	NOT USED
12	-	NOT USED
13	107 (P)	PCM Input
14	-	NOT USED
15	-	NOT USED
16	40 (LB/W)	Hot at All Times

# 28-13 ENGINE CONTROLS (7.3L DI TURBO DIESEL)

1997 F-250 HD/350/SUPER DUTY

49 STATES OR SUPER DUTY

\* E4OD TRANS  
\*\* MANUAL TRANS



C1027 (GRAY)

POWERTRAIN CONTROL MODULE (PCM) (7.3L DI TURBO)



# ENGINE CONTROLS (7.3L DI TURBO DIESEL) 28-14

1997 F-250 HD/350/SUPER DUTY

## 49 STATES OR SUPER DUTY

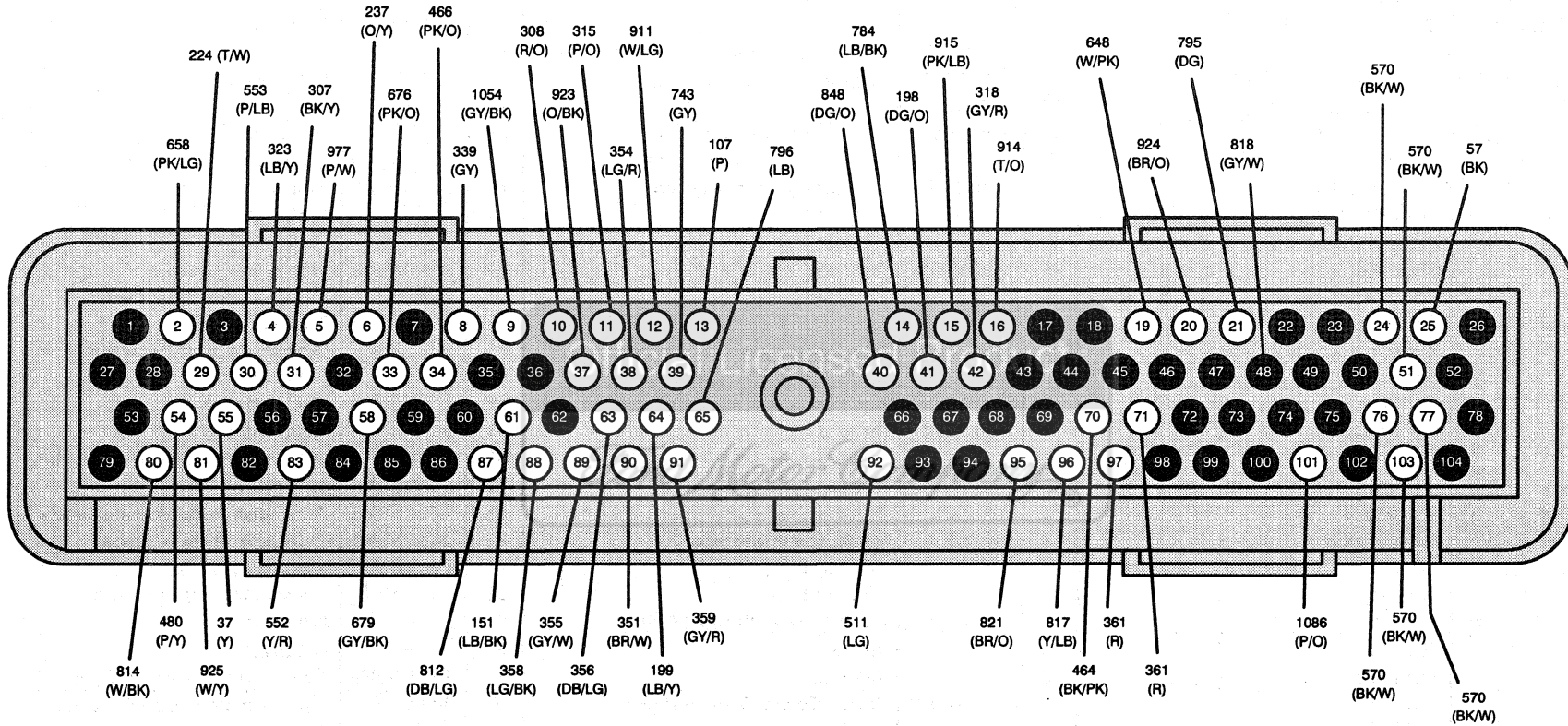
\* E4OD TRANS  
\*\* MANUAL TRANS

PIN	CIRCUIT	CIRCUIT FUNCTION	PIN	CIRCUIT	CIRCUIT FUNCTION	PIN	CIRCUIT	CIRCUIT FUNCTION
1	315 (P/O)*	Shift Solenoid #2	35	-	Not Used	70	814 (W/BK)	IDM Enable Output
2	658 (PK/LG)	Check Engine Light	36	-	Not Used	71	361 (R)	Power Input
3	-	Not Used	37	*923 (O/BK)	Transmission Fluid Temperature Sensor	72	-	Not Used
4	977 (P/W)	Brake Warning Indicator	38	354 (LG/R)	Engine Oil Temperature Sensor	73	-	Not Used
5	308 (R/O)	Idle Validation Switch	39	743 (GY)	Ambient Air Temperature Input	74	-	Not Used
6	-	Not Used	40	848 (DG/O)	Speed Control Ground	75	-	Not Used
7	-	Not Used	41	198 (DG/O)	A/C Cycle Pressure Switch Input	76	570 (BK/W)	Ground
8	-	Not Used	42	318 (GY/R)	Exhaust Pressure Regulator	77	570 (BK/W)	Ground
9	-	Not Used	43	-	Not Used	78	-	Not Used
10	323 (LB/Y)	Power Take-off Feed	44	-	Not Used	79	*911 (W/LG)	Transmission Control Indicator Lamp
11	-	Not Used	45	-	Not Used	80	464 (BK/PK)	Wait to Start Output
12	-	Not Used	46	-	Not Used	81	*925 (W/Y)	Electronic Pressure Control
13	107 (P)	Generic Scan Tool Input	47	-	Not Used	82	-	Not Used
14	784 (LB/BK)*	4x4 Low Input	48	818 (GY/W)	IDM Signal Input	83	552 (Y/R)	Injection Pressure Regulator
15	915 (PK/LB)	Generic Scan Tool Input	49	795 (DG)	CAM Position Sensor	84	356 (DB/LG)	BARO Sensor
16	914 (T/O)	Auxiliary Powertrain Control Input	50	648 (W/PK)	Tachometer Feed to Instrument Cluster	85	-	Not Used
17	-	Not Used	51	570 (BK/W)	Ground	86	-	Not Used
18	-	Not Used	52	-	Not Used	87	812 (DB/LG)	Injection Control Pressure Sensor
19	-	Not Used	53	*924 (BR/O)	Coast Clutch Solenoid	88	-	Not Used
20	-	Not Used	54	-	Not Used	89	355 (GY/W)	Accelerator Pedal Position Sensor
21	-	Not Used	55	37 (Y)	Keep Alive Power Input	90	351 (BR/W)	Reference Output Voltage
22	-	Not Used	56	-	Not Used	91	359 (GY/R)	Sensor Signal Return
23	-	Not Used	57	-	Not Used	92	511 (LG)	Brake ON/OFF Switch Input
24	570 (BK/W)	Ground	58	679 (GY/BK)	Vehicle Speed Sensor (VSS)	93	-	Not Used
25	57 (BK)	Ground	59	-	Not Used	94	-	Not Used
26	-	Not Used	60	-	Not Used	95	821 (BR/O)	Fuel Delivery Command Signal Output
27	237 (O/Y)*	Shift Solenoid #1	61	151 (LB/BK)	Speed Control Common Signal	96	817 (Y/LB)	Cylinder Identification Signal Output
28	480 (P/Y)*	Torque Converter Clutch Solenoid	62	-	Not Used	97	361 (R)	Power Input
29	224 (T/W)*	Transmission Control Switch	63	-	Not Used	98	-	Not Used
	306 (T/LB)**	Clutch Pedal Position Switch	64	*199 (LB/Y)	Transmission Range (TR) Sensor	99	-	Not Used
30	553 (P/LB)	Exhaust Back Pressure Sensor	65	796 (L/B)	Cam Position Sensor Return	100	-	Not Used
31	307 (BK/Y)	Brake Pressure Switch	66	-	Not Used	101	1086 (P/O)	Glow Plug Control Output
32	-	Not Used	67	-	Not Used	102	-	Not Used
33	676 (PK/O)	Vehicle Speed Sensor Ground	68	-	Not Used	103	570 (BK/W)	Ground
34	358 (LG/BK)	MAP Sensor	69	-	Not Used	104	-	Not Used

# 28-15 ENGINE CONTROLS (7.3L DI TURBO DIESEL)

1997 F-250 HD/350/SUPER DUTY

CALIFORNIA EXCEPT SUPER DUTY



C1027 (GRAY)

POWERTRAIN CONTROL MODULE (PCM) (7.3L DI TURBO)

# ENGINE CONTROLS (7.3L DI TURBO DIESEL) 28-16

1997 F-250 HD/350/SUPER DUTY

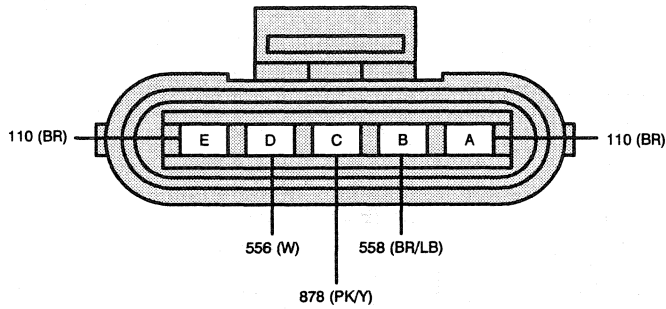
**CALIFORNIA EXCEPT SUPER DUTY**

**\* E4OD TRANS**

PIN	CIRCUIT	CIRCUIT FUNCTION	PIN	CIRCUIT	CIRCUIT FUNCTION	PIN	CIRCUIT	CIRCUIT FUNCTION
1	-	Not Used	35	-	Not Used	70	464 (BK/PK)	Wait to Start Output
2	658 (PK/LG)	Check Engine Light	36	-	Not Used	71	361 (R)	Power Input
3	-	Not Used	37	923 (O/BK)	*Transmission Fluid Temperature Sensor	72	-	Not Used
4	323 (LB/Y)	Power Take-off Feed	38	354 (LG/R)	Engine Oil Temperature Sensor	73	-	Not Used
5	977 (P/W)	Brake Warning Indicator	39	743 (GY)	Ambient Air Temperature Input	74	-	Not Used
6	237 (O/Y)	Shift Solenoid #1	40	848 (DG/O)	Speed Control Ground	75	-	Not Used
7	-	Not Used	41	198 (DG/O)	A/C Cycle Pressure Switch Input	76	570 (BK/W)	Ground
8	339 (GY)	Glow Plug Relay	42	318 (GY/R)	Exhaust Pressure Regulator	77	570 (BK/W)	Ground
9	1054 (GY/BK)	Glow Plug Relay	43	-	Not Used	78	-	Not Used
10	308 (R/O)	Idle Validation Shift	44	-	Not Used	79	-	Not Used
11	315 (P/O)	Shift Solenoid #2	45	-	Not Used	80	814 (W/PK)	IDM Enable Output
12	911 (W/LG)	*Transmission Control Indicator Lamp	46	-	Not Used	81	925 (W/Y)	Electronic Pressure Control
13	107 (P)	Generic Scan Tool Input	47	-	Not Used	82	-	Not Used
14	784 (LB/BK)*	4x4 Low Input	48	818 (GY/W)	IDM Signal Input	83	552 (Y/R)	Injection Pressure Regulator
15	915 (PK/LB)	Generic Scan Tool Input	49	-	Not Used	84	-	Not Used
16	914 (T/O)	Auxiliary Powertrain Control Input	50	-	Not Used	85	-	Not Used
17	-	Not Used	51	570 (BK/W)	Ground	86	-	Not Used
18	-	Not Used	52	-	Not Used	87	812 (DB/LG)	Injection Control Pressure Sensor
19	648 (W/PK)	Tachometer Feed to Instrument Cluster	53	-	Not Used	88	358 (LG/BK)	MAP Sensor
20	924 (BR/O)	Coast Clutch Solenoid	54	480 (P/Y)	*Torque Converter Clutch Solenoid	89	355 (GY/W)	Accelerator Pedal Position Sensor
21	795 (DG)	CAM Position Sensor	55	37 (Y)	Keep Alive Power Input	90	351 (BR/W)	Reference Output Voltage
22	-	Not Used	56	-	Not Used	91	359 (GY/R)	Sensor Signal Return
23	-	Not Used	57	-	Not Used	92	511 (LG)	Brake ON/OFF Switch Input
24	570 (BK/W)	Ground	58	679 (GY/BK)	Vehicle Speed Sensor (VSS)	93	-	Not Used
25	57 (BK)	Ground	59	-	Not Used	94	-	Not Used
26	-	Not Used	60	-	Not Used	95	821 (BR/O)	Fuel Delivery Command Signal Output
27	-	Not Used	61	151 (LB/BK)	Speed Control Common Signal	96	817 (Y/LB)	Cylinder Identification Signal Output
28	-	Not Used	62	-	Not Used	97	361 (R)	Power Input
29	224 (T/W)	*Transmission Control Switch	63	356 (DB/LG)	BARO Sensor	98	-	Not Used
30	553 (P/LB)	Exhaust Back Pressure Sensor	64	199 (LB/Y)	*Transmission Range (TR) Sensor	99	-	Not Used
31	307 (BK/Y)	Brake Pressure Switch	65	796 (L/B)	Cam Position Sensor Return	100	-	Not Used
32	-	Not Used	66	-	Not Used	101	1086 (P/O)	Glow Plug Control Output
33	676 (PK/O)	Vehicle Speed Sensor Ground	67	-	Not Used	102	-	Not Used
34	466 (PK/O)	Glow Plug Relay	68	-	Not Used	103	570 (BK/W)	Ground
			69	-	Not Used	104	-	Not Used

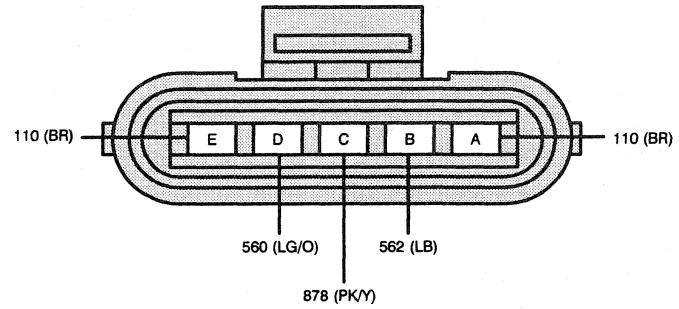
# 28-17 ENGINE CONTROLS (7.3L DI TURBO DIESEL)

1997 F-250 HD/350/SUPER DUTY



**C1057**  
**FUEL INJECTORS/GLOW PLUGS**  
**(#2, #4)**

PIN	CIRCUIT	CIRCUIT FUNCTION
A	110 (BR)	Glow Plug #4
B	558 (BR/LB)	Fuel Injector #4
C	878 (PK/Y)	Fuel Injection High Side Left
D	556 (W)	Fuel Injector #2
E	110 (BR)	Glow Plug #2

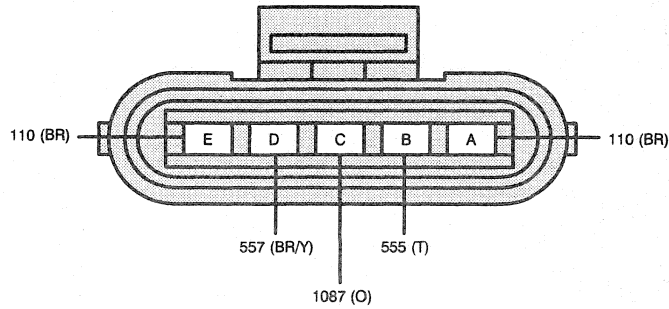


**C1058**  
**FUEL INJECTORS/GLOW PLUGS**  
**(#6, #8)**

PIN	CIRCUIT	CIRCUIT FUNCTION
A	110 (BR)	Glow Plug #8
B	562 (LB)	Fuel Injector #8
C	878 (PK/Y)	Fuel Injection High Side Left
D	560 (LG/O)	Fuel Injector #6
E	110 (BR)	Glow Plug #6

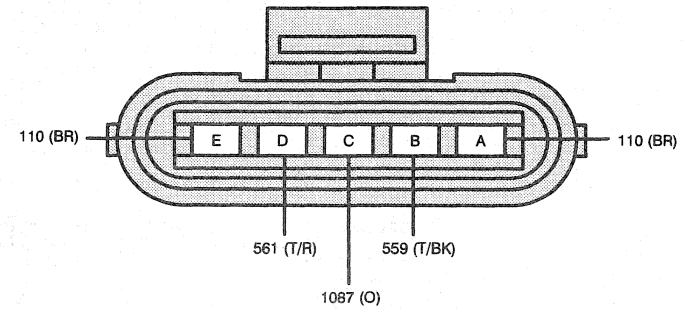
# ENGINE CONTROLS (7.3L DI TURBO DIESEL) 28-18

1997 F-250 HD/350/SUPER DUTY



**C1059**  
**FUEL INJECTORS/GLOW PLUGS**  
**(#1, #3)**

PIN	CIRCUIT	CIRCUIT FUNCTION
A	110 (BR)	Glow Plug #1
B	555 (T)	Fuel Injector #1
C	1087 (O)	Fuel Injection High Side Right
D	557 (BR/Y)	Fuel Injector #3
E	110 (BR)	Glow Plug #3



**C1060**  
**FUEL INJECTORS/GLOW PLUGS**  
**(#5, #7)**

PIN	CIRCUIT	CIRCUIT FUNCTION
A	110 (BR)	Glow Plug #5
B	559 (T/BK)	Fuel Injector #5
C	1087 (O)	Fuel Injection High Side Right
D	561 (T/R)	Fuel Injector #7
E	110 (BR)	Glow Plug #7

## CELL 28 CONNECTOR REFERENCE LIST

CONNECTOR	SECTION-PAGE
C202	150-6
C250	60-9
C251	60-9
C264	65-2
C269	13-24

# 30-1 TRANSMISSION CONTROLS (E40D)

1997 F-250 HD/350/SUPER DUTY

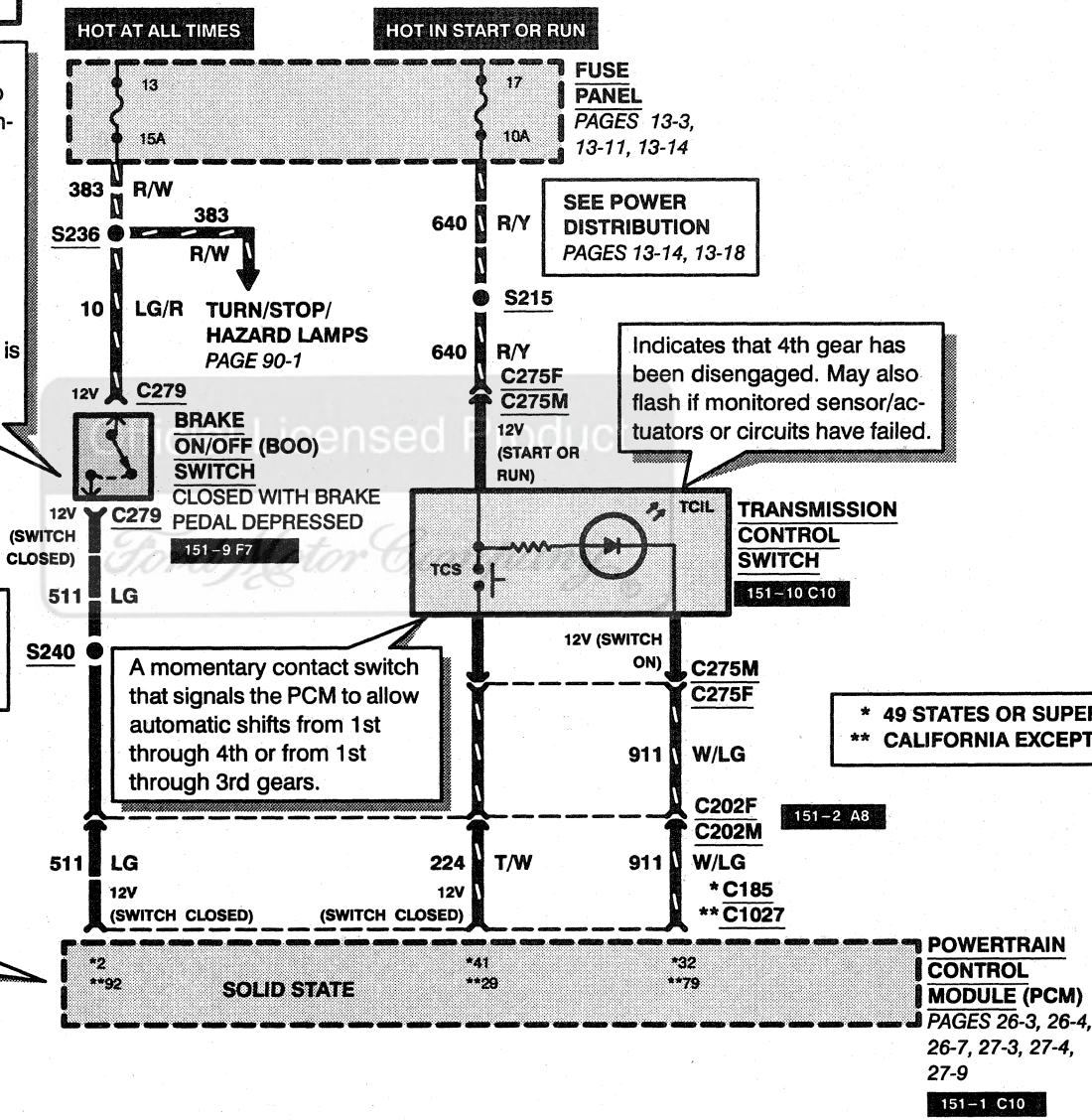
For diagnostic information, refer to Powertrain Control/Emissions Diagnosis Manual or Section 07-01 of the Service Manual.

The BOO switch sends a signal to the PCM to disengage the torque converter clutch when the brake pedal is depressed. This signal may be ignored by the PCM if TP signal is above closed throttle.

SEE TURN/STOP/HAZARD LAMPS PAGE 90-2

Uses information from various sensors/actuators to determine powertrain (engine/transmission) operations.

## GASOLINE



SEE POWER DISTRIBUTION PAGES 13-14, 13-18

Indicates that 4th gear has been disengaged. May also flash if monitored sensor/actuators or circuits have failed.

\* 49 STATES OR SUPER DUTY  
\*\* CALIFORNIA EXCEPT SUPER DUTY

POWERTRAIN CONTROL MODULE (PCM) PAGES 26-3, 26-4, 26-7, 27-3, 27-4, 27-9

151-1 C10

# TRANSMISSION CONTROLS (E4OD) 30-2

1997 F-250 HD/350/SUPER DUTY

## GASOLINE

ENGINE COMPARTMENT FUSE BOX PAGE 13-5

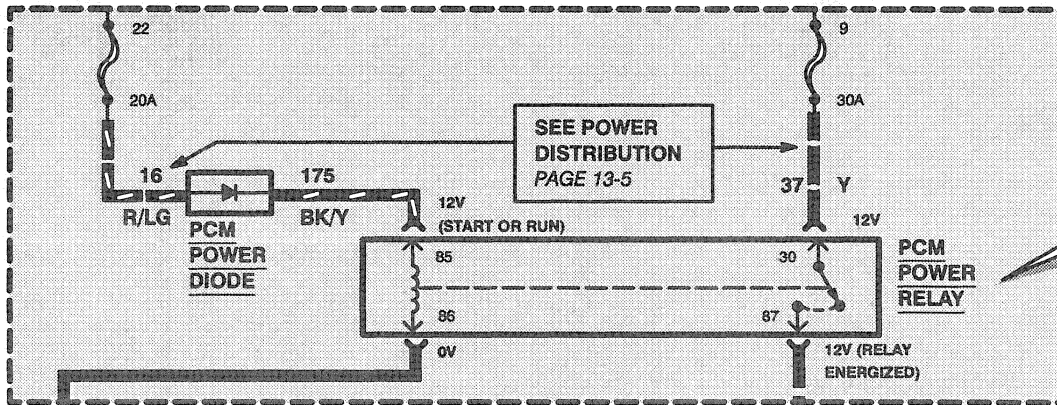
Directs voltage to the Shift Solenoids, Electronic Pressure Control (EPC) Solenoid, Coast Clutch Solenoid and Torque Converter Clutch (TCC) Solenoid.

\* 49 STATES OR SUPER DUTY  
\*\* CALIFORNIA EXCEPT SUPER DUTY

The PCM monitors the voltage drop across a temperature sensitive thermistor. The PCM uses this information to determine transmission fluid temperature for adjustment of shift schedules and torque converter engagement schedules when the fluid is cold. Also used to adjust EPC pressure shift and torque converter schedules for temperature.

HOT IN START OR RUN

HOT AT ALL TIMES



SEE POWER DISTRIBUTION PAGE 13-5

PCM POWER RELAY

SEE POWER DISTRIBUTION PAGES 13-5, 13-6

FROM S146 ON PAGE 30-3

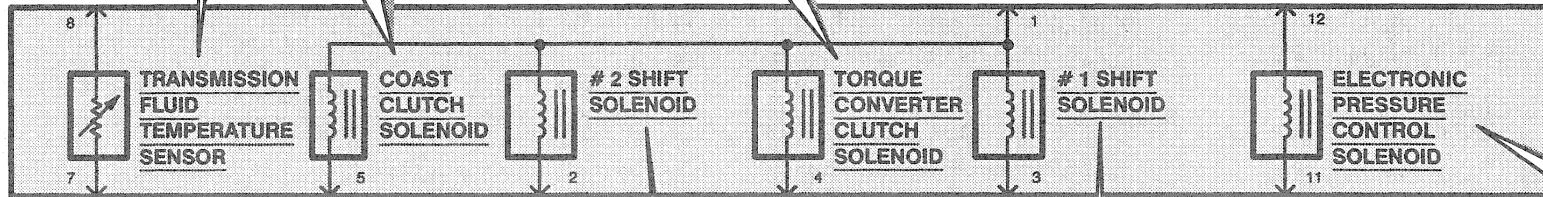


SEE GROUNDS PAGE 10-1

This solenoid controls the apply and release of the coast clutch.

This solenoid controls the apply and release pressure to the torque converter clutch control valve.

C1048



C103F C103M

923 O/BK

924 BR/O

315 P/O

480 P/Y

237 O/Y

925 W/Y

42\* 37\*\*

55\* 53\*\*

19\* 1\*\*

53\* 54\*\*

52\* 27\*\*

38\* 81\*\*

SOLID STATE

E4OD TRANSMISSION 151-12 A3

The Electronic Pressure Control (EPC) Solenoid is a variable force type solenoid that regulates line pressure.

The Shift Solenoids provide gear selection of first through fourth by controlling the pressure to the shift valves.

POWERTRAIN CONTROL MODULE (PCM) PAGES 26-3, 26-4, 27-3, 27-4

151-1 AB

# 30-3 TRANSMISSION CONTROLS (E40D)

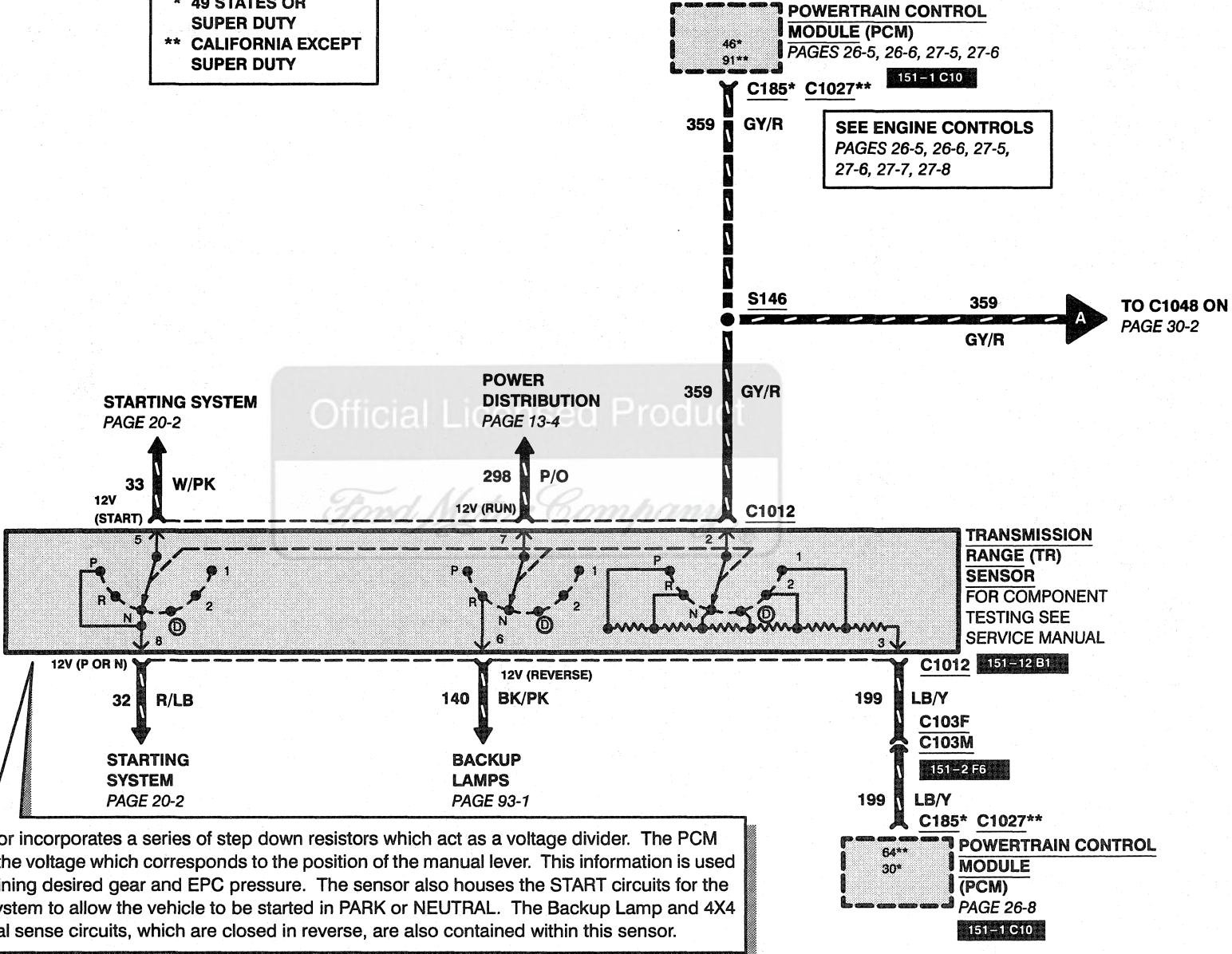
1997 F-250 HD/350/SUPER DUTY

**GASOLINE**

\* 49 STATES OR SUPER DUTY  
 \*\* CALIFORNIA EXCEPT SUPER DUTY

**POWERTRAIN CONTROL MODULE (PCM)**  
 PAGES 26-5, 26-6, 27-5, 27-6  
 46\* 91\*\*

**SEE ENGINE CONTROLS**  
 PAGES 26-5, 26-6, 27-5, 27-6, 27-7, 27-8



This sensor incorporates a series of step down resistors which act as a voltage divider. The PCM monitors the voltage which corresponds to the position of the manual lever. This information is used in determining desired gear and EPC pressure. The sensor also houses the START circuits for the ignition system to allow the vehicle to be started in PARK or NEUTRAL. The Backup Lamp and 4X4 low-neutral sense circuits, which are closed in reverse, are also contained within this sensor.

**TRANSMISSION RANGE (TR) SENSOR**  
 FOR COMPONENT TESTING SEE SERVICE MANUAL

**POWERTRAIN CONTROL MODULE (PCM)**  
 PAGE 26-8  
 64\*\* 30\* 151-1 C10

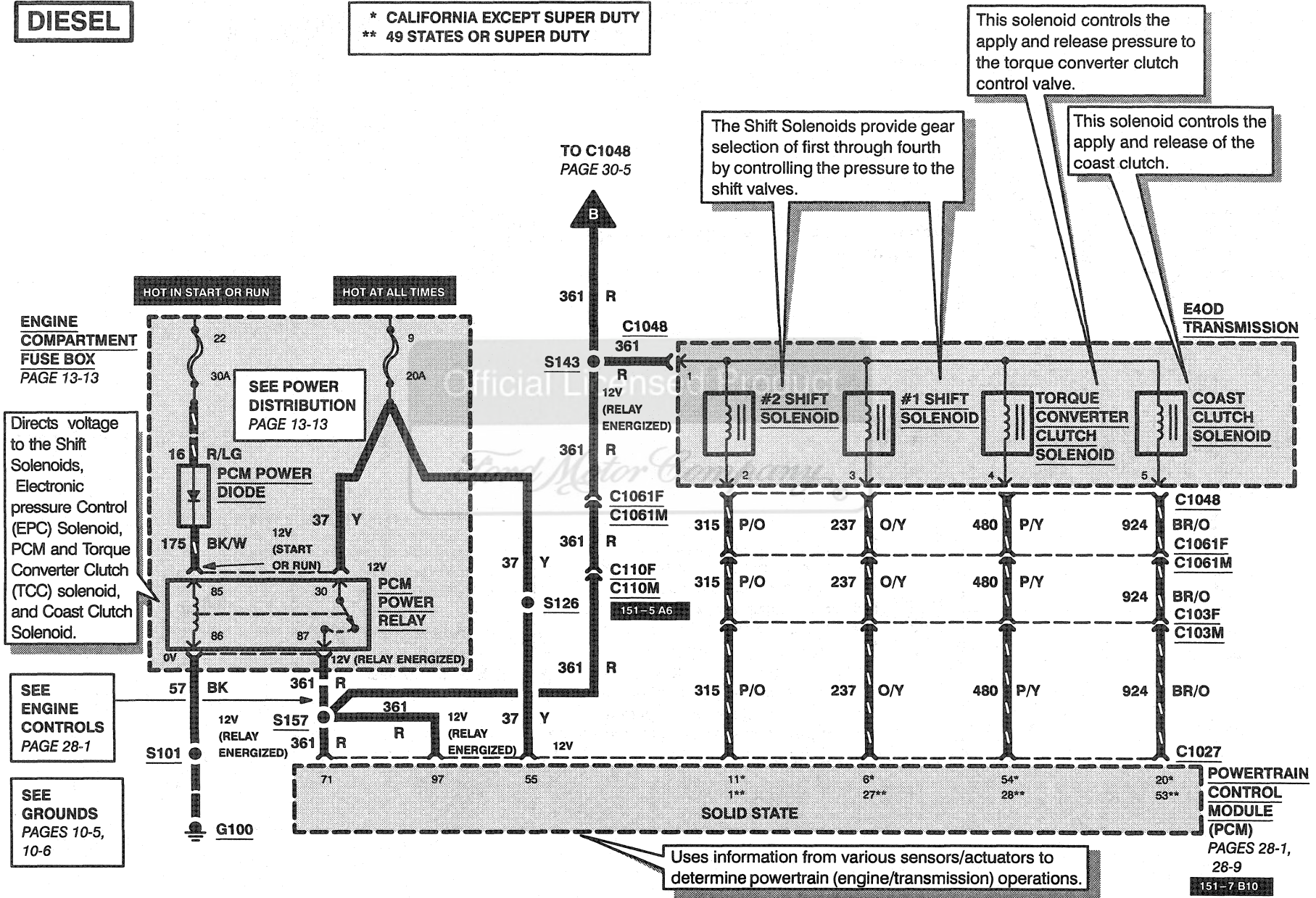


# TRANSMISSION CONTROLS (E40D) 30-4

1997 F-250 HD/350/SUPER DUTY

**DIESEL**

\* CALIFORNIA EXCEPT SUPER DUTY  
 \*\* 49 STATES OR SUPER DUTY



Directs voltage to the Shift Solenoids, Electronic pressure Control (EPC) Solenoid, PCM and Torque Converter Clutch (TCC) solenoid, and Coast Clutch Solenoid.

The Shift Solenoids provide gear selection of first through fourth by controlling the pressure to the shift valves.

This solenoid controls the apply and release pressure to the torque converter clutch control valve.

This solenoid controls the apply and release of the coast clutch.

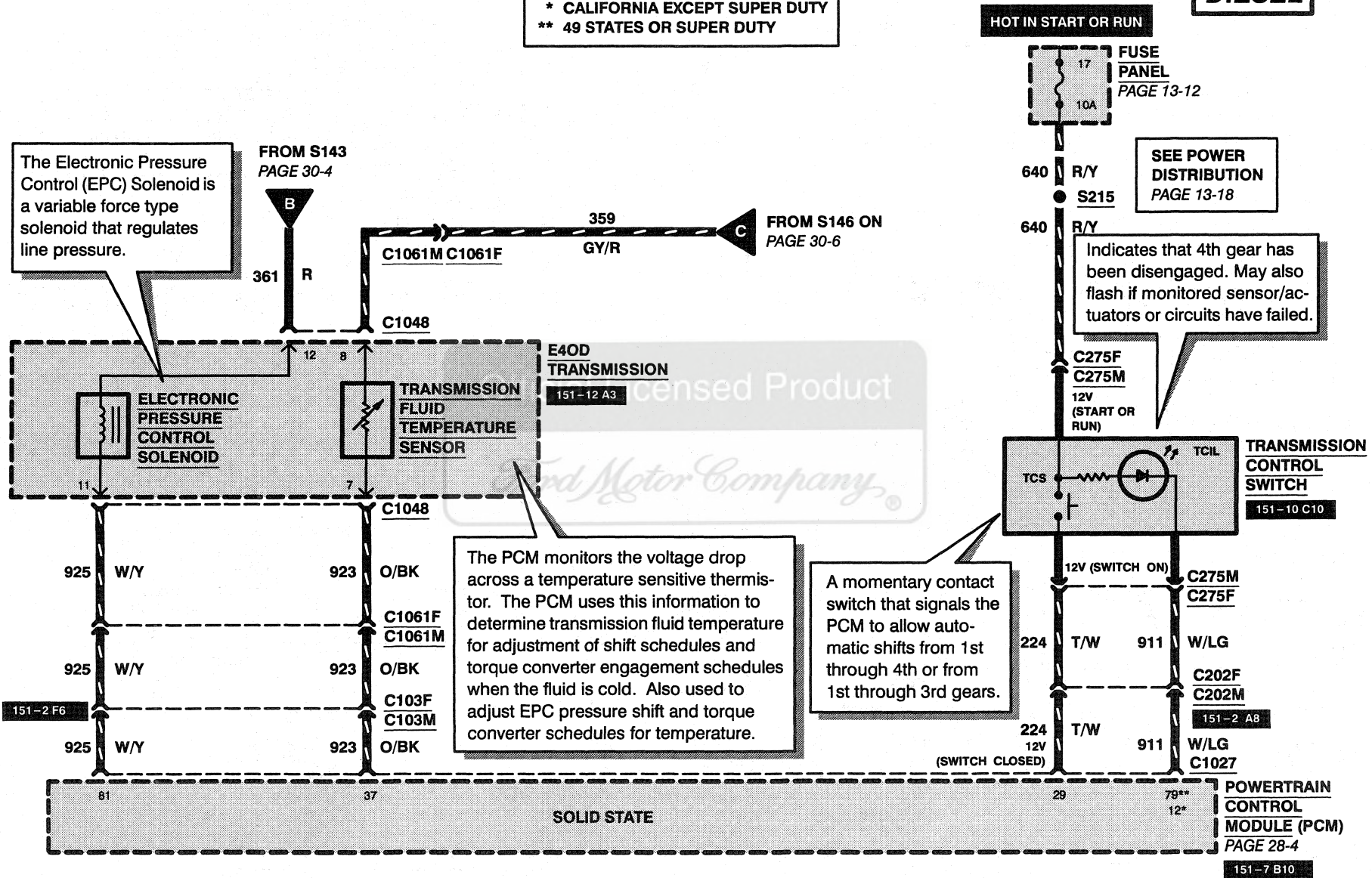
Uses information from various sensors/actuators to determine powertrain (engine/transmission) operations.

# 30-5 TRANSMISSION CONTROLS (E4OD)

1997 F-250 HD/350/SUPER DUTY

\* CALIFORNIA EXCEPT SUPER DUTY  
 \*\* 49 STATES OR SUPER DUTY

**DIESEL**

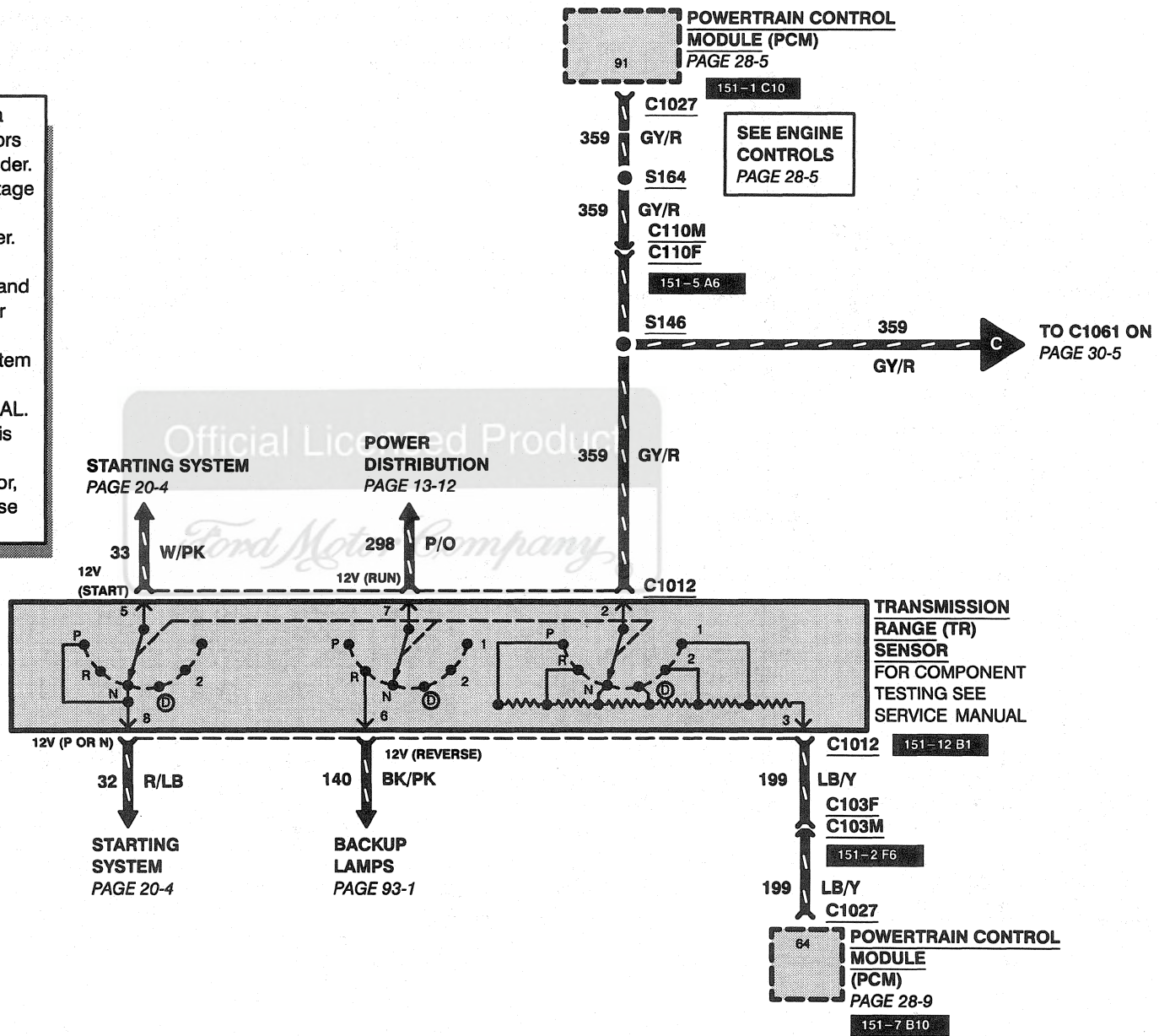


# TRANSMISSION CONTROLS (E40D) 30-6

1997 F-250 HD/350/SUPER DUTY

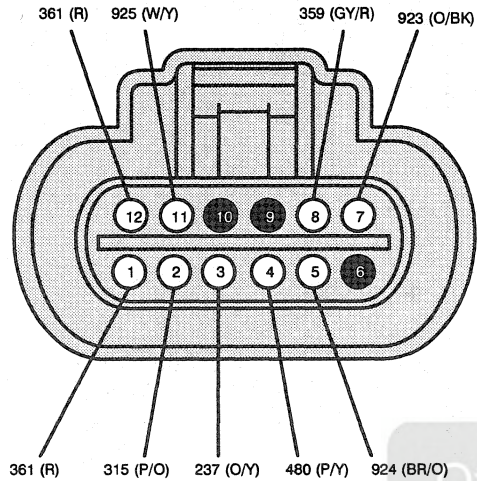
**DIESEL**

This sensor incorporates a series of step down resistors which act as a voltage divider. The PCM monitors the voltage which corresponds to the position of the manual lever. This information is used in determining desired gear and EPC pressure. The sensor also houses the START circuits for the ignition system to allow the vehicle to be started in PARK or NEUTRAL. The Backup Lamp, which is closed in reverse, is also contained within this sensor, as well as 4X4 neutral sense circuits.



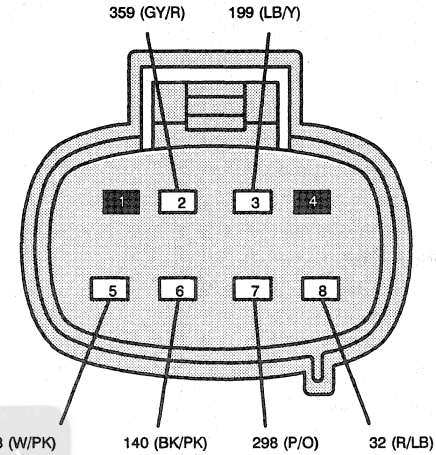
# 30-7 TRANSMISSION CONTROLS (E4OD)

1997 F-250 HD/350/SUPER DUTY



**C1048 (GRAY)  
E4OD TRANSMISSION**

PIN	CIRCUIT	CIRCUIT FUNCTION
1	361 (R)	Power from PCM Relay
2	315 (P/O)	Shift Solenoid #2
3	237 (O/Y)	Shift Solenoid #1
4	480 (P/Y)	Torque Converter Clutch Solenoid
5	924 (BR/O)	Coast Clutch Solenoid
6	-	NOT USED
7	923 (O/BK)	Transmission Fluid Temperature
8	359 (GY/R)	Sensor Signal Return
9	-	NOT USED
10	-	NOT USED
11	925 (W/Y)	Electronic Pressure Control Power
12	361 (R)	Electronic Pressure Control



**C1012 (BLACK)  
TRANSMISSION RANGE (TR) SENSOR**

FOR TR SENSOR DIAGNOSTICS  
REFER TO SECTION 07-01 IN THE  
SERVICE MANUAL

5.8L CALIFORNIA  
EXCEPT SUPER DUTY

PIN	CIRCUIT	CIRCUIT FUNCTION
1	-	NOT USED
2	359 (GY/R)	Signal Return
3	199 (LB/Y)	Transmission Range (TR) Position Output
4	-	NOT USED
5	33 (W/PK)	Start Circuit
6	140 (BK/PK)	Backup Lamps Feed
7	298 (P/O)	Hot in Run
8	32 (R/LB)	Start Circuit

# TRANSMISSION CONTROLS (E4OD) 30-8

1997 F-250 HD/350/SUPER DUTY

## CELL 30 CONNECTOR REFERENCE LIST

CONNECTOR	SECTION-PAGE
C103	150-2
C110	150-3
C185	26-9
C202	150-6
C1027	27-11
C1027	28-13
C1027	28-15
C1061	150-16

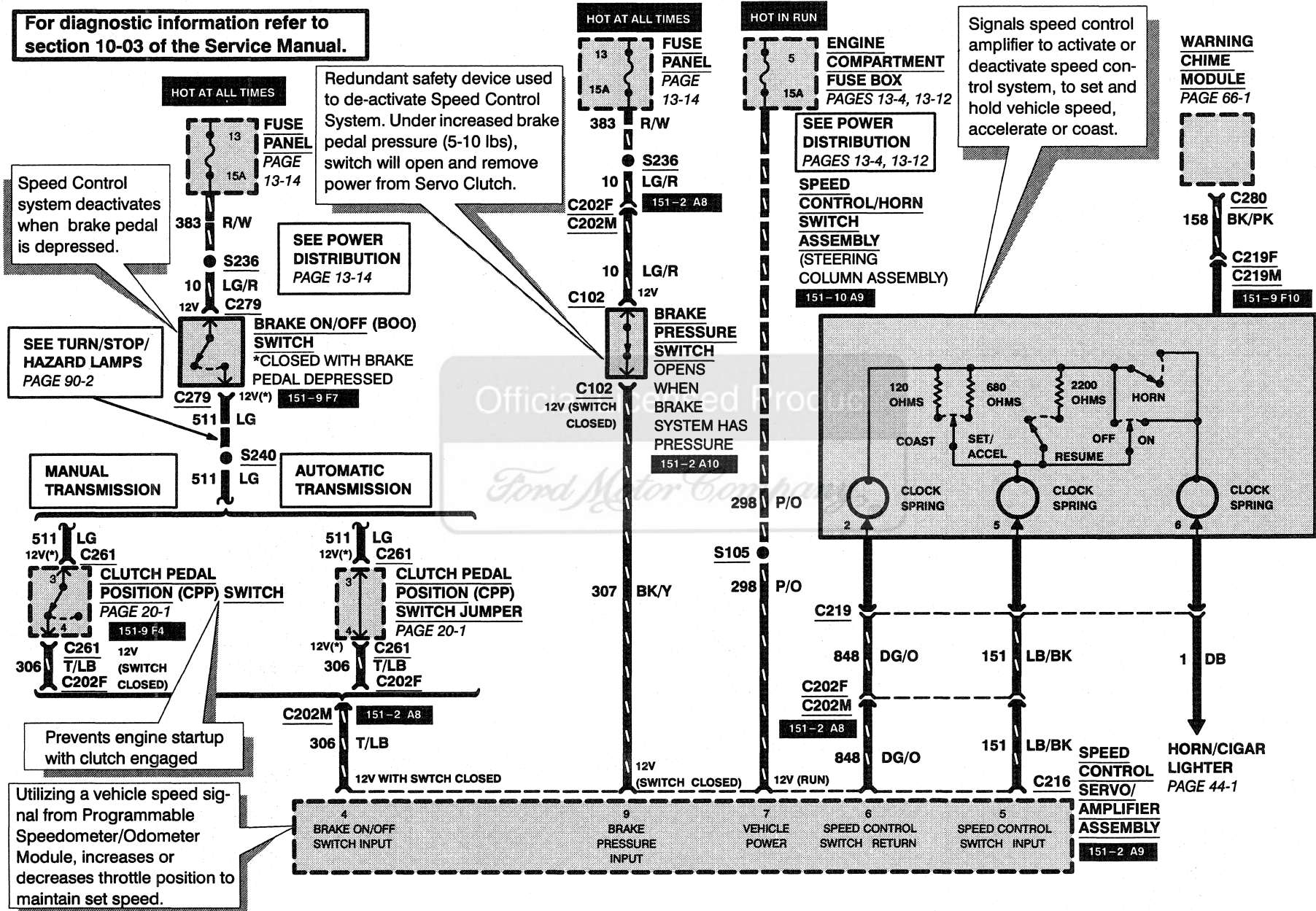
Official Licensed Product

*Ford Motor Company*®

# 31-1 SPEED CONTROL

1997 F-250 HD/350/SUPER DUTY

For diagnostic information refer to section 10-03 of the Service Manual.



# SPEED CONTROL 31-2

1997 F-250 HD/350/SUPER DUTY

\* 49 STATES OR SUPER DUTY

**DIESEL ONLY**

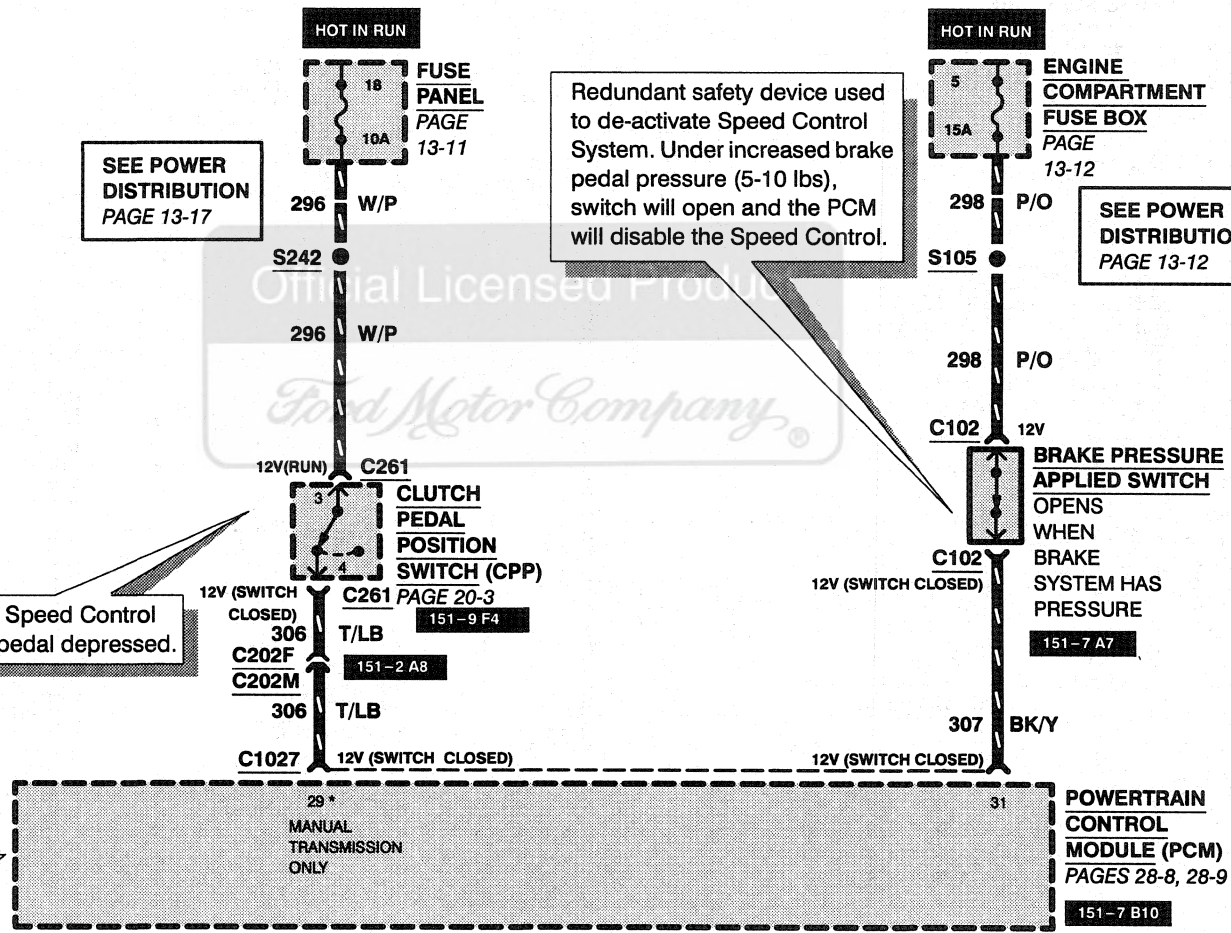
SEE POWER DISTRIBUTION PAGE 13-17

Redundant safety device used to de-activate Speed Control System. Under increased brake pedal pressure (5-10 lbs), switch will open and the PCM will disable the Speed Control.

SEE POWER DISTRIBUTION PAGE 13-12

Deactivates Speed Control with clutch pedal depressed.

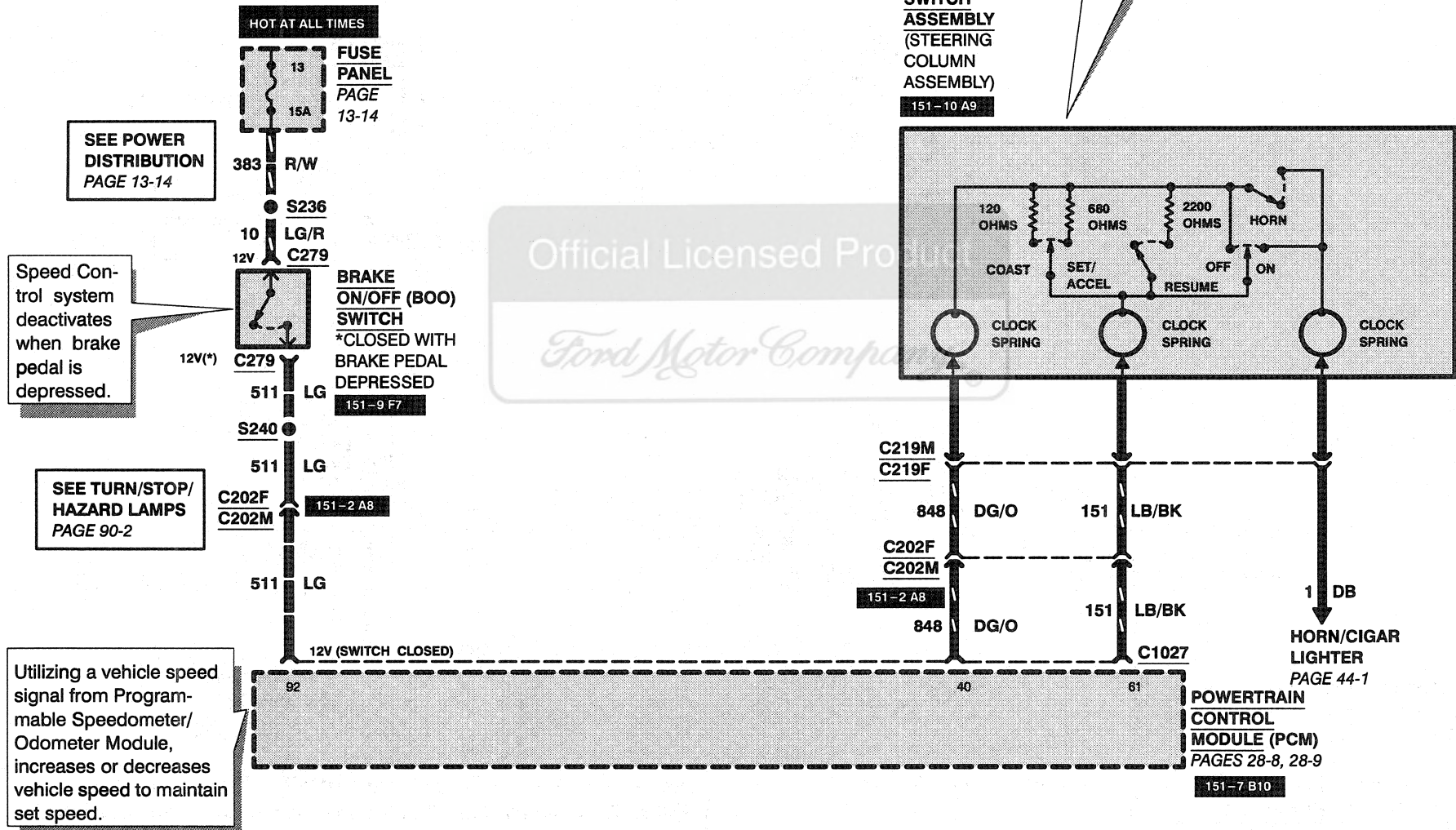
Utilizing a vehicle speed signal from Programmable Speedometer/Odometer Module, the PCM increases or decreases vehicle speed to maintain set speed.



# 31-3 SPEED CONTROL

1997 F-250 HD/350/SUPER DUTY

**DIESEL ONLY**





# SPEED CONTROL 31-4

1997 F-250 HD/350/SUPER DUTY

Generates an AC signal that is proportional to vehicle speed. Sends signal to PSOM and on to amplifier so that amplifier servo can increase or decrease the throttle opening to keep vehicle at set speed

\*\*\*\* W/152" WHEEL BASE OR GREATER

151-2 A7

REAR AXLE SENSOR  
151-12 E10

RABS DATA LINK CONNECTOR  
PAGE 42-2  
151-3 A9

REAR ANTI-LOCK BRAKE (RABS) MODULE  
PAGE 42-2

PROGRAMMABLE SPEEDOMETER/ ODOMETER MODULE (PSOM)  
PAGE 60-7

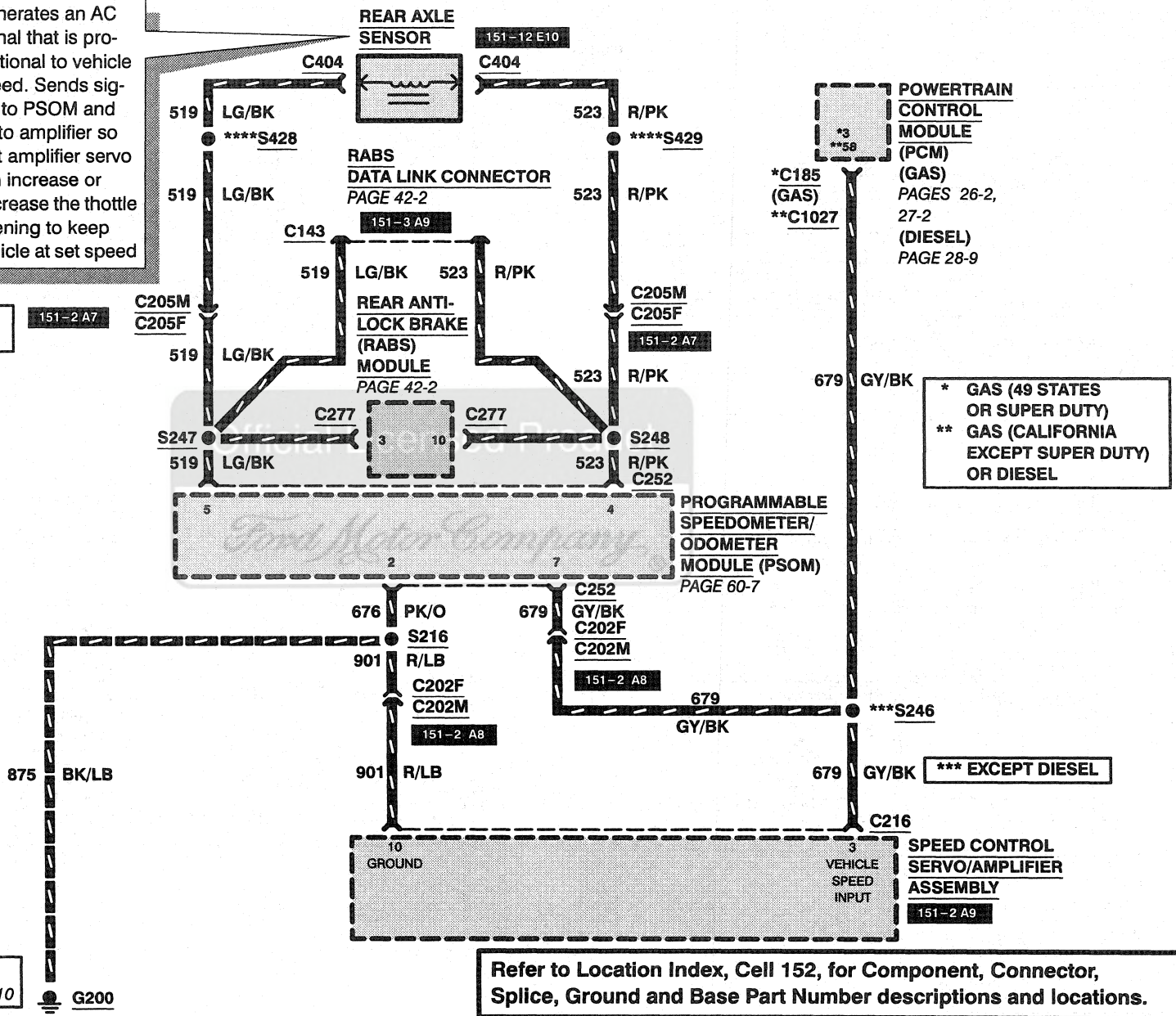
POWERTRAIN CONTROL MODULE (PCM)  
(GAS)  
PAGES 26-2, 27-2  
(DIESEL)  
PAGE 28-9

\* GAS (49 STATES OR SUPER DUTY)  
\*\* GAS (CALIFORNIA EXCEPT SUPER DUTY) OR DIESEL

\*\*\* EXCEPT DIESEL

SEE GROUNDS  
PAGES 10-9, 10-10

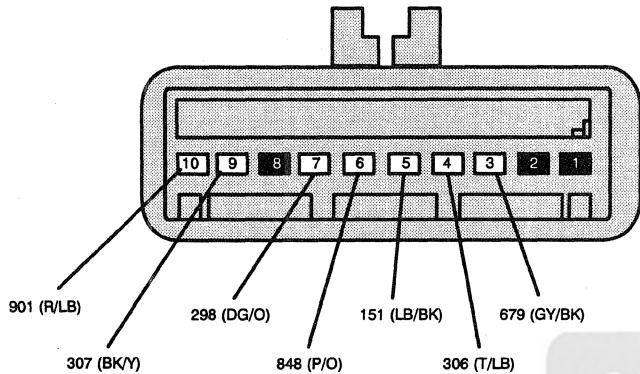
Refer to Location Index, Cell 152, for Component, Connector, Splice, Ground and Base Part Number descriptions and locations.



# 31-5 SPEED CONTROL

1997 F-250 HD/350/SUPER DUTY

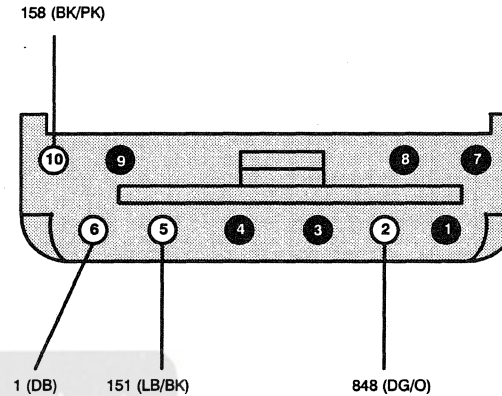
**GASOLINE ONLY**



**C216 (BLACK)**

**SPEED CONTROL SERVO/AMPLIFIER ASSEMBLY**

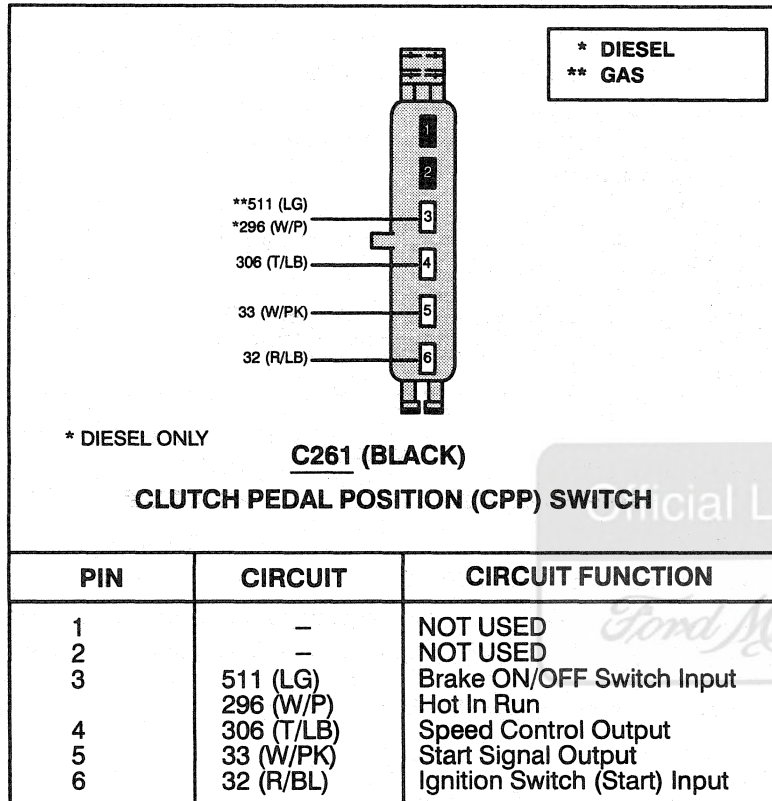
PIN	CIRCUIT	CIRCUIT FUNCTION
1	—	NOT USED
2	—	NOT USED
3	679 (GY/BK)	Vehicle Speed Input
4	306 (T/LB)	Brake Input
5	151 (LB/BK)	Common Signal
6	848 (DG/O)	Common Return
7	298 (P/O)	Vehicle Power
8	—	NOT USED
9	307 (BK/Y)	Brake Pressure Input
10	901 (R/LB)	Ground



**C219 (GRAY)**

**SPEED CONTROL/HORN SWITCH ASSEMBLY**

PIN	CIRCUIT	CIRCUIT FUNCTION
1	—	NOT USED
2	848 (DG/O)	Common Signal
3	—	NOT USED
4	—	NOT USED
5	151 (LB/BK)	Common Return
6	1 (DB)	Vehicle Power
7	—	NOT USED
8	—	NOT USED
9	—	NOT USED
10	158 (BK/PK)	Key Warning Switch



## CELL 31 CONNECTOR REFERENCE LIST

CONNECTOR	SECTION-PAGE
C185	26-9
C202	150-6
C205	150-9
C252	60-8
C277	42-3
C1027	27-11
C1027	28-13
C1027	28-15

# 31-7 SPEED CONTROL

1997 F-250 HD/350/SUPER DUTY

## TROUBLESHOOTING HINTS (FOR ADDITIONAL INFORMATION REFER TO SERVICE MANUAL.)

CONDITION	POSSIBLE CAUSE	ACTION								
<ul style="list-style-type: none"> <li>System doesn't operate</li> </ul>	<ul style="list-style-type: none"> <li>Open circuit to Speed Control Switch</li> </ul>	<ul style="list-style-type: none"> <li>Disconnect Speed Control Amplifier connector and measure the resistance between the 151 (LB/BK) wire and 848 (DG/O) wire while pressing the switches indicated. Rotate steering wheel through its full range and check that resistance remains within the range given.                             <table border="0" style="margin-left: 20px;"> <tr> <td>Depress OFF:</td> <td>less than 1 ohm</td> </tr> <tr> <td>Depress SET/ACCEL:</td> <td>646 to 714 ohms</td> </tr> <tr> <td>Depress COAST:</td> <td>114 to 126 ohms</td> </tr> <tr> <td>Depress RESUME:</td> <td>2090 to 2310 ohms</td> </tr> </table> </li> <li>If resistance fluctuates while steering wheel is rotated, remove steering wheel and check switches and clockspring assembly.</li> </ul>	Depress OFF:	less than 1 ohm	Depress SET/ACCEL:	646 to 714 ohms	Depress COAST:	114 to 126 ohms	Depress RESUME:	2090 to 2310 ohms
Depress OFF:	less than 1 ohm									
Depress SET/ACCEL:	646 to 714 ohms									
Depress COAST:	114 to 126 ohms									
Depress RESUME:	2090 to 2310 ohms									
<ul style="list-style-type: none"> <li>System doesn't operate</li> </ul>	<ul style="list-style-type: none"> <li>Blown Fuse</li> <li>Inoperative ground</li> <li>Inoperative Brake Pressure Switch</li> <li>Stop Lamps</li> </ul>	<ul style="list-style-type: none"> <li>Check Fuse E</li> <li>Check continuity on circuit 901 (R/LB) to ground</li> <li>Check Brake Pressure Switch</li> <li>Check continuity on circuit 306 (T/LB) to ground blown</li> </ul>								
<ul style="list-style-type: none"> <li>System operates, but is erratic or unstable</li> </ul>	<ul style="list-style-type: none"> <li>Throttle linkage is binding or loose</li> </ul>	<ul style="list-style-type: none"> <li>Check that Speed Control Servo and throttle linkage are not binding</li> <li>Check that Actuator cable has as much tension as possible without holding throttle open</li> <li>Check Speed Signal from PSOM</li> </ul>								

# NOTES 31-8

1997 F-250 HD/350/SUPER DUTY

Official Licensed Product

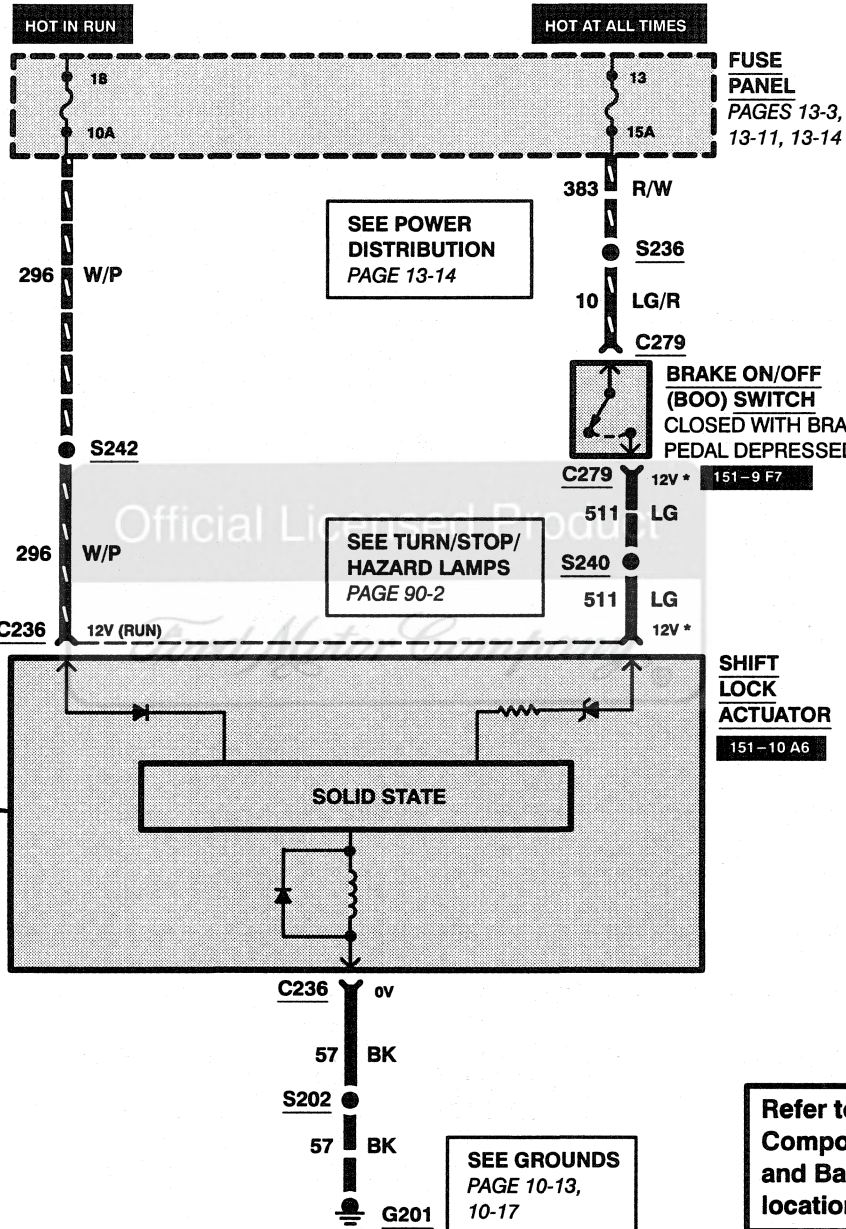
*Ford Motor Company*

# 37-1 SHIFT LOCK

1997 F-250 HD/350/SUPER DUTY

For diagnostic information refer to section 07-05 of the Service Manual.

SEE POWER DISTRIBUTION PAGE 13-17



With Ignition Switch in RUN, driver is unable to shift the automatic transmission out of PARK, unless the brake pedal is depressed.

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

# NOTES 37-2

1997 F-250 HD/350/SUPER DUTY

Official Licensed Product

*Ford Motor Company*

# 42-1 REAR ANTI-LOCK BRAKES (RABS)

1997 F-250 HD/350/SUPER DUTY

For diagnostic information, refer to section 06-09 of the Service Manual.

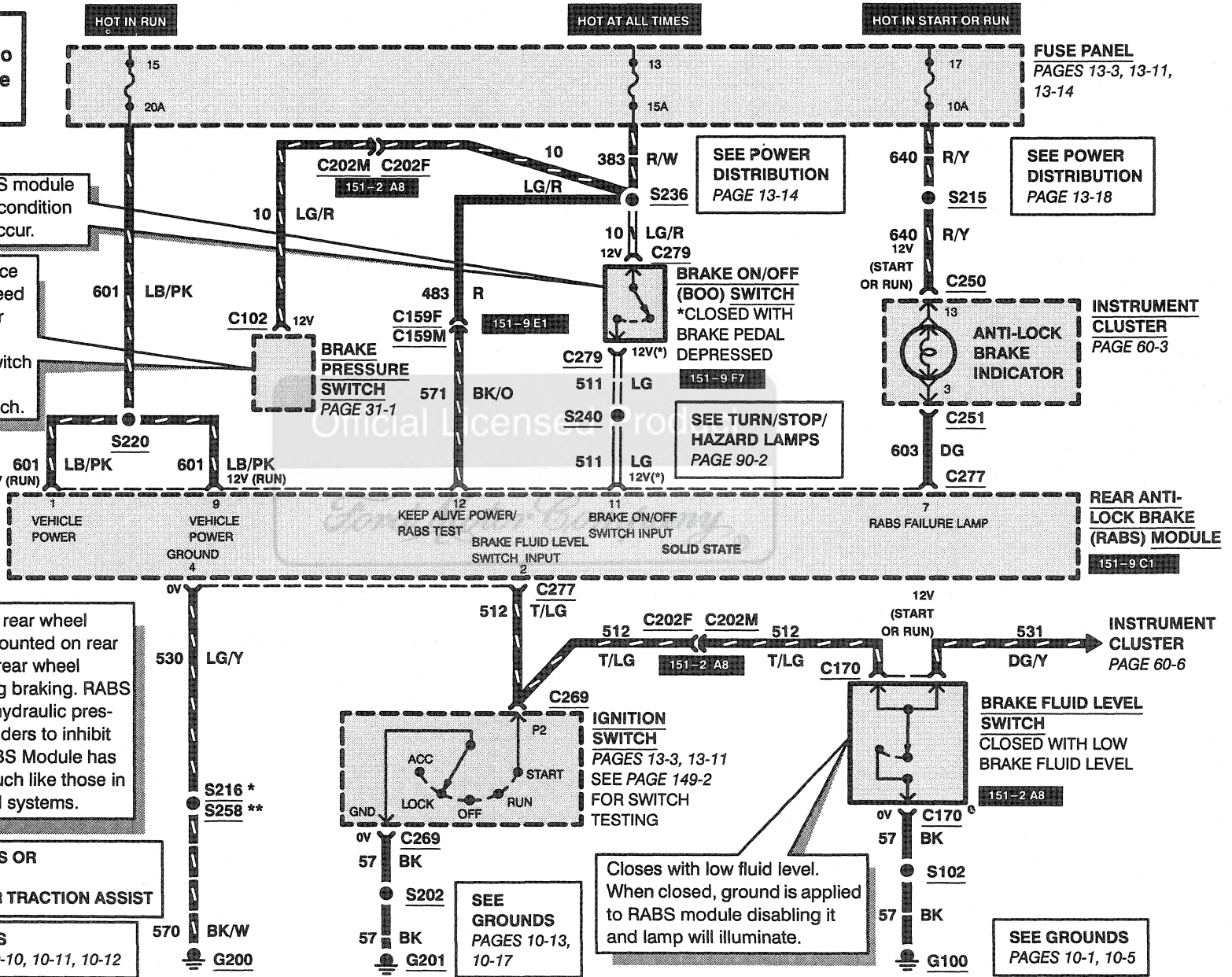
Signals RABS module that braking condition is about to occur.

Redundant safety device used to deactivate Speed Control System. Under increased brake pedal pressure (5-10 lbs), switch will open and remove power from Servo Clutch.

Continuously monitors rear wheel speed with a sensor mounted on rear axle for an impending rear wheel lockup condition during braking. RABS Module will modulate hydraulic pressure to rear brake cylinders to inhibit rear wheel lockup. RABS Module has self-test capabilities much like those in other electronic control systems.

