

SECTION **PG**

POWER SUPPLY, GROUND & CIRCUIT ELEMENTS

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PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:0000000014388628

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:0000000014388629

- 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.

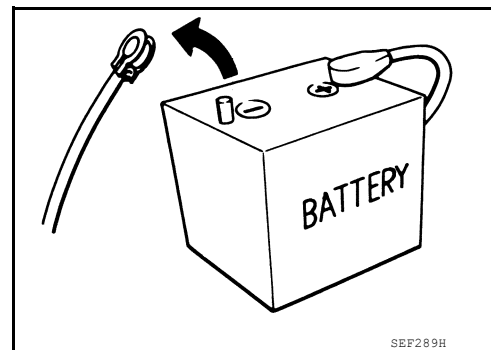
NOTE:

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:0000000014388630

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 >

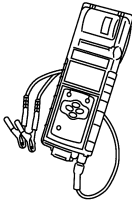
PREPARATION

PREPARATION

Special Service Tool

INFOID:0000000014388631

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

Tool number (TechMate No.) Tool name	Description
— (—) Model GR8-1200 NI Multitasking battery and electrical diagnostic station  AWI1A1239ZZ	Tests batteries, starting and charging systems and charges batteries. For operating instructions, refer to diagnostic station instruction manual.
— (—) Model EXP-800 NI Battery and electrical diagnostic analyzer  JSMIA0806ZZ	Tests batteries and charging systems. For operating instructions, refer to diagnostic analyzer instruction manual.

Commercial Service Tool

INFOID:0000000014388632

Tool name	Description
Power tool  PIIB1407E	Loosening nuts, screws and bolts

ELECTRICAL UNITS LOCATION

< SYSTEM DESCRIPTION >

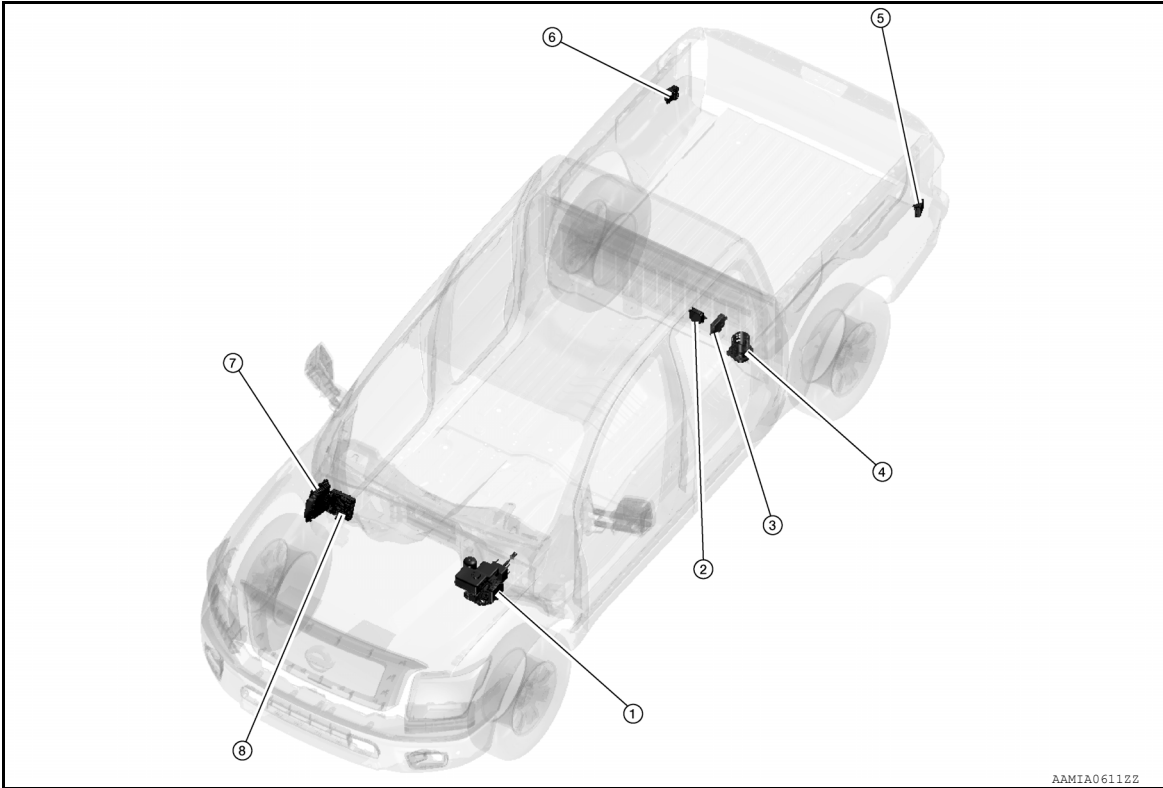
SYSTEM DESCRIPTION

ELECTRICAL UNITS LOCATION

Electrical Units Location

INFOID:0000000014388633

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

PG

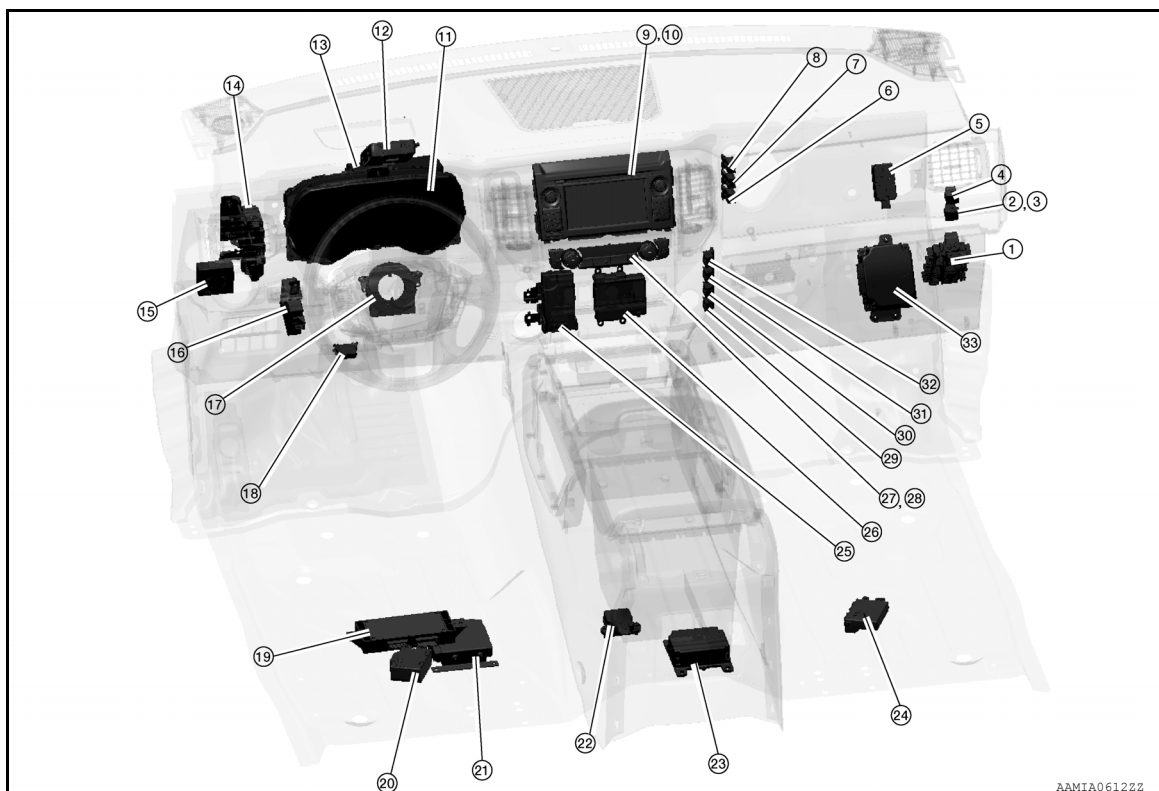
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O

P

ELECTRICAL UNITS LOCATION

< SYSTEM DESCRIPTION >



- | | | |
|--|--|--|
| 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

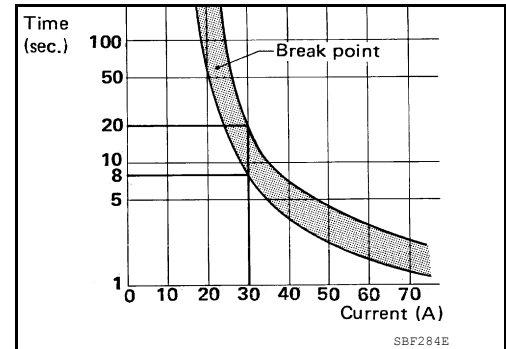
Circuit Breaker (Built Into BCM)

INFOID:0000000014388634

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

This circuit breaker is used for the following systems:

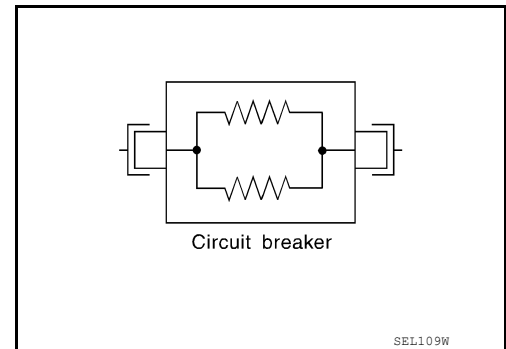
- Power windows



Circuit Breaker (External to BCM)

INFOID:0000000014388635

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:0000000014388636

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.

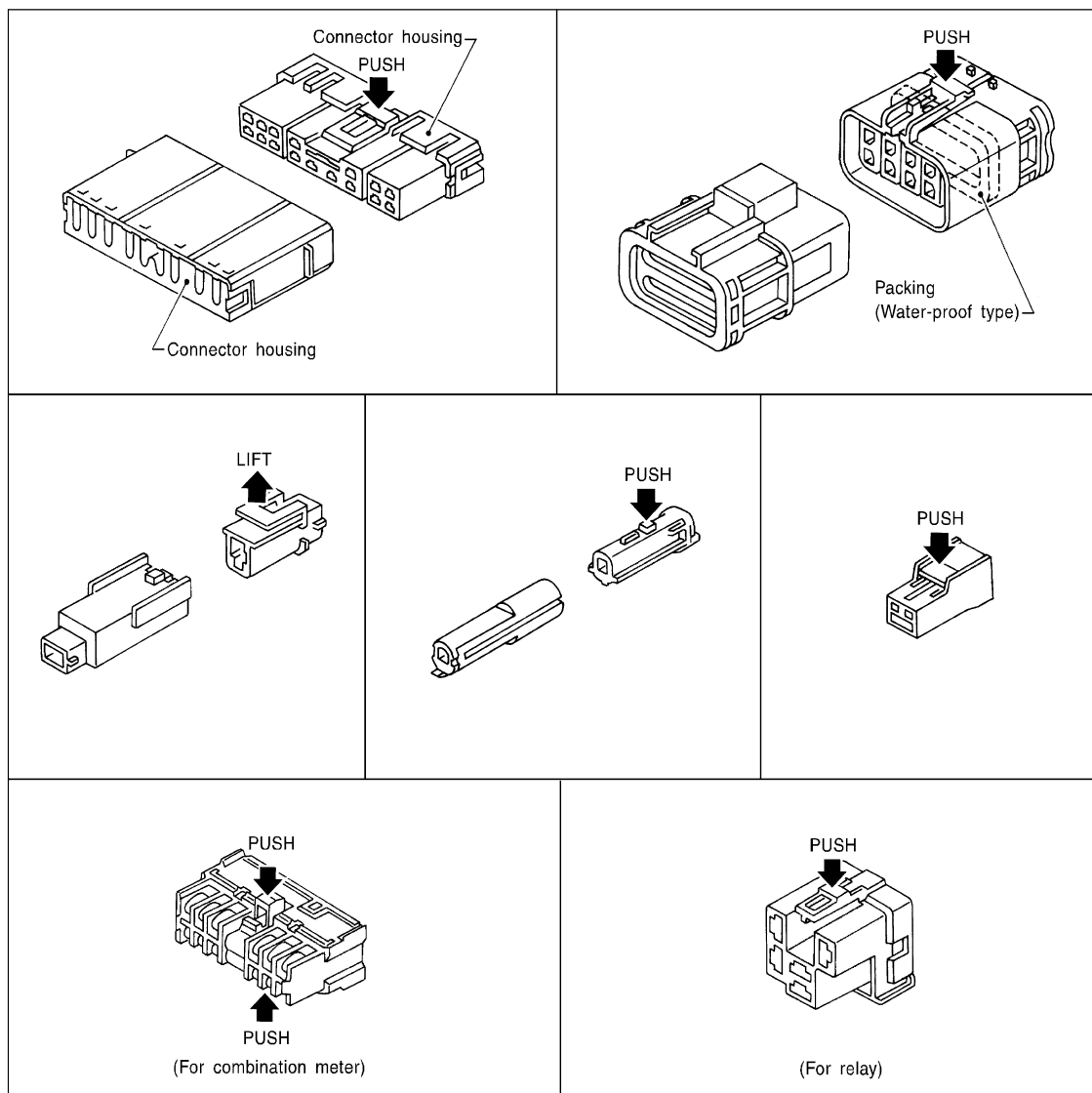
A
B
C
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K
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N
O
P

PG

COMPONENT PARTS

< SYSTEM DESCRIPTION >

[Example]



SEL769DA

HARNESS CONNECTOR (SLIDE-LOCKING TYPE)

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

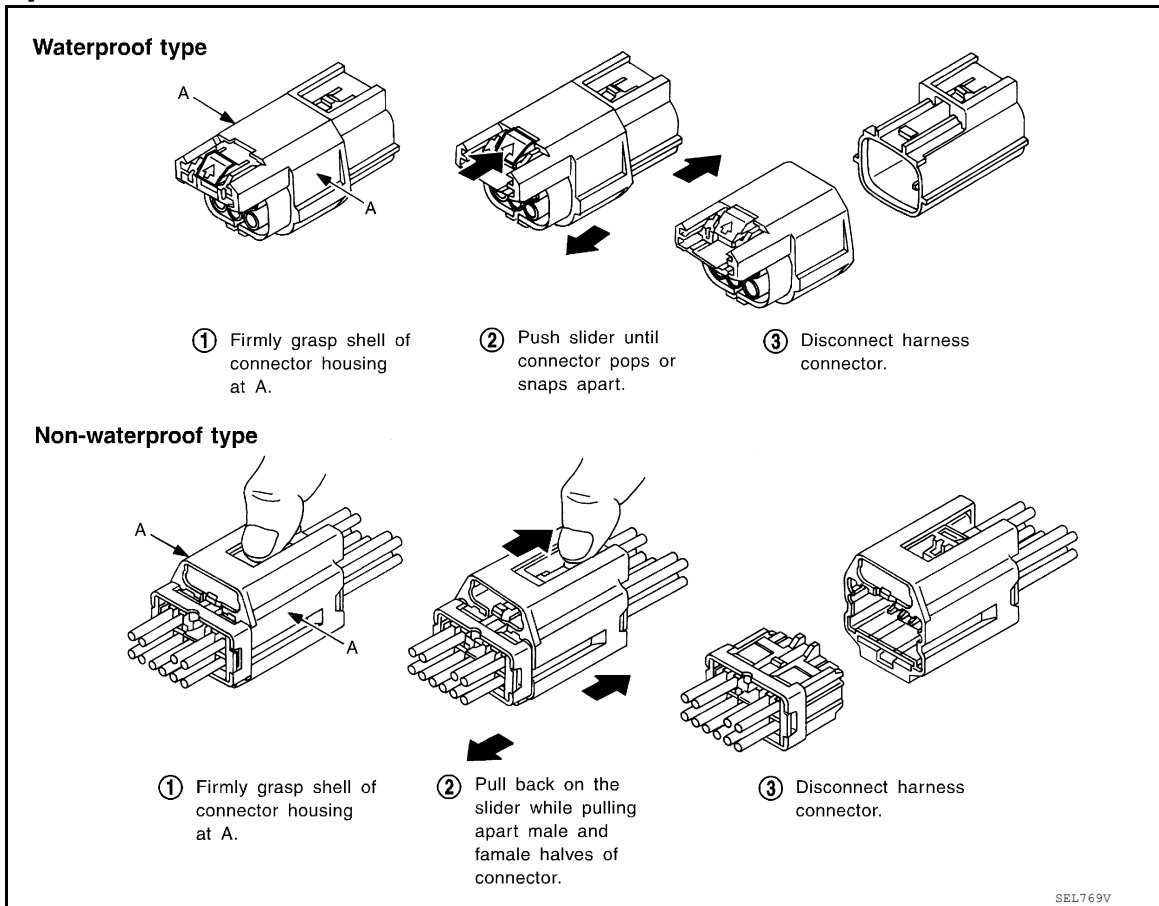
CAUTION:

- **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)

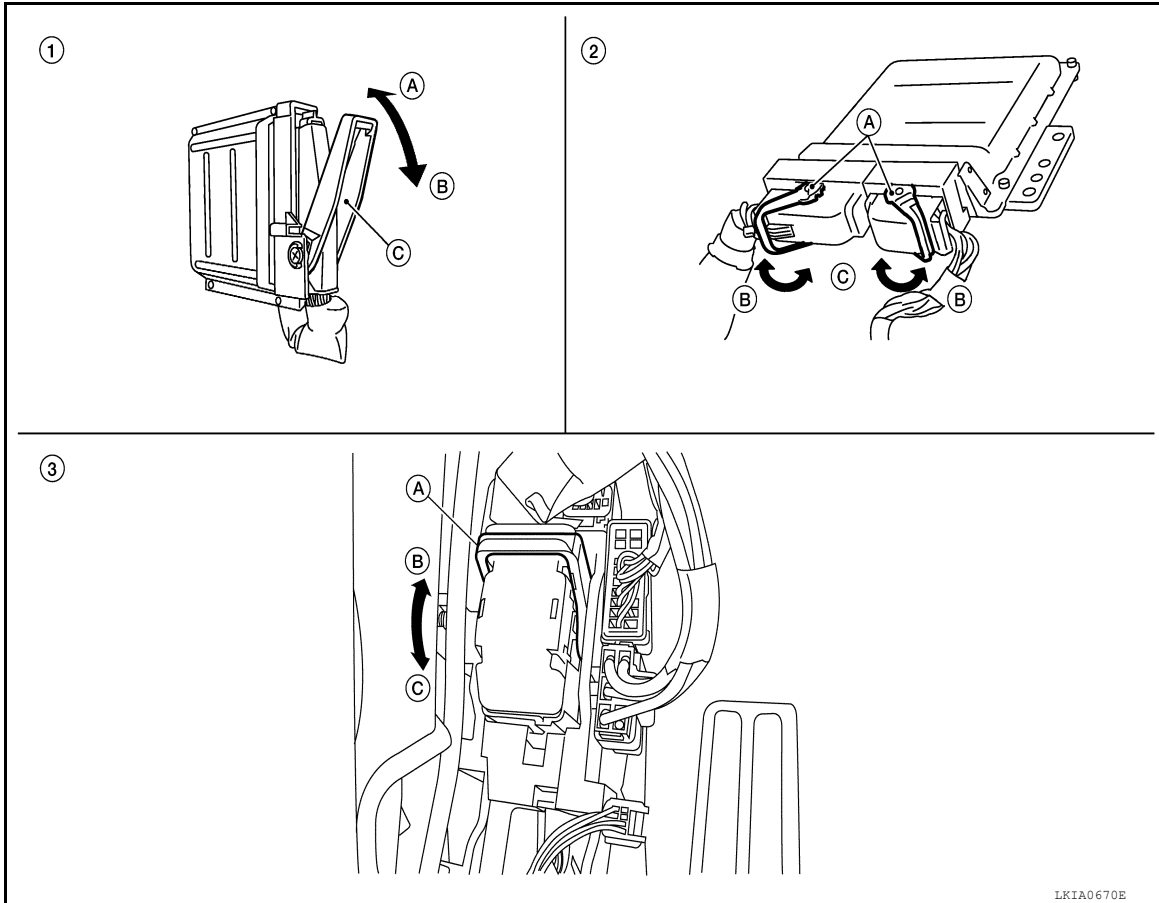
- Lever locking type harness connectors are used on certain control units and control modules such as ECM, ABS actuator and electric unit (control unit), etc.
- Lever locking type harness connectors are also used on super multiple junction (SMJ) connectors.
- Always confirm the lever is fully locked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

CAUTION:

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.



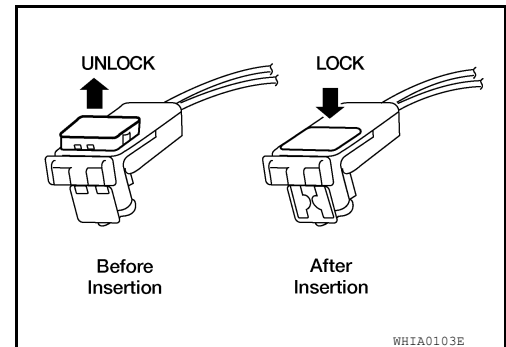
- | | | |
|-----------------------------------|---------------------------------|------------------|
| 1. Control unit with single lever | 2. Control unit with dual lever | 3. SMJ connector |
| A. Fasten | A. Lever | A. Lever |
| B. Loosen | B. Fasten | B. Fasten |
| C. Lever | C. Loosen | C. Loosen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

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

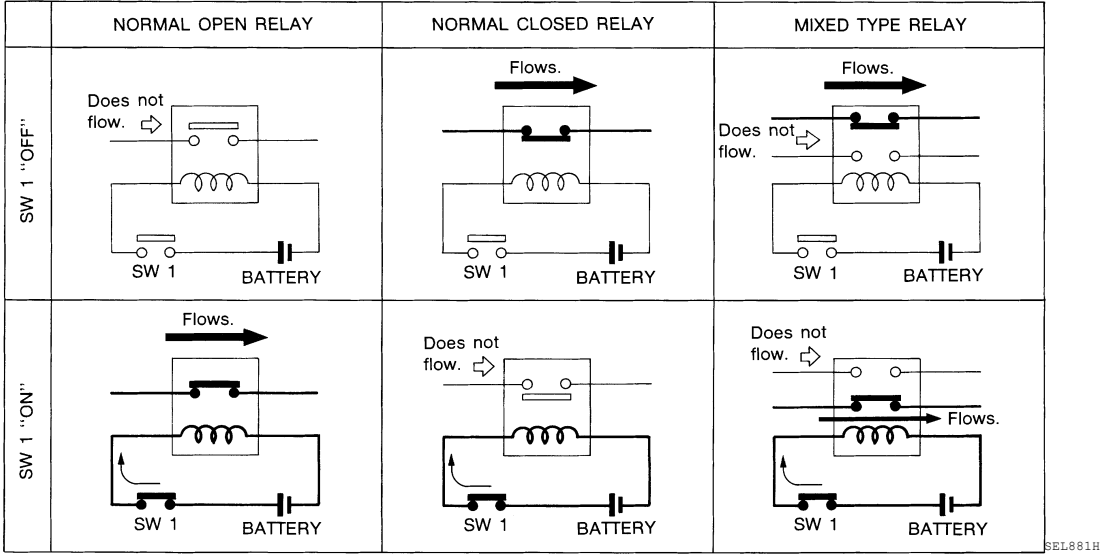
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NORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

COMPONENT PARTS

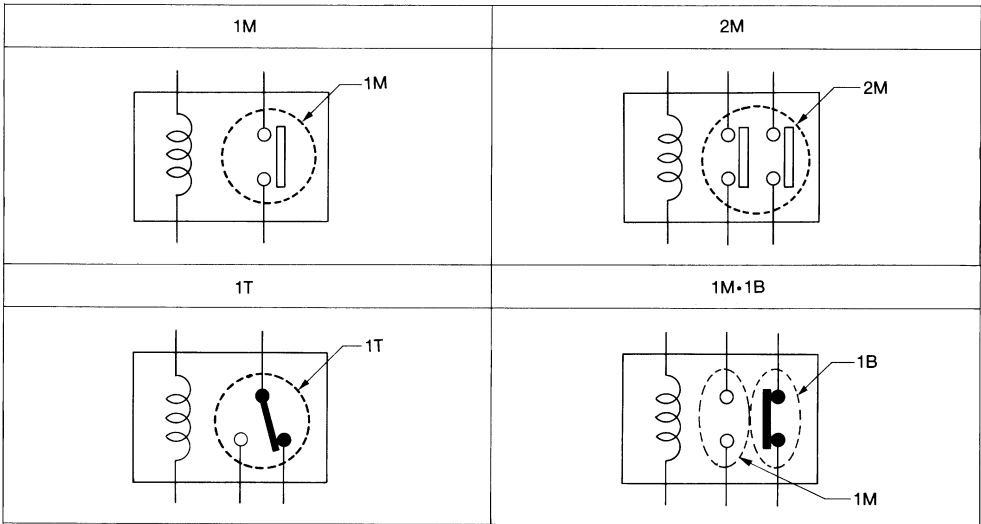
< SYSTEM DESCRIPTION >

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



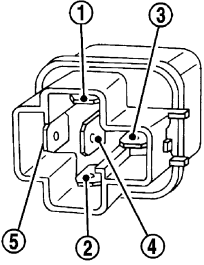
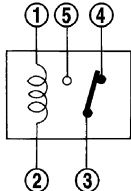
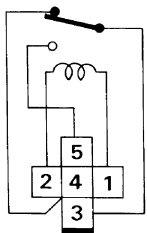
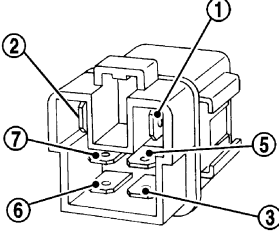
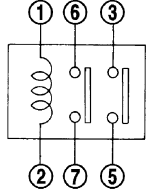
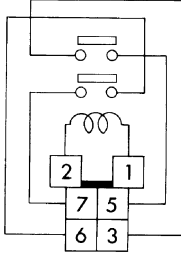
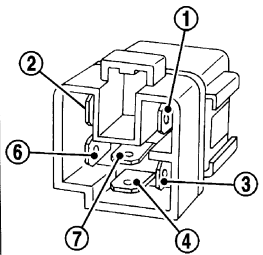
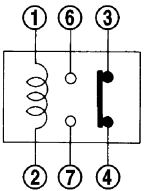
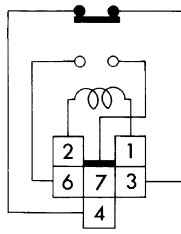
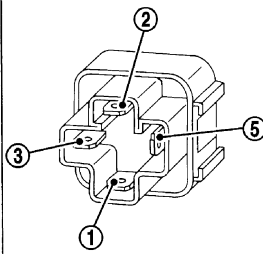
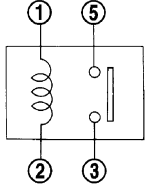
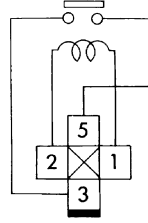
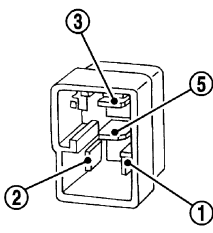
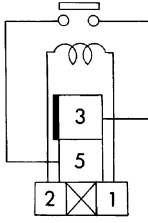
TYPE OF STANDARDIZED RELAYS

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



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.

SEL186W

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BATTERY POWER SUPPLY - WITH Cummins 5.0L

Legend:

- : CAN COMMUNICATION LINE FOR DIAGNOSIS
- 4Y : WITH 4WD SYSTEM
- CU : WITH CLIMATE CONTROLLED SEAT
- DL : WITH ELECTRONIC LOCKING REAR DIFFERENTIAL
- E2 : WITHOUT NAVIGATION SYSTEM
- FL : WITH FRONT FOG LAMPS
- HF : WITH FRONT HEATED SEATS
- HK : WITH HALOGEN HEADLAMPS
- HV : WITH HALOGEN HEADLAMPS AND DAYTIME RUNNING LIGHT SYSTEM
- LV : WITH LED HEADLAMPS
- N3 : NAVIGATION SYSTEM WITH AUDIO AMPLIFIER
- N4 : NAVIGATION SYSTEM WITHOUT AUDIO AMPLIFIER
- OG : WITH INVERTER SYSTEM
- OY : CAN COMMUNICATION LINE FOR DIAGNOSIS
- SW : WITH HEATED STEERING WHEEL
- T3 : WITH TRAILER BRAKE
- TT : WITH TRAILER TOW
- V4 : CAN GATEWAY SYSTEM - WITH Cummins 5.0L
- V5 : WITH Cummins 5.0L AND WITHOUT NAVIGATION
- V6 : WITH Cummins 5.0L AND WITH NAVIGATION
- V7 : WITH Cummins 5.0L AND WITH NAVIGATION SYSTEM WITHOUT BLIND SPOT WARNING SYSTEMS
- WA : WITH AUDIO AMPLIFIER

Diagram Description:

The diagram illustrates the battery power supply system for a vehicle equipped with a Cummins 5.0L engine. The system is powered by a BATTERY LH (7) connected to a FUSIBLE LINK BOX LH (BATTERY) (E7, E27, E30, E71, E72). The FUSIBLE LINK BOX contains fuses for 100A (H), 60A (G), 250A (F), 100A (J), and 100A (L). The system is divided into two main sections: the GLOW PLUG CONTROL MODULE (E69) and the FRONT COMBINATION LAMP RH (E61).

Key Components and Connections:

- GLOW PLUG CONTROL MODULE (E69):** This module controls the glow plugs for the engine. It is connected to the battery via a 100A fuse (J) and a 100A fuse (L). The module has terminals for 1, 2, 3, 4, 5, and 6. Terminal 1 is connected to the battery via a 100A fuse (J). Terminal 2 is connected to the battery via a 100A fuse (L). Terminal 3 is connected to the battery via a 60A fuse (G). Terminal 4 is connected to the battery via a 250A fuse (F). Terminal 5 is connected to the battery via a 100A fuse (H). Terminal 6 is connected to the battery via a 100A fuse (J).
- FRONT COMBINATION LAMP RH (E61):** This module controls the front combination lamp. It is connected to the battery via a 100A fuse (H) and a 100A fuse (J). The module has terminals for 1, 2, 3, 4, 5, and 6. Terminal 1 is connected to the battery via a 100A fuse (H). Terminal 2 is connected to the battery via a 100A fuse (J). Terminal 3 is connected to the battery via a 60A fuse (G). Terminal 4 is connected to the battery via a 250A fuse (F). Terminal 5 is connected to the battery via a 100A fuse (H). Terminal 6 is connected to the battery via a 100A fuse (J).

Legend:

- : CAN COMMUNICATION LINE FOR DIAGNOSIS
- 4Y : WITH 4WD SYSTEM
- CU : WITH CLIMATE CONTROLLED SEAT
- DL : WITH ELECTRONIC LOCKING REAR DIFFERENTIAL
- E2 : WITHOUT NAVIGATION SYSTEM
- FL : WITH FRONT FOG LAMPS
- HF : WITH FRONT HEATED SEATS
- HK : WITH HALOGEN HEADLAMPS
- HV : WITH HALOGEN HEADLAMPS AND DAYTIME RUNNING LIGHT SYSTEM
- LV : WITH LED HEADLAMPS
- N3 : NAVIGATION SYSTEM WITH AUDIO AMPLIFIER
- N4 : NAVIGATION SYSTEM WITHOUT AUDIO AMPLIFIER
- OG : WITH INVERTER SYSTEM
- OY : CAN COMMUNICATION LINE FOR DIAGNOSIS
- SW : WITH HEATED STEERING WHEEL
- T3 : WITH TRAILER BRAKE
- TT : WITH TRAILER TOW
- V4 : CAN GATEWAY SYSTEM - WITH Cummins 5.0L
- V5 : WITH Cummins 5.0L AND WITHOUT NAVIGATION
- V6 : WITH Cummins 5.0L AND WITH NAVIGATION
- V7 : WITH Cummins 5.0L AND WITH NAVIGATION SYSTEM WITHOUT BLIND SPOT WARNING SYSTEMS
- WA : WITH AUDIO AMPLIFIER

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

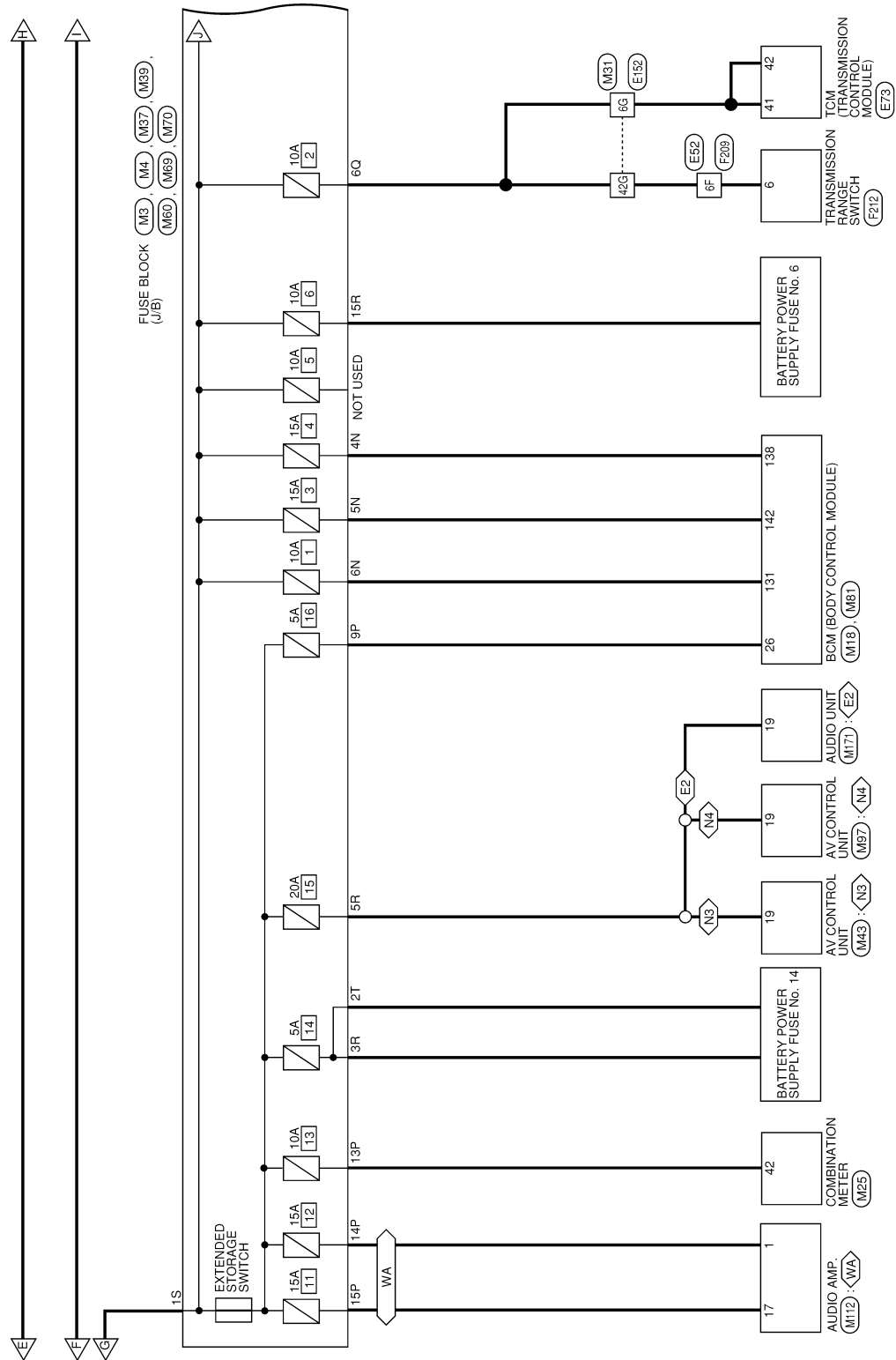
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2017 Titan NAM

POWER SUPPLY ROUTING CIRCUIT

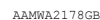
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AAMWA2177GB

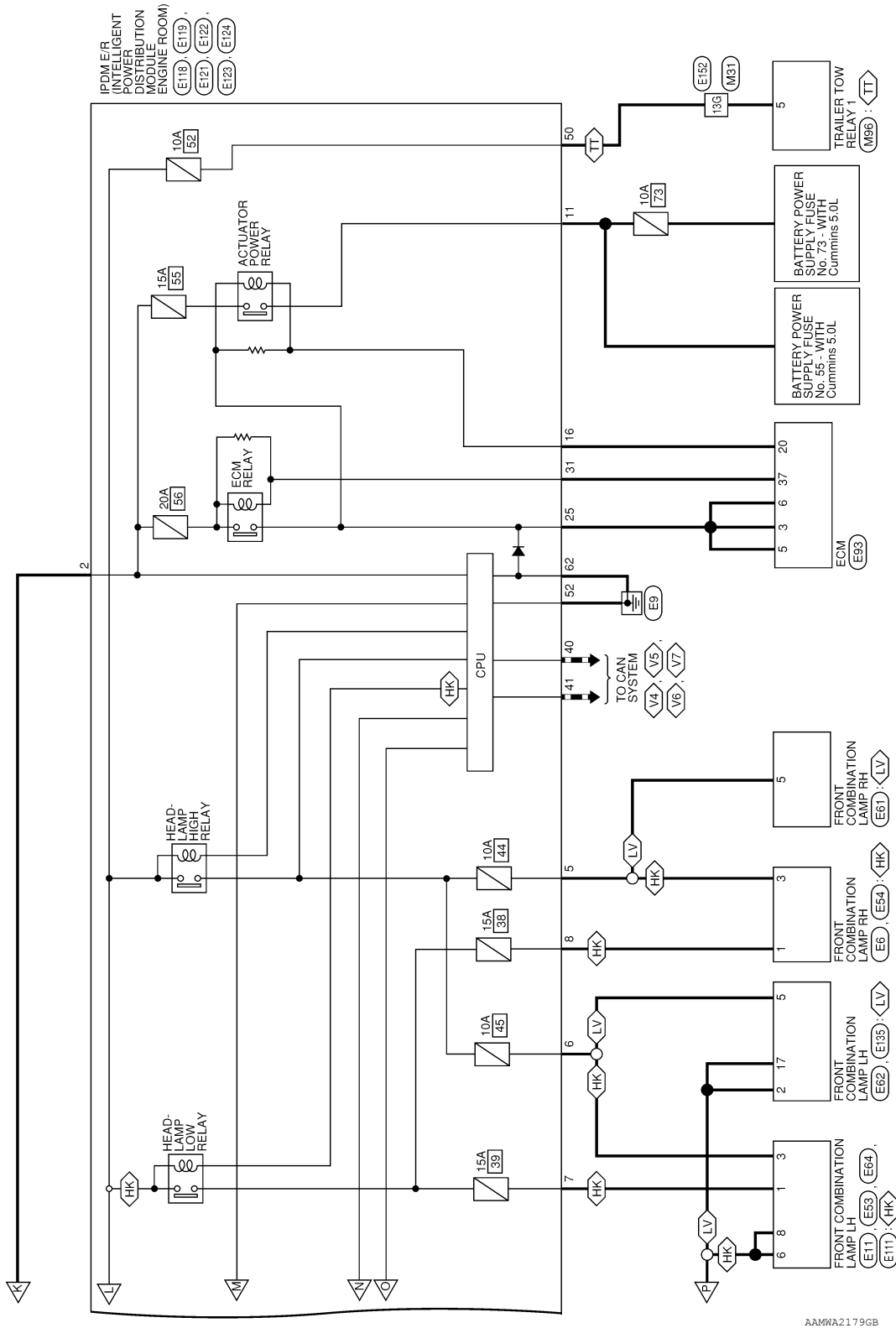
A
B
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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >



POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

BATTERY POWER SUPPLY CONNECTORS - WITH Cummins 5.0L

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



1	2	3	4	5
6	7	8	9	10
11	12			

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



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

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	53C	54C	55C	56C	57C	58C	59C	60C	61C	62C	63C	64C	65C	66C	67C	68C	69C	70C	71C	72C	73C	74C	75C	76C	77C	78C	79C	80C	81C	82C	83C	84C	85C	86C	87C	88C	89C	90C	91C	92C	93C	94C	95C	96C	97C	98C	99C	100C	101C	102C	103C	104C	105C	106C	107C	108C	109C	110C	111C	112C	113C	114C	115C	116C	117C	118C	119C	120C	121C	122C	123C	124C	125C	126C	127C	128C	129C	130C	131C	132C	133C	134C	135C	136C	137C	138C	139C	140C	141C	142C	143C	144C	145C	146C	147C	148C	149C	150C	151C	152C	153C	154C	155C	156C	157C	158C	159C	160C	161C	162C	163C	164C	165C	166C	167C	168C	169C	170C	171C	172C	173C	174C	175C	176C	177C	178C	179C	180C	181C	182C	183C	184C	185C	186C	187C	188C	189C	190C	191C	192C	193C	194C	195C	196C	197C	198C	199C	200C	201C	202C	203C	204C	205C	206C	207C	208C	209C	210C	211C	212C	213C	214C	215C	216C	217C	218C	219C	220C	221C	222C	223C	224C	225C	226C	227C	228C	229C	230C	231C	232C	233C	234C	235C	236C	237C	238C	239C	240C	241C	242C	243C	244C	245C	246C	247C	248C	249C	250C	251C	252C	253C	254C	255C	256C	257C	258C	259C	260C	261C	262C	263C	264C	265C	266C	267C	268C	269C	270C	271C	272C	273C	274C	275C	276C	277C	278C	279C	280C	281C	282C	283C	284C	285C	286C	287C	288C	289C	290C	291C	292C	293C	294C	295C	296C	297C	298C	299C	300C	301C	302C	303C	304C	305C	306C	307C	308C	309C	310C	311C	312C	313C	314C	315C	316C	317C	318C	319C	320C	321C	322C	323C	324C	325C	326C	327C	328C	329C	330C	331C	332C	333C	334C	335C	336C	337C	338C	339C	340C	341C	342C	343C	344C	345C	346C	347C	348C	349C	350C	351C	352C	353C	354C	355C	356C	357C	358C	359C	360C	361C	362C	363C	364C	365C	366C	367C	368C	369C	370C	371C	372C	373C	374C	375C	376C	377C	378C	379C	380C	381C	382C	383C	384C	385C	386C	387C	388C	389C	390C	391C	392C	393C	394C	395C	396C	397C	398C	399C	400C	401C	402C	403C	404C	405C	406C	407C	408C	409C	410C	411C	412C	413C	414C	415C	416C	417C	418C	419C	420C	421C	422C	423C	424C	425C	426C	427C	428C	429C	430C	431C	432C	433C	434C	435C	436C	437C	438C	439C	440C	441C	442C	443C	444C	445C	446C	447C	448C	449C	450C	451C	452C	453C	454C	455C	456C	457C	458C	459C	460C	461C	462C	463C	464C	465C	466C	467C	468C	469C	470C	471C	472C	473C	474C	475C	476C	477C	478C	479C	480C	481C	482C	483C	484C	485C	486C	487C	488C	489C	490C	491C	492C	493C	494C	495C	496C	497C	498C	499C	500C	501C	502C	503C	504C	505C	506C	507C	508C	509C	510C	511C	512C	513C	514C	515C	516C	517C	518C	519C	520C	521C	522C	523C	524C	525C	526C	527C	528C	529C	530C	531C	532C	533C	534C	535C	536C	537C	538C	539C	540C	541C	542C	543C	544C	545C	546C	547C	548C	549C	550C	551C	552C	553C	554C	555C	556C	557C	558C	559C	560C	561C	562C	563C	564C	565C	566C	567C	568C	569C	570C	571C	572C	573C	574C	575C	576C	577C	578C	579C	580C	581C	582C	583C	584C	585C	586C	587C	588C	589C	590C	591C	592C	593C	594C	595C	596C	597C	598C	599C	600C	601C	602C	603C	604C	605C	606C	607C	608C	609C	610C	611C	612C	613C	614C	615C	616C	617C	618C	619C	620C	621C	622C	623C	624C	625C	626C	627C	628C	629C	630C	631C	632C	633C	634C	635C	636C	637C	638C	639C	640C	641C	642C	643C	644C	645C	646C	647C	648C	649C	650C	651C	652C	653C	654C	655C	656C	657C	658C	659C	660C	661C	662C	663C	664C	665C	666C	667C	668C	669C	670C	671C	672C	673C	674C	675C	676C	677C	678C	679C	680C	681C	682C	683C	684C	685C	686C	687C	688C	689C	690C	691C	692C	693C	694C	695C	696C	697C	698C	699C	700C	701C	702C	703C	704C	705C	706C	707C	708C	709C	710C	711C	712C	713C	714C	715C	716C	717C	718C	719C	720C	721C	722C	723C	724C	725C	726C	727C	728C	729C	730C	731C	732C	733C	734C	735C	736C	737C	738C	739C	740C	741C	742C	743C	744C	745C	746C	747C	748C	749C	750C	751C	752C	753C	754C	755C	756C	757C	758C	759C	760C	761C	762C	763C	764C	765C	766C	767C	768C	769C	770C	771C	772C	773C	774C	775C	776C	777C	778C	779C	780C	781C	782C	783C	784C	785C	786C	787C	788C	789C	790C	791C	792C	793C	794C	795C	796C	797C	798C	799C	800C	801C	802C	803C	804C	805C	806C	807C	808C	809C	810C	811C	812C	813C	814C	815C	816C	817C	818C	819C	820C	821C	822C	823C	824C	825C	826C	827C	828C	829C	830C	831C	832C	833C	834C	835C	836C	837C	838C	839C	840C	841C	842C	843C	844C	845C	846C	847C	848C	849C	850C	851C	852C	853C	854C	855C	856C	857C	858C	859C	860C	861C	862C	863C	864C	865C	866C	867C	868C	869C	870C	871C	872C	873C	874C	875C	876C	877C	878C	879C	880C	881C	882C	883C	884C	885C	886C	887C	888C	889C	890C	891C	892C	893C	894C	895C	896C	897C	898C	899C	900C	901C	902C	903C	904C	905C	906C	907C	908C	909C	910C	911C	912C	913C	914C	915C	916C	917C	918C	919C	920C	921C	922C	923C	924C	925C	926C	927C	928C	929C	930C	931C	932C	933C	934C	935C	936C	937C	938C	939C	940C	941C	942C	943C	944C	945C	946C	947C	948C	949C	950C	951C	952C	953C	954C	955C	956C	957C	958C	959C	960C	961C	962C	963C	964C	965C	966C	967C	968C	969C	970C	971C	972C	973C	974C	975C	976C	977C	978C	979C	980C	981C	982C	983C	984C	985C	986C	987C	988C	989C	990C	991C	992C	993C	994C	995C	996C	997C	998C	999C	1000C
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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

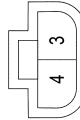
BATTERY POWER SUPPLY CONNECTORS - WITH Cummins 5.0L

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	BR	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	HIGH BEAM
4	B	GND

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.	E30
Connector Name	FUSIBLE LINK BOX LH (BATTERY)
Connector Type	E-LA8
Connector Color	-



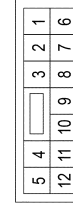
Terminal No.	Color of Wire	Signal Name
7	-	BATTERY

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

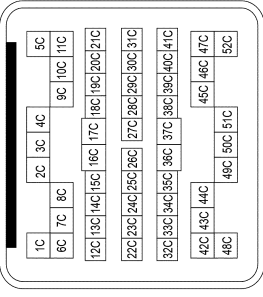
2	V	TO BODY HARNESS
3	L	TO BODY HARNESS
4	W	TO BODY HARNESS
5	R/G	TO BODY HARNESS
6	SB	TO BODY HARNESS
7	P	TO BODY HARNESS
8	L	TO BODY HARNESS
9	SHIELD	TO BODY HARNESS
10	B	TO BODY HARNESS
11	R	TO BODY HARNESS
12	BR	TO BODY HARNESS

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

BATTERY POWER SUPPLY CONNECTORS - WITH Cummins 5.0L

Connector No.	E41
Connector Name	WIRE TO WIRE
Connector Type	RK26M/GY-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	B/W	TO CHASSIS HARNESS
5C	B/Y	TO CHASSIS HARNESS
6C	Y	TO CHASSIS HARNESS
7C	G/R	TO CHASSIS HARNESS - (WITH CUMMINS 5.0L)
7C	R	TO CHASSIS HARNESS - (WITH VK56VD)
8C	B	TO CHASSIS HARNESS - (WITH CUMMINS 5.0L)
8C	O/B	TO CHASSIS HARNESS - (WITH VK56VD)
9C	W/L	TO CHASSIS HARNESS - (WITH CUMMINS 5.0L)
9C	SB	TO CHASSIS HARNESS - (WITH VK56VD)
10C	GR/R	TO CHASSIS HARNESS - (WITH CUMMINS 5.0L)
10C	GR	TO CHASSIS HARNESS - (WITH VK56VD)
11C	B	TO CHASSIS HARNESS - (WITH CUMMINS 5.0L)
11C	R/W	TO CHASSIS HARNESS - (WITH VK56VD)
12C	Y	TO CHASSIS HARNESS
13C	B	TO CHASSIS HARNESS
14C	B/G	TO CHASSIS HARNESS
15C	Y	TO CHASSIS HARNESS
16C	B	TO CHASSIS HARNESS
17C	V	TO CHASSIS HARNESS
18C	B/G	TO CHASSIS HARNESS
19C	L	TO CHASSIS HARNESS
20C	B/G	TO CHASSIS HARNESS
21C	B	TO CHASSIS HARNESS

AAMTA5106GB

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
48C	R/Y	TO CHASSIS HARNESS - (WITH CUMMINS 5.0L)
49C	V	TO CHASSIS HARNESS - (WITH VK56VD)
50C	B	TO CHASSIS HARNESS - (WITH CUMMINS 5.0L)
50C	B/Y	TO CHASSIS HARNESS - (WITH VK56VD)
51C	V	TO CHASSIS HARNESS - (WITH CUMMINS 5.0L)
51C	B	TO CHASSIS HARNESS - (WITH VK56VD)
52C	B	TO CHASSIS HARNESS - (WITHOUT FFV)
52C	L	TO CHASSIS HARNESS - (WITH FFV)
52C	V/W	TO CHASSIS HARNESS

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

BATTERY POWER SUPPLY CONNECTORS - WITH Cummins 5.0L

Connector No.	E52	Signal Name	TO ENGINE CONTROL NO. 2 HARNESS
Connector Name	WIRE TO WIRE	Signal Name	TO ENGINE CONTROL NO. 2 HARNESS
Connector Type	RK26FGY-RS20-X6	Signal Name	TO ENGINE CONTROL NO. 2 HARNESS
Connector Color	GRAY	Signal Name	TO ENGINE CONTROL NO. 2 HARNESS

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
Connector No.	E53	
Connector Name	FRONT COMBINATION LAMP LH (WITH HALOGEN HEADLAMPS)	
Connector Type	FHZ02FB	
Connector Color	BLACK	
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Connector No.	E59	Signal Name	TO ENGINE CONTROL NO. 2 HARNESS
Connector Name	INVERTER RELAY	Signal Name	TO ENGINE CONTROL NO. 2 HARNESS
Connector Type	24347_9F900	Signal Name	TO ENGINE CONTROL NO. 2 HARNESS
Connector Color	BLUE	Signal Name	TO ENGINE CONTROL NO. 2 HARNESS

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	MB118FGY
Connector Color	GRAY




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




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

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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	-



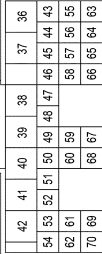

Terminal No.	Color of Wire	Signal Name
5	B	BATTERY

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	S/B	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



1
2

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



4
3

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



23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72

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	-	-

Terminal No.	Color of Wire	Signal Name
20	G	SMART POWER LSD
21	-	-
22	L/W	-
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 HIS
75	L/W	COOLANT SIGNAL
76	-	-
77	L	WIF SIGNAL
78	L	PPS2 SIGNAL
79	BR	PPS1 SIGNAL
80	W	PPS1 SUPPLY
81	B	PPS2 SUPPLY
82	-	-
83	BR	BATTERY
84	-	-
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

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	M08FBR-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	FHZ02FB
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	FHZ02FB
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 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



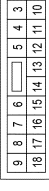

Terminal No.	Color of Wire	Signal Name
8	R/L	SIDE MARKER
9	B	GND

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




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	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)
11	O	ETC VB - (WITH VK56VD)
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 VK56VD)
17	L/W	IGN COIL - (WITH CUMMINS 5.0L)
17	W	IGN COIL - (WITH VK56VD)
18	-	-

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



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
19	W/R	STARTER MOTOR
20	L	FL 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



23	28	27	26	25
36	35	34	33	32
31	30	-	-	-

Terminal No.	Color of Wire	Signal Name
25	BR	ECM VB - (WITH CUMMINS 5.0L)
26	W	ECM VB - (WITH VK65VD)
27	V	O2 SENS - (WITH VK65VD)
28	R/L	PARKING RH
29	R/L	TAIL 1
30	Y	FR WIPER HI
31	-	-
32	L	ECM RLY CONT
33	R/L	ECM BAT - (WITH VK65VD)
34	R/W	PARKING LH
35	BR	TAIL 2
36	-	FR WIPER LO

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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	B/Y	FUEL PUMP - (WITH VK65VD)
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



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
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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

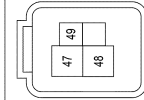
10	LG	YG CAN-L
11	-	-
12	-	-
13	P/B	LBL
14	-	-
15	-	-
16	-	-
17	R/B	STP2
18	GR	IGN 1
19	V	FR SENS-
20	SB	FL SENS+
21	R	RR SENS-
22	V	RL SENS+
23	-	-
24	-	-
25	-	-
26	-	-
27	P	CAN-L
28	-	-
29	-	-
30	-	-
31	-	-
32	-	-
33	LG	FR SENS+
34	LG	FL SENS-
35	BR	RR SENS+
36	P	RL SENS-
37	R/G	STP
38	-	-
39	G	VDC OFF
40	-	-
41	L	CAN-H
42	-	-
43	GW	HDC ON
44	-	-
45	-	-
46	W	STPO

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-SJZ2
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

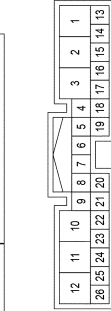
Connector No.	E135
Connector Name	FRONT COMBINATION LAMP LH (WITH LED HEADLAMPS)
Connector Type	RK02FBR
Connector Color	BROWN

H.S.



