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2002 Mustang Wiring Diagrams

EAN: 978-1-60371-437-2

ISBN: 1-60371-437-5

Forel Publishing Company, LLC
Woodbridge, VA 22192
Email: sales@ForelPublishing.com
<https://www.ForelPublishing.com>



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

2002 Wiring Diagrams Features

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

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Starter motor (11002), M8	20-1	Vanity mirror lamp, left (04100), E30 – coupe	89-3
Starter relay (11450), K22	20-1	Vanity mirror lamp, right (04100), E31 – Convertible	89-4
Steering wheel/speed control switch (9F924), N78	31-4	Vanity mirror lamp, right (04100), E31 – coupe	89-3
Subwoofer, left front, Y258 – Mach 1000, Convertible	130-7	Washer pump relay, front, K139	81-1
Subwoofer, left front, Y258 – Mach 1000, coupe	130-6	Wheel speed sensor, left front (2C205), B15	42-3
Subwoofer, left front, Y258 – Mach 460	130-4	Wheel speed sensor, left rear, B17	42-3
Subwoofer, left rear, Y260 – Mach 460, Mach 1000	130-8	Wheel speed sensor, right front (2C204), B14	42-3
Subwoofer, luggage compartment left, Y290 – Mach 1000	130-11	Wheel speed sensor, right rear, B16	42-3
Subwoofer, luggage compartment right, Y291 – Mach 1000	130-10	Windshield washer pump motor (17618), M112	81-1
Subwoofer, right front, Y259 – Mach 1000, Convertible	130-7	Windshield wiper motor (17508), M111	81-1
Subwoofer, right front, Y259 – Mach 1000, coupe	130-6	Wiper high/low relay, K316	81-1
Subwoofer, right front, Y259 – Mach 460	130-4	Wiper run/park relay, K140	81-1
Subwoofer, right rear, Y261 – Mach 460, Mach 1000	130-8		
Subwoofer amplifier, front, Y262 – Mach 1000, Convertible	130-7		
Subwoofer amplifier, front, Y262 – Mach 1000, coupe	130-6		
Subwoofer amplifier, front, Y262 – Mach 460	130-4		
Subwoofer amplifier, luggage compartment left inboard, A442 – Mach 1000	130-11		
Subwoofer amplifier, luggage compartment left inboard, A442 – Mach 1000	130-9		
Subwoofer amplifier, luggage compartment left outboard, A441 – Mach 1000	130-11		

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Notes

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Note

All wiring connections between components are shown exactly as they exist in the vehicles. It is important to realize, however, that no attempt has been made on the schematic to represent components and wiring as they physically appear on the vehicle. For example, a 4-foot length of wire is treated no differently in a schematic from one which is only a few inches long. Furthermore, to aid in understanding electrical (electronic) operation, wiring inside complicated components has been simplified.

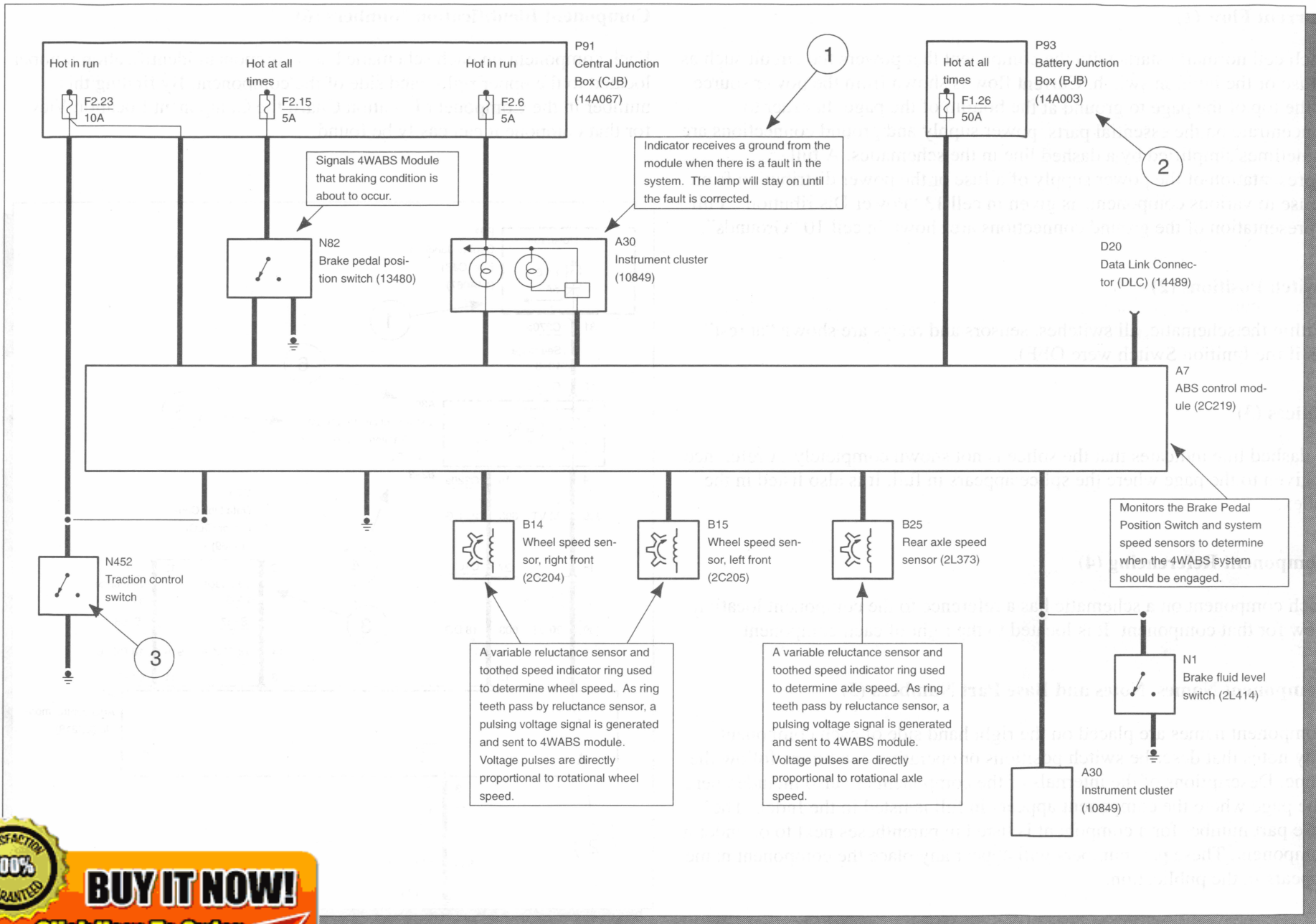
Complete Circuit Operation

Each circuit is shown completely and independently in one cell. Other components which are connected to the circuit may not be shown unless they influence the circuit operation.

System Overview

Each major vehicle system includes a complete system overview prior to each set of schematic pages. It is important to realize that this is only a high level overview of the complete system connectivity. It includes component operational information (1), component name and base part number (2), and basic component internals (3). It does not include specific circuit information, connector or pin numbers, splices or grounds. That information is found on the schematic pages.





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Introduction

Flow (1)

Normally starts with the component that powers the circuit such as the ignition switch. Current flow is shown from the power source of the page to ground at the bottom of the page. In order to focus on the essential parts, power supply and ground connections are simplified by a dashed line in the schematics. A full description of the power supply of a fuse or the power distribution from various components is given in cell 13 "Power Distribution". Full description of the ground connections are shown in cell 10 "Grounds".

Switch Positions (2)

Within the schematic, all switches, sensors and relays are shown "at rest" (as if the Ignition Switch were OFF).

Splices (3)

A dashed line indicates that the splice is not shown completely. A reference is given to the page where the splice appears in full. It is also listed in the Index.

Component Referencing (4)

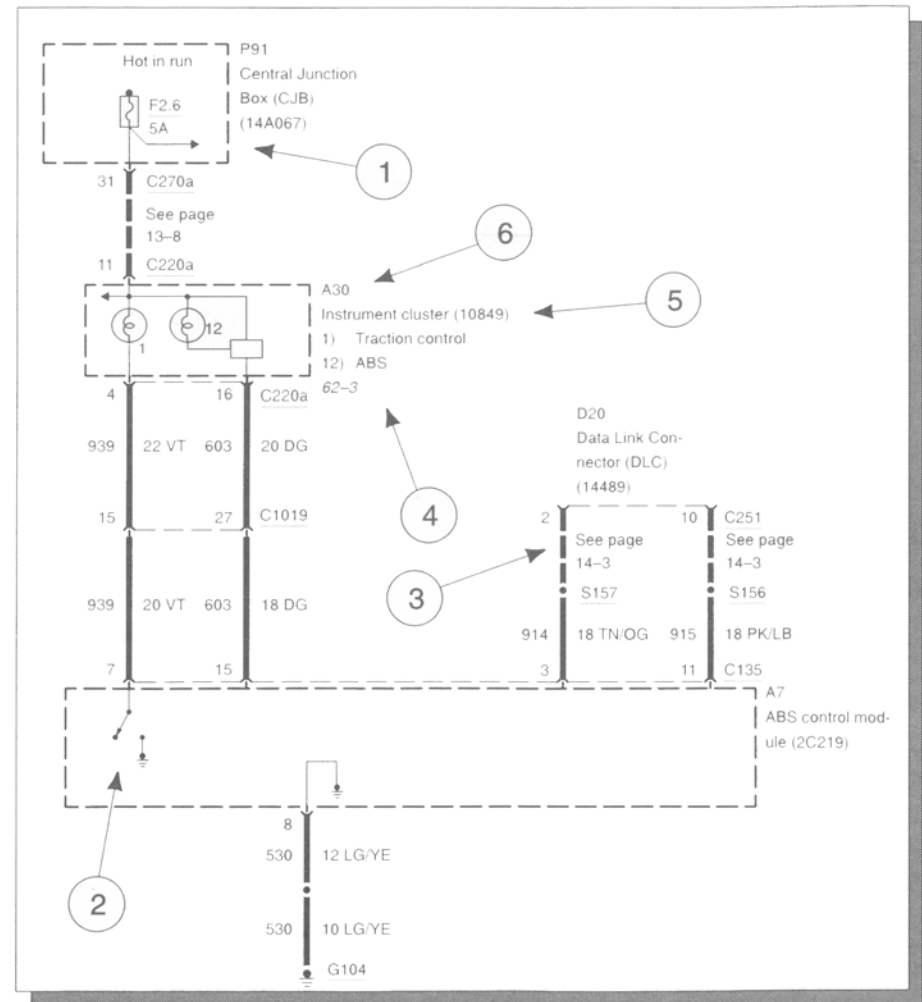
Each component on a schematic has a reference to the component location view for that component. It is located to the right of each component.

