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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:000000013476183

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. 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, it is recommended that all maintenance and repair be performed by an authorized NISSAN/INFINITI dealer.
- Improper repair, 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 Air Bag Diagnosis Sensor Unit or other Air Bag 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 or batteries, and wait at least three minutes before performing any service.

Precautions For Removing Battery Terminal

INFOID:000000013521711

- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 2 minutes.

NOTE:

ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

- For vehicles with the two batteries, be sure to connect both batteries before turning ON the ignition switch.

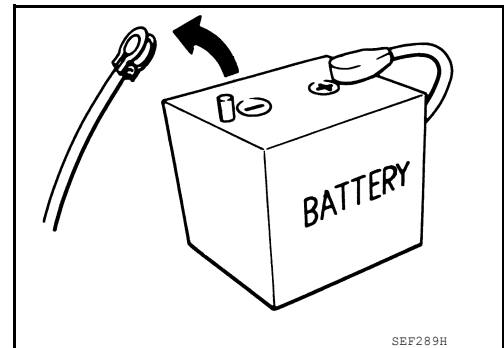
NOTE:

If the ignition switch is turned ON with any one of the terminals of the two batteries disconnected, then DTC may be detected.

- After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.

NOTE:

The removal of 12V battery may cause a DTC detection error.



Precaution for Power Generation Voltage Variable Control System

INFOID:000000013936737

CAUTION:

For this model, the battery current sensor that is installed to the battery cable at the negative terminal measures the charging/discharging current of the battery, and performs various controls. If the electrical component or the ground wire is connected directly to the battery terminal, the current other than that being measured with the battery current sensor is charging to or discharging from the battery. This condition causes the malfunction of the control, and then the battery discharge may occur. Do not connect the electrical component or the ground wire directly to the battery terminal.

PREPARATION

< PREPARATION >


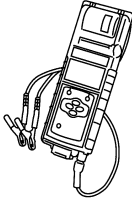
PREPARATION

PREPARATION

Special Service Tool

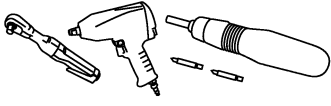
INFOID:000000012546671

The actual shape of the tools may differ from those illustrated here.

Tool number (TechMate No.) Tool name	Description
<p>— (—) Model GR8-1200 NI Multitasking battery and electrical diagnostic station</p>  <p style="text-align: right; font-size: small;">AWIIA12392Z</p>	<p>Tests batteries, starting and charging systems and charges batteries. For operating instructions, refer to diagnostic station instruction manual.</p>
<p>— (—) Model EXP-800 NI Battery and electrical diagnostic analyzer</p>  <p style="text-align: right; font-size: small;">JSMIA08062Z</p>	<p>Tests batteries and charging systems. For operating instructions, refer to diagnostic analyzer instruction manual.</p>

Commercial Service Tool

INFOID:000000012546672

Tool name	Description
<p>Power tool</p>  <p style="text-align: right; font-size: small;">PIIB1407E</p>	<p>Loosening nuts, screws and bolts</p>

ELECTRICAL UNITS LOCATION

< SYSTEM DESCRIPTION >

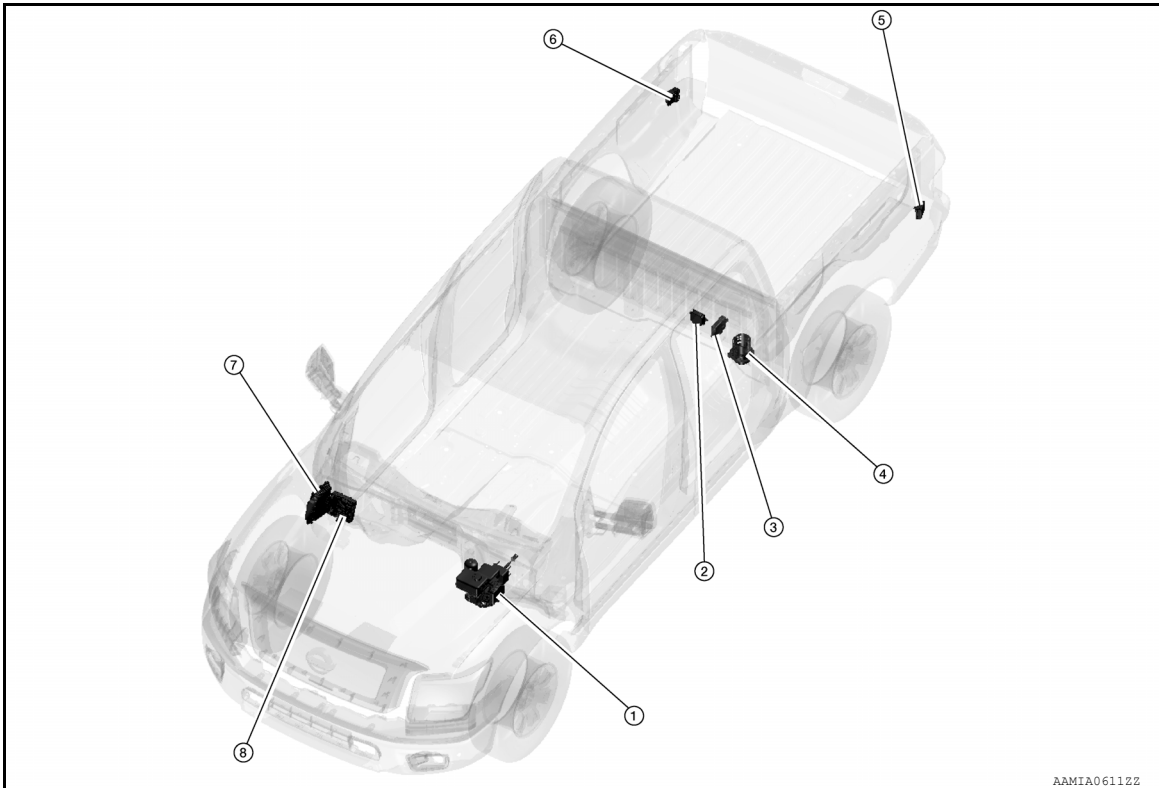
SYSTEM DESCRIPTION

ELECTRICAL UNITS LOCATION

Electrical Units Location

INFOID:0000000013037283

Vehicle Overhead View



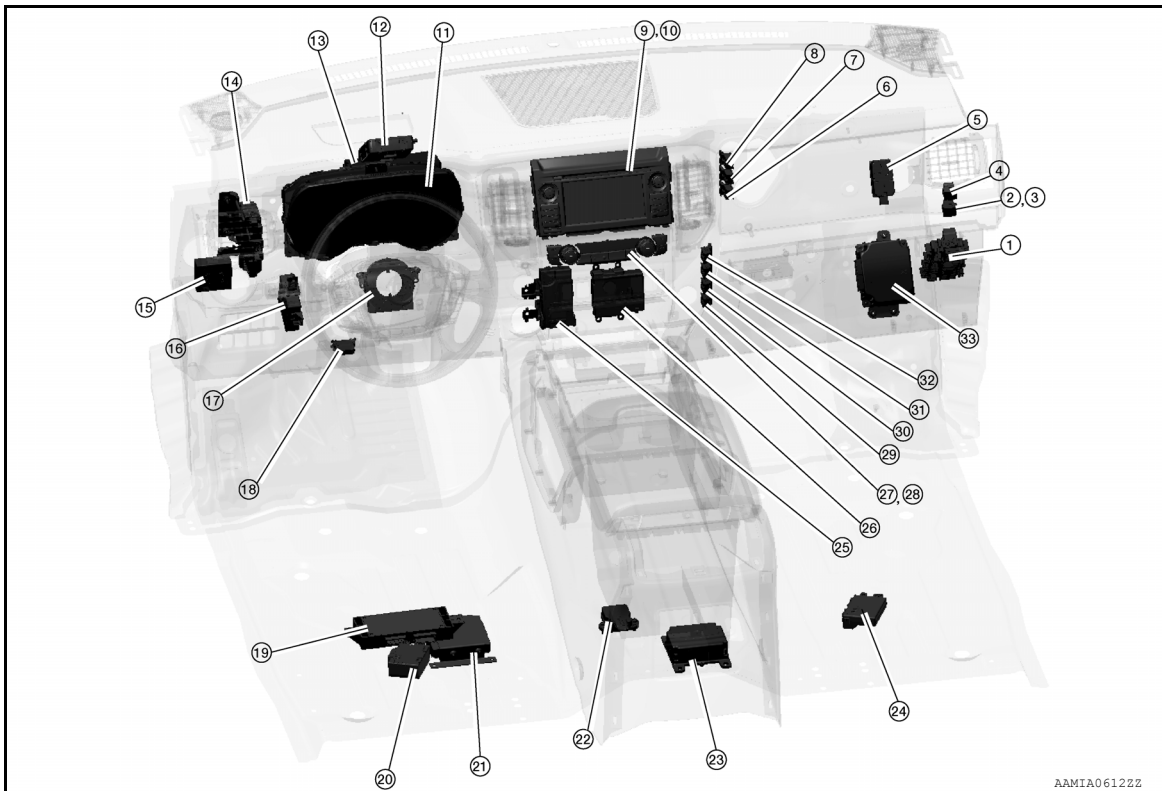
- | | | |
|--|---|--|
| 1. ABS actuator and electric unit (control unit) | 2. Differential lock control unit (with electronic locking rear differential) | 3. DEF control module (with Cummins 5.0L) |
| 4. DEF supply pump assembly (with Cummins 5.0L) | 5. Side radar LH (with driver assistance system) | 6. Side radar RH (with driver assistance system) |
| 7. ECM | 8. IPDM E/R | |

Passenger Compartment View

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ELECTRICAL UNITS LOCATION

< SYSTEM DESCRIPTION >



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|--|--|--|
| 1. Fuse block (J/B) | 2. Heated seat relay (with heated seats) | 3. Climate controlled seat relay (with climate controlled seat) |
| 4. Back-up lamp relay | 5. Remote keyless entry receiver | 6. Rear power slide glass open relay (with power rear glass) |
| 7. Rear power slide glass close relay (with power rear glass) | 8. Console power socket relay (with console power socket) | 9. AV control unit (with display) |
| 10. Audio unit (without display) | 11. Combination meter | 12. TCU (with telematics system) |
| 13. BCM | 14. Transfer control unit (with 4WD system) | 15. Low tire pressure warning control unit |
| 16. Sonar control unit (with sonar system) | 17. Steering angle sensor | 18. Data link connector |
| 19. Driver seat control unit (with automatic drive positioner) | 20. Climate controlled seat control unit LH (with climate controlled seat) | 21. Around view monitor control unit (with around view monitor) |
| 22. Yaw rate/side/decel G sensor | 23. Air bag diagnosis sensor unit | 24. Climate controlled seat control unit RH (with climate controlled seat) |
| 25. CAN gateway (with CAN gateway system) | 26. PTC heater control (with manual A/C) (with Cummins 5.0L) | 27. A/C auto amp. (with auto A/C) |
| 28. Front air control (with manual A/C) | 29. Heated steering relay (with heated steering wheel) | 30. Accessory relay-2 |
| 31. Trailer tow relay 1 (with trailer tow) | 32. Cargo lamp relay | 33. TCM (transmission control module) |

COMPONENT PARTS

< SYSTEM DESCRIPTION >

COMPONENT PARTS

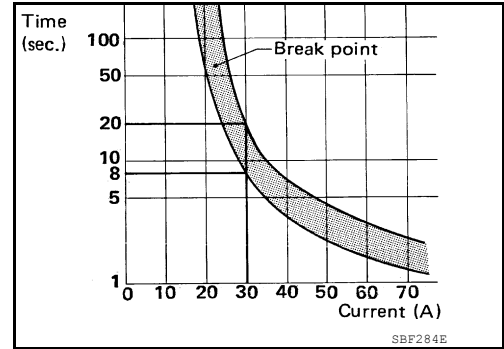
Circuit Breaker (Built Into BCM)

INFOID:000000012546674

For example, when current is 30A, the circuit is broken within 8 to 20 seconds.

This circuit breaker is used for the following systems:

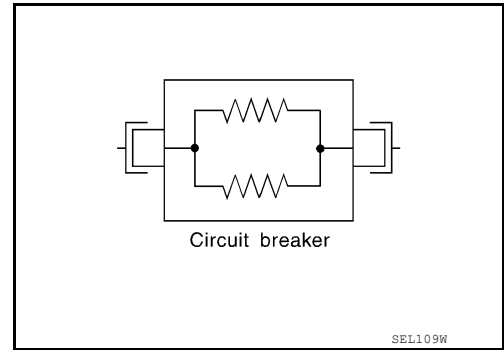
- Power windows



Circuit Breaker (External to BCM)

INFOID:000000012546675

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 reduce the circuit current. This reduced current flow will cause the element to cool lowering the resistance accordingly. Once resistance falls to a specified level normal circuit current flow is allowed to resume.



Harness Connector

INFOID:000000012546676

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.

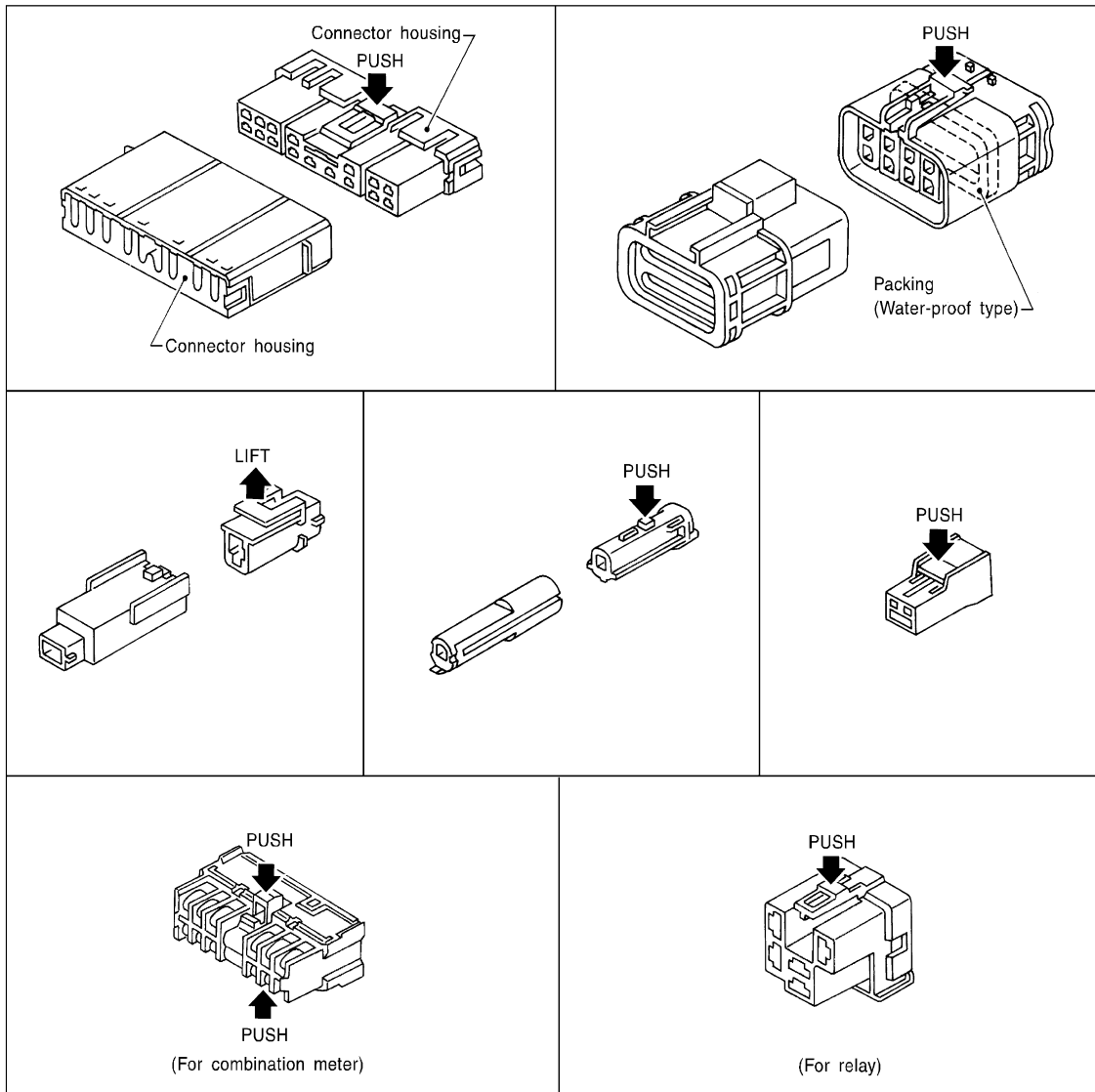
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COMPONENT PARTS

< SYSTEM DESCRIPTION >

[Example]



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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.

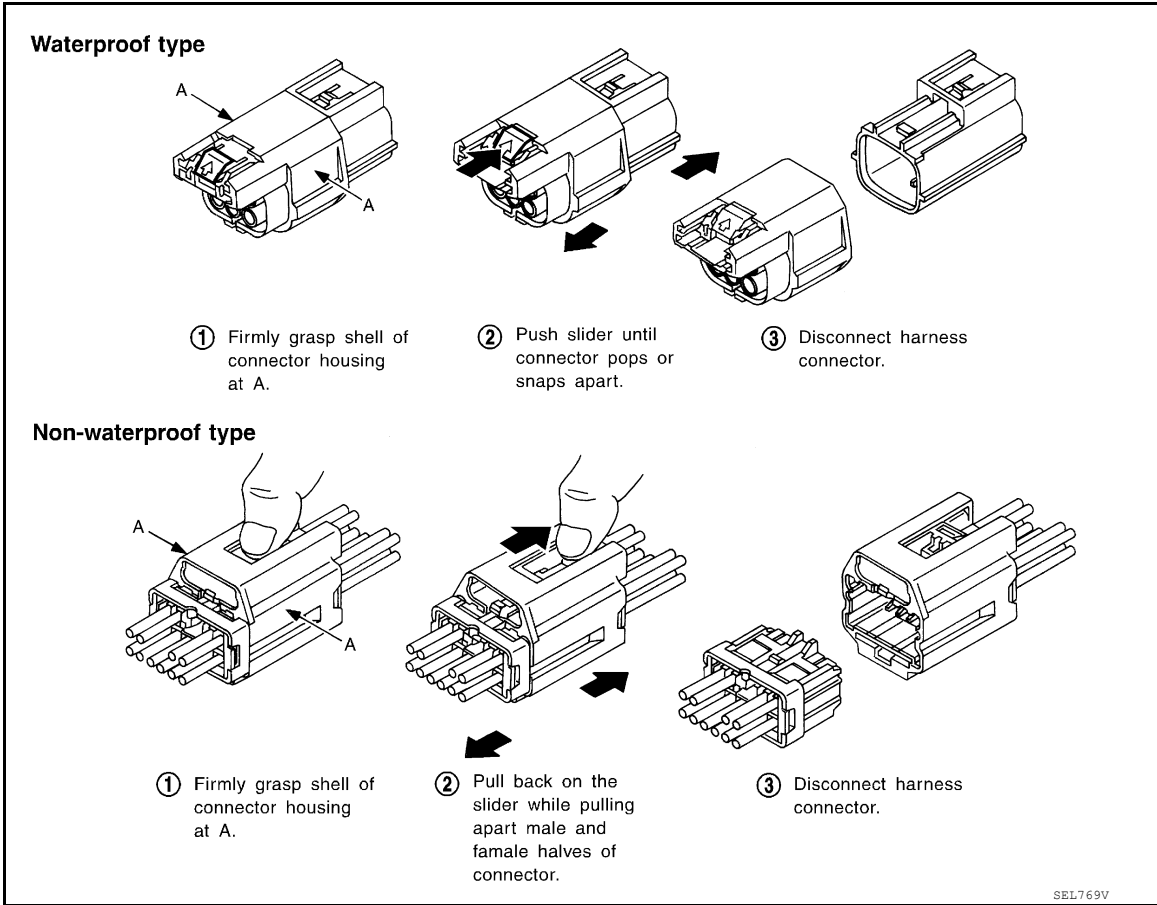
CAUTION:

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

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:

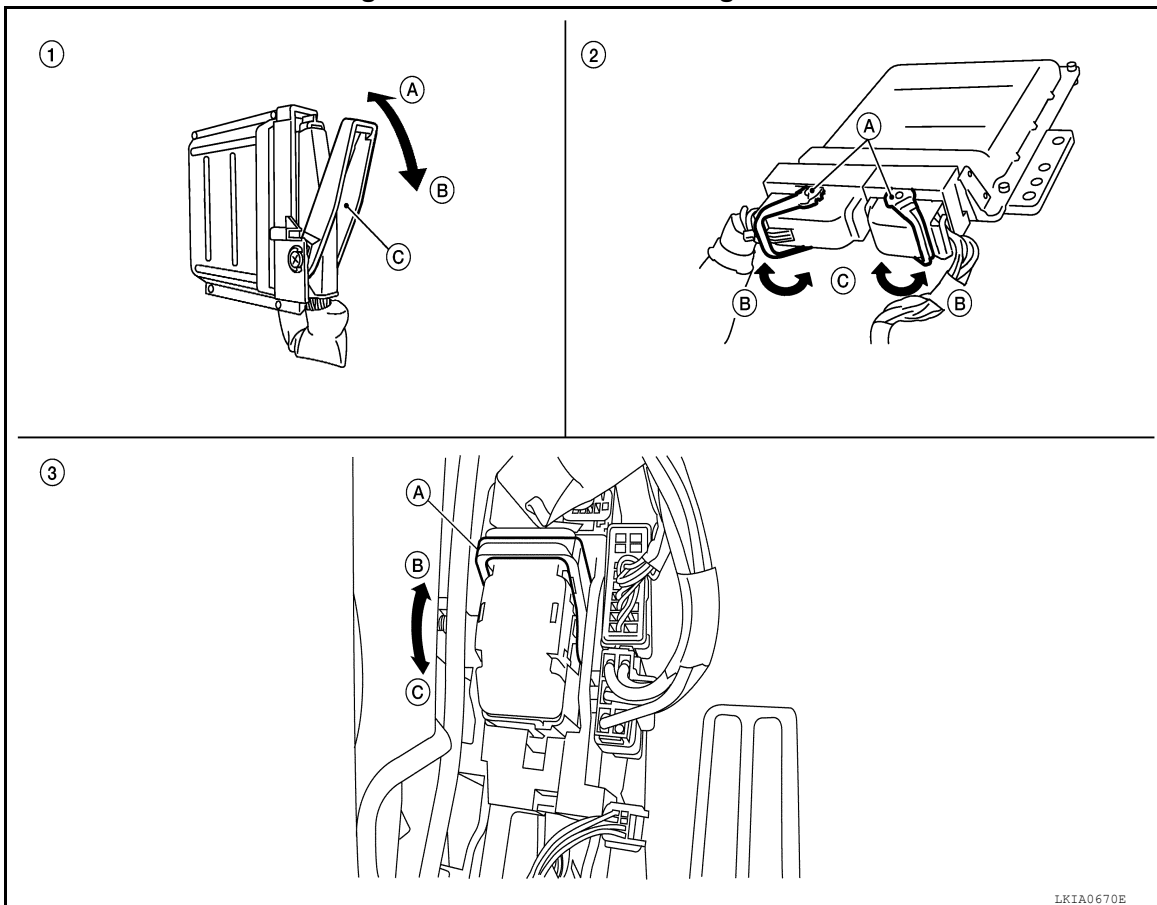
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COMPONENT PARTS

< 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.



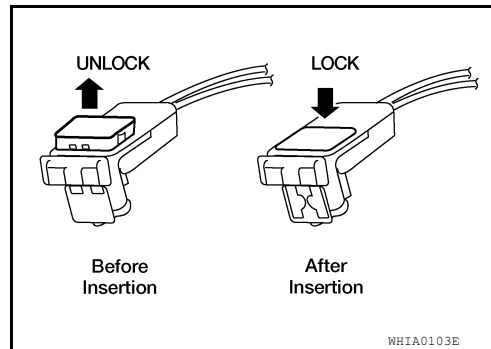
- | | | |
|-----------------------------------|---------------------------------|------------------|
| 1. Control unit with single lever | 2. Control unit with dual lever | 3. SMJ connector |
| A. Fasten | A. Lever | A. Lever |
| B. Loosen | B. Fasten | B. Fasten |
| C. Lever | C. Loosen | C. Loosen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

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.



Standardized Relay

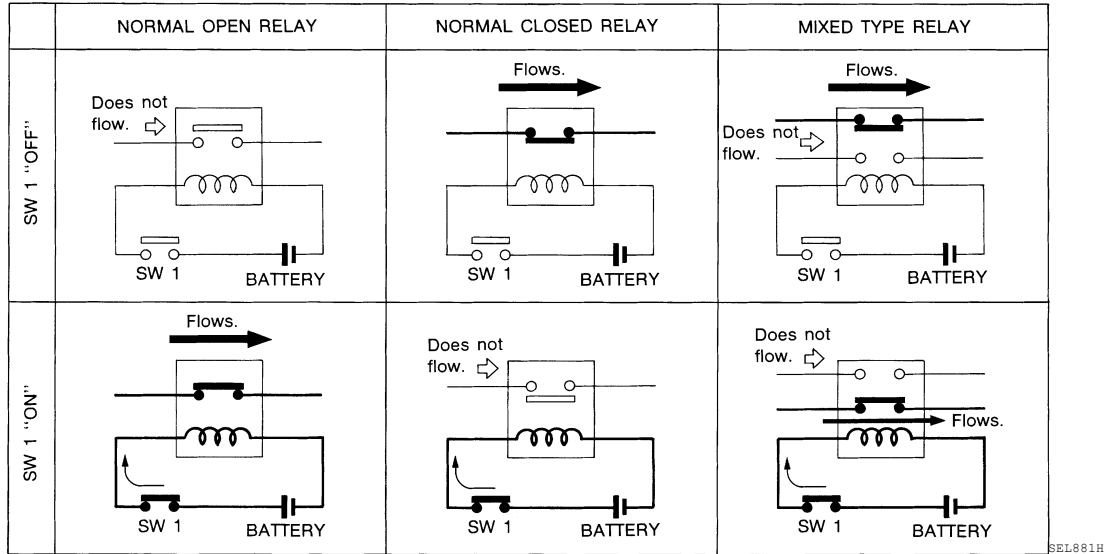
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NORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

COMPONENT PARTS

< SYSTEM DESCRIPTION >

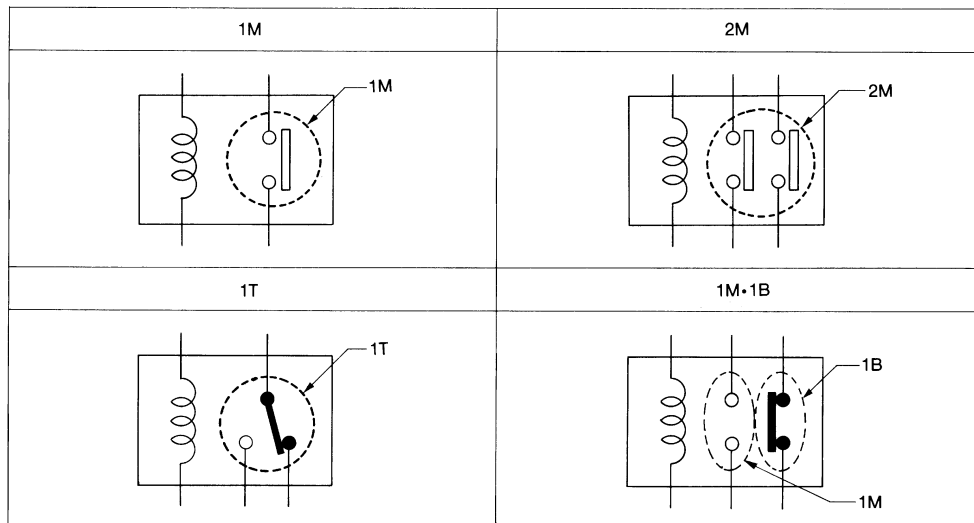
Relays can mainly be divided into three types: normal open, normal closed and mixed type relays.



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TYPE OF STANDARDIZED RELAYS

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

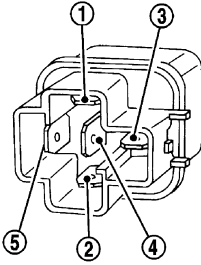
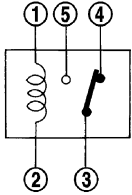
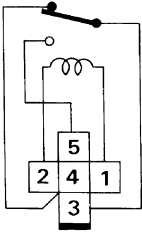
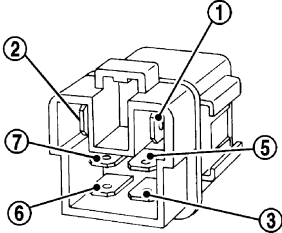
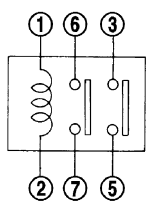
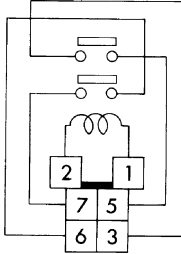
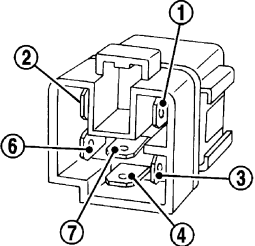
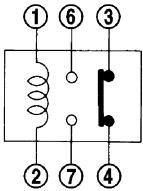
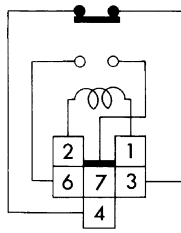
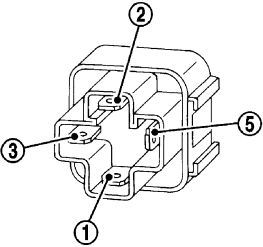
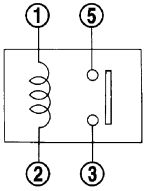
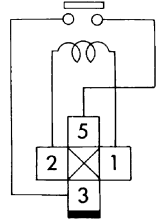
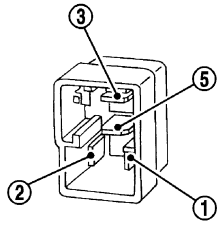
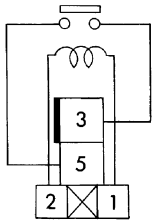


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COMPONENT PARTS

< 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

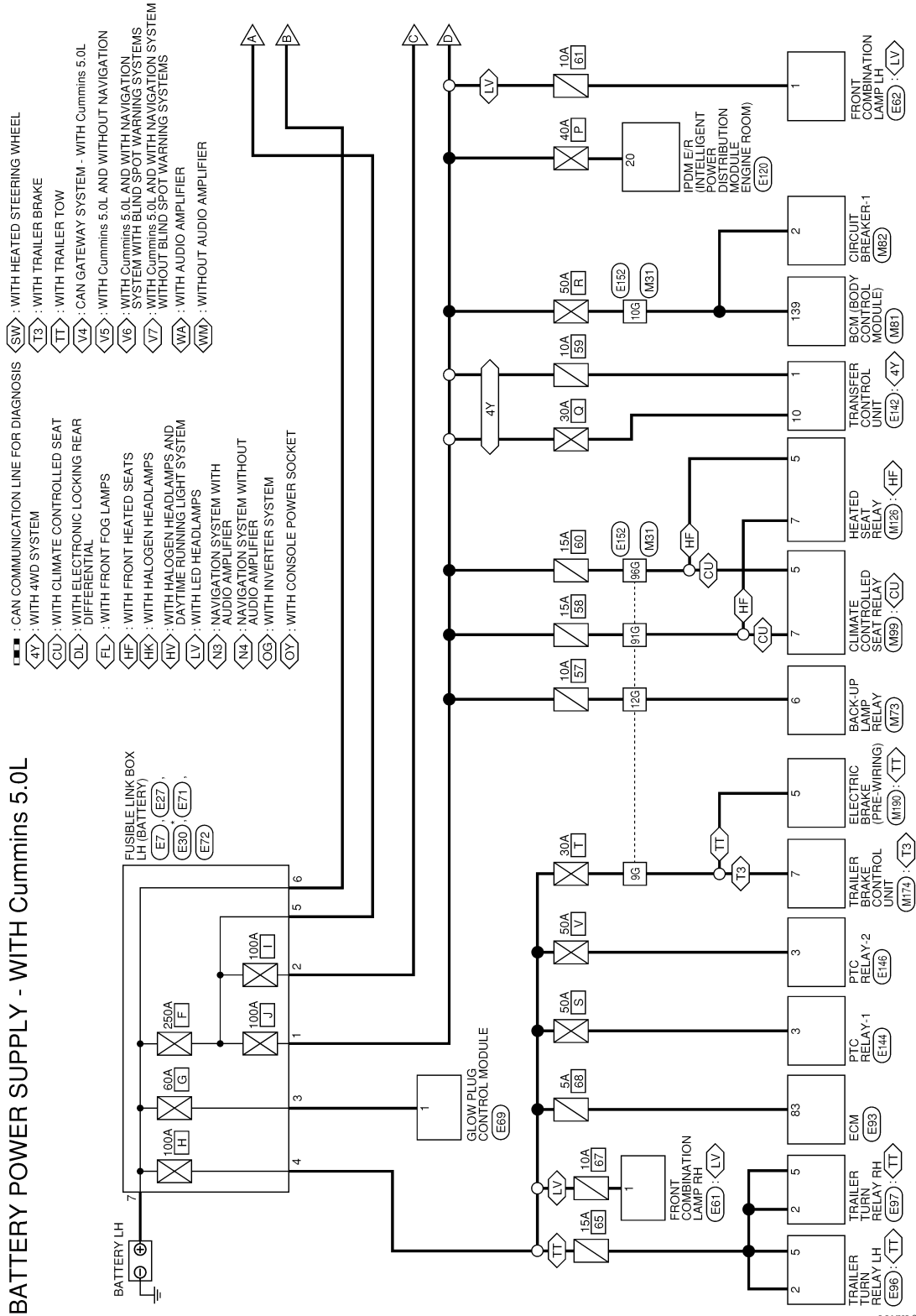
< WIRING DIAGRAM >

WIRING DIAGRAM

POWER SUPPLY ROUTING CIRCUIT

Wiring Diagram - BATTERY POWER SUPPLY - WITH Cummins 5.0L -

INFOID:000000012918312



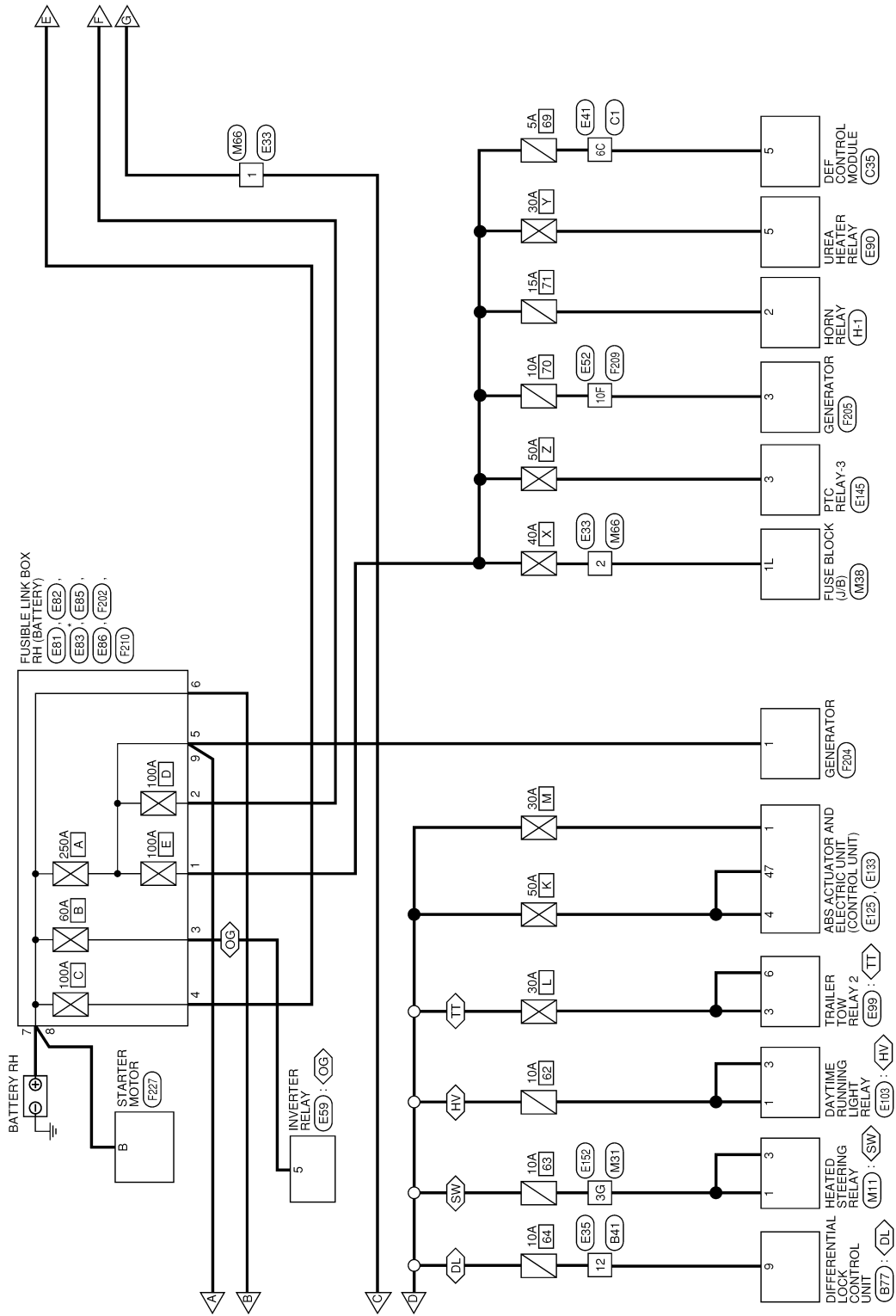
* (E30) : IS AN INTEGRAL PART OF FUSIBLE LINK BOX LH (BATTERY) ASSEMBLY.

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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

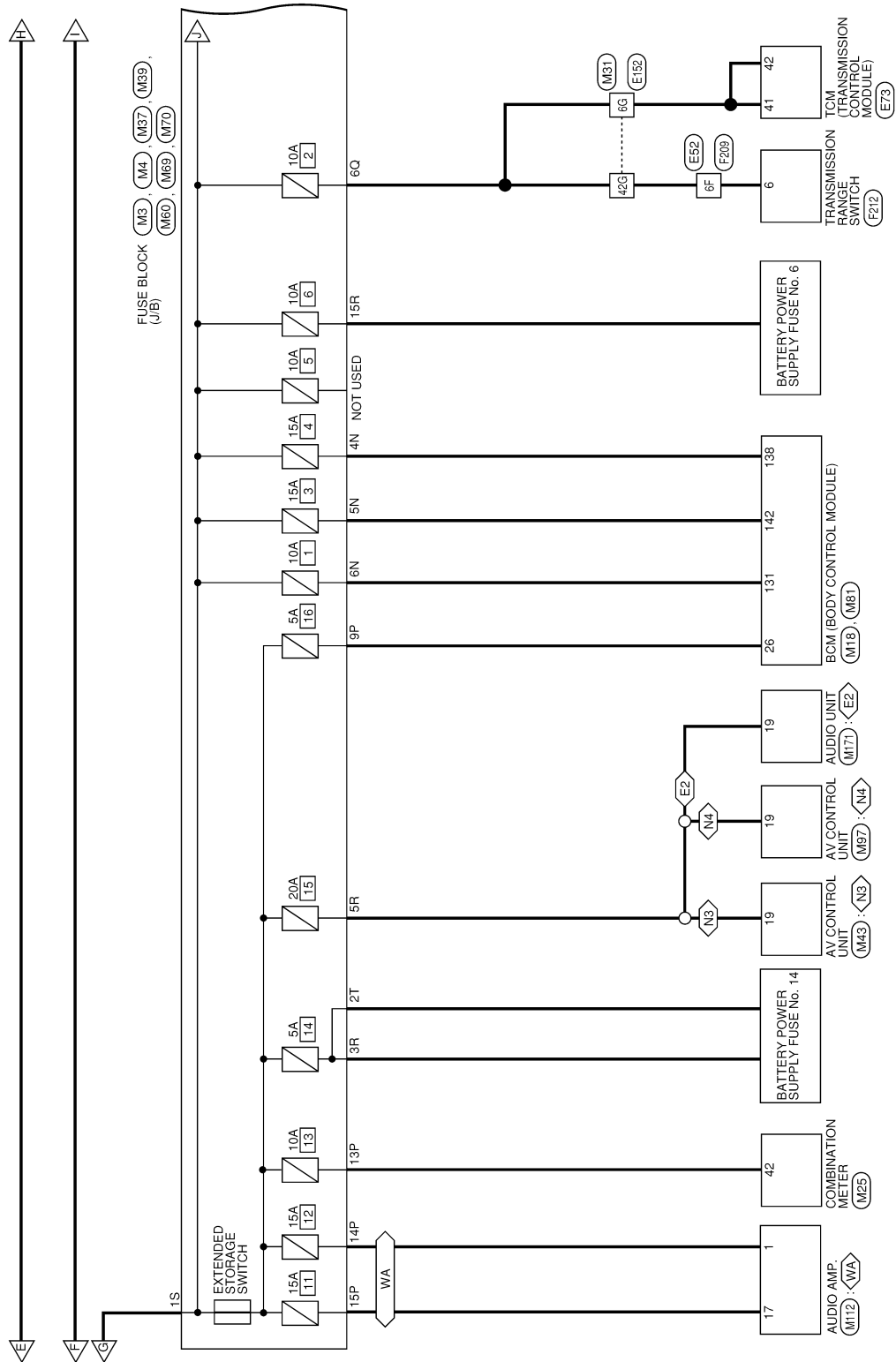


* (E83) : IS AN INTEGRAL PART OF FUSIBLE LINK BOX RH (BATTERY) ASSEMBLY.

AAMWA2176GB

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

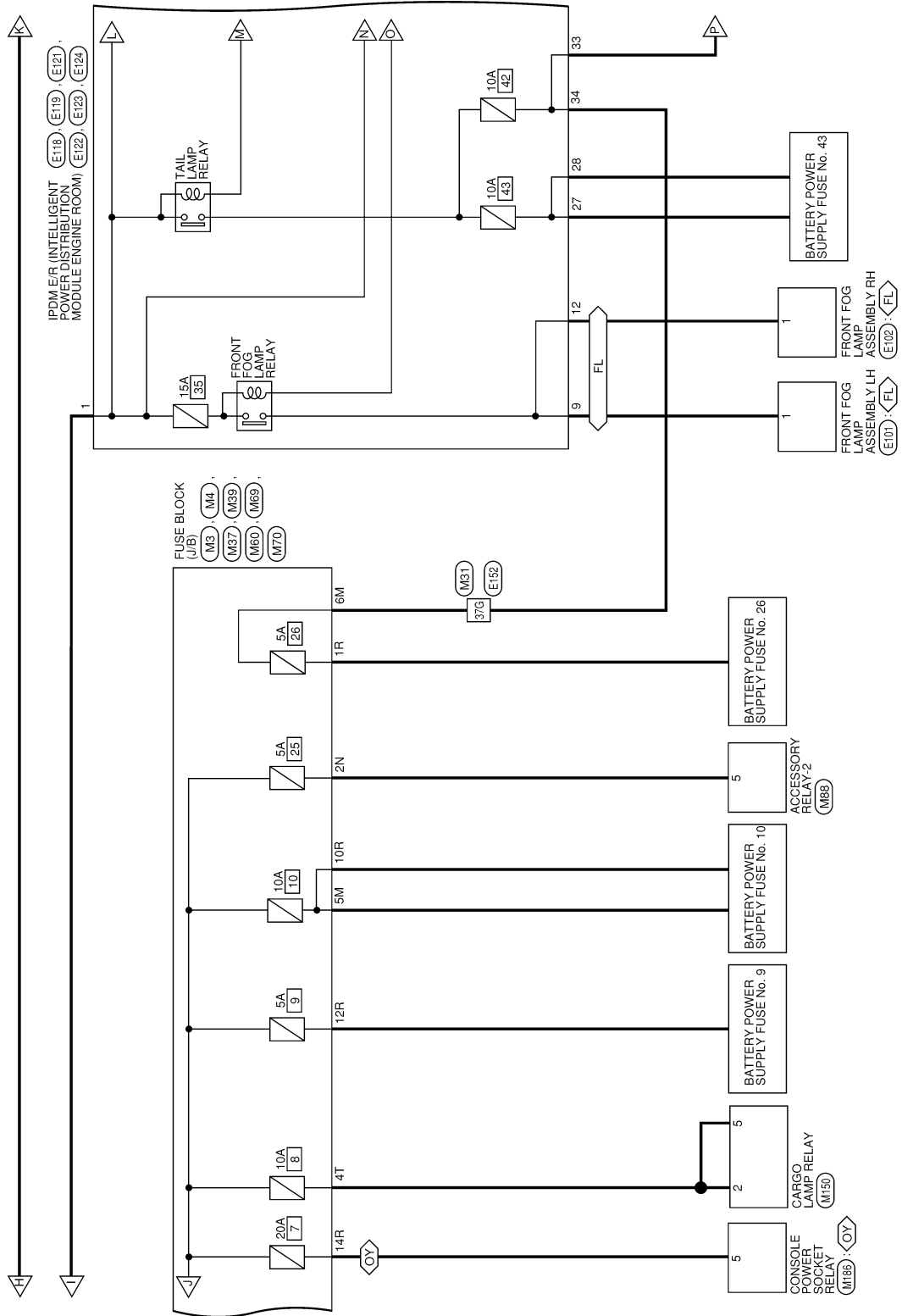


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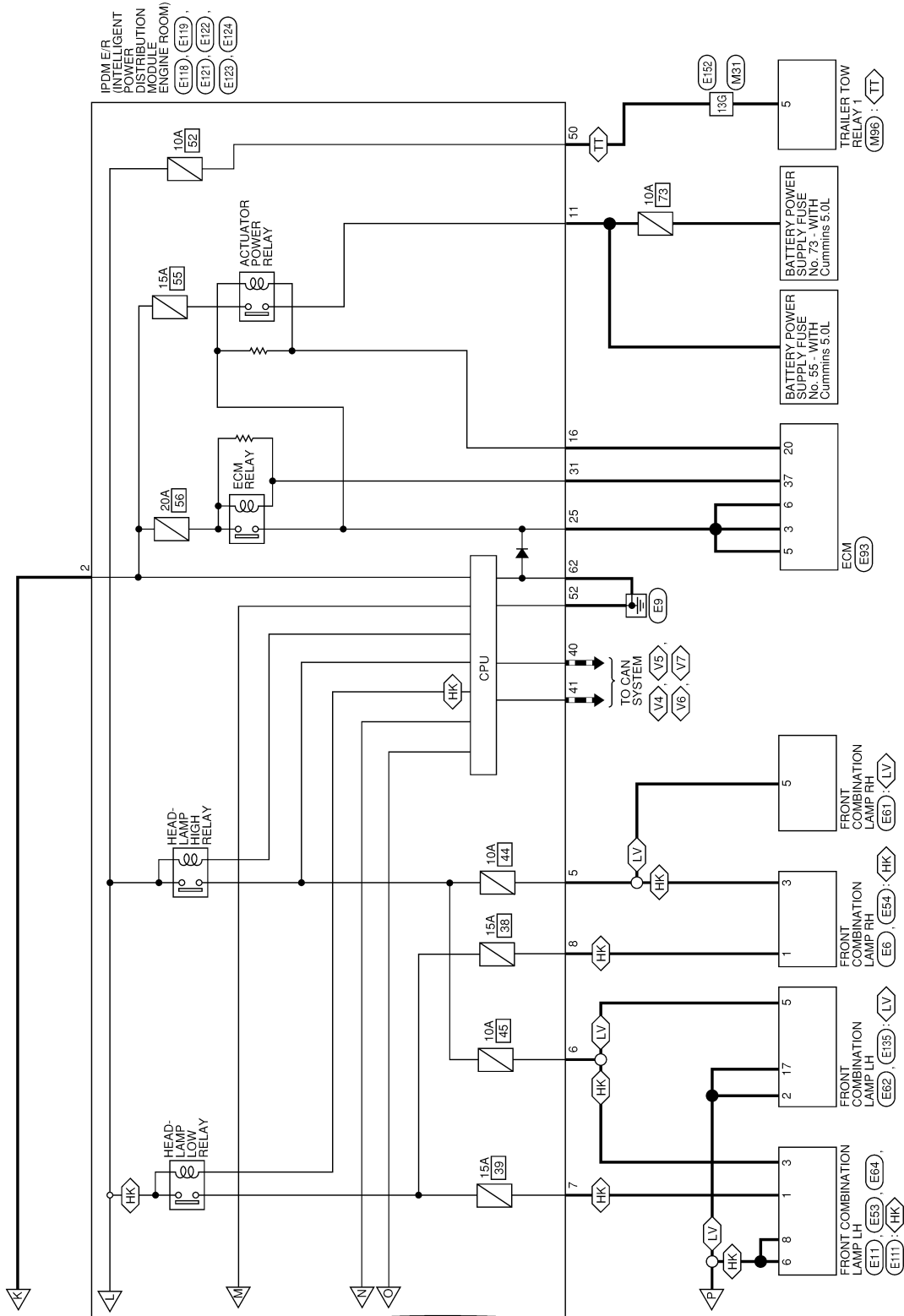
< WIRING DIAGRAM >



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POWER SUPPLY ROUTING CIRCUIT

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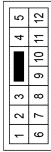
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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

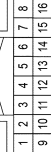
BATTERY POWER SUPPLY CONNECTORS - WITH Cummins 5.0L

Connector No.	B41
Connector Name	WIRE TO WIRE
Connector Type	NS12MM-CS
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	Y	TO ENGINE ROOM HARNESS
2	V	TO ENGINE ROOM HARNESS
3	L	TO ENGINE ROOM HARNESS
4	L/G	TO ENGINE ROOM HARNESS
5	R/G	TO ENGINE ROOM HARNESS
6	SB	TO ENGINE ROOM HARNESS
7	P	TO ENGINE ROOM HARNESS
8	L	TO ENGINE ROOM HARNESS
9	SHIELD	TO ENGINE ROOM HARNESS
10	W/G	TO ENGINE ROOM HARNESS
11	L	TO ENGINE ROOM HARNESS
12	BR	TO ENGINE ROOM HARNESS

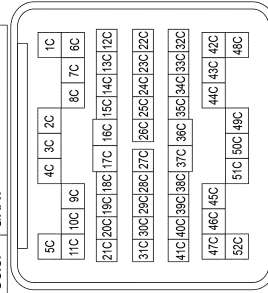
Connector No.	B77
Connector Name	DIFFERENTIAL LOCK CONTROL UNIT
Connector Type	TH16FW-NH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	Y	SOLENOID (+)
2	V	SOLENOID (-)
3	-	-
4	-	-
5	G/O	DIFF LOCK ON SW
6	-	-
7	P	IGN
8	L	CAN-H
9	BR	SOL BATT
10	B	GND

11	B	GND
12	L	DIFF LOCK POSITION SW
13	-	-
14	O	DIFF LOCK OFF SW
15	Y/R	VBATT
16	R	CAN-L

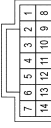
Connector No.	C1
Connector Name	WIRE TO WIRE
Connector Type	RK26FGY-RS20-X6
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
1C	Y/W	TO ENGINE ROOM HARNESS
2C	W/L	TO ENGINE ROOM HARNESS
3C	B	TO ENGINE ROOM HARNESS
4C	BR/W	TO ENGINE ROOM HARNESS
5C	BR/Y	TO ENGINE ROOM HARNESS
6C	Y	TO ENGINE ROOM HARNESS
7C	G/R	TO ENGINE ROOM HARNESS (WITH CUMMINS 5.0L)
8C	R	TO ENGINE ROOM HARNESS (WITH VK65VD)
9C	B	TO ENGINE ROOM HARNESS (WITH CUMMINS 5.0L)
10C	O/B	TO ENGINE ROOM HARNESS (WITH VK65VD)
11C	W/L	TO ENGINE ROOM HARNESS (WITH CUMMINS 5.0L)
12C	SB	TO ENGINE ROOM HARNESS (WITH VK65VD)
13C	GR/R	TO ENGINE ROOM HARNESS (WITH CUMMINS 5.0L)
14C	GR	TO ENGINE ROOM HARNESS (WITH VK65VD)
15C	B	TO ENGINE ROOM HARNESS (WITH CUMMINS 5.0L)
16C	R/W	TO ENGINE ROOM HARNESS (WITH VK65VD)
17C	Y	TO ENGINE ROOM HARNESS (WITH VK65VD)
18C	B	TO ENGINE ROOM HARNESS (WITH VK65VD)
19C	BG	TO ENGINE ROOM HARNESS (WITH VK65VD)
20C	Y	TO ENGINE ROOM HARNESS (WITH VK65VD)
21C	B	TO ENGINE ROOM HARNESS (WITH VK65VD)
22C	W/W	TO ENGINE ROOM HARNESS (WITH VK65VD)
23C	B	TO ENGINE ROOM HARNESS (WITH VK65VD)
24C	B/Y	TO ENGINE ROOM HARNESS (WITH VK65VD)
25C	V	TO ENGINE ROOM HARNESS (WITH CUMMINS 5.0L)
26C	B	TO ENGINE ROOM HARNESS (WITH CUMMINS 5.0L)
27C	LG	TO ENGINE ROOM HARNESS
28C	G/W	TO ENGINE ROOM HARNESS
29C	R/LG	TO ENGINE ROOM HARNESS
30C	R/L	TO ENGINE ROOM HARNESS
31C	B	TO ENGINE ROOM HARNESS
32C	R	TO ENGINE ROOM HARNESS
33C	L/W	TO ENGINE ROOM HARNESS
34C	L	TO ENGINE ROOM HARNESS
35C	R/W	TO ENGINE ROOM HARNESS
36C	L	TO ENGINE ROOM HARNESS
37C	Y	TO ENGINE ROOM HARNESS
38C	GR	TO ENGINE ROOM HARNESS
39C	R	TO ENGINE ROOM HARNESS
40C	P	TO ENGINE ROOM HARNESS
41C	V	TO ENGINE ROOM HARNESS
42C	LG/B	TO ENGINE ROOM HARNESS
43C	Y/B	TO ENGINE ROOM HARNESS
44C	R	TO ENGINE ROOM HARNESS
45C	G	TO ENGINE ROOM HARNESS
46C	BR	TO ENGINE ROOM HARNESS
47C	B	TO ENGINE ROOM HARNESS
48C	Y/R	TO ENGINE ROOM HARNESS
49C	R/Y	TO ENGINE ROOM HARNESS (WITH CUMMINS 5.0L)
50C	V	TO ENGINE ROOM HARNESS (WITH VK65VD)
51C	B	TO ENGINE ROOM HARNESS (WITH CUMMINS 5.0L)
52C	W/W	TO ENGINE ROOM HARNESS (WITH VK65VD)

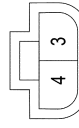
16C	Y	TO ENGINE ROOM HARNESS
17C	B	TO ENGINE ROOM HARNESS
18C	V	TO ENGINE ROOM HARNESS
19C	BG	TO ENGINE ROOM HARNESS
20C	L	TO ENGINE ROOM HARNESS
21C	W	TO ENGINE ROOM HARNESS
22C	LG	TO ENGINE ROOM HARNESS
23C	SHIELD	TO ENGINE ROOM HARNESS
24C	G/B	TO ENGINE ROOM HARNESS
25C	G/B	TO ENGINE ROOM HARNESS
26C	W	TO ENGINE ROOM HARNESS
27C	B	TO ENGINE ROOM HARNESS
28C	LG	TO ENGINE ROOM HARNESS
29C	G/W	TO ENGINE ROOM HARNESS
30C	R/LG	TO ENGINE ROOM HARNESS
31C	R/L	TO ENGINE ROOM HARNESS
32C	B	TO ENGINE ROOM HARNESS
33C	R	TO ENGINE ROOM HARNESS
34C	L/W	TO ENGINE ROOM HARNESS
35C	L	TO ENGINE ROOM HARNESS
36C	R/W	TO ENGINE ROOM HARNESS
37C	Y	TO ENGINE ROOM HARNESS
38C	GR	TO ENGINE ROOM HARNESS
39C	R	TO ENGINE ROOM HARNESS
40C	P	TO ENGINE ROOM HARNESS
41C	V	TO ENGINE ROOM HARNESS
42C	LG/B	TO ENGINE ROOM HARNESS
43C	Y/B	TO ENGINE ROOM HARNESS
44C	R	TO ENGINE ROOM HARNESS
45C	G	TO ENGINE ROOM HARNESS
46C	BR	TO ENGINE ROOM HARNESS
47C	B	TO ENGINE ROOM HARNESS
48C	Y/R	TO ENGINE ROOM HARNESS
49C	R/Y	TO ENGINE ROOM HARNESS (WITH CUMMINS 5.0L)
50C	V	TO ENGINE ROOM HARNESS (WITH VK65VD)
51C	B	TO ENGINE ROOM HARNESS (WITH CUMMINS 5.0L)
52C	W/W	TO ENGINE ROOM HARNESS (WITH VK65VD)

Connector No.	C35
Connector Name	DEF CONTROL MODULE
Connector Type	YEA10GY-YHA4
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
1	R/Y	HEATER PWR SUPPLY
3	Y	SCR PWR SUPPLY
4	L/G/R	WAKE UP OMD
5	Y	J1939 +
6	G	J1939 -
7	B	V GND
8	-	-
9	-	-
10	-	-
11	-	-
12	-	-
13	-	-
14	-	-

Connector No.	E6
Connector Name	FRONT COMBINATION LAMP RH (WITH HALOGEN HEADLAMPS)
Connector Type	NIU2FB
Connector Color	BLACK





Terminal No.	Color of Wire	Signal Name
3	L/W	IGNITION
4	B	GND

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >


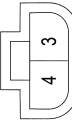
BATTERY POWER SUPPLY CONNECTORS - WITH Cummins 5.0L

Connector No.	E7
Connector Name	FUSIBLE LINK BOX LH (BATTERY)
Connector Type	L02FGY-MC
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
3	B/R	BATTERY
4	R	BATTERY

Connector No.	E11
Connector Name	FRONT COMBINATION LAMP LH (WITH HALOGEN HEADLAMPS)
Connector Type	NU02FB
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
3	G	IGNITION
4	B	GND

Connector No.	E27
Connector Name	FUSIBLE LINK BOX LH (BATTERY)
Connector Type	L02FBR-MC
Connector Color	BROWN



1	B	BATTERY
2	W	BATTERY

Connector No.	E30
Connector Name	FUSIBLE LINK BOX LH (BATTERY)
Connector Type	E-LAB
Connector Color	-


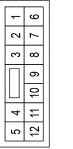
Terminal No.	Color of Wire	Signal Name
7	-	BATTERY

Connector No.	E33
Connector Name	WIRE TO WIRE
Connector Type	L02MB-MC
Connector Color	BLACK

Terminal No.	Color of Wire	Signal Name
1	W	TO MAIN HARNESS
2	L	TO MAIN HARNESS

Connector No.	E35
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS
Connector Color	WHITE

Terminal No.	Color of Wire	Signal Name
1	Y	TO BODY HARNESS

2	V	TO BODY HARNESS
3	L	TO BODY HARNESS
4	W	TO BODY HARNESS
5	R/G	TO BODY HARNESS
6	SB	TO BODY HARNESS
7	P	TO BODY HARNESS
8	L	TO BODY HARNESS
9	SHIELD	TO BODY HARNESS
10	B	TO BODY HARNESS
11	R	TO BODY HARNESS
12	BR	TO BODY HARNESS

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POWER SUPPLY ROUTING CIRCUIT

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BATTERY POWER SUPPLY CONNECTORS - WITH Cummins 5.0L

Connector No.	E41
Connector Name	WIRE TO WIPE
Connector Type	RK26M/GY-RS20-X6
Connector Color	GRAY

1C	2C	3C	4C	5C
6C	7C	8C	9C	10C 11C
12C 13C 14C 15C	16C 17C 18C 19C 20C 21C			
22C 23C 24C 25C 26C	27C 28C 29C 30C 31C			
32C 33C 34C 35C 36C 37C 38C 39C 40C 41C				
42C 43C 44C	45C 46C 47C			
48C	49C 50C 51C	52C		

Terminal No.	Color of Wire	Signal Name
1C	Y/W	TO CHASSIS HARNESS
2C	W/L	TO CHASSIS HARNESS
3C	B	TO CHASSIS HARNESS
4C	BR/W	TO CHASSIS HARNESS
5C	BR/Y	TO CHASSIS HARNESS
6C	Y	TO CHASSIS HARNESS
7C	R	TO CHASSIS HARNESS - (WITH VK56VD)
8C	G/R	TO CHASSIS HARNESS - (WITH CUMMINS 5.0L)
9C	O/B	TO CHASSIS HARNESS - (WITH VK56VD)
10C	B	TO CHASSIS HARNESS - (WITH CUMMINS 5.0L)
11C	SB	TO CHASSIS HARNESS - (WITH VK56VD)
12C	W/L	TO CHASSIS HARNESS - (WITH CUMMINS 5.0L)
13C	GR	TO CHASSIS HARNESS - (WITH VK56VD)
14C	GR/R	TO CHASSIS HARNESS - (WITH CUMMINS 5.0L)
15C	R/W	TO CHASSIS HARNESS - (WITH VK56VD)
16C	B	TO CHASSIS HARNESS - (WITH CUMMINS 5.0L)
17C	Y	TO CHASSIS HARNESS
18C	BG	TO CHASSIS HARNESS
19C	L	TO CHASSIS HARNESS
20C	BG	TO CHASSIS HARNESS
21C	B	TO CHASSIS HARNESS

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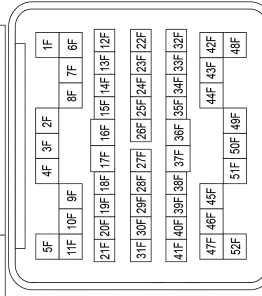
Terminal No.	Shield	Signal Name
22C	G/B	TO CHASSIS HARNESS
23C	G/Y	TO CHASSIS HARNESS
24C	W	TO CHASSIS HARNESS
25C	B	TO CHASSIS HARNESS
26C	LG	TO CHASSIS HARNESS
27C	G/W	TO CHASSIS HARNESS - (WITH BULB CHECK)
28C	G/R	TO CHASSIS HARNESS - (WITH BULB CHECK)
29C	R/G	TO CHASSIS HARNESS - (WITHOUT BULB CHECK)
30C	R/L	TO CHASSIS HARNESS
31C	B	TO CHASSIS HARNESS
32C	R	TO CHASSIS HARNESS
33C	L/W	TO CHASSIS HARNESS
34C	L	TO CHASSIS HARNESS
35C	R/W	TO CHASSIS HARNESS
36C	L	TO CHASSIS HARNESS
37C	Y	TO CHASSIS HARNESS
38C	BR	TO CHASSIS HARNESS
39C	R	TO CHASSIS HARNESS
40C	P	TO CHASSIS HARNESS
41C	V	TO CHASSIS HARNESS
42C	G/B	TO CHASSIS HARNESS
43C	Y/B	TO CHASSIS HARNESS
44C	R	TO CHASSIS HARNESS
45C	G	TO CHASSIS HARNESS
46C	BR	TO CHASSIS HARNESS
47C	B	TO CHASSIS HARNESS
48C	Y/R	TO CHASSIS HARNESS - (WITH VK56VD)
49C	V	TO CHASSIS HARNESS - (WITH CUMMINS 5.0L)
50C	B/Y	TO CHASSIS HARNESS - (WITH VK56VD)
51C	B	TO CHASSIS HARNESS - (WITH CUMMINS 5.0L)
52C	V	TO CHASSIS HARNESS - (WITH CUMMINS 5.0L)
53C	V/W	TO CHASSIS HARNESS - (WITHOUT FFV)
54C	B	TO CHASSIS HARNESS - (WITH FFV)
55C	L	TO CHASSIS HARNESS - (WITH FFV)

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

BATTERY POWER SUPPLY CONNECTORS - WITH Cummins 5.0L

Connector No.	E52
Connector Name	WIRE TO WIRE
Connector Type	RK26FGY-RS20-X6
Connector Color	GRAY




Terminal No.	Color of Wire	Signal Name
1F	Y	TO ENGINE CONTROL NO. 2 HARNESS
2F	B	TO ENGINE CONTROL NO. 2 HARNESS
3F	BR	TO ENGINE CONTROL NO. 2 HARNESS
4F	W/R	TO ENGINE CONTROL NO. 2 HARNESS
5F	B/R	TO ENGINE CONTROL NO. 2 HARNESS
6F	O	TO ENGINE CONTROL NO. 2 HARNESS
7F	GR/Y	TO ENGINE CONTROL NO. 2 HARNESS
8F	V	TO ENGINE CONTROL NO. 2 HARNESS
9F	BR	TO ENGINE CONTROL NO. 2 HARNESS
10F	Y/B	TO ENGINE CONTROL NO. 2 HARNESS
11F	L	TO ENGINE CONTROL NO. 2 HARNESS
12F	R	TO ENGINE CONTROL NO. 2 HARNESS
13F	Y	TO ENGINE CONTROL NO. 2 HARNESS
14F	V	TO ENGINE CONTROL NO. 2 HARNESS
15F	SB	TO ENGINE CONTROL NO. 2 HARNESS
16F	P	TO ENGINE CONTROL NO. 2 HARNESS
17F	Y/R	TO ENGINE CONTROL NO. 2 HARNESS
18F	R	TO ENGINE CONTROL NO. 2 HARNESS
19F	V	TO ENGINE CONTROL NO. 2 HARNESS
20F	BR	TO ENGINE CONTROL NO. 2 HARNESS

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21F	L/R	TO ENGINE CONTROL NO. 2 HARNESS
22F	L/W	TO ENGINE CONTROL NO. 2 HARNESS
23F	R/L	TO ENGINE CONTROL NO. 2 HARNESS
24F	W/L	TO ENGINE CONTROL NO. 2 HARNESS
25F	W/R	TO ENGINE CONTROL NO. 2 HARNESS
26F	B/R	TO ENGINE CONTROL NO. 2 HARNESS
27F	Y	TO ENGINE CONTROL NO. 2 HARNESS
28F	W/R	TO ENGINE CONTROL NO. 2 HARNESS
29F	L/O	TO ENGINE CONTROL NO. 2 HARNESS
30F	B	TO ENGINE CONTROL NO. 2 HARNESS
31F	B	TO ENGINE CONTROL NO. 2 HARNESS
32F	V/W	TO ENGINE CONTROL NO. 2 HARNESS
33F	GR	TO ENGINE CONTROL NO. 2 HARNESS
34F	L/R	TO ENGINE CONTROL NO. 2 HARNESS
35F	R/W	TO ENGINE CONTROL NO. 2 HARNESS
36F	L/B	TO ENGINE CONTROL NO. 2 HARNESS
37F	L	TO ENGINE CONTROL NO. 2 HARNESS
38F	R/Y	TO ENGINE CONTROL NO. 2 HARNESS
39F	R/Y	TO ENGINE CONTROL NO. 2 HARNESS
40F	B/R	TO ENGINE CONTROL NO. 2 HARNESS
41F	W	TO ENGINE CONTROL NO. 2 HARNESS
42F	Y	TO ENGINE CONTROL NO. 2 HARNESS
43F	B/P	TO ENGINE CONTROL NO. 2 HARNESS
44F	Y/B	TO ENGINE CONTROL NO. 2 HARNESS
45F	L/Y	TO ENGINE CONTROL NO. 2 HARNESS
46F	O	TO ENGINE CONTROL NO. 2 HARNESS
47F	W/R	TO ENGINE CONTROL NO. 2 HARNESS
48F	L	TO ENGINE CONTROL NO. 2 HARNESS
49F	BR	TO ENGINE CONTROL NO. 2 HARNESS
50F	SHIELD	TO ENGINE CONTROL NO. 2 HARNESS
51F	L	TO ENGINE CONTROL NO. 2 HARNESS


52F	BR	TO ENGINE CONTROL NO. 2 HARNESS
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Connector No.	E53
Connector Name	FRONT COMBINATION LAMP LH (WITH HALOGEN HEADLAMPS)
Connector Type	FHZ02FB
Connector Color	BLACK



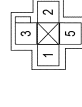
Terminal No.	Color of Wire	Signal Name
1	L	IGNITION
2	B	GND

Connector No.	E54
Connector Name	FRONT COMBINATION LAMP RH (WITH HALOGEN HEADLAMPS)
Connector Type	FHZ02FB
Connector Color	BLACK



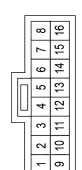
Terminal No.	Color of Wire	Signal Name
1	R/Y	IGNITION
2	B	GND

Connector No.	E59
Connector Name	INVERTER RELAY
Connector Type	24347_9F900
Connector Color	BLUE



Terminal No.	Color of Wire	Signal Name
1	SB	RLY CONT
2	G/R	IGNITION
3	W	IGNITION
5	W	BATTERY

Connector No.	E61
Connector Name	FRONT COMBINATION LAMP RH (WITH LED HEADLAMPS)
Connector Type	MBA18FGY
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
1	R	IGNITION
2	R/L	DTRL RLY
3	BR	HEADLAMP LO RH
4	R/Y	HEADLAMP HI RH
5	L/W	GND
6	B	GND
7	B	LED H/LAMP RH
8	BR	-
9	-	-
10	-	-
11	-	-
12	-	-
13	-	-
14	-	-
15	-	-
16	-	-

Terminal No.	Color of Wire	Signal Name
1	R	IGNITION
2	R/L	DTRL RLY
3	BR	HEADLAMP LO RH
4	R/Y	HEADLAMP HI RH
5	L/W	GND
6	B	GND
7	B	LED H/LAMP RH
8	BR	-
9	-	-
10	-	-
11	-	-
12	-	-
13	-	-
14	-	-
15	-	-
16	-	-



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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >



BATTERY POWER SUPPLY CONNECTORS - WITH Cummins 5.0L

Connector No.	E62
Connector Name	FRONT COMBINATION LAMP LH (WITH LED HEADLAMPS)
Connector Type	MBA18FGY
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
1	R	IGNITION
2	R/L	-
3	BR	DTL R/LY
4	L	HEADLAMP LO LH
5	G	HEADLAMP HI LH
6	B	GND
7	B	GND
8	W	LED HI/LAMP LH
9	-	-
10	-	-
11	-	-
12	-	-
13	-	-
14	-	-
15	-	-
16	-	-

Connector No.	E64
Connector Name	FRONT COMBINATION LAMP LH (WITH HALOGEN HEADLAMPS)
Connector Type	AB03FY
Connector Color	YELLOW



Terminal No.	Color of Wire	Signal Name
5	B	GND
6	R/L	-
7	G/B	FL FLASHER

Connector No.	E69
Connector Name	GLOW PLUG CONTROL MODULE
Connector Type	RS01FB
Connector Color	BLACK



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

Connector No.	E71
Connector Name	FUSIBLE LINK BOX LH (BATTERY)
Connector Type	24340-JA04D
Connector Color	-


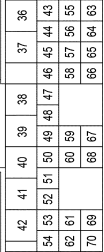
Terminal No.	Color of Wire	Signal Name
5	B	BATTERY

Connector No.	E72
Connector Name	FUSIBLE LINK BOX LH (BATTERY)
Connector Type	24340-BB60A
Connector Color	-

Terminal No.	Color of Wire	Signal Name
6	B	BATTERY



Connector No.	E73
Connector Name	TCM (TRANSMISSION CONTROL MODULE) (WITH CUMMINS 5.0L)
Connector Type	AAH28FW-TK7
Connector Color	WHITE

Terminal No.	Color of Wire	Signal Name
36	B	GND
37	B	GND
38	L/Y	LINE PRESSURE SOLENOID VALVE (+)
39	O	LINE PRESSURE SOLENOID VALVE (-)
40	-	-
41	R/W	BATT
42	R/W	BATT
43	L/R	C1 CLUTCH SOLENOID VALVE (+)
44	R/W	C1 CLUTCH SOLENOID VALVE (-)
45	R/Y	C2 CLUTCH SOLENOID VALVE (+)
46	R/Y	C2 CLUTCH SOLENOID VALVE (-)
47	B/R	C3 CLUTCH SOLENOID VALVE (+)
48	W	C3 CLUTCH SOLENOID VALVE (-)
49	R/L	B1 BRAKE SOLENOID VALVE (-)
50	L/W	B1 BRAKE SOLENOID VALVE (+)
51	-	-
52	-	-
53	-	-
54	P	ACCESSORY RELAY-2
55	-	-
56	-	-
57	V	A/T FLUID TEMPERATURE SENSOR 1 (+)
58	SB	A/T FLUID TEMPERATURE SENSOR 1 (-)
59	Y	B2 BRAKE SOLENOID VALVE (-)
60	W/L	B2 BRAKE SOLENOID VALVE (+)
61	-	-
62	-	-
63	L	CAN-H
64	P	CAN-L
65	L/B	A/T FLUID TEMPERATURE SENSOR 2 (+)
66	L	A/T FLUID TEMPERATURE SENSOR 2 (-)
67	V/W	TORQUE CONVERTER CLUTCH SOLENOID VALVE (-)

68	Y/B	TORQUE CONVERTER CLUTCH SOLENOID VALVE (+)
69	-	-
70	W/R	FAIL-SAFE SOLENOID VALVE

Connector No.	E81
Connector Name	FUSIBLE LINK BOX RH (BATTERY)
Connector Type	L02FBR-MC
Connector Color	BROWN

Terminal No.	Color of Wire	Signal Name
1	B/L	BATTERY
2	B/Y	BATTERY

Connector No.	E82
Connector Name	FUSIBLE LINK BOX RH (BATTERY)
Connector Type	L02FGY-MC
Connector Color	GRAY




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

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

BATTERY POWER SUPPLY CONNECTORS - WITH Cummins 5.0L

Connector No.	E83
Connector Name	FUSIBLE LINK BOX RH (BATTERY)
Connector Type	E-LA8
Connector Color	-



Terminal No.	Color of Wire	Signal Name
7	-	BATTERY

Connector No.	E85
Connector Name	FUSIBLE LINK BOX RH (BATTERY)
Connector Type	24340_79907
Connector Color	-



Terminal No.	Color of Wire	Signal Name
9	B	BATTERY

Connector No.	E86
Connector Name	FUSIBLE LINK BOX RH (BATTERY)
Connector Type	24340_BB60A
Connector Color	-



Terminal No.	Color of Wire	Signal Name
6	B	BATTERY

Connector No.	E90
Connector Name	UREA HEATER RELAY
Connector Type	MS02FL-M2-LC
Connector Color	BLUE



Terminal No.	Color of Wire	Signal Name
1	B	GROUND
2	L/W	IGNITION
3	R/Y	HEATER POWER SUPPLY
5	W/R	BATTERY

Connector No.	E93
Connector Name	ECM (WITH CUMMINS 5.0L)
Connector Type	1-928-405-452
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	B	GROUND
2	B	GROUND
3	BR	SW BATTERY
4	B	GROUND
5	BR	SW BATTERY
6	BR	SW BATTERY
7	O	DOF DELTA PRESS
8	-	-
9	-	-
10	-	-
11	-	-
12	-	-
13	-	-
14	-	-
15	L/R	AT SENSOR RTN
16	P	CAN-L
17	-	-
18	G	J1939 +
19	-	-

20	G	SMART POWER LSD
21	-	-
22	-	-
23	-	-
24	SB	DPF OUT PRESS
25	-	-
26	R/L	REF PRESS SENS SIGNAL
27	-	-
28	-	-
29	-	-
30	-	-
31	-	-
32	Y	AT SSR SUPPLY
33	L	CAN-H
34	-	-
35	Y	J1939 +
36	-	-
37	L	MAIN RLY LSD
38	-	-
39	-	-
40	GR	FUEL PUMP RLY SIG
41	BR	SW RETURN
42	-	-
43	-	-
44	-	-
45	-	-
46	-	-
47	-	-
48	-	-
49	-	-
50	-	-
51	-	-
52	-	-
53	R/G	BRAKE SW OPEN
54	L	BRAKE NC
55	-	-
56	-	-
57	-	-
58	-	-
59	G/Y	ASCD SIGNAL
60	-	-
61	B/Y	ASCD RETURN
62	R	PPS2 RETURN
63	R	PPS1 RETURN
64	R/W	REF PRESS SENS RETURN
65	L/W	IGN/KEYSWITCH
66	-	-
67	-	-
68	-	-
69	-	-
70	-	-
71	-	-
72	-	-

73	B	DOSER RETURN
74	GR/R	DOSER HS
75	L/W	COOLANT SIGNAL
76	-	-
77	L	W/F SIGNAL
78	L	PPS2 SIGNAL
79	BR	PPS1 SIGNAL
80	W	PPS1 SUPPLY
81	B	PPS2 SUPPLY
82	-	-
83	BR	BATTERY
84	-	-
85	-	-
86	-	-
87	-	-
88	-	-
89	-	-
90	-	-
91	-	-

Connector No.	E96
Connector Name	TRAILER TURN RELAY LH
Connector Type	MS02FL-M2-LC
Connector Color	BLUE



Terminal No.	Color of Wire	Signal Name
1	G/B	TRAILER LH FLASH
2	L	BATTERY
3	G/B	STOP/TURN LH (7 PIN)
5	L	BATTERY



A B C D E F G H I J K L O P PG

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >



BATTERY POWER SUPPLY CONNECTORS - WITH Cummins 5.0L

Connector No.	E97
Connector Name	TRAILER TURN RELAY RH
Connector Type	MS02FL-M2-LC
Connector Color	BLUE



Terminal No.	Color of Wire	Signal Name
1	Y/B	TRAILER RH FLASH
2	L	BATTERY
3	Y/B	STOP/TURN RH (7 PIN)
5	L	BATTERY

Connector No.	E99
Connector Name	TRAILER TOW RELAY 2
Connector Type	M06FBR-R-LC
Connector Color	BROWN



Terminal No.	Color of Wire	Signal Name
1	G	RELAY CONT
2	B	GND
3	Y	BATTERY
5	W/L	POWER (7 PIN)
6	Y	BATTERY
7	W/L	POWER (7 PIN)

Connector No.	E101
Connector Name	FRONT FOG LAMP ASSEMBLY LH
Connector Type	FH202FB
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	G/W	FR FOG/L LH
2	B	GND

Connector No.	E102
Connector Name	FRONT FOG LAMP ASSEMBLY RH
Connector Type	FH202FB
Connector Color	BLACK

Terminal No.	Color of Wire	Signal Name
1	W/R	FR FOG/L RH
2	B	GND



Connector No.	E103
Connector Name	DAYTIME RUNNING LIGHT RELAY
Connector Type	MS02FL-M2-LC
Connector Color	BLUE

Terminal No.	Color of Wire	Signal Name
1	G	BATTERY



2	BR	DTRL RLY
3	G	BATTERY
5	L	IGNITION

Connector No.	E111
Connector Name	FRONT COMBINATION LAMP LH (WITH HALOGEN HEADLAMPS)
Connector Type	RK02FBR
Connector Color	BROWN



Terminal No.	Color of Wire	Signal Name
8	R/L	-
9	B	-

Connector No.	E118
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	L02FB-MC
Connector Color	BLACK

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

Connector No.	E119
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS16FW-CS
Connector Color	WHITE

Terminal No.	Color of Wire	Signal Name
3	-	-
4	BR	NP SW
5	L/W	H/LAMP HI RH
6	G	H/LAMP HI LH
7	L	H/LAMP LO LH
8	R/Y	H/LAMP LO RH
9	G/W	FR FOG/L LH
10	-	-
11	P	ETC VB - (WITH CUMMINS 5.0L)
12	W/R	ETC VB - (WITH VK56VD)
13	Y/R	FR FOG/L RH
14	G	A/T ECU IGN
15	GR	REVERSE LAMP IGN
16	G	ABS ECU IGN
17	W	ETC RLY CONT - (WITH CUMMINS 5.0L)
18	-	-

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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

BATTERY POWER SUPPLY CONNECTORS - WITH Cummins 5.0L

Connector No.	E120
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	M06FW-LC
Connector Color	WHITE

21	20	19
24	23	22



Terminal No.	Color of Wire	Signal Name
19	W/R	STARTER MOTOR
20	L	FL IGN SW
21	-	-
22	-	-
23	-	-
24	-	-

Connector No.	E121
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS12FBR-CS
Connector Color	BROWN

28	28	27	26	25
36	35	34	33	32
31	30	29	28	27



Terminal No.	Color of Wire	Signal Name
25	BR	ECM VB - (WITH CUMMINS 5.0L)
26	W	ECM VB - (WITH YK65VD)
27	V	02 SENS - (WITH YK65VD)
28	R/L	PARKING RH
29	R/L	TAIL 1
30	Y	FR WIPER HI
31	L	ECM RLY CONT
32	L	ECM BAT - (WITH YK65VD)
33	R/L	PARKING LH
34	R/W	TAIL 2
35	BR	FR WIPER LO
36	-	-

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Connector No.	E122
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH12FW-NH
Connector Color	WHITE

42	41	40	39	38	37
48	47	46	45	44	43



Terminal No.	Color of Wire	Signal Name
37	-	-
38	-	-
39	L/Y	WIPER AUTO STOP SW
40	P	CAN-L
41	L	CAN-H
42	BR	DTRL RLY
43	-	-
44	W/B	START CONT
45	GR	FUEL RLY CONT
46	Y	HOOD SW
47	Y	ALT C - (WITH YK65VD)
48	R/W	HORN RLY CONT

Connector No.	E123
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS08FBR-CS
Connector Color	BROWN

51	50	49
56	55	54
53	52	51



Terminal No.	Color of Wire	Signal Name
49	Y/B	A/C COMP - (WITH CUMMINS 5.0L)
49	GR/R	A/C COMP - (WITH YK65VD)
50	BR	TRAILER TOW
51	-	-
52	B	S-GND
53	-	-
54	-	-

55	-	-
56	-	-

Connector No.	E124
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	M06FB-LC
Connector Color	BLACK



59	58	57
62	61	60

Terminal No.	Color of Wire	Signal Name
57	W/B	RR DEF
58	BR	FUEL PUMP - (WITH CUMMINS 5.0L)
59	BY	FUEL PUMP - (WITH YK65VD)
60	-	-
61	-	-
62	B	P GND

Connector No.	E125
Connector Name	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
Connector Type	SAZ42FB-SJ24
Connector Color	BLACK



46	45	44	43	42	41	40	39	38	37	36	35	34	33
32	31	30	29	28	27	26	25	24	23	22	21	20	19
18	17	16	15	14	13	12	11	10	9	8	7	6	5
4	3	2	1										



Terminal No.	Color of Wire	Signal Name
1	G	ABS SOL
2	B	GND 1
3	B	GND 2
4	W	MTR POWER 1
5	-	-
6	-	-
7	-	-
8	-	-
9	BR	YG CANH

Terminal No.	Color of Wire	Signal Name
10	LG	YG CAN-L
11	-	-
12	-	-
13	P/B	LBL
14	-	-
15	-	-
16	-	-
17	R/B	STP2
18	GR	IGN 1
19	V	FR SENS-
20	SB	FL SENS+
21	R	RR SENS-
22	V	RL SENS+
23	-	-
24	-	-
25	-	-
26	-	-
27	P	CAN-L
28	-	-
29	-	-
30	-	-
31	-	-
32	-	-
33	LG	FR SENS+
34	LG	FL SENS-
35	BR	RR SENS+
36	P	RL SENS-
37	R/G	STP
38	-	-
39	G	VDC OFF
40	-	-
41	L	CAN-H
42	-	-
43	GW	HDC ON
44	-	-
45	-	-
46	W	STPO

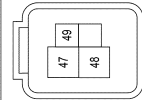
A B C D E F G H I J K L N O P PG

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

BATTERY POWER SUPPLY CONNECTORS - WITH Cummins 5.0L

Connector No.	E133
Connector Name	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
Connector Type	SAZ02FB-SJZZ
Connector Color	BLACK



H.S.

