

## 2021 ELECTRICAL

### Wiring Systems and Power Management - Schematic Wiring Diagrams - Canyon, Colorado

## SCHEMATIC WIRING DIAGRAMS

### HOW TO USE ELECTRICAL WIRING SCHEMATICS

#### Information Overview

The following explains some of the key parts of the GM wiring diagrams. Included are:

- Color Abbreviations

#### Color Abbreviations

The following sequence is used when depicting wire colors:

1. Color modifier of the wire, such as light or dark (if applicable)
2. Primary color of the wire
3. Secondary color of the wire (tracer/stripe)

Wire insulation and connector body colors in schematic information are abbreviated with a two character code as listed below.

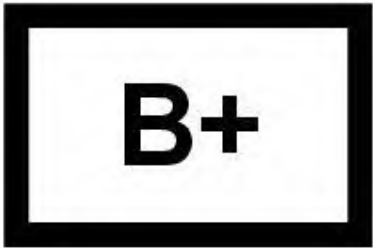
| Abbreviation    | Color   | Abbreviation | Color     |
|-----------------|---------|--------------|-----------|
| AM              | Amber   | OG           | Orange    |
| BARE            | Bare    | PK           | Pink      |
| BG              | Beige   | PU           | Purple    |
| BK              | Black   | RD           | Red       |
| BN              | Brown   | RU           | Rust      |
| BU              | Blue    | SR           | Silver    |
| CL              | Clear   | TL           | Teal      |
| CR              | Cream   | TN           | Tan       |
| CU              | Curry   | TQ           | Turquoise |
| GD              | Gold    | VT           | Violet    |
| GN              | Green   | WH           | White     |
| GY              | Gray    | YE           | Yellow    |
| NA              | Natural | -            | -         |
| Color Modifiers |         |              |           |
| L               | Light   | D            | Dark      |

Additionally, industry standard cable types are not identified by color, but are listed by cable type as follows:

| Abbreviation | Cable Type                           |
|--------------|--------------------------------------|
| COAX         | Coax Cable                           |
| ENET         | Ethernet                             |
| FW           | Flat Wire                            |
| HDMI         | High Definition Multimedia Interface |
| LDVS         | Low-voltage Differential Signaling   |
| TWINAX       | Twinax Cable                         |
| USB          | Universal Serial Bus                 |

### ELECTRICAL SCHEMATIC SYMBOLS

Voltage Indicators

| Symbol                                                                            | Description     |
|-----------------------------------------------------------------------------------|-----------------|
|  | Battery Voltage |
|                                                                                   |                 |

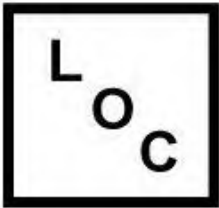
| Symbol                                                                              | Description                          |
|-------------------------------------------------------------------------------------|--------------------------------------|
| <div data-bbox="443 544 922 790"><div data-bbox="469 566 896 768">IGN 0</div></div> | Ignition<br>Switch - Off<br>Position |
|                                                                                     |                                      |

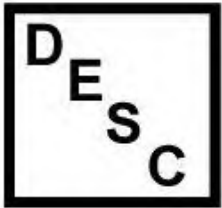
| Symbol                                                                              | Description                                   |
|-------------------------------------------------------------------------------------|-----------------------------------------------|
| <div data-bbox="443 544 922 790"><div data-bbox="469 566 896 768">IGN I</div></div> | Ignition<br>Switch -<br>Accessory<br>Position |
|                                                                                     |                                               |

| Symbol                                                                            | Description                             |
|-----------------------------------------------------------------------------------|-----------------------------------------|
|  | Ignition<br>Switch -<br>Run<br>Position |
|                                                                                   |                                         |

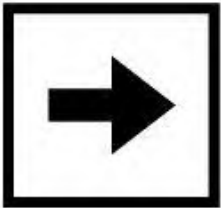
| Symbol                                                                            | Description                               |
|-----------------------------------------------------------------------------------|-------------------------------------------|
|  | Ignition<br>Switch -<br>Start<br>Position |

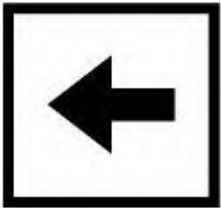
General Icons

| Symbol                                                                            | Description                                                                                                                                       |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>Master<br/>Component List<br/>Icon<br/>This icon is used<br/>on the schematic<br/>to link to the<br/>Master Electrical<br/>Component List.</p> |
|                                                                                   |                                                                                                                                                   |

| Symbol                                                                            | Description                                                                                                                                      |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>Description and Operation Icon<br/>This icon is used on the schematic to link to the Description and Operation of that particular system.</p> |
|                                                                                   |                                                                                                                                                  |

| Symbol                                                                                                                                                                                                                                                                                                            | Description                                                                                                                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>The icon consists of a stylized computer monitor with a double-headed vertical arrow inside the screen area, and a wrench positioned below the monitor. The entire icon is set against a light gray circular background.</p> | <p>Computer Programming Icon<br/>This icon is used on the schematic to link to Control Module References, which identifies which components need programming upon replacement.</p> |
|                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                    |

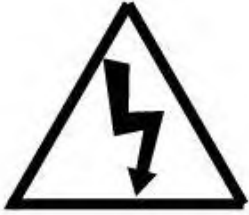
| Symbol                                                                            | Description                                                                                                                                       |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>Next Schematic<br/>Page Icon</p> <p>This icon is used<br/>on the schematic<br/>to navigate to the<br/>next schematic in<br/>the subsystem.</p> |
|                                                                                   |                                                                                                                                                   |

| Symbol                                                                            | Description                                                                                                                           |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>Previous Schematic Page Icon</p> <p>This icon is used on the schematic to navigate to the previous schematic in the subsystem.</p> |
|                                                                                   |                                                                                                                                       |

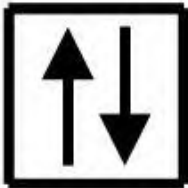
| Symbol                                                                            | Description                                                                                                                                                                                                                                |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>Supplemental Inflatable Restraint (SIR) or Supplemental Restraint System (SRS) Icon</p> <p>This icon is used to alert the technician that the system contains SIR/SRS components that require certain precautions before servicing.</p> |
|                                                                                   |                                                                                                                                                                                                                                            |

| Symbol                                                                            | Description                                                                                                                                     |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>Information Icon<br/>This icon is used to alert the technician that there is additional information that will aid in servicing a system.</p> |
|                                                                                   |                                                                                                                                                 |

| Symbol                                                                            | Description                                                                                                                                                                                                                                                                          |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>Danger Icon<br/>This icon is intended to alert the technician that a component within the system contains labeling with the same icon.</p> <p>This icon is used when a source component has potential for 60 volts DC or greater or has potential for 42 volts AC or greater.</p> |
|                                                                                   |                                                                                                                                                                                                                                                                                      |

| Symbol                                                                            | Description                                                                                                                                                                                                                                                                                    |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>High Voltage Icon</p> <p>This icon is intended to alert the technician that a component within the system contains labeling with the same icon.</p> <p>This icon is used when a component/circuit has potential for 60 volts DC or greater or has potential for 42 volts AC or greater.</p> |
|                                                                                   |                                                                                                                                                                                                                                                                                                |

| Symbol                                                                            | Description                                                                                                                                                                                                                                       |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>Caution Icon</p> <p>This icon is used to advise the technician to use caution when servicing this component.</p> <p>This icon may be used when a component/circuit has a voltage range potential between 30-60 volts DC or 15-42 volts AC.</p> |
|                                                                                   |                                                                                                                                                                                                                                                   |

| Symbol                                                                            | Description                                                                                                                                                                                                                                                    |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>Functional Serial Data Communication</p> <p>This icon is used to show the technician that the serial data circuit detail is shown incomplete. It also provides an active link to the Data Communication Schematics where the circuit is shown complete.</p> |

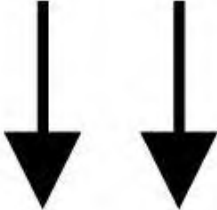
Switch Position Icons

| Symbol                                                                             | Description       |
|------------------------------------------------------------------------------------|-------------------|
|  | Generic Up Arrows |
|                                                                                    |                   |

| Symbol                                                                             | Description               |
|------------------------------------------------------------------------------------|---------------------------|
|  | Generic<br>Down<br>Arrows |
|                                                                                    |                           |

| Symbol                                                                                                                                                                                                                                                       | Description            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| <br><br> | Generic<br>Left Arrows |
|                                                                                                                                                                                                                                                              |                        |

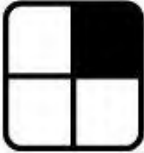
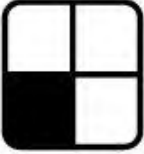
| Symbol                                                                                                                                                                                                                                                       | Description                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| <br><br> | Generic<br>Right<br>Arrows |
|                                                                                                                                                                                                                                                              |                            |

| Symbol                                                                            | Description                          |
|-----------------------------------------------------------------------------------|--------------------------------------|
|  | Generic<br>Express<br>Down<br>Arrows |
|                                                                                   |                                      |

| Symbol                                                                            | Description |
|-----------------------------------------------------------------------------------|-------------|
|  | On/Off Icon |
|                                                                                   |             |

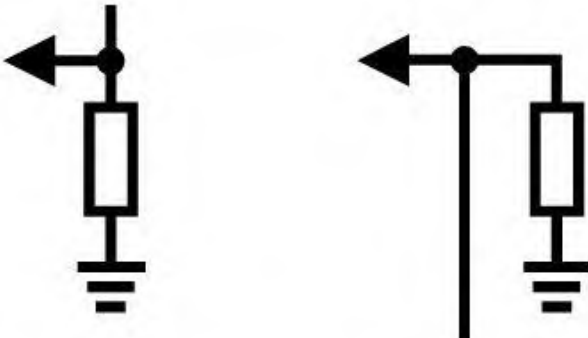
| Symbol                                                                            | Description          |
|-----------------------------------------------------------------------------------|----------------------|
|  | Generic<br>Lock Icon |
|                                                                                   |                      |

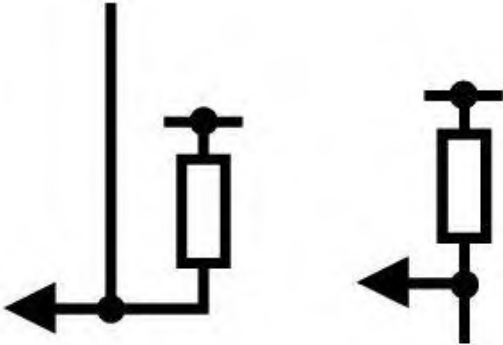
| Symbol                                                                            | Description            |
|-----------------------------------------------------------------------------------|------------------------|
|  | Generic<br>Unlock Icon |
|                                                                                   |                        |

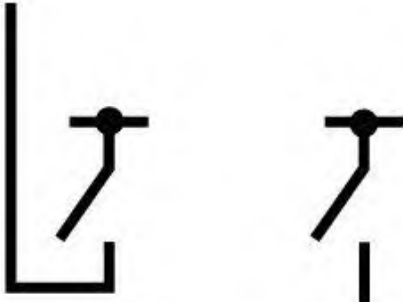
| Symbol                                                                                                                                                                                                                                                                                                                                  | Description                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
|     | Generic Window Switch Positions - 4 Door |
|                                                                                                                                                                                                                                                                                                                                         |                                          |

| Symbol                                                                            | Description                              |
|-----------------------------------------------------------------------------------|------------------------------------------|
|  | Generic Window Switch Positions - 2 Door |

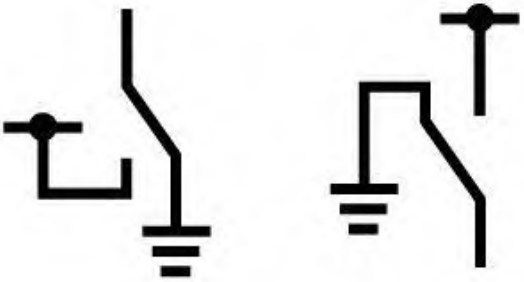
Module Circuit Function Icons

| Symbol                                                                            | Description                 |
|-----------------------------------------------------------------------------------|-----------------------------|
|  | I/O Pull-Down Resistors (-) |
|                                                                                   |                             |

| Symbol                                                                            | Description               |
|-----------------------------------------------------------------------------------|---------------------------|
|  | I/O Pull-Up Resistors (+) |
|                                                                                   |                           |

| Symbol                                                                            | Description                    |
|-----------------------------------------------------------------------------------|--------------------------------|
|  | I/O High-Side Drive Switch (+) |
|                                                                                   |                                |

| Symbol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Description                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
|  <p>The image contains two electrical symbols for low-side drive switches. The left symbol depicts a switch with one terminal connected to ground (represented by three horizontal lines of decreasing width) and the other terminal connected to a load (represented by a vertical line). The right symbol shows a switch with one terminal connected to a load and the other terminal connected to ground. Both symbols are rendered in black lines on a white background.</p> | I/O Low-Side Drive Switch (+) |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                               |

| Symbol                                                                                             | Description                          |
|----------------------------------------------------------------------------------------------------|--------------------------------------|
|  <p>mcx30.com</p> | I/O<br>Bidirectional<br>Switch (+/-) |
|                                                                                                    |                                      |

| Symbol                                                                                                                                                                                                                                                                                        | Description                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
|  <p>A black line drawing of a pulse-width modulation (PWM) signal. It consists of a horizontal line with four rectangular pulses of equal width and height. The pulses are evenly spaced along the line.</p> | Pulse-Width Modulation Symbol |
|                                                                                                                                                                                                                                                                                               |                               |

| Symbol                                    | Description     |
|-------------------------------------------|-----------------|
| <div data-bbox="630 616 750 696">B+</div> | Battery Voltage |
|                                           |                 |

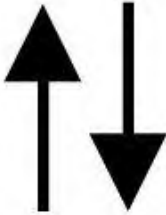
| Symbol                                     | Description                                                   |
|--------------------------------------------|---------------------------------------------------------------|
| <div data-bbox="603 613 769 698">IGN</div> | <div data-bbox="1283 678 1385 748">Ignition<br/>Voltage</div> |
|                                            |                                                               |

| Symbol        | Description       |
|---------------|-------------------|
| <div>5V</div> | Voltage Reference |
|               |                   |

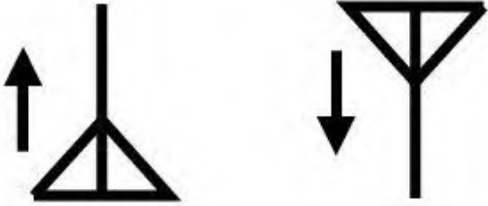
| Symbol           | Description |
|------------------|-------------|
| <div>5V AC</div> | A/C Voltage |
|                  |             |

| Symbol                                                                             | Description      |
|------------------------------------------------------------------------------------|------------------|
|  | Low<br>Reference |
|                                                                                    |                  |

| Symbol                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Description |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
|  <p>The image displays two standard electrical ground symbols. The symbol on the left consists of a single vertical line connected to three parallel horizontal lines at its base. The symbol on the right is a U-shaped line connected to three parallel horizontal lines at its base. A large, light gray watermark 'mcx30.com' is oriented diagonally across the center of the table.</p> | Ground      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |

| Symbol                                                                            | Description |
|-----------------------------------------------------------------------------------|-------------|
|  | Serial Data |
|                                                                                   |             |

| Symbol                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Description            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
|  <p>The symbol consists of two parts. On the left, a small downward-pointing arrow is positioned to the left of a larger downward-pointing arrowhead. On the right, a small upward-pointing arrow is positioned to the left of a larger upward-pointing arrowhead. A faint, diagonal watermark reading 'mcx30.com' is visible across the background of the table.</p> | Antenna<br>Signal - In |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                        |

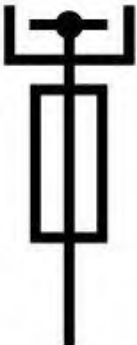
| Symbol                                                                                                                                                                                                                                                                                                                                                                           | Description             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
|  <p>The image contains two antenna symbols. The left symbol consists of a vertical line connected to a horizontal base with two diagonal lines forming a triangle, with an upward-pointing arrow to its left. The right symbol is identical but with a downward-pointing arrow to its left.</p> | Antenna<br>Signal - Out |
|                                                                                                                                                                                                                                                                                                                                                                                  |                         |

| Symbol                                                                            | Description |
|-----------------------------------------------------------------------------------|-------------|
|  | Brake Apply |
|                                                                                   |             |

| Symbol                                                                            | Description |
|-----------------------------------------------------------------------------------|-------------|
|  | Bulb Out    |

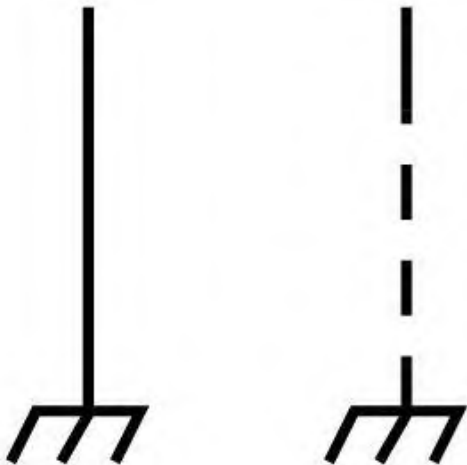
Harness Components

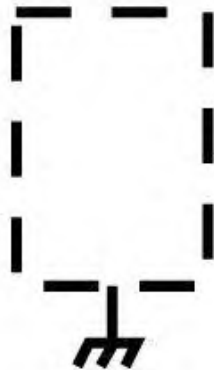
| Symbol                                                                            | Description |
|-----------------------------------------------------------------------------------|-------------|
|  | Fuse        |
|                                                                                   |             |