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

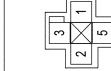
Connector No.	E142
Connector Name	TRANSFER CONTROL UNIT
Connector Type	TH20FW-TB6
Connector Color	WHITE



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	P	ADD POWER RLY - (WITHOUT XD)
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	BR	FR AXLE SW - (WITHOUT XD)
26	G	FR AXLE CONTROL - (WITHOUT XD)

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	RELAY OUTPUT

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	RELAY OUTPUT

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 2
3	R	BATTERY
5	G	RELAY OUTPUT

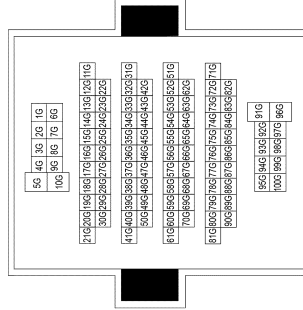
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POWER SUPPLY ROUTING CIRCUIT

< 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
1G	G	TO MAIN HARNESS
2G	BR	TO MAIN HARNESS
3G	W/B	TO MAIN HARNESS
4G	BR/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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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 - (WITH CUMMINS 5.0L)
31G	P	TO MAIN HARNESS - (WITH VK56VD)
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

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	-



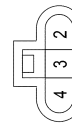
Terminal No.	Color of Wire	Signal Name
5	B	BATTERY

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	CHG
3	GY	BATTERY
4	-	-

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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

BATTERY POWER SUPPLY CONNECTORS - WITH Cummins 5.0L

Connector No.	F209
Connector Name	WIRE TO WIRE
Connector Type	RK26M/GY-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/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

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.	Color of Wire	Signal Name
8	B	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
10	-	-

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

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

Terminal No.	Color of Wire	Signal Name
1N	-	-
2N	W	BATTERY
3N	W	BLOWER FAN RELAY OUT
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

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	RELAY OUTPUT

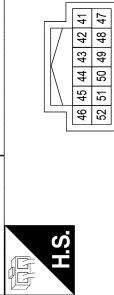
POWER SUPPLY ROUTING CIRCUIT

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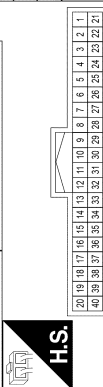
BATTERY POWER SUPPLY CONNECTORS - WITH Cummins 5.0L

39	B/R	SHIFT N/P
40	-	-

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



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



Terminal No.	Color of Wire	Signal Name
1	G	ENG START SW NO ESCL
2	-	-
3	R	AIL POWER SUPPLY 5V
4	W/R	AIL 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	P/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	P/G	REVERSE SW
36	W/B	HAZARD SW
37	-	-
38	-	-

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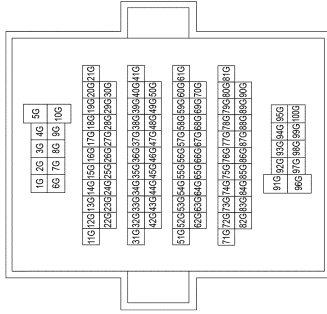
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POWER SUPPLY ROUTING CIRCUIT

< 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



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	-	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/V	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

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



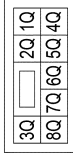
Terminal No.	Color of Wire	Signal Name
1S	W	BATTERY

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
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Terminal No.	Color of Wire	Signal Name
1Q	-	-
2Q	OIL	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

1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18
19								20



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

2T	1T
6T	5T
4T	3T



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	L02FB-MC
Connector Color	BLACK

1	2
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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

4M	3M	2M	1M
10M	9M	8M	7M
6M	5M	4M	3M



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

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



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	-	-
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-LC
Connector Color	BROWN

2	1
7	5
6	3



Terminal No.	Color of Wire	Signal Name
1	G	GROUND
2	R	REV LAMP RELAY CONTROL
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-FHA6-SA
Connector Color	WHITE

137	136	135	134	133	132	131	130	129
143	142	141	140	139	138			



Terminal No.	Color of Wire	Signal Name
129	R/G	BATTERY SAVER OUT
130	L/G	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	L/G	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

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

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



H.S.

Terminal No.	Color of Wire	Signal Name
1	B	GROUND
2	L	RELAY CONTROL
3	R	RELAY OUTPUT
5	W	BATTERY

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

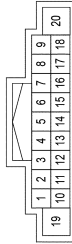


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Terminal No.	Color of Wire	Signal Name
1	L	IGNITION
2	B	GROUND
3	R	IGNITION
4	-	-
5	BR	BATTERY

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	LW	FR SP LH+
3	LR	FR SP LH-
4	SB	RR SP LH+
5	BY	RR SP LH-
6	-	-
7	R	ACC
8	L	CAN-H
9	L	ILL (+)
10	-	-
11	WB	FR SP RH+
12	LB	FR SP RH-
13	OL	RR SP RH+
14	RL	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
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1	B	GROUND
2	GR	IGNITION
3	W	RELAY OUTPUT
5	R	BATTERY
6	G	RELAY OUTPUT
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	GROUND
2	GR	IGNITION
3	W	RELAY OUTPUT
5	R	BATTERY
6	G	RELAY OUTPUT
7	P	BATTERY

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

H.S.



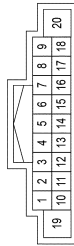
Terminal No.	Color of Wire	Signal Name
1	P/Y	CARGO BED LAMP
2	G	BATTERY
3	LG	ACCESSORY
5	G	BATTERY

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	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	RR SP RH-
13	O/L	RR SP RH+
14	R/L	RR SP RH-
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
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1	B	GROUND
2	BR/W	TRAILER BRAKE ILLUMINATION +
3	L	ILLUMINATION -
4	GR	IGNITION
5	G	BATTERY
7	R	STOP LAMP OUT
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	GROUND
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	GROUND
2	R/G	STOP LAMP SW
3	BR/W	TRAILER BRAKE ILLUMINATION +
4	L	ILLUMINATION -
5	R	BATTERY
6	-	-

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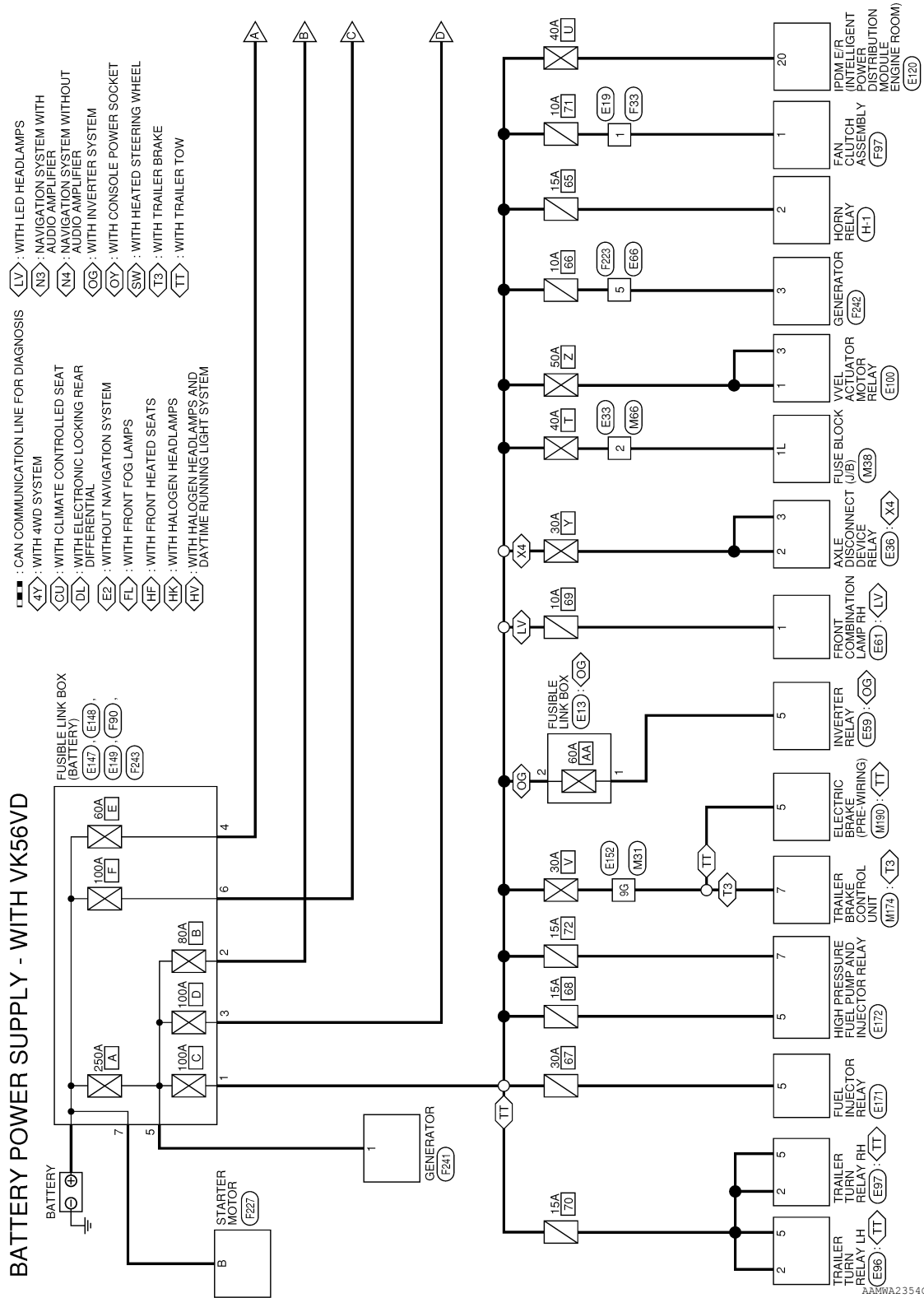
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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - BATTERY POWER SUPPLY - WITH VK56VD -

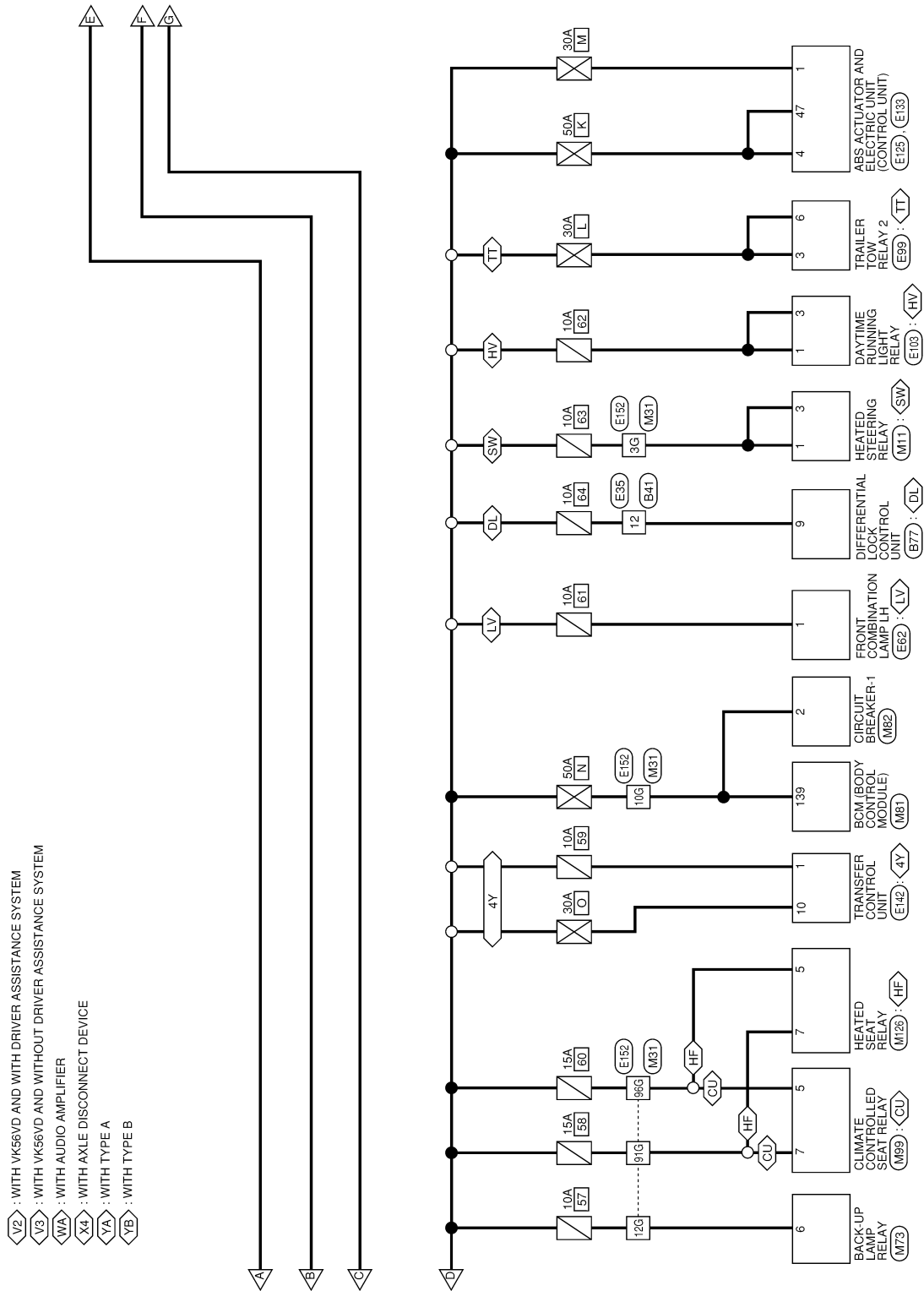
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POWER SUPPLY ROUTING CIRCUIT

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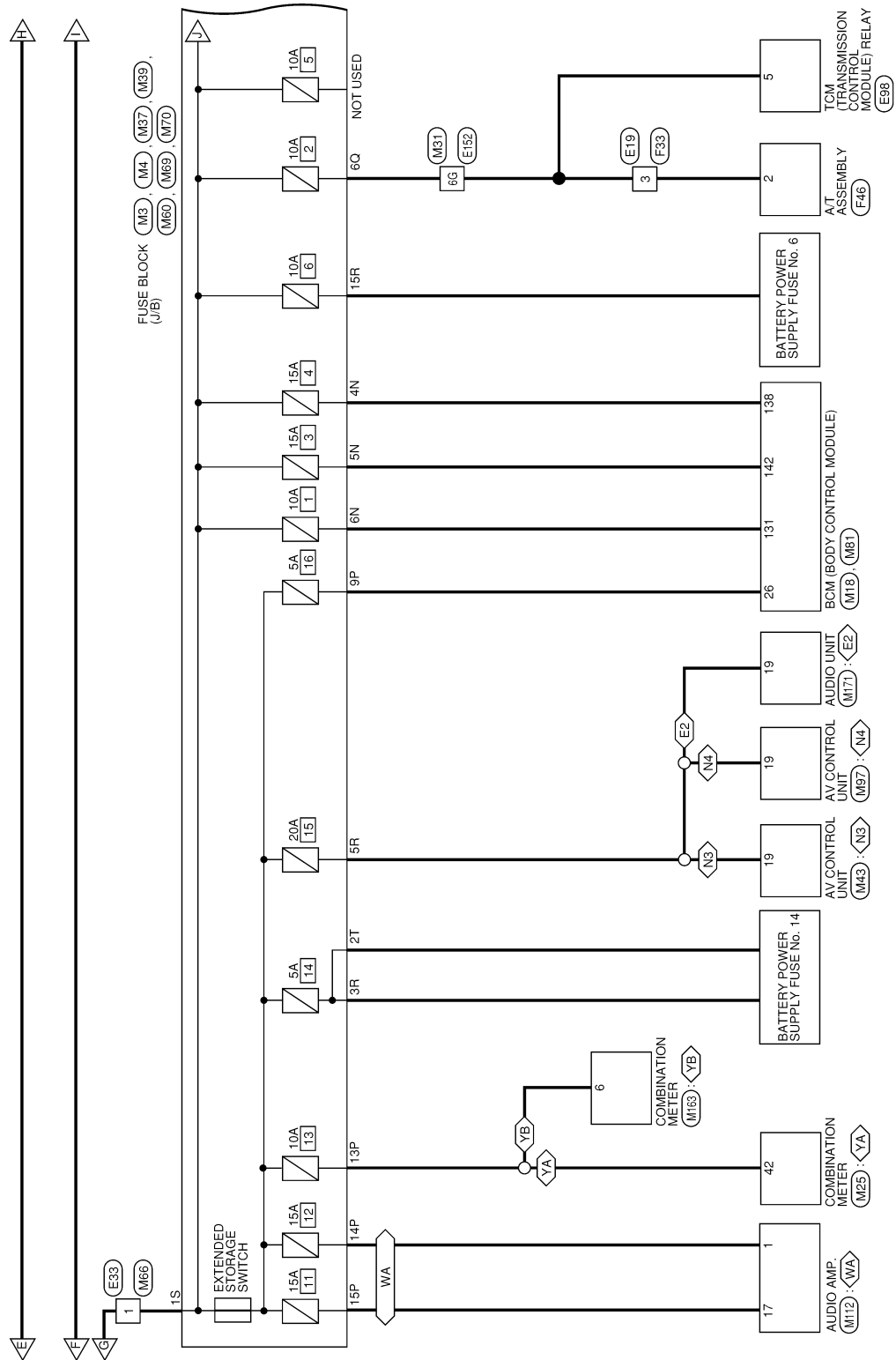


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POWER SUPPLY ROUTING CIRCUIT

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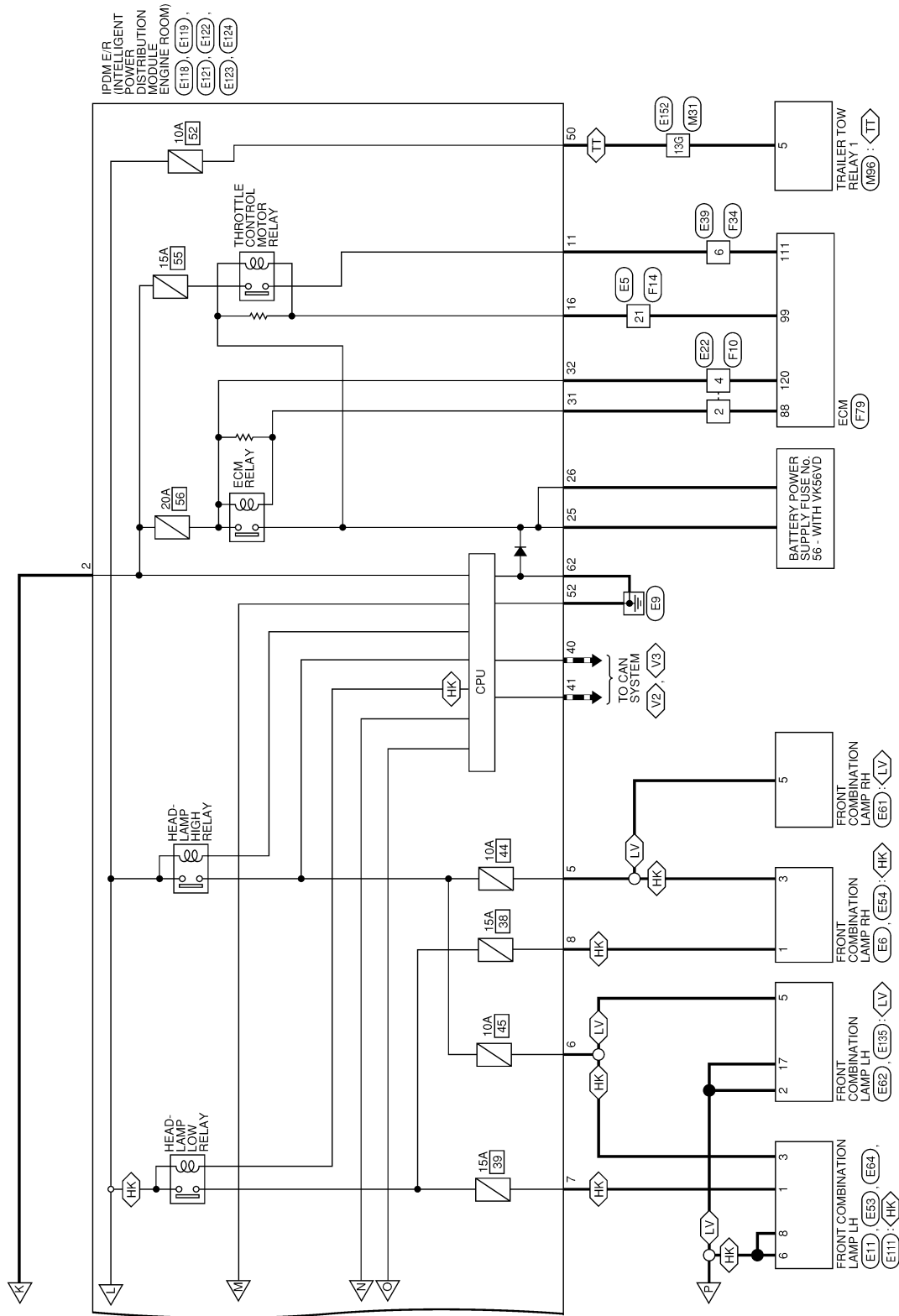
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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >



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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

1	2	3	4	5
6	7	8	9	10
11	12			

H.S.

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	P/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

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

H.S.

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

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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

1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24

H.S.

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

4	3
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H.S.

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

4	3
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H.S.

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

1	2
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H.S.

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

1	2	3	4
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H.S.

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

POWER SUPPLY ROUTING CIRCUIT

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BATTERY POWER SUPPLY CONNECTORS - WITH VK56VD

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

1	2	3	4
5	6	7	8

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



5	4		3	2	1	
12	11	10	9	8	7	6

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	L	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

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

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.	E36
Connector Name	AXLE DISCONNECT DEVICE RELAY
Connector Type	MS02FL-M2-LC
Connector Color	BLUE

3	5	1
2	4	1

Terminal No.	Color of Wire	Signal Name
1	P	ADD POWER RLY
2	R	BATTERY
3	R	BATTERY
5	Y	RELAY OUTPUT

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

1	2	3	4
5	6	7	8

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

2	1
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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

2	1
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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

3	1	2
4	5	

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

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POWER SUPPLY ROUTING CIRCUIT

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BATTERY POWER SUPPLY CONNECTORS - WITH VK56VD

Connector No.	E61
Connector Name	FRONT COMBINATION LAMP RH (WITH LED HEADLAMPS)
Connector Type	MBA16FGY
Connector Color	GRAY



4	L	HEADLAMP LO
5	G	HEADLAMP HI
6	B	GND
7	B	GND
8	W	LED HLAMP LH
9	-	-
10	-	-
11	-	-
12	-	-
13	-	-
14	-	-
15	-	-
16	-	-

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 HLAMP
9	-	-
10	-	-
11	-	-
12	-	-
13	-	-
14	-	-
15	-	-
16	-	-

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



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

Connector No.	E66
Connector Name	WIRE TO WIRE
Connector Type	RS06MGY
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
1	R	IGNITION
2	R/L	PARK POWER
3	BR	DAYTIME RUNNING LAMP

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

5	Y/B	TO ENGINE ROOM SUB-HARNESS
6	L/Y	TO ENGINE ROOM SUB-HARNESS

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

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.	E98
Connector Name	TCM (TRANSMISSION CONTROL MODULE) RELAY
Connector Type	MS02FL-M2-LC
Connector Color	BLUE



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

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



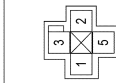
Terminal No.	Color of Wire	Signal Name
1	G	RELAY CONT
2	B	GND
3	Y	BATTERY
5	W/L	POWER (7 PIN)
6	Y	BATTERY
7	W/L	POWER (7 PIN)

POWER SUPPLY ROUTING CIRCUIT

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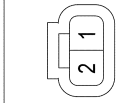
BATTERY POWER SUPPLY CONNECTORS - WITH VK56VD

Connector No.	E100
Connector Name	W/EL ACTUATOR MOTOR RLY
Connector Type	24347_9F900
Connector Color	BLUE



H.S.

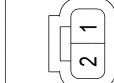
Connector No.	E102
Connector Name	FRONT FOG LAMP ASSEMBLY RH
Connector Type	FHZ02FB
Connector Color	BLACK



H.S.

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

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/L LH
2	B	GND

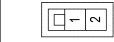
Connector No.	E111
Connector Name	FRONT COMBINATION LAMP LH (WITH HALOGEN HEADLAMPS)
Connector Type	RK02FBR
Connector Color	BROWN



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/L LH
10	-	-
11	P	ETC VB - (WITH CUMMINS 5.0L)
11	O	ETC VB - (WITH VK56VD)
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 VK56VD)
17	L/W	IGN COIL - (WITH CUMMINS 5.0L)
17	W	IGN COIL - (WITH VK56VD)
18	-	-

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POWER SUPPLY ROUTING CIRCUIT

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BATTERY POWER SUPPLY CONNECTORS - WITH VK56VD

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

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
19	W/R	STARTER MOTOR
20	L	FL IGSW
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



23	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 VK56VD)
27	V	O2 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	ECM BAT - (WITH VK56VD)
34	R/W	PARKING LH
35	BR	TAIL 2
36	-	FR WIPER LO

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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	B/Y	FUEL PUMP - (WITH VK56VD)
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



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
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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

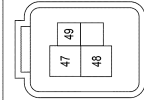
10	LG	YG CAN-L
11	-	-
12	-	-
13	P/B	LBL
14	-	-
15	-	-
16	-	-
17	R/B	STP2
18	GR	IGN 1
19	V	FR SENS-
20	SB	FL SENS+
21	R	RR SENS-
22	V	RL SENS+
23	-	-
24	-	-
25	-	-
26	-	-
27	P	CAN-L
28	-	-
29	-	-
30	-	-
31	-	-
32	-	-
33	LG	FR SENS+
34	LG	FL SENS-
35	BR	RR SENS+
36	P	RL SENS-
37	R/G	STP
38	-	-
39	G	VDC OFF
40	-	-
41	L	CAN-H
42	-	-
43	GW	HDC ON
44	-	-
45	-	-
46	W	STPO

POWER SUPPLY ROUTING CIRCUIT

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BATTERY POWER SUPPLY CONNECTORS - WITH VK56VD

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

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

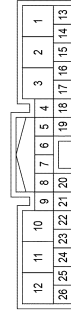
H.S.



Terminal No.	Color of Wire	Signal Name
17	P/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	P	ADD POWER RLY - (WITHOUT XD)
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	BR	FR AXLE SW - (WITHOUT XD)
26	G	FR AXLE CONTROL - (WITHOUT XD)

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
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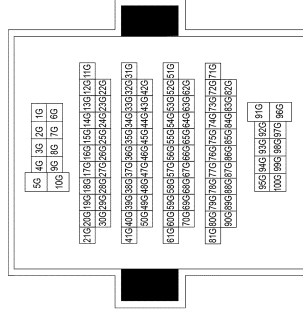
6	W	BATTERY
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POWER SUPPLY ROUTING CIRCUIT

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BATTERY POWER SUPPLY CONNECTORS - WITH VK56VD

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	BR/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/V	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	W	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



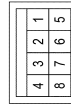
Terminal No.	Color of Wire	Signal Name
1	B	GND
2	V	IGNITION
3	R	VINUT A
5	G/W	BATTERY

Connector No.	E172
Connector Name	HIGH PRESSURE FUEL PUMP AND INJECTOR RELAY
Connector Type	M06FBR-R-LC
Connector Color	BROWN



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

Connector No.	F10
Connector Name	WIRE TO WIRE
Connector Type	M06FBR-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	L/G	TO ENGINE ROOM HARNESS
6	L/Y	TO ENGINE ROOM HARNESS
7	W/L	TO ENGINE ROOM HARNESS
8	R	TO ENGINE ROOM HARNESS

POWER SUPPLY ROUTING CIRCUIT

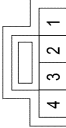
< WIRING DIAGRAM >

BATTERY POWER SUPPLY CONNECTORS - WITH VK56VD

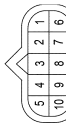
Connector No.	F14
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE




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

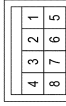
Connector No.	F46
Connector Name	A/T ASSEMBLY (WITH VK56VD)
Connector Type	RK10FG
Connector Color	GREEN

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	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

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

56	61	66	71	76	81	86	91	96	101	106	111	116
57	62	67	72	77	82	87	92	97	102	107	112	117
58	63	68	73	78	83	88	93	98	103	108	113	118
59	64	69	74	79	84	89	94	99	104	109	114	119
60	65	70	75	80	85	90	95	100	105	110	115	120

Terminal No.	Color of Wire	Signal Name
56	V	MULTI-WAY CONTROL VALVE POWER SUPPLY
57	R	MULTI-WAY CONTROL VALVE MOTOR (1)
58	B	MULTI-WAY CONTROL VALVE MOTOR (2)
59	B	HIGH PRESSURE FUEL PUMP (H)
60	W	HIGH PRESSURE FUEL PUMP (LO)
61	BR	MULTI-WAY CONTROL VALVE POSITION SENSOR
62	BR	PNP SIGNAL
63	LG/B	SENSOR GROUND
64	SHIELD	SHIELD
65	W	ENGINE COOLANT TEMPERATURE SENSOR 2
66	P	CRANKSHAFT 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

AAMIA5128GB

86	L/G	LIN (WITH ACTIVE GRILLE SHUTTER)
87	-	-
88	L/G	ECM RELAY (SELF SHUT-OFF)
89	-	-
90	BR/W	WEL ACTUATOR MOTOR RELAY ABORT SIGNAL (VEL CONTROL MODULE)
91	L/B	IGNITION SIGNAL NO. 2
92	B/Y	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	-	-
99	V/R	THROTTLE CONTROL MOTOR RELAY
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	EWAS 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	GNDA-OTHER
5	BR	EFANREV
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 >

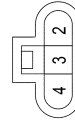
BATTERY POWER SUPPLY CONNECTORS - WITH VK56VD

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



Terminal No.	Color of Wire	Signal Name
1	B	BATTERY

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



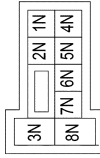
Terminal No.	Color of Wire	Signal Name
2	BR	CHG
3	Y/B	BATTERY
4	Y	ALT-C

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



Terminal No.	Color of Wire	Signal Name
		BATTERY

5	B	BATTERY
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Terminal No.	Color of Wire	Signal Name
1N	-	-
2N	W	BATTERY
3N	W	BLOWER FAN RELAY OUT
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

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	RELAY OUTPUT

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



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

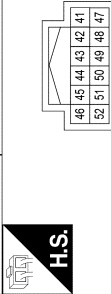
15	-	-
16	-	-
17	P	GND RF A/L
18	V	SECURITY INDICATOR
19	-	-
20	R	SHIFT P
21	R/W	STEP LAMP CONT
22	-	-
23	Y	AIRCON SW
24	-	-
25	W	BRAKE SW FUSE
26	L	SHORT IN PIN INPUT
27	R/G	BRAKE SW LAMP
28	-	-
29	W	BLOWER FAN SW
30	P	DR DOOR LOCK STATUS
31	-	-
32	Y	REAR DEFOGGER SW
33	-	-
34	-	-
35	R/G	REVERSE SW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

POWER SUPPLY ROUTING CIRCUIT

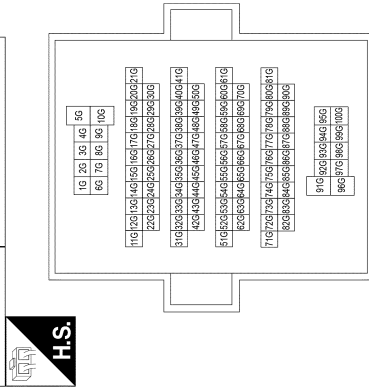
< WIRING DIAGRAM >

BATTERY POWER SUPPLY CONNECTORS - WITH VK56VD

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



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



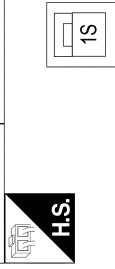
Terminal No.	Color of Wire	Signal Name
41	W	IGN
42	R	BAT
43	Y/V	FUEL SENSOR GND
44	GR	ILL CONT OUTPUT
45	P	CAN-L
46	L	CAN-H
47	B	G1
48	BR/Y	FUEL SENSOR
49	-	-
50	-	-
51	LG	M CAN-L
52	SB	M CAN-H

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	EG	TO ENGINE ROOM HARNESS
59G	EG	TO ENGINE ROOM HARNESS
60G	EG	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	EG	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	EG	TO ENGINE ROOM HARNESS
78G	P	TO ENGINE ROOM HARNESS
79G	-	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/V	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

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

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



H.S.

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

H.S.

3Q	2Q	1Q
8Q	7Q	6Q
5Q	4Q	3Q

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

H.S.

1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18
19	20							

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

H.S.

2T	1T
6T	5T
4T	3T

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	L02FB-MC
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	L	TO ENGINE ROOM HARNESS

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

H.S.

4M	3M	2M	1M
10M	9M	8M	7M
6M	5M		

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

H.S.

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

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	-	-
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.

2	1
7	5
6	3

Terminal No.	Color of Wire	Signal Name
1	G	GROUND
2	R	REV LAMP RELAY CONTROL
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



137	138	135	134	133	132	131	130	129	128
143	142	141	140	139	138				

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



1	2
---	---

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



3	5
2	1

Terminal No.	Color of Wire	Signal Name
1	B	GROUND
2	L	RELAY CONTROL
3	R	RELAY OUTPUT
5	W	BATTERY

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



3	5
2	1

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



1	2	3	4	5	6	7	8	9	20
19	10	11	12	13	14	15	16	17	18

Terminal No.	Color of Wire	Signal Name
1	-	-
2	L/W	FR SP LH+
3	L/R	FR SP LH-
4	SB	FR SP LH+
5	B/Y	FR 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



2	1
7	5
6	3

Terminal No.	Color of Wire	Signal Name
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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



4	3	2	1
20	19	18	17

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



2	1
7	5
6	3

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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J
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L
PG
N
O
P

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

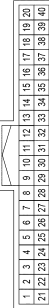


H.S.

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

H.S.



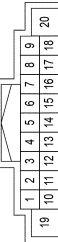
Terminal No.	Color of Wire	Signal Name
1	B	GND (ILL)
2	B	GND (CIRCUIT)
3	B	GND (POWER)
4	-	-
5	-	-
6	R	BAT
7	V	SECURITY
8	W	IGN
9	BG	AS BELT SW (W/O ODS)
10	LG	TOW MODE SW
11	BR	CHG
12	B	SATELLITE SW GND
13	B	STRG SW GND
14	R	ACC
15	W	OUTSIDE TEMP SENSOR
16	O	AIR BAG
17	-	-
18	P	TRIP RESET SW

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19	-	-	OUTSIDE TEMP GND
20	R	-	-
21	-	-	-
22	P	-	STRG SW A
23	R	-	STRG SW B
24	W	-	WASHER 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

H.S.

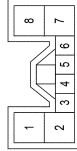


Terminal No.	Color of Wire	Signal Name
1	-	-
2	L/W	FR SP LH+
3	L/R	FR SP LH-
4	SB	RR SP LH+
5	B/Y	RR SP LH-
6	P	STRG SW A (WITH TYPE B METER)
7	R	ACC
8	GR	ILL (-)
9	L	ILL (+)
10	-	-
11	W/B	FR SP RH+
12	L/B	RR SP RH-
13	O/L	RR SP RH+
14	R/L	RR SP RH-

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

H.S.



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

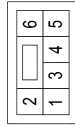
H.S.



Terminal No.	Color of Wire	Signal Name
1	B	GROUND
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

H.S.



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
6	-	-

POWER SUPPLY ROUTING CIRCUIT

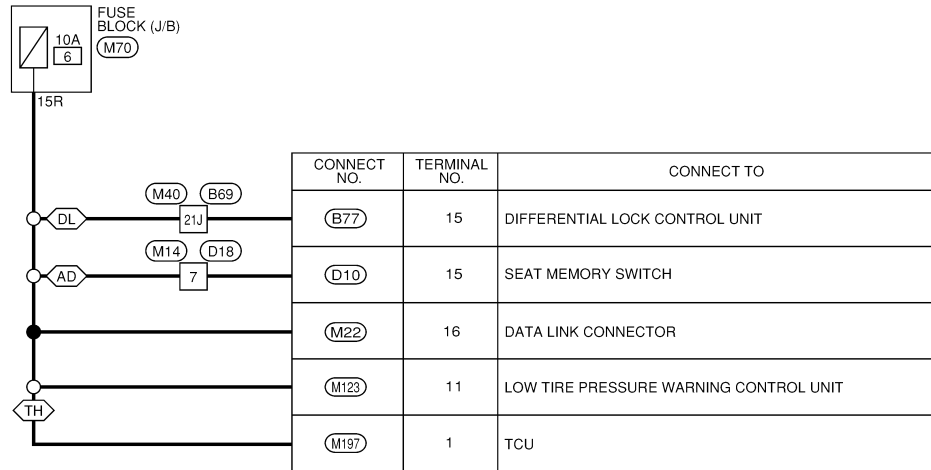
< WIRING DIAGRAM >

Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 6 -

INFOID:000000014388640

BATTERY POWER SUPPLY FUSE No. 6

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



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POWER SUPPLY ROUTING CIRCUIT

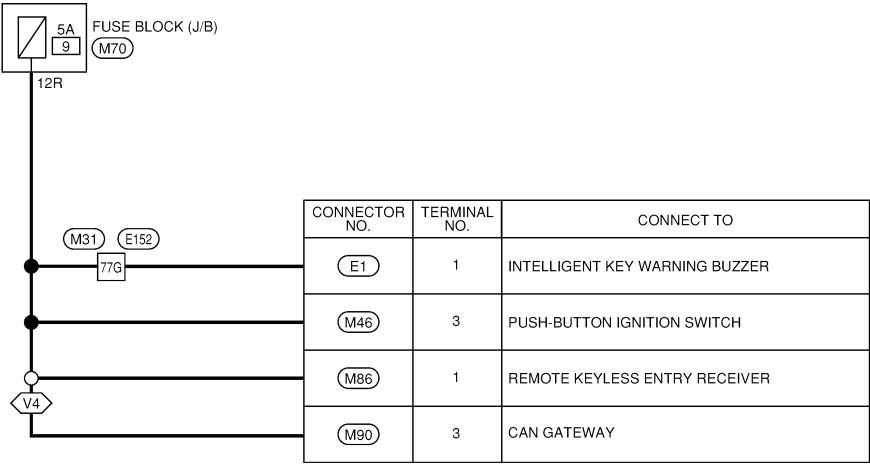
< WIRING DIAGRAM >

Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 9 -

INFOID:000000014388641

BATTERY POWER SUPPLY FUSE No. 9

V4 : CAN GATEWAY SYSTEM - WITH Cummins 5.0L



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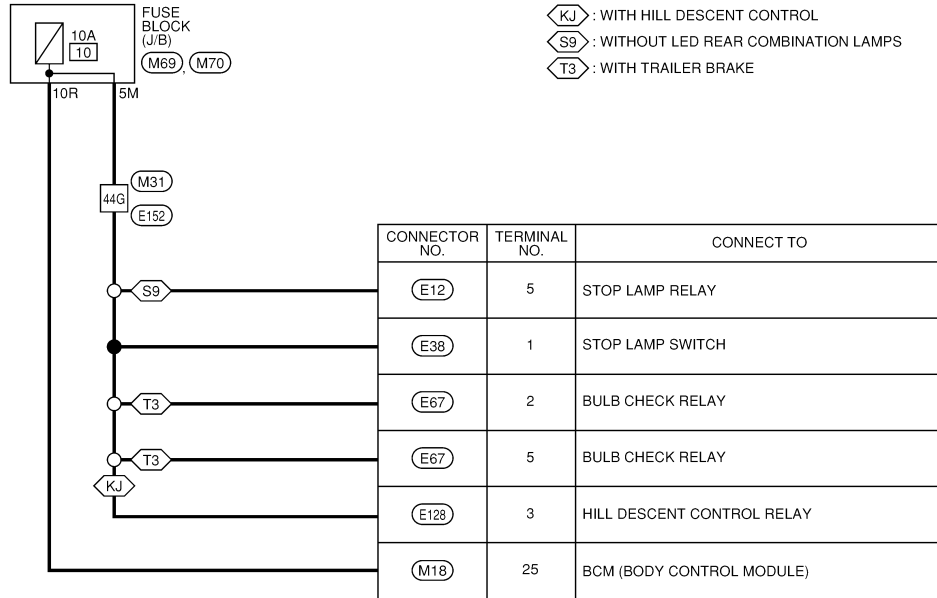
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 10 -

INFOID:000000014388642

BATTERY POWER SUPPLY FUSE No. 10



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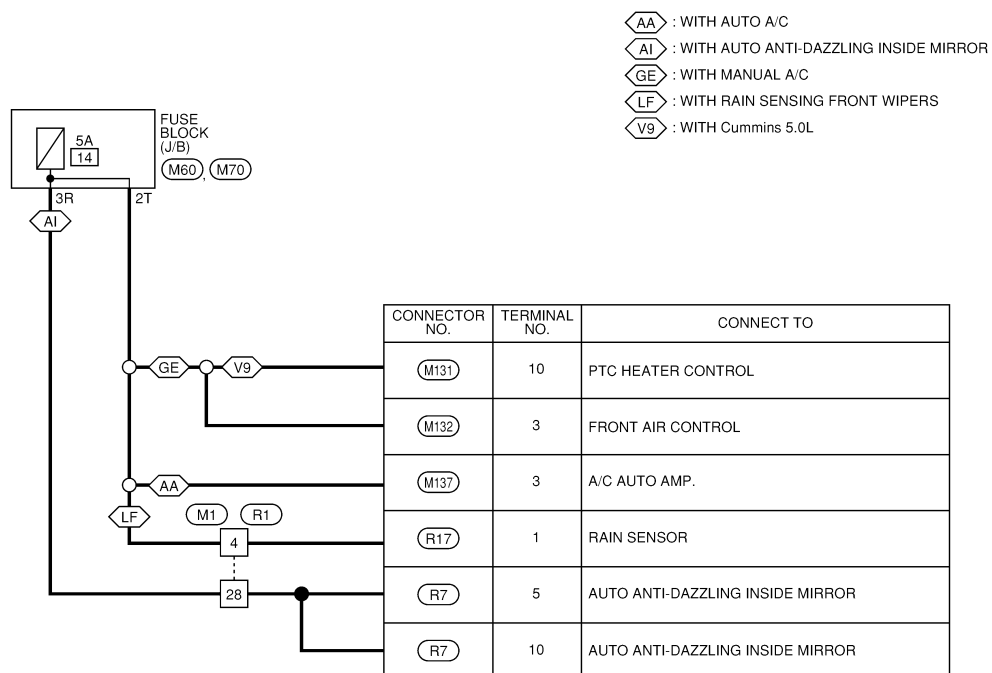
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 14 -

INFOID:000000014388643

BATTERY POWER SUPPLY FUSE No. 14



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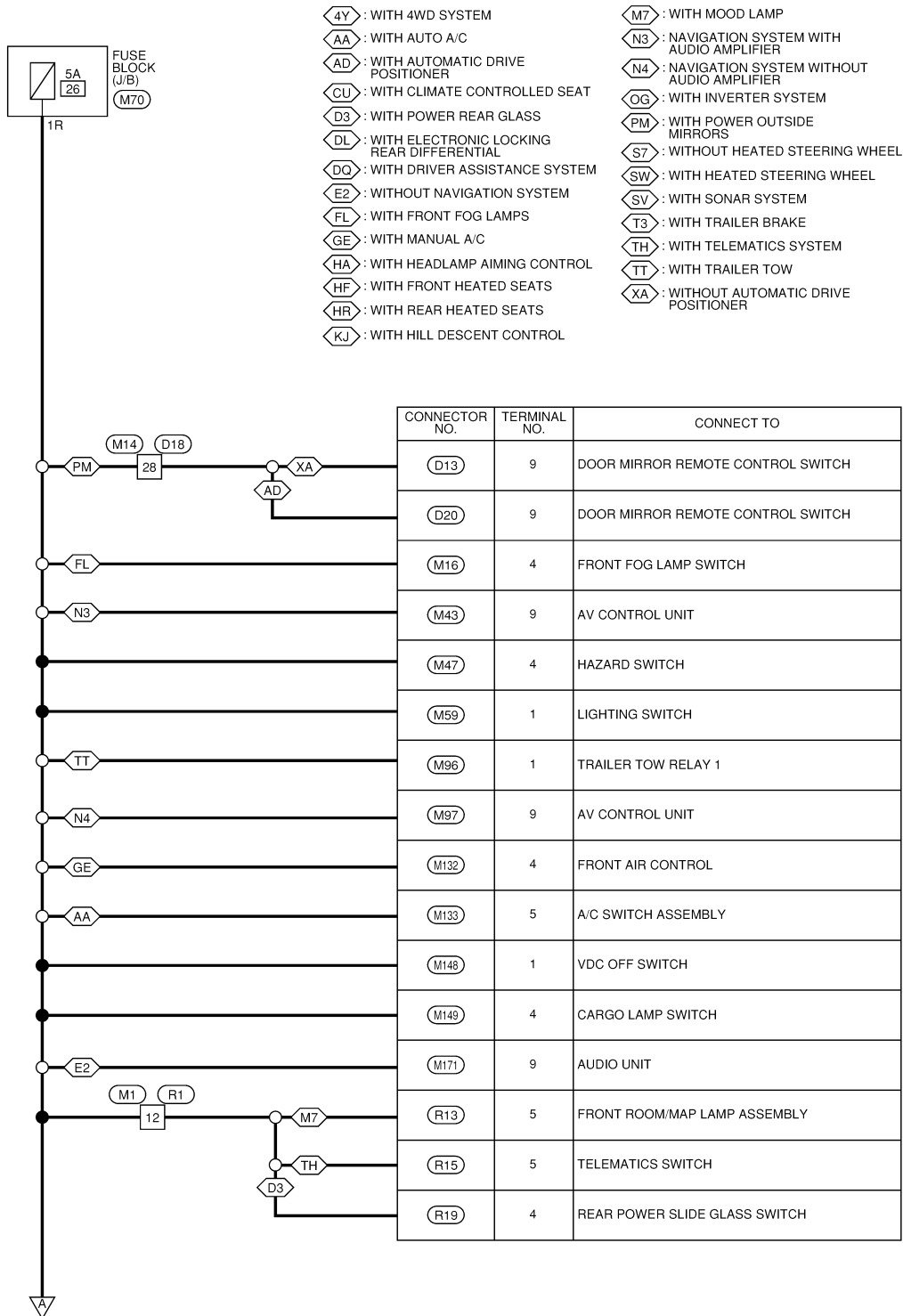
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 26 -

