



Body Wiring Manual



Aeromaster on Navistar International Chassis

Revision B

Revision Control

Revision

Revision B
Revision A

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Important Notices

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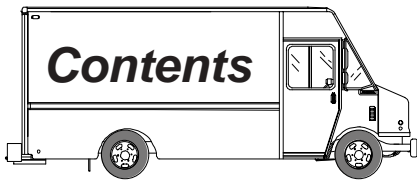
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Introduction

This manual (P/N 03101939) illustrates electrical wiring diagrams for Aeromaster® walk-in bodies on the Navistar International chassis Model Years 1996 to 2006. Wiring diagrams are dependent Model Year and body options.

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 numbers may have changed.

If your vehicle is equipped with a ACE or VACS system, supplementary information is through Utilimaster Customer Service by calling 800-237-7806 (574-862-3219), fax 574-862-7637, or email CustSvc@Utilimaster.com. See the More Information Section in this manual for descriptions and part numbers.

All information, specifications, and Figures 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.

NOTE: These wiring diagrams are a generic sample. Details in these diagrams may differ from those in your vehicle. Because Utilimaster manufactures many customized vehicle bodies, this manual cannot list and illustrate every possible wiring configuration for every vehicle. Use this information as a guideline where it applies.



WARNING: Connecting unauthorized devices to the vehicle's wiring can potentially cause vehicle malfunction, damage, fire, personal injury, and/or voiding of the warranty. Contact Utilimaster before connecting any devices to the vehicle's wiring other than plugging into a supplied accessory outlet (cigarette lighter).

Vehicle Identification

VIN

The 17-digit chassis **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 label on the cowl (under the hood) on the driver's side. See Figure LA-05. The number is also recorded on the Federal Certification Label (see Figure LA-15) and on the International Incomplete Vehicle Component Information label on the shelf above the windshield.



LA-05

Vehicle Identification Label under the hood

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 found on the driver's side forward door post. (See Figures LA-10 and LA-15).

Work Order Numbers

A 7-digit **Work Order Number** appears below the Unit Serial Number on the Federal Certification Label. See Figure LA-15.



LA-10

Federal Certification Label on Door Post



LA-15

Federal Certification Label

Safety Considerations—Notes, Cautions, and Warnings

As you read through the procedures, you will come across NOTES, CAUTIONS, and WARNINGS. Each one is there for a specific purpose.

- **NOTES** give you additional information that will help you to complete the procedure.
- **CAUTIONS** warn you against making an error that could damage the vehicle.
- **WARNINGS** remind you to be careful when there is a risk of personal injury.



Below are some basic WARNINGS that you should heed when you work on the vehicle's body. They are not all inclusive, however, and common sense must be used when servicing vehicles.

- Always wear safety glasses and other proper protective equipment (gloves, steel-toed shoes, face shields, knee pads, hearing protection) as appropriate to the process.
- Use safety stands and/or wheel blocks whenever you are underneath the vehicle.
- Put the transmission in Park and set the parking brake before working on the vehicle.
- Be sure that the ignition switch is Off unless otherwise required by the procedure.
- Operate engines only in well-ventilated areas.
- Keep yourself and your clothing away from the radiator fan, belts, and any moving parts when the engine is running.
- Keep hands and other objects clear of the radiator fan blades. The electric fan can start at any time even though the ignition is Off. Disconnect the fan when working under the hood.
- Avoid contact with hot metal parts, such as the radiator or exhaust system.
- Always remove rings, watches, hanging jewelry, and loose clothing before working on a vehicle. Tie long hair securely behind your head.
- Become familiar with all warning labels.
- Utilimaster recommends that a licensed automotive air-conditioning specialist work on the vehicle's air-conditioning (HVAC) system.
- Avoid breathing A/C refrigerant and lubricant vapor or mist. Exposure may irritate eyes, nose, and throat. If accidental system discharge occurs, ventilate work area **before** resuming service. Additional health and safety information may be obtained from refrigerant and lubricant manufacturers.

Chassis



WARNING: To avoid accidental shock or damage to the vehicle, disconnect the battery before servicing an electrical component. Check your chassis-supplied operation or service information for specific recommendations.



WARNING: Always remove the (black) Negative cable(s) first and connect it last.



Figure BA-10
Stepwell Battery Access

Battery

Access

NOTE: The batteries on most Aeromasters are located under an access panel in the right-hand stepwell. See Figure BA-10. Otherwise see the Chassis Service Manual.

Disconnection

1. Make sure the ignition switch is Off.
2. Disconnect the **Negative (black)** battery cable(s) **first**. See Figure BA-20.
3. Tuck the battery cable away from the terminal to prevent accidental contact.
4. When servicing the vehicle is finished, reconnect the cable.

Removal

1. Disconnect battery. See the Disconnection section.
2. Remove the Positive battery cable(s).
3. Remove the battery hold-downs.
4. Note the location of the posts and remove the battery from the vehicle.



Figure BA-20
Negative (black) Cable Disconnected and Tucked Away

Installation

1. Install the battery in the battery tray—in **the same orientation**.
2. Secure the battery hold-downs.
3. Connect the battery cables, **Negative last**.

NOTE: Remember to fasten the access panel.

Fuses and Relays

The Navistar International chassis has two banks of fuses and relays. One is in the cab area just to the left of the dash panel. See Figure BA-25. There is also a panel under the hood mounted on the cowl on the right-hand (passenger's) side of the vehicle. See Figure BA-30.



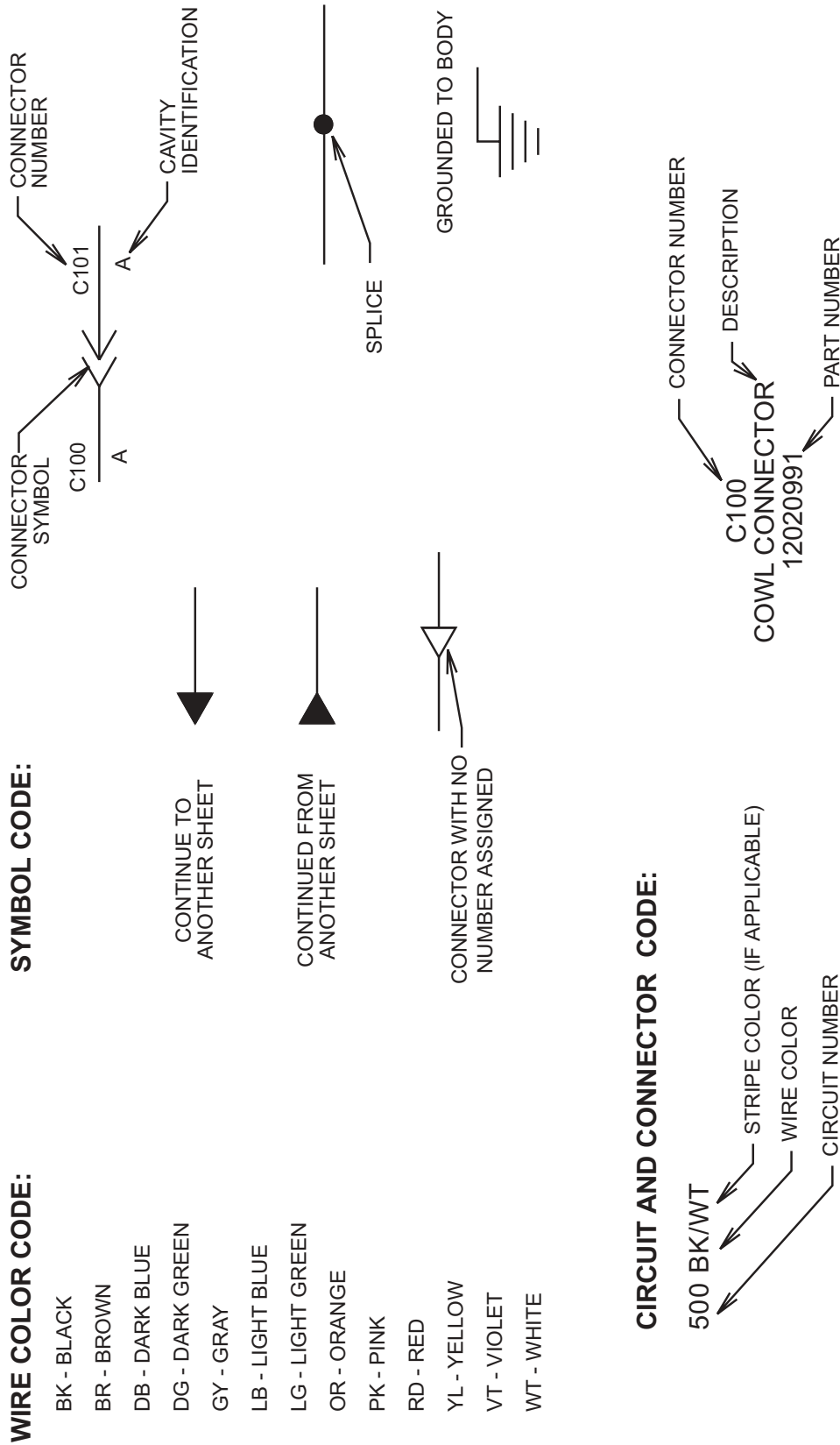
*Figure BA-25
Chassis fuses to the left of the dash panel.*



*Figure BA-30
Chassis fuses under the hood on the right-hand
(passenger's) side of the vehicle.*

Symbol Codes and Identification

Codes and Symbols



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.

Wire_Color_Codes_Symbols

Circuit Number Identification

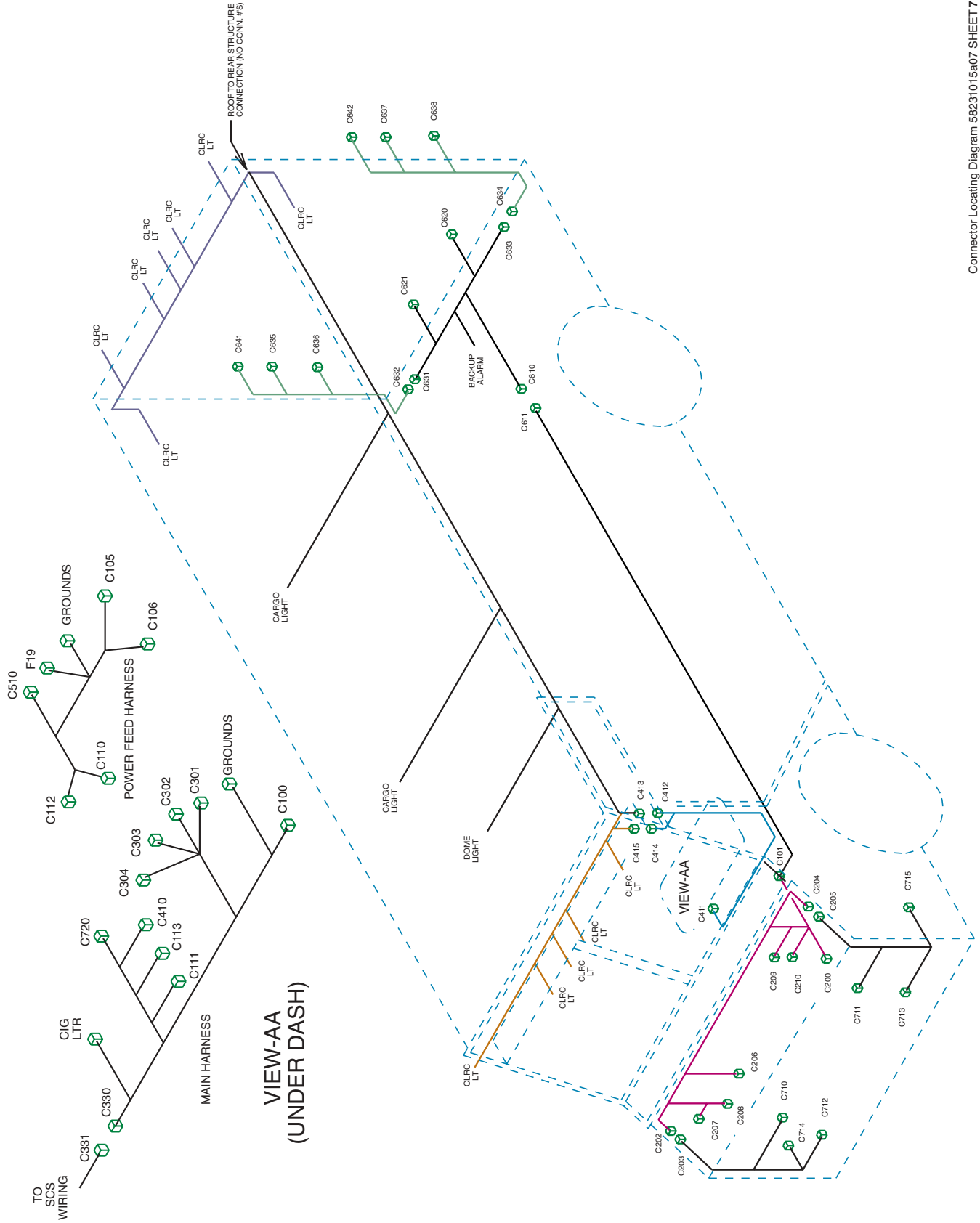
CIRCUIT NUMBER IDENTIFICATION

CIRC No.	COLOR	DESCRIPTION	CIRC No.	COLOR	DESCRIPTION	CIRC No.	COLOR	DESCRIPTION
110	PINK W/ BLACK STRIPE	IGNITION POWER	258	LIGHT BLUE W/ WHITE STRIPE	AUXILIARY SWITCH	*925	BLACK	RIGHT DOOR OPEN SWITCH 2
120	ORANGE	WIPER POWER	280	LIGHT BLUE W/ RED STRIPE	ILLUMINATION	*926	YELLOW	BLKHD DOOR OPEN SWITCH 1
130	RED	CIGARETTE LIGHTER POWER	350	BLACK W/ PINK STRIPE	DOOR AJAR SIGNAL	*927	BLACK W/ WHITE STRIPE	LEFT DOOR SOLENOID 1
150	RED	BATTERY POWER	380	LIGHT BLUE	UPS SECURITY CIR 1	*928	BLACK W/ WHITE STRIPE	RIGHT DOOR SOLENOID 1
170	RED	AUXILIARY BATTERY POWER	381	VIOLET	UPS SECURITY CIR 2	*929	BLACK W/ WHITE STRIPE	BLKHD DOOR SOLENOID 1
200	DARK BLUE	DOME LIGHT POWER	382	LT BLUE W/ BLK STRIPE	UPS SEAT PRESSURE CIR 1	*930	BLACK W/ WHITE STRIPE	RIGHT DOOR SOLENOID 2
220	YELLOW	CARGO LIGHTS	383	VIOLET W/BLK STRIPE	UPS SEAT PRESSURE CIR 2	*931	BLACK W/ WHITE STRIPE	LEFT DOOR SOLENOID 2
222	YELLOW W/ BLACK STRIPE	CARGO LIGHTS (3 WAY SWITCH)	500	BLACK	GROUND	*933	BLACK W/ WHITE STRIPE	BLKHD DOOR SOLENOID 2
224	YELLOW W/ WHITE STRIPE	CARGO LIGHTS (3 WAY SWITCH)	510	BLACK W/ WHT STRIPE	WIPER MOTOR GROUND	*934	RED	COMMUNICATION BUS HIGH
230	BROWN	TAIL/RUNNING LIGHTS	520	BLACK	DOME LIGHT GRD	*935	BLACK	COMMUNICATION BUS LOW
231	BROWN W/ WHITE STRIPE	CLEARANCE LIGHTS ONLY	530	BLACK	HVAC GROUND	*936	RED	KEYLESS POWER
232	DARK GREEN	RIGHT TURN/STOP	540	BLACK	FRONT LIGHT GROUND	*940	YELLOW	STARTER RELAY
233	DARK GREEN	FRONT RIGHT TURN	700	DARK BLUE W/ WHITE STRIPE	BLOWER MOTOR POWER (HVAC)	*941	YELLOW	ACCESSORY RELAY
234	RED	STOP ONLY	710	DARK GREEN	AC SIGNAL (HVAC)	*942	ORANGE W/ BLACK STRIPE	RELAY COMMON
235	YELLOW	FRONT LEFT TURN	720	DARK GREEN	AC SIGNAL (HVAC)	*943	PINK	IGNITION RELAY
236	LIGHT GREEN	BACK UP	721	DARK GREEN W/ WHITE STRIPE	AC SIGNAL TO COMPRESSOR	*944	LIGHT BLUE	INTERIOR LIGHT RELAY
237	GRAY	UNIVERSAL TURN/STOP	731	DARK BLUE	HVAC WATER VALVE SIGNAL	*945	ORANGE	INTERIOR LIGHT RELAY
238	YELLOW	LEFT TURN/STOP	820	DARK GREEN	WIPER LOW	*946	YELLOW	INTERIOR LGHT RELAY OUTPUT
240	LIGHT GREEN W/ BLACK STRIPE	LO BEAM (HEADLIGHT)	830	RED	WIPER HIGH	*947	PINK W/ BLACK STRIPE	HORN TRIGGER (GND)
241	LIGHT GREEN W/ WHITE STRIPE	RIGHT LO BEAM (HEADLIGHT)	840	GRAY	WIPER PARK	*948	LIGHT GREEN	ACC AND IGN RELAY TRIGGER
242	RED W/ BLACK STRIPE	HIGH BEAM (HEADLIGHT)	890	VIOLET	WASHER MOTOR	*950	BLACK	REAR DOOR OPEN SWITCH 2
243	RED W/ WHITE STRIPE	LEFT HIGH BEAM (HEADLIGHT)	*920	DARK GREEN	EXTERIOR DOOR SWITCH	*960	YELLOW	REAR DOOR OPEN SWITCH 1
254	DARK GREEN	AUXILIARY SWITCH	*921	DARK GREEN	BULKHEAD DOOR SWITCH	*961	BALCK W/ WHITE STRIPE	REAR DOOR SOLENOID 2
256	DARK GREEN W/ WHITE STRIPE	AUXILIARY SWITCH	*922	BLACK	LEFT DOOR OPEN SWITCH 2	*962	BALCK W/ WHITE STRIPE	REAR DOOR SOLENOID 1
257	LIGHT BLUE	AUXILIARY SWITCH	*923	YELLOW W/ BLACK STRIPE	LEFT DOOR OPEN SWITCH 1	*970	WHITE	HORN OUTPUT
			*924	YELLOW	RIGHT DOOR OPEN SWITCH 1	*980	DARK GREEN W/ BLACK STRIPE	PASSENGER DOOR OVERRIDE

* SPECIFIC TO THE VACS SYSTEM.