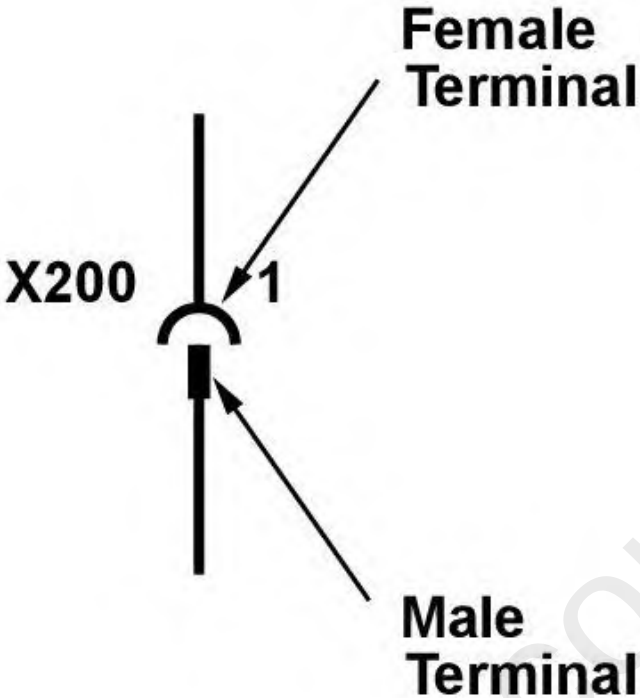
| Symbol                                                                                                                                                                                | Description                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| <p data-bbox="576 387 783 618"><b>KR73</b><br/><b>Ignition</b><br/><b>Main</b><br/><b>Relay</b></p>  | <p data-bbox="1283 663 1437 763">Fuse<br/>Supplied by<br/>a Relay</p> |
|                                                                                                                                                                                       |                                                                       |

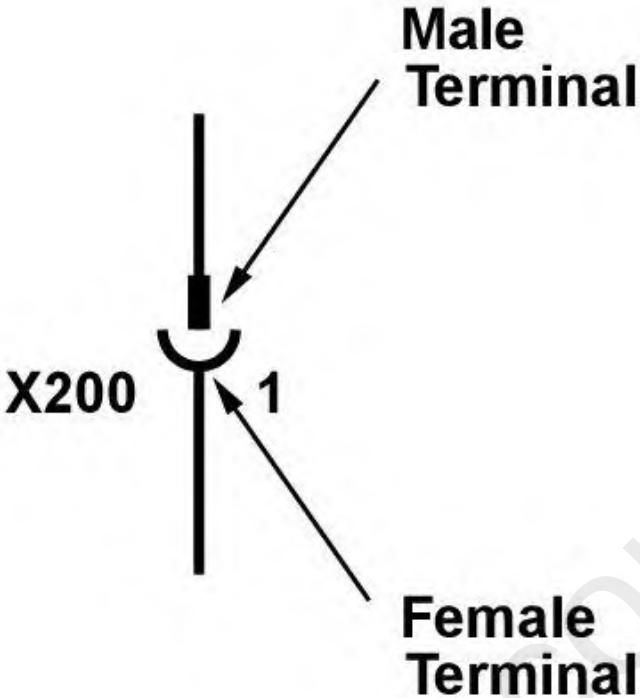
| Symbol                                                                                                                                                                                                                                                                                                          | Description     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
|  <p>The symbol for a circuit breaker is a vertical line with a diagonal line crossing it at an angle, and a small 'x' mark at the intersection. This symbol is used to represent a circuit breaker in electrical diagrams.</p> | Circuit Breaker |
|                                                                                                                                                                                                                                                                                                                 |                 |

| Symbol                                                                            | Description  |
|-----------------------------------------------------------------------------------|--------------|
|  | Fusible Link |
|                                                                                   |              |

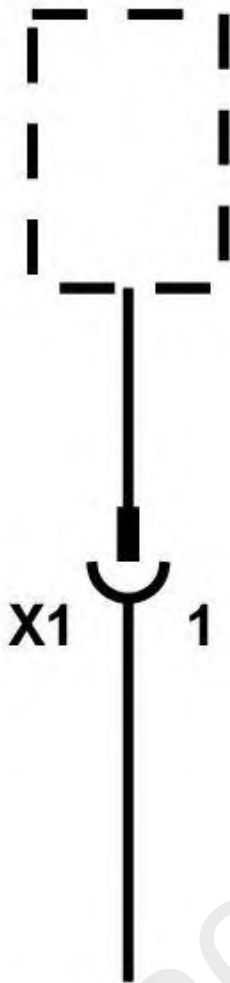
| Symbol                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Description |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
|  <p>The image displays two standard electrical ground symbols. The symbol on the left is a solid vertical line, while the symbol on the right is a dashed vertical line. Both symbols feature three short, parallel horizontal lines at their base, which are slanted at approximately 45 degrees. These symbols are commonly used in circuit diagrams to represent a connection to ground.</p> | Ground      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |

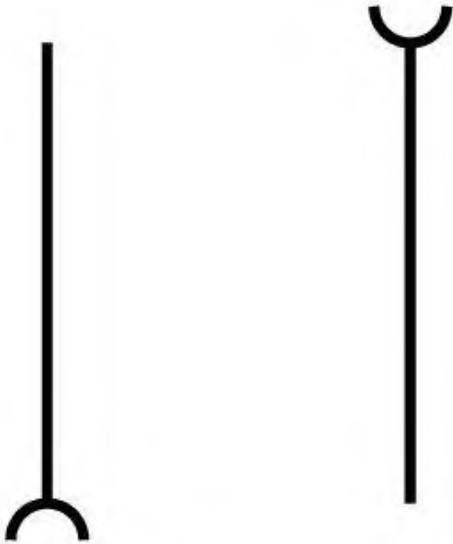
| Symbol                                                                            | Description    |
|-----------------------------------------------------------------------------------|----------------|
|  | Case<br>Ground |
|                                                                                   |                |

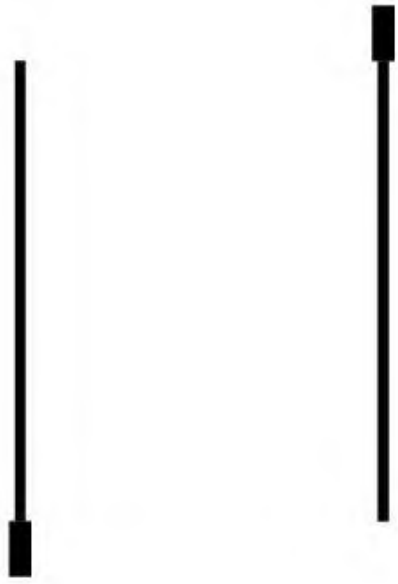
| Symbol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Description                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
|  <p>The symbol depicts an inline harness connector, identified by the label <b>X200</b>. It consists of a vertical line representing the harness. At the top of this line is a semi-circular shape labeled <b>Female Terminal</b> with an arrow pointing to it. A small number <b>1</b> is positioned next to the female terminal. At the bottom of the vertical line is a rectangular shape labeled <b>Male Terminal</b> with an arrow pointing to it.</p> | Inline<br>Harness<br>Connector |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                |

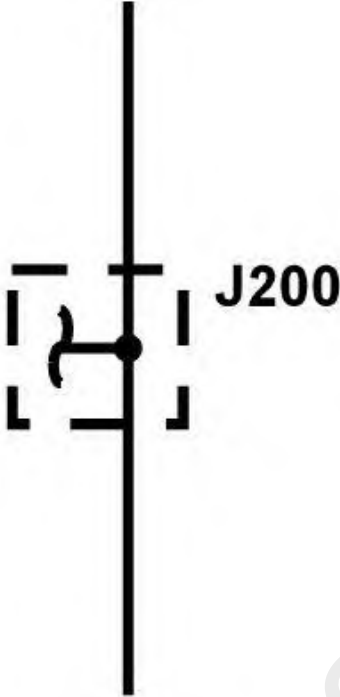
| Symbol                                                                                                                                                                                                                                                                                                      | Description                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
|  <p data-bbox="379 683 513 739"><b>X200</b></p> <p data-bbox="778 324 1021 436"><b>Male<br/>Terminal</b></p> <p data-bbox="778 907 1021 1019"><b>Female<br/>Terminal</b></p> <p data-bbox="638 683 662 739"><b>1</b></p> | Inline<br>Harness<br>Connector |
|                                                                                                                                                                                                                                                                                                             |                                |

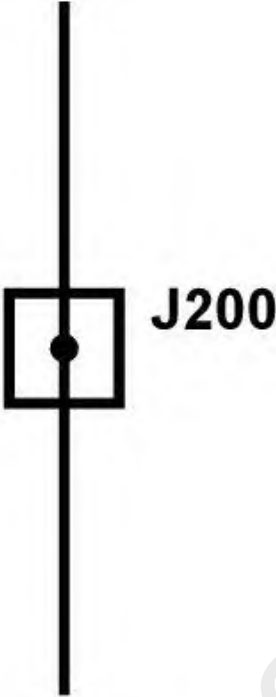
| Symbol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Description           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
|  <p>The diagram illustrates a pigtail connection symbol. It features a vertical solid line at the top, which terminates in a semi-circular arc. To the left of this arc is the label 'X1', and to the right is the label '1'. Below the arc is a small solid vertical rectangle, followed by another vertical solid line. This line then turns 90 degrees to the right and continues as a dashed line, forming the right side of a square. The bottom and left sides of the square are also represented by dashed lines, meeting at a bottom-left corner. A large, light gray watermark 'mcx30.com' is oriented diagonally across the lower half of the table.</p> | Pigtail<br>Connection |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       |

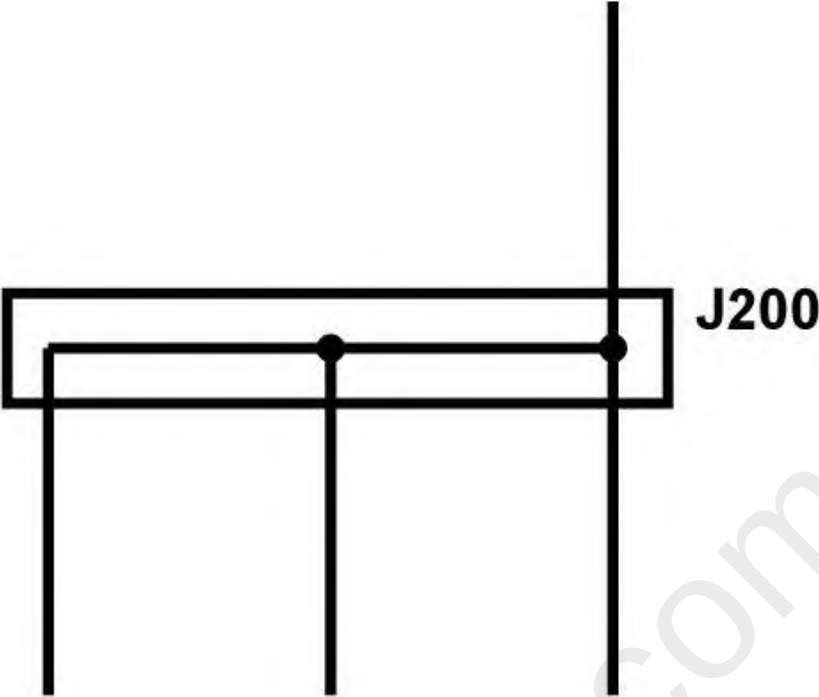
| Symbol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Description        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
|  <p>The symbol depicts a vertical line representing a wire. At the bottom, it terminates in a semi-circular hook. To the left of this hook is the label 'X1', and to the right is the label '1'. Above the hook, the vertical line continues upwards, passing through a small rectangular block, and then connects to a dashed rectangular box. A horizontal line segment is positioned just above the rectangular block, intersecting the vertical line.</p> | Pigtail Connection |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                    |

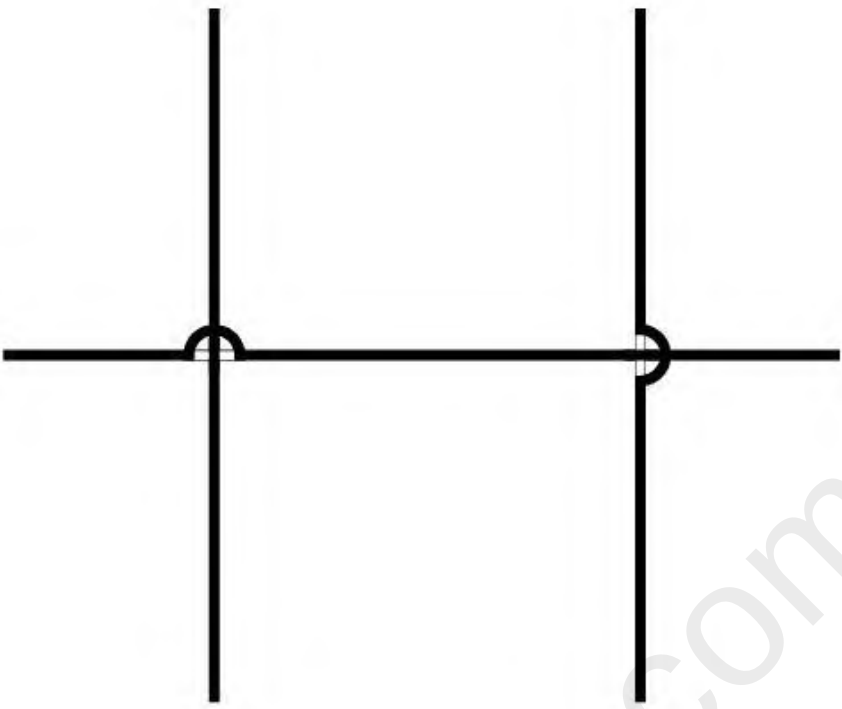
| Symbol                                                                            | Description                                  |
|-----------------------------------------------------------------------------------|----------------------------------------------|
|  | Provisional<br>or<br>Diagnostic<br>Connector |
|                                                                                   |                                              |

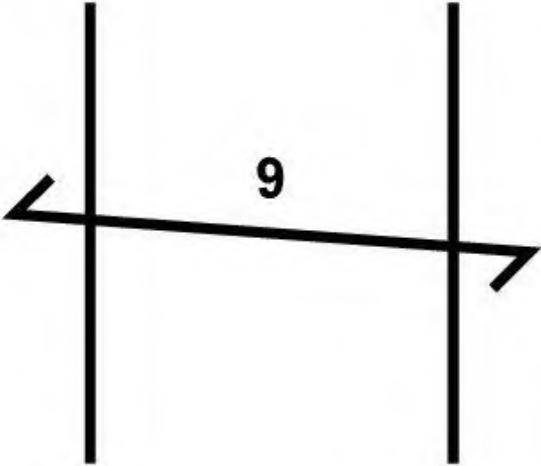
| Symbol                                                                                             | Description    |
|----------------------------------------------------------------------------------------------------|----------------|
|  <p>mcx30.com</p> | Blunt Cut Wire |
|                                                                                                    |                |

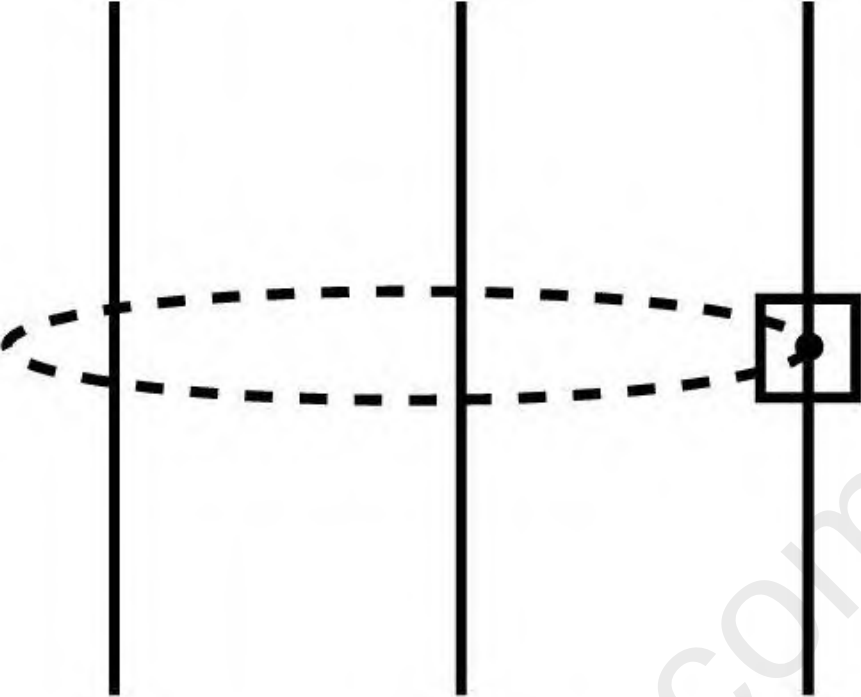
| Symbol                                                                                                                                                                                                                                                                                                                              | Description                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
|  <p>The symbol consists of a vertical line with a horizontal crossbar. On the left side of the vertical line, there is a bracket-like shape with a small circle at its center. To the right of the vertical line, the text 'J200' is written.</p> | Incomplete Physical Splice |
|                                                                                                                                                                                                                                                                                                                                     |                            |

| Symbol                                                                                         | Description                                 |
|------------------------------------------------------------------------------------------------|---------------------------------------------|
|  <p>J200</p> | Complete<br>Physical<br>Splice - 2<br>Wires |
|                                                                                                |                                             |

