



Body Wiring Manual



**Aeromaster on
Workhorse Chassis**

Read First: Top Tips on Using This Online Manual

Browse pages with Bookmarks (hyperlinks) or Thumbnails

Bookmarks, at the left of the screen, are hyperlinks to document pages. From any page in this document, you can use bookmarks to jump to any section heading.

To jump to a topic by using its bookmark, point to the bookmark name, and when the arrow becomes a pointing hand, click on the name. If a triangle (or + sign) appears to the left of the bookmark, click the triangle (or + sign) to show or hide subordinate bookmarks.

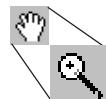


Thumbnails are visual icons of the actual pages. After selecting the thumbnail view button (Acrobat Reader ver. 3.0) or tab (ver. 4.0), you can quickly browse for parts sections just by the “look” of the page. Click on the appropriate thumbnail to view that page.



Use the Zoom and Fit tools for magnification of page sections

Select the Zoom tool. (**In ver. 4.0, when the Hand tool is selected, you can temporarily change to the Zoom tool by holding down the Ctrl key and the space bar at the same time.**) Click and drag to draw a rectangle around the area you want to magnify.



To return to an overview, you can click on one of the following buttons:

- The Fit Page button scales the *entire* page to display within the main window.
- The Fit Width button scales the page *width* to display within the main window.



Use the Text tool for copying selected text into other applications

You can select text in a PDF document, copy it to the Clipboard, and paste it into another application. **By pasting parts descriptions and numbers into your email, you can order parts much faster than through phoning or faxing.** To select text and copy it to the Clipboard:



1. Click the Text Selection tool.
2. Click and drag over the text you want to select. When you release the mouse button, the selected text stays highlighted.
3. Hold down the Ctrl key and press C on the keyboard to copy the selected text to the Clipboard.

Find parts or procedures with the Find tool

Use the Find tool to search for a fragment of a word, a complete word, or multiple words in the active document. To **find** a word (e.g., a part name):



1. Click the Find tool.
2. In the Find What text box, enter the text to be found and click Find. When the program finds the text, the Find dialog box closes and the page containing the text is displayed with the text highlighted.
3. To find the **next occurrence** of the word, press F3, press Ctrl + G, or reopen the Find dialog box and click Find Again.

Revision Control

Revision	Print Date
Rev. A	April 2003

Important Notices

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Title: *Aeromaster on Workhorse Chassis—Body Wiring Manual*

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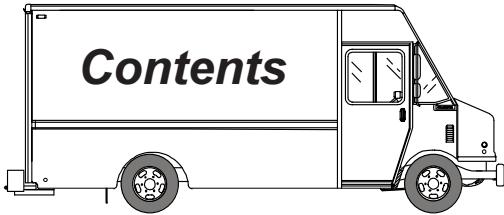
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<i>Introduction</i>	6
<i>Finding Information</i>	7
<i>VIN Number</i>	7
<i>Body Serial Number</i>	7
<i>Safety Considerations</i>	8
<i>General Warnings</i>	8
<i>Disconnecting the Battery</i>	9
<i>Reporting Safety Defects (U.S. Only)</i>	9
<i>More Information</i>	10
<i>Utilimaster Quick Reference Parts Guide</i>	10
<i>Utilimaster Body on Workhorse Chassis Parts Manual</i>	10
<i>Utilimaster Glossary of Terms</i>	10
<i>Utilimaster Body Service Manual</i>	10
<i>Download Files</i>	10
<i>Contact Utilimaster</i>	10
<i>Wiring Diagrams</i>	11
1— <i>Wire Color Code and Symbol Key</i>	11
2— <i>Connectors</i>	12
<i>Cummins ISB4 Diesel Only</i>	12
<i>Standard</i>	13
3— <i>Harness Layout (Connector Locations)</i>	18
4— <i>Power Distribution</i>	19
5— <i>Grounding System</i>	20
6— <i>Switches</i>	21
7— <i>Cargo Lamps</i>	22
<i>Standard</i>	22
<i>Switch on Dash</i>	23
<i>Three-Way Switch</i>	24
8— <i>Wiper System</i>	25
<i>Standard and Cummins ISB4 Intermittent</i>	25
<i>Intermittent Option (Non-Cummins ISB4)</i>	26

9—Heater Only System	27
Cable Controls	27
Electronic Controls	28
9—HVAC System	29
Cable Controls	29
Electronic Controls	30
10—Chassis Supplied A/C Prep	31
11—Front Light Wiring	32
With Cummins ISB4 Diesel Engines	32
Without Daytime Running Lights	33
Daytime Running Lights (Domestic)	34
Daytime Running Lights (Canadian)	35
12—Rear Light Wiring	36
Standard	36
Routed through Interior	37
Split Taillights	38
Split Taillights Routed through Interior	39
13—Roof Wiring	40
14—Clearance Lights	41
15—Panel Lights (HVAC Control Panel)	42
16—Stereo System	43
17—Door Ajar System	44
18—Supplemental High Mount Stop Lamp (SHMSL)	45
19—Accessory Outlet (Cigarette Lighter)	46
20—Cab Dome Light	47
21—Dash Fan	48
22—Power Vent	49
23—Heated Mirrors	50
24—Auxiliary Heater	51
25—Spotlight or Strobe Light	52
Index	53

Introduction

This manual illustrates electrical wiring diagrams for Aeromaster® walk-in bodies on the P-3 Series Workhorse “strip” chassis (Model Years 1999 and later) and the P-3 Series Chevrolet and GMC “strip” chassis (Model Years built from 1996 through 1998). Whether your truck is based on GMC, Chevrolet, or Workhorse chassis, the majority of information is interchangeable by design and are all referred to as the Model 33.



Some configurations, however, depend on the chassis engine option. The four-cylinder Cummins diesel with **electronic** fuel injection (ISB4) engine has the most unique wiring variations, which is noted throughout this manual. The four-cylinder Cummins diesel with **manual** fuel injection (4BT) engine is not specified because it uses the standard wiring configurations. The eighth digit in the VIN Number identifies the engine code (**P** for the ISB4 or **L** for the 4BT) but typically the ISB4 engine block is painted black while the 4BT is tan in color. (See also the chart below and the VIN Number section on the next page.)

Workhorse Vehicle Identification Number (VIN) Codes			
Code Position	Definition	Character	Description
8 (of 17)	Engine	R	5.7 V8
		W	4.3 V8
		Y	6.5 V8 Diesel Naturally Aspirated
		F	6.5 V8 Diesel Turbo
		L	4.9 4BT Diesel Manual
		P	4.9 ISB4 Diesel Electronic

This manual covers only those components manufactured by or installed by Utilimaster® Corporation. Items such as chassis and drive train components or certain interior options are covered by separate manufacturer-supplied information. Not all options are included in this manual and some part numbers have changed from previous model years.

If your vehicle is equipped with a VACS system, supplementary information is in *Vehicle Access Controls System for Utilimaster Walk-In Vans Operation and Service Manual* (P/N 03102103). To order that manual, call 800-237-7806 (574-862-3219), fax 574-862-7637, or email CustSvc@Utilimaster.com.

All information, specifications, and illustrations contained in this manual are based on the latest product information available at the time of publication. However, because of the Utilimaster policy of continual product improvement, Utilimaster reserves the right to amend the information in this document at any time without prior notice.

Finding Information

The Contents lists *sections* (and their respective *pages*) containing wiring diagrams and other information. The Index lists *pages* on which the indexed topics can be found.

Sheet numbers indicated by last two digits in the drawing number (lower right-hand corner of the drawing when viewed at the normal viewing angle) refer to the engineering drawing page numbers but are *not* in numerical order. These numbers are *not* meant to match the manual section or page numbers.

NOTE: If you are using the Adobe Acrobat version of this document printing out pages for detailed study is recommended because of the 90° rotation of the diagrams. Printing individual pages or a range of pages from the Acrobat Reader is easily accomplished by selecting File, Print, and then the desired print range.

VIN Number

The chassis 17-digit **Vehicle Identification Number (VIN)** is the legal identifier for this vehicle and is the number recorded in the license plate registration. The VIN appears on a small metal plate in the front corner of the dash on the driver's side, and you can read the VIN by looking through the windshield. The VIN is also recorded on the Federal Certification Label.

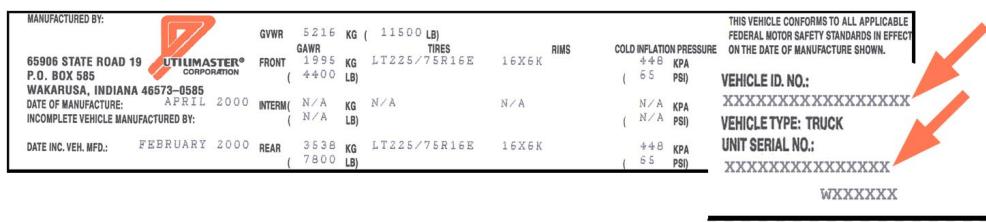


VIN Tag

Body Serial Number

The 15-digit **Utilimaster Body (or Unit) Serial Number** is recorded on the Federal Certification Label. This label is a plastic decal (about 11" long and 2" high) that contains a variety of manufacturing information (including the VIN). This label is near the top of the door frame between the driver's side window and the quarter-panel window.

You will need the VIN or the Body/Unit Serial Number to order parts and make warranty claims.



Federal Certification Label

Safety Considerations

General Warnings

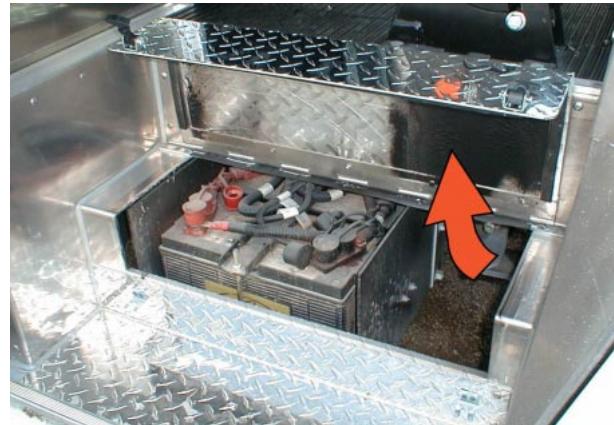
The following list contains some general WARNINGS that you should follow when you work on a vehicle.

- Be sure that the ignition switch is always in the OFF position, unless otherwise required by the procedure. For circuits that are not controlled by the ignition switch (e.g., lights), disconnect the negative terminal on the battery. (See instructions on the next page.)
- Even though the ignition is in the OFF position, an electric radiator fan can start to operate at any time by an increase in under-hood temperatures. Make sure the radiator fan is completely disconnected when working under the hood.
- Always wear safety glasses for eye protection.
- Use safety stands whenever a procedure requires you to be under the vehicle.
- Set the parking brake when working on the vehicle and if the vehicle has an automatic transmission, put the transmission in PARK.
- Operate the engine only in a well-ventilated area to avoid the danger of carbon monoxide.
- Keep yourself and your clothing away from moving parts when the engine is running, especially the fan and belts.
- To prevent serious burns, avoid contact with hot metal parts such as the radiator, exhaust manifold, tail pipe, catalytic converter, and muffler.
- Do not smoke while working on the vehicle.
- To avoid injury, always remove rings, watches, loose hanging jewelry, and loose clothing before beginning to work on a vehicle. Tie long hair securely behind your head.
- Avoid breathing A/C refrigerant and lubricant vapor or mist. Exposure may irritate eyes, nose, and throat. To remove R-134a from the A/C system use service equipment certified to meet the requirements of SAE J2210 (R-134a recycling equipment). If accidental system discharge occurs, ventilate work area BEFORE resuming service. Additional health and safety information may be obtained from refrigerant and lubricant manufacturers.

Disconnecting the Battery

The battery is located underneath a step in the right-hand stepwell.

1. Make sure the ignition switch is “Off.”
2. Unhook or unscrew the latches and flip up the battery panel (or remove the access cover) on the right-hand stepwell.
3. Disconnect the battery negative (black) cable.



Reporting Safety Defects (U.S. Only)

If you believe that your vehicle has a defect that could cause a crash, injury, or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA), in addition to notifying Utilimaster.

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or Utilimaster.

To contact NHTSA, you may either call the Auto Safety Hotline toll-free at **1-800-424-9393**; in the Washington, D.C., area call **202-366-0123** or write to:

**NHTSA
U.S. Department of Transportation
400 Seventh Street
Washington, DC 20590**

You can also obtain other information about motor vehicle safety from the Hotline.

More Information

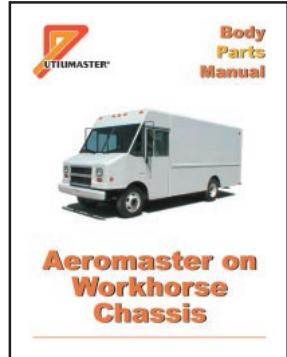
Utilimaster Quick Reference Parts Guide

Easily find commonly replaced parts for most Utilimaster vehicles in the *Utilimaster Quick Reference Parts Guide*. This illustrated document includes part numbers for bumpers, door hardware, electrical components, window glass, heater, air conditioner, hood, mirrors, sun visors, vents, mud flaps, roll-up door parts, seats, wiper, and many other parts. It also includes sealants, window replacement, and other repair kits.



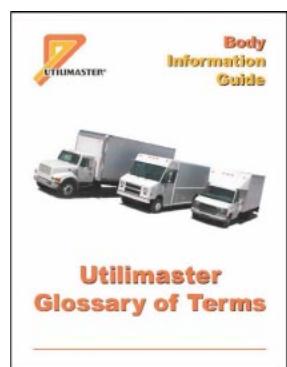
Utilimaster Body on Workhorse Chassis Parts Manual

Find parts specific to Utilimaster bodies mounted on GM, GMC, Chevy, or Workhorse chassis in the *Aeromaster on Workhorse Chassis—Body Parts Manual*.



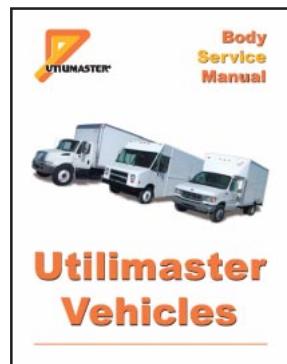
Utilimaster Glossary of Terms

If you are not familiar with some of the terminology used in this manual, you can find many Utilimaster and industry associated terms and definitions in the *Utilimaster Glossary of Terms—Body Information Guide*.



Utilimaster Body Service Manual

Read about routine maintenance procedures, troubleshooting, proper adjustment methods, vehicle repair, aftermarket upgrades, and much more in the *Utilimaster Vehicles—Body Service Manual*.



Download Files

Many support documents are downloadable (as Adobe® Acrobat® PDF files) from our web site at www.utilimaster.com. Click on the Technical Manuals button, to access the download page. To view the files you must have the Adobe Acrobat Reader version 3.0 or higher installed on your computer. Acrobat readers are available free for all leading computer operating systems on the Adobe web site (www.adobe.com).

Contact Utilimaster

Browse our site for more information about Utilimaster and its products or contact Utilimaster Customer Service by using one of the following methods:

- Call 800-237-7806 (or 574-862-3219).
- Fax to 574-862-7637.
- Email to CustSvc@Utilimaster.com.
- Mail to the following address:

Utilimaster
Attn: Customer Service Department
65528 State Road 19
P.O. Box 585
Wakarusa, IN 46573-0585 U.S.A.

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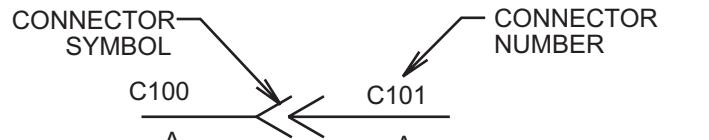
Wiring Diagrams

1—Wire Color Code and Symbol Key

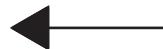
WIRE COLOR CODE:

BK - BLACK
BR - BROWN
DB - DARK BLUE
DG - DARK GREEN
GY - GRAY
LB - LIGHT BLUE
LG - LIGHT GREEN
OR - ORANGE
PK - PINK
RD - RED
YL - YELLOW
VT - VIOLET
WT - WHITE

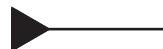
GROUNDED TO BODY



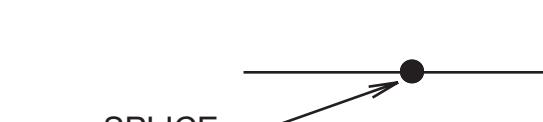
CONTINUE TO
ANOTHER SHEET



CONTINUED FROM
ANOTHER SHEET



CONTINUED WITH NO
NUMBER ASSIGNED



SPLICE

WIRE GUAGE CHART:

18 - 18GA
16 - 16GA
14 - 14GA
12 - 12GA

120 OR - WIPER POWER
510 BK/WT - GROUND
820 DG 16 - LOW SPEED
830 RD 16 - HIGH SPEED
840 GY 16 - PARK
890 VT 18 - WASHER PUMP

500 BK 14
WIRE GAUGE SIZE
WIRE COLOR
CIRCUIT NUMBER

CONNECTOR NUMBER
C100
COWL CONNECTOR
12020991
CONN. DESCRIPTION
CONN. PART NO.

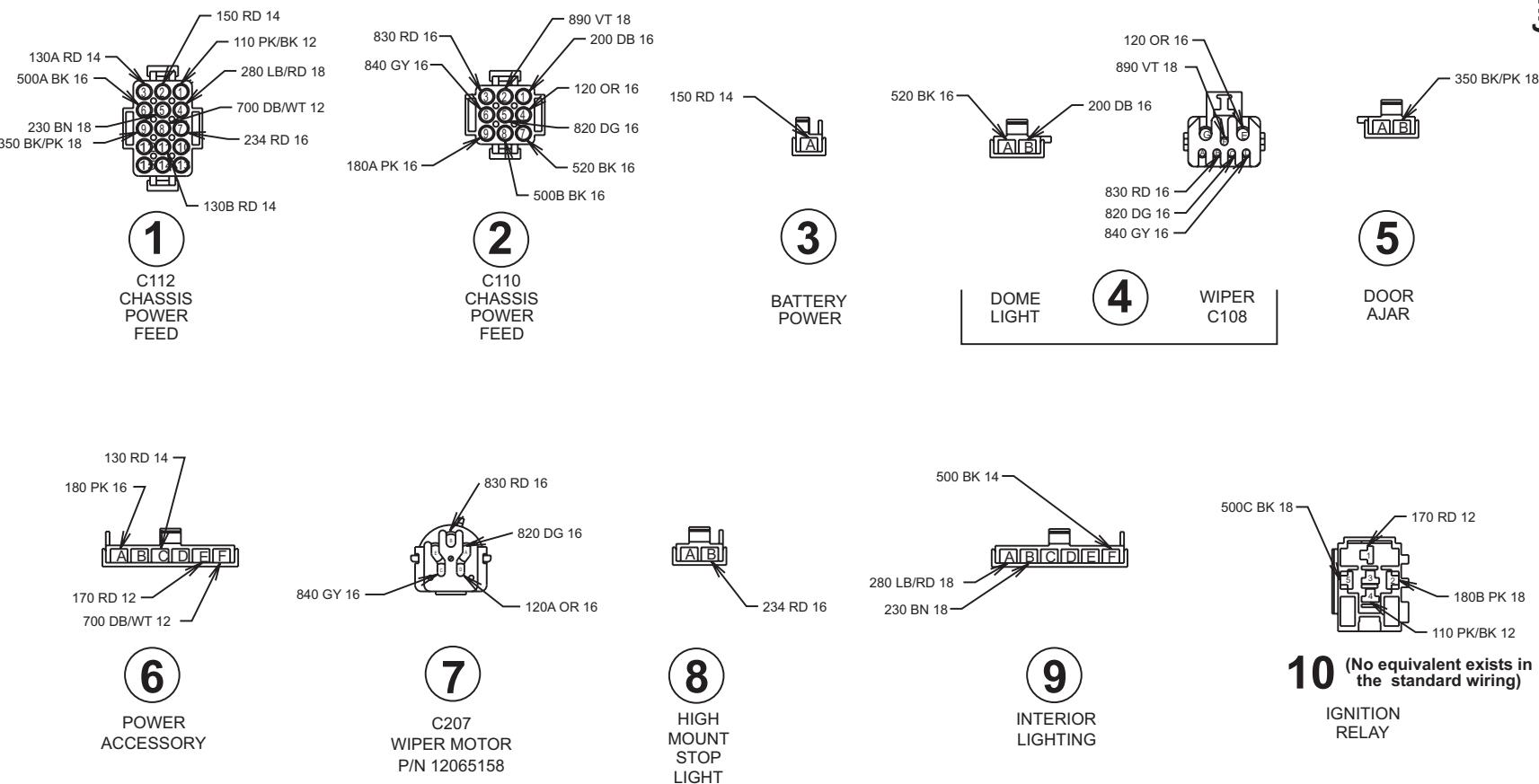
NOTES:

- 1) All connectors are shown in the **load (wire lead insertion)** position.
- 2) Special customer options may not be covered by these diagrams.
- 3) WIRE COLORS ON SOME OPTIONAL EQUIPMENT MAY VARY FROM THIS DOCUMENT.

