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# HOW TO USE THIS MANUAL

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## HOW TO USE THIS MANUAL

### HOW TO USE THIS MANUAL

#### Description

INFOID:0000000012794339

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This volume explains "Removal, Disassembly, Installation, Inspection and Adjustment" and "Trouble Diagnoses".

#### Terms

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- The captions **WARNING** and **CAUTION** warn you of steps that must be followed to prevent personal injury and/or damage to some part of the vehicle.

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**WARNING** indicates the possibility of personal injury if instructions are not followed.

E

**CAUTION** indicates the possibility of component damage if instructions are not followed.

F

**BOLD TYPED STATEMENTS** except **WARNING** and **CAUTION** give you helpful information.

G

Standard value: Tolerance at inspection and adjustment.

H

Limit value: The maximum or minimum limit value that should not be exceeded at inspection and adjustment.

I

#### Units

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- The **UNITS** given in this manual are primarily expressed as the SI UNIT (International System of Unit), and alternatively expressed in the metric system and in the yard/pound system.

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Also with regard to tightening torque of bolts and nuts, there are descriptions both about range and about the standard tightening torque.

L

#### "Example"

M

##### Range

N

**Outer Socket Lock Nut : 59 - 78 N·m (6.0 - 8.0 kg-m, 43 - 58 ft-lb)**

O

##### Standard

P

**Drive Shaft Installation Bolt : 44.3 N·m (4.5 kg-m, 33 ft-lb)**

#### Contents

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- A QUICK REFERENCE INDEX**, a black tab (e.g. **BR**) is provided on the first page. You can quickly find the first page of each section by matching it to the section's black tab.
- THE CONTENTS** are listed on the first page of each section.
- THE TITLE** is indicated on the upper portion of each page and shows the part or system.
- THE PAGE NUMBER** of each section consists of two or three letters which designate the particular section and a number (e.g. "BR-5").
- THE SMALL ILLUSTRATIONS** show the important steps such as inspection, use of special tools, knacks of work and hidden or tricky steps which are not shown in the previous large illustrations.  
Assembly, inspection and adjustment procedures for the complicated units such as the automatic transaxle or transmission, etc. are presented in a step-by-step format where necessary.

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# HOW TO USE THIS MANUAL

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## Relation between Illustrations and Descriptions

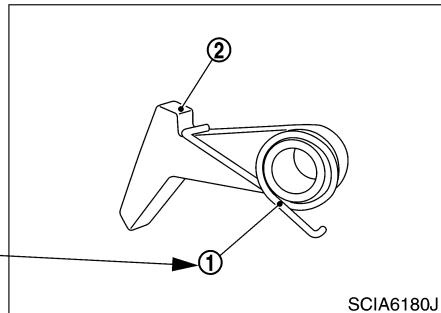
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The following sample explains the relationship between the part description in an illustration, the part name in the text and the service procedures.

< Example 1 >

1. Remove return spring ① from parking pawl ②.

The identifier number of the part name in the text is consistent with the identifier part number in the illustration.

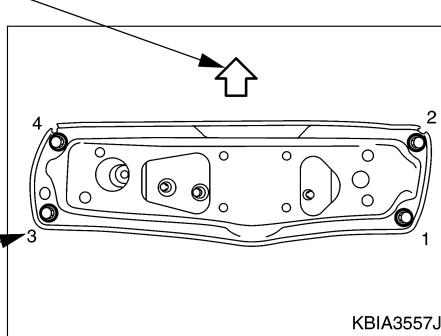


SCIA6180J

< Example 2 >

- : Vehicle front
- Tighten rear member mounting bolts following the numerical order shown in the illustration.
- Note : View upward

The numbers in the illustration are consistent with the service operation instructions.



KBIA3557J

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## Components

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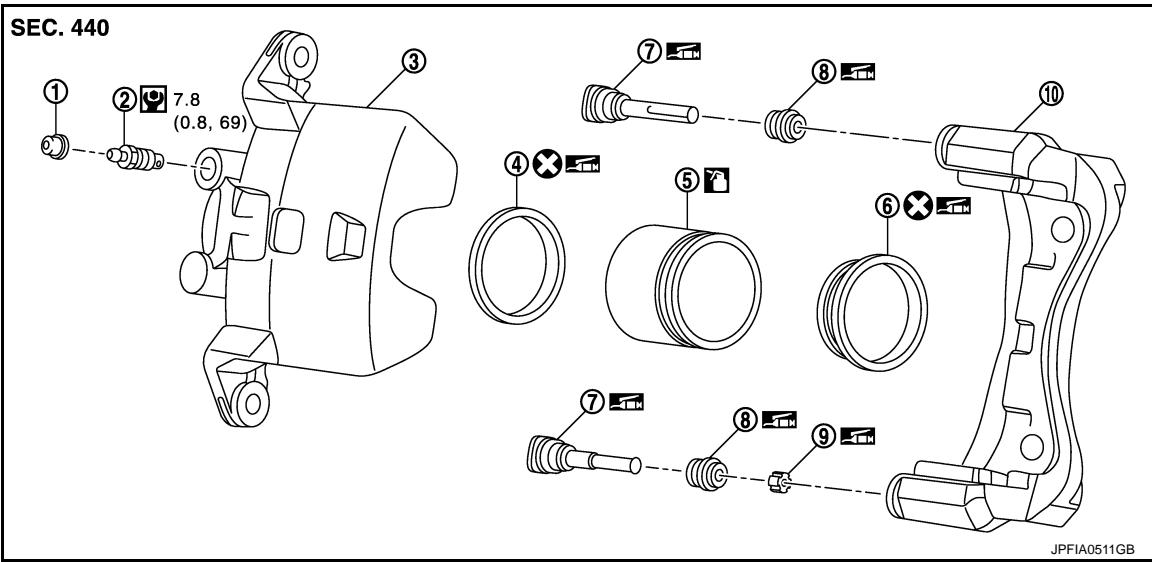
- **THE LARGE ILLUSTRATIONS** are exploded views (see the following) and contain tightening torques, lubrication points, section number of the **PARTS CATALOG** (e.g. SEC. 440) and other information necessary to perform repairs.

The illustrations should be used in reference to service matters only. When ordering parts, refer to the appropriate **PARTS CATALOG**.

Components shown in an illustration may be identified by a circled number. When this style of illustration is used, the text description of the components will follow the illustration.

# HOW TO USE THIS MANUAL

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- |                 |                    |                 |
|-----------------|--------------------|-----------------|
| ① Cap           | ② Bleeder valve    | ③ Cylinder body |
| ④ Piston seal   | ⑤ Piston           | ⑥ Piston boot   |
| ⑦ Sliding pin   | ⑧ Sliding pin boot | ⑨ Bushing       |
| ⑩ Torque member |                    |                 |

: Apply rubber grease.

: Apply brake fluid.

: N·m (kg-m, in-lb)

: Always replace after every disassembly

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## SYMBOLS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	N·m (kg-m, ft-lb) Tightening torque The tightening torque specifications of bolts and nuts may be presented as either a range or a standard tightening torque.		Always replace after every disassembly.
	N·m (kg-m, ft-lb)		Select with proper thickness.
	Should be lubricated with oil.		Adjustment is required.
	Sealing point		Direction
	Should be lubricated with grease. Unless otherwise indicated, use recommended multi-purpose grease.		Metal clip
	Apply petroleum jelly.		Clip
	Sealing point with locking sealant.		Pawl
	Apply ATF.		

# HOW TO FOLLOW TROUBLE DIAGNOSES

< HOW TO USE THIS MANUAL >

## HOW TO FOLLOW TROUBLE DIAGNOSES

### Description

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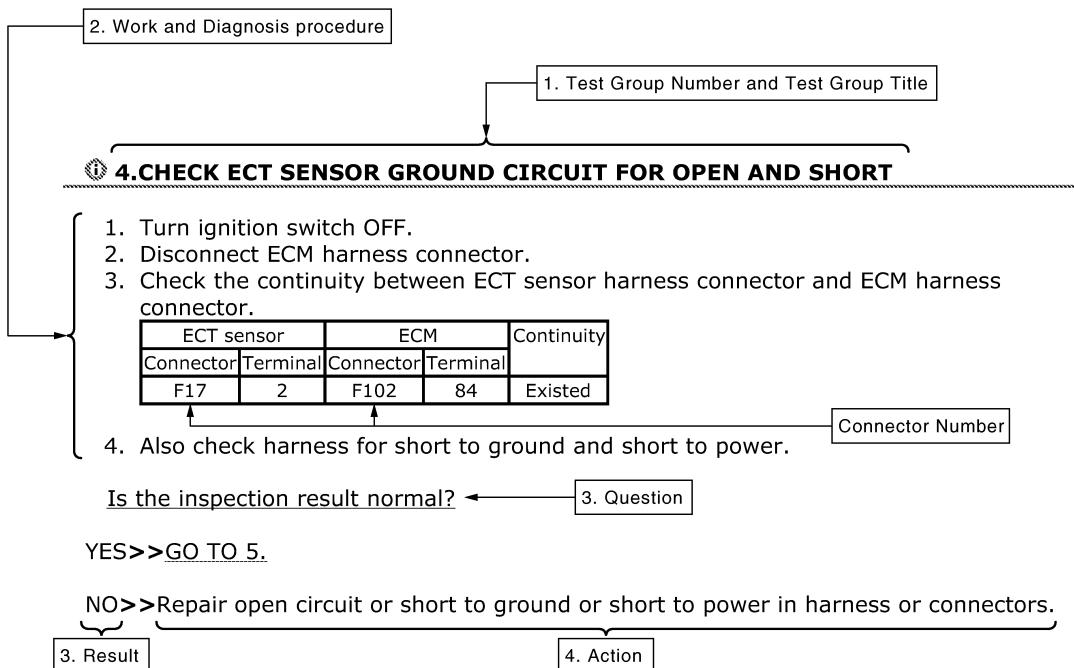
#### NOTICE:

Trouble diagnoses indicate work procedures required to diagnose problems effectively. Observe the following instructions before diagnosing.

- Before performing trouble diagnoses, read the "Work Flow" in each section.
  - After repairs, re-check that the problem has been completely eliminated.
  - Refer to Component Parts and Harness Connector Location for the Systems described in each section for identification/location of components and harness connectors.
  - When checking circuit continuity, ignition switch should be OFF.
  - Refer to the Circuit Diagram for quick pinpoint check.
- If you need to check circuit continuity between harness connectors in more detail, such as when a sub-harness is used, refer to Wiring Diagram in each individual section and Harness Layout in PG section for identification of harness connectors.
- Before checking voltage at connectors, check battery voltage.
  - After accomplishing the Diagnosis Procedures and Electrical Components Inspection, check that all harness connectors are reconnected as they were.

### How to Follow Test Groups in Trouble Diagnosis

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1. Test group number and test group title
  - Test group number and test group title are shown in the upper portion of each test group.
2. Work and diagnosis procedure
  - Start to diagnose a problem using procedures indicated in enclosed test groups.
3. Questions and results
  - Questions and required results are indicated in test group.
4. Action
  - Next action for each test group is indicated based on result of each question.

# HOW TO FOLLOW TROUBLE DIAGNOSES

< HOW TO USE THIS MANUAL >

## Key to Symbols Signifying Measurements or Procedures

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SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	Check after disconnecting the connector to be measured.		Procedure with Generic Scan Tool. (GST, OBD-II scan tool)
	Check after connecting the connector to be measured.		Procedure without CONSULT or GST
	Insert key into ignition switch.		A/C switch is "OFF".
	Remove key from ignition switch.		A/C switch is "ON".
	Insert and remove key repeatedly.		REC switch is "ON".
	Turn ignition switch to "OFF" position.		REC switch is "OFF".
	Turn ignition switch to "ACC" position.		Fan switch is "ON". (At any position except for "OFF" position)
	Turn ignition switch to "ON" position.		Fan switch is "OFF".
	Turn ignition switch to "START" position.		Apply fuse.
	Turn ignition switch from "OFF" to "ACC" position.		Apply positive voltage from battery with fuse directly to components.
	Turn ignition switch from "ACC" to "ON" position.		
	Turn ignition switch from "ACC" to "OFF" position.		

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# HOW TO FOLLOW TROUBLE DIAGNOSES

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SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	Turn ignition switch from "OFF" to "ON" position.		Drive vehicle.
	Turn ignition switch from "ON" to "OFF" position.		
	Do not start engine, or check with engine stopped.		Disconnect battery negative cable.
	Start engine, or check with engine running.		Depress brake pedal.
	Apply parking brake.		Release brake pedal.
	Release parking brake.		Depress accelerator pedal.
	Check after engine is warmed up sufficiently.		Release accelerator pedal.
	Voltage should be measured with a voltmeter.	  8 	Pin terminal check for SMJ type ECM or TCM connectors. <b>For details regarding the terminal arrangement, refer to the "ELECTRICAL UNITS" electrical reference page at the end of the manual.</b>
	Circuit resistance should be measured with an ohmmeter.		
	Current should be measured with an ammeter.		
	Pulse signal should be checked with an oscilloscope.		
	Procedure with CONSULT		
	Procedure without CONSULT		
	Place selector lever in "P" position.		
	Place selector lever in "N" position.		
	Jack up front portion.		
	Jack up rear portion.		
	Inspect under engine room.		
	Inspect under floor.		
	Inspect rear under floor.		

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# HOW TO READ WIRING DIAGRAMS

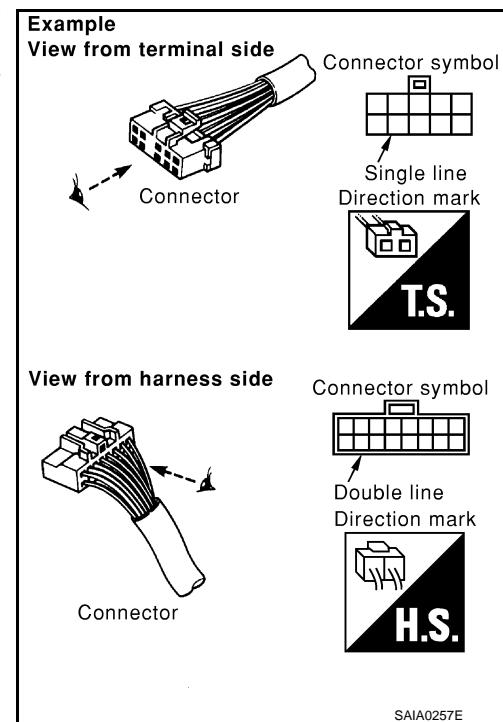
< HOW TO USE THIS MANUAL >

## HOW TO READ WIRING DIAGRAMS

### Connector Symbols

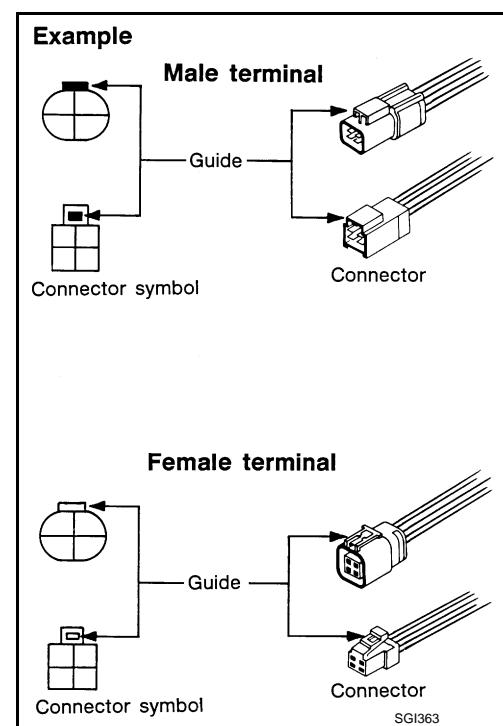
Most of connector symbols in wiring diagrams are shown from the terminal side.

- Connector symbols shown from the terminal side are enclosed by a single line and followed by the direction mark.
- Connector symbols shown from the harness side are enclosed by a double line and followed by the direction mark.
- Certain systems and components, especially those related to OBD, may use a new style slide-locking type harness connector. For description and how to disconnect, refer to PG section, "Description", "HARNESS CONNECTOR".



- Male and female terminals

Connector guides for male terminals are shown in black and female terminals in white in wiring diagrams.



# HOW TO READ WIRING DIAGRAMS

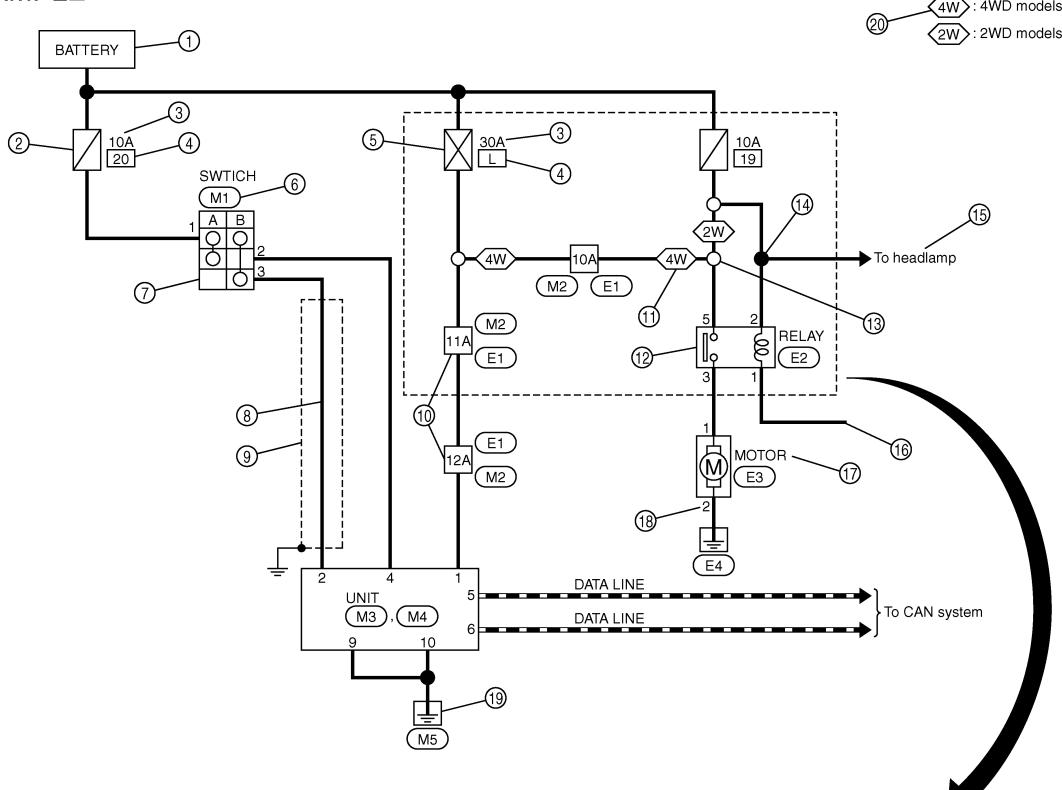
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## Sample/Wiring Diagram -Example-

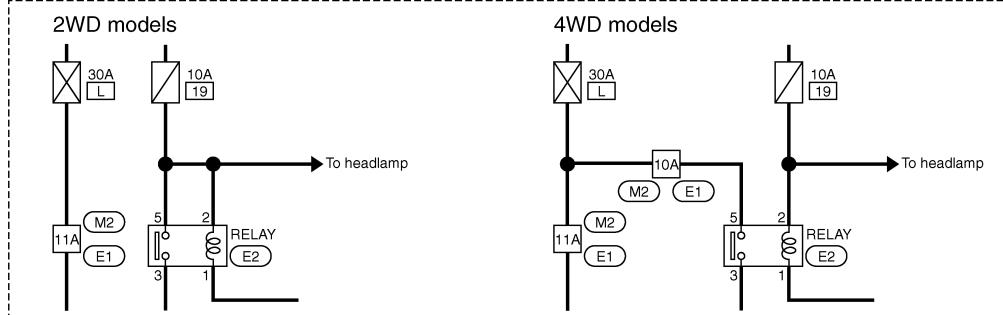
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Each section includes wiring diagrams.

### EXAMPLE



Optional splice



JRAWC3780GB

### Description

Number	Item	Description
①	Power supply	<ul style="list-style-type: none"> <li>This means the power supply of fusible link or fuse.</li> </ul>
②	Fuse	<ul style="list-style-type: none"> <li>"/" means the fuse.</li> </ul>
③	Current rating of fusible link/fuse	<ul style="list-style-type: none"> <li>This means the current rating of the fusible link or fuse.</li> </ul>
④	Number of fusible link/fuse	<ul style="list-style-type: none"> <li>This means the number of fusible link or fuse location.</li> </ul>
⑤	Fusible link	<ul style="list-style-type: none"> <li>"X" means the fusible link.</li> </ul>
⑥	Connector number	<ul style="list-style-type: none"> <li>Alphabetic characters show to which harness the connector is placed.</li> <li>Numeric characters show the identification number of connectors.</li> </ul>
⑦	Switch	<ul style="list-style-type: none"> <li>This shows that continuity exists between terminals 1 and 2 when the switch is in the A position. Continuity exists between terminals 1 and 3 when the switch is in the B position.</li> </ul>
⑧	Circuit (Wiring)	<ul style="list-style-type: none"> <li>This means the wiring.</li> </ul>

# HOW TO READ WIRING DIAGRAMS

< HOW TO USE THIS MANUAL >

Number	Item	Description
⑨	Shielded line	• The line enclosed by broken line circle shows shield wire.
⑩	Connectors	• This means that a transmission line bypasses two connectors or more.
⑪	Option abbreviation	• This means the vehicle specifications which layouts the circuit between “O”.
⑫	Relay	• This shows an internal representation of the relay.
⑬	Optional splice	• The open circle shows that the splice is optional depending on vehicle application.
⑭	Splice	• The shaded circle “●” means the splice.
⑮	System branch	• This shows that the circuit is branched to other systems.
⑯	Page crossing	• This circuit continues to an adjacent page.
⑰	Component name	• This shows the name of a component.
⑱	Terminal number	• This means the terminal number of a connector.
⑲	Ground (GND)	• This shows the ground connection.
⑳	Explation of option de- scription	• This shows a description of the option abbreviation used on the page.

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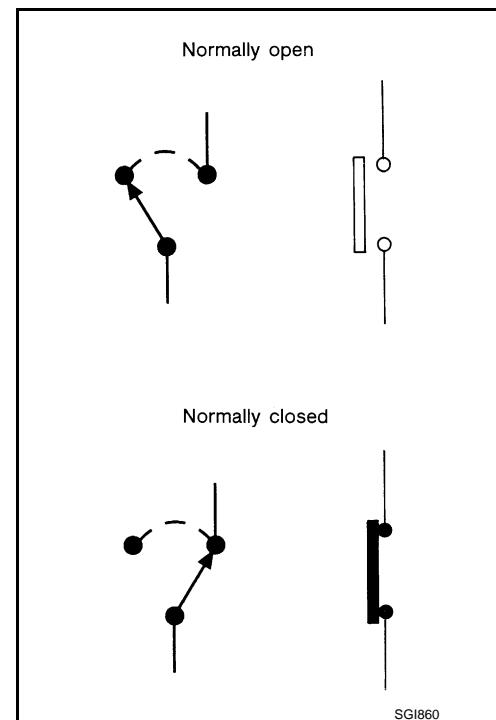
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## SWITCH POSITIONS

Switches are shown in wiring diagrams as if the vehicle is in the “normal” condition.

A vehicle is in the “normal” condition when:

- ignition switch is “OFF”
- doors, hood and trunk lid/back door are closed
- pedals are not depressed
- parking brake is released



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## MULTIPLE SWITCH

The continuity of multiple switch is described in two ways as shown below.

- The switch chart is used in schematic diagrams.

# HOW TO READ WIRING DIAGRAMS

## < HOW TO USE THIS MANUAL >

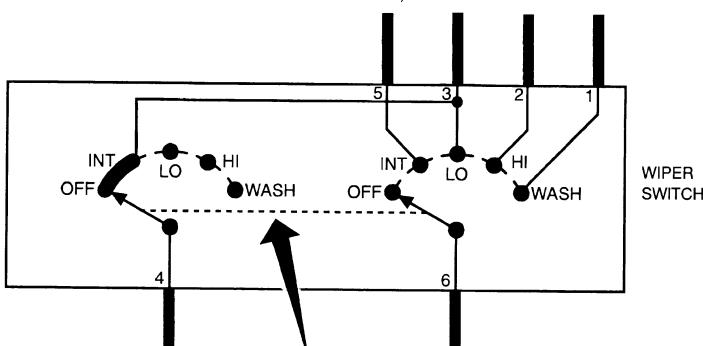
- The switch diagram is used in wiring diagrams.

### Example

(SWITCH CHART)

	OFF	INT	LO	HI	WASH
1					
2					
3	○	○	○		
4	○	○			
5		○			
6	○	○	○		

(SWITCH DIAGRAM)



Continuity circuit of wiper switch

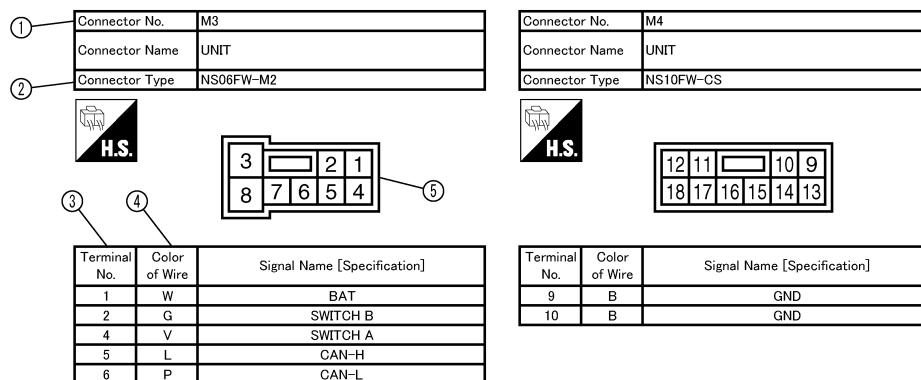
SWITCH POSITION	CONTINUITY CIRCUIT
OFF	3 - 4
INT	3 - 4, 5 - 6
LO	3 - 6
HI	2 - 6
WASH	1 - 6

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## Connector Information

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## HOW TO USE CONNECTOR INFORMATION



JCAWA0152GB

# HOW TO READ WIRING DIAGRAMS

< HOW TO USE THIS MANUAL >

Description																					
Number	Item	Description	GI																		
①	Connector number	<ul style="list-style-type: none"> <li>Alphabetic characters show to which harness the connector is placed.</li> <li>Numeric characters show the identification number of connectors.</li> </ul>	B C D E																		
②	Connector type	<p>①: Connector model          ②: Cavity          ③: Male (M) and female (F) terminals          ④: Connector color          ⑤: Special type</p> <p>Example:</p> <p>JPMIA0113GB</p>	F G H I																		
③	Terminal number	<ul style="list-style-type: none"> <li>This means the terminal number of a connector.</li> </ul>	J K L M N O P																		
④	Wire color	<p>• This shows a code for the color of the wire.</p> <table> <tbody> <tr> <td>B = Black</td> <td>BR = Brown</td> </tr> <tr> <td>W = White</td> <td>OR or O = Orange</td> </tr> <tr> <td>R = Red</td> <td>P = Pink</td> </tr> <tr> <td>G = Green</td> <td>PU or V (Violet) = Purple</td> </tr> <tr> <td>L = Blue</td> <td>GY or GR = Gray</td> </tr> <tr> <td>Y = Yellow</td> <td>SB = Sky Blue</td> </tr> <tr> <td>LG = Light Green</td> <td>CH = Dark Brown</td> </tr> <tr> <td>BG or BE = Beige</td> <td>DG = Dark Green</td> </tr> <tr> <td>LA = Lavender</td> <td></td> </tr> </tbody> </table> <p>• When the wire color is striped, the base color is given first, followed by the stripe color as shown below:          Example: L/W = Blue with White Stripe</p>	B = Black	BR = Brown	W = White	OR or O = Orange	R = Red	P = Pink	G = Green	PU or V (Violet) = Purple	L = Blue	GY or GR = Gray	Y = Yellow	SB = Sky Blue	LG = Light Green	CH = Dark Brown	BG or BE = Beige	DG = Dark Green	LA = Lavender		
B = Black	BR = Brown																				
W = White	OR or O = Orange																				
R = Red	P = Pink																				
G = Green	PU or V (Violet) = Purple																				
L = Blue	GY or GR = Gray																				
Y = Yellow	SB = Sky Blue																				
LG = Light Green	CH = Dark Brown																				
BG or BE = Beige	DG = Dark Green																				
LA = Lavender																					
⑤	Connector	<ul style="list-style-type: none"> <li>This means the connector information.</li> <li>This unit-side is described by the connector symbols.</li> </ul>																			

# ABBREVIATIONS

< HOW TO USE THIS MANUAL >

## ABBREVIATIONS

### Abbreviation List

INFOID:0000000012794351

The following **ABBREVIATIONS** are used:

A

ABBREVIATION	DESCRIPTION
A/C	Air conditioner
A/C	Air conditioning
ADCM	AdBlue® dosing control module
A/F sensor	Air fuel ratio sensor
A/T	Automatic transaxle/transmission
ABS	Anti-lock braking system
ACCS	Advance climate control system
ACL	Air cleaner
AP	Accelerator pedal
APP	Accelerator pedal position
ATF	Automatic transmission fluid
AV	Audio visual
AWD	All wheel drive

**NOTE:**

AdBlue® is the registered trademark of the Verband der Automobilindustrie e.V. (VDA).

B

ABBREVIATION	DESCRIPTION
BARO	Barometric pressure
BCI	Back-up collision intervention
BCM	Body control module
BLSD	Brake limited slip differential
BPP	Brake pedal position
BSW	Blind spot warning

C

ABBREVIATION	DESCRIPTION
CKP	Crankshaft position
CL	Closed loop
CMP	Camshaft position
CPP	Clutch pedal position
CTP	Closed throttle position
CVT	Continuously variable transaxle/transmission

D

ABBREVIATION	DESCRIPTION
D1	Drive range first gear
D2	Drive range second gear
D3	Drive range third gear
D4	Drive range fourth gear
DCA	Distance control assist
DDS	Downhill drive support
DFI	Direct fuel injection system

# ABBREVIATIONS

< HOW TO USE THIS MANUAL >

ABBREVIATION	DESCRIPTION	
DLC	Data link connector	GI
DTC	Diagnostic trouble code	
E		B
ABBREVIATION	DESCRIPTION	
E/T	Exhaust temperature	C
EBD	Electric brake force distribution	D
EC	Engine control	E
ECL	Engine coolant level	F
ECM	Engine control module	G
ECT	Engine coolant temperature	H
ECV	Electrical control valve	I
EEPROM	Electrically erasable programmable read only memory	J
EFT	Engine fuel temperature	K
EGR	Exhaust gas recirculation	L
EGRT	Exhaust gas recirculation temperature	M
EGT	Exhaust gas temperature	N
EOP	Engine oil pressure	O
EP	Exhaust pressure	P
EPR	Exhaust pressure regulator	
EPS	Electronically controlled power steering	
	Electric power steering	
ESP	Electronic stability program system	
EVAP canister	Evaporative emission canister	
EVSE	Electric vehicle supply equipment	
EXC	Exhaust control	
F		
ABBREVIATION	DESCRIPTION	
FC	Fan control	
FCW	Forward collision warning	
FEB	Forward emergency braking	
FIC	Fuel injector control	
FP	Fuel pump	
FR	Front	
FRP	Fuel rail pressure	
FRT	Fuel rail temperature	
FTP	Fuel tank pressure	
FTT	Fuel tank temperature	
G		
ABBREVIATION	DESCRIPTION	
GND	Ground	
GPS	Global positioning system	
GST	Generic scan tool	

## ABBREVIATIONS

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ABBREVIATION		DESCRIPTION
HBMC	Hydraulic body-motion control system	
HDD	Hard disk drive	
HO2S	Heated oxygen sensor	
HOC	Heated oxidation catalyst	
HPCM	Hybrid power train control module	
<hr/>		
ABBREVIATION		DESCRIPTION
I/M	Inspection and maintenance	
IA	Intake air	
IAC	Idle air control	
IAT	Intake air temperature	
IBA	Intelligent brake assist	
IC	Ignition control	
ICC	Intelligent cruise control	
ICM	Ignition control module	
IPDM E/R	Intelligent power distribution module engine room	
ISC	Idle speed control	
ISS	Input shaft speed	
<hr/>		
K	ABBREVIATION	DESCRIPTION
KS	Knock sensor	
<hr/>		
L	ABBREVIATION	DESCRIPTION
LBC	Li-ion battery controller	
LCD	Liquid crystal display	
LCU	Local control unit	
LDP	Lane departure prevention	
LDW	Lane departure warning	
LED	Light emitting diode	
LH	Left-hand	
LIN	Local interconnect network	
<hr/>		
M	ABBREVIATION	DESCRIPTION
M/T	Manual transaxle/transmission	
MAF	Mass airflow	
MAP	Manifold absolute pressure	
MDU	Multi display unit	
MI	Malfunction indicator	
MIL	Malfunction indicator lamp	
<hr/>		
N	ABBREVIATION	DESCRIPTION
NOX	Nitrogen oxides	

## ABBREVIATIONS

< HOW TO USE THIS MANUAL >

O	ABBREVIATION	DESCRIPTION	GI
	O2	Oxygen	B
	O2S	Oxygen sensor	C
	OBD	On board diagnostic	D
	OC	Oxidation catalytic converter	E
	OD	Overdrive	F
	OL	Open loop	G
	OSS	Output shaft speed	H
P	ABBREVIATION	DESCRIPTION	I
	P/S	Power steering	J
	PBR	Potentio balance resistor	K
	PCV	Positive crankcase ventilation	L
	PFCW	Predictive forward collision warning	M
	PNP	Park/Neutral position	N
	PSP	Power steering pressure	O
	PTC	Positive temperature coefficient	P
	PTO	Power takeoff	
	PWM	Pulse width modulation	
R	ABBREVIATION	DESCRIPTION	
	RAM	Random access memory	
	RAS	Rear active steer	
	RH	Right-hand	
	ROM	Read only memory	
	RPM	Engine speed	
	RR	Rear	
S	ABBREVIATION	DESCRIPTION	
	SAE	Society of Automotive Engineers, Inc.	
	SCK	Serial clock	
	SCR	Selective Catalytic Reduction	
	SDS	Service Data and Specifications	
	SRT	System readiness test	
	SST	Special Service Tools	
T	ABBREVIATION	DESCRIPTION	
	TC	Turbocharger	
	TCM	Transmission control module	
	TCS	Traction control system	
	TCU	Telematics communication unit	
	TP	Throttle position	
	TPMS	Tire pressure monitoring system	
	TSS	Turbine shaft speed	
	TWC	Three way catalytic converter	

## ABBREVIATIONS

< HOW TO USE THIS MANUAL >

ABBREVIATION		DESCRIPTION
USS		Uphill start support
V		
ABBREVIATION		DESCRIPTION
VCM		Vehicle control module
VDC		Vehicle dynamics control system
VIN		Vehicle identification number
VSS		Vehicle speed sensor
W		
ABBREVIATION		DESCRIPTION
WOT		Wide open throttle
1	ABBREVIATION	
	11	1st range first gear
	12	1st range second gear
	1GR	First gear
2	ABBREVIATION	
	21	2nd range first gear
	22	2nd range second gear
	2GR	Second gear
	2WD	2-wheel drive
3	ABBREVIATION	
	3GR	Third gear
4	ABBREVIATION	
	4GR	Fourth gear
	4WAS	Four wheel active steer
	4WD	Four wheel drive
5	ABBREVIATION	
	5GR	Fifth gear
6	ABBREVIATION	
	6GR	Sixth gear
7	ABBREVIATION	
	7GR	Seventh gear

# TIGHTENING TORQUE OF STANDARD BOLTS

< HOW TO USE THIS MANUAL >

## TIGHTENING TORQUE OF STANDARD BOLTS

GI

### Description

INFOID:0000000012794352

This vehicle has both new standard based on ISO\* and previous standard bolts/nuts. There are some differences between these two types of bolts/ nuts; shape of the head, grade of strength, hexagonal width across flats and the standard tightening torque.

- For guidance in discriminating, refer to [GI-19, "Tightening Torque Table \(New Standard Included\)".](#)
- The new standard machine screws and tapping screws have a head of ISO standard torx recess.
- If the tightening torque is not described in the description or figure, refer to [GI-19, "Tightening Torque Table \(New Standard Included\)".](#)

\*ISO: International Organization for Standardization

### Tightening Torque Table (New Standard Included)

INFOID:0000000012794353

#### CAUTION:

- The special parts are excluded.
- The bolts/nuts in these tables have a strength (discrimination) number/symbol assigned to the head or the like. As to the relation between the strength grade in these tables and the strength (discrimination) number/symbol, refer to "DISCRIMINATION OF BOLTS AND NUTS".

### PREVIOUS STANDARD

Grade (Strength grade)	Bolt size	Bolt di- ameter mm	Hexagonal width across flats mm	Pitch mm	Tightening torque (Without lubricant)							
					Hexagon head bolt				Hexagon flange bolt			
					N·m	kg-m	ft-lb	in-lb	N·m	kg-m	ft-lb	in-lb
4T	M6	6.0	10	1.0	5.5	0.56	4	49	7	0.71	5	62
	M8	8.0	12	1.25	13.5	1.4	10	—	17	1.7	13	—
				1.0	13.5	1.4	10	—	17	1.7	13	—
	M10	10.0	14	1.5	28	2.9	21	—	35	3.6	26	—
				1.25	28	2.9	21	—	35	3.6	26	—
	M12	12.0	17	1.75	45	4.6	33	—	55	5.6	41	—
				1.25	45	4.6	33	—	65	6.6	48	—
	M14	14.0	19	1.5	80	8.2	59	—	100	10	74	—
	7T	M6	6.0	10	1.0	9	0.92	7	80	11	1.1	8
		M8	8.0	12	1.25	22	2.2	16	—	28	2.9	21
					1.0	22	2.2	16	—	28	2.9	21
		M10	10.0	14	1.5	45	4.6	33	—	55	5.6	41
					1.25	45	4.6	33	—	55	5.6	41
		M12	12.0	17	1.75	80	8.2	59	—	100	10	74
					1.25	80	8.2	59	—	100	10	74
		M14	14.0	19	1.5	130	13	96	—	170	17	125
		9T	M6	6.0	10	1.0	11	1.1	8	—	13.5	1.4
			M8	8.0	12	1.25	28	2.9	21	—	35	3.6
						1.0	28	2.9	21	—	35	3.6
			M10	10.0	14	1.5	55	5.6	41	—	80	8.2
						1.25	55	5.6	41	—	80	8.2
			M12	12.0	17	1.75	100	10	74	—	130	13
						1.25	100	10	74	—	130	13
			M14	14.0	19	1.5	170	17	125	—	210	21

#### CAUTION:

# TIGHTENING TORQUE OF STANDARD BOLTS

< HOW TO USE THIS MANUAL >

**The parts with aluminum or the cast iron washer surface/thread surface are excluded.**

**NEW STANDARD BASED ON ISO**

Grade (Strength grade)	Bolt size	Bolt di- ameter mm	Hexagonal width across flats mm	Pitch mm	Tightening torque							
					Hexagon head bolt				Hexagon flange bolt			
					N·m	kg-m	ft-lb	in-lb	N·m	kg-m	ft-lb	in-lb
4.8 (Without lubricant)	M6	6.0	10	1.0	5.5	0.56	4	49	7	0.71	5	62
	M8	8.0	13	1.25	13.5	1.4	10	—	17	1.7	13	—
				1.0	13.5	1.4	10	—	17	1.7	13	—
	M10	10.0	16	1.5	28	2.9	21	—	35	3.6	26	—
				1.25	28	2.9	21	—	35	3.6	26	—
	M12	12.0	18	1.75	45	4.6	33	—	55	5.6	41	—
				1.25	45	4.6	33	—	65	6.6	48	—
	M14	14.0	21	1.5	80	8.2	59	—	100	10	74	—
4.8 (With lu- bricant)	M6	6.0	10	1.0	4	0.41	3	35	5.5	0.56	4	49
	M8	8.0	13	1.25	11	1.1	8	—	13.5	1.4	10	—
				1.0	11	1.1	8	—	13.5	1.4	10	—
	M10	10.0	16	1.5	22	2.2	16	—	28	2.9	21	—
				1.25	22	2.2	16	—	28	2.9	21	—
	M12	12.0	18	1.75	35	3.6	26	—	45	4.6	33	—
				1.25	35	3.6	26	—	45	4.6	33	—
	M14	14.0	21	1.5	65	6.6	48	—	80	8.2	59	—
8.8 (With lu- bricant)	M6	6.0	10	1.0	8	0.82	6	71	10	1.0	7	89
	M8	8.0	13	1.25	21	2.1	15	—	25	2.6	18	—
				1.0	21	2.1	15	—	25	2.6	18	—
	M10	10.0	16	1.5	40	4.1	30	—	50	5.1	37	—
				1.25	40	4.1	30	—	50	5.1	37	—
	M12	12.0	18	1.75	70	7.1	52	—	85	8.7	63	—
				1.25	70	7.1	52	—	85	8.7	63	—
	M14	14.0	21	1.5	120	12	89	—	140	14	103	—
10.9 (With lu- bricant)	M6	6.0	10	1.0	10	1.0	7	89	12	1.2	9	106
	M8	8.0	13	1.25	27	2.8	20	—	32	3.3	24	—
				1.0	27	2.8	20	—	32	3.3	24	—
	M10	10.0	16	1.5	55	5.6	41	—	65	6.6	48	—
				1.25	55	5.6	41	—	65	6.6	48	—
	M12	12.0	18	1.75	95	9.7	70	—	110	11	81	—
				1.25	95	9.7	70	—	110	11	81	—
	M14	14.0	21	1.5	160	16	118	—	180	18	133	—

**CAUTION:**

1. Use tightening torque with lubricant for the new standard bolts/nuts in principle. Friction coefficient stabilizer is applied to the new standard bolts/nuts.
2. However, use tightening torque without lubricant for the following cases. Friction coefficient stabilizer is not applied to the following bolts/nuts.
  - Grade 4.8, M6 size bolt, Conical spring washer installed
  - Paint removing nut (Size M6 and M8) for fixing with weld bolt

# TIGHTENING TORQUE OF STANDARD BOLTS

< HOW TO USE THIS MANUAL >

## DISCRIMINATION OF BOLTS AND NUTS

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### BOLTS

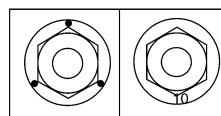
	Grade (Strength)	Discrimination	
Previous standard	4T (392N/mm <sup>2</sup> )		
	7T (686N/mm <sup>2</sup> )		
	9T (883N/mm <sup>2</sup> )		
New Standard	4.8 (420N/mm <sup>2</sup> )		
	8.8 (800N/mm <sup>2</sup> )		
	10.9 (1040N/mm <sup>2</sup> )		

### NUTS

	Grade (Proof load stress)	Discrimination		
Previous standard	7N (686N/mm <sup>2</sup> )			
	9N (883N/mm <sup>2</sup> )			
New Standard	8 (800N/mm <sup>2</sup> )			
	10 (1040N/mm <sup>2</sup> )			

#### NOTICE:

- A number is assigned on the side of the nuts in some cases.
- A number or symbol is assigned on the upper surface of the flange for the nut with flange.



