

SECTION **SCS**

SUSPENSION CONTROL SYSTEM

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

SCS

CONTENTS

| | |
|--|-----------|
| PRECAUTION | 2 |
| PRECAUTIONS | 2 |
| Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER" | 2 |
| Precautions for Performing 2-wheel Drive Test | 2 |
| Precautions for Removing Battery Terminal | 2 |
| SYSTEM DESCRIPTION | 4 |
| COMPONENT PARTS | 4 |
| Component Parts Location | 4 |
| Dynamic Digital Suspension | 5 |
| SYSTEM | 6 |
| System Description | 6 |
| Circuit Diagram | 8 |
| Fail-Safe (Chassis Control Module) | 9 |
| DIAGNOSIS SYSTEM (CHASSIS CONTROL MODULE) | 12 |
| CONSULT Function | 12 |
| ECU DIAGNOSIS INFORMATION | 22 |
| CHASSIS CONTROL MODULE | 22 |
| Reference Value | 22 |
| Fail-Safe (Chassis Control Module) | 33 |
| DTC Inspection Priority Chart | 35 |
| DTC Index | 36 |
| WIRING DIAGRAM | 39 |
| DIGITAL MOTION CONTROL | 39 |
| Wiring Diagram | 39 |
| BASIC INSPECTION | 50 |
| DIAGNOSIS AND REPAIR WORK FLOW | 50 |
| Work Flow | 50 |
| Diagnostic Work Sheet | 51 |
| REMOVAL AND INSTALLATION | 53 |
| DYNAMIC DIGITAL SUSPENSION | 53 |
| Removal and Installation | 53 |
| CHASSIS CONTROL MODULE | 54 |
| Removal and Installation | 54 |

PRECAUTIONS

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PRECAUTION

PRECAUTIONS

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

INFOID:000000013599759

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

WARNING:

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that 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 "SRS AIR BAG".
- Never 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:

Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, never 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 3 minutes before performing any service.

Precautions for Performing 2-wheel Drive Test

INFOID:000000013591298

A vehicle with 2.2L diesel engine or 2.0L turbo gasoline engine of this model limits torque when a difference occurs in each wheel speed. For this reason, it is necessary to use Chassis Dynamometer Mode when performing the 2-wheel drive test (e.g. with 2-wheel chassis dynamometer, speedometer tester).

For Chassis Dynamometer Mode, refer to ENGINE >> ENGINE CONTROL SYSTEM >> BASIC INSPECTION >> CHASSIS DYNAMOMETER MODE >> Description.

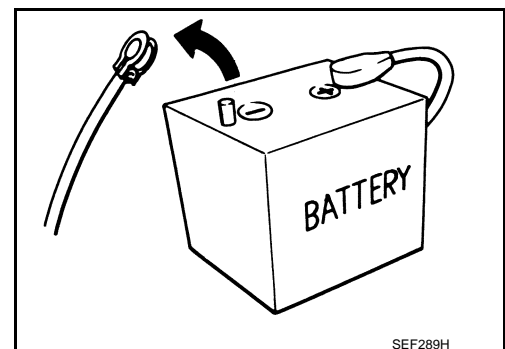
Precautions for Removing Battery Terminal

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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 | V9X engine | : 4 minutes |
| D4D engine | : 20 minutes | YD25DDTi | : 2 minutes |
| HR09DET | : 12 minutes | YS23DDT | : 4 minutes |
| HRA2DDT | : 12 minutes | YS23DDTT | : 4 minutes |
| K9K engine | : 4 minutes | ZD30DDTi | : 60 seconds |



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PRECAUTIONS

< PRECAUTION >

M9R engine : 4 minutes ZD30DDTT : 60 seconds
R9M engine : 4 minutes

A

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.

B

- 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:

C

- 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.

D

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.

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

F

NOTE:

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

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COMPONENT PARTS

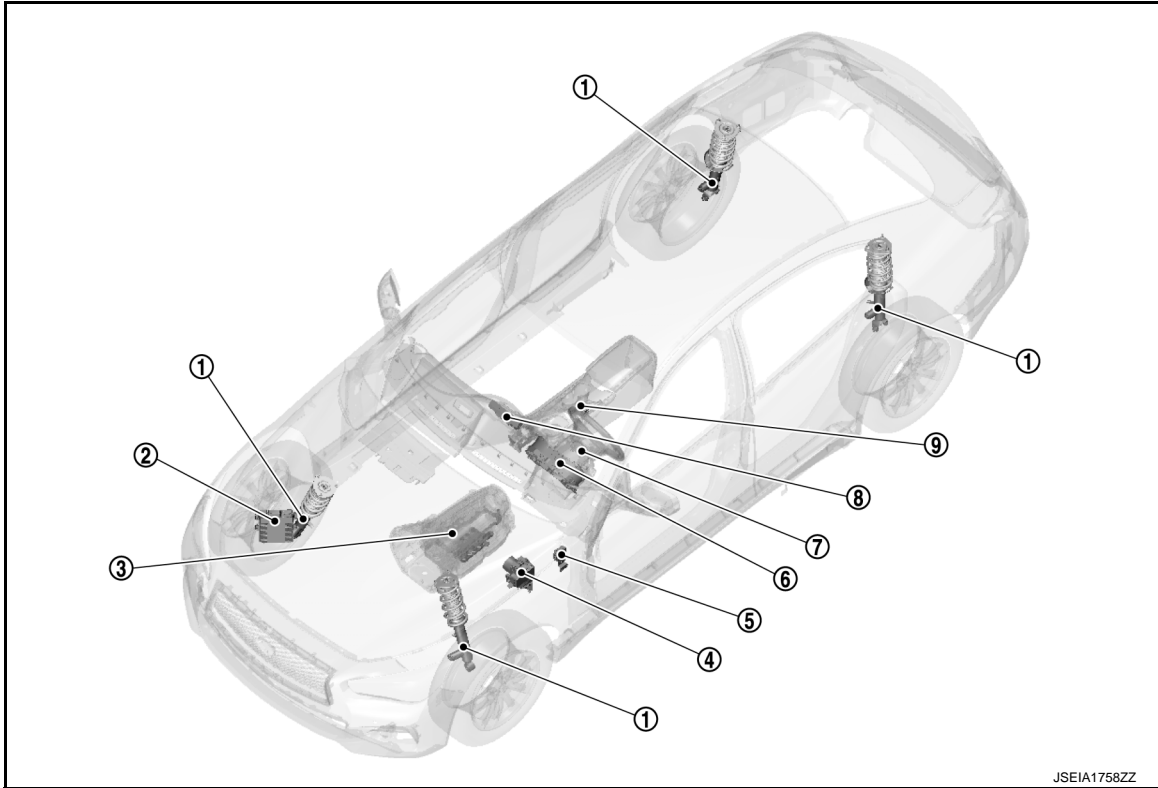
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SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location

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| No. | Component parts | Function |
|-----|---|--|
| ① | Dynamic digital suspension | Refer to SCS-5, "Dynamic Digital Suspension" . |
| ② | ECM | Transmits each engine status to chassis control module via CAN communication. Refer to EC6-33, "ENGINE CONTROL SYSTEM : Component Parts Location" (USA and Canada), EC6-1024, "ENGINE CONTROL SYSTEM : Component Parts Location" (Mexico) for detailed installation location. |
| ③ | TCM | Transmits each transmission status to chassis control module via CAN communication. Refer to TM-13, "A/T CONTROL SYSTEM : Component Parts Location" for detailed installation location. |
| ④ | ABS actuator and electric unit (control unit) | Transmits braking and wheel speed status to chassis control module via CAN communication. Refer to BRC-10, "Component Parts Location" for detailed installation location. |
| ⑤ | Chassis control module | Mainly controls the Digital motion control. Refer to DAS-516, "Component Parts Location" for detailed installation location. |
| ⑥ | Combination meter | Indicates the "Chassis Control" status on information display Refer to MWI-8, "METER SYSTEM : Component Parts Location" for detailed installation location. |
| ⑦ | Steering angle sensor | Transmits steering angle status to chassis control module via CAN communication. Refer to BRC-10, "Component Parts Location" for detailed installation location. |

COMPONENT PARTS

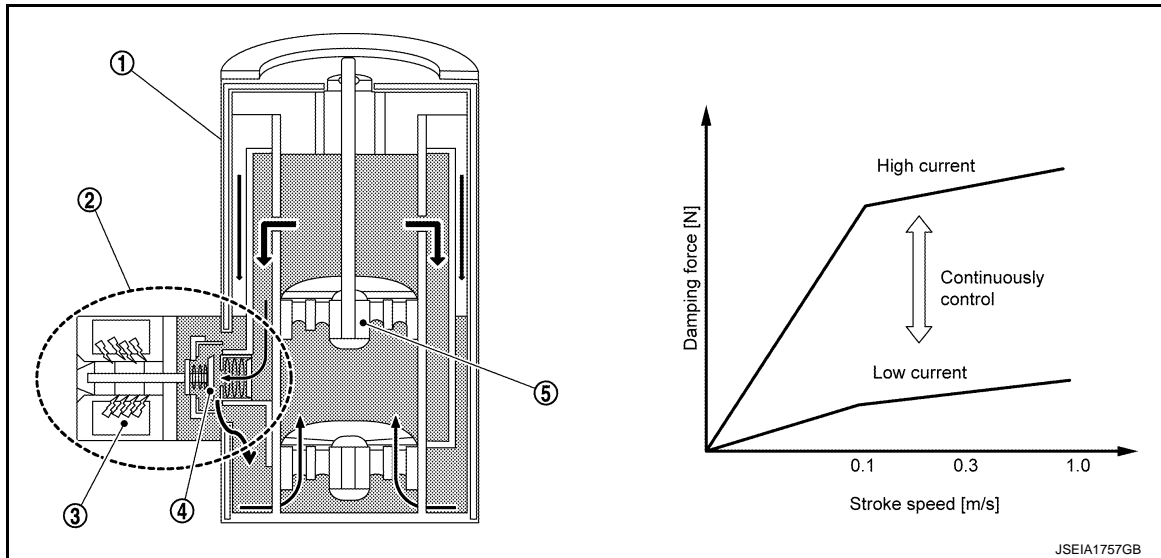
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| No. | Component parts | Function |
|-----|--------------------------|--|
| ⑧ | Display control unit | Transmits the setting state of "Infiniti InTuition" to chassis control module via CAN communication. Refer to AV-14, "Component Parts Location" for detailed installation location. |
| ⑨ | Drive mode select switch | Inputs the drive mode signal to chassis control module unit. Refer to DMS-4, "Component Parts Location" for detailed installation location. |

Dynamic Digital Suspension

INFOID:000000013583975

- Shock absorber actuator is integrated into the dynamic digital suspension on 4 wheels.
- Proportional solenoid valve that is able to operate in high speed is used for shock absorber actuator.
- Shock absorber actuator opens/closes the control valve by moving the solenoid core with the control current from chassis control module to regulate the damping force.



- ① Dynamic digital suspension ② Shock absorber actuator ③ Solenoid core
 ④ Control valve ⑤ Piston
 ← Oil flow

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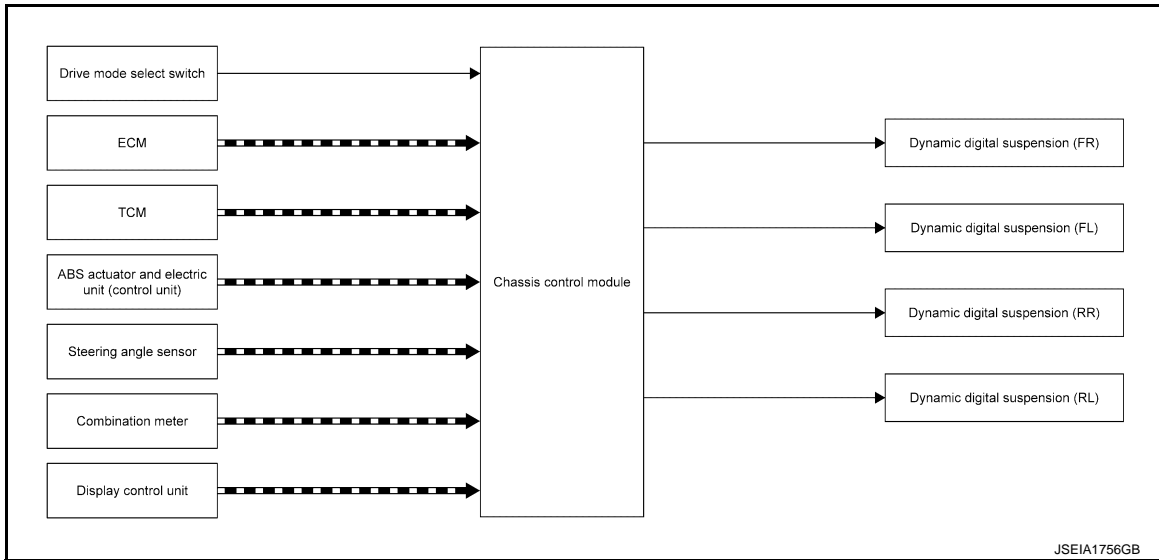
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SYSTEM

System Description

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SYSTEM DIAGRAM



INPUT SIGNAL AND OUTPUT SIGNAL

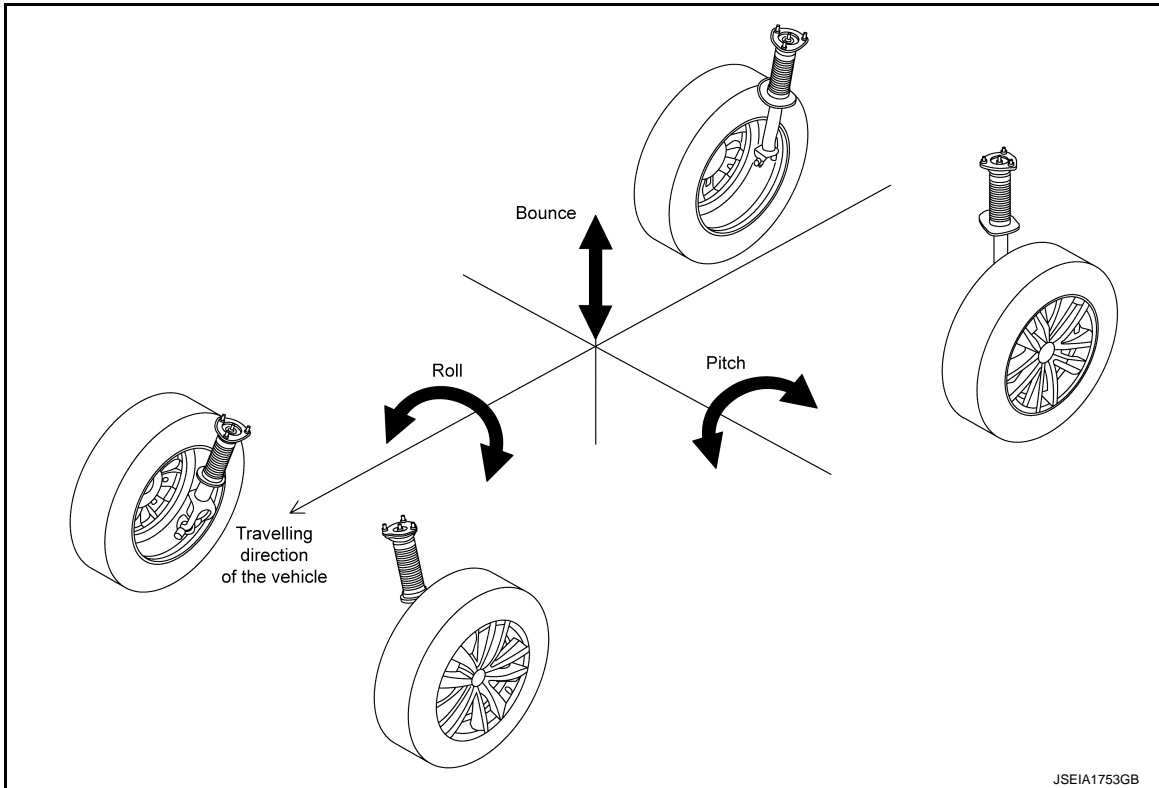
Major signal transmission between each unit via communication lines is shown in the following table.

| Component | Signal description |
|---|--|
| ECM | Mainly transmits the following signals to chassis control module via CAN communication. <ul style="list-style-type: none"> • Accelerator pedal position signal • Engine torque signal • Engine speed signal |
| TCM | Mainly transmits the following signals to chassis control module via CAN communication. <ul style="list-style-type: none"> • Current gear position signal |
| ABS actuator and electric unit (control unit) | Mainly transmits the following signals to chassis control module via CAN communication. <ul style="list-style-type: none"> • Front LH wheel speed signal • Front RH wheel speed signal • Rear LH wheel speed signal • Rear RH wheel speed signal • ABS operation signal • TCS operation signal • VDC operation signal • Stop lamp switch signal • Vehicle speed signal (ABS) • Yaw rate signal • Side G signal • VDC OFF switch signal |
| Steering angle sensor | Mainly transmits the following signals to chassis control module via CAN communication. <ul style="list-style-type: none"> • Steering angle sensor signal |
| Display control unit | Mainly transmits the following signals to chassis control module via CAN communication line. <ul style="list-style-type: none"> • System selection signal |
| Combination meter | Mainly receives the following signals from chassis control module via CAN communication. <ul style="list-style-type: none"> • Chassis control malfunction signal |
| Drive mode select switch | Mainly transmits the following signals to chassis control module. <ul style="list-style-type: none"> • Drive mode signal |

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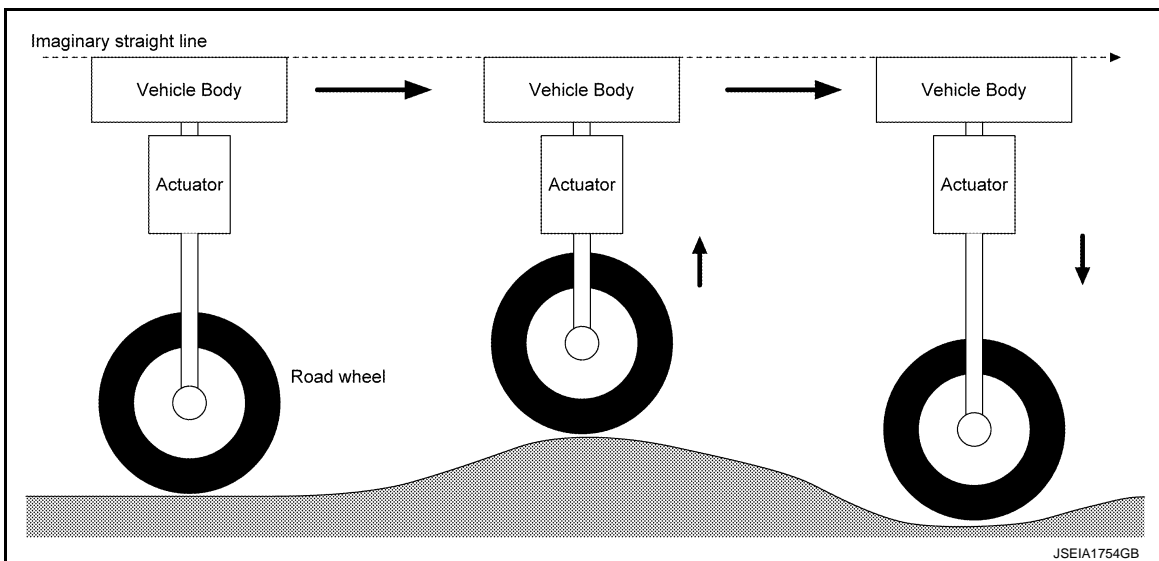
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OUTLINE



- Digital Motion Control is the active suspension control technologies based on “Skyhook theory”. And the system is controlled by chassis control module mainly.
- Chassis control module estimates the body motion (such as bounce, roll and pitch) by each wheel speed and the driving condition according to received signal from each unit via CAN communication.
- Chassis control module controls shock absorber actuator in the most suitable damping force every 1/100 second depending on the estimated body motion.
- High speed proportion solenoid valve is used for shock absorber actuator in the dynamic digital suspension. Thereby, the system is able to achieve “Skyhook Control” continuously.
- The characteristic of suspension control can be changed by “Infiniti InTuition” with each driver. For details, refer to [DMS-13, "Infiniti InTuition : System Description"](#).