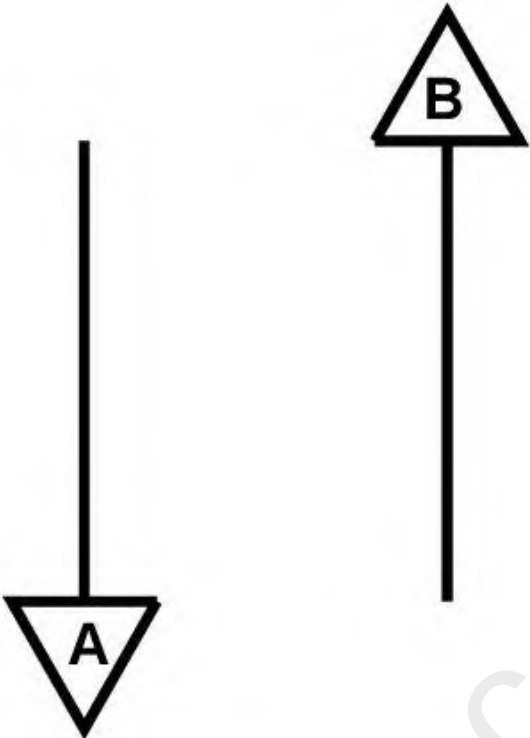
| Symbol                                                                                          | Description                                         |
|-------------------------------------------------------------------------------------------------|-----------------------------------------------------|
|  <p>J200</p> | Complete<br>Physical<br>Splice - 3 or<br>more wires |
|                                                                                                 |                                                     |

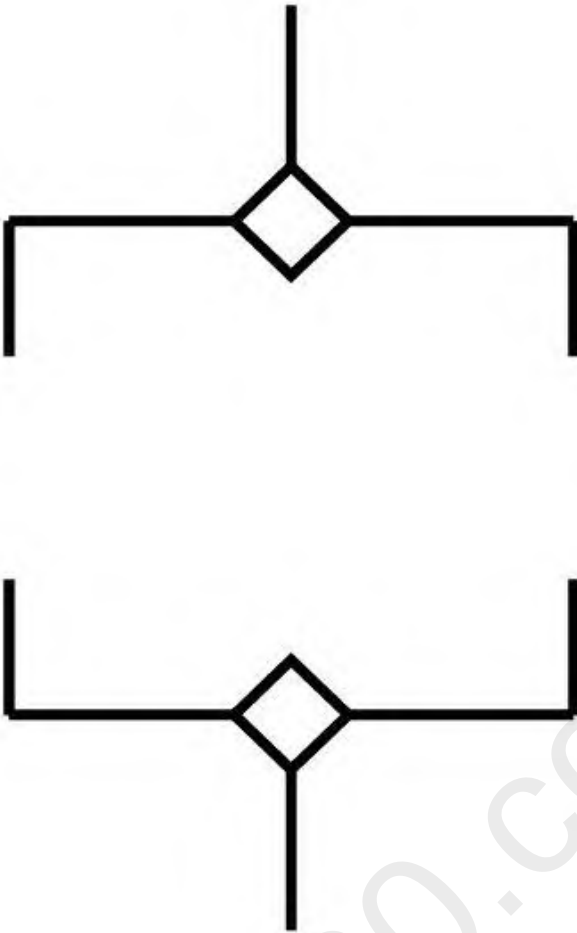
| Symbol                                                                              | Description     |
|-------------------------------------------------------------------------------------|-----------------|
|  | Wire<br>Crosses |
|                                                                                     |                 |

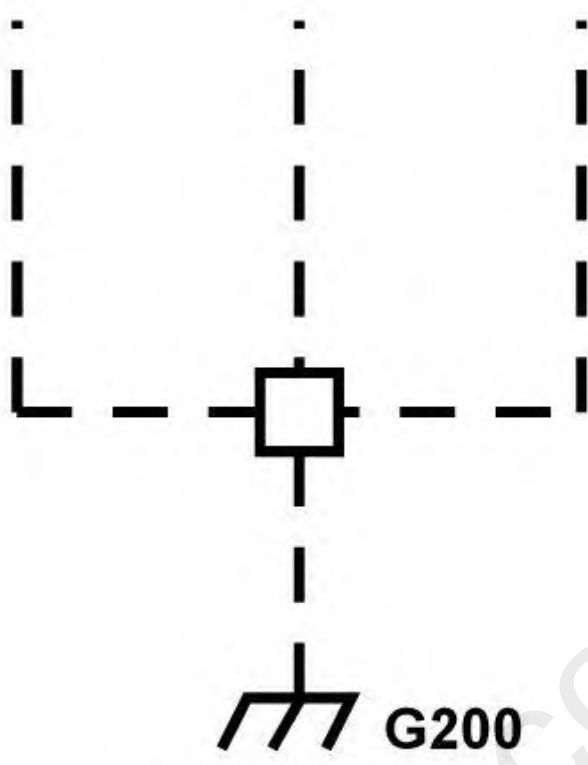
| Symbol                                                                                                                                                                                                                                                                                                                                                                        | Description   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
|  <p>The symbol consists of two vertical parallel lines. A horizontal line crosses both vertical lines. At each end of the horizontal line, there is a short diagonal tick mark pointing outwards. Above the horizontal line, centered between the two vertical lines, is the number '9'.</p> | Twisted Wires |
|                                                                                                                                                                                                                                                                                                                                                                               |               |

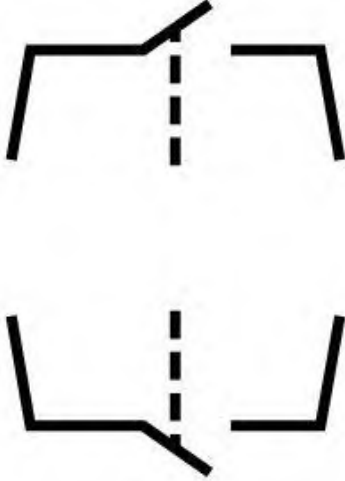
| Symbol                                                                              | Description |
|-------------------------------------------------------------------------------------|-------------|
|  | Shield      |
|                                                                                     |             |

| Symbol                                                                                                                                                                                                                                                                                                                                                                         | Description                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| <div data-bbox="173 349 528 1164"><p><b>A4<br/>Hybrid/<br/>Electric<br/>Vehicle<br/>Battery Pack</b></p></div> <div data-bbox="700 349 1139 1052"><p><b>Data<br/>Communication<br/>Schematics</b></p></div> | <p>Circuit<br/>References</p> |
|                                                                                                                                                                                                                                                                                                                                                                                |                               |

| Symbol                                                                                                                                                                                                                                                                                                                                                                                                                                  | Description                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
|  <p>The image displays two circuit continuation arrowheads. On the left, a vertical line points down to an inverted triangle containing the letter 'A'. On the right, a vertical line points up to an upright triangle containing the letter 'B'. A large, light gray watermark 'mcx30.com' is oriented diagonally across the center of the page.</p> | Circuit<br>Continuation<br>Arrowheads |
|                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                       |

| Symbol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Description       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
|  <p>The symbol consists of a central diamond shape. A vertical line extends upwards from the top vertex of the diamond. Two horizontal lines extend from the left and right vertices of the diamond, each ending in a short vertical segment. Two horizontal lines extend from the left and right vertices of the diamond, each ending in a short vertical segment. A vertical line extends downwards from the bottom vertex of the diamond.</p> | Option Breakpoint |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   |

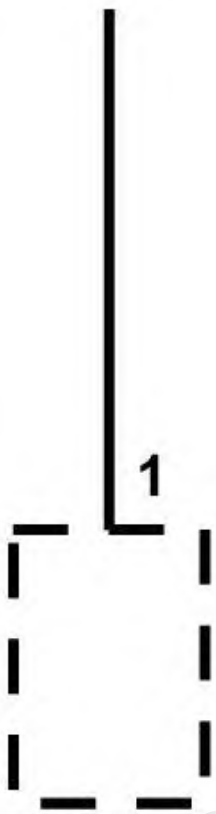
| Symbol                                                                                                                      | Description                     |
|-----------------------------------------------------------------------------------------------------------------------------|---------------------------------|
|  <p data-bbox="766 952 909 1019">G200</p> | Ground<br>Circuit<br>Connection |
|                                                                                                                             |                                 |

| Symbol                                                                            | Description                   |
|-----------------------------------------------------------------------------------|-------------------------------|
|  | Connector<br>Shorting<br>Clip |

Component Parts

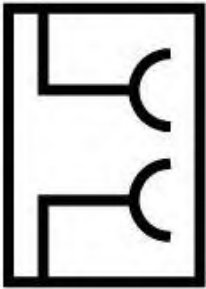
| Symbol                                                                            | Description                                                                                                                     |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
|  | Partial Component<br>When a component is represented in a dashed box, the component or its wiring is not shown in its entirety. |
|                                                                                   |                                                                                                                                 |

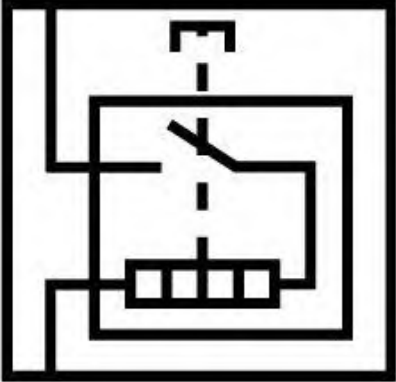
| Symbol                                                                            | Description                                                                                                                      |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
|  | <p>Entire Component<br/>When a component is represented in a solid box the component or its wiring is shown in its entirety.</p> |
|                                                                                   |                                                                                                                                  |

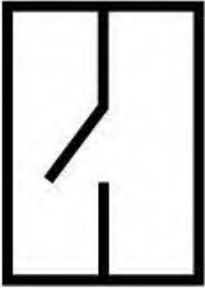
| Symbol                                                                             | Description                                       |
|------------------------------------------------------------------------------------|---------------------------------------------------|
|  | Connector<br>Directly<br>Attached to<br>Component |
|                                                                                    |                                                   |

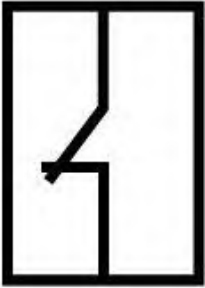
| Symbol                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Description                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
|  <p>The symbol for a Pigtail Connector consists of a vertical line at the top, followed by a semi-circular arc. To the left of the arc is the label 'X1' and to the right is the label '1'. Below the arc is a small solid black rectangle, followed by another vertical line that enters a dashed square loop. The entire symbol is centered within the table cell.</p> | <p>Pigtail<br/>Connector</p> |

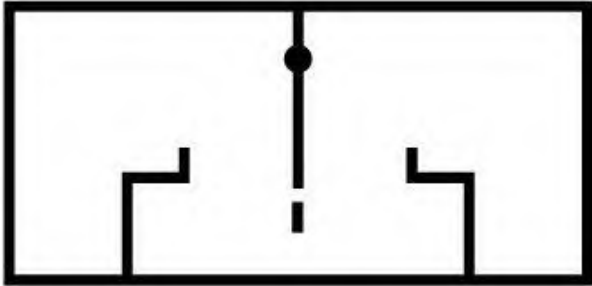
Switches and Relays

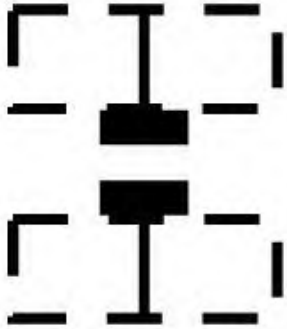
| Symbol                                                                            | Description               |
|-----------------------------------------------------------------------------------|---------------------------|
|  | Accessory<br>Power Outlet |
|                                                                                   |                           |

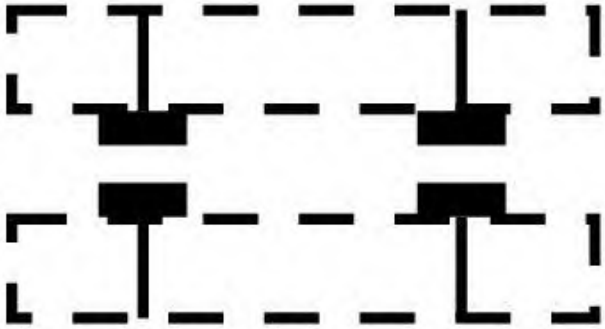
| Symbol                                                                                                                                                                                                                                                                                                                                                                                          | Description      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
|  <p>The symbol is a square box containing a simplified circuit diagram. It features a battery symbol at the bottom, a switch in the center, and a small rectangular component at the top. A diagonal line connects the switch to the top component. The entire diagram is enclosed within a square border.</p> | Cigar<br>Lighter |
|                                                                                                                                                                                                                                                                                                                                                                                                 |                  |

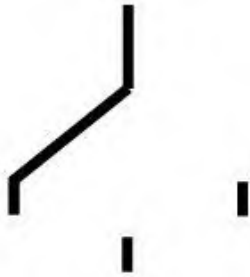
| Symbol                                                                            | Description                                |
|-----------------------------------------------------------------------------------|--------------------------------------------|
|  | Switch - 2<br>Position<br>Normally<br>Open |
|                                                                                   |                                            |

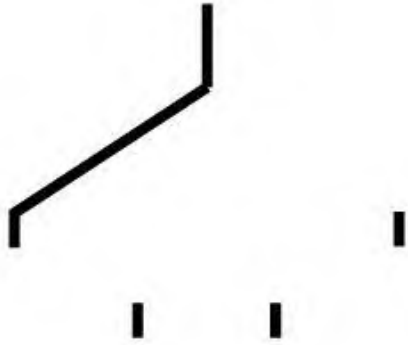
| Symbol                                                                            | Description                                  |
|-----------------------------------------------------------------------------------|----------------------------------------------|
|  | Switch - 2<br>Position<br>Normally<br>Closed |
|                                                                                   |                                              |

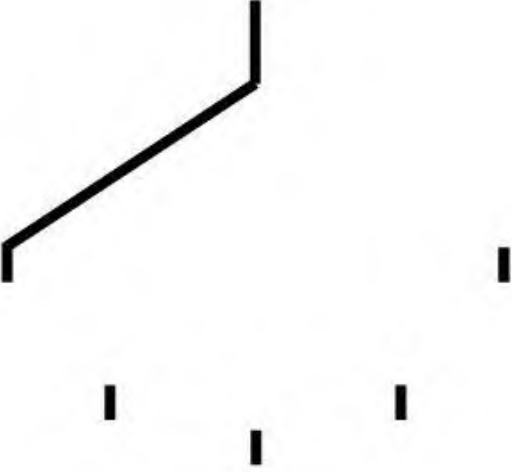
| Symbol                                                                                                                                                                                                                                                                                                                                                            | Description        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
|  <p>The symbol is a rectangular frame containing a horizontal line. On this line, there are two L-shaped components on the left and right, and a central vertical line with a solid dot at the top and a dashed line segment at the bottom, representing a switch mechanism.</p> | Switch -<br>Rocker |
|                                                                                                                                                                                                                                                                                                                                                                   |                    |

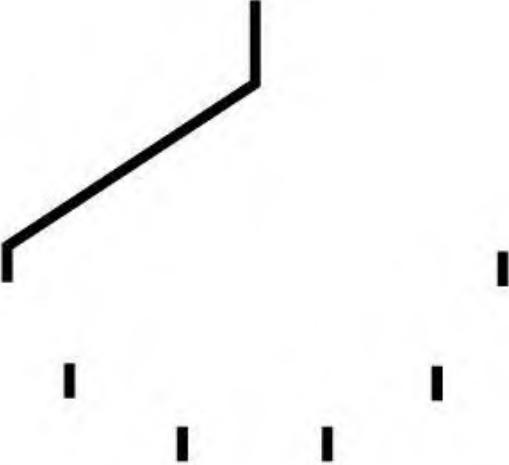
| Symbol                                                                            | Description                              |
|-----------------------------------------------------------------------------------|------------------------------------------|
|  | Switch -<br>Contact<br>Plate (1<br>Wire) |
|                                                                                   |                                          |

| Symbol                                                                                                                                                                                                                                                                                                                                                                                                                                                | Description                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
|  <p>The symbol consists of two horizontal dashed lines representing wires. Each wire has a solid vertical line segment in the middle, which is connected to a solid horizontal bar (the contact plate). These two contact plates are positioned one above the other, with a small gap between them. The entire symbol is enclosed in a dashed rectangular frame.</p> | Switch -<br>Contact<br>Plate (2<br>Wire) |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                          |

| Symbol                                                                            | Description            |
|-----------------------------------------------------------------------------------|------------------------|
|  | Switch - 3<br>Position |
|                                                                                   |                        |

