

SECTION **PG**

POWER SUPPLY, GROUND & CIRCUIT ELEMENTS

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PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

INFOID:000000008487448

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes dual stage front air bag modules. The SRS system may only deploy one front air bag, depending on the severity of a collision and whether the front passenger seat is occupied. Information necessary to service the system safely is included in the SR and SB section of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SR section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

WARNING:

- When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors with the Ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the Ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

PREPARATION

< PREPARATION >

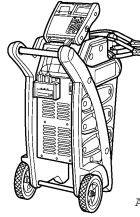
PREPARATION

PREPARATION

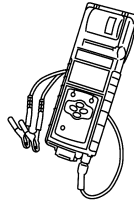
Special Service Tools

INFOID:000000007914947

| Tool number (Kent-Moore No.) Tool name | Description |
|--|--|
| — (—) Model GR8-1200 NI Multitasking battery and electrical diagnostic station | Tests batteries, starting and charging systems and charges batteries. For operating instructions, refer to diagnostic station instruction manual. |
| — (—) Model EXP-800 NI Battery and electrical diagnostic analyzer | Tests batteries and charging systems. For operating instructions, refer to diagnostic analyzer instruction manual. |



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JSMIA0806ZZ

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COMPONENT PARTS

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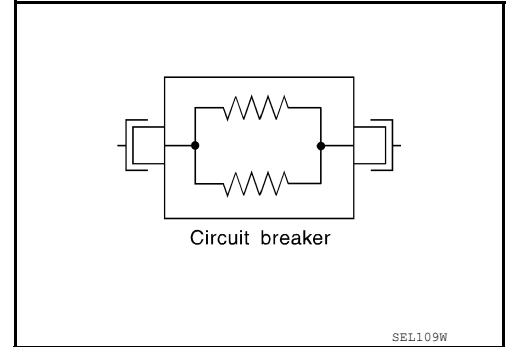
SYSTEM DESCRIPTION

COMPONENT PARTS

Circuit Breaker

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The PTC thermistor generates heat in response to current flow. The temperature (and resistance) of the thermistor element varies with current flow. Excessive current flow will cause the element's temperature to rise. When the temperature reaches a specified level, the electrical resistance will rise sharply to control the circuit current. Reduced current flow will cause the element to cool. Resistance falls accordingly and normal circuit current flow is allowed to resume.



Battery

INFOID:000000007914949

| | | |
|---|----------|---------|
| Type | | 115D31R |
| 20 hour rate capacity | [V - Ah] | 12 - 82 |
| Cold cranking current (For reference value) | [A] | 782 |

Harness Connector

INFOID:000000007914950

HARNESS CONNECTOR (TAB-LOCKING TYPE)

- The tab-locking type connectors help prevent accidental looseness or disconnection.
- The tab-locking type connectors are disconnected by pushing or lifting the locking tab(s). Refer to the figure below.

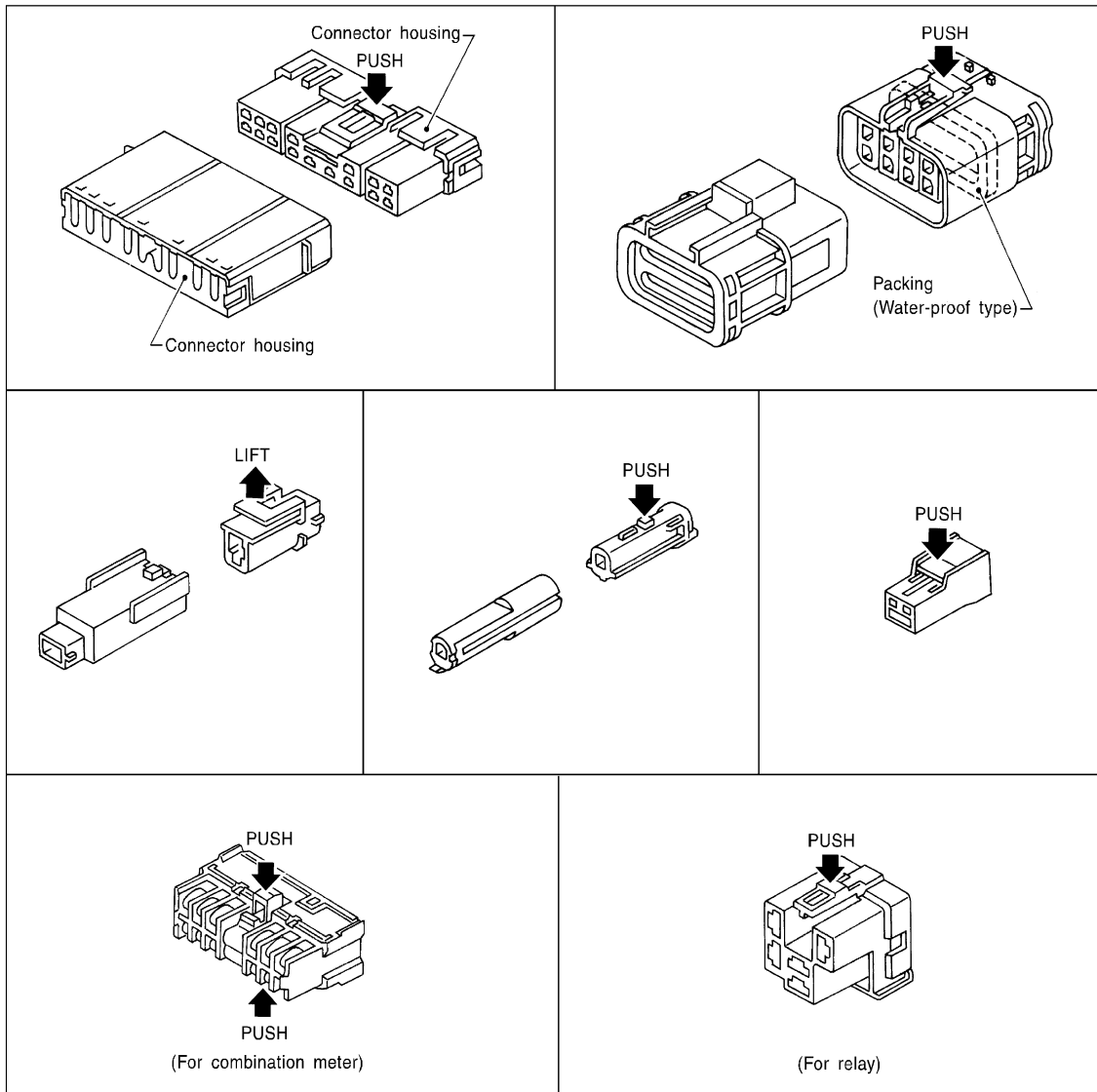
CAUTION:

Never pull the harness or wires when disconnecting the connector.

COMPONENT PARTS

< SYSTEM DESCRIPTION >

[Example]



SEL769DA

HARNESS CONNECTOR (SLIDE-LOCKING TYPE)

- A new style slide-locking type connector is used on certain systems and components, especially those related to OBD.
- The slide-locking type connectors help prevent incomplete locking and accidental looseness or disconnection.
- The slide-locking type connectors are disconnected by pushing or pulling the slider. Refer to the figure below.

CAUTION:

- **Never pull the harness or wires when disconnecting the connector.**
- **Be careful not to damage the connector support bracket when disconnecting the connector.**

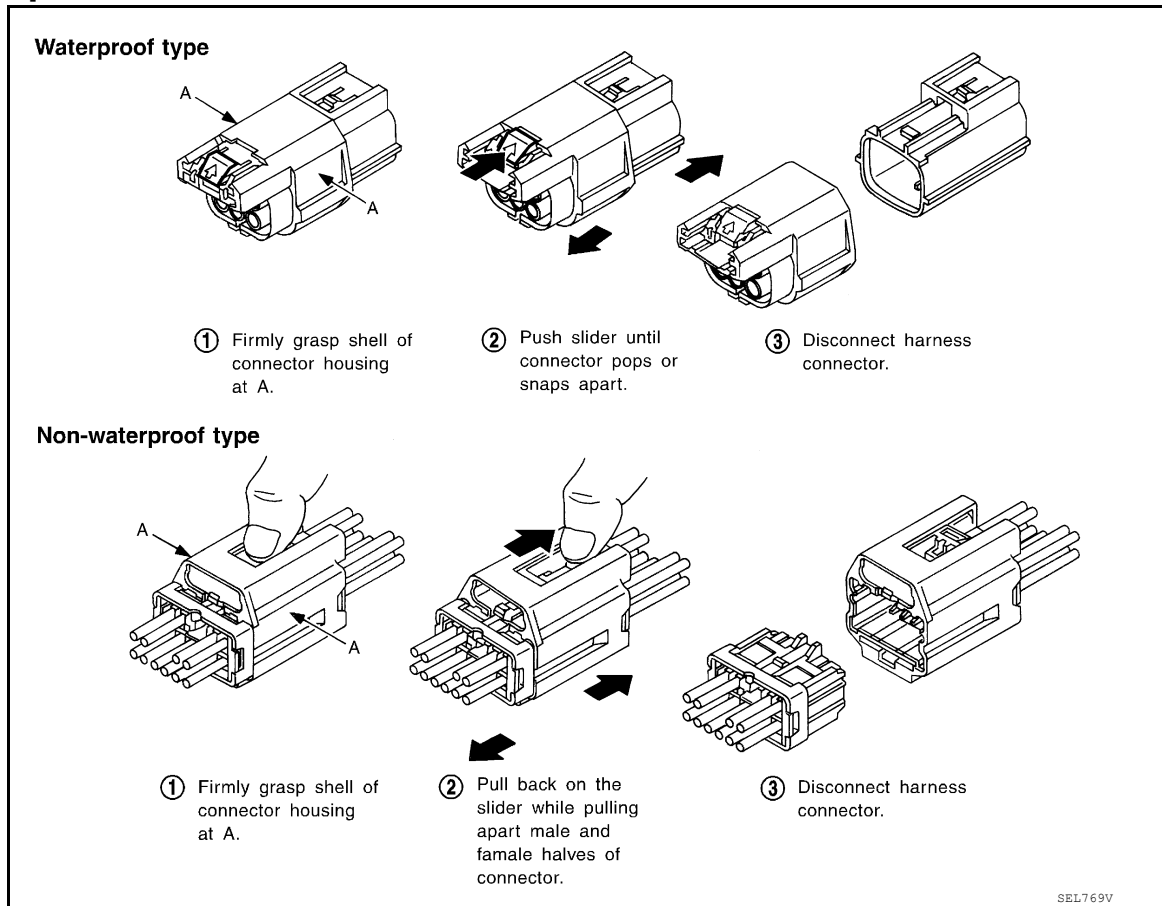
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COMPONENT PARTS

< SYSTEM DESCRIPTION >

[Example]



HARNESS CONNECTOR (LEVER LOCKING TYPE)

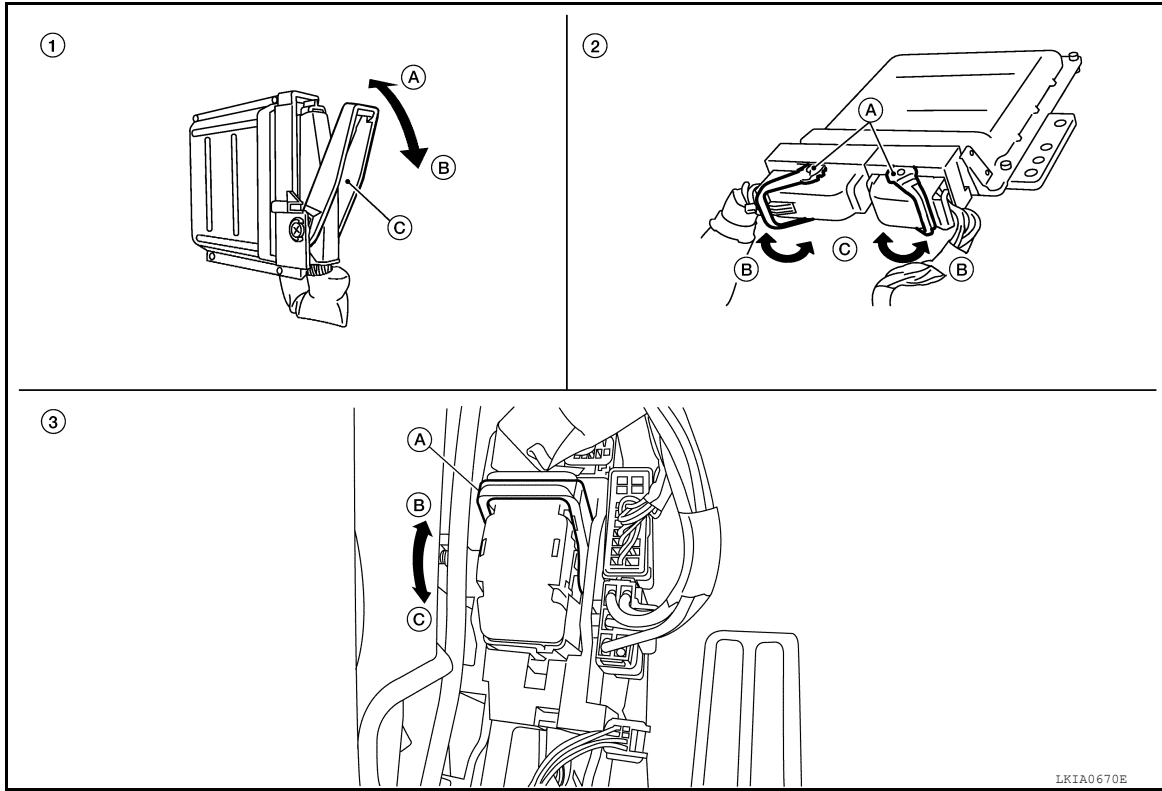
- Lever locking type harness connectors are used on certain control units and control modules such as ECM, ABS actuator and electric unit (control unit), etc.
- Lever locking type harness connectors are also used on super multiple junction (SMJ) connectors.
- Always confirm the lever is fully locked in place by moving the lever as far as it will go to ensure full connection.

CAUTION:

COMPONENT PARTS

< SYSTEM DESCRIPTION >

Always confirm the lever is fully released (loosened) before attempting to disconnect or connect these connectors to avoid damage to the connector housing or terminals.



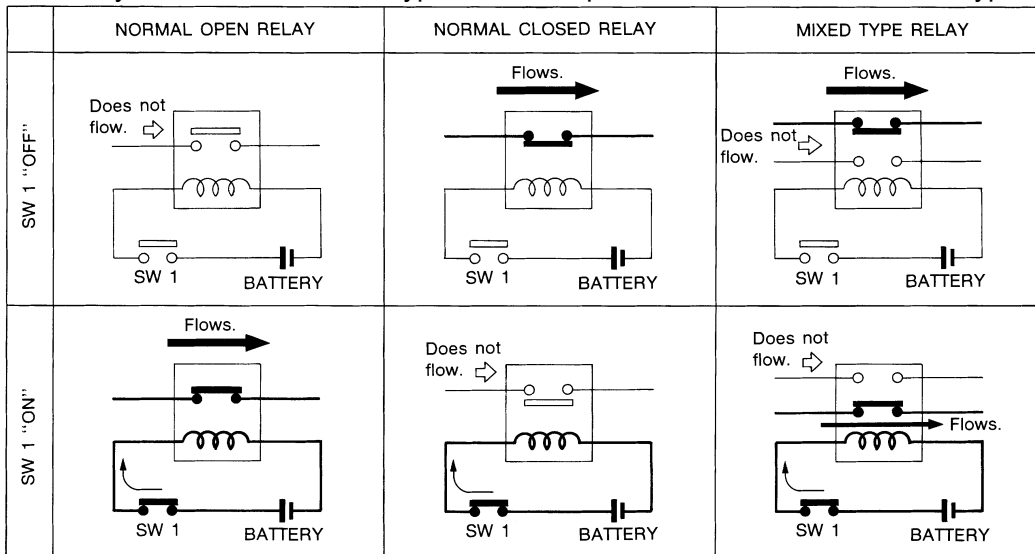
- | | | |
|---|---|--|
| <p>1. Control unit with single lever</p> <ul style="list-style-type: none"> A. Fasten B. Loosen C. Lever | <p>2. Control unit with dual levers</p> <ul style="list-style-type: none"> A. Levers B. Fasten C. Loosen | <p>3. SMJ connector</p> <ul style="list-style-type: none"> A. Lever B. Fasten C. Loosen |
|---|---|--|

Standardized Relay

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NORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

Relays can mainly be divided into three types: normal open, normal closed and mixed type relays.



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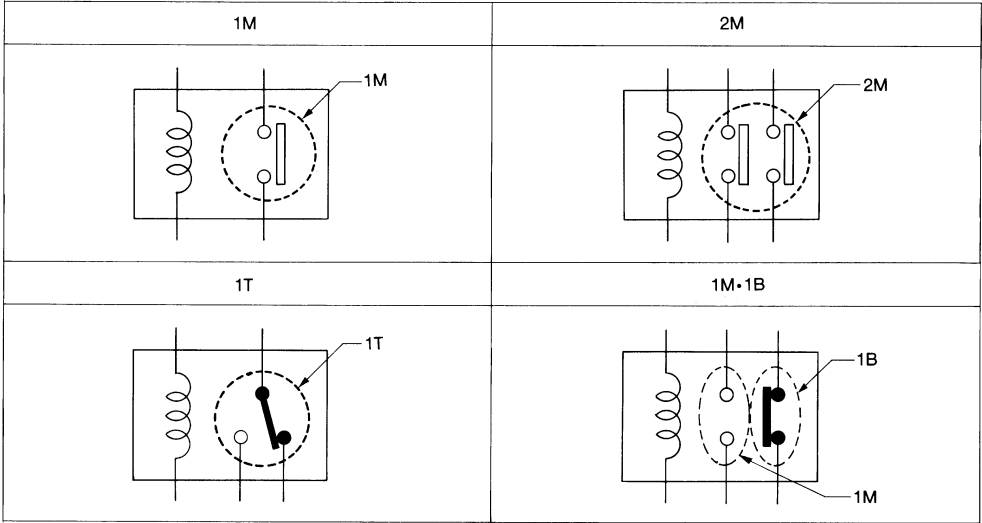
TYPE OF STANDARDIZED RELAYS

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COMPONENT PARTS

< SYSTEM DESCRIPTION >

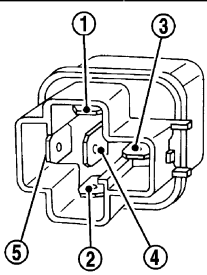
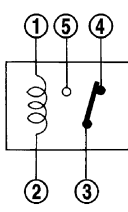
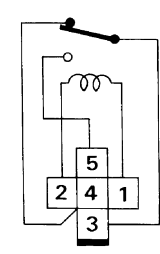
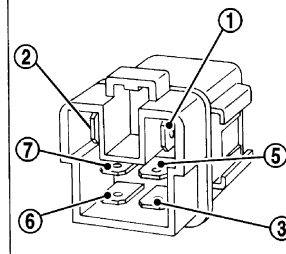
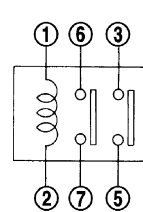
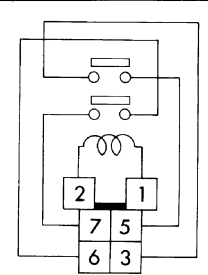
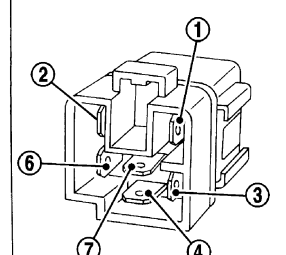
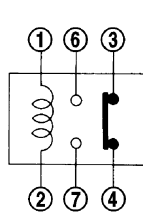
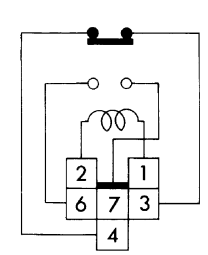
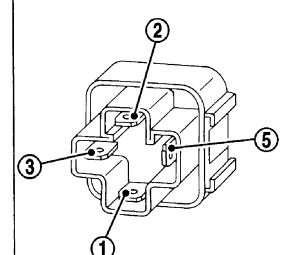
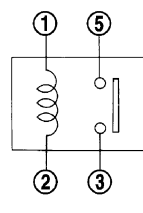
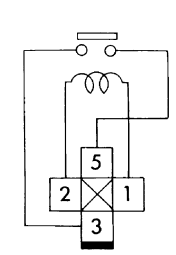
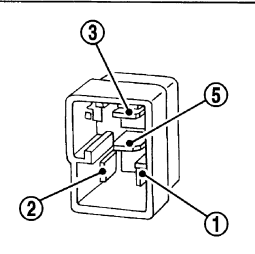
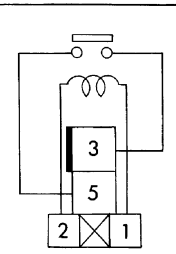
- 1M 1 Make
- 1T 1 Transfer
- 2M 2 Make
- 1M·1B 1 Make 1 Break



SEL882H

COMPONENT PARTS

< SYSTEM DESCRIPTION >

| Type | Outer view | Circuit | Connector symbol and connection | Case color |
|-------|---|---|--|------------|
| 1T |  |  |  | BLACK |
| 2M |  |  |  | BROWN |
| 1M•1B |  |  |  | GRAY |
| 1M |  |  |  | BLUE |
| |  | |  | |

The arrangement of terminal numbers on the actual relays may differ from those shown above.

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POWER SUPPLY ROUTING CIRCUIT

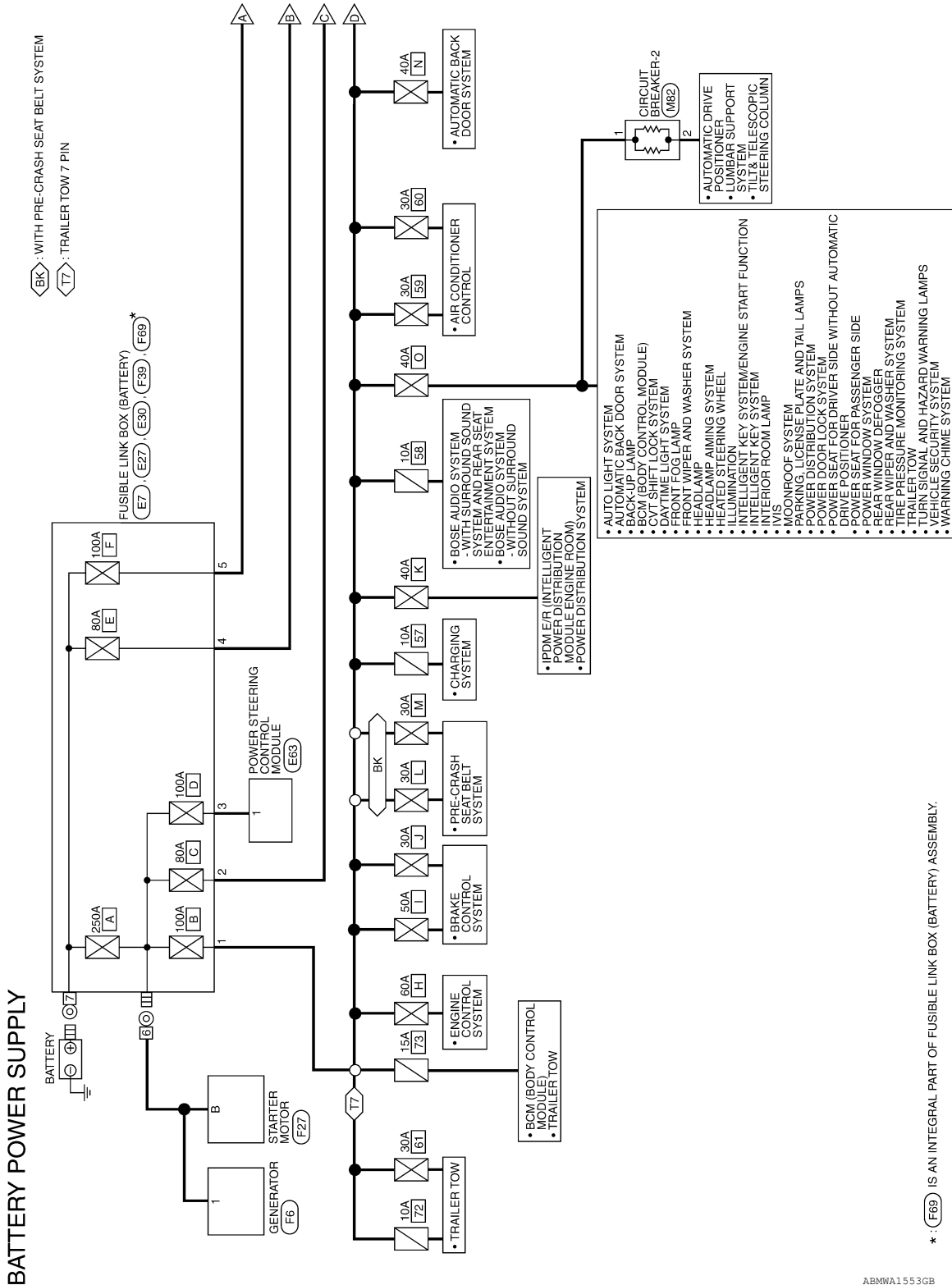
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WIRING DIAGRAM

POWER SUPPLY ROUTING CIRCUIT

Wiring Diagram - BATTERY POWER SUPPLY -

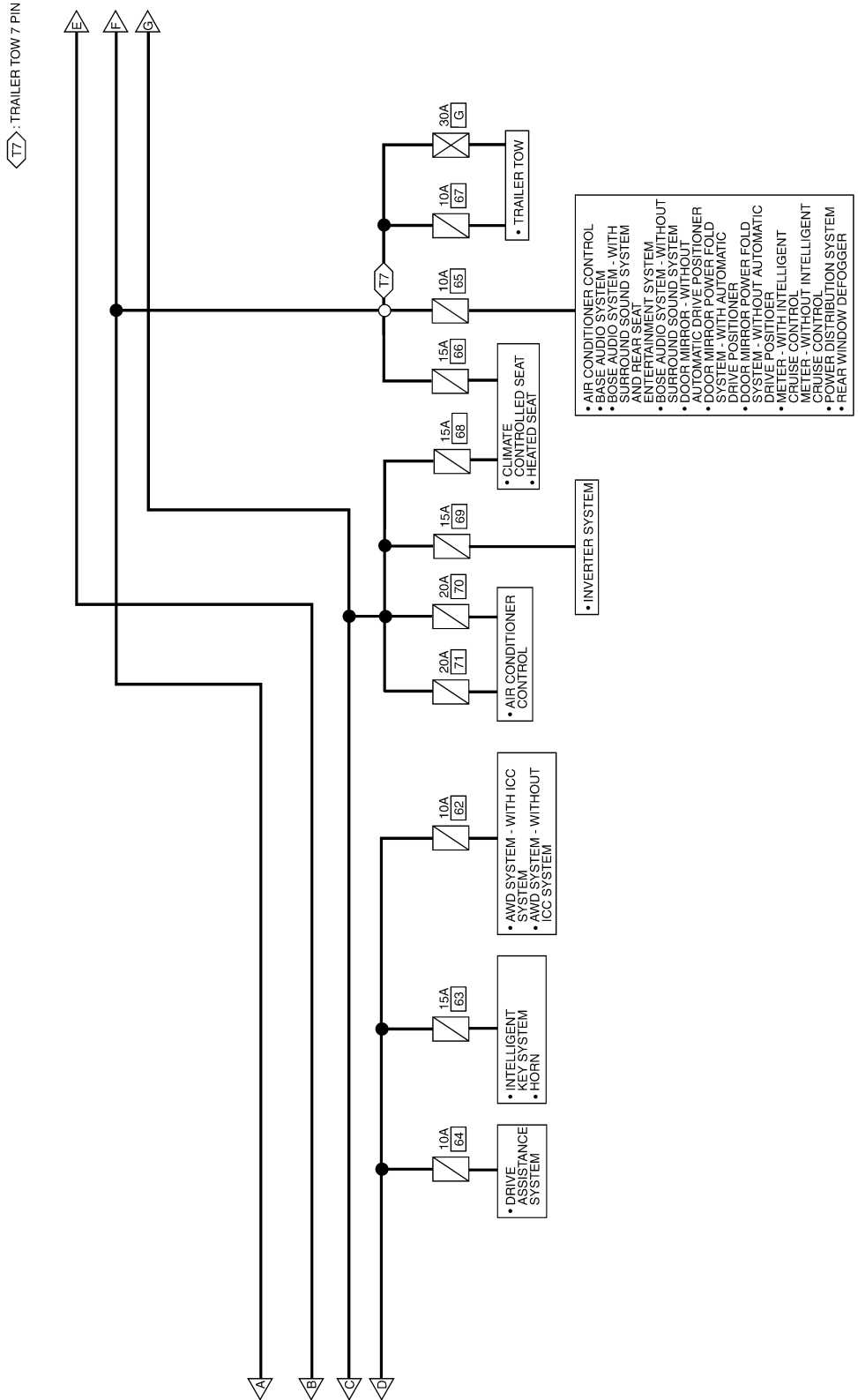
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POWER SUPPLY ROUTING CIRCUIT

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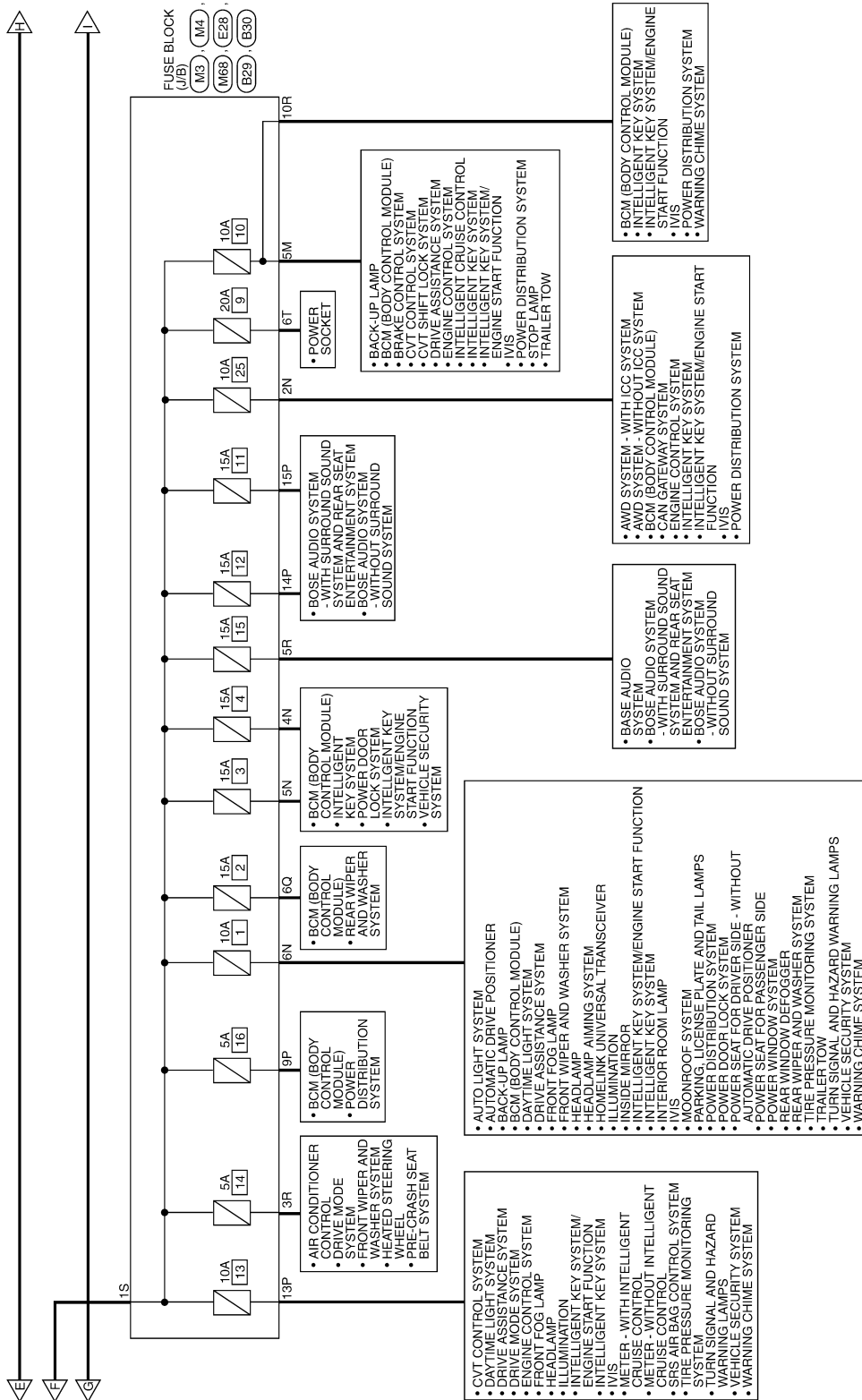


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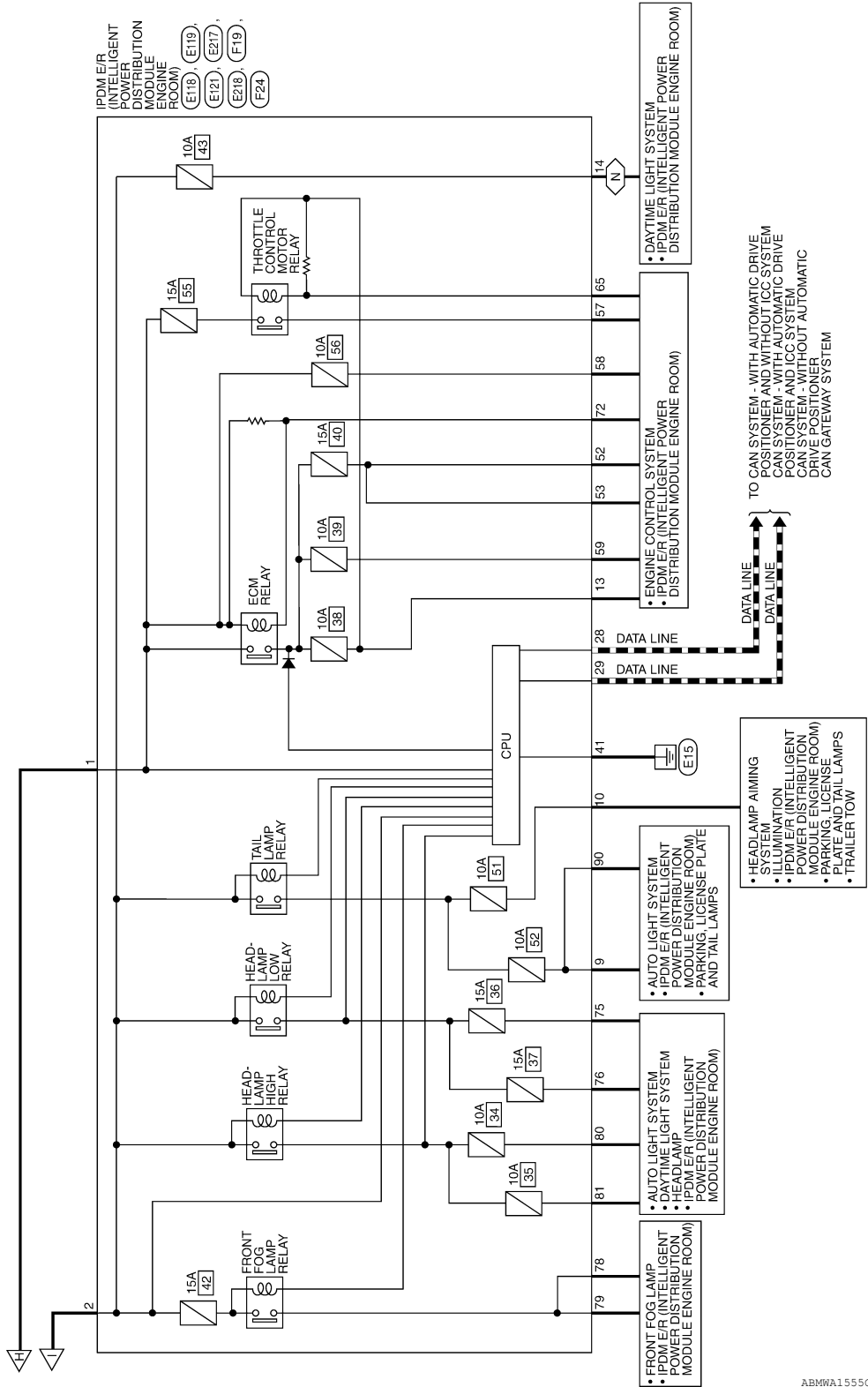


