SECTION SEC
SECURITY CONTROL SYSTEM

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PRECAUTION

PRECAUTIONS

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

INFOID:0000000013559807

Risk of injury

There is a risk of injury caused by parts becoming projectiles if uncontrolled deployment of air bag or seat belt pre-tensioner occurs, or by storing air bag with the deployment side facing downwards. When scrapping air bag or seat belt pre-tensioner by means of controlled deployment, there is also a danger present if a sufficiently safe distance is not maintained, or if opening using cutting torches or other cutting tools, or due to smelting or if parts that are not yet triggered are exposed to a blaze or a smoldering fire at landfills.

Safety instructions/precautions

- Removed air bag must always be stored with deployment side facing up.
- Acquisition, transportation, storage, testing and assembly work should only be performed or supervised by properly trained personnel.
- Install air bag or seat belt pre-tensioner immediately following retrieval from storage.
- Air bag and seat belt pre-tensioner must be protected from flying sparks, open fires and temperature exceeding 100°C (212°F).
- Never transport air bag and seat belt pre-tensioner in the passenger compartment. Store them securely in the luggage room of the vehicle in their original replacement part packaging and secure them so that they cannot slip around.
- Never allow air bag and seat belt pre-tensioner to come into contact with grease, oil, or cleaning agents.
- Perform system tests using approved testing equipment only, and only when the units are properly installed and the vehicle is unoccupied.
- Before the initial hookup of the battery or an external power supply, the ignition must be switched on and the vehicle unoccupied.
- Air bag and seat belt pre-tensioner that fall from a height of more than 0.5 m must be replaced.
- When scrapping by means of controlled deployment of air bag and seat belt pre-tensioner, a safe distance of at least 10 m must be maintained.
- Before starting work on air bag and seat belt pre-tensioner and work on components that are connected to air bag and seat belt pre-tensioner or require and intervention in their electric circuit (e.g. when removing the steering wheel):

- Disconnect any external power sources (e.g. charger).
- Disconnect and insulate ground line of battery

- Before starting bodywork in combination with welding or retrofitting, during which work is performed on uninsulated, current-carrying lines or require an intervention in their electric circuit (e.g. when removing the steering wheel):

- Disconnect any external power sources (e.g. charger).
- Disconnect and insulate ground line of battery.
- During welding, disconnect plug connection and from control unit of air bag.

- When the air bag deploys, the pyrofuse activates and the power source from the battery is disconnected. This prevents possible fires caused by electric leakage after an accident occurs.

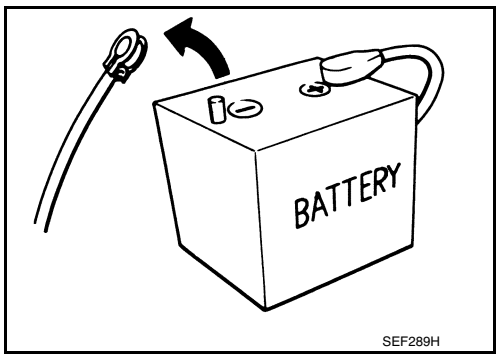
Precautions for Removing Battery Terminal

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When disconnecting the battery terminal, pay attention to the following.

- Always use a 12V battery as power source.
- Never disconnect battery terminal while engine is running.

- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.
- For vehicles with the engine listed below, remove the battery terminal after a lapse of the specified time:



BR08DE	: 4 minutes	YD25DDTi	: 2 minutes
D4D engine	: 20 minutes	YS23DDT	: 4 minutes
HRA2DDT	: 12 minutes	YS23DDTT	: 4 minutes
K9K engine	: 4 minutes	ZD30DDTi	: 60 seconds
M9R engine	: 4 minutes	ZD30DDTT	: 60 seconds
R9M engine	: 4 minutes		
V9X engine	: 4 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.

- After high-load driving, if the vehicle is equipped with the V9X engine, turn the ignition switch OFF and wait for at least 15 minutes to remove the battery terminal.

NOTE:
- Turbocharger cooling pump may operate in a few minutes after the ignition switch is turned OFF.
- Example of high-load driving
  - Driving for 30 minutes or more at 140 km/h (86 MPH) or more.
  - Driving for 30 minutes or more on a steep slope.

- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.

NOTE:
If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.

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

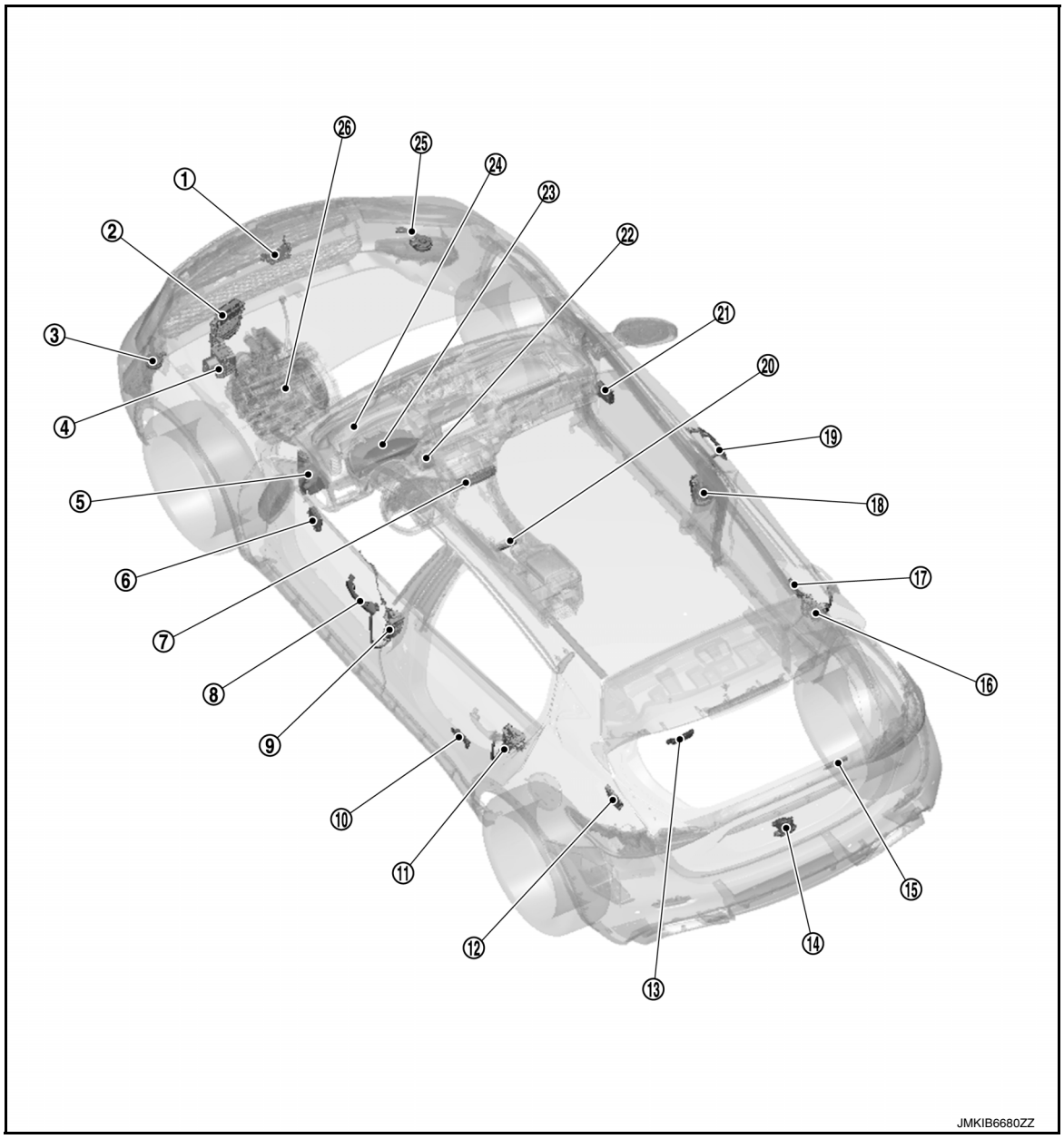
NOTE:
The removal of 12V battery may cause a DTC detection error.

SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location

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No.	Component	Function
①	Hood switch	Refer to SEC-6, "Hood Switch".
②	ECM	ECM controls the engine. When ignition switch is turned ON, electronic ignition switch control unit starts communication with ECM and performs the ID verification between electronic ignition switch control unit and ECM. If the verification result is OK, the engine can start. If the verification result is NG, the engine cannot start. ECM transmits the stop lamp switch signal to electronic ignition switch control unit via CAN communication. Refer to EC-27, "Component Parts Location" for detailed installation location.

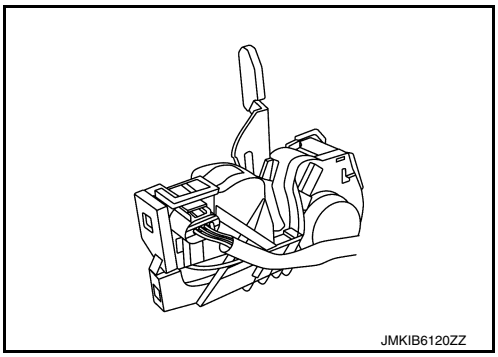
No.	Component	Function
③	Horn (low)	Horn (low) operate for warning vehicle surroundings when VEHICLE SECURITY SYSTEM operates.
④	Electronic stability program control unit	Electronic stability program control unit transmits the brake right switch signal to electronic ignition switch control unit via CAN communication. Refer to BRC-29, "Component Parts Location" for detailed installation location.
⑤	BCM	BCM controls VEHICLE SECURITY SYSTEM. BCM detects the vehicle status according to signals from each door switch and hood switch. Refer to BCS-8, "BODY CONTROL SYSTEM : Component Parts Location" for detailed installation location.
⑥	Left front door control unit	Left front door control unit receives front door switch signal from front door lock assembly. Left front door control unit transmits front door switch signal to BCM via CAN communication. Refer to DLK-10, "DOOR LOCK SYSTEM : Component Parts Location" for detailed installation location.
⑦	Upper control panel control unit	Security indicator lamp is located on upper control panel control unit. Security indicator lamp blinks when vehicle security ready status. Refer to BCS-8, "BODY CONTROL SYSTEM : Component Parts Location" for detailed installation location.
⑧	Left front Intelligent Key door handle	Left front Intelligent Key door handle detects user operate outside handle operation and transmits Intelligent Key door handle signal to Intelligent Key unit. Refer to DLK-10, "DOOR LOCK SYSTEM : Component Parts Location" for detailed installation location.
⑨	Front door lock assembly (driver side)	Door switch detects door open/close condition and then transmits ON/OFF signal to BCM. Refer to DLK-10, "DOOR LOCK SYSTEM : Component Parts Location" for detailed installation location.
⑩	Outside key antenna (left door)	Outside key antenna detects that Intelligent Key is within the key antenna detection area, and then transmits detection status to Intelligent Key unit. Refer to DLK-10, "DOOR LOCK SYSTEM : Component Parts Location" for detailed installation location.
⑪	Rear door lock assembly LH	Door switch detects door open/close condition and then transmits ON/OFF signal to BCM. Refer to DLK-10, "DOOR LOCK SYSTEM : Component Parts Location" for detailed installation location.
⑫	Intelligent Key unit	Intelligent Key unit controls the Intelligent Key system. Refer to DLK-10, "DOOR LOCK SYSTEM : Component Parts Location" for detailed installation location.
⑬	Inside key antenna (luggage room)	Inside key antenna (luggage room) detects whether Intelligent Key is inside the vehicle, and transmits the signal to Intelligent Key unit. Refer to DLK-10, "DOOR LOCK SYSTEM : Component Parts Location" for detailed installation location.
⑭	Back door lock assembly	Back door switch is integrated into back door lock assembly. Back door switch transmits back door switch signal to BCM. Refer to DLK-10, "DOOR LOCK SYSTEM : Component Parts Location" for detailed installation location.
⑮	Remote keyless entry receiver	Remote keyless entry receiver receives key ID signal of window antenna, and then transmits it to Intelligent Key unit (with Intelligent Key system) or electronic ignition switch control unit (without Intelligent Key system). Refer to DLK-10, "DOOR LOCK SYSTEM : Component Parts Location" for detailed installation location.
⑯	Rear door lock assembly RH	Door switch detects door open/close condition and then transmits ON/OFF signal to BCM. Refer to DLK-10, "DOOR LOCK SYSTEM : Component Parts Location" for detailed installation location.
⑰	Outside key antenna (right door)	Outside key antenna detects that Intelligent Key is within the key antenna detection area, and then transmits detection status to Intelligent Key unit. Refer to DLK-10, "DOOR LOCK SYSTEM : Component Parts Location" for detailed installation location.
⑱	Front door lock assembly (passenger side)	Door switch detects door open/close condition and then transmits ON/OFF signal to front door control unit. Refer to DLK-10, "DOOR LOCK SYSTEM : Component Parts Location" for detailed installation location.