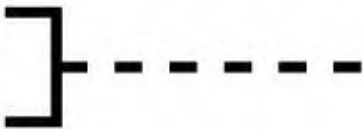
| Symbol                                                                            | Description            |
|-----------------------------------------------------------------------------------|------------------------|
|  | Switch - 4<br>Position |
|                                                                                   |                        |

| Symbol                                                                            | Description            |
|-----------------------------------------------------------------------------------|------------------------|
|  | Switch - 5<br>Position |
|                                                                                   |                        |

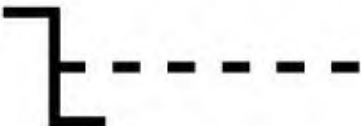
| Symbol                                                                            | Description            |
|-----------------------------------------------------------------------------------|------------------------|
|  | Switch - 6<br>Position |
|                                                                                   |                        |

| Symbol                                                                            | Description                                 |
|-----------------------------------------------------------------------------------|---------------------------------------------|
|  | Switch<br>Actuator -<br>Push<br>(Momentary) |
|                                                                                   |                                             |

| Symbol                                                                            | Description                                |
|-----------------------------------------------------------------------------------|--------------------------------------------|
|  | Switch<br>Actuator -<br>Push<br>(Latching) |
|                                                                                   |                                            |

| Symbol                                                                            | Description                                 |
|-----------------------------------------------------------------------------------|---------------------------------------------|
|  | Switch<br>Actuator -<br>Pull<br>(Momentary) |
|                                                                                   |                                             |

| Symbol                                                                            | Description                                |
|-----------------------------------------------------------------------------------|--------------------------------------------|
|  | Switch<br>Actuator -<br>Pull<br>(Latching) |
|                                                                                   |                                            |

| Symbol                                                                            | Description                                   |
|-----------------------------------------------------------------------------------|-----------------------------------------------|
|  | Switch<br>Actuator -<br>Rotate<br>(Momentary) |
|                                                                                   |                                               |

| Symbol                                                                            | Description                                  |
|-----------------------------------------------------------------------------------|----------------------------------------------|
|  | Switch<br>Actuator -<br>Rotate<br>(Latching) |
|                                                                                   |                                              |

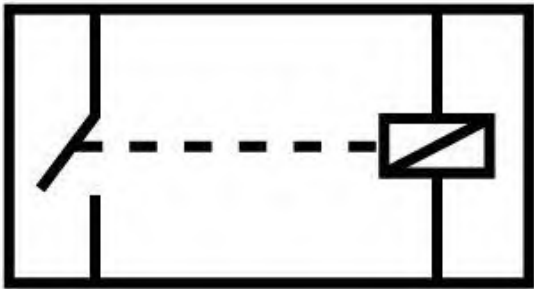
| Symbol                                                                            | Description                                  |
|-----------------------------------------------------------------------------------|----------------------------------------------|
|  | Switch<br>Actuator -<br>Slide<br>(Momentary) |
|                                                                                   |                                              |

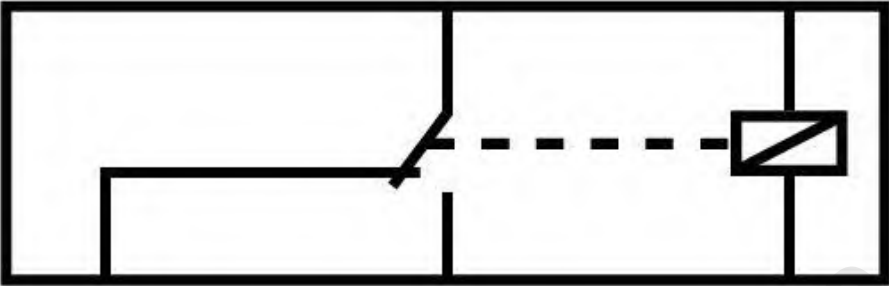
| Symbol                                                                            | Description                                 |
|-----------------------------------------------------------------------------------|---------------------------------------------|
|  | Switch<br>Actuator -<br>Slide<br>(Latching) |
|                                                                                   |                                             |

| Symbol                                                                            | Description                                     |
|-----------------------------------------------------------------------------------|-------------------------------------------------|
|  | Switch<br>Actuator -<br>Pressure<br>(Momentary) |
|                                                                                   |                                                 |

| Symbol                                                                            | Description                                        |
|-----------------------------------------------------------------------------------|----------------------------------------------------|
|  | Switch<br>Actuator -<br>Temperature<br>(Momentary) |
|                                                                                   |                                                    |

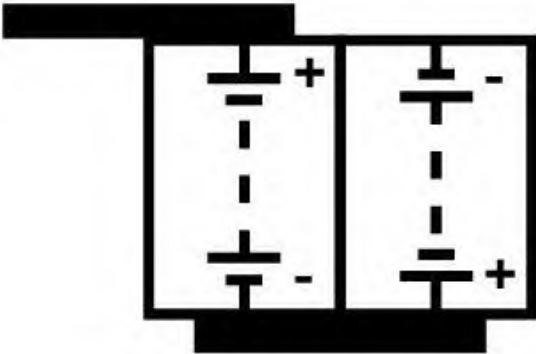
| Symbol                                                                            | Description                                  |
|-----------------------------------------------------------------------------------|----------------------------------------------|
|  | Switch<br>Actuator -<br>Volume<br>(Latching) |
|                                                                                   |                                              |

| Symbol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Description                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
|  <p>The diagram shows a rectangular symbol for a relay. On the left side, there are two vertical lines representing terminals. A horizontal line extends from the top terminal, passing through a diagonal switch symbol (representing a normally open contact) and ending at a small rectangular coil symbol on the right. A dashed line connects the bottom terminal to the coil symbol. On the right side, there are two vertical lines representing terminals, connected to the top and bottom of the coil symbol respectively.</p> | 4-Pin Single Pole/Throw Relay - Normally Open |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                               |

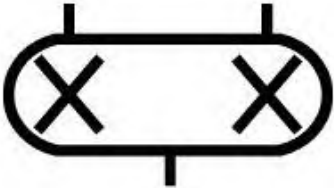
| Symbol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Description                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
|  <p>The diagram shows a 5-pin relay symbol. It consists of a rectangular box divided into two main sections. The left section contains a horizontal line with a vertical step down, representing a normally closed contact. The right section contains a horizontal line with a diagonal slash, representing a normally open contact. A dashed line connects the two contacts, indicating they are part of the same relay. The entire symbol is enclosed in a rectangular frame.</p> | 5-Pin Relay -<br>Normally<br>Closed |

Devices and Sensors

| Symbol                                                                            | Description |
|-----------------------------------------------------------------------------------|-------------|
|  | Battery     |
|                                                                                   |             |

| Symbol                                                                            | Description                     |
|-----------------------------------------------------------------------------------|---------------------------------|
|  | Battery<br>Assembly -<br>Hybrid |
|                                                                                   |                                 |

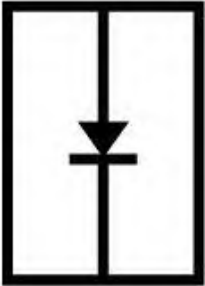
| Symbol                                                                            | Description                      |
|-----------------------------------------------------------------------------------|----------------------------------|
|  | Single<br>Filament<br>Light Bulb |
|                                                                                   |                                  |

| Symbol                                                                            | Description                      |
|-----------------------------------------------------------------------------------|----------------------------------|
|  | Double<br>Filament<br>Light Bulb |
|                                                                                   |                                  |

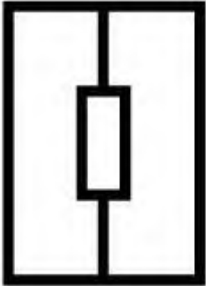
| Symbol                                                                            | Description                         |
|-----------------------------------------------------------------------------------|-------------------------------------|
|  | Light<br>Emitting<br>Diode<br>(LED) |
|                                                                                   |                                     |

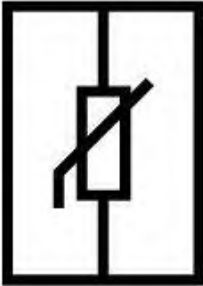
| Symbol                                                                            | Description     |
|-----------------------------------------------------------------------------------|-----------------|
|  | Photo<br>Sensor |
|                                                                                   |                 |

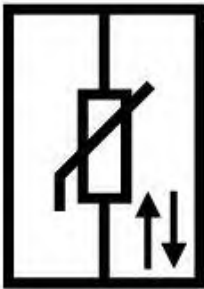
| Symbol                                                                            | Description |
|-----------------------------------------------------------------------------------|-------------|
|  | Gauge       |
|                                                                                   |             |

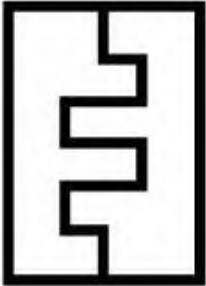
| Symbol                                                                            | Description |
|-----------------------------------------------------------------------------------|-------------|
|  | Diode       |
|                                                                                   |             |

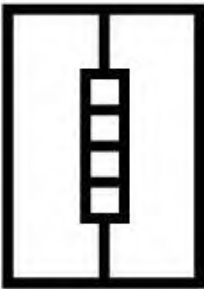
| Symbol                                                                            | Description |
|-----------------------------------------------------------------------------------|-------------|
|  | Capacitor   |
|                                                                                   |             |

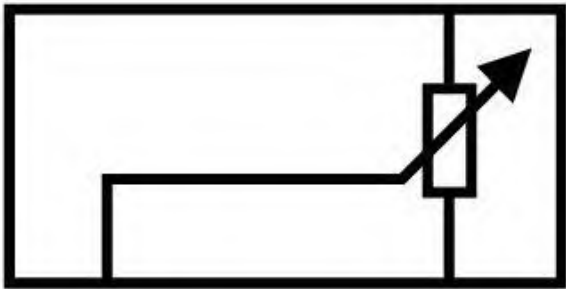
| Symbol                                                                            | Description |
|-----------------------------------------------------------------------------------|-------------|
|  | Resistor    |
|                                                                                   |             |

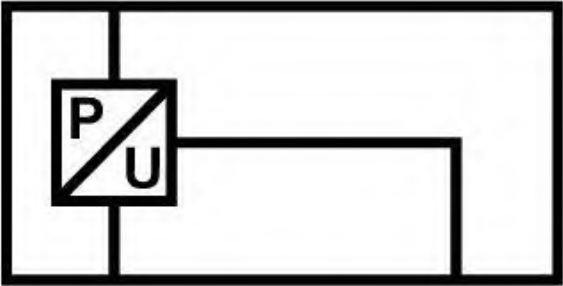
| Symbol                                                                            | Description       |
|-----------------------------------------------------------------------------------|-------------------|
|  | Variable Resistor |
|                                                                                   |                   |

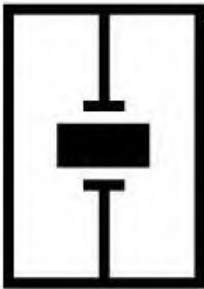
| Symbol                                                                                                                                                                                                                                                                                                                                                                                 | Description             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
|  <p>The symbol consists of a rectangle with a diagonal line through it, representing a resistor. To the right of the rectangle is a vertical line with an upward-pointing arrow and a downward-pointing arrow, indicating a variable resistance. The entire symbol is enclosed in a square frame.</p> | Variable Resistor - NTC |
|                                                                                                                                                                                                                                                                                                                                                                                        |                         |

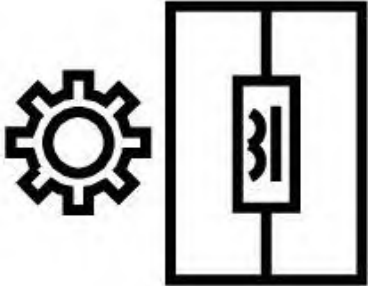
| Symbol                                                                            | Description    |
|-----------------------------------------------------------------------------------|----------------|
|  | Breakable Wire |
|                                                                                   |                |

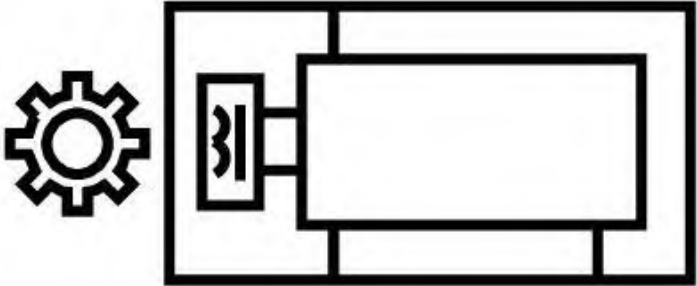
| Symbol                                                                            | Description     |
|-----------------------------------------------------------------------------------|-----------------|
|  | Heating Element |
|                                                                                   |                 |

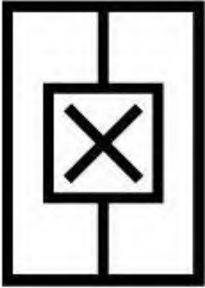
| Symbol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Description     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
|  <p>The symbol for a position sensor is a rectangular box. Inside the box, there is a horizontal line on the left side. From the right end of this line, a vertical line extends upwards to the top edge of the box. From the top of this vertical line, a diagonal line extends towards the top-right corner of the box, ending in an arrowhead. This symbol represents a position sensor in a schematic diagram.</p> | Position Sensor |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                 |

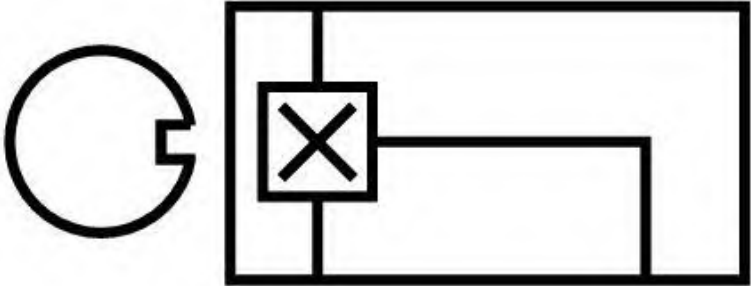
| Symbol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Description     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
|  <p>The symbol for a pressure sensor is a rectangular box. Inside the box, on the left side, is a smaller square. This square is divided diagonally from the top-left corner to the bottom-right corner. The upper-left portion of the square contains the letter 'P', and the lower-right portion contains the letter 'U'. Two horizontal lines extend from the right side of the inner square: one line extends to the top edge of the main rectangle, and the other extends to the bottom edge of the main rectangle. A vertical line also extends from the right side of the inner square to the bottom edge of the main rectangle. The entire symbol is centered within the cell.</p> | Pressure Sensor |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |

| Symbol                                                                                                                                                                                                                                                                                                                                  | Description     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
|  <p>The symbol for a knock sensor is a square box containing a vertical line. In the center of this line is a solid black rectangle. Small horizontal bars are located on the vertical line just above and just below the central black rectangle.</p> | Knock<br>Sensor |
|                                                                                                                                                                                                                                                                                                                                         |                 |

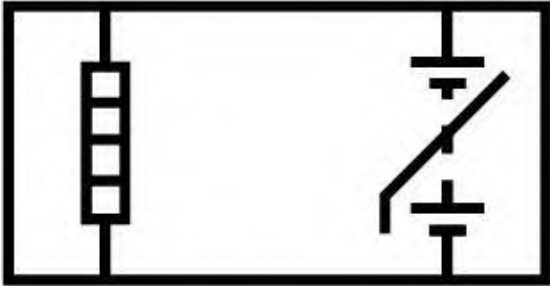
| Symbol                                                                                                                                                                                                                                                                    | Description                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
|  <p>The symbol consists of a gear icon to the left of a rectangular box. Inside the box, there is a vertical line with a smaller rectangle in the center containing the number '31'.</p> | Inductive<br>Type Sensor<br>- 2-Wire |
|                                                                                                                                                                                                                                                                           |                                      |

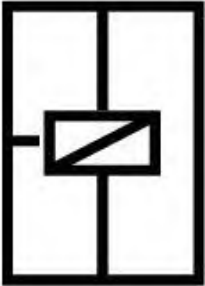
| Symbol                                                                                                                                                                                                                                                                                                                                                                                 | Description                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
|  <p>The symbol consists of a gear icon on the left, connected by a horizontal line to a rectangular box. Inside the box, there is a smaller rectangle with a vertical line through its center, and a larger rectangle to its right. The entire symbol is enclosed in a larger rectangular frame.</p> | Inductive<br>Type Sensor<br>- 3-Wire |
|                                                                                                                                                                                                                                                                                                                                                                                        |                                      |

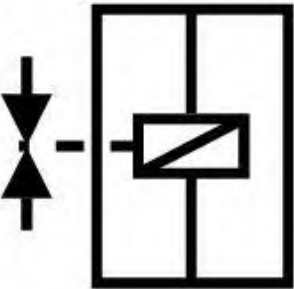
| Symbol                                                                            | Description                 |
|-----------------------------------------------------------------------------------|-----------------------------|
|  | Hall Effect Sensor - 2-Wire |
|                                                                                   |                             |