Terminal No.	Color of Wire	Signal Name
47	W	MTR POWER 2
48	B	GND 3
49	O/L	IG 2
50	-	-

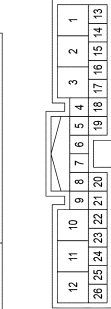
Connector No.	E135
Connector Name	FRONT COMBINATION LAMP LH (WITH LED HEADLAMPS)
Connector Type	RK02FBR
Connector Color	BROWN



H.S.

Terminal No.	Color of Wire	Signal Name
17	R/L	RLY POWER
18	B	GND

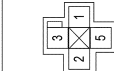
Connector No.	E142
Connector Name	TRANSFER CONTROL UNIT
Connector Type	TH20FW-TB6
Connector Color	WHITE



H.S.

Terminal No.	Color of Wire	Signal Name
1	Y/R	ECU POWER
2	B	GND
3	B	GND
4	GR	IGN SW
5	L/O	ROTARY POSITION SENSOR 5V SUPPLY
6	Y	ROTARY POSITION SENSOR RETURN
7	-	-
8	-	-
9	Y/R	4WD SHIFT SWITCH 5V SUPPLY
10	G	MOTOR POWER
11	L	MOTORA
12	BR	MOTOR B
13	L	CAN-H
14	P	CAN-L
15	W/R	ROTARY POSITION SENSOR INPUT
16	-	-
17	-	-
18	G/W	2WD MODE SW
19	O	4H MODE SW
20	R	4LO MODE SW
21	BR	RANGE 2 SENSOR INPUT
22	L/R	RANGE 1 SENSOR INPUT
23	V	MODE SENSOR INPUT
24	-	-
25	-	-
26	-	-

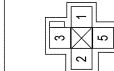
Connector No.	E144
Connector Name	PTC RELAY-1
Connector Type	24347-9F900
Connector Color	BLUE



H.S.

Terminal No.	Color of Wire	Signal Name
1	G	IGNITION
2	G/R	PTC 1
3	O	BATTERY
5	BR	IGNITION

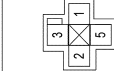
Connector No.	E145
Connector Name	PTC RELAY-3
Connector Type	24347-9F900
Connector Color	BLUE



H.S.

Terminal No.	Color of Wire	Signal Name
1	G	IGNITION
2	SB	PTC 3
3	G	BATTERY
5	L	IGNITION

Connector No.	E146
Connector Name	PTC RELAY-2
Connector Type	24347-9F900
Connector Color	BLUE



H.S.

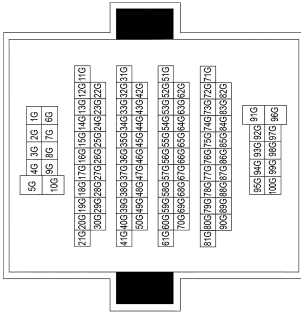
Terminal No.	Color of Wire	Signal Name
1	G	IGNITION
2	LG	PTC 3
3	R	BATTERY
5	G	IGNITION

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

BATTERY POWER SUPPLY CONNECTORS - WITH Cummins 5.0L

Connector No.	E152
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CST6-TM4
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
22G	G/Y	TO MAIN HARNESS - (WITH VK8VD)
23G	Y/R	TO MAIN HARNESS
24G	G/B	TO MAIN HARNESS
25G	R/W	TO MAIN HARNESS
26G	R	TO MAIN HARNESS
27G	LG	TO MAIN HARNESS
28G	G/B	TO MAIN HARNESS
29G	G/B	TO MAIN HARNESS
30G	BR/Y	TO MAIN HARNESS
31G	P	TO MAIN HARNESS - (WITH CUMMINS 5.0L)
31G	R	TO MAIN HARNESS - (WITH VK8VD)
32G	P	TO MAIN HARNESS
33G	Y/L	TO MAIN HARNESS
34G	GR	TO MAIN HARNESS
35G	G/R	TO MAIN HARNESS
36G	SB	TO MAIN HARNESS
37G	R/W	TO MAIN HARNESS
38G	BR	TO MAIN HARNESS
39G	BR	TO MAIN HARNESS
40G	-	TO MAIN HARNESS
41G	R/G	TO MAIN HARNESS
42G	O	TO MAIN HARNESS
43G	B	TO MAIN HARNESS - (WITH CUMMINS 5.0L)
43G	G	TO MAIN HARNESS - (WITH VK8VD)
44G	R/Y	TO MAIN HARNESS
45G	G	TO MAIN HARNESS
46G	LG	TO MAIN HARNESS
47G	R	TO MAIN HARNESS
48G	W	TO MAIN HARNESS
49G	-	TO MAIN HARNESS
50G	BR	TO MAIN HARNESS
51G	R	TO MAIN HARNESS
52G	L	TO MAIN HARNESS
53G	W	TO MAIN HARNESS
54G	W	TO MAIN HARNESS
55G	G	TO MAIN HARNESS
56G	W	TO MAIN HARNESS
57G	Y	TO MAIN HARNESS
58G	BG	TO MAIN HARNESS
59G	BG	TO MAIN HARNESS
60G	BG	TO MAIN HARNESS
61G	B	TO MAIN HARNESS
62G	W	TO MAIN HARNESS
63G	R	TO MAIN HARNESS
64G	W/L	TO MAIN HARNESS
65G	W/R	TO MAIN HARNESS
66G	BG	TO MAIN HARNESS
67G	BG	TO MAIN HARNESS
68G	B	TO MAIN HARNESS
68G	Y	TO MAIN HARNESS

Terminal No.	Color of Wire	Signal Name
1G	G	TO MAIN HARNESS
2G	B/R	TO MAIN HARNESS
3G	W/B	TO MAIN HARNESS
4G	B/W	TO MAIN HARNESS
5G	BR	TO MAIN HARNESS
6G	P	TO MAIN HARNESS - (WITH VK8VD)
6G	R/W	TO MAIN HARNESS - (WITH CUMMINS 5.0L)
7G	Y	TO MAIN HARNESS
8G	R	TO MAIN HARNESS
9G	W	TO MAIN HARNESS
10G	W	TO MAIN HARNESS
11G	R/G	TO MAIN HARNESS
12G	W/B	TO MAIN HARNESS
13G	BR	TO MAIN HARNESS
14G	Y/B	TO MAIN HARNESS
15G	G/W	TO MAIN HARNESS
16G	G	TO MAIN HARNESS
17G	G/Y	TO MAIN HARNESS
18G	G/Y	TO MAIN HARNESS
19G	Y/Y	TO MAIN HARNESS
20G	G/Y	TO MAIN HARNESS
21G	B/Y	TO MAIN HARNESS
22G	G/R	TO MAIN HARNESS - (WITH CUMMINS 5.0L)

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70G	L	TO MAIN HARNESS
71G	R/W	TO MAIN HARNESS
72G	L/W	TO MAIN HARNESS
73G	SHIELD	TO MAIN HARNESS
74G	W	TO MAIN HARNESS
75G	R	TO MAIN HARNESS
76G	R/G	TO MAIN HARNESS
77G	G	TO MAIN HARNESS
78G	W	TO MAIN HARNESS
79G	-	TO MAIN HARNESS
80G	R	TO MAIN HARNESS
81G	L	TO MAIN HARNESS
82G	R	TO MAIN HARNESS
83G	L	TO MAIN HARNESS
84G	L	TO MAIN HARNESS
85G	W/B	TO MAIN HARNESS
86G	B/R	TO MAIN HARNESS
87G	W/B	TO MAIN HARNESS
88G	P	TO MAIN HARNESS
89G	L	TO MAIN HARNESS
90G	G	TO MAIN HARNESS
91G	G	TO MAIN HARNESS
92G	V/W	TO MAIN HARNESS
93G	BR	TO MAIN HARNESS
94G	G	TO MAIN HARNESS
95G	G	TO MAIN HARNESS
96G	W	TO MAIN HARNESS
97G	R	TO MAIN HARNESS
98G	W/B	TO MAIN HARNESS
99G	BR	TO MAIN HARNESS
100G	GR/W	TO MAIN HARNESS

Connector No.	F202
Connector Name	FUSIBLE LINK BOX RH (BATTERY)
Connector Type	24340_JA04D
Connector Color	-



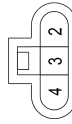
Terminal No.	Color of Wire	Signal Name
5	B	BATTERY

Connector No.	F204
Connector Name	GENERATOR (WITH CUMMINS 5.0L)
Connector Type	24340_EN013
Connector Color	-



Terminal No.	Color of Wire	Signal Name
1	B	BATTERY

Connector No.	F205
Connector Name	GENERATOR (WITH CUMMINS 5.0L)
Connector Type	HS03FB
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
2	BRW	CHARGING IND
3	G/Y	BATTERY
4	-	-


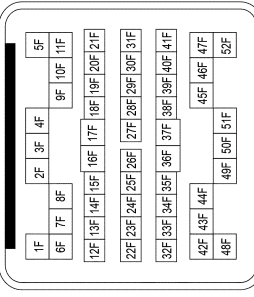
A B C D E F G H I J K L N O P PG

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

BATTERY POWER SUPPLY CONNECTORS - WITH Cummins 5.0L

Connector No.	F209
Connector Name	WIRE TO WIRE
Connector Type	RK26MGY-RS20-X6
Connector Color	GRAY


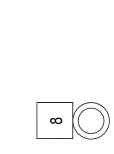



Terminal No.	Color of Wire	Signal Name
1F	Y/R	TO ENGINE ROOM HARNESS
2F	B	TO ENGINE ROOM HARNESS
3F	B/Y	TO ENGINE ROOM HARNESS
4F	W/R	TO ENGINE ROOM HARNESS
5F	B/R	TO ENGINE ROOM HARNESS
6F	O/L	TO ENGINE ROOM HARNESS
7F	GR	TO ENGINE ROOM HARNESS
8F	P	TO ENGINE ROOM HARNESS
9F	BR/W	TO ENGINE ROOM HARNESS
10F	G/Y	TO ENGINE ROOM HARNESS
11F	L/W	TO ENGINE ROOM HARNESS
12F	R/W	TO ENGINE ROOM HARNESS
13F	G/Y	TO ENGINE ROOM HARNESS
14F	V/W	TO ENGINE ROOM HARNESS
15F	LG	TO ENGINE ROOM HARNESS
16F	R/Y	TO ENGINE ROOM HARNESS
17F	BR/Y	TO ENGINE ROOM HARNESS
18F	R	TO ENGINE ROOM HARNESS
19F	V	TO ENGINE ROOM HARNESS
20F	BR	TO ENGINE ROOM HARNESS
21F	L/R	TO ENGINE ROOM HARNESS
22F	L/G	TO ENGINE ROOM HARNESS
23F	SB	TO ENGINE ROOM HARNESS
24F	W/L	TO ENGINE ROOM HARNESS
25F	W/B	TO ENGINE ROOM HARNESS
26F	B/Y	TO ENGINE ROOM HARNESS
27F	Y	TO ENGINE ROOM HARNESS
28F	W/R	TO ENGINE ROOM HARNESS
29F	L/O	TO ENGINE ROOM HARNESS
30F	B	TO ENGINE ROOM HARNESS
31F	B	TO ENGINE ROOM HARNESS
32F	V	TO ENGINE ROOM HARNESS
33F	BG	TO ENGINE ROOM HARNESS

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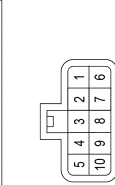
34F	L/R	TO ENGINE ROOM HARNESS
35F	R/W	TO ENGINE ROOM HARNESS
36F	L/B	TO ENGINE ROOM HARNESS
37F	L/O	TO ENGINE ROOM HARNESS
38F	Y/W	TO ENGINE ROOM HARNESS
39F	R/Y	TO ENGINE ROOM HARNESS
40F	G/B	TO ENGINE ROOM HARNESS
41F	W	TO ENGINE ROOM HARNESS
42F	Y	TO ENGINE ROOM HARNESS
43F	B/P	TO ENGINE ROOM HARNESS
44F	Y/B	TO ENGINE ROOM HARNESS
45F	L/Y	TO ENGINE ROOM HARNESS
46F	O	TO ENGINE ROOM HARNESS
47F	W/L	TO ENGINE ROOM HARNESS
48F	L	TO ENGINE ROOM HARNESS
49F	BR	TO ENGINE ROOM HARNESS
50F	SHIELD	TO ENGINE ROOM HARNESS
51F	L	TO ENGINE ROOM HARNESS
52F	BR	TO ENGINE ROOM HARNESS

Connector No.	F210
Connector Name	FUSIBLE LINK BOX RH (BATTERY)
Connector Type	24340_79907
Connector Color	-

Terminal No.	B	B
Color of Wire	B	B
Signal Name	BATTERY	BATTERY


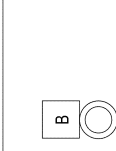
Connector No.	F212
Connector Name	TRANSMISSION RANGE SWITCH
Connector Type	HS10FB
Connector Color	BLACK

Terminal No.	Color of Wire	Signal Name


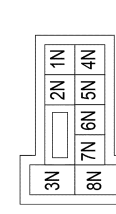
1	L/W	RANGE SIGNAL C
2	P	RANGE SIGNAL B
3	R/Y	IGNITION
4	GR	RANGE SIGNAL PA
5	Y/R	RANGE SIGNAL A
6	O/L	BATTERY
7	R	REVERSE RELAY CONT
8	B/R	NP SW
9	BR/Y	IGNITION RELAY

Connector No.	F227
Connector Name	STARTER MOTOR
Connector Type	24340-JA04D
Connector Color	-


Terminal No.	B	B
Color of Wire	B	B
Signal Name	BATTERY	BATTERY

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	CS08FW-M2
Connector Color	WHITE

Terminal No.	Color of Wire	Signal Name
1N	O	IGN
2N	W	BATTERY
3N	W	IGNITION
4N	V	BATTERY
5N	Y	BATTERY
6N	W	BATTERY
7N	L	ACC RELAY OUT
8N	W	IGNITION


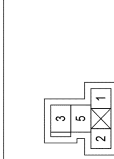
Connector No.	M4
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FW-CS
Connector Color	WHITE



7P	6P	5P	4P	3P	2P	1P
16P	15P	14P	13P	12P	11P	10P
9P	8P	7P	6P	5P	4P	3P

Terminal No.	Color of Wire	Signal Name
1P	R	IGNITION
2P	Y	IGNITION
3P	G	IGNITION RELAY OUT
4P	B/W	RR DEF RLY
5P	B/W	RR DEF RLY
6P	O	RR DEF RLY OUT
7P	G	IGNITION
8P	W	IGNITION
9P	L	BATTERY
10P	-	-
11P	-	-
12P	-	-
13P	R	BATTERY
14P	Y	BATTERY
15P	Y/LG	BATTERY
16P	W	BLOWER FAN RELAY OUT

Connector No.	M11
Connector Name	HEATED STEERING RELAY
Connector Type	MS02FL-M2-LC
Connector Color	BLUE

Terminal No.	Color of Wire	Signal Name
1	W	BATTERY
2	P	STEERING WHEEL HEATER CONT
3	W	BATTERY
5	R	ACC POWER

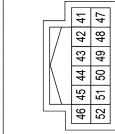
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

BATTERY POWER SUPPLY CONNECTORS - WITH Cummins 5.0L

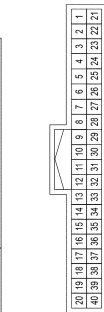
39	B/R	SHIFT N/P
40	-	-

Connector No.	M25
Connector Name	COMBINATION METER (WITH TYPE A)
Connector Type	TH12FW-NH
Connector Color	WHITE



H.S.

Connector No.	M18
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FG-NH
Connector Color	GREEN



H.S.

Terminal No.	Color of Wire	Signal Name
1	G	ENG START SW NO ESCL
2	-	-
3	R	ALL POWER SUPPLY SV
4	W/R	ALL SIGNAL
5	-	-
6	-	-
7	-	-
8	-	-
9	-	-
10	SB	COMBI SW IN 5
11	G/Y	COMBI SW IN 4
12	Y	COMBI SW IN 3
13	G/B	COMBI SW IN 2
14	V	COMBI SW IN 1
15	-	-
16	-	-
17	P	GND RF A/L
18	V	SECURITY INDICATOR
19	-	-
20	R	SHIFT P
21	R/W	STEP LAMP CONT
22	-	-
23	Y	AIRCON SW
24	-	-
25	W	BRAKE SW FUSE
26	L	SHORT IN PIN INPUT
27	R/G	BRAKE SW LAMP
28	-	-
29	W	BLOWER FAN SW
30	P	DR DOOR LOCK STATUS
31	-	-
32	Y	REAR DEFOGGET SW
33	-	-
34	-	-
35	R/G	REVERSE SW
36	W/B	HAZARD SW
37	-	-
38	-	-

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Terminal No.	Color of Wire	Signal Name
41	W	IGN
42	R	BAT
43	Y/V	FUEL SENSOR GND
44	GR	ILL CONT OUTPUT
45	P	CAN-L
46	L	CAN-H
47	B	GT
48	BRY	FUEL SENSOR
49	-	-
50	-	-
51	LG	M CAN-L
52	SB	M CAN-H

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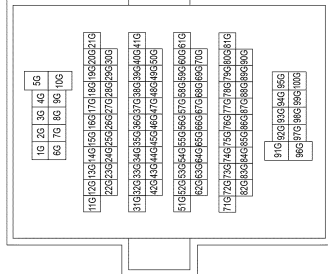
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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

BATTERY POWER SUPPLY CONNECTORS - WITH Cummins 5.0L

Connector No.	M31
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4
Connector Color	WHITE



25G	R/W	TO ENGINE ROOM HARNESS
26G	R	TO ENGINE ROOM HARNESS
27G	LG	TO ENGINE ROOM HARNESS
28G	G/B	TO ENGINE ROOM HARNESS
29G	G/B	TO ENGINE ROOM HARNESS
30G	BRY	TO ENGINE ROOM HARNESS
31G	R	TO ENGINE ROOM HARNESS
32G	Y/L	TO ENGINE ROOM HARNESS
33G	G/R	TO ENGINE ROOM HARNESS
34G	G/R	TO ENGINE ROOM HARNESS
35G	G	TO ENGINE ROOM HARNESS
36G	SB	TO ENGINE ROOM HARNESS
37G	R/W	TO ENGINE ROOM HARNESS
38G	BR	TO ENGINE ROOM HARNESS
39G	BR	TO ENGINE ROOM HARNESS
40G	-	TO ENGINE ROOM HARNESS
41G	R/G	TO ENGINE ROOM HARNESS
42G	O	TO ENGINE ROOM HARNESS
43G	G	TO ENGINE ROOM HARNESS
44G	R/Y	TO ENGINE ROOM HARNESS
45G	G	TO ENGINE ROOM HARNESS
46G	LG	TO ENGINE ROOM HARNESS
47G	R	TO ENGINE ROOM HARNESS
48G	W	TO ENGINE ROOM HARNESS
49G	-	TO ENGINE ROOM HARNESS
50G	BR	TO ENGINE ROOM HARNESS
51G	R	TO ENGINE ROOM HARNESS
52G	L	TO ENGINE ROOM HARNESS
53G	W	TO ENGINE ROOM HARNESS
54G	W	TO ENGINE ROOM HARNESS
55G	G	TO ENGINE ROOM HARNESS
56G	W	TO ENGINE ROOM HARNESS
57G	Y	TO ENGINE ROOM HARNESS
58G	BG	TO ENGINE ROOM HARNESS
59G	BG	TO ENGINE ROOM HARNESS
60G	BG	TO ENGINE ROOM HARNESS
61G	O	TO ENGINE ROOM HARNESS
62G	W	TO ENGINE ROOM HARNESS
63G	O	TO ENGINE ROOM HARNESS
64G	W/L	TO ENGINE ROOM HARNESS
65G	W/R	TO ENGINE ROOM HARNESS
66G	BG	TO ENGINE ROOM HARNESS
67G	O	TO ENGINE ROOM HARNESS
68G	B	TO ENGINE ROOM HARNESS
69G	Y	TO ENGINE ROOM HARNESS
70G	L	TO ENGINE ROOM HARNESS
71G	R/W	TO ENGINE ROOM HARNESS
72G	L/W	TO ENGINE ROOM HARNESS
73G	SHIELD	TO ENGINE ROOM HARNESS
74G	W	TO ENGINE ROOM HARNESS
75G	R	TO ENGINE ROOM HARNESS
76G	R/G	TO ENGINE ROOM HARNESS
77G	BG	TO ENGINE ROOM HARNESS

Terminal No.	Color of Wire	Signal Name
1G	G	TO ENGINE ROOM HARNESS
2G	B/R	TO ENGINE ROOM HARNESS
3G	W	TO ENGINE ROOM HARNESS
4G	BR/W	TO ENGINE ROOM HARNESS
5G	BR	TO ENGINE ROOM HARNESS
6G	R/W	TO ENGINE ROOM HARNESS
7G	Y	TO ENGINE ROOM HARNESS
8G	G	TO ENGINE ROOM HARNESS
9G	R	TO ENGINE ROOM HARNESS
10G	W	TO ENGINE ROOM HARNESS
11G	R/G	TO ENGINE ROOM HARNESS
12G	W/B	TO ENGINE ROOM HARNESS
13G	BR	TO ENGINE ROOM HARNESS
14G	Y/B	TO ENGINE ROOM HARNESS
15G	G/W	TO ENGINE ROOM HARNESS
16G	G	TO ENGINE ROOM HARNESS
17G	O	TO ENGINE ROOM HARNESS
18G	G/Y	TO ENGINE ROOM HARNESS
19G	Y/W	TO ENGINE ROOM HARNESS
20G	G/Y	TO ENGINE ROOM HARNESS
21G	B/Y	TO ENGINE ROOM HARNESS
22G	G/R	TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L)
22G	G/Y	TO ENGINE ROOM HARNESS - (WITH VK56VD)
23G	Y/R	TO ENGINE ROOM HARNESS
24G	G/B	TO ENGINE ROOM HARNESS

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
76G	P	TO ENGINE ROOM HARNESS
79G	-	TO ENGINE ROOM HARNESS
80G	R	TO ENGINE ROOM HARNESS
81G	L	TO ENGINE ROOM HARNESS
82G	R	TO ENGINE ROOM HARNESS
83G	L	TO ENGINE ROOM HARNESS
84G	L	TO ENGINE ROOM HARNESS
85G	W	TO ENGINE ROOM HARNESS
86G	B/R	TO ENGINE ROOM HARNESS
87G	W	TO ENGINE ROOM HARNESS
88G	G	TO ENGINE ROOM HARNESS
89G	P	TO ENGINE ROOM HARNESS
90G	G	TO ENGINE ROOM HARNESS
91G	P	TO ENGINE ROOM HARNESS
92G	V/W	TO ENGINE ROOM HARNESS
93G	BR	TO ENGINE ROOM HARNESS
94G	B	TO ENGINE ROOM HARNESS
95G	G	TO ENGINE ROOM HARNESS
96G	R	TO ENGINE ROOM HARNESS
97G	R	TO ENGINE ROOM HARNESS
98G	W/B	TO ENGINE ROOM HARNESS
99G	R	TO ENGINE ROOM HARNESS
100G	GR/W	TO ENGINE ROOM HARNESS

Connector No.	M37
Connector Name	FUSE BLOCK (J/B)
Connector Type	L01FW-MC
Connector Color	WHITE


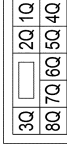
Terminal No.	Color of Wire	Signal Name
1S	W	BATTERY

Connector No.	M38
Connector Name	FUSE BLOCK (J/B)
Connector Type	M01FW-LC
Connector Color	WHITE

Terminal No.	Color of Wire	Signal Name
1L	L	BATTERY

Connector No.	M39
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS08FW-CS
Connector Color	WHITE

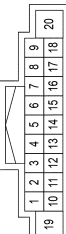
Terminal No.	Color of Wire	Signal Name
1Q	-	-
2Q	O/L	IGNITION
3Q	-	-
4Q	-	-
5Q	-	-
6Q	R/W	BATTERY
7Q	R/W	IGNITION
8Q	-	-

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

BATTERY POWER SUPPLY CONNECTORS - WITH Cummins 5.0L


Connector No.	M43
Connector Name	AV CONTROL UNIT (WITH AUDIO AMPLIFIER)
Connector Type	NH18FW-CS2
Connector Color	WHITE



H.S.

3T	R	RR DEF RLY
4T	G	BATTERY
5T	-	-
6T	-	-

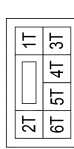
Connector No.	M66
Connector Name	WIRE TO WIRE
Connector Type	L02FB-MC
Connector Color	BLACK



H.S.

Terminal No.	Color of Wire	Signal Name
1	G/W	AMP ON
2	L	FR SP LH+
3	W	FR SP LH-
4	L	RR SP LH+
5	BR	RR SP LH-
6	-	-
7	R	ACC
8	L	CAN-H
9	L	ILL (+)
10	SHIELD	PRE AMP SHIELD
11	B	FR SP RH+
12	Y	FR SP RH-
13	B/W	RR SP RH+
14	P	RR SP RH-
15	-	-
16	-	-
17	P	CAN-L
18	G	SPEED SIG
19	W	BAT
20	B	GND


Connector No.	M60
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS06FW-CS
Connector Color	WHITE



H.S.

Terminal No.	1T	Signal Name
2T	SB	BATTERY


Connector No.	M70
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FB-CS
Connector Color	BROWN



H.S.

Terminal No.	Color of Wire	Signal Name
1R	L	TAIL LAMP 2
2R	G/R	IGNITION
3R	Y/R	BATTERY
4R	-	-
5R	W	BATTERY
6R	G/W	ACCESSORY
7R	R	BATTERY
8R	-	-
9R	-	-
10R	W	BATTERY
11R	-	-
12R	B/G	BATTERY
13R	B	ACCESSORY
14R	G/Y	BATTERY
15R	Y	BATTERY
16R	G/R	ACCESSORY

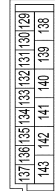
Connector No.	M73
Connector Name	BACK-UP LAMP RELAY
Connector Type	M06FBR-R-LC
Connector Color	BROWN



H.S.

Terminal No.	Color of Wire	Signal Name
1	G	GROUND
2	R	REV LAMP RELAY
3	G	IGNITION
5	G/W	REVERSE
6	W/B	BATTERY
7	Y/R	REVERSE


Connector No.	M81
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FW-FHAG-SA
Connector Color	WHITE



H.S.

Terminal No.	Color of Wire	Signal Name
129	R/G	BATTERY SAVER OUT
130	LG	SUPER LOCK/DOOR UNLOCK AS
131	W	BAT BCM FUSE
132	Y	DOOR LOCK AS/RR/L
133	BR	DOOR UNLOCK AS/RR/L
134	B	GND2
135	O	DOOR LOCK DR/AS/FL
136	L	ROOM LAMP CONT
137	V	DOOR UNLOCK DR/AS/FL
138	V	BAT REAR DOOR
139	W	BAT-POWER F/L
140	LG	P/W POWER SUPPLY IGN
141	V	P/W POWER SUPPLY BAT
142	Y	BAT FRONT DOOR
143	B	GND1

Connector No.	M82
Connector Name	CIRCUIT BREAKER-1
Connector Type	M02FW-LC
Connector Color	WHITE



H.S.

Terminal No.	Color of Wire	Signal Name
1	L/B	BATTERY
2	W	BATTERY



A B C D E F G H I J K L M N O P PG

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >



BATTERY POWER SUPPLY CONNECTORS - WITH Cummins 5.0L

Connector No.	M88
Connector Name	ACCESSORY RELAY-2
Connector Type	MS02FL-M2-LC
Connector Color	BLUE


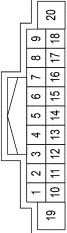
Terminal No.	Color of Wire	Signal Name
1	B	GND
2	L	ACC RELAY OUT
3	R	ACC SW
5	W	BATTERY

Connector No.	M96
Connector Name	TRAILER TOW RELAY 1
Connector Type	MS02FL-M2-LC
Connector Color	BLUE



Terminal No.	Color of Wire	Signal Name
1	L	IGNITION
2	B	GND
3	R	IGNITION
4	-	-
5	BR	BATTERY

Connector No.	M97
Connector Name	AV CONTROL UNIT (WITHOUT AUDIO AMPLIFIER)
Connector Type	NH18FW-CS2
Connector Color	WHITE

Terminal No.	Color of Wire	Signal Name
1	-	-
2	L/W	FR SP LH-
3	L/R	FR SP LH-
4	SB	RR SP LH-
5	B/Y	RR SP LH-
6	-	-
7	R	ACC
8	L	CAN-H
9	L	ILL(+)
10	-	-
11	W/B	FR SP RH-
12	L/B	FR SP RH-
13	O/L	RR SP RH-
14	R/L	RR SP RH-
15	-	-
16	-	-
17	P	CAN-L
18	G	SPEED SIG
19	W	BAT
20	B	GND


Connector No.	M99
Connector Name	CLIMATE CONTROLLED SEAT RELAY
Connector Type	M06FBR-R-LC
Connector Color	BROWN

Terminal No.	Color of Wire	Signal Name
1	B	GND
2	G/R	IGNITION
3	W	IGNITION
5	R	BATTERY
6	G	IGNITION
7	P	BATTERY



1	B	GND
2	G/R	IGNITION
3	W	IGNITION
5	R	BATTERY
6	G	IGNITION
7	P	BATTERY

Connector No.	M112
Connector Name	AUDIO AMP.
Connector Type	TH08FW-NH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	Y	BAT
2	W	WOOFER 1+
3	BR/W	WOOFER 2+
4	B	GND
17	Y/LG	BAT
18	B	WOOFER 1-
19	BR	WOOFER 2-
20	B	GND

Connector No.	M126
Connector Name	HEATED SEAT RELAY
Connector Type	M06FBR-R-LC
Connector Color	BROWN

Terminal No.	Color of Wire	Signal Name
1	B	GND
2	G/R	IGNITION
3	W	IGNITION
5	R	BATTERY
6	G	IGNITION
7	P	BATTERY

Connector No.	M150
Connector Name	CARGO LAMP RELAY
Connector Type	MS02FL-M2-LC
Connector Color	BLUE

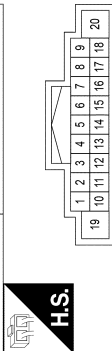
Terminal No.	Color of Wire	Signal Name
1	R/Y	CARGO BED LAMP
2	G	BATTERY
3	LG	ACCESSORY
5	G	BATTERY

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

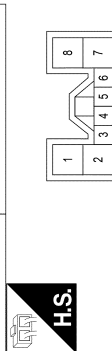
BATTERY POWER SUPPLY CONNECTORS - WITH Cummins 5.0L

Connector No.	M171
Connector Name	AUDIO UNIT
Connector Type	NH18FW-CS2
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	-	-
2	L/W	FR SP LH+
3	L/R	FR SP LH-
4	SB	RR SP LH+
5	B/Y	RR SP LH-
6	-	-
7	R	ACC
8	GR	ILL (-)
9	L	ILL (+)
10	-	-
11	W/B	FR SP RH+
12	L/B	RR SP RH-
13	O/L	RR SP RH+
14	R/L	RR SP RH-
15	-	-
16	-	-
17	-	-
18	G	SPEED SIGNAL
19	W	BAT
20	B	GND

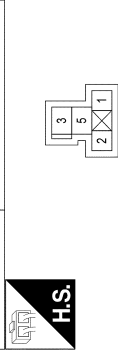
Connector No.	M174
Connector Name	TRAILER BRAKE CONTROL UNIT
Connector Type	TB04FW-TM4
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	B	GND
2	BR/W	TRAILER BRAKE

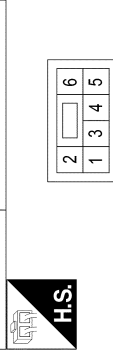
3	L	ILLUMINATION +
4	GR	ILLUMINATION -
5	G	IGNITION
7	R	BATTERY
8	R/G	STOP LAMP OUT

Connector No.	M186
Connector Name	CONSOLE POWER SOCKET RELAY
Connector Type	MS02FL-M2-LC
Connector Color	BLUE



Terminal No.	Color of Wire	Signal Name
1	B	GND
2	L	ACC OUT
3	G	IGNITION
5	G/Y	IGNITION

Connector No.	M190
Connector Name	ELECTRIC BRAKE (PRE-WIRING)
Connector Type	NS06FW-CS
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	B	GND
2	R/G	STOP LAMP SW
3	BR/W	TRAILER BRAKE
4	L	ILLUMINATION +
5	R	BATTERY

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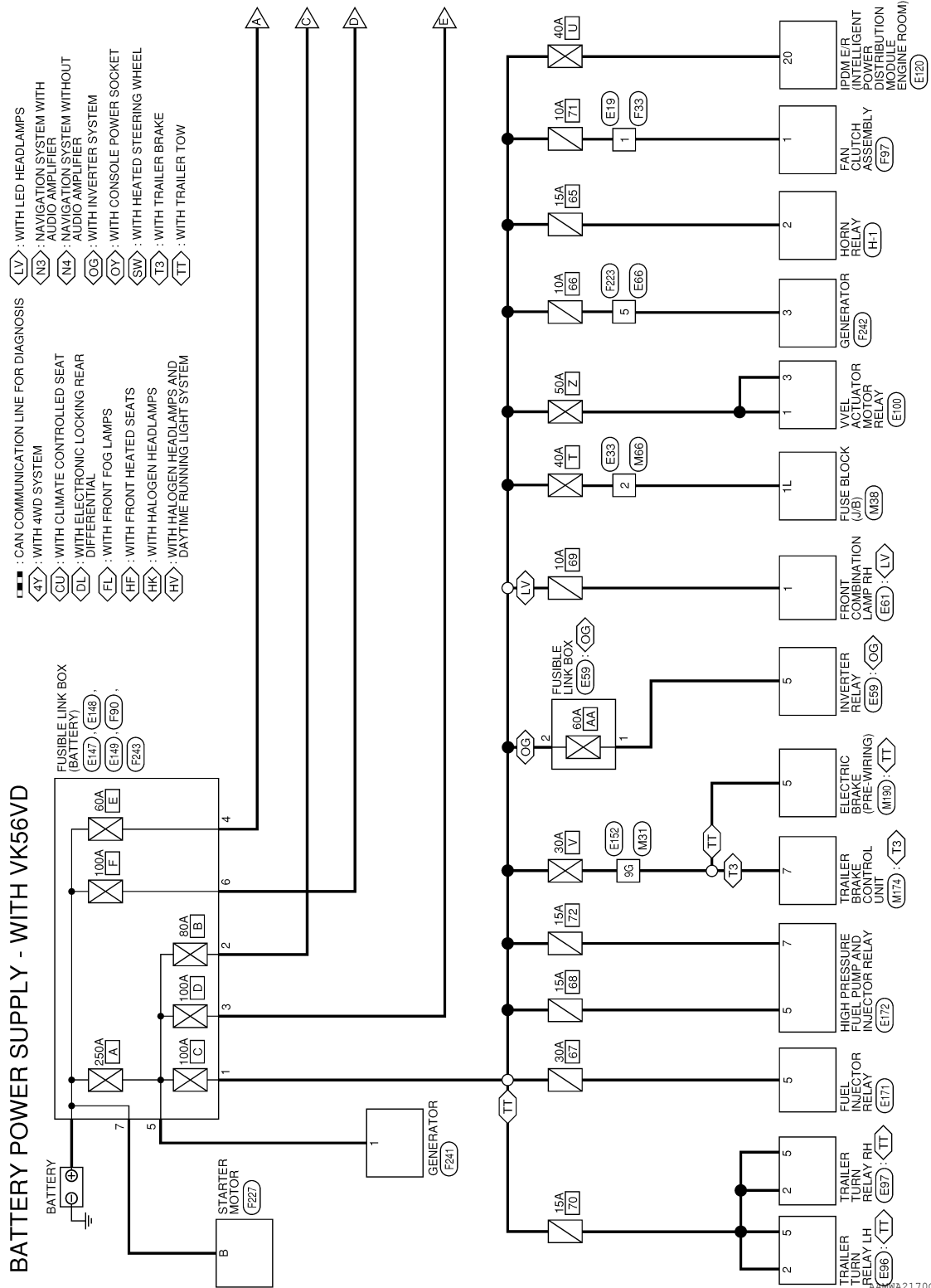
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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - BATTERY POWER SUPPLY - WITH VK56VD -

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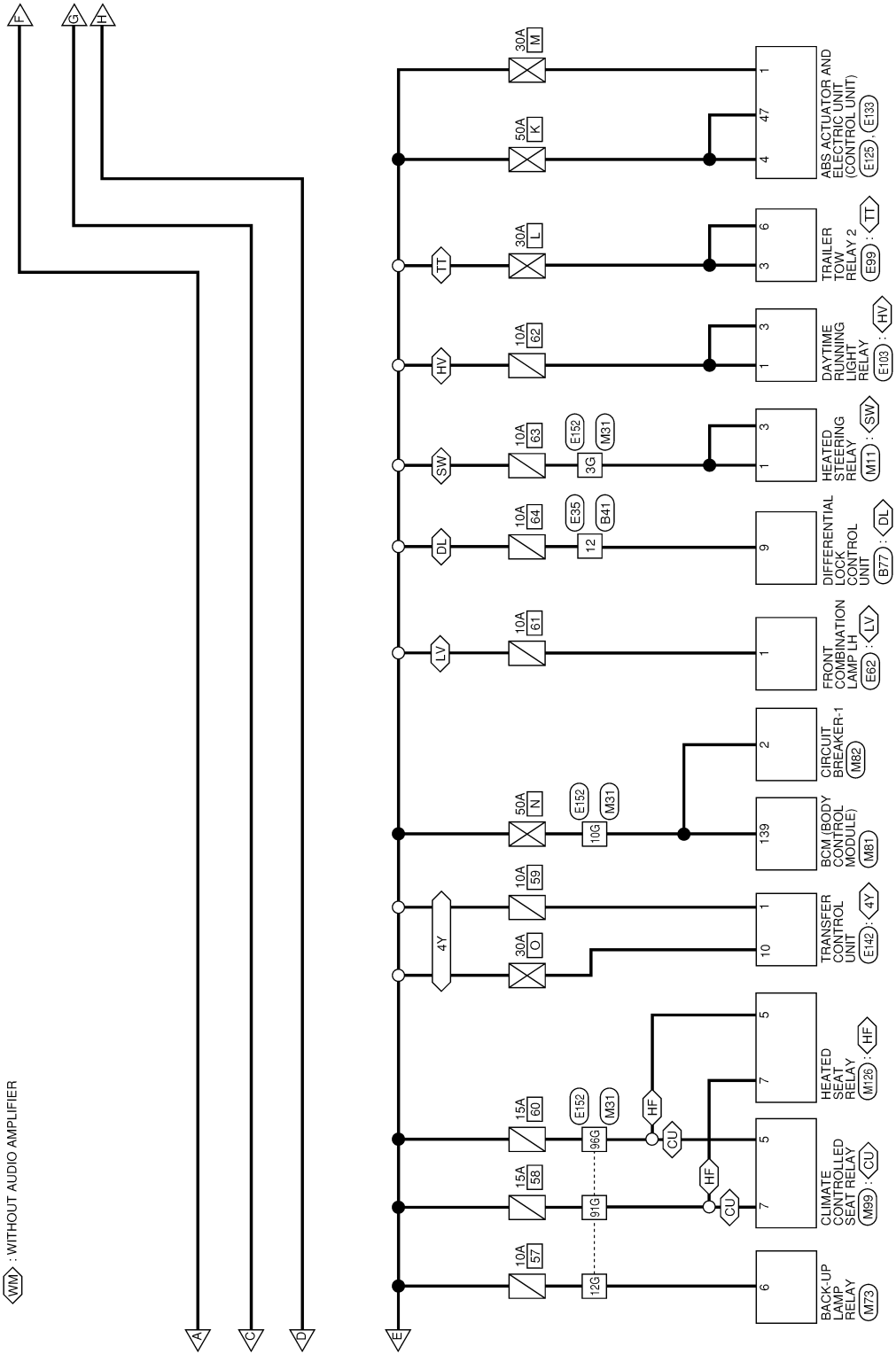


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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

V2 : WITH VK66VD AND WITH DRIVER ASSISTANCE SYSTEM
 V3 : WITH VK66VD AND WITHOUT DRIVER ASSISTANCE SYSTEM
 WA : WITH AUDIO AMPLIFIER
 WM : WITHOUT AUDIO AMPLIFIER

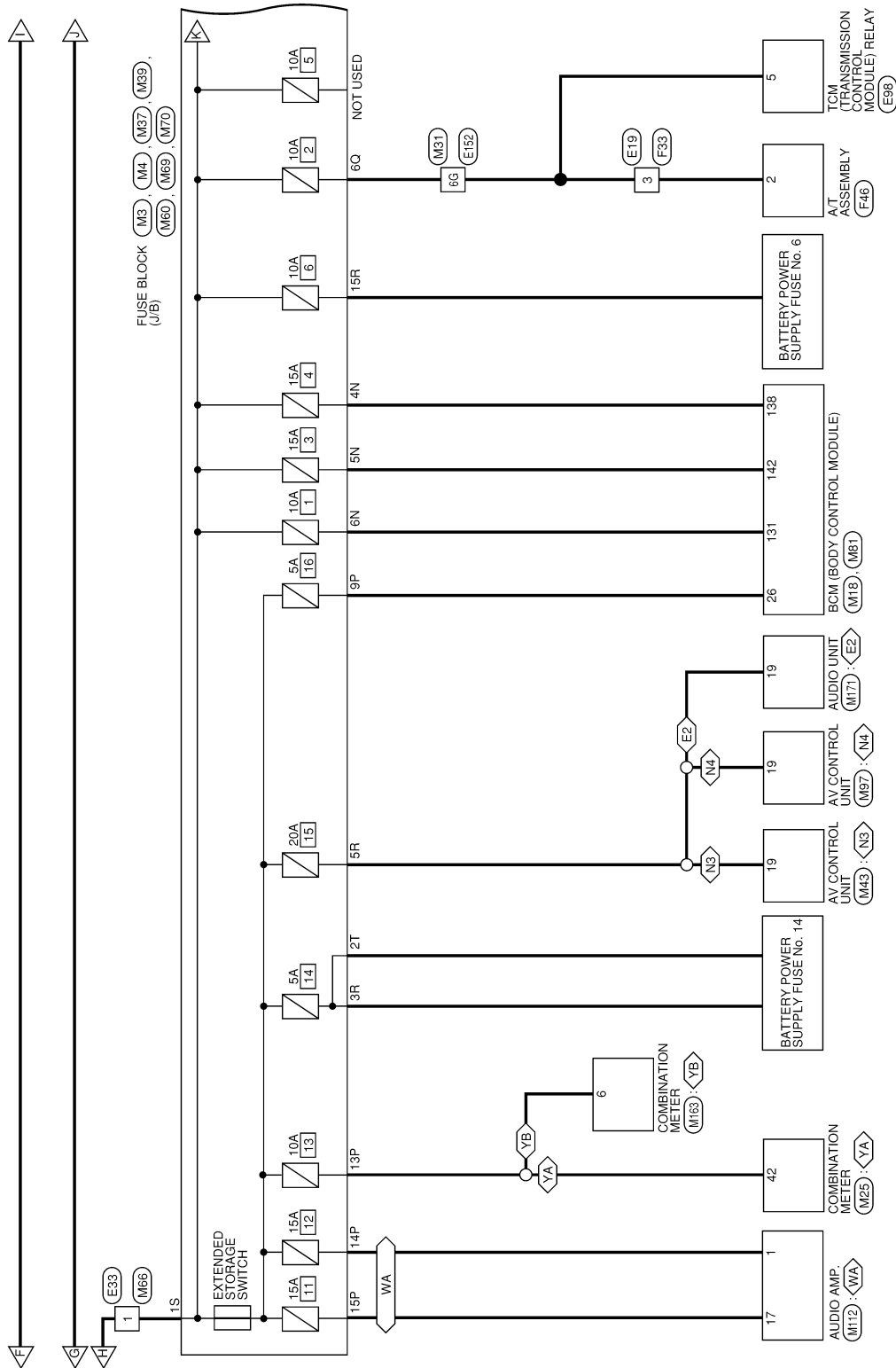


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POWER SUPPLY ROUTING CIRCUIT

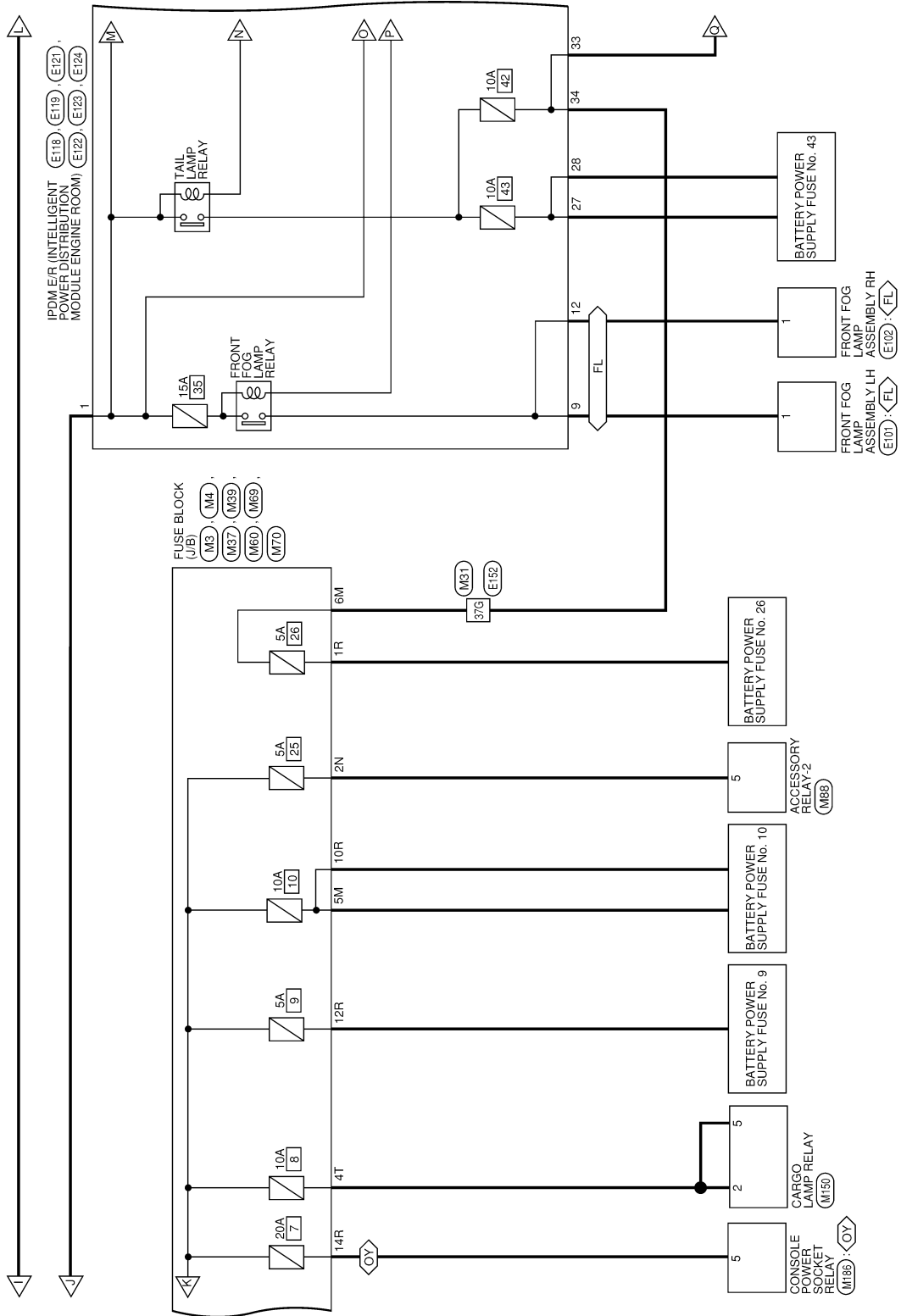
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POWER SUPPLY ROUTING CIRCUIT

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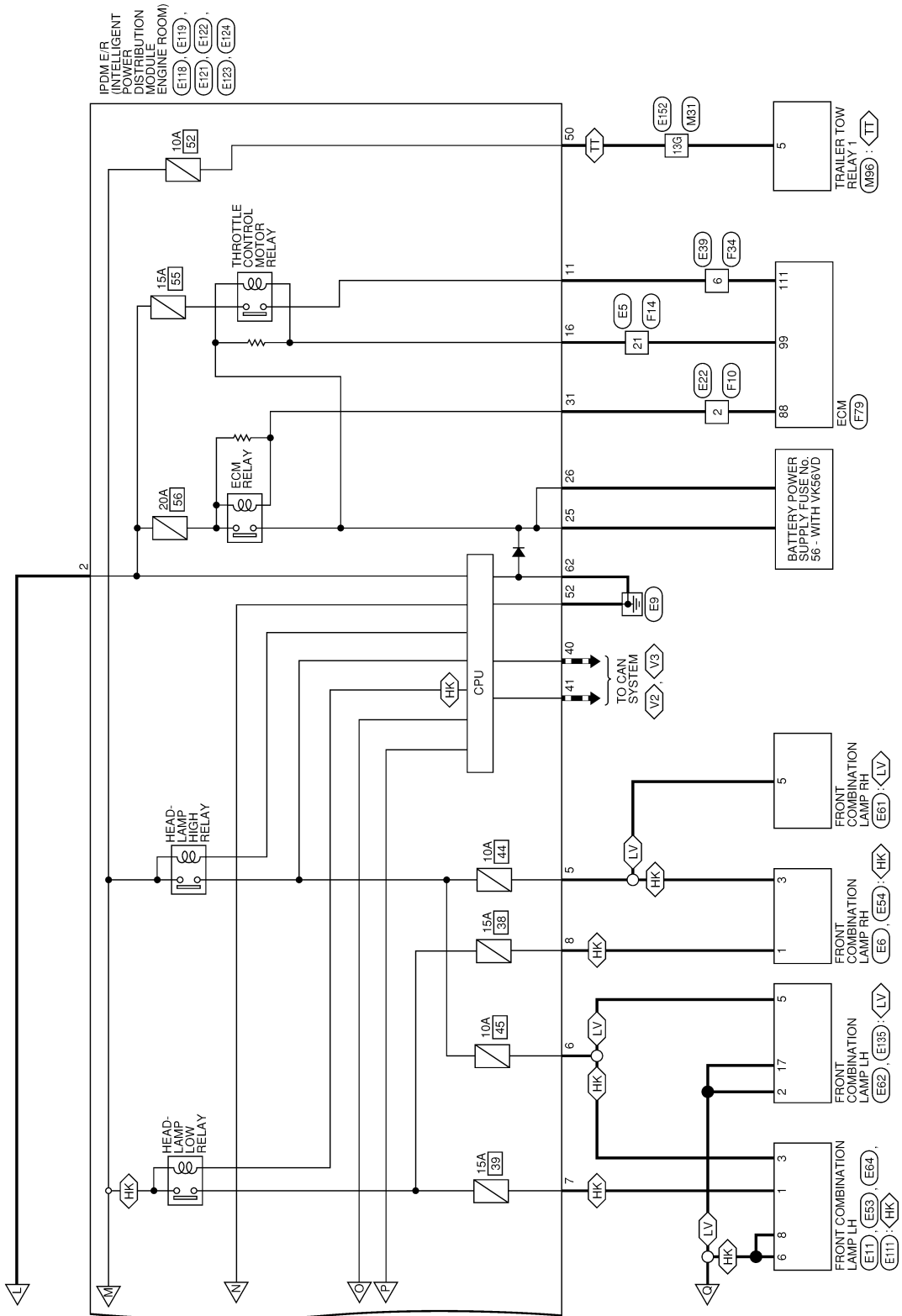
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POWER SUPPLY ROUTING CIRCUIT

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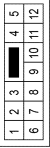
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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >



BATTERY POWER SUPPLY CONNECTORS - WITH VK56VD

Connector No.	B41
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS
Connector Color	WHITE

Terminal No.	Color of Wire	Signal Name
1	Y	TO ENGINE ROOM HARNESS
2	V	TO ENGINE ROOM HARNESS
3	L	TO ENGINE ROOM HARNESS
4	L/G	TO ENGINE ROOM HARNESS
5	R/G	TO ENGINE ROOM HARNESS
6	SB	TO ENGINE ROOM HARNESS
7	P	TO ENGINE ROOM HARNESS
8	L	TO ENGINE ROOM HARNESS
9	SHIELD	TO ENGINE ROOM HARNESS
10	W/G	TO ENGINE ROOM HARNESS
11	L	TO ENGINE ROOM HARNESS
12	BR	TO ENGINE ROOM HARNESS

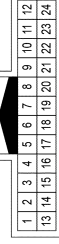
Connector No.	B77
Connector Name	DIFFERENTIAL LOCK CONTROL UNIT
Connector Type	TH16FW-NH
Connector Color	WHITE

Terminal No.	Color of Wire	Signal Name
1	Y	SOLENOID (+)
2	V	SOLENOID (-)
3	-	-
4	-	-
5	G/O	DIFF LOCK ON SW
6	-	-
7	P	IGN
8	L	CAN-H
9	BR	SOL BATT
10	B	GND


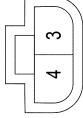
11	B	GND
12	L	DIFF LOCK POSITION SW
13	-	-
14	O	DIFF LOCK OFF SW
15	Y/R	VBATT
16	R	CAN-L

Connector No.	E5
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE


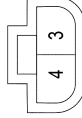
Terminal No.	Color of Wire	Signal Name
1	L/R	TO ENGINE CONTROL HARNESS
2	BR	TO ENGINE CONTROL HARNESS
3	V	TO ENGINE CONTROL HARNESS
4	L/O	TO ENGINE CONTROL HARNESS
5	W	TO ENGINE CONTROL HARNESS
6	B/R	TO ENGINE CONTROL HARNESS
7	Y/R	TO ENGINE CONTROL HARNESS
8	BR	TO ENGINE CONTROL HARNESS
9	W/L	TO ENGINE CONTROL HARNESS
10	L/Y	TO ENGINE CONTROL HARNESS
11	SB	TO ENGINE CONTROL HARNESS
12	L	TO ENGINE CONTROL HARNESS
13	W/R	TO ENGINE CONTROL HARNESS
14	Y	TO ENGINE CONTROL HARNESS
15	B	TO ENGINE CONTROL HARNESS
16	B	TO ENGINE CONTROL HARNESS
17	R	TO ENGINE CONTROL HARNESS
18	B	TO ENGINE CONTROL HARNESS
19	B/R	TO ENGINE CONTROL HARNESS
20	GR	TO ENGINE CONTROL HARNESS
21	V/R	TO ENGINE CONTROL HARNESS
22	B	TO ENGINE CONTROL HARNESS
23	B	TO ENGINE CONTROL HARNESS
24	P	TO ENGINE CONTROL HARNESS

Connector No.	E6
Connector Name	FRONT COMBINATION LAMP RH (WITH HALOGEN HEADLAMPS)
Connector Type	NU02FB
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
3	L/W	HIGH BEAM
4	B	GND

Connector No.	E11
Connector Name	FRONT COMBINATION LAMP LH (WITH HALOGEN HEADLAMPS)
Connector Type	NU02FB
Connector Color	BLACK


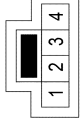
Terminal No.	Color of Wire	Signal Name
3	G	HIGH BEAM
4	B	GND

Connector No.	E13
Connector Name	FUSE AND FUSIBLE LINK BOX
Connector Type	L02MB-MC
Connector Color	BLACK

Terminal No.	Color of Wire	Signal Name
1	W	BATTERY
2	R	BATTERY

Connector No.	E19
Connector Name	WIRE TO WIRE
Connector Type	NS04MW-CS
Connector Color	WHITE

Terminal No.	Color of Wire	Signal Name
1	L	TO ENGINE CONTROL HARNESS
2	W	TO ENGINE CONTROL HARNESS
3	P	TO ENGINE CONTROL HARNESS
4	SB	TO ENGINE CONTROL HARNESS


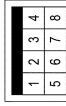
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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >



BATTERY POWER SUPPLY CONNECTORS - WITH VK56VD

Connector No.	E22
Connector Name	WIRE TO WIRE
Connector Type	M08MB-LC
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	V	TO ENGINE CONTROL HARNESS
2	L	TO ENGINE CONTROL HARNESS
3	W	TO ENGINE CONTROL HARNESS
4	L	TO ENGINE CONTROL HARNESS
5	-	TO ENGINE CONTROL HARNESS
6	L/Y	TO ENGINE CONTROL HARNESS
7	W/L	TO ENGINE CONTROL HARNESS
8	R	TO ENGINE CONTROL HARNESS

Connector No.	E33
Connector Name	WIRE TO WIRE
Connector Type	L02MB-MC
Connector Color	BLACK


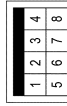
Terminal No.	Color of Wire	Signal Name
1	W	TO MAIN HARNESS
2	L	TO MAIN HARNESS

Connector No.	E35
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	Y	TO BODY HARNESS
2	V	TO BODY HARNESS
3	L	TO BODY HARNESS
4	W	TO BODY HARNESS
5	R/G	TO BODY HARNESS
6	SB	TO BODY HARNESS
7	P	TO BODY HARNESS
8	L	TO BODY HARNESS
9	SHIELD	TO BODY HARNESS
10	B	TO BODY HARNESS
11	R	TO BODY HARNESS
12	BR	TO BODY HARNESS

Connector No.	E39
Connector Name	WIRE TO WIRE
Connector Type	M08MW-GY-LC
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
1	B	TO ENGINE CONTROL HARNESS
2	B	TO ENGINE CONTROL HARNESS
3	B	TO ENGINE CONTROL HARNESS
4	W/R	TO ENGINE CONTROL HARNESS
5	P	TO ENGINE CONTROL HARNESS
6	O	TO ENGINE CONTROL HARNESS
7	SB	TO ENGINE CONTROL HARNESS
8	R	TO ENGINE CONTROL HARNESS

Connector No.	E53
Connector Name	FRONT COMBINATION LAMP LH (WITH HALOGEN HEADLAMPS)
Connector Type	FHZ02FB
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	L	LOW BEAM
2	B	GND

Connector No.	E54
Connector Name	FRONT COMBINATION LAMP RH (WITH HALOGEN HEADLAMPS)
Connector Type	FHZ02FB
Connector Color	BLACK

Terminal No.	Color of Wire	Signal Name
1	R/Y	LOW BEAM
2	B	GND

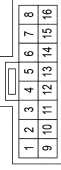
Connector No.	E59
Connector Name	INVERTER RELAY
Connector Type	24347_9F900
Connector Color	BLUE

Terminal No.	Color of Wire	Signal Name

1	SB	R/Y CONT
2	G/R	IGNITION
3	W	IGNITION
5	W	BATTERY

Connector No.	E61
Connector Name	FRONT COMBINATION LAMP RH (WITH LED HEADLAMPS)
Connector Type	MBA18FGY
Connector Color	GRAY



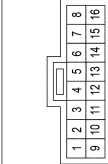
Terminal No.	Color of Wire	Signal Name
1	R	IGNITION
2	R/L	PARK POWER
3	BR	DAYTIME RUNNING LAMP
4	R/Y	HEADLAMP LO
5	L/W	HEADLAMP HI
6	B	GND
7	B	GND
8	BR	LED HEADLAMP
9	-	-
10	-	-
11	-	-
12	-	-
13	-	-
14	-	-
15	-	-
16	-	-

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

BATTERY POWER SUPPLY CONNECTORS - WITH VK56VD

Connector No.	E62
Connector Name	FRONT COMBINATION LAMP LH (WITH LED HEADLAMPS)
Connector Type	MBA16FGY
Connector Color	GRAY



H.S.

Terminal No.	Color of Wire	Signal Name
1	R	IGNITION
2	R/L	PARK POWER
3	BR	DAYTIME RUNNING LAMP
4	L	HEADLAMP LO
5	G	HEADLAMP HI
6	B	GND
7	B	GND
8	W	LED HI/LAMP LH
9	-	-
10	-	-
11	-	-
12	-	-
13	-	-
14	-	-
15	-	-
16	-	-

Connector No.	E64
Connector Name	FRONT COMBINATION LAMP LH (WITH HALOGEN HEADLAMPS)
Connector Type	AB03FY
Connector Color	YELLOW

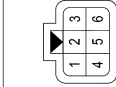


H.S.

Terminal No.	Color of Wire	Signal Name
5	B	GND
6	R/L	PARKING
7	G/B	FLASHER

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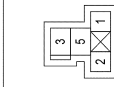
Connector No.	E66
Connector Name	WIRE TO WIRE
Connector Type	RS06FGY-PR
Connector Color	GRAY



H.S.

Terminal No.	Color of Wire	Signal Name
1	BR	TO ENGINE CONTROL NO.2 HARNESS
2	Y	TO ENGINE CONTROL NO.2 HARNESS
3	SB	TO ENGINE CONTROL NO.2 HARNESS
4	W/L	TO ENGINE CONTROL NO.2 HARNESS
5	Y/B	TO ENGINE CONTROL NO.2 HARNESS
6	L/Y	TO ENGINE CONTROL NO.2 HARNESS

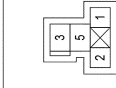
Connector No.	E96
Connector Name	TRAILER TURN RELAY LH
Connector Type	MS02FL-M2-LC
Connector Color	BLUE



H.S.

Terminal No.	Color of Wire	Signal Name
1	G/B	TRAILER LH FLASH
2	L	BATTERY
3	G/B	STOP/TURN LH (7 PIN)
5	L	BATTERY

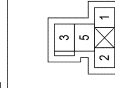
Connector No.	E97
Connector Name	TRAILER TURN RELAY RH
Connector Type	MS02FL-M2-LC
Connector Color	BLUE



H.S.

Terminal No.	Color of Wire	Signal Name
1	Y/B	TRAILER RH FLASH
2	L	BATTERY
3	Y/B	STOP/TURN RH (7 PIN)
5	L	BATTERY

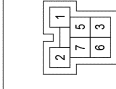
Connector No.	E98
Connector Name	TCM (TRANSMISSION CONTROL MODULE) RELAY
Connector Type	MS02FL-M2-LC
Connector Color	BLUE



H.S.

Terminal No.	Color of Wire	Signal Name
1	B	GROUND
2	BR	IGNITION RELAY CONT
3	Y/R	VIGN
5	P	BATTERY

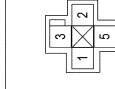
Connector No.	E99
Connector Name	TRAILER TOW RELAY 2
Connector Type	M06FBR-R-LC
Connector Color	BROWN



H.S.

Terminal No.	Color of Wire	Signal Name
1	G	RELAY CONT
2	B	GND
3	Y	BATTERY
5	W/L	POWER (7 PIN)
6	Y	BATTERY
7	W/L	POWER (7 PIN)

Connector No.	E100
Connector Name	VVEL ACTUATOR MOTOR RLY
Connector Type	24347_9F900
Connector Color	BLUE



H.S.

Terminal No.	Color of Wire	Signal Name
1	W	BATTERY
2	BR/Y	M RLY
3	W	BATTERY
5	R	IGNITION

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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

BATTERY POWER SUPPLY CONNECTORS - WITH VK56VD

Connector No.	E101
Connector Name	FRONT FOG LAMP ASSEMBLY LH
Connector Type	FHZ02FB
Connector Color	BLACK



H.S.

Terminal No.	Color of Wire	Signal Name
1	G/W	FR FOG/LH
2	B	GND

Connector No.	E102
Connector Name	FRONT FOG LAMP ASSEMBLY RH
Connector Type	FHZ02FB
Connector Color	BLACK



H.S.

Terminal No.	Color of Wire	Signal Name
1	W/R	FR FOG/LH
2	B	GND

Connector No.	E103
Connector Name	DAYTIME RUNNING LIGHT RELAY
Connector Type	MS02FL-M2-LC
Connector Color	BLUE



H.S.

Terminal No.	Color of Wire	Signal Name
1	G	BATTERY

2	BR	DTRL RLY CONTROL
3	G	BATTERY
5	L	DTRL (+)

Connector No.	E111
Connector Name	FRONT COMBINATION LAMP LH (WITH HALOGEN HEADLAMPS)
Connector Type	RK02FBR
Connector Color	BROWN



H.S.

Terminal No.	Color of Wire	Signal Name
8	R/L	SIDE MARKER
9	B	GND

Connector No.	E118
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	L02FB-MC
Connector Color	BLACK



H.S.

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

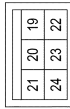
Connector No.	E119
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS16FW-CS
Connector Color	WHITE



H.S.

Terminal No.	Color of Wire	Signal Name
3	-	-
4	B/R	NP SW
5	L/W	H/LAMP HI RH
6	G	H/LAMP HI LH
7	L	H/LAMP LO LH
8	R/Y	H/LAMP LO RH
9	G/W	FR FOG/LH
10	-	-
11	P	ETC VB - (WITH CUMMINS 5.0L)
11	O	ETC VB - (WITH VK56VD)
12	W/R	FR FOGAL RH
13	Y/R	A/T ECU IGN
14	G	REVERSE LAMP IGN
15	GR	ABS ECU IGN
16	G	ETC RLY CONT - (WITH CUMMINS 5.0L)
16	V/R	ETC RLY CONT - (WITH VK56VD)
17	L/W	IGN COIL - (WITH CUMMINS 5.0L)
17	W	IGN COIL - (WITH VK56VD)
18	-	-

Connector No.	E120
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	M06FW-LC
Connector Color	WHITE



H.S.

Terminal No.	Color of Wire	Signal Name

19	W/R	STARTER MOTOR
20	L	F/L IGNSW
21	-	-
22	-	-
23	-	-
24	-	-

Connector No.	E121
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS12FBR-CS
Connector Color	BROWN



H.S.


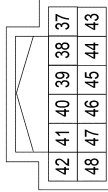
Terminal No.	Color of Wire	Signal Name
25	BR	ECM VB - (WITH CUMMINS 5.0L)
25	W	ECM VB - (WITH VK56VD)
26	V	02 SENS - (WITH VK56VD)
27	R/L	PARKING RH
28	R/L	TAIL-1
29	Y	FR WIPER HI
30	-	-
31	L	ECM RLY CONT
32	L	ECM BAT - (WITH VK56VD)
33	R/L	PARKING LH
34	R/W	TAIL-2
35	BR	FR WIPER LO
36	-	-

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >


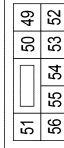
BATTERY POWER SUPPLY CONNECTORS - WITH VK56VD

Connector No.	E122
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH12FW-NH
Connector Color	WHITE

Terminal No.	Color of Wire	Signal Name
37	-	-
38	-	-
39	L/Y	WIPER AUTO STOP SW
40	P	CAN-L
41	L	CAN-H
42	BR	DTRL RLY
43	-	-
44	W/B	START CONT
45	GR	FUEL RLY CONT
46	Y	HOOD SW
47	Y	ALT C - (WITH VK56VD)
48	R/W	HORN RLY CONT



Connector No.	E123
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS08FBR-CS
Connector Color	BROWN

Terminal No.	Color of Wire	Signal Name
49	Y/B	A/C COMP - (WITH CUMMINS 5.0L)
49	GR/R	A/C COMP - (WITH VK56VD)
50	BR	TRAILER TOW
51	-	-
52	B	S-GND
53	-	-
54	-	-


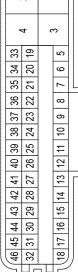
55	-	-
56	-	-

Connector No.	E124
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	M06FB-LC
Connector Color	BLACK

Terminal No.	Color of Wire	Signal Name
57	W/B	RR DEF
58	BR	FUEL PUMP - (WITH CUMMINS 5.0L)
58	B/Y	FUEL PUMP - (WITH VK56VD)
59	-	-
60	-	-
61	-	-
62	B	P GND


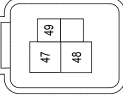
Connector No.	E125
Connector Name	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
Connector Type	SAZ42FB-SJZ4
Connector Color	BLACK

Terminal No.	Color of Wire	Signal Name
1	G	ABS SOL
2	B	GND 1
3	B	GND 2
4	W	MTR POWER 1
5	-	-
6	-	-
7	-	-
8	-	-
9	BR	YG CAN-H



Terminal No.	Color of Wire	Signal Name
10	LG	YG CAN-L
11	-	-
12	-	-
13	P/B	LBL
14	-	-
15	-	-
16	-	-
17	R/B	STP2
18	GR	IGN 1
19	V	FR SENS-
20	SB	FL SENS+
21	R	RR SENS-
22	V	RL SENS+
23	-	-
24	-	-
25	-	-
26	-	-
27	P	CAN-L
28	-	-
29	-	-
30	-	-
31	-	-
32	-	-
33	LG	FR SENS+
34	LG	FL SENS-
35	BR	RR SENS+
36	P	RL SENS-
37	R/G	STP
38	-	-
39	G	VDC OFF
40	-	-
41	L	CAN-H
42	-	-
43	G/W	HDC ON
44	-	-
45	-	-
46	W	STPO

Connector No.	E133
Connector Name	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
Connector Type	SAZ02FB-SJZ2
Connector Color	BLACK

Terminal No.	Color of Wire	Signal Name
47	W	MTR POWER 2
48	B	GND 3
49	O/L	IG 2
50	-	-

Connector No.	E135
Connector Name	FRONT COMBINATION LAMP LH (WITH LED HEADLAMPS)
Connector Type	RK02FBR
Connector Color	BROWN

Terminal No.	Color of Wire	Signal Name
17	R/L	RLY POWER
18	B	GND

A B C D E F G H I J K L N O P PG

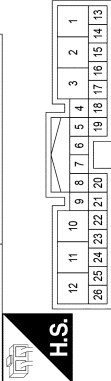
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

BATTERY POWER SUPPLY CONNECTORS - WITH VK56VD

6	W	BATTERY
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Connector No.	E142
Connector Name	TRANSFER CONTROL UNIT
Connector Type	TH20FV-TB6
Connector Color	WHITE



H.S.

Connector No.	E147
Connector Name	FUSIBLE LINK BOX (BATTERY) (WITH VK56VD)
Connector Type	L02FBR-MC
Connector Color	BROWN

H.S.