### MACHINE SCREWS AND TAPPING SCREWS

Shape of the head :

Cross recess for the previous standard

Torx recess for the new standard

Screw size	Screw diameter	Torx size
M4	4.0	T20
M5	5.0	T20
M6	6.0	T30

#### NOTICE:

Use torx size T20 (united with M4 screw) for M5 screw although ISO standard specifies T25.

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# RECOMMENDED CHEMICAL PRODUCTS AND SEALANTS

< HOW TO USE THIS MANUAL >

## RECOMMENDED CHEMICAL PRODUCTS AND SEALANTS

### Recommended Chemical Products and Sealants

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Refer to the following chart for help in selecting the appropriate chemical product or sealant.

	Product Description	Purpose	Nissan North America Part No. (USA)	Nissan Canada Part No. (Canada)	Aftermarket Cross-reference Part Nos.
1	Rear View Mirror Adhesive	Used to permanently re-mount rear view mirrors to windows.	999MP-AM000P	99998-50505	Permatex 81844
2	Anaerobic Liquid Gasket	For metal-to-metal flange sealing. Can fill a 0.38 mm (0.015 inch) gap and provide instant sealing for most powertrain applications.	999MP-AM001P	99998-50503	Permatex 51813 and 51817
3	High Performance Thread Sealant	Provides instant sealing on any threaded straight or parallel threaded fitting. (Thread sealant only, no locking ability.) • Do not use on plastic.	999MP-AM002P	999MP-AM002P	Permatex 56521
4	Silicone RTV	Gasket Maker	999MP-AM003P (Ultra Grey)	99998-50506 (Ultra Grey)	Permatex Ultra Grey 82194; Three Bond 1207, 1215, 1216, 1217F, 1217G and 1217H Nissan RTV Part No. 999MP-A7007
		Gasket Maker for Maxima/Quest 5-speed automatic transmission (RE5F22A)	–	–	Three Bond 1281B or exact equivalent in its quality
5	High Temperature, High Strength Thread Locking Sealant (Red)	Threadlocker	999MP-AM004P	999MP-AM004P	Permatex 27200; Three Bond 1360, 1360N, 1305 N&P, 1307N, 1335, 1335B, 1363B, 1377C, 1386B, D&E and 1388 Loctite 648
6	Medium Strength Thread Locking Sealant (Blue)	Threadlocker (service tool removable)	999MP-AM005P	999MP-AM005P	Permatex 24200, 24206, 24240, 24283 and 09178; Three Bond 1322, 1322N, 1324 D&N, 1333D, 1361C, 1364D, 1370C and 1374

## PRECAUTIONS

< PRECAUTION >

# PRECAUTION

## PRECAUTIONS

GI

### Description

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B

Observe the following precautions to ensure safe and proper servicing. These precautions are not described in each individual section.

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

INFOID:000000013496615

C

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.

D

#### **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.

E

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

F

#### **WARNING:**

Always observe the following items for preventing accidental activation.

G

- 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.

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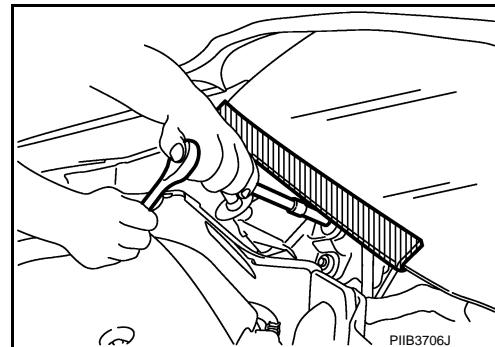
### Precaution for Procedure without Cowl Top Cover

INFOID:000000013496616

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When performing the procedure after removing cowl top cover, cover the lower end of windshield with urethane, etc to prevent damage to windshield.

J



K

### Precautions for Performing 2-wheel Drive Test

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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).

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# PRECAUTIONS

## < PRECAUTION >

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

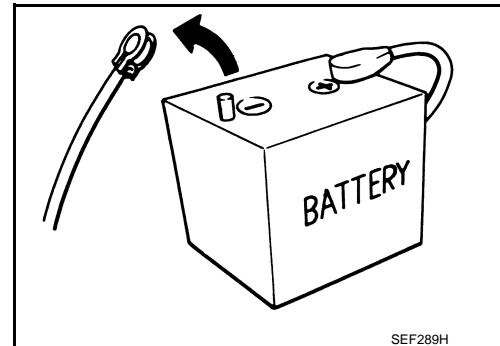
### Precautions for Removing Battery Terminal

INFOID:0000000013496626

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



#### NOTE:

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

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

#### NOTE:

- Turbocharger cooling pump may operate in a few minutes after the ignition switch is turned OFF.
- Example of high-load driving
  - Driving for 30 minutes or more at 140 km/h (86 MPH) or more.
  - Driving for 30 minutes or more on a steep slope.
- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.

#### NOTE:

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

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

#### NOTE:

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

### Precautions for Jump Starting (2.0L Turbo Gasoline Engine Models)

INFOID:0000000013496613

Vehicles equipped with the stop/start system have two batteries.

For power supply from another vehicle by using a booster cable, the connecting method depends on the type of discharged battery.

#### WHEN MAIN BATTERY IS DISCHARGED

1. Connect booster cable to the positive terminal of discharged battery and connect the booster cable to the positive terminal of the other vehicle (normal battery).
2. Connect booster cable to the negative terminal of the other vehicle (normal battery) and connect the booster cable to the engine of the malfunctioning vehicle.

#### CAUTION:

Note the following descriptions to prevent damage to parts.

- Check the battery polarity to properly connect booster cable.
- The other vehicle must be a model equipped with a 12 V battery.

#### WHEN SUB BATTERY IS DISCHARGED

#### NOTE:

When the engine cannot be jump-started with the main battery, the sub battery is used to jump-start the engine.

1. Connect booster cable to the positive terminal of discharged battery and connect the booster cable to the positive terminal of the other vehicle (normal battery).

# PRECAUTIONS

## < PRECAUTION >

2. Connect booster cable to the negative terminal of the other vehicle (normal battery) and connect the booster cable to the negative terminal of the malfunctioning vehicle.

GI

### CAUTION:

Note the following descriptions to prevent damage to parts.

- Check the battery polarity to properly connect booster cable.
- The other vehicle must be a model equipped with a 12 V battery.

B

## WHEN MAIN BATTER AND SUB BATTERY ARE DISCHARGED

### NOTE:

When the engine cannot be jump-started with the main battery or sub battery, both main battery and sub battery are used to jump-start the engine.

C

When both main battery and sub battery are discharged, use two sets of booster cables.

D

1. Connect a booster cable included in one of the booster cable sets to the positive terminal of discharged main battery and connect the booster cable to the positive terminal of the other vehicle (normal battery).
2. Connect a booster cable included in the other booster cable set to the positive terminal of sub battery and connect the booster cable to the positive terminal of the other vehicle (normal battery).
3. Connect a booster cable included in one of the cable sets to the negative terminal of the other vehicle (normal battery) and connect the booster cable to the engine of the malfunctioning vehicle.
4. Connect a booster cable included in the other booster cable set to the negative terminal of the other vehicle (normal battery) and connect the booster cable to the sub battery of the malfunctioning vehicle.

E

### CAUTION:

Note the following descriptions to prevent damage to parts.

F

- Never connect main battery and sub battery in series with booster cable.
- Check the battery polarity to properly connect booster cable.
- The other vehicle must be a model equipped with a 12 V battery.

G

## General Precautions

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H

- Do not operate the engine for an extended period of time without proper exhaust ventilation.

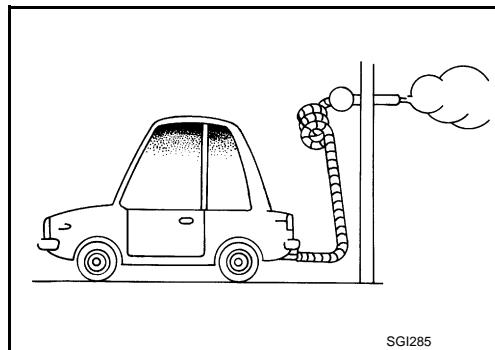
I

Keep the work area well ventilated and free of any inflammable materials. Special care should be taken when handling any inflammable or poisonous materials, such as gasoline, refrigerant gas, etc. When working in a pit or other enclosed area, be sure to properly ventilate the area before working with hazardous materials.

J

Do not smoke while working on the vehicle.

K



SGI285

L

- Before jacking up the vehicle, apply wheel chocks or other tire blocks to the wheels to prevent the vehicle from moving. After jacking up the vehicle, support the vehicle weight with safety stands at the points designated for proper lifting before working on the vehicle.

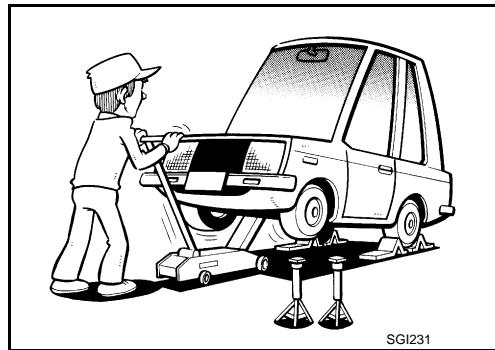
M

These operations should be done on a level surface.

N

- When removing a heavy component such as the engine or transaxle/transmission, be careful not to lose your balance and drop them. Also, do not allow them to strike adjacent parts, especially the brake tubes and master cylinder.

O



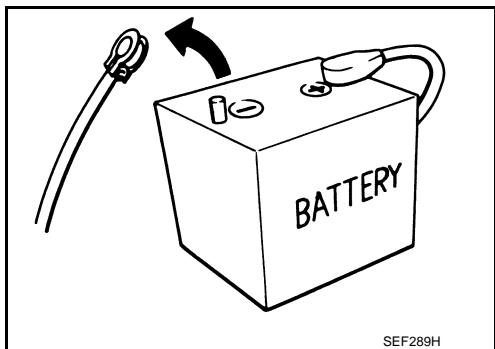
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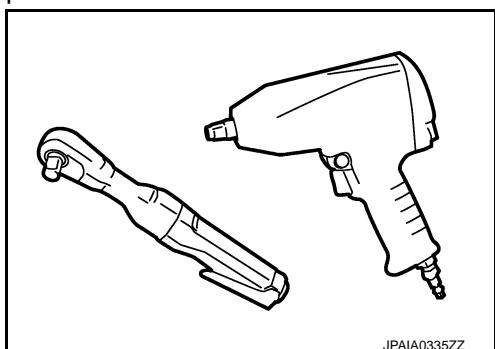
## PRECAUTIONS

### < PRECAUTION >

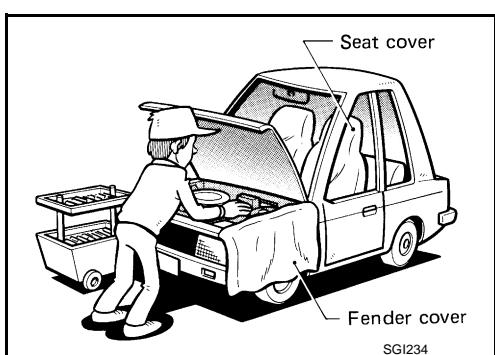
- Before starting repairs which do not require battery power:  
Turn off ignition switch.  
Disconnect the negative battery terminal.
- If the battery terminals are disconnected, recorded memory of radio and each control unit is erased.



- To prevent serious burns:  
Avoid contact with hot metal parts.  
Do not remove the radiator cap when the engine is hot.
- Dispose of drained oil or the solvent used for cleaning parts in an appropriate manner.
- Do not attempt to top off the fuel tank after the fuel pump nozzle shuts off automatically.  
Continued refueling may cause fuel overflow, resulting in fuel spray and possibly a fire.
- Clean all disassembled parts in the designated liquid or solvent prior to inspection or assembly.
- Replace oil seals, gaskets, packings, O-rings, locking washers, cotter pins, self-locking nuts, etc. with new ones.
- Replace inner and outer races of tapered roller bearings and needle bearings as a set.
- Arrange the disassembled parts in accordance with their assembled locations and sequence.
- Do not touch the terminals of electrical components which use microcomputers (such as ECM).  
Static electricity may damage internal electronic components.
- After disconnecting vacuum or air hoses, attach a tag to indicate the proper connection.
- Use only the fluids and lubricants specified in this manual.
- Use approved bonding agent, sealants or their equivalents when required.
- Use hand tools, power tools (disassembly only) and recommended special tools where specified for safe and efficient service repairs.
- When repairing the fuel, oil, water, vacuum or exhaust systems, check all affected lines for leakage.



- Before servicing the vehicle:  
Protect fenders, upholstery and carpeting with appropriate covers.  
Take caution that keys, buckles or buttons do not scratch paint.



### **WARNING:**

To prevent ECM from storing the diagnostic trouble codes, never carelessly disconnect the harness connectors which are related to the engine control system and TCM (transmission control module)

# PRECAUTIONS

## < PRECAUTION >

system. The connectors should be disconnected only when working according to the WORK FLOW of TROUBLE DIAGNOSES in EC and TM sections.

GI

## Three Way Catalyst

INFOID:0000000012794361

If a large amount of unburned fuel flows into the catalyst, the catalyst temperature will be excessively high. To prevent this, follow the instructions.

- Use unleaded gasoline only. Leaded gasoline will seriously damage the three way catalyst.
- When checking for ignition spark or measuring engine compression, make tests quickly and only when necessary.
- Do not run engine when the fuel tank level is low, otherwise the engine may misfire, causing damage to the catalyst.

Do not place the vehicle on flammable material. Keep flammable material off the exhaust pipe and the three way catalyst.

## Multipoint Fuel Injection System or Engine Control System

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- Before connecting or disconnecting any harness connector for the multipoint fuel injection system or ECM:  
Turn ignition switch to "OFF" position.  
Disconnect negative battery terminal.  
Otherwise, there may be damage to ECM.
- Before disconnecting pressurized fuel line from fuel pump to injectors, be sure to release fuel pressure.
- Be careful not to jar components such as ECM and mass air flow sensor.



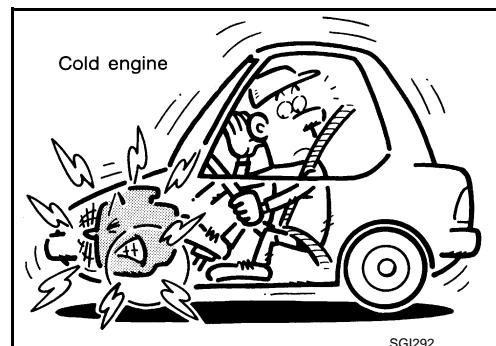
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## Turbocharger

INFOID:0000000013473359

The turbocharger turbine revolves at extremely high speeds and becomes very hot. Therefore, it is essential to maintain a clean supply of oil flowing through the turbocharger and to follow all required maintenance instructions and operating procedures.

- Always use the recommended oil. Follow the instructions for proper time to change the oil and proper oil level.
- Avoid accelerating engine to a high rpm immediately after starting.
- If engine had been operating at high rpm for an extended period of time, let it idle for a few minutes prior to shutting if off.



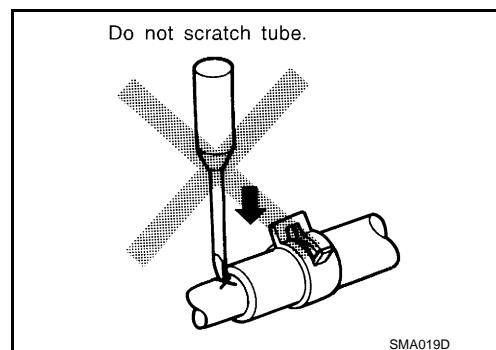
SGI292

## Hoses

INFOID:0000000012794363

### HOSE REMOVAL AND INSTALLATION

- To prevent damage to rubber hose, do not pry off rubber hose with tapered tool or screwdriver.

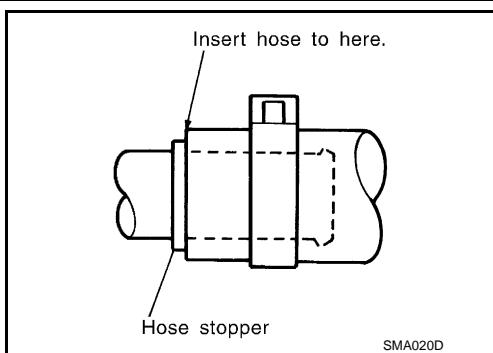


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## PRECAUTIONS

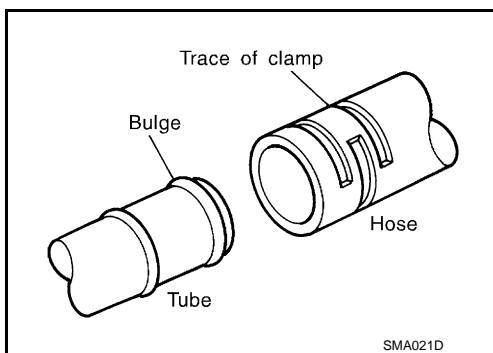
### < PRECAUTION >

- To reinstall the rubber hose securely, check that hose insertion length and orientation is correct. (If tube is equipped with hose stopper, insert rubber hose into tube until it butts up against hose stopper.)

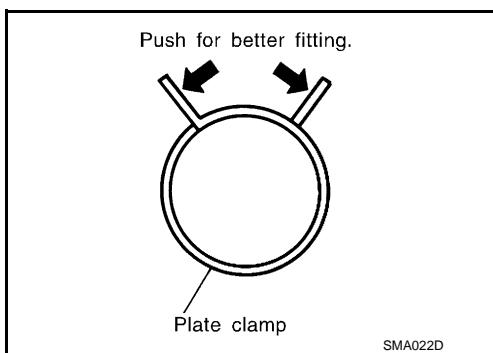


### HOSE CLAMPING

- If old rubber hose is re-used, install hose clamp in its original position (at the indentation where the old clamp was). If there is a trace of tube bulging left on the old rubber hose, align rubber hose at that position.
- Discard old clamps; replace with new ones.



- After installing plate clamps, apply force to them in the direction of the arrow, tightening rubber hose equally all around.



## Engine Oils

INFOID:000000012794364

Prolonged and repeated contact with used engine oil may cause skin cancer. Try to avoid direct skin contact with used oil.

If skin contact is made, wash thoroughly with soap or hand cleaner as soon as possible.

### HEALTH PROTECTION PRECAUTIONS

- Avoid prolonged and repeated contact with oils, particularly used engine oils.
- Wear protective clothing, including impervious gloves where practicable.
- Do not put oily rags in pockets.
- Avoid contaminating clothes, particularly underpants, with oil.
- Heavily soiled clothing and oil-impregnated footwear should not be worn. Overalls must be cleaned regularly.
- First aid treatment should be obtained immediately for open cuts and wounds.
- Use barrier creams, applying them before each work period, to help the removal of oil from the skin.
- Wash with soap and water to ensure all oil is removed (skin cleansers and nail brushes will help). Preparations containing lanolin replace the natural skin oils which have been removed.
- Do not use gasoline, kerosene, diesel fuel, gas oil, thinners or solvents for cleaning skin.
- If skin disorders develop, obtain medical advice without delay.
- Where practical, degrease components prior to handling.
- Where there is a risk of eye contact, eye protection should be worn, for example, chemical goggles or face shields; in addition an eye wash facility should be provided.

### ENVIRONMENTAL PROTECTION PRECAUTIONS

## PRECAUTIONS

### < PRECAUTION >

Dispose of used oil and used oil filters through authorized waste disposal contractors to licensed waste disposal sites, or to the waste oil reclamation trade. If in doubt, contact the local authority for advice on disposal facilities.

GI

It is illegal to pour used oil on to the ground, down sewers or drains, or into water sources.

B

The regulations concerning pollution vary between regions.

C

### Air Conditioning

INFOID:0000000012794365

D

Use an approved refrigerant recovery unit any time the air conditioning system must be discharged. Refer to HA section "REFRIGERANT" for specific instructions.

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### Fuel

INFOID:0000000012794366

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#### For USA and Canada

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Use unleaded premium gasoline with an octane rating of at least 91 AKI (Anti-Knock Index) number (Research octane number 96).

H

If unleaded premium gasoline is not available, unleaded premium gasoline with an octane rating of at least 87 AKI number (Research octane number 91) may be temporarily used, but only under the following precautions:

I

- Have the fuel tank filled only partially with unleaded regular gasoline, and fill up with unleaded premium gasoline as soon as possible.

J

- Avoid full throttle driving and abrupt acceleration.

K

**Use unleaded premium gasoline for maximum vehicle performance.**

L

**CAUTION:**

M

- Using a fuel other than that specified could adversely affect the emission control system, and may also affect warranty coverage.

N

- Under no circumstances should a leaded gasoline be used, because this will damage the three-way catalyst.

O

- Do not use E-15 or E-85 fuel in the vehicle. The vehicle is not designed to run on E-15 or E-85 fuel. Using E-15 or E-85 fuel in a vehicle not specifically designed for E-15 or E-85 fuel can adversely affect the emission control devices and systems of the vehicle. Damage caused by such fuel is not covered by the INFINITI new vehicle limited warranty.

P

- Do not use fuel that contains the octane booster methylcyclopentadienyl manganese tricarbonyl (MMT). Using fuel containing MMT may adversely affect vehicle performance and vehicle emissions. Not all fuel dispensers are labeled to indicate MMT content, so you may have to consult your gasoline retailer for more details. Note that Federal and California laws prohibit the use of MMT in reformulated gasoline.

- U.S. government regulations require ethanol dispensing pumps to be identified by a small, square, Orange and black label with the common abbreviation or the appropriate percentage for that region.

#### For Mexico

**CAUTION:**

Q

**Do not use leaded gasoline. Using leaded gasoline will damage the three-way catalyst.**

R

Use unleaded premium gasoline with an octane rating of at least 91 AKI (Anti-Knock index) number (Research octane number 96).

S

If premium gasoline is not available, unleaded regular gasoline with an octane rating of 87 AKI number (Research octane number 91) may be temporarily used, but only under the following precautions:

T

- Have the fuel tank filled only partially with unleaded regular gasoline, and fill up with unleaded premium gasoline as soon as possible.

U

- Avoid full throttle driving and abrupt acceleration.

V

**Use unleaded premium gasoline for maximum vehicle performance.**

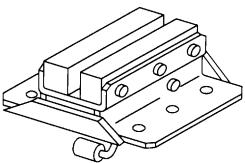
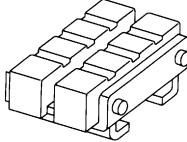
# LIFTING POINT

< PRECAUTION >

## LIFTING POINT

### Commercial Service Tools

INFOID:0000000012794367

Tool name	Description
Board on attachment	 S-NT001
Safety stand attachment	 S-NT002

#### CAUTION:

- Every time the vehicle is lifted up, maintain the complete vehicle curb condition.
- Since the vehicle's center of gravity changes when removing main parts on the front side (engine, transmission, suspension etc.), support a jack up point on the rear side garage jack with a mission jack or equivalent.
- Since the vehicle's center of gravity changes when removing main parts on the rear side (rear axle, suspension, etc.), support a jack up point on the front side garage jack with a mission jack or equivalent.
- Be careful not to smash or never do anything that would affect piping parts.

### Garage Jack and Safety Stand and 2-Pole Lift

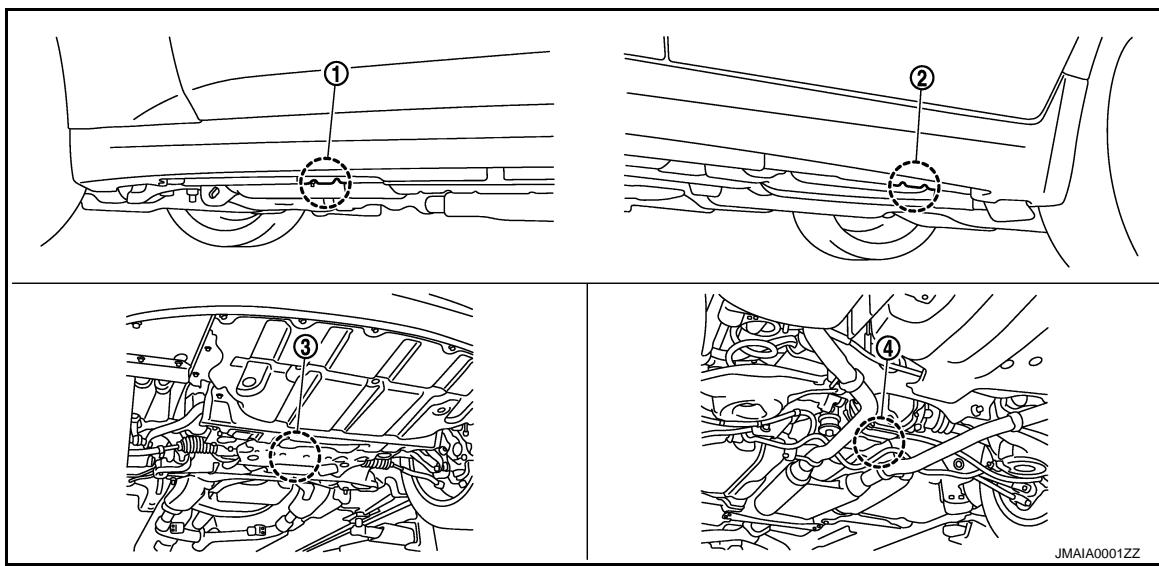
INFOID:0000000012794368

#### WARNING:

- Park the vehicle on a level surface when using the jack. Check to avoid damaging pipes, tubes, etc. under the vehicle.
- Never get under the vehicle while it is supported only by the jack. Always use safety stands when you have to get under the vehicle.
- Place wheel chocks at both front and back of the wheels on the ground.
- When lifting the vehicle, open the lift arms as wide as possible and ensure that the front and rear of the vehicle are well balanced.
- When setting the lift arm, never allow the arm to contact the brake tubes, brake cable, fuel lines and sill spoiler.

# LIFTING POINT

< PRECAUTION >



- ① Safety stand point and lift up point (front)   ② Safety stand point and lift up point   ③ Garage jack point (front)  
④ Garage jack point (rear)

## CAUTION:

There is canister just behind Garage jack point rear. Jack up carefully.

Board-On Lift

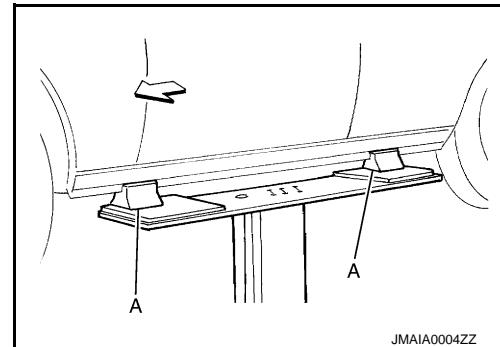
INFOID:0000000012794369

## CAUTION:

Check that vehicle is empty when lifting.

- The board-on lift attachment (A) set at front end of vehicle should be set on the front of the sill under the front door opening.
- Position attachments at front and rear ends of board-on lift.

◀ : Vehicle front



# TOW TRUCK TOWING

< PRECAUTION >

## TOW TRUCK TOWING

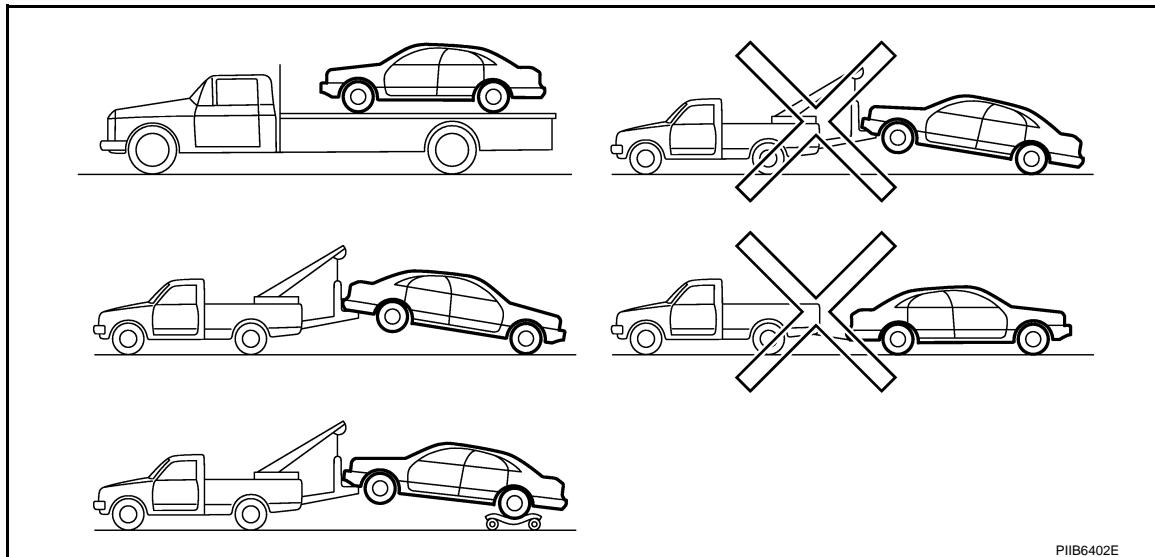
### Tow Truck Towing

INFOID:0000000012794370

#### CAUTION:

- All applicable state or Provincial (in Canada) laws and local laws regarding the towing operation must be obeyed.
- It is necessary to use proper towing equipment to avoid possible damage to the vehicle during towing operation. Towing is in accordance with Towing Procedure Manual at dealer.
- Always attach safety chains before towing.
- When towing, check that the transmission, steering system and powertrain are in good order. If any unit is damaged, dollies must be used.
- Never tow an automatic transmission model from the rear (that is backward) with four wheels on the ground. This may cause serious and expensive damage to the transmission.

#### 2WD MODELS



INFINITI recommends that vehicle be towed with the driving (rear) wheels off the ground or that a dolly be used as illustrated.

#### CAUTION:

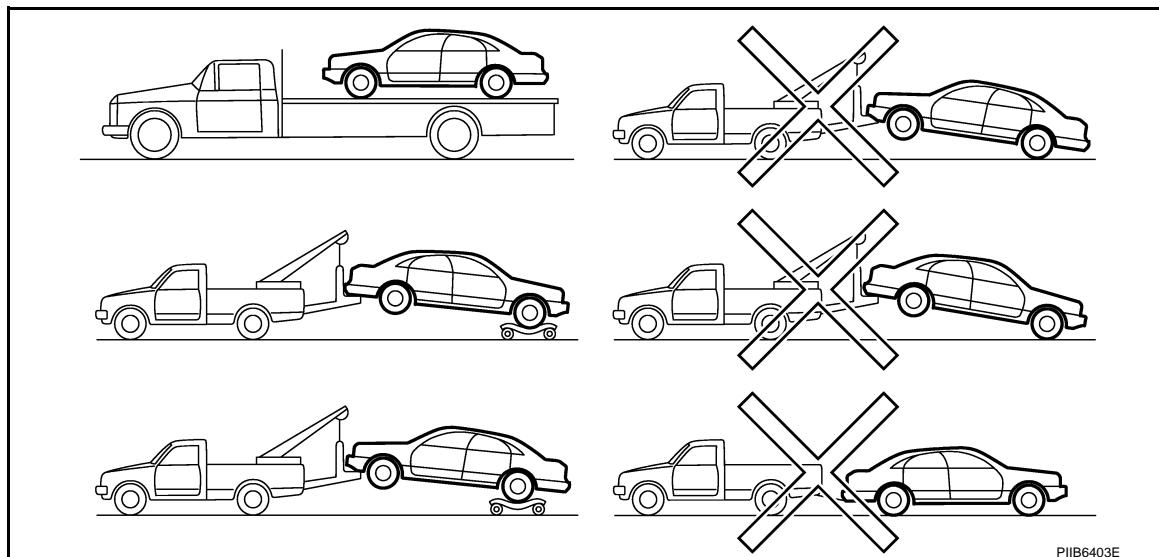
- Never tow automatic transmission models with the rear wheels on the ground or four wheels on the ground (forward or backward), as this may cause serious and expensive damage to the transmission.
- If it is necessary to tow the vehicle with the front wheels raised, always use towing dollies under the rear wheels.
- When towing rear wheel drive models with the front wheels on the ground or on towing dollies:
  - Turn the ignition switch to the OFF position, and secure the steering wheel in a straight ahead position with a rope or similar device. Never secure the steering wheel by turning the ignition switch to the LOCK position. This may damage the steering lock mechanism.
  - Move the selector lever to the N (Neutral) position.
- When the battery of vehicle equipped with the Intelligent Key system is discharged, your vehicle should be towed with the front wheels on towing dollies or place the vehicle on a flat bed truck.

If the speed or distance must necessarily be greater, remove the propeller shaft before towing to prevent damage to the transmission.

# TOW TRUCK TOWING

< PRECAUTION >

AWD MODELS



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INFINITI recommends that a dolly be used as illustrated when towing AWD models.

**CAUTION:**

Never tow AWD models with any of the wheels on the ground as this may cause serious and expensive damage to the powertrain.

## Vehicle Recovery (Freeing a Stuck Vehicle)

INFOID:0000000012794371

### FRONT

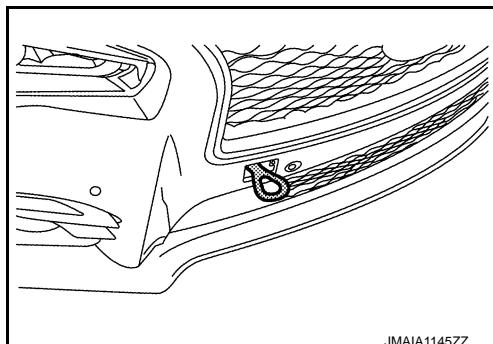
Securely install the vehicle recovery hook stored with jacking tools. Check that the hook is properly secured in the stored place after use.

**WARNING:**

- Stand clear of a stuck vehicle.
- Never spin your tires at high speed. This could cause them to explode and result in serious injury. Parts of your vehicle could also overheat and be damaged.

**CAUTION:**

- Tow chains or cables must be attached only to the vehicle recovery hooks or main structural members of the vehicle. Otherwise, the vehicle body will be damaged.
- Never use the vehicle tie downs to free a vehicle stuck in sand, snow, mud, etc. Never tow the vehicle using the vehicle tie downs or recovery hooks.
- Always pull the cable straight out from the front of the vehicle. Never pull on the hook at an angle.
- Pulling devices should be routed so they never touch any part of the suspension, steering, brake or cooling systems.
- Pulling devices such as ropes or canvas straps are not recommended for use in vehicle towing or recovery.



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### REAR

#### Recovery Hook

## TOW TRUCK TOWING

### < PRECAUTION >

Securely install the vehicle recovery hook stored with jacking tools. Check that the hook is properly secured in the stored place after use.

#### **WARNING:**

- Stand clear of a stuck vehicle.
- Never spin your tires at high speed. This could cause them to explode and result in serious injury. Parts of your vehicle could also overheat and be damaged.

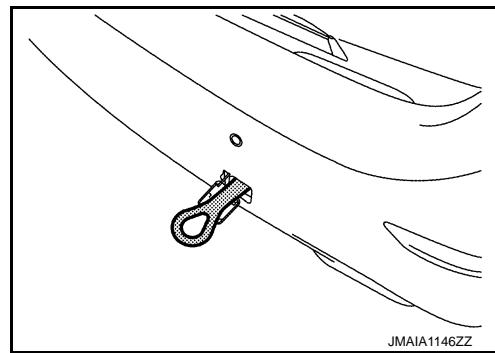
#### **CAUTION:**

- Tow chains or cables must be attached only to the vehicle recovery hooks or main structural members of the vehicle. Otherwise, the vehicle body will be damaged.
- Never use the vehicle tie downs to free a vehicle stuck in sand, snow, mud, etc. Never tow the vehicle using the vehicle tie downs or recovery hooks.
- Always pull the cable straight out from the front of the vehicle. Never pull on the hook at an angle.
- Pulling devices should be routed so they never touch any part of the suspension, steering, brake or cooling systems.
- Pulling devices such as ropes or canvas straps are not recommended for use in vehicle towing or recovery.

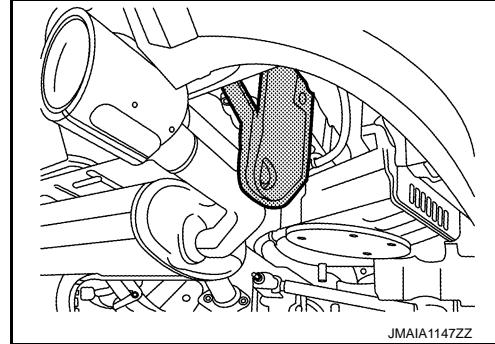
#### Rear Hook

#### **WARNING:**

- Rear hook is not available.



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## AUTOMATIC TRANSMISSION

To tow a vehicle equipped with an automatic transmission, an appropriate vehicle dolly **MUST** be placed under the towed vehicle's drive wheels. **Always** follow the dolly manufacturer's recommendations when using their product.

If the vehicle is stuck in sand, snow, mud, etc., use the following procedure:

1. Turn off the Vehicle Dynamic Control System.
2. Check the area in front and behind the vehicle is clear of obstructions.
3. Turn the steering wheel right and left to clear an area around the front tires.
4. Slowly rock the vehicle forward and backward.  
Shift back and forth between R (reverse) and D (drive).  
Apply the accelerator as little as possible to maintain the rocking motion.  
Release the accelerator pedal before shifting between R and D.  
Do not spin the tires above 35 mph (55 km/h).
5. If the vehicle can not be freed after a few tries, contact a professional towing service to remove the vehicle.