NOTE: These wiring diagrams are a generic sample. Details in these diagrams may differ from those in your vehicle. Because Ultilmaster manufactures many customized vehicle bodies, this manual cannot list and illustrate every possible wiring configuration for every vehicle. Use this information as a guideline where it applies.

Harness Layouts



Wiring Diagrams

Accessory Outlet (Cigarette Lighter)

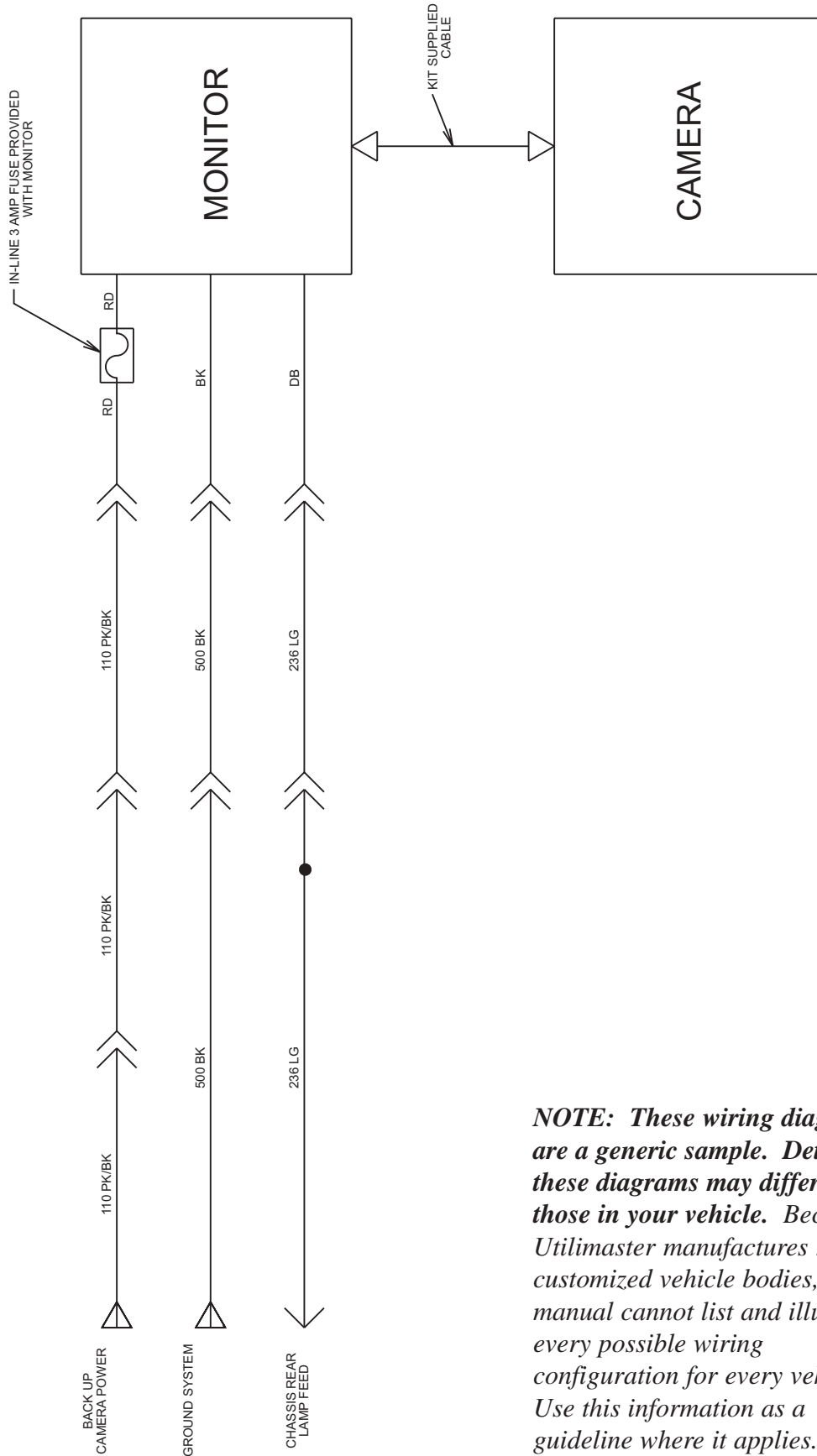


Accessory Outlet - Diagram 56231212ax32 Sheet 32



WARNING: Connecting unauthorized devices to the vehicle's wiring can potentially cause vehicle malfunction, damage, fire, personal injury, and/or voiding of the warranty. Contact Utilimaster before connecting any devices to the vehicle's wiring other than plugging into a supplied accessory outlet (cigarette lighter).

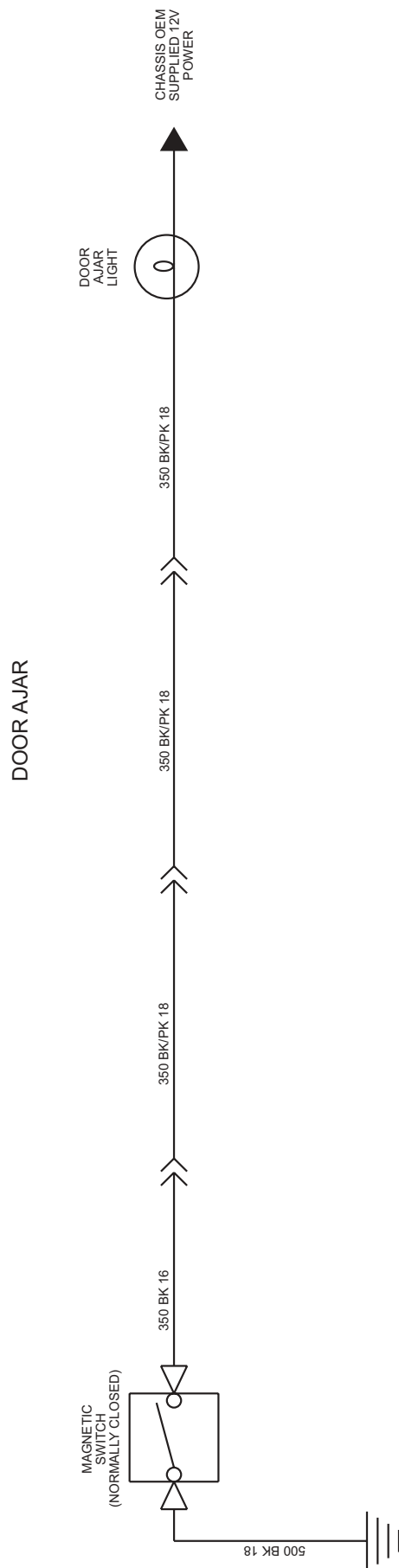
Back-up Camera



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58231292A19a19

Door Ajar System

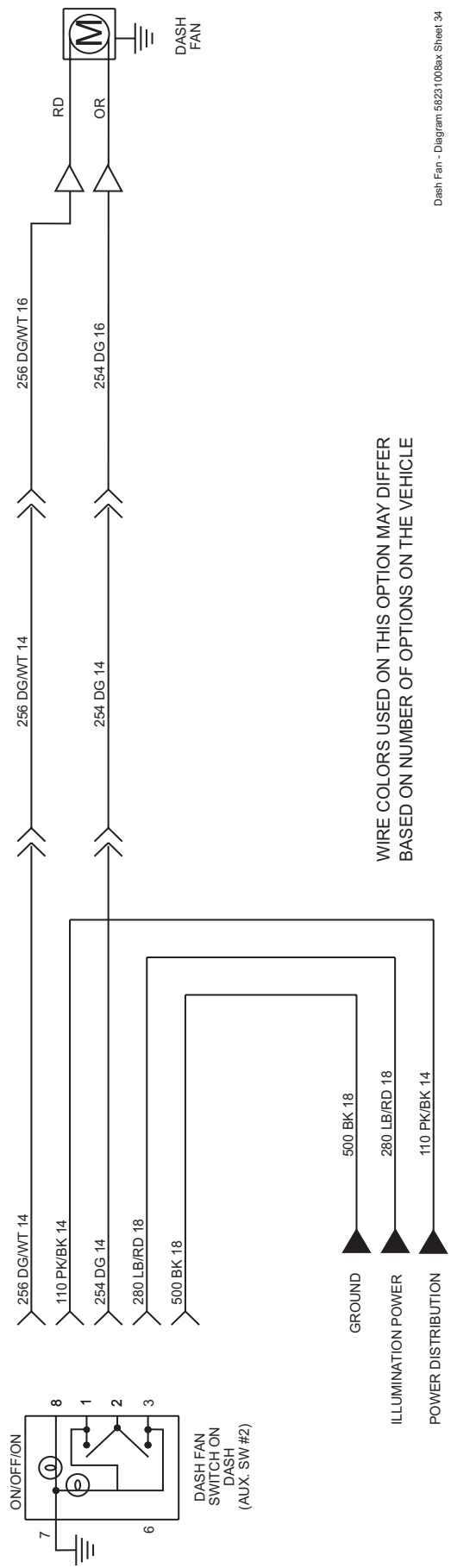


Door Ajar - Diagram 5623 1008ax Sheet 27

Fan, Driver Convenience

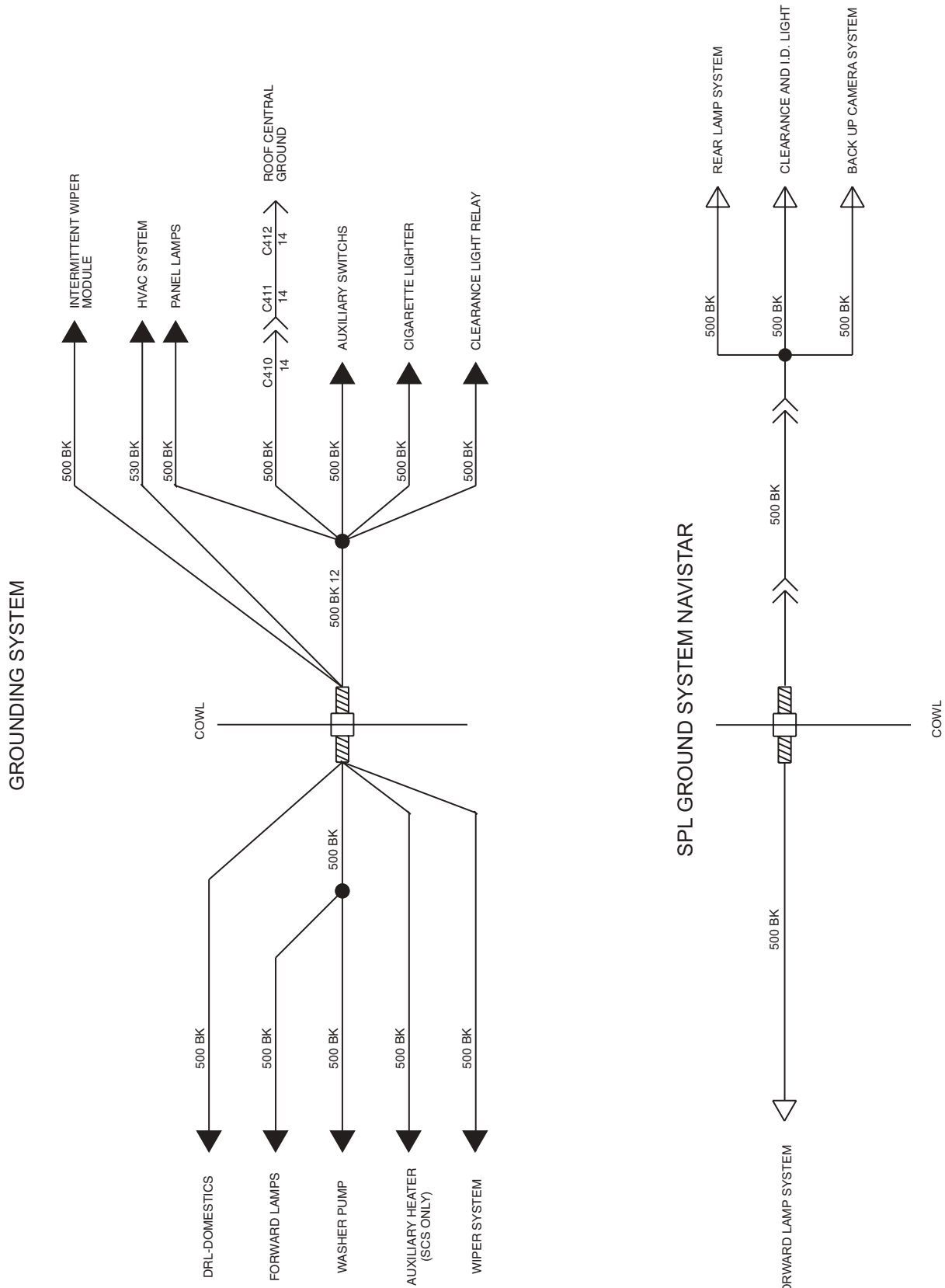
 **WARNING:** Connecting unauthorized devices to the vehicle's wiring can potentially cause vehicle malfunction, damage, fire, personal injury, and/or voiding of the warranty. Contact Utilimaster before connecting any devices to the vehicle's wiring other than plugging into a supplied accessory outlet (cigarette lighter).