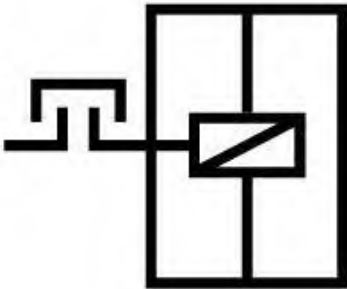
| Symbol                                                                             | Description                 |
|------------------------------------------------------------------------------------|-----------------------------|
|  | Hall Effect Sensor - 3-Wire |
|                                                                                    |                             |

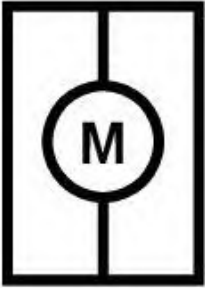
| Symbol                                                                            | Description                   |
|-----------------------------------------------------------------------------------|-------------------------------|
|  | Oxygen<br>Sensor - 2-<br>Wire |
|                                                                                   |                               |

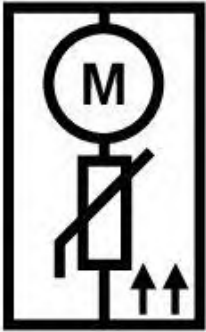
| Symbol                                                                            | Description                             |
|-----------------------------------------------------------------------------------|-----------------------------------------|
|  | Heated<br>Oxygen<br>Sensor - 4-<br>Wire |
|                                                                                   |                                         |

| Symbol                                                                            | Description            |
|-----------------------------------------------------------------------------------|------------------------|
|  | Solenoid -<br>Actuator |
|                                                                                   |                        |

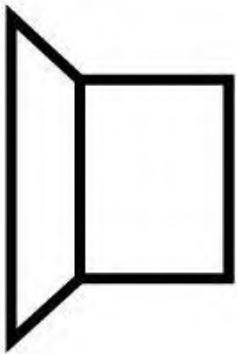
| Symbol                                                                            | Description      |
|-----------------------------------------------------------------------------------|------------------|
|  | Solenoid - Valve |
|                                                                                   |                  |

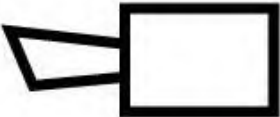
| Symbol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Description |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
|  <p>A hydraulic symbol for a clutch valve. It consists of a square box divided into four quadrants by a vertical line. A diagonal line runs from the bottom-left to the top-right of the right half of the box. To the left of the box, there is a horizontal line that connects to a vertical line, which then branches into two horizontal lines, each ending in a T-shaped symbol representing a valve or actuator.</p> | Clutch      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             |

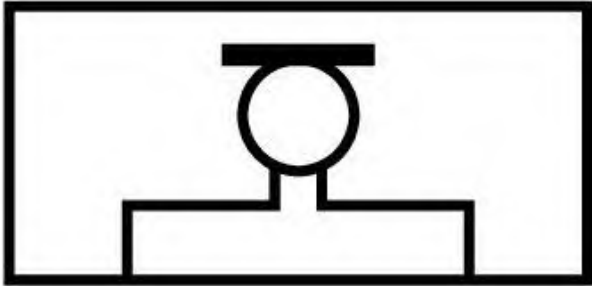
| Symbol                                                                            | Description |
|-----------------------------------------------------------------------------------|-------------|
|  | Motor       |
|                                                                                   |             |

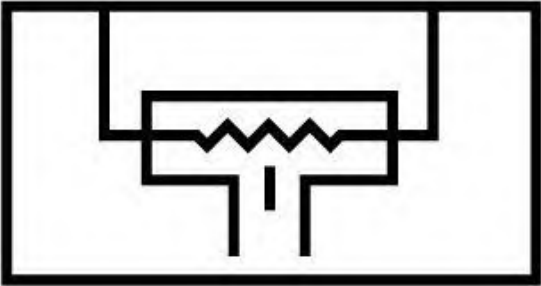
| Symbol                                                                            | Description    |
|-----------------------------------------------------------------------------------|----------------|
|  | Motor with PTC |
|                                                                                   |                |

| Symbol                                                                            | Description |
|-----------------------------------------------------------------------------------|-------------|
|  | Antenna     |
|                                                                                   |             |

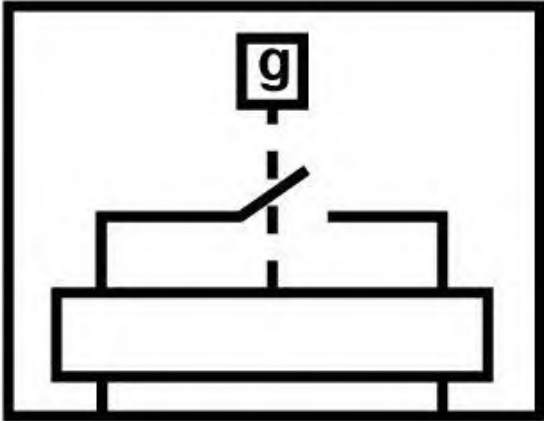
| Symbol                                                                                                                                                                                                                                   | Description |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
|  <p>A black outline symbol of a speaker, consisting of a trapezoidal shape with a smaller rectangle inside, representing the speaker cone and body.</p> | Speaker     |
|                                                                                                                                                                                                                                          |             |

| Symbol                                                                                                                                                                            | Description |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
|  A black line drawing of a horn, consisting of a rectangular body and a flared, trapezoidal end. | Horn        |
|                                                                                                                                                                                   |             |

| Symbol                                                                            | Description |
|-----------------------------------------------------------------------------------|-------------|
|  | Microphone  |
|                                                                                   |             |

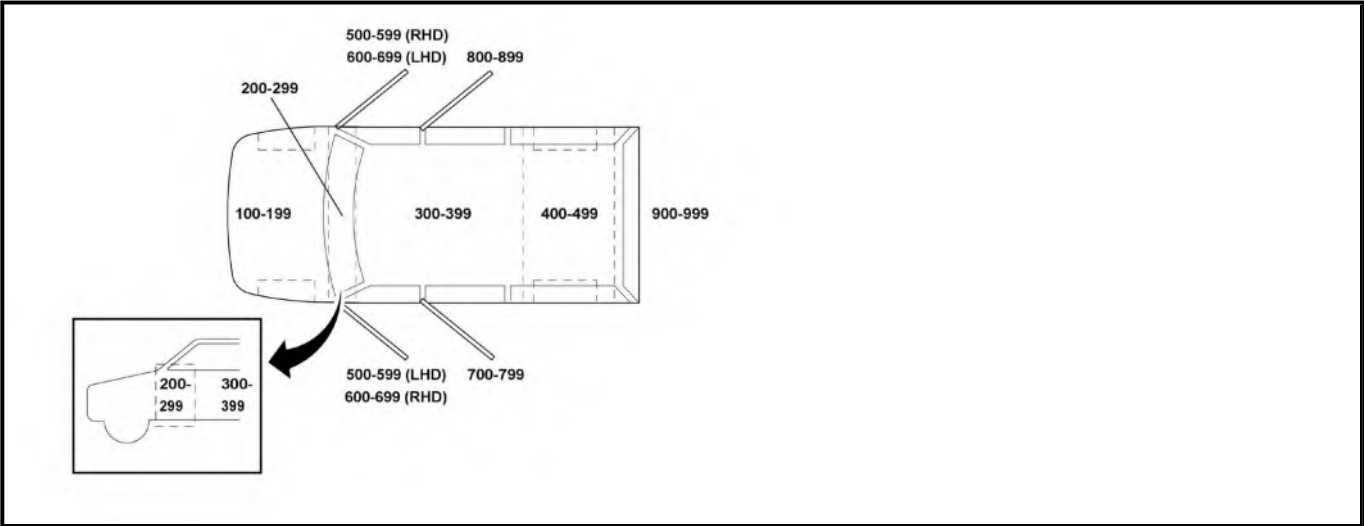
| Symbol                                                                            | Description |
|-----------------------------------------------------------------------------------|-------------|
|  | Airbag      |
|                                                                                   |             |

| Symbol                                                                            | Description |
|-----------------------------------------------------------------------------------|-------------|
|  | SIR Coil    |
|                                                                                   |             |

| Symbol                                                                            | Description       |
|-----------------------------------------------------------------------------------|-------------------|
|  | SIR Impact Sensor |

**VEHICLE ZONING STRATEGY (SUV)**

All grounds, in-line connectors, and splices have identifying numbers that correspond to where they are located in the vehicle. The following table explains the numbering system.

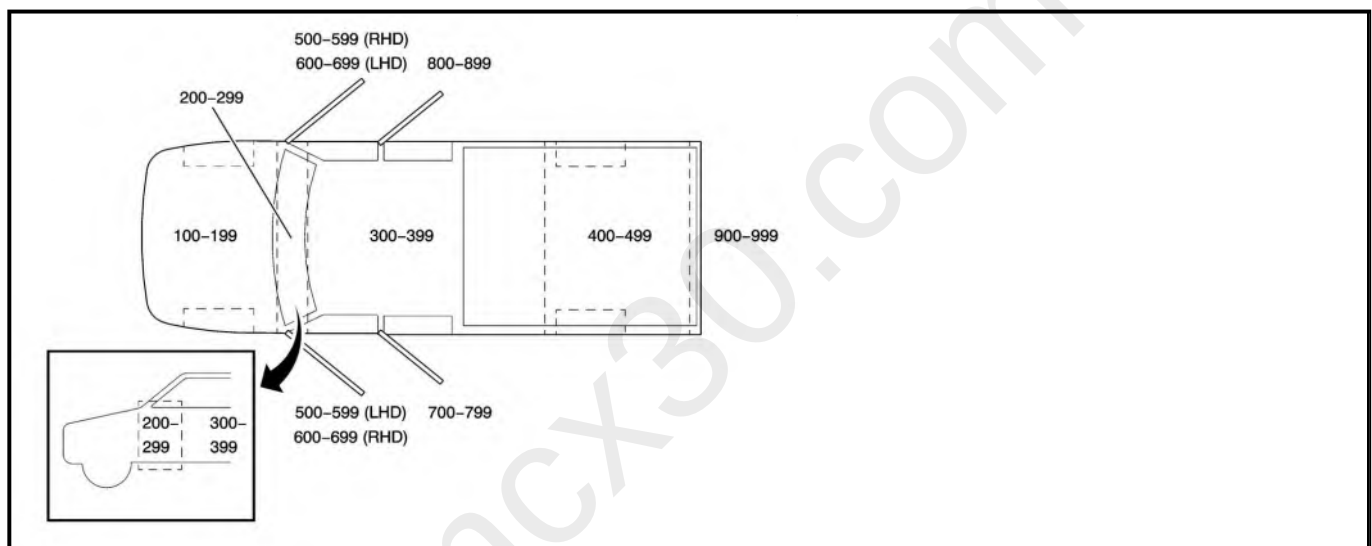


| Callout Numbers | Zone Description                                         |
|-----------------|----------------------------------------------------------|
| 100-199         | Engine compartment (all forward of the instrument panel) |

| Callout Numbers | Zone Description                                                                                                                                        |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| 200-299         | Within the instrument panel area (between the bulkhead and the front plane of the instrument panel)                                                     |
| 300-399         | Passenger compartment (from instrument panel to the back of the 2nd row seats)                                                                          |
| 400-499         | Luggage compartment (from the back of the 2nd row seats to the rear of the vehicle, including any additional rows of seating rear of the 2nd row seats) |
| 500-599         | Inline harness connectors to or within the driver door                                                                                                  |
| 600-699         | Inline harness connectors to or within the front passenger door                                                                                         |
| 700-799         | Inline harness connectors to or within the left rear door                                                                                               |
| 800-899         | Inline harness connectors to or within the right rear door                                                                                              |
| 900-999         | Inline harness connectors to or within the liftgate, lift window, endgate, or rear doors                                                                |

### VEHICLE ZONING STRATEGY (PICKUP)

All grounds, in-line connectors, and splices have identifying numbers that correspond to where they are located in the vehicle. The following table explains the numbering system.



| Callout Numbers | Zone Description                                                                                    |
|-----------------|-----------------------------------------------------------------------------------------------------|
| 100-199         | Engine compartment (all forward of the instrument panel)                                            |
| 200-299         | Within the instrument panel area (between the bulkhead and the front plane of the instrument panel) |
| 300-399         | Passenger compartment (from the instrument panel to the rear of the cab)                            |
| 400-499         | Truck bed/chassis (from the rear of the cab to the rear of the vehicle)                             |
| 500-599         | Inline harness connectors to or within the driver door                                              |
| 600-699         | Inline harness connectors to or within the front passenger door                                     |
| 700-799         | Inline harness connectors to or within the left rear door                                           |
| 800-899         | Inline harness connectors to or within the right rear door                                          |
| 900-999         | Inline harness connectors to or within the endgate                                                  |

### WIRING SCHEMATICS RPO CODE LIST

| RPO | Option Name                                                                                                |
|-----|------------------------------------------------------------------------------------------------------------|
| 8S3 | ALARM B/U-ELECTRICAL, 97 DECIBELS (SEO)                                                                    |
| AAQ | ADJUSTER PASS ST-POWER, 4 WAY (DO NOT USE ON NEW PROGRAMS AFTER MY18)                                      |
| AL9 | LUMBAR DRIVER-SEAT, POWER, 2 WAY                                                                           |
| AT9 | LUMBAR PASSENGER-SEAT, POWER, 2 WAY                                                                        |
| ATG | LOCK CONTROL, ENTRY-REMOTE ENTRY, STANDARD RANGE                                                           |
| BPH | APPEARANCE PACKAGE-CHEVROLET "OFF ROAD"                                                                    |
| C49 | DEFOGGER-RR WINDOW, ELECTRIC                                                                               |
| C74 | LAMP-INTR, ROOF, DUAL READING                                                                              |
| DD8 | MIRROR I/S R/V-LT SENSITIVE                                                                                |
| DEG | SUNSHADE-DRIVER, MIRROR, COVER, ILLUM, SLIDING, PASS, MIRROR, COVER, ILLUM, SLIDING                        |
| DL6 | MIRROR O/S-LH and RH, REMOTE CONTROL, ELECTRIC, MANUAL FOLDING, COLOR                                      |
| DL9 | MIRROR O/S-LH and RH, REMOTE CONTROL, ELECTRIC, HEATED, CHROME                                             |
| IOR | RADIO-INFOTAINMENT SYSTEM - 3.X LOW HMI, MIDLEVEL CONNECTIVITY 3.X                                         |
| IOS | RADIO-INFOTAINMENT SYSTEM - 3.X MID/HIGH HMI, ENHANCED CONNECTIVITY, VOICE RECOGNITION, MID SD NAV CAPABLE |
| IOU | RADIO-INFOTAINMENT SYSTEM - 3.X MID/HIGH HMI, ENHANCED CONNECTIVITY, VOICE RECOGNITION, MID SD NAV         |
| JL1 | BRK APL CTRL FEATURE-INTEGRATED TRAILER BRAKE                                                              |
| K34 | CRUISE CONTROL-AUTOMATIC, ELECTRONIC                                                                       |
| K4C | CHARGER-INDUCTIVE PORTABLE WIRELESS DEVICE                                                                 |
| KA1 | HEATER SEAT FRT-DRVR and PASS                                                                              |
| LCV | ENGINE-GAS, 4 CYL, 2.5L, L4, SIDI, DOHC, DCVCP, VVT, E85 MAX, E0-E100, ALUM                                |
| LGZ | ENGINE-GAS, 6CYL, 3.6L, V6, DI, DOHC, VVT, ALUM, VAR2, GEN 2                                               |
| LWN | ENGINE-DIESEL, 2.8L, DI, L4, DOHC, TURBO, XLDE                                                             |
| M5T | TRANSMISSION-AUTO 8 SPD, 8L45                                                                              |
| MYB | TRANSMISSION-AUTO 6 SPD, 6L50                                                                              |
| NQ6 | TRANSFER CASE-2 SPD, ACTIVE, PART TIME 4WD, L/H DROP, LOW RATIO 2.72:1                                     |
| NQ7 | TRANSFER CASE-2 SPD, SWITCH ACTIVATED, PART TIME 4WD, L/H DROP, LOW RATIO 2.72:1                           |
| S0Y | ACCESSORY-LAMPS - CARGO AREA                                                                               |
| SAO | ACCESSORY-SMOKERS PACKAGE                                                                                  |
| T3U | LAMP FRT FOG-FRT FOG                                                                                       |
| TR0 | LAMP-INTR, ROOF, RR, COURTESY and DUAL READING                                                             |
| U2K | DIGITAL AUDIO SYSTEM-S-BAND                                                                                |
| UD7 | PARK ASSIST-REAR                                                                                           |
| UDC | DISPLAY INSTRUMENT-DRIVER INFO ENHANCED (ONE COLOR GRAPHIC)                                                |
| UDD | DISPLAY INSTRUMENT-DRIVER INFO ENHANCED (MULTI COLOR STANDARD GRAPHIC)                                     |
| UE1 | COMMUNICATION SYSTEM-VEHICLE, ONSTAR                                                                       |
| UEU | SENSOR INDICATOR-FORWARD COLLISION ALERT                                                                   |
| UFL | LANE ACTIVE SAFETY-DEPARTURE WARNING                                                                       |
| ULV | MERCHANDISED PKG-CHEVROLET BISON                                                                           |
| UQA | SPEAKER SYSTEM-PREMIUM AUDIO, BRANDED AMPLIFIER                                                            |