2—Connectors

Cummins ISB4 Diesel Only

NOTE: These connectors are specific to vehicles with the Cummins ISB4 diesel engine. These replace the standard connectors on the following pages (see large circled numbers). For vehicles without the ISB4 engine, see only the following pages. To identify the engine of a vehicle, see page 6.



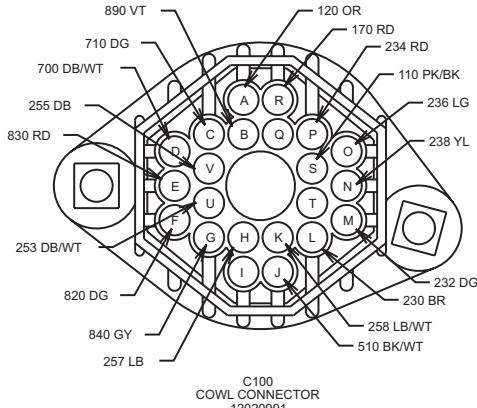
2—Connectors

Standard

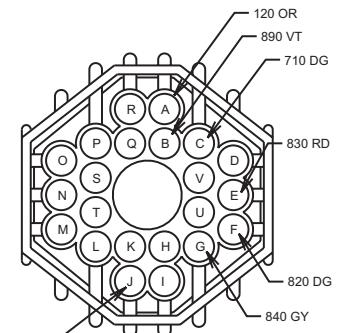
NOTE: These connectors are standard to all vehicles except those with the Cummins ISB4

*diesel engine.
For the con-
nectors on the
following*

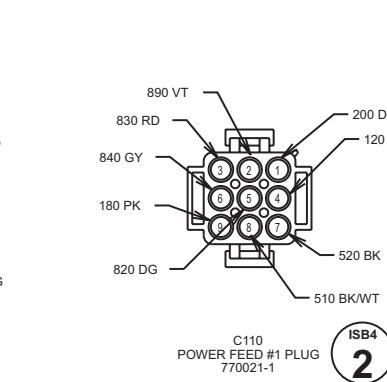
pages that are marked with a large circled number; see the replacement on page 12. For vehicles without the ISB4 engine, ignore page 12. To identify the engine of a vehicle, see page 6.



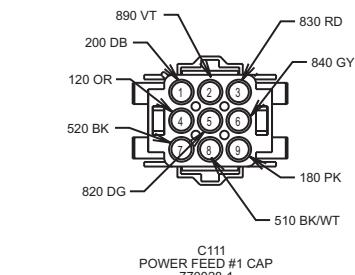
C100
COWL CONNECTOR



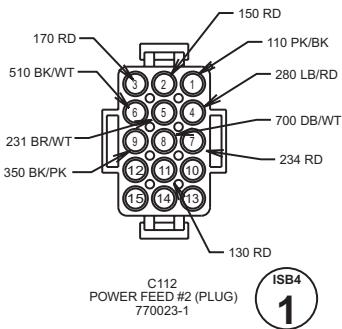
C101
COWL CONNECTOR



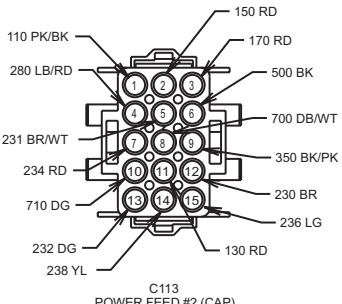
C110
POWER FEED #1 PLUG



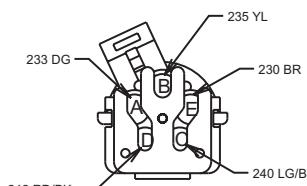
C111
POWER FEED #1 CAP



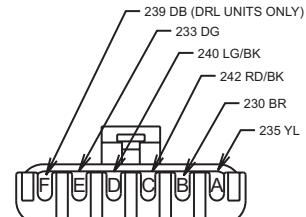
CT12
POWER FEED #2 (PLUG) 1



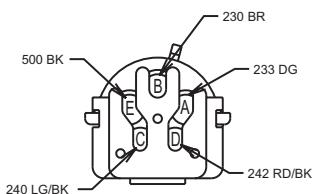
CTIS
POWER FEED #2 (CAP)



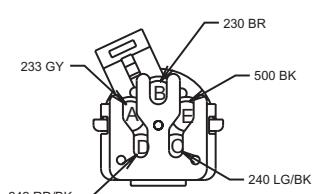
C200
FORWARD LAMP FEED



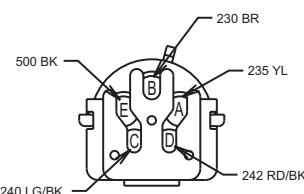
C200
FORWARD LAMP FEED



C202
RT HEADLAMP FEED
12066158



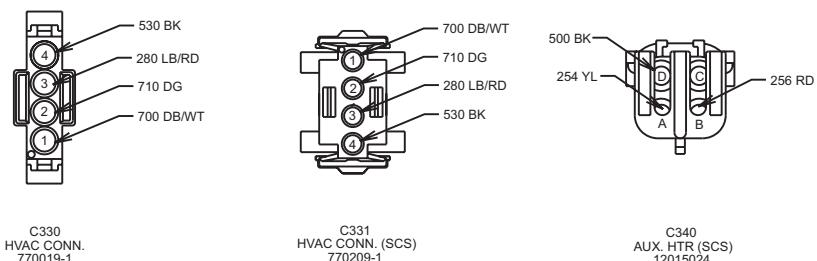
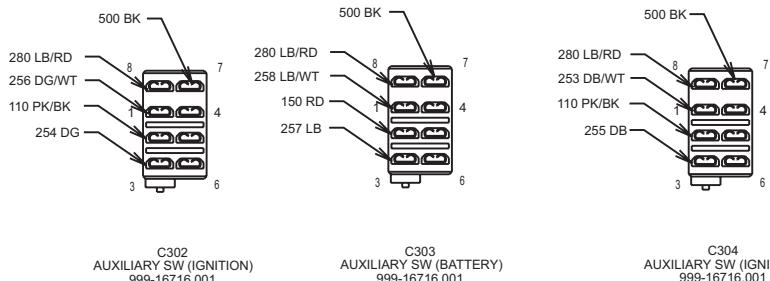
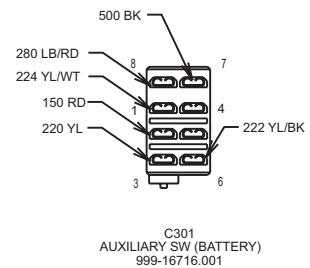
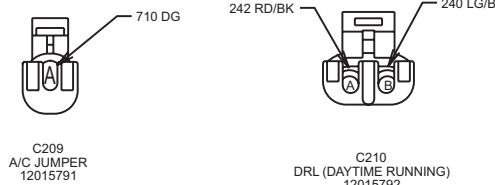
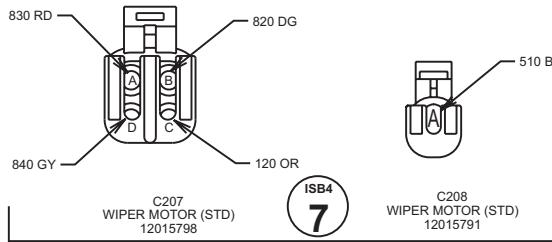
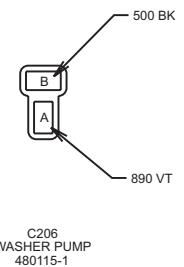
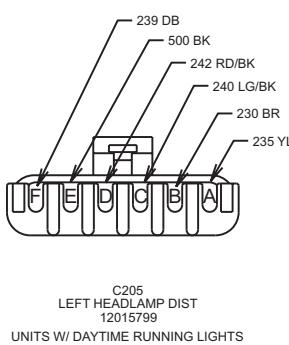
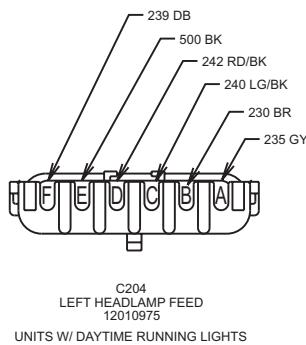
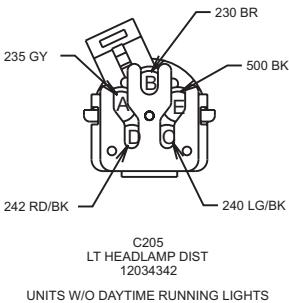
C203
RT HEADLAMP DIST
12034342



C204

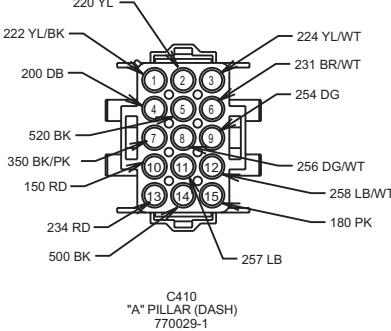
2—Connectors

Standard (continued)

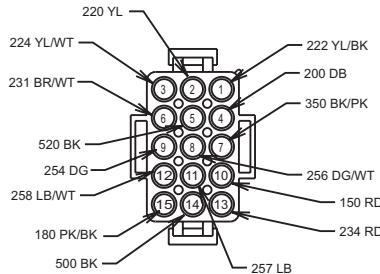


2—Connectors

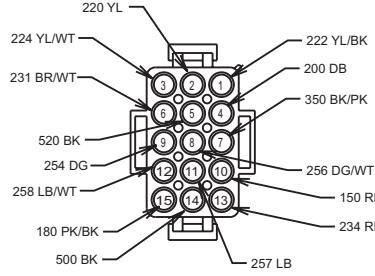
Standard (continued)



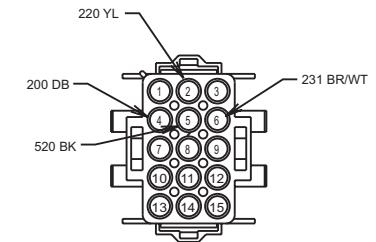
C410
"A" PILLAR (DASH)
770029-1



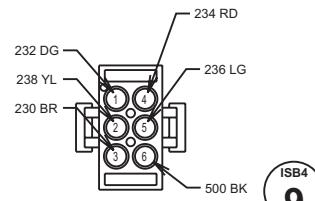
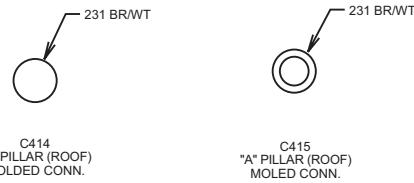
C411
"A" PILLAR (PILLAR)
770022-1



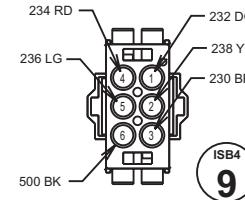
C412
"A" PILLAR (PILLAR)
770022-1



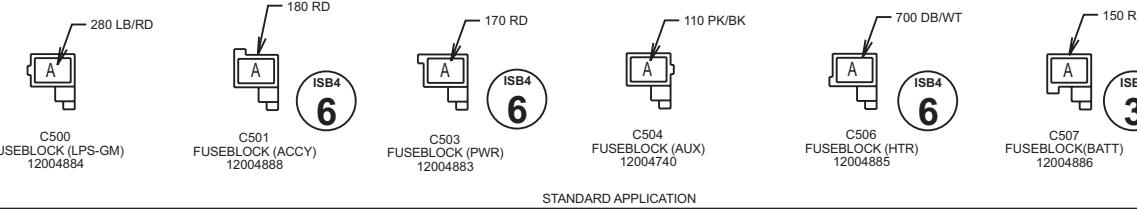
C413
"A" PILLAR (ROOF)
770029-1



C418
INTERIOR ROUTED
REAR LIGHTING
770020-1

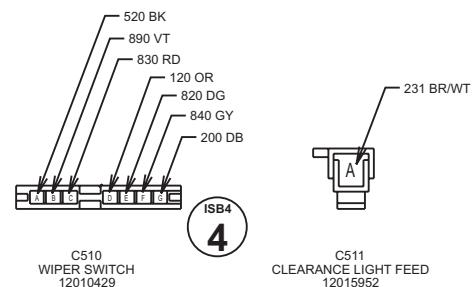


C419
INTERIOR ROUTED
REAR LIGHTING
770027-1



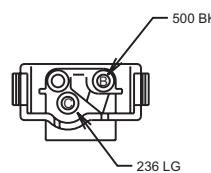
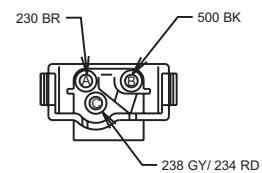
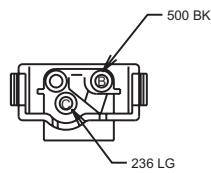
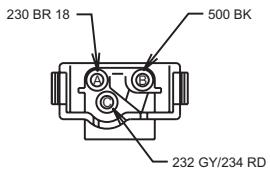
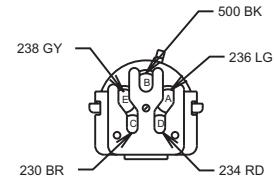
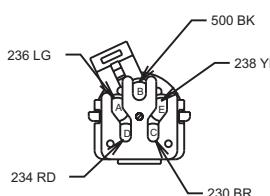
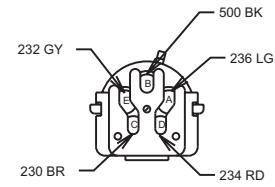
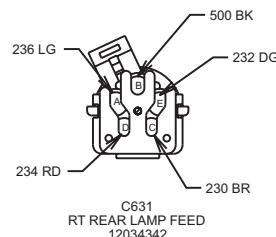
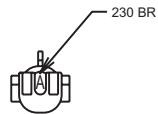
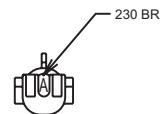
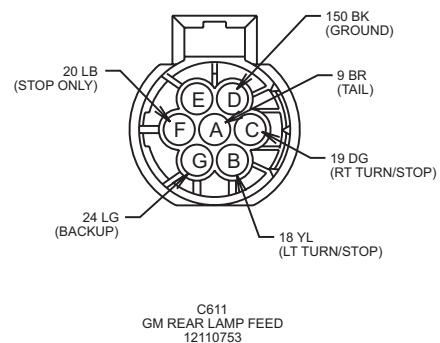
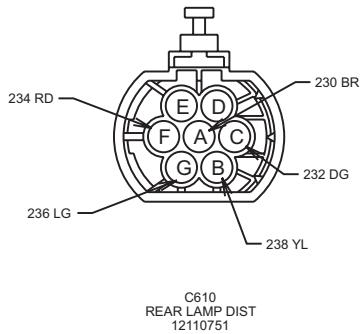
STANDARD APPLICATION

SEE ALSO 16513321b FOR THE 4BT CUMMINS

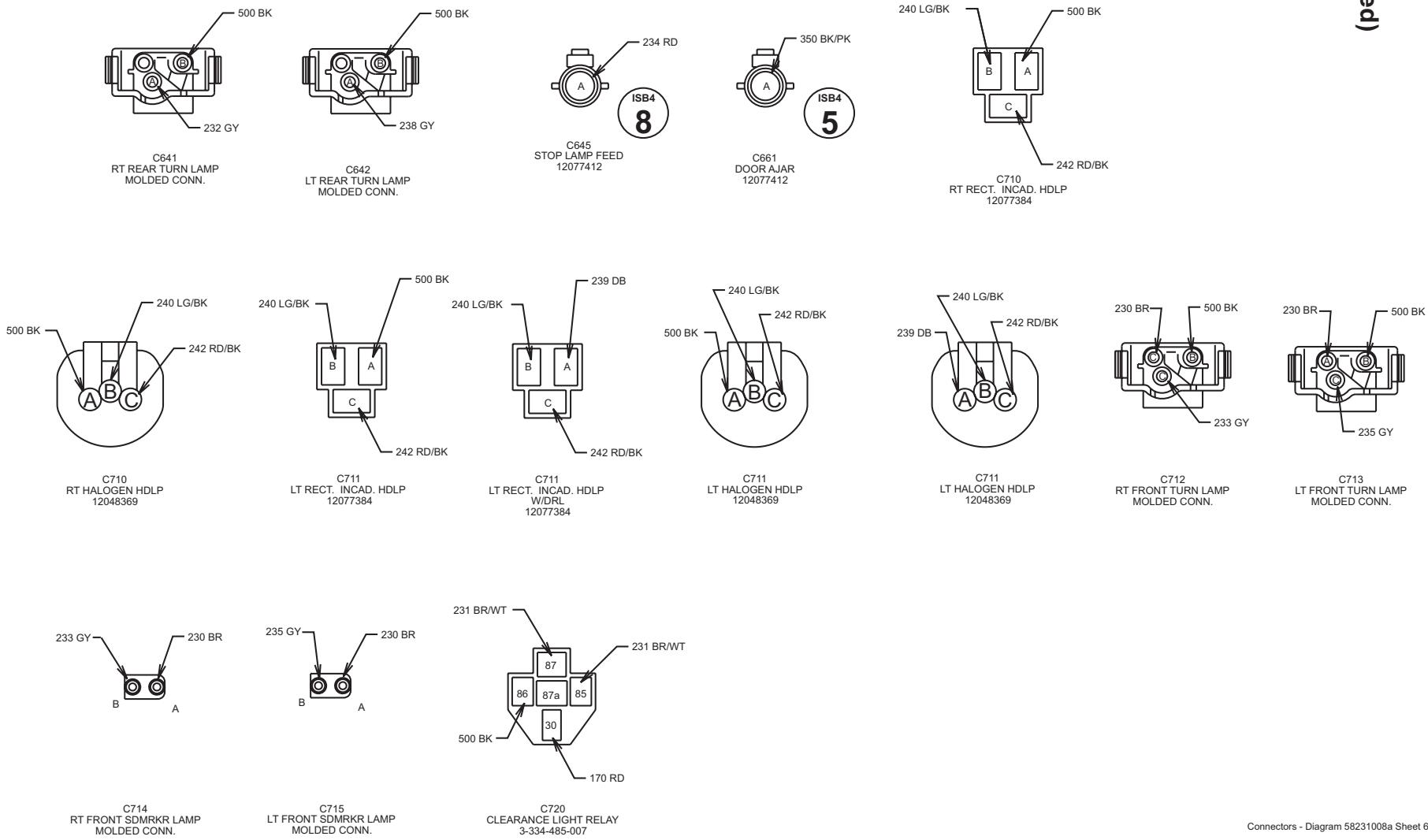


2—Connectors

Standard (continued)

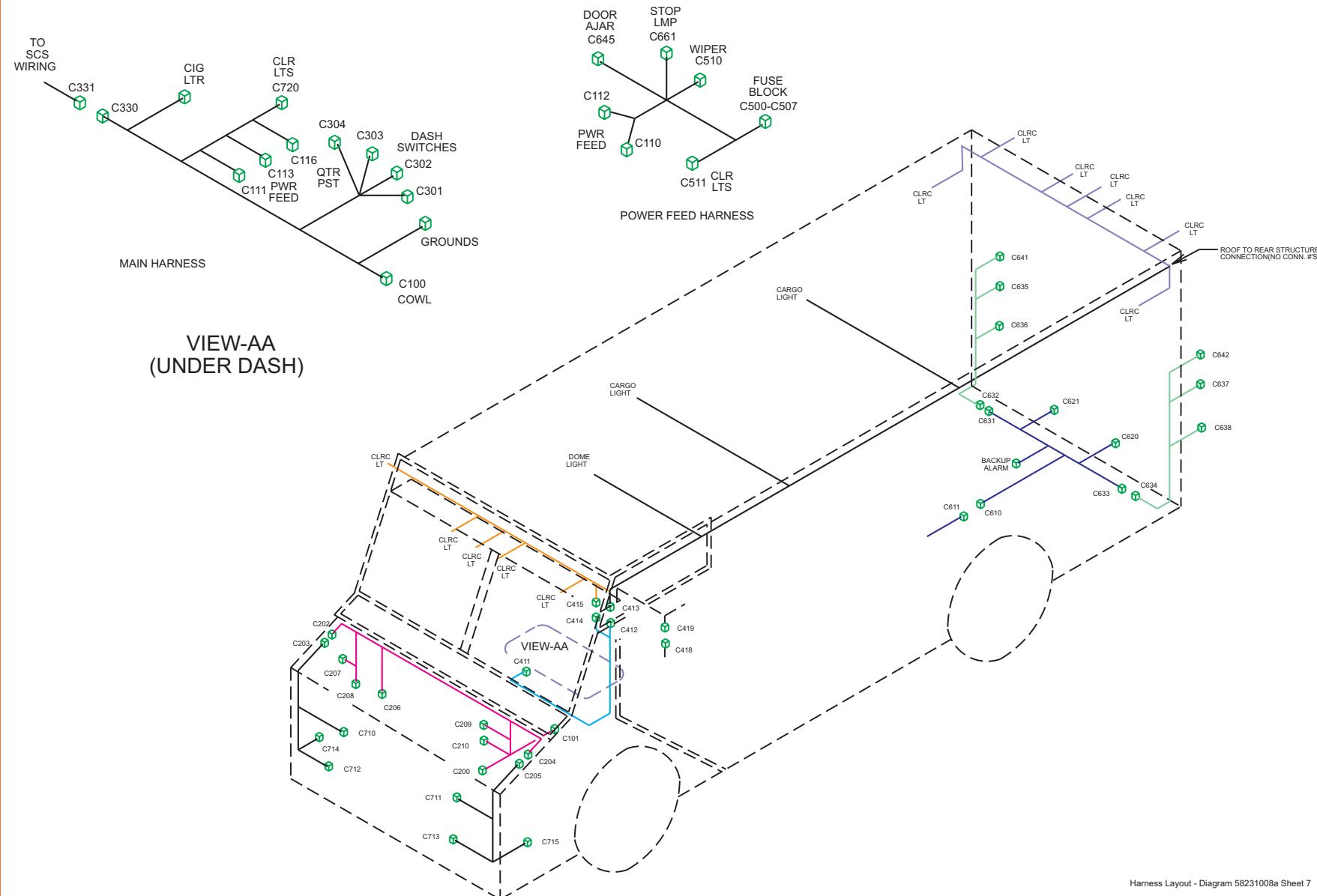


2—Connectors Standard (continued)