DASH FAN



Dash Fan - Diagram 58231008ex Sheet 34

Grounding System

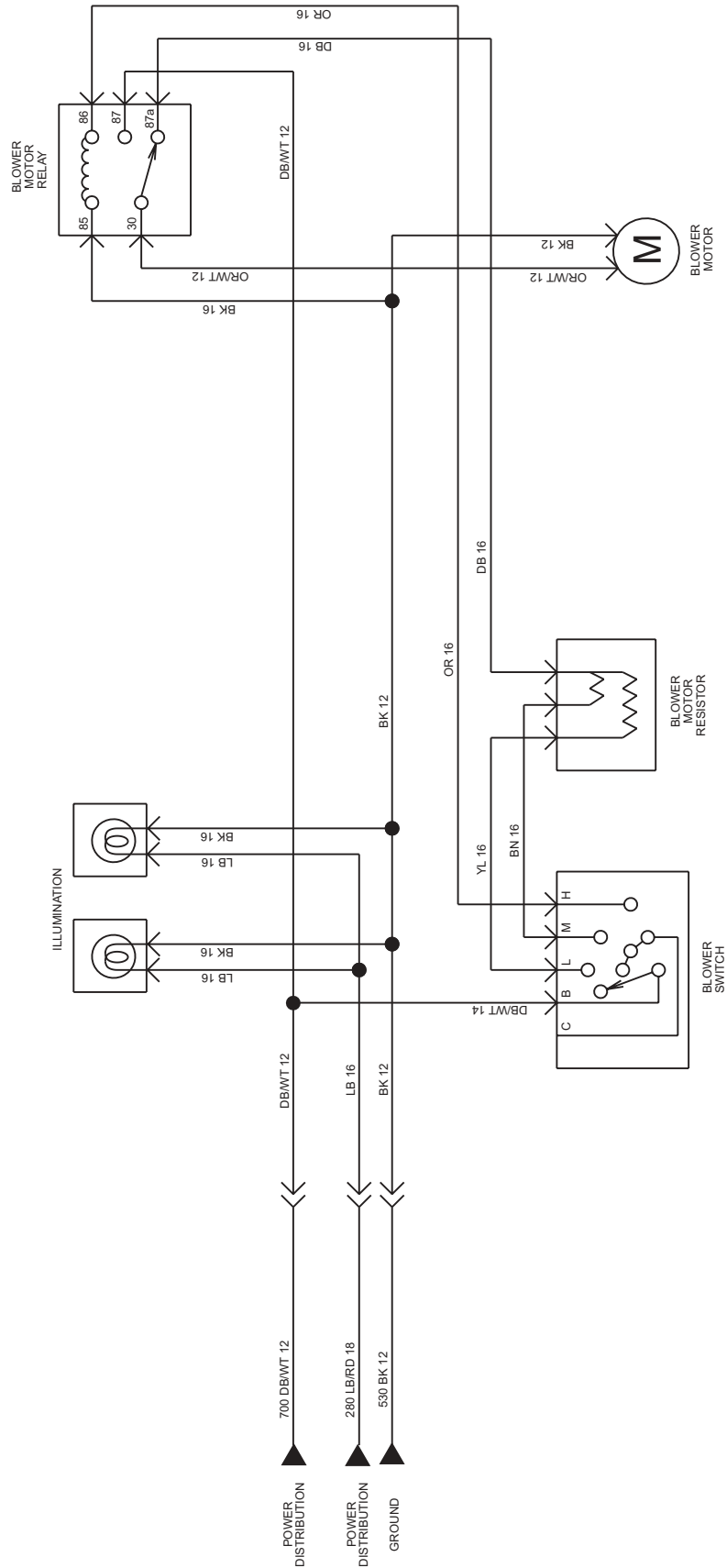


Grounding System 58231015a10 SHEET 10
and 58231292a11 SHEET 11

Heater Only

Manual (Cable) Controls

HEATER ONLY SYSTEM

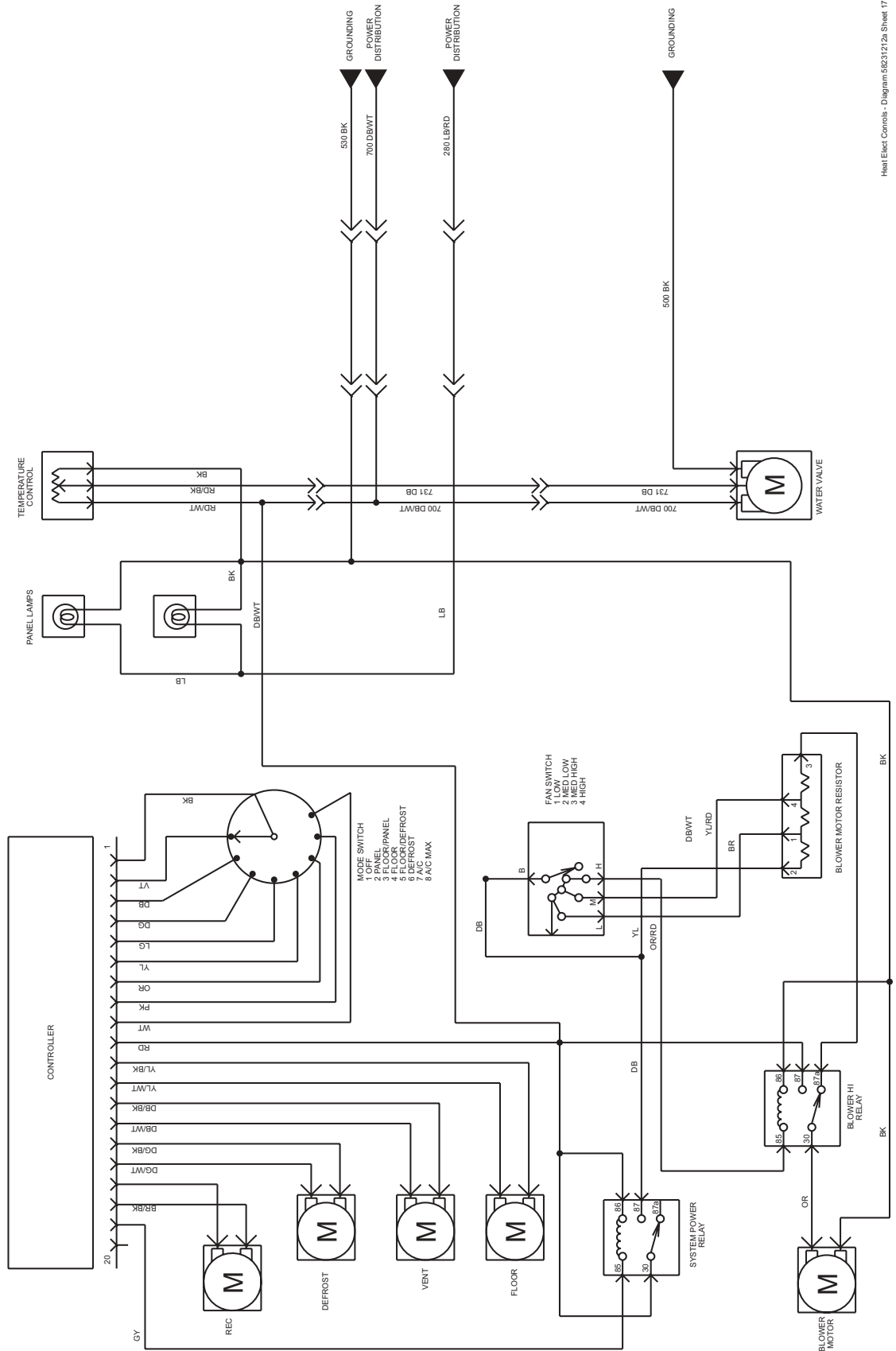


Heat Only Sys - Diagram 58231008a Sheet 13

Heater Only

Electronic Controls

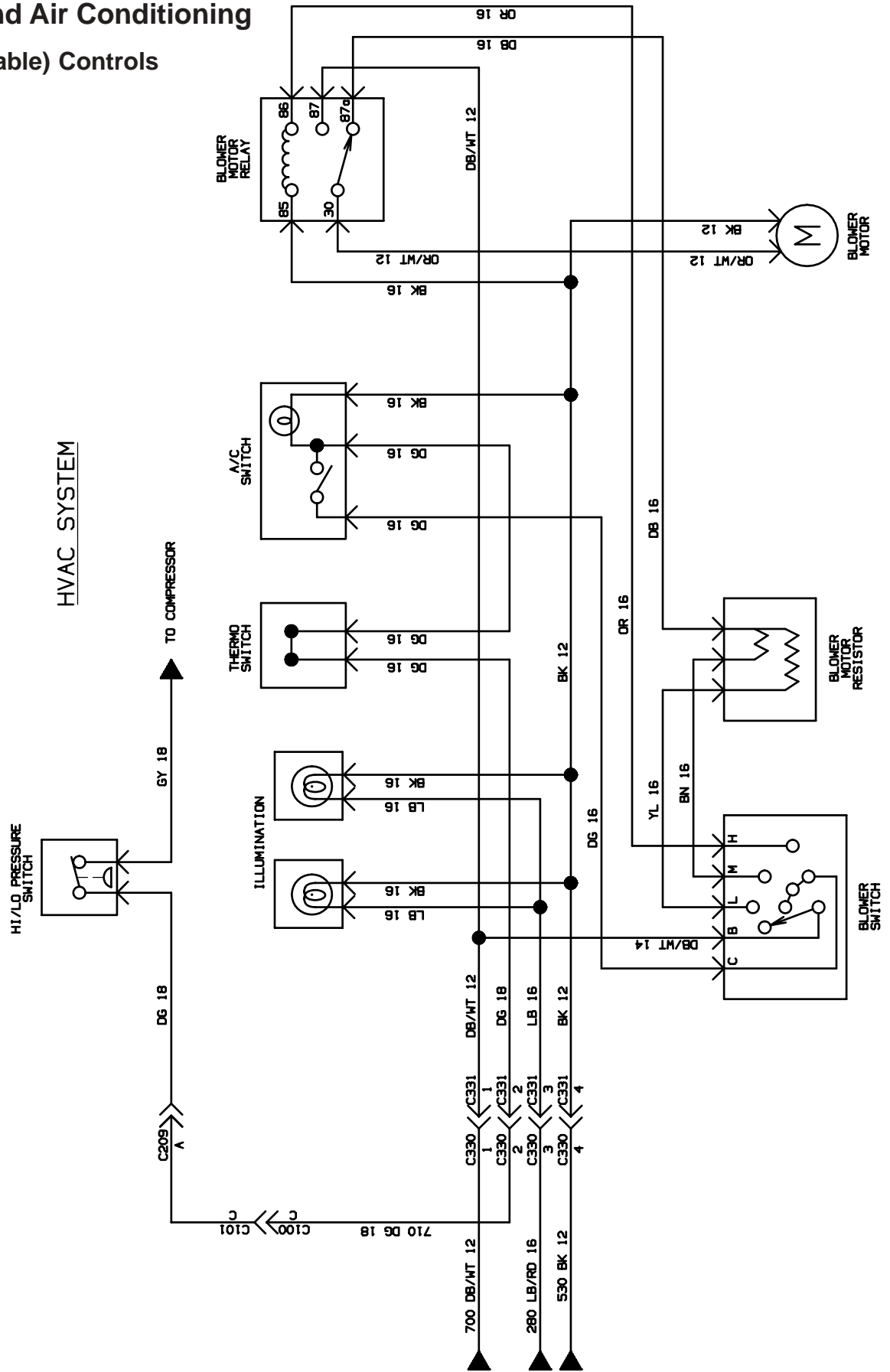
HEAT ONLY ELECTRONIC CONTROLS



Heat Elec Controls - Diagram 56231212a Sheet 17

Heater and Air Conditioning

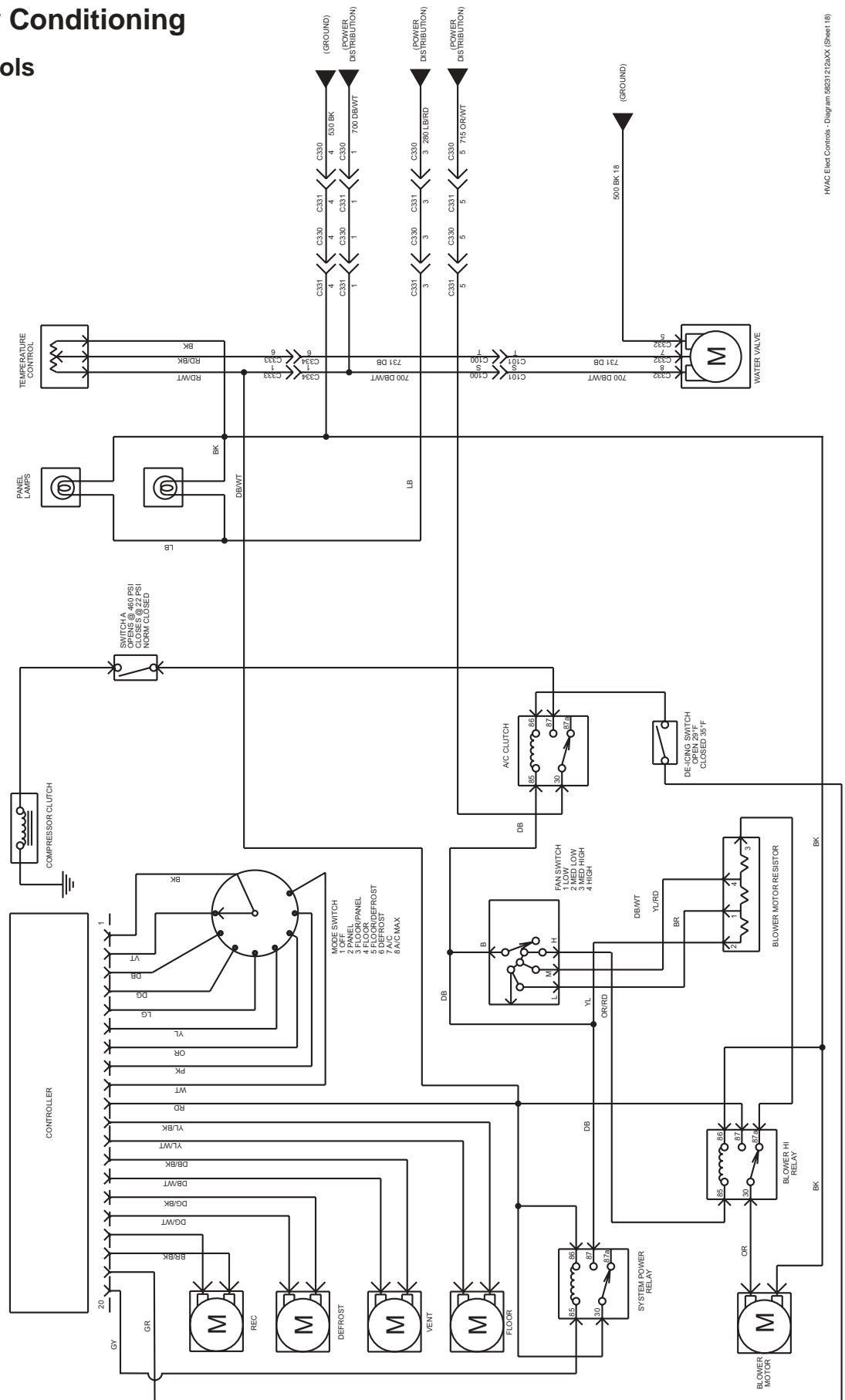
Manual (Cable) Controls



Heater and Air Conditioning

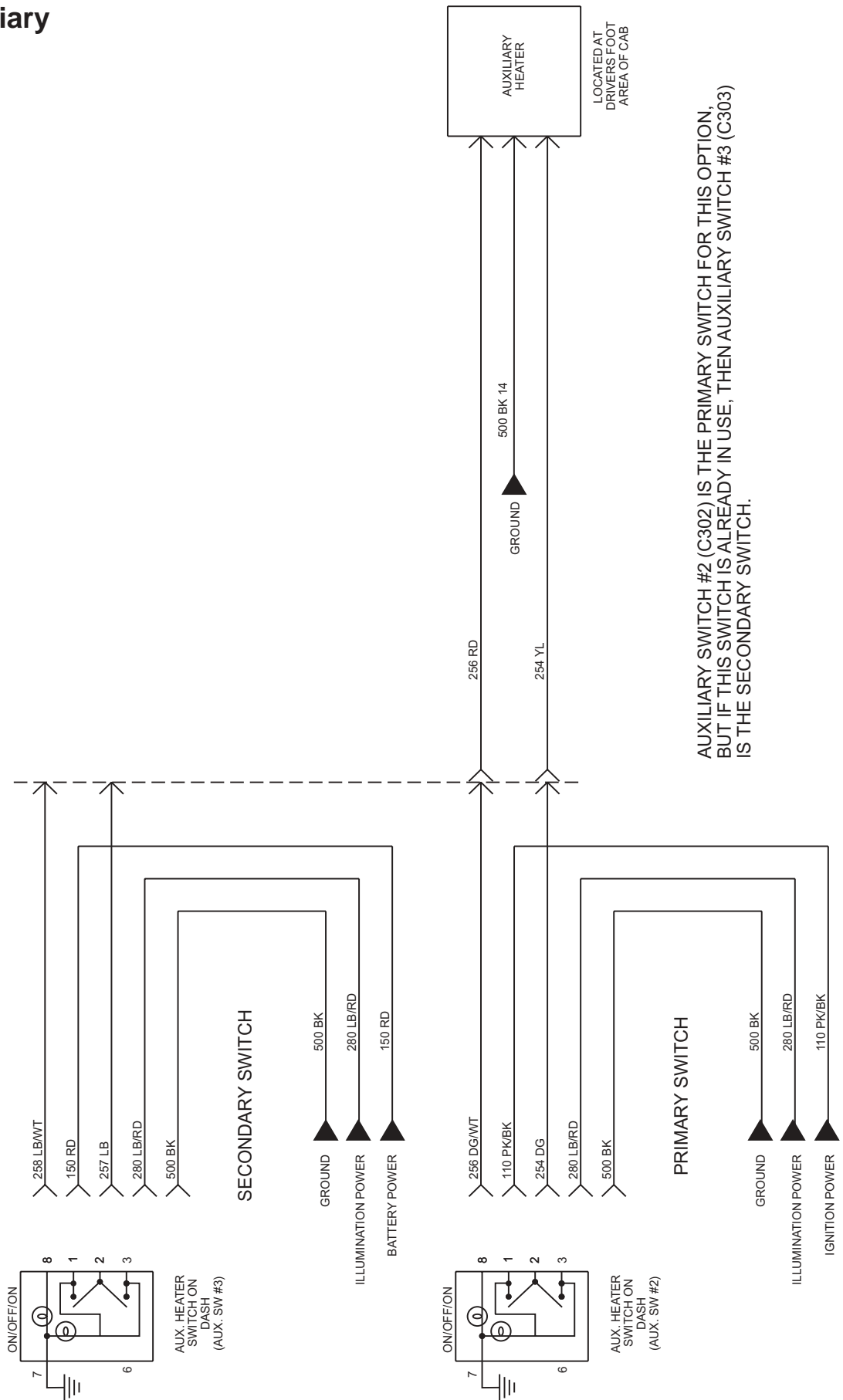
Electronic Controls

HVAC ELECTRONIC CONTROLS

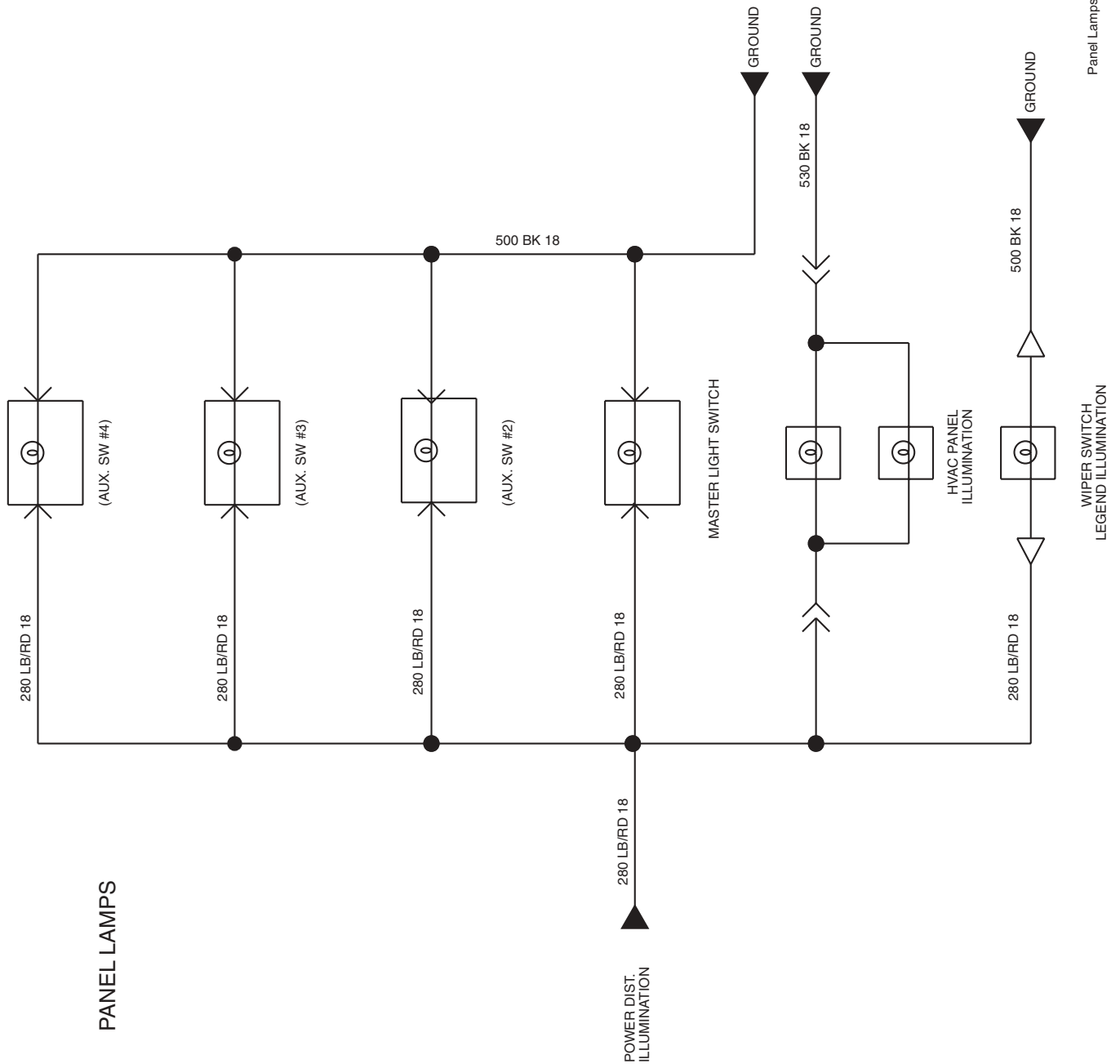


Heater, Auxiliary

AUXILIARY HEATER (DRIVER'S FOOT AREA)