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POWER SUPPLY ROUTING CIRCUIT

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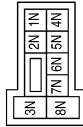
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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

BATTERY POWER SUPPLY CONNECTORS

| | |
|-----------------|------------------|
| Connector No. | M3 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 2N | BG | - |
| 4N | V | - |
| 5N | Y | - |
| 6N | W | - |

| | |
|-----------------|------------------|
| Connector No. | M4 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 9P | L | - |
| 13P | W | - |
| 14P | Y | - |
| 15P | L | - |

| | |
|-----------------|------------------|
| Connector No. | M68 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Color | BROWN |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 3R | G | - |
| 5R | Y | - |
| 10R | W | - |

| | |
|-----------------|-------------------|
| Connector No. | M82 |
| Connector Name | CIRCUIT BREAKER-2 |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | W | - |
| 2 | L | - |

| | |
|-----------------|----------------------------|
| Connector No. | E7 |
| Connector Name | FUSIBLE LINK BOX (BATTERY) |
| Connector Color | GRAY |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 3 | W | - |
| 4 | R | - |

| | |
|-----------------|----------------------------|
| Connector No. | E27 |
| Connector Name | FUSIBLE LINK BOX (BATTERY) |
| Connector Color | BROWN |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | W | - |
| 2 | L | - |

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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

| | |
|-----------------|-------------------------------|
| Connector No. | E63 |
| Connector Name | POWER STEERING CONTROL MODULE |
| Connector Color | BLUE |



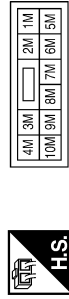
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | W | +B |

| | |
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| Connector No. | E30 |
| Connector Name | FUSE LINK BOX (BATTERY) |
| Connector Color | BLACK |



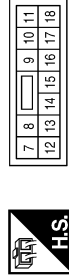
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 5 | W | - |

| | |
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| Connector No. | E28 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Color | WHITE |



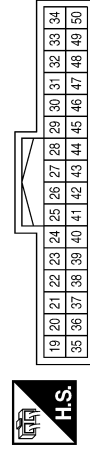
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 5M | G | - |

| | |
|-----------------|--|
| Connector No. | E121 |
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 9 | G | TAIL RH |
| 10 | L | TAIL LH |
| 13 | LG | ECM VB |
| 14 | V | DTRL |

| | |
|-----------------|--|
| Connector No. | E119 |
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|--------------|
| 41 | B | GND (SIGNAL) |

| | |
|-----------------|--|
| Connector No. | E118 |
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Color | BLACK |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | R | F/L MAIN |
| 2 | L | F/L USM |

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POWER SUPPLY ROUTING CIRCUIT

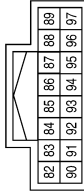
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| Connector No. | F6 |
| Connector Name | GENERATOR |
| Connector Color | - |



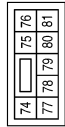
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|--------------|---|---------------|-----|-------------|---|
| Terminal No. | 1 | Color of Wire | B/R | Signal Name | - |
|--------------|---|---------------|-----|-------------|---|

| | |
|-----------------|--|
| Connector No. | E218 |
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Color | WHITE |



| | | | | | |
|--------------|----|---------------|----|-------------|-----------|
| Terminal No. | 90 | Color of Wire | LG | Signal Name | CLEARANCE |
|--------------|----|---------------|----|-------------|-----------|

| | |
|-----------------|--|
| Connector No. | E217 |
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Color | WHITE |



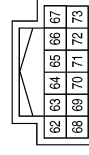
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|----------------|
| 75 | R | HEADLAMP LO RH |
| 76 | L | HEADLAMP LO LH |
| 78 | W | FR FOG LAMP RH |
| 79 | L | FR FOG LAMP LH |
| 80 | W | HEADLAMP HI RH |
| 81 | G | HEADLAMP HI LH |

| | |
|-----------------|---------------|
| Connector No. | F27 |
| Connector Name | STARTER MOTOR |
| Connector Color | - |



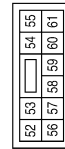
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| Terminal No. | B | Color of Wire | B/R | Signal Name | BATT |
|--------------|---|---------------|-----|-------------|------|

| | |
|-----------------|--|
| Connector No. | F24 |
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Color | WHITE |



| | | | | | |
|--------------|----|---------------|---|-------------|--------|
| Terminal No. | 65 | Color of Wire | G | Signal Name | MOTRLY |
| | 72 | | V | | SSOFF |

| | |
|-----------------|--|
| Connector No. | F19 |
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Color | WHITE |



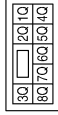
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 52 | W | O2SENS #2 |
| 53 | W | O2SENS #1 |
| 57 | R | ETC |
| 58 | GR | ECM BAT |
| 59 | L | ENG SOL |

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POWER SUPPLY ROUTING CIRCUIT

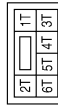
< WIRING DIAGRAM >

| | |
|-----------------|------------------|
| Connector No. | B30 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Color | WHITE |



| | | |
|--------------|---------------|-------------|
| Terminal No. | Color of Wire | Signal Name |
| 6Q | P | - |

| | |
|-----------------|------------------|
| Connector No. | B29 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Color | WHITE |



| | | |
|--------------|---------------|-------------|
| Terminal No. | Color of Wire | Signal Name |
| 6T | L | - |

| | |
|-----------------|----------------------------|
| Connector No. | F39 |
| Connector Name | FUSIBLE LINK BOX (BATTERY) |
| Connector Color | - |



| | | |
|--------------|---------------|-------------|
| Terminal No. | Color of Wire | Signal Name |
| 6 | B/R | - |

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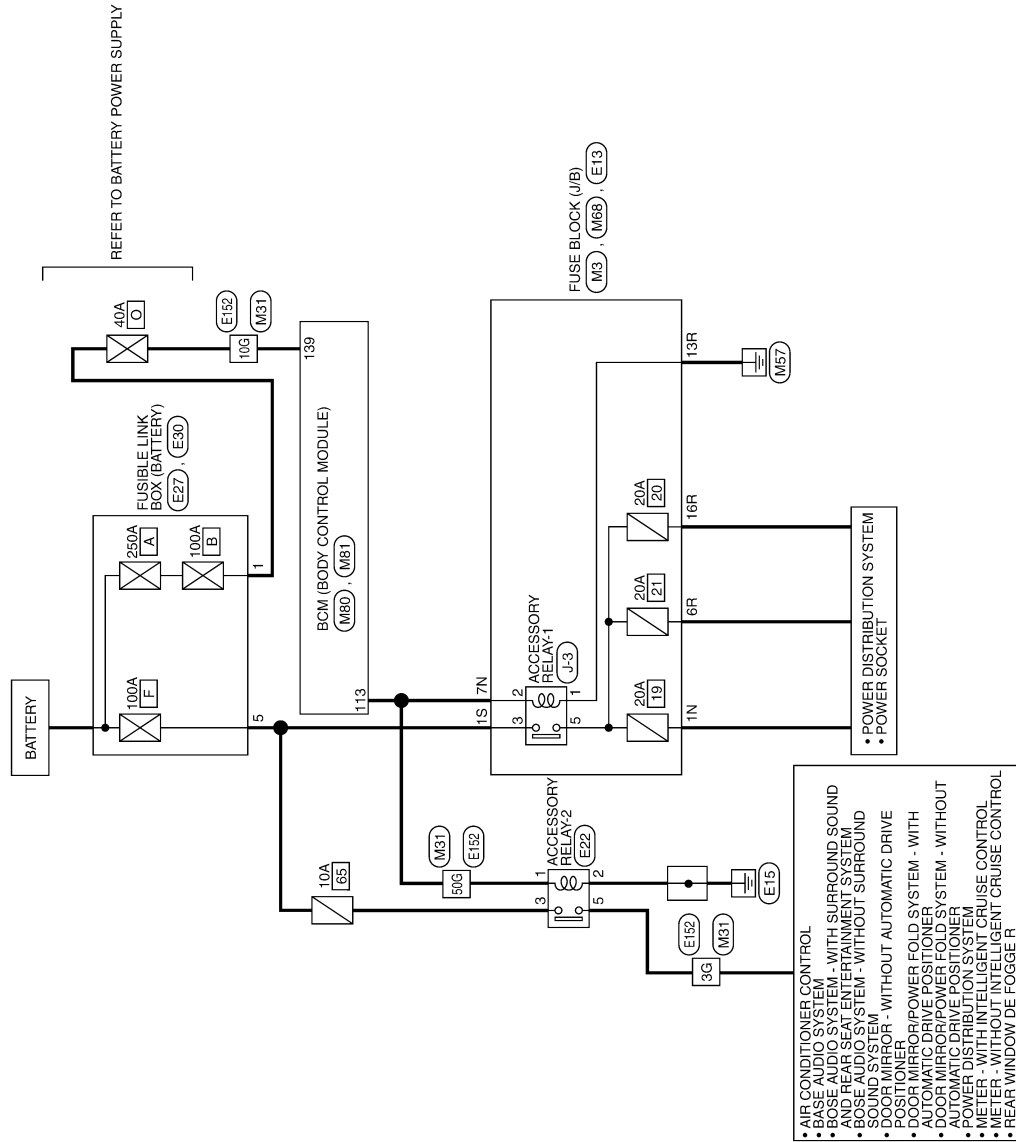
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - ACCESSORY POWER SUPPLY -

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ACCESSORY POWER SUPPLY



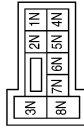
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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

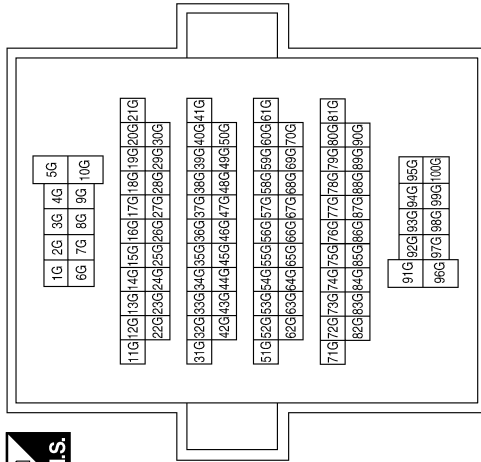
ACCESSORY POWER SUPPLY CONNECTORS

| | |
|-----------------|------------------|
| Connector No. | M3 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1N | LG | - |
| 7N | L | - |

| | |
|-----------------|--------------|
| Connector No. | M31 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



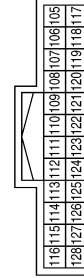
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 3G | P | - |
| 10G | W | - |
| 50G | L | - |

| | |
|-----------------|------------------|
| Connector No. | M68 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Color | BROWN |



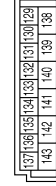
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 6R | Y | - |
| 13R | GR | - |
| 16R | BG | - |

| | |
|-----------------|---------------------------|
| Connector No. | M80 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Color | BLACK |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|---------------|
| 113 | L | ACC RELAY OUT |

| | |
|-----------------|---------------------------|
| Connector No. | M81 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|---------------|
| 139 | W | BAT POWER F/L |

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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

| | |
|-----------------|----------------------------|
| Connector No. | E27 |
| Connector Name | FUSIBLE LINK BOX (BATTERY) |
| Connector Color | BROWN |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | W | - |

| | |
|-----------------|-------------------|
| Connector No. | E22 |
| Connector Name | ACCESSORY RELAY-2 |
| Connector Color | BLUE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | G | - |
| 2 | B | - |
| 3 | R | - |
| 5 | P | - |

| | |
|-----------------|------------------|
| Connector No. | E13 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1S | W | - |

| | |
|-----------------|--------------|
| Connector No. | E152 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |

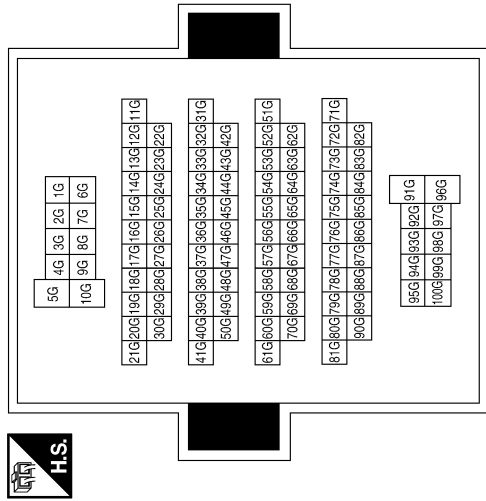


| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 3G | P | - |
| 10G | W | - |
| 50G | G | - |

| | |
|-----------------|----------------------------|
| Connector No. | E30 |
| Connector Name | FUSIBLE LINK BOX (BATTERY) |
| Connector Color | BLACK |



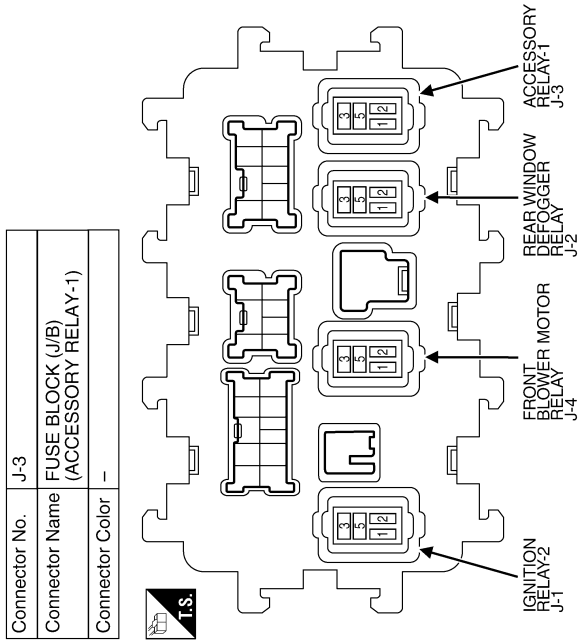
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 5 | W | - |



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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >



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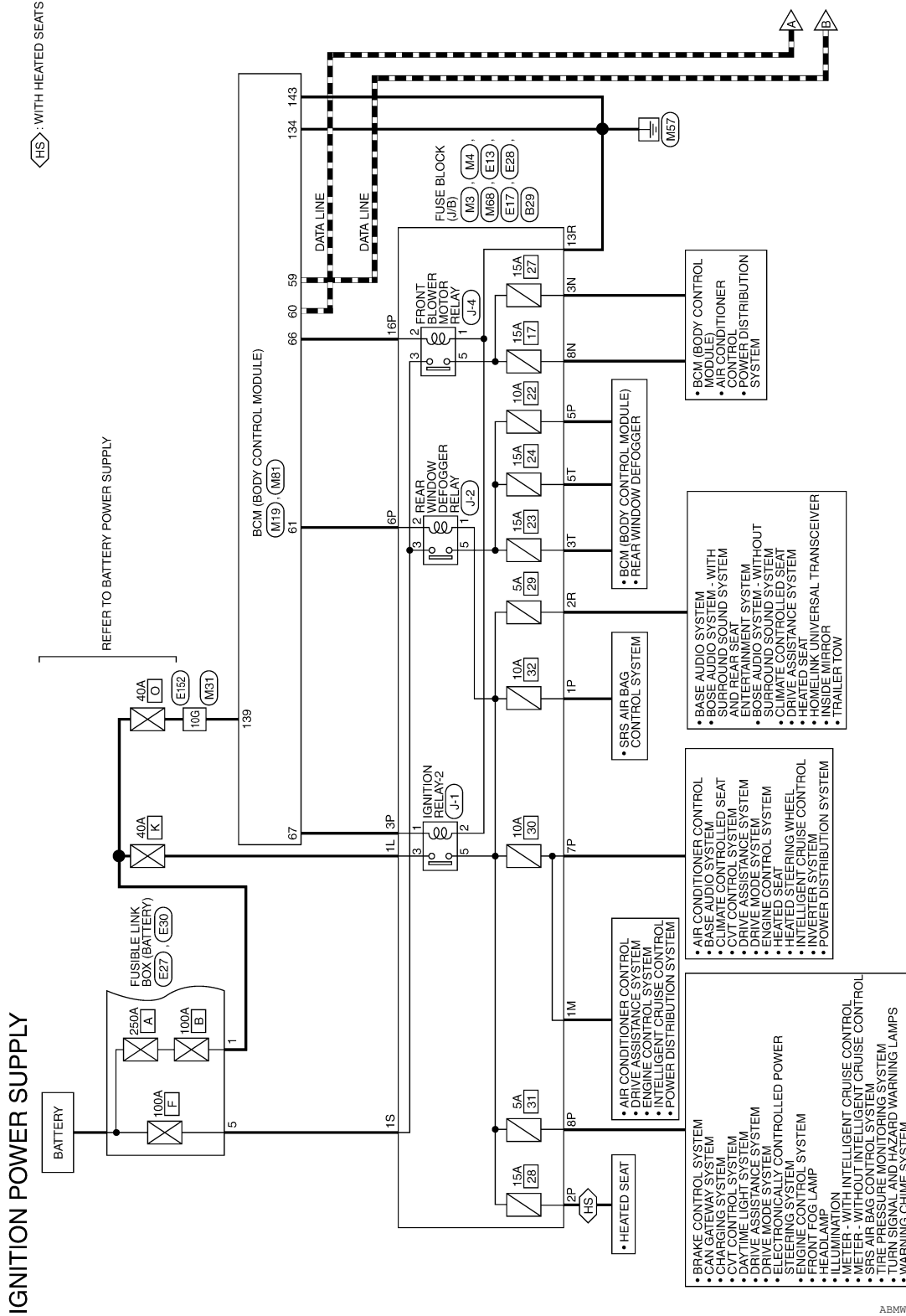
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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - IGNITION POWER SUPPLY -

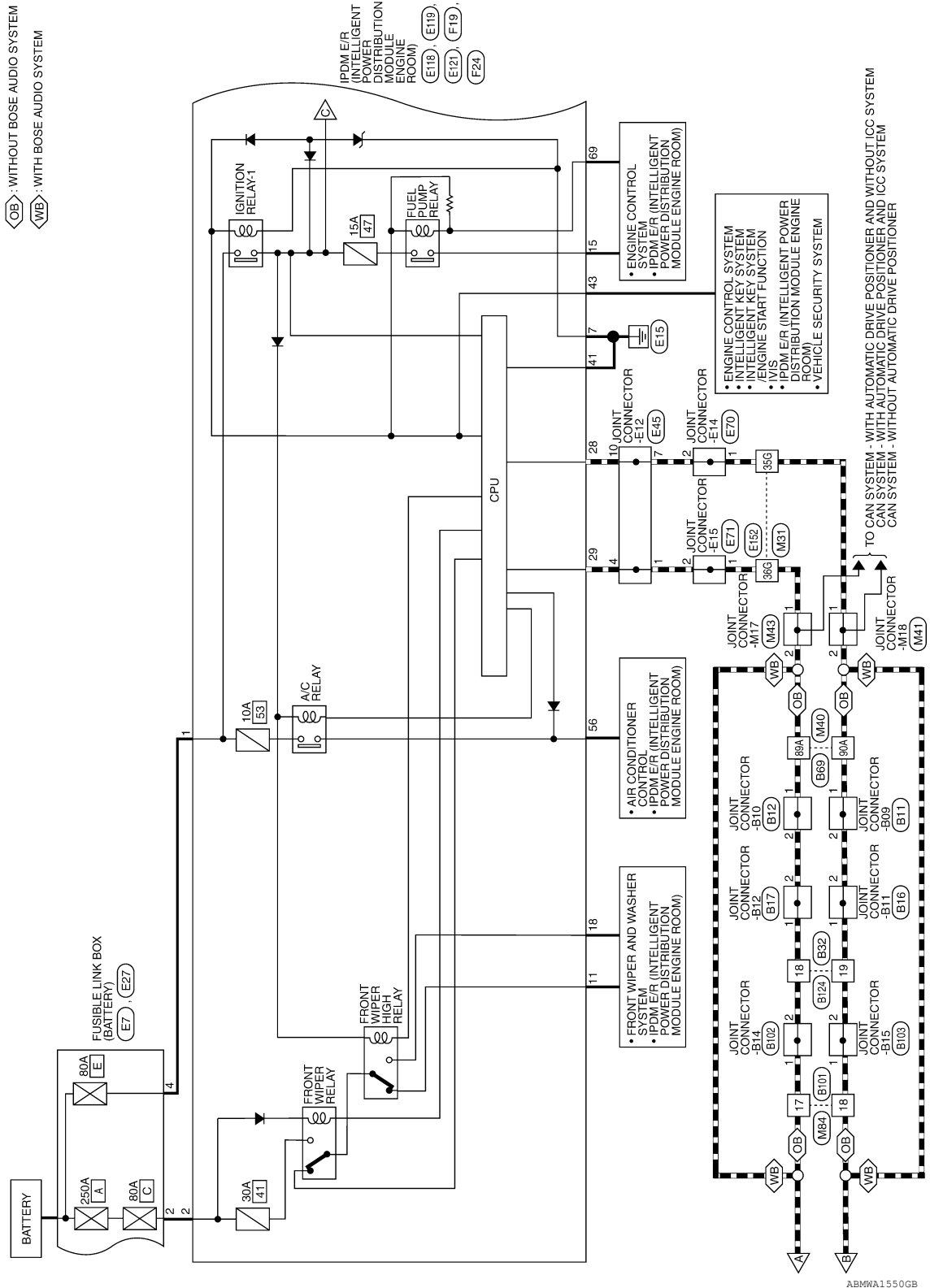
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POWER SUPPLY ROUTING CIRCUIT

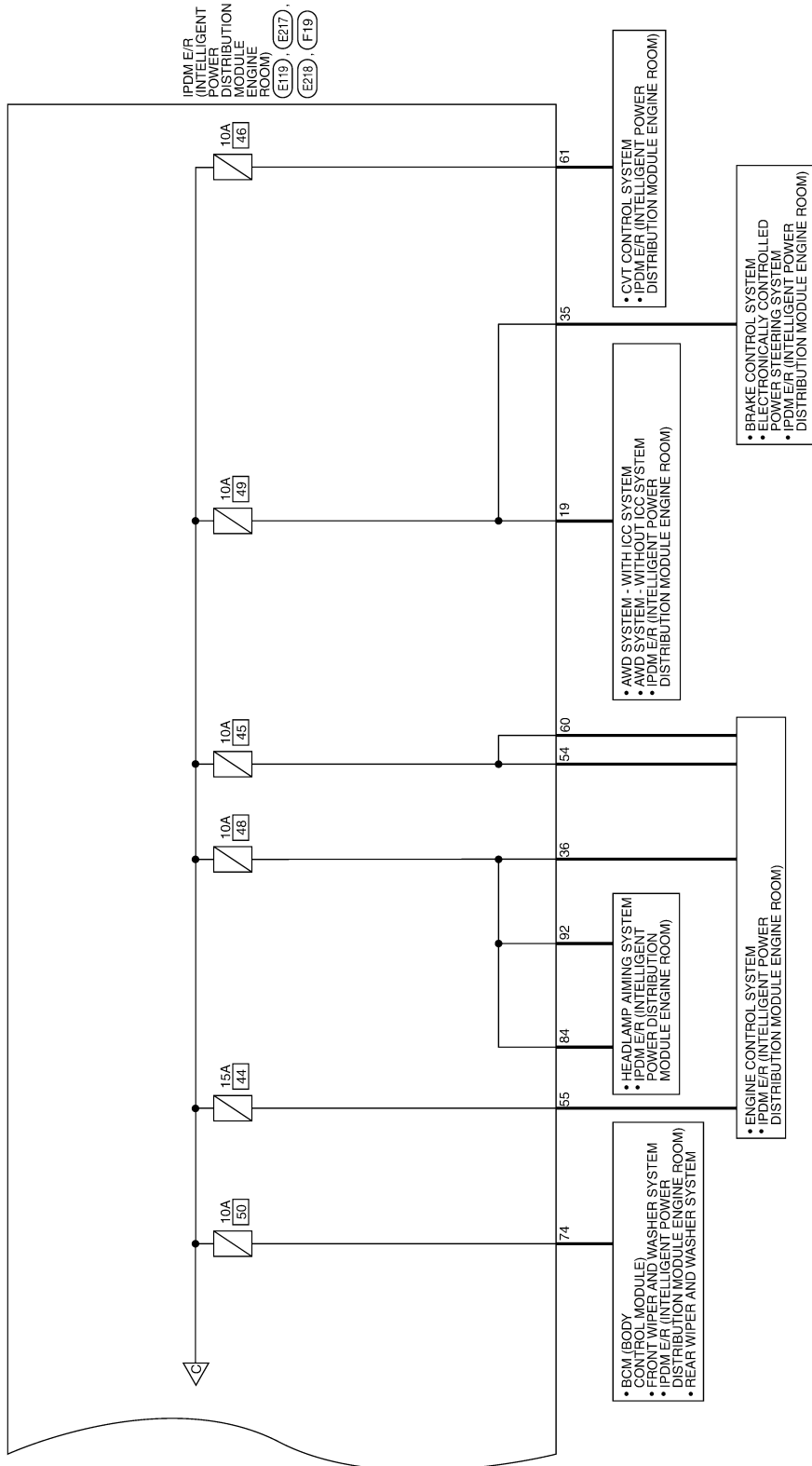
< WIRING DIAGRAM >



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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >



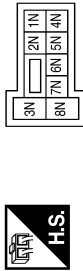
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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

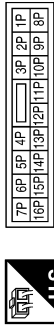
IGNITION POWER SUPPLY CONNECTORS

| | |
|-----------------|------------------|
| Connector No. | M3 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Color | WHITE |



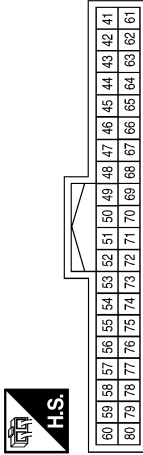
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 3N | L | - |
| 8N | L | - |

| | |
|-----------------|------------------|
| Connector No. | M4 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1P | R | - |
| 2P | LG | - |
| 3P | G | - |
| 5P | P | - |
| 6P | BG | - |
| 7P | LG | - |
| 8P | BG | - |
| 16P | W | - |

| | |
|-----------------|---------------------------|
| Connector No. | M19 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Color | BLACK |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------------------|
| 59 | P | CAN-L |
| 60 | L | CAN-H |
| 61 | BG | REAR DEFOGGER RELAY OUT |
| 66 | W | BLOWER FAN RELAY OUT |
| 67 | G | IGN ELEC RELAY OUT 2 |

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POWER SUPPLY ROUTING CIRCUIT

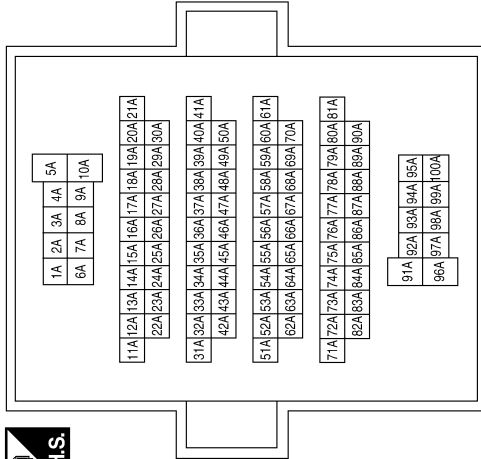
< WIRING DIAGRAM >

| | |
|-----------------|---------------------|
| Connector No. | M41 |
| Connector Name | JOINT CONNECTOR-M18 |
| Connector Color | WHITE |



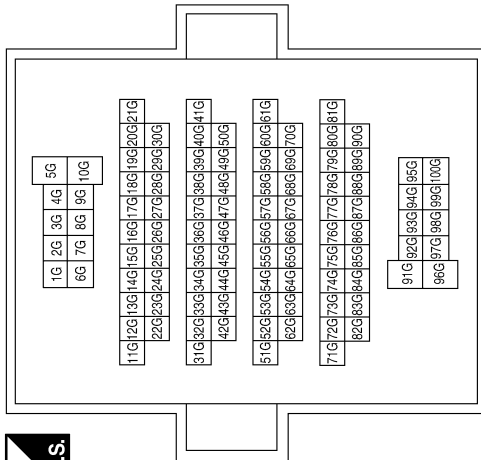
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | P | - |
| 2 | P | - |

| | |
|-----------------|--------------|
| Connector No. | M40 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 89A | L | - |
| 90A | P | - |

| | |
|-----------------|--------------|
| Connector No. | M31 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 10G | W | - |
| 35G | P | - |
| 36G | L | - |

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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

| | |
|-----------------|---------------------------|
| Connector No. | M81 |
| Connector Name | BCM (BODY CONTROL MODULE) |
| Connector Color | WHITE |



| | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 137 | 138 | 139 | 140 | 141 | 142 | 143 | 134 | 135 | 136 | 131 | 132 | 133 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|---------------|
| 134 | B | GND 2 |
| 139 | W | BAT POWER F/L |
| 143 | B | GND 1 |

| | |
|-----------------|------------------|
| Connector No. | M68 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Color | BROWN |



| | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|----|----|
| 7R | 6R | 5R | 4R | 3R | 2R | 1R | 16F | 15F | 14F | 13F | 12F | 11F | 10F | 9F | 8F |
|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|----|----|

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 2R | LG | - |
| 13R | GR | - |

| | |
|-----------------|---------------------|
| Connector No. | M43 |
| Connector Name | JOINT CONNECTOR-M17 |
| Connector Color | WHITE |



| | | | |
|---|---|---|---|
| 4 | 3 | 2 | 1 |
|---|---|---|---|

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | L | - |
| 2 | L | - |

| | |
|-----------------|------------------|
| Connector No. | E13 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Color | WHITE |



| |
|----|
| 1S |
|----|

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1S | W | - |

| | |
|-----------------|----------------------------|
| Connector No. | E7 |
| Connector Name | FUSIBLE LINK BOX (BATTERY) |
| Connector Color | GRAY |



| | |
|---|---|
| 4 | 3 |
|---|---|

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 4 | R | - |

| | |
|-----------------|--------------|
| Connector No. | M84 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 32 | 31 | 30 | 29 | 28 | 27 | 26 | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 |
|----|----|----|----|----|----|----|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 17 | L | - |
| 18 | P | - |

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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

| | |
|-----------------|------------------|
| Connector No. | E17 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1L | G | - |

| | |
|-----------------|----------------------------|
| Connector No. | E27 |
| Connector Name | FUSIBLE LINK BOX (BATTERY) |
| Connector Color | BROWN |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | W | - |
| 2 | L | - |

| | |
|-----------------|------------------|
| Connector No. | E28 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Color | WHITE |



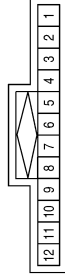
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1M | R | - |

| | |
|-----------------|----------------------------|
| Connector No. | E30 |
| Connector Name | FUSIBLE LINK BOX (BATTERY) |
| Connector Color | BLACK |



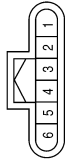
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 5 | W | - |

| | |
|-----------------|---------------------|
| Connector No. | E45 |
| Connector Name | JOINT CONNECTOR-E12 |
| Connector Color | BLUE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | L | - |
| 4 | L | - |
| 7 | P | - |
| 10 | P | - |

| | |
|-----------------|---------------------|
| Connector No. | E70 |
| Connector Name | JOINT CONNECTOR-E14 |
| Connector Color | BLACK |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | P | - |
| 2 | P | - |

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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

| | |
|-----------------|---------------------|
| Connector No. | E71 |
| Connector Name | JOINT CONNECTOR-E15 |
| Connector Color | BLACK |



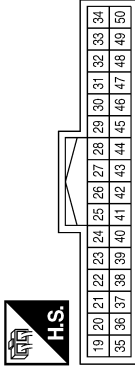
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | L | - |
| 2 | L | - |

| | |
|-----------------|--|
| Connector No. | E118 |
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Color | BLACK |



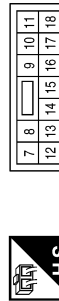
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | R | F/L MAIN |
| 2 | L | F/L USM |

| | |
|-----------------|--|
| Connector No. | E119 |
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|--------------|
| 19 | SB | SUB ECU |
| 28 | P | CAN-L |
| 29 | L | CAN-H |
| 35 | BR | ABS ECU |
| 36 | W | START IG-E/R |
| 41 | B | GND (SIGNAL) |
| 43 | L | IGN SIGNAL |

| | |
|-----------------|--|
| Connector No. | E121 |
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 7 | B | GND(POWER) |
| 11 | Y | FR WIPER LO |
| 15 | R | FUEL PUMP |
| 18 | L | FR WIPER HI |

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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

| | |
|-----------------|--|
| Connector No. | E217 |
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Color | WHITE |

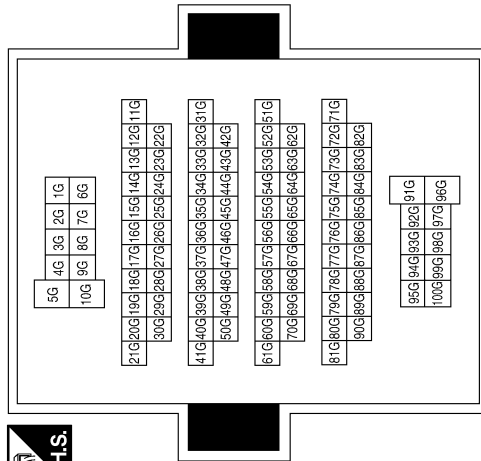


| | | |
|----|----|----|
| 74 | 75 | 76 |
| 77 | 78 | 79 |
| 80 | 81 | |

| | | | | | |
|--------------|----|---------------|---|-------------|----------|
| Terminal No. | 74 | Color of Wire | R | Signal Name | WASH MTR |
|--------------|----|---------------|---|-------------|----------|

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 10G | P | - |
| 35G | P | - |
| 36G | L | - |

| | |
|-----------------|--------------|
| Connector No. | E152 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| | |
|-----------------|--|
| Connector No. | F24 |
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Color | WHITE |



| | | | | | |
|----|----|----|----|----|----|
| 62 | 63 | 64 | 65 | 66 | 67 |
| 68 | 69 | 70 | 71 | 72 | 73 |

| | | | | | |
|--------------|----|---------------|---|-------------|-----|
| Terminal No. | 69 | Color of Wire | W | Signal Name | FPR |
|--------------|----|---------------|---|-------------|-----|

| | |
|-----------------|--|
| Connector No. | F19 |
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Color | WHITE |



| | | | |
|----|----|----|----|
| 52 | 53 | 54 | 55 |
| 56 | 57 | 58 | 59 |
| 60 | 61 | | |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 54 | L | INJECTOR #1 |
| 55 | W | IGN COIL |
| 56 | SB | A/C COMP |
| 60 | LG | INJECTOR #2 |
| 61 | Y | AT ECU |

| | |
|-----------------|--|
| Connector No. | E218 |
| Connector Name | IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) |
| Connector Color | WHITE |



| | | | | | |
|----|----|----|----|----|----|
| 92 | 93 | 94 | 95 | 96 | 97 |
| 98 | 99 | | | | |

| | | | | | |
|--------------|----|---------------|----|-------------|------------------|
| Terminal No. | 84 | Color of Wire | SB | Signal Name | H/L LEVELIZER RH |
| Terminal No. | 92 | Color of Wire | L | Signal Name | H/L LEVELIZER LH |

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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

| | |
|-----------------|---------------------|
| Connector No. | B16 |
| Connector Name | JOINT CONNECTOR-B11 |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | P | - |
| 2 | P | - |

| | |
|-----------------|---------------------|
| Connector No. | B12 |
| Connector Name | JOINT CONNECTOR-B10 |
| Connector Color | WHITE |