# IDENTIFICATION INFORMATION

< VEHICLE INFORMATION >

## VEHICLE INFORMATION IDENTIFICATION INFORMATION

GI

Model Variation

INFOID:000000012794372

B

Destination	Body	Engine	Axle	Handle	Transmission	Grade	Model		
USA	Sedan	2.0L turbo gasoline engine	2WD	LHD	7A/T	Base	BEAALQL-2UA		
						Premium	BEAALVL-2UA		
			AWD			Base	BEANLQL-2UA		
						Premium	BEANLVL-2UA		
		VR30DDTT	2WD			Base	BLVALQL-UUA		
						Premium	BLVALVL-UUA		
			AWD			Premium Deluxe Touring	BLVALPL-UUA		
						Premium Sport	BLVALWL-UUA		
						Premium Sport Deluxe Touring	BLVALRL-UUA		
						Premium	BLVNLVL-UUA		
			2WD			Premium Deluxe Touring	BLVNLPL-UUA		
						Premium Sport	BLVNLWL-UUA		
	Canada	2.0L turbo gasoline engine	AWD			Premium Sport Deluxe Touring	BLVNLRL-UUA		
						Premium Sport	BLVALWL-ZUA		
			2WD			Premium Sport Deluxe Touring	BLVALRL-ZUA		
						Premium Sport	BLVNLWL-ZUA		
		VR30DDTT	AWD			Premium Sport Deluxe Touring	BLVNLRL-ZUA		
						Base	BEAALQL-2NA		
						Premium	BEAALVL-2NA		
						Base	BEANLQL-2NA		
			2WD			Premium	BEANLVL-2NA		
						BLVALVL-UNA			
						Premium Deluxe Touring	BLVALPL-UNA		
						Premium Sport	BLVALWL-UNA		
						Premium Sport Deluxe Touring	BLVALRL-UNA		
						Premium	BLVNLVL-UNA		
						Premium Deluxe Touring	BLVNLPL-UNA		
						Premium Sport	BLVNLWL-UNA		
	Mexico	2.0L turbo gasoline engine	AWD			Premium Sport Deluxe Touring	BLVNLRL-UNA		
						Premium Sport	BLVALWL-ZNA		
			2WD			Premium Sport Deluxe Touring	BLVALRL-ZNA		
						Premium Sport	BLVNLWL-ZNA		
			AWD			Premium Sport Deluxe Touring	BLVNLRL-ZNA		
						Base	BLVALWL-ZJA		

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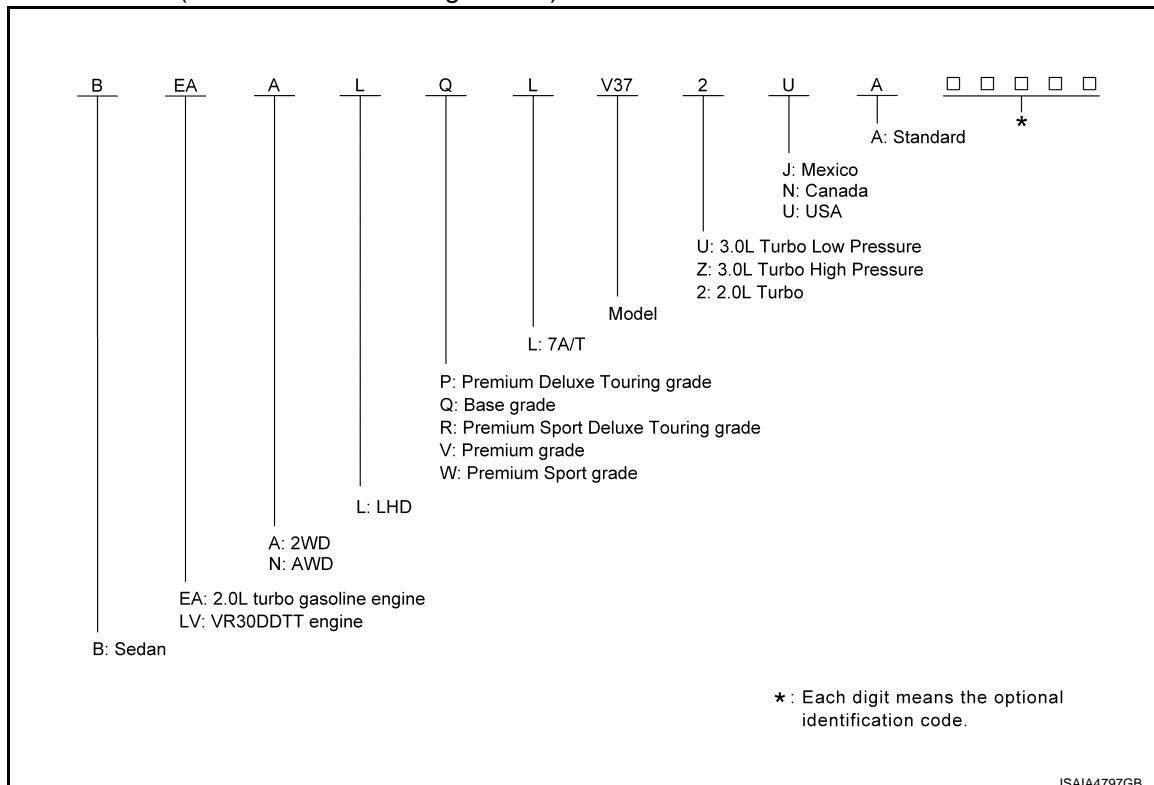
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# IDENTIFICATION INFORMATION

## < VEHICLE INFORMATION >

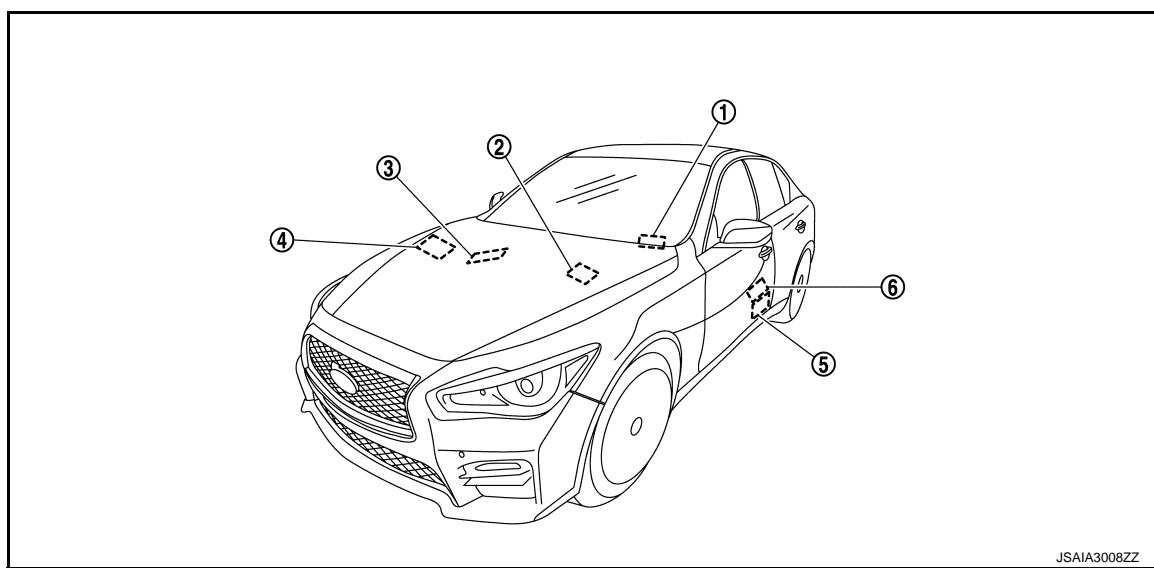
Model variation code (Prefix and suffix designations)



## Information About Identification or Model Code

INFOID:000000012794373

### IDENTIFICATION NUMBER



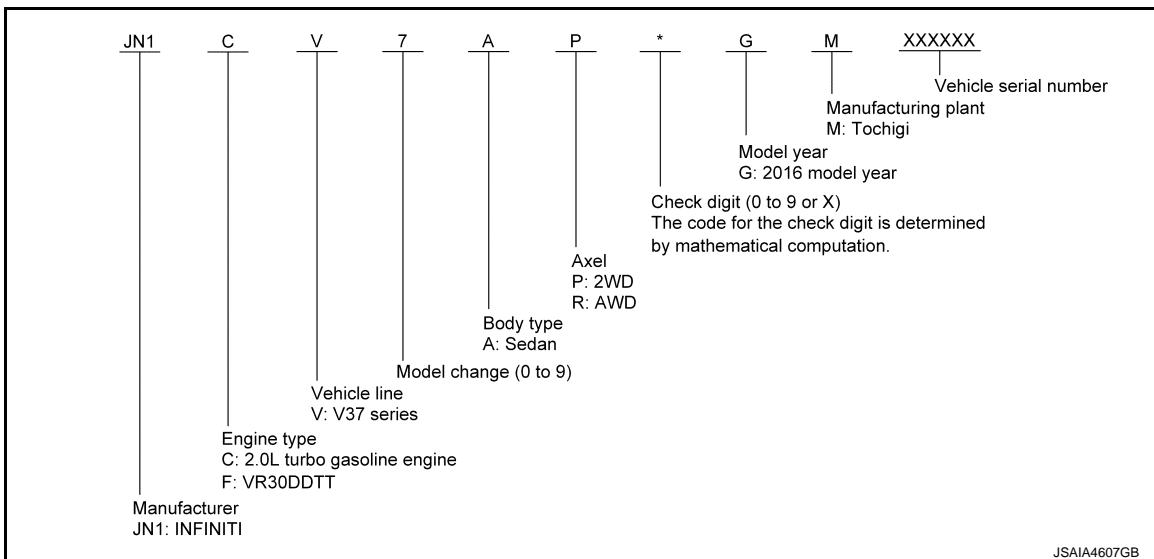
- |                                       |                                       |  |
|---------------------------------------|---------------------------------------|--|
| ① Vehicle identification number plate | ② Air conditioner specification label | ③ Vehicle identification number (Chassis number)   |
| ④ Emission control information label  | ⑤ Tire and loading information label  | ⑥ FMVSS certification label (For USA and Mexico)<br>CMVSS certification label (For Canada) |

### VEHICLE IDENTIFICATION NUMBER ARRANGEMENT

# IDENTIFICATION INFORMATION

## < VEHICLE INFORMATION >

For USA and Canada



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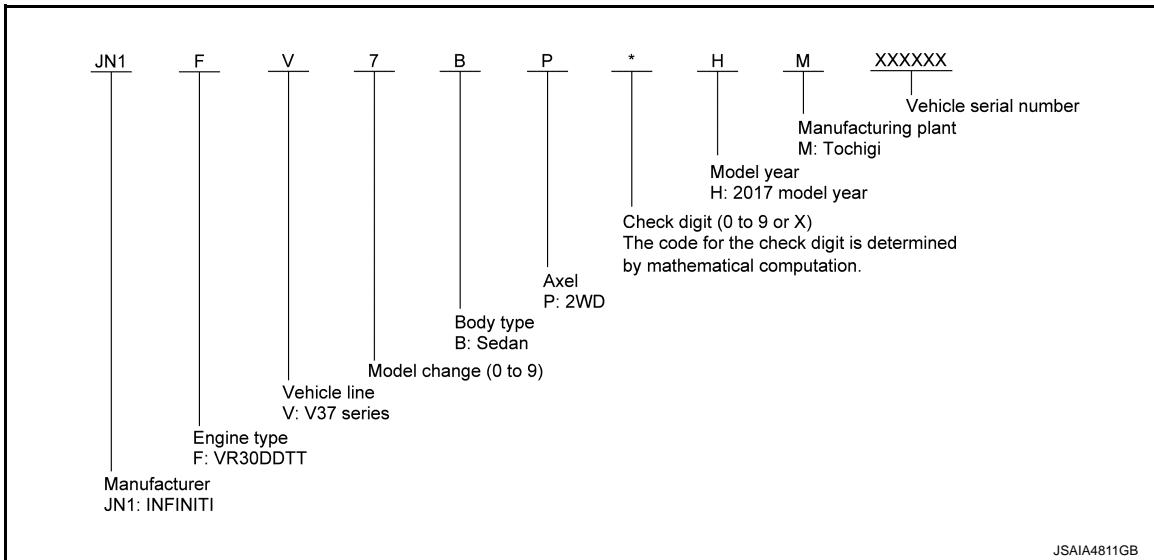
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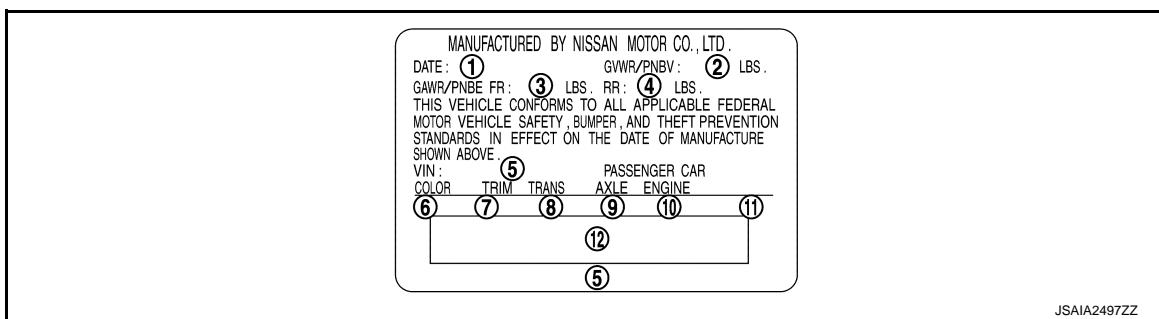
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For Mexico



## CERTIFICATION LABEL

For USA and Mexico



**①** MFR Month/Year

**②** Gross vehicle weight rating

**③** Gross axle weight rating (Front)

**④** Gross axle weight rating (Rear)

**⑤** Vehicle identification number

**⑥** Body color code

**⑦** Trim color code

**⑧** Transmission model

**⑨** Axle model

**⑩** Engine model

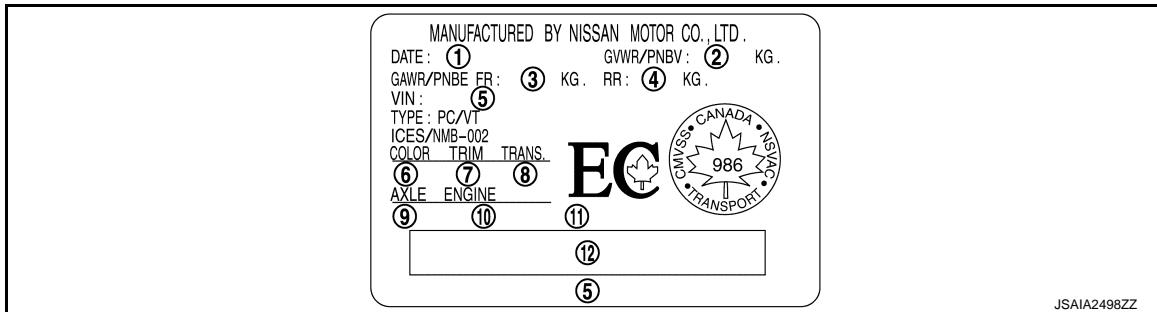
**⑪** Engine displacement

**⑫** Vin bar code

For Canada

# IDENTIFICATION INFORMATION

## < VEHICLE INFORMATION >



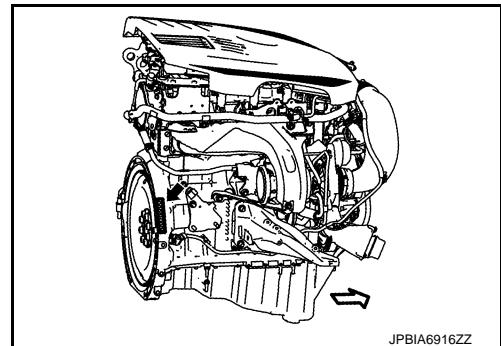
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- |                                   |                                 |                                    |
|-----------------------------------|---------------------------------|------------------------------------|
| ① MFR Month/Year                  | ② Gross vehicle weight rating   | ③ Gross axle weight rating (Front) |
| ④ Gross axle weight rating (Rear) | ⑤ Vehicle identification number | ⑥ Body color code                  |
| ⑦ Trim color code                 | ⑧ Transmission model            | ⑨ Axle model                       |
| ⑩ Engine model                    | ⑪ Engine displacement           | ⑫ Vin bar code                     |

## ENGINE SERIAL NUMBER

2.0L turbo gasoline engine

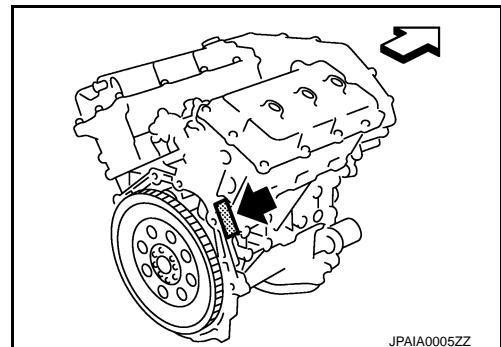
◀ : Vehicle front



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VR30DDTT

◀ : Vehicle front

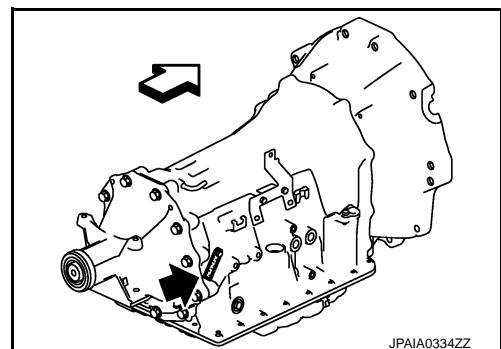


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## AUTOMATIC TRANSMISSION NUMBER

VR30DDTT

◀ : Vehicle front



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# IDENTIFICATION INFORMATION

< VEHICLE INFORMATION >

## Dimensions

INFOID:000000012794374

GI

For USA and Canada

Unit: mm (in)

	Base / Premium	Sport
Overall length (with front license plate)	4,790 (188.6)	4,802 (189.1)
Overall length (without front license plate)	4,782 (188.3)	4,802 (189.1)
Overall width	1,823 (71.8)	1,823 (71.8)
Overall height	1,442 (56.8) <sup>*1</sup> 1,451 (57.1) <sup>*2</sup>	1,442 (56.8) <sup>*1</sup> 1,453 (57.1) <sup>*2</sup>
Front tread	1,545 (60.8) <sup>*3</sup> 1,535 (60.4) <sup>*4</sup>	1,535 (60.4) <sup>*4</sup> 1,540 (60.6) <sup>*1*5</sup> 1,545 (60.8) <sup>*2*5</sup>
Rear tread	1,570 (61.8) <sup>*3</sup> 1,560 (61.4) <sup>*4</sup>	1,560 (61.4) <sup>*4*6</sup> 1,565 (61.6) <sup>*5</sup>
Wheelbase	2,850 (112.2)	2,850 (112.2)

\*1: 2WD models

\*2: AWD models

\*3: 17 x 7.5J wheel models

\*4: 19 x 8.5J wheel models

\*5: 19 x 9J wheel models

\*6: 19 x 9.5J wheel models

For Mexico

Unit: mm (in)

	Base
Overall length	4,790 (188.6)
Overall width	1,820 (71.7)
Overall height	1,455 (57.3)
Front tread	1,530 (60.2)
Rear tread	1,555 (61.2)
Wheelbase	2,850 (112.2)

# IDENTIFICATION INFORMATION

< VEHICLE INFORMATION >

## Wheels & Tires

INFOID:000000012794375

Conventional	17 inch	Tire	P225/55RF17 95V	
		Road wheel (Aluminum)	Size	17 × 7-1/2J
			Inset	45 mm (1.77 in)
	19 inch	Tire	P245/40RF19 94V 245/40RF19 94W	
		Road wheel (Aluminum)	Size	19 × 8-1/2J
			Inset	50 mm (1.97 in)
	Front	Tire	245/40R19 94Y 245/40RF19 94W	
		Road wheel (Aluminum)	Size	19 × 9J
			Inset	47 mm (1.85 in)
	Rear	Tire	265/35R19 94W 265/35RF19 94W	
		Road wheel (Aluminum)	Size	19 × 9-1/2J
			Inset	50 mm (1.97 in)
Spare*	18 inch	Tire	T145/70R18 107M	
		Road wheel (Aluminum)	Size	18 × 4T
			Inset	0 mm (0 in)

\*: If equipped

# SERVICE INFORMATION FOR ELECTRICAL INCIDENT

< BASIC INSPECTION >

## BASIC INSPECTION

### SERVICE INFORMATION FOR ELECTRICAL INCIDENT

GI

#### Work Flow

INFOID:0000000012794376

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#### WORK FLOW

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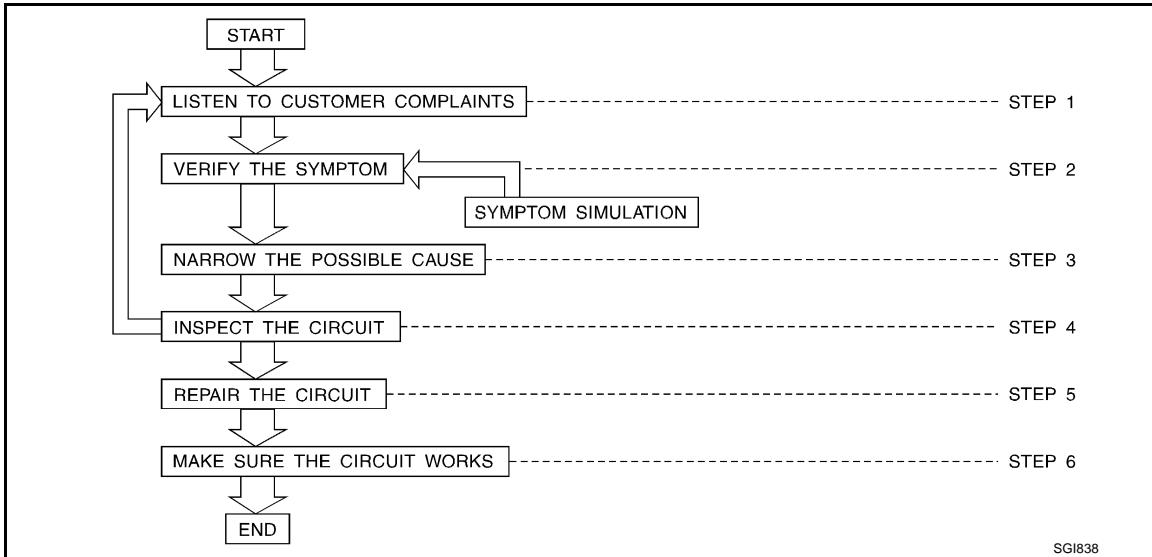
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STEP	DESCRIPTION	
STEP 1	Get detailed information about the conditions and the environment when the incident occurred. The following are key pieces of information required to make a good analysis:  <b>WHAT</b> Vehicle Model, Engine, Transmission/Transaxle and the System (i.e. Radio). <b>WHEN</b> Date, Time of Day, Weather Conditions, Frequency. <b>WHERE</b> Road Conditions, Altitude and Traffic Situation. <b>HOW</b> System Symptoms, Operating Conditions (Other Components Interaction). Service History and if any After Market Accessories have been installed.	
STEP 2	Operate the system, road test if necessary. Verify the parameter of the incident. If the problem cannot be duplicated, refer to "Incident Simulation Tests".	
STEP 3	Get the proper diagnosis materials together including: <ul style="list-style-type: none"><li>• Power Supply Routing</li><li>• System Operation Descriptions</li><li>• Applicable Service Manual Sections</li><li>• Check for any Service Bulletins</li></ul> Identify where to begin diagnosis based upon your knowledge of the system operation and the customer comments.	
STEP 4	Inspect the system for mechanical binding, loose connectors or wiring damage. Determine which circuits and components are involved and diagnose using the Power Supply Routing and Harness Layouts.	
STEP 5	Repair or replace the incident circuit or component.	
STEP 6	Operate the system in all modes. Verify the system works properly under all conditions. check you have not inadvertently created a new incident during your diagnosis or repair steps.	

#### Control Units and Electrical Parts

INFOID:0000000012794377

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#### PRECAUTIONS

- Never reverse polarity of battery terminals.
- Install only parts specified for a vehicle.
- Before replacing the control unit, check the input and output and functions of the component parts.
- Do not apply excessive force when disconnecting a connector.

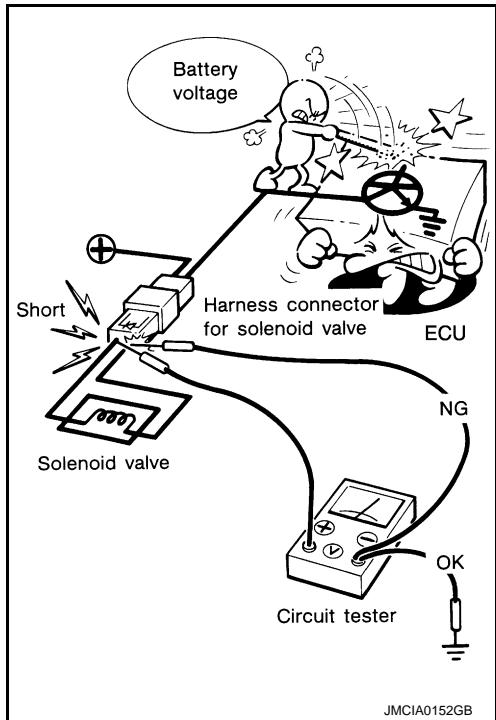
# SERVICE INFORMATION FOR ELECTRICAL INCIDENT

## < BASIC INSPECTION >

- Do not apply excessive shock to the control unit by dropping or hitting it.
- Be careful to prevent condensation in the control unit due to rapid temperature changes and do not let water or rain get on it. If water is found in the control unit, dry it fully and then install it in the vehicle.
- Be careful not to let oil to get on the control unit connector.
- Avoid cleaning the control unit with volatile oil.
- Do not disassemble the control unit, and do not remove the upper and lower covers.



- When using a DMM, be careful not to let test probes get close to each other to prevent the power transistor in the control unit from damaging battery voltage because of short circuiting.
- When checking input and output signals of the control unit, use the specified check adapter.



## How to Check Terminal

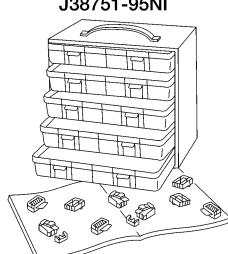
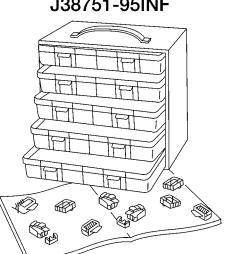
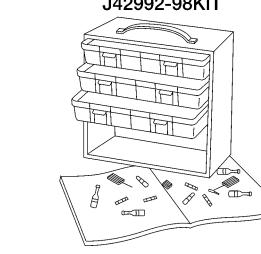
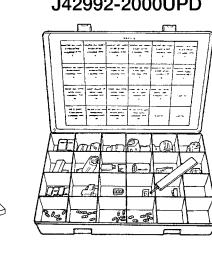
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### CONNECTOR AND TERMINAL PIN KIT

- Use the connector and terminal pin kits listed below when replacing connectors or terminals.
- The connector and terminal pin kits contain some of the most commonly used NISSAN/INFINITI connectors and terminals. For detailed connector and terminal pin replacement procedures, refer to the latest NISSAN/INFINITI CONNECTOR AND TERMINAL PIN SERVICE MANUAL.

# SERVICE INFORMATION FOR ELECTRICAL INCIDENT

## < BASIC INSPECTION >

Tool number (TechMate No.) Tool name	Description	GI
- (J38751-95NI) Connector and terminal pin kit (NISSAN)		B
- (J38751-95INF) Connector and terminal pin kit (INFINITI)		C
- (J42992-98KIT) OBD and terminal repair kit		D
- (J42992-2000UPD) OBD-II Connector Kit Up- date		E
	WAIA0004E	F
	WAIA0005E	G

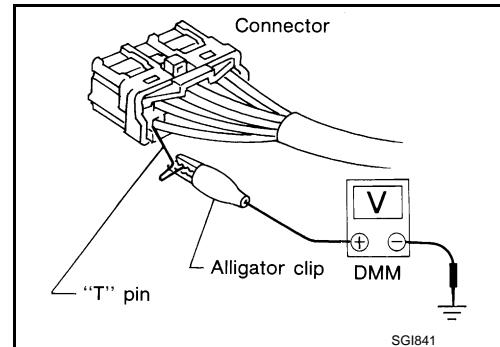
### HOW TO PROBE CONNECTORS

- Connector damage and an intermittent connection can result from improperly probing of the connector during circuit checks.
- The probe of a digital multimeter (DMM) may not correctly fit the connector cavity. To correctly probe the connector, follow the procedures below using a "T" pin. For the best contact grasp the "T" pin using an alligator clip.

#### Probing from Harness Side

Standard type (not waterproof type) connector should be probed from harness side with "T" pin.

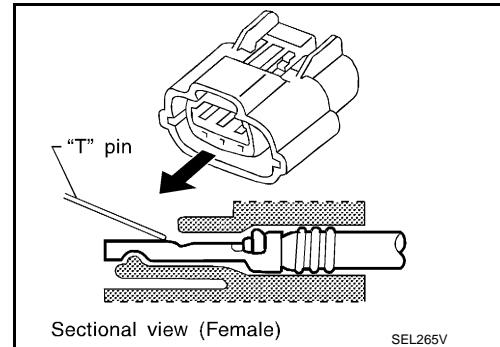
- If the connector has a rear cover such as a ECM connector, remove the rear cover before probing the terminal.
- Do not probe waterproof connector from harness side. Damage to the seal between wire and connector may result.



#### Probing from Terminal Side

##### FEMALE TERMINAL

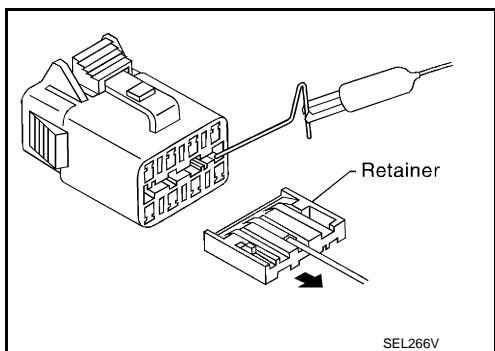
- There is a small notch above each female terminal. Probe each terminal with the "T" pin through the notch.  
Do not insert any object other than the same type male terminal into female terminal.



# SERVICE INFORMATION FOR ELECTRICAL INCIDENT

## < BASIC INSPECTION >

- Some connectors do not have a notch above each terminal. To probe each terminal, remove the connector retainer to make contact space for probing.

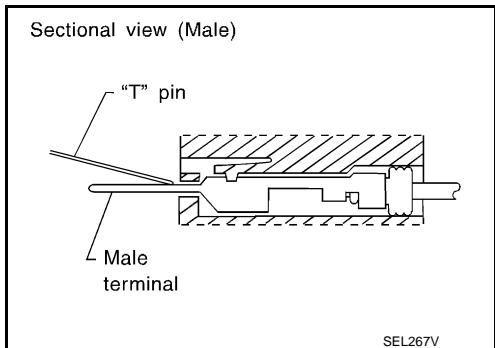


### MALE TERMINAL

- Carefully probe the contact surface of each terminal using a "T" pin.

**CAUTION:**

**Never bend terminal.**



### How to Check Enlarged Contact Spring of Terminal

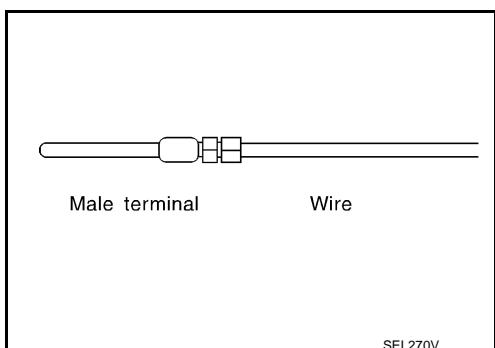
- An enlarged contact spring of a terminal may create intermittent signals in the circuit.
- If the intermittent open circuit occurs, follow the procedure below to inspect for open wires and enlarged contact spring of female terminal.

- Assemble a male terminal and approx. 10 cm (3.9 in) of wire.

**NOTE:**

**Use a male terminal which matches the female terminal.**

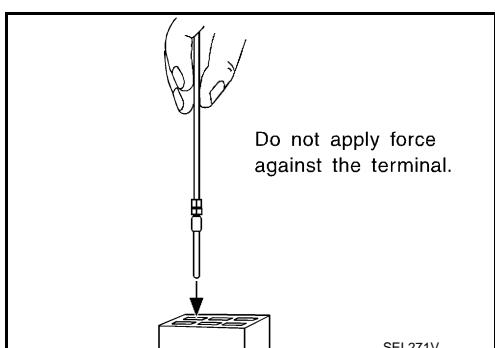
- Disconnect the suspected faulty connector and hold it terminal side up.



- While holding the wire of the male terminal, try to insert the male terminal into the female terminal.

**CAUTION:**

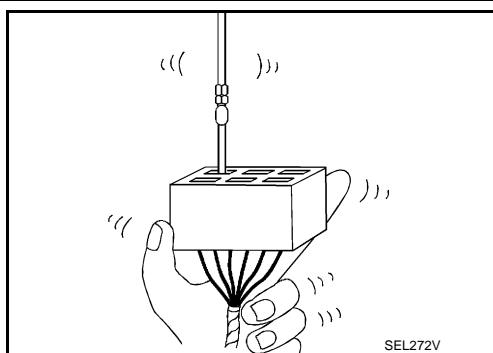
**Never force the male terminal into the female terminal with your hands.**



# SERVICE INFORMATION FOR ELECTRICAL INCIDENT

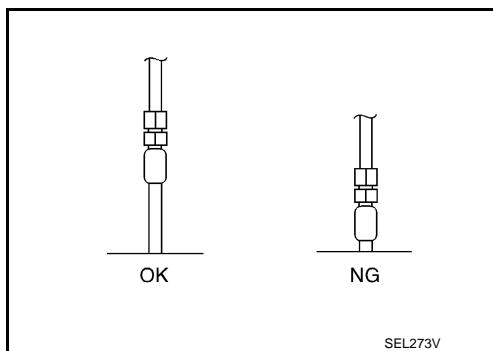
## < BASIC INSPECTION >

4. While moving the connector, check whether the male terminal can be easily inserted or not.



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- If the male terminal can be easily inserted into the female terminal, replace the female terminal.



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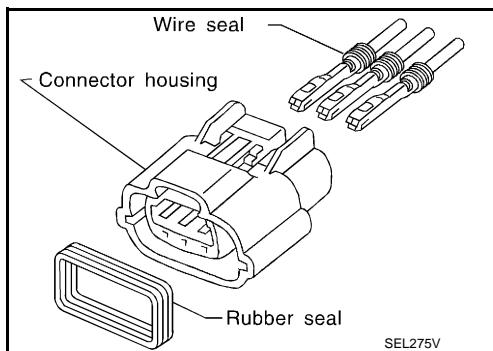
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## Waterproof Connector Inspection

If water enters the connector, it can short interior circuits. This may lead to intermittent problems. Check the following items to maintain the original waterproof characteristics.

### RUBBER SEAL INSPECTION

- Most waterproof connectors are provided with a rubber seal between the male and female connectors. If the seal is missing, the waterproof performance may not meet specifications.
- The rubber seal may come off when connectors are disconnected. Whenever connectors are reconnected, check the rubber seal is properly installed on either side of male or female connector.



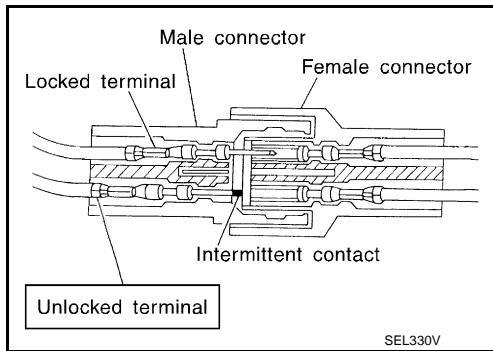
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### WIRE SEAL INSPECTION

- The wire seal must be installed on the wire insertion area of a waterproof connector. Be sure that the seal is installed properly.

## Terminal Lock Inspection

Check for unlocked terminals by pulling wire at the end of connector. An unlocked terminal may create intermittent signals in the circuit.



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## Intermittent Incident

INFOID:000000012794379

### DESCRIPTION

Sometimes the symptom is not present when the vehicle is brought in for service. If possible, re-create the conditions present at the time of the incident. Doing so may help avoid a No Trouble Found Diagnosis. The fol-

# SERVICE INFORMATION FOR ELECTRICAL INCIDENT

## < BASIC INSPECTION >

l owing section illustrates ways to simulate the conditions/environment under which the owner experiences an electrical incident.

The section is broken into the six following topics:

- Vehicle vibration
- Heat sensitive
- Freezing
- Water intrusion
- Electrical load
- Cold or hot start up

Get a thorough description of the incident from the customer. It is important for simulating the conditions of the problem.

### VEHICLE VIBRATION

The problem may occur or become worse while driving on a rough road or when engine is vibrating (idle with A/C on). In such a case, you will want to check for a vibration related condition. Refer to the following illustration.

#### Connector & Harness

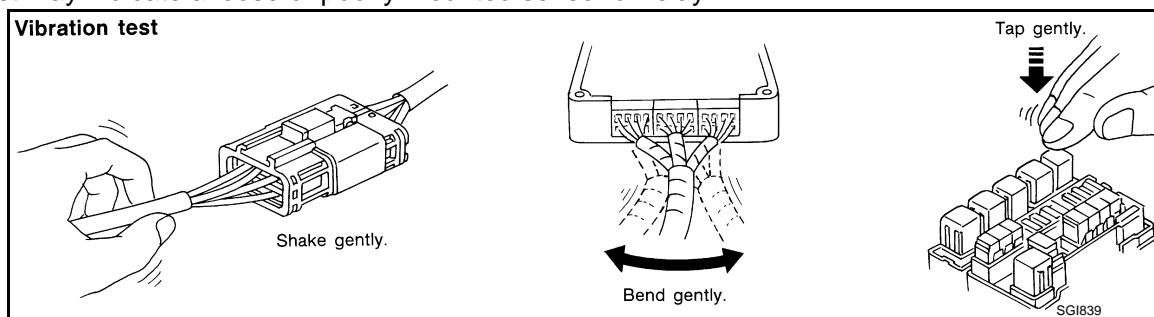
Determine which connectors and wiring harness would affect the electrical system you are inspecting. Gently shake each connector and harness while monitoring the system for the incident you are trying to duplicate. This test may indicate a loose or poor electrical connection.

#### Hint

Connectors can be exposed to moisture. It is possible to get a thin film of corrosion on the connector terminals. A visual inspection may not reveal this without disconnecting the connector. If the problem occurs intermittently, perhaps the problem is caused by corrosion. It is a good idea to disconnect, inspect and clean the terminals on related connectors in the system.

#### Sensor & Relay

Gently apply a slight vibration to sensors and relays in the system you are inspecting. This test may indicate a loose or poorly mounted sensor or relay.



#### Engine Compartment

There are several reasons a vehicle or engine vibration could cause an electrical complaint. Some of the things to check for are:

- Connectors not fully seated.
- Wiring harness not long enough and is being stressed due to engine vibrations or rocking.
- Wires laying across brackets or moving components.
- Loose, dirty or corroded ground wires.
- Wires routed too close to hot components.

To inspect components under the hood, start by verifying the integrity of ground connections. (Refer to Ground Inspection described later.) First check that the system is properly grounded. Then check for loose connection by gently shaking the wiring or components as previously explained. Using the wiring diagrams inspect the wiring for continuity.

#### Behind the Instrument Panel

An improperly routed or improperly clamped harness can become pinched during accessory installation. Vehicle vibration can aggravate a harness which is routed along a bracket or near a screw.

#### Under Seating Areas

# SERVICE INFORMATION FOR ELECTRICAL INCIDENT

## < BASIC INSPECTION >

An unclamped or loose harness can cause wiring to be pinched by seat components (such as slide guides) during vehicle vibration. If the wiring runs under seating areas, inspect wire routing for possible damage or pinching.

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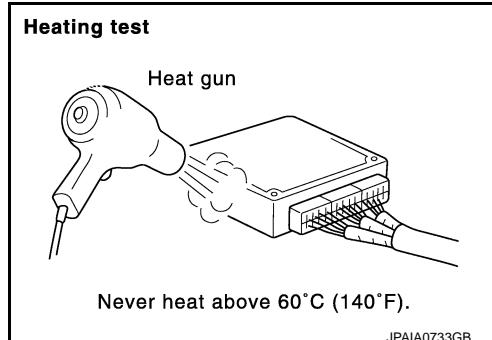
### HEAT SENSITIVE

- The customer's concern may occur during hot weather or after car has sat for a short time. In such cases you will want to check for a heat sensitive condition.
- To determine if an electrical component is heat sensitive, heat the component with a heat gun or equivalent.

#### CAUTION:

**Never heat components above 60°C (140°F).**

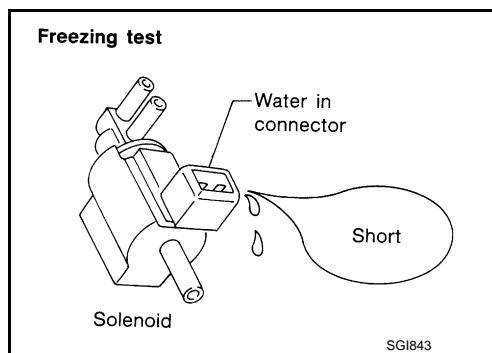
- If incident occurs while heating the unit, either replace or properly insulate the component.



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### FREEZING

- The customer may indicate the incident goes away after the car warms up (winter time). The cause could be related to water freezing somewhere in the wiring/electrical system.
- There are two methods to check for this. The first is to arrange for the owner to leave his car overnight. Check it will get cold enough to demonstrate his complaint. Leave the car parked outside overnight. In the morning, do a quick and thorough diagnosis of those electrical components which could be affected.
- The second method is to put the suspect component into a freezer long enough for any water to freeze. Reinstall the part into the car and check for the reoccurrence of the incident. If it occurs, repair or replace the component.

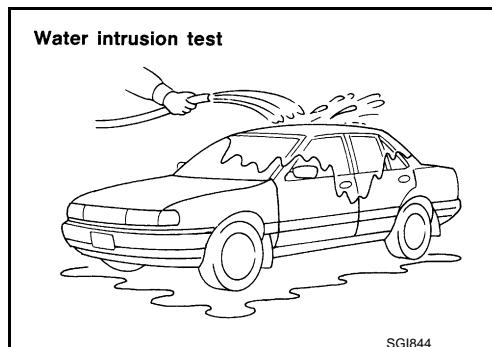


### WATER INTRUSION

The incident may occur only during high humidity or in rainy/snowy weather. In such cases the incident could be caused by water intrusion on an electrical part. This can be simulated by soaking the car or running it through a car wash.

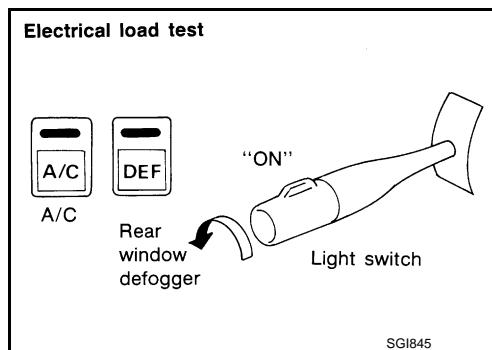
#### CAUTION:

**Never spray water directly on any electrical components.**



### ELECTRICAL LOAD

The incident may be electrical load sensitive. Perform diagnosis with all accessories (including A/C, rear window defogger, radio, fog lamps) turned on.



### COLD OR HOT START UP

On some occasions an electrical incident may occur only when the car is started cold, or it may occur when the car is restarted hot shortly after being turned off. In these cases you may have to keep the car overnight to make a proper diagnosis.

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# SERVICE INFORMATION FOR ELECTRICAL INCIDENT

< BASIC INSPECTION >

## Circuit Inspection

INFOID:000000012794380

### DESCRIPTION

- In general, testing electrical circuits is an easy task if it is approached in a logical and organized method. Before beginning it is important to have all available information on the system to be tested. Also, get a thorough understanding of system operation. Then you will be able to use the appropriate equipment and follow the correct test procedure.
- You may have to simulate vehicle vibrations while testing electrical components. Gently shake the wiring harness or electrical component to do this.