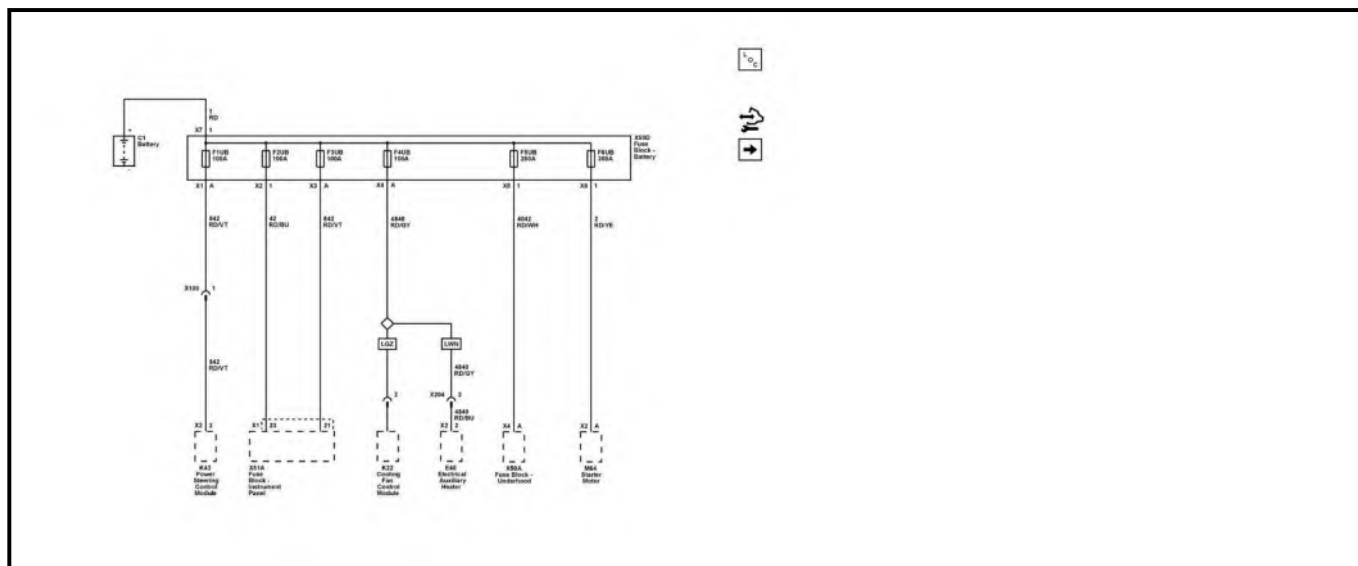
| RPO | Option Name                                                     |
|-----|-----------------------------------------------------------------|
| USS | RECEPTACLE-USB CHARGE PORT (DO NOT USE NEXT NEW MAJOR, SEE BFO) |
| UTJ | THEFT DETERENT-ELECTRICAL, UNAUTHORIZED ENTRY                   |
| UVB | VISION-REAR VIEW, MONO, HD DIGITAL                              |
| UVC | VISION-REAR VIEW, MONO, ANALOG                                  |
| VV4 | COMMUNICATION EQUIP-MOBILE INTERNET CONNECTIVITY                |
| W1Y | CONTROL-STEERING WHEEL, RADIO, REDUNDANT CONTROLS               |
| X88 | MARKET BRAND-CHEVROLET                                          |
| Z82 | TRAILER PROVISIONS-SPECIAL EQUIPMENT, H.D.                      |
| Z88 | MARKET BRAND-GMC                                                |
| ZR2 | CHASSIS PACKAGE-HIGH WIDER PERFORMANCE, 4 X 4 SPORT             |

## MASTER ELECTRICAL SCHEMATIC ICONS

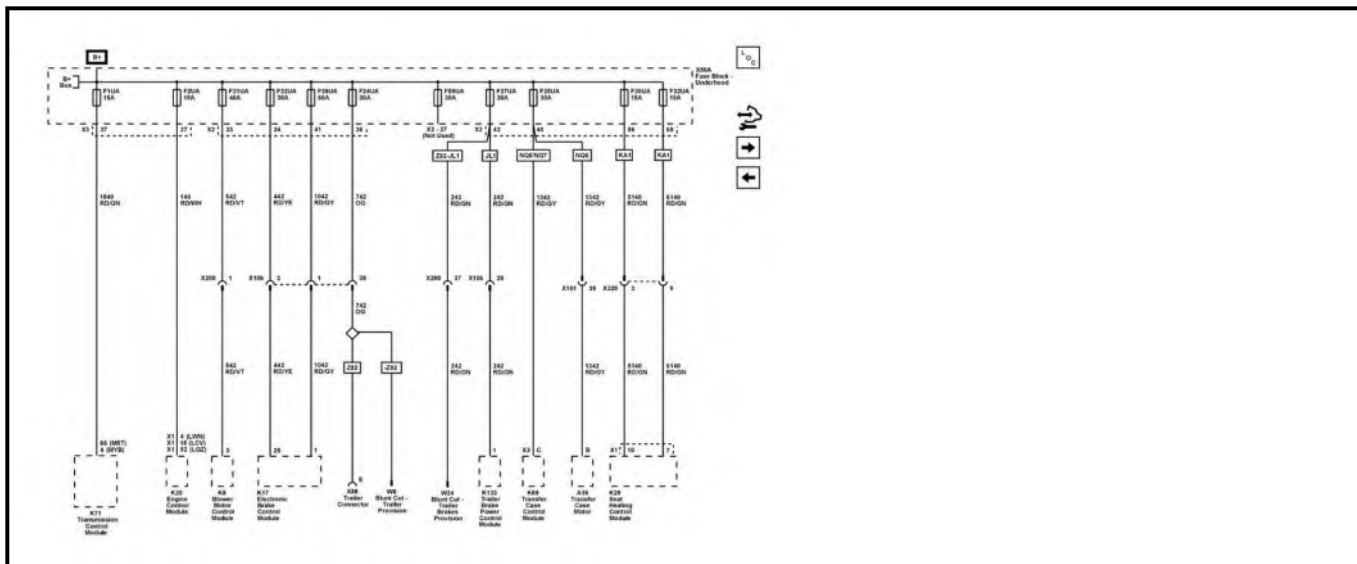
| Icon                                                                               | Icon Definition                                                                                                                                                                                                                                                                                                         |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p><b>WARNING:</b></p> <p>When performing service on or near the SIR components or the SIR wiring, the SIR system must be disabled. Refer to SIR Disabling and Enabling. Failure to observe the correct procedure could cause deployment of the SIR components, personal injury, or unnecessary SIR system repairs.</p> |
|                                                                                    |                                                                                                                                                                                                                                                                                                                         |

| Icon                                                                                | Icon Definition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p><b>NOTE:</b></p> <p>Twisted wires provide an effective shield that helps protect sensitive electronic components from electrical interference.</p> <p>In order to prevent electrical interference from degrading the performance of the connected components, you must maintain the proper specification when making any repairs to the twisted wires shown:</p> <ul style="list-style-type: none"> <li>• The wires must be twisted a minimum of 10 turns per 31 cm (12 in) as measured anywhere along the length of the wires.</li> <li>• The outside diameter of the twisted wires must not exceed 6.0 mm (0.25 in).</li> </ul> |

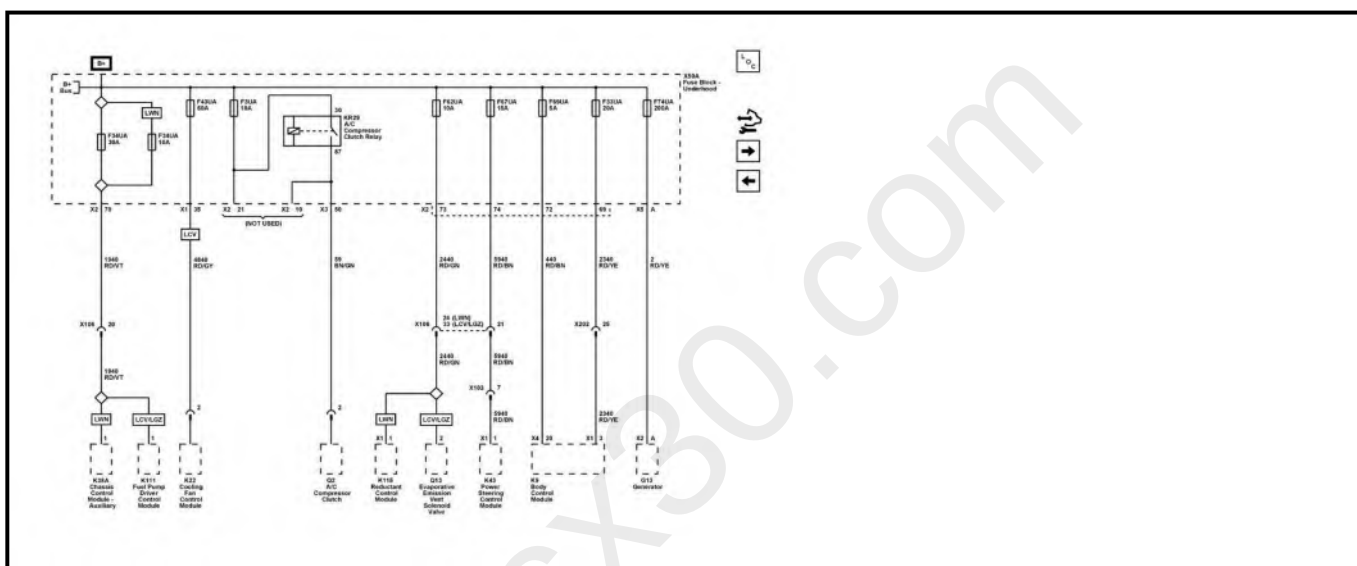
## B+ Bus X50D Fuse Block - Battery



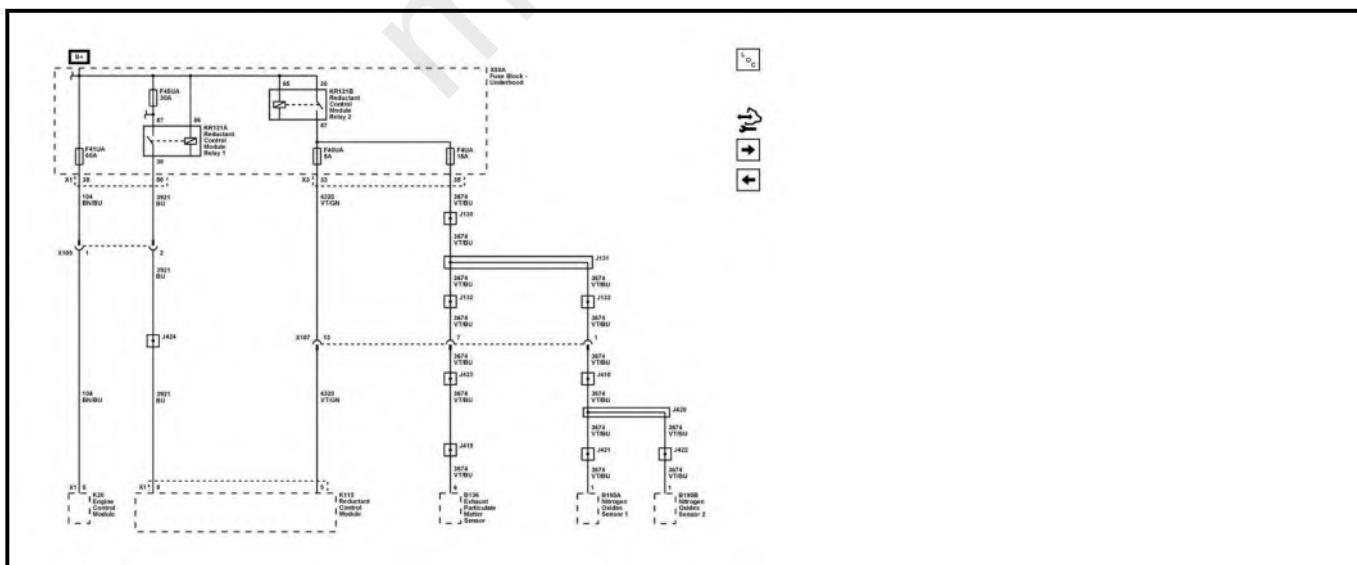
### F1UA, F2UA, F21UA, F22UA, F24UA, F25UA, F26UA, F27UA, F30UA, and F32UA Fuses



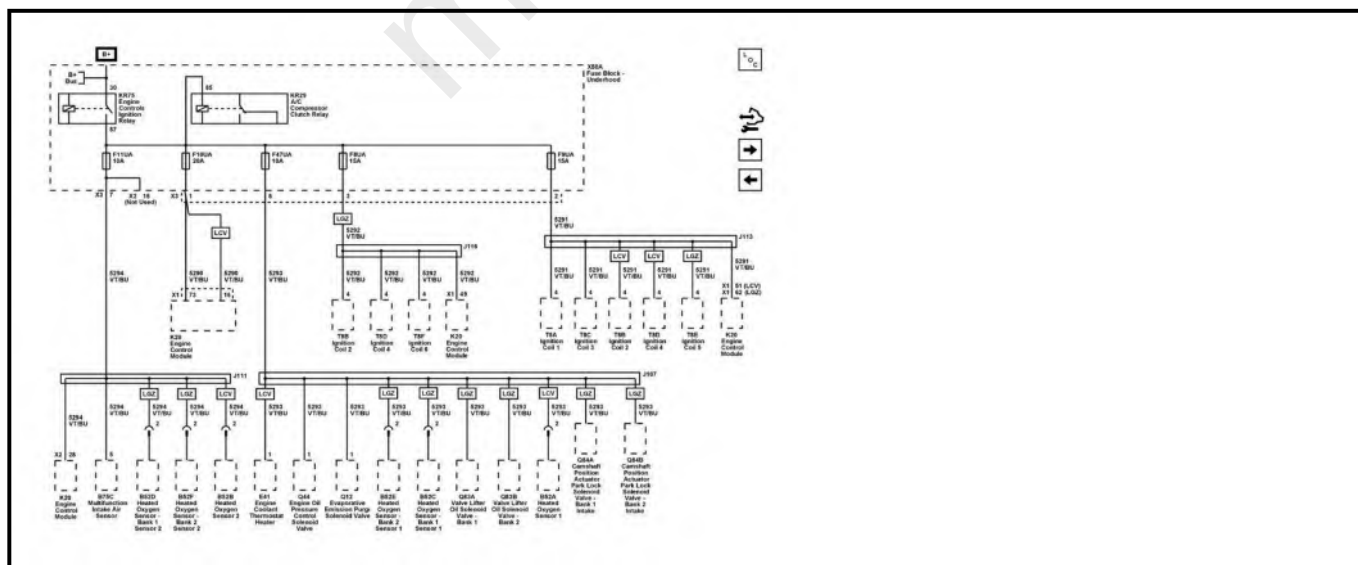
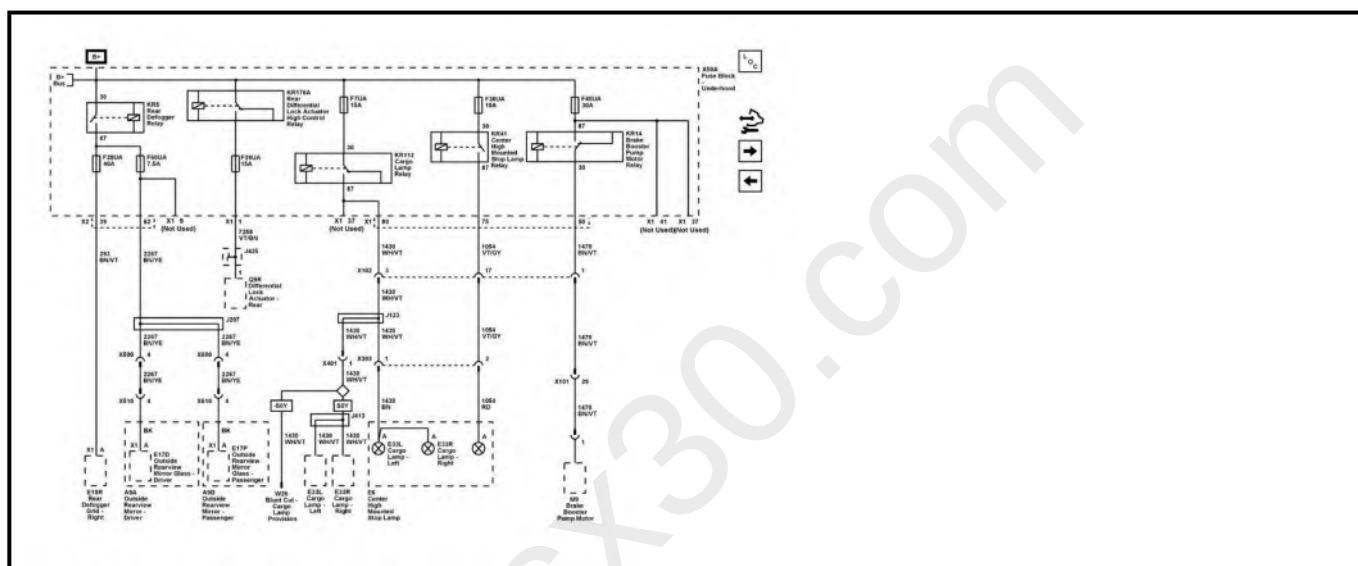
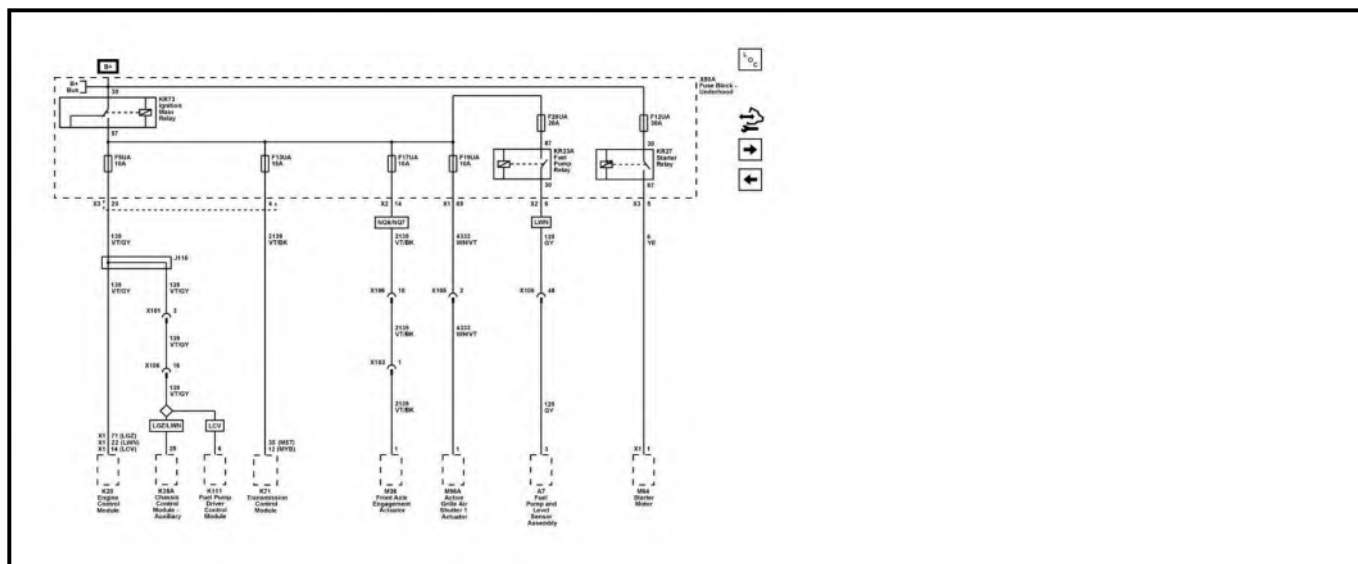
**F3UA, F33UA, F34UA, F43UA, F62UA, F67UA, F69UA, and F74UA Fuses**