SKYHOOK THEORY



- The “Skyhook theory” is an idea that the object can maintain a stable posture if it is moving suspended by an imaginary straight line. The imaginary line (body velocity = 0) is calculated based on the value provided by each signal.
- The advantage by the skyhook theory is follows.

A
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C
D
SCS
F
G
H
I
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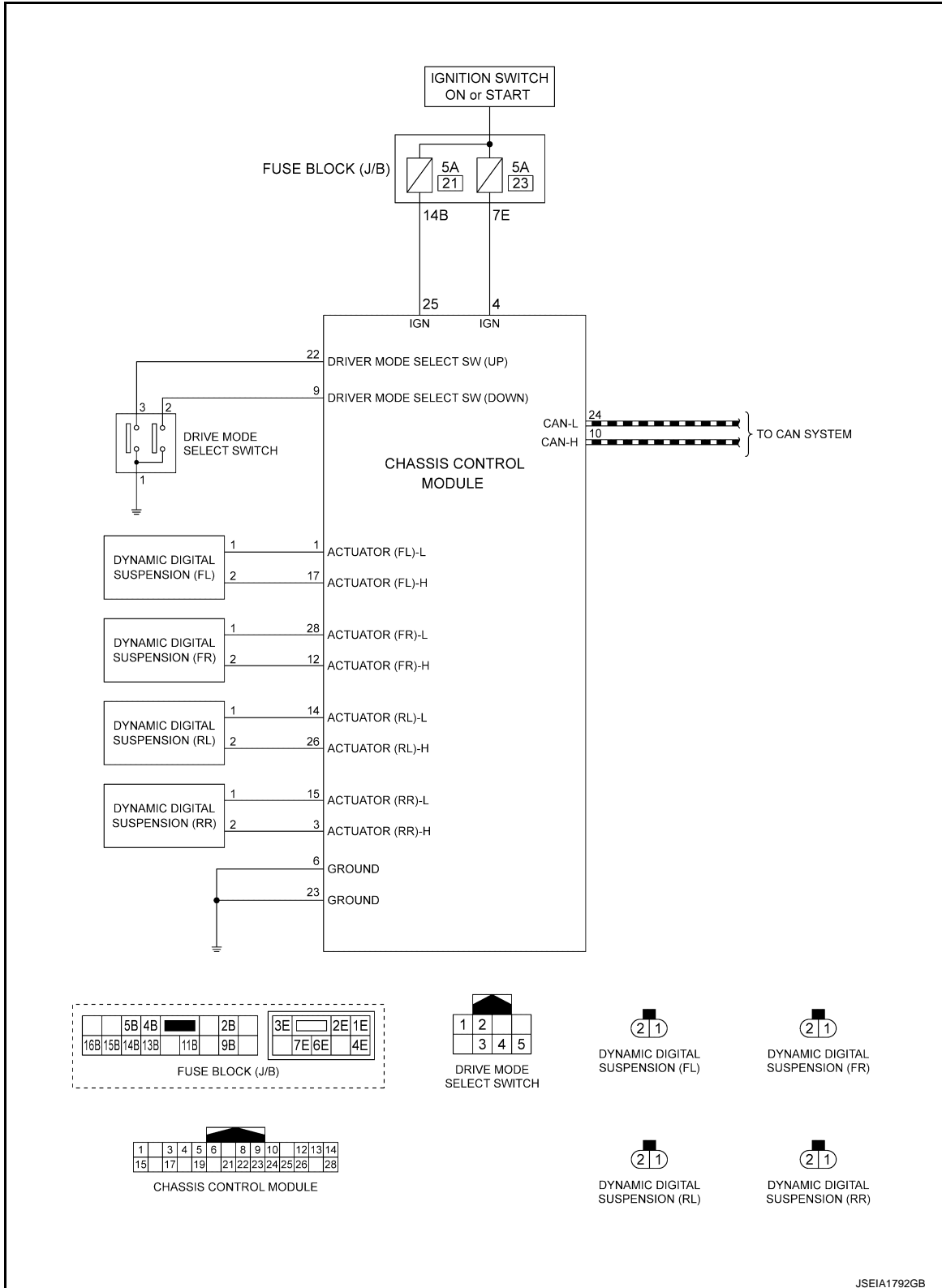
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- Optimum damping force: Only when a body is moving, the damping force is produced to keep the movement of the body.
- Minimum exciting force: Damping force does not act for a change in road surface and does not effect for the body through damper.

Circuit Diagram

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SYSTEM

< SYSTEM DESCRIPTION >

Fail-Safe (Chassis Control Module)

INFOID:000000013599758

When a malfunction occurs in the chassis control module, the master warning lamp turns ON and an interrupt is displayed on the information display of the combination meter.

| DTC | Vehicle condition | A |
|----------|---|---|
| C1B90-00 | The following functions are suspended. | B |
| C1B91-00 | <ul style="list-style-type: none"> • Active lane control function • LDW function • LDP function • Blind spot intervention function | C |
| C1B92-00 | The following functions are suspended. | D |
| C1B93-00 | The following functions are suspended. | F |
| C1B94-00 | <ul style="list-style-type: none"> • Active trace control function • LDW function • LDP function • Blind spot intervention function | G |
| C1B96-00 | The following functions are suspended. | H |
| C1B99-00 | The following functions are suspended. | I |
| C1BA6-00 | The following functions are suspended. | J |
| C1BA7-00 | The following functions are suspended. | K |
| C1BA9-00 | The following functions are suspended. | L |
| C1BAA-00 | <ul style="list-style-type: none"> • LDW function • LDP function • Blind spot intervention function | M |
| C1BAB-00 | The following functions are suspended. | N |
| C1BAC-00 | The following functions are suspended. | O |
| C1BAD-00 | <ul style="list-style-type: none"> • LDP function • Blind spot intervention function | P |
| C1BAE-00 | | |
| C1BAF-00 | The following functions are suspended. | |
| C1BB0-06 | Normal control | |
| C1BB2-00 | The following functions are suspended. | |
| C1BB3-00 | <ul style="list-style-type: none"> • Active trace control function • Active lane control function • LDW function • LDP function • Blind spot intervention function • Infiniti InTuition function • Digital motion control function | |
| C1BB4-00 | | |
| C1BB5-00 | | |

SCS

SYSTEM

< SYSTEM DESCRIPTION >

| DTC | Vehicle condition |
|----------|---|
| C1BB6-00 | The following functions are suspended. <ul style="list-style-type: none"> • Digital motion control function |
| C1BB7-00 | The following functions are suspended. <ul style="list-style-type: none"> • Active trace control function • Active lane control function • LDW function • LDP function • Blind spot intervention function • Infiniti InTuition function • Digital motion control function |
| C1BB8-00 | |
| C1BB9-00 | |
| C1BBA-00 | |
| C1BBB-00 | |
| C1BBC-00 | Normal control |
| C1BBD-00 | The following functions are suspended. <ul style="list-style-type: none"> • Active trace control function • Active lane control function • LDW function • LDP function • Blind spot intervention function • Infiniti InTuition function • Digital motion control function |
| C1BBE-11 | The following functions are suspended. <ul style="list-style-type: none"> • Digital motion control function |
| C1BBE-12 | |
| C1BBE-19 | |
| C1BBE-1D | |
| C1BEE-39 | |
| C1BEE-64 | |
| C1BBF-11 | |
| C1BBF-12 | |
| C1BBF-19 | |
| C1BBF-1D | |
| C1BBF-39 | |
| C1BBF-64 | |
| C1BC0-00 | |
| C1BC1-00 | |
| C1BC7-11 | The following functions are suspended. <ul style="list-style-type: none"> • Digital motion control function |
| C1BC7-12 | |
| C1BC7-19 | |
| C1BC7-1D | |
| C1BC7-39 | |
| C1BC7-64 | |
| C1BC8-11 | |
| C1BC8-12 | |
| C1BC8-19 | |
| C1BC8-1D | |
| C1BC8-39 | |
| C1BC8-64 | |

SYSTEM

< SYSTEM DESCRIPTION >

| DTC | Vehicle condition | |
|----------|---|------------|
| U1000-00 | The following functions are suspended. | A |
| | <ul style="list-style-type: none"> • Active trace control function • Active lane control function • LDW function • LDP function • Blind spot intervention function | B |
| U1010-49 | The following functions are suspended. | C |
| | <ul style="list-style-type: none"> • Active trace control function • Active lane control function | |
| U1A31-00 | The following functions are suspended. | D |
| | <ul style="list-style-type: none"> • Active lane control function • LDW function • LDP function • Blind spot intervention function | SCS |
| U1A35-00 | The following functions are suspended. | F |
| | <ul style="list-style-type: none"> • Active trace control function • Active lane control function • LDW function • LDP function • Blind spot intervention function | |
| U1A3E-00 | Normal control | G |
| | | H |
| | | I |
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DIAGNOSIS SYSTEM (CHASSIS CONTROL MODULE)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (CHASSIS CONTROL MODULE)

CONSULT Function

INFOID:000000013599753

APPLICATION ITEM

CONSULT can display each diagnostic item using the diagnostic test modes as follows.

| Mode | Function description |
|-------------------------------|--|
| ECU identification | Parts number of chassis control module can be read. |
| Self Diagnostic Results | Self-diagnostic results and freeze frame data can be read and erased quickly.* ¹ |
| DATA MONITOR | Input/Output data in chassis control module can be read. |
| ACTIVE TEST | Send the drive signal from CONSULT to the actuator. The operation check can be performed. |
| Work Support | Components can be quickly and accurately adjusted. |
| Re/programming, Configuration | <ul style="list-style-type: none"> Read and save the vehicle specification (TYPE ID). Write the vehicle specification (TYPE ID) when replacing chassis control module. |

*¹: The following diagnosis information is erased by erasing.

- DTC
- Freeze frame data (FFD)

ECU IDENTIFICATION

Chassis control module part number can be read.

SELF DIAGNOSTIC RESULT

Refer to [SCS-36, "DTC Index"](#).

When "CRNT" is displayed on self-diagnosis result

- The system is presently malfunctioning.

When "PAST" is displayed on self-diagnosis result

- System malfunction in the past is detected, but the system is presently normal.

Freeze frame data (FFD)

When DTC is detected, a vehicle state shown below is recorded and displayed on CONSULT.

| Item name | Indication/Unit | Display item |
|---------------------------|-----------------|---|
| Odometer/Trip meter | km | Total mileage (Odometer value) of the moment a particular. |
| DTC LOCAL CODE | — | DTC code is displayed but not used. |
| CAN DIAG PERMIS CONDITION | Off / On | Displays CAN network diagnosis status. |
| BRAKE SWITCH 1 | Off / On | Displays brake pedal operating status. |
| BRAKE SWITCH 2 | Off / On | Displays brake pedal operating status. |
| ABS | NORMAL / ABNOR | Displays ABS function status. |
| TCS | NORMAL / ABNOR | Displays TCS function status. |
| VDC | NORMAL / ABNOR | Displays VDC function status. |
| VEHICLE SPEED | km | Displays the vehicle speed. |
| FR WHEEL SPEED | rpm | Displays the rotational speed of front RH tire. |
| FL WHEEL SPEED | rpm | Displays the rotational speed of front LH tire. |
| RR WHEEL SPEED | rpm | Displays the rotational speed of rear RH tire. |
| RL WHEEL SPEED | rpm | Displays the rotational speed of rear LH tire. |
| STEERING ANG SENSOR | deg | Displays the steering angle from the steering angle sensor. |
| SIDE G SENSOR | G | Displays the side G. |
| DECEL G SENSOR | G | Displays the decel G. |
| YAW RATE SENSOR | deg/s | Displays the yaw rate. |
| THRTL OPENING | % | Displays the electric throttle position. |

DIAGNOSIS SYSTEM (CHASSIS CONTROL MODULE)

< SYSTEM DESCRIPTION >

| Item name | Indication/Unit | Display item | |
|--|--|---|---|
| SHIFT POSITION | Off / P / R / N / D (A) / S / L / B / 1 – 6 / M 1 – M 8 / A 1 – A 6 | Displays the shift position. | A |
| PRESS SENSOR | bar | Displays the brake fluid pressure. | B |
| DRIVE MODE SELECTOR | STD / SPORT / ECO / SNOW / PERSO | Displays the drive mode select switch selection status. | C |
| LANE MARKER (LH) ^{*1} | NOT / DETECT | Displays the lane marker (LH) detection status. | D |
| LANE MARKER (RH) ^{*1} | NOT / DETECT | Displays the lane marker (RH) detection status. | D |
| TURN SIGNAL (LH) ^{*1} | Off / On | Displays the turn signal switch (LH) operating status. | D |
| TURN SIGNAL (RH) ^{*1} | Off / On | Displays the turn signal switch (RH) operating status. | D |
| TURN SIGNAL SWITCH ^{*1} | Off / LEFT / RIGHT / MALF | Displays the turn signal switch operating status. | D |
| DAST ^{*1} | Off / On | Displays the operation request status to Direct Adaptive Steering. | F |
| ROAD DISTORTION ^{*1} | 1/m | Displays the road distortion rate radius. | F |
| ALC COMMAND ST ANG ^{*1} | rad | Displays the steering command value to Direct Adaptive Steering. | G |
| ST WHL FORCE TORQUE ^{*1} | Nm | Displays the estimated value for the steering wheel force torque. | G |
| ALC COMMAND ST WHL FORCE ^{*1} | N | Displays the steering reaction force command value to Direct Adaptive Steering. | H |
| ADAS COND ^{*1} | NORMAL / ABNOR | Displays the ADAS control unit function status. | H |
| WIPER STATUS ^{*1} | Off / LOW / HIGH / MALF | Displays the wiper operating status. | I |
| DDS operating condition ^{*2} | Off / On | Displays the dynamic digital suspension condition. | I |
| Engine rpm ^{*2} | rpm | Displays the engine speed. | J |
| DMC) CAN signal not receive ^{*2} | Non detection / De- tection | Displays the CAN signal not receive of digital motion control. | J |
| DMC) CAN signal irregularity 1 ^{*2} | Non detection / De- tection | Displays the CAN signal irregularity (message counter) of digital motion control. | K |
| DMC) CAN signal irregularity 2 ^{*2} | Non detection / De- tection | Displays the CAN signal irregularity (checksum) of digital motion control. | K |
| DMC) CAN signal invalid ^{*2} | Non detection / De- tection | Displays the CAN signal invalid of digital motion control. | L |
| Stop/Start ^{*2} | A | Displays the Stop/Start status. | M |
| FR shock ab command current ^{*2} | A | Displays the dynamic digital suspension (FR) command current. | M |
| FL shock ab command current ^{*2} | A | Displays the dynamic digital suspension (FL) command current. | N |
| RR shock ab command current ^{*2} | A | Displays the dynamic digital suspension (RR) command current. | N |
| RL shock ab command current ^{*2} | A | Displays the dynamic digital suspension (RL) command current. | O |
| DMC status ^{*2} | Inactive / Active 1 / Active 2 / Active 3 / Active 4 /Not connect current line / Active test 1 /Active test 2 / Other control unit / CAN communication / Control unit | Displays the digital motion control status. | P |

*1: Models with Active Lane Control

*2: Models with Digital motion control

DIAGNOSIS SYSTEM (CHASSIS CONTROL MODULE)

< SYSTEM DESCRIPTION >

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

| Item [Unit] | Description |
|---|---|
| IGN VOLT [V] | Displays the ignition power supply voltage. |
| CONTROL MODULE MALF [Off / On] | Displays chassis control module malfunction. |
| CAN DIAG STATUS [Off / On] | Displays CAN network diagnosis status. |
| STP LAMP OFF RELAY 1 [Off / On] | Displayed but not used. |
| STP LAMP OFF RELAY 2 [Off / On] | Displayed but not used. |
| ESS RELAY [Off / On] | Displayed but not used. |
| VEHICLE SPEED [km/m] | Displays the vehicle speed. |
| FR WHEEL SPEED [rpm] | Displays the rotational speed of front RH tire. |
| FL WHEEL SPEED [rpm] | Displays the rotational speed of front LH tire. |
| RR WHEEL SPEED [rpm] | Displays the rotational speed of rear RH tire. |
| RL WHEEL SPEED [rpm] | Displays the rotational speed of rear LH tire. |
| STEERING ANG SENSOR [deg] | Displays the steering angle from the steering angle sensor. |
| DECEL G SENSOR [G] | Displays the decel G. |
| SIDE G SENSOR [G] | Displays the side G. |
| YAW RATE SENSOR [deg/s] | Displays the yaw rate. |
| ACCELE PEDAL POSITION [%] | Displays the accelerator pedal position. |
| THROTTLE CONTROL [NORMAL / INCORR / PREV / INPOSS] | Displays the electric throttle status. |
| SHIFT POSITION [Off / P / R / N / D (A) / S / L / B / 1-6 / M 1 -M 8 / A 1 - A 6] | Displays the shift position. |
| BRAKE SWITCH 2 [Off / On] | Displays brake pedal operating status. |
| BRAKE SWITCH 1 [Off / On] | Displays brake pedal operating status. |
| PRESS SENSOR [bar] | Displays the brake fluid pressure. |
| ABS [NORMAL / ABNOR] | Displays ABS function status. |
| ABS MALF [NORMAL / ABNOR] | Displays ABS function status. |
| EBD [NORMAL / ABNOR] | Displays EBD function status. |
| TCS [NORMAL / ABNOR] | Displays TCS function status. |
| TCS MALF [NORMAL / ABNOR] | Displays TCS function status. |
| VDC [NORMAL / ABNOR] | Displays VDC function status. |
| VDC MALF [NORMAL / ABNOR] | Displays VDC function status. |
| VDC OFF SWITCH [Off / On] | Displays VDC OFF switch status. |
| PARKING BRAKE [Off / On] | Displays the parking brake operating status. |
| ACCELE PEDAL MALF [NORMAL / ABNOR] | Displays the accelerator pedal status. |
| DRV TRQ CTRL MODE [INITIAL / NORMAL / STOP 1 / STOP 2 / LIMIT 1 / PROHIB] | Displays the status of correction to slightly increase/decrease the drive torque. |
| DRV TRQ CTRL PERMIS 1 [NO PER / PERMIS] | Displays the permission status (basic requirement) of correction to slightly increase/decrease drive torque. |
| DRV TRQ CTRL PERMIS 2 [NO PER / PERMIS] | Displays the permission status (system requirement) of correction to slightly increase/decrease drive torque. |
| DRV TRQ CTRL STOP [REQ / NO REQ] | Displays the stop request status of correction to slightly increase/decrease drive torque. |

DIAGNOSIS SYSTEM (CHASSIS CONTROL MODULE)