Component Names, Notes and Base Part Numbers (5)

Component names are placed on the right hand side of each component. Any notes that describe switch positions or operating conditions follow the name. Descriptions of the internals of the component are also included here. The page where the component appears in full is listed in the Index. The base part number for a component is listed in parentheses next to or under a component. These part numbers will appear anywhere the component name appears in the publication.

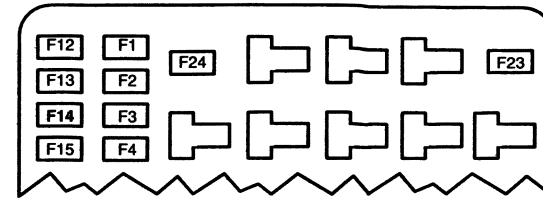
Component Identification Numbers (6)

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



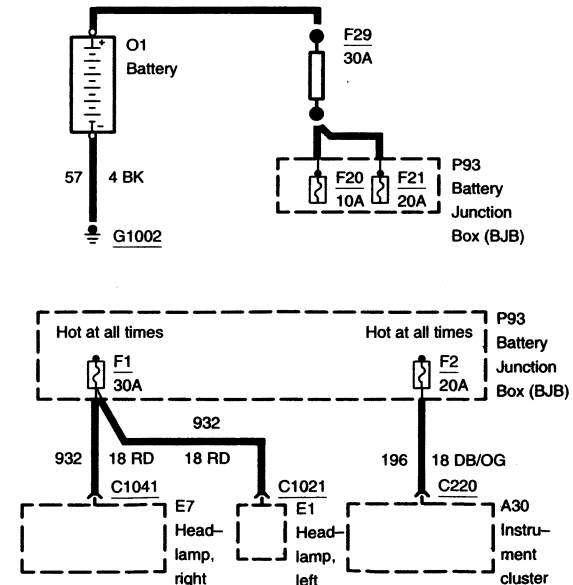
Fuse and Relay Information

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



Power Distribution

Cell 13 “Power Distribution” shows the current feed circuit. The current path is shown from the battery to the ignition switch and to all fuses. It also shows the circuits protected by each fuse. The circuit is traced from the fuse to the component. All details (wires, splices, connectors) between the fuse and the first component are shown.



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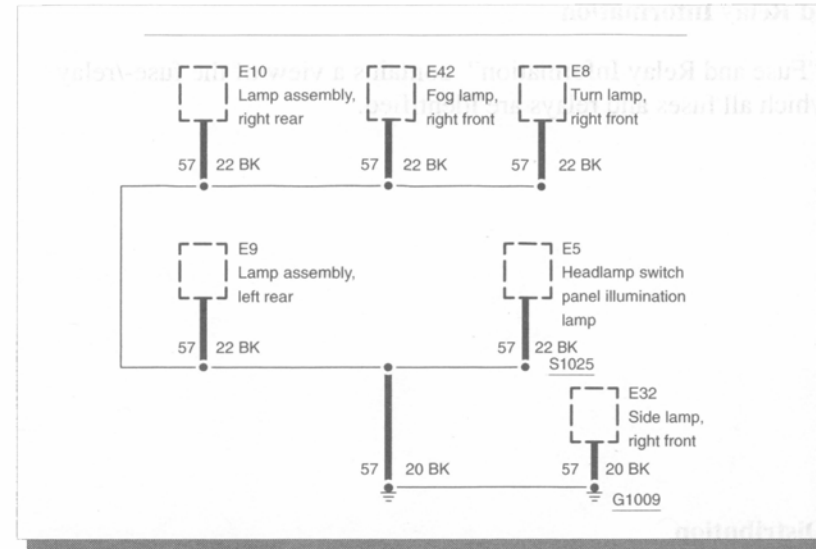
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Introduction

Distribution

"Grounds" contains the schematics that show the complete details of a ground connection or main ground splice. This is useful in diagnosing a problem affecting several components at once (poor ground or ground splice). All details (wires, splices, connectors) between the ground point and the components are shown. These ground connection details are shown here in order to keep the individual cell as uncluttered as possible.



Component and Connector Information

Cell 152 "Component Location Charts" helps the user find where the various items depicted on the schematic can physically be found on the vehicle. A brief written description of the location is given, along with a reference to the component location views.

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

Cell 150 "Connector Views" show the views of the pins and/or cavities of all connectors. The pin and cavity sides are shown separately as if the connector were disconnected. The color of the connector housing is indicated next to the connector number when available. The harness causal number is located above the connector view and below the connector number. The circuit function charts are located below each connector. The wiring harness designations are listed in cell 152 "Component Location Charts".

C150

12A581

B15
Wheel speed sensor, left front
(2C205)



F02085

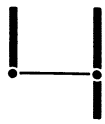
Pin	Circuit	Circuit Function
1	522 (TN/BK)	Wheel speed sensor, left front (2C205) -
2	521 (TN/OG)	Wheel speed sensor, left front (2C205) +

WARNINGS

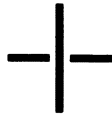
- *Always wear safety glasses for eye protection.*
- *Use safety stands whenever a procedure requires being under a vehicle.*
- *Be sure that the **Ignition Switch** is always in the OFF position, unless otherwise required by the procedure.*
- *Set the parking brake when working on any vehicle. An automatic transmission should be in PARK. A manual transmission should be in NEUTRAL.*
- *Operate the engine only in a well-ventilated area to avoid danger of carbon monoxide.*
- *Keep away from moving parts, especially the fan and belts, when the engine is running.*
- *To prevent serious burns, avoid contact with hot metal parts such as the radiator, exhaust manifold, tail pipe, catalytic converter and muffler.*
- *Do not allow flame or sparks near the battery. Gases are always present in and around the battery cell. An explosion could occur.*
- *Do not smoke when working on a vehicle.*
- *To avoid injury, always remove rings, watches, loose hanging jewelry and avoid wearing loose clothing.*



4-1 Symbols



Distributed splice



Crossed wiring without connection



Splice



Removable connection



Ground



Connector



Female connector



Male connector



Entire component



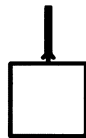
Part of a component



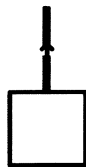
Component case directly attached to metal part of vehicle (ground)



Component with screw terminals



Connector attached to component



Connector attached to component lead (pigtail)



Resistor or heating element



Potentiometer (pressure or temperature)



Potentiometer (outside influence)



Battery



Fuse



Circuit breaker



Heating element, Conductor loop

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Ignition coil assembly



Buzzer



Antenna



Solenoid controlled valve
or clutch solenoid



Air bag sliding contact
(14A664)



Permanent magnet,
one-speed-motor



Light emitting diode
(LED)



Diode, current flows in
direction of arrow



Permanent magnet,
two-speed-motor



Capacitor



Transistor



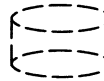
Rotational sensor



Variable capacitor



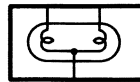
Lamp



Shield



Piezoelectric sensor



Bifilament lamp



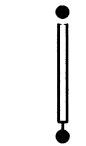
Signal horn or speaker



Coil



Gauges



Fusible link

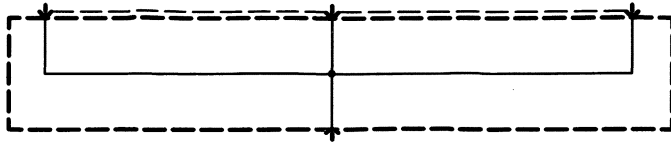
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4-3 Symbols

Joint connector



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



Power ground



signal



Signal return



Switched ground



Reference voltage



Left-hand-drive vehicles

VBATT Battery voltage

VPWR Switched or module voltage

SCP + Standard Corporate Protocol (SCP) data +

SCP - Standard Corporate Protocol (SCP) data -

ISO Data bus ISO 9141 (K-line)