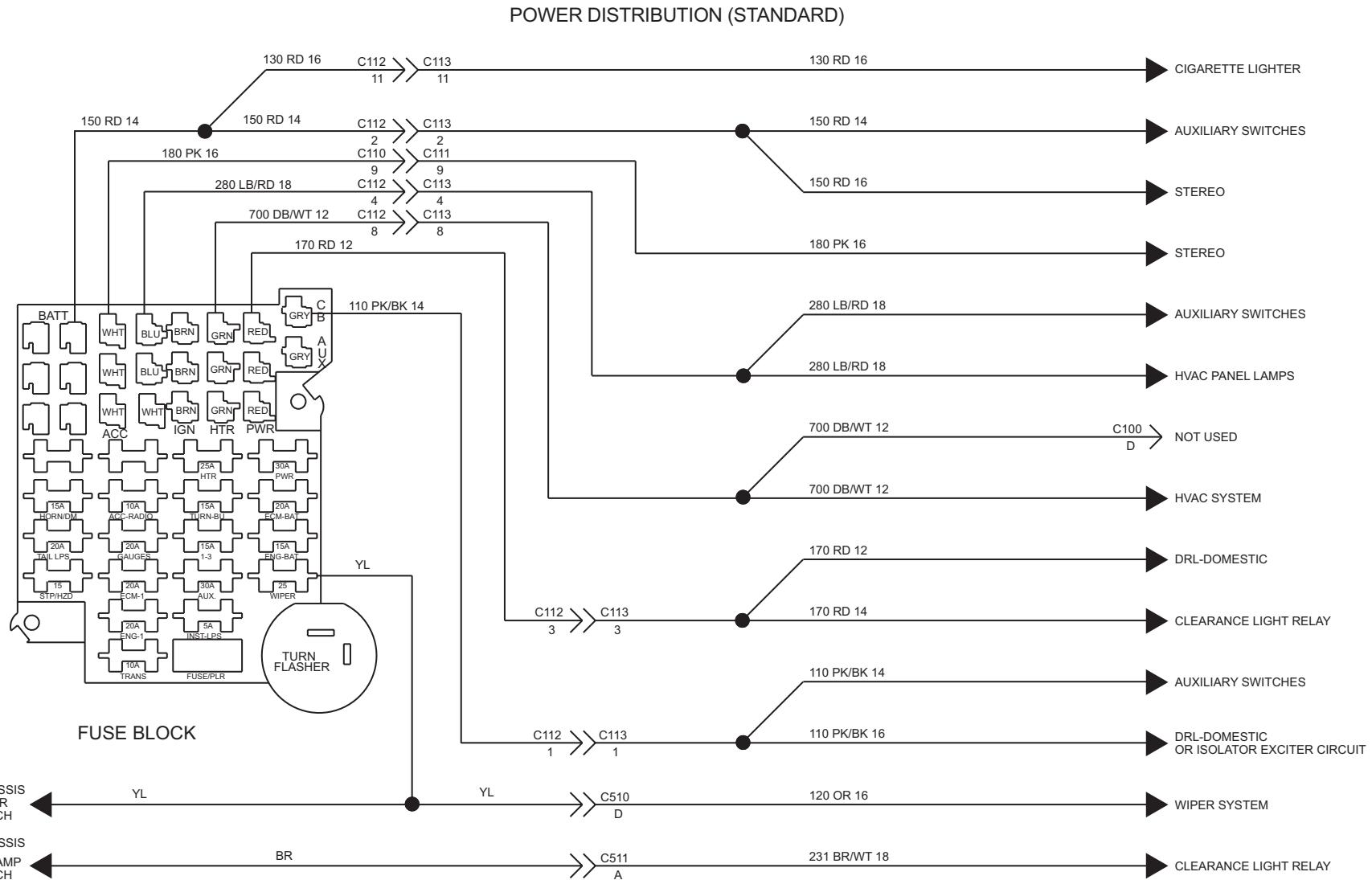


3—Harness Layout (Connector Locations)

18

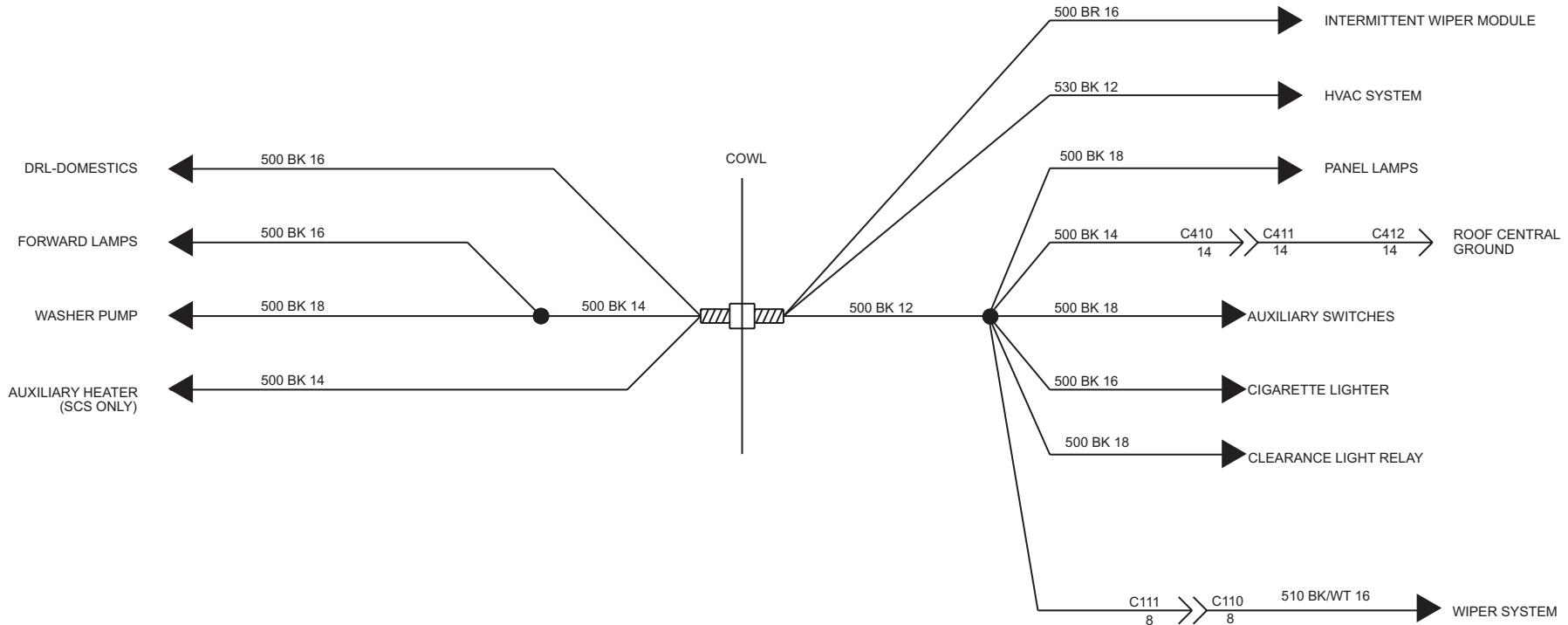


4—Power Distribution



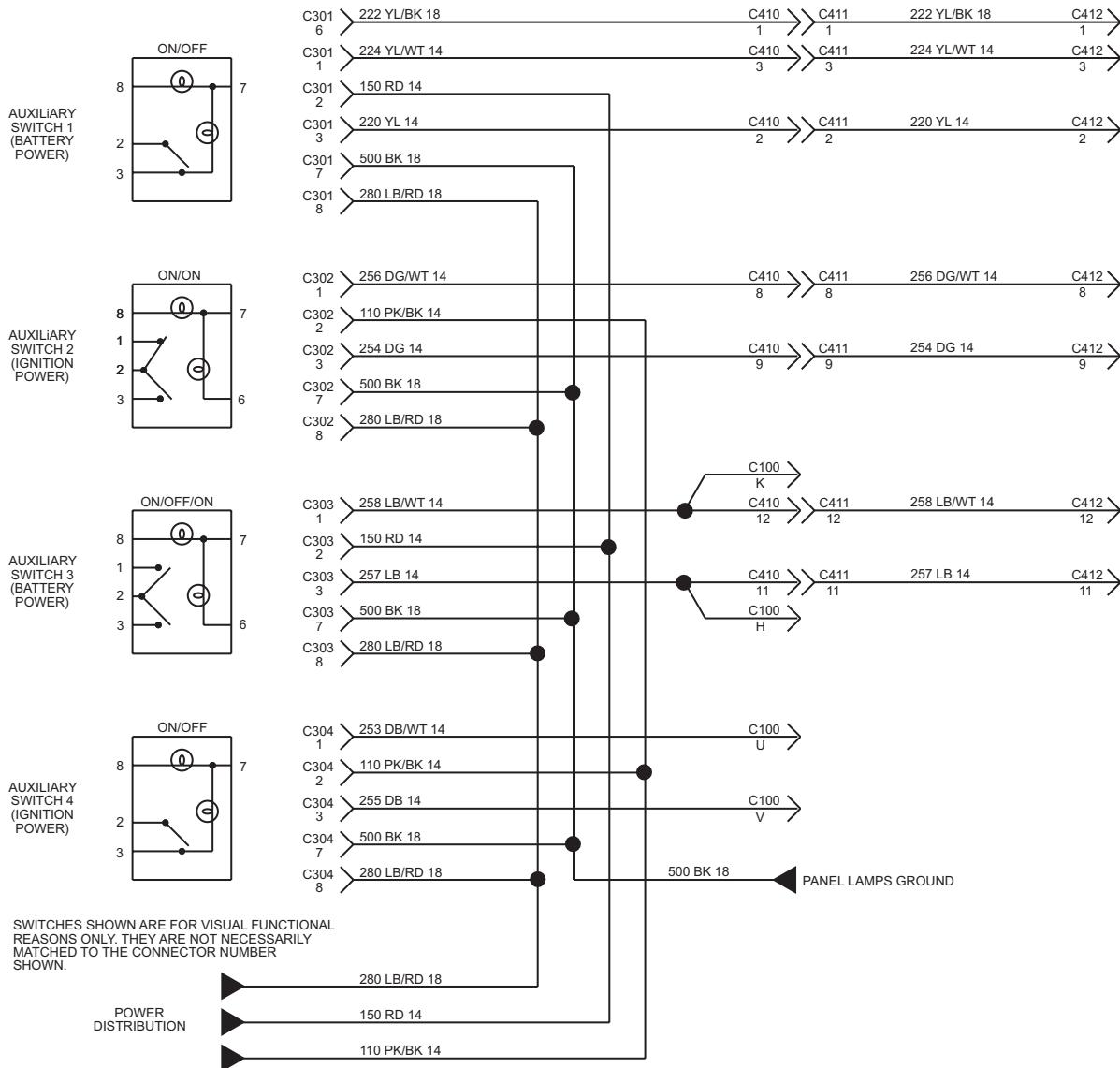
5—Grounding System

GROUNDING SYSTEM



6—Switches

SWITCHES



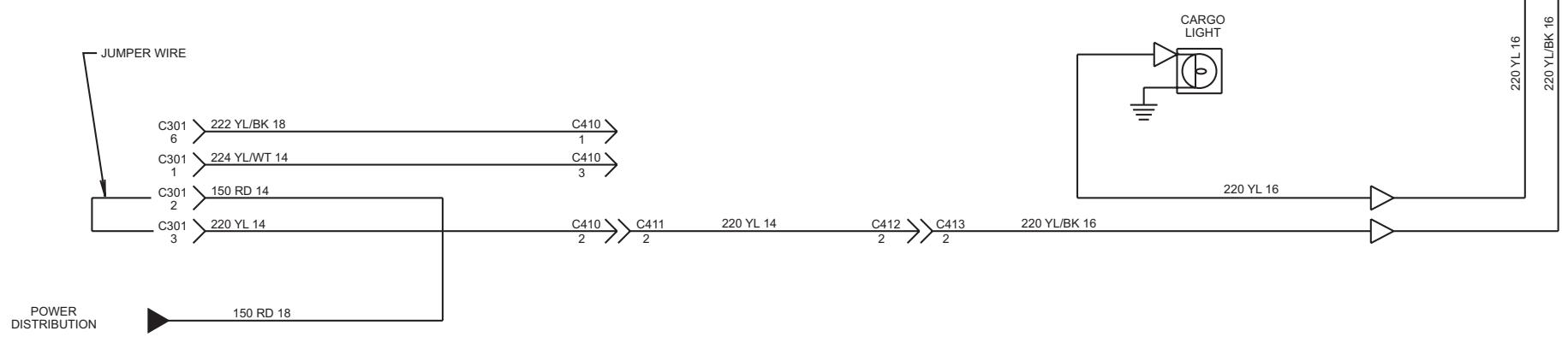
WIRE COLOR TO LOAD FUNCTION MAY VARY, BASED ON OPTIONS CHOSEN AND NUMBER OF SWITCHED OPTIONS CHOSEN.

SPECIAL REQUESTED OPTIONS MAY BE WIRED DIFFERENTLY THAN SHOWN ON THIS OR OTHER SHEETS.

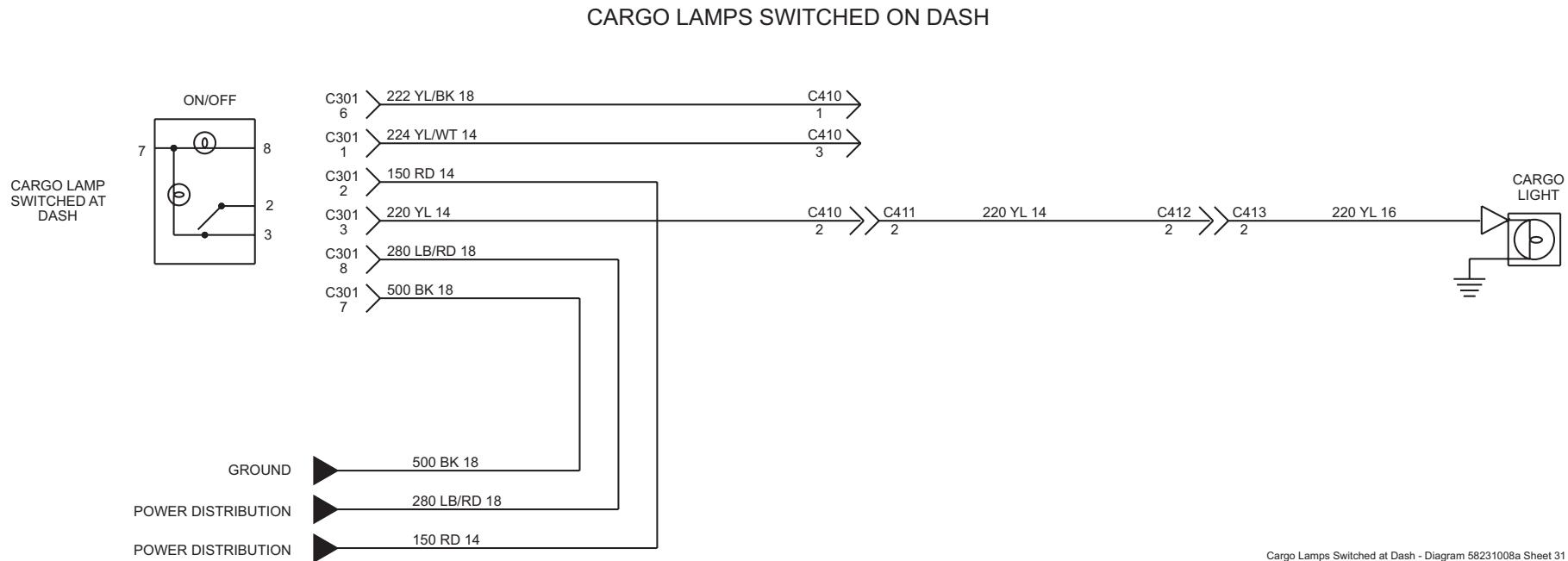
TYPICAL SWITCH USAGES:
 • ON/OFF — LIGHTING, HTD MIRRORS, POWER VENTS
 • ON/ON — 3-WAY CARGO LIGHT SWITCHING ONLY
 • ON/OFF/ON — AUX. HEATERS, DASH FANS, (2 SPEED LOADS)