\* WITHOUT AIR BAGS OR TRACTION ASSIST  
\*\* WITH AIR BAGS OR TRACTION ASSIST

SEE GROUNDS  
PAGES 10-9, 10-10, 10-11, 10-12



SEE GROUNDS  
PAGES 10-13, 10-17

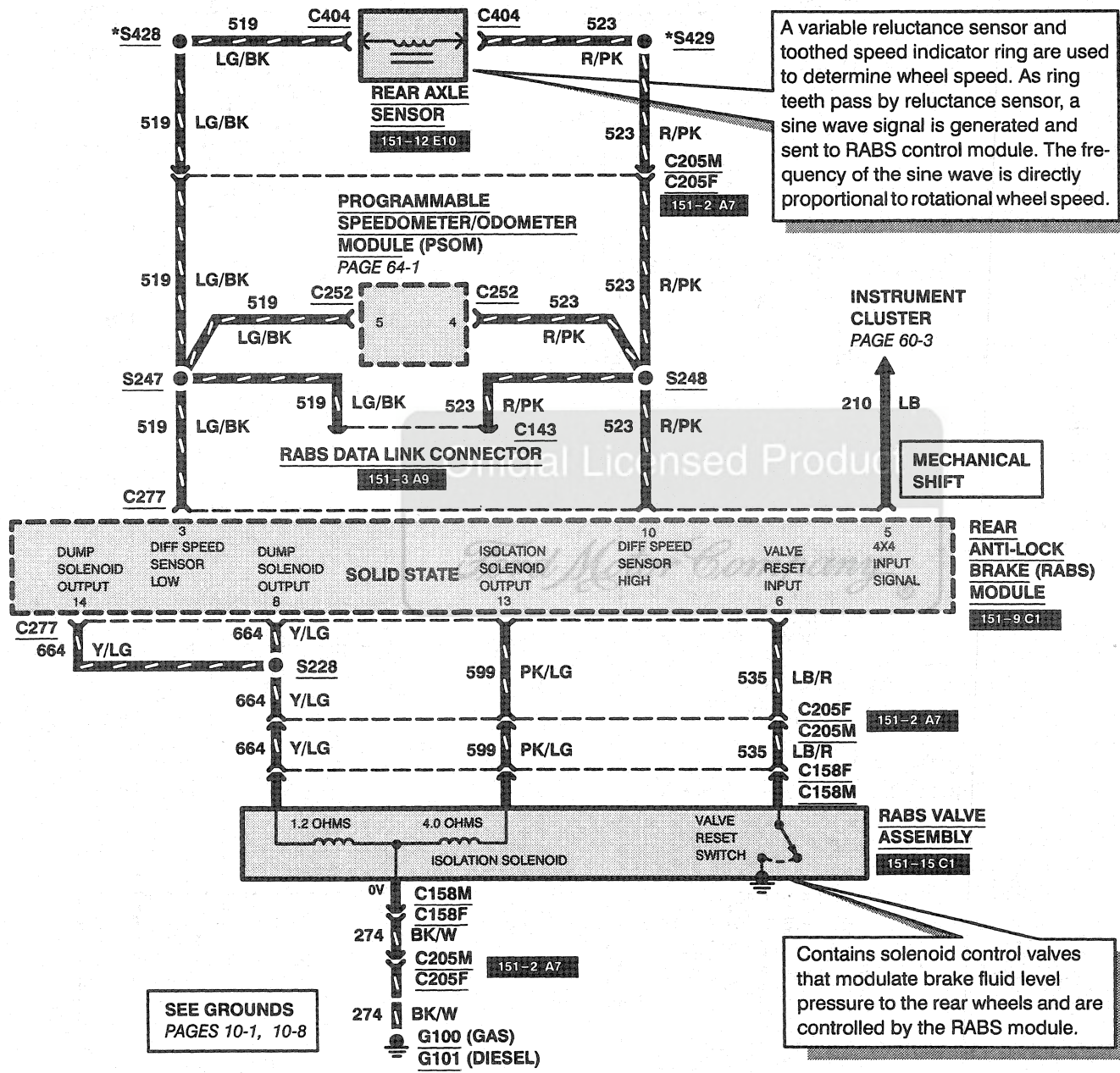
Closes with low fluid level. When closed, ground is applied to RABS module disabling it and lamp will illuminate.

SEE GROUNDS  
PAGES 10-1, 10-5



# REAR ANTI-LOCK BRAKES (RABS) 42-2

1997 F-250 HD/350/SUPER DUTY



A variable reluctance sensor and toothed speed indicator ring are used to determine wheel speed. As ring teeth pass by reluctance sensor, a sine wave signal is generated and sent to RABS control module. The frequency of the sine wave is directly proportional to rotational wheel speed.

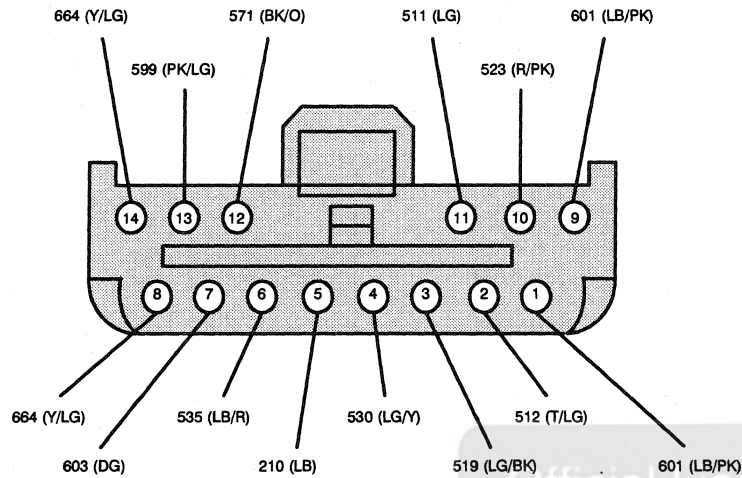
SEE GROUNDS  
PAGES 10-1, 10-8

Contains solenoid control valves that modulate brake fluid level pressure to the rear wheels and are controlled by the RABS module.

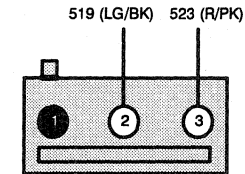
Refer to Location Index, Cell 152, for Component, Connector, Splice, Ground and Base Part Number descriptions and locations.

# 42-3 REAR ANTI-LOCK BRAKES (RABS)

1997 F-250 HD/350/SUPER DUTY



**C277 (BLACK)  
REAR ANTI-LOCK BRAKE (RABS) MODULE**



**C143 (BLACK)  
RABS DATA LINK CONNECTOR**

PIN	CIRCUIT	CIRCUIT FUNCTION
1	-	NOT USED
2	519 (LG/BK)	Differential Speed Sensor-High
3	523 (R/PK)	Differential Speed Sensor-Low

PIN	CIRCUIT	CIRCUIT FUNCTION
1	601 (LB/PK)	Power Input
2	512 (T/LG)	Brake Fluid Level Signal
3	519 (LG/BK)	Differential Speed Sensor-Low
4	530 (LG/Y)	Ground
5	210 (LB)	4X4 Input Signal
6	535 (LB/R)	Valve Reset Input
7	603 (DG)	Warning Lamp Output
8	664 (Y/LG)	Dump Solenoid Output
9	601 (LB/PK)	Power Input
10	523 (R/PK)	Differential Speed Sensor-High
11	511 (LG)	Brake ON/OFF Switch Input Power Input
12	571 (BK/O)	Diagnostic Test Input/Keep Alive Input
13	599 (PK/LG)	Isolation Solenoid Output
14	664 (Y/LG)	Dump Solenoid Output

## CELL 42 CONNECTOR REFERENCE LIST

CONNECTOR	CELL-PAGE
C202	150-6
C205	150-9
C209	150-10
C223	34-5
C250	60-9
C251	60-9
C252	60-8
C269	13-24

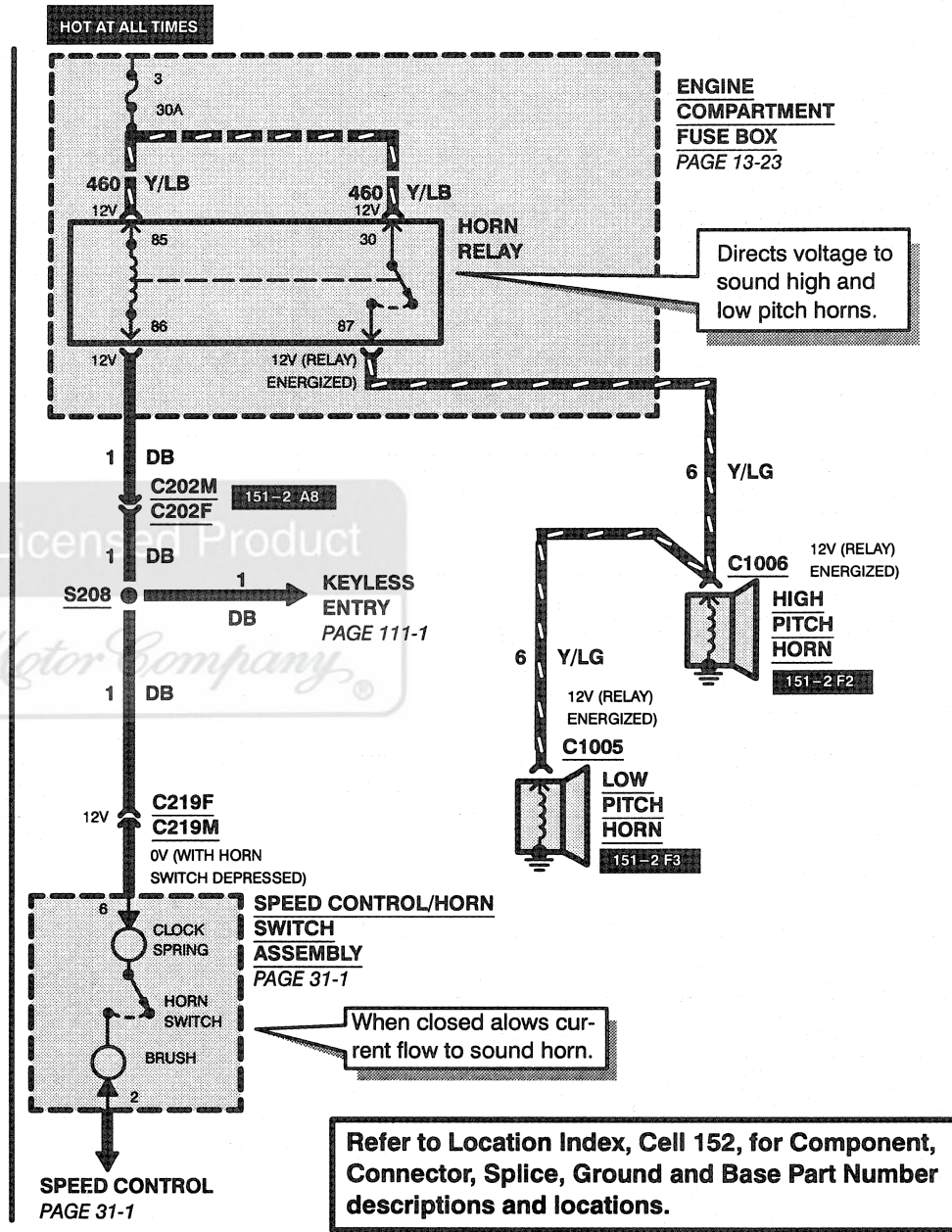
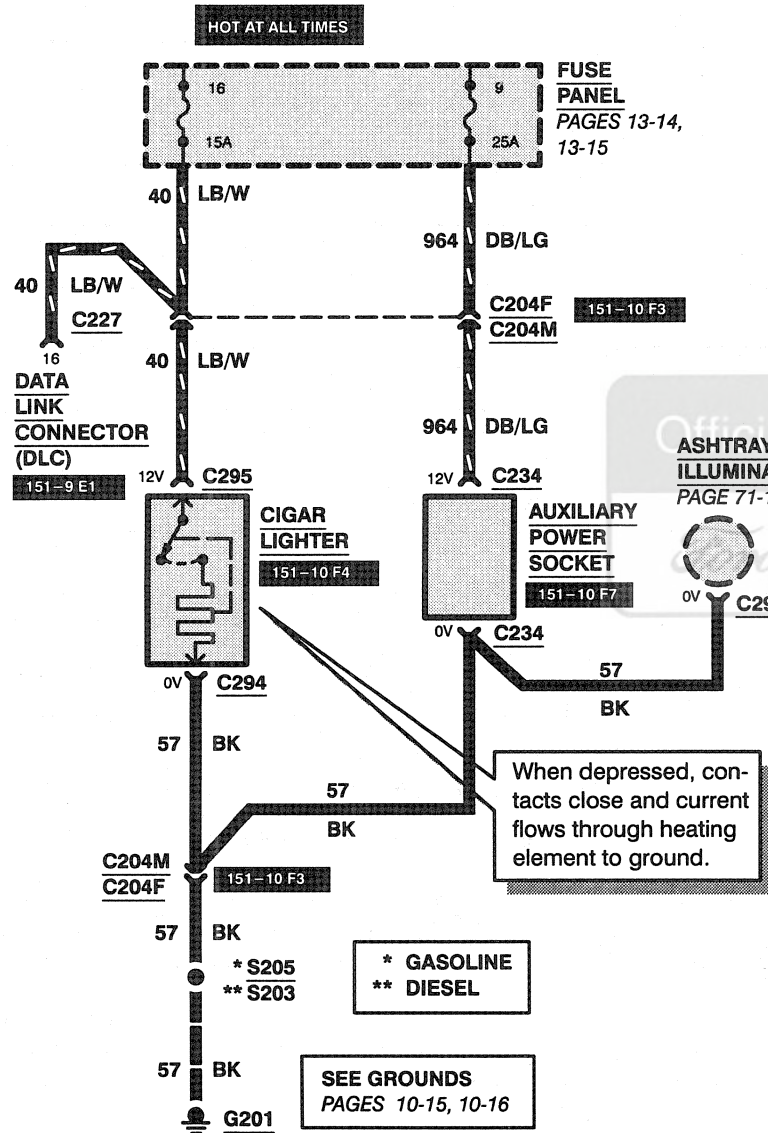
Official Licensed Product

*Ford Motor Company*

# 44-1 HORN/CIGAR LIGHTER

1997 F-250 HD/350/SUPER DUTY

For diagnostic information, refer to section 13-06, 13-07 and 18-04 of the Service Manual.



# HORN/CIGAR LIGHTER 44-2

1997 F-250 HD/350/SUPER DUTY

## CELL 44 CONNECTOR REFERENCE LIST

CONNECTOR	CELL-PAGE
C202	150-6
C219	31-5
C227	28-12

Official Licensed Product

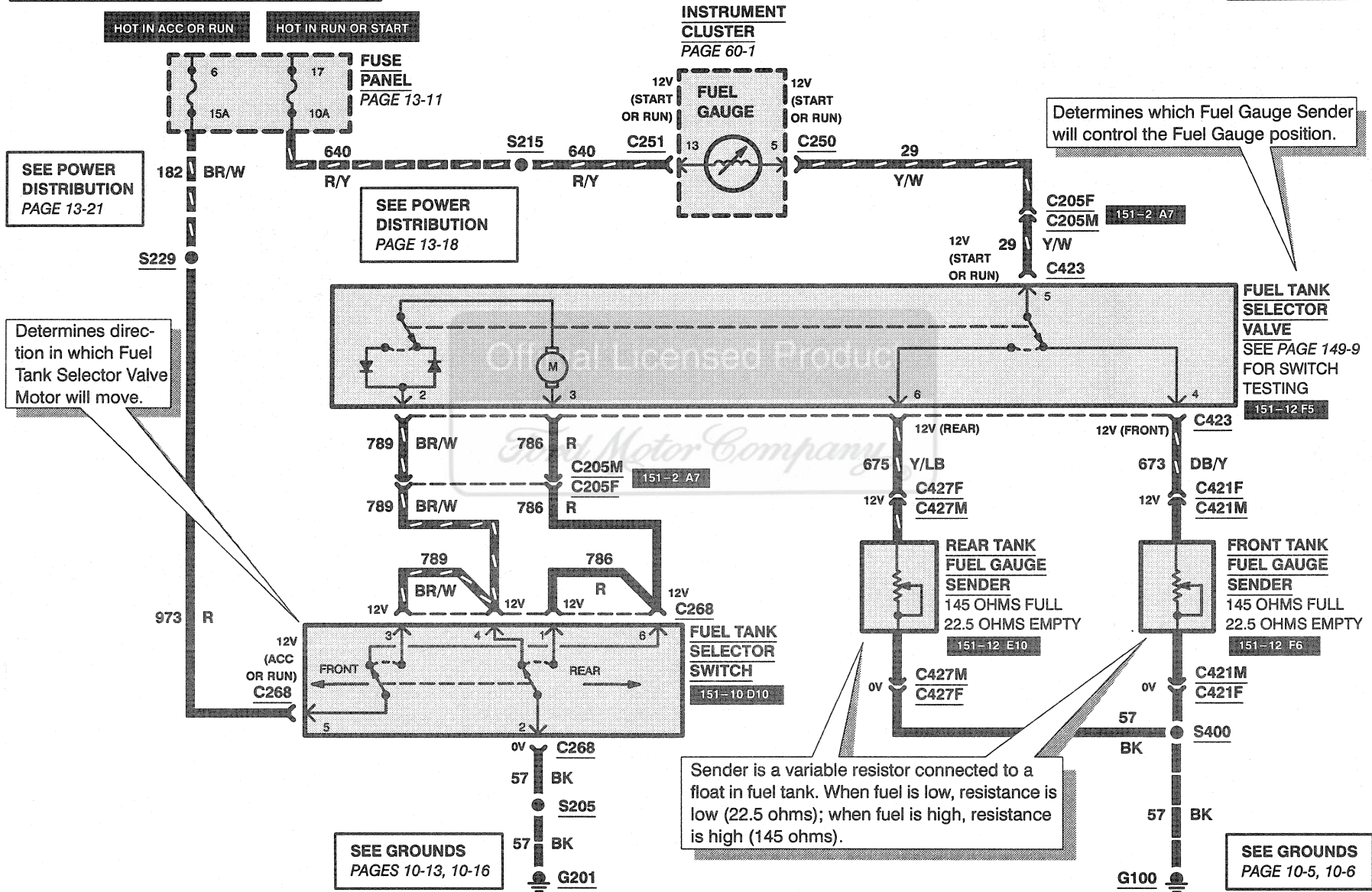
*Ford Motor Company*®

# 49-1 FUEL TANK SELECTOR

1997 F-250 HD/350/SUPER DUTY

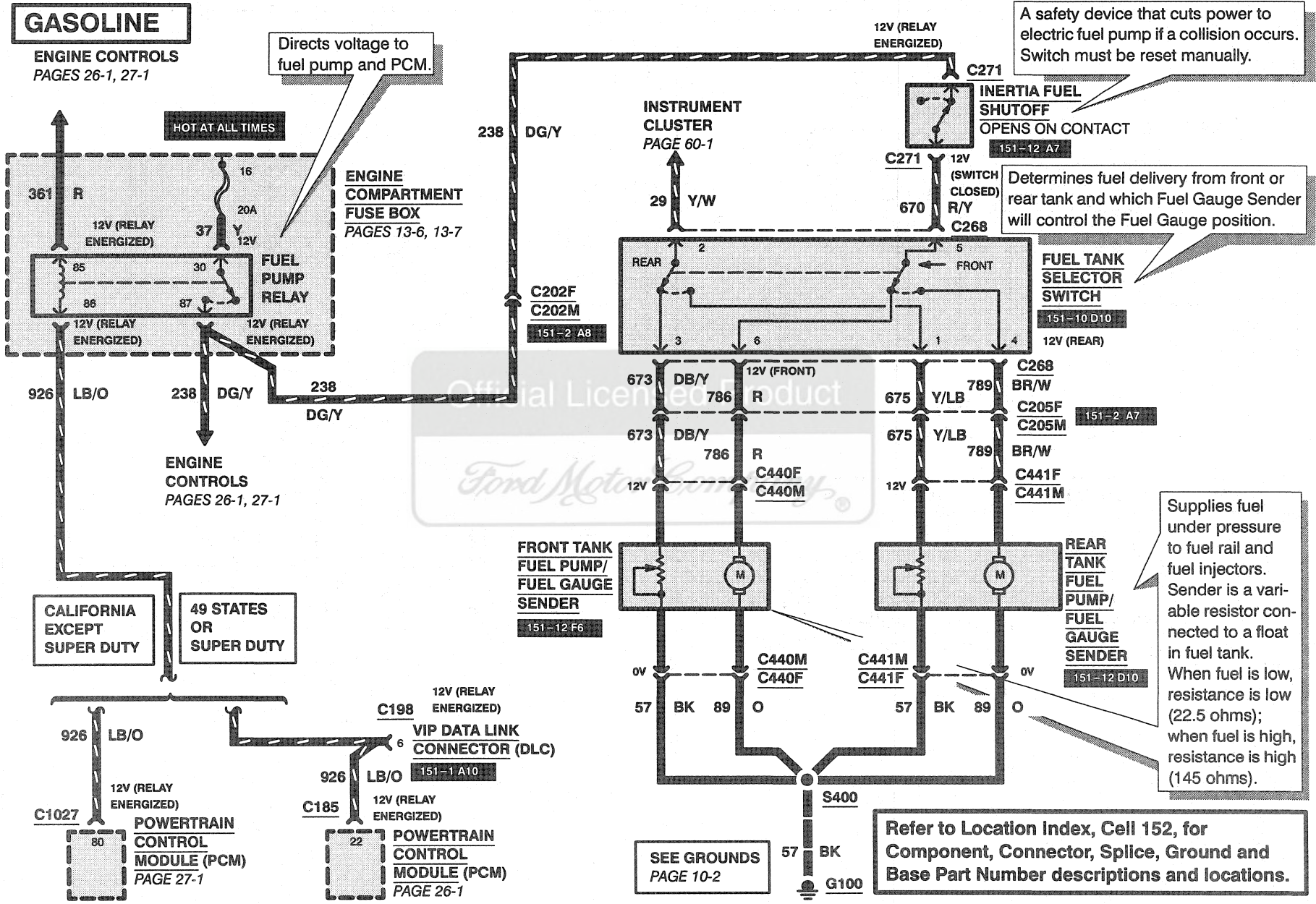
For diagnostic information, refer to section 10-01 of the Service Manual.

**DIESEL**



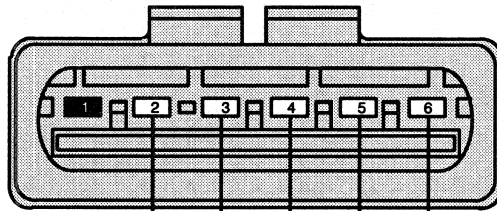
# FUEL TANK SELECTOR 49-2

1997 F-250 HD/350/SUPER DUTY



# 49-3 FUEL TANK SELECTOR

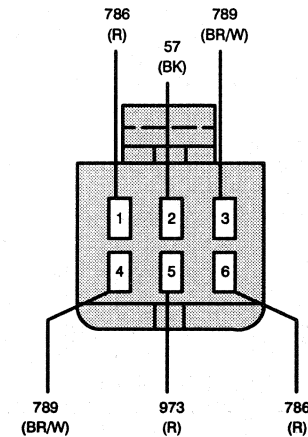
1997 F-250 HD/350/SUPER DUTY



789 (BR/W)  
786 (R)  
673 (DB/Y)  
29 (Y/W)  
675 (Y/LB)

**C423 (GRAY)**  
**FUEL TANK SELECTOR VALVE**

PIN	CIRCUIT	CIRCUIT FUNCTION
1	—	NOT USED
2	789 (BR/W)	Fuel Tank Selector to Fuel Pump Rear
3	786 (R)	Fuel Tank Selector to Fuel Pump Front
4	673 (DB/Y)	Selector Switch to Mid Ship Tank
5	29 (Y/W)	Fuel Gauge to Sender
6	675 (Y/LB)	Selector Switch To AFT Axle Tank



**C268 (GRAY)**

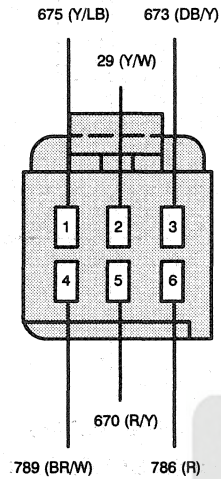
**FUEL TANK SELECTOR SWITCH  
(DIESEL ONLY)**

PIN	CIRCUIT	CIRCUIT FUNCTION
1	786 (R)	Fuel Tank Selector to Fuel Pump Front
2	57 (BK)	Ground
3	789 (BR/W)	Fuel Tank Selector to Fuel Pump Rear
4	789 (BR/W)	Fuel Tank Selector to Fuel Pump Rear
5	973 (R)	Batt Feed (ACC or RUN)
6	786 (R)	Same as Pin 1



# FUEL TANK SELECTOR 49-4

1997 F-250 HD/350/SUPER DUTY



**C268 (GRAY)**  
**FUEL TANK SELECTOR SWITCH**  
**(GASOLINE ONLY)**

## CELL 49 CONNECTOR REFERENCE LIST

CONNECTOR	SECTION-PAGE
C185	26-9
C202	150-6
C250	60-9
C251	60-9
C205	150-9
C1027	28-13
C1027	27-11

PIN	CIRCUIT	CIRCUIT FUNCTION
1	675 (Y/LB)	Selector Switch to AFT Axle Tank
2	29 (Y/W)	Fuel Gauge to Sender
3	673 (DB/Y)	Selector Switch to Mid Ship Tank
4	789 (BR/W)	Fuel Tank Selector to Fuel Pump Rear
5	670 (R/Y)	Inertia, Fuel Shutoff Switch to Fuel Tank
6	786 (R)	Selector Switch Fuel Tank Selector to Fuel Pump Front

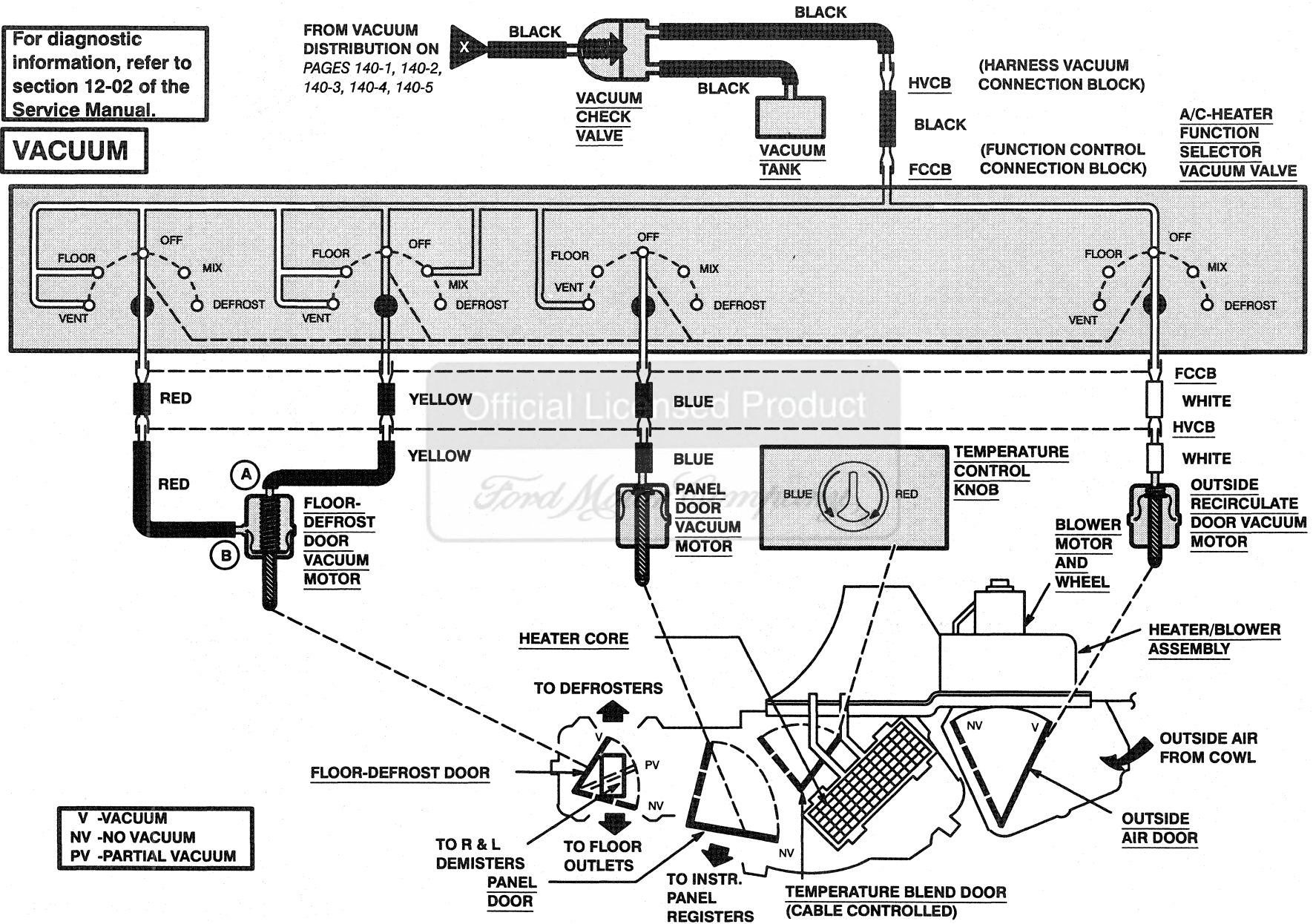
# 53-1 HEATER

1997 F-250 HD/350/SUPER DUTY

For diagnostic information, refer to section 12-02 of the Service Manual.

## VACUUM

FROM VACUUM DISTRIBUTION ON PAGES 140-1, 140-2, 140-3, 140-4, 140-5



V - VACUUM  
 NV - NO VACUUM  
 PV - PARTIAL VACUUM



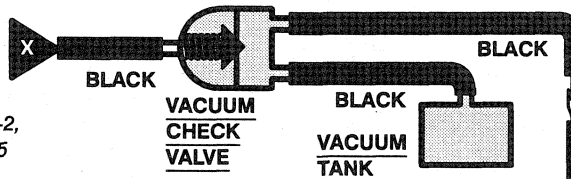
# 54-1 AIR CONDITIONER/HEATER

1997 F-250 HD/350/SUPER DUTY

For diagnostic information, refer to section 12-00 and 12-03 of the Service Manual.

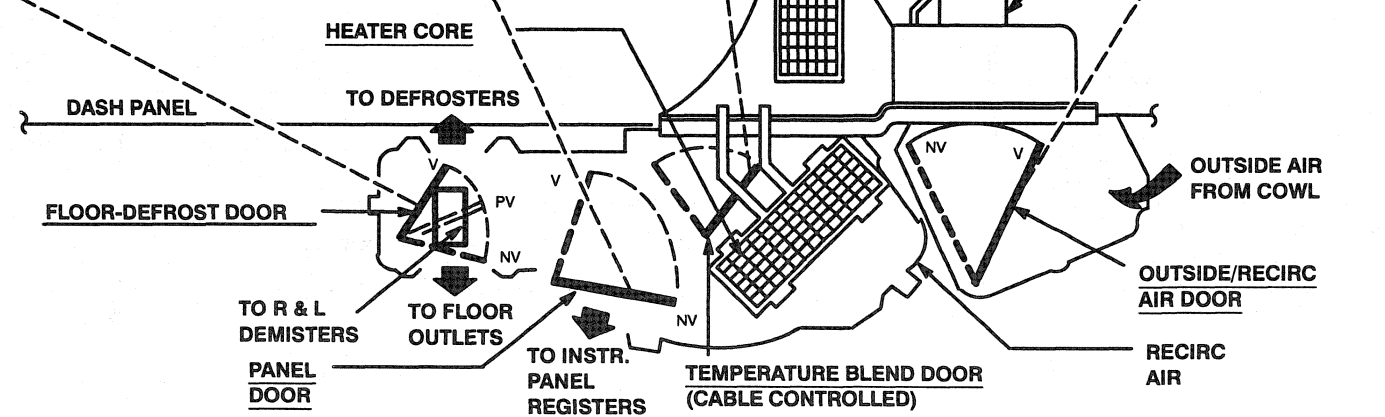
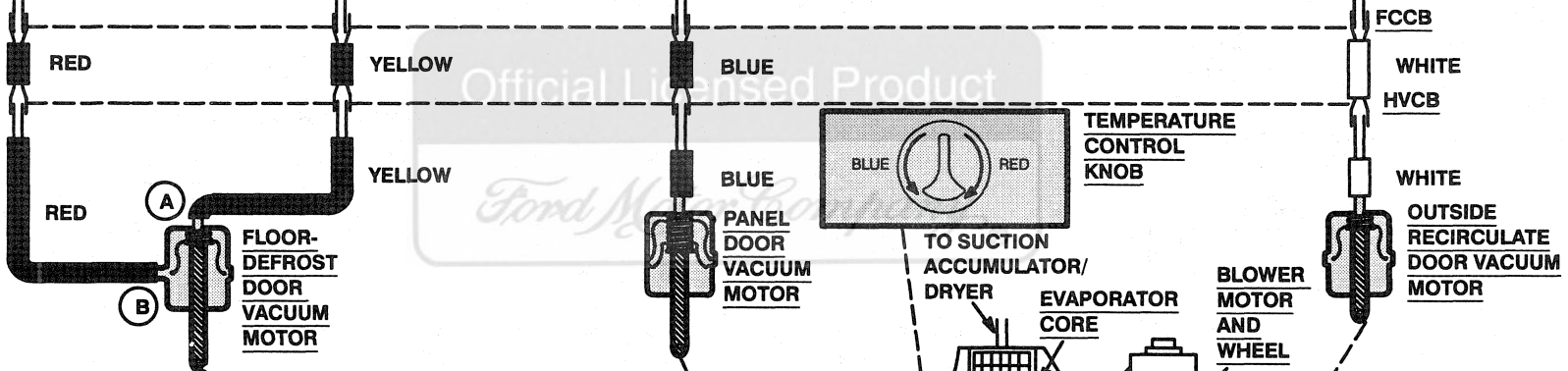
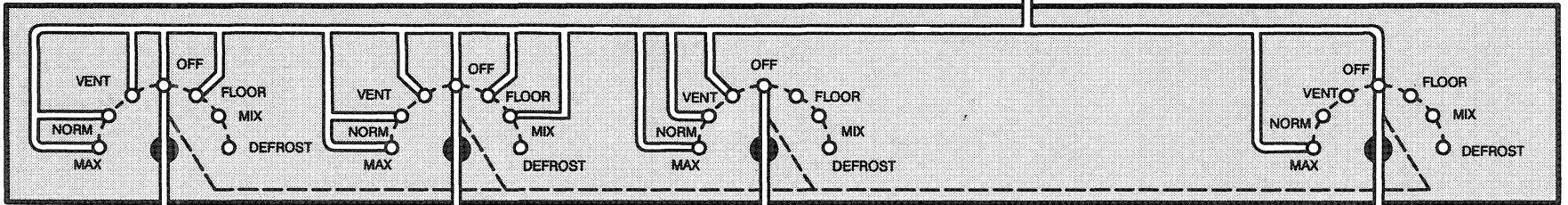
FROM VACUUM DISTRIBUTION ON PAGES 140-1, 140-2, 140-3, 140-4, 140-5

## VACUUM



**HVCB** (HARNES VACUUM CONNECTION BLOCK)  
**BLACK** (FUNCTION CONTROL CONNECTION BLOCK)  
**FCCB** (FUNCTION CONTROL CONNECTION BLOCK)

**A/C-HEATER FUNCTION SELECTOR VACUUM VALVE**



**V - VACUUM**  
**NV - NO VACUUM**  
**PV - PARTIAL VACUUM**

# AIR CONDITIONER/HEATER 54-2

1997 F-250 HD/350/SUPER DUTY

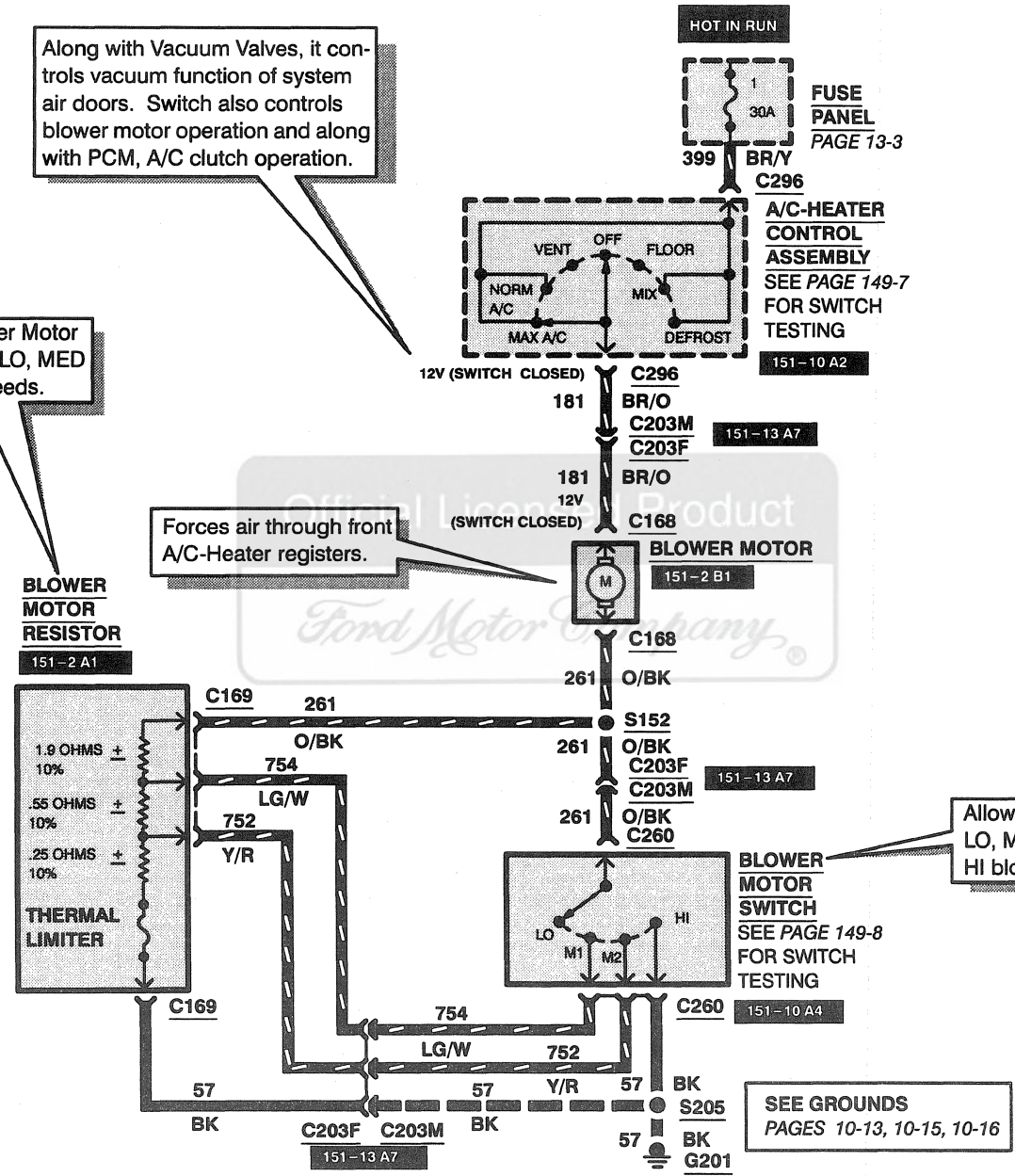
**GASOLINE**

Along with Vacuum Valves, it controls vacuum function of system air doors. Switch also controls blower motor operation and along with PCM, A/C clutch operation.

Limits speed of Blower Motor so that it operates at LO, MED LO, MED HI or HI speeds.

Forces air through front A/C-Heater registers.

Allows operator to select LO, MED LO, MED HI or HI blower motor speeds.



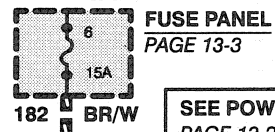
# 54-3 AIR CONDITIONER/HEATER

1997 F-250 HD/350/SUPER DUTY

**GASOLINE**

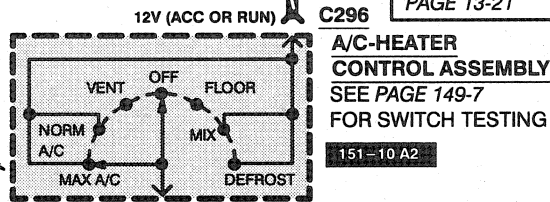
Along with Vacuum Valves, it controls vacuum function of system air doors. Switch also controls blower motor operation and along with PCM, A/C clutch operation.

HOT IN ACC OR RUN



SEE POWER DISTRIBUTION  
PAGE 13-21

\* 49 STATES OR SUPER DUTY  
\*\* CALIFORNIA EXCEPT SUPER DUTY

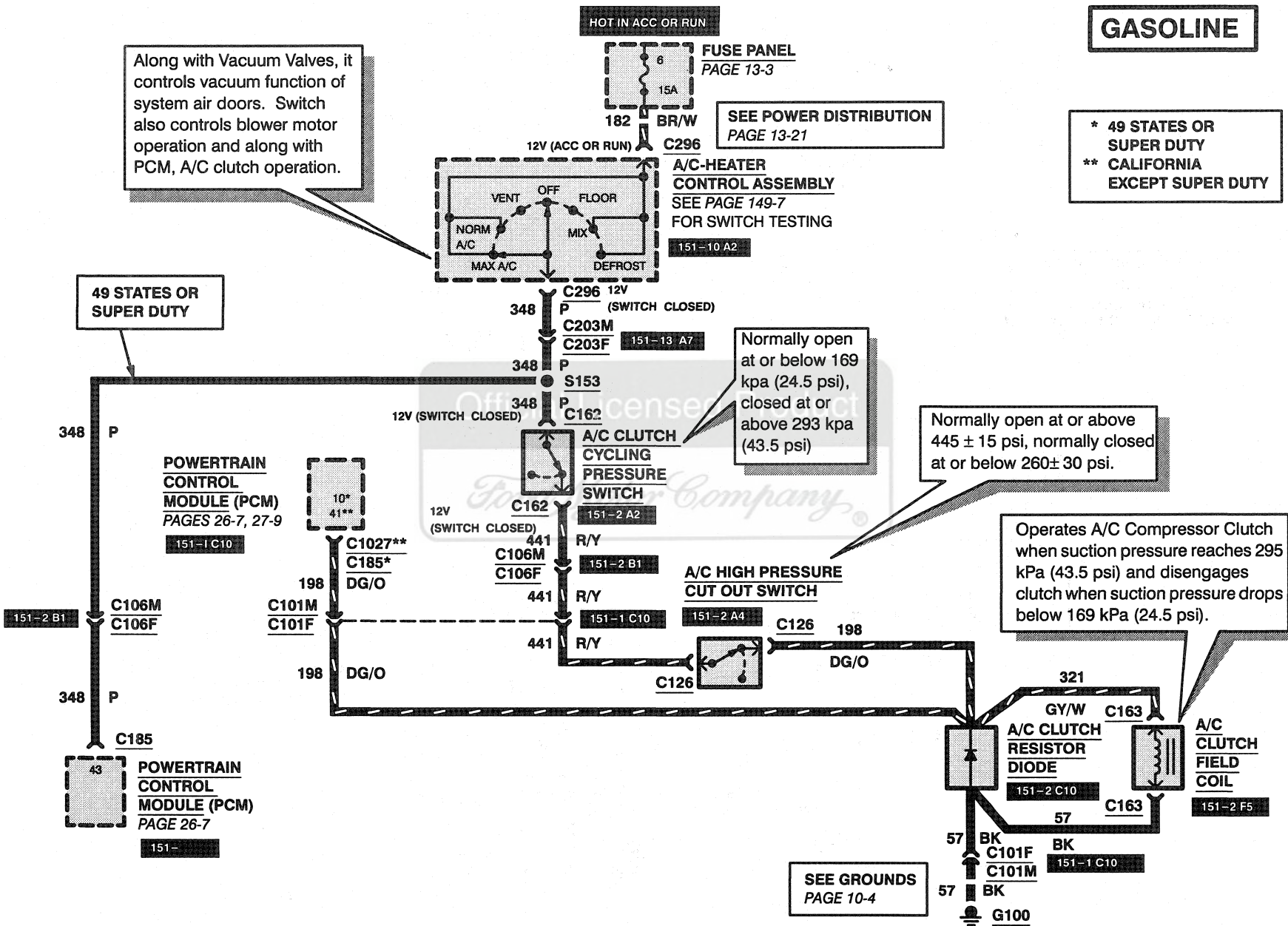


49 STATES OR SUPER DUTY

Normally open at or below 169 kpa (24.5 psi), closed at or above 293 kpa (43.5 psi)

Normally open at or above 445 ± 15 psi, normally closed at or below 260 ± 30 psi.

Operates A/C Compressor Clutch when suction pressure reaches 295 kPa (43.5 psi) and disengages clutch when suction pressure drops below 169 kPa (24.5 psi).



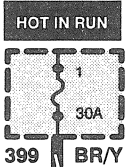
# AIR CONDITIONER/HEATER 54-4

1997 F-250 HD/350/SUPER DUTY

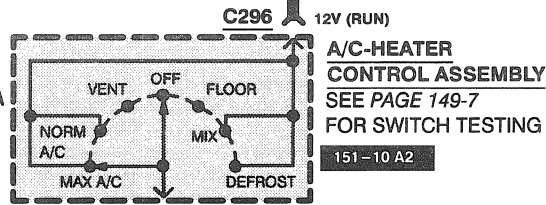
**DIESEL**

Along with Vacuum Valves, it controls vacuum function of system air doors. Switch also controls blower motor operation and along with PCM, A/C clutch operation.

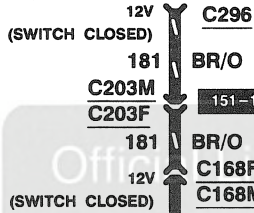
Limits speed of Blower Motor so that it operates at LO, MED LO, MED HI or HI speeds.



**FUSE PANEL**  
PAGE 13-17



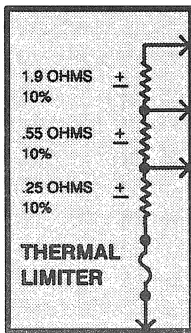
**A/C-HEATER CONTROL ASSEMBLY**  
SEE PAGE 149-7  
FOR SWITCH TESTING  
151-10 A2



**BLOWER MOTOR**  
151-7 C1

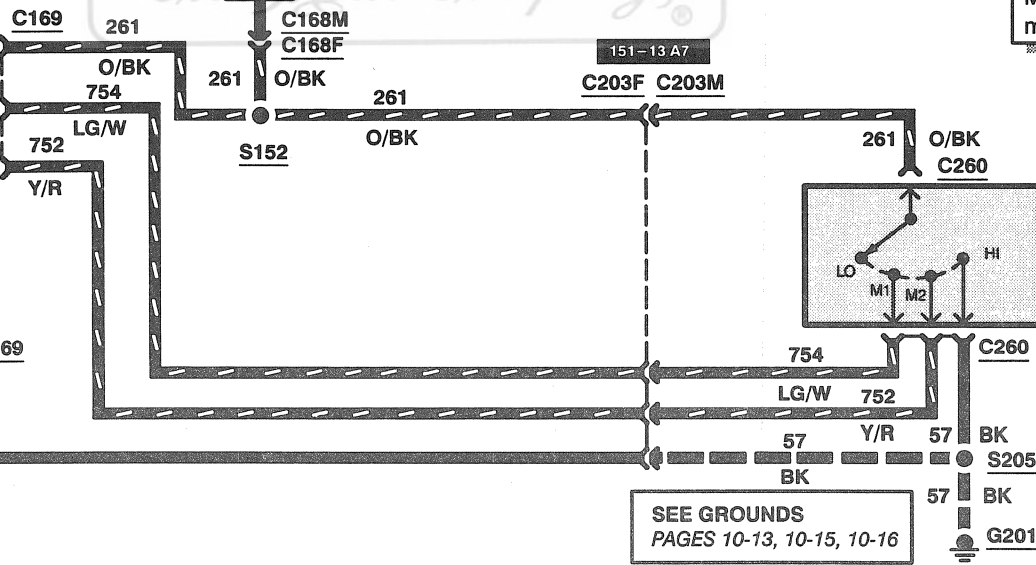
Forces air through front A/C-Heater registers.

**BLOWER MOTOR RESISTOR**  
151-7 A1

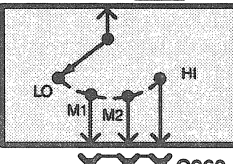


**THERMAL LIMITER**

57 BK



Allows operator to select LO, MED LO, MED HI or HI blower motor speeds.



**BLOWER MOTOR SWITCH**  
SEE PAGE 149-8  
FOR SWITCH TESTING  
151-10 A4

SEE GROUNDS  
PAGES 10-13, 10-15, 10-16

# 54-5 AIR CONDITIONER/HEATER

1997 F-250 HD/350/SUPER DUTY

**DIESEL**

Along with Vacuum Valves, it controls vacuum function of system air doors. Switch also controls blower motor operation and along with PCM, A/C clutch operation.

HOT IN ACC OR RUN

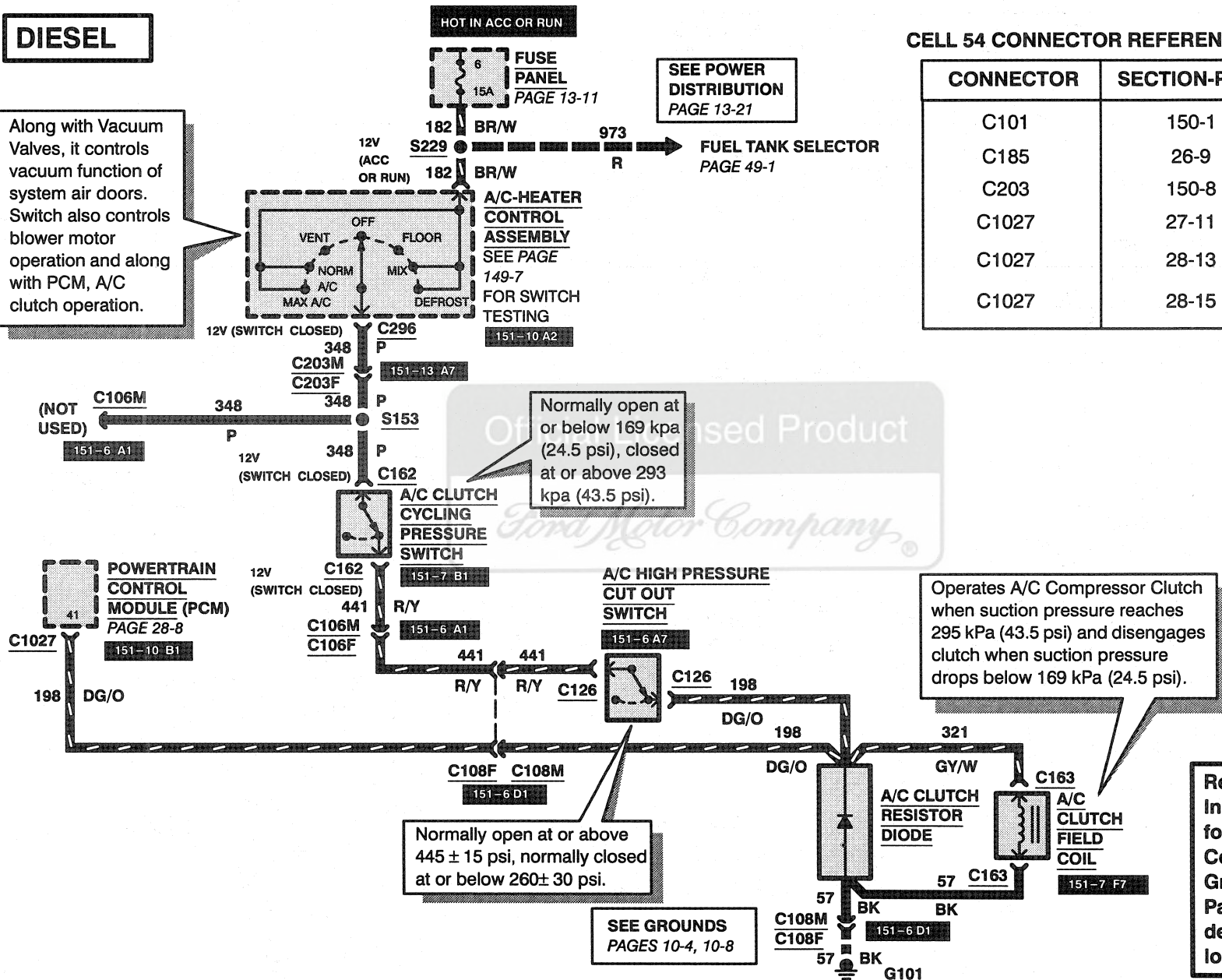


SEE POWER DISTRIBUTION PAGE 13-21

FUEL TANK SELECTOR PAGE 49-1

## CELL 54 CONNECTOR REFERENCE LIST

CONNECTOR	SECTION-PAGE
C101	150-1
C185	26-9
C203	150-8
C1027	27-11
C1027	28-13
C1027	28-15



Normally open at or below 169 kpa (24.5 psi), closed at or above 293 kpa (43.5 psi).

Operates A/C Compressor Clutch when suction pressure reaches 295 kPa (43.5 psi) and disengages clutch when suction pressure drops below 169 kPa (24.5 psi).

Normally open at or above 445 ± 15 psi, normally closed at or below 260 ± 30 psi.

SEE GROUNDS PAGES 10-4, 10-8

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

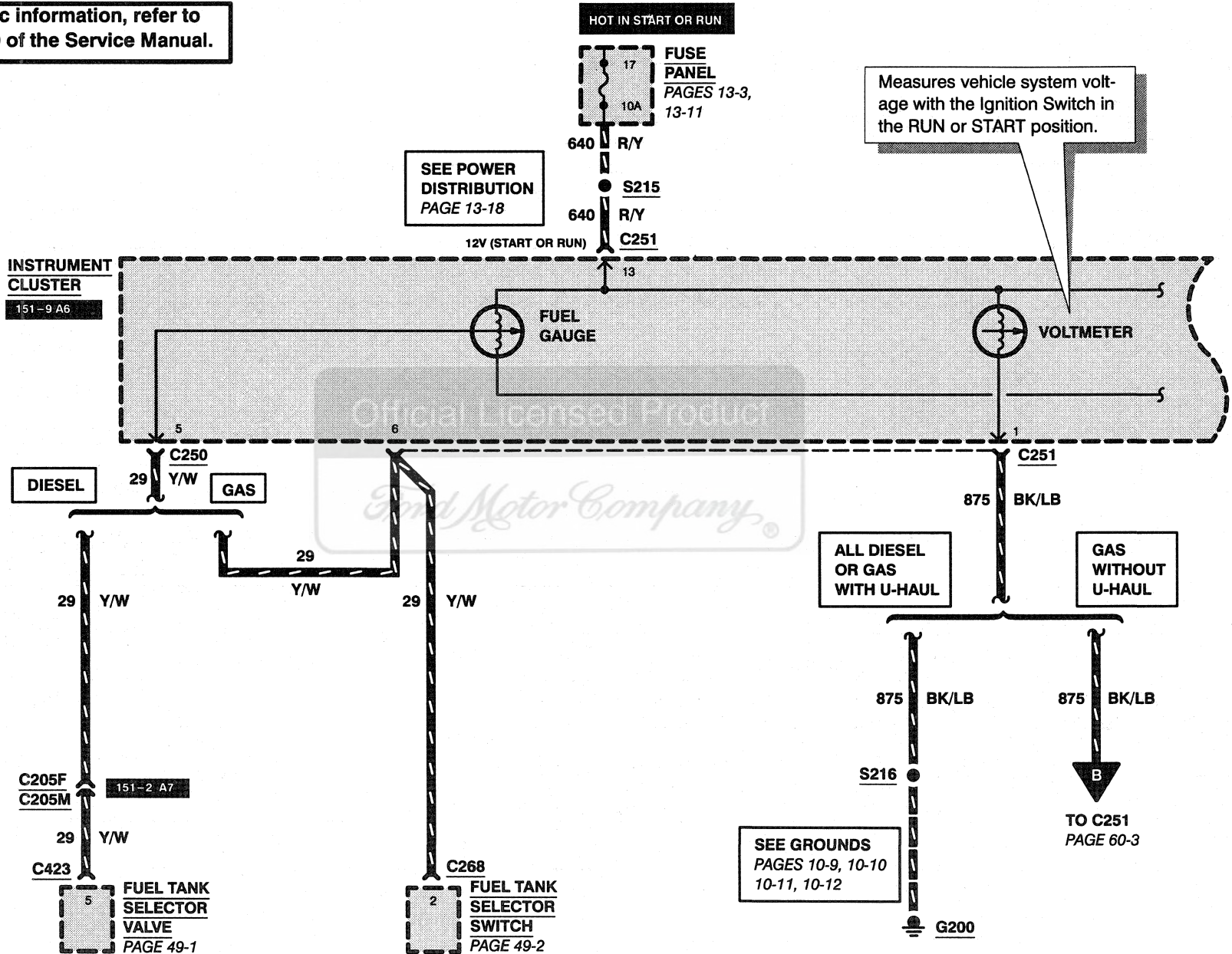




# 60-1 INSTRUMENT CLUSTER

1997 F-250 HD/350/SUPER DUTY

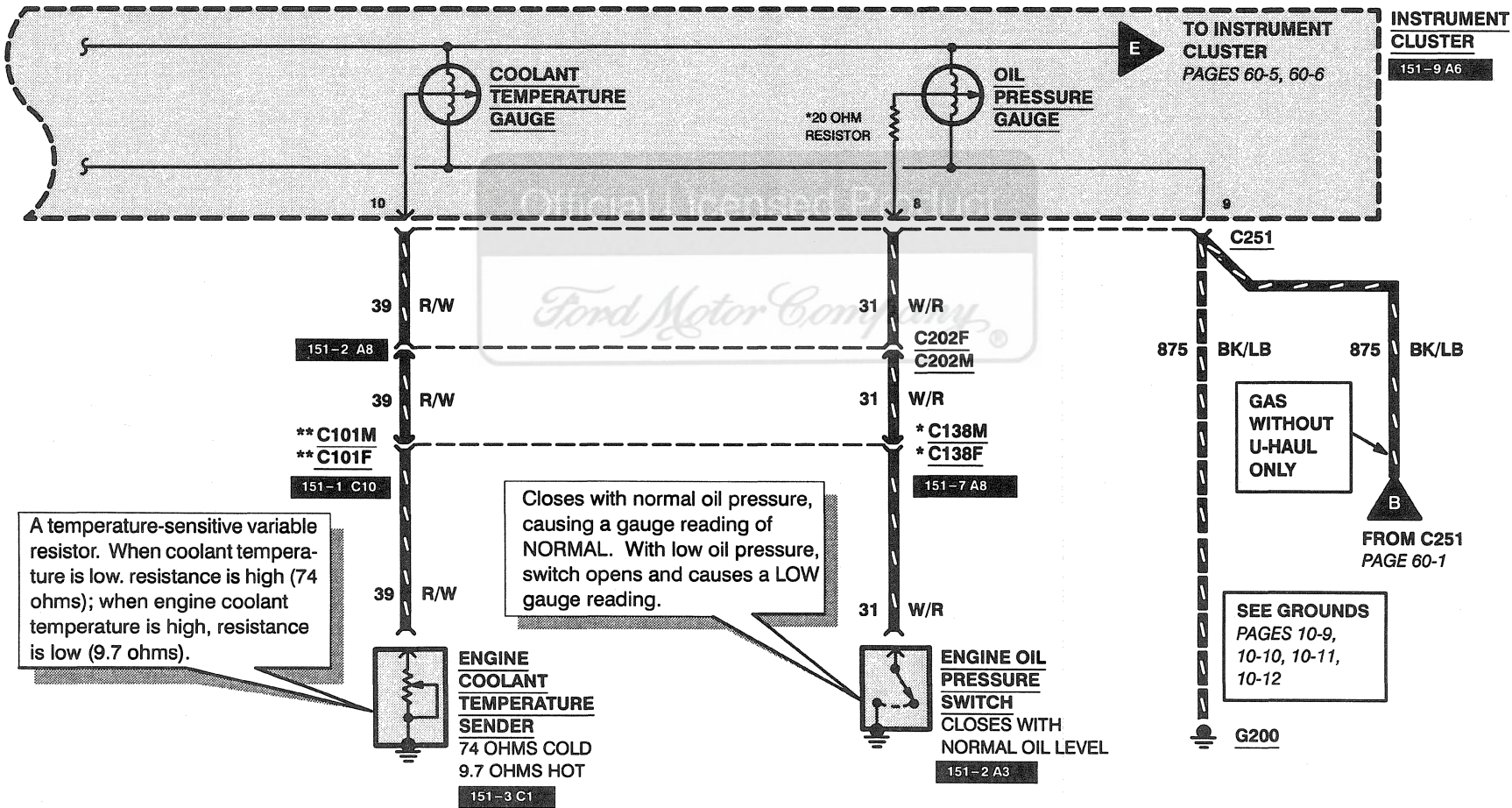
For diagnostic information, refer to section 13-00 of the Service Manual.



# INSTRUMENT CLUSTER 60-2

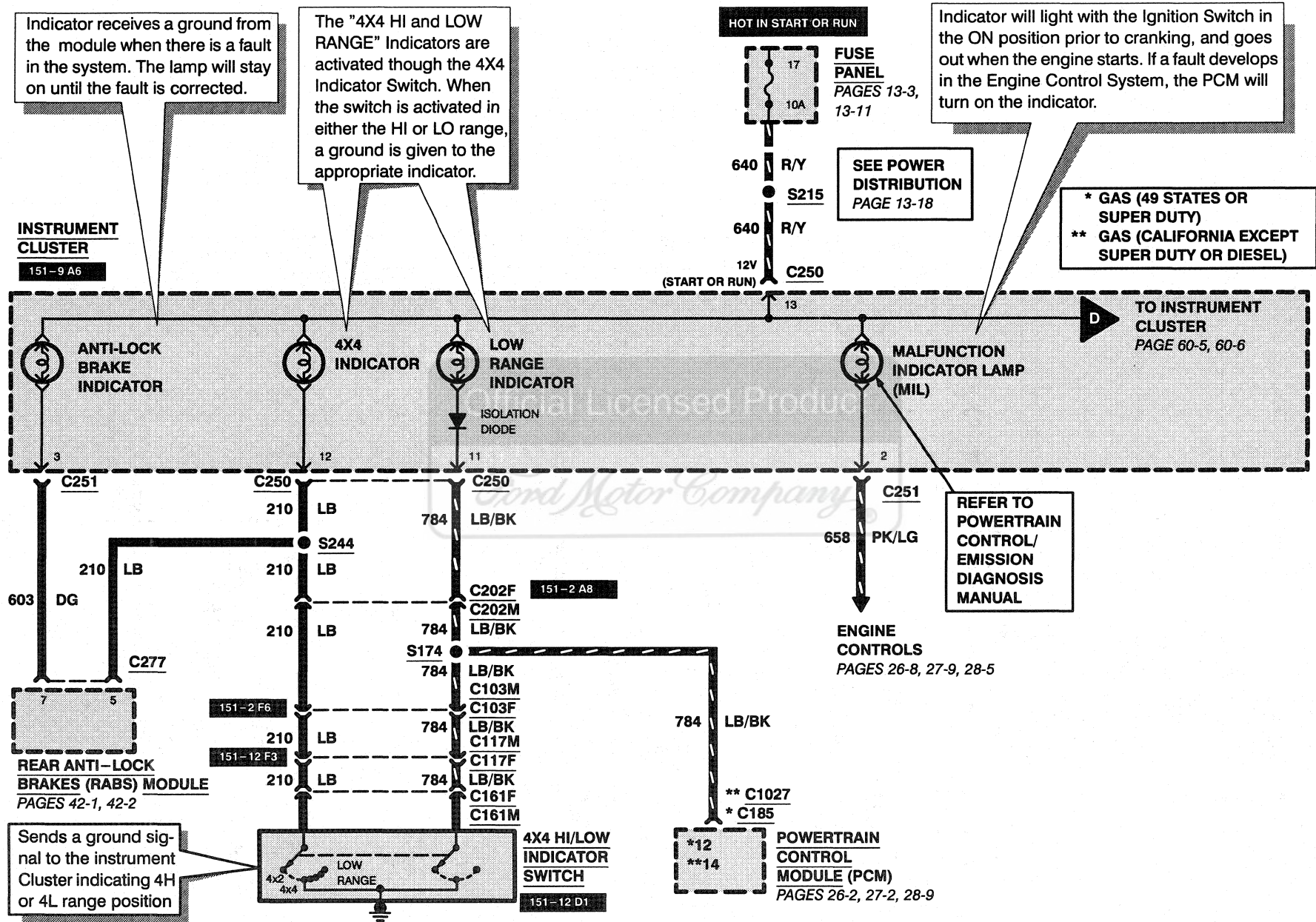
1997 F-250 HD/350/SUPER DUTY

\* DIESEL  
\*\* GASOLINE



# 60-3 INSTRUMENT CLUSTER

1997 F-250 HD/3350/SUPER DUTY



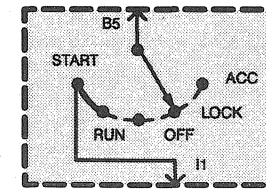
# INSTRUMENT CLUSTER 60-4

1997 F-250 HD/350/SUPER DUTY

\* DIESEL  
\*\* GASOLINE

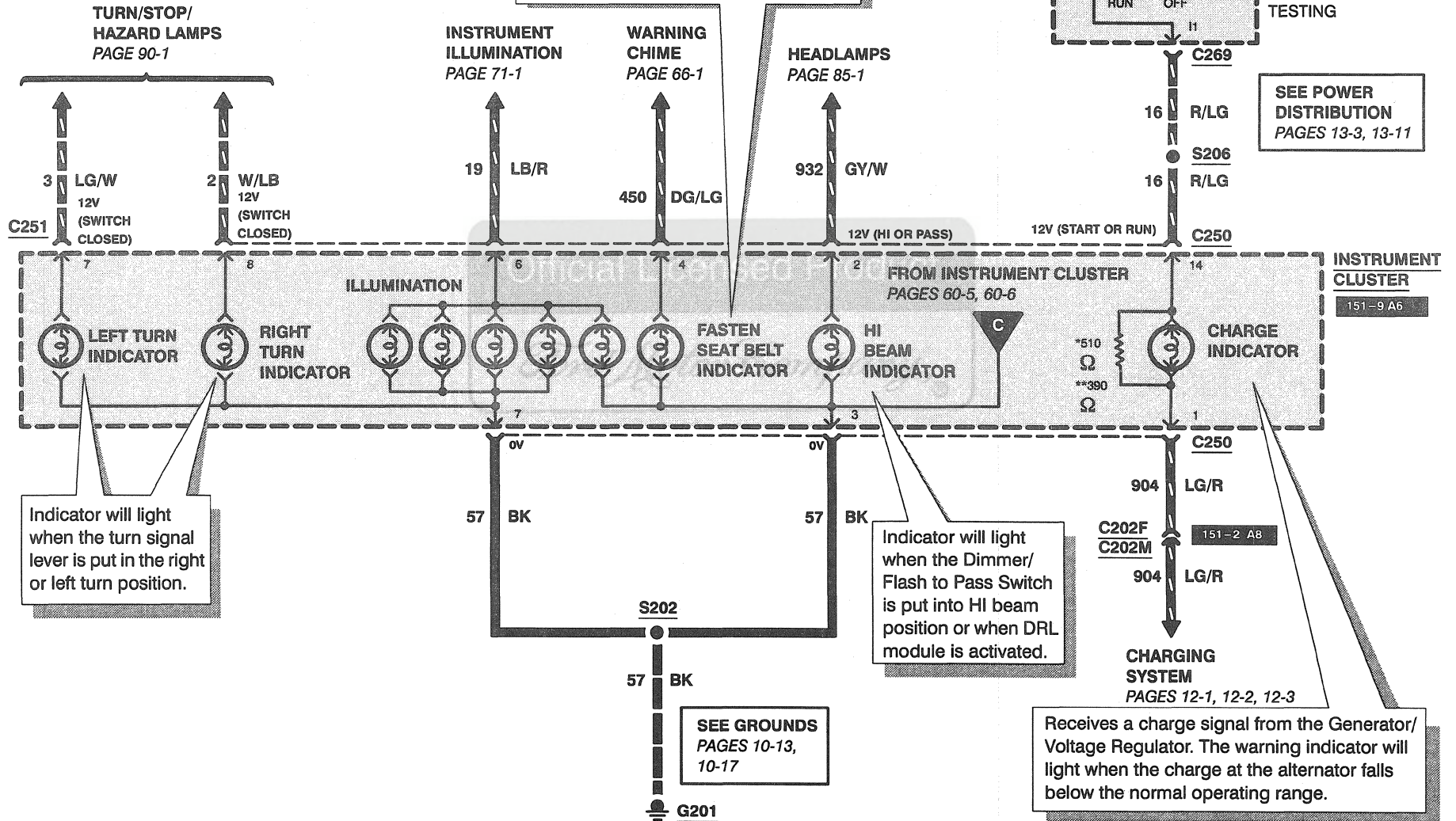
Receives a signal from the Warning Chime Module. The indicator will light for 4 to 8 seconds when the Ignition Switch is initially put in the RUN position, whether the belts are buckled or not.

HOT AT ALL TIMES



**IGNITION SWITCH**  
PAGES 13-3, 13-11  
SEE PAGE 149-2  
FOR SWITCH TESTING

SEE POWER DISTRIBUTION  
PAGES 13-3, 13-11



TURN/STOP/  
HAZARD LAMPS  
PAGE 90-1

INSTRUMENT  
ILLUMINATION  
PAGE 71-1

WARNING  
CHIME  
PAGE 66-1

HEADLAMPS  
PAGE 85-1

FROM INSTRUMENT CLUSTER  
PAGES 60-5, 60-6

INSTRUMENT  
CLUSTER  
151-9 A6

Indicator will light when the turn signal lever is put in the right or left turn position.

Indicator will light when the Dimmer/Flash to Pass Switch is put into HI beam position or when DRL module is activated.

Receives a charge signal from the Generator/Voltage Regulator. The warning indicator will light when the charge at the alternator falls below the normal operating range.

SEE GROUNDS  
PAGES 10-13,  
10-17

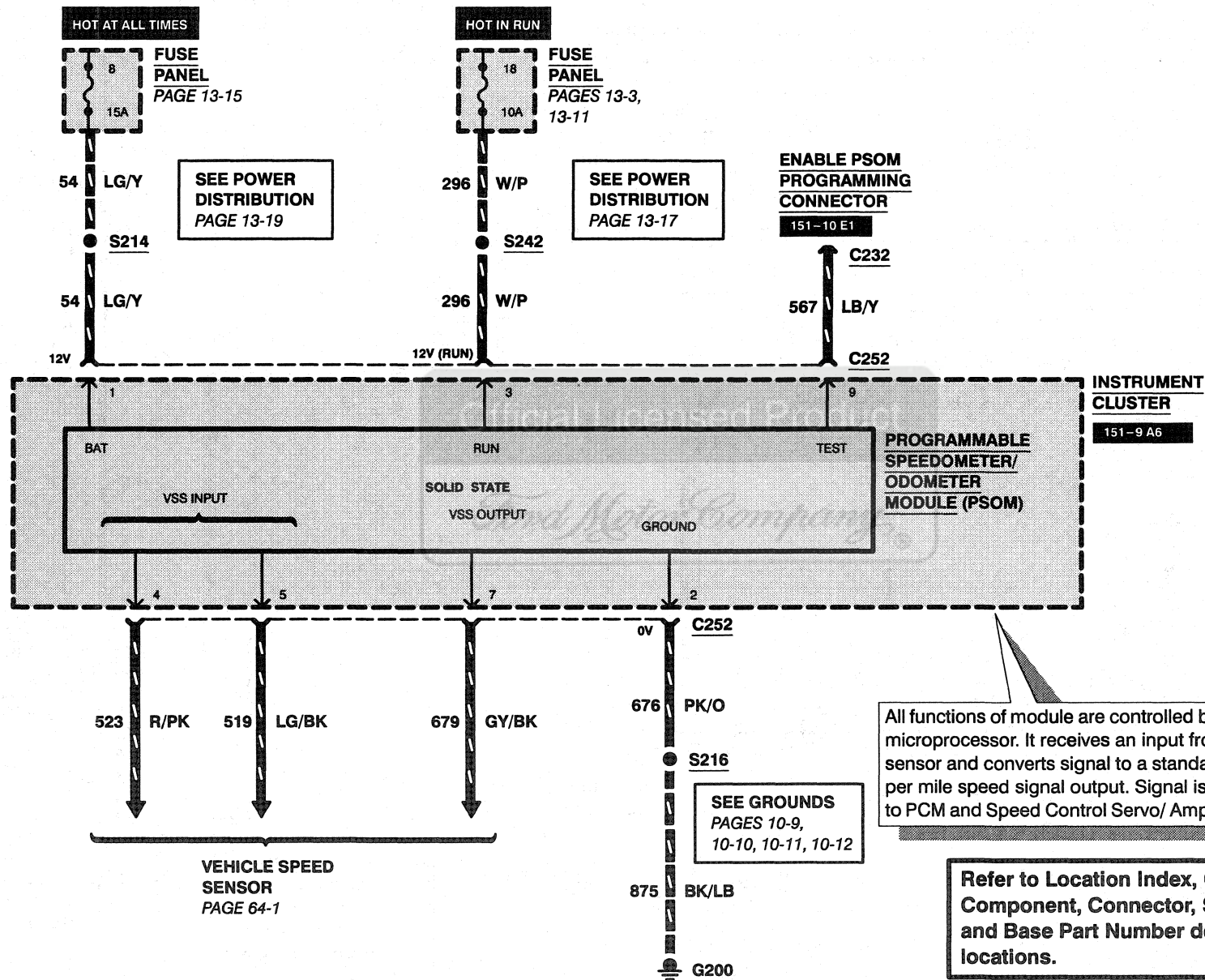
CHARGING SYSTEM  
PAGES 12-1, 12-2, 12-3





# 60-7 INSTRUMENT CLUSTER

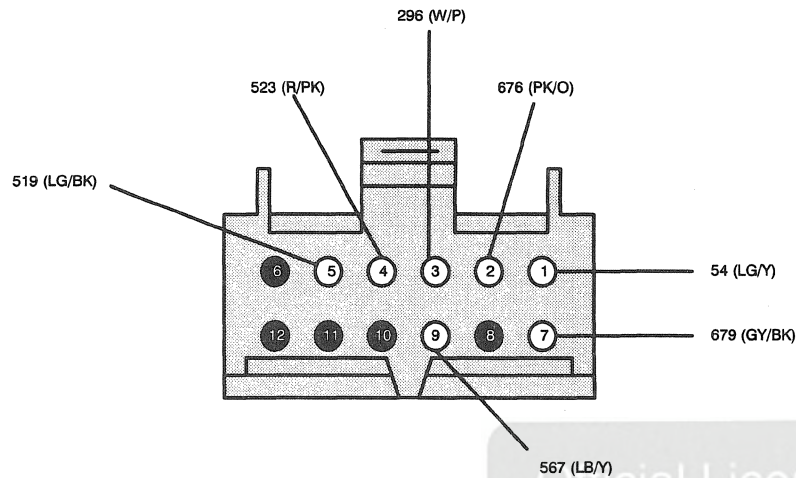
1997 F-250 HD/350/SUPER DUTY





# INSTRUMENT CLUSTER 60-8

1997 F-250 HD/350/SUPER DUTY



**C252 (BLACK)**  
**PROGRAMMABLE SPEEDOMETER/ODOMETER**  
**MODULE (PSOM)**

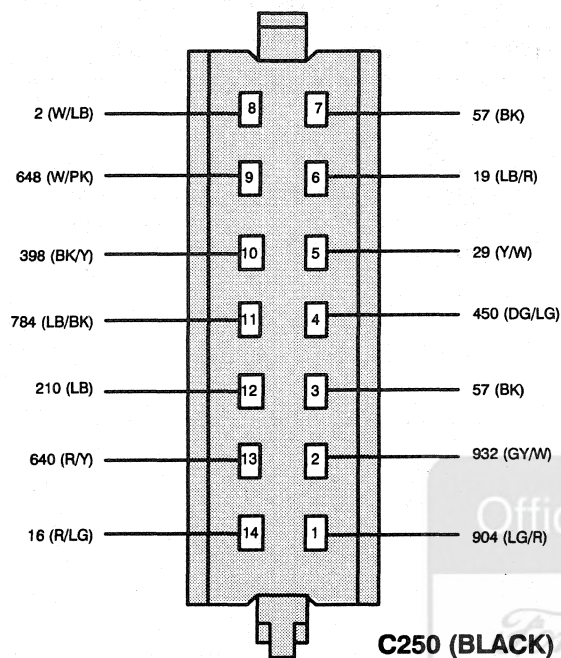
## CELL 60 CONNECTOR REFERENCE LIST

CONNECTOR	SECTION-PAGE
C101	150-1
C138	150-4
C177	97-3
C185	26-9
C202	150-6
C205	150-9
C268	49-3
C1027	27-11
C1027	28-13
C1027	28-15

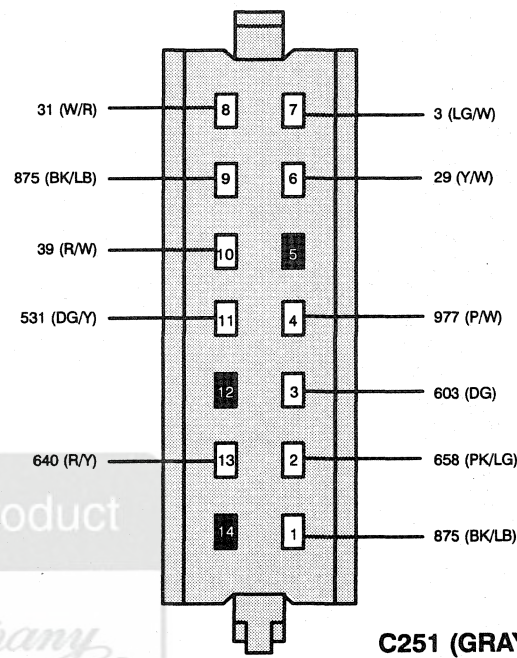
PIN	CIRCUIT	CIRCUIT FUNCTION
1	54 (LG/Y)	Battery Input
2	676 (PK/O)	Ground
3	296 (W/P)	Hot In RUN
4	523 (R/PK)	Rear Anti-Lock Brake Signal Input to PSOM
5	519 (LG/BK)	Rear Anti-Lock Brake Signal Return
6	—	NOT USED
7	679 (GY/BK)	Speed Output to Instrument Cluster, Speed Control Amplifier to Powertrain Control Module
8	—	NOT USED
9	567 (LB/Y)	PSOM Programming Connector
10	—	NOT USED
11	—	NOT USED
12	—	NOT USED

# 60-9 INSTRUMENT CLUSTER

1997 F-250 HD/350/SUPER DUTY



**C250 (BLACK)  
INSTRUMENT CLUSTER**



**C251 (GRAY)  
INSTRUMENT CLUSTER**

PIN	CIRCUIT	CIRCUIT FUNCTION	PIN	CIRCUIT	CIRCUIT FUNCTION
1	904 (LG/R)	Charge Indicator Lamp	1	875 (BK/LB)	Unique Ground to Gauges
2	932 (GY/W)	High Beam Indicator Input	2	658 (PK/LG)	"Check Engine Indicator" Input
3	57 (BK)	Ground	3	603 (DG)	Anti-Lock Brake Warning Indicator Input
4	450 (DG/LG)	Fasten Belt Indicator Input	4	977 (P/W)	Brake Warning Indicator Input
5	29 (Y/W)	Fuel Level Input (With Tachometer)	5	-	NOT USED
6	19 (LB/R)	Instrument Cluster Illumination Input	6	29 (Y/W)	Fuel Level Input (W/O Tachometer)
7	57 (BK)	Ground	7	3 (LG/W)	Left Turn Input
8	2 (W/LB)	Right Turn Input	8	31 (W/R)	Oil Pressure Input
9	648 (W/PK)	Tachometer Input Signal	9	875 (BK/LB)	Unique Ground to Gauges
10	398 (BK/Y)	Tachometer Ground	10	39 (R/W)	Temperature Input
11	784 (LB/BK)	Low Range Indicator Input	11	531 (DG/Y)	Brake Fluid Level Warning Indicator
12	210 (LB)	4x4 Indicator Input	12	-	NOT USED
13	640 (R/Y)	Power Supply in RUN and START	13	640 (R/Y)	Power to Gauges, Hot in START or RUN
14	16 (R/LG)	Charge Indicator Input	14	-	NOT USED

# NOTES 60-10

1997 F-250 HD/350/SUPER DUTY

Official Licensed Product

*Ford Motor Company*

# 64-1 VEHICLE SPEED SENSOR (VSS)

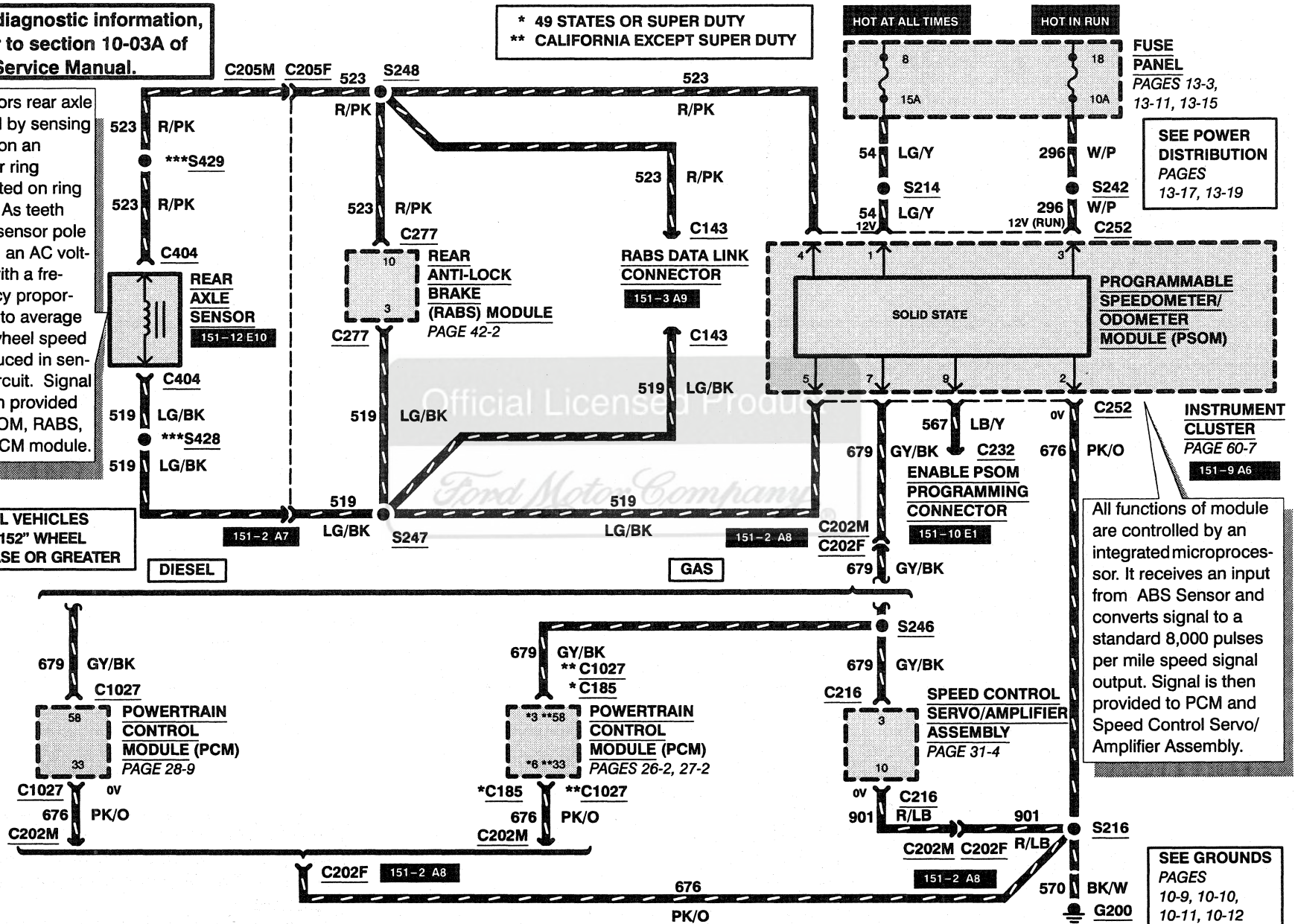
1997 F-250 HD/350/SUPER DUTY

For diagnostic information, refer to section 10-03A of the Service Manual.