Terminal No.	Color of Wire	Signal Name
1	Y/R	ECU POWER
2	B	GND
3	B	GND
4	GR	IGN SW
5	L/O	ROTARY POSITION SENSOR 5V SUPPLY
6	Y	ROTARY POSITION SENSOR RETURN
7	-	-
8	-	-
9	Y/R	4WD SHIFT SWITCH 5V SUPPLY
10	G	MOTOR POWER
11	L	MOTOR A
12	BR	MOTOR B
13	L	CAN-H
14	P	CAN-L
15	W/R	ROTARY POSITION SENSOR INPUT
16	-	-
17	-	-
18	G/W	2WD MODE SW
19	O	4H MODE SW
20	R	4LO MODE SW
21	BR	RANGE 2 SENSOR INPUT
22	L/R	RANGE 1 SENSOR INPUT
23	V	MODE SENSOR INPUT
24	-	-
25	-	-
26	-	-

Terminal No.	Color of Wire	Signal Name
1	B/L	BATTERY
2	B/Y	BATTERY

Connector No.	E148
Connector Name	FUSIBLE LINK BOX (BATTERY) (WITH VK56VD)
Connector Type	L02FGY-MC
Connector Color	GRAY

H.S.



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

Connector No.	E149
Connector Name	FUSIBLE LINK BOX (BATTERY) (WITH VK56VD)
Connector Type	24340_EA00A
Connector Color	-

H.S.



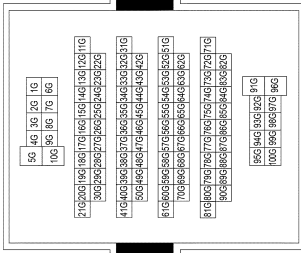
Terminal No.	Color of Wire	Signal Name
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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

BATTERY POWER SUPPLY CONNECTORS - WITH VK56VD

Connector No.	E152
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CST6-TM4
Connector Color	WHITE



72G	L/W	TO MAIN HARNESS
73G	SHIELD	TO MAIN HARNESS
74G	W	TO MAIN HARNESS
75G	R	TO MAIN HARNESS
76G	R/G	TO MAIN HARNESS
77G	G	TO MAIN HARNESS
78G	W	TO MAIN HARNESS
79G	-	TO MAIN HARNESS
80G	R	TO MAIN HARNESS
81G	L	TO MAIN HARNESS
82G	R	TO MAIN HARNESS
83G	L	TO MAIN HARNESS
84G	L	TO MAIN HARNESS
85G	W/B	TO MAIN HARNESS
86G	B/R	TO MAIN HARNESS
87G	W/B	TO MAIN HARNESS
88G	P	TO MAIN HARNESS
89G	L	TO MAIN HARNESS
90G	G	TO MAIN HARNESS
91G	G	TO MAIN HARNESS
92G	V/W	TO MAIN HARNESS
93G	BR	TO MAIN HARNESS
94G	G	TO MAIN HARNESS
95G	G	TO MAIN HARNESS
96G	W	TO MAIN HARNESS
97G	R	TO MAIN HARNESS
98G	W/B	TO MAIN HARNESS
99G	BR	TO MAIN HARNESS
100G	GR/W	TO MAIN HARNESS

Connector No.	E171
Connector Name	FUEL INJECTOR RELAY
Connector Type	MS02FL-M2-LC
Connector Color	BLUE



Terminal No.	Color of Wire	Signal Name
1	B	GND
2	V	IGNITION
3	R	VINJ1 A
5	G/W	BATTERY

24G	G/B	TO MAIN HARNESS
25G	R/W	TO MAIN HARNESS
26G	R	TO MAIN HARNESS
27G	LG	TO MAIN HARNESS
28G	G/B	TO MAIN HARNESS
29G	G/B	TO MAIN HARNESS
30G	B/Y	TO MAIN HARNESS - (WITH CUMMINS 5.0L)
31G	P	TO MAIN HARNESS - (WITH CUMMINS 5.0L)
32G	R	TO MAIN HARNESS - (WITH VK56VD)
33G	P	TO MAIN HARNESS
34G	Y/L	TO MAIN HARNESS
35G	GR	TO MAIN HARNESS
36G	G/R	TO MAIN HARNESS
37G	S/B	TO MAIN HARNESS
38G	R/W	TO MAIN HARNESS
39G	BR	TO MAIN HARNESS
40G	BR	TO MAIN HARNESS
41G	-	TO MAIN HARNESS
42G	R/G	TO MAIN HARNESS
43G	O	TO MAIN HARNESS
44G	B	TO MAIN HARNESS - (WITH CUMMINS 5.0L)
45G	G	TO MAIN HARNESS - (WITH VK56VD)
46G	R/Y	TO MAIN HARNESS
47G	G	TO MAIN HARNESS
48G	LG	TO MAIN HARNESS
49G	R	TO MAIN HARNESS
50G	W	TO MAIN HARNESS
51G	-	TO MAIN HARNESS
52G	BR	TO MAIN HARNESS
53G	L	TO MAIN HARNESS
54G	W	TO MAIN HARNESS
55G	W	TO MAIN HARNESS
56G	G	TO MAIN HARNESS
57G	W	TO MAIN HARNESS
58G	Y	TO MAIN HARNESS
59G	BG	TO MAIN HARNESS
60G	BG	TO MAIN HARNESS
61G	B	TO MAIN HARNESS
62G	W	TO MAIN HARNESS
63G	R	TO MAIN HARNESS
64G	W/L	TO MAIN HARNESS
65G	W/R	TO MAIN HARNESS
66G	BG	TO MAIN HARNESS
67G	BG	TO MAIN HARNESS
68G	B	TO MAIN HARNESS
69G	Y	TO MAIN HARNESS
70G	L	TO MAIN HARNESS
71G	R/W	TO MAIN HARNESS

Terminal No.	Color of Wire	Signal Name
1G	G	TO MAIN HARNESS
2G	B/R	TO MAIN HARNESS
3G	W/B	TO MAIN HARNESS
4G	B/W	TO MAIN HARNESS
5G	BR	TO MAIN HARNESS
6G	P	TO MAIN HARNESS - (WITH VK56VD)
6G	R/W	TO MAIN HARNESS - (WITH CUMMINS 5.0L)
7G	Y	TO MAIN HARNESS
8G	G	TO MAIN HARNESS
9G	R	TO MAIN HARNESS
10G	W	TO MAIN HARNESS
11G	R/G	TO MAIN HARNESS
12G	W/B	TO MAIN HARNESS
13G	BR	TO MAIN HARNESS
14G	Y/B	TO MAIN HARNESS
15G	G/W	TO MAIN HARNESS
16G	G	TO MAIN HARNESS
17G	G/Y	TO MAIN HARNESS
18G	G/Y	TO MAIN HARNESS
19G	Y/Y	TO MAIN HARNESS
20G	G/Y	TO MAIN HARNESS
21G	B/Y	TO MAIN HARNESS
22G	G/R	TO MAIN HARNESS
23G	Y/R	TO MAIN HARNESS

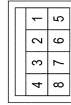
AAMIA4471GB

Connector No.	E172
Connector Name	HIGH PRESSURE FUEL PUMP AND INJECTOR RELAY
Connector Type	M06FB-R-LC
Connector Color	BROWN



Terminal No.	Color of Wire	Signal Name
1	B	GND
2	V	IGNITION
3	P	W/PUMP
5	L/Y	BATTERY
6	SB	VINJ2 A/B
7	G/Y	BATTERY

Connector No.	F10
Connector Name	WIRE TO WIRE
Connector Type	M08FB-LC
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	V	TO ENGINE ROOM HARNESS
2	L/LG	TO ENGINE ROOM HARNESS
3	W	TO ENGINE ROOM HARNESS
4	L	TO ENGINE ROOM HARNESS
5	-	TO ENGINE ROOM HARNESS
6	L/Y	TO ENGINE ROOM HARNESS
7	W/L	TO ENGINE ROOM HARNESS
8	R	TO ENGINE ROOM HARNESS


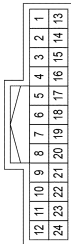
A B C D E F G H I J K L N O P PG

POWER SUPPLY ROUTING CIRCUIT


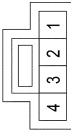
< WIRING DIAGRAM >

BATTERY POWER SUPPLY CONNECTORS - WITH VK56VD


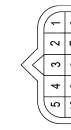
Connector No.	F14
Connector Name	WIRE TO WIRE
Connector Type	TH24FV-NH
Connector Color	WHITE

Connector No.	F33
Connector Name	WIRE TO WIRE
Connector Type	NS04FW-CS
Connector Color	WHITE


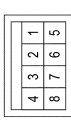
Connector No.	F46
Connector Name	A/T ASSEMBLY (WITH VK56VD)
Connector Type	RK10FG
Connector Color	GREEN

Terminal No.	Color of Wire	Signal Name
1	L/R	TO ENGINE ROOM HARNESS
2	BR	TO ENGINE ROOM HARNESS
3	V	TO ENGINE ROOM HARNESS
4	L/O	TO ENGINE ROOM HARNESS
5	W	TO ENGINE ROOM HARNESS
6	B/R	TO ENGINE ROOM HARNESS
7	V/R	TO ENGINE ROOM HARNESS
8	BR	TO ENGINE ROOM HARNESS
9	W/L	TO ENGINE ROOM HARNESS
10	L/Y	TO ENGINE ROOM HARNESS
11	SB	TO ENGINE ROOM HARNESS
12	L	TO ENGINE ROOM HARNESS
13	W/R	TO ENGINE ROOM HARNESS
14	Y	TO ENGINE ROOM HARNESS
15	B	TO ENGINE ROOM HARNESS
16	B	TO ENGINE ROOM HARNESS
17	R	TO ENGINE ROOM HARNESS
18	B	TO ENGINE ROOM HARNESS
19	B/R	TO ENGINE ROOM HARNESS
20	GR	TO ENGINE ROOM HARNESS
21	V/R	TO ENGINE ROOM HARNESS
22	SHIELD	TO ENGINE ROOM HARNESS
23	SHIELD	TO ENGINE ROOM HARNESS
24	P	TO ENGINE ROOM HARNESS

Terminal No.	Color of Wire	Signal Name
1	L	TO ENGINE ROOM HARNESS
2	W	TO ENGINE ROOM HARNESS
3	P	TO ENGINE ROOM HARNESS
4	SB	TO ENGINE ROOM HARNESS

Connector No.	F34
Connector Name	WIRE TO WIRE
Connector Type	M08FW-GY-LC
Connector Color	GRAY

Terminal No.	Color of Wire	Signal Name
1	Y/R	VIGN
2	P	BATT
3	L	CAN-H
4	BR	K-LINE
5	B	GND
6	Y/R	VIGN
7	R	REV LAMP RELAY
8	P	CAN-L
9	B/R	STARTER RELAY
10	B	GND

Terminal No.	Color of Wire	Signal Name
1	B	TO ENGINE ROOM HARNESS
2	B	TO ENGINE ROOM HARNESS
3	B	TO ENGINE ROOM HARNESS
4	W/R	TO ENGINE ROOM HARNESS
5	P	TO ENGINE ROOM HARNESS
6	O	TO ENGINE ROOM HARNESS
7	SB	TO ENGINE ROOM HARNESS
8	R	TO ENGINE ROOM HARNESS

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

BATTERY POWER SUPPLY CONNECTORS - WITH VK56VD

Connector No.	F79
Connector Name	ECM (WITH VK56VD)
Connector Type	MAB55FB-MEB10-LH
Connector Color	BLACK

Terminal No.	Color of Wire	Signal Name
56	V	MULTI-WAY CONTROL VALVE POWER SUPPLY
57	R	MULTI-WAY CONTROL VALVE MOTOR (-)
58	B	MULTI-WAY CONTROL VALVE MOTOR (+)
59	B	HIGH PRESSURE FUEL PUMP (HI)
60	W	HIGH PRESSURE FUEL PUMP (LO)
61	BR	MULTI-WAY CONTROL VALVE POSITION SENSOR
62	B/R	RMP SIGNAL
63	LG/B	SENSOR GROUND
64	SHIELD	SHIELD
65	W	ENGINE COOLANT TEMPERATURE SENSOR 2
66	P	CAMSHAFT POSITION SENSOR (PHASE) (BANK 2)
67	-	-
68	P	EXHAUST VALVE TIMING CONTROL POSITION SENSOR (BANK 2)
69	L/W	A/F SENSOR 1 (BANK 2)
70	Y/B	A/F SENSOR 1 (BANK 2)
71	-	-
72	-	-
73	LG/R	SENSOR POWER SUPPLY
74	R	A/F SENSOR 1 (BANK 1)
75	-	-
76	-	-
77	L/W	HEATED OXYGEN SENSOR 2 (BANK 2)
78	P/L	THROTTLE POSITION SENSOR 1
79	W	A/F SENSOR 1 (BANK 1)
80	B/W	THROTTLE POSITION SENSOR 2
81	-	-
82	-	-
83	V/G	SENSOR POWER SUPPLY
84	W/R	HEATED OXYGEN SENSOR 2 (BANK 1)
85	L	SENSOR GROUND

86	-	-	-
87	-	-	ECM RELAY (SELF SHUT-OFF)
88	L/LG	-	-
89	-	-	-
90	BR/W	-	FUEL ACTUATOR MOTOR RELAY ABSORB SIGNAL (WEL CONTROL MODULE)
91	L/B	-	IGNITION SIGNAL NO. 2
92	BRY	-	IGNITION SIGNAL NO. 3
93	GR	-	FUEL PUMP RELAY
94	Y/R	-	IGNITION SIGNAL NO. 6
95	Y	-	IGNITION SIGNAL NO. 1
96	-	-	-
97	-	-	-
98	-	-	THROTTLE CONTROL MOTOR RELAY
99	V/R	-	-
100	-	-	-
101	O	-	IGNITION SIGNAL NO. 8
102	P/L	-	IGNITION SIGNAL NO. 5
103	-	-	-
104	LG/R	-	IGNITION SIGNAL NO. 4
105	G/Y	-	IGNITION SIGNAL NO. 7
106	V/W	-	E/AF CANISTER PURGE VOLUME CONTROL SOLENOID VALVE
107	W	-	THROTTLE CONTROL MOTOR (OPEN)
108	R	-	THROTTLE CONTROL MOTOR (CLOSE)
109	-	-	-
110	-	-	-
111	O	-	THROTTLE CONTROL MOTOR POWER SUPPLY
112	LG/B	-	INTAKE VALVE TIMING CONTROL SOLENOID VALVE (BANK 1)
113	LG/R	-	INTAKE VALVE TIMING CONTROL SOLENOID VALVE (BANK 2)
114	LG/B	-	EXHAUST VALVE TIMING CONTROL SOLENOID VALVE (BANK 1)
115	LG/R	-	EXHAUST VALVE TIMING CONTROL SOLENOID VALVE (BANK 2)
116	L/W	-	A/F SENSOR 1 HEATER (BANK 1)
117	SB	-	A/F SENSOR 1 HEATER (BANK 2)
118	LG	-	HEATED OXYGEN SENSOR 2 HEATER (BANK 1)
119	L/R	-	HEATED OXYGEN SENSOR 2 HEATER (BANK 2)
120	L	-	POWER SUPPLY FOR ECM (BACK-UP)

Connector No.	F90
Connector Name	FUSIBLE LINK BOX (BATTERY) (WITH VK56VD)
Connector Type	24340_79907
Connector Color	-

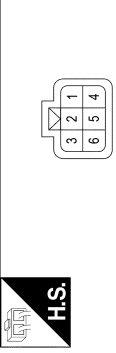


Terminal No.	Color of Wire	Signal Name
7	B	BATTERY

Connector No.	F97
Connector Name	FAN CLUTCH ASSEMBLY (WITH VK56VD)
Connector Type	AAC06FB-WP
Connector Color	BLACK

Terminal No.	Color of Wire	Signal Name
1	L	BATTERY
2	SB	AVCC2-OTHER
3	W	E-CPLG
4	R	GND4-OTHER
5	BR	EFAHREV
6	B	GROUND

Connector No.	F223
Connector Name	WIRE TO WIRE
Connector Type	RS06FGY-PR
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
1	BR	TO ENGINE ROOM HARNESS
2	Y	TO ENGINE ROOM HARNESS
3	SB	TO ENGINE ROOM HARNESS
4	W/L	TO ENGINE ROOM HARNESS
5	Y/B	TO ENGINE ROOM HARNESS
6	L/Y	TO ENGINE ROOM HARNESS

Connector No.	F227
Connector Name	STARTER MOTOR (WITH CUMMINS 5.0L)
Connector Type	24340-JA04D
Connector Color	-



Terminal No.	Color of Wire	Signal Name
B	B	BATTERY

A B C D E F G H I J K L PG N O P

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

BATTERY POWER SUPPLY CONNECTORS - WITH VK56VD

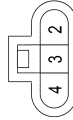
Connector No.	F241
Connector Name	GENERATOR (WITH VK56VD)
Connector Type	24340_EG00A
Connector Color	-



H.S.

Terminal No.	Color of Wire	Signal Name
1	B	-

Connector No.	F242
Connector Name	GENERATOR (WITH VK56VD)
Connector Type	HS03FB
Connector Color	BLACK



H.S.

Terminal No.	Color of Wire	Signal Name
2	BR	-
3	Y/B	-
4	Y	-

Connector No.	F243
Connector Name	FUSIBLE LINK BOX (BATTERY) (WITH VK56VD)
Connector Type	24340_79906
Connector Color	-

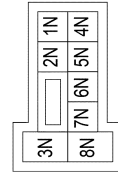


H.S.

Terminal No.	Color of Wire	Signal Name
5	-	-

5	B	-
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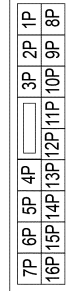
Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	CS06FW-M2
Connector Color	WHITE



H.S.

Terminal No.	Color of Wire	Signal Name
1N	O	IGN
2N	W	BATTERY
3N	W	IGNITION
4N	V	BATTERY
5N	Y	BATTERY
6N	W	BATTERY
7N	L	ACC RELAY OUT
8N	W	IGNITION

Connector No.	M4
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FW-CS
Connector Color	WHITE



H.S.

Terminal No.	Color of Wire	Signal Name
1P	R	IGNITION
2P	Y	IGNITION
3P	G	IGNITION RELAY OUT
4P	B/W	RR DEF RLY
5P	B/W	RR DEF RLY
6P	O	RR DEF RLY OUT
7P	G	IGNITION
8P	W	IGNITION
9P	L	BATTERY
10P	-	-
11P	-	-
12P	-	-
13P	R	BATTERY

14P	Y	BATTERY
15P	Y/LG	BATTERY
16P	W	BLOWER FAN RELAY OUT

Connector No.	M11
Connector Name	HEATED STEERING RELAY
Connector Type	MS02FL-M2-LC
Connector Color	BLUE

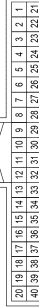


H.S.

Terminal No.	Color of Wire	Signal Name
1	W	BATTERY
2	P	STEERING WHEEL HEATER CONT
3	W	BATTERY
5	R	ACC POWER

Connector No.	M18
Connector Name	ECM (BODY CONTROL MODULE)
Connector Type	TH40FG-NH
Connector Color	GREEN

H.S.



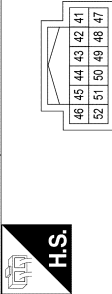
15	-	-
16	-	-
17	P	GND RF A/L
18	V	SECURITY INDICATOR
19	-	-
20	R	SHIFT P
21	R/W	STEP LAMP CONT
22	-	-
23	Y	AIRCON SW
24	-	-
25	W	BRAKE SW FUSE
26	L	SHORT IN PIN INPUT
27	R/G	BRAKE SW LAMP
28	-	-
29	W	BLOWER FAN SW
30	P	DR DOOR LOCK STATUS
31	-	-
32	Y	REAR DEFROGGER SW
33	-	-
34	-	-
35	R/G	REVERSE SW
36	W/B	HAZARD SW
37	-	-
38	-	-
39	B/R	SHIFT N/P
40	-	-

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

BATTERY POWER SUPPLY CONNECTORS - WITH VK56VD

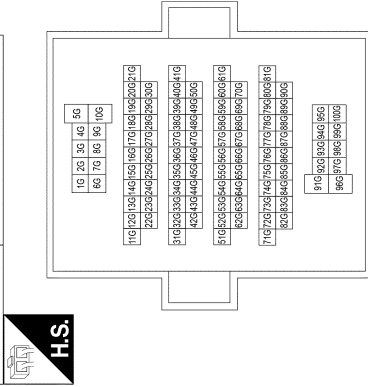
Connector No.	M25
Connector Name	COMBINATION METER (WITH TYPE A)
Connector Type	TH12FW-NH
Connector Color	WHITE



H.S.

Terminal No.	Color of Wire	Signal Name
41	W	IGN
42	R	BAT
43	YV	FUEL SENSOR GND
44	GR	ILL CONT OUTPUT
45	P	CAN-L
46	L	CAN-H
47	B	G1
48	BR/Y	FUEL SENSOR
49	-	-
50	-	-
51	LG	M CAN-L
52	SB	M CAN-H

Connector No.	M31
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4
Connector Color	WHITE



H.S.

Terminal No.	Color of Wire	Signal Name
1G	G	TO ENGINE ROOM HARNESS
2G	B/R	TO ENGINE ROOM HARNESS
3G	W	TO ENGINE ROOM HARNESS
4G	BR/W	TO ENGINE ROOM HARNESS
5G	BR	TO ENGINE ROOM HARNESS
6G	R/W	TO ENGINE ROOM HARNESS
7G	Y	TO ENGINE ROOM HARNESS
8G	G	TO ENGINE ROOM HARNESS
9G	R	TO ENGINE ROOM HARNESS
10G	W	TO ENGINE ROOM HARNESS
11G	R/G	TO ENGINE ROOM HARNESS
12G	W/B	TO ENGINE ROOM HARNESS
13G	BR	TO ENGINE ROOM HARNESS
14G	Y/B	TO ENGINE ROOM HARNESS
15G	G/W	TO ENGINE ROOM HARNESS
16G	G	TO ENGINE ROOM HARNESS
17G	O	TO ENGINE ROOM HARNESS
18G	G/Y	TO ENGINE ROOM HARNESS
19G	Y/W	TO ENGINE ROOM HARNESS
20G	G/Y	TO ENGINE ROOM HARNESS
21G	B/Y	TO ENGINE ROOM HARNESS
22G	G/R	TO ENGINE ROOM HARNESS
23G	Y/R	TO ENGINE ROOM HARNESS
24G	G/B	TO ENGINE ROOM HARNESS
25G	R/W	TO ENGINE ROOM HARNESS
26G	R	TO ENGINE ROOM HARNESS

Terminal No.	Color of Wire	Signal Name
27G	LG	TO ENGINE ROOM HARNESS
28G	G/B	TO ENGINE ROOM HARNESS
29G	G/B	TO ENGINE ROOM HARNESS
30G	BR/Y	TO ENGINE ROOM HARNESS
31G	R	TO ENGINE ROOM HARNESS
32G	R	TO ENGINE ROOM HARNESS
33G	Y/L	TO ENGINE ROOM HARNESS
34G	GR	TO ENGINE ROOM HARNESS
35G	G/R	TO ENGINE ROOM HARNESS
36G	SB	TO ENGINE ROOM HARNESS
37G	R/W	TO ENGINE ROOM HARNESS
38G	BR	TO ENGINE ROOM HARNESS
39G	BR	TO ENGINE ROOM HARNESS
40G	-	TO ENGINE ROOM HARNESS
41G	R/G	TO ENGINE ROOM HARNESS
42G	O	TO ENGINE ROOM HARNESS
43G	G	TO ENGINE ROOM HARNESS
44G	R/Y	TO ENGINE ROOM HARNESS
45G	G	TO ENGINE ROOM HARNESS
46G	LG	TO ENGINE ROOM HARNESS
47G	R	TO ENGINE ROOM HARNESS
48G	W	TO ENGINE ROOM HARNESS
49G	-	TO ENGINE ROOM HARNESS
50G	BR	TO ENGINE ROOM HARNESS
51G	R	TO ENGINE ROOM HARNESS
52G	L	TO ENGINE ROOM HARNESS
53G	W	TO ENGINE ROOM HARNESS
54G	W	TO ENGINE ROOM HARNESS
55G	G	TO ENGINE ROOM HARNESS
56G	W	TO ENGINE ROOM HARNESS
57G	Y	TO ENGINE ROOM HARNESS
58G	BG	TO ENGINE ROOM HARNESS
59G	BG	TO ENGINE ROOM HARNESS
60G	BG	TO ENGINE ROOM HARNESS
61G	O	TO ENGINE ROOM HARNESS
62G	W	TO ENGINE ROOM HARNESS
63G	O	TO ENGINE ROOM HARNESS
64G	W/L	TO ENGINE ROOM HARNESS
65G	W/R	TO ENGINE ROOM HARNESS
66G	BG	TO ENGINE ROOM HARNESS
67G	O	TO ENGINE ROOM HARNESS
68G	B	TO ENGINE ROOM HARNESS
69G	Y	TO ENGINE ROOM HARNESS
70G	L	TO ENGINE ROOM HARNESS
71G	R/W	TO ENGINE ROOM HARNESS
72G	L/W	TO ENGINE ROOM HARNESS
73G	SHIELD	TO ENGINE ROOM HARNESS
74G	W	TO ENGINE ROOM HARNESS
75G	R	TO ENGINE ROOM HARNESS
76G	R/G	TO ENGINE ROOM HARNESS
77G	BG	TO ENGINE ROOM HARNESS
78G	P	TO ENGINE ROOM HARNESS
79G	-	TO ENGINE ROOM HARNESS

Terminal No.	Color of Wire	Signal Name
80G	R	TO ENGINE ROOM HARNESS
81G	L	TO ENGINE ROOM HARNESS
82G	R	TO ENGINE ROOM HARNESS
83G	L	TO ENGINE ROOM HARNESS
84G	L	TO ENGINE ROOM HARNESS
85G	W	TO ENGINE ROOM HARNESS
86G	B/R	TO ENGINE ROOM HARNESS
87G	W	TO ENGINE ROOM HARNESS
88G	G	TO ENGINE ROOM HARNESS
89G	P	TO ENGINE ROOM HARNESS
90G	G	TO ENGINE ROOM HARNESS
91G	P	TO ENGINE ROOM HARNESS
92G	V/W	TO ENGINE ROOM HARNESS
93G	BR	TO ENGINE ROOM HARNESS
94G	B	TO ENGINE ROOM HARNESS
95G	G	TO ENGINE ROOM HARNESS
96G	R	TO ENGINE ROOM HARNESS
97G	R	TO ENGINE ROOM HARNESS
98G	W/B	TO ENGINE ROOM HARNESS
99G	R	TO ENGINE ROOM HARNESS
100G	GR/W	TO ENGINE ROOM HARNESS

Connector No.	M37
Connector Name	FUSE BLOCK (J/B)
Connector Type	L01FW-MC
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1S	W	BATTERY



A B C D E F G H I J K L O P PG N

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >


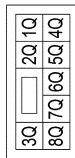
BATTERY POWER SUPPLY CONNECTORS - WITH VK56VD

Connector No.	M38
Connector Name	FUSE BLOCK (J/B)
Connector Type	M01FW-LC
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1L	L	BATTERY

Connector No.	M39
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS08FW-CS
Connector Color	WHITE

Terminal No.	Color of Wire	Signal Name
1Q	-	-
2Q	O/L	IGNITION
3Q	-	-
4Q	-	-
5Q	-	-
6Q	R/W	BATTERY
7Q	R/W	IGNITION
8Q	-	-

Connector No.	M43
Connector Name	AV CONTROL UNIT (WITH AUDIO AMPLIFIER)
Connector Type	NH18FW-CS2
Connector Color	WHITE

Terminal No.	Color of Wire	Signal Name
1	G/W	AMP ON
2	L	FR SP LH+
3	W	FR SP LH-
4	L	RR SP LH+
5	BR	RR SP LH-
6	-	-
7	R	ACC
8	L	CAN-H
9	L	ILL (+)
10	SHIELD	PHE AMP SHIELD
11	B	FR SP RH+
12	Y	FR SP RH-
13	B/W	RR SP RH+
14	P	RR SP RH-
15	-	-
16	-	-
17	P	CAN-L
18	G	SPEED SIG
19	W	BAT
20	B	GND


Connector No.	M60
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS06FW-CS
Connector Color	WHITE




Terminal No.	Color of Wire	Signal Name
1T	-	-
2T	SB	BATTERY


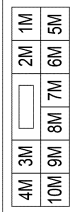
3T	R	RR DEF RLY
4T	G	BATTERY
5T	-	-
6T	-	-

Connector No.	M66
Connector Name	WIRE TO WIRE
Connector Type	LO2FB-MC
Connector Color	BLACK




Terminal No.	Color of Wire	Signal Name
1	W	TO ENGINE ROOM HARNESS
2	L	TO ENGINE ROOM HARNESS

Connector No.	M69
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10FW-CS
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1M	GR	IGNITION
2M	-	-
3M	-	-
4M	-	-
5M	R/Y	BATTERY
6M	R/W	TAIL LAMP 2
7M	-	-
8M	-	-
9M	-	-
10M	W/R	IGNITION

Connector No.	M70
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FBR-CS
Connector Color	BROWN




Terminal No.	Color of Wire	Signal Name
1R	L	TAIL LAMP 2
2R	G/R	IGNITION
3R	Y/R	BATTERY
4R	-	-
5R	W	BATTERY
6R	G/W	ACCESSORY
7R	R	BATTERY
8R	-	-
9R	-	-
10R	W	BATTERY
11R	-	-
12R	B/G	BATTERY
13R	B	ACCESSORY
14R	G/Y	BATTERY
15R	Y	BATTERY
16R	G/R	ACCESSORY

Connector No.	M73
Connector Name	BACK-UP LAMP RELAY
Connector Type	M06FBR-R-LC
Connector Color	BROWN

Terminal No.	Color of Wire	Signal Name
1	G	GROUND
2	R	REV LAMP RELAY
3	G	IGNITION
5	G/W	REVERSE
6	W/B	BATTERY
7	Y/R	REVERSE

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

BATTERY POWER SUPPLY CONNECTORS - WITH VK56VD

Connector No.	M81
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FW-FHAG-SA
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
129	R/G	BATTERY SAVER OUT
130	LG	SUPER LOCK/DOOR UNLOCK AS
131	W	BAT BCM FUSE
132	Y	DOOR LOCK AS/RR/L
133	BR	DOOR UNLOCK AS/RR/L
134	B	GND2
135	O	DOOR LOCK DRA/AS/FL
136	L	ROOM LAMP CONT
137	V	DOOR UNLOCK DRA/AS/FL
138	V	BAT REAR DOOR
139	W	BAT-POWER F/L
140	LG	P/W POWER SUPPLY IGN
141	V	P/W POWER SUPPLY BAT
142	Y	BAT FRONT DOOR
143	B	GND1

Connector No.	M82
Connector Name	CIRCUIT BREAKER-1
Connector Type	M02FW-LC
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	L/B	BATTERY
2	W	BATTERY

Connector No.	M88
Connector Name	ACCESSORY RELAY-2
Connector Type	MS02FL-M2-LC
Connector Color	BLUE

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	GND
2	L	ACC RELAY OUT
3	R	ACC SW
5	W	BATTERY

Connector No.	M96
Connector Name	TRAILER TOW RELAY 1
Connector Type	MS02FL-M2-LC
Connector Color	BLUE

H.S.

Terminal No.	Color of Wire	Signal Name
1	L	IGNITION
2	B	GND
3	R	IGNITION
4	-	-
5	BR	BATTERY

Connector No.	M97
Connector Name	AV CONTROL UNIT (WITHOUT AUDIO AMPLIFIER)
Connector Type	NH18FW-CS2
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	-	-
2	L/W	FR SP LH+
3	L/R	FR SP LH-
4	SB	RR SP LH+
5	B/Y	RR SP LH-
6	-	-
7	R	ACC
8	L	CAN-H
9	L	ILL (-)
10	-	-
11	W/B	FR SP RH+
12	L/B	FR SP RH-
13	O/L	RR SP RH+
14	R/L	RR SP RH-
15	-	-
16	-	-
17	P	CAN-L
18	G	SPEED SIG
19	W	BAT
20	B	GND

Connector No.	M99
Connector Name	CLIMATE CONTROLLED SEAT RELAY
Connector Type	M06FBR-R-LC
Connector Color	BROWN

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	GND
2	G/R	IGNITION
3	W	IGNITION
5	R	BATTERY
6	G	IGNITION
7	P	BATTERY

1	B	GND
2	G/R	IGNITION
3	W	IGNITION
5	R	BATTERY
6	G	IGNITION
7	P	BATTERY

Connector No.	M112
Connector Name	AUDIO AMP.
Connector Type	TH08FW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	Y	BAT
2	W	WOOFER 1+
3	BRW	WOOFER 2+
4	B	GND
17	Y/LG	BAT
18	B	WOOFER 1-
19	BR	WOOFER 2-
20	B	GND

Connector No.	M126
Connector Name	HEATED SEAT RELAY
Connector Type	M06FBR-R-LC
Connector Color	BROWN

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	GND
2	G/R	IGNITION
3	W	IGNITION
5	R	BATTERY
6	G	IGNITION
7	P	BATTERY



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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >


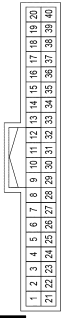
BATTERY POWER SUPPLY CONNECTORS - WITH VK56VD

Connector No.	M150
Connector Name	CARGO LAMP RELAY
Connector Type	MS02FL-M2-LC
Connector Color	BLUE


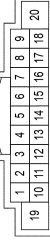
Terminal No.	Color of Wire	Signal Name
1	R/Y	CARGO BED LAMP
2	G	BATTERY
3	LG	ACCESSORY
5	G	BATTERY

Connector No.	M163
Connector Name	COMBINATION METER (WITH TYPE B)
Connector Type	TH40FW-NH
Connector Color	WHITE

19	-	OIL LEVEL GND
20	R	OUTSIDE TEMP GND
21	-	-
22	P	STRG SW A
23	R	STRG SW B
24	W	WAHISER SW
25	-	BRAKE OIL SW
26	G	PKB SW
27	-	-
28	O/B	DR BELT SW
29	-	-
30	Y/V	FUEL SENSOR GND
31	BRY	FUEL SENSOR
32	BR	AT SHIFT UP
33	V/W	AT SHIFT DOWN
34	L	CAN-H
35	P	CAN-L
36	W	ILL UP SW
37	R	ILL DOWN SW
38	G	8P/R OUTPUT
39	-	-
40	GR	ILL CONT OUT

Connector No.	M171
Connector Name	AUDIO UNIT
Connector Type	NH18FW-CS2
Connector Color	WHITE


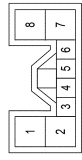
Terminal No.	Color of Wire	Signal Name
1	-	-
2	L/W	FR SP LH+
3	L/R	FR SP LH-
4	SB	RR SP LH+
5	B/Y	RR SP LH-
6	P	STRG SW A (WITH TYPE B METER)
7	R	ACC
8	GR	ILL (-)
9	L	ILL (+)
10	-	-
11	W/B	FR SP RH+
12	L/B	FR SP RH-
13	O/L	RR SP RH+
14	R/L	RR SP RH-

Terminal No.	Color of Wire	Signal Name
1	B	GND (ILL)
2	B	GND (CIRCUIT)
3	B	GND (POWER)
4	-	-
5	-	-
6	R	BAT
7	V	SECURITY
8	W	IGN
9	B/G	AS BELT SW
10	LG	TOW MODE SW
11	BR	CHG
12	B	SATELLITE SW GND
13	B	STRG SW GND
14	R	ACC
15	W	OUTSIDE TEMP SENSOR
16	O	AIR BAG
17	-	-
18	P	TRIP RESET SW

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
15	B	STRG SW GND (WITH TYPE B METER)
16	R	STRG SW B (WITH TYPE B METER)
17	-	-
18	G	SPEED SIGNAL
19	W	BAT
20	B	GND

Connector No.	M174
Connector Name	TRAILER BRAKE CONTROL UNIT
Connector Type	TB04FW-TM4
Connector Color	WHITE


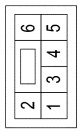
Terminal No.	Color of Wire	Signal Name
1	B	GND
2	BRW	TRAILER BRAKE
3	L	ILLUMINATION +
4	GR	ILLUMINATION -
5	G	IGNITION
7	R	BATTERY
8	R/G	STOP LAMP OUT

Connector No.	M186
Connector Name	CONSOLE POWER SOCKET RELAY
Connector Type	MS02FL-M2-LC
Connector Color	BLUE

Terminal No.	Color of Wire	Signal Name
1	B	GND
2	L	ACC OUT
3	G	IGNITION
5	G/Y	IGNITION

Connector No.	M190
Connector Name	ELECTRIC BRAKE (PRE-WIRING)
Connector Type	NS06FW-CS
Connector Color	WHITE

Terminal No.	Color of Wire	Signal Name
1	B	GND
2	R/G	STOP LAMP SW
3	BRW	TRAILER BRAKE
4	L	ILLUMINATION +
5	R	BATTERY




POWER SUPPLY ROUTING CIRCUIT

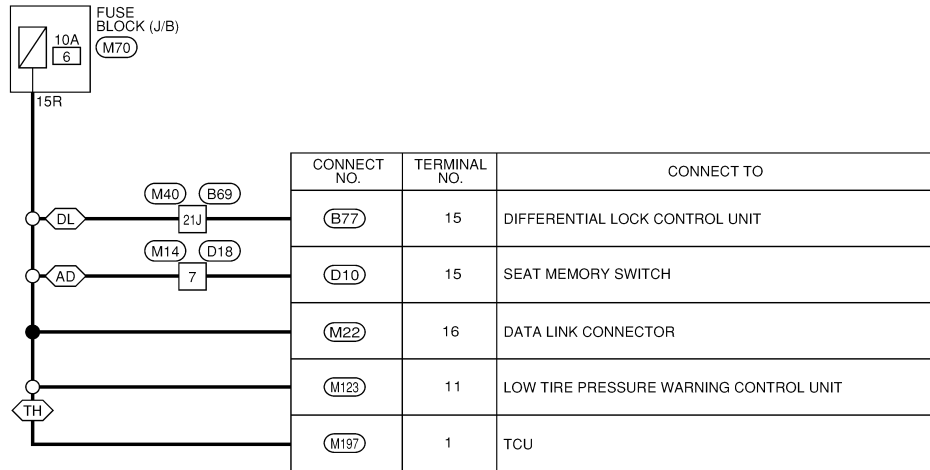
< WIRING DIAGRAM >

Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 6 -

INFOID:000000012918313

BATTERY POWER SUPPLY FUSE No. 6

-  : WITH AUTOMATIC DRIVE POSITIONER
-  : WITH ELECTRONIC LOCKING REAR DIFFERENTIAL
-  : WITH TELEMATICS SYSTEM



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
POWER SUPPLY ROUTING CIRCUIT

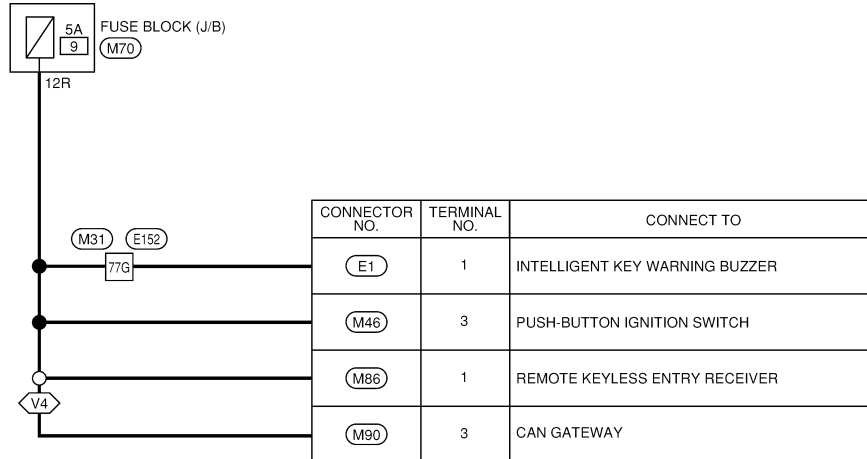
< WIRING DIAGRAM >

Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 9 -

INFOID:000000012918314

BATTERY POWER SUPPLY FUSE No. 9

 : CAN GATEWAY SYSTEM - WITH Cummins 5.0L



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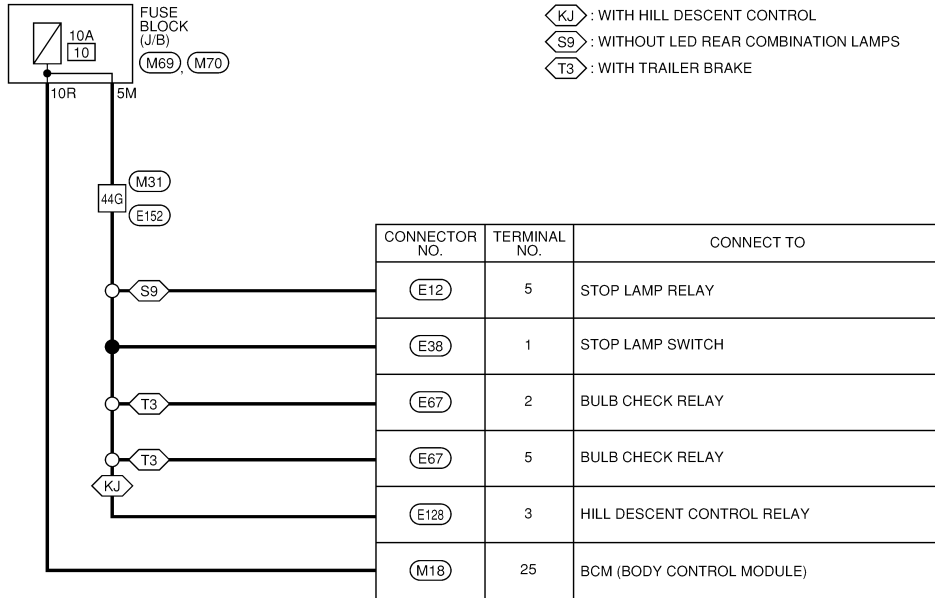
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 10 -

INFOID:000000012918315

BATTERY POWER SUPPLY FUSE No. 10



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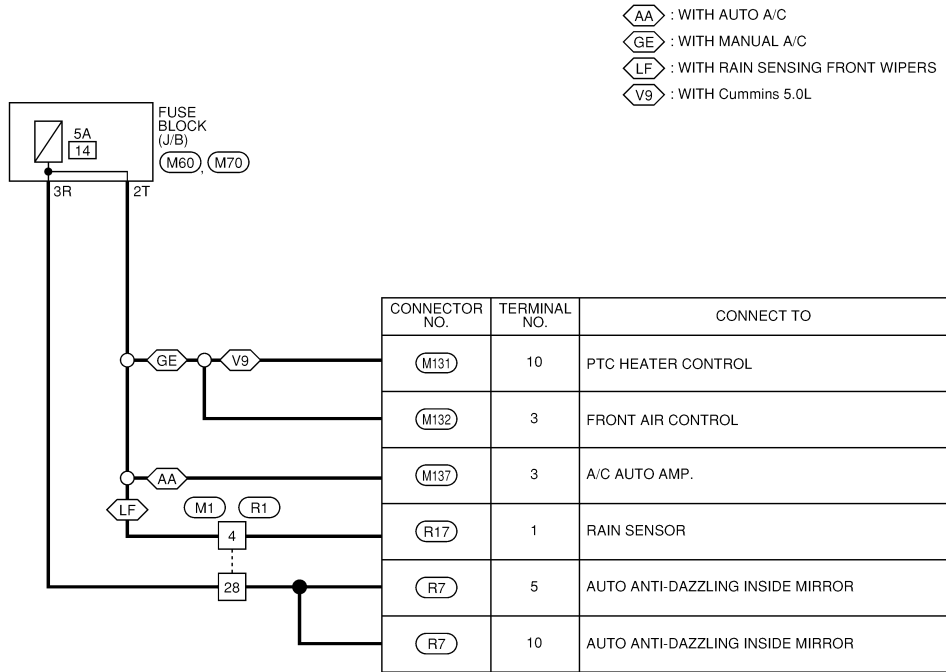
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 14 -

INFOID:000000012918316

BATTERY POWER SUPPLY FUSE No. 14



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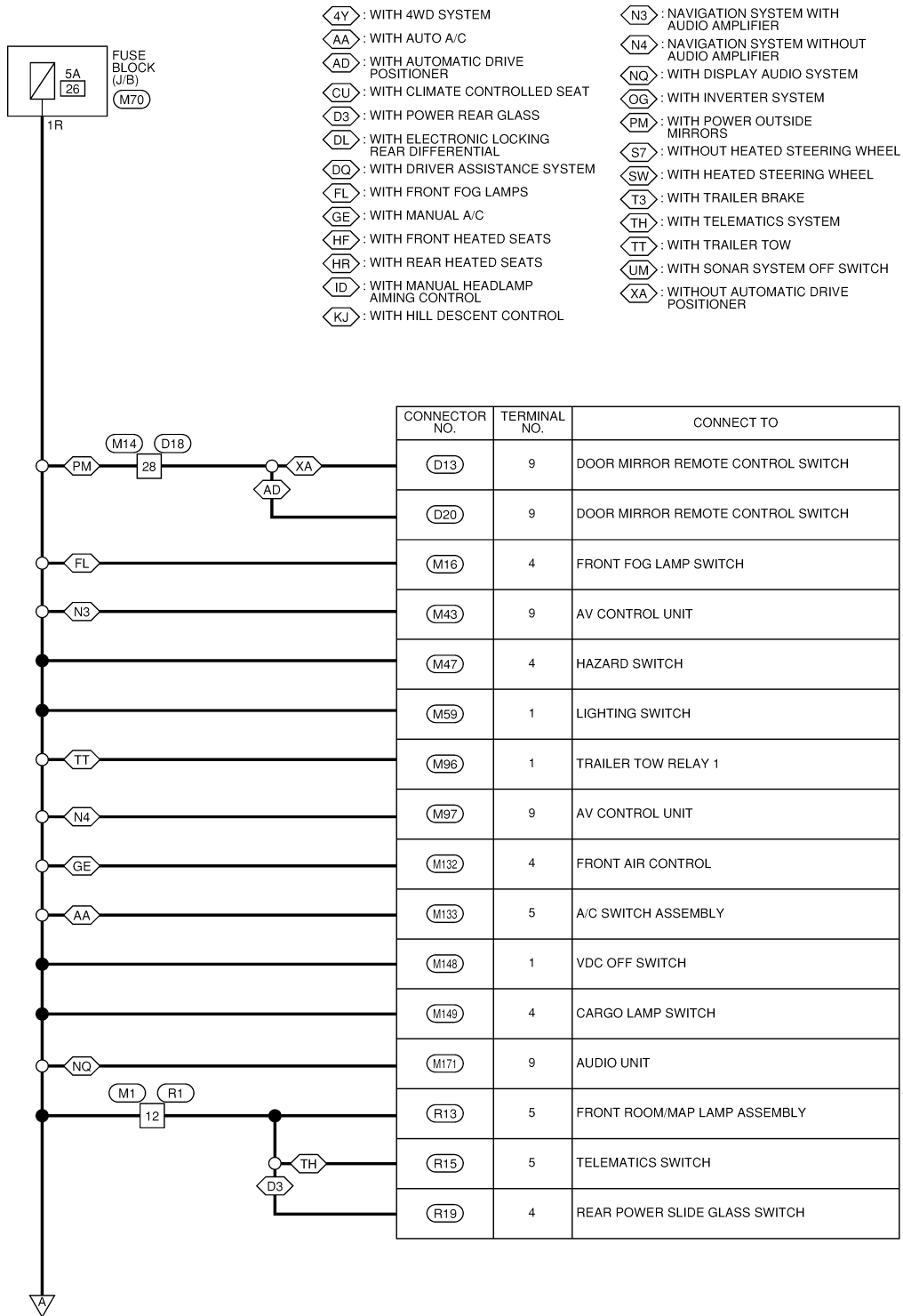
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 26 -

INFOID:000000012918317

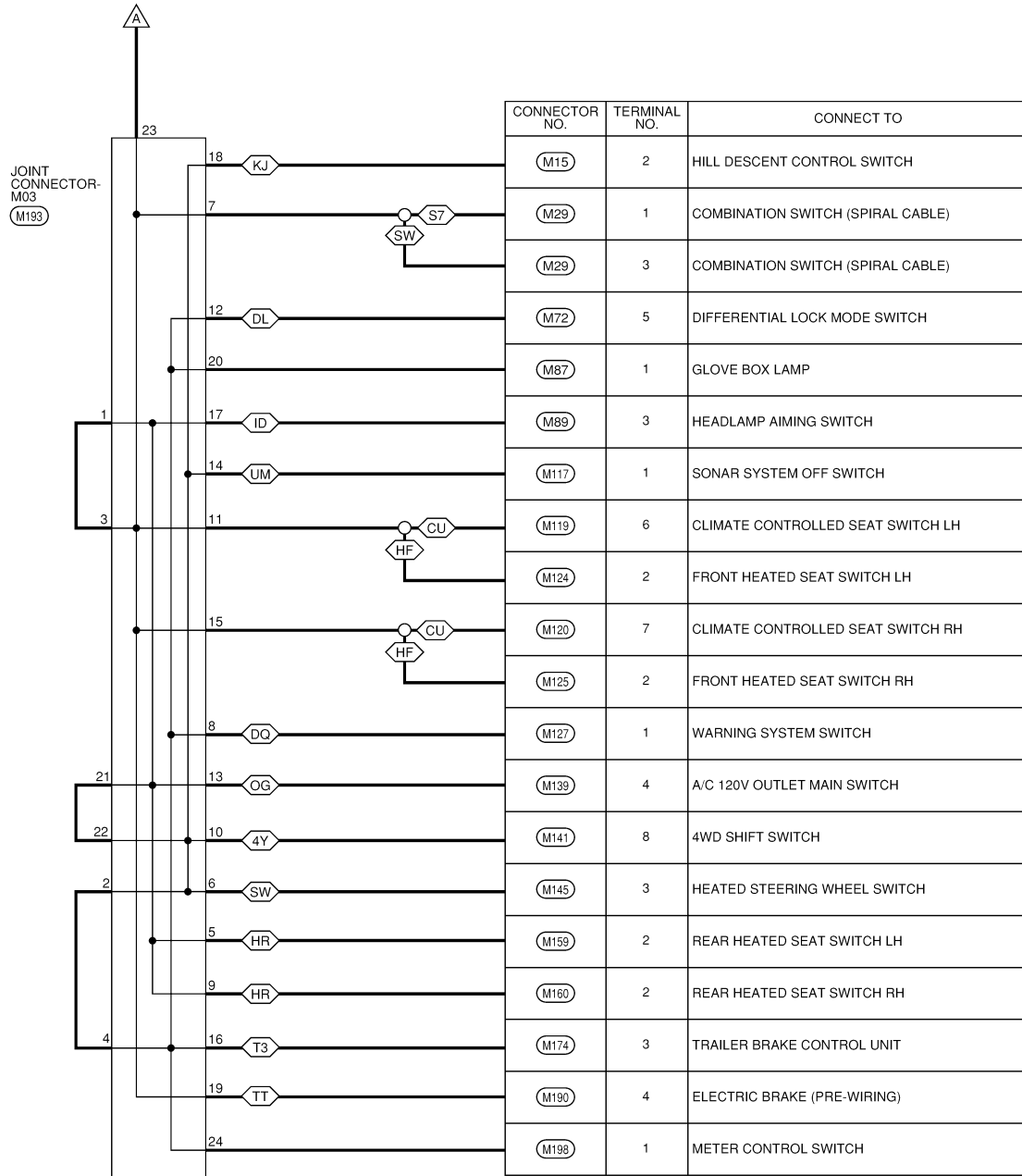
BATTERY POWER SUPPLY FUSE No. 26



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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >



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POWER SUPPLY ROUTING CIRCUIT

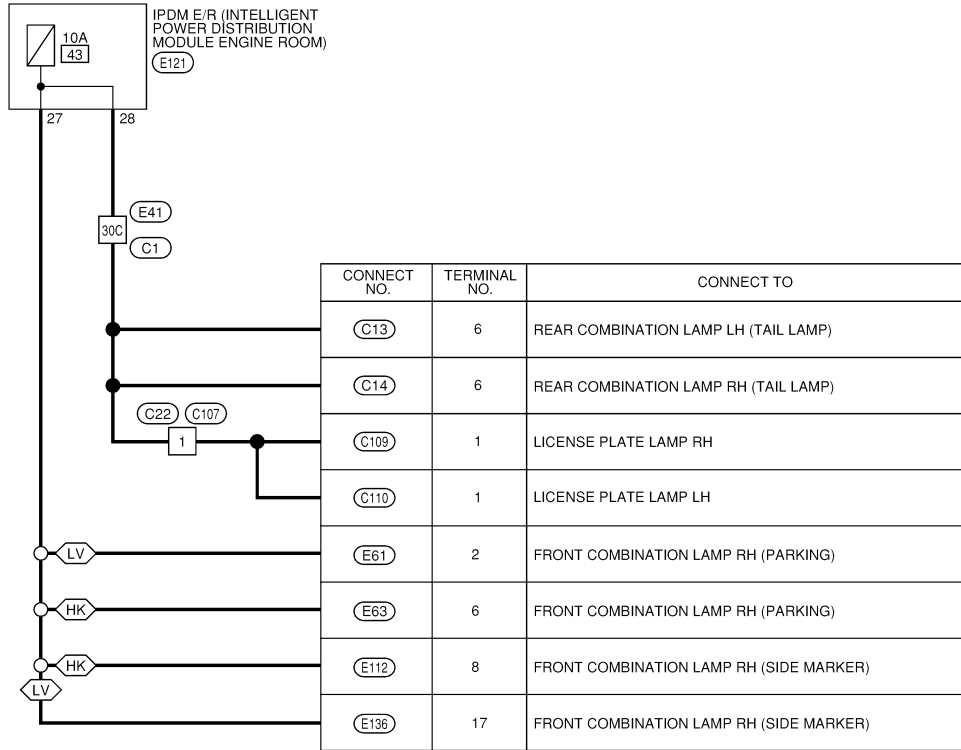
< WIRING DIAGRAM >

Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 43 -

INFOID:000000012918318

BATTERY POWER SUPPLY FUSE No. 43

HK : WITH HALOGEN HEADLAMPS
LV : WITH LED HEADLAMPS



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AAMIA4501GB

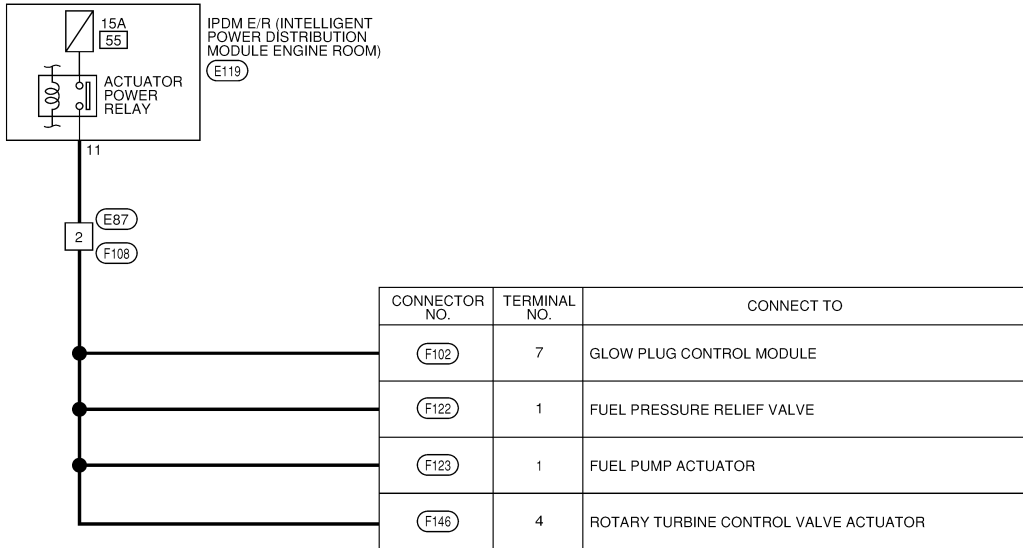
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 55 - WITH Cummins 5.0L -

INFOID:000000013802603

BATTERY POWER SUPPLY FUSE No. 55 - WITH Cummins 5.0L



AAMIA4502GB

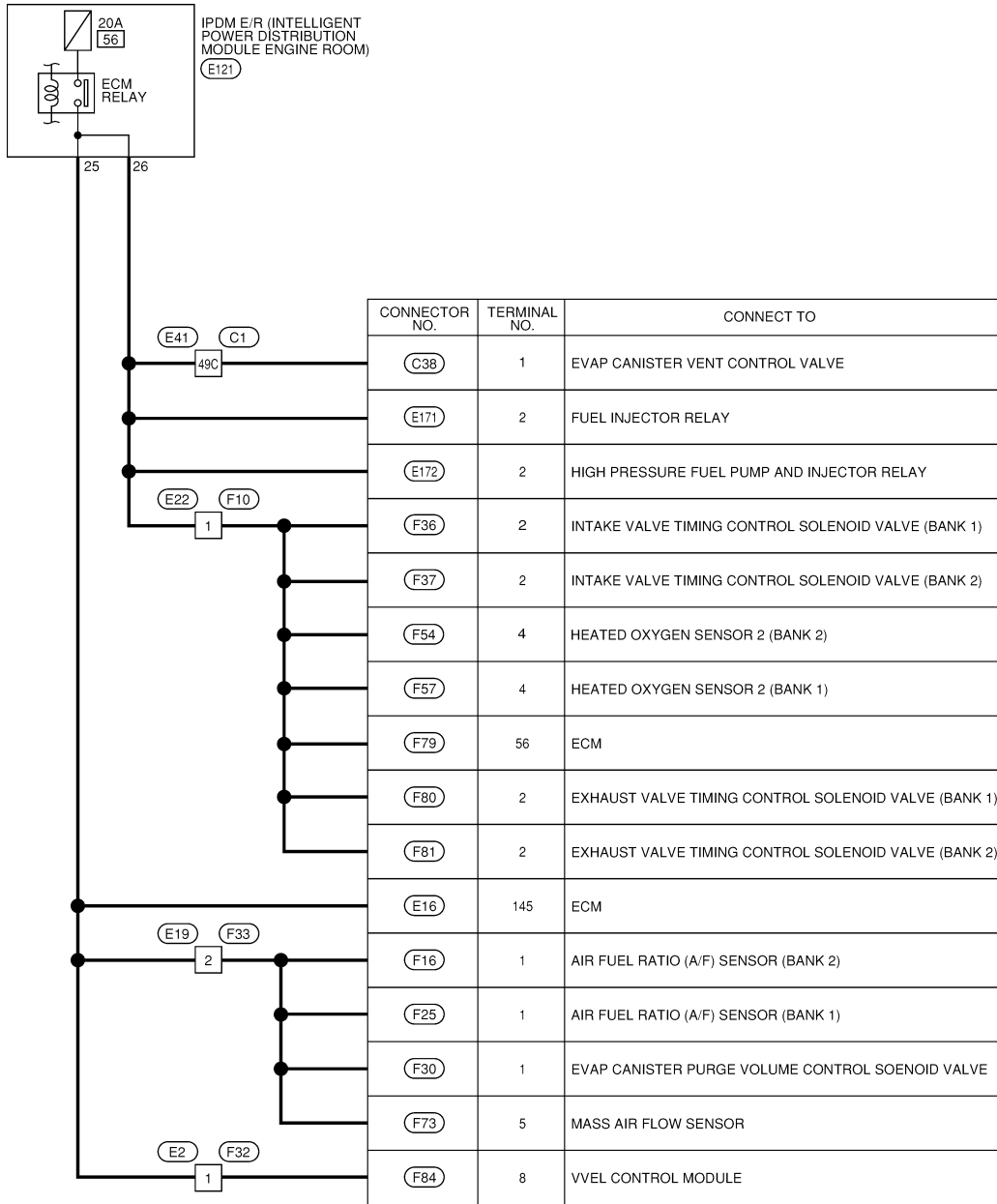
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 56 - WITH VK56VD -

INFOID:000000013107346

BATTERY POWER SUPPLY FUSE No. 56 - WITH VK56VD



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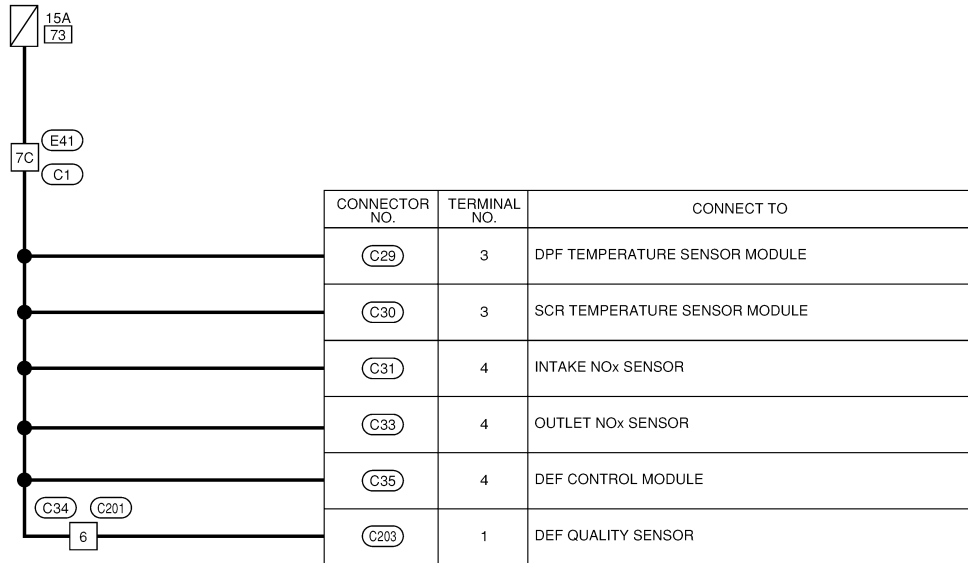
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 73 - WITH Cummins 5.0L -

INFOID:0000000012918319

BATTERY POWER SUPPLY FUSE No. 73 - WITH Cummins 5.0L



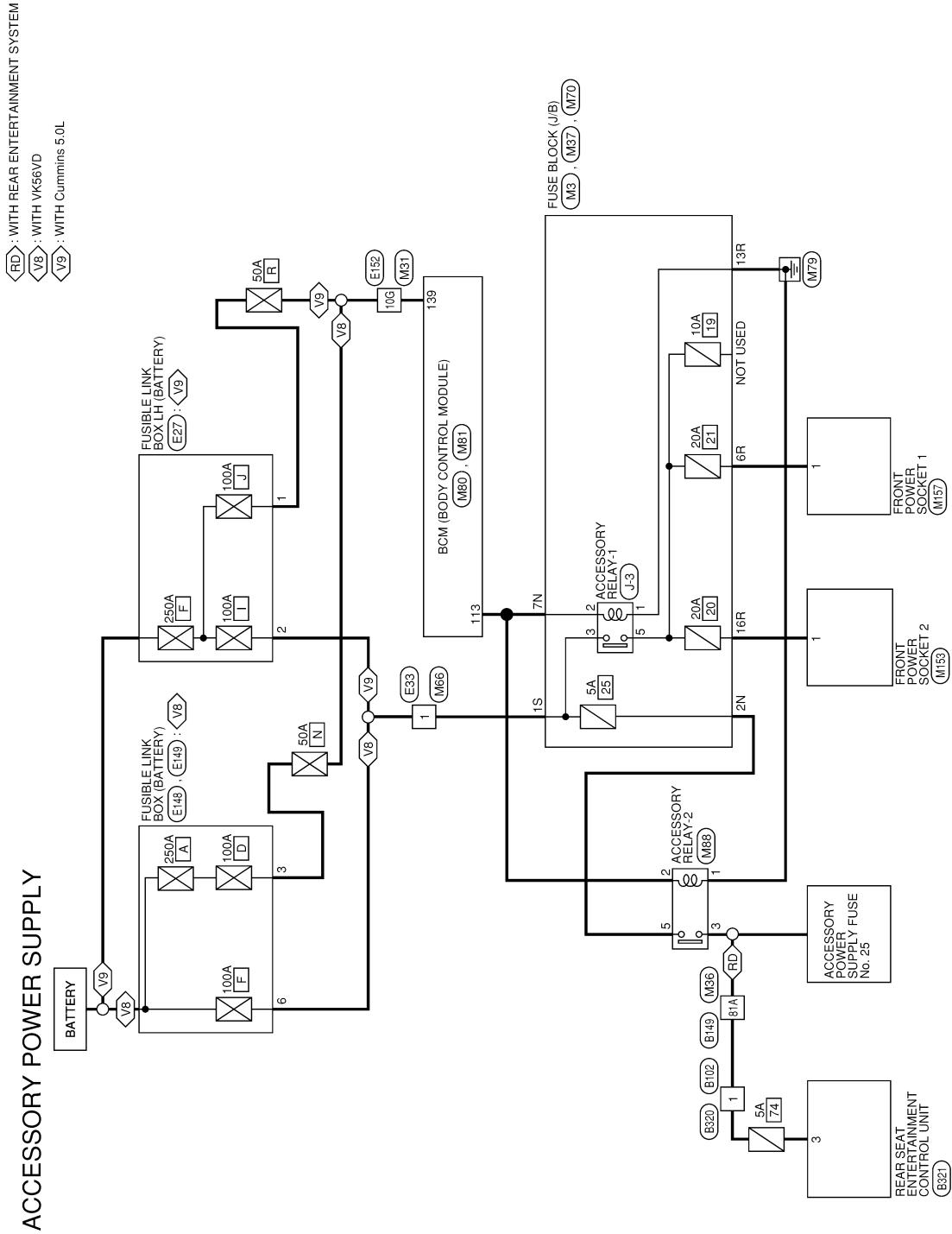
AAMIA4504GB

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - ACCESSORY POWER SUPPLY -

INFOID:000000012918320



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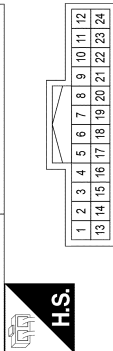
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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

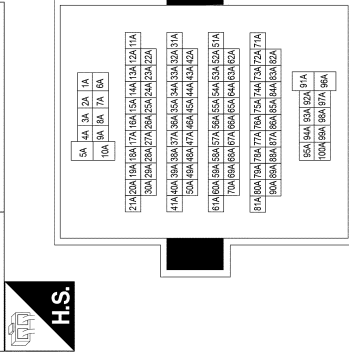
ACCESSORY POWER SUPPLY CONNECTORS

Connector No.	B102
Connector Name	WIRE TO WIRE
Connector Type	TH24FV-NH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	R	TO FRONT SEAT RH HARNESS
2	SHIELD	TO FRONT SEAT RH HARNESS
3	W	TO FRONT SEAT RH HARNESS
4	GR/R	TO FRONT SEAT RH HARNESS
5	GR/B	TO FRONT SEAT RH HARNESS
6	L	TO FRONT SEAT RH HARNESS
7	B	TO FRONT SEAT RH HARNESS
8	-	TO FRONT SEAT RH HARNESS
9	-	TO FRONT SEAT RH HARNESS
10	-	TO FRONT SEAT RH HARNESS
11	-	TO FRONT SEAT RH HARNESS
12	-	TO FRONT SEAT RH HARNESS
13	SHIELD	TO FRONT SEAT RH HARNESS
14	B/R	TO FRONT SEAT RH HARNESS
15	LG/B	TO FRONT SEAT RH HARNESS
16	Y/B	TO FRONT SEAT RH HARNESS
17	R	TO FRONT SEAT RH HARNESS
18	G	TO FRONT SEAT RH HARNESS
19	B	TO FRONT SEAT RH HARNESS
20	SHIELD	TO FRONT SEAT RH HARNESS
21	L	TO FRONT SEAT RH HARNESS
22	G	TO FRONT SEAT RH HARNESS
23	G	TO FRONT SEAT RH HARNESS
24	Y	TO FRONT SEAT RH HARNESS

Connector No.	B149
Connector Name	WIRE TO WIRE
Connector Type	TH00MDGY-CS16-TM4
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
1A	SB/G	TO MAIN HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
1A	SB	TO MAIN HARNESS - (WITH CLIMATE CONTROLLED SEAT)
2A	L	TO MAIN HARNESS
3A	V	TO MAIN HARNESS
4A	SB/R	TO MAIN HARNESS
5A	-	TO MAIN HARNESS
6A	LG/Y	TO MAIN HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
6A	LG	TO MAIN HARNESS - (WITH CLIMATE CONTROLLED SEAT)
7A	W	TO MAIN HARNESS
8A	B	TO MAIN HARNESS
9A	L/B	TO MAIN HARNESS
10A	W	TO MAIN HARNESS
11A	LG	TO MAIN HARNESS
12A	BR/O	TO MAIN HARNESS
13A	Y/W	TO MAIN HARNESS
14A	R/G	TO MAIN HARNESS
15A	Y/L	TO MAIN HARNESS
16A	O/L	TO MAIN HARNESS
17A	L	TO MAIN HARNESS
18A	Y	TO MAIN HARNESS
19A	LG	TO MAIN HARNESS
20A	BR/Y	TO MAIN HARNESS
21A	BG	TO MAIN HARNESS
22A	LG/R	TO MAIN HARNESS

76A	GR/R	TO MAIN HARNESS
77A	L	TO MAIN HARNESS
78A	SHIELD	TO MAIN HARNESS
79A	Y	TO MAIN HARNESS
80A	L	TO MAIN HARNESS
81A	R	TO MAIN HARNESS
82A	SHIELD	TO MAIN HARNESS
83A	LG/B	TO MAIN HARNESS
84A	R	TO MAIN HARNESS
85A	SHIELD	TO MAIN HARNESS
86A	GR/B	TO MAIN HARNESS
87A	B	TO MAIN HARNESS
88A	W	TO MAIN HARNESS
89A	SHIELD	TO MAIN HARNESS
90A	G	TO MAIN HARNESS
91A	W/L	TO MAIN HARNESS
92A	BR	TO MAIN HARNESS
93A	L/Y	TO MAIN HARNESS
94A	R/L	TO MAIN HARNESS
95A	BR	TO MAIN HARNESS
96A	R	TO MAIN HARNESS
97A	LG	TO MAIN HARNESS
98A	B/W	TO MAIN HARNESS
99A	O/L	TO MAIN HARNESS
100A	BR/W	TO MAIN HARNESS


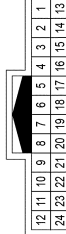
23A	Y/LG	TO MAIN HARNESS
24A	BR/Y	TO MAIN HARNESS
25A	-	TO MAIN HARNESS
26A	GR	TO MAIN HARNESS
27A	LG	TO MAIN HARNESS
28A	LG/B	TO MAIN HARNESS
29A	-	TO MAIN HARNESS
30A	-	TO MAIN HARNESS
31A	W/R	TO MAIN HARNESS
32A	G/R	TO MAIN HARNESS
33A	-	TO MAIN HARNESS
34A	SHIELD	TO MAIN HARNESS
35A	P	TO MAIN HARNESS
36A	B	TO MAIN HARNESS
37A	-	TO MAIN HARNESS
38A	R/B	TO MAIN HARNESS
39A	G/O	TO MAIN HARNESS
40A	V	TO MAIN HARNESS
41A	SHIELD	TO MAIN HARNESS
42A	SHIELD	TO MAIN HARNESS
43A	R	TO MAIN HARNESS
44A	G	TO MAIN HARNESS
45A	-	TO MAIN HARNESS
46A	-	TO MAIN HARNESS
47A	Y	TO MAIN HARNESS
48A	R/W	TO MAIN HARNESS
49A	R/L	TO MAIN HARNESS
50A	B	TO MAIN HARNESS
51A	-	TO MAIN HARNESS
52A	-	TO MAIN HARNESS
53A	-	TO MAIN HARNESS
54A	-	TO MAIN HARNESS
55A	-	TO MAIN HARNESS
56A	-	TO MAIN HARNESS
57A	-	TO MAIN HARNESS
58A	-	TO MAIN HARNESS
59A	-	TO MAIN HARNESS
60A	G/W	TO MAIN HARNESS
61A	-	TO MAIN HARNESS
62A	-	TO MAIN HARNESS
63A	-	TO MAIN HARNESS
64A	-	TO MAIN HARNESS
65A	-	TO MAIN HARNESS
66A	-	TO MAIN HARNESS
67A	-	TO MAIN HARNESS
68A	-	TO MAIN HARNESS
69A	Y/R	TO MAIN HARNESS
70A	R/G	TO MAIN HARNESS
71A	-	TO MAIN HARNESS
72A	Y/B	TO MAIN HARNESS
73A	G	TO MAIN HARNESS
74A	B/R	TO MAIN HARNESS
75A	SHIELD	TO MAIN HARNESS

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >



ACCESSORY POWER SUPPLY CONNECTORS

Connector No.	B320
Connector Name	WIRE TO WIRE
Connector Type	TH24MM
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	R	-
2	SHIELD	-
3	Y	-
4	R	-
5	W	-
6	B	-
7	R/W	-
8	W	-(NOT USED)
9	R	-(NOT USED)
10	B	-(NOT USED)
11	R/W	-(NOT USED)
12	L	-(NOT USED)
13	SHIELD	-
14	Y	-
15	R	-
16	W	-
17	B	-
18	R/W	-
19	B	-
20	SHIELD	-
21	SHIELD	-
22	W/B	-
23	R/B	-
24	B	-

Connector No.	B321
Connector Name	REAR SEAT ENTERTAINMENT CONTROL UNIT
Connector Type	99J8VZ060-SP
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	B	-
2	-	-
3	R	-

Connector No.	E27
Connector Name	FUSIBLE LINK BOX LH (BATTERY)
Connector Type	L02FBR-MC
Connector Color	BROWN

Terminal No.	Color of Wire	Signal Name
1	B	BATTERY
2	W	BATTERY



Connector No.	E33
Connector Name	WIRE TO WIRE
Connector Type	L02MB-MC
Connector Color	BLACK

Terminal No.	Color of Wire	Signal Name
1	W	BATTERY



1	W	TO MAIN HARNESS
2	L	TO MAIN HARNESS

Connector No.	E148
Connector Name	FUSIBLE LINK BOX (BATTERY) (WITH VK56VD)
Connector Type	L02FGY-MC
Connector Color	GRAY

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

Connector No.	E149
Connector Name	FUSIBLE LINK BOX (BATTERY) (WITH VK56VD)
Connector Type	24340_EA00A
Connector Color	-

Terminal No.	Color of Wire	Signal Name
6	W	BATTERY

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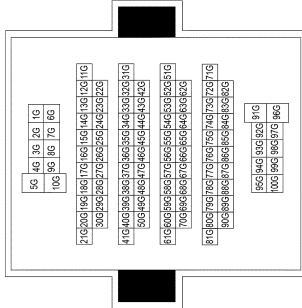
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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

ACCESSORY POWER SUPPLY CONNECTORS

Connector No.	E152
Connector Name	WIRE TO WIPE
Connector Type	TH80MW-CST6-TM4
Connector Color	WHITE

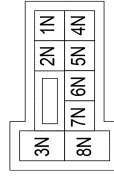


Terminal No.	Color of Wire	Signal Name
1G	G	TO MAIN HARNESS
2G	B/R	TO MAIN HARNESS
3G	W/B	TO MAIN HARNESS
4G	B/W	TO MAIN HARNESS
5G	BR	TO MAIN HARNESS
6G	P	TO MAIN HARNESS - (WITH VCS6VD)
6G	R/W	TO MAIN HARNESS - (WITH CUMMINS 5.0L)
7G	Y	TO MAIN HARNESS
8G	G	TO MAIN HARNESS
9G	R	TO MAIN HARNESS
10G	W	TO MAIN HARNESS
11G	R/G	TO MAIN HARNESS
12G	W/B	TO MAIN HARNESS
13G	BR	TO MAIN HARNESS
14G	Y/B	TO MAIN HARNESS
15G	G/W	TO MAIN HARNESS
16G	G	TO MAIN HARNESS
17G	G/Y	TO MAIN HARNESS
18G	G/Y	TO MAIN HARNESS
19G	Y/W	TO MAIN HARNESS
20G	G/Y	TO MAIN HARNESS
21G	B/Y	TO MAIN HARNESS
22G	G/R	TO MAIN HARNESS
23G	Y/R	TO MAIN HARNESS

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72G	L/W	TO MAIN HARNESS
73G	SHIELD	TO MAIN HARNESS
74G	W	TO MAIN HARNESS
75G	R	TO MAIN HARNESS
76G	R/G	TO MAIN HARNESS
77G	G	TO MAIN HARNESS
78G	W	TO MAIN HARNESS
79G	-	TO MAIN HARNESS
80G	R	TO MAIN HARNESS
81G	L	TO MAIN HARNESS
82G	R	TO MAIN HARNESS
83G	L	TO MAIN HARNESS
84G	L	TO MAIN HARNESS
85G	W/B	TO MAIN HARNESS
86G	B/R	TO MAIN HARNESS
87G	W/B	TO MAIN HARNESS
88G	P	TO MAIN HARNESS
89G	L	TO MAIN HARNESS
90G	G	TO MAIN HARNESS
91G	G	TO MAIN HARNESS
92G	V/W	TO MAIN HARNESS
93G	BR	TO MAIN HARNESS
94G	G	TO MAIN HARNESS
95G	G	TO MAIN HARNESS
96G	W	TO MAIN HARNESS
97G	R	TO MAIN HARNESS
98G	W/B	TO MAIN HARNESS
99G	BR	TO MAIN HARNESS
100G	GR/W	TO MAIN HARNESS