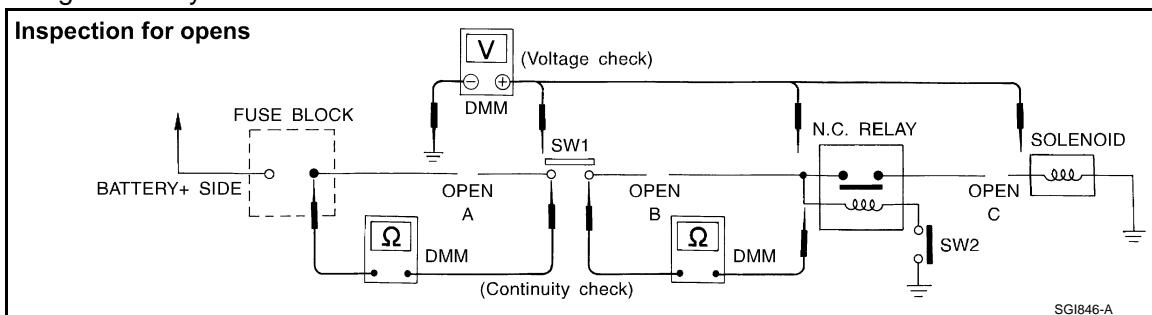
OPEN	A circuit is open when there is no continuity through a section of the circuit.
	There are two types of shorts.
SHORT	• SHORT CIRCUIT When a circuit contacts another circuit and causes the normal resistance to change.
	• SHORT TO GROUND When a circuit contacts a ground source and grounds the circuit.

### NOTE:

Refer to [GI-42, "How to Check Terminal"](#) to probe or check terminal.

### TESTING FOR "OPENS" IN THE CIRCUIT

Before you begin to diagnose and test the system, you should rough sketch a schematic of the system. This will help you to logically walk through the diagnosis process. Drawing the sketch will also reinforce your working knowledge of the system.



### Continuity Check Method

The continuity check is used to find an open in the circuit. The digital multimeter (DMM) set on the resistance function will indicate an open circuit as over limit (no beep tone or no ohms symbol). Check to always start with the DMM at the highest resistance level.

To help in understanding the diagnosis of open circuits, please refer to the previous schematic.

- Disconnect the battery negative cable.
- Start at one end of the circuit and work your way to the other end. (At the fuse block in this example)
- Connect one probe of the DMM to the fuse block terminal on the load side.
- Connect the other probe to the fuse block (power) side of SW1. Little or no resistance will indicate that portion of the circuit has good continuity. If there were an open in the circuit, the DMM would indicate an over limit or infinite resistance condition. (point A)
- Connect the probes between SW1 and the relay. Little or no resistance will indicate that portion of the circuit has good continuity. If there were an open in the circuit, the DMM would indicate an over limit or infinite resistance condition. (point B)
- Connect the probes between the relay and the solenoid. Little or no resistance will indicate that portion of the circuit has good continuity. If there were an open in the circuit, the DMM would indicate an over limit or infinite resistance condition. (point C)

Any circuit can be diagnosed using the approach in the previous example.

### Voltage Check Method

To help in understanding the diagnosis of open circuits please refer to the previous schematic.

In any powered circuit, an open can be found by methodically checking the system for the presence of voltage. This is done by switching the DMM to the voltage function.

- Connect one probe of the DMM to a known good ground.
- Begin probing at one end of the circuit and work your way to the other end.
- With SW1 open, probe at SW1 to check for voltage.  
voltage: open is further down the circuit than SW1.

# SERVICE INFORMATION FOR ELECTRICAL INCIDENT

## < BASIC INSPECTION >

no voltage: open is between fuse block and SW1 (point A).

- Close SW1 and probe at relay.

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voltage: open is further down the circuit than the relay.

no voltage: open is between SW1 and relay (point B).

- Close the relay and probe at the solenoid.

B

voltage: open is further down the circuit than the solenoid.

C

no voltage: open is between relay and solenoid (point C).

D

Any powered circuit can be diagnosed using the approach in the previous example.

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## TESTING FOR "SHORTS" IN THE CIRCUIT

To simplify the discussion of shorts in the system, please refer to the following schematic.

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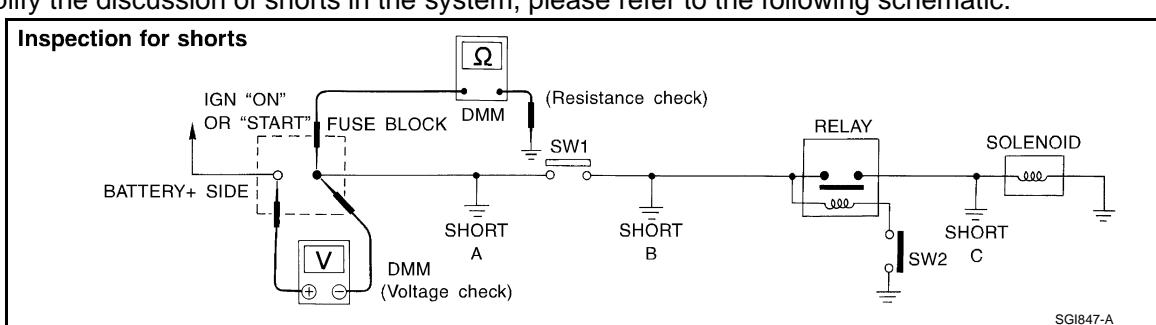
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### Resistance Check Method

- Disconnect the battery negative cable and remove the blown fuse.
- Disconnect all loads (SW1 open, relay disconnected and solenoid disconnected) powered through the fuse.
- Connect one probe of the DMM to the load side of the fuse terminal. Connect the other probe to a known good ground.
- With SW1 open, check for continuity.
  - continuity: short is between fuse terminal and SW1 (point A).
  - no continuity: short is further down the circuit than SW1.
- Close SW1 and disconnect the relay. Put probes at the load side of fuse terminal and a known good ground. Then, check for continuity.
  - continuity: short is between SW1 and the relay (point B).
  - no continuity: short is further down the circuit than the relay.
- Close SW1 and jump the relay contacts with jumper wire. Put probes at the load side of fuse terminal and a known good ground. Then, check for continuity.
  - continuity: short is between relay and solenoid (point C).
  - no continuity: check solenoid, retrace steps.

### Voltage Check Method

- Remove the blown fuse and disconnect all loads (i.e. SW1 open, relay disconnected and solenoid disconnected) powered through the fuse.
- Turn the ignition switch to the ON or START position. Verify battery voltage at the battery + side of the fuse terminal (one lead on the battery + terminal side of the fuse block and one lead on a known good ground).
- With SW1 open and the DMM leads across both fuse terminals, check for voltage.
  - voltage: short is between fuse block and SW1 (point A).
  - no voltage: short is further down the circuit than SW1.
- With SW1 closed, relay and solenoid disconnected and the DMM leads across both fuse terminals, check for voltage.
  - voltage: short is between SW1 and the relay (point B).
  - no voltage: short is further down the circuit than the relay.
- With SW1 closed, relay contacts jumped with fused jumper wire check for voltage.
  - voltage: short is down the circuit of the relay or between the relay and the disconnected solenoid (point C).
  - no voltage: retrace steps and check power to fuse block.

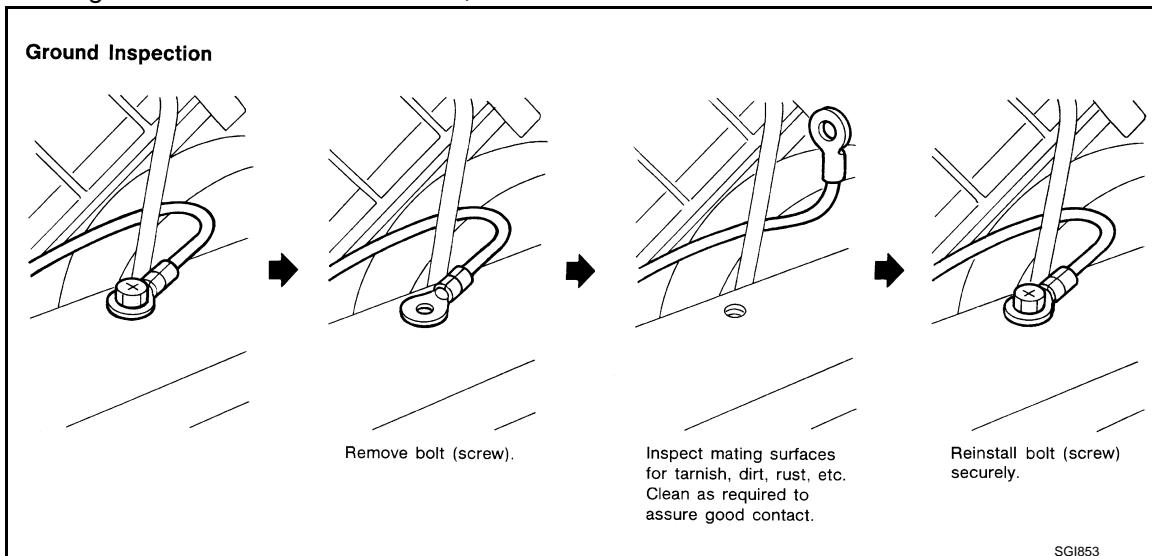
## GROUND INSPECTION

- Ground connections are very important to the proper operation of electrical and electronic circuits. Ground connections are often exposed to moisture, dirt and other corrosive elements. The corrosion (rust) can become an unwanted resistance. This unwanted resistance can change the way a circuit works.
- Electronically controlled circuits are very sensitive to proper grounding. A loose or corroded ground can drastically affect an electronically controlled circuit. A poor or corroded ground can easily affect the circuit. Even when the ground connection looks clean, there can be a thin film of rust on the surface.

# SERVICE INFORMATION FOR ELECTRICAL INCIDENT

## < BASIC INSPECTION >

- When inspecting a ground connection follow these rules:
  - Remove the ground bolt or screw.
  - Inspect all mating surfaces for tarnish, dirt, rust, etc.
  - Clean as required to assure good contact.
  - Reinstall bolt or screw securely.
  - Inspect for "add-on" accessories which may be interfering with the ground circuit.
  - If several wires are crimped into one ground eyelet terminal, check for proper crimps. Check all of the wires are clean, securely fastened and providing a good ground path. If multiple wires are cased in one eyelet check no ground wires have excess wire insulation.
- For detailed ground distribution information, refer to "Ground Distribution" in PG section.



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## VOLTAGE DROP TESTS

- Voltage drop tests are often used to find components or circuits which have excessive resistance. A voltage drop in a circuit is caused by a resistance when the circuit is in operation.
- Check the wire in the illustration. When measuring resistance with DMM, contact by a single strand of wire will give reading of 0 ohms. This would indicate a good circuit. When the circuit operates, this single strand of wire is not able to carry the current. The single strand will have a high resistance to the current. This will be picked up as a slight voltage drop.
- Unwanted resistance can be caused by many situations as follows:
  - Undersized wiring (single strand example)
  - Corrosion on switch contacts
  - Loose wire connections or splices.
- If repairs are needed always use wire that is of the same or larger gauge.

### Measuring Voltage Drop — Accumulated Method

- Connect the DMM across the connector or part of the circuit you want to check. The positive lead of the DMM should be closer to power and the negative lead closer to ground.
- Operate the circuit.
- The DMM will indicate how many volts are being used to "push" current through that part of the circuit.

# SERVICE INFORMATION FOR ELECTRICAL INCIDENT

## < BASIC INSPECTION >

Note in the illustration that there is an excessive 4.1 volt drop between the battery and the bulb.

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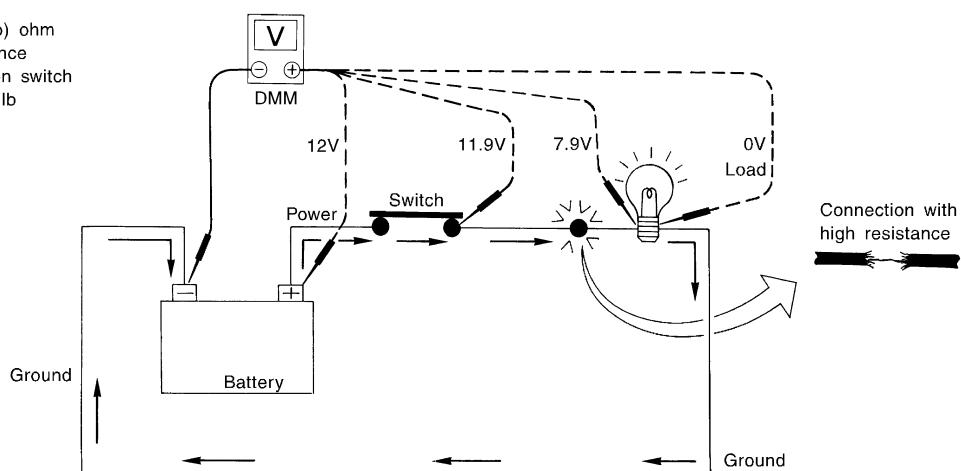
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### Symptom: Dim bulb or no operation

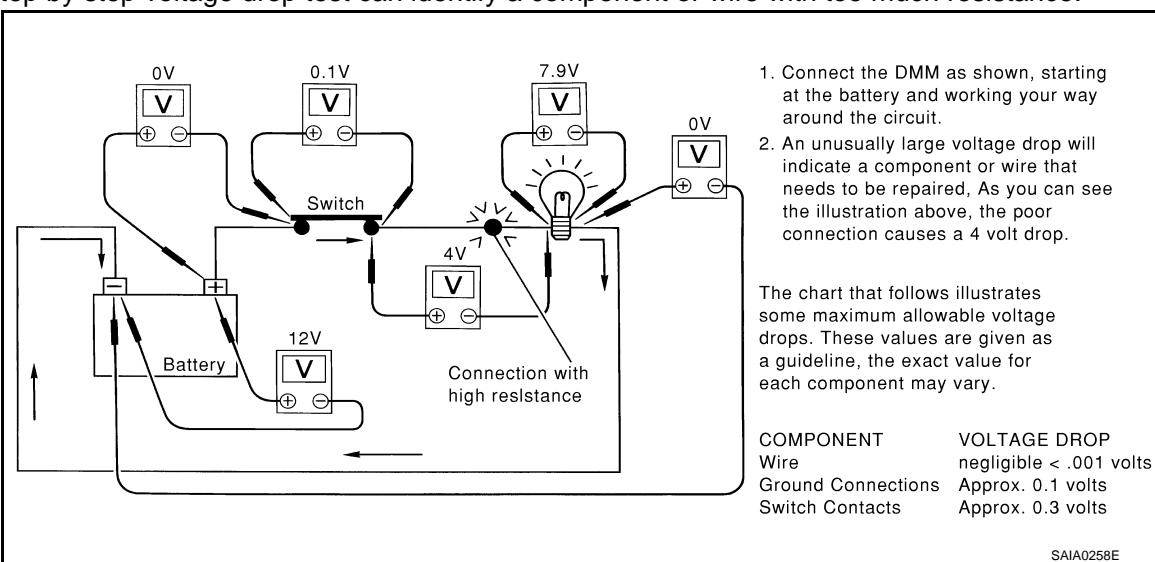
0 (zero) ohm  
resistance  
between switch  
and bulb



SGI974

### Measuring Voltage Drop — Step-by-Step

- The step-by-step method is most useful for isolating excessive drops in low voltage systems (such as those in "Computer Controlled Systems").
- Circuits in the "Computer Controlled System" operate on very low amperage.
- The (Computer Controlled) system operations can be adversely affected by any variation in resistance in the system. Such resistance variation may be caused by poor connection, improper installation, improper wire gauge or corrosion.
- The step by step voltage drop test can identify a component or wire with too much resistance.



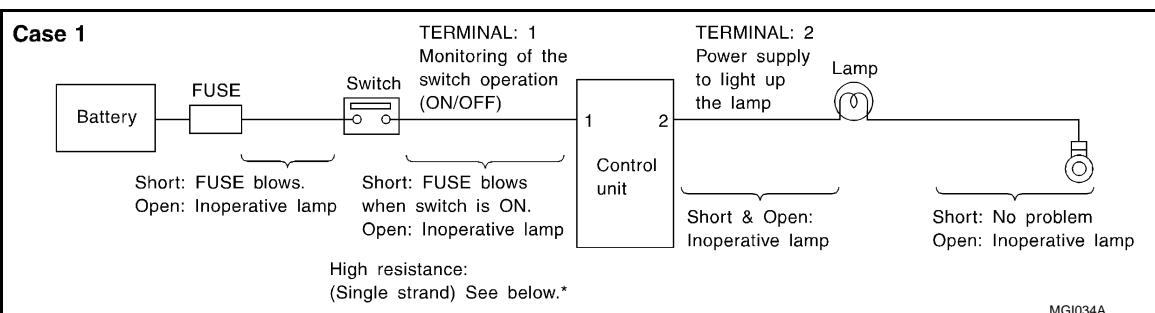
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## CONTROL UNIT CIRCUIT TEST

### System Description

- When the switch is ON, the control unit lights up the lamp.

### CASE 1



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# SERVICE INFORMATION FOR ELECTRICAL INCIDENT

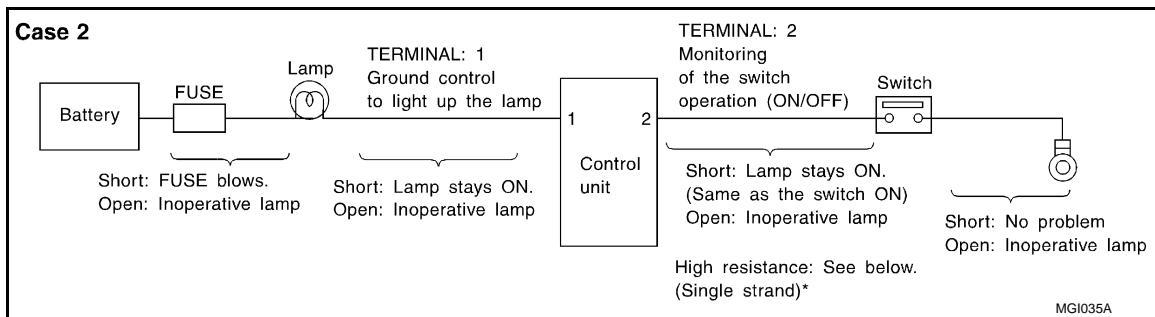
## < BASIC INSPECTION >

### INPUT-OUTPUT VOLTAGE CHART

Terminal No.		Description		Condition	Value (Approx.)	In case of high resistance such as single strand (V) *
+	-	Signal name	Input/Output			
1	Body ground	Switch	Input	Switch ON	Battery voltage	Lower than battery voltage Approx. 8 (Example)
				Switch OFF	0 V	Approx. 0
2	Body ground	Lamp	Output	Switch ON	Battery voltage	Approx. 0 (Inoperative lamp)
				Switch OFF	0 V	Approx. 0

- The voltage value is based on the body ground.
- \*: If high resistance exists in the switch side circuit (caused by a single strand), terminal 1 does not detect battery voltage. Control unit does not detect the switch is ON even if the switch does not turn ON. Therefore, the control unit does not supply power to light up the lamp.

### CASE 2



### INPUT-OUTPUT VOLTAGE CHART

Terminal No.		Description		Condition	Value (Approx.)	In case of high resistance such as single strand (V) *
+	-	Signal name	Input/Output			
1	Body ground	Lamp	Output	Switch ON	0 V	Battery voltage (Inoperative lamp)
				Switch OFF	Battery voltage	Battery voltage
2	Body ground	Switch	Input	Switch ON	0 V	Higher than 0 Approx. 4 (Example)
				Switch OFF	5 V	Approx. 5

- The voltage value is based on the body ground.
- \*: If high resistance exists in the switch side circuit (caused by a single strand), terminal 2 does not detect approx. 0 V. Control unit does not detect the switch is ON even if the switch does not turn ON. Therefore, the control unit does not control ground to light up the lamp.

# CONSULT/GST CHECKING SYSTEM

< BASIC INSPECTION >

## CONSULT/GST CHECKING SYSTEM

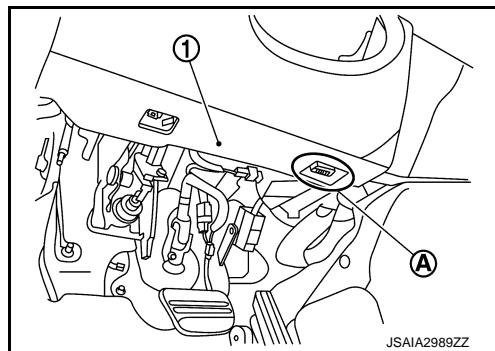
### Description

INFOID:0000000012794381

- When CONSULT/GST is connected with a data link connector A equipped on the vehicle side, it will communicate with the control unit equipped in the vehicle and then enable various kinds of diagnostic tests.

(1) : Instrument lower panel LH

- Refer to CONSULT Software Operation Manual for more information.



JSAIA2989ZZ

### CONSULT Function and System Application\*1

INFOID:0000000012794382

#### FUNCTION

Mode	Function
All DTC Reading	Display all DTCs or diagnostic items that all ECUs are recording and judging.
Work Support	This mode enables a technician to adjust some devices faster and more accurately.
Self Diagnostic Results	Retrieve DTC from ECU and display diagnostic items.
Data Monitor	Monitor the input/output signal of the control unit in real time.
CAN Diagnosis	This mode displays a network diagnosis result about CAN by diagram.
CAN Diagnosis Support Monitor	It monitors the status of CAN communication.
Active Test	Send the drive signal from CONSULT to the actuator. The operation check can be performed.
ECU Identification	Display the ECU identification number (part number etc.) of the selected system.
Configuration	Function to READ/WRITE vehicle configuration.
SRT&P-DTC Confirmation	The state of System Readiness Test (SRT) items, the presence or absence of permanent DTC*, and driving conditions can be checked.
DTC work support	DTC reproduction procedure can be performed speedily and precisely.
Others	Other results or histories, etc. that are recorded in ECU are displayed.

\*: Permanent DTC is not applied for regions where it is not mandated.

#### SYSTEM APPLICATION\*1

System	All DTC Reading	Work Support	Self Diagnostic Results	Data Monitor	CAN Diagnosis	CAN Diagnosis Support Monitor	Active Test	ECU Identification	Configuration	SRT&P-DTC Confirmation	DTC work support	Others
ENGINE	x	x	x	x	x	x <sup>6</sup>	x	x	x <sup>5</sup>	x <sup>2</sup>	x	-
TRANSMISSION	x	-	x	x	x	x	-	x	-	-	x	• CALIB DATA
AIR BAG	x	-	x	x	x	-	-	x	-	-	-	• TROUBLE DIAG RECORD
METER / M&A	x	x	x	x	x	x	-	x	-	-	-	• Warning history
BCM	x	x	x	x	x	x	x	x	x	-	-	-

# CONSULT/GST CHECKING SYSTEM

< BASIC INSPECTION >

System	All DTC Reading	Work Support	Self Diagnostic Results			Data Monitor	CAN Diagnosis	CAN Diagnosis Support Monitor	Active Test	ECU Identification	Configuration	SRT&P-DTC Confirmation	DTC work support	Others
AUTO DRIVE POS.	x	x	x	x	x		x	x	x	-	-	-	-	-
ABS	x	x	x	x	x		x	x	x	x	-	-	-	-
IPDM E/R	x	-	x	x	x		x	x	x	-	-	-	-	-
ICC / ADAS	x	x	x	x	x		x	x	x	x <sup>*3</sup>	-	-	-	-
AIR PRESSURE MONITOR	x	x	x	x	-		-	x	x	x	-	-	-	-
ALL MODE AWD/4WD	x	-	x	x	x		x	x	x	-	-	-	-	-
MULTI AV	-	x	x	x	x		x	-	x	x	-	-	-	-
TELEMATICS	x	x	x	x	x		x	-	x	x	-	-	-	-
SONAR	x	x	x	x	x		x	x	x	x	-	-	-	-
AVM	x	x	x	x	x		x	-	x	x	-	-	-	-
PRECRASH SEAT BELT	x	x	x	x	x		x	-	x	-	-	-	-	-
ADAPTIVE LIGHT	x	x	x	x	x		x	x	x	x	-	-	-	-
HVAC	-	x	x	x	x		x	x	x	x	-	-	-	-
SIDE RADAR LEFT	x	-	x	x	x		x	x	x	-	-	-	-	-
SIDE RADAR RIGHT	x	-	x	x	x		x	x	x	-	-	-	-	-
CAN GATEWAY	x	-	x	-	x		x	-	x	x	-	-	-	-
LASER/RADAR	x	x	x	x	x		x	-	x	-	-	-	-	-
LANE CAMERA	x	x	x	x	x		x	-	x	-	-	-	-	-
ACCELE PEDAL ACT	x	-	x	x	x		x	x	x	-	-	-	-	-
HIGH BEAM ASSIST	x	-	x	x	x		x	x	x	x	-	-	-	-
EPS / DAST 3	x	x <sup>*4</sup>	x	x	x		x	-	x	x <sup>*4</sup>	-	-	-	-
DAST 1	x	-	x	x	x		x	-	x	x	-	-	-	-
DAST 2	x	-	x	x	-		-	-	x	x	-	-	-	-
CHASSIS CONTROL	x	x	x	x	x		x	x	x	x	-	-	-	-
BSW / BUZZER	x	-	x	x	x		x	x	x	-	-	-	-	-
ANC	x	x	x	x	x		x	x	x	-	-	-	-	-
EMCM	x	x	x	x	x		x	-	x	-	-	-	-	-
FPCM	x	-	x	x	-		-	x	x	-	-	-	-	-

x: Applicable

\*1: If GST application is equipped, functions in accordance with SAE J1979 and ISO 15031-5 can be used.

\*2: Permanent DTC is not applied for regions where it is not mandated.

\*3: Models with FEB.

\*4: Models with direct adaptive steering.

\*5: 2.0L turbo gasoline engine

\*6: VR30DDTT engine

## CONSULT/GST Data Link Connector (DLC) Circuit

INFOID:000000012794383

## INSPECTION PROCEDURE

# CONSULT/GST CHECKING SYSTEM

## < BASIC INSPECTION >

If the CONSULT/GST cannot diagnose the system properly, check the following items.

Symptom	Check item
CONSULT/GST cannot access any system.	<ul style="list-style-type: none"><li>CONSULT/GST DLC power supply circuit (Terminal 8 and 16) and ground circuit (Terminal 4 and 5)</li></ul>
CONSULT cannot access individual system. (Other systems can be accessed.)	<ul style="list-style-type: none"><li>Power supply and ground circuit for the control unit of the system (For detailed circuit, refer to wiring diagram for each system.)</li><li>Open or short circuit between the system and CONSULT DLC (For detailed circuit, refer to wiring diagram for each system.)</li><li>Open or short circuit CAN communication line. Refer to <a href="#">LAN-41, "Trouble Diagnosis Flow Chart"</a>.</li></ul>

### NOTE:

The DDL1 and DDL2 circuits from DLC pins 12, 13, 14 and 15 may be connected to more than one system. A short in a DDL circuit connected to a control unit in one system may affect CONSULT access to other systems. If the GST cannot operate properly, check the circuit based on the information of SAE J1962 and ISO 15031-3.

GI

B

C

D

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H

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L

M

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O

P

# CONSULT/GST CHECKING SYSTEM

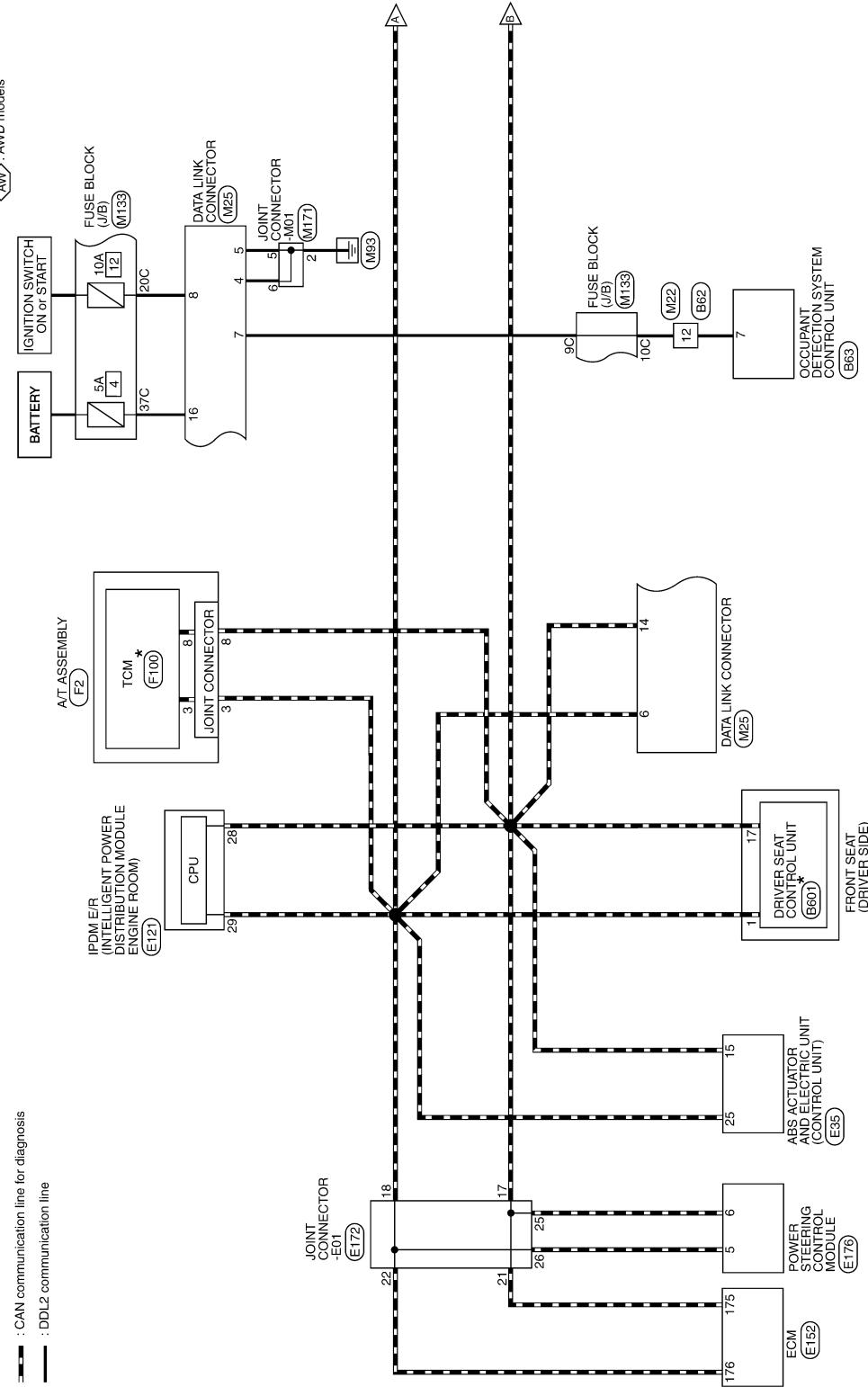
< BASIC INSPECTION >

## Wiring Diagram - CONSULT/GST CHECKING SYSTEM -

INFOID:0000000012794384

VR ENGINE WITHOUT DIRECT ADAPTIVE STEERING SYSTEM AND FEB

### CONSULT CHECKING SYSTEM (VR ENGINE WITHOUT DIRECT ADAPTIVE STEERING SYSTEM AND FEB)



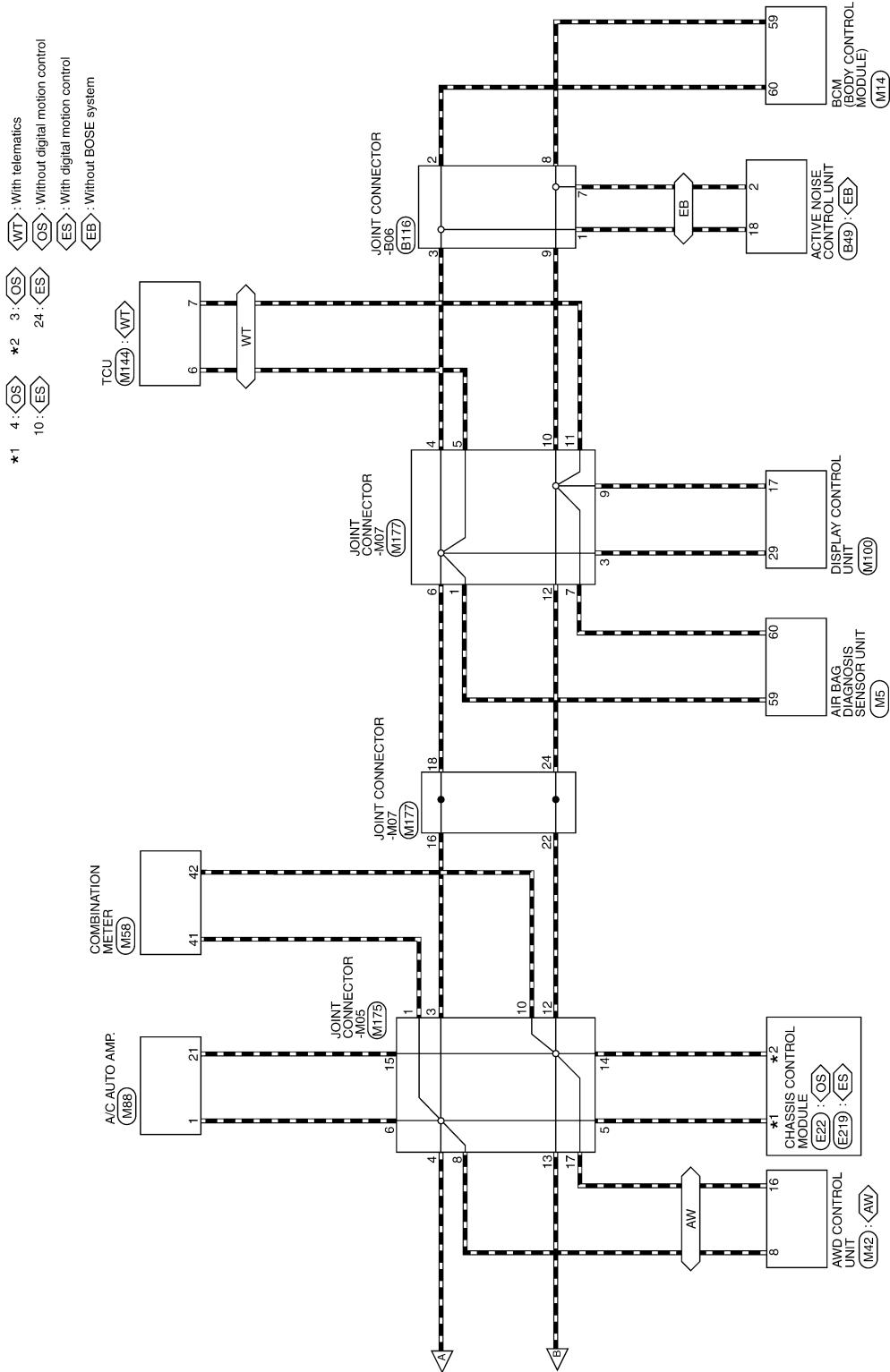
\*: This connector is not shown in "Harness Layout".

2016/02/15

JRAWC3675GB

## **CONSULT/GST CHECKING SYSTEM**

## < BASIC INSPECTION >



JRAWC3676GB

# **CONSULT/GST CHECKING SYSTEM**

## **< BASIC INSPECTION >**

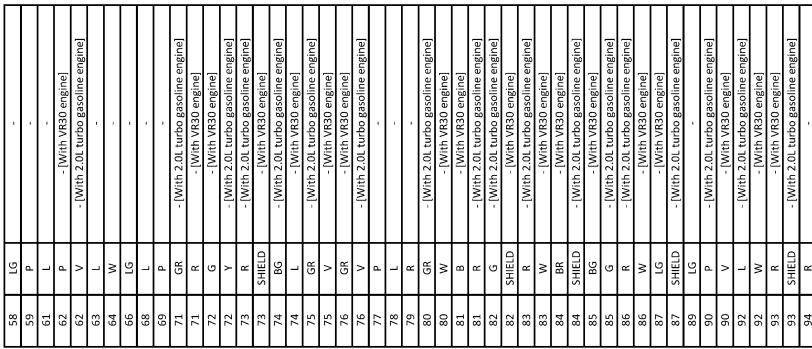
CONSULT CHECKING SYSTEM (VR ENGINE WITHOUT DIRECT ADAPTIVE STEERING SYSTEM AND FEB)

Connector No.	B49	Connector No.	B62
Connector Name	ACTIVE NOISE CONTROL UNIT	Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH	Connector Type	TH80FW-CS16-TM4



Terminal No.	Signal Name [Specification]	Color Of Wire	Terminal No.	Color Of Wire	Signal Name [Specification]
1	GND	Black	1	1	-With 2.0L turbo gasoline engine and without BOSE system
2	SHIELD	Black	1	LG	-With 2.0L turbo gasoline engine and with BOSE system
2	P	Red	1	W	[With 2.0L turbo gasoline engine and without BOSE system]
2	CAN-L [For 2.0L turbo gasoline engine]	Black	2	L	[With 2.0L turbo gasoline engine and with BOSE system]
3	R	Black	2	W	[With 2.0L turbo gasoline engine and without BOSE system]
3	CAN-H [For VRSO engine]	Black	2	LG	[With VRSO engine]
3	ENGINE TYPE SIGNAL 1	Black	2	W	[With VRSO engine]
4	B	Black	2	BR	[With 2.0L turbo gasoline engine]
8	ENGINE TYPE SIGNAL 2	Black	2	BR	[With 2.0L turbo gasoline engine]
8	G	Black	3	R	-With VRSO engine and without BOSE system
8	FRONT MICROPHONE SIGNAL (+)	Black	3	W	-With VRSO engine and with BOSE system
9	BG	Black	3	W	[With VRSO engine and without BOSE system]
12	REAR MICROPHONE SIGNAL (+)	Black	4	W	[With VRSO engine and with BOSE system]
12	G	Black	4	SHIELD	[With VRSO engine]
13	SOUND SIGNAL FRONT LH (+)	Black	4	Y	[With 2.0L turbo gasoline engine]
13	R	Black	4	Y	[With VRSO engine]
14	SOUND SIGNAL FRONT RH (+)	Black	5	G	[With 2.0L turbo gasoline engine]
14	B	Black	5	G	[With VRSO engine]
15	SOUND SIGNAL REAR LH (+)	Black	5	V	[With 2.0L turbo gasoline engine]
16	V	Black	5	V	[With VRSO engine]
16	ACC	Black	6	BR	[With 2.0L turbo gasoline engine]
18	L	Black	6	BR	[With 2.0L turbo gasoline engine and with BOSE system]
18	CAN-H	Black	7	B	[With 2.0L turbo gasoline engine and with BOSE system]
19	P	Black	7	B	[With VRSO engine and without BOSE system]
19	ENGINE SPEED SIGNAL	Black	7	BR	[With VRSO engine and with BOSE system]
20	W	Black	7	W	[With VRSO engine and without BOSE system]
23	GND	Black	7	Y	[With 2.0L turbo gasoline engine and without BOSE system]
24	R	Black	7	Y	[With VRSO engine and with BOSE system]
25	W	Black	8	B	[With VRSO engine and without BOSE system]
25	FRONT MICROPHONE SIGNAL (-)	Black	8	B	[With VRSO engine and with BOSE system]
28	L	Black	8	G	[With 2.0L turbo gasoline engine]
28	SOUND SIGNAL FRONT LH (-)	Black	8	Y	[With VRSO engine and without BOSE system]
29	L	Black	8	Y	[With VRSO engine and with BOSE system]
30	P	Black	9	W	[With 2.0L turbo gasoline engine]
30	SOUND SIGNAL REAR LH (-)	Black	9	LG	[With VRSO engine and with BOSE system]
31	W	Black	9	SHIELD	[With VRSO engine]
32	V	Black	9	SHIELD	[With VRSO engine]
32	BAT	Black			[With VRSO engine]

58	LG	-	-
59	P	-	-
61	L	-	[With VR30 engine]
62	P	-	[With 2.0L turbo gasoline engine]
62	V	-	[With 2.0L VR30 engine]
63	L	-	-
64	W	-	-
66	LG	-	-
68	L	-	-
69	P	-	[With 2.0L VR30 engine]
71	GR	-	[With 2.0L turbo gasoline engine]
71	R	-	[With VR30 engine]
72	G	-	[With VR30 engine]
72	Y	-	[With 2.0L turbo gasoline engine]
73	R	-	[With 2.0L VR30 engine]
73	SHIELD	-	[With 2.0L VR30 engine]
74	BG	-	[With 2.0L VR30 engine]
74	L	-	[With VR30 engine]
75	GR	-	[With 2.0L VR30 engine]
75	V	-	[With VR30 engine]
76	GR	-	[With VR30 engine]
76	V	-	[With 2.0L VR30 engine]
77	P	-	-
78	L	-	-
79	R	-	[With 2.0L VR30 engine]
80	GR	-	[With VR30 engine]
80	W	-	[With VR30 engine]
81	B	-	[With VR30 engine]
81	R	-	[With 2.0L VR30 engine]
82	G	-	[With 2.0L VR30 engine]
82	SHIELD	-	[With 2.0L VR30 engine]
83	R	-	[With 2.0L VR30 engine]
83	W	-	[With VR30 engine]
84	BR	-	[With VR30 engine]
84	SHIELD	-	[With 2.0L VR30 engine]
85	BG	-	[With VR30 engine]
85	G	-	[With 2.0L VR30 engine]
85	R	-	[With 2.0L VR30 engine]
86	W	-	[With VR30 engine]
87	LG	-	[With 2.0L VR30 engine]
87	SHIELD	-	[With 2.0L VR30 engine]
89	LG	-	-
90	P	-	[With 2.0L VR30 engine]
90	V	-	[With VR30 engine]
92	L	-	[With 2.0L VR30 engine]
92	W	-	[With VR30 engine]
93	R	-	[With 2.0L VR30 engine]
93	SHIELD	-	[With 2.0L VR30 engine]
94	R	-	[With 2.0L VR30 engine]