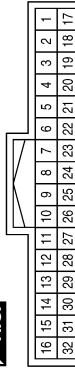
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | L | - |
| 2 | L | - |

| | |
|-----------------|---------------------|
| Connector No. | B11 |
| Connector Name | JOINT CONNECTOR-B09 |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | P | - |
| 2 | P | - |

| | |
|-----------------|--------------|
| Connector No. | B32 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 18 | L | - |
| 19 | P | - |

| | |
|-----------------|------------------|
| Connector No. | B29 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 3T | W | - |
| 5T | G | - |

| | |
|-----------------|---------------------|
| Connector No. | B17 |
| Connector Name | JOINT CONNECTOR-B12 |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | L | - |
| 2 | L | - |

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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

| | |
|-----------------|--------------|
| Connector No. | B101 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |

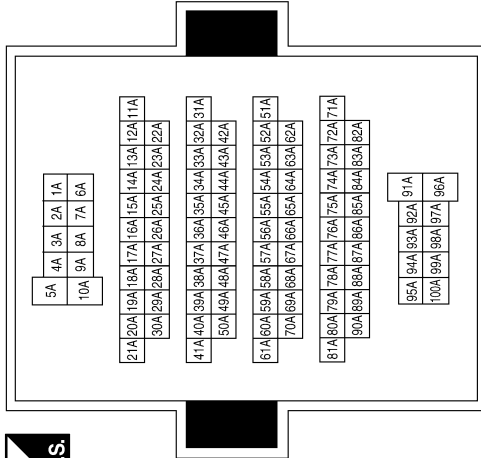


| | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 17 | L | - |
| 18 | P | - |

| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 89A | L | - |
| 90A | P | - |

| | |
|-----------------|--------------|
| Connector No. | B69 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



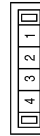
| | |
|-----------------|--------------|
| Connector No. | B124 |
| Connector Name | WIRE TO WIRE |
| Connector Color | WHITE |



| | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |

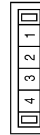
| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 18 | L | - |
| 19 | P | - |

| | |
|-----------------|---------------------|
| Connector No. | B103 |
| Connector Name | JOINT CONNECTOR-B15 |
| Connector Color | WHITE |



| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | P | - |
| 2 | P | - |

| | |
|-----------------|---------------------|
| Connector No. | B102 |
| Connector Name | JOINT CONNECTOR-B14 |
| Connector Color | WHITE |

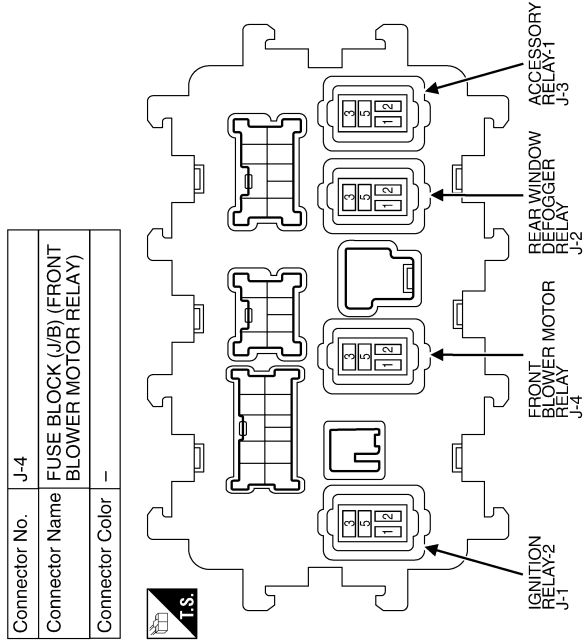
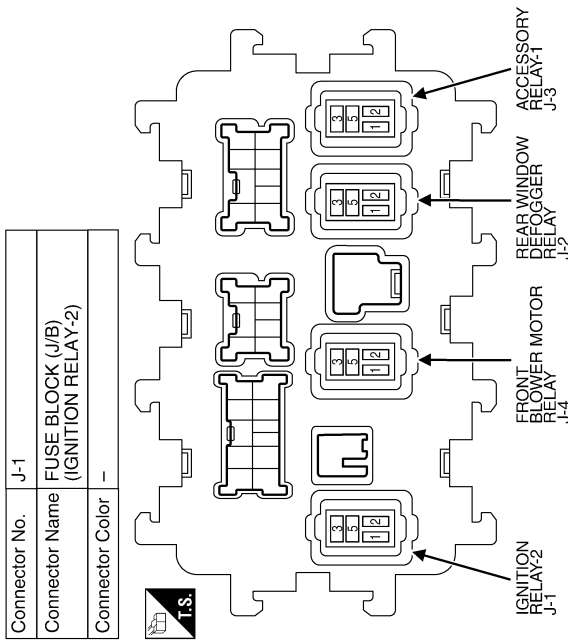
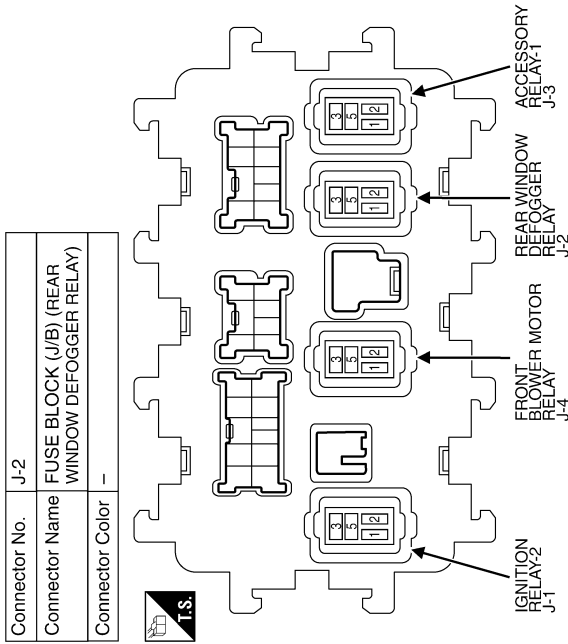


| Terminal No. | Color of Wire | Signal Name |
|--------------|---------------|-------------|
| 1 | L | - |
| 2 | L | - |

ABMIA3733GB

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >



ABMIA3740GB

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GROUND

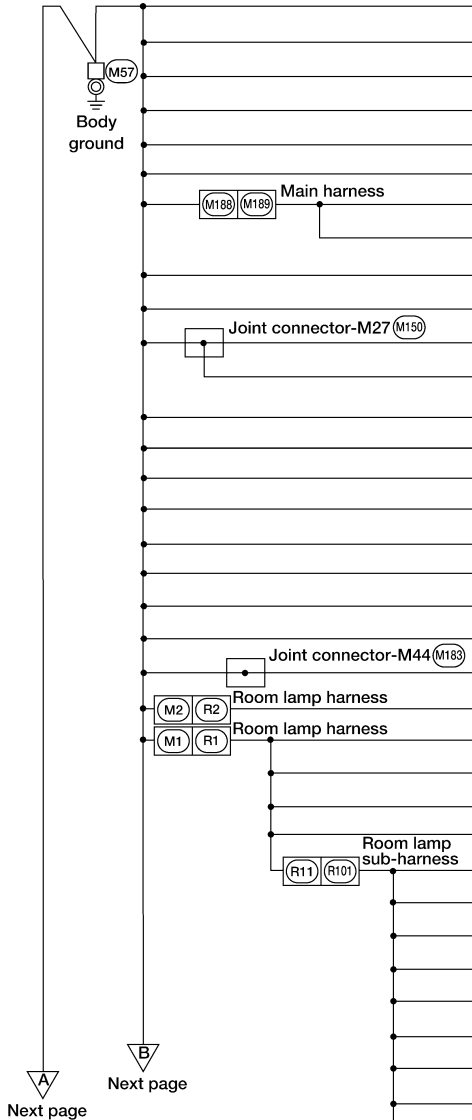
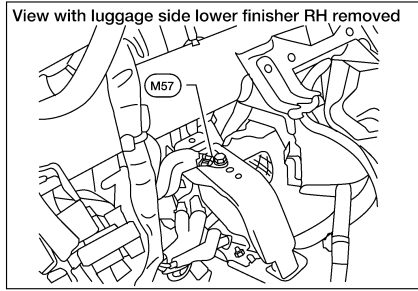
< WIRING DIAGRAM >

GROUND

Ground Distribution

INFOID:000000008487550

MAIN HARNESS

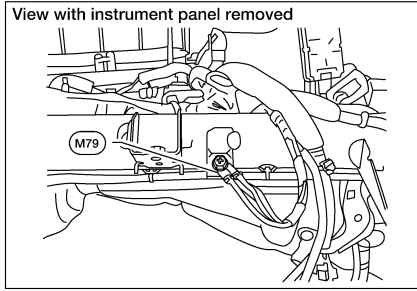


| CONNECTOR NUMBER | CONNECT TO |
|------------------|---|
| (M16) | ADP steering switch |
| (M22) | Data link connector (Terminal No. 4) |
| (M22) | Data link connector (Terminal No. 5) |
| (M24) | Combination meter (Terminal No. 1) |
| (M24) | Combination meter (Terminal No. 2) |
| (M28) | Combination switch |
| (M48) | Heated steering wheel switch (Terminal No. 2) |
| (M48) | Heated steering wheel switch (Terminal No. 6) |
| (M54) | Steering angle sensor |
| (M68) | Fuse block (J/B) |
| (M70) | Sonar control unit (Terminal No. 15) |
| (M70) | Sonar control unit shield |
| (M71) | VDC OFF switch |
| (M81) | BCM (body control module) (Terminal No. 134) |
| (M81) | BCM (body control module) (Terminal No. 143) |
| (M98) | A/C and AV switch assembly |
| (M117) | PTC heater (Terminal No. 2) |
| (M121) | Headlamp aiming switch |
| (M185) | Automatic back door main switch |
| (M186) | Automatic back door switch |
| (M187) | Circuit breaker shield |
| (R4) | Moonroof motor assembly |
| (R5) | Lane camera unit (Terminal No. 1) |
| (R5) | Lane camera unit (Terminal No. 5) |
| (R10) | Auto anti-dazzling inside mirror |
| (R12) | Rain sensor |
| (R105) | Telematics switch |
| (R102) | Vanity lamp LH |
| (R103) | Vanity lamp RH |
| (R104) | Cargo lamp |
| (R105) | Telematics switch |
| (R106) | Personal lamps 2nd row |
| (R107) | Front room/map lamp assembly |
| (R108) | Moonroof switch |
| (R110) | Sunshade switch |

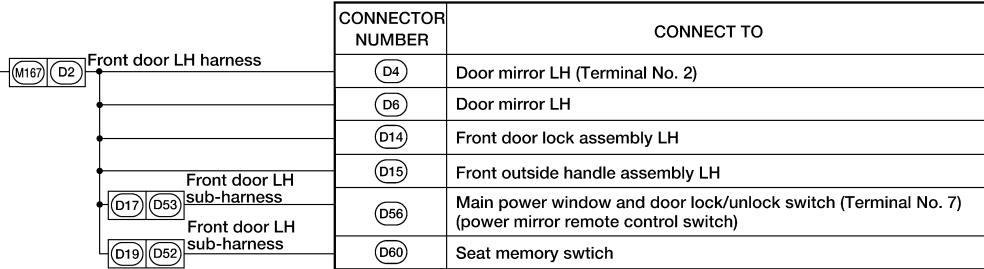
ABMIA3772GB

GROUND

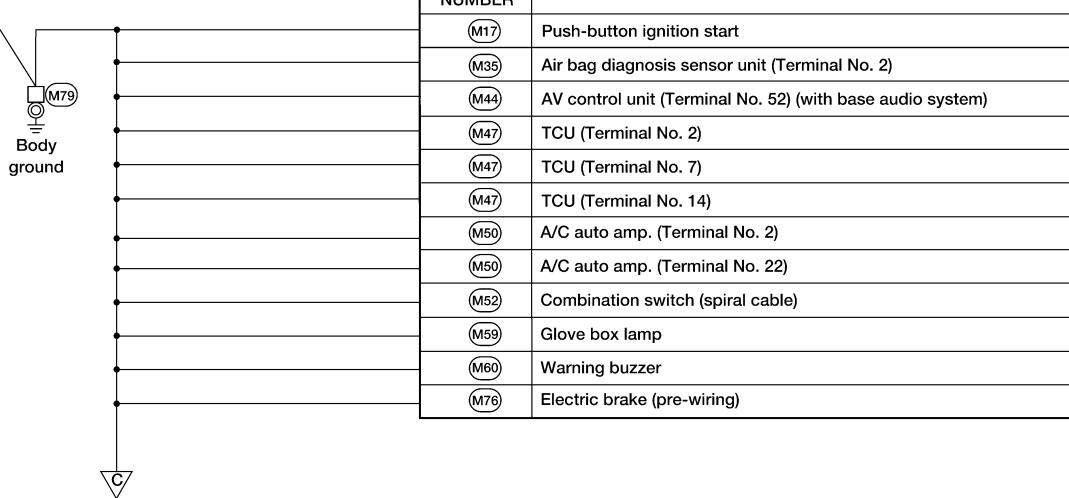
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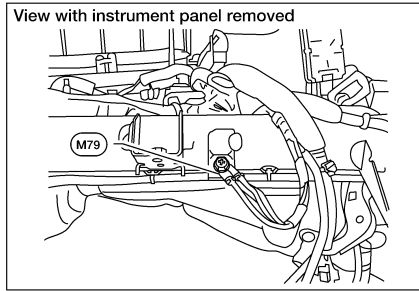


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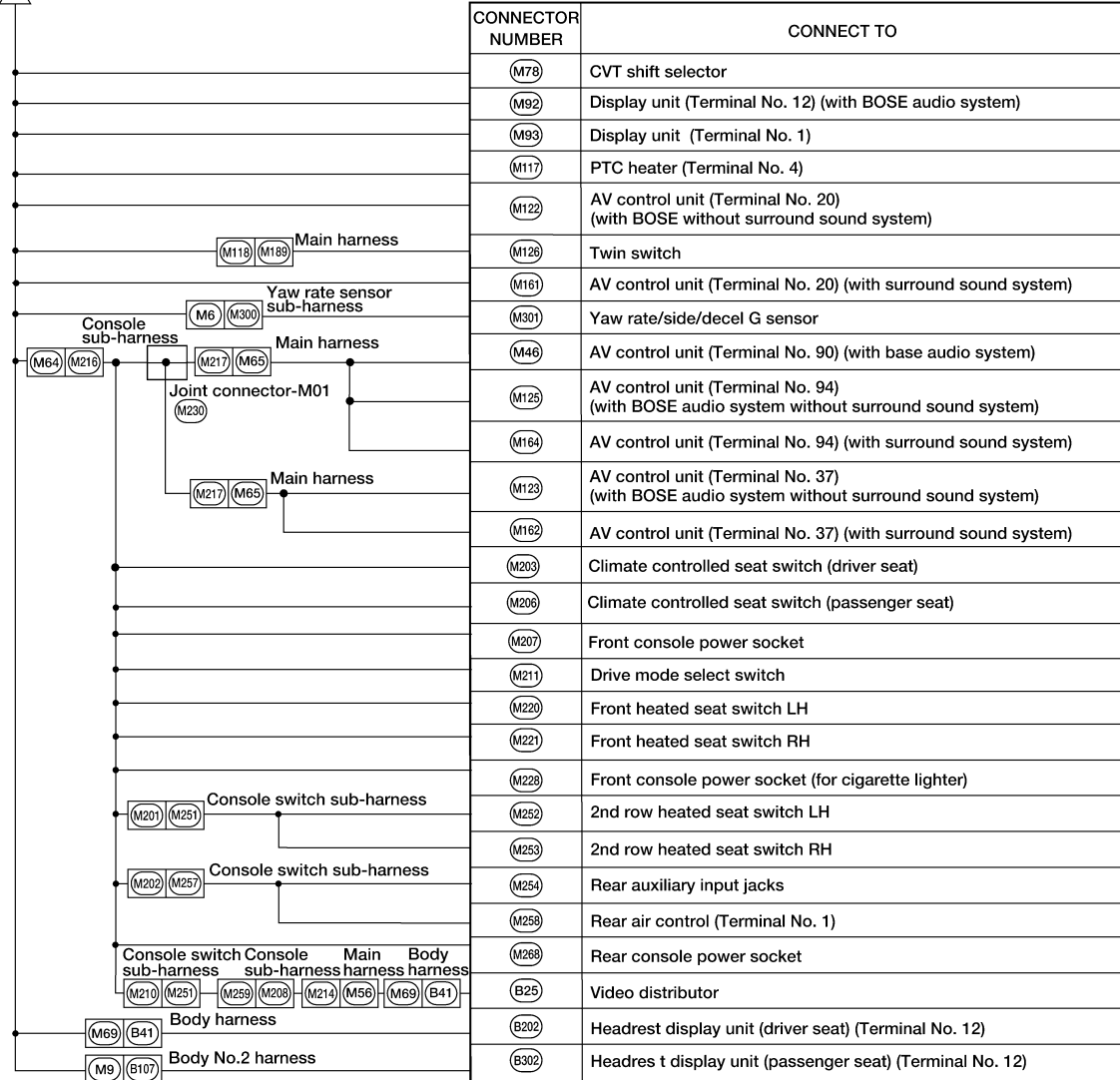
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GROUND

< WIRING DIAGRAM >



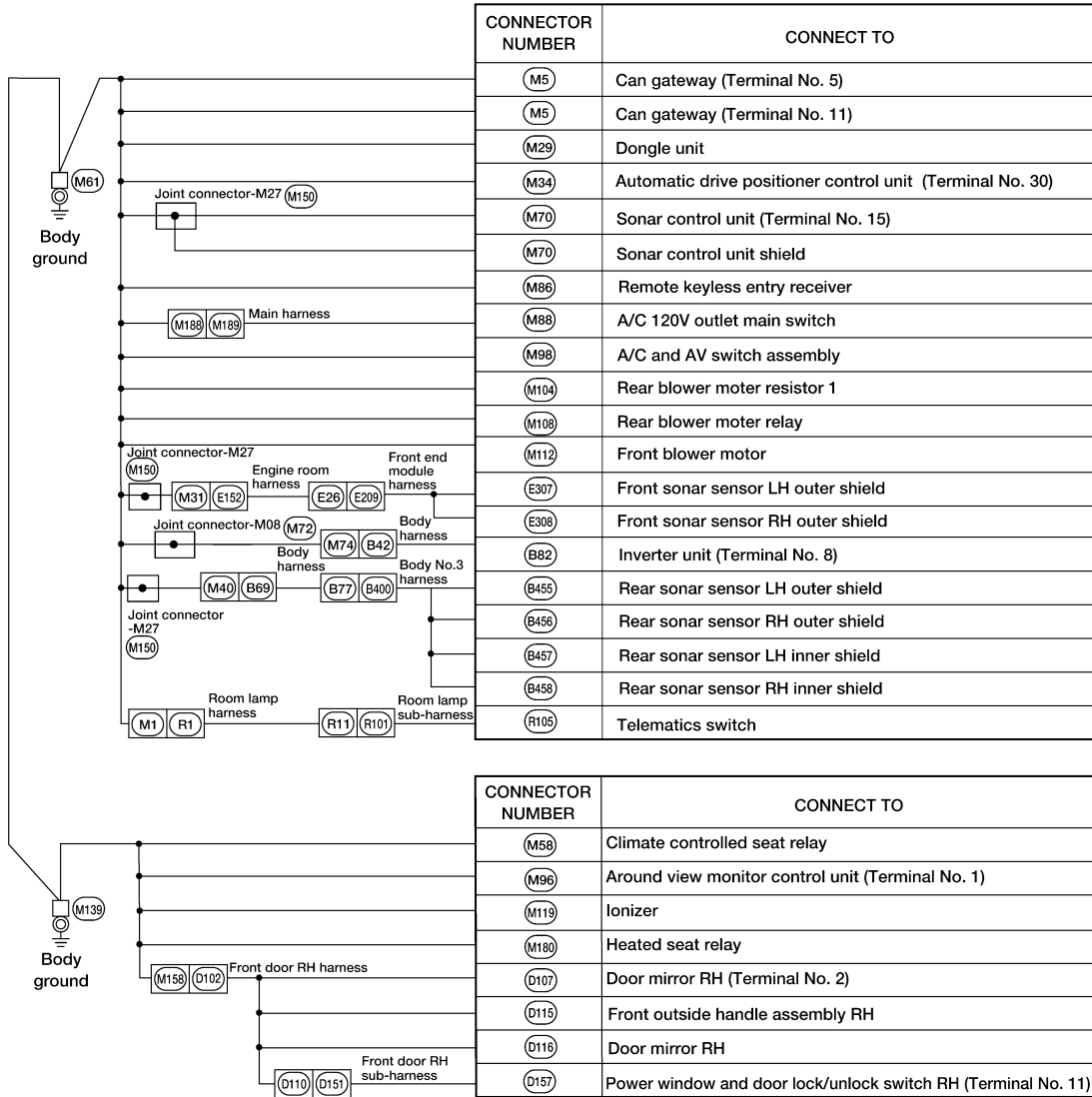
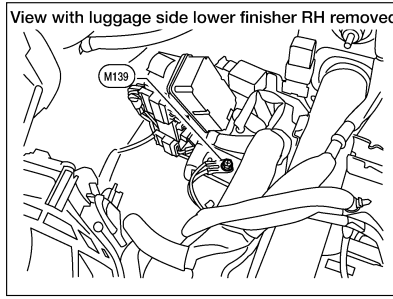
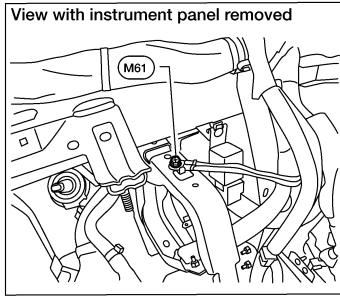
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GROUND

< WIRING DIAGRAM >



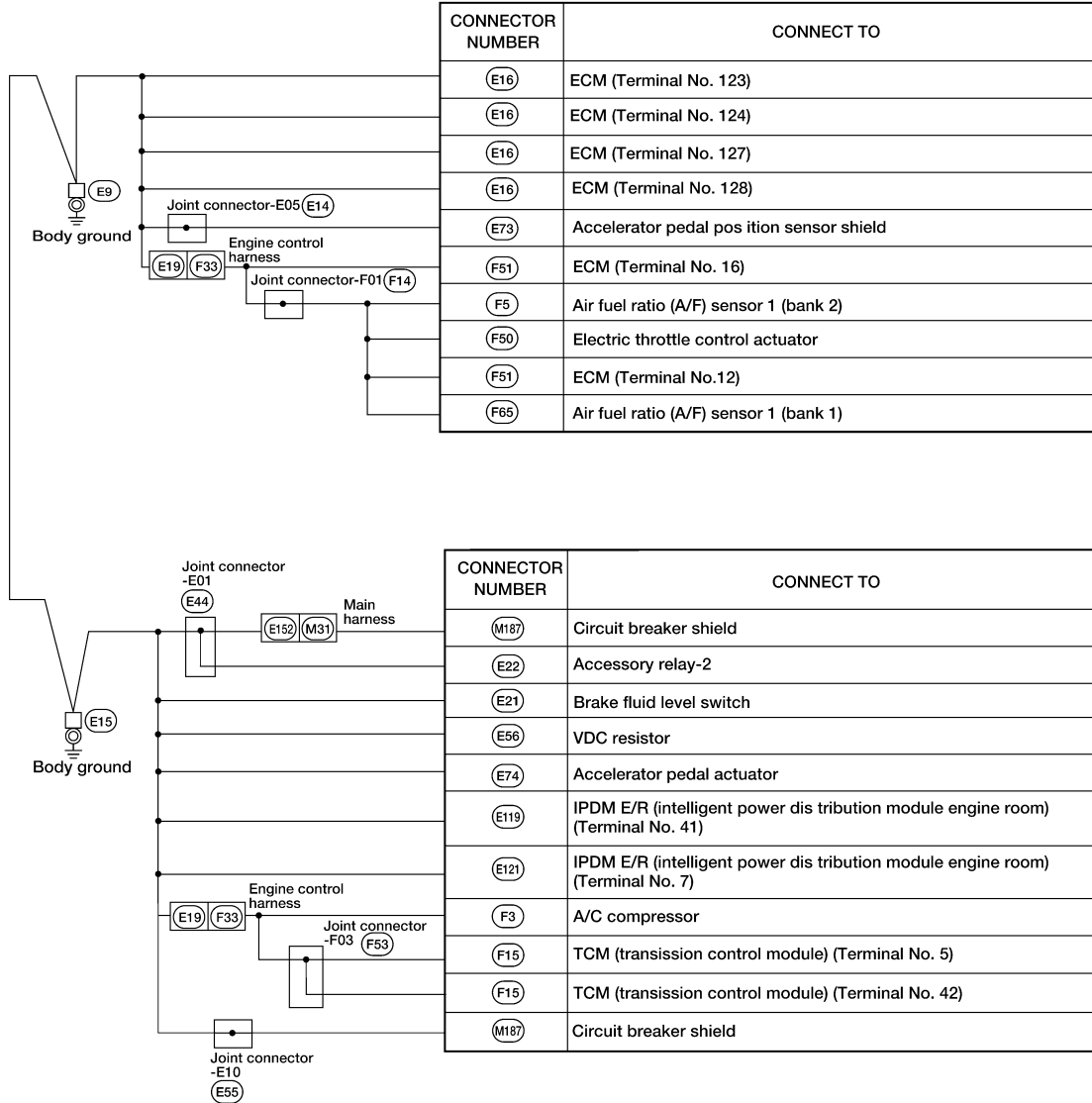
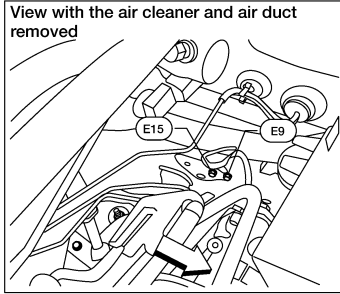
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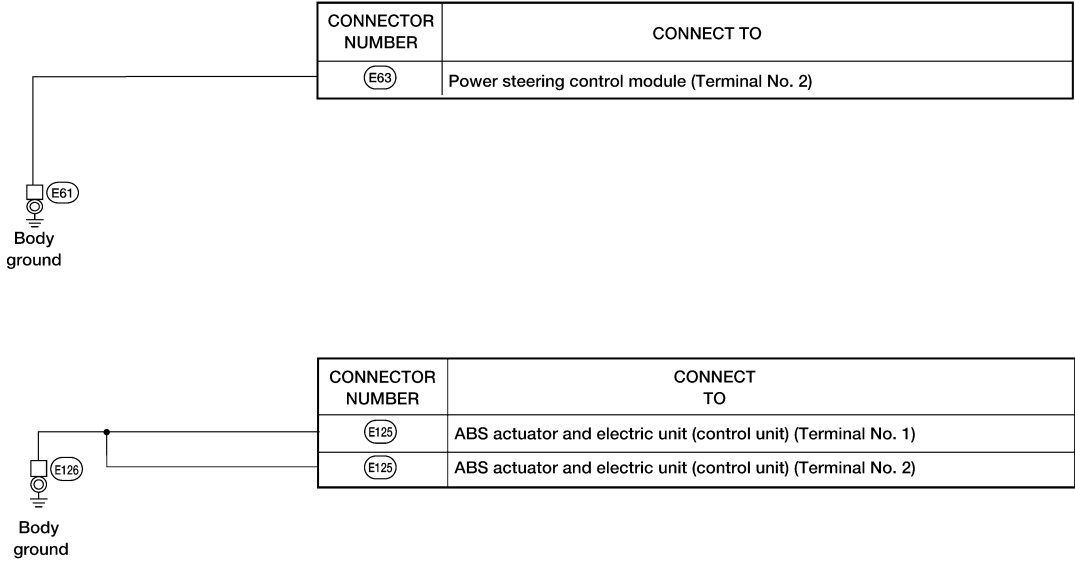
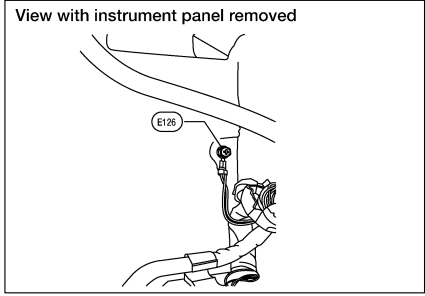
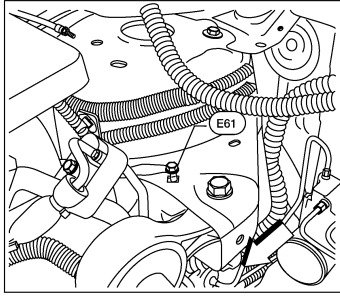
ENGINE ROOM HARNESS



ABMIA3776GB

GROUND

< WIRING DIAGRAM >



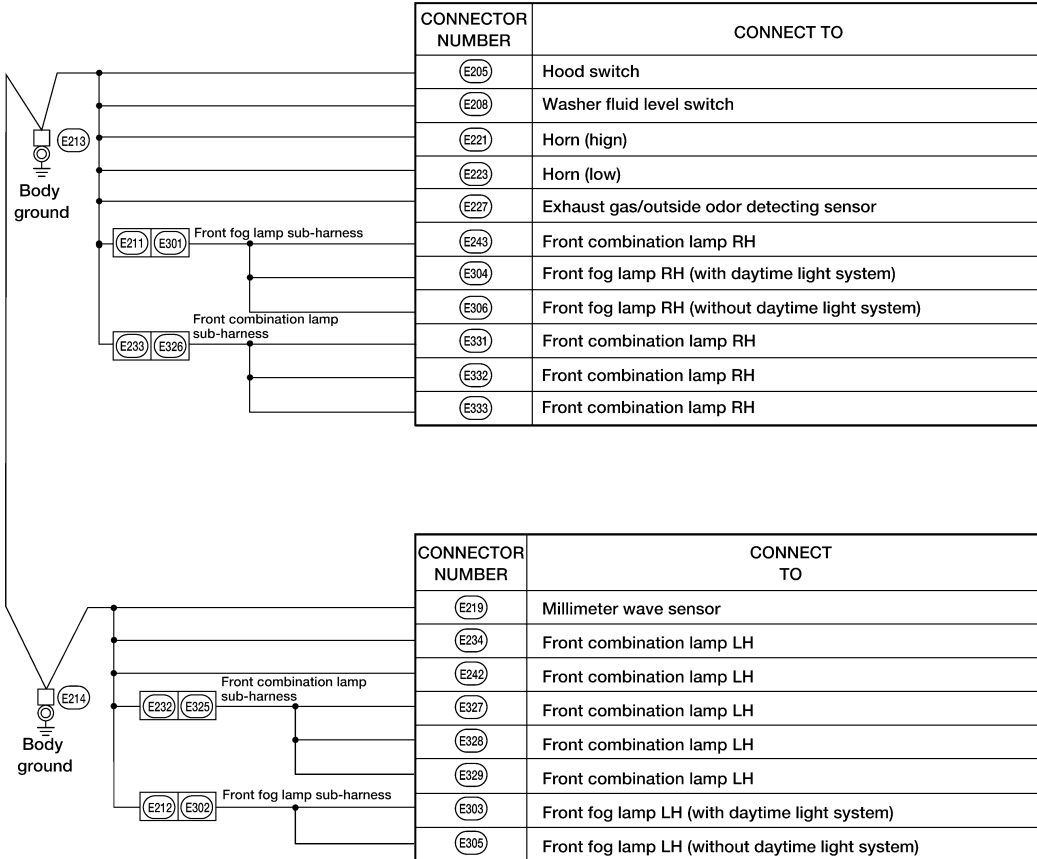
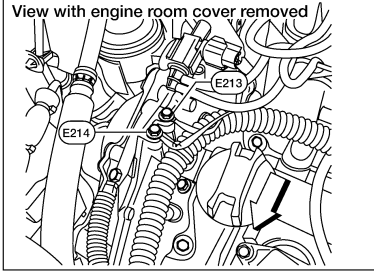
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ABMIA3777GB

GROUND

< WIRING DIAGRAM >

FRONT END MODULE HARNESS



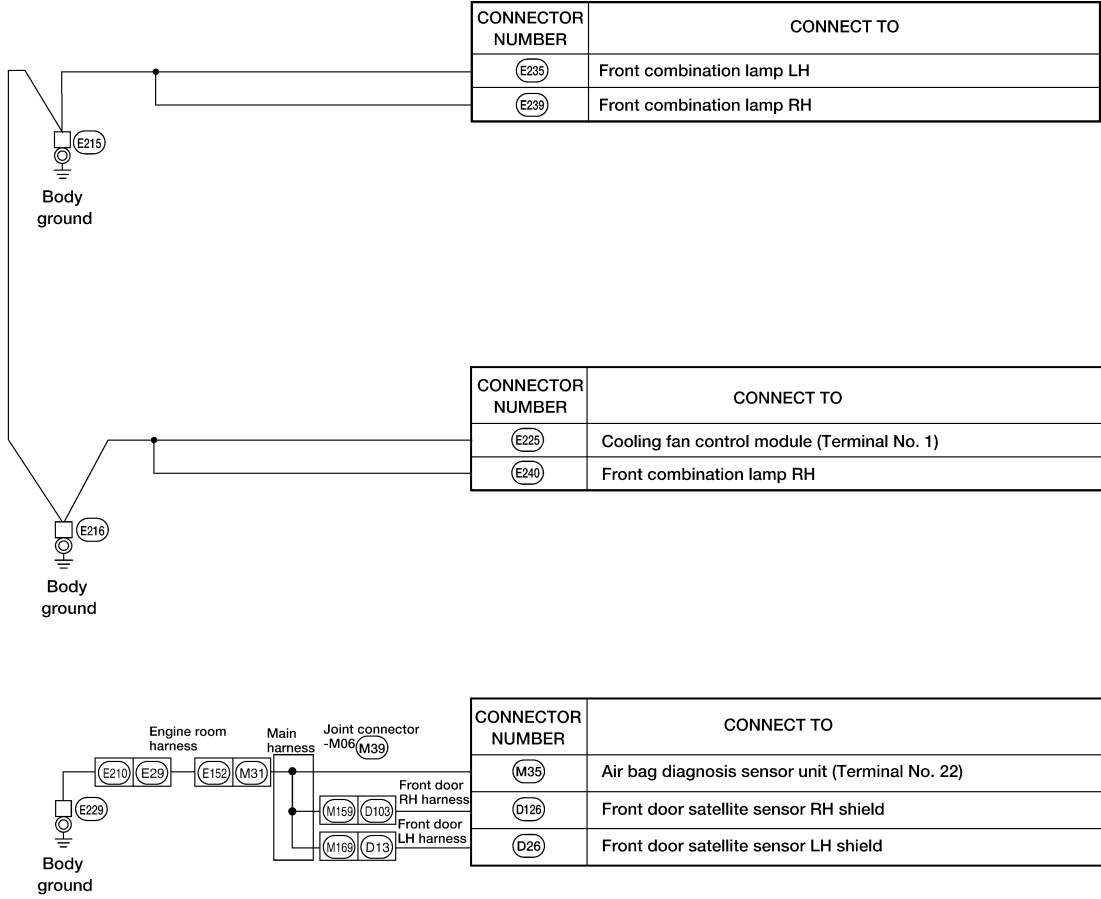
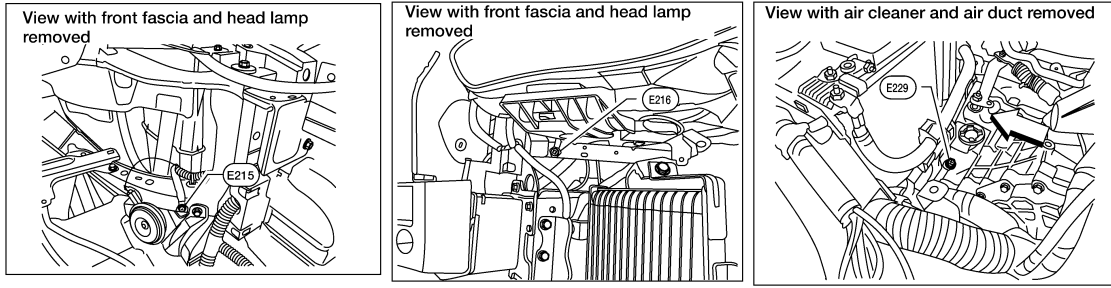
| CONNECTOR NUMBER | CONNECT TO |
|------------------|--|
| (E205) | Hood switch |
| (E208) | Washer fluid level switch |
| (E221) | Horn (high) |
| (E223) | Horn (low) |
| (E227) | Exhaust gas/outside odor detecting sensor |
| (E243) | Front combination lamp RH |
| (E304) | Front fog lamp RH (with daytime light system) |
| (E306) | Front fog lamp RH (without daytime light system) |
| (E331) | Front combination lamp RH |
| (E332) | Front combination lamp RH |
| (E333) | Front combination lamp RH |

| CONNECTOR NUMBER | CONNECT TO |
|------------------|--|
| (E219) | Millimeter wave sensor |
| (E234) | Front combination lamp LH |
| (E242) | Front combination lamp LH |
| (E327) | Front combination lamp LH |
| (E328) | Front combination lamp LH |
| (E329) | Front combination lamp LH |
| (E303) | Front fog lamp LH (with daytime light system) |
| (E305) | Front fog lamp LH (without daytime light system) |