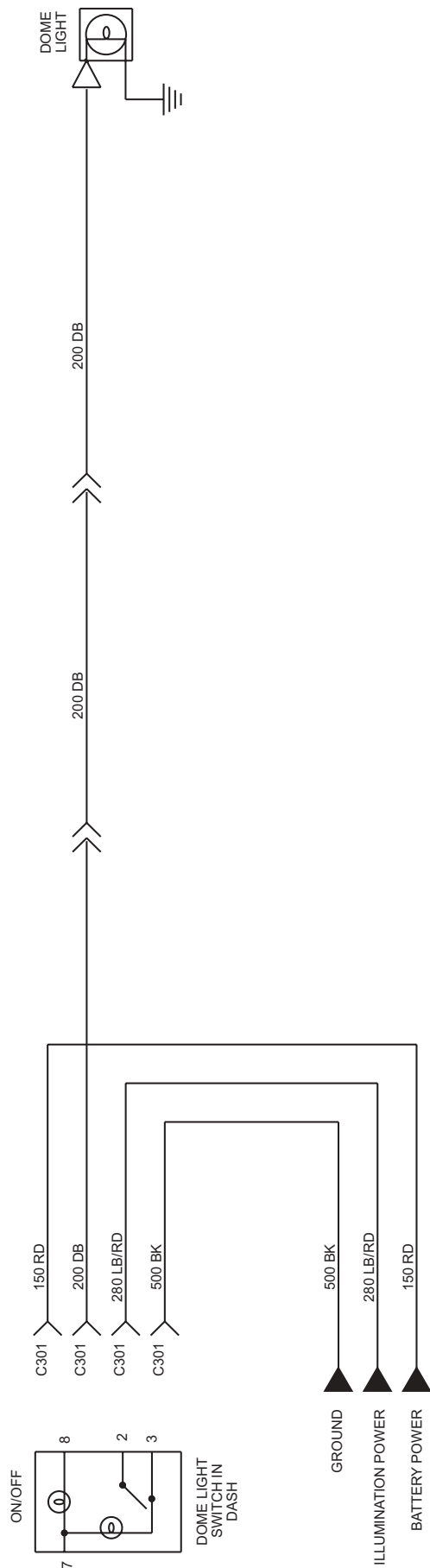
Heater and Air Conditioning, Control Panel Lights



Light, Cab Dome

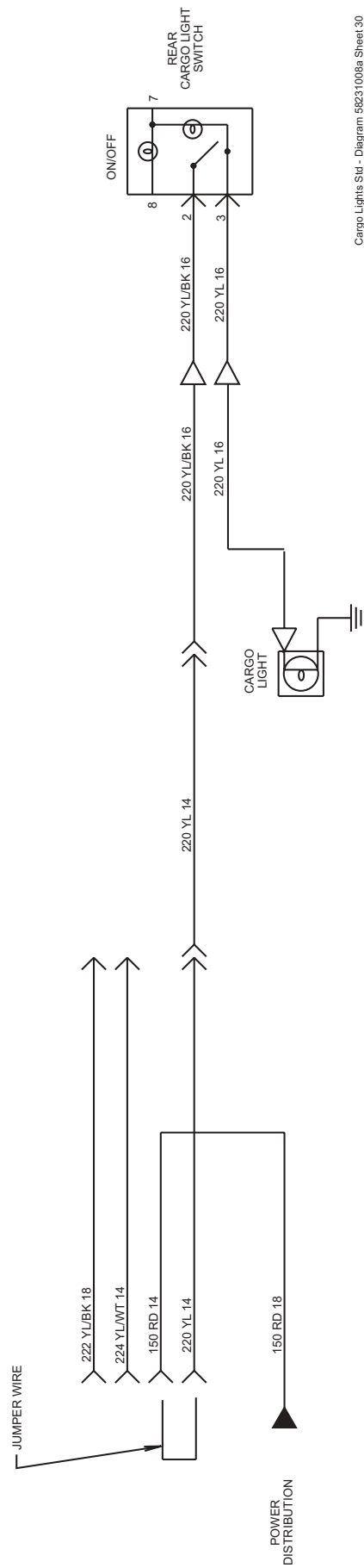
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CAB DOME LIGHT DASH MOUNTED SWITCH