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	CS06FW-M2
Connector Color	WHITE



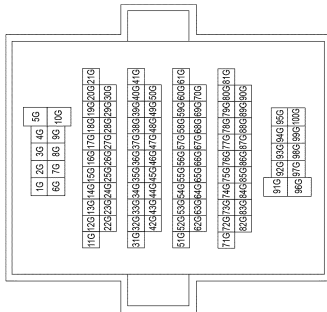
Terminal No.	Color of Wire	Signal Name
1N	O	IGN
2N	W	BATTERY
3N	W	IGNITION
4N	V	BATTERY
5N	Y	BATTERY
6N	W	BATTERY
7N	L	ACC RELAY OUT
8N	W	IGNITION

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

ACCESSORY POWER SUPPLY CONNECTORS

Connector No.	M31
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1G	G	TO ENGINE ROOM HARNESS
2G	B/R	TO ENGINE ROOM HARNESS
3G	W	TO ENGINE ROOM HARNESS
4G	B/W	TO ENGINE ROOM HARNESS
5G	BR	TO ENGINE ROOM HARNESS
6G	R/W	TO ENGINE ROOM HARNESS
7G	Y	TO ENGINE ROOM HARNESS
8G	G	TO ENGINE ROOM HARNESS
9G	R	TO ENGINE ROOM HARNESS
10G	W	TO ENGINE ROOM HARNESS
11G	R/G	TO ENGINE ROOM HARNESS
12G	W/B	TO ENGINE ROOM HARNESS
13G	BR	TO ENGINE ROOM HARNESS
14G	Y/B	TO ENGINE ROOM HARNESS
15G	G/W	TO ENGINE ROOM HARNESS
16G	G	TO ENGINE ROOM HARNESS
17G	O	TO ENGINE ROOM HARNESS
18G	G/Y	TO ENGINE ROOM HARNESS
19G	Y/W	TO ENGINE ROOM HARNESS
20G	G/Y	TO ENGINE ROOM HARNESS
21G	B/Y	TO ENGINE ROOM HARNESS
22G	G/R	TO ENGINE ROOM HARNESS
23G	Y/R	TO ENGINE ROOM HARNESS
24G	G/B	TO ENGINE ROOM HARNESS
25G	R/W	TO ENGINE ROOM HARNESS
26G	R	TO ENGINE ROOM HARNESS

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80G	R	TO ENGINE ROOM HARNESS
81G	L	TO ENGINE ROOM HARNESS
82G	R	TO ENGINE ROOM HARNESS
83G	L	TO ENGINE ROOM HARNESS
84G	L	TO ENGINE ROOM HARNESS
85G	W	TO ENGINE ROOM HARNESS
86G	B/R	TO ENGINE ROOM HARNESS
87G	W	TO ENGINE ROOM HARNESS
88G	G	TO ENGINE ROOM HARNESS
89G	P	TO ENGINE ROOM HARNESS
90G	G	TO ENGINE ROOM HARNESS
91G	P	TO ENGINE ROOM HARNESS
92G	V/W	TO ENGINE ROOM HARNESS
93G	BR	TO ENGINE ROOM HARNESS
94G	B	TO ENGINE ROOM HARNESS
95G	G	TO ENGINE ROOM HARNESS
96G	R	TO ENGINE ROOM HARNESS
97G	R	TO ENGINE ROOM HARNESS
98G	W/B	TO ENGINE ROOM HARNESS
99G	R	TO ENGINE ROOM HARNESS
100G	GR/W	TO ENGINE ROOM HARNESS

27G	LG	TO ENGINE ROOM HARNESS
28G	G/B	TO ENGINE ROOM HARNESS
29G	G/B	TO ENGINE ROOM HARNESS
30G	B/Y	TO ENGINE ROOM HARNESS
31G	R	TO ENGINE ROOM HARNESS
32G	R	TO ENGINE ROOM HARNESS
33G	Y/L	TO ENGINE ROOM HARNESS
34G	GR	TO ENGINE ROOM HARNESS
35G	GR	TO ENGINE ROOM HARNESS
36G	SB	TO ENGINE ROOM HARNESS
37G	R/W	TO ENGINE ROOM HARNESS
38G	BR	TO ENGINE ROOM HARNESS
39G	BR	TO ENGINE ROOM HARNESS
40G	-	TO ENGINE ROOM HARNESS
41G	R/G	TO ENGINE ROOM HARNESS
42G	O	TO ENGINE ROOM HARNESS
43G	G	TO ENGINE ROOM HARNESS
44G	R/Y	TO ENGINE ROOM HARNESS
45G	G	TO ENGINE ROOM HARNESS
46G	LG	TO ENGINE ROOM HARNESS
47G	R	TO ENGINE ROOM HARNESS
48G	W	TO ENGINE ROOM HARNESS
49G	-	TO ENGINE ROOM HARNESS
50G	BR	TO ENGINE ROOM HARNESS
51G	R	TO ENGINE ROOM HARNESS
52G	L	TO ENGINE ROOM HARNESS
53G	W	TO ENGINE ROOM HARNESS
54G	W	TO ENGINE ROOM HARNESS
55G	G	TO ENGINE ROOM HARNESS
56G	W	TO ENGINE ROOM HARNESS
57G	Y	TO ENGINE ROOM HARNESS
58G	BG	TO ENGINE ROOM HARNESS
59G	BG	TO ENGINE ROOM HARNESS
60G	BG	TO ENGINE ROOM HARNESS
61G	O	TO ENGINE ROOM HARNESS
62G	W	TO ENGINE ROOM HARNESS
63G	O	TO ENGINE ROOM HARNESS
64G	W/L	TO ENGINE ROOM HARNESS
65G	W/R	TO ENGINE ROOM HARNESS
66G	BG	TO ENGINE ROOM HARNESS
67G	O	TO ENGINE ROOM HARNESS
68G	B	TO ENGINE ROOM HARNESS
69G	Y	TO ENGINE ROOM HARNESS
70G	L	TO ENGINE ROOM HARNESS
71G	R/W	TO ENGINE ROOM HARNESS
72G	L/W	TO ENGINE ROOM HARNESS
73G	SHIELD	TO ENGINE ROOM HARNESS
74G	W	TO ENGINE ROOM HARNESS
75G	R	TO ENGINE ROOM HARNESS
76G	R/G	TO ENGINE ROOM HARNESS
77G	BG	TO ENGINE ROOM HARNESS
78G	P	TO ENGINE ROOM HARNESS
79G	-	TO ENGINE ROOM HARNESS

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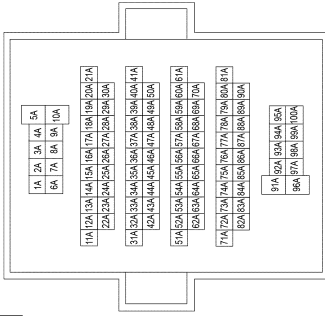
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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

ACCESSORY POWER SUPPLY CONNECTORS

Connector No.	M36
Connector Name	WIRE TO WIRE
Connector Type	TH80FDGY-CST6-TM4
Connector Color	GRAY



22A	G	TO BODY NO. 2 HARNESS
23A	Y	TO BODY NO. 2 HARNESS
24A	L	TO BODY NO. 2 HARNESS
25A	-	TO BODY NO. 2 HARNESS
26A	GR	TO BODY NO. 2 HARNESS
27A	LG	TO BODY NO. 2 HARNESS
28A	LG	TO BODY NO. 2 HARNESS
29A	GR	TO BODY NO. 2 HARNESS
30A	-	TO BODY NO. 2 HARNESS
31A	W/R	TO BODY NO. 2 HARNESS
32A	G/R	TO BODY NO. 2 HARNESS
33A	-	TO BODY NO. 2 HARNESS
34A	SHIELD	TO BODY NO. 2 HARNESS
35A	P	TO BODY NO. 2 HARNESS
36A	B	TO BODY NO. 2 HARNESS
37A	-	TO BODY NO. 2 HARNESS
38A	R/B	TO BODY NO. 2 HARNESS
39A	G/O	TO BODY NO. 2 HARNESS
40A	V	TO BODY NO. 2 HARNESS
41A	SHIELD	TO BODY NO. 2 HARNESS
42A	SHIELD	TO BODY NO. 2 HARNESS
43A	R	TO BODY NO. 2 HARNESS
44A	G	TO BODY NO. 2 HARNESS
45A	-	TO BODY NO. 2 HARNESS
46A	-	TO BODY NO. 2 HARNESS
47A	Y	TO BODY NO. 2 HARNESS
48A	R/W	TO BODY NO. 2 HARNESS
49A	R/L	TO BODY NO. 2 HARNESS
50A	B	TO BODY NO. 2 HARNESS
51A	-	TO BODY NO. 2 HARNESS
52A	-	TO BODY NO. 2 HARNESS
53A	-	TO BODY NO. 2 HARNESS
54A	-	TO BODY NO. 2 HARNESS
55A	-	TO BODY NO. 2 HARNESS
56A	-	TO BODY NO. 2 HARNESS
57A	-	TO BODY NO. 2 HARNESS
58A	-	TO BODY NO. 2 HARNESS
59A	-	TO BODY NO. 2 HARNESS
60A	G/W	TO BODY NO. 2 HARNESS
61A	-	TO BODY NO. 2 HARNESS
62A	-	TO BODY NO. 2 HARNESS
63A	-	TO BODY NO. 2 HARNESS
64A	-	TO BODY NO. 2 HARNESS
65A	-	TO BODY NO. 2 HARNESS
66A	-	TO BODY NO. 2 HARNESS
67A	-	TO BODY NO. 2 HARNESS
68A	-	TO BODY NO. 2 HARNESS
69A	Y/R	TO BODY NO. 2 HARNESS
70A	R/G	TO BODY NO. 2 HARNESS
71A	-	TO BODY NO. 2 HARNESS
72A	W	TO BODY NO. 2 HARNESS
73A	G	TO BODY NO. 2 HARNESS
74A	W	TO BODY NO. 2 HARNESS

76A	SHIELD	TO BODY NO. 2 HARNESS
76A	R	TO BODY NO. 2 HARNESS
77A	L	TO BODY NO. 2 HARNESS
78A	SHIELD	TO BODY NO. 2 HARNESS
79A	GR	TO BODY NO. 2 HARNESS
80A	V	TO BODY NO. 2 HARNESS
81A	R	TO BODY NO. 2 HARNESS
82A	SHIELD	TO BODY NO. 2 HARNESS
83A	R	TO BODY NO. 2 HARNESS
84A	O	TO BODY NO. 2 HARNESS
85A	SHIELD	TO BODY NO. 2 HARNESS
86A	W	TO BODY NO. 2 HARNESS
87A	B	TO BODY NO. 2 HARNESS
88A	W	TO BODY NO. 2 HARNESS
89A	SHIELD	TO BODY NO. 2 HARNESS
90A	G	TO BODY NO. 2 HARNESS
91A	W/L	TO BODY NO. 2 HARNESS
92A	BR	TO BODY NO. 2 HARNESS
93A	L/Y	TO BODY NO. 2 HARNESS
94A	R/L	TO BODY NO. 2 HARNESS
95A	BR	TO BODY NO. 2 HARNESS
96A	R	TO BODY NO. 2 HARNESS
97A	LG	TO BODY NO. 2 HARNESS
98A	B/V	TO BODY NO. 2 HARNESS
99A	O/V	TO BODY NO. 2 HARNESS
100A	BR/W	TO BODY NO. 2 HARNESS

Connector No.	M37
Connector Name	FUSE BLOCK (J/B)
Connector Type	L01FW-MC
Connector Color	WHITE



Terminal No.	1S	Color of Wire	W	Signal Name	BATTERY
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Connector No.	M66
Connector Name	WIRE TO WIRE
Connector Type	L02FB-MC
Connector Color	BLACK



Terminal No.	1	Color of Wire	W	Signal Name	TO ENGINE ROOM HARNESS
2	L	TO ENGINE ROOM HARNESS			

Connector No.	M70
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FBR-CS
Connector Color	BROWN




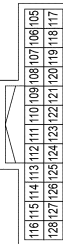
Terminal No.	1R	Color of Wire	L	Signal Name	TAIL LAMP 2
2R	G/R	IGNITION			
3R	Y/R	BATTERY			
4R	-	-			
5R	W	BATTERY			
6R	G/W	ACCESSORY			
7R	R	BATTERY			
8R	-	-			
9R	-	-			
10R	W	BATTERY			
11R	-	-			
12R	B/G	BATTERY			
13R	B	ACCESSORY			
14R	G/Y	BATTERY			
15R	Y	BATTERY			
16R	G/R	ACCESSORY			

POWER SUPPLY ROUTING CIRCUIT


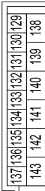
< WIRING DIAGRAM >

ACCESSORY POWER SUPPLY CONNECTORS



Connector No.	M80
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH24FB-NH
Connector Color	BLACK

Connector No.	M81
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FW-FHAG-SA
Connector Color	WHITE



Connector No.	M153
Connector Name	FRONT POWER SOCKET 2
Connector Type	PHA03FGY
Connector Color	GRAY

Terminal No.	Color of Wire	Signal Name
105	G/Y	FR FLASHER
106	-	-
107	W	LOW SIDE START SW LED
108	L/R	SHIFT LOCK SOLENOID OUT
109	-	-
110	-	-
111	P	ACC LED
112	-	-
113	L	ACC RELAY OUT
114	W	AS DOOR ANT A
115	BG	AS DOOR ANT B
116	W	ROOM ANT 2 A
117	G/B	FL FLASHER
118	-	-
119	R	RF NIMOCO
120	-	-
121	G	DR DOOR ANT B
122	P	DR DOOR ANT A
123	W	ROOM ANT 1 A
124	G	ROOM ANT 1 B
125	-	-
126	P	IMMO START BUTTON ANT B
127	BG	IMMO START BUTTON ANT A
128	B	ROOM ANT 2 B

Terminal No.	Color of Wire	Signal Name
129	R/G	BATTERY SAVER OUT
130	LG	SUPER LOCK/DOOR UNLOCK AS
131	W	BAT BCM FUSE
132	Y	DOOR LOCK AS/RR/RL
133	BR	DOOR UNLOCK AS/RR/RL
134	B	GND2
135	O	DOOR LOCK DR/AS/FL
136	L	ROOM LAMP CONT
137	V	DOOR UNLOCK DR/AS/FL
138	V	BAT REAR DOOR
139	W	BAT-POWER F/L
140	LG	P/W POWER SUPPLY IGN
141	V	P/W POWER SUPPLY BAT
142	Y	BAT FRONT DOOR
143	B	GND1


Connector No.	M88
Connector Name	ACCESSORY RELAY-2
Connector Type	MS02FL-M2-LC
Connector Color	BLUE

Terminal No.	Color of Wire	Signal Name
1	G/W	IGNITION
2	B	GND

Terminal No.	Color of Wire	Signal Name
1	G/R	IGNITION
2	B	GND

Connector No.	M157
Connector Name	FRONT POWER SOCKET 1
Connector Type	PHA03FGY
Connector Color	GRAY

Terminal No.	Color of Wire	Signal Name
1	B	GND
2	L	ACC RELAY OUT
3	R	ACC SW
5	W	BATTERY

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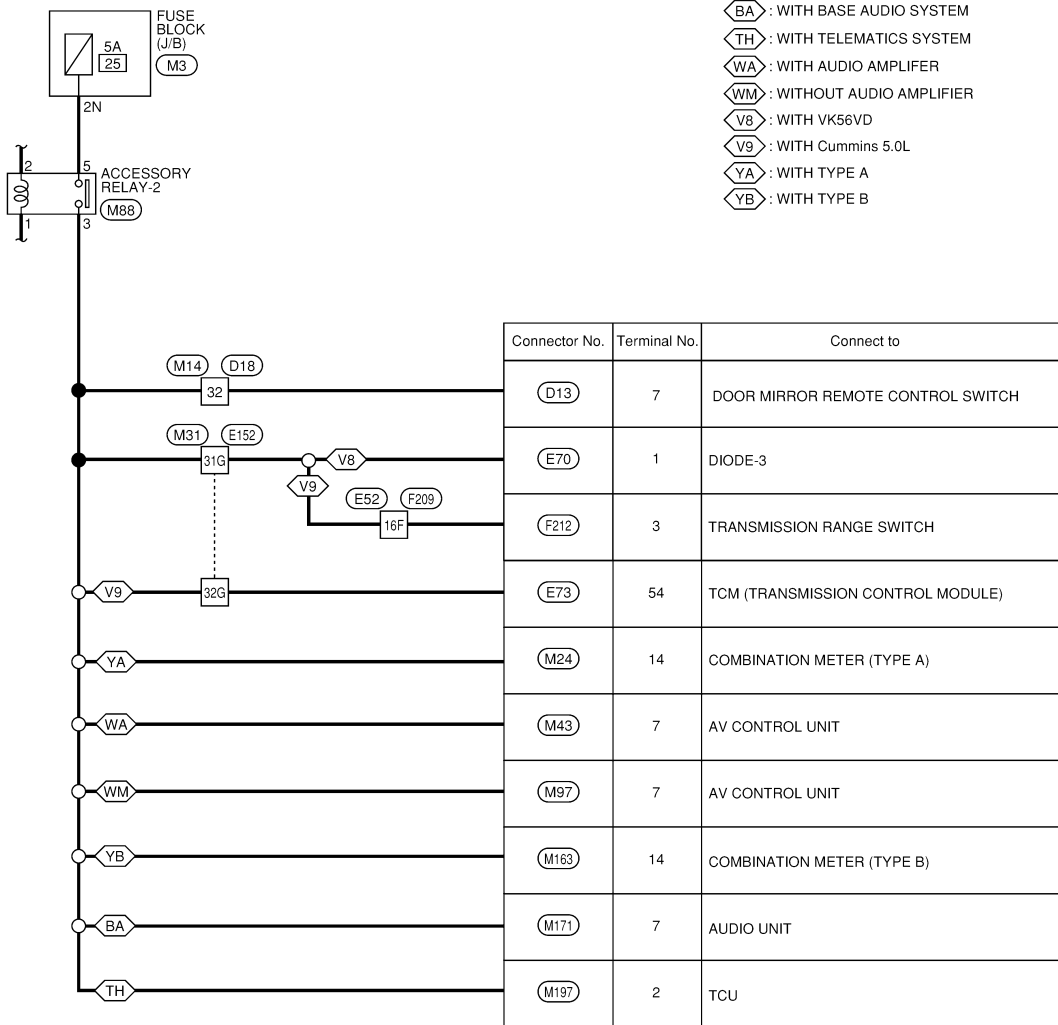
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - ACCESSORY POWER SUPPLY FUSE No. 25 -

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ACCESSORY POWER SUPPLY FUSE No. 25



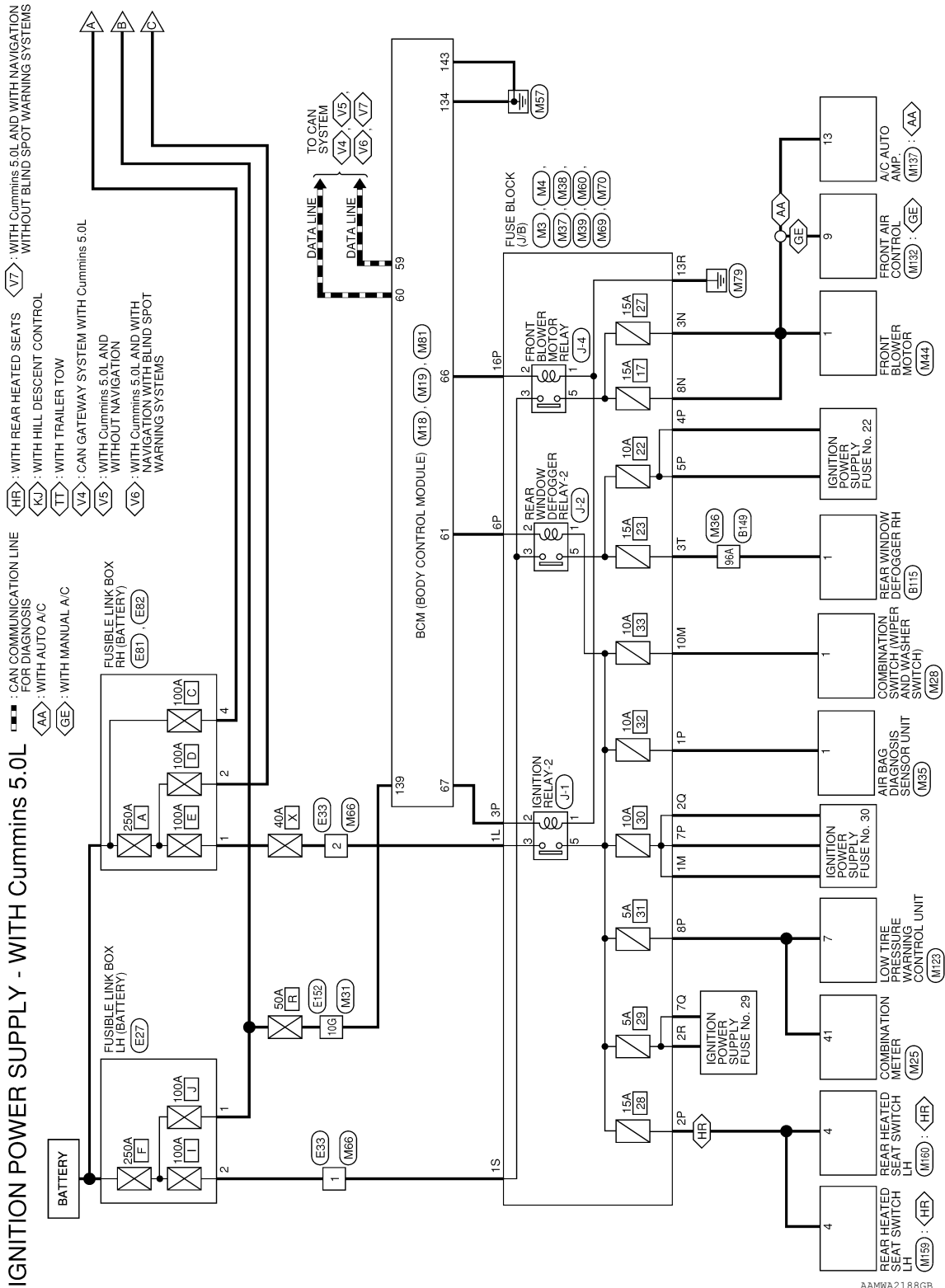
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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - IGNITION POWER SUPPLY - WITH Cummins 5.0L -

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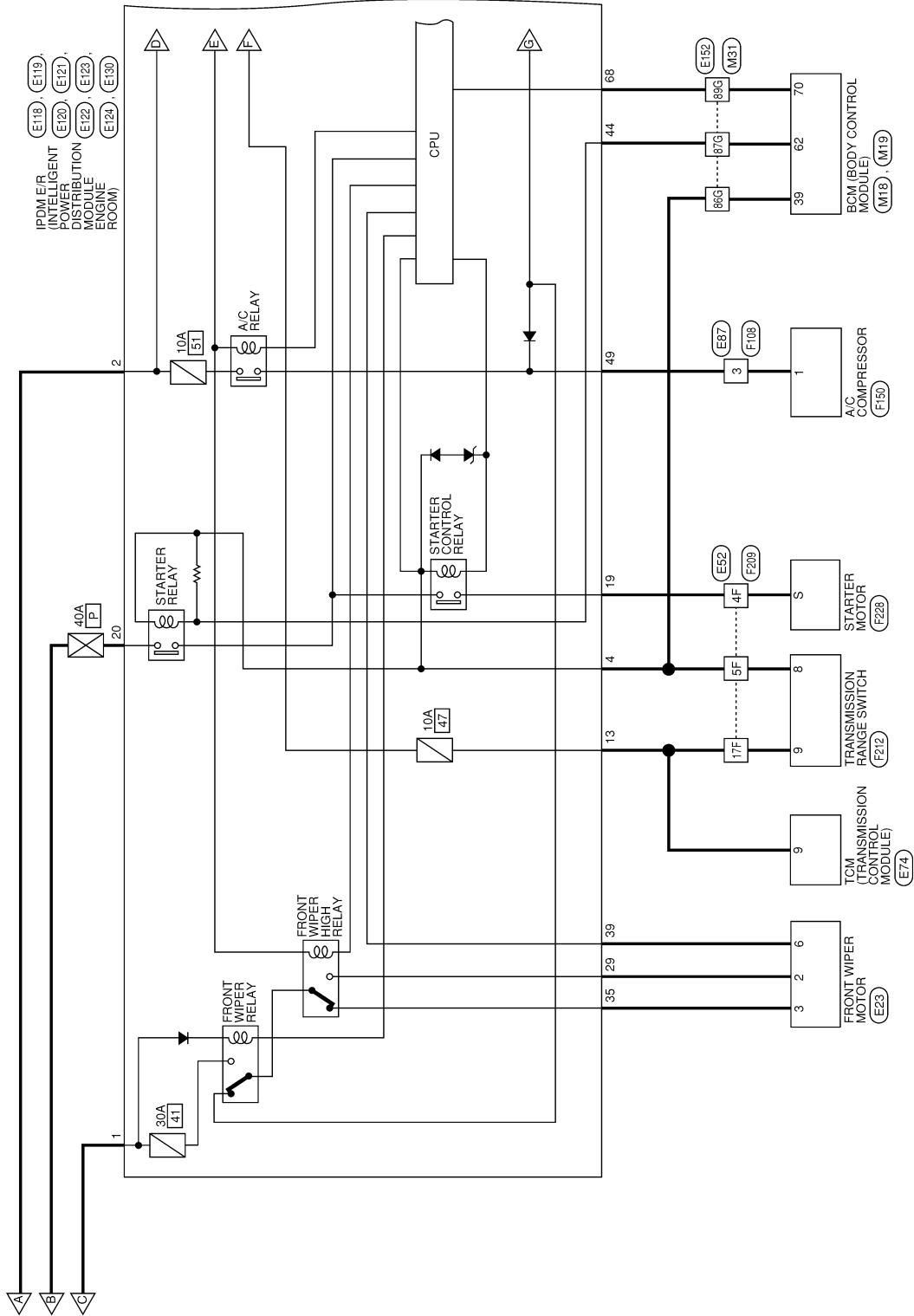
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POWER SUPPLY ROUTING CIRCUIT

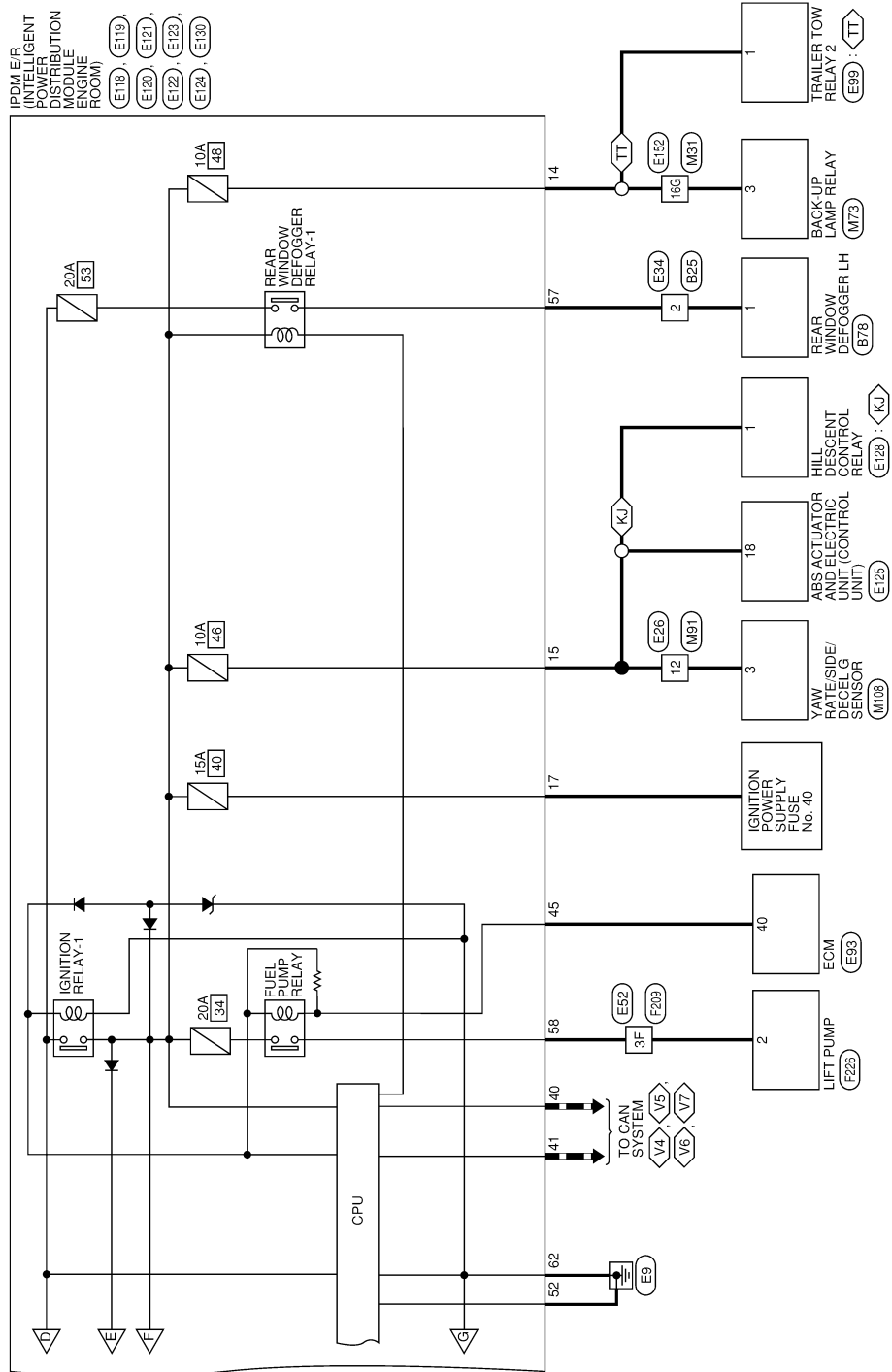
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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >



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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

IGNITION POWER SUPPLY CONNECTORS - WITH Cummins 5.0L

Connector No.	B25
Connector Name	WIRE TO WIRE
Connector Type	L02MB-1MC
Connector Color	BLACK

H.S.

1	2
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Terminal No.	Color of Wire	Signal Name
1	W	TO ENGINE ROOM HARNESS
2	W	TO ENGINE ROOM HARNESS

Connector No.	B78
Connector Name	REAR WINDOW DEFOGGER
Connector Type	M02MW-LC
Connector Color	WHITE

H.S.

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Terminal No.	Color of Wire	Signal Name
1	W	REAR WINDOW DEFOGGER RELAY
2	B	GROUND

Connector No.	B115
Connector Name	REAR WINDOW DEFOGGER
Connector Type	M02MW-LC
Connector Color	WHITE

H.S.

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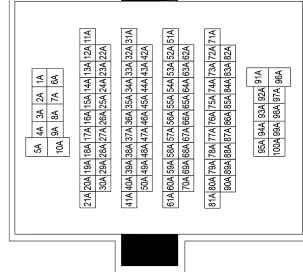
Terminal No.	Color of Wire	Signal Name

1	R	REAR WINDOW DEFOGGER RELAY 2 POWER
2	B	GROUND

Connector No.	B149
Connector Name	WIRE TO WIRE
Connector Type	TH80MDGY-CS16-TM4
Connector Color	GRAY

H.S.

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19A	20A	21A	22A	23A	24A	25A	26A	27A	28A	29A	30A	31A	32A	33A	34A	35A	36A	37A	38A	39A	40A	41A	42A	43A	44A	45A	46A	47A	48A	49A	50A	51A	52A	53A	54A	55A	56A	57A	58A	59A	60A	61A	62A	63A	64A	65A	66A	67A	68A	69A	70A	71A										
BR/Y	BR/Y	BG	LG/R	Y/LG	BR/Y	-	GR	LG	LG/B	-	-	W/R	G/R	-	SHIELD	P	B	-	R/B	G/O	V	SHIELD	SHIELD	R	G	-	-	Y	R/W	R/L	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS

72A	73A	74A	75A	76A	77A	78A	79A	80A	81A	82A	83A	84A	85A	86A	87A	88A	89A	90A	91A	92A	93A	94A	95A	96A	97A	98A	99A	100A	
Y/B	G	B/R	SHIELD	GR/R	L	SHIELD	Y	L	R	SHIELD	LG/B	R	SHIELD	GR/B	B	W	SHIELD	G	W/L	BR	L/Y	R/L	R	LG	B/V	O/L	BR/W		
TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	TO MAIN HARNESS	

Connector No.	E23
Connector Name	FRONT WIPER MOTOR
Connector Type	RS06FGY-PR
Connector Color	GRAY

H.S.

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Terminal No.	Color of Wire	Signal Name
1	B	GROUND
2	Y	H
3	BR	L
4	-	-
5	-	-
6	L/Y	P

POWER SUPPLY ROUTING CIRCUIT



< WIRING DIAGRAM >

IGNITION POWER SUPPLY CONNECTORS - WITH Cummins 5.0L

Connector No.	E26
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE



Connector No.	E27
Connector Name	FUSIBLE LINK BOX LH (BATTERY)
Connector Type	L02FBR-MC
Connector Color	BROWN

Terminal No.	Color of Wire	Signal Name
1	LG/B	TO MAIN HARNESS
2	R/W	TO MAIN HARNESS
3	Y/R	TO MAIN HARNESS
4	G/R	TO MAIN HARNESS
5	G/W	TO MAIN HARNESS
6	P	TO MAIN HARNESS
7	O	TO MAIN HARNESS
8	R	TO MAIN HARNESS
9	G	TO MAIN HARNESS
10	LG	TO MAIN HARNESS
11	BR	TO MAIN HARNESS
12	GR	TO MAIN HARNESS
13	G	TO MAIN HARNESS
14	BR	TO MAIN HARNESS
15	-	TO MAIN HARNESS
16	-	TO MAIN HARNESS
17	W	TO MAIN HARNESS
18	-	TO MAIN HARNESS
19	Y/R	TO MAIN HARNESS
20	G/W	TO MAIN HARNESS
21	-	TO MAIN HARNESS
22	-	TO MAIN HARNESS
23	-	TO MAIN HARNESS
24	O/L	TO MAIN HARNESS



Terminal No.	Color of Wire	Signal Name
1	B	BATTERY
2	W	BATTERY

Connector No.	E33
Connector Name	WIRE TO WIRE
Connector Type	L02MB-MC
Connector Color	BLACK

Terminal No.	Color of Wire	Signal Name
1	W	TO MAIN HARNESS
2	L	TO MAIN HARNESS

Connector No.	E34
Connector Name	WIRE TO WIRE
Connector Type	L02FB-MC
Connector Color	BLACK

Terminal No.	Color of Wire	Signal Name
1	W	TO BODY HARNESS
2	W/B	TO BODY HARNESS

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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

IGNITION POWER SUPPLY CONNECTORS - WITH Cummins 5.0L

Connector No.	E52
Connector Name	WIRE TO WIPE
Connector Type	RK26FGY-RS20-X6
Connector Color	GRAY

Terminal No.	Color of Wire	Signal Name
1F	Y	TO ENGINE CONTROL NO. 2 HARNESS
2F	B	TO ENGINE CONTROL NO. 2 HARNESS
3F	BR	TO ENGINE CONTROL NO. 2 HARNESS
4F	W/R	TO ENGINE CONTROL NO. 2 HARNESS
5F	B/R	TO ENGINE CONTROL NO. 2 HARNESS
6F	O	TO ENGINE CONTROL NO. 2 HARNESS
7F	GRAY	TO ENGINE CONTROL NO. 2 HARNESS
8F	V	TO ENGINE CONTROL NO. 2 HARNESS
9F	BR	TO ENGINE CONTROL NO. 2 HARNESS
10F	Y/B	TO ENGINE CONTROL NO. 2 HARNESS
11F	L	TO ENGINE CONTROL NO. 2 HARNESS
12F	R	TO ENGINE CONTROL NO. 2 HARNESS
13F	Y	TO ENGINE CONTROL NO. 2 HARNESS
14F	V	TO ENGINE CONTROL NO. 2 HARNESS
15F	SB	TO ENGINE CONTROL NO. 2 HARNESS
16F	P	TO ENGINE CONTROL NO. 2 HARNESS
17F	Y/R	TO ENGINE CONTROL NO. 2 HARNESS
18F	R	TO ENGINE CONTROL NO. 2 HARNESS
19F	V	TO ENGINE CONTROL NO. 2 HARNESS
20F	BR	TO ENGINE CONTROL NO. 2 HARNESS

Terminal No.	Color of Wire	Signal Name
21F	L/R	TO ENGINE CONTROL NO. 2 HARNESS
22F	L/W	TO ENGINE CONTROL NO. 2 HARNESS
23F	P/L	TO ENGINE CONTROL NO. 2 HARNESS
24F	W/L	TO ENGINE CONTROL NO. 2 HARNESS
25F	W/R	TO ENGINE CONTROL NO. 2 HARNESS
26F	B/R	TO ENGINE CONTROL NO. 2 HARNESS
27F	Y	TO ENGINE CONTROL NO. 2 HARNESS
28F	W/R	TO ENGINE CONTROL NO. 2 HARNESS
29F	L/O	TO ENGINE CONTROL NO. 2 HARNESS
30F	B	TO ENGINE CONTROL NO. 2 HARNESS
31F	B	TO ENGINE CONTROL NO. 2 HARNESS
32F	V/W	TO ENGINE CONTROL NO. 2 HARNESS
33F	GR	TO ENGINE CONTROL NO. 2 HARNESS
34F	L/R	TO ENGINE CONTROL NO. 2 HARNESS
35F	R/W	TO ENGINE CONTROL NO. 2 HARNESS
36F	L/B	TO ENGINE CONTROL NO. 2 HARNESS
37F	L	TO ENGINE CONTROL NO. 2 HARNESS
38F	P/Y	TO ENGINE CONTROL NO. 2 HARNESS
39F	P/Y	TO ENGINE CONTROL NO. 2 HARNESS
40F	B/R	TO ENGINE CONTROL NO. 2 HARNESS
41F	W	TO ENGINE CONTROL NO. 2 HARNESS
42F	Y	TO ENGINE CONTROL NO. 2 HARNESS
43F	B/P	TO ENGINE CONTROL NO. 2 HARNESS
44F	Y/B	TO ENGINE CONTROL NO. 2 HARNESS
45F	L/Y	TO ENGINE CONTROL NO. 2 HARNESS
46F	O	TO ENGINE CONTROL NO. 2 HARNESS
47F	W/R	TO ENGINE CONTROL NO. 2 HARNESS
48F	L	TO ENGINE CONTROL NO. 2 HARNESS
49F	BR	TO ENGINE CONTROL NO. 2 HARNESS
50F	SHIELD	TO ENGINE CONTROL NO. 2 HARNESS
51F	L	TO ENGINE CONTROL NO. 2 HARNESS

52F	BR	TO ENGINE CONTROL NO. 2 HARNESS
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Connector No.	E74
Connector Name	TCM (TRANSMISSION CONTROL MODULE) (WITH CUMMINS 5.0L)
Connector Type	AAH29FW-TK6
Connector Color	WHITE

Terminal No.	Color of Wire	Signal Name
1	-	-
2	Y	RANGE SIGNAL A
3	V	RANGE SIGNAL B
4	-	-
5	-	-
6	-	-
7	R	OUTPUT SPEED SENSOR (+)
8	R	IGN
9	Y/R	RANGE SIGNAL C
10	L	OIL PRESSURE SWITCH
11	GR	-
12	-	-
13	-	-
14	-	-
15	-	-
16	-	-
17	B/R	INPUT SPEED SENSOR (-)
18	-	-
19	Y	OUTPUT SPEED SENSOR (-)
20	-	-
21	GRAY	RANGE SIGNAL PA
22	-	-
23	-	-
24	-	-
25	-	-
26	-	-
27	W/R	INPUT SPEED SENSOR (+)
28	-	-
29	-	-
30	-	-
31	-	-
32	-	-
33	-	-
34	-	-

35	-	-
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Connector No.	E81
Connector Name	FUSIBLE LINK BOX RH (BATTERY)
Connector Type	LO2FBR-MC
Connector Color	BROWN

Terminal No.	Color of Wire	Signal Name
1	B/L	BATTERY
2	B/Y	BATTERY

Connector No.	E82
Connector Name	FUSIBLE LINK BOX RH (BATTERY)
Connector Type	LO2FGY-MC
Connector Color	GRAY

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

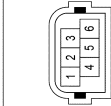
AAMIA452 6GB

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

IGNITION POWER SUPPLY CONNECTORS - WITH Cummins 5.0L

Connector No.	E87
Connector Name	WIRE TO WIRE
Connector Type	54200608
Connector Color	BLACK



H.S.

Terminal No.	Color of Wire	Signal Name
1	-	TO ENGINE CONTROL HARNESS - DIESEL
2	P	TO ENGINE CONTROL HARNESS - DIESEL
3	Y/B	TO ENGINE CONTROL HARNESS - DIESEL
4	-	TO ENGINE CONTROL HARNESS - DIESEL
5	B	TO ENGINE CONTROL HARNESS - DIESEL
6	L/W	TO ENGINE CONTROL HARNESS - DIESEL

Connector No.	E93
Connector Name	ECM (WITH CUMMINS 5.0L)
Connector Type	1-928-405-452
Connector Color	BLACK



H.S.

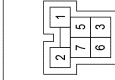
Terminal No.	Color of Wire	Signal Name
1	B	GROUND
2	B	GROUND
3	BR	SW BATTERY
4	B	GROUND
5	BR	SW BATTERY
6	BR	SW BATTERY
7	O	DOF DELTA PRESS
8	-	-
9	-	-
10	-	-
11	-	-
12	-	-
13	-	-

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14	-	-	-	-	-
15	L/R	-	AT SENSOR RTN CAN-L	-	-
16	P	-	-	-	-
17	-	-	-	-	-
18	G	-	J1939 +	-	-
19	-	-	-	-	-
20	G	-	SMART POWER LSD	-	-
21	-	-	-	-	-
22	-	-	-	-	-
23	-	-	-	-	-
24	SB	-	DPF OUT PRESS	-	-
25	-	-	-	-	-
26	R/L	-	REF PRESS SENS SIGNAL	-	-
27	-	-	-	-	-
28	-	-	-	-	-
29	-	-	-	-	-
30	-	-	-	-	-
31	-	-	-	-	-
32	Y	-	AT SSR SUPPLY	-	-
33	L	-	CAN-H	-	-
34	-	-	-	-	-
35	Y	-	J1939 +	-	-
36	-	-	-	-	-
37	L	-	MAIN RLY LSD	-	-
38	-	-	-	-	-
39	-	-	-	-	-
40	GR	-	FUEL PUMP RLY SIG	-	-
41	BR	-	SW RETURN	-	-
42	-	-	-	-	-
43	-	-	-	-	-
44	-	-	-	-	-
45	-	-	-	-	-
46	-	-	-	-	-
47	-	-	-	-	-
48	-	-	-	-	-
49	-	-	-	-	-
50	-	-	-	-	-
51	-	-	-	-	-
52	-	-	-	-	-
53	R/G	-	BRAKE SW OPEN	-	-
54	L	-	BRAKE NC	-	-
55	-	-	-	-	-
56	-	-	-	-	-
57	-	-	-	-	-
58	-	-	-	-	-
59	G/Y	-	ASC SIGNAL	-	-
60	-	-	-	-	-
61	B/Y	-	ASC RETURN	-	-
62	R	-	PPS1 RETURN	-	-
63	R	-	PPS1 RETURN	-	-
64	R/W	-	REF PRESS SENS RETURN	-	-
65	L/W	-	IGNKEYSWITCH	-	-
66	-	-	-	-	-

67	-	-	-	-	-
68	-	-	-	-	-
69	-	-	-	-	-
70	-	-	-	-	-
71	-	-	-	-	-
72	-	-	-	-	-
73	B	-	DOSER RETURN	-	-
74	GR/R	-	DOSER HS	-	-
75	L/W	-	COOLANT SIGNAL	-	-
76	-	-	-	-	-
77	L	-	W/F SIGNAL	-	-
78	L	-	PPS2 SIGNAL	-	-
79	BR	-	PPS1 SIGNAL	-	-
80	W	-	PPS1 SUPPLY	-	-
81	B	-	PPS2 SUPPLY	-	-
82	-	-	-	-	-
83	BR	-	BATTERY	-	-
84	-	-	-	-	-
85	-	-	-	-	-
86	-	-	-	-	-
87	-	-	-	-	-
88	-	-	-	-	-
89	-	-	-	-	-
90	-	-	-	-	-
91	-	-	-	-	-

Connector No.	E99
Connector Name	TRAILER TOW RELAY 2
Connector Type	M06FBR-R-LC
Connector Color	BROWN



H.S.

Terminal No.	Color of Wire	Signal Name
1	G	RELAY CONT
2	B	GROUND
3	Y	BATTERY
5	W/L	POWER (7 PIN)
6	Y	BATTERY
7	W/L	POWER (7 PIN)

Connector No.	E118
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	L02FB-MC
Connector Color	BLACK



H.S.

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

A B C D E F G H I J K L N O P PG

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

IGNITION POWER SUPPLY CONNECTORS - WITH Cummins 5.0L

Connector No.	E119
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS16FW-CS
Connector Color	WHITE



9	8	7	6	5	4	3
18	17	16	15	14	13	12
11	10					

Terminal No.	Color of Wire	Signal Name
3	-	-
4	B/R	NP SW
5	L/W	H/LAMP HI RH
6	G	H/LAMP HI LH
7	L	H/LAMP LO LH
8	R/Y	H/LAMP LO RH
9	G/W	FR FOG/L LH
10	-	-
11	P	ETC VB - (WITH CUMMINS 5.0L)
12	W/R	FR FOG/L RH
13	Y/R	A/T ECU IGN
14	G	REVERSE LAMP IGN
15	GR	ABS ECU IGN
16	G	ETC RLY CONT - (WITH CUMMINS 5.0L)
16	V/R	ETC RLY CONT - (WITH VK66VD)
17	L/W	IGN COIL - (WITH CUMMINS 5.0L)
17	W	IGN COIL - (WITH VK66VD)
18	-	-

Connector No.	E120
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	M06FW-LC
Connector Color	WHITE



21	20	19
24	23	22

Terminal No.	Color of Wire	Signal Name
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19	W/R	STARTER MOTOR
20	L	F/L IGN SW
21	-	-
22	-	-
23	-	-
24	-	-

Connector No.	E121
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS12FBR-CS
Connector Color	BROWN



29	28	27	26	25
36	35	34	33	32
31	30			

Terminal No.	Color of Wire	Signal Name
25	W	ECM VB - (WITH VK66VD)
25	BR	ECM VB - (WITH CUMMINS 5.0L)
26	V	02 SENS - (WITH VK66VD)
27	R/L	PARKING RH
28	R/L	TAIL 1
29	Y	FR WIPER HI
30	-	-
31	L	ECM RLY CONT
32	L	ECM BAT - (WITH VK66VD)
33	R/L	PARKING LH
34	R/W	TAIL 2
35	BR	FR WIPER LO
36	-	-

Connector No.	E122
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH12FW-NH
Connector Color	WHITE



42	41	40	39	38	37
48	47	46	45	44	43

Terminal No.	Color of Wire	Signal Name
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37	-	-
38	-	-
39	L/Y	WIPER AUTO STOP SW
40	P	CAN-L
41	L	CAN-H
42	BR	DTFL RLY
43	-	-
44	W/B	START CONT
45	GR	FUEL RLY CONT
46	Y	HOOD SW
47	Y	ALT C - (WITH VK66VD)
48	R/W	HORN RLY CONT

Connector No.	E123
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS08FBR-CS
Connector Color	BROWN



51	50	49
56	55	54
53	52	

Terminal No.	Color of Wire	Signal Name
49	GR/R	A/C COMP - (WITH VK66VD)
49	Y/B	A/C COMP - (WITH CUMMINS 5.0L)
50	BR	TRAILER TOW
51	-	-
52	B	S-GND
53	-	-
54	-	-
55	-	-
56	-	-

Connector No.	E124
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	M06FB-LC
Connector Color	BLACK



59	58	57
62	61	60

Terminal No.	Color of Wire	Signal Name
57	W/B	RR DEF
58	BR	FUEL PUMP - (WITH CUMMINS 5.0L)
58	B/Y	FUEL PUMP - (WITH VK66VD)
59	-	-
60	-	-
61	-	-
62	B	P GND

POWER SUPPLY ROUTING CIRCUIT

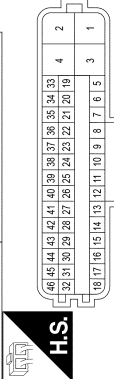
< WIRING DIAGRAM >

IGNITION POWER SUPPLY CONNECTORS - WITH Cummins 5.0L

69	-	-	-
70	-	-	-
71	SB	-	HOOD SW2
72	W	-	E-CPLG - (WITH VK68WD)

38	-	-	-
39	G	-	VDC OFF
40	-	-	-
41	L	-	CAN-H
42	-	-	-
43	G/W	-	HDC ON
44	-	-	-
45	-	-	-
46	W	-	STPO

Connector No.	E125
Connector Name	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
Connector Type	SAZ42FB-SJZ4
Connector Color	BLACK



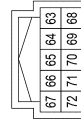
Connector No.	E128
Connector Name	HILL DESCENT CONTROL RELAY
Connector Type	MS02FL-M2-LC
Connector Color	BLUE



Terminal No.	Color of Wire	Signal Name
1	G	ABS SOL
2	B	GND 1
3	B	GND 2
4	W	MTR POWER 1
5	-	-
6	-	-
7	-	-
8	-	-
9	BR	YG CAN-H
10	LG	YG CAN-L
11	-	-
12	-	-
13	P/B	LBL
14	-	-
15	-	-
16	-	-
17	R/B	STP2
18	GR	IGN 1
19	V	FR-SENS-
20	SB	FL SENS+
21	R	RR SENS-
22	V	RL SENS+
23	-	-
24	-	-
25	-	-
26	-	-
27	P	CAN-L
28	-	-
29	-	-
30	-	-
31	-	-
32	-	-
33	LG	FR SENS+
34	LG	FL SENS-
35	BR	RR SENS+
36	P	RL SENS-
37	P/G	STP

Terminal No.	Color of Wire	Signal Name
1	GR	IGN1
2	W	STPO
3	R/Y	BATTERY
5	R/G	IGNITION

Connector No.	E130
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH10FB-NH
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
63	-	-
64	R	DETENT SW
65	-	-
66	P	PUSH START SW
67	-	-
68	L	IGN SIGNAL

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A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P

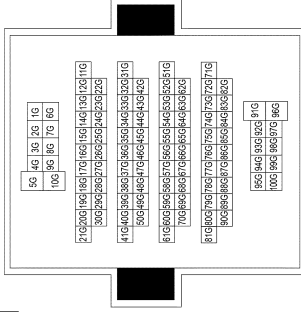


POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

IGNITION POWER SUPPLY CONNECTORS - WITH Cummins 5.0L

Connector No.	E152
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CST6-TM4
Connector Color	WHITE

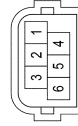


Terminal No.	Color of Wire	Signal Name
1G	G	TO MAIN HARNESS
2G	B/R	TO MAIN HARNESS
3G	W/B	TO MAIN HARNESS
4G	B/W	TO MAIN HARNESS
5G	BR	TO MAIN HARNESS
6G	P	TO MAIN HARNESS - (WITH VCS8VD)
6G	R/W	TO MAIN HARNESS - (WITH CUMMINS 5.0L)
7G	Y	TO MAIN HARNESS
8G	G	TO MAIN HARNESS
9G	R	TO MAIN HARNESS
10G	W	TO MAIN HARNESS
11G	R/G	TO MAIN HARNESS
12G	W/B	TO MAIN HARNESS
13G	BR	TO MAIN HARNESS
14G	Y/B	TO MAIN HARNESS
15G	G/W	TO MAIN HARNESS
16G	G	TO MAIN HARNESS
17G	G/Y	TO MAIN HARNESS
18G	G/Y	TO MAIN HARNESS
19G	Y/W	TO MAIN HARNESS
20G	G/Y	TO MAIN HARNESS
21G	B/Y	TO MAIN HARNESS
22G	G/R	TO MAIN HARNESS
23G	Y/R	TO MAIN HARNESS

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72G	L/W	TO MAIN HARNESS
73G	SHIELD	TO MAIN HARNESS
74G	W	TO MAIN HARNESS
75G	R	TO MAIN HARNESS
76G	R/G	TO MAIN HARNESS
77G	G	TO MAIN HARNESS
78G	W	TO MAIN HARNESS
79G	-	TO MAIN HARNESS
80G	R	TO MAIN HARNESS
81G	L	TO MAIN HARNESS
82G	R	TO MAIN HARNESS
83G	L	TO MAIN HARNESS
84G	L	TO MAIN HARNESS
85G	W/B	TO MAIN HARNESS
86G	B/R	TO MAIN HARNESS
87G	W/B	TO MAIN HARNESS
88G	P	TO MAIN HARNESS
89G	L	TO MAIN HARNESS
90G	G	TO MAIN HARNESS
91G	G	TO MAIN HARNESS
92G	V/W	TO MAIN HARNESS
93G	BR	TO MAIN HARNESS
94G	G	TO MAIN HARNESS
95G	G	TO MAIN HARNESS
96G	W	TO MAIN HARNESS
97G	R	TO MAIN HARNESS
98G	W/B	TO MAIN HARNESS
99G	BR	TO MAIN HARNESS
100G	GR/W	TO MAIN HARNESS

Connector No.	F108
Connector Name	WIRE TO WIRE
Connector Type	54200612
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	-	TO ENGINE ROOM HARNESS
2	O	TO ENGINE ROOM HARNESS
3	R/V	TO ENGINE ROOM HARNESS
4	-	TO ENGINE ROOM HARNESS
5	P	TO ENGINE ROOM HARNESS
6	R/V	TO ENGINE ROOM HARNESS

Connector No.	F150
Connector Name	A/C COMPRESSOR (WITH CUMMINS 5.0L)
Connector Type	6185-0862
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	R/V	A/C COMP


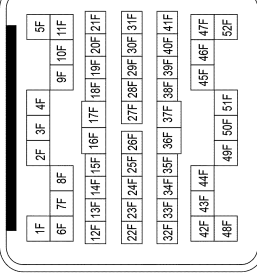
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

IGNITION POWER SUPPLY CONNECTORS - WITH Cummins 5.0L

-	-
Y	COMBI SW OUTPUT 3
/W	FRONT WASHER MOTOR +
L	COMBI SW INPUT 3
SB	COMBI SW OUTPUT 5
3/B	COMBI SW INPUT 2
P	COMBI SW INPUT 4
3/W	COMBI SW INPUT 1
V	COMBI SW OUTPUT 1
/W	COMBI SW INPUT 5
3/B	COMBI SW OUTPUT 2

Connector No.	F209
Connector Name	WIRE TO WIRE
Connector Type	RK26M(GY-RS20-X6
Connector Color	GRAY






34F	L/R	TO ENGINE ROOM HARNESS
35F	R/W	TO ENGINE ROOM HARNESS
36F	L/B	TO ENGINE ROOM HARNESS
37F	L/O	TO ENGINE ROOM HARNESS
38F	Y/W	TO ENGINE ROOM HARNESS
39F	R/Y	TO ENGINE ROOM HARNESS
40F	G/B	TO ENGINE ROOM HARNESS
41F	W	TO ENGINE ROOM HARNESS
42F	Y	TO ENGINE ROOM HARNESS
43F	B/P	TO ENGINE ROOM HARNESS
44F	Y/B	TO ENGINE ROOM HARNESS
45F	L/Y	TO ENGINE ROOM HARNESS
46F	O	TO ENGINE ROOM HARNESS
47F	W/L	TO ENGINE ROOM HARNESS
48F	L	TO ENGINE ROOM HARNESS
49F	BR	TO ENGINE ROOM HARNESS
50F	SHIELD	TO ENGINE ROOM HARNESS
51F	L	TO ENGINE ROOM HARNESS
52F	BR	TO ENGINE ROOM HARNESS

Terminal No.	Color of Wire	Signal Name
1F	Y/R	TO ENGINE ROOM HARNESS
2F	B	TO ENGINE ROOM HARNESS
3F	B/Y	TO ENGINE ROOM HARNESS
4F	W/R	TO ENGINE ROOM HARNESS
5F	B/R	TO ENGINE ROOM HARNESS
6F	O/L	TO ENGINE ROOM HARNESS
7F	GR	TO ENGINE ROOM HARNESS
8F	P	TO ENGINE ROOM HARNESS
9F	BR/W	TO ENGINE ROOM HARNESS
10F	G/Y	TO ENGINE ROOM HARNESS
11F	L/W	TO ENGINE ROOM HARNESS
12F	R/W	TO ENGINE ROOM HARNESS
13F	G/Y	TO ENGINE ROOM HARNESS
14F	V/W	TO ENGINE ROOM HARNESS
15F	LG	TO ENGINE ROOM HARNESS
16F	R/Y	TO ENGINE ROOM HARNESS
17F	R	TO ENGINE ROOM HARNESS
18F	R	TO ENGINE ROOM HARNESS
19F	V	TO ENGINE ROOM HARNESS
20F	BR	TO ENGINE ROOM HARNESS
21F	L/R	TO ENGINE ROOM HARNESS
22F	L/LG	TO ENGINE ROOM HARNESS
23F	SB	TO ENGINE ROOM HARNESS
24F	W/L	TO ENGINE ROOM HARNESS
25F	W/B	TO ENGINE ROOM HARNESS
26F	B/Y	TO ENGINE ROOM HARNESS
27F	Y	TO ENGINE ROOM HARNESS
28F	W/R	TO ENGINE ROOM HARNESS
29F	L/O	TO ENGINE ROOM HARNESS
30F	B	TO ENGINE ROOM HARNESS
31F	B	TO ENGINE ROOM HARNESS
32F	V	TO ENGINE ROOM HARNESS
33F	BG	TO ENGINE ROOM HARNESS



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Connector No.	F226
Connector Name	LIFT PUMP
Connector Type	RS02FB
Connector Color	BLACK


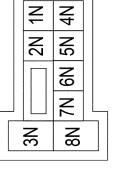
Terminal No.	Color of Wire	Signal Name
1	B	GROUND
2	B/Y	FUEL PUMP RELAY

Connector No.	F228
Connector Name	STARTER MOTOR (WITH CUMMINS 5.0L)
Connector Type	X01FGY
Connector Color	GRAY

Terminal No.	Color of Wire	Signal Name
S	W/R	STARTER RELAY


Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	CS06FM-M2
Connector Color	WHITE

Terminal No.	Color of Wire	Signal Name
1N	O	IGN
2N	W	BATTERY
3N	W	IGNITION
4N	V	BATTERY

5N	Y	BATTERY
6N	W	BATTERY
7N	L	ACC RELAY OUT
8N	W	IGNITION

Connector No.	M4
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FW-CS
Connector Color	WHITE



7P	6P	5P	4P	3P	2P	1P		
16P	15P	14P	13P	12P	11P	10P	9P	8P

Terminal No.	Color of Wire	Signal Name
1P	R	IGNITION
2P	Y	IGNITION
3P	G	IGNITION RELAY OUT
4P	B/W	RR DEF RLY
5P	B/W	RR DEF RLY
6P	O	RR DEF RLY OUT
7P	G	IGNITION
8P	W	IGNITION
9P	L	BATTERY
10P	-	-
11P	-	-
12P	-	-
13P	R	BATTERY
14P	Y	BATTERY
15P	Y/LG	BATTERY
16P	W	BLOWER FAN RELAY OUT

A B C D E F G H I J K L O P

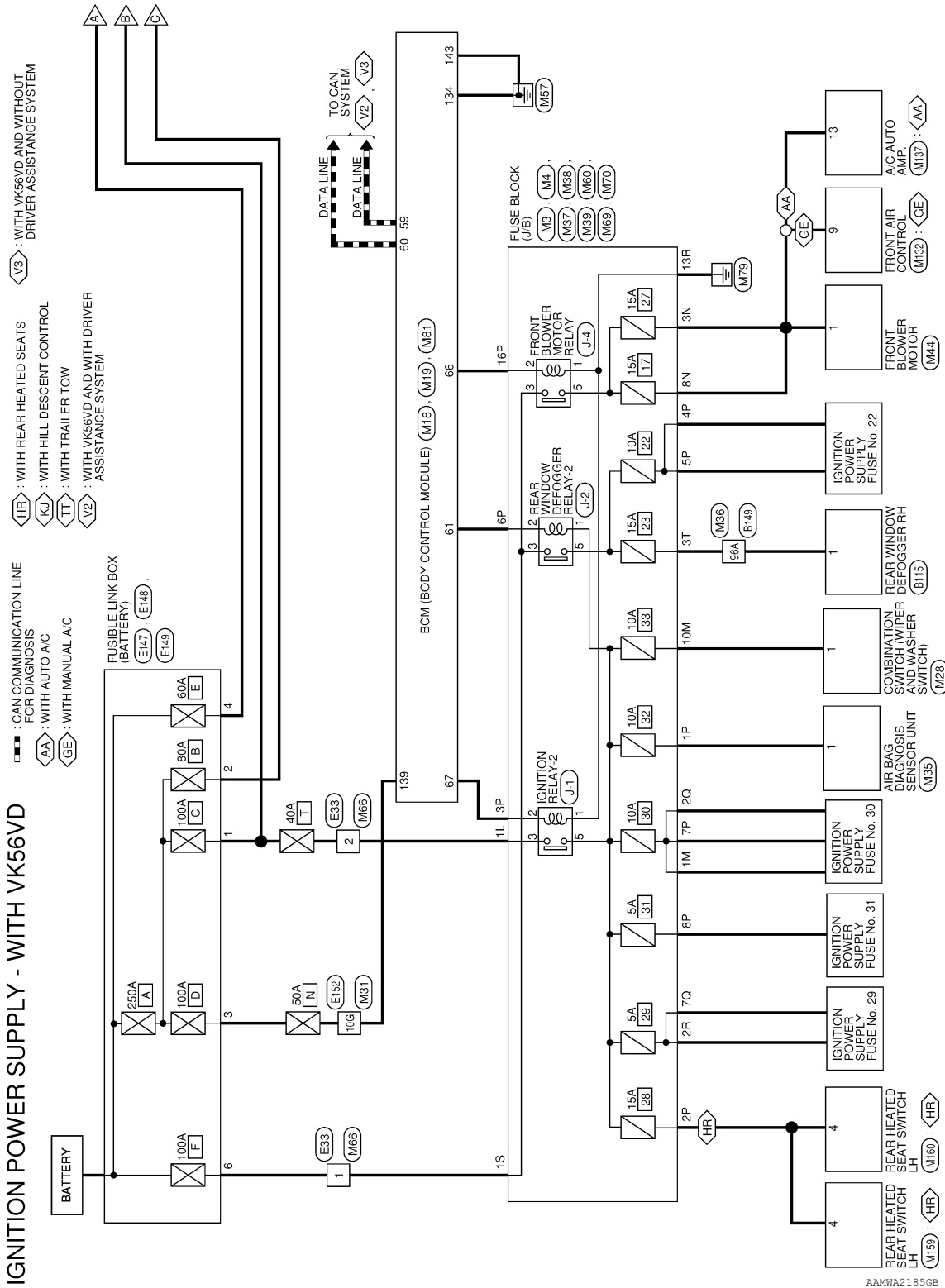
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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - IGNITION POWER SUPPLY - WITH VK56VD -

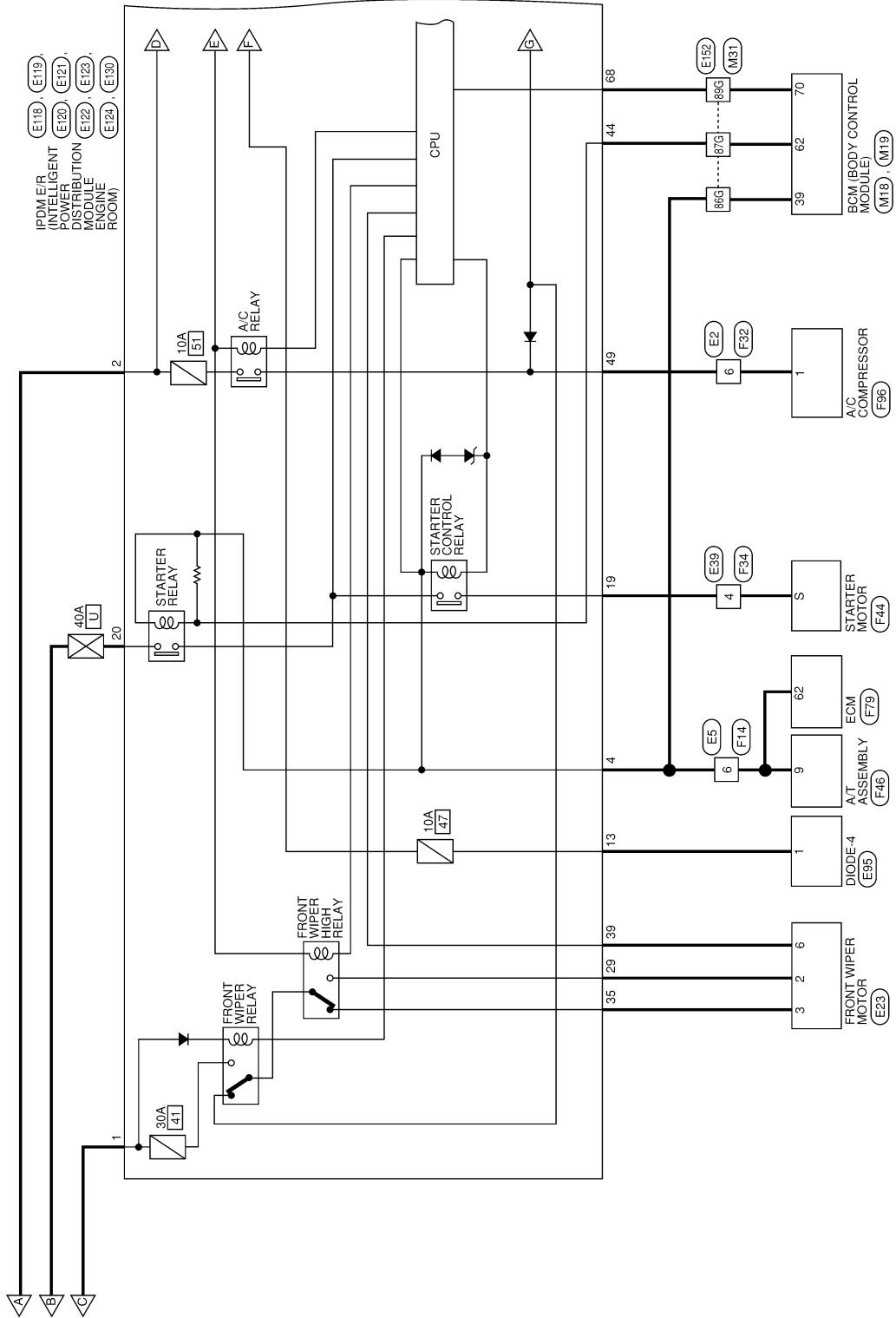
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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

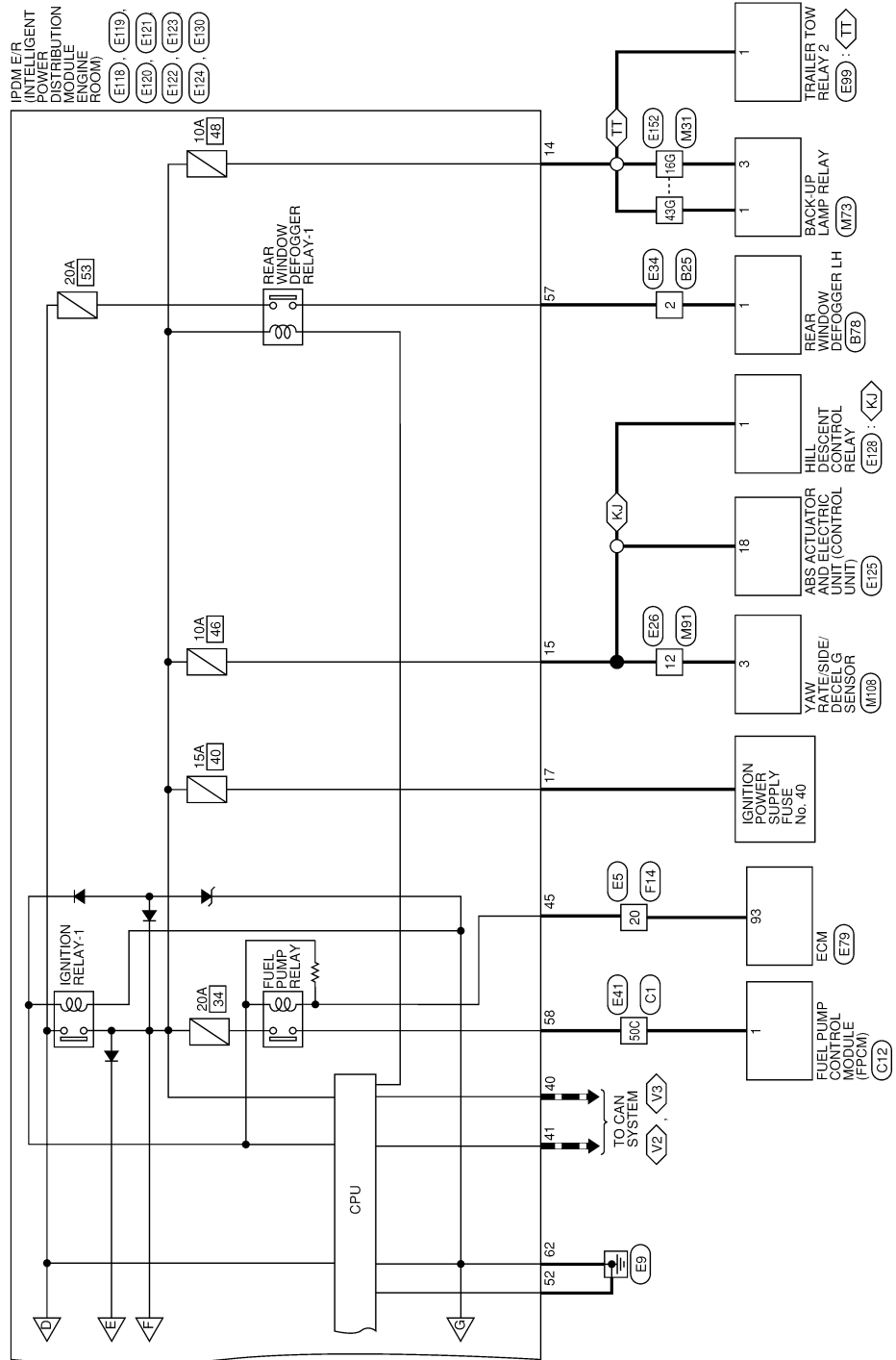


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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >



AAMWA2187GB

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

IGNITION POWER SUPPLY CONNECTORS - WITH VK56VD

Connector No.	B25
Connector Name	WIRE TO WIRE
Connector Type	L02MB-MC
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	W	TO ENGINE ROOM HARNESS
2	W	TO ENGINE ROOM HARNESS

Connector No.	B78
Connector Name	REAR WINDOW DEFOGGER
Connector Type	M02MW-LC
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	W	REAR WINDOW DEFOGGER RELAY
2	B	GROUND

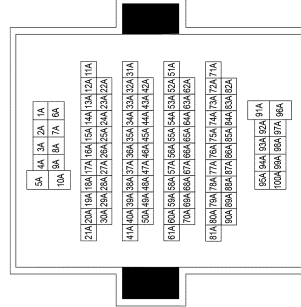
Connector No.	B115
Connector Name	REAR WINDOW DEFOGGER
Connector Type	M02MW-LC
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	W	REAR WINDOW DEFOGGER RELAY
2	B	GROUND

1	R	REAR WINDOW DEFOGGER RELAY 2 POWER
2	B	GROUND

Connector No.	B149
Connector Name	WIRE TO WIRE
Connector Type	TH80MDGY-CS16-TM4
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
1A	SB/G	TO MAIN HARNESS - (WITHOUT CLIMATE CONTROLLED SEATS)
1A	SB	TO MAIN HARNESS - (WITH CLIMATE CONTROLLED SEATS)
2A	L	TO MAIN HARNESS
3A	V	TO MAIN HARNESS
4A	SB/R	TO MAIN HARNESS
5A	-	TO MAIN HARNESS
6A	LG/Y	TO MAIN HARNESS - (WITHOUT CLIMATE CONTROLLED SEATS)
6A	LG	TO MAIN HARNESS - (WITH CLIMATE CONTROLLED SEATS)
7A	W	TO MAIN HARNESS
8A	B	TO MAIN HARNESS
9A	L/B	TO MAIN HARNESS
10A	W	TO MAIN HARNESS
11A	LG	TO MAIN HARNESS
12A	BR/O	TO MAIN HARNESS
13A	Y/W	TO MAIN HARNESS
14A	R/G	TO MAIN HARNESS
15A	Y/L	TO MAIN HARNESS
16A	O/L	TO MAIN HARNESS
17A	L	TO MAIN HARNESS
18A	Y	TO MAIN HARNESS

19A	LG	TO MAIN HARNESS
20A	BR/Y	TO MAIN HARNESS
21A	BG	TO MAIN HARNESS
22A	LG/R	TO MAIN HARNESS
23A	Y/LG	TO MAIN HARNESS
24A	BR/Y	TO MAIN HARNESS
25A	-	TO MAIN HARNESS
26A	GR	TO MAIN HARNESS
27A	LG	TO MAIN HARNESS
28A	LG/B	TO MAIN HARNESS
29A	-	TO MAIN HARNESS
30A	-	TO MAIN HARNESS
31A	W/R	TO MAIN HARNESS
32A	G/R	TO MAIN HARNESS
33A	-	TO MAIN HARNESS
34A	SHIELD	TO MAIN HARNESS
35A	P	TO MAIN HARNESS
36A	B	TO MAIN HARNESS
37A	-	TO MAIN HARNESS
38A	R/B	TO MAIN HARNESS
39A	G/O	TO MAIN HARNESS
40A	V	TO MAIN HARNESS
41A	SHIELD	TO MAIN HARNESS
42A	SHIELD	TO MAIN HARNESS
43A	R	TO MAIN HARNESS
44A	G	TO MAIN HARNESS
45A	-	TO MAIN HARNESS
46A	-	TO MAIN HARNESS
47A	Y	TO MAIN HARNESS
48A	R/W	TO MAIN HARNESS
49A	R/L	TO MAIN HARNESS
50A	B	TO MAIN HARNESS
51A	-	TO MAIN HARNESS
52A	-	TO MAIN HARNESS
53A	-	TO MAIN HARNESS
54A	-	TO MAIN HARNESS
55A	-	TO MAIN HARNESS
56A	-	TO MAIN HARNESS
57A	-	TO MAIN HARNESS
58A	-	TO MAIN HARNESS
59A	-	TO MAIN HARNESS
60A	G/W	TO MAIN HARNESS
61A	-	TO MAIN HARNESS
62A	-	TO MAIN HARNESS
63A	-	TO MAIN HARNESS
64A	-	TO MAIN HARNESS
65A	-	TO MAIN HARNESS
66A	-	TO MAIN HARNESS
67A	-	TO MAIN HARNESS
68A	-	TO MAIN HARNESS
69A	Y/R	TO MAIN HARNESS
70A	R/G	TO MAIN HARNESS
71A	-	TO MAIN HARNESS

72A	Y/B	TO MAIN HARNESS
73A	G	TO MAIN HARNESS
74A	B/R	TO MAIN HARNESS
75A	SHIELD	TO MAIN HARNESS
76A	GR/R	TO MAIN HARNESS
77A	L	TO MAIN HARNESS
78A	SHIELD	TO MAIN HARNESS
79A	Y	TO MAIN HARNESS
80A	L	TO MAIN HARNESS
81A	R	TO MAIN HARNESS
82A	SHIELD	TO MAIN HARNESS
83A	LG/B	TO MAIN HARNESS
84A	R	TO MAIN HARNESS
85A	SHIELD	TO MAIN HARNESS
86A	GR/B	TO MAIN HARNESS
87A	B	TO MAIN HARNESS
88A	W	TO MAIN HARNESS
89A	SHIELD	TO MAIN HARNESS
90A	G	TO MAIN HARNESS
91A	W/L	TO MAIN HARNESS
92A	BR	TO MAIN HARNESS
93A	LY	TO MAIN HARNESS
94A	R/L	TO MAIN HARNESS
95A	BR	TO MAIN HARNESS
96A	R	TO MAIN HARNESS
97A	LG	TO MAIN HARNESS
98A	B/V	TO MAIN HARNESS
99A	O/L	TO MAIN HARNESS
100A	BR/W	TO MAIN HARNESS