IBAWC3677CB

# CONSULT/GST CHECKING SYSTEM

**< BASIC INSPECTION >**

## CONSULT CHECKING SYSTEM (VR ENGINE WITHOUT DIRECT ADAPTIVE STEERING SYSTEM AND FEB)

Terminal No.	Color Of Wire	Signal Name [Specification]
95	L	- (With 2.0L turbo gasoline engine) - (With VR30 engine)
96	Y	- (With VR30 gasoline engine) - (With VR30 engine)
96	W	- (With VR30 engine) - (With VR30 engine)
97	L	- (With VR30 engine)
97	R	- (With 2.0L turbo gasoline engine and with BOSE system) - (With 2.0L turbo gasoline engine and without BOSE system)
97	W	- (With 2.0L turbo gasoline engine and with BOSE system) - (With 2.0L turbo gasoline engine and without BOSE system)
98	LG	-
99	BR	- (With VR30 engine and with BOSE system) - (With VR30 engine)
99	P	- (With 2.0L turbo gasoline engine) - (Without Gateway)
99	Y	- (With VR30 engine and without BOSE system) - (With VR30 engine)
100	BR	- (With VR30 engine)
100	W	- (With 2.0L turbo gasoline engine)
101	V	- (With 2.0L turbo gasoline engine) - (With VR30 engine)
102	V	- (With VR30 engine)
103	P	- (With VR30 engine)
104	R	- (Without Gateway)
105	R	- (With VR30 engine)
106	V	- (Without Gateway)
107	V	- (With VR30 engine)
108	R	- (With VR30 engine)
109	V	- (With VR30 engine)
110	V	- (With 2.0L turbo gasoline engine)
111	V	- (With VR30 engine)
112	P	- (With VR30 engine)
113	R	- (Without Gateway)
114	SHIELD	-
115	B	- (With 2.0L turbo gasoline engine) - (With VR30 engine)
116	SHIELD	- (With VR30 engine)
117	L	- (With 2.0L turbo gasoline engine) - (With VR30 engine)
118	L	- (With 2.0L turbo gasoline engine) - (With VR30 engine)
119	L	- (With 2.0L turbo gasoline engine) - (With VR30 engine)
120	V	COMMUNICATION
121	R	IGN
122	S	CND
123	Y	KLINE

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

Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	CAN-H (Without Gateway)
2	R	CAN-L (Without Gateway)
3	R	CAN-H (With Gateway)
4	P	CAN-L (With Gateway)
5	V	PULSE (RECLINER)
6	GY	PULSE (TELESCOPIC)
7	G	ADDRESS 2
8	V	IND 2
9	V	SIDE SW BACKWARD
10	W	RECLINER SW (BACKWARD)
11	O	TIFFER SW (DOWNWARD)
12	G	TIFFER SW (UPWARD)
13	S8	POWER SUPPLY (ENCODER)
14	GY	CAN-L
15	GY	PULSE (GLIDE SENSOR)
16	GY	PULSE (LIFTER, FRONT)
17	SB	PULSE (LIFTER, REAR)
18	SB	PULSE (TILT SENSOR)
19	W	ADDRESS 1
20	GY	IND 1
21	SB	SIDE SW FORWARD
22	O	RECLINER SW (FORWARD)
23	W	TIFFER SW (UPWARD)
24	P	TIFFER SW (DOWNWARD)
25	Y	SET SW
26	GY	RECUPERATOR SW (FORWARD)
27	L	RECUPERATOR SW (UPWARD)
28	Y	RECUPERATOR SW (DOWNWARD)

Terminal No.	Color Of Wire	Signal Name [Specification]
1	GY	RECUPERATOR SW (DOWNWARD)
2	GY	RECUPERATOR SW (FORWARD)
3	GY	RECUPERATOR SW (UPWARD)
4	GY	RECUPERATOR SW (UPWARD)
5	GY	RECUPERATOR SW (DOWNWARD)
6	GY	RECUPERATOR SW (FORWARD)
7	GY	RECUPERATOR SW (DOWNWARD)
8	GY	RECUPERATOR SW (FORWARD)
9	GY	RECUPERATOR SW (UPWARD)
10	GY	RECUPERATOR SW (UPWARD)
11	GY	RECUPERATOR SW (DOWNWARD)
12	GY	RECUPERATOR SW (FORWARD)
13	GY	RECUPERATOR SW (DOWNWARD)
14	GY	RECUPERATOR SW (UPWARD)
15	GY	RECUPERATOR SW (UPWARD)
16	GY	RECUPERATOR SW (DOWNWARD)
17	GY	RECUPERATOR SW (FORWARD)
18	GY	RECUPERATOR SW (DOWNWARD)
19	GY	RECUPERATOR SW (UPWARD)
20	GY	RECUPERATOR SW (UPWARD)
21	GY	RECUPERATOR SW (DOWNWARD)
22	GY	RECUPERATOR SW (FORWARD)
23	GY	RECUPERATOR SW (DOWNWARD)
24	GY	RECUPERATOR SW (UPWARD)
25	GY	RECUPERATOR SW (FORWARD)
26	GY	RECUPERATOR SW (UPWARD)
27	GY	RECUPERATOR SW (DOWNWARD)
28	GY	RECUPERATOR SW (FORWARD)

Terminal No.	Color Of Wire	Signal Name [Specification]
1	GY	RECUPERATOR SW (DOWNWARD)
2	GY	RECUPERATOR SW (FORWARD)
3	GY	RECUPERATOR SW (UPWARD)
4	GY	RECUPERATOR SW (UPWARD)
5	GY	RECUPERATOR SW (DOWNWARD)
6	GY	RECUPERATOR SW (FORWARD)
7	GY	RECUPERATOR SW (DOWNWARD)
8	GY	RECUPERATOR SW (UPWARD)
9	GY	RECUPERATOR SW (UPWARD)
10	GY	RECUPERATOR SW (DOWNWARD)
11	GY	RECUPERATOR SW (FORWARD)
12	GY	RECUPERATOR SW (DOWNWARD)
13	GY	RECUPERATOR SW (UPWARD)
14	GY	RECUPERATOR SW (UPWARD)
15	GY	RECUPERATOR SW (DOWNWARD)
16	GY	RECUPERATOR SW (FORWARD)
17	GY	RECUPERATOR SW (DOWNWARD)
18	GY	RECUPERATOR SW (UPWARD)
19	GY	RECUPERATOR SW (UPWARD)
20	GY	RECUPERATOR SW (DOWNWARD)
21	GY	RECUPERATOR SW (FORWARD)
22	GY	RECUPERATOR SW (DOWNWARD)
23	GY	RECUPERATOR SW (UPWARD)
24	GY	RECUPERATOR SW (FORWARD)
25	GY	RECUPERATOR SW (UPWARD)
26	GY	RECUPERATOR SW (DOWNWARD)
27	GY	RECUPERATOR SW (FORWARD)
28	GY	RECUPERATOR SW (DOWNWARD)

Terminal No.	Color Of Wire	Signal Name [Specification]
1	GY	RECUPERATOR SW (DOWNWARD)
2	GY	RECUPERATOR SW (FORWARD)
3	GY	RECUPERATOR SW (UPWARD)
4	GY	RECUPERATOR SW (UPWARD)
5	GY	RECUPERATOR SW (DOWNWARD)
6	GY	RECUPERATOR SW (FORWARD)
7	GY	RECUPERATOR SW (DOWNWARD)
8	GY	RECUPERATOR SW (UPWARD)
9	GY	RECUPERATOR SW (UPWARD)
10	GY	RECUPERATOR SW (DOWNWARD)
11	GY	RECUPERATOR SW (FORWARD)
12	GY	RECUPERATOR SW (DOWNWARD)
13	GY	RECUPERATOR SW (UPWARD)
14	GY	RECUPERATOR SW (UPWARD)
15	GY	RECUPERATOR SW (DOWNWARD)
16	GY	RECUPERATOR SW (FORWARD)
17	GY	RECUPERATOR SW (DOWNWARD)
18	GY	RECUPERATOR SW (UPWARD)
19	GY	RECUPERATOR SW (UPWARD)
20	GY	RECUPERATOR SW (DOWNWARD)
21	GY	RECUPERATOR SW (FORWARD)
22	GY	RECUPERATOR SW (DOWNWARD)
23	GY	RECUPERATOR SW (UPWARD)
24	GY	RECUPERATOR SW (FORWARD)
25	GY	RECUPERATOR SW (UPWARD)
26	GY	RECUPERATOR SW (DOWNWARD)
27	GY	RECUPERATOR SW (FORWARD)
28	GY	RECUPERATOR SW (DOWNWARD)

Connector No. E35

Connector Name RECUPERATOR SW (DOWNWARD)

Connector Type Sa230fb-2024-j

Connector No. E35

Connector Name RECUPERATOR SW (FORWARD)

Connector Type Sa230fb-2024-j

Connector No. E35

Connector Name RECUPERATOR SW (UPWARD)

Connector Type Sa230fb-2024-j

Connector No. E35

Connector Name RECUPERATOR SW (UPWARD)

Connector Type Sa230fb-2024-j

# **CONSULT/GST CHECKING SYSTEM**

## **< BASIC INSPECTION >**

CONSULT CHECKING SYSTEM (VR ENGINE WITHOUT DIRECT ADAPTIVE STEERING SYSTEM AND FEB)

Terminal No.	Color Of Wire	Signal Name [Specification]		
1	B	GND		
2	B	GND		
3	G	VALVE BATTERY [With VR30 engine]		
3	P	VALVE BATTERY [With 2.0L turbo gasoline engine]		
4	Y	MOTOR BATTERY		
5	IG	STOP AMP SW SIGNAL [With ADAS]		
5	V	STOP LAMP SW SIGNAL [With ASCD]		
7	GR	RR LH WHEEL SENSOR SIGNAL		
8	G	RR RH WHEEL SENSOR SIGNAL		
9	BR	FR LH WHEEL SENSOR SIGNAL		
10	GR	FR RH WHEEL SENSOR POWER SUPPLY		
12	R	VACUUM SENSOR SIGNAL		
15	P	CAN-L [Without Gateway]		
15	R	CAN-H [Without Gateway]		
17	Y	RR RH WHEEL SENSOR POWER SUPPLY [With VR30 engine]		
18	LG	RR RH WHEEL SENSOR POWER SUPPLY [Without VR30 engine]		
18	V	RR RH WHEEL SENSOR POWER SUPPLY [With VR30 engine]		
19	SB	FR LH WHEEL SENSOR SIGNAL		
20	BG	FR LH WHEEL SENSOR POWER SUPPLY		
25	L	CAN-H		
28	G	VACUUM SENSOR POWER SUPPLY		
30	R	VDC OFF SW SIGNAL		
32	SHIELD	VACUUM SENSOR GROUND		
34	G	(IN)		
Terminal No.	Color Of Wire	Signal Name [Specification]		
29	L	-		
31	G	-		
32	SB	-		
33	SB	-		
34	Y	-		
35	G	-		
36	SB	[With VR30 engine]		
36	V	[With 2.0L turbo gasoline engine]		
37	GR	-		
38	BR	-		
41	GR	-		
43	V	-		
19	B	ECM GROUND		
20	V	SENSOR GROUND		
20	Y	EBCM GROUND		
203	G	ACCELERATOR PEDAL POSITION SENSOR 1		
204	B	SENSOR GROUND		
204	B	ECM GROUND		
199	B	ECM GROUND		
200	V	SENSOR GROUND		
201	B	EBCM GROUND		
202	Y	ACCELERATOR PEDAL POSITION SENSOR 1		
203	G	SENSOR GROUND		
204	B	ECM GROUND		
204	B	IGNITION POWER SUPPLY		
204	B	CAN-H		
204	B	CAN-L		
4	R	IGNITION POWER SUPPLY		
5	L	CAN-H		
6	P	CAN-L		
1	3	4	5	6
1	5	6	7	8
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1	17	18	19	20
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1	753	754	755	756
1	757	758	759	760
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1	829	830	831	832
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1	849	850	851	852
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1	897	898	899	900
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1	913	914	915	916
1	917	918	919	920
1	921	922	923	924
1	925	926	927	928
1	929	930	931	932
1	933	934	935	936
1	937	938	939	940
1	941	942	943	944
1	945	946	947	948
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1	953	954	955	956
1	957	958	959	960
1	961	962	963	964
1	965	966	967	968
1	969	970	971	972
1	973	974	975	976
1	977	978	979	980
1	981	982	983	984</td

IRAWC3679GB

# CONSULT/GST CHECKING SYSTEM

**< BASIC INSPECTION >**

## CONSULT CHECKING SYSTEM (VR ENGINE WITHOUT DIRECT ADAPTIVE STEERING SYSTEM AND FEB)

CONSULT CHECKING SYSTEM (VR ENGINE WITHOUT DIRECT ADAPTIVE STEERING SYSTEM AND FEB)			
Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.
1	GR	IGNITION POWER SUPPLY (VR30 engine)	F100
2	B	GROUND	
3	V	DRIVE MODE SELECT SWITCH (UP)	
4	P	CAN-L (Without Gateway)	
5	R	CAN-L (With Gateway)	
6	G	-	
7	V	ACTUATOR (RLH)	
8	R	ACTUATOR (FRL)	
9	Y	-	
10	BR	-	
11	GR	-	
12	Y	-	
13	BR	-	
14	Y	-	
15	GR	-	
16	Y	-	
17	BR	-	
18	Y	-	
19	BR	ECZS-	
20	Y/R	ACT_VENT+	
21	Y/B	ACT_VENT-	
22	SHIELD	GND	
23	V	AIRBAG W/L	
24	G	-	
25	GR	AIR OFF_IND	
26	R	SATELLITE(RH(+))	
27	R	SIDE_SENS_RH2-	
28	V	SIDE_SENS_LH2-	
29	L	IVCS	
30	GR	CAN-H	
31	BR	CAN_L	
32	R	-	
33	Y	-	
34	L	-	
35	GR	-	
36	Y	-	
37	BR	-	
38	R	-	
39	Y	-	
40	BR	-	
41	R	-	
42	Y	-	
43	BR	-	
44	R	-	
45	Y	-	
46	BR	-	
47	R	-	
48	Y	-	
49	BR	-	
50	R	-	
51	Y	-	
52	BR	-	
53	R	-	
54	Y	-	
55	BR	-	
56	R	-	
57	Y	-	
58	BR	-	
59	R	-	
60	Y	-	
61	BR	-	
62	R	-	
63	Y	-	
64	BR	-	
65	R	-	
66	Y	-	
67	W/R	-	
68	R	IGN_BLAZE(B/RC)CONT	
69	GR	DIMMER	
70	B	AI/SHIFT SELECT TWIST SPFL	
71	G	IGN_RLAY(IFDM/F/R)CONT	
72	SB	DR DOOR REG SW	
73	Y	PASS DOOR REQ SW	
74	BR	COMB SW INPUT 5	
75	BR	COMB SW INPUT 6	
76	BR	COMB SW INPUT 7	
77	V	ECZS-	
78	Y	COMB SW INPUT 2	
79	LG	TRI_ID_OHNC_SW	
80	L	-	

JRAWC3680GB

# CONSULT/GST CHECKING SYSTEM

**< BASIC INSPECTION >**

**CONSULT CHECKING SYSTEM (VR ENGINE WITHOUT DIRECT ADAPTIVE STEERING SYSTEM AND FEB)**

Connector No.	Signal Name [Specification]	Terminal No.	Color Of Wire
21 R	-	59 SB	-
22 V	-	61 L	R
23 L	-	62 P	W
24 BG	- (With 2.0L turbo gasoline engine)	62 V	- (With VR30 engine)
24 V	- (With VR30 engine)	63 L	L
25 L	- (With 2.0L turbo gasoline engine)	64 W	R
25 SB	- (With VR30 engine)	66 R	BR
26 G	- (With VR30 engine)	68 L	-
26 W	- (With 2.0L turbo gasoline engine)	69 P	P
27 R	-	71 GR	- (With VR30 engine)
29 LG	-	71 R	- (With VR30 engine)
30 SB	- (With VR30 engine)	72 G	- (With VR30 engine)
30 W	- (With 2.0L turbo gasoline engine)	72 V	- (With 2.0L turbo gasoline engine)
31 SHIELD	-	73 SHIELD	- (With VR30 engine)
32 L	- (With VR30 engine)	74 L	- (With VR30 engine)
33 LG	- (With 2.0L turbo gasoline engine)	74 LG	- (With 2.0L turbo gasoline engine)
34 SHIELD	-	75 P	-
35 LG	- (With VR30 engine)	76 SB	- (With 2.0L turbo gasoline engine)
35 W	- (With 2.0L turbo gasoline engine)	76 V	- (With VR30 engine)
36 R	- (With VR30 engine)	77 Y	-
36 V	- (With 2.0L turbo gasoline engine)	78 L	-
37 R	- (With VR30 engine)	79 GR	-
37 V	- (With 2.0L turbo gasoline engine)	80 W	- (With VR30 engine)
38 W	-	80 B	- (With VR30 engine)
39 P	- (With VR30 engine and without BOSE system)	81 R	- (With 2.0L turbo gasoline engine)
39 R	- (With 2.0L turbo gasoline engine)	82 G	- (With VR30 engine and with BOSE system)
39 V	- (With VR30 engine and with BOSE system)	82 SHIELD	- (With VR30 engine)
40 G	-	83 R	- (With 2.0L turbo gasoline engine)
41 L	-	83 W	- (With VR30 engine)
42 R	-	84 BB	- (With VR30 engine)
43 SHIELD	-	84 SHIELD	- (With 2.0L turbo gasoline engine)
44 P	-	85 BR	- (With VR30 engine)
45 B	- (With 2.0L turbo gasoline engine)	85 G	- (With 2.0L turbo gasoline engine)
45 G	- (With VR30 engine)	86 R	- (With 2.0L turbo gasoline engine)
47 G	-	86 V	- (With VR30 engine)
48 BG	- Except with VR30 engine and with BOSE system	87 LG	- (With VR30 engine)
48 BR	- (With VR30 engine and with BOSE system)	87 SHIELD	- (With VR30 engine)
49 G	-	89 BR	-
50 V	-	89 LG	- (With 2.0L turbo gasoline engine)
51 V	- (With 2.0L turbo gasoline engine)	90 SB	- (With 2.0L turbo gasoline engine)
52 L	- (With 2.0L turbo gasoline engine)	90 V	- (With VR30 engine)
52 Y	- (With VR30 engine)	92 L	- (With 2.0L turbo gasoline engine)
53 R	-	92 W	- (With VR30 engine)
54 GR	-	93 R	- (With VR30 engine)
55 L	-	93 SHIELD	- (With 2.0L turbo gasoline engine)
56 P	-	94 R	-
57 R	-	95 L	- (With 2.0L turbo gasoline engine)
58 LG	-	95 Y	- (With VR30 engine)

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# CONSULT/GST CHECKING SYSTEM

**< BASIC INSPECTION >**

## CONSULT CHECKING SYSTEM (VR ENGINE WITHOUT DIRECT ADAPTIVE STEERING SYSTEM AND FEB)

Connector No.		M100		Connector No.		M144	
Connector Name	DISPLAY CONTROL UNIT	Connector Name	TCU	Connector Type	TH40FVN-H	Connector Type	TH40FBN-H
48 LG	AV COMMUNICATION SIGNAL (L)	17C L	-	17C L	-	17C L	-
51 BR	FUEL LEVEL SENSOR SIGNAL	18C BG	-	18C P	-	18C P	-
52 B	GROUND	19C B	-	19C B	-	19C B	-
		20C W	-	20C W	-	20C W	-
		21C L	-	21C L	-	21C L	-
		22C L	-	22C L	-	22C L	-
		23C L	-	23C L	-	23C L	-
		24C G	-	24C G	-	24C G	-
		25C P	-	25C P	-	25C P	-
		26C S	-	26C S	-	26C S	-
		27C P	-	27C P	-	27C P	-
		28C W	-	28C W	-	28C W	-
		29C W	-	29C W	-	29C W	-
		20C R	-	20C R	-	20C R	-
16 LG	AV COMM (L)	30C R	-	30C R	-	30C R	-
17 P	CAN-H	31C W	-	31C W	-	31C W	-
19 R	DIMMER SIGNAL	32C R	-	32C R	-	32C R	-
20 BR	REVERSE SIGNAL	33C B	-	33C B	-	33C B	-
22 B	GND	34C R	-	34C R	-	34C R	-
26 BR	CAMERA SWITCH SIGNAL	35C W/B	-	35C W/B	-	35C W/B	-
28 SB	AV COMM (H)	36C R	-	36C R	-	36C R	-
29 L	CAN-L	37C W	-	37C W	-	37C W	-
30 R	[IGN] [For 2.0L turbo gasoline engine]	38C SB	-	38C SB	-	38C SB	-
31 R	VEHICLE SPEED SIGNAL (8-PULSE)	39C V	-	39C V	-	39C V	-
33 V	ACC POWER SUPPLY (WITH VR30 engines)	30C SB	-	30C SB	-	30C SB	-
33 V	ACC (Excent for VR30 engine and with SS)	31C P	-	31C P	-	31C P	-
34 Y	ACC (For VR30 engine and with SS)	40C G	-	40C G	-	40C G	-
	BATTERY POWER SUPPLY	41C P	-	41C P	-	41C P	-
7 G	AMBIENT SENSOR SIGNAL	42C P	-	42C P	-	42C P	-
9 R	SUNLOAD SENSOR SIGNAL	43C W	-	43C W	-	43C W	-
13 SB	ACC POWER SUPPLY (WITH 2.0L turbo gasoline engine)	44C R	-	44C R	-	44C R	-
13 V	ACC POWER SUPPLY (WITH VR30 engines)	45C V	-	45C V	-	45C V	-
16 P	LINE SIGNAL	46C G	-	46C G	-	46C G	-
17 R	DOOR MOTOR POWER SUPPLY	47C P	-	47C P	-	47C P	-
18 P	BLOWER MOTOR CONTROL SIGNAL	48C P	-	48C P	-	48C P	-
20 L	HEATED STEERING WHEEL RELAY CONTROL SIGNAL	49C P	-	49C P	-	49C P	-
21 P	CAN-L	50C G	-	50C G	-	50C G	-
22 B	GROUND	51C G	-	51C G	-	51C G	-
23 R	IGNITION POWER SUPPLY (WITH VR30 engine and with SS)	52C G	-	52C G	-	52C G	-
23 W	IGNITION POWER SUPPLY (WITH VR30 engine and with SS)	53C V	-	53C V	-	53C V	-
26 B	SENSOR GROUND						
27 LG	IN-VEHICLE SENSOR SIGNAL						
28 BR	INTAKE SENSOR SIGNAL						
30 BG	EXHAUST GAS (OUTSIDE) DETECTING SENSOR SIGNAL						
37 B	GROUND						
38 BG	IONIZER (ON/OFF) CONTROL SIGNAL						
40 BG	ECV CONTROL SIGNAL						

JRAWC3682GB

# CONSULT/GST CHECKING SYSTEM

**< BASIC INSPECTION >**

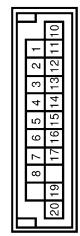
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## CONSULT CHECKING SYSTEM (VR ENGINE WITHOUT DIRECT ADAPTIVE STEERING SYSTEM AND FEB)

Connector No.	M171
Connector Name	JOINT CONNECTOR M01
Connector Type	24342_6G2A



Connector No.	M175
Connector Name	JOINT CONNECTOR M05
Connector Type	NH00F-DC



Terminal No.	Color Of Wire	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-	1	L	-
2	B	-	2	L	-
3	G	-	3	L	-
4	B	-	4	L	-
5	B	-	5	L	-
6	B	-	6	L	-
7	B	-	7	P	-
8	G	-	8	L	-
9	B	-	10	P	-
10	G	-	11	P	-
11	G	-	12	P	-
14	B	-	13	P	-
15	B	-	14	P	-
16	Sb	[With VR30 engine] - [With 2.0L turbo gasoline engine]	15	P	- [With VR30 engine] - [With 2.0L turbo gasoline engine]
16	Y	- [With VR30 engine] - [With 2.0L turbo gasoline engine]	16	R	- [With 2.0L turbo gasoline engine] - [With VR30 engine]
17	Sb	- [With VR30 engine] - [With 2.0L turbo gasoline engine]	17	P	- [With 2.0L turbo gasoline engine] - [With VR30 engine]
18	Sb	- [With VR30 engine] - [With 2.0L turbo gasoline engine]	17	R	- [With 2.0L turbo gasoline engine] - [With VR30 engine and with IS5]
18	Y	- [With VR30 engine] - [With 2.0L turbo gasoline engine]	19	R	[With VR30 engine and with IS5] - [Except with VR30 engine and with IS5]
19	G	-	19	W	- [Except with VR30 engine and with IS5] - [With VR30 engine and with IS5]
20	G	-	20	R	- [With VR30 engine and with IS5] - [Except with VR30 engine and with IS5]
22	LG	- [With VR30 engine]	20	W	- [With VR30 engine and with IS5] - [Except with VR30 engine and with IS5]
22	Sb	- [With 2.0L turbo gasoline engine]	22	P	- [With VR30 engine] - [With 2.0L turbo gasoline engine]
23	LG	- [With VR30 engine]	23	P	- [With VR30 engine] - [With 2.0L turbo gasoline engine]
23	Sb	- [With 2.0L turbo gasoline engine]	24	P	- [With VR30 engine] - [With 2.0L turbo gasoline engine]
24	LG	- [With VR30 engine]			
24	Sb	- [With 2.0L turbo gasoline engine]			

Terminal No.	Color Of Wire	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]
17	Y	- [With VR30 engine] - [With 2.0L turbo gasoline engine]	17	P	- [With VR30 engine] - [With 2.0L turbo gasoline engine]
18	Sb	- [With VR30 engine] - [With 2.0L turbo gasoline engine]	17	R	- [With VR30 engine] - [With 2.0L turbo gasoline engine]
18	Y	- [With VR30 engine] - [With 2.0L turbo gasoline engine]	19	R	[With VR30 engine and with IS5] - [Except with VR30 engine and with IS5]
19	G	-	19	W	- [Except with VR30 engine and with IS5] - [With VR30 engine and with IS5]
20	G	-	20	R	- [With VR30 engine and with IS5] - [Except with VR30 engine and with IS5]
22	LG	- [With VR30 engine]	20	W	- [With VR30 engine and with IS5] - [Except with VR30 engine and with IS5]
22	Sb	- [With 2.0L turbo gasoline engine]	22	P	- [With VR30 engine] - [With 2.0L turbo gasoline engine]
23	LG	- [With VR30 engine]	23	P	- [With VR30 engine] - [With 2.0L turbo gasoline engine]
23	Sb	- [With 2.0L turbo gasoline engine]	24	P	- [With VR30 engine] - [With 2.0L turbo gasoline engine]
24	LG	- [With VR30 engine]			
24	Sb	- [With 2.0L turbo gasoline engine]			

JRAWC3683GB

# CONSULT/GST CHECKING SYSTEM

< BASIC INSPECTION >

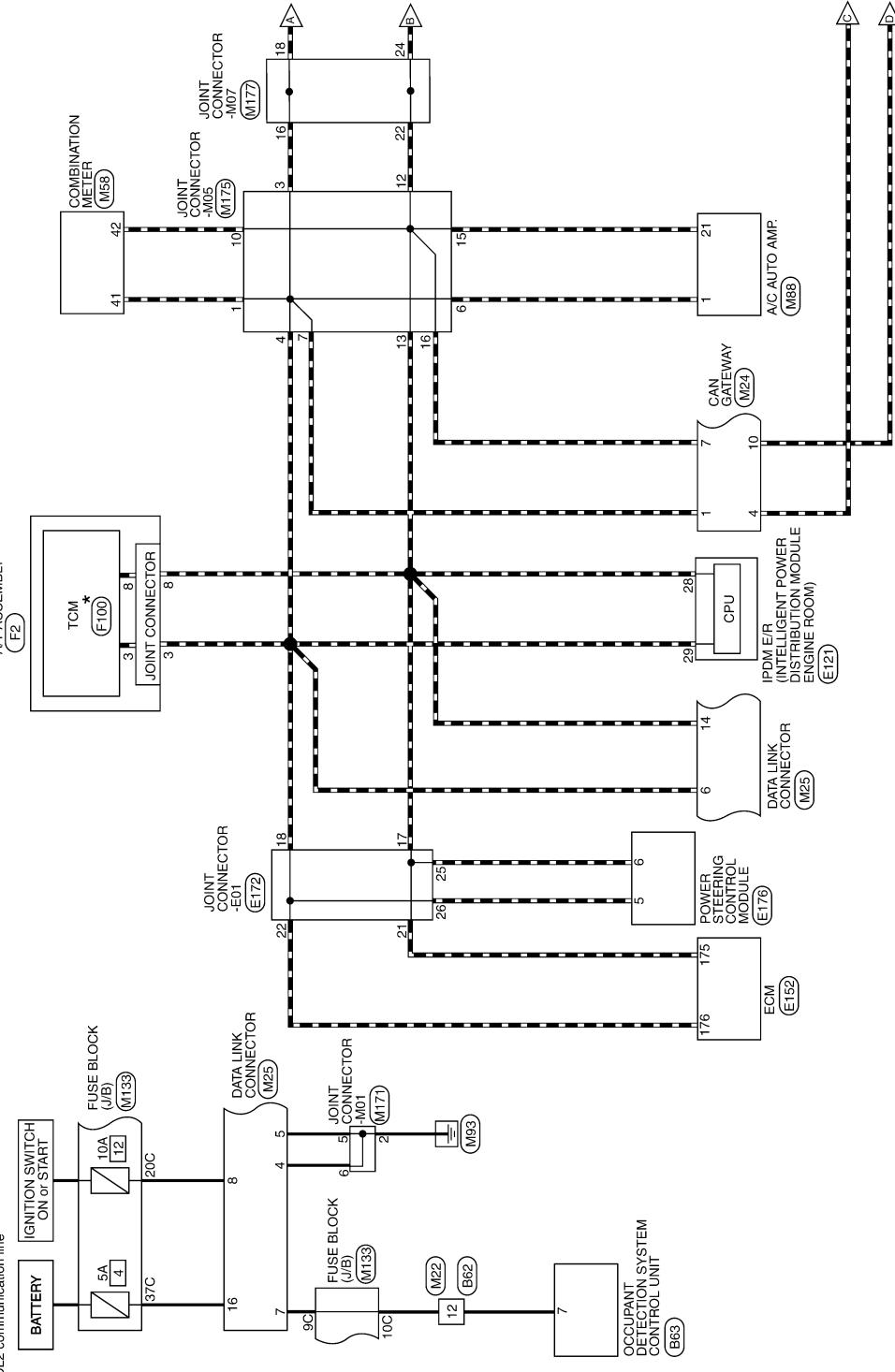
VR ENGINE WITHOUT DIRECT ADAPTIVE STEERING SYSTEM WITH FEB

## CONSULT CHECKING SYSTEM (VR ENGINE WITHOUT DIRECT ADAPTIVE STEERING SYSTEM WITH FEB)

(AW : AWD models)

AT ASSEMBLY

— : CAN communication line for diagnosis  
— : DDL2 communication line



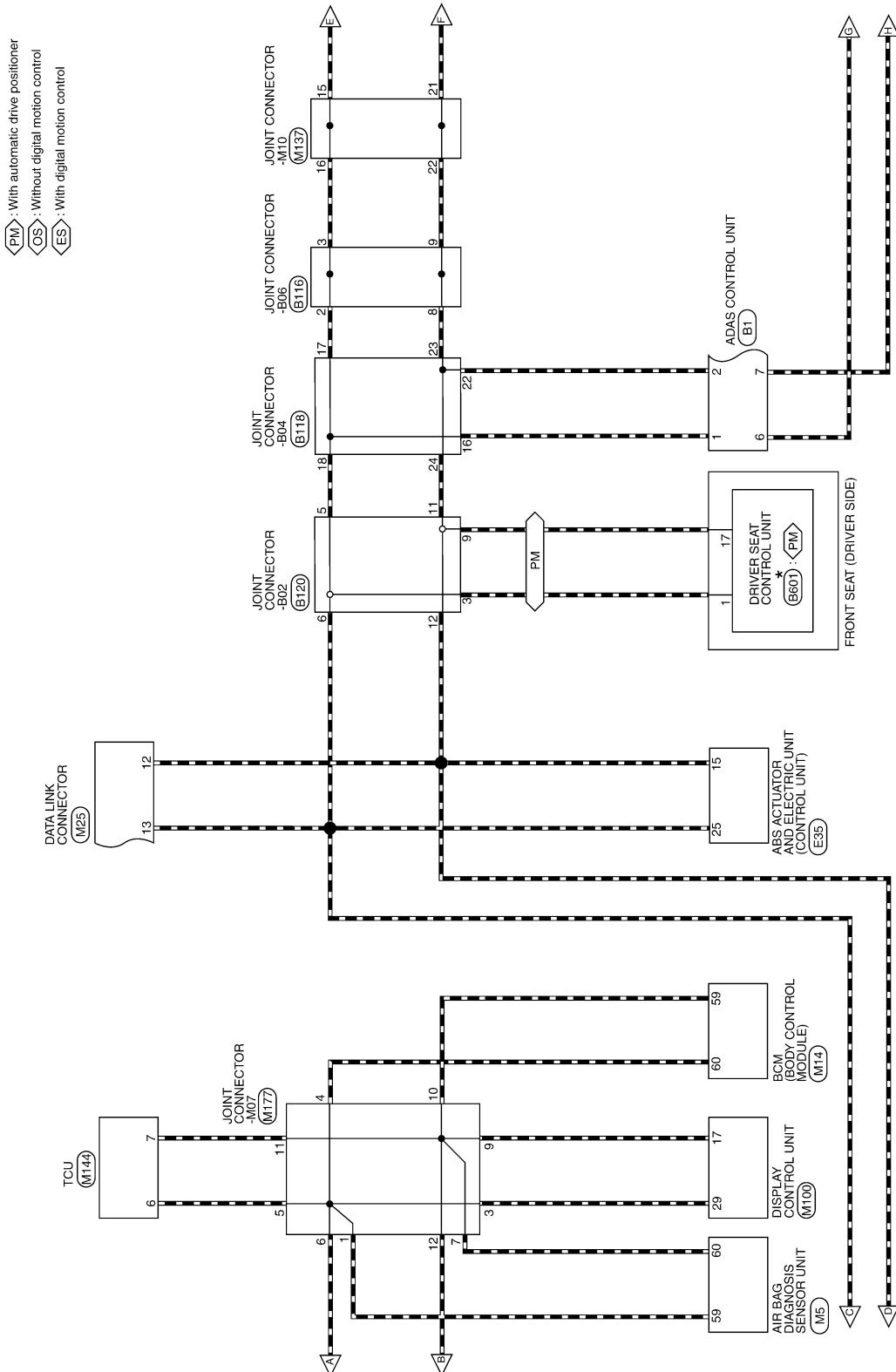
\* : This connector is not shown in "Harness Layout".

2016/02/15

JRAWC3684GB

# CONSULT/GST CHECKING SYSTEM

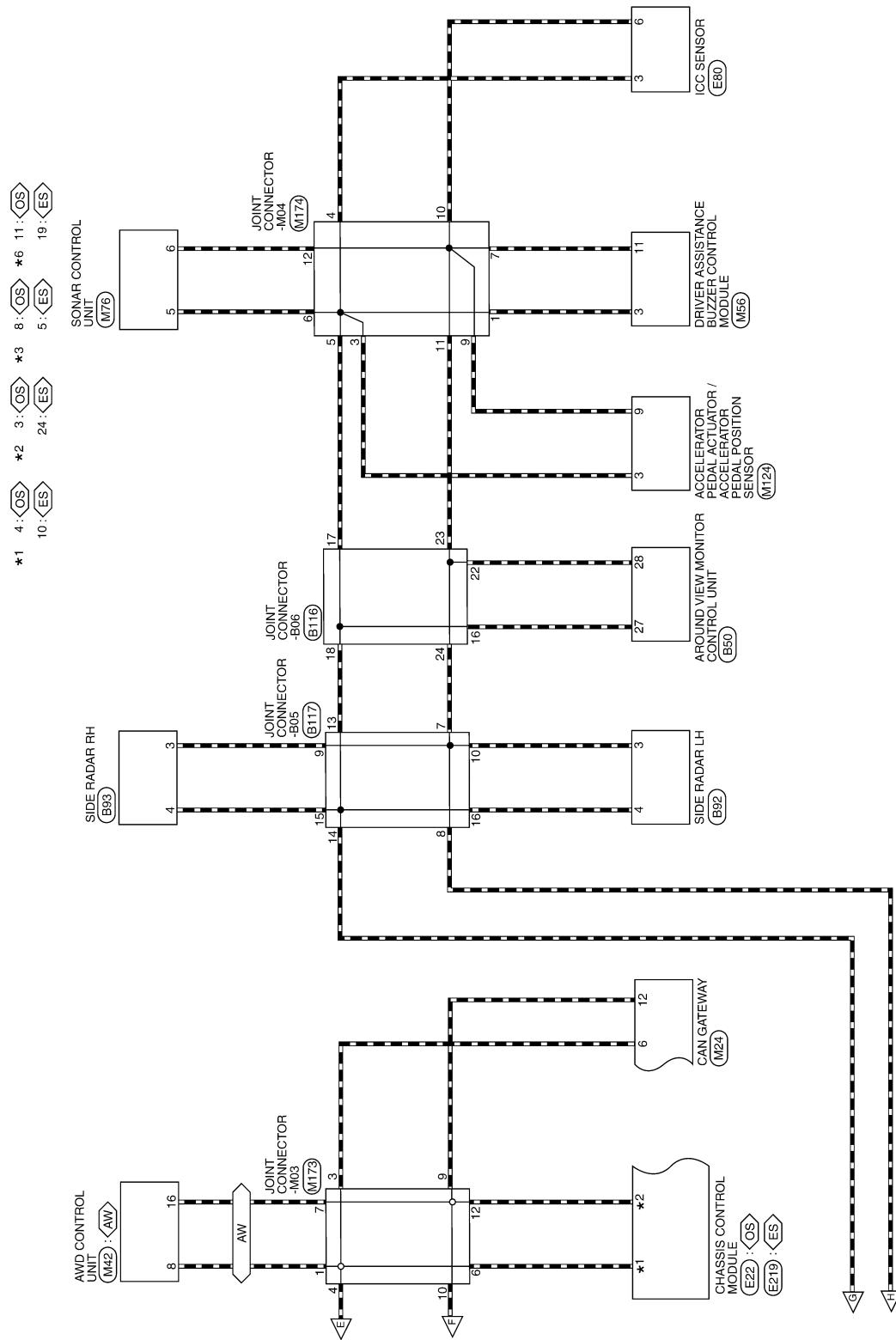
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# CONSULT/GST CHECKING SYSTEM

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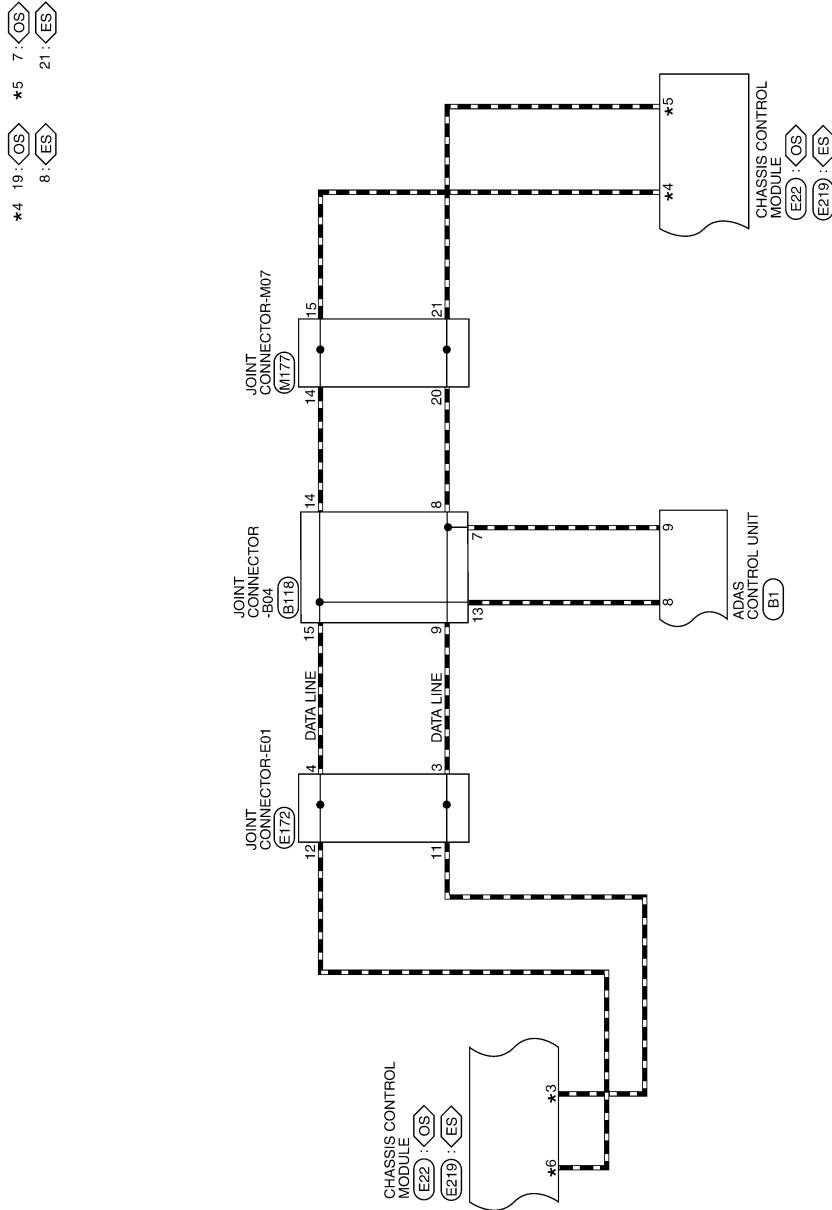
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# CONSULT/GST CHECKING SYSTEM