< SYSTEM DESCRIPTION >

| Item [Unit] | Description |
|---|--|
| DRV TRQ CTRL PROHIBIT [REQ / NO REQ] | Displays the prohibition request status of correction to slightly increase/decrease drive torque. |
| DRIVE MODE SELECTOR [STD / SPORT / SNOW / ECO / SPORT+ / PERSO / NOT / NOT SET] | Displays the drive mode select switch selection status. |
| LOG-IN PERMIS [NO PER / PERMIS] | Displays the login authority status of Infiniti InTuition function. |
| I-KEY LINK [Off / On] | Displays the Intelligent Key linking status of Infiniti InTuition function. |
| USER [USER A / USER B / USER C / GUEST] | Displays the current user status of Infiniti InTuition function. |
| ENGINE/TM SETTING [SPORT / STD / ECO / SNOW] | Displays the engine/transmission setting status with Infiniti drive mode selector function. |
| ALC SETTING [Off / LOW / HIGH] | Displays Active Lane Control setting status with Infiniti drive mode selector function. |
| ATC SETTING [Off / On] | Displays active trace control function setting status with Infiniti drive mode selector function. |
| COMBI METER [STD / SPORT / SNOW / ECO / PERSO] | Displays the combination meter function setting status with Infiniti drive mode selector function. |
| ATC 1 [Off / On] | Displays active trace control function operating status. |
| ATC 2 [Off / On] | Displays active trace control function operating status. |
| ATC 4 [Off / On] | Displays active trace control function operating status. |
| FL TIRE DISP [DEF / 1] | Displays the status of front LH tire displayed on the information display in the combination meter. |
| FR TIRE DISP [DEF / 1] | Displays the status of front RH tire displayed on the information display in the combination meter. |
| RL TIRE DISP [DEF / 1] | Displays the status of rear LH tire displayed on the information display in the combination meter. |
| RR TIRE DISP [DEF / 1] | Displays the status of rear RH tire displayed on the information display in the combination meter. |
| TURN DISP [N STEER / LEFT / RIGHT] | Displays the turning direction of active trace control function on the information display in the combination meter. |
| ALC LEVEL [0 – 4] | Displays active/inactive status of Active Lane Control. |
| ALC STATUS [INACT / ACT] | Display Active Lane Control operating status. |
| ATC DISP [Off / On] | Displays the operating status of active trace control function on the information display in the combination meter. |
| ALC DISP [Off / On] | Displays the operating status of Active Lane Control on the information display in the combination meter. |
| ALC SYSTEM [Off / On] | Display Active Lane Control activation status. |
| LANE MARKER (LH) [NOT / DETECT] | Displays the lane marker (LH) detection status. |
| LANE MARKER (RH) [NOT / DETECT] | Displays the lane marker (RH) detection status. |
| TURN SIGNAL (LH) [Off / On] | Displays the turn signal switch (LH) operating status. |
| TURN SIGNAL (RH) [Off / On] | Displays the turn signal switch (RH) operating status. |
| TURN SIGNAL SWITCH [Off / LEFT / RIGHT / MALF] | Displays the turn signal switch operating status. |
| DAST [Off / On] | Displays Direct Adaptive Steering operating status. |
| ROAD DISTORTION [1/m] | Displays the road curvature. |
| COMMAND ST ANG [rad] | Displays the steering command value to Direct Adaptive Steering. |
| ST PINION ANG [rad] | Displays the steering pinion angle. |
| ST WHL FORCE TORQUE [Nm] | Displays the steering wheel force torque. |
| COMMAND ST WHL FORCE [N] | Displays the reaction force command value to Direct Adaptive Steering. |

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DIAGNOSIS SYSTEM (CHASSIS CONTROL MODULE)

< SYSTEM DESCRIPTION >

| Item [Unit] | Description |
|---------------------------|---|
| LDW DISP | [On / MALF] Displays LDW status received from ADAS control unit. |
| LDP DISP | [On / MALF] Displays LDP status received from ADAS control unit. |
| BSI DISP | [On / MALF] Displays Blind spot intervention function status received from ADAS control unit. |
| ST SWITCH COND | [OK / NG 1 / NG 2] Displays the steering switch status received from ADAS control unit. |
| BSW COND | [NORMAL / ABNOR] Displays BSW status received from ADAS control unit. |
| ADAS COND | [NORMAL / ABNOR] Displays ADAS status received from ADAS control unit. |
| COLLISION WARN | [Off / On] Displays collision warning status received from ADAS control unit. |
| ICC ACTIVE | [Off / On] Displays ICC operating status received from ADAS control unit. |
| IBA ACTIVE | [Off / On] Displays intelligent brake assist operating status received from ADAS control unit. |
| DR BUZZER STATUS | [NO / 1 / 2 / 3 / 1, 2 / 2, 3 / 1, 3 / 4] Displayed but not used. |
| LDW COND | [On / MALF] Displays LDW status transmitted to ADAS control unit. |
| LDP COND | [On / MALF] Displays LDP status transmitted to ADAS control unit. |
| BSI COND | [On / MALF] Displays blind spot intervention function status transmitted to ADAS control unit. |
| LDP BRAKE CANCEL | [NONE / SLIP / SNOW / VDC OF] Displays LDP cancel cause transmitted to ADAS control unit. |
| BSI BRAKE CANCEL | [NONE / SLIP / SNOW / VDC OF] Displays blind spot intervention function cancel cause transmitted to ADAS control unit. |
| CAMERA COND | [NORMAL / ABNOR] Displays the lane camera unit status. |
| CAMERA TEMP COND | [NORMAL / ABNOR] Displays the lane camera unit status by temperature. |
| CAMERA COMM COND | [NORMAL / ABNOR] Displays the communication status with the lane camera unit status. |
| CAMERA AIMING | [INCOMP / COMP] Displays the lane camera unit aiming status. |
| CAMERA HIGH TEMP (LDW) | [NORMAL / ABNOR] Displays the lane camera unit system cancel request due to high temperature (LDW). |
| CAMERA HIGH TEMP (LDP) | [NORMAL / ABNOR] Displays the lane camera unit system cancel request due to high temperature (LDP) |
| CAMERA HIGH TEMP (BSI) | [NORMAL / ABNOR] Displays the lane camera unit system cancel request due to high temperature (Blind spot intervention) |
| SIDE RADAR BLOCK CANCEL | [NORMAL / BLOCK] Displays the side radar status. |
| BSI LAMP REQ (LH) | [Off / On] Displays blind spot intervention indicator blink request at blind spot intervention operation (LH). |
| BSI LAMP REQ (RH) | [Off / On] Displays blind spot intervention indicator blink request at blind spot intervention operation (RH). |
| LANE DEPARTURE DISP (LH) | [NO DISP / DEVIAT] Displays the deviating status on the LH side lane. |
| LANE DEPARTURE DISP (RH) | [NO DISP / DEVIAT] Displays the deviating status on the RH side lane. |
| LDP/BSI ACTIVE | [Off / On] Displays LDP/blind spot intervention function operation status. |
| ADAS COND | [NORMAL / ABNOR] Displayed, but not used |
| DR BUZZER COND | [NORMAL / ABNOR] Displayed, but not used |
| OUTSIDE TEMP | [°C] Displays the ambient temperature. |
| WIPER STATUS | [Off / LOW / HIGH / MALF] Displays the front wiper operating status. |
| Engine rpm | [rpm] Displays the engine speed. |
| FR shock ab drive current | [A] Displays the dynamic digital suspension (FR) drive current. |
| FL shock ab drive current | [A] Displays the dynamic digital suspension (FL) drive current. |

DIAGNOSIS SYSTEM (CHASSIS CONTROL MODULE)

< SYSTEM DESCRIPTION >

| Item [Unit] | Description |
|-------------------------------------|---|
| RR shock ab drive current [A] | Displays the dynamic digital suspension (RR) drive current. |
| RL shock ab drive current [A] | Displays the dynamic digital suspension (RL) drive current. |
| Shock absorber control 1 [Off / On] | Displays the dynamic digital suspension control condition. |
| Shock absorber control 2 [Off / On] | Displays the dynamic digital suspension control condition. |
| Shock absorber control 3 [Off / On] | Displays the dynamic digital suspension control condition. |
| FR shock ab command current [A] | Displays the dynamic digital suspension (FR) command current. |
| FL shock ab command current [A] | Displays the dynamic digital suspension (FL) command current. |
| RR shock ab command current [A] | Displays the dynamic digital suspension (RR) command current. |
| RL shock ab command current [A] | Displays the dynamic digital suspension (RL) command current. |

ACTIVE TEST

The active test is used to determine and identify details of a malfunction, based on self-diagnosis test results and data obtained in the DATA MONITOR. In response to instructions from CONSULT, instead of those from chassis control module on the vehicle, a drive signal is sent to the actuator to check its operation.

CAUTION:

- **Never perform ACTIVE TEST while driving the vehicle.**
- **Always bleed air from brake system before active test.**
- **Never perform active test when system is malfunctioning.**

NOTE:

- When active test is performed while depressing the brake pedal, the brake pedal depressing stroke may change. This is not a malfunction.
- During an active test, sometimes a chassis control warning is displayed and the master warning lamp illuminates on the information display in the combination meter; however, this is not a malfunction.

| Test item | Operation | Description |
|-------------------------|-----------|--|
| BRAKE ACTUATOR 1 MODE 1 | Start | Controls brake fluid pressure. |
| BRAKE ACTUATOR 1 MODE 2 | Start | Controls brake fluid pressure. |
| BRAKE ACTUATOR 1 MODE 3 | Start | Controls brake fluid pressure. |
| BRAKE ACTUATOR 2 MODE 1 | Start | Controls brake fluid pressure. |
| BRAKE ACTUATOR 2 MODE 2 | Start | Controls brake fluid pressure. |
| BRAKE ACTUATOR 2 MODE 3 | Start | Controls brake fluid pressure. |
| BRAKE ACTUATOR 3 MODE 1 | Start | Controls brake fluid pressure. |
| BRAKE ACTUATOR 3 MODE 2 | Start | Controls brake fluid pressure. |
| BRAKE ACTUATOR 3 MODE 3 | Start | Controls brake fluid pressure. |
| COMMAND STEERING ANGLE | Start | Transmits the steering command value 0 deg → 0.00349 deg (hold it for approximately 2 seconds) → 0 deg (hold it for approximately 2 seconds) → 0.00349 deg (hold it for approximately 2 seconds) → 0 deg to the steering force control module. |
| COMMAND ST WHL FORCE | Start | Transmits the steering reaction force command value 0 N → 0.6 N (hold it for approximately 2 seconds) → 0 N (hold it for approximately 2 seconds) → 0.6 N (hold it for approximately 2 seconds) → 0 N to the steering force control module. |
| MASTER WARNING ACTIVE | On | If touching "On" with the master warning lamp not illuminated, the master warning lamp illuminates. Stops in approximately 1 minute. |
| | Off | The master warning lamp turns OFF. (vehicle in normal state) |
| ALC DISP | On | Displays Active Lane Control active status on the information display in the combination meter. |
| | Off | Displays Active Lane Control inactive status on the information display in the combination meter. |

DIAGNOSIS SYSTEM (CHASSIS CONTROL MODULE)

< SYSTEM DESCRIPTION >

| Test item | Operation | Description |
|--------------------|-----------|---|
| FL TIRE DISP | On | Displays the front LH tire on the information display in the combination meter. |
| | Off | Does not display the front LH tire on the information display in the combination meter. |
| FR TIRE DISP | On | Displays the front RH tire on the information display in the combination meter. |
| | Off | Does not display the front RH tire on the information display in the combination meter. |
| RL TIRE DISP | On | Displays the rear LH tire on the information display in the combination meter. |
| | Off | Does not display the rear LH tire on the information display in the combination meter. |
| RR TIRE DISP | On | Displays the rear RH tire on the information display in the combination meter. |
| | Off | Does not display the rear RH tire on the information display in the combination meter. |
| TURN DISP | NO DISP | Does not display the turning status on the information display in the combination meter. |
| | LH | Displays the LH turning status on the information display in the combination meter. |
| | RH | Displays the RH turning status on the information display in the combination meter. |
| ALC LEVEL | LEVEL 1 | Displays Active Lane Control corresponding to the selected level on the information display in the combination meter. |
| | LEVEL 2 | |
| | LEVEL 3 | |
| | LEVEL 4 | |
| ALC SETTING | On | Displays Active Lane Control active status on the information display in the combination meter. |
| | Off | Displays Active Lane Control inactive status on the information display in the combination meter. |
| ATC 1 DISP | On | Displays active trace control function active status on the information display in the combination meter. |
| | Off | Displays active trace control function inactive status on the information display in the combination meter. |
| ATC 2 DISP | On | Displays active trace control function active status on the information display in the combination meter. |
| | Off | Displays active trace control function inactive status on the information display in the combination meter. |
| ATC 4 DISP | On | Displays active trace control function active status on the information display in the combination meter. |
| | Off | Displays active trace control function inactive status on the information display in the combination meter. |
| FR shock absorber* | Soft | Controls dynamic digital suspension (FR). |
| | Medium | |
| | Hard | |
| FL shock absorber* | Soft | Controls dynamic digital suspension (FL). |
| | Medium | |
| | Hard | |

DIAGNOSIS SYSTEM (CHASSIS CONTROL MODULE)

< SYSTEM DESCRIPTION >

| Test item | Operation | Description |
|---------------------|-----------|---|
| RR shock absorber* | Soft | Controls dynamic digital suspension (RR). |
| | Medium | |
| | Hard | |
| RL shock absorber* | Soft | Controls dynamic digital suspension (RL). |
| | Medium | |
| | Hard | |
| All shock absorber* | Soft | Controls all dynamic digital suspension. |
| | Medium | |
| | Hard | |

*: Models with digital motion control

WORK SUPPORT

| Work support items | Description |
|-------------------------------|--|
| ERASE LAST DRIVER INFORMATION | Erases the information for the previous driver. |
| ERASE KEY ALLOTMENT USER | Erases all user information. |
| ERASE PERSONAL SETTINGS | Erases all user information (personal settings only). |
| CAUSE OF AUTO-CANCEL 1 | Displays causes of automatic system cancellation occurred during control of the following systems <ul style="list-style-type: none"> • Lane Departure Prevention (LDP) • Blind Spot Intervention |

NOTE:

- Causes of the maximum five cancellations (system cancel) are displayed.
- The displayed cancellation causes display the number of the ignition switch ON/OFF up to 254. It is fixed to 254 if it is over 254. It returns to 0 when the same cancellation cause is detected again.

Display Items for The Cause of Automatic Cancellation 1

| Cause of cancellation | Lane departure prevention | Blind spot intervention | Description |
|-----------------------|---------------------------|-------------------------|--|
| OPE VDC/TCS/ABS 1 | × | | The activation of VDC, TCS, or ABS during LDP system control |
| Vehicle dynamics | × | | Vehicle behavior exceeds specified value |
| Steering speed | × | | Steering speed was more than the specified value in evasive direction |
| End by yaw angle | × | | Yaw angle was the end of LDP control |
| Departure yaw large | × | | Detected more than the specified value of yaw angle in departure direction |
| ICC WARNING | × | | Target approach warning of ICC system, IBA system, or FCW system was activated |
| CURVATURE | × | | Road curve was more than the specified value |
| Steering angle large | × | | Steering angle was more than the specified value |
| Brake is operated | × | | Brake pedal was operated |
| IGN LOW VOLT | × | | Decrease in ADAS control unit IGN voltage |
| Lateral offset | × | | Distance of vehicle and lane was detached in lateral direction more than the specified value |
| Lane marker lost | × | | Lane camera unit lost the trace of lane marker |
| Lane marker unclear | × | | Detected lane marker was unclear |

DIAGNOSIS SYSTEM (CHASSIS CONTROL MODULE)

< SYSTEM DESCRIPTION >

| Cause of cancellation | Lane departure prevention | Blind spot intervention | Description |
|---------------------------|---------------------------|-------------------------|---|
| Yaw acceleration | × | | Detected yawing speed was more than the specified value |
| Deceleration large | × | | Deceleration in a longitudinal direction was more than the specified value |
| Accel is operated | × | | Accelerator pedal was depressed |
| Departure steering | × | | Steering wheel was steered more than the specified value in departure direction |
| Evasive steering | × | | Steering wheel was steered more than the specified value in the evasive direction |
| R range | × | | Selector lever was operated to R range |
| Parking brake drift | × | | Rear wheels lock was detected |
| Not operating condition | × | | Did not meet the operating condition (vehicle speed, turn signal operation, etc.) |
| SNOW MODE SW | × | | Shifting of the drive mode selector to SNOW position |
| VDC OFF SW | × | | VDC OFF switch was pressed |
| OPE VDC/ABS 2 | × | | The activation of VDC or ABS during a standby time of LDP or blind spot intervention system control |
| BSI) OPE VDC/TCS/ABS 1 | | × | The activation of VDC, TCS, or ABS during blind spot intervention system control |
| BSI) Vehicle dynamics | | × | Vehicle behavior exceeds specified value |
| BSI) Steering speed | | × | Steering speed was more than the specified value in evasive direction |
| BSI) End by yaw angle | | × | Yaw angle was the end of blind spot intervention control |
| BSI) Departure yaw large | | × | Detected more than the specified value of yaw angle in departure direction |
| BSI) ICC WARNING | | × | Target approach warning of ICC system, FEB system or FCW system was activated |
| BSI) CURVATURE | | × | Road curve was more than the specified value |
| BSI) Steering angle large | | × | Steering angle was more than the specified value |
| BSI) Brake is operated | | × | Brake pedal was operated |
| BSI) IGN LOW VOLT | | × | Decrease in chassis control module IGN voltage |
| BSI) Lateral offset | | × | Distance of vehicle and lane was detached in lateral direction more than the specified |
| BSI) Lane marker lost | | × | Lane camera unit lost the trace of lane marker |
| BSI) Lane marker unclear | | × | Detected lane marker was unclear |
| BSI) Yaw acceleration | | × | Detected yawing speed was more than the specified value |
| BSI) Deceleration large | | × | Deceleration in a longitudinal direction was more than the specified value |
| BSI) Accel is operated | | × | Accelerator pedal was depressed |
| BSI) Departure steering | | × | Steering wheel was steered more than the specified value in departure direction |
| BSI) Evasive steering | | × | Steering wheel was steered more than the specified value in the evasive direction |
| BSI) R range | | × | Selector lever was operated to R range |
| BSI) Parking brake drift | | × | Rear wheels lock was detected |
| BSI) SNOW MODE SW | | × | Shifting of the drive mode selector to SNOW position |
| BSI) VDC OFF SW | | × | VDC OFF switch was pressed |
| BSI) OPE VDC/ABS 2 | | × | The activation of VDC or ABS during a standby time of blind spot intervention system control |

DIAGNOSIS SYSTEM (CHASSIS CONTROL MODULE)

< SYSTEM DESCRIPTION >

| Cause of cancellation | Lane departure prevention | Blind spot intervention | Description |
|------------------------------|---------------------------|-------------------------|---|
| BSI) Not operating condition | | × | Did not meet the operating condition (vehicle speed, turn signal operation, etc.) |
| Side Radar Lost | | × | Unrecognized side radar LH or RH by the ADAS control unit |
| NO RECORD | × | × | — |

RE/PROGRAMMING, CONFIGURATION

Configuration includes the following functions.

| Function | Description |
|--------------------------|--|
| Read/Write Configuration | Before replacing ECU Allows the reading of vehicle specification (Type ID) written in chassis control module to store the specification in CONSULT. |
| | After replacing ECU Allows the writing of vehicle information (Type ID) stored in CONSULT into the chassis control module. |
| Manual Configuration | Allows the writing of vehicle specification (Type ID) into the chassis control module by hand. |

CAUTION:

Use “Manual Configuration” only when “TYPE ID” of chassis control module cannot be read.