ABMIA3778GB 1

GROUND

< WIRING DIAGRAM >



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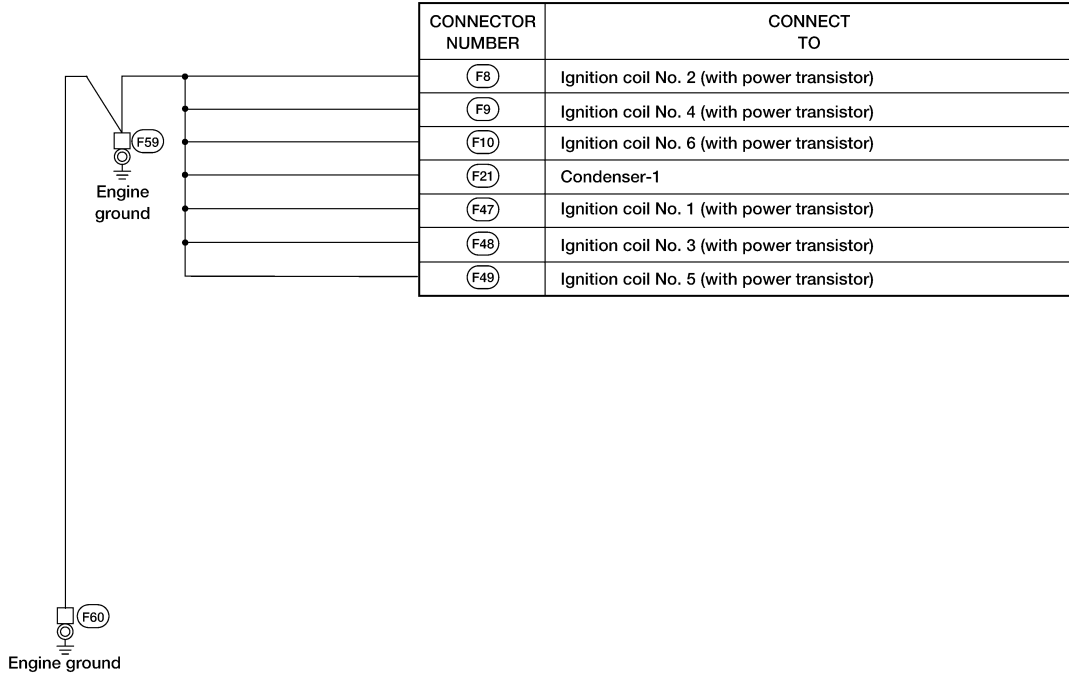
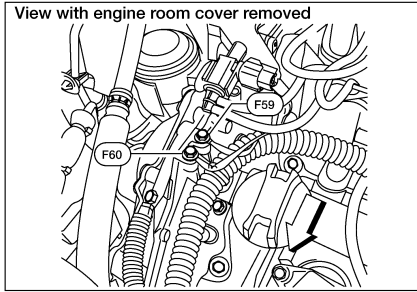
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GROUND

< WIRING DIAGRAM >

ENGINE CONTROL HARNESS

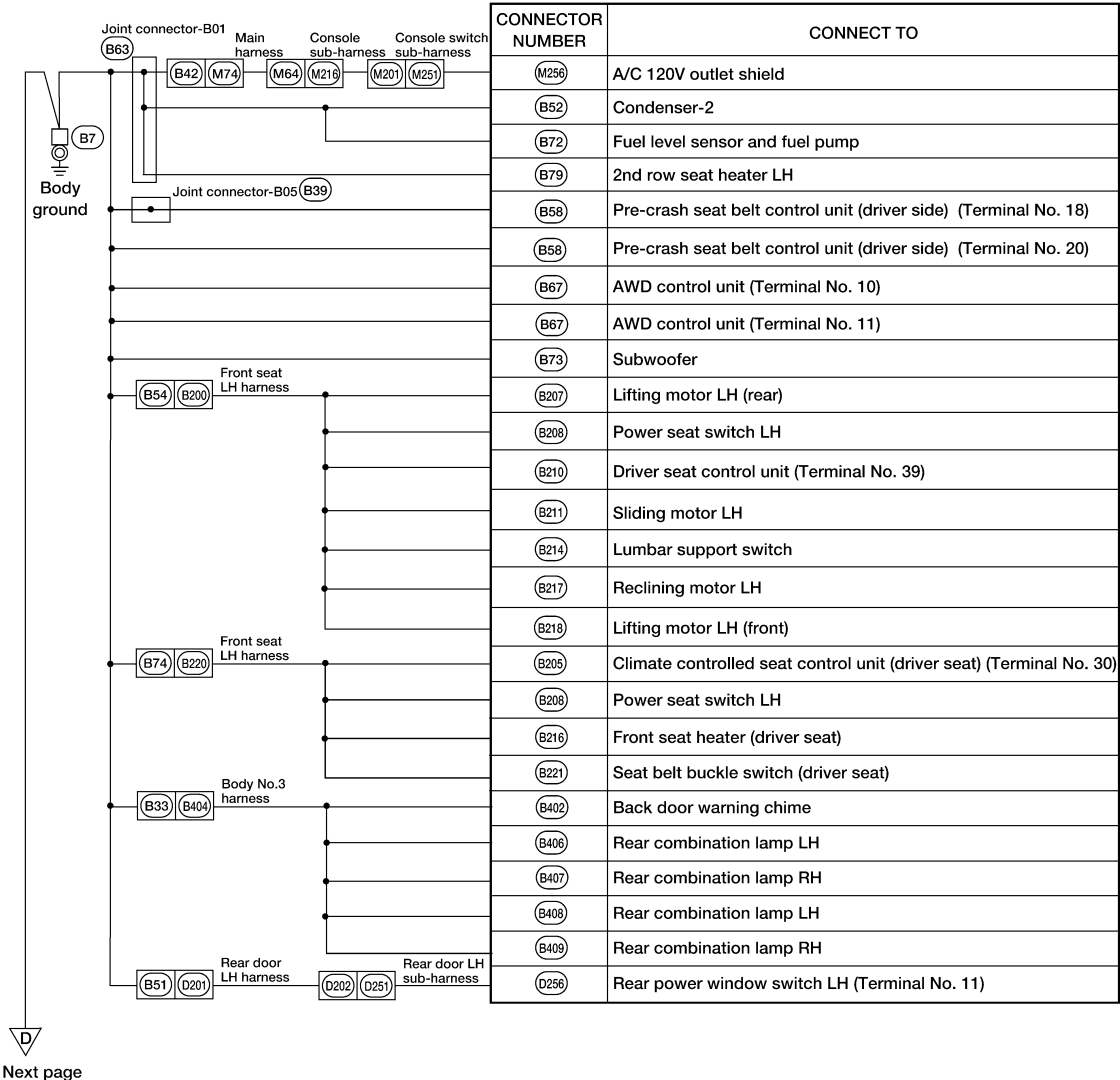
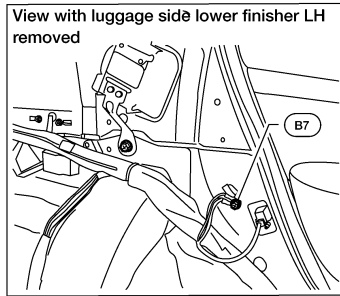


AAMIA1092GB

GROUND

< WIRING DIAGRAM >

BODY HARNESS

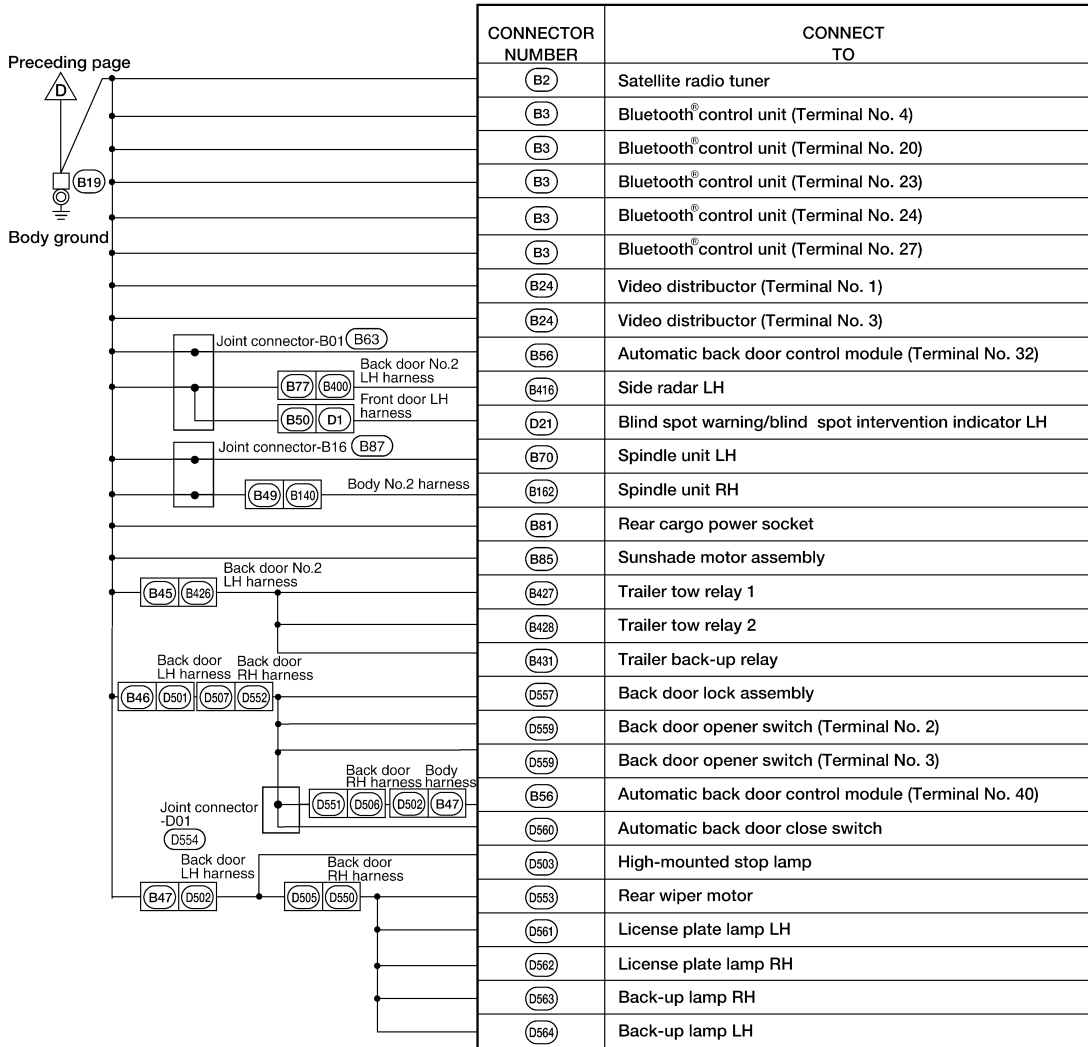
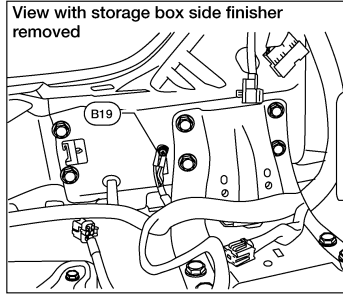


ABMIA3780GB

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GROUND

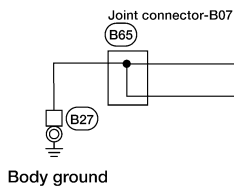
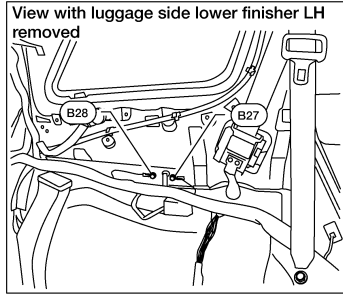
< WIRING DIAGRAM >



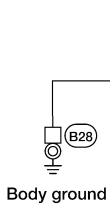
ABMIA3781GB

GROUND

< WIRING DIAGRAM >



| CONNECTOR NUMBER | CONNECT TO |
|------------------|---|
| (B9) | Air bag diagnosis sensor unit (Terminal No. 55) |
| (B71) | Rear side air bag satellite sensor LH shield |



| CONNECTOR NUMBER | CONNECT TO |
|------------------|---------------------------------------|
| (B38) | LH side curtain air bag module shield |

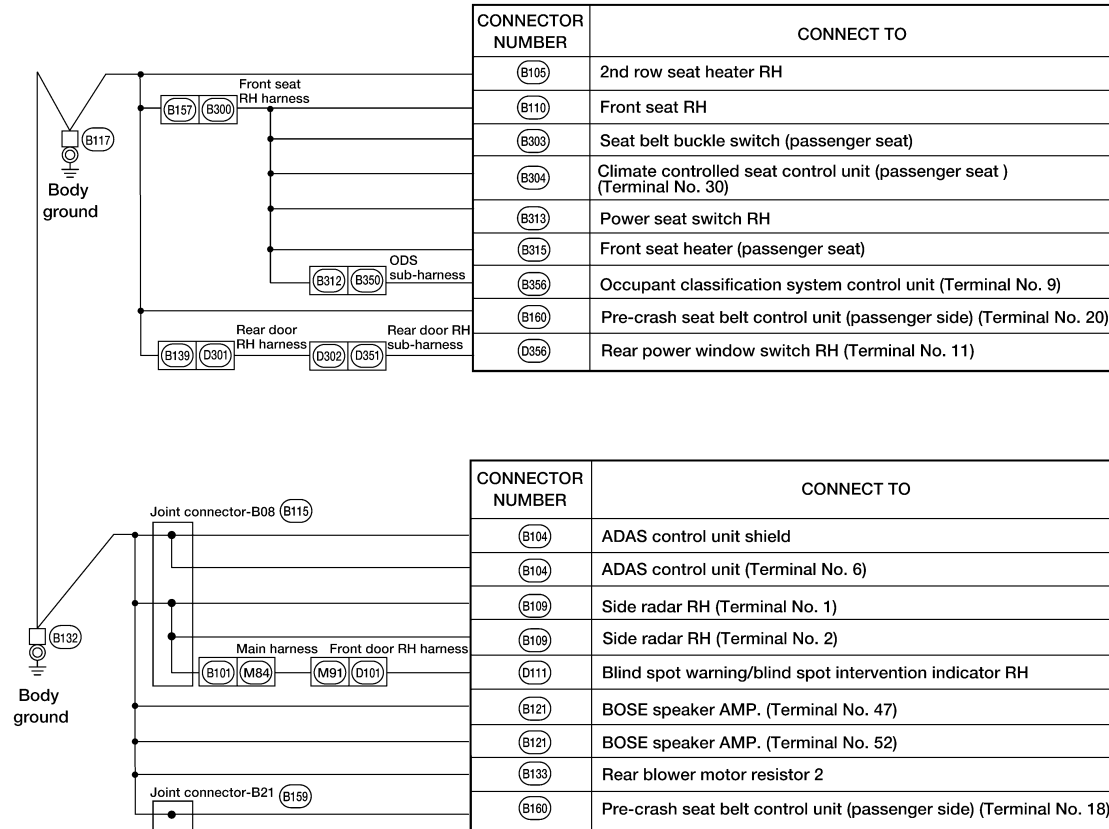
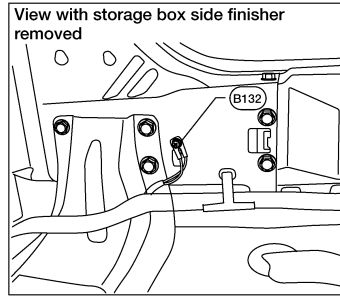
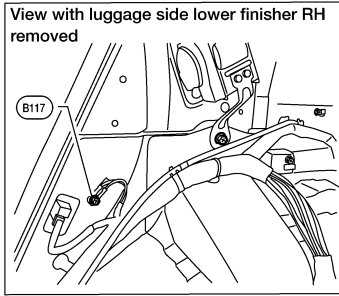
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AAMIA1097GB

GROUND

< WIRING DIAGRAM >

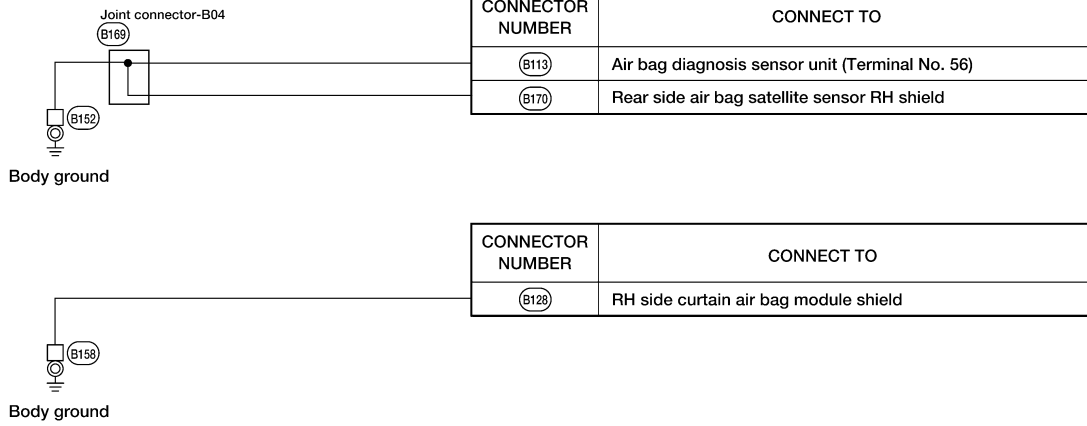
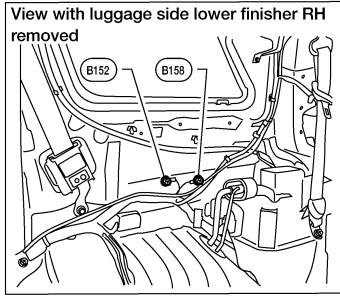
BODY NO. 2 HARNESS



ABMIA3782GB 1

GROUND

< WIRING DIAGRAM >



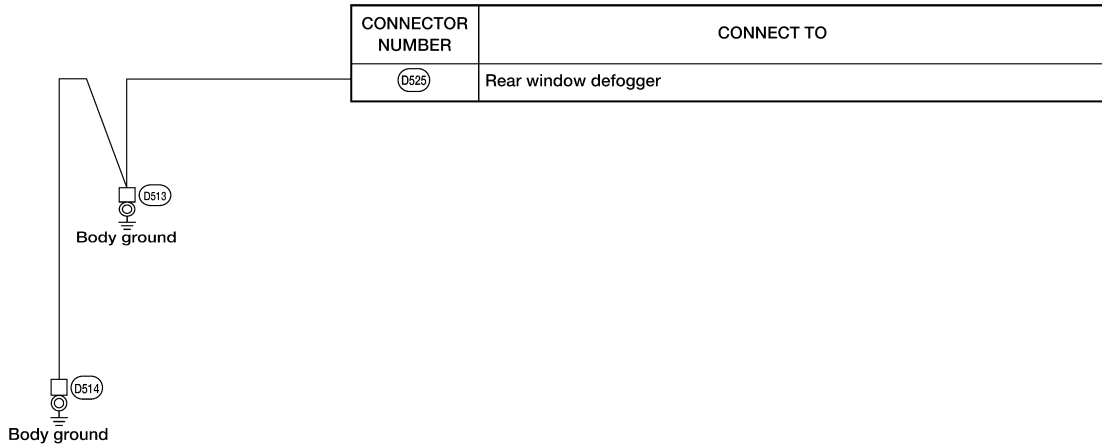
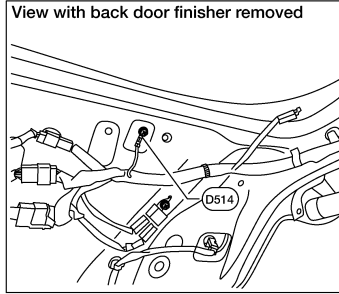
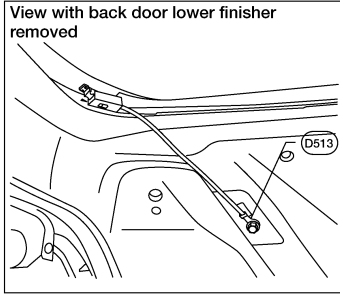
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GROUND

< WIRING DIAGRAM >

BACK DOOR HARNESS



ABMIA3784GB

HARNESS

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HARNESS

Harness Layout

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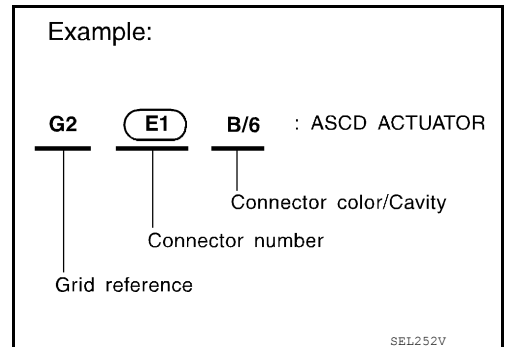
HOW TO READ HARNESS LAYOUT

The following Harness Layouts use a map style grid to help locate connectors on the drawings:

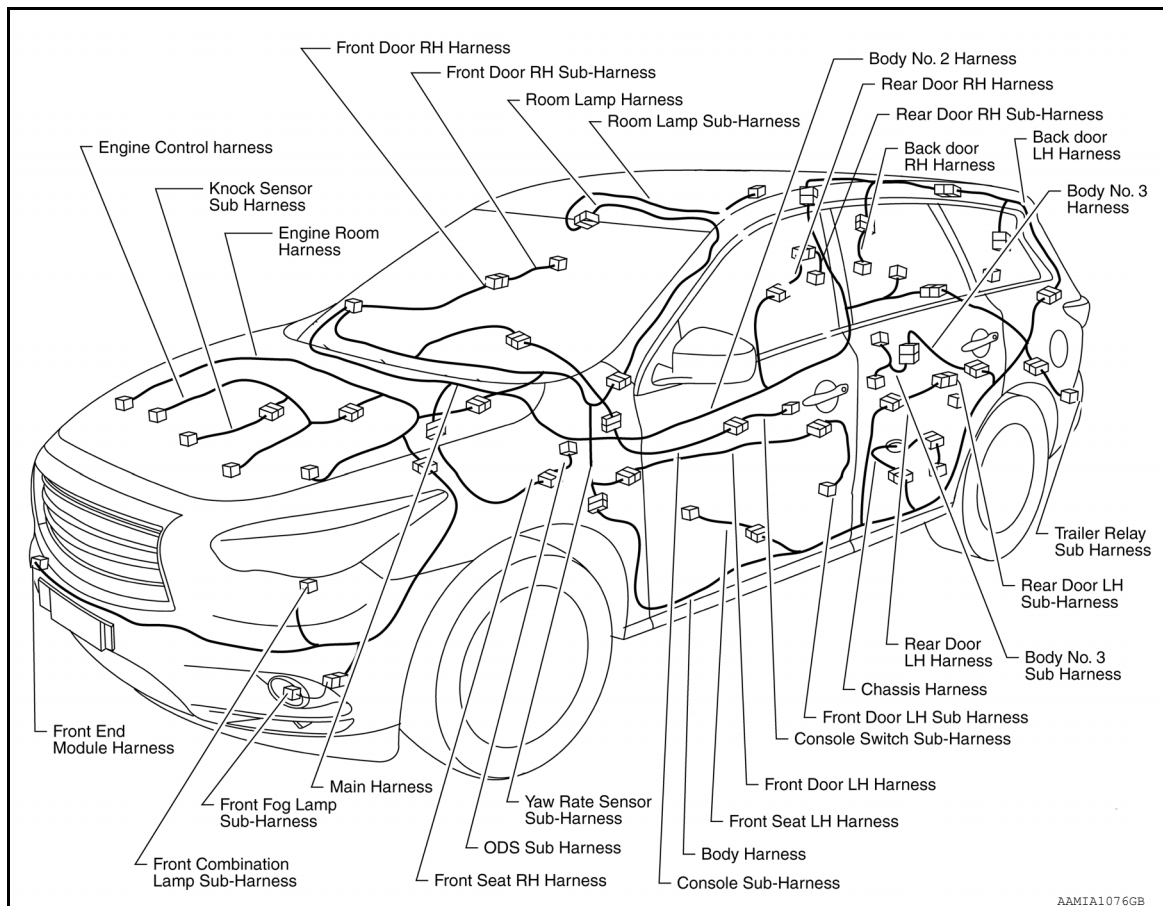
- Main Harness 1, Main Harness 2, Console Sub-harness, Console Switch Sub-harness and Yaw Rate Sensor Sub-harness
- Engine Room Harness
- Engine Room Harness (Passenger Compartment)
- Front End Module Harness, Front Fog Lamp Sub-harness and Front Combination Lamp Sub-harness
- Engine Control Harness and Knock Sensor Sub-harness
- Body Harness, Front Seat LH Harness, Body No.3 Harness, Body No.3 Sub-harness, Trailer Relay Sub Harness and Chassis Harness
- Body No. 2 Harness and Front Seat RH Harness
- Room Lamp Harness and Room Lamp Sub-harness
- Back Door LH Harness and Back Door RH Harness

To use the grid reference

1. Find the desired connector number on the connector list.
2. Find the grid reference.
3. On the drawing, find the crossing of the grid reference letter column and number row.
4. Find the connector number in the crossing zone.
5. Follow the line (if used) to the connector.



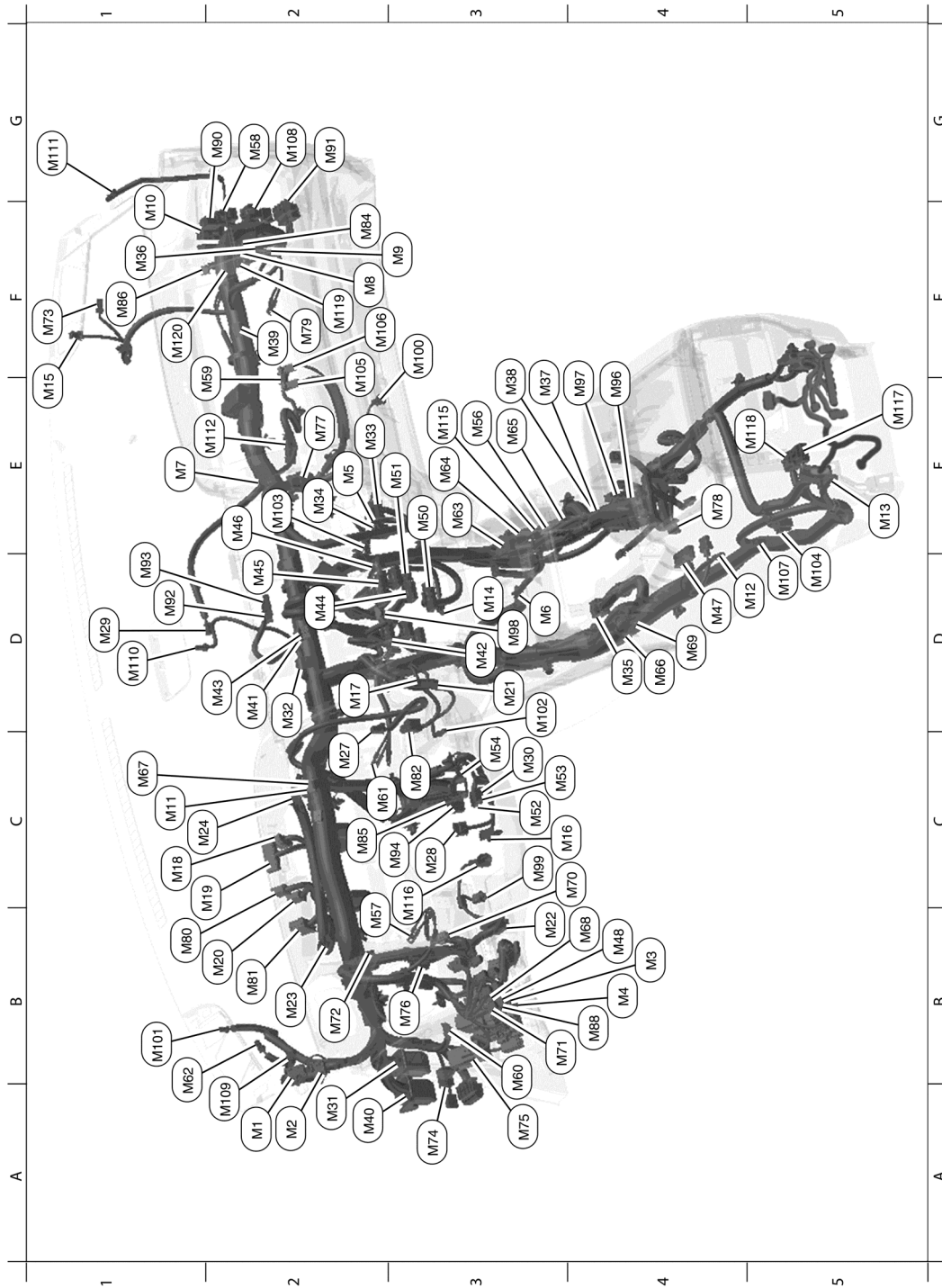
OUTLINE



HARNESS

< WIRING DIAGRAM >

MAIN HARNESS 1



AAMIA1087GB

| | | | | | | | |
|----|----|------|--------------------|----|-----|------|-------------------------------|
| A2 | M1 | W/24 | : To R1 | B3 | M60 | BR/4 | : Warning buzzer |
| A2 | M2 | W/6 | : To R2 | C2 | M61 | _ | : Body ground |
| B4 | M3 | W/8 | : Fuse block (J/B) | B1 | M62 | BR/2 | : Instrument panel tweeter lh |
| B4 | M4 | W/16 | : Fuse block (J/B) | E3 | M63 | W/24 | : To M215 |
| E2 | M5 | W/12 | : Can gateway | E3 | M64 | W/16 | : To M216 |

HARNESS

< WIRING DIAGRAM >

| | | | | | | | | |
|----|-----|-------|--|----|------|-------|--|----|
| D3 | M6 | W/4 | : To M300 | E3 | M65 | W/32 | : To M217 | A |
| E1 | M7 | W/3 | : To M127 | D4 | M66 | W/24 | : To B6 | B |
| F2 | M8 | W/1 | : To B106 | C1 | M67 | W/4 | : Joint connector-M04 | C |
| F3 | M9 | W/16 | : To B107 | B4 | M68 | BR/16 | : Fuse block (J/B) | D |
| F1 | M10 | BR/16 | : To B111 | D4 | M69 | W/32 | : To B41 | E |
| C1 | M11 | W/4 | : Joint connector-M03 | C4 | M70 | W/24 | : Sonar control unit | F |
| D5 | M12 | W/3 | : Rear shut-off door motor | B3 | M71 | G/4 | : VDC off switch | G |
| E5 | M13 | W/3 | : Mode door motor (Rear) | B2 | M72 | W/6 | : Joint connector-M08 | H |
| D3 | M14 | GR/2 | : Inside key antenna (Instrument center) | F1 | M73 | BR/2 | : Instrument panel tweeter rh | I |
| E1 | M15 | W/3 | : Optical sensor | A3 | M74 | BR/12 | : To B42 | J |
| C4 | M16 | GR/6 | : Adp steering switch | A3 | M75 | W/3 | : To E36 | K |
| D2 | M17 | W/8 | : Push-button ignition switch | B3 | M76 | W/6 | : Electric brake (Pre-wiring) | L |
| C1 | M18 | G/40 | : BCM (Body control module) | E2 | M77 | Y/4 | : Front passenger air bag module (Service replacement) | PG |
| C2 | M19 | B/40 | : BCM (Body control module) | E4 | M78 | W/12 | : CVT shift selector | N |
| B2 | M20 | GR/24 | : BCM (Body control module) | F2 | M79 | — | : Body ground | O |
| D3 | M21 | W/3 | : Nats antenna amp. | B1 | M80 | B/24 | : BCM (Body control module) | P |
| B3 | M22 | W/16 | : Data link connector | B2 | M81 | W/15 | : BCM (Body control module) | |
| B2 | M23 | W/12 | : Combination meter | C3 | M82 | W/2 | : Circuit breaker-2 | |
| C1 | M24 | W/40 | : Combination meter | F2 | M84 | W/32 | : To B101 | |
| C2 | M27 | W/12 | : Meter control switch | C2 | M85 | W/6 | : Tilt motor | |
| C3 | M28 | W/14 | : Combination switch | F1 | M86 | B/4 | : Remote keyless entry receiver | |
| D1 | M29 | W/4 | : Dongle unit | B4 | M88 | B/6 | : A/C 120v outlet main switch | |
| C3 | M30 | GR/5 | : Combination switch (Spiral cable) | G2 | M90 | B/4 | : Heated steering relay | |
| A2 | M31 | W/100 | : To E152 | G2 | M91 | W/32 | : To D101 | |
| D2 | M32 | B/2 | : Diode-3 | D1 | M92 | W/24 | : Display unit (With Bose audio system) | |
| E2 | M33 | W/24 | : Automatic drive positioner control unit | D1 | M93 | W/24 | : Display unit (With base audio system) | |
| E2 | M34 | W/6 | : Automatic drive positioner control unit | C3 | M94 | BR/6 | : Telescopic motor | |
| D4 | M35 | Y/21 | : Air bag diagnosis sensor unit | E4 | M96 | W/40 | : Around view monitor control unit | |
| F1 | M36 | W/40 | : To B136 | E4 | M97 | W/32 | : Around view monitor control unit | |
| E3 | M37 | W/4 | : Joint connector-M28 | D3 | M98 | W/16 | : A/C and AV switch assembly | |
| E3 | M38 | W/4 | : Joint connector-M29 | C3 | M99 | — | : Foot lamp lh | |
| F2 | M39 | W/4 | : Joint connector-M06 | F3 | M100 | — | : Foot lamp rh | |
| A2 | M40 | W/57 | : To B69 | B1 | M101 | B/2 | : Sunload sensor | |
| D2 | M41 | W/4 | : Joint connector-M18 | D3 | M102 | W/2 | : In-vehicle sensor | |
| D3 | M42 | W/32 | : AV control unit (With base audio system) | E2 | M103 | W/2 | : Intake sensor | |
| D2 | M43 | W/4 | : Joint connector-M17 | D5 | M104 | W/4 | : Rear blower motor resistor 1 | |
| D2 | M44 | W/20 | : AV control unit (With base audio system) | F2 | M105 | Y/2 | : Front passenger air bag module | |
| D2 | M45 | W/24 | : AV control unit (With base audio system) | F2 | M106 | O/2 | : Front passenger air bag module | |
| E2 | M46 | W/16 | : AV control unit (With base audio system) | D5 | M107 | W/2 | : Rear blower motor 1 | |
| D4 | M47 | W/40 | : TCU | G2 | M108 | BR/6 | : Rear blower motor relay | |
| B4 | M48 | B/8 | : Heated steering wheel switch | A2 | M109 | BR/2 | : Front tweeter lh | |
| E3 | M50 | W/40 | : A/C auto amp. | D1 | M110 | BR/2 | : Center speaker | |
| E3 | M51 | W/12 | : AV control unit (With base audio system) | G1 | M111 | BR/2 | : Front tweeter rh | |