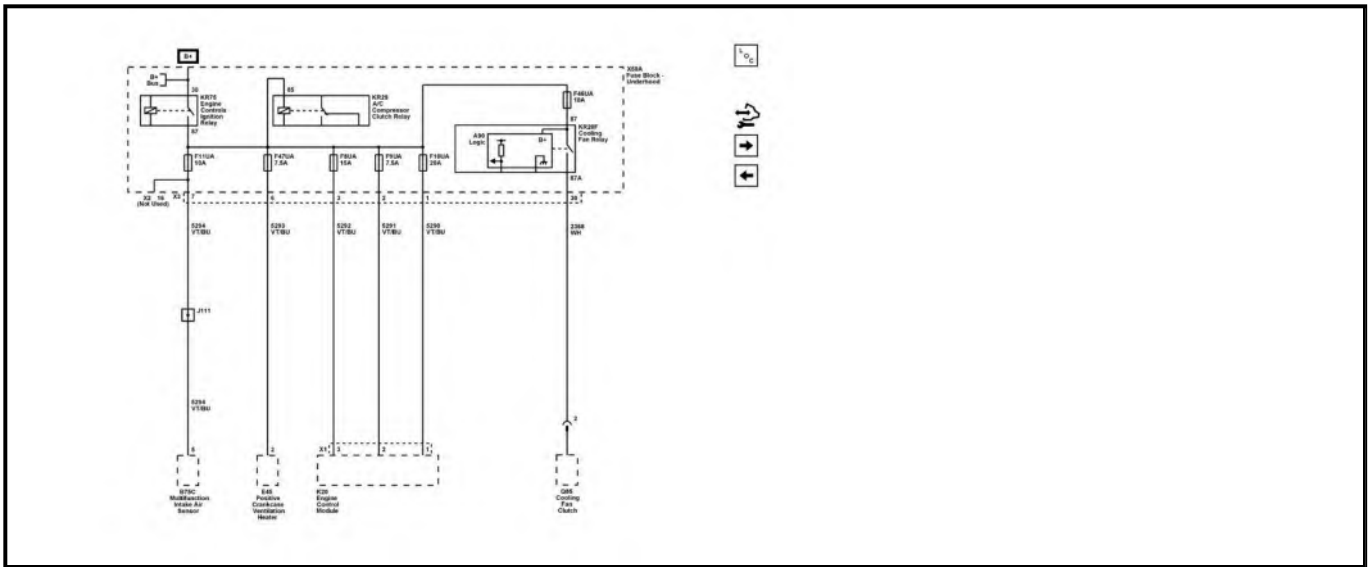


**F4UA, F40UA, F41UA, and F45UA Fuses (LWN)**

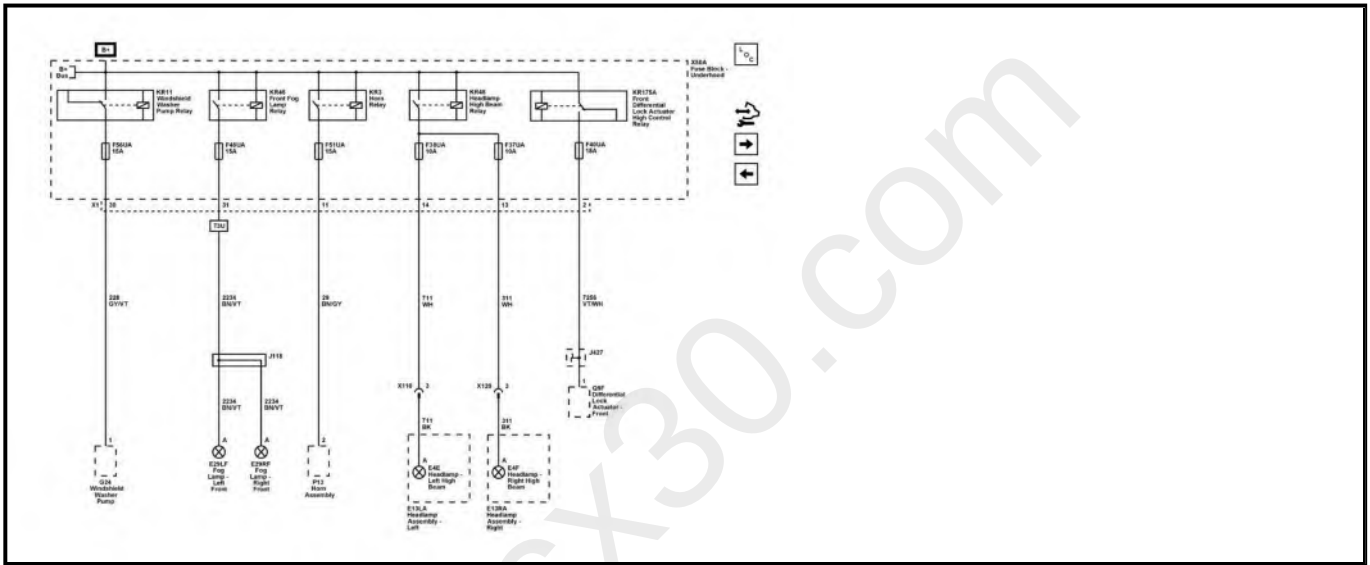


**F5UA, F12UA, F13UA, F17UA, F19UA, and F20UA Fuses**

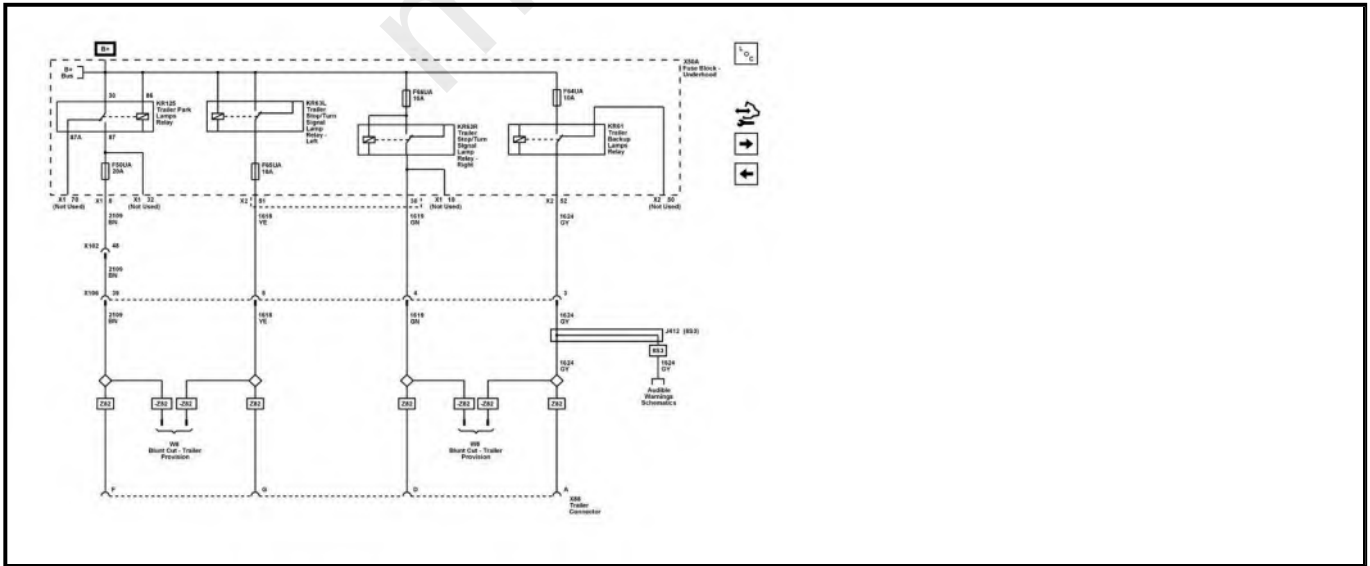




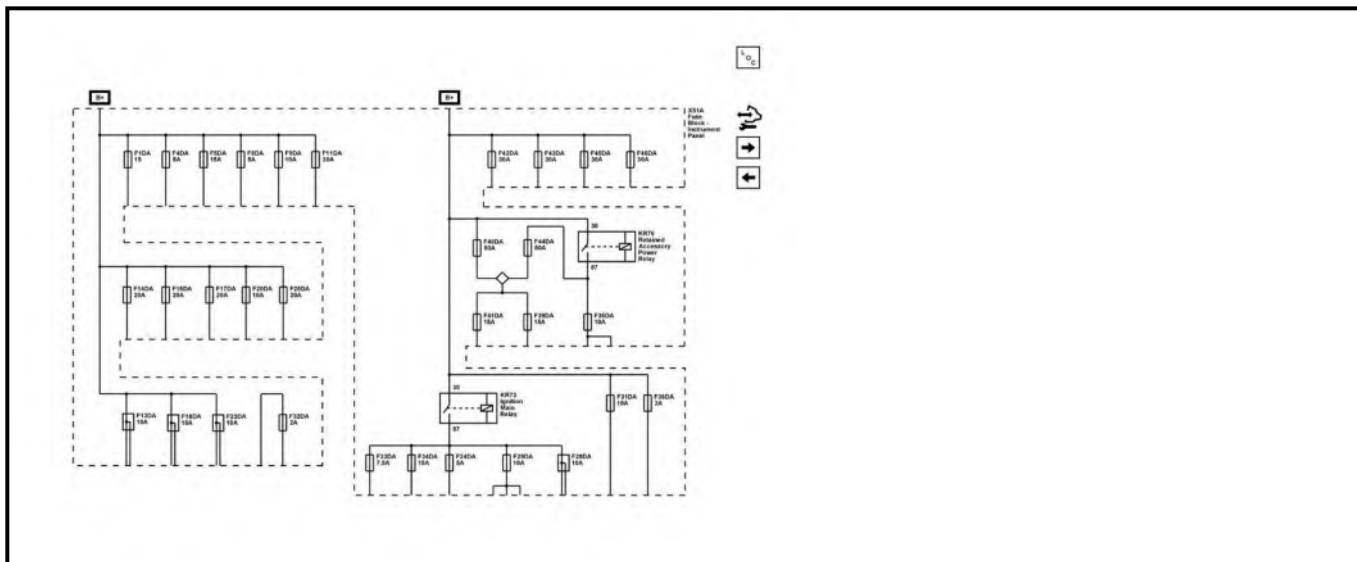
F37UA, F38UA, F40UA, F48UA, F51UA, and F56UA Fuses



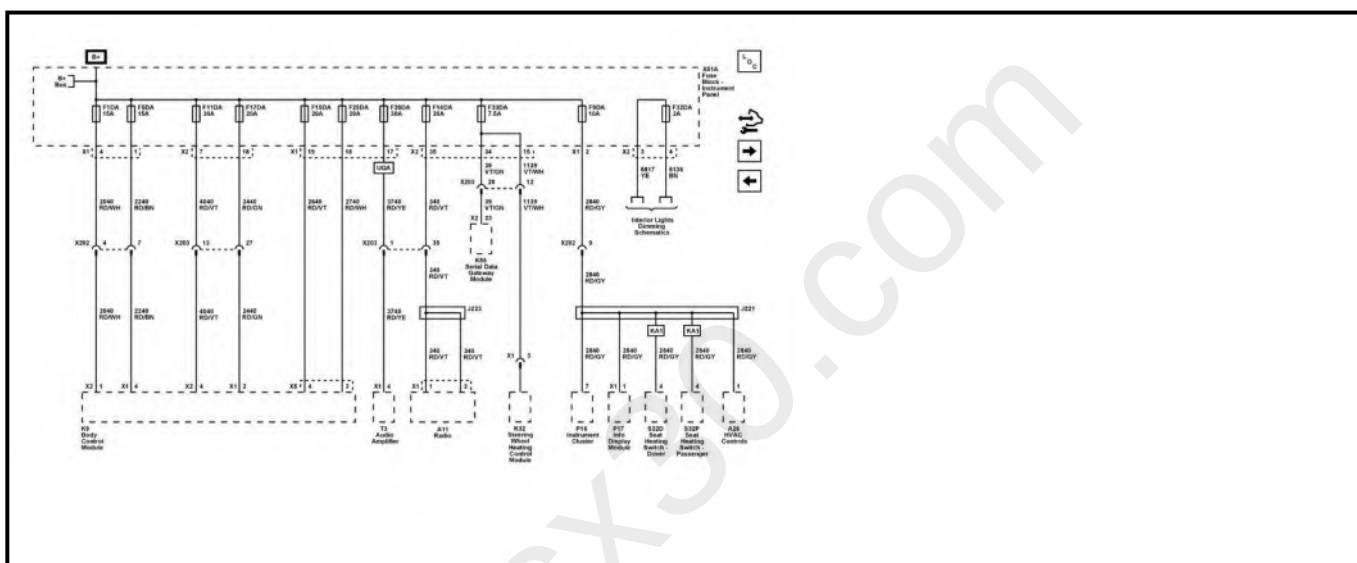
F50UA, F64UA, F65UA, and F66UA Fuses



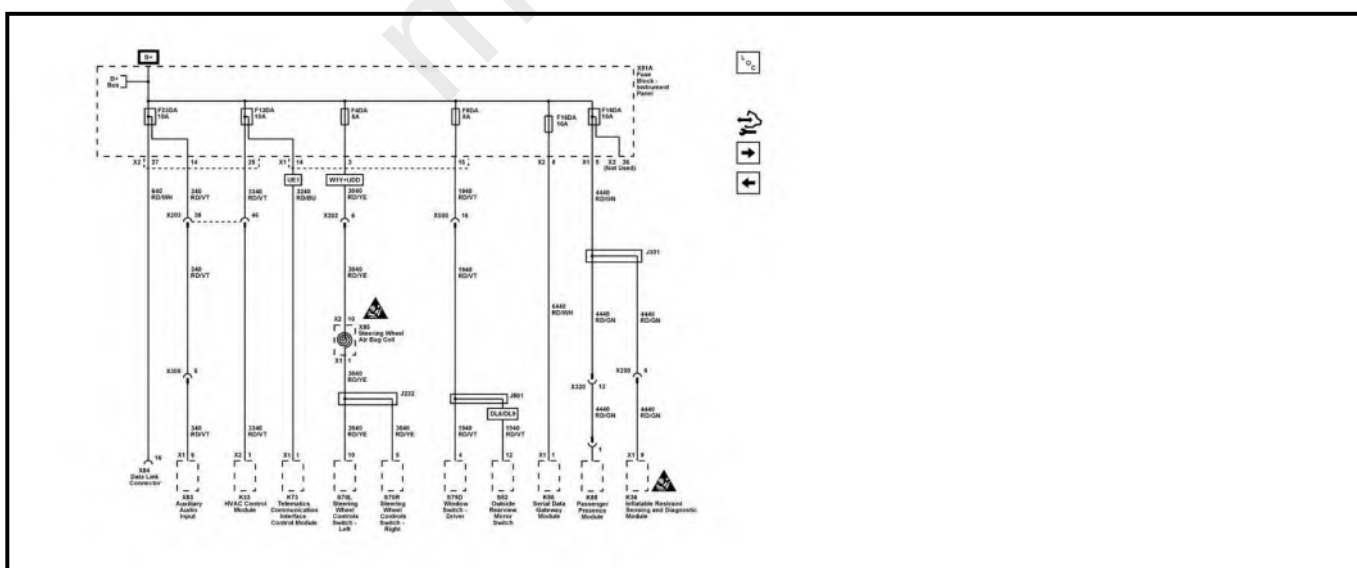
X51A Fuse Block - Instrument Panel Bussing