Lights, Cargo Standard

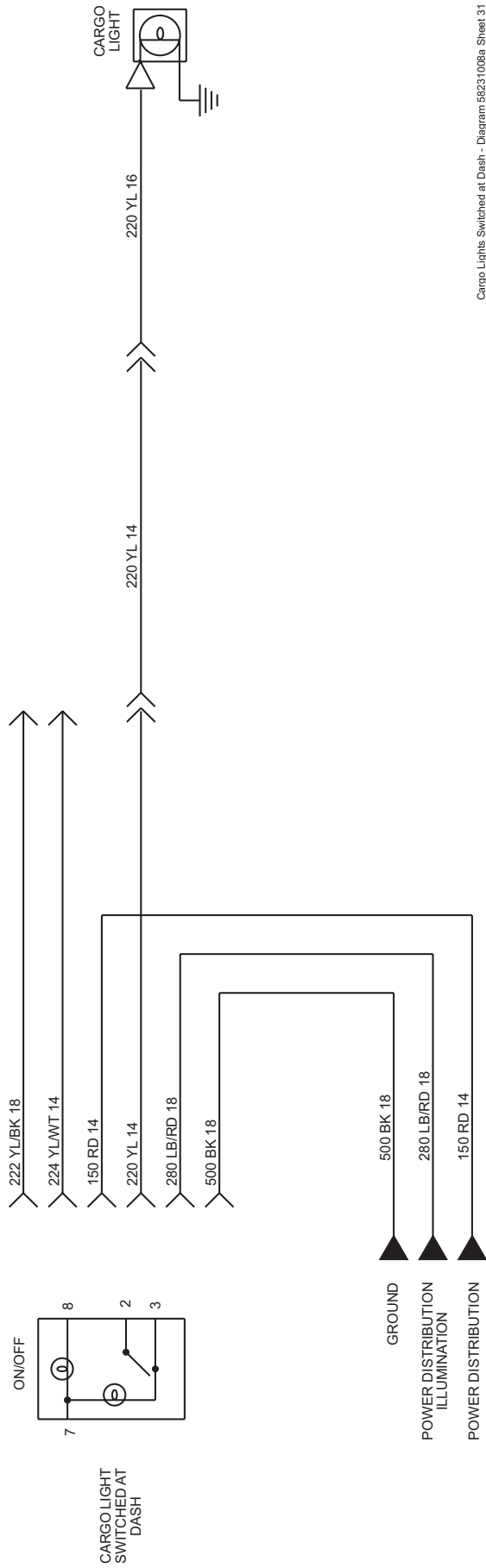
CARGO LIGHTS STANDARD WIRING



Cargo Lights Std - Diagram 56231006a Sheet.30

Lights, Cargo Switch on Dash

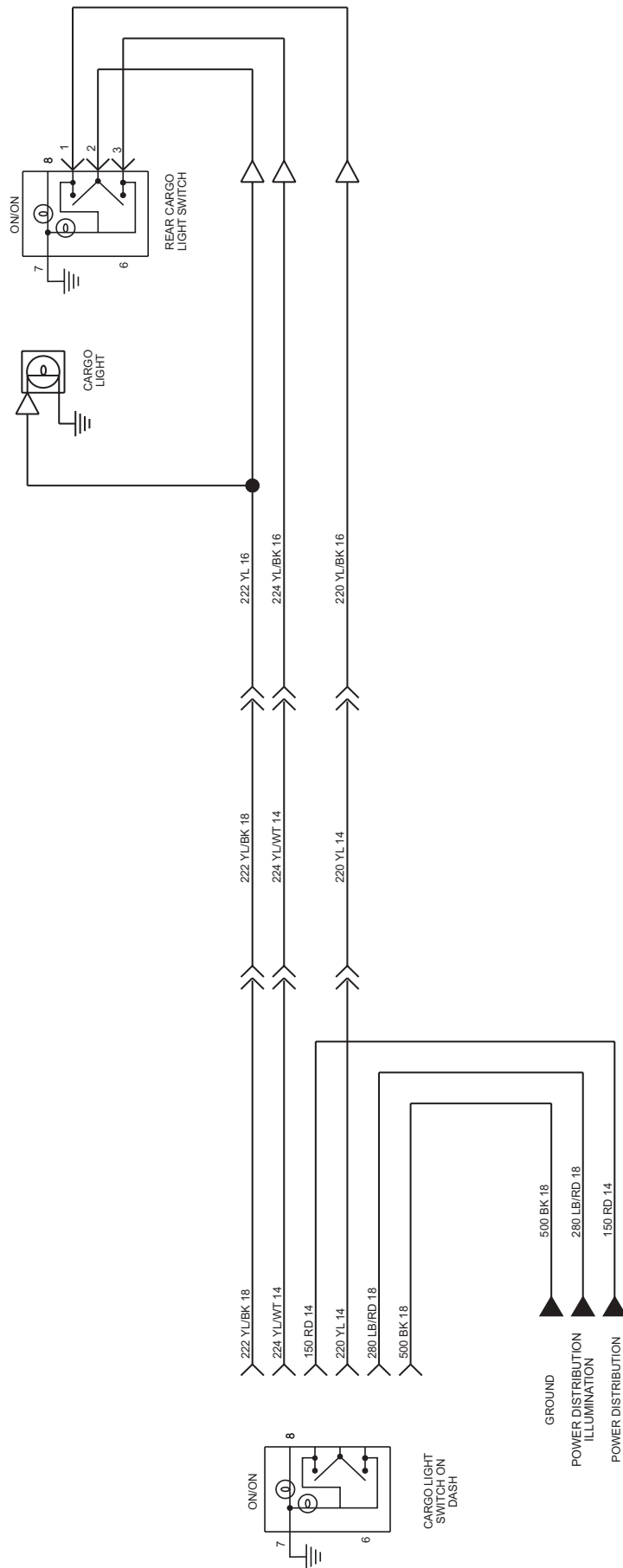
CARGO LIGHTS SWITCHED ON DASH



Cargo Lights Switched at Dash - Diagram 56231 008a Sheet 31

Lights, Cargo Three-Way Switch

CARGO LIGHTS 3-WAY SWITCH

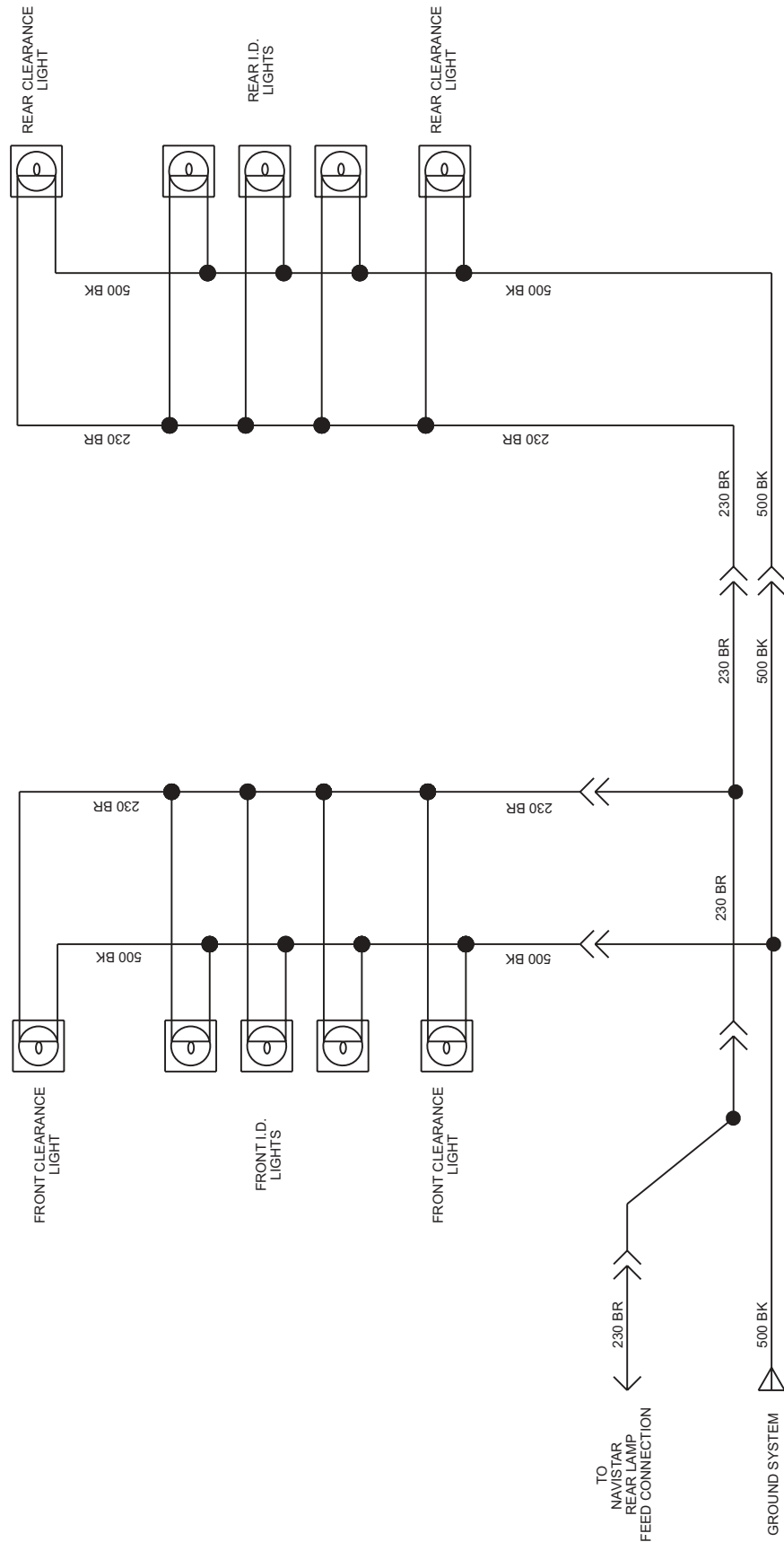


Cargo Lights 3-Way Switch - Diagram 56231008ax Sheet 32

Lights, Forward

Clearance Lights, Standard

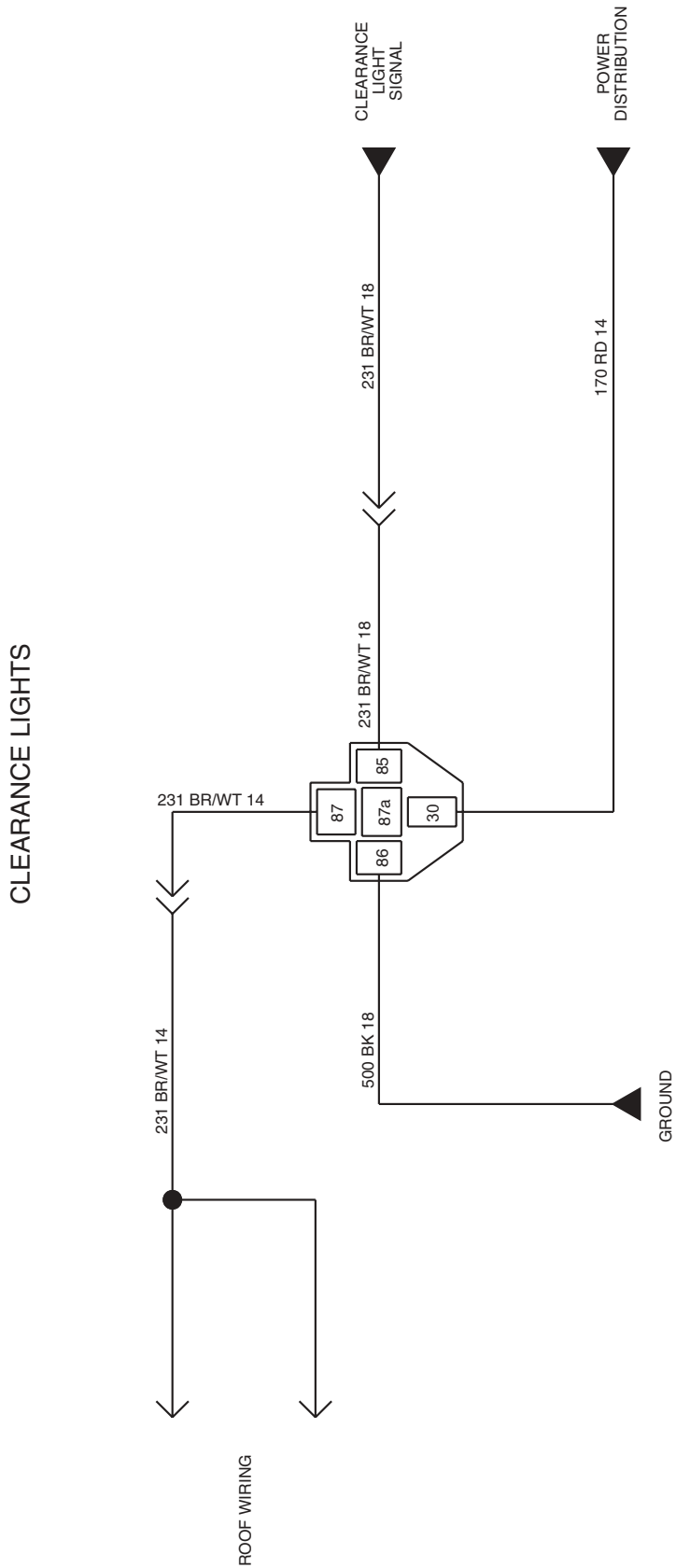
CLEARANCE AND I.D. LIGHTS



56231292A16

Lights, Forward

Clearance Lights with Relay

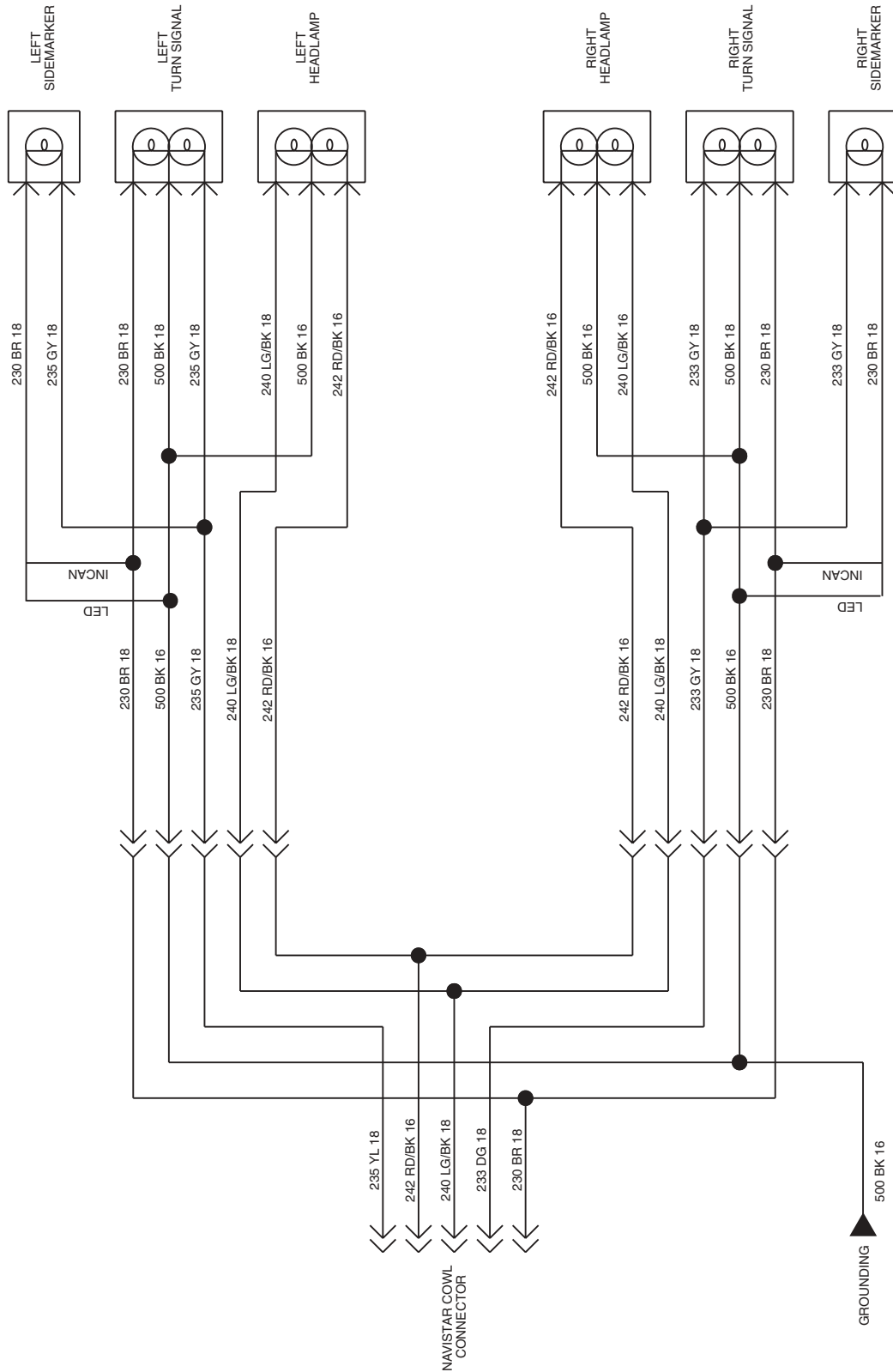


Clearance Lights 58231015a21 SHEET 21

Lights, Forward

Standard

FORWARD LAMP WIRING (DOMESTIC & CANADA)

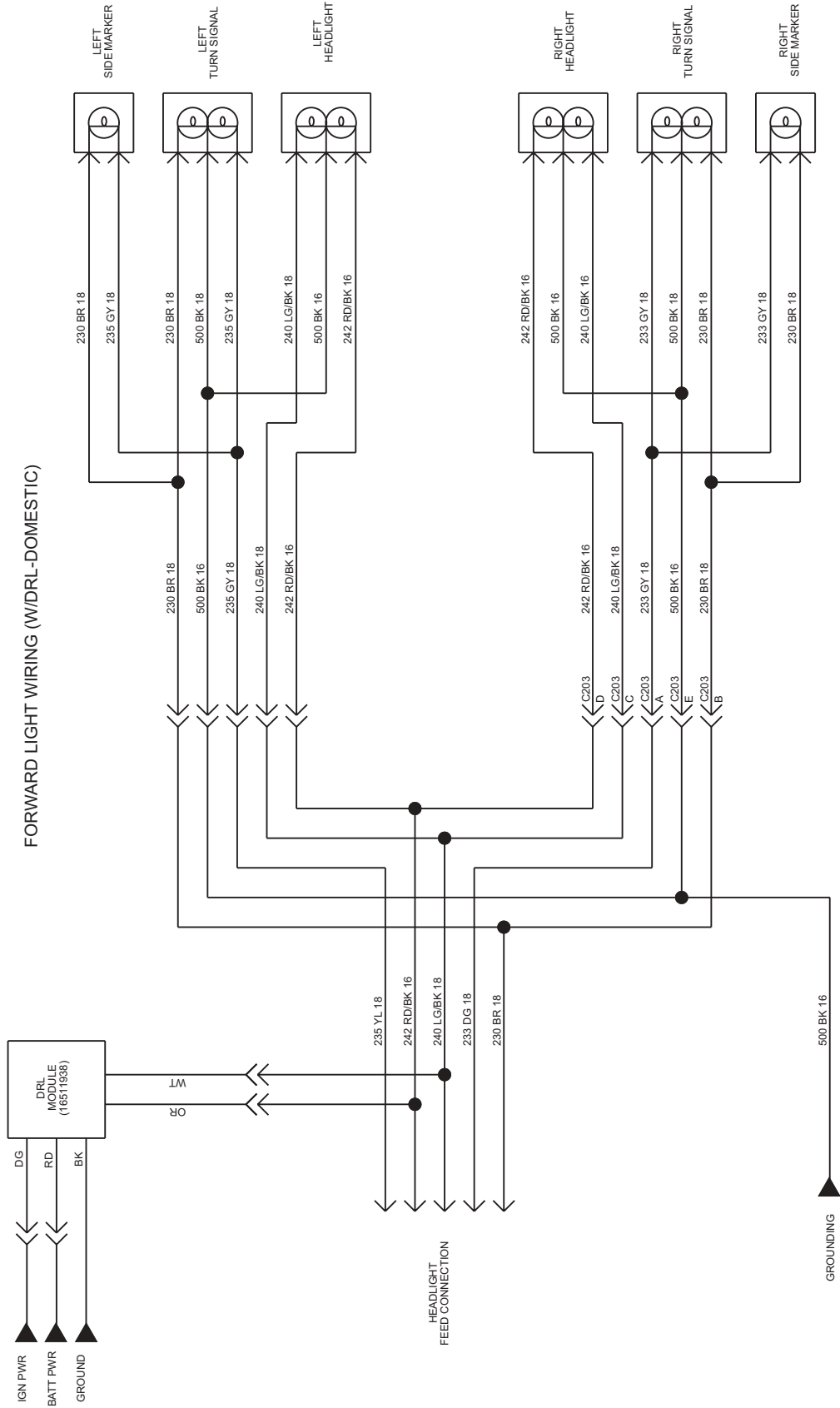


NOTE: All chassis for Canada have Daytime Running Lights (DRL) as part of the chassis wiring (and not part of Utilmaster body wiring)

58231015a16x2

Lights, Forward

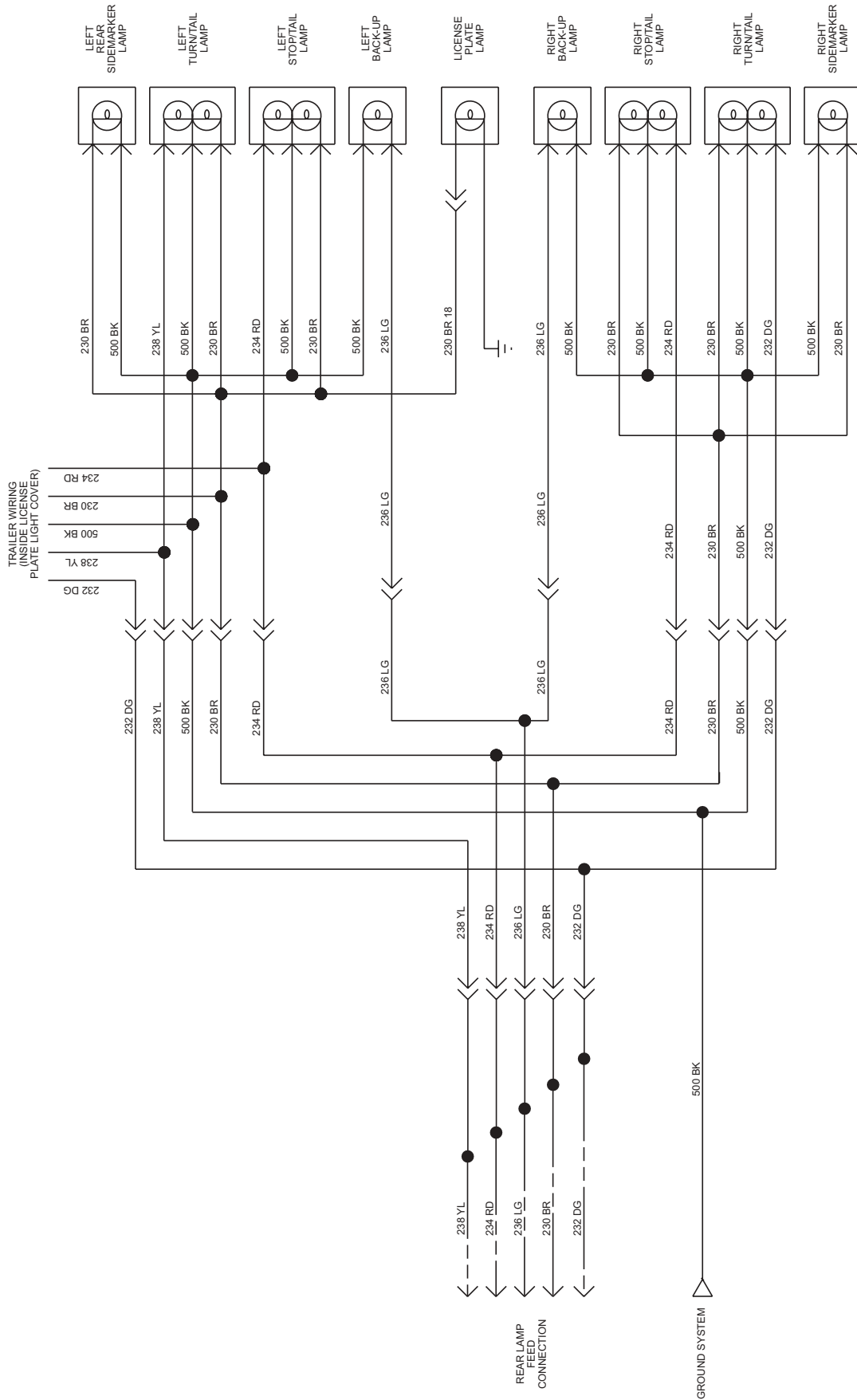
Daytime Running Lights



Lights, Rear

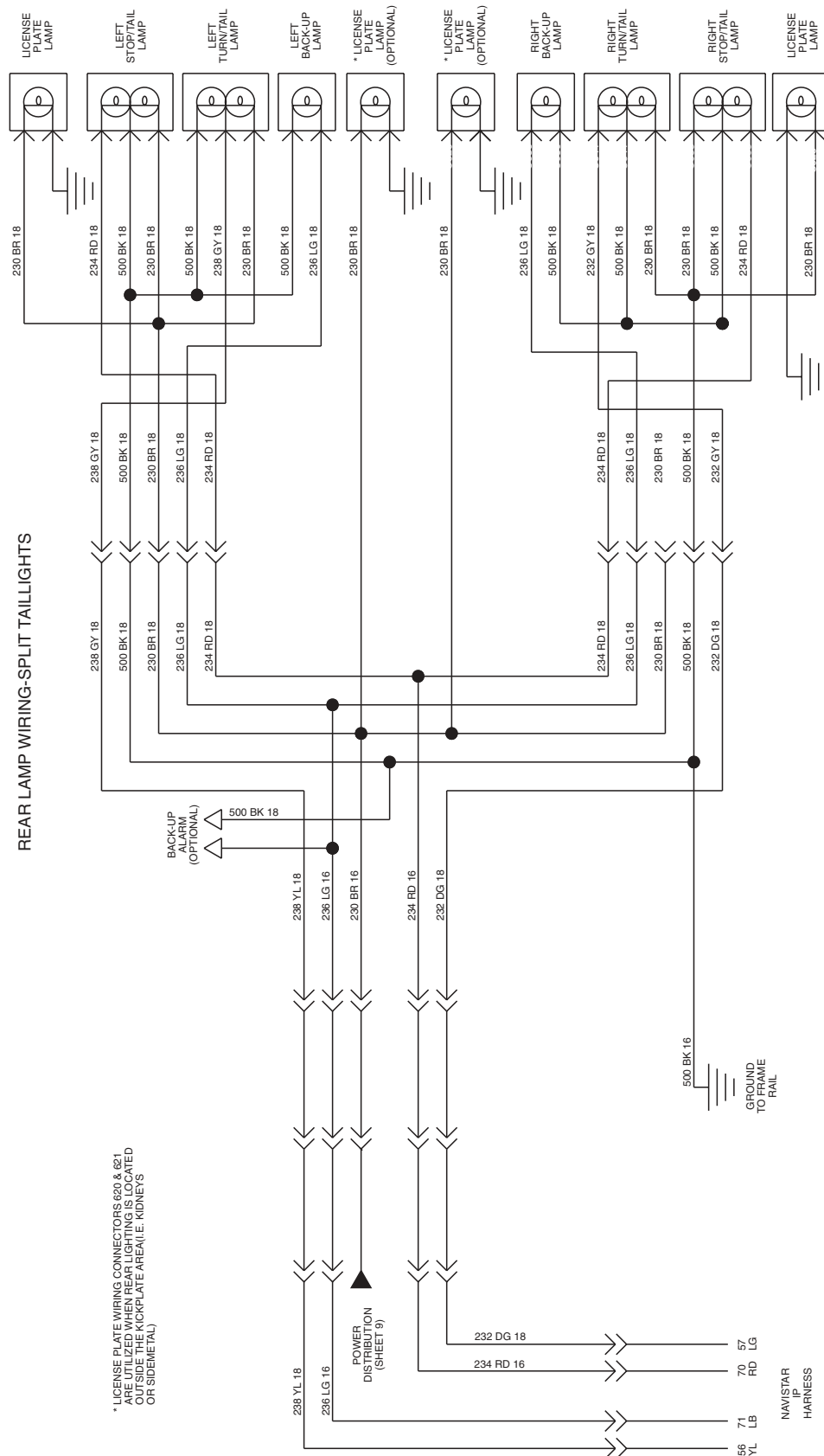
Standard

REAR LAMP SYSTEM



98231292/15

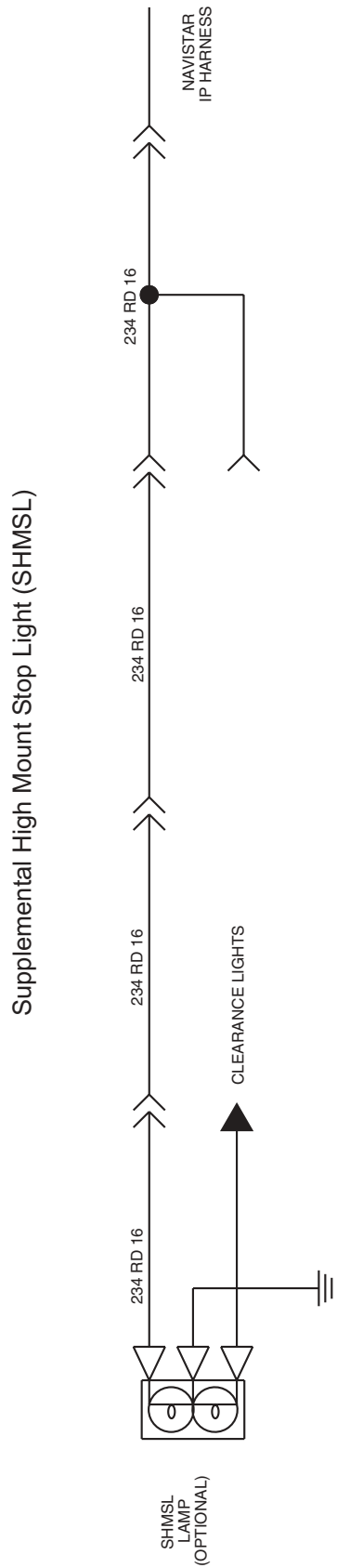
Lights, Rear Split Taillights



Rear Lamp Wiring Split Taillights 5823

Lights, Rear

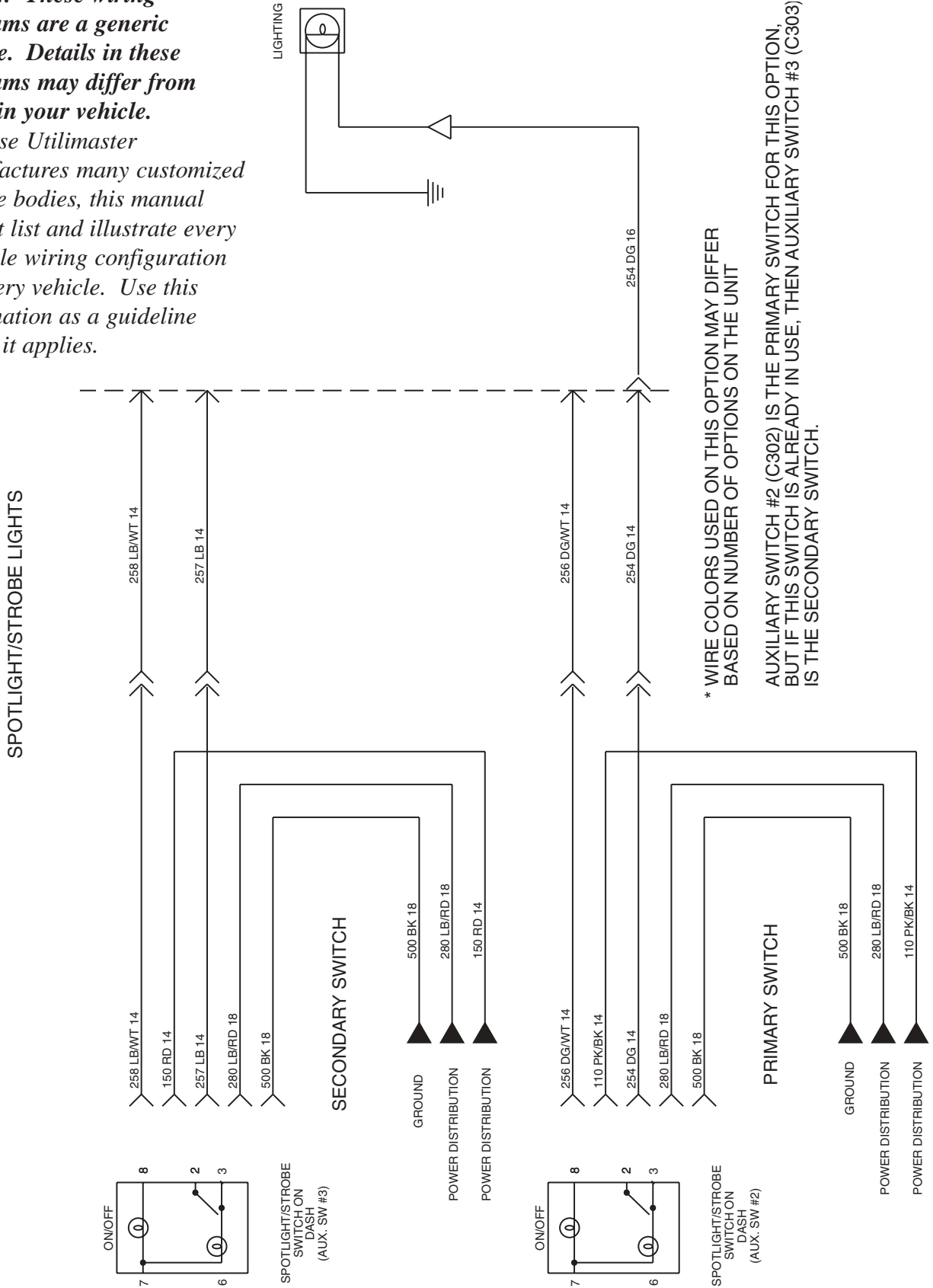
Supplemental High Mount Stop Light (SHMSL)