No.	Component	Function
⑲	Right front Intelligent Key door handle	Right front door request switch detected door lock/unlock operation and transmits door request switch signal to BCM. Refer to DLK-10, "DOOR LOCK SYSTEM : Component Parts Location" for detailed installation location.
⑳	Inside key antenna (console)	Inside key antenna (console) detects whether Intelligent Key is inside the vehicle, and transmits the signal to Intelligent Key unit. Refer to DLK-10, "DOOR LOCK SYSTEM : Component Parts Location" for detailed installation location.
㉑	Right front door control unit	Right front door control unit receives front door switch signal from front door lock assembly. Right front door control unit transmits front door switch signal to BCM via CAN communication. Refer to DLK-10, "DOOR LOCK SYSTEM : Component Parts Location" for detailed installation location.
㉒	Electronic ignition switch control unit	Electronic ignition switch control unit controls INTELLIGENT KEY SYSTEM (ENGINE START FUNCTION) and INFINITI VEHICLE IMMOBILIZER SYSTEM (NATS). Refer to PCS-5, "Component Parts Location" for detailed installation location.
㉓	Combination meter	Combination meter transmits the vehicle speed signal to Intelligent Key unit via CAN communication. When combination meter receives meter display signal, information displays.
㉔	Brake light switch	Brake light switch detects that brake pedal is depressed, and then transmits ON/OFF signal to electronic stability program control unit. Refer to BRC-29, "Component Parts Location" for detailed installation location.
㉕	Horn (high)	Horn (high) operate for warning vehicle surroundings when VEHICLE SECURITY SYSTEM operates.
㉖	TCM	TCM transmits the shift position signal to electronic ignition switch control unit via CAN communication.Refer to TM-17, "Component Parts Location" for detailed installation location.

Hood Switch

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Hood switch detects that hood is open, and then transmits OPEN/CLOSE signal to BCM.


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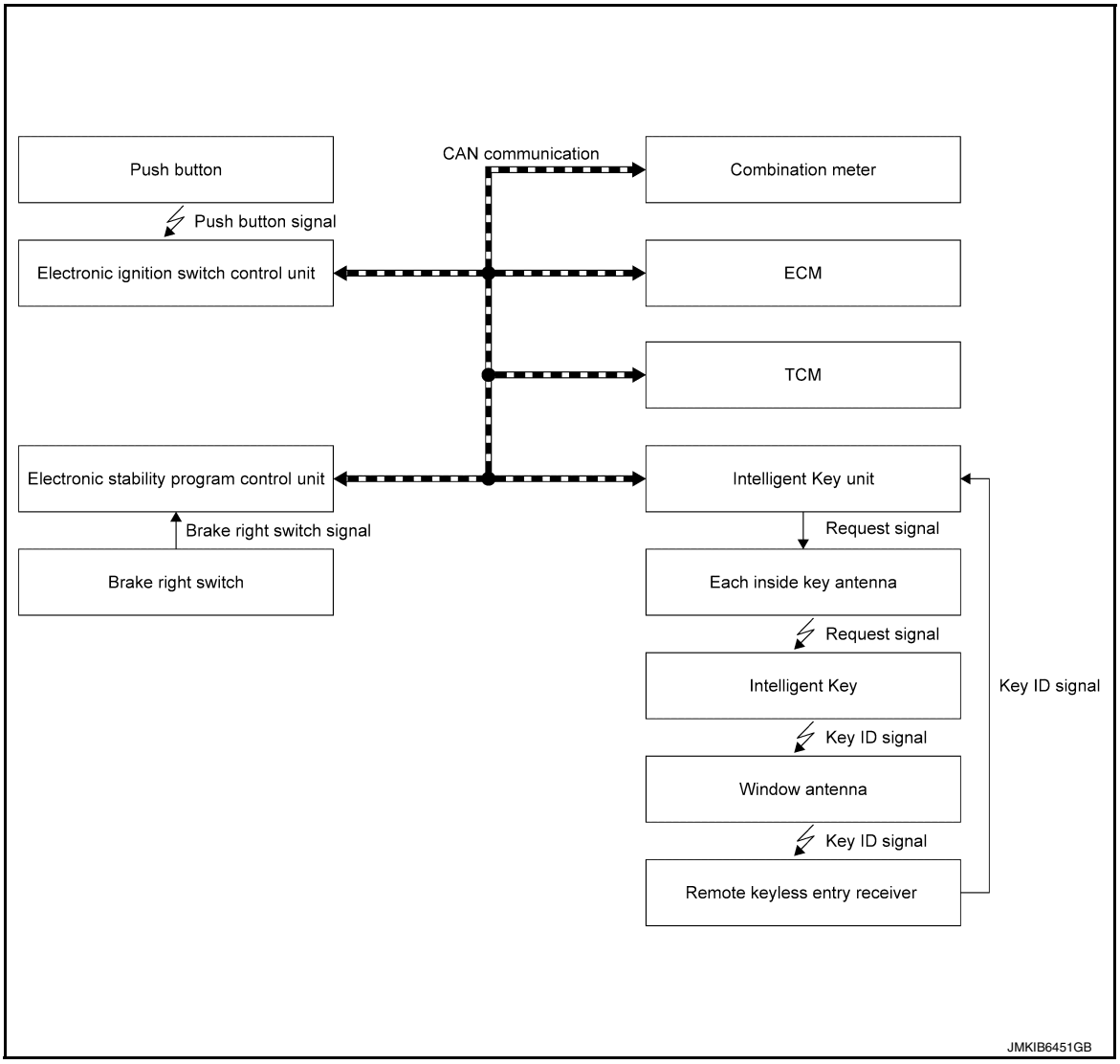
SYSTEM

INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION

INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION : System Description

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SYSTEM DIAGRAM



CAN COMMUNICATION SIGNAL ITEM

Transmit unit	Signal name	Receive unit
Electronic stability program control unit	Brake right switch signal	Electronic ignition switch control unit
TCM	Shift position signal	Electronic ignition switch control unit
Intelligent Key unit	Key ID signal	Electronic ignition switch control unit
Electronic ignition switch control unit	Push button signal	Intelligent Key unit
Electronic ignition switch control unit	Meter display signal	Combination meter
Combination meter	Vehicle speed signal	Intelligent Key unit

SYSTEM DESCRIPTION

- The engine start function of Intelligent Key system makes it possible to start and stop the engine without using the key, based on the electronic ID verification. The electronic ID verification is performed between

Intelligent Key unit and Intelligent Key when the push button is pressed while the Intelligent Key is within the detection area of inside key antenna.

NOTE:

The driver should carry the Intelligent Key at all times.

- Intelligent Key have Key ID. It can perform the door lock/unlock operation and the push button operation when the registered Intelligent Key is carried.

NOTE:

Refer to DLK-22, "INTELLIGENT KEY SYSTEM : System Description" for any functions other than engine start function of Intelligent Key system.

- If the ID is successfully verified, when push button is pressed, steering lock is released and the engine can be started.
- For registration of Intelligent Keys, perform procedure according to the instructions displayed on the CONSULT monitor.

OPERATION WHEN INTELLIGENT KEY IS CARRIED

1. Carry a registered Intelligent Key into the vehicle, and press the push button.
2. When electronic ignition switch control unit detects that push button is pressed, it transmits the push switch signal to Intelligent Key control unit.
3. When Intelligent Key unit receives the push switch signal, it activates the inside key antenna and transmits the request signal to Intelligent key.
4. If the Intelligent Key is within the inside key antenna detection area, it receives the request signal and transmits the key ID signal to the Intelligent Key unit via window antenna and remote keyless entry receiver.
5. Intelligent Key control unit transmits Key ID signal to ignition switch control unit via CAN communication.
6. When electronic ignition switch control unit receives the Key ID signal, it transmits the engine start signal to ECM and then starts the engine.

*: For the engine start condition, refer to “IGNITION SWITCH POSITION CHANGE TABLE BY PUSH BUTTON OPERATION”.

ENGINE START OPERATION WHEN INTELLIGENT KEY IS CONTACTED TO PUSH BUTTON

When Intelligent Key battery is discharged, removing push button and inserting Intelligent Key directly into electronic ignition switch control unit, allows Key ID to be verified, and allows engine to be started.

IGNITION SWITCH POSITION CHANGE TABLE BY PUSH BUTTON OPERATION

The ignition switch position can be changed by the following operations.

NOTE:

- When an Intelligent Key is within the detection area of inside key antenna or when Intelligent Key backside is contacted to push button, it is equivalent to the operations below.
- When starting the engine, the BCM monitors under the engine start conditions,

- Brake pedal operation condition
- Selector lever position
- Vehicle speed

Vehicle speed: less than 3 km/h (2 MPH)

Power supply position	Condition		Push button operation frequency
	Selector lever	Brake pedal operation condition	
OFF → ACC	—	Not depressed	1
OFF → ACC → ON	—	Not depressed	2
OFF → ACC → ON → OFF	—	Not depressed	3
OFF → START ACC → START ON → START	P or N position	Depressed	1
Engine is running → OFF	—	—	1

Vehicle speed: 3 km/h (2 MPH) or more

Power supply position	Condition		Push button operation frequency
	Selector lever	Brake pedal operation condition	
Engine is running → ACC	—	—	Emergency stop operation
Engine stall return operation while driving	N position	Not depressed	1