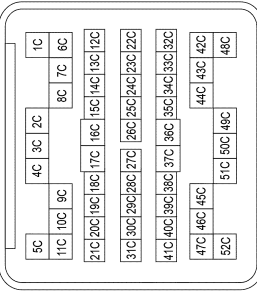
A B C D E F G H I J K L O P PG

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

IGNITION POWER SUPPLY CONNECTORS - WITH VK56VD


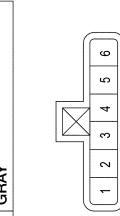
Connector No.	C1
Connector Name	WIRE TO WIRE
Connector Type	RK26FGY-RS20-X6
Connector Color	GRAY

Terminal No.	Color of Wire	Signal Name
1C	Y/W	TO ENGINE ROOM HARNESS
2C	W/L	TO ENGINE ROOM HARNESS
3C	B	TO ENGINE ROOM HARNESS
4C	BR/W	TO ENGINE ROOM HARNESS
5C	BR/Y	TO ENGINE ROOM HARNESS
6C	Y	TO ENGINE ROOM HARNESS
7C	R	TO ENGINE ROOM HARNESS - (WITH VK56VD)
8C	G/R	TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L)
9C	O/B	TO ENGINE ROOM HARNESS - (WITH VK56VD)
10C	B	TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L)
11C	SB	TO ENGINE ROOM HARNESS - (WITH VK56VD)
12C	W/L	TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L)
13C	GR	TO ENGINE ROOM HARNESS - (WITH VK56VD)
14C	GR/R	TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L)
15C	R/W	TO ENGINE ROOM HARNESS - (WITH VK56VD)
16C	B	TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L)
17C	Y	TO ENGINE ROOM HARNESS
18C	B	TO ENGINE ROOM HARNESS
19C	B/G	TO ENGINE ROOM HARNESS
20C	W	TO ENGINE ROOM HARNESS
21C	L/G	TO ENGINE ROOM HARNESS


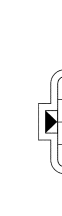
22C	SHIELD	TO ENGINE ROOM HARNESS
23C	G/B	TO ENGINE ROOM HARNESS
24C	G/B	TO ENGINE ROOM HARNESS
25C	W	TO ENGINE ROOM HARNESS
26C	B	TO ENGINE ROOM HARNESS
27C	L/G	TO ENGINE ROOM HARNESS
28C	G/W	TO ENGINE ROOM HARNESS
29C	R/L/G	TO ENGINE ROOM HARNESS
30C	R/L	TO ENGINE ROOM HARNESS
31C	B	TO ENGINE ROOM HARNESS
32C	R	TO ENGINE ROOM HARNESS
33C	L/W	TO ENGINE ROOM HARNESS
34C	L	TO ENGINE ROOM HARNESS
35C	R/W	TO ENGINE ROOM HARNESS
36C	L	TO ENGINE ROOM HARNESS
37C	Y	TO ENGINE ROOM HARNESS
38C	GR	TO ENGINE ROOM HARNESS
39C	R	TO ENGINE ROOM HARNESS
40C	P	TO ENGINE ROOM HARNESS
41C	V	TO ENGINE ROOM HARNESS
42C	L/G/B	TO ENGINE ROOM HARNESS
43C	Y/B	TO ENGINE ROOM HARNESS
44C	R	TO ENGINE ROOM HARNESS
45C	G	TO ENGINE ROOM HARNESS
46C	BR	TO ENGINE ROOM HARNESS
47C	B	TO ENGINE ROOM HARNESS
48C	Y/R	TO ENGINE ROOM HARNESS
49C	V	TO ENGINE ROOM HARNESS - (WITH VK56VD)
49C	R/Y	TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L)
50C	B/Y	TO ENGINE ROOM HARNESS - (WITH VK56VD)
50C	B	TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L)
51C	B	TO ENGINE ROOM HARNESS - (WITH VK56VD)
51C	V	TO ENGINE ROOM HARNESS - (WITH CUMMINS 3.0L)
52C	V/W	TO ENGINE ROOM HARNESS

Connector No.	C12
Connector Name	FUEL PUMP CONTROL MODULE (FPCM)
Connector Type	E06FGY-RS
Connector Color	GRAY


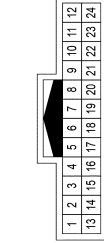
Terminal No.	Color of Wire	Signal Name
1	B/Y	BATTERY
2	GR	FPC INPUT SIGNAL
3	R/W	DIAG OUTPUT SIGNAL
4	B	GROUND
5	L	FUEL PUMP -
6	BR	FUEL PUMP +

Connector No.	E2
Connector Name	WIRE TO WIRE
Connector Type	RS08BMGY-PR
Connector Color	GRAY

Terminal No.	Color of Wire	Signal Name
1	W	TO ENGINE CONTROL HARNESS
2	L	TO ENGINE CONTROL HARNESS
3	R/W	TO ENGINE CONTROL HARNESS
4	W	TO ENGINE CONTROL HARNESS
5	SHIELD	TO ENGINE CONTROL HARNESS
6	GR/R	TO ENGINE CONTROL HARNESS
7	BR	TO ENGINE CONTROL HARNESS
8	B	TO ENGINE CONTROL HARNESS

Connector No.	E5
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE


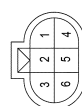
Terminal No.	Color of Wire	Signal Name
1	L/R	TO ENGINE CONTROL HARNESS
2	BR	TO ENGINE CONTROL HARNESS
3	V	TO ENGINE CONTROL HARNESS
4	L/O	TO ENGINE CONTROL HARNESS
5	W	TO ENGINE CONTROL HARNESS
6	B/R	TO ENGINE CONTROL HARNESS
7	Y/R	TO ENGINE CONTROL HARNESS
8	BR	TO ENGINE CONTROL HARNESS
9	W/L	TO ENGINE CONTROL HARNESS
10	L/Y	TO ENGINE CONTROL HARNESS
11	SB	TO ENGINE CONTROL HARNESS
12	L	TO ENGINE CONTROL HARNESS
13	W/R	TO ENGINE CONTROL HARNESS
14	Y	TO ENGINE CONTROL HARNESS
15	B	TO ENGINE CONTROL HARNESS
16	B	TO ENGINE CONTROL HARNESS
17	R	TO ENGINE CONTROL HARNESS
18	B	TO ENGINE CONTROL HARNESS
19	B/R	TO ENGINE CONTROL HARNESS
20	GR	TO ENGINE CONTROL HARNESS
21	W/R	TO ENGINE CONTROL HARNESS
22	B	TO ENGINE CONTROL HARNESS
23	B	TO ENGINE CONTROL HARNESS
24	P	TO ENGINE CONTROL HARNESS

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >


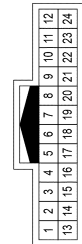
IGNITION POWER SUPPLY CONNECTORS - WITH VK56VD

Connector No.	E23
Connector Name	FRONT WIPER MOTOR
Connector Type	RS06FGY-PR
Connector Color	GRAY

Terminal No.	Color of Wire	Signal Name
1	B	GROUND
2	Y	H
3	BR	L
4	-	-
5	-	-
6	L/Y	P

Connector No.	E26
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE






Terminal No.	Color of Wire	Signal Name
1	LG/B	TO MAIN HARNESS
2	R/W	TO MAIN HARNESS
3	Y/R	TO MAIN HARNESS
4	G/R	TO MAIN HARNESS
5	G/W	TO MAIN HARNESS
6	P	TO MAIN HARNESS
7	O	TO MAIN HARNESS
8	R	TO MAIN HARNESS
9	G	TO MAIN HARNESS
10	LG	TO MAIN HARNESS
11	BR	TO MAIN HARNESS
12	GR	TO MAIN HARNESS
13	G	TO MAIN HARNESS
14	BR	TO MAIN HARNESS
15	-	TO MAIN HARNESS
16	-	TO MAIN HARNESS
17	W	TO MAIN HARNESS

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18	-	TO MAIN HARNESS
19	Y/R	TO MAIN HARNESS
20	G/W	TO MAIN HARNESS
21	-	TO MAIN HARNESS
22	-	TO MAIN HARNESS
23	O/L	TO MAIN HARNESS
24	O/L	TO MAIN HARNESS

Connector No.	E33
Connector Name	WIRE TO WIRE
Connector Type	L02MB-MC
Connector Color	BLACK


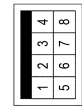
Terminal No.	Color of Wire	Signal Name
1	W	TO MAIN HARNESS
2	L	TO MAIN HARNESS

Connector No.	E34
Connector Name	WIRE TO WIRE
Connector Type	L02FB-MC
Connector Color	BLACK




Terminal No.	Color of Wire	Signal Name
1	W	TO BODY HARNESS
2	W/B	TO BODY HARNESS

Connector No.	E39
Connector Name	WIRE TO WIRE
Connector Type	M08MW-GY-LC
Connector Color	GRAY

Terminal No.	Color of Wire	Signal Name
1	B	TO ENGINE CONTROL HARNESS
2	B	TO ENGINE CONTROL HARNESS
3	B	TO ENGINE CONTROL HARNESS
4	W/R	TO ENGINE CONTROL HARNESS
5	P	TO ENGINE CONTROL HARNESS
6	O	TO ENGINE CONTROL HARNESS
7	SB	TO ENGINE CONTROL HARNESS
8	R	TO ENGINE CONTROL HARNESS


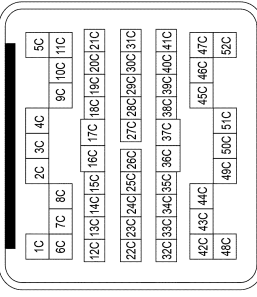
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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

IGNITION POWER SUPPLY CONNECTORS - WITH VK56VD

Connector No.	E41
Connector Name	WIRE TO WIRE
Connector Type	RK26MGY-RS20-X6
Connector Color	GRAY






Terminal No.	Color of Wire	Signal Name
1C	Y/V	TO CHASSIS HARNESS
2C	W/L	TO CHASSIS HARNESS
3C	B	TO CHASSIS HARNESS
4C	BR/W	TO CHASSIS HARNESS
5C	BR/Y	TO CHASSIS HARNESS
6C	Y	TO CHASSIS HARNESS
7C	R	TO CHASSIS HARNESS - (WITH VK56VD)
8C	G/R	TO CHASSIS HARNESS - (WITH CUMMINS 5.0L)
9C	O/B	TO CHASSIS HARNESS - (WITH VK56VD)
10C	B	TO CHASSIS HARNESS - (WITH CUMMINS 5.0L)
11C	SB	TO CHASSIS HARNESS - (WITH VK56VD)
12C	W/L	TO CHASSIS HARNESS - (WITH CUMMINS 5.0L)
13C	GR	TO CHASSIS HARNESS - (WITH VK56VD)
14C	GR/R	TO CHASSIS HARNESS - (WITH CUMMINS 5.0L)
15C	R/W	TO CHASSIS HARNESS - (WITH VK56VD)
16C	B	TO CHASSIS HARNESS - (WITH CUMMINS 5.0L)
17C	Y	TO CHASSIS HARNESS
18C	B	TO CHASSIS HARNESS
19C	BG	TO CHASSIS HARNESS
20C	L	TO CHASSIS HARNESS
21C	BG	TO CHASSIS HARNESS
22C	B	TO CHASSIS HARNESS

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22C	SHIELD	TO CHASSIS HARNESS
23C	G/B	TO CHASSIS HARNESS
24C	G/Y	TO CHASSIS HARNESS
25C	W	TO CHASSIS HARNESS
26C	B	TO CHASSIS HARNESS
27C	LG	TO CHASSIS HARNESS
28C	G/W	TO CHASSIS HARNESS
29C	G/R	TO CHASSIS HARNESS - (WITH BULB CHECK)
29C	R/G	TO CHASSIS HARNESS - (WITHOUT BULB CHECK)
30C	R/L	TO CHASSIS HARNESS
31C	B	TO CHASSIS HARNESS
32C	R	TO CHASSIS HARNESS
33C	L/W	TO CHASSIS HARNESS
34C	L	TO CHASSIS HARNESS
35C	R/W	TO CHASSIS HARNESS
36C	L	TO CHASSIS HARNESS
37C	Y	TO CHASSIS HARNESS
38C	BR	TO CHASSIS HARNESS
39C	R	TO CHASSIS HARNESS
40C	P	TO CHASSIS HARNESS
41C	V	TO CHASSIS HARNESS
42C	G/B	TO CHASSIS HARNESS
43C	Y/B	TO CHASSIS HARNESS
44C	R	TO CHASSIS HARNESS
45C	G	TO CHASSIS HARNESS
46C	BR	TO CHASSIS HARNESS
47C	B	TO CHASSIS HARNESS
48C	Y/R	TO CHASSIS HARNESS
49C	V	TO CHASSIS HARNESS - (WITH VK56VD)
49C	R/Y	TO CHASSIS HARNESS - (WITH CUMMINS 5.0L)
50C	B/Y	TO CHASSIS HARNESS - (WITH VK56VD)
50C	B	TO CHASSIS HARNESS - (WITH CUMMINS 5.0L)
51C	B	TO CHASSIS HARNESS - (WITH VK56VD)
51C	V	TO CHASSIS HARNESS - (WITH CUMMINS 5.0L)
52C	V/W	TO CHASSIS HARNESS
52C	B	TO CHASSIS HARNESS - (WITHOUT FFV)
52C	L	TO CHASSIS HARNESS - (WITH FFV)

Connector No.	E95
Connector Name	DIODE-4
Connector Type	24335_C9900
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	Y/R	A/T ECU IGN
2	BR	A/T ECU IGN

Connector No.	E99
Connector Name	TRAILER TOW RELAY 2
Connector Type	M06FBR-R-LC
Connector Color	BROWN




Terminal No.	Color of Wire	Signal Name
1	G	RELAY CONT
2	B	GND
3	Y	BATTERY
5	W/L	POWER (7 PIN)
6	Y	BATTERY
7	W/L	POWER (7 PIN)

Connector No.	ET18
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	L02FB-MC
Connector Color	BLACK

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

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

IGNITION POWER SUPPLY CONNECTORS - WITH VK56VD

Connector No.	E119
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS16FW-CS
Connector Color	WHITE

9	8	7	6	5	4	3
18	17	16	15	14	13	12
11	10					

H.S.

Terminal No.	Color of Wire	Signal Name
3	-	-
4	B/R	NP SW
5	L/W	H/LAMP HI RH
6	G	H/LAMP HI LH
7	L	H/LAMP LO LH
8	R/Y	H/LAMP LO RH
9	G/W	FR FOG/L LH
10	-	-
11	P	ETC VB - (WITH CUMMINS 5.0L)
12	O	ETC VB - (WITH VK56VD)
13	W/R	FR FOG/L RH
14	Y/R	A/T ECU IGN
15	G	REVERSE LAMP IGN
16	GR	ABS ECU IGN
17	G	ETC RLY CONT - (WITH CUMMINS 5.0L)
18	V/R	ETC RLY CONT - (WITH VK56VD)
19	L/W	IGN COIL - (WITH CUMMINS 5.0L)
20	W	IGN COIL - (WITH VK56VD)
21	-	-
22	-	-

H.S.

21	20	19
24	23	22

Terminal No.	Color of Wire	Signal Name
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19	W/R	STARTER MOTOR
20	L	FL IGN SW
21	-	-
22	-	-
23	-	-
24	-	-

Connector No.	E121
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS12FBR-CS
Connector Color	BROWN

29	28	27	26	25
36	35	34	33	32
31	30			

H.S.

Terminal No.	Color of Wire	Signal Name
25	BR	ECM VB - (WITH CUMMINS 5.0L)
26	W	ECM VB - (WITH VK56VD)
27	V	02 SENS - (WITH VK56VD)
28	R/L	PARKING RH
29	R/L	TAIL 1
30	Y	FR WIPER HI
31	-	-
32	L	ECM RLY CONT
33	R/L	PARKING LH
34	R/W	TAIL 2
35	BR	FR WIPER LO
36	-	-

H.S.

42	41	40	39	38	37
48	47	46	45	44	43

Connector No.	E122
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH12FW-NH
Connector Color	WHITE

Terminal No.	Color of Wire	Signal Name
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37	-	-
38	-	-
39	L/Y	WIPER AUTO STOP SW
40	P	CAN-L
41	L	CAN-H
42	BR	DTFL RLY
43	-	-
44	W/B	START CONT
45	GR	FUEL RLY CONT
46	Y	HOOD SW
47	Y	ALT C - (WITH VK56VD)
48	R/W	HORN RLY CONT

Connector No.	E123
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS08FBR-CS
Connector Color	BROWN

51	50	49
56	55	54
53	52	

H.S.

Terminal No.	Color of Wire	Signal Name
49	Y/B	A/C COMP - (WITH CUMMINS 5.0L)
50	GR/R	A/C COMP - (WITH VK56VD)
51	BR	TRAILER TOW
52	B	S-GND
53	-	-
54	-	-
55	-	-
56	-	-

Connector No.	E124
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	M06FB-LC
Connector Color	BLACK

H.S.

59	58	57
62	61	60

Terminal No.	Color of Wire	Signal Name
57	W/B	RR DEF
58	BR	FUEL PUMP - (WITH CUMMINS 5.0L)
59	B/Y	FUEL PUMP - (WITH VK56VD)
60	-	-
61	-	-
62	B	P GND

A B C D E F G H I J K L N O P

PG

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

IGNITION POWER SUPPLY CONNECTORS - WITH VK56VD

Connector No.	E125
Connector Name	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
Connector Type	SAZ42FB-SJZ4
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	G	ABS SOL
2	B	GND 1
3	B	GND 2
4	W	MTR POWER 1
5	-	-
6	-	-
7	-	-
8	-	-
9	BR	YG CAN-H
10	LG	YG CAN-L
11	-	-
12	-	-
13	P/B	LBL
14	-	-
15	-	-
16	-	-
17	R/B	STP2
18	GR	IGN 1
19	V	FR SENS-
20	SB	FL SENS+
21	R	RR SENS-
22	V	RL SENS+
23	-	-
24	-	-
25	-	-
26	-	-
27	P	CAN-L
28	-	-
29	-	-
30	-	-
31	-	-
32	-	-
33	LG	FR SENS+
34	LG	FL SENS-
35	BR	RR SENS+
36	P	RL SENS-
37	P/G	STP

38	-	-	VDC OFF
39	G	-	-
40	-	-	-
41	L	-	CAN-H
42	-	-	-
43	G/W	-	HDC ON
44	-	-	-
45	-	-	-
46	W	-	STPO

Connector No.	E128
Connector Name	HILL DESCENT CONTROL RELAY
Connector Type	MS02FL-M2-LC
Connector Color	BLUE

H.S.

Terminal No.	Color of Wire	Signal Name
1	GR	IGN
2	W	STPO
3	R/Y	BATTERY
5	R/G	IGNITION

Connector No.	E130
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH10FB-NH
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
63	-	-
64	R	DETENT SW
65	-	-
66	P	PUSH START SW
67	-	-
68	L	IGN SIGNAL

69	-	-	-
70	-	-	-
71	SB	-	HOOD SW2
72	W	-	E-CPLG - (WITH VK56VD)

Connector No.	E147
Connector Name	FUSIBLE LINK BOX (BATTERY) (WITH VK56VD)
Connector Type	L02FBR-MC
Connector Color	BROWN

H.S.

Terminal No.	Color of Wire	Signal Name
1	B/L	BATTERY
2	B/Y	BATTERY

Connector No.	E148
Connector Name	FUSIBLE LINK BOX (BATTERY) (WITH VK56VD)
Connector Type	L02FGY-MC
Connector Color	GRAY

H.S.

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

Connector No.	E149
Connector Name	FUSIBLE LINK BOX (BATTERY) (WITH VK56VD)
Connector Type	24340_EA00A
Connector Color	-

H.S.

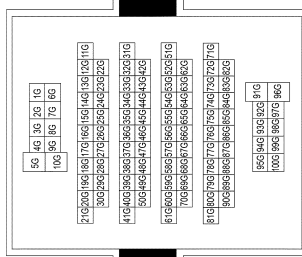
Terminal No.	Color of Wire	Signal Name
6	W	BATTERY

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

IGNITION POWER SUPPLY CONNECTORS - WITH VK56VD

Connector No.	E152
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CST6-TM4
Connector Color	WHITE



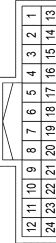
24G	G/B	TO MAIN HARNESS
25G	R/W	TO MAIN HARNESS
26G	R	TO MAIN HARNESS
27G	LG	TO MAIN HARNESS
28G	G/B	TO MAIN HARNESS
29G	G/B	TO MAIN HARNESS
30G	B/Y	TO MAIN HARNESS
31G	P	TO MAIN HARNESS - (WITH CUMMINS 5.0L)
31G	R	TO MAIN HARNESS - (WITH VK56VD)
32G	P	TO MAIN HARNESS
33G	Y/L	TO MAIN HARNESS
34G	GR	TO MAIN HARNESS
35G	G/R	TO MAIN HARNESS
36G	SB	TO MAIN HARNESS
37G	R/W	TO MAIN HARNESS
38G	BR	TO MAIN HARNESS
39G	BR	TO MAIN HARNESS
40G	-	TO MAIN HARNESS
41G	R/G	TO MAIN HARNESS
42G	O	TO MAIN HARNESS
43G	B	TO MAIN HARNESS - (WITH CUMMINS 5.0L)
43G	G	TO MAIN HARNESS - (WITH VK56VD)
44G	R/Y	TO MAIN HARNESS
45G	G	TO MAIN HARNESS
46G	LG	TO MAIN HARNESS
47G	R	TO MAIN HARNESS
48G	W	TO MAIN HARNESS
49G	-	TO MAIN HARNESS
50G	BR	TO MAIN HARNESS
51G	R	TO MAIN HARNESS
52G	L	TO MAIN HARNESS
53G	W	TO MAIN HARNESS
54G	W	TO MAIN HARNESS
55G	G	TO MAIN HARNESS
56G	W	TO MAIN HARNESS
57G	Y	TO MAIN HARNESS
58G	BG	TO MAIN HARNESS
59G	BG	TO MAIN HARNESS
60G	BG	TO MAIN HARNESS
61G	B	TO MAIN HARNESS
62G	W	TO MAIN HARNESS
63G	R	TO MAIN HARNESS
64G	W/L	TO MAIN HARNESS
65G	W/R	TO MAIN HARNESS
66G	BG	TO MAIN HARNESS
67G	BG	TO MAIN HARNESS
68G	B	TO MAIN HARNESS
69G	Y	TO MAIN HARNESS
70G	L	TO MAIN HARNESS
71G	R/W	TO MAIN HARNESS

Terminal No.	Color of Wire	Signal Name
1G	G	TO MAIN HARNESS
2G	B/R	TO MAIN HARNESS
3G	W/B	TO MAIN HARNESS
4G	B/W	TO MAIN HARNESS
5G	BR	TO MAIN HARNESS
6G	P	TO MAIN HARNESS - (WITH VK56VD)
6G	R/W	TO MAIN HARNESS - (WITH CUMMINS 5.0L)
7G	Y	TO MAIN HARNESS
8G	G	TO MAIN HARNESS
9G	R	TO MAIN HARNESS
10G	W	TO MAIN HARNESS
11G	R/G	TO MAIN HARNESS
12G	W/B	TO MAIN HARNESS
13G	BR	TO MAIN HARNESS
14G	Y/B	TO MAIN HARNESS
15G	G/W	TO MAIN HARNESS
16G	G	TO MAIN HARNESS
17G	G/Y	TO MAIN HARNESS
18G	G/Y	TO MAIN HARNESS
19G	Y/Y	TO MAIN HARNESS
20G	G/Y	TO MAIN HARNESS
21G	B/Y	TO MAIN HARNESS
22G	G/R	TO MAIN HARNESS
23G	Y/R	TO MAIN HARNESS

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72G	L/W	TO MAIN HARNESS
73G	SHIELD	TO MAIN HARNESS
74G	W	TO MAIN HARNESS
75G	R	TO MAIN HARNESS
76G	R/G	TO MAIN HARNESS
77G	G	TO MAIN HARNESS
78G	W	TO MAIN HARNESS
79G	-	TO MAIN HARNESS
80G	R	TO MAIN HARNESS
81G	L	TO MAIN HARNESS
82G	R	TO MAIN HARNESS
83G	L	TO MAIN HARNESS
84G	L	TO MAIN HARNESS
85G	W/B	TO MAIN HARNESS
86G	B/R	TO MAIN HARNESS
87G	W/B	TO MAIN HARNESS
88G	P	TO MAIN HARNESS
89G	L	TO MAIN HARNESS
90G	G	TO MAIN HARNESS
91G	G	TO MAIN HARNESS
92G	V/W	TO MAIN HARNESS
93G	BR	TO MAIN HARNESS
94G	G	TO MAIN HARNESS
95G	G	TO MAIN HARNESS
96G	W	TO MAIN HARNESS
97G	R	TO MAIN HARNESS
98G	W/B	TO MAIN HARNESS
99G	BR	TO MAIN HARNESS
100G	GR/W	TO MAIN HARNESS

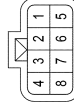
Connector No.	F14
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	L/R	TO ENGINE ROOM HARNESS
2	BR	TO ENGINE ROOM HARNESS
3	V	TO ENGINE ROOM HARNESS
4	L/O	TO ENGINE ROOM HARNESS
5	W	TO ENGINE ROOM HARNESS
6	Y/R	TO ENGINE ROOM HARNESS
7	Y/R	TO ENGINE ROOM HARNESS
8	BR	TO ENGINE ROOM HARNESS
9	W/L	TO ENGINE ROOM HARNESS

10	L/Y	TO ENGINE ROOM HARNESS
11	SB	TO ENGINE ROOM HARNESS
12	L	TO ENGINE ROOM HARNESS
13	W/R	TO ENGINE ROOM HARNESS
14	Y	TO ENGINE ROOM HARNESS
15	B	TO ENGINE ROOM HARNESS
16	B	TO ENGINE ROOM HARNESS
17	R	TO ENGINE ROOM HARNESS
18	B	TO ENGINE ROOM HARNESS
19	B/R	TO ENGINE ROOM HARNESS
20	GR	TO ENGINE ROOM HARNESS
21	V/R	TO ENGINE ROOM HARNESS
22	SHIELD	TO ENGINE ROOM HARNESS
23	SHIELD	TO ENGINE ROOM HARNESS
24	P	TO ENGINE ROOM HARNESS

Connector No.	F32
Connector Name	WIRE TO WIRE
Connector Type	RS08FGY-PR
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
1	W	TO ENGINE ROOM HARNESS
2	L	TO ENGINE ROOM HARNESS
3	R/W	TO ENGINE ROOM HARNESS
4	W	TO ENGINE ROOM HARNESS
5	SHIELD	TO ENGINE ROOM HARNESS
6	GR/R	TO ENGINE ROOM HARNESS
7	BR	TO ENGINE ROOM HARNESS
8	B	TO ENGINE ROOM HARNESS

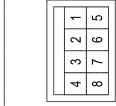
A B C D E F G H I J K L M N O P PG

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

IGNITION POWER SUPPLY CONNECTORS - WITH VK56VD

Connector No.	F34
Connector Name	WIRE TO WIRE
Connector Type	M08FW-GY-LC
Connector Color	GRAY



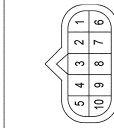
Terminal No.	Color of Wire	Signal Name
1	B	TO ENGINE ROOM HARNESS
2	B	TO ENGINE ROOM HARNESS
3	B	TO ENGINE ROOM HARNESS
4	W/R	TO ENGINE ROOM HARNESS
5	P	TO ENGINE ROOM HARNESS
6	O	TO ENGINE ROOM HARNESS
7	SB	TO ENGINE ROOM HARNESS
8	R	TO ENGINE ROOM HARNESS

Connector No.	F44
Connector Name	STARTER MOTOR (WITH VK56VD)
Connector Type	X01FGY
Connector Color	GRAY



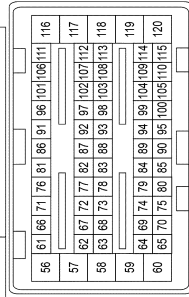
Terminal No.	Color of Wire	Signal Name
S	W/R	STARTER RELAY

Connector No.	F46
Connector Name	A/T ASSEMBLY (WITH VK56VD)
Connector Type	FK10FG
Connector Color	GREEN



Terminal No.	Color of Wire	Signal Name
1	Y/R	VIGN
2	P	BATT
3	L	CAN-H
4	BR	K-LINE
5	B	GND
6	Y/R	VIGN
7	R	REV LAMP RELAY
8	P	CAN-L
9	B/R	STARTER RELAY
10	B	GND

Connector No.	F79
Connector Name	ECM (WITH VK56VD)
Connector Type	MAB5FB-MEB10-LH
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
56	V	MULTI-WAY CONTROL VALVE POWER SUPPLY
57	R	MULTI-WAY CONTROL VALVE MOTOR (-)
58	B	MULTI-WAY CONTROL VALVE MOTOR (+)
59	B	HIGH PRESSURE FUEL PUMP (H)
60	W	HIGH PRESSURE FUEL PUMP (LO)
61	BR	MULTI-WAY CONTROL VALVE POSITION SENSOR
62	B/R	PNP SIGNAL
63	LG/B	SENSOR GROUND

Terminal No.	Color of Wire	Signal Name	Terminal No.	Color of Wire	Signal Name
64	SHIELD	SHIELD	90	BR/W	VEEL ACTUATOR MOTOR RELAY ABORT SIGNAL (WEL CONTROL MODULE)
65	W	ENGINE COOLANT TEMPERATURE SENSOR 2	91	L/B	IGNITION SIGNAL NO. 2
66	P	CAMSHAFT POSITION SENSOR (PHASE) (BANK 2)	92	BR/Y	IGNITION SIGNAL NO. 3
67	-	-	93	GR	FUEL PUMP RELAY
68	P	EXHAUST VALVE TIMING CONTROL POSITION SENSOR (BANK 2)	94	Y/R	IGNITION SIGNAL NO. 6
69	L/W	A/F SENSOR 1 (BANK 2)	95	Y	IGNITION SIGNAL NO. 1
70	Y/B	A/F SENSOR 1 (BANK 2)	96	-	-
71	-	-	97	-	-
72	-	-	98	-	-
73	LG/R	SENSOR POWER SUPPLY	99	V/R	THROTTLE CONTROL MOTOR RELAY
74	R	A/F SENSOR 1 (BANK 1)	100	-	-
75	-	-	101	O	IGNITION SIGNAL NO. 8
76	-	-	102	P/L	IGNITION SIGNAL NO. 5
77	L/W	HEATED OXYGEN SENSOR 2 (BANK 2)	103	-	-
78	R/L	THROTTLE POSITION SENSOR 1	104	LG/R	IGNITION SIGNAL NO. 4
79	W	A/F SENSOR 1 (BANK 1)	105	GY	IGNITION SIGNAL NO. 7
80	B/W	THROTTLE POSITION SENSOR 2	106	V/W	EVAP CANISTER PURGE VOLUME CONTROL SOLENOID VALVE
81	-	-	107	W	THROTTLE CONTROL MOTOR (OPEN)
82	-	-	108	R	THROTTLE CONTROL MOTOR (CLOSE)
83	V/G	SENSOR POWER SUPPLY			
84	W/R	HEATED OXYGEN SENSOR 2 (BANK 1)			
85	L	SENSOR GROUND			
86	-	-			
87	-	-			
88	L/LG	ECM RELAY (SELF SHUT-OFF)			
89	-	-			

109	-	-	-	-	-
110	-	-	-	-	-
111	O	THROTTLE CONTROL MOTOR POWER SUPPLY			
112	LG/B	INTAKE VALVE TIMING CONTROL SOLENOID VALVE (BANK 1)			
113	LG/R	INTAKE VALVE TIMING CONTROL SOLENOID VALVE (BANK 2)			
114	LG/B	EXHAUST VALVE TIMING CONTROL SOLENOID VALVE (BANK 1)			
115	LG/R	EXHAUST VALVE TIMING CONTROL SOLENOID VALVE (BANK 2)			
116	L/W	A/F SENSOR 1 HEATER (BANK 1)			
117	SB	A/F SENSOR 1 HEATER (BANK 2)			
118	LG	HEATED OXYGEN SENSOR 2 HEATER (BANK 1)			
119	L/R	HEATED OXYGEN SENSOR 2 HEATER (BANK 2)			
120	L	POWER SUPPLY FOR ECM (BACK-UP)			

Connector No.	F96
Connector Name	A/C COMPRESSOR (WITH VK56VD)
Connector Type	6185-0862
Connector Color	BLACK



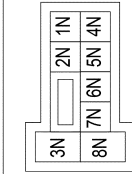
Terminal No.	Color of Wire	Signal Name
1	GR/R	A/C COMP

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

IGNITION POWER SUPPLY CONNECTORS - WITH VK56VD

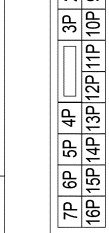
Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	CS06FW-M2
Connector Color	WHITE



H.S.

Terminal No.	Color of Wire	Signal Name
1N	O	IGN
2N	W	BATTERY
3N	W	IGNITION
4N	V	BATTERY
5N	Y	BATTERY
6N	W	BATTERY
7N	L	ACC RELAY OUT
8N	W	IGNITION

Connector No.	M4
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FW-CS
Connector Color	WHITE



H.S.

Terminal No.	Color of Wire	Signal Name
1P	R	IGNITION
2P	Y	IGNITION
3P	G	IGNITION RELAY OUT
4P	B/W	RR DEF RLY
5P	B/W	RR DEF RLY
6P	O	RR DEF RLY OUT
7P	G	IGNITION
8P	W	IGNITION
9P	L	BATTERY
10P	-	-
11P	-	-
12P	-	-
13P	R	BATTERY
14P	Y	BATTERY
15P	Y/LG	BATTERY

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16P	W	BLOWER FAN RELAY OUT
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Connector No.	M18
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FG-NH
Connector Color	GREEN



H.S.

Terminal No.	Color of Wire	Signal Name
1	G	ENG START SW NO ESCL
2	-	-
3	R	A/L POWER SUPPLY 5V
4	W/R	A/L SIGNAL
5	-	-
6	-	-
7	-	-
8	-	-
9	-	-
10	SB	COMBI SW IN 5
11	G/Y	COMBI SW IN 4
12	Y	COMBI SW IN 3
13	G/B	COMBI SW IN 2
14	V	COMBI SW IN 1
15	-	-
16	-	-
17	P	GND RF A/L
18	V	SECURITY INDICATOR
19	-	-
20	R	SHIFT P
21	R/W	STEP LAMP CONT
22	-	-
23	Y	AIRCON SW
24	-	-
25	W	BRAKE SW FUSE
26	L	SHORT IN PIN INPUT
27	R/G	BRAKE SW LAMP
28	-	-
29	W	BLOWER FAN SW
30	P	DR DOOR LOCK STATUS
31	-	-
32	Y	REAR DEFOGGER SW
33	-	-
34	-	-
35	R/G	REVERSE SW
36	W/B	HAZARD SW

37	-	-
38	-	-
39	B/R	SHIFT N/P
40	-	-

Connector No.	M19
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH
Connector Color	BLACK

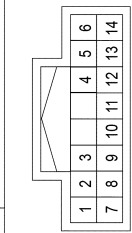


H.S.

Terminal No.	Color of Wire	Signal Name
41	Y/L	TRAILER LIGHT CHECK RELAY OUT
42	R/Y	CARGO LAMP OUT
43	-	-
44	-	-
45	-	-
46	-	-
47	-	-
48	R	HIGH SIDE START SW LED
49	-	-
50	-	-
51	-	-
52	W	AUDIO DONGLE
53	-	-
54	W/L	PW UART
55	W/B	L/R SENSOR K-LINE
56	-	-
57	-	-
58	-	-
59	P	CAN-L
60	L	CAN-H
61	O	REAR DEFOGGER RELAY OUT
62	W	STARTER RELAY OUT
63	-	-
64	P	BUZZER OUT
65	-	-
66	W	BLOWER FAN RELAY OUT
67	G	IGN ELEC RELAY OUT 2
68	L	MR OUTPUT
69	R/B	AT DEVICE OUT
70	P	IGN USM OUT 1
71	O	DR REQUEST SW
72	G	AS REQUEST SW

73	-	-
74	-	-
75	L/W	COMBI SW OUT 5
76	P	COMBI SW OUT 4
77	L	COMBI SW OUT 3
78	O/B	COMBI SW OUT 2
79	R/W	COMBI SW OUT 1
80	-	-

Connector No.	M28
Connector Name	COMBINATION SWITCH
Connector Type	TH16FW-NH
Connector Color	WHITE



H.S.

Terminal No.	Color of Wire	Signal Name
1	W/R	IGNITION
2	G/Y	COMBI SW OUTPUT 4
3	-	-
4	-	-
5	Y	COMBI SW OUTPUT 3
6	V/W	FRONT WASHER MOTOR +
7	L	COMBI SW INPUT 3
8	SB	COMBI SW OUTPUT 5
9	O/B	COMBI SW INPUT 2
10	P	COMBI SW INPUT 4
11	R/W	COMBI SW INPUT 1
12	V	COMBI SW OUTPUT 1
13	L/W	COMBI SW INPUT 5
14	G/B	COMBI SW OUTPUT 2

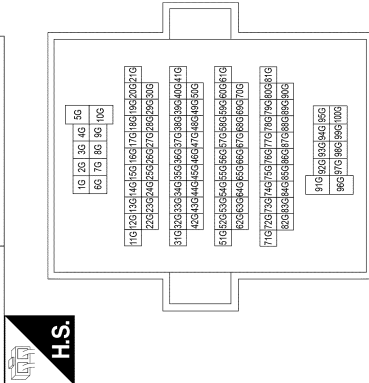
A B C D E F G H I J K L O P PG N Z

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

IGNITION POWER SUPPLY CONNECTORS - WITH VK56VD

Connector No.	M31
Connector Name	WIRE TO WIPE
Connector Type	TH80FW-CST16-TM4
Connector Color	WHITE



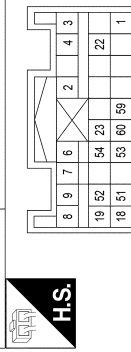
Terminal No.	Color of Wire	Signal Name
1G	G	TO ENGINE ROOM HARNESS
2G	B/R	TO ENGINE ROOM HARNESS
3G	W	TO ENGINE ROOM HARNESS
4G	BR/W	TO ENGINE ROOM HARNESS
5G	BR	TO ENGINE ROOM HARNESS
6G	R/W	TO ENGINE ROOM HARNESS
7G	Y	TO ENGINE ROOM HARNESS
8G	G	TO ENGINE ROOM HARNESS
9G	R	TO ENGINE ROOM HARNESS
10G	W	TO ENGINE ROOM HARNESS
11G	R/G	TO ENGINE ROOM HARNESS
12G	W/B	TO ENGINE ROOM HARNESS
13G	BR	TO ENGINE ROOM HARNESS
14G	Y/B	TO ENGINE ROOM HARNESS
15G	G/W	TO ENGINE ROOM HARNESS
16G	G	TO ENGINE ROOM HARNESS
17G	O	TO ENGINE ROOM HARNESS
18G	G/Y	TO ENGINE ROOM HARNESS
19G	Y/W	TO ENGINE ROOM HARNESS
20G	G/Y	TO ENGINE ROOM HARNESS
21G	B/Y	TO ENGINE ROOM HARNESS
22G	G/R	TO ENGINE ROOM HARNESS
23G	Y/R	TO ENGINE ROOM HARNESS
24G	G/B	TO ENGINE ROOM HARNESS
25G	R/W	TO ENGINE ROOM HARNESS
26G	R	TO ENGINE ROOM HARNESS

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27G	LG	TO ENGINE ROOM HARNESS
28G	G/B	TO ENGINE ROOM HARNESS
29G	G/B	TO ENGINE ROOM HARNESS
30G	BR/Y	TO ENGINE ROOM HARNESS
31G	R	TO ENGINE ROOM HARNESS
32G	R	TO ENGINE ROOM HARNESS
33G	Y/L	TO ENGINE ROOM HARNESS
34G	GR	TO ENGINE ROOM HARNESS
35G	G/R	TO ENGINE ROOM HARNESS
36G	SB	TO ENGINE ROOM HARNESS
37G	R/W	TO ENGINE ROOM HARNESS
38G	BR	TO ENGINE ROOM HARNESS
39G	BR	TO ENGINE ROOM HARNESS
40G	-	TO ENGINE ROOM HARNESS
41G	R/G	TO ENGINE ROOM HARNESS
42G	O	TO ENGINE ROOM HARNESS
43G	G	TO ENGINE ROOM HARNESS
44G	R/Y	TO ENGINE ROOM HARNESS
45G	G	TO ENGINE ROOM HARNESS
46G	LG	TO ENGINE ROOM HARNESS
47G	R	TO ENGINE ROOM HARNESS
48G	W	TO ENGINE ROOM HARNESS
49G	-	TO ENGINE ROOM HARNESS
50G	BR	TO ENGINE ROOM HARNESS
51G	R	TO ENGINE ROOM HARNESS
52G	L	TO ENGINE ROOM HARNESS
53G	W	TO ENGINE ROOM HARNESS
54G	W	TO ENGINE ROOM HARNESS
55G	G	TO ENGINE ROOM HARNESS
56G	W	TO ENGINE ROOM HARNESS
57G	Y	TO ENGINE ROOM HARNESS
58G	BG	TO ENGINE ROOM HARNESS
59G	BG	TO ENGINE ROOM HARNESS
60G	BG	TO ENGINE ROOM HARNESS
61G	O	TO ENGINE ROOM HARNESS
62G	W	TO ENGINE ROOM HARNESS
63G	O	TO ENGINE ROOM HARNESS
64G	W/L	TO ENGINE ROOM HARNESS
65G	W/R	TO ENGINE ROOM HARNESS
66G	BG	TO ENGINE ROOM HARNESS
67G	O	TO ENGINE ROOM HARNESS
68G	B	TO ENGINE ROOM HARNESS
69G	Y	TO ENGINE ROOM HARNESS
70G	L	TO ENGINE ROOM HARNESS
71G	R/W	TO ENGINE ROOM HARNESS
72G	L/W	TO ENGINE ROOM HARNESS
73G	SHIELD	TO ENGINE ROOM HARNESS
74G	W	TO ENGINE ROOM HARNESS
75G	R	TO ENGINE ROOM HARNESS
76G	R/G	TO ENGINE ROOM HARNESS
77G	BG	TO ENGINE ROOM HARNESS
78G	P	TO ENGINE ROOM HARNESS
79G	-	TO ENGINE ROOM HARNESS

80G	R	TO ENGINE ROOM HARNESS
81G	L	TO ENGINE ROOM HARNESS
82G	R	TO ENGINE ROOM HARNESS
83G	L	TO ENGINE ROOM HARNESS
84G	L	TO ENGINE ROOM HARNESS
85G	W	TO ENGINE ROOM HARNESS
86G	B/R	TO ENGINE ROOM HARNESS
87G	W	TO ENGINE ROOM HARNESS
88G	G	TO ENGINE ROOM HARNESS
89G	P	TO ENGINE ROOM HARNESS
90G	G	TO ENGINE ROOM HARNESS
91G	P	TO ENGINE ROOM HARNESS
92G	W/W	TO ENGINE ROOM HARNESS
93G	BR	TO ENGINE ROOM HARNESS
94G	B	TO ENGINE ROOM HARNESS
95G	G	TO ENGINE ROOM HARNESS
96G	R	TO ENGINE ROOM HARNESS
97G	R	TO ENGINE ROOM HARNESS
98G	W/B	TO ENGINE ROOM HARNESS
99G	R	TO ENGINE ROOM HARNESS
100G	GR/W	TO ENGINE ROOM HARNESS

Connector No.	M35
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	NH28FY-EX
Connector Color	YELLOW



Terminal No.	Color of Wire	Signal Name
1	R	IGN
2	B	GND
3	Y	DR1 (+)
4	Y/B	DR1 (-)
6	O	AS1 (+)
7	G	AS1 (-)
8	P	AS2 (+)
9	Y	AS2 (-)
18	GR/R	ECZS (+)
19	GR/B	ECZS (-)
22	SHIELD	ECZS GND
23	O	AIRBAG WARN LAMP
51	LG/B	DOOR SAT RH+
52	Y/B	DOOR SAT RH-
53	L	DOOR SAT LH+
54	W	DOOR SAT LH-

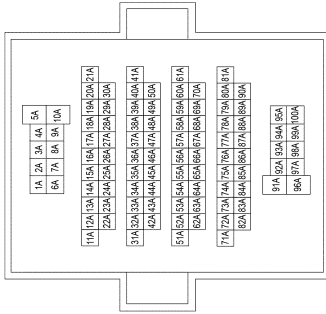
59	L	CAN-H
60	P	CAN-L

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

IGNITION POWER SUPPLY CONNECTORS - WITH VK56VD

Connector No.	M36
Connector Name	WIRE TO WIRE
Connector Type	TH80FDGY-CST6-TM4
Connector Color	GRAY



22A	G	TO BODY NO. 2 HARNESS
23A	Y	TO BODY NO. 2 HARNESS
24A	L	TO BODY NO. 2 HARNESS
25A	-	TO BODY NO. 2 HARNESS
26A	GR	TO BODY NO. 2 HARNESS
27A	LG	TO BODY NO. 2 HARNESS
28A	LG	TO BODY NO. 2 HARNESS
29A	GR	TO BODY NO. 2 HARNESS
30A	-	TO BODY NO. 2 HARNESS
31A	W/R	TO BODY NO. 2 HARNESS
32A	G/R	TO BODY NO. 2 HARNESS
33A	-	TO BODY NO. 2 HARNESS
34A	SHIELD	TO BODY NO. 2 HARNESS
35A	P	TO BODY NO. 2 HARNESS
36A	B	TO BODY NO. 2 HARNESS
37A	-	TO BODY NO. 2 HARNESS
38A	R/B	TO BODY NO. 2 HARNESS
39A	G/O	TO BODY NO. 2 HARNESS
40A	V	TO BODY NO. 2 HARNESS
41A	SHIELD	TO BODY NO. 2 HARNESS
42A	SHIELD	TO BODY NO. 2 HARNESS
43A	R	TO BODY NO. 2 HARNESS
44A	G	TO BODY NO. 2 HARNESS
45A	-	TO BODY NO. 2 HARNESS
46A	-	TO BODY NO. 2 HARNESS
47A	Y	TO BODY NO. 2 HARNESS
48A	R/W	TO BODY NO. 2 HARNESS
49A	R/L	TO BODY NO. 2 HARNESS
50A	B	TO BODY NO. 2 HARNESS
51A	-	TO BODY NO. 2 HARNESS
52A	-	TO BODY NO. 2 HARNESS
53A	-	TO BODY NO. 2 HARNESS
54A	-	TO BODY NO. 2 HARNESS
55A	-	TO BODY NO. 2 HARNESS
56A	-	TO BODY NO. 2 HARNESS
57A	-	TO BODY NO. 2 HARNESS
58A	-	TO BODY NO. 2 HARNESS
59A	-	TO BODY NO. 2 HARNESS
60A	G/W	TO BODY NO. 2 HARNESS
61A	-	TO BODY NO. 2 HARNESS
62A	-	TO BODY NO. 2 HARNESS
63A	-	TO BODY NO. 2 HARNESS
64A	-	TO BODY NO. 2 HARNESS
65A	-	TO BODY NO. 2 HARNESS
66A	-	TO BODY NO. 2 HARNESS
67A	-	TO BODY NO. 2 HARNESS
68A	-	TO BODY NO. 2 HARNESS
69A	Y/R	TO BODY NO. 2 HARNESS
70A	R/G	TO BODY NO. 2 HARNESS
71A	-	TO BODY NO. 2 HARNESS
72A	W	TO BODY NO. 2 HARNESS
73A	G	TO BODY NO. 2 HARNESS
74A	W	TO BODY NO. 2 HARNESS

Terminal No.	Color of Wire	Signal Name
1A	W	TO BODY NO. 2 HARNESS
2A	LG	TO BODY NO. 2 HARNESS
3A	V	TO BODY NO. 2 HARNESS
4A	SB	TO BODY NO. 2 HARNESS
5A	-	TO BODY NO. 2 HARNESS
6A	BG	TO BODY NO. 2 HARNESS - (WITH CLIMATED CONTROLLED SEAT)
6A	LG	TO BODY NO. 2 HARNESS - (WITH CLIMATED CONTROLLED SEAT)
7A	W	TO BODY NO. 2 HARNESS
8A	B	TO BODY NO. 2 HARNESS
9A	L/B	TO BODY NO. 2 HARNESS
10A	W	TO BODY NO. 2 HARNESS
11A	R	TO BODY NO. 2 HARNESS
12A	BR	TO BODY NO. 2 HARNESS
13A	G	TO BODY NO. 2 HARNESS
14A	R/G	TO BODY NO. 2 HARNESS
15A	O	TO BODY NO. 2 HARNESS
16A	O/L	TO BODY NO. 2 HARNESS
17A	L	TO BODY NO. 2 HARNESS
18A	Y	TO BODY NO. 2 HARNESS
19A	B/W	TO BODY NO. 2 HARNESS
20A	BR/Y	TO BODY NO. 2 HARNESS
21A	BG	TO BODY NO. 2 HARNESS

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75A	SHIELD	TO BODY NO. 2 HARNESS
76A	R	TO BODY NO. 2 HARNESS
77A	L	TO BODY NO. 2 HARNESS
78A	SHIELD	TO BODY NO. 2 HARNESS
79A	GR	TO BODY NO. 2 HARNESS
80A	V	TO BODY NO. 2 HARNESS
81A	R	TO BODY NO. 2 HARNESS
82A	SHIELD	TO BODY NO. 2 HARNESS
83A	R	TO BODY NO. 2 HARNESS
84A	O	TO BODY NO. 2 HARNESS
85A	SHIELD	TO BODY NO. 2 HARNESS
86A	W	TO BODY NO. 2 HARNESS
87A	B	TO BODY NO. 2 HARNESS
88A	W	TO BODY NO. 2 HARNESS
89A	SHIELD	TO BODY NO. 2 HARNESS
90A	G	TO BODY NO. 2 HARNESS
91A	W/L	TO BODY NO. 2 HARNESS
92A	BR	TO BODY NO. 2 HARNESS
93A	L/Y	TO BODY NO. 2 HARNESS
94A	R/L	TO BODY NO. 2 HARNESS
95A	BR	TO BODY NO. 2 HARNESS
96A	R	TO BODY NO. 2 HARNESS
97A	LG	TO BODY NO. 2 HARNESS
98A	B/V	TO BODY NO. 2 HARNESS
99A	O/L	TO BODY NO. 2 HARNESS
100A	BR/W	TO BODY NO. 2 HARNESS

Connector No.	M37
Connector Name	FUSE BLOCK (J/B)
Connector Type	L01FW-MC
Connector Color	WHITE



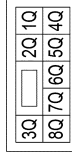
Terminal No.	Color of Wire	Signal Name
1S	W	BATTERY

Connector No.	M38
Connector Name	FUSE BLOCK (J/B)
Connector Type	M01FW-LC
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1L	L	BATTERY

Connector No.	M39
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS08FW-CS
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1Q	-	-
2Q	O/L	IGNITION
3Q	-	-
4Q	-	-
5Q	-	-
6Q	R/W	BATTERY
7Q	R/W	IGNITION
8Q	-	-



A B C D E F G H I J K L O P N Z PG

POWER SUPPLY ROUTING CIRCUIT



< WIRING DIAGRAM >

IGNITION POWER SUPPLY CONNECTORS - WITH VK56VD



Connector No.	M44
Connector Name	FRONT BLOWER MOTOR
Connector Type	M02FW-LC
Connector Color	WHITE


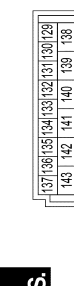
Connector No.	M66
Connector Name	WIRE TO WIRE
Connector Type	L02FB-MC
Connector Color	BLACK

Connector No.	M70
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FB-CS
Connector Color	BROWN

Connector No.	M81
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FW-FHAG-SA
Connector Color	WHITE


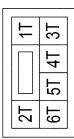
Terminal No.	Color of Wire	Signal Name
1	W	IGNITION
2	L/W	FAN SPEED CONT

Terminal No.	Color of Wire	Signal Name
1	W	TO ENGINE ROOM HARNESS
2	L	TO ENGINE ROOM HARNESS


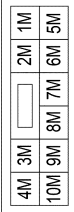
Terminal No.	Color of Wire	Signal Name
1R	L	TAIL LAMP 2
2R	G/R	IGNITION
3R	Y/R	BATTERY
4R	-	-
5R	W	BATTERY
6R	G/W	ACCESSORY
7R	R	BATTERY
8R	-	-
9R	-	-
10R	W	BATTERY
11R	-	-
12R	EG	BATTERY
13R	B	ACCESSORY
14R	G/Y	BATTERY
15R	Y	BATTERY
16R	G/R	ACCESSORY

Terminal No.	Color of Wire	Signal Name
129	R/G	BATTERY SAVER OUT
130	LG	SUPER LOCK/DOOR UNLOCK AS
131	W	BAT BOM FUSE
132	Y	DOOR LOCK AS/RR/L
133	BR	DOOR UNLOCK AS/RR/L
134	B	GN02
135	O	DOOR LOCK DRA/S/F/L
136	L	ROOM LAMP CONT
137	V	DOOR UNLOCK DB/AS/F/L
138	V	BAT REAR DOOR
139	W	BAT-POWER F/L
140	LG	P/W POWER SUPPLY IGN
141	V	P/W POWER SUPPLY BAT
142	Y	BAT FRONT DOOR
143	B	GN01

Connector No.	M60
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS06FW-CS
Connector Color	WHITE

Connector No.	M69
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10FW-CS
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1R	L	TAIL LAMP 2
2R	G/R	IGNITION
3R	Y/R	BATTERY
4R	-	-
5R	W	BATTERY
6R	G/W	ACCESSORY
7R	R	BATTERY
8R	-	-
9R	-	-
10R	W	BATTERY
11R	-	-
12R	EG	BATTERY
13R	B	ACCESSORY
14R	G/Y	BATTERY
15R	Y	BATTERY
16R	G/R	ACCESSORY

Terminal No.	Color of Wire	Signal Name
129	R/G	BATTERY SAVER OUT
130	LG	SUPER LOCK/DOOR UNLOCK AS
131	W	BAT BOM FUSE
132	Y	DOOR LOCK AS/RR/L
133	BR	DOOR UNLOCK AS/RR/L
134	B	GN02
135	O	DOOR LOCK DRA/S/F/L
136	L	ROOM LAMP CONT
137	V	DOOR UNLOCK DB/AS/F/L
138	V	BAT REAR DOOR
139	W	BAT-POWER F/L
140	LG	P/W POWER SUPPLY IGN
141	V	P/W POWER SUPPLY BAT
142	Y	BAT FRONT DOOR
143	B	GN01

Terminal No.	Color of Wire	Signal Name
1T	-	-
2T	SB	BATTERY
3T	R	RR DEF RLY
4T	G	BATTERY
5T	-	-
6T	-	-

Terminal No.	Color of Wire	Signal Name
1M	GR	IGNITION
2M	-	-
3M	-	-
4M	-	-
5M	R/Y	BATTERY
6M	R/W	TAIL LAMP 2
7M	-	-
8M	-	-
9M	-	-
10M	W/R	IGNITION

Connector No.	M73
Connector Name	BACK-UP LAMP RELAY
Connector Type	M06FBR-R-LC
Connector Color	BROWN

Terminal No.	Color of Wire	Signal Name
1	G	GROUND
2	R	REV LAMP RELAY
3	G	IGNITION
5	G/W	REVERSE
6	W/B	BATTERY
7	Y/R	REVERSE

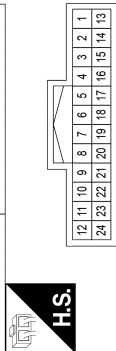
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POWER SUPPLY ROUTING CIRCUIT

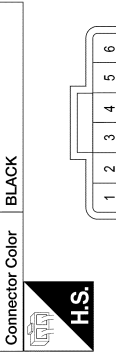
< WIRING DIAGRAM >

IGNITION POWER SUPPLY CONNECTORS - WITH VK56VD

Connector No.	M91
Connector Name	WIRED TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE




Connector No.	M108
Connector Name	YAW RATE/SIDE/DECEL G SENSOR
Connector Type	SAZ06FB
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	G/W	TO ENGINE ROOM HARNESS
2	R/W	TO ENGINE ROOM HARNESS
3	Y/R	TO ENGINE ROOM HARNESS
4	G/R	TO ENGINE ROOM HARNESS
5	G	TO ENGINE ROOM HARNESS
6	P	TO ENGINE ROOM HARNESS
7	O	TO ENGINE ROOM HARNESS
8	R	TO ENGINE ROOM HARNESS
9	G	TO ENGINE ROOM HARNESS
10	LG	TO ENGINE ROOM HARNESS
11	BR	TO ENGINE ROOM HARNESS
12	GR	TO ENGINE ROOM HARNESS
13	G	TO ENGINE ROOM HARNESS
14	BR	TO ENGINE ROOM HARNESS
15	-	TO ENGINE ROOM HARNESS
16	-	TO ENGINE ROOM HARNESS
17	W	TO ENGINE ROOM HARNESS
18	-	TO ENGINE ROOM HARNESS
19	Y/R	TO ENGINE ROOM HARNESS
20	G/W	TO ENGINE ROOM HARNESS
21	-	TO ENGINE ROOM HARNESS
22	-	TO ENGINE ROOM HARNESS
23	-	TO ENGINE ROOM HARNESS
24	O/L	TO ENGINE ROOM HARNESS


Terminal No.	Color of Wire	Signal Name
1	-	-
2	-	-
3	GR	IGNITION
4	BR	CAN H
5	LG	CAN L
6	B	GND

Connector No.	M132
Connector Name	FRONT AIR CONTROL
Connector Type	TH2FW-NH
Connector Color	WHITE



16	-	-	-
17	P	CAN-L	-
18	B	GND(POWER)	-
19	G	IGN	-
20	GR	ILL-	-
21	R	SENS GND	-
22	P	INTAKE SENS	-
23	-	-	-
24	-	-	-
25	Y	COMP ON	-
26	L/W	FAN FB	-
27	B/W	RR DEF F/B	-
28	-	-	-
29	B	ACTR GND	-
30	W	FAN ON	-
31	L	WATER VALVE CLOSE(WITH VK56VD)	-
32	-	-	-


Connector No.	M137
Connector Name	A/C AUTO AMP.
Connector Type	TH40FW-NH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	L	CAN-H
2	B	GND
3	SB	BAT
4	BR	TX (FR CONT)
5	-	-
6	-	-
7	W	AMB SENS
8	BR	STRG HEATER SW
9	G	SUN SENS
10	-	-
11	-	-
12	W	WATER VALVE OPEN(WITH VK56VD)
13	W	IGN2(ACC)
14	P	FAN GATE
15	Y	RR DEF ON
16	G	LIN SIG
17	W	VACTR
18	-	-
19	G/R	PTC1(WITH CUMMINS 5.0L)

20	P	STRG HEATER RLY	-
21	P	CAN-L	-
22	B	P-GND	-
23	G	IGN	-
24	V	RX (FR CONT)	-
25	-	-	-
26	R	SENS GND	-
27	G	INCAR SENS	-
28	P	INTAKE SENS	-
29	-	-	-
30	-	-	-
31	-	-	-
32	L	WATER VALVE CLOSE(WITH VK56VD)	-
33	Y	COMP ON	-
34	L/W	FAN FB	-
35	B/W	RR DEF F/B	-
36	-	-	-
37	B	ACTR GND	-
38	W	FAN ON	-
39	LG	PTC2(WITH CUMMINS 5.0L)	-
40	SB	PTC3(WITH CUMMINS 5.0L)	-

Connector No.	M159
Connector Name	REAR HEATED SEAT SWITCH LH
Connector Type	NS06FW-CS
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	GR	ILLUMINATION -
2	L	ILLUMINATION +
3	SB	REAR LH SEAT HEATER HI
4	Y	IGNITION
5	L	REAR LH SEAT HEATER LO
6	B	GND

A
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G
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L
N
O
P

PG

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

IGNITION POWER SUPPLY CONNECTORS - WITH VK56VD

Connector No.	M160
Connector Name	REAR HEATED SEAT SWITCH RH
Connector Type	NS06FBR-CS
Connector Color	BROWN



2	1
6	5 4 3

Terminal No.	Color of Wire	Signal Name
1	GR	ILLUMINATION -
2	L	ILLUMINATION +
3	BR	REAR RH SEAT HEATER HI
4	Y	IGNITION
5	LG	REAR RH SEAT HEATER LO
6	B	GND

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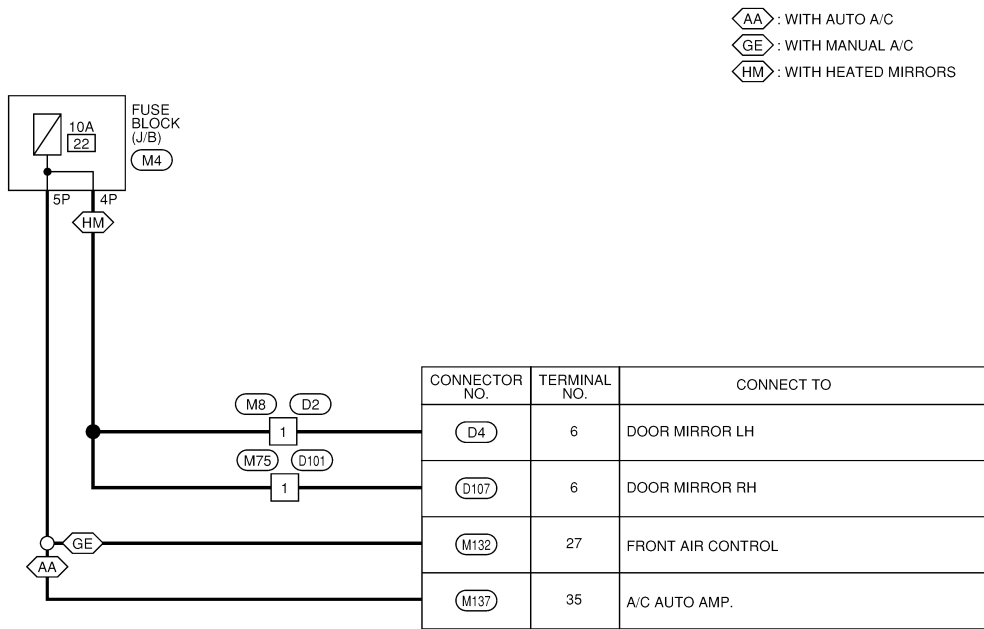
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 22

INFOID:000000012918324

IGNITION POWER SUPPLY FUSE No. 22



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AAMIA4519GB

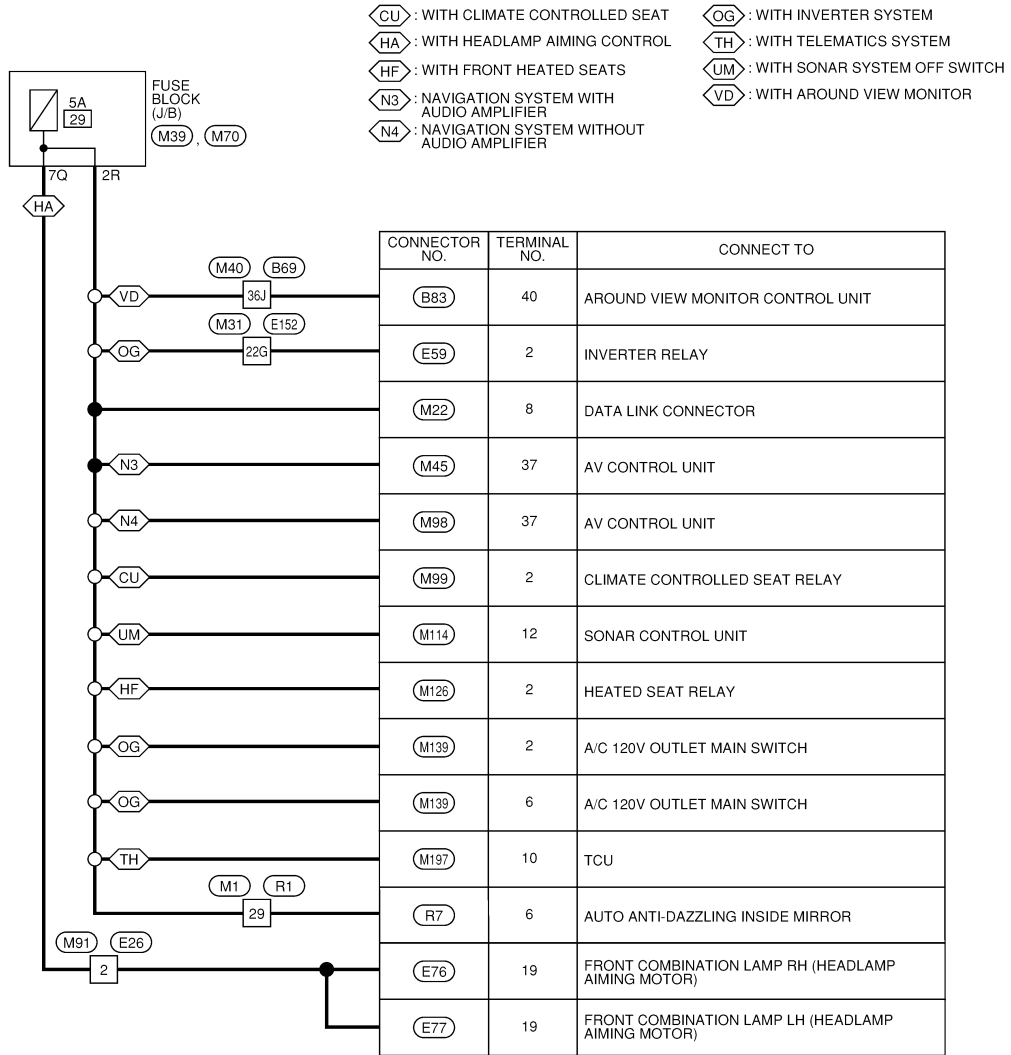
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 29

INFOID:000000012918325

IGNITION POWER SUPPLY FUSE No. 29



AAMIA4520GB

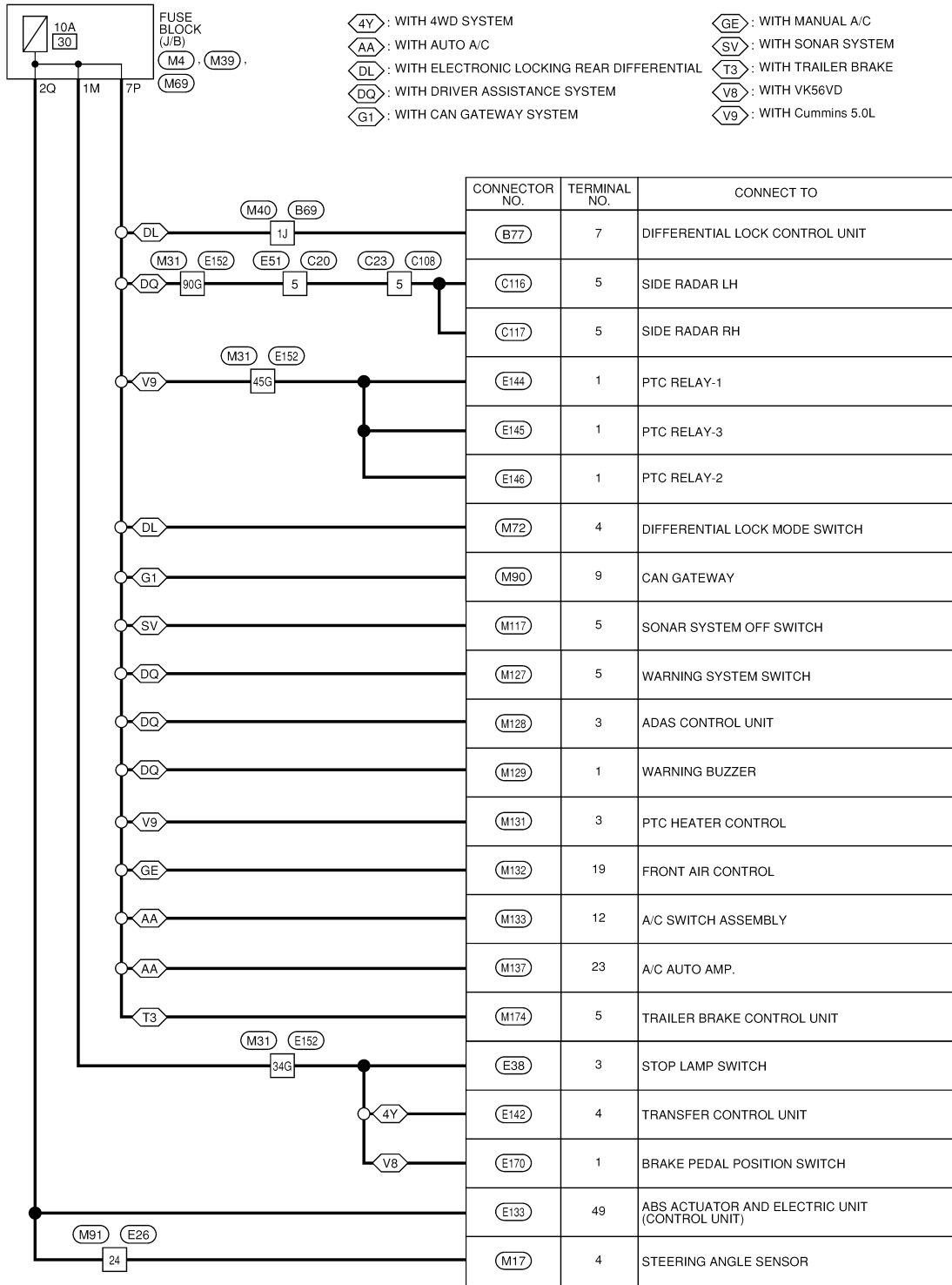
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 30 -

INFOID:000000012918326

IGNITION POWER SUPPLY FUSE No. 30



AAMIA4521GB

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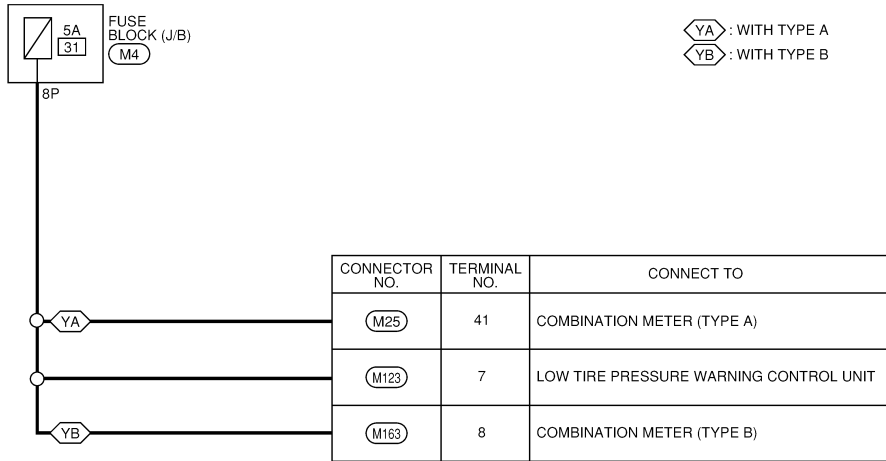
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 31 - WITH VK56VD -

INFOID:000000013802605

IGNITION POWER SUPPLY FUSE No. 31 - WITH VK56VD



AAMIA4522GB

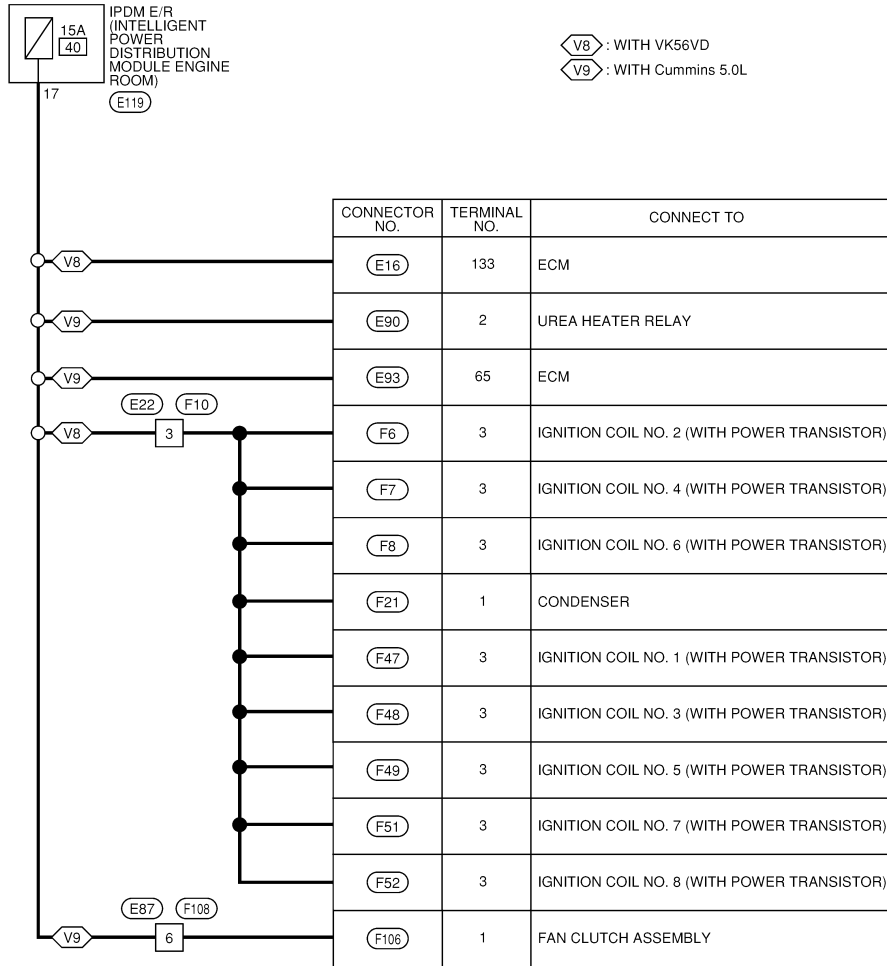
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 40 -

INFOID:000000012918327

IGNITION POWER SUPPLY FUSE No. 40



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AAMIA4523GB

GROUND

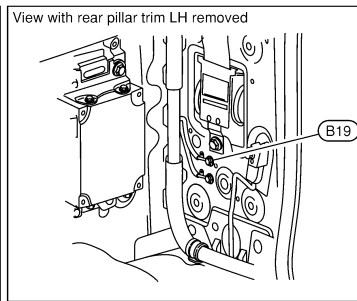
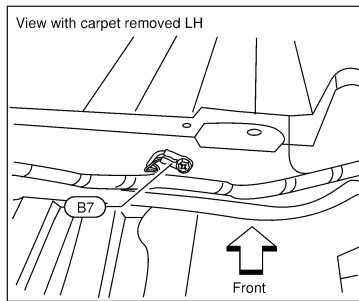
< WIRING DIAGRAM >