INFOID:000000014388644

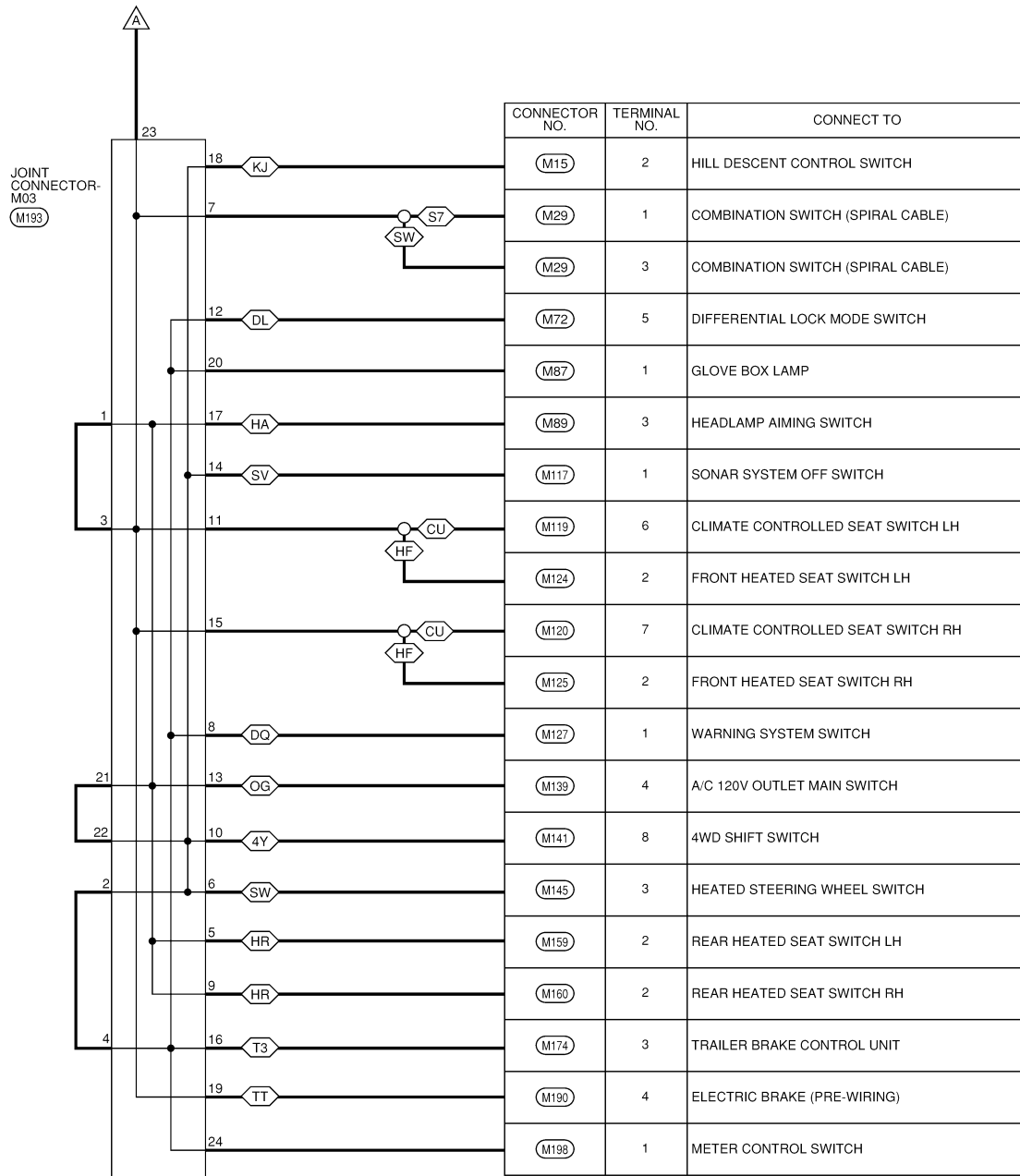
BATTERY POWER SUPPLY FUSE No. 26



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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >



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POWER SUPPLY ROUTING CIRCUIT

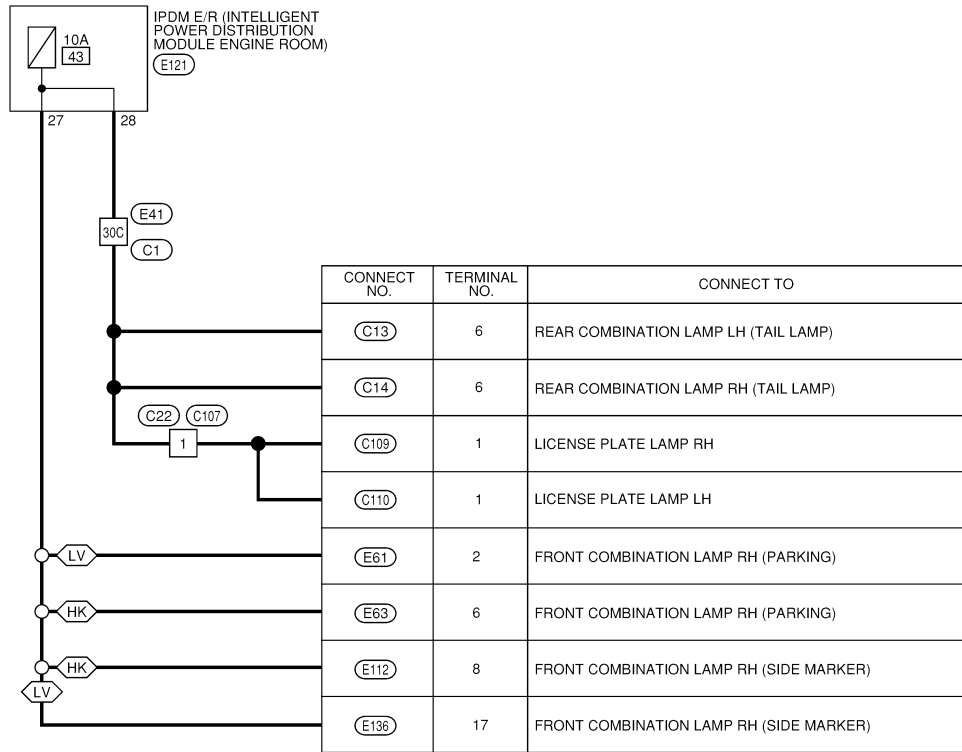
< WIRING DIAGRAM >

Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 43 -

INFOID:0000000014388645

BATTERY POWER SUPPLY FUSE No. 43

HK : WITH HALOGEN HEADLAMPS
LV : WITH LED HEADLAMPS



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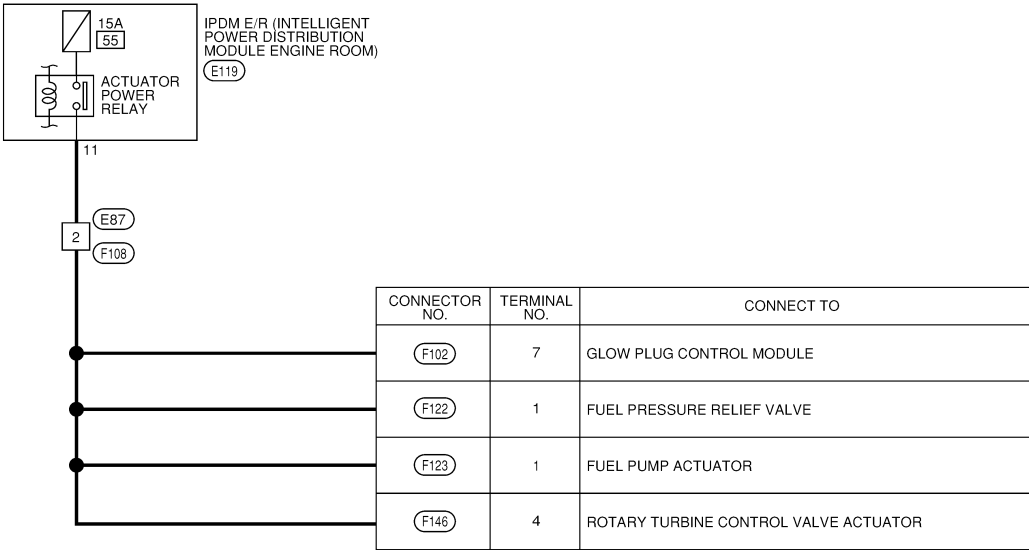
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

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

INFOID:0000000014388646

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



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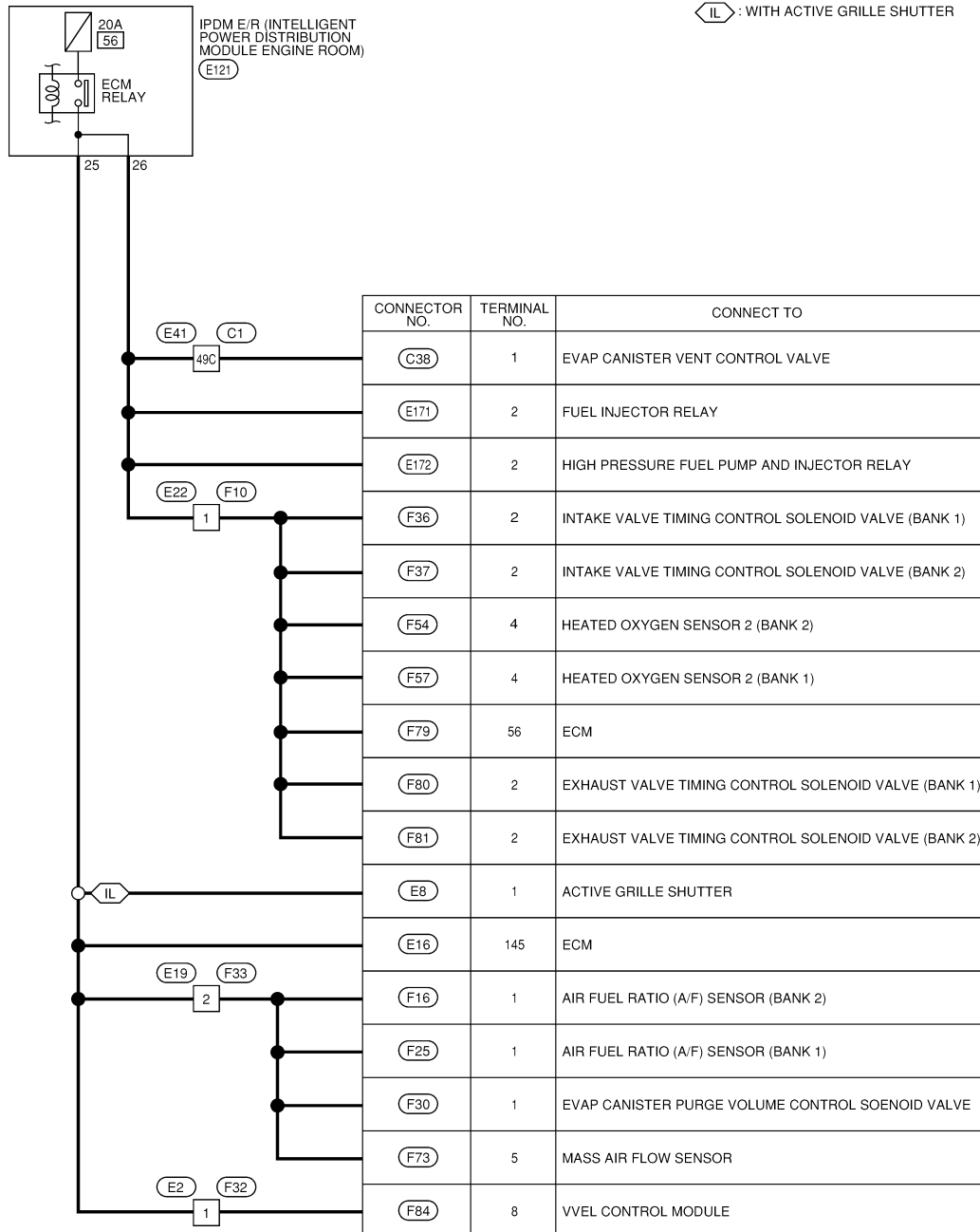
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

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

INFOID:0000000014388647

BATTERY POWER SUPPLY FUSE No. 56 - WITH VK56VD



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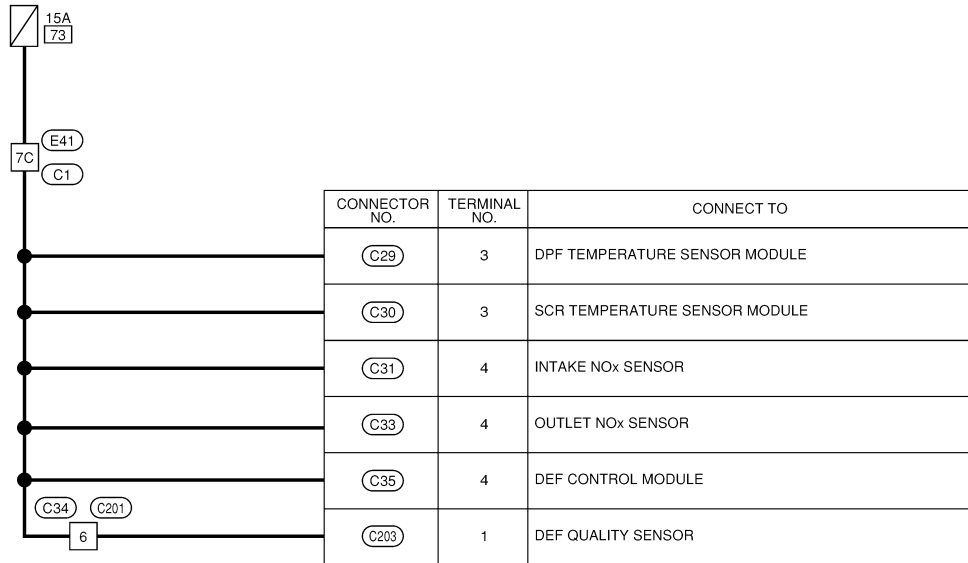
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

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

INFOID:0000000014388648

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



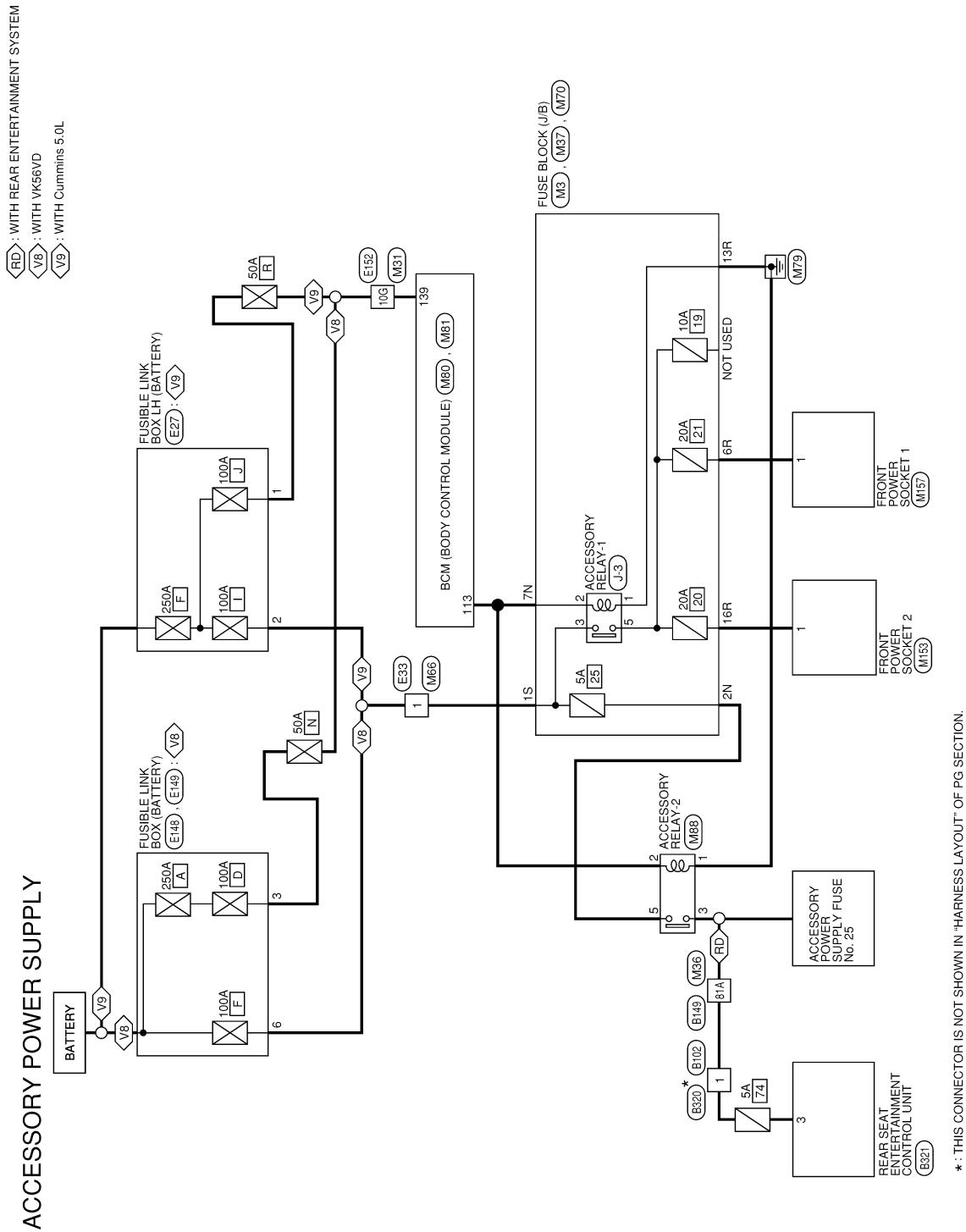
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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - ACCESSORY POWER SUPPLY -

INFOID:000000014388649



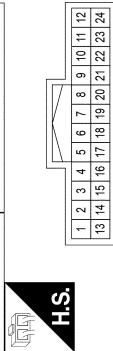
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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

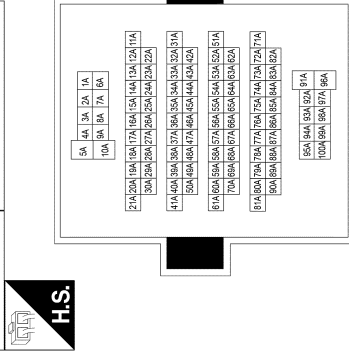
ACCESSORY POWER SUPPLY CONNECTORS

Connector No.	B102
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-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	SHIELD	TO FRONT SEAT RH HARNESS
22	L	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	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	R	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/V	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	BR	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	TH24MW
Connector Color	WHITE



12	11	10	9	8	7	6	5	4	3	2	1
24	23	22	21	20	19	18	17	16	15	14	13

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

Connector No.	B321
Connector Name	REAR SEAT ENTERTAINMENT CONTROL UNIT
Connector Type	99U8VZ060-SP
Connector Color	WHITE



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

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



1	2
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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



1	2
---	---

Terminal No.	Color of Wire	Signal Name
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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



4	3
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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	-



6

Terminal No.	Color of Wire	Signal Name
6	W	BATTERY

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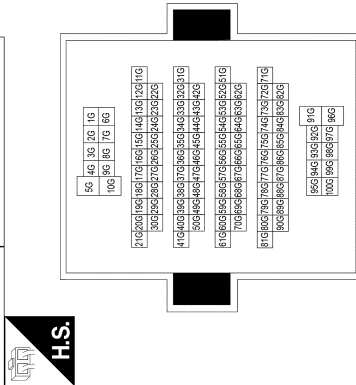
A
B
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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

ACCESSORY POWER SUPPLY CONNECTORS

Connector No.	E152
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4
Connector Color	WHITE

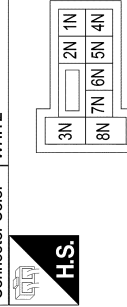


Terminal No.	Color of Wire	Signal Name
1G	G	TO MAIN HARNESS
2G	B/R	TO MAIN HARNESS
3G	W/B	TO MAIN HARNESS
4G	BR/W	TO MAIN HARNESS
5G	BR	TO MAIN HARNESS
6G	P	TO MAIN HARNESS - (WITH VCS6VD)
6G	R/W	TO MAIN HARNESS - (WITH CUMMINS 5.0L)
7G	Y	TO MAIN HARNESS
8G	G	TO MAIN HARNESS
9G	R	TO MAIN HARNESS
10G	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

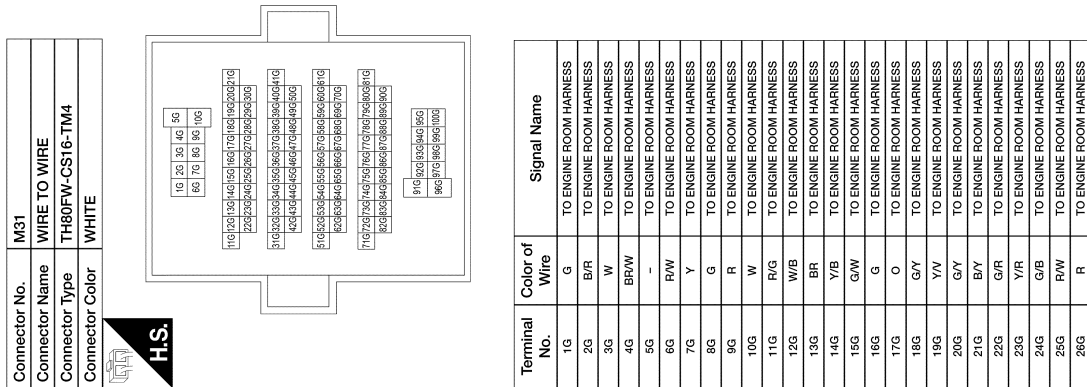


Terminal No.	Color of Wire	Signal Name
1N	-	-
2N	W	BATTERY
3N	W	BLOWER FAN RELAY OUT
4N	V	BATTERY
5N	Y	BATTERY
6N	W	BATTERY
7N	L	ACC RELAY OUT
8N	W	IGNITION

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

ACCESSORY POWER SUPPLY CONNECTORS



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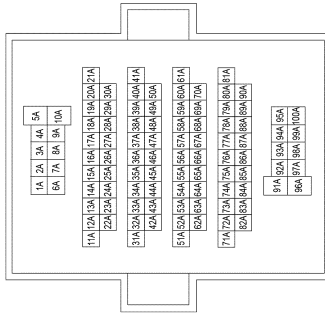
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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

ACCESSORY POWER SUPPLY CONNECTORS

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



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 CLIMATE CONTROLLED SEAT)
6A	LG	TO BODY NO. 2 HARNESS - (WITHOUT CLIMATE 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	P/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	R	TO BODY NO. 2 HARNESS
21A	BG	TO BODY NO. 2 HARNESS

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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/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.	M66
Connector Name	WIRE TO WIRE
Connector Type	L02FB-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.	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	-	-
8R	-	-
9R	-	-
10R	W	BATTERY
11R	-	-
12R	BG	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



116	115	114	113	112	111	110	109	108	107	106	105
128	127	126	125	124	123	122	121	120	119	118	117

Connector No.	M81
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FW-FHA6-SA
Connector Color	WHITE



127	126	125	124	123	122	121	120	119	118	117
143	142	141	140	139	138	137	136	135	134	133

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	B/G	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	B/G	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	L/G	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	W	BAT REAR DOOR
139	W	BAT-POWER FL
140	L/G	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



3	5	1
2	4	1

Terminal No.	Color of Wire	Signal Name
1	B	GROUND
2	L	RELAY CONTROL
3	R	RELAY OUTPUT
5	W	BATTERY

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



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Terminal No.	Color of Wire	Signal Name
1	G/R	ACCESSORY
2	B	GROUND

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



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Terminal No.	Color of Wire	Signal Name
1	G/W	ACCESSORY
2	B	GROUND

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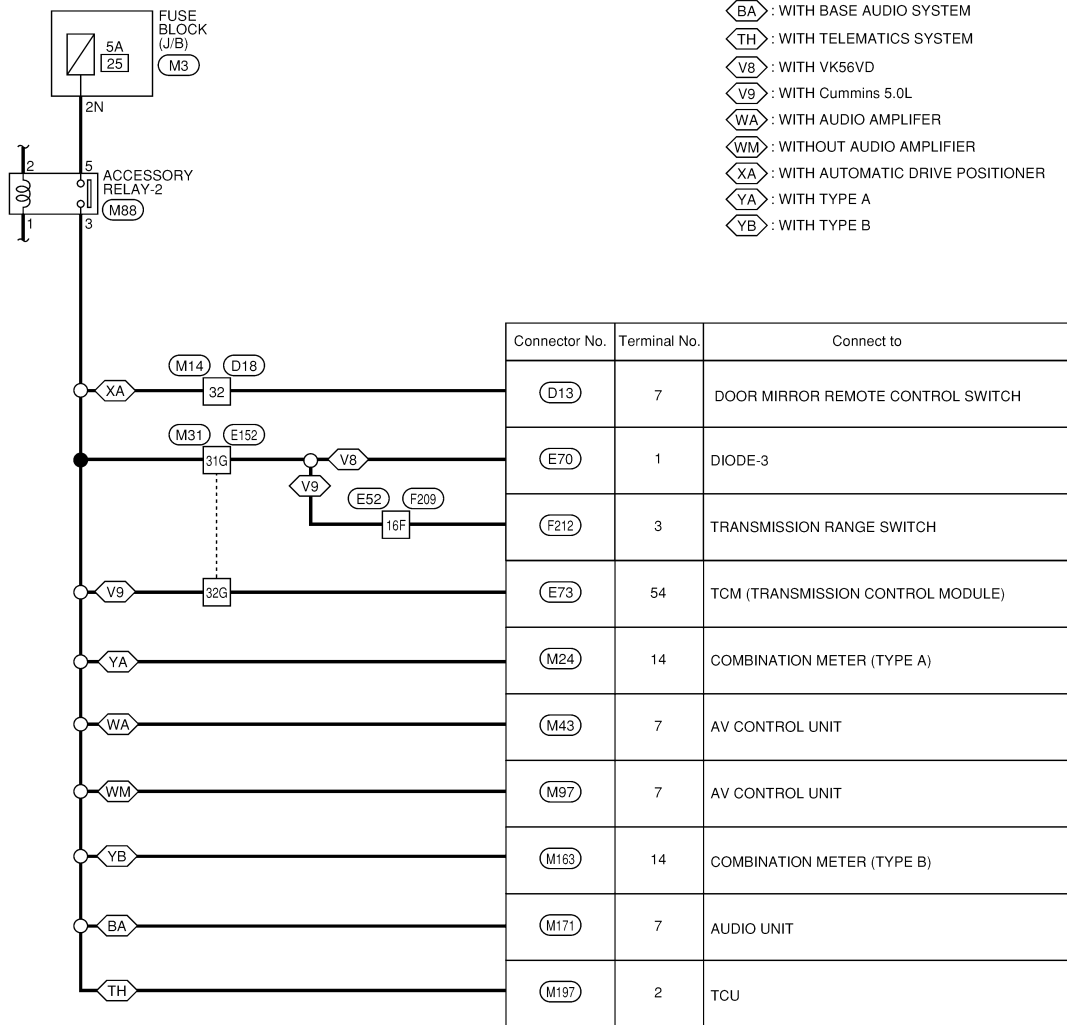
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - ACCESSORY POWER SUPPLY FUSE No. 25 -

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ACCESSORY POWER SUPPLY FUSE No. 25



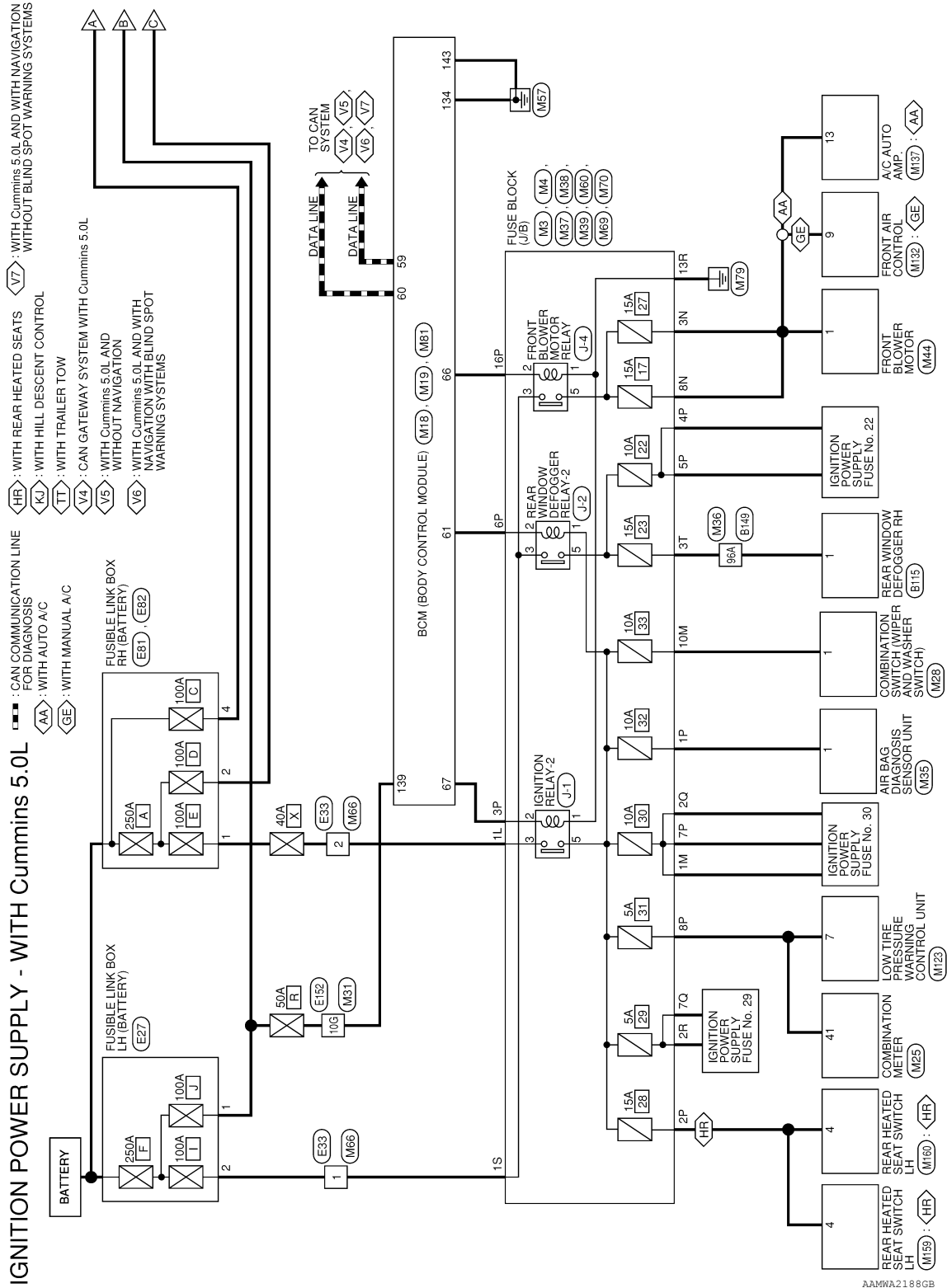
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POWER SUPPLY ROUTING CIRCUIT

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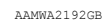
Wiring Diagram - IGNITION POWER SUPPLY - WITH Cummins 5.0L -

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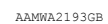


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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

IGNITION POWER SUPPLY CONNECTORS - WITH Cummins 5.0L

Connector No.	B25
Connector Name	WIRE TO WIRE
Connector Type	L02MB-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 LH
Connector Type	M02MW-LC
Connector Color	WHITE



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

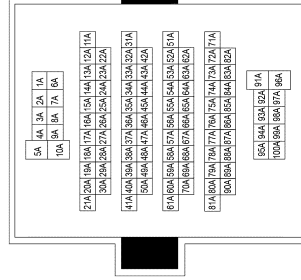
Connector No.	B115
Connector Name	REAR WINDOW DEFOGGER RH
Connector Type	M02MW-LC
Connector Color	WHITE



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

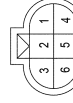


Terminal No.	Color of Wire	Signal Name
1A	SB/G	TO MAIN HARNESS - (WITHOUT CLIMATE CONTROLLED SEATS)
1A	SB	TO MAIN HARNESS - (WITH CLIMATE CONTROLLED SEATS)
2A	L	TO MAIN HARNESS
3A	V	TO MAIN HARNESS
4A	SB/R	TO MAIN HARNESS
5A	-	TO MAIN HARNESS
6A	LG/Y	TO MAIN HARNESS - (WITHOUT CLIMATE CONTROLLED SEATS)
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	P/G	TO MAIN HARNESS
15A	O/L	TO MAIN HARNESS
16A	L	TO MAIN HARNESS
18A	Y	TO MAIN HARNESS

19A	LG	TO MAIN HARNESS
20A	R	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	BR	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	G/W	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	L/Y	TO MAIN HARNESS
94A	R/L	TO MAIN HARNESS
95A	R	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

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	FR WIPER HI
3	BR	FR WIPER LO
4	-	-
5	-	-
6	L/Y	WIPER AUTOSTOP

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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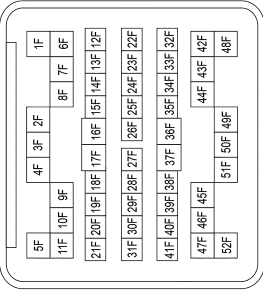
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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

IGNITION POWER SUPPLY CONNECTORS - WITH Cummins 5.0L

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

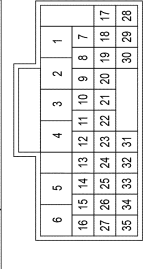
Terminal No.	Color of Wire	Signal Name
1F	Y	TO ENGINE CONTROL NO. 2 HARNESS
2F	B	TO ENGINE CONTROL NO. 2 HARNESS
3F	BR	TO ENGINE CONTROL NO. 2 HARNESS
4F	W/R	TO ENGINE CONTROL NO. 2 HARNESS
5F	B/R	TO ENGINE CONTROL NO. 2 HARNESS
6F	O	TO ENGINE CONTROL NO. 2 HARNESS
7F	GRAY	TO ENGINE CONTROL NO. 2 HARNESS
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

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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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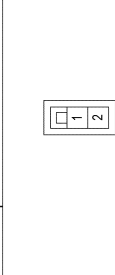
Connector No.	E74
Connector Name	TOM (TRANSMISSION CONTROL MODULE) (WITH CUMMINS 5.0L)
Connector Type	AAH29FW-TK6
Connector Color	WHITE

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

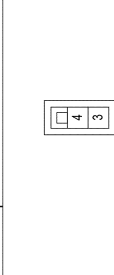
35	-	-
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Connector No.	E81
Connector Name	FUSIBLE LINK BOX RH (BATTERY)
Connector Type	L02FBR-MC
Connector Color	BROWN

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

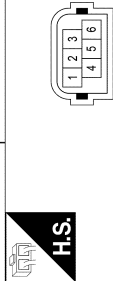
Terminal No.	Color of Wire	Signal Name
3	W	BATTERY
4	R	BATTERY

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

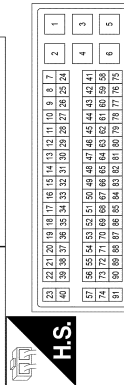
IGNITION POWER SUPPLY CONNECTORS - WITH Cummins 5.0L

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



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

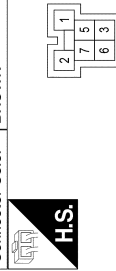


Terminal No.	Color of Wire	Signal Name
1	B	GROUND
2	B	GROUND
3	BR	SW BATTERY
4	B	GROUND
5	BR	SW BATTERY
6	BR	SW BATTERY
7	O	DOF DELTA PRESS
8	-	-
9	-	-
10	-	-
11	-	-
12	-	-
13	-	-

AAMIA5068GB

67	-	-	-
68	-	-	-
69	-	-	-
70	-	-	-
71	-	-	-
72	-	-	-
73	B	DOSER RETURN	DOSER HS
74	GW/R	DOSER HS	DOSER HS
75	L/W	COOLANT SIGNAL	COOLANT SIGNAL
76	-	-	-
77	L	WIF SIGNAL	WIF SIGNAL
78	L	PPS2 SIGNAL	PPS2 SIGNAL
79	BR	PPS1 SIGNAL	PPS1 SIGNAL
80	W	PPS1 SUPPLY	PPS1 SUPPLY
81	B	PPS2 SUPPLY	PPS2 SUPPLY
82	-	-	-
83	BR	BATTERY	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



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)

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

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)
11	O	ETC VB - (WITH VK56VD)
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 VK56VD)
17	L/W	IGN COIL - (WITH CUMMINS 5.0L)
17	W	IGN COIL - (WITH VK56VD)
18	-	-



21	20	19
24	23	22

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



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



29	28	27	26	25
38	35	34	33	32
31	30			

Terminal No.	Color of Wire	Signal Name
25	BR	ECM VB - (WITH CUMMINS 5.0L)
25	W	ECM VB - (WITH VK56VD)
26	V	O2 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	-	-



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	DTL 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



59	58	57
62	61	60

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	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	-	-

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

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

< WIRING DIAGRAM >

IGNITION POWER SUPPLY CONNECTORS - WITH Cummins 5.0L

Connector No.	E125
Connector Name	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
Connector Type	SAZ42FB-S/JZ4
Connector Color	BLACK

38	-	-	-
39	G	-	VDC OFF
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

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

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69	-	-	-
70	-	-	-
71	SB	-	HOOD SW2
72	W	-	E-CPLG - (WITH VK6WD)

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

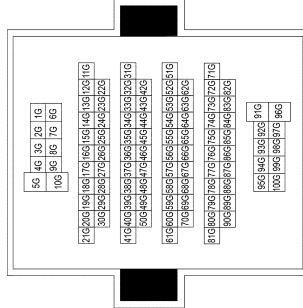
Terminal No.	Color of Wire	Signal Name
63	-	-
64	R	DETENT SW
65	-	-
66	P	PUSH START SW
67	-	-
68	L	IGN SIGNAL

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-CS16-TM4
Connector Color	WHITE



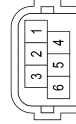
Terminal No.	Color of Wire	Signal Name
1G	G	TO MAIN HARNESS
2G	B/R	TO MAIN HARNESS
3G	W/B	TO MAIN HARNESS
4G	BR/W	TO MAIN HARNESS
5G	BR	TO MAIN HARNESS
6G	P	TO MAIN HARNESS - (WITH VCSVD)
6G	R/W	TO MAIN HARNESS - (WITH CUMMINS 5.0L)
7G	Y	TO MAIN HARNESS
8G	G	TO MAIN HARNESS
9G	R	TO MAIN HARNESS
10G	W	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

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

1F	2F	3F	4F	5F
6F	7F	8F	9F	10F
11F	12F	13F	14F	15F
16F	17F	18F	19F	20F
21F	22F	23F	24F	25F
26F	27F	28F	29F	30F
31F	32F	33F	34F	35F
36F	37F	38F	39F	40F
41F	42F	43F	44F	45F
46F	47F	48F	49F	50F
51F	52F	53F	54F	55F
56F	57F	58F	59F	60F



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	B/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	L/G	TO ENGINE ROOM HARNESS
16F	R/Y	TO ENGINE ROOM HARNESS
17F	B/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	B/G	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.	F212
Connector Name	TRANSMISSION RANGE SWITCH
Connector Type	HS10FB
Connector Color	BLACK



5	4	3	2	1
10	9	8	7	6

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	B/Y	IGNITION RELAY
10	-	-

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



1	2
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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



S

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

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



3N	2N	1N
8N	7N	6N
5N	4N	

Terminal No.	Color of Wire	Signal Name
1N	-	-
2N	W	BATTERY
3N	W	BLOWER FAN RELAY OUT
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
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

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

IGNITION POWER SUPPLY CONNECTORS - WITH Cummins 5.0L

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

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



39	B/R	SHIFT N/P
40	-	-

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

60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41
80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61



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 ALL
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	P/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	P/Q	REVERSE SW
36	W/B	HAZARD SW
37	-	-
38	-	-

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.	M25
Connector Name	COMBINATION METER (WITH TYPE A)
Connector Type	TH12FW-NH
Connector Color	WHITE



46	45	44	43	42	41
52	51	50	49	48	47

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	GI
48	BR/Y	FUEL SENSOR
49	-	-
50	-	-
51	LG	M CAN-L
52	SB	M CAN-H

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



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

Terminal No.	Color of Wire	Signal Name
1	W/R	IGNITION
2	G/Y	COMBI SW OUTPUT 4
3	-	-

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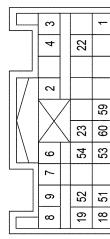
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

53	L	LH DOOR SATELLITE SENSOR+
54	W	LH DOOR SATELLITE SENSOR -
59	L	CAN-H
60	P	CAN-L

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.	M35
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT (WITHOUT OCCUPANT CLASSIFICATION SYSTEM)
Connector Type	NH28FY-EX
Connector Color	YELLOW

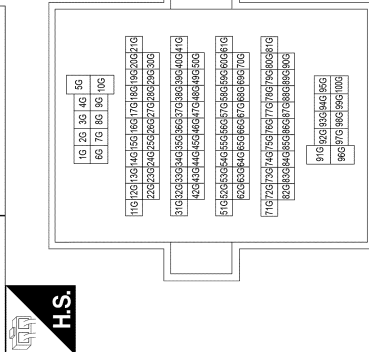


Terminal No.	Color of Wire	Signal Name
1	R	IGN
2	B	GND
3	Y	DR1 (+)
4	Y/B	DR1 (-)
5	O	AS1 (+)
6	G	AS1 (-)
7	P	AS2 (+)
8	Y	AS2 (-)
9	GR/R	ECZS (+)
10	GR/B	ECZS (-)
11	SHIELD	ECZS GND
12	O	AIRBAG WARN LAMP
13	LG/B	RH DOOR SATELLITE SENSOR+
14	Y/B	RH DOOR SATELLITE SENSOR -

IGNITION POWER SUPPLY CONNECTORS - WITH Cummins 5.0L

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	BR	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

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	BR/W	TO ENGINE ROOM HARNESS
5G	-	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

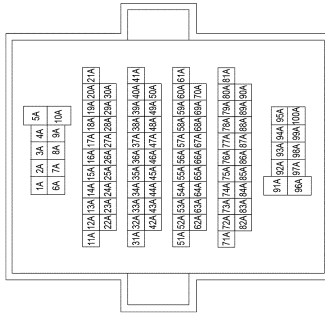
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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

IGNITION POWER SUPPLY CONNECTORS - WITH Cummins 5.0L

Connector No.	M36
Connector Name	WIRE TO WIRE
Connector Type	TH80FDGY-CS16-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	BR	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 CLIMATE CONTROLLED SEAT)
6A	LG	TO BODY NO. 2 HARNESS - (WITHOUT CLIMATE 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	P/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	R	TO BODY NO. 2 HARNESS
21A	BG	TO BODY NO. 2 HARNESS

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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/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



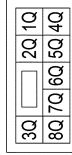
Terminal No.	Color of Wire	Signal Name
1S	W	BATTERY

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



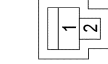
Terminal No.	Color of Wire	Signal Name
1Q	-	-
2Q	O/L	IGNITION
3Q	-	-
4Q	-	-
5Q	-	-
6Q	R/W	BATTERY
7Q	R/W	IGNITION
8Q	-	-

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

IGNITION POWER SUPPLY CONNECTORS - WITH Cummins 5.0L

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



H.S.

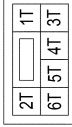
Connector No.	M66
Connector Name	WIRE TO WIRE
Connector Type	L02FB-MC
Connector Color	BLACK



H.S.

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

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



H.S.

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



H.S.

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

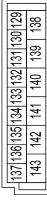
Terminal No.	Color of Wire	Signal Name
1M	GR	IGNITION
2M	-	-
3M	-	-
4M	-	-
5M	R/Y	BATTERY
6M	R/W	TAIL LAMP 2
7M	-	-
8M	-	-
9M	-	-
10M	W/R	IGNITION

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



H.S.