\* 49 STATES OR SUPER DUTY  
\*\* CALIFORNIA EXCEPT SUPER DUTY

Monitors rear axle speed by sensing teeth on an exciter ring mounted on ring gear. As teeth pass sensor pole piece, an AC voltage with a frequency proportional to average rear wheel speed is induced in sensor circuit. Signal is then provided to PSOM, RABS, and PCM module.

\*\*\* ALL VEHICLES W/152" WHEEL BASE OR GREATER



FUSE PANEL  
PAGES 13-3,  
13-11, 13-15

SEE POWER DISTRIBUTION  
PAGES 13-17, 13-19

INSTRUMENT CLUSTER  
PAGE 60-7  
151-9 A6

All functions of module are controlled by an integrated microprocessor. It receives an input from ABS Sensor and converts signal to a standard 8,000 pulses per mile speed signal output. Signal is then provided to PCM and Speed Control Servo/Amplifier Assembly.

SEE GROUNDS  
PAGES 10-9, 10-10,  
10-11, 10-12

# VEHICLE SPEED SENSOR (VSS) 64-2

1997 F-250 HD/350/SUPER DUTY

## CELL 64 CONNECTOR REFERENCE LIST

CONNECTOR	SECTION-PAGE
C185	26-9
C202	150-6
C205	150-9
C216	31-5
C252	60-8
C277	42-3
C1027	27-11
C1027	28-13
C1027	28-15

Official Licensed Product

*Ford Motor Company*

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

# 65-1 WARNING INDICATORS

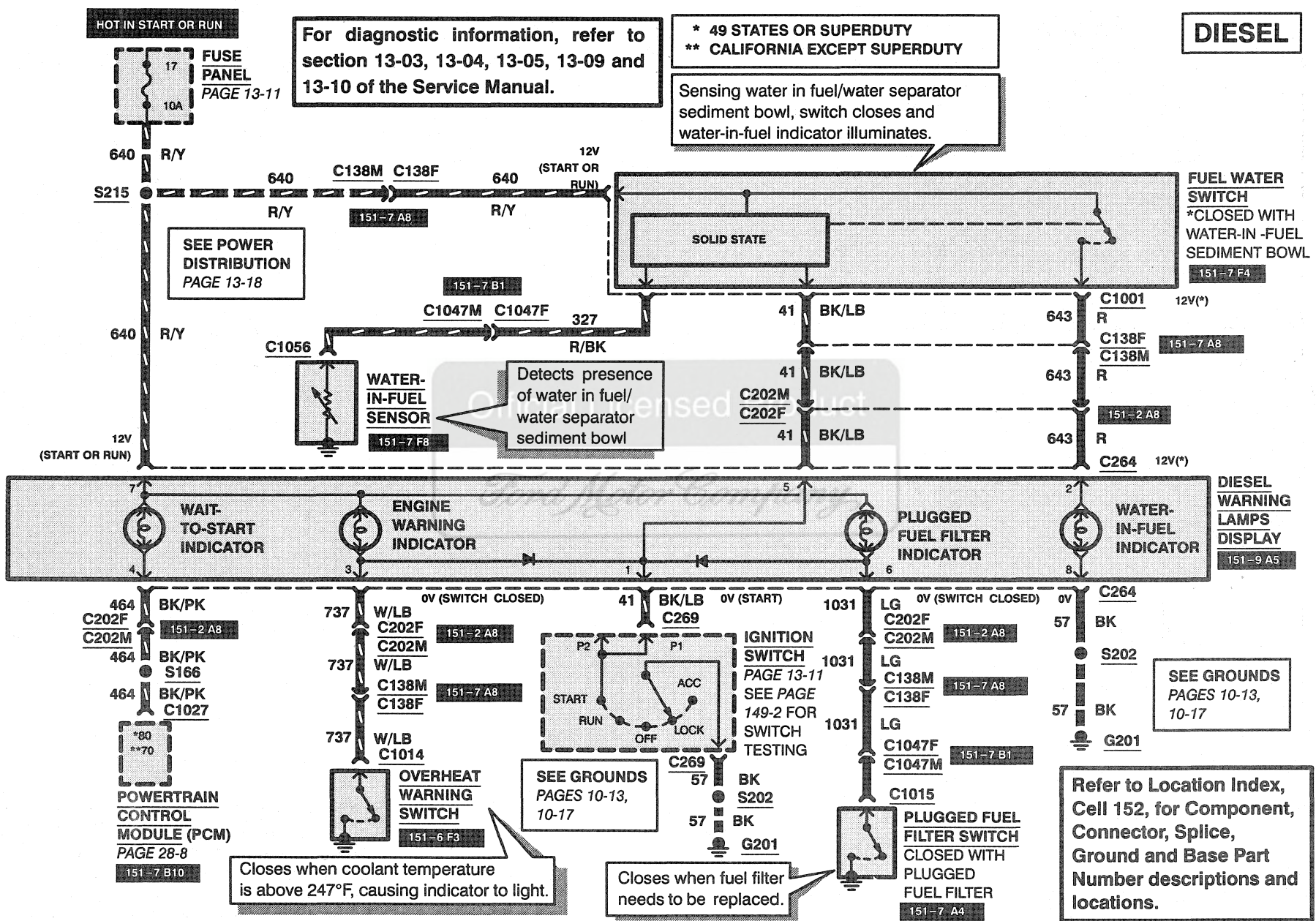
1997 F-250 HD/350/SUPER DUTY

**DIESEL**

For diagnostic information, refer to section 13-03, 13-04, 13-05, 13-09 and 13-10 of the Service Manual.

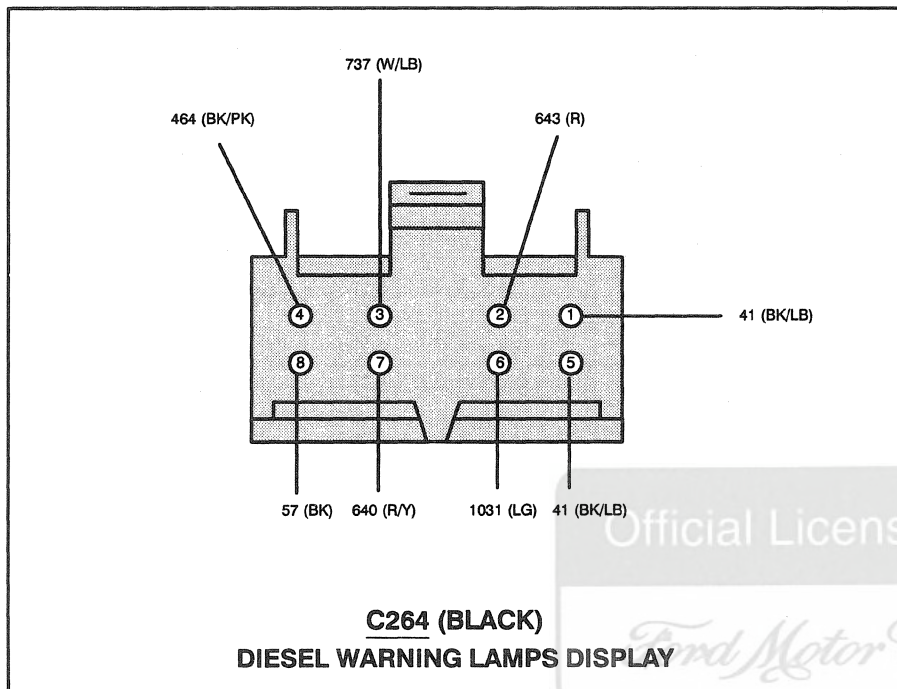
\* 49 STATES OR SUPERDUTY  
 \*\* CALIFORNIA EXCEPT SUPERDUTY

Sensing water in fuel/water separator sediment bowl, switch closes and water-in-fuel indicator illuminates.



# WARNING INDICATORS 65-2

1997 F-250 HD/350/SUPER DUTY



## CELL 65 CONNECTOR REFERENCE LIST

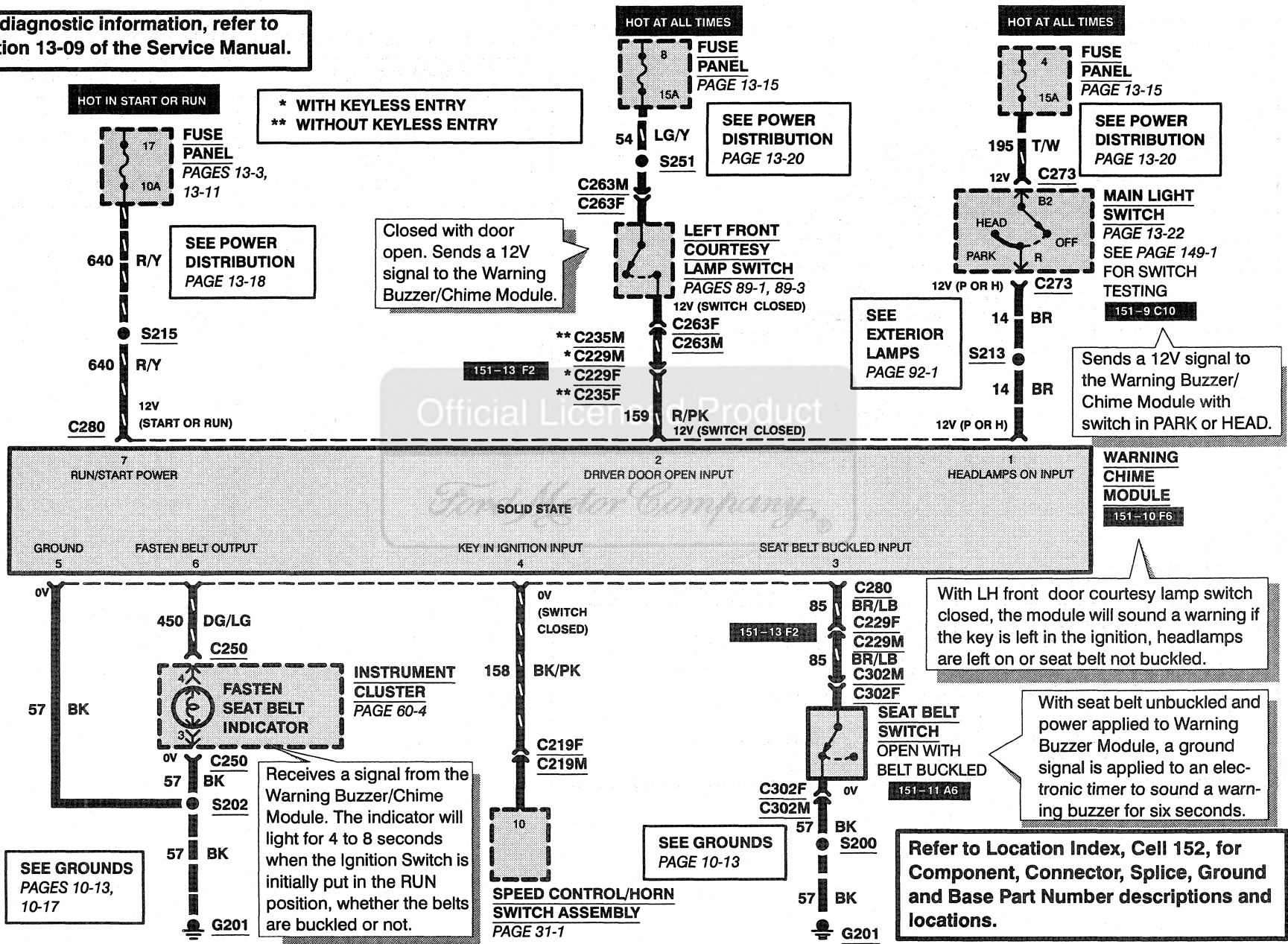
CONNECTOR	SECTION-PAGE
C138	150-4
C202	150-6
C1027	28-13
C1027	28-15
C1047	150-16

PIN	CIRCUIT	CIRCUIT FUNCTION
1	41 (BK/LB)	Ignition Switch
2	643 (R)	Water-in-Fuel Indicator Input
3	737 (W/LB)	Overheat Warning Switch Input
4	464 (BK/PK)	Glow Plug Relay
5	41 (BK/LB)	Fuel Water Switch Input
6	1031 (LG)	Plugged Fuel Filter Switch Input
7	640 (R/Y)	Battery Input
8	57 (BK)	Ground

# 66-1 WARNING CHIME

1997 F-250 HD/350/SUPER DUTY

For diagnostic information, refer to section 13-09 of the Service Manual.



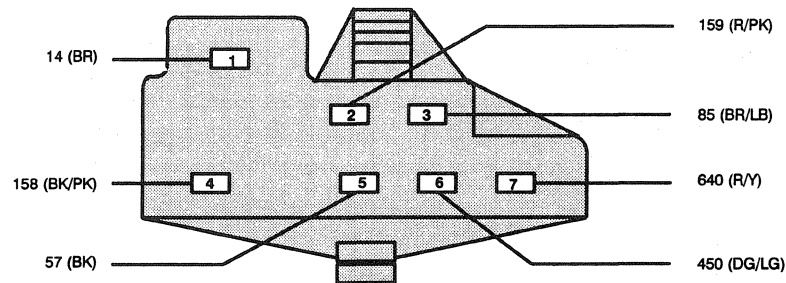


# WARNING CHIME 66-2

1997 F-250 HD/350/SUPER DUTY

## CELL 66 CONNECTOR REFERENCE LIST

CONNECTOR	SECTION-PAGE
C219	31-5
C229	150-13
C250	60-9
C273	13-24



**C280 (GRAY)**

**WARNING CHIME MODULE**

Official Licensed Product

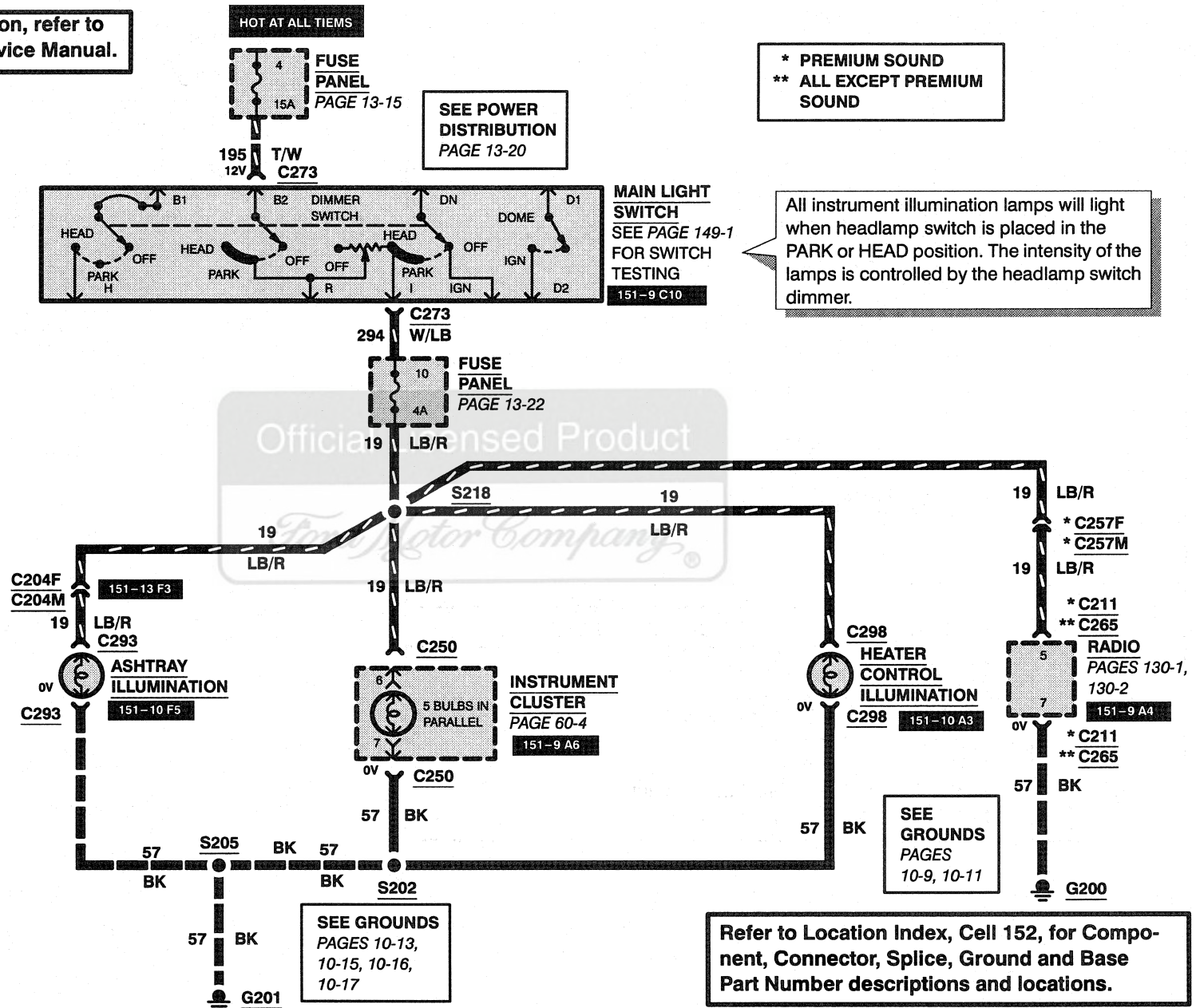
*Ford Motor Company*

PIN	CIRCUIT	CIRCUIT FUNCTION
1	14 (BR)	Headlamps On
2	159 (R/PK)	LF Door Open
3	85 (BR/LB)	LF Seat Belt Switch
4	158 (BK/PK)	Key in Ignition Input
5	57 (BK)	Ground
6	450 (DG/LG)	Fasten Seat Belt Output
7	640 (R/Y)	Power (RUN/START)

# 71-1 INSTRUMENT ILLUMINATION

1997 F-250 HD/350/SUPER DUTY

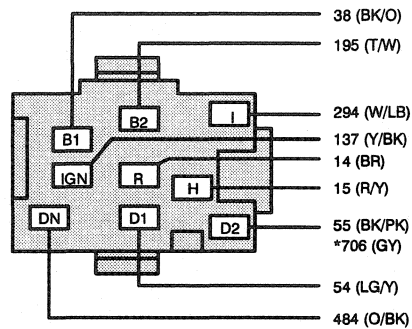
For diagnostic information, refer to section 13-01 of the Service Manual.



# INSTRUMENT ILLUMINATION 71-2

1997 F-250 HD/350/SUPER DUTY

\* W/REMOTE KEYLESS ENTRY



**C273 (GRAY)**  
**MAIN LIGHT SWITCH**

## CELL 71 CONNECTOR REFERENCE LIST

CONNECTOR	SECTION-PAGE
C250	60-9
C257	130-3
C267	34-4

Official Licensed Product

*Ford Motor Company*

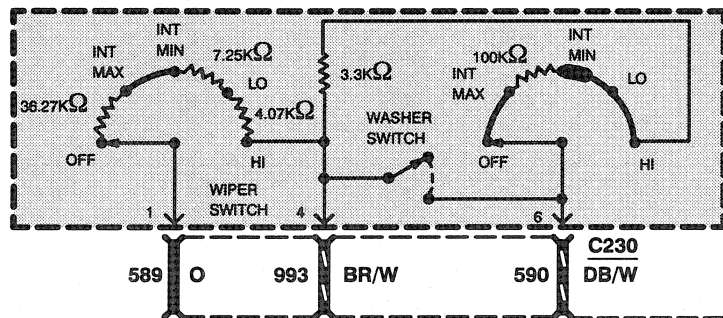
PIN	CIRCUIT	CIRCUIT FUNCTION
B2	195 (T/W)	B+ to Main Light Switch
B1	38 (BK/O)	B+ to Main Light Switch
D1	54 (LG/Y)	Interior Lamp Switch Feed
D2	*706 (GY)	Courtesy Lamp Switch to Courtesy Lamp
	55 (BK/PK)	Dome Lamp Switch to Dome Lamp
H	15 (R/Y)	Headlamp Dimmer Switch Feed
I	294 (W/LB)	Instrument Panel Lamps Feed
IGN	137 (Y/BK)	B+ to Main Light Switch
R	14 (BR)	Exterior Lamps Feed
DN	484 (O/BK)	Radio Illumination Feed

# 81-1 INTERVAL WIPER/WASHER

1997 F-250 HD/350/SUPER DUTY

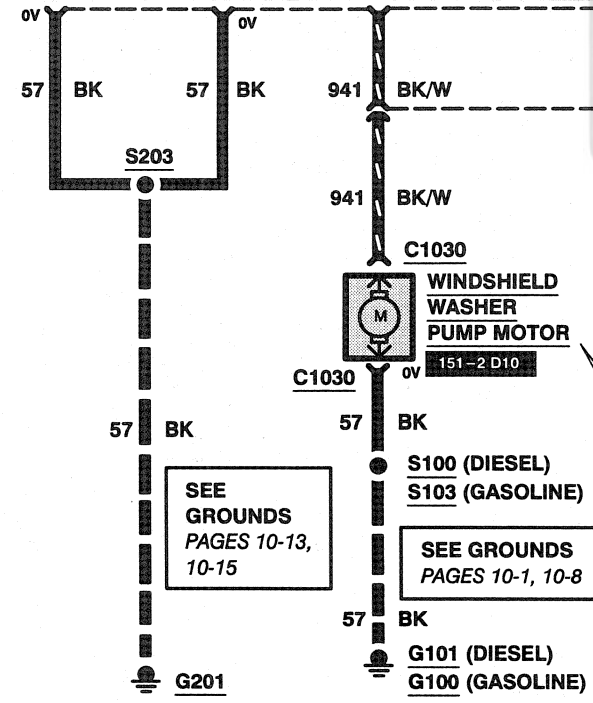
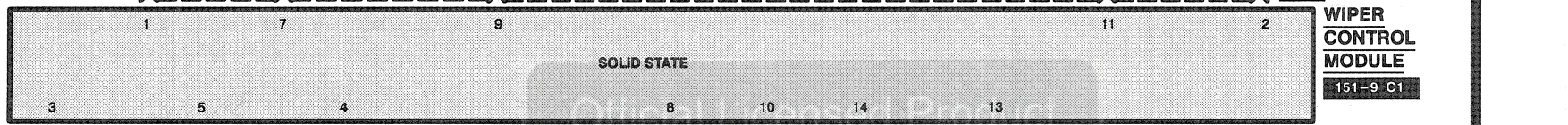
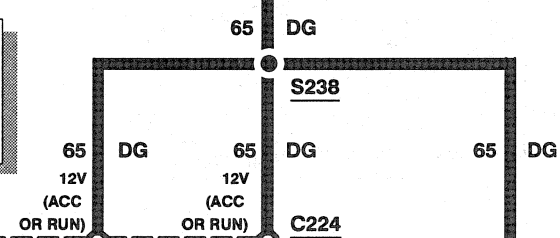
For diagnostic information, refer to section 01-16 of the Service Manual.

Allows driver to select Washer, LO, HI or Interval wiper functions.

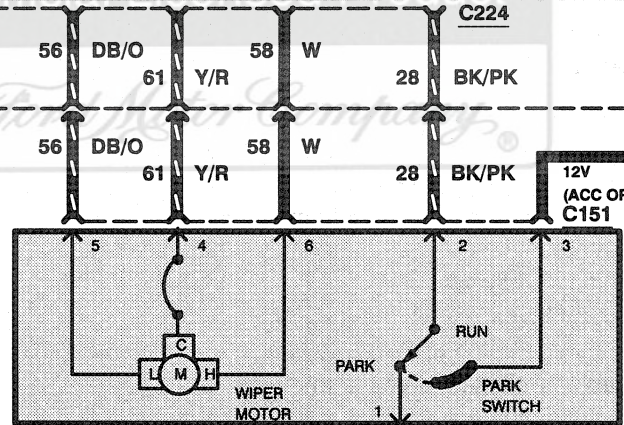


**MULTI-FUNCTION SWITCH**  
SEE PAGE 149-3 FOR SWITCH TESTING  
151-10 B10

Receives voltage from Multi-function Switch to perform Washer, LO, HI or Interval Wiper functions.

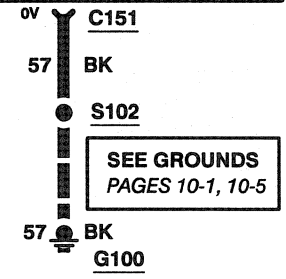


When activated the pump sprays washer solvent onto windshield.



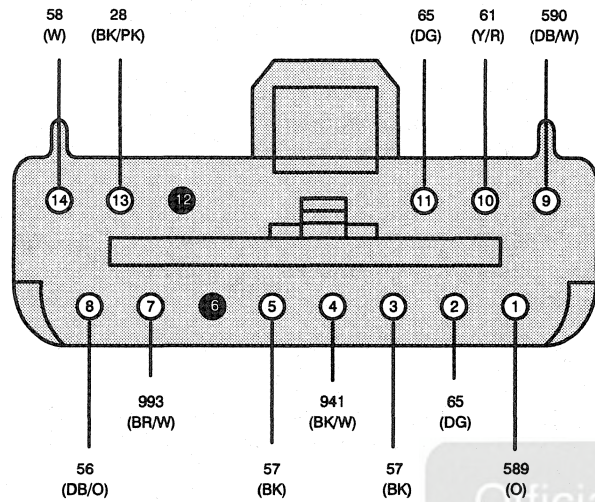
Operates at LO or HI speeds and contains a switch that allows the wiper motor to perform parking operations.

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



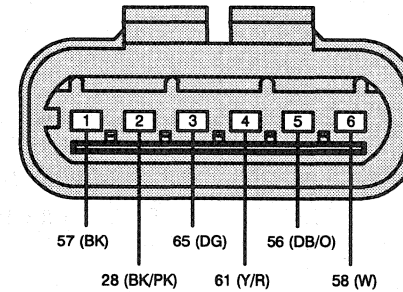
# INTERVAL WIPER/WASHER 81-2

1997 F-250 HD/350/SUPER DUTY



**C224**  
**WIPER CONTROL MODULE**

PIN	CIRCUIT	CIRCUIT FUNCTION
1	589 (O)	Multi-Function Switch (Wiper Mode)
2	65 (DG)	Power (Hot in ACC or RUN)
3	57 (BK)	Ground
4	941 (BK/W)	Power to Washer Pump Motor
5	57 (BK)	Ground
6	-	NOT USED
7	993 (BR/W)	Multi-Function Switch (Common)
8	56 (DB/O)	Wiper Motor (LO Speed)
9	590 (DB/W)	Multi-Function Switch (Interval Control)
10	61 (Y/R)	Wiper Motor (Common)
11	65 (DG)	Power (Hot in ACC or RUN)
12	-	NOT USED
13	28 (BK/PK)	Wiper Motor Park Switch
14	58 (W)	Wiper Motor (HI Speed)



**C151**  
**WINDSHIELD WIPER MOTOR**

PIN	CIRCUIT	CIRCUIT FUNCTION
1	57 (BK)	Ground
2	28 (BK/PK)	Wiper Motor Park Switch
3	65 (DG)	Power (Hot in ACC or RUN)
4	61 (Y/R)	Wiper Motor Common
5	56 (DB/O)	Wiper Motor (Lo Speed)
6	58 (W)	Wiper Motor (Hi Speed)

## CELL 81 CONNECTOR REFERENCE LIST

CONNECTOR	SECTION-PAGE
C230	90-5

# 81-3 INTERVAL WIPER/WASHER

1997 F-250 HD/350/SUPER DUTY

## TROUBLESHOOTING HINTS

CONDITION	POSSIBLE CAUSE	ACTION
<ul style="list-style-type: none"> <li>Wipers do not operate. (All switch positions)</li> </ul>	<ul style="list-style-type: none"> <li>No power or ground to Wiper Control Module (WCM).</li> </ul>	<ul style="list-style-type: none"> <li>With Ignition Switch in RUN, check for battery voltage between pin 2 and pin 3 or 5 of the Wiper Control Module, and between circuit 65 and 57 of the Wiper Motor. Service for open fuse or open circuits if voltage is not present.</li> </ul>
	<ul style="list-style-type: none"> <li>Open circuits between wiper motor and WCM.</li> <li>Open circuit between WCM and Multi-function switch.</li> <li>Damaged Multi-function switch.</li> <li>Damaged wiper motor or linkage.</li> <li>Damaged WCM.</li> </ul>	<ul style="list-style-type: none"> <li>With WCM connected, ignition in RUN, and Multi-function Switch turned to HI, check for battery voltage between circuits 61 and 58 of the wiper motor connector.</li> <li>If voltage is present, check for damaged wiper motor or linkage.</li> <li>If no voltage present:               <ol style="list-style-type: none"> <li>Check resistance between circuit 993 and 589 at the WCM connector. If resistance is greater than five ohm, service for open circuit or damaged Multi-function Switch.</li> <li>Check continuity of circuits 61 and 56. If OK, replace WCM.</li> </ol> </li> </ul>
<ul style="list-style-type: none"> <li>LO speed inoperative. (HI speed OK)</li> </ul>	<ul style="list-style-type: none"> <li>Open circuits between wiper motor and WCM.</li> <li>Damaged Multi-function switch.</li> <li>Damaged wiper motor or WCM.</li> </ul>	<ul style="list-style-type: none"> <li>Unplug Wiper Motor connector. With Ignition Switch in RUN and Multi-function Switch at LO, check for battery voltage between circuits 61 and 56.</li> <li>Voltage present: check for damaged wiper motor.</li> <li>No voltage:               <ol style="list-style-type: none"> <li>With Multi-function Switch at LO, check that resistance between circuits 993 &amp; 589 is 3.5K-4.5K ohms. If resistance is out of range, check for damaged multi-function switch. If switch is OK, go to B.</li> <li>Check continuity of circuit 56 between WCM and wiper motor. If OK, replace WCM.</li> </ol> </li> </ul>
<ul style="list-style-type: none"> <li>INT inoperative. (LO &amp; HI speed OK)</li> </ul>	<ul style="list-style-type: none"> <li>Open interval control circuit.</li> <li>Damaged Multi-function switch.</li> <li>Damaged WCM.</li> </ul>	<ul style="list-style-type: none"> <li>Disconnect WCM and check that resistance between circuits 993 and 589 is 10.5K-12K ohms.</li> <li>Resistance OK:               <ol style="list-style-type: none"> <li>Measure resistance between circuits 590 and 993 while rotating INT control from MIN to MAX. If observed resistance is less than 104K ohms, replace WCM. If resistance is greater than 104K ohms, check for open circuits or damaged Multi-function Switch.</li> </ol> </li> <li>Resistance not OK: check for damaged Multi-function Switch or open circuits 993/589.</li> </ul>

# INTERVAL WIPER/WASHER 81-4

1997 F-250 HD/350/SUPER DUTY

## TROUBLESHOOTING HINTS

CONDITION	POSSIBLE CAUSE	ACTION
<ul style="list-style-type: none"> <li>Wipers will not turn off.</li> </ul>	<ul style="list-style-type: none"> <li>Unseated connectors or open circuits.</li> <li>Damaged wiper motor or WCM.</li> <li>Damaged Multi-function switch.</li> </ul>	<ul style="list-style-type: none"> <li>Check that wiper motor and WCM connectors are not unseated. If OK, disconnect wiper motor connector. With ignition in RUN and Multi-function switch at OFF, check continuity between circuits 28 and 56 and between circuits 61 and chassis ground 57.</li> <li>If continuity is OK, check for damaged wiper motor.</li> <li>If no continuity:               <ol style="list-style-type: none"> <li>Check continuity of above circuits between wiper motor and WCM connector. Check for open in circuit 57.</li> <li>With Multi-function switch at OFF, measure resistance between circuits 589 and 993. If resistance is between 45K to 50K ohms, replace WCM. If resistance is out of range, check for open circuits between WCM and Multi-function switch or for damaged switch.</li> </ol> </li> </ul>
<ul style="list-style-type: none"> <li>Wipers will not park.</li> </ul>	<ul style="list-style-type: none"> <li>No power or ground at wiper motor.</li> <li>Damaged wiper motor, wiper linkage or WCM.</li> <li>Damaged Multi-function switch.</li> </ul>	<ul style="list-style-type: none"> <li>Turn Ignition Switch to RUN and Multi-function switch to OFF; disconnect wiper motor connectors. Check for battery voltage at circuit 65 and ground at circuits 57 and 61 at the motor connector. Service for open circuit if voltage and ground are not present.</li> <li>Check continuity between circuits 28 and 56 as in case where wipers will not turn OFF. Service circuits, wiper motor, WCM, or Multi-function switch as required.</li> </ul>
<ul style="list-style-type: none"> <li>Windshield washer not operative; wipers operate when washer switch is depressed. (Fluid level OK)</li> </ul>	<ul style="list-style-type: none"> <li>No power or ground at washer pump motor.</li> <li>Damaged washer pump motor, WCM or Multi-function switch.</li> </ul>	<ul style="list-style-type: none"> <li>With ignition in RUN, depress washer switch and check for battery voltage between circuits 941 and 57 of the washer pump motor.</li> <li>If voltage is present check for damaged washer pump motor.</li> <li>If no voltage:               <ol style="list-style-type: none"> <li>While pressing the washer switch, check for continuity between circuits 993 and 590. If resistance is greater than 5 ohms, service for open circuit or damaged Multi-function switch.</li> <li>Check continuity of circuit 941 between the washer pump and WCM. Also check ground connection to washer pump. If OK then replace WCM.</li> </ol> </li> </ul>

# 85-1 HEADLAMPS

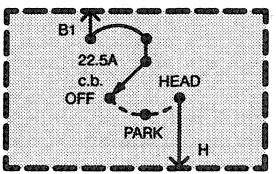
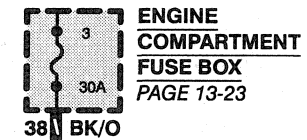
1997 F-250 HD/350/SUPER DUTY

For diagnostic information, refer to section 17-01 of the Service Manual.

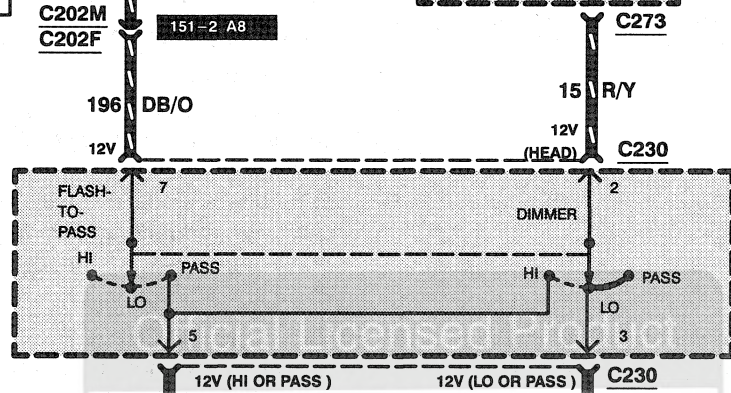
SEE POWER DISTRIBUTION PAGE 13-24

HOT AT ALL TIMES

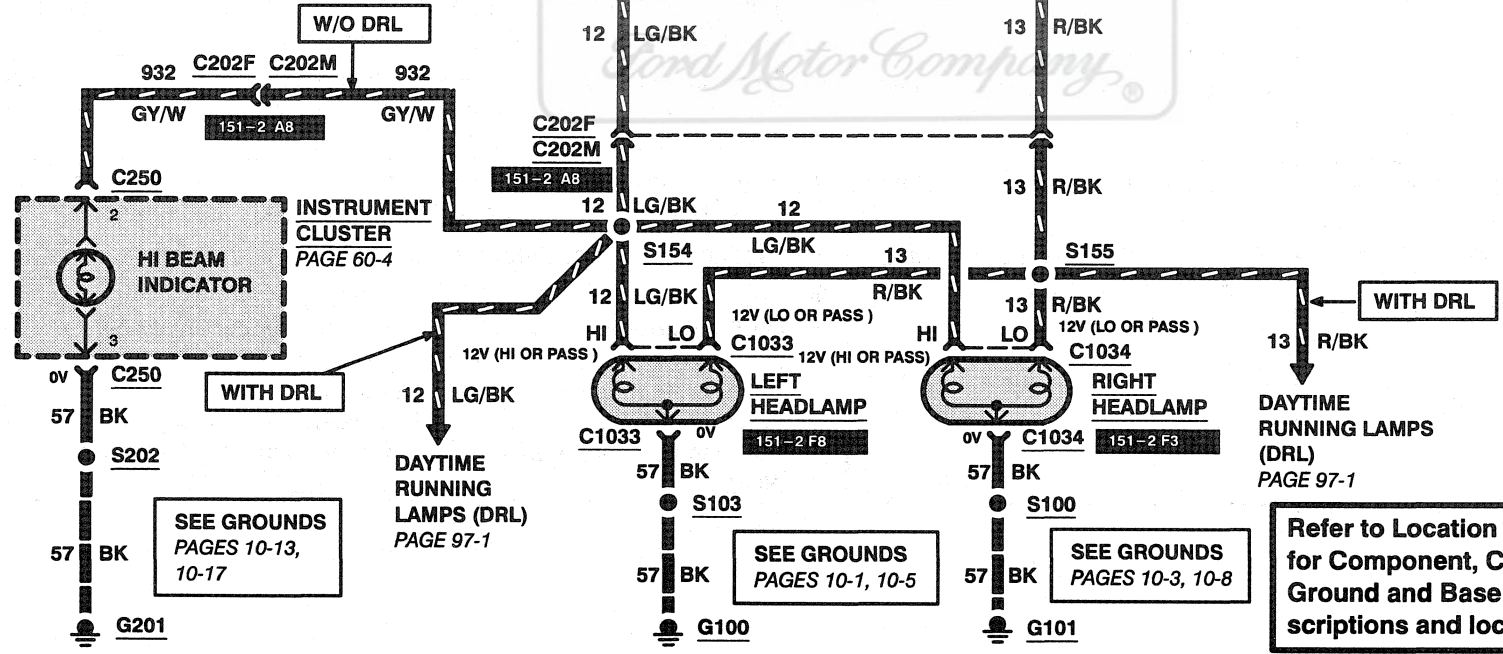
HOT AT ALL TIMES



Allows current flow to Dimmer/Flash to Pass Switch when switch is in HEAD position.



Allows driver to select HI beam, LO beam or Flash to Pass functions.





# HEADLAMPS 85-2

1997 F-250 HD/350/SUPER DUTY

## CELL 85 CONNECTOR REFERENCE LIST

CONNECTOR	SECTION-PAGE
C230	90-5
C250	60-9

Official Licensed Product

*Ford Motor Company*

# 89-1 COURTESY LAMPS

1997 F-250 HD/350/SUPER DUTY

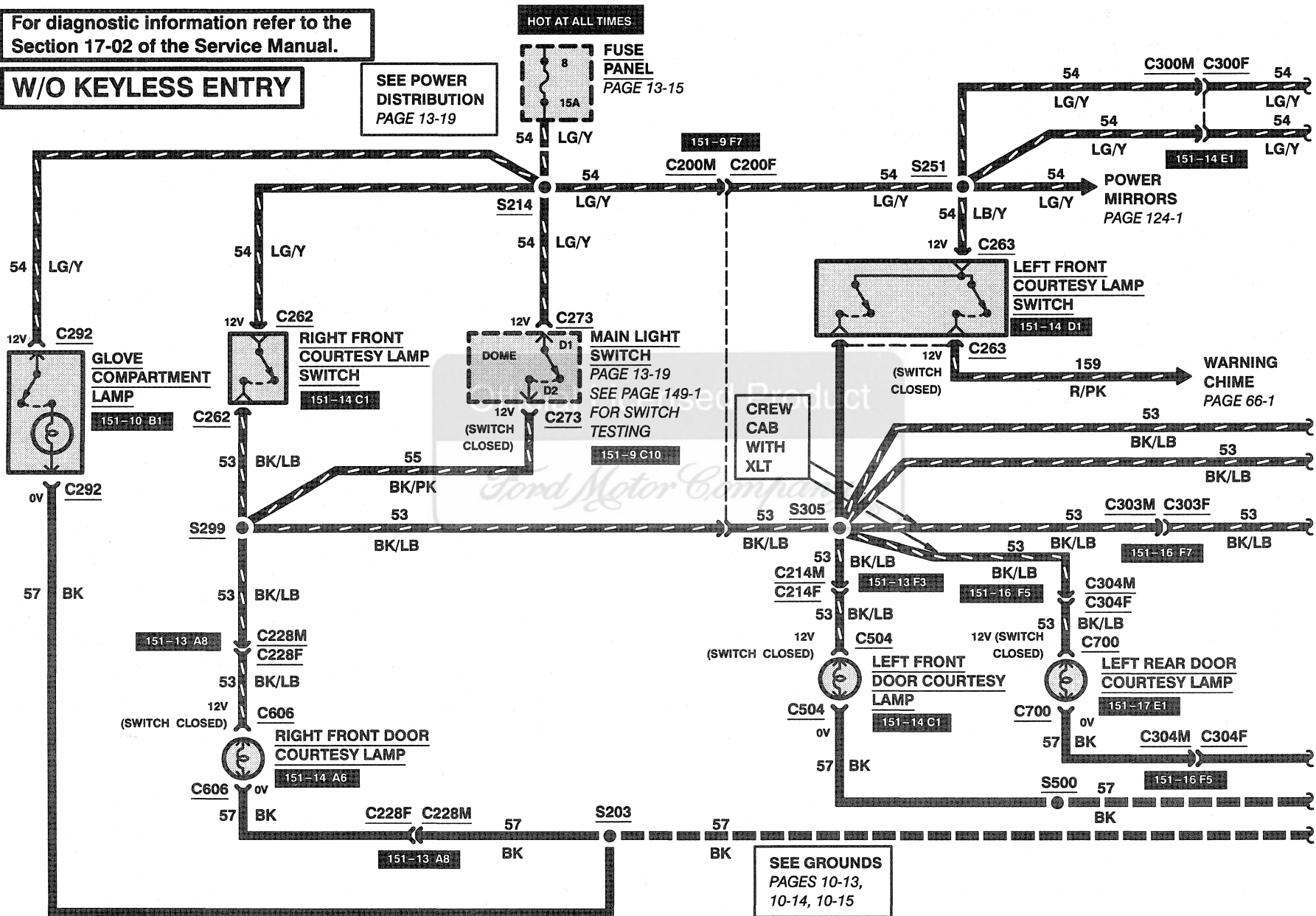
For diagnostic information refer to the Section 17-02 of the Service Manual.

W/O KEYLESS ENTRY

SEE POWER DISTRIBUTION PAGE 13-19

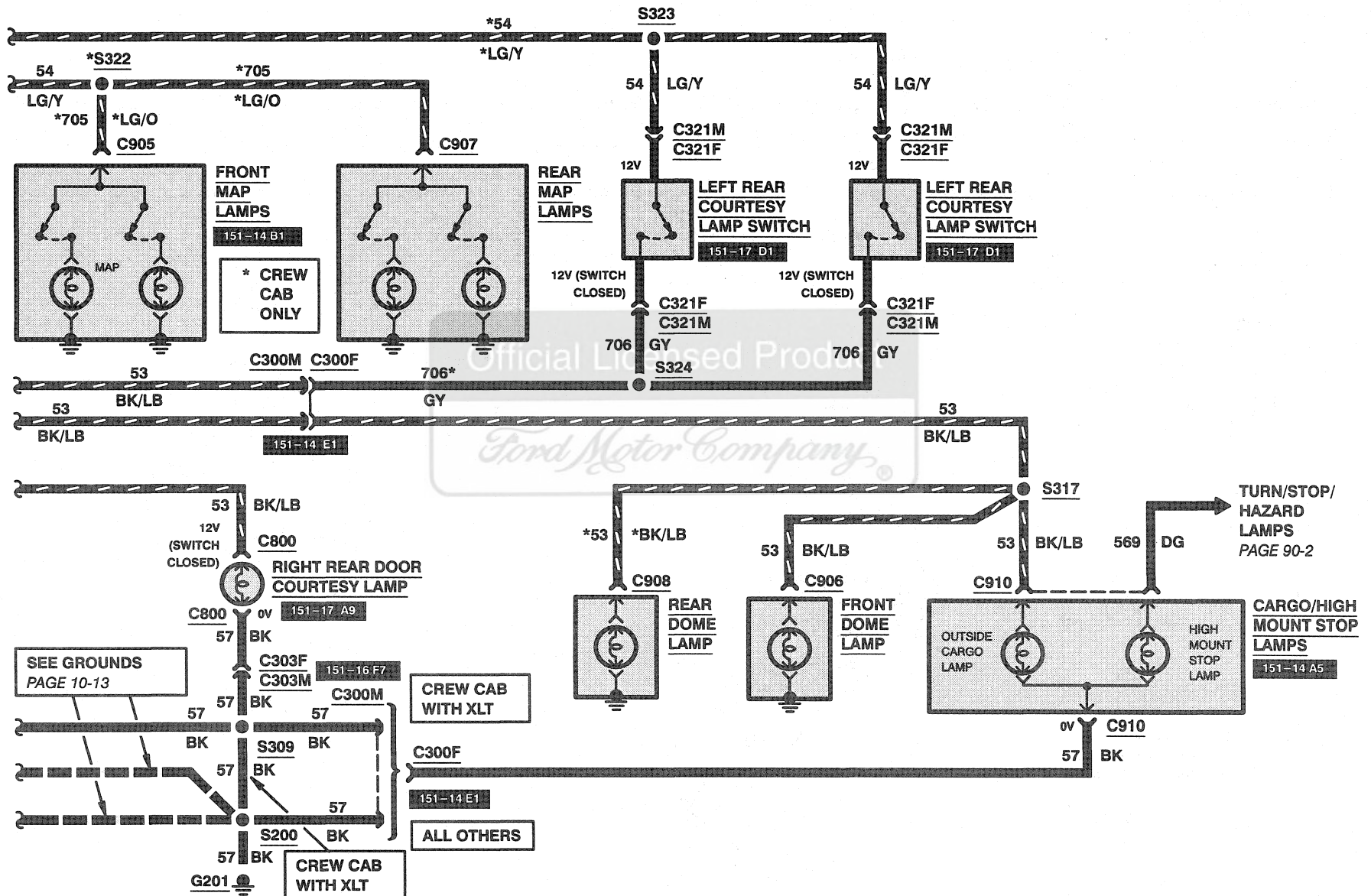
HOT AT ALL TIMES

FUSE PANEL PAGE 13-15



# COURTESY LAMPS 89-2

1997 F-250 HD/350/SUPER DUTY

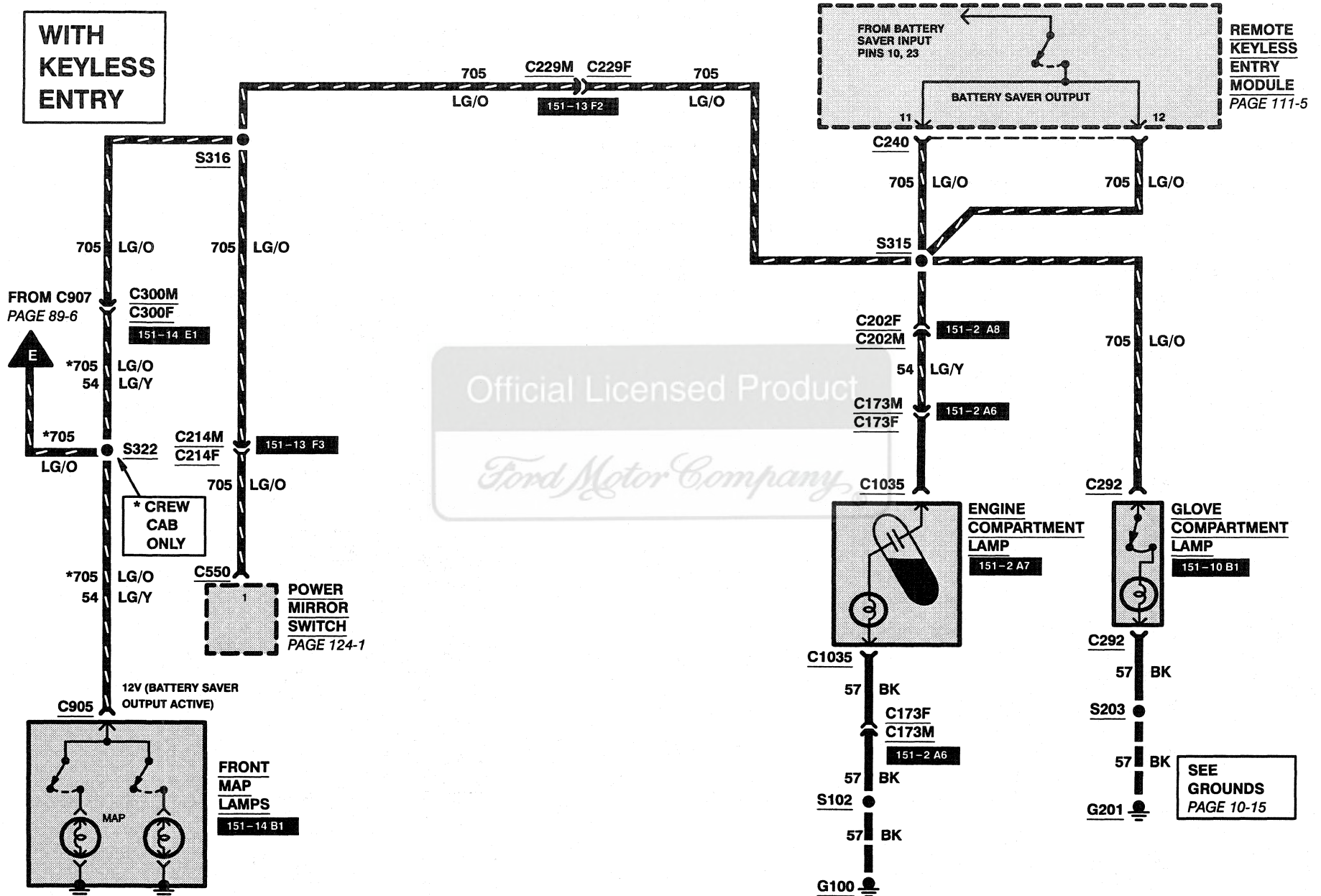






# 89-5 COURTESY LAMPS

1997 F-250 HD/350/SUPER DUTY





# 89-7 COURTESY LAMPS

1997 F-250 HD/350/SUPER DUTY

## CELL 89 CONNECTOR REFERENCE LIST

CONNECTOR	SECTION-PAGE
C252	60-8
C240	111-7
C242	111-7
C241	111-8

Official Licensed Product

*Ford Motor Company*



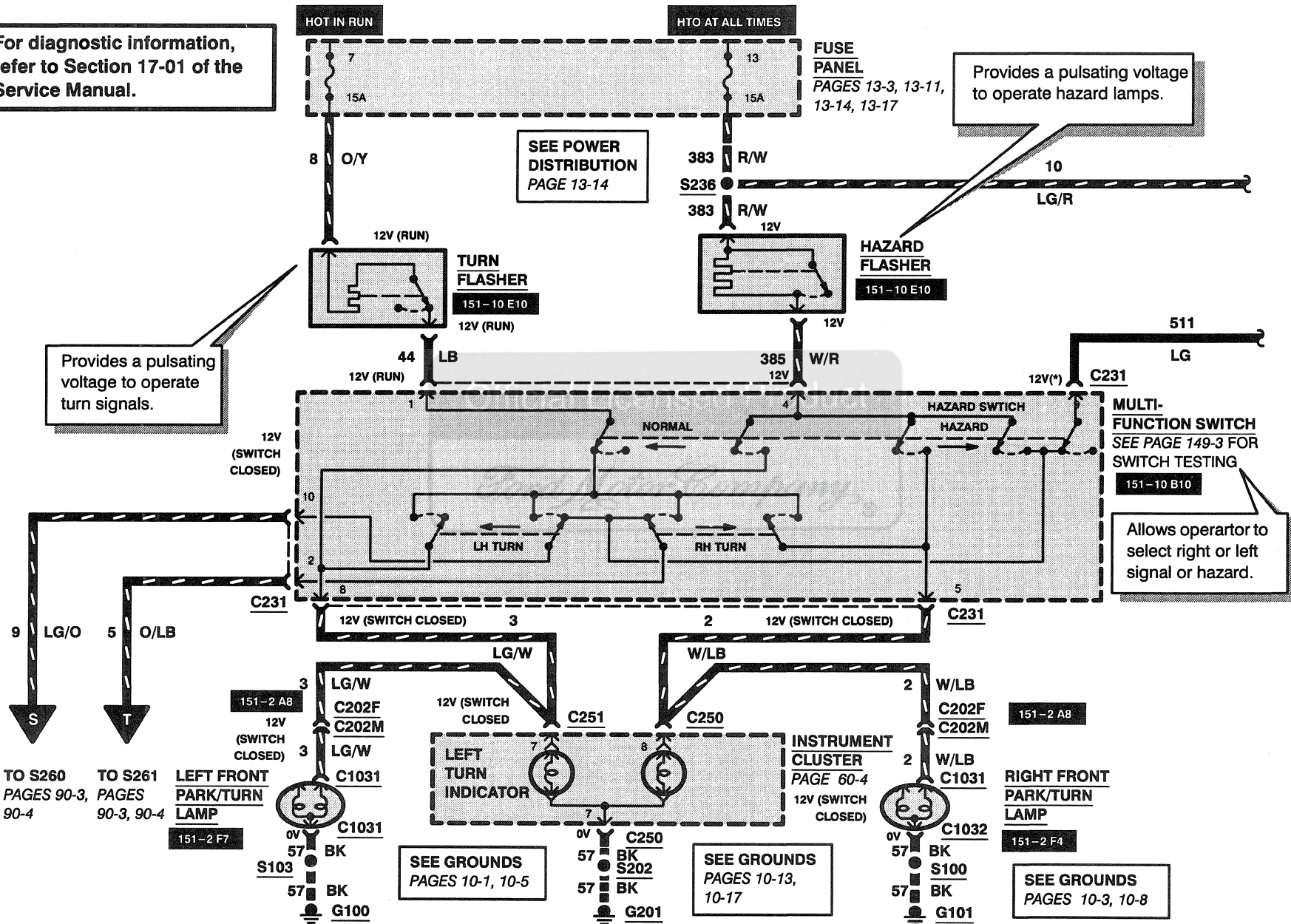
Official Licensed Product

*Ford Motor Company*

# 90-1 TURN/STOP/HAZARD LAMPS

1997 F-250 HD/350/SUPER DUTY

For diagnostic information, refer to Section 17-01 of the Service Manual.



Provides a pulsating voltage to operate turn signals.

Provides a pulsating voltage to operate hazard lamps.

Allows operator to select right or left signal or hazard.

SEE GROUNDS PAGES 10-1, 10-5

SEE GROUNDS PAGES 10-13, 10-17

SEE GROUNDS PAGES 10-3, 10-8

FUSE PANEL PAGES 13-3, 13-11, 13-14, 13-17

SEE POWER DISTRIBUTION PAGE 13-14

TO S260 PAGES 90-3, 90-4  
TO S261 PAGES 90-3, 90-4

LEFT FRONT PARK/TURN LAMP 151-2 F7

RIGHT FRONT PARK/TURN LAMP 151-2 F4

LEFT TURN INDICATOR

RIGHT TURN INDICATOR

INSTRUMENT CLUSTER PAGE 60-4

MULTI-FUNCTION SWITCH SEE PAGE 149-3 FOR SWITCH TESTING 151-10 B10

TURN FLASHER 151-10 E10

HAZARD FLASHER 151-10 E10

151-2 A8 12V (SWITCH CLOSED) C202F C202M C1031

151-2 A8

0V 57 BK S103 57 BK G100

0V 57 BK S202 57 BK G201

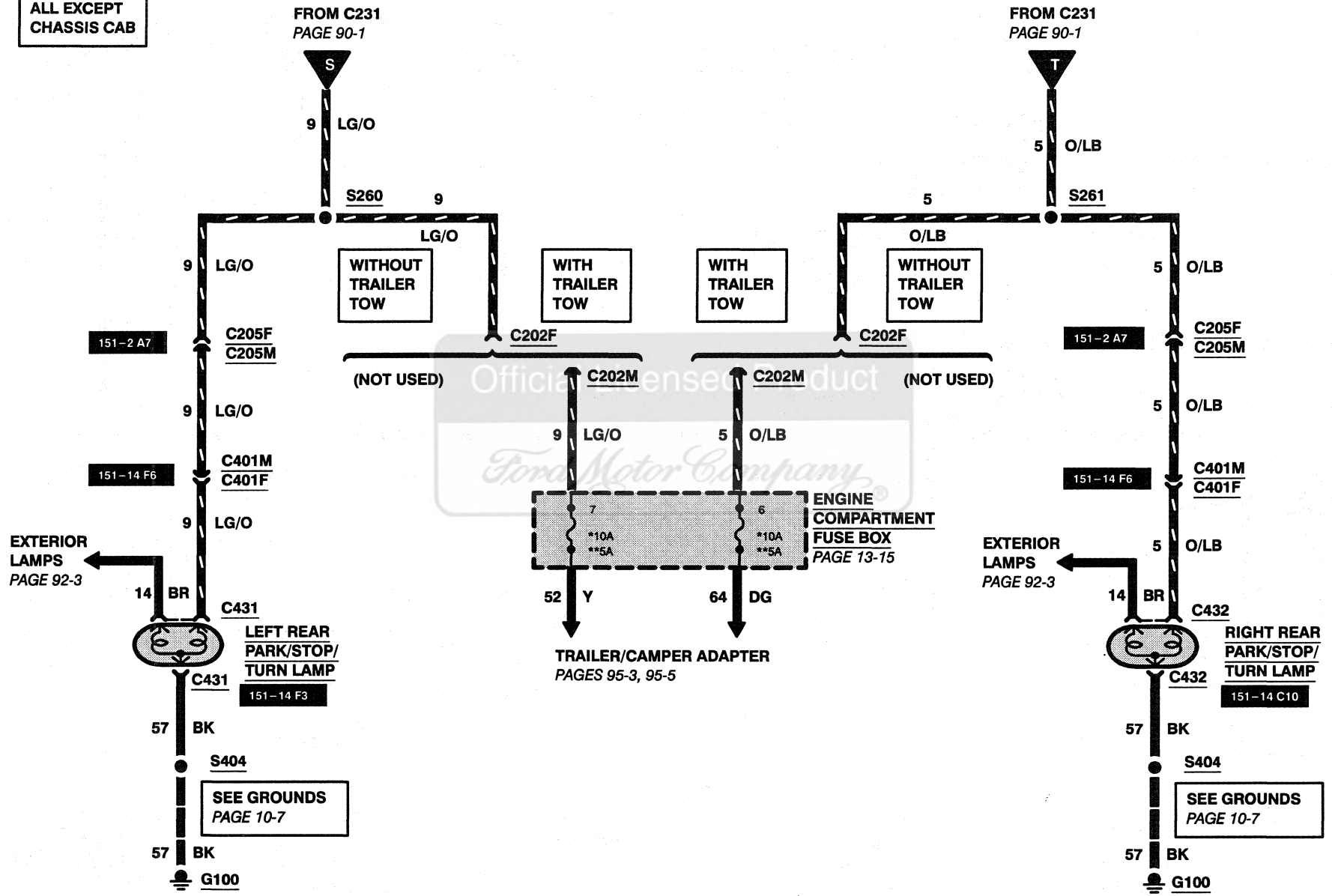
0V 57 BK S100 57 BK G101



# 90-3 TURN/STOP/HAZARD LAMPS

1997 F-250 HD/350/SUPER DUTY

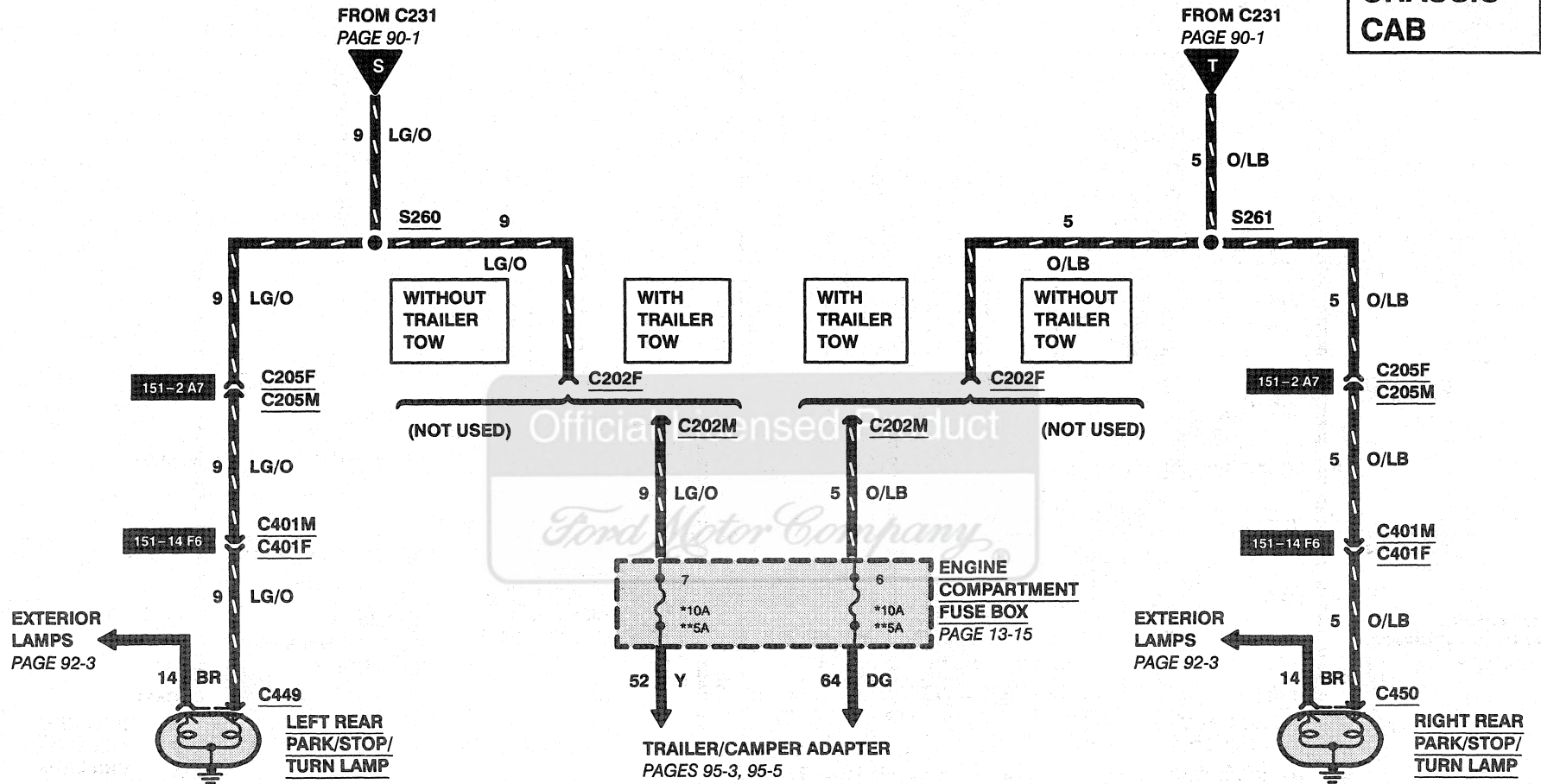
ALL EXCEPT  
CHASSIS CAB



# TURN/STOP/HAZARD LAMPS 90-4

1997 F-250 HD/350/SUPER DUTY

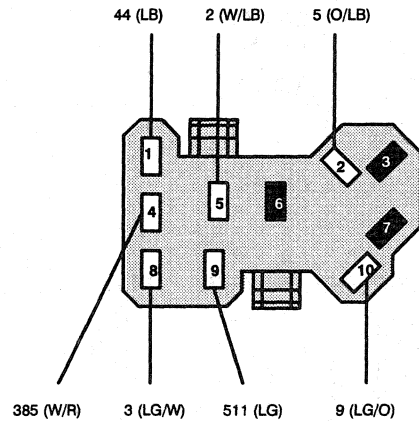
**CHASSIS CAB**



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

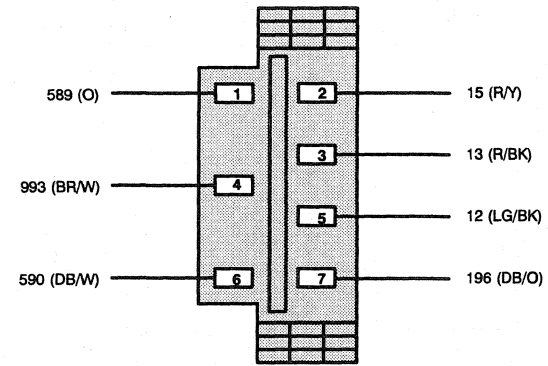
# 90-5 TURN/STOP/HAZARD LAMPS

1997 F-250 HD/350/SUPER DUTY



**C231 (GRAY)**  
**MULTI-FUNCTION SWITCH**

PIN	CIRCUIT	CIRCUIT FUNCTION
1	44 (LB)	Turn Signal Flasher To Turn Signal Switch
2	5 (O/LB)	Right Rear Turn Signal Lamp
3	—	NOT USED
4	385 (W/R)	Hazard Flasher
5	2 (W/LB)	Right Front Turn Signal Lamp
6	—	NOT USED
7	—	NOT USED
8	3 (LG/W)	Left Front Turn Signal Lamp
9	511 (LG)	Brake ON/OFF (BOO) Switch
10	9 (LG/O)	Left Right Turn Signal Lamp



**C230**  
**MULTI-FUNCTION SWITCH**

PIN	CIRCUIT	CIRCUIT FUNCTION
1	589 (O)	Windshield Wiper Intermittent Governor Ground
2	15 (R/Y)	Dimmer Switch Feed Headlamp
3	13 (R/BK)	Low Beams
4	993 (BR/W)	Intermittent Governor To Windshield Wiper Switch
5	12 (LG/BK)	High Beams
6	590 (DB/W)	Intermittent Governor to Windshield Wiper Switch
7	196 (DB/O)	Flash To Pass Feed

# TURN/STOP/HAZARD LAMPS 90-6

1997 F-250 HD/350/SUPER DUTY

## CELL 90 CONNECTOR REFERENCE LIST

CONNECTOR	SECTION-PAGE
C185	26-9
C202	150-6
C250	60-9
C251	60-9
C277	42-3
C1027	27-11
C1027	28-13
C1027	28-15

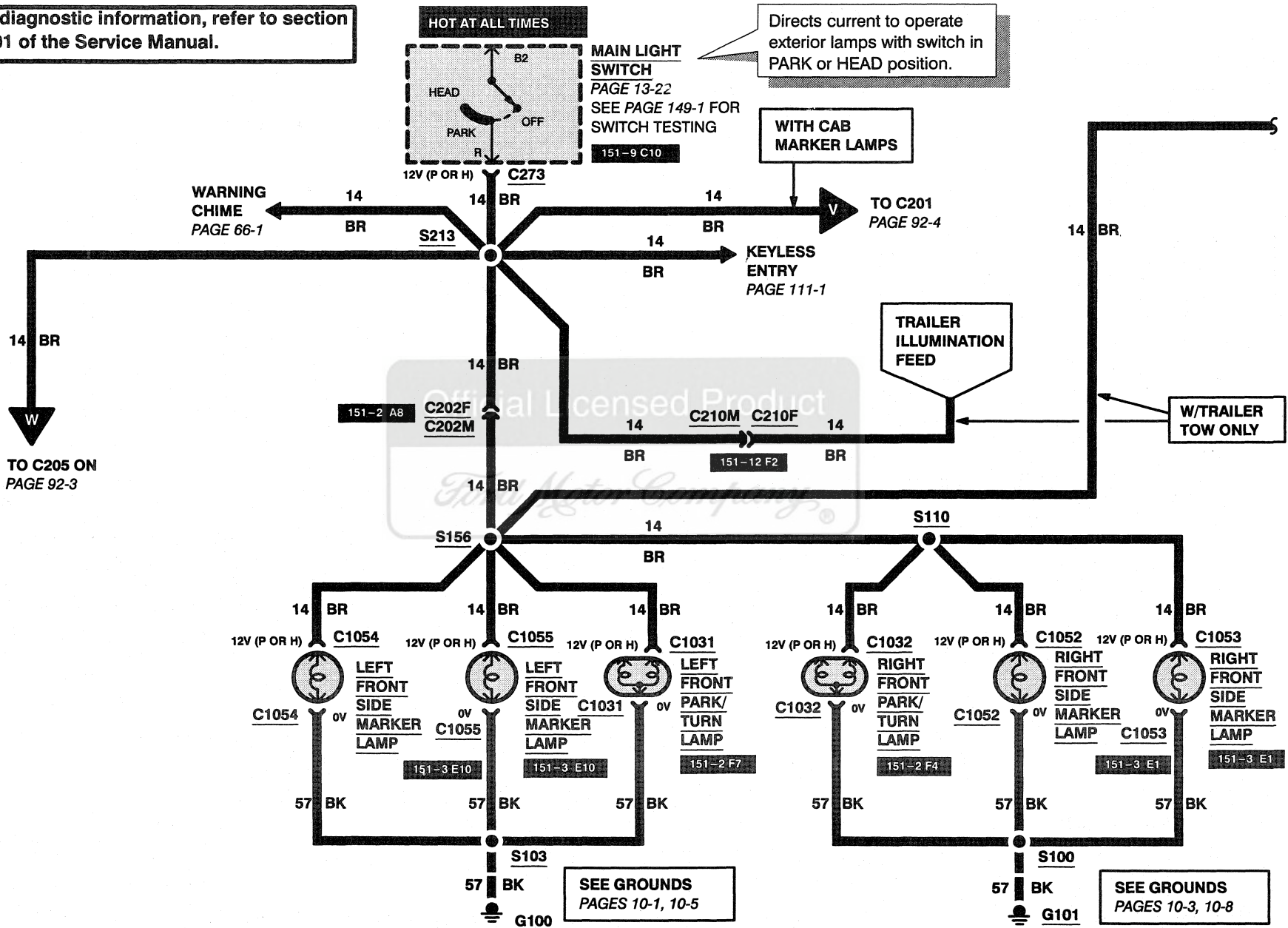
Official Licensed Product

*Ford Motor Company*®

# 92-1 EXTERIOR LAMPS

1997 F-250 HD/350/SUPER DUTY

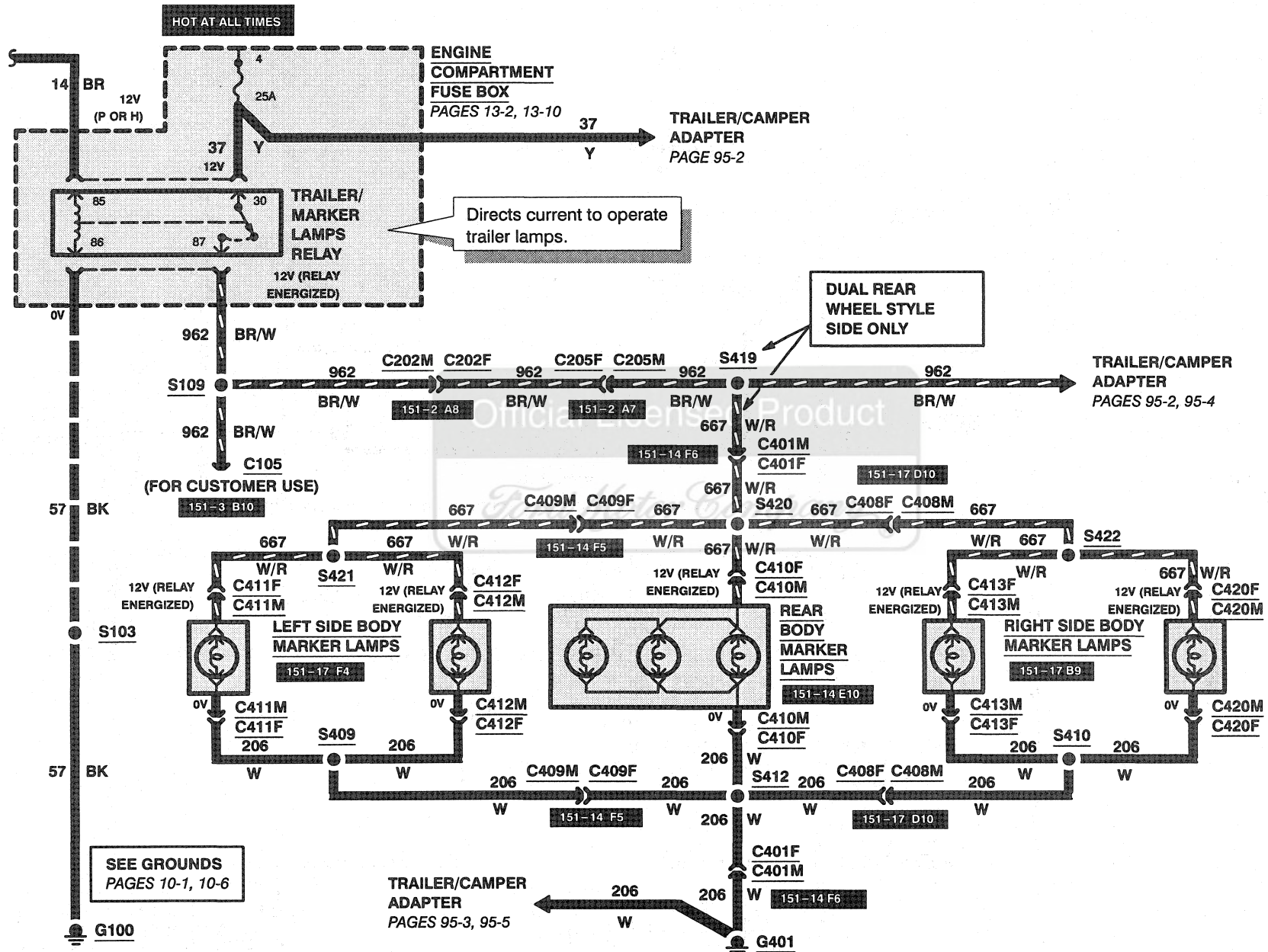
For diagnostic information, refer to section 17-01 of the Service Manual.