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CHASSIS CONTROL MODULE

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

CHASSIS CONTROL MODULE

Reference Value

INFOID:0000000013599754

CONSULT DATA MONITOR STANDARD VALUE

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

| Monitor item | Condition | Reference values in normal operation |
|----------------------|---|--|
| IGN VOLT | Ignition switch ON | 10 – 16 V |
| CONTROL MODULE MALF | When chassis control module is normal | Off |
| | When chassis control module malfunction is detected | On |
| CAN DIAG STATUS | When diagnosis of CAN communication malfunction is detected | Off |
| | When diagnosis of CAN communication is normal | On |
| STP LAMP OFF RELAY 1 | Displayed but not used. | — |
| STP LAMP OFF RELAY 2 | Displayed but not used. | — |
| ESS RELAY | Displayed but not used. | — |
| VEHICLE SPEED | Vehicle Stopped | 0 km/h (0 MPH) |
| | Driving* | Almost same reading as speedometer (within ±10%) |
| FR WHEEL SPEED | Vehicle stopped | 0 rpm |
| | Driving* | Increases according to vehicle speed |
| FL WHEEL SPEED | Vehicle stopped | 0 rpm |
| | Driving* | Increases according to vehicle speed |
| RR WHEEL SPEED | Vehicle stopped | 0 rpm |
| | Driving* | Increases according to vehicle speed |
| RL WHEEL SPEED | Vehicle stopped | 0 rpm |
| | Driving* | Increases according to vehicle speed |
| STEERING ANG SENSOR | When driving straight | 0±3.5 deg |
| | When steering wheel is steered to RH by 90° | Approx. +90 deg |
| | When steering wheel is steered to LH by 90° | Approx. -90 deg |
| DECEL G SENSOR | Vehicle stopped | Approx. 0 G |
| | When during acceleration | Positive value |
| | When during deceleration | Negative value |
| SIDE G SENSOR | Vehicle stopped | Approx. 0 G |
| | When right turn | Negative value |
| | When left turn | Positive value |
| YAW RATE SENSOR | Vehicle stopped | Approx. 0 deg/s |
| | When right turn | Negative value |
| | When left turn | Positive value |

CHASSIS CONTROL MODULE

< ECU DIAGNOSIS INFORMATION >

| Monitor item | Condition | Reference values in normal operation | |
|-----------------------|---|--|-----|
| ACCELE PEDAL POSITION | When accelerator pedal is released | 0% | A |
| | When accelerator pedal is depressed | 0 – 100% | |
| THROTTLE CONTROL | When electric throttle control actuator is normal | NORMAL | B |
| | When the electric throttle control actuator does not achieve the requirement (measured value is inaccurate) | INCORR | C |
| | When the electric throttle control actuator does not achieve the requirement (temporary prevention) | PREV | D |
| | When the electric throttle control actuator does not achieve the requirement (impossible) | INPOSSI | |
| SHIFT POSITION | Selector lever in any position | Indicates selected selector lever position | SCS |
| BRAKE SWITCH 2 | When brake pedal is not depressed | Off | |
| | When brake pedal is depressed | On | F |
| BRAKE SWITCH 1 | When brake pedal is not depressed | Off | |
| | When brake pedal is depressed | On | G |
| PRESS SENSOR | When brake pedal is not depressed | Approx. 0 bar | |
| | when brake pedal is depressed | 0 – 255 bar | H |
| ABS | When ABS function is normal | NORMAL | |
| | When ABS function malfunction is detected | ABNOR | I |
| ABS MALF | When ABS function is normal | NORMAL | |
| | When ABS function malfunction is detected | ABNOR | J |
| EBD | When EBD function is normal | NORMAL | |
| | When EBD function malfunction is detected | ABNOR | K |
| ACCELE PEDAL MALF | When accelerator pedal is normal | NORMAL | |
| | When accelerator pedal malfunction is detected | ABNOR | L |
| TCS | When TCS function is normal | NORMAL | |
| | When TCS function malfunction is detected | ABNOR | M |
| TCS MALF | When TCS function is normal | NORMAL | |
| | When TCS function malfunction is detected | ABNOR | N |
| VDC | When VDC function is normal | NORMAL | |
| | When VDC function malfunction is detected | ABNOR | O |
| VDC MALF | When VDC function is normal | NORMAL | |
| | When VDC function malfunction is detected | ABNOR | P |
| VDC OFF SWITCH | When VDC OFF switch is OFF | Off | |
| | When VDC OFF switch is ON | On | |
| PARKING BRAKE | When parking brake is inactive | Off | |
| | When parking brake is active | On | |

CHASSIS CONTROL MODULE

< ECU DIAGNOSIS INFORMATION >

| Monitor item | Condition | Reference values in normal operation |
|-----------------------|--|--------------------------------------|
| DRV TRQ CTRL MODE | When correction coefficients are initialized | INITIAL |
| | When correction is executed | NORMAL |
| | When correction is stopped (computing is impossible) | STOP 1 |
| | When correction is stopped (computing is possible) | STOP 2 |
| | When correction is limited | LIMIT 1 |
| | When correction is prohibited | PROHIBI |
| DRV TRQ CTRL PERMIS 1 | When correction is permitted (basic requirement) | PERMIS |
| | When correction is not permitted (basic requirement) | NO PER |
| DRV TRQ CTRL PERMIS 2 | When correction is permitted (system requirement) | PERMIS |
| | When correction is not permitted (system requirement) | NO PER |
| DRV TRQ CTRL STOP | When correction is requested to stop | REQ |
| | When correction is not requested to stop | NO REQ |
| DRV TRQ CTRL PROHIBIT | When prohibition of correction is requested | REQ |
| | When prohibition of correction is not requested | NO REQ |
| DRIVE MODE SELECTOR | When drive mode select switch is "STANDARD" mode | STD |
| | When drive mode select switch is "SPORT" mode | SPORT |
| | When drive mode select switch is "SNOW" mode | SNOW |
| | When drive mode select switch is "ECO" mode | ECO |
| | When drive mode select switch is "SPORT+" mode | SPORT+ |
| | When drive mode select switch is "PERSONAL" mode | PERSO |
| | When drive mode select switch is not use | NOT |
| | When drive mode select switch is not select | NOT SET |
| LOG-IN PERMIS | When log-in is possible | NO PER |
| | When log-in is not possible | PERMIS |
| I-KEY LINK | When Intelligent Key is not linked | Off |
| | When Intelligent Key is linked | On |
| USER | When logged in with "USER A" Intelligent Key | USER A |
| | When logged in with "USER B" Intelligent Key | USER B |
| | When logged in with "USER C" Intelligent Key | USER C |
| | When logged in with an Intelligent Key without user registration | GUEST |

CHASSIS CONTROL MODULE

< ECU DIAGNOSIS INFORMATION >

| Monitor item | Condition | Reference values in normal operation | |
|-------------------|---|--------------------------------------|-----|
| ENGINE/TM SETTING | When the engine/transmission setting with drive mode select switch is in "SPORT" mode | SPORT | A |
| | When the engine/transmission setting with drive mode select switch is in "STANDARD" mode | STD | B |
| | When the engine/transmission setting with drive mode select switch is in "ECO" mode | ECO | C |
| | When the engine/transmission setting with drive mode select switch is in "SNOW" mode | SNOW | |
| ALC SETTING | When Active Lane Control setting with drive mode select switch is "OFF" | Off | D |
| | When Active Lane Control setting with drive mode select switch is "LOW" | LOW | SCS |
| | When Active Lane Control setting with drive mode select switch is "HIGH" | HIGH | |
| ATC SETTING | When active trace control function setting with drive mode select switch is "OFF" | Off | F |
| | When active trace control function setting with drive mode select switch is "ON" | On | G |
| COMBI METER | When drive mode select switch is "STANDARD" mode | STD | H |
| | When drive mode select switch is "SNOW" mode | SNOW | I |
| | When drive mode select switch is "PERSONAL" mode | PERSO | J |
| | When drive mode select switch is "SPORT" mode | SPORT | |
| | When drive mode select switch is "ECO" mode | ECO | |
| ATC 1 | When active trace control function is inactive | Off | K |
| | When active trace control function is active | On | |
| ATC 2 | When active trace control function is inactive | Off | L |
| | When active trace control function is active | On | |
| ATC 4 | When active trace control function is inactive | Off | M |
| | When active trace control function is active | On | |
| FL TIRE DISP | When the front LH tire is not displayed on the information display in the combination meter | DEF | N |
| | When the front LH tire is displayed on the information display in the combination meter | 1 | O |
| FR TIRE DISP | When the front RH tire is not displayed on the information display in the combination meter | DEF | P |
| | When the front RH tire is displayed on the information display in the combination meter | 1 | |
| RL TIRE DISP | When the rear LH tire is not displayed on the information display in the combination meter | DEF | |
| | When the rear LH tire is displayed on the information display in the combination meter | 1 | |
| RR TIRE DISP | When the rear RH tire is not displayed on the information display in the combination meter | DEF | |
| | When the rear RH tire is displayed on the information display in the combination meter | 1 | |

CHASSIS CONTROL MODULE

< ECU DIAGNOSIS INFORMATION >

| Monitor item | Condition | Reference values in normal operation |
|--------------------|---|--------------------------------------|
| TURN DISP | When the straight-ahead status is displayed on the information display in the combination meter | N STEER |
| | When the left turning status is displayed on the information display in the combination meter | LEFT |
| | When the right turning status is displayed on the information display in the combination meter | RIGHT |
| ALC LEVEL | When Active Lane Control is turned ON. | 0 |
| | When Active Lane Control is operational or is operating. | 1 – 4 |
| ALC STATUS | When Active Lane Control is OFF | INACT |
| | When Active Lane Control is ON | ACT |
| ATC DISP | When the activation of active trace control function is not displayed on the information display in the combination meter | Off |
| | When the activation of active trace control function is displayed on the information display in the combination meter | On |
| ALC DISP | When the activation of Active Lane Control is not displayed on the information display in the combination meter | Off |
| | When the activation of Active Lane Control is displayed on the information display in the combination meter | On |
| ALC SYSTEM | When Active Lane Control is OFF | Off |
| | When Active Lane Control is ON | On |
| LANE MARKER (LH) | When left side lane marker is not detected. | NOT |
| | when left side lane marker is detected. | DETECT |
| LANE MARKER (RH) | When right side lane marker is not detected. | NOT |
| | When right side lane marker is detected. | DETECT |
| TURN SIGNAL (LH) | When turn signal lamps is OFF | Off |
| | When turn signal lamp LH is blinking | On |
| TURN SIGNAL (RH) | When turn signal lamps is OFF | Off |
| | When turn signal lamp RH is blinking | On |
| TURN SIGNAL SWITCH | When turn signal lamps is OFF | Off |
| | When turn signal lamp LH is blinking | LEFT |
| | When turn signal lamp RH is blinking | RIGHT |
| | When turn signal lamp system malfunction is detected. | MALF |
| DAST | When the Active Lane Control request to transmit to the steering force control module is OFF | Off |
| | When the Active Lane Control request to transmit to the steering force control module is ON | On |
| ROAD DISTORTION | Driving | Depends on the radius of curve |

CHASSIS CONTROL MODULE

< ECU DIAGNOSIS INFORMATION >

| Monitor item | Condition | Reference values in normal operation | |
|----------------------|--|--------------------------------------|-----|
| COMMAND ST ANG | When the Active Lane Control is inactive or when the Active Lane Control is active and the vehicle is driving straight around the center of the lane | Approx. 0 rad | A |
| | Active Lane Control is active with yaw angle formed on the left of the lane. | Max 0.05 rad | B |
| | Active Lane Control is active with yaw angle formed on the right of the lane. | Max -0.05 rad | C |
| ST PINION ANG | When driving straight | Approx. 0 rad | |
| | when steering wheel is steered to LH by 90° | Approx. -1.6 rad | D |
| | when steering wheel is steered to RH by 90° | Approx. 1.6 rad | |
| ST WHL FORCE TORQUE | When driving straight | 0 N·m | |
| | When steering wheel is steered | MAX ± 32 N·m | SCS |
| COMMAND ST WHL FORCE | When the Active Lane Control is inactive or when the Active Lane Control is active and the vehicle is driving straight around the center of the lane | 0 N·m | F |
| | When the Active Lane Control is active and the vehicle is drifting to the left end of the lane | Approx. -6 N | G |
| | When the Active Lane Control is active and the vehicle is drifting to the right end of the lane | Approx. 6 N | |
| LDW DISP | When LDW function is ON | On | H |
| | When LDW function malfunction is detected | MALF | |
| LDP DISP | When LDP function is ON | On | I |
| | When LDP function malfunction is detected | MALF | |
| BSI DISP | When blind spot intervention function is ON | On | J |
| | When blind spot intervention function malfunction is detected | MALF | |
| ST SWITCH COND | When steering switch is normal | OK | K |
| | ADAS control unit sends malfunction information of the steering switch to the chassis control module. (During the judgment of malfunction.) | NG 1 | L |
| | ADAS control unit sends malfunction information of the steering switch to the chassis control module. (Malfunction confirmed) | NG 2 | |
| BSW COND | When BSW function is normal | NORMAL | M |
| | When BSW function malfunction is detected | ABNOR | |
| ADAS COND | When ADAS control unit is normal | NORMAL | N |
| | When ADAS control malfunction is detected | ABNOR | |
| COLLISION WARN | When the collision warning is OFF | Off | O |
| | When the collision warning is ON | On | |
| ICC ACTIVE | When ICC function is inactive | Off | P |
| | When ICC function is active | On | |
| IBA ACTIVE | When forward emergency brake function is inactive | Off | |
| | When forward emergency brake function is active | On | |
| DR BUZZER STATUS | Displayed but not used | — | |
| LDW COND | When LDW function is ON | On | |
| | When LDW function malfunction is detected | MALF | |

CHASSIS CONTROL MODULE

< ECU DIAGNOSIS INFORMATION >

| Monitor item | Condition | Reference values in normal operation |
|-------------------------|--|--------------------------------------|
| LDP COND | When LDP function is ON | On |
| | When LDP function malfunction is detected | MALF |
| BSI COND | When blind spot intervention function is ON | On |
| | When blind spot intervention function malfunction is detected | MALF |
| LDP BRAKE CANCEL | When not cancel | NONE |
| | When slippery road | SLIP |
| | When drive mode select switch is "SNOW" mode | SNOW |
| | When VDC OFF switch is OFF | VDC OF |
| BSI BRAKE CANCEL | When not cancel | NONE |
| | When slippery road | SLIP |
| | When drive mode select switch is "SNOW" mode | SNOW |
| | When VDC OFF switch is OFF | VDC OF |
| CAMERA COND | When Lane camera unit is normal | NORMAL |
| | When Lane camera unit malfunction is detected. | ABNOR |
| CAMERA TEMP COND | When the temperature around lane camera unit is normal | NORMAL |
| | When the temperature around the lane camera unit is high | ABNOR |
| CAMERA COMM COND | When communication between chassis control module and lane camera unit is normal | NORMAL |
| | When communication between chassis control module and lane camera unit malfunction is detected | ABNOR |
| CAMERA AIMING | When lane camera aiming is completed | COMP |
| | When lane camera aiming is not completed | INCOMP |
| CAMERA HIGH TEMP (LDW) | When the temperature around lane camera unit is normal. (LDW ON) | NORMAL |
| | When the temperature around the lane camera unit is high. (LDW ON) | ABNOR |
| CAMERA HIGH TEMP (LDP) | When the temperature around lane camera unit is normal. (LDP ON) | NORMAL |
| | When the temperature around the lane camera unit is high. (LDP ON) | ABNOR |
| CAMERA HIGH TEMP (BSI) | When the temperature around lane camera unit is normal. (Blind spot intervention ON) | NORMAL |
| | When the temperature around the lane camera unit is high. (Blind spot intervention ON) | ABNOR |
| SIDE RADAR BLOCK CANCEL | When the side radar is normal | NORMAL |
| | Side radar is blocked and temporarily deactivated. | BLOCK |
| BSI LAMP REQ (LH) | When blind spot intervention function (LH) is inactive | Off |
| | When blind spot intervention function (LH) is active | On |

CHASSIS CONTROL MODULE

< ECU DIAGNOSIS INFORMATION >

| Monitor item | Condition | Reference values in normal operation | |
|---------------------------|---|--------------------------------------|-----|
| BSI LAMP REQ (RH) | When blind spot intervention function (RH) is inactive | Off | A |
| | When blind spot intervention function (RH) is active | On | B |
| LANE DEPARTURE DISP (LH) | When not deviating the LH side lane | NO DISP | C |
| | When deviating the LH side lane | DEVIAT | |
| LANE DEPARTURE DISP (RH) | When not deviating the RH side lane | NO DISP | D |
| | When deviating the RH side lane | DEVIAT | |
| LDP/BSI ACTIVE | When LDP function and blind spot intervention function are inactive | Off | SCS |
| | When LDP function or blind spot intervention function are active | On | |
| ADAS COND | When diagnosis of ADAS control unit is normal | NORMAL | F |
| | When diagnosis of ADAS control unit malfunction is detected | ABNOR | |
| DR BUZZER COND | When driver assistance buzzer is normal | NORMAL | G |
| | When driver assistance buzzer malfunction is detected | ABNOR | |
| OUTSIDE TEMP | Ignition switch ON | (-40°C) – (+72°C) | H |
| WIPER STATUS | When front wiper is inactive | Off | I |
| | When front wiper is active (low and intermittent) | LOW | |
| | When front wiper is active (high) | HIGH | |
| | When front wiper malfunction is detected | MALF | |
| Engine rpm | Engine stopped | 0 rpm | J |
| | Engine running | Almost same reading as tachometer | |
| FR shock ab drive current | When select the "Soft" in "FR shock absorber" of "ACTIVE TEST" | Approx. 0.38 A | K |
| | When select the "Medium" "FR shock absorber" in of "ACTIVE TEST" | Approx. 0.85 A | |
| | When select the "Hard" in "FR shock absorber" of "ACTIVE TEST" | Approx. 1.15 A | |
| FL shock ab drive current | When select the "Soft" in "FL shock absorber" of "ACTIVE TEST" | Approx. 0.38 A | L |
| | When select the "Medium" in "FL shock absorber" of "ACTIVE TEST" | Approx. 0.85 A | |
| | When select the "Hard" in "FL shock absorber" of "ACTIVE TEST" | Approx. 1.15 A | |
| RR shock ab drive current | When select the "Soft" in "RR shock absorber" of "ACTIVE TEST" | Approx. 0.38 A | M |
| | When select the "Medium" in "RR shock absorber" of "ACTIVE TEST" | Approx. 0.85 A | |
| | When select the "Hard" in "RR shock absorber" of "ACTIVE TEST" | Approx. 1.15 A | |
| RL shock ab drive current | When select the "Soft" in "RL shock absorber" of "ACTIVE TEST" | Approx. 0.38 A | N |
| | When select the "Medium" in "RL shock absorber" of "ACTIVE TEST" | Approx. 0.85 A | |
| | When select the "Hard" in "RL shock absorber" of "ACTIVE TEST" | Approx. 1.15 A | |
| RL shock ab drive current | When select the "Soft" in "RL shock absorber" of "ACTIVE TEST" | Approx. 0.38 A | O |
| | When select the "Medium" in "RL shock absorber" of "ACTIVE TEST" | Approx. 0.85 A | |
| | When select the "Hard" in "RL shock absorber" of "ACTIVE TEST" | Approx. 1.15 A | |
| RL shock ab drive current | When select the "Soft" in "RL shock absorber" of "ACTIVE TEST" | Approx. 0.38 A | P |
| | When select the "Medium" in "RL shock absorber" of "ACTIVE TEST" | Approx. 0.85 A | |
| | When select the "Hard" in "RL shock absorber" of "ACTIVE TEST" | Approx. 1.15 A | |

CHASSIS CONTROL MODULE

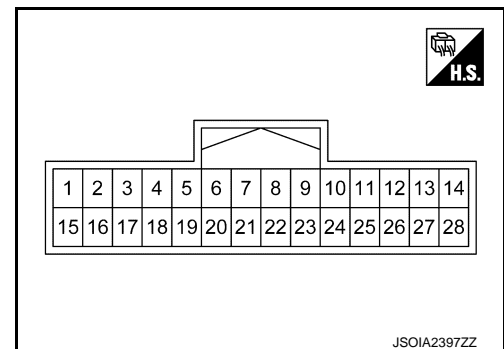
< ECU DIAGNOSIS INFORMATION >

| Monitor item | Condition | Reference values in normal operation |
|-----------------------------|--|--------------------------------------|
| Shock absorber control 1 | When vehicle estimation (control 1) is normal | Off |
| | When vehicle estimation (control 1) is canceled | On |
| Shock absorber control 2 | When vehicle estimation (control 2) is normal | Off |
| | When vehicle estimation (control 2) is canceled | On |
| Shock absorber control 3 | When vehicle estimation (control 3) is normal | Off |
| | When vehicle estimation (control 3) is canceled | On |
| FR shock ab command current | When select the "Soft" in "FR shock absorber" of "ACTIVE TEST" | Approx. 0.38 A |
| | When select the "Medium" in "FR shock absorber" of "ACTIVE TEST" | Approx. 0.85 A |
| | When select the "Hard" in "FR shock absorber" of "ACTIVE TEST" | Approx. 1.15 A |
| FL shock ab command current | When select the "Soft" in "FL shock absorber" of "ACTIVE TEST" | Approx. 0.38 A |
| | When select the "Medium" in "FL shock absorber" of "ACTIVE TEST" | Approx. 0.85 A |
| | When select the "Hard" in "FL shock absorber" of "ACTIVE TEST" | Approx. 1.15 A |
| RR shock ab command current | When select the "Soft" in "RR shock absorber" of "ACTIVE TEST" | Approx. 0.38 A |
| | When select the "Medium" in "RR shock absorber" of "ACTIVE TEST" | Approx. 0.85 A |
| | When select the "Hard" in "RR shock absorber" of "ACTIVE TEST" | Approx. 1.15 A |
| RL shock ab command current | When select the "Soft" in "RL shock absorber" of "ACTIVE TEST" | Approx. 0.38 A |
| | When select the "Medium" in "RL shock absorber" of "ACTIVE TEST" | Approx. 0.85 A |
| | When select the "Hard" in "RL shock absorber" of "ACTIVE TEST" | Approx. 1.15 A |

*: Check tire pressure under normal conditions.