7—Cargo Lamps Standard

CARGO LAMPS STANDARD WIRING

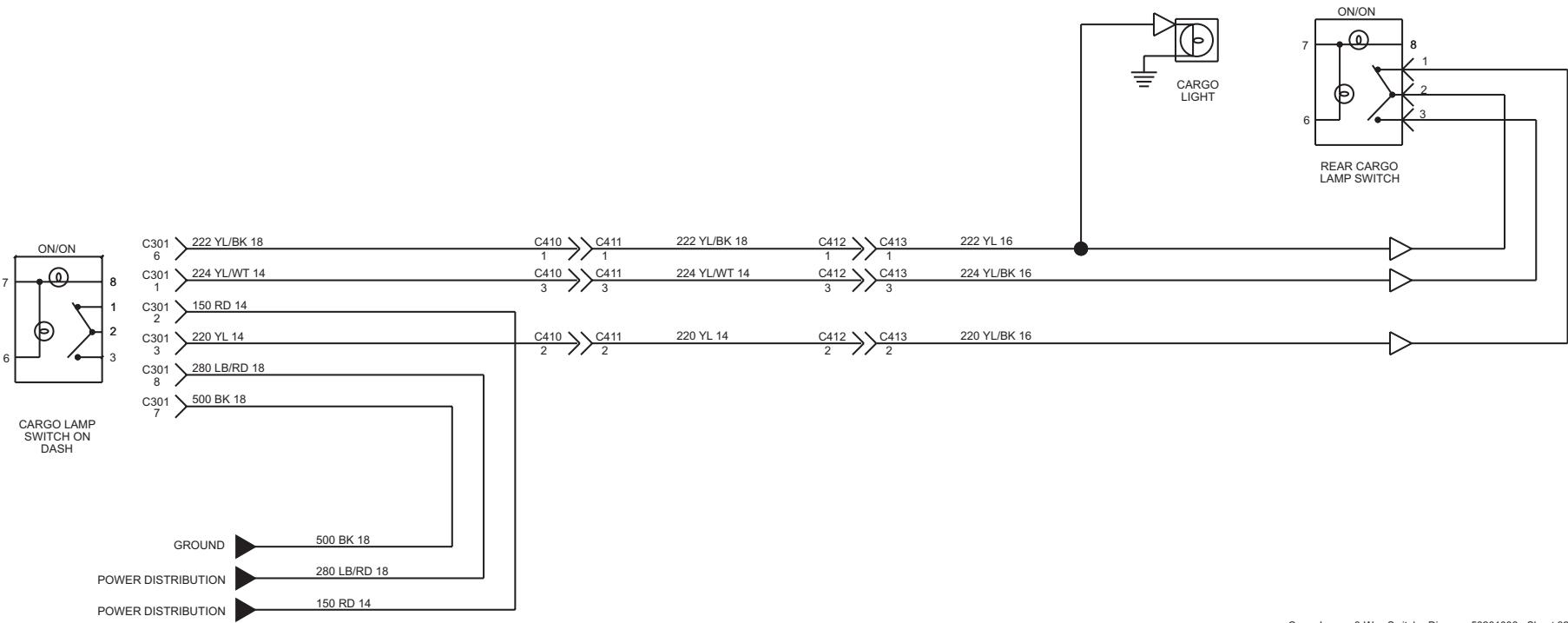


7—Cargo Lamps Switch on Dash



7—Cargo Lamps Three-Way Switch

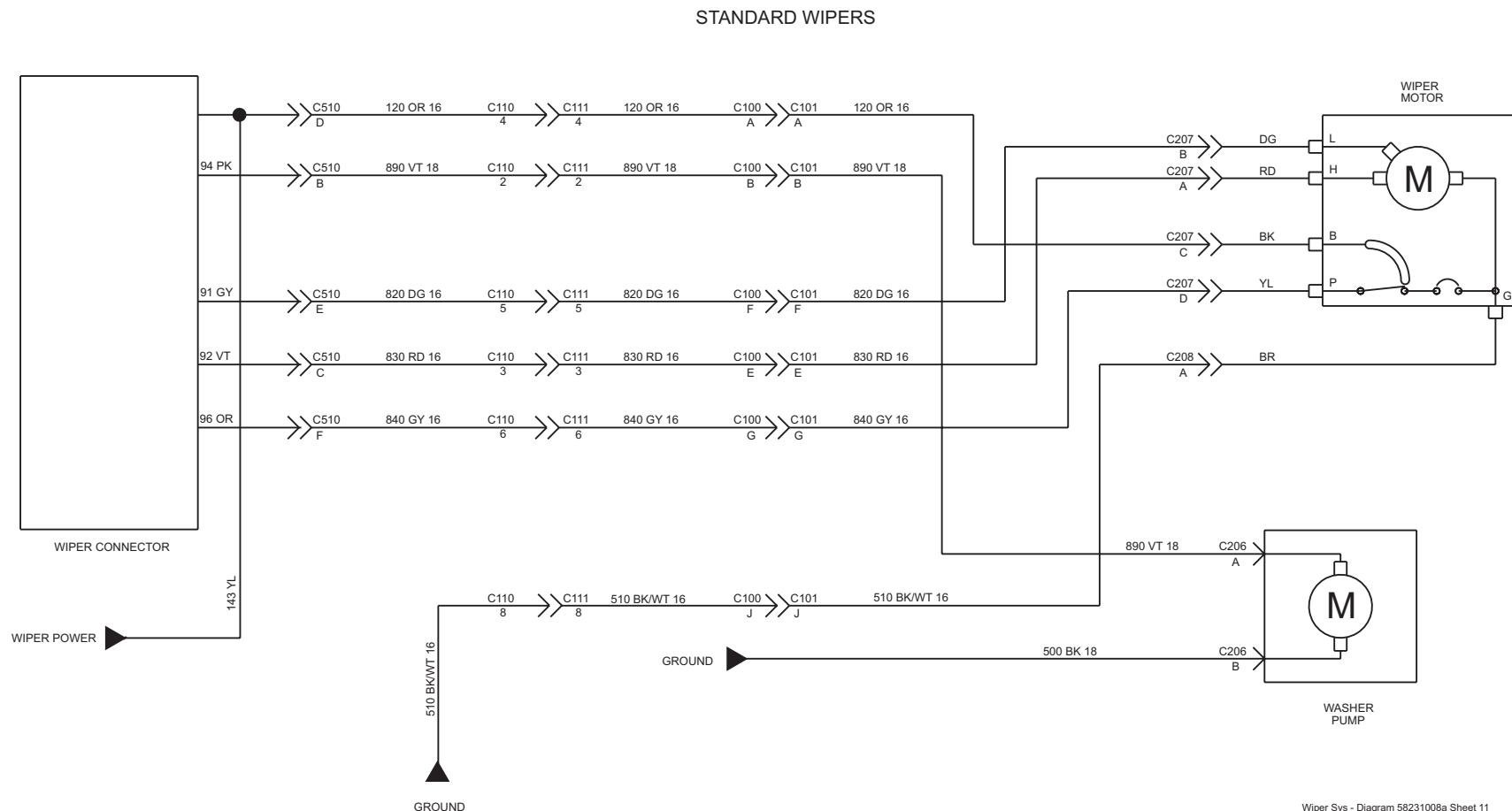
CARGO LAMPS 3-WAY SWITCH



Cargo Lamps 3-Way Switch - Diagram 58231008a Sheet 32

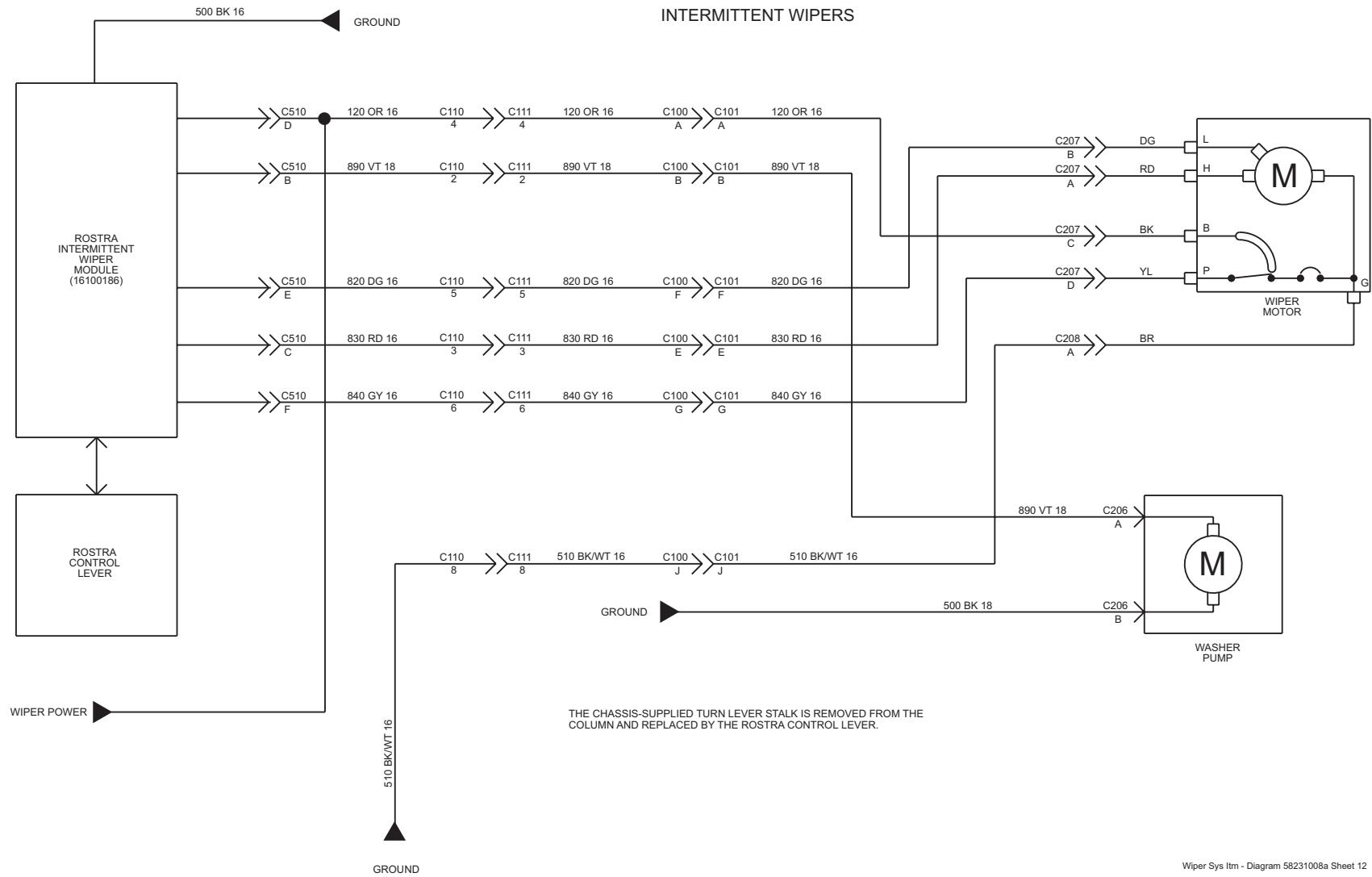
8—Wiper System

Standard and Cummins ISB4 Intermittent



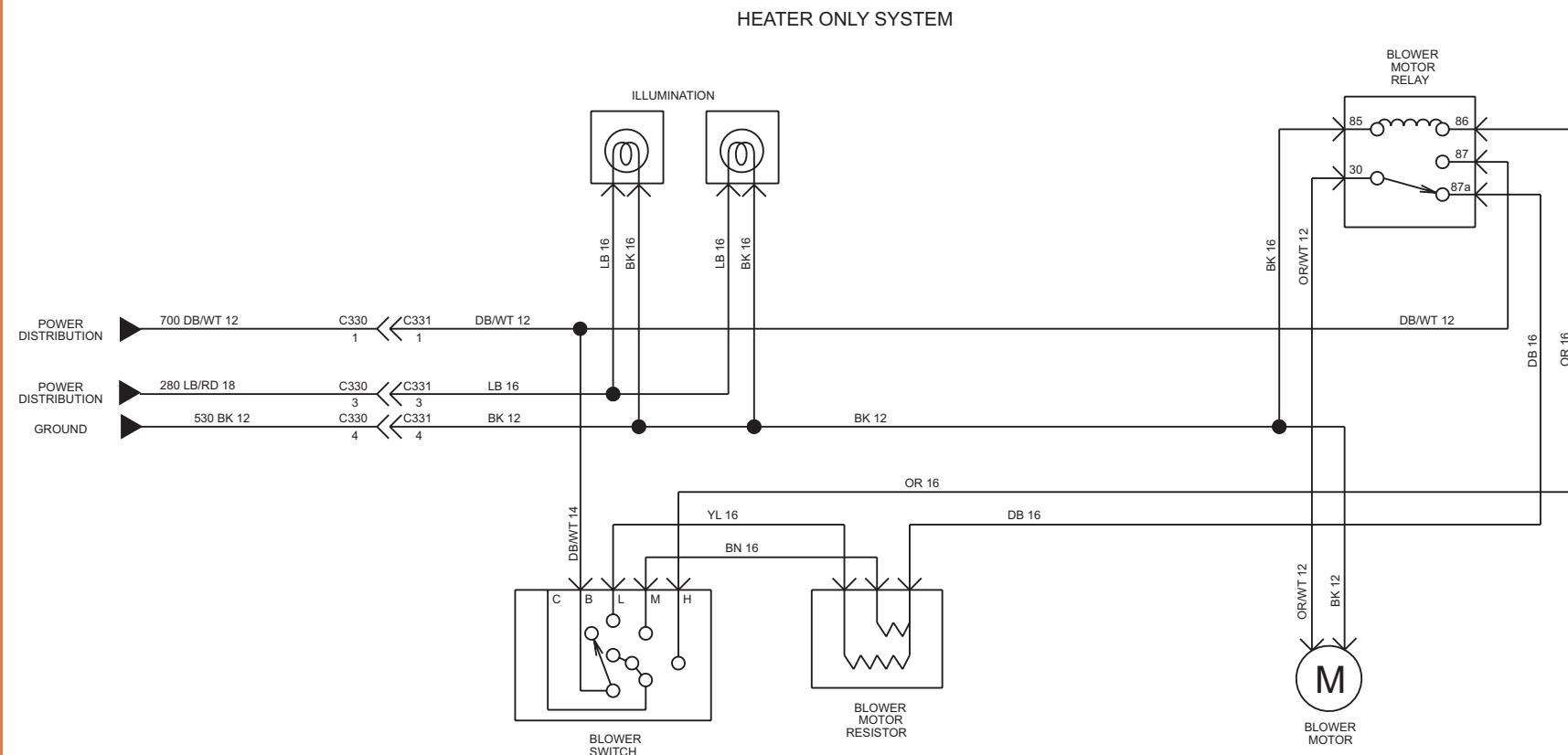
8—Wiper System

Intermittent Option (Non-Cummins ISB4)