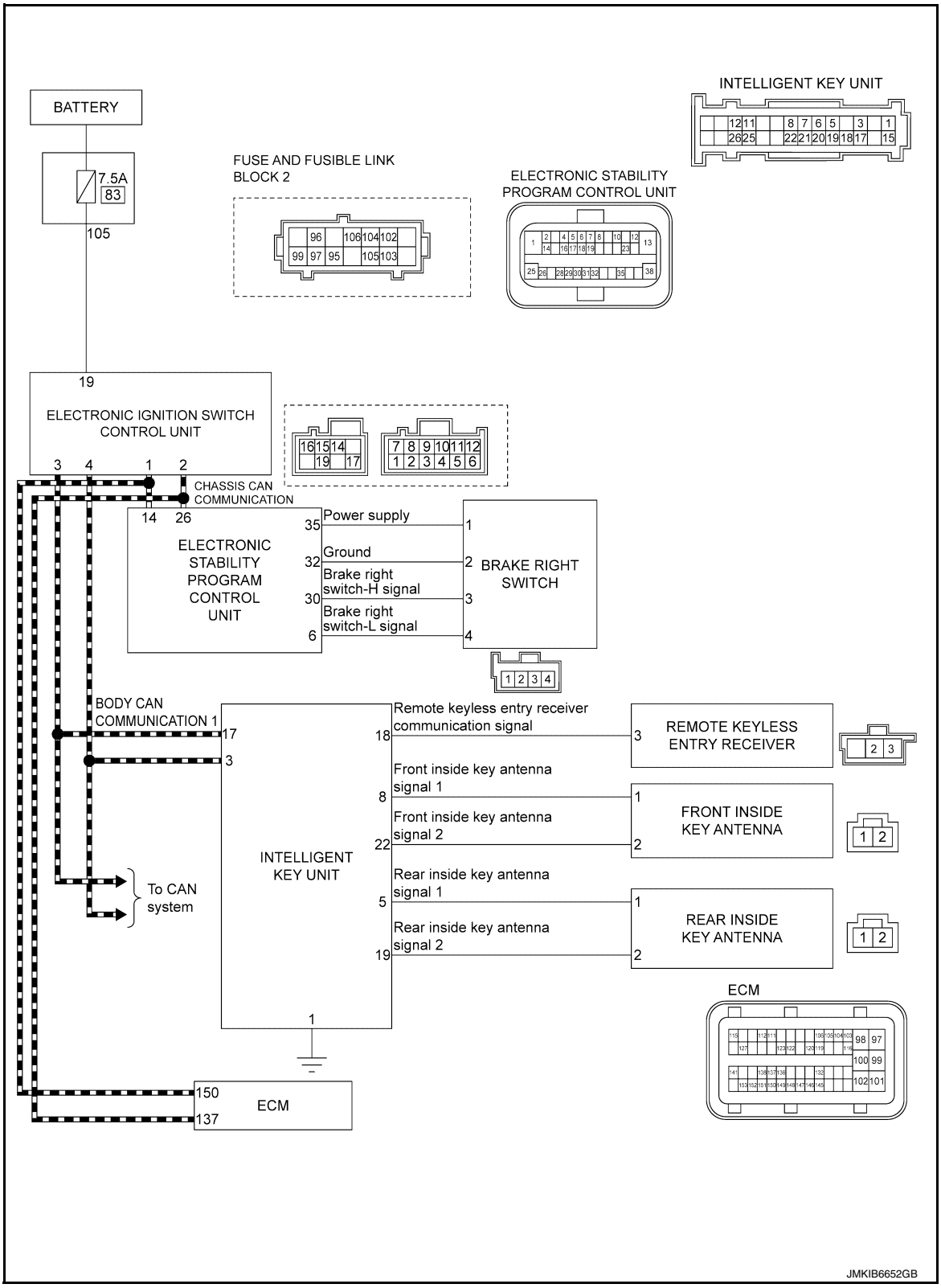
Emergency stop operation

Emergency engine stop is activated when following operation is performed.

- Press and hold the push button for 3 seconds or more.

INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION : Circuit Diagram

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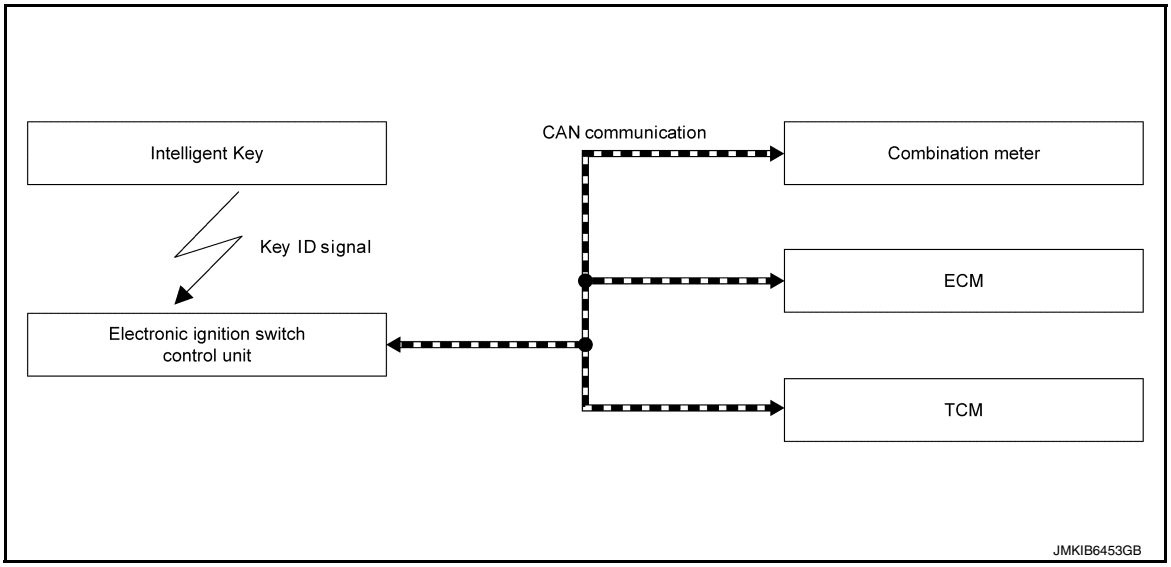


INFINITI VEHICLE IMMOBILIZER SYSTEM-NATS

INFINITI VEHICLE IMMOBILIZER SYSTEM-NATS : System Description

INFOID:0000000013559815

SYSTEM DIAGRAM



CAN COMMUNICATION SIGNAL ITEM

Transmit unit	Signal name	Receive unit
Electronic ignition switch control unit	Key ID signal Ignition switch ON signal Engine start request signal	ECM
ECM	Key ID signal	Electronic ignition switch control unit
ECM	Key ID signal	TCM
Electronic ignition switch control unit	Meter display signal	Combination meter

SYSTEM DESCRIPTION

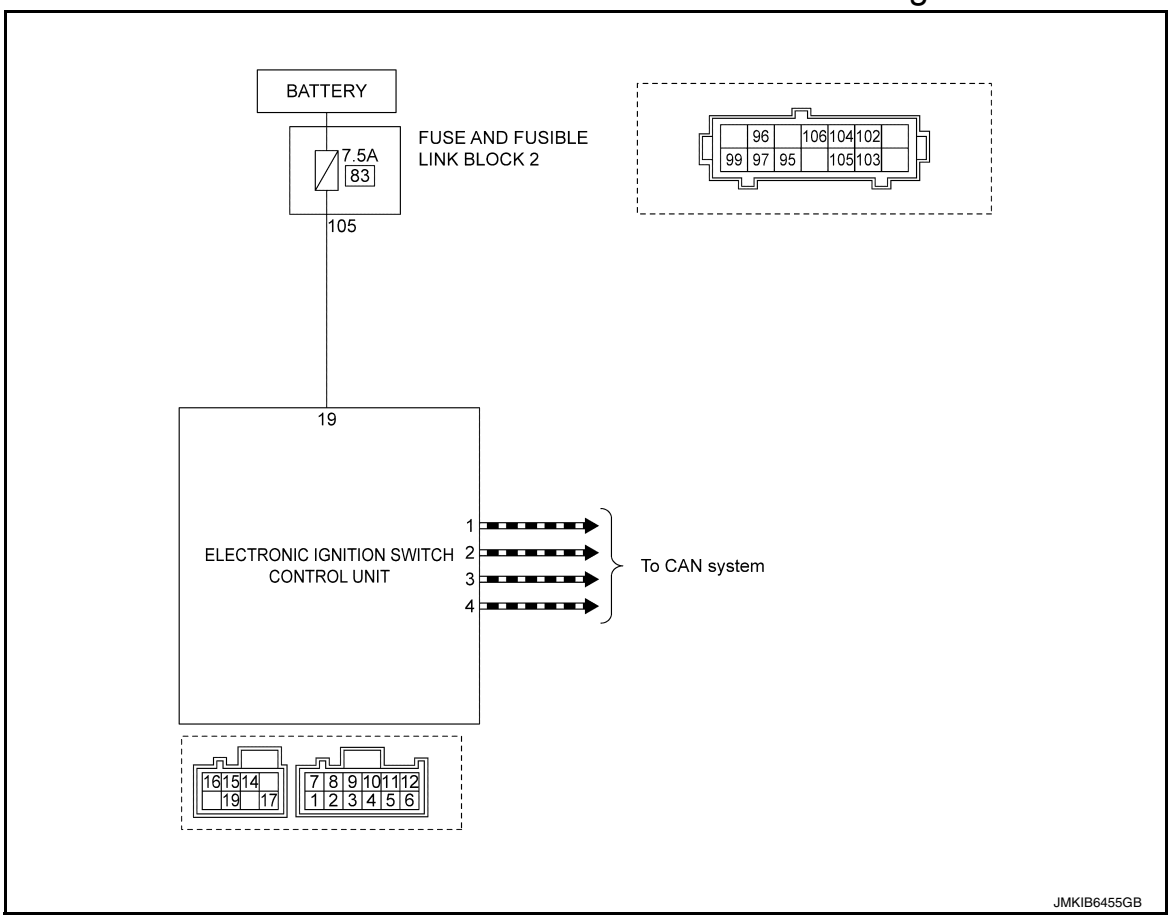
- INFINITI VEHICLE IMMOBILIZER SYSTEM (NATS) prevents the engine from being started by Intelligent Key or keyfob whose ID is not registered to the vehicle. It has higher protection against auto theft involving the duplication of mechanical keys.
- If the engine cannot be started because Intelligent Key battery is discharged, or for other reasons, the engine can be started by removing the push button and inserting Intelligent Key into electronic ignition switch control unit.
- When replacing ECM, TCM, steering lock unit, electronic ignition switch control unit, electric shift control unit or Intelligent Key, the specified procedure using CONSULT is required.

ENGINE START OPERATION WHEN INTELLIGENT KEY IS INSERTED INTO ELECTRONIC IGNITION SWITCH CONTROL UNIT

1. Remove push button, and insert Intelligent Key into electronic ignition switch control unit.
2. When electronic ignition switch control unit detects that an Intelligent Key is inserted, it performs verification of Intelligent Key and KEY ID.
3. When Key ID verification is OK, electronic ignition switch control unit releases steering lock (M/T models) and transmits engine start signal to ECM.

INFINITI VEHICLE IMMOBILIZER SYSTEM-NATS : Circuit Diagram

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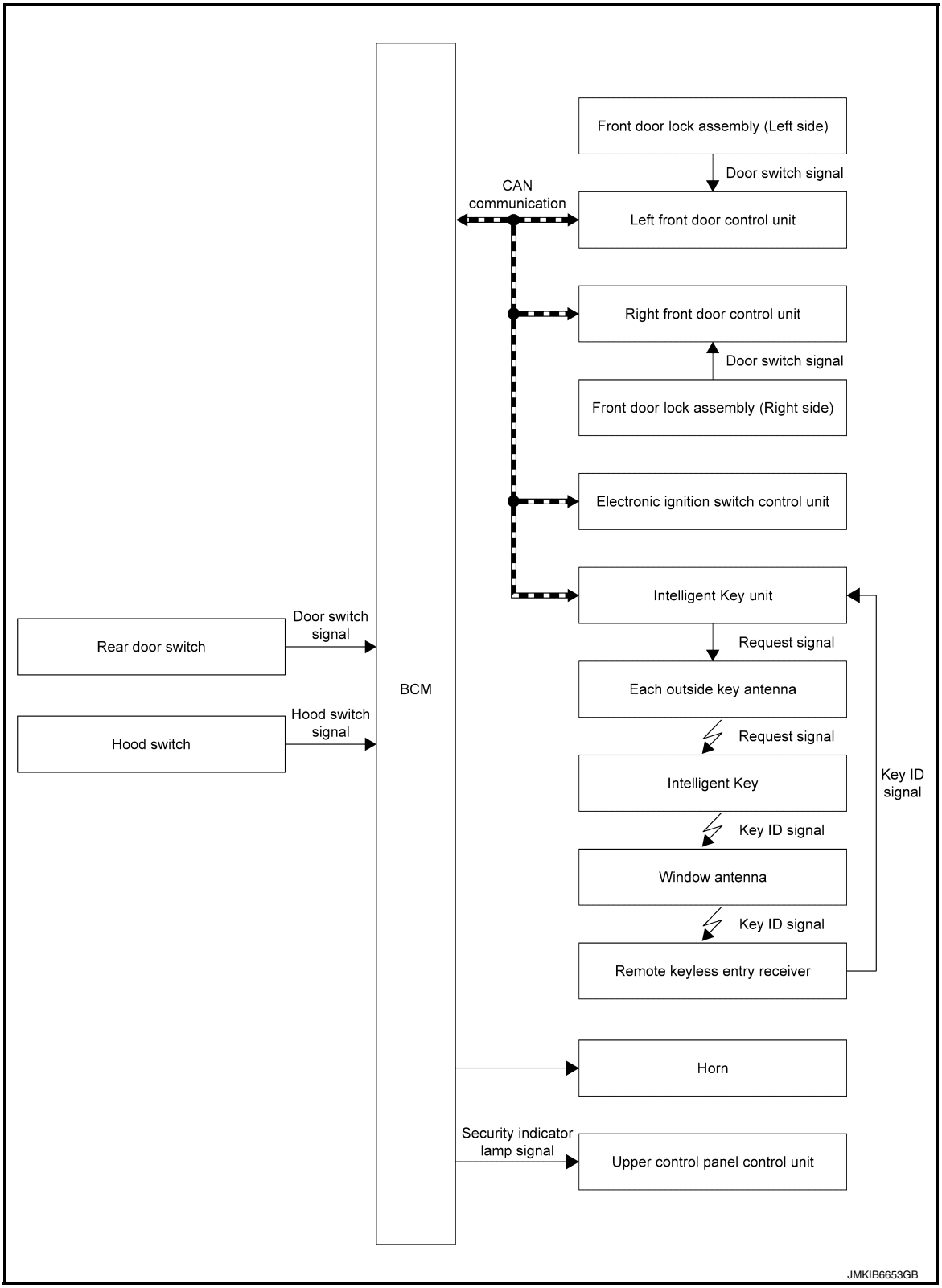


VEHICLE SECURITY SYSTEM

VEHICLE SECURITY SYSTEM : System Description

INFOID:0000000013559817

SYSTEM DIAGRAM



CAN COMMUNICATION SIGNAL ITEM

Transmit unit	Signal name	Receive unit
Front door control unit	Door switch signal	BCM
Electronic ignition switch control unit	Central locking status signal	BCM
Front door control unit	Key ID signal	Electronic ignition switch control unit
Electronic ignition switch control unit	Ignition switch ON signal	BCM

SYSTEM DESCRIPTION

- The system reduces the possibility of a theft or mischief by sounding horns and blinking hazard warning lamp continuously. The system activates horns and hazard warning lamp when detecting that the door or hood is opened, or there is an illegal attempt to enter into the passenger room.
- Security indicator lamp on upper control panel control unit always blinks when ignition switch is OFF position other than ON to warn that the vehicle is equipped with a VEHICLE SECURITY SYSTEM.

Disarmed Phase

VEHICLE SECURITY SYSTEM switches to the DISARMED phase while any doors or hood is open because it is assumed that the owner is in or nearby the vehicle.

Armed Phase

- VEHICLE SECURITY SYSTEM switches to the ARMED phase when all doors are locked by Intelligent Key or door request switch, while all doors and hood are closed.

Alarm Phase

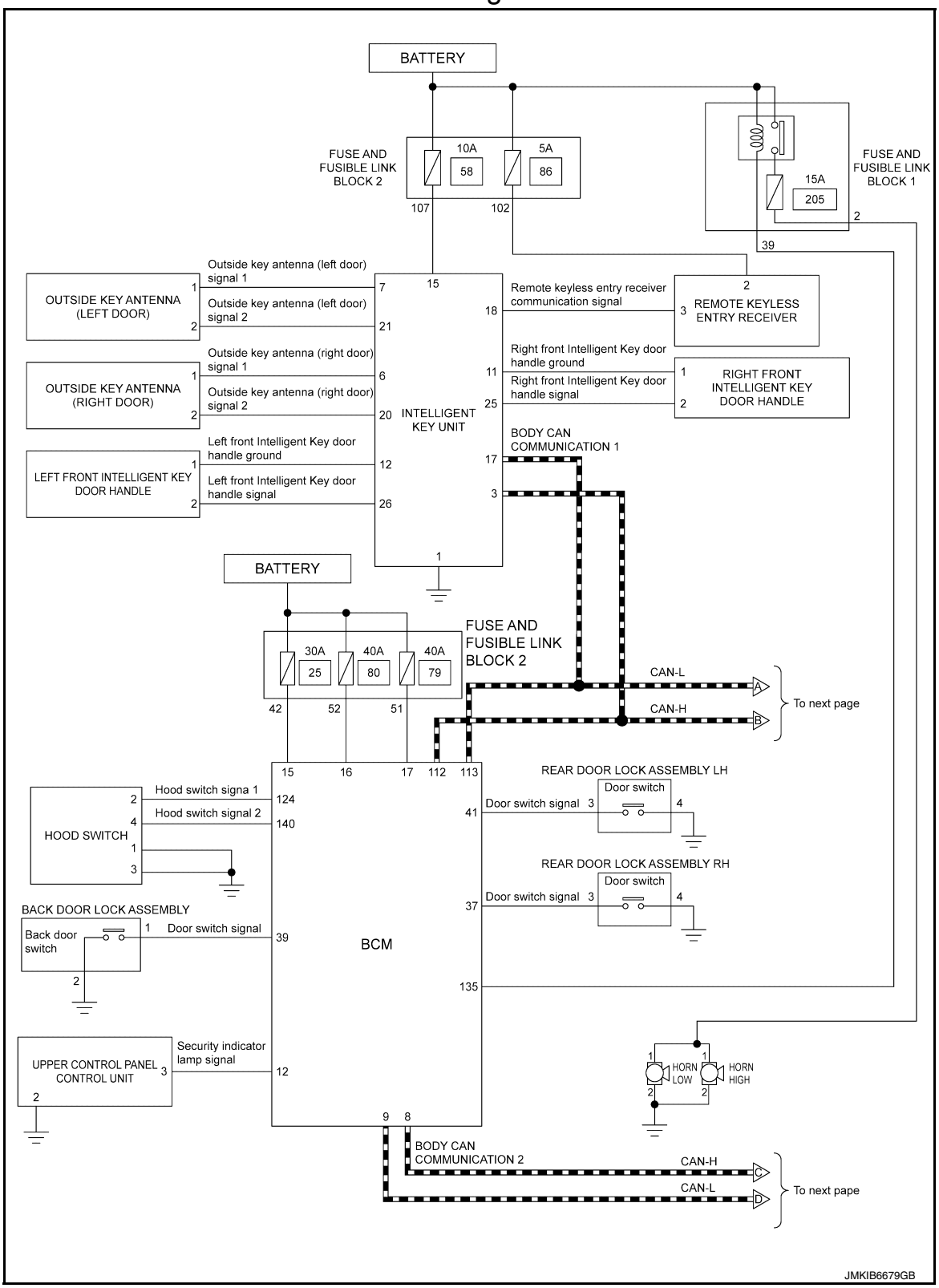
- VEHICLE SECURITY SYSTEM sounds alarm for approximately 30 seconds and flashes hazard lamp for 300 seconds when any of the following conditions in "ARMED PHASE" is satisfied.

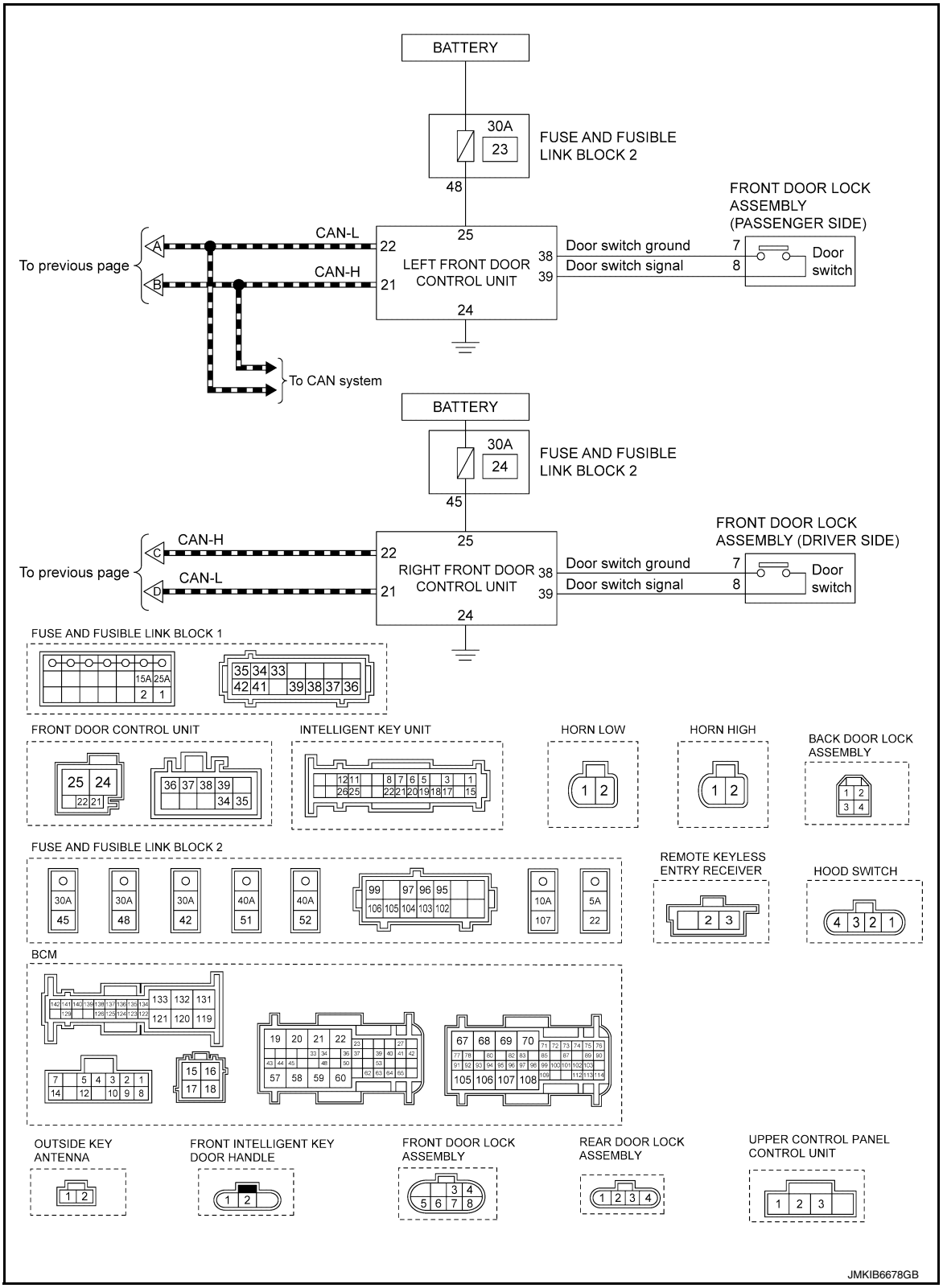
- When any door or hood is open

- VEHICLE SECURITY SYSTEM deactivates horns when door is unlocked by Intelligent Key or door request switch, or the ignition switch is switched to the ACC or ON position while horns are activated.

VEHICLE SECURITY SYSTEM : Circuit Diagram

INFOID:0000000013559818




BATTERY
30A
23
FUSE AND FUSIBLE LINK BLOCK 2
48
FRONT DOOR LOCK ASSEMBLY (PASSENGER SIDE)
CAN-L
CAN-H
To previous page
A
B
22
21
25
24
LEFT FRONT DOOR CONTROL UNIT
38
39
Door switch ground
Door switch signal
7
8
Door switch
To CAN system
BATTERY
30A
24
FUSE AND FUSIBLE LINK BLOCK 2
45
FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)
CAN-H
CAN-L
To previous page
C
D
RIGHT FRONT DOOR CONTROL UNIT
FUSE AND FUSIBLE LINK BLOCK 1
FRONT DOOR CONTROL UNIT
INTELLIGENT KEY UNIT
HORN LOW
HORN HIGH
BACK DOOR LOCK ASSEMBLY
FUSE AND FUSIBLE LINK BLOCK 2
REMOTE KEYLESS ENTRY RECEIVER
HOOD SWITCH
BCM
OUTSIDE KEY ANTENNA
FRONT INTELLIGENT KEY DOOR HANDLE
FRONT DOOR LOCK ASSEMBLY
REAR DOOR LOCK ASSEMBLY
UPPER CONTROL PANEL CONTROL UNIT
JMKIB6678GB

ECU DIAGNOSIS INFORMATION

BCM, ELECTRONIC IGNITION SWITCH CONTROL UNIT

List of ECU Reference

INFOID:0000000013559825

ECU	Reference
BCM	BCS-32, "Reference Value"
	BCS-50, "Fail-safe"
	BCS-51, "DTC Index"
Electronic ignition switch control unit	PCS-10, "Reference Value"
	PCS-12, "Fail-safe"
	PCS-12, "DTC Index"

FRONT DOOR CONTROL UNIT

List of ECU Reference

INFOID:0000000013709988

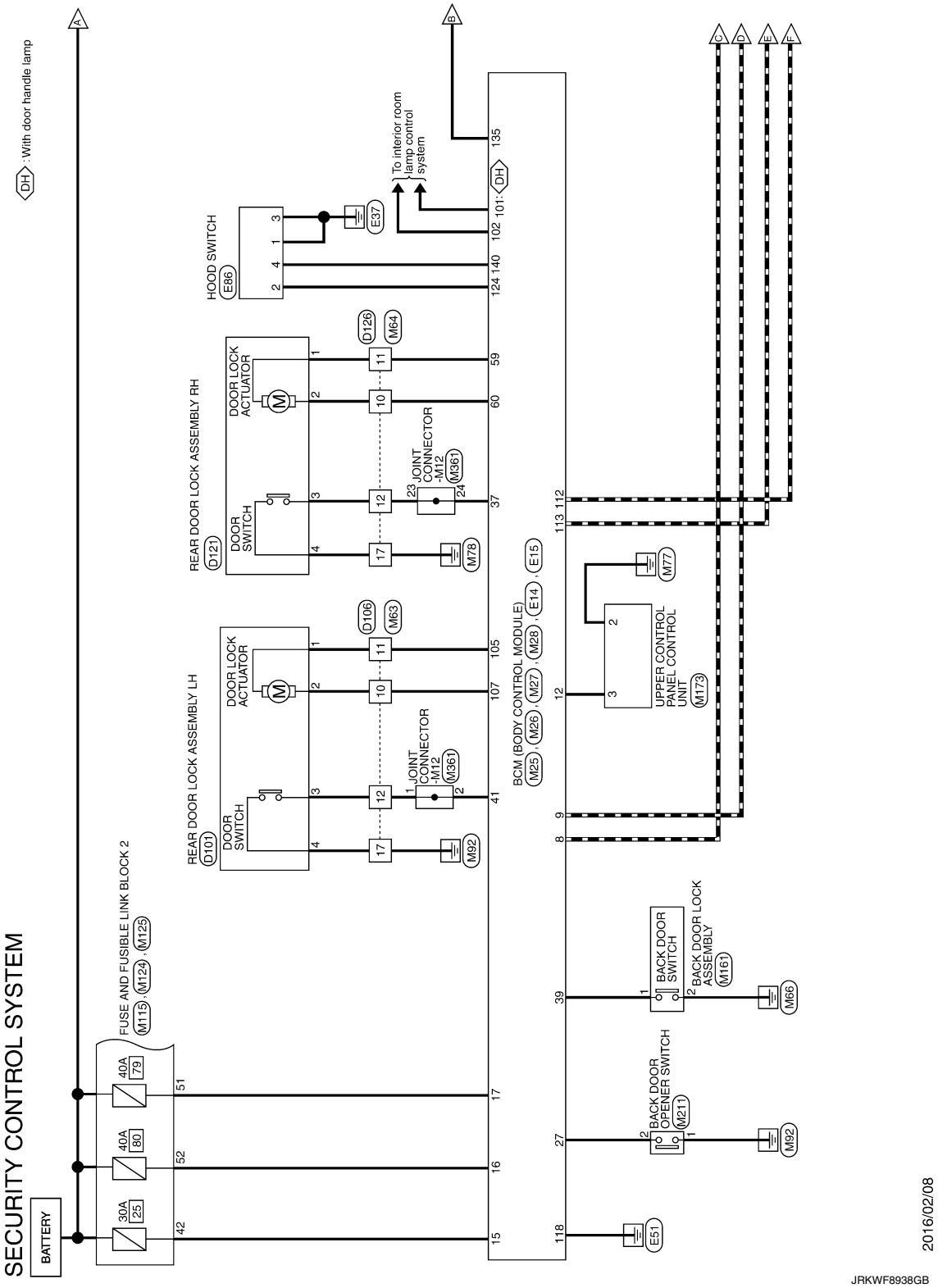
ECU	Reference
LEFT FRONT DOOR CONTROL UNIT	DLK-50, "Reference Value"
	DLK-57, "Fail-safe"
	DLK-58, "DTC Inspection Priority Chart"
	DLK-60, "DTC Index"
RIGHT FRONT DOOR CONTROL UNIT	DLK-62, "Reference Value"
	DLK-68, "Fail-safe"
	DLK-69, "DTC Inspection Priority Chart"
	DLK-70, "DTC Index"

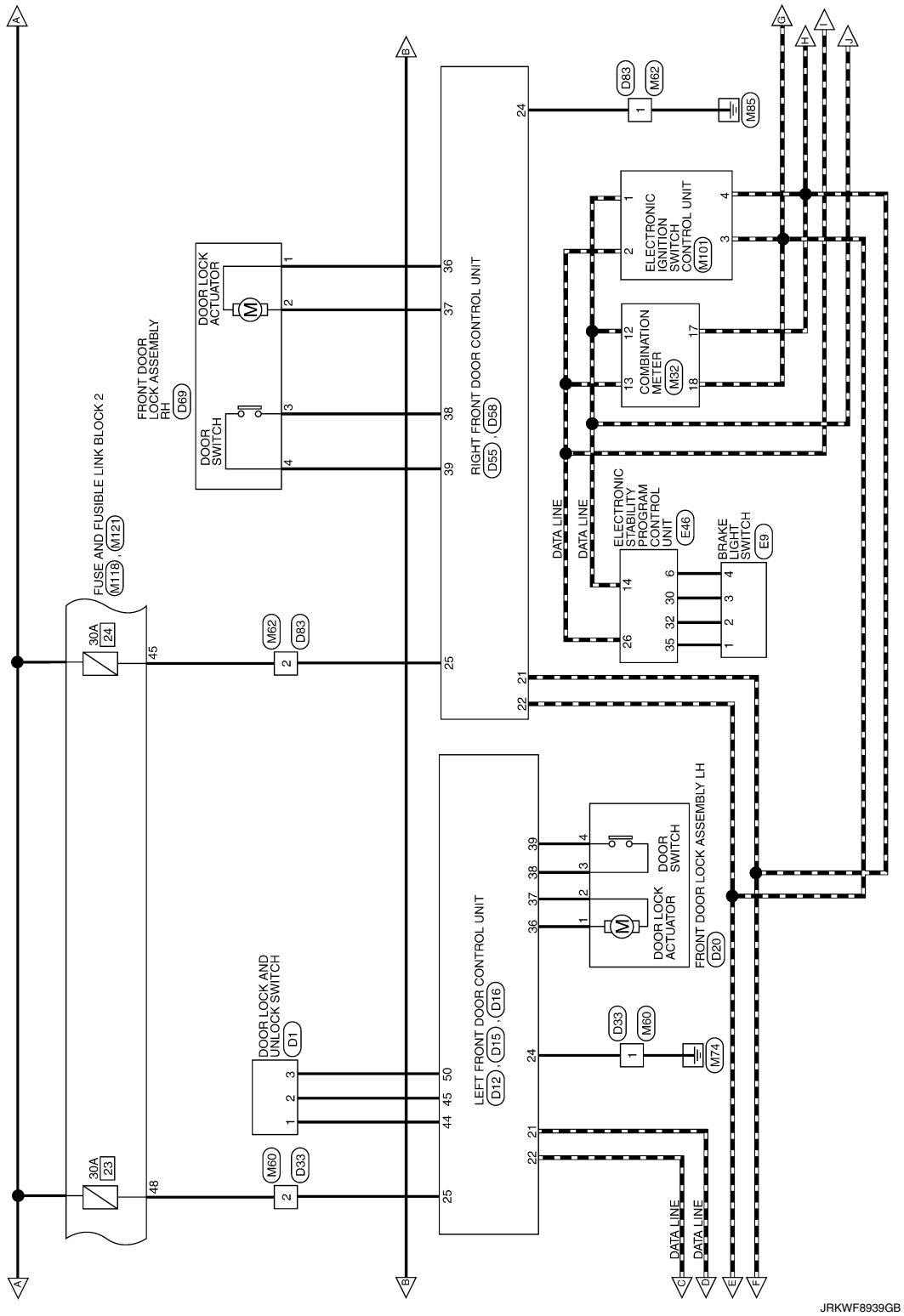
WIRING DIAGRAM

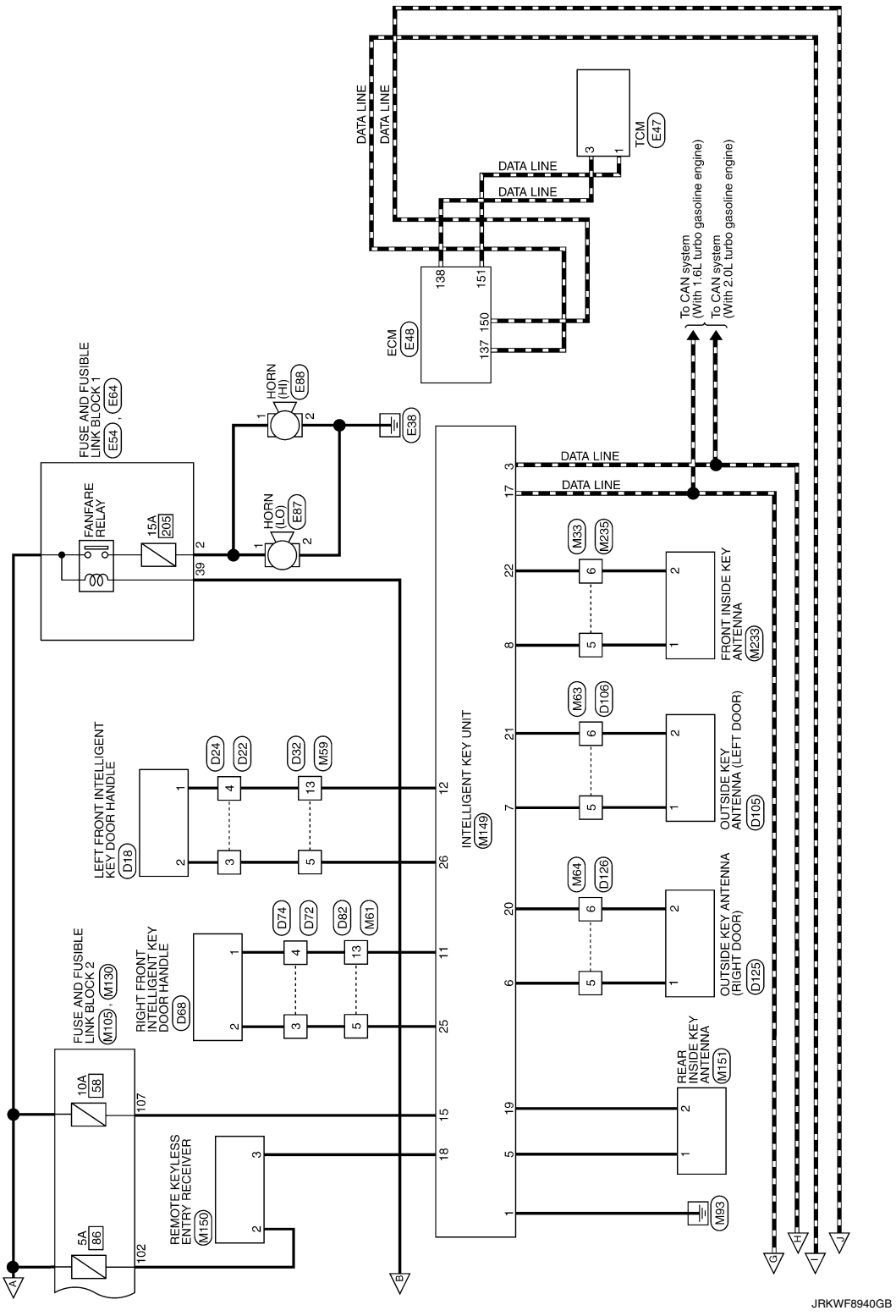
SECURITY CONTROL SYSTEM

Wiring Diagram

INFOID:0000000013559827




FUSE AND FUSIBLE LINK BLOCK 2
(M118), (M121)
30A 24
30A 23
FRONT DOOR LOCK ASSEMBLY RH
D69
DOOR LOCK ACTUATOR
DOOR SWITCH
DOOR LOCK AND UNLOCK SWITCH
D1
RIGHT FRONT DOOR CONTROL UNIT
D55, D58
LEFT FRONT DOOR CONTROL UNIT
D12, D15, D16
FRONT DOOR LOCK ASSEMBLY LH
D20
ELECTRONIC IGNITION SWITCH CONTROL UNIT
M101
COMBINATION METER
M32
ELECTRONIC STABILITY PROGRAM CONTROL UNIT
E46
BRAKE LIGHT SWITCH
E9
DATA LINE
M62
D83
M60
D33
M74
M85
JRKWF8939GB


DATA LINE
DATA LINE
TCM
E47
DATA LINE
DATA LINE
To CAN system
(With 1.6L turbo gasoline engine)
To CAN system
(With 2.0L turbo gasoline engine)
ECM
E48
138
151
150
137
HORN
(HI)
E88
E38
FUSE AND FUSIBLE
LINK BLOCK 1
E54
E64
FANFARE
RELAY
15A
205
HORN
(LO)
E87
39
DATA LINE
DATA LINE
INTELLIGENT KEY UNIT
M149
M33
M235
FRONT INSIDE KEY
ANTENNA
M233
M63
D106
OUTSIDE KEY
ANTENNA (LEFT DOOR)
D105
M64
D126
OUTSIDE KEY ANTENNA
(RIGHT DOOR)
D125
REAR
INSIDE KEY
ANTENNA
M151
M93
LEFT FRONT INTELLIGENT
KEY DOOR HANDLE
D18
D24
D22
D32
M59
RIGHT FRONT
INTELLIGENT KEY
DOOR HANDLE
D68
D74
D72
D82
M61
FUSE AND FUSIBLE
LINK BLOCK 2
M105
M130
10A
58
5A
86
107
102
REMOTE KEYLESS
ENTRY RECEIVER
M150
JRKWF8940GB

SECURITY CONTROL SYSTEM

Connector No.	D1
Connector Name	DOOR LOCK AND UNLOCK SWITCH
Connector Type	MB_A0395456628

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	G	-

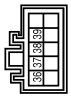
Connector No.	D12
Connector Name	LEFT FRONT DOOR CONTROL UNIT
Connector Type	MB_A0025406281

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
21	BR	BODY CAN 2-L
22	R	BODY CAN 2-H
23	L	ROTARY CATCH SIGNAL
24	BR	GROUND
25	R	BATTERY POWER SUPPLY

Connector No.	D15
Connector Name	LEFT FRONT DOOR CONTROL UNIT
Connector Type	MB_A0055403481

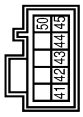
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
36	G	DOOR LOCK
37	G/B	DOOR UNLOCK
38	BR/W	DOOR OPEN SW GND
39	BR/P	DOOR OPEN SIG

Connector No.	D16
Connector Name	LEFT FRONT DOOR CONTROL UNIT
Connector Type	MB_A0255459626

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
41	P	POWER WINDOW SW SIG (LIN)
42	BR	POWER WINDOW SW GND
43	R	POWER WINDOW SW PWR
44	L	DOOR LOCK AND UNLOCK SW SIG
45	W	DOOR LOCK AND UNLOCK SW GND
50	G	DOOR LOCK AND UNLOCK SW IND

Connector No.	D18
Connector Name	LEFT FRONT INTELLIGENT KEY DOOR HANDLE
Connector Type	MB_A2115450828

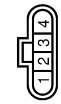
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	L	-

Connector No.	D20
Connector Name	FRONT DOOR LOCK ASSEMBLY LH
Connector Type	MB_A0225452726

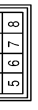
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	B	-
3	BR	-
4	P	-

Connector No.	D22
Connector Name	WIRE TO WIRE
Connector Type	MB_A0255458826

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	BR	-
3	P	-
4	B	-
5	R	-
6	W	-
7	B	-
8	SHIELD	-

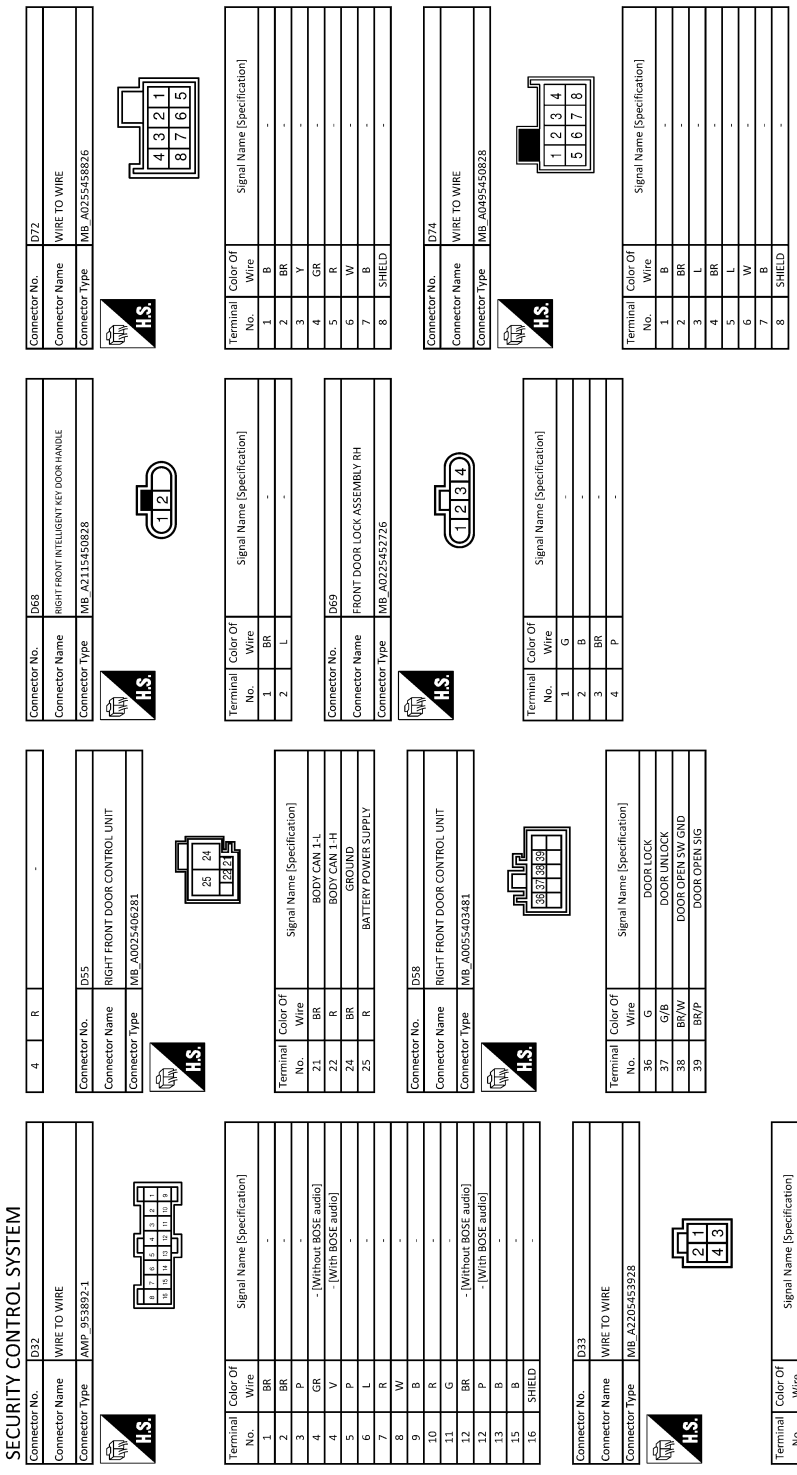
Connector No.	D24
Connector Name	WIRE TO WIRE
Connector Type	MB_A0495450828

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	BR	-
3	L	-
4	BR	-
5	L	-
6	W	-
7	B	-
8	SHIELD	-

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SECURITY CONTROL SYSTEM



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SECURITY CONTROL SYSTEM

Connector No.	D82
Connector Name	WIRE TO WIRE
Connector Type	AMP_953892-1

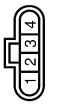
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	BR	-
3	G	-
4	GR	- [Without BOSE audio]
4	L	- [With BOSE audio]
5	Y	-
7	R	-
8	W	-
9	BR	-
10	R	-
11	G	-
12	BR	- [Without BOSE audio]
12	G	- [With BOSE audio]
13	GR	-
15	B	-
16	SHIELD	-

Connector No.	D101
Connector Name	REAR DOOR LOCK ASSEMBLY LH
Connector Type	MB_A0225452726

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	RR DOOR LH UNLOCK
2	L	RR DOOR LH LOCK
3	W	RR DOOR LH STATUS
4	BR	GND

Connector No.	D105
Connector Name	OUTSIDE KEY ANTENNA (LEFT DOOR)
Connector Type	MB_A0375455928

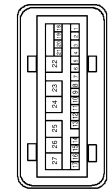
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	V	-

Connector No.	D106
Connector Name	WIRE TO WIRE
Connector Type	MB_A0085408981

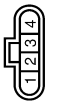
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	B	-
3	G	- [Without BOSE audio]
3	W	- [With BOSE audio]
4	B	- [With BOSE audio]
4	L	- [Without BOSE audio]
5	G	-
6	V	-
8	W	-
9	P	-
10	L	-
11	G	-
12	W	-
13	O	-
14	W	-
15	R	-
16	Y	-
17	BR	-
19	GR	-
20	W	-
21	R	-
26	G	-
27	L	-

Connector No.	D121
Connector Name	REAR DOOR LOCK ASSEMBLY RH
Connector Type	MB_A0225452726

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	RR DOOR RH UNLOCK
2	L	RR DOOR RH LOCK
3	W	RR DOOR RH STATUS
4	BR	GND

Connector No.	D125
Connector Name	OUTSIDE KEY ANTENNA (RIGHT DOOR)
Connector Type	MB_A0375455928

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	-
2	O	-

Connector No.	D83
Connector Name	WIRE TO WIRE
Connector Type	MB_A2205453928

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	R	-
3	R	-
4	W	-

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Connector No.	D126
Connector Name	WIRE TO WIRE
Connector Type	MB_A0085408981

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	B	-
3	L	-
4	P	-
5	GR	-
6	O	-
8	W	-
9	P	-
10	L	-
11	G	-
12	W	-
13	O	-
14	W	-
15	R	-
16	Y	-
17	BR	-
19	GR	-
20	W	-
21	R	-
26	G	-
27	L	-

Connector No.	E9
Connector Name	BRAKE LIGHT SWITCH
Connector Type	MB_A0325459828

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	L	-
3	V	-
4	B	-

Connector No.	E14
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	MB_A0235458926

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
115	R	BAT (VIA DECOUPLING RELAY)
117	R	BAT (VIA DECOUPLING RELAY)
118	BR	GND

Connector No.	E15
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	MB_A1665400081

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
119	V	RR WASHER CONT
120	GR	FR WASHER CONT
121	W	BRAKE PEDAL
122	Y	SPARY NOZZLE HOSE HEATER POWER SUPPLY
123	G	INJECTION RELAY CONT
124	BR	HOOD SWITCH STATUS 1
125	B	K L15 MOTORST
126	GR	PARKING LAMP LH
129	G	FRONT WIPER STOP POSITION
131	Y	FRONT FOG LAMP LH
132	O	HIGH BEAM LH
133	L	LOW BEAM RH [With halogen lamp]
133	Y	LOW BEAM RH [With LED lamp]
134	BR	WASHER LEVEL SW GND
135	P	HORN CONT
136	R	FR WIPER RELAY CONT
137	V	FR WIPER HI/LO RELAY CONT
138	G	BRAKE FLUID LEVEL SW SIG
139	L	WASHER LEVEL SW SIG
140	Y	HOOD SWITCH STATUS 2
141	R	WARM START
142	V	FRONT TURN SIGNAL LH

Connector No.	E46
Connector Name	ELECTRONIC STABILITY PROGRAM CONTROL UNIT
Connector Type	MB_A2465400581

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	MOTOR POWER SUPPLY
2	W	BRAKE PEDAL
4	P	RIGHT FRONT AXLE RPM SENSOR SIGNAL
5	GR	BRAKE VACUUM SENSOR POWER SUPPLY
6	B	BRAKE LIGHT SWITCH-L
7	R	BATTERY POWER SUPPLY
8	Y	LFET FRONT AXLE RPM SENSOR SIGNAL
10	O	STANDSTILL CONTROL (SSC) STATUS
12	P	BRAKE VACUUM SENSOR SIGNAL
13	BR	GROUND (MOTOR)
14	G	CAN-L
16	B	RIGHT FRONT AXLE RPM SENSOR POWER SUPPLY
17	Y	RIGHT REAR AXLE RPM SENSOR POWER SUPPLY
18	BR	LFET REAR AXLE RPM SENSOR SIGNAL
19	W	LFET FRONT AXLE RPM SENSOR POWER SUPPLY
23	B	BRAKE VACUUM SENSOR GROUND
25	P	VALVE RELAY POWER SUPPLY
26	W	CAN-H
28	R	BATTERY POWER SUPPLY
29	P	RIGHT REAR AXLE RPM SENSOR SIGNAL
30	V	BRAKE LIGHT SWITCH-H
31	GR	LFET REAR AXLE RPM SENSOR POWER SUPPLY
32	L	BRAKE LIGHT SWITCH GROUND
35	R	BRAKE LIGHT SWITCH POWER SUPPLY
38	B	GROUND (VALVE)

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SECURITY CONTROL SYSTEM

Connector No.	E47
Connector Name	TCM
Connector Type	MB_A2465450026

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	CAN-L
2	V	NOT P
3	GR	CAN-H
5	W	BATTERY POWER SUPPLY

Connector No.	E48
Connector Name	ECM
Connector Type	MB_A0075406981

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
97	R	POWER SUPPLY (ECM)
98	BR	ECM GROUND
99	V	POWER SUPPLY (ECM)
100	BR	ECM GROUND
101	R	POWER SUPPLY (ECM)
102	B	ECM GROUND
103	L	COOLING FAN CONTROL SIGNAL
104	R	SENSOR POWER SUPPLY (ACCELERATOR PEDAL POSITION SENSOR 1)
105	G	SENSOR POWER SUPPLY (ACCELERATOR PEDAL POSITION SENSOR 2)
106	BR	SENSOR GROUND (ACCELERATOR PEDAL POSITION SENSOR 1)
111	B	IGNITION SIGNAL
112	Y	POWER SUPPLY (BATTERY)
116	W	STARTER RELAY-L
119	GR	SENSOR GROUND (ACCELERATOR PEDAL POSITION SENSOR 2)
120	O	SENSOR GROUND
122	R	HOT START SIGNAL
123	GR	MOTOR RELAY CONTROL SIGNAL
127	O	FUEL PUMP ON SIGNAL
132	G	ACCELERATOR PEDAL POSITION SENSOR 1
136	Y	POWERTRAIN SENSOR CAN-H
137	W	CAN-H
138	GR	POWERTRAIN CAN-H
141	B	WATER PUMP RELAY CONTROL SIGNAL
145	W	ACCELERATOR PEDAL POSITION SENSOR 2
146	G	FUEL TANK PRESSURE SENSOR
147	L	CRASH SIGNAL
148	W	STARTER RELAY-H
149	B	POWERTRAIN SENSOR CAN-L
150	G	CAN-L
151	L	POWERTRAIN CAN-L
152	V	EVAP CANISTER VENT CONTROL VALVE
153	BR	EVAP PURGE CONTROL VALVE

Connector No.	E54
Connector Name	FUSE AND FUSIBLE LINK BLOCK 1
Connector Type	MB_A0055459701

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	B	-

Connector No.	E64
Connector Name	FUSE AND FUSIBLE LINK BLOCK 1
Connector Type	MB_A0315459626

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
33	BR	-
34	G	-
35	V	-
36	P	-
37	R	-
38	V	-
39	P	-
41	W	-
42	R	-

Connector No.	E86
Connector Name	HOOD SWITCH
Connector Type	MB_A2125450226

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	BR	-
3	B	-
4	Y	-

Connector No.	E87
Connector Name	HORN (LO)
Connector Type	MB_A0525453826

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	BR	-

Connector No.	E88
Connector Name	HORN (HI)
Connector Type	MB_A0525453826

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	BR	-

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Connector No.	M25
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	MB_A0075405081

Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	ROTARY LIGHT SW GND
2	O	ROTARY LIGHT SW (PL/PR/TAL)
3	R	ROTARY LIGHT SW (AUTO/LOW)
4	G	ROTARY LIGHT SW (FR FOG)
5	Y	-
7	GR	SWITCH INDICATOR
8	R	CAN-H (BODY 2)
9	BR	CAN-L (BODY 2)
12	O	LIN (IBS)
14	G	FOOT LAMP

Connector No.	M26
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	MB_A0235459826

Terminal No.	Color Of Wire	Signal Name [Specification]
15	W	BAT (FUSE)
16	BR	BAT (FUSE)
17	R	BAT (FUSE)
18	B	GND

Connector No.	M27
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	MB_A1665400381

Terminal No.	Color Of Wire	Signal Name [Specification]
19	Y	RR POWER WINDOW MOTOR RH CONT (UP)
20	G	RR POWER WINDOW MOTOR RH CONT (DOWN)
21	B	RR POWER WINDOW MOTOR LH CONT (UP)
22	GR	RR POWER WINDOW MOTOR LH CONT (DOWN)
23	P	AIR BAG SIGNAL
27	GR	BACK DOOR OPENER SW
33	O	RR POWER WINDOW SW LH GND
34	BR	RR POWER WINDOW SW LH (DOWN)
36	O	RR POWER WINDOW SW LH (UP)
37	W	RR DOOR RH STATUS
39	Y	BACK DOOR STATUS
40	V	BACK DOOR LAMP
41	W	RR DOOR LH STATUS
42	V	LUGGAGE ROOM LAMP
43	GR	BACK-UP LAMP LH
44	W	HIGH-MOUNTED STOP LAMP
45	O	TAIL LAMP (BODY RH)
48	GR	TAIL LAMP (BK RH)
50	GR	-
57	Y	STOP LAMP (BODY LH)
58	B	REAR TURN SIGNAL RH
59	P	RR DOOR RH UNLOCK
60	G	RR DOOR RH LOCK
62	GR	LICENSE PLATE LAMP LH
63	W	HALL SENSOR LH SIGNAL
64	GR	HALL SENSOR LH GND
65	R	HALL SENSOR LH POWER SUPPLY

Connector No.	M28
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	MB_A1665400481

Terminal No.	Color Of Wire	Signal Name [Specification]
67	V	BACK DOOR UNLOCK
69	GR	STOP LAMP (BODY RH)
70	B	REAR TURN SIGNAL LH
71	GR	BACK-UP LAMP RH
72	Y	LICENSE PLATE LAMP RH
73	L	RR POWER WINDOW SW RH UP
74	B	RR POWER WINDOW SW RH DOWN
75	L	RR POWER WINDOW SW RH GND
76	GR	HALL SENSOR RH POWER SUPPLY
77	R	SUB BAT-
78	B	TERMINAL RELAY 15R1 CONT
79	B	REAR WIPER RELAY CONT
80	GR	TAIL LAMP (BODY LH)
81	P	TERMINAL RELAY 15R2 CONT
82	B	TAIL LAMP (BK LH)
83	R	BAT (VIA LATCHING TERMINAL RELAY 30G)
84	O	HALL SENSOR RH GND
85	V	HALL SENSOR RH SIGNAL
86	P	FUEL LEVEL SENSOR GND
87	L	FUEL LEVEL SENSOR
88	GR	FUEL LEVEL SENSOR
89	V	FUEL FILLER LID STATUS
90	G	LATCHING TERMINAL RELAY 30G CONT 1
91	B	LATCHING TERMINAL RELAY 30G GND 1
92	W	LATCHING TERMINAL RELAY 30G GND 2
93	V	LATCHING TERMINAL RELAY 30G CONT 2
94	Y	REAR DOOR INSIDE HANDLE LAMP CONT
95	GR	AMBIENT LAMP CONT
96	V	SUB BAT RELAY CONT
97	G	RR DOOR LH UNLOCK
98	B	FUEL FILLER LID UNLOCK
99	W	RR DOOR LH LOCK
100	V	SUB BAT+
101	Y	LIN (ROOF)
102	GR	CAN-L (BODY 1)
103	V	CAN-H (BODY 1)
104		
105	G	
106	W	
107	L	
108	R	
109	O	
110	BR	
111	BR	
112	BR	
113	R	

114	B	INJECTION RELAY CONT

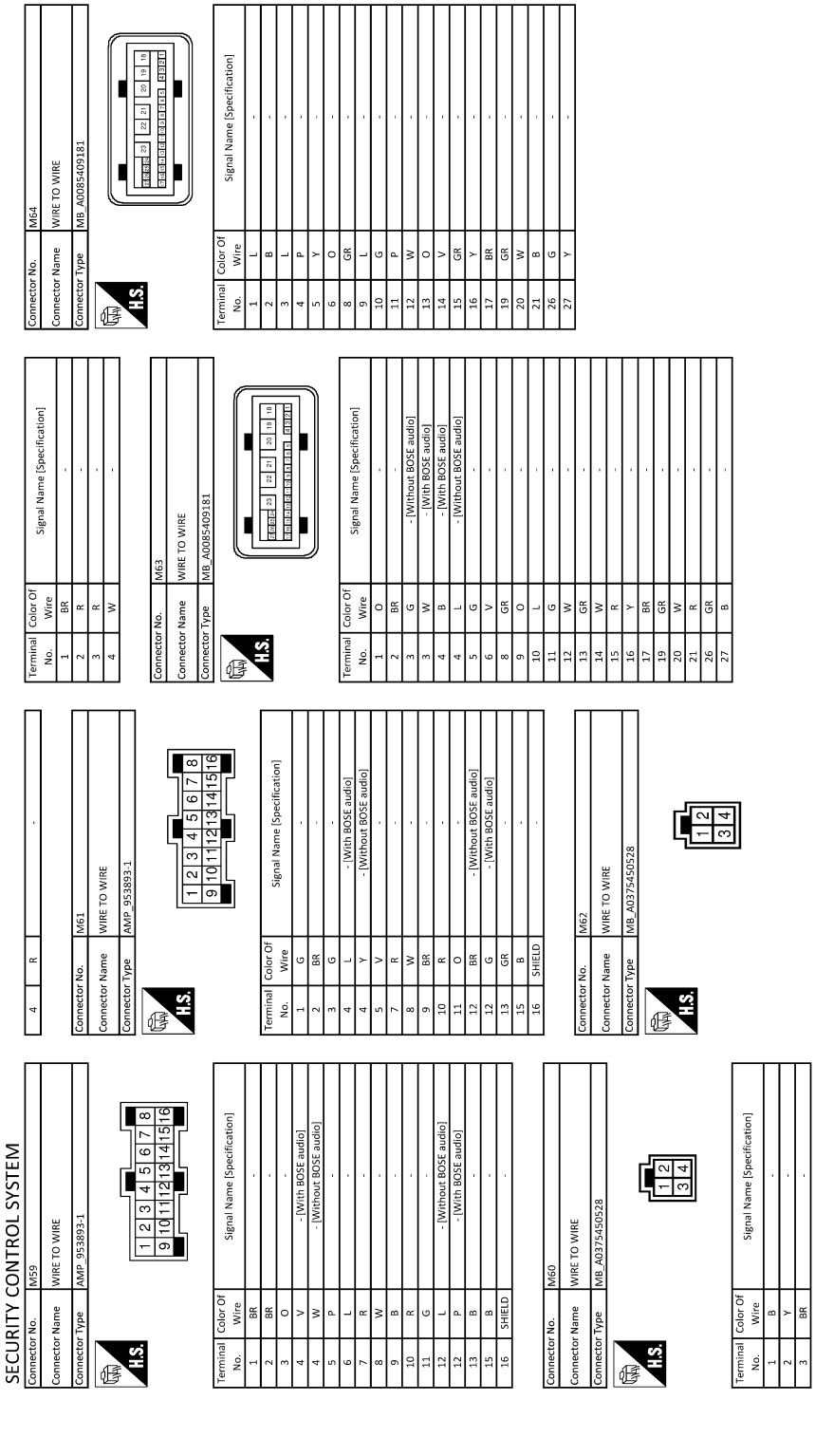
Connector No.	M32
Connector Name	COMBINATION METER
Connector Type	MB_A0525452726

Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	GROUND
4	R	BATTERY POWER SUPPLY
12	GR	CAN-L
13	W	CAN-H
17	BR	CAN-L
18	R	CAN-H

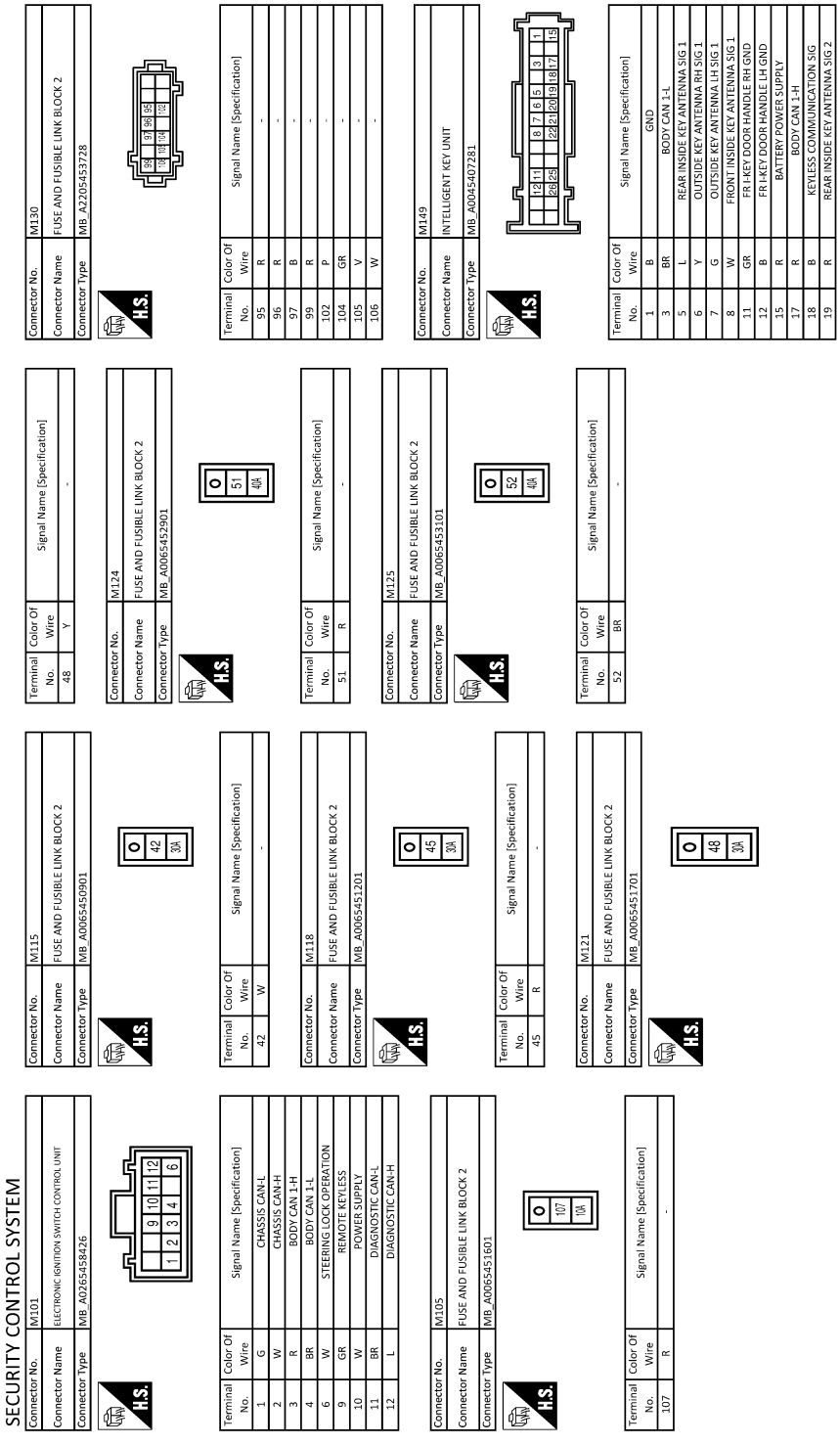
Connector No.	M33
Connector Name	WIRE TO WIRE
Connector Type	MB_A0365458728

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
3	R	-
4	B	-
5	W	-
6	B	-
7	G	-
8	R	-
9	V	-
10	BR	-
11	BR	-
14	BR	-

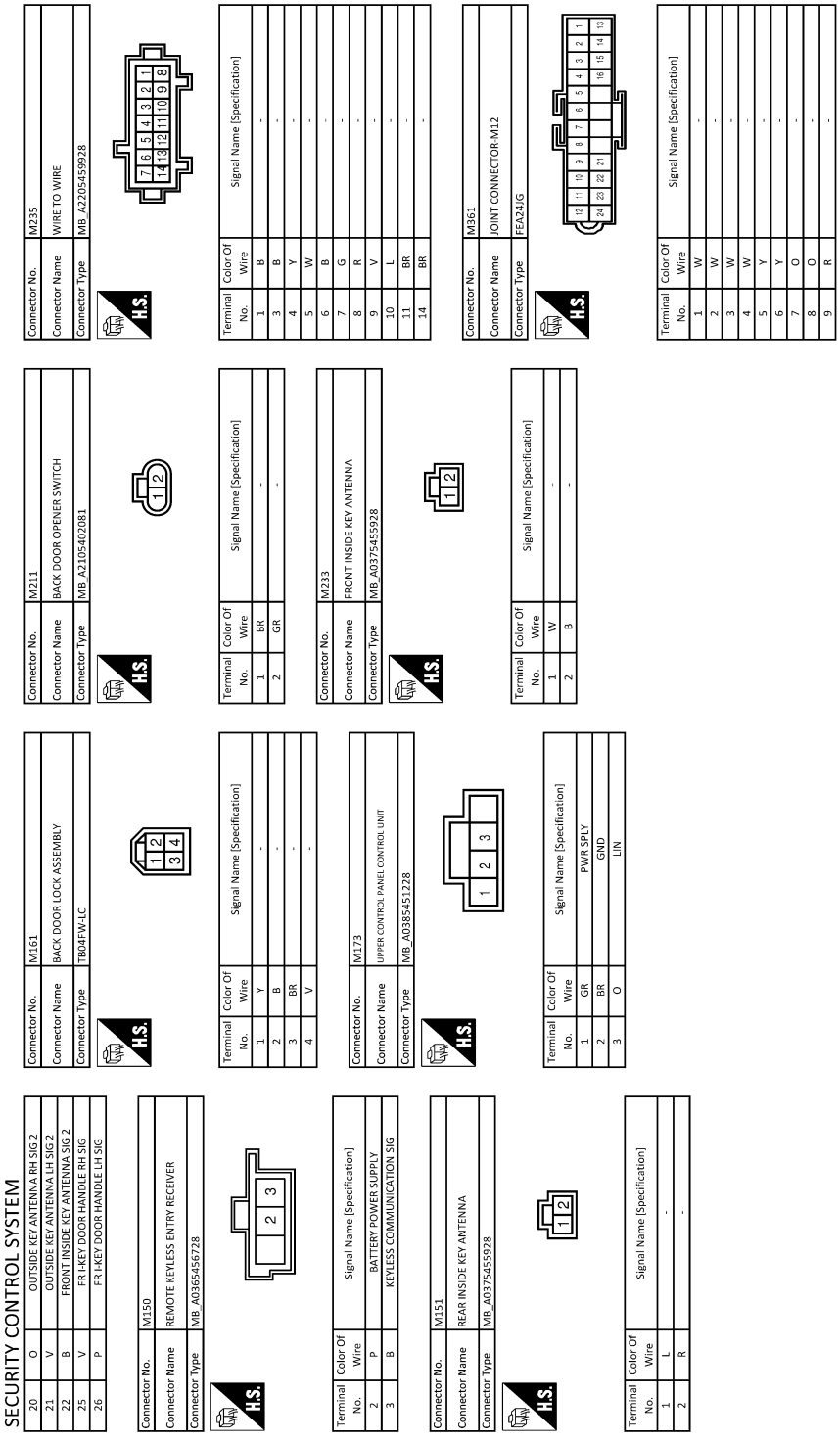
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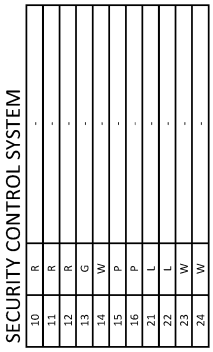
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JRKWF8948GB



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