PWR Switched power

Country code

CDN Canada

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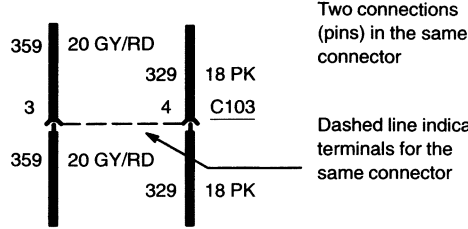
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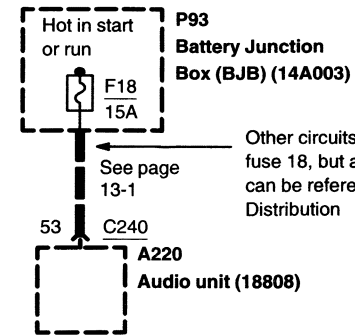
A thick dashed line represents 2 or more wires

A thin dashed line represents a continuation

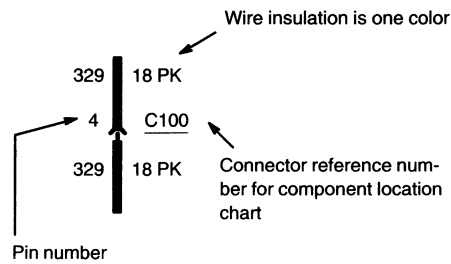


Two connections (pins) in the same connector

Dashed line indicates terminals for the same connector



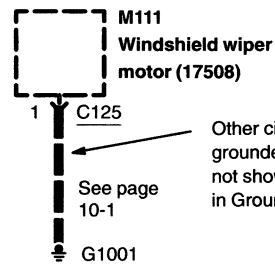
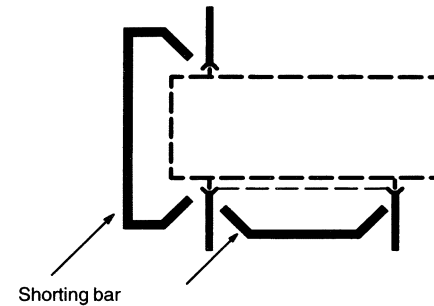
Other circuits which share fuse 18, but are not shown, can be referenced in Power Distribution



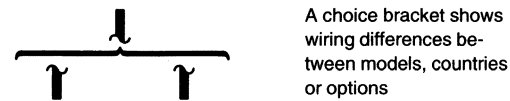
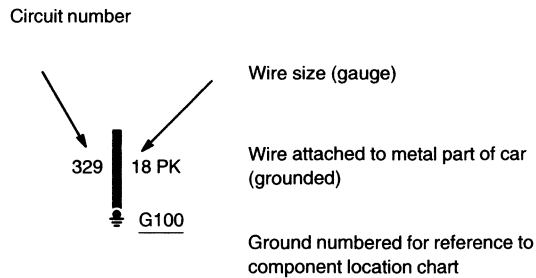
Wire insulation is one color with another color stripe (green with white)



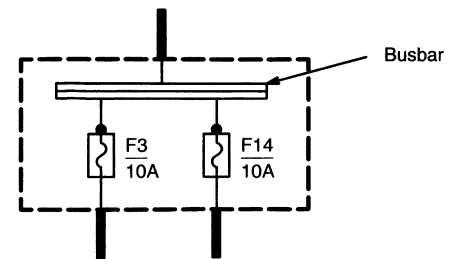
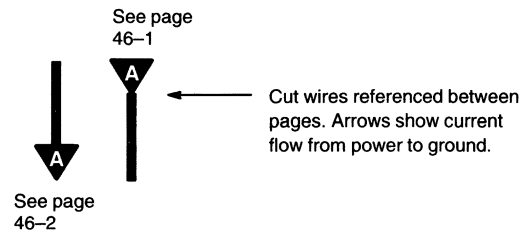
Circuit references a wire which connects to another circuit



Other circuits which are also grounded at G1001, but are not shown, can be referenced in Grounds



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

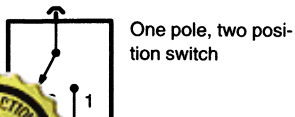
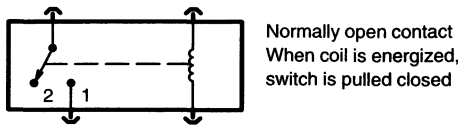
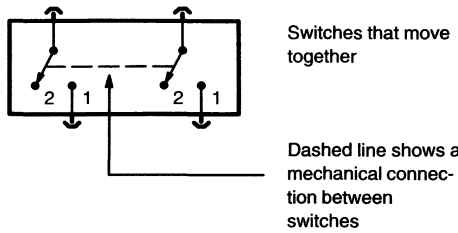
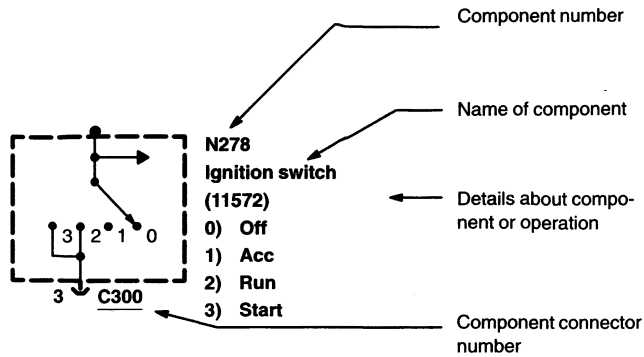


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4-5 Symbols



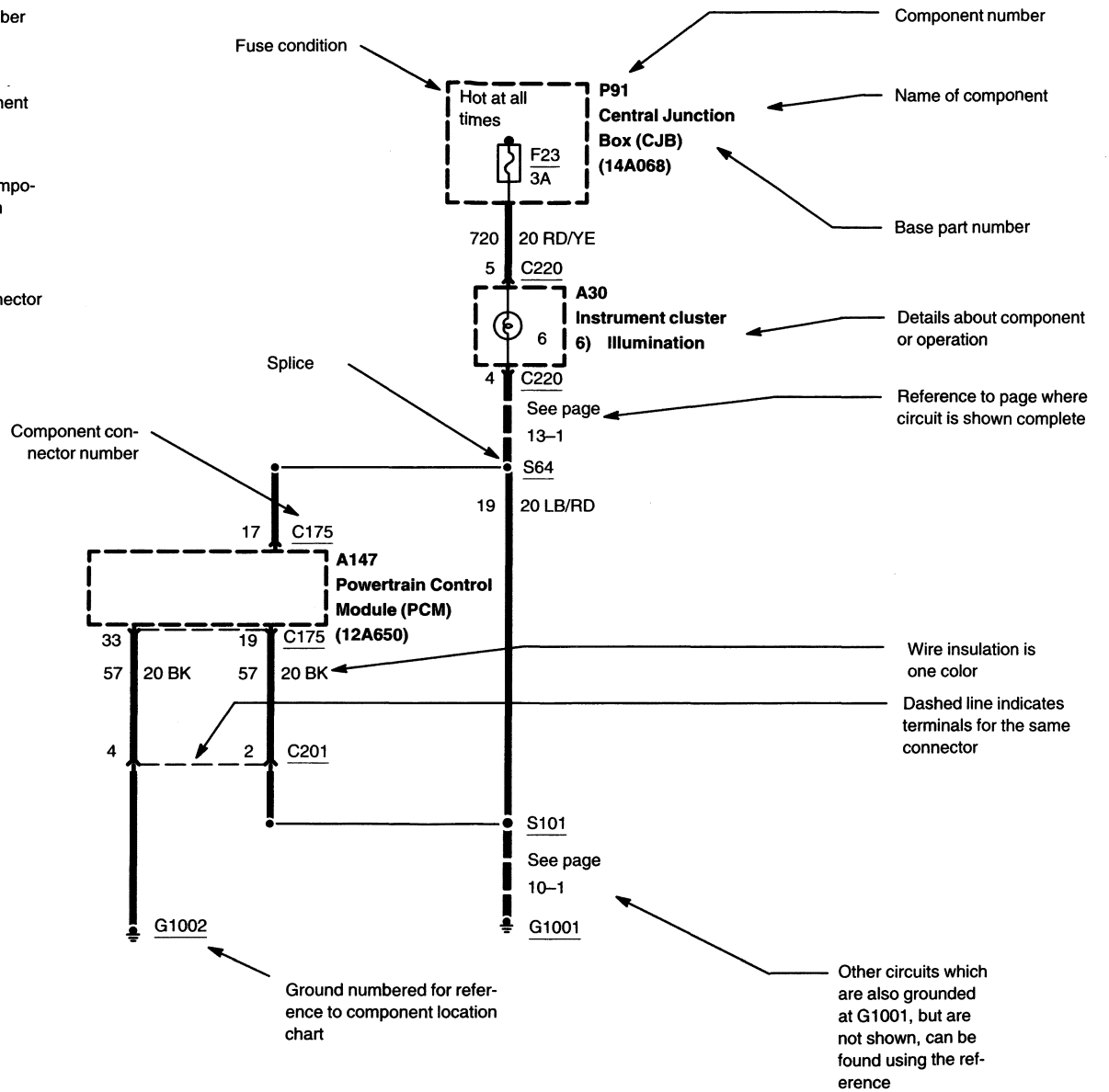
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Mustang 02