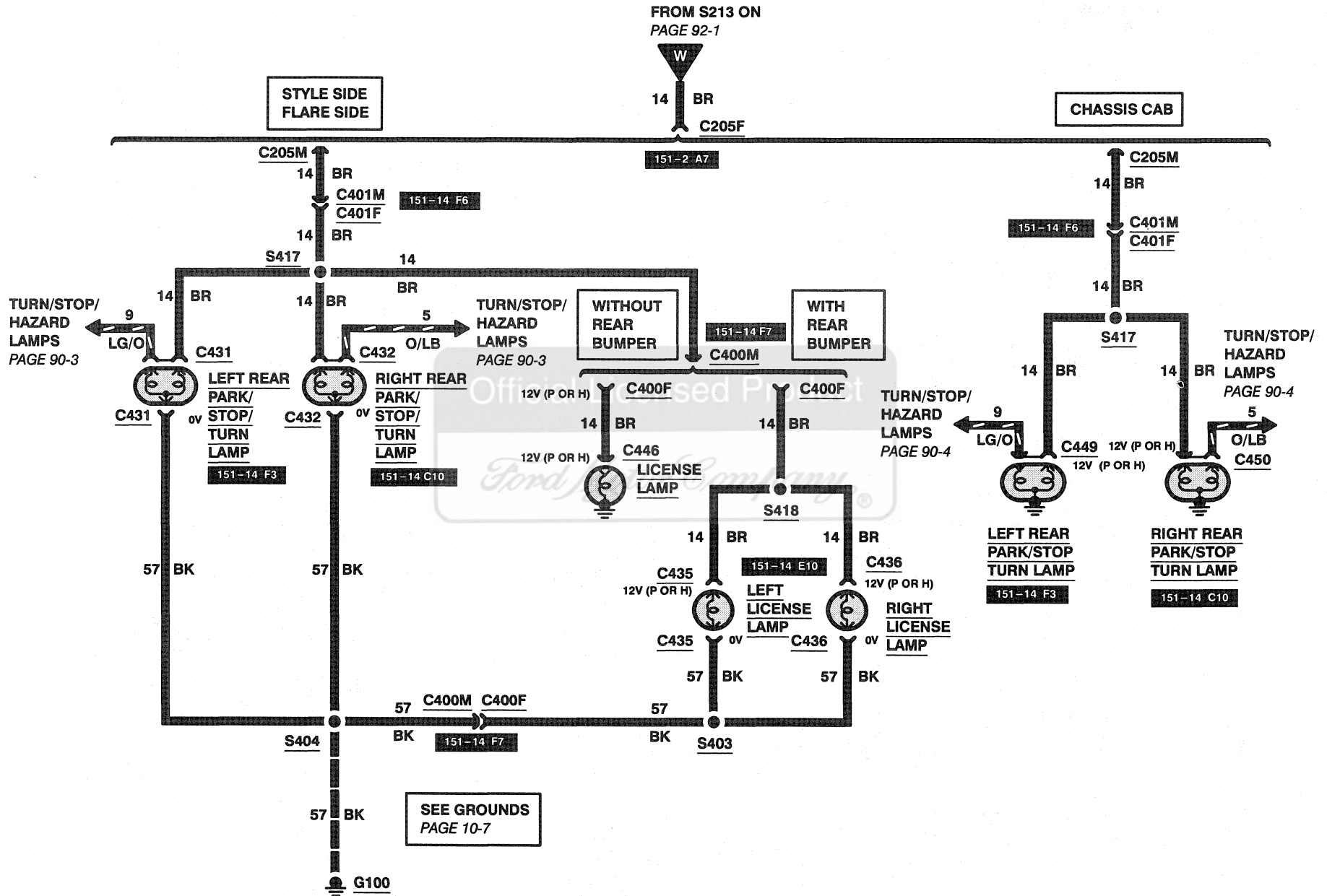
# EXTERIOR LAMPS 92-2

1997 F-250 HD/350/SUPER DUTY



# 92-3 EXTERIOR LAMPS

1997 F-250 HD/350/SUPER DUTY

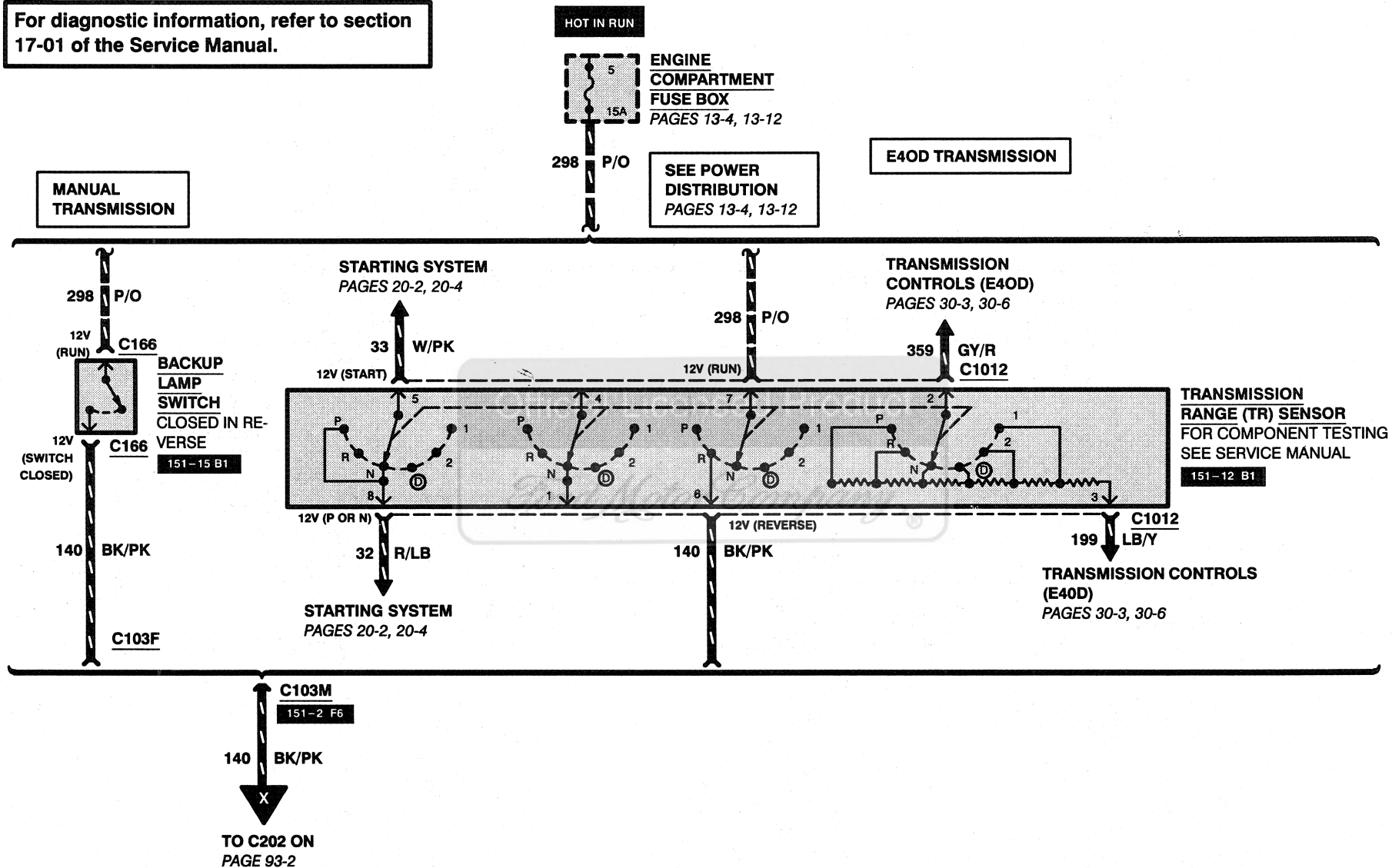




# 93-1 BACKUP LAMPS

1997 F-250 HD/350/SUPER DUTY

For diagnostic information, refer to section 17-01 of the Service Manual.

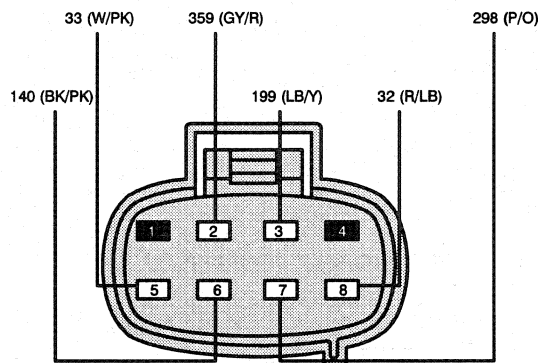




# 93-3 BACKUP LAMPS

1997 F-250 HD/350/SUPER DUTY

FOR TR SENSOR DIAGNOSIS REFER TO SECTION 07-01 IN THE SERVICE MANUAL



**C1012 (BLACK)  
TRANSMISSION RANGE (TR) SENSOR  
(W/E4OD TRANSMISSION)**

PIN	CIRCUIT	CIRCUIT FUNCTION
1	—	NOT USED
2	359 (GY/R)	Signal Return
3	199 (LB/Y)	Transmission Range (TR) Position Output
4	—	NOT USED
5	33 (W/PK)	Start Circuit
6	140 (BK/PK)	Backup Lamps Feed
7	298 (P/O)	Hot in Run
8	32 (R/LB)	Start Circuit to Interlock Module

# NOTES 93-4

1997 F-250 HD/350/SUPER DUTY

Official Licensed Product

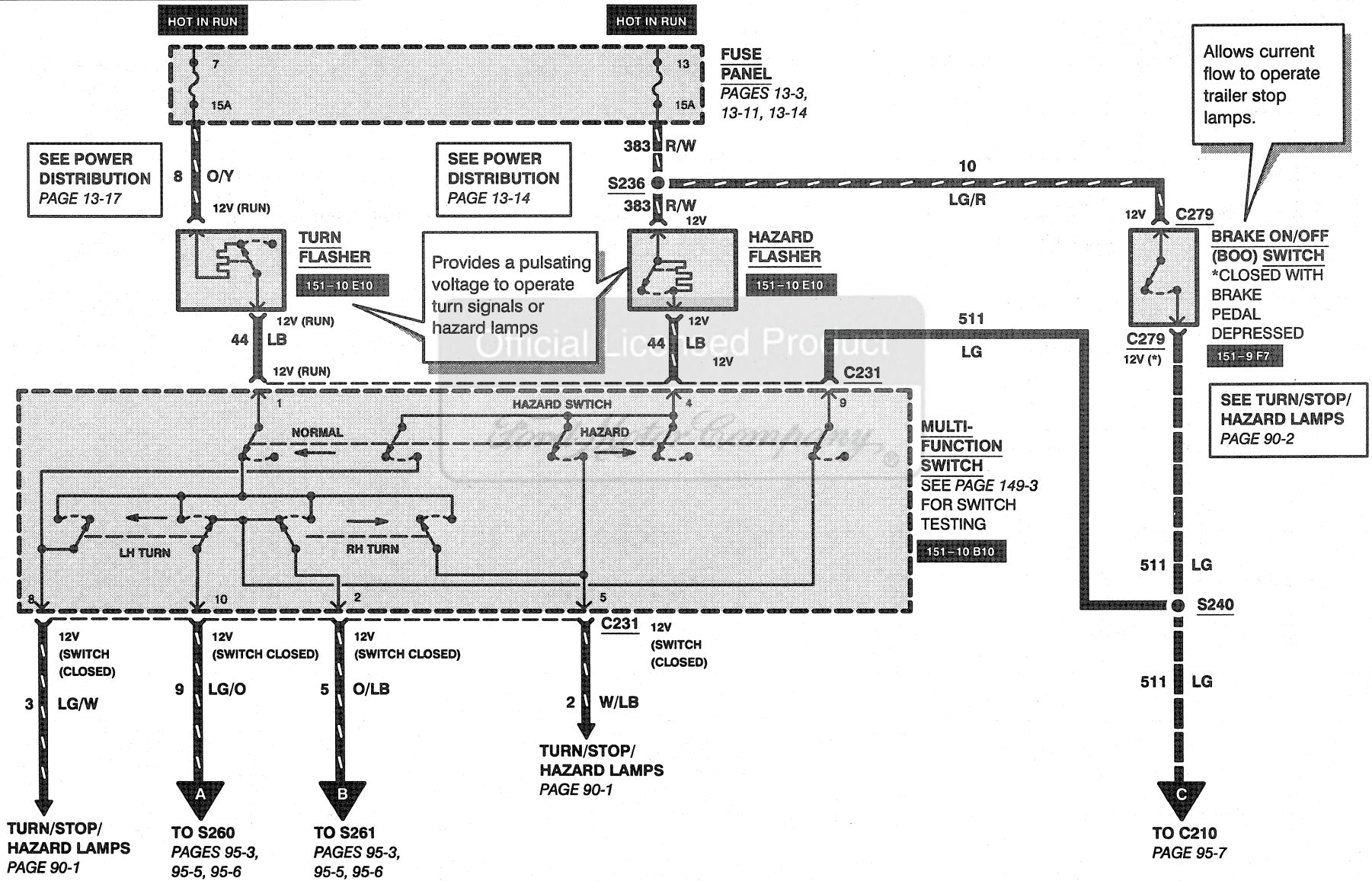
*Ford Motor Company*

# 95-1 TRAILER/CAMPER ADAPTER

1997 F-250 HD/350/SUPER DUTY

For diagnostic information, refer to Section 02-04 of the Service Manual.

NOTE: BE SURE THAT TRAILER ADAPTER IS A "FACTORY OPTION" UNIT BEFORE USING THIS SECTION.





# TRAILER/CAMPER ADAPTER 95-2

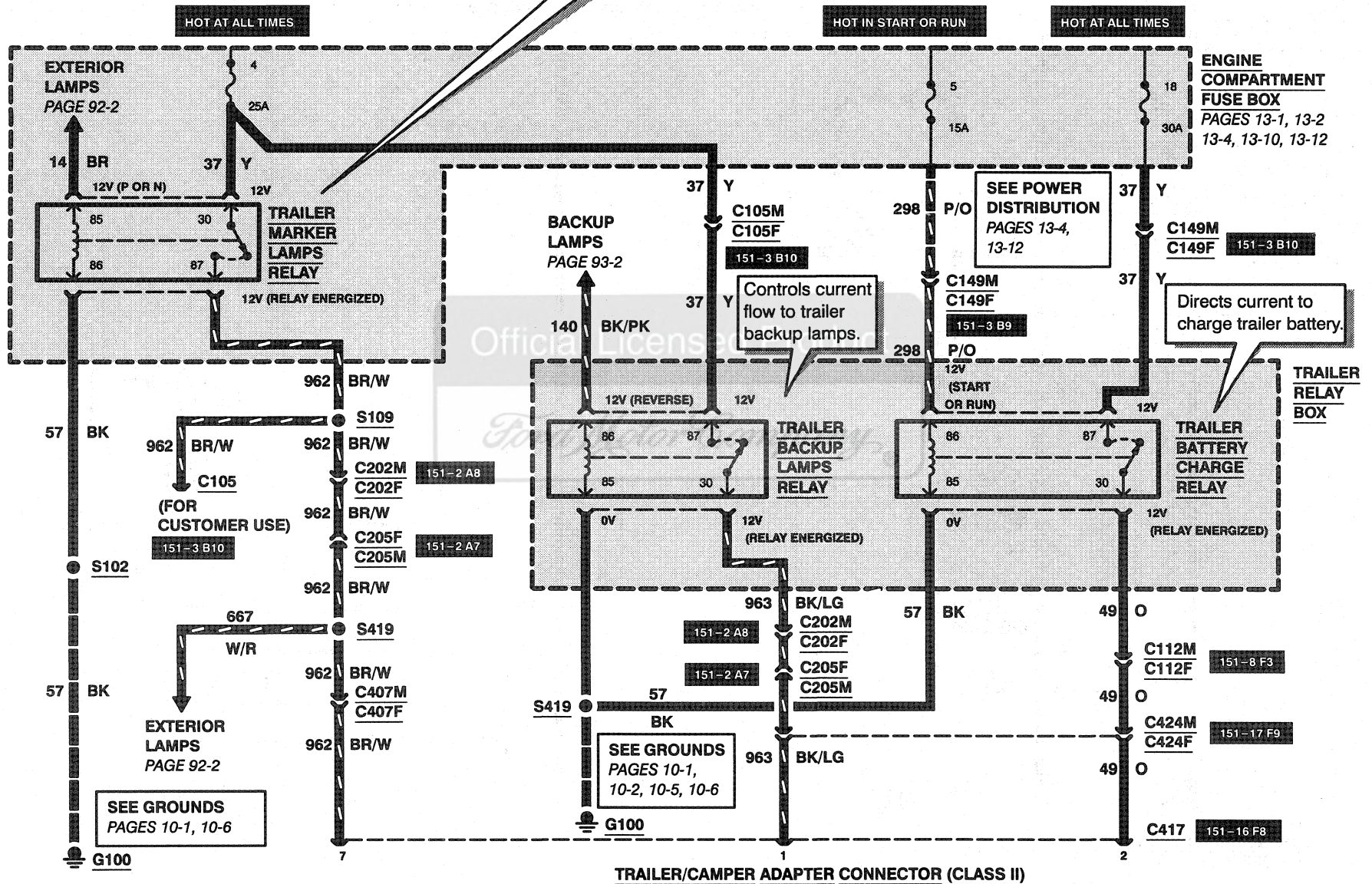
1997 F-250 HD/350/SUPER DUTY

For diagnostic information, refer to Section 02-04 of the Service Manual.

Directs current to operate Trailer Lamps.

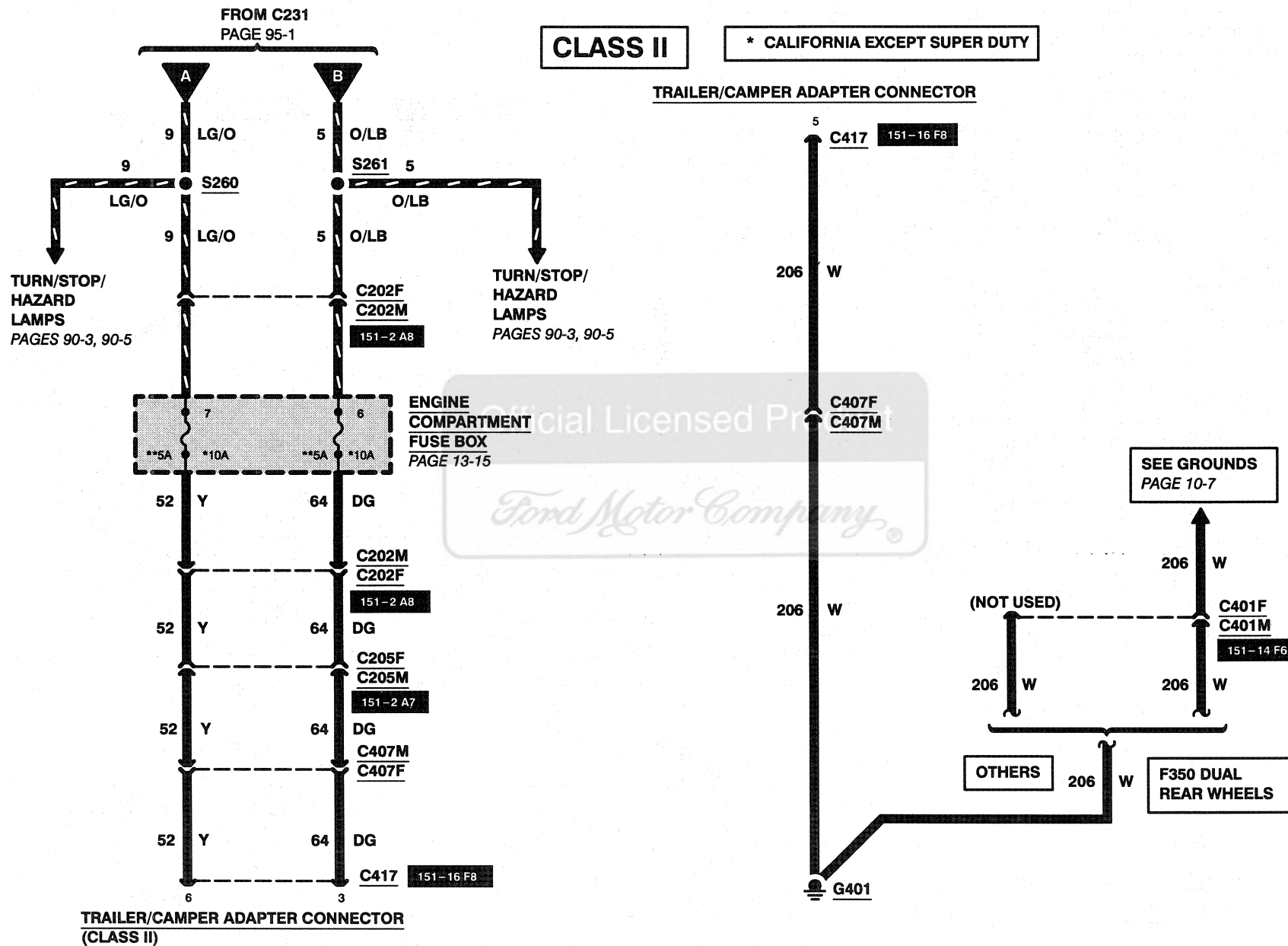
**CLASS II**

NOTE: BE SURE THAT TRAILER ADAPTER IS A "FACTORY OPTION" UNIT BEFORE USING THIS SECTION.



# 95-3 TRAILER/CAMPER ADAPTER

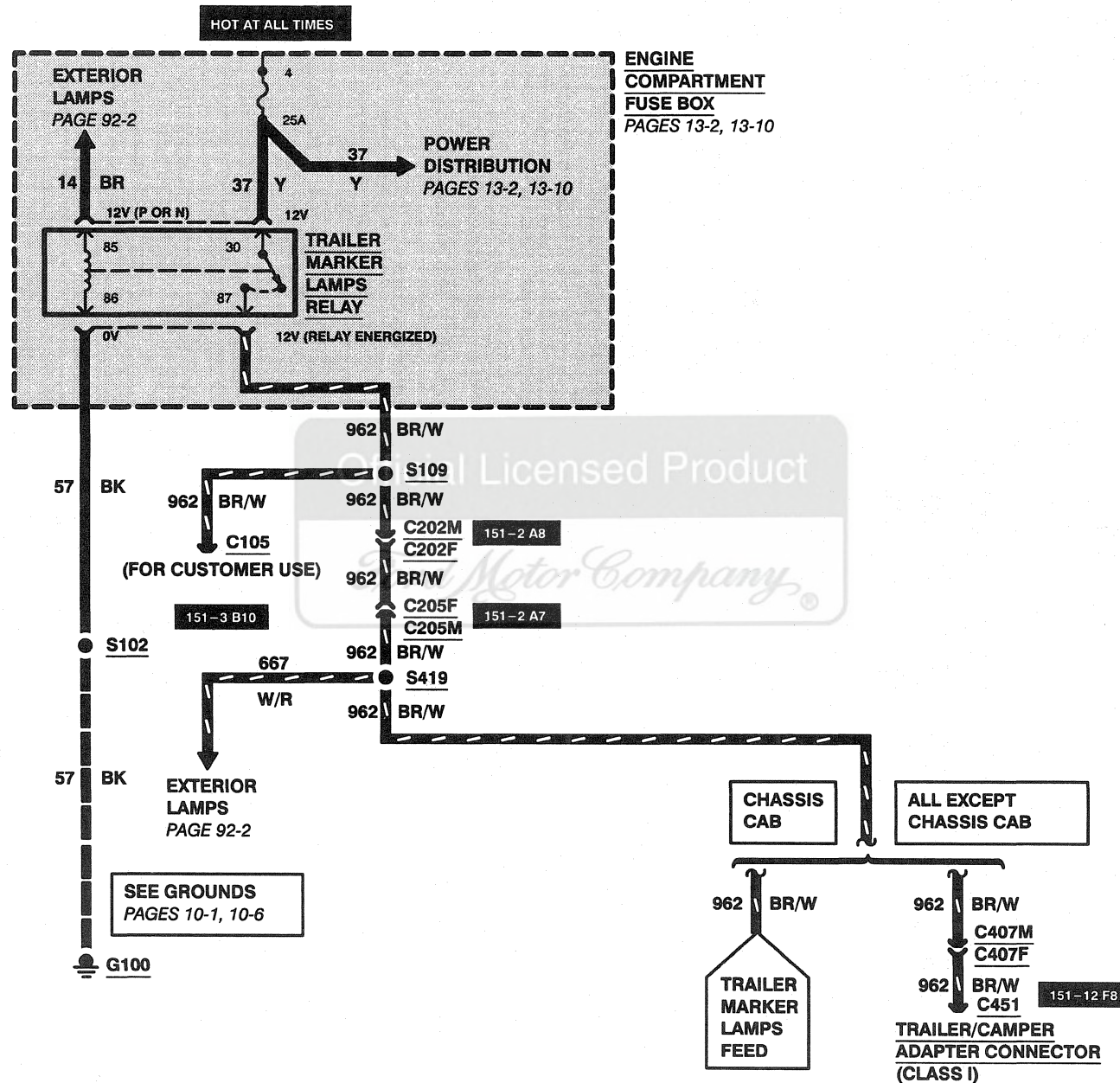
1997 F-250 HD/350/SUPER DUTY



# TRAILER/CAMPER ADAPTER 95-4

1997 F-250 HD/350/SUPER DUTY

**CLASS I**

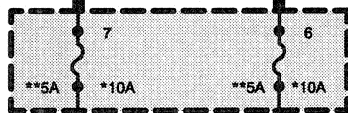
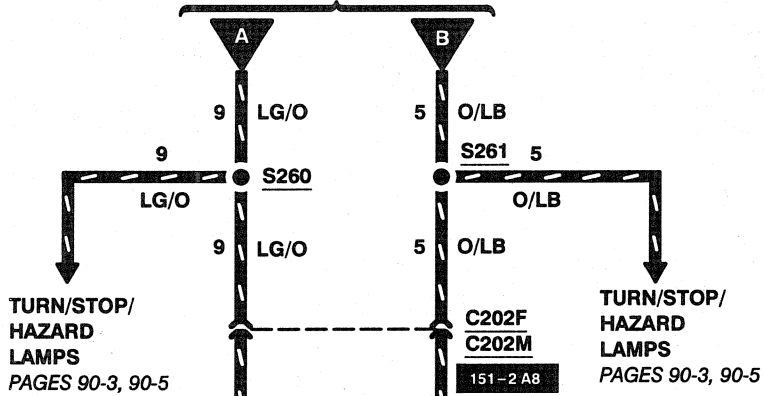


# 95-5 TRAILER/CAMPER ADAPTER

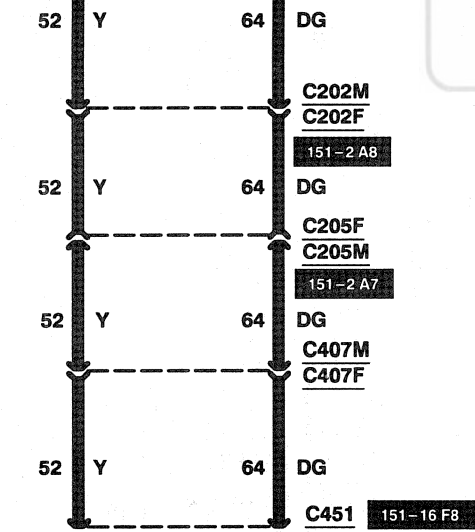
1997 F-250 HD/350/SUPER DUTY

FROM C231  
PAGE 95-1

**CLASS I  
ALL EXCEPT  
CHASSIS CAB**

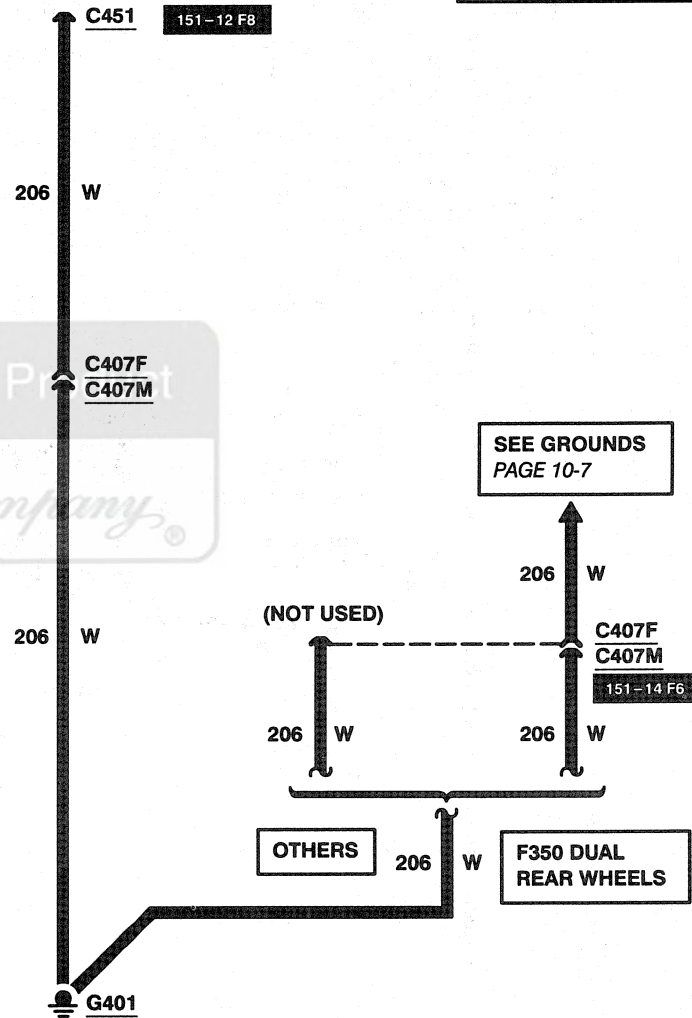


ENGINE COMPARTMENT  
FUSE BOX  
PAGE 13-15



TRAILER/CAMPER ADAPTER CONNECTOR  
(CLASS I)

TRAILER/CAMPER ADAPTER CONNECTOR  
(CLASS I)

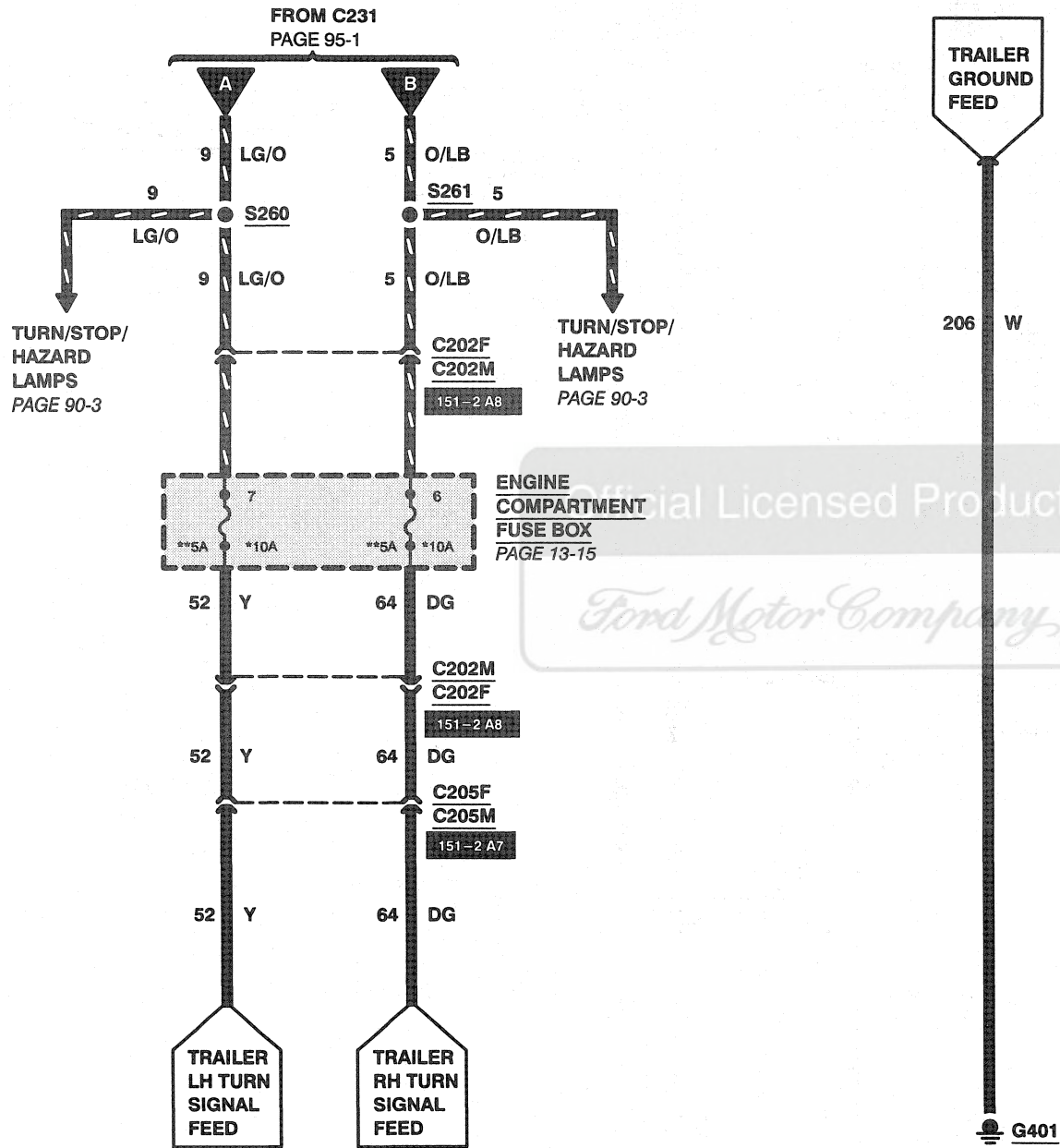


SEE GROUNDS  
PAGE 10-7



# TRAILER/CAMPER ADAPTER 95-6

1997 F-250 HD/350/SUPER DUTY



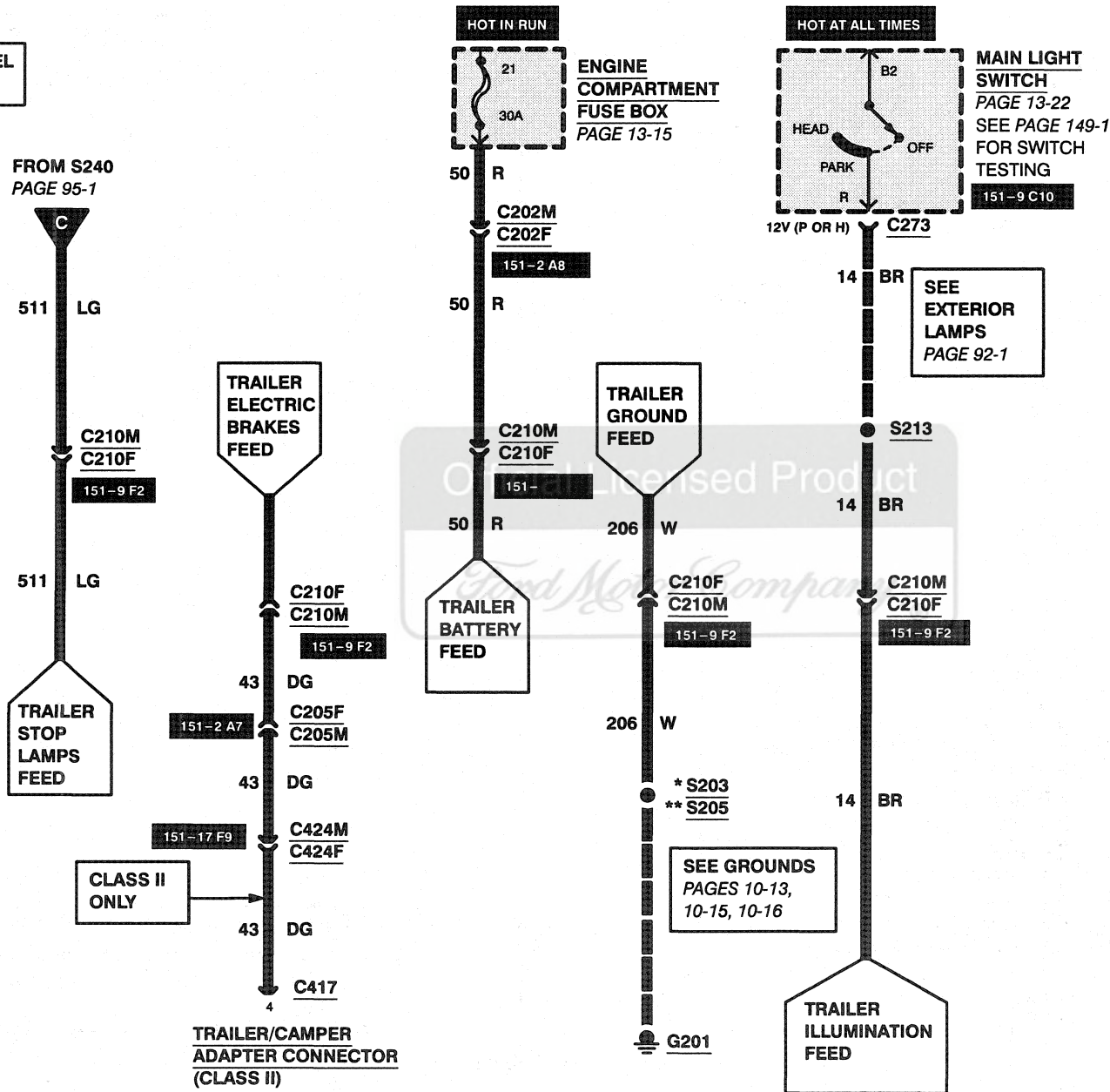
**CLASS I  
CHASSIS CAB**

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

# 95-7 TRAILER/CAMPER ADAPTER

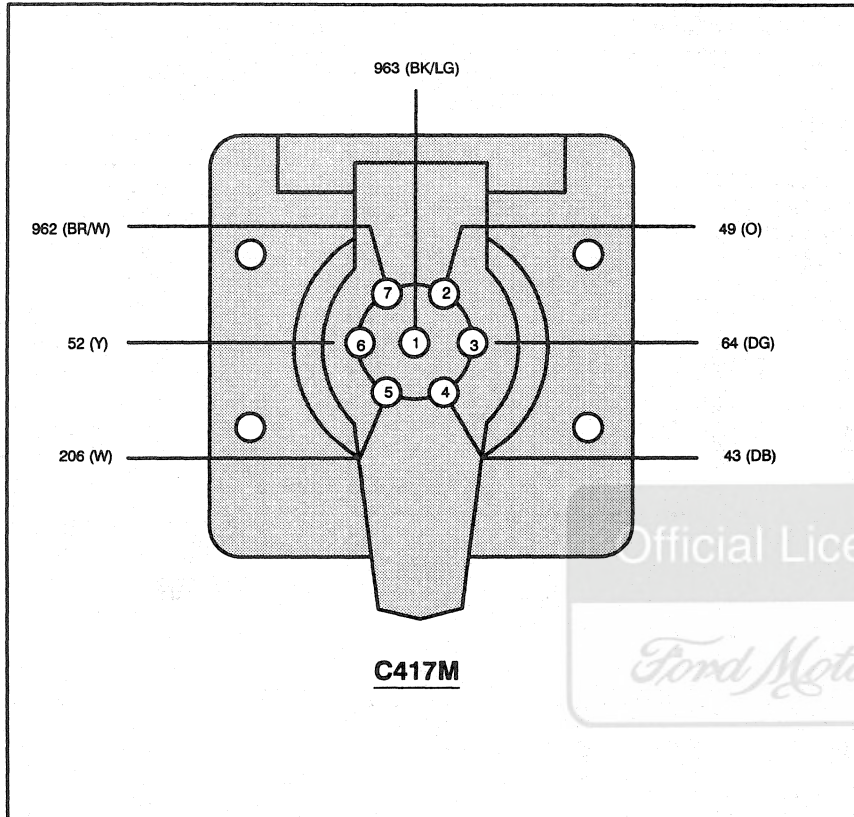
1997 F-250 HD/350/SUPER DUTY

\* DIESEL  
\*\* GAS



# TRAILER/CAMPER ADAPTER 95-8

1997 F-250 HD/350/SUPER DUTY



## CELL 97 CONNECTOR REFERENCE LIST

CONNECTOR	SECTION-PAGE
C202	150-6
C205	150-9



PIN	CIRCUIT	CIRCUIT FUNCTION
1	963 (BK/LG)	Trailer Backup Lamps
2	49 (O)	Trailer Battery Charge
3	64 (DG)	Trailer RH Turn Signal
4	43 (DB)	Trailers Brakes
5	206 (W)	Trailers Ground
6	52 (Y)	Trailer LH Turn Signal
7	962 (BR/W)	Trailer Running Lamps

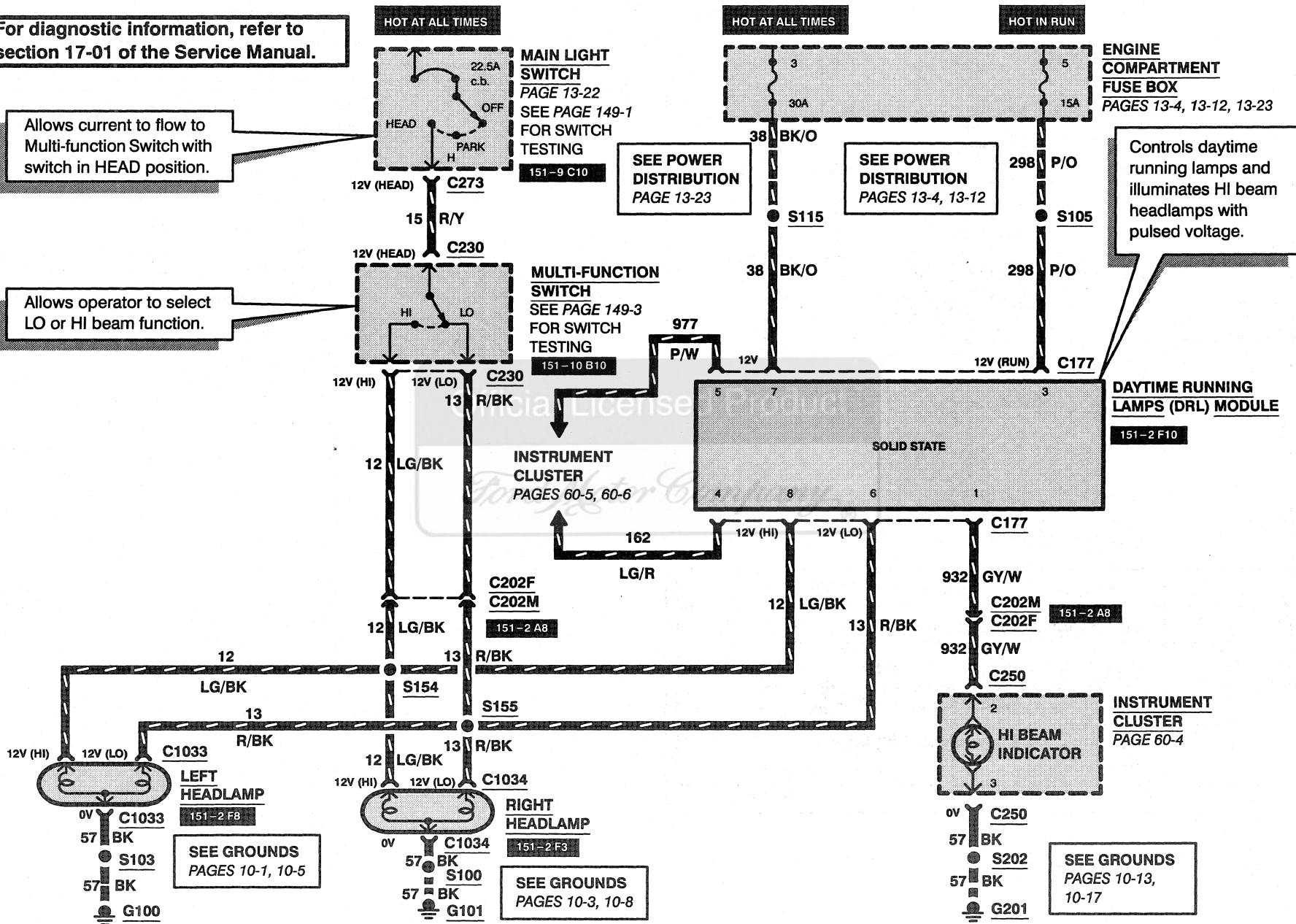
# 97-1 DAYTIME RUNNING LAMPS (DRL)

1997 F-250 HD/350/SUPER DUTY

For diagnostic information, refer to section 17-01 of the Service Manual.

Allows current to flow to Multi-function Switch with switch in HEAD position.

Allows operator to select LO or HI beam function.



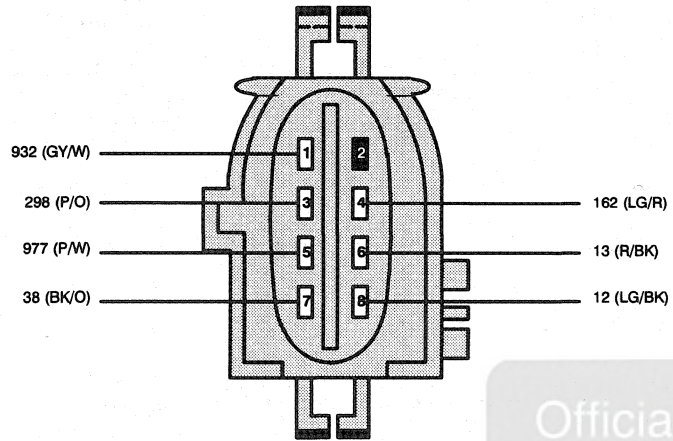


# DAYTIME RUNNING LAMPS (DRL) 97-2

1997 F-250 HD/350/SUPER DUTY

## CELL 97 CONNECTOR REFERENCE LIST

CONNECTOR	SECTION-PAGE
C202	150-6
C230	90-5
C250	60-9
C251	60-9
C269	13-24
C273	13-24
C1027	28-13
C1027	28-15



**C177 (BLACK)**

**DAYTIME RUNNING LAMPS (DRL) MODULE**

PIN	CIRCUIT	CIRCUIT FUNCTION
1	932 (GY/W)	Hi Beam Indicator
2	-	NOT USED
3	298 (P/O)	Power (Hot in Run)
4	162 (LG/R)	Park/Brake Switch
5	977 (P/W)	Brake Warning Indicator
6	13 (R/BK)	Lo Beam
7	38 (BK/O)	Power (Hot at All Times)
8	12 (LG/BK)	Hi Beam

Official Licensed Product

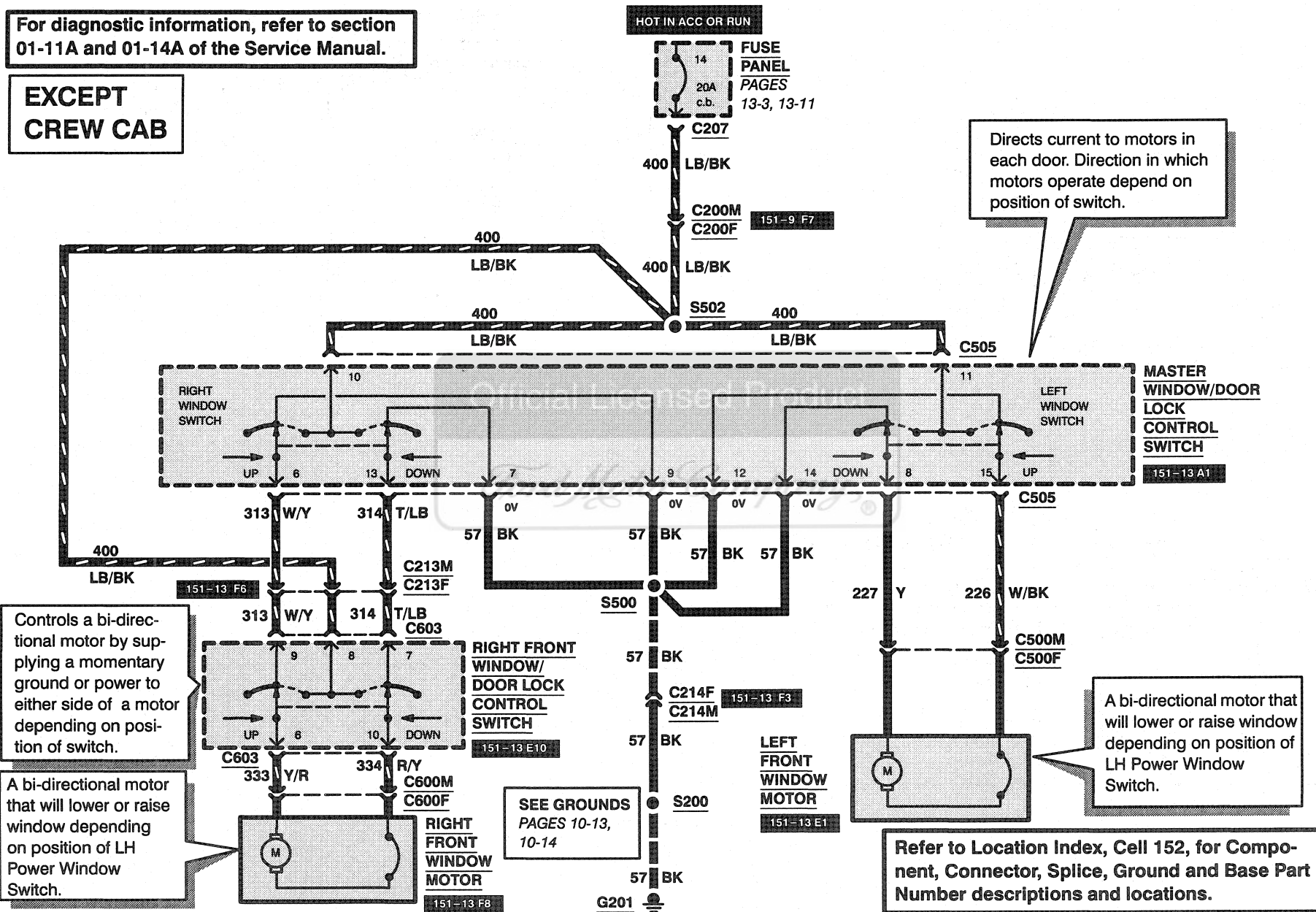
*Ford Motor Company*

# 100-1 POWER WINDOWS

1997 F-250 HD/350/SUPER DUTY

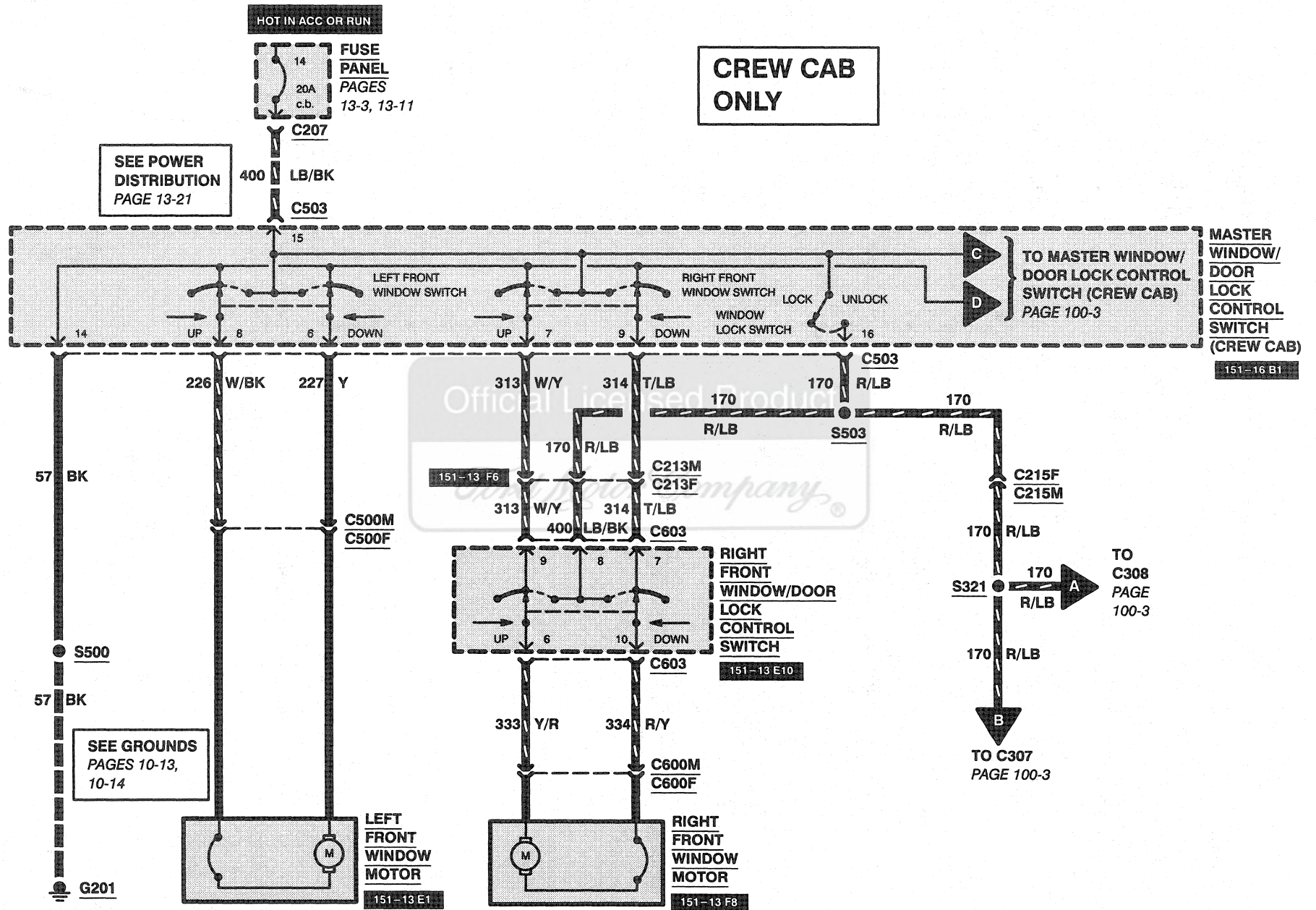
For diagnostic information, refer to section 01-11A and 01-14A of the Service Manual.

**EXCEPT  
CREW CAB**



# POWER WINDOWS 100-2

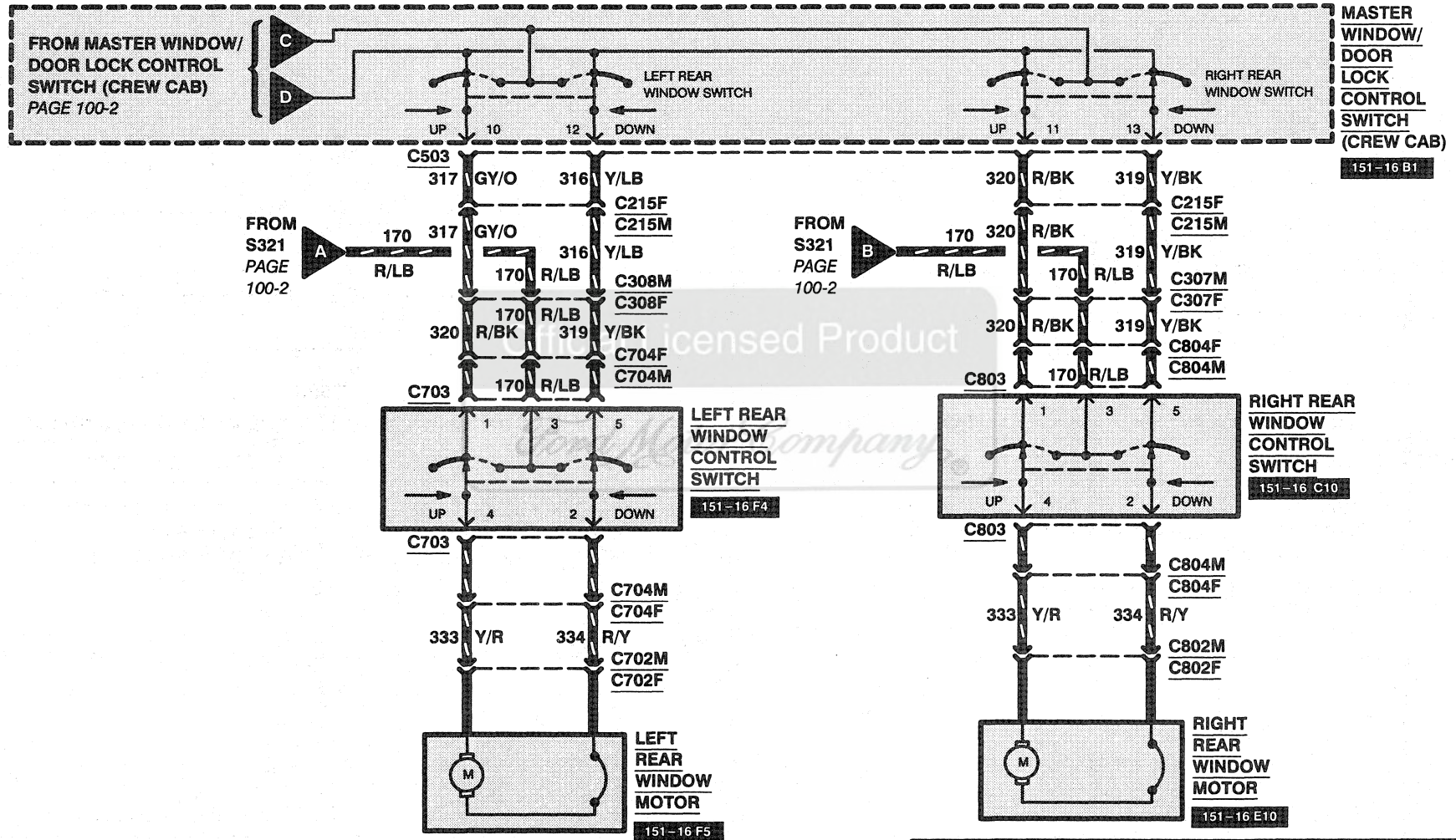
1997 F-250 HD/350/SUPER DUTY



# 100-3 POWER WINDOWS

1997 F-250 HD/350/SUPER DUTY

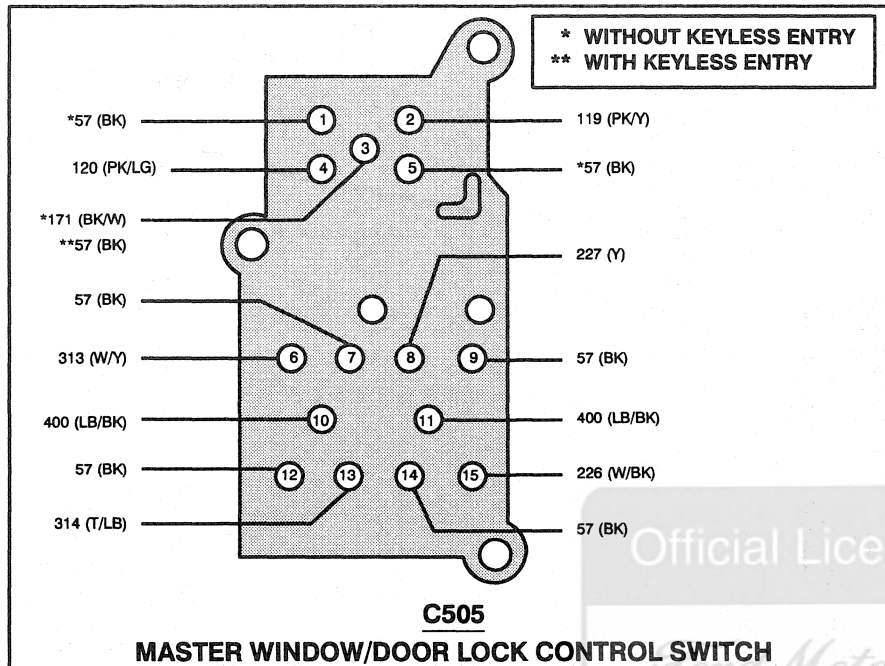
**CREW CAB ONLY**



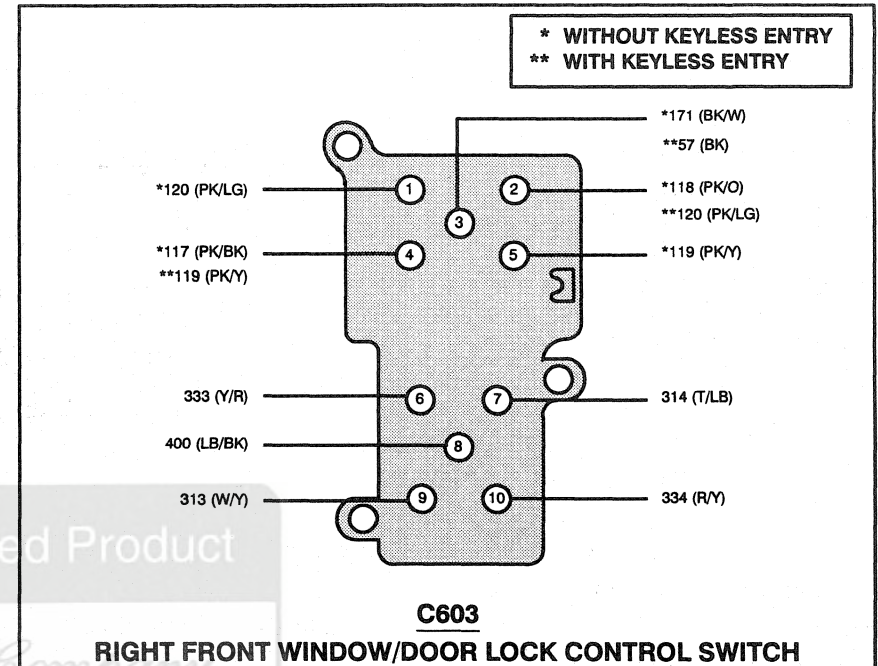
Refer to Location Index, Cell 152, for Component, Connector, Splice, Ground and Base Part Number descriptions and locations.

# POWER WINDOWS 100-4

1997 F-250 HD/350/SUPER DUTY



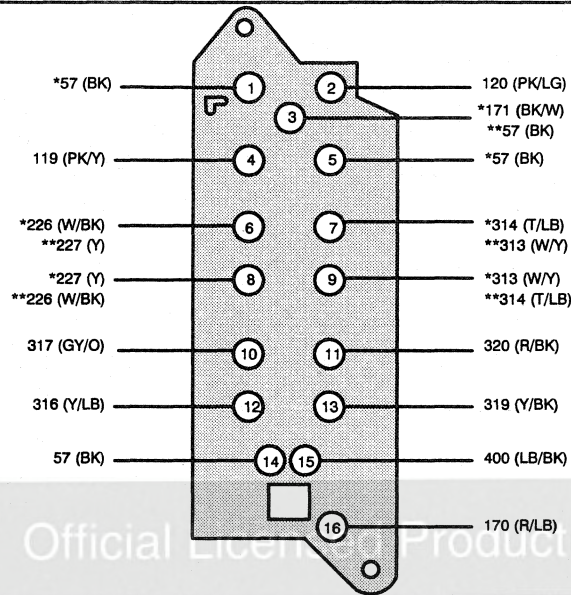
PIN	CIRCUIT	CIRCUIT FUNCTION
1	*57 (BK)	Ground Circuit
2	119 (PK/Y)	Lock Motors Feed/Return
3	*171 (BK/W) **57 (BK)	Power Ground Circuit
4	120 (PK/LG)	Lock Motors Feed/Return
5	*57 (BK)	Ground Circuit
6	313 (W/Y)	Right Window Motor Feed/Return
7	57 (BK)	Ground Circuit
8	227 (Y)	Left Window Motor Feed/Return
9	57 (BK)	Ground Circuit
10	400 (LB/BK)	Power
11	400 (LB/BK)	Power
12	57 (BK)	Ground Circuit
13	314 (T/LB)	Right Window Motor Feed/Return
14	57 (BK)	Ground Circuit
15	226 (W/BK)	Left Window Motor Feed/Return



PIN	CIRCUIT	CIRCUIT FUNCTION
1	*120 (PK/LG)	Feed/Return From Left Switch
2	*118 (PK/O)	Lock Motors Feed/Return
3	**120 (PK/LG)	Feed/Return From Left Switch
4	*171 (BK/W) **57 (BK)	Power Ground Circuit
5	*117 (PK/BK) **119 (PK/Y)	Lock Motors Feed/Return Feed/Return From Left Switch
6	*119 (PK/Y)	Feed/Return From Left Switch
7	333 (Y/R)	Right Window Motor Feed/Return
8	314 (T/LB)	Feed/Return From Left Switch
9	400 (LB/BK)	Power
10	313 (W/Y)	Feed/Return From Left Switch
11	334 (R/Y)	Right Window Motor Feed/Return

# 100-5 POWER WINDOWS

1997 F-250 HD/350/SUPER DUTY



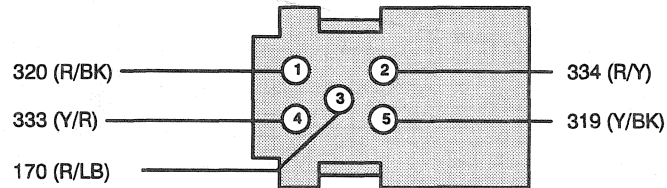
\* WITHOUT KEYLESS ENTRY  
\*\* WITH KEYLESS ENTRY

**C503 MASTER WINDOW/DOOR LOCK CONTROL SWITCH (CREW CAB)**

PIN	CIRCUIT	CIRCUIT FUNCTION	PIN	CIRCUIT	CIRCUIT FUNCTION
1	*57 (BK)	Ground Circuit	9	*313 (W/Y)	LF Window Regulator Switch to RF Window Regulator Motor
2	120 (PK/LG)	Door Lock Switch (Unlock)		**314 (T/LB)	LF Window Regulator Switch to RF Window Regulator Motor
3	*171 (BK/W) **57 (BK)	Circuit Breaker to Seat Latch Relay Ground Circuit	10	317 (GY/O)	LF Window Regulator Switch to LR Window Regulator Motor
4	119 (PK/Y)	Door Lock Switch (Lock)	11	320 (R/BK)	LF Window Regulator Switch to RR Window Regulator Motor
5	*57 (BK)	Ground Circuit	12	316 (Y/LB)	LF Window Regulator Switch to LR Window Regulator Motor
6	*226 (W/BK) **227 (Y)	LF Window Regulator Switch to LF Window Regulator Motor LF Window Regulator Switch to LF Window Regulator Motor	13	319 (Y/BK)	LF Window Regulator Switch to RR Window Regulator Motor
7	*314 (T/LB) **313 (W/Y)	LF Window Regulator Switch to RF Window Regulator Motor LF Window Regulator Switch to RF Window Regulator Motor	14	57 (BK)	Ground Circuit
8	*227 (Y) **226 (W/BK)	LF Window Regulator Switch to LF Window Regulator Motor LF Window Regulator Switch to LF Window Regulator Motor	15	400 (LB/BK)	Ignition (Hot in ACC or RUN)
			16	170 (R/LB)	Window Lock Switch

# POWER WINDOWS 100-6

1997 F-250 HD/350/SUPER DUTY



**C703 LEFT REAR WINDOW CONTROL SWITCH  
OR  
C803 RIGHT REAR WINDOW CONTROL SWITCH**

## CELL 100 CONNECTOR REFERENCE LIST

CONNECTOR	SECTION-PAGE
C200	150-5
C213	150-11
C214	150-11

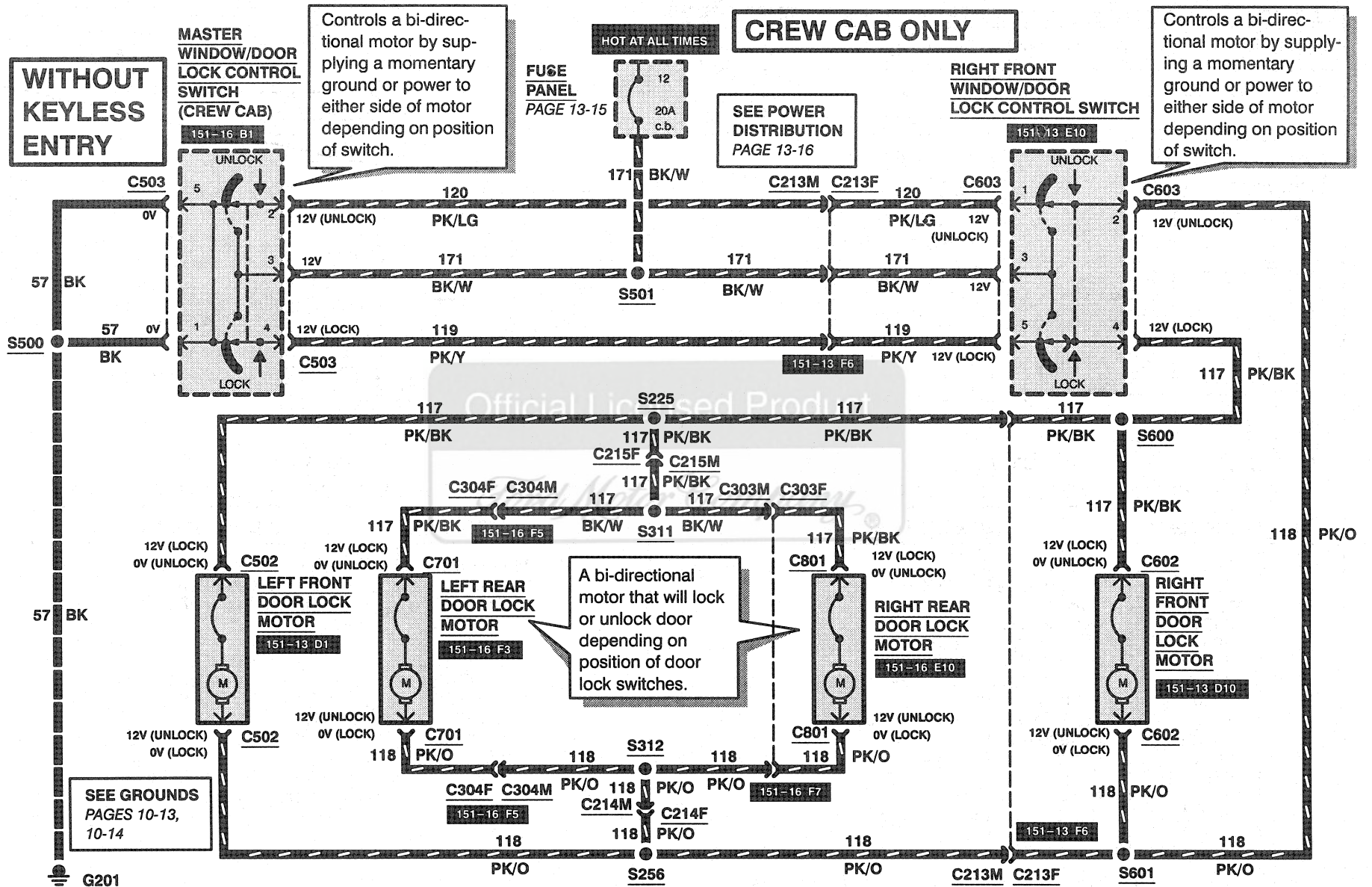
PIN	CIRCUIT	CIRCUIT FUNCTION
1	320 (R/BK)	Regulator Switch to Window Control Switch
2	334 (R/Y)	Window Motor Feed/Return
3	170 (R/LB)	Window Lock Switch
4	333 (Y/R)	Window Motor Feed/Return
5	319 (Y/BK)	Regulator Switch to Window Control Switch





# POWER DOOR LOCKS 110-2

1997 F-250 HD/350/SUPER DUTY



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

# 110-3 POWER DOOR LOCKS

1997 F-250 HD/350/SUPER DUTY

\* WITHOUT KEYLESS ENTRY  
\*\* WITH KEYLESS ENTRY

\*57 (BK) — 1

120 (PK/LG) — 4

\*171 (BK/W) — 3

\*\*57 (BK) — 5

57 (BK) — 6

313 (W/Y) — 7

400 (LB/BK) — 10

57 (BK) — 12

314 (T/LB) — 13

119 (PK/Y) — 2

\*57 (BK) — 5

227 (Y) — 8

57 (BK) — 9

400 (LB/BK) — 11

226 (W/BK) — 14

57 (BK) — 15

**C505**

**MASTER WINDOW/DOOR LOCK CONTROL SWITCH**

PIN	CIRCUIT	CIRCUIT FUNCTION
1	*57 (BK)	Ground Circuit
2	119 (PK/Y)	Lock Motors Feed/Return
3	*171 (BK/W) **57 (BK)	Power Ground Circuit
4	120 (PK/LG)	Lock Motors Feed/Return
5	*57 (BK)	Ground Circuit
6	313 (W/Y)	Right Window Motor Feed/Return
7	57 (BK)	Ground Circuit
8	227 (Y)	Left Window Motor Feed/Return
9	57 (BK)	Ground Circuit
10	400 (LB/BK)	Power
11	400 (LB/BK)	Power
12	57 (BK)	Ground Circuit
13	314 (T/LB)	Right Window Motor Feed/Return
14	57 (BK)	Ground Circuit
15	226 (W/BK)	Left Window Motor Feed/Return

\* WITHOUT KEYLESS ENTRY  
\*\* WITH KEYLESS ENTRY

\*120 (PK/LG) — 1

\*117 (PK/BK)  
\*\*119 (PK/Y) — 4

333 (Y/R) — 6

400 (LB/BK) — 8

313 (W/Y) — 9

\*171 (BK/W)  
\*\*57 (BK) — 2

\*118 (PK/O)  
\*\*120 (PK/LG) — 5

\*119 (PK/Y) — 5

314 (T/LB) — 7

314 (T/LB) — 7

334 (R/Y) — 10

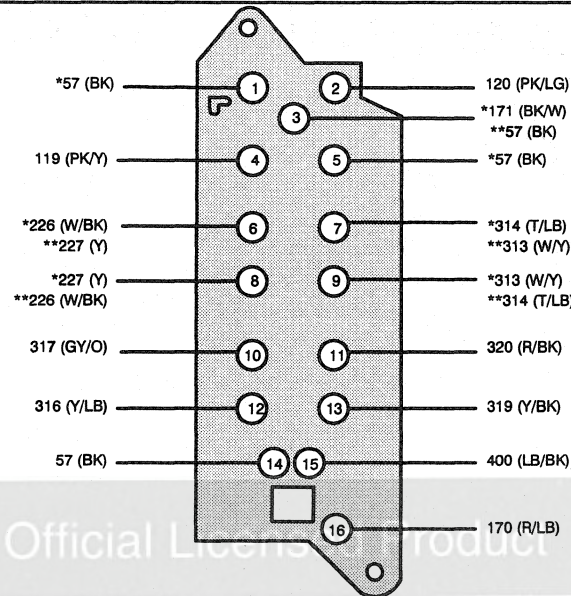
**C603**

**RIGHT FRONT WINDOW/DOOR LOCK CONTROL SWITCH**

PIN	CIRCUIT	CIRCUIT FUNCTION
1	*120 (PK/LG)	Feed/Return From Left Switch
2	*118 (PK/O) **120 (PK/LG)	Lock Motors Feed/Return Feed/Return From Left Switch
3	*171 (BK/W) **57 (BK)	Power Ground Circuit
4	*117 (PK/BK) **119 (PK/Y)	Lock Motors Feed/Return Feed/Return From Left Switch
5	*119 (PK/Y)	Feed/Return From Left Switch
6	333 (Y/R)	Right Window Motor Feed/Return
7	314 (T/LB)	Feed/Return From Left Switch
8	400 (LB/BK)	Power
9	313 (W/Y)	Feed/Return From Left Switch
10	334 (R/Y)	Right Window Motor Feed/Return

# POWER DOOR LOCKS 110-4

1997 F-250 HD/350/SUPER DUTY



\* WITHOUT KEYLESS ENTRY  
\*\* WITH KEYLESS ENTRY

**CREW CAB**

**C503 MASTER WINDOW/DOOR LOCK CONTROL SWITCH (CREW CAB)**

PIN	CIRCUIT	CIRCUIT FUNCTION	PIN	CIRCUIT	CIRCUIT FUNCTION
1	*57 (BK)	Ground Circuit	9	*313 (W/Y)	LF Window Regulator Switch to RF Window Regulator Motor
2	120 (PK/LG)	Door Lock Switch (Unlock)		**314 (T/LB)	LF Window Regulator Switch to RF Window Regulator Motor
3	*171 (BK/W)	Circuit Breaker to Seat Latch Relay	10	317 (GY/O)	LF Window Regulator Switch to LR Window Regulator Motor
	*57 (BK)	Ground Circuit	11	320 (R/BK)	LF Window Regulator Switch to RR Window Regulator Motor
4	119 (PK/Y)	Door Lock Switch (Lock)	12	316 (Y/LB)	LF Window Regulator Switch to LR Window Regulator Motor
5	*57 (BK)	Ground Circuit	13	319 (Y/BK)	LF Window Regulator Switch to RR Window Regulator Motor
6	*226 (W/BK)	LF Window Regulator Switch to LF Window Regulator Motor	14	57 (BK)	Ground Circuit
	**227 (Y)	LF Window Regulator Switch to LF Window Regulator Motor	15	400 (LB/BK)	Ignition (Hot in ACC or RUN)
7	*314 (T/LB)	LF Window Regulator Switch to RF Window Regulator Motor	16	170 (R/LB)	Window Lock Switch
	**313 (W/Y)	LF Window Regulator Switch to RF Window Regulator Motor			
8	*227 (Y)	LF Window Regulator Switch to LF Window Regulator Motor			
	**226 (W/BK)	LF Window Regulator Switch to LF Window Regulator Motor			

# 110-5 POWER DOOR LOCKS

1997 F-250 HD/350/SUPER DUTY

## CELL 110 CONNECTOR REFERENCE LIST

CONNECTOR	SECTION-PAGE
C213	150-11
C214	150-11
C215	150-12

Official Licensed Product

*Ford Motor Company*

# NOTES 110-6

1997 F-250 HD/350/SUPER DUTY

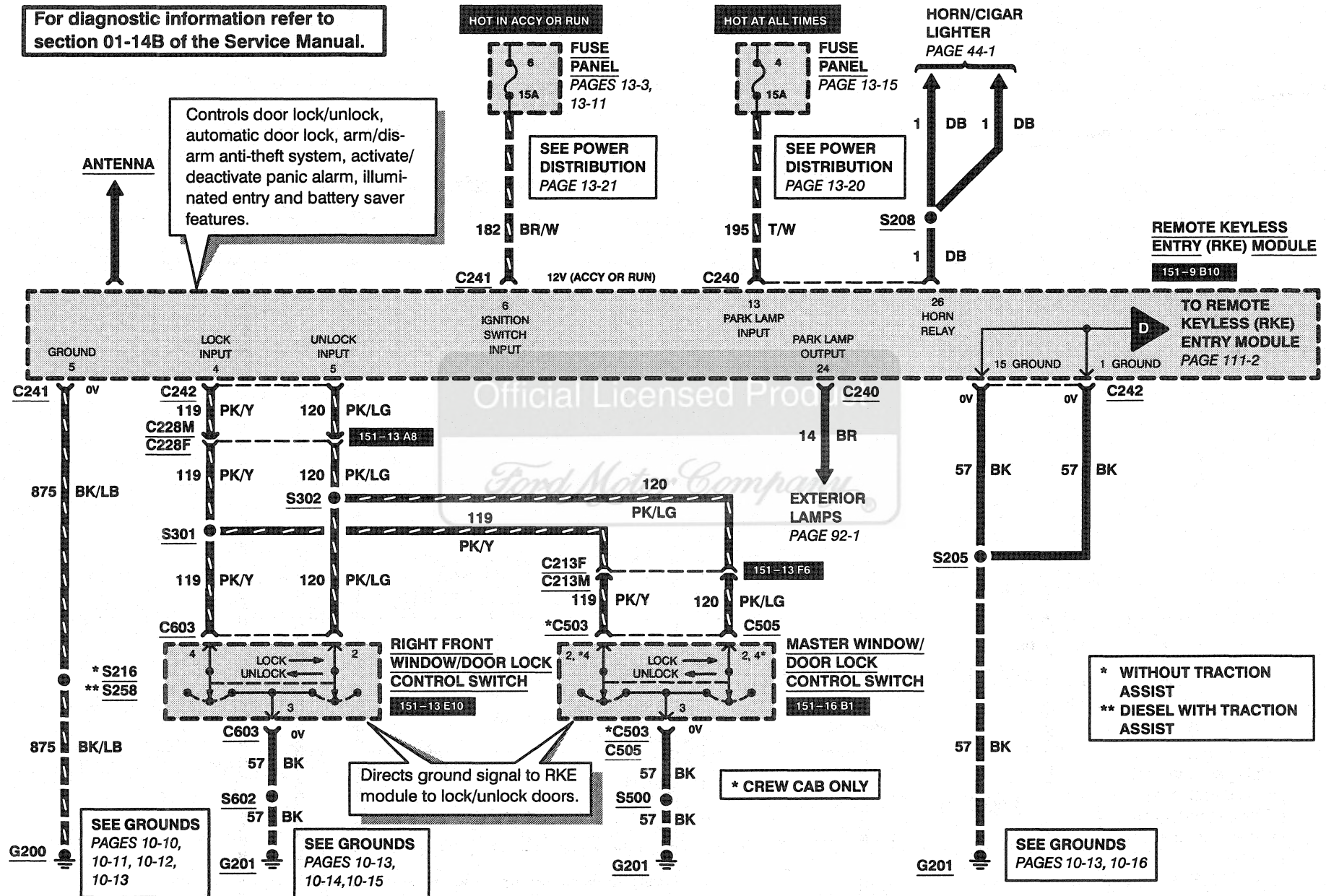
Official Licensed Product

*Ford Motor Company*

# 111-1 KEYLESS ENTRY

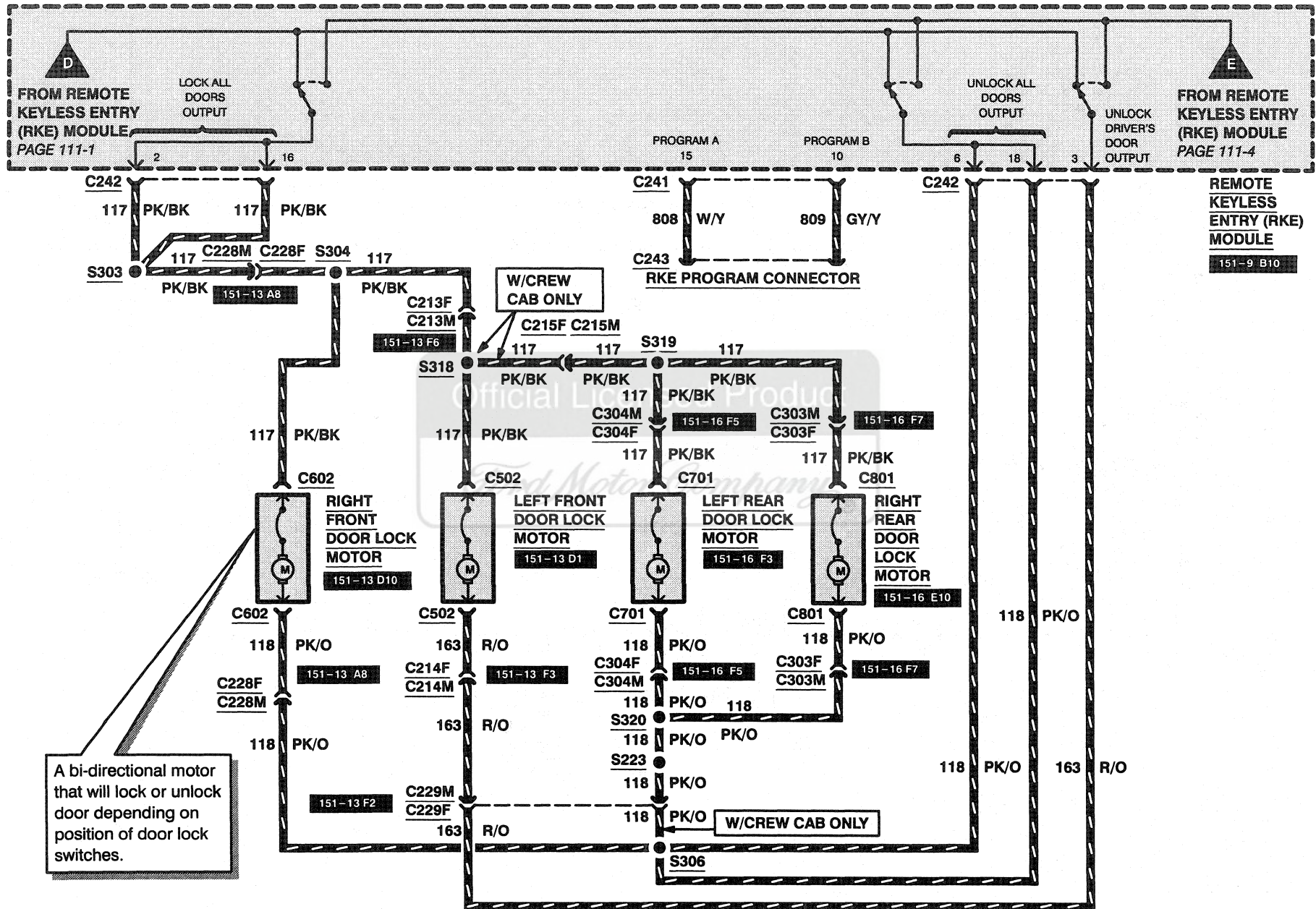
1997 F-250 HD/350/SUPER DUTY

For diagnostic information refer to section 01-14B of the Service Manual.