CHMSL 58231015a25 SHEET 25

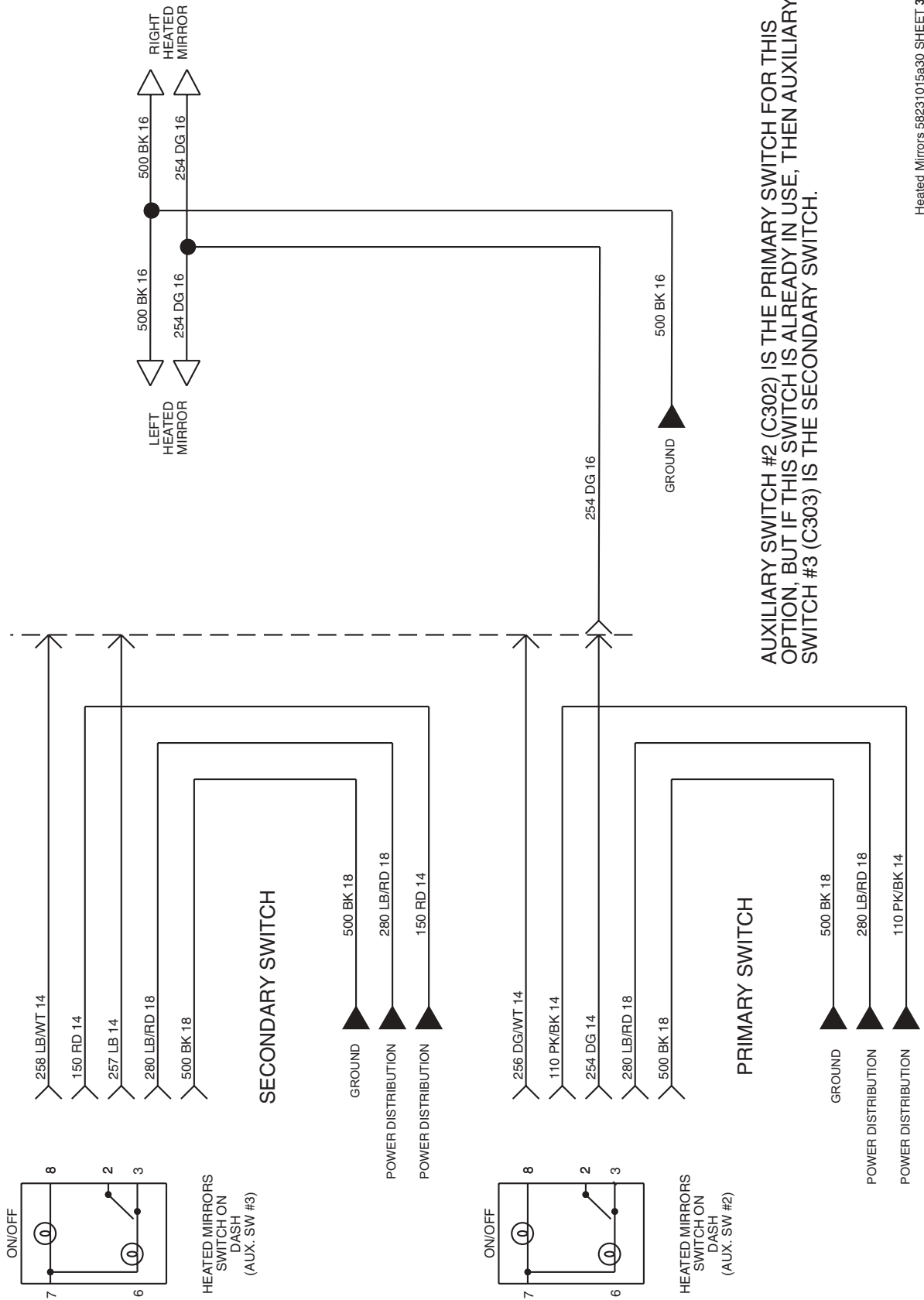
Lights, Spot, Scene, Flood, or Strobe

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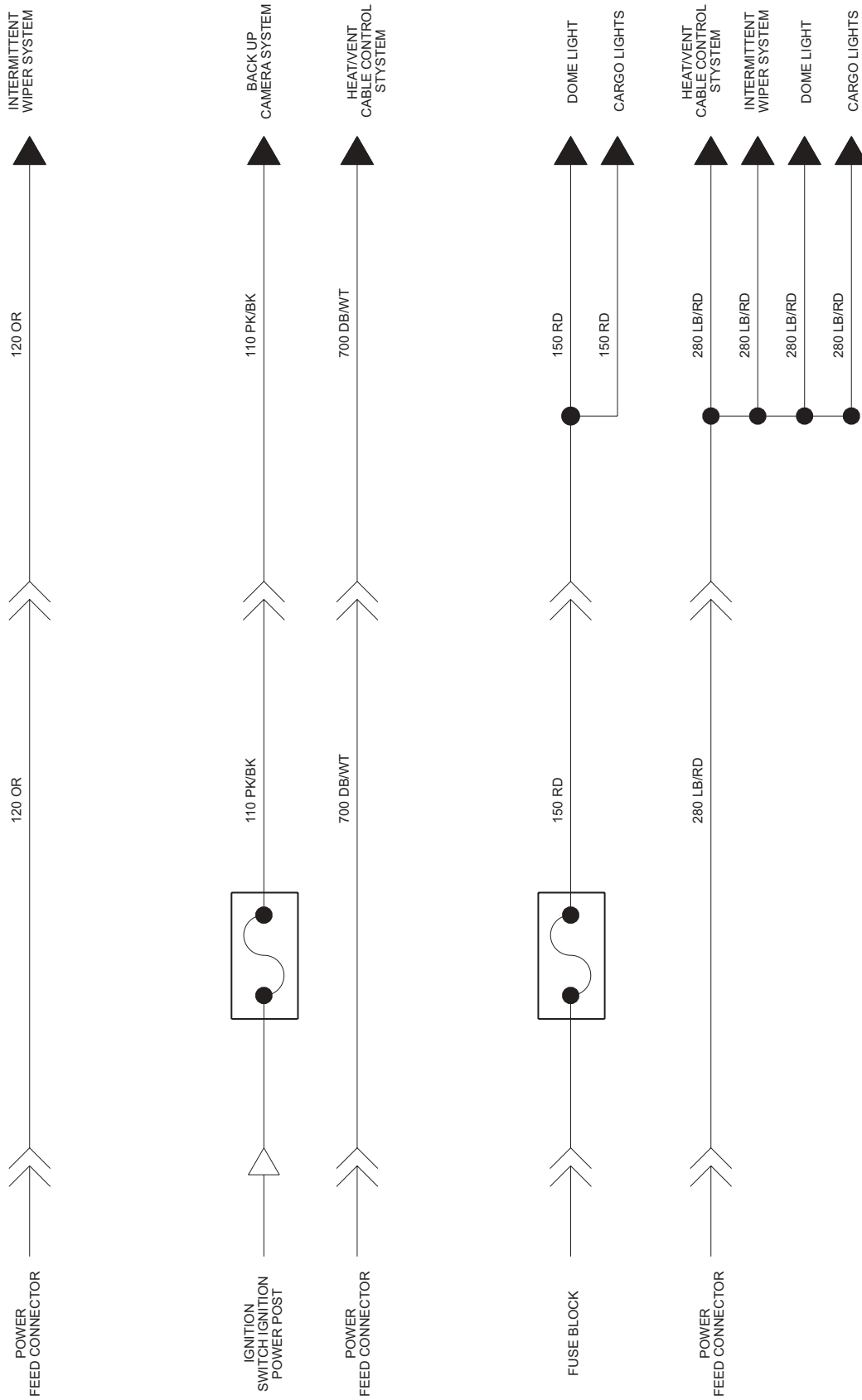
Mirrors, Heated