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JRAWC3687GB

# CONSULT/GST CHECKING SYSTEM

**< BASIC INSPECTION >**

## CONSULT CHECKING SYSTEM (VR ENGINE WITHOUT DIRECT ADAPTIVE STEERING SYSTEM WITH FEB)

Connector No.	B1	Terminal Color Of Wire	Signal Name [Specification]	Color Of No. Wire	Signal Name [Specification]
Connector Name	ADAS CONTROL UNIT	25	BG	REVERSE SIGNAL	-
Connector Type	TH24FW-NH	27	L	CAN-H	-
		28	P	CAN-L (Without ADAS) For VR30 engine	-
		28	R	CAN-L (With ADAS)	- [With 2.0L turbo gasoline engine]
		28	Y	CAN-L (Without ADAS) [For 2.0L turbo gasoline engine]	- [With VR30 engine]
		29	B	CAN GND	-
		30	W	REFRACT MOTOR OPERATING SIGNAL (OPEN)	-
		32	G	REFRACT MOTOR OPERATING SIGNAL (CLOSE)	-
Connector No..	B62	12	V	-	-
Connector Name	WIRE TO WIRE	13	R	-	-
Connector Type	TH8DFW-T516/TM4	14	BG	-	-
		15	GR	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]
		16	V	-	- [With VR30 engine]
		17	P	-	-
		18	L	-	-
		19	R	-	-
		20	GR	-	-
		21	R	-	-
		22	V	-	-
		23	W	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]
		24	VG	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]
		25	L	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]
		25	SB	- [With VR30 engine]	-
		26	W	- [With VR30 engine]	-
		27	R	-	-
		29	LG	-	-
		30	LG	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]
		31	SHIELD	-	- [With VR30 engine]
		32	L	-	- [With 2.0L turbo gasoline engine]
		33	B	-	- [With 2.0L turbo gasoline engine]
		33	LG	- [With VR30 engine]	- [With VR30 engine]
		34	SHIELD	-	- [With VR30 engine]
		35	LG	- [With VR30 engine]	- [With VR30 engine]
		35	W	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]
		36	R	-	- [With VR30 engine]
		36	W	- [With VR30 engine and without BOSE system]	- [With VR30 engine]
		37	P	- [With 2.0L turbo gasoline engine and without BOSE system]	- [With VR30 engine]
		37	R	- [With VR30 engine]	-
		38	W	- [With 2.0L turbo gasoline engine and with BOSE system]	-
		39	P	- [With VR30 engine and without BOSE system]	- [With VR30 engine]
		39	R	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]
		39	W	- [With VR30 engine and with BOSE system]	- [With VR30 engine]
		40	G	-	- [With VR30 engine and with BOSE system]
		41	L	-	- [With VR30 engine and with BOSE system]
		42	R	-	- [With VR30 engine and with BOSE system]
		43	SHIELD	-	- [With VR30 engine and with BOSE system]
		44	P	-	- [With VR30 engine]
		45	B	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]
		45	Y	- [With VR30 engine and without BOSE system]	- [With VR30 engine]
		45	LG	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]
		46	SHIELD	-	- [With VR30 engine]
		47	G	-	- [With 2.0L turbo gasoline engine]
		48	BG	-	- [With VR30 engine]
		49	G	-	- [With VR30 engine]
		50	V	-	- [With VR30 engine]
		51	GR	-	- [With VR30 engine]
		52	W	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]
		52	Y	-	- [With VR30 engine]
		53	R	-	- [With VR30 engine]
		54	GR	-	- [With VR30 engine]
		55	L	-	- [With VR30 engine]
		56	V	-	- [With VR30 engine]
		57	R	-	- [With VR30 engine]
		58	LG	-	- [With VR30 engine]
		59	P	-	- [With VR30 engine]
		61	L	-	- [With VR30 engine]
		62	P	-	- [With VR30 engine]
		62	V	-	- [With VR30 engine]
		63	LG	-	- [With VR30 engine]
		64	W	-	- [With VR30 engine]
		66	LG	-	- [With VR30 engine]
		68	L	-	- [With VR30 engine]
		69	P	-	- [With VR30 engine]
		71	GR	-	- [With VR30 engine]
		71	R	-	- [With VR30 engine]
		72	G	-	- [With VR30 engine]
		72	Y	-	- [With VR30 engine]
		73	R	-	- [With VR30 engine]
		73	SHEILD	-	- [With VR30 engine]
		74	LG	-	- [With VR30 engine]
		74	L	-	- [With VR30 engine]
		75	GR	-	- [With VR30 engine]
		75	V	-	- [With VR30 engine]
		76	GR	-	- [With VR30 engine]
		76	V	-	- [With VR30 engine]
		77	P	-	- [With VR30 engine]
		78	L	-	- [With VR30 engine]
		79	R	-	- [With VR30 engine]
		80	GR	-	- [With VR30 engine]
		80	W	-	- [With VR30 engine]
		81	B	-	- [With VR30 engine]
		81	R	-	- [With VR30 engine]
		81	W	-	- [With VR30 engine]
		82	SHEILD	-	- [With VR30 engine]
		83	R	-	- [With VR30 engine]
		83	W	-	- [With VR30 engine]
		84	BR	-	- [With VR30 engine]
		84	SHEILD	-	- [With VR30 engine]
		85	BG	-	- [With VR30 engine]
		85	G	-	- [With VR30 engine]
		86	R	-	- [With VR30 engine]
		86	W	-	- [With VR30 engine]

# **CONSULT/GST CHECKING SYSTEM**

## **< BASIC INSPECTION >**

**CONSULT CHECKING SYSTEM (VR ENGINE WITHOUT DIRECT ADAPTIVE STEERING SYSTEM WITH FEB)**

Terminal	Color Of Wire	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND	1	L	-
2	B	[With VR30 engine]	2	L	-
3	R	[With 2.0L turbo gasoline engine and with BOSE system]	3	L	-
4	L	[With 2.0L turbo gasoline engine and without BOSE system]	4	L	-
5	GR	[With VR30 engine]	5	L	-
6	BR	[With VR30 engine and with BOSE system]	6	L	-
7	R	[With 2.0L turbo gasoline engine]	7	R	-
8	R	[With VR30 engine]	8	R	-
9	R	[Without Gateway]	9	V	-
10	R	[Without Gateway]	10	V	-
11	V	[Without Gateway]	11	P	-
12	P	[Without Gateway]	12	P	-
13	R	-	13	L	-
14	SHIELD	-	14	L	-
15	B	[With 2.0L turbo gasoline engine]	15	L	-
16	L	[With VR30 engine]	16	L	-
17	L	[With VR30 engine]	17	L	-
18	L	[With 2.0L turbo gasoline engine]	18	B	-
19	L	[With VR30 engine]	19	B	-
20	B	[With 2.0L turbo gasoline engine]	20	B	-
21	B	[With VR30 engine]	21	SHIELD	-
22	B	[With VR30 engine]	22	SHIELD	-
23	SHIELD	[With VR30 engine]	23	SHIELD	-
24	SHIELD	-	24	P	-
25	P	-	25	P	-
26	Y	[With VR30 engine]	26	Y	-
27	Y	[With VR30 engine]	27	Y	-

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# **CONSULT/GST CHECKING SYSTEM**

## **< BASIC INSPECTION >**



CONSULT CHECKING SYSTEM (VR ENGINE WITHOUT DIRECT ADAPTIVE STEERING SYSTEM WITH FEB)

Connector No.	B118	Connector Name	JOINT CONNECTOR-B04	Connector Type	24342-5G2A	Connector No.	E22	Connector Name	CHASSIS CONTROL MODULE	Connector Type	TR24FW/NH
	19	L	-	[With 2.0L turbo gasoline engine]	21	B	-	[With 2.0L turbo gasoline engine]			
	19	SHELD	-	[With VR30 engine]	21	GR	-	[With VR30 engine]			
	20	L	-	[With 2.0L turbo gasoline engine]	22	W	-				
	20	SHELD	-	[With VR30 engine]	23	W	-				
	21	L	-	[With 2.0L turbo gasoline engine]	24	W	-				
	21	SHELD	-	[With VR30 engine]							



Connector No. B120

Terminal	Color Of Wire	Signal Name [Specification]
3	P	CAN-L [Without Gateway]
3	R	CAN-N [With Gateway]
4	L	CAN-H[With VR3 engine]
5	V	DRIVE MODE SELECT [Up] (With VR3 engine)



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[L1-L2-L3-L4-L5-L6-L7-L8-L9-L10-L11-L12-L13-L14]		[L1-L2-L3-L4-L5-L6-L7-L8-L9-L10-L11-L12-L13-L14]	
[L1-L2-L3-L4-L5-L6-L7-L8-L9-L10-L11-L12-L13-L14]		[L1-L2-L3-L4-L5-L6-L7-L8-L9-L10-L11-L12-L13-L14]	
No.	Wire	No.	Wire
1	L	1	CAN-H
2	BR	2	UART (TX/RX)
3	R	3	START SW
4	P	4	PULSE (RECLINER)
5	V	5	PULSE (TELESCOPIC)
No.	Signal Name [Specification]	No.	Signal Name [Specification]
1	R	-	-



- [With VR30 engine]



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# CONSULT/GST CHECKING SYSTEM

**< BASIC INSPECTION >**

## CONSULT CHECKING SYSTEM (VR ENGINE WITHOUT DIRECT ADAPTIVE STEERING SYSTEM WITH FEB)

Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	Connector Name	Connector Type	Connector No.	Connector Name	Connector Type
1	R	GND	E121	FROM/IN INTELLIGENT POWER DISTRIBUTION MODULE ENGINE		E172	JOINT CONNECTOR E01	
2	B	VALVE BATTERY [With VR30 engine]						
3	G	VALVE BATTERY [With VR30 engine]						
4	P	VALVE BATTERY [With 2.0L turbo gasoline engine]						
5	Y	STOP/LAMP SW SIGNAL [With ADAS]						
5	V	STOP/LAMP SW SIGNAL [With ADAS]						
7	GR	RR/LH WHEEL SENSOR SIGNAL						
8	G	RR/LH WHEEL SENSOR POWER SUPPLY						
9	BR	FR/RH WHEEL SENSOR SIGNAL						
10	GR	FR/RH WHEEL SENSOR POWER SUPPLY						
13	R	VACUUM SENSOR SIGNAL						
15	P	CAN-L (Without gateway)						
15	R	CAN-L (With gateway)						
17	Y	RR/RH WHEEL SENSOR SIGNAL						
18	LG	RR/RH WHEEL SENSOR POWER SUPPLY [With 2.0L turbo gasoline engine]						
18	V	RR/RH WHEEL SENSOR POWER SUPPLY [With VR30 engine]						
19	SB	FR/LH WHEEL SENSOR SIGNAL						
20	BG	FR/LH WHEEL SENSOR POWER SUPPLY						
25	L	CAN-H						
28	G	VACUUM SENSOR POWER SUPPLY						
30	S	VDC OFF SW SIGNAL						
32	SHIELD	VACUUM SENSOR GROUND						
34	G	IGN						
36	SB	-						
36	W	- [With VR30 engine]						
37	GR	- [With 2.0L turbo gasoline engine]						
38	BR	-						
41	GR	-						
43	V	-						
			E80					
			ICC SENSOR					
			Ax208FB					

Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	Signal Name [Specification]	Connector No.	Signal Name [Specification]
1	R	IGNITION				
3	L	IIS COMM-H				
6	Y	IIS COMM-L				
8	B	GROUND				

Terminal No.	Color Of Wire	Signal Name [Specification]	Connector No.	Signal Name [Specification]	Connector No.	Signal Name [Specification]
173	SB	FUEL TANK PRESSURE SENSOR	CAN-L	CAN-L	1	GR
175	P	SENSOR POWER SUPPLY [FUEL TANK PRESSURE SENSOR]	CAN-H	CAN-H	3	W
177	L	TACHO METER SIGNAL			4	Y
178	V	FUEL TANK TEMPERATURE SENSOR			5	GR
180	P	FUEL PUMP CONTROL MODULE [FPCM] CHECK			6	Y
182	W	IGNITION SWITCH			7	W
185	SB	ASD STEERING SWITCH			8	L
186	BG	SENSOR GROUND [ASD STEERING SWITCH]			9	GR
187	Y	FUEL PUMP CONTROL MODULE [FPCM]			10	-
188	Y	ENGINE COMMUNICATION LINE-L			11	W
189	Y	ENGINE COMMUNICATION LINE-H			12	L
191	P	STOP LAMP SWITCH			15	W
192	BG	Brake Pedal Position Switch			16	BG
193	GR	ECM GROUND			18	L
193	LG	ECM GROUND			19	W
194	W	SENSOR POWER SUPPLY			20	BG
195	BR	ACCELERATOR PEDAL POSITION SENSOR 2			21	P
196	R	SENSOR GROUND [ACCELERATOR PEDAL POSITION SENSOR 2]			22	L
197	R	ECM POWER SUPPLY			23	SB
198	L	- [Color of wire differs depending on production]			24	W
199	B	- [Color of wire differs depending on production]			24	LG
200	V	- [Color of wire differs depending on production]			25	P
202	Y	ACCELERATOR PEDAL POSITION SENSOR 1			26	L
203	G	SENSOR GROUND			27	Y
204	B	ECM GROUND			28	L

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# CONSULT/GST CHECKING SYSTEM

**< BASIC INSPECTION >**

## CONSULT CHECKING SYSTEM (VR ENGINE WITHOUT DIRECT ADAPTIVE STEERING SYSTEM WITH FEEB)

Connector No.	EL76	Signal Name [Specification]	Terminal Color Of Wire	Color Name [Specification]	Terminal Color Of Wire	Color Name [Specification]	Terminal Color Of Wire	Color Name [Specification]
Connector Name	POWER STEERING CONTROL MODULE		23	V	22	DRIVE MODE SELECT SWITCH (UP)	BR	ECZS-
Connector Type	RS04FB-PR		23	B	GROUND		V/R	ACT_VENT+
Connector No.	F100		24	P	CAN L (Without Gateway)	TCW	Y/B	ACT_VENT-
Connector Name	CAN-L (Without Gateway)		24	R	CAN-H (Without Gateway)	SPJ01G	GND	GND
Connector Type	RS04FB-PR		25	G	(GN)		V	ARMING/WL
Connector No.	F2		26	V	ACTUATOR (RL+H)		G	-
Connector Name	A/T ASSEMBLY		28	R	ACTUATOR (RL-L)		GR	A/B_OFF_IND
Connector Type	RK10FG-DGY						51	SATELLITE (RH2+)
							52	SIDE SEN BH2-
							53	SIDE SEN LH2-
							54	SIDE SEN LH2-
							57	IACS
							59	CAN-H
							60	CAN-L

Connector No.	E219	Signal Name [Specification]	Terminal Color Of Wire	Color Name [Specification]	Terminal Color Of Wire	Color Name [Specification]	Terminal Color Of Wire	Color Name [Specification]
Connector Name	CHASSIS CONTROL MODULE		1	R	IGNITION POWER SUPPLY	CAN-H	2	BATTERY POWER SUPPLY (MEMORY BACK UP)
Connector Type	TH28FW		5	L	CANH	K-LINE	3	-
Connector No.	EL76		6	P	CANH	K-LINE	4	-
Connector Name	IGNITION POWER SUPPLY (With 2.0l turbo gasoline engine)		7	R	IGNITION POWER SUPPLY (With VR30 engine)	CAN-L	5	-
Connector Type	RS04FB-PR		8	P	BATTERY POWER SUPPLY (MEMORY BACK UP)	GROUND	6	IGNITION POWER SUPPLY
Connector No.	F2		9	V	CANH	K-LINE	7	BACK-UP LAMP RELAY
Connector Name	A/T ASSEMBLY		10	B	GROUND	GROUND	8	STARTER RELAY
Connector Type	RK10FG-DGY						9	CAN-L
							10	

Connector No.	M5	Signal Name [Specification]	Terminal Color Of Wire	Color Name [Specification]	Terminal Color Of Wire	Color Name [Specification]	Terminal Color Of Wire	Color Name [Specification]
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT		1	R	IGNITION POWER SUPPLY	CAN-H	2	BATTERY POWER SUPPLY
Connector Type	NH28FW-EX		5	B	GROUND (With 2.0l turbo gasoline engine)	CAN-L	3	IGNITION POWER SUPPLY
Connector No.	EL76		6	BR	GROUND (With VR30 engine)	GROUND	4	IGNITION POWER SUPPLY
Connector Name	IGNITION POWER SUPPLY		7	BR	BACK-UP LAMP RELAY	CAN-L	5	IGNITION POWER SUPPLY
Connector Type	RS04FB-PR		8	P	CAN-L	K-LINE	6	IGNITION POWER SUPPLY
Connector No.	F2		9	V	STARTER RELAY	GROUND	7	IGNITION POWER SUPPLY
Connector Name	BACK-UP LAMP RELAY		10	B	GROUND	GROUND	8	IGNITION POWER SUPPLY
Connector Type	RK10FG-DGY						9	IGNITION POWER SUPPLY
							10	

Connector No.	DN1 (L)	Signal Name [Specification]	Terminal Color Of Wire	Color Name [Specification]	Terminal Color Of Wire	Color Name [Specification]	Terminal Color Of Wire	Color Name [Specification]
Connector Name	CHASSIS COMM-L		1	LG	IGN	GND	2	IGN
Connector Type	RS04FB-PR		2	B	DRL (L)	IGN	3	Y/R
Connector No.	EL76		6	B	CHASSIS COMM-L (Color of wire differs depending on production)	IGN	4	Y/R
Connector Name	CHASSIS COMM-L (Color of wire differs depending on production)		8	BR	CHASSIS COMM-L (Color of wire differs depending on production)	IGN	5	Y
Connector Type	RS04FB-PR		9	G	CHASSIS COMM-L (Color of wire differs depending on production)	IGN	6	Y
Connector No.	F2		10	I	CHASSIS COMM-L (Color of wire differs depending on production)	IGN	7	Y/R
Connector Name	CHASSIS COMM-L (Color of wire differs depending on production)		12	G	ACTUATOR (FRH)	IGN	8	Y
Connector Type	RK10FG-DGY		13	G	ESS RELAY	IGN	9	Y
Connector No.	EL76		14	L	ACTUATOR (RL-L)	IGN	10	Y
Connector Name	ACTUATOR (RL-L)		15	Y	ACTUATOR (FRH)	IGN	11	Y
Connector Type	RK10FG-DGY		17	V	ACTUATOR (RL-L)	IGN	12	Y
Connector No.	F2		19	L	CHASSIS COMM-H	IGN	13	Y
Connector Name	CHASSIS COMM-H		21	W	CHASSIS COMM-L	IGN	14	Y
Connector Type	RK10FG-DGY						15	Y
							16	ECZS+
							17	COMBI SW INPUT 5
							18	COMBI SW INPUT 4
							19	COMBI SW INPUT 3
							20	ECZS-
							21	ACT_VENT-
							22	GND
							23	V
							24	GR
							25	GR
							26	GR
							27	GR
							28	GR
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# CONSULT/GST CHECKING SYSTEM

**< BASIC INSPECTION >**

**CONSULT CHECKING SYSTEM (VR ENGINE WITHOUT DIRECT ADAPTIVE STEERING SYSTEM WITH FEB)**

Terminal	Color Of Wire	Signal Name [Specification]	Connector No.	Wire To Wire	Connector Type	Connector Name	Connector Type	Terminal	Color Of Wire	Signal Name [Specification]	Connector No.	Wire To Wire	Connector Type	Connector Name	Connector Type
77	V	COMBI SW INPUT 3	21	R	-	-	-	59	SB	-	96	R	-	(With 2.0L turbo gasoline engine)	-
78	Y	COMBI SW INPUT 2	22	V	-	-	-	61	L	-	96	W	-	(With VR30 engine)	-
79	LG	COMBI SW INPUT 1	23	L	-	-	-	62	P	-	97	L	-	(With VR30 engine)	-
80	L	TR HID OPNR SW	24	BG	-	[With 2.0L turbo gasoline engine]	-	63	V	-	97	R	-	(With 2.0L turbo gasoline engine)	-
			24	V	-	[With VR30 engine]	-	64	L	-	98	BR	-	[With VR30 engine and with BOSE system]	-
			25	L	-	[With VR30 gasoline engine]	-	65	W	-	99	BR	-	[With 2.0L turbo gasoline engine]	-
			25	SB	-	[With VR30 engine]	-	66	R	-	99	P	-	[With VR30 engine and without BOSE system]	-
			26	G	-	[With 2.0L turbo gasoline engine]	-	68	L	-	99	Y	-	[With VR30 engine and without BOSE system]	-
			26	W	-	[With 2.0L turbo gasoline engine]	-	69	P	-	100	BR	-	[With VR30 engine]	-
			27	R	-	[With 2.0L turbo gasoline engine]	-	71	GR	-	100	W	-	[With 2.0L turbo gasoline engine]	-
			29	LG	-	[With VR30 engine]	-	71	R	-	71	G	-	[With VR30 engine]	-
			30	SB	-	[With 2.0L turbo gasoline engine]	-	72	V	-	72	V	-	[With 2.0L turbo gasoline engine]	-
			30	W	-	[With 2.0L turbo gasoline engine]	-	73	LG	-	73	SHIELD	-	[With 2.0L turbo gasoline engine]	-
			31	SHIELD	-	[With VR30 engine]	-	74	LG	-	74	LG	-	[With VR30 engine]	-
			32	L	-	[With VR30 engine]	-	75	P	-	75	P	-	[With 2.0L turbo gasoline engine]	-
			32	LG	-	[With VR30 engine]	-	76	V	-	76	V	-	[With VR30 engine]	-
			33	LG	-	[With VR30 engine]	-	77	Y	-	77	Y	-	[With VR30 engine]	-
			34	SHIELD	-	[With VR30 engine]	-	78	L	-	78	L	-	[With VR30 engine]	-
			35	LG	-	[With VR30 engine]	-	79	GR	-	79	GR	-	[With 2.0L turbo gasoline engine]	-
			35	W	-	[With 2.0L turbo gasoline engine]	-	80	W	-	80	W	-	[With VR30 engine]	-
			36	R	-	[With VR30 engine]	-	81	B	-	81	B	-	[With VR30 engine]	-
			36	V	-	[With VR30 engine]	-	81	R	-	82	SHIELD	-	[With VR30 engine]	-
			37	R	-	[With 2.0L turbo gasoline engine]	-	82	G	-	82	G	-	[With 2.0L turbo gasoline engine]	-
			37	V	-	[With 2.0L turbo gasoline engine]	-	83	R	-	83	R	-	[With 2.0L turbo gasoline engine]	-
			38	P	-	[With VR30 engine and without BOSE system]	-	83	W	-	84	BR	-	[With VR30 engine]	-
			38	W	-	[With VR30 engine and without BOSE system]	-	84	SHIELD	-	84	SHIELD	-	[With 2.0L turbo gasoline engine]	-
			39	R	-	[With 2.0L turbo gasoline engine]	-	85	BR	-	85	BR	-	[With 2.0L turbo gasoline engine]	-
			39	P	-	[With 2.0L turbo gasoline engine]	-	85	G	-	86	G	-	[With 2.0L turbo gasoline engine]	-
			39	V	-	[With VR30 engine and with BOSE system]	-	86	R	-	86	R	-	[With 2.0L turbo gasoline engine]	-
			40	G	-	[With VR30 engine]	-	87	V	-	87	LG	-	[With VR30 engine]	-
			41	L	-	[With VR30 engine]	-	87	W	-	87	W	-	[With VR30 engine]	-
			42	R	-	[With 2.0L turbo gasoline engine]	-	88	BR	-	88	BR	-	[With VR30 engine]	-
			43	SHIELD	-	[With VR30 engine]	-	89	BR	-	89	BR	-	[With 2.0L turbo gasoline engine]	-
			44	P	-	[With 2.0L turbo gasoline engine]	-	89	G	-	90	LG	-	[With 2.0L turbo gasoline engine]	-
			45	B	-	[With 2.0L turbo gasoline engine]	-	90	S	-	90	S	-	[With 2.0L turbo gasoline engine]	-
			45	G	-	[With VR30 engine]	-	90	V	-	90	V	-	[With VR30 engine]	-
			46	SHIELD	-	[With 2.0L turbo gasoline engine]	-	91	LG	-	91	LG	-	[With VR30 engine]	-
			47	G	-	[With VR30 engine]	-	92	LG	-	92	LG	-	[With VR30 engine]	-
			48	LG	-	[With VR30 engine]	-	92	BR	-	92	BR	-	[With 2.0L turbo gasoline engine]	-
			48	BR	-	[With VR30 engine and with BOSE system]	-	93	R	-	93	R	-	[With VR30 engine]	-
			49	G	-	[With VR30 engine and with BOSE system]	-	93	SHIELD	-	93	SHIELD	-	[With 2.0L turbo gasoline engine]	-
			50	V	-	[With VR30 engine]	-	94	R	-	94	R	-	[With 2.0L turbo gasoline engine]	-
			51	V	-	[With VR30 engine]	-	95	L	-	95	L	-	[With 2.0L turbo gasoline engine]	-
			52	L	-	[With 2.0L turbo gasoline engine]	-	95	Y	-	95	Y	-	[With VR30 engine]	-
			53	Y	-	[With VR30 engine]	-								
			53	R	-	[With VR30 engine]	-								
			54	GR	-	[With VR30 engine]	-								
			55	L	-	[With VR30 engine]	-								
			56	P	-	[With VR30 engine]	-								
			57	R	-	[With VR30 engine]	-								
			58	LG	-	[With VR30 engine]	-								
			20	GR	-	-	-								

# **CONSULT/GST CHECKING SYSTEM**

## **< BASIC INSPECTION >**

**CONSULT CHECKING SYSTEM (VR ENGINE WITHOUT DIRECT ADAPTIVE STEERING SYSTEM WITH FEB)**

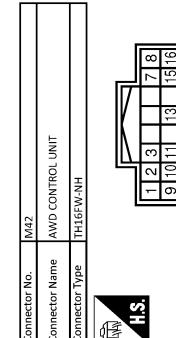
Connector No.	Connector Name	Pin	Pin Name	Function	Pin	Pin Name	Function
M45	DATA LINK CONNECTOR	1.3	LG	FLUID TEMP. (-)	4.7	S8	AV COMMUNICATION SIGNAL(H)
BD16W	CONNECTOR TYPE	1.5	W	BATTERY POWER SUPPLY	4.8	LG	AV COMMUNICATION SIGNAL(L)
		1.6	R	CANL [Without Gateway]	5.1	BR	FUEL LEVEL SENSOR SIGNAL
				CANH [Without Gateway]		B	GROUND



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



Terminal No.	Color Of Wire	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]
3	LG	N_CAN_L	1	L	CAN_H
4	B	EARTH	2	B	GROUND



Terminal No.	Color Of Wire	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	AWD SOL (+)	41	L	CAN H
2	Y	AWD SOL (-)	42	P	CAN L
3	W/B	FLUID TPL (-)	43	B	ILLUMINATION CONTROL SIGNAL
7	G	IGN	44	Y	BATTERY POWER GROUND
8	L	CAN SOL-BAT	45	W	BATTERY POWER SUPPLY
9	BG	AWD SOL-BAT	46	R	IGNITION SIGNAL (With V30 engine and without ISS)
10	I	GND	47	GRN	IGNITION SIGNAL (Without V30 engine and with ISS)
11	B	GND	48	BLK	IGNITION SIGNAL (Without V30 engine and without ISS)

JRAWC3694GB

# CONSULT/GST CHECKING SYSTEM

**< BASIC INSPECTION >**

## CONSULT CHECKING SYSTEM (VR ENGINE WITHOUT DIRECT ADAPTIVE STEERING SYSTEM WITH FEB)

Connector No.	M100	Terminal Color Of Wire	Signal Name [Specification]	Terminal Color Of Wire	Signal Name [Specification]
Connector Name	DISPLAY CONTROL UNIT	7	B	GROUND	-
Connector Type	TH24FW-NH	9	Y	ITS COMM-L	-
		10	L	-	-
		11	R	3SC	V
		12	BR	3C	P
				40C	G
				4C	P
				5C	P
				6C	G
				7C	G
				8C	G
				9C	V
Connector No.	M133				
Connector Name	FUSE BLOCK (J/B)				
Connector Type	TH40FW-NH				
Terminal No.	16 17 19 20 22 26 29 31 33 34				
Terminal No.	17 20 21 22 23 24				
Terminal No.	18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34				
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# CONSULT/GST CHECKING SYSTEM

**< BASIC INSPECTION >**

## CONSULT CHECKING SYSTEM (VR ENGINE WITHOUT DIRECT ADAPTIVE STEERING SYSTEM WITH FEB)

Connector No.	Connector No.	Connector Name	Connector Name	Connector No.	Connector Name	Connector Type
M171	M173	JOINT CONNECTOR-M01	JOINT CONNECTOR-M03	M175	JOINT CONNECTOR-M05	
Connector Name	Connector Name	Connector Type	Connector Type	Connector Name	Connector Name	Connector Type
24342_4G02A	24342_4G04	24342_4G02A	24342_4G04	N420FE1-DC	N420FE1-DC	
						
Terminal Color Of Wire No.	Signal Name [Specification]	Terminal Color Of Wire No.	Signal Name [Specification]	Terminal Color Of Wire No.	Signal Name [Specification]	Terminal Color Of Wire No.
1. B	-	1. L	-	1. L	-	1. L
2. S	-	2. L	-	2. L	-	2. L
3. B	-	3. L	-	3. L	-	3. L
4. B	-	4. L	-	4. L	-	4. L
5. B	-	5. L	-	5. L	-	5. L
6. B	-	6. L	-	6. L	-	6. L
7. B	-	7. R	-	7. Y	-	7. L
8. B	-	8. R	-	8. Y	-	8. L
9. B	-	9. R	-	9. Y	-	10. P
10. G	-	10. R	-	10. V	-	11. P
11. G	-	11. R	-	11. Y	-	12. P
14. B	-	12. R	-	12. Y	-	13. P
15. B	-	13. SB	-	13. SB	-	14. P
16. SB	- [With VR30 engine]	14. SB	-	14. SB	-	15. P
16. Y	- [With 2.0L turbo gasoline engine]	15. SB	-	15. SB	-	16. P
17. SB	- [With VR30 engine]	16. L	- [With 2.0L turbo gasoline engine]	16. SB	-	16. R
17. Y	- [With 2.0L turbo gasoline engine]	16. SB	- [With VR30 engine]	17. SB	- [With VR30 engine]	17. P
18. SB	- [With VR30 engine]	17. L	- [With 2.0L turbo gasoline engine]	18. SB	-	17. R
18. Y	- [With 2.0L turbo gasoline engine]	17. SB	- [With VR30 engine]	19. LG	- [With VR30 engine and with ISS]	19. W
19. G	-	18. L	- [With 2.0L turbo gasoline engine]	20. LG	- [Except with VR30 engine and with ISS]	19. R
20. G	-	18. SB	- [With VR30 engine]	21. LG	- [With VR30 engine and with ISS]	20. R
22. LG	- [With VR30 engine]	19. BR	- [With VR30 engine]	22. LG	- [Except with VR30 engine and with ISS]	20. W
22. SB	- [With 2.0L turbo gasoline engine]	19. LG	- [With 2.0L turbo gasoline engine]	23. LG	-	
23. LG	- [With VR30 engine]	20. BR	- [With VR30 engine]	24. LG	-	
23. SB	- [With 2.0L turbo gasoline engine]	20. LG	- [With 2.0L turbo gasoline engine]			
24. LG	- [With VR30 engine]	21. BR	- [With 2.0L turbo gasoline engine]			
24. SB	- [With 2.0L turbo gasoline engine]	21. LG	- [With 2.0L turbo gasoline engine]			
		22. R	- [With VR30 engine and without ISS]			
		22. SB	- [With VR30 engine and with ISS]			
		23. V	- [With 2.0L turbo gasoline engine]			
		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]			

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# CONSULT/GST CHECKING SYSTEM

< BASIC INSPECTION >

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## CONSULT CHECKING SYSTEM (VR ENGINE WITHOUT DIRECT ADAPTIVE STEERING SYSTEM WITH FEB)

Connector No.	M177
Connector Name	JOINT CONNECTOR(MM7)
Connector Type	24342-6G62A



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	-

JRAWC3697GB

# CONSULT/GST CHECKING SYSTEM

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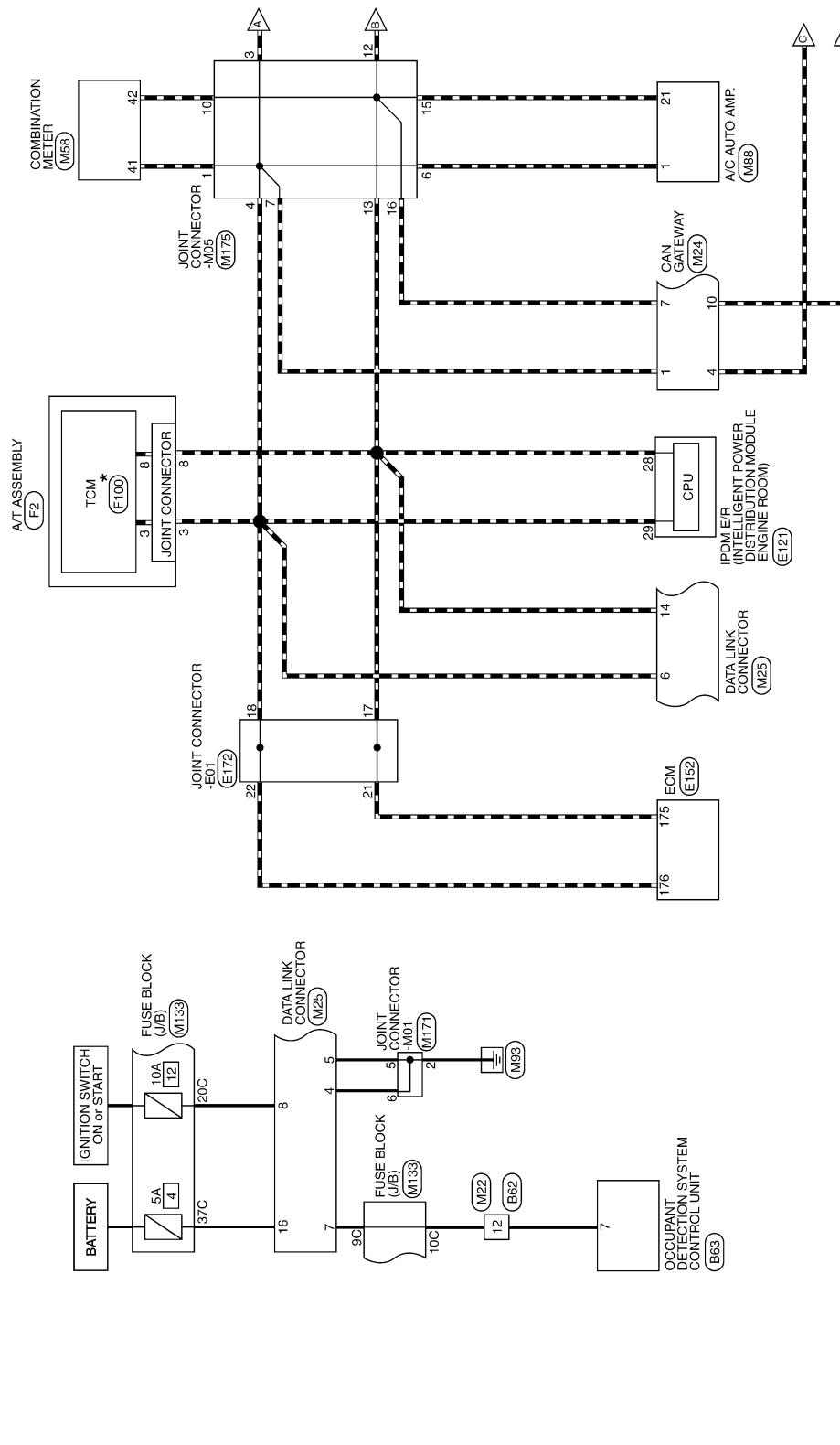
VR ENGINE WITH DIRECT ADAPTIVE STEERING SYSTEM AND FEB

## CONSULT CHECKING SYSTEM (VR ENGINE WITH DIRECT ADAPTIVE STEERING SYSTEM AND FEB)

— : CAN communication line for diagnosis

— : DDI2 communication line

AWD models



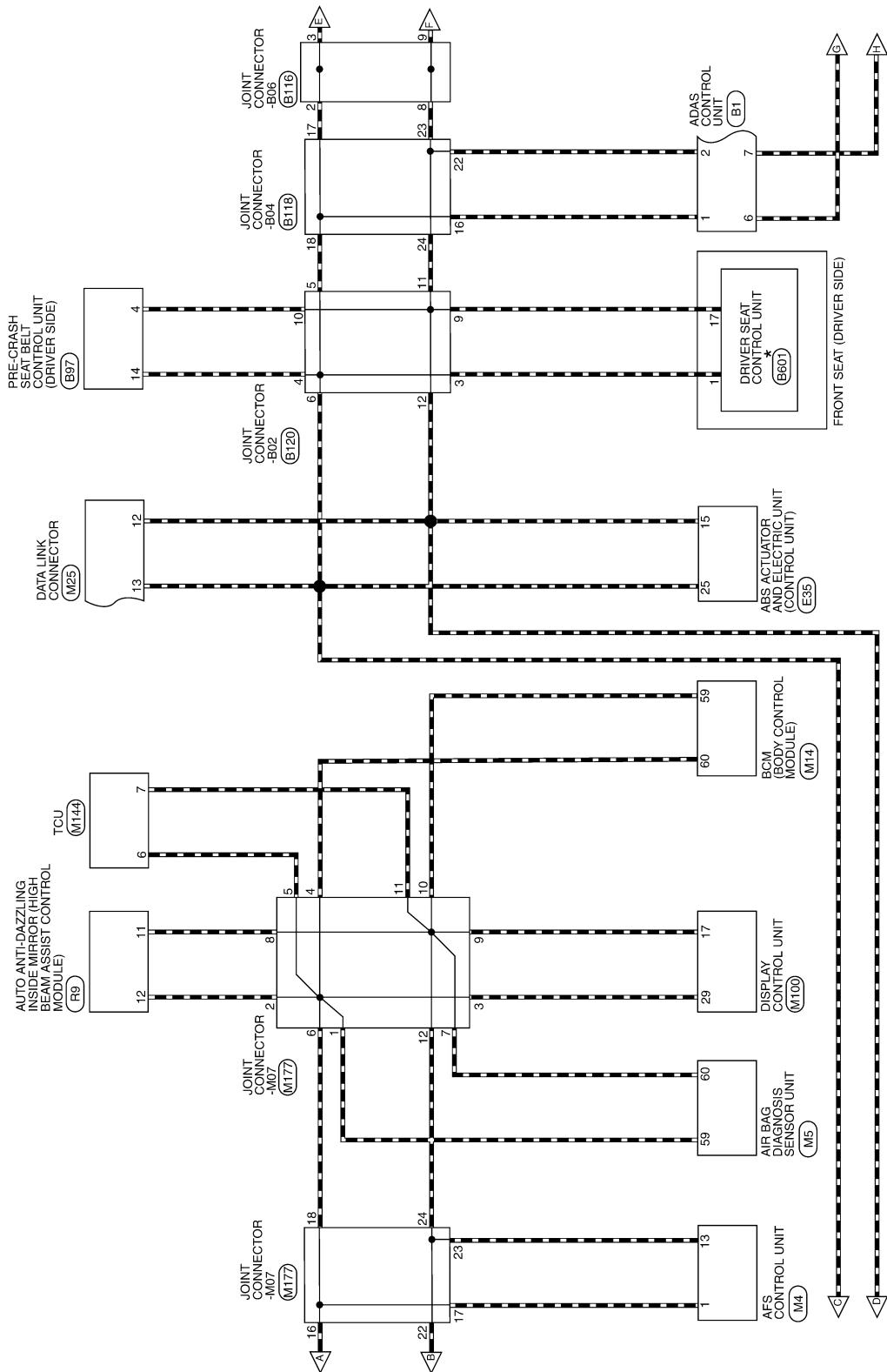
\* : This connector is not shown in "Harness Layout".