# KEYLESS ENTRY 111-2

1997 F-250 HD/350/SUPER DUTY



A bi-directional motor that will lock or unlock door depending on position of door lock switches.

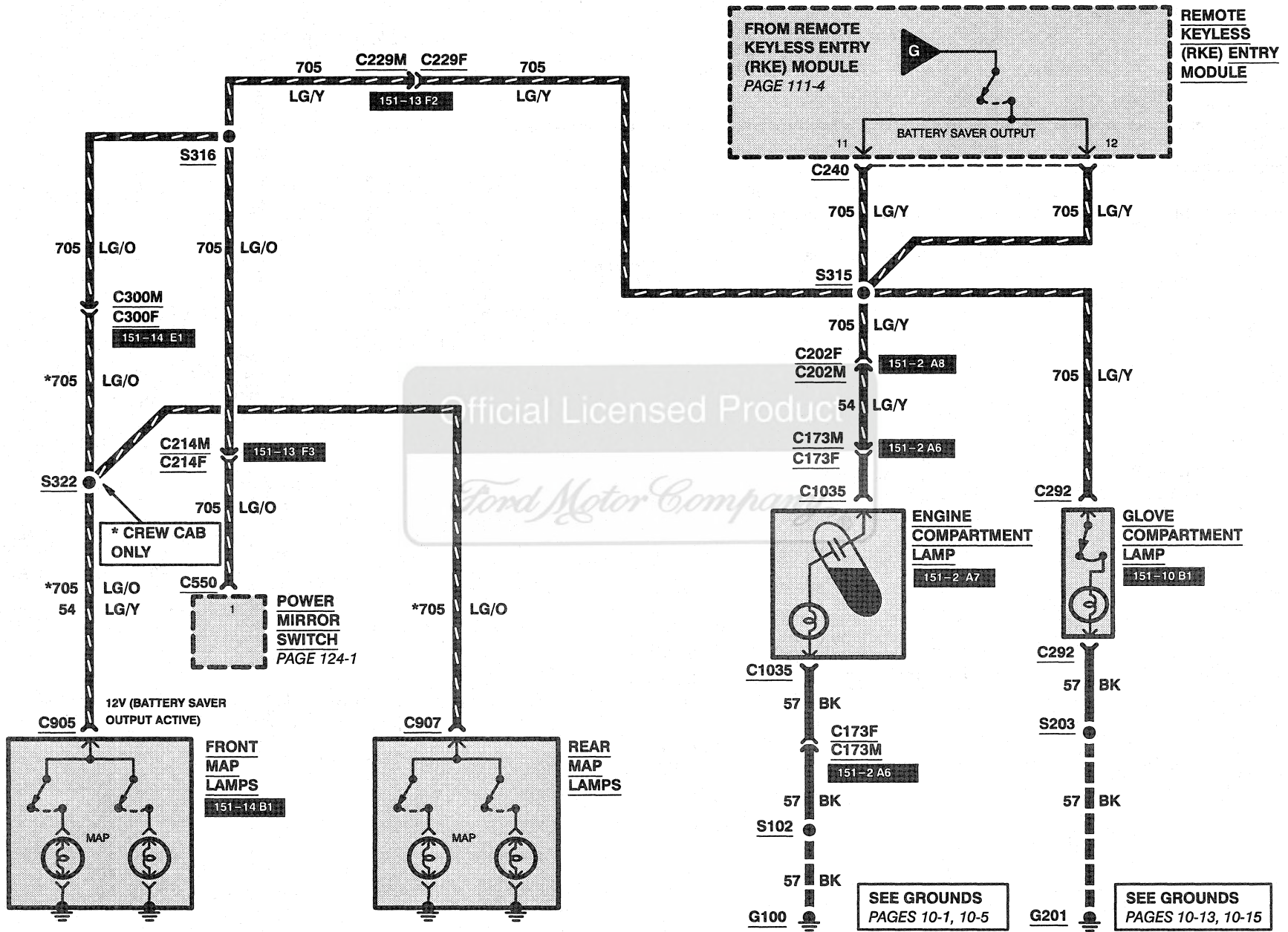






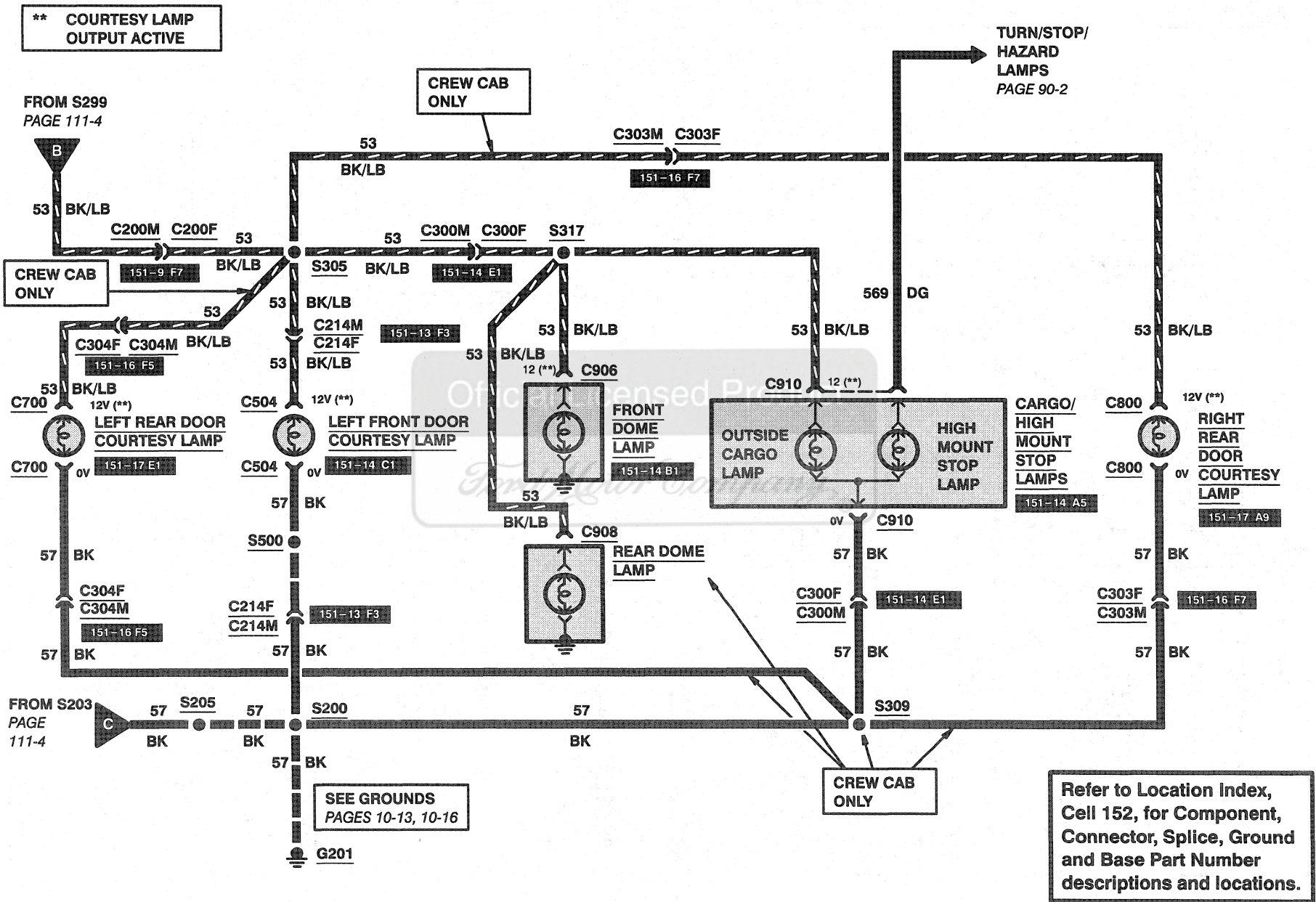
# 111-5 KEYLESS ENTRY

1997 F-250 HD/350/SUPER DUTY



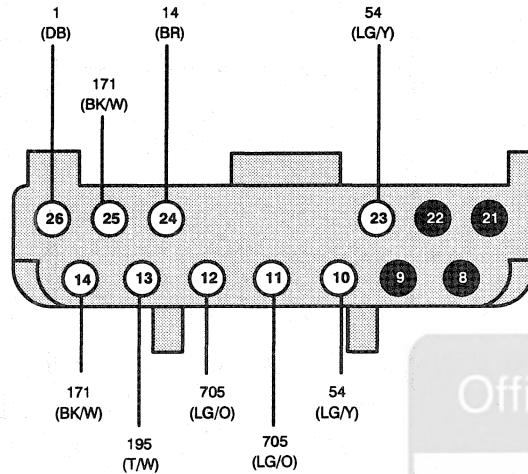
# KEYLESS ENTRY 111-6

1997 F-250 HD/350/SUPER DUTY



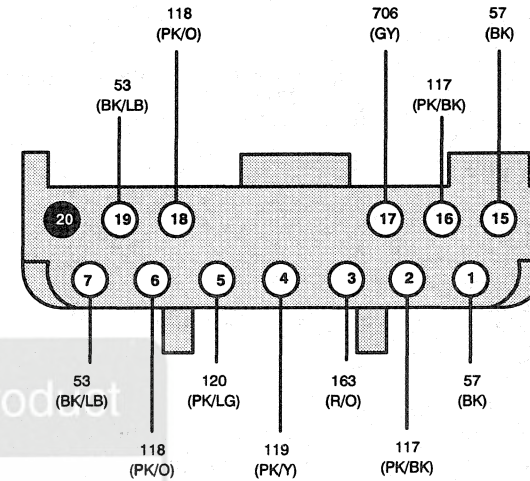
# 111-7 KEYLESS ENTRY

1997 F-250 HD/350/SUPER DUTY



**C240**

**REMOTE KEYLESS ENTRY (RKE) MODULE**



**C242**

**REMOTE KEYLESS ENTRY (RKE) MODULE**

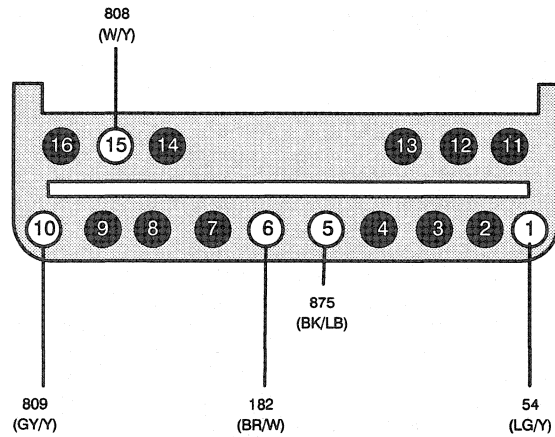
Official Licensed Product

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PIN	CIRCUIT	CIRCUIT FUNCTION	PIN	CIRCUIT	CIRCUIT FUNCTION
1	57 (BK)	Power Ground	14	171 (BK/W)	Battery Power
2	117 (PK/BK)	Lock All Doors	15	57 (BK)	Power Grounds
3	163 (R/O)	Driver's Door Unlock	16	117 (PK/BK)	Lock All Doors
4	119 (PK/Y)	Door Lock Switch (Lock)	17	706 (GY)	Door Jamb Switch
5	120 (PK/LG)	Door Lock Switch (Unlock)	18	118 (PK/O)	Unlock All Doors
6	118 (PK/O)	Unlock All Doors	19	53 (BK/LB)	Illuminated Entry Output
7	53 (BK/LB)	Illuminated Entry Output	20	-	NOT USED
8	-	NOT USED	21	-	NOT USED
9	-	NOT USED	22	-	NOT USED
10	54 (LG/Y)	Battery Power, Battery Saver	23	54 (LG/Y)	Battery Power, Battery Saver Input
11	705 (LG/O)	Input	24	14 (BR)	Park Lamps Output
12	705 (LG/O)	Battery Saver Output	25	171 (BK/W)	Battery Power
13	195 (T/W)	Battery Saver Output	26	1 (DB)	Horn Relay
		Park Lamps Input			

# KEYLESS ENTRY 111-8

1997 F-250 HD/350/SUPER DUTY



**C241**  
**REMOTE KEYLESS ENTRY (RKE) MODULE**

## CELL 111 CONNECTOR REFERENCE LIST

CONNECTOR	SECTION-PAGE
C280	66-2
C252	60-8
C550	124-2
C229	150-13
C235	150-13
C503	100-5
C505	100-4
C603	100-4

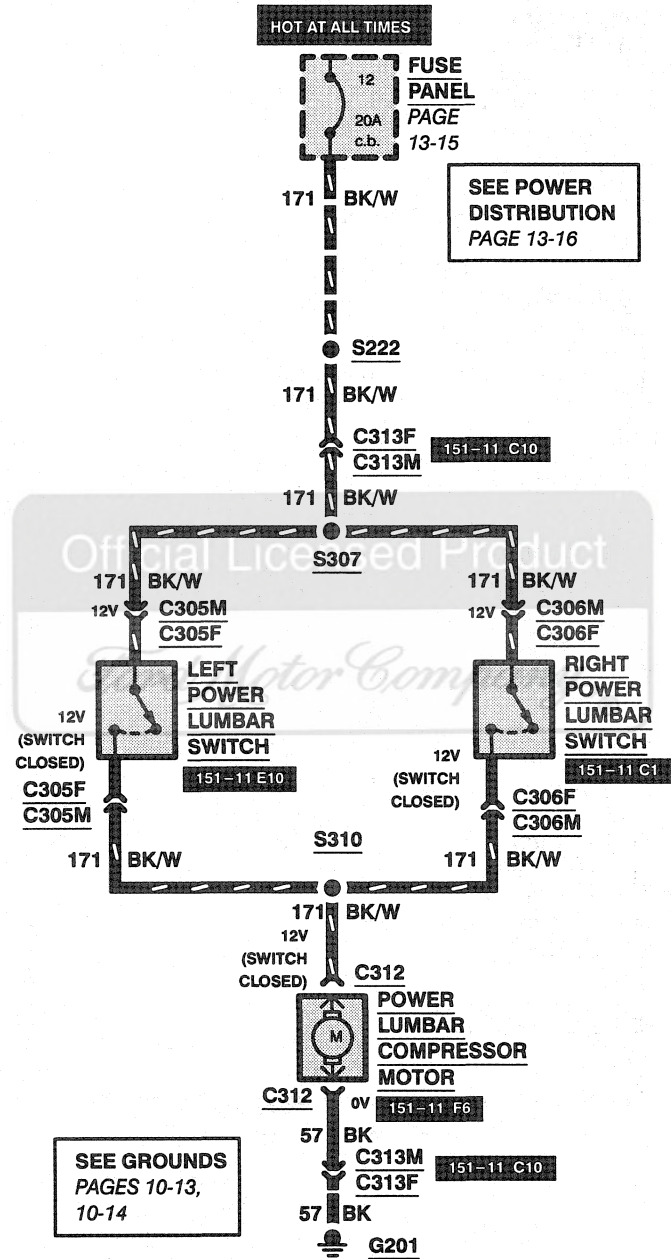
PIN	CIRCUIT	CIRCUIT FUNCTION
1	54 (LG/Y)	Battery Power
2	—	NOT USED
3	—	NOT USED
4	—	NOT USED
5	875 (BK/LB)	Signal Ground
6	182 (BR/W)	Ignition Switch Ground
7	—	NOT USED
8	—	NOT USED
9	—	NOT USED
10	809 (GY/Y)	Remote Keyless Program B
11	—	NOT USED
12	—	NOT USED
13	—	NOT USED
14	—	NOT USED
15	808 (W/Y)	Remote Keyless Program A
16	—	NOT USED



# POWER LUMBAR SEATS 122-2

1997 F-250 HD/350/SUPER DUTY

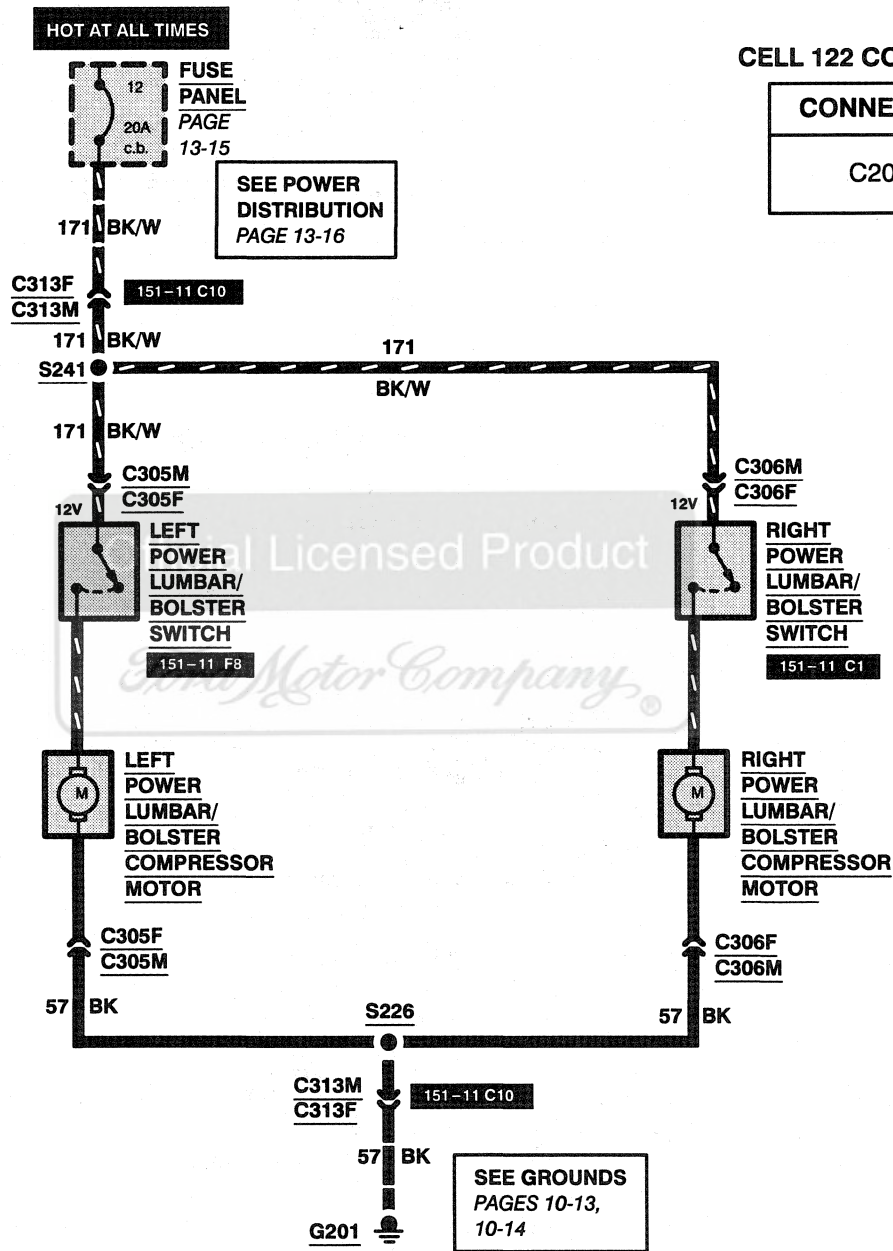
CLOTH BENCH



# 122-3 POWER LUMBAR SEATS

1997 F-250 HD/350/SUPER DUTY

**CAPTAIN'S  
CHAIRS W/POWER  
BOLSTER SEAT**



## CELL 122 CONNECTOR REFERENCE LIST

CONNECTOR	SECTION-PAGE
C200	150-5

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



# NOTES 122-4

1997 F-250 HD/350/SUPER DUTY

Official Licensed Product

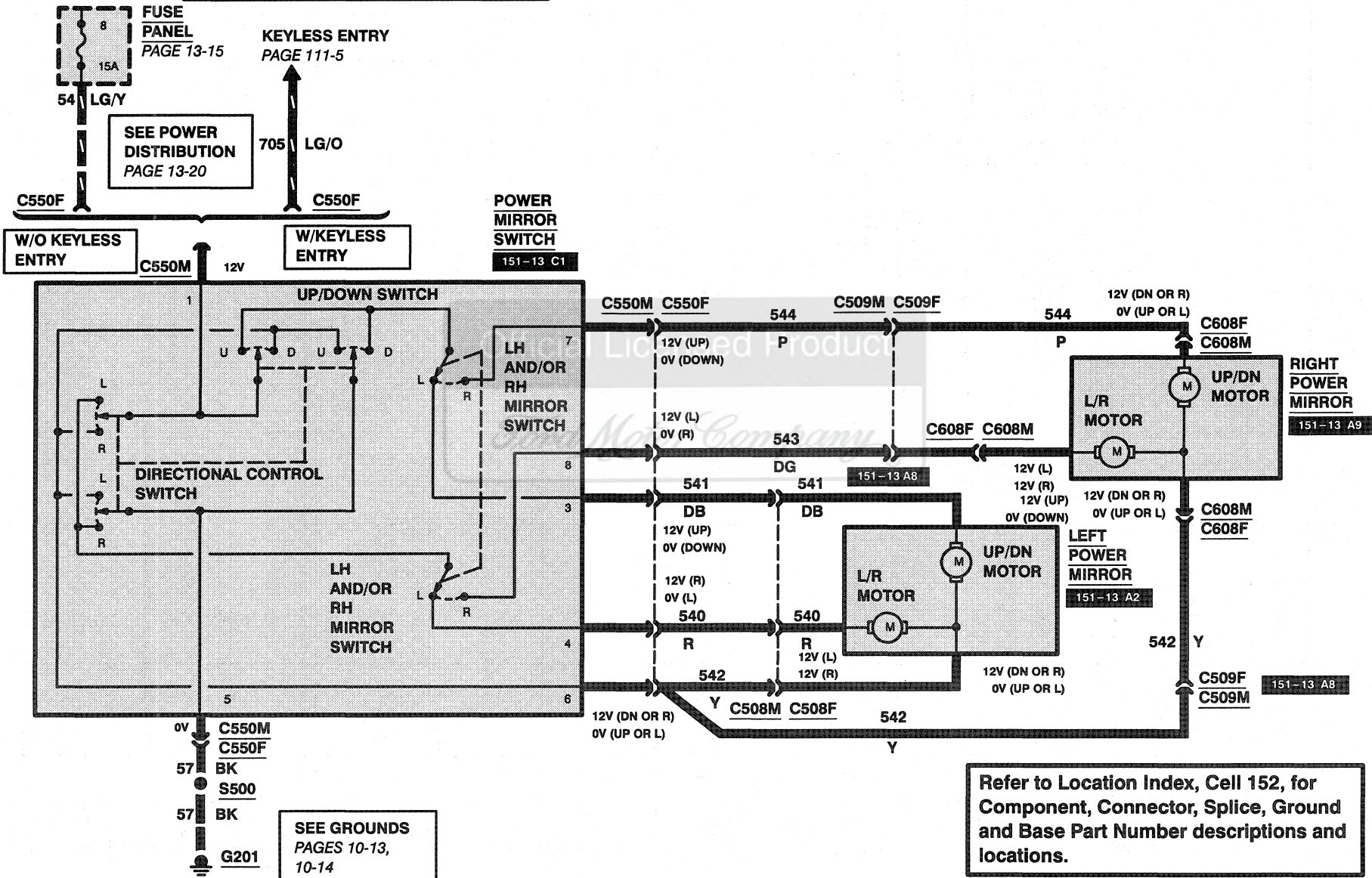
*Ford Motor Company*

# 124-1 POWER MIRRORS

1997 F-250 HD/350/SUPER DUTY

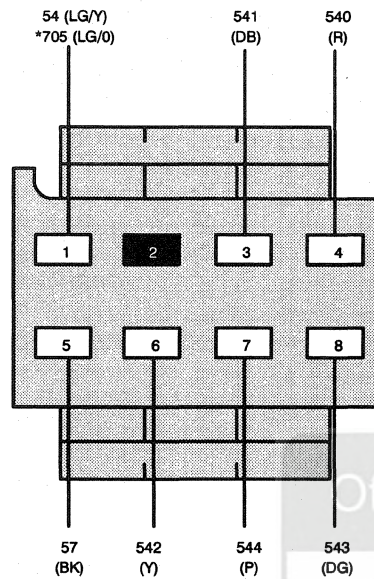
For diagnostic information, refer to section 01-09 of the Service Manual.

HOT AT ALL TIMES



# POWER MIRRORS 124-2

1997 F-250 HD/350/SUPER DUTY



**C550 (GRAY)  
POWER MIRROR SWITCH**

\* (W/REMOTE KEYLESS ENTRY ONLY)

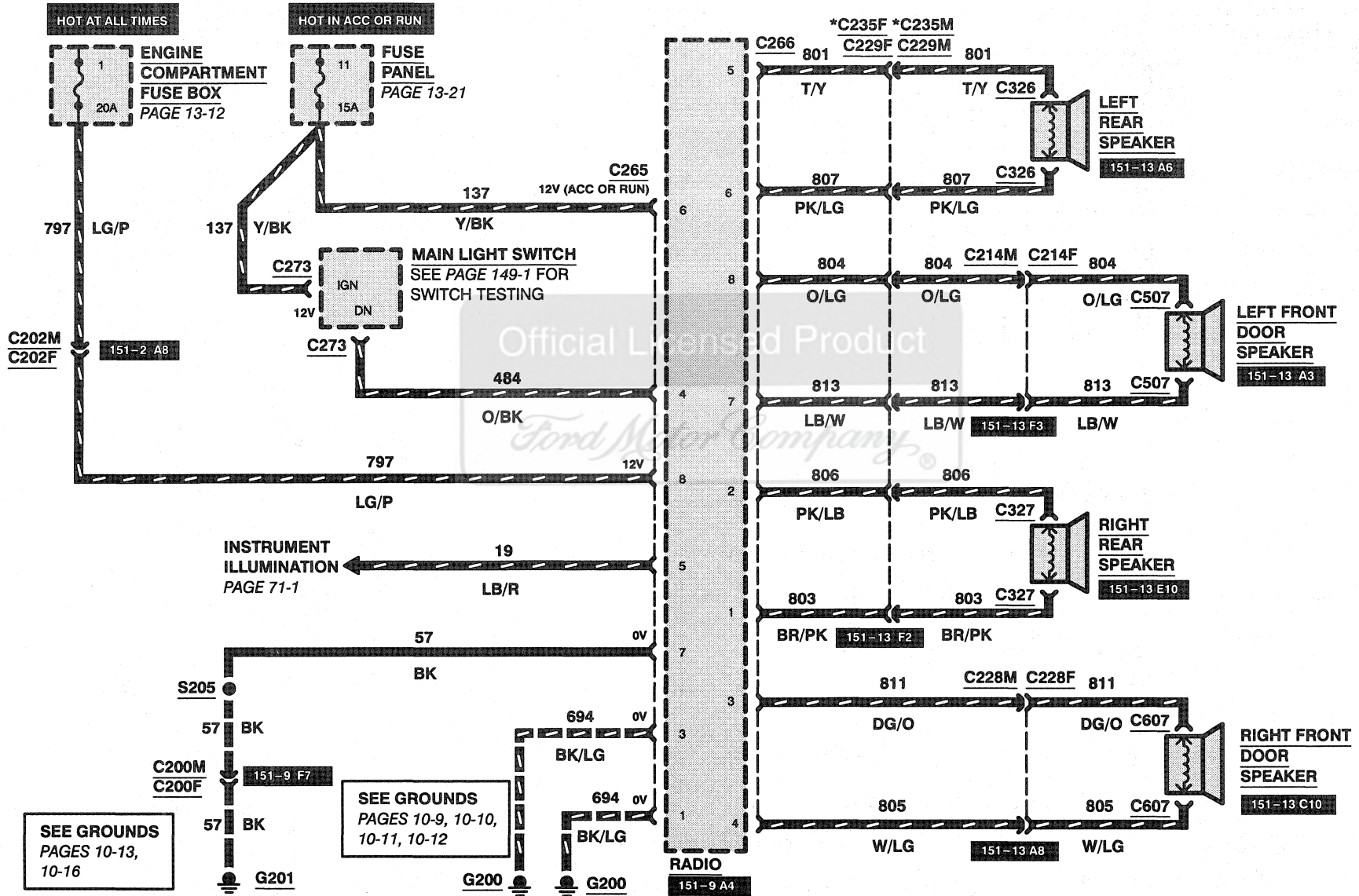
PIN	CIRCUIT	CIRCUIT FUNCTION
1	54 (LG/Y) *705 (LG/O)	Power (Hot at All Times) Power
2	—	NOT USED
3	541 (DB)	LH Mirror U/D Motor (B+ – Up)
4	540 (R)	LH Mirror L/R Motor B+ – Right)
5	57 (BK)	Ground
6	542 (Y)	LH Remote Mirror Solenoid Control
7	544 (P)	RH Mirror U/D Motor (B+ – Up)
8	543 (DG)	RH Mirror L/R Motor (B+ – Right)

# 130-1 RADIO

1997 F-250 HD/350 SUPER DUTY

For diagnostic information, refer to the Audio System Diagnosis Manual.

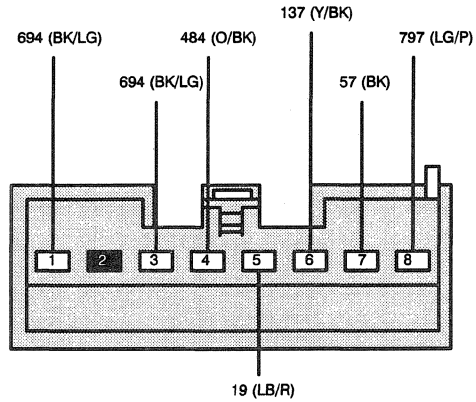
\* W/O KEYLESS ENTRY



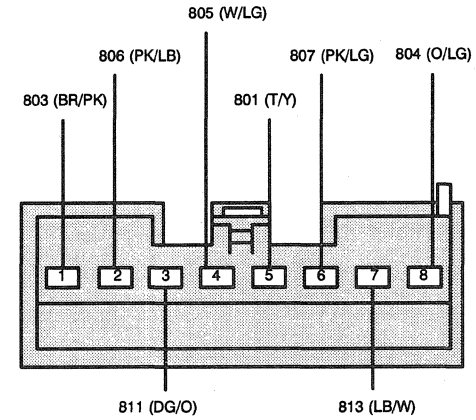


# 130-3 RADIO

1997 F-250 HD/350/SUPER DUTY



**C265 (GRAY)  
RADIO**



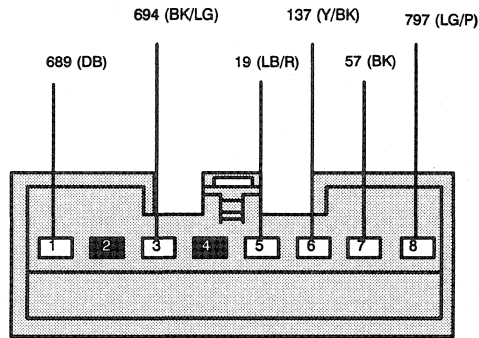
**C266 (BLACK)  
RADIO**

PIN	CIRCUIT	CIRCUIT FUNCTION
1	694 (BK/LG)	Ground
2	-	NOT USED
3	694 (BK/LG)	Ground
4	484 (O/BK)	LCD Lighting
5	19 (LB/R)	Instrument Panel Lamp Feed
6	137 (Y/BK)	12 Volt Power Feed
7	57 (BK)	Ground
8	797 (LG/P)	Radio Memory Power

PIN	CIRCUIT	CIRCUIT FUNCTION
1	803 (BR/PK)	Right Rear Speaker Return (-)
2	806 (PK/LB)	Right Rear Speaker Feed (+)
3	811 (DG/O)	Right Front Speaker Return (-)
4	805 (W/LG)	Right Front Speaker Feed (+)
5	801 (T/Y)	Left Rear Speaker Return (-)
6	807 (PK/LG)	Left Rear Speaker Feed (+)
7	813 (LB/W)	Left Front Speaker Return (-)
8	804 (O/LG)	Left Front Speaker Feed (+)

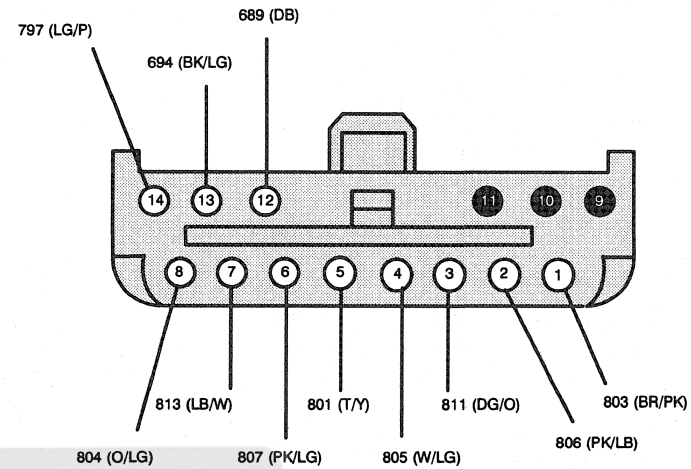
# RADIO 130-4

1997 F-250 HD/350/SUPER DUTY



**C211**  
**RADIO (PREMIUM SOUND ONLY)**

PIN	CIRCUIT	CIRCUIT FUNCTION
1	689 (DB)	Ground
2	-	NOT USED
3	694 (BK/LG)	Ground
4	-	NOT USED
5	19 (LB/R)	Instrument Panel Lamp Feed
6	137 (Y/BK)	12 Volt Power Feed
7	57 (BK)	Ground
8	797 (LG/P)	Radio Memory Power

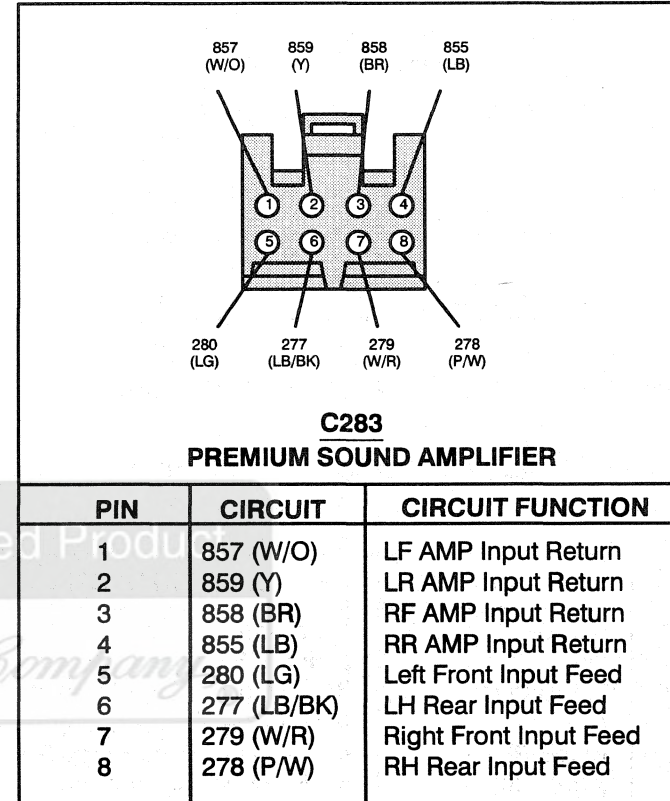
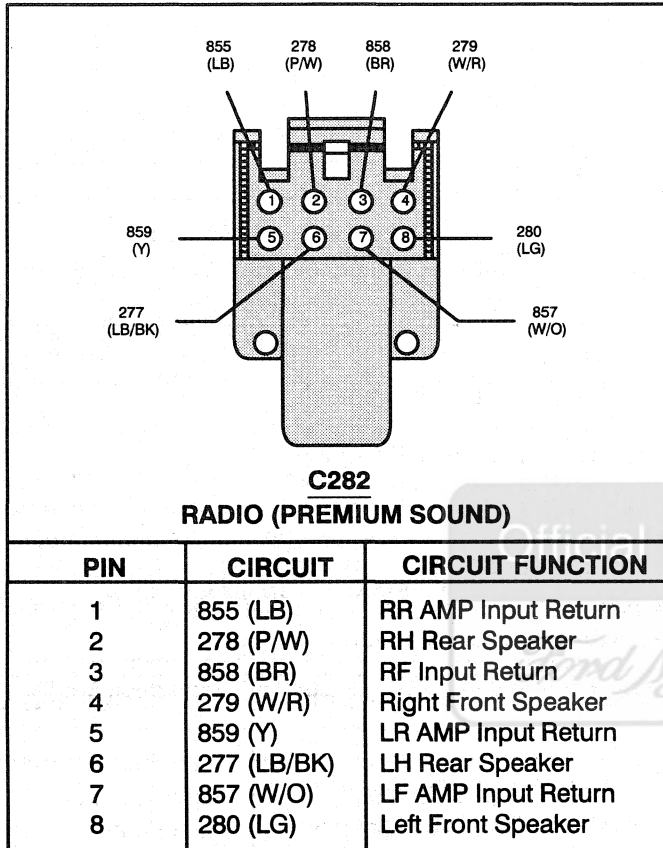


**C212**  
**PREMIUM SOUND AMPLIFIER**

PIN	CIRCUIT	CIRCUIT FUNCTION
1	803 (BR/PK)	Right Rear Speaker Return (-)
2	806 (PK/LB)	Right Rear Speaker Feed (+)
3	811 (DG/O)	Right Front Speaker Return (-)
4	805 (W/LG)	Right Front Speaker Feed (+)
5	801 (T/Y)	Left Rear Speaker Return (-)
6	807 (PK/LG)	Left Rear Speaker Feed (+)
7	813 (LB/W)	Left Front Speaker Return (-)
8	804 (O/LG)	Left Front Speaker Feed (+)
9	-	NOT USED
10	-	NOT USED
11	-	NOT USED
12	689 (DB)	Logic Mode
13	694 (BK/LG)	Ground
14	797 (LG/P)	Battery to Load

# 130-5 RADIO

1997 F-250 HD/350 SUPER DUTY



## CELL 130 CONNECTOR REFERENCE LIST

CONNECTOR	SECTION-PAGE
C214	150-11
C228	150-12
C229	150-13
C235	150-13
C257	150-14
C258	150-14



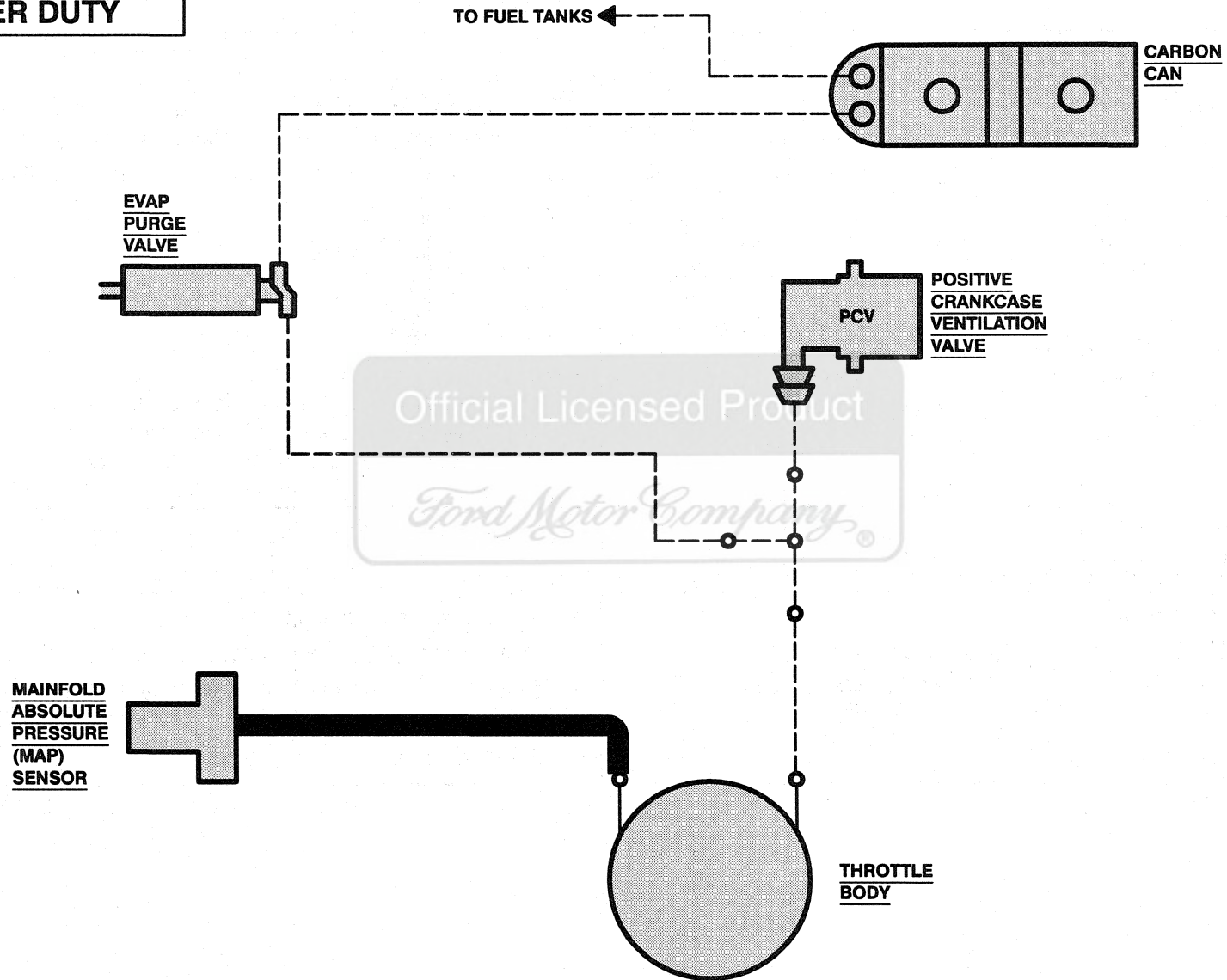
## TROUBLESHOOTING HINTS

CONDITION	POSSIBLE CAUSE	ACTION
<ul style="list-style-type: none"> <li>● Panel lamps don't light or dim properly</li> </ul>	<ul style="list-style-type: none"> <li>● Open 19 (LB/R) wire</li> <li>● Inoperative Radio</li> </ul>	<ul style="list-style-type: none"> <li>● With headlamps on and Dimming Switch set at maximum, check for voltage in 19 (LB/R) wire at Radio connector</li> <li>● If voltage isn't present, check 19 (LB/R) for an open. If voltage is present, remove Radio for service.</li> </ul>
<ul style="list-style-type: none"> <li>● Display doesn't dim with headlamps on or off</li> </ul>	<ul style="list-style-type: none"> <li>● Open 484 (O/BK) wire</li> <li>● Inoperative Radio</li> </ul>	<ul style="list-style-type: none"> <li>● Check for voltage in 484(O/BK) wire at Radio connector (with headlamps on, voltage is reduced through I/P Dimming Switch)</li> <li>● If voltage isn't present, repair 484 (O/BK) for an open. If voltage is present, remove Radio for service.</li> </ul>
<ul style="list-style-type: none"> <li>● One Speaker doesn't work</li> </ul>	<ul style="list-style-type: none"> <li>● Open Speaker</li> <li>● Open or shorted Speaker leads</li> </ul>	<ul style="list-style-type: none"> <li>● Disconnect Speaker leads from Radio. Connect an analog ohm-meter across suspect Speaker terminals. If Speaker pops, Speaker is OK. Remove Radio for service. If Speaker doesn't pop, repeat procedure at Speaker. If Speaker now pops, check for open or short in speaker wires.</li> </ul>
<ul style="list-style-type: none"> <li>● Tape Deck sounds distorted or doesn't work</li> </ul>	<ul style="list-style-type: none"> <li>● Foreign materials in Tape Deck</li> <li>● Dirty tape deck heads</li> </ul>	<ul style="list-style-type: none"> <li>● Remove foreign materials and/or clean tape deck heads</li> </ul>
<ul style="list-style-type: none"> <li>● Whine that changes with engine RPM</li> </ul>	<ul style="list-style-type: none"> <li>● Ignition Coil</li> <li>● Inoperative coil</li> <li>● Faulty radio capacitor</li> </ul>	<ul style="list-style-type: none"> <li>● Check for loose spark plug wire</li> <li>● Check for inoperative spark plug</li> <li>● Move all wiring away from Ignition and spark plug wires</li> <li>● Check coil</li> <li>● Check capacitor</li> </ul>

# 140-1 VACUUM DISTRIBUTION

1997 F-250 HD/350/SUPER DUTY

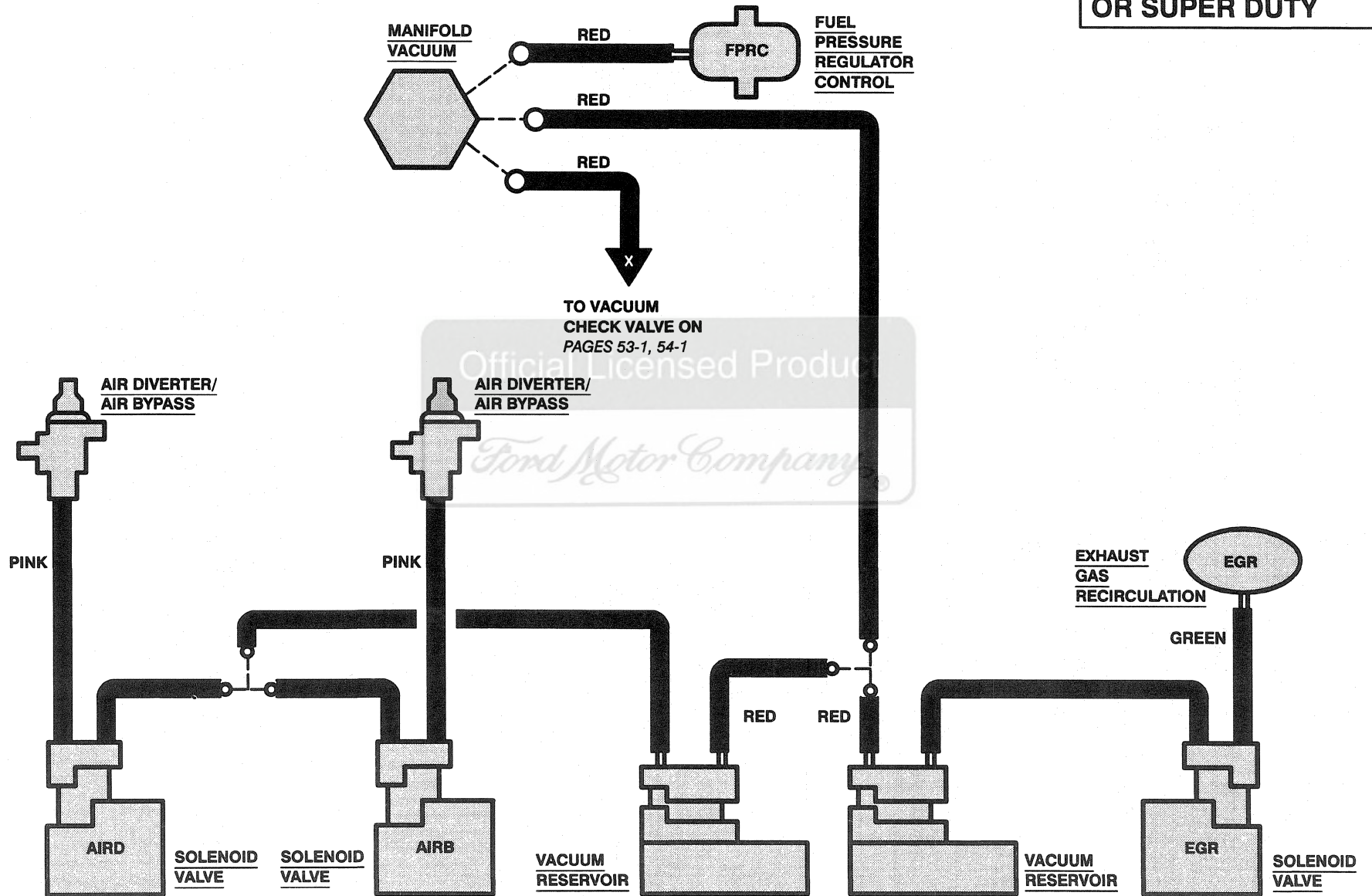
5.8L/7.5L 49 STATES  
OR SUPER DUTY



# VACUUM DISTRIBUTION 140-2

1997 F-250 HD/350/SUPER DUTY

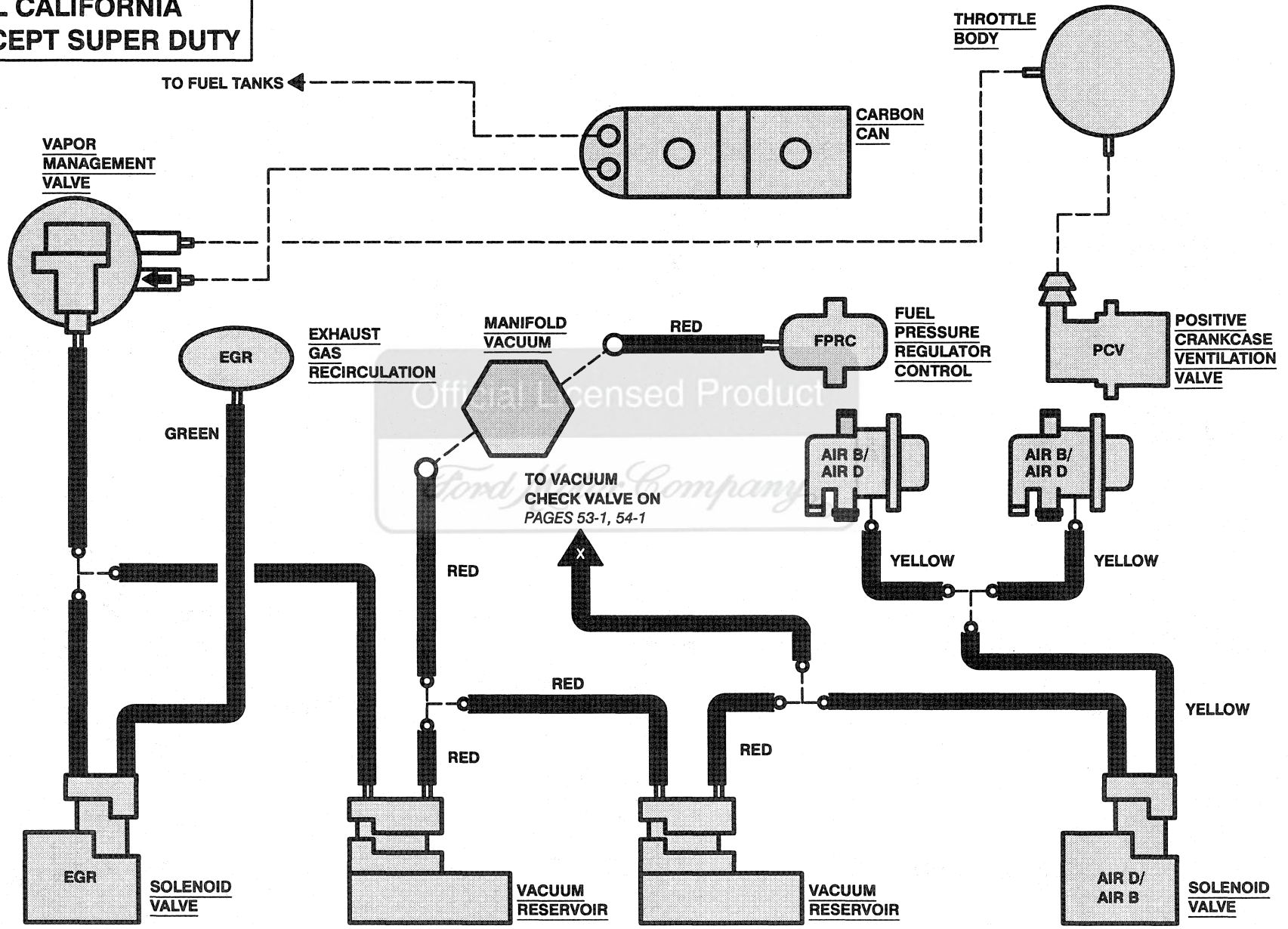
5.8L/7.5L 49 STATES  
OR SUPER DUTY



# 140-3 VACUUM DISTRIBUTION

1997 F-250 HD/350/SUPER DUTY

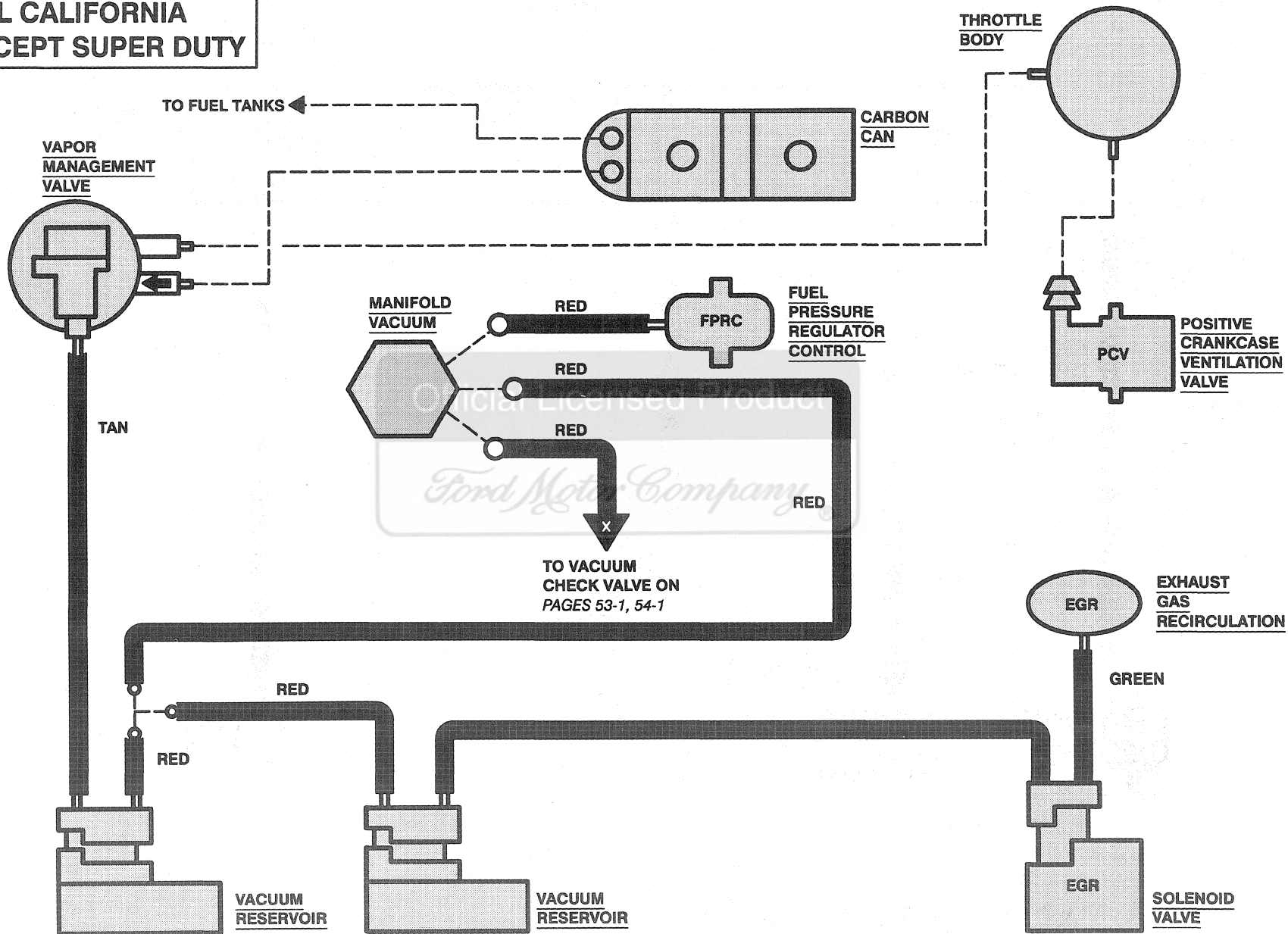
7.5L CALIFORNIA  
EXCEPT SUPER DUTY



# VACUUM DISTRIBUTION 140-4

1997 F-250 HD/350/SUPER DUTY

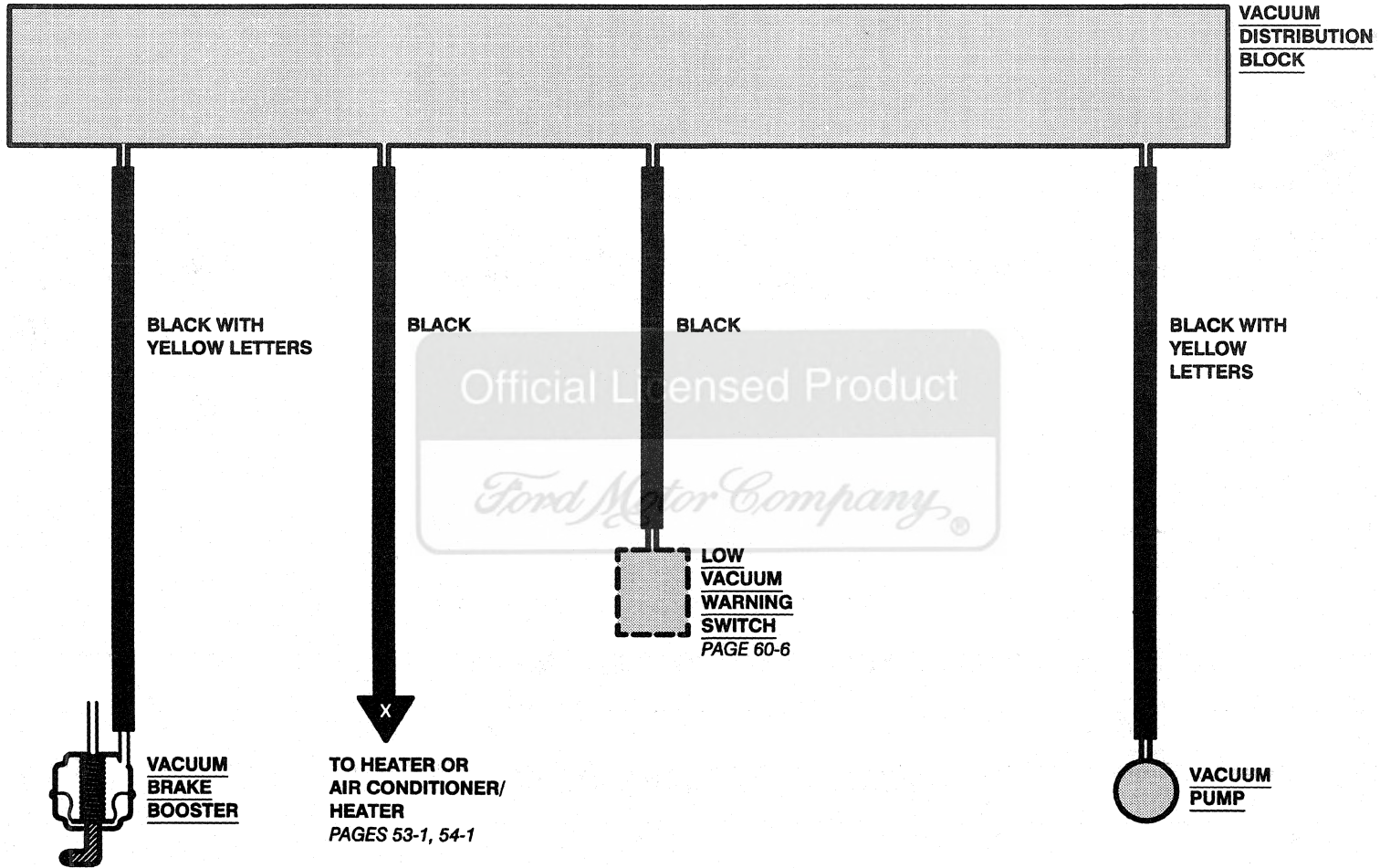
## 5.8L CALIFORNIA EXCEPT SUPER DUTY



# 140-5 VACUUM DISTRIBUTION

1997 F-250 HD/350/SUPER DUTY

**DIESEL ENGINES**



# NOTES 140-6

1997 F-250 HD/350/SUPER DUTY

Official Licensed Product

*Ford Motor Company*®

# 149-1 COMPONENT TESTING: MAIN LIGHT SWITCH

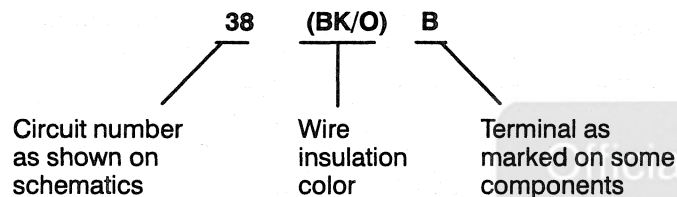
1997 F-250 HD/350/SUPER DUTY

## INTRODUCTION

Component testing procedures are provided to determine whether or not a component is operating properly.

Testing information for each component includes a schematic with component terminal locations and step-by-step test procedures. Component terminals are identified:

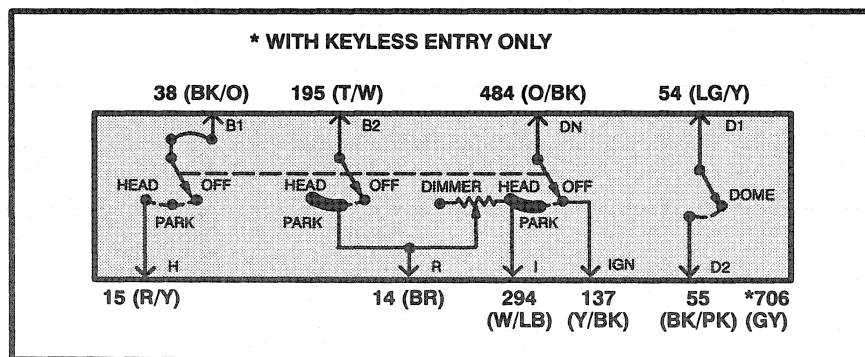
1. by the circuit number of the wires that connect to that terminal.
2. by the wire insulation color.
3. by letters or numbers that may be marked on the component.



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

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

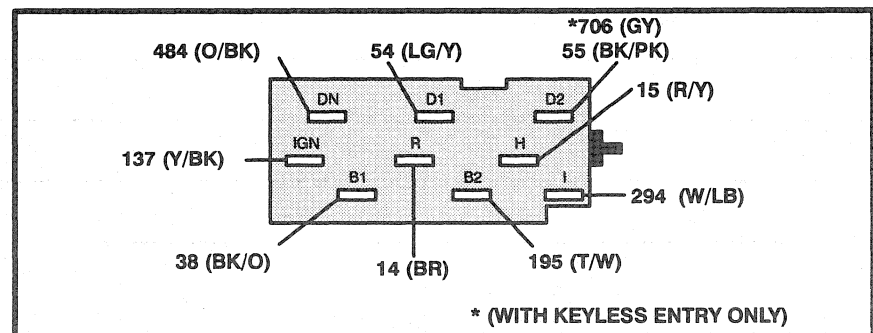
## SCHEMATIC



## COMPONENT TESTING PROCEDURE

TO TEST	Connect Self-Powered Test Lamp or Ohmmeter to Terminals	Move Switch to These Positions	A Good Switch Will Indicate
Headlamp Circuit	38 (BK/O) B1 and 15 (R/Y) H	Off Park Head	Open Circuit Open Circuit Closed Circuit
Park Lamp Circuit	195 (T/W) B2 and 14 (BR) R	Off Park Head	Open Circuit Closed Circuit Closed Circuit
Dome Light Circuit	54 (LG/Y) D1 and 55 (BK/PK) D2 706 (GY) D2	Knob rotated fully counterclockwise (in Detent) Knob rotated fully clockwise (Out of Detent)	Closed Circuit  Open Circuit
Panel Light Dimmer Circuit	14 (BR) R and 294 (W/LB) I	Knob rotated right from full clockwise position	Ohmmeter Will Show Smoothly Increasing Resistance to approx. 11Ω max.
Ignition On, Lamps Off Circuit	137 (Y/BK) IGN and 484 (O/BK) DN	Off Park Head	Closed Circuit Open Circuit Open Circuit
Cluster Dimmer Circuit	294 (W/LB) I and 484 (O/BK) DN	Off Park Head	Open Circuit Closed Circuit Closed Circuit

## TERMINAL LOCATIONS





# COMPONENT TESTING: IGNITION SWITCH 149-2

1997 F-250 HD/350/SUPER DUTY

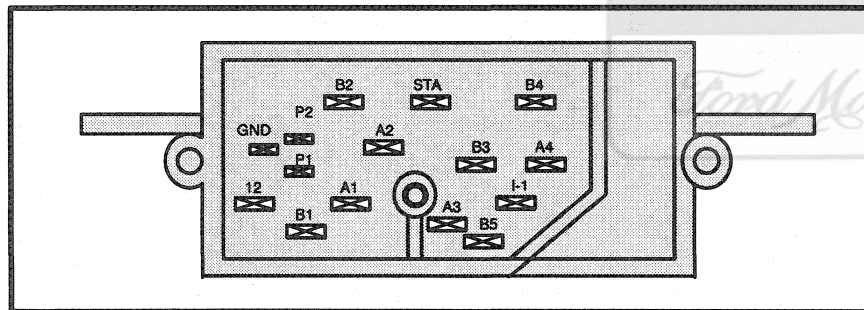
## COMPONENT TESTING PROCEDURE

TO TEST	Connect Self-Powered Test Light or Ohmmeter to Terminals	Move Key to These Positions	A Good Switch Will Indicate
<b>Starter Relay Circuit</b>	37 (Y) B4 and 32 (R/LB) STA	Acc, Lock, Off, Run, Start	Closed Circuit in Start position only
<b>Bulb Prove-Out Circuit</b>	57 (BK) GND and 512 (T/LG) P2 41 (BK/LB) P1*	Acc, Lock, Off, Run, Start	Closed Circuit in Start position only

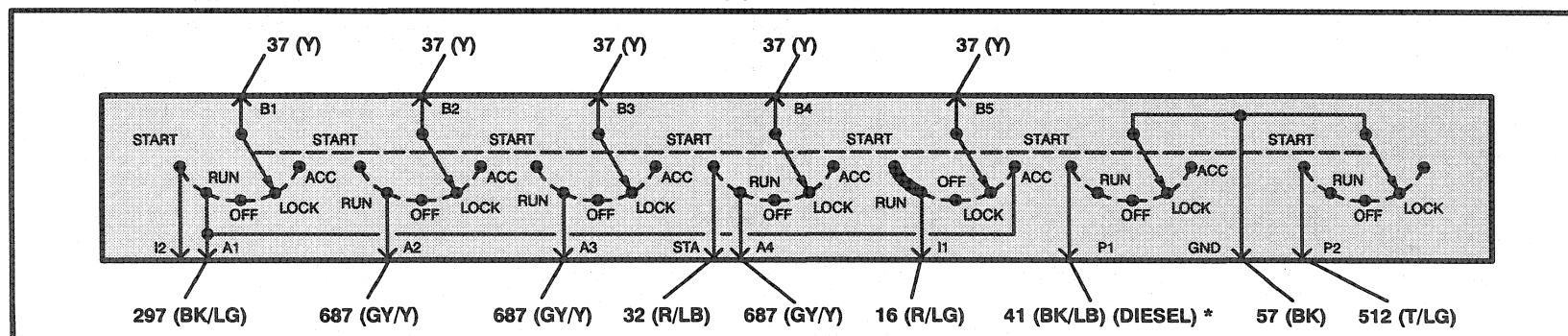
## COMPONENT TESTING PROCEDURE

TO TEST	Connect Self-Powered Test Light or Ohmmeter to Terminals	Move Key to These Positions	A Good Switch Will Indicate
<b>Ignition Coil Circuit</b>	37 (Y) B5 and 16 (R/LG) I1	Acc, Lock Off, Run, Start	Closed Circuit in Start and Run positions only
<b>Acc Power Circuit</b>	37 (Y) B1 and 297 (BK/LG) A1	Acc, Lock, Off, Run, Start	Closed Circuit in Run position only
	37 (Y) B5 and 297 (BK/LG) A1	Acc, Lock, Off, Run, Start	Closed Circuit in Acc position only
<b>Run Power Circuit</b>	37 (Y) B3 and 687 (GY/Y) A3	Acc, Lock, Off, Run, Start	Closed Circuit in Run position only
	37 (Y) B2 and 687 (GY/Y) A2	Acc, Lock, Off, Run, Start	Closed Circuit in Run position only
	37 (Y) B4 and 687 (GY/Y) A4	Acc, Lock, Off, Run, Start	Closed Circuit in Run position only

## TERMINAL LOCATIONS



## SCHEMATIC



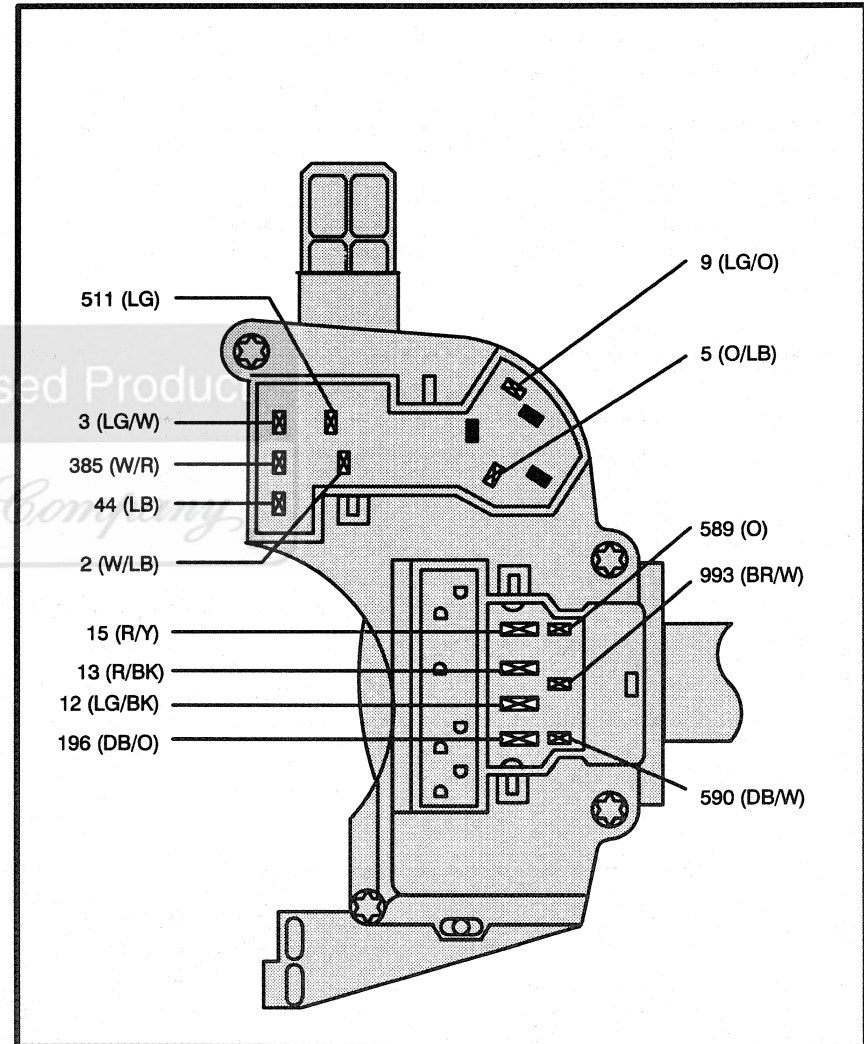
# 149-3 COMPONENT TESTING: MULTI-FUNCTION SWITCH

1997 F-250 HD/350/SUPER DUTY

## COMPONENT TESTING PROCEDURE

TO TEST	Connect Self-Powered Test Light or Ohmmeter to Terminals	Move Switch to These Positions	A Good Switch Will Indicate
Washer Switch Circuit	590 (DB/W) and 993 (BR/W)	With Wiper Switch OFF: Push Washer Switch in Release Washer Switch	Closed Circuit  103.3K ohm
Wiper Switch Circuit	589 (O) and 993 (BR/W)	Off Int Lo Hi	47.6K ohm $\pm$ 5% 11.33K ohm $\pm$ 5% 4.08K ohm $\pm$ 5% Closed Circuit
Interval Time Adjust	590 (DB/W) and 993 (BR/W)	Int and Off	Rotate control toward OFF; Ohmmeter will show smoothly increasing resistance from 3.3K ohm min. to 103.3K ohm max. ( $\pm$ 10%)
		Lo and Hi	3.3K ohm $\pm$ 10%

## TERMINALS

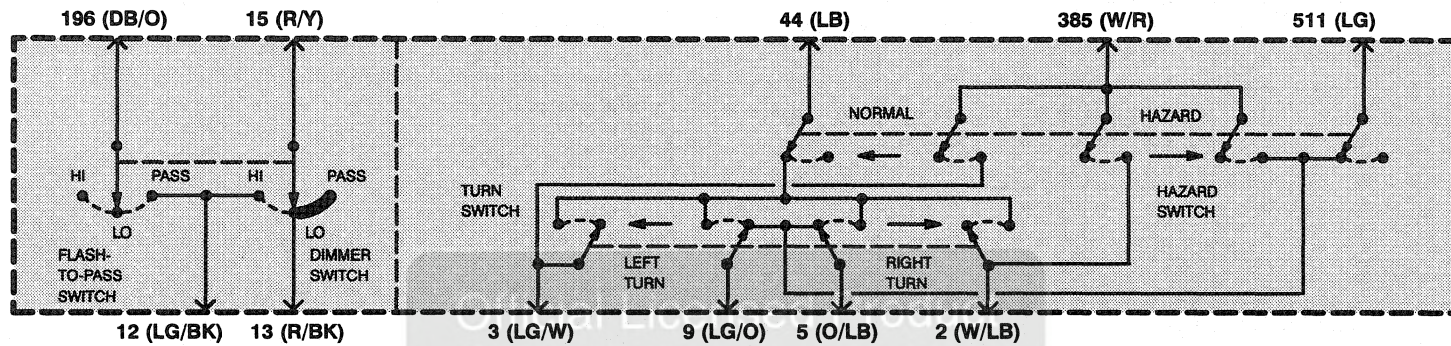


# COMPONENT TESTING: MULTI-FUNCTION SWITCH 149-4

1997 F-250 HD/350/SUPER DUTY

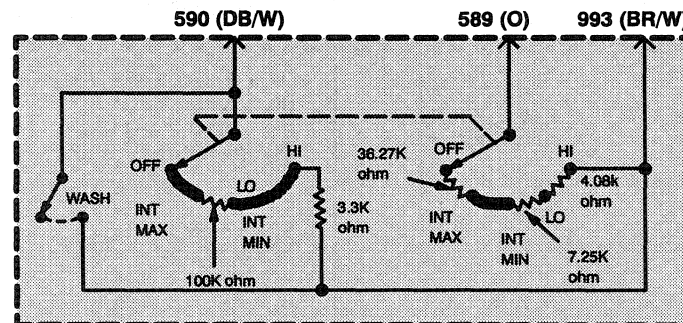
## SCHEMATIC

### SCHEMATIC—DIMMER, FLASH TO PASS, TURN/HAZARD PORTION OF MULTI-FUNCTION SWITCH



*Ford Motor Company*

### SCHEMATIC—WIPER/WASHER PORTION OF MULTI-FUNCTION SWITCH



# 149-5 COMPONENT TESTING: MULTI-FUNCTION SWITCH

1997 F-250 HD/350/SUPER DUTY

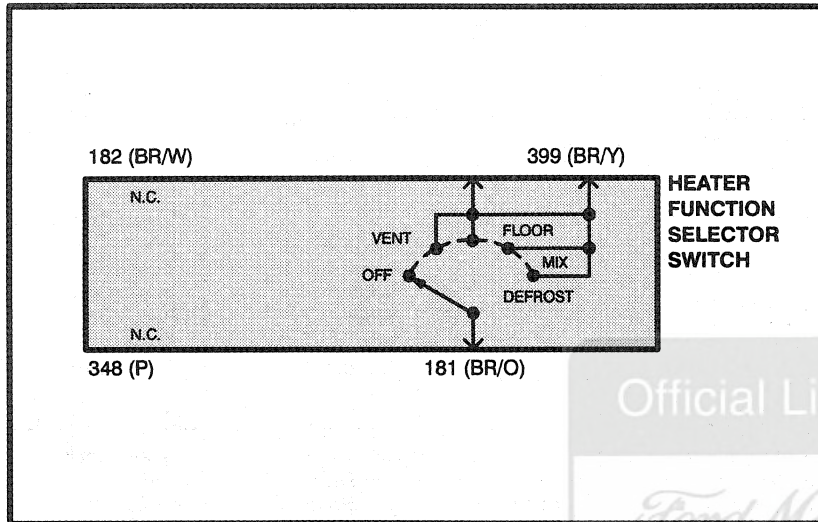
## COMPONENT TESTING PROCEDURE

<b>TO TEST</b>	<b>Connect Self-Powered Test Lamp or Ohmmeter to Terminals</b>	<b>Move Switch to These Positions</b>	<b>A Good Switch Will Indicate</b>
<b>Flash-to-Pass</b>	196(DB/O) and 12 (LG/BK) 15(R/Y) and 13(R/BK)	Lever stalk pull and hold toward steering wheel.	Closed Circuit
<b>Dimmer HI Beam</b>	15(R/Y) and 12(LG/BK)	Lever stalk away from steering wheel.	Closed Circuit
<b>Dimmer LO Beam</b>	15(R/Y) and 13(R/BK)	Lever stalk in detent closest to steering wheel.	Closed Circuit
<b>Turn Switch Circuit</b>	44(LB) and 9(LG/O), 44(LB) and 3(LG/W)	Turn Switch to <b>TURN LEFT</b> and Hazard Switch to <b>OFF</b> .	Closed Circuit
	44(LB) and 5(O/LB), 44(LB) and 2(W/LB)	Turn Switch to <b>TURN RIGHT</b> and Hazard Switch to <b>OFF</b> .	Closed Circuit
<b>Hazard Switch</b>	385(W/R) and 2(W/LB), 5(O/LB), 3(LG/W), 9(LG/O)	Hazard Switch <b>ON</b> (Button depressed then released to <b>FULL OUT</b> position).	Closed Circuit
<b>Stop Lamp Feed-Through Circuit</b>	511(LG) and 9(LG/O)  511(LG) and 5(O/LB)	Turn Switch to center (No Turn) and Hazard Switch to <b>OFF</b> .	Closed Circuit

# COMPONENT TESTING: HEATER FUNCTION SELECTOR SW. 149-6

1997 F-250 HD/350/SUPER DUTY

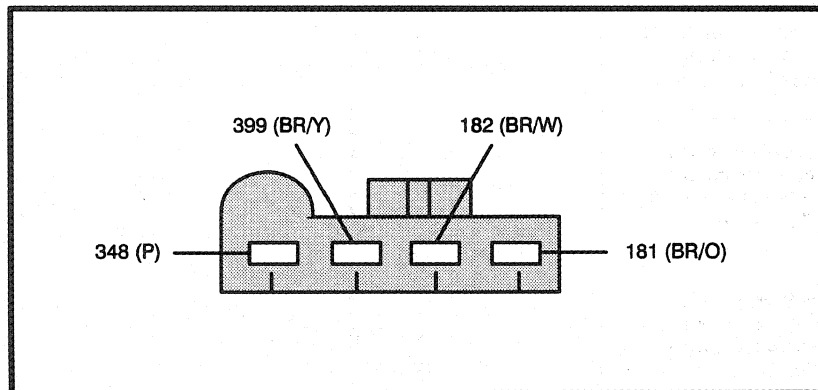
## SCHEMATIC



## COMPONENT TESTING PROCEDURE

TO TEST	Connect Self-Powered Test Lamp or Ohmmeter to Terminals	Move Switch to These Positions	A Good Switch Will Indicate
Heater Function Selector Switch	399 (BR/Y) and 181 (BR/O)	Off Vent Floor Mix Defrost	Open Circuit Closed Circuit Closed Circuit Closed Circuit
	182 (BR/W) and 348 (P)	Any Position	Open Circuit

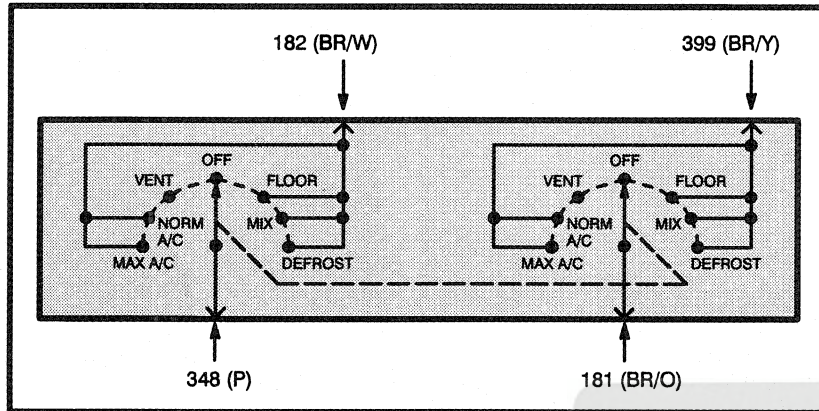
## TERMINAL LOCATIONS



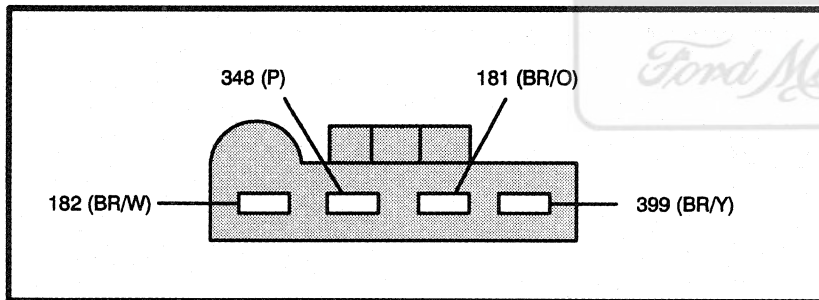
# 149-7 COMPONENT TESTING: A/C FUNCTION SELECTOR SWITCH

1997 F-250 HD/350/SUPER DUTY

## SCHEMATIC



## TERMINAL LOCATIONS



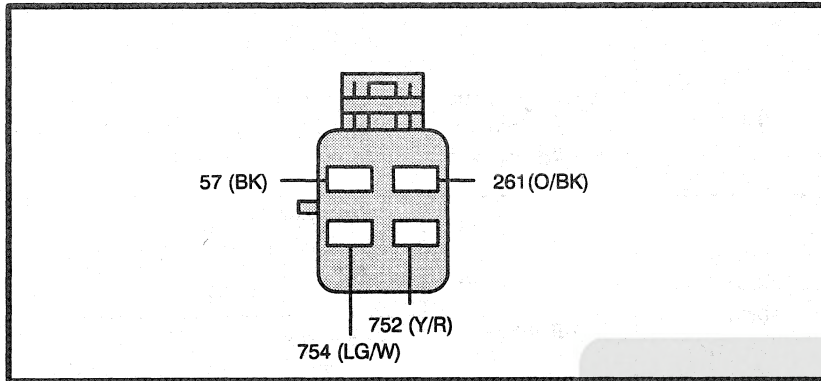
## COMPONENT TESTING PROCEDURE

TO TEST	Connect Self-Powered Test Lamp or Ohmmeter to Terminals	Move Switch to These Positions	A Good Switch Will Indicate
A/C Clutch Circuit	182 (BR/W) and 348 (P)	Off Max A/C Norm A/C Vent Floor Mix Defrost	Open Circuit Closed Circuit Closed Circuit Open Circuit Open Circuit Closed Circuit Closed Circuit
Blower Motor Circuit	399 (BR/Y) and 181 (BR/O)	Off All other positions	Open Circuit Closed Circuit

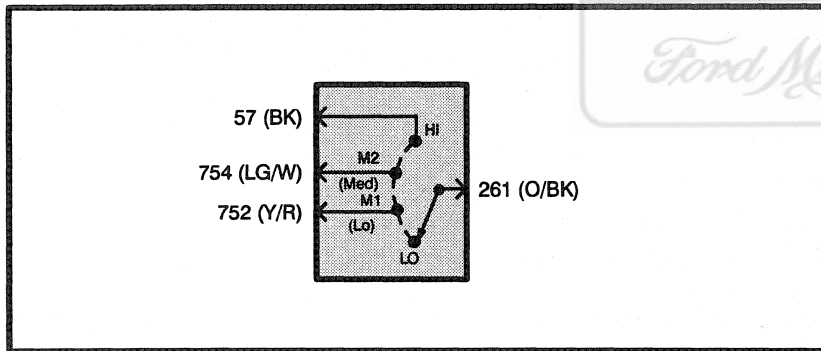
# COMPONENT TESTING: BLOWER MOTOR SWITCH 149-8

1997 F-250 HD/350/SUPER DUTY

## TERMINAL LOCATIONS



## SCHEMATIC



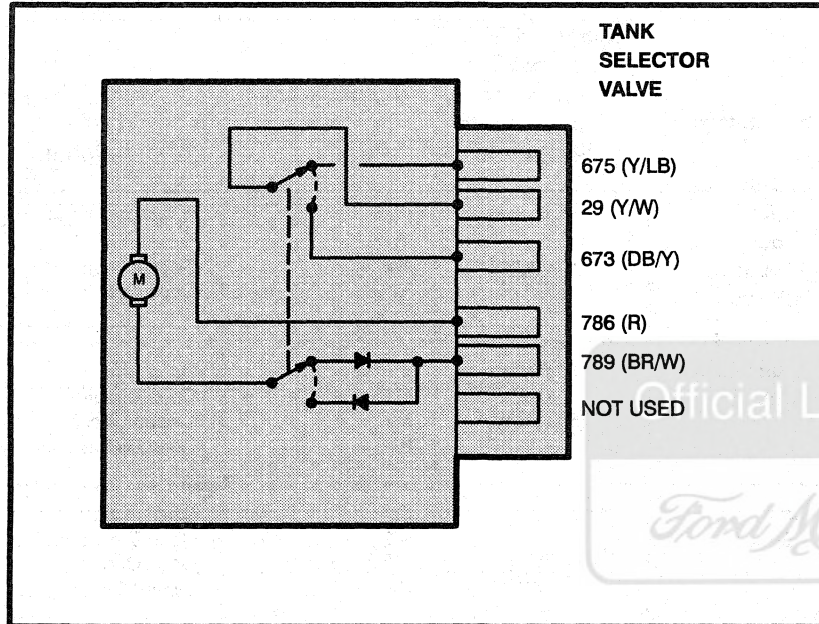
## COMPONENT TESTING PROCEDURE

TO TEST	Connect Self-Powered Test Lamp or Ohmmeter to Terminals	Move Switch to These Positions	A Good Switch Will Indicate
Medium-Low Speed	261 (O/BK) and 752 (Y/R)	Lo M1 M2 Hi	Open Circuit Closed Circuit Open Circuit Open Circuit
Medium Speed	261 (O/BK) and 754 (LG/W)	Lo M1 M2 Hi	Open Circuit Open Circuit Closed Circuit Open Circuit
High Speed	261 (O/BK) and 57 (BK)	Lo M1 M2 Hi	Open Circuit Open Circuit Open Circuit Closed Circuit

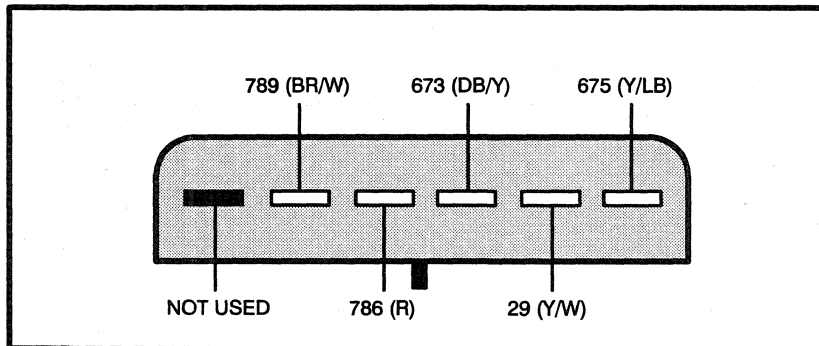
# 149-9 COMPONENT TESTING: TANK SELECTOR VALVE (DIESEL ONLY)

1997 F-250 HD/350/SUPER DUTY

## SCHEMATIC



## TERMINAL LOCATIONS



## COMPONENT TESTING PROCEDURE

TO TEST	Briefly Apply 12 V Power to Terminals	Connect Self-Powered Test Lamp or Ohmmeter to Terminals	A Good Switch Will Indicate
Rear Tank Circuit	789 (BR/W) (+) and 786 (R) (-)	29 (Y/W) and 675 (Y/LB)	Closed Circuit
		29 (Y/W) and 673 (DB/Y)	Open Circuit
Front Tank Circuit	786 (R) (+) and 789 (BR/W) (-)	29 (Y/W) and 675 (Y/LB)	Open Circuit
		29 (Y/W) and 673 (DB/Y)	Closed Circuit

Check that source and return valve transfer between front and rear positions.