GROUND

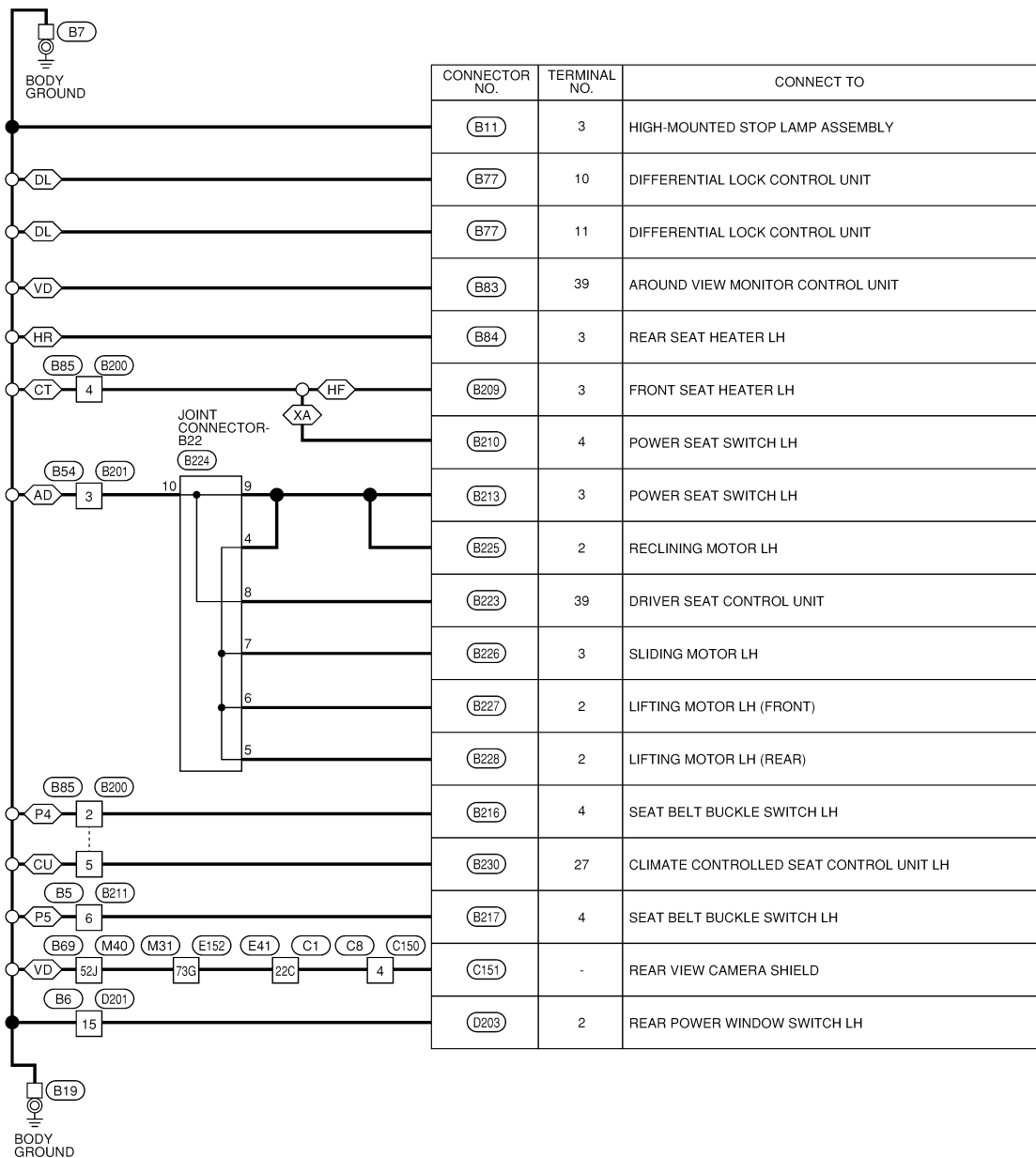
Ground Distribution

INFOID:000000012918329

BODY HARNESS



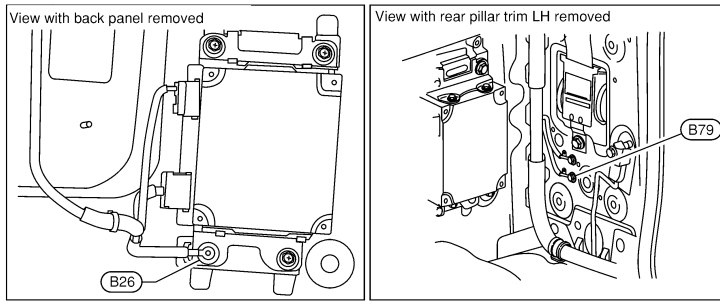
- ⬠AD : WITH AUTOMATIC DRIVE POSITIONER
- ⬠CT : WITHOUT CLIMATE CONTROLLED SEAT
- ⬠CU : WITH CLIMATE CONTROLLED SEAT
- ⬠DL : WITH ELECTRONIC LOCKING REAR DIFFERENTIAL
- ⬠HF : WITH FRONT HEATED SEATS
- ⬠HR : WITH REAR HEATED SEATS
- ⬠P4 : WITH DRIVER POWER SEAT
- ⬠P5 : WITHOUT DRIVER POWER SEAT
- ⬠VD : WITH AROUND VIEW MONITOR
- ⬠XA : WITHOUT AUTOMATIC DRIVE POSITIONER



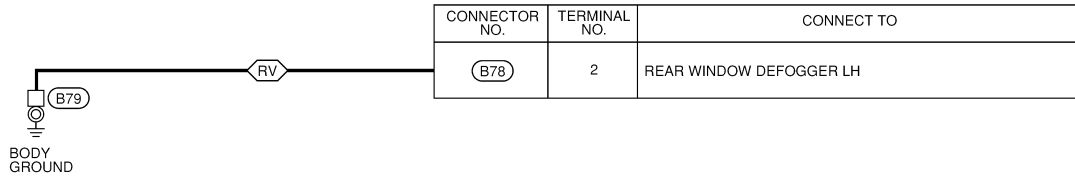
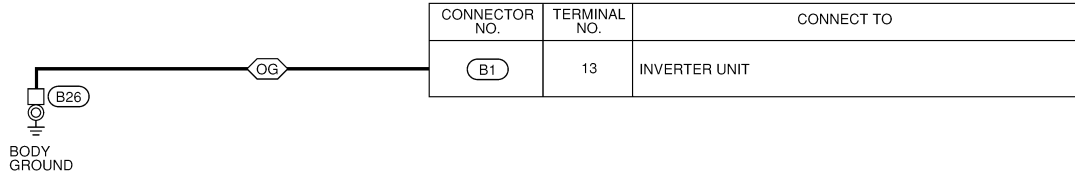
AAMIA3766GB

GROUND

< WIRING DIAGRAM >



OG : WITH INVERTER SYSTEM
RV : WITH REAR WINDOW DEFOGGER



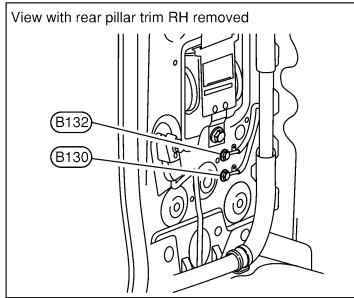
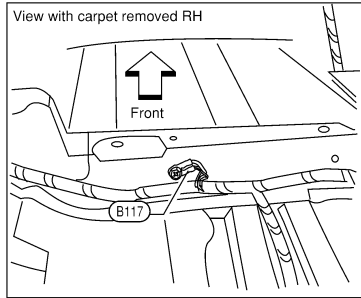
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AAMIA3767GB

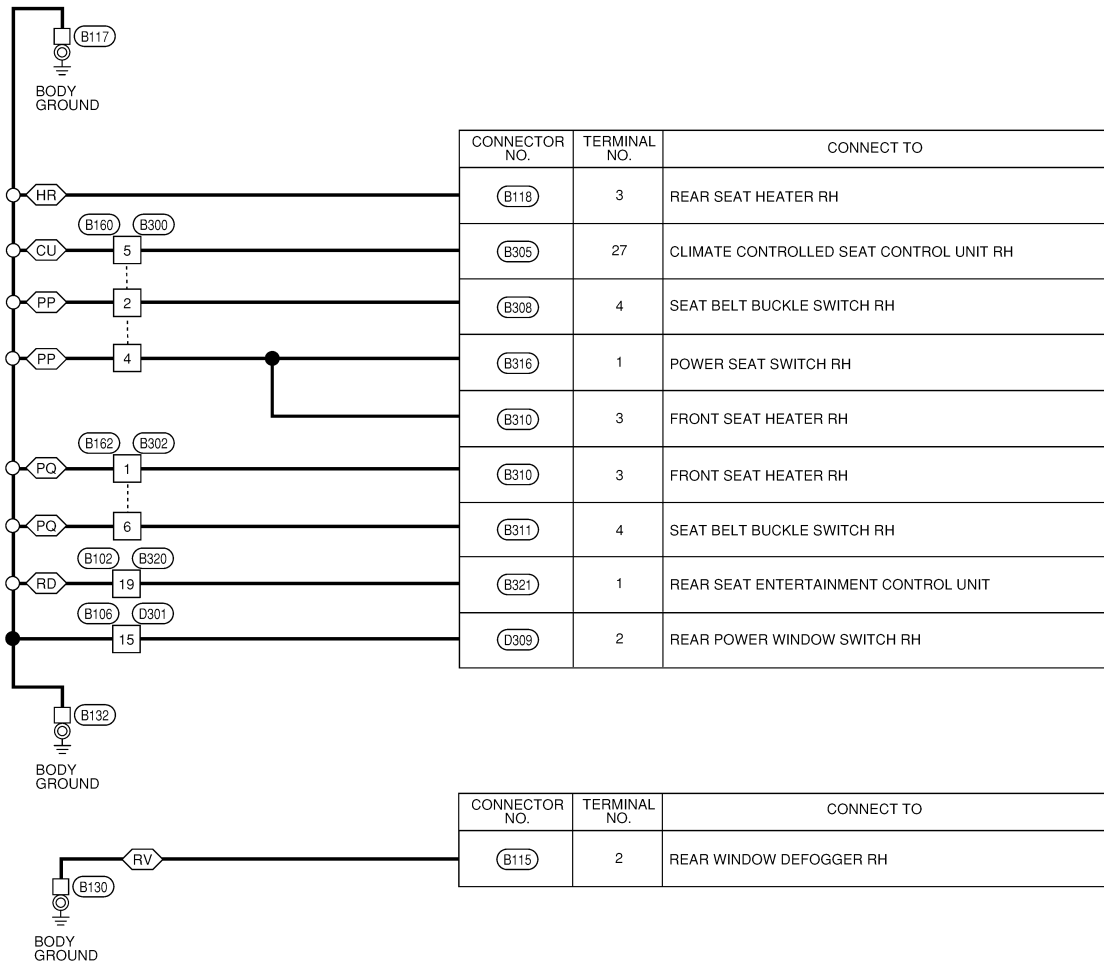
GROUND

< WIRING DIAGRAM >

BODY NO. 2 HARNESS



- ⬡CU : WITH CLIMATE CONTROLLED SEAT
- ⬡HR : WITH REAR HEATED SEATS
- ⬡PP : WITH FRONT PASSENGER POWER SEAT
- ⬡PQ : WITHOUT FRONT PASSENGER POWER SEAT
- ⬡RD : WITH REAR ENTERTAINMENT SYSTEM
- ⬡RV : WITH REAR WINDOW DEFOGGER

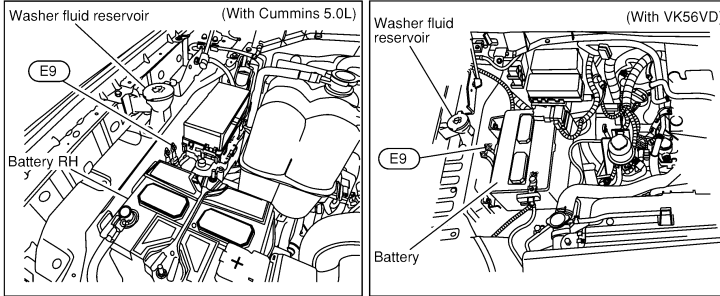


AAMIA3812GB

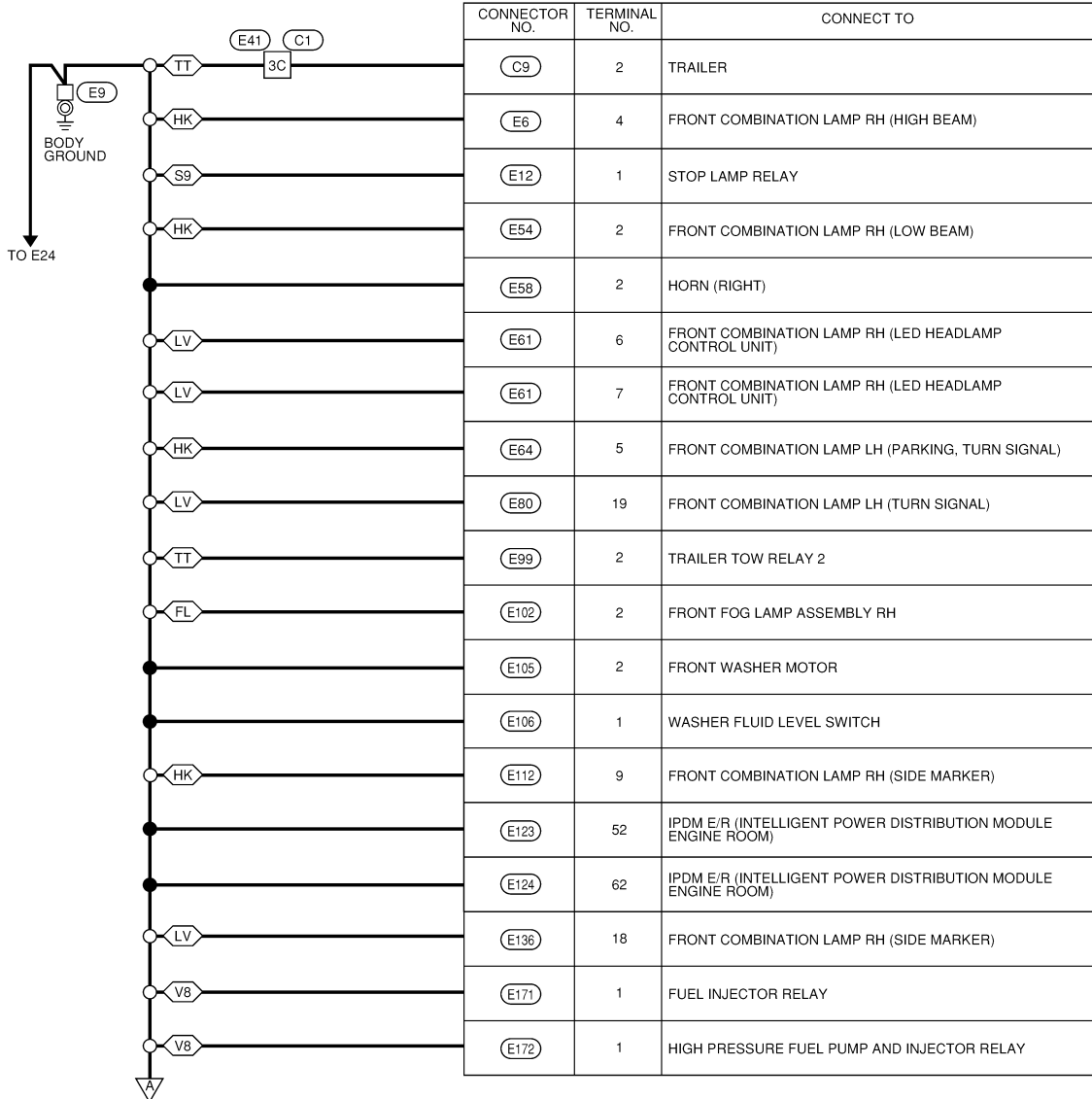
GROUND

< WIRING DIAGRAM >

ENGINE ROOM HARNESS



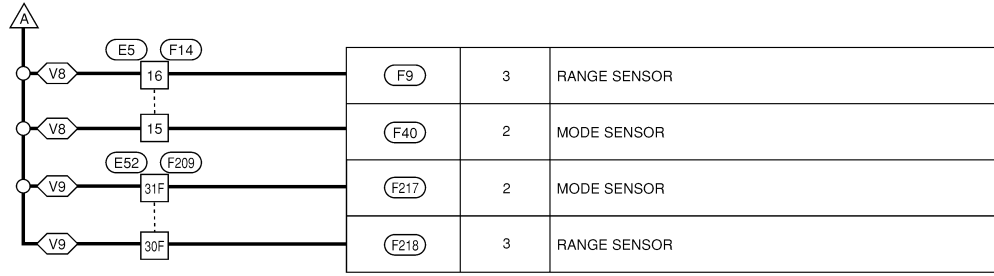
- ⬡ FL : WITH FRONT FOG LAMPS
- ⬡ HK : WITH HALOGEN HEADLAMPS
- ⬡ LV : WITH LED HEADLAMPS
- ⬡ S9 : WITHOUT LED REAR COMBINATION LAMPS
- ⬡ TT : WITH TRAILER TOW
- ⬡ 4Y : WITH 4WD SYSTEM
- ⬡ V8 : WITH VK56VD
- ⬡ V9 : WITH Cummins 5.0L



AAMIA4407GB

GROUND

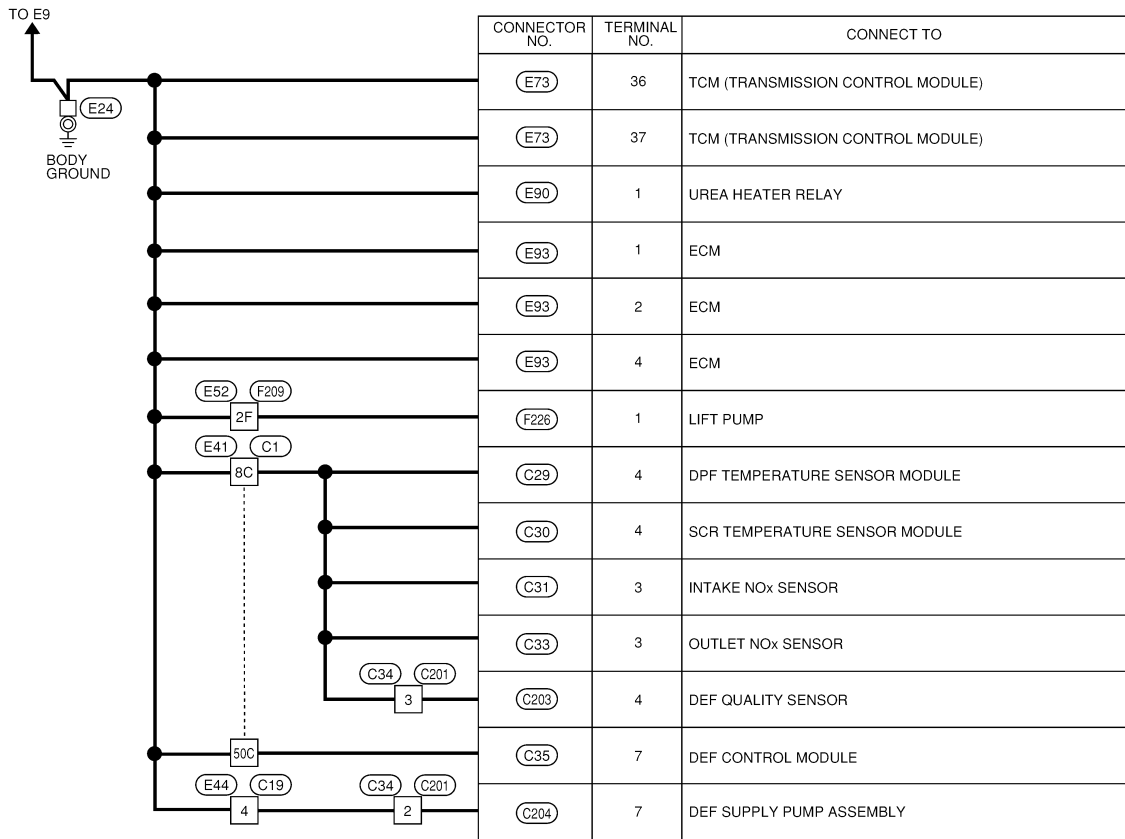
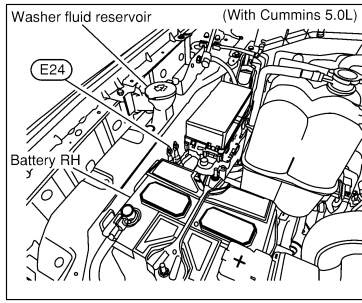
< WIRING DIAGRAM >



AAMIA4408GB

GROUND

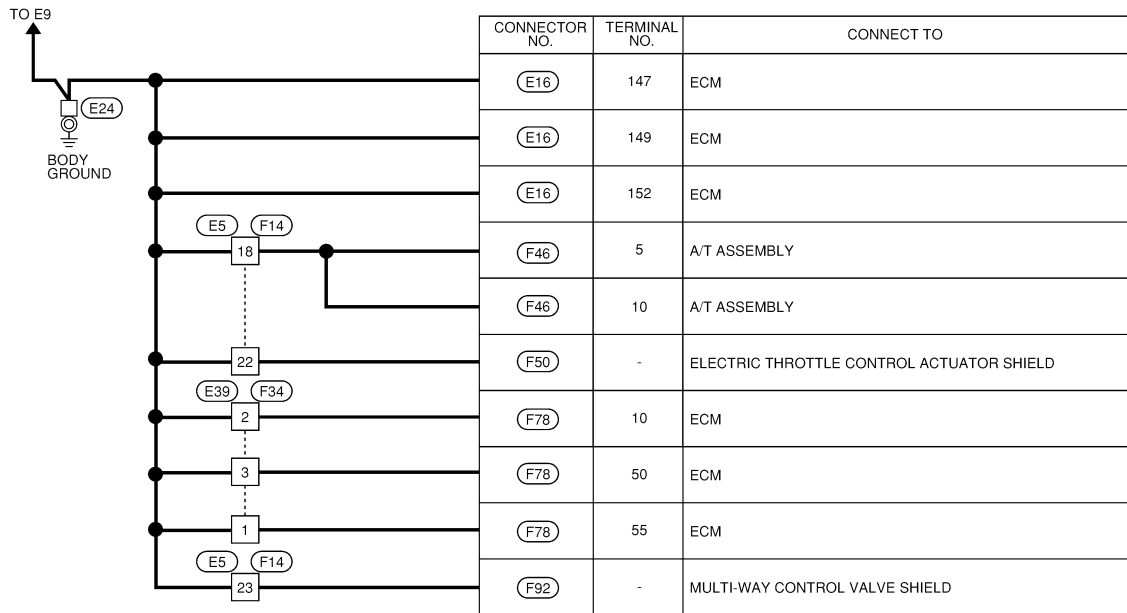
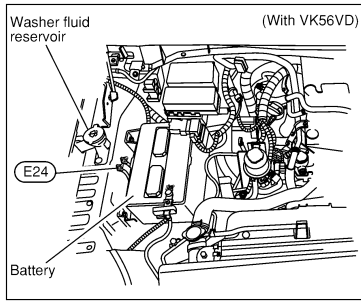
< WIRING DIAGRAM >



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GROUND

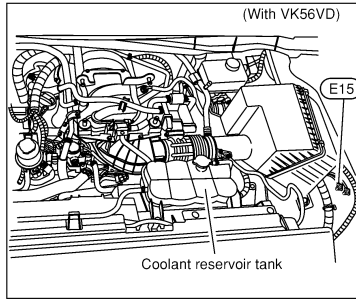
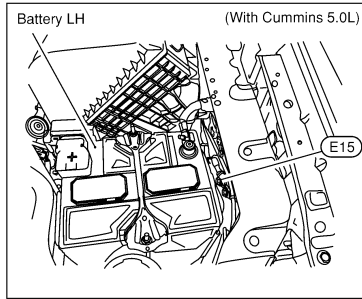
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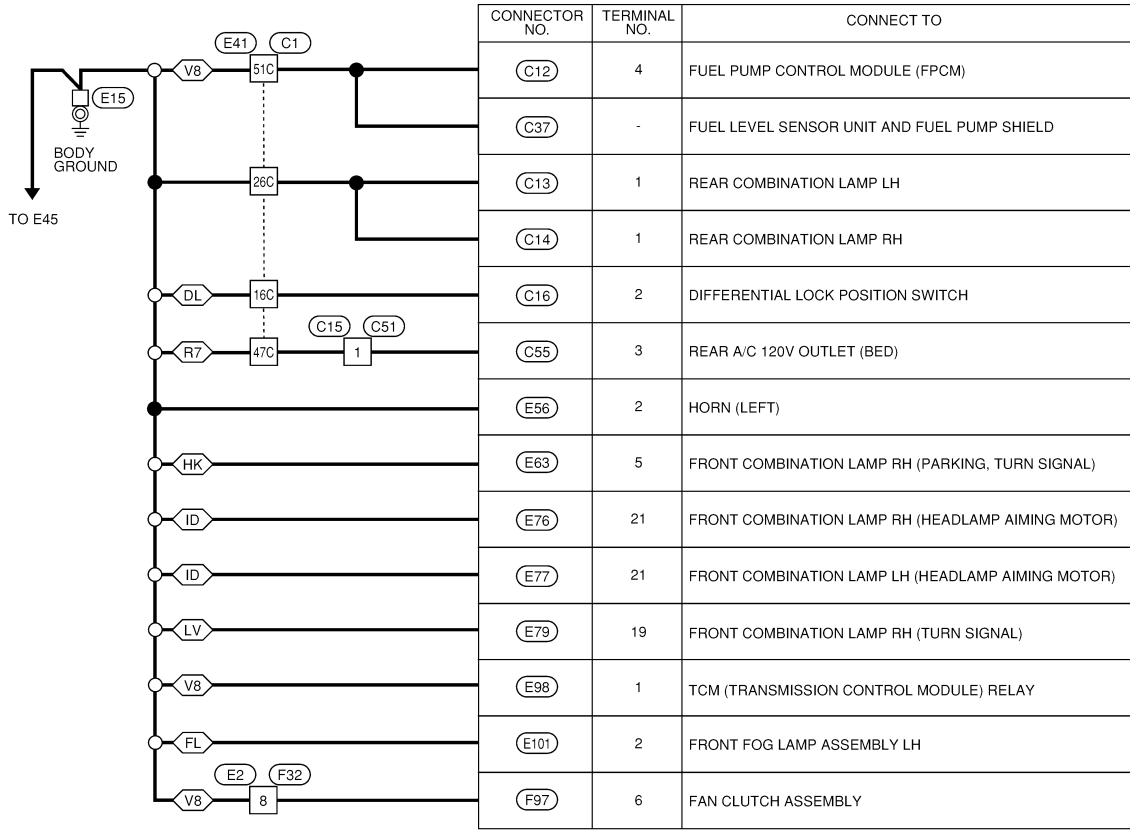
AAMIA4410GB

GROUND

< WIRING DIAGRAM >



- DL : WITH ELECTRONIC LOCKING REAR DIFFERENTIAL
- FL : WITH FRONT FOG LAMPS
- HK : WITH HALOGEN HEADLAMPS
- ID : WITH MANUAL HEADLAMP AIMING CONTROL
- LV : WITH LED HEADLAMPS
- R7 : WITH REAR CARGO BED AC 120V OUTLET
- V8 : WITH VK56VD

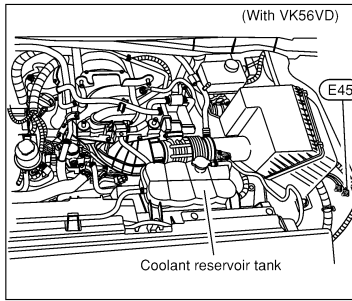
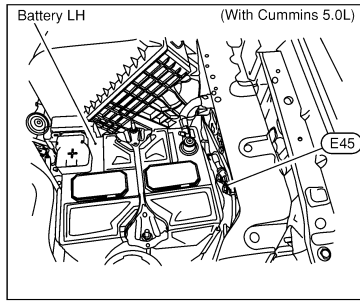


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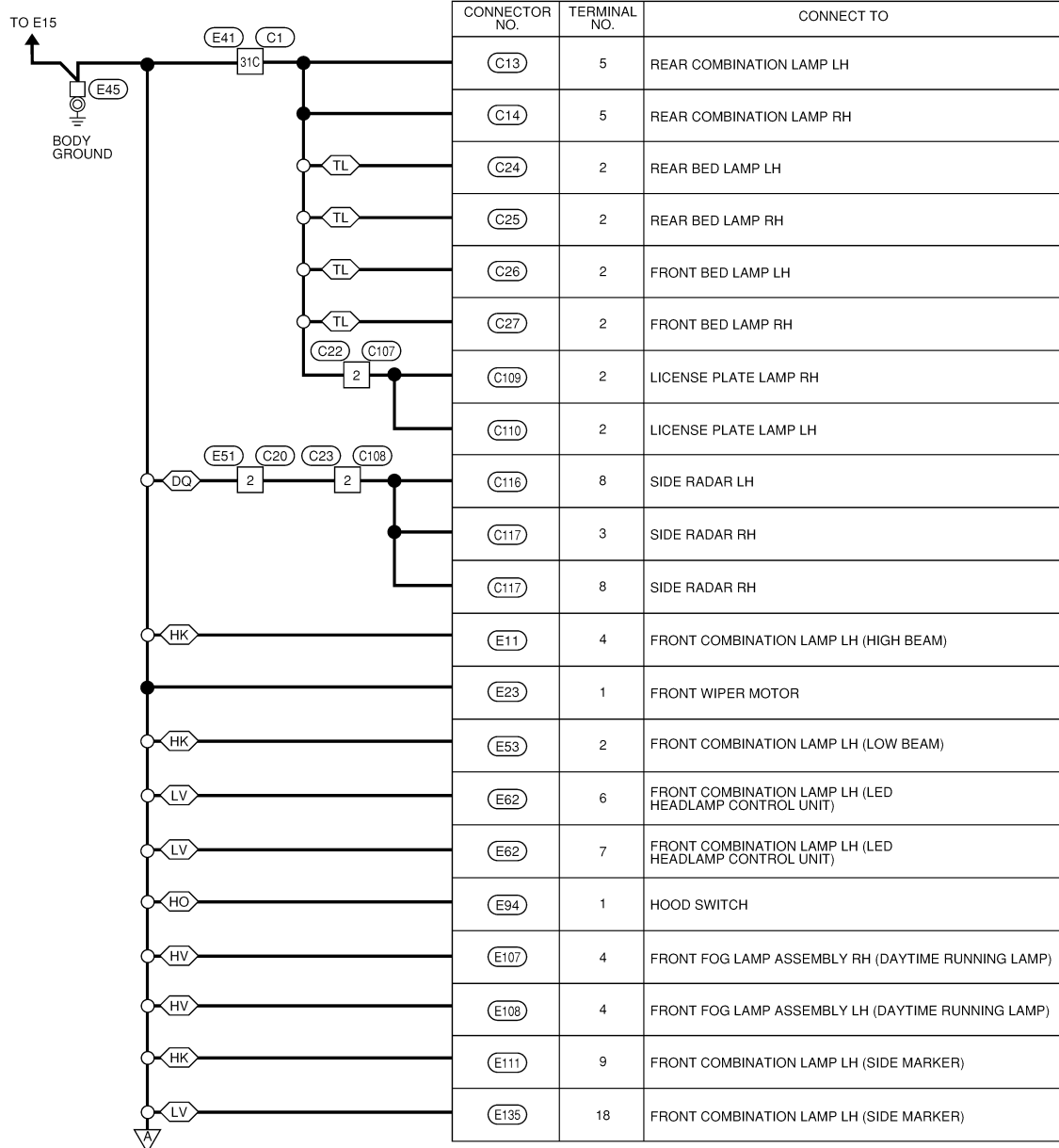
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GROUND

< WIRING DIAGRAM >



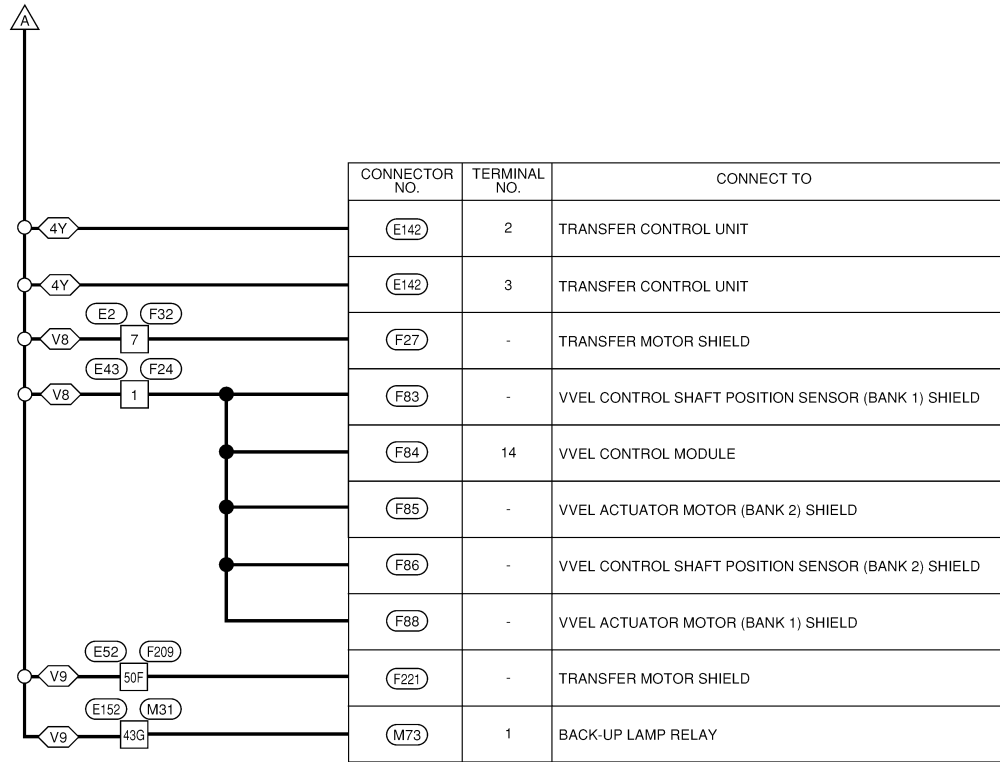
- ◇DQ : WITH DRIVER ASSISTANCE SYSTEM
- ◇HK : WITH HALOGEN HEADLAMPS
- ◇HO : WITH HOOD SWITCH
- ◇HV : WITH HALOGEN HEADLAMPS AND DAYTIME RUNNING LIGHT SYSTEM
- ◇LV : WITH LED HEADLAMPS
- ◇4Y : WITH 4WD SYSTEM
- ◇TL : WITH TAILGATE CARGO LAMPS
- ◇V8 : WITH VK56VD
- ◇V9 : WITH Cummins 5.0L



AAMIA4412GB

GROUND

< WIRING DIAGRAM >



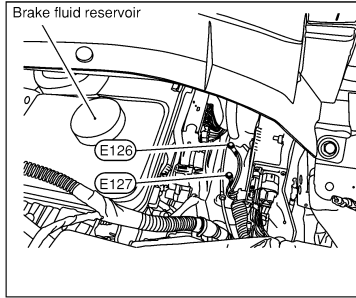
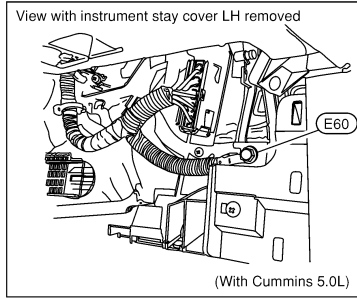
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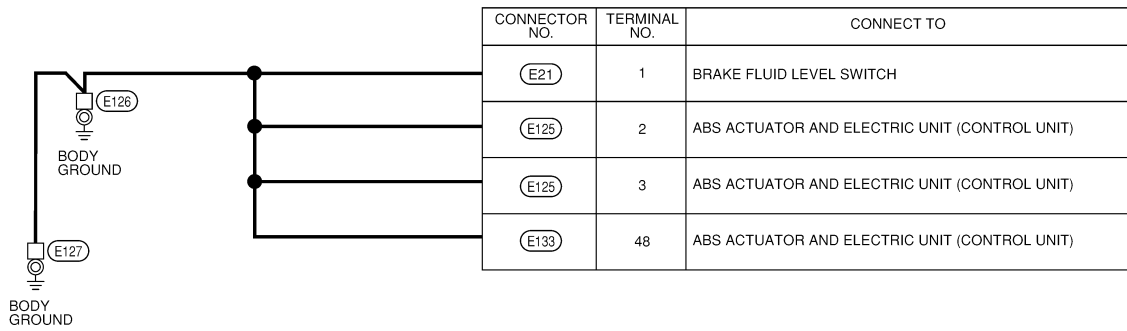
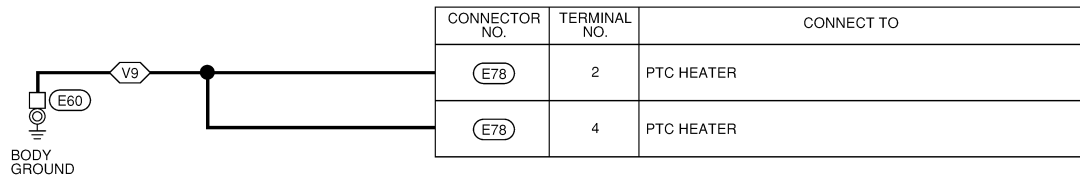
AAMIA4413GB

GROUND

< WIRING DIAGRAM >



V9 > : WITH Cummins 5.0L

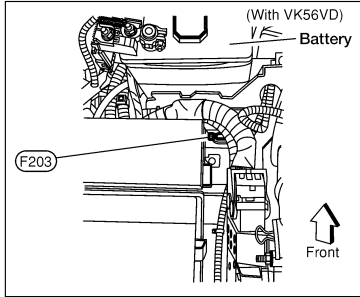
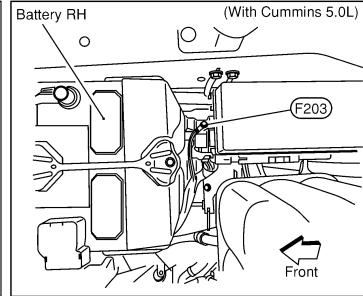
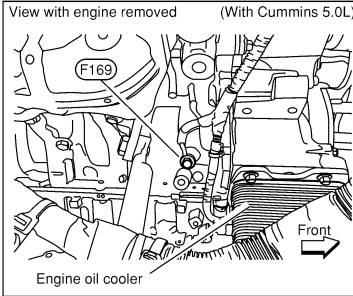
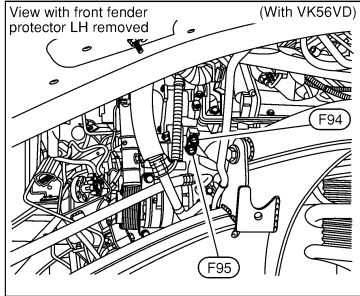


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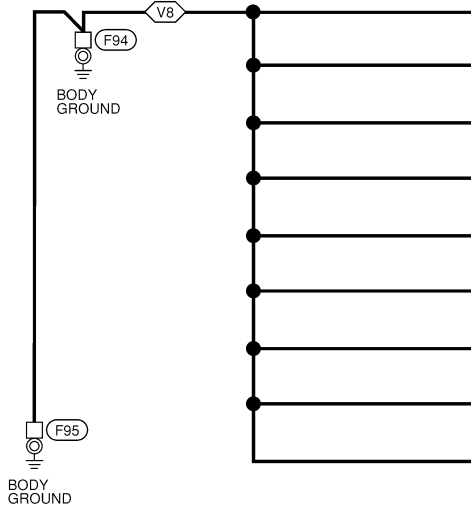
GROUND

< WIRING DIAGRAM >

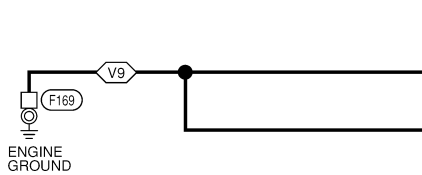
ENGINE CONTROL HARNESS



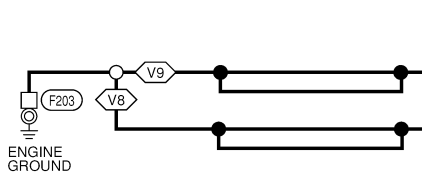
V8 : WITH VK56VD
V9 : WITH Cummins 5.0L



CONNECTOR NO.	TERMINAL NO.	CONNECT TO
F6	2	IGNITION COIL NO. 2 (WITH POWER TRANSISTOR)
F7	2	IGNITION COIL NO. 4 (WITH POWER TRANSISTOR)
F8	2	IGNITION COIL NO. 6 (WITH POWER TRANSISTOR)
F21	2	CONDENSER
F47	2	IGNITION COIL NO. 1 (WITH POWER TRANSISTOR)
F48	2	IGNITION COIL NO. 3 (WITH POWER TRANSISTOR)
F49	2	IGNITION COIL NO. 5 (WITH POWER TRANSISTOR)
F51	2	IGNITION COIL NO. 7 (WITH POWER TRANSISTOR)
F52	2	IGNITION COIL NO. 8 (WITH POWER TRANSISTOR)



CONNECTOR NO.	TERMINAL NO.	CONNECT TO
F102	6	GLOW PLUG CONTROL MODULE
F146	1	ROTARY TURBINE CONTROL ACTUATOR



CONNECTOR NO.	TERMINAL NO.	CONNECT TO
F201	5	GENERATOR
F240	5	GENERATOR

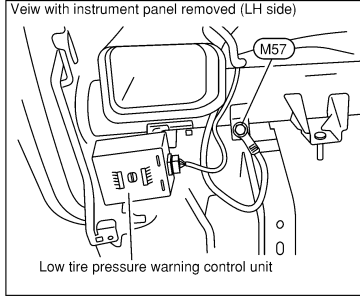
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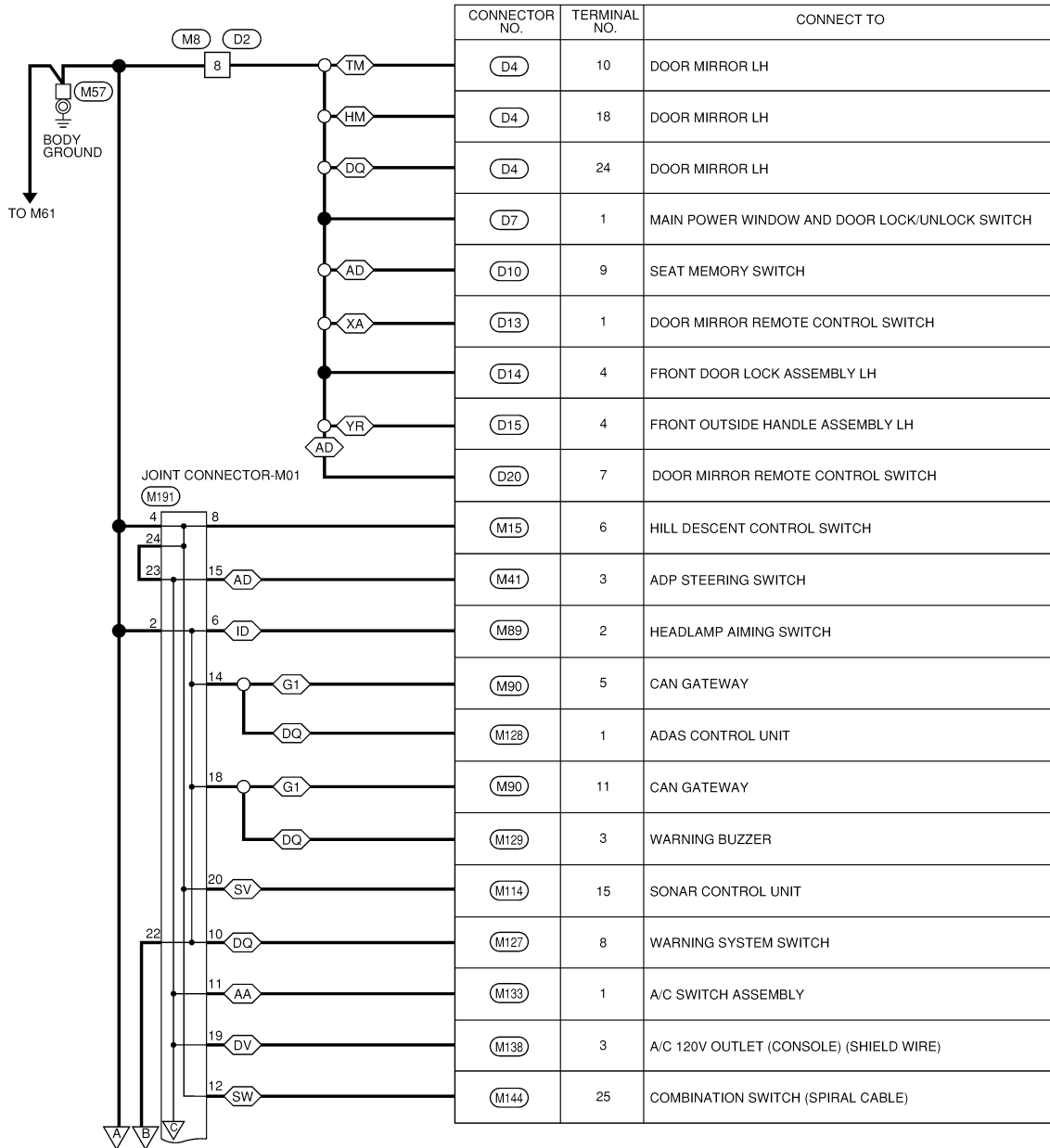
GROUND

< WIRING DIAGRAM >

MAIN HARNESS



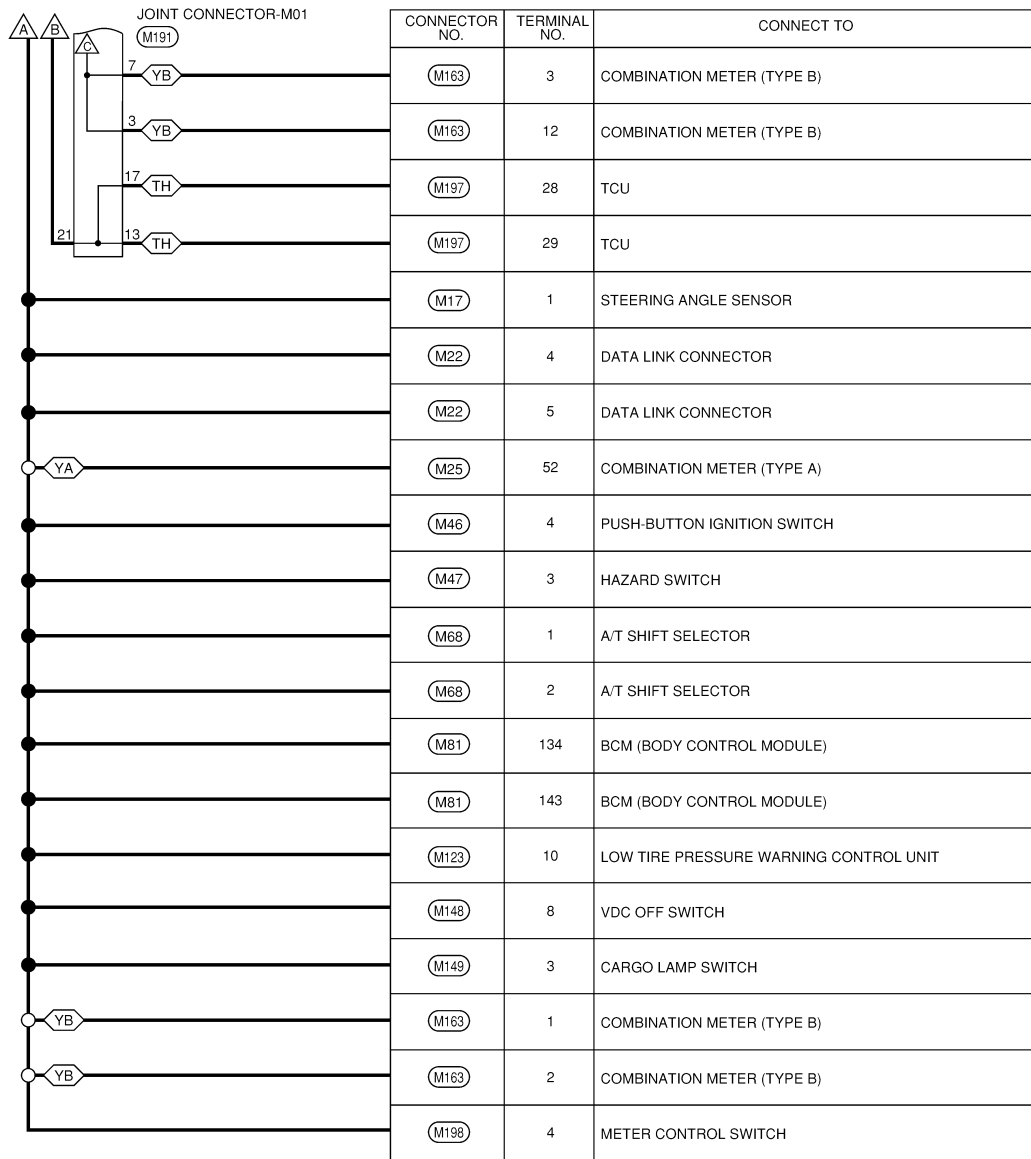
- AA : WITH AUTO A/C
- AD : WITH AUTOMATIC DRIVE POSITIONER
- DQ : WITH DRIVER ASSISTANCE SYSTEM
- DV : WITH REAR AC 120V OUTLET
- G1 : WITH CAN GATEWAY SYSTEM
- HM : WITH HEATED MIRRORS
- ID : WITH MANUAL HEADLAMP AIMING CONTROL
- SV : WITH SONAR SYSTEM
- SW : WITH HEATED STEERING WHEEL
- TH : WITH TELEMATICS SYSTEM
- TM : WITH TURN SIGNAL IN MIRROR
- XA : WITHOUT AUTOMATIC DRIVE POSITIONER
- YA : WITH TYPE A
- YB : WITH TYPE B
- YR : WITH REQUEST SWITCH



AAMIA4416GB

GROUND

< WIRING DIAGRAM >

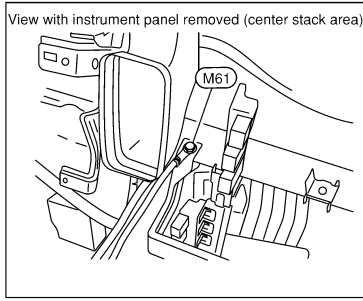


AAMIA4417GB

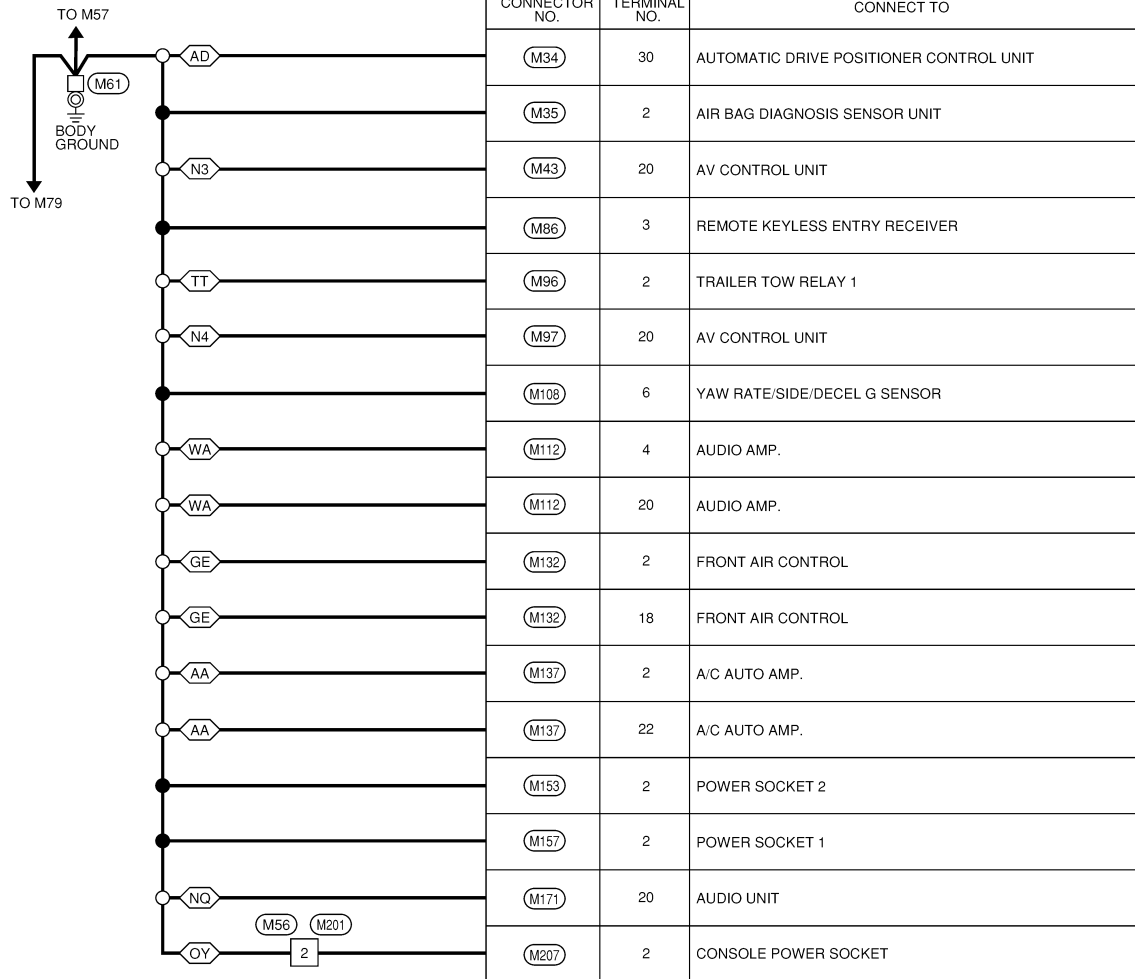
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GROUND

< WIRING DIAGRAM >



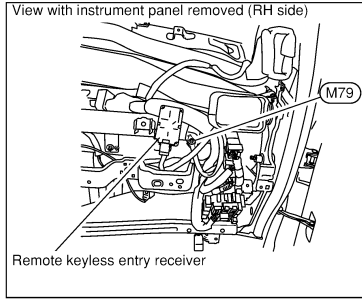
- AA : WITH AUTO A/C
- AD : WITH AUTOMATIC DRIVE POSITIONER
- GE : WITH MANUAL A/C
- N3 : NAVIGATION SYSTEM WITH AUDIO AMPLIFIER
- N4 : NAVIGATION SYSTEM WITHOUT AUDIO AMPLIFIER
- NQ : WITH DISPLAY AUDIO SYSTEM
- OY : WITH CONSOLE POWER SOCKET
- TT : WITH TRAILER TOW
- WA : WITH AUDIO AMPLIFIER



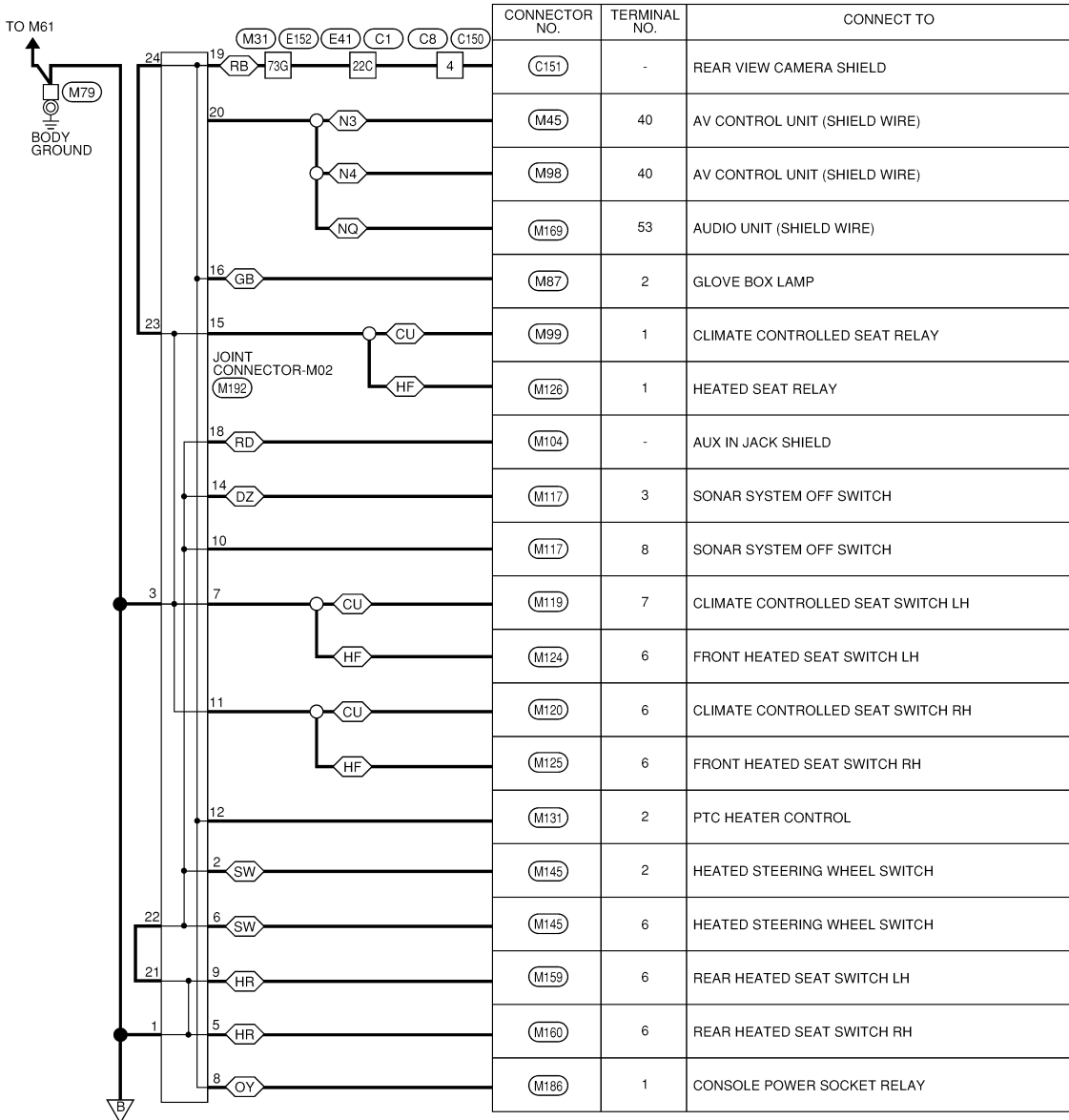
AAMIA3756GB

GROUND

< WIRING DIAGRAM >



- D3** : WITH POWER REAR GLASS
- CU** : WITH CLIMATE CONTROLLED SEAT
- CX** : WITHOUT FRONT ROOF CONSOLE
- DQ** : WITH DRIVER ASSISTANCE SYSTEM
- DZ** : WITHOUT DRIVER ASSISTANCE SYSTEM
- FC** : WITH FRONT ROOF CONSOLE
- GB** : WITH GLOVE BOX LAMP
- HF** : WITH FRONT HEATED SEATS
- HM** : WITH HEATED MIRRORS
- HR** : WITH REAR HEATED SEATS
- LF** : WITH RAIN SENSING FRONT WIPERS
- N** : FOR CANADA
- N3** : NAVIGATION SYSTEM WITH AUDIO AMPLIFIER
- N4** : NAVIGATION SYSTEM WITHOUT AUDIO AMPLIFIER
- NQ** : WITH DISPLAY AUDIO SYSTEM
- OY** : WITH CONSOLE POWER SOCKET
- RB** : WITH REAR VEIW CAMERA
- RD** : WITH REAR ENTERTAINMENT SYSTEM
- SW** : WITH HEATED STEERING WHEEL
- TH** : WITH TELEMATICS SYSTEM
- TM** : WITH TURN SIGNAL IN MIRROR
- T3** : WITH TRAILER BRAKE
- VN** : WITH VANITY LAMPS
- YR** : WITH REQUEST SWITCH

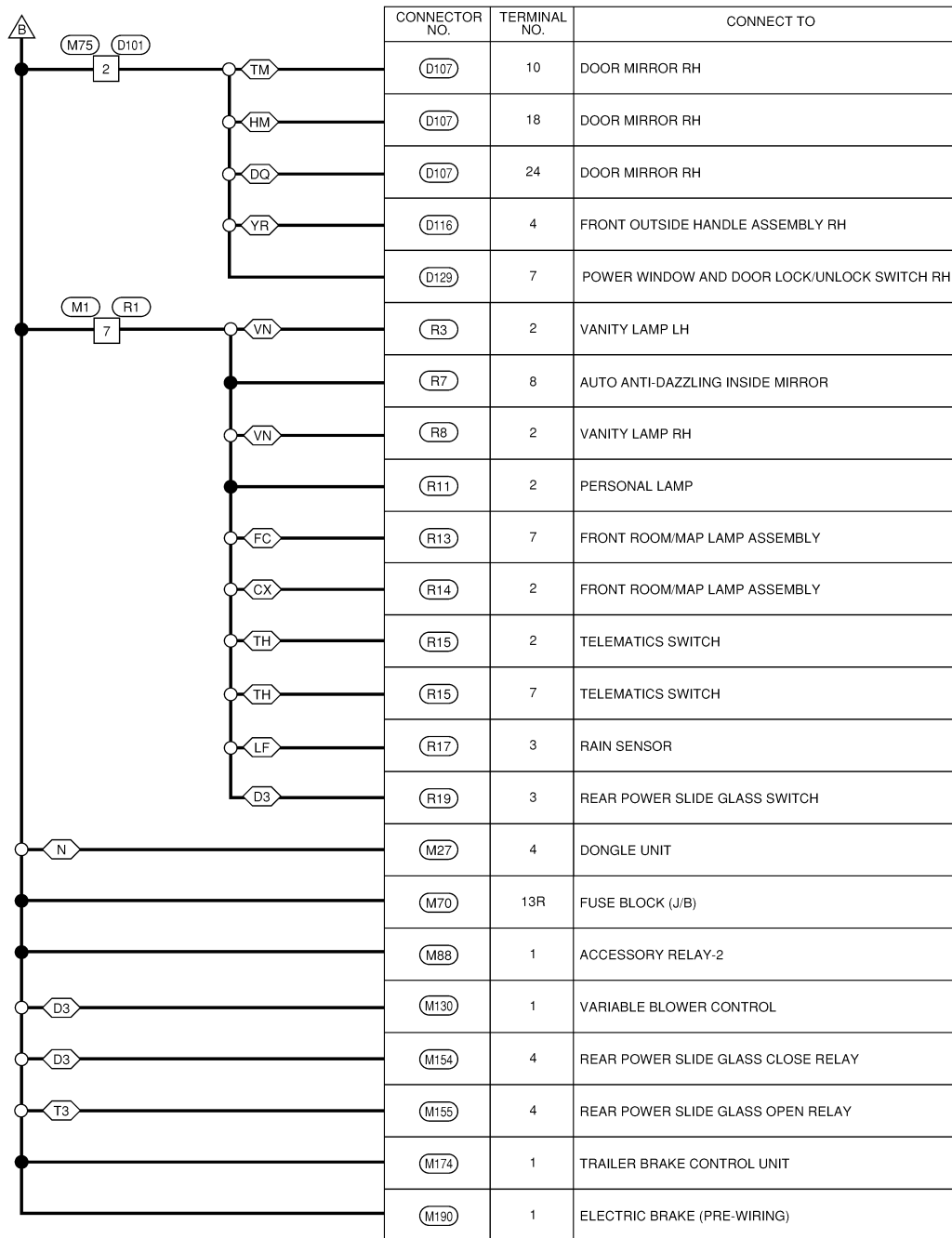


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< WIRING DIAGRAM >



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HARNESS

< WIRING DIAGRAM >

HARNESS

Harness Layout

INFOID:000000012546682

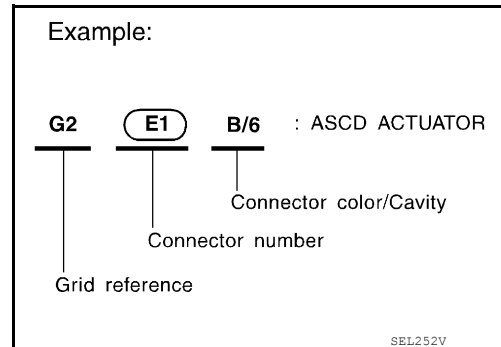
HOW TO READ HARNESS LAYOUT

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

- Body Harness and Body No. 2 Harness (Crew Cab Models)
- Chassis Harness, Rear Sonar Sensor Sub-harness, Rear Camera Sub-harness and Rear Power Socket Sub-harness (VK56VD)
- Chassis Harness, Rear Sonar Sensor Sub-harness, Rear Camera Sub-harness, Rear Power Socket Sub-harness, and DEF Tank Sub-harness (Cummins 5.0L)
- Engine Room Harness and Front Sonar Sensor Sub-harness (VK56VD)
- Engine Room Harness and Front Sonar Sensor Sub-harness (Cummins 5.0L)
- Engine Room Harness (Passenger Compartment)
- Engine Control Harness, Engine Control No. 2 Harness, Injector Sub-harness LH, Injector Sub-harness RH and Knock Sensor Sub-harness (VK56VD)
- Engine Control Harness (Cummins 5.0L)
- Engine Control No. 2 Harness (Cummins 5.0L)
- Main Harness, Console Sub-harness and HVAC Sub-harness
- Room Lamp Harness and Roof Antenna 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.



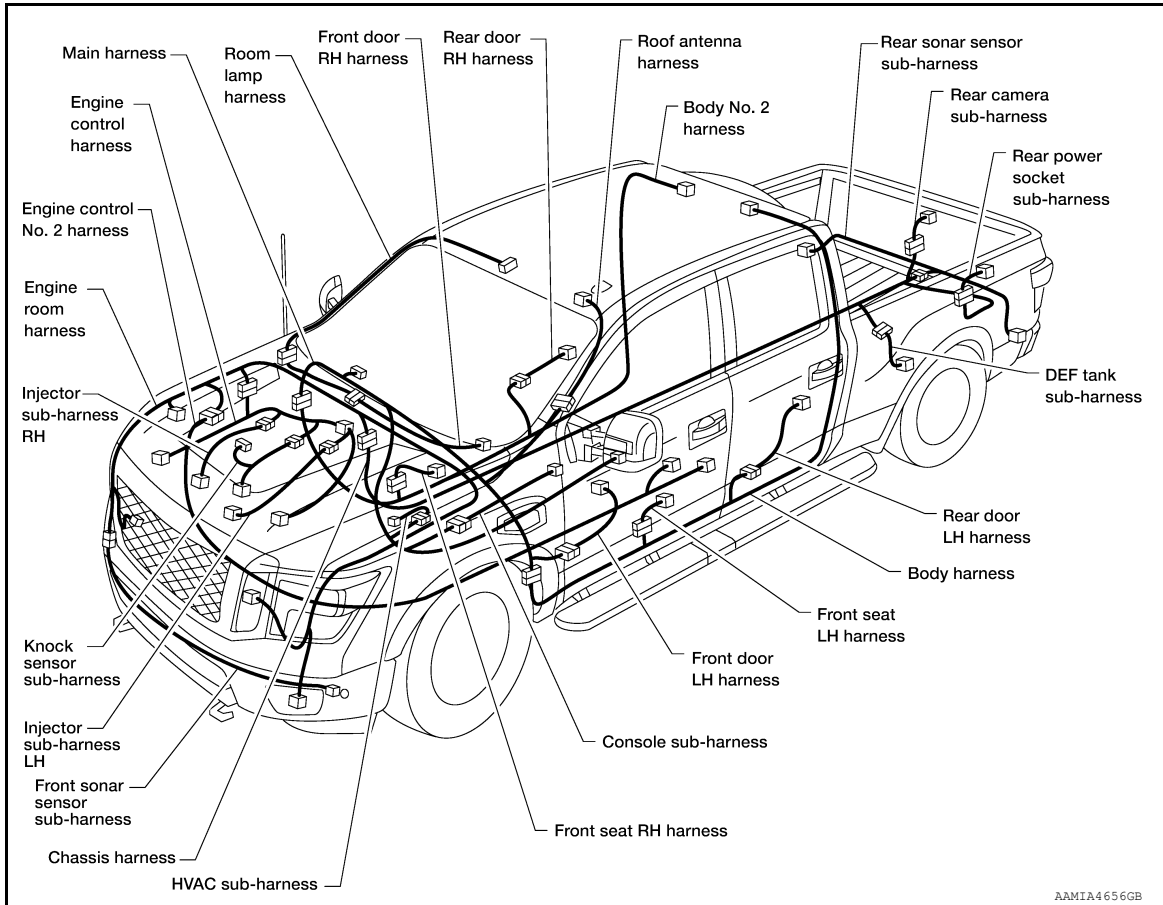
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HARNESS

< WIRING DIAGRAM >

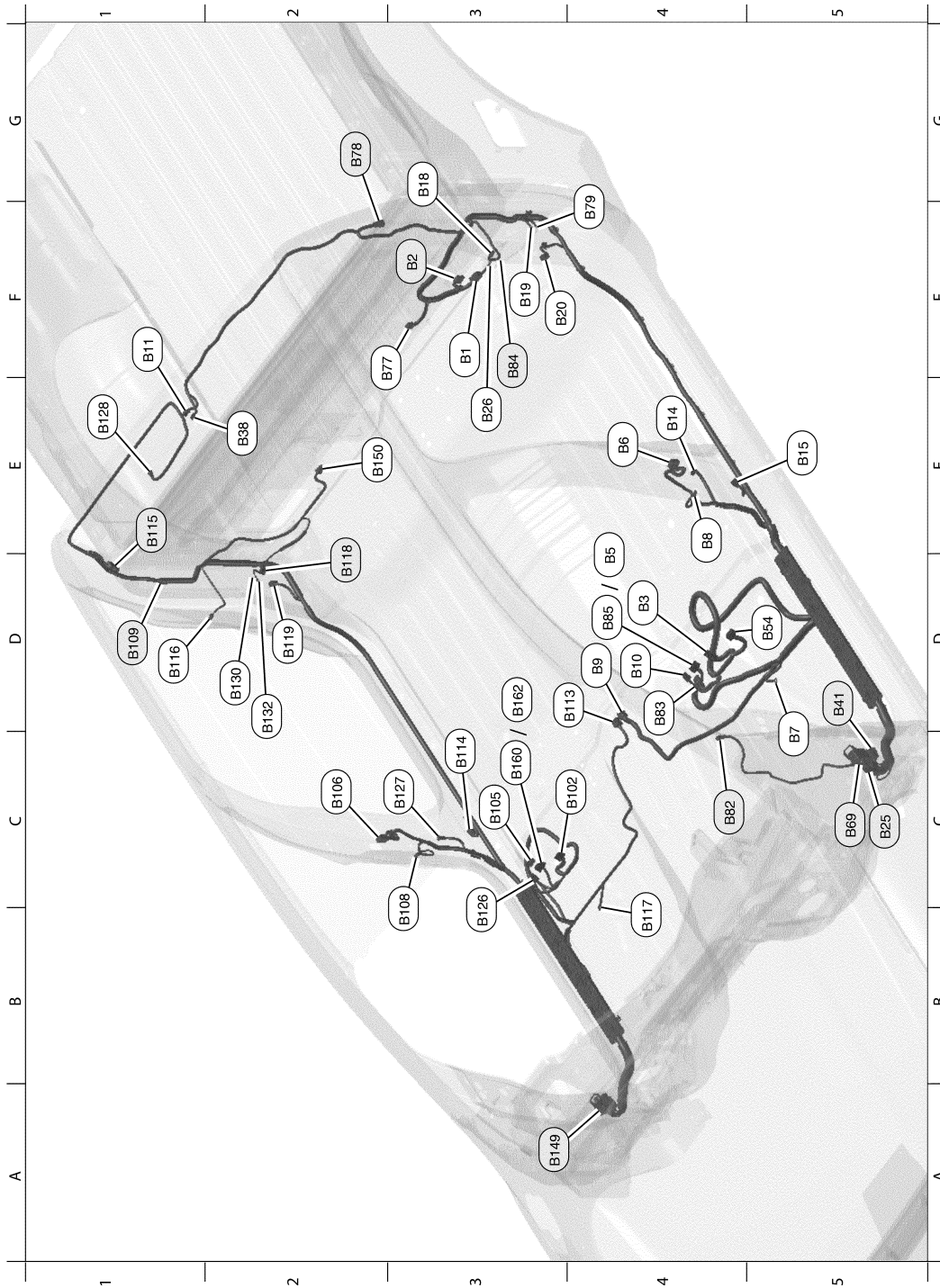
OUTLINE (CREW CAB MODELS)



HARNESS

< WIRING DIAGRAM >

BODY HARNESS (CREW CAB MODELS)



AAMIA06012Z

F3	B1	B/2	: Inverter unit	D4	B83	W/40	: Around view monitor control unit
F3	B2	W/12	: Inverter unit	F3	B84	W/3	: Rear seat heater LH
D4	B3	W/16	: To B236	D4	B85	W/12	: To B200
E4	B5	W/6	: To B211	Body No. 2 Harness			
E4	B6	W/18	: To D201	C4	B102	W/24	: To B320

HARNESS

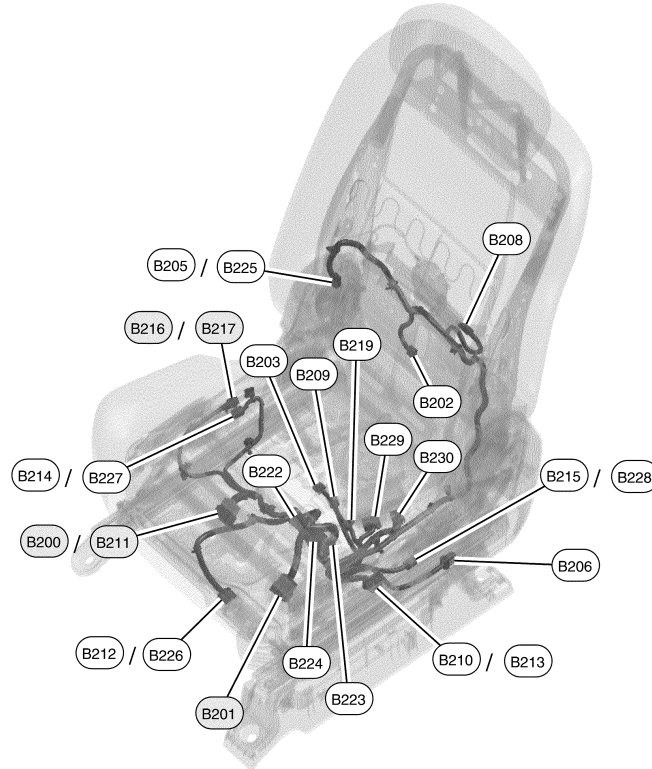
< WIRING DIAGRAM >

C5	B7	—	: Body ground	C3	B105	W/4	: Subwoofer
E4	B8	W/4	: Front door switch LH	C2	B106	W/18	: To D301
D4	B9	Y/12	: Air bag diagnosis sensor unit	C3	B108	W/4	: Front door switch RH
D4	B10	Y/2	: Side air bag module LH	D1	B109	W/3	: Tail gate lock
F1	B11	W/3	: High-mounted stop lamp assembly	D4	B113	Y/11	: Air bag diagnosis sensor unit
E4	B14	Y/2	: Front LH seat belt pre-tensioner	C3	B114	Y/2	: Front side air bag satellite sensor RH
E5	B15	Y/2	: Front side air bag satellite sensor LH	E1	B115	W/2	: Rear window defogger RH
G3	B18	W/4	: Rear door switch LH	D1	B116	W/4	: Rear door switch RH
F3	B19	—	: Body ground	B4	B117	—	: Body ground
F3	B20	Y/2	: Rear side air bag satellite sensor LH	D2	B118	W/3	: Rear seat heater RH
C5	B25	B/2	: To E34	D2	B119	Y/2	: Rear side air bag satellite sensor RH
E3	B26	—	: Body ground	C3	B126	Y/2	: Side air bag module RH
E2	B38	O/2	: LH side curtain air bag module	C3	B127	Y/2	: Front RH seat belt pre-tensioner
D5	B41	W/12	: To E35	E1	B128	Y/2	: RH side curtain air bag module
D5	B54	BR/12	: To B201	D2	B130	—	: Body ground
C5	B69	SMJ	: To M40	D2	B132	—	: Body ground
F2	B77	W/16	: Differential lock control unit	A3	B149	SMJ	: To M36
G2	B78	W/2	: Rear window defogger LH	E2	B150	B/2	: Rear power slide glass motor
F4	B79	—	: Body ground	C3	B160	W/12	: To B300
C4	B82	BR/2	: Front pillar speaker LH	D3	B162	W/6	: To B302

HARNESS

< WIRING DIAGRAM >

FRONT SEAT LH HARNESS



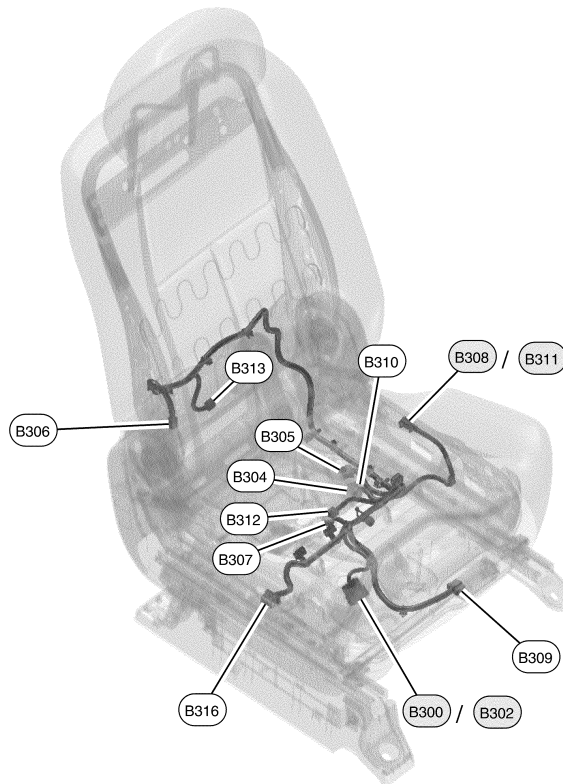
AAMIA0602ZZ

B200	W/12	: To B85	B215	GR/6	: Lifting motor LH (Rear) (Without automatic drive positioner)
B201	BR/12	: To B54	B216	W/4	: Seat belt buckle switch LH (With driver power seat)
B202	W/4	: Seat back thermal electric device LH	B217	W/4	: Seat belt buckle switch LH (Without driver power seat)
B203	W/4	: Seat cushion thermal electric device LH	B219	W/5	: Climate controlled seat blower motor LH
B205	GR/6	: Reclining motor LH (Without automatic drive positioner)	B222	W/32	: Driver seat control unit
B206	BR/4	: Lumbar support switch	B223	W/12	: Driver seat control unit
B208	B/2	: Lumbar support motor	B224	P/20	: Joint connector-B22
B209	W/3	: Front seat heater LH	B225	GR/6	: Reclining motor LH (With automatic drive positioner)
B210	W/10	: Power seat switch LH (Without automatic drive positioner)	B226	GR/5	: Sliding motor LH (With automatic drive positioner)
B211	W/6	: To B5	B227	GR/5	: Lifting motor LH (Front) (With automatic drive positioner)
B212	GR/5	: Sliding motor LH (Without automatic drive positioner)	B228	GR/6	: Lifting motor LH (Rear) (With automatic drive positioner)
B213	W/10	: Power seat switch LH (With automatic drive positioner)	B229	W/24	: Climate controlled seat control unit LH
B214	GR/6	: Lifting motor LH (Front) (Without automatic drive positioner)	B230	B/6	: Climate controlled seat control unit LH