2016/02/15

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# CONSULT/GST CHECKING SYSTEM

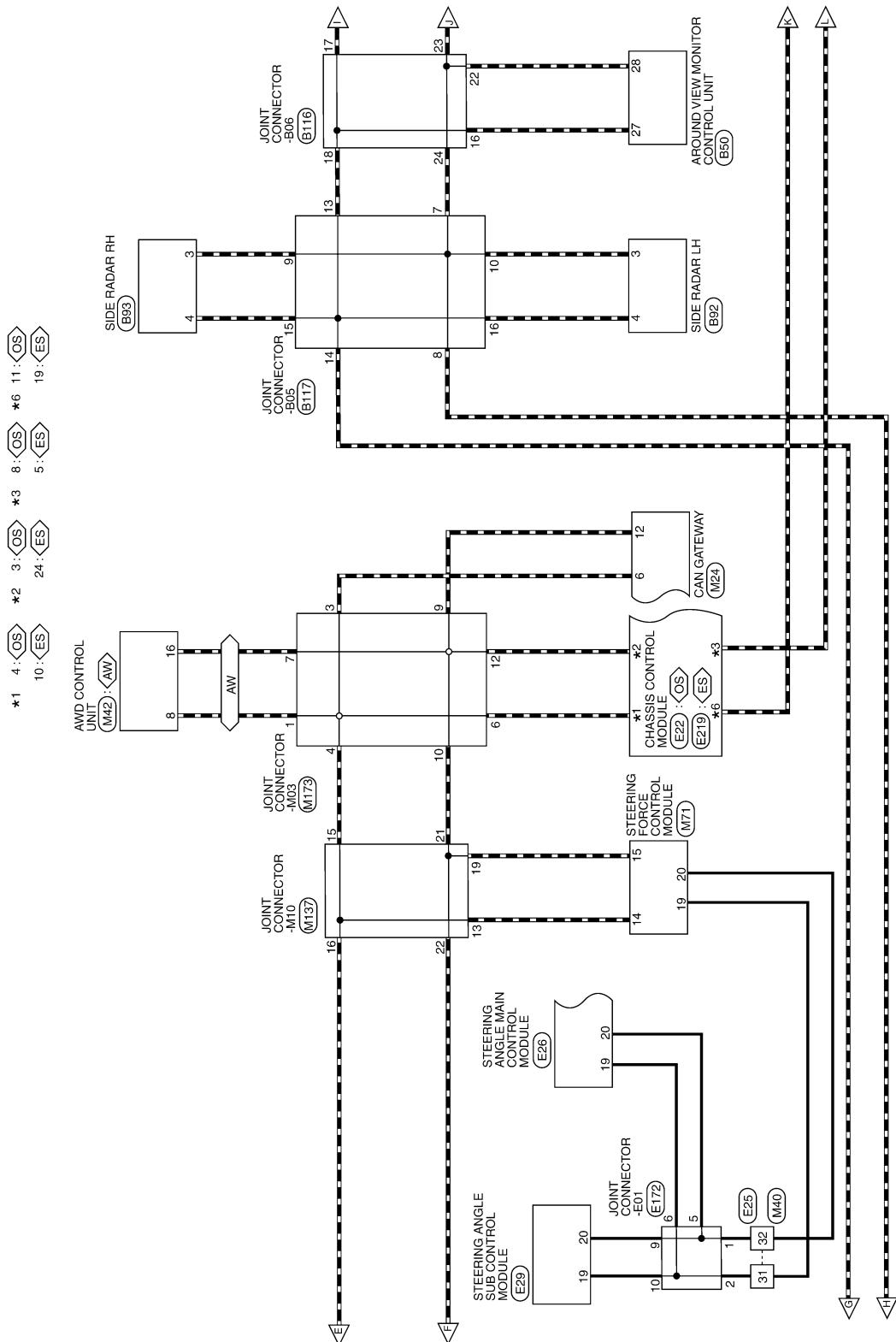
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# CONSULT/GST CHECKING SYSTEM

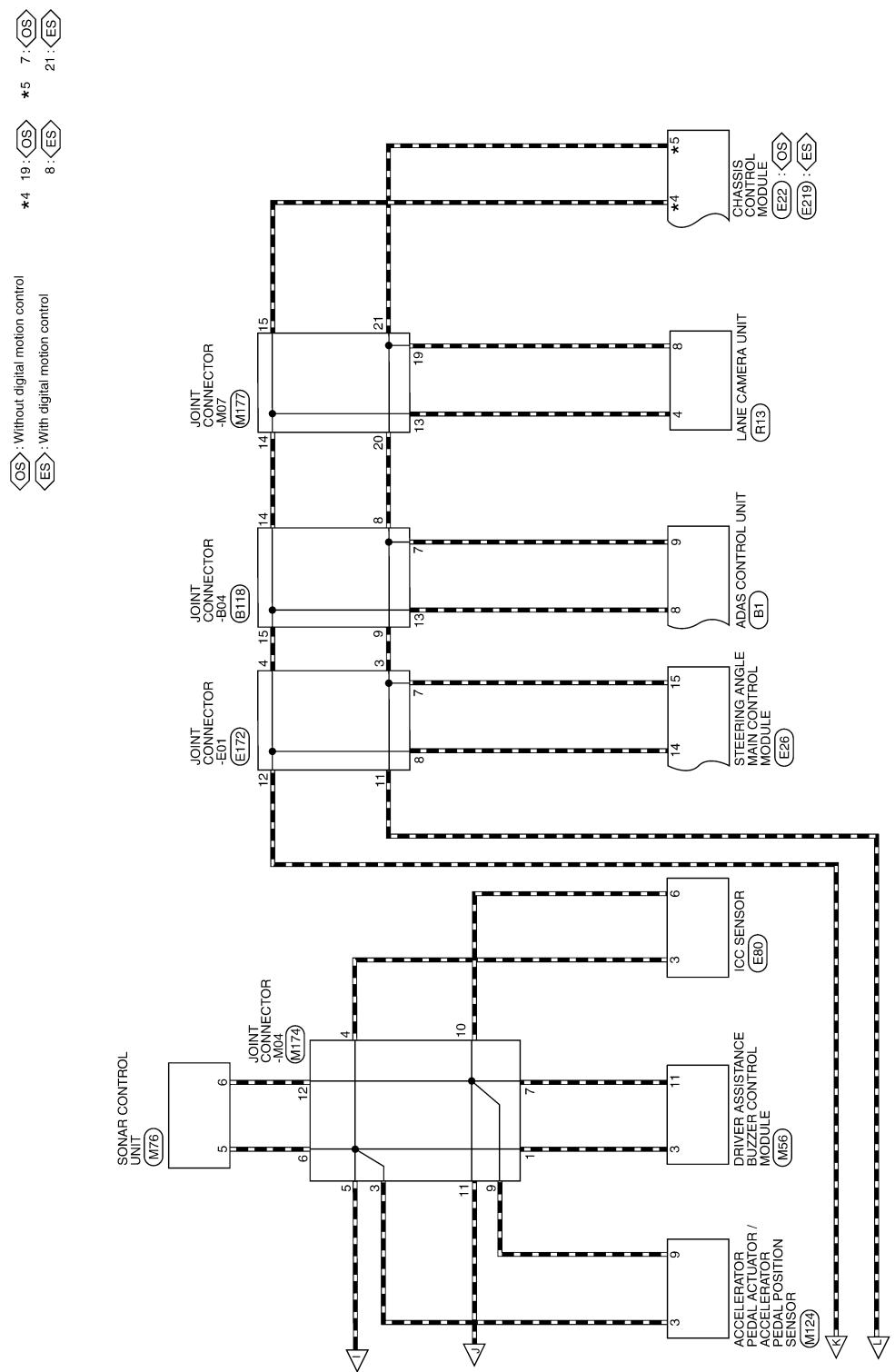
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# CONSULT/GST CHECKING SYSTEM

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# CONSULT/GST CHECKING SYSTEM

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## CONSULT CHECKING SYSTEM (VR ENGINE WITH DIRECT ADAPTIVE STEERING SYSTEM AND FEB)

Connector No.	B1	25	BG	REVERSE SIGNAL	12	Y	-	49	G
Connector Name	ADAS CONTROL UNIT	27	L	CAN-H	13	R	-	50	V
Connector Type	TH24FW-NH	28	P	CAN-L (Without ADAS) For VR30 engine	14	BG	-	51	GR
		28	R	CAN-L (With ADAS)	15	BG	- [With 2.0L turbo gasoline engine]	52	W
		28	Y	CAN-L (Without ADAS) [For 2.0L turbo gasoline engine]	15	GR	- [With VR30 engine]	52	Y
		29	B	CAN GND	16	V	-	53	R
		30	W	REFRACT MOTOR OPERATING SIGNAL (OPEN)	17	P	-	54	GR
		32	G	REFRACT MOTOR OPERATING SIGNAL (CLOSE)	18	L	-	55	L
		19	R	-	19	R	-	56	V
		20	GR	-	20	R	-	57	R
		21	R	-	21	R	-	58	LG
		22	V	-	22	V	-	59	P
		23	W	- [With 2.0L turbo gasoline engine]	24	BG	-	61	L
		24	V	- [With VR30 engine]	24	V	- [With VR30 engine]	62	P
		25	L	- [With 2.0L turbo gasoline engine]	25	SB	- [With VR30 engine]	62	V
		25	BR	- [With VR30 engine]	26	W	- [With VR30 engine]	64	W
		26	L	- [With VR30 engine]	26	W	- [With VR30 engine]	66	LG
		27	Y	- [With 2.0L turbo gasoline engine]	27	R	-	68	L
		28	L	-	29	LG	-	69	P
		29	W	- [With 2.0L turbo gasoline engine]	30	LG	- [With 2.0L turbo gasoline engine]	71	GR
		30	G	- [With VR30 engine]	30	P	- [With VR30 engine]	71	R
		31	BR	- [With VR30 engine]	31	SHIELD	-	72	G
		32	R	-	32	L	-	72	Y
		33	Y	- [With VR30 engine]	33	B	-	73	R
		34	S8	STEERING SW SIGNAL	33	LG	- [With VR30 engine]	73	SHIELD
		35	W	- [With VR30 engine]	34	SHIELD	-	74	MG
		36	W	- [With VR30 engine]	35	LG	- [With VR30 engine]	74	L
		37	Y	- [With 2.0L turbo gasoline engine]	35	W	- [With VR30 engine]	75	GR
		38	G	- [With VR30 engine]	35	W	- [With 2.0L turbo gasoline engine]	75	V
		39	BR	- [With VR30 engine and without BOSE system]	36	R	-	76	GR
		40	R	- [With VR30 engine and without BOSE system]	36	W	-	76	V
		41	W	- [With VR30 engine and with BOSE system]	37	P	- [With 2.0L turbo gasoline engine and without BOSE system]	77	P
		42	Y	- [With 2.0L turbo gasoline engine]	37	R	- [With VR30 engine]	78	L
		43	S8	- [With VR30 engine]	38	W	- [With 2.0L turbo gasoline engine and with BOSE system]	79	R
		44	W	- [With 2.0L turbo gasoline engine]	39	P	- [With VR30 engine and without BOSE system]	80	GR
		45	BR	- [With 2.0L turbo gasoline engine]	39	R	- [With VR30 engine and with BOSE system]	80	W
		46	B	- [With 2.0L turbo gasoline engine as with BOSE system]	39	W	- [With VR30 engine and with BOSE system]	81	B
		47	BR	- [With VR30 engine and with BOSE system]	40	G	-	81	R
		48	W	- [With VR30 engine and with BOSE system]	41	L	-	82	SHIELD
		49	Y	- [With 2.0L turbo gasoline engine and without BOSE system]	42	R	-	83	R
		50	S8	- [With VR30 engine and with BOSE system]	43	SHIELD	-	83	W
		51	BR	- [With 2.0L turbo gasoline engine]	44	P	-	84	BR
		52	W	- [With 2.0L turbo gasoline engine]	45	BR	- [With 2.0L turbo gasoline engine]	84	SHIELD
		53	Y	- [With VR30 engine and without BOSE system]	45	B	- [With VR30 engine]	85	BR
		54	LG	- [With VR30 engine]	46	SHIELD	-	85	G
		55	W	- [With VR30 engine]	47	G	- [With 2.0L turbo gasoline engine]	86	R
		56	BR	-	48	BR	- [With VR30 engine]	86	W

# **CONSULT/GST CHECKING SYSTEM**

## < BASIC INSPECTION >

**CONSULT CHECKING SYSTEM (VR ENGINE WITH DIRECT ADAPTIVE STEERING SYSTEM AND FEB)**



Terminal No.		Signal Name [Specification]	
1	B	RIGHT/LEFT SWITCHING SIGNAL	
2	B	GROUND	
3	P	RS COM1	
4	L	RS COMM+H	
5	GR	IGNITION	
6	SB	BAND SEL/WARNING/GND/INTERVENTION INDICATOR	
Terminal No.		Signal Name [Specification]	
4	R	COMMUNICATION	
5	B	IGN	
7	Y	GND	
		K-INE	

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# CONSULT/GST CHECKING SYSTEM

**< BASIC INSPECTION >**

GI

## CONSULT CHECKING SYSTEM (VR ENGINE WITH DIRECT ADAPTIVE STEERING SYSTEM AND FEB)

Terminal No.			Signal Name [Specification]	
7	Y	-	-	-
8	Y	-	-	[With 2.0L turbo gasoline engine]
9	P	-	-	[With VR30 engine]
9	Y	-	-	[With 2.0L turbo gasoline engine]
10	P	-	-	[With VR30 engine]
10	Y	-	-	[With 2.0L turbo gasoline engine]
11	P	-	-	[With 2.0L turbo gasoline engine]
12	P	-	-	[With 2.0L turbo gasoline engine]
13	L	-	-	[With VR30 engine]
14	L	-	-	[With 2.0L turbo gasoline engine]
15	L	-	-	[With VR30 engine]
16	L	-	-	[With 2.0L turbo gasoline engine]
17	L	-	-	[With VR30 engine]
18	L	-	-	[With VR30 engine]
19	B	-	-	[With 2.0L turbo gasoline engine and without gateway]
20	B	-	-	[With 2.0L turbo gasoline engine and without gateway]
21	SHEILD	-	-	[With VR30 engine]
22	B	-	-	[With 2.0L turbo gasoline engine]
22	SHEILD	-	-	[With VR30 engine]
23	SHEILD	-	-	[With VR30 engine]
24	SHEILD	-	-	[With VR30 engine]
				[Color of wire differs depending on production]

Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	CAN-H
2	R	UART (TX/RX)
3	R	START SW
4	P	PULSE (CLINIC(R))
5	V	PULSE (TELESCOPIC)
6	GY	ADDRESS 2
7	G	IND 2
8	V	SIDE SW (BACKWARD)
9	W	RECLINER SW (BACKWARD)
10	O	TILT SW (DOWNWARD)
11	G	UPTER SW (DOWNWARD)
12	SB	POWER SUPPLY (ENCODER)
13	CAN-L	
14	LG	PULSE (SIDE SENSOR)
15	W	PULSE (LIFTER, FRONT)
16	GY	PULSE (LIFTER, REAR)
17	SB	PULSE (TILT SENSOR)
18	O	ADDRESS 1
19	W	IND 1
20	P	SIDE SW (FORWARD)
21	Y	RECLINER SW (UPWARD)
22	L	TILT SW (UPWARD)
23	Y	SET SW
24	P	
		[Color of wire differs depending on production]



H.S.

CONNECTOR TYPE: 1824EN-NH

CONNECTOR NO.: E522

CONNECTOR NAME: CHASSIS CONTROL MODULE

CONNECTOR TYPE: 1824EN-NH

Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	CAN-L (Without Gateway)
2	R	CAN-H
3	P	DRIVE MODE SELECT SWITCH (UP) (With VR30 engine)
4	L	DRIVE MODE SELECT SWITCH (DOWN) (With VR30 engine)
5	V	SWING MODE SELECT SWITCH (UP) (With VR30 engine)
6	Y	SWING MODE SELECT SWITCH (DOWN) (With VR30 engine)
7	W	CHASSIS COMM-L

Connector No.	Connector Name	Connector Type
B118	JOINT CONNECTOR-B04	24342-4G2A2

Connector No.	Signal Name [Specification]
6	[With VR30 engine]
5	[With VR30 engine]
4	[With VR30 engine]
3	[With VR30 engine]
2	[With VR30 engine]
1	[With VR30 engine]
	[Color of wire differs depending on production]

Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	[With VR30 engine]
1	SHEILD	[With 2.0L turbo gasoline engine]
2	LG	[With 2.0L turbo gasoline engine]
2	SHEILD	[With 2.0L turbo gasoline engine]
3	SHEILD	-
4	LG	[With VR30 engine]
4	SHEILD	[With 2.0L turbo gasoline engine]
5	LG	[With VR30 engine]
5	SHEILD	[With 2.0L turbo gasoline engine]
6	LG	[With VR30 engine]
6	SHEILD	[With 2.0L turbo gasoline engine]
7	R	[Color of wire differs depending on production]

Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	CAN-L (With Gateway)
2	R	CAN-H
3	P	DRIVE MODE SELECT SWITCH (UP) (With VR30 engine)
4	L	DRIVE MODE SELECT SWITCH (DOWN) (With VR30 engine)
5	V	SWING MODE SELECT SWITCH (UP) (With VR30 engine)
6	Y	SWING MODE SELECT SWITCH (DOWN) (With VR30 engine)
7	W	CHASSIS COMM-L

Connector No.	Connector Name	Connector Type
B120	JOINT CONNECTOR-B02	24342-4G2A2

Terminal No.	Color Of Wire	Signal Name [Specification]
6	5	[With VR30 engine]
5	4	[With VR30 engine]
4	3	[With VR30 engine]
3	2	[With VR30 engine]
2	1	[With VR30 engine]
1	LG	[With VR30 engine]
1	SHEILD	[With 2.0L turbo gasoline engine]
2	LG	[With 2.0L turbo gasoline engine]
2	SHEILD	[With 2.0L turbo gasoline engine]
3	LG	[With VR30 engine]
3	SHEILD	[With 2.0L turbo gasoline engine]
4	LG	[With VR30 engine]
4	SHEILD	[With 2.0L turbo gasoline engine]
5	LG	[With VR30 engine]
5	SHEILD	[With 2.0L turbo gasoline engine]
6	LG	[With VR30 engine]
6	SHEILD	[With 2.0L turbo gasoline engine]
7	R	[Color of wire differs depending on production]

# CONSULT/GST CHECKING SYSTEM

**< BASIC INSPECTION >**

## CONSULT CHECKING SYSTEM (VR ENGINE WITH DIRECT ADAPTIVE STEERING SYSTEM AND FEB)

Connector No.	Connector Name	Terminal No.	Color Of Wire	Signal Name [Specification]
8	W	31	W	-[With 2.0L turbo gasoline engine]
10	BG	31	Y	-[With VR30 engine]
10	G	31	G	-[With 2.0L turbo gasoline engine]
11	L	32	G	-[With VR30 engine]
11	L	32	GR	-[With VR30 engine]
12	B	33	L	GROUND [With VR30 engine]
12	B/W	33	Y	GROUND [With 2.0L turbo gasoline engine]
19	BR	34	P	CHASSIS COMM-H [With VR30 engine]
19	L	35	GR	CHASSIS COMM-H [With 2.0L turbo gasoline engine]
23	G	36	R	ESS RELAY [With VR30 engine]
23	R	37	L	-[With 2.0L turbo gasoline engine]
		37	V	-[With VR30 engine]
		38	P	-[With 2.0L turbo gasoline engine and without gateway]
		38	R	-[With 2.0L turbo gasoline engine and with gateway]
		39	BB	-[With VR30 engine]
		39	Y	-[With VR30 engine]
40	S8	78	P	-[With 2.0L turbo gasoline engine and with ADAS]
41	LG	78	V	-[With VR30 engine]
44	Y	79	SB	-[With 2.0L turbo gasoline engine]
45	L	80	G	-[With 2.0L turbo gasoline engine]
45	W	81	R	-[With VR30 engine]
46	B	82	V	-[With VR30 engine]
46	B	83	BR	-[With 2.0L turbo gasoline engine]
47	G	84	R	-[With VR30 engine]
47	G	84	IG	-[With VR30 engine]
48	SHIELD	86	BR	-
49	R	87	G	-
50	BR	89	IG	-[With VR30 engine]
50	GR	90	G	-[With VR30 engine]
51	L	90	GR	-[With VR30 engine]
7	L	91	G	-
8	BG	93	BR	-[With VR30 engine]
8	BR	93	G	-[With 2.0L turbo gasoline engine]
9	B	94	GR	-[With VR30 engine]
9	GR	94	L	-[With 2.0L turbo gasoline engine]
9	LG	95	BR	-[With VR30 engine]
10	BR	95	P	-[With VR30 engine]
11	L	95	R	-[With 2.0L turbo gasoline engine and without gateway]
12	GR	96	W	-[With VR30 engine]
12	P	96	LG	-[With VR30 engine]
13	SHIELD	97	W	-[With 2.0L turbo gasoline engine]
13	W	98	B	-[Color of wire differs depending on production]
14	B	98	B/W	-[With VR30 engine]
15	GR	99	P	-[With 2.0L turbo gasoline engine]
15	SB	100	SHIELD	-
16	BR	100	R	-[With VR30 engine]
16	Y	100	Y	-[With 2.0L turbo gasoline engine]
17	BR	101	BR	-[Color of wire differs depending on production]
17	GR	101	GR	-[Color of wire differs depending on production]
13	W	102	B	-[Color of wire differs depending on production]
14	B	102	BR	-[With 2.0L turbo gasoline engine]
18	G	102	G	-[With 2.0L turbo gasoline engine]
18	P	102	P	-[With VR30 engine]
19	Y	103	L	-

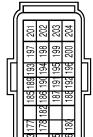
JRAWC3705GB

# **CONSULT/GST CHECKING SYSTEM**

## **< BASIC INSPECTION >**

**CONSULT CHECKING SYSTEM VR ENGINE WITH DIRECT ADAPTIVE STEERING SYSTEM AND FEB**

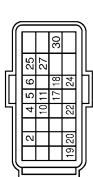
Connector No.	E152
Connector Name	ECM
Connector Type	RH24FB-RZ8-L-RH



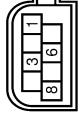
Connector No.	E121
Connector Name	IFPME ER (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH32FW-NH



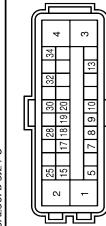
4	Y	MOTOR BATTERY
5	LG	STOP LAMP SW SIGNAL (With ADAS)
5	V	STOP LAMP SW SIGNAL (With ASD)
7	GR	RR LH WHEEL SENSOR SIGNAL
8	G	RH LH WHEEL SENSOR POWER SUPPLY
9	BR	FR RH WHEEL SENSOR SIGNAL
10	GR	FR RH WHEEL SENSOR POWER SUPPLY
13	R	VACUUM SENSOR SIGNAL
15	P	CAN-L (Without gateway)
15	R	CAN-L (With gateway)
17	Y	RR RH WHEEL SENSOR SIGNAL
18	LG	RR RH WHEEL SENSOR POWER SUPPLY (With RR SW engine)
18	V	RR RH WHEEL SENSOR POWER SUPPLY (With RR SW engine)
19	S8	FR LR WHEEL SENSOR SIGNAL
20	BG	FR LH WHEEL SENSOR POWER SUPPLY
25	L	CAN H
26	G	VACUUM SENSOR POWER SUPPLY
30	R	VDC OFF SW SIGNAL
32	SHIELD	VACUUM SENSOR GROUND
34	G	IGN



Terminal No.	Color Of Wire	Signal Name [Specification]
173	SB	FUEL TANK PRESSURE SENSOR
175	P	CAN-L



Connector No.	Terminal	Signal	Description
E80	18	V	8RH WHEEL SENSOR POWER SUPPLY (WITH 8RH engine)
	SB		FR LH WHEEL SENSOR POWER SIGNAL
	20	BG	FL LH WHEEL SENSOR POWER SUPPLY
	25	L	CAN-H
	28	G	VACUUM SENSOR POWER SUPPLY
	30	R	VDC OFF SWI SIGNAL
	32	SHIELD	VACUUM SENSOR GROUND
	34	G	IGN



Connector No.	E35
Connector Name	AIR ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
Connector Type	CA7205B S17A II

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GND
2	B	GND
3	G	VALVE BATTERY (With V630 engine)
3	P	VALVE BATTERY (With 2.0L turbo gasoline engine)

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# **CONSULT/GST CHECKING SYSTEM**

## < BASIC INSPECTION >

**CONSULT CHECKING SYSTEM (VR ENGINE WITH DIRECT ADAPTIVE STEERING SYSTEM AND FEB)**

Connector No.	E172	Connector No.	E219
Connector Name	JOINT CONNECTOR-E01	Connector Name	CHASSIS CONTROL MODULE
Connector Type	5G4281BLR-1	Connector Type	TH128FW



Terminal No.	Color Of Wire	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	-	1	LG	ACTUATOR FELL
2	Y	-	3	BR	ACTUATOR RRH
3	W	-	4	BG	CHASS COMM-L
4	L	-	5	W	CHASS COMM-R
5	GR	-	6	B	GROUNDS
6	Y	-	8	R	CLOUD COMM (GND) (NOT EFFECTIVE ON A PRODUCT)

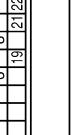


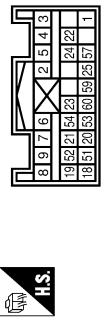
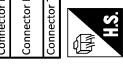
No.	E219	Color Of Wire	Signal Name [Specification]
Name	CHASSIS CONTROL MODULE	LG	ACTUATOR FEL H
Type	TH281W	BR	ACTUATOR FRFH
		BG	IGN
		W	CHASSIS COMM-L
		B	GROUND
		BB	CHASSIS COMM-H (new effective on model year)



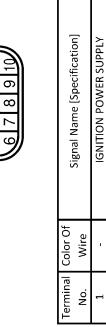
Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	CAN-HIGH SIGNAL
6	BR	HEIGHT SENSOR SIGNAL

 H.S.





Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	IGN
2	B	GND
3	V/R	DR1 (+)
4	v/a	DR1 (-)



Terminal No.	Color Of Wire	Signal Name [Specification]
1	-	IGNITION POWER SUPPLY
2	-	BATTERY POWER SUPPLY / MEMORY BACK-UP[JP]
3	-	CAN-H
4	-	K-LINE
5	-	GROUND
6	-	IGNITION POWER SUPPLY
7	-	BACKUP LAMP RELAY
8	-	CAN-L

# **CONSULT/GST CHECKING SYSTEM**

## **< BASIC INSPECTION >**

(CONSULT CHECKING SYSTEM VR ENGINE WITH DIRECT ADAPTIVE STEERING SYSTEM AND FEB)

H.S. (High Speed) Connector Pinout Diagram						

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# CONSULT/GST CHECKING SYSTEM

**< BASIC INSPECTION >**

## CONSULT CHECKING SYSTEM (VR ENGINE WITH DIRECT ADAPTIVE STEERING SYSTEM AND FEB)

Connector No.	N25	11	W	- [With VR30 engine]	- [With VR30 engine]
Connector Name	DATA UNIT CONNECTOR	11	Y	- [With 2.0L turbo gasoline engine]	- [With 2.0L turbo gasoline engine]
Connector Type	BD16FW	12	B	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]
Terminal Color Of Wire No.	SHIELD	12	BR	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]
Signal Name [Specification]		13	GR	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]
Terminal Color Of Wire No.		13	SHIELD	- [With VR30 engine]	-
Signal Name [Specification]		14	B	- [With 2.0L turbo gasoline engine]	-
Terminal Color Of Wire No.		15	BG	- [With VR30 engine]	-
Signal Name [Specification]		15	SB	- [With VR30 engine]	-
Terminal Color Of Wire No.		16	SB	- [With VR30 engine]	-
Signal Name [Specification]		16	R	- [With VR30 engine]	-
Terminal Color Of Wire No.		16	BR	- [With 2.0L turbo gasoline engine]	[Color of wire differs depending on production]
Signal Name [Specification]		17	LG	-	[Color of wire differs depending on production]
Terminal Color Of Wire No.		18	B	- [With VR30 engine]	-
Signal Name [Specification]		18	W/B	- [With VR30 engine]	-
Terminal Color Of Wire No.		19	Y	-	-
Signal Name [Specification]		21	W	-	-
Terminal Color Of Wire No.		32	G	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]
Signal Name [Specification]		32	V	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]
Terminal Color Of Wire No.		33	L	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]
Signal Name [Specification]		33	Y	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]
Terminal Color Of Wire No.		34	P	-	-
Signal Name [Specification]		35	BG	-	-
Terminal Color Of Wire No.		36	B	- [With VR30 engine]	- [With VR30 engine]
Signal Name [Specification]		37	B	- [With 2.0L turbo gasoline engine]	- [With 2.0L turbo gasoline engine]
Terminal Color Of Wire No.		37	L	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]
Signal Name [Specification]		38	L	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]
Terminal Color Of Wire No.		38	P	- [Non 2.0L turbo gasoline engine and without gateway]	- [With 2.0L turbo gasoline engine and with gateway]
Signal Name [Specification]		38	R	- [Non 2.0L turbo gasoline engine and with gateway]	- [With 2.0L turbo gasoline engine and with gateway]
Terminal Color Of Wire No.		39	R	- [With 2.0L turbo gasoline engine]	-
Signal Name [Specification]		39	Y	- [With VR30 engine]	-
Terminal Color Of Wire No.		40	GR	-	- [With 2.0L turbo gasoline engine]
Signal Name [Specification]		TH80M/NW/C516-TM4	41	L	-
Connector Name	CAN GATEWAY		44	BR	-
Connector Type	TH12FW-NH		45	L	- [With 2.0L turbo gasoline engine]
Terminal Color Of Wire No.			45	W	- [With VR30 engine]
Signal Name [Specification]			46	G	- [With VR30 engine]
Terminal Color Of Wire No.			46	Y	- [With 2.0L turbo gasoline engine]
Signal Name [Specification]			47	BR	- [With VR30 engine]
Terminal Color Of Wire No.			47	R	- [With VR30 engine]
Signal Name [Specification]			48	SHIELD	-
Terminal Color Of Wire No.			49	B	- [With VR30 engine]
Signal Name [Specification]			49	G	- [With 2.0L turbo gasoline engine]
Terminal Color Of Wire No.			50	B	- [With 2.0L turbo gasoline engine]
Signal Name [Specification]			50	BR	- [With VR30 engine]
Terminal Color Of Wire No.			51	L	-
Signal Name [Specification]			52	W	-
Terminal Color Of Wire No.			53	G	- [With VR30 engine]
Signal Name [Specification]			54	SB	- [With 2.0L turbo gasoline engine]
Terminal Color Of Wire No.			54	Y	- [With VR30 engine]
Signal Name [Specification]			55	B	- [With 2.0L turbo gasoline engine]
Terminal Color Of Wire No.			55	W	- [With 2.0L turbo gasoline engine]

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# CONSULT/GST CHECKING SYSTEM

< BASIC INSPECTION >

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## CONSULT CHECKING SYSTEM (VR ENGINE WITH DIRECT ADAPTIVE STEERING SYSTEM AND FEB)

Connector No.	Connector No.	Connector Name	Connector Type	Terminal Color Of Wire	Signal Name [Specification]	Terminal Color Of Wire	Signal Name [Specification]			
95 R 96 W 97 LG 98 Y 99 BR 99 LG 100 SHEILD	M56 - (With 2.0L turbo gasoline engine and with Gateway) - - - [With VR3D engine] - [With 2.0L turbo gasoline engine] -	DRIVER ASSISTANCE BUZZER CONTROL MODULE STEERING FORCE CONTROL MODULE TH124FW-NH TH124FW-NH	M71 STEERING FORCE CONTROL MODULE RH24FB-RZ2-L-RH TH124FW-NH	2 Y 4 W 5 G 6 L 10 B 11 R 14 L 15 P 17 V 18 GND 19 GND 20 GND 21 GND 22 GND 23 GND 24 GND 25 GND 26 GND 27 GND 28 GND 29 GND 30 GND 31 GND 32 GND	STEERING FORCE MOTOR RESOLVER SIGNAL (S1-S3) STEERING FORCE MOTOR RESOLVER SIGNAL (S4-S6) STEERING FORCE MOTOR RESOLVER SIGNAL (S7-S9) STEERING FORCE MOTOR RESOLVER SIGNAL (S10-S12) STEERING FORCE MOTOR RESOLVER SIGNAL (R1-R2) CAN-L (Without Gateway) CAN-L (Without Gateway) CAN COMMUNICATION-H CAN COMMUNICATION-L (Without Gateway) BACK UP SIGNAL (FROM STEERING ANGLE MANUFACTURER MODULE) BACK UP SIGNAL (FROM STEERING ANGLE MANUFACTURER MODULE) FLUID TEMP (+) IGN CAN-H AVD SOL BAT GND FLUID TEMP (-) BATT POWER SUPPLY CAN-H (Without Gateway) CAN-L (Without Gateway)	1 SB 2 CG 3 W 4 GR 5 L 6 R 7 G 8 V 9 GND 10 BR 11 Y 12 R 13 W 14 B 15 B 16 GR 17 V 18 Y 19 W 20 V 21 BR 22 W	CENTER SENSOR SIGNAL FRONT RH CENTER SENSOR SIGNAL FRONT LH CORNER SENSOR SIGNAL FRONT LH CORNER SENSOR SIGNAL FRONT RH CAN-H CAN-L (Without Gateway) CENTER SENSOR SIGNAL REAR RH CENTER SENSOR SIGNAL REAR LH IGN (For VR3D engine) IGN (For 2.0L turbo gasoline engine) FRONT SENSOR GND REAR SENSOR GND FRONT BUTTER DRIVE SIGNAL BUZZER POWER SUPPLY CENTER SENSOR SIGNAL REAR LH CORNER SENSOR SIGNAL REAR LH	1 M76 - SONAR CONTROL UNIT - T124FW-NH		
Connector No.	Connector No.	Connector Name	Connector Type	Terminal Color Of Wire	Signal Name [Specification]	Terminal Color Of Wire	Signal Name [Specification]			
M42	TH16FW-NH	AWD CONTROL UNIT	TH16FW-NH	1 G 3 L 5 B 8 R 11 Y 13 B 16 G	IGNITION ITS COMM-H GROUND WARNING BUZZER SIGNAL ITS COMM-L GROUND WARNING BUZZER SIGNAL GROUND	15 R 17 V 18 Y 19 W 20 V 22 BR 23 BR 24 R 25 W 26 W 27 W/B 28 R	CAN COMMUNICATION-L (With Gateway) BACK UP SIGNAL (FROM STEERING ANGLE MANUFACTURER MODULE) FLUID TEMP COMMUNICATION-H FLUID TEMP COMMUNICATION-L BACK UP SIGNAL (FROM STEERING ANGLE MANUFACTURER MODULE) CAN WAKE UP IGNITION POWER SUPPLY STEERING CLUTCH + STEERING CLUTCH - STEERING ANGLE (TO STEERING ANGLE MANUFACTURER MODULE) STEERING ANGLE (TO STEERING ANGLE MANUFACTURER MODULE) STEERING ANGLE (TO STEERING ANGLE MANUFACTURER MODULE)	10 BG 12 R 13 W 14 B 15 B 16 GR 17 V 18 Y 19 P 21 BR 22 W	CAN COMMUNICATION-L (With Gateway) IGN (For VR3D engine) FRONT SENSOR GND REAR SENSOR GND FRONT BUTTER DRIVE SIGNAL BUZZER POWER SUPPLY CENTER SENSOR SIGNAL REAR LH CORNER SENSOR SIGNAL REAR LH	1 M88 - A/C AUTO AMP. - T140FW-NH
Connector No.	Connector No.	Connector Name	Connector Type	Terminal Color Of Wire	Signal Name [Specification]	Terminal Color Of Wire	Signal Name [Specification]			
M58	TH124FW-NH	COMBINATION METER	TH124FW-NH	1 L 2 Y 3 W/R 7 G 8 L 9 RG 10 B 11 B 13 LG 15 W 16 P	AVD SOL (+) AVD SOL (-) FLUID TEMP (+) IGN CAN-H AVD SOL BAT GND FLUID TEMP (-) BATT POWER SUPPLY CAN-H (Without Gateway)	41 L 42 P 43 B 44 Y 45 W 46 RG 47 GB 48 GB 49 GB 51 GB 52 GB	142 43 44 45 46 47 48 51 52	1 2 3 2 3 23 2 27 28 2 29 1 3 1 7 9 2 27 28 2 29 1 3 1 7 9 2 27 28 2 29	1 2 3 2 3 23 2 27 28 2 29 1 3 1 7 9 2 27 28 2 29	1 M88 - A/C AUTO AMP. - T140FW-NH

JRAWC3710GB

# CONSULT/GST CHECKING SYSTEM

**< BASIC INSPECTION >**

**CONSULT CHECKING SYSTEM (VR ENGINE WITH DIRECT ADAPTIVE STEERING SYSTEM AND FEB)**

Terminal Color Of No.		Signal Name [Specification]		VEHICLE SPEED SIGNAL (8-PULSE)				14C Y			
1 L		CAN-H		ACC [Except for VR30 engine and with SS]		15C R		-			
2 B		GROUND		ACC [For VR30 engine and with SS]		16C R		-			
3 W		BATTERY POWER SUPPLY		BAT		17C L		-			
7 G		AMBIENT SENSOR SIGNAL		-		18C P		[Without DRCO] - [With DRCO]			
9 R		SUNLOAD SENSOR SIGNAL		-		19C B		-			
13 V		ACC POWER SUPPLY (With 2.0L turbo gasoline engine)		ACC POWER SUPPLY (With VR30 engine)		1C R		-			
15 P		LINE SIGNAL		-		20C W		-			
17 R		DOOR MOTOR POWER SUPPLY		-		21C L		-			
18 P		BLOWER MOTOR CONTROL SIGNAL		-		23C L		-			
20 L		HEATED STEERING WHEEL RELAY CONTROL SIGNAL		CAN-L		25C LG		-			
21 P		ACCCELERATOR PEDAL ACTUATOR/ACCELERATOR POSITION SENSORS		-		26C SB		-			
22 B		GROUND		-		27C P		-			
23 R		IGNITION POWER SUPPLY (VR30 engine and with SS)		-		28C W		-			
23 W		IGNITION POWER SUPPLY (VR30 engine and with SS)		-		29C W		-			
26 B		SENSOR GROUND		-		30C R		-			
27 LG		IN-VEHICLE SENSOR SIGNAL		-		31C W		-			
28 BR		INTAKE SENSOR SIGNAL		-		32C R		-			
30 BG		EXHAUST GAS/OUTSIDE OZONE DETECTING SENSOR SIGNAL		-		33C B		[With VR30 engine] - [With 2.0L turbo gasoline engine]			
37 B		GROUND		-		34C W/b		-			
38 BG		IGNITER (ON/OFF) CONTROL SIGNAL		3 L		33C R		- [With 2.0L turbo gasoline engine]			
40 BG		ECV CONTROL SIGNAL		4 W		34C W/b		-			
26		IN-VEHICLE SENSOR SIGNAL		5 G		35C SB		-			
27		BR		6 Y		36C R		-			
28		BR		7 B		37C W		-			
30		BG		8 Y		38C SB		-			
38		BG		9 Y		39C V		-			
40		BG		10 L		30C P		-			
26		DISPLAY CONTROL UNIT		11 R		40C G		-			
27		BR		12 BR		40C P		-			
28		BR		26 27 28 29 30 31 32 33 34		5C P		-			
29		BR		26 27 28 29 30 31 32 33 34		6C G		-			
30		R		26 27 28 29 30 31 32 33 34		7C G		-			
30		W		26 27 28 29 30 31 32 33 34		8C G		-			
30		V		26 27 28 29 30 31 32 33 34		9C V		-			

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# CONSULT/GST CHECKING SYSTEM

**< BASIC INSPECTION >**

**CONSULT CHECKING SYSTEM (VR ENGINE WITH DIRECT ADAPTIVE STEERING SYSTEM AND FEB)**

Terminal No.	Wire Color	Signal Name [Specification]	Terminal No.	Wire Color	Signal Name [Specification]
1	Y	DATA	14	G	-
2	SB	ACC [For 2.0L turbo gasoline engine]	15	B	-
3	V	ACC [For VR30 engine]	16	SB	[With VR30 engine]
5	SB	ACC/OUTPUT	16	Y	[With 2.0L turbo gasoline engine]
6	BR	SOS SWITCHED SIGNAL	17	Y	[With VR30 engine]
7	P	CAN-H	18	SB	[With 2.0L turbo gasoline engine]
10	R	IGN [For VR30 engine]	19	G	[With 2.0L turbo gasoline engine]
10	W	IGN [For 2.0L turbo gasoline engine]	20	G	-
11	SHIELD	MICROPHONE SIGNAL GND	22	LG	[With VR30 engine]
12	R	MICROPHONE OUTPUT SIGNAL	22	SB	[With 2.0L turbo gasoline engine]
16	SHIELD	SHIELD	23	LG	[With VR30 engine]
17	G	MICROPHONE SIGNAL	23	SB	[With 2.0L turbo gasoline engine]
18	L	MICROPHONE VCC	24	LG	[With VR30 engine]
26	SB	-	24	LG	[With VR30 engine and without ISS]
27	LG	AV COMM [H]	24	SB	-
28	B	GROUND	24	V	[With VR30 engine and with ISS]
30	SHIELD	SHIELD	31	B	SOUND SIGNAL (+)
32	W	SOUND SIGNAL (-)	37	G	SOS CALL SWITCH SIGNAL

Connector No.	Connector Name	Joint Connector-M03	Connector Type	24342_4GADA
M171	JOINT CONNECTOR-M01		Connector No.	M174
			Connector Name	JOINT CONNECTOR-M04
			Connector Type	24342_4GADA

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

Terminal No.	Color Of Wire	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-	1	L	-
2	L	-	2	L	-
3	L	-	3	L	-
4	L	-	4	L	-
5	L	-	5	L	-
6	L	-	6	L	-
7	R	-	7	Y	-
8	R	-	8	Y	-
9	R	-	9	Y	-
10	R	-	10	Y	-
11	R	-	11	Y	-
12	R	-	12	Y	-
13	SB	-	13	SB	-
14	SB	-	14	SB	-
15	SB	-	15	SB	-
16	L	[With 2.0L turbo gasoline engine]	16	L	[With VR30 engine]
16	SB	-	16	SB	-
17	R	[With VR30 engine and with ISS]	17	R	[With 2.0L turbo gasoline engine]
19	W	-	19	W	-
20	R	-	20	R	-
20	W	-	20	W	-

JRAWC3712GB

# CONSULT/GST CHECKING SYSTEM

**< BASIC INSPECTION >**

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## CONSULT CHECKING SYSTEM (VR ENGINE WITH DIRECT ADAPTIVE STEERING SYSTEM AND FEB)

Connector No.	M177	Connector No.	R9
Connector Name	JOINT CONNECTOR(MM7)	Connector Name	AUTO ANTI-DAZZLING INSIDE MIRROR
Connector Type	24342-5G62A	Connector Type	TH37FW/NH-B



Terminal No.	Color Of Wire	Signal Name [Specification]	Signal Name [Specification]
1	L	-	GROUND
2	L	-	BG AUTO ANTI-DAZZLING OUTSIDE MIRROR CONTROL SIGNAL
3	L	-	6 BG IGNITION POWER SUPPLY
4	L	-	9 BR AUTO ANTI-DAZZLING OUTSIDE MIRROR GROUND
5	L	-	10 BG SATELLITE NAVIGATION SYSTEM (Color of wire differs, depending on production)
6	L	-	10 P SATELLITE NAVIGATION SYSTEM (Color of wire differs, depending on production)
7	P	-	11 GR CAN-H
8	P	-	12 BR CAN-H
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	-	