**NOTE:** A brief "zip" sound can be heard as the valve transfers.



# NOTES 149-10

1997 F-250 HD/350/SUPER DUTY

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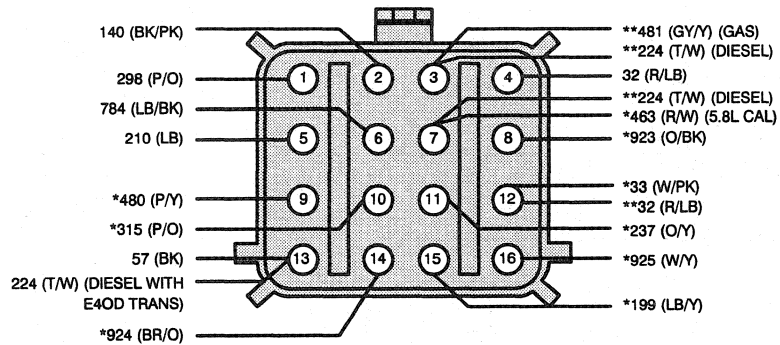
*Ford Motor Company*



# IN-LINE CONNECTOR FACES 150-2

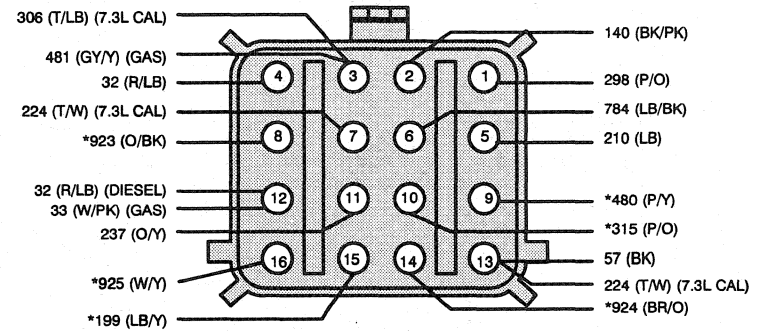
1997 F-250 HD/350/SUPER DUTY

**12A581**



**C103M**

**15525**



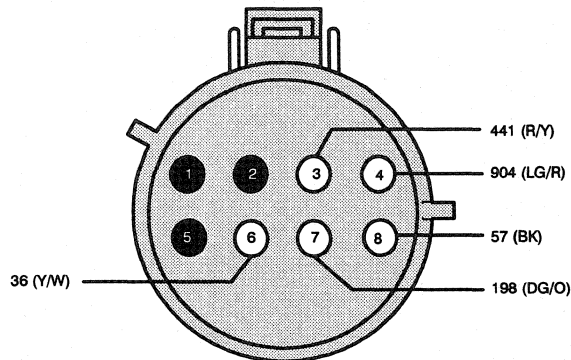
**C103F**

\* WITH E4OD TRANSMISSION  
\*\* WITH MANUAL TRANSMISSION

Official Licensed Product

*Ford Motor Company*

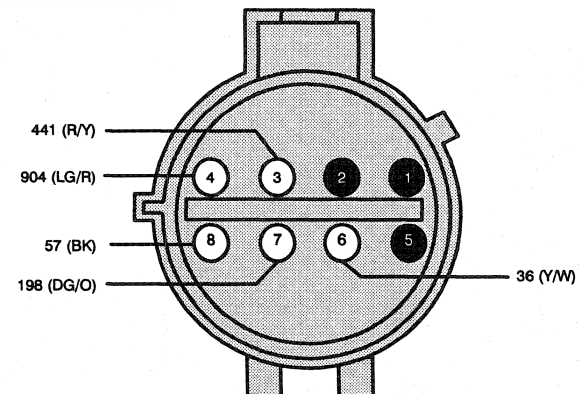
**14305**



**C108M**

**TURBO DIESEL**

**12A581**

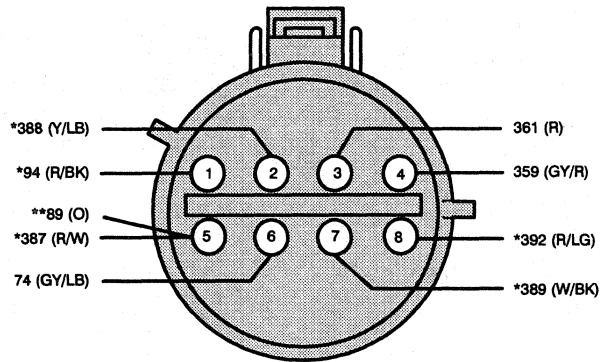


**C108F**

# 150-3 IN-LINE CONNECTOR FACES

1997 F-250 HD/350/SUPER DUTY

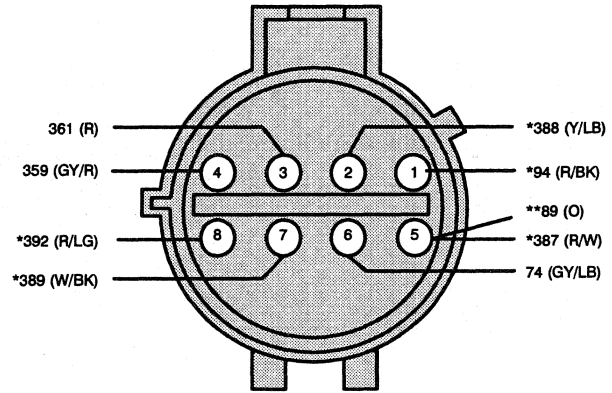
12A581



C110M

\* CALIFORNIA EXCEPT SUPER DUTY  
\*\* 49 STATES OR SUPER DUTY

15525



C110F

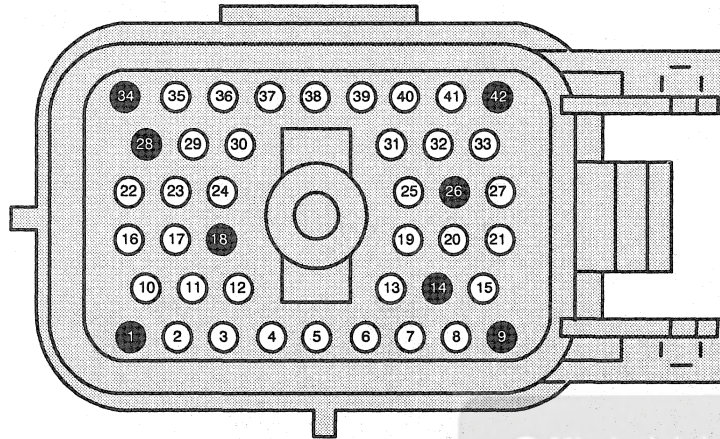
*Ford Motor Company*

# IN-LINE CONNECTOR FACES 150-4

1997 F-250 HD/350/SUPER DUTY

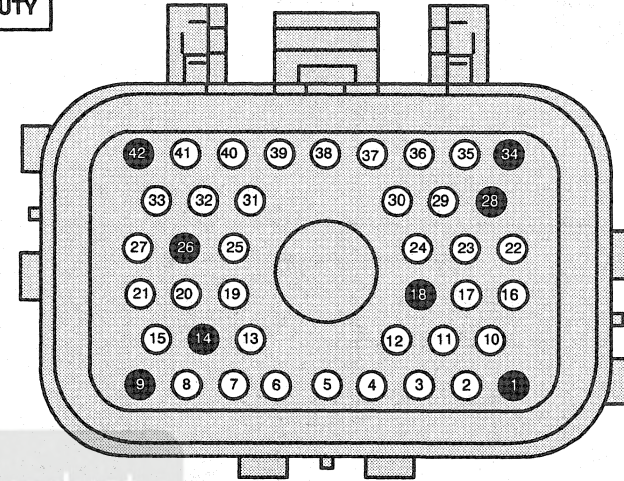
12A581

\* CALIFORNIA EXCEPT SUPER DUTY



C138M

PIA



C138F

DIESEL

Official Licensed Product

Ford Motor Company

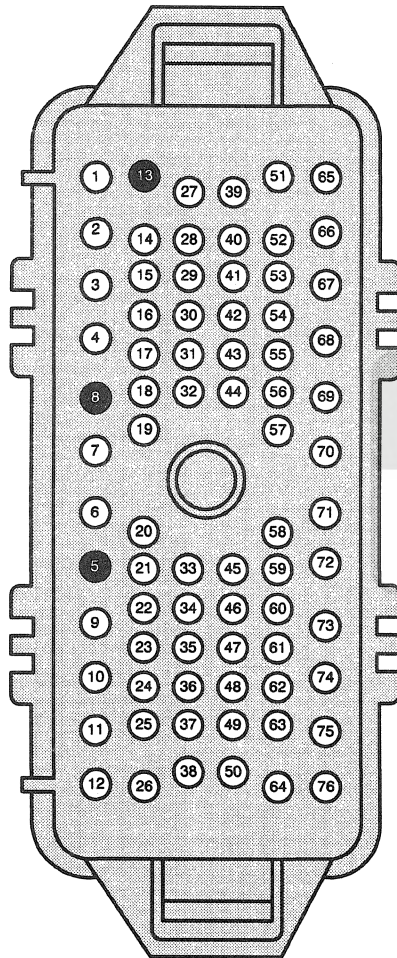
PIN	CIRCUIT	PIN	CIRCUIT	PIN	CIRCUIT	PIN	CIRCUIT	PIN	CIRCUIT	PIN	CIRCUIT
1	-	18	-	35	16 (R/LG)	1	-	18	-	35	16 (R/LG)
2	555 (T)	19	359 (GY/R)	36	640 (R/Y)	2	555 (T)	19	359 (GY/R)	36	640 (R/Y)
3	556 (W)	20	553 (P/LB)	37	643 (R)	3	556 (W)	20	553 (P/LB)	37	643 (R)
4	561 (T/R)	21	351 (BR/W)	38	41 (BK/LB)	4	561 (T/R)	21	351 (BR/W)	38	41 (BK/LB)
5	557 (BR/Y)	22	812 (DB/LG)	39	795 (DG)	5	557 (BR/Y)	22	535 (LB/R)	39	795 (DG)
6	558 (BR/LB)	23	318 (GY/R)	40	*1054 (GY/BK)	6	558 (BR/LB)	23	318 (GY/R)	40	*1054 (GY/BK)
7	559 (T/BK)	24	361 (R)	41	*339 (GY)	7	559 (T/BK)	24	361 (R)	41	*339 (GY)
8	560 (LG/O)	25	552 (Y/R)	42	-	8	560 (LG/O)	25	552 (Y/R)	42	-
9	-	26	-			9	-	26	-		
10	562 (LB)	27	*466 (PK/O)			10	562 (LB)	27	*466 (PK/O)		
11	878 (PK/Y)	28	-			11	878 (PK/Y)	28	-		
12	1087 (O)	29	737 (W/LB)			12	1087 (O)	29	737 (W/LB)		
13	1086 (P/O)	30	31 (W/R)			13	1086 (P/O)	30	31 (W/R)		
14	-	31	39 (R/W)			14	-	31	39 (R/W)		
15	48	32	1031 (LG)			15	48	32	1031 (LG)		
16	574 (BK/PK)	33	796 (LB)			16	574 (BK/PK)	33	796 (LB)		
17	354 (LG/R)	34	-			17	354 (LG/R)	34	-		



# IN-LINE CONNECTOR FACES 150-6

1997 F-250 HD/350/SUPER DUTY

14401



**C202F**

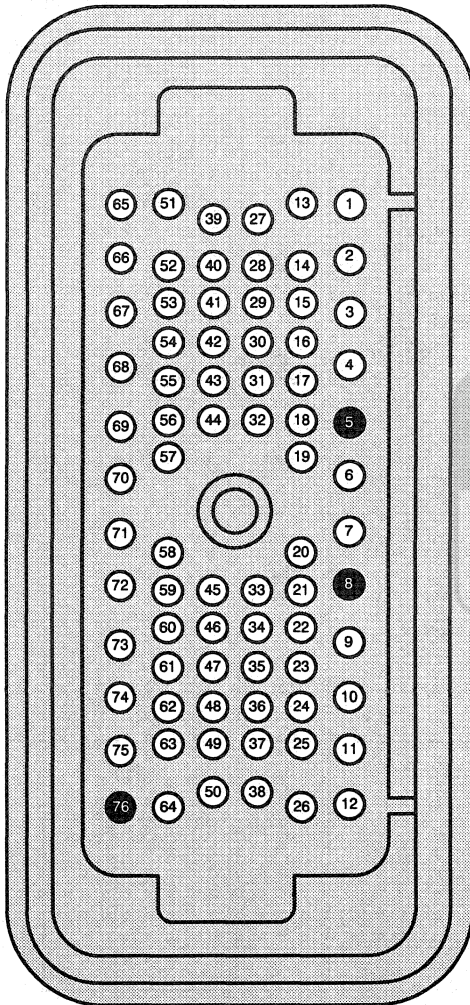
PIN	CIRCUIT	PIN	CIRCUIT	PIN	CIRCUIT
1	16 (R/LG)	28	31 (W/R)	55	*640 (R/Y)
2	37 (Y)	29	33 (W/PK)	56	1 (DB)
3	37 (Y)	30	932 (GY/W)	57	65 (DG)
4	37 (Y)	31	39 (R/W)	58	107 (P)
5	-	32	298 (P/O)		*351 (BK/W)
6	38 (BK/O)	33	210 (LB)	59	9 (LG/O)
7	38 (BK/O)	34	224 (T/W)	60	162 (LG/R)
8	-	35	398 (BK/Y)	61	914 (T/O)
9	50 (R)		*41 (BK/LB)	62	915 (PK/LB)
10	687 (GY/Y)	36	*643 (R)	63	*570 (BK/W)
11	57 (BK)	37	481 (GY/Y)	64	52 (Y)
12	5 (O/LB)		*107 (P)	65	64 (DG)
13	-	38	511 (LG)	66	238 (DG/Y)
	*1031 (LG)	39	140 (BK/PK)		*464 (BK/PK)
14	676 (PK/O)	40	531 (DG/Y)	67	12 (LG/BK)
15	*308 (R/O)	41	658 (PK/LG)	68	13 (R/BK)
16	306 (T/LB)	42	904 (LG/R)	69	274 (BK/W)
17	151 (LB/BK)	43	911 (W/LG)	70	38 (BK/O)
18	901 (R/LB)	44	977 (P/W)	71	797 (LG/P)
	*355 (GY/W)	45	512 (T/LG)	72	962 (B/W)
19	10 (LG/R)	46	523 (R/PK)	73	58 (W)
	*356 (DB/LG)	47	519 (LG/BK)	74	196 (DB/O)
20	848 (DG/O)	48	*359 (GY/R)	75	56 (DB/O)
21	679 (GY/BK)	49	28 (BK/PK)	76	640 (R/Y)
22	784 (LB/BK)	50	*323 (LB/Y)		
23	2 (W/LB)	51	61 (Y/R)		
24	3 (LG/W)	52	*737 (W/LB)		
25	648 (W/PK)	53	54 (LG/Y)		
26	570 (BK/W)		***705 (LG/O)		
27	14 (B)	54	941 (BK/W)		

\* TURBO DIESEL ONLY  
 \*\* WITH DAYTIME RUNNING LAMPS  
 \*\*\* WITH KEYLESS ENTRY

# 150-7 IN-LINE CONNECTOR FACES

1997 F-250 HD/350/SUPER DUTY

12A581



**C202M**

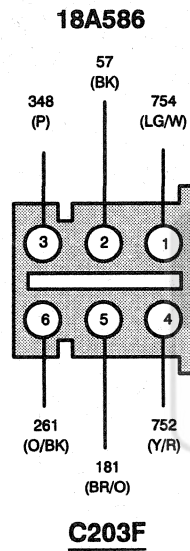
PIN	CIRCUIT	PIN	CIRCUIT	PIN	CIRCUIT
1	16 (R/LG)	27	14 (B)	52	*737 (W/LB)
2	37 (Y)	28	31 (W/R)	53	54 (LG/Y)
3	37 (Y)	29	32 (R/LB)	54	941 (BK/W)
4	37 (Y)	30	932 (GY/W)	55	*640 (R/Y)
5	-	31	39 (R/W)	56	1 (DB)
6	38 (BK/O)	32	298 (P/O)	57	65 (DG)
7	38 (BK/O)	33	210 (LB)	58	**107 (P)
8	-	34	224 (T/W)		*351 (BK/W)
9	50 (R)	35	**398 (BK/Y)	59	9 (LG/O)
10	687 (GY/Y)		*41 (BK/LB)	60	977 (P/W)
11	57 (BK)	36	*643 (R)		*162 (LG/R)
12	5 (O/LB)	37	**481 (GY/Y)		***162 (LG/R)
13	*1031 (LG)		*107 (P)	61	914 (T/O)
14	676 (PK/O)	38	511 (LG)	62	915 (PK/LB)
15	*308 (R/O)	39	140 (BK/PK)	63	*570 (BK/W)
16	306 (T/LB)	40	531 (DG/Y)	64	52 (Y)
17	151 (LB/BK)	41	658 (PK/LG)	65	64 (DG)
18	**901 (R/LB)	42	904 (LG/R)	66	**238 (DG/Y)
	*355 (GY/W)	43	911 (W/LG)		*464 (BK/PK)
19	**10 (LG/R)	44	977 (P/W)	67	12 (LG/BK)
	*356 (DB/LG)	45	512 (T/LG)	68	13 (R/BK)
20	848 (DG/O)	46	**523 (R/PK)	69	274 (BK/W)
21	679 (GY/BK)	47	**519 (LG/BK)	70	38 (BK/O)
22	784 (LB/BK)	48	*359 (GY/R)	71	797 (LG/P)
23	2 (W/LB)	49	28 (BK/PK)	72	962 (B/W)
24	3 (LG/W)	50	*323 (LB/Y)	73	58 (W)
25	648 (W/PK)	51	61 (Y/R)	74	196 (DB/O)
26	570 (BK/W)			75	56 (DB/O)
				76	-

\* TURBO DIESEL ONLY  
 \*\* GASOLINE ONLY  
 \*\*\* WITH DAYTIME RUNNING LAMPS



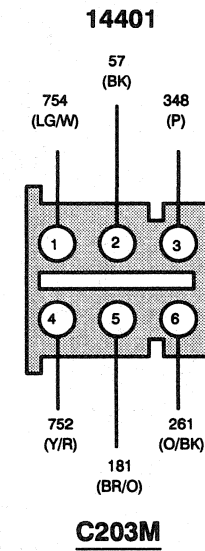
# IN-LINE CONNECTOR FACES 150-8

1997 F-250 HD/350/SUPER DUTY



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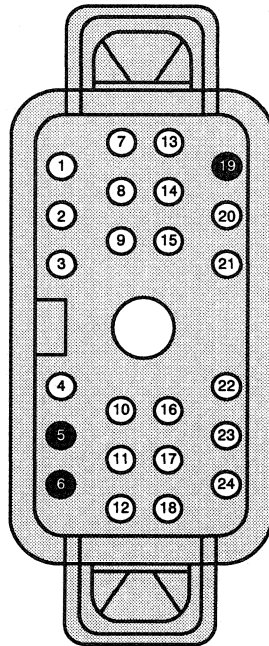
*Ford Motor Company*



# 150-9 IN-LINE CONNECTOR FACES

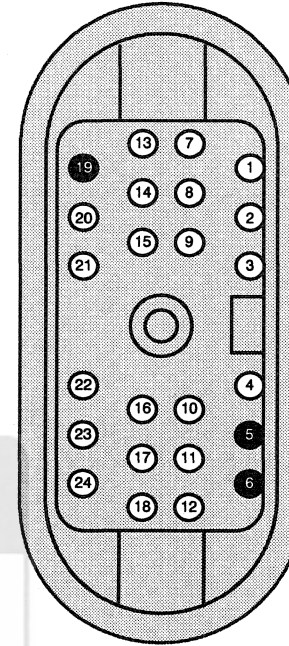
1997 F-250 HD/350 SUPER DUTY

14401



**C205F**

14405



**C205M**

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PIN	CIRCUIT	PIN	CIRCUIT
1	274 (BK/W)	12	52 (Y)
2	43 (DB)	13	789 (BR/W)
3	535 (LB/R)	14	962 (BR/W)
4	**673 (DB/Y) *29 (Y/W)	15	664 (Y/LG)
5	-	16	523 (R/PK)
6	-	17	9 (LG/O)
7	786 (R)	18	64 (DG)
8	298 (P/O)	19	-
9	599 (PK/LG)	20	511 (LG)
10	519 (LG/BK)	21	57 (BK)
11	5 (O/LB)	22	675 (Y/LB)
		23	14 (BR)
		24	140 (BK/PK)

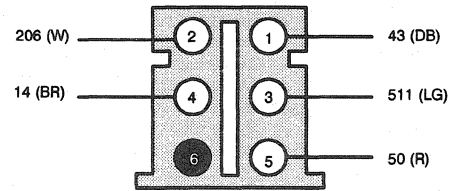
\* DIESEL ONLY  
\*\* GASOLINE ONLY

PIN	CIRCUIT	PIN	CIRCUIT
1	274 (BK/W)	13	789 (BR/W)
2	43 (DB)	14	962 (BR/W)
3	535 (LB/R)		-
4	**673 (DB/Y) *29 (Y/W)	15	664 (Y/LG)
5	-	16	523 (R/PK)
6	-	17	9 (LG/O)
7	786 (R)	18	64 (DG)
8	298 (W/P)	19	-
9	599 (PK/LG)	20	511 (LG)
10	519 (LG/BK)	21	57 (BK)
11	5 (O/LB)	22	675 (Y/LB)
12	52 (Y)	23	14 (BR)
		24	140 (BK/PK)

# IN-LINE CONNECTOR FACES 150-10

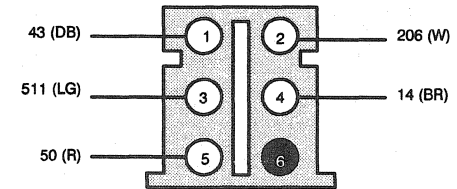
1997 F-250 HD/350/SUPER DUTY

14A348



C210F

14401



C210M

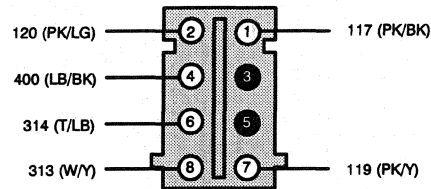
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*Ford Motor Company*

# 150-11 IN-LINE CONNECTOR FACES

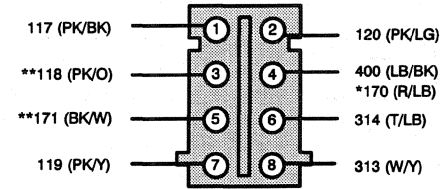
1997 F-250 HD/350/SUPER DUTY

**14A265**



**C213F**

**14A509**



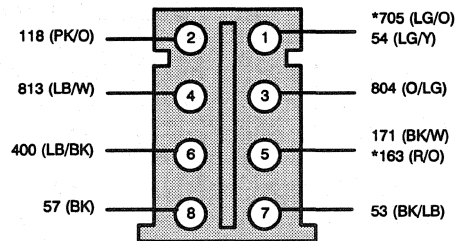
**C213M**

\* W/CREW CAB  
\*\* W/O RKE

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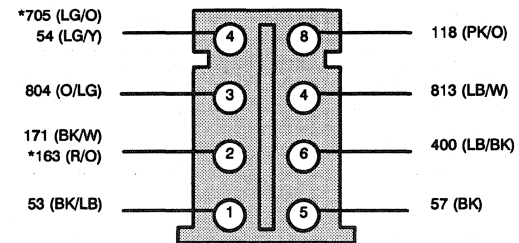
*Ford Motor Company*

**14A509  
\*\*19A123**



**C214F**

**14A504**



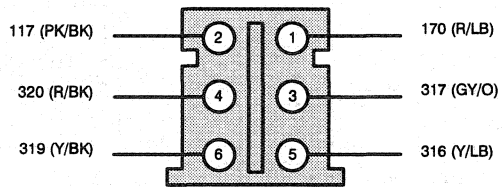
**C214M**

\* W/RKE  
\*\* W/O POWER DOOR LOCKS  
AND POWER WINDOWS

# IN-LINE CONNECTOR FACES 150-12

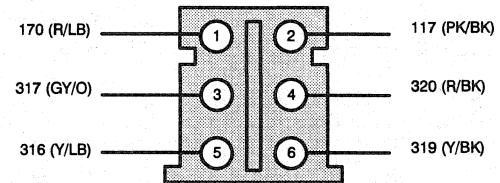
1997 F-250 HD/350/SUPER DUTY

**14A509**



**C215F**

**14A504**

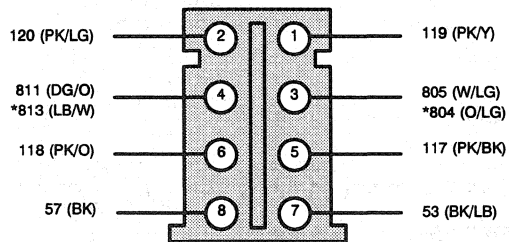


**C215M**

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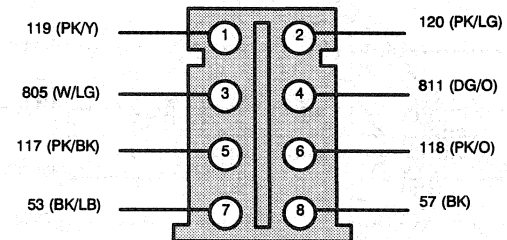
*Ford Motor Company*

**14A265  
\*19A123**



**C228F**

**14401**



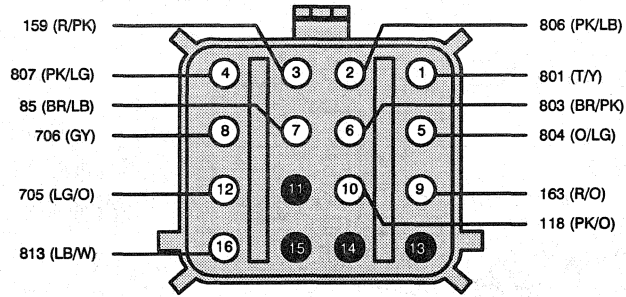
**C228M**

**\* W/O POWER DOOR LOCKS  
AND POWER WINDOWS**

# 150-13 IN-LINE CONNECTOR FACES

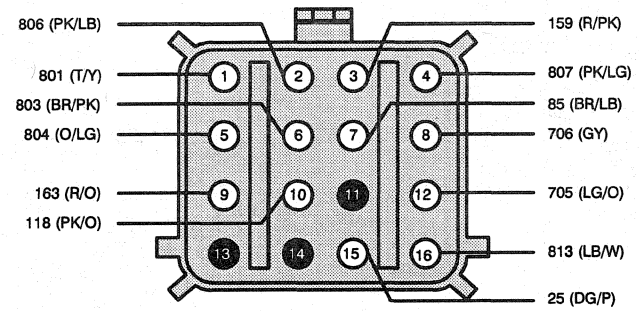
1997 F-250 HD/350/SUPER DUTY

14401



C229F

14A504

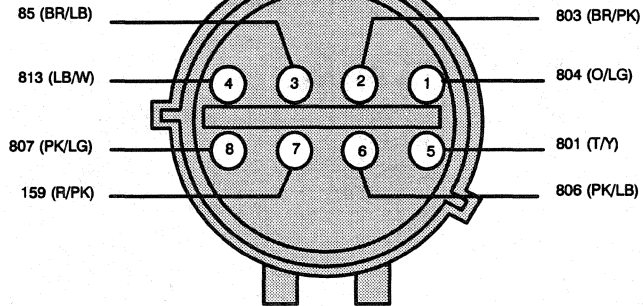


C229M

Official **WITH KEYLESS ENTRY** product

*Ford Motor Company*

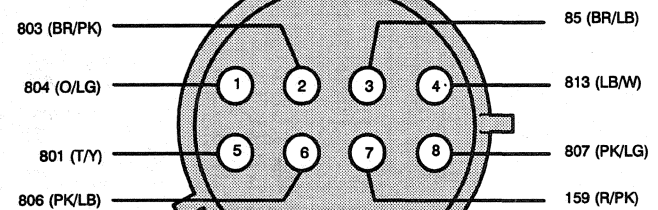
14401



C235F

WITHOUT KEYLESS ENTRY

14A504

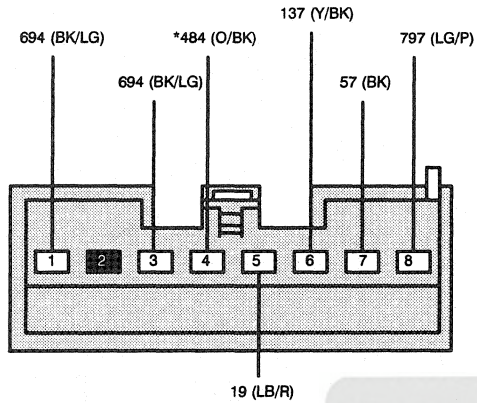


C235M

# IN-LINE CONNECTOR FACES 150-14

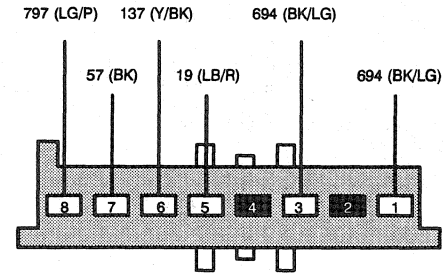
1997 F-250 HD/350/SUPER DUTY

14401



C257F

19B113



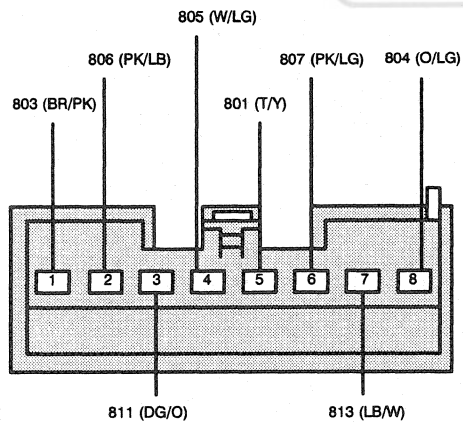
C257M

PREMIUM SOUND

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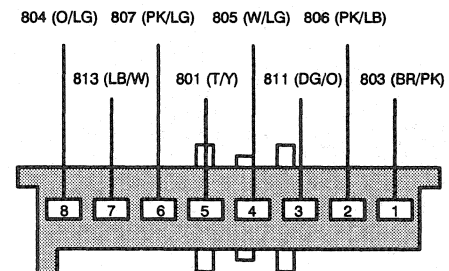
*Ford Motor Company*

14401



C258F

19B113



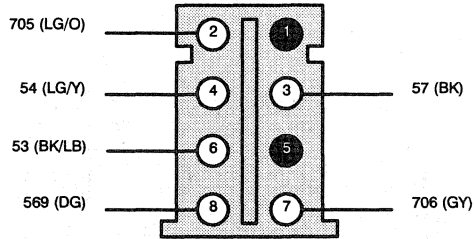
C258M

PREMIUM SOUND

# 150-15 IN-LINE CONNECTOR FACES

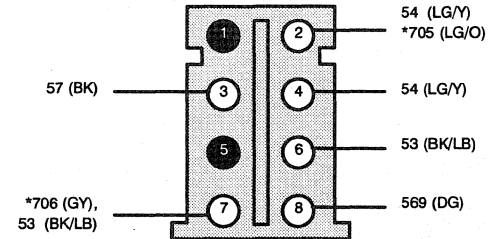
1997 F-250 HD/350/SUPER DUTY

**14334**



**C300F**

**14A504**



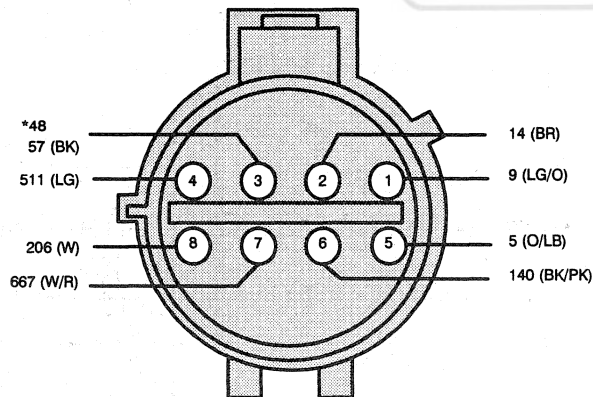
**C300M**

\* WITH KEYLESS ENTRY ONLY

Official Licensed Product

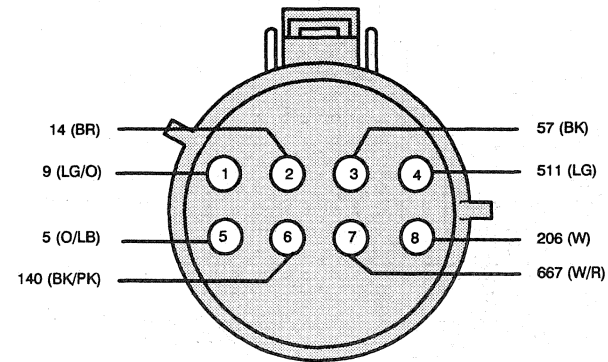
*Ford Motor Company*

**13A409**



**C401F**

**14405**



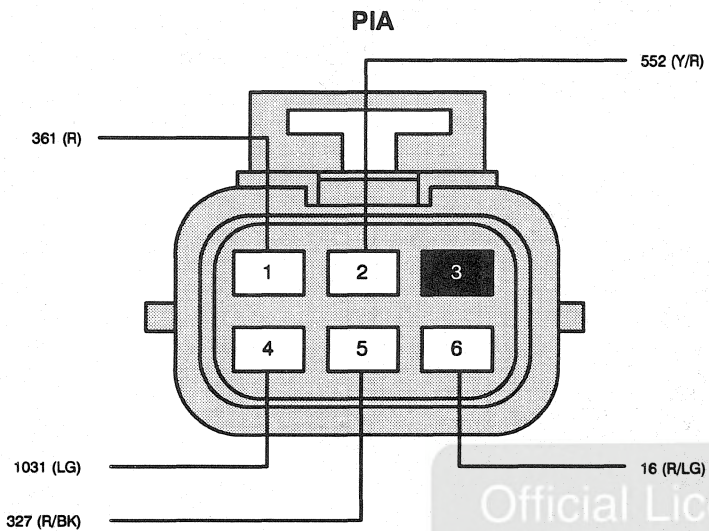
**C401M**

\* CHASSIS CAB



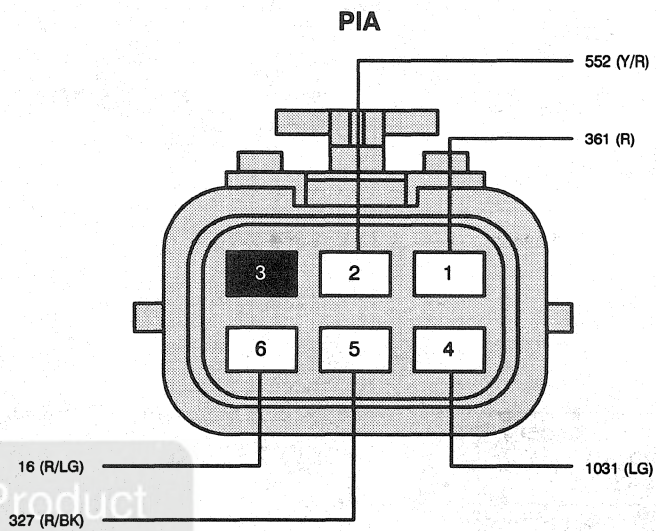
# IN-LINE CONNECTOR FACES 150-16

1997 F-250 HD/350/SUPER DUTY

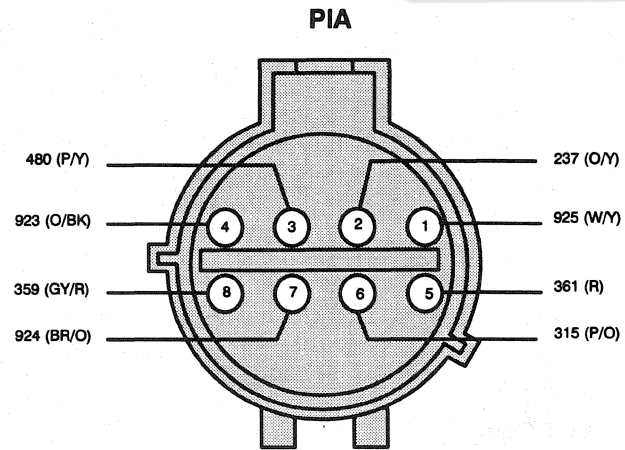


**C1047F**

**DIESEL**

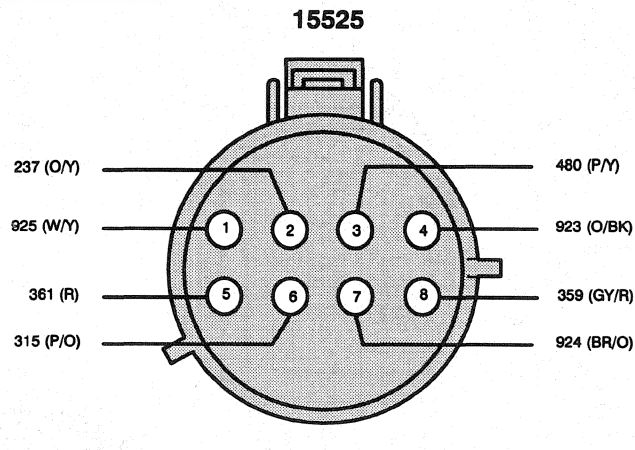


**C1047M**



**C1061F**

**7.3L DIESEL WITH E4OD TRANSMISSION**

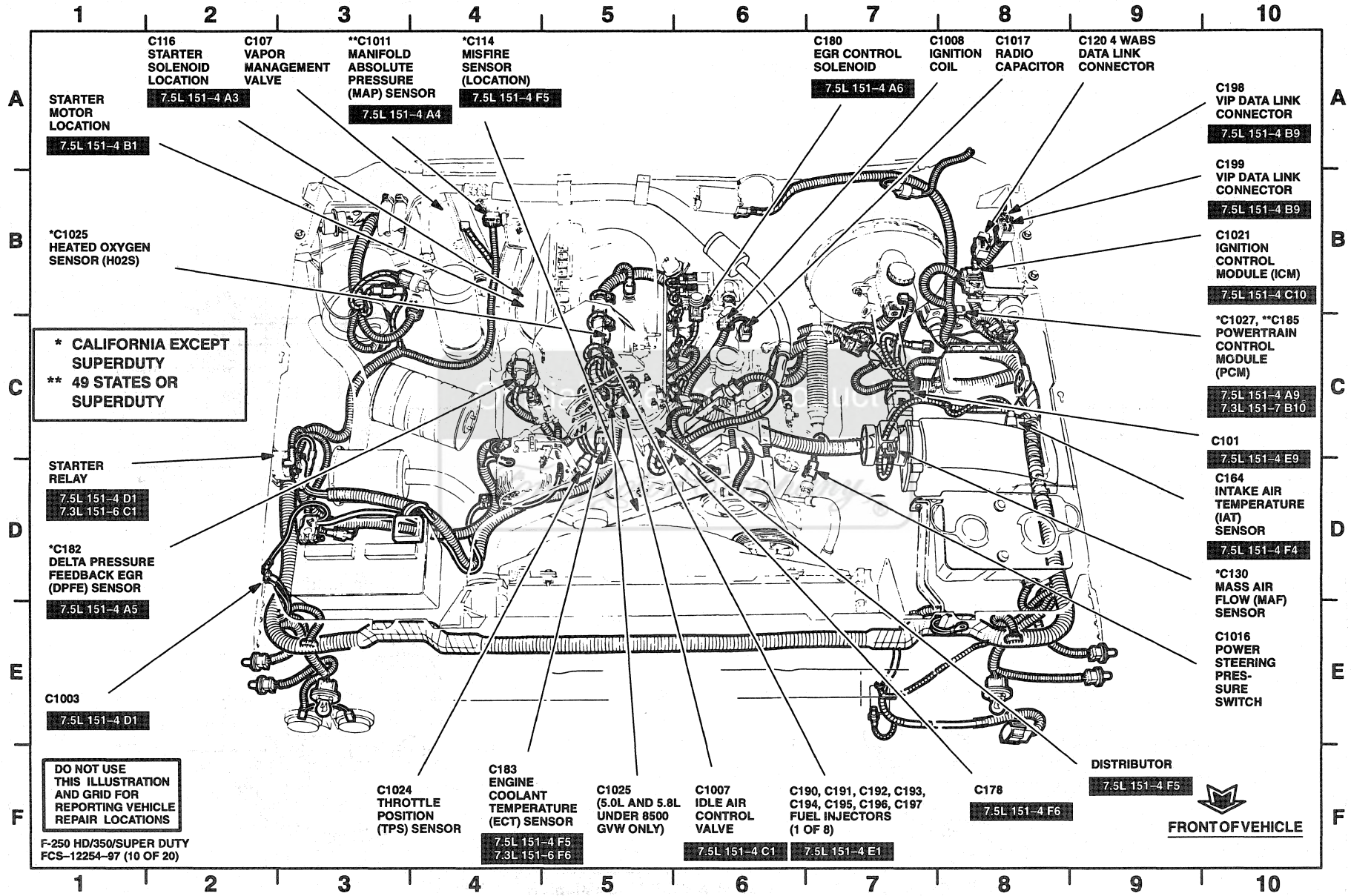


**C1061M**

Official Licensed Product  
*Ford Motor Company*

# 151-1 COMPONENT LOCATION VIEWS

1997 F-250 HD/350/SUPER DUTY

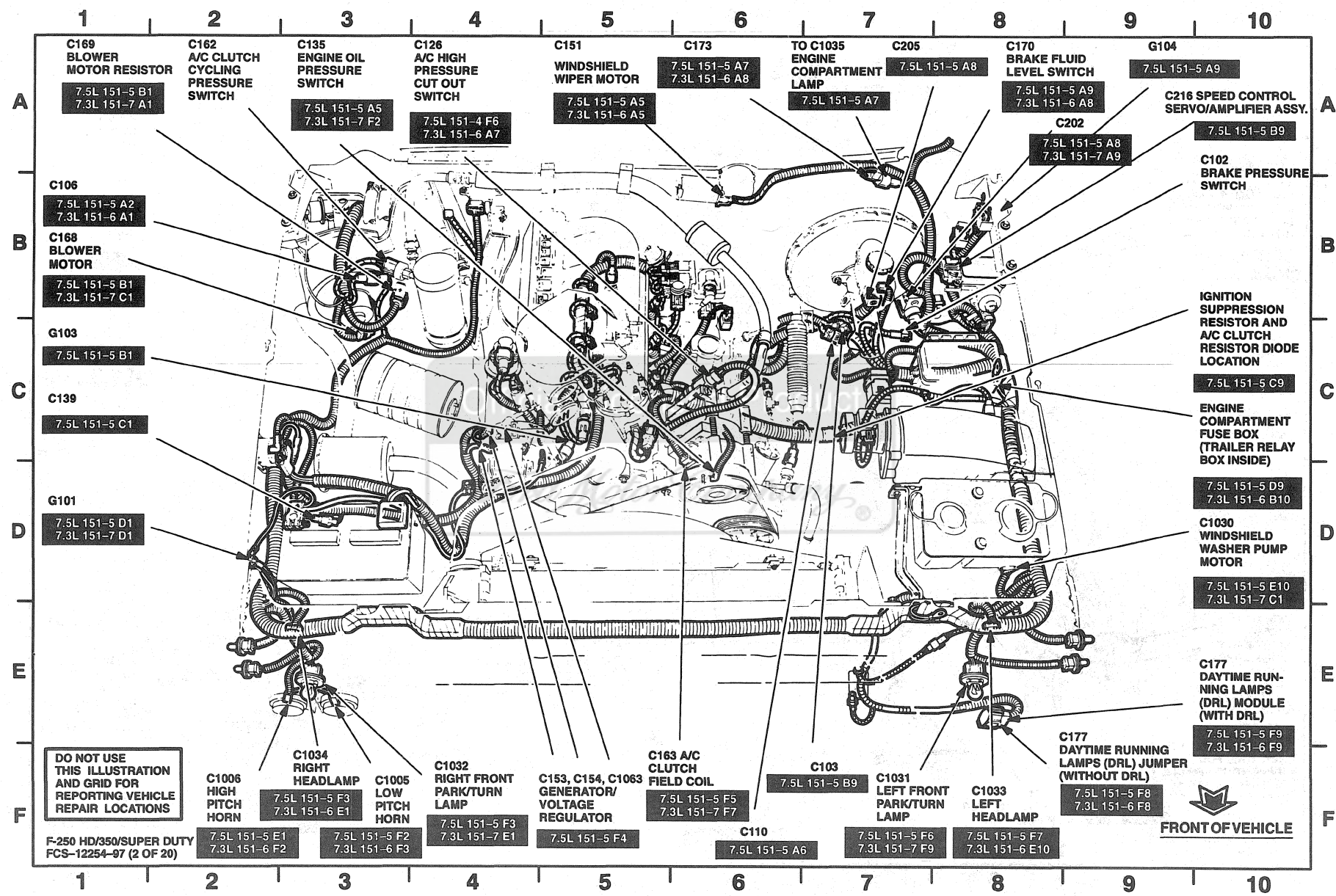


- 1** C116 STARTER SOLENOID LOCATION 7.5L 151-4 A3
- 2** C107 VAPOR MANAGEMENT VALVE 7.5L 151-4 A3
- 3** \*\*C1011 MANIFOLD ABSOLUTE PRESSURE (MAP) SENSOR 7.5L 151-4 A4
- 4** \*C114 MISFIRE SENSOR (LOCATION) 7.5L 151-4 F5
- 5** C180 EGR CONTROL SOLENOID 7.5L 151-4 A6
- 6** C1008 IGNITION COIL
- 7** C1017 RADIO CAPACITOR
- 8** C120 4 WABS DATA LINK CONNECTOR
- 9** C198 VIP DATA LINK CONNECTOR 7.5L 151-4 B9
- 10** C199 VIP DATA LINK CONNECTOR 7.5L 151-4 B9
- A** STARTER MOTOR LOCATION 7.5L 151-4 B1
- B** \*C1025 HEATED OXYGEN SENSOR (HO2S)
- C** \* CALIFORNIA EXCEPT SUPERDUTY  
\*\* 49 STATES OR SUPERDUTY
- D** STARTER RELAY 7.5L 151-4 D1, 7.3L 151-6 C1
- E** \*C182 DELTA PRESSURE FEEDBACK EGR (DPFE) SENSOR 7.5L 151-4 A5
- F** C1003 7.5L 151-4 D1
- A** C1021 IGNITION CONTROL MODULE (ICM) 7.5L 151-4 C10
- B** \*C1027, \*\*C185 POWERTRAIN CONTROL MODULE (PCM) 7.5L 151-4 A9, 7.3L 151-7 B10
- C** C101 7.5L 151-4 E9
- D** C164 INTAKE AIR TEMPERATURE (IAT) SENSOR 7.5L 151-4 F4
- E** \*C130 MASS AIR FLOW (MAF) SENSOR
- F** C1016 POWER STEERING PRESSURE SWITCH
- 1** DO NOT USE THIS ILLUSTRATION AND GRID FOR REPORTING VEHICLE REPAIR LOCATIONS
- 2** F-250 HD/350/SUPER DUTY FCS-12254-97 (10 OF 20)
- 3** C1024 THROTTLE POSITION (TPS) SENSOR
- 4** C183 ENGINE COOLANT TEMPERATURE (ECT) SENSOR 7.5L 151-4 F5, 7.3L 151-6 F6
- 5** C1025 (5.0L AND 5.8L UNDER 8500 GVW ONLY)
- 6** C1007 IDLE AIR CONTROL VALVE 7.5L 151-4 C1
- 7** C190, C191, C192, C193, C194, C195, C196, C197 FUEL INJECTORS (1 OF 8) 7.5L 151-4 E1
- 8** C178 7.5L 151-4 F6
- 9** DISTRIBUTOR 7.5L 151-4 F5
- 10** FRONT OF VEHICLE

5.8L ENGINE (1 OF 3)

# COMPONENT LOCATION VIEWS 151-2

1997 F-250 HD/350/SUPER DUTY



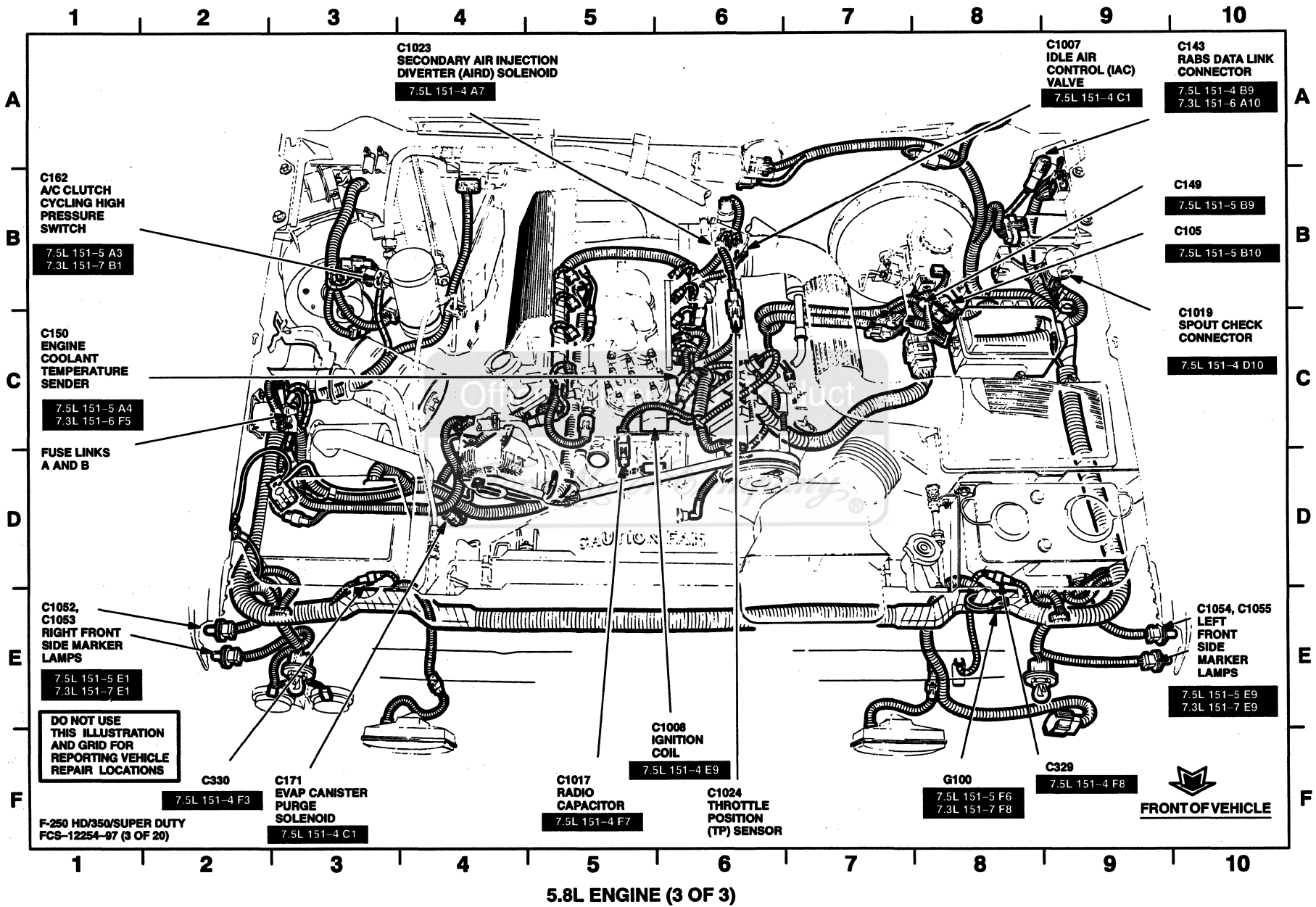
5.8L ENGINE (2 OF 3)

DO NOT USE THIS ILLUSTRATION AND GRID FOR REPORTING VEHICLE REPAIR LOCATIONS

F-250 HD/350/SUPER DUTY FCS-12254-97 (2 OF 20)

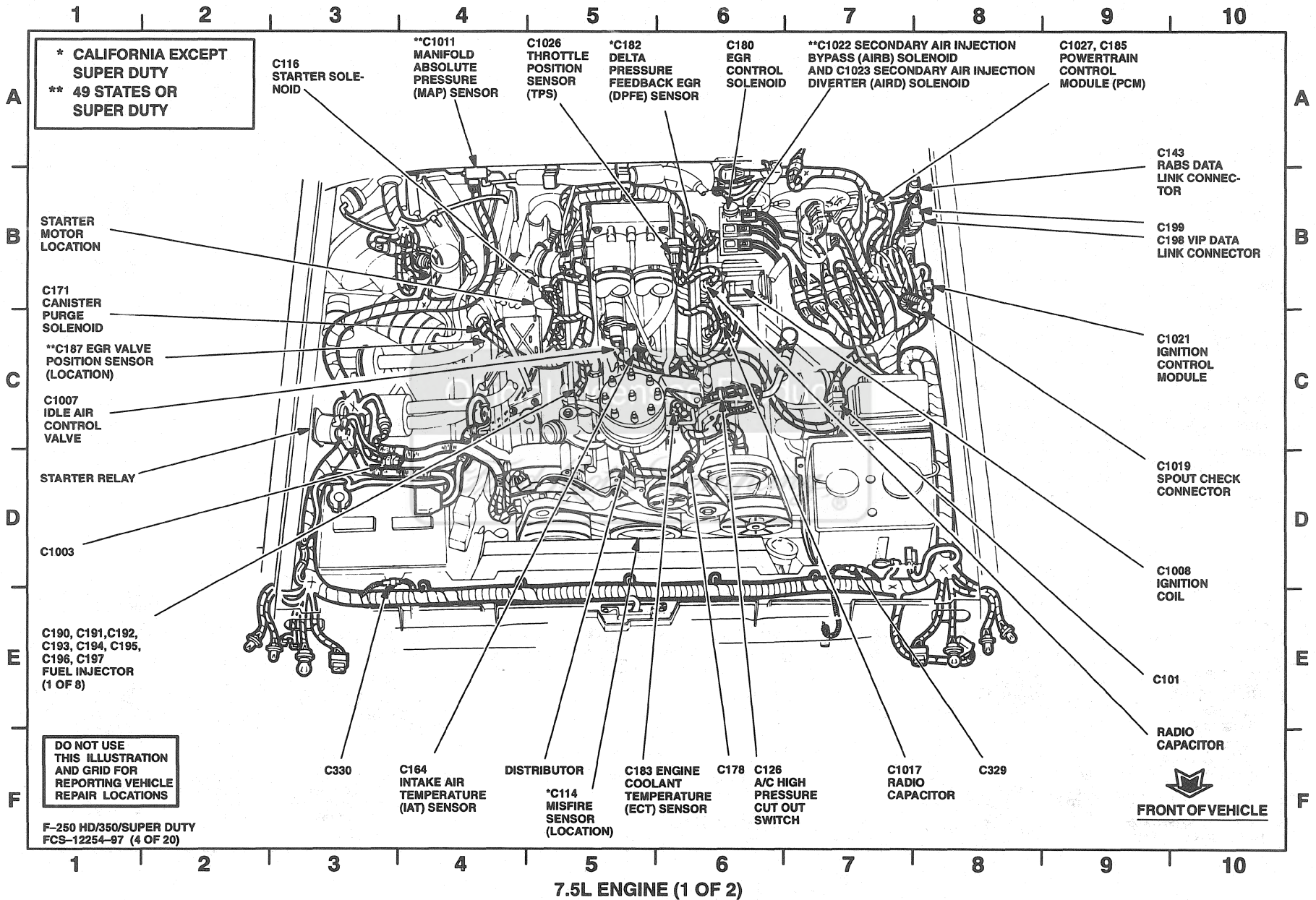
# 151-3 COMPONENT LOCATION VIEWS

1997 F-250 HD/350/SUPER DUTY



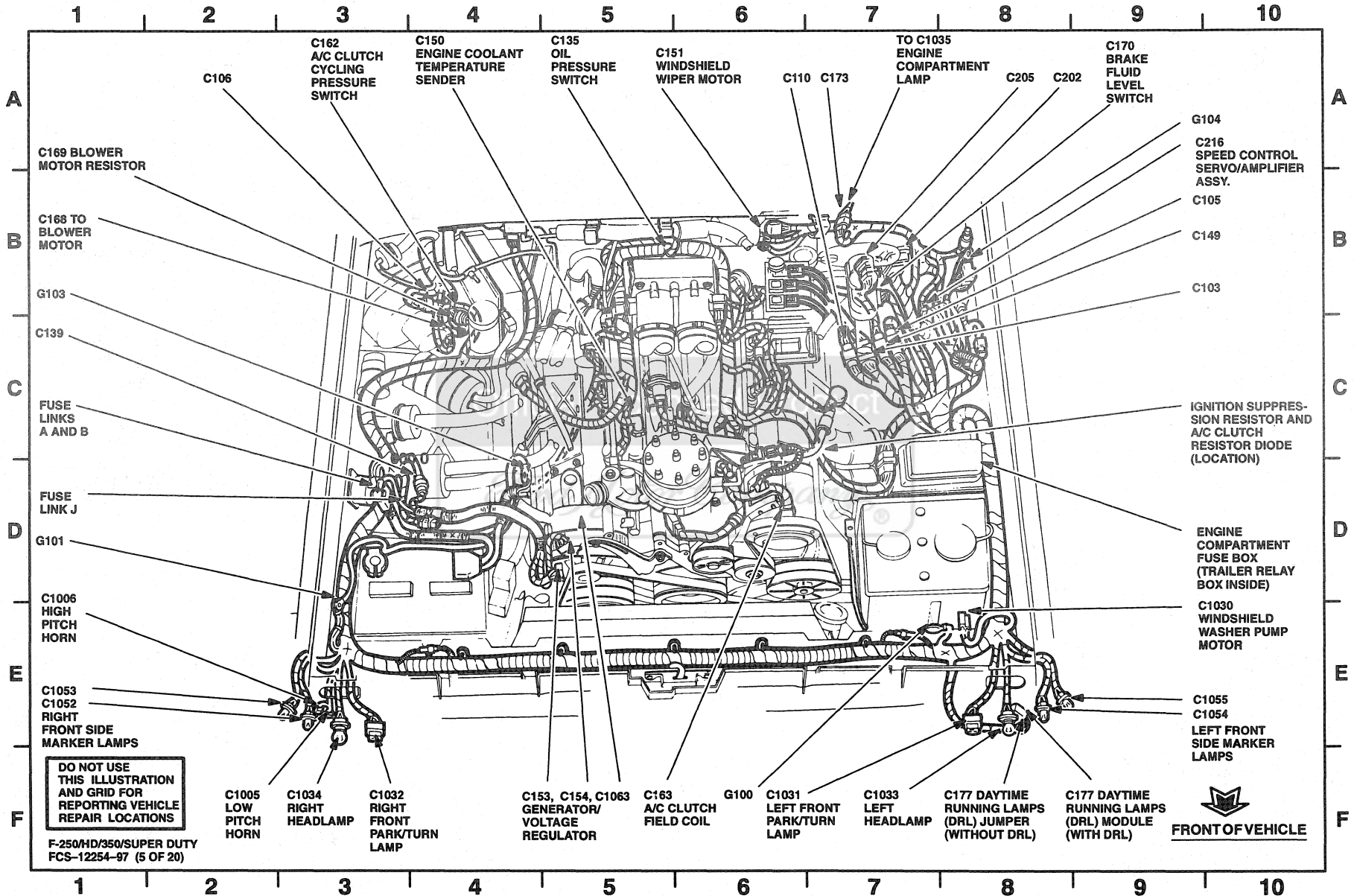
# COMPONENT LOCATION VIEWS 151-4

1997 F-250 HD/350/SUPER DUTY



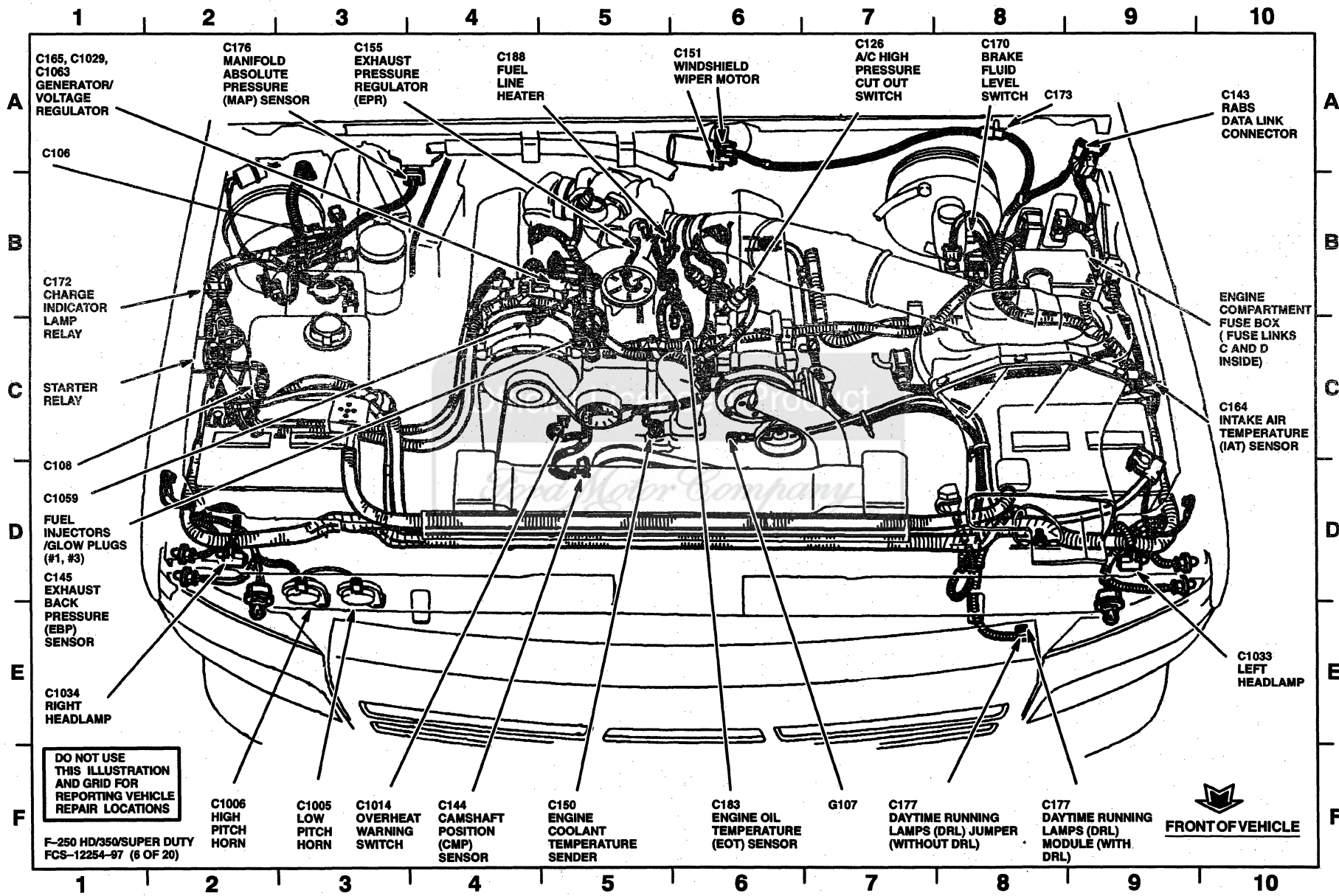
# 151-5 COMPONENT LOCATION VIEWS

1997 F-250 HD/350/SUPER DUTY



# COMPONENT LOCATION VIEWS 151-6

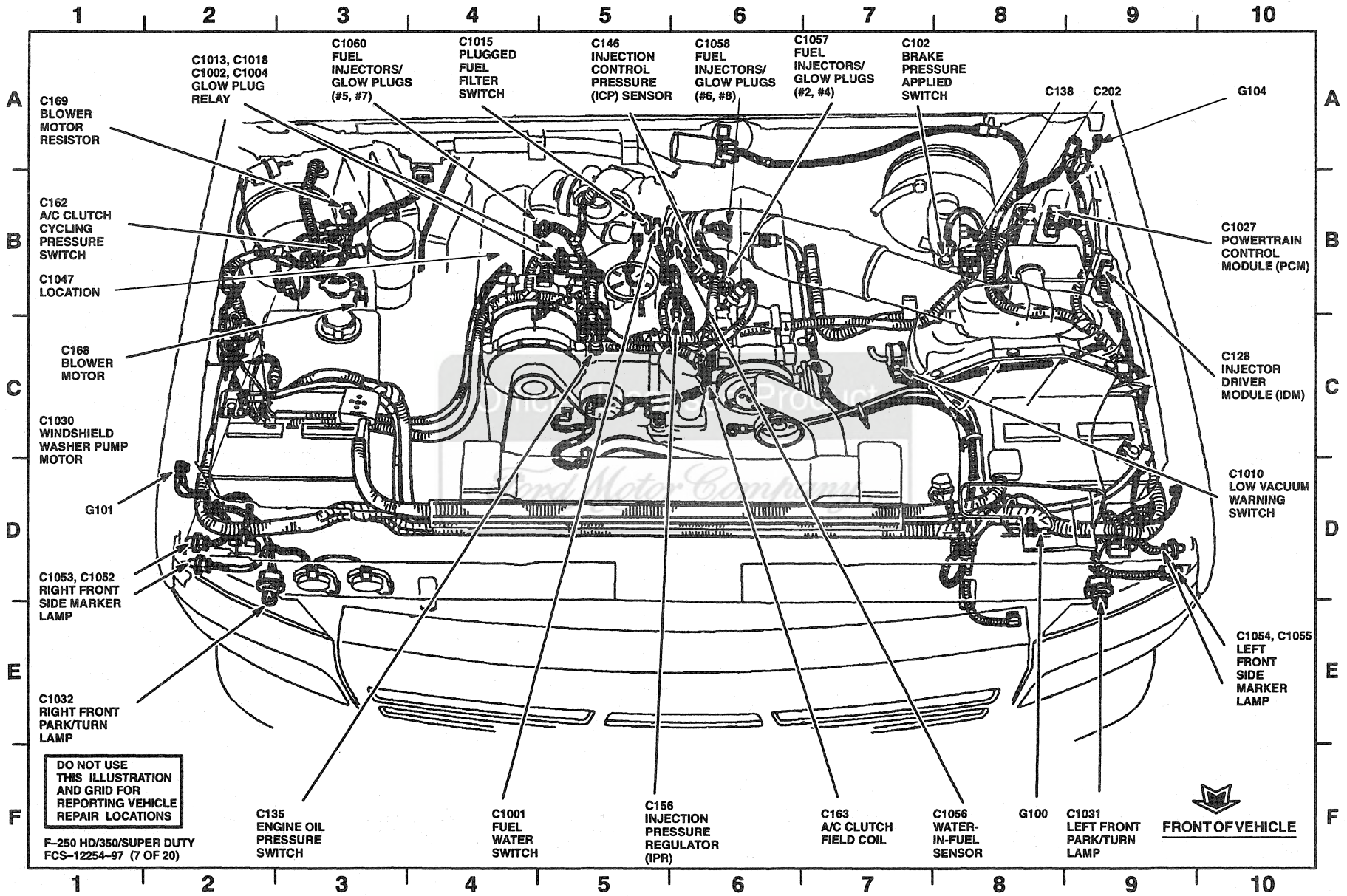
1997 F-250 HD/350/SUPER DUTY



7.3L DI DIESEL ENGINE (1 OF 2)