TERMINAL LAYOUT

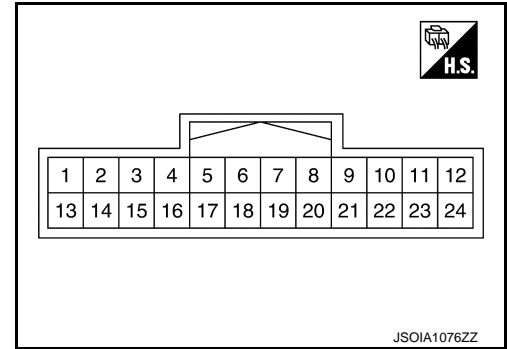
Models with Digital Motion Control



CHASSIS CONTROL MODULE

< ECU DIAGNOSIS INFORMATION >

Models without Digital Motion Control



PHYSICAL VALUES

Models with Digital Motion Control

A
B
C
D

SCS

| Terminal No. (Wire color) | | Description | | Condition | | Value (Approx.) |
|--|--------|---------------------------------|------------------|--------------------------|-------------------------------|--------------------|
| + | - | Signal name | Input/ Output | | | |
| 1 (LG) | — | ACTUATOR (FL)-L | — | — | — | — |
| 3 (BR) | — | ACTUATOR (RR)-H | — | — | — | — |
| 4 (BG) | Ground | IGNITION POWER SUPPLY | Input | Ignition switch ON | | 6.4 – 16 V |
| 5 (W) | Ground | CHASSIS COMM-L | — | — | — | — |
| 6 (B) | Ground | GROUND | — | Ignition switch ON | — | 0 V |
| 8 (BR) ^{*1} (L) ^{*1} | Ground | CHASSIS COMM-H | — | — | — | — |
| 9 (G) ^{*1} (Y) ^{*1} | Ground | DRIVE MODE SELECT SWITCH (DOWN) | Input | Ignition switch ON | Down switch is not pressed | 6.4 – 16 V |
| | | | | | Down switch is pressed | 0 V |
| 10 (L) | Ground | CAN-H | — | — | — | — |
| 12 (G) | — | ACTUATOR (FR)-H | — | — | — | — |
| 13 ^{*2} (G) | Ground | ESS RELAY | Output | Ignition switch ON | | 6.4 – 16 V |
| 14 (L) | — | ACTUATOR (RL)-L | — | — | — | — |
| 15 (Y) | — | ACTUATOR (RR)-L | — | — | — | — |
| 17 (V) | — | ACTUATOR (FL)-H | — | — | — | — |
| 19 (L) | Ground | CHASSIS COMM-H | — | — | — | — |
| 21 (W) | Ground | CHASSIS COMM-L | — | — | — | — |

F
G
H
I
J
K
L
M
N
O
P

CHASSIS CONTROL MODULE

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | | Value (Approx.) |
|--|--------|-------------------------------|------------------|--------------------------|--------------------------|--------------------|
| + | - | Signal name | Input/ Output | | | |
| 22 (V) | Ground | DRIVE MODE SELECT SWITCH (UP) | Input | Ignition switch ON | Up switch is not pressed | 6.4 – 16 V |
| | | | | | Up switch is pressed | 0 V |
| 23 (B) | Ground | GROUND | — | Ignition switch ON | — | 0 V |
| 24 (R) ^{*3} (P) ^{*4} | Ground | CAN-L | — | — | — | — |
| 25 (G) | Ground | IGNITION POWER SUPPLY | Input | Ignition switch ON | | 6.4 – 16 V |
| 26 (V) | — | ACTUATOR (RL)-H | — | — | — | — |
| 28 (R) | — | ACTUATOR (FR)-L | — | — | — | — |

*1: Color of wire differs depending on production.

*2: Although the harness is connected, it is not functioning.

*3: With Gateway

*4: Without Gateway

Models without Digital Motion Control

| Terminal No. (Wire color) | | Description | | Condition | | Value (Approx.) |
|--|--------|---------------------------------|------------------|--------------------------|-------------------------------|--------------------|
| + | - | Signal name | Input/ Output | | | |
| 3 (R) ^{*1} (P) ^{*2} | Ground | CAN-L | — | — | — | — |
| | | | | | — | — |
| 4 (L) | Ground | CAN-H | — | — | — | — |
| | | | | | — | — |
| 5 (V) ^{*3} (Y) ^{*4} | Ground | DRIVE MODE SELECT SWITCH (UP) | Input | Ignition switch ON | Up switch is not pressed | 6.4 – 16 V |
| | | | | | Up switch is pressed | 0 V |
| 6 (Y) ^{*3} (G) ^{*4} | Ground | DRIVE MODE SELECT SWITCH (DOWN) | Input | Ignition switch ON | Down switch is not pressed | 6.4 – 16 V |
| | | | | | Down switch is pressed | 0 V |
| 7 (W) | Ground | CHASSIS COMM-L | — | — | — | — |
| 8 (W) | Ground | CHASSIS COMM-L | — | — | — | — |
| 10 (G) ^{*3} (BG) ^{*4} | Ground | IGNITION POWER SUPPLY | Input | Ignition switch ON | | 6.4 – 16 V |
| 11 (L) | Ground | CHASSIS COMM-H | — | — | — | — |
| 12 (B) ^{*3} (B/W) ^{*4} | Ground | GROUND | — | Ignition switch ON | — | 0 V |

CHASSIS CONTROL MODULE

< ECU DIAGNOSIS INFORMATION >

| Terminal No. (Wire color) | | Description | | Condition | | Value (Approx.) |
|--|--------|----------------|------------------|--------------------|---|--------------------|
| + | - | Signal name | Input/ Output | | | |
| 19 (BR) ^{*3} (L) ^{*4} | Ground | CHASSIS COMM-H | — | — | — | — |
| 23 ^{*5} (G) ^{*3} (R) ^{*4} | Ground | ESS RELAY | Output | Ignition switch ON | | 6.4 – 16 V |

*1: With Gateway

*2: Without Gateway

*3: VR30DDTT engine models

*4: 2.0L turbo gasoline engine models

*5: Although the harness is connected, it is not functioning.

Fail-Safe (Chassis Control Module)

INFOID:0000000013599755

When a malfunction occurs in the chassis control module, the master warning lamp turns ON and an interrupt is displayed on the information display of the combination meter.

| DTC | Vehicle condition |
|----------|--|
| C1B90-00 | The following functions are suspended. <ul style="list-style-type: none"> • Active lane control function • LDW function • LDP function • Blind spot intervention function |
| C1B91-00 | |
| C1B92-00 | The following functions are suspended. <ul style="list-style-type: none"> • Active trace control function • Active lane control function • LDW function • LDP function • Blind spot intervention function |
| C1B93-00 | The following functions are suspended. <ul style="list-style-type: none"> • Active trace control function • LDW function • LDP function • Blind spot intervention function |
| C1B94-00 | |
| C1B96-00 | The following functions are suspended. <ul style="list-style-type: none"> • LDW function • LDP function • Blind spot intervention function • Intelligent cruise control function |
| C1B99-00 | The following functions are suspended. <ul style="list-style-type: none"> • Active trace control function • Active lane control function • LDW function • LDP function • Blind spot intervention function • Infiniti InTuition function • Digital motion control function |
| C1BA6-00 | The following functions are suspended. <ul style="list-style-type: none"> • Infiniti InTuition function |
| C1BA7-00 | The following functions are suspended. <ul style="list-style-type: none"> • Active lane control function |
| C1BA9-00 | The following functions are suspended. <ul style="list-style-type: none"> • LDW function • LDP function • Blind spot intervention function |
| C1BAA-00 | |

CHASSIS CONTROL MODULE

< ECU DIAGNOSIS INFORMATION >

| DTC | Vehicle condition |
|----------|---|
| C1BAB-00 | The following functions are suspended. • Active trace control function |
| C1BAC-00 | The following functions are suspended. • LDP function • Blind spot intervention function |
| C1BAD-00 | |
| C1BAE-00 | |
| C1BAF-00 | The following functions are suspended. • Blind spot intervention function |
| C1BB0-06 | Normal control |
| C1BB2-00 | The following functions are suspended. • Active trace control function • Active lane control function • LDW function • LDP function • Blind spot intervention function • Infiniti InTuition function • Digital motion control function |
| C1BB3-00 | |
| C1BB4-00 | |
| C1BB5-00 | |
| C1BB6-00 | The following functions are suspended. • Digital motion control function |
| C1BB7-00 | The following functions are suspended. • Active trace control function • Active lane control function • LDW function • LDP function • Blind spot intervention function • Infiniti InTuition function • Digital motion control function |
| C1BB8-00 | |
| C1BB9-00 | |
| C1BBA-00 | |
| C1BBB-00 | |
| C1BBC-00 | Normal control |
| C1BBD-00 | The following functions are suspended. • Active trace control function • Active lane control function • LDW function • LDP function • Blind spot intervention function • Infiniti InTuition function • Digital motion control function |
| C1BBE-11 | The following functions are suspended. • Digital motion control function |
| C1BBE-12 | |
| C1BBE-19 | |
| C1BBE-1D | |
| C1BEE-39 | |
| C1BEE-64 | |
| C1BBF-11 | |
| C1BBF-12 | |
| C1BBF-19 | |
| C1BBF-1D | |
| C1BBF-39 | |
| C1BBF-64 | |
| C1BC0-00 | |
| C1BC1-00 | |

CHASSIS CONTROL MODULE

< ECU DIAGNOSIS INFORMATION >

| DTC | Vehicle condition | |
|----------|---|-----|
| C1BC7-11 | The following functions are suspended. • Digital motion control function | A |
| C1BC7-12 | | |
| C1BC7-19 | | B |
| C1BC7-1D | | |
| C1BC7-39 | | |
| C1BC7-64 | | C |
| C1BC8-11 | | |
| C1BC8-12 | | D |
| C1BC8-19 | | |
| C1BC8-1D | | |
| C1BC8-39 | | SCS |
| C1BC8-64 | | |
| U1000-00 | The following functions are suspended. • Active trace control function • Active lane control function • LDW function • LDP function • Blind spot intervention function | F |
| U1010-49 | The following functions are suspended. • Active trace control function • Active lane control function | G |
| U1A31-00 | The following functions are suspended. • Active lane control function • LDW function • LDP function • Blind spot intervention function | H |
| U1A35-00 | The following functions are suspended. • Active trace control function • Active lane control function • LDW function • LDP function • Blind spot intervention function | I |
| U1A3E-00 | Normal control | J |
| | | K |
| | | L |

DTC Inspection Priority Chart

INFOID:0000000013599756

When multiple DTCs are displayed simultaneously, check them one by one according to the following priority list.

| Priority | Detected item (DTC) | |
|----------|---|---|
| 1 | • U1000-00 CAN COMM CIRCUIT • U1010-49 CONTROL UNIT (CAN) | M |
| 2 | • U1A31-00 DAST COMM • U1A35-00 BRAKE CONTROL COMM • U1A3E-00 ADAS COMM | N |
| 3 | • C1BBD-00 VARIANT CODING | O |
| | | P |

CHASSIS CONTROL MODULE

< ECU DIAGNOSIS INFORMATION >

| Priority | Detected item (DTC) |
|----------|--|
| 4 | <ul style="list-style-type: none"> • C1B90-00 DAST SYSTEM • C1B91-00 CAMERA SYSTEM • C1B92-00 BRAKE CONTROL SYSTEM • C1B93-00 ENGINE/HEV SYSTEM • C1B94-00 TM SYSTEM • C1B96-00 ADAS SYSTEM • C1BA6-00 AV SYSTEM • C1BA7-00 ALC SYSTEM • C1BA9-00 NP RANGE • C1BAA-00 GEAR POSITION • C1BAB-00 STOP LAMP SW • C1BAC-00 OPERATION SW CIRC • C1BAD-00 ACCELERATER PEDAL • C1BAE-00 ACCELERATER PEDAL • C1BAF-00 BSW SYSTEM • C1BB0-06 DR BUZZER SYSTEM • C1BBE-11 Front right shock absorber circuit • C1BBE-12 Front right shock absorber circuit • C1BBE-19 Front right shock absorber circuit • C1BBE-1D Front right shock absorber circuit • C1BBE-39 Front right shock absorber circuit • C1BBE-64 Front right shock absorber circuit • C1BBF-11 Front left shock absorber circuit • C1BBF-12 Front left shock absorber circuit • C1BBF-19 Front left shock absorber circuit • C1BBF-1D Front left shock absorber circuit • C1BBF-39 Front left shock absorber circuit • C1BBF-64 Front left shock absorber circuit • C1BC0-00 FR WHEEL SENSOR • C1BC1-00 FL WHEEL SENSOR • C1BC7-11 Rear right shock absorber circuit • C1BC7-12 Rear right shock absorber circuit • C1BC7-19 Rear right shock absorber circuit • C1BC7-1D Rear right shock absorber circuit • C1BC7-39 Rear right shock absorber circuit • C1BC7-64 Rear right shock absorber circuit • C1BC8-11 Rear left shock absorber circuit • C1BC8-12 Rear left shock absorber circuit • C1BC8-19 Rear left shock absorber circuit • C1BC8-1D Rear left shock absorber circuit • C1BC8-39 Rear left shock absorber circuit • C1BC8-64 Rear left shock absorber circuit |
| 5 | <ul style="list-style-type: none"> • C1BB5-00 IGN POWER SUPPLY • C1BB6-00 IGN POWER SUPPLY |
| 6 | <ul style="list-style-type: none"> • C1B99-00 CONTROL MODULE • C1BB2-00 CONTROL MODULE • C1BB3-00 CONTROL MODULE • C1BB4-00 CONTROL MODULE • C1BB7-00 CONTROL MODULE • C1BB8-00 CONTROL MODULE • C1BB9-00 CONTROL MODULE • C1BBA-00 CONTROL MODULE • C1BBB-00 CONTROL MODULE • C1BBC-00 CONTROL MODULE |

DTC Index

INFOID:0000000013599757

| DTC | Display item | Refer to |
|----------|----------------------|--|
| C1B90-00 | DAST SYSTEM | DAS-580, "DTC Description" |
| C1B91-00 | CAMERA SYSTEM | DAS-582, "DTC Description" |
| C1B92-00 | BRAKE CONTROL SYSTEM | DAS-584, "DTC Description" |

CHASSIS CONTROL MODULE

< ECU DIAGNOSIS INFORMATION >

| DTC | Display item | Refer to |
|----------|------------------------------------|--|
| C1B93-00 | ENGINE/HEV SYSTEM | DAS-586, "DTC Description" |
| C1B94-00 | TM SYSTEM | DAS-588, "DTC Description" |
| C1B96-00 | ADAS SYSTEM | DAS-590, "DTC Description" |
| C1B99-00 | CONTROL NODULE | DAS-592, "DTC Description" |
| C1BA6-00 | AV SYSTEM | DAS-593, "DTC Description" |
| C1BA7-00 | ALC SYSTEM | DAS-595, "DTC Description" |
| C1BA9-00 | NP RANGE | DAS-597, "DTC Description" |
| C1BAA-00 | GEAR POSITION | DAS-599, "DTC Description" |
| C1BAB-00 | STOP LAMP SW | DAS-601, "DTC Description" |
| C1BAC-00 | OPERATION SW CIRC | DAS-603, "DTC Description" |
| C1BAD-00 | ACCELERATER PEDAL | DAS-605, "DTC Description" |
| C1BAE-00 | ACCELERATER PEDAL | DAS-607, "DTC Description" |
| C1BAF-00 | BSW SYSTEM | DAS-609, "DTC Description" |
| C1BB0-06 | DR BUZZER SYSTEM | DAS-611, "DTC Description" |
| C1BB2-00 | CONTROL MODULE | DAS-612, "DTC Description" |
| C1BB3-00 | CONTROL MODULE | DAS-613, "DTC Description" |
| C1BB4-00 | CONTROL MODULE | DAS-614, "DTC Description" |
| C1BB5-00 | IGN POWER SUPPLY | DAS-615, "DTC Description" |
| C1BB6-00 | IGN POWER SUPPLY | DAS-620, "DTC Description" |
| C1BB7-00 | CONTROL MODULE | DAS-623, "DTC Description" |
| C1BB8-00 | CONTROL MODULE | DAS-624, "DTC Description" |
| C1BB9-00 | CONTROL MODULE | DAS-625, "DTC Description" |
| C1BBA-00 | CONTROL MODULE | DAS-626, "DTC Description" |
| C1BBB-00 | CONTROL MODULE | DAS-627, "DTC Description" |
| C1BBC-00 | CONTROL MODULE | DAS-628, "DTC Description" |
| C1BBD-00 | VARIANT CODING | DAS-629, "DTC Description" |
| C1BBE-11 | Front right shock absorber circuit | DAS-630, "DTC Description" |
| C1BBE-12 | Front right shock absorber circuit | DAS-633, "DTC Description" |
| C1BBE-19 | Front right shock absorber circuit | DAS-636, "DTC Description" |
| C1BBE-1D | Front right shock absorber circuit | DAS-639, "DTC Description" |
| C1BBE-39 | Front right shock absorber circuit | DAS-642, "DTC Description" |
| C1BBE-64 | Front right shock absorber circuit | DAS-644, "DTC Description" |
| C1BBF-11 | Front left shock absorber circuit | DAS-647, "DTC Description" |
| C1BBF-12 | Front left shock absorber circuit | DAS-650, "DTC Description" |
| C1BBF-19 | Front left shock absorber circuit | DAS-653, "DTC Description" |
| C1BBF-1D | Front left shock absorber circuit | DAS-656, "DTC Description" |
| C1BBF-39 | Front left shock absorber circuit | DAS-659, "DTC Description" |
| C1BBF-64 | Front left shock absorber circuit | DAS-661, "DTC Description" |
| C1BC0-00 | FR WHEEL SENSOR | DAS-664, "DTC Description" |
| C1BC1-00 | FL WHEEL SENSOR | DAS-666, "DTC Description" |
| C1BC7-11 | Rear right shock absorber circuit | DAS-668, "DTC Description" |
| C1BC7-12 | Rear right shock absorber circuit | DAS-671, "DTC Description" |
| C1BC7-19 | Rear right shock absorber circuit | DAS-674, "DTC Description" |
| C1BC7-1D | Rear right shock absorber circuit | DAS-677, "DTC Description" |