Connector No.	M81
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FW-FHA6-SA
Connector Color	WHITE



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	-	-
8R	-	-
9R	-	-
10R	W	BATTERY
11R	-	-
12R	B/G	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	L/G	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	L/G	P/W POWER SUPPLY IGN
141	V	P/W POWER SUPPLY BAT
142	Y	BAT FRONT DOOR
143	B	GND1

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 CONTROL
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 Cummins 5.0L

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



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
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Connector No.	M108
Connector Name	YAW RATE/SIDE/DECEL G SENSOR
Connector Type	SAZ06FB
Connector Color	BLACK



1	2	3	4	5	6
---	---	---	---	---	---

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	L/G	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

Connector No.	M123
Connector Name	LOW TIRE PRESSURE WARNING CONTROL UNIT
Connector Type	TH12FW-NH
Connector Color	WHITE



1	2	3	4	5	6	7	8	9	10	11	12
---	---	---	---	---	---	---	---	---	----	----	----

Terminal No.	Color of Wire	Signal Name
1	P	CAN-L
2	L	CAN-H
3	-	-
4	-	-
5	-	-
6	-	-
7	W	IGN SW
8	-	-
9	-	-
10	B	GND
11	Y	+B
12	-	-

Connector No.	M132
Connector Name	FRONT AIR CONTROL
Connector Type	TH32FW-NH
Connector Color	WHITE



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

Terminal No.	Color of Wire	Signal Name
1	L	CAN-H
2	B	GND
3	SB	BAT
4	L	ILL+
5	-	-
6	-	-
7	-	-
8	-	-
9	W	IGN2(ACC)
10	P	FAN GATE
11	Y	RR DEF ON
12	G	LIN SIG
13	W	VACTR
14	-	-
15	-	-
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	-	-
32	-	-

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

IGNITION POWER SUPPLY CONNECTORS - WITH Cummins 5.0L

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



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

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



2	1
6	5
4	3

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	-	-
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	-	-
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

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



2	1
6	5
4	3

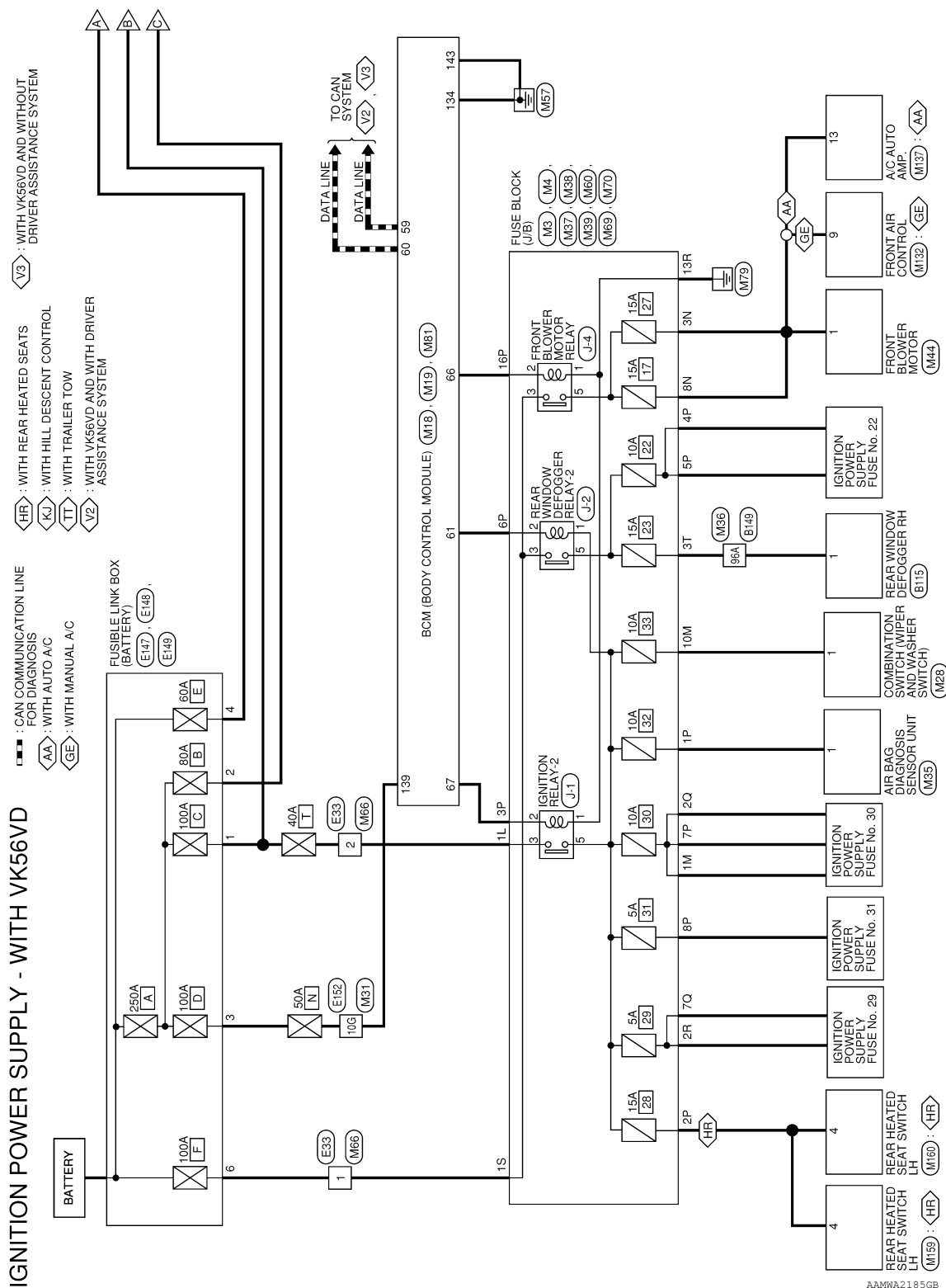
Terminal No.	Color of Wire	Signal Name
1	GR	ILLUMINATION -
2	L	ILLUMINATION +
3	BR	HEATED SEAT SWITCH OUTPUT (LOW)
4	Y	IGNITION
5	LG	HEATED SEAT SWITCH OUTPUT (HIGH)
6	B	GROUND

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

< WIRING DIAGRAM >

Wiring Diagram - IGNITION POWER SUPPLY - WITH VK56VD -

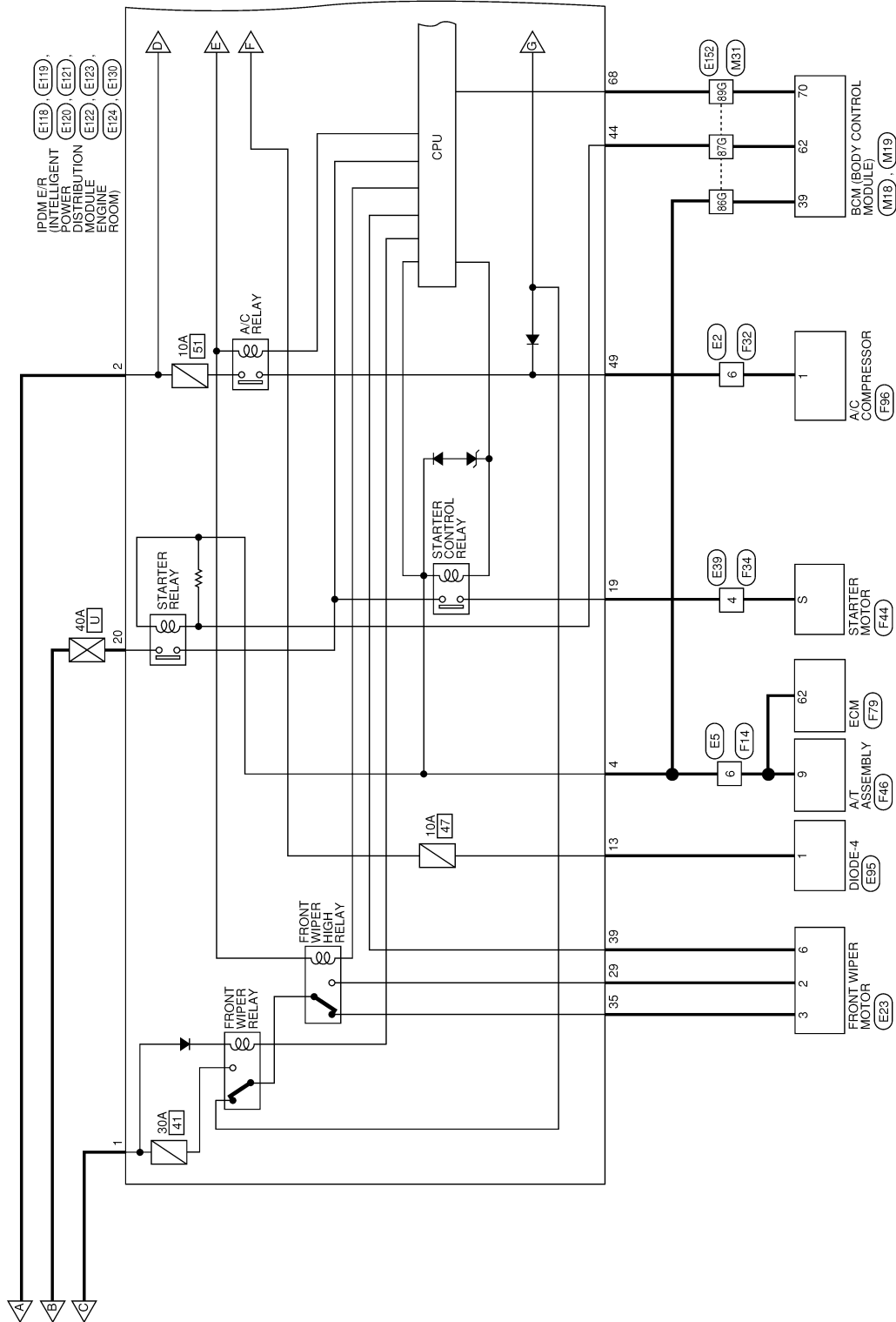
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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >



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A
B
C
D
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< WIRING DIAGRAM >



< WIRING DIAGRAM >

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	L/G/Y	TO MAIN HARNESS - (WITHOUT CLIMATE CONTROLLED SEATS)
6A	L/G	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	BRO	TO MAIN HARNESS
12A	BRO	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

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



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



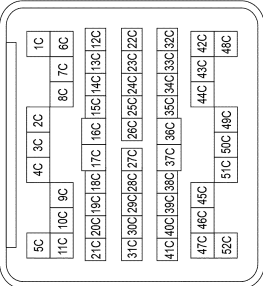
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Terminal No.	Color of Wire	Signal Name
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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

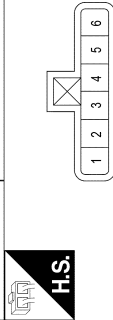
IGNITION POWER SUPPLY CONNECTORS - WITH VK56VD

Connector No.	C1	Connector Name	WIRE TO WIRE
Connector Type	RK26FGY-RS20-X6	Connector Color	GRAY
 			
Terminal No.	Color of Wire	Signal Name	Signal Name
1C	Y/V	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)	
7C	R	TO ENGINE ROOM HARNESS - (WITH VK56VD)	
8C	B	TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L)	
8C	O/B	TO ENGINE ROOM HARNESS - (WITH VK56VD)	
9C	W/L	TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L)	
9C	SB	TO ENGINE ROOM HARNESS - (WITH VK56VD)	
10C	GR/R	TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L)	
10C	GR	TO ENGINE ROOM HARNESS - (WITH VK56VD)	
11C	B	TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L)	
11C	R/W	TO ENGINE ROOM HARNESS - (WITH VK56VD)	
12C	Y	TO ENGINE ROOM HARNESS	
13C	B	TO ENGINE ROOM HARNESS	
14C	BG	TO ENGINE ROOM HARNESS	
15C	Y	TO ENGINE ROOM HARNESS	
16C	B	TO ENGINE ROOM HARNESS	
17C	V	TO ENGINE ROOM HARNESS	
18C	BG	TO ENGINE ROOM HARNESS	
19C	L	TO ENGINE ROOM HARNESS	
20C	W	TO ENGINE ROOM HARNESS	
21C	Lg	TO ENGINE ROOM HARNESS	

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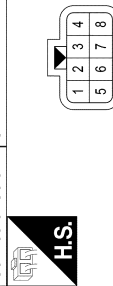
22C	SHIELD	TO ENGINE ROOM HARNESS
23C	G/B	TO ENGINE ROOM HARNESS
24C	G/B	TO ENGINE ROOM HARNESS
25C	W	TO ENGINE ROOM HARNESS
26C	B	TO ENGINE ROOM HARNESS
27C	Lg	TO ENGINE ROOM HARNESS
28C	G/W	TO ENGINE ROOM HARNESS
29C	R/Lg	TO ENGINE ROOM HARNESS
30C	R/L	TO ENGINE ROOM HARNESS
31C	B	TO ENGINE ROOM HARNESS
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
48C	R/Y	TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L)
48C	V	TO ENGINE ROOM HARNESS - (WITH VK56VD)
50C	B	TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L)
50C	B/Y	TO ENGINE ROOM HARNESS - (WITH VK56VD)
51C	V	TO ENGINE ROOM HARNESS - (WITH CUMMINS 5.0L)
51C	B	TO ENGINE ROOM HARNESS - (WITH VK56VD)
52C	V/W	TO ENGINE ROOM HARNESS

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



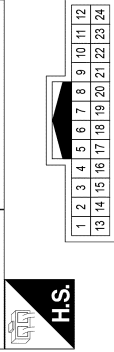
Terminal No.	Color of Wire	Signal Name
1	B/Y	BATTERY
2	GR	FPC INPUT SIGNAL
3	R/W	DIAG OUTPUT SIGNAL
4	B	GROUND
5	L	FUEL PUMP -
6	BR	FUEL PUMP +

Connector No.	E2
Connector Name	WIRE TO WIRE
Connector Type	RS08MGY-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



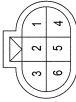
Terminal No.	Color of Wire	Signal Name
1	L/R	TO ENGINE CONTROL HARNESS
2	BR	TO ENGINE CONTROL HARNESS
3	V	TO ENGINE CONTROL HARNESS
4	L/O	TO ENGINE CONTROL HARNESS
5	W	TO ENGINE CONTROL HARNESS
6	B/R	TO ENGINE CONTROL HARNESS
7	Y/R	TO ENGINE CONTROL HARNESS
8	BR	TO ENGINE CONTROL HARNESS
9	W/L	TO ENGINE 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	V/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	FR WIPER HI
3	BR	FR WIPER LO
4	-	-
5	-	-
6	L/Y	WIPER AUTOSTOP



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

1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24

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

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

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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

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

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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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

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	53C	54C	55C

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	B/W	TO CHASSIS HARNESS
5C	B/Y	TO CHASSIS HARNESS
6C	Y	TO CHASSIS HARNESS
7C	G/R	TO CHASSIS HARNESS - (WITH CUMMINS 5.0L)
8C	R	TO CHASSIS HARNESS - (WITH VK56VD)
9C	B	TO CHASSIS HARNESS - (WITH CUMMINS 5.0L)
10C	O/B	TO CHASSIS HARNESS - (WITH VK56VD)
11C	W/L	TO CHASSIS HARNESS - (WITH CUMMINS 5.0L)
12C	SB	TO CHASSIS HARNESS - (WITH VK56VD)
13C	GR/R	TO CHASSIS HARNESS - (WITH CUMMINS 5.0L)
14C	GR	TO CHASSIS HARNESS - (WITH VK56VD)
15C	B	TO CHASSIS HARNESS - (WITH CUMMINS 5.0L)
16C	R/W	TO CHASSIS HARNESS - (WITH VK56VD)
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	R/G	TO CHASSIS HARNESS - (WITHOUT BULB CHECK)
30C	G/R	TO CHASSIS HARNESS - (WITH BULB CHECK)
31C	R/L	TO CHASSIS HARNESS
32C	B	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	R/Y	TO CHASSIS HARNESS - (WITH CUMMINS 5.0L)
50C	V	TO CHASSIS HARNESS - (WITH VK56VD)
51C	B	TO CHASSIS HARNESS - (WITH CUMMINS 5.0L)
52C	B/Y	TO CHASSIS HARNESS - (WITH VK56VD)
53C	V	TO CHASSIS HARNESS - (WITH CUMMINS 5.0L)
54C	B	TO CHASSIS HARNESS - (WITH VK56VD)
55C	L	TO CHASSIS HARNESS - (WITHOUT FFV)
56C	L	TO CHASSIS HARNESS - (WITH FFV)
57C	V/W	TO CHASSIS HARNESS

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.	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

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					



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)
11	O	ETC VB - (WITH VK56VD)
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 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

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 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

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



Terminal No.	Color of Wire	Signal Name
25	BR	ECM VB - (WITH CUMMINS 5.0L)
25	W	ECM VB - (WITH VK56VD)
26	V	O2 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	-	-

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	DTL 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	



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



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 VK56VD)
59	-	-
60	-	-
61	-	-
62	B	P GND

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

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

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	LEL
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

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

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

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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

4	3
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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

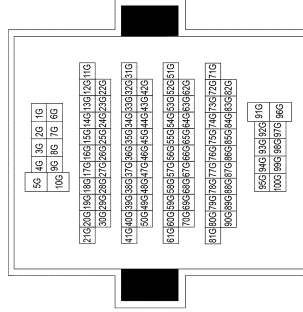
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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

IGNITION POWER SUPPLY CONNECTORS - WITH VK56VD

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



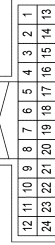
Terminal No.	Color of Wire	Signal Name
1G	G	TO MAIN HARNESS
2G	B/R	TO MAIN HARNESS
3G	W/B	TO MAIN HARNESS
4G	BR/W	TO MAIN HARNESS
5G	BR	TO MAIN HARNESS
6G	P	TO MAIN HARNESS - (WITH VK56VD)
6G	R/W	TO MAIN HARNESS - (WITH CUMMINS 5.0L)
7G	Y	TO MAIN HARNESS
8G	G	TO MAIN HARNESS
9G	R	TO MAIN HARNESS
10G	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/V	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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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 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

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	W	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

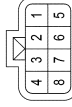
Connector No.	F14
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE



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	B/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	9B	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

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

4	3	2	1
8	7	6	5

H.S.

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

5	4	3	2	1
10	9	8	7	6

H.S.

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



H.S.

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

64	SHIELD	SHIELD	ENGINE COOLANT TEMPERATURE SENSOR 2 (PHASE) (BANK 2)
65	W		
66	P		THROTTLE POSITION SENSOR 2 (BANK 2)
67			
68	P		EXHAUST VALVE TIMING CONTROL POSITION SENSOR (BANK 2)
69	L/W		
70	Y/B		
71			
72			
73	LG/R		
74	R		
75			
76			
77	L/W		
78	R/L		
79	W		
80	B/W		
81			
82			
83	V/G		
84	W/R		
85	L		
86	L/G		
87			
88	L/LG		
89			
90	BR/W		
91	L/B		
92	BR/Y		
93	GR		
94	Y/R		
95	Y		
96			
97			
98			
99	V/R		
100			
101	O		
102	P/L		
103			
104	LG/R		
105	G/Y		
106	V/W		
107	W		

108	R		
109			
110			
111	O		
112	LG/B		
113	LG/R		
114	LG/B		
115	LG/R		
116	L/W		
117	SB		
118	L/G		
119	L/R		
120	L		

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

H.S.



H.S.

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

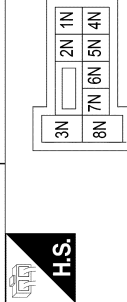
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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

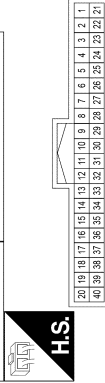
IGNITION POWER SUPPLY CONNECTORS - WITH VK56VD

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



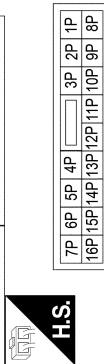
16P	W	BLOWER FAN RELAY OUT
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Connector No.	M18
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FG-NH
Connector Color	GREEN



Terminal No.	Color of Wire	Signal Name
1N	-	-
2N	W	BATTERY
3N	W	BLOWER FAN RELAY OUT
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

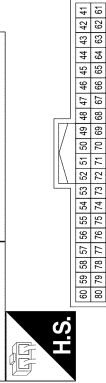


Terminal No.	Color of Wire	Signal Name
1P	R	IGNITION
2P	Y	IGNITION
3P	G	IGNITION RELAY OUT
4P	B/W	RR DEF RLY
5P	B/W	RR DEF RLY
6P	O	RR DEF RLY OUT
7P	G	IGNITION
8P	W	IGNITION
9P	L	BATTERY
10P	-	-
11P	-	-
12P	-	-
13P	R	BATTERY
14P	Y	BATTERY
15P	Y/LG	BATTERY

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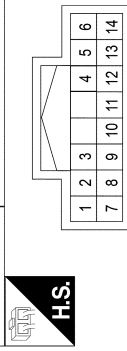
37	-	-
38	-	-
39	B/R	SHIFT N/P
40	-	-

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

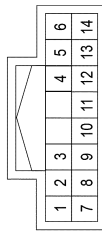


73	-	-
74	-	-
75	L/W	COMBI SW OUT 5
76	P	COMBI SW OUT 4
77	L	COMBI SW OUT 3
78	O/B	COMBI SW OUT 2
79	R/W	COMBI SW OUT 1
80	-	-

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



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	LAS SENSOR K-LINE
56	-	-
57	-	-
58	-	-
59	P	CAN-L
60	L	CAN-H
61	O	REAR DEFROGGER 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



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	W/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

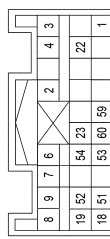
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

53	L	LH DOOR SATELLITE SENSOR+
54	W	LH DOOR SATELLITE SENSOR -
59	L	CAN-H
60	P	CAN-L

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.	M35
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT (WITHOUT OCCUPANT CLASSIFICATION SYSTEM)
Connector Type	NH28FY-EX
Connector Color	YELLOW

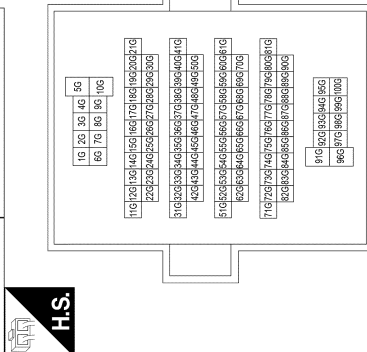


Terminal No.	Color of Wire	Signal Name
1	R	IGN
2	B	GND
3	Y	DR1 (+)
4	Y/B	DR1 (-)
6	O	AS1 (+)
7	G	AS1 (-)
8	P	AS2 (+)
9	Y	AS2 (-)
18	GR/P	ECZS (+)
19	GR/B	ECZS (-)
22	SHIELD	ECZS GND
23	O	AIRBAG WARN LAMP
51	LG/B	RH DOOR SATELLITE SENSOR+
52	Y/B	RH DOOR SATELLITE SENSOR -

IGNITION POWER SUPPLY CONNECTORS - WITH VK56VD

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

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	BR/W	TO ENGINE ROOM HARNESS
5G	-	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/V	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

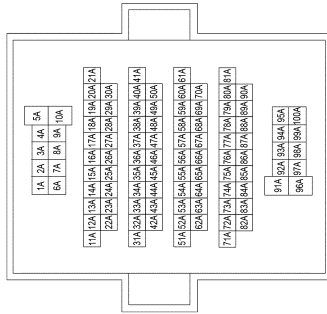
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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

IGNITION POWER SUPPLY CONNECTORS - WITH VK56VD

Connector No.	M36
Connector Name	WIRE TO WIRE
Connector Type	TH80FDGY-CS16-TM4
Connector Color	GRAY



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



H.S.

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

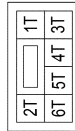


H.S.

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

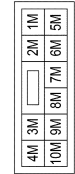
Terminal No.	Color of Wire	Signal Name
1	W	TO ENGINE ROOM HARNESS
2	L	TO ENGINE ROOM HARNESS

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



H.S.

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



H.S.

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	P/Y	BATTERY
6M	R/W	TAIL LAMP 2
7M	-	-
8M	-	-
9M	-	-
10M	W/R	IGNITION

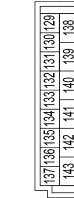
Connector No.	M70
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FBR-CS
Connector Color	BROWN

H.S.



Connector No.	M81
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FW-FHA6-SA
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
129	P/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.	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 CONTROL
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	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE



12	11	10	9	8	7	6	5	4	3	2	1
24	23	22	21	20	19	18	17	16	15	14	13

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



1	2	3	4	5	6
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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	L/G	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



Connector No.	M132
Connector Name	FRONT AIR CONTROL
Connector Type	TH32FW-NH
Connector Color	WHITE

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

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	-	-
32	-	-



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

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

23	G	IGN
24	V	RX (R CONT)
25	-	-
26	R	SENS GND
27	G	INCAR SENS
28	P	INTAKE SENS
29	-	-
30	-	-
31	-	-
32	-	-
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	L/G	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



2	1
6	5
4	3

Terminal No.	Color of Wire	Signal Name
1	L	CAN-H
2	B	GND
3	SB	BAT
4	BR	TX (R CONT)
5	-	-
6	-	-
7	W	AMB SENS
8	BR	STRG HEATER SW
9	G	SUN SENS
10	-	-
11	-	-
12	-	-
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



Terminal No.	Color of Wire	Signal Name
1	GR	ILLUMINATION -
2	L	ILLUMINATION +
3	SB	HEATED SEAT SWITCH OUTPUT (LOW)
4	Y	IGNITION
5	L	HEATED SEAT SWITCH OUTPUT (HIGH)
6	B	GROUND

Terminal No.	Color of Wire	Signal Name
1	L	CAN-H
2	B	GND
3	SB	BAT
4	L	ILL+
5	-	-
6	-	-
7	-	-
8	-	-
9	W	IGN2(ACC)
10	P	FAN GATE
11	Y	RR DEF ON
12	G	LIN SIG
13	W	VACTR
14	-	-
15	-	-
16	-	-

AAMIA5095GB

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	HEATED SEAT SWITCH OUTPUT (LOW)
4	Y	IGNITION
5	LG	HEATED SEAT SWITCH OUTPUT (HIGH)
6	B	GROUND

AAMTA5096GB

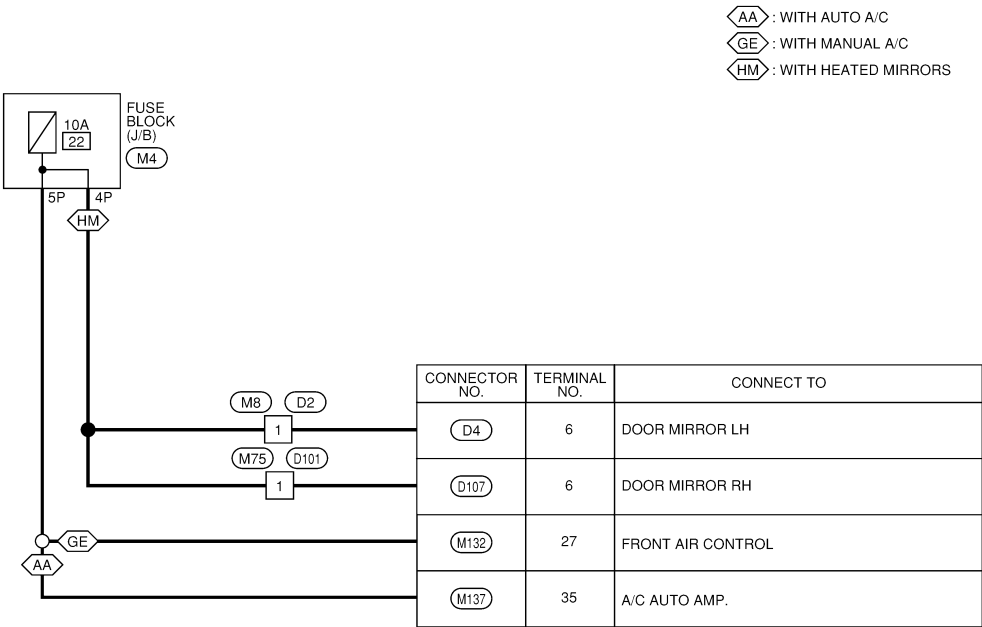
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 22

INFOID:000000014388653

IGNITION POWER SUPPLY FUSE No. 22



AAMIA4519GB

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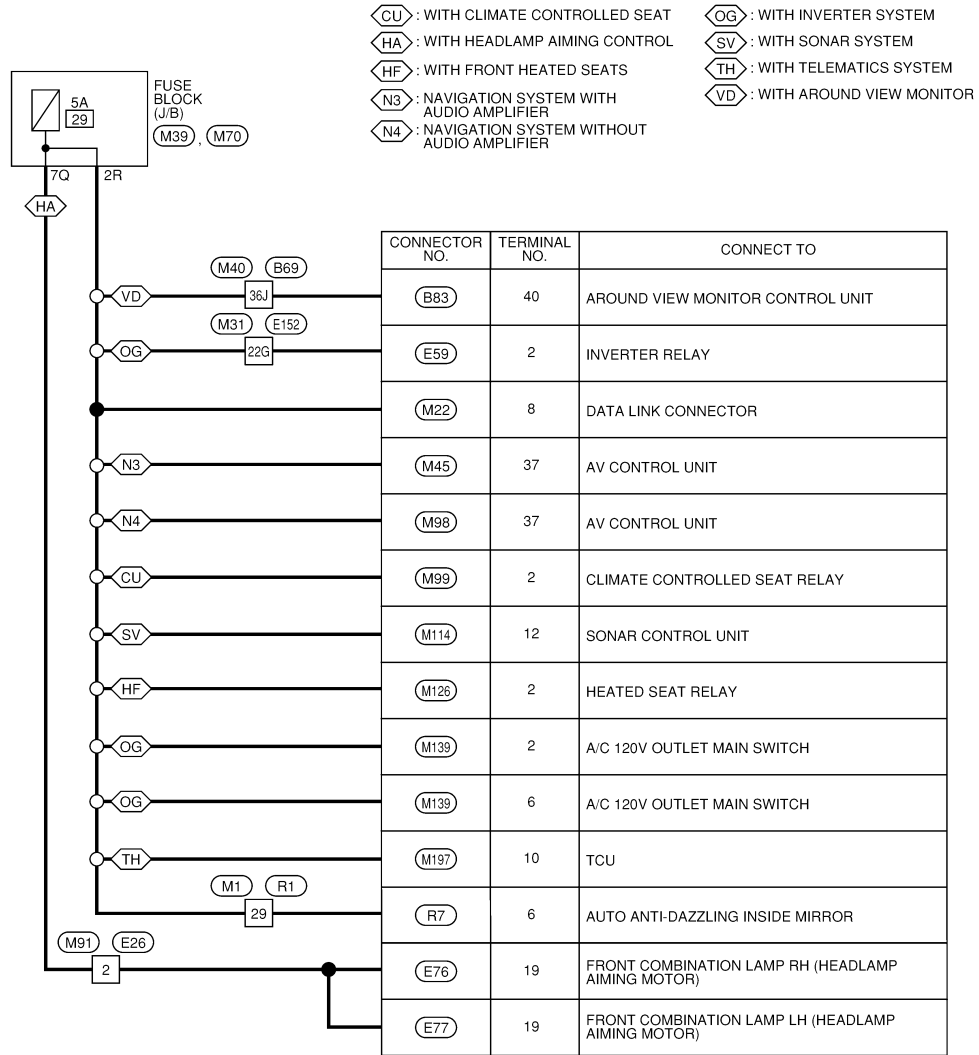
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 29

INFOID:000000014388654

IGNITION POWER SUPPLY FUSE No. 29



AAMIA5097GB

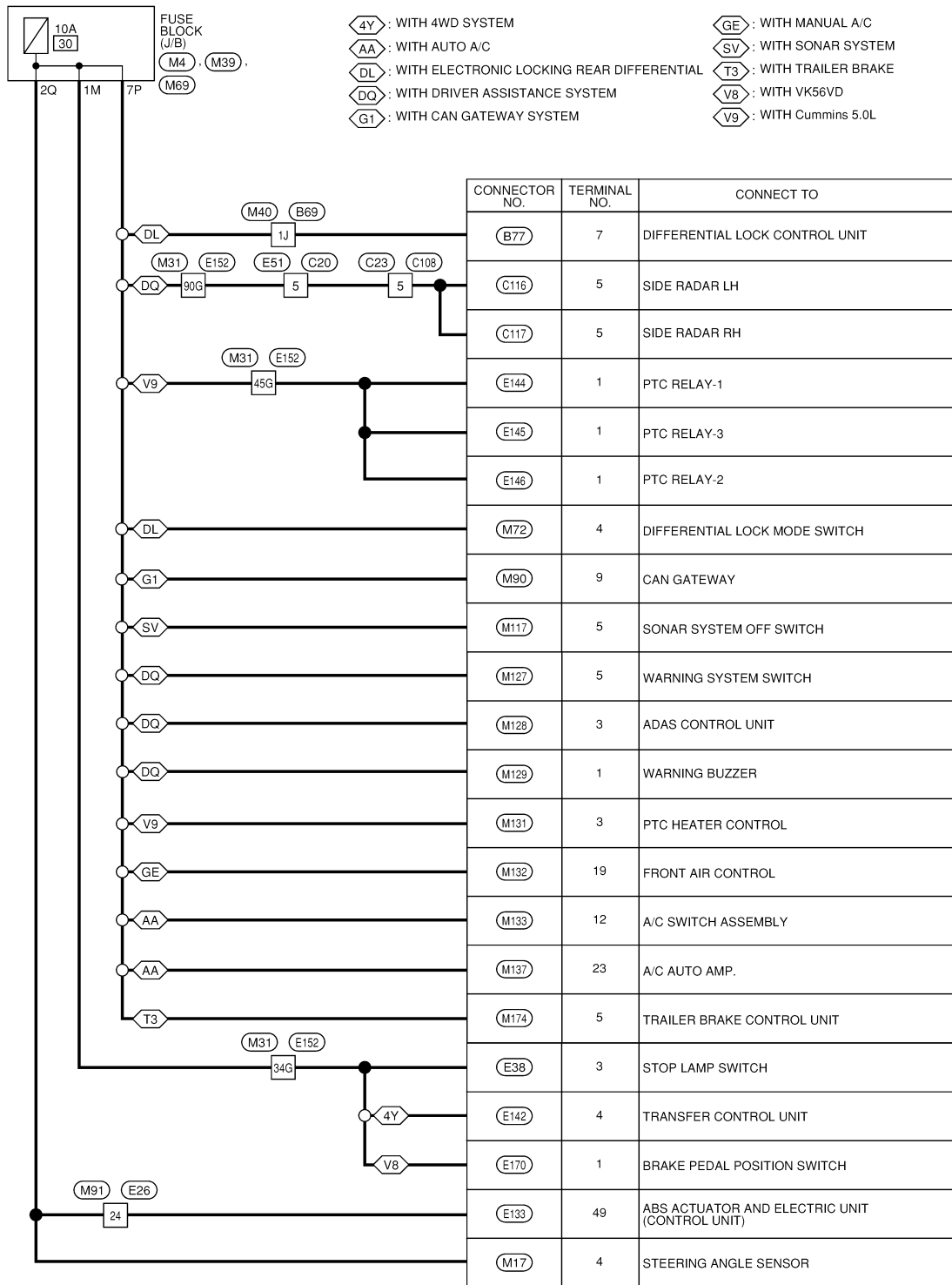
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 30 -

INFOID:000000014388655

IGNITION POWER SUPPLY FUSE No. 30



AAMIA5239GB

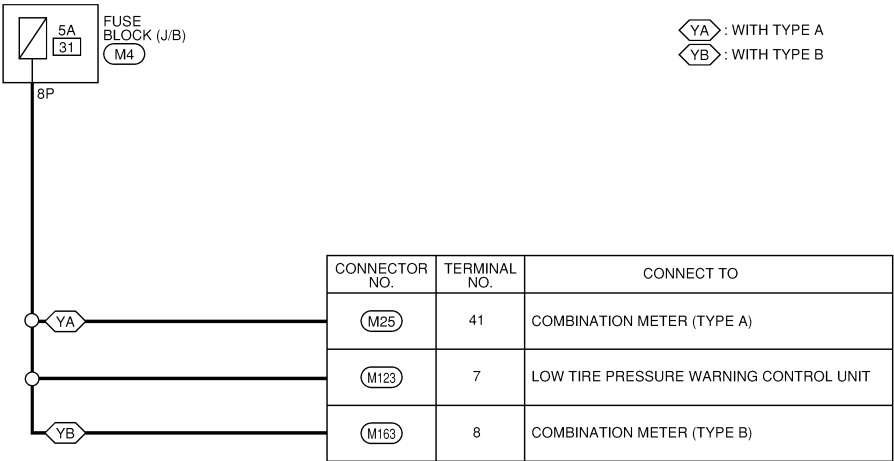
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

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

INFOID:0000000014388656

IGNITION POWER SUPPLY FUSE No. 31 - WITH VK56VD



AAMIA4522GB

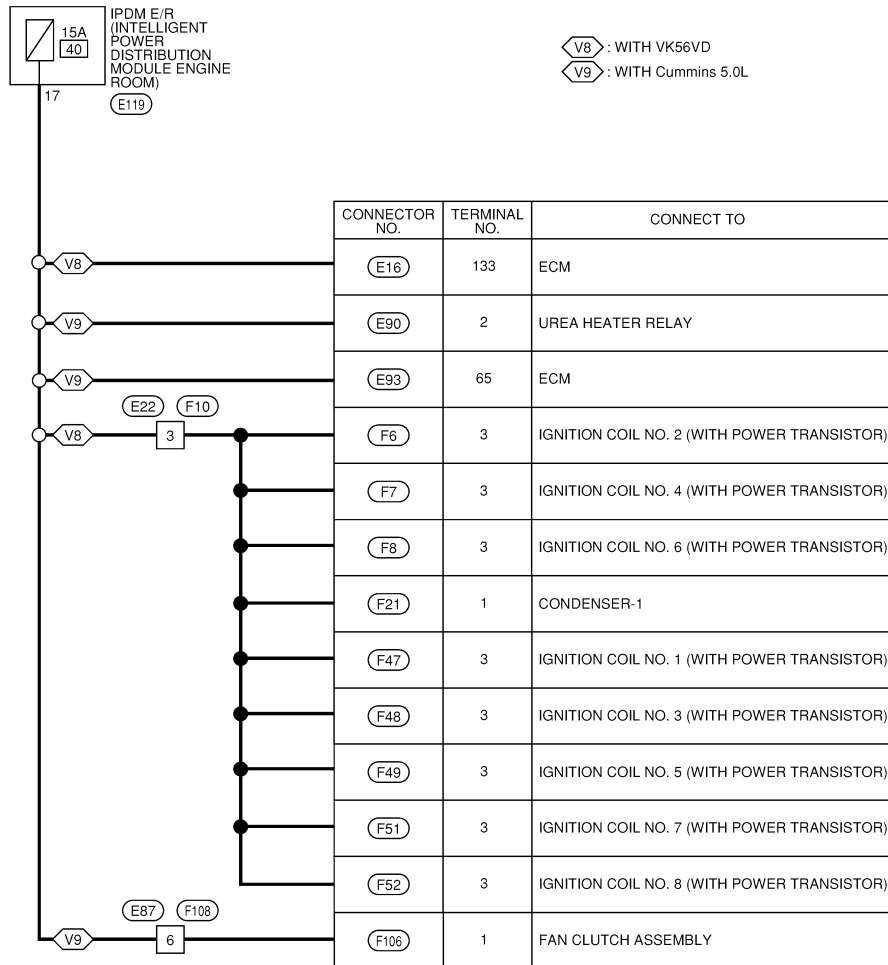
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 40 -

INFOID:000000014388657

IGNITION POWER SUPPLY FUSE No. 40



AAMIA5240GB

GROUND

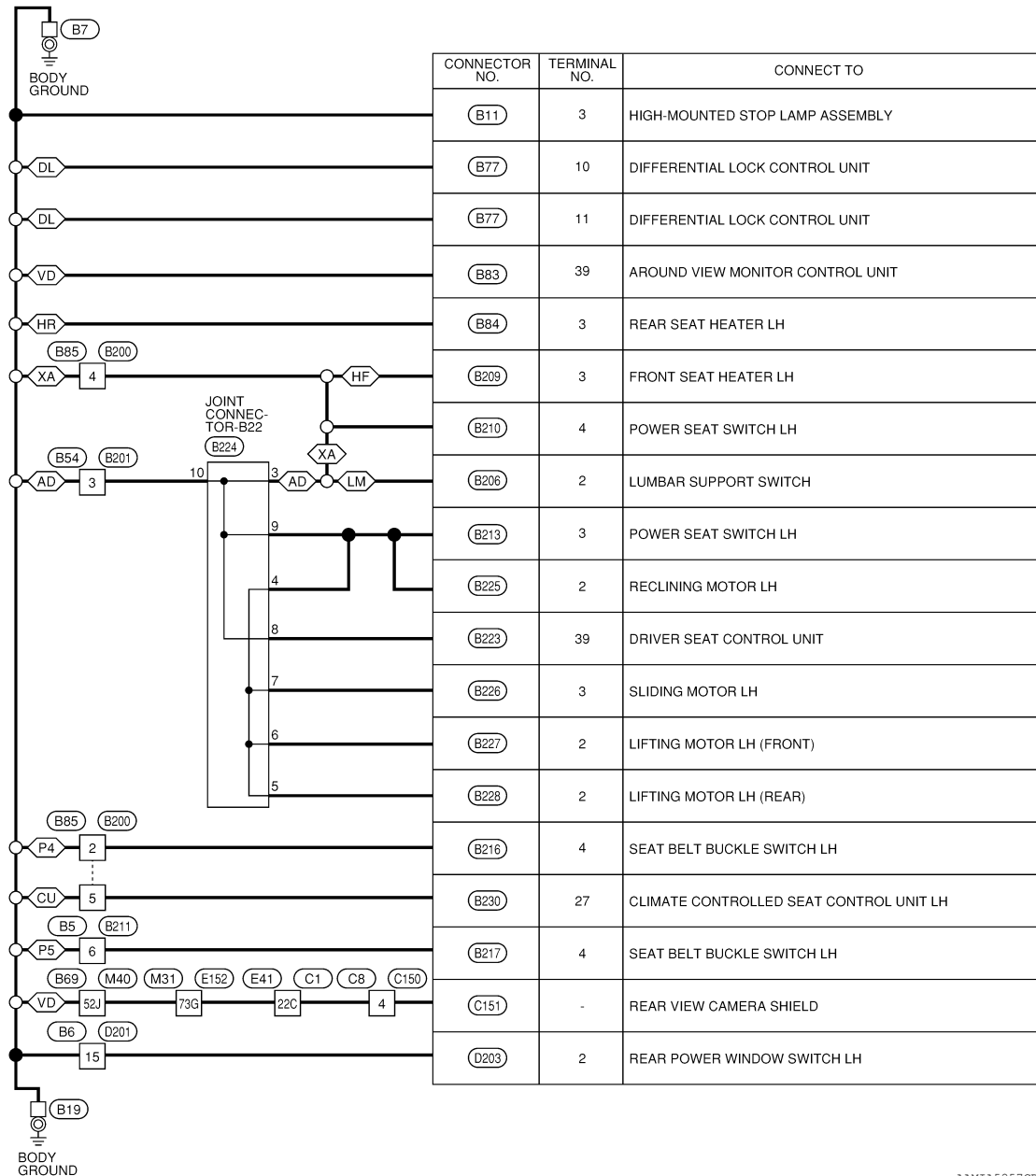
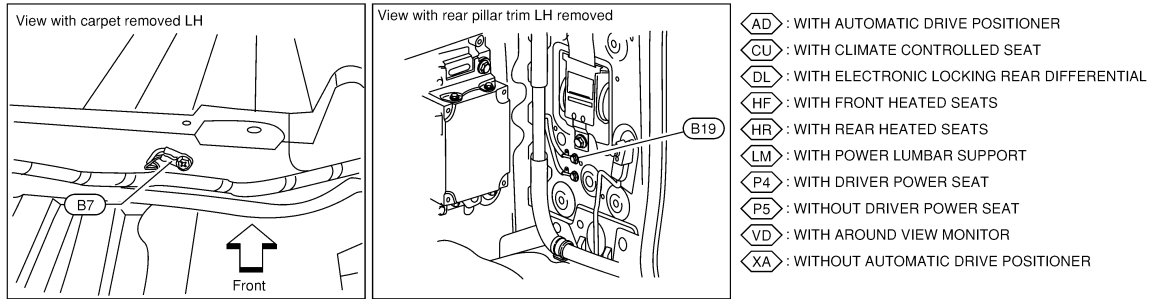
< WIRING DIAGRAM >

GROUND

Ground Distribution

INFOID:000000014388658

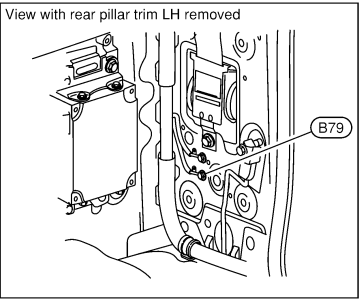
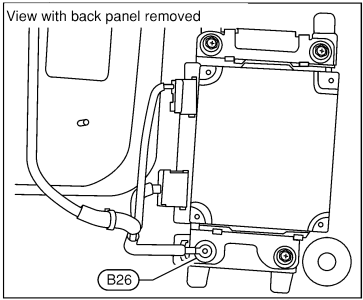
BODY HARNESS



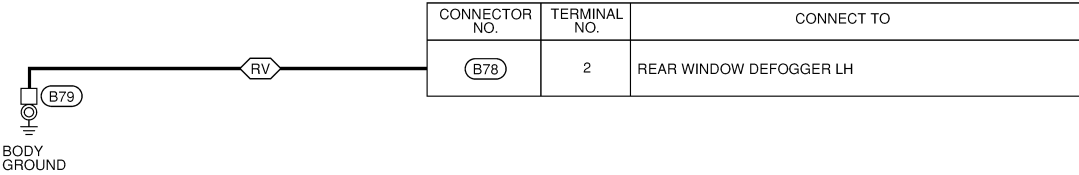
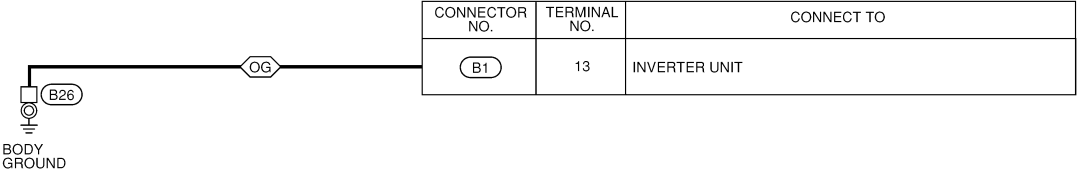
AAMIA5257GB

GROUND

< WIRING DIAGRAM >



OG : WITH INVERTER SYSTEM
RV : WITH REAR WINDOW DEFOGGER



AAMIA3767GB

PG

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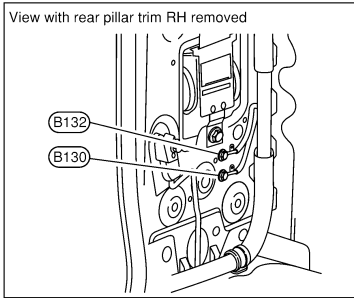
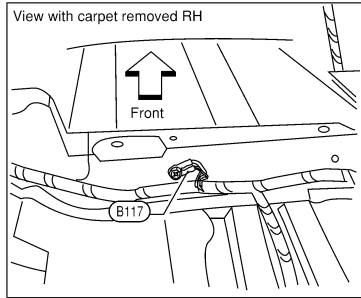
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P

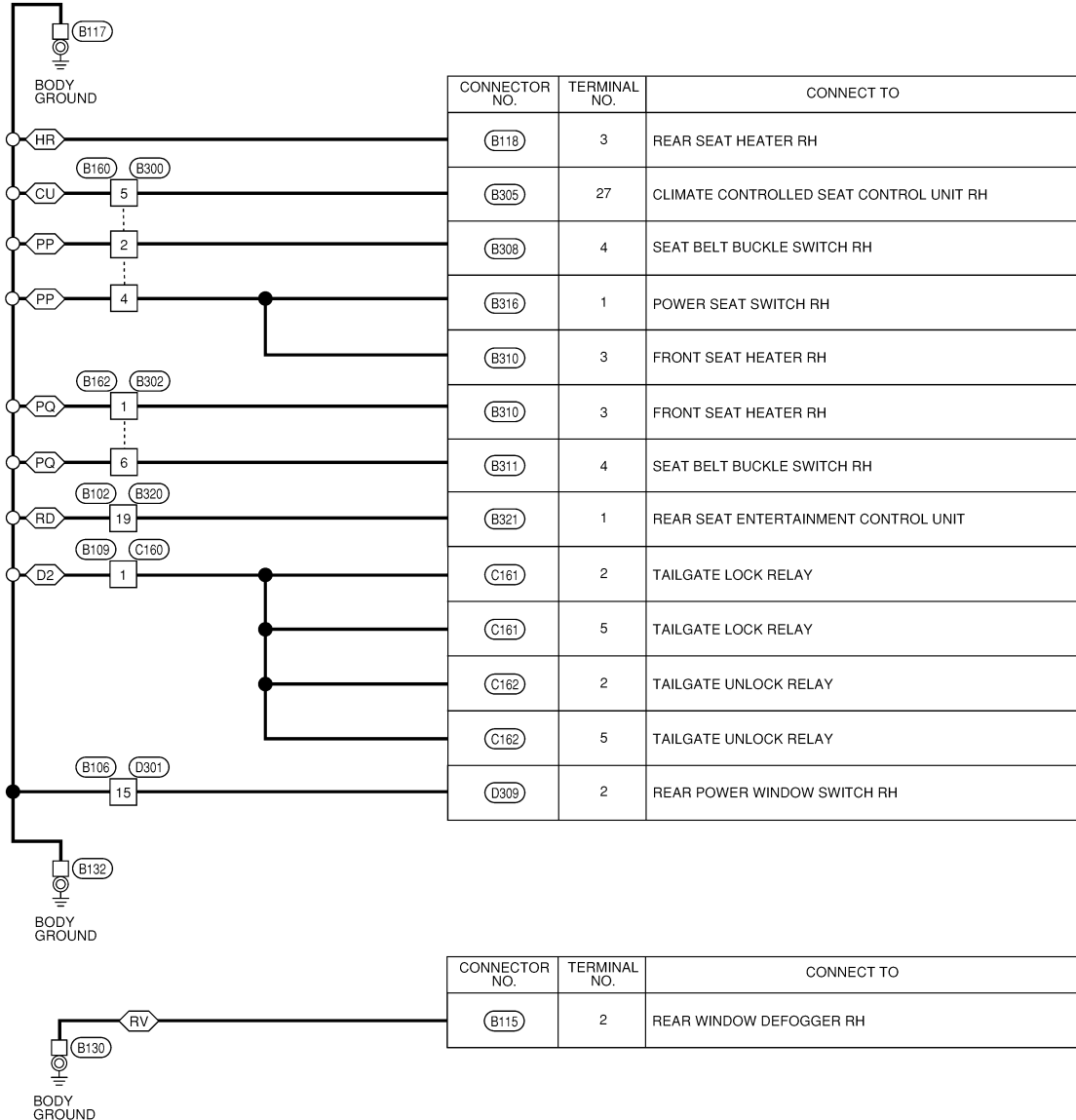
GROUND

< WIRING DIAGRAM >

BODY NO. 2 HARNESS



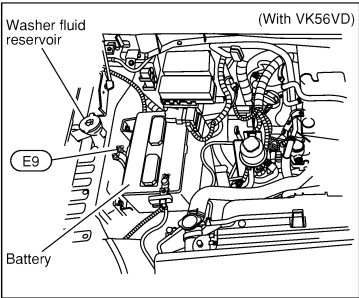
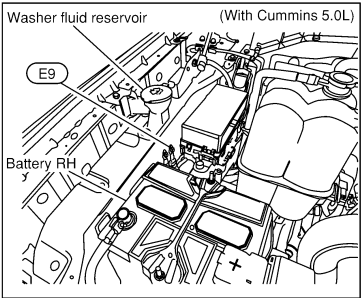
- ⬡CU : WITH CLIMATE CONTROLLED SEAT
- ⬡D2 : WITH ELECTRIC LOCKING TAILGATE
- ⬡HR : WITH REAR HEATED SEATS
- ⬡PP : WITH FRONT PASSENGER POWER SEAT
- ⬡PQ : WITHOUT FRONT PASSENGER POWER SEAT
- ⬡RD : WITH REAR ENTERTAINMENT SYSTEM
- ⬡RV : WITH REAR WINDOW DEFOGGER