Connector No.	R13
Connector Name	LANE CAMERA UNIT
Connector Type	TH37FW/NH



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

JRAWC3713GB

# **CONSULT/GST CHECKING SYSTEM**

## < BASIC INSPECTION >

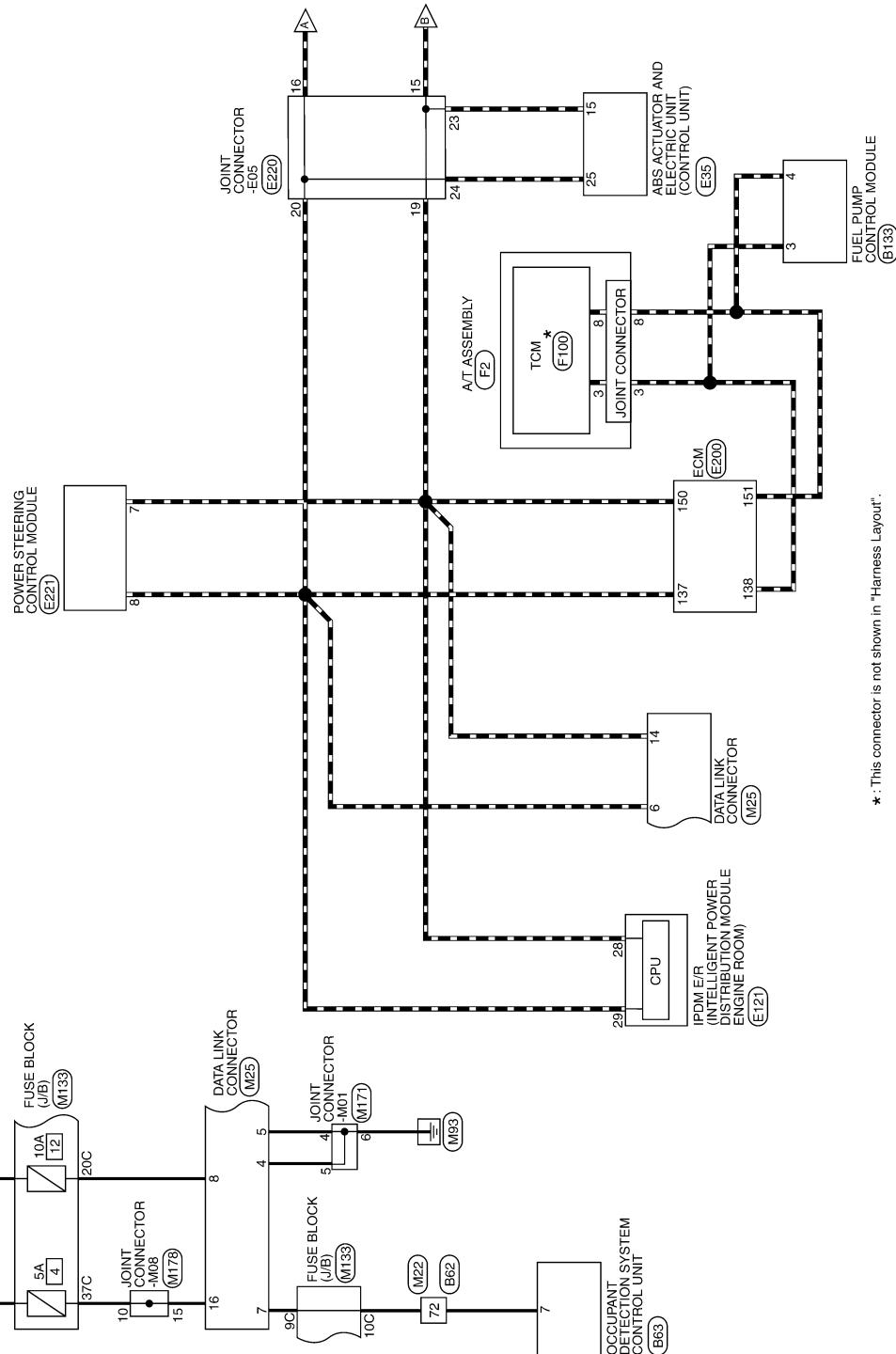
**2.0L TURBO GASOLINE ENGINE WITHOUT AUTOMATIC DRIVE POSITIONER**

GI

CONSULT CHECKING SYSTEM (2.0L TURBO GASOLINE ENGINE WITHOUT AUTOMATIC DRIVE POSITIONER)

- CAN communication line for diagnosis
- DDI 2 communication line

AW : AWD models



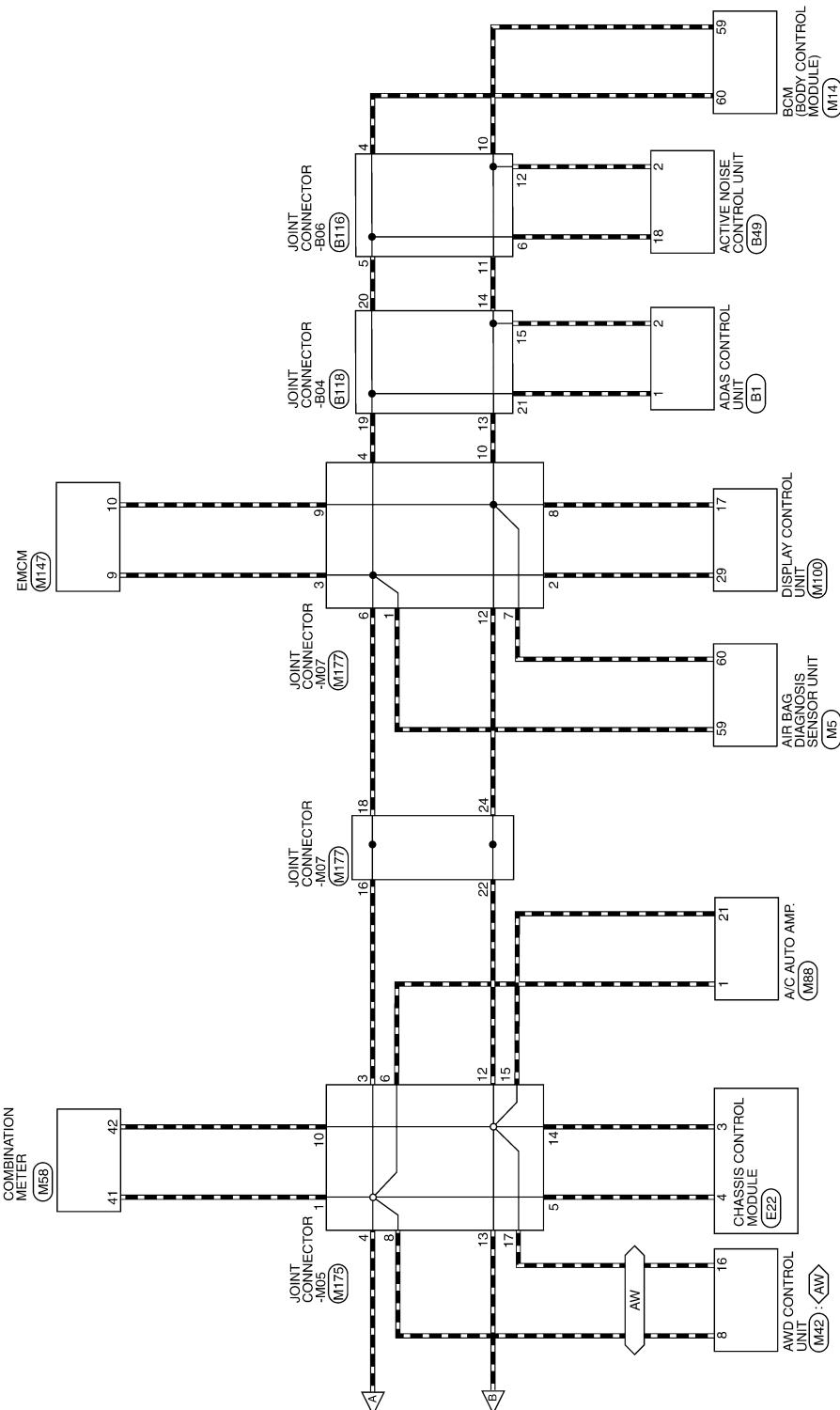
\* : This connector is not shown in "Harness Layout".

2016/02/15

JRAWC3714GB

# CONSULT/GST CHECKING SYSTEM

< BASIC INSPECTION >



JRAWC3715GB

# CONSULT/GST CHECKING SYSTEM

**< BASIC INSPECTION >**

GI

## CONSULT CHECKING SYSTEM (2.0L TURBO GASOLINE ENGINE WITHOUT AUTOMATIC DRIVE POSITIONER)

Connector No.	B1	Wire	Signal Name [Specification]	Color Of Wire	Terminal No.	Signal Name [Specification]	Color Of Wire	Terminal No.	Signal Name [Specification]	Color Of Wire
Connector Name	AUDAS CONTROL UNIT	R	SOUND SIGNAL FRONT LH (+)	Y	12	GND	-	7	[With 2.0L turbo gasoline engine and without BOSE system]	-
Connector Type	TH24EW-NH	R	SOUND SIGNAL FRONT RH (+)	Y	13	GND	-	8	- [With VR30 engine and with BOSE system]	-
		LG	SOUND SIGNAL REAR LH (+)	Y	14	GND	-	8	- [With 2.0L turbo gasoline engine]	-
		B	SOUND SIGNAL REAR RH (+)	Y	15	GND	-	8	- [With VR30 engine and without BOSE system]	-
		V	ACC	Y	16	GND	-	9	- [With 2.0L turbo gasoline engine]	-
		L	CAN-H	Y	17	GND	-	9	- [With VR30 engine]	-
		P	ENGINE SPEED SIGNAL	Y	18	GND	-	10	- [With VR30 engine]	-
		IGN	IGN	Y	19	GND	-	11	GR	-
		W	IGN	Y	20	GND	-	12	Y	-
		B	GND	Y	23	GND	-	13	R	-
		GNDA	FRONT MICROPHONE SIGNAL (-)	Y	24	R	-	13	R	-
		GNDB	REAR MICROPHONE SIGNAL (-)	Y	25	W	-	14	BG	-
		GNCL	SOUND SIGNAL FRONT LH (-)	Y	28	L	-	15	BG	- [With 2.0L turbo gasoline engine]
		GNCR	SOUND SIGNAL FRONT RH (-)	Y	29	L	-	15	GR	- [With VR30 engine]
		GNHL	SOUND SIGNAL REAR LH (-)	Y	30	P	-	16	V	- [With VR30 engine]
		GNHR	SOUND SIGNAL REAR RH (-)	Y	31	W	-	17	P	-
		BAT	BAT	Y	32	Y	-	18	L	-
		R	GROUND	Y	5	R	-	19	R	-
		B	GROUND	Y	6	L	-	20	GR	-
		L	ITS COMM-L	Y	7	Y	-	21	R	-
		L	CHASSIS COMM-H	Y	8	Y	-	22	V	-
		R	CHASSIS COMM-L	Y	9	R	-	23	W	-
		G	IGNITION [Except with VR30 engine and without SS]	Y	12	G	-	24	BG	- [With 2.0L turbo gasoline engine]
		GR	IGNITION [VR30 engine and without SS]	Y	12	GR	-	24	V	- [With VR30 engine]
		V	Brake Hold RLY DRIVE SIGNAL	Y	17	V	-	25	L	- [With 2.0L turbo gasoline engine]
		Y	STEERING SW SIGNAL GROUND	Y	23	Y	-	25	SB	- [With VR30 engine]
		S8	STEERING SW SIGNAL	Y	24	S8	-	26	G	- [With VR30 engine]
					27	R	-	26	W	- [With 2.0L turbo gasoline engine]
					27	R	-	27	R	-
					29	R	-	27	R	-
					29	LG	-	29	LG	- [With 2.0L turbo gasoline engine]
					30	LG	-	30	LG	- [With 2.0L turbo gasoline engine]
					30	P	-	30	P	- [With VR30 engine]
					31	SHIELD	-	31	SHIELD	- [With VR30 engine]
					32	R	-	32	R	- [With 2.0L turbo gasoline engine]
					33	B	-	33	B	- [With VR30 engine]
					33	LG	-	33	LG	- [With 2.0L turbo gasoline engine]
					34	SHIELD	-	34	SHIELD	- [With VR30 engine]
					35	LG	-	35	LG	- [With 2.0L turbo gasoline engine]
					35	W	-	35	W	- [With VR30 engine]
					36	R	-	36	R	- [With VR30 engine]
					36	W	-	36	W	- [With 2.0L turbo gasoline engine]
					37	P	-	37	P	- [With 2.0L turbo gasoline engine and without BOSE system]
					37	R	-	37	R	- [With VR30 engine]
					37	W	-	37	W	- [With 2.0L turbo gasoline engine and with BOSE system]
					38	W	-	38	W	- [With 2.0L turbo gasoline engine and with BOSE system]
					39	P	-	39	P	- [With VR30 engine and without BOSE system]
					39	R	-	39	R	- [With 2.0L turbo gasoline engine]
					39	W	-	39	W	- [With 2.0L turbo gasoline engine and with BOSE system]
					40	R	-	40	R	- [With VR30 engine and without BOSE system]
					41	L	-	41	L	- [With VR30 engine and with BOSE system]

JRAWC3716GB



# CONSULT/GST CHECKING SYSTEM

**< BASIC INSPECTION >**

GI

## CONSULT CHECKING SYSTEM (2.0L TURBO GASOLINE ENGINE WITHOUT AUTOMATIC DRIVE POSITIONER)

CONSULT CHECKING SYSTEM (2.0L TURBO GASOLINE ENGINE WITHOUT AUTOMATIC DRIVE POSITIONER)		
Terminal No.	Wire Color Of	Signal Name [Specification]
17	Y	RR RH WHEEL SENSOR SIGNAL
18	LG	RR RH WHEEL SENSOR POWER SUPPLY (With 2.0L turbo gasoline engine)
3	P	CAN-L (Without Gateway)
3	R	CAN-L (With Gateway)
4	L	CAN-H
5	V	DRIVE MODE SELECT SW/C1 (Up) (With VR30 engine)
5	Y	DRIVE MODE SELECT SW/C1 (Down) (With 2.0L turbo gasoline engine)
6	G	DRIVE MODE SELECT SW/DOWN (With VR30 engine)
6	Y	DRIVE MODE SELECT SW/DOWN (With 2.0L turbo gasoline engine)
7	W	CHASSIS COMM-L
8	W	CHASSIS COMM-W
10	BG	IGN (With 2.0L turbo gasoline engine)
10	G	IGN (With VR30 engine)
11	L	GROUND (With VR30 engine)
12	B	GROUND (With 2.0L turbo gasoline engine)
12	BW	GROUND (With 2.0L turbo gasoline engine)
13	BR	CHASSIS COMM-H (With VR30 engine)
19	L	CHASSIS COMM-H (With 2.0L turbo gasoline engine)
23	G	ESS RELAY (With VR30 engine)
23	R	ESS RELAY (With 2.0L turbo gasoline engine)

CONSULT CHECKING SYSTEM (2.0L TURBO GASOLINE ENGINE)		
Terminal No.	Wire Color Of	Signal Name [Specification]
17	Y	RR RH WHEEL SENSOR SIGNAL
18	V	RR RH WHEEL SENSOR POWER SUPPLY (With 2.0L turbo gasoline engine)
19	SB	FR LH WHEEL SENSOR SIGNAL (With VR30 engine)
20	BS	FR LH WHEEL SENSOR POWER SUPPLY
25	L	CAN-H
28	G	VACUUM SENSOR POWER SUPPLY
30	R	VE OFF SW SIGNAL
32	SHE	VACUUM SENSOR GROUND
34	G	IGN

CONSULT CHECKING SYSTEM (2.0L TURBO GASOLINE ENGINE)		
Terminal No.	Color Of Wire	Signal Name [Specification]
97	LG	FR LH WHEEL SENSOR SIGNAL
98	B	FR LH WHEEL SENSOR POWER SUPPLY (MAIN)
99	G	ECM GROUND
100	B	POWER SUPPLY (MAIN)
101	G	ECM GROUND
102	B	COOLING FAN CONTROL SIGNAL (PWM)
103	V	COOLING FAN CONTROL SIGNAL (PWM)
104	Y	SENSOR POWER SUPPLY
105	R	SENSOR POWER SUPPLY
106	W	SENSOR GROUND
109	P	ENGINE SPEED SIGNAL
111	G	POWER SUPPLY
116	LG	STARTER RELAY-L
119	BR	SENSOR GROUND
120	BG	SENSOR GROUND
123	BR	MAIN RELAY CONTROL SIGNAL
127	V	FUEL PUMP ON SIGNAL
132	G	ACCELERATOR PEDAL POSITION SENSOR 1
137	L	CAN-H
138	L	DRIVETRAIN CAN-H
142	GR	BACK-UP LAMP SWITCH
143	LG	REFRIGERANT PRESSURE SENSOR
145	L	ACCELERATOR PEDAL POSITION SENSOR 2
146	L	FUEL TANK PRESSURE SENSOR
148	L	STARTER RELAY-H
150	P	CAN-L
151	P	DRIVETRAIN CAN-L
152	B	EVAP CANISTER VENT CONTROL VALVE
153	G	EVAP BURGE CONTROL VALVE

CONSULT CHECKING SYSTEM (2.0L TURBO GASOLINE ENGINE)		
Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	OND
2	B	VALVE BATTERY (With VR30 engine)
3	G	VALVE BATTERY (With 2.0L turbo gasoline engine)
3	P	MOTOR BATTERY
4	Y	- (With VR30 engine)
5	LG	STOP LAMP SW SIGNAL (With ADAS)
5	V	- (With 2.0L turbo gasoline engine)
7	GR	RR LH WHEEL SENSOR SIGNAL
8	G	RR LH WHEEL SENSOR POWER SUPPLY
9	BR	FR RH WHEEL SENSOR SIGNAL
10	GR	FR RH WHEEL SENSOR POWER SUPPLY
13	R	VACUUM SENSOR SIGNAL
15	P	CAN-L (Without gateway)
15	R	CAN-L (With gateway)

JRAWC3718GB

# **CONSULT/GST CHECKING SYSTEM**

## < BASIC INSPECTION >

**CONSULT CHECKING SYSTEM (2.0L TURBO GASOLINE ENGINE WITHOUT AUTOMATIC DRIVE POSITIONER)**

Connector No.	M22
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Connector No.	M5
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	NH28FY-EX



Connector No.	M22
Connector Name	WIRING TO WIRE
Connector Type	T80MM/CS16/TM4
	
	
Terminal Color Of Wire No.	Signal Name [Specification]
1 L G	- [With VRD engine]
2 L	- [With 2.0L turbo gasoline engine]
2 SHIELD	- [With 2.0L turbo gasoline engine]
3 BR	- [With VRD engine]
3 R	- [With VRD engine]
4 SHIELD	- [With VRD engine]
4 Y	- [With 2.0L turbo gasoline engine]
5 G	- [With VRD engine]
5 V	- [With VRD engine]
6 BG	- [With VRD engine]
6 BR	- [With 2.0L turbo gasoline engine]
7 LG	- [With VRD engine]
7 P	- [With 2.0L turbo gasoline engine]
8 G	- [With 2.0L turbo gasoline engine]
8 P	- [With VRD engine]
9 LG	- [With 2.0L turbo gasoline engine]
9 SHIELD	- [With VRD engine]
10 V	-
11 GR	-
12 V	-
13 LG	-
14 LG	-
15 BR	- [With VRD engine]
15 P	- [With VRD engine]
16 SB	- [With DCM]
16 V	- [Without DCM]
17 Y	-
18 L	-
19 G	-
20 GR	-
21 V	-
22 V	-
23 L	- [With 2.0L turbo gasoline engine]
24 BG	- [With VRD engine]
24 V	- [With VRD engine]
25 V	- [With 2.0L turbo gasoline engine]



IC DRIVE POSITIONER

Connector No.	M14
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



Connector No.	M5
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	NH28FY-EX

IC DRIVE POSITIONER)			
Connector No.	M4 <th data-cs="2" data-kind="parent"></th> <th data-kind="ghost"></th>		
Connector Name	BCM(BODY CONTROL MODULE)		
Connector Type	TH40FB-NH		
Terminal No.	Wire	Signal Name [Specification]	
48	R	PUSH-BTN IGN SW/LILL PWR	
52	G	DONGLE LINK	
54	V	COMM/LINK	
55	R	RAN SENSOR	
59	P	CAN-L	
60	L	CAN-H	
61	G	REAR WINDOW DEF RLY/CONT	
62	R	STARTER RL/CONT	
64	V	1-KEY/WARN BUZZER	
65	B	OUTS/HD LAMP/CONT	
66	B	BLOWER FAN/RY/CONT (WITH VR30 engine)	
66	Y	BLOWER FAN/BLU/CONT (WITH VR30 engine)	
67	W/B	IGN RUYA/F/B/CONT	
68	R	DIMMER	
69	GR	AUT SHIFT SELECT PWRSH/LY	
70	B	IGN RUYA/(PDR/E/R)/CONT	
71	G	DR/DOOR REG SW	
72	SB	PASS DOOR REG SW	
73	BR	COMB SW/REG/5	
76	BS	COMB SW INPUT 4	
77	V	COMB SW INPUT 3	
78	Y	COMB SW INPUT 2	
79	LG	COMB SW INPUT 1	
80	L	TRI LID OPNS/SW	

CONSULT CHECKING SYSTEM (2.0L TU)

Connector No.	F2
Connector Name	A/T ASSEMBLY
Connector Type	RK10FG-DGY



terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	IGNITION POWER SUPPLY (With 2.0L turbo gasoline engine)
1	L	IGNITION POWER SUPPLY (With VR30 engine)
2	P	BATTERY POWER SUPPLY (MEMORY BACK-UP)
3	L	CAN-H
4	R	K-LINE
5	BR	GROUND (With 2.0L turbo gasoline engine)
5	BR	GROUND (With VR30 engine)
6	GR	IGNITION POWER SUPPLY
7	BG	BACK-UP LAMP RELAY
8	P	CAN-L
9	V	STARTER RELAY
10	B	GROUND

IRAWC3719GB

# CONSULT/GST CHECKING SYSTEM

**< BASIC INSPECTION >**

## CONSULT CHECKING SYSTEM (2.0L TURBO GASOLINE ENGINE WITHOUT AUTOMATIC DRIVE POSITIONER)

				Terminal No.		Color Of Wire	Signal Name [Specification]
25	SB	-	-	99	P	-	- [With 2.0L turbo gasoline engine]
26	G	-	-	99	V	-	- [With VR30 engine and without BOSE system]
26	W	-	-	100	BR	-	- [With VR30 engine and without BOSE system]
27	R	-	-	100	W	-	- [With 2.0L turbo gasoline engine]
29	LG	-	-	71	GR	-	- [With VR30 engine]
30	SB	-	-	71	R	-	- [With 2.0L turbo gasoline engine]
30	W	-	-	72	G	-	- [With VR30 engine]
31	SHEILD	-	-	72	V	-	- [With 2.0L turbo gasoline engine]
32	L	-	-	73	LG	-	- [With 2.0L turbo gasoline engine]
33	B	-	-	73	SHEILD	-	- [With VR30 engine]
33	LG	-	-	74	L	-	- [With VR30 engine]
34	SHEILD	-	-	74	LG	-	- [With 2.0L turbo gasoline engine]
35	LG	-	-	75	P	-	- [With VR30 engine]
35	W	-	-	76	SB	-	- [With 2.0L turbo gasoline engine]
36	R	-	-	76	V	-	- [With VR30 engine]
36	V	-	-	77	Y	-	- [With VR30 engine]
37	R	-	-	78	L	-	- [With 2.0L turbo gasoline engine]
37	V	-	-	79	G	-	- [With 2.0L turbo gasoline engine]
38	W	-	-	80	GR	-	- [With 2.0L turbo gasoline engine]
39	P	-	-	80	W	-	- [With VR30 engine]
39	R	-	-	81	B	-	- [With VR30 engine]
39	V	-	-	81	R	-	- [With 2.0L turbo gasoline engine]
40	G	-	-	82	G	-	- [With 2.0L turbo gasoline engine]
41	L	-	-	82	SHEILD	-	- [With VR30 engine]
42	R	-	-	83	R	-	- [With 2.0L turbo gasoline engine]
43	SHEILD	-	-	83	W	-	- [With VR30 engine]
44	P	-	-	84	BB	-	- [With 2.0L turbo gasoline engine]
45	B	-	-	84	SHEILD	-	- [With 2.0L turbo gasoline engine]
45	G	-	-	85	BR	-	- [With 2.0L turbo gasoline engine]
46	SHEILD	-	-	85	G	-	- [With 2.0L turbo gasoline engine]
47	G	-	-	86	R	-	- [With 2.0L turbo gasoline engine]
48	BR	-	-	86	V	-	- [With VR30 engine]
48	BR	-	-	87	LG	-	- [With 2.0L turbo gasoline engine]
49	G	-	-	87	SHEILD	-	- [With VR30 engine]
50	V	-	-	89	BR	-	- [With 2.0L turbo gasoline engine]
51	V	-	-	90	SB	-	- [With 2.0L turbo gasoline engine]
52	L	-	-	90	V	-	- [With VR30 engine]
52	Y	-	-	92	L	-	- [With 2.0L turbo gasoline engine]
53	R	-	-	92	W	-	- [With VR30 engine]
54	GR	-	-	93	R	-	- [With VR30 engine]
55	L	-	-	93	SHEILD	-	- [With 2.0L turbo gasoline engine]
56	P	-	-	94	R	-	- [With 2.0L turbo gasoline engine]
57	R	-	-	95	L	-	- [With 2.0L turbo gasoline engine]
58	LG	-	-	95	Y	-	- [With VR30 engine]
59	SB	-	-	96	R	-	- [With 2.0L turbo gasoline engine]
61	L	-	-	96	W	-	- [With VR30 engine]
62	P	-	-	97	L	-	- [With VR30 engine]
62	V	-	-	97	R	-	- [With 2.0L turbo gasoline engine]
63	L	-	-	98	BR	-	- [With VR30 engine and with BOSE system]
64	W	-	-	99	BR	-	- [With VR30 engine and with BOSE system]

JRAWC3720GB

# CONSULT/GST CHECKING SYSTEM

**< BASIC INSPECTION >**

## CONSULT CHECKING SYSTEM (2.0L TURBO GASOLINE ENGINE WITHOUT AUTOMATIC DRIVE POSITIONER)

Connector No.		M88		Connector No.		M100		Connector No.		M147	
Connector No.	Connector Name	A/C AUTO AMP.	Connector No.	Connector Name	DISPLAY CONTROL UNIT	Connector No.	Connector Name	ECU	Connector Name	ECU	
Connector Type	TH40FW-NH		Connector Type	TR2AFW-NH		Connector Type	TR2AFW-NH		Connector Type	RH40FF-RZ8-R-HZ	
1	L	-	17C	L	-	18C	BG	-	[Without DRPO]	-	[With DRPO]
2	P	-	18C	P	-	19C	B	-	-	-	-
3	R	-	19C	R	-	20C	W	-	-	-	-
4	L	-	20C	L	-	21C	L	-	-	-	-
5	P	-	21C	P	-	22C	L	-	-	-	-
6	S	-	22C	S	-	23C	L	-	-	-	-
7	G	-	23C	G	-	25C	LG	-	-	-	-
8	BR	-	25C	BR	-	26C	SB	-	-	-	-
9	BR	-	26C	BR	-	27C	P	-	-	-	-
10	BR	-	27C	BR	-	28C	W	-	-	-	-
11	BR	-	28C	W	-	29C	W	-	-	-	-
12	BR	-	29C	W	-	30C	R	-	-	-	-
13	BR	-	30C	R	-	31C	W	-	-	-	-
14	BR	-	31C	W	-	32C	R	-	-	-	-
15	BR	-	32C	R	-	33C	B	-	-	-	-
16	BR	-	33C	B	-	34C	R	-	-	-	-
17	BR	-	34C	R	-	35C	W/B	-	-	-	-
18	BR	-	35C	W/B	-	36C	SB	-	-	-	-
19	BR	-	36C	SB	-	37C	W	-	-	-	-
20	BR	-	37C	W	-	38C	SB	-	-	-	-
21	BR	-	38C	SB	-	39C	V	-	-	-	-
22	BR	-	39C	V	-	3C	P	-	-	-	-
23	BR	-	3C	P	-	40C	G	-	-	-	-
24	BR	-	40C	G	-	4C	P	-	-	-	-
25	BR	-	4C	P	-	5C	P	-	-	-	-
26	BR	-	5C	P	-	6C	G	-	-	-	-
27	BR	-	6C	G	-	7C	G	-	-	-	-
28	BR	-	7C	G	-	8C	G	-	-	-	-
29	BR	-	8C	G	-	9C	V	-	-	-	-
30	BR	-	9C	V	-	40	BG	-	-	-	-
31	BR	-	40	BG	-	27	LG	-	-	-	-
32	BR	-	27	LG	-	28	BR	-	-	-	-
33	BR	-	28	BR	-	30	BR	-	-	-	-
34	Y	-	30	BR	-	37	B	-	-	-	-
35	SB	-	37	B	-	38	BG	-	-	-	-
36	SB	-	38	BG	-	39	BR	-	-	-	-
37	SB	-	39	BR	-	40	BG	-	-	-	-
38	SB	-	40	BG	-	41	BR	-	-	-	-
39	SB	-	41	BR	-	42	LG	-	-	-	-
40	SB	-	42	LG	-	43	BR	-	-	-	-
41	SB	-	43	BR	-	44	BR	-	-	-	-
42	SB	-	44	BR	-	45	R	-	-	-	-
43	SB	-	45	R	-	46	R	-	-	-	-
44	SB	-	46	R	-	47	B	-	-	-	-
45	SB	-	47	B	-	48	B	-	-	-	-

Connector No.		M133		Connector No.		M133		Connector No.		M133	
Connector No.	Connector Name	FUSE BLOCK (J/B)	Connector No.	Connector Name	INTAKE SENSOR SIGNAL	Connector No.	Connector Name	EXHAUST GAS (OUTLET) OZONE DETECTING SENSOR SIGNAL	Connector No.	Connector Name	EMCM GROUND
Connector Type	TH40FW-NH		Connector Type	TR2AFW-NH		Connector Type	TR2AFW-NH		Connector Type	TR2AFW-NH	
10C	V	-	12C	L	-	13C	L	-	14C	Y	-
13C	L	-	14C	Y	-	15C	R	-	16C	R	-

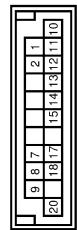
# CONSULT/GST CHECKING SYSTEM

**< BASIC INSPECTION >**

GI

## CONSULT CHECKING SYSTEM (2.0L TURBO GASOLINE ENGINE WITHOUT AUTOMATIC DRIVE POSITIONER)

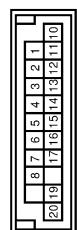
Connector No.	M178
Connector Name	JOINT CONNECTOR-M08
Connector Type	NH20FL-DC



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



Connector No.	M171
Connector Name	JOINT CONNECTOR-M01
Connector Type	24342_4GA2A



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



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



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



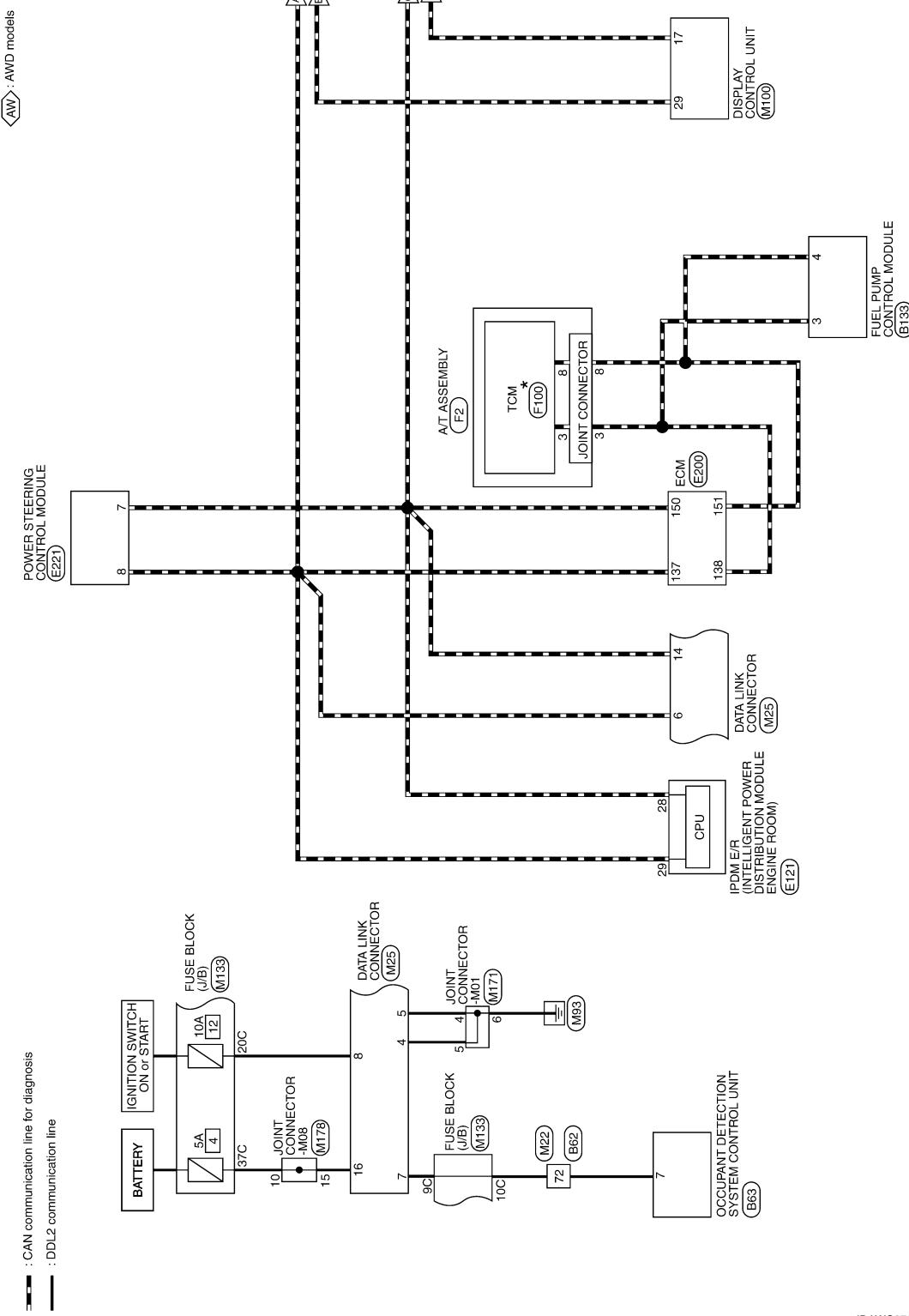
JRAWC3722GB

# CONSULT/GST CHECKING SYSTEM

< BASIC INSPECTION >

2.0L TURBO GASOLINE ENGINE WITH AUTOMATIC DRIVE POSITIONER

## CONSULT CHECKING SYSTEM (2.0L TURBO GASOLINE ENGINE WITH AUTOMATIC DRIVE POSITIONER)

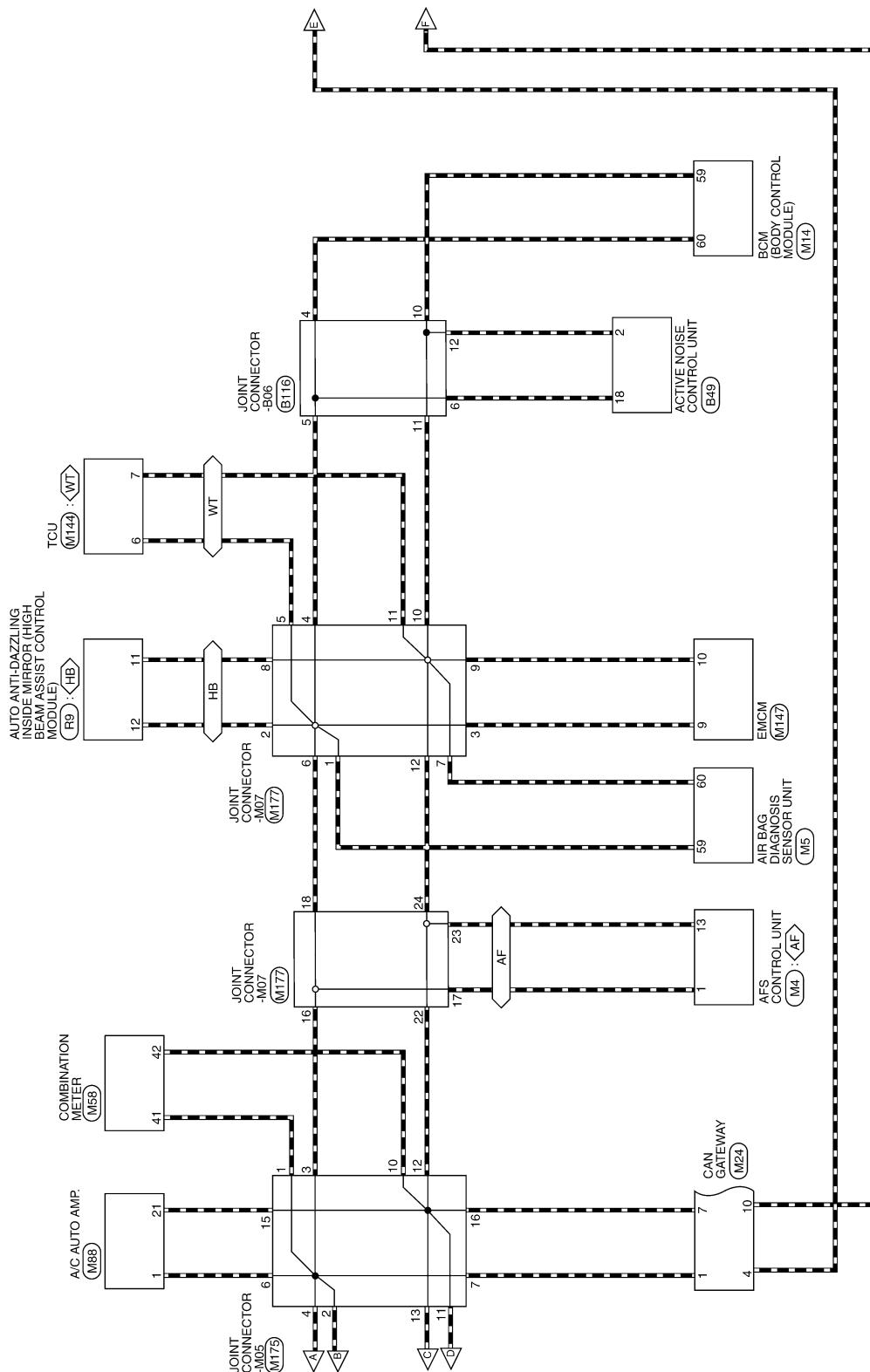


\* : This connector is not shown in 'Harness Layout'.

2016/02/15

# CONSULT/GST CHECKING SYSTEM

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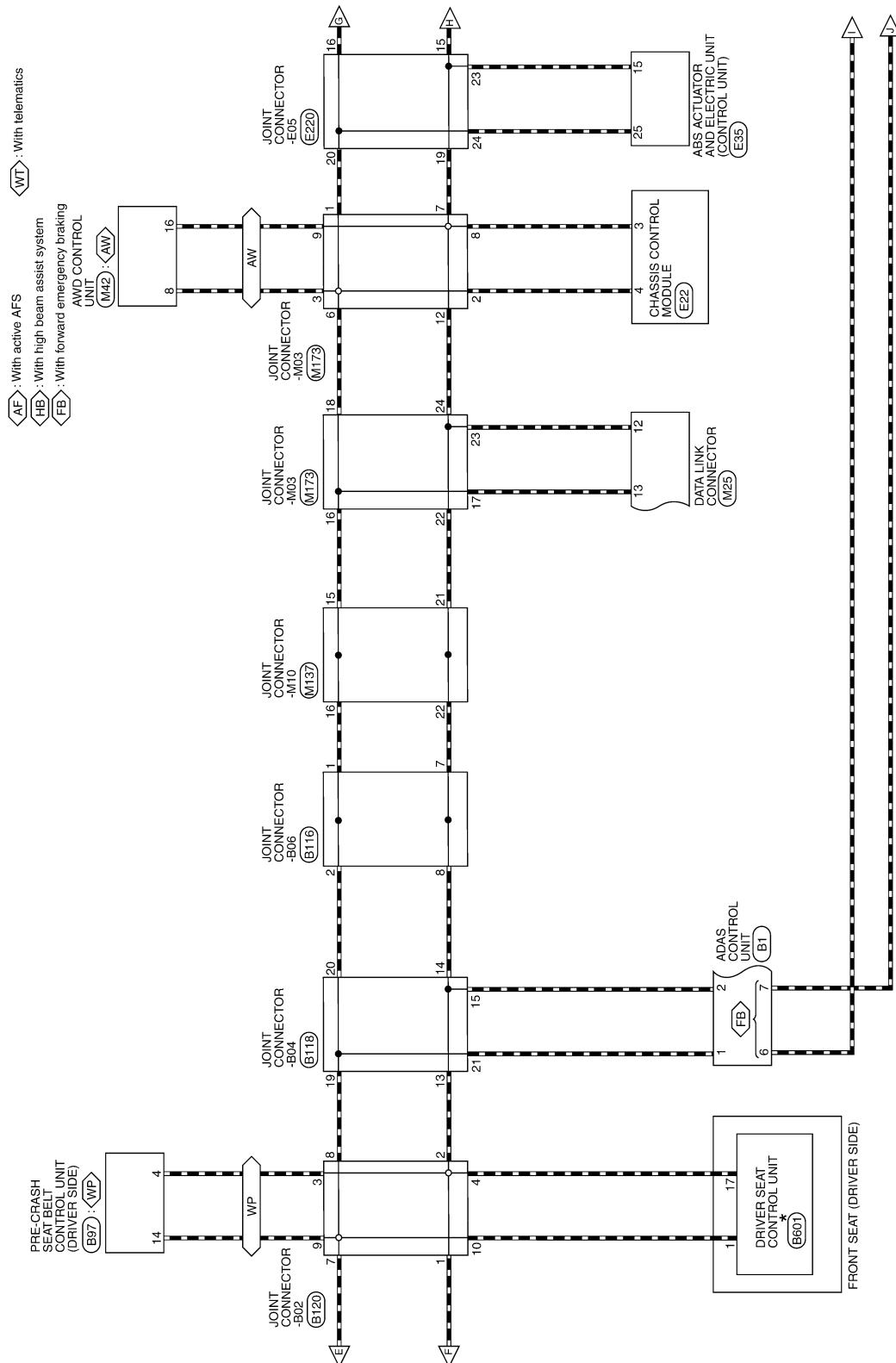


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G I B C D M T G I E Z O P

# CONSULT/GST CHECKING SYSTEM