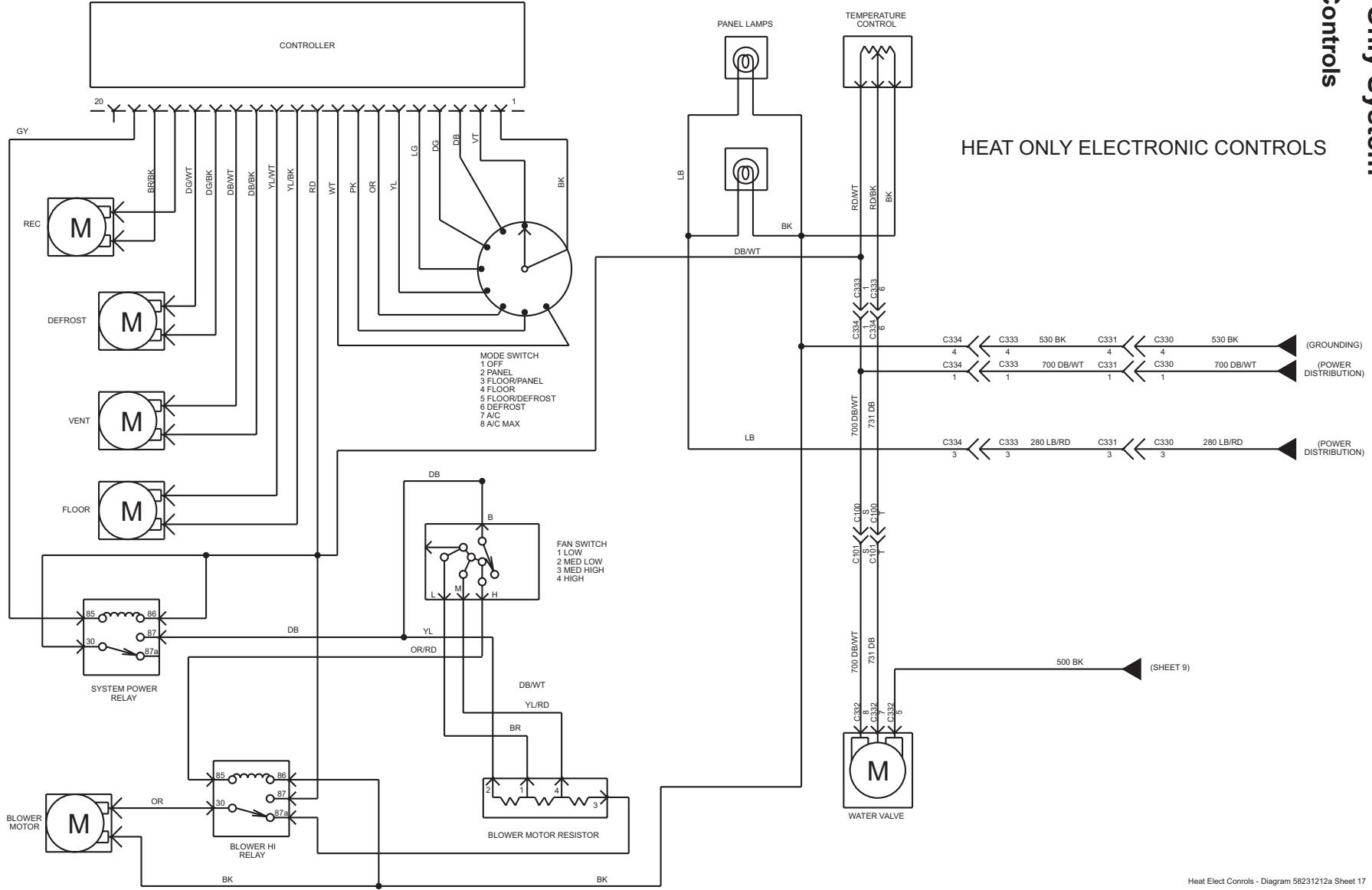
9—Heater Only System

Cable Controls



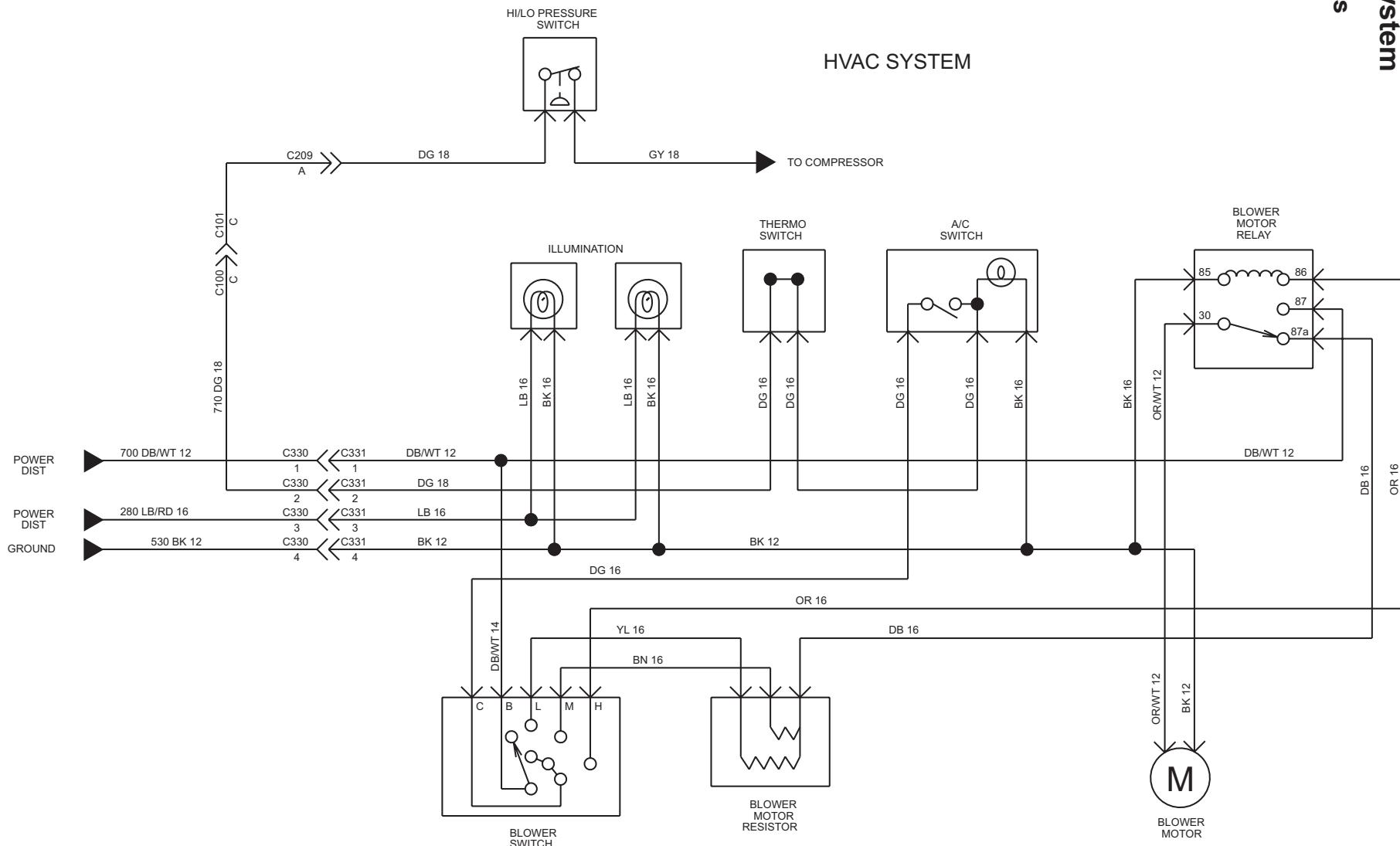
9—Heater Only System

Electronic Controls



9—HVAC System

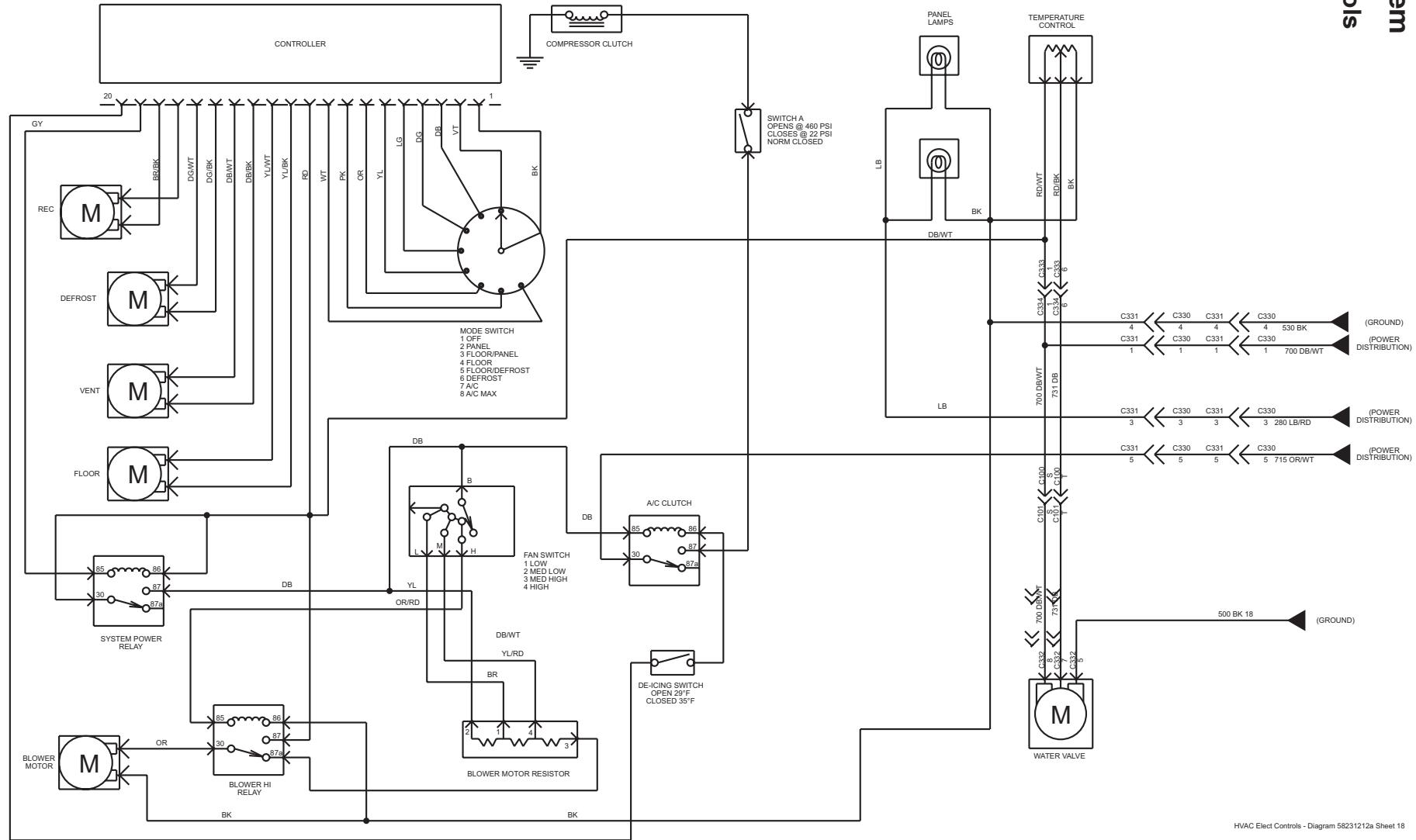
Cable Controls



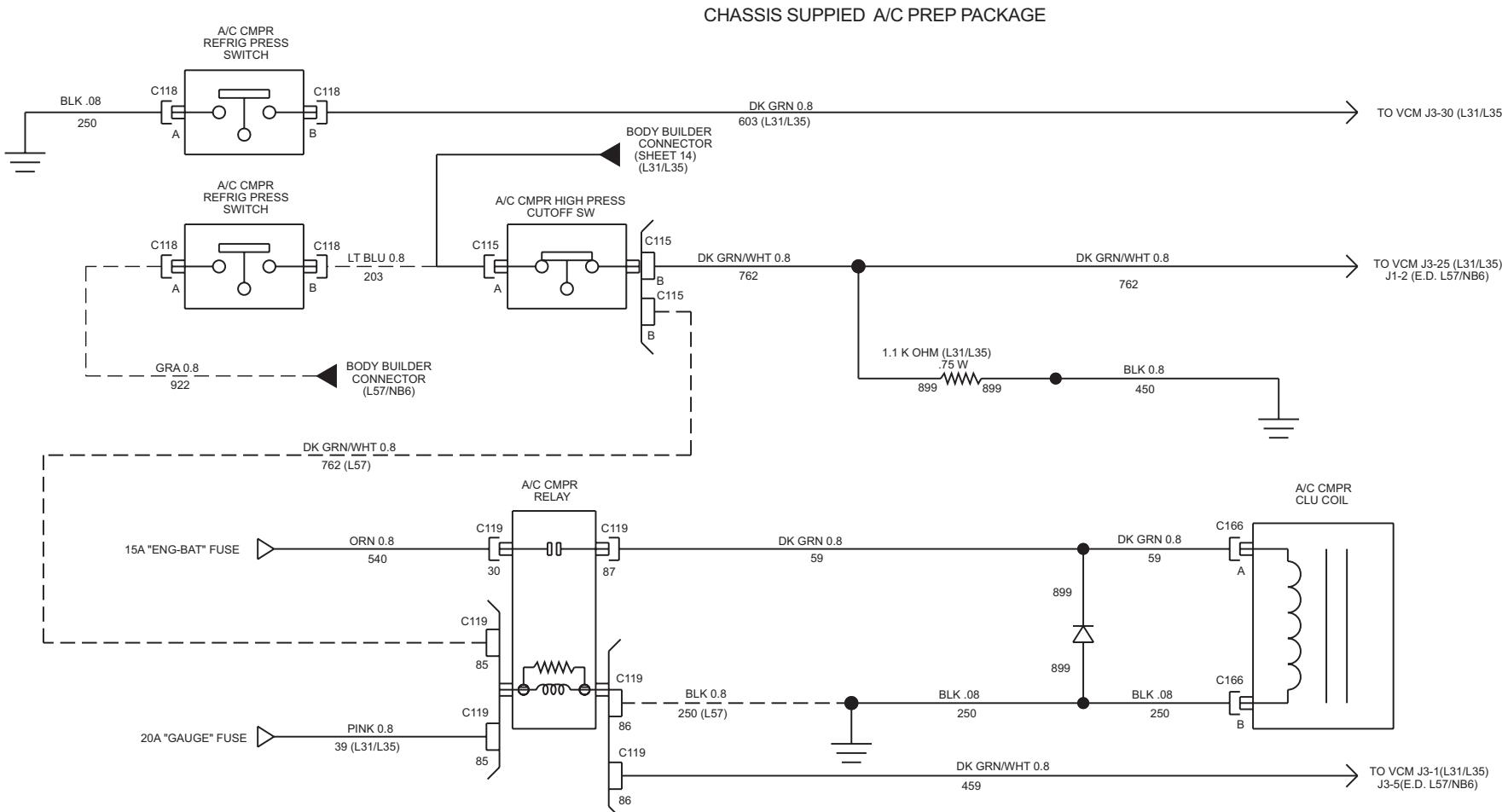
9—HVAC System

Electronic Controls

HVAC ELECTRONIC CONTROLS



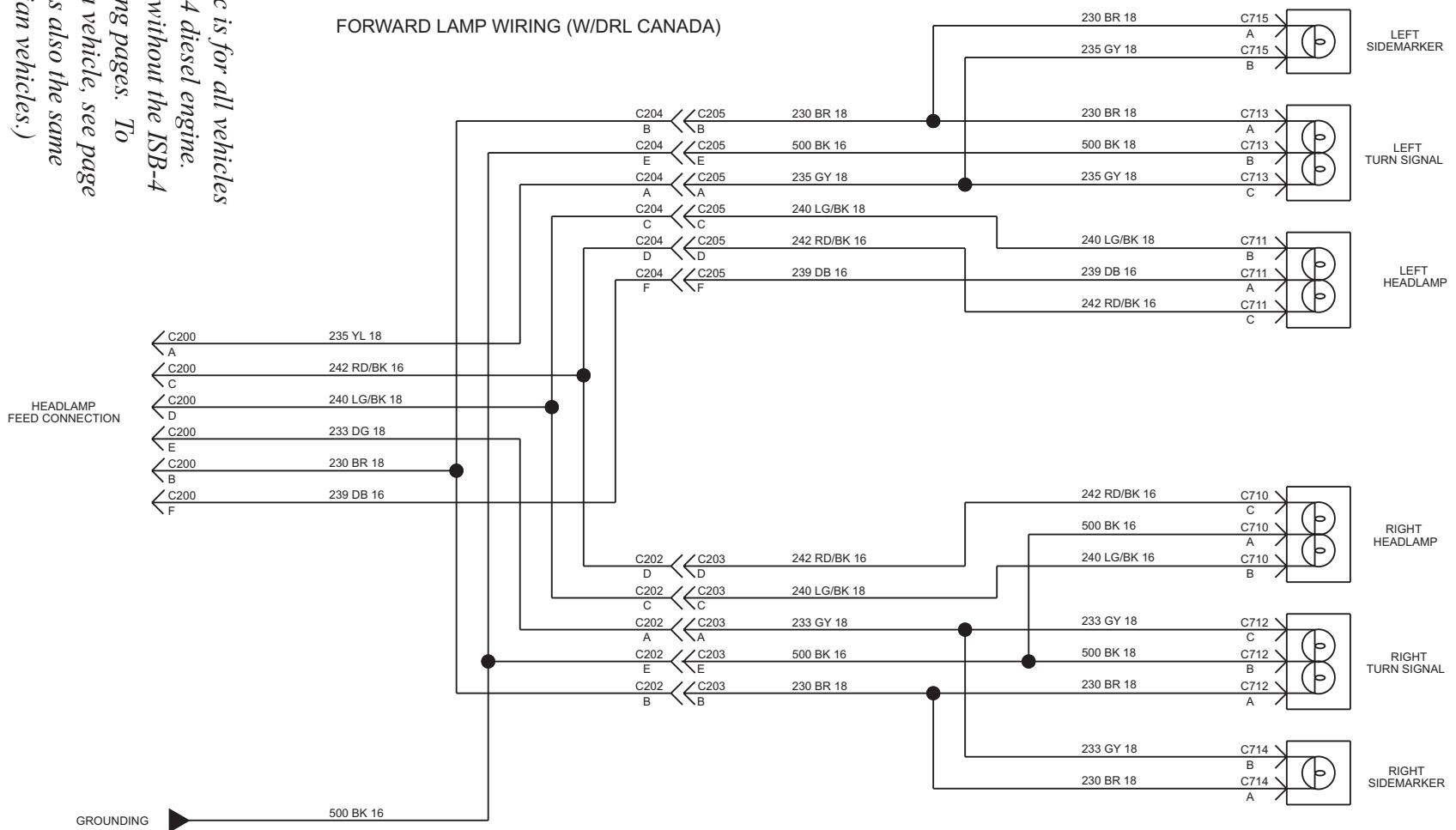
10—Chassis Supplied A/C Prep



11—Front Light Wiring

With Cummins ISB4 Diesel Engines

NOTE: This schematic is for all vehicles with the Cummins ISB4 diesel engine. For domestic vehicles without the ISB-4 engine, see the following pages. To identify the engine of a vehicle, see page 6. (This schematic is also the same one used in all Canadian vehicles.)

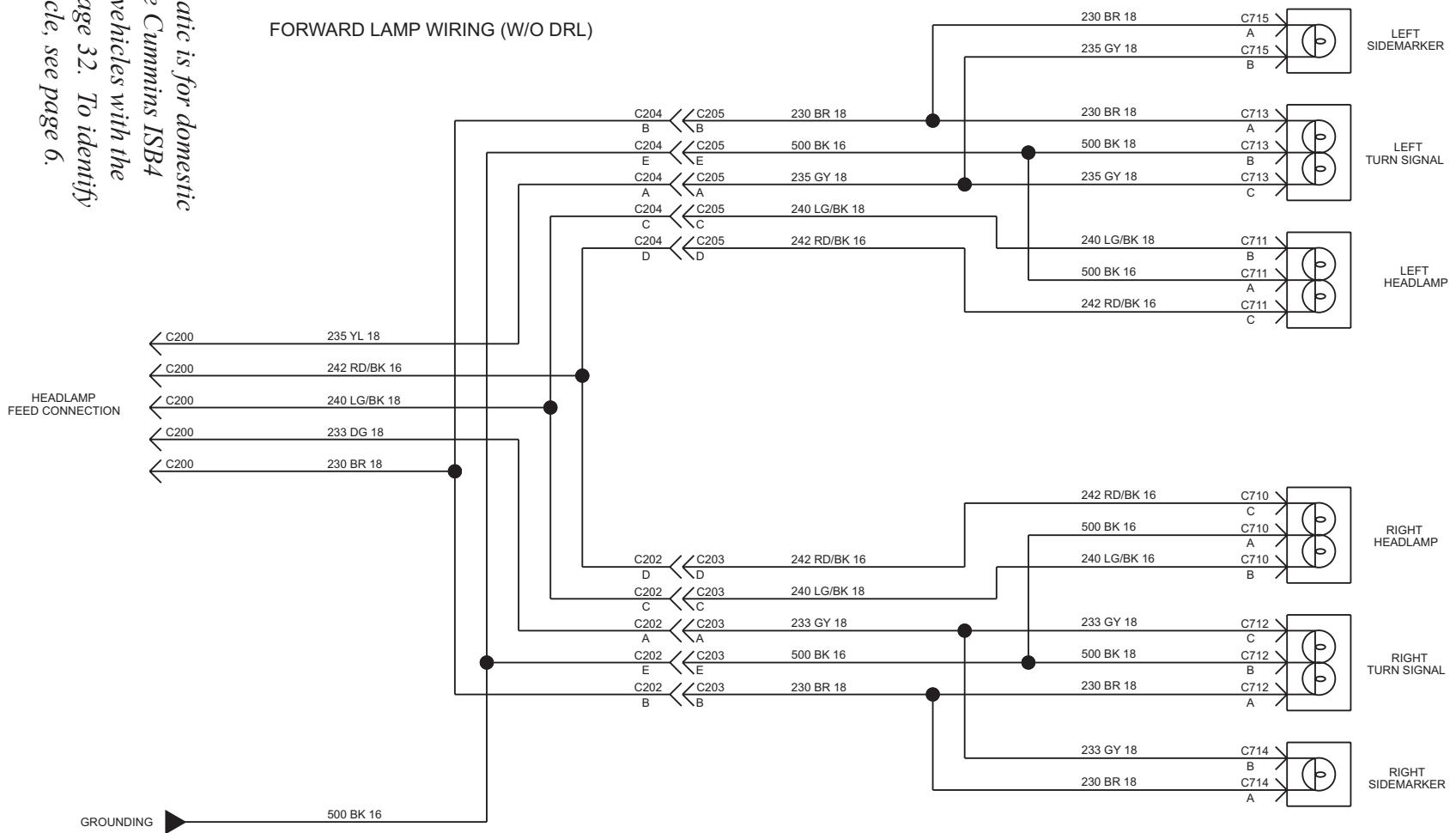


Forward Lamp Wiring (Canadian DRL) - Diagram 58231008a Sheet 17

11—Front Light Wiring

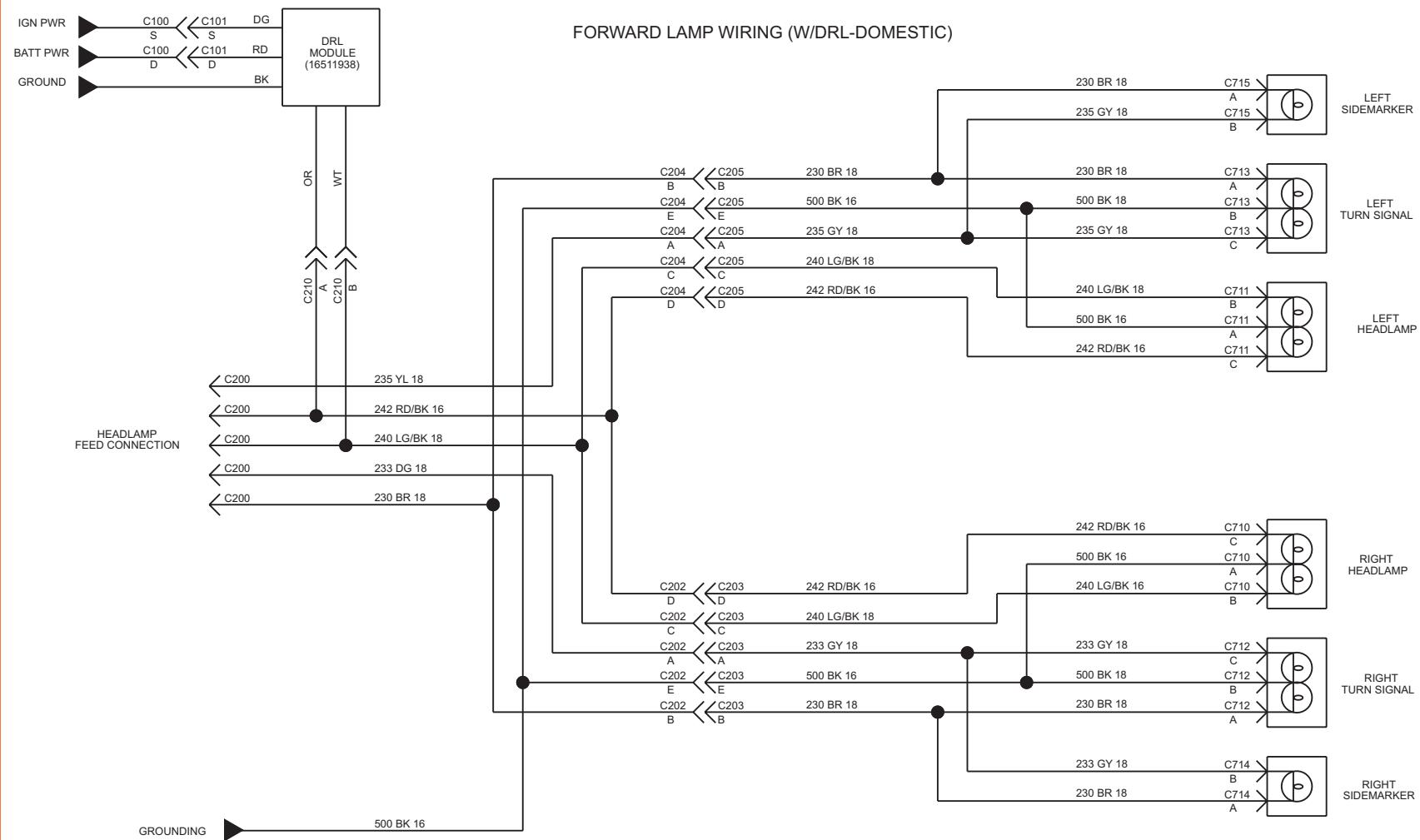
Without Daytime Running Lights

NOTE: This schematic is for domestic vehicles **without** the Cummins ISB4 diesel engine. For vehicles with the ISB-4 engine, see page 32. To identify the engine of a vehicle, see page 6.



Daytime Running Lights (Domestic) — Forward Light Wiring

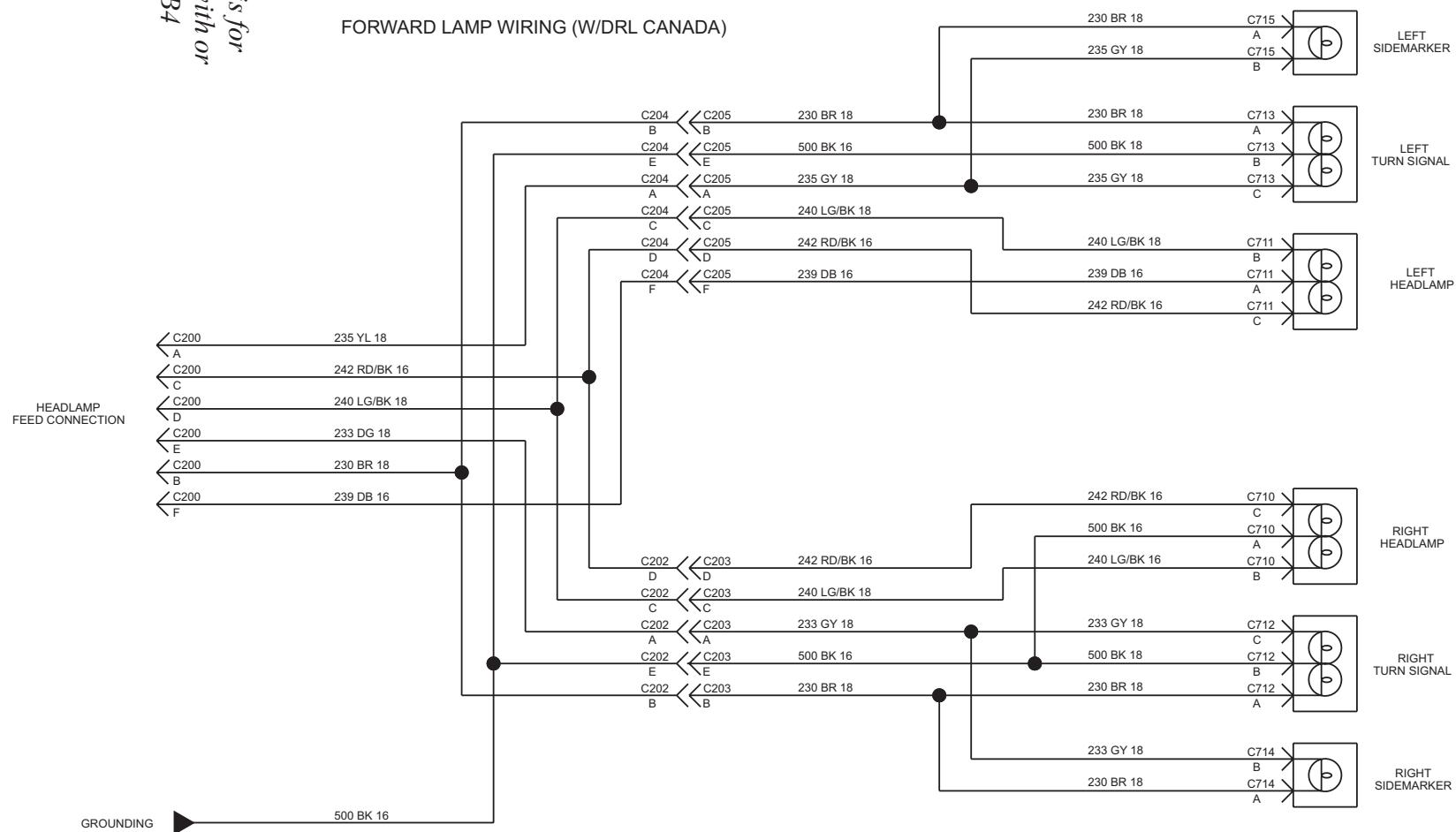
NOTE. This schematic is for domestic vehicles **without** the Cummins ISB4 diesel engine. For vehicles with the ISB-4 engine, see page 32. To identify the engine of a vehicle, see page 6.