HARNESS

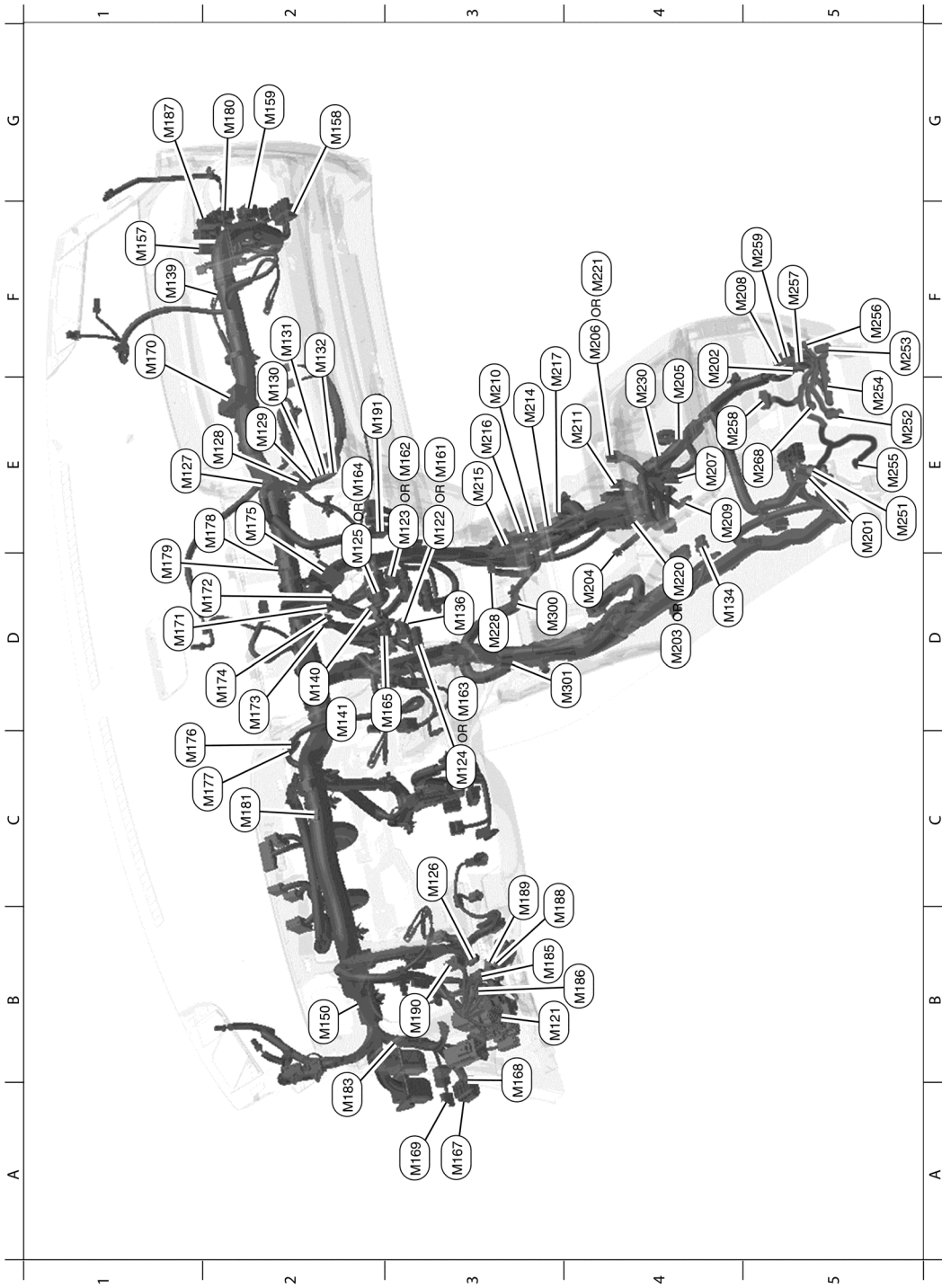
< WIRING DIAGRAM >

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|----|-----|------|-------------------------------------|----|------|------|-----------------------|
| C3 | M52 | W/2 | : Combination switch (Spiral cable) | E2 | M112 | W/6 | : Front blower motor |
| C3 | M53 | Y/6 | : Combination switch (Spiral cable) | E3 | M115 | GR/7 | : To M210 |
| C3 | M54 | W/8 | : Steering angle sensor | C3 | M116 | W/8 | : Calibration control |
| E3 | M56 | W/24 | : To M214 | E5 | M117 | W/2 | : PTC heater |
| B2 | M57 | — | : Body ground | E5 | M118 | W/3 | : PTC heater |
| G2 | M58 | BR/7 | : Climate controlled seat relay | F2 | M119 | W/4 | : Ionizer |
| E1 | M59 | — | : Glove box lamp | F1 | M120 | W/4 | : Joint connector-M21 |

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< WIRING DIAGRAM >

MAIN HARNESS 2



AAMIA1088GB

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|----|------|------|--|----|------|------|-----------------------------------|
| B3 | M121 | W/4 | : Headlamp aiming switch | B3 | M185 | W/10 | : Automatic back door main switch |
| E3 | M122 | W/20 | : AV control unit (With Bose audio system - without surround sound system) | B4 | M186 | B/8 | : Automatic back door switch |
| E3 | M123 | W/28 | : AV control unit (With Bose audio system - without surround sound system) | G1 | M187 | W/2 | : Circuit breaker |

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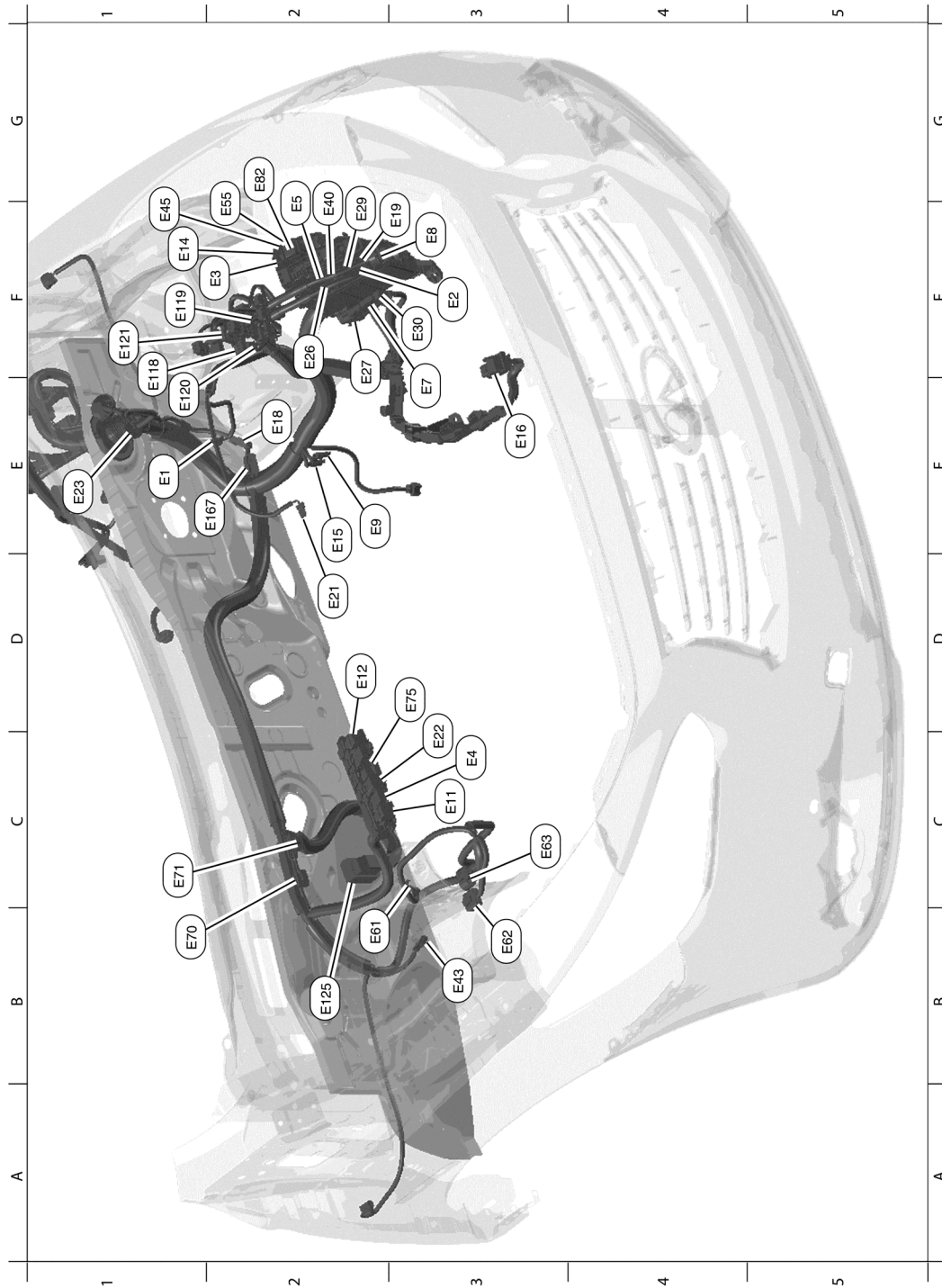
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|----|------|------|--|-----------------------------|------|------|--|
| C3 | M124 | W/32 | : AV control unit (With Bose audio system - without surround sound system) | C3 | M188 | W/24 | : To M189 |
| E2 | M125 | W/40 | : AV control unit (With Bose audio system - without surround sound system) | C3 | M189 | W/24 | : To M188 |
| C3 | M126 | B/8 | : Twin switch (Warning systems switch) | B3 | M190 | W/12 | : Accessory prewire lh |
| E1 | M127 | W/3 | : To M7 | E2 | M191 | W/12 | : Accessory prewire rh |
| E2 | M128 | W/3 | : Intake door motor | Console sub harness | | | |
| E2 | M129 | W/3 | : Mode door motor (Front) | E5 | M201 | W/16 | : To M251 |
| E2 | M130 | W/3 | : Air mix door motor driver side | F4 | M202 | W/24 | : To M257 |
| F2 | M131 | W/3 | : Air mix door motor passenger side | D4 | M203 | W/12 | : Climate controlled seat switch (Driver seat) |
| F2 | M132 | W/3 | : Air mix door motor (Rear) | D4 | M204 | W/4 | : CVT shift selector |
| D4 | M134 | W/17 | : TCU | E4 | M205 | W/8 | : Front auxiliary input jacks |
| D3 | M136 | W/17 | : AV control unit | F4 | M206 | BR/6 | : Climate controlled seat switch (Passenger seat) |
| F1 | M139 | — | : Body ground | E4 | M207 | GR/3 | : Front console power socket |
| D2 | M140 | B/4 | : AV control unit | F4 | M208 | W/32 | : To M259 |
| D2 | M141 | BR/4 | : Display unit | E4 | M209 | G/5 | : Usb interface |
| B2 | M150 | W/33 | : Joint connector-M27 | E3 | M210 | GR/7 | : To M115 |
| F1 | M157 | W/16 | : To B161 | E4 | M211 | B/10 | : Drive mode select switch |
| G2 | M158 | W/10 | : To D102 | E3 | M214 | W/24 | : To M56 |
| G2 | M159 | Y/4 | : To D103 | E3 | M215 | W/24 | : To M63 |
| E3 | M161 | W/20 | : AV control unit (With Bose audio system - with surround sound system) | E3 | M216 | W/16 | : To M64 |
| E3 | M162 | W/28 | : AV control unit (With Bose audio system - with surround sound system) | F3 | M217 | W/32 | : To M65 |
| D3 | M163 | W/32 | : AV control unit (With Bose audio system - with surround sound system) | D4 | M220 | W/10 | : Front heated seat switch lh |
| E2 | M164 | W/40 | : AV control unit (With Bose audio system - with surround sound system) | F4 | M221 | BR/6 | : Front heated seat switch rh |
| D3 | M165 | W/16 | : AV control unit (With Bose audio system - with surround sound system) | D3 | M228 | GR/3 | : Front console power socket (For cigarette lighter) |
| A3 | M167 | W/10 | : To D2 | E4 | M230 | GR/6 | : Joint connector-M01 |
| B3 | M168 | W/40 | : To D3 | Console switch sub harness | | | |
| A3 | M169 | Y/4 | : To D13 | E5 | M251 | W/16 | : To M201 |
| F1 | M170 | W/33 | : Joint connector-M09 | E5 | M252 | W/6 | : 2nd row heated seat switch lh |
| D1 | M171 | W/4 | : Joint connector-M10 | F5 | M253 | BR/6 | : 2nd row heated seat switch rh |
| D2 | M172 | W/4 | : Joint connector-M11 | E5 | M254 | W/40 | : Rear auxiliary input jacks |
| D2 | M173 | W/4 | : Joint connector-M12 | E5 | M255 | GR/2 | : Inside key antenna (Console) |
| D2 | M174 | W/4 | : Joint connector-M13 | F5 | M256 | W/4 | : A/C 120v outlet |
| E2 | M175 | W/33 | : Joint connector-M22 | F5 | M257 | W/24 | : To M202 |
| C1 | M176 | W/4 | : Joint connector-M56 | E4 | M258 | W/12 | : Rear air control |
| C2 | M177 | W/4 | : Joint connector-M57 | F5 | M259 | W/32 | : To M208 |
| E2 | M178 | W/4 | : Joint connector-M58 | E5 | M268 | GR/3 | : Rear console power socket |
| D1 | M179 | W/4 | : Joint connector-M59 | Yaw rate sensor sub harness | | | |
| G2 | M180 | BR/7 | : Heated seat relay | D3 | M300 | W/4 | : To M6 |
| C2 | M181 | W/4 | : Joint connector-M36 | D4 | M301 | B/4 | : Yaw rate/side/decel g sensor |
| A2 | M183 | W/4 | : Joint connector-M44 | | | | |

HARNESS

< WIRING DIAGRAM >

ENGINE ROOM HARNESS



AAMIA1083GB

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|----|----|------|----------------------------------|----|-----|------|------------------------------|
| E1 | E1 | BR/3 | : Intelligent Key warning buzzer | F2 | E29 | Y/4 | : To E210 |
| F3 | E2 | W/16 | : To F32 | F3 | E30 | B/1 | : Fusible link box (Battery) |
| F2 | E3 | B/2 | : Anti theft diode | G2 | E40 | B/2 | : To E201 |
| C3 | E4 | BR/6 | : Daytime light relay | B3 | E43 | B/2 | : Front wheel sensor rh |
| G2 | E5 | W/24 | : To E207 | F1 | E45 | B/12 | : Joint connector-E12 |

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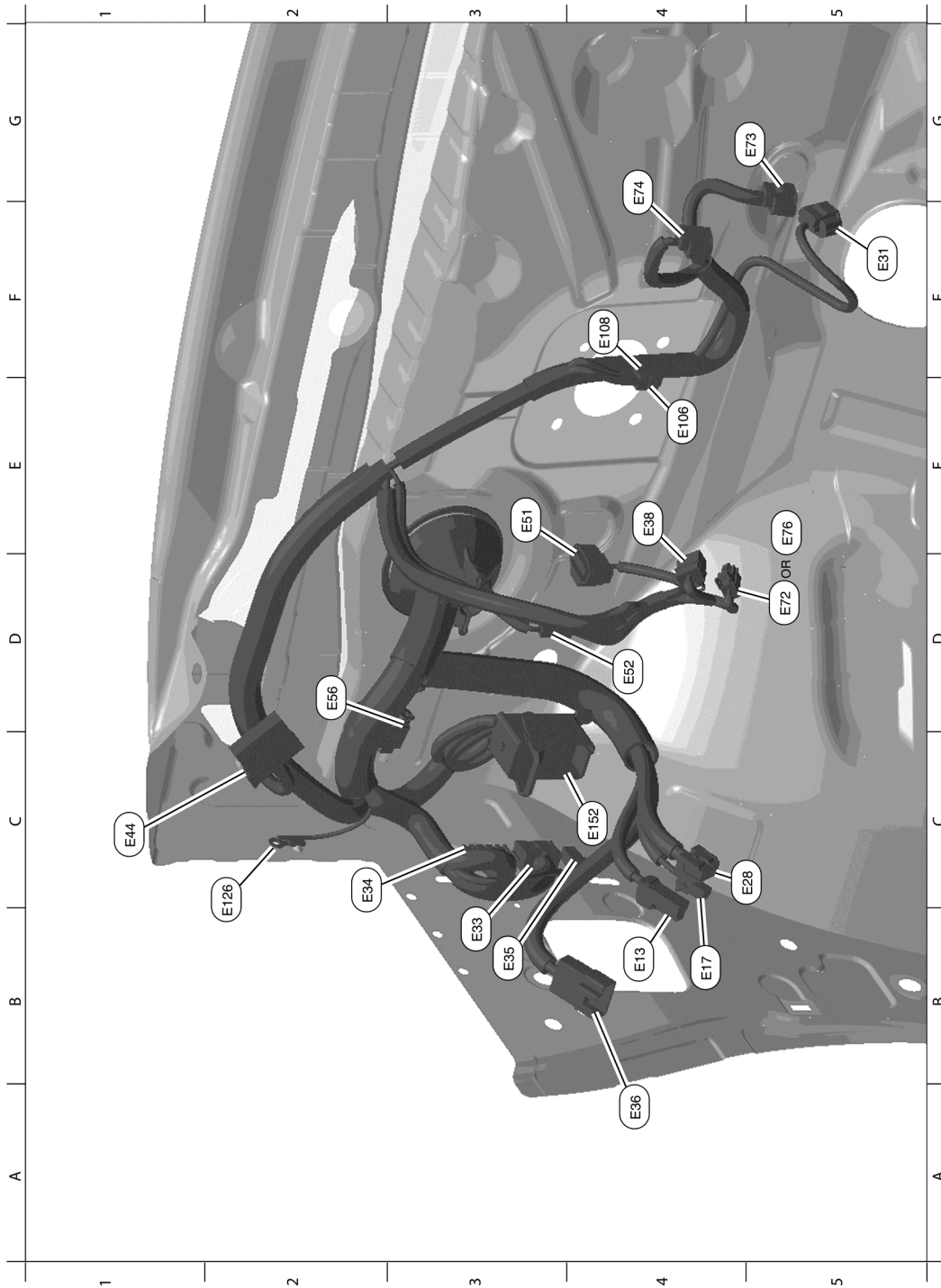
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| E3 | E7 | GR/2 | : Fusible link box (Battery) | G2 | E55 | W/4 | : Joint connector-E10 |
| F3 | E8 | W/3 | : Anti theft horn relay | B2 | E61 | — | : Body ground |
| E2 | E9 | — | : Ground | B3 | E62 | B/6 | : Power steering control module |
| C3 | E11 | B/5 | : PTC relay-1 | C3 | E63 | B/2 | : Power steering control module |
| D2 | E12 | B/5 | : PTC relay-2 | B1 | E70 | B/6 | : Joint connector-E14 |
| F1 | E14 | B/12 | : Joint connector-E05 | C1 | E71 | B/6 | : Joint connector-E15 |
| E2 | E15 | — | : Engine ground | D3 | E75 | B/4 | : ICC brake hold relay |
| E3 | E16 | GR/32 | : ECM | G2 | E82 | BR/4 | : Cooling fan relay |
| E2 | E18 | B/2 | : Front wheel sensor lh | F1 | E118 | B/2 | : IPDM E/R (Intelligent power distribution module engine room) |
| F3 | E19 | W/10 | : To F33 | F1 | E119 | W/32 | : IPDM E/R (Intelligent power distribution module engine room) |
| D2 | E21 | GR/2 | : Brake fluid level switch | E1 | E120 | W/4 | : IPDM E/R (Intelligent power distribution module engine room) |
| C3 | E22 | B/4 | : Accessory relay-2 | F1 | E121 | W/12 | : IPDM E/R (Intelligent power distribution module engine room) |
| E1 | E23 | GR/5 | : Front wiper motor | B2 | E125 | B/34 | : ABS actuator and electric unit (Control unit) |
| F2 | E26 | W/24 | : To E209 | E2 | E167 | GR/3 | : Vacuum sensor |
| F2 | E27 | BR/2 | : Fusible link box (Battery) | | | | |

HARNESS

< WIRING DIAGRAM >

ENGINE ROOM HARNESS (PASSENGER VIEW)



AAMIA1082GB

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|----|------|------|---------------|----|------|------|-----------------------------|
| F3 | E201 | B/2 | : To E40 | E3 | E232 | B/8 | : To E325 |
| C2 | E203 | — | : Body ground | B3 | E233 | GR/8 | : To E326 |
| C2 | E204 | — | : Generator | E3 | E234 | GR/2 | : Front combination lamp lh |
| C2 | E205 | BR/3 | : Hood switch | E4 | E235 | GR/2 | : Front combination lamp lh |

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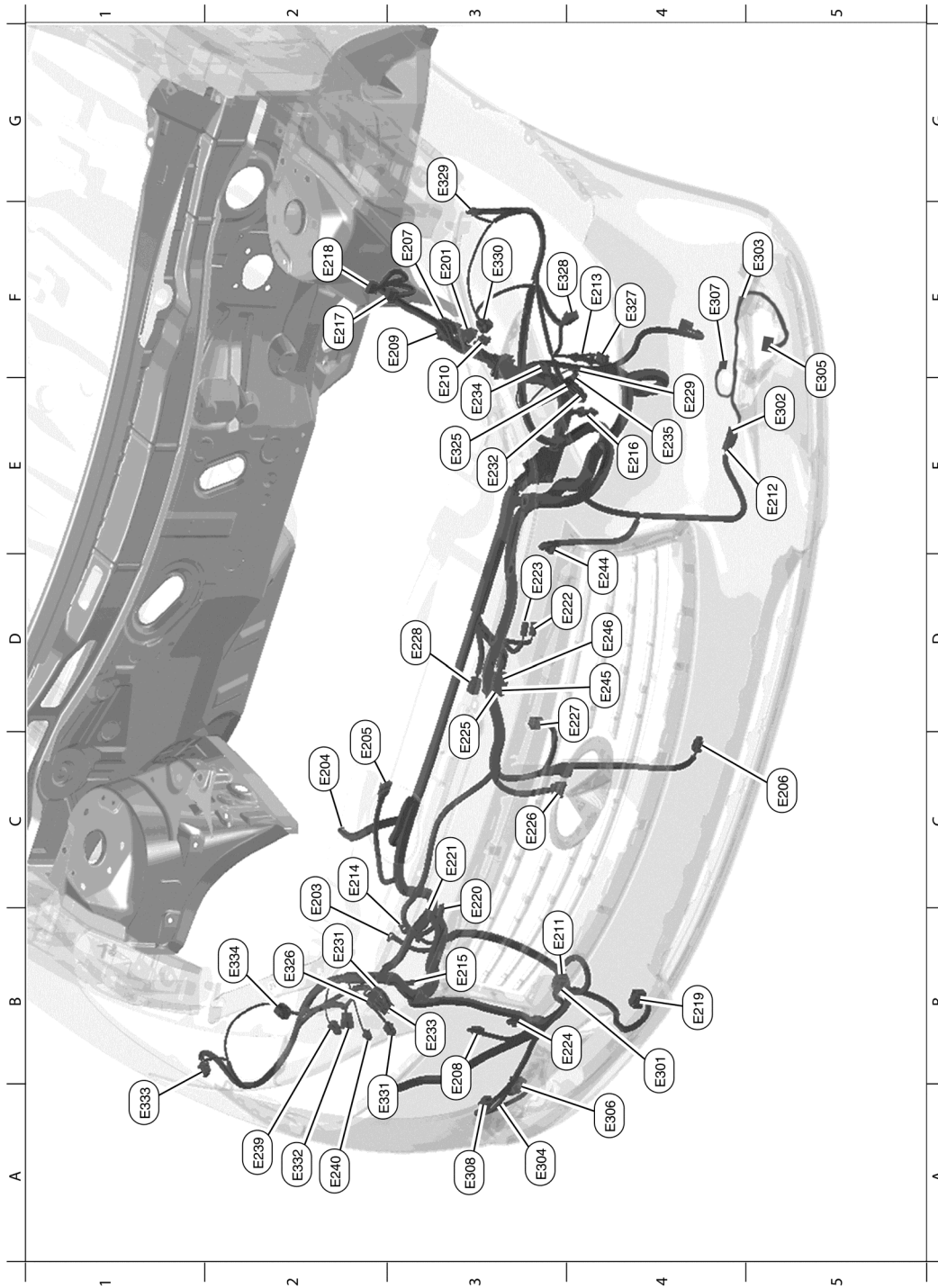
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|----|------|------|--|------------------------------------|------|------|---|
| C5 | E206 | B/2 | : Ambient sensor | A2 | E239 | GR/2 | : Front combination lamp rh |
| F3 | E207 | W/16 | : To E5 | A2 | E240 | GR/2 | : Front combination lamp rh |
| B3 | E208 | B/2 | : Washer fluid level switch | D4 | E244 | B/3 | : Refrigerant pressure sensor |
| F3 | E209 | W/24 | : To E26 | D4 | E245 | BR/2 | : Cooling fan control module (Cooling fan motor-1) |
| E3 | E210 | Y/4 | : To E29 | D4 | E246 | GR/2 | : Cooling fan control module (Cooling fan motor-2) |
| B3 | E211 | GR/8 | : To E301 | Front fog lamp sub harness | | | |
| E5 | E212 | GR/8 | : To E302 | B4 | E301 | GR/8 | : To E211 |
| F4 | E213 | — | : Body ground | E5 | E302 | GR/8 | : To E212 |
| C2 | E214 | — | : Body ground | F5 | E303 | GR/2 | : Front foglamp lh |
| B3 | E215 | — | : Body ground | A3 | E304 | GR/2 | : Front fog lamp rh |
| E4 | E216 | — | : Body ground | F5 | E305 | B/2 | : Front fog lamp lh |
| F2 | E217 | W/8 | : IPDM E/R (Intelligent power distribution module engine room) | A4 | E306 | B/2 | : Front fog lamp rh |
| F2 | E218 | W/16 | : IPDM E/R (Intelligent power distribution module engine room) | F4 | E307 | B/3 | : Front sonar sensor lh outer |
| B4 | E219 | B/10 | : Millimeter wave sensor | A3 | E308 | B/3 | : Front sonar sensor rh outer |
| C3 | E220 | B/1 | : Horn (High) | Front combination lamp sub harness | | | |
| C3 | E221 | B/1 | : Horn (High) | E3 | E325 | B/8 | : To E232 |
| D4 | E222 | B/1 | : Horn (Low) | B2 | E326 | GR/8 | : To E233 |
| D3 | E223 | B/1 | : Horn (Low) | F4 | E327 | B/2 | : Front combination lamp lh |
| B4 | E224 | B/2 | : Front and rear washer motor | F3 | E328 | GR/2 | : Front combination lamp lh |
| C3 | E225 | GR/3 | : Cooling fan control module | G3 | E329 | GR/2 | : Front combination lamp lh |
| C3 | E226 | B/6 | : Front camera | F3 | E330 | GR/3 | : Front combination lamp lh (Headlamp aiming motor) |
| D4 | E227 | B/3 | : Exhaust gas/outside odor detecting sensor | A2 | E331 | B/2 | : Front combination lamp rh |
| D3 | E228 | Y/2 | : Crash zone sensor | A2 | E332 | GR/2 | : Front combination lamp rh |
| E4 | E229 | — | : Body ground | A1 | E333 | GR/2 | : Front combination lamp rh |
| B2 | E231 | B/1 | : Anti theft horn | B2 | E334 | GR/3 | : Front combination lamp rh (Headlamp aiming motor) |

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< WIRING DIAGRAM >

FRONT END MODULE HARNESS



AAMIA1086GB

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|----|------|------|------------------|----|------|------|-----------------------------|
| F3 | E201 | B/2 | : To E40 | E3 | E232 | B/8 | : To E325 |
| C2 | E203 | — | : Body ground | B3 | E233 | GR/8 | : To E326 |
| C2 | E204 | — | : Generator | E3 | E234 | GR/2 | : Front combination lamp LH |
| C2 | E205 | BR/3 | : Hood switch | E4 | E235 | GR/2 | : Front combination lamp LH |
| C5 | E206 | B/2 | : Ambient sensor | A2 | E239 | GR/2 | : Front combination lamp RH |

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|----|------|------|--|------------------------------------|------|------|---|
| F3 | E207 | W/16 | : To E5 | A2 | E240 | GR/2 | : Front combination lamp RH |
| B3 | E208 | B/2 | : Washer fluid level switch | D4 | E244 | B/3 | : Refrigerant pressure sensor |
| F3 | E209 | W/24 | : To E26 | D4 | E245 | BR/2 | : Cooling fan control module (Cooling fan motor-1) |
| E3 | E210 | Y/4 | : To E29 | D4 | E246 | GR/2 | : Cooling fan control module (Cooling fan motor-2) |
| B3 | E211 | GR/8 | : To E301 | Front fog lamp sub harness | | | |
| E5 | E212 | GR/8 | : To E302 | B4 | E301 | GR/8 | : To E211 |
| F4 | E213 | — | : Body ground | E5 | E302 | GR/8 | : To E212 |
| C2 | E214 | — | : Body ground | F5 | E303 | GR/2 | : Front foglamp LH |
| B3 | E215 | — | : Body ground | A3 | E304 | GR/2 | : Front fog lamp RH |
| E4 | E216 | — | : Body ground | F5 | E305 | B/2 | : Front fog lamp LH |
| F2 | E217 | W/8 | : IPDM E/R (Intelligent power distribution module engine room) | A4 | E306 | B/2 | : Front fog lamp RH |
| F2 | E218 | W/16 | : IPDM E/R (Intelligent power distribution module engine room) | F4 | E307 | B/3 | : Front sonar sensor LH outer |
| B4 | E219 | B/10 | : Millimeter wave sensor | A3 | E308 | B/3 | : Front sonar sensor RH outer |
| C3 | E220 | B/1 | : Horn (High) | Front combination lamp sub harness | | | |
| C3 | E221 | B/1 | : Horn (High) | E3 | E325 | B/8 | : To E232 |
| D4 | E222 | B/1 | : Horn (Low) | B2 | E326 | GR/8 | : To E233 |
| D3 | E223 | B/1 | : Horn (Low) | F4 | E327 | B/2 | : Front combination lamp LH |
| B4 | E224 | B/2 | : Front and rear washer motor | F3 | E328 | GR/2 | : Front combination lamp LH |
| C3 | E225 | GR/3 | : Cooling fan control module | G3 | E329 | GR/2 | : Front combination lamp LH |
| C3 | E226 | B/6 | : Front camera | F3 | E330 | GR/3 | : Front combination lamp LH (Headlamp aiming motor) |
| D4 | E227 | B/3 | : Exhaust gas/outside odor detecting sensor | A2 | E331 | B/2 | : Front combination lamp RH |
| D3 | E228 | Y/2 | : Crash zone sensor | A2 | E332 | GR/2 | : Front combination lamp RH |
| E4 | E229 | — | : Body ground | A1 | E333 | GR/2 | : Front combination lamp RH |
| B2 | E231 | B/1 | : Anti theft horn | B2 | E334 | GR/3 | : Front combination lamp RH (Headlamp aiming motor) |

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< WIRING DIAGRAM >

ENGINE CONTROL HARNESS



AAMIA00742Z

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|----|----|------|--|----|-----|-------|---|
| B5 | F3 | B/2 | : A/C compressor | D3 | F42 | GR/2 | : Fuel injector no.5 |
| C5 | F5 | BR/4 | : Air fuel ratio (A/F) sensor 1 (bank 2) | D2 | F44 | B/3 | : Camshaft position sensor (PHASE) (bank 1) |
| C5 | F6 | — | : Generator | D4 | F45 | B/3 | : Camshaft position sensor (PHASE) (bank 2) |
| C4 | F7 | B/3 | : Generator | F4 | F46 | GR/22 | : CVT unit |

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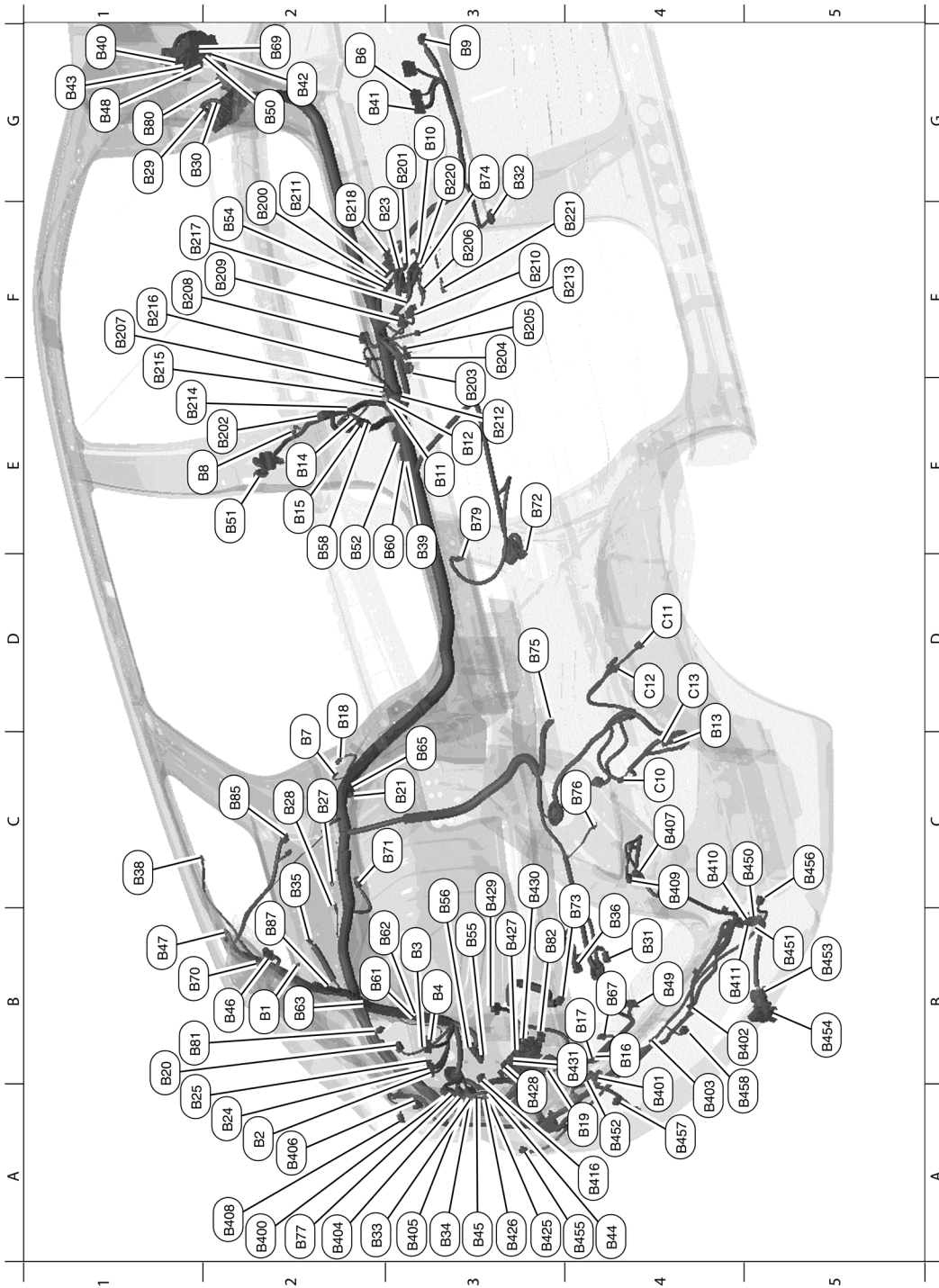
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| C4 | F8 | GR/3 | : Ignition coil no.2 (with power transistor) | C2 | F47 | GR/3 | : Ignition coil no.1 (with power transistor) | |
| C4 | F9 | GR/3 | : Ignition coil no.4 (with power transistor) | C2 | F48 | GR/3 | : Ignition coil no.3 (with power transistor) | |
| D4 | F10 | GR/3 | : Ignition coil no.6 (with power transistor) | D2 | F49 | GR/3 | : Ignition coil no.5 (with power transistor) | |
| D4 | F11 | B/3 | : Crankshaft position sensor (POS) | E2 | F50 | B/6 | : Electric throttle control actuator | |
| E4 | F12 | B/4 | : Heated oxygen sensor 2 (bank 2) | E5 | F51 | B/48 | : ECM | |
| B2 | F13 | B/4 | : Heated oxygen sensor 2 (bank 1) | F4 | F52 | BR/48 | : ECM | |
| E5 | F14 | B/10 | : Joint connector-F01 | E5 | F53 | B/10 | : Joint connector-F03 | |
| E5 | F15 | B/48 | : TCM (transmission control module) | B3 | F54 | B/3 | : Engine oil pressure sensor | |
| D4 | F16 | GR/2 | : EVAP canister purge volume control solenoid valve | F5 | F55 | B/10 | : Joint connector-F04 | |
| F3 | F17 | B/1 | : IPDM E/R (intelligent power distribution module engine room) | G4 | F56 | W/4 | : Joint connector-F07 | |
| C3 | F18 | GR/2 | : Fuel injector no.2 | G4 | F57 | W/4 | : Joint connector-F08 | |
| G3 | F19 | W/10 | : IPDM E/R (intelligent power distribution module engine room) | C2 | F58 | GR/6 | : Joint connector-F09 | |
| C3 | F20 | GR/2 | : Fuel injector no.4 | B4 | F59 | — | : Engine ground | |
| D3 | F21 | GR/2 | : Condenser-1 | B3 | F60 | — | : Engine ground | |
| D3 | F22 | GR/2 | : Fuel injector no.6 | E3 | F61 | GR/2 | : Engine coolant temperature sensor | |
| E2 | F23 | B/3 | : Output speed sensor | B2 | F62 | GR/2 | : Intake valve timing control solenoid valve (bank 1) | |
| G2 | F24 | W/12 | : IPDM E/R (intelligent power distribution module engine room) | B3 | F63 | GR/2 | : Intake valve timing control solenoid valve (bank 2) | |
| D3 | F26 | B/4 | : To F201 | B3 | F64 | BR/2 | : Electronic controlled engine mount control solenoid valve | |
| F4 | F27 | — | : Starter motor | D2 | F65 | BR/4 | : Air fuel ratio (A/F) sensor 1 (bank 1) | |
| E4 | F28 | GR/1 | : Starter motor | C3 | F66 | B/2 | : VIAS control solenoid valve 1 | |
| B3 | F30 | GR/2 | : Fuel injector no.1 | C3 | F67 | B/2 | : VIAS control solenoid valve 2 | |
| E3 | F31 | B/6 | : Mass air flow sensor | C2 | F68 | GR/2 | : Engine oil temperature sensor | |
| G3 | F32 | W/16 | : To E2 | Knock sensor sub harness | | | | |
| F4 | F33 | W/10 | : To E19 | D3 | F201 | L/4 | : To F26 | |
| F5 | F34 | GR/4 | : Battery current sensor | D3 | F202 | GR/2 | : Knock sensor (bank 1) | |
| F3 | F39 | — | : Fusible link box (battery) | C3 | F204 | GR/2 | : Knock sensor (bank 2) | |
| C3 | F41 | GR/2 | : Fuel injector no.3 | | | | | |