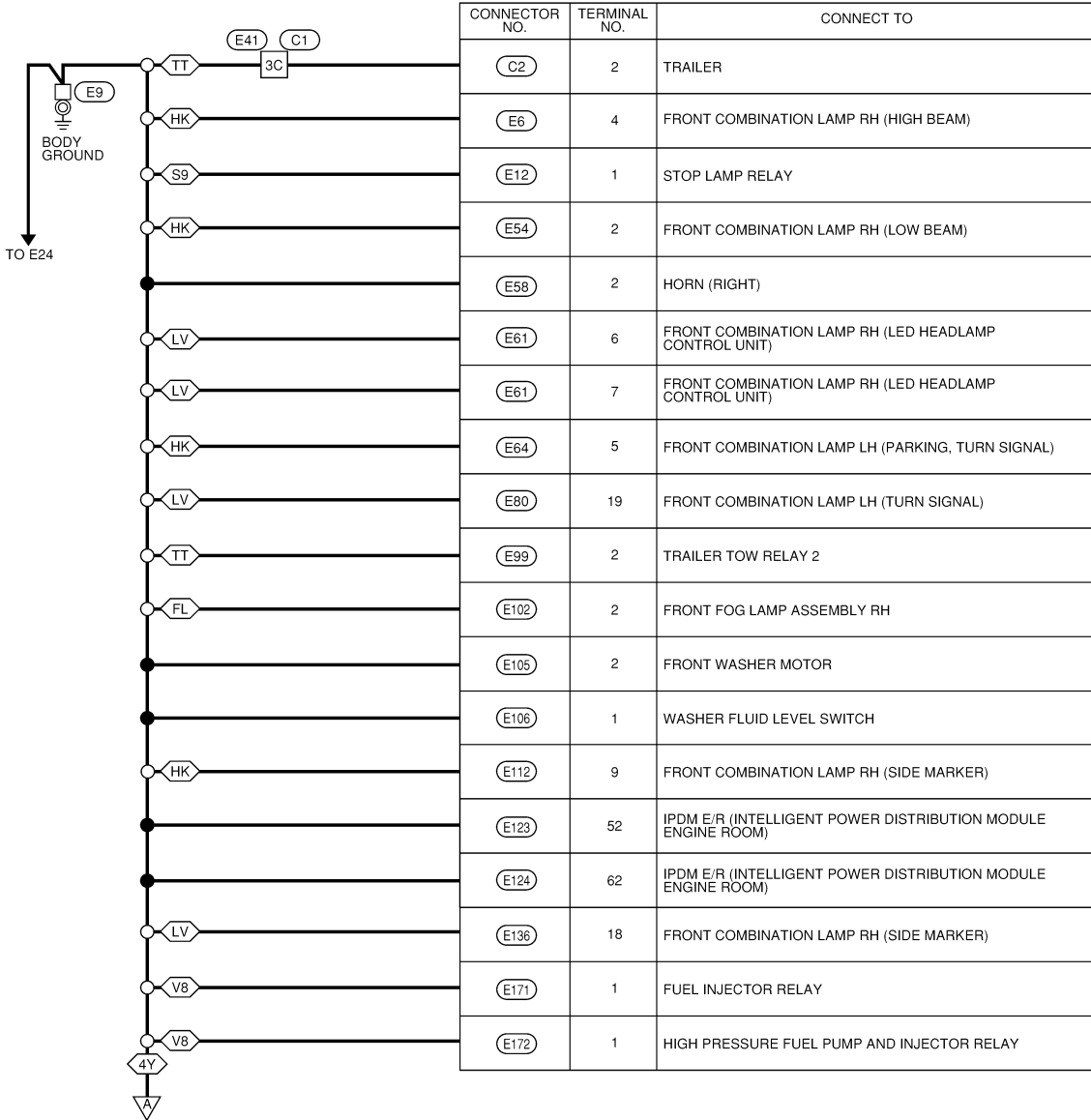
AAMIA5258GB

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

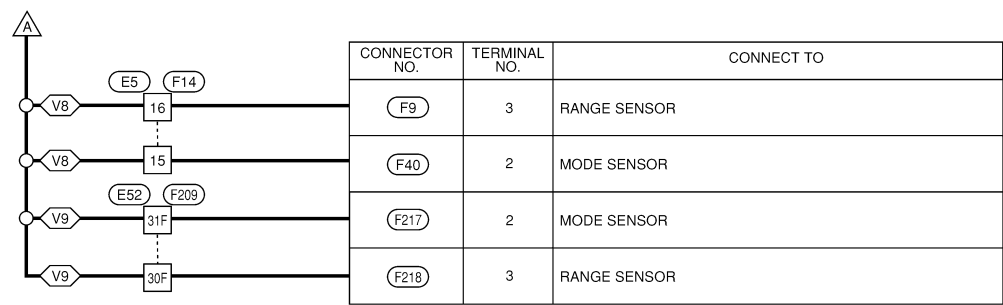


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GROUND

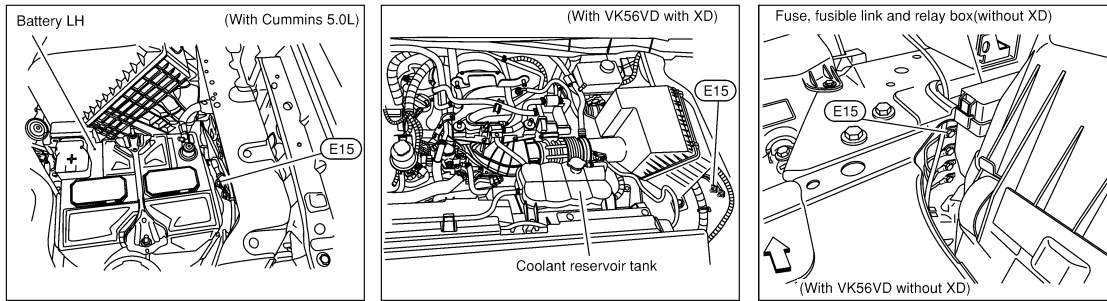
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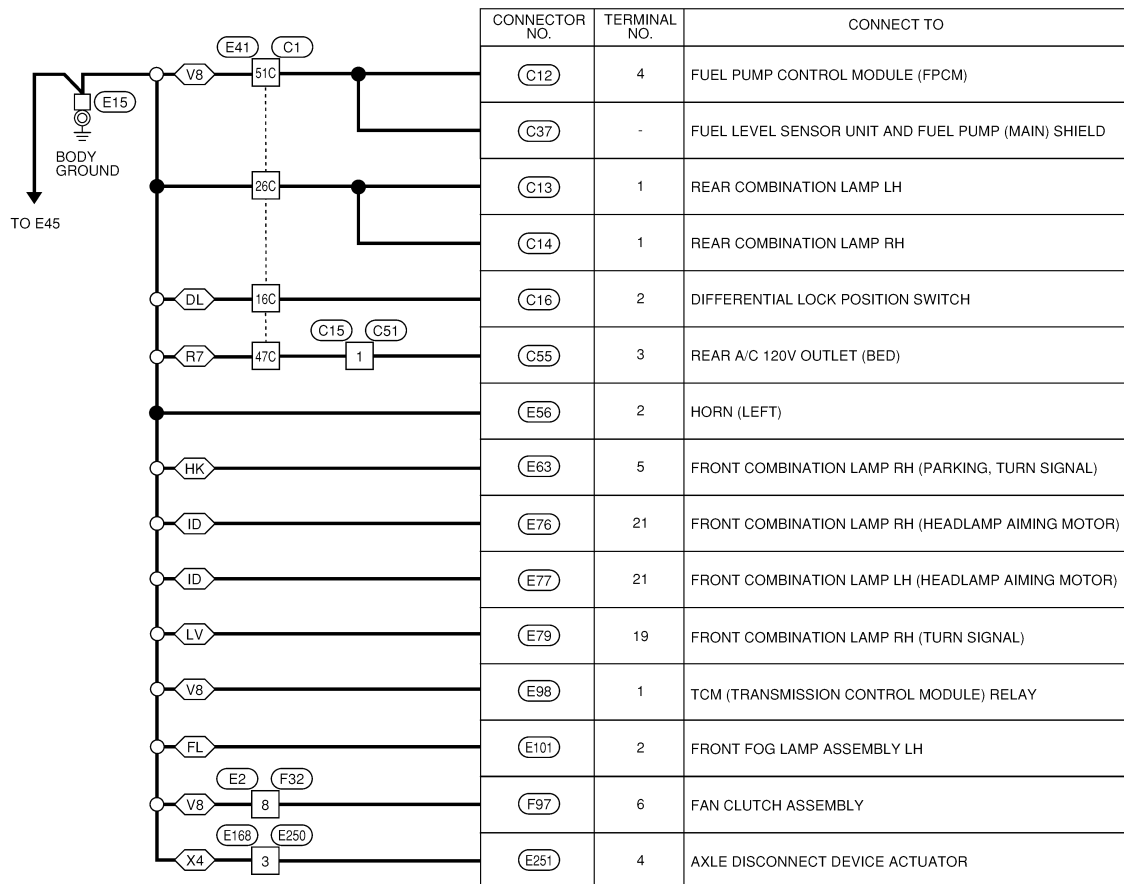
AAMIA5260GB

GROUND

< WIRING DIAGRAM >



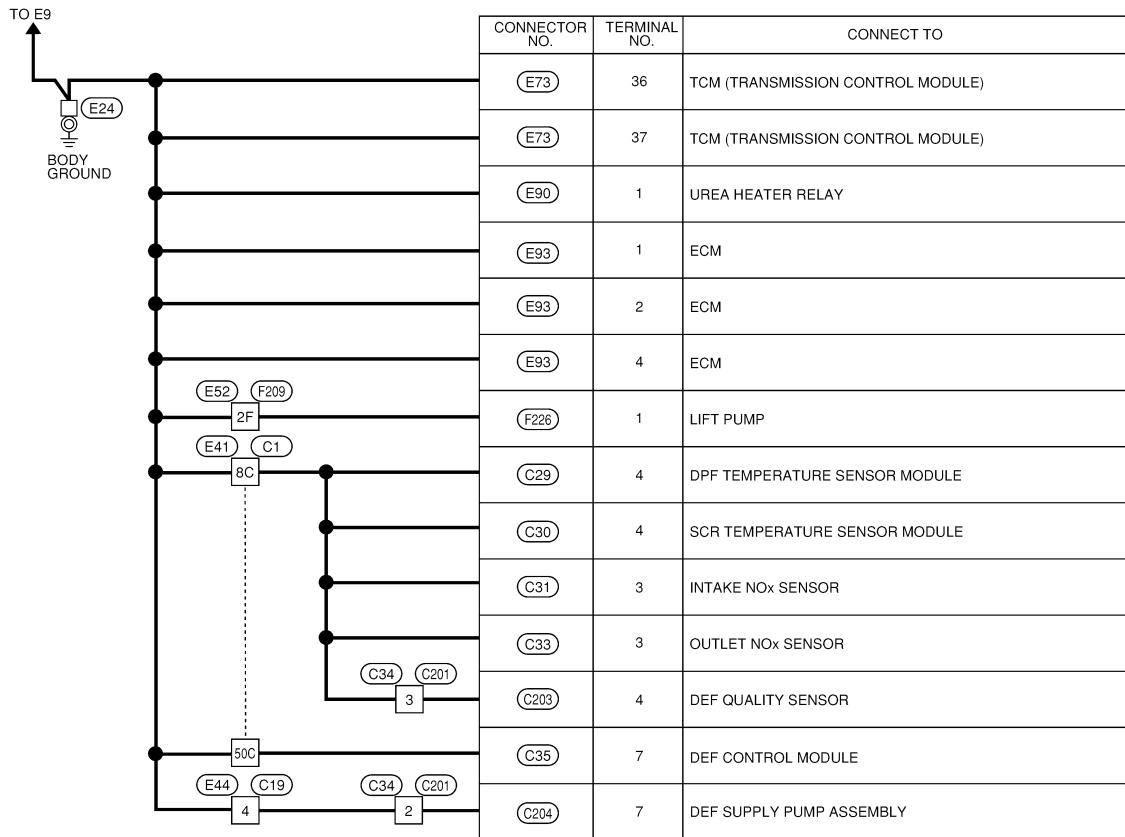
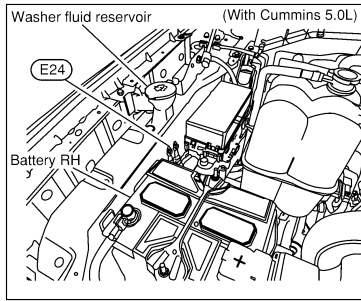
- <DL> : WITH ELECTRONIC LOCKING REAR DIFFERENTIAL
 <FL> : WITH FRONT FOG LAMPS
 <HK> : WITH HALOGEN HEADLAMPS
 <ID> : WITH MANUAL HEADLAMP AIMING CONTROL
 <LV> : WITH LED HEADLAMPS
 <R7> : WITH REAR CARGO BED AC 120V OUTLET
 <V8> : WITH VK56VD
 <X4> : WITH AXLE DISCONNECT DEVICE



AAMIA5261GB

GROUND

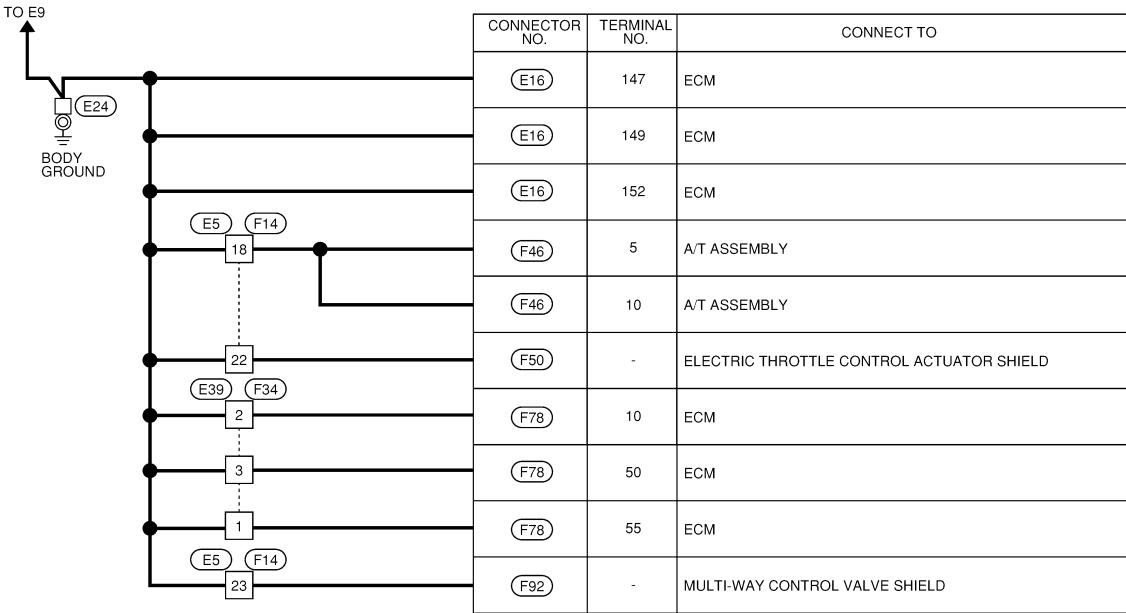
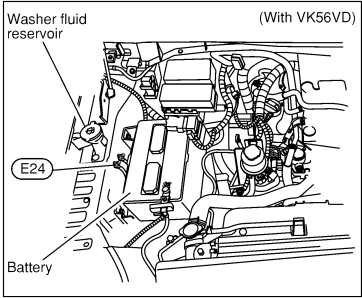
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AAMIA5262GB

GROUND

< WIRING DIAGRAM >

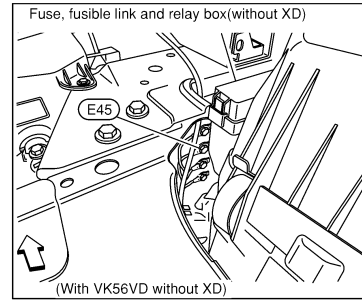
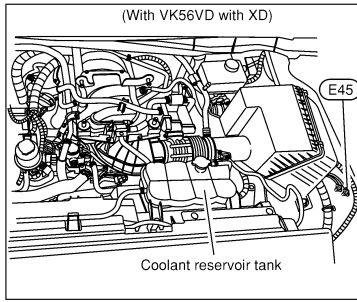
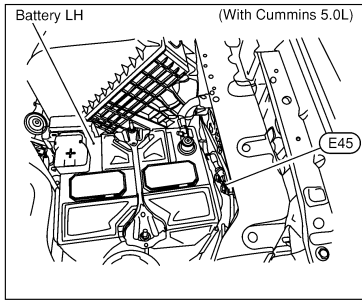


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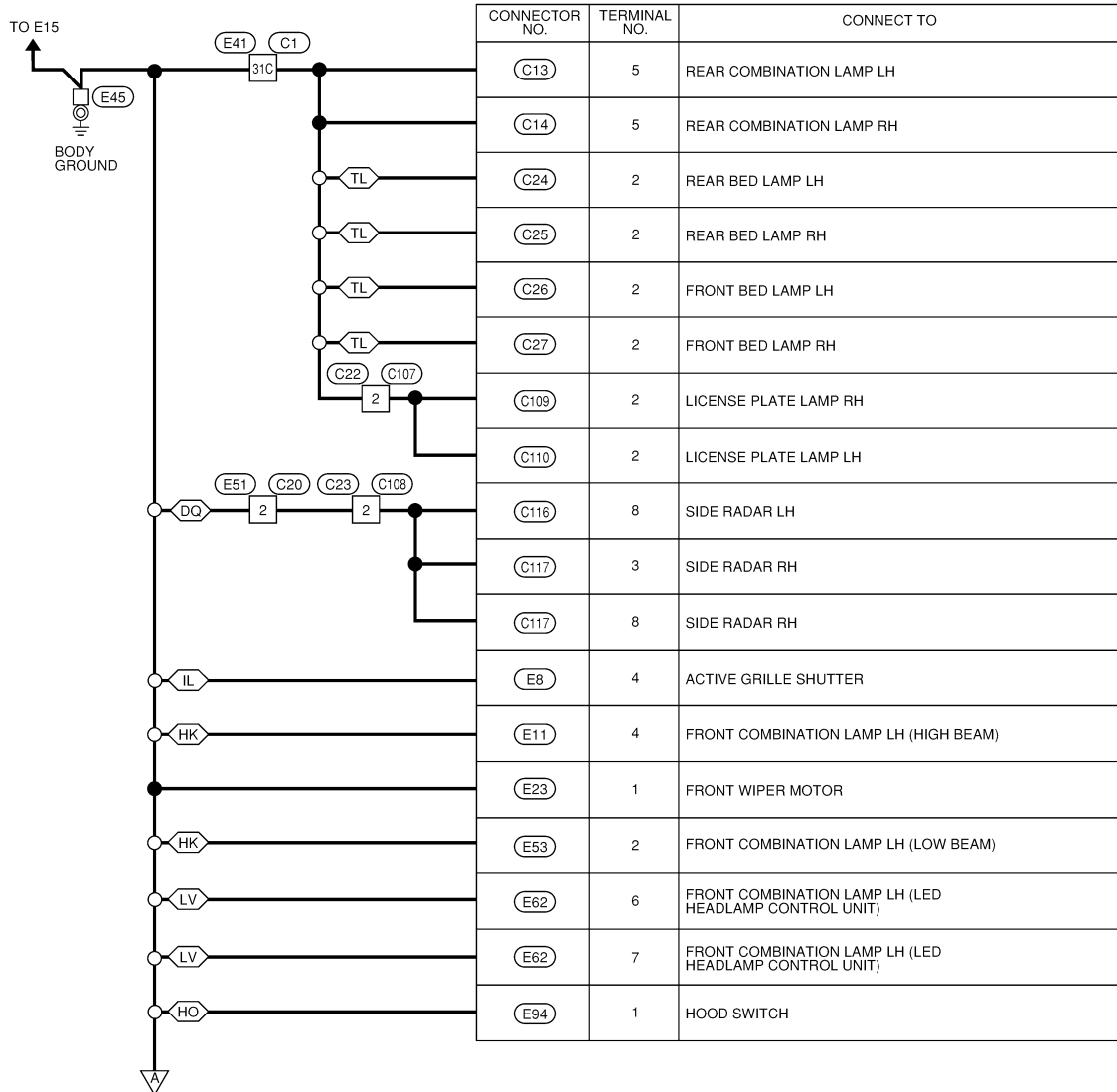
< WIRING DIAGRAM >



(DQ) : WITH DRIVER ASSISTANCE SYSTEM
 (HK) : WITH HALOGEN HEADLAMPS
 (HO) : WITH HOOD SWITCH
 (HV) : WITH HALOGEN HEADLAMPS AND DAYTIME RUNNING LIGHT SYSTEM

(IL) : WITH ACTIVE GRILLE SHUTTER
 (LV) : WITH LED HEADLAMPS
 (4Y) : WITH 4WD SYSTEM
 (TL) : WITH TAILGATE CARGO LAMPS

(V8) : WITH VK56VD
 (V9) : WITH Cummins 5.0L



AAMIA5264GB

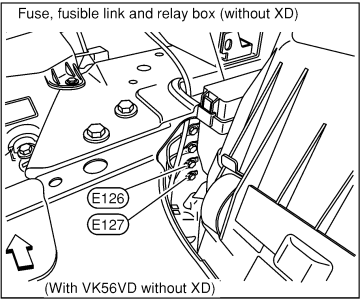
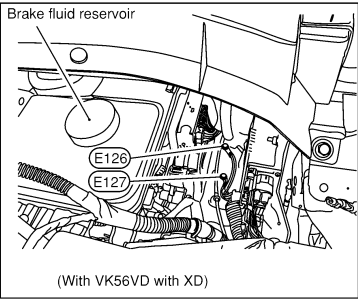
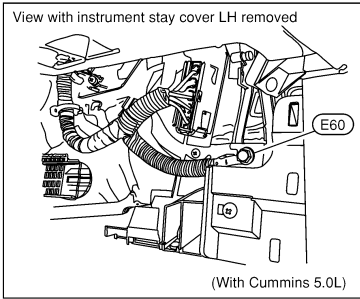
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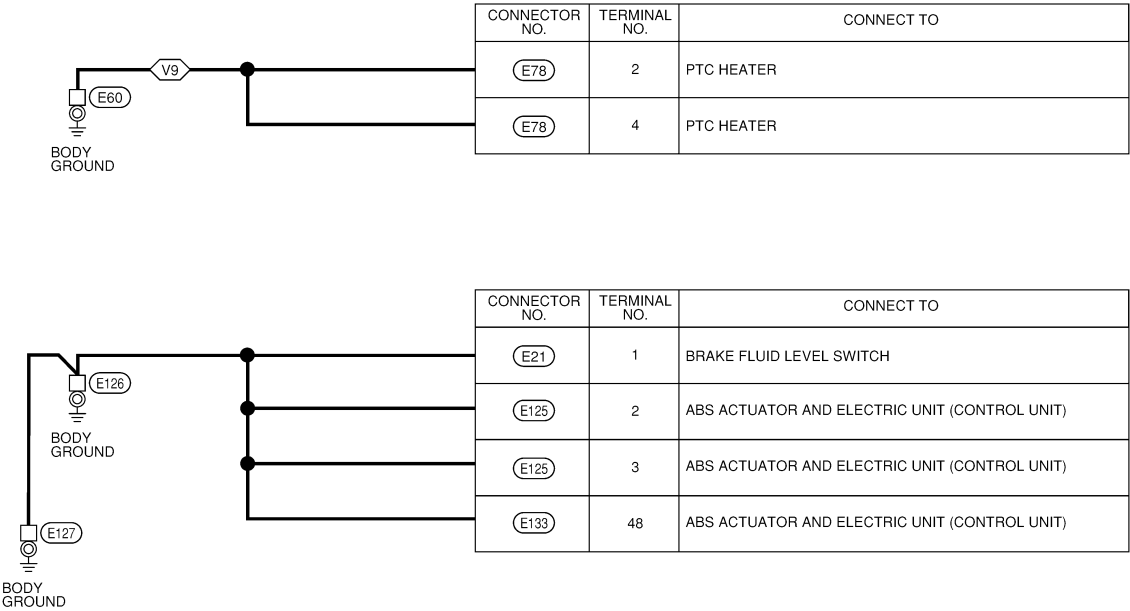
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GROUND

< WIRING DIAGRAM >



V9 : WITH Cummins 5.0L

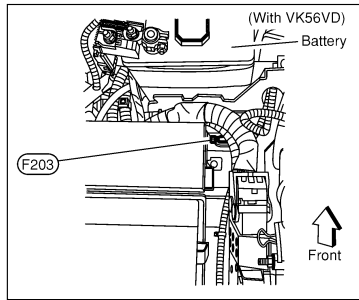
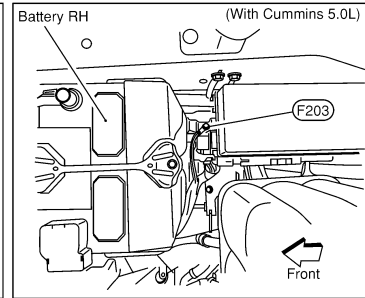
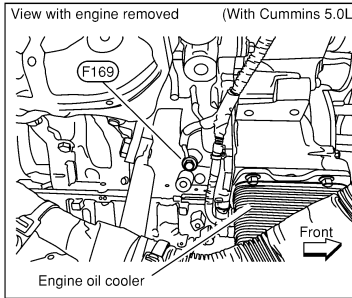
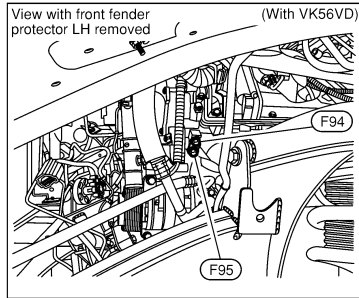


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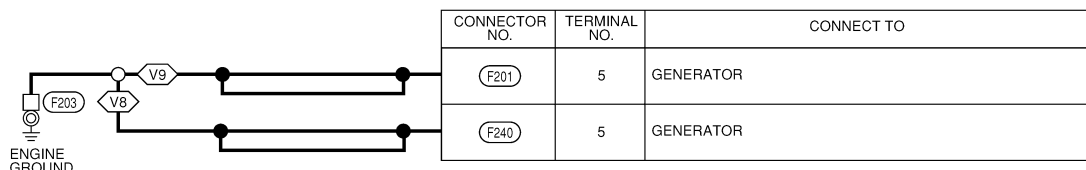
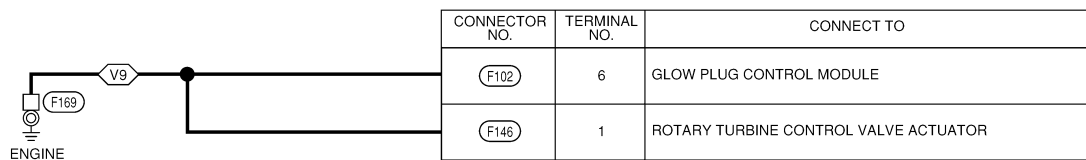
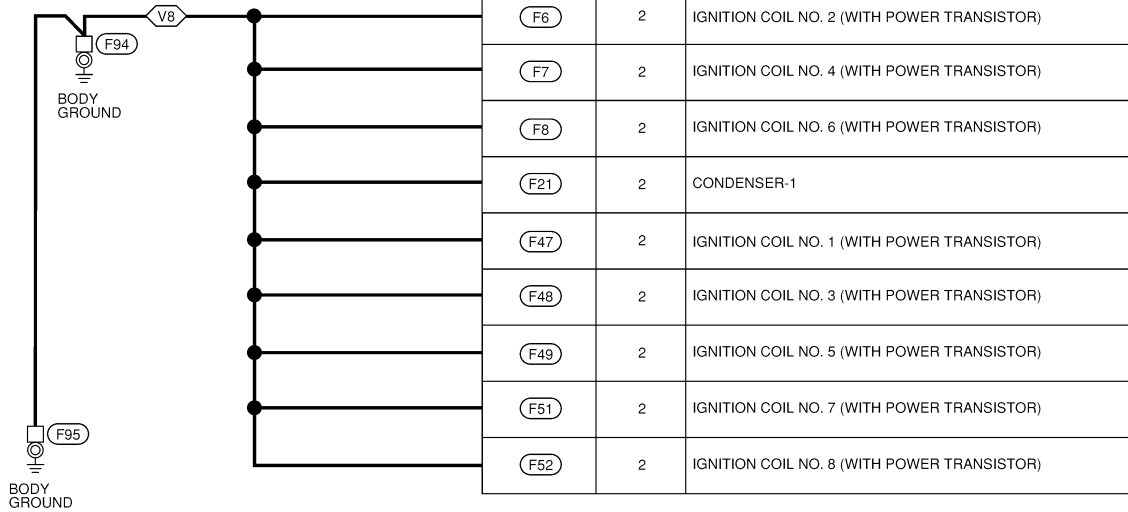
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< WIRING DIAGRAM >

ENGINE CONTROL HARNESS



V8 : WITH VK56VD
V9 : WITH Cummins 5.0L

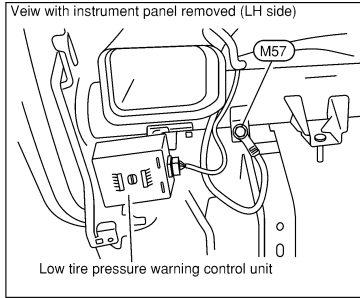


AAMIA5267GB

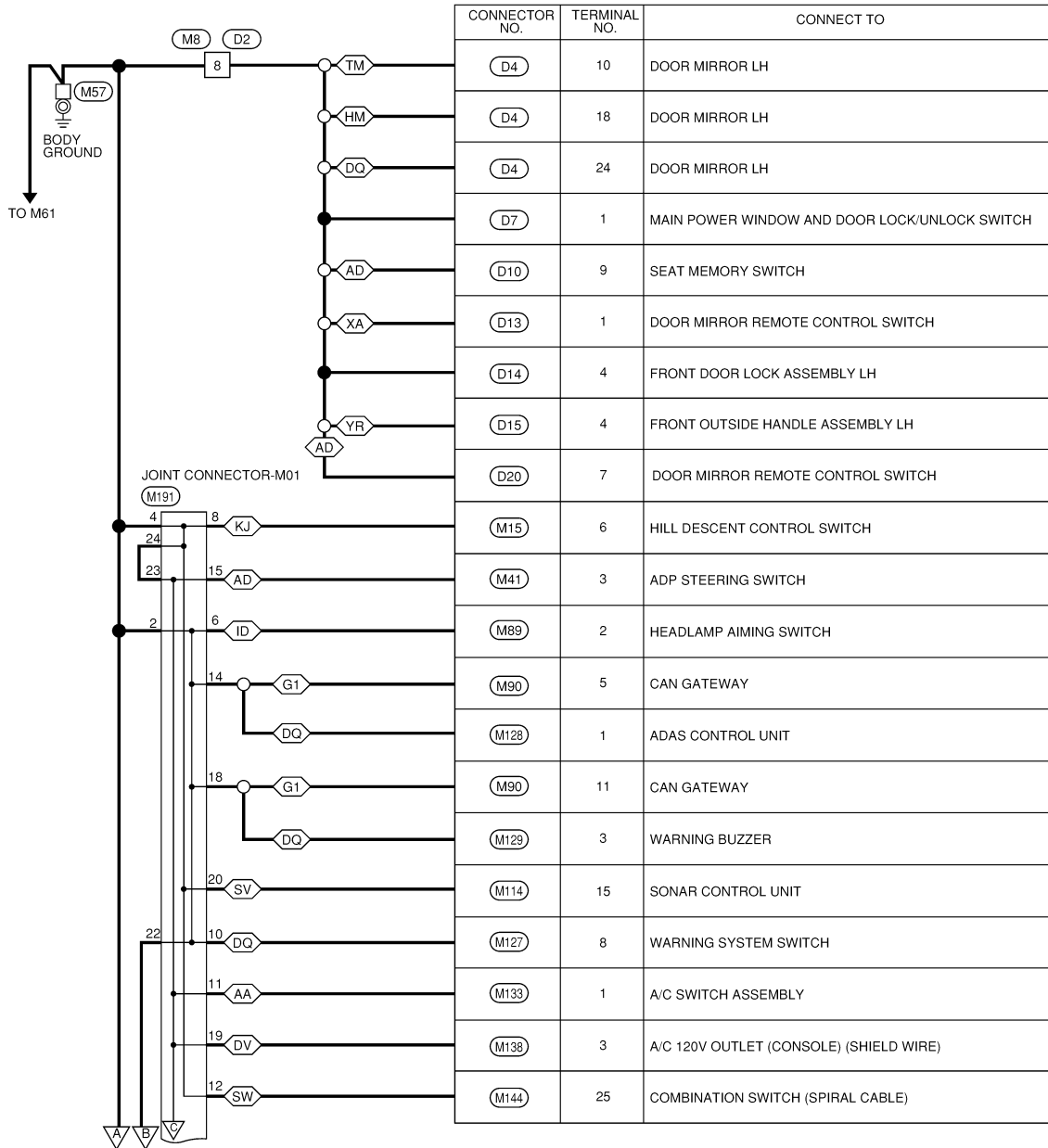
GROUND

< WIRING DIAGRAM >

MAIN HARNESS



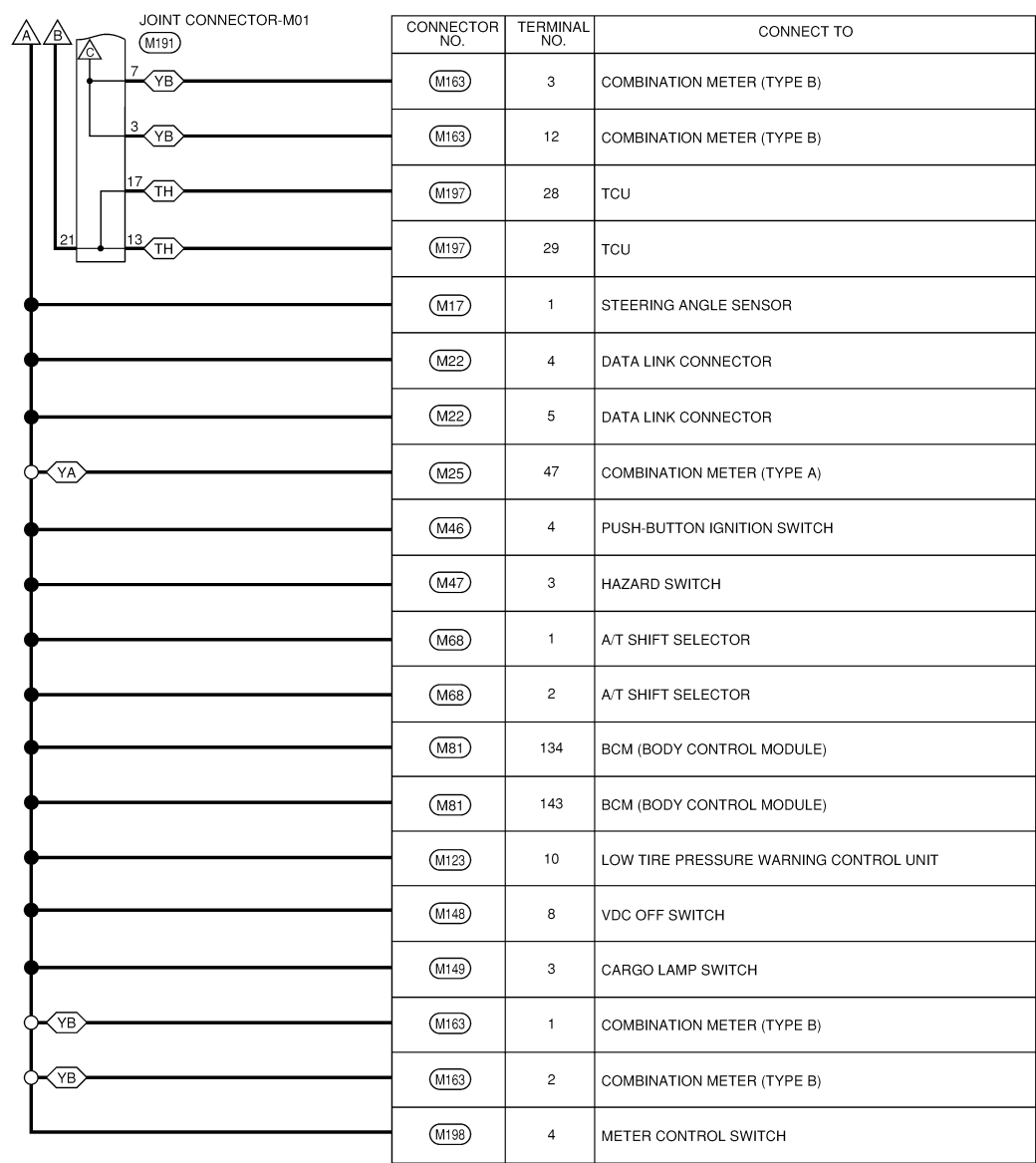
- | | |
|--|---|
| AA : WITH AUTO A/C | SV : WITH SONAR SYSTEM |
| AD : WITH AUTOMATIC DRIVE POSITIONER | SW : WITH HEATED STEERING WHEEL |
| DQ : WITH DRIVER ASSISTANCE SYSTEM | TH : WITH TELEMATICS SYSTEM |
| DV : WITH REAR AC 120V OUTLET | TM : WITH TURN SIGNAL IN MIRROR |
| G1 : WITH CAN GATEWAY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



AAMIA5268GB

GROUND

< WIRING DIAGRAM >

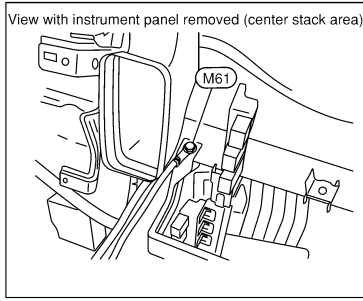


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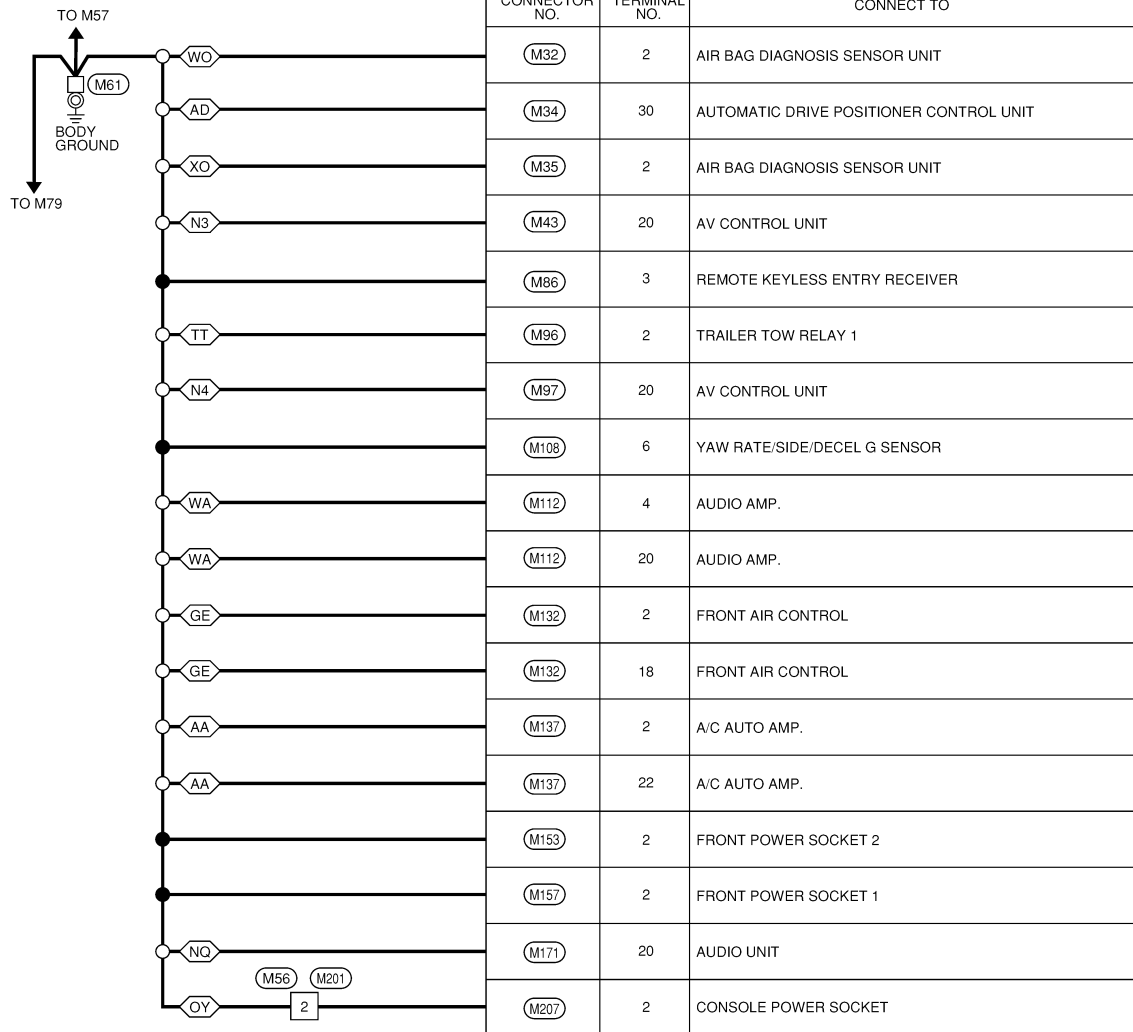
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< WIRING DIAGRAM >



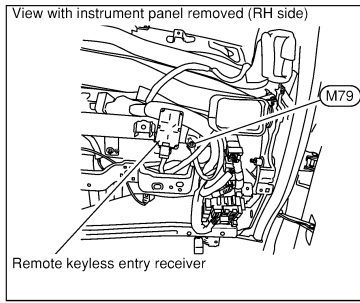
- <AA> : WITH AUTO A/C
- <AD> : WITH AUTOMATIC DRIVE POSITIONER
- <GE> : WITH MANUAL A/C
- <N3> : NAVIGATION SYSTEM WITH AUDIO AMPLIFIER
- <N4> : NAVIGATION SYSTEM WITHOUT AUDIO AMPLIFIER
- <NQ> : WITH DISPLAY AUDIO SYSTEM
- <OY> : WITH CONSOLE POWER SOCKET
- <TT> : WITH TRAILER TOW
- <WA> : WITH AUDIO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



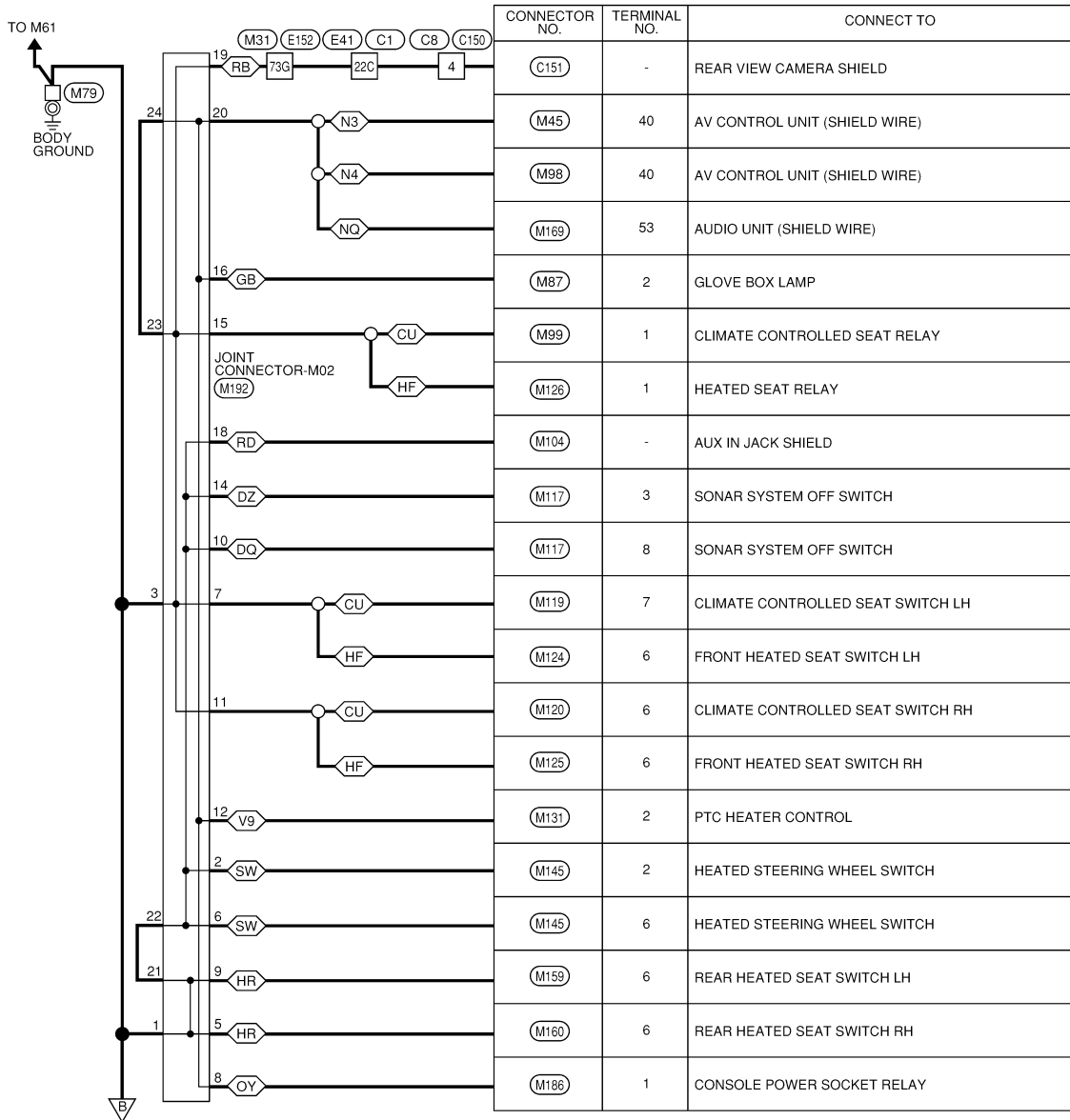
AAMIA5270GB

GROUND

< WIRING DIAGRAM >



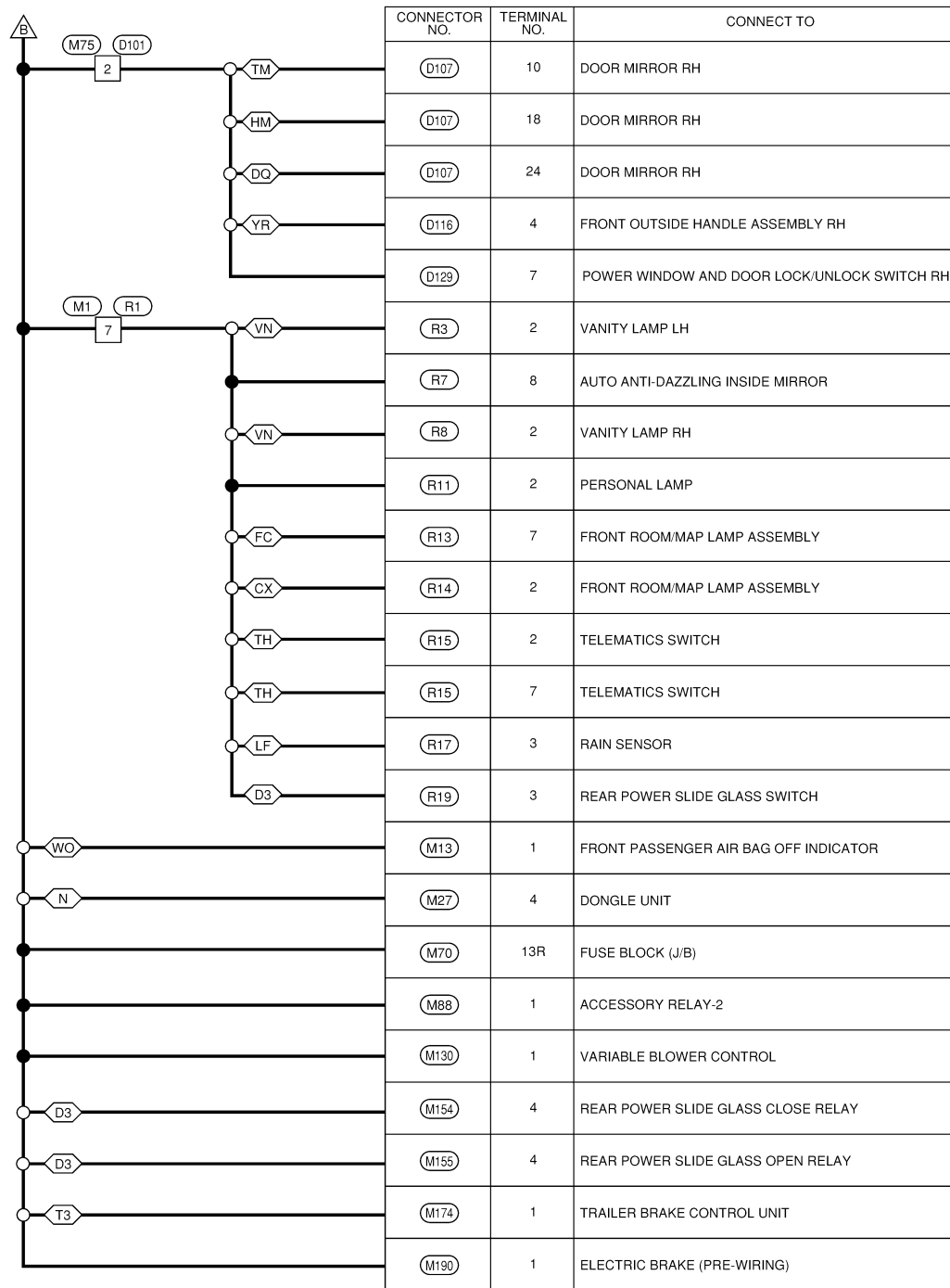
- D3 : WITH POWER REAR GLASS
- CU : WITH CLIMATE CONTROLLED SEAT
- CX : WITHOUT FRONT ROOF CONSOLE
- DQ : WITH DRIVER ASSISTANCE SYSTEM
- DZ : WITHOUT DRIVER ASSISTANCE SYSTEM
- FC : WITH FRONT ROOF CONSOLE
- GB : WITH GLOVE BOX LAMP
- HF : WITH FRONT HEATED SEATS
- HM : WITH HEATED MIRRORS
- HR : WITH 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 VIEW 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
- V9 : WITH Cummins 5.0L
- VN : WITH VANITY LAMPS
- WO : WITH OCCUPANT CLASSIFICATION SYSTEM
- YR : WITH REQUEST SWITCH



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GROUND

< WIRING DIAGRAM >



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HARNESS

< WIRING DIAGRAM >

HARNESS

Harness Layout

INFOID:0000000014388659

HOW TO READ HARNESS LAYOUT

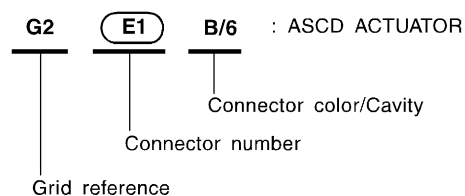
The following Harness Layouts use a map style grid to help locate connectors on the drawings:

- 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) - For non XD models
- Engine Room Harness and Front Sonar Sensor Sub-harness (VK56VD) - For XD models
- 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.