HEATED MIRRORS



Power Distribution

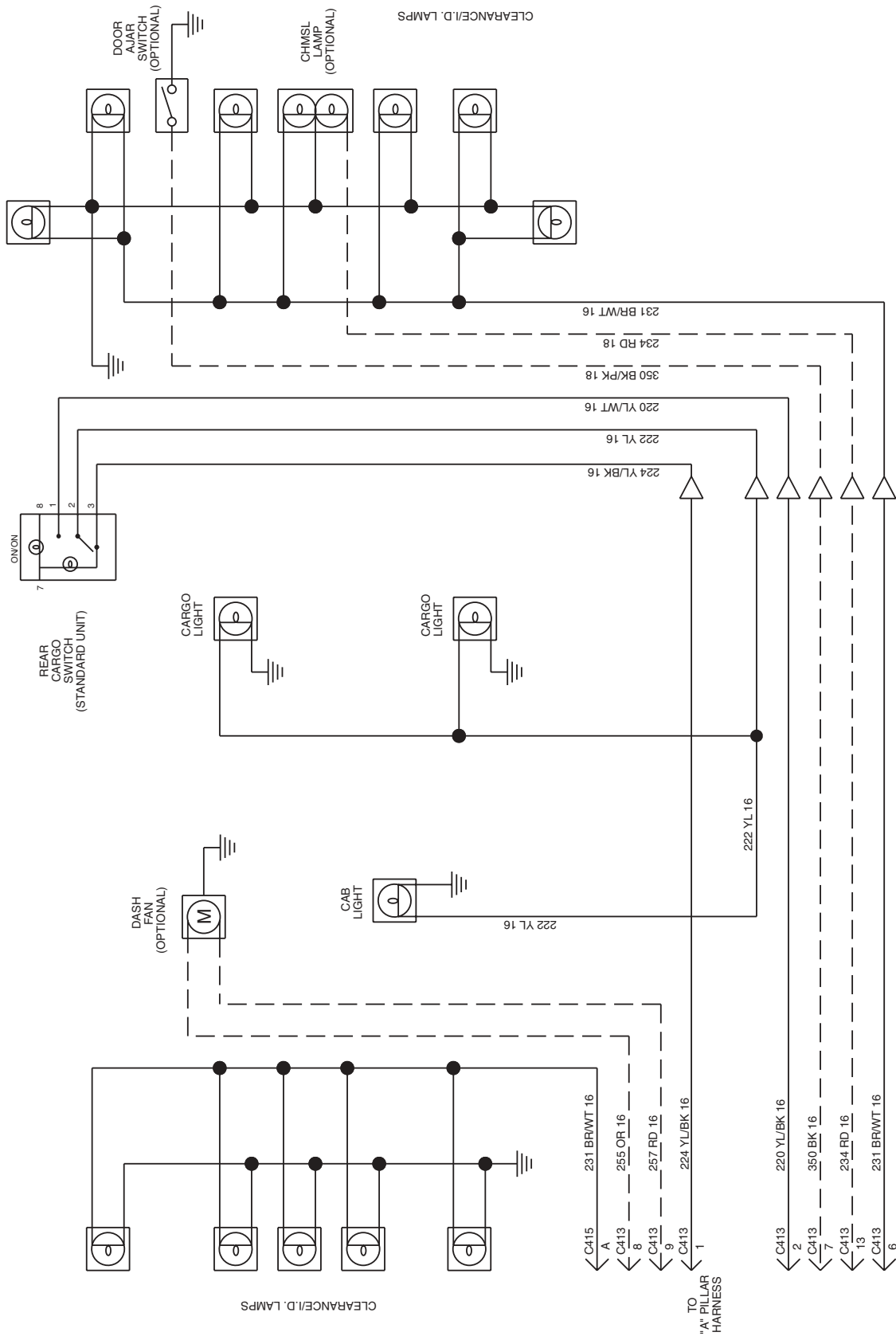
POWER DISTRIBUTION



58231252a10

Roof Wiring

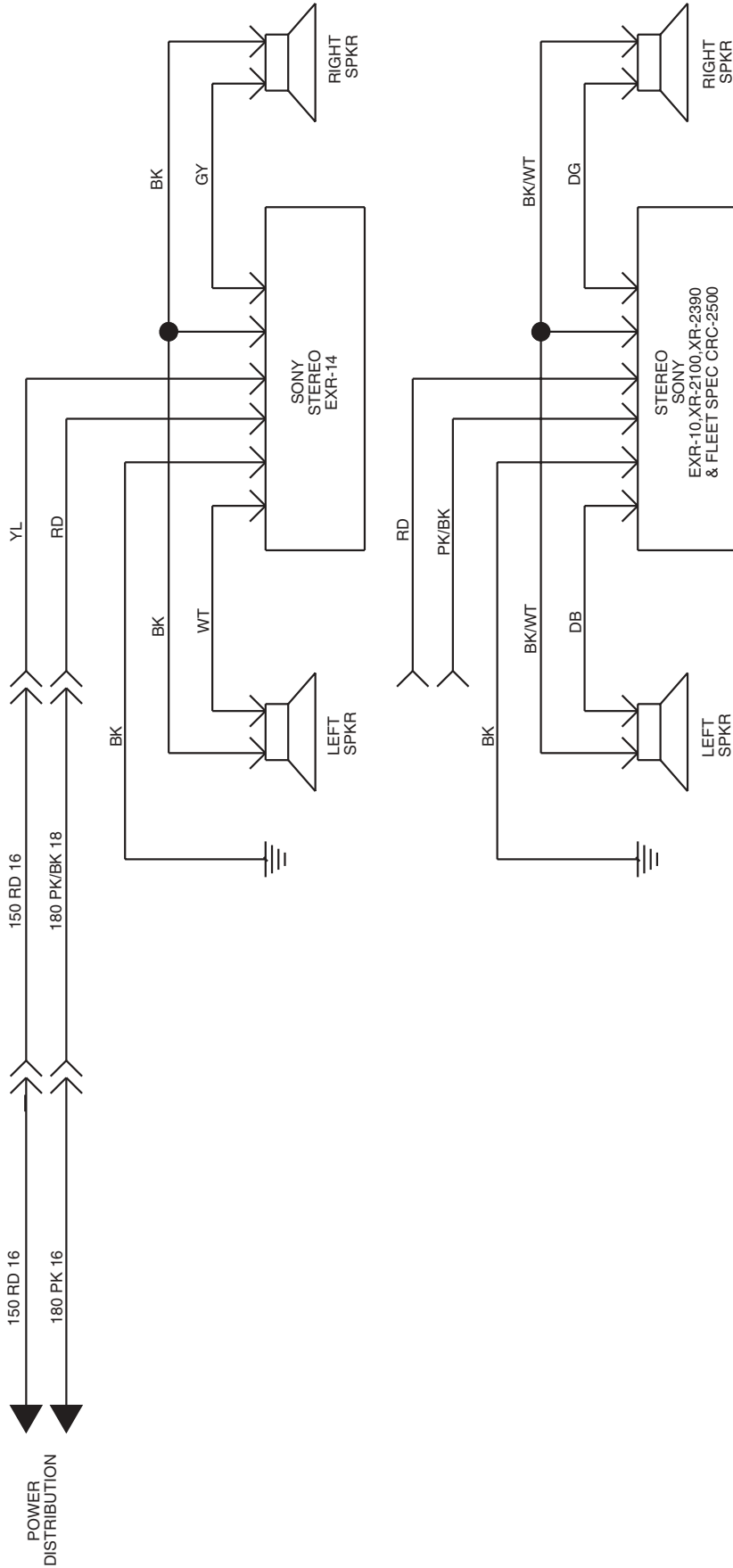
TYPICAL ROOF WIRING



--- INDICATES OPTION WIRING

Stereo System

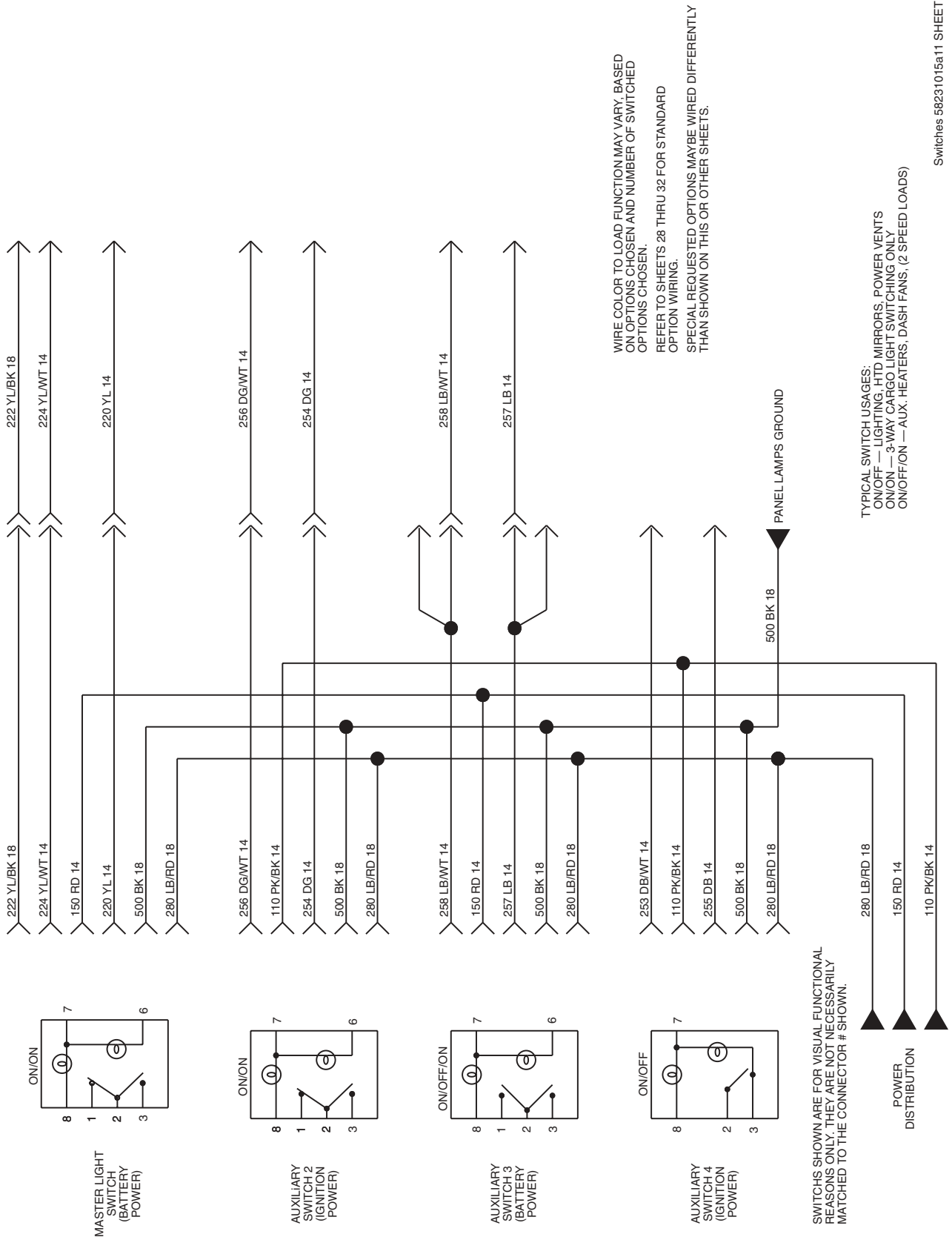
STEREO SYSTEM WIRING



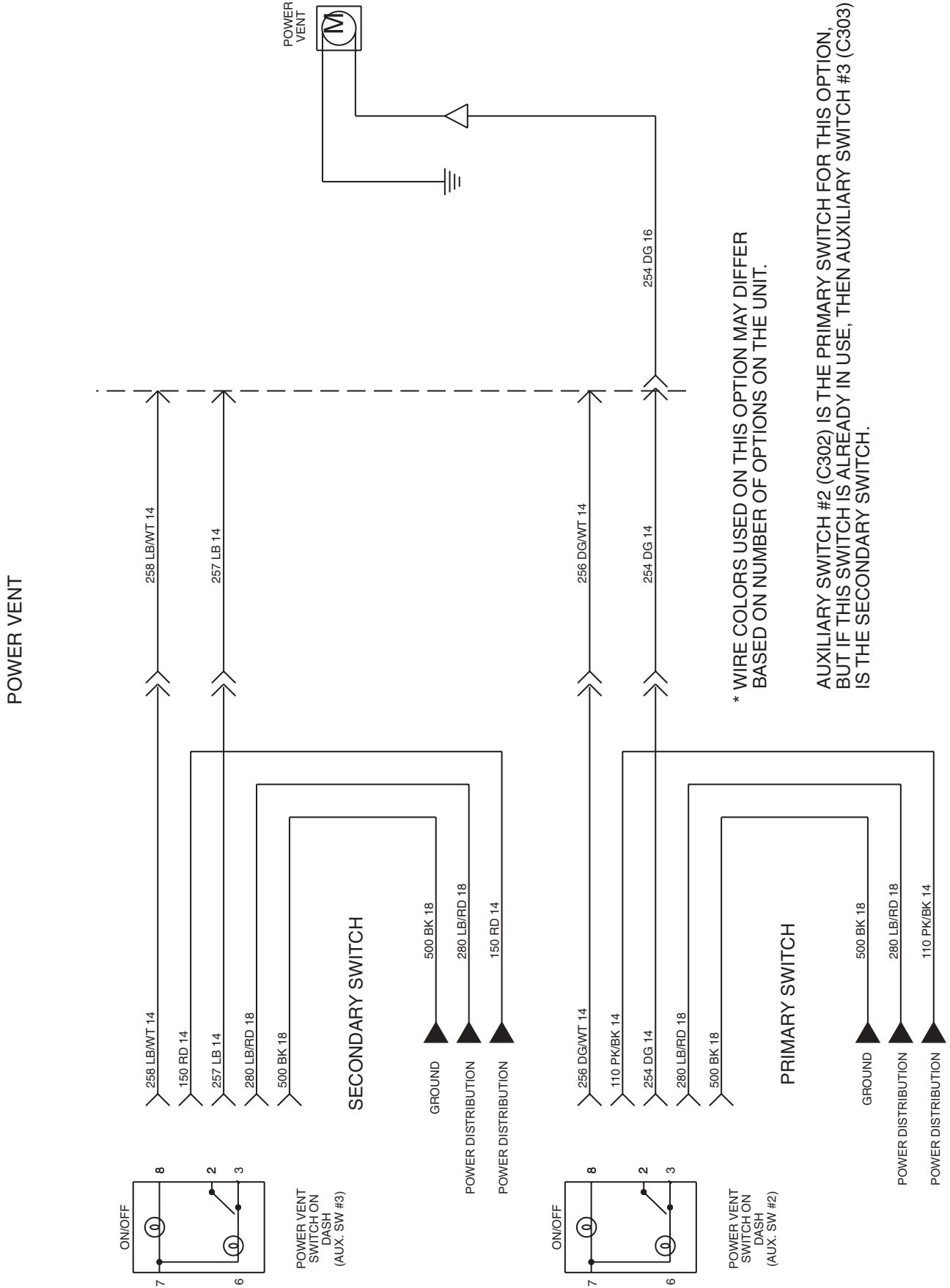
Stereo 58231015a23 SHEET 23

Switches

SWITCHES



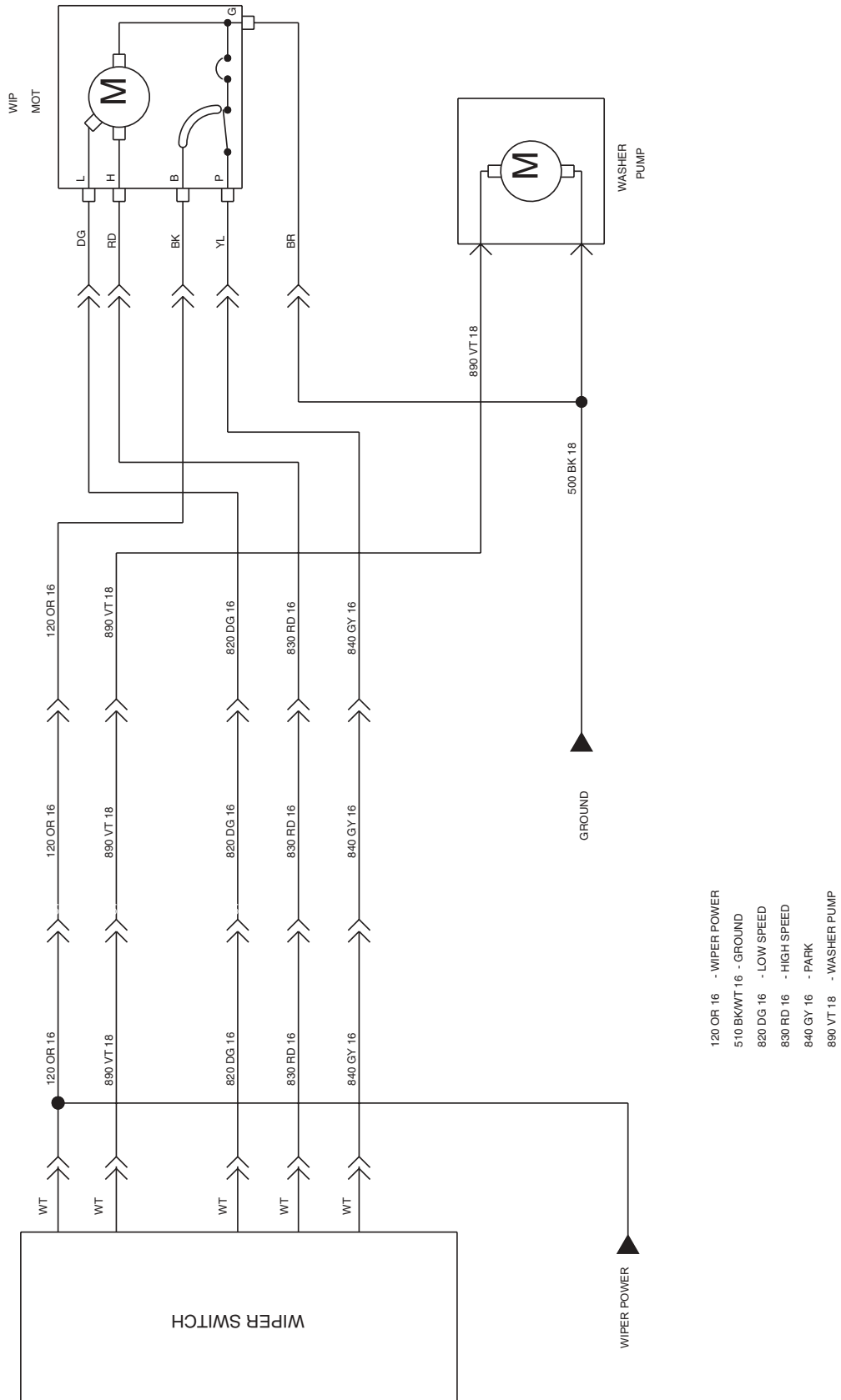
Vent, Powered



Wiper System

Standard

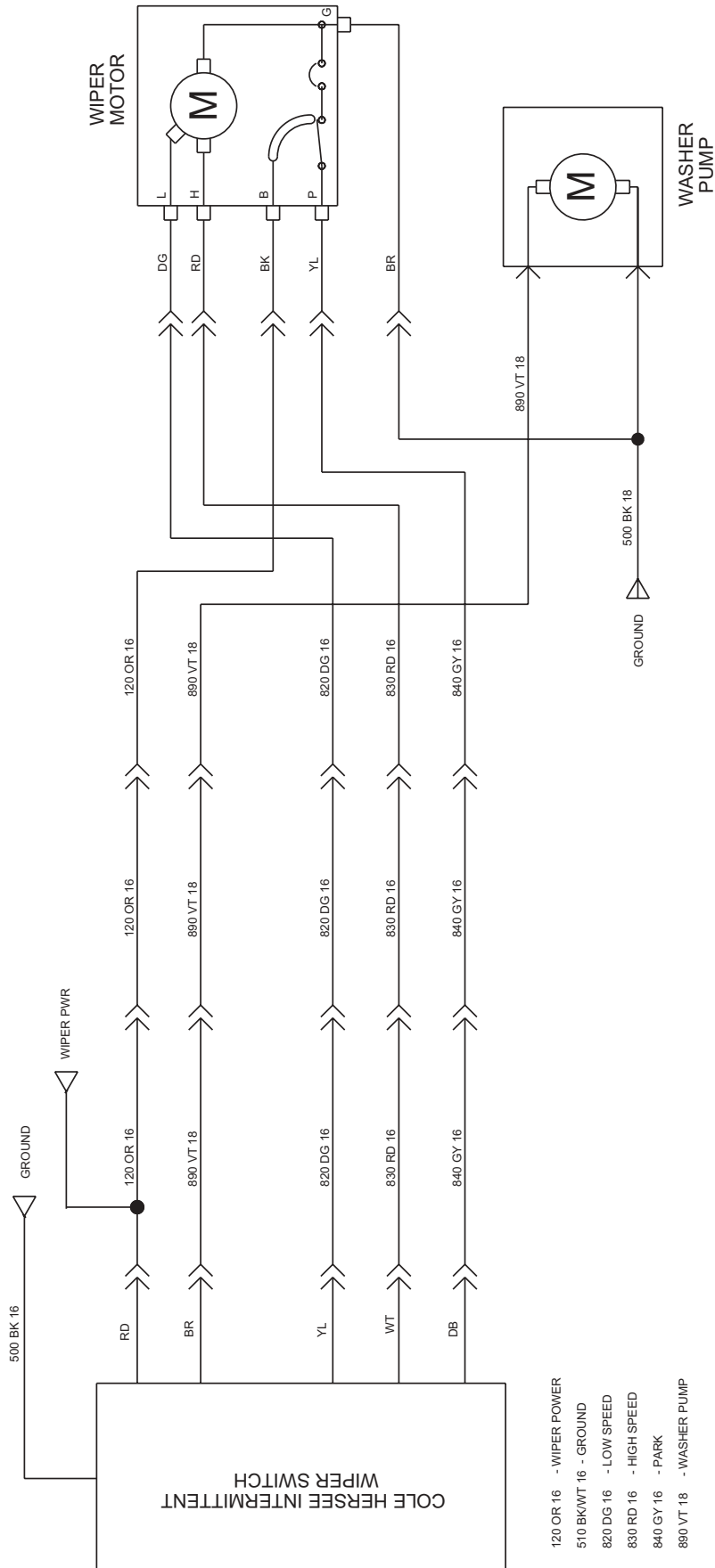
WIPER SYSTEM (STANDARD)



Wiper System (Standard) 56231015a12

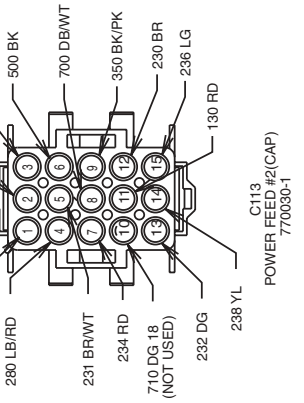
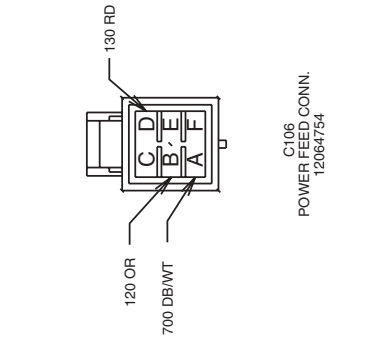
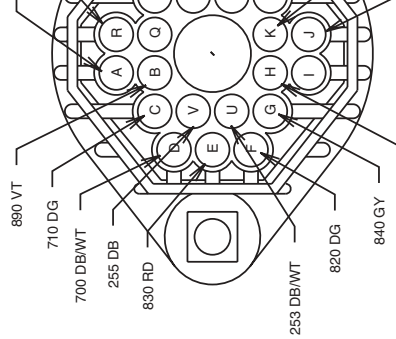
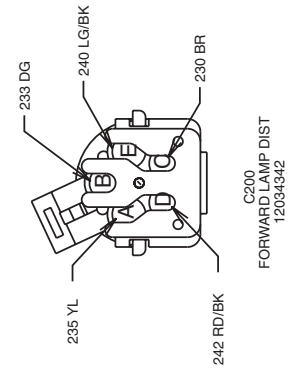
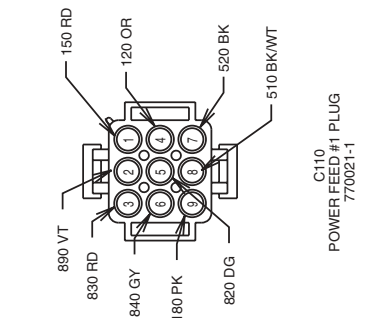
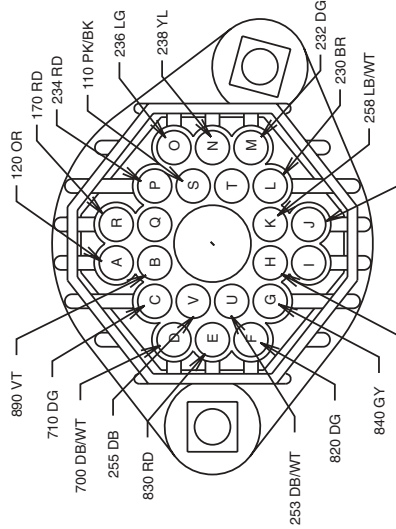
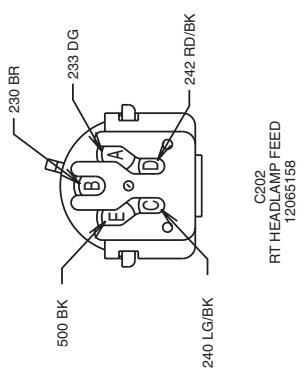
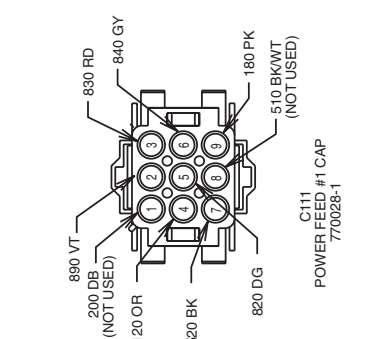
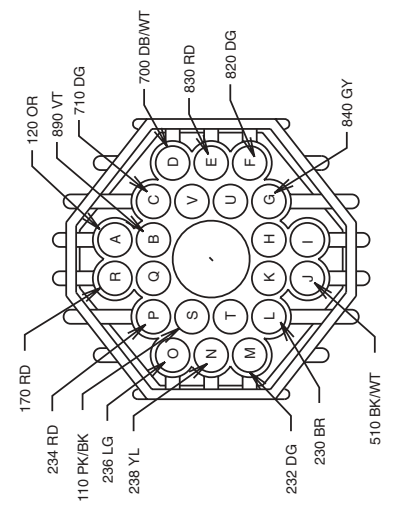
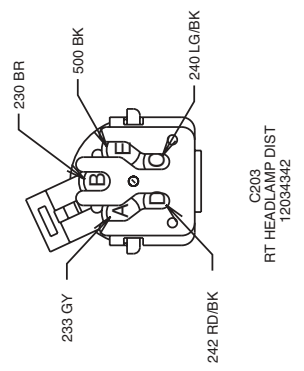
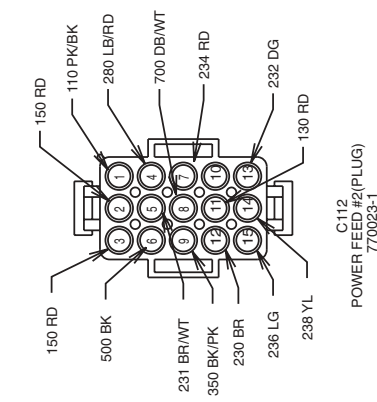
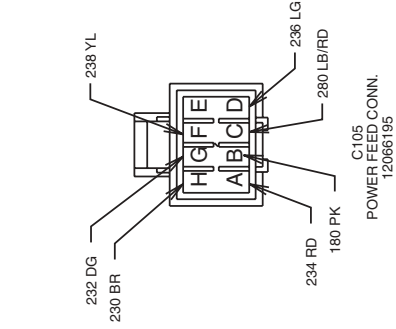
Wiper System