11—Forward Light Wiring

Daytime Running Lights (Canadian)

NOTE: This schematic is for all Canadian vehicles (with or without the Cummins ISB4 diesel engine).



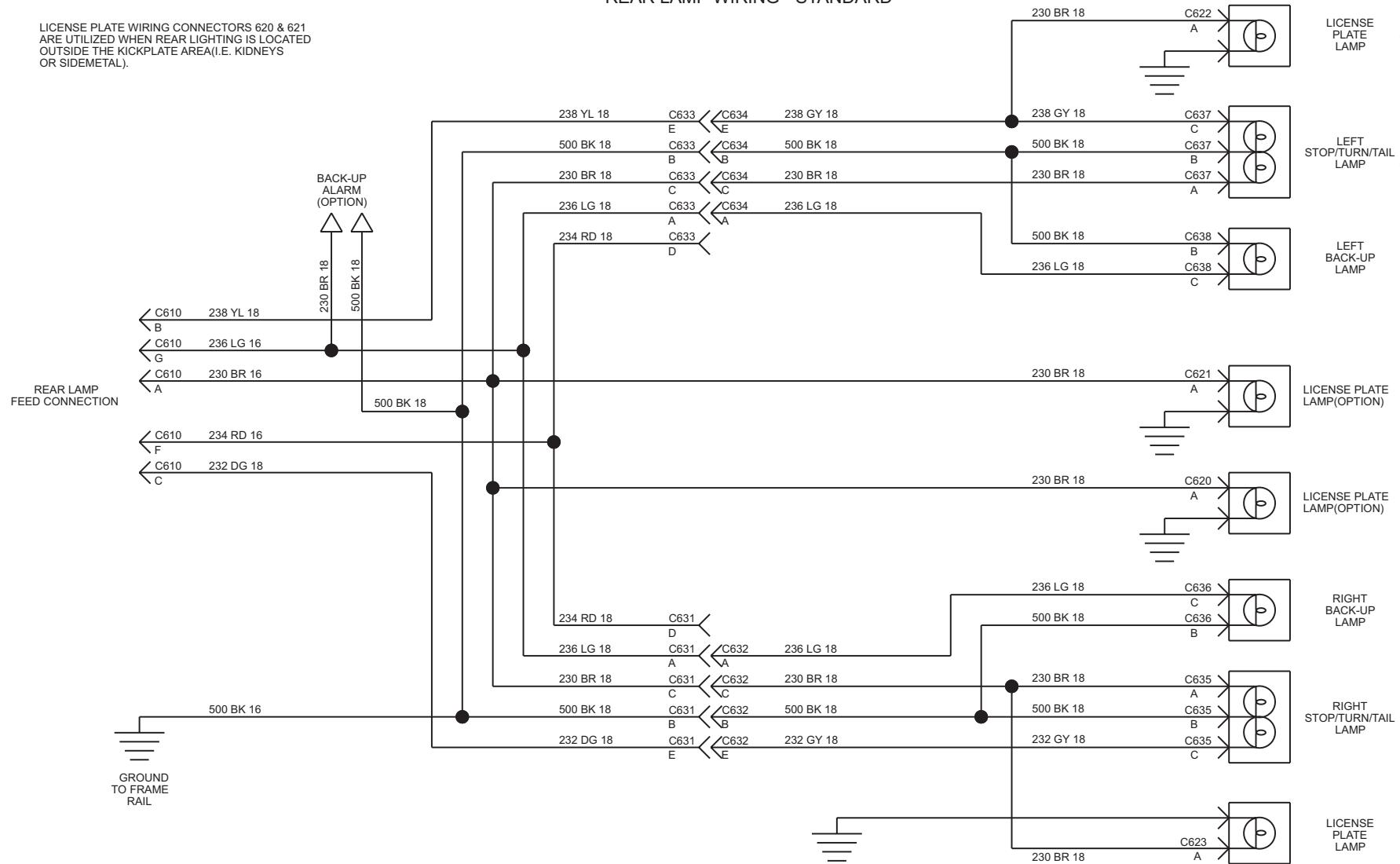
Forward Lamp Wiring (Canadian DRL) - Diagram 58231008a Sheet 17

12—Rear Light Wiring

Standard

LICENSE PLATE WIRING CONNECTORS 620 & 621 ARE UTILIZED WHEN REAR LIGHTING IS LOCATED OUTSIDE THE KICKPLATE AREA(I.E. KIDNEYS OR SIDEMETAL).

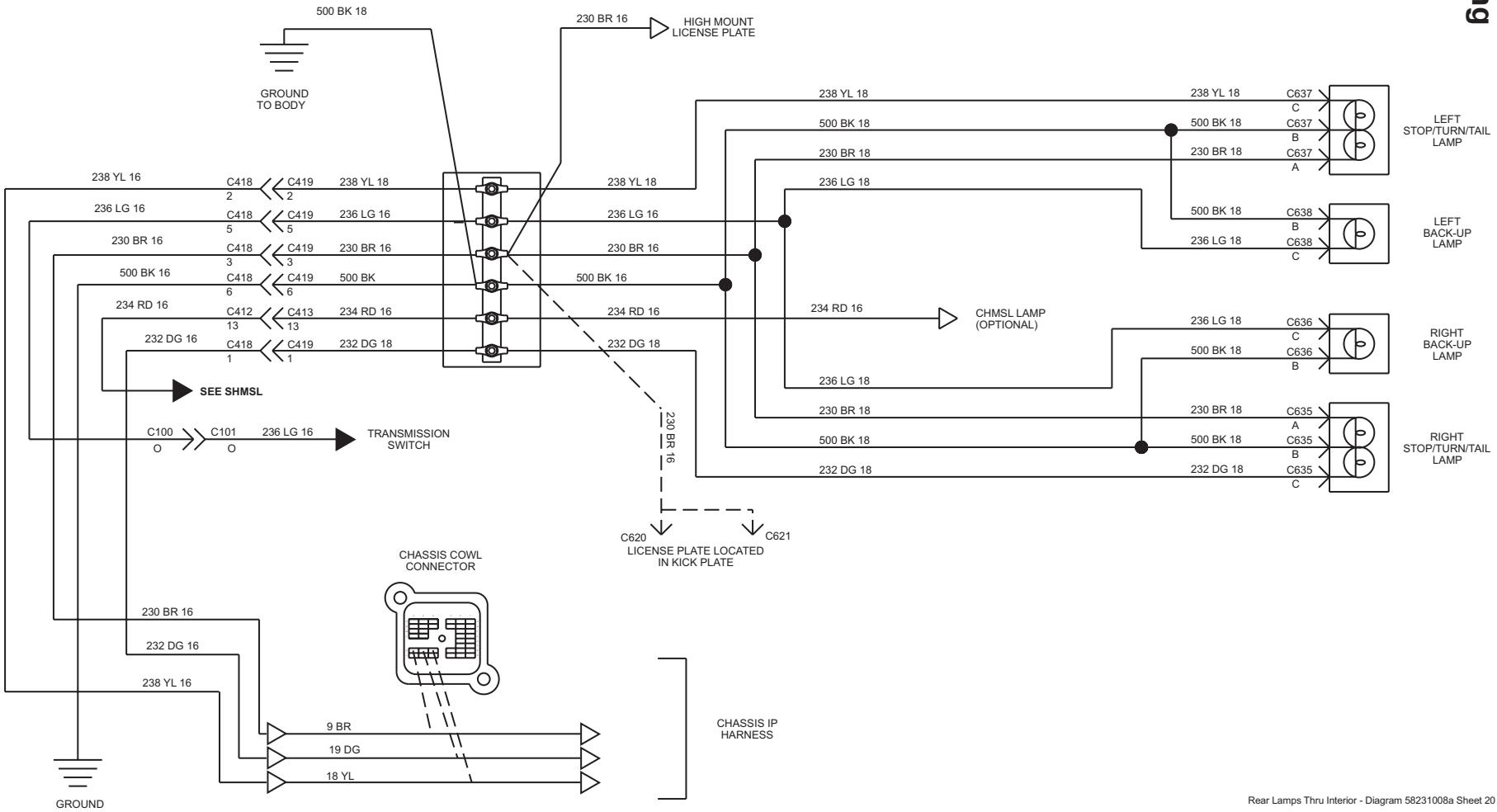
REAR LAMP WIRING - STANDARD



12—Rear Light Wiring

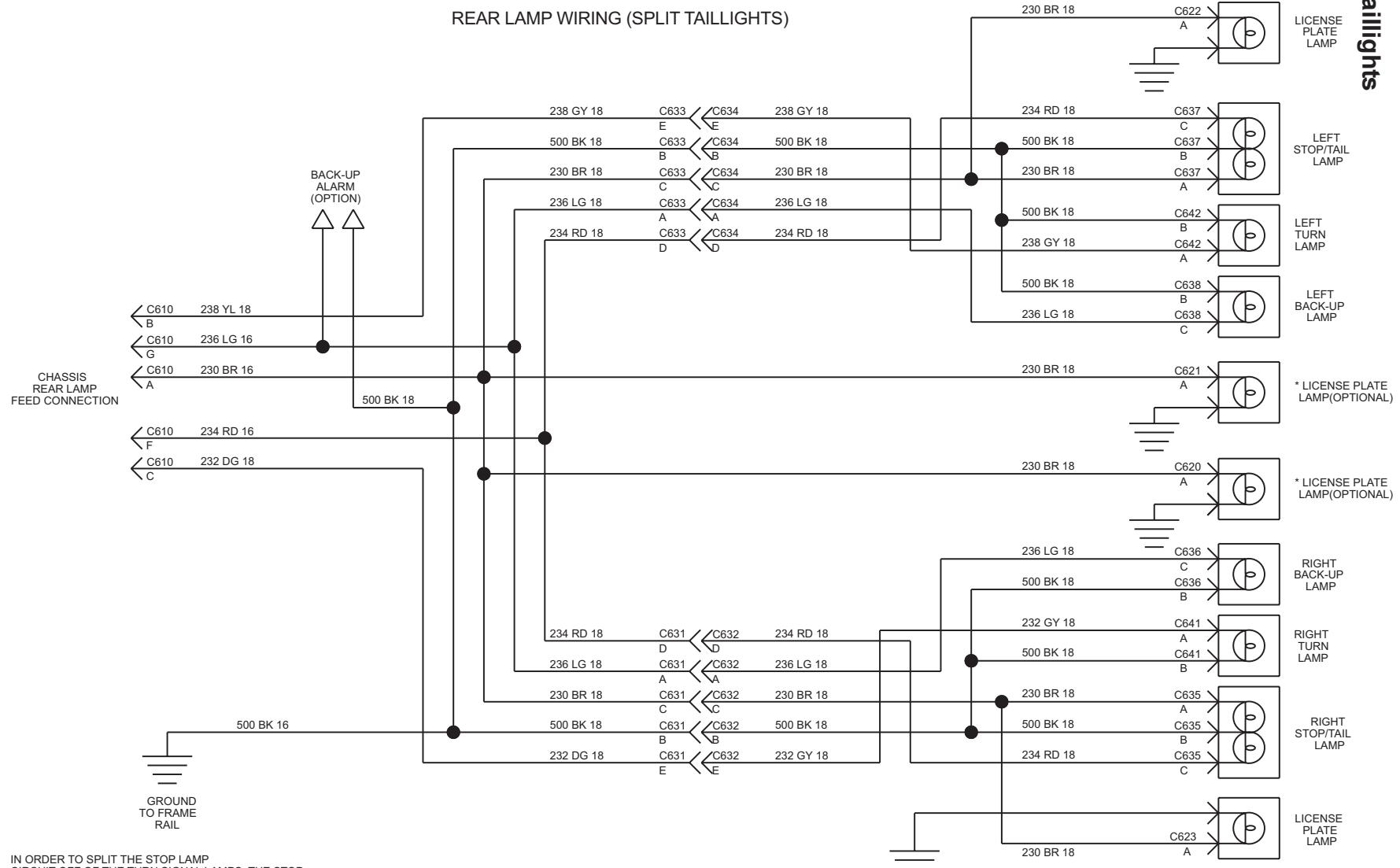
Routed through Interior

REAR LAMP WIRING (ROUTED THROUGH INTERIOR)



12—Rear Light Wiring

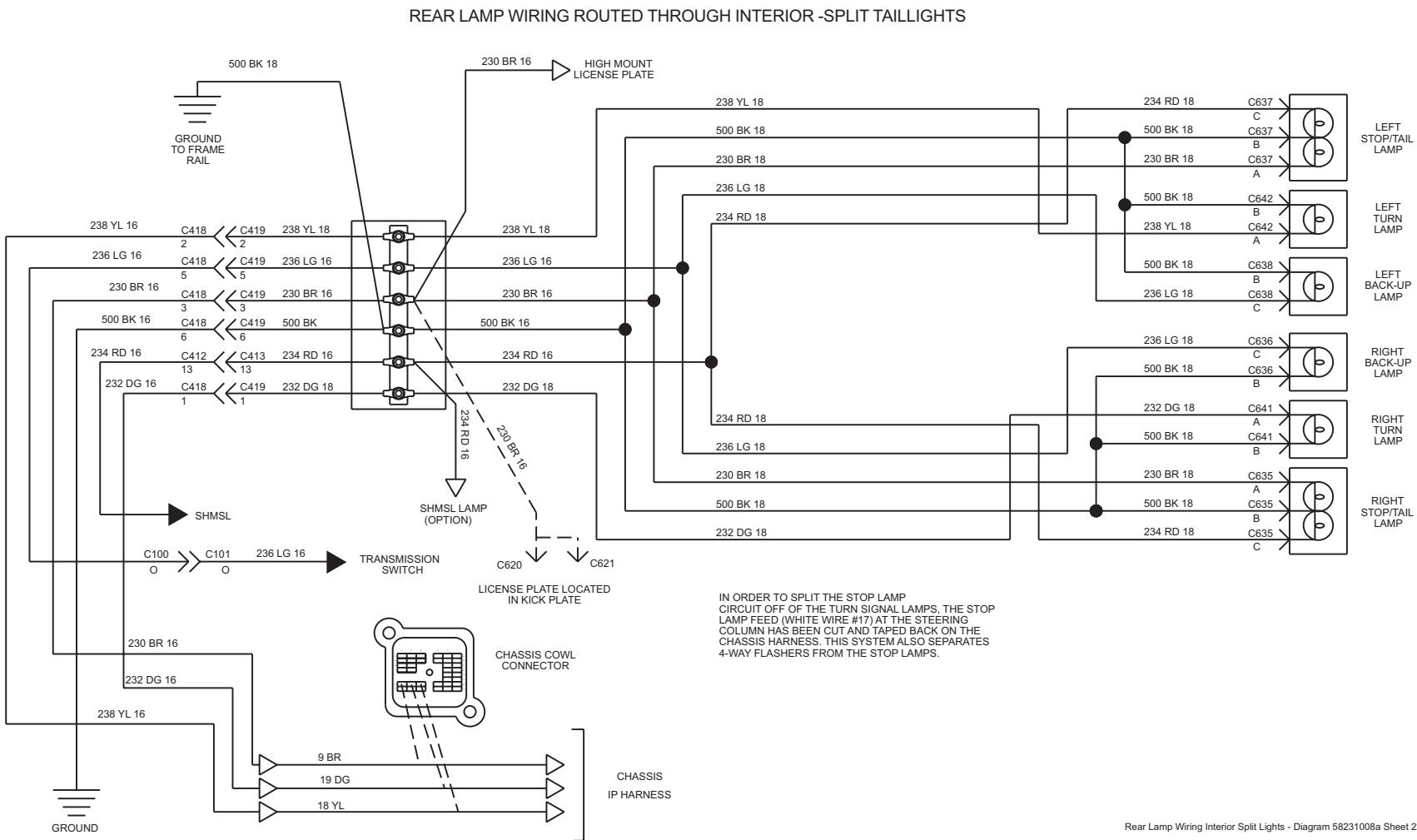
Split Tailights



IN ORDER TO SPLIT THE STOP LAMP CIRCUIT OFF OF THE TURN SIGNAL LAMPS, THE STOP LAMP FEED (WHITE WIRE #17) AT THE STEERING COLUMN HAS BEEN CUT AND TAPE BACK ON THE CHASSIS HARNESS. THIS SYSTEM ALSO SEPARATES 4-WAY FLASHERS FROM THE STOP LAMPS.

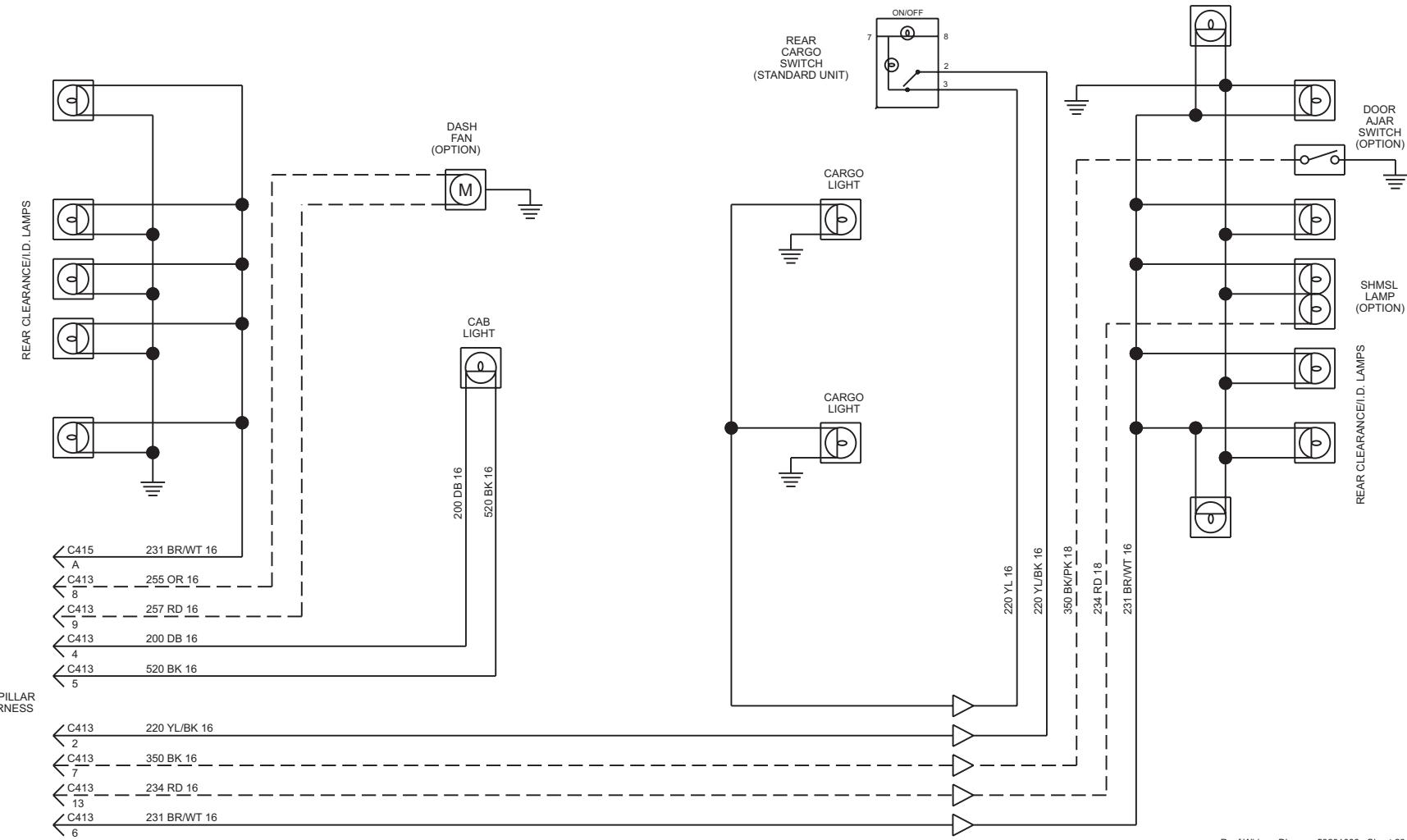
LICENSE PLATE WIRING CONNECTORS 620 & 621 ARE UTILIZED WHEN REAR LIGHTING IS LOCATED OUTSIDE THE KICKPLATE AREA (I.E., KIDNEYS OR SIDEMETAL).