HARNESS

< WIRING DIAGRAM >

FRONT SEAT RH HARNESS



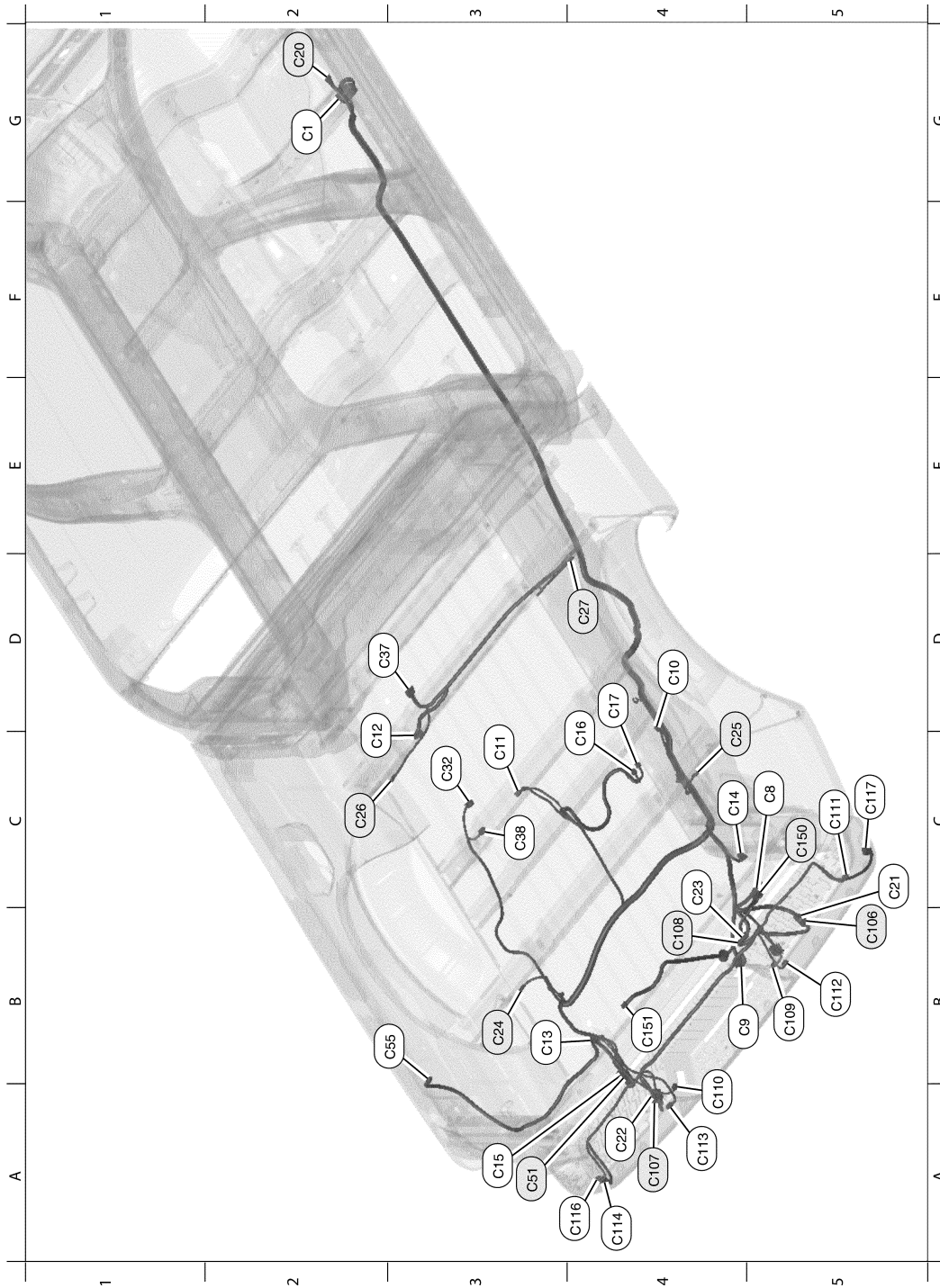
AAMIA0603ZZ

B300	W/16	: To B160	B309	GR/5	: Sliding motor RH
B302	W/6	: To B162	B310	W/3	: Front seat heater RH
B304	W/24	: Climate controlled seat control unit RH	B311	W/4	: Seat belt buckle switch RH (Without front passenger power seat)
B305	B/6	: Climate controlled seat control unit RH	B312	W/4	: Seat cushion thermal electric device RH
B306	GR/6	: Reclining motor RH	B313	W/4	: Seat back thermal electric device RH
B307	W/5	: Climate controlled seat blower motor RH	B316	W/10	: Power seat switch RH
B308	W/4	: Seat belt buckle switch RH (With front passenger power seat)			

HARNESS

< WIRING DIAGRAM >

CHASSIS HARNESS (VK56VD)



AAMIA07222Z

G2	C1	GR/52	: To E41	D2	C37	GR/6	: Fuel level sensor unit and fuel pump
C5	C8	B/6	: To C150	C3	C38	B/2	: EVAP canister vent control valve
B4	C9	B/7	: Trailer	Rear Power Socket Sub-harness			
D4	C10	GR/2	: Rear wheel sensor RH	A3	C51	GR/4	: To C15
C3	C11	B/2	: Rear wheel sensor LH	B3	C55	GR/4	: Rear A/C 120v outlet (Bed)

HARNESS

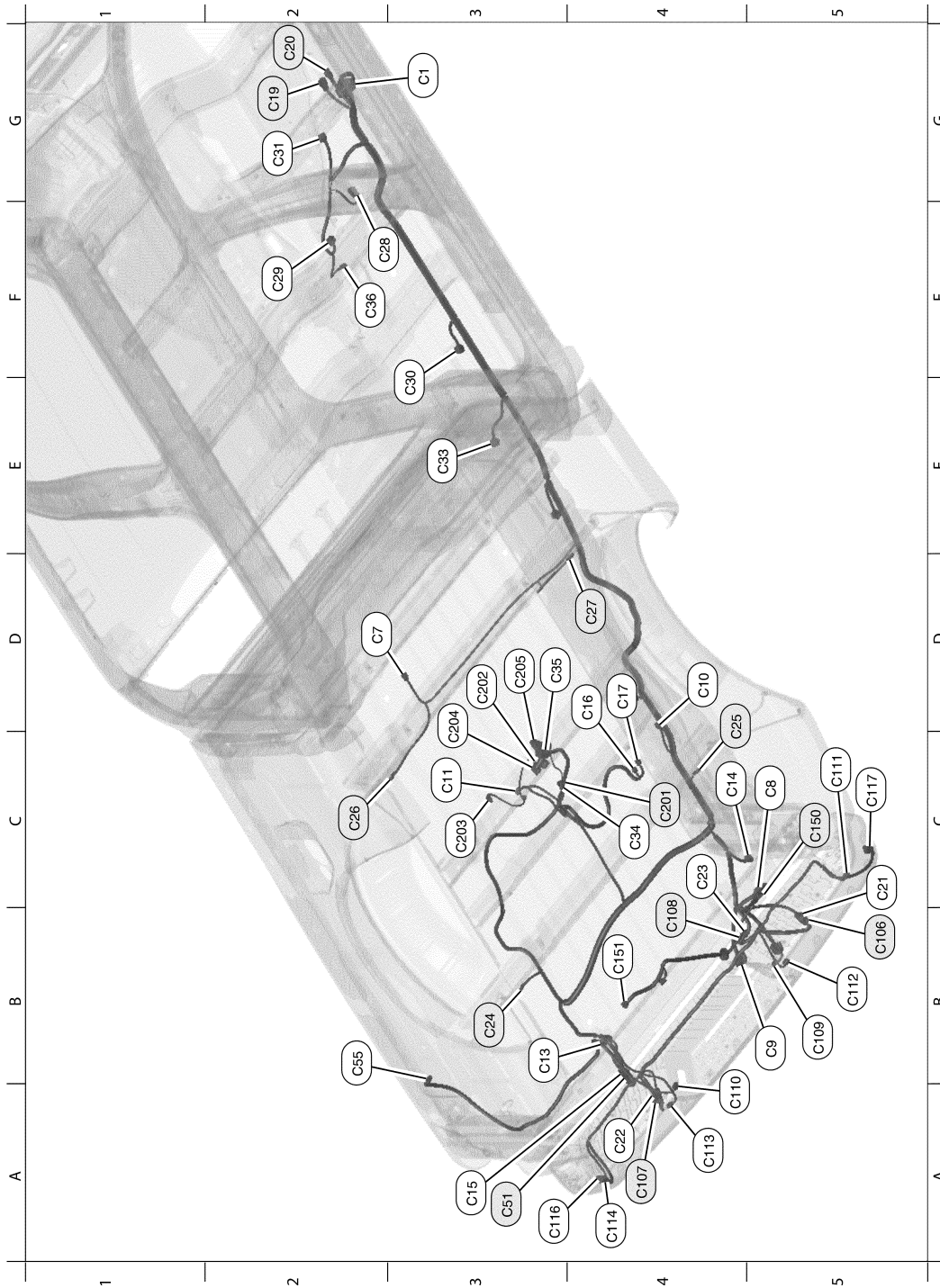
< WIRING DIAGRAM >

C2	C12	GR/6	: Fuel pump control module (FPCM)	Rear Sonar Sensor Sub-harness			
B3	C13	GR/8	: Rear combination lamp LH	B5	C106	W/8	: To C21
C4	C14	GR/8	: Rear combination lamp RH	A4	C107	W/2	: To C22
A3	C15	GR/4	: To C51	B4	C108	B/12	: To C23
D4	C16	GR/2	: Differential lock position switch	B5	C109	B/2	: License plate lamp RH
D4	C17	B/2	: Differential lock solenoid	A4	C110	B/2	: License plate lamp LH
G2	C20	B/12	: To E51	C5	C111	B/3	: Rear sonar sensor RH outer
C5	C21	W/8	: To C106	B5	C112	B/3	: Rear sonar sensor RH inner
A4	C22	W/2	: To C107	A4	C113	B/3	: Rear sonar sensor LH inner
C4	C23	B/12	: To C108	A4	C114	B/3	: Rear sonar sensor LH outer
B3	C24	B/2	: Rear bed lamp LH	A4	C116	B/8	: Side radar LH
C4	C25	B/2	: Rear bed lamp RH	C5	C117	B/8	: Side radar RH
C2	C26	B/2	: Front bed lamp LH	Rear Camera Sub-harness			
D4	C27	B/2	: Front bed lamp RH	C5	C150	B/6	: To C8
C3	C32	GR/3	: EVAP control system pressure sensor	B4	C151	B/4	: Rear view camera

HARNESS

< WIRING DIAGRAM >

CHASSIS HARNESS (Cummins 5.0L)



AAMIA06002Z

G3	C1	GR/52	: To E41	D3	C35	GR/13	: DEF control module
D2	C7	GR/2	: Fuel tank	F2	C36	BR/2	: DEF dosing valve
C5	C8	B/6	: To C150	Rear Power Socket Sub-harness			
B5	C9	B/7	: Trailer	A3	C51	GR/4	: To C15
D4	C10	GR/2	: Rear wheel sensor RH	B2	C55	GR/4	: Rear A/C 120V outlet (Bed)

HARNESSES

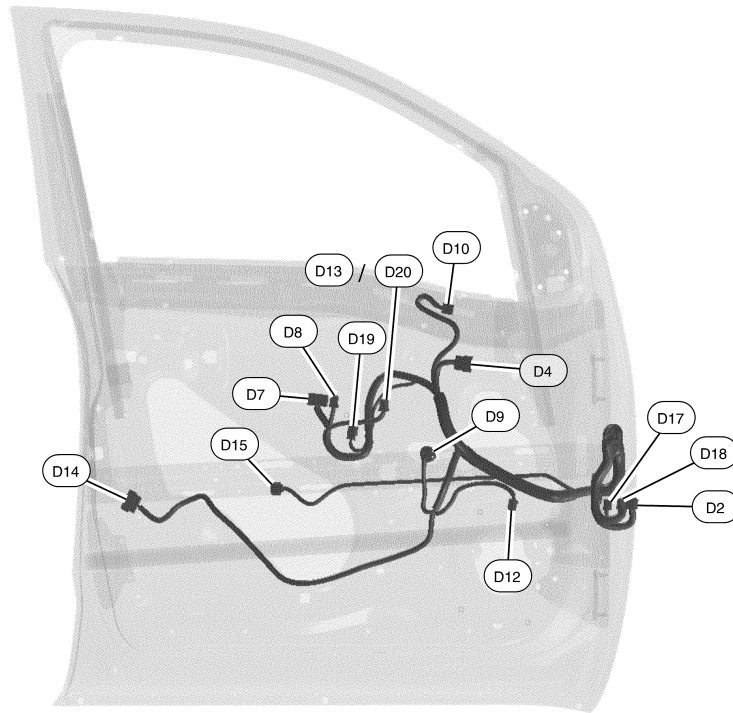
< WIRING DIAGRAM >

C3	C11	B/2	: Rear wheel sensor LH	Rear Sonar Sensor Sub-harness			
B3	C13	GR/8	: Rear combination lamp LH	B5	C106	W/8	: To C21
C4	C14	GR/8	: Rear combination lamp RH	A4	C107	W/2	: To C22
A3	C15	GR/4	: To C51	B4	C108	B/12	: To C23
D4	C16	GR/2	: Differential lock position switch	B5	C109	B/2	: License plate lamp RH
D4	C17	B/2	: Differential lock solenoid	A4	C110	B/2	: License plate lamp LH
G2	C19	GR/8	: To E44	C5	C111	B/3	: Rear sonar sensor RH outer
G2	C20	B/12	: To E51	B5	C112	B/3	: Rear sonar sensor RH inner
C5	C21	W/8	: To C106	A4	C113	B/3	: Rear sonar sensor LH inner
A4	C22	W/2	: To C107	A4	C114	B/3	: Rear sonar sensor LH outer
C4	C23	B/12	: To C108	A3	C116	B/8	: Side radar LH
B3	C24	B/2	: Rear bed lamp LH	C5	C117	B/8	: Side radar RH
D4	C25	B/2	: Rear bed lamp RH	Rear Camera Sub-harness			
C2	C26	B/2	: Front bed lamp LH	C5	C150	B/6	: To C8
D4	C27	B/2	: Front bed lamp RH	B4	C151	B/4	: Rear view camera
F2	C28	GR/4	: DPF differential pressure sensor	DEF tank Sub-harness			
F2	C29	W/4	: DPF temperature sensor module	C4	C201	B/6	: To C34
E3	C30	W/4	: SCR temperature sensor module	D3	C202	B/2	: DEF quality sensor
G2	C31	W/4	: Intake NOx sensor	C3	C203	B/4	: DEF line heater
E3	C33	W/4	: Outlet NOx sensor	D3	C204	B/16	: DEF supply pump assembly
C4	C34	B/6	: To C201	D3	C205	GR/16	: DEF control module

HARNESS

< WIRING DIAGRAM >

FRONT DOOR LH HARNESS



AAMIA06052Z

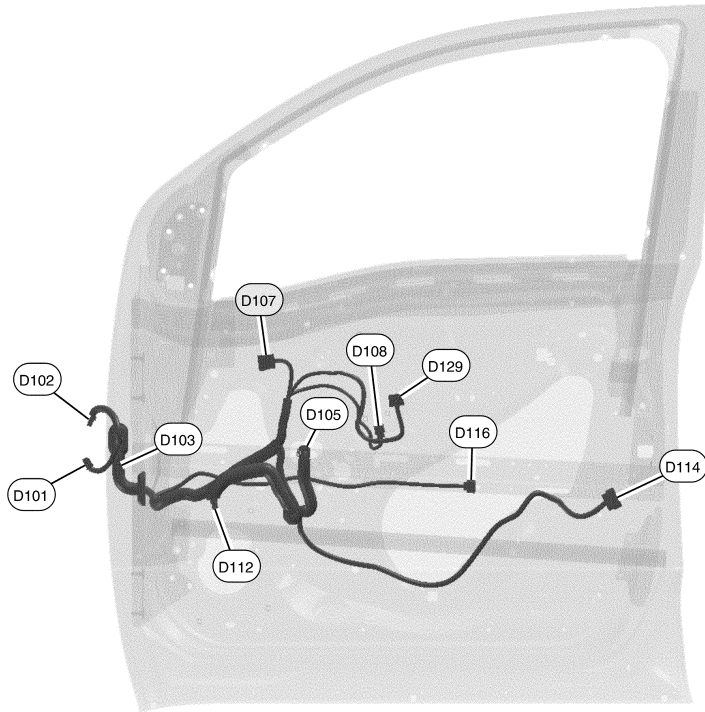
D2	W/16	: To M8	D13	W/16	: Door mirror remote control switch (Without automatic drive positioner)
D4	W/24	: Door mirror LH	D14	GR/6	: Front door lock assembly LH
D7	W/16	: Main power window and door lock/unlock switch	D15	B/4	: Front outside handle assembly LH
D8	W/3	: Main power window and door lock/unlock switch	D17	Y/4	: To M7
D9	G/6	: Front power window motor LH	D18	W/40	: To M14
D10	W/16	: Seat memory switch	D19	Y/2	: Front door satellite sensor LH
D12	W/2	: Front door speaker LH	D20	BR/16	: Door mirror remote control switch (With memory mirrors)

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< WIRING DIAGRAM >

FRONT DOOR RH HARNESS



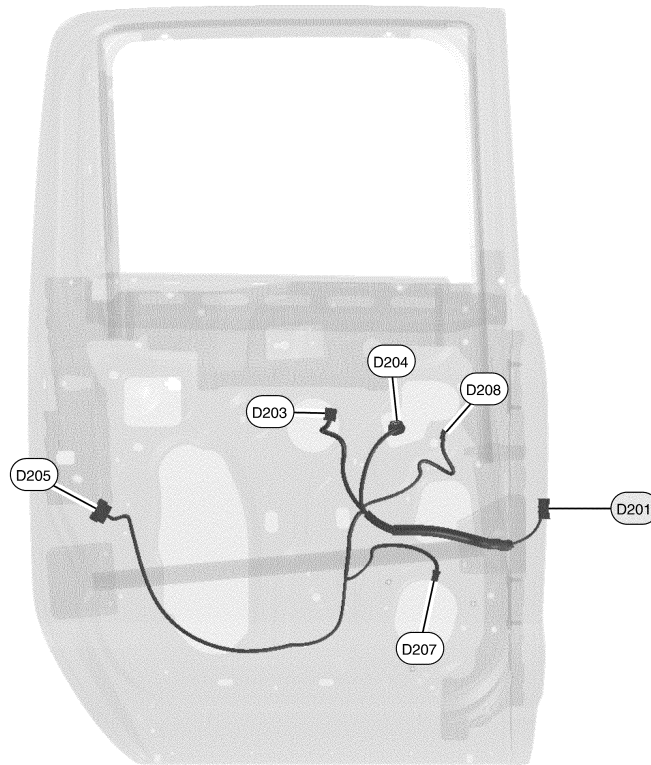
AAMIA0606ZZ

D101	W/10	: To M75	D108	Y/2	: Front door satellite sensor RH
D102	W/32	: To M74	D112	W/2	: Front door speaker RH
D103	Y/4	: To M5	D114	GR/6	: Front door lock actuator RH
D105	G/6	: Front power window motor RH	D116	B/4	: Front outside handle assembly RH
D107	W/24	: Door mirror RH	D129	W/12	: Power window and door lock/unlock switch RH

HARNESS

< WIRING DIAGRAM >

REAR DOOR LH HARNESS (CREW CAB MODELS)



AAMIA06072Z

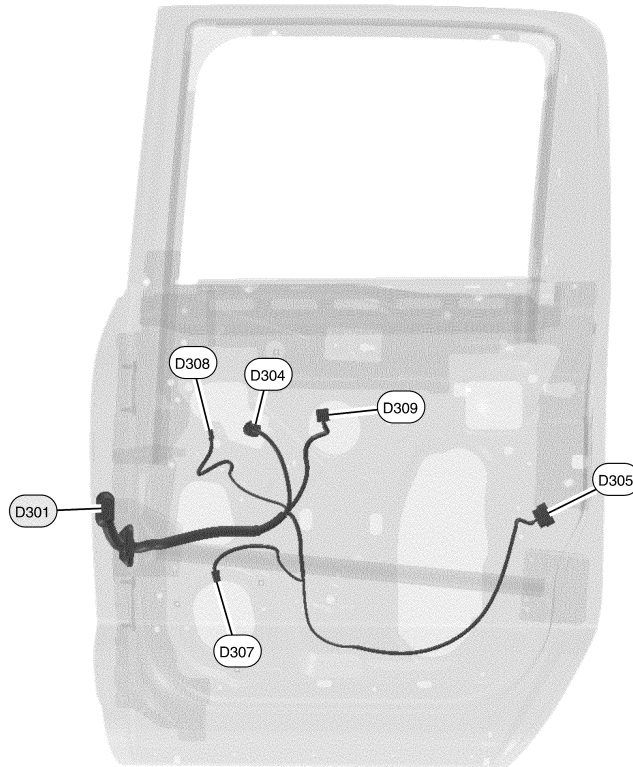
D201	W/18	: To B6	D205	GR/6	: Rear door lock actuator LH
D203	W/8	: Rear power window switch LH	D207	W/2	: Rear door speaker LH
D204	G/6	: Rear power window motor LH	D208	BR/2	: Rear door tweeter LH

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< WIRING DIAGRAM >

REAR DOOR RH HARNESS (CREW CAB MODELS)



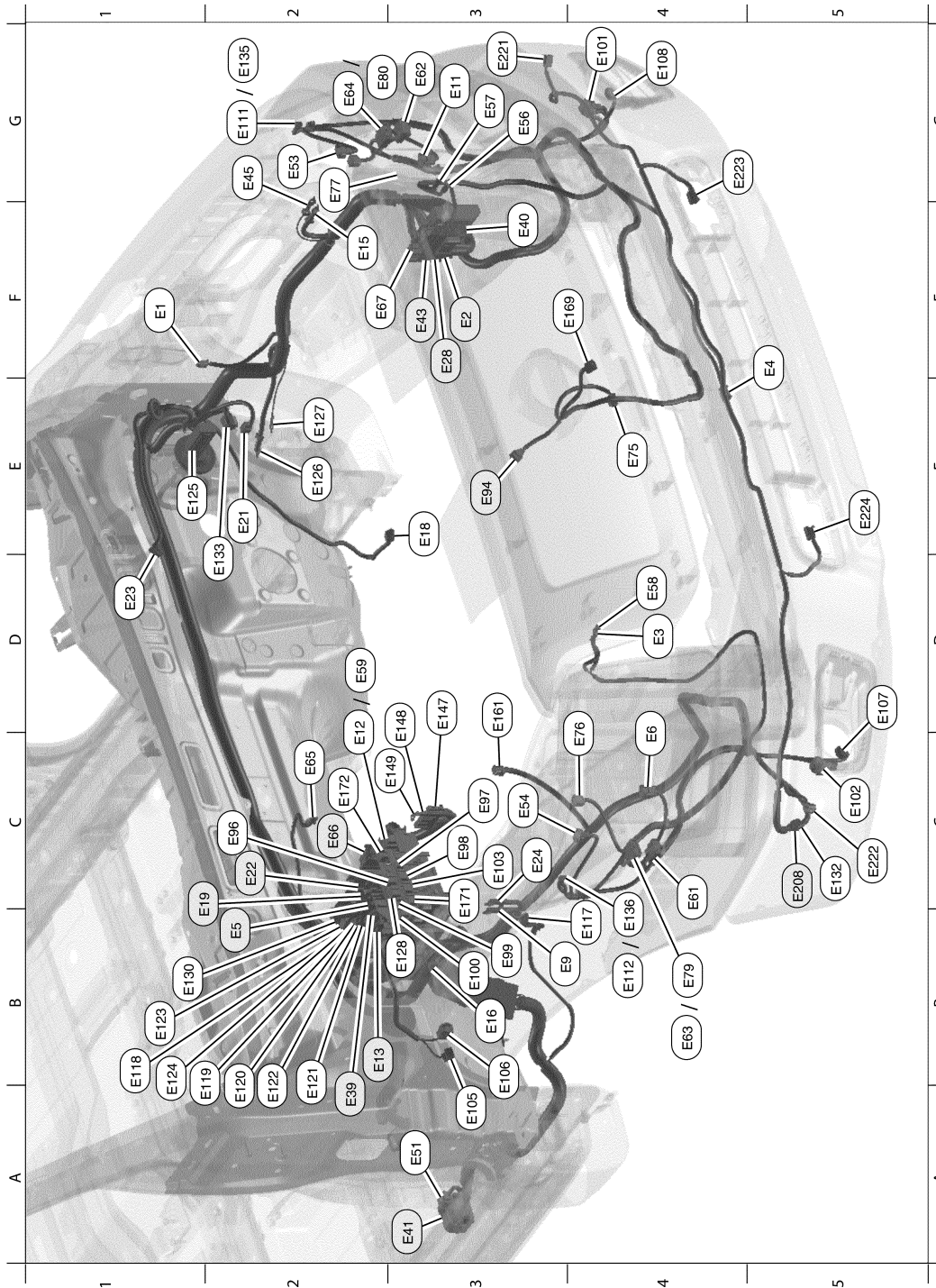
AAMIA0608ZZ

D301	W/18	: To B106	D307	W/2	: Rear door speaker RH
D304	G/6	: Rear power window motor RH	D308	BR/2	: Rear door tweeter RH
D305	GR/6	: Rear door lock actuator RH	D309	W/8	: Rear power window switch RH

HARNESS

< WIRING DIAGRAM >

ENGINE ROOM HARNESS (VK56VD)



AAMIA07192Z

F1	E1	BR/3	: Intelligent Key warning buzzer	C2	E96	L/4	: Trailer turn relay LH
F3	E2	GR/8	: To F32	C3	E97	L/4	: Trailer turn relay RH
D4	E3	B/1	: Horn (Right)	C3	E98	L/4	: TCM (Transmission control module) relay
F5	E4	Y/2	: Crash zone sensor	B3	E99	BR/6	: Trailer tow relay 2
B2	E5	W/24	: To F14	B3	E100	L/4	: VVEL actuator motor relay

HARNES

< WIRING DIAGRAM >

D4	E6	B/2	: Front combination lamp RH (With halogen headlamps)	G4	E101	B/2	: Front fog lamp assembly LH
B3	E9	—	: Body ground	C5	E102	B/2	: Front fog lamp assembly RH
G3	E11	B/2	: Front combination lamp LH (With halogen headlamps)	C3	E103	L/4	: Daytime running light relay
D2	E12	L/4	: Stop lamp relay	A3	E105	GR/2	: Front washer motor
B2	E13	B/2	: Fuse and fusible link box	B3	E106	GR/2	: Washer fluid level switch
F2	E15	—	: Body ground	D5	E107	GR/2	: Front fog lamp assembly RH
B3	E16	B/32	: ECM (With VK56VD)	G4	E108	GR/2	: Front fog lamp assembly LH
E3	E18	B/2	: Front wheel sensor LH	G2	E111	BR/2	: Front combination lamp LH (With halogen headlamps)
C1	E19	W/4	: To F33	B4	E112	BR/2	: Front combination lamp RH (With halogen headlamps)
E2	E21	B/2	: Brake fluid level switch	B4	E117	B/2	: Front wheel sensor RH
C2	E22	B/8	: To F10	B1	E118	B/2	: IPDM E/R (Intelligent power distribution module engine room)
D1	E23	GR/6	: Front wiper motor	B1	E119	W/16	: IPDM E/R (Intelligent power distribution module engine room)
C3	E24	—	: Body ground	A2	E120	W/6	: IPDM E/R (Intelligent power distribution module engine room)
F3	E28	B/8	: To F19	B2	E121	BR/12	: IPDM E/R (Intelligent power distribution module engine room)
A2	E39	GR/8	: To F34	A2	E122	W/12	: IPDM E/R (Intelligent power distribution module engine room)
F3	E40	B/3	: Refrigerant pressure sensor (With VK56VD)	B1	E123	BR/8	: IPDM E/R (Intelligent power distribution module engine room)
A3	E41	GR/52	: To C1	B1	E124	B/6	: IPDM E/R (Intelligent power distribution module engine room)
F3	E43	B/2	: To F24	E1	E125	B/46	: ABS actuator and electric unit (Control unit)
G2	E45	—	: Body ground	E2	E126	—	: Body ground
A3	E51	B/12	: To C20	E2	E127	—	: Body ground
G2	E53	B/2	: Front combination lamp LH (With halogen headlamps)	B3	E128	L/4	: Hill descent control relay
C3	E54	B/2	: Front combination lamp RH (With halogen headlamps)	B1	E130	B/10	: IPDM E/R (Intelligent power distribution module engine room)
G3	E56	B/1	: Horn (Left)	C5	E132	B/8	: To E208
G3	E57	B/1	: Horn (Left)	D2	E133	B/4	: ABS actuator and electric unit (Control unit)
D4	E58	B/1	: Horn (Right)	G2	E135	BR/2	: Front combination lamp LH (With LED headlamps)
D2	E59	L/4	: Inverter relay	B4	E136	BR/2	: Front combination lamp RH (With LED headlamps)
C4	E61	GR/16	: Front combination lamp RH (With LED headlamps)	D3	E147	BR/2	: Fusible link box (Battery) (With VK56VD)
G3	E62	GR/16	: Front combination lamp LH (With LED headlamps)	D3	E148	GR/2	: Fusible link box (Battery) (With VK56VD)
B4	E63	Y/3	: Front combination lamp RH (With halogen headlamps)	C3	E149	—	: Fusible link box (Battery) (With VK56VD)
G2	E64	Y/3	: Front combination lamp LH (With halogen headlamps)	D3	E161	GR/4	: Battery current sensor
C2	E65	GR/2	: Water valve	F4	E169	B/6	: Front camera

HARNESS

< WIRING DIAGRAM >

C2	E66	GR/6	: To F223	C3	E171	L/4	: Fuel injector relay	A
F2	E67	L/4	: Bulb check relay	C2	E172	BR/6	: High pressure fuel pump and injector relay	
E4	E75	B/2	: Ambient sensor	Front Sonar Sensor Sub-harness				B
D4	E76	B/3	: Front combination lamp RH (Headlamp aiming motor)	C5	E208	B/8	: To E132	
G2	E77	B/3	: Front combination lamp LH (Headlamp aiming motor)	G3	E221	B/3	: Front sonar sensor LH outer	C
B4	E79	Y/3	: Front combination lamp RH (With LED headlamps)	C5	E222	B/3	: Front sonar sensor RH outer	D
G2	E80	Y/3	: Front combination lamp LH (With LED headlamps)	G4	E223	B/3	: Front sonar sensor LH inner	
E3	E94	B/3	: Hood switch	E5	E224	B/3	: Front sonar sensor RH inner	E

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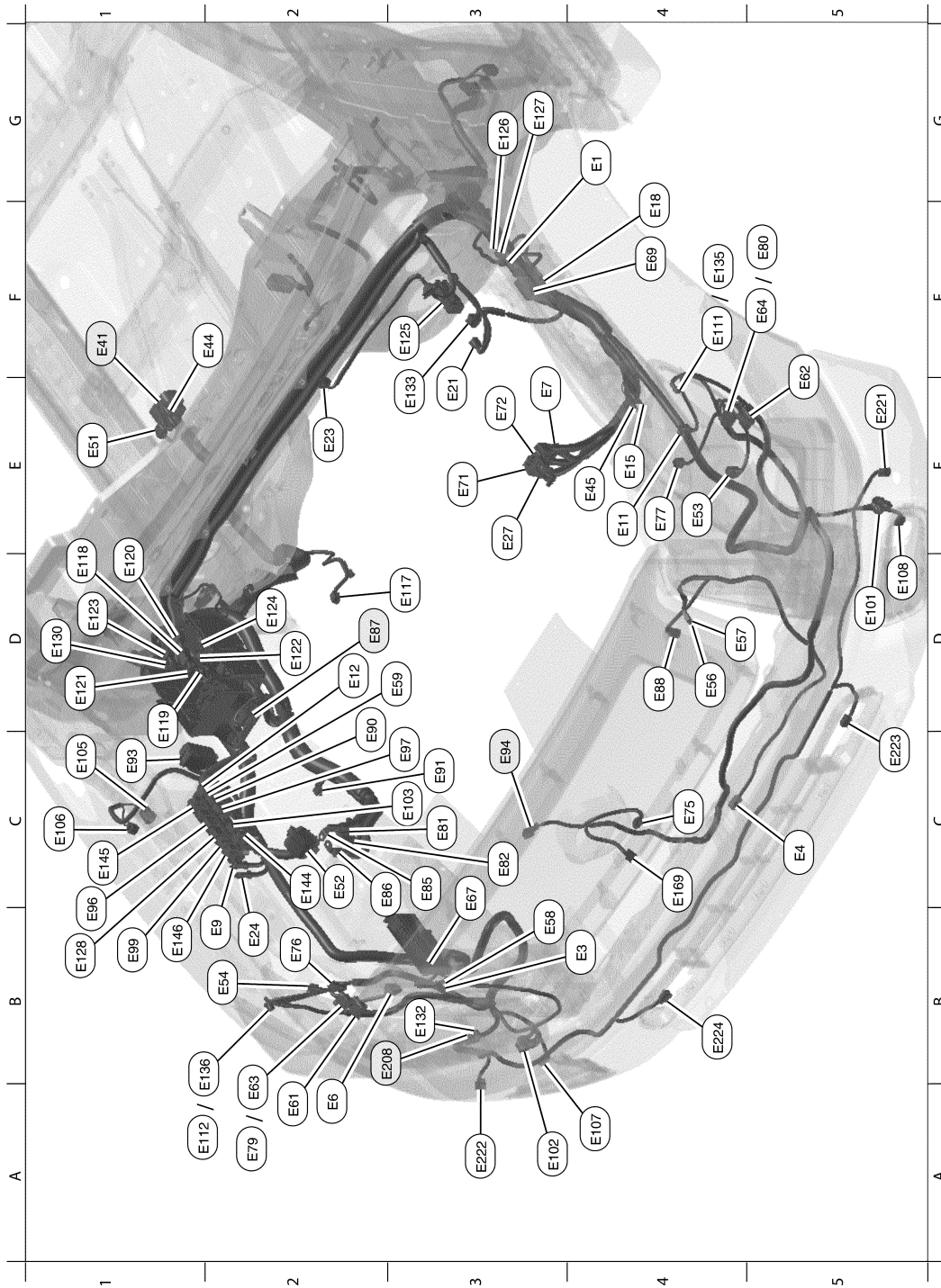
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HARNESS

< WIRING DIAGRAM >

ENGINE ROOM HARNESS (Cummins 5.0L)



AAMIA05962Z

G4	E1	BR/3	: Intelligent Key warning buzzer	D2	E90	L/4	: Urea heater relay
B4	E3	B/1	: Horn (Right)	C3	E91	B/3	: Coolant level sensor
C5	E4	Y/2	: Crash zone sensor	C1	E93	B/91	: ECM (With Cummins 5.0L)
A2	E6	B/2	: Front combination lamp RH (With halogen headlamps)	C3	E94	B/3	: Hood switch
E3	E7	GR/2	: Fusible link box LH (Battery)	C1	E96	L/4	: Trailer turn relay LH

HARNESS

< WIRING DIAGRAM >

B2	E9	—	: Body ground	C3	E97	L/4	: Trailer turn relay RH	A
E4	E11	B/2	: Front combination lamp LH (With halogen headlamps)	B1	E99	BR/6	: Trailer tow relay 2	B
D2	E12	L/4	: Stop lamp relay	D5	E101	B/2	: Front fog lamp assembly LH	C
E4	E15	—	: Body ground	A3	E102	B/2	: Front fog lamp assembly RH	D
F4	E18	B/2	: Front wheel sensor LH	C3	E103	L/4	: Daytime running light relay	E
E3	E21	B/2	: Brake fluid level switch	C1	E105	GR/2	: Front washer motor	F
E2	E23	GR/6	: Front wiper motor	C1	E106	GR/2	: Washer fluid level switch	G
B2	E24	—	: Body ground	A4	E107	GR/2	: Front fog lamp assembly RH	H
E3	E27	BR/2	: Fusible link box LH (Battery)	D5	E108	GR/2	: Front fog lamp assembly LH	I
F1	E41	GR/52	: To C1	F4	E111	BR/2	: Front combination lamp LH (With halogen headlamps)	J
F2	E44	GR/8	: To C19	A1	E112	BR/2	: Front combination lamp RH (With halogen headlamps)	K
E4	E45	—	: Body ground	D3	E117	B/2	: Front wheel sensor RH	L
E1	E51	B/12	: To C20	D1	E118	B/2	: IPDM E/R (Intelligent power distribution module engine room)	PG
C2	E52	GR/52	: To F209	D1	E119	W/16	: IPDM E/R (Intelligent power distribution module engine room)	N
E4	E53	B/2	: Front combination lamp LH (With halogen headlamps)	D1	E120	W/6	: IPDM E/R (Intelligent power distribution module engine room)	O
B2	E54	B/2	: Front combination lamp RH (With halogen headlamps)	D1	E121	BR/12	: IPDM E/R (Intelligent power distribution module engine room)	P
D4	E56	B/1	: Horn (Left)	D2	E122	W/12	: IPDM E/R (Intelligent power distribution module engine room)	
D4	E57	B/1	: Horn (Left)	D1	E123	BR/8	: IPDM E/R (Intelligent power distribution module engine room)	
B3	E58	B/1	: Horn (Right)	D2	E124	B/6	: IPDM E/R (Intelligent power distribution module engine room)	
D3	E59	L/4	: Inverter relay	F3	E125	B/46	: ABS actuator and electric unit (Control unit)	
A2	E61	GR/16	: Front combination lamp RH (With LED headlamps)	G3	E126	—	: Body ground	
F5	E62	GR/16	: Front combination lamp LH (With LED headlamps)	G3	E127	—	: Body ground	
A2	E63	Y/3	: Front combination lamp RH (With halogen headlamps)	B1	E128	L/4	: Hill descent control relay	
F5	E64	Y/3	: Front combination lamp LH (With halogen headlamps)	D1	E130	B/10	: IPDM E/R (Intelligent power distribution module engine room)	
C3	E67	L/4	: Bulb check relay	B3	E132	B/8	: To E208	
F4	E69	B/1	: Glow plug control module	E3	E133	B/4	: ABS actuator and electric unit (Control unit)	
E3	E71	—	: Fusible link box LH (Battery)	F4	E135	BR/2	: Front combination lamp LH (With LED headlamps)	
E3	E72	—	: Fusible link box LH (Battery)	B1	E136	BR/2	: Front combination lamp RH (With LED headlamps)	
C4	E75	B/2	: Ambient sensor	C2	E144	L/4	: PTC relay 1	
B2	E76	B/3	: Front combination lamp RH (Headlamp aiming motor)	C1	E145	L/4	: PTC relay 3	
E4	E77	B/3	: Front combination lamp LH (Headlamp aiming motor)	B1	E146	L/4	: PTC relay 2	

HARNESS

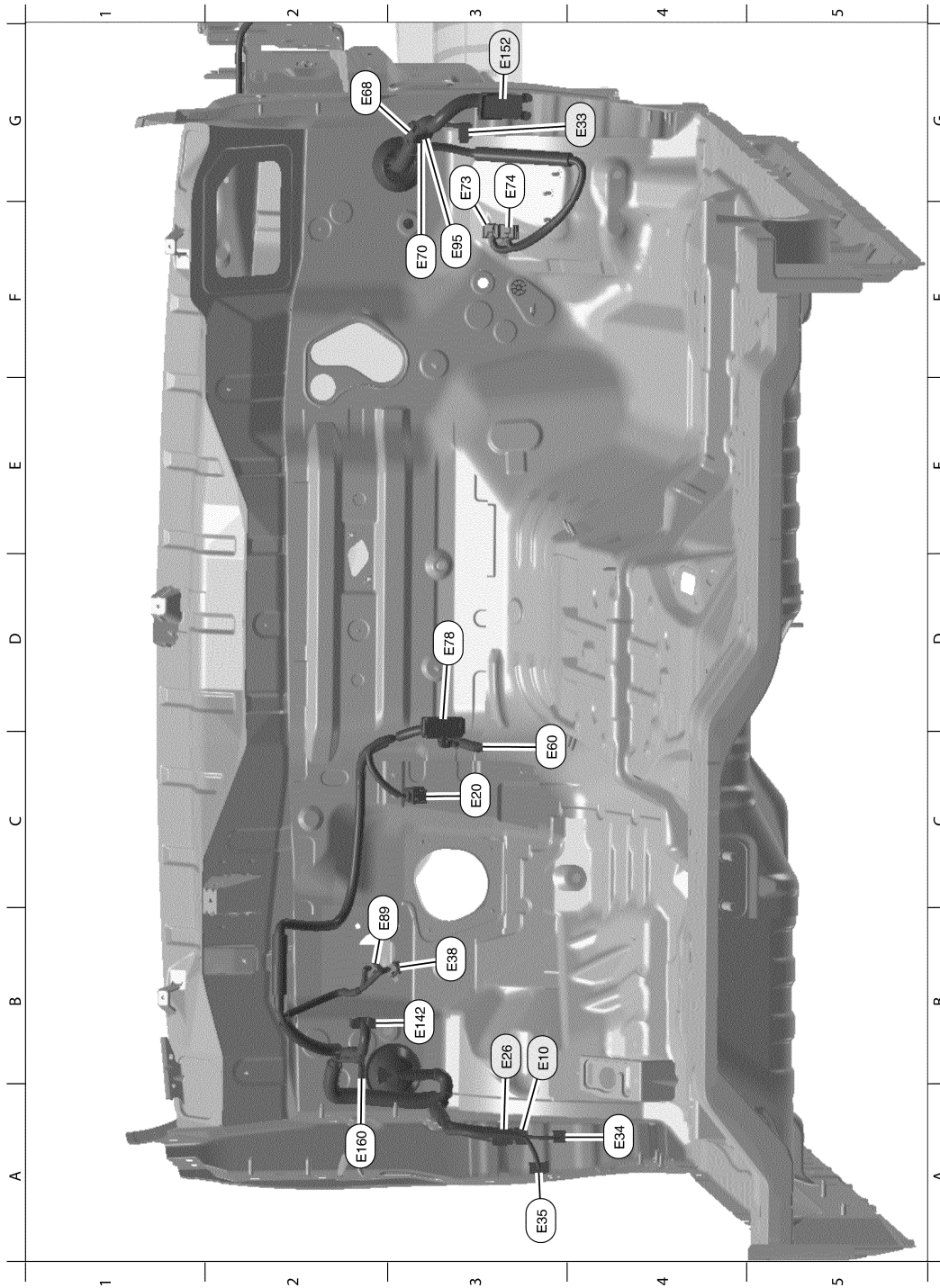
< WIRING DIAGRAM >

A2	E79	Y/3	: Front combination lamp RH (With LED headlamps)	C4	E169	B/6	: Front camera
F5	E80	Y/3	: Front combination lamp LH (With LED headlamps)	Front Sonar Sensor Sub-harness			
C3	E81	BR/2	: Fusible link box RH (Battery)	B2	E208	B/8	: To E132
C3	E82	GR/2	: Fusible link box RH (Battery)	E5	E221	B/3	: Front sonar sensor LH outer
C3	E85	—	: Fusible link box RH (Battery)	A3	E222	B/3	: Front sonar sensor RH outer
C2	E86	—	: Fusible link box RH (Battery)	C5	E223	B/3	: Front sonar sensor LH inner
D2	E87	B/6	: To F108	B4	E224	B/3	: Front sonar sensor RH inner
D4	E88	B/3	: Refrigerant pressure sensor				

HARNESS

< WIRING DIAGRAM >

ENGINE ROOM HARNESS (PASSENGER COMPARTMENT)



AAMIA07202Z

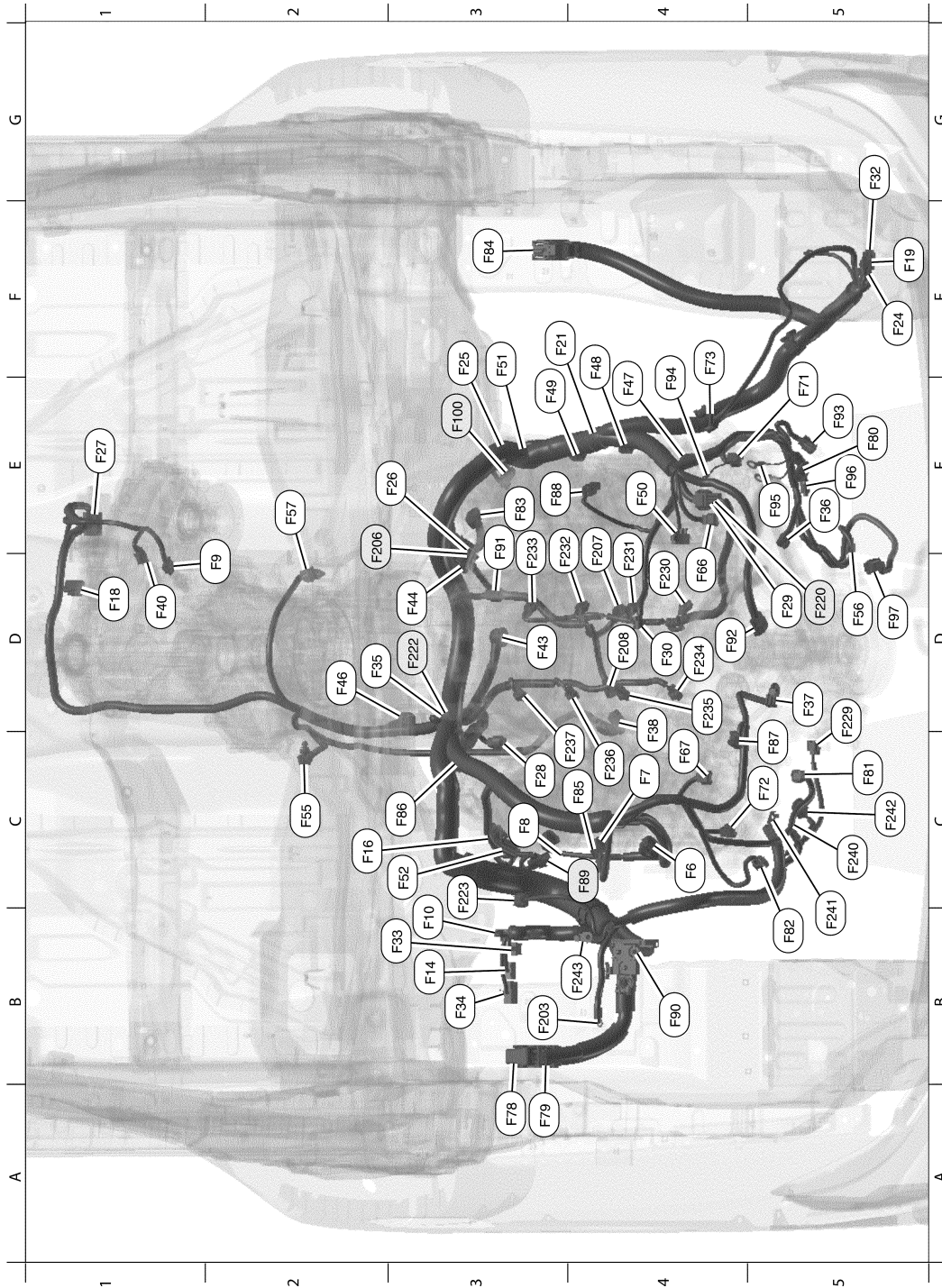
B3	E10	Y/4	: To M6	F3	E70	W/2	: Diode-3
C3	E20	B/6	: Accelerator pedal position (APP) sensor	G3	E73	W/35	: TCM (Transmission control module)
B3	E26	W/24	: To M91	G3	E74	W/35	: TCM (Transmission control module)
G4	E33	B/2	: To M66	D3	E78	B/5	: PTC heater
A4	E34	B/2	: To B34	B2	E89	BR/2	: ASCD cancel switch

HARNESS

< WIRING DIAGRAM >

A3	E35	W/12	: To B41	F3	E95	W/2	: Diode-4
B3	E38	W/4	: Stop lamp switch	B3	E142	W/26	: Transfer control unit
C3	E60	—	: Body ground	G3	E152	SMJ	: To M31
G2	E68	W/2	: Bulb check diode	A2	E160	B/1	: Parking brake switch

ENGINE CONTROL HARNESS (VK56VD)



AAMIA07212Z

HARNESS

< WIRING DIAGRAM >

C4	F6	GR/3	: Ignition coil no. 2 (With power transistor)	E5	F80	G/2	: Exhaust valve timing control solenoid valve (Bank 1)	A	
C4	F7	GR/3	: Ignition coil no. 4 (With power transistor)	C5	F81	G/2	: Exhaust valve timing control solenoid valve (Bank 2)	B	
C3	F8	GR/3	: Ignition coil no. 6 (With power transistor)	B5	F82	B/3	: Power steering pressure sensor		
D2	F9	B/3	: Range sensor (With VK56VD)	E3	F83	B/6	: VVEL control shaft position sensor (Bank 1)	C	
B3	F10	B/8	: To E22	F3	F84	B/26	: VVEL control module		
B3	F14	W/24	: To E5	C4	F85	B/2	: VVEL actuator motor (Bank 2)	D	
C2	F16	GR/4	: Air fuel ratio (A/F) sensor (Bank 2)	C3	F86	B/6	: VVEL control shaft position sensor (Bank 2)		
D1	F18	B/3	: Transfer rotary position sensor (With VK56VD)	C5	F87	GR/2	: High pressure fuel pump	E	
F5	F19	B/8	: To E28	E3	F88	B/2	: VVEL actuator motor (Bank 1)		
F3	F21	W/2	: Condenser	C4	F89	W/2	: Exhaust gas temperature sensor (Bank 2)	F	
F5	F24	B/2	: To E43	B4	F90	—	: Fusible link box (Battery) (With VK56VD)		
F3	F25	GR/4	: Air fuel ratio (A/F) sensor (Bank 1)	E3	F91	B/3	: Fuel rail pressure sensor	G	
E3	F26	B/4	: To F206	D4	F92	GR/5	: Multi-way control valve		
E1	F27	B/4	: Transfer motor (With VK56VD)	E5	F93	GR/2	: Engine coolant temperature sensor 2	H	
C3	F28	GR/2	: Engine coolant temperature sensor 1	E4	F94	—	: Engine ground		
D5	F29	B/8	: To F220	E5	F95	—	: Engine ground	I	
D4	F30	L/2	: EVAP canister purge volume control solenoid valve	E5	F96	B/1	: A/C compressor (With VK56VD)		
G5	F32	GR/8	: To E2	D5	F97	B/6	: Fan clutch assembly (With VK56VD)	J	
B3	F33	W/4	: To E19	E3	F100	W/2	: Exhaust gas temperature sensor (Bank 1)		
B3	F34	GR/8	: To E39	B3	F203	—	: Body ground	K	
D2	F35	B/8	: To F222	Knock sensor sub harness					
E5	F36	G/2	: Intake valve timing control solenoid valve (Bank 1)	E2	F206	B/4	: To F26	L	
D5	F37	G/2	: Intake valve timing control solenoid valve (Bank 2)	E4	F207	GR/2	: Knock sensor (Bank 1)		
D4	F38	B/3	: Crankshaft position sensor (POS)	D4	F208	GR/2	: Knock sensor (Bank 2)		
D1	F40	B/2	: Mode sensor (With VK56VD)	Injector sub harness LH					
D3	F43	—	: Starter motor (With VK56VD)	D5	F220	B/8	: To F29	PG	
D3	F44	GR/1	: Starter motor (With VK56VD)	D4	F230	GR/2	: Fuel injector no. 1		
D2	F46	G/10	: A/T assembly (With VK56VD)	E4	F231	GR/2	: Fuel injector no. 3	N	
E4	F47	GR/3	: Ignition coil no. 1 (With power transistor)	E3	F232	GR/2	: Fuel injector no. 5		
F4	F48	GR/3	: Ignition coil no. 3 (With power transistor)	E3	F233	GR/2	: Fuel injector no. 7	O	
E3	F49	GR/3	: Ignition coil no. 5 (With power transistor)	Injector sub harness RH					
E4	F50	B/6	: Electric throttle control actuator	D3	F222	B/8	: To F35	P	
F3	F51	GR/3	: Ignition coil no. 7 (With power transistor)	D4	F234	GR/2	: Fuel injector no. 2		
C3	F52	GR/3	: Ignition coil no. 8 (With power transistor)	D4	F235	GR/2	: Fuel injector no. 4		
C2	F55	B/2	: ATP switch	C4	F236	GR/2	: Fuel injector no. 6		

HARNES

< WIRING DIAGRAM >

D5	F56	GR/2	: Engine oil temperature sensor	C4	F237	GR/2	: Fuel injector no. 8
E2	F57	GR/4	: Heated oxygen sensor 2 (Bank 1) (Without diesel)	Engine control No. 2 harness - VK56VD			
D4	F66	B/3	: Camshaft position sensor (PHASE) (Bank 1)	C3	F223	GR/6	: To E66
C4	F67	B/3	: Camshaft position sensor (PHASE) (Bank 2)	D5	F229	B/3	: Engine oil pressure sensor
E5	F71	B/3	: Exhaust valve timing control position sensor (Bank 1)	C5	F240	—	: Generator (With VK56VD)
C5	F72	B/3	: Exhaust valve timing control position sensor (Bank 2)	B5	F241	—	: Generator (With VK56VD)
F4	F73	B/6	: Mass air flow sensor	C5	F242	B/3	: Generator (With VK56VD)
A3	F78	B/55	: ECM (With VK56VD)	B4	F243	—	: Fusible link box (Battery) (With VK56VD)
A3	F79	B/65	: ECM (With VK56VD)				

HARNESS

< WIRING DIAGRAM >

ENGINE CONTROL HARNESS (Cummins 5.0L)



AAMIA05982Z

A2	F101	B/105	: ECM (With Cummins 5.0L)	E3	F128	B/2	: Fuel temperature sensor
G2	F102	B/16	: Glow plug control module	E4	F129	B/2	: Fuel injector no.2
G2	F103	B/12	: Glow plug control module	D3	F130	B/1	: Glow plug no.2
F4	F104	B/4	: Mass air flow sensor	F3	F131	B/2	: Fuel injector no.4
F3	F105	GR/4	: Turbocharger compressor intake pressure/temperature sensor	D3	F132	B/1	: Glow plug no.4

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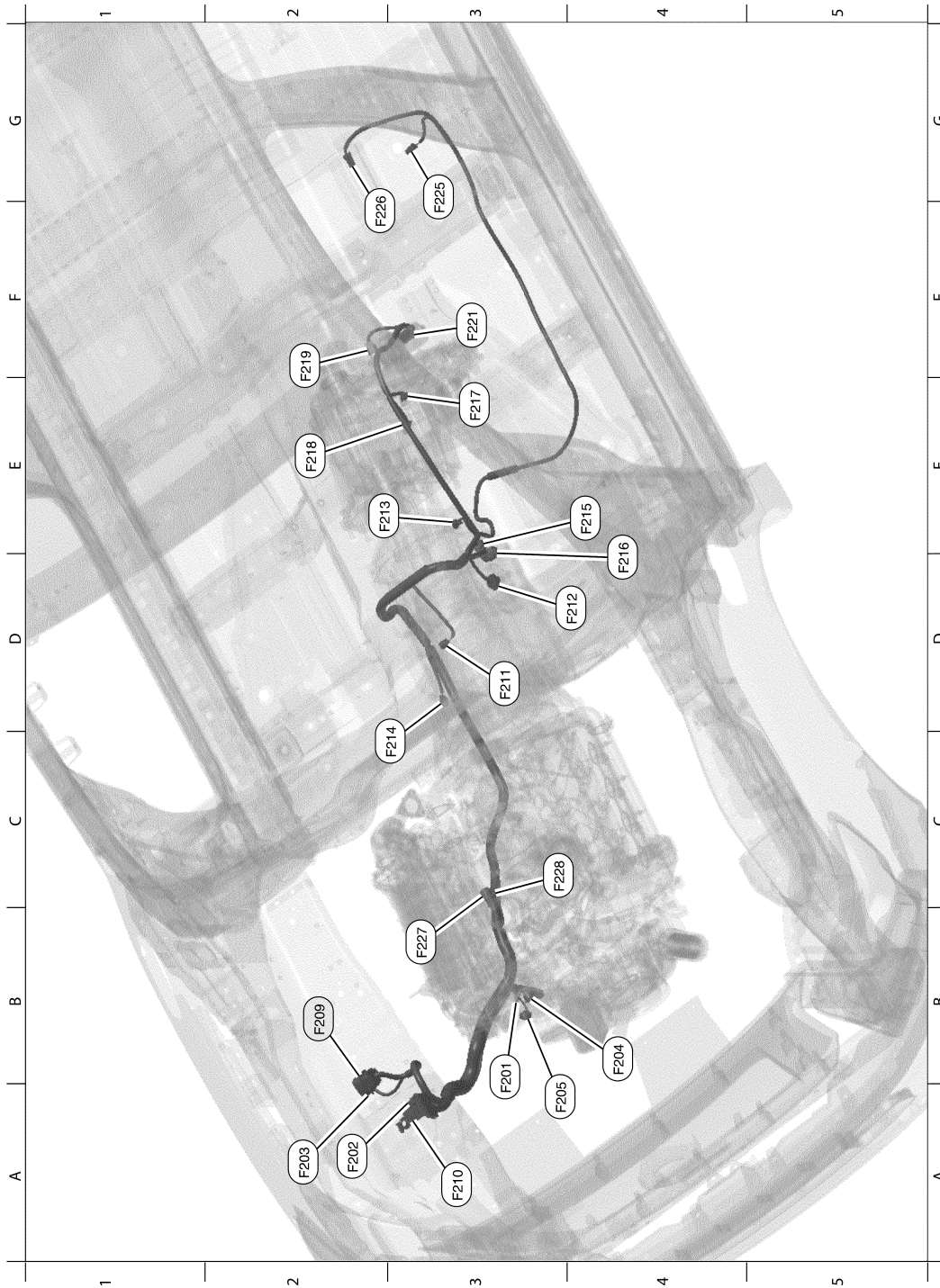
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D5	F106	B/6	: Fan clutch assembly (With Cummins 5.0L)	F2	F133	B/2	: Fuel injector no.6
B2	F107	GR/3	: Terminating resistor	E3	F134	B/1	: Glow plug no.6
B3	F108	B/6	: To E87	F2	F135	B/2	: Fuel injector no.8
B4	F109	B/3	: Camshaft position sensor	E2	F136	B/1	: Glow plug no.8
D5	F110	B/3	: Crankshaft position sensor	C4	F139	B/3	: Fuel rail pressure sensor
E5	F111	LG/2	: Oil pressure switch	D4	F140	B/4	: Engine charge air cooler outlet pressure/temperature sensor
C3	F113	B/2	: Fuel injector no.1	D4	F142	LG/2	: EGR temperature sensor
D3	F114	B/1	: Glow plug no.1	E4	F143	LG/2	: Intake manifold temperature sensor
C3	F115	B/2	: Fuel injector no.3	C2	F144	GR/5	: EGR valve
D3	F116	B/1	: Glow plug no.3	D3	F145	GR/5	: EGR bypass valve
C3	F117	B/2	: Fuel injector no.5	D3	F146	B/4	: Rotary turbine control valve actuator
D3	F118	B/1	: Glow plug no.5	E4	F150	B/1	: A/C compressor (With Cummins 5.0L)
C3	F119	B/2	: Fuel injector no.7	F4	F151	GR/3	: Crankcase pressure sensor
D3	F120	B/1	: Glow plug no.7	C5	F169	—	: Body ground
E2	F122	B/2	: Fuel pressure relief valve	B4	F190	GR/3	: Cummins data link connector
D3	F123	B/2	: Fuel pump actuator	E4	F197	GR/3	: Fuel pressure sensor
E5	F125	B/2	: Compressor bypass valve solenoid	D3	F198	GR/3	: Low pressure turbocharger boost pressure sensor
D4	F126	B/3	: Turbocharger speed sensor	D2	F199	GR/3	: Exhaust gas pressure sensor
C5	F127	B/2	: Coolant temperature sensor				

HARNESS

< WIRING DIAGRAM >

ENGINE CONTROL NO. 2 HARNESS (Cummins 5.0L)



AAMIA05992Z

B3	F201	—	: Generator	E4	F215	W/8	: A/T assembly
A2	F202	—	: Fusible link box RH (Battery)	D4	F216	B/12	: A/T assembly
A2	F203	—	: Body ground	E3	F217	B/2	: Mode sensor
B4	F204	—	: Generator	E2	F218	B/3	: Range sensor
A3	F205	B/3	: Generator	F2	F219	B/3	: Transfer rotary position sensor

HARNESS

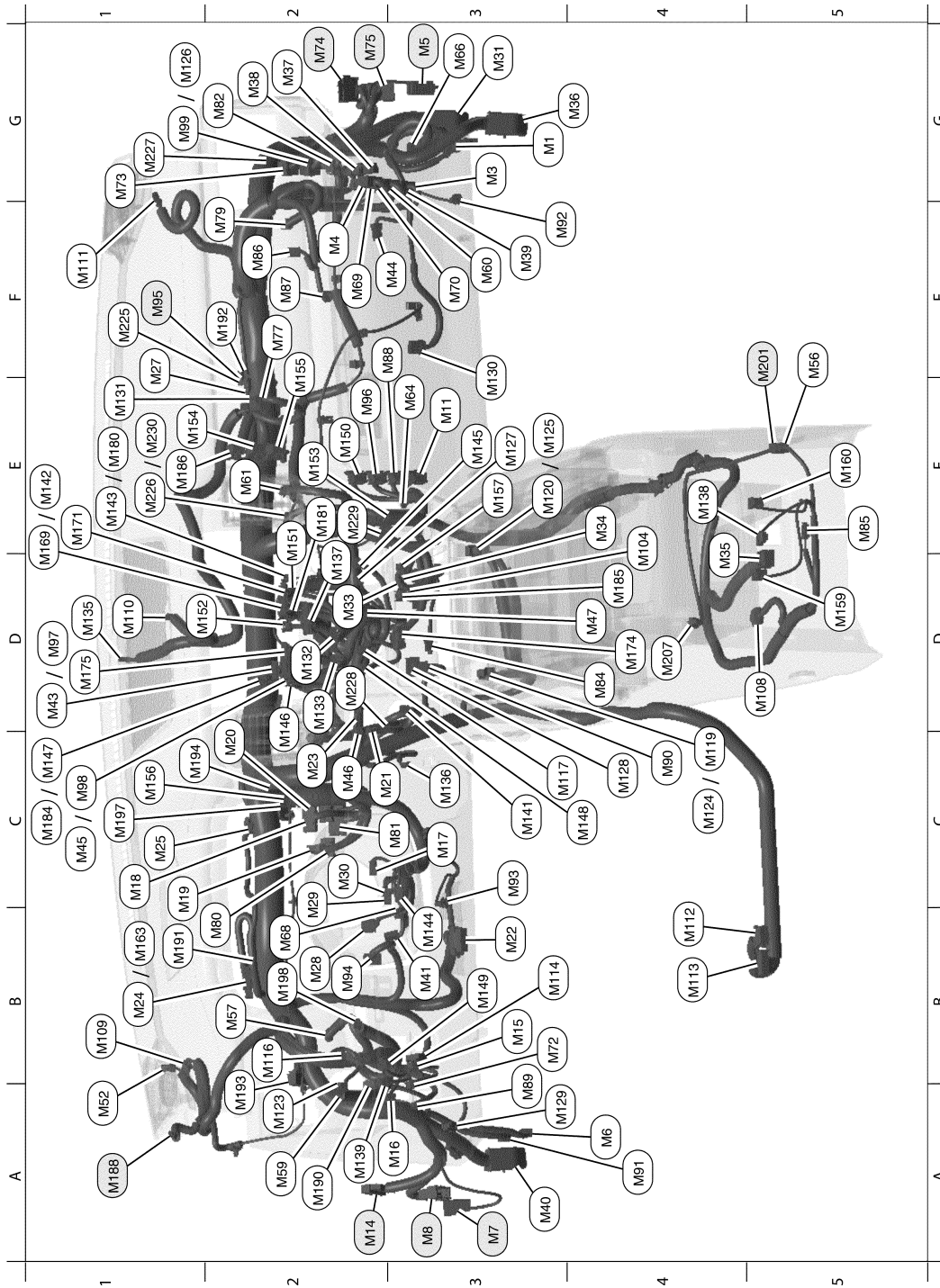
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B2	F209	GR/52	: To E52	F3	F221	B/4	: Transfer motor
A3	F210	—	: Fusible link box RH (Battery)	G3	F225	B/2	: Water in fuel sensor
D3	F211	L/2	: Input speed sensor	F2	F226	B/2	: Lift pump
D4	F212	B/9	: Transmission range switch	B3	F227	—	: Starter motor
E2	F213	L/2	: Output speed sensor	C3	F228	GR/1	: Starter motor
C3	F214	GR/2	: A/T fluid temperature sensor 1				

HARNESS

< WIRING DIAGRAM >

MAIN HARNESS



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G3	M1	W/32	: To R1	E4	M104	W/6	: Aux in jack
G3	M3	W/8	: Fuse block (J/B)	D5	M108	B/6	: Yaw rate/side/decel G sensor
F2	M4	W/16	: Fuse block (J/B)	B1	M109	BR/2	: Front tweeter LH
G3	M5	Y/4	: To D103	D1	M110	BR/2	: Center speaker

HARNESS

< WIRING DIAGRAM >

A4	M6	Y/4	: To E10	F1	M111	BR/2	: Front tweeter RH
A3	M7	Y/4	: To D17	B4	M112	W/8	: Audio amp.
A3	M8	W/16	: To D2	B4	M113	GR/24	: Audio amp.
E3	M11	L/4	: Heated steering relay	B3	M114	W/24	: Sonar control unit
A2	M14	W/40	: To D18	B2	M116	W/4	: Front sonar buzzer
B3	M15	GR/10	: Hill descent control switch	C3	M117	GR/8	: Sonar system off switch
A3	M16	W/8	: Front fog lamp switch	C4	M119	W/10	: Climate controlled seat switch LH
C3	M17	W/8	: Steering angle sensor	E3	M120	BR/8	: Climate controlled seat switch RH
C1	M18	G/40	: BCM (Body control module)	A2	M123	W/12	: Low tire pressure warning control unit
C1	M19	B/40	: BCM (Body control module)	D4	M124	W/6	: Front heated seat switch LH
C2	M20	GR/24	: BCM (Body control module)	E3	M125	BR/6	: Front heated seat switch RH
C2	M21	W/3	: NATS antenna amp.	G1	M126	BR/6	: Heated seat relay
B3	M22	W/16	: Data link connector	E3	M127	W/8	: Warning system switch
C2	M23	B/2	: Diode-2	C4	M128	W/24	: ADAS control unit
B1	M24	W/40	: Combination meter (With type A)	A3	M129	BR/4	: Warning buzzer
C1	M25	W/12	: Combination meter (With type A)	F3	M130	W/3	: Variable blower control
F1	M27	W/4	: Dongle unit	E1	M131	W/11	: PTC heater control
B2	M28	W/14	: Combination switch	D2	M132	W/32	: Front air control
C2	M29	Y/6	: Combination switch (Spiral cable)	D2	M133	W/6	: A/C switch assembly
C2	M30	GR/8	: Combination switch (Spiral cable)	D1	M135	B/2	: Sunload sensor
G3	M31	SMJ	: To E152	C3	M136	W/2	: In-vehicle sensor
D2	M33	W/24	: Automatic drive positioner control unit	D2	M137	W/40	: A/C auto amp.
E4	M34	W/6	: Automatic drive positioner control unit	E4	M138	W/4	: A/C 120V outlet (Console)
E4	M35	Y/18	: Air bag diagnosis sensor unit	A2	M139	W/12	: A/C 120V outlet main switch
G4	M36	SMJ	: To B149	C3	M141	W/8	: 4WD shift switch
G2	M37	W/1	: Fuse block (J/B)	E1	M142	W/8	: AV control unit (With audio amplifier)
G2	M38	W/1	: Fuse block (J/B)	E1	M143	B/6	: AV control unit
F3	M39	W/8	: Fuse block (J/B)	B3	M144	W/2	: Combination switch (Spiral cable)
A3	M40	SMJ	: To B69	E3	M145	L/6	: Heated steering wheel switch
B3	M41	GR/6	: ADP steering switch	D2	M146	GR/5	: AV control unit
D1	M43	W/20	: AV control unit (With audio amplifier)	C1	M147	P/2	: AV control unit
F3	M44	W/2	: Front blower motor	C4	M148	B/8	: VDC off switch
C1	M45	W/24	: AV control unit (With audio amplifier)	B3	M149	W/6	: Cargo lamp switch
C2	M46	W/6	: Push-button ignition switch	E2	M150	L/4	: Cargo lamp relay
D4	M47	W/4	: Hazard switch	E2	M151	L/2	: AV control unit
B1	M52	W/3	: Optical sensor	D1	M152	G/6	: AV control unit (With audio amplifier)
F5	M56	W/2	: To M201	E2	M153	GR/2	: Power socket 2
B2	M57	—	: Body ground	E1	M154	B/5	: Rear power slide glass close relay
A2	M59	G/8	: Lighting switch	F2	M155	B/5	: Rear power slide glass open relay
F3	M60	W/6	: Fuse block (J/B)	C1	M156	G/6	: TCU
E2	M61	—	: Body ground	E3	M157	GR/2	: Power socket 1
E3	M64	W/2	: Intake sensor	D5	M159	W/6	: Rear heated seat switch LH
G3	M66	B/2	: To E33	E5	M160	BR/6	: Rear heated seat switch RH
B2	M68	W/8	: A/T shift selector	B1	M163	W/40	: Combination meter (With type B)
F2	M69	W/10	: Fuse block (J/B)	E1	M169	W/8	: Audio unit

HARNESS

< WIRING DIAGRAM >

F3	M70	BR/16	: Fuse block (J/B)	E1	M171	W/20	: Audio unit	A
B3	M72	B/8	: Differential lock mode switch	D4	M174	W/7	: Trailer brake control unit	B
G1	M73	BR/6	: Back-up lamp relay	D1	M175	W/32	: Audio unit	B
G2	M74	W/32	: To D102	E1	M180	B/6	: Audio unit	C
G2	M75	W/10	: To D101	E2	M181	GR/5	: Audio unit	D
F2	M77	Y/4	: To M103	C1	M184	P/2	: Audio unit	E
F2	M79	—	: Body ground	D4	M185	B/6	: USB interface	F
B2	M80	B/24	: BCM (Body control module)	E1	M186	L/4	: Console power socket relay	G
C3	M81	W/15	: BCM (Body control module)	A1	M188	P/2	: To R108	H
G2	M82	W/2	: Circuit breaker-1	A2	M190	W/5	: Electric brake (Pre-wiring)	I
D4	M84	GR/2	: Inside key antenna (Instrument center)	B1	M191	W/24	: Joint connector-M01	J
E5	M85	GR/2	: Inside key antenna (Console)	F2	M192	W/24	: Joint connector-M02	K
F2	M86	B/4	: Remote keyless entry receiver	A2	M193	W/24	: Joint connector-M03	L
F2	M87	BR/2	: Glove box lamp	C1	M194	W/24	: Joint connector-M04	
F2	M88	L/4	: Accessory relay-2	C1	M197	B/40	: TCU	
A3	M89	W/4	: Headlamp aiming switch	B2	M198	W/8	: Meter control switch	
C4	M90	W/12	: CAN gateway	Console Sub-harness				
A4	M91	W/24	: To E26	F5	M201	W/2	: To M56	
F3	M92	BR/2	: Front foot lamp RH	D4	M207	GR/2	: Console power socket	
C3	M93	BR/2	: Front foot lamp LH	HVAC Sub-harness				
B2	M94	W/10	: Tilt and telescopic motor	F1	M225	W/3	: To M95	
F1	M95	W/3	: To M225	E1	M226	W/3	: Mode door motor	
E2	M96	L/5	: Trailer tow relay 1	G1	M227	W/3	: Intake door motor	
D1	M97	W/20	: AV control unit (Without audio amplifier)	D2	M228	W/3	: Air mix door motor LH	
C1	M98	W/24	: AV control unit (Without audio amplifier)	E2	M229	W/3	: Air mix door motor RH	
G1	M99	BR/6	: Climate controlled seat relay	E1	M230	W/3	: Air mix door motor	

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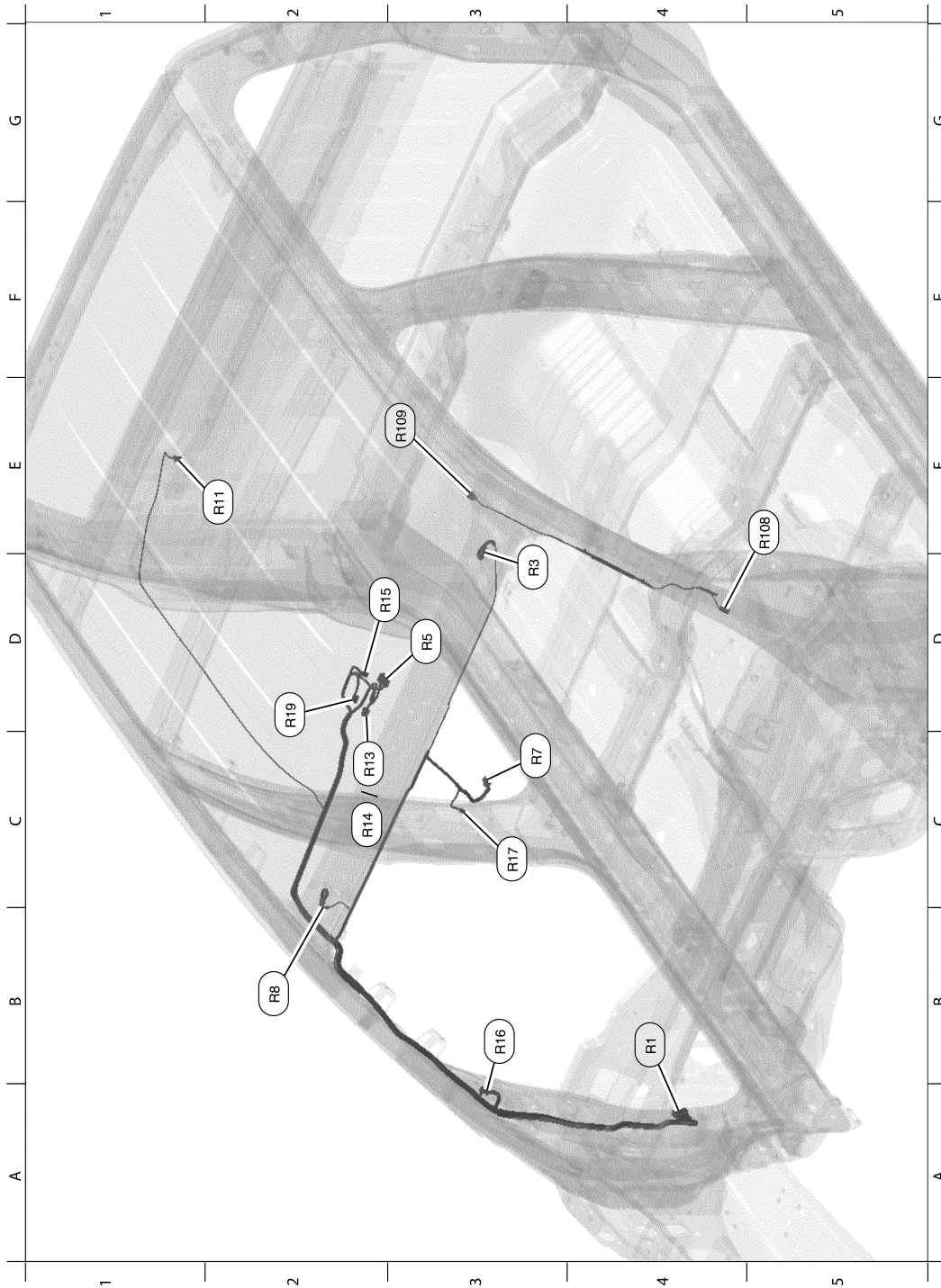
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< WIRING DIAGRAM >