HARNESSES

< WIRING DIAGRAM >

BODY HARNESS



AAMIA1079GB

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|--------------|-----|------|------------------------|----|-----|------|-------------------------------------|
| C4 | C10 | B/2 | : Rear wheel sensor lh | E3 | B72 | GR/6 | : Fuel level sensor and fuel pump |
| D4 | C11 | GR/2 | : Rear wheel sensor rh | C4 | B73 | GR/6 | : Subwoofer |
| D4 | C12 | GR/2 | : Awd solenoid | G3 | B74 | W/12 | : To B220 |
| D4 | C13 | B/14 | : To B13 | D3 | B75 | W/16 | : To B145 |
| Body harness | | | | C4 | B76 | GR/2 | : Inside key antenna (Luggage room) |

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|----|-----|-------|--|-----------------------|------|-------|--|
| B2 | B1 | BR/2 | : Rear side speaker lh | A2 | B77 | W/32 | : To B400 |
| A2 | B2 | W/16 | : Satellite radio tuner | E3 | B79 | W/3 | : 2nd row seat heater lh |
| B3 | B3 | W/32 | : Bluetooth® control unit | G1 | B80 | W/4 | : Joint connector-B17 |
| B3 | B4 | W/8 | : Bluetooth® control unit | B1 | B81 | GR/3 | : Rear cargo power socket |
| G2 | B6 | W/24 | : To M66 | B3 | B82 | B/8 | : Inverter unit |
| C2 | B7 | — | : Body ground | C2 | B85 | W/10 | : Sunshade motor assembly |
| E1 | B8 | W/4 | : Front door switch lh | B2 | B87 | W/4 | : Joint connector-B16 |
| G3 | B9 | Y/15 | : Air bag diagnosis sensor unit | Front seat lh harness | | | |
| G3 | B10 | Y/2 | : Front lh side air bag module | G2 | B200 | BR/12 | : To B54 |
| E3 | B11 | W/4 | : Joint connector-B09 | G3 | B201 | W/24 | : To B23 |
| E3 | B12 | W/4 | : Joint connector-B10 | E2 | B202 | W/32 | : Headrest display unit (Driver seat) |
| D4 | B13 | B/14 | : To C13 | E3 | B203 | B/16 | : Climate controlled seat control unit (Driver seat) |
| E2 | B14 | Y/2 | : Front lh seat belt pre-tensioner | F3 | B204 | B/8 | : Climate controlled seat control unit (Driver seat) |
| E2 | B15 | Y/2 | : Front side air bag satellite sensor lh | F3 | B205 | B/6 | : Climate controlled seat control unit (Driver seat) |
| B4 | B16 | W/4 | : Joint connector-B11 | F3 | B206 | W/4 | : Seat cushion thermal electric device (Driver seat) |
| B4 | B17 | W/4 | : Joint connector-B12 | F1 | B207 | W/6 | : Lifting motor lh (Rear) |
| D2 | B18 | W/4 | : Rear door switch lh | F1 | B208 | W/10 | : Power seat switch lh |
| A4 | B19 | — | : Body ground | F2 | B209 | W/32 | : Driver seat control unit |
| B1 | B20 | W/4 | : Fuel lid door lock actuator | F3 | B210 | W/12 | : Driver seat control unit |
| C3 | B21 | W/4 | : Joint connector-B20 | G2 | B211 | GR/5 | : Sliding motor lh |
| F2 | B23 | W/24 | : To B201 | E3 | B212 | W/4 | : Seat back thermal electric device (Driver seat) |
| A2 | B24 | W/32 | : Video distributor | F4 | B213 | W/5 | : Climate controlled seat blower motor (Driver seat) |
| A1 | B25 | W/24 | : Video distributor | E1 | B214 | BR/4 | : Lumbar support switch |
| C2 | B27 | — | : Body ground | F1 | B215 | B/2 | : Lumbar support motor |
| C2 | B28 | — | : Body ground | F1 | B216 | W/3 | : Front seat heater (Driver seat) |
| G1 | B29 | W/6 | : Fuse block (J/B) | F1 | B217 | W/6 | : Reclining motor lh |
| G1 | B30 | W/8 | : Fuse block (J/B) | F2 | B218 | W/6 | : Lifting motor lh (Front) |
| B4 | B31 | B/2 | : Evap canister vent control valve | G3 | B220 | W/12 | : To B74 |
| G3 | B32 | W/32 | : To B124 | F4 | B221 | W/4 | : Seat belt buckle switch (Driver seat) |
| A2 | B33 | B/2 | : To B404 | Body no.3 harness | | | |
| A3 | B34 | W/8 | : To B405 | A2 | B400 | W/32 | : To B77 |
| C2 | B35 | W/4 | : Sonar buzzer | A4 | B401 | B/12 | : To B452 |
| B4 | B36 | GR/3 | : Evap control system pressure sensor | B4 | B402 | BR/2 | : Back door warning chime |
| C1 | B38 | Y/2 | : Lh side curtain air bag module | A4 | B403 | GR/2 | : Outside key antenna (Rear bumper) |
| E3 | B39 | W/4 | : Joint connector-B05 | A2 | B404 | B/2 | : To B33 |
| G1 | B40 | W/24 | : To E34 | A3 | B405 | W/8 | : To B34 |
| G2 | B41 | W/32 | : To M69 | A2 | B406 | GR/3 | : Rear combination lamp lh |
| G2 | B42 | BR/12 | : To M74 | C4 | B407 | GR/3 | : Rear combination lamp rh |
| G1 | B43 | W/12 | : To E33 | A2 | B408 | GR/2 | : Rear combination lamp lh |

HARNESS

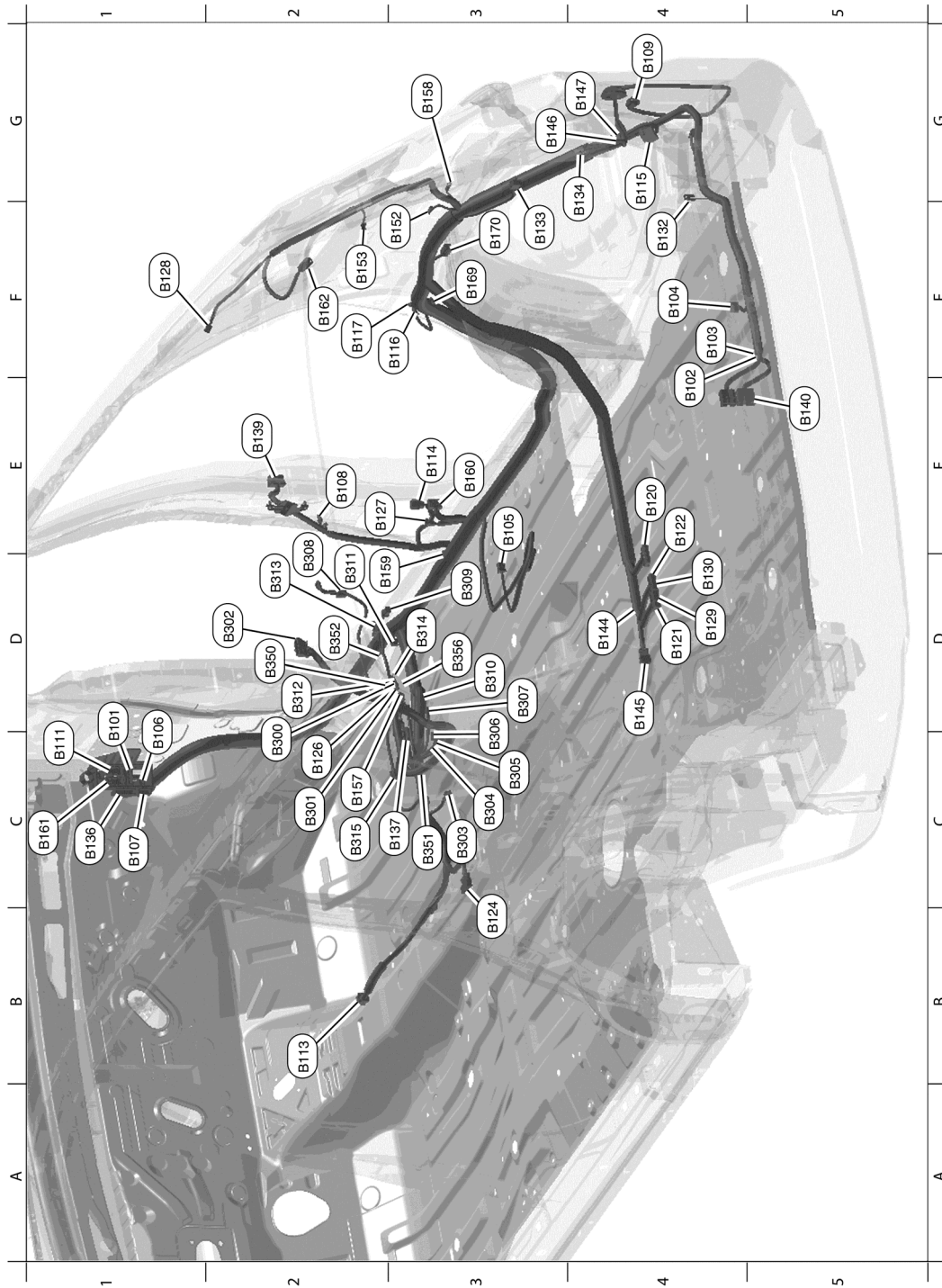
< WIRING DIAGRAM >

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| A4 | B44 | B/2 | : To B425 | C4 | B409 | GR/2 | : Rear combination lamp rh |
| A3 | B45 | W/16 | : To B426 | C4 | B410 | GR/6 | : To B450 |
| B2 | B46 | W/24 | : To D501 | B4 | B411 | B/2 | : To B451 |
| B1 | B47 | W/8 | : To D502 | A4 | B416 | B/6 | : Side radar lh |
| G1 | B48 | W/1 | : To E35 | Trailer relay sub harness | | | |
| B4 | B49 | W/16 | : To B140 | A3 | B425 | B/2 | : To B44 |
| G2 | B50 | W/10 | : To D1 | A3 | B426 | W/16 | : To B45 |
| E2 | B51 | W/12 | : To D201 | B3 | B427 | B/4 | : Trailer tow relay 1 |
| E2 | B52 | W/2 | : Condenser-2 | A3 | B428 | BR/6 | : Trailer tow relay 2 |
| F2 | B54 | BR/12 | : To B200 | C3 | B429 | B/4 | : Trailer turn relay lh |
| B3 | B55 | B/24 | : Automatic back door control module | C3 | B430 | B/4 | : Trailer turn relay rh |
| C3 | B56 | GR/16 | : Automatic back door control module | B4 | B431 | B/4 | : Trailer back-up relay |
| E2 | B58 | W/20 | : Pre-crash seat belt control unit (Driver side) | Body no.3 sub harness | | | |
| E3 | B60 | W/4 | : Joint connector-B06 | C5 | B450 | GR/6 | : To B410 |
| B2 | B61 | W/4 | : Joint connector-B18 | B5 | B451 | B/2 | : To B411 |
| B2 | B62 | W/4 | : Joint connector-B19 | A4 | B452 | B/12 | : To B401 |
| B2 | B63 | W/33 | : Joint connector-B01 | B5 | B453 | B/7 | : Trailer |
| C3 | B65 | W/4 | : Joint connector-B07 | B5 | B454 | B/7 | : Trailer receptacle |
| B4 | B67 | W/16 | : Awd control unit | A4 | B455 | B/3 | : Rear sonar sensor lh outer |
| G2 | B69 | W/57 | : To M40 | C5 | B456 | B/3 | : Rear sonar sensor rh outer |
| B1 | B70 | B/10 | : Spindle unit lh | A4 | B457 | B/3 | : Rear sonar sensor lh inner |
| C3 | B71 | Y/2 | : Rear side air bag satellite sensor lh | A5 | B458 | B/3 | : Rear sonar sensor rh inner |

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< WIRING DIAGRAM >
 BODY NO. 2 HARNESS



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| D1 | B101 | W/32 | : To M84 | G4 | B147 | W/4 | : Joint connector-B13 |
| E4 | B102 | W/4 | : Joint connector-B14 | F3 | B152 | — | : Body ground |
| F4 | B103 | W/4 | : Joint connector-B15 | F2 | B153 | BR/2 | : Rear side speaker rh |
| F4 | B104 | W/16 | : ADAS control unit | C2 | B157 | W/12 | : To B300 |

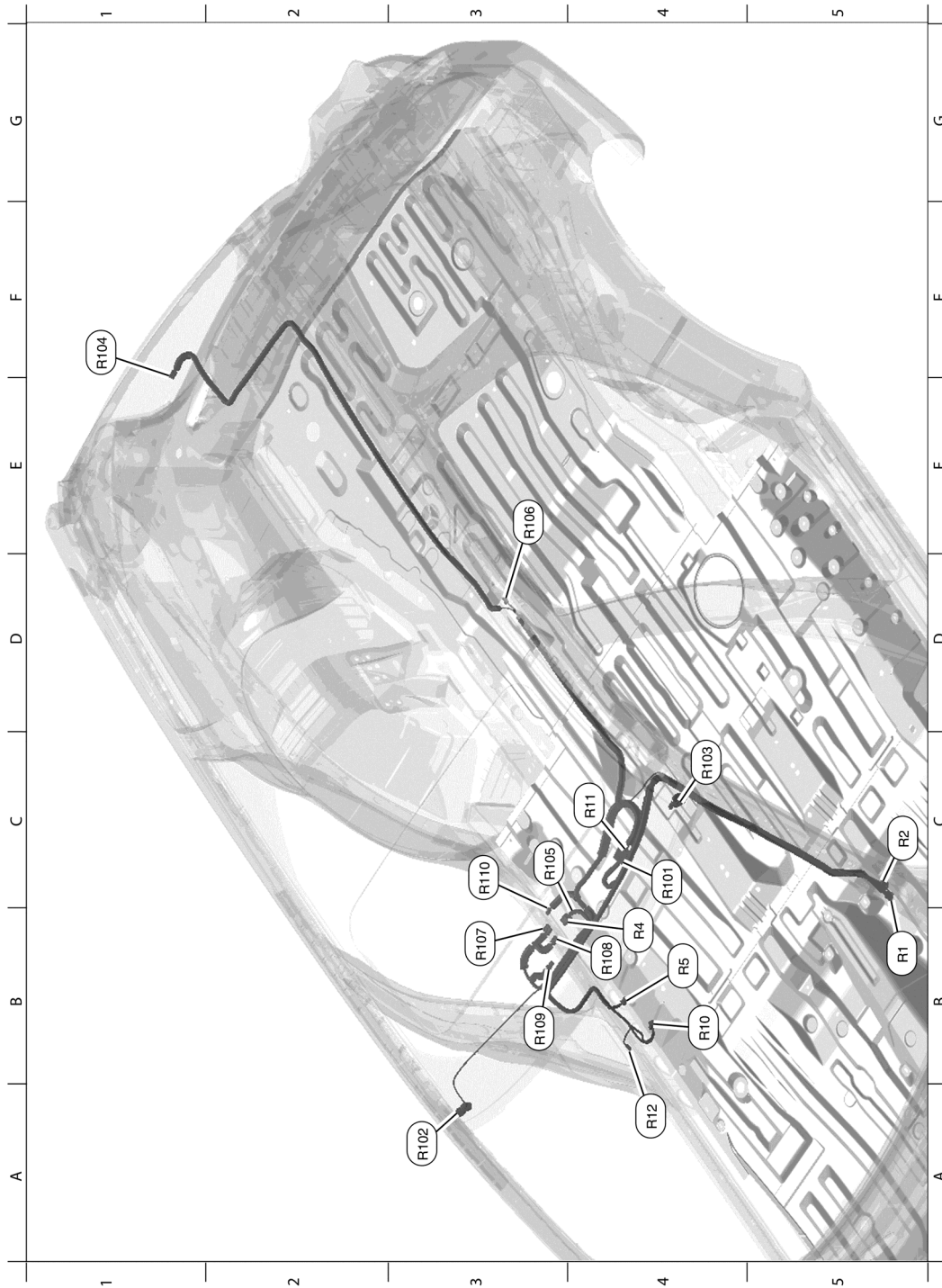
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| E3 | B105 | W/3 | : 2nd row seat heater rh | G3 | B158 | — | : Body ground | A | |
| D1 | B106 | W/1 | : To M8 | D2 | B159 | W/4 | : Joint connector-B21 | | |
| C1 | B107 | W/24 | : To M9 | E3 | B160 | W/20 | : Pre-crash seat belt control unit (Passenger side) | B | |
| E2 | B108 | W/4 | : Front door switch rh | C1 | B161 | W/16 | : To M157 | | |
| G4 | B109 | B/6 | : Side radar rh | F2 | B162 | B/10 | : Spindle unit rh | C | |
| C1 | B111 | BR/16 | : To M10 | F3 | B169 | W/4 | : Joint connector-B04 | | |
| B2 | B113 | Y/14 | : Air bag diagnosis sensor unit | F3 | B170 | Y/2 | : Rear side air bag satellite sensor rh | | |
| E3 | B114 | Y/2 | : Side air bag satellite sensor rh | Front seat rh harness | | | | | D |
| G4 | B115 | W/33 | : Joint connector-B08 | C2 | B300 | W/12 | : To B157 | | |
| F3 | B116 | W/4 | : Rear door switch rh | C2 | B301 | W/24 | : To B137 | | |
| F2 | B117 | — | : Body ground | D2 | B302 | — | : Headrest display unit (Passenger seat) | E | |
| E4 | B120 | W/40 | : Bose speaker amp. (With surround sound system) | C3 | B303 | W/4 | : Seat belt buckle switch (Passenger seat) | F | |
| D4 | B121 | BR/14 | : Bose speaker amp. (With surround sound system) | C3 | B304 | B/6 | : Climate controlled seat control unit (Passenger seat) | G | |
| E4 | B122 | BR/23 | : Bose speaker amp. (With surround sound system) | C3 | B305 | B/8 | : Climate controlled seat control unit (Passenger seat) | | |
| B3 | B124 | W/32 | : To B32 | D3 | B306 | B/16 | : Climate controlled seat control unit (Passenger seat) | H | |
| C2 | B126 | Y/2 | : Front rh side air bag module | D3 | B307 | W/5 | : Climate controlled seat blower moter (Passenger seat) | I | |
| E2 | B127 | Y/2 | : Front rh seat belt pre-tensioner | E2 | B308 | W/4 | : Seat cushion thermal electric device (Passenger seat) | | |
| F1 | B128 | Y/2 | : Rh side curtain air bag module | D3 | B309 | W/4 | : Seat back thermal electric device (Passenger seat) | J | |
| D4 | B129 | BR/14 | : Bose speaker amp. (Without surround sound system) | D3 | B310 | W/6 | : Lifting motor rh (Rear) | K | |
| D4 | B130 | BR/23 | : Bose speaker amp. (Without surround sound system) | D2 | B311 | W/6 | : Reclining motor rh | | |
| F4 | B132 | — | : Body ground | D2 | B312 | W/4 | : To B350 | L | |
| F3 | B133 | W/4 | : Rear blower motor resistor 2 | D2 | B313 | W/10 | : Power seat switch rh | | |
| G4 | B134 | W/2 | : Rear blower motor 2 | D3 | B314 | GR/5 | : Sliding motor rh | PG | |
| C1 | B136 | W/40 | : To M36 | C2 | B315 | W/3 | : Front seat heater (Passenger seat) | | |
| C3 | B137 | W/24 | : To B301 | ODS sub harness | | | | | |
| E2 | B139 | W/12 | : To D301 | D2 | B350 | W/4 | : To B312 | N | |
| E5 | B140 | W/16 | : To B49 | C3 | B351 | B/3 | : Occupant classification system sensor (FL) | | |
| D4 | B144 | W/4 | : Joint connector-B11 | D2 | B352 | B/3 | : Occupant classification system sensor (FR) | O | |
| D4 | B145 | W/16 | : To B75 | D3 | B356 | B/20 | : Occupant classification system control unit | P | |
| G3 | B146 | W/4 | : Joint connector-B12 | | | | | | |

HARNESS

< WIRING DIAGRAM > ROOM LAMP HARNESS



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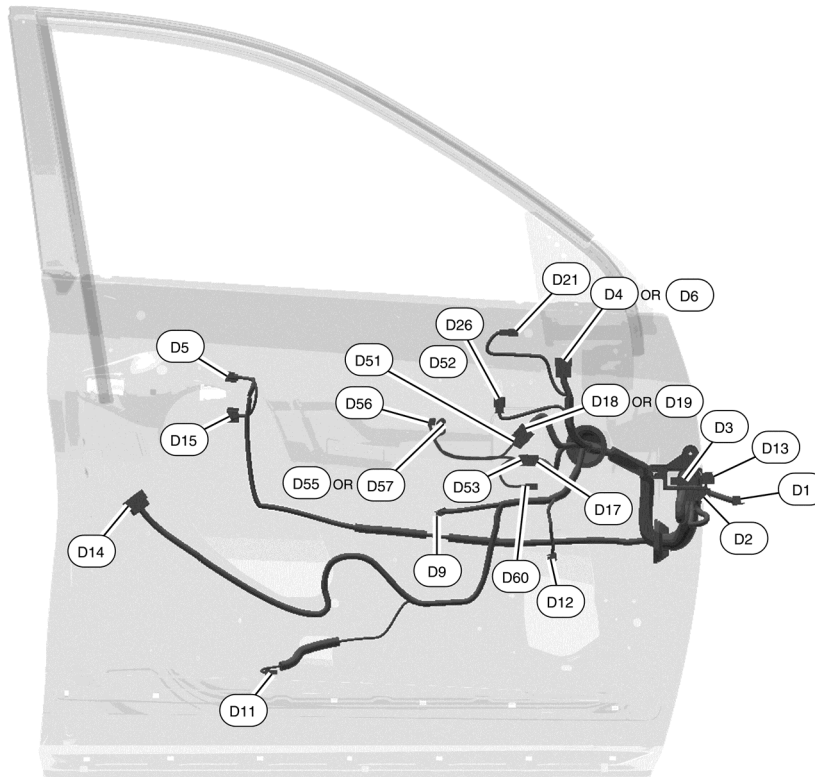
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| B5 | R1 | W/24 | : To M1 | A3 | R102 | W/2 | : Vanity lamp rh |
| C5 | R2 | W/12 | : To M2 | C4 | R103 | W/2 | : Vanity lamp lh |
| B4 | R4 | GR/10 | : Moonroof motor assembly | F1 | R104 | W/3 | : Cargo lamp |
| B4 | R5 | W/10 | : Lane camera unit | C3 | R105 | W/8 | : Telematics switch |
| B4 | R10 | B/10 | : Auto anti-dazzling inside mirror | E3 | R106 | W/4 | : Personal lamp 2nd row |

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| C4 | R11 | W/24 | : To R101 | B3 | R107 | GR/8 | : Front room/map lamp assembly |
| A4 | R12 | B/3 | : Light and rain sensor | B4 | R108 | W/8 | : Moonroof switch |
| Room lamp sub harness | | | | B3 | R109 | W/4 | : Microphone |
| C4 | R101 | W/24 | : To R11 | C3 | R110 | W/4 | : Sunshade switch |

FRONT DOOR LH HARNESS



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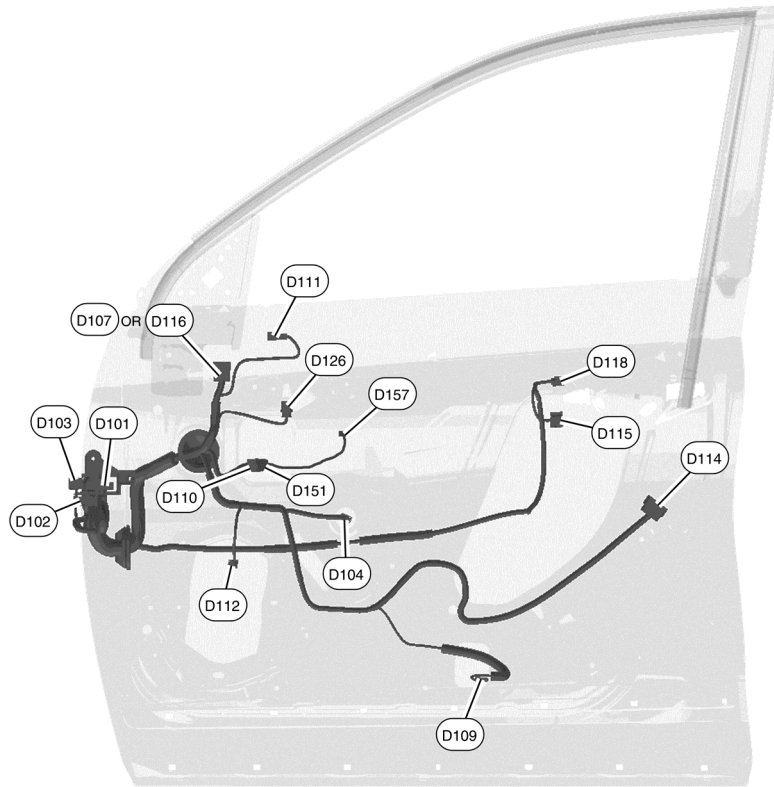
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| D1 | W/10 | : To B50 | D18 | W/16 | : To D51 |
| D2 | W/10 | : To M167 | D19 | W/24 | : To D52 |
| D3 | W/40 | : To M168 | D21 | W/4 | : Blind spot warning/blind spot intervention indicator lh |
| D4 | W/12 | : Door mirror lh (Without automatic drive positioner) | D26 | Y/2 | : Front door satellite sensor lh |
| D5 | GR/2 | : Outside key antenna (Driver side) | Front door lh sub harness | | |
| D6 | W/24 | : Door mirror lh (With automatic drive positioner) | D51 | W/16 | : To D18 |
| D9 | W/6 | : Front power window motor lh | D52 | W/24 | : To D19 |
| D11 | W/2 | : Front step lamp lh | D53 | W/8 | : To D17 |
| D12 | W/2 | : Front door speaker lh | D55 | W/12 | : Main power window and door lock/unlock switch (Door mirror remote control switch) (Without automatic drive positioner) |
| D13 | Y/4 | : To M169 | D56 | W/16 | : Main power window and door lock/unlock switch |
| D14 | GR/6 | : Front door lock assembly lh | D57 | W/12 | : Main power window and door lock/unlock switch (Door mirror remote control switch) (With automatic drive positioner) |

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| D15 | W/6 | : Front outside handle assembly lh | D60 | W/16 | : Seat memory switch |
| D17 | W/8 | : To D53 | | | |

FRONT DOOR RH HARNESS



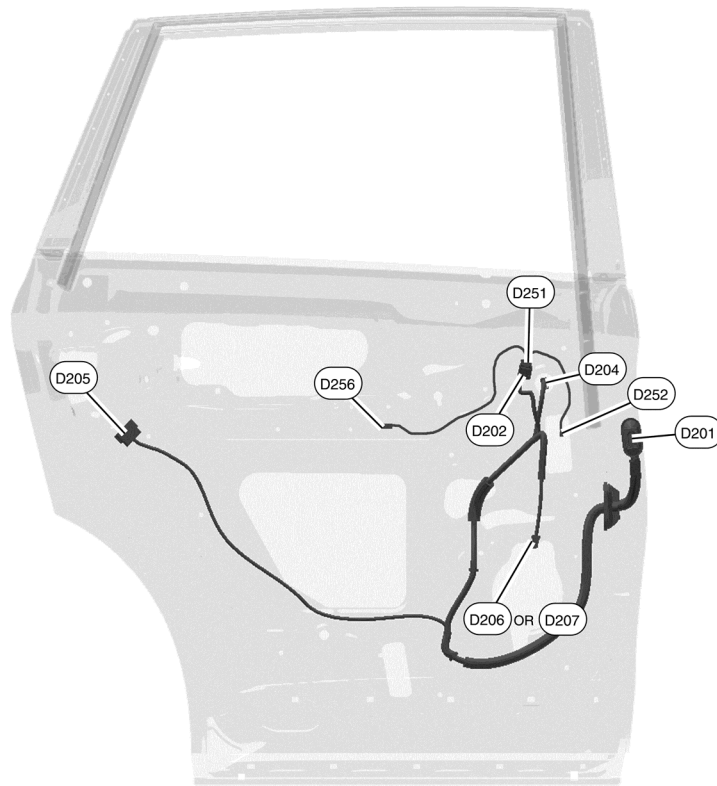
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| D101 | W/32 | : To M91 | D114 | GR/6 | : Front door lock actuator rh |
| D102 | W/10 | : To M158 | D115 | W/6 | : Front outside handle assembly rh |
| D103 | Y/4 | : To M159 | D116 | W/24 | : Door mirror rh (With automatic drive positioner) |
| D104 | W/6 | : Front power window motor rh | D118 | GR/2 | : Outside key antenna (Passenger side) |
| D107 | W/12 | : Door mirror rh (Without automatic drive positioner) | D126 | Y/2 | : Front door satellite sensor rh |
| D109 | W/2 | : Front step lamp rh | Front door rh sub harness | | |
| D110 | W/10 | : To D151 | D151 | W/10 | : To D110 |
| D111 | W/4 | : Blind spot warning/blind spot intervention indicator rh | D157 | W/16 | : Power window and door lock/unlock switch rh |
| D112 | W/2 | : Front door speaker rh | | | |

HARNESS

< WIRING DIAGRAM >

REAR DOOR LH HARNESS



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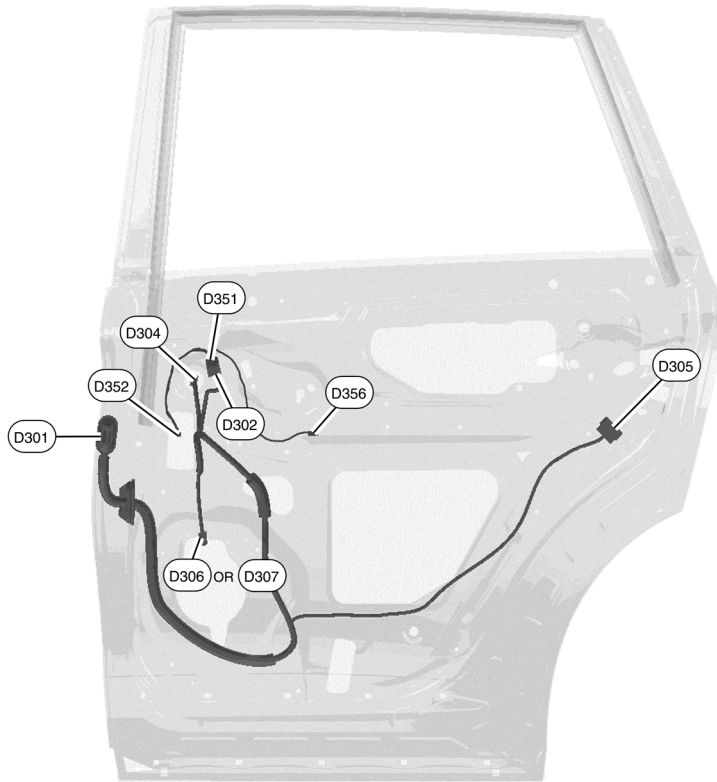
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| D201 | W/12 | : To B51 | D207 | BR/2 | : Rear door speaker lh (With Bose audio system) |
| D202 | W/12 | : To D251 | Rear door lh sub harness | | |
| D204 | W/6 | : Rear power window motor lh | D251 | W/12 | : To D202 |
| D205 | GR/6 | : Rear door lock actuator lh | D252 | BR/2 | : Rear door tweeter lh |
| D206 | W/2 | : Rear door speaker lh (With base audio system) | D256 | W/16 | : Rear power window switch lh |