Example:



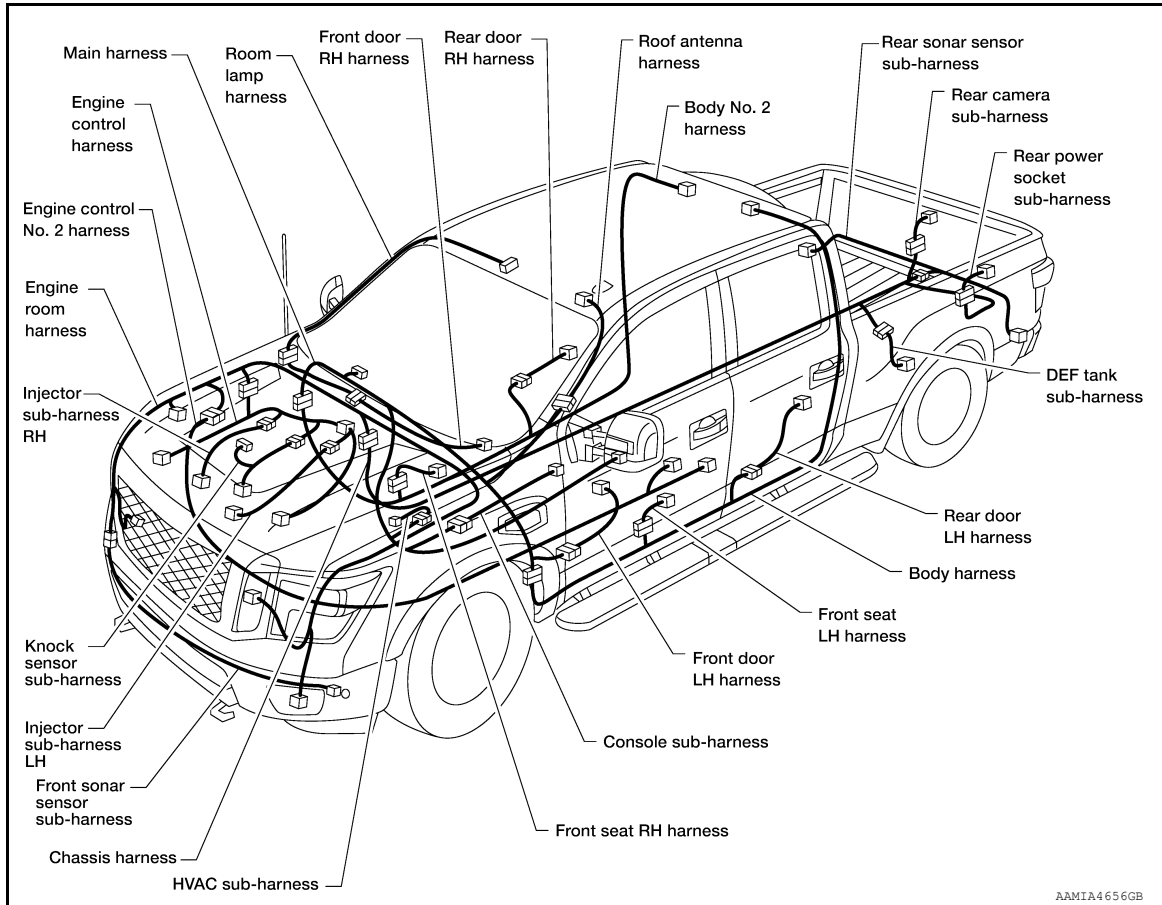
SEL252V

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HARNESS

< WIRING DIAGRAM >

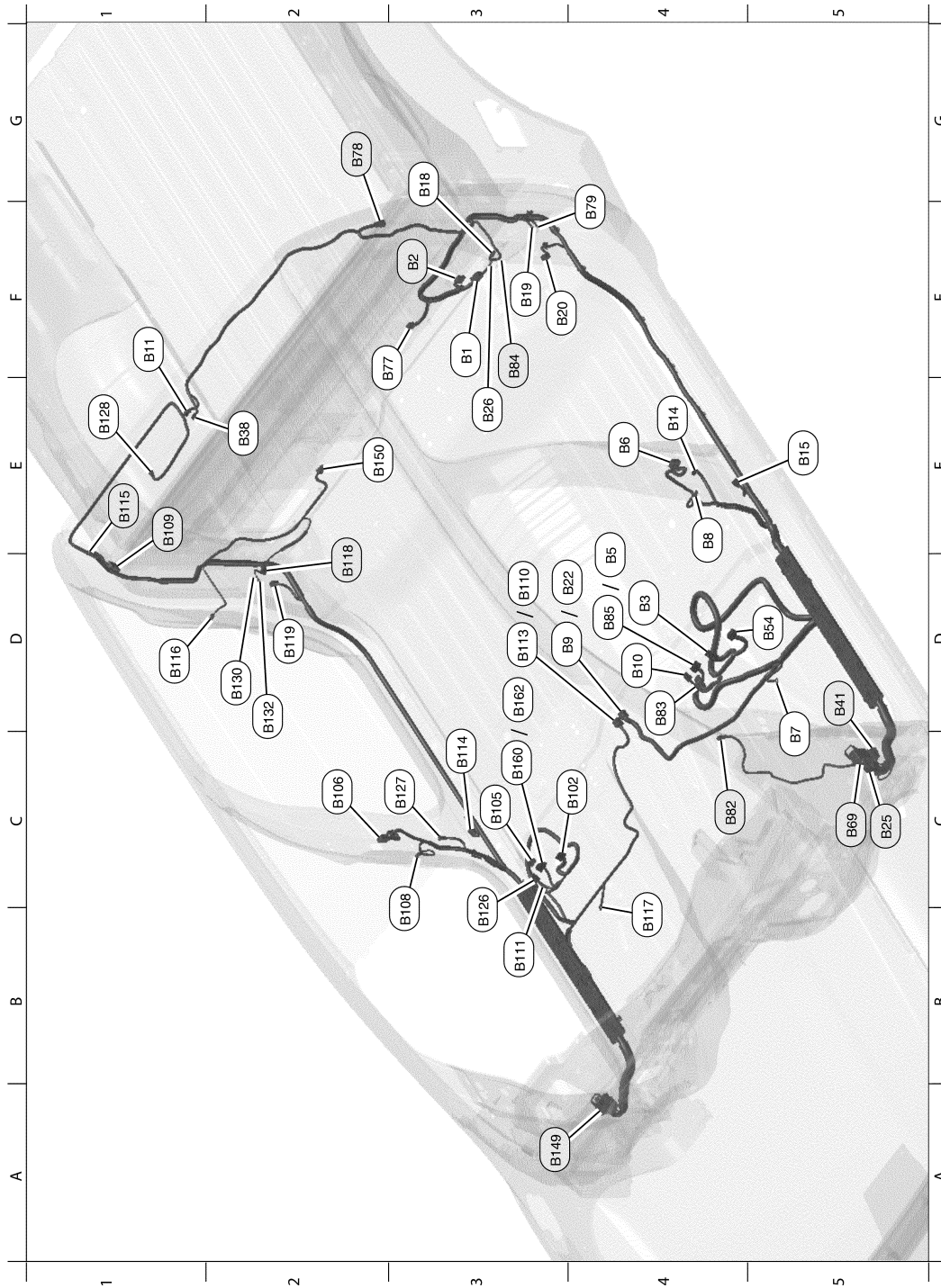
OUTLINE (CREW CAB MODELS)



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< WIRING DIAGRAM >

BODY HARNESS (CREW CAB MODELS)



AAMIA07782Z

F3	B1	B/2	: Inverter unit	F3	B84	W/3	: Rear seat heater LH
F3	B2	W/12	: Inverter unit	D4	B85	W/12	: To B200
D4	B3	W/16	: To B236	Body No. 2 Harness			
E4	B5	W/6	: To B211	C4	B102	W/24	: To B320
E4	B6	W/18	: To D201	C3	B105	W/4	: Subwoofer

HARNESS

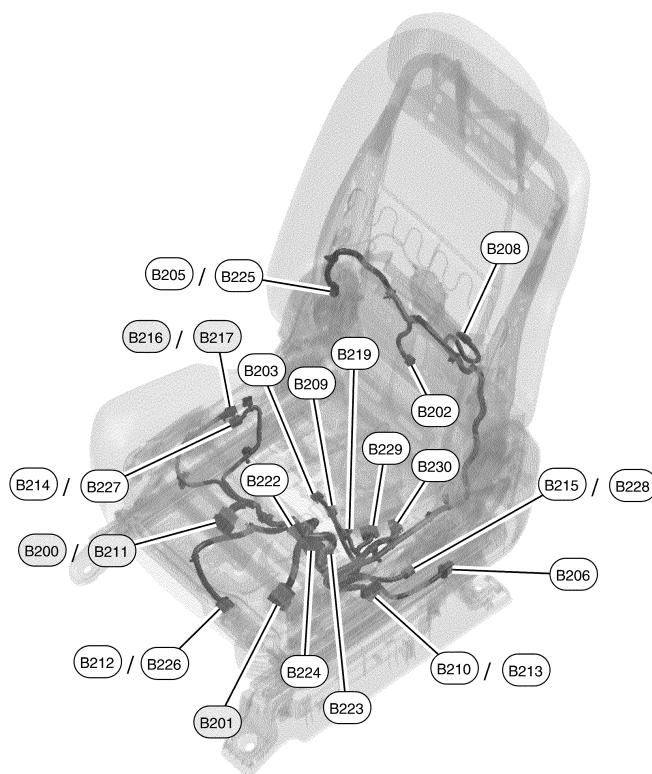
< WIRING DIAGRAM >

C5	B7	—	: Body ground	C2	B106	W/18	: To D301
E4	B8	W/4	: Front door switch LH	C3	B108	W/4	: Front door switch RH
D4	B9	Y/22	: Air bag diagnosis sensor unit (Without occupant classification system)	D1	B109	W/3	: To C160
D4	B10	Y/2	: Side air bag module LH	D3	B110	Y/22	: Air bag diagnosis sensor unit (With occupant classification system)
F1	B11	W/3	: High-mounted stop lamp assembly	B3	B111	W/4	: To B319
E4	B14	Y/2	: Front LH seat belt pre-tensioner	D3	B113	Y/22	: Air bag diagnosis sensor unit (Without occupant classification system)
E5	B15	Y/2	: Front side air bag satellite sensor LH	C3	B114	Y/2	: Front side air bag satellite sensor RH
G3	B18	W/4	: Rear door switch LH	E1	B115	W/2	: Rear window defogger RH
F3	B19	—	: Body ground	D1	B116	W/4	: Rear door switch RH
F3	B20	Y/2	: Rear side air bag satellite sensor LH	B4	B117	—	: Body ground
D4	B22	Y/22	: Air bag diagnosis sensor unit (With occupant classification system)	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
D4	B83	W/40	: Around view monitor control unit				

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< WIRING DIAGRAM >

FRONT SEAT LH HARNESS



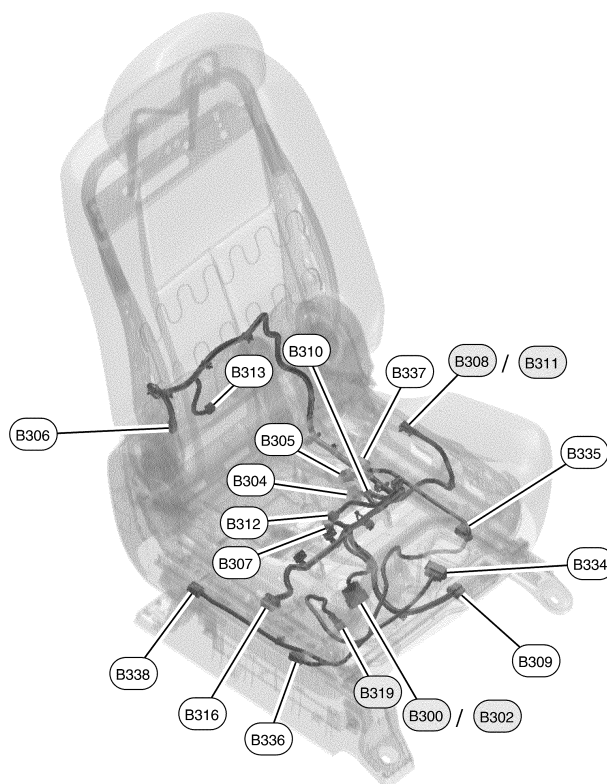
AAMIA0602ZZ

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/6	: 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

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< WIRING DIAGRAM >

FRONT SEAT RH HARNESS



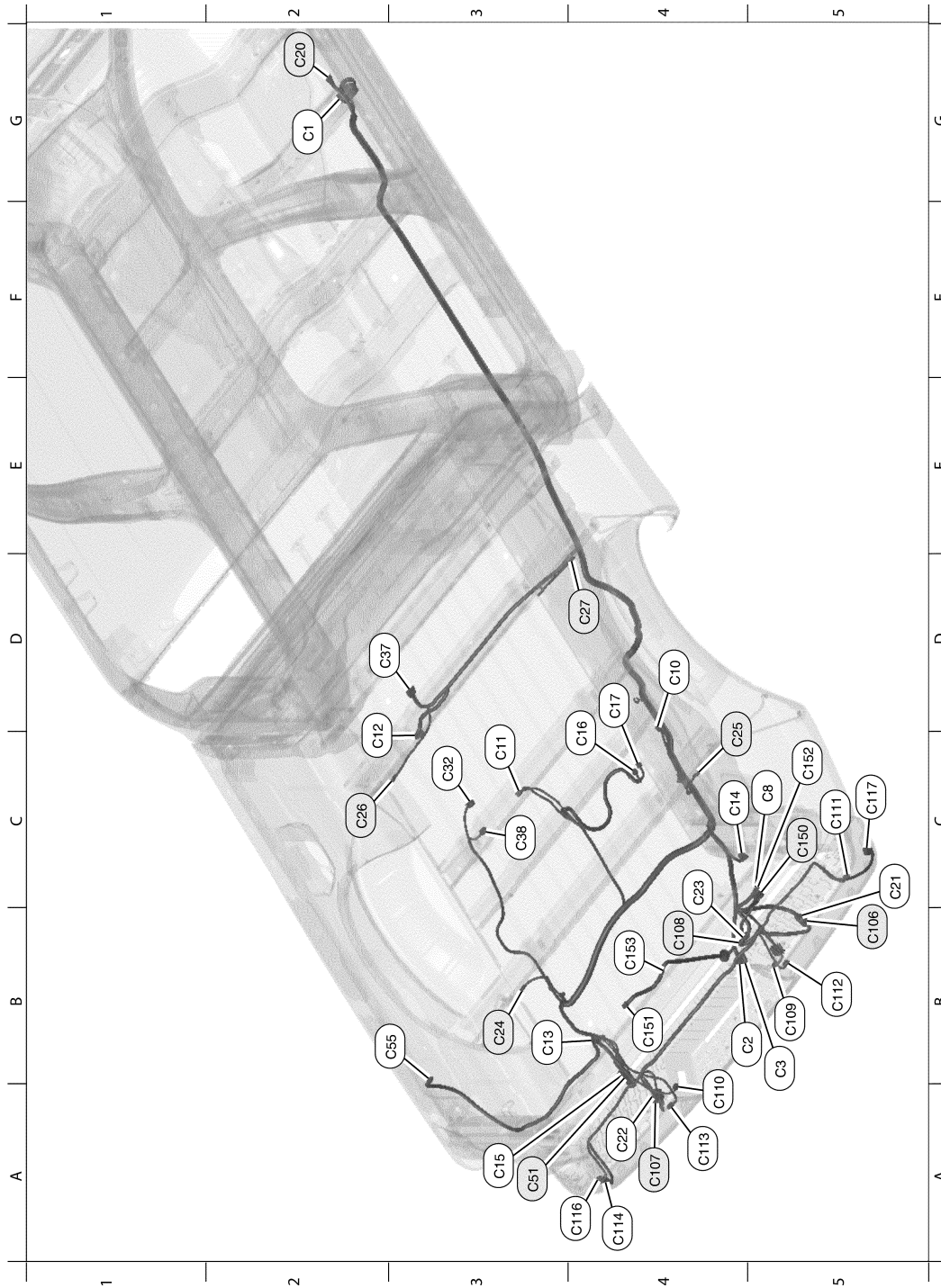
AAMIA07792Z

B300	W/12	: To B160	B312	W/4	: Seat cushion thermal electric device RH
B302	W/6	: To B162	B313	W/4	: Seat back thermal electric device RH
B304	W/24	: Climate controlled seat control unit RH	B316	W/10	: Power seat switch RH
B305	B/6	: Climate controlled seat control unit RH	B319	W/4	: To B111
B306	GR/6	: Reclining motor RH	B334	B/20	: Occupant classification system control unit
B307	W/5	: Climate controlled seat blower motor RH	B335	B/3	: Occupant classification system sensor FI
B308	W/4	: Seat belt buckle switch RH (With front passenger power seat)	B336	B/3	: Occupant classification system sensor FO
B309	GR/5	: Sliding motor RH	B337	B/3	: Occupant classification system sensor RI
B310	W/3	: Front seat heater RH	B338	B/3	: Occupant classification system sensor RO
B311	W/4	: Seat belt buckle switch RH (Without front passenger power seat)			

HARNESS

< WIRING DIAGRAM >

CHASSIS HARNESS (VK56VD)



AAMIA07802Z

G2	C1	GR/52	: To E41	C3	C38	B/2	: EVAP canister vent control valve
B5	C2	B/7	: Trailer	Rear Power Socket Sub-harness			
B5	C3	B/7	: Trailer receptacle	A3	C51	GR/4	: To C15
C5	C8	B/6	: To C150	B3	C55	GR/4	: Rear A/C 120V outlet (Bed)
D4	C10	GR/2	: Rear wheel sensor RH	Rear Sonar Sensor Sub-harness			

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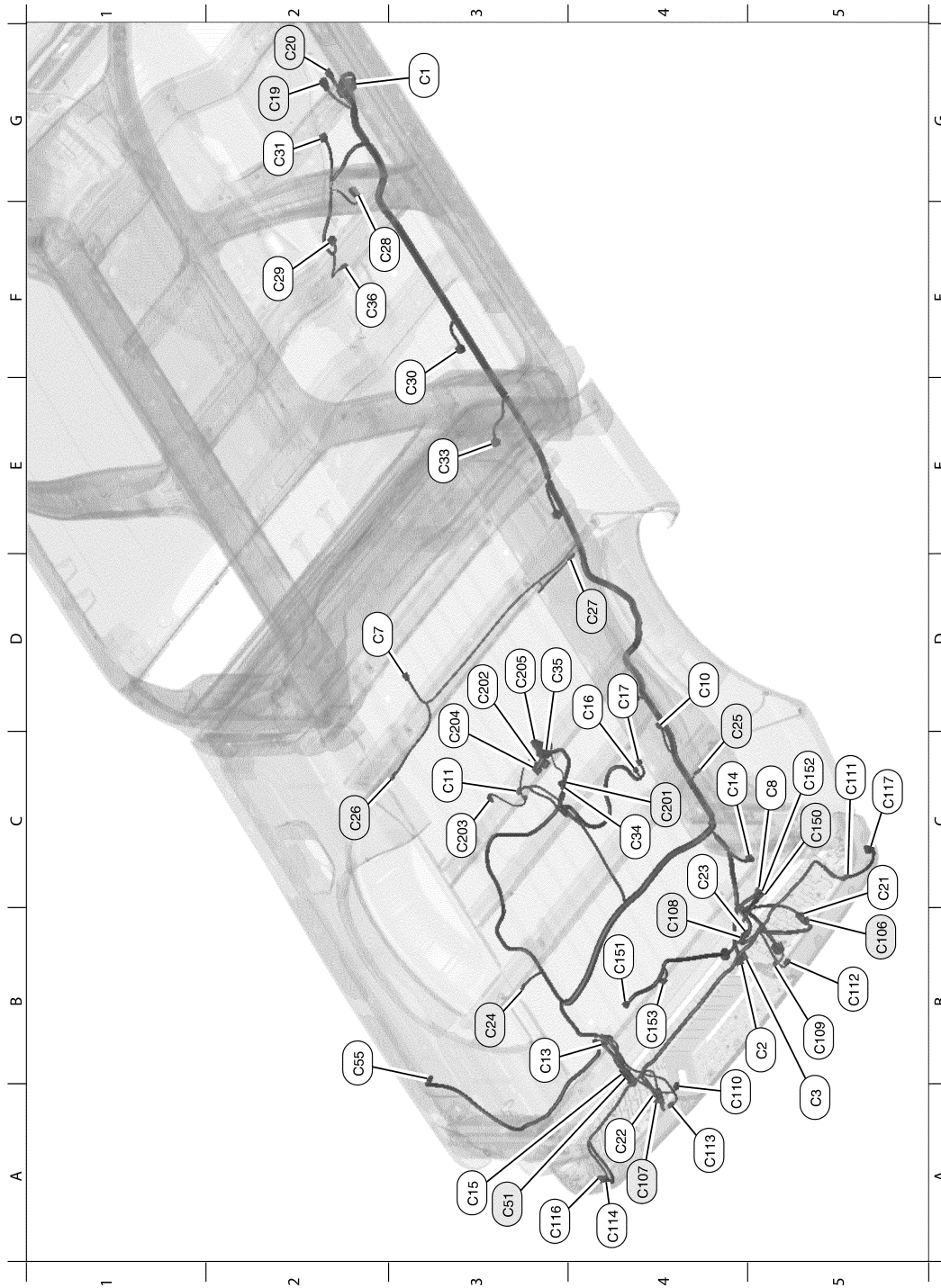
< WIRING DIAGRAM >

C3	C11	B/2	: Rear wheel sensor LH	B5	C106	W/8	: To C21
C2	C12	GR/6	: Fuel pump control module (FPCM)	A4	C107	W/2	: To C22
B3	C13	GR/8	: Rear combination lamp LH	B4	C108	B/12	: To C23
C4	C14	GR/8	: Rear combination lamp RH	B5	C109	B/2	: License plate lamp RH
A3	C15	GR/4	: To C51	A4	C110	B/2	: License plate lamp LH
D4	C16	GR/2	: Differential lock position switch	C5	C111	B/3	: Rear sonar sensor RH outer
D4	C17	B/2	: Differential lock solenoid	B5	C112	B/3	: Rear sonar sensor RH inner
G2	C20	B/12	: To E51	A4	C113	B/3	: Rear sonar sensor LH inner
C5	C21	W/8	: To C106	A4	C114	B/3	: Rear sonar sensor LH outer
A4	C22	W/2	: To C107	A4	C116	B/8	: Side radar LH
C4	C23	B/12	: To C108	C5	C117	B/8	: Side radar RH
B3	C24	B/2	: Rear bed lamp LH	Rear Camera Sub-harness			
C4	C25	B/2	: Rear bed lamp RH	C5	C150	B/6	: To C8
C2	C26	B/2	: Front bed lamp LH	B4	C151	B/4	: Rear view camera
D4	C27	B/2	: Front bed lamp RH	C5	C152	B/7	: To C166
C3	C32	GR/3	: EVAP control system pressure sensor	B4	C153	B/2	: Tailgate lock actuator
D2	C37	GR/6	: Fuel level sensor unit and fuel pump				

HARNESS

< WIRING DIAGRAM >

CHASSIS HARNESS (Cummins 5.0L)



AAMIA07812Z

G3	C1	GR/52	: To E41	F2	C36	BR/2	: DEF dosing valve
B5	C2	B/7	: Trailer	Rear Power Socket Sub-harness			
B5	C3	B/7	: Trailer receptacle	A3	C51	GR/4	: To C15
D2	C7	GR/2	: Fuel level sensor	B2	C55	GR/4	: Rear A/C 120V outlet (Bed)
C5	C8	B/6	: To C150	Rear Sonar Sensor Sub-harness			

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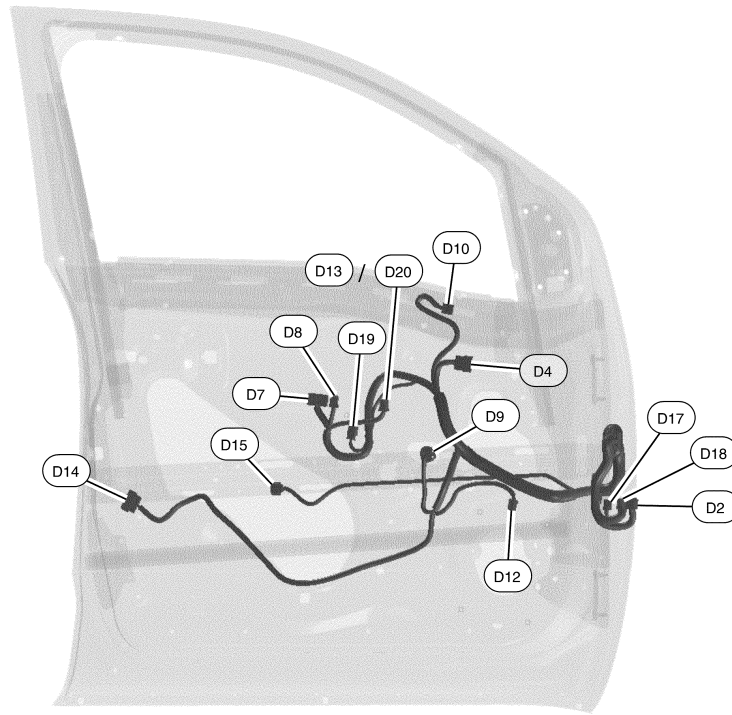
< WIRING DIAGRAM >

D4	C10	GR/2	: Rear wheel sensor RH	B5	C106	W/8	: To C21
C3	C11	B/2	: Rear wheel sensor LH	A4	C107	W/2	: To C22
B3	C13	GR/8	: Rear combination lamp LH	B4	C108	B/12	: To C23
C4	C14	GR/8	: Rear combination lamp RH	B5	C109	B/2	: License plate lamp RH
A3	C15	GR/4	: To C51	A4	C110	B/2	: License plate lamp LH
D4	C16	GR/2	: Differential lock position switch	C5	C111	B/3	: Rear sonar sensor RH outer
D4	C17	B/2	: Differential lock solenoid	B5	C112	B/3	: Rear sonar sensor RH inner
G2	C19	GR/8	: To E44	A4	C113	B/3	: Rear sonar sensor LH inner
G2	C20	B/12	: To E51	A4	C114	B/3	: Rear sonar sensor LH outer
C5	C21	W/8	: To C106	A3	C116	B/8	: Side radar LH
A4	C22	W/2	: To C107	C5	C117	B/8	: Side radar RH
C4	C23	B/12	: To C108	Rear Camera Sub-harness			
B3	C24	B/2	: Rear bed lamp LH	C5	C150	B/6	: To C8
D4	C25	B/2	: Rear bed lamp RH	B4	C151	B/4	: Rear view camera
C2	C26	B/2	: Front bed lamp LH	C5	C152	B/7	: To C166
D4	C27	B/2	: Front bed lamp RH	B4	C153	B/2	: Tailgate lock actuator
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 line heater
G2	C31	W/4	: Intake NOx sensor	C3	C203	B/4	: DEF quality sensor
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
D3	C35	GR/14	: DEF control module				

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< WIRING DIAGRAM >

FRONT DOOR LH HARNESS



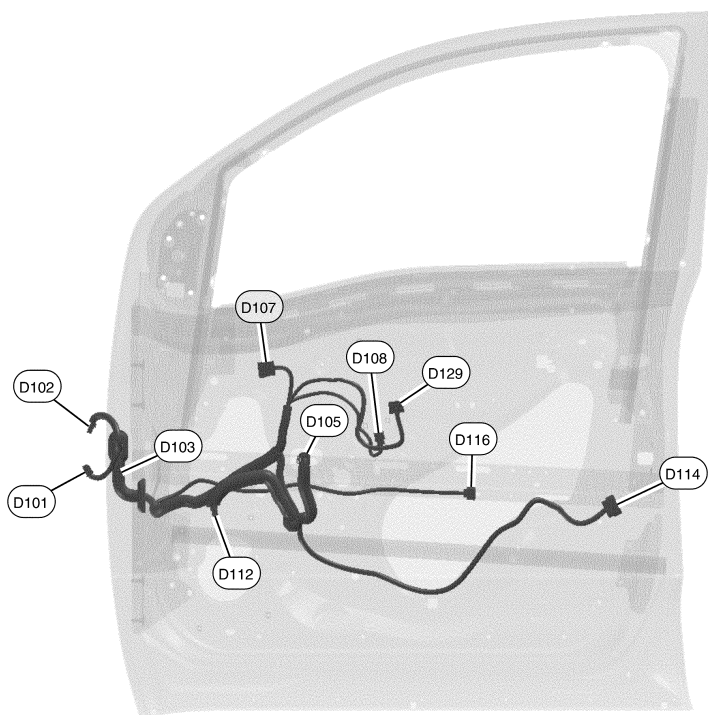
AAMIA0605ZZ

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)

HARNESS

< WIRING DIAGRAM >

FRONT DOOR RH HARNESS



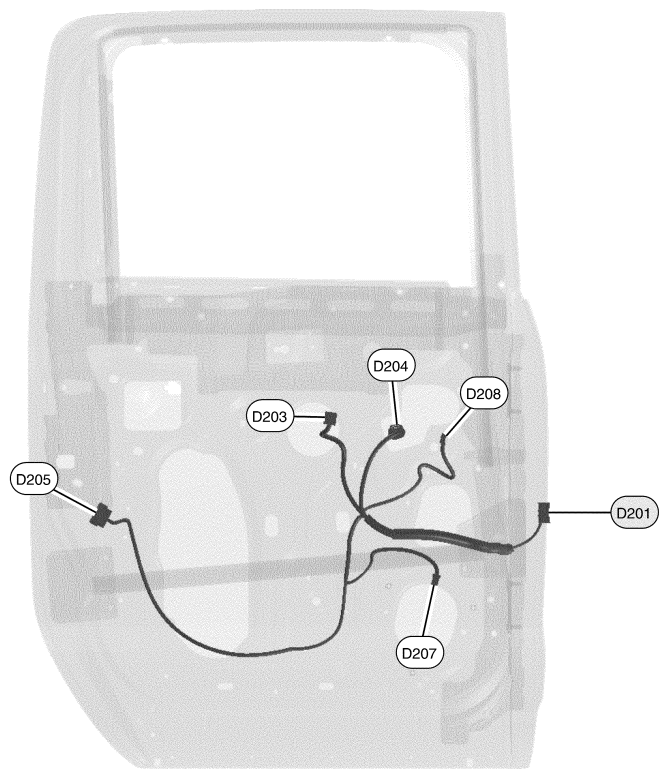
AAMIA0606ZZ

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)



AAMIA0607ZZ

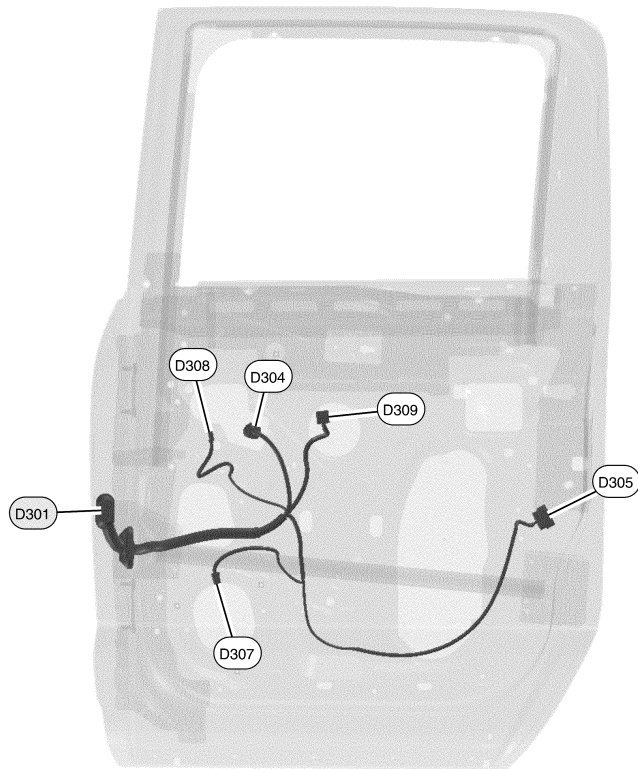
D201	W/18	: To B6	D205	GR/6	: Rear door lock actuator LH
D203	W/8	: Rear power window switch LH	D207	W/2	: Rear door speaker LH
D204	G/6	: Rear power window motor LH	D208	BR/2	: Rear door tweeter LH

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HARNESS

< WIRING DIAGRAM >

REAR DOOR RH HARNESS (CREW CAB MODELS)



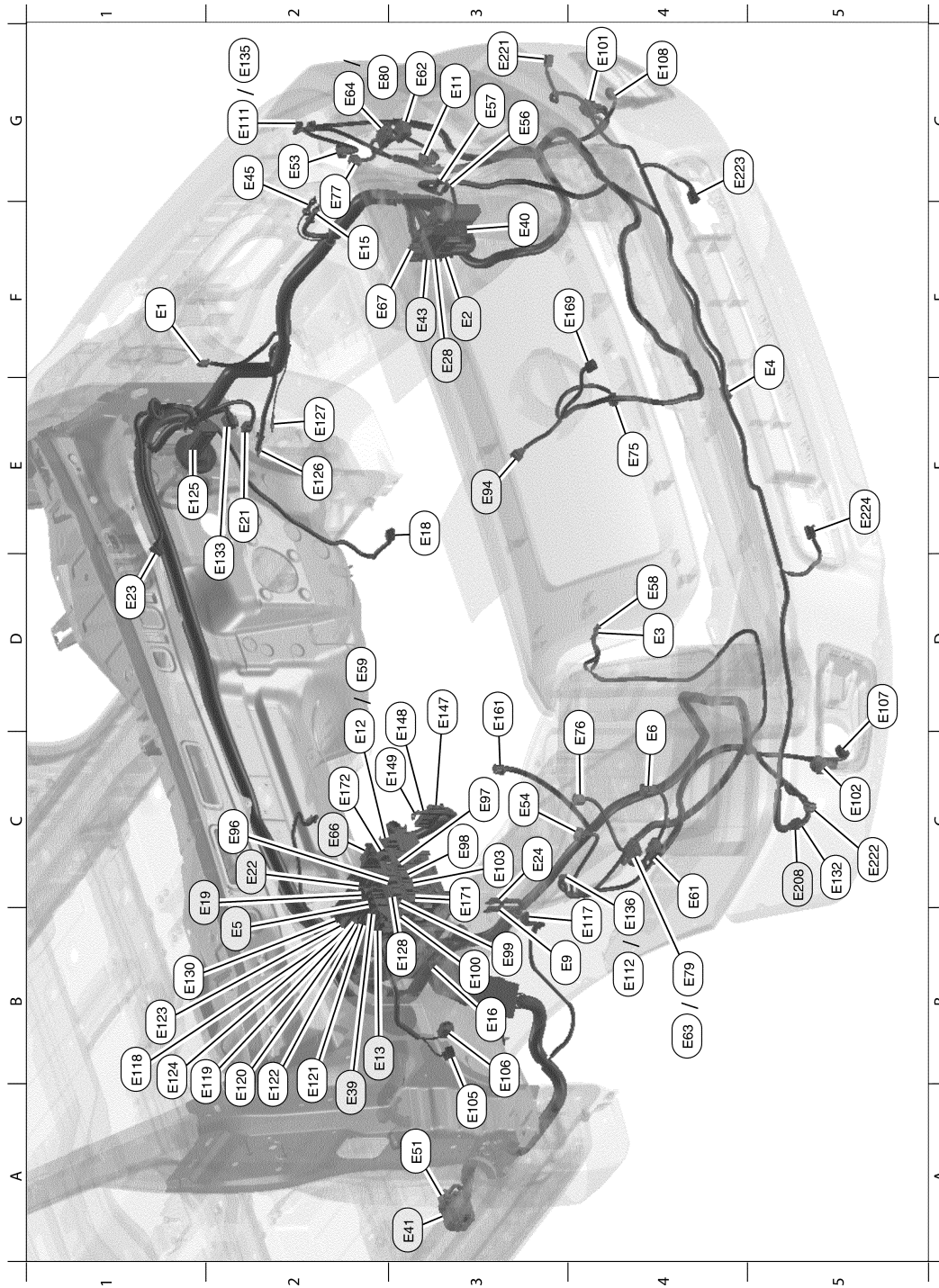
AAMIA0608ZZ

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) - FOR XD MODELS



AAMIA07822Z

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

HARNESS

< 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
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			
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
B4	E79	Y/3	: Front combination lamp RH (With LED headlamps)	C5	E222	B/3	: Front sonar sensor RH outer
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

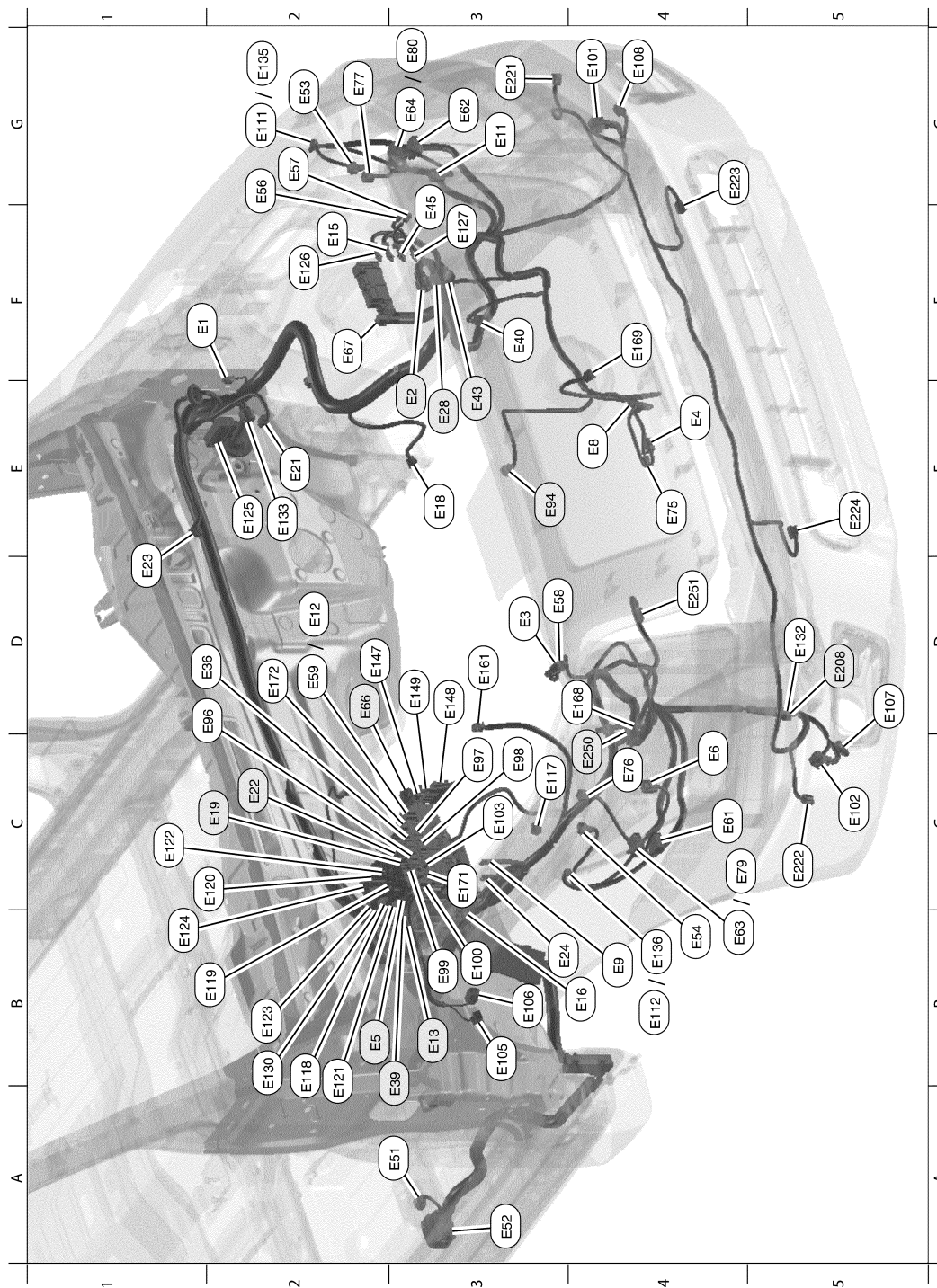
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HARNESS

< WIRING DIAGRAM >

ENGINE ROOM HARNESS (VK56VD) - FOR NON XD MODELS



AAMIA07832Z

F1	E1	BR/3	: Intelligent Key warning buzzer	C3	E97	L/4	: Trailer turn relay RH
E3	E2	GR/8	: To F32	C3	E98	L/4	: TCM (Transmission control module) relay
D3	E3	B/1	: Horn (Right)	B3	E99	BR/6	: Trailer tow relay 2
E4	E4	Y/2	: Crash zone sensor	B3	E100	L/4	: VVEL actuator motor relay
B2	E5	W/24	: To F14	G4	E101	B/2	: Front fog lamp assembly LH

HARNESS

< WIRING DIAGRAM >

C4	E6	B/2	: Front combination lamp RH (With halogen headlamps)	C5	E102	B/2	: Front fog lamp assembly RH	A
E4	E8	B/4	: Active grille shutter	C3	E103	L/4	: Daytime running light relay	
B4	E9	—	: Body ground	B3	E105	GR/2	: Front washer motor	B
G3	E11	B/2	: Front combination lamp LH (With halogen headlamps)	B3	E106	GR/2	: Washer fluid level switch	
D2	E12	L/4	: Stop lamp relay	D5	E107	GR/2	: Front fog lamp assembly RH	C
B3	E13	B/2	: Fuse and fusible link box	G4	E108	GR/2	: Front fog lamp assembly LH	
F2	E15	—	: Body ground	G2	E111	BR/2	: Front combination lamp LH (With halogen headlamps)	D
B4	E16	B/32	: ECM (With VK56VD)	B4	E112	BR/2	: Front combination lamp RH (With halogen headlamps)	
E3	E18	B/2	: Front wheel sensor LH	C3	E117	B/2	: Front wheel sensor rh	E
C2	E19	W/4	: To F33	B2	E118	B/2	: IPDM E/R (Intelligent power distribution module engine room)	F
E2	E21	B/2	: Brake fluid level switch	B2	E119	W/16	: IPDM E/R (Intelligent power distribution module engine room)	
C2	E22	B/8	: To F10	C2	E120	W/6	: IPDM E/R (Intelligent power distribution module engine room)	G
D1	E23	GR/6	: Front wiper motor	B2	E121	BR/12	: IPDM E/R (Intelligent power distribution module engine room)	
B3	E24	—	: Body ground	C1	E122	W/12	: IPDM E/R (Intelligent power distribution module engine room)	H
E3	E28	B/8	: To F19	B2	E123	BR/8	: IPDM E/R (Intelligent power distribution module engine room)	I
D1	E36	L/4	: Axle disconnect device relay	B1	E124	B/6	: IPDM E/R (Intelligent power distribution module engine room)	
B3	E39	GR/8	: To F34	E2	E125	B/46	: ABS actuator and electric unit (Control unit)	J
F3	E40	B/3	: Refrigerant pressure sensor (With VK56VD)	F2	E126	—	: Body ground	K
E3	E43	B/2	: To F24	F3	E127	—	: Body ground	
F3	E45	—	: Body ground	B2	E130	B/10	: IPDM E/R (Intelligent power distribution module engine room)	L
A3	E51	B/12	: To C20	D5	E132	B/8	: To E208	
A3	E52	GR/52	: To F209	E2	E133	B/3	: ABS actuator and electric unit (Control unit)	PG
G2	E53	B/2	: Front combination lamp LH (With halogen headlamps)	G2	E135	BR/2	: Front combination lamp LH (With LED headlamps)	
B4	E54	B/2	: Front combination lamp RH (With halogen headlamps)	B4	E136	BR/2	: Front combination lamp RH (With LED headlamps)	N
G2	E56	B/1	: Horn (Left)	D2	E147	BR/2	: Fusible link box (Battery) (With VK56VD)	
G2	E57	B/1	: Horn (Left)	D3	E148	GR/2	: Fusible link box (Battery) (With VK56VD)	O
D3	E58	B/1	: Horn (Right)	D3	E149	—	: Fusible link box (Battery) (With VK56VD)	
D2	E59	L/4	: Inverter relay	D3	E161	GR/4	: Battery current sensor	P
C4	E61	GR/16	: Front combination lamp RH (With LED headlamps)	D4	E168	GR/4	: To E250	
G3	E62	GR/16	: Front combination lamp LH (With LED headlamps)	F4	E169	B/6	: Front camera	
B4	E63	Y/3	: Front combination lamp RH (With halogen headlamps)	C3	E171	L/4	: Fuel injector relay	

HARNESS

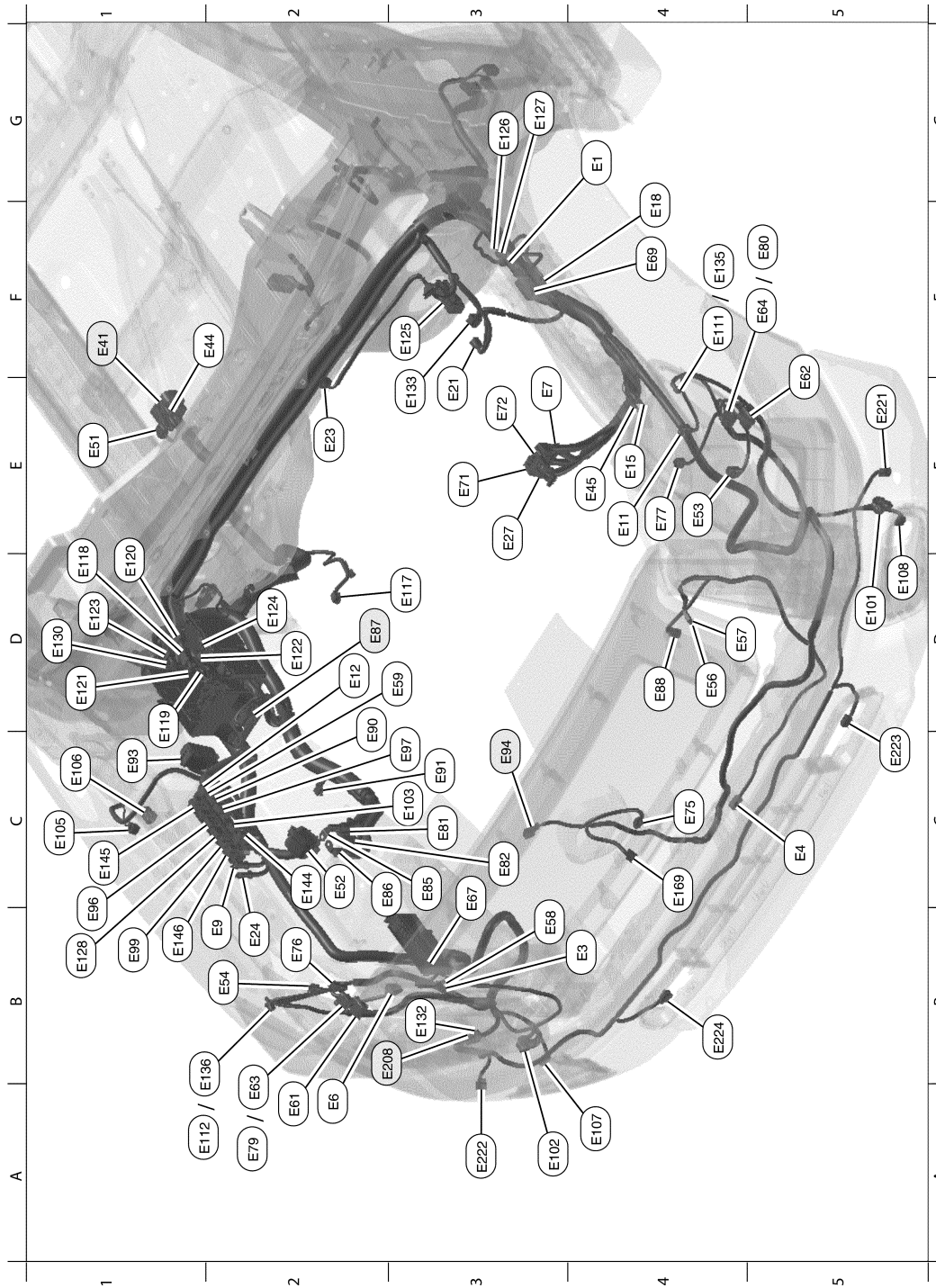
< WIRING DIAGRAM >

G3	E64	Y/3	: Front combination lamp LH (With halogen headlamps)	D2	E172	BR/6	: High pressure fuel pump and injector relay
D2	E66	GR/6	: To F223	Front Sonar Sensor Sub-harness			
F2	E67	L/4	: Bulb check relay	D5	E208	B/8	: To E132
E4	E75	B/2	: Ambient sensor	G3	E221	B/3	: Front sonar sensor LH outer
C4	E76	B/3	: Front combination lamp RH (Headlamp aiming motor)	C5	E222	B/3	: Front sonar sensor RH outer
G2	E77	B/3	: Front combination lamp LH (Headlamp aiming motor)	G4	E223	B/3	: Front sonar sensor LH inner
C4	E79	Y/3	: Front combination lamp RH (With led headlamps)	E5	E224	B/3	: Front sonar sensor RH inner
G3	E80	Y/3	: Front combination lamp LH (With led headlamps)	C4	E250	GR/4	: To E168
E3	E94	B/3	: Hood switch	D4	E251	W/4	: Axle disconnect device actuator
D2	E96	L/4	: Trailer turn relay LH				

HARNESS

< WIRING DIAGRAM >

ENGINE ROOM HARNESS (Cummins 5.0L)