Notes

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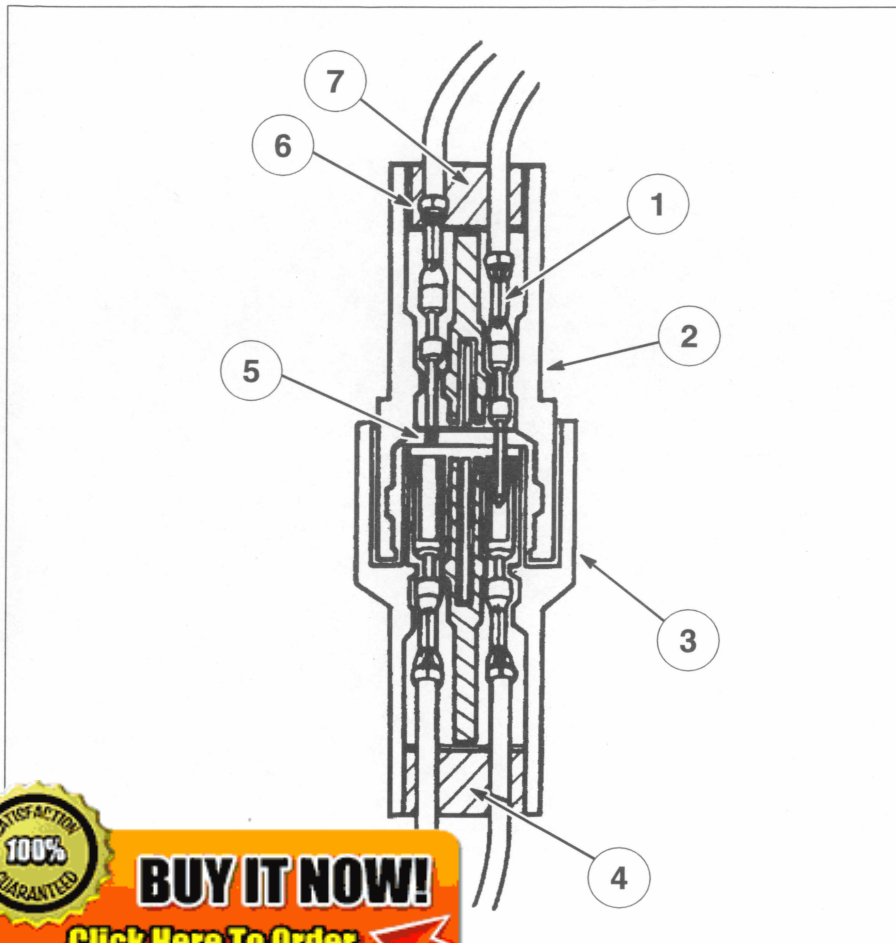
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Troubleshooting wiring harness and connector hidden concerns

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

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



Terminal not properly seated

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

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

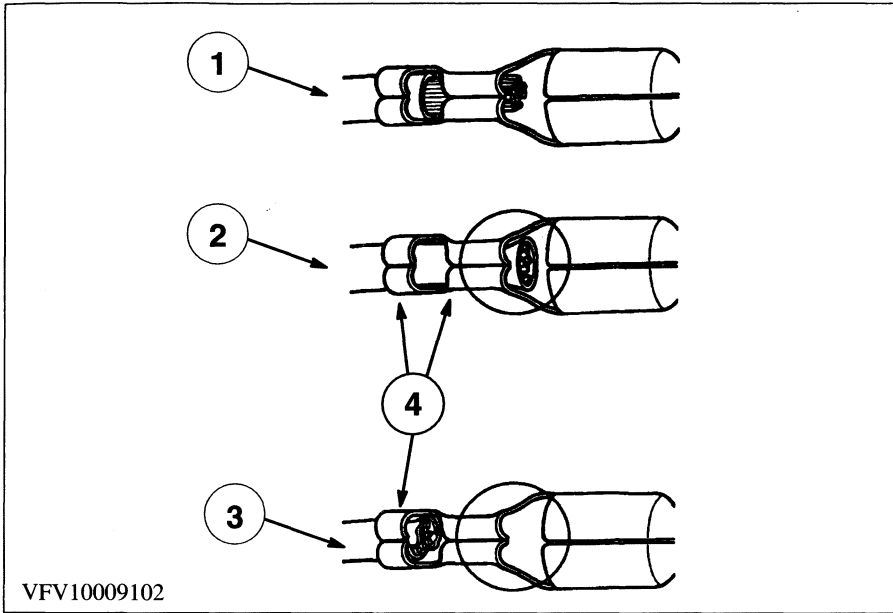
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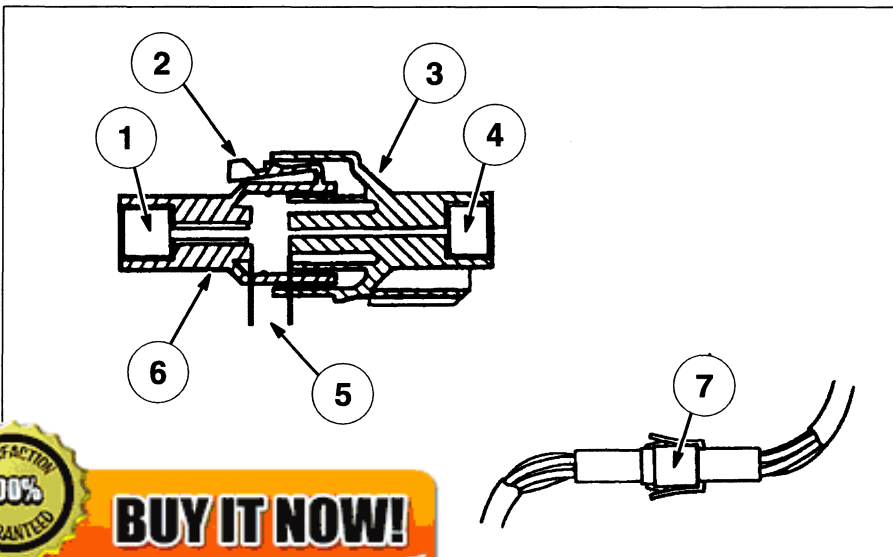
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Mustang UZ



Defective insulation stripping

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



Partially mated connectors

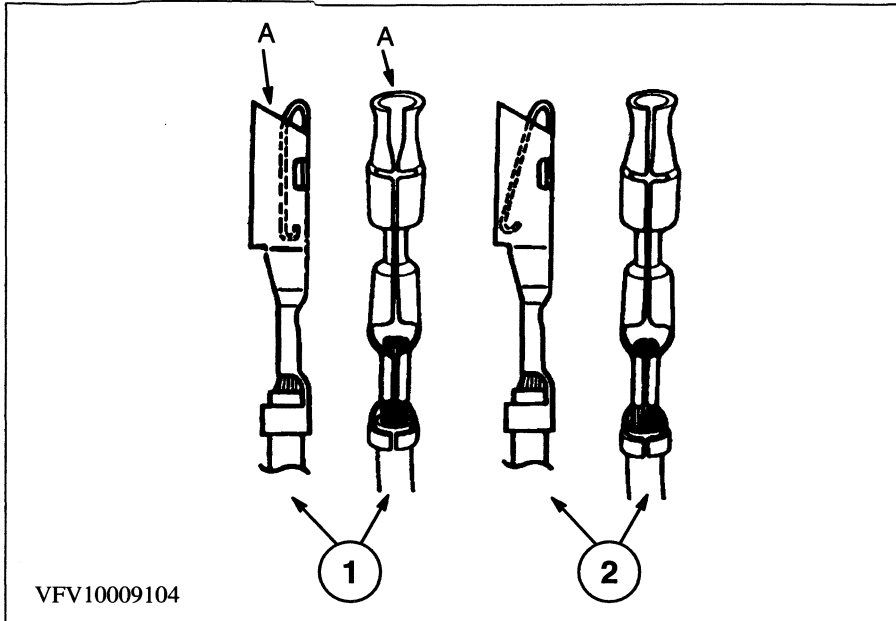
- 1 = Seal
- 2 = Displaced tab
- 3 = Female half
- 4 = Seal
- 5 = Intermittent contact
- 6 = Male half
- 7 = Intermittent contact

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

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Deformed (enlarged) female terminals

- 1 = Enlarged
- 2 = Normal

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



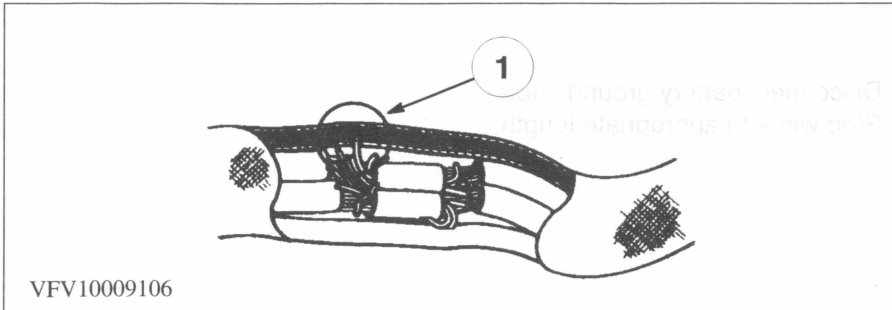
Electrical short inside the harness

- 1 = Solder coated wire to ground
- 2 = Harness protective tape
- 3 = Intermittent short
Solder coated wire pierced through the insulation of another circuit
- 4 = Grounding foil

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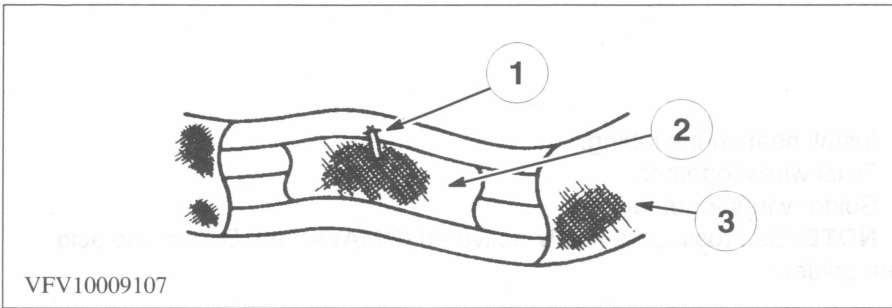