# 151-7 COMPONENT LOCATION VIEWS

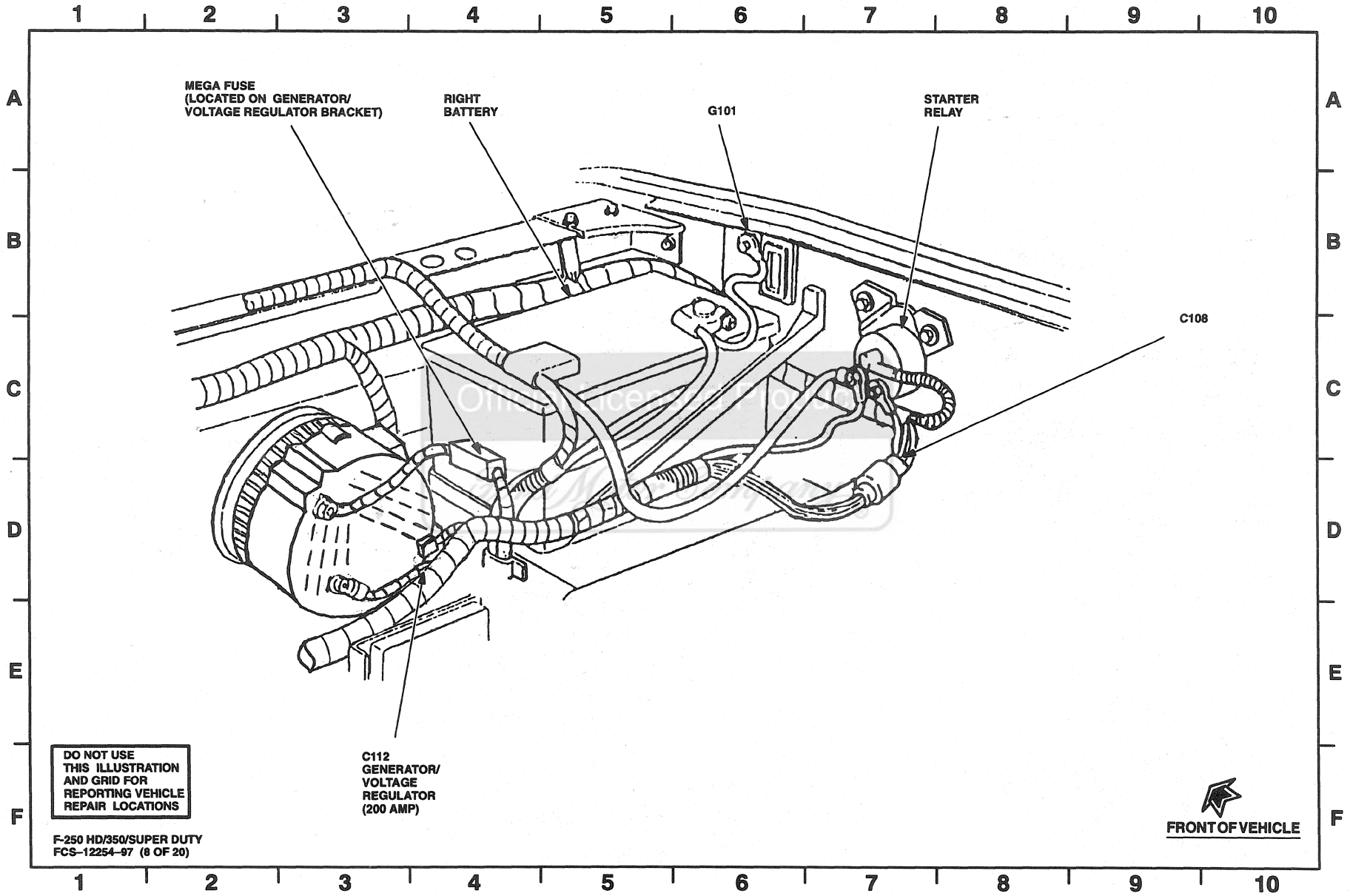
1997 F-250 HD/350/SUPER DUTY





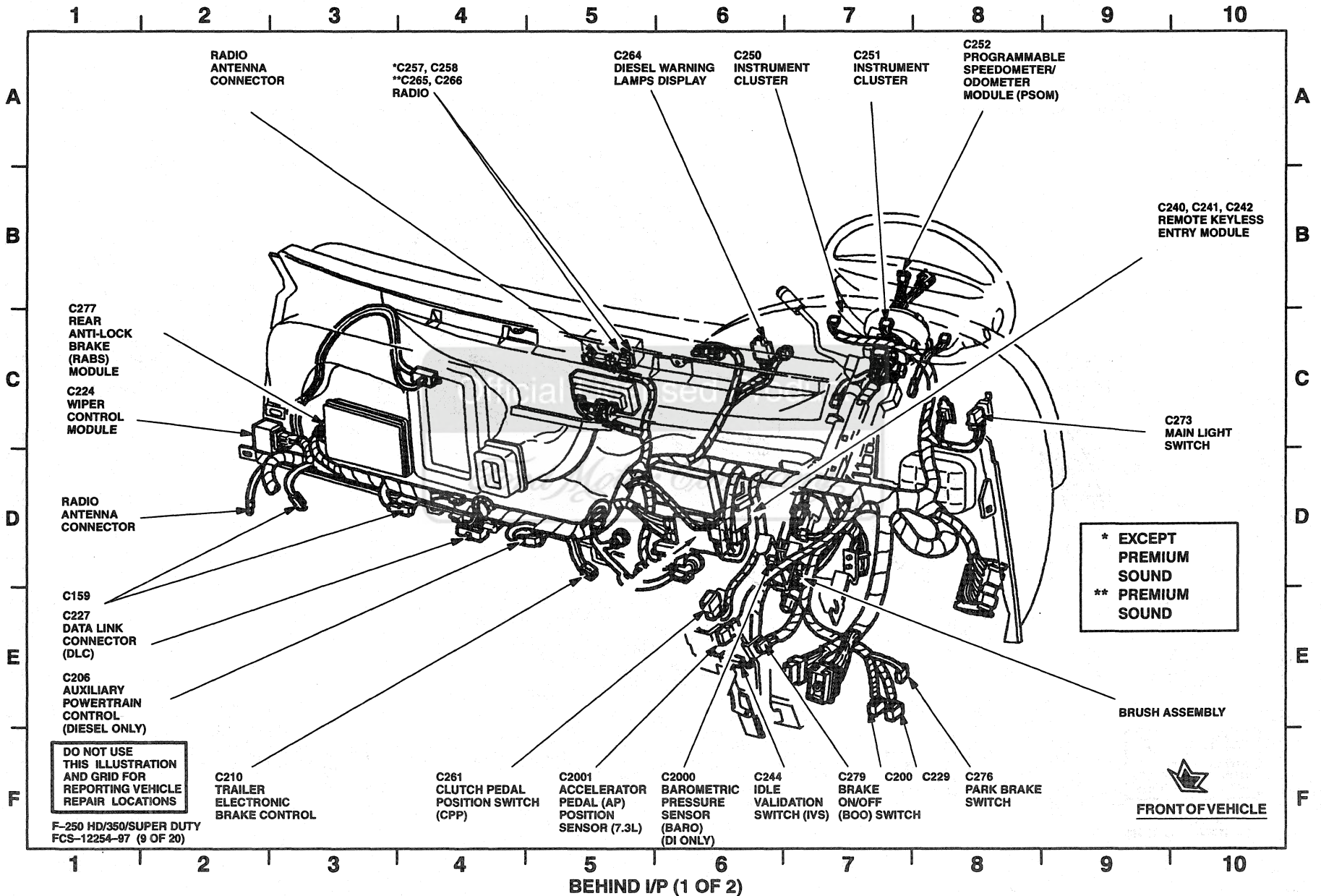
# COMPONENT LOCATION VIEWS 151-8

1997 F-250 HD/350/SUPER DUTY



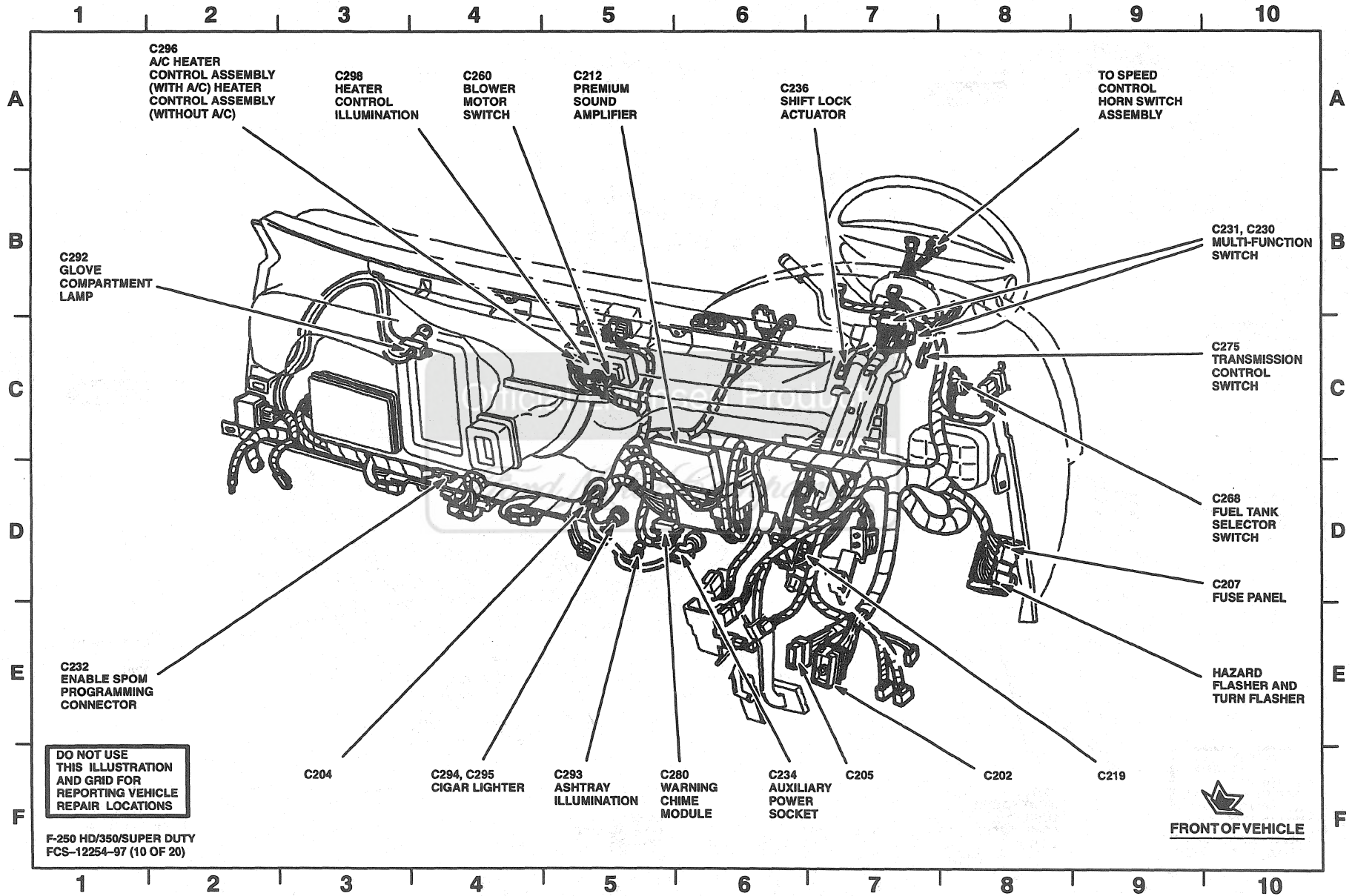
# 151-9 COMPONENT LOCATION VIEWS

1997 F-250 HD/350/SUPER DUTY



# COMPONENT LOCATION VIEWS 151-10

1997 F-250 HD/350/SUPER DUTY



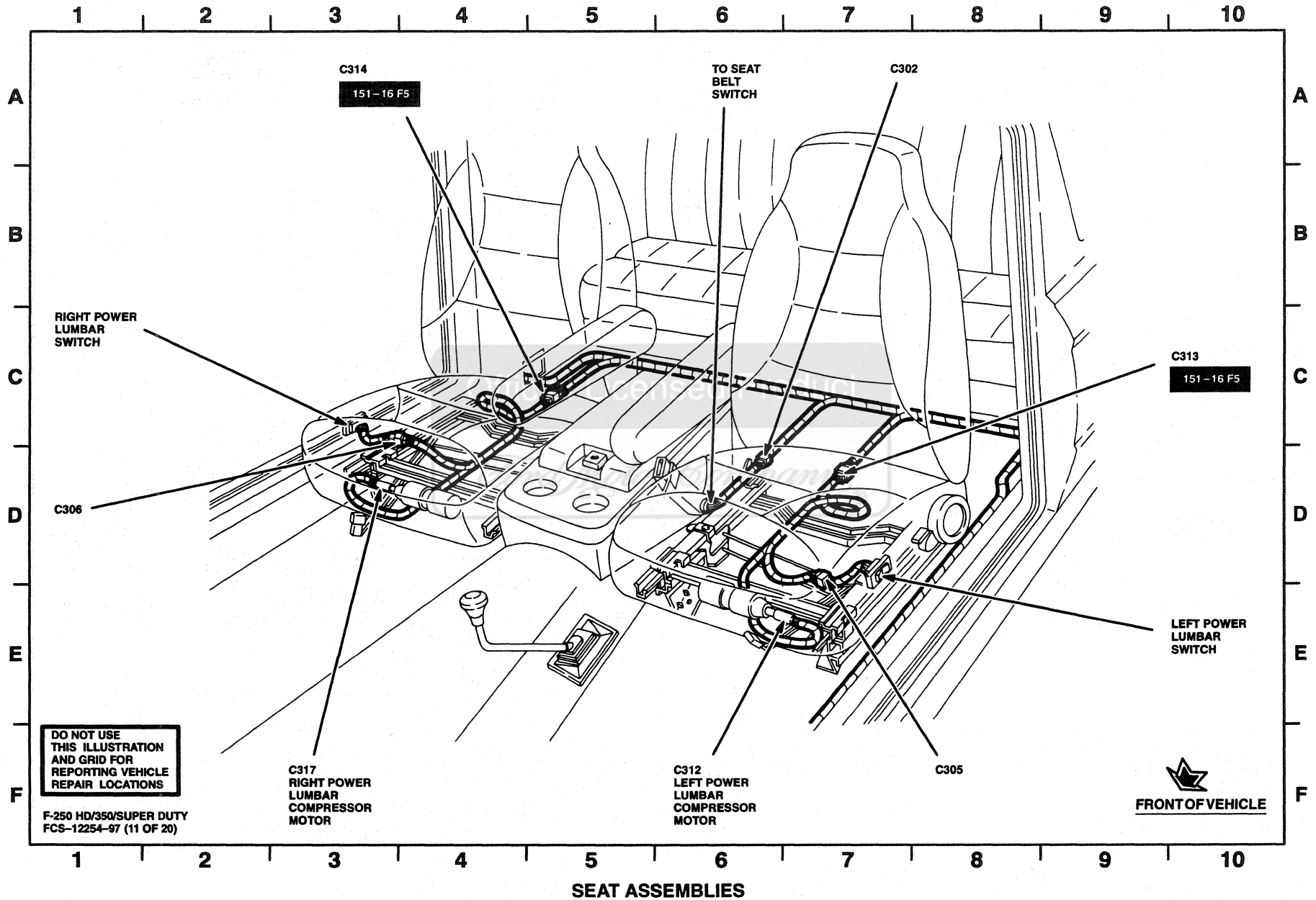
DO NOT USE THIS ILLUSTRATION AND GRID FOR REPORTING VEHICLE REPAIR LOCATIONS

F-250 HD/350/SUPER DUTY  
FCS-12254-97 (10 OF 20)

FRONT OF VEHICLE

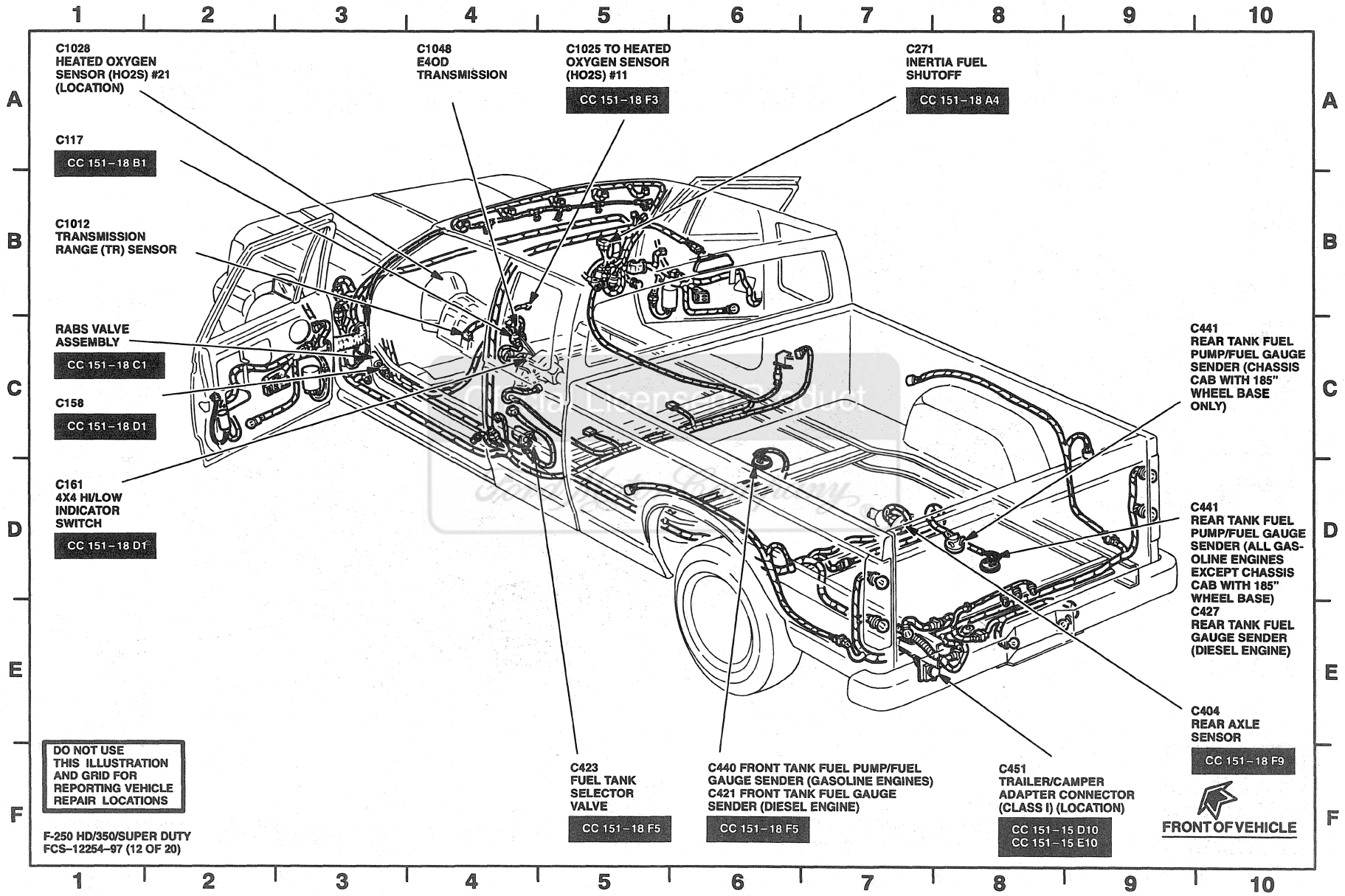
# 151-11 COMPONENT LOCATION VIEWS

1997 F-250 HD/350/SUPER DUTY



# COMPONENT LOCATION VIEWS 151-12

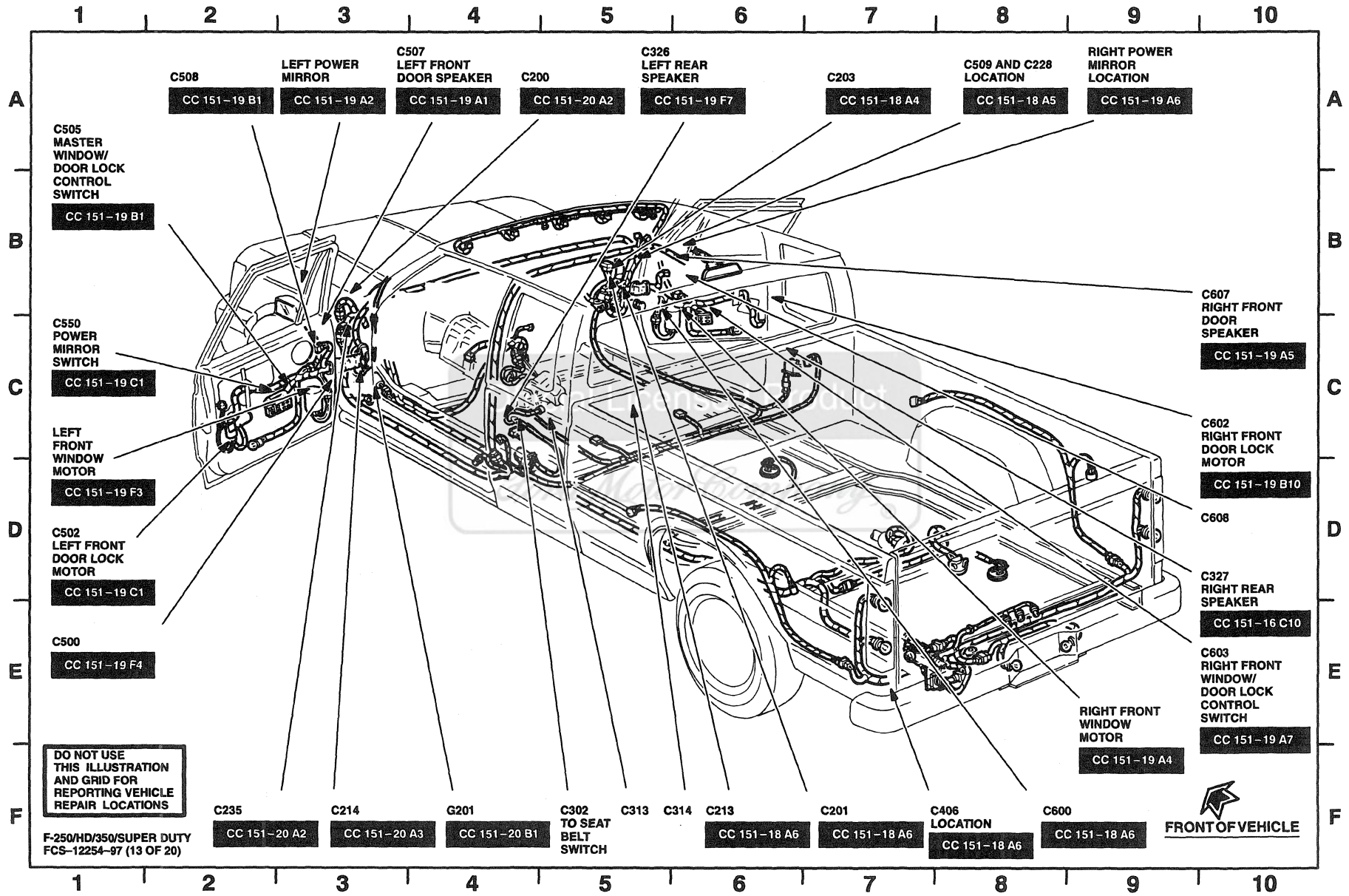
1997 F-250 HD/350/SUPER DUTY



FULL BODY VIEW (REGULAR & SUPER CAB) (1 OF 3)

# 151-13 COMPONENT LOCATION VIEWS

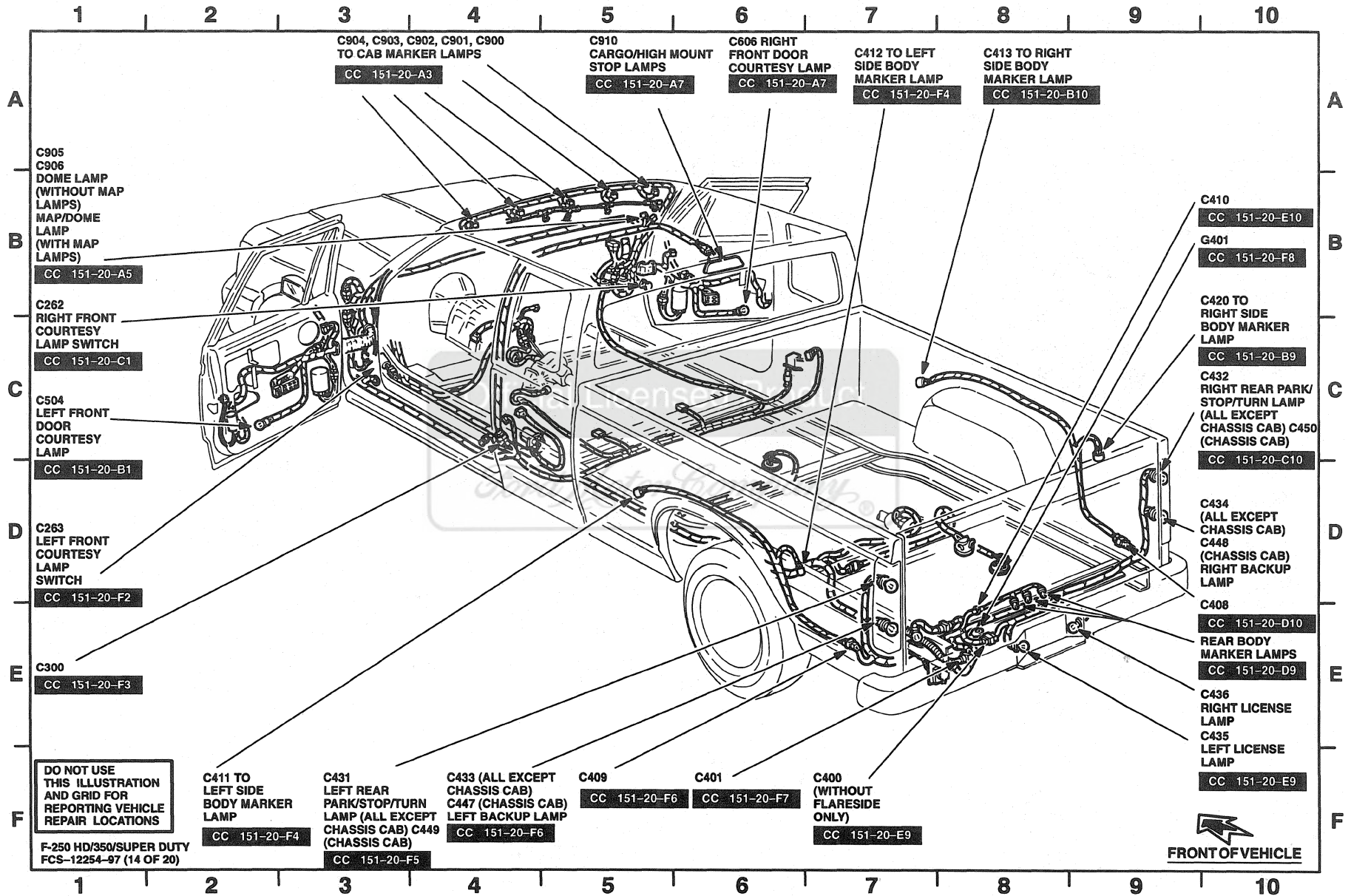
1997 F-250 HD/350/SUPER DUTY



FULL BODY VIEW (REGULAR & SUPER CAB) (2 OF 3)

# COMPONENT LOCATION VIEWS 151-14

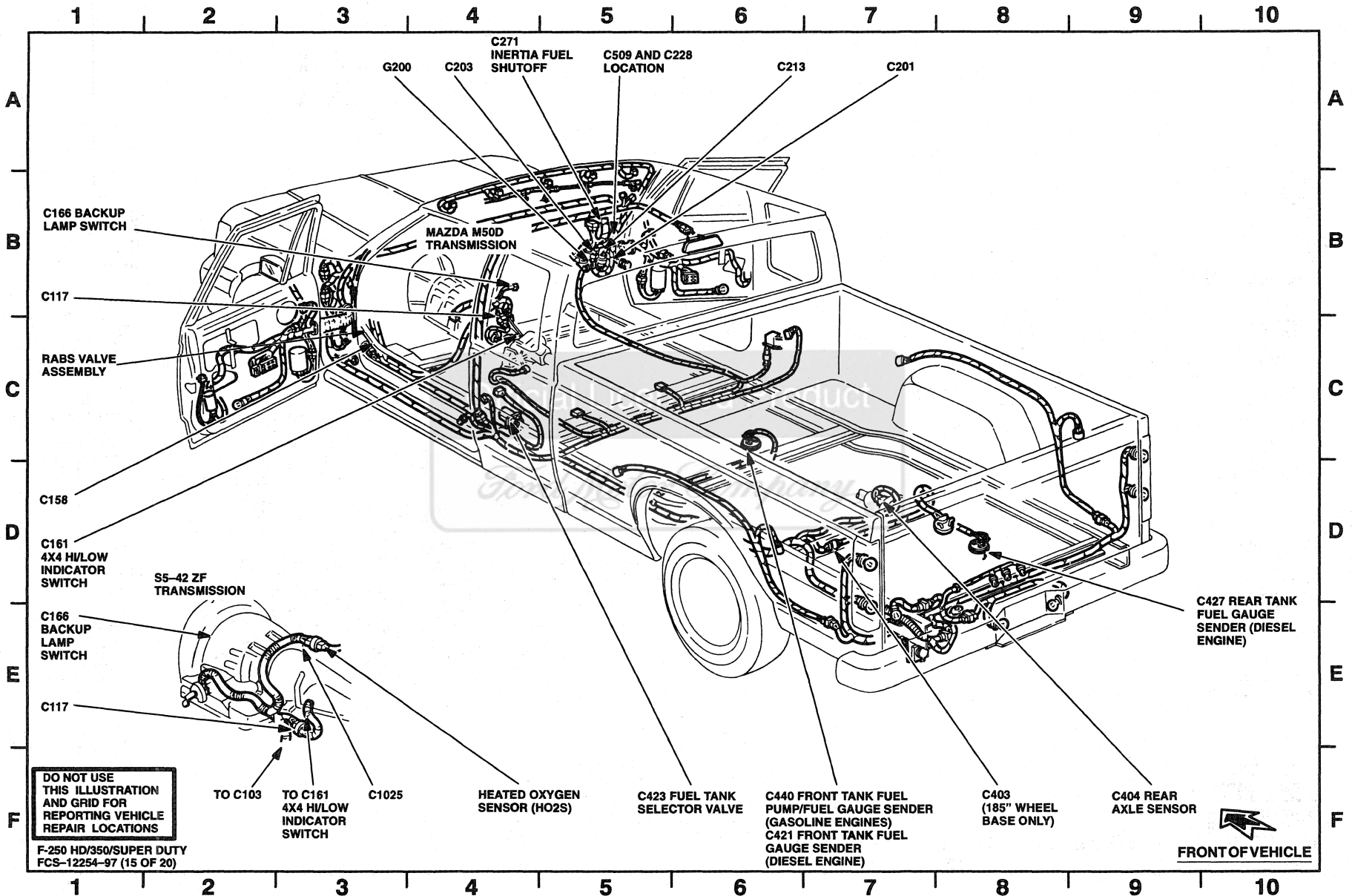
1997 F-250 HD/350/SUPER DUTY



FULL BODY VIEW (REGULAR & SUPER CAB) (3 OF 3)

# 151-15 COMPONENT LOCATION VIEWS

1997 F-250 HD/350/SUPER DUTY

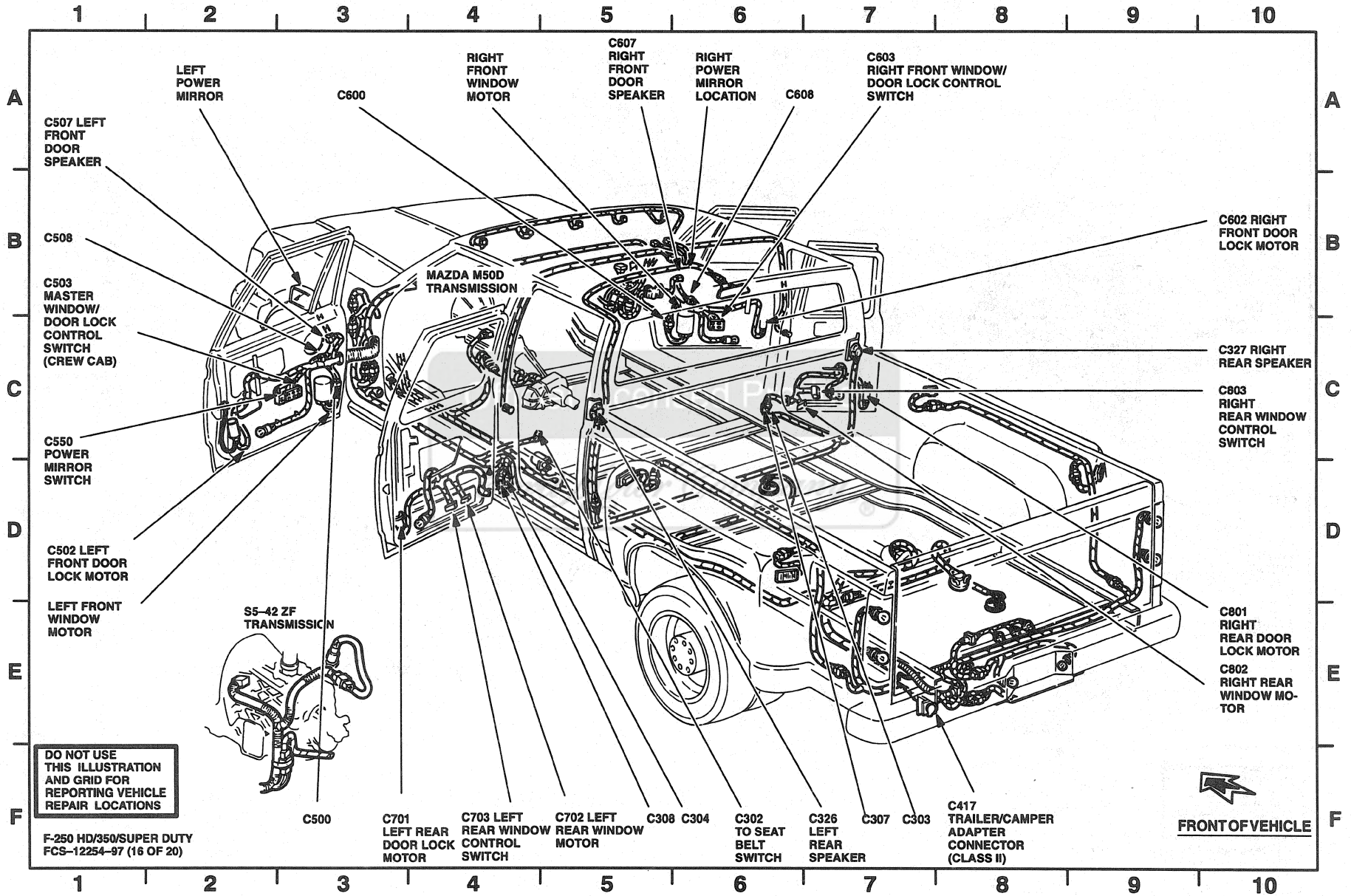


FULL BODY VIEW (CREW CAB) (1 OF 3)



# COMPONENT LOCATION VIEWS 151-16

1997 F-250 HD/350/SUPER DUTY



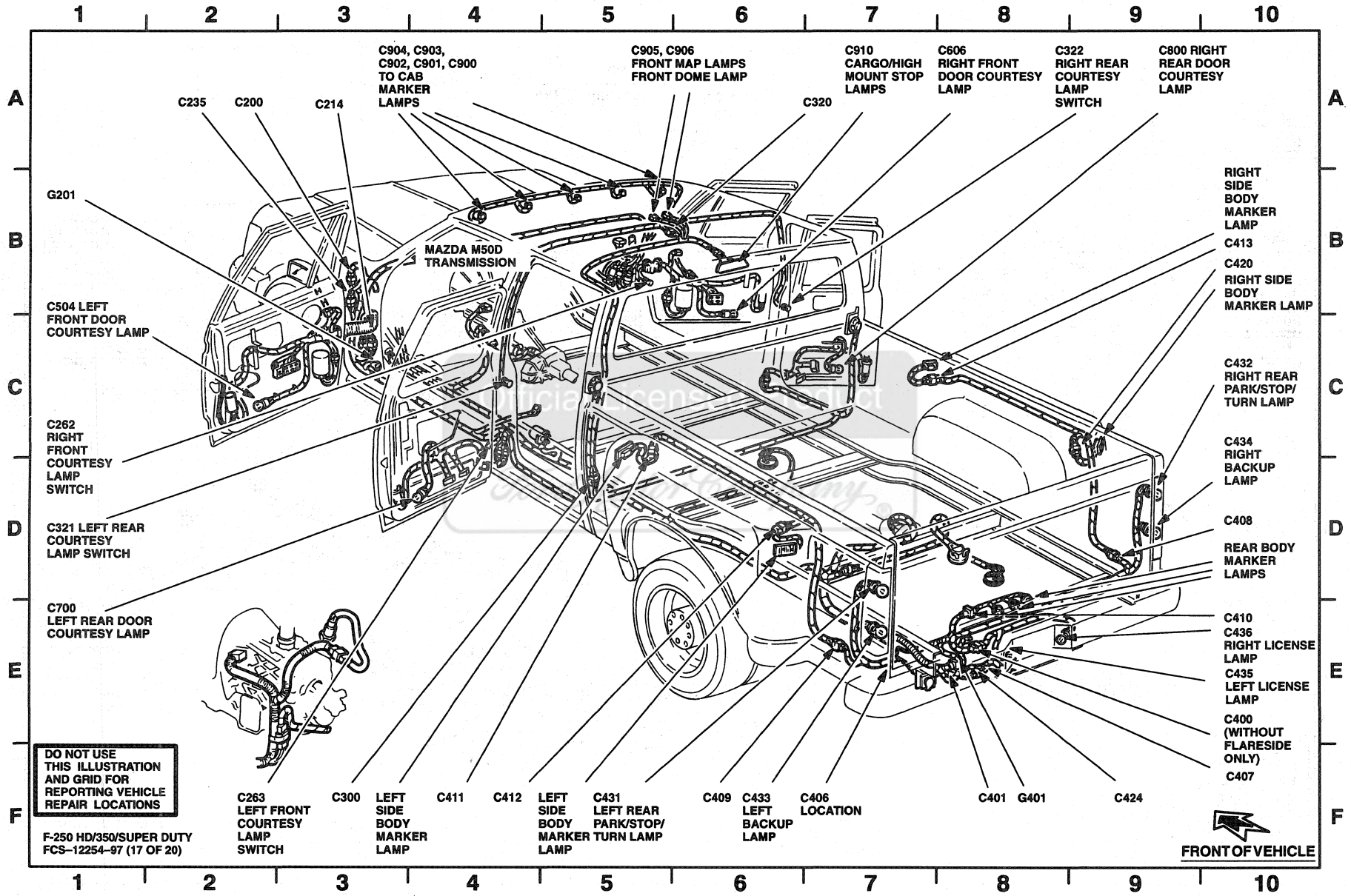
**DO NOT USE THIS ILLUSTRATION AND GRID FOR REPORTING VEHICLE REPAIR LOCATIONS**

F-250 HD/350/SUPER DUTY  
FCS-12254-97 (16 OF 20)

FULL BODY VIEW (CREW CAB) (2 OF 3)

# 151-17 COMPONENT LOCATION VIEWS

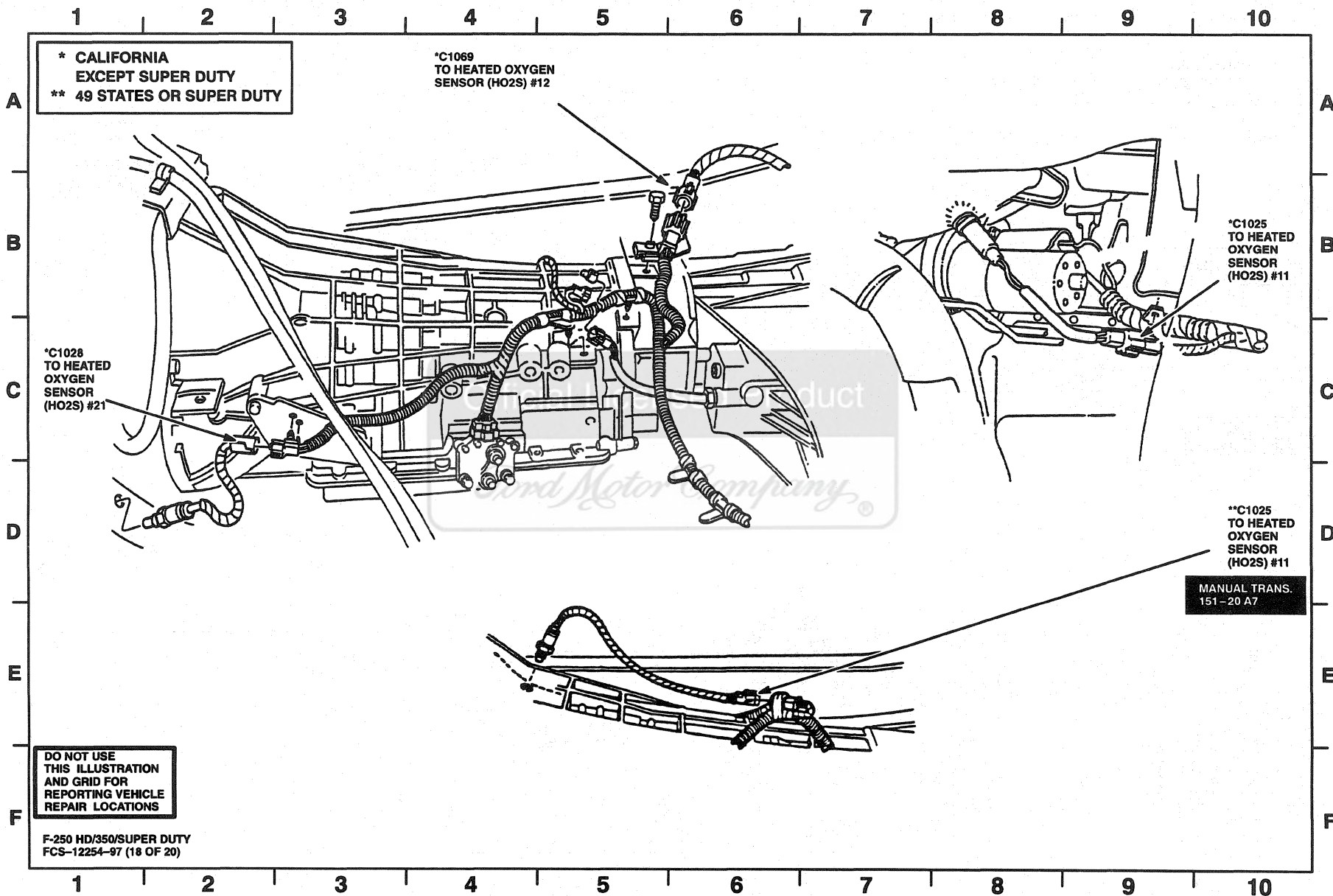
1997 F-250 HD/350/SUPER DUTY



FULL BODY VIEW (CREW CAB)(3 OF 3)

# COMPONENT LOCATION VIEWS 151-18

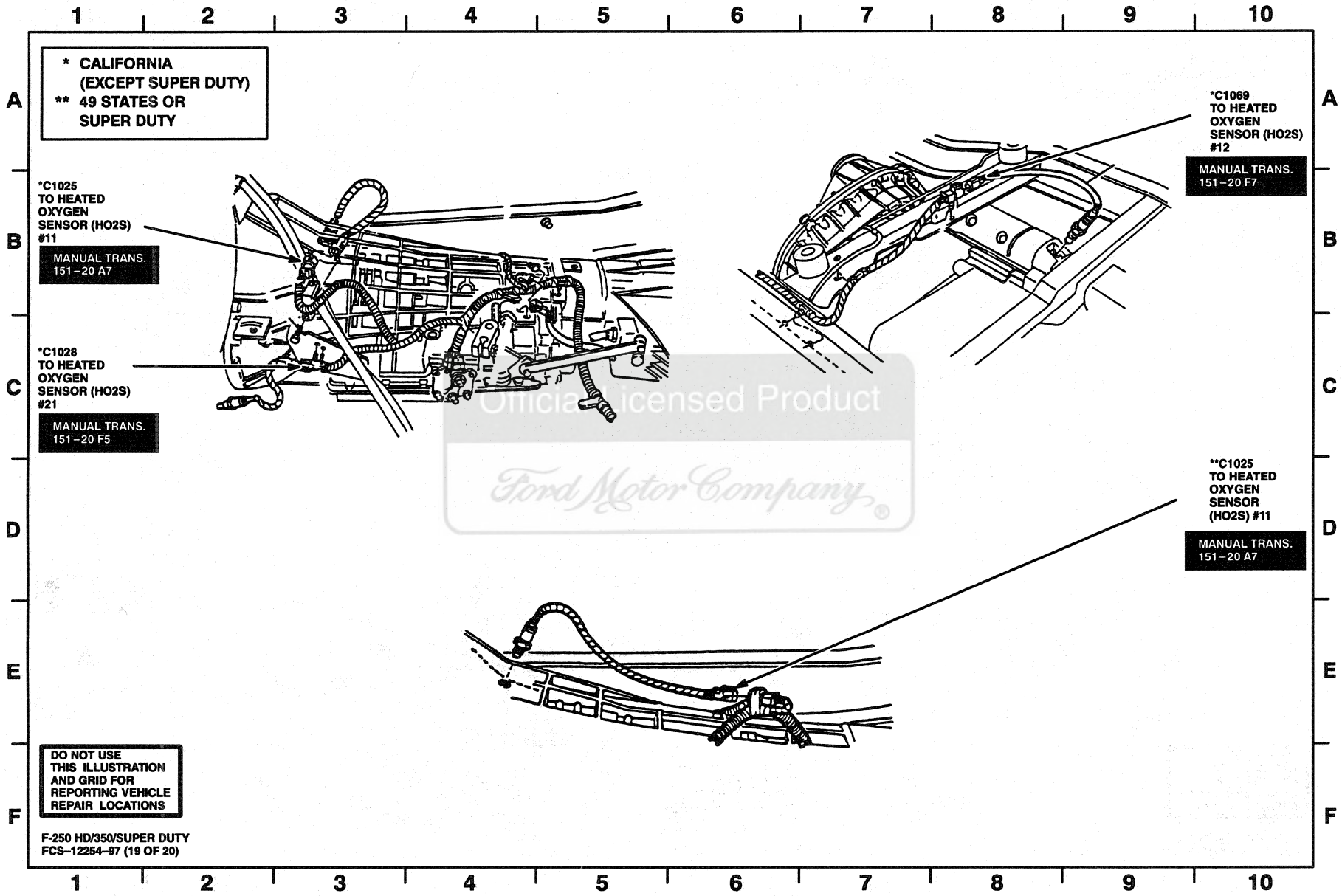
1997 F-250 HD/350/SUPER DUTY



5.8L WITH E40D TRANSMISSION (1 OF 1)

# 151-19 COMPONENT LOCATION VIEWS

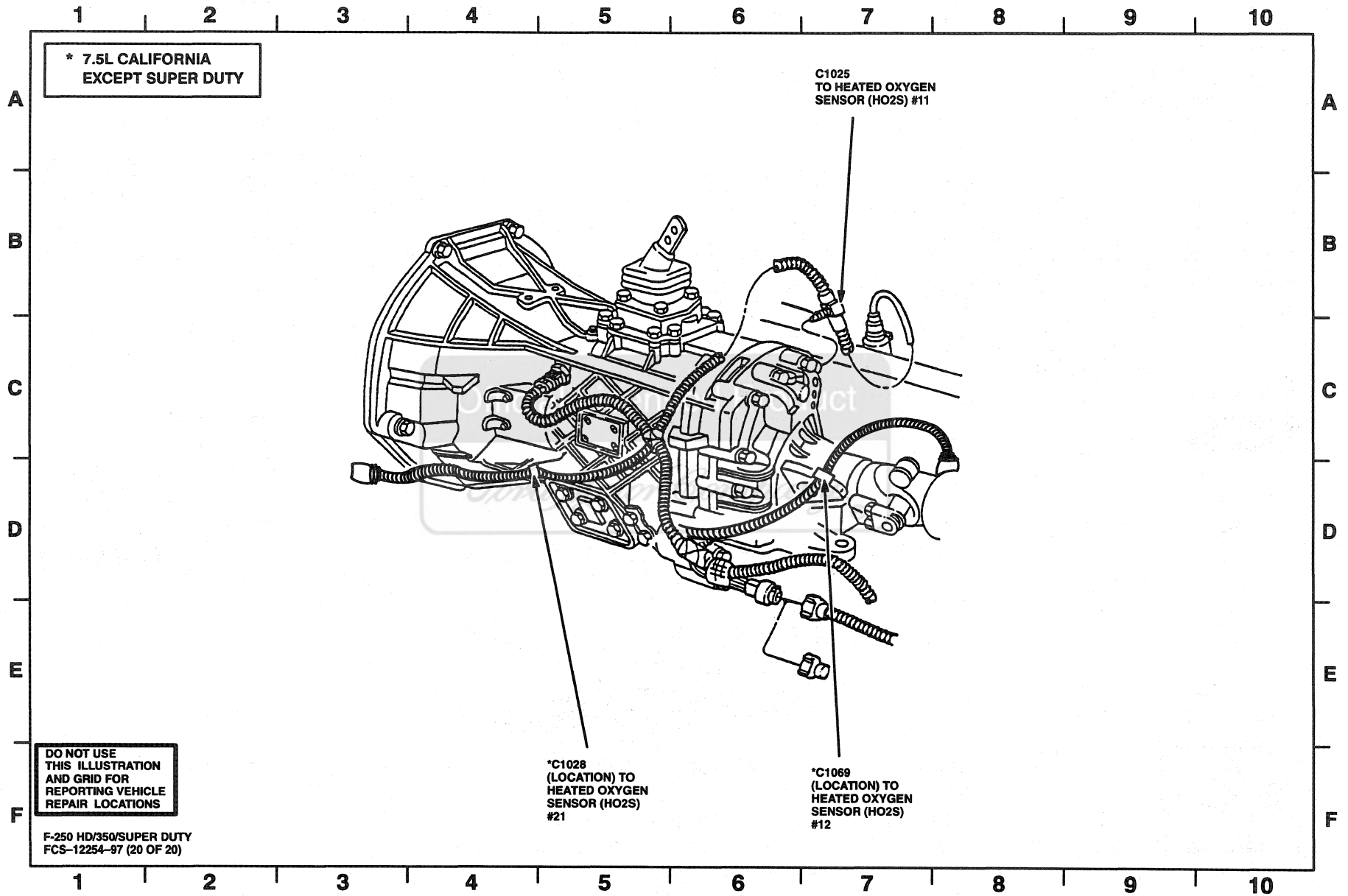
1997 F-250 HD/350/SUPER DUTY



7.5L WITH E40D TRANSMISSION (1 OF 1)

# COMPONENT LOCATION VIEWS 151-20

1997 F-250 HD/350/SUPER DUTY



MANUAL TRANSMISSION ( 1 OF 1 )

# 152-1 LOCATION INDEX

1997 F-250 HD/350/SUPER DUTY

<u>Component</u>	<u>Base Part No.</u>	<u>Location</u>	<u>Connector</u>	<u>Page Zone</u>	<u>Connector Page</u>
4x4 Hi/Low Indicator Switch (E4OD Transmission)	7E440	Below vehicle, on front of transfer case	C161	151- 12-	D1
4x4 Hi/Low Indicator Switch (Mazda M5OD Transmission)	7E440	Below vehicle, on front of transfer case	C161	151- 15-	D1
Accelerator Pedal (AP) Position Sensor (7.3L)	9B989	Under LH side of I/P	C2001	151- 9-	F5
A/C Clutch Cycling Pressure Switch (5.8L)	19E561	RH rear of engine compartment, on accumulator	C162	151- 2-	A2
A/C Clutch Cycling Pressure Switch (7.3L)	19E561	RH rear of engine compartment, on accumulator	C162	151- 7-	B1
A/C Clutch Cycling Pressure Switch (7.5L)	19E561	RH rear of engine compartment, on accumulator	C162	151- 5-	A3
A/C Clutch Field Coil (5.8L)	19703	LH front of engine	C163	151- 2-	F5
A/C Clutch Field Coil (7.3L Diesel)	19703	LH front of engine	C163	151- 7-	F7
A/C Clutch Field Coil (7.5L)	19703	LH front of engine	C163	151- 5-	F5
A/C Clutch Resistor Diode (5.8L)	1N4003	27 ohms @ 5W . LH side of engine compartment, taped to harness, near C101		151- 2-	C10
A/C Clutch Resistor Diode (7.3L)	1N4003	27 ohms @ 5W . LH front of engine, taped to harness, near A/C clutch field coil			*
A/C Clutch Resistor Diode (7.5L)	1N4003	LH side of engine compartment, taped			*
A/C-Heater Control Assembly	19980	Center of I/P	C296	151- 10-	A2
A/C High Pressure Cut Out Switch (5.8L)	19D594	LH side of engine compartment	C126	151- 2-	A4
A/C High Pressure Cut Out Switch (7.3L Diesel)	19D594	LH side of engine compartment	C126	151- 6-	A7
A/C High Pressure Cut Out Switch (7.5L)	19D594	LH side of engine compartment	C126	151- 4-	F6
Ambient Temperature Sensor	19E702	RH front of engine compartment	C131		*
Ashtray Illumination	15052	Lower center of I/P, in ashtray assembly	C293	151- 10-	F5

\* Not Available

# LOCATION INDEX

# 152-2

1997 F-250 HD/350/SUPER DUTY

<u>Component</u>	<u>Base Part No.</u>	<u>Location</u>	<u>Connector</u>	<u>Page Zone</u>	<u>Connector Page</u>
Auxiliary Power Socket .....	15055 .....	Lower center of I/P .....	C234 .....	151- 10- F7	
Auxiliary Powertrain Control .....	* .....	Behind center of I/P .....	C206 .....	151- 9- E1	
Backup Lamp Switch (Mazda M5OD Transmission) .....	15520 .....	Below center of vehicle, top LH side of transmission .....	C166 .....	151- 15- B1	
Backup Lamp Switch (S5-42 ZF Transmission) .....	15520 .....	Below center of vehicle, top LH side of transmission .....	C166 .....	151- 15- E1	
Backup Lamps (All Except Chassis Cab) .....	13405 .....	Rear of vehicle, on respective sides .....	C433 .....	151- 17- F6	
Backup Lamps (All Except Chassis Cab) .....	13404 .....	Rear of vehicle, on respective sides .....	C434 .....	151- 17-C10	
Backup Lamps (Chassis Cab) .....	13405 .....	Rear of vehicle, on respective sides .....	C447 .....	151- 14- F4	
Backup Lamps (Chassis Cab) .....	13404 .....	Rear of vehicle, on respective sides .....	C448 .....	151- 14-D10	
Barometric Pressure (BARO) Sensor (7.3L Diesel) .....	9F479 .....	Below I/P at base of steering column .....	C2000 .....	151- 9- F5	
Blower Motor (5.8L) .....	18527 .....	RH side of safety wall .....	C168 .....	151- 2- B1	
Blower Motor (7.3L) .....	18527 .....	RH side of safety wall .....	C168 .....	151- 7- C1	
Blower Motor (7.5L) .....	18527 .....	RH side of safety wall .....	C168 .....	151- 5- B1	
Blower Motor Resistor (5.8L) .....	19A706 .....	RH side of safety wall, on plenum .....	C169 .....	151- 2- A1	
Blower Motor Resistor (7.3L) .....	19A706 .....	RH side of safety wall, on plenum .....	C169 .....	151- 7- A1	
Blower Motor Resistor (7.5L) .....	19A706 .....	RH side of safety wall, on plenum .....	C169 .....	151- 5- B1	
Blower Motor Switch .....	18578 .....	Center of I/P .....	C260 .....	151- 10- A4	
Brake Fluid Level Switch (5.8L) .....	2L454 .....	LH rear of engine compartment, on brake fluid reservoir .....	C170 .....	151- 2- A8	
Brake Fluid Level Switch (7.3L) .....	2L454 .....	LH rear of engine compartment, on brake fluid reservoir .....	C170 .....	151- 6- A8	
Brake Fluid Level Switch (7.5L) .....	2L454 .....	LH rear of engine compartment, on brake fluid reservoir .....	C170 .....	151- 5- A9	
Brake ON/OFF (BOO) Switch .....	13480 .....	Behind LH side of I/P, top LH side of brake/clutch pedal support .....	C279 .....	151- 9- F7	
Brake Pressure Switch (5.8L) .....	* .....	Near LH front rail .....	C102 .....	151- 2-A10	
Brake Pressure Applied Switch (7.3L Diesel) .....	* .....	Near LH front rail .....	C102 .....	151- 7- A7	
Brush Assembly .....	3600 .....	Top of steering column, below steering wheel ..	C219 .....	151- 9-F10	

\* Not Available

# 152-3 LOCATION INDEX

1997 F-250 HD/350/SUPER DUTY

<u>Component</u>	<u>Base Part No.</u>	<u>Location</u>	<u>Connector</u>	<u>Page Zone</u>	<u>Connector Page</u>
Cab Marker Lamps .....	15442 .....	Top front of cab roof .....	C903, C904 ...	151- 14- A3	
Cab Marker Lamps .....	15442 .....	Top front of cab roof .....	C900, C901 ...	151- 14- A4	
Cab Marker Lamps .....	15442 .....	Top front of cab roof .....	C902 .....	151- 14- A4	
Camshaft Position (CMP) Sensor .....	* .....	Front center of engine .....	C144 .....	151- 6- F4	
Cargo/High Mount Stop Lamps .....	15550 .....	On top rear of cab .....	C910 .....	151- 14- A5	
Cigar Lighter .....	15055 .....	Lower center of I/P, in ashtray assembly .....	C294, C295 ...	151- 10- F4	
Clutch Pedal Position (CPP) Switch (Manual) .....	11A152 .....	Behind LH side of I/P, top RH side of brake/clutch pedal support .....	C261 .....	151- 9- F4 .....	20-5, 31-6
Clutch Pedal Position (CPP) Switch Jumper (Automatic) .....	14B155 .....	Behind LH side of I/P, taped to main harness, near steering column .....	C261 .....	*	
Courtesy Lamp Diode .....	* .....	In harness 14A504			
Data Link Connector (DLC) .....	* .....	Behind lower RH side of I/P, before glove compartment .....	C227 .....	151- 9- E1 .....	28-12
Data Link Connector (DLC) .....	* .....	Behind lower RH side of I/P, before glove compartment .....	C227 .....	151- 9- E1 .....	27-10
Daytime Running Lamps (DRL) Jumper ..	14A464 .....	Front LH side of lower radiator support .....	C177 .....	151- 2- F8	
Daytime Running Lamps (DRL) Module ..	15A272 .....	Front LH side of lower radiator support .....	C177 .....	151- 2-F10 .....	97-2
Delta Exhaust Pressure Transducer .....	* .....		C1037 .....	*	
Delta Pressure Feedback EGR (DPFE) Sensor (5.8L) (California Except Super Duty) .....	* .....	Top RH front of engine .....	C182 .....	151- 1- D1	
Delta Pressure Feedback EGR (DPFE) Sensor (7.5L) (California Except Super Duty) .....	* .....	LH rear of engine, left of throttle body .....	C182 .....	151- 4- A5	
Diesel Warning Lamps Display .....	10B987 .....	Top LH side of I/P, right of instrument cluster ...	C264 .....	151- 9- A5 .....	65-2
Distributor (5.8L) .....	12127 .....	Top center front of engine .....	C178 .....	151- 1- F8 .....	21-2
Distributor (7.5L) .....	12127 .....	Top center front of engine .....	C178 .....	151- 4- F6 .....	21-2
E4OD Transmission .....	7000 .....	Below center of vehicle .....	C1048 .....	151- 12- A3 .....	30-7
EGR Control Solenoid (5.8L) .....	9D474 .....	Top LH side of engine, on ignition coil support bracket .....	C180 .....	151- 1- A6	

\* Not Available



# LOCATION INDEX 152-4

1997 F-250 HD/350/SUPER DUTY

<u>Component</u>	<u>Base Part No.</u>	<u>Location</u>	<u>Connector</u>	<u>Page Zone</u>	<u>Connector Page</u>
EGR Valve Position (EVP) Sensor (5.8L) (49 States or Super Duty)	96428	Top RH front of engine	C182	*	
EGR Control Solenoid	9D475	LH side of engine compartment	C180	151- 4-	A6
EGR Valve Position (EVP) Sensor (7.5L) (49 States or Superduty)		RH side of engine compartment	C182	151- 4-	C1
Enable PSOM Programming Connector	14A459	Behind lower RH side of I/P, below glove compartment	C232	151- 10-	E1
Engine Compartment Fuse Box	14A067	LH side of engine compartment, on top front of wheel well		151- 2-	C10
Engine Compartment Lamp	13C705	LH underside of engine compartment hood	C1035	151- 2-	A7
Engine Coolant Temperature Sender (5.8L)	10884	Top LH front of engine	C150	151- 3-	C1
Engine Coolant Temperature Sender (7.3L)	10884	Top LH front of engine	C150	151- 6-	F5
Engine Coolant Temperature Sender (7.5L)	10884	Top LH front of engine, LH side of distributor	C150	151- 5-	A4
Engine Coolant Temperature (ECT) Sensor (5.8L)	12A648	Center front of engine, on thermostat housing	C183	151- 1-	F4
Engine Coolant Temperature (ECT) Sensor (7.5L)	12A648	LH front of engine, near LH side of distributor	C183	151- 4-	F5
Engine Oil Pressure Switch (5.8L)	9278	Lower LH front of engine, near oil filter	C135	151- 2-	A3
Engine Oil Pressure Switch (7.3L)	9278	Top center rear of engine	C135	151- 7-	F2
Engine Oil Pressure Switch (7.5L)	9278	Top center rear of engine	C135	151- 5-	A5
Engine Oil Temperature (EOT) Sensor (7.3L Diesel)	12A648	Front top of engine	C183	151- 6-	F6
EVAP Canister Purge Solenoid (5.8L) (49 States or Super Duty)	9C915	RH front of engine	C171	151- 3-	F3
EVAP Canister Purge Solenoid (49 States or Super Duty)	9C915	RH side of engine, above exhaust manifold	C171	151- 4-	C1
Exhaust Back Pressure (EBP) Sensor	*	RH side of engine	C145	151- 6-	D1
Exhaust Pressure Regulator (EPR)	*	Top center of engine	C155	151- 6-	A3
Front Dome Lamp	13776	Center of roof	C906	151- 14-	B1

\* Not Available

# 152-5 LOCATION INDEX

1997 F-250 HD/350/SUPER DUTY

<u>Component</u>	<u>Base Part No.</u>	<u>Location</u>	<u>Connector</u>	<u>Page Zone</u>	<u>Connector Page</u>
Front Map Lamps	13776	Center of roof	C905	151- 14- B1	
Front Park/Turn Lamps	13201	Front of vehicle, on respective sides	C1031	151- 2- F7	
Front Park/Turn Lamps	13200	Front of vehicle, on respective sides	C1032	151- 2- F4	
Front Side Marker Lamps	15A426	Front of vehicle, on respective sides	C1052, C1053	151- 3- E1	
Front Side Marker Lamps	15A426	Front of vehicle, on respective sides	C1054, C1055	151- 3-E10	
Front Tank Fuel Gauge Sender	9275	Below RH center of vehicle, in front fuel tank	C421	151- 12- F6	
Front Tank Fuel Pump/Fuel Gauge Sender	9H307	Below RH center of vehicle, in front fuel tank	C440	151- 12- F6	
Fuel Injectors (5.8L)	9F593	Top of engine, in lower intake manifold, at respective cylinders	C190, C191	151- 1- F7	
Fuel Injectors (5.8L)	9F593	Top of engine, in lower intake manifold, at respective cylinders	C192, C193	151- 1- F7	
Fuel Injectors (5.8L)	9F593	Top of engine, in lower intake manifold, at respective cylinders	C194, C195	151- 1- F7	
Fuel Injectors (5.8L)	9F593	Top of engine, in lower intake manifold, at respective cylinders	C196, C197	151- 1- F7	
Fuel Injectors (7.5L)	9F593	Top of engine, in lower intake manifold, at respective cylinders	C190, C191	151- 4- E1	
Fuel Injectors (7.5L)	9F593	Top of engine, in lower intake manifold, at respective cylinders	C192, C193	151- 4- E1	
Fuel Injectors (7.5L)	9F593	Top of engine, in lower intake manifold, at respective cylinders	C194, C195	151- 4- E1	
Fuel Injectors (7.5L)	9F593	Top of engine, in lower intake manifold, at respective cylinders	C196, C197	151- 4- E1	
Fuel Injectors/Glow Plugs (#2, #4)	*	Top of engine, in cylinder head near respective cylinders	C1057	151- 7- A6	28-17
Fuel Injectors/Glow Plugs (#6, #8)	*	Top of engine, in cylinder head near respective cylinders	C1058	151- 7- A6	28-17
Fuel Injectors/Glow Plugs (#1, #3)	*	Top of engine, in cylinder head near respective cylinders	C1059	151- 6- D1	28-18
Fuel Injectors/Glow Plugs (#5, #7)	*	Top of engine, in cylinder head near respective cylinders	C1060	151- 7- A3	28-18
Fuel Line Heater (Diesel)	9J294	RH side of engine, on top of fuel filter/heater	C188	151- 6- A4	

\* Not Available

# LOCATION INDEX

# 152-6

1997 F-250 HD/350/SUPER DUTY

<u>Component</u>	<u>Base Part No.</u>	<u>Location</u>	<u>Connector</u>	<u>Page Zone</u>	<u>Connector Page</u>
Fuel Tank Selector Switch	9A050	Top LH side of I/P, RH side of main light switch	C268	151- 10-D10	49-3
Fuel Tank Selector Switch	9A050	Top LH side of I/P, RH side of main light switch	C268	151- 10-D10	49-4
Fuel Tank Selector Valve	9F271	Under LH center of vehicle, on LH frame rail	C423	151- 12- F5	49-3
Fuel Water Switch	9J308	RH side of engine, on bottom of fuel filter/heater	C1001	151- 7- F4	
Fuse Link A (5.8L)	14526	Front of RH fender apron, at starter relay		151- 3- C1	
Fuse Link A (7.3L)	14526	Front of RH fender apron, at starter relay		*	
Fuse Link A (7.5L)	14526	Front of RH fender apron, at starter relay		151- 5- C1	
Fuse Link B (5.8L)	14526	Front of RH fender apron, at starter relay		151- 3- C1	
Fuse Link B (7.3L)	14526	Front of RH fender apron, at starter relay		*	
Fuse Link B (7.5L)	14526	Front of RH fender apron, at starter relay		151- 5- C1	
Fuse Link C	14526	LH side of engine compartment, in engine compartment fuse box		151- 6-C10	
Fuse Link D	14526	LH side of engine compartment, in engine compartment fuse box		151- 6-C10	
Fuse Link J (5.8L)	14526	Front of RH fender apron, at starter relay		*	
Fuse Link J (7.3L)	14526	Front of RH fender apron, at starter relay		*	
Fuse Link J (7.5L)	14526	Front of RH fender apron, at starter relay		151- 5- D1	
Fuse Link K (7.3L)	14526	Front of RH fender apron, at starter relay		*	
Fuse Link L (7.5L)	14526	Front of RH fender apron, at starter relay		*	
Fuse Panel	14A068	Behind lower LH side of I/P, left of steering column	C207	151- 10-D10	
Generator/Voltage Regulator (5.8L)	10300	RH front of engine	C153, C154	151- 2- F5	
Generator/Voltage Regulator (5.8L)	10300	RH front of engine	C1063	151- 2- F5	
Generator/Voltage Regulator (7.3L)	10300	Top RH front of engine	C165, C1029	151- 6- A1	
Generator/Voltage Regulator (7.3L)	10300	Top RH front of engine	C1063	151- 6- A1	
Generator/Voltage Regulator (7.5L)	10300	RH front of engine	C153	151- 5- F4	
Generator/Voltage Regulator (7.5L)	10300	RH front of engine	C154, C1063	151- 5- F5	
Glove Compartment Lamp	14413	Behind RH side of I/P, in glove compartment	C292	151- 10- B1	
Glow Plug Relay	12B533	Top center rear of engine	C1002, C1004	151- 7- A2	
Glow Plug Relay	12B533	Top center rear of engine	C1013, C1018	151- 7- A2	
Hazard Flasher	13350	Behind LH side of I/P, on front of fuse panel		151- 10-E10	

\* Not Available

# 152-7 LOCATION INDEX

1997 F-250 HD/350/SUPER DUTY

<u>Component</u>	<u>Base Part No.</u>	<u>Location</u>	<u>Connector</u>	<u>Page Zone</u>	<u>Connector Page</u>
Headlamps .....	13005 .....	Front of vehicle, on respective sides .....	C1033 .....	151- 2- F8	
Headlamps .....	13005 .....	Front of vehicle, on respective sides .....	C1034 .....	151- 2- F3	
Heated Oxygen Sensor (HO2S) #11 (5.8L California Except Super Duty) ..	9F472 .....	Near starter .....	C1025 .....	151- 18-B10	
Heated Oxygen Sensor (HO2S) #11 (5.8L 49 States or Super Duty) .....	9F472 .....	On top of transmission .....	C1025 .....	151- 18-D10	
Heated Oxygen Sensor (HO2S) #11 (7.5L California Except Super Duty) ..	9F472 .....	Near top front of transmission .....	C1025 .....	151- 19- B1	
Heated Oxygen Sensor (HO2S) #11 (7.5L 49 States or Super Duty) .....	9F472 .....	On top of transmission .....	C1025 .....	151- 19-D10	
Heated Oxygen Sensor (HO2S) #12 (5.8L California Except Super Duty) ..	9F472 .....	Near rear of transmission .....	C1069 .....	151- 18- A4	
Heated Oxygen Sensor (HO2S) #12 (7.5L California Except Super Duty) ..	9F472 .....	Near rear of transmission .....	C1069 .....	151- 19-A10	
Heated Oxygen Sensor (HO2S) #21 (5.8L California Except Super Duty) ..	9F472 .....	Near LH side of transmission .....	C1028 .....	151- 18- C1	
Heated Oxygen Sensor (HO2S) #21 (7.5L California Except Super Duty) ..	9F472 .....	Near LH side of transmission .....	C1028 .....	151- 19- D1	
Heater Control Assembly .....	18159 .....	Center of I/P .....	C296 .....	151- 10- A2	
Heater Control Illumination .....	18159 .....	Behind center of I/P, on A/C-heater control assembly .....	C298 .....	151- 10- A3	
Horns .....	13A802 .....	Rear RH side of lower radiator support, below lamps .....	C1005 .....	151- 2- F3	
Horns .....	13A802 .....	Rear RH side of lower radiator support, below lamps .....	C1006 .....	151- 2- F2	
Idle Air Control (IAC) Valve (5.8L) .....	12B526 .....	Top RH front of engine, top of throttle body .....	C1007 .....	151- 1- F6	
Idle Air Control (IAC) Valve (7.5L) .....	12B526 .....	Top center of engine, below throttle body .....	C1007 .....	151- 4- C1	
Idle Validation Switch (IVS) .....	* .....	Near accelerator pedal .....	C244 .....	151- 9- F6	
Ignition Coil (5.8L) .....	12029 .....	LH rear of engine, near intake manifold .....	C1008 .....	151- 1- A7	
Ignition Coil (7.5L) .....	12029 .....	LH side of engine, above LH valve cover .....	C1008 .....	151- 4-E10	
Ignition Control Module (ICM) (5.8L) ....	12B582 .....	LH rear of engine compartment, on fender apron .....	C1021 .....	151- 1-B10 .....	21-2

\* Not Available

# LOCATION INDEX

# 152-8

1997 F-250 HD/350/SUPER DUTY

<u>Component</u>	<u>Base Part No.</u>	<u>Location</u>	<u>Connector</u>	<u>Page Zone</u>	<u>Connector Page</u>
Ignition Control Module (ICM) (7.5L) . . . . .	12B582 . . . . .	LH rear of engine compartment, on fender apron . . . . .	C1021 . . . . .	151- 4-C10 . . . . .	21-2
Ignition Key Warning Switch . . . . .	11A127 . . . . .	Top of steering column, part of ignition switch . . . . .	C219 . . . . .	151- 10- F8	
Ignition Suppression Resistor (5.8L) . . . . .	* . . . . .	LH side of engine compartment, taped to harness, near C101 . . . . .		151- 2-B10	
Ignition Suppression Resistor (7.5L) . . . . .	* . . . . .	LH side of engine compartment, taped to harness, near C101 . . . . .		151- 5-C10	
Ignition Switch . . . . .	11572 . . . . .	Top RH side of steering column . . . . .	C269 . . . . .	* . . . . .	13-24
Ignition Switch . . . . .	11572 . . . . .	Top RH side of steering column . . . . .	C269 . . . . .	* . . . . .	20-5
Ignition Switch . . . . .	11572 . . . . .	Top RH side of steering column . . . . .	C269 . . . . .	* . . . . .	149-2
Inertia Fuel Shutoff . . . . .	9341 . . . . .	Behind RH cowl panel . . . . .	C271 . . . . .	151- 12- A7	
Injection Control Pressure (ICP) Sensor . . . . .	* . . . . .	Top LH side of engine . . . . .	C146 . . . . .	151- 7- A5	
Injection Pressure Regulator (IPR) . . . . .	* . . . . .	Top center of engine . . . . .	C156 . . . . .	151- 7- F5	
Injector Driver Module (IDM) . . . . .	* . . . . .	LH side of engine compartment . . . . .	C128 . . . . .	151- 7-C10 . . . . .	28-11
Instrument Cluster . . . . .	10849 . . . . .	Top LH side of I/P . . . . .	C250, C251 . . . . .	151- 9- A6 . . . . .	60-9
Intake Air Temperature (IAT) Sensor (5.8L) . . . . .	12A697 . . . . .	Top center front of engine, near intake runner #6 . . . . .	C164 . . . . .	151- 1-D10	
Intake Air Temperature (IAT) Sensor (7.3L Diesel) . . . . .	12A697 . . . . .	Top center of engine . . . . .	C164 . . . . .	151- 6-C10	
Intake Air Temperature (IAT) Sensor (7.5L) . . . . .	12A697 . . . . .	Top center of engine, behind distributor . . . . .	C164 . . . . .	151- 4- F4	
Key Warning Switch . . . . .	* . . . . .	In steering column . . . . .		*	
Left Front Courtesy Lamp Switch . . . . .	13713 . . . . .	On lower rear of LH front door jamb . . . . .	C263 . . . . .	151- 14- D1	
Left Front Door Courtesy Lamp . . . . .	13776 . . . . .	In lower rear of LH front door . . . . .	C504 . . . . .	151- 14- C1	
Left Front Door Lock Motor . . . . .	218A42 . . . . .	In rear of LH front door . . . . .	C502 . . . . .	151- 13- D1	
Left Front Door Speaker . . . . .	18808 . . . . .	In top front of LH front door . . . . .	C507 . . . . .	151- 13- A3	
Left Front Window Motor . . . . .	23394 . . . . .	In lower front of LH front door . . . . .	C500 . . . . .	151- 13- E1	
Left License Lamp . . . . .	13550 . . . . .	Center left side of bumper . . . . .	C435 . . . . .	151- 14-E10	
Left Power Lumbar Compressor Motor . . . . .	65530 . . . . .	Under front of LH front seat . . . . .	C312 . . . . .	151- 11- F6	
Left Power Lumbar Switch . . . . .	14C715 . . . . .	LH side of LH front seat . . . . .	C305 . . . . .	151- 11-E10	
Left Power Mirror . . . . .	17683 . . . . .	Top front of LH front door . . . . .	C508 . . . . .	151- 13- A2	
Left Rear Courtesy Lamp Switch . . . . .	13713 . . . . .	On front of LH rear door jamb . . . . .	C321 . . . . .	151- 17- D1	

\* Not Available

# 152-9 LOCATION INDEX

1997 F-250 HD/350/SUPER DUTY

<u>Component</u>	<u>Base Part No.</u>	<u>Location</u>	<u>Connector</u>	<u>Page Zone</u>	<u>Connector Page</u>
Left Rear Door Courtesy Lamp	13776	In lower rear of LH rear door	C700	151- 17- E1	
Left Rear Door Lock Motor	218A42	In rear of LH rear door	C701	151- 16- F3	
Left Rear Park/Stop/Turn Lamp (All Except Chassis Cab)	*	Rear left quarter panel	C431	151- 14- F3	
Left Rear Park/Stop/Turn Lamp (Chassis Cab)	*	Rear left quarter panel	C449	151- 14- F3	
Left Rear Speaker	18932/18971	LH rear of cab, behind trim panel	C326	151- 13- A6	
Left Rear Window Control Switch	*	Center of LH rear door	C703	151- 16- F4	100-6
Left Rear Window Motor	*	In lower front of LH rear door	C702	151- 16- F5	
License Lamp (Without Rear Bumper)	13550	Lower rear of vehicle, near license plate holder	C446	*	
Low Vacuum Warning Switch	12A182	RH side of engine compartment, behind right battery	C1010	151- 7-D10	
Main Light Switch	11654	Top LH side of I/P, left of steering column	C273	151- 9- C10	13-24
Main Light Switch	11654	Top LH side of I/P, left of steering column	C273	151- 9- C10	71-2
Main Light Switch	11654	Top LH side of I/P, left of steering column	C273	151- 9- C10	149-1
Manifold Absolute Pressure (MAP) Sensor (5.8L) (Chassis Cab)	12A8529	Top RH side of safety wall	C1011	151- 1- A3	
Manifold Absolute Pressure (MAP) Sensor (7.3L)	9F479	Top RH side of safety wall	C176	151- 6- A2	
Manifold Absolute Pressure (MAP) Sensor (7.5L) (Chassis Cab)	9F479	Top RH side of safety wall	C1011	151- 4- A4	
Mass Air Flow (MAF) Sensor (5.8L) (All Except Chassis Cab)	12A8529	RH front of engine compartment	C130	151- 1-D10	27-10
Mass Air Flow (MAF) Sensor (7.5L) (All Except Chassis Cab)	12A8529	RH front of engine compartment	C130	*	27-10
Master Window/Door Lock Control Switch	14529	Center of LH front door	C505	151- 13- A1	100-4, 110-3
Master Window/Door Lock Control Switch (CREW CAB)	14529	Center of LH front door	C503	151- 16- B1	100-5, 110-4
Mega Fuse	*	RH front of engine	*	*	

\* Not Available

# LOCATION INDEX 152-10

1997 F-250 HD/350/SUPER DUTY

<u>Component</u>	<u>Base Part No.</u>	<u>Location</u>	<u>Connector</u>	<u>Page Zone</u>	<u>Connector Page</u>
Misfire Sensor (5.8L All Except Chassis Cab) .....	*	Center front of engine, on timing chain cover ..	C114 .....	151- 1- A4	
Misfire Sensor (7.5L California Except Super Duty) ..	*	Center front of engine, on timing chain cover ..	C114 .....	151- 4- F5	
Multi-function Switch .....	13K359	Top of steering column .....	C230, C231 ..	151- 10-B10 .....	90-5
Overheat Warning Switch .....		LH front of engine .....	C1014 .....	151- 6- F3	
Overspeed Warning Module .....	*	* .....	C208 .....	*	
Park Brake Switch .....	15852	Behind LH side of I/P, top of park brake pedal ..	C276 .....	151- 9- F8	
Plugged Fuel Filter Switch .....		RH side of engine, in fuel filter/heater housing ..	C1015 .....	151- 7- A4	
Power Lumbar Compressor Motor .....	65530	Under front of front seat .....	C312 .....	151- 11- F6	
Power Mirror Switch .....	17B676	Center of LH front door .....	C550 .....	151- 13- C1 .....	124-2
Powertrain Control Module (PCM) (5.8L California Except Super Duty) ..	*	LH side of safety wall .....	C1027 .....	151- 1-C10 .....	27-11
Powertrain Control Module (PCM) (5.8L 49 States or Super Duty) .....	*	LH side of safety wall .....	C185 .....	151- 1-C10 .....	26-9
Powertrain Control Module (PCM) (7.3L California Except Super Duty) ..	*	LH side of safety wall .....	C1027 .....	151- 7-B10 .....	28-15
Powertrain Control Module (PCM) (7.3L 49 States or Super Duty) .....	*	LH side of safety wall .....	C1027 .....	151- 7-B10 .....	28-13
Powertrain Control Module (PCM) (7.5L California Except Super Duty) ..	*	LH side of safety wall .....	C1027 .....	151- 4- A9 .....	27-11
Powertrain Control Module (PCM) (7.5L 49 States or Super Duty) .....	*	LH side of safety wall .....	C185 .....	151- 4- A9 .....	26-9
Premium Sound Amplifier .....	18B849	Behind center of I/P .....	C212, C283 ..	151- 10- A5 .....	130-4, 5
Programmable Speedometer/Odometer Module (PSOM) .....	*	Behind LH side of I/P .....	C252 .....	151- 9- A8 .....	60-8
RABS Data Link Connector (5.8L) .....	14A624	LH rear of engine compartment, on bracket ..	C143 .....	151- 3- A9 .....	42-3
RABS Data Link Connector (7.3L) .....	14A624	Behind lower center of I/P .....	C143 .....	151- 6-A10 .....	42-3
RABS Data Link Connector (7.5L) .....	14A624	LH rear of engine compartment, on bracket ..	C143 .....	151- 4-B10 .....	42-3
RABS Valve Assembly .....	2B373	On LH frame rail, near front of transmission ....	C158 .....	151- 15- C1	
Radio (Except Premium) .....	19B132/19B159/ 19B131	Top center of I/P .....	C265, C266 ..	151- 9- A4 .....	130-3