Intermittent Option



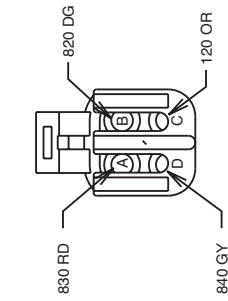
5823 1015at15x2

Connectors

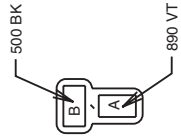


NOTE: All connectors are shown in the load (wire lead insertion) position. Connector Loading Diagrams (1 of 5) 58231015a02 SHEET 2

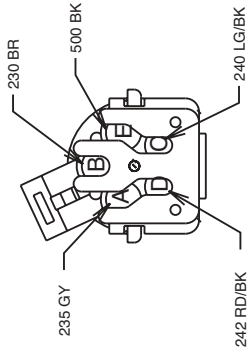
Connectors (continued)



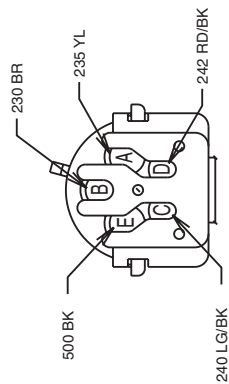
C207
WIPER MOTOR
12015798



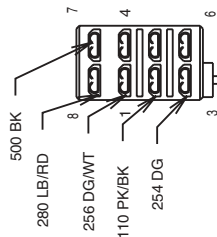
C206
WASHER PUMP
480115-1



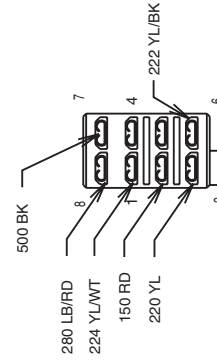
C205
LT HEADLAMP DIST
12034342



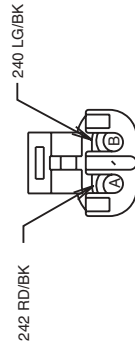
C204
LT HEADLAMP FEED
12065158



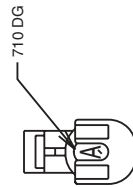
C302
AUXILIARY SW(IGNITION)
999-16716.001



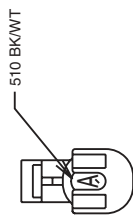
C301
AUXILIARY SW(BATTERY)
999-16716.001



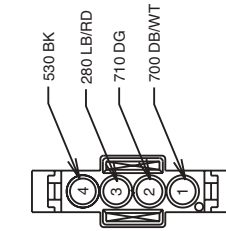
C210
DRL (DAYTIME RUNNING)
12015792



C209
A/C JUMPER
12015791

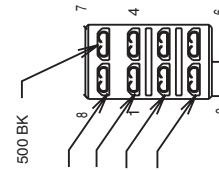


C208
WIPER MOTOR
12015791

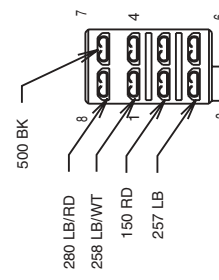


C331
HVAC CONN.(SCS)
770209-1

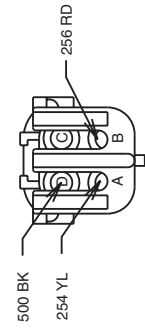
C330
HVAC CONN.
770019-1



C304
AUXILIARY SW(IGNITION)
999-16716.001



C303
AUXILIARY SW(BATTERY)
999-16716.001

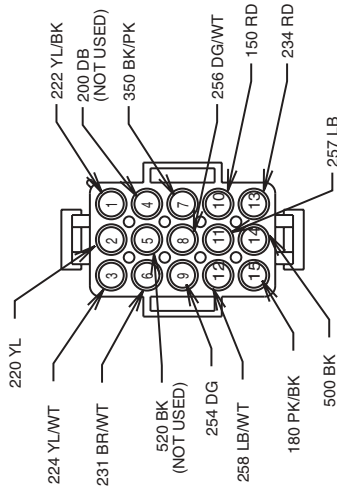


C340
AUX. HTR(SCS)
12015024

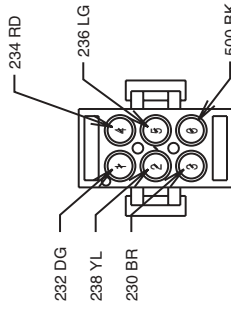
NOTE: All connectors are shown in the **load** (wire lead insertion) position.

Connector Loading Diagrams (2 of 5) 58231015a03 SHEET 3

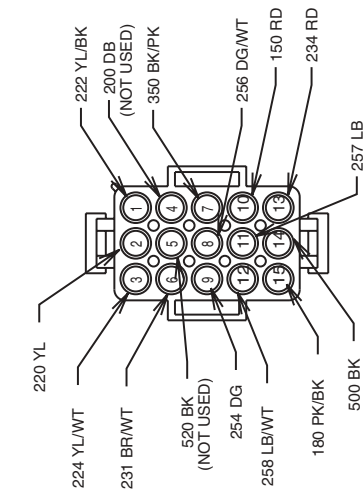
Connectors (continued)



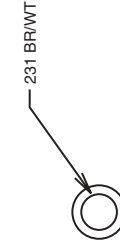
C412
"A" PILLAR(PILLAR)
770022-1



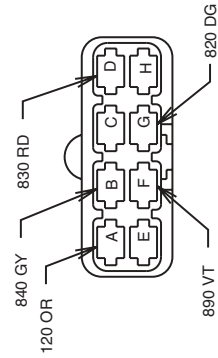
C418
INTERIOR ROUTED
REAR LIGHTING
770020-1



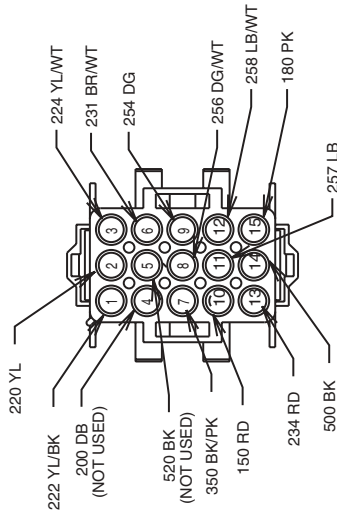
C411
"A" PILLAR(PILLAR)
770022-1



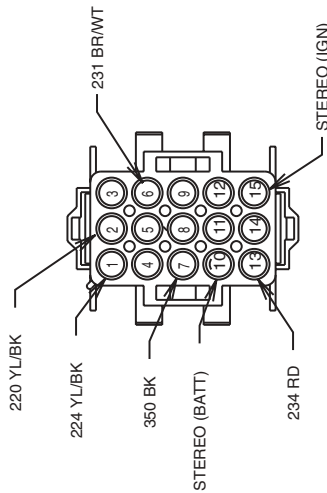
C415
"A" PILLAR(ROOF)
MOLED CONN.



C510
INTERMITTENT
WIPER SWITCH
02965972



C410
"A" PILLAR(DASH)
770029-1



C413
"A" PILLAR(ROOF)
770029-1

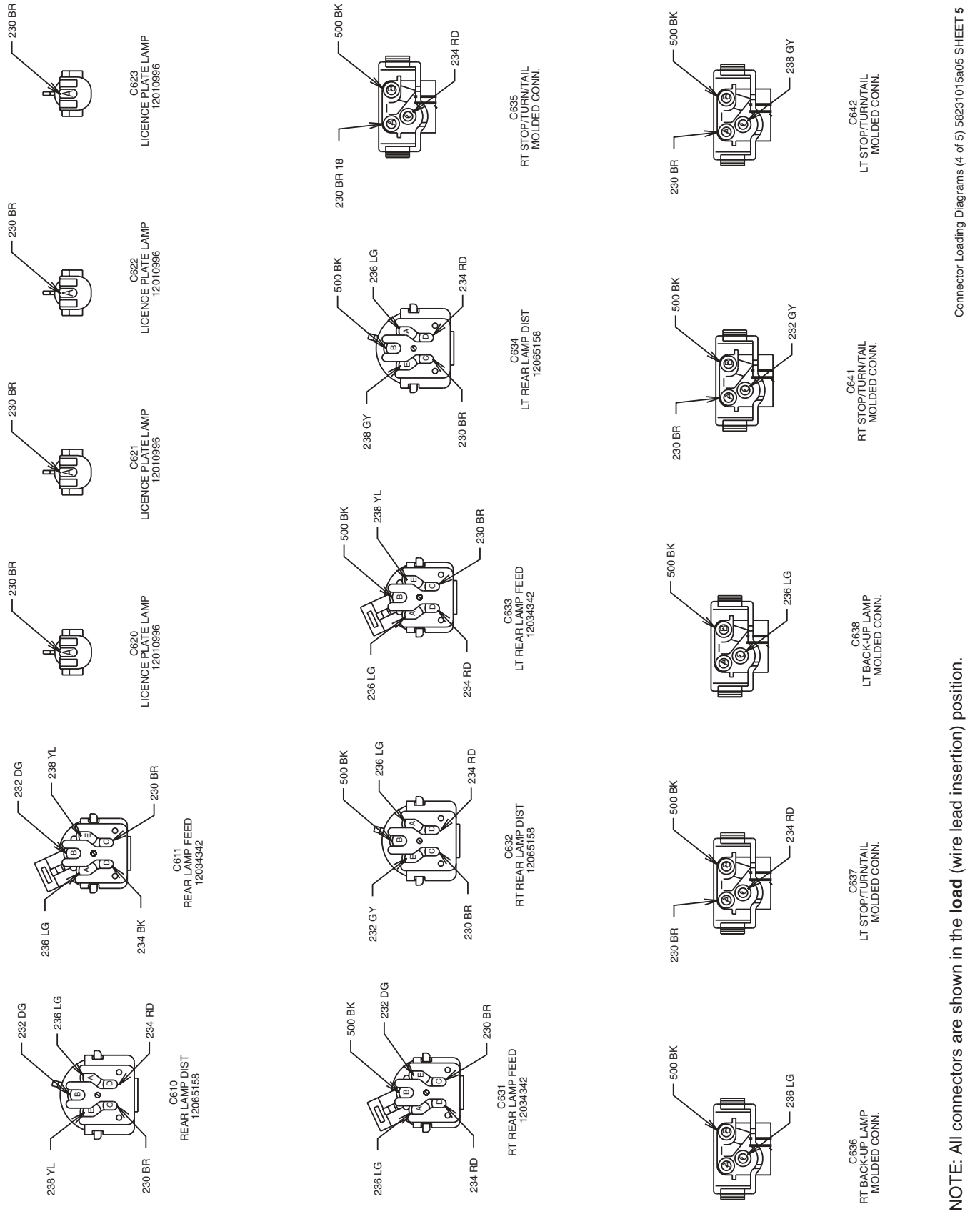


C419
INTERIOR ROUTED
REAR LIGHTING
770027-1

C510
STD WIPER SWITCH
06288539

NOTE: All connectors are shown in the **load** (wire lead insertion) position.

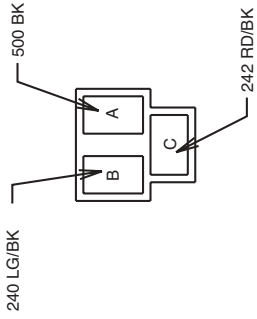
Connectors (continued)



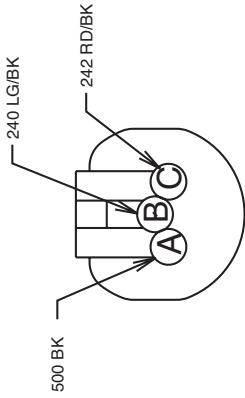
NOTE: All connectors are shown in the **load** (wire lead insertion) position.

Connector Loading Diagrams (4 of 5) 58231015a05 SHEET 5

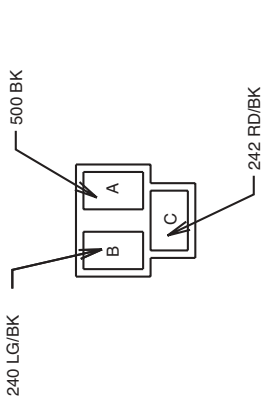
Connectors (continued)



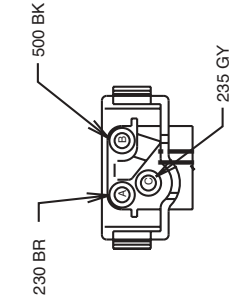
C711
LT RECT. INCAD. HDLP
12077384



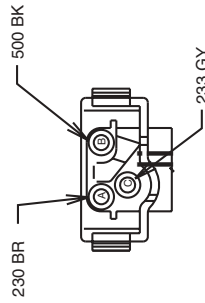
C710
RT HALOGEN HDLP
12048369



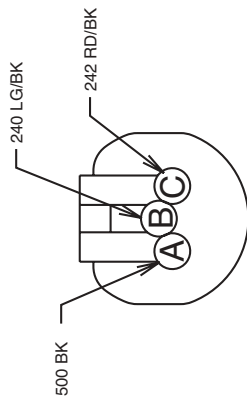
C710
RT RECT. INCAD. HDLP
12077384



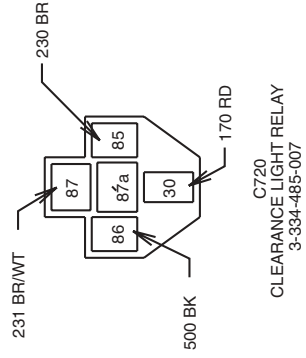
C713
LT FRONT TURN LAMP
MOLDED CONN.



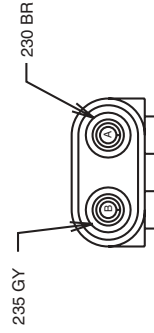
C712
RT FRONT TURN LAMP
MOLDED CONN.



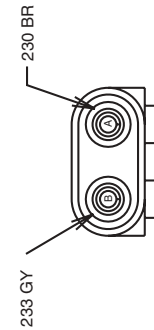
C711
LT HALOGEN HDLP
12048369



C720
CLEARANCE LIGHT RELAY
3-334-485-007



C715
LT FRONT SDMRKR LAMP
MOLDED CONN.



C714
RT FRONT SDMRKR LAMP
MOLDED CONN.

NOTE: All connectors are shown in the **load** (wire lead insertion) position.

Connector Loading Diagrams (5 of 5) 58231015a06 SHEET 6

Reporting Safety Defects

United States 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 **800-424-9393** (or **202-366-0123** in the Washington, D.C., area) 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.

Canada Only

If you believe that your Canadian-registered vehicle has a defect that could cause a crash, injury, or death, you should immediately inform Transport Canada, in addition to notifying Utilimaster.

To contact Transport Canada, call **800-333-0510** (or **613-993-9851** in the Ottawa region) or write to:

Transport Canada

Motor Vehicle Defect Investigation

PO Box 8880

Ottawa, Ontario, K1G 3J2

More Information

Download Files

Many support documents, including those described here, are downloadable (as Adobe® Acrobat® PDF files) from our award-winning 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 4.0 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). Browse our site for more information about Utilimaster and its products

Utilimaster Detailed Parts, Service, and Wiring Manuals

Find parts, routine maintenance procedures, troubleshooting, proper adjustment methods, vehicle repair, aftermarket upgrades, and much more in the Aeromaster parts, service, and wiring manuals.

ACE (Access Control and Entry) System

See the *ACE Service Manual* (P/N 03102977) for information about Access Control and Entry System operation, programming, and troubleshooting.

Vehicle Access Control System (VACS)

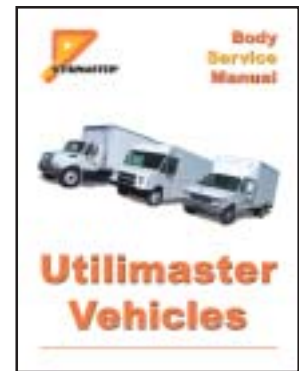
To obtain the *Vehicle Access Controls System Operation and Service Manual* (P/N 03102103) refer to your *VACS Operator's Guide* or contact Utilimaster's Customer Service Department.

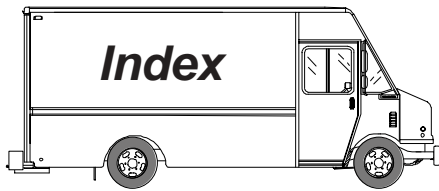
Contact Utilimaster

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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Part Number: 03101939

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