AAMIA078422

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
E4	E11	B/2	: Front combination lamp LH (With halogen headlamps)	B1	E99	BR/6	: Trailer tow relay 2
D2	E12	L/4	: Stop lamp relay	D5	E101	B/2	: Front fog lamp assembly LH
E4	E15	—	: Body ground	A3	E102	B/2	: Front fog lamp assembly RH
F4	E18	B/2	: Front wheel sensor LH	C3	E103	L/4	: Daytime running light relay
E3	E21	B/2	: Brake fluid level switch	C1	E105	GR/2	: Front washer motor
E2	E23	GR/6	: Front wiper motor	C1	E106	GR/2	: Washer fluid level switch
B2	E24	—	: Body ground	A4	E107	GR/2	: Front fog lamp assembly RH
E3	E27	BR/2	: Fusible link box LH (Battery)	D5	E108	GR/2	: Front fog lamp assembly LH
F1	E41	GR/52	: To C1	F4	E111	BR/2	: Front combination lamp LH (With halogen headlamps)
F2	E44	GR/8	: To C19	A1	E112	BR/2	: Front combination lamp RH (With halogen headlamps)
E4	E45	—	: Body ground	D3	E117	B/2	: Front wheel sensor RH
E1	E51	B/12	: To C20	D1	E118	B/2	: IPDM E/R (Intelligent power distribution module engine room)
C2	E52	GR/52	: To F209	D1	E119	W/16	: IPDM E/R (Intelligent power distribution module engine room)
E4	E53	B/2	: Front combination lamp LH (With halogen headlamps)	D1	E120	W/6	: IPDM E/R (Intelligent power distribution module engine room)
B2	E54	B/2	: Front combination lamp RH (With halogen headlamps)	D1	E121	BR/12	: IPDM E/R (Intelligent power distribution module engine room)
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				

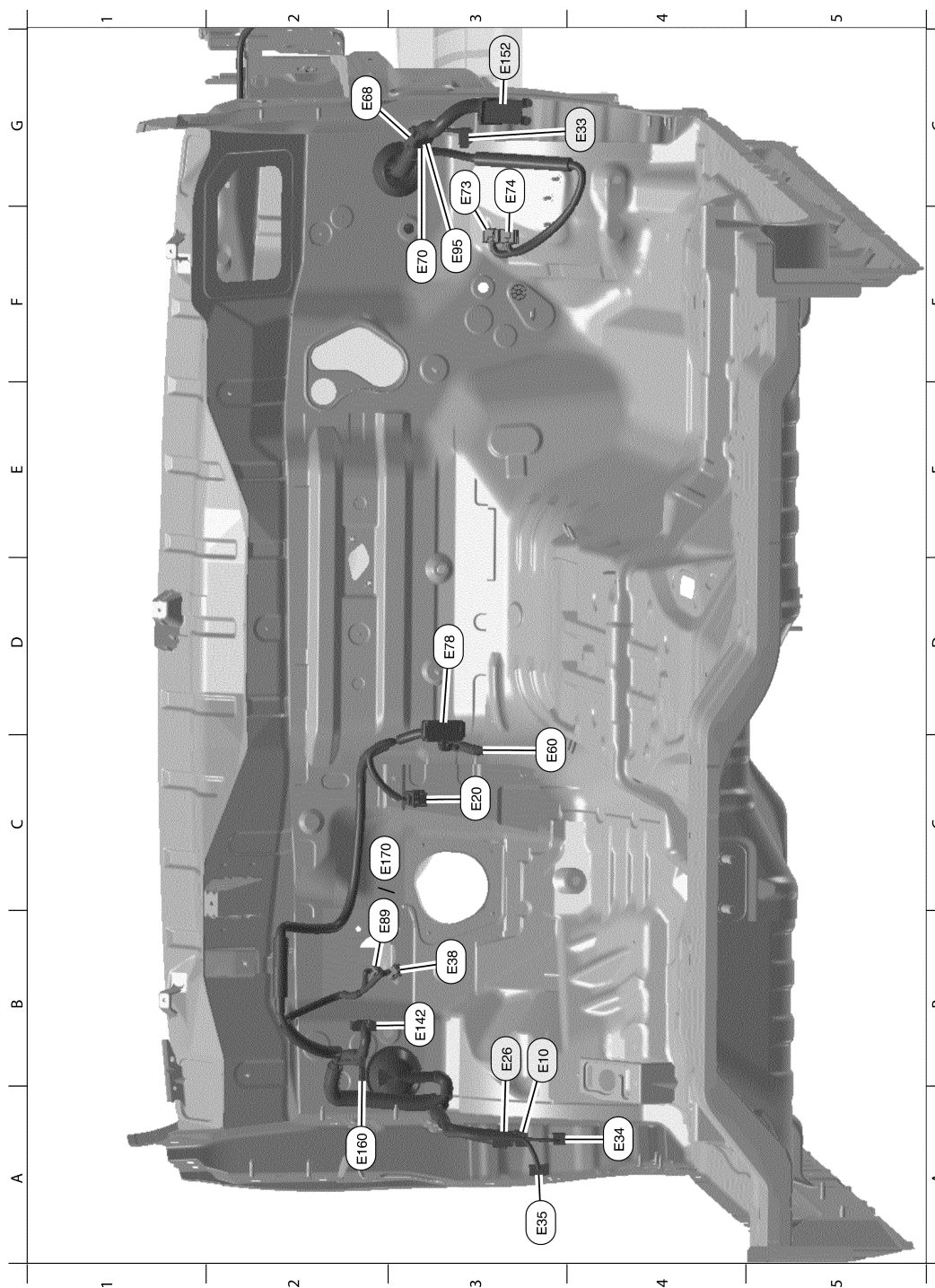
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HARNESS

< WIRING DIAGRAM >

ENGINE ROOM HARNESS (PASSENGER COMPARTMENT)



AAMIA07852Z

B3	E10	Y/4	: To M6	G3	E73	W/35	: TCM (Transmission control module) (With Cummins 5.0L)
C3	E20	B/6	: Accelerator pedal position (APP) sensor	G3	E74	W/35	: TCM (Transmission control module) (With Cummins 5.0L)
B3	E26	W/24	: To M91	D3	E78	B/5	: PTC heater
G4	E33	B/2	: To M66	B2	E89	BR/2	: ASCD cancel switch

HARNESS

< WIRING DIAGRAM >

A4	E34	B/2	: To B34	F3	E95	W/2	: Diode-4
A3	E35	W/12	: To B41	B3	E142	W/26	: Transfer control unit
B3	E38	W/4	: Stop lamp switch	G3	E152	SMJ	: To M31
C3	E60	—	: Body ground	A2	E160	B/1	: Parking brake switch
G2	E68	W/2	: Bulb check diode	C2	E170	BR/2	: Brake pedal position switch
F3	E70	W/2	: Diode-3				

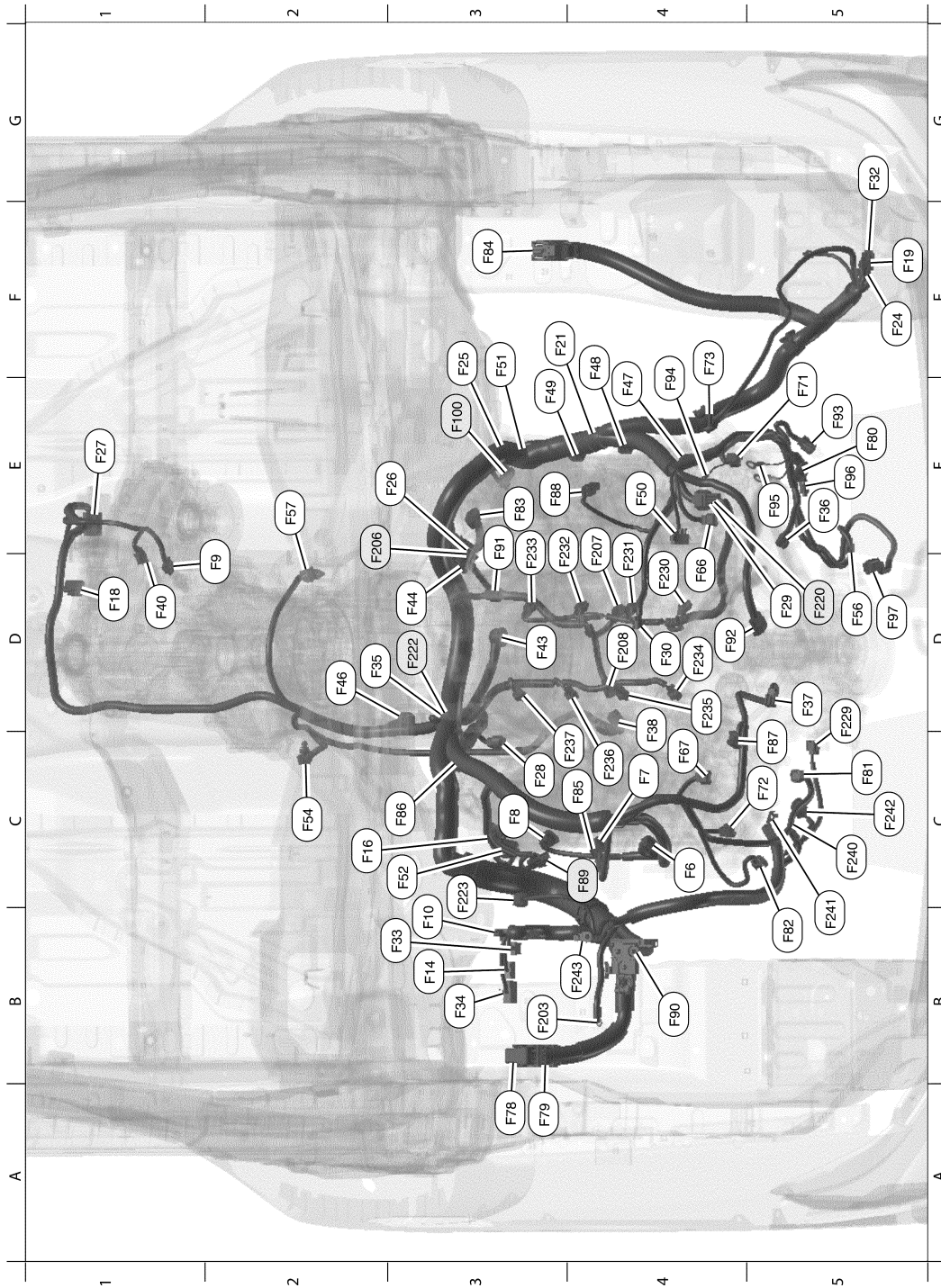
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HARNESS

< WIRING DIAGRAM >

ENGINE CONTROL HARNESS (VK56VD)



AAMIA07862Z

C4	F6	GR/3	: Ignition coil no. 2 (With power transistor)	E5	F80	G/2	: Exhaust valve timing control solenoid valve (Bank 1)
C4	F7	GR/3	: Ignition coil no. 4 (With power transistor)	C5	F81	G/2	: Exhaust valve timing control solenoid valve (Bank 2)
C3	F8	GR/3	: Ignition coil no. 6 (With power transistor)	B5	F82	B/3	: Power steering pressure sensor

HARNESS

< WIRING DIAGRAM >

D2	F9	B/3	: Range sensor (With VK56VD)	E3	F83	B/6	: VVEL control shaft position sensor (Bank 1)	A
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)	B
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	C
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)	D
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	E
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	F
C3	F28	GR/2	: Engine coolant temperature sensor 1	E4	F94	—	: Engine ground	
D5	F29	B/8	: To F220	E5	F95	—	: Engine ground	G
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)	H
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	I
D2	F35	B/8	: To F222	Knock sensor sub harness				J
E5	F36	G/2	: Intake valve timing control solenoid valve (Bank 1)	E2	F206	B/4	: To F26	
D5	F37	G/2	: Intake valve timing control solenoid valve (Bank 2)	E4	F207	GR/2	: Knock sensor (Bank 1)	K
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				L
D3	F43	—	: Starter motor (With VK56VD)	D5	F220	B/8	: To F29	
D3	F44	GR/1	: Starter motor (With VK56VD)	D4	F230	GR/2	: Fuel injector no. 1	PG
D2	F46	G/10	: A/T assembly (With VK56VD)	E4	F231	GR/2	: Fuel injector no. 3	
E4	F47	GR/3	: Ignition coil no. 1 (With power transistor)	E3	F232	GR/2	: Fuel injector no. 5	N
F4	F48	GR/3	: Ignition coil no. 3 (With power transistor)	E3	F233	GR/2	: Fuel injector no. 7	
E3	F49	GR/3	: Ignition coil no. 5 (With power transistor)	Injector sub harness RH				O
E4	F50	B/6	: Electric throttle control actuator	D3	F222	B/8	: To F35	
F3	F51	GR/3	: Ignition coil no. 7 (With power transistor)	D4	F234	GR/2	: Fuel injector no. 2	P
C3	F52	GR/3	: Ignition coil no. 8 (With power transistor)	D4	F235	GR/2	: Fuel injector no. 4	
C2	F54	GR/4	: Heated oxygen sensor 2 (Bank 2) (With VK56VD)	C4	F236	GR/2	: Fuel injector no. 6	
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	

HARNESS

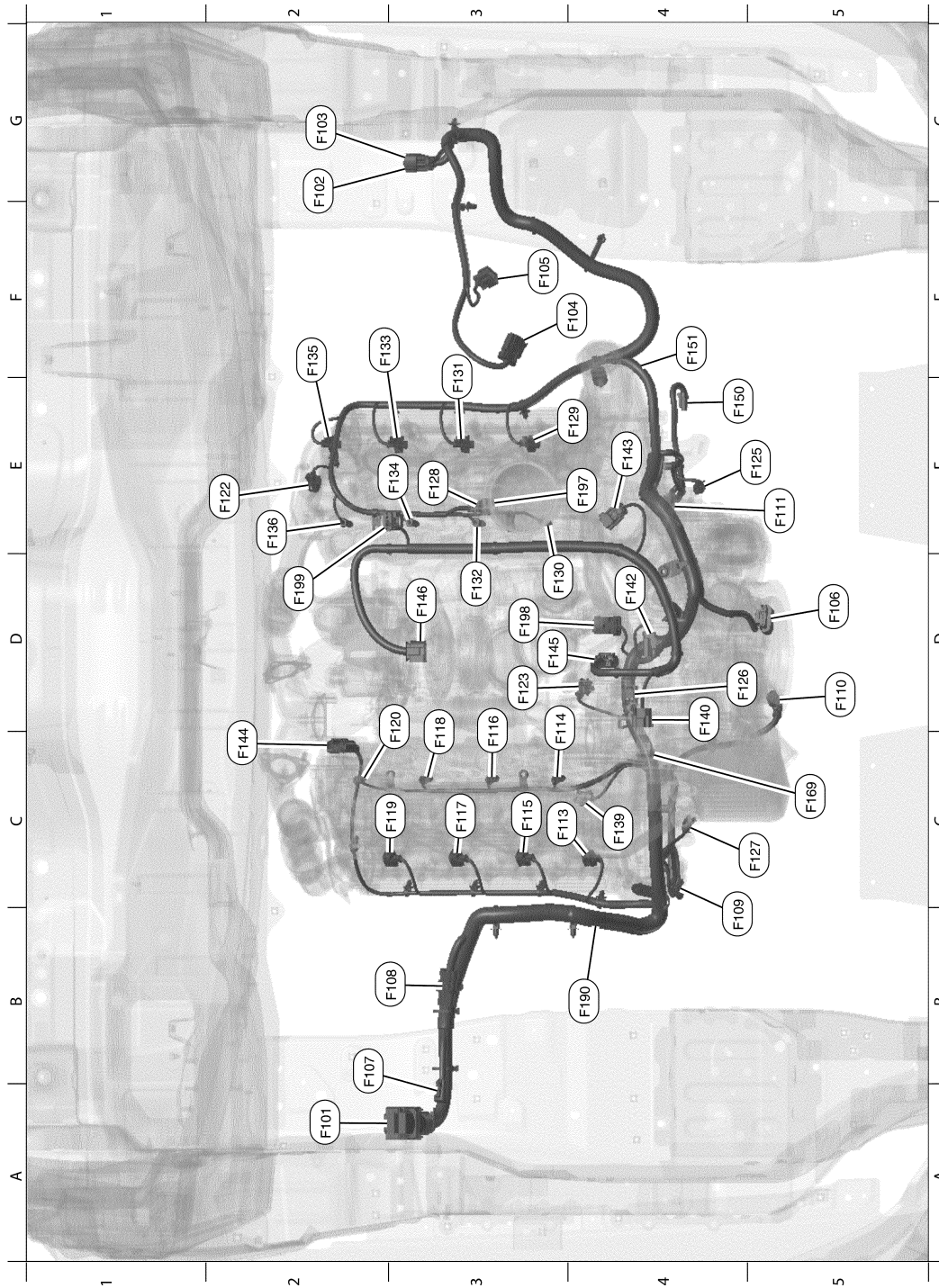
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C4	F67	B/3	: Camshaft position sensor (PHASE) (Bank 2)	D5	F229	B/3	: Engine oil pressure sensor
E5	F71	B/3	: Exhaust valve timing control position sensor (Bank 1)	C5	F240	—	: Generator (With VK56VD)
C5	F72	B/3	: Exhaust valve timing control position 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

HARNESS

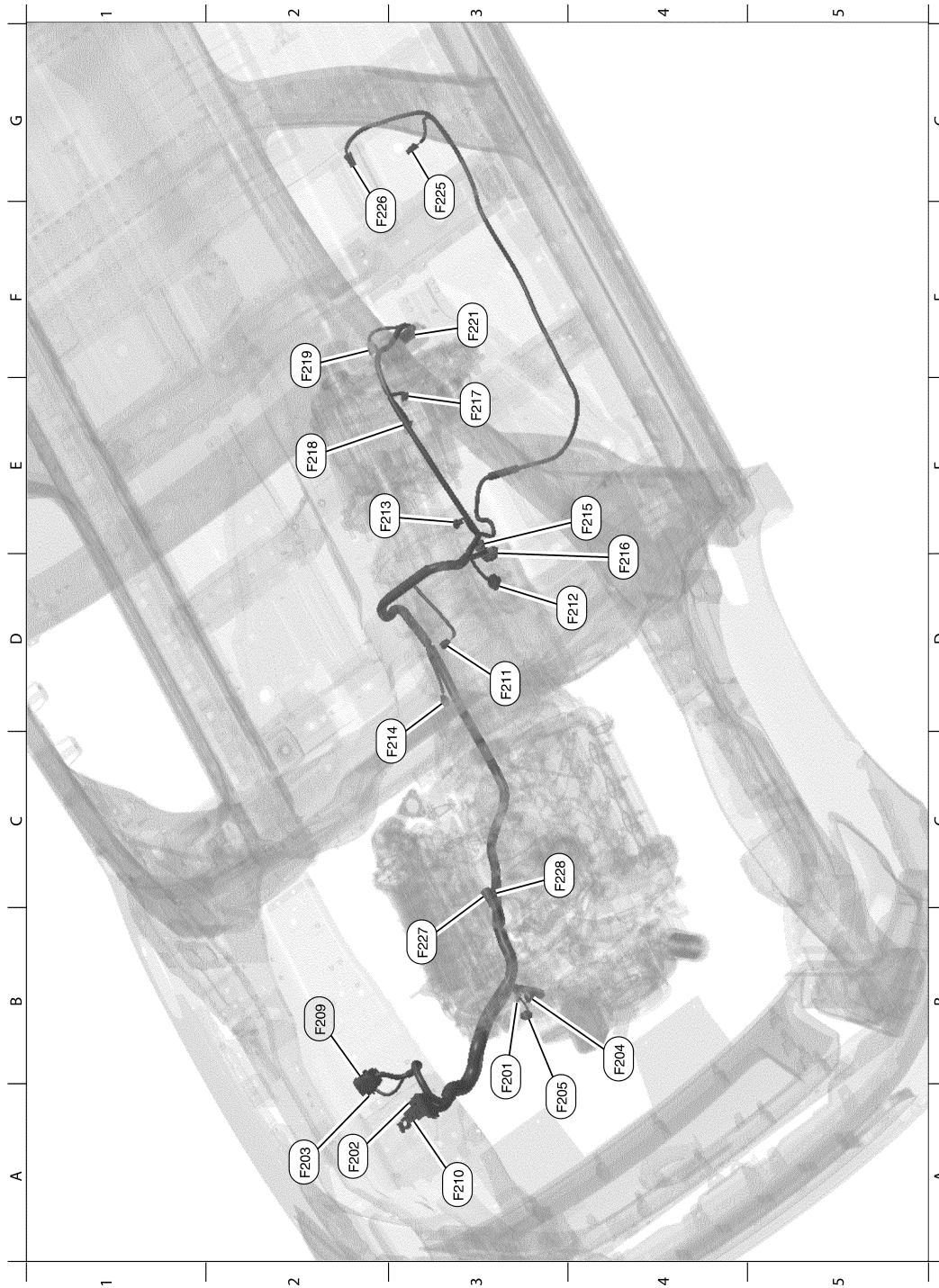
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D5	F106	B/6	: Fan clutch assembly (With Cummins 5.0L)	F2	F133	B/2	: Fuel injector no.6
B2	F107	GR/3	: Terminating resistor	E3	F134	B/1	: Glow plug no.6
B3	F108	B/6	: To E87	F2	F135	B/2	: Fuel injector no.8
B4	F109	B/3	: Camshaft position sensor	E2	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 (With Cummins 5.0L)	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 (With Cummins 5.0L)
B4	F204	—	: Generator (With Cummins 5.0L)	E2	F218	B/3	: Range sensor (With Cummins 5.0L)
A3	F205	B/3	: Generator (With Cummins 5.0L)	F2	F219	B/3	: Transfer rotary position sensor (With Cummins 5.0L)

HARNESS

< WIRING DIAGRAM >

B2	F209	GR/52	: To E52	F3	F221	B/4	: Transfer motor (With Cummins 5.0L)
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/10	: Transmission range switch	B3	F227	—	: Starter motor (With Cummins 5.0L)
E2	F213	L/2	: Output speed sensor	C3	F228	GR/1	: Starter motor (With Cummins 5.0L)
C3	F214	GR/2	: A/T fluid temperature sensor 1				

MAIN HARNESS

2017 Titan NAM

HARNESS

< WIRING DIAGRAM >

A4	M6	Y/4	: To E10	D1	M110	BR/2	: Center speaker
A3	M7	Y/4	: To D17	F1	M111	BR/2	: Front tweeter RH
A3	M8	W/16	: To D2	B4	M112	W/8	: Audio amp.
E3	M11	L/4	: Heated steering relay	B4	M113	GR/24	: Audio amp.
E2	M13	W/3	: Front passenger air bag off indicator	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/4	: Variable blower control
F1	M27	W/4	: Dongle unit	E1	M131	W/16	: 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/12	: 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
D5	M32	Y/28	: Air bag diagnosis sensor unit (With occupant classification system)	D2	M137	W/40	: A/C auto amp.
D2	M33	W/24	: Automatic drive positioner control unit	E4	M138	W/4	: A/C 120V outlet (Console)
E4	M34	W/6	: Automatic drive positioner control unit	A2	M139	W/12	: A/C 120V outlet main switch
E5	M35	Y/28	: Air bag diagnosis sensor unit (Without occupant classification system)	C3	M141	W/8	: 4WD shift switch
G4	M36	SMJ	: To B149	E1	M142	W/8	: AV control unit (With audio amplifier)
G2	M37	W/1	: Fuse block (J/B)	E1	M143	B/6	: AV control unit
G2	M38	W/1	: Fuse block (J/B)	B3	M144	W/2	: Combination switch (Spiral cable)
F3	M39	W/8	: Fuse block (J/B)	E3	M145	L/6	: Heated steering wheel switch
A3	M40	SMJ	: To B69	D2	M146	GR/5	: AV control unit
B3	M41	GR/6	: ADP steering switch	C1	M147	P/2	: AV control unit
D1	M43	W/20	: AV control unit (With audio amplifier)	C4	M148	B/8	: VDC off switch
F3	M44	W/2	: Front blower motor	B3	M149	W/6	: Cargo lamp switch
C1	M45	W/24	: AV control unit (With audio amplifier)	E2	M150	L/4	: Cargo lamp relay
C2	M46	W/8	: Push-button ignition switch	E2	M151	L/2	: AV control unit
D4	M47	W/4	: Hazard switch	D1	M152	G/6	: AV control unit (With audio amplifier)
B1	M52	W/3	: Optical sensor	E2	M153	GR/2	: Power socket 2
F5	M56	W/2	: To M201	E1	M154	B/5	: Rear power slide glass close relay
B2	M57	—	: Body ground	F2	M155	B/5	: Rear power slide glass open relay
A2	M59	G/8	: Lighting switch	C1	M156	G/6	: TCU
F3	M60	W/6	: Fuse block (J/B)	E3	M157	GR/2	: Power socket 1
E2	M61	—	: Body ground	D5	M159	W/6	: Rear heated seat switch LH
E3	M64	W/2	: Intake sensor	E5	M160	BR/6	: Rear heated seat switch RH

HARNESS

< WIRING DIAGRAM >

G3	M66	B/2	: To E33	B1	M163	W/40	: Combination meter (With type B)
B2	M68	W/8	: A/T shift selector	E1	M169	W/8	: Audio unit
F2	M69	W/10	: Fuse block (J/B)	E1	M171	W/20	: Audio unit
F3	M70	BR/16	: Fuse block (J/B)	D4	M174	W/8	: Trailer brake control unit
B3	M72	B/8	: Differential lock mode switch	D1	M175	W/32	: Audio unit
G1	M73	BR/6	: Back-up lamp relay	E1	M180	B/6	: Audio unit
G2	M74	W/32	: To D102	E2	M181	GR/5	: Audio unit
G2	M75	W/10	: To D101	C1	M184	P/2	: Audio unit
F2	M77	Y/4	: To M103	D4	M185	B/6	: USB interface
F2	M79	—	: Body ground	E1	M186	L/4	: Console power socket relay
B2	M80	B/24	: BCM (Body control module)	A1	M188	P/2	: To R108
C3	M81	W/15	: BCM (Body control module)	A2	M190	W/6	: Electric brake (Pre-wiring)
G2	M82	W/2	: Circuit breaker-1	B1	M191	W/24	: Joint connector-M01
D4	M84	GR/2	: Inside key antenna (Instrument center)	F2	M192	W/24	: Joint connector-M02
E5	M85	GR/2	: Inside key antenna (Console)	A2	M193	W/24	: Joint connector-M03
F2	M86	B/4	: Remote keyless entry receiver	C1	M194	W/24	: Joint connector-M04
F2	M87	BR/2	: Glove box lamp	C1	M197	B/40	: TCU
F2	M88	L/4	: Accessory relay-2	B2	M198	W/8	: Meter control switch
A3	M89	W/4	: Headlamp aiming switch	Console Sub-harness			
C4	M90	W/12	: CAN gateway	F5	M201	W/2	: To M56
A4	M91	W/24	: To E26	D4	M207	GR/3	: Console power socket
F3	M92	BR/2	: Front foot lamp RH	HVAC Sub-harness			
C3	M93	BR/2	: Front foot lamp LH	F1	M225	W/3	: To M95
B2	M94	W/10	: Tilt and telescopic motor	E1	M226	W/3	: Mode door motor
F1	M95	W/3	: To M225	G1	M227	W/3	: Intake door motor
E2	M96	L/5	: Trailer tow relay 1	D2	M228	W/3	: Air mix door motor LH
D1	M97	W/20	: AV control unit (Without audio amplifier)	E2	M229	W/3	: Air mix door motor RH
C1	M98	W/24	: AV control unit (Without audio amplifier)	E1	M230	W/3	: Air mix door motor

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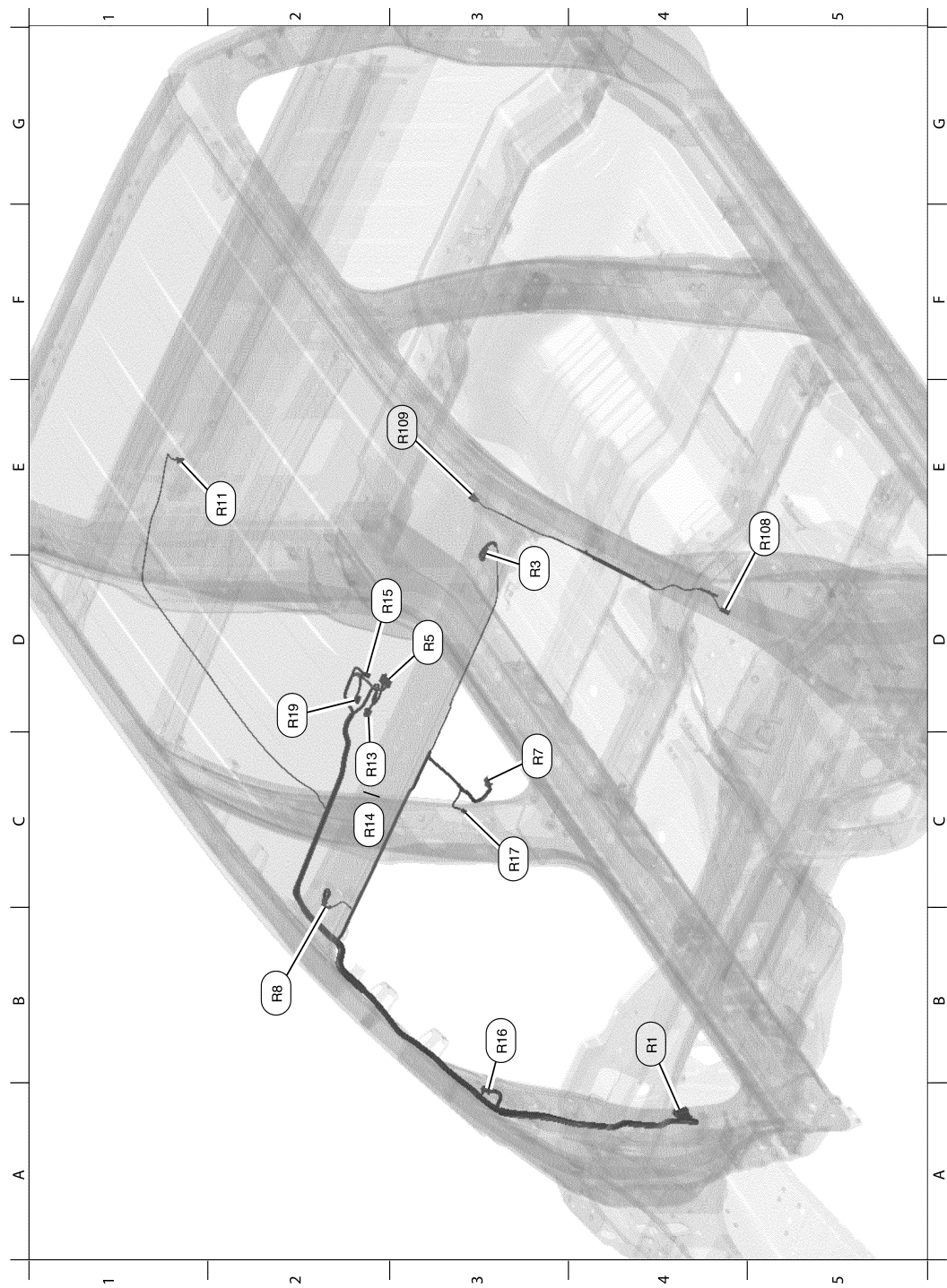
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HARNESS

< 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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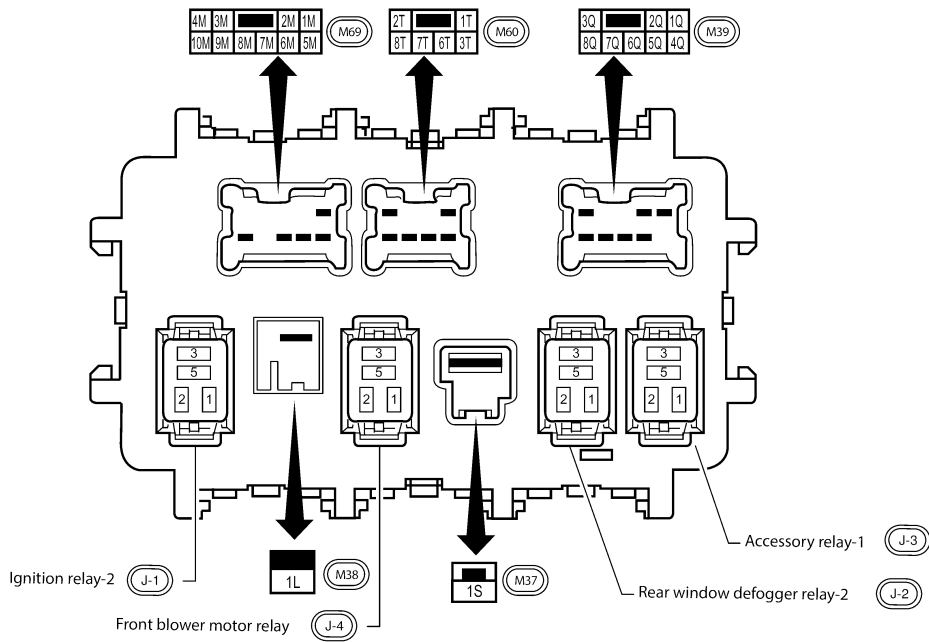
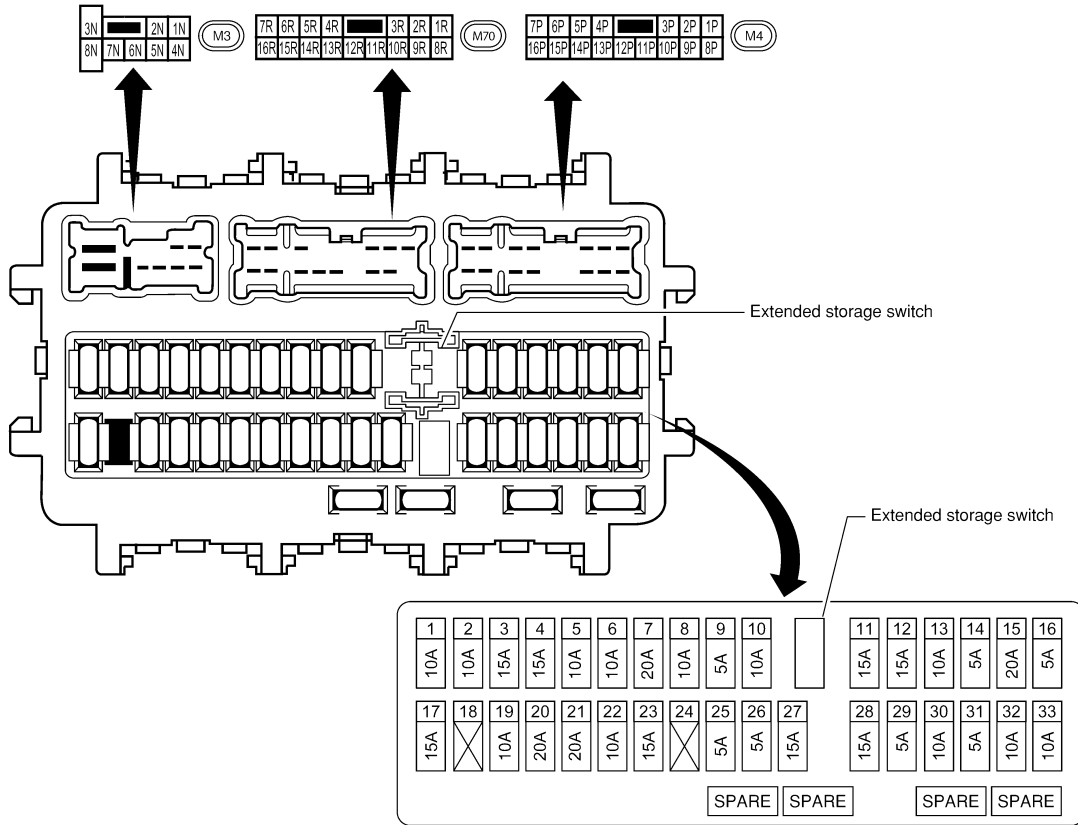
FUSE BLOCK - JUNCTION BOX (J/B)

< WIRING DIAGRAM >

FUSE BLOCK - JUNCTION BOX (J/B)

Terminal Arrangement

INFOID:000000014388660



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FUSE, FUSIBLE LINK AND RELAY BOX

< WIRING DIAGRAM >

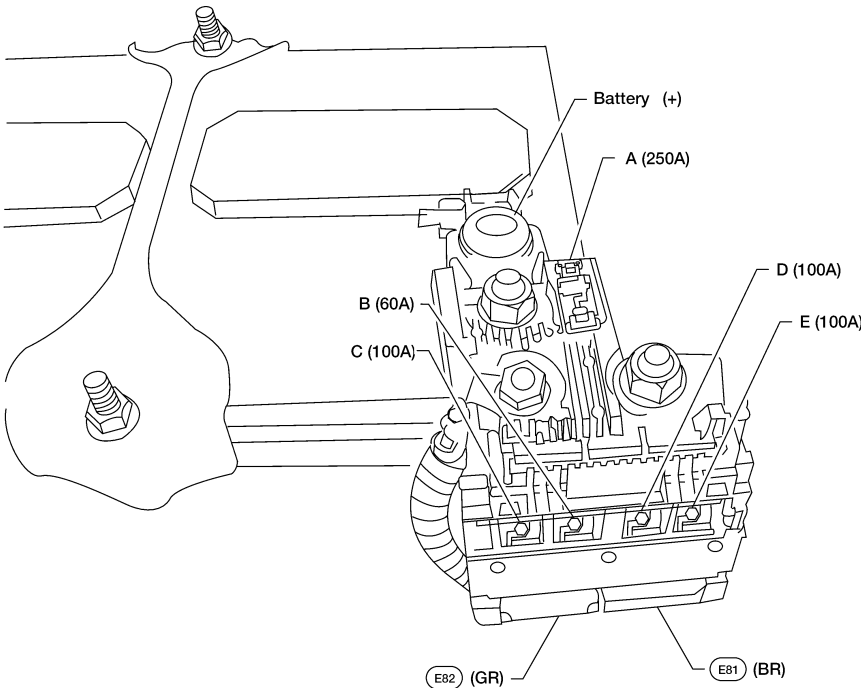
FUSE, FUSIBLE LINK AND RELAY BOX

Terminal Arrangement

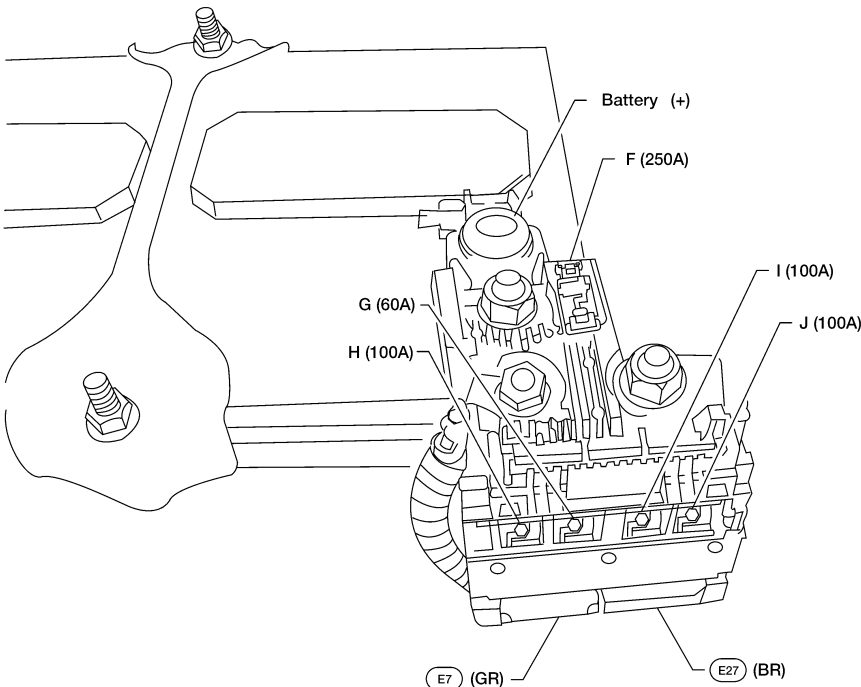
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FUSE, FUSIBLE LINK AND RELAY BOX

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



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



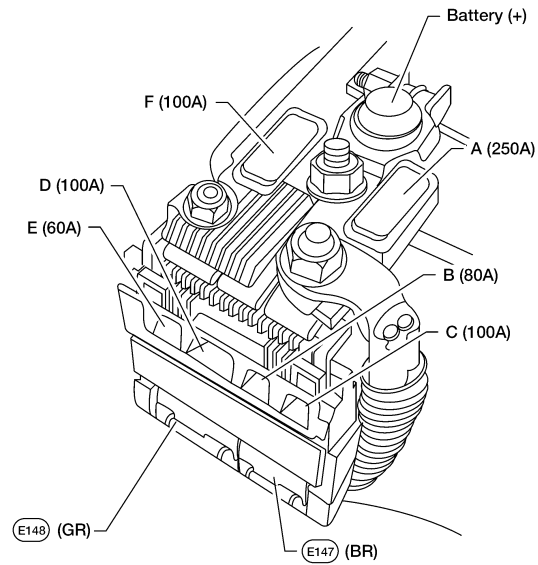
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FUSE, FUSIBLE LINK AND RELAY BOX

< WIRING DIAGRAM >

FUSIBLE LINK BOX (BATTERY) (WITH VK56VD)

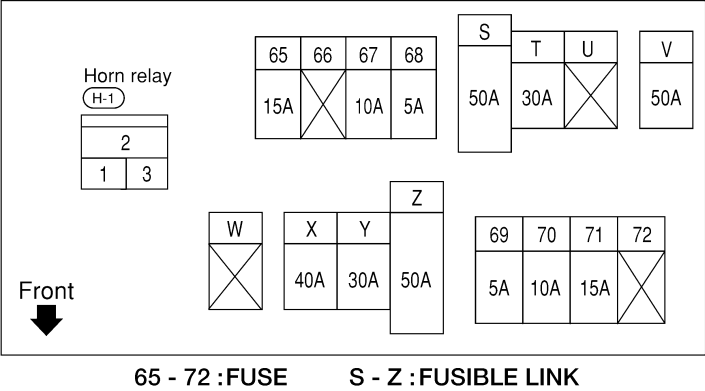


AAMIA5170GB

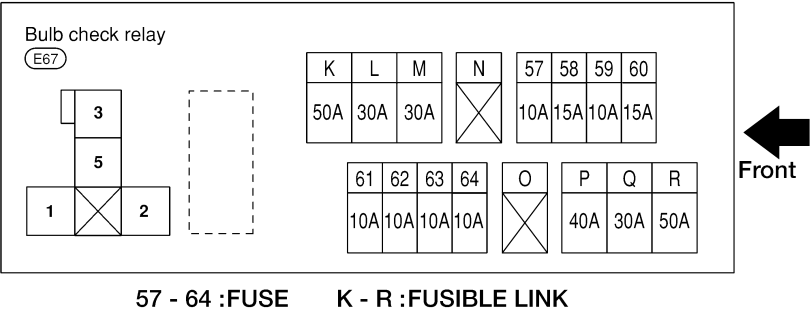
FUSE, FUSIBLE LINK AND RELAY BOX

< WIRING DIAGRAM >

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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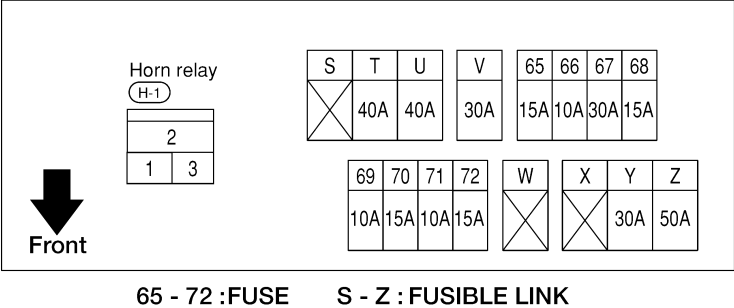
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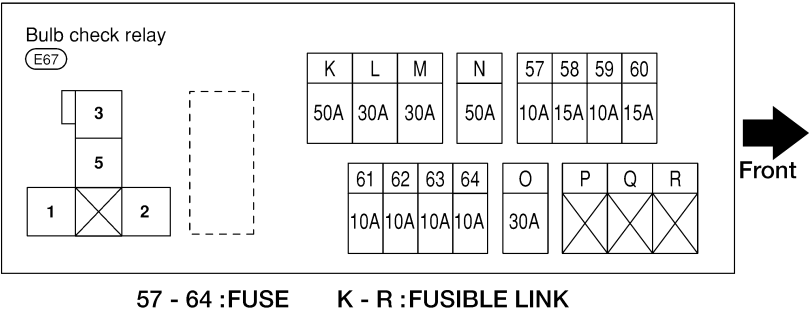
FUSE, FUSIBLE LINK AND RELAY BOX

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



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

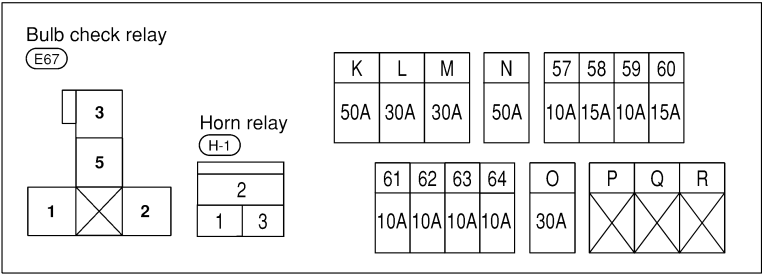


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FUSE, FUSIBLE LINK AND RELAY BOX

< WIRING DIAGRAM >

FUSE, FUSIBLE LINK AND RELAY BOX (NON-XD MODELS WITH VK56VD)



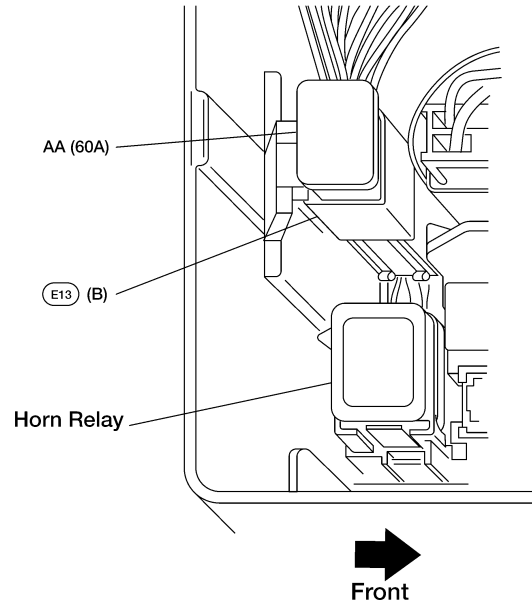
57 - 64 : FUSE K - R : FUSIBLE LINK

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FUSE, FUSIBLE LINK AND RELAY BOX

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FUSIBLE LINK BOX (WITH VK56VD)



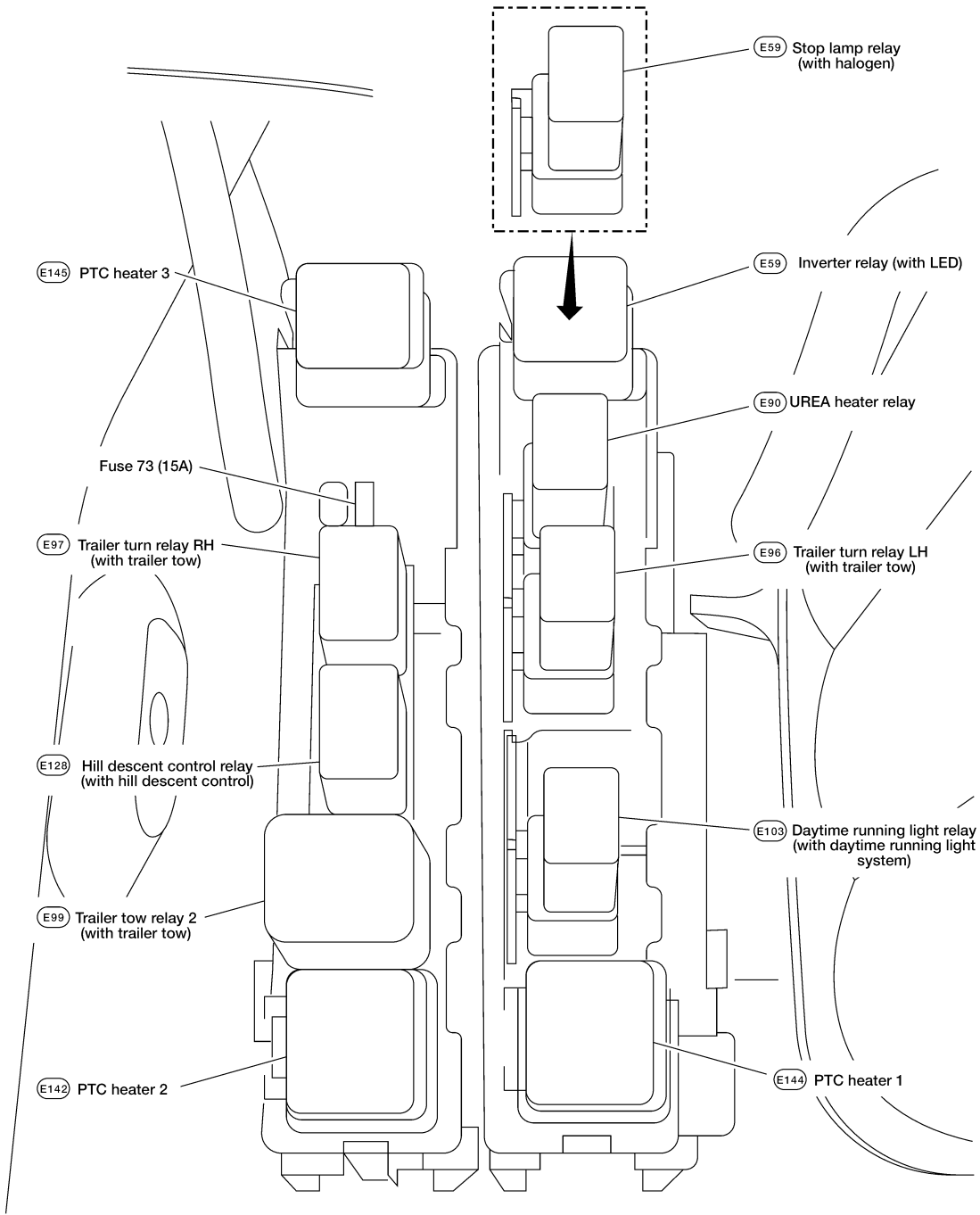
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FUSE, FUSIBLE LINK AND RELAY BOX