\* Not Available

# 152-11 LOCATION INDEX

1997 F-250 HD/350/SUPER DUTY

<u>Component</u>	<u>Base Part No.</u>	<u>Location</u>	<u>Connector</u>	<u>Page Zone</u>	<u>Connector Page</u>
Radio (Premium Sound)	18C815	Top center of I/P	C211, C282	* .....	130-4, 5
Radio Capacitor (5.8L)	18801	LH side of engine, near ignition coil	C1017	151- 1- A8	
Radio Capacitor (7.5L)	18801	LH side of engine, near ignition coil	C1017	151- 4-F10	
Radio Jumper	19B113	Behind center of I/P	C257, C258	151- 9- A4	130-3
Rear Anti-lock Brake (RABS) Module	2C018	Behind RH side of I/P, behind glove compartment	C277	151- 9- C1	42-3
Rear Axle Sensor	6C315	On axle assembly	C404	151- 12-E10	
Rear Body Marker Lamps	15425	Center rear of vehicle	C410	151- 14-E10	
Rear Dome Lamp	13776	Center of roof, in rear passenger compartment	C908	*	
Rear Map Lamps	13776	Center of roof, in rear passenger compartment	C907	*	
Rear Park/Stop/Turn Lamps	13405	Rear of vehicle, on respective sides	C431	151- 14- F3	
Rear Park/Stop/Turn Lamps	13404	Rear of vehicle, on respective sides	C432	151- 14-C10	
Rear Tank Fuel Gauge Sender (Diesel)	9275	Below RH rear of vehicle, in rear fuel tank	C427	151- 12-E10	
Rear Tank Fuel Pump/Fuel Gauge Sender (All Gasoline Engines Except Chassis Cab with 185" Wheel Base)	9H307	Below RH rear of vehicle in center of rear fuel tank	C441	151- 12-D10	
Rear Tank Fuel Pump/Fuel Gauge Sender (Chassis Cab with 185" Wheel Base Only)	9H307	Below RH rear of vehicle in front of rear fuel tank	C441	151- 12-C10	
Remote Keyless Entry (RKE) Module	15K602	Behind LH side of I/P	C240, C241	151- 9-B10	111-7, 8
Remote Keyless Entry (RKE) Module	15K602	Behind LH side of I/P	C242	151- 9-B10	111-7, 8
Right Battery	*	Left front of engine compartment	*	151- 8- A4	
Right Front Courtesy Lamp Switch	13713	On front of RH front door jamb	C262	151- 14- C1	
Right Front Door Courtesy Lamp	13776	In lower rear of RH front door	C606	151- 14- A6	
Right Front Door Lock Motor	218A42	In rear of RH front door	C602	151- 13-D10	
Right Front Door Speaker	18808	In top front of RH front door	C607	151- 13-C10	
Right Front Window/Door Lock Control Switch	14028	Center of RH front door	C603	151- 13-E10	100-4, 110-3
Right Front Window Motor	23394	In lower front of RH front door	C600	151- 13- F8	

\* Not Available



# LOCATION INDEX 152-12

1997 F-250 HD/350/SUPER DUTY

<u>Component</u>	<u>Base Part No.</u>	<u>Location</u>	<u>Connector</u>	<u>Page Zone</u>	<u>Connector Page</u>
Right License Lamp	13550	Center right side of bumper	C436	151- 14-E10	
Right Power Lumbar Compressor Motor (With Bolster Seat)	*	Under front of RH front seat	C306	151- 11- F3	
Right Power Lumbar Switch (With Bolster Seat)	*	RH side of RH front seat	C306	151- 11- C1	
Right Power Lumbar Compressor Motor (Without Bolster Seat)	65530	Under front of RH front seat	C317	151- 11- F3	
Right Power Lumbar Switch (Without Bolster Seat)	14C715	RH side of RH front seat	C306	151- 11- C1	
Right Power Mirror	17683	Top front of RH front door	C608	151- 13- A9	
Right Rear Courtesy Lamp Switch	13713	On front of LH rear door jamb	C322	151- 17- A8	
Right Rear Door Courtesy Lamp	13776	In lower rear of RH rear door	C800	151- 17- A9	
Right Rear Door Lock Motor	218A42	In rear of RH rear door	C801	151- 16-E10	
Right Rear Park/Stop/Turn Lamp (All Except Chassis Cab)	*	Rear right quarter panel	C432	151- 14-C10	
Right Rear Park/Stop/Turn Lamp (Chassis Cab)	*	Rear right quarter panel	C450	151- 14-C10	
Right Rear Speaker	18932/18971	RH rear of cab, behind trim panel	C327	151- 13-E10	
Right Rear Window Control Switch	*	Center of RH rear door	C803	151- 16-C10	100-6
Right Rear Window Motor	*	In lower front of RH rear door	C802	151- 16-E10	
RKE Program Connector	*	Behind LH side of I/P	C243	*	
Seat Belt Switch	611A72	Inside LH front seat belt buckle assembly	C302	151- 11- A6	
Secondary Air Injection Bypass (AIRB) Solenoid (7.5L)	9H465	LH side of engine, near ignition coil	C1022	151- 4- A7	
Secondary Air Injection Diverter (AIRD) Solenoid (5.8L 49 States or Super Duty)	9H465	Top LH rear of engine, near rear of LH valve cover	C1023	151- 3- A3	
Secondary Air Injection Diverter (AIRD) Solenoid (7.5L)	9H465	Top LH rear of engine, near rear of LH valve cover	C1023	151- 4- A7	
Shift Lock Actuator	3E723	In steering column	C236	151- 10- A6	
Shift Lock Resistor	*	In steering column	*		

\* Not Available

# 152-13 LOCATION INDEX

1997 F-250 HD/350/SUPER DUTY

<u>Component</u>	<u>Base Part No.</u>	<u>Location</u>	<u>Connector</u>	<u>Page Zone</u>	<u>Connector Page</u>
Side Body Marker Lamps	15C400	On front and rear of respective rear quarter panels	C411, C412	151- 17- F4	
Side Body Marker Lamps	15C400	On front and rear of respective rear quarter panels	C413, C420	151- 17-B10	
Speed Control/Horn Switch Assembly	9C888	In steering wheel	C219	151- 10- A9	31-5
Speed Control Servo/Amplifier Assembly	9A825	LH side of engine compartment, near brake master cylinder	C216	151- 2- A9	31-5
SPOUT Check Connector (5.8L)	*	LH rear of engine compartment, taped to harness, near ignition control module (ICM)	C1019	151- 3-C10	
SPOUT Check Connector (7.5L)	*	LH rear of engine compartment, taped to harness, near ignition control module (ICM)	C1019	151- 4-D10	
Starter Motor (5.8L)	11001	Lower RH side of engine		151- 1- A1	
Starter Motor (7.3L)	11001	Lower RH side of engine		*	
Starter Motor (7.5L)	11001	Lower RH side of engine		151- 4- B1	
Starter Relay (5.8L)	11450	Front of RH fender apron, behind battery		151- 1- D1	
Starter Relay (7.3L)	11450	Front of RH fender apron, behind right battery		151- 6- C1	
Starter Relay (7.5L)	11450	Front of RH fender apron, behind battery		151- 4- D1	
Starter Solenoid (5.8L)	11001	Lower RH side of engine, above starter motor	C116	151- 1- A1	
Starter Solenoid (7.3L)	11001	Lower RH side of engine, above starter motor	C116	*	
Starter Solenoid (7.5L)	11001	Lower RH side of engine, above starter motor	C116	151- 4- A3	
Throttle Position Sensor (TPS)					
(5.8L)	9B989	Top RH front of engine, on throttle body	C1024	151- 1- F3	
Throttle Position Sensor (TPS) (7.5L)	9B989	Top LH side of engine, on side of throttle body	C1026	151- 4- A5	
Trailer/Camper Adapter Connector					
(Class I)	*	Under rear bumper	C451	151- 12- F8	
Trailer/Camper Adapter Connector					
(Class II)	*	Under rear bumper	C417	151- 16- F8	95-8
Trailer Relay Box	14A067	LH side of engine compartment, in engine compartment fuse box		151- 5D10	
Transmission Control Switch	7G550	Top of steering column	C275	151- 10-C10	
Transmission Range (TR) Sensor					
(E4OD Transmission)	7F293	Below center of vehicle, LH side of transmission	C1012	151- 12- B1	30-7, 93-3

\* Not Available

# LOCATION INDEX 152-14

1997 F-250 HD/350/SUPER DUTY

<u>Component</u>	<u>Base Part No.</u>	<u>Location</u>	<u>Connector</u>	<u>Page Zone</u>	<u>Connector Page</u>
Turn Flasher .....	13350 .....	Behind LH side of I/P, on front of fuse panel .....		151- 10-E10	
Vapor Management Valve .....	* .....	Rear center of engine compartment .....	C107 .....	151- 1- A2	
VIP Data Link Connector (5.8L 49 States or Super Duty) .....	14489 .....	LH rear of engine compartment, on bracket ...	C198 .....	151- 1-A10 .....	26-11
VIP Data Link Connector (7.5L 49 States or Super Duty) .....	14489 .....	LH rear of engine compartment, on bracket ...	C198 .....	151- 4-B10 .....	26-11
VIP Data Link Connector (5.8L 49 States or Super Duty) .....	14489 .....	LH rear of engine compartment, on bracket ...	C199 .....	151- 1-B10	
VIP Data Link Connector (7.5L 49 States or Super Duty) .....	14489 .....	LH rear of engine compartment, on bracket ...	C199 .....	151- 4-B10	
Warning Chime Module .....	10D840 .....	Behind lower center of I/P .....	C280 .....	151- 10- F6 .....	66-2
Water in Fuel Sensor .....	9J308 .....	RH side of engine, near fuel filter .....	C1056 .....	151- 7- F8	
Windshield Washer Pump Motor (5.8L) .	17B613 .....	Lower LH front of engine compartment, in windshield washer fluid reservoir .....	C1030 .....	151- 2-D10	
Windshield Washer Pump Motor (7.3L) .	17B613 .....	LH side of engine compartment, in windshield washer fluid reservoir .....	C1030 .....	151- 7- C1	
Windshield Washer Pump Motor (7.5L) .	17B613 .....	Lower LH front of engine compartment, in windshield washer fluid reservoir .....	C1030 .....	151- 5-E10	
Windshield Wiper Motor .....	17504 .....	Top LH side of safety wall .....	C151 .....	151- 2- A5 .....	81-2
Wiper Control Module .....	17D539 .....	Behind RH side of I/P, near top of cowl panel ..	C224 .....	151- 9- C1 .....	81-2

<u>Connector</u>	<u>Location</u>	<u>Page Zone</u>	<u>Connector Page</u>	<u>Color</u>	<u>Terminal</u>
C101 (5.8L) .....	LH side of engine compartment, side of wheel well .....	151- 1-C10 ...	150-1 .....	BK	42
C101 (7.5L) .....	LH side of engine compartment, side of wheel well .....	151- 4-E10 ...	150-1 .....	BK	42
C102 (5.8L) .....	Near LH frame rail, below driver floor pan .....	151- 2-A10 .....		BK	2
C102 (7.3L Diesel) .....	Left rear of engine compartment, on brake pressure switch .....	151- 7- A7 .....		BK	2
C103 (5.8L) .....	LH side of engine compartment, top of wheel well .....	151- 2- F6 ...	150-2 .....	BK	16
C103 (7.5L) .....	LH side of engine compartment, top of wheel well .....	151- 5-B10 ...	150-2 .....	BK	16
C104 .....	LH side of engine compartment, side of wheel well .....	* .....		GY	4
C105 (5.8L) .....	LH side of engine compartment, top of wheel well .....	151- 3-B10 .....		BK	4
C105 (7.5L) .....	LH side of engine compartment, top of wheel well .....	151- 5-B10 .....		BK	4
C106 (5.8L) .....	RH rear of engine compartment, near blower motor .....	151- 2- B1 .....		BK	4

\* Not Available

# 152-15 LOCATION INDEX

1997 F-250 HD/350/SUPER DUTY

Connector	Location	Page	Connector	Color	Terminal
		Zone	Page		
C106 (7.3L)	RH rear of engine compartment, near blower motor	151- 6-	A1	BK	4
C106 (7.5L)	RH rear of engine compartment, near blower motor	151- 5-	A2	BK	4
C107	Rear center of engine compartment	151- 1-	A2		2
C108 (200 Amp Alternator)	RH side of engine compartment, near starter relay	151- 8-	C10	150-2	GY 8
C108 (Diesel)	RH side of engine compartment, near starter relay	151- 6-	D1	150-2	GY 8
C110 (5.8L Under 8500 GVW)	LH side of engine compartment, top of wheel well	151- 2-	F6	150-3	BK 8
C110 (7.3L)	LH side of engine compartment, top of wheel well	*		150-3	BK 8
C110 (7.5L)	LH side of engine compartment, top of wheel well	151- 5-	A6	150-3	BK 8
C111	LH rear of engine compartment	*			BK 4
C112	RH front of engine, on leece/neville alternator	151- 8-	F3		
C114 (5.8L under 8500 GVW) (California Except Super Duty)	Center front of engine, on timing chain cover	151- 1-	A4	*	2
C116 (5.8L)	Lower RH side of engine, on starter solenoid	151- 1-	A1	*	1
C116 (7.3L)	Lower RH side of engine, on starter solenoid	*		*	1
C116 (7.5L)	Lower RH side of engine, on starter solenoid	151- 4-	A3	*	1
C117 (E4OD Transmission)	Below center of vehicle, near LH rear of transmission	*		GY	4
C117 (S5-42 ZF Transmission)	Below center of vehicle, near LH rear of transmission	*		GY	4
C118	RH front of engine, on leece/neville alternator	151- ??-	F3	BK	1
C119	RH front of engine, on attenuator	151- ??-	A1	*	1
C126 (5.8L)	LH side of engine compartment, on A/C high pressure cut out switch	151- 2-	A4	BK	4
C126 (7.3L Diesel)	LH side of engine compartment, on A/C high pressure cut out switch	151- 6-	A7	BK	4
C126 (7.5L)	LH side of engine compartment, on A/C high pressure cut out switch	151- 4-	F6	BK	4
C128	LH side of engine compartment, on injector driver module	151- 7-	C10	28-11	BK 40
C130 (5.8L California Except Super Duty)	Top center of safety wall, on mass air flow sensor	151- 1-	D10	27-10	BK 6
C130 (7.5L California Except Super Duty)	Top center of safety wall, on mass air flow sensor	*		27-10	BK 6

\* Not Available

# LOCATION INDEX 152-16

1997 F-250 HD/350/SUPER DUTY

<u>Connector</u>	<u>Location</u>	<u>Page Zone</u>	<u>Connector</u>		
			<u>Page</u>	<u>Color</u>	<u>Terminal</u>
C131	RH front of engine compartment, on ambient temperature sensor	*		BK	2
C135 (5.8L)	Lower LH front of engine, on oil pressure switch	151- 2-	A3	BK	1
C135 (7.3L)	Top center rear of engine, on oil pressure switch	151- 7-	F2	BK	1
C135 (7.5L)	Top center rear of engine, on oil pressure switch	151- 5-	A5	BK	1
C138 (7.3L Diesel)	LH side of engine compartment, top of wheel well	151- 7-	A8 150-4	BK	42
C139 (5.8L)	RH front of engine compartment, behind battery	151- 2-	C1	BK	4
C139 (7.5L)	RH front of engine compartment, behind battery	151- 5-	C1	BK	4
C143 RABS Data Link Connector (5.8L)	LH rear of engine compartment, on bracket	151- 3-	A9 42-3	BK	2
C143 RABS Data Link Connector (7.3L)	Behind lower center of I/P	151- 6-	A10 42-3	BK	3
C143 RABS Data Link Connector (7.5L)	LH rear of engine compartment, on bracket	151- 4-	B10 42-3	BK	2
C144	Front of engine, on camshaft position sensor	151- 6-	F4	*	2
C145	RH side of engine, on exhaust back pressure sensor	151- 6-	D1	*	3
C146	Top LH side of engine, on injection control pressure sensor	151- 7-	A5	*	3
C149 (5.8L)	LH side of engine compartment, top of wheel well	151- 3-	B9	GY	4
C149 (7.5L)	LH side of engine compartment, top of wheel well	151- 5-	B10	GY	4
C150 (5.8L)	Top LH front of engine, on coolant temperature sender	151- 3-	C1	BK	1
C150 (7.3L)	Top LH front of engine, on coolant temperature sender	151- 6-	F5	BK	1
C150 (7.5L)	Top RH front of engine, on coolant temperature sender	151- 5-	A4	BK	1
C151	Top LH side of safety wall, on windshield wiper motor	151- 2-	A5 81-2	*	6
C153 (5.8L)	RH front of engine, on generator/voltage regulator	151- 2-	F5	BK	3
C153 (7.5L)	RH front of engine, on generator/voltage regulator	151- 5-	F4	BK	3
C154 (5.8L)	RH front of engine, on generator/voltage regulator	151- 2-	F5	BK	3
C154 (7.5L)	RH front of engine, on generator/voltage regulator	151- 5-	F5	BK	3
C155	Top center of engine, on exhaust pressure regulator	151- 6-	A3	*	2
C156	Top center of engine, on injection pressure regulator	151- 7-	F5	*	2
C158	On LH frame rail, near RABS valve assembly	151- 15-	C1	BK	4
C159	Behind RH side of I/P, near RABS module	151- 9-	E1	BK	1
C161 (E4OD Transmission)	Front of transfer case, near 4x4 hi/low indicator switch	151- 12-	D1	BK	2
C161 (Mazda M5OD Transmission)	Front of transfer case, near 4x4 hi/low indicator switch	151- 15-	D1	BK	2
C162 (5.8L)	RH rear of engine compartment, on A/C clutch cycling pressure switch	151- 2-	A2	GY	3

\* Not Available

# 152-17 LOCATION INDEX

1997 F-250 HD/350/SUPER DUTY

<u>Connector</u>	<u>Location</u>	<u>Page</u> <u>Zone</u>	<u>Connector</u> <u>Page</u>	<u>Color</u>	<u>Terminal</u>
C162 (7.3L)	RH rear of engine compartment, on A/C clutch cycling pressure switch.	151- 7- B1		GY	3
C162 (7.5L)	RH rear of engine compartment, on A/C clutch cycling pressure switch	151- 5- A3		GY	3
C163 (5.8L)	LH front of engine, on A/C clutch field coil	151- 2- F5		BK	2
C163 (7.3L) Diesel	LH front of engine, on A/C clutch field coil	151- 7- F7		BK	2
C163 (7.5L)	LH front of engine, on A/C clutch field coil	151- 5- F5		BK	2
C164 (5.8L)	Top center front of engine, on intake air temperature (IAT) sensor	151- 1-D10		BK	2
C164 (7.3L)	Top center front of engine, on intake air temperature (IAT) sensor	151- 6-C10		BK	2
C164 (7.5L)	Top center of engine, on intake air temperature (IAT) sensor	151- 4- F4		BK	2
C165 (7.3L)	Top RH front of engine, on alternator	151- 6- A1		BK	2
C166 (Mazda M5OD Transmission)	Top LH side of transmission, on backup lamp switch	151- 15- B1		BK	2
C166 (S5-42 ZF Transmission)	Top LH side of transmission, on backup lamp switch	151- 15- E1		BK	2
C168 (5.8L)	RH side of safety wall, near blower motor	151- 2- B1		BK	2
C168 (7.3L)	RH side of safety wall, near blower motor	151- 7- C1		BK	2
C168 (7.5L)	RH side of safety wall, near blower motor	151- 5- B1		BK	2
C169 (5.8L)	RH side of safety wall, on blower motor resistor	151- 2- A1		W	4
C169 (7.3L)	RH side of safety wall, on blower motor resistor	151- 7- A1		W	4
C169 (7.5L)	RH side of safety wall, on blower motor resistor	151- 5- B1		W	4
C170 (5.8L)	LH rear of engine compartment, on brake fluid level switch	151- 2- A8		GY	3
C170 (7.3L)	LH rear of engine compartment, on brake fluid level switch	151- 6- A8		GY	3
C170 (7.5L)	LH rear of engine compartment, on brake fluid level switch	151- 5- A9		GY	3
C171 (5.8L 49 States or Super Duty)	RH front of engine, on canister purge solenoid	151- 3- F3		BK	2
C171 (7.5L 49 States or Super Duty)	RH side of engine, on canister purge solenoid	151- 4- C1		BK	2
C173	LH rear of engine compartment, near hood hinge	151- 2- A6		BK	4
C176	RH side of engine, near blower motor on MAP sensor	151- 6 A2		*	4
C177 (Without DRL)	Front LH side of lower radiator support, on daytime running lamps (DRL) jumper	151- 2- F8		BK	8
C177 (With DRL)	Front LH side of lower radiator support, on daytime running lamps (DRL) module	151- 2-F10 ... 97-2		BK	8
C178 (5.8L)	Top center front of engine, near distributor	151- 1- F8 ... 21-2		*	8

\* Not Available

# LOCATION INDEX 152-18

1997 F-250 HD/350/SUPER DUTY

<u>Connector</u>	<u>Location</u>	<u>Page</u> <u>Zone</u>	<u>Connector</u> <u>Page</u>	<u>Color</u>	<u>Terminal</u>
C178 (7.5L)	Top LH front of engine, to distributor	151- 4- F6	21-2	*	8
C180 (5.8L)	Top LH side of engine, on EGR control solenoid	151- 1- A6		BK	2
C180 (7.5L)	Top LH side of engine, on EGR control solenoid	151- 4- A6			
C181	LH side of engine compartment, on EGR vacuum regulator control solenoid	*		BK	2
C182 (5.8L 49 States or Super Duty)	Top RH front of engine, on delta pressure feedback EGR (DPFE) sensor	151- 1- D1		BK	3
C182 (7.5L)	LH rear of engine, on EGR valve position (EVP) sensor	151- 4- A5		BK	3
C183 (5.8L)	Center front of engine, on engine coolant temperature (ECT) sensor	151- 1- F4		BR	2
C183 (7.3L)	LH front of engine, on engine oil temperature (ECT) sensor	151- 6- F6		BR	2
C183 (7.5L)	LH front of engine, on engine coolant temperature (ECT) sensor	151- 4- F5		BR	2
C184	Top LH front of engine, to engine speed sensor	*		BK	2
C185 (5.8L Over 8500 GVW) (49 States or Super Duty)	LH side of safety wall, on powertrain control module (PCM)	151- 1-C10	26-9	GY	60
C185 (7.5L Over 8500 GVW) (49 States or Super Duty)	LH side of safety wall, on powertrain control module (PCM)	151- 4- A9	26-9	GY	60
C186	Top RH front of engine, on engine temperature switch	*		*	
C188 (Diesel)	RH side of engine, on top of fuel filter/heater	151- 6- A4			
C190 (5.8L)	Top RH front of engine, on fuel injector #1	151- 1- F7		BK	2
C190 (7.5L)	Top RH front of engine, on fuel injector #1	151- 4- E1		BK	2
C191 (5.8L)	Top RH side of engine, on fuel injector #2	151- 1- F7		BK	2
C191 (7.5L)	Top RH side of engine, on fuel injector #2	151- 4- E1		BK	2
C192 (5.8L)	Top RH side of engine, on fuel injector #3	151- 1- F7		BK	2
C192 (7.5L)	Top RH side of engine, on fuel injector #3	151- 4- E1		BK	2
C193 (5.8L)	Top RH rear of engine, on fuel injector #4	151- 1- F7		BK	2
C193 (7.5L)	Top RH rear of engine, on fuel injector #4	151- 4- E1		BK	2
C194 (5.8L)	Top LH front of engine, on fuel injector #5	151- 1- F7		BK	2
C194 (7.5L)	Top LH front of engine, on fuel injector #5	151- 4- E1		BK	2

\*Not Available

# 152-19 LOCATION INDEX

1997 F-250 HD/350/SUPER DUTY

Connector	Location	Page Zone	Connector		Terminal
			Page	Color	
C195 (5.8L)	Top LH side of engine, on fuel injector #6	151- 1- F7	BK		2
C195 (7.5L)	Top LH side of engine, on fuel injector #6	151- 4- E1	BK		2
C196 (5.8L)	Top LH side of engine, on fuel injector #7	151- 1- F7	BK		2
C196 (7.5L)	Top LH side of engine, on fuel injector #7	151- 4- E1	BK		2
C197 (5.8L)	Top LH rear of engine, on fuel injector #8	151- 1- F7	BK		2
C197 (7.5L)	Top LH rear of engine, on fuel injector #8	151- 4- E1	BK		2
C198 VIP Data Link Connector (5.8L Over 8500 GVW)	LH rear of engine compartment, on bracket	151- 1-A10	26-11	GY	6
C198 VIP Data Link Connector (7.3L)	LH rear of engine compartment, on bracket	*	26-11	GY	6
C198 VIP Data Link Connector (7.5L Over 8500 GVW)	LH rear of engine compartment, on bracket	151- 4-B10	26-11	GY	6
C199 VIP Data Link Connector (5.0L) (5.8L Over 8500 GVW)	LH rear of engine compartment, on bracket	151- 1-B10		GY	1
C199 VIP Data Link Connector (7.5L Over 8500 GVW)	LH rear of engine compartment, on bracket	151- 4-B10		GY	1
C200	Behind LH cowl panel	151- 9- F7	150-5	GY	8
C201	Behind RH cowl panel	151- 13- F6		GY	2
C202	LH rear of engine compartment, in safety wall	151- 2- A8	150-6, 7	*	76
C203	Behind RH cowl panel	151- 13- A7	150-8	BR	6
C204	Behind lower center of I/P, near RH side of ashtray assembly	151- 10- F3		BK	4
C205	LH rear of engine compartment, in safety wall	151- 2- A7	150-9	BK	24
C206	Behind lower center of I/P	151- 9- E1		*	4
C207	Behind lower LH side of I/P, on fuse panel	151- 10-D10		W	1
C208		*			6
C210	Behind lower center of I/P	151- 9- F2	150-10	GY	6
C211	Behind center of I/P, on radio	*	130-4	*	8
C212	Behind center of I/P, on premium sound amplifier	151- 10- A5	130-4	BK	14
C213	Behind RH cowl panel	151- 13- F6	150-11	GN	8
C214	Behind LH cowl panel	151- 13- F3	150-11	GY	8
C215	Behind LH cowl panel	*	150-12	BR	6

\* Not Available



# LOCATION INDEX 152-20

1997 F-250 HD/350/SUPER DUTY

<u>Connector</u>	<u>Location</u>	<u>Page</u> <u>Zone</u>	<u>Connector</u>		
			<u>Page</u>	<u>Color</u>	<u>Terminal</u>
C216	LH side of engine compartment, on speed control servo/amplifier assembly	151- 2- A9	31-5	*	10
C219	RH side of steering column, to brush assembly and ignition key warning switch	151- 9-F10	31-5	GY	10
C224	Behind RH side of I/P, on wiper control module	151- 9- C1	81-2	N	14
C227	Behind lower center of I/P	151- 9- E1	28-12, 27-10	BK	16
C228	Behind RH cowl panel	151- 13- A8	150-12	GY	8
C229	Behind LH cowl panel	151- 9- F8	150-13	GY	16
C230	Top of steering column, on multi-function switch	151- 10-B10	90-5	*	7
C231	Top of steering column, on multi-function switch	151- 10-B10	90-5	GY	10
<b>C232 Enable PSOM Programming</b>					
Connector	Behind lower RH side of I/P, below glove compartment	151- 10- E1		BR	1
C234	Behind lower center of I/P, on auxiliary power socket	151- 10- F7		BR	2
C235	Behind LH cowl panel	151- 13- F2	150-13	*	8
C236	In steering column, on shift lock actuator	151- 10- A6		BK	3
C240	Behind LH side of I/P, remote keyless entry module	151- 9-B10	111-7	GY	13
C241	Behind LH side of I/P, remote keyless entry module	151- 9-B10	111-8	BK	16
C242	Behind LH side of I/P, remote keyless entry module	151- 9-B10	111-7	BK	13
C243	Behind LH side of I/P, near RKE module	*		GY	2
C244	Near accelerator pedal, on idle validation switch	151- 9- F6		*	2
C250	Behind top LH side of I/P, on instrument cluster	151- 9- A6	60-9	BK	14
C251	Behind top LH side of I/P, on instrument cluster	*	60-9	GY	12
C252	Behind top LH side of I/P, on PSOM	151- 9- A8	60-8	BK	12
C257	Behind top center of I/P, on radio	151- 9- A4	130-3	BK	8
C257	Behind top center of I/P, on radio	151- 9- A4	150-14	BK	8
C258	Behind top center of I/P, on radio	151- 9- A4	130-3	BK	8
C258	Behind top center of I/P, on radio	151- 9- A4	150-14	BK	8
C260	Behind center of I/P, on blower motor switch	151- 10- A4		GY	4
C261 (Automatic)	Behind LH side of I/P, on clutch pedal position switch jumper	151- 9- F4		BK	6
C261 (Manual)	Behind LH side of I/P, on clutch pedal position switch	151- 9- F4	20-5	BK	6
C262	In front of RH front door jamb, on right front courtesy lamp switch	151- 14- C1		N	3

\* Not Available

# 152-21 LOCATION INDEX

1997 F-250 HD/350/SUPER DUTY

<u>Connector</u>	<u>Location</u>	<u>Page Zone</u>	<u>Connector Page</u>	<u>Color</u>	<u>Terminal</u>
C263	In lower rear of LH front door jamb, on left front courtesy lamp switch	151- 14- D1		GY	3
C264	Behind top LH side of I/P, on diesel warning lamps display	151- 9- A5	65-2	BK	8
C265	Behind top center of I/P, on radio	151- 9- A4	130-3		
C266	Behind top center of I/P, on radio	151- 9- A4	130-3		
C268	Behind top LH side of I/P, on fuel tank selector switch	151- 10-D10	49-3	GY	6
C268	Behind top LH side of I/P, on fuel tank selector switch	151- 10-D10	49-4	GY	6
C269	Top RH side of steering column, on ignition switch	*	13-24		15
C269	Top RH side of steering column, on ignition switch	*	20-5		15
C269	Top RH side of steering column, on ignition switch	*	149-2		15
C271	Behind RH cowl panel, on inertia fuel shutoff	151- 12- A7		GY	3
C273	Behind top LH side of I/P, on main light switch	151- 9-C10	13-24	GY	9
C273	Behind top LH side of I/P, on main light switch	151- 9-C10	71-2	GY	9
C273	Behind top LH side of I/P, on main light switch	151- 9-C10	149-1	GY	9
C275	Top of steering column, near transmission control switch	151- 10-C10		*	3
C276	Behind LH side of I/P, on park brake switch	151- 9- F8		BK	1
C277	Behind RH side of I/P, on rear RABS module	151- 9- C1	42-3	BK	14
C279	Behind LH side of I/P, on brake ON/OFF switch	151- 9- F7		BK	2
C280	Behind lower center of I/P, on warning chime module	151- 10- F6	66-2	GY	7
C282	Behind center of I/P, on radio	*	130-5	*	8
C283	Behind center of I/P	*	130-5	*	8
C292	Behind RH side of I/P, on glove compartment lamp	151- 10- B1		BR	2
C293	Behind lower center of I/P, on ashtray illumination	151- 10- F5		BK	2
C294	Behind lower center of I/P, on cigar lighter	151- 10- F4		*	1
C295	Behind lower center of I/P, on cigar lighter	151- 10- F4		BK	1
C296 (With A/C)	Behind center of I/P, on A/C-heater control assembly	151- 10- A2		W	4
C296 (Without A/C)	Behind center of I/P, on heater control assembly	151- 10- A2		W	4
C298	Behind center of I/P, on heater control illumination	151- 10- A3		BK	2
C300	At base of LH "B" pillar	151- 14- E1	150-15	GY	8
C301	At base of RH "B" pillar	*		BK	4
C302	Below RH side of LH front seat, to seat belt switch	151- 11- A7		GY	2
C303	At base of RH "B" pillar	151- 16- F7		GY	4

\* Not Available

# LOCATION INDEX 152-22

1997 F-250 HD/350/SUPER DUTY

<u>Connector</u>	<u>Location</u>	<u>Page Zone</u>	<u>Connector Page</u>	<u>Color</u>	<u>Terminal</u>
C304	At base of LH "B" pillar	151- 16- F5		GY	4
C305	Under LH side of LH front seat, to left power lumbar switch	151- 11- F8		GY	2
C306	Under RH side of RH front seat, to right power lumbar switch	151- 11- C1		GY	2
C307	RH side of vehicle, in rear door pillar	151- 16- F7			
C308	LH side of vehicle, in rear door pillar	151- 16- F5			
C311	Center of tailgate, near rear window, on rear window defrost grid	*		BK	1
C312 (With Captain Chairs)	Under front of LH front seat, on left power lumbar motor	151- 11- F6		BK	2
C312 (Without Captain Chairs)	Under front of front seat, on power lumbar motor	*		BK	2
C313	Below LH front seat	151- 11-C10		GY	2
C314	Below RH front seat	151- 11- A3		GY	2
C315	At base of LH "B" pillar	*		BR	4
C317	Under front of RH front seat, on right power lumbar motor	151- 11- F3		BK	2
C318	LH rear of cargo area, near center of "D" pillar	*		BR	6
C320	In center of roof	151- 17- A6		BK	2
C321	In front of LH rear door jamb, on left rear courtesy lamp switch	151- 17- D1		*	3
C322	In front of RH rear door jamb, on right rear courtesy lamp switch	151- 17- A8		*	3
C326	LH rear of cab, on left rear speaker	151- 13- A5		GY	2
C327	RH rear of cab, on right rear speaker	151- 13-E10		GY	2
C400	Under center rear of vehicle, near rear crossmember	151- 14- F7		GY	4
C401	Under LH rear of vehicle, near rear crossmember	151- 14- F6	150-15	GY	8
C404	On rear axle	151- 12-E10		BK	2
C405	Under LH rear of vehicle, on frame rail, near fuel tank	*		GY	4
C407	Under center rear of vehicle, near rear crossmember	*		BK	4
C408	Under RH rear corner of vehicle	151- 17-D10		BK	4
C409	Under LH rear corner of vehicle	151- 14- F5		BK	4
C410	Under center rear of vehicle, near body marker lamps	151- 14-B10		BK	4
C411	In LH rear quarter panel, forward of wheel well, to left rear side body marker lamp	151- 17- F4		BK	4
C412	In LH rear quarter panel, behind wheel well, to left rear side body marker lamp	151- 17- F4		BK	4

\* Not Available

# 152-23 LOCATION INDEX

1997 F-250 HD/350/SUPER DUTY

<u>Connector</u>	<u>Location</u>	<u>Page Zone</u>	<u>Connector Page</u>	<u>Color</u>	<u>Terminal</u>
C413	In RH rear quarter panel, forward of wheel well, to right rear side body marker lamp	151- 17- B9		BK	4
C417 (49 States or Super Duty)	Under rear bumper	151- 16- F8	95-8	*	7
C418	Under LH rear of vehicle, near rear lamp assembly	151- ??- F7		*	4
C420	In RH rear quarter panel, behind wheel well, to right rear side body marker lamp	151- 17- B9		BK	4
C421	Top RH side of front fuel tank, on front tank fuel gauge sender	151- 12- F6		GY	2
C423	Under LH side of vehicle, at frame rail, on fuel tank selector valve	151- 12- F5	49-3	GY	6
C424	Under center rear of vehicle, near rear crossmember	151- 17- F9		GY	4
C427	Top RH side of rear fuel tank, on rear tank fuel gauge sender	151- 12-E10		GY	2
C431 (Without Chassis Cab)	LH rear of vehicle, on left rear park/stop/turn lamp	151- 14- F3		BK	3
C432 (Without Chassis Cab)	RH rear of vehicle, on right rear park/stop/turn lamp side body marker lamp	151- 14-C10		BK	3
C433	LH rear of vehicle, on left backup lamp	151- 17- F6		BK	2
C434	RH rear of vehicle, on right backup lamp	151- 17-D10		BK	2
C435	Center rear of vehicle, on license lamp	151- 14-E10		BK	2
C436	Center rear of vehicle, on license lamp	151- 14-E10		BK	2
C440	Top RH side of front fuel tank, on front tank fuel pump/fuel gauge sender	151- 12- F6		BK	4
C441 (All Except Chassis Cab and 185" Wheel Base)	Top RH side of rear fuel tank, on rear tank fuel pump/fuel gauge sender	151- 12-D10		BK	4
C441 (Chassis Cab with 185" Wheel Base)	Top RH side of rear fuel tank, on rear tank fuel pump/fuel gauge sender	151- 12-C10		BK	4
C446	Lower rear of vehicle, near license plate, on license lamp	*		BK	1
C447	LH rear of vehicle, on left backup lamp	151- 14- F4		BK	1
C448	RH rear of vehicle, on right backup lamp	151- 14-D10		BK	1
C449 (Chassis Cab)	LH rear of vehicle, on left rear park/stop/turn lamp	151- 14- F3		BK	2

\* Not Available

# LOCATION INDEX 152-24

1997 F-250 HD/350/SUPER DUTY

<u>Connector</u>	<u>Location</u>	<u>Page Zone</u>	<u>Connector Page</u>	<u>Color</u>	<u>Terminal</u>
C450 (Chassis Cab)	RH rear of vehicle, on left rear park/stop/turn lamp	151- 14-C10		BK	2
C451 (49 States or Super Duty)	Under rear bumper	151- 12- F8		*	4
C500	In lower front of LH front door, to left front window motor	151- 13- E1		GY	2
C502	In rear of LH front door, on left front door lock motor	151- 13- D1		*	2
C503	In center of LH front door, on master window control switch and left door lock control switch	151- 16- B1	100-5	BK	16
C503	In center of LH front door, on master window control switch and left door lock control switch	151- 16- B1	110-4	BK	16
C504	In lower rear of LH front door, on left front door courtesy lamp	151- 14- C1		BK	2
C505	In center of LH front door, on master window control switch and left door lock control switch	151- 13- A1	100-4	BK	15
C505	In center of LH front door, on master window control switch and left door lock control switch	151- 13- A1	110-3	BK	15
C507	In top front of LH front door, on left front door speaker	151- 13- A3		GY	2
C508	In front of LH front door, to left power mirror	151- 13- A2		*	4
C509	Behind RH cowl panel	151- 13- A8		GY	3
C550	In center of LH front door, near power mirror switch	151- 13- C1	124-2	GY	8
C600	In lower front of RH door, to right front window motor	151- 13- F8		GY	2
C602	In rear of RH front door, on right front door lock motor	151- 13-D10		*	2
C603	In center of RH front door, on right window control switch and right door lock control switch	151- 13-E10	100-4	*	10
C603	In center of RH front door, on right window control switch and right door lock control switch	151- 13-E10	110-3	*	10
C606	In lower rear of RH front door, on right front door courtesy lamp	151- 14- A6		BK	2
C607	In top front of RH front door, on right front door speaker	151- 13-C10		GY	2
C608	In front of RH front door, to right power mirror	151- 13-D10		*	4
C700	In lower rear of LH rear door, on left rear door courtesy lamp	151- 17- E1		BK	2
C701	In rear of LH rear door, on left rear door lock motor	151- 16- F3		GY	2,4
C702	In lower front of LH rear door, to right rear window motor	151- 16- F5		GY	2
C703	In center of LH rear door, on window control switch	151- 16- F4	100-6	*	5
C704	In LH rear door, near window control switch	*		BK	6
C800	In lower rear of RH rear door, on right rear door courtesy lamp	151- 17- A9		BK	2

\* Not Available

# 152-25 LOCATION INDEX

1997 F-250 HD/350/SUPER DUTY

<u>Connector</u>	<u>Location</u>	<u>Page Zone</u>	<u>Connector Page</u>	<u>Color</u>	<u>Terminal</u>
C801	In rear of RH rear door, on right rear door lock motor	151- 16-E10		GY	2, 4
C802	On lower front of RH rear door, on right rear window motor	151- 16-E10			
C803	Center of RH rear door, on right rear window control switch	151- 16-C10	100-6		
C804	In RH rear door, near window control switch	*		BK	6
C900	RH side of windshield header, to cab marker lamp	151- 14- A4		BK	1
C901	RH center of windshield header, to cab marker lamp	151- 14- A4		BK	1
C902	Center of windshield header, to cab marker lamp	151- 14- A4		BK	1
C903	LH center of windshield header, to cab marker lamp	151- 14- A3		BK	1
C904	LH side of windshield header, to cab marker lamp	151- 14- A3		BK	1
C905 (With Map Lamps)	Center of roof, on map/dome lamps	151- 14- B1		GY	1
C905 (Without Map Lamps)	Center of roof, on dome lamp	151- 14- B1		GY	1
C906 (With Map Lamps)	Center of roof, on map/dome lamps	151- 14- B1		GY	1
C906 (Without Map Lamps)	Center of roof, on dome lamp	151- 14- B1		GY	1
C907	In rear passenger's compartment, center of roof	*		GY	1
C908	In rear passenger's compartment, center of roof	*		GY	1
C910	Center of rear window header, on cargo lamp	151- 14- A5		BK	3
C1001	RH side of engine, on fuel water switch	151- 7- F4		*	3
C1002	Top center rear of engine, on glow plug relay	151- 7- A2		*	1
C1003 (5.8L)	RH side of engine compartment, behind battery	151- 1- E1		*	4
C1003 (7.5L)	RH side of engine compartment, behind battery	151- 4- D1		*	4
C1004	Top center rear of engine, on glow plug relay	151- 7- A2		*	1
C1005	Front RH side of lower radiator support, on low pitch horn	151- 2- F3		BK	1
C1006	Front RH side of lower radiator support, on high pitch horn	151- 2- F2		BK	1
C1007 (5.8L)	Top RH front of engine, on idle air control valve	151- 1- F6		BK	2
C1007 (7.5L)	Top center of engine, on idle air control valve	151- 4- C1		BK	2
C1008 (5.8L)	LH rear of engine, on ignition coil	151- 1- A7		*	3
C1008 (7.5L)	LH side of engine, on ignition coil	151- 4-D10		*	3
C1010	RH side of engine compartment, on low vacuum warning switch	151- 7-D10		BK	3
C1011 (5.8L Over 8500 GVW)	Top RH side of safety wall, on manifold absolute pressure (MAP) sensor	151- 1- A3		BK	3

\* Not Available

# LOCATION INDEX 152-26

1997 F-250 HD/350/SUPER DUTY

<u>Connector</u>	<u>Location</u>	<u>Page Zone</u>	<u>Connector Page</u>	<u>Color</u>	<u>Terminal</u>
C1011 (7.5L Over 8500 GVW) (49 States or Super Duty)	Top RH side of safety wall, on manifold absolute pressure (MAP) sensor	151- 4- A4		BK	3
C1012 (E4OD)	Below center of vehicle, LH side of E4OD transmission, on transmission range (TR) sensor	151- 12- B1	30-7	BK	8
C1012 (E4OD)	Below center of vehicle, LH side of E4OD transmission, on transmission range (TR) sensor	151- 12- B1	93-3	BK	8
C1013	Top center rear of engine, on glow plug relay	151- 7- A2		*	1
C1014	LH front of engine, on overheat warning switch	151- 6- F3		*	1
C1015	RH side of engine, on plugged fuel filter switch	151- 7- A4		*	1
C1016	Lower LH front of engine compartment, on power steering pressure switch	151- 1- E9		BK	2
C1017 (5.8L)	LH side of engine, near radio capacitor	151- 1- A8		GY	2
C1017 (7.5L)	LH side of engine, near radio capacitor	151- 4-F10		GY	2
C1018	Top center rear of engine, on glow plug relay	151- 7- A2		*	1
C1019 SPOUT Check Connector (5.8L)	LH rear of engine compartment, taped to harness, near ignition control module (ICM)	151- 3-C10		BK	2
C1019 SPOUT Check Connector (7.5L)	LH rear of engine compartment, taped to harness, near ignition control module (ICM)	151- 4-D10		BK	2
C1021 (5.8L)	LH rear of engine compartment, on ignition control module (ICM)	151- 1-B10	21-2	GY	6
C1021 (7.5L)	LH rear of engine compartment, on ignition control module (ICM)	151- 4-C10	21-2	GY	6
C1022 (7.5L)	Top LH rear of engine, on secondary air injection bypass (AIRB) solenoid	151- 4- A7		BK	2
C1023 (5.8L) (49 States or Super Duty)	Top LH rear of engine, on secondary air injection diverter (AIRD) solenoid	151- 3- A3		GY	2
C1023 (7.5L)(F450)	Top LH rear of engine, on secondary air injection diverter (AIRD) solenoid	151- 4- A7		GY	2
C1024	Top RH front of engine, near throttle position sensor (TPS)	151- 1- F3		BK	3
C1025 (5.8L California Except Super Duty)	Lower RH side of engine, to heated oxygen sensor (HO2S)	151- 18-B10		*	4

\* Not Available

# 152-27 LOCATION INDEX

1997 F-250 HD/350/SUPER DUTY

<u>Connector</u>	<u>Location</u>	<u>Page Zone</u>	<u>Connector Page</u>	<u>Color</u>	<u>Terminal</u>
C1025	(5.8L 49 States or Super Duty) . . . . . Lower RH side of engine, to heated oxygen sensor (HO2S) . . . . .	151- 18-D10	.....	*	4
C1025	(7.5L California Except Super Duty) .. Lower RH side of engine, to heated oxygen sensor (HO2S) . . . . .	151- 19- B1	.....	*	4
C1025	(7.5L 49 States or Super Duty) . . . . . Lower RH side of engine, to heated oxygen sensor (HO2S) . . . . .	151- 19-D10	.....	*	4
C1026 (5.8L)	..... Top LH side of engine, on throttle position sensor (TPS) . . . . .	*	.....	BK	3
C1026 (7.5L)	..... Top LH side of engine, on throttle position sensor (TPS) . . . . .	151- 4- A5	.....	BK	3
C1027 (5.8L Under 8500 GVW)	(California Except Super Duty) . . . . . LH side of safety wall, on powertrain control module (PCM) . . . . .	151- 1-C10	... 27-11	... GY	104
C1027	(7.3L California Except Super Duty) .. LH side of safety wall, on powertrain control module (PCM) . . . . .	151- 7-B10	... 28-13	... GY	104
C1027	(7.3L California Except Super Duty) .. LH side of safety wall, on powertrain control module (PCM) . . . . .	151- 7-B10	... 28-15	... GY	104
C1027 (7.5L F250/F350)	(California Except Super Duty) . . . . . LH side of safety wall, on powertrain control module (PCM) . . . . .	151- 4- A9	.... 27-11	... GY	104
C1028	(5.8L California Except Super Duty) .. LH rear of engine, to heated oxygen sensor (HO2S) #21 . . . . .	151- 18- C1			
C1028	(7.5L California Except Super Duty) .. LH rear of engine, to heated oxygen sensor (HO2S) #21 . . . . .	151- 19- D1			
C1029	..... Top RH front of engine, on alternator . . . . .	151- 6- A1	.....	BK	4
C1030 (5.8L)	..... Lower LH front of engine compartment, on windshield washer pump motor . . . . .	151- 2-D10	.....	BK	2
C1030 (7.3L)	..... LH side of engine compartment, on windshield washer pump motor . . . . .	151- 7- C1	.....	BK	2
C1030 (7.5L)	..... Lower LH front of engine compartment, on windshield washer pump motor . . . . .	151- 5-E10	.....	BK	2
C1031	..... LH front of vehicle, on left front park/turn lamp . . . . .	151- 2- F7	.....	BK	3
C1032	..... RH front of vehicle, on right front park/turn lamp . . . . .	151- 2- F4	.....	BK	3
C1033	..... LH front of vehicle, on left headlamp . . . . .	151- 2- F8	.....	BK	3
C1034	..... RH front of vehicle, on right headlamp . . . . .	151- 2- F3	.....	BK	3
C1035	..... LH underside of engine compartment hood, on engine compartment lamp . . . . .	151- 2- A7	.....	GY	2

\* Not Available



# LOCATION INDEX 152-28

1997 F-250 HD/350/SUPER DUTY

<u>Connector</u>	<u>Location</u>	<u>Page</u>	<u>Connector</u>		
		<u>Zone</u>	<u>Page</u>	<u>Color</u>	<u>Terminal</u>
C1037		*		GY	3
C1038		*		*	4
C1047	Left of throttle body	151-	7- B1	150-16	6
C1048	Below center of vehicle, RH side of transmission, on E4OD transmission	151-	12- A3	30-7	GY 12
C1052	RH front of vehicle, on right front side marker lamp	151-	3- E1		BK 2
C1053	RH front of vehicle, on right front side marker lamp	151-	3- E1		BK 2
C1054	LH front of vehicle, on left front side marker lamp	151-	3- E10		BK 2
C1055	LH front of vehicle, on left front side marker lamp	151-	3-E10		BK 2
C1056	Mounted under fuel filter	151-	7- F8		* 4
C1057	In LH valve cover, front, fuel injectors/glow plugs (#2, #4)	151-	7- A6	28-17	BK 5
C1058	In LH valve cover, rear, fuel injectors/glow plugs (#6, #8)	151-	7- A6	28-17	BK 5
C1059	In RH valve cover, front, fuel injectors/glow plugs (#1, #3)	151-	6- D1	28-18	BK 5
C1060	In RH valve cover, rear, fuel injectors/glow plugs (#5, #7)	151-	7- A3	28-18	BK 5
C1061	Near transmission	*		150-16	BK 8
C1063 (5.8L)	On generator/voltage regulator	151-	2- F5		* 1
C1063 (7.5L)	On generator/voltage regulator	151-	5- F5		* 1
C1063 (7.3L)	On generator/voltage regulator	151-	6- A1		* 1
C1069 (5.8L)	Under vehicle, behind engine, near catalytic converter	151-	18- A4		* 4
C1069 (7.5L)	Under vehicle, behind engine, near catalytic converter	151-	19-A10		* 4
C2000	Top RH side of safety wall, on barometric pressure sensor	151-	9- F5		BK 4
C2001	Under LH side of dash, on accelerator pedal (AP) position sensor	151-	9- F5		BK 3

<u>Ground</u>	<u>Location</u>	<u>Zone</u>
G100 (5.8L)	LH front of engine compartment, on upper radiator support	151- 2- F7
G100 (7.3L)	LH front of engine compartment, on upper radiator support	151- 7- F8
G100 (7.5L)	LH front of engine compartment, on upper radiator support	151- 5- F6
G101 (5.8L)	RH front of engine compartment, front of fender apron	151- 2- D1
G101 (7.3L)	RH front of engine compartment, on front of fender apron	151- 7- D1
G101 (7.5L)	RH front of engine compartment, on front of fender apron	151- 5- D1
G103 (5.8L)	Lower RH front of engine	151- 2- C1

\* Not Available

# 152-29 LOCATION INDEX

1997 F-250 HD/350/SUPER DUTY

<u>Ground</u>	<u>Location</u>	<u>Zone</u>
G103 (7.5L)	Lower RH front of engine	151- 5- B1
G104 (5.8L)	Rear of LH fender apron	151- 2- A9
G104 (7.3L)	Rear of LH fender apron	151- 7-A10
G104 (7.5L)	Rear of LH fender apron	151- 5-A10
G106	Lower RH front of engine	*
G107	Lower LH front of engine	151- 6- F7
G200	Behind bottom of RH cowl panel	151- 15- A3
G201	Behind bottom of LH cowl panel	151- 13- F4
G401	Under center rear of vehicle, on rear crossmember	151- 14-B10

<u>Splice</u>	<u>Location</u>
S100	Engine control sensor harness, near T/O to right front park/turn lamp
S101	Engine control sensor harness, near T/O to engine compartment fuse box
S102	Engine control sensor harness, near T/O to brake warning resistor/diode assembly
S103	Engine control sensor harness, near T/O to left front park/turn lamp
S104	Trailer battery feed harness, near T/O to trailer relay box
S105	Engine control sensor harness, near T/O to engine compartment fuse box (Cavity #70)
S106 (Diesel Engine)	Engine control sensor harness, near T/O to G100
S106 (Gasoline Engines)	Engine control sensor harness, near T/O to G101
S108	Engine control sensor harness, near T/O to brake warning resistor/diode assembly
S109 (Diesel Engine)	Engine control sensor harness, in T/O to C111
S109 (Gasoline Engines)	Engine control sensor harness, in T/O to C105
S110	Engine control sensor harness, near T/O to right front park/turn lamp
S111	In 7.3L diesel engine PIA harness
S112	In 7.3L diesel engine PIA harness
S113	In 7.3L diesel engine PIA harness
S114	Engine control sensor harness, near T/O to brake warning resistor/diode assembly
S115	Engine control sensor harness, near T/O to left headlamp
S116	Engine control sensor harness, near T/O to C103
S117	Engine control sensor harness, near T/O to left headlamp
S118	Engine control sensor harness, near T/O to left headlamp
S121	Engine control sensor harness, near T/O to LH headlamp
S122	Engine control sensor harness, near T/O to powertrain control module

\* Not Available

# LOCATION INDEX 152-30

1997 F-250 HD/350/SUPER DUTY

<u>Splice</u>	<u>Location</u>
S123	Engine control sensor harness, in T/O to engine compartment fuse panel box
S124	Backup lamp switch to rear lamp feed harness, in T/O to 4R70W transmission
S125	Engine control sensor harness, near T/O to G104
S126	Engine control sensor harness, near T/O to engine compartment fuse box
S127	Engine control sensor harness, near T/O to C108
S128	PIA harness, in T/O to fuel line heater
S129	PIA harness, in T/O to ECT sensor
S130	PIA harness, in T/O to ECT sensor
S131	PIA harness, in T/O to EBP sensor
S132	PIA harness, in T/O to EBP sensor
S133	PIA harness, in T/O to EBP sensor
S134 (E40D Transmission)	Backup lamp switch to rear lamp feed harness, near T/O to transmission range (TR) sensor
S134 (S5-42 ZF Transmission)	Backup lamp switch to rear lamp feed harness, near T/O to backup lamp switch
S135 (5.8L)	Fuel charge harness, near T/O to canister purge solenoid
S136	Engine control sensor harness, near T/O to brake warning resistor/diode assembly
S137	Engine control sensor harness, near T/O to brake warning resistor/diode assembly
S138	Fuel charge harness, near T/O to intake air temperature (IAT) sensor
S139	Engine control sensor harness, near T/O to powertrain control module (PCM)
S141	PIA harness, near T/O to fuel charge pump motor
S142	PIA harness, near T/O to fuel charge pump motor
S143	Backup lamp switch to rear lamp feed harness, in T/O to E40D transmission
S144	Dash engine gauge feed harness, near T/O to EGR control solenoid
S145	Engine control sensor harness, near T/O to powertrain control module (PCM)
S147	Engine control sensor harness, near T/O to C103
S148	Engine control sensor harness, near T/O to brake warning resistor/diode assembly
S149	Fuel charge harness, near T/O to air charge temperature (ACT) solenoid
S150	Engine control sensor harness
S151	Fuel charge harness, near T/O to fuel injector #3
S152	Heater switch to blower motor harness, near T/O to blower motor
S153	Heater switch to blower motor harness, near T/O to blower motor
S154	Engine control sensor harness, near T/O to left headlamp
S155	Engine control sensor harness, near T/O to G100
S156	Engine control sensor harness, near T/O to left front park/turn lamp

\* Not Available

# 152-31 LOCATION INDEX

1997 F-250 HD/350/SUPER DUTY

<u>Splice</u>	<u>Location</u>
S157	Engine control sensor harness, near T/O to powertrain control module (PCM)
S158	Fuel charge harness, near T/O to fuel injector #4
S159 (5.8L)(7.5L)	Fuel charge harness, near T/O to fuel injector #8
S160 (5.8L)(7.5L)	Fuel charge harness, near T/O to fuel injector #5
S161 (5.8L)	Fuel charge harness, near T/O to fuel injector #4
S162	Engine control sensor harness, near T/O to C108
S163 (Diesel Engine)	Engine control sensor harness, near T/O to C108
S163 (Gasoline Engines)	Engine control sensor harness, near T/O to powertrain control module (PCM)
S164	Engine control sensor harness, near T/O to left headlamp
S165	Engine control sensor harness, near T/O to left headlamp
S166	Engine control sensor harness, near T/O to powertrain control module (PCM)
S167	Engine control sensor harness, near T/O to powertrain control module (PCM)
S168	Transmission harness, near T/O to transmission range (TR) sensor
S170	Fuel charge harness, near T/O to C1036
S171	Fuel charge harness, near T/O to distributor
S172	Engine control sensor harness, near T/O to C138
S173	Engine control sensor harness, near T/O to C1027
S174	Engine control sensor harness, near T/O to brake warning resistor/diode assembly
S199 (5.8L)	Fuel charge harness, near T/O to ignition coil
S200	Seat belt retractor switch RH harness, near T/O to G201
S201	Seat belt retractor switch RH harness, near T/O to C302
S202	Main harness, near T/O to C261
S203	Main harness, near T/O to enable PSOM programming connector C232
S204	Main harness, near T/O to multi-function switch
S205	Main harness, to T/O to radio
S206	Main harness, near T/O to fuse panel
S207	Main harness, near T/O to clutch pedal position switch or jumper
S208	Main harness, near T/O to remote keyless entry module
S209	Main harness, near T/O to fuse panel
S210	Main harness, near T/O to C210
S211	Main harness, near T/O to fuse panel
S212	Main harness, in T/O to remote keyless entry module
S213	Main harness, near T/O to warning chime module
S214	Main harness, near T/O to warning chime module

\* Not Available

# LOCATION INDEX 152-32

1997 F-250 HD/350/SUPER DUTY

<u>Splice</u>	<u>Location</u>
S215	Main harness, near T/O to C251
S216	Main harness, near T/O to G200
S217	Main harness, near T/O to fuse panel
S218	Main harness, near T/O to radio
S219	Rear lamps harness, near T/O to C205
S220	Main harness, near T/O to enable PSOM programming connector C232
S221	Seat belt retractor switch RH harness, near T/O to G201
S222 (Super Cab)	Seat belt retractor switch RH harness, near T/O to C300
S222 (Regular Cab)	Seat belt retractor switch RH harness, near T/O to C229
S223	Seat belt retractor switch harness, near T/O to C200
S224	Main harness, in T/O to clutch pedal position switch or jumper
S225	Rear lamps harness, near T/O to C205
S226	Power lumbar/bolster harness, near T/O to C313
S227	Main harness, in T/O to air bag module
S228	Main harness, in T/O to rear RABS module
S229	Main harness, near T/O to blower motor switch
S230	Main harness, near T/O to main light switch
S231	Main harness, near T/O to C202
S232	Main harness, near T/O to C202
S233	Radio amp harness, near premium sound amplifier
S234	Main harness, near T/O to C202
S235	Main harness, in T/O to throttle position sensor
S236	Main harness, near T/O to fuse panel
S237	Main harness, near T/O to brake on/off switch
S238	Main harness, near T/O to wiper control module
S239	Main harness, in T/O to throttle position sensor
S240	Main harness, near T/O to clutch pedal position switch or jumper
S241	Power lumbar/bolster harness, near T/O to C313
S242	Main harness, near T/O to fuse panel
S243	In main harness, near T/O to C210
S244	Main harness, near T/O to C210
S245	Main harness, near T/O to clutch pedal position switch or jumper
S246	Main harness, near T/O to speed control amplifier
S247	Main harness, near T/O to C202

\* Not Available

# 152-33 LOCATION INDEX

1997 F-250 HD/350/SUPER DUTY

<u>Splice</u>	<u>Location</u>
S248	Main harness, near T/O to C202
S249	Main harness, near T/O to fuel tank selector switch
S250	Main harness, near T/O to main light switch
S251	Seat belt retractor switch harness, near T/O to C300
S252	Main harness, near T/O to clutch pedal position switch or jumper
S253	Main harness, near T/O to clutch pedal position switch or jumper
S254	Rear lamps harness, near T/O to RABS valve assembly
S255	Window regulator left front door harness, near T/O to C214
S256	Window regulator left front door harness, near T/O to C214
S257	Main harness, near T/O to C210
S258	Main harness, near T/O to G200
S259	Main harness, near T/O to C202
S260	Main harness, near T/O to C202
S261	Main harness, near T/O to C202
S262	Main harness, near T/O to C261
S299	Main harness, near T/O to right front courtesy lamp switch
S301	Window regulator harness, near T/O to door speaker
S302	Window regulator harness, near T/O to door speaker
S303	Main harness, near T/O to enable PSOM programming connector C232
S304	Window regulator right front door harness, near T/O to C603
S305	Seat belt retractor switch RH harness, near T/O to C300
S306	Main harness, near T/O to Trailer brake controller
S307	Front seat back pad adjust harness, near T/O to power lumbar compressor motor
S308	Rear high mount lamp harness, near T/O to outside cargo/high mount stop lamp
S309	Seat belt retractor switch RH harness, near T/O to C300
S310	Front seat back pad adjust harness, near T/O to power lumbar compressor motor
S311	Seat belt retractor switch RH harness, near T/O to C302
S312	Seat belt retractor switch RH harness, near T/O to C302
S313	Main harness, near T/O to warning chime module
S314 (Crew Cab)	Seat belt retractor switch RH harness, near T/O to C302
S314 (Except Crew Cab)	Seat belt retractor switch RH harness, near T/O to C300
S315	Main harness, near T/O to keyless entry module
S316	Seat belt retractor switch harness, near T/O to seat belt retractor switch
S317	Interior lamp feed harness, near T/O to cargo lamp

\* Not Available

# LOCATION INDEX 152-34

1997 F-250 HD/350/SUPER DUTY

<u>Splice</u>	<u>Location</u>
S318	Window regulator left front door harness, near T/O to C215
S319	Seat belt retractor switch harness, near T/O to seat belt retractor switch
S320	Seat belt retractor switch harness, near T/O to seat belt retractor switch
S321	Seat belt retractor switch harness, near T/O to seat belt retractor switch
S322	Interior lamp feed harness, near T/O to cargo lamp
S323	Interior lamp feed harness, near T/O to dome lamp
S324	Interior lamp feed harness, near T/O to right rear courtesy lamp switch
S400 (Diesel Engine)	Rear lamps harness, near T/O to front tank fuel gauge sender
S400 (Gasoline Engines)	Rear lamps harness, near T/O to front tank fuel pump/fuel gauge sender
S401	Rear lamps harness, near T/O to license lamps
S403	Rear license lamp harness, in T/O to C400
S404 (With Flare Side)	Rear lamp connector harness, near T/O to C401
S404 (Without Flare Side)	Rear lamp connector harness, near T/O to C400
S405	Left lamp connector harness, near T/O to left backup lamp
S406	Right rear lamp connector harness, near T/O to right backup lamp
S409	Left marker lamp harness, near T/O to C412
S410	Right marker lamp harness, near T/O to C420
S412	Rear lamp connector harness, near T/O to C410
S417 (With Chassis Cab)	Rear lamp connector harness, near T/O to C448
S417 (With Flare Side)	Rear lamp connector harness, near T/O to C401
S417 (Without Flare Side)	Rear lamp connector harness, near T/O to C400
S418	Rear license lamp harness, near T/O to C400
S419	Rear lamps harness, near T/O to C401
S420	Rear lamp connector harness, near T/O to C410
S421	Left marker harness, in T/O to C412
S422	Right marker lamp harness, in T/O to C420
S423	Rear window regulator control harness, near T/O to tailgate window switch
S424	Rear lamps harness, near T/O to license lamps
S426	Rear lamp connector harness, near T/O to C401
S428	Rear lamps harness, near T/O to output shaft speed sensor
S429	Rear lamps harness, near T/O to output shaft speed sensor
S500	Window regulator left front door harness, near T/O to master window control switch
S501	Window regulator left front door harness, near T/O to C214

\* Not Available

# 152-35 LOCATION INDEX

1997 F-250 HD/350/SUPER DUTY

<u>Splice</u>	<u>Location</u>
S502 .....	Window regulator left front door harness, near T/O to C500
S503 .....	Door window regulator control harness, near T/O to power mirror motor
S600 .....	Window regulator right front door harness, near T/O to right window control switch
S601 .....	Window regulator right front door harness, near T/O to C600
S602 .....	Window regulator right front door harness, near T/O to right window control switch
S900 .....	Rear view inside mirror harness, in windshield header
S901 .....	Rear view inside mirror harness, in windshield header
S902 .....	Rear view inside mirror harness, in windshield header

\* Not Available





# NOTES 152-36

1997 F-250 HD/350/SUPERDUTY

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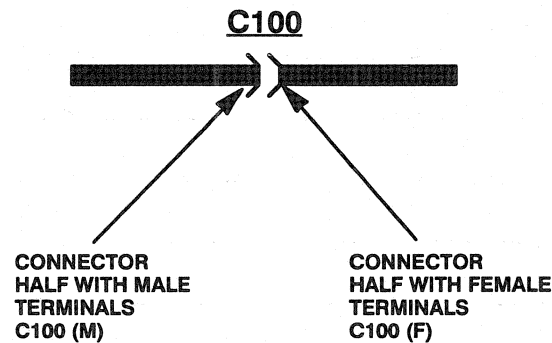
# 153-1 HARNESS CAUSAL PART NUMBER

1997 F-250 HD/350/SUPER DUTY

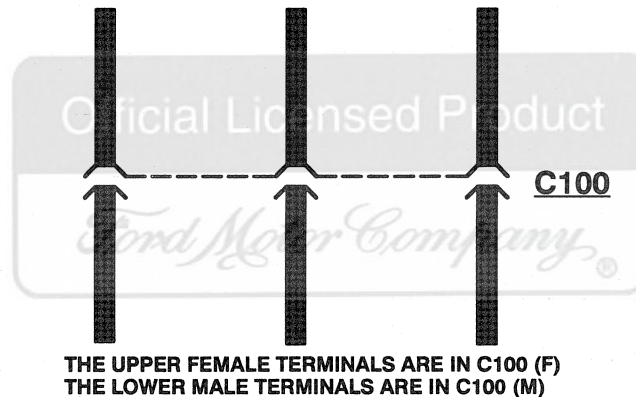
## HOW TO IDENTIFY A BASIC HARNESS NUMBER BY USING A "C" NUMBER

Understand these symbols before using the following listing:

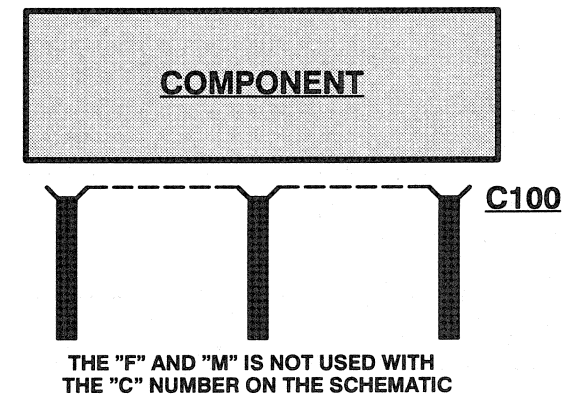
### HARNESS TO HARNESS CONNECTION



### DASHED LINES INDICATE TERMINALS OF SAME CONNECTOR



### COMPONENT CONNECTION



Identify the basic harness part number by:

- 1) If the problem is in a connector, find the connector "C" number in the EVTMs. Then locate the "C" number in the following listing and read the harness base part number.
- 2) If the problem is not in a connector (such as a short or a broken wire), then choose a connector located on the same harness that has the problem. Identify the "C" number in the following listing and read the base part number of the harness that has the problem.

# HARNES CAUSAL PART NUMBER 153-2

1997 F-250 HD/350/SUPER DUTY

<u>Connector</u>	<u>Wire</u>	<u>Connector</u>	<u>Wire</u>	<u>Connector</u>	<u>Wire</u>	<u>Connector</u>	<u>Wire</u>
<u>Number</u>	<u>Assembly</u>	<u>Number</u>	<u>Assembly</u>	<u>Number</u>	<u>Assembly</u>	<u>Number</u>	<u>Assembly</u>
C101 (F)	9D930	C151	12A581	C198	12A581	C232	14401
C101 (M)	12A581	C153	14305	C199	12A581	C234	13A726
C102	12A581	C154	14305	C200 (F)	14A504	C235 (F)	14A504
C103 (F)	15525	C155	PIA	C200 (M)	14401	C235 (M)	14401
C103 (M)	12A581	C156	PIA	C201 (F)	15460	C240	14401
C104	12A581	C158	14405	C201 (M)	14401	C241	14401
C105 (F)	14A346	C159 (F)	14401	C202 (F)	14401	C242	14401
C105 (M)	12A581	C159 (M)	14401	C202 (M)	12A581	C243	14401
C106 (F)	12A581	C161	14K067	C203 (F)	18A586	C244	14401
C106 (M)	18A586	C162	18A586	C203 (M)	14401	C250	14401
C107	12A581	C163	9D930	C204 (F)	14401	C251	14401
C108 (F)	12A581	C163 DIESEL	14305	C204 (M)	13A726	C252	14401
C108 (M)	14305	C164	9D930	C205 (F)	14401	C257 (F)	14401
C110 (F)	15525	C165	14305	C205 (M)	14405	C257 (M)	19B113
C110 (M)	12A581	C166	15525	C206	14401	C258 (F)	14401
C111	12A581	C167	*	C207	14401	C258 (M)	19B113
C115 (F)	12A581	C168	18A586	C208	14401	C260	14401
C115 (M)	14305	C169	18A586	C210 (F)	14A348	C261	14401
C116	*	C170	12A581	C210 (M)	14401	C262	14401
C117 (F)	14K067	C173 (F)	15A702	C211	19B113	C263	14A504
C117 (M)	15525	C173 (M)	12A581	C212	19B113	C264	14401
C118	14305	C176	12A581	C213 (F)	14A265	C265	14401
C126	9D930	C177	12A581	C213 (M)	14A509	C266	14401
C128	12A581	C178	9D930	C214 (F)	14A509	C268	14401
C130	12A581	C180	9D930	C214 (F) **	19A123	C269	14401
C131	12A581	C181	9D930	C214 (M)	14A504	C271	14401
C135	9D930	C182	9D930	C215 (F)	14A509	C273	14401
C138 (F)	PIA	C183	9D930	C215 (M)	14A504	C274	14401
C138 (M)	12A581	C185	12A581	C216	12A581	C275	14401
C139 (F)	14305	C187	14305	C219 (F)	14401	C276	14401
C139 (M)	12A581	C188	PIA	C219 (M)	9C899	C277	14401
C143 DIESEL	14401	C190	9D930	C224	14401	C278	14401
C143 GAS	12A581	C191	9D930	C227	14401	C279	14401
C144	PIA	C192	9D930	C228 (F)	14A265	C280	14401
C145	PIA	C193	9D930	C228 (M)	14401		
C146	PIA	C194	9D930	C229 (F)	14A504		
C149 (F)	14A346	C195	9D930	C229 (M)	14401		
C149 (M)	14405	C196	9D930	C230	14401		
C150	9D930	C197	9D930	C231	14401		

\* No Figure Available  
 \*\* W/O Power Windows

# 153-3 HARNESS CAUSAL PART NUMBER

1997 F-250 HD/350/SUPER DUTY

<u>Connector</u> <u>Number</u>	<u>Wire</u> <u>Assembly</u>	<u>Connector</u> <u>Number</u>	<u>Wire</u> <u>Assembly</u>	<u>Connector</u> <u>Number</u>	<u>Wire</u> <u>Assembly</u>	<u>Connector</u> <u>Number</u>	<u>Wire</u> <u>Assembly</u>
C282	AUDIO CABLE	C400 (F)	13412	C435 *	13A409	C704 (M)	14632
C283	AUDIO CABLE	C400 (M)	13A409	C436 ****	13412	C800	14632
C292	14401	C401 (F)	13A409	C436 *	13A409	C801	14632
C293	13A726	C401 (M)	14405	C440	14405	C802	14632
C294	13A726	C404	14405	C441 *****	14406	C803	14632
C295	13A726	C406 (F) *	14405	C441	14405	C804 (F)	14632
C296	14401	C406 (M) *	13A409	C446 *****	13412	C804 (M)	14632
C298	14401	C407 (F)	13A576	C447 *****	13A409	C900	15460
C300 (F)	14334	C407 (M)	14405	C448 *****	13A409	C901	15460
C300 (M)	14A504	C408 (F)	13A409	C449 *****	13A409	C902	15460
C302	14A504	C408 (M)	15A411	C450 *****	13A409	C903	15460
C303 (F)	14632	C409 (F)	13A409	C451	13A576	C904	15460
C303 (M)	14A504	C409 (M)	15A411	C500	14A509	C905	14334
C304 (F)	14632	C410 (F)	13A409	C502	14A509	C906	14334
C304 (M)	14A504	C410 (M)	15425	C503	14A509	C907	14334
C305	14B084	C411	15A411	C504	14A509	C908	14334
C306	14B084	C412	15A411	C505	14A509	C910	14334
C307 (F)	14632	C413	15A411	C507	14A509	C1001	PIA
C307 (M)	14A504	C417	13A576	C507 *****	19A123	C1002	PIA
C308 (F)	14632	C418 (F)	14405	C508	14A509	C1003 (F)	12A690
C308 (M)	14A504	C418 (M)	14086	C509 (F)	14A265	C1003 (M)	12A581
C310	14086	C420	15A411	C509 (M)	14A509	C1004	PIA
C311	14086	C421	14405	C550	14A509		
C312	14B084	C423	14405	C600	14A256	* W/Flareside	
C313 (F)	14A504	C424 (F)	13A576	C602	14A256	**W/Flareside	
C313 (M)	14B084	C424 (M)	14405	C603	14A256	*** W/O Flareside Chassis Cab	
C314 (F)	14A504	C427	14405	C606	14A256	**** W/O Flareside W Rear	
C314 (M)	14B084	C428	14086	C607	14A256	Bumper	
C315 (F)	14335	C429	14086	C608	14A256	***** Chassis Cab & 185	
C315 (M)	14A504	C431 **	13A409	C609	14A256	Wheelbase	
C317	14B084	C431 ***	13A409	C700	14632	***** W/O Flareside	
C321	14334	C432	13A409	C701	14632	W/O Rear Bumper	
C322	14334	C433	13A409	C702	14632	***** Chassis Cab	
C326	14A504	C434	13A409	C703	14632	***** Custom & XL Trim	
C327	14A504	C435 ****	13412	C704 (F)	14632		

# HARNES CAUSAL PART NUMBER 153-4

1997 F-250 HD/350/SUPER DUTY

<u>Connector</u> <u>Number</u>	<u>Wire</u> <u>Assembly</u>	<u>Connector</u> <u>Number</u>	<u>Wire</u> <u>Assembly</u>	<u>Connector</u> <u>Number</u>	<u>Wire</u> <u>Assembly</u>	<u>Connector</u> <u>Number</u>	<u>Wire</u> <u>Assembly</u>
C1005	12A581	C1022	9D930	C1035	15A702	C1058 (M)	PIA
C1006	12A581	C1023	9D930	C1036	9D930	C1059 (F)	PIA
C1007	9D930	C1024	9D930	C1037	9D930	C1059 (M)	PIA
C1008	9D930	C1025	9D930	C1038	9D930	C1060 (F)	PIA
C1010	12A581	C1025	12A690	C1047	PIA	C1060 (M)	PIA
C1011	12A581	C1025 *	15525	C1048	7C078	C1061 (M)	15525
C1012	15525	C1026	9D930	C1052	12A581	C1061 (F)	7C078
C1013	PIA	C1027	12A581	C1053	12A581	C1063	14305
C1014	PIA	C1029	14305	C1054	12A581	C2000	14401
C1015	PIA	C1030	12A581	C1055	12A581	C2001	14401
C1017	9D930	C1031	12A581	C1056	PIA		
C1018	PIA	C1032	12A581	C1057 (F)	PIA		
C1019	12A581	C1033	12A581	C1057 (M)	PIA		
C1021	12A581	C1034	12A581	C1058 (F)	PIA		

\* All 7.5L Except Super Duty & 5.8L

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# 160-1 VEHICLE REPAIR LOCATION CODES

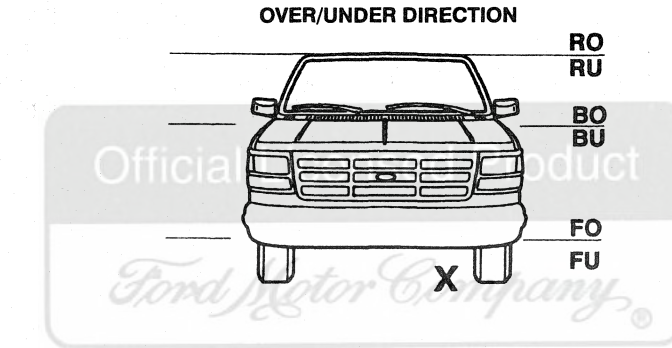
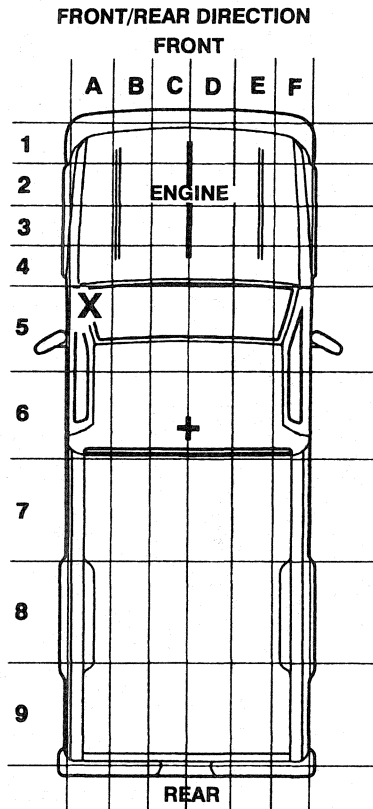
1997 F-250 HD/350/SUPER DUTY

## VEHICLE REPAIR LOCATION CODES

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

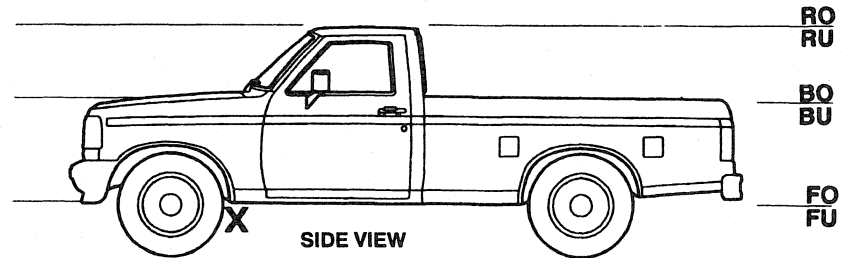
FOR EXAMPLE, AN "X" HAS BEEN PLACED IN THE QUADRANT OF THE VEHICLE DIAGRAMS INDICATING THE LOCATION OF THE REPAIR. SEE DIAGRAMS.

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



- R = ROOF LINE
- RO = ROOF OVER
- RU = ROOF UNDER
- B = BELT LINE
- BO = BELT OVER
- BU = BELT UNDER
- F = FLOOR PAN
- FO = FLOOR OVER
- FU = FLOOR UNDER

+ CENTER OF VEHICLE



F-250 HD/350/SUPER DUTY  
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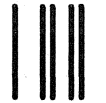
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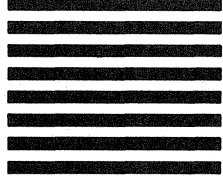
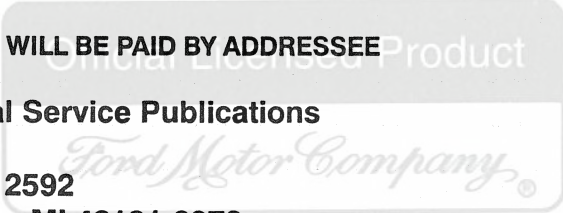


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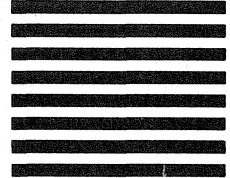
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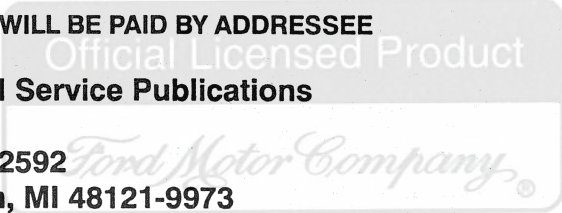
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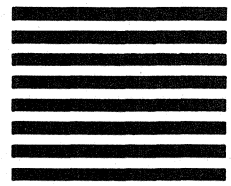
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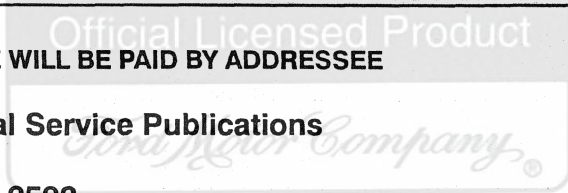
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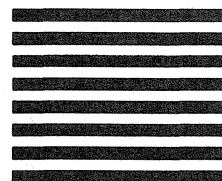
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