12—Rear Light Wiring

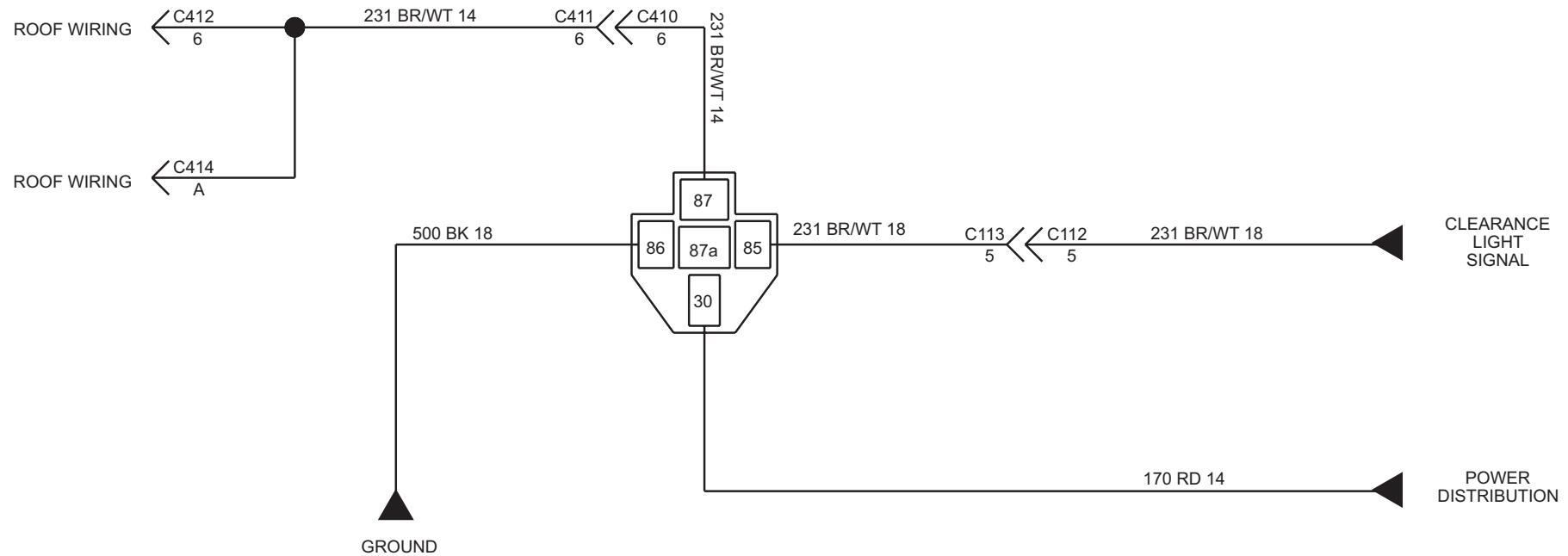


13—Roof Wiring

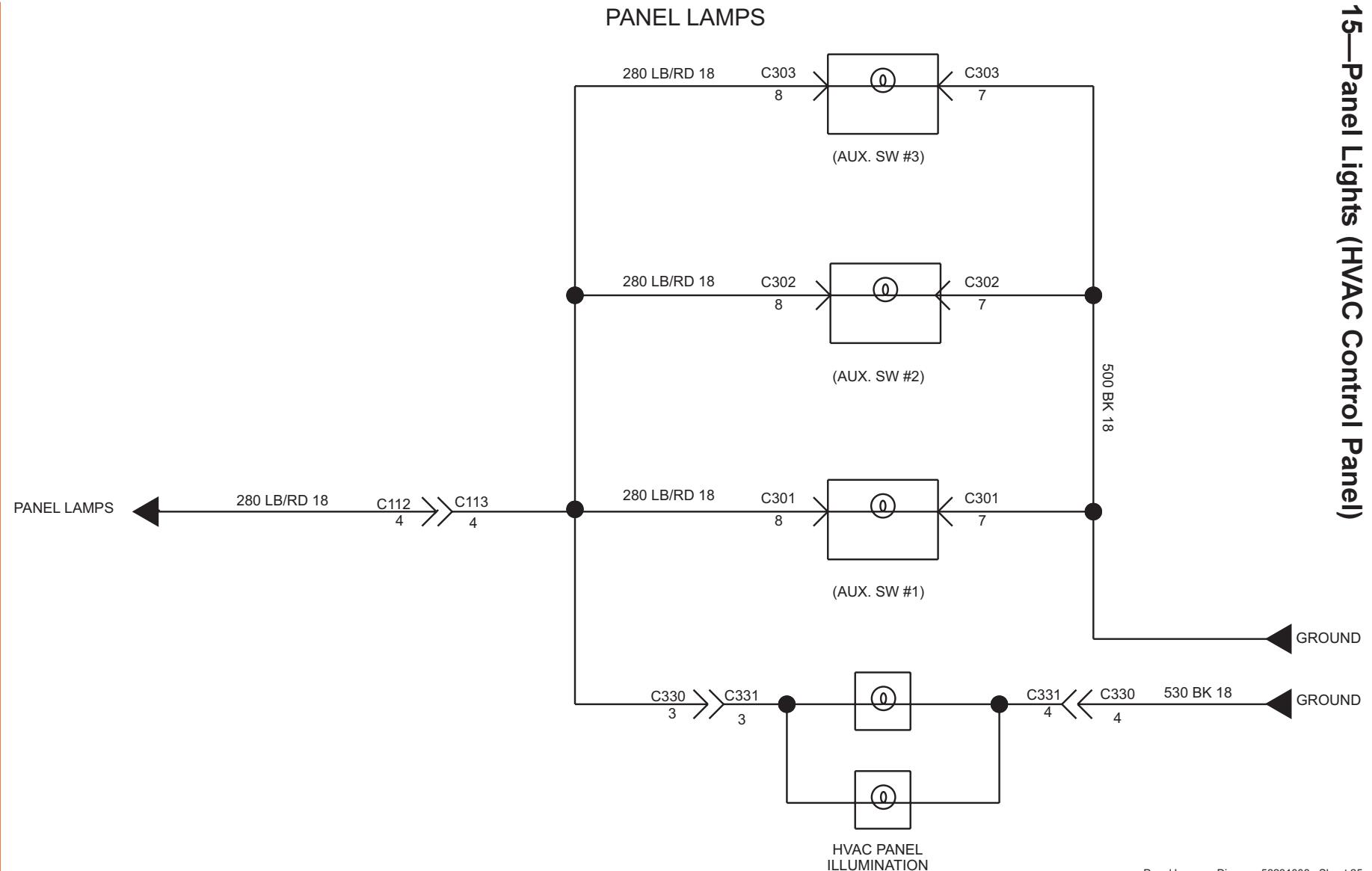
TYPICAL ROOF WIRING



CLEARANCE LIGHTS

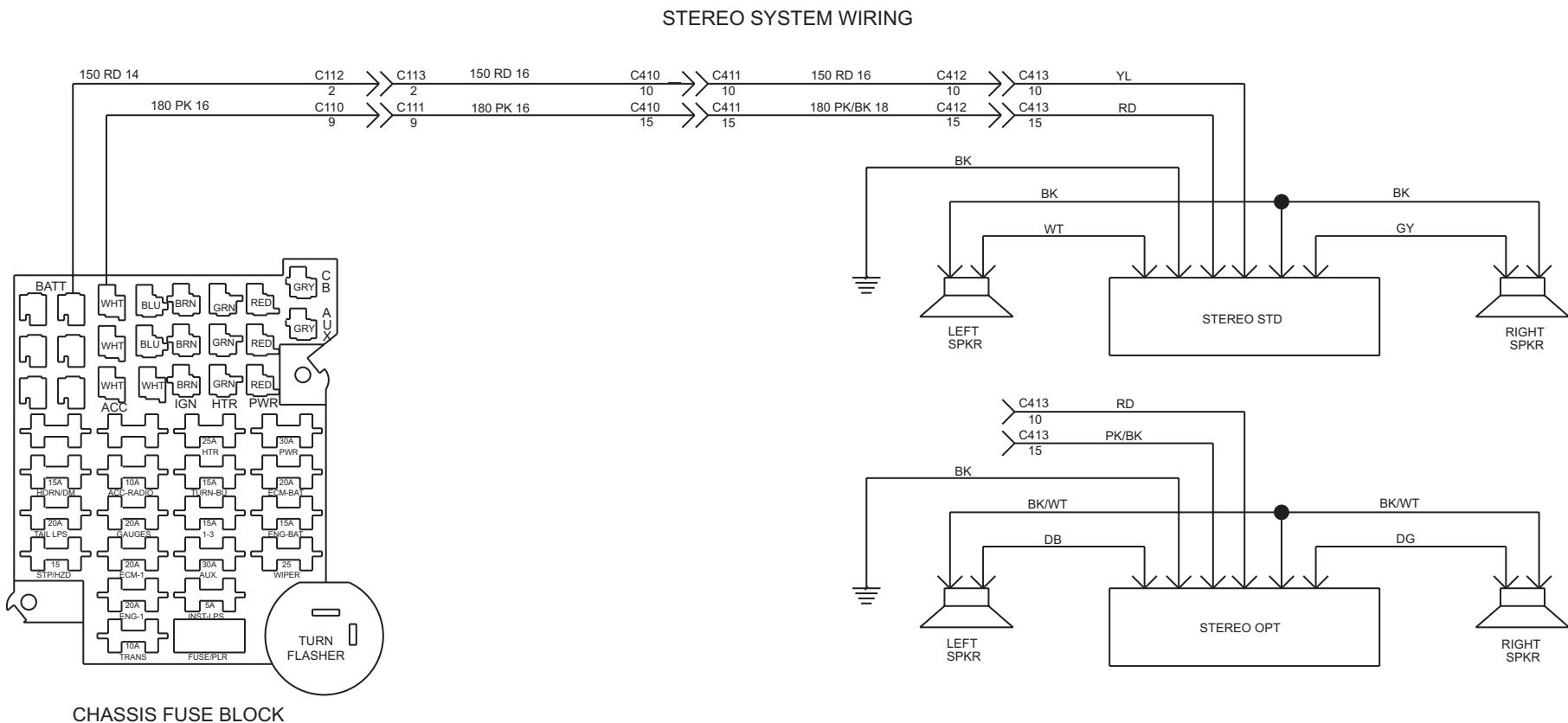


15—Panel Lights (HVAC Control Panel)



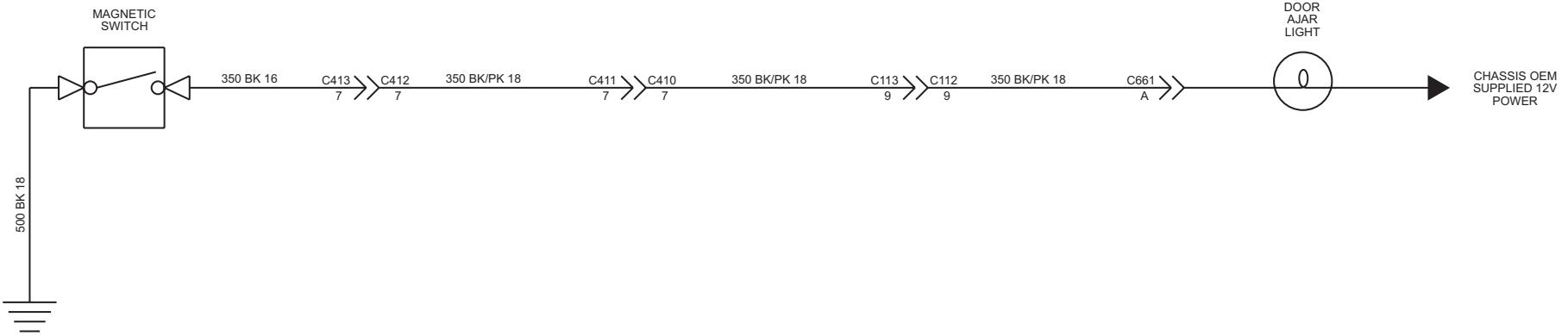
Panel Lamps - Diagram 58231008a Sheet 25

16—Stereo System



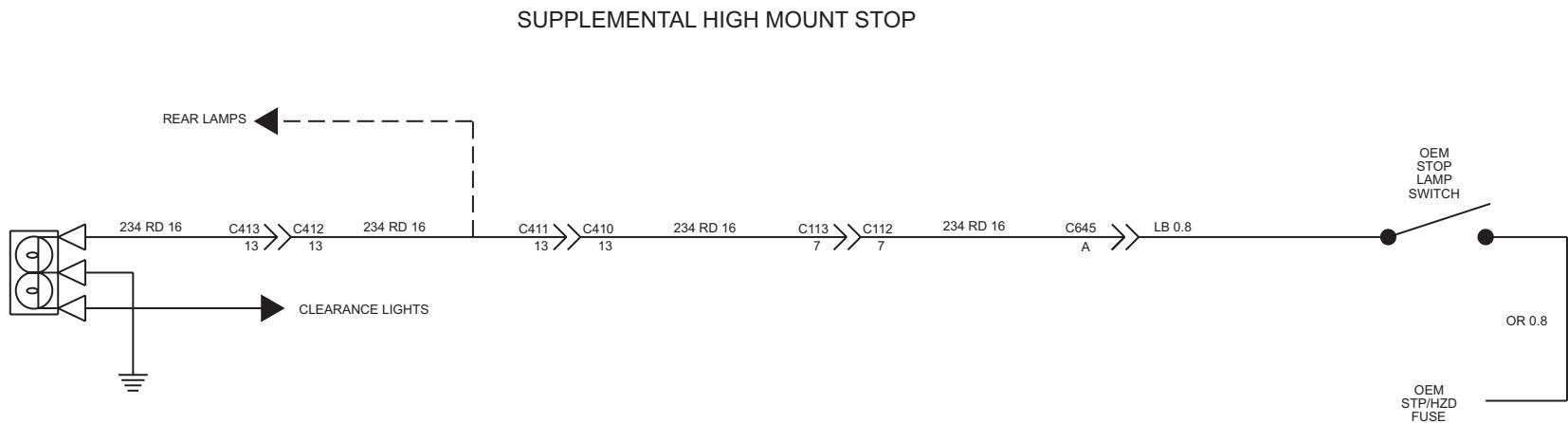
17—Door Ajar System

DOOR AJAR

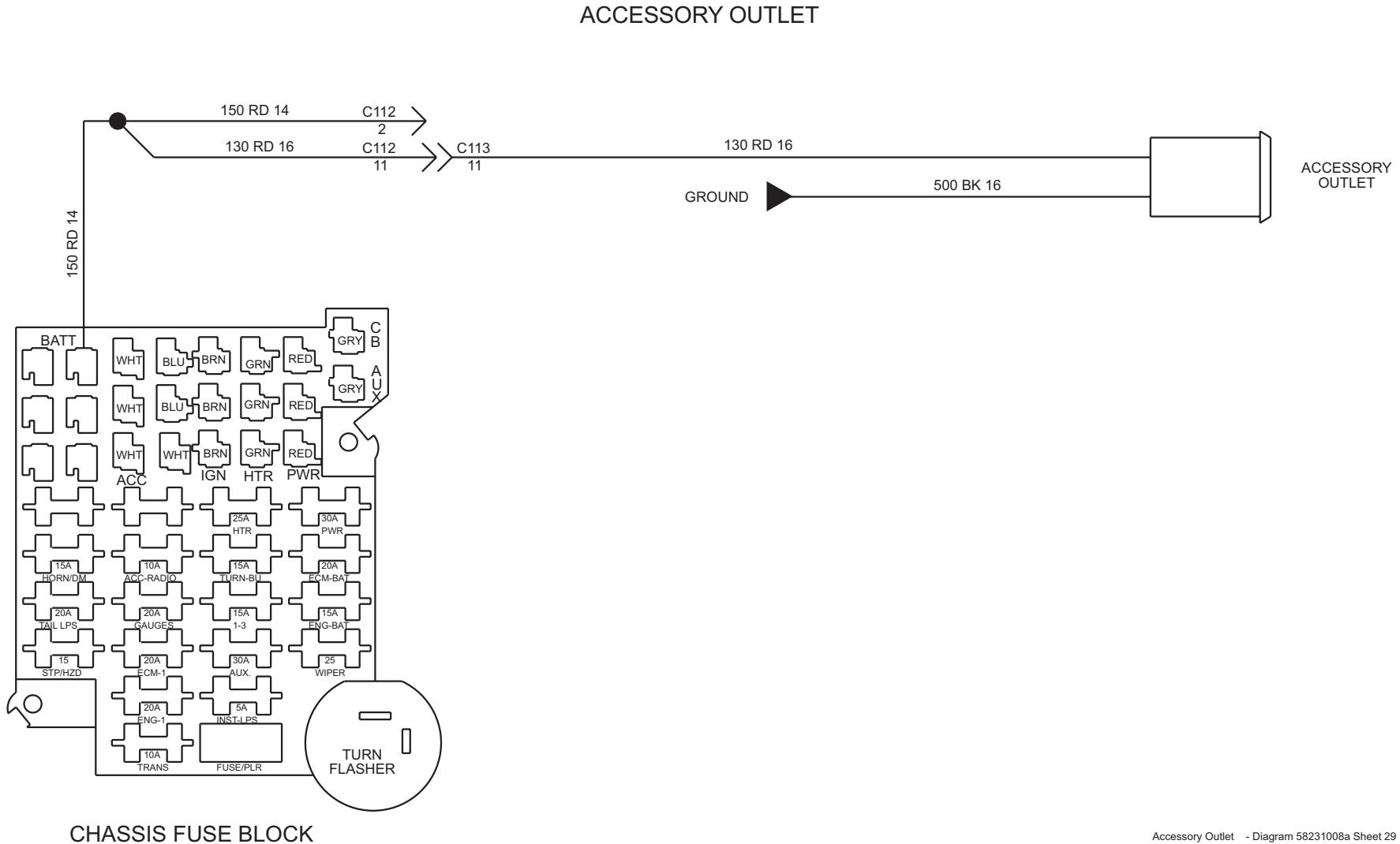


Door Ajar - Diagram 58231008a Sheet 27

18—Supplemental High Mount Stop Lamp (SHMSL)