ROOM LAMP HARNESS



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B4	R1	W/32	: To M1	D2	R15	W/8	: Telematics switch
D3	R3	W/2	: Vanity lamp LH	B3	R16	BR/2	: Front pillar speaker RH
D3	R5	W/4	: Microphone	C3	R17	B/3	: Rain sensor
C3	R7	B/10	: Auto anti-dazzling inside mirror	D2	R19	W/6	: Rear power slide glass switch
B2	R8	W/2	: Vanity lamp RH	Roof Antenna Harness			

HARNESS

< WIRING DIAGRAM >

E2	R11	W/3	: Personal lamp	E5	R108	P/2	: To M188
C2	R13	W/12	: Front room/map lamp assembly (With front roof console)	E3	R109	G/2	: Satellite antenna
C2	R14	W/3	: Front room/map lamp assembly (Without front roof console)				

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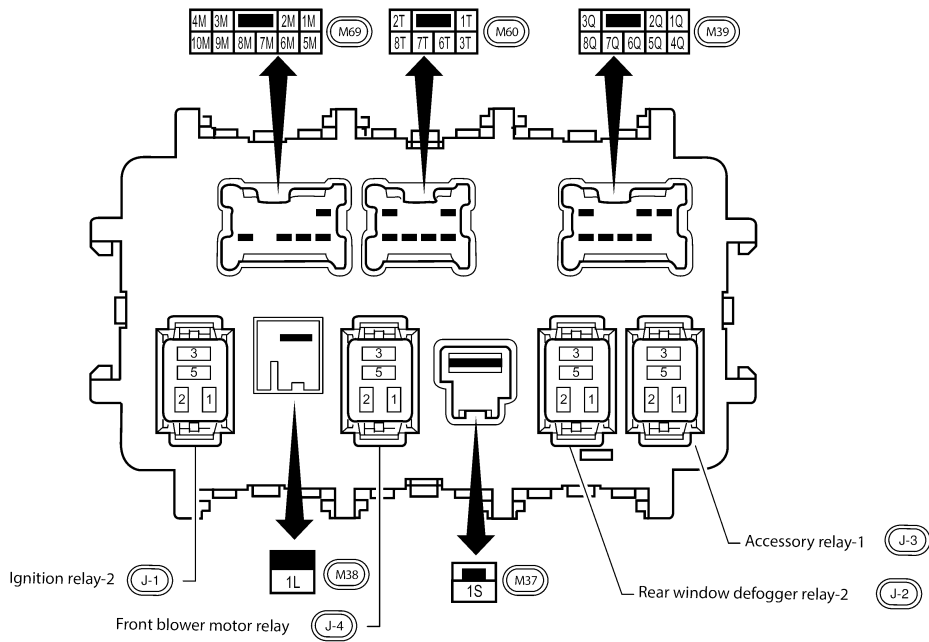
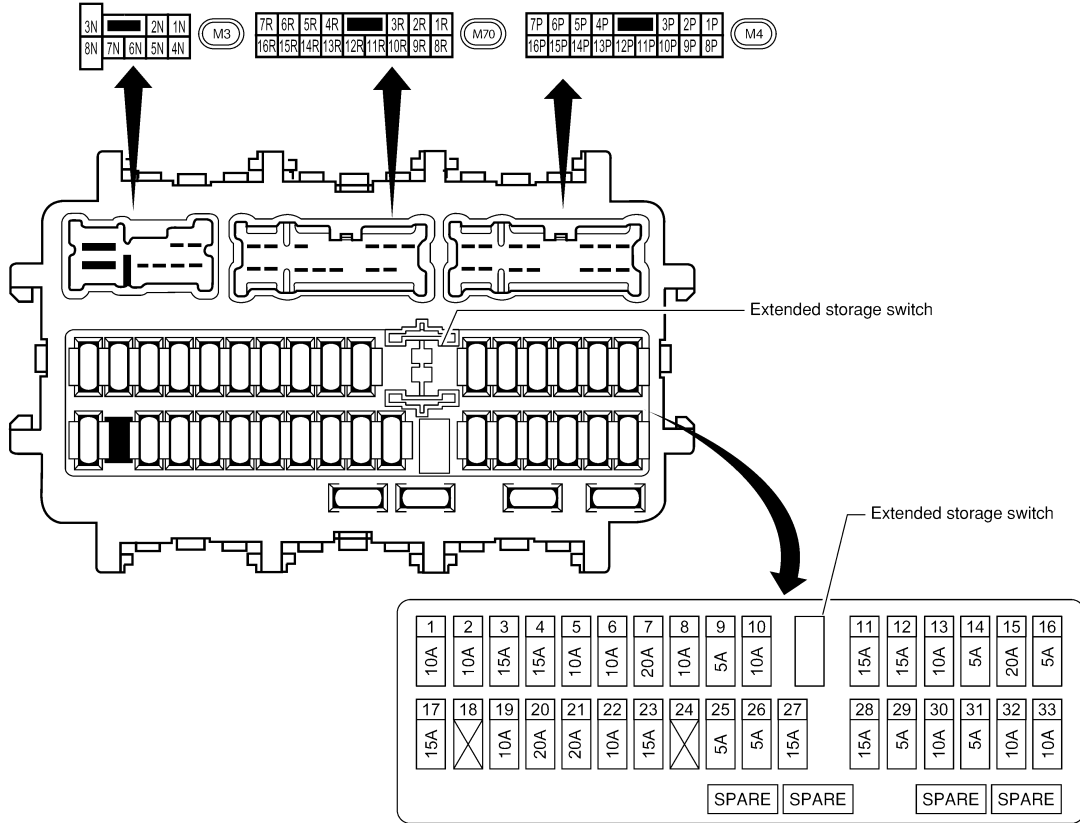
FUSE BLOCK - JUNCTION BOX (J/B)

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FUSE BLOCK - JUNCTION BOX (J/B)

Terminal Arrangement

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FUSE, FUSIBLE LINK AND RELAY BOX

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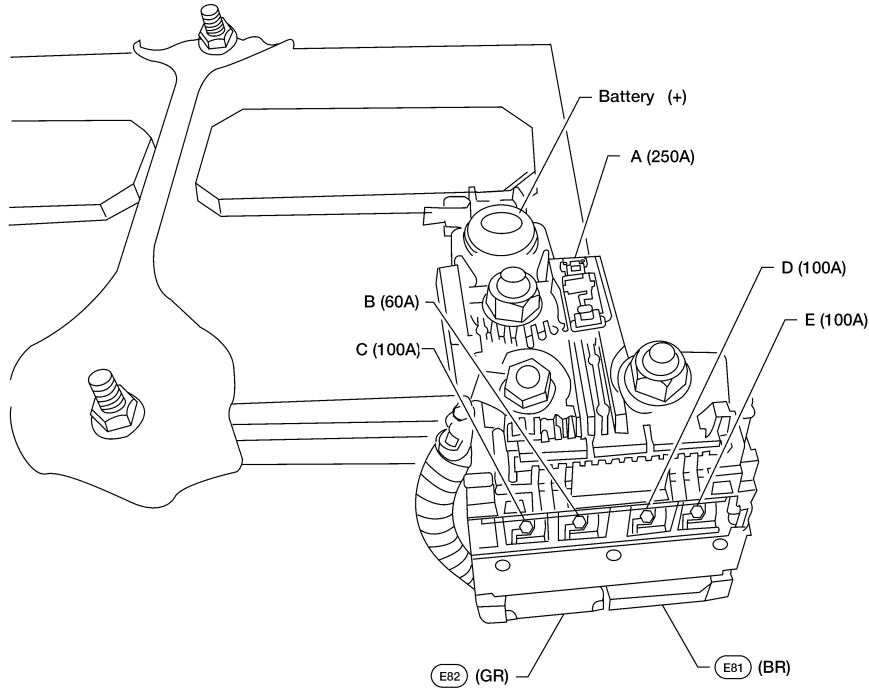
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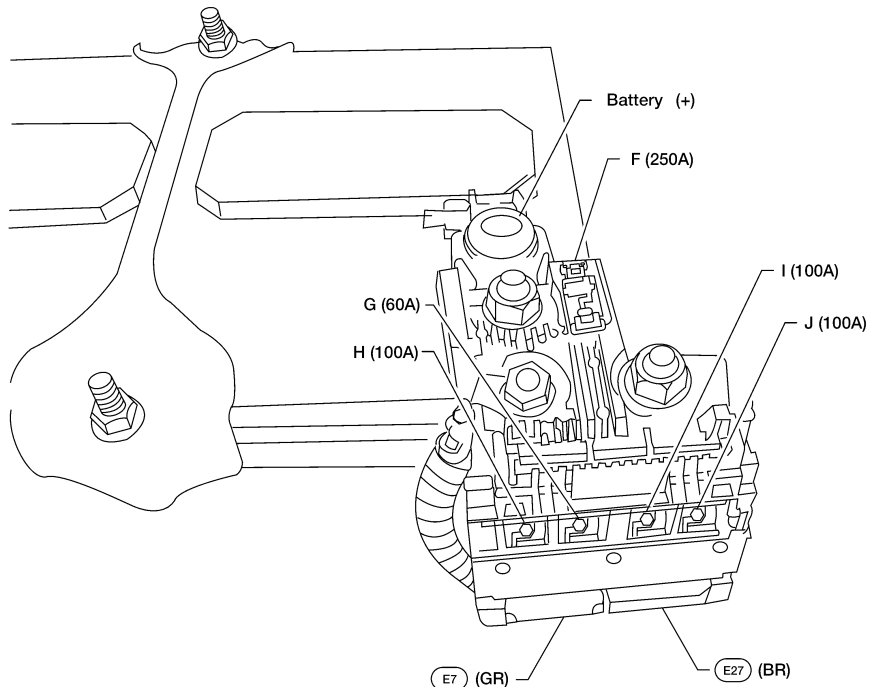
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FUSE, FUSIBLE LINK AND RELAY BOX

FUSIBLE LINK BOX RH (BATTERY) (WITH Cummins 5.0L)



FUSIBLE LINK BOX LH (BATTERY) (WITH Cummins 5.0L)



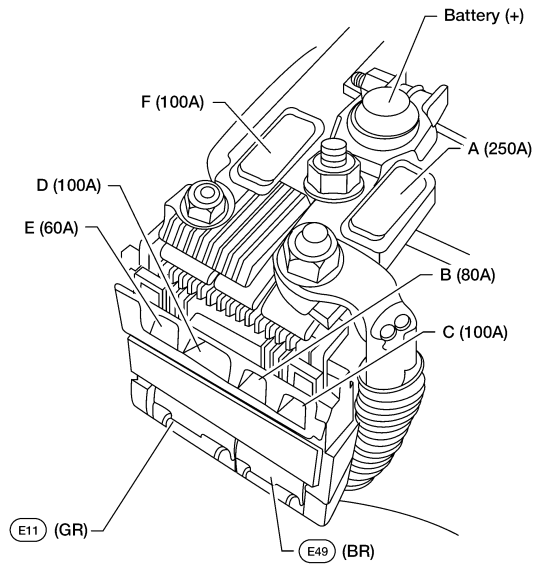
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FUSE, FUSIBLE LINK AND RELAY BOX

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FUSIBLE LINK BOX (BATTERY) (WITH VK56VD)



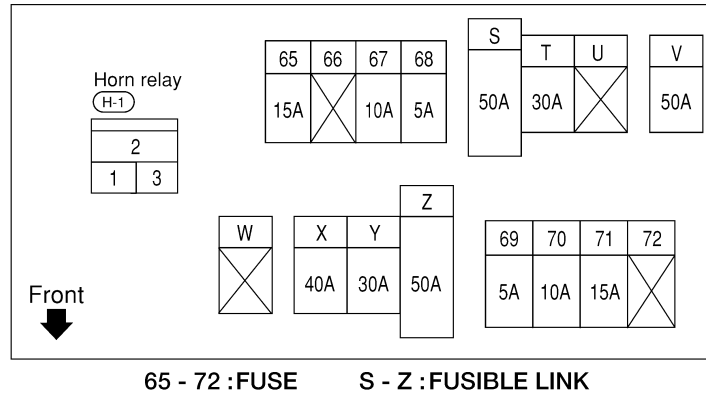
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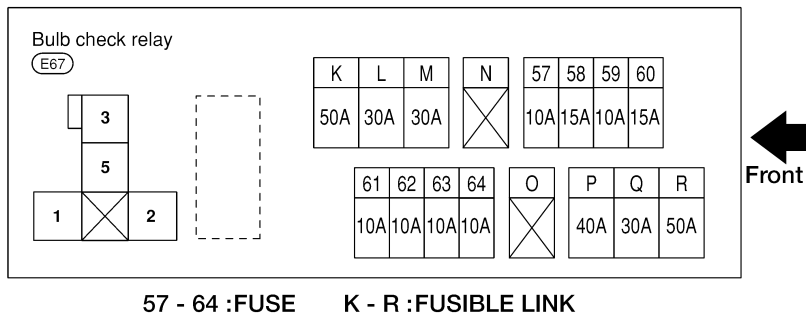
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FUSE, FUSIBLE LINK AND RELAY BOX 1 (WITH Cummins 5.0L)



FUSE, FUSIBLE LINK AND RELAY BOX 2 (WITH Cummins 5.0L)



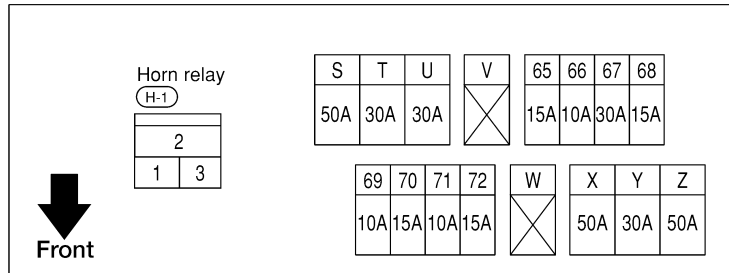
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FUSE, FUSIBLE LINK AND RELAY BOX

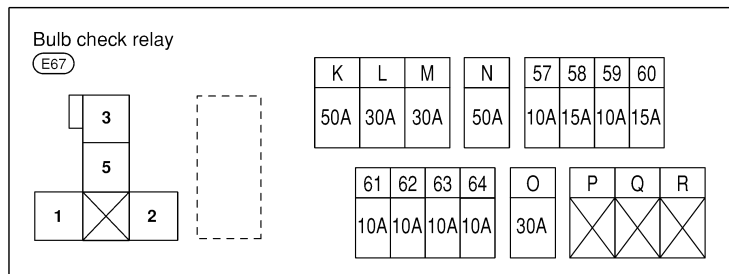
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FUSE, FUSIBLE LINK AND RELAY BOX 1 (WITH VK56VD)



65 - 72 : FUSE S - Z : FUSIBLE LINK

FUSE, FUSIBLE LINK AND RELAY BOX 2 (WITH VK56VD)



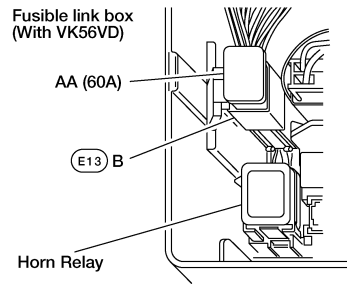
57 - 64 : FUSE K - R : FUSIBLE LINK

AAMIA4402GB

FUSE, FUSIBLE LINK AND RELAY BOX

< WIRING DIAGRAM >

FUSIBLE LINK BOX (WITH VK56VD)



AAMIA4403GB

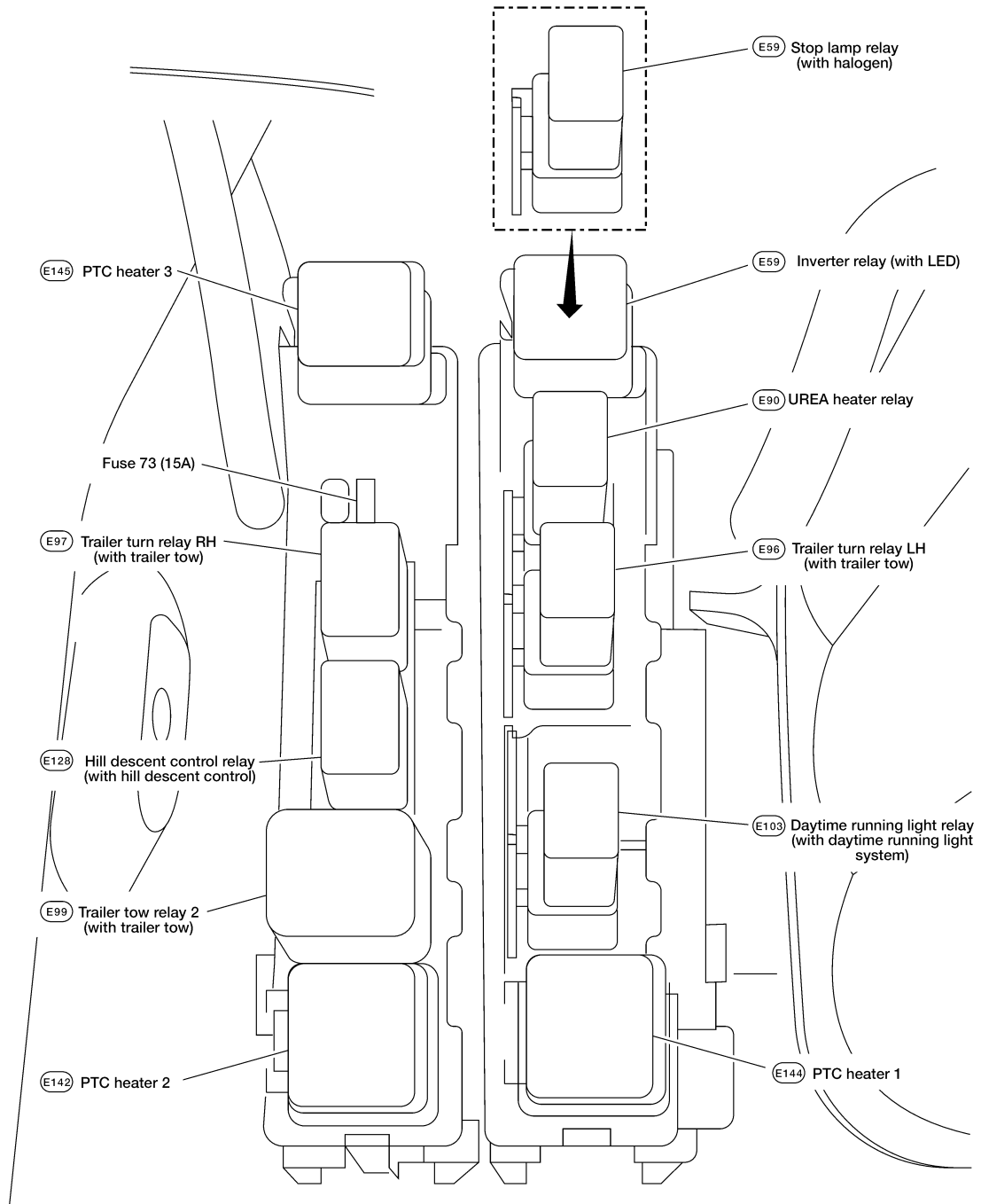
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FUSE, FUSIBLE LINK AND RELAY BOX

< WIRING DIAGRAM >

FUSE AND RELAY BOX (WITH Cummins 5.0L)

(WITH Cummins 5.0L)

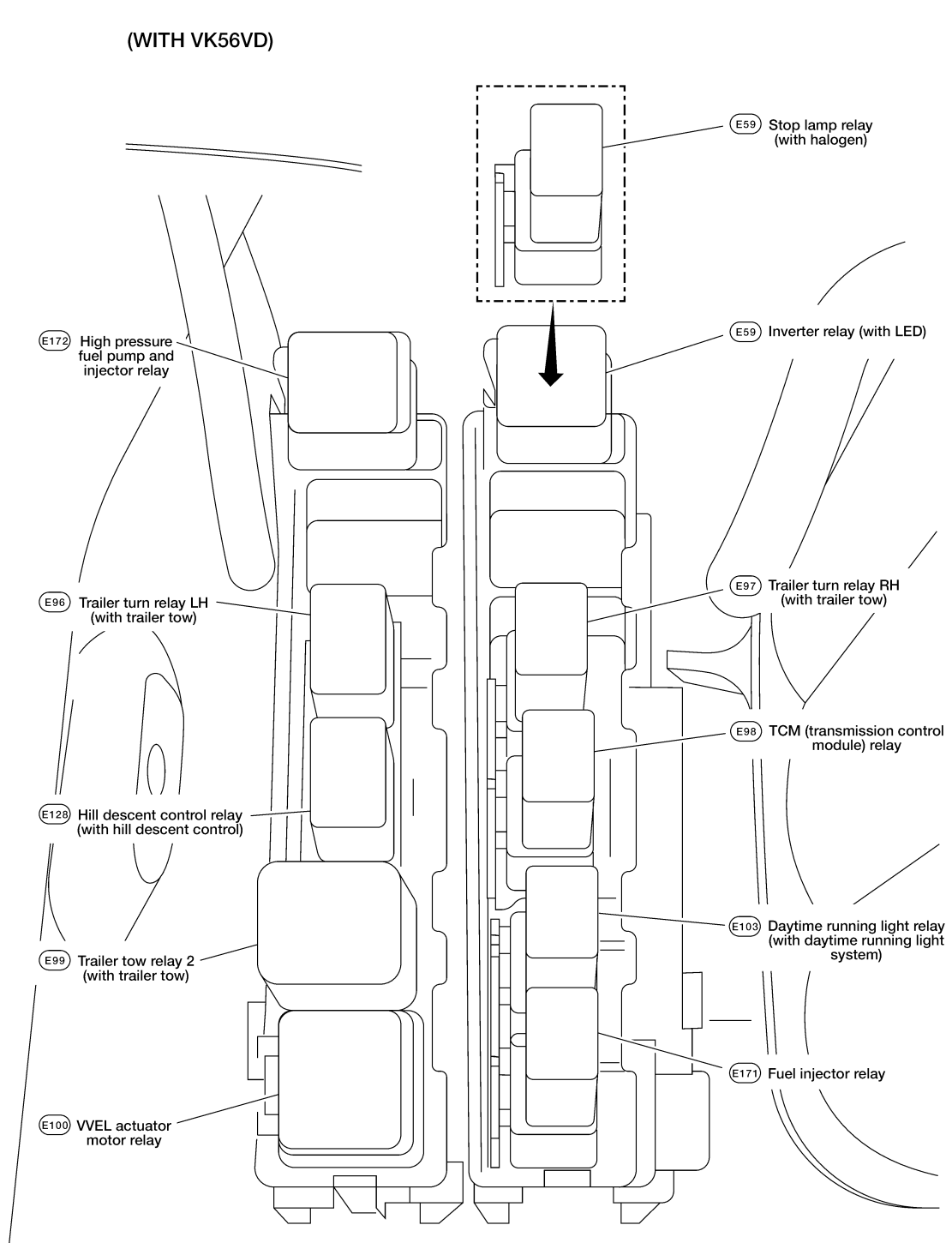


AAMIA4404GB

FUSE, FUSIBLE LINK AND RELAY BOX

< WIRING DIAGRAM >

RELAY BOX (WITH VK56VD)



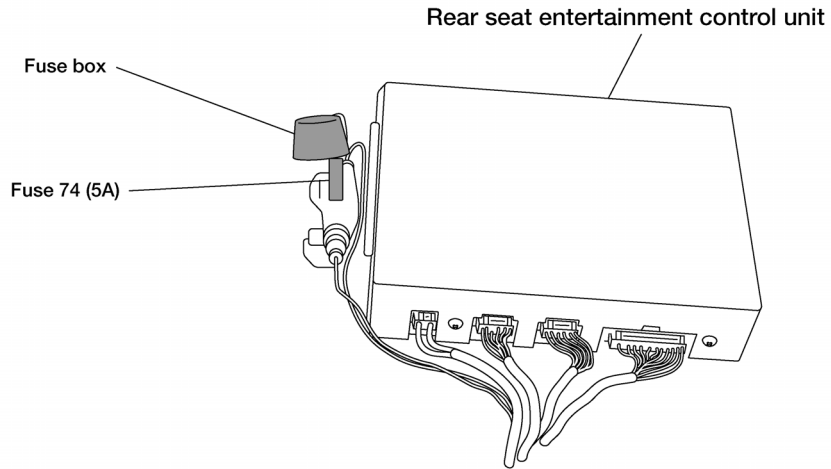
AAMIA4405GB

FUSE, FUSIBLE LINK AND RELAY BOX

< WIRING DIAGRAM >

FUSE BOX

Removed from under passenger seat



AAMIA4406GB

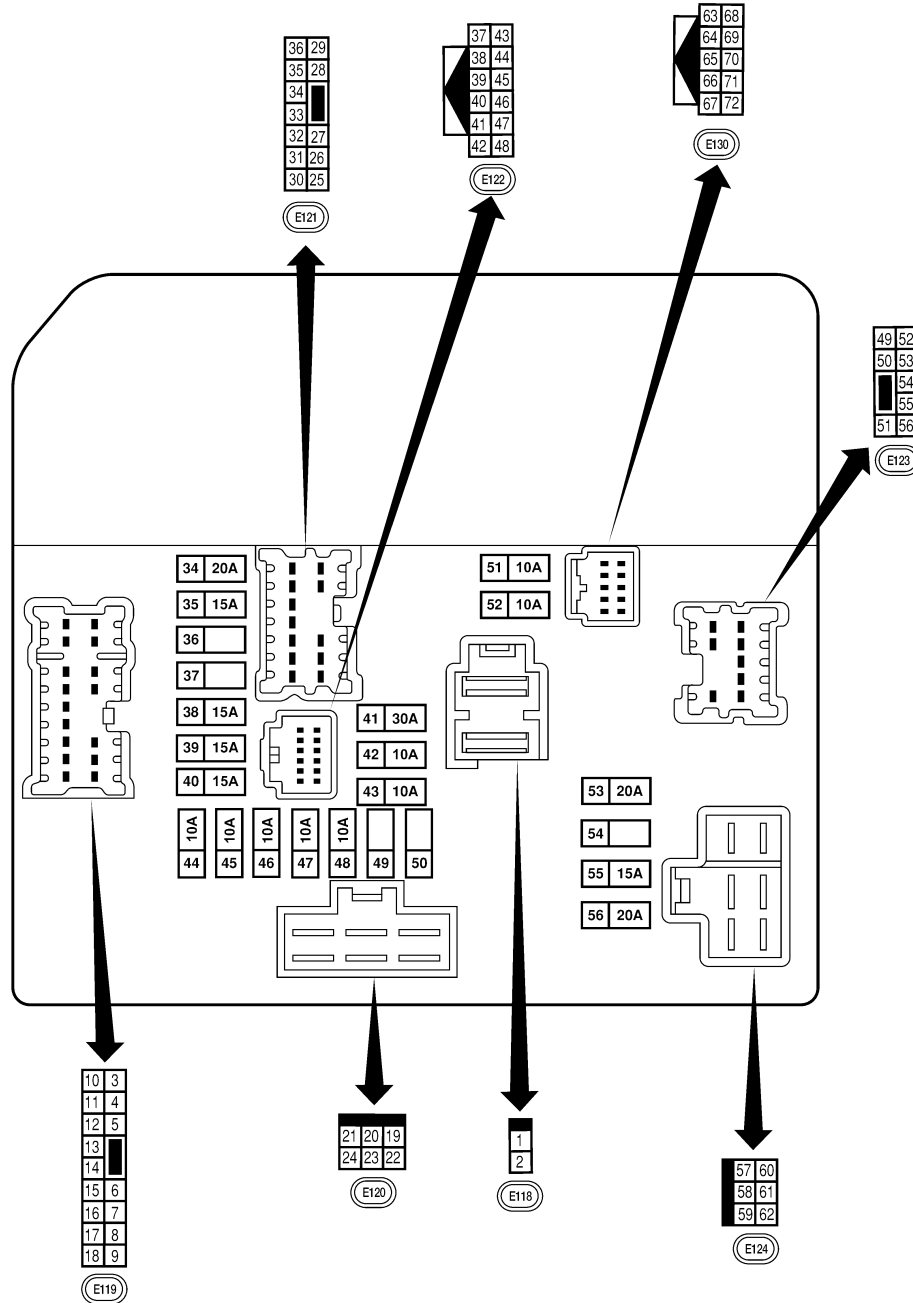
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

< WIRING DIAGRAM >

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

IPDM E/R Terminal Arrangement

INFOID:000000012546685



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BATTERY

< BASIC INSPECTION >

BASIC INSPECTION

BATTERY

How to Handle Battery

INFOID:000000012546686

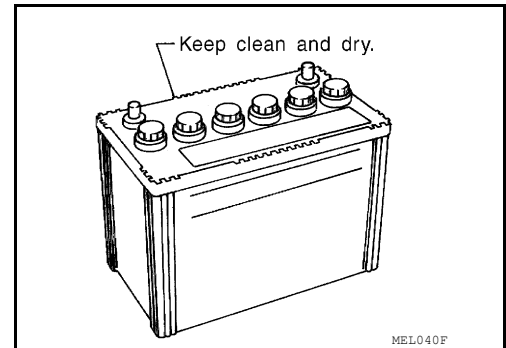
CAUTION:

- 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.

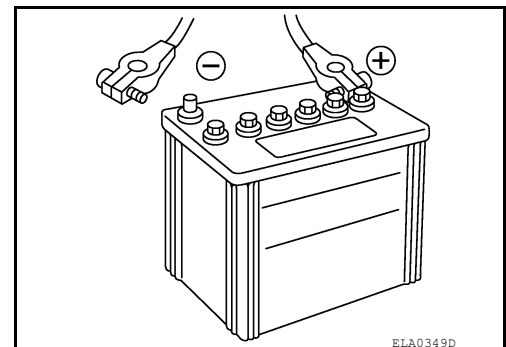
METHODS OF PREVENTING OVER-DISCHARGE

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:000000012546687

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

Checking Electrolyte Level

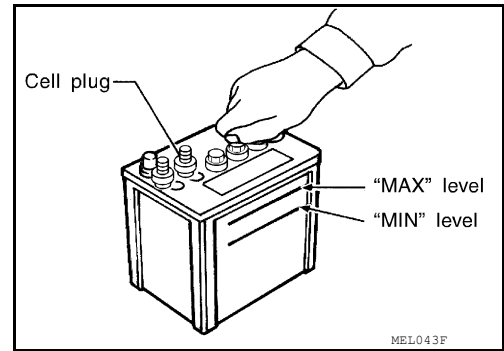
WARNING:

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

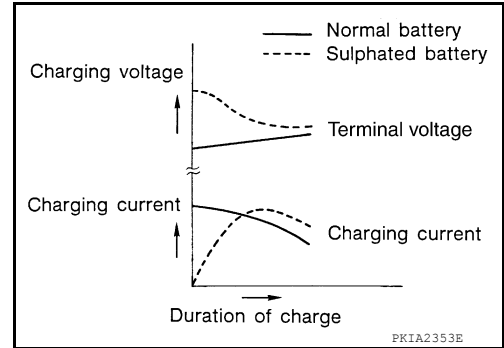
< BASIC INSPECTION >

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



SULFATION

- **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 sulfation on the cell plates.**
- **To determine if a battery has been “sulfated”, 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 sulfated batteries.**
- **A sulfated 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.**



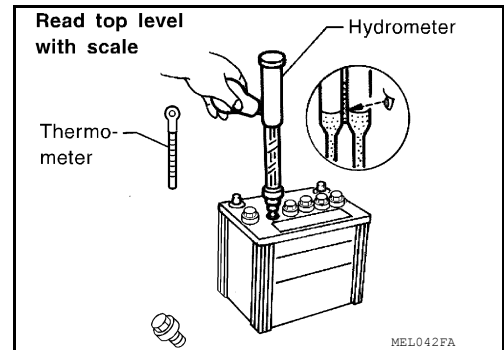
Specific Gravity Check

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	7	2
3/4 charged		2.5
1/2 charged		5
1/4 charged		7.5
Almost discharged		9
Completely discharged		10

Charging Rates (Quick Charge)

Approximate charge condition	Charge current (A)	Charge time (h)
Fully charged	—	—
3/4 charged	16	0.5
1/2 charged	33	
1/4 charged		
Almost discharged	—	—
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:000000012546688

Required Procedure After Battery Disconnection

System	Item	Reference
Power Window Control System	Power Window System Initialization	PWC-34
Automatic Drive Positioner	Automatic Drive Positioner System Initialization	Refer to Owner's Manual.
Heater & Air Conditioning Control System	Temperature Setting Trimmer	HAC-61
	Foot Position Setting Trimmer	HAC-61
	Inlet Port Memory Function (FRE)	HAC-61
	Inlet Port Memory Function (REC)	HAC-62
Audio, Visual & Navigation System	Audio (Radio Preset)	Refer to Owner's Manual.
	Navigation System	Refer to Owner's Manual.

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FUSE INSPECTION

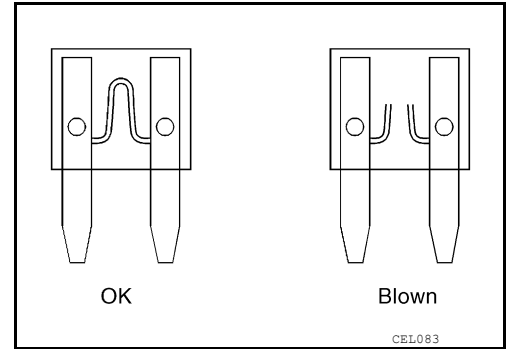
< BASIC INSPECTION >

FUSE INSPECTION

How To Check

INFOID:000000013111592

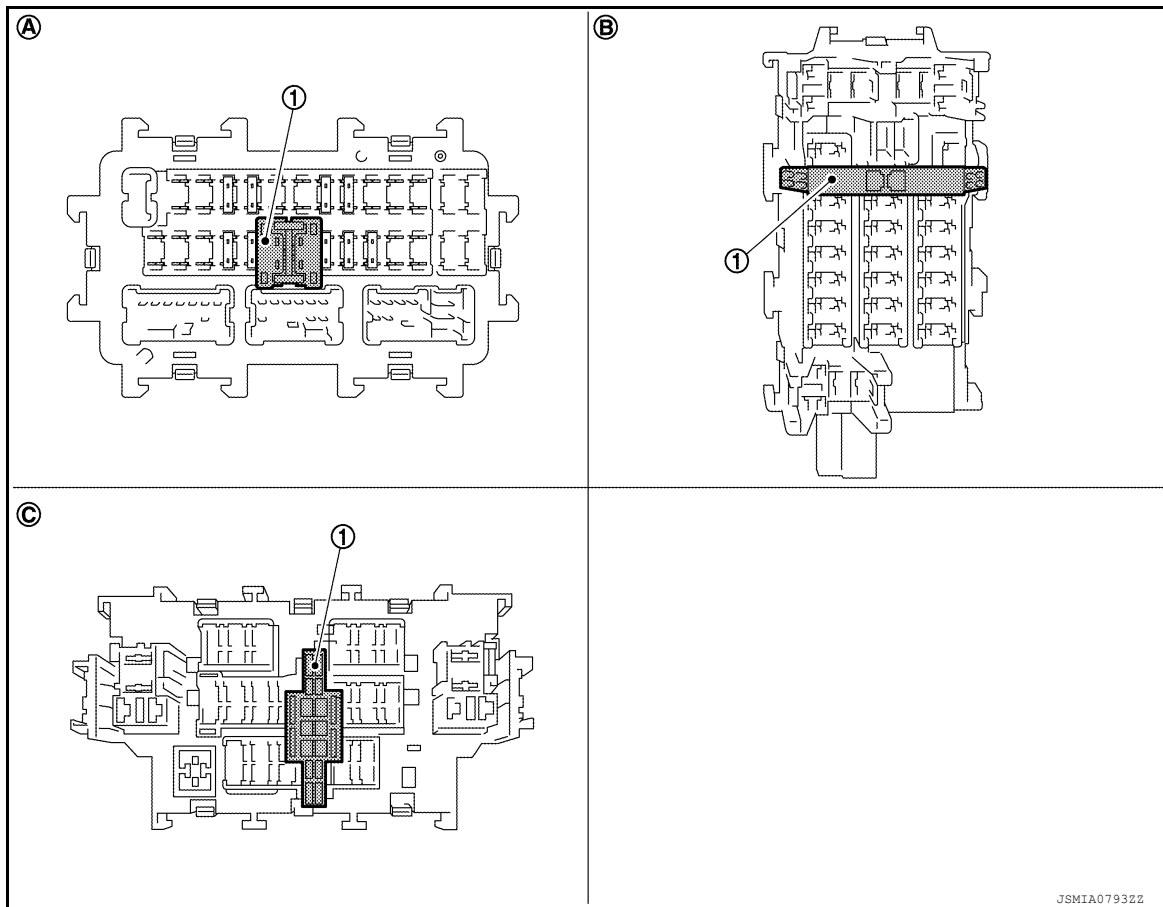
- If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse.
- Use fuse of specified rating. Never use fuse of more than specified rating.
- Do not partially install fuse; always insert it into fuse holder properly.
- Remove fuse for "ELECTRICAL PARTS (BAT)" if vehicle is not used for a long period of time.



EXTENDED STORAGE SWITCH (IF EQUIPPED)

NOTE:

- When extended storage switch is pulled out, a message may be shown in the meter or display. To turn message/display off, push extended storage switch in.
 - The following information is related to extended storage switch (shipping mode). For information related to BCM transit mode, refer to [BCS-18, "SHIPPING MODE CONTROL SYSTEM : System Description"](#).
- The following switch may be mounted on the fuse block (Junction Box) for transportation and storage.



① Extended storage switch

Ⓐ Type A

Ⓑ Type B

Ⓒ Type C

Remove the extended storage switch if it interferes when checking fuses.

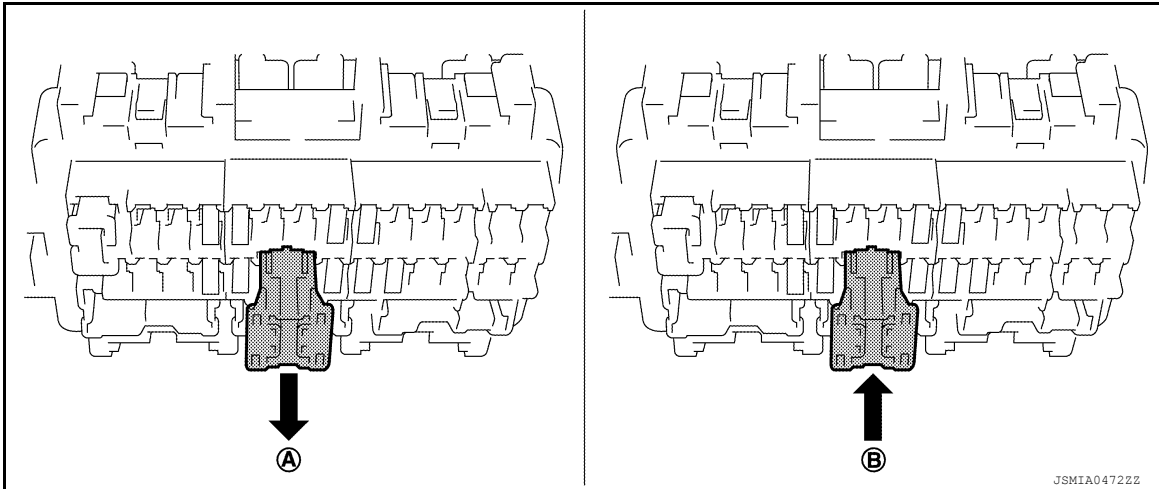
How/When to turn Extended Storage Switch ON/OFF

CAUTION:

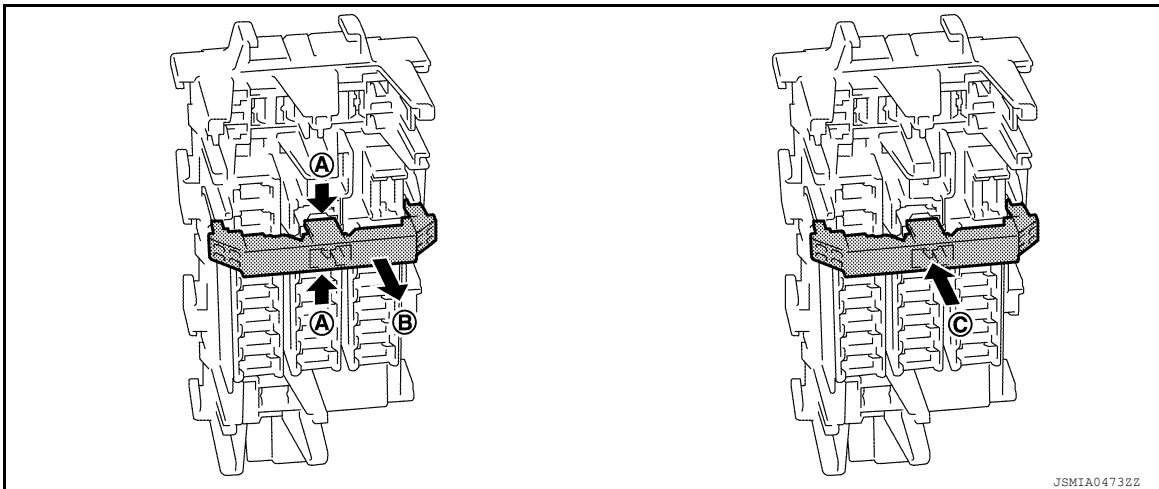
FUSE INSPECTION

< BASIC INSPECTION >

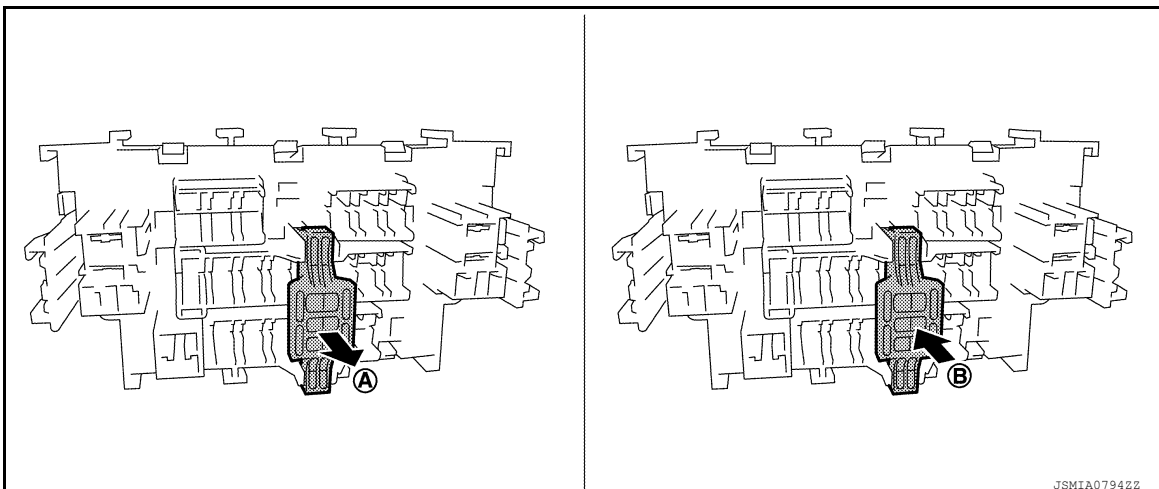
- Turn the ignition switch OFF when operating the extended storage switch.
- Under normal conditions, keep the extended storage switch in ON state. Never operate the extended storage switch except when necessary.
- Type A



- To turn the extended storage switch OFF, pull out in ① direction as shown in the figure.
- To turn the extended storage switch ON, press in ② direction as shown in the figure.
- Type B



- To turn the extended storage switch OFF, pinch tabs ① of the switch and pull out in ② direction as shown in the figure.
- To turn the extended storage switch ON, press in ③ direction as shown in the figure.
- Type C



- To turn the extended storage switch OFF, pull out in ① direction as shown in the figure.
- To turn the extended storage switch ON, press in ② direction as shown in the figure.

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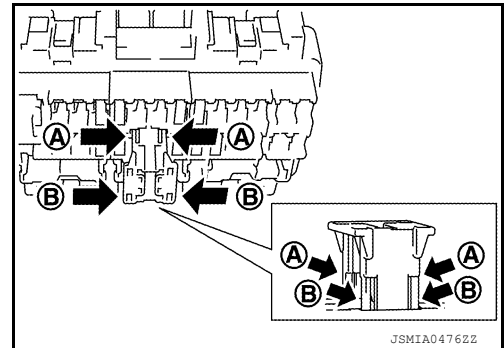
FUSE INSPECTION

< BASIC INSPECTION >

How To Remove Extended Storage Switch

Type A

1. Turn the ignition switch OFF.
2. Turn the extended storage switch OFF.
3. Pinch tabs (A) and tilt to disengage the extended storage switch.
Pinch tabs (B) to remove the extended storage switch.



CAUTION:

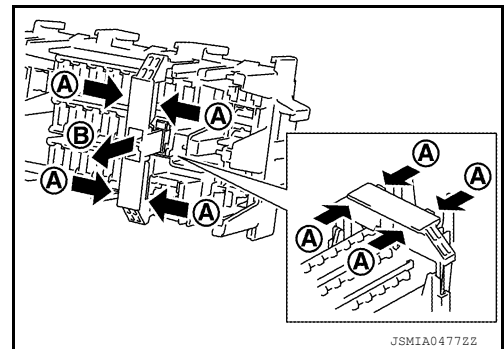
For bus bar type extended storage switch, never replace bus bar with a fuse, or fuse may continually open.

NOTE:

- Extended storage switch and fuse (or bus bar) are removed together. Remove fuse (or bus bar) from extended storage switch, if necessary.
- Install removed fuse (or bus bar) to fuse block.
- Extended storage switch is for transportation and storage. Reinstallation of switch is not required after removal, but fuse (or bus bar) must be reinstalled/pushed back in to activate all electrical systems and turn message off (which may be shown in meter/display).

Type B

1. Turn the ignition switch OFF.
2. Turn the extended storage switch OFF.
3. Pinch tabs (A) and firmly pull out the extended storage switch in (B) direction.



CAUTION:

For bus bar type extended storage switch, never replace bus bar with a fuse, or fuse may continually open.

NOTE:

- Extended storage switch and fuse (or bus bar) may be removed together. Remove fuse (or bus bar) from extended storage switch, if necessary.
- Install removed fuse (or bus bar) to fuse block.
- Extended storage switch is for transportation and storage. Reinstallation of switch is not required after removal, but fuse (or bus bar) must be reinstalled/pushed back in to activate all electrical systems and turn message off (which may be shown in meter/display).

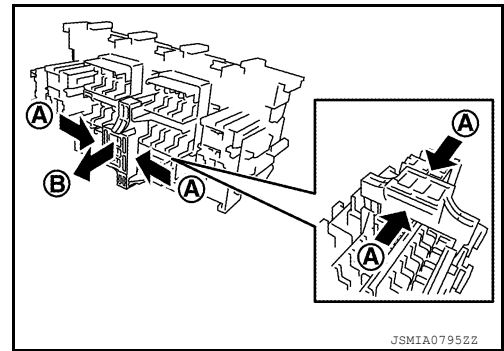
Type C

1. Turn the ignition switch OFF.
2. Turn the extended storage switch OFF.

FUSE INSPECTION

< BASIC INSPECTION >

3. Pinch tabs (A) and firmly pull out the extended storage switch in (B) direction.



CAUTION:

For bus bar type extended storage switch, never replace bus bar with a fuse, or fuse may continually open.

NOTE:

- Extended storage switch and fuse (or bus bar) are removed together. Remove fuse (or bus bar) from extended storage switch, if necessary.
- Install removed fuse (or bus bar) to fuse block.
- Extended storage switch is for transportation and storage. Reinstallation of switch is not required after removal, but fuse (or bus bar) must be reinstalled/pushed back in to activate all electrical systems and turn message off (which may be shown in meter/display).

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FUSIBLE LINK INSPECTION

< BASIC INSPECTION >

FUSIBLE LINK INSPECTION

Fusible Link

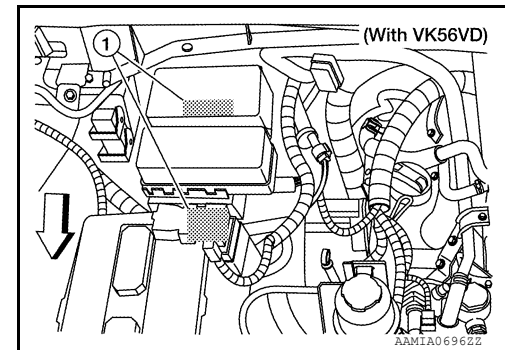
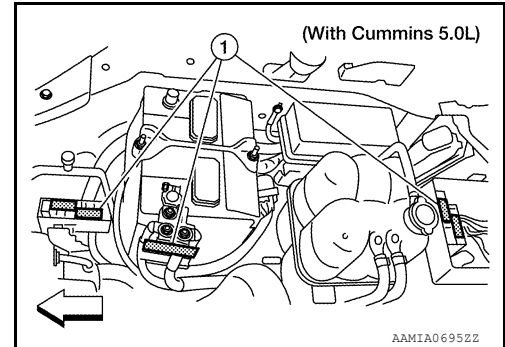
INFOID:000000012546690

A melted fusible link can be detected either by visual inspection or by feeling with finger tip. If its condition is questionable, use circuit tester or test lamp.

NOTE:

The Cummins 5.0L is equipped with two batteries. Battery RH is shown and Battery LH similar.

The VK56VD is equipped with a single battery.



1 : Fusible link

⇐: Vehicle front

CAUTION:

- If fusible link should melt, it is possible that critical circuit (power supply or large current carrying circuit) is shorted. In such a case, carefully check and eliminate cause of malfunction.
- Never wrap outside of fusible link with vinyl tape. Important: Never let fusible link touch any other wiring harness, vinyl or rubber parts.

BATTERY

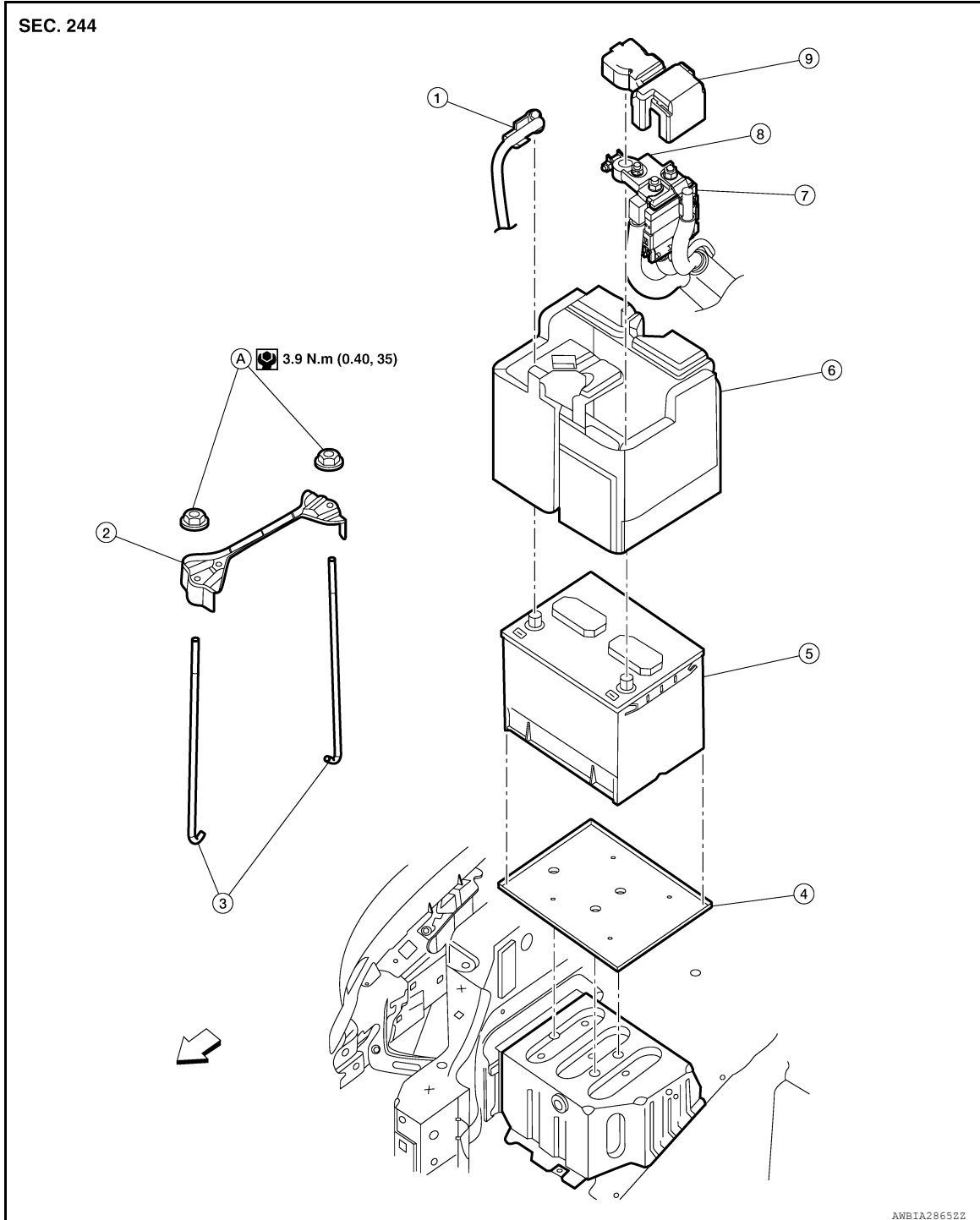
< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

BATTERY

Exploded View - CUMMINS 5.0L

INFOID:000000013032440



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|-------------------------------|------------------------------|------------------------------------|
| 1. Battery negative cable | 2. Battery frame | 3. Battery rods |
| 4. Sub battery tray | 5. Battery | 6. Battery cover |
| 7. Fusible link box (battery) | 8. Battery positive terminal | 9. Battery positive terminal cover |
| A. Battery rod nuts | ⇐ Front | |

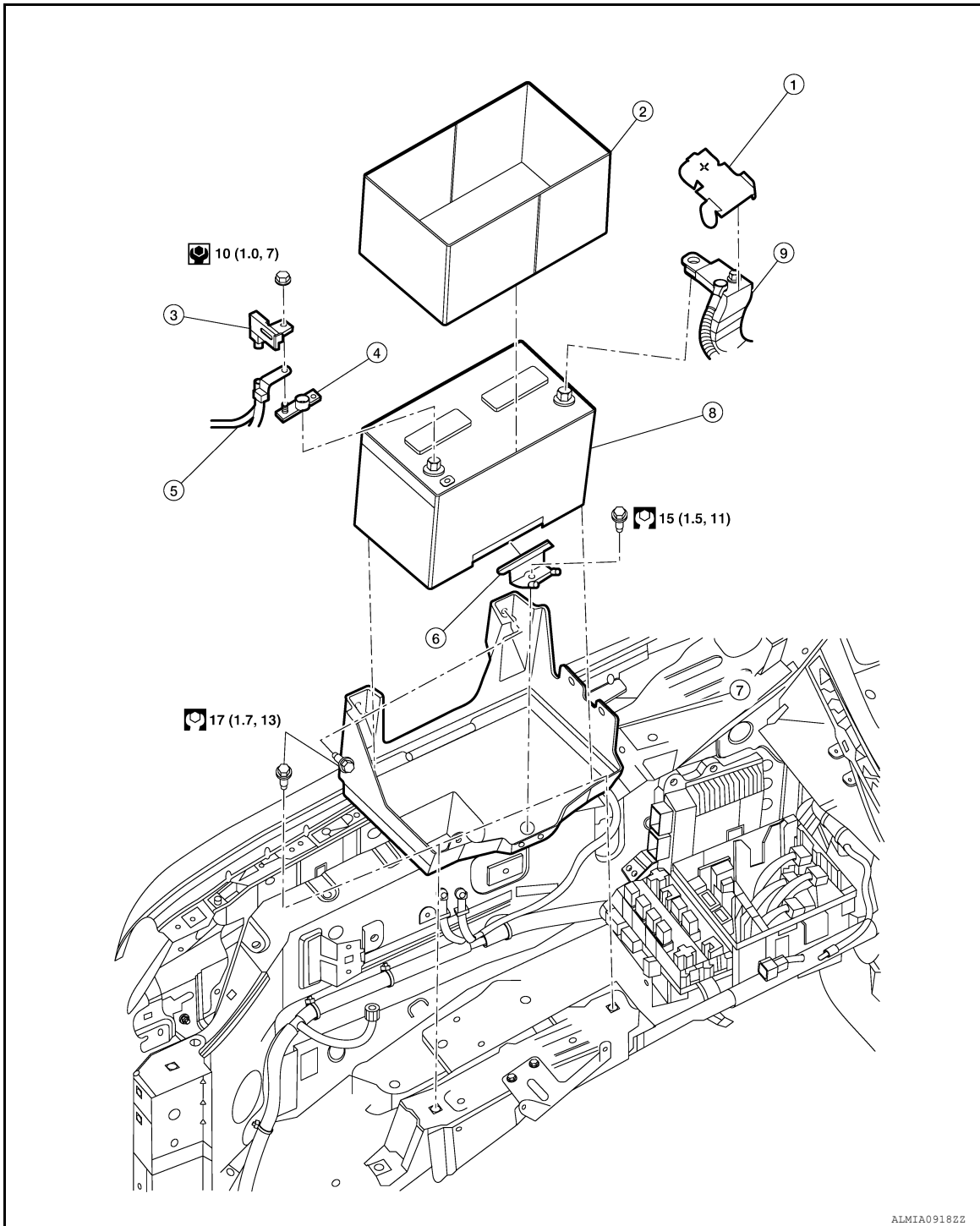
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BATTERY

< REMOVAL AND INSTALLATION >

Exploded View - VK56VD

INFOID:000000013862195



ALMIA09182Z

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| 1. Battery positive terminal cover | 2. Battery cover | 3. Battery current sensor |
| 4. Battery negative terminal | 5. Battery negative cable | 6. Battery wedge bracket |
| 7. Battery tray | 8. Battery | 9. Fusible link box (battery) |

Battery Disconnect

INFOID:000000013190997

CUMMINS 5.0L

WARNING:

BATTERY

< REMOVAL AND INSTALLATION >

Battery acid and battery acid fumes are extremely dangerous and can cause severe burns and explosion. To help reduce the risk of personal injury:

- Wear appropriate goggles and protective clothing.
- Always properly ventilate the area where the service is being performed.
- Never allow battery fluid to come in contact with skin, eyes, fabrics, or painted surfaces.
- To avoid arcing, remove the negative (-) battery cable first and attach the negative (-) battery cable last.
- If acid contacts eyes, skin, or clothing, immediately flush with water for 15 minutes and seek medical attention.

NOTE:

Battery RH shown, battery LH similar.

Removal

1. Pull back cover of battery positive terminal.
2. Loosen the battery terminal nuts and disconnect the battery or batteries negative and positive terminals.

CAUTION:

To prevent damage to the parts, disconnect the battery negative terminal first.

Installation

Installation is in the reverse order of removal.

CAUTION:

Replace the fusible link box (battery) if it has been dropped or sustained an impact.

To install the battery, carefully read the following instructions:

- To prevent damage to the parts, connect the battery cable to the positive terminal first.
- After connecting battery cables, to securely supply battery voltage, ensure that they are tightly clamped to battery terminals for good contact.
- To securely supply battery voltage, check battery terminal for poor connection caused by corrosion.

Battery terminal nuts : 5.4 N·m (0.55 kg-m, 48 in-lb)

Reset electronic systems as necessary. Refer to [PG-167, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#).

VK56VD

WARNING:

Battery acid and battery acid fumes are extremely dangerous and can cause severe burns and explosion. To help reduce the risk of personal injury:

- Wear appropriate goggles and protective clothing.
- Always properly ventilate the area where the service is being performed.
- Never allow battery fluid to come in contact with skin, eyes, fabrics, or painted surfaces.
- To avoid arcing, remove the negative (-) battery cable first and attach the negative (-) battery cable last.
- If acid contacts eyes, skin, or clothing, immediately flush with water for 15 minutes and seek medical attention.

Removal

1. Pull back cover of battery positive terminal.
2. Loosen the battery terminal nuts and disconnect the battery or batteries negative and positive terminals.

CAUTION:

To prevent damage to the parts, disconnect the battery negative terminal first.

Installation

Installation is in the reverse order of removal.

CAUTION:

Replace the fusible link box (battery) if it has been dropped or sustained an impact.

To install the battery, carefully read the following instructions:

- To prevent damage to the parts, connect the battery cable to the positive terminal first.
- After connecting battery cables, to securely supply battery voltage, ensure that they are tightly clamped to battery terminals for good contact.
- To securely supply battery voltage, check battery terminal for poor connection caused by corrosion.

Battery terminal nuts : 10 N·m (1.0 kg-m, 7 ft-lb)

BATTERY

< REMOVAL AND INSTALLATION >

Reset electronic systems as necessary. Refer to [PG-167, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#).

Removal and Installation - CUMMINS 5.0L

INFOID:000000012546691

REMOVAL

1. Disconnect battery or batteries. Refer to [PG-174, "Battery Disconnect"](#).
2. Remove battery rod nuts.
3. Remove battery rods (if necessary).
4. Remove battery cover (if necessary).
5. Remove battery from vehicle.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

Replace the fusible link box (battery) if it has been dropped or sustained an impact.

To install the battery, carefully read the following instructions:

- To prevent damage to the parts, connect the battery cable to the positive terminal first.
- After connecting battery cables, to securely supply battery voltage, ensure that they are tightly clamped to battery terminals for good contact.
- To securely supply battery voltage, check battery terminal for poor connection caused by corrosion.

Battery rod nuts : 3.9 N·m (0.40 kg-m, 35 in-lb)

Reset electronic systems as necessary. Refer to [PG-167, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#).

Removal and Installation - VK56VD

INFOID:000000013924867

REMOVAL

1. Disconnect battery or batteries. Refer to [PG-174, "Battery Disconnect"](#).
2. Remove battery wedge bracket nut.
3. Remove battery cover (if necessary).
4. Remove battery from vehicle.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

Replace the fusible link box (battery) if it has been dropped or sustained an impact.

To install the battery, carefully read the following instructions:

- To prevent damage to the parts, connect the battery cable to the positive terminal first.
- After connecting battery cables, to securely supply battery voltage, ensure that they are tightly clamped to battery terminals for good contact.
- To securely supply battery voltage, check battery terminal for poor connection caused by corrosion.

Battery wedge bracket nut : 15 N·m (1.5 kg-m, 11 ft-lb)

Reset electronic systems as necessary. Refer to [PG-167, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#).

SUB BATTERY TRAY

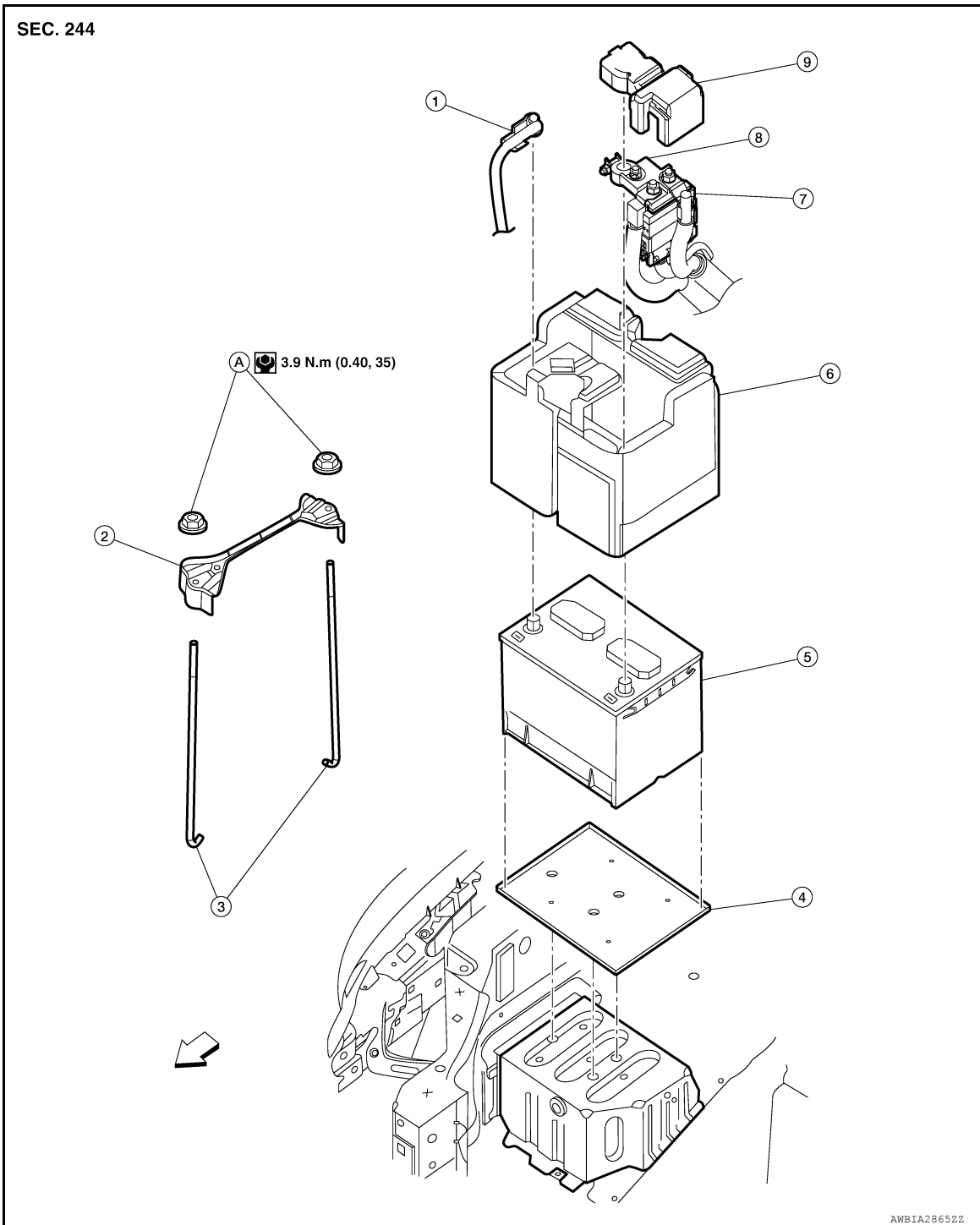
< REMOVAL AND INSTALLATION >

SUB BATTERY TRAY

CUMMINS 5.0L

CUMMINS 5.0L : Exploded View

INFOID:000000013032441



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|-------------------------------|------------------------------|------------------------------------|
| 1. Battery negative cable | 2. Battery frame | 3. Battery rods |
| 4. Sub battery tray | 5. Battery | 6. Battery cover |
| 7. Fusible link box (battery) | 8. Battery positive terminal | 9. Battery positive terminal cover |
| A. Battery rod nuts | ↩ Front | |

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SUB BATTERY TRAY

< REMOVAL AND INSTALLATION >

CUMMINS 5.0L : Removal and Installation

INFOID:000000012546692

REMOVAL

1. Remove the battery or batteries. Refer to [PG-176, "Removal and Installation - CUMMINS 5.0L"](#).
2. Remove the battery tray liner.

INSTALLATION

Installation is in the reverse order of removal.

- Check that battery tray liner locating pins are properly inserted into battery mounting bracket.

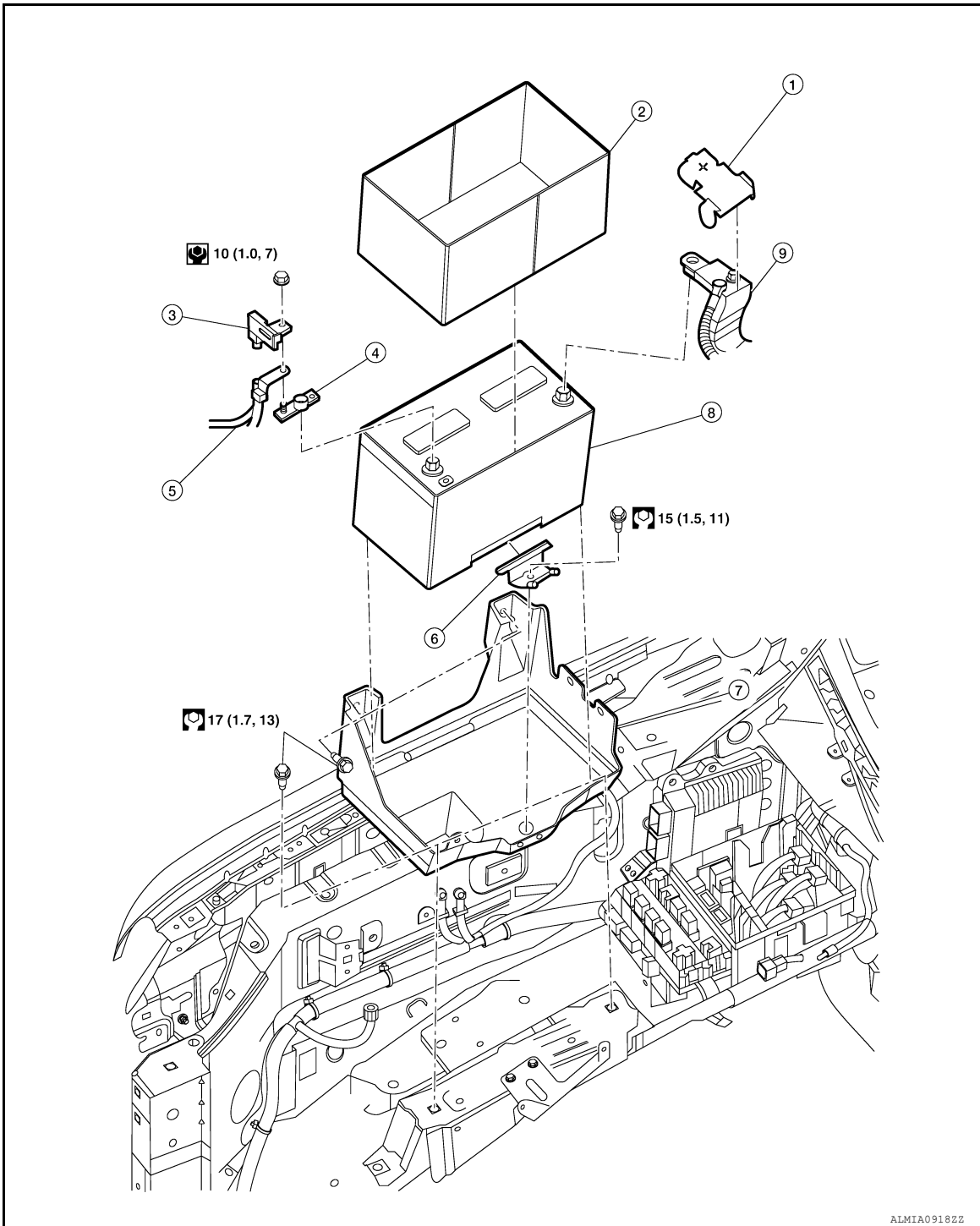
VK56VD

SUB BATTERY TRAY

< REMOVAL AND INSTALLATION >

VK56VD : Exploded View

INFOID:000000013924878



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|------------------------------------|---------------------------|-------------------------------|
| 1. Battery positive terminal cover | 2. Battery cover | 3. Battery current sensor |
| 4. Battery negative terminal | 5. Battery negative cable | 6. Battery wedge bracket |
| 7. Battery tray | 8. Battery | 9. Fusible link box (battery) |

VK56VD : Removal and Installation

INFOID:000000013924879

REMOVAL

1. Remove the battery or batteries. Refer to [PG-176. "Removal and Installation - CUMMINS 5.0L"](#).
2. Remove bolts and remove battery tray.

SUB BATTERY TRAY

< REMOVAL AND INSTALLATION >

INSTALLATION

Installation is in the reverse order of removal.

BATTERY TERMINAL WITH FUSIBLE LINK

< REMOVAL AND INSTALLATION >

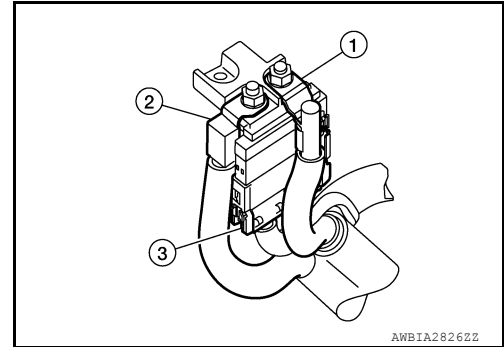
BATTERY TERMINAL WITH FUSIBLE LINK

Removal and Installation

INFOID:000000012546694

REMOVAL

1. Disconnect battery or batteries. Refer to [PG-174, "Battery Disconnect"](#).
2. Disconnect battery positive terminal from the fusible link box (battery).
3. Disconnect battery positive cables (1) and (2) from the fusible link box (battery).
4. Disconnect the harness connector (3) from the fusible link box (battery).



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

Replace the fusible link box (battery) if it has been dropped or sustained an impact.

- To prevent damage to the parts, connect the battery cable to the positive terminal first.
- After connecting battery cables, to securely supply battery voltage, ensure that they are tightly clamped to battery terminals for good contact.
- To securely supply battery voltage, check battery terminal for poor connection caused by corrosion.

Battery positive cable nuts : 10.3 N·m (1.1 kg-m, 8.0 ft-lb)

Reset electronic systems as necessary. Refer to [PG-167, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#).

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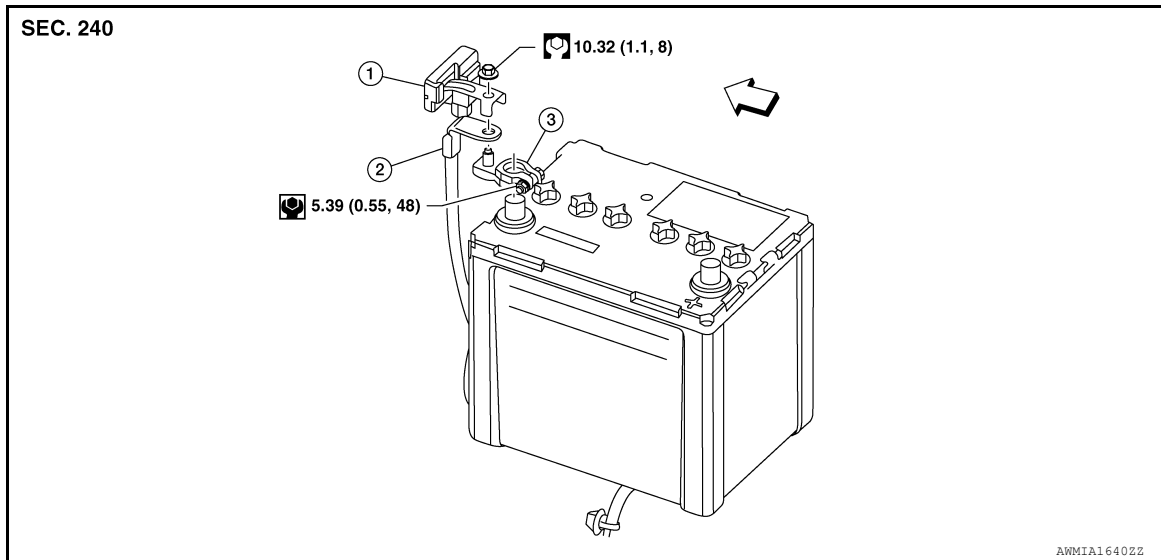
BATTERY CURRENT SENSOR

< REMOVAL AND INSTALLATION >

BATTERY CURRENT SENSOR

Exploded View

INFOID:000000013936735



1. Current sensor

2. Negative cable

3. Negative terminal

↔ : Front

Removal and Installation

INFOID:000000013936736

REMOVAL

1. Disconnect negative terminal from the battery.
2. Disconnect harness connector from current sensor.
3. Remove nut and separate negative cable from the current sensor and remove the current sensor.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- To prevent damage to the parts, connect the positive terminal to the battery positive post first.
- After connecting the positive and negative terminals to securely supply battery voltage, ensure that the positive and negative terminals are tightly clamped to battery positive and negative posts for good contact.
- To securely supply battery voltage, check the positive and negative terminals for poor connection caused by corrosion.

Reset electronic systems as necessary. Refer to [PG-167, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#).

SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Battery

INFOID:0000000012546695

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Engine	Heavy duty battery	
	Cummins 5.0L	VK56VD
Type*	Gr 35	Gr 27
Capacity (20 HR) minimum V-AH	12 - 63	12 - 80
Cold cranking current @ -18°C (0°F) [A]	550	710

*: Always check with the Parts Department for the latest parts information.