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< ECU DIAGNOSIS INFORMATION >

| DTC | Display item | Refer to |
|----------|-----------------------------------|--|
| C1BC7-39 | Rear right shock absorber circuit | DAS-680, "DTC Description" |
| C1BC7-64 | Rear right shock absorber circuit | DAS-682, "DTC Description" |
| C1BC8-11 | Rear left shock absorber circuit | DAS-685, "DTC Description" |
| C1BC8-12 | Rear left shock absorber circuit | DAS-688, "DTC Description" |
| C1BC8-19 | Rear left shock absorber circuit | DAS-691, "DTC Description" |
| C1BC8-1D | Rear left shock absorber circuit | DAS-694, "DTC Description" |
| C1BC8-39 | Rear left shock absorber circuit | DAS-697, "DTC Description" |
| C1BC8-64 | Rear left shock absorber circuit | DAS-699, "DTC Description" |
| U1000-00 | CAN COMM CIRCUIT | DAS-702, "DTC Description" |
| U1010-49 | CONTROL UNIT (CAN) | DAS-703, "DTC Description" |
| U1A31-00 | DAST COMM | DAS-704, "DTC Description" |
| U1A35-00 | BRAKE CONTROL COMM | DAS-706, "DTC Description" |
| U1A3E-00 | ADAS COMM | DAS-708, "DTC Description" |

DIGITAL MOTION CONTROL

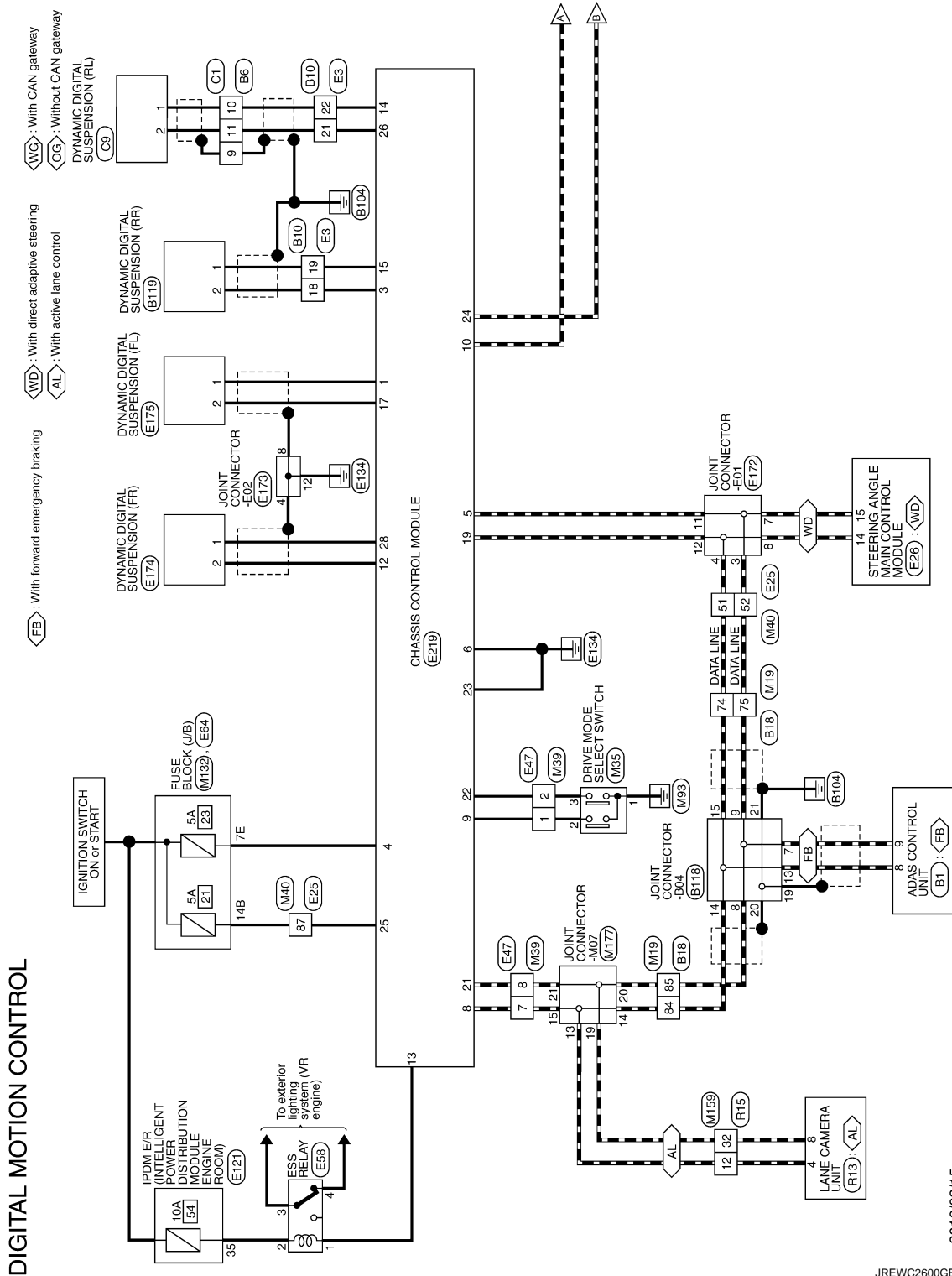
< WIRING DIAGRAM >

WIRING DIAGRAM

DIGITAL MOTION CONTROL

Wiring Diagram

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DIGITAL MOTION CONTROL

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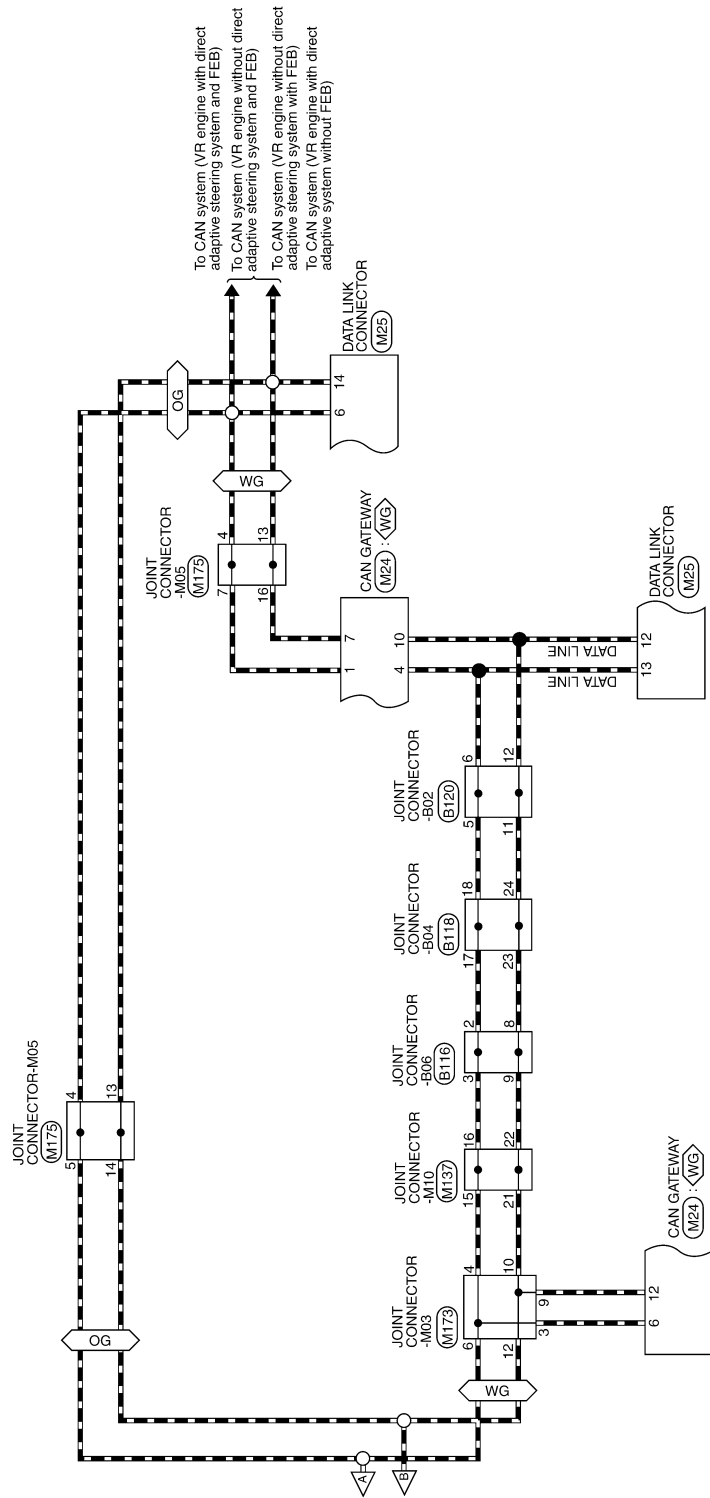
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DIGITAL MOTION CONTROL

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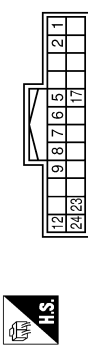
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DIGITAL MOTION CONTROL

< WIRING DIAGRAM >

DIGITAL MOTION CONTROL

| | |
|----------------|-------------------|
| Connector No. | B1 |
| Connector Name | ADAS CONTROL UNIT |
| Connector Type | TH24FW-AH |



| Terminal No. | Color Of Wire | Signal Name (Specification) |
|--------------|---------------|---|
| 1 | L | CAN-H |
| 2 | R | CAN-L |
| 5 | B | GROUND |
| 6 | L | ITS COMM-H |
| 7 | Y | ITS COMM-L |
| 8 | L | CHASSIS COMM-H |
| 9 | R | CHASSIS COMM-L |
| 12 | G | IGNITION (Except with VR30 engine and without BS) |
| 17 | V | IGNITION (VR30 engine and without BS) |
| 23 | Y | BRAKE HOLD RLY DRIVE SIGNAL |
| 24 | SB | STEERING SW SIGNAL GROUND |
| | | STEERING SW SIGNAL |

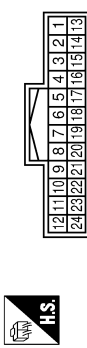
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|----------------|--------------|
| Connector No. | B6 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH16MW-AH |



| Terminal No. | Color Of Wire | Signal Name (Specification) |
|--------------|---------------|-------------------------------------|
| 7 | LG | |
| 8 | GR | |
| 9 | SHIELD | |
| 10 | L | - [With VR30 engine] |
| 10 | V | - [With 2.0L turbo gasoline engine] |
| 11 | G | - [With 2.0L turbo gasoline engine] |
| 11 | V | - [With VR30 engine] |

| | | |
|----|----|---|
| 12 | GR | - |
| 13 | BG | - |
| 14 | LG | - |
| 15 | BR | - |
| 16 | BG | - |

| | |
|----------------|--------------|
| Connector No. | B10 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH24FW-AH |



| Terminal No. | Color Of Wire | Signal Name (Specification) |
|--------------|---------------|-------------------------------------|
| 1 | Y | - [With 2.0L turbo gasoline engine] |
| 2 | W | - [With VR30 engine] |
| 3 | LG | - [With VR30 engine] |
| 4 | P | - [With VR30 engine] |
| 4 | SB | - [With 2.0L turbo gasoline engine] |
| 5 | L | - [With 2.0L turbo gasoline engine] |
| 6 | V | - [With VR30 engine] |
| 7 | LG | - [With VR30 engine] |
| 8 | R | - [With VR30 engine] |
| 9 | W | - [With VR30 engine] |
| 10 | B | - [With VR30 engine] |
| 11 | G | - [With VR30 engine] |
| 12 | R | - [With VR30 engine] |
| 13 | GR | - [With VR30 engine] |
| 14 | BG | - [With VR30 engine] |
| 15 | BR | - [With VR30 engine] |
| 16 | LG | - [With VR30 engine] |
| 17 | V | - [With VR30 engine] |
| 18 | BR | - [With 2.0L turbo gasoline engine] |
| 19 | LG | - [With 2.0L turbo gasoline engine] |
| 19 | Y | - [With VR30 engine] |
| 20 | Y | - [With VR30 engine] |
| 21 | R | - [With 2.0L turbo gasoline engine] |
| 22 | L | - [With VR30 engine] |
| 23 | V | - [With VR30 engine] |
| 24 | B | - [With VR30 engine] |

| | | |
|----|---|-------------------------------------|
| 24 | R | - [With 2.0L turbo gasoline engine] |
|----|---|-------------------------------------|

| | |
|----------------|-----------------|
| Connector No. | B18 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH8DFW-CS16-TM4 |



| Terminal No. | Color Of Wire | Signal Name (Specification) |
|--------------|---------------|---|
| 1 | Y | - [With VR30 engine] |
| 2 | G | - [With VR30 engine] |
| 3 | L | - [With VR30 engine] |
| 4 | LG | - [With VR30 engine] |
| 5 | Y | - [With VR30 engine] |
| 6 | R | - [With VR30 engine] |
| 7 | V | - [With VR30 engine] |
| 8 | LG | - [With VR30 engine] |
| 10 | BG | - [With VR30 engine] |
| 11 | BG | - [With VR30 engine] |
| 12 | LG | - [With VR30 engine] |
| 13 | GR | - [With VR30 engine] |
| 14 | R | - [With VR30 engine] |
| 15 | L | - [With VR30 engine] |
| 16 | V | - [With VR30 engine] |
| 18 | W | - [With VR30 engine] |
| 19 | BR | - [With VR30 engine] |
| 20 | W | - [With VR30 engine] |
| 22 | R | - [With VR30 engine] |
| 23 | V | - [With VR30 engine] |
| 24 | R | - [With 2.0L turbo gasoline engine] |
| 24 | Y | - [With VR30 engine] |
| 25 | P | - [With VR30 engine] |
| 25 | V | - [With 2.0L turbo gasoline engine and without gateway] |
| 25 | W | - [With 2.0L turbo gasoline engine and with gateway] |
| 26 | G | - [With VR30 engine] |
| 27 | R | - [With VR30 engine] |
| 28 | R | - [With VR30 engine] |
| 31 | BR | - [With 2.0L turbo gasoline engine] |
| 31 | B | - [With 2.0L turbo gasoline engine] |
| 32 | B | - [With VR30 engine] |
| 33 | B | - [With VR30 engine] |

| | | |
|----|----|-------------------------------------|
| 34 | LG | - |
| 35 | P | - |
| 36 | W | - |
| 37 | SB | - |
| 38 | LG | - |
| 40 | P | - |
| 41 | SR | - |
| 42 | BR | - |
| 43 | BG | - |
| 44 | BG | - |
| 46 | R | - |
| 50 | W | - |
| 51 | SB | - |
| 52 | V | - |
| 53 | LG | - |
| 54 | R | - |
| 55 | R | - |
| 57 | W | - |
| 58 | V | - |
| 59 | GR | - |
| 60 | G | - |
| 61 | G | - |
| 62 | BG | - |
| 63 | BR | - |
| 64 | Y | - |
| 66 | R | - |
| 70 | R | - |
| 71 | W | - |
| 72 | B | - |
| 73 | W | - |
| 74 | L | - |
| 75 | R | - [Without paddle shift] |
| 75 | V | - [With paddle shift] |
| 76 | BR | - |
| 77 | B | - |
| 78 | SB | - |
| 79 | V | - [With VR30 engine] |
| 79 | W | - [With 2.0L turbo gasoline engine] |
| 83 | B | - |
| 82 | R | - |
| 83 | BG | - |
| 84 | L | - |
| 85 | R | - [Without paddle shift] |
| 85 | V | - [With paddle shift] |
| 86 | B | - |
| 88 | G | - |
| 89 | V | - [With 2.0L turbo gasoline engine] |
| 89 | W | - [With VR30 engine] |
| 91 | GR | - |

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DIGITAL MOTION CONTROL

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|----|----|---|---|--|
| 94 | GR | - | - | [With VR30 engine] |
| 96 | Y | - | - | - |
| 97 | V | - | - | - |
| 98 | BR | - | - | [With VR30 engine and with BOSE system] |
| 98 | Y | - | - | [Except with VR30 engine and with BOSE system] |

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|----------------|--|---------------------|
| Connector No. | | B116 |
| Connector Name | | JOINT CONNECTOR-E06 |
| Connector Type | | 24342_4G42A |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-------------------------------------|
| 1 | L | - |
| 2 | L | - |
| 3 | L | - |
| 4 | L | - |
| 5 | L | - |
| 6 | L | - |
| 7 | R | - |
| 8 | R | - [With Gateway] |
| 8 | R | - [Without Gateway] |
| 9 | R | - [With Gateway] |
| 9 | R | - [Without Gateway] |
| 10 | R | - [With VR30 engine] |
| 10 | V | - [With 2.0L turbo gasoline engine] |
| 11 | V | - |
| 12 | P | - [With Gateway] |
| 12 | R | - [Without Gateway] |
| 14 | SHIELD | - |
| 15 | B | - [With 2.0L turbo gasoline engine] |
| 15 | B | - [With VR30 engine] |
| 16 | SHIELD | - [With VR30 engine] |
| 16 | SHIELD | - [With 2.0L turbo gasoline engine] |
| 17 | L | - [With VR30 engine] |
| 17 | SHIELD | - [With 2.0L turbo gasoline engine] |
| 18 | L | - [With VR30 engine] |
| 18 | SHIELD | - [With 2.0L turbo gasoline engine] |
| 19 | L | - [With VR30 engine] |
| 19 | SHIELD | - [With 2.0L turbo gasoline engine] |
| 20 | L | - [With 2.0L turbo gasoline engine] |

| | | | | |
|----|--------|---|---|-----------------------------------|
| 20 | SHIELD | - | - | [With VR30 engine] |
| 21 | L | - | - | - |
| 22 | P | - | - | - |
| 23 | P | - | - | - |
| 24 | Y | - | - | [With 2.0L turbo gasoline engine] |

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| Connector No. | | B118 |
| Connector Name | | JOINT CONNECTOR-B04 |
| Connector Type | | 24342_4G42A |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|--|
| 1 | LG | - [With VR30 engine] |
| 2 | SHIELD | - [With 2.0L turbo gasoline engine] |
| 2 | LG | - [With VR30 engine] |
| 3 | SHIELD | - [With 2.0L turbo gasoline engine] |
| 4 | LG | - [With VR30 engine] |
| 5 | SHIELD | - [With 2.0L turbo gasoline engine] |
| 5 | LG | - [With VR30 engine] |
| 6 | LG | - [With VR30 engine] |
| 6 | SHIELD | - [With 2.0L turbo gasoline engine] |
| 7 | R | - [Color of wire differs depending on production] |
| 7 | V | - [Color of wire differs depending on production] |
| 8 | LG | - [With 2.0L turbo gasoline engine] |
| 8 | R | - [With VR30 engine and without paddle shift] |
| 8 | V | - [With VR30 engine and with paddle shift] |
| 9 | LG | - [With 2.0L turbo gasoline engine] |
| 9 | R | - [With VR30 engine and without paddle shift] |
| 9 | V | - [With VR30 engine and with paddle shift] |
| 10 | LG | - [With 2.0L turbo gasoline engine] |
| 10 | SHIELD | - [With VR30 engine] |
| 11 | LG | - [With 2.0L turbo gasoline engine] |
| 11 | SHIELD | - [With VR30 engine] |
| 12 | LG | - [With 2.0L turbo gasoline engine] |
| 12 | SHIELD | - [With VR30 engine] |
| 13 | L | - [With 2.0L turbo gasoline engine] |
| 13 | P | - [With VR30 engine] |
| 13 | R | - [With 2.0L turbo gasoline engine and with gateway] |

| | | | | |
|----|--------|---|---|---|
| 14 | L | - | - | [With VR30 engine] |
| 14 | P | - | - | [With 2.0L turbo gasoline engine and without gateway] |
| 14 | R | - | - | [With 2.0L turbo gasoline engine and with gateway] |
| 15 | L | - | - | [With VR30 engine] |
| 15 | R | - | - | [With 2.0L turbo gasoline engine] |
| 16 | L | - | - | - |
| 17 | L | - | - | - |
| 18 | L | - | - | - |
| 19 | L | - | - | [With 2.0L turbo gasoline engine] |
| 19 | SHIELD | - | - | [With VR30 engine] |
| 20 | L | - | - | [With 2.0L turbo gasoline engine] |
| 20 | SHIELD | - | - | [With VR30 engine] |
| 21 | L | - | - | [With 2.0L turbo gasoline engine] |
| 21 | SHIELD | - | - | [With VR30 engine] |
| 22 | R | - | - | - |
| 23 | R | - | - | - |
| 24 | R | - | - | - |