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REAR DOOR RH HARNESS



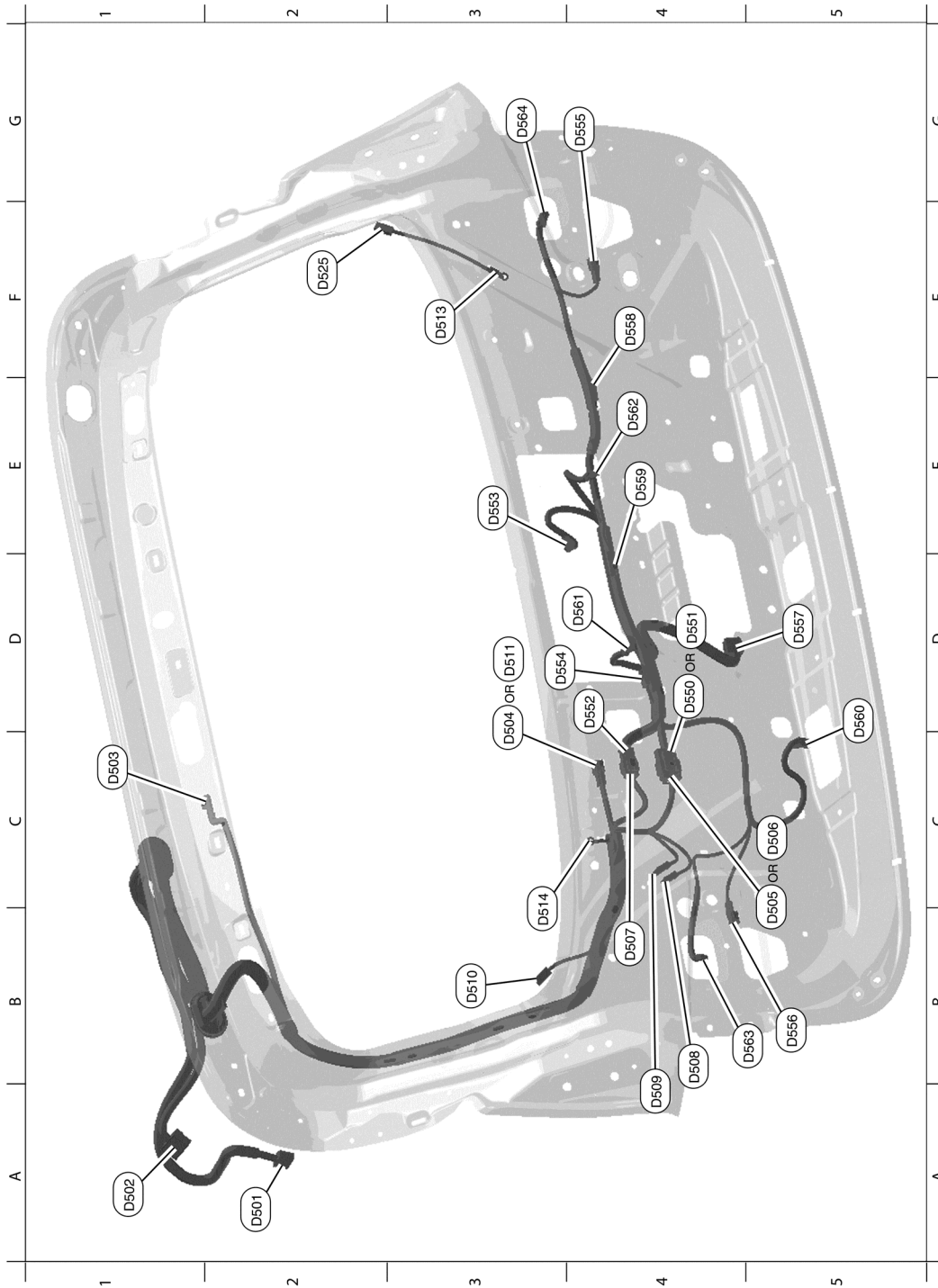
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| D301 | W/12 | : To B139 | D307 | BR/2 | : Rear door speaker rh (With Bose audio system) |
| D302 | W/12 | : To D351 | Rear door rh sub harness | | |
| D304 | W/6 | : Rear power window motor rh | D351 | W/12 | : To D302 |
| D305 | GR/6 | : Rear door lock actuator rh | D352 | BR/2 | : Rear door tweeter rh |
| D306 | BR/2 | : Rear door speaker rh (With base audio system) | D356 | W/16 | : Rear power window switch rh |

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< WIRING DIAGRAM >

BACK DOOR



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|----|------|------|---|----|------|------|-----------------------|
| A2 | D501 | W/24 | : To B46 | D4 | D550 | W/6 | : To D505 |
| A1 | D502 | W/8 | : To B47 | D4 | D551 | W/6 | : To D506 |
| C1 | D503 | BR/2 | : High-mounted stop lamp | D4 | D552 | W/16 | : To D507 |
| D3 | D504 | W/4 | : Rear view camera (With base audio system) | E3 | D553 | W/3 | : Rear wiper motor |
| C5 | D505 | W/6 | : To D550 | D3 | D554 | W/4 | : Joint connector-D01 |

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| C5 | D506 | W/6 | : To D551 | G4 | D555 | GR/2 | : Touch sensor rh |
| B4 | D507 | W/16 | : To D552 | B5 | D556 | W/2 | : Touch sensor lh |
| B4 | D508 | B/1 | : Rear window defogger condenser | D5 | D557 | W/8 | : Back door lock assembly |
| A4 | D509 | B/1 | : Rear window defogger condenser | F4 | D558 | — | : Diode-2 |
| B3 | D510 | B/1 | : Rear window defogger | E4 | D559 | W/4 | : Back door opener switch |
| D3 | D511 | W/8 | : Rear view camera (With Bose audio system) | D5 | D560 | B/8 | : Automatic back door close switch |
| F3 | D513 | — | : Body ground | D4 | D561 | BR/2 | : License plate lamp lh |
| C3 | D514 | — | : Body ground | E4 | D562 | BR/2 | : License plate lamp rh |
| F2 | D525 | B/1 | : Rear window defogger | B5 | D563 | W/2 | : Back-up lamp rh |
| Back door rh harness | | | | G3 | D564 | W/2 | : Back-up lamp lh |

ELECTRICAL UNITS LOCATION

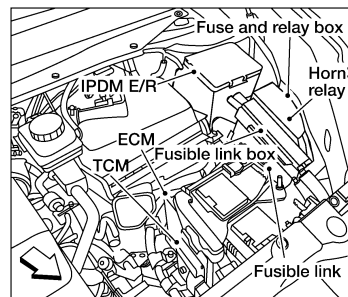
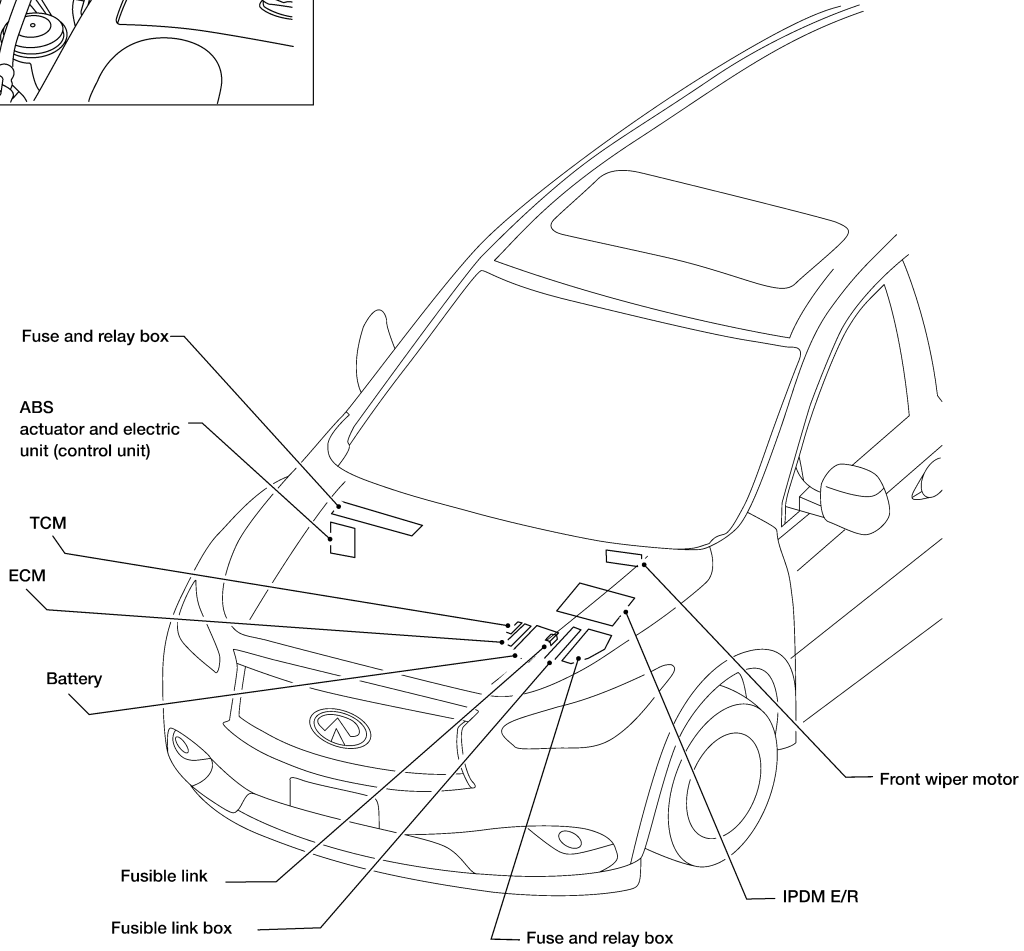
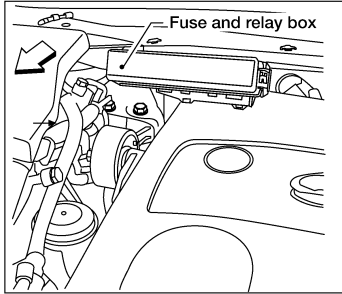
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ELECTRICAL UNITS LOCATION

Electrical Units Location

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ENGINE COMPARTMENT

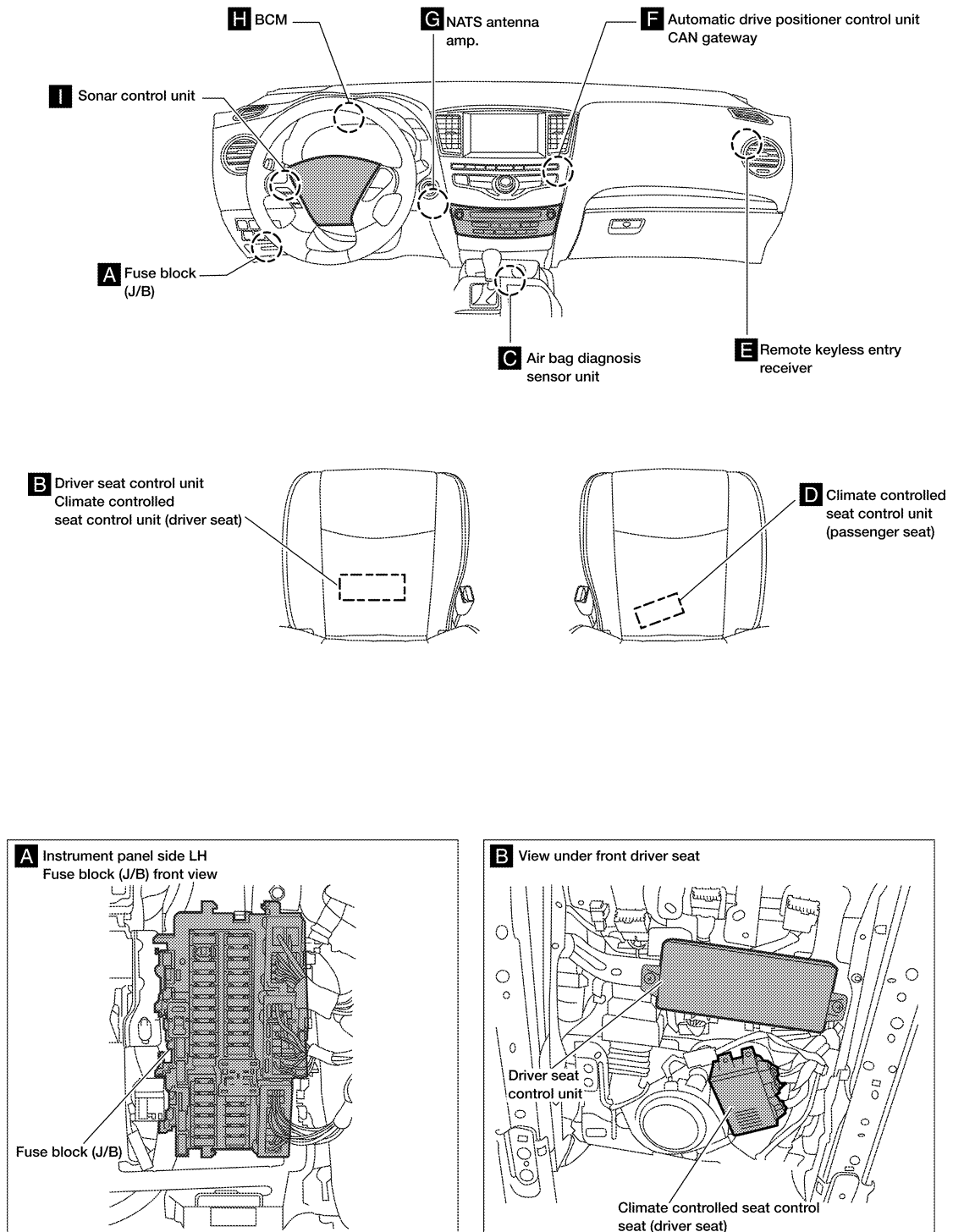


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ELECTRICAL UNITS LOCATION

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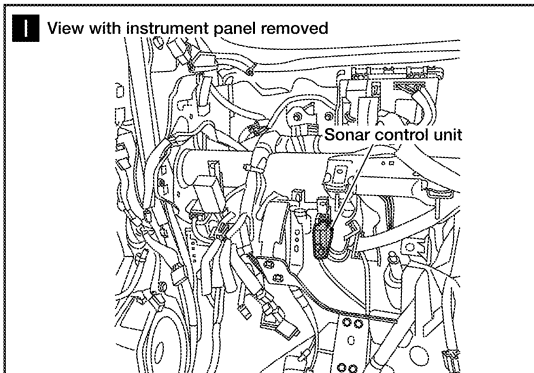
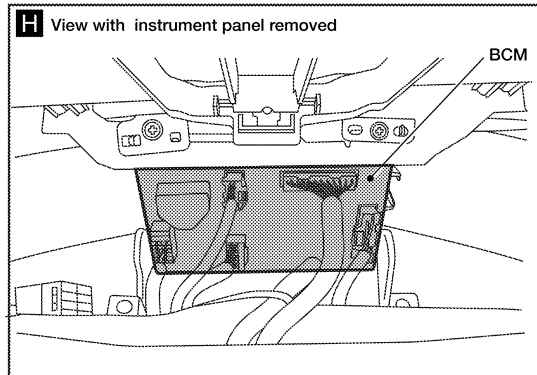
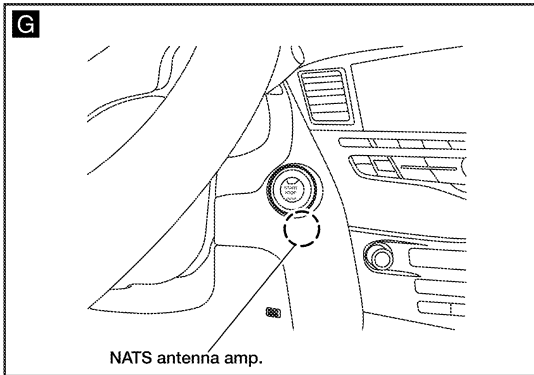
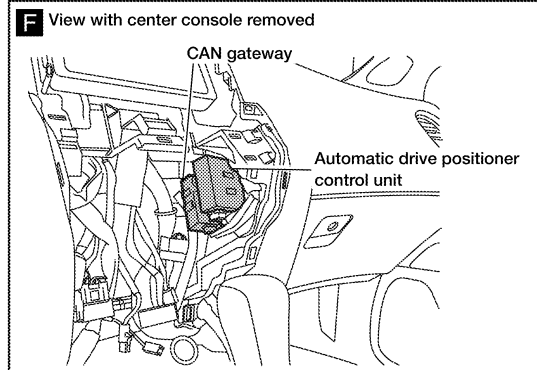
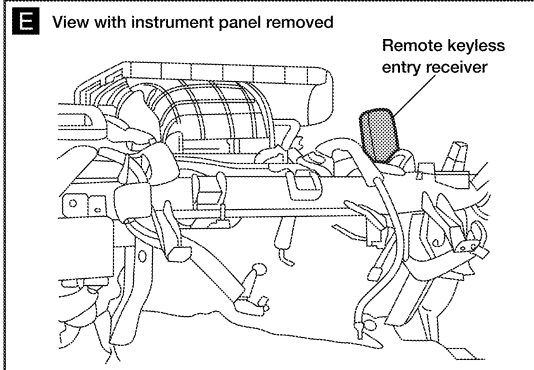
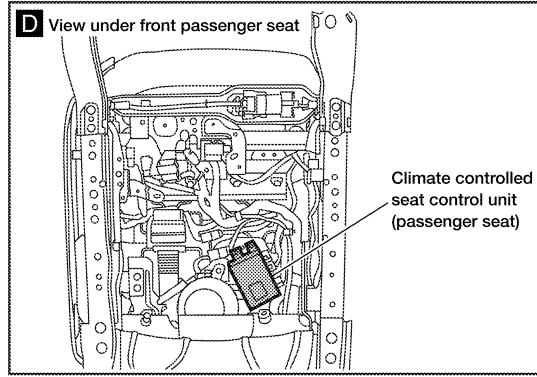
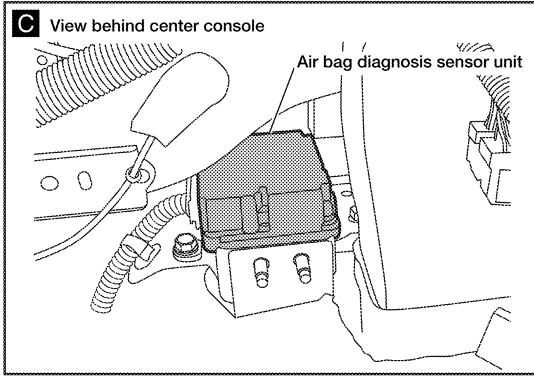
PASSENGER COMPARTMENT



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ELECTRICAL UNITS LOCATION

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HARNESS CONNECTOR

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HARNESS CONNECTOR

Description

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HARNESS CONNECTOR (TAB-LOCKING TYPE)

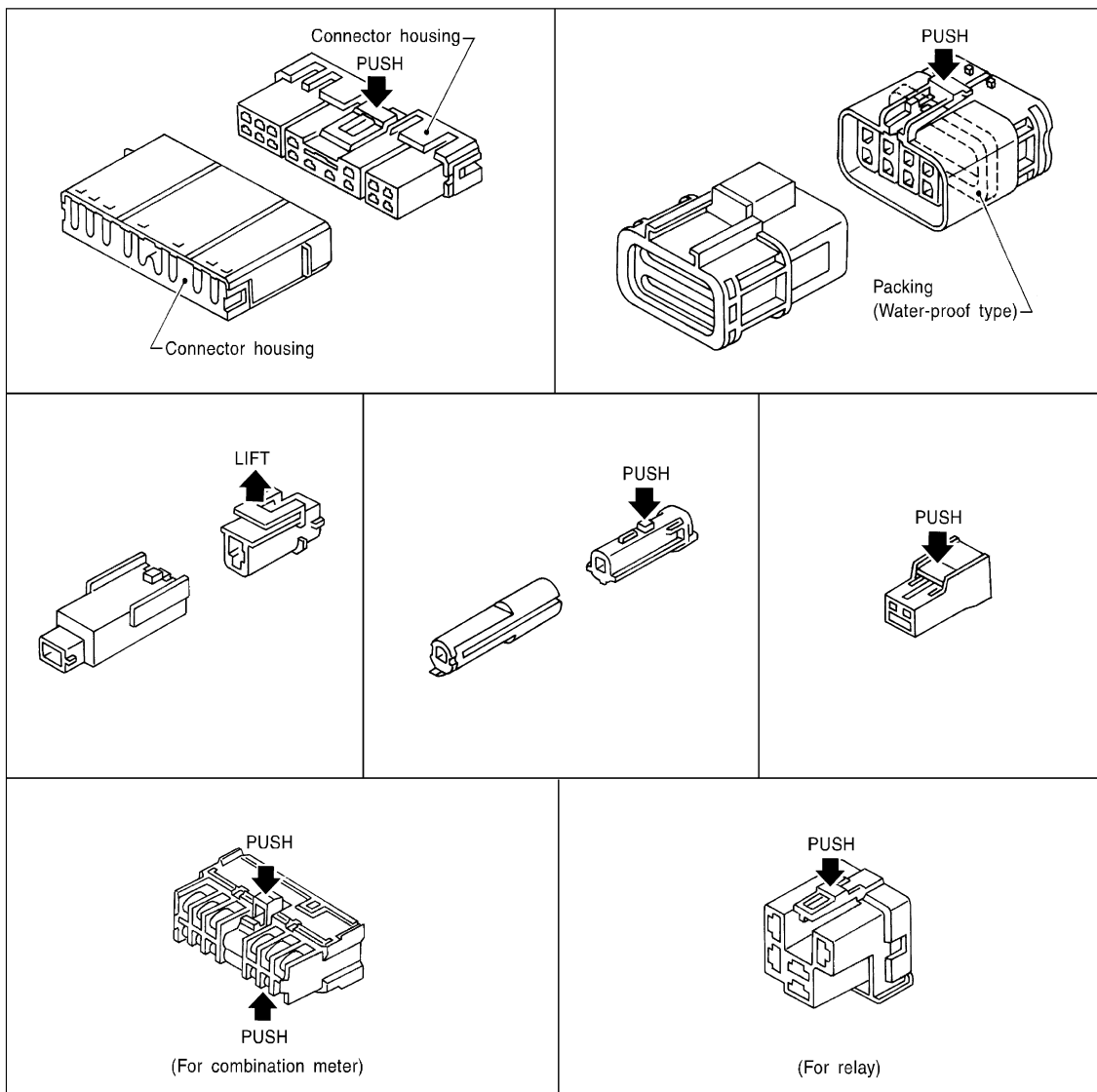
- The tab-locking type connectors help prevent accidental looseness or disconnection.
- The tab-locking type connectors are disconnected by pushing or lifting the locking tab(s). Refer to the figure below.

Refer to the next page for description of the slide-locking type connector.

CAUTION:

Do not pull the harness or wires when disconnecting the connector.

[Example]



SEL769DA

HARNESS CONNECTOR (SLIDE-LOCKING TYPE)

- A new style slide-locking type connector is used on certain systems and components, especially those related to OBD.
- The slide-locking type connectors help prevent incomplete locking and accidental looseness or disconnection.

HARNESS CONNECTOR

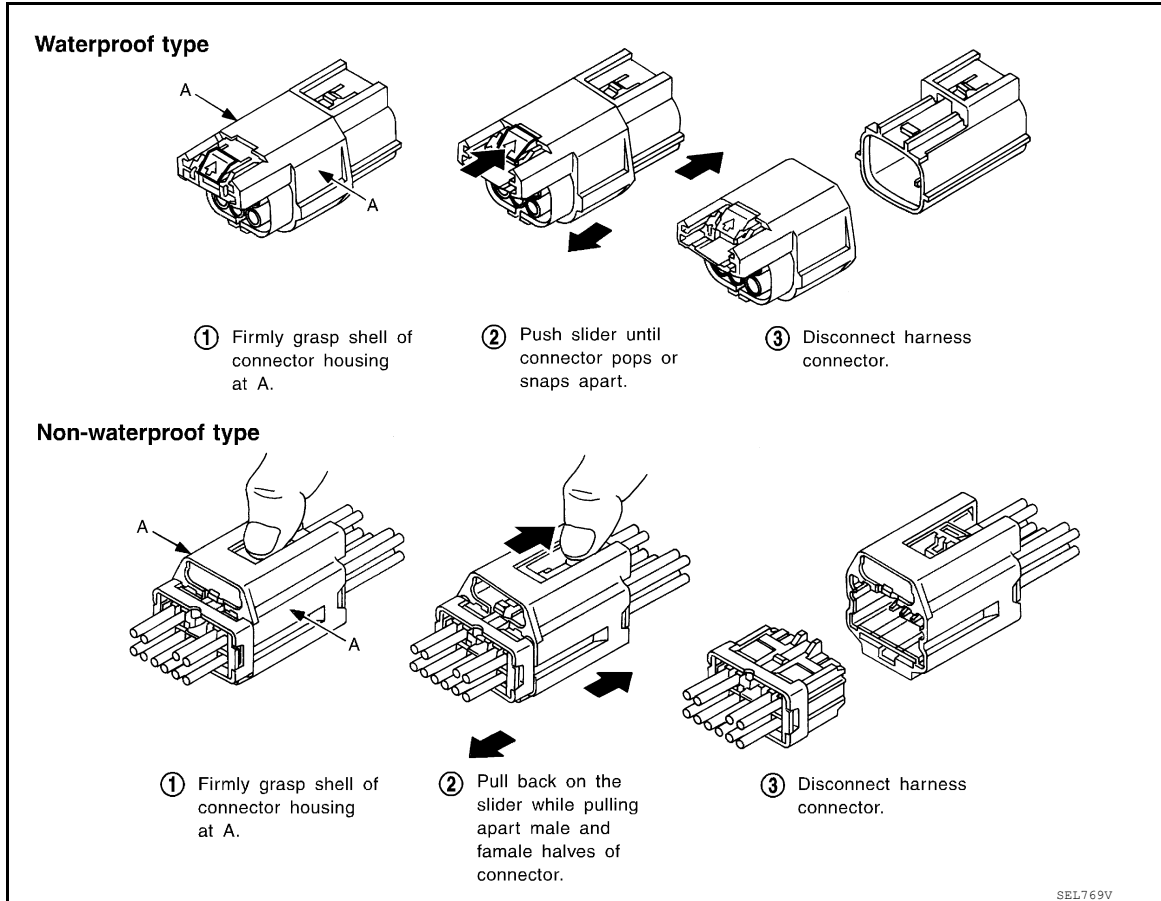
< WIRING DIAGRAM >

- The slide-locking type connectors are disconnected by pushing or pulling the slider. Refer to the figure below.

CAUTION:

- Do not pull the harness or wires when disconnecting the connector.
- Be careful not to damage the connector support bracket when disconnecting the connector.

[Example]



HARNESS CONNECTOR (LEVER LOCKING TYPE)

- Lever locking type harness connectors are used on certain control units and control modules such as ECM, ABS actuator and electric unit (control unit), etc.
- Lever locking type harness connectors are also used on super multiple junction (SMJ) connectors.
- Always confirm the lever is fully locked in place by moving the lever as far as it will go to ensure full connection.

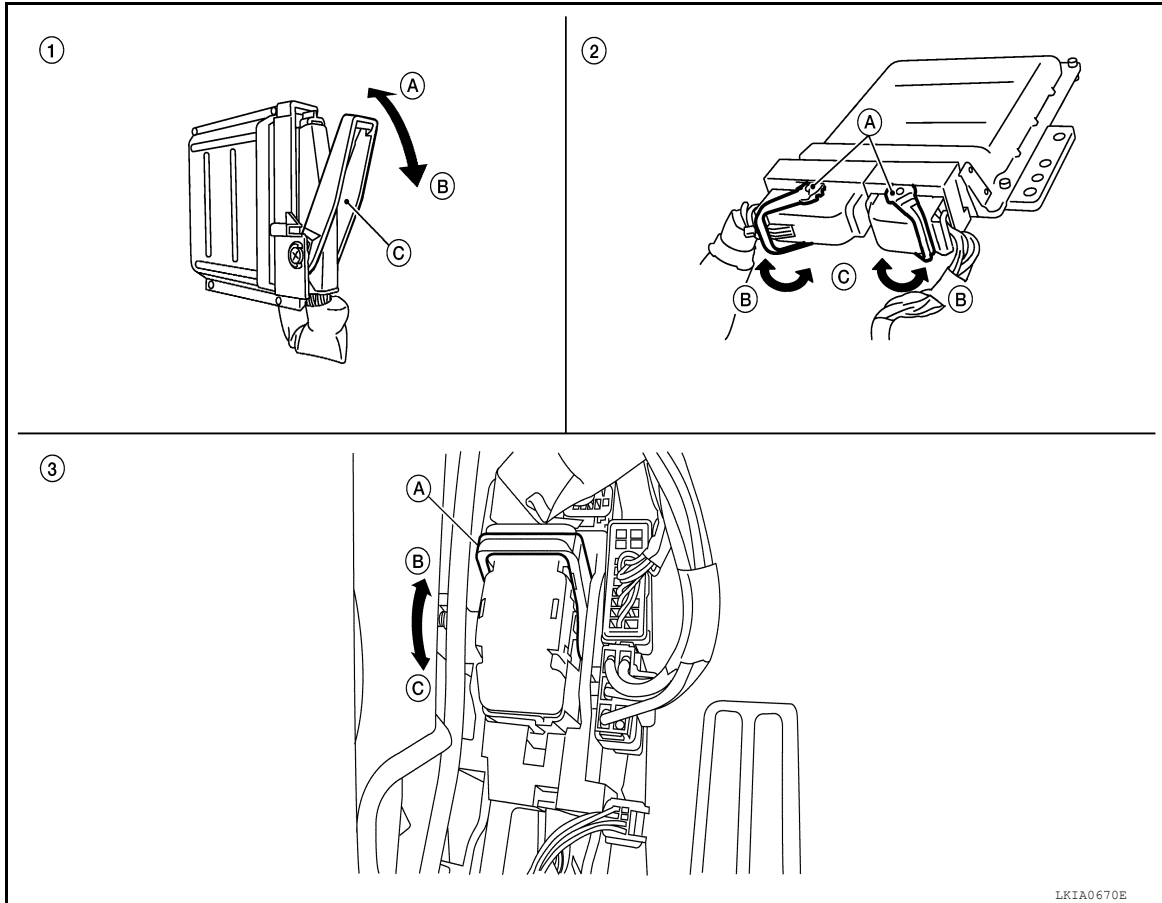
CAUTION:

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- Always confirm the lever is fully released (loosened) before attempting to disconnect or connect these connectors to avoid damage to the connector housing or terminals.



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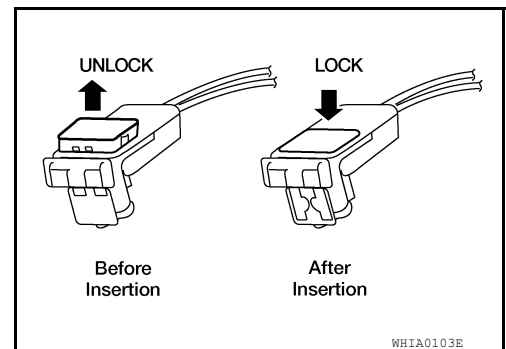
- | | | |
|--|--|---|
| <p>1. Control unit with single lever</p> <p>A. Fasten</p> <p>B. Loosen</p> <p>C. Lever</p> | <p>2. Control unit with dual lever</p> <p>A. Lever</p> <p>B. Fasten</p> <p>C. Loosen</p> | <p>3. SMJ connector</p> <p>A. Lever</p> <p>B. Fasten</p> <p>C. Loosen</p> |
|--|--|---|

HARNESS CONNECTOR (DIRECT-CONNECT SRS COMPONENT TYPE)

- SRS direct-connect type harness connectors are used on certain SRS components such as air bag modules and seat belt pre-tensioners.
- Always pull up to release black locking tab prior to removing connector from SRS components.
- Always push down to lock black locking tab after installing connector to SRS components. When locked, the black locking tab is level with the connector housing.

CAUTION:

- Do not pull the harness or wires when removing connectors from SRS components.



WHIA0103E

STANDARDIZED RELAY

< WIRING DIAGRAM >

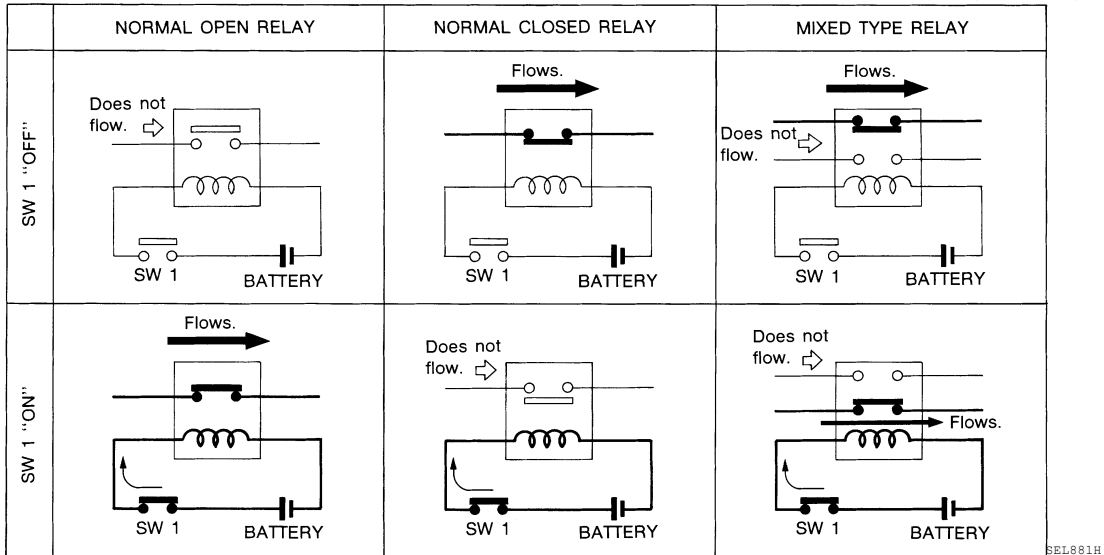
STANDARDIZED RELAY

Description

INFOID:000000008487554

NORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

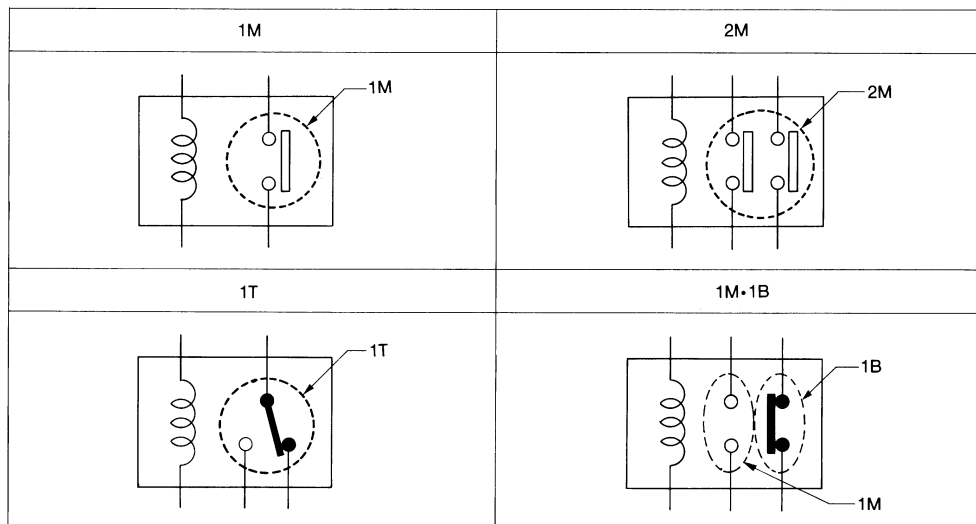
Relays can mainly be divided into three types: normal open, normal closed and mixed type relays.



SEL881H

TYPE OF STANDARDIZED RELAYS

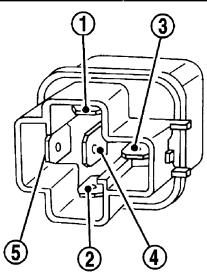
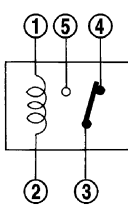
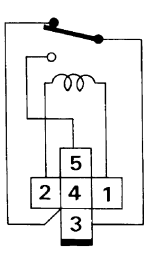
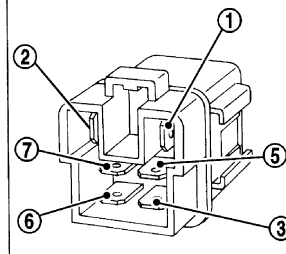
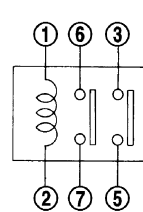
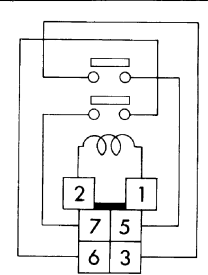
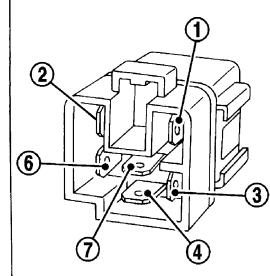
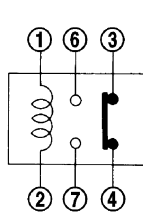
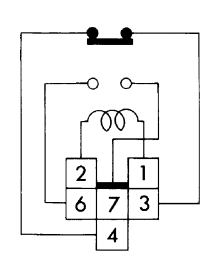
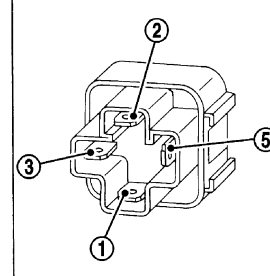
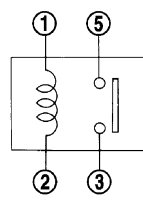
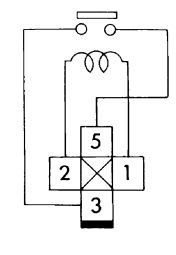
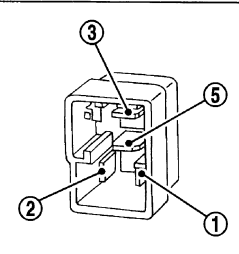
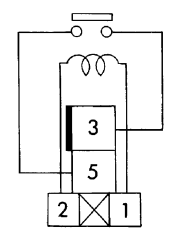
- 1M 1 Make 2M 2 Make
 1T 1 Transfer 1M·1B 1 Make 1 Break



SEL882H

STANDARDIZED RELAY

< WIRING DIAGRAM >

| Type | Outer view | Circuit | Connector symbol and connection | Case color |
|-------|---|---|--|------------|
| 1T |  |  |  | BLACK |
| 2M |  |  |  | BROWN |
| 1M•1B |  |  |  | GRAY |
| 1M |  |  |  | BLUE |
| |  | |  | |

The arrangement of terminal numbers on the actual relays may differ from those shown above.