< WIRING DIAGRAM >

FUSE AND RELAY BOX (WITH Cummins 5.0L)

(WITH Cummins 5.0L)



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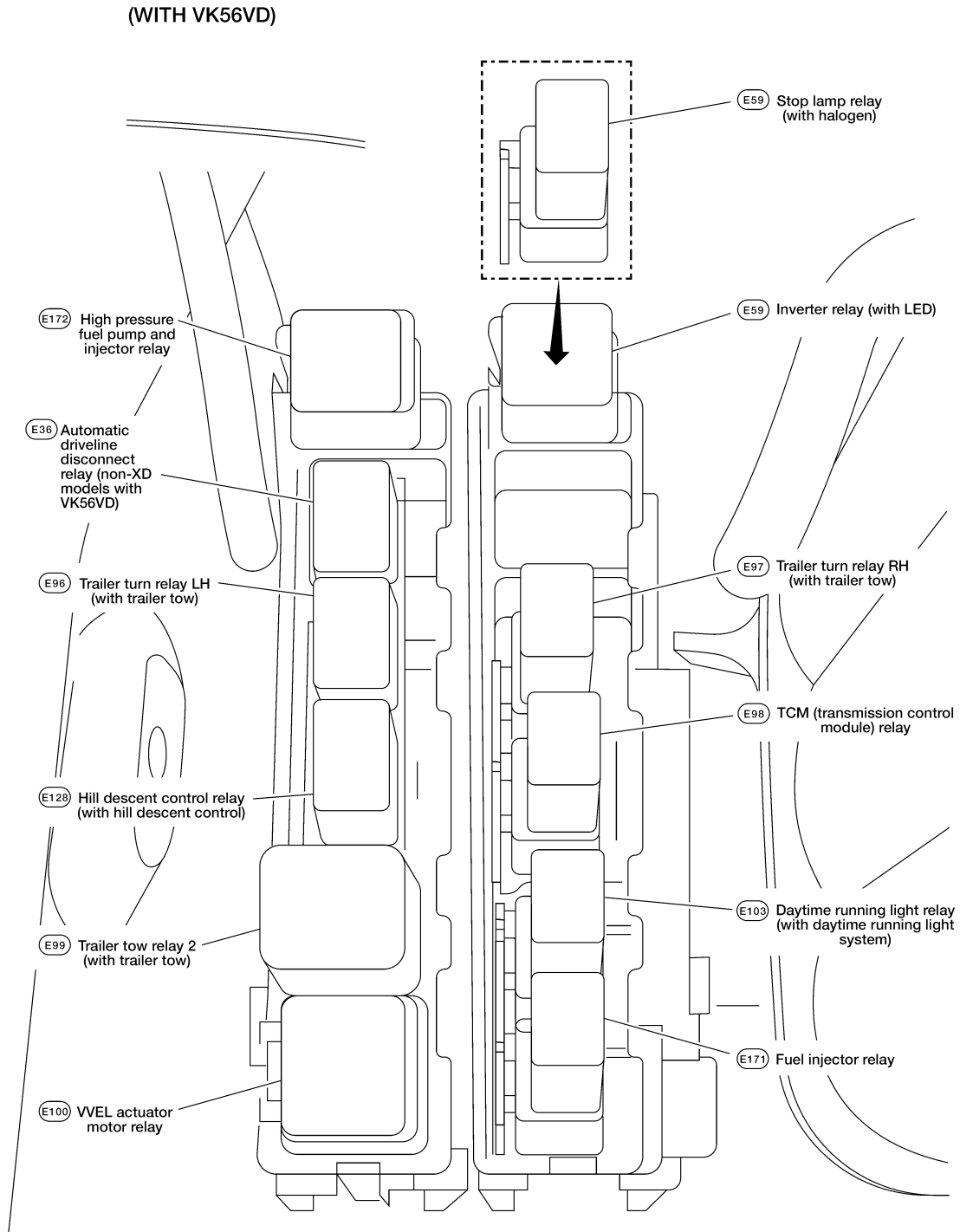
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FUSE, FUSIBLE LINK AND RELAY BOX

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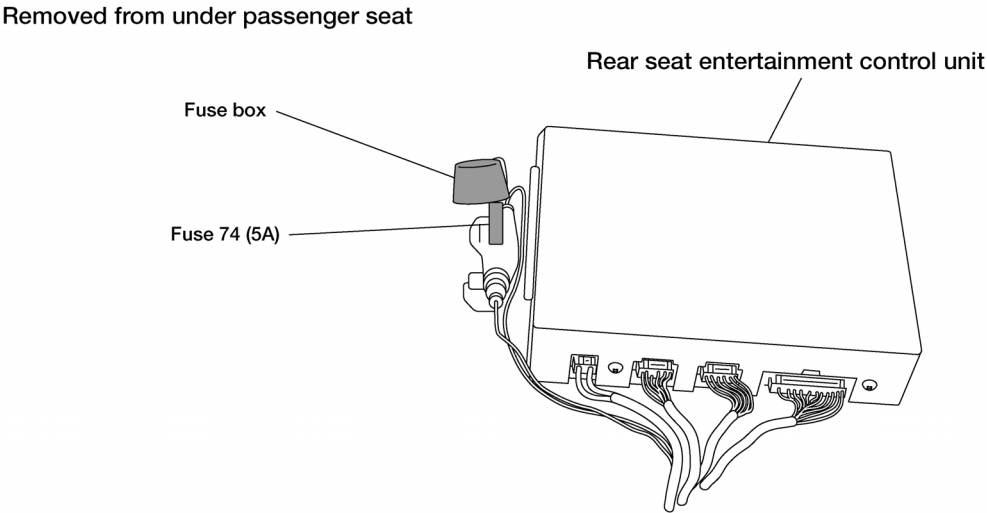
RELAY BOX (WITH VK56VD)



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FUSE, FUSIBLE LINK AND RELAY BOX

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FUSE BOX



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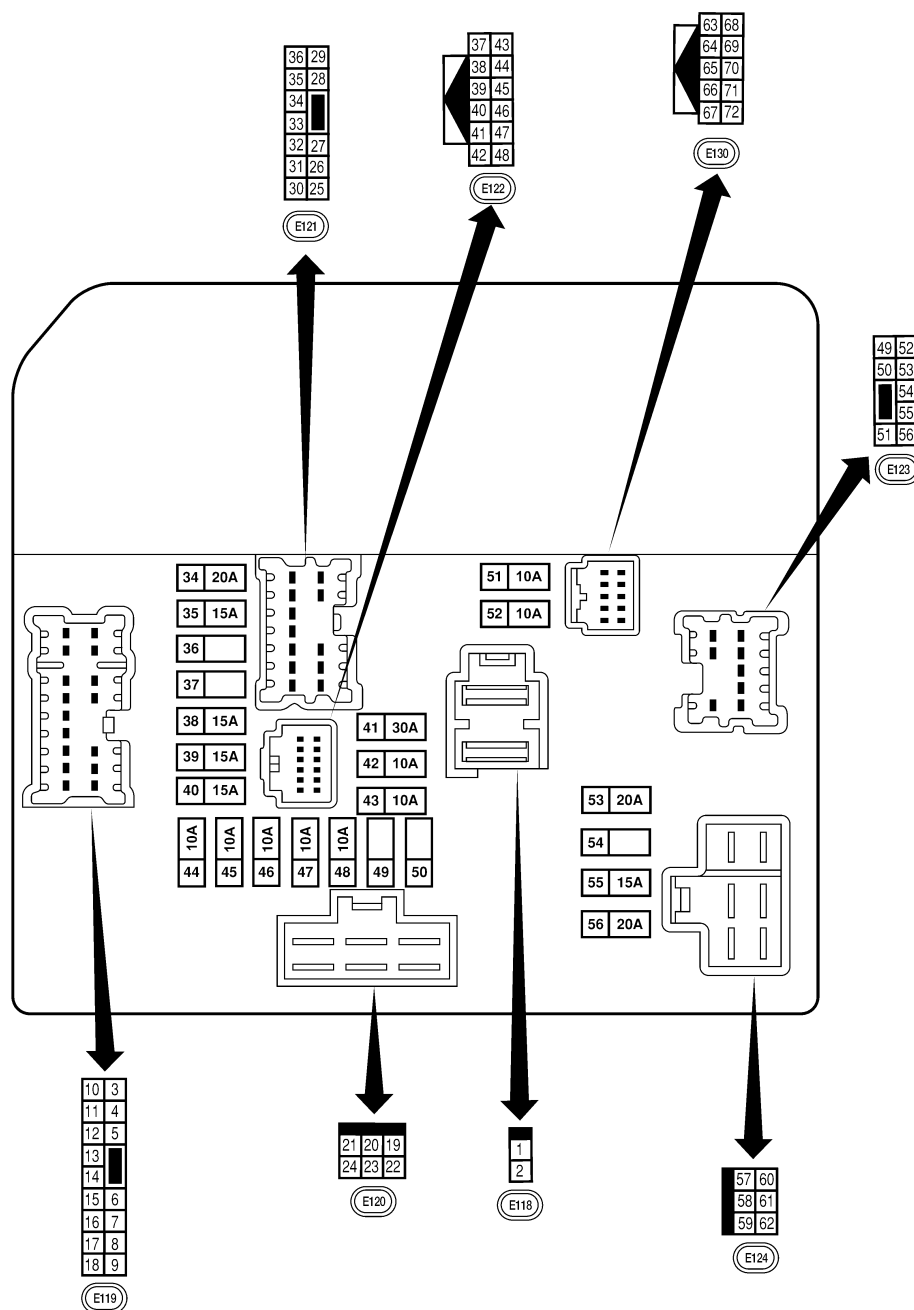
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

< WIRING DIAGRAM >

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

IPDM E/R Terminal Arrangement

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BATTERY

< BASIC INSPECTION >

BASIC INSPECTION

BATTERY

How to Handle Battery

INFOID:0000000014388663

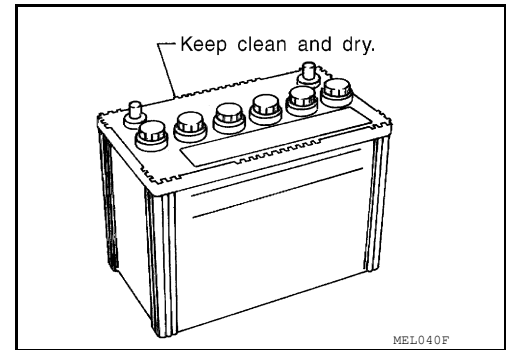
CAUTION:

- 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.

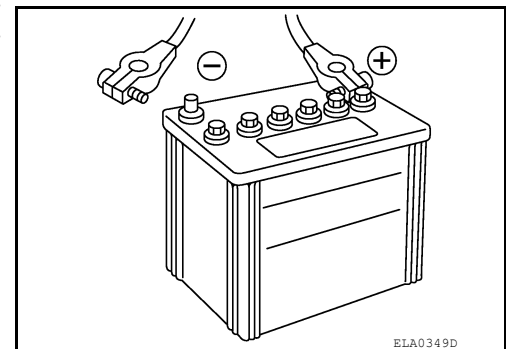
METHODS OF PREVENTING OVER-DISCHARGE

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:0000000014388664

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:

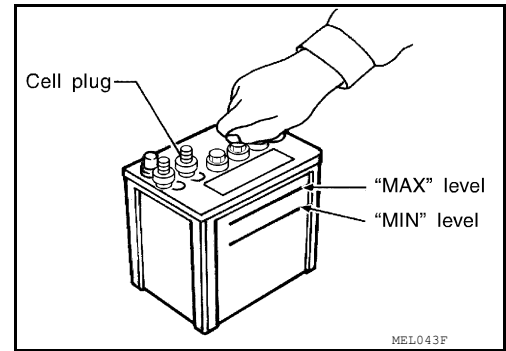
Never allow battery fluid to come in contact with skin, eyes, fabrics, or painted surfaces. After touching a battery, never touch or rub your eyes until you have thoroughly washed your hands. If acid contacts eyes, skin or clothing, immediately flush with water for 15 minutes and seek medical attention.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

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BATTERY

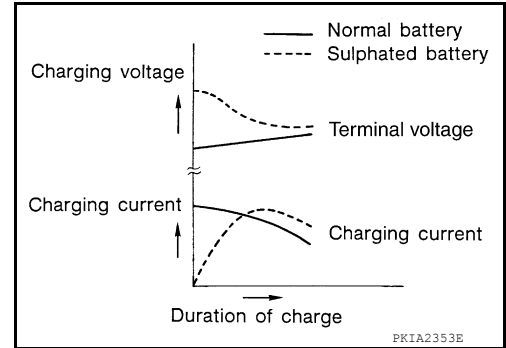
< BASIC INSPECTION >

- 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.**



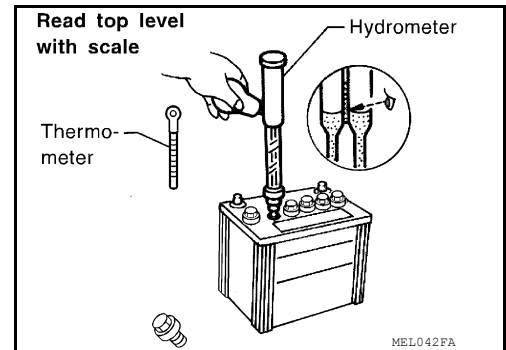
Specific Gravity Check

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

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.

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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:0000000014388665

Required Procedure After Battery Disconnection

System	Item	Reference
Engine Control System	Idle Air Volume Learning	EC-200 (VK56VD)
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-67
	Foot Position Setting Trimmer	HAC-67
	Inlet Port Memory Function (FRE)	HAC-67
	Inlet Port Memory Function (REC)	HAC-68
Audio, Visual & Navigation System	Audio (Radio Preset)	Refer to Owner's Manual.
	Navigation System	Refer to Owner's Manual.

FUSE INSPECTION

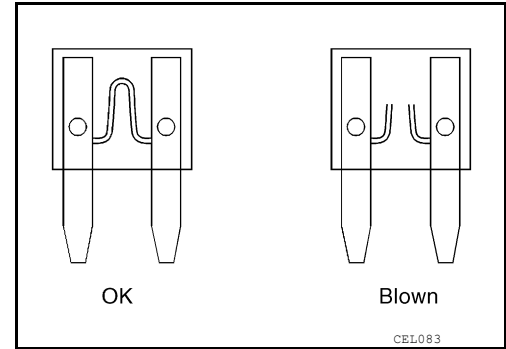
< BASIC INSPECTION >

FUSE INSPECTION

How To Check

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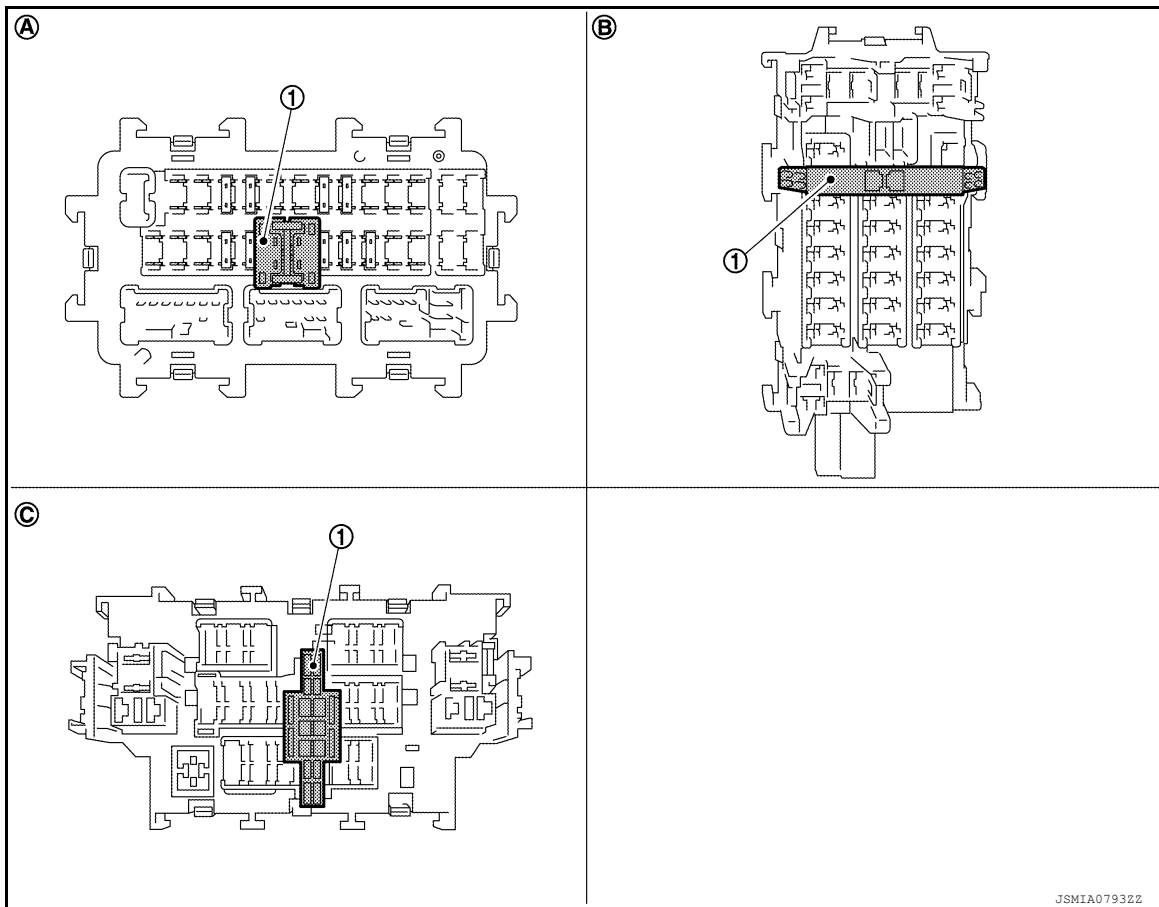
- If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse.
- Use fuse of specified rating. Never use fuse of more than specified rating.
- Do not partially install fuse; always insert it into fuse holder properly.
- Remove fuse for "ELECTRICAL PARTS (BAT)" if vehicle is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

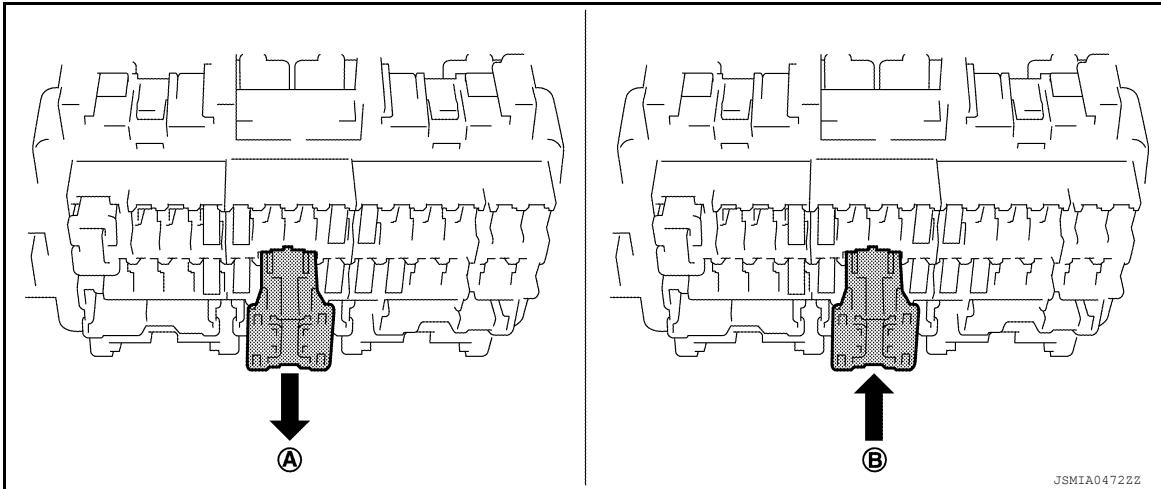
CAUTION:

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FUSE INSPECTION

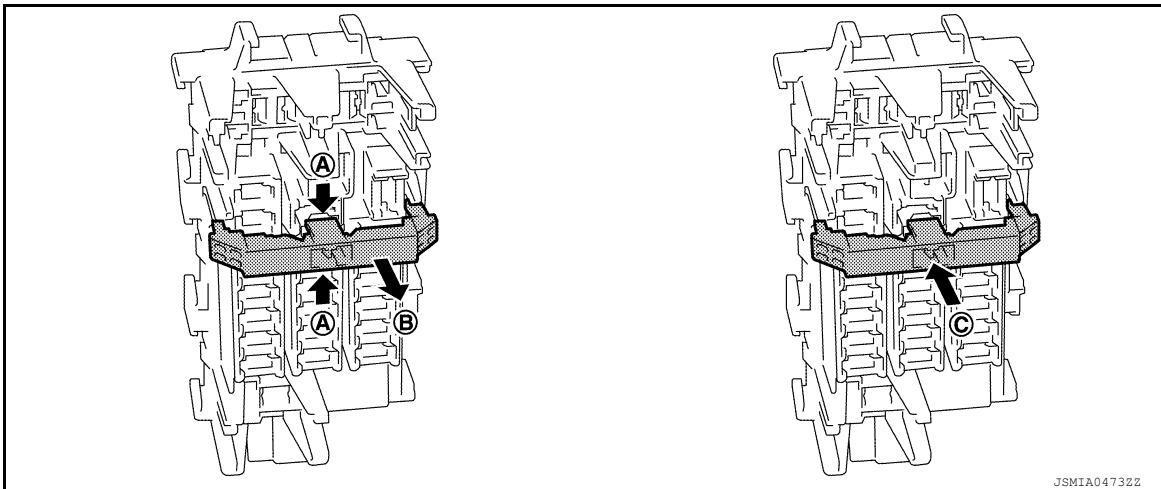
< BASIC INSPECTION >

- 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



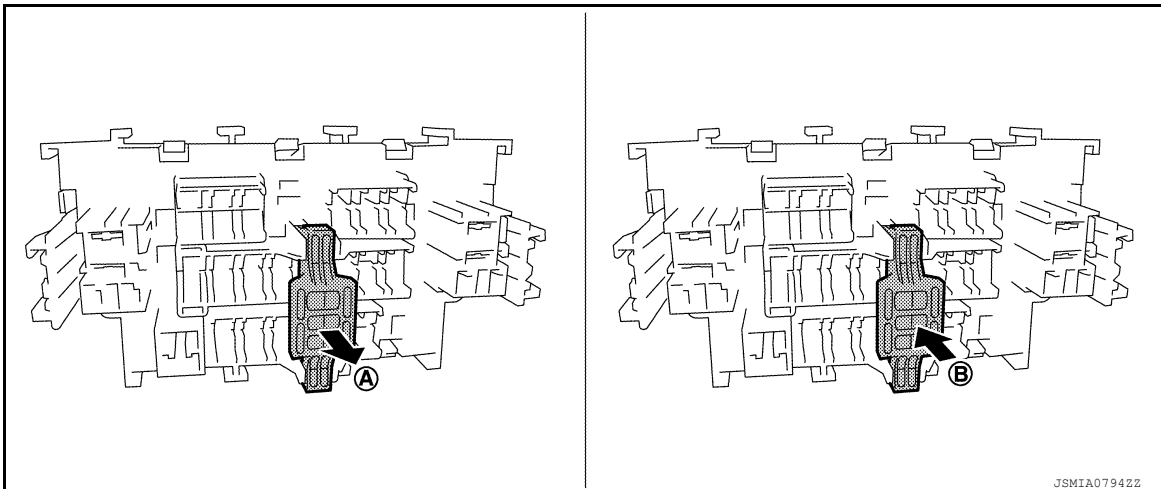
- To turn the extended storage switch OFF, pull out in ① direction as shown in the figure.
- To turn the extended storage switch ON, press in ② direction as shown in the figure.

• 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.

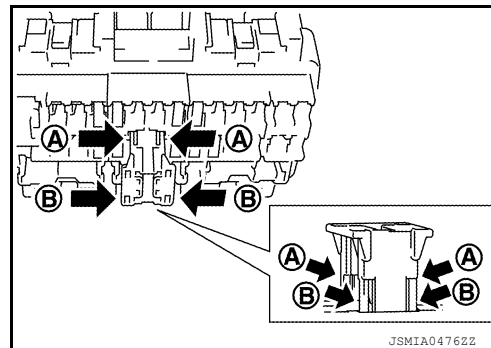
FUSE INSPECTION

< 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:

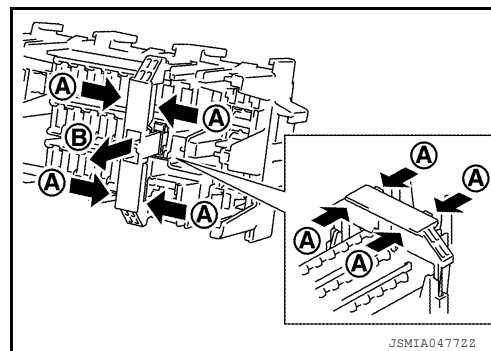
For bus bar type extended storage switch, never replace bus bar with a fuse, or fuse may continually open.

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).

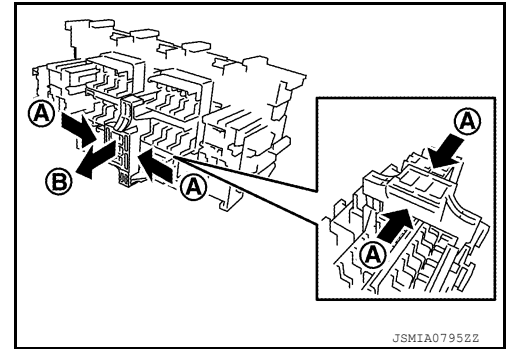
Type C

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).

FUSIBLE LINK INSPECTION

< BASIC INSPECTION >

FUSIBLE LINK INSPECTION

Fusible Link

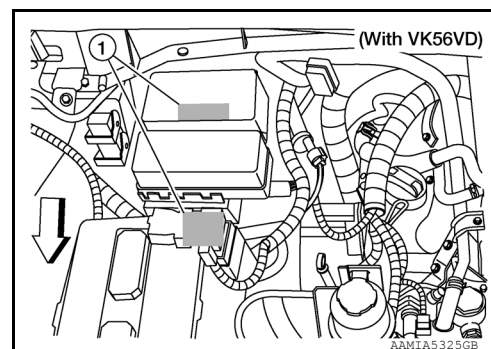
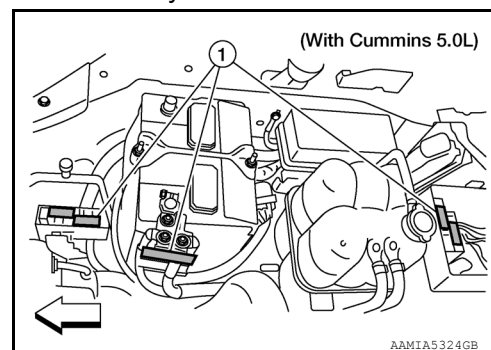
INFOID:000000014388667

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.

PG

BATTERY

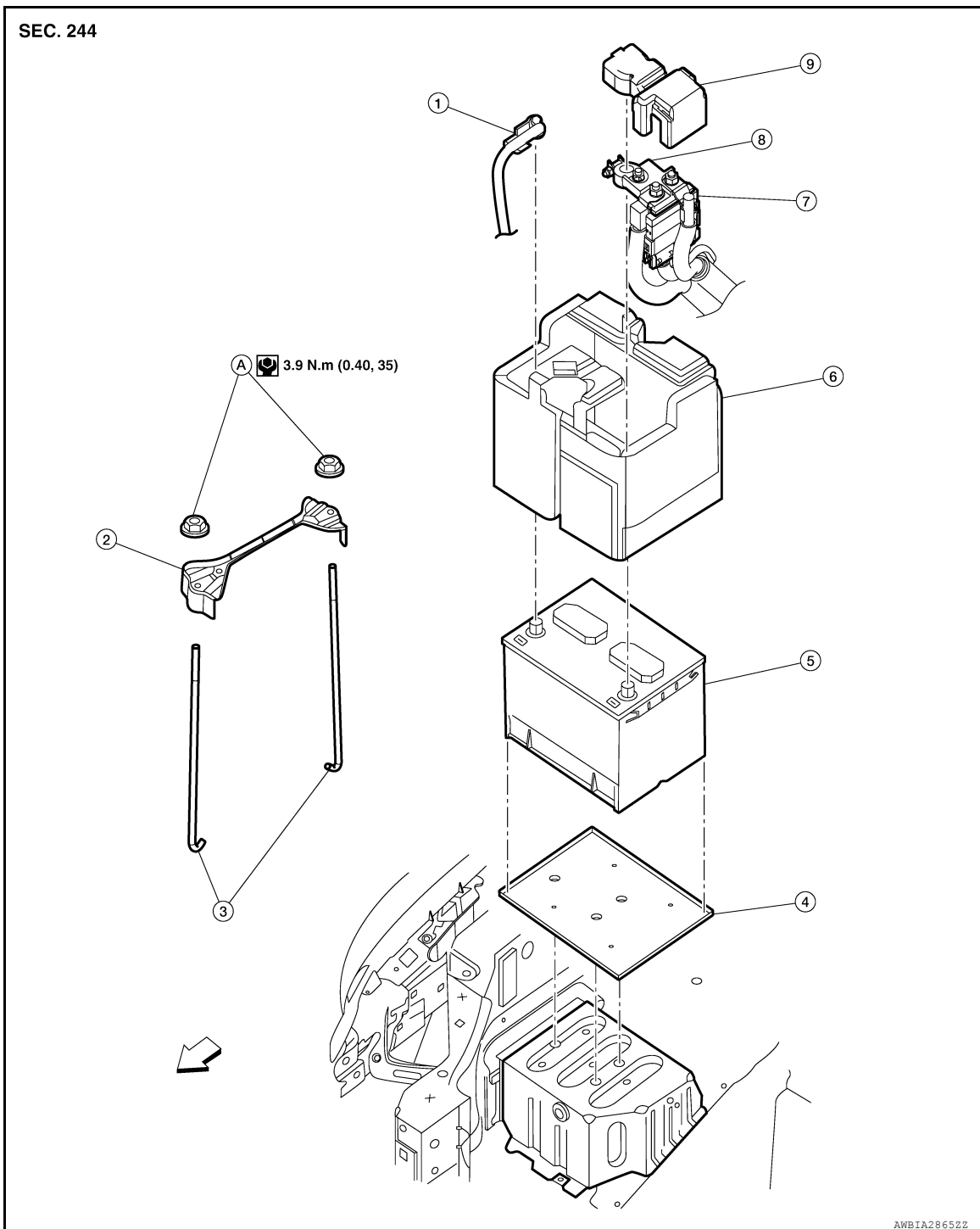
< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

BATTERY

Exploded View - CUMMINS 5.0L

INFOID:000000014388668



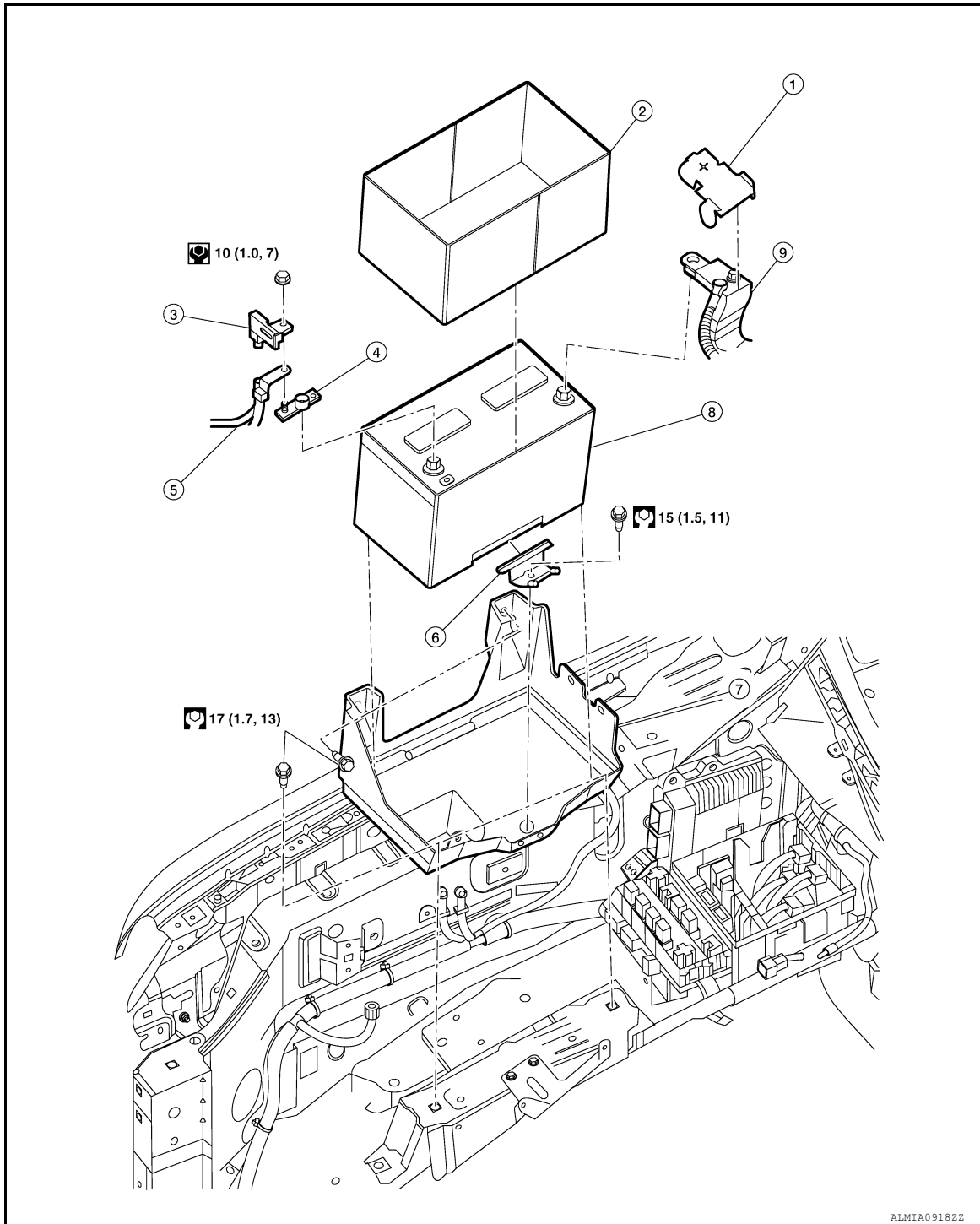
- | | | |
|-------------------------------|------------------------------|------------------------------------|
| 1. Battery negative cable | 2. Battery frame | 3. Battery rods |
| 4. Sub battery tray | 5. Battery | 6. Battery cover |
| 7. Fusible link box (battery) | 8. Battery positive terminal | 9.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

BATTERY

< REMOVAL AND INSTALLATION >

Exploded View - VK56VD

INFOID:000000014388669



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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) |

NOTE:

XD Models shown, Non-XD Models similar.

Battery Disconnect

INFOID:000000014388670

CUMMINS 5.0L

Revision: August 2016

PG-185

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BATTERY

< REMOVAL AND INSTALLATION >

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.

NOTE:

Battery RH shown, battery LH similar.

REMOVAL - NEGATIVE TERMINAL(S)

CAUTION:

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

1. Loosen the battery terminal nut(s) and disconnect the battery or batteries negative terminal(s).

INSTALLATION - NEGATIVE TERMINAL(S)

Installation is in the reverse order of removal.

- Tighten terminal nut(s) to specification.

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

Reset electronic systems as necessary. Refer to [PG-178, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#).

REMOVAL - POSITIVE TERMINAL(S)

CAUTION:

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

1. Pull back cover of battery positive terminal(s).
2. Loosen the battery terminal nut(s) and disconnect the battery or batteries negative and positive terminal(s).

INSTALLATION - POSITIVE TERMINAL(S)

CAUTION:

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

To install the battery or batteries positive terminal(s), carefully read the following instructions:

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

Installation is in the reverse order of removal.

- Tighten terminal nut(s) to specification.

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

Reset electronic systems as necessary. Refer to [PG-178, "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.

BATTERY

< REMOVAL AND INSTALLATION >

REMOVAL - NEGATIVE TERMINAL(S)

CAUTION:

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

1. Loosen the battery terminal nut(s) and disconnect the battery or batteries negative terminal(s).

INSTALLATION - NEGATIVE TERMINAL(S)

Installation is in the reverse order of removal.

- Tighten terminal nut(s) to specification.

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

Reset electronic systems as necessary. Refer to [PG-178, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#).

REMOVAL - POSITIVE TERMINAL(S)

CAUTION:

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

1. Pull back cover of battery positive terminal(s).
2. Loosen the battery terminal nut(s) and disconnect the battery or batteries negative and positive terminal(s).

INSTALLATION - POSITIVE TERMINAL(S)

CAUTION:

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

To install the battery or batteries positive terminal(s), carefully read the following instructions:

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

Installation is in the reverse order of removal.

- Tighten terminal nut(s) to specification.

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

Reset electronic systems as necessary. Refer to [PG-178, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#).

Removal and Installation - CUMMINS 5.0L

INFOID:0000000014388671

REMOVAL

1. Disconnect battery or batteries. Refer to [PG-185, "Battery Disconnect"](#).
2. Remove battery rod nuts and battery frame.
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-178, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#).

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< REMOVAL AND INSTALLATION >

Removal and Installation - VK56VD

INFOID:0000000014388672

REMOVAL

1. Disconnect battery or batteries. Refer to [PG-185, "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-178, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#).

SUB BATTERY TRAY

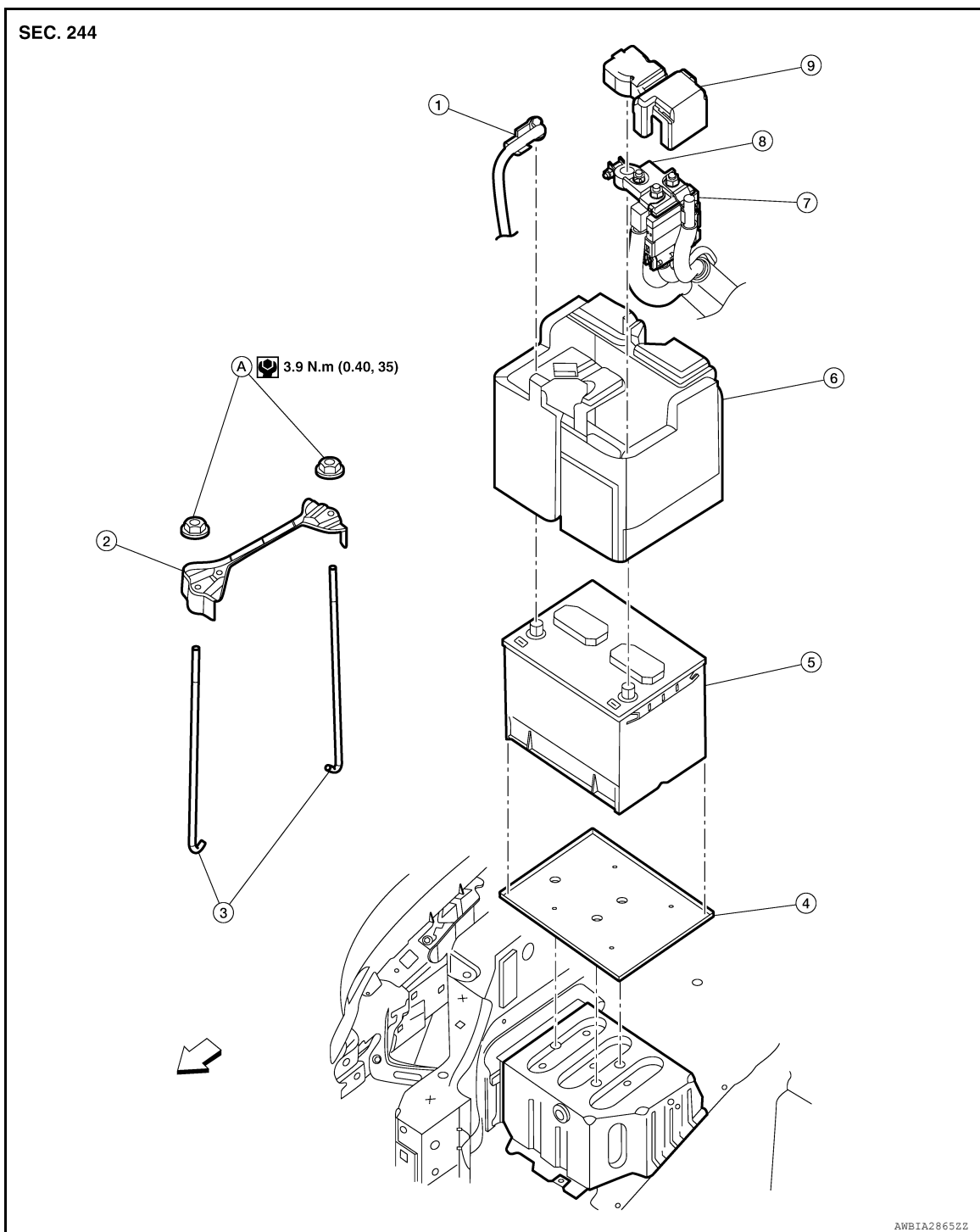
< REMOVAL AND INSTALLATION >

SUB BATTERY TRAY

CUMMINS 5.0L

CUMMINS 5.0L : Exploded View

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SUB BATTERY TRAY

< REMOVAL AND INSTALLATION >

CUMMINS 5.0L : Removal and Installation

INFOID:0000000014388674

REMOVAL

1. Remove the battery or batteries. Refer to [PG-187, "Removal and Installation - CUMMINS 5.0L"](#).
2. Remove the sub battery tray.

INSTALLATION

Installation is in the reverse order of removal.

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

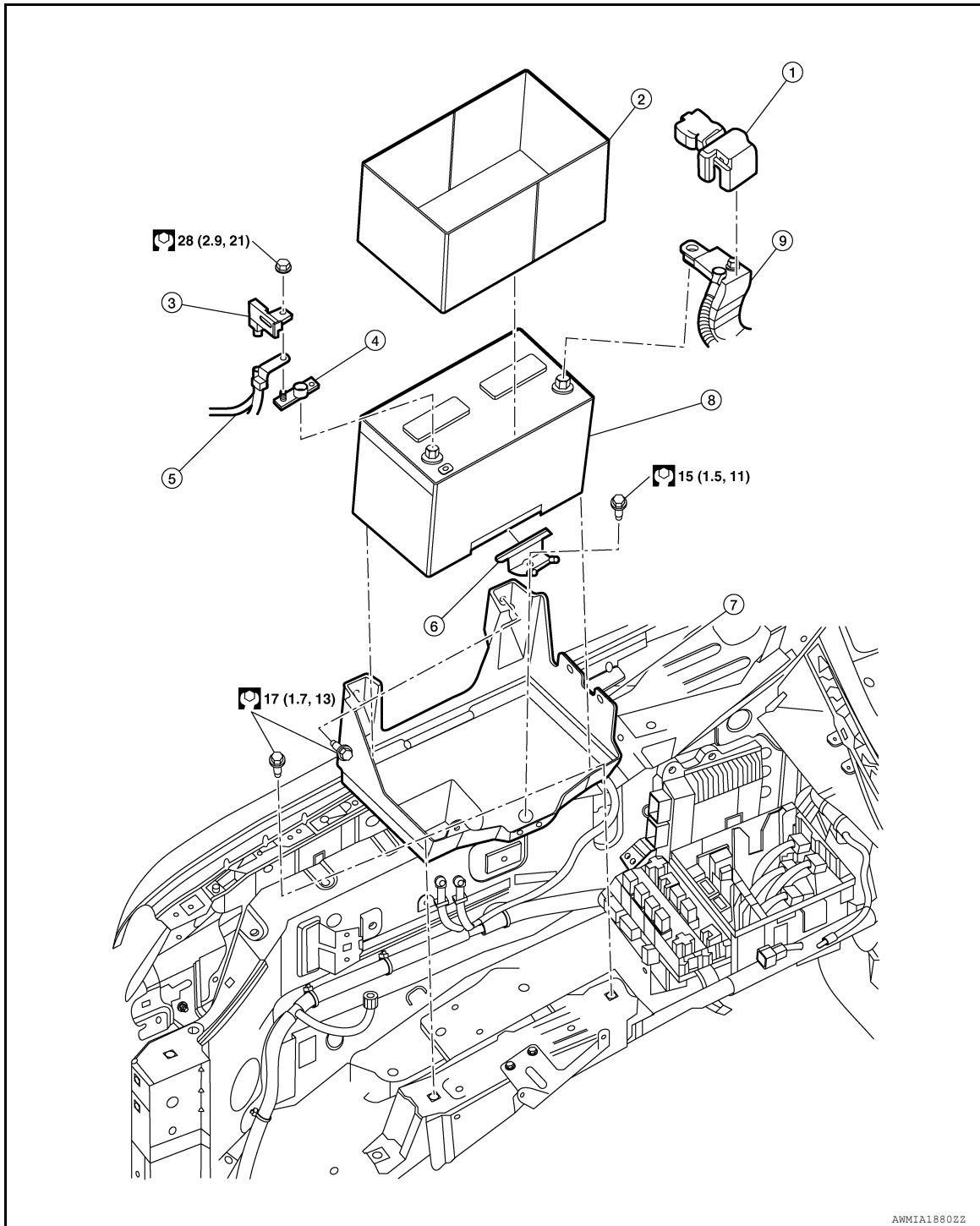
VK56VD

SUB BATTERY TRAY

< REMOVAL AND INSTALLATION >

VK56VD : Exploded View

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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. Sub battery tray | 8. Battery | 9. Fusible link box (battery) |

VK56VD : Removal and Installation

INFOID:000000014388676

REMOVAL

1. Remove the battery or batteries. Refer to [PG-187. "Removal and Installation - CUMMINS 5.0L"](#).
2. Remove bolts and sub 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 >

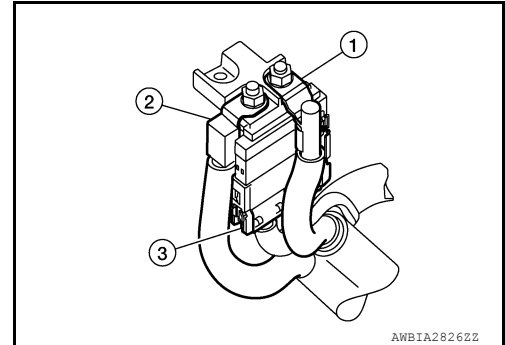
BATTERY TERMINAL WITH FUSIBLE LINK

Removal and Installation

INFOID:000000014388677

REMOVAL

1. Disconnect battery or batteries. Refer to [PG-185, "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-178, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#).

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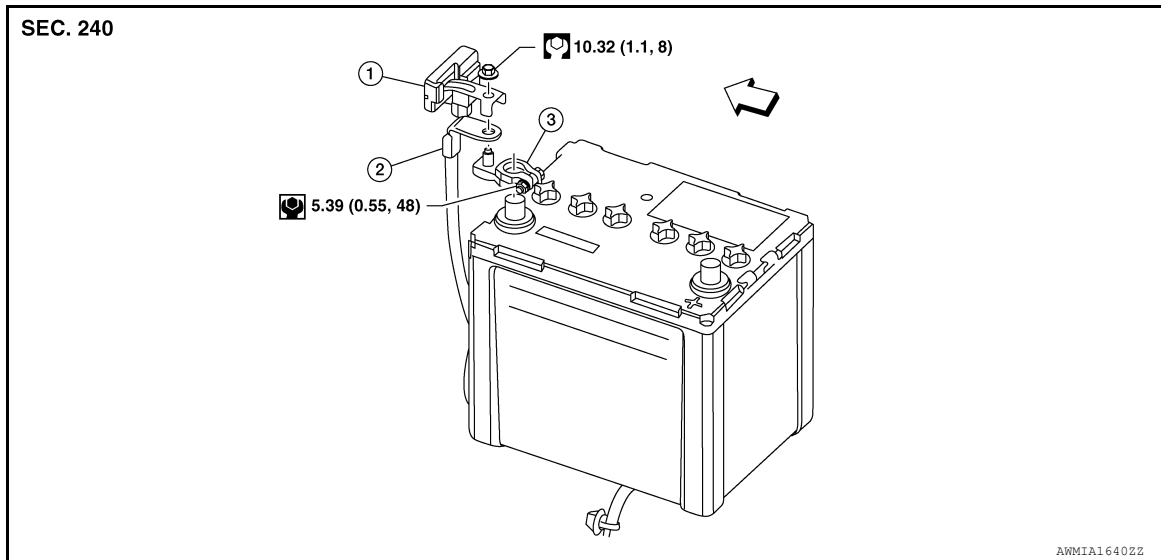
BATTERY CURRENT SENSOR

< REMOVAL AND INSTALLATION >

BATTERY CURRENT SENSOR

Exploded View

INFOID:0000000014388678



1. Current sensor

2. Negative cable

3. Negative terminal

↔ : Front

Removal and Installation

INFOID:0000000014388679

REMOVAL

1. Disconnect negative terminal from the battery. Refer to [PG-185, "Battery Disconnect"](#).
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-178, "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:0000000014388680

Engine	Heavy duty battery		
	Cummins 5.0L	VK56VD (XD Models)	VK56VD (Non-XD Models)
Type*	Gr 35	Gr 27	H6 EFB
Capacity (20 HR) minimum V-AH	12 - 63	12 - 80	12 - 70
Cold cranking current @ -18°C (0°F) [A]	550	710	720

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

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