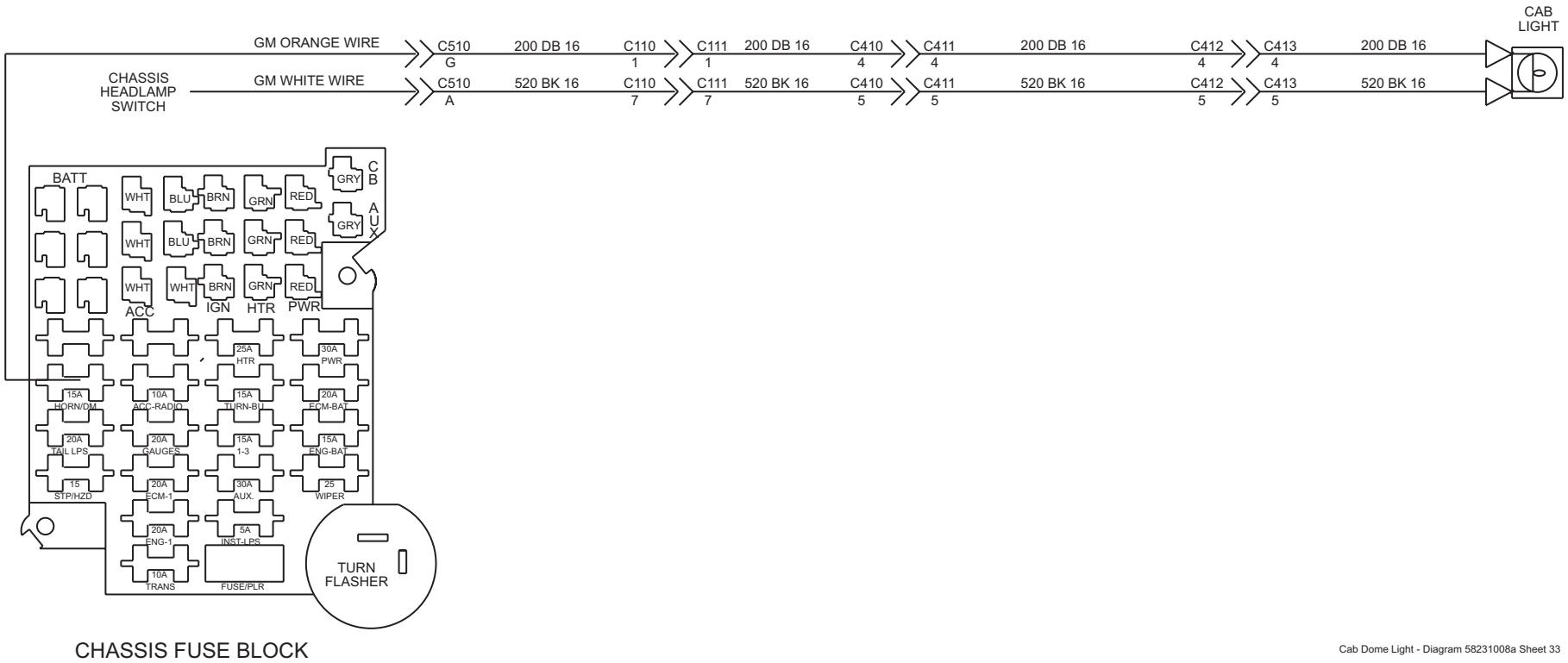


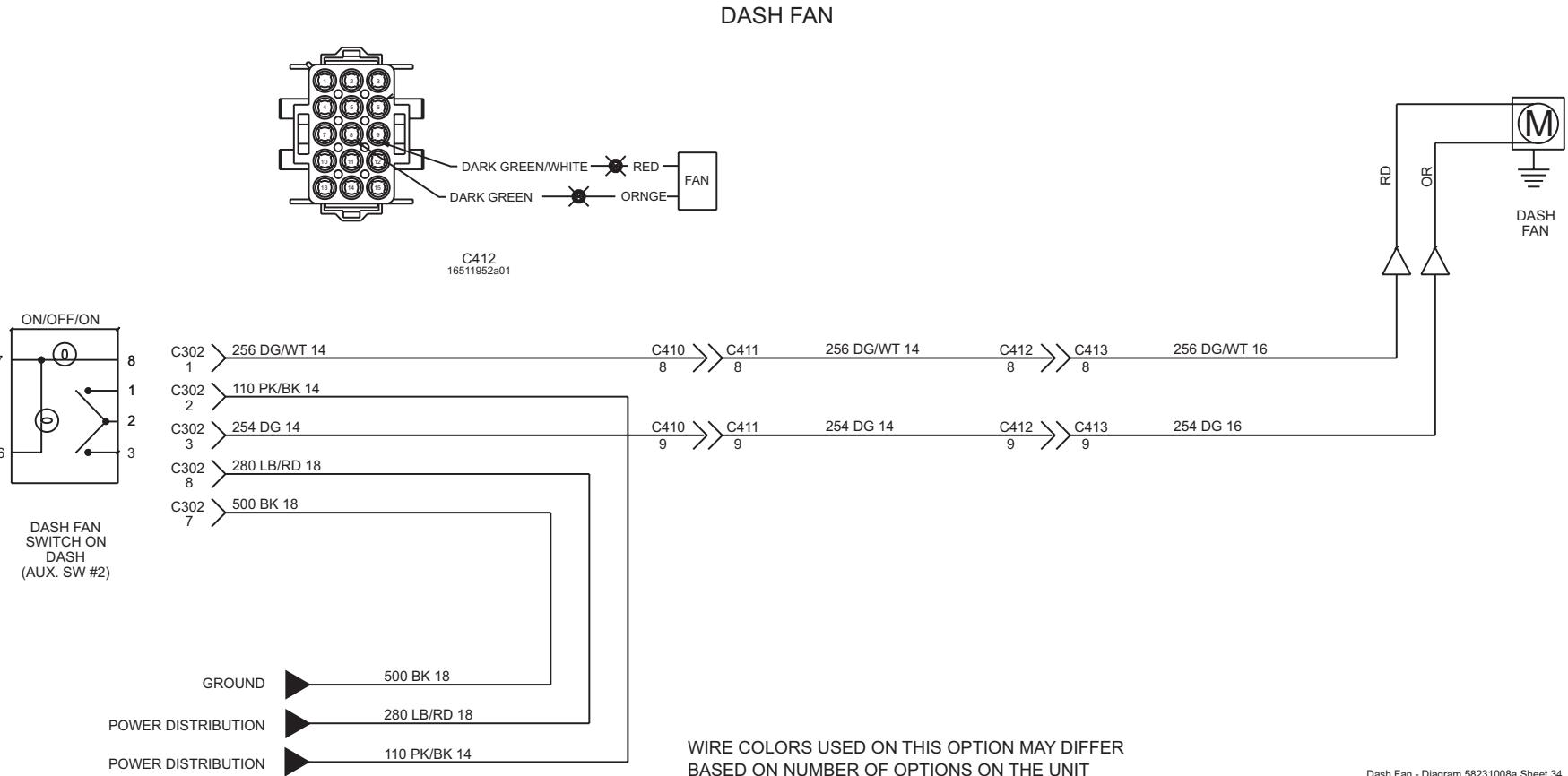
19—Accessory Outlet (Cigarette Lighter)

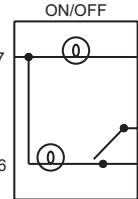


20—Cab Dome Light

CAB DOME LAMP





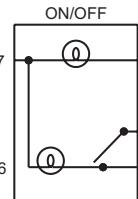


POWER VENT
SWITCH ON
DASH
(AUX. SW #3)

C303 258 LB/WT 14
C303 150 RD 14
C303 257 LB 14
C303 280 LB/RD 18
C303 500 BK 18

SECONDARY SWITCH

GROUND 500 BK 18
POWER DISTRIBUTION 280 LB/RD 18
POWER DISTRIBUTION 150 RD 14



POWER VENT
SWITCH ON
DASH
(AUX. SW #2)

C302 256 DG/WT 14
C302 110 PK/BK 14
C302 254 DG 14
C302 280 LB/RD 18
C302 500 BK 18

PRIMARY SWITCH

GROUND 500 BK 18
POWER DISTRIBUTION 280 LB/RD 18
POWER DISTRIBUTION 110 PK/BK 14

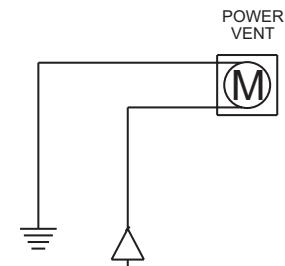
POWER VENT

C410 12 → C411 12 258 LB/WT 14 C412 12 →

C410 11 → C411 11 257 LB 14 C412 11 →

C410 8 → C411 8 256 DG/WT 14 C412 8 →

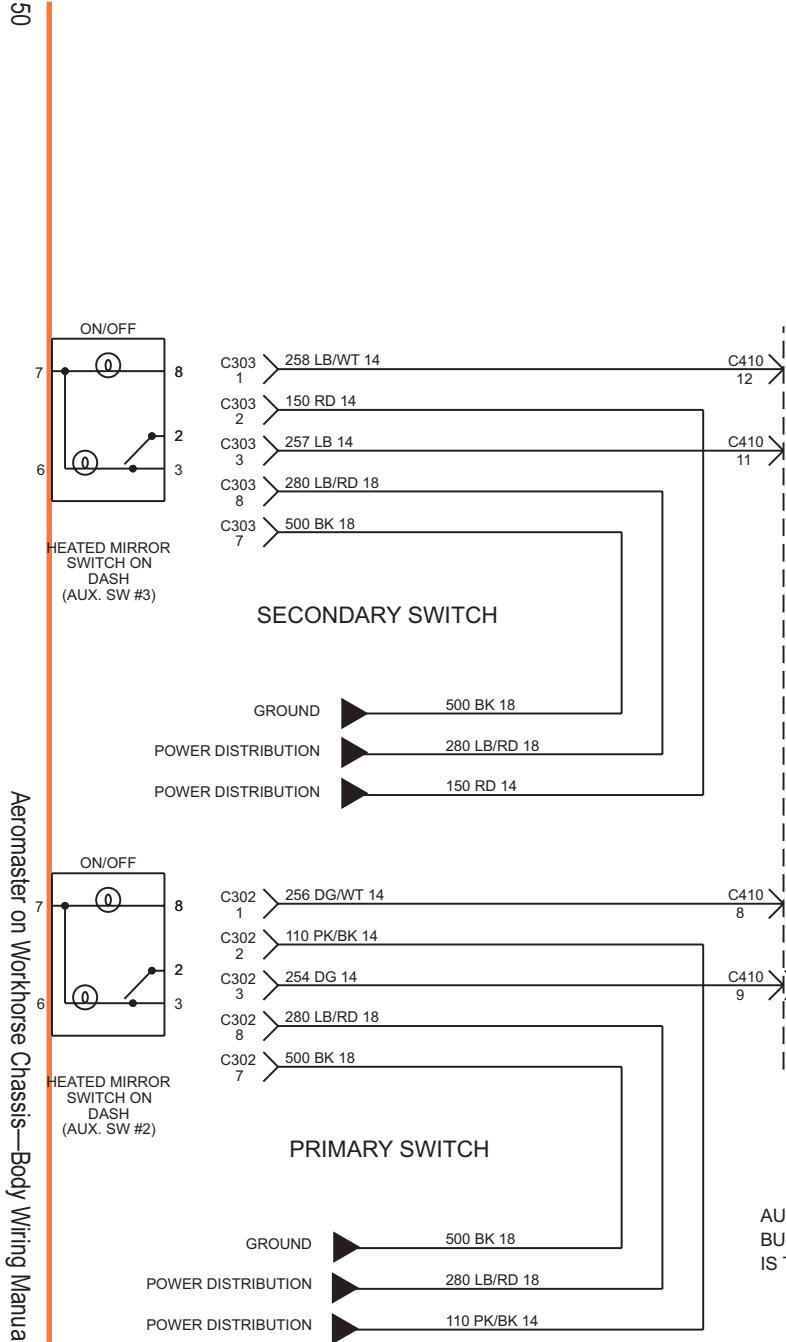
C410 9 → C411 9 254 DG 14 C412 9 → C413 9/11 254 DG 16



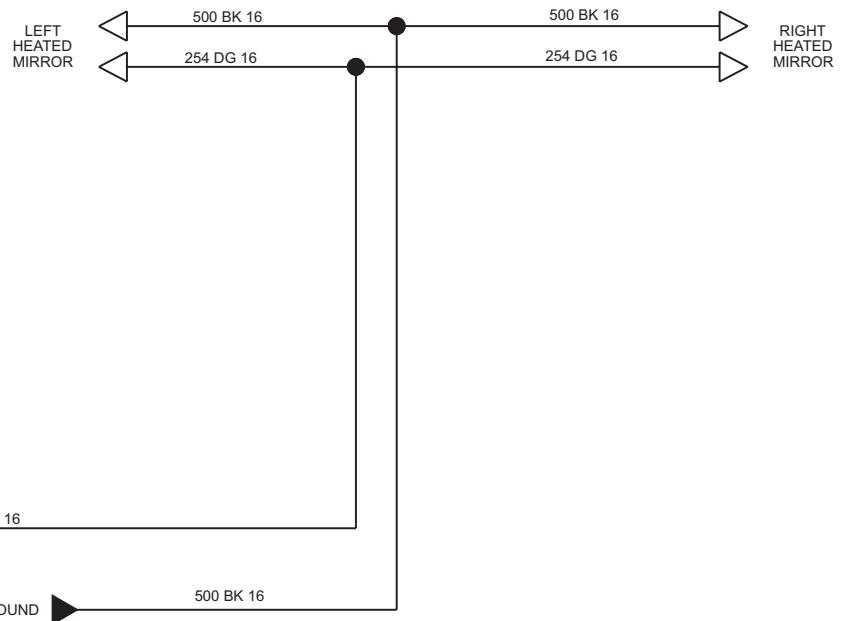
WIRE COLORS USED ON THIS OPTION MAY DIFFER
BASED ON NUMBER OF OPTIONS ON THE UNIT

AUXILIARY SWITCH #2 (C302) IS THE PRIMARY SWITCH FOR THIS OPTION,
BUT IF THIS SWITCH IS ALREADY IN USE, THEN AUXILIARY SWITCH #3 (C303)
IS THE SECONDARY SWITCH.

23—Heated Mirrors

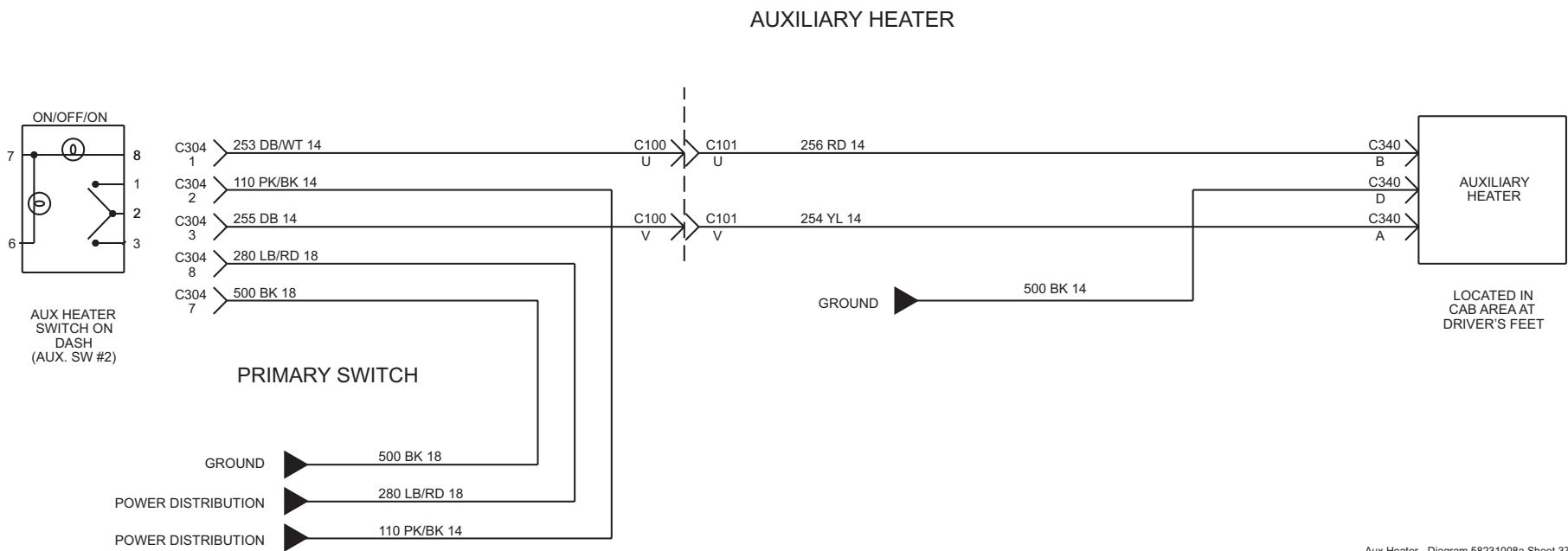


HEATED MIRRORS



AUXILIARY SWITCH #2 (C302) IS THE PRIMARY SWITCH FOR THIS OPTION, BUT IF THIS SWITCH IS ALREADY IN USE, THEN AUXILIARY SWITCH #3 (C303) IS THE SECONDARY SWITCH.

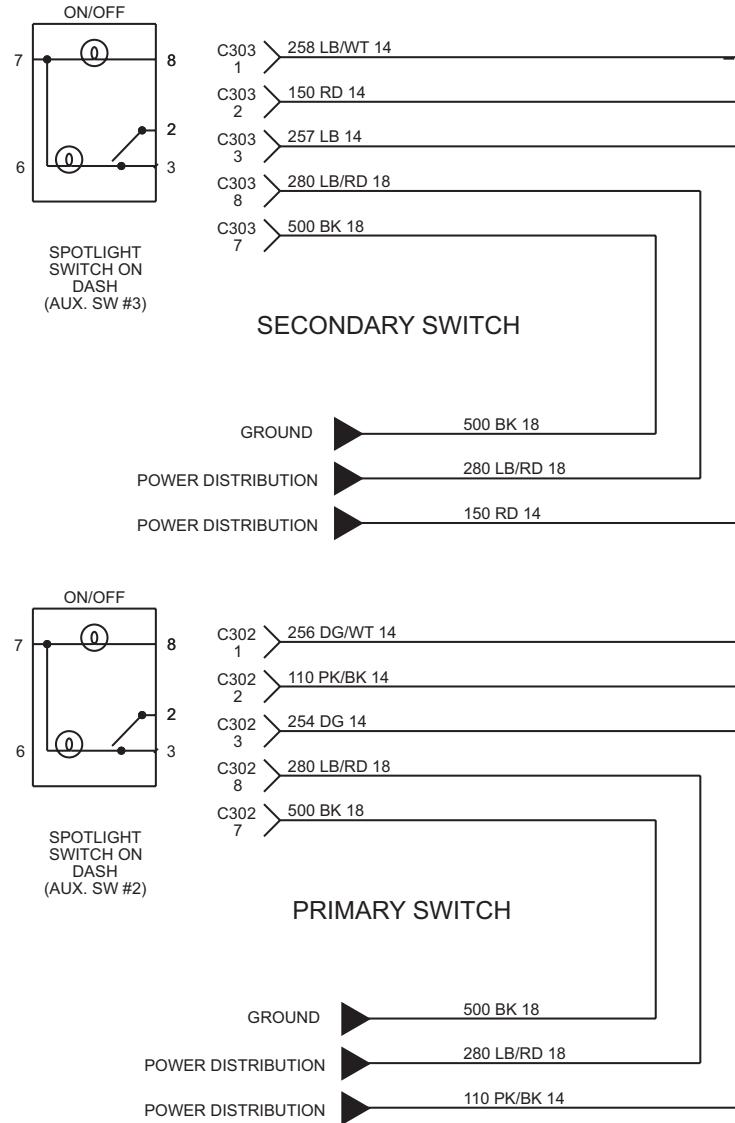
24—Auxiliary Heater



25—Spotlight or Strobe Light

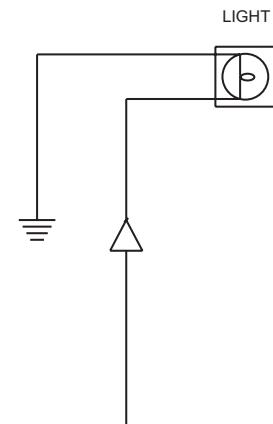
52

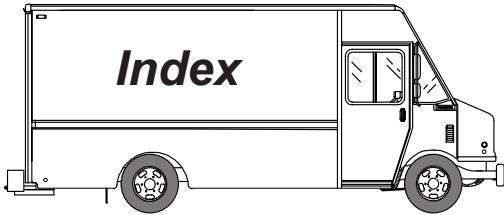
SPOTLIGHT/STROBE LIGHTS



WIRE COLORS USED ON THIS OPTION MAY DIFFER
BASED ON NUMBER OF OPTIONS ON THE UNIT

AUXILIARY SWITCH #2 (C302) IS THE PRIMARY SWITCH FOR THIS OPTION,
BUT IF THIS SWITCH IS ALREADY IN USE, THEN AUXILIARY SWITCH #3 (C303)
IS THE SECONDARY SWITCH.





A

A/C. See HVAC

Accessory outlet 46

Address

National Highway Traffic Safety Administration 9

U.S. Department of Transportation 9

Utilimaster

Customer Service 10

Technical Publications 3

Air conditioning. See HVAC

Alarm, back-up 36, 38

Auxiliary heater. See Heater

B

Back-up. See Alarm and Light

Battery 9

Body serial number 7

Bumpers 10

C

Chevrolet chassis 6, 10

CHMSL (Center High Mount Stop Light). See
Light: Supplemental High Mount Stop
Light

Cigarette lighter. See Accessory outlet

Color code 11

Connectors 12, 13, 14, 15, 16, 17, 18

Cummins diesel 6, 14, 15, 16, 17, 25, 32

Cummins diesel ISB4 12

Customer service 10

D

Door ajar system 44

DRL 34, 35

E

Electrical components 10

Email 10

F

Fan, dash 40, 48

Federal Certification Label 7

Finding information 7

G

Glossary of terms 10

GM and GMC chassis 6, 10

Grounding system 20

H

Harness layout 18

Heated mirrors 50

Heater 10. See also HVAC

Auxiliary 51

System (no A/C) 27, 28

HVAC 29, 30, 31. See also Heater

L

Light

Back-up 36, 37, 38, 39

Cab 40

Cargo 23, 24, 40, 47

Center High Mount Stop Light
(CHMSL). See Light: Supplemental High Mount Stop Light

Clearance 40, 41

Daytime running (DRL) 34, 35

Forward 35

Front 32, 33, 34

Head light 32, 33, 34, 35

License plate 36, 37, 38, 39

Master three-way switch

22, 23, 24, 47

Panel 42

Rear 36, 37, 38, 39

Roof 40

Side marker 32, 33, 34, 35

Spot 52

Stop 36, 37, 38, 39

Strobe 52

Supplemental High Mount Stop Light
40

Tail 36, 37, 38, 39

Turn signal

32, 33, 34, 35, 36, 37, 38

M

Mirrors, heated 50

N

Numbers

Body serial number 7

Index 7

Phone 9, 10

Section 7

VIN 7

O

Outlet. See Accessory outlet

P

Parts

Guide 10

Manual 10

Phone numbers 9, 10

Power distribution 19

R

Revision 3

S

Safety 8, 9

Sections 7

Service manual 10

Spotlight 52

Stereo system 43

Strobe light 52

Switches

A/C 29, 30, 31

Auxiliary 21

Auxiliary heater 51

Blower 27, 28, 29, 30, 31

Dash 48

Heated mirror 50

Hi/Lo (A/C) 29, 30, 31

Master light switch 21

Master three-way (cargo) 23, 24, 47

Power vent 49

Spotlight 52

Strobe 52

Thermo (A/C) 29, 30, 31

U

Unit serial number 7

Utilimaster Body Parts Manual 10

Utilimaster body serial number 7

Utilimaster Body Service Manual 10

Utilimaster Glossary of Terms 10

Utilimaster Quick Reference Parts Guide 10

V

VACS 6

Vent, powered 49

VIN 7

W

Web site 3, 10

Wiper system 10

Intermittent 26

Standard 25

Workhorse chassis 6, 10



Part Number: 03102354-WY00EN

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