SEL188W

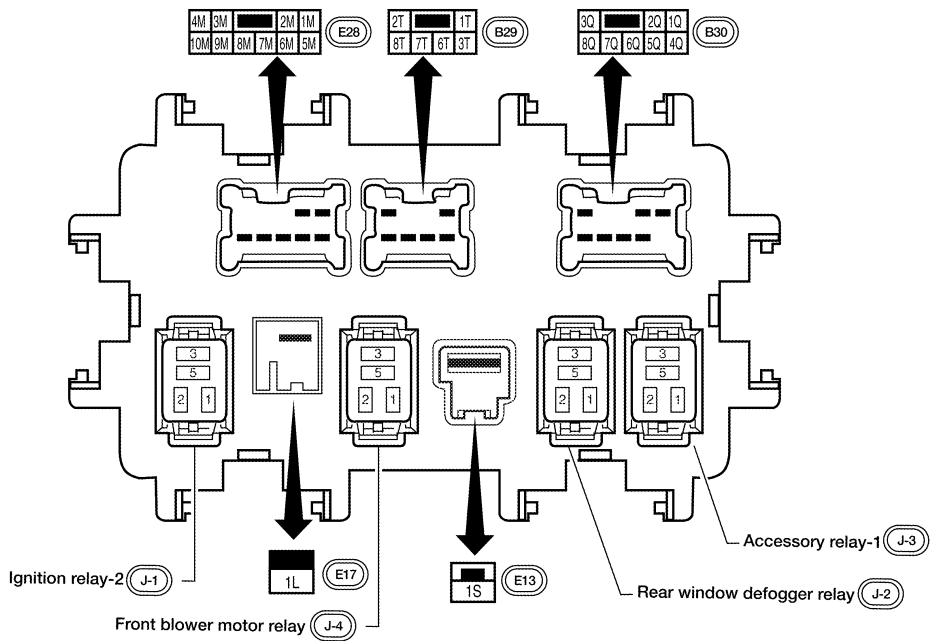
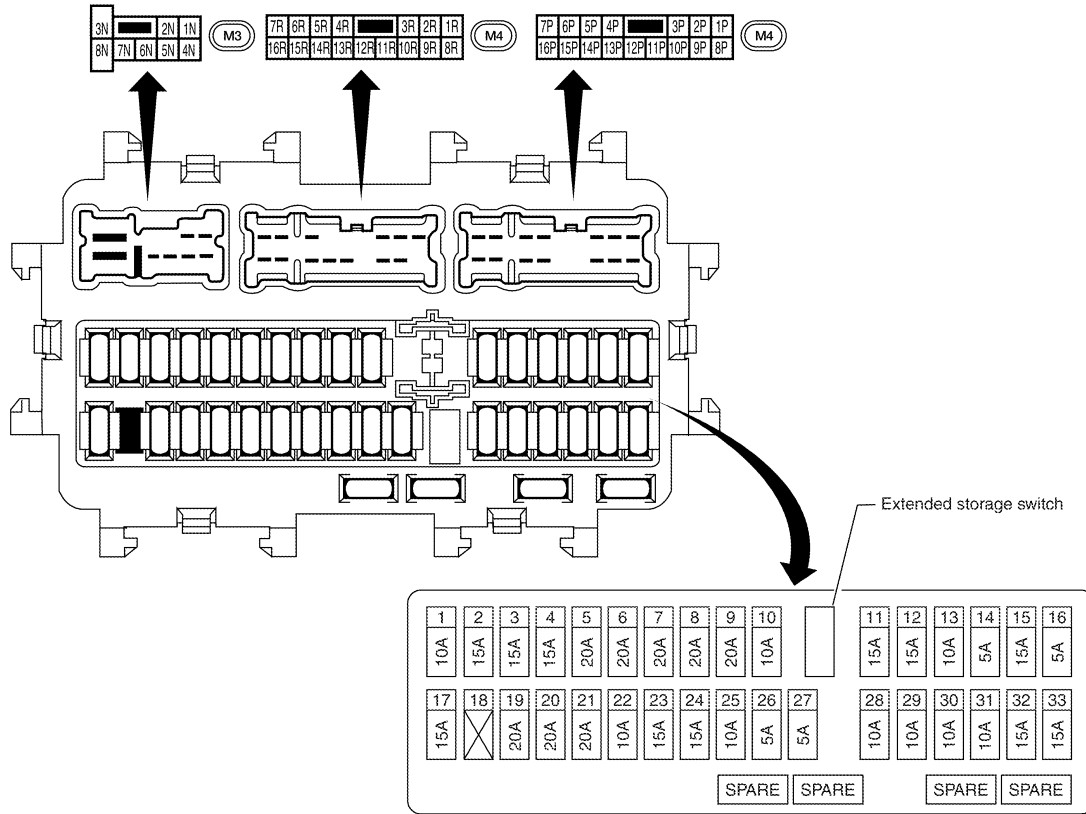
FUSE BLOCK - JUNCTION BOX (J/B)

< WIRING DIAGRAM >

FUSE BLOCK - JUNCTION BOX (J/B)

Terminal Arrangement

INFOID:000000008487555



AAMIA1071GB

FUSE, FUSIBLE LINK AND RELAY BOX

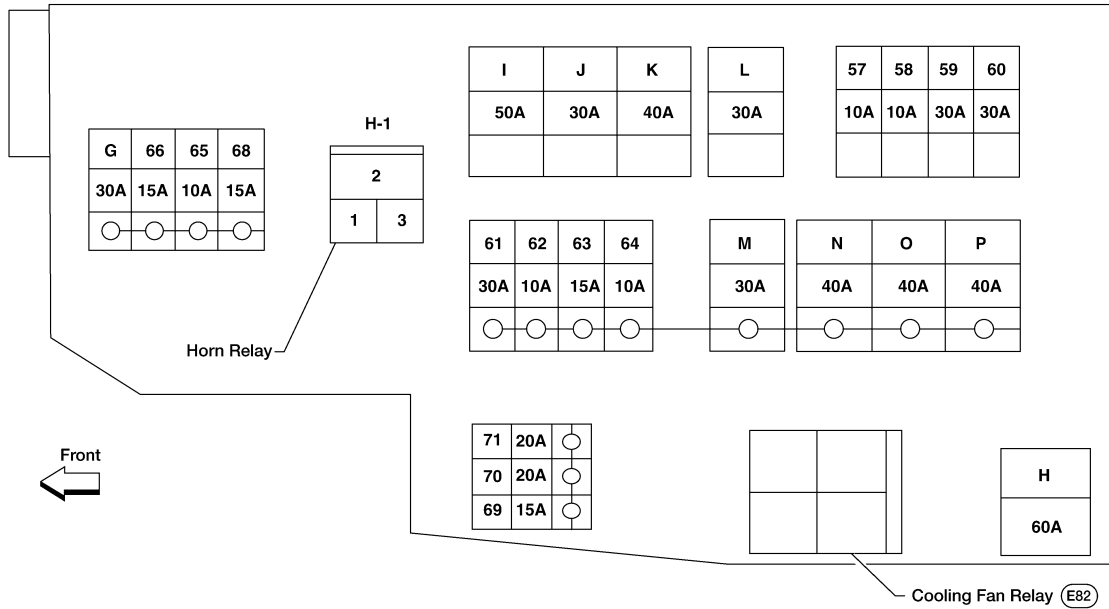
< WIRING DIAGRAM >

FUSE, FUSIBLE LINK AND RELAY BOX

Terminal Arrangement

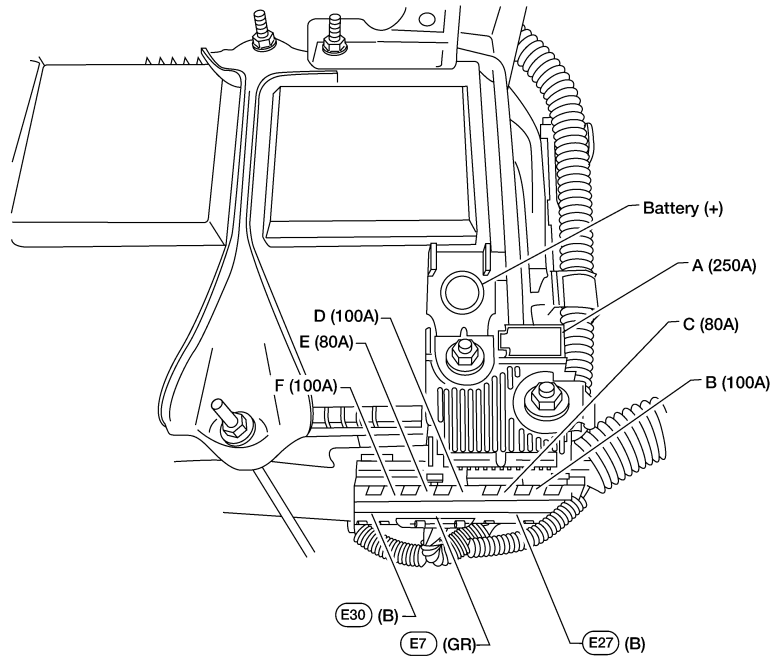
INFOID:000000008487556

FUSE AND FUSIBLE LINK BOX



NO. 61 - 71 : FUSE G - P : FUSIBLE LINK

FUSIBLE LINK BOX (BATTERY)

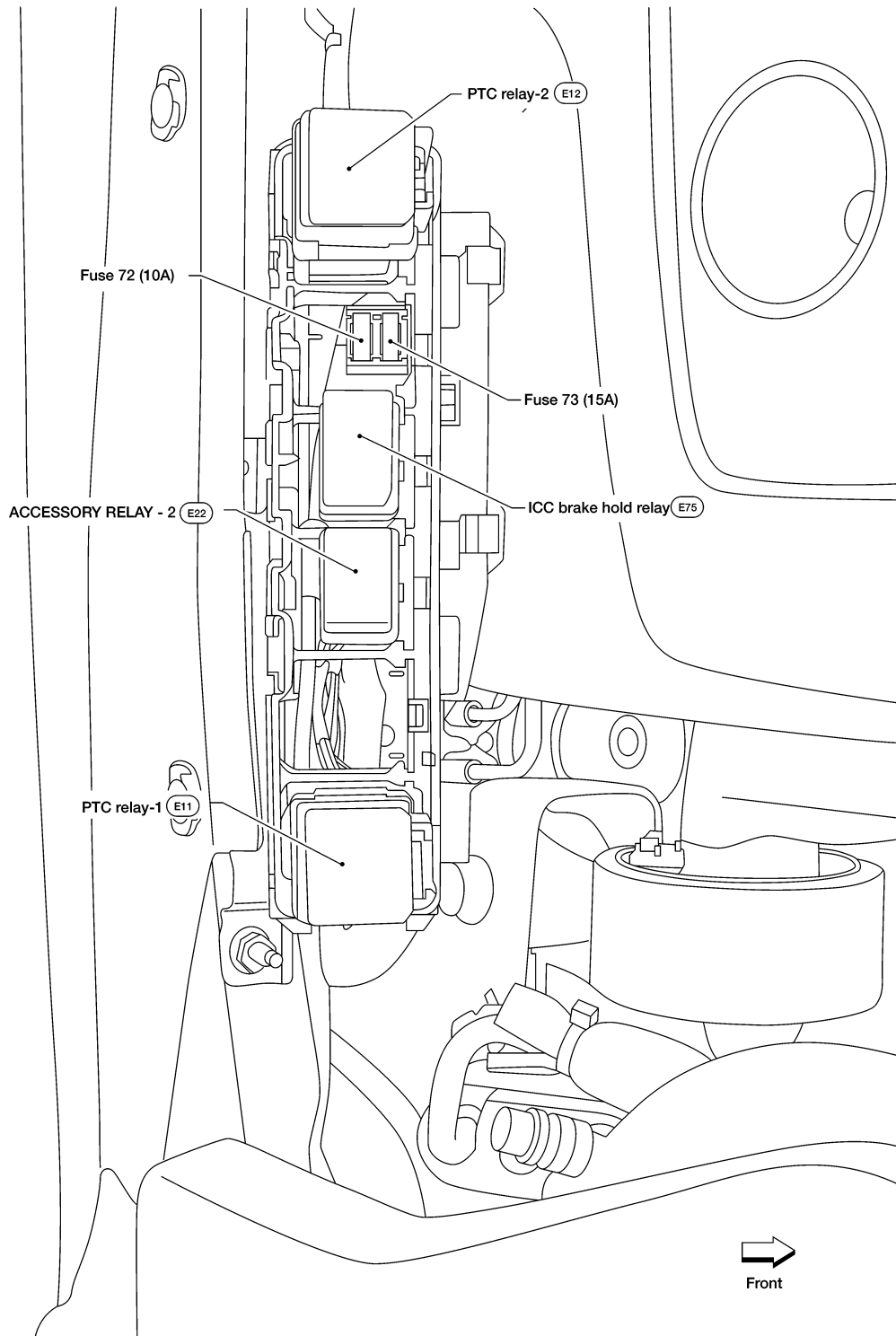


AAMIA1072GB

FUSE, FUSIBLE LINK AND RELAY BOX

< WIRING DIAGRAM >

FUSE AND RELAY BOX

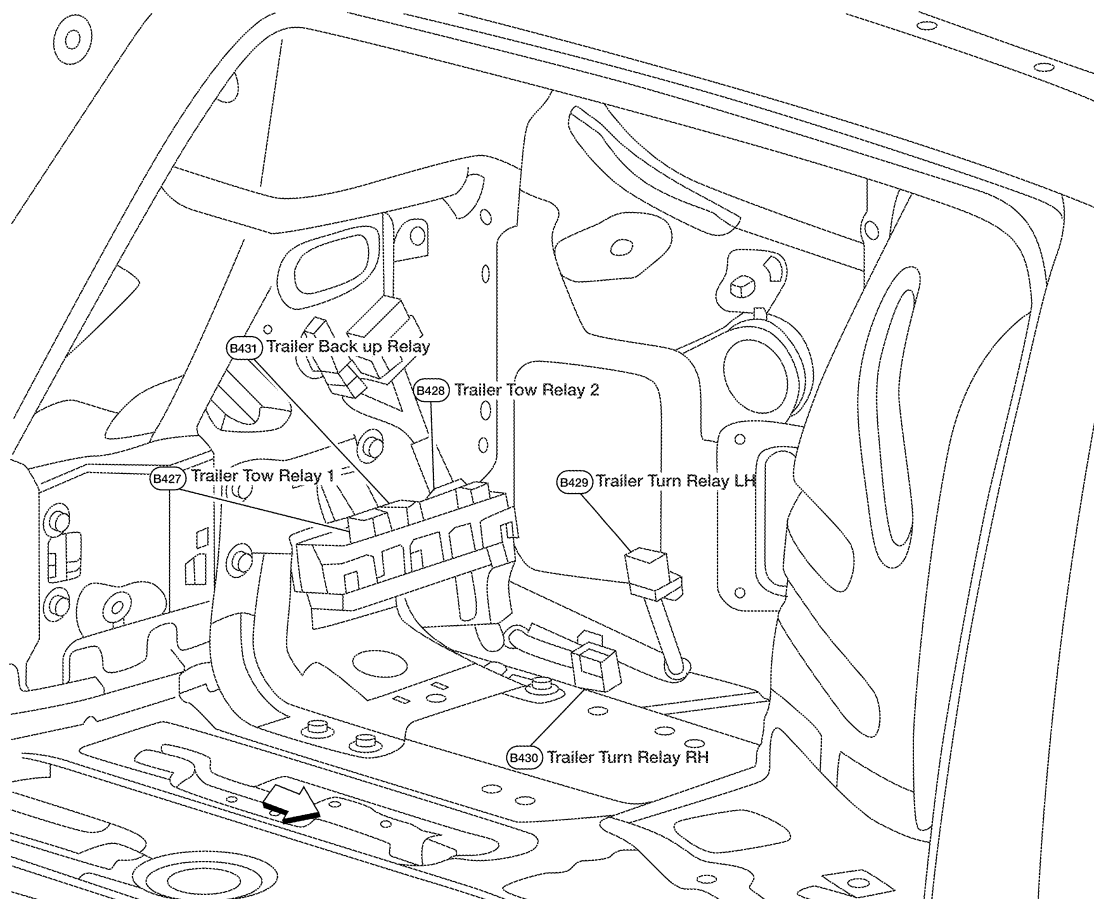


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AAMIA1417GB

FUSE, FUSIBLE LINK AND RELAY BOX

< WIRING DIAGRAM >



AAMIA1074GB

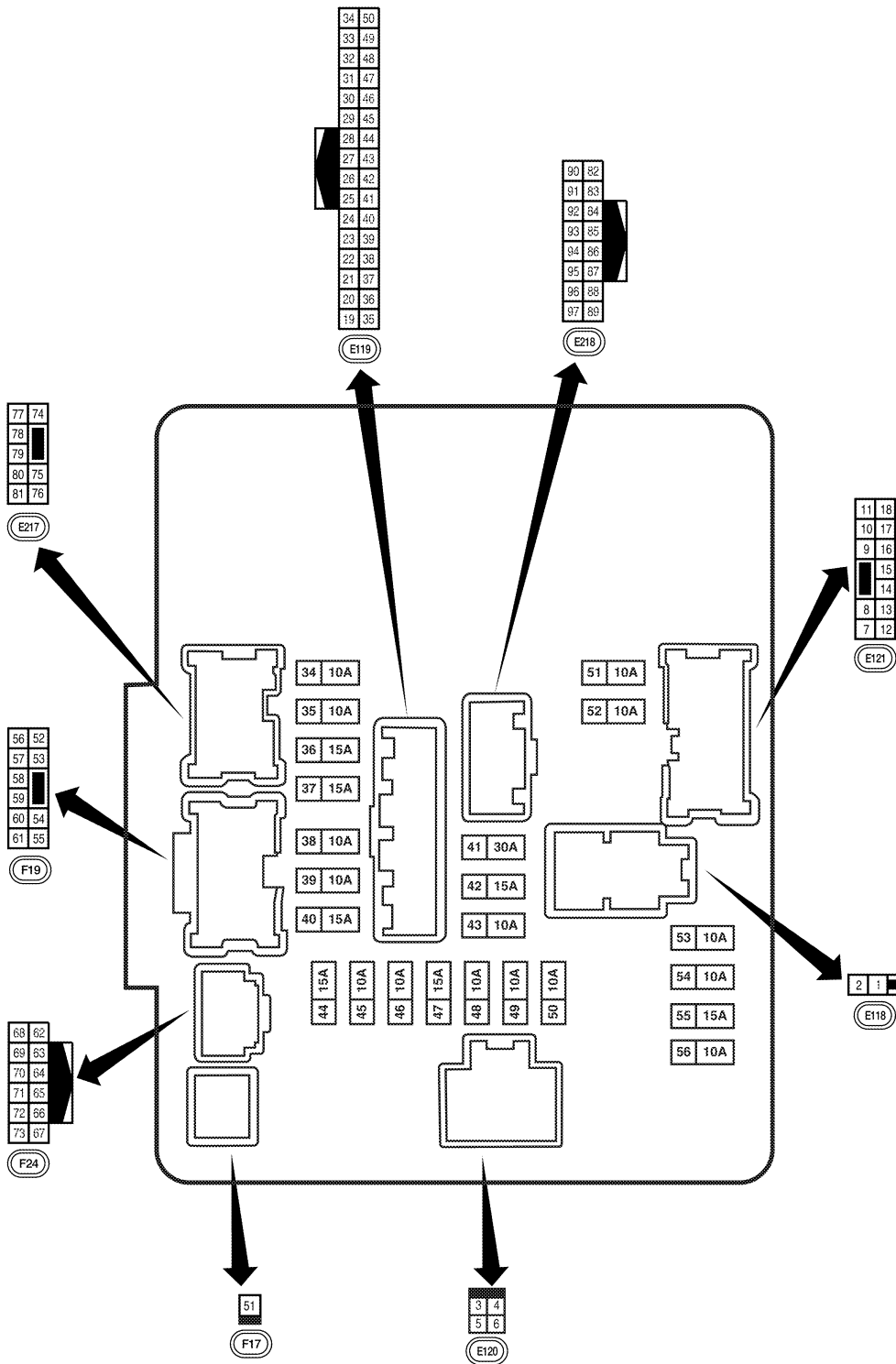
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

< WIRING DIAGRAM >

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

IPDM E/R Terminal Arrangement

INFOID:000000008487557



NOTE:

Numbers preceded by an "F" represent the fuse numbers imprinted on the IPDM E/R. The other numbers represent the fuse numbers as they appear in the wiring diagrams.

AAMIA1075GB

BATTERY

< BASIC INSPECTION >

BASIC INSPECTION

BATTERY

How to Handle Battery

INFOID:000000007914995

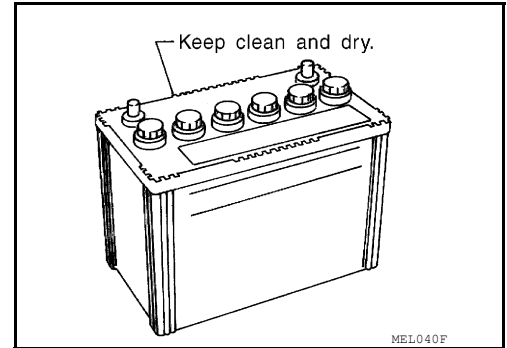
CAUTION:

- If it becomes necessary to start the engine with a booster battery and jumper cables, use a 12-volt booster battery.
- After connecting battery cables, ensure that they are tightly clamped to battery terminals for good contact.
- Never add distilled water through the hole used to check specific gravity.

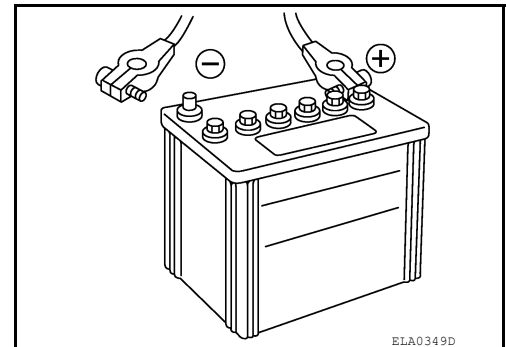
METHODS OF PREVENTING OVER-DISCHARGE

The following precautions must be taken to prevent over-discharging a battery.

- The battery surface (particularly its top) should always be kept clean and dry.
- The terminal connections should be clean and tight.
- At every routine maintenance, check the electrolyte level.
This also applies to batteries designated as "low maintenance" and "maintenance-free".



- When the vehicle is not going to be used over a long period of time, disconnect the battery cable from the negative terminal. (If the vehicle has an extended storage switch, turn it off.)



Work Flow

INFOID:000000007914996

BATTERY DIAGNOSIS WITH EXP-800 NI OR GR8-1200 NI

To diagnose and confirm the condition of the battery, use the following special service tools:

- EXP-800 NI Battery and electrical diagnostic analyzer
- GR8-1200 NI Multitasking battery and electrical diagnostic station

NOTE:

Refer to the applicable instruction manual for proper battery diagnosis procedures.

BATTERY DIAGNOSIS WITHOUT EXP-800 NI OR GR8-1200 NI

Check Electrolyte Level

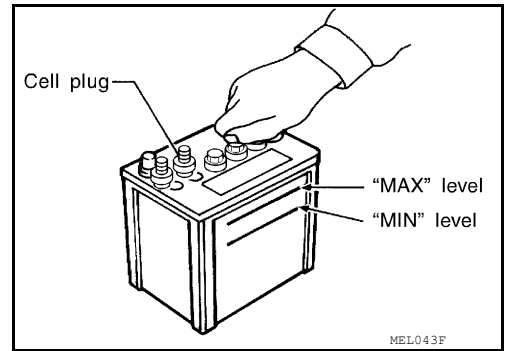
WARNING:

Never allow battery fluid to come in contact with skin, eyes, fabrics, or painted surfaces. After touching a battery, never touch or rub your eyes until you have thoroughly washed your hands. If acid contacts eyes, skin or clothing, immediately flush with water for 15 minutes and seek medical attention. Failure to do this may cause personal injury or damage to clothing or the painted surfaces.

BATTERY

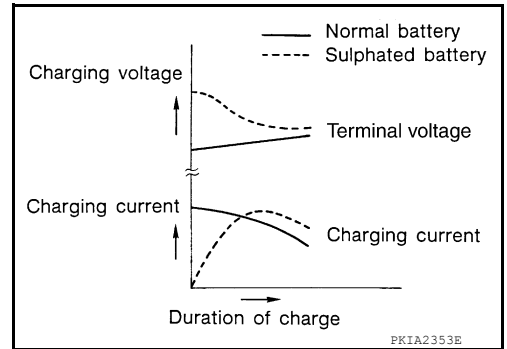
< BASIC INSPECTION >

- Remove the cell plug using a suitable tool.
- Add distilled water up to the MAX level.



SULPHATION

- **A battery will be completely discharged if it is left unattended for a long time and the specific gravity will become less than 1.100. This may result in sulphation on the cell plates.**
- **To determine if a battery has been “sulphated”, note its voltage and current when charging it. As shown in the figure, less current and higher voltage are observed in the initial stage of charging sulphated batteries.**
- **A sulphated battery may sometimes be brought back into service by means of a long, slow charge, 12 hours or more, followed by a battery capacity test.**



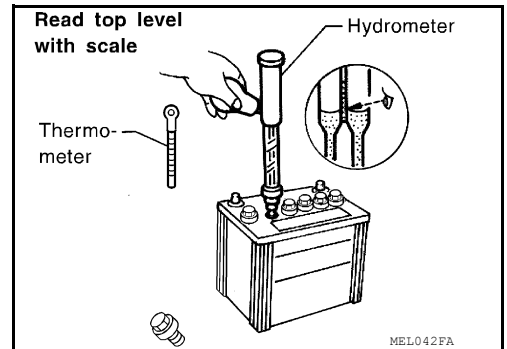
Specific Gravity Check

NOTE:

Check the charge condition of the battery.

Periodically check the specific gravity of the electrolyte. Keep a close check on charge condition to prevent over-discharge.

1. Read hydrometer and thermometer indications at eye level.
2. Use the chart below to correct your hydrometer reading according to electrolyte temperature.



Hydrometer Temperature Correction

| Battery electrolyte temperature [°C (°F)] | Add to specific gravity reading |
|---|---------------------------------|
| 71 (160) | 0.032 |
| 66 (150) | 0.028 |
| 60 (140) | 0.024 |
| 54 (130) | 0.020 |
| 49 (120) | 0.016 |
| 43 (110) | 0.012 |
| 38 (100) | 0.008 |
| 32 (90) | 0.004 |
| 27 (80) | 0 |
| 21 (70) | -0.004 |
| 16 (60) | -0.008 |
| 10 (50) | -0.012 |

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BATTERY

< BASIC INSPECTION >

| Battery electrolyte temperature [°C (°F)] | Add to specific gravity reading |
|---|---------------------------------|
| 4 (40) | -0.016 |
| -1 (30) | -0.020 |
| -7 (20) | -0.024 |
| -12 (10) | -0.028 |
| -18 (0) | -0.032 |

| Corrected specific gravity | Approximate charge condition |
|----------------------------|------------------------------|
| 1.260 - 1.280 | Fully charged |
| 1.230 - 1.250 | 3/4 charged |
| 1.200 - 1.220 | 1/2 charged |
| 1.170 - 1.190 | 1/4 charged |
| 1.140 - 1.160 | Almost discharged |
| 1.110 - 1.130 | Completely discharged |

Charging The Battery

CAUTION:

- **Never “quick charge” a fully discharged battery.**
- **Keep the battery away from open flame while it is being charged.**
- **When connecting the charger, connect the leads first, then turn on the charger. Never turn on the charger first, as this may cause a spark.**
- **If battery electrolyte temperature rises above 55 °C (131 °F), stop charging. Always charge battery at a temperature below 55 °C (131 °F).**

Charging Rates (Standard Charge)

| Approximate charge condition | Charge current (A) | Charge time (h) |
|------------------------------|--------------------|-----------------|
| Fully charged | 5 | 3 |
| 3/4 charged | 10 | 2 |
| 1/2 charged | | 3.5 |
| 1/4 charged | | 5 |
| Almost discharged | | 6 |
| Completely discharged | | 7 |

Charging Rates (Quick Charge)

| Approximate charge condition | Charge current (A) | Charge time (h) |
|------------------------------|--------------------|-----------------|
| Fully charged | — | — |
| 3/4 charged | 20 | 0.5 |
| 1/2 charged | 25 | 1 |
| 1/4 charged | 35 | |
| Almost discharged | 45 | |
| Completely discharged | — | — |

NOTE:

The ammeter reading on your battery charger will automatically decrease as the battery charges. This indicates that the voltage of the battery is increasing normally as the state of charge improves. The charging amps indicated above refer to initial charge rate.

- If, after charging, the specific gravity of any two cells varies more than 0.050, the battery should be replaced.

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement

INFOID:000000008236406

Required Procedure After Battery Disconnection

| System | Item | Reference |
|--|--|--------------------------|
| Engine Control System | Idle Air Volume Learning | EC-160 |
| Brake Control System | Steering Angle Sensor Neutral Position | BRC-59 |
| Power Window Control System | Power Window System Initialization | PWC-35 |
| Roof | Moonroof Memory Reset/Initialization Sunshade Memory Reset/Initialization | RF-24 |
| Automatic Drive Positioner | Automatic Drive Positioner System Initialization | Refer to Owner's Manual. |
| Heater & Air Conditioning Control System | Temperature Setting Trimmer (front) | HAC-78 |
| | Temperature Setting Trimmer (rear) | HAC-79 |
| | Foot Position Setting Trimmer | HAC-78 |
| | Inlet Port Memory Function (FRE) | HAC-79 |
| | Inlet Port Memory Function (REC) | HAC-79 |
| | Exhaust Gas/Outside Odor Detecting Sensor Sensitivity Adjustment Function | HAC-80 |
| | Auto Intake Switch Interlocking Movement Change Function | HAC-80 |
| Audio, Visual & Navigation System | Audio (Radio Preset) | Refer to Owner's Manual. |
| | Navigation System | Refer to Owner's Manual. |

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BATTERY

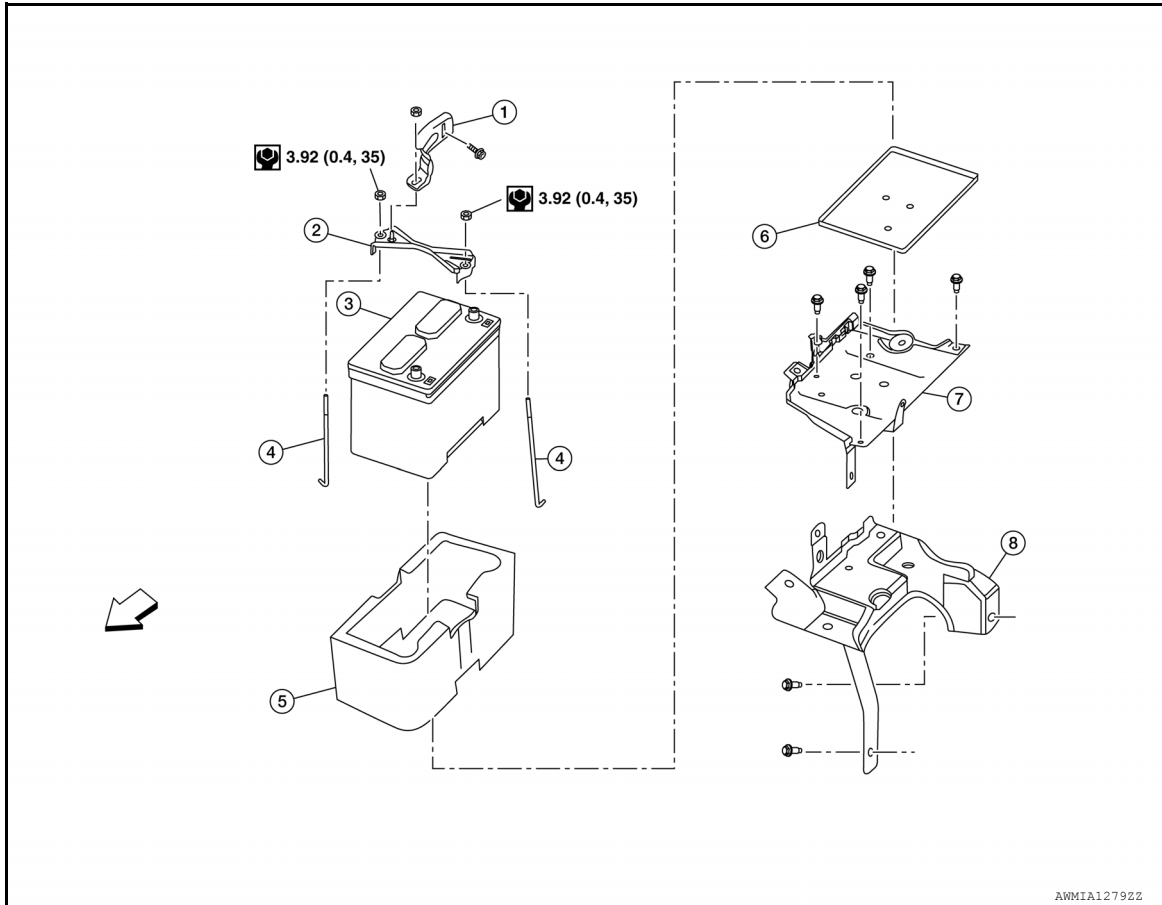
< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

BATTERY

Exploded View

INFOID:000000007914999



- | | | |
|----------------------|-------------------------|-----------------------|
| 1. Upper ECM bracket | 2. Battery frame | 3. Battery |
| 4. Battery rods | 5. Battery cover | 6. Battery tray liner |
| 7. Battery tray | 8. Battery tray support | ← Front |

Removal and Installation

INFOID:000000007915000

REMOVAL

1. Remove cover of battery positive terminal.
2. Loosen battery terminal nuts and disconnect both battery negative and positive terminals.
CAUTION:
When disconnecting, disconnect the battery negative terminal first.
3. Remove battery frame nuts and battery frame and battery rods.
4. Remove battery cover.
5. Remove battery.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

When connecting, connect the battery positive terminal first.

Reset electronic systems as necessary. Refer to [PG-91, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#).

BATTERY TRAY

< REMOVAL AND INSTALLATION >

BATTERY TRAY

Removal and Installation

INFOID:000000008188131

REMOVAL

1. Remove battery and battery tray liner. Refer to [PG-92, "Removal and Installation"](#).
2. Remove air cleaner assembly. Refer to [EM-24, "Removal and Installation"](#).
3. Disconnect harness connector and then remove ECM.
4. Disconnect the harness connector from the transmission control module (TCM). Refer to [TM-169, "Removal and Installation"](#).
5. Remove the ECM bracket.
6. Remove the battery tray bolts and battery tray.
7. Remove the battery tray support bolts and battery tray support.

INSTALLATION

Installation is in the reverse order of removal.

Reset electronic systems as necessary. Refer to [PG-91, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#).

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SERVICE DATA AND SPECIFICATIONS (SDS)

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SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Battery

INFOID:000000007915003

| | | |
|---|--------|-------|
| Type | | GR35 |
| 20 hour rate capacity | [V-Ah] | 12-60 |
| Cold cranking current (For reference value) | [A] | 550 |