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|----------------|--|---------------------------------|
| Connector No. | | B119 |
| Connector Name | | DYNAMIC DIGITAL SUSPENSION (RR) |
| Connector Type | | AF202FB-1V |



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

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|----------------|--|---------------------|
| Connector No. | | B120 |
| Connector Name | | JOINT CONNECTOR-B02 |
| Connector Type | | 24342_4G42A |



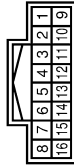
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-------------------------------------|
| 1 | R | - |
| 2 | R | - |
| 3 | L | - [With VR30 engine] |
| 3 | R | - [With 2.0L turbo gasoline engine] |
| 4 | L | - [With VR30 engine] |
| 4 | R | - [With 2.0L turbo gasoline engine] |
| 5 | L | - |
| 6 | L | - |
| 7 | L | - |
| 8 | L | - |
| 9 | L | - [With 2.0L turbo gasoline engine] |
| 9 | R | - [With VR30 engine] |
| 10 | L | - [With 2.0L turbo gasoline engine] |
| 10 | R | - [With VR30 engine] |
| 11 | R | - |
| 12 | R | - |
| 13 | W | - |
| 14 | W | - |
| 15 | W | - |
| 17 | SHIELD | - |
| 18 | B | - |
| 19 | R | - [With 2.0L turbo gasoline engine] |
| 19 | GR | - [With VR30 engine] |
| 20 | SHIELD | - [With VR30 engine] |
| 20 | SHIELD | - [With 2.0L turbo gasoline engine] |
| 21 | B | - [With 2.0L turbo gasoline engine] |
| 21 | GR | - [With VR30 engine] |
| 22 | W | - |
| 23 | W | - |
| 24 | W | - |

DIGITAL MOTION CONTROL

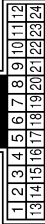
< WIRING DIAGRAM >

DIGITAL MOTION CONTROL

| | |
|----------------|--------------|
| Connector No. | C1 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH16FW-AH |



| | |
|----------------|--------------|
| Connector No. | E3 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH24MW-AH |



| | |
|----------------|-----------------|
| Connector No. | E25 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH80FW-CS16-TM4 |



| Terminal No. | Color Of Wire | Signal Name (Specification) |
|--------------|---------------|-------------------------------------|
| 7 | LG | - [With 2.0L turbo gasoline engine] |
| 8 | GR | - [With VR30 engine] |
| 9 | SHIELD | - [With 2.0L turbo gasoline engine] |
| 10 | L | - [With VR30 engine] |
| 11 | V | - [With 2.0L turbo gasoline engine] |
| 12 | GR | - [With 2.0L turbo gasoline engine] |
| 13 | BG | - [With 2.0L turbo gasoline engine] |
| 14 | LG | - [With 2.0L turbo gasoline engine] |
| 15 | BR | - [With 2.0L turbo gasoline engine] |
| 16 | BG | - [With 2.0L turbo gasoline engine] |

| | |
|----------------|---------------------------------|
| Connector No. | C9 |
| Connector Name | DYNAMIC DIGITAL SUSPENSION (RL) |
| Connector Type | AFZ02FB-1V |



| Terminal No. | Color Of Wire | Signal Name (Specification) |
|--------------|---------------|-----------------------------|
| 1 | L | - [With VR30 engine] |
| 2 | G | - [With VR30 engine] |

| Terminal No. | Color Of Wire | Signal Name (Specification) |
|--------------|---------------|--|
| 1 | BG | - [With VR30 engine] |
| 6 | V | - [With 2.0L turbo gasoline engine] |
| 7 | L | - [With VR30 engine] |
| 8 | BG | - [With VR30 engine] |
| 8 | BR | - [With 2.0L turbo gasoline engine] |
| 9 | B | - [With 2.0L turbo gasoline engine] |
| 9 | GR | - [With VR30 engine] (Color of wire differs depending on production) |
| 9 | LG | - [With VR30 engine] (Color of wire differs depending on production) |
| 10 | BR | - [With VR30 engine] |
| 11 | L | - [With VR30 engine] |
| 12 | GR | - [With 2.0L turbo gasoline engine] |
| 12 | P | - [With 2.0L turbo gasoline engine] |
| 13 | SHIELD | - [With 2.0L turbo gasoline engine] |
| 13 | W | - [With VR30 engine] |
| 14 | B | - [With VR30 engine] |
| 14 | B | - [With 2.0L turbo gasoline engine] |
| 15 | GR | - [With 2.0L turbo gasoline engine] |
| 15 | S8 | - [With VR30 engine] |
| 16 | BR | - [With 2.0L turbo gasoline engine] |
| 16 | Y | - [With VR30 engine] |
| 17 | BR | - [With VR30 engine] |
| 17 | GR | - [With 2.0L turbo gasoline engine] |
| 18 | G | - [With 2.0L turbo gasoline engine] |
| 18 | P | - [With VR30 engine] |
| 19 | V | - [With VR30 engine] |
| 20 | GR | - [With VR30 engine] |
| 21 | R | - [With 2.0L turbo gasoline engine] |
| 21 | V | - [With VR30 engine] |
| 22 | L | - [With VR30 engine] |
| 23 | P | - [With VR30 engine] |
| 24 | B | - [With VR30 engine] |
| 24 | BR | - [With 2.0L turbo gasoline engine] |

| | | |
|----|--------|---|
| 38 | P | - [With 2.0L turbo gasoline engine and without gateway] |
| 38 | BR | - [With 2.0L turbo gasoline engine and with gateway] |
| 39 | R | - [With 2.0L turbo gasoline engine] |
| 39 | Y | - [With VR30 engine] |
| 40 | S8 | - [With VR30 engine] |
| 41 | LG | - [With VR30 engine] |
| 44 | Y | - [With 2.0L turbo gasoline engine] |
| 45 | L | - [With 2.0L turbo gasoline engine] |
| 46 | W | - [With VR30 engine] |
| 46 | B | - [With VR30 engine] |
| 46 | Z | - [With 2.0L turbo gasoline engine] |
| 47 | G | - [With VR30 engine] |
| 48 | SHIELD | - [With VR30 engine] |
| 49 | R | - [With VR30 engine] |
| 50 | BR | - [With 2.0L turbo gasoline engine] |
| 50 | GR | - [With 2.0L turbo gasoline engine] |
| 51 | L | - [With VR30 engine] |
| 52 | W | - [With VR30 engine] |
| 53 | V | - [With VR30 engine] |
| 54 | P | - [With 2.0L turbo gasoline engine] |
| 54 | W | - [With 2.0L turbo gasoline engine] |
| 55 | B | - [With VR30 engine] |
| 55 | W | - [With VR30 engine] |
| 56 | BG | - [With 2.0L turbo gasoline engine] |
| 56 | S8 | - [With VR30 engine] |
| 57 | BG | - [With VR30 engine] |
| 57 | W | - [With 2.0L turbo gasoline engine] |
| 58 | B | - [Color of wire differs depending on production] |
| 58 | B/W | - [Color of wire differs depending on production] |
| 59 | W | - [With VR30 engine] |
| 59 | R | - [With VR30 engine] |
| 61 | R | - [With VR30 engine] |
| 64 | Y | - [Color of wire differs depending on production] |
| 65 | BR | - [Color of wire differs depending on production] |
| 65 | GR | - [Color of wire differs depending on production] |
| 66 | GR | - [With VR30 engine] |
| 67 | LG | - [With VR30 engine] |
| 68 | BG | - [With VR30 engine] |
| 69 | L | - [With VR30 engine] |
| 70 | R | - [With 2.0L turbo gasoline engine] |
| 71 | G | - [With VR30 engine] |
| 71 | LG | - [With VR30 engine] |
| 72 | L | - [With 2.0L turbo gasoline engine] |
| 72 | V | - [With VR30 engine] |
| 73 | G | - [With 2.0L turbo gasoline engine] |
| 73 | W | - [With 2.0L turbo gasoline engine] |
| 74 | BR | - [With VR30 engine] |
| 74 | L | - [With 2.0L turbo gasoline engine] |
| 75 | P | - [With 2.0L turbo gasoline engine and without gateway] |
| 75 | R | - [With 2.0L turbo gasoline engine and with gateway] |
| 75 | V | - [With VR30 engine] |

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DIGITAL MOTION CONTROL

< WIRING DIAGRAM >

DIGITAL MOTION CONTROL

| | | | |
|-----|--------|---|---|
| 76 | G | - | - |
| 77 | Y | - | - |
| 78 | LG | - [With 2.0L turbo gasoline engine and with ADAS] | - |
| 78 | P | - [With VR30 engine] | - |
| 78 | V | - [With 2.0L turbo gasoline engine and without ADAS] | - |
| 79 | SB | - | - |
| 80 | G | - | - |
| 81 | R | - | - |
| 82 | V | - | - |
| 83 | BR | - [With 2.0L turbo gasoline engine] | - |
| 83 | R | - [With VR30 engine] | - |
| 84 | LG | - | - |
| 85 | BG | - | - |
| 87 | G | - | - |
| 89 | LG | - | - |
| 90 | G | - [With VR30 engine] | - |
| 90 | GR | - [With 2.0L turbo gasoline engine] | - |
| 91 | G | - | - |
| 93 | BG | - | - |
| 94 | GR | - [With VR30 engine] | - |
| 94 | L | - [With 2.0L turbo gasoline engine] | - |
| 95 | BG | - [With VR30 engine] | - |
| 95 | P | - [With 2.0L turbo gasoline engine and without gateway] | - |
| 95 | R | - [With 2.0L turbo gasoline engine and with gateway] | - |
| 96 | W | - | - |
| 97 | LG | - | - |
| 98 | L | - | - |
| 99 | LG | - [With 2.0L turbo gasoline engine] | - |
| 99 | P | - [With VR30 engine] | - |
| 100 | SHIELD | - | - |

| | |
|----------------|------------------------------------|
| Connector No. | E26 |
| Connector Name | STEERING ANGLE MAIN CONTROL MODULE |
| Connector Type | RH24HR-R284-14H |



| | | | |
|--------------|-------|------|---|
| Terminal No. | Color | Wire | Signal Name [Specification] |
| 1 | BR | - | TORQUE SENSOR MAIN SIGNAL |
| 2 | Y | - | STEERING ANGLE MAIN MOTOR RESOLVER SIGNAL (S1-S3) |
| 3 | LG | - | TORQUE SENSOR SUB SIGNAL |
| 4 | G | - | STEERING ANGLE MAIN MOTOR RESOLVER SIGNAL (S1-S3) |

| | | | |
|----|----|--|---|
| 5 | W | STEERING ANGLE MAIN MOTOR RESOLVER SIGNAL (S2-S4) | - |
| 6 | L | STEERING ANGLE MAIN MOTOR RESOLVER SIGNAL (S2-S4) | - |
| 7 | SB | TORQUE SENSOR GROUND | - |
| 8 | P | TORQUE SENSOR POWER SUPPLY | - |
| 10 | R | STEERING ANGLE MAIN MOTOR RESOLVER SIGNAL (R1-R3) | - |
| 11 | BR | STEERING ANGLE MAIN MOTOR RESOLVER SIGNAL (R1-R3) | - |
| 14 | L | CHASSIS COMMUNICATION-H | - |
| 15 | W | CHASSIS COMMUNICATION-L | - |
| 17 | BG | BACK UP SIGNAL (FOR STEERING ANGLE SUB CONTROL MODULE) | - |
| 18 | SB | BACK UP SIGNAL (FOR STEERING ANGLE SUB CONTROL MODULE) | - |
| 19 | V | ELEGANT COMMUNICATION-H | - |
| 20 | GR | ELEGANT COMMUNICATION-L | - |
| 22 | GR | BACK UP SIGNAL (TO PREVENT ANGLE SUB CONTROL MODULE) | - |
| 23 | BR | CAN WAKE UP | - |
| 24 | P | BACK UP SIGNAL (TO STEERING FORCE CONTROL MODULE) | - |
| 25 | G | STEERING ANGLE MAIN MOTOR RESOLVER SIGNAL (COMMON) | - |
| 30 | B | GROUND | - |
| 32 | GR | GROUND | - |

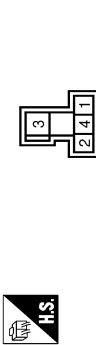
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| Connector No. | E47 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH32MV-VNH |



| | | | |
|--------------|-------|------|---|
| Terminal No. | Color | Wire | Signal Name [Specification] |
| 1 | G | - | - [Color of wire differs depending on production] |
| 1 | Y | - | - [Color of wire differs depending on production] |
| 2 | V | - | - |
| 3 | L | - | - |
| 4 | P | - | - [Without Gateway] |
| 4 | R | - | - [With Gateway] |
| 5 | W | - | - |
| 6 | SB | - | - |
| 7 | BR | - | - [Color of wire differs depending on production] |
| 7 | L | - | - [Color of wire differs depending on production] |
| 8 | W | - | - |
| 9 | BG | - | - [Without BOSE system] |
| 9 | V | - | - [With BOSE system] |
| 10 | V | - | - |
| 11 | SB | - | - |
| 12 | G | - | - |

| | | | |
|----|--------|---|---|
| 13 | G | - | - |
| 15 | BR | - | - |
| 16 | P | - | - |
| 17 | SHIELD | - | - |
| 18 | L | - | - |
| 19 | Y | - | - |
| 20 | W | - | - |
| 21 | G | - | - |
| 22 | R | - | - |
| 23 | BR | - | - |
| 24 | R | - | - |
| 25 | - | - | - |
| 26 | BG | - | - |
| 27 | LG | - | - |
| 28 | BR | - | - |
| 29 | W | - | - |
| 30 | Y | - | - |
| 31 | G | - | - |
| 32 | GR | - | - |

| | |
|----------------|--------------|
| Connector No. | E58 |
| Connector Name | ESS RELAY |
| Connector Type | MS03FB-M2-LC |



| | | | |
|--------------|-------|------|-------------------------------------|
| Terminal No. | Color | Wire | Signal Name [Specification] |
| 1 | P | - | - [With VR30 engine] |
| 1 | R | - | - [With 2.0L turbo gasoline engine] |
| 2 | G | - | - |
| 3 | W | - | - |
| 4 | LG | - | - |

| | |
|----------------|------------------|
| Connector No. | E64 |
| Connector Name | FUSE BLOCK (I/B) |
| Connector Type | NS08FW-C5 |



| | | | |
|--------------|-------|------|-----------------------------|
| Terminal No. | Color | Wire | Signal Name [Specification] |
| 1E | - | - | - |
| 2E | - | - | - |
| 3E | - | - | - |
| 4E | - | - | - |
| 6E | - | - | - |
| 7E | - | - | - |
| 8E | - | - | - |

| | |
|----------------|---|
| Connector No. | E121 |
| Connector Name | POWER INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM |
| Connector Type | TH32FW-VNH |



| | | | |
|--------------|-------|------|---|
| Terminal No. | Color | Wire | Signal Name [Specification] |
| 19 | L | - | - [With 2.0L turbo gasoline engine] |
| 19 | P | - | - [With VR30 engine] |
| 22 | BG | - | - |
| 23 | GR | - | - [With VR30 engine] |
| 23 | LG | - | - [With 2.0L turbo gasoline engine and without BOSE system] |
| 23 | P | - | - [With 2.0L turbo gasoline engine and with BOSE system] |
| 27 | GR | - | - |
| 28 | P | - | - |
| 29 | L | - | - |
| 31 | G | - | - |
| 32 | SB | - | - |
| 33 | SB | - | - |
| 34 | Y | - | - |
| 35 | G | - | - |

DIGITAL MOTION CONTROL

< WIRING DIAGRAM >

DIGITAL MOTION CONTROL

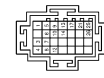
| | | |
|----|----|-------------------------------------|
| 36 | 5B | - [With VR30 engine] |
| 36 | W | - [With 2.0L turbo gasoline engine] |
| 37 | GR | - |
| 38 | BR | - |
| 41 | GR | - |
| 43 | V | - |

| | |
|----------------|---------------------|
| Connector No. | E172 |
| Connector Name | JOINT CONNECTOR-E01 |
| Connector Type | SGA28FLBR-J |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|---|
| 1 | GR | - |
| 2 | Y | - |
| 3 | W | - |
| 4 | L | - |
| 5 | GR | - |
| 6 | Y | - |
| 7 | W | - |
| 8 | L | - |
| 9 | GR | - |
| 10 | Y | - |
| 11 | W | - |
| 12 | L | - |
| 13 | W | - |
| 14 | W | - |
| 15 | W | - |
| 16 | BG | - |
| 17 | P | - |
| 18 | L | - |
| 19 | W | - |
| 20 | BG | - |
| 21 | P | - |
| 22 | L | - |
| 23 | 5B | - [Color of wire differs depending on production] |
| 24 | BG | - [Color of wire differs depending on production] |
| 25 | P | - [Color of wire differs depending on production] |
| 26 | L | - |
| 27 | Y | - |
| 28 | L | - |

| | |
|----------------|---------------------|
| Connector No. | E173 |
| Connector Name | JOINT CONNECTOR-E02 |
| Connector Type | SGA28FD0J-J |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|---|
| 1 | G | - [Color of wire differs depending on production] |
| 1 | R | - [Color of wire differs depending on production] |
| 3 | B | - |
| 4 | B | - |
| 5 | G | - |
| 6 | BR | - |
| 7 | B | - |
| 8 | B | - |
| 9 | G | - |
| 10 | L | - |
| 12 | B | - |
| 13 | G | - |
| 14 | BR | - |
| 17 | G | - |
| 21 | G | - |
| 25 | R | - |
| 26 | L | - |

| | |
|----------------|---------------------------------|
| Connector No. | E174 |
| Connector Name | DYNAMIC DIGITAL SUSPENSION (FR) |
| Connector Type | AFZ02Fb-1V |



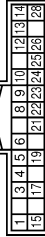
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | R | - |
| 2 | G | - |

| | |
|----------------|---------------------------------|
| Connector No. | E175 |
| Connector Name | DYNAMIC DIGITAL SUSPENSION (FL) |
| Connector Type | AFZ02Fb-1V |



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

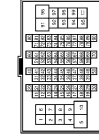
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| Connector No. | E219 |
| Connector Name | CHASSIS CONTROL MODULE |
| Connector Type | THR28FV |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|---|
| 1 | LG | ACTUATOR (FL-L) |
| 3 | BR | ACTUATOR (RR-H) |
| 4 | BG | IGN |
| 5 | W | CHASSIS COMMA-L |
| 6 | B | GROUND |
| 8 | BR | CHASSIS COMMA (Color of wire differs depending on production) |
| 8 | L | CHASSIS COMMA (Color of wire differs depending on production) |
| 9 | G | CHASSIS COMMA (Color of wire differs depending on production) |
| 9 | Y | CHASSIS COMMA (Color of wire differs depending on production) |
| 10 | L | CAN-H |
| 12 | G | ACTUATOR (FR-H) |
| 13 | G | ESS RELAY |
| 14 | L | ACTUATOR (RU-L) |
| 15 | V | ACTUATOR (FL-H) |
| 17 | L | CHASSIS COMMA-H |
| 19 | L | CHASSIS COMMA-H |
| 21 | W | CHASSIS COMMA-L |
| 22 | V | DRIVE MODE SELECT SWITCH (UP) |

| | | |
|----|---|-------------------------|
| 23 | B | GROUND |
| 24 | P | CAN-L [Without Gateway] |
| 24 | R | CAN-L [With Gateway] |
| 25 | G | IGN |
| 26 | V | ACTUATOR (RL-H) |
| 28 | R | ACTUATOR (RL-L) |

| | |
|----------------|-----------------|
| Connector No. | M19 |
| Connector Name | WIRE TO WIRE |
| Connector Type | THR80MW/CS16TM4 |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-------------------------------------|
| 1 | Y | - |
| 2 | G | - |
| 3 | 5B | - |
| 4 | BR | - |
| 5 | Y | - |
| 6 | R | - |
| 7 | W | - |
| 8 | V | - |
| 10 | BG | - |
| 11 | BR | - |
| 12 | LG | - |
| 13 | GR | - |
| 14 | R | - |
| 15 | L | - |
| 16 | V | - |
| 18 | W | - |
| 19 | BR | - |
| 20 | W | - |
| 22 | 5B | - |
| 23 | R | - |
| 24 | R | - [With 2.0L turbo gasoline engine] |
| 24 | P | - [With VR30 engine] |
| 25 | P | - [With 2.0L turbo gasoline engine] |
| 25 | W | - [With VR30 engine] |
| 26 | G | - |
| 27 | R | - |
| 28 | R | - |
| 31 | BR | - |