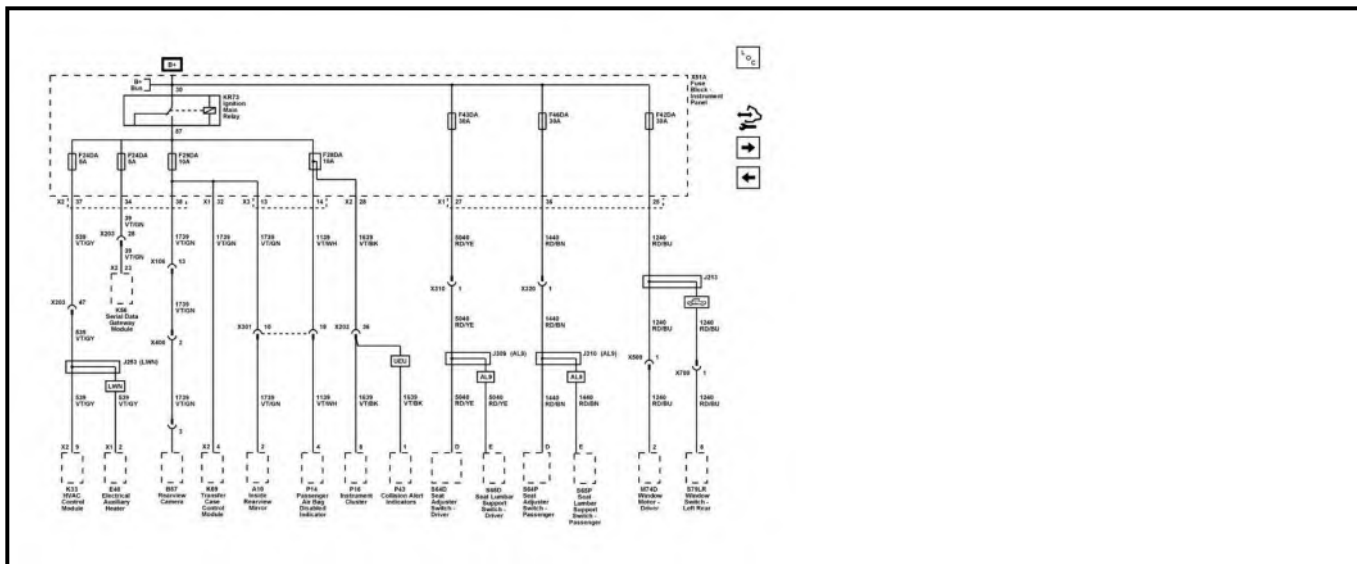
**F1DA, F5DA, F9DA, F11DA, F14DA, F15DA, F17DA, F20DA, F25DA, F32DA and F33DA Fuses**



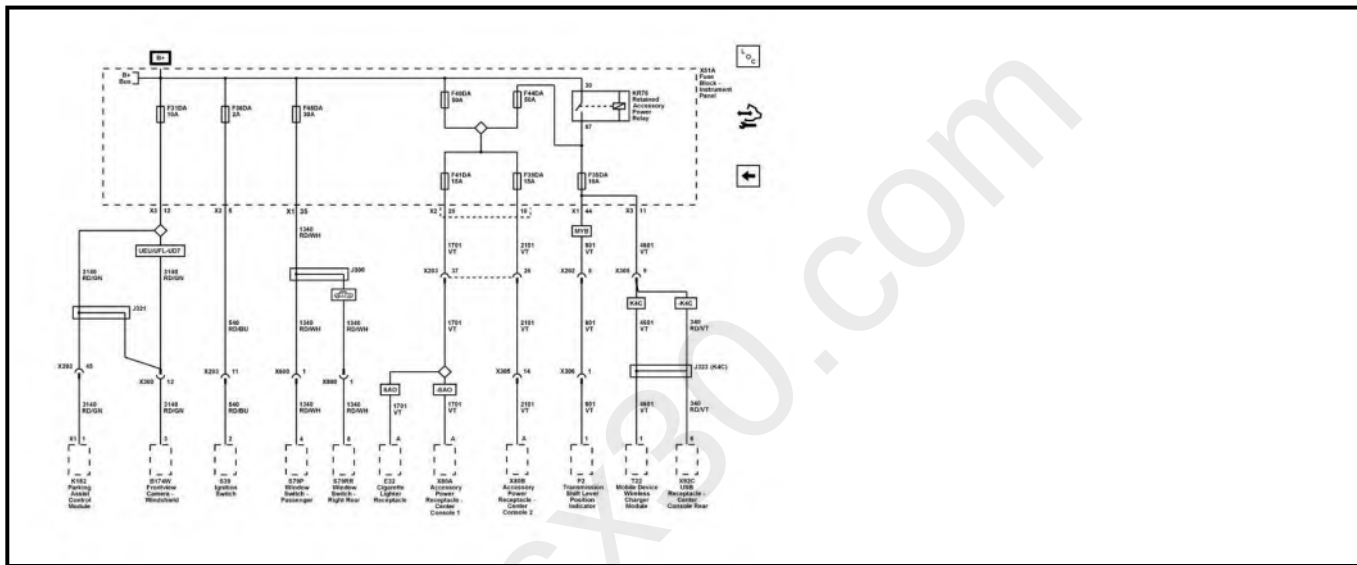
**F4DA, F8DA, F13DA, F16DA, F18DA, and F23DA Fuses**



**F24DA, F28DA, F29DA, F42DA, F43DA, and F46DA Fuses**

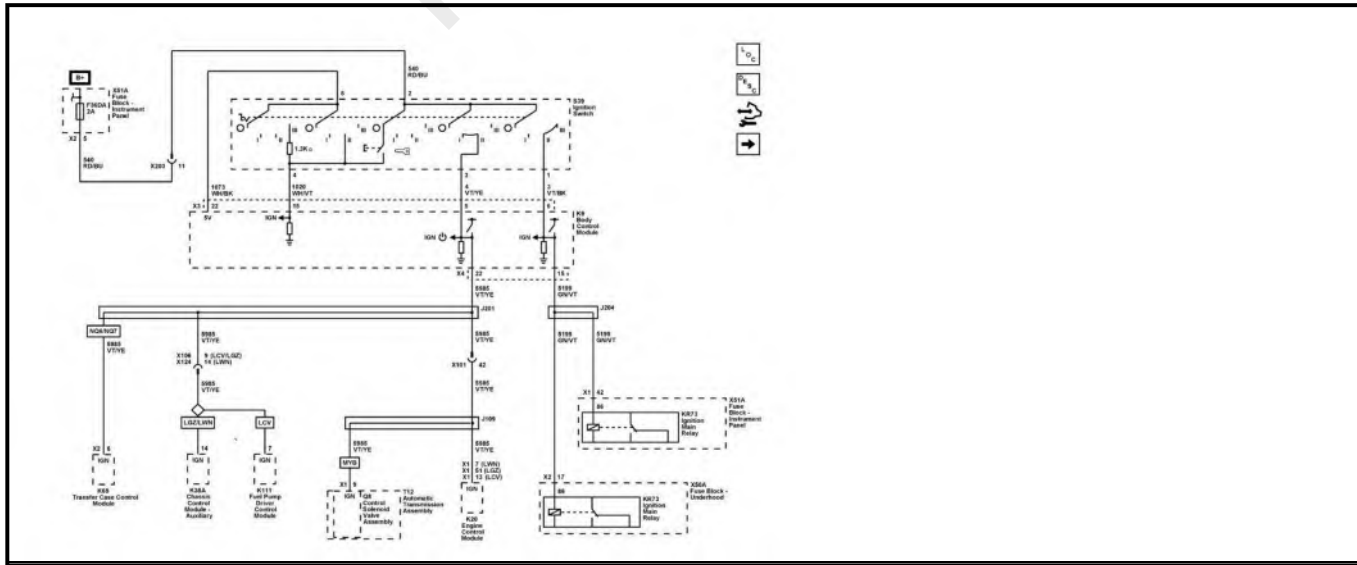


F31DA, F35DA, F36DA, F39DA, F40DA, F41DA, F44DA, and F45DA Fuses

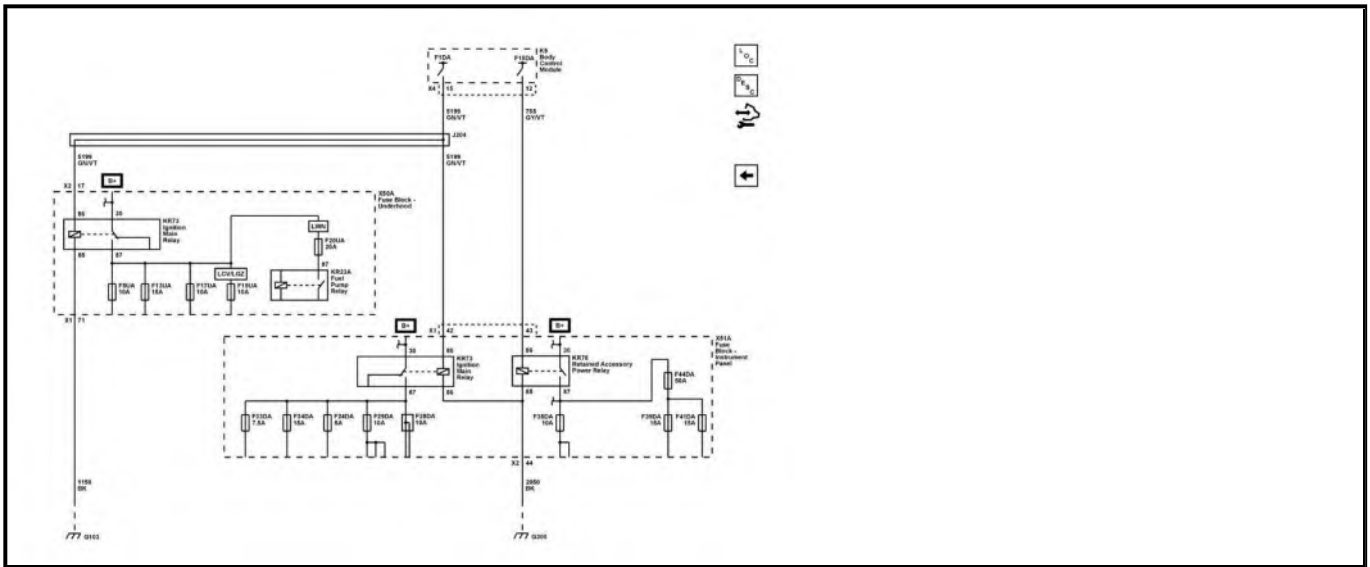


POWER MODING WIRING SCHEMATICS

Ignition Switch

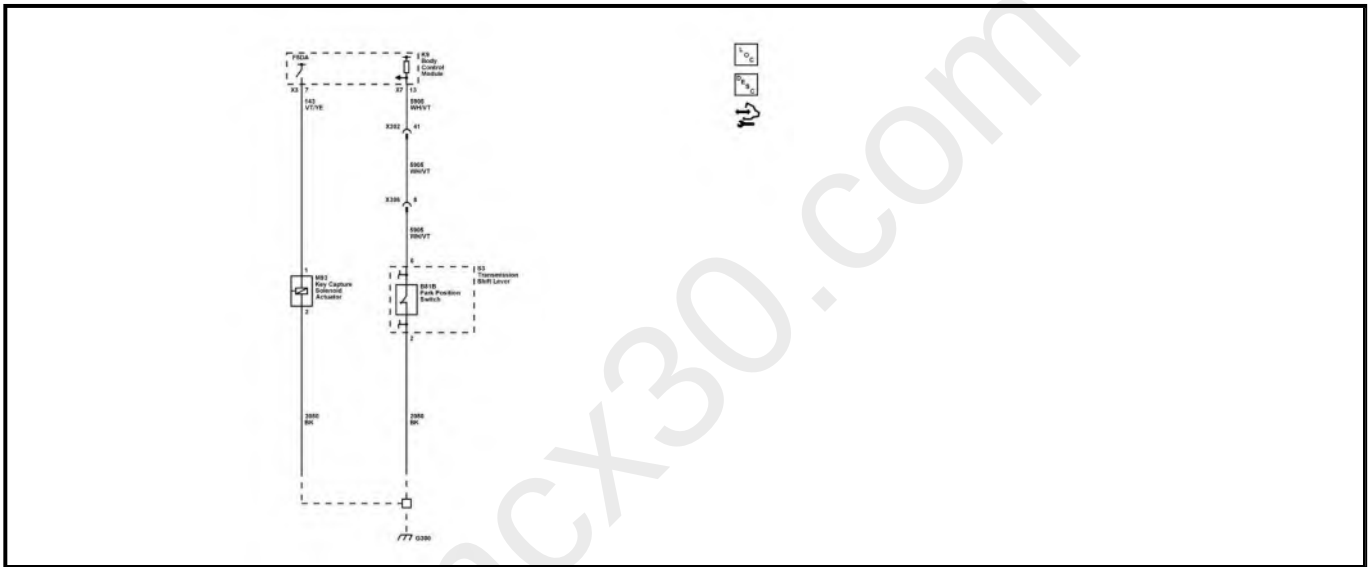


KR73 Ignition Main Relays and Accessory Power



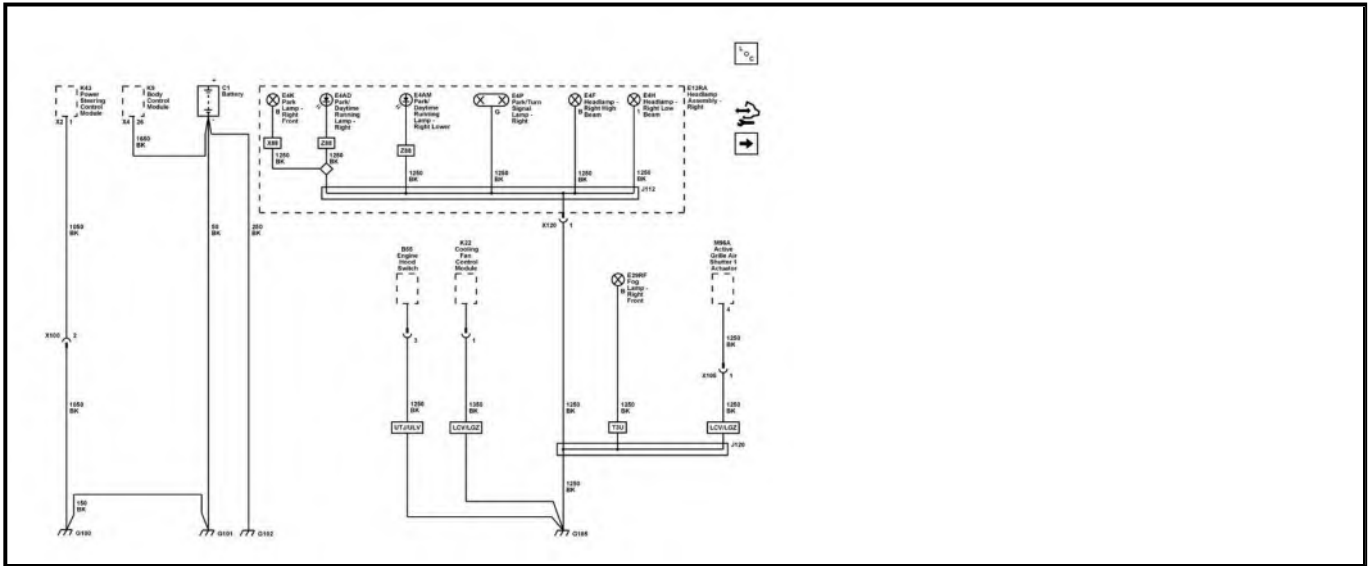
## IGNITION LOCK WIRING SCHEMATICS

Key Capture, and Park Position Switch



## GROUND DISTRIBUTION WIRING SCHEMATICS

G100, G101, G102, and G105



G103