Electrical short within the harness

Splice tape removed

- 1 = Intermittent short

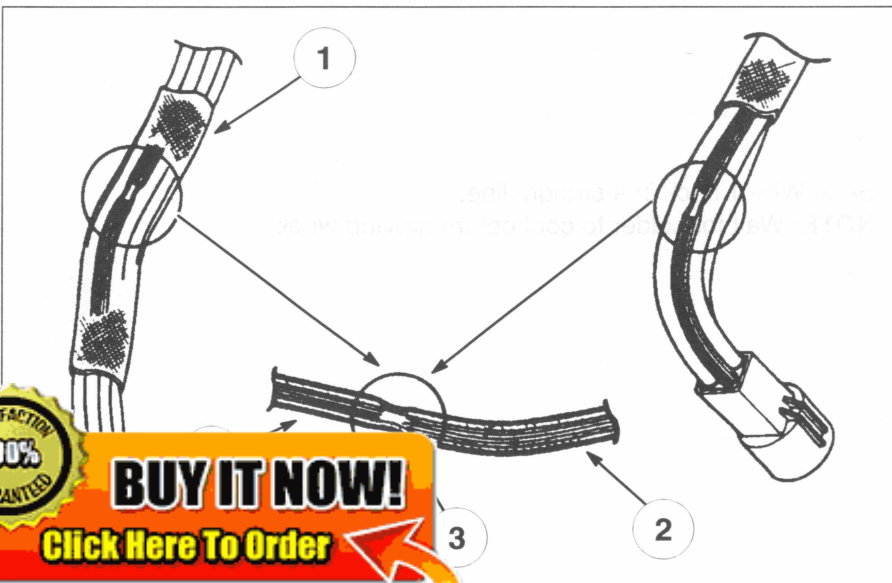
VFV10009106



Splice covered

- 1 = Wire strand
- 2 = Splice tape
- 3 = Harness tape

VFV10009107



Broken wire strands in harness

- 1 = Wiring harness tape
- 2 = Wiring strand
- 3 = Broken strands intermittent signal
- 4 = Circuit insulation

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

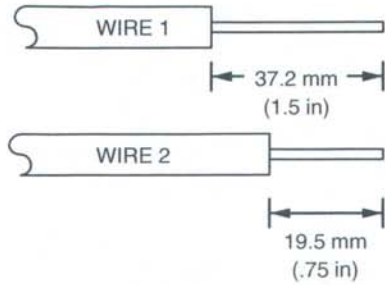
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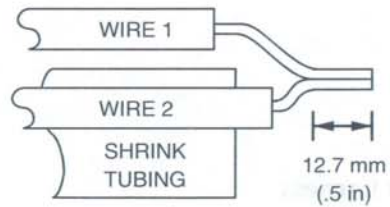
5.5 Connector Repair Procedures



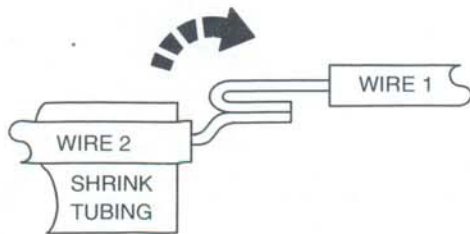
Prepared splicing method



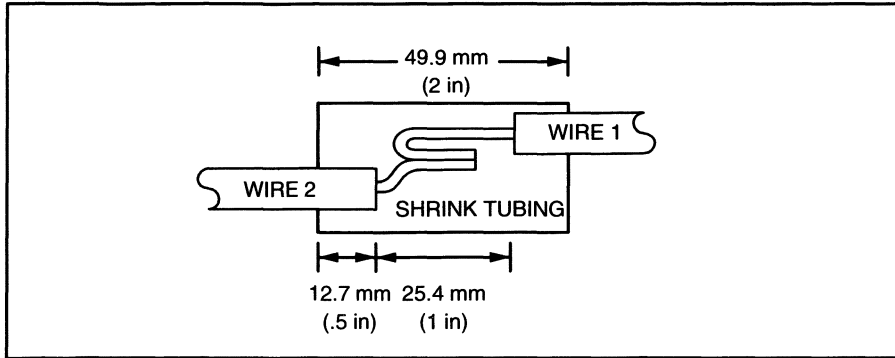
1. Disconnect battery ground cable.
2. Strip wires to appropriate length.



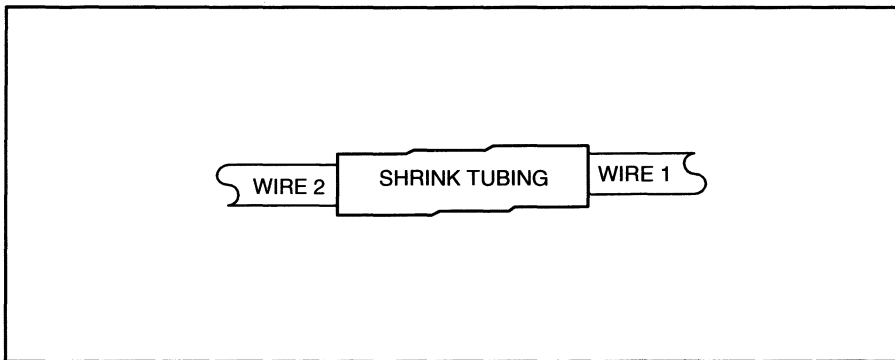
3. Install heat shrink tubing.
 4. Twist wires together.
 5. Solder wires together.
- NOTE:** Use rosin core mildly-activated (RMA) solder. Do not use acid core solder.



6. Bend Wire 1 back in a straight line.
- NOTE:** Wait for solder to cool before moving wires.



7. Evenly position heat shrink tubing over wire repair.
NOTE: Overlap tubing on both wires.



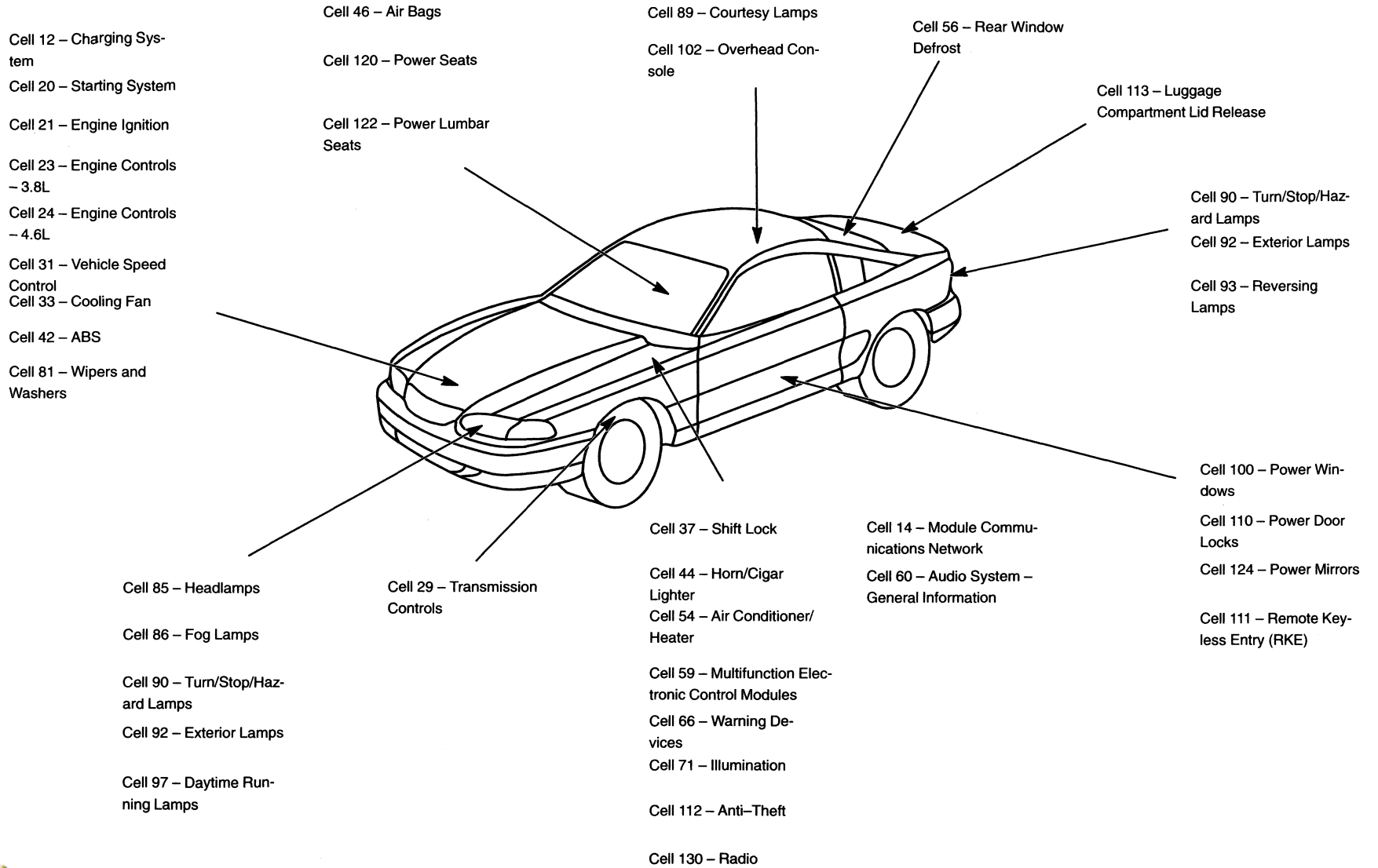
8. Use heat gun to heat the repaired area until adhesive flows out of both ends of heat shrink tubing.
9. Reconnect battery ground cable.

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8-1 Systems Overview



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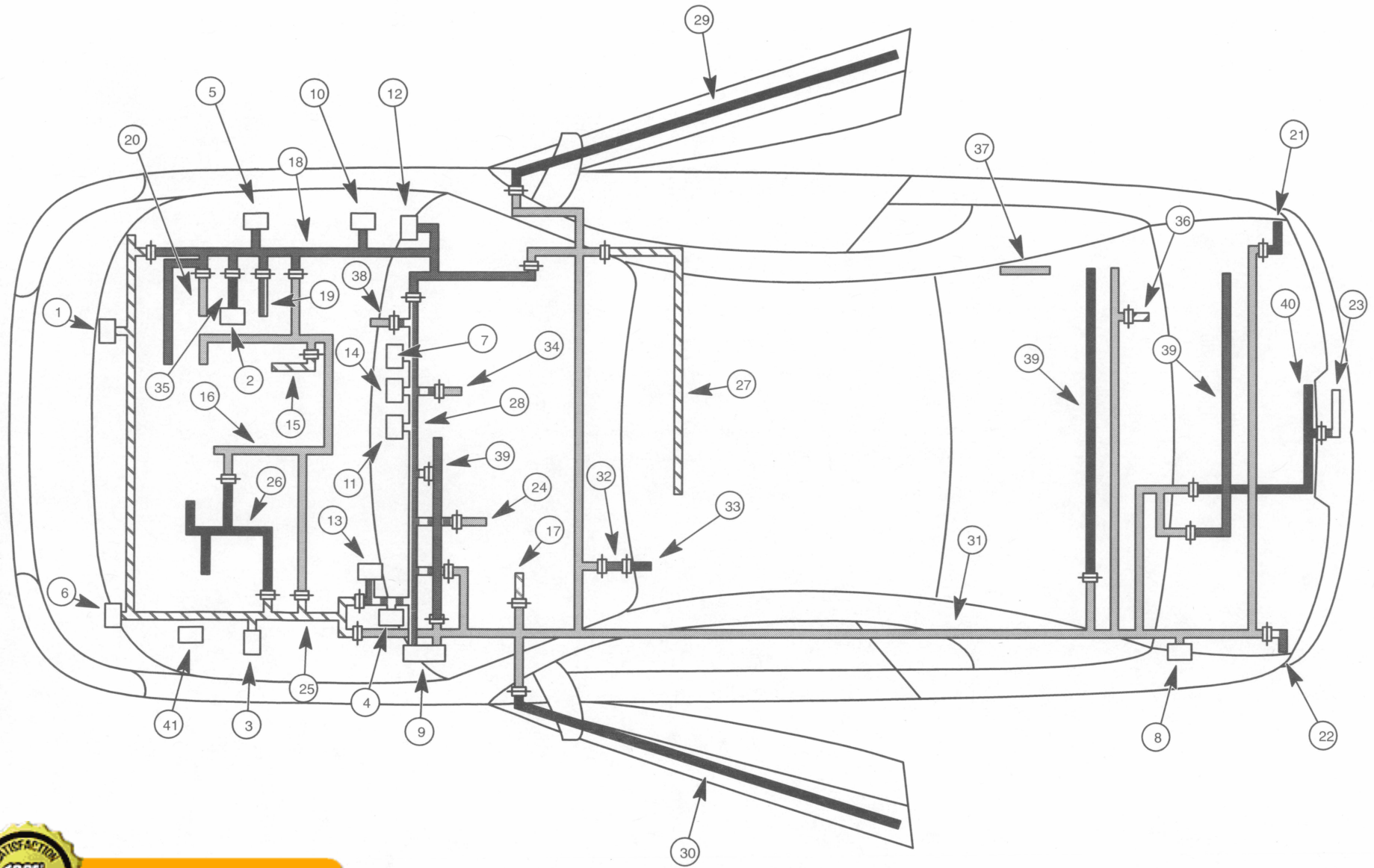
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9-1 Wiring Harness Overview

NOTA



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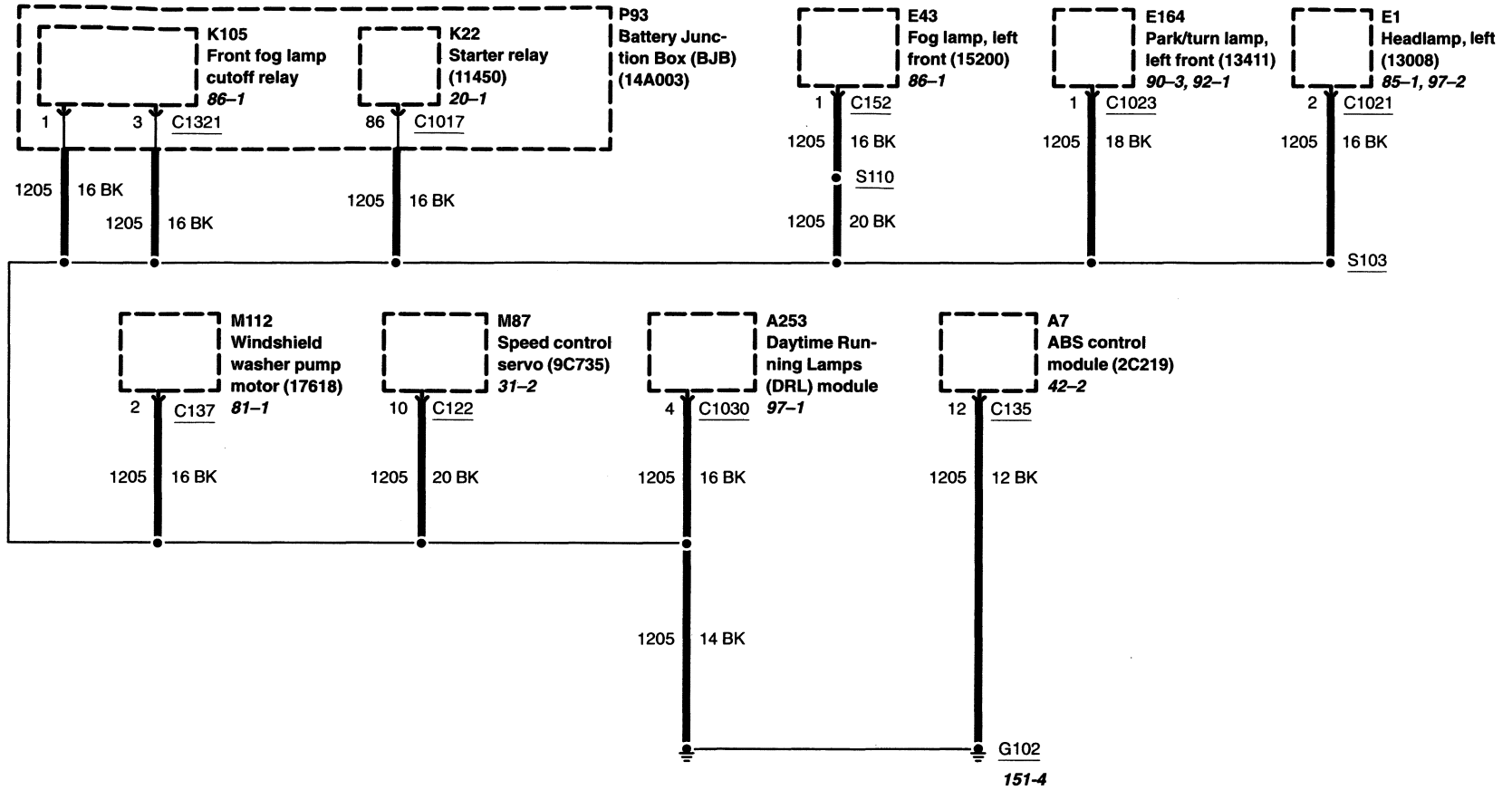
Two-door model

Item	Part Number	Description
1	A7	ABS control module (2C219)
2	P92	Auxiliary fuse box
3	P93	Battery Junction Box (BJB) (14A003)
4	P91	Central Junction Box (CJB) (14A068)
5	A426	Constant Control Relay Module (CCRM)
6	A253	Daytime Running Lamps (DRL) module
7	A17	Electronic flasher module
8	A195	Fuel pump driver module (9H307)
9	A112	Generic Electronic Module (GEM) (14B205)
10	A149	Inlet Manifold Runner Control (IMRC) module
11	A102	Passive anti-theft transceiver module (15607)
12	A147	Powertrain Control Module (PCM) (12A650)
13	P98	Relay box
14	A208	Restraints control module (14B321)
15	7C078	Wiring harness – Transmission control selector neutral switch (automatic transmission)
	15525	Wiring harness – Reversing lamps switch, to, Rear, lamp feed (manual transmission)
16	9D930	Wiring harness – Fuel charge (3.8L)
	12B637	Wiring harness – Engine control sensor and fuel charge (4.6L)
17	12638	Wiring harness – Starter relay circuit
18	12A581	Wiring harness – Engine control sensor
19	12B559	Engine, to knock sensor
20	12B566	Wiring harness – Engine electronic control air sensor
21	13407	Wiring harness – Rear lamp, Right
22	13410	Wiring harness – Rear lamp, Left
23	13A625	Wiring harness – High mounted stoplamp
24	13B319	Wiring harness – Turn signal switch
25	14290	Wiring harness – Dash panel to headlamp junction
26	14305	Wiring harness – Alternator rectifier system (3.8L)
	14B060	Wiring harness – Starter motor relay and battery ground (4.6L)
27	14334	Wiring harness – Interior lamps (coupe)
	14335	Wiring harness – Interior illumination (Convertible)

Item	Part Number	Description
28	14401	Main wiring harness
29	14630	Wiring harness – Window regulator, right front door
30	14631	Wiring harness – Window regulator, left front door
31	14A005	Wiring harness – Body Main
32	14A546	Wiring harness – Safety belt switch, Extension (without power seats)
	14C719	Wiring harness – Seat control feed jumper (with power seats)
33	14A699	Wiring harness – Power seats (without lumbar)
	14B084	Wiring harness – Lumbar adjust switch, driver side (with lumbar)
34	14B079	Wiring harness – Console Panel
35	14K095	Wiring harness – Fan motor
36	18C619	Wiring harness – Rear window heater
37	18C620	Wiring harness – Rear window heater ground
38	18C629	Wiring harness – Blower motor
39	19B113	Wiring harness – Radio amplifier
40	19B516	Wiring harness – Rear license plate lamp
41	–	Battery



G102

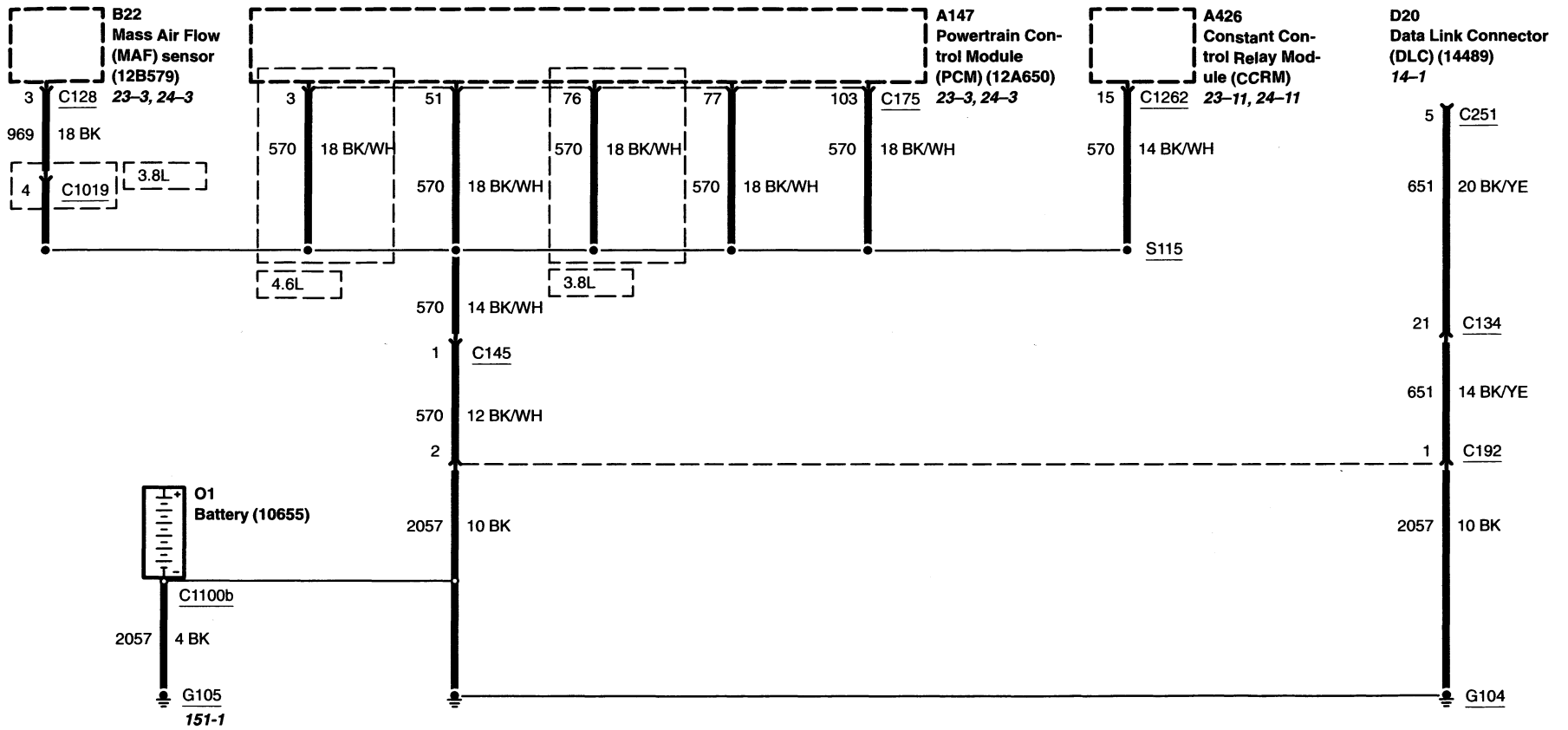


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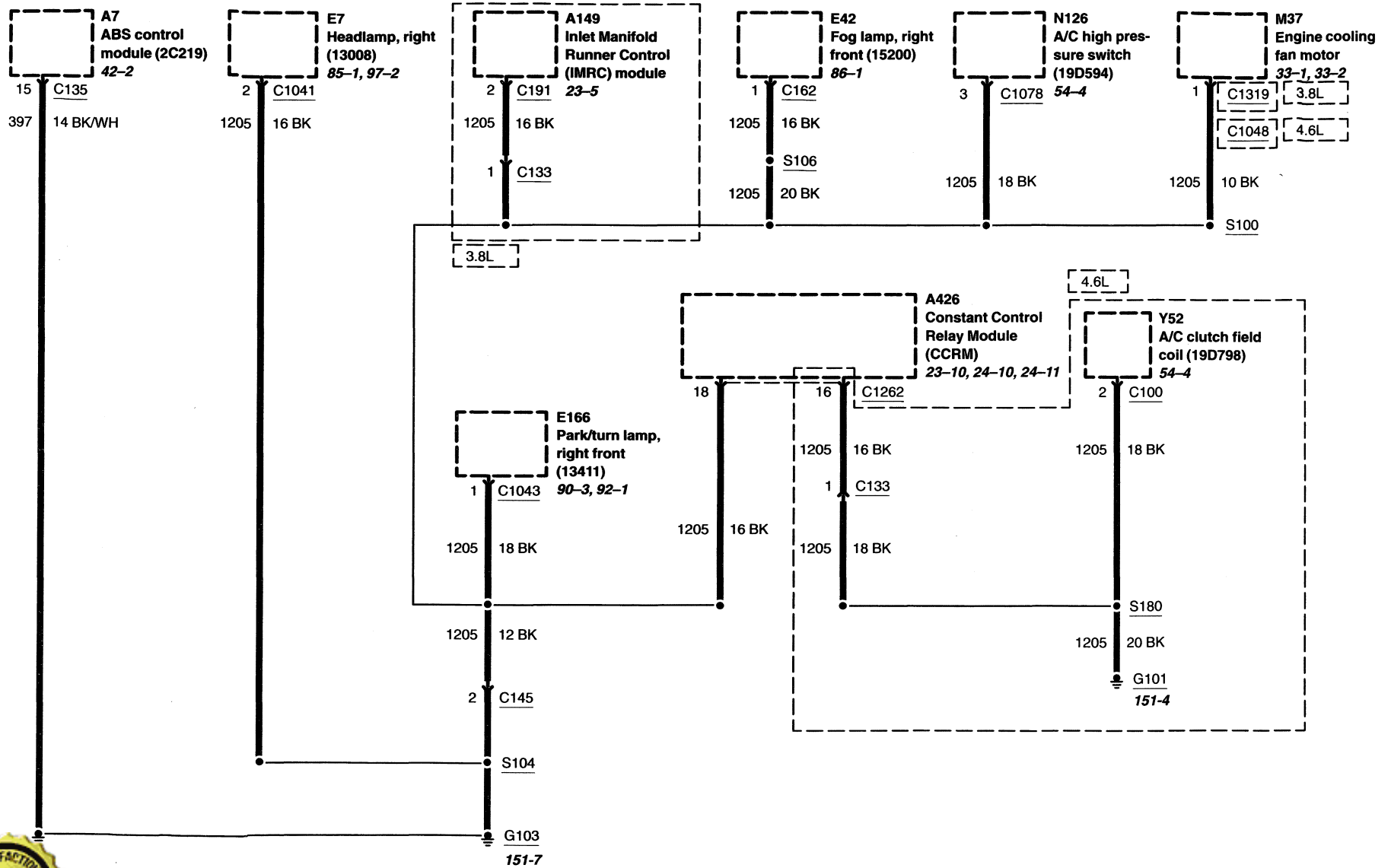
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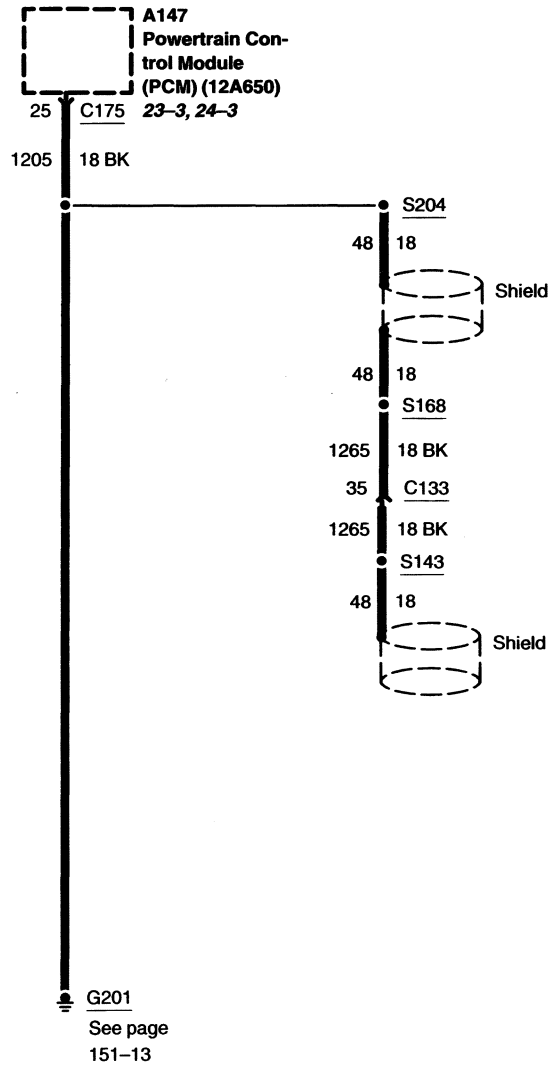


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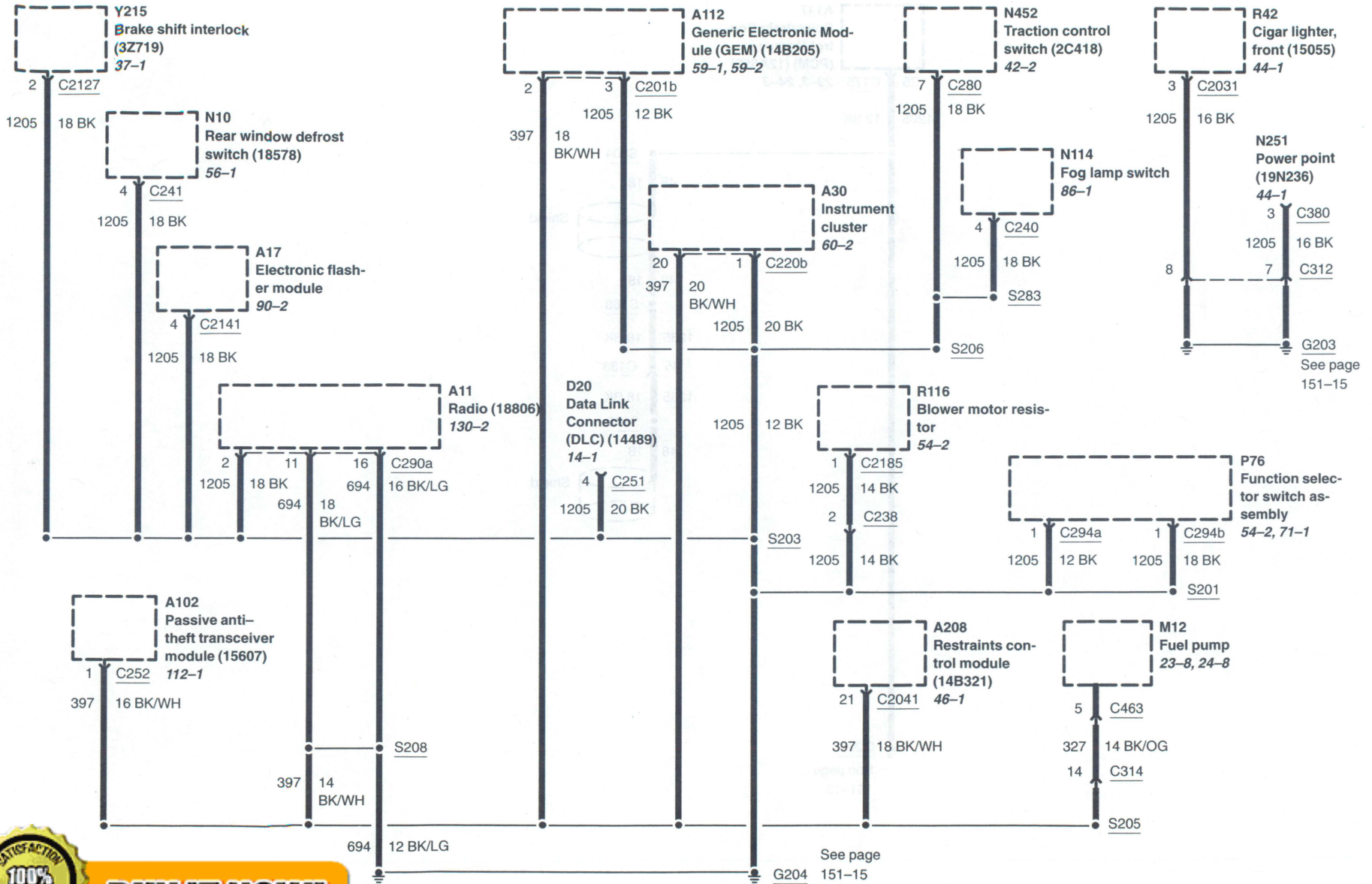
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G203, G204



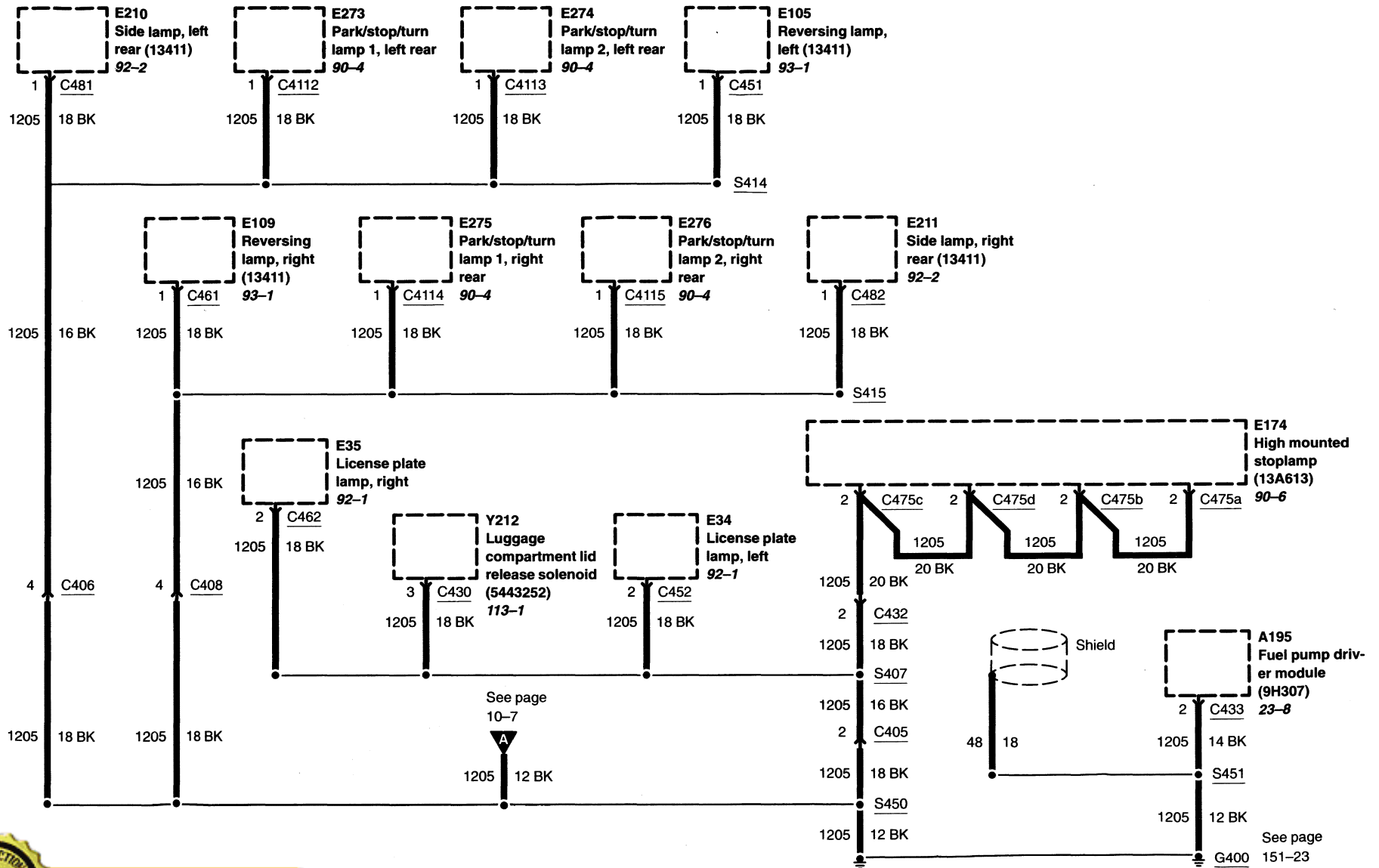
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