A
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DIGITAL MOTION CONTROL

< WIRING DIAGRAM >

DIGITAL MOTION CONTROL

| | | |
|----|--------|---|
| 8 | BR | - [With 2.0L turbo gasoline engine] |
| 9 | LG | - [With VR30 engine] |
| 9 | P | - [With 2.0L turbo gasoline engine] |
| 10 | W | - |
| 11 | W | - [With VR30 engine] |
| 11 | Y | - [With 2.0L turbo gasoline engine] |
| 12 | B | - [With VR30 engine] |
| 12 | BR | - [With 2.0L turbo gasoline engine] |
| 13 | GR | - [With VR30 engine] |
| 13 | GR | - [With 2.0L turbo gasoline engine] |
| 14 | B | - |
| 15 | BG | - [With 2.0L turbo gasoline engine] |
| 15 | SB | - [With VR30 engine] |
| 16 | B | - [With VR30 engine] |
| 16 | BR | - [With 2.0L turbo gasoline engine] |
| 17 | LG | - |
| 18 | W/B | - [With VR30 engine] |
| 19 | Y | - |
| 31 | W | - |
| 32 | G | - [With 2.0L turbo gasoline engine] |
| 32 | V | - [With VR30 engine] |
| 33 | L | - [With 2.0L turbo gasoline engine] |
| 33 | Y | - [With VR30 engine] |
| 34 | P | - |
| 35 | BG | - |
| 36 | G | - |
| 37 | B | - [With VR30 engine] |
| 37 | L | - [With 2.0L turbo gasoline engine] |
| 38 | P | - [With VR30 engine] |
| 38 | R | - [With 2.0L turbo gasoline engine and without gateway] |
| 39 | R | - [With 2.0L turbo gasoline engine and with gateway] |
| 39 | Y | - [With VR30 engine] |
| 40 | GR | - |
| 41 | L | - |
| 44 | BR | - |
| 45 | L | - [With 2.0L turbo gasoline engine] |
| 45 | W | - [With VR30 engine] |
| 46 | G | - [With VR30 engine] |
| 46 | V | - [With 2.0L turbo gasoline engine] |
| 47 | BG | - [With 2.0L turbo gasoline engine] |
| 47 | R | - [With VR30 engine] |
| 48 | SHIELD | - |
| 49 | B | - [With VR30 engine] |
| 49 | G | - [With 2.0L turbo gasoline engine] |
| 50 | B | - [With 2.0L turbo gasoline engine] |
| 50 | BR | - [With VR30 engine] |
| 51 | L | - |
| 52 | W | - |

| | | |
|----|-----|---|
| 53 | G | - |
| 54 | SB | - [With 2.0L turbo gasoline engine] |
| 54 | Y | - [With VR30 engine] |
| 55 | P | - [With 2.0L turbo gasoline engine] |
| 55 | B | - [With VR30 engine] |
| 56 | BG | - [With VR30 engine] |
| 56 | GR | - [With 2.0L turbo gasoline engine] |
| 57 | GR | - [With VR30 engine] |
| 57 | GR | - [With 2.0L turbo gasoline engine] |
| 58 | B | - |
| 59 | SB | - |
| 61 | W/B | - |
| 64 | Y | - |
| 65 | R | - |
| 66 | P | - [Color of wire differs depending on production] |
| 66 | V | - [Color of wire differs depending on production] |
| 67 | LG | - |
| 68 | BG | - |
| 69 | L | - |
| 70 | R | - |
| 71 | W | - [With VR30 engine] |
| 71 | V | - [With 2.0L turbo gasoline engine] |
| 72 | L | - [With 2.0L turbo gasoline engine] |
| 72 | LG | - [With VR30 engine] |
| 73 | R | - [With VR30 engine] |
| 73 | W | - [With 2.0L turbo gasoline engine] |
| 74 | BR | - [With VR30 engine] |
| 74 | L | - [With 2.0L turbo gasoline engine] |
| 75 | P | - [With VR30 engine] |
| 75 | B | - [With 2.0L turbo gasoline engine and without gateway] |
| 76 | W/B | - [With 2.0L turbo gasoline engine and with gateway] |
| 76 | R | - |
| 77 | SB | - |
| 78 | G | - [With VR30 engine] |
| 78 | LG | - [With 2.0L turbo gasoline engine] |
| 79 | R | - |
| 80 | G | - |
| 81 | B | - |
| 82 | LG | - |
| 83 | BR | - [With 2.0L turbo gasoline engine] |
| 83 | R | - [With VR30 engine] |
| 84 | V | - |
| 86 | V | - |
| 87 | G | - |
| 89 | V | - |
| 90 | G | - [With VR30 engine] |
| 90 | V | - [With 2.0L turbo gasoline engine] |
| 91 | W | - |
| 92 | G | - |
| 93 | BR | - |

| | | |
|-----|--------|---|
| 94 | GR | - [With VR30 engine] |
| 94 | L | - [With 2.0L turbo gasoline engine] |
| 95 | BR | - [With VR30 engine] |
| 95 | P | - [With 2.0L turbo gasoline engine and without gateway] |
| 95 | R | - [With 2.0L turbo gasoline engine and with gateway] |
| 96 | W | - |
| 97 | LG | - |
| 98 | V | - |
| 99 | BR | - |
| 99 | LG | - [With 2.0L turbo gasoline engine] |
| 100 | SHIELD | - |

| | |
|----------------|------------------|
| Connector No. | M133 |
| Connector Name | FUSE BLOCK (J/B) |
| Connector Type | MS16FW-CS |



| Terminal No. | Color Of Wire | Signal Name (Specification) |
|--------------|---------------|-----------------------------|
| 11B | LG | - |
| 13B | P | - |
| 14B | G | - |
| 15B | Y | - |
| 16B | Y | - |
| 2B | B | - |
| 4B | W | - |
| 5B | R | - |
| 9B | Y | - |

| | |
|----------------|--------------|
| Connector No. | M159 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH40FW-NH |



| | |
|----------------|---------------------|
| Connector No. | M137 |
| Connector Name | JOINT CONNECTOR-M10 |
| Connector Type | 24342_4GAGA |



| Terminal No. | Color Of Wire | Signal Name (Specification) |
|--------------|---------------|-----------------------------|
| 1 | B | - |
| 2 | B | - |
| 3 | B | - |
| 4 | B | - |
| 5 | B | - |
| 7 | B | - |
| 8 | B | - |
| 9 | B | - |
| 10 | B | - |
| 11 | B | - |
| 13 | L | - |
| 14 | L | - |
| 15 | L | - |
| 16 | L | - |
| 19 | R | - |
| 20 | R | - |
| 21 | R | - |
| 22 | R | - |

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DIGITAL MOTION CONTROL

< WIRING DIAGRAM >

DIGITAL MOTION CONTROL

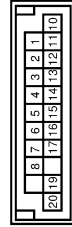
| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|--|
| 1 | G | - |
| 2 | B | - |
| 3 | BR | - |
| 4 | R | - |
| 5 | GR | - |
| 6 | R | - [With VR30 engine and with ISS] |
| 6 | W | - [Except with VR30 engine and with ISS] |
| 7 | L | - |
| 9 | SHIELD | - |
| 10 | W | - |
| 11 | R | - |
| 12 | L | - |
| 13 | G | - |
| 14 | Y | - |
| 15 | B | - |
| 17 | B | - |
| 19 | R | - |
| 20 | BG | - [Except with VR30 engine and with BOSE system] |
| 20 | BR | - [With VR30 engine and with BOSE system] |
| 21 | R | - |
| 22 | G | - |
| 24 | B | - |
| 25 | W | - |
| 26 | R | - |
| 27 | P | - |
| 28 | B | - |
| 29 | G | - |
| 30 | L | - |
| 31 | W | - |
| 32 | W | - |
| 33 | L | - |
| 36 | V | - |
| 38 | LG | - |
| 40 | W | - |

| | |
|----------------|---------------------|
| Connector No. | M173 |
| Connector Name | JOINT CONNECTOR-M03 |
| Connector Type | 24342_4GA2A |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|--------------------------------------|
| 1 | L | - |
| 2 | L | - |
| 3 | L | - |
| 4 | L | - |
| 5 | L | - |
| 6 | L | - |
| 7 | R | - |
| 8 | R | - |
| 9 | R | - |
| 10 | R | - |
| 11 | R | - |
| 12 | R | - |
| 13 | SB | - |
| 14 | SB | - |
| 15 | SB | - |
| 16 | L | - [With 2.0L turbo gasoline engine] |
| 16 | L | - [With VR30 engine] |
| 17 | SB | - [With VR30 engine] |
| 17 | L | - [With 2.0L turbo gasoline engine] |
| 17 | SB | - [With VR30 engine] |
| 18 | SB | - [With 2.0L turbo gasoline engine] |
| 18 | SB | - [With VR30 engine] |
| 19 | BR | - [With VR30 engine] |
| 19 | LG | - [With 2.0L turbo gasoline engine] |
| 20 | BR | - [With VR30 engine] |
| 20 | LG | - [With 2.0L turbo gasoline engine] |
| 21 | BR | - [With VR30 engine] |
| 21 | LG | - [With 2.0L turbo gasoline engine] |
| 22 | R | - [With 2.0L turbo gasoline engine] |
| 22 | SB | - [With VR30 engine and without ISS] |
| 22 | V | - [With VR30 engine and with ISS] |
| 23 | R | - [With 2.0L turbo gasoline engine] |
| 23 | SB | - [With VR30 engine and without ISS] |
| 23 | V | - [With VR30 engine and with ISS] |
| 24 | R | - [With 2.0L turbo gasoline engine] |
| 24 | SB | - [With VR30 engine and without ISS] |
| 24 | V | - [With VR30 engine and with ISS] |

| | |
|----------------|---------------------|
| Connector No. | M175 |
| Connector Name | JOINT CONNECTOR-M05 |
| Connector Type | NH20FL-DC |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|--|
| 1 | L | - |
| 2 | L | - |
| 3 | L | - |
| 4 | L | - |
| 5 | L | - |
| 6 | L | - |
| 7 | L | - |
| 8 | L | - |
| 10 | P | - |
| 11 | P | - |
| 12 | P | - |
| 13 | P | - |
| 14 | P | - |
| 15 | P | - |
| 16 | P | - [With VR30 engine] |
| 16 | R | - [With 2.0L turbo gasoline engine] |
| 17 | P | - [With VR30 engine] |
| 17 | R | - [With 2.0L turbo gasoline engine] |
| 19 | R | - [With VR30 engine and with ISS] |
| 19 | W | - [Except with VR30 engine and with ISS] |
| 20 | R | - [With VR30 engine and with ISS] |
| 20 | W | - [Except with VR30 engine and with ISS] |

| | |
|----------------|---------------------|
| Connector No. | M177 |
| Connector Name | JOINT CONNECTOR-M07 |
| Connector Type | 24342_4GA2A |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | L | - |
| 2 | L | - |
| 3 | L | - |
| 4 | L | - |
| 5 | L | - |
| 6 | L | - |
| 7 | P | - |
| 8 | P | - |
| 9 | P | - |
| 10 | P | - |
| 11 | P | - |
| 12 | P | - |
| 13 | L | - |
| 14 | L | - |
| 15 | L | - |
| 16 | L | - |
| 17 | L | - |
| 18 | L | - |
| 19 | W | - |
| 20 | W | - |
| 21 | W | - |
| 22 | P | - |
| 23 | P | - |
| 24 | P | - |

JREW2609GB

DIGITAL MOTION CONTROL

< WIRING DIAGRAM >

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DIGITAL MOTION CONTROL

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|----------------|------------------|
| Connector No. | R13 |
| Connector Name | LANE CAMERA UNIT |
| Connector Type | TH09FW-NH |



| | | |
|----|----|---|
| 19 | BG | - |
| 20 | BG | - [Without BOSE system] - [With BOSE system] |
| 20 | BR | - |
| 21 | R | - |
| 22 | G | - |
| 24 | B | - |
| 25 | BG | - [Color of wire differs depending on production] |
| 25 | P | - [Color of wire differs depending on production] |
| 26 | BR | - |
| 27 | GR | - |
| 28 | B | - |
| 29 | R | - |
| 30 | L | - |
| 31 | V | - |
| 32 | W | - |
| 33 | L | - |
| 36 | BR | - |
| 38 | SB | - |
| 40 | W | - |

| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | B | CAN_GND |
| 4 | L | CAN-H |
| 5 | B | GND |
| 7 | V | IGN |
| 8 | W | CAN-L |

| | |
|----------------|--------------|
| Connector No. | R15 |
| Connector Name | WIRE TO WIRE |
| Connector Type | TH00MW-NH |



| Terminal No. | Color Of Wire | Signal Name [Specification] |
|--------------|---------------|-----------------------------|
| 1 | G | - |
| 2 | LG | - |
| 3 | BR | - |
| 4 | V | - |
| 5 | BG | - |
| 6 | GR | - |
| 7 | BR | - |
| 9 | SHIELD | - |
| 10 | GR | - |
| 11 | R | - |
| 12 | L | - |
| 13 | G | - |
| 14 | Y | - |
| 15 | B | - |
| 17 | SB | - |

JREW2610GB

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:000000013583981

DETAILED FLOW

1. INTERVIEW FROM THE CUSTOMER

Clarify customer complaints before inspection. First of all, perform an interview utilizing [SCS-51, "Diagnostic Work Sheet"](#) and reproduce the symptom as well as fully understand it. Ask customer about his/her complaints carefully. Check symptoms by driving vehicle with customer, if necessary.

CAUTION:

Customers are not professional. Never guess easily like “maybe the customer means that...,” or “maybe the customer mentions this symptom”.

>> GO TO 2.

2. CHECK SYMPTOM

Reproduce the symptom that is indicated by the customer, based on the information from the customer obtained by the interview. Also check that the symptom is not caused by fail-safe mode. Refer to [SCS-33, "Fail-Safe \(Chassis Control Module\)"](#).

CAUTION:

When the symptom is caused by normal operation, fully inspect each portion and obtain the understanding of customer that the symptom is not caused by a malfunction.

>> GO TO 3.

3. PERFORM SELF-DIAGNOSIS

Ⓟ With CONSULT

1. Perform self-diagnosis for “CHASSIS CONTROL”.

Is DTC detected?

YES >> Record or print self-diagnosis results and freeze frame data (FFD). GO TO 4.

NO >> INSPECTION END

4. RECHECK THE SYMPTOM

Ⓟ With CONSULT

Perform DTC confirmation procedures for the error-detected system. Refer to [SCS-36, "DTC Index"](#).

NOTE:

If some DTCs are detected at the same time, determine the order for performing the diagnosis based on [SCS-35, "DTC Inspection Priority Chart"](#).

Is DTC detected?

YES >> GO TO 5.

NO >> Check harness and connectors based on the information obtained by the interview.

5. REPAIR OR REPLACE ERROR-DETECTED PARTS

1. Repair or replace error-detected parts.
2. Reconnect part or connector after repairing or replacing.
3. When DTC is detected, erase self-diagnosis results for “CHASSIS CONTROL”.

>> GO TO 6.

6. FINAL CHECK

Ⓟ With CONSULT

1. Check the reference value for “CHASSIS CONTROL”.

2. Recheck the symptom and check that the symptom is not reproduced on the same conditions.

Is the symptom reproduced?

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

- YES >> GO TO 3.
 NO >> INSPECTION END

Diagnostic Work Sheet

INFOID:0000000013583982

Description

- In general, customers have their own criteria for a symptom. Therefore, it is important to understand the symptom and status well enough by interviewing the customer about the symptom carefully. To systemize all the information for the diagnosis, prepare the interview sheet referring to the interview points.
- In some cases, multiple conditions that appear simultaneously may cause a DTC to be detected.

INTERVIEW SHEET SAMPLE

| Interview sheet | | | | | |
|---------------------------|--|--|--|---------------------------|------------|
| Customer name | MR/MS | Registration number | | Initial year registration | |
| | | Vehicle type | | VIN | |
| Storage date | | Engine, Traction motor | | Mileage | km (Mile) |
| Symptom | <input type="checkbox"/> Does not operate () function | | | | |
| | <input type="checkbox"/> Warning lamp for () turns ON. | | | | |
| | <input type="checkbox"/> Noise <input type="checkbox"/> Vibration | | | | |
| | <input type="checkbox"/> Other () | | | | |
| First occurrence | <input type="checkbox"/> Recently <input type="checkbox"/> Other () | | | | |
| Frequency of occurrence | <input type="checkbox"/> Always <input type="checkbox"/> Under a certain conditions of <input type="checkbox"/> Sometimes (time(s)/day) | | | | |
| Climate conditions | <input type="checkbox"/> Irrelevant | | | | |
| | Weather | <input type="checkbox"/> Fine <input type="checkbox"/> Cloud <input type="checkbox"/> Rain <input type="checkbox"/> Snow <input type="checkbox"/> Others () | | | |
| | Temperature | <input type="checkbox"/> Hot <input type="checkbox"/> Warm <input type="checkbox"/> Cool <input type="checkbox"/> Cold <input type="checkbox"/> Temperature [Approx. °C (°F)] | | | |
| | Relative humidity | <input type="checkbox"/> High <input type="checkbox"/> Moderate <input type="checkbox"/> Low | | | |
| Road conditions | <input type="checkbox"/> Urban area <input type="checkbox"/> Suburb area <input type="checkbox"/> Highway <input type="checkbox"/> Mountainous road (uphill or downhill) <input type="checkbox"/> Rough road | | | | |
| Operating condition, etc. | <input type="checkbox"/> Irrelevant <input type="checkbox"/> When traction motor starts <input type="checkbox"/> During idling <input type="checkbox"/> During driving <input type="checkbox"/> During acceleration <input type="checkbox"/> At constant speed driving <input type="checkbox"/> During deceleration <input type="checkbox"/> During cornering (right curve or left curve) <input type="checkbox"/> When steering wheel is steered (to right or to left) | | | | |
| Other conditions | | | | | |

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SCS

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

Interview sheet

| | | | | | |
|---------------|-------|-------------------------|--|---------------------------|------------|
| Customer name | MR/MS | Registration number | | Initial year registration | |
| | | Vehicle type | | VIN | |
| Storage date | | Engine, Trac-tion motor | | Mileage | km (Mile) |

Vehicle equipment

Memo

DYNAMIC DIGITAL SUSPENSION

< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

DYNAMIC DIGITAL SUSPENSION

Removal and Installation

INFOID:0000000013591296

Removal and installation procedure of dynamic digital suspension, refer to following list.

- 2WD: [FSU-32. "Removal and Installation"](#) (Front), [RSU-9. "Removal and Installation"](#) (Rear).
- AWD: [FSU-58. "Removal and Installation"](#) (Front), [RSU-9. "Removal and Installation"](#) (Rear).

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CHASSIS CONTROL MODULE

< REMOVAL AND INSTALLATION >

CHASSIS CONTROL MODULE

Removal and Installation

INFOID:000000013591328

Removal and installation procedure of chassis control module. Refer to [DAS-713. "Removal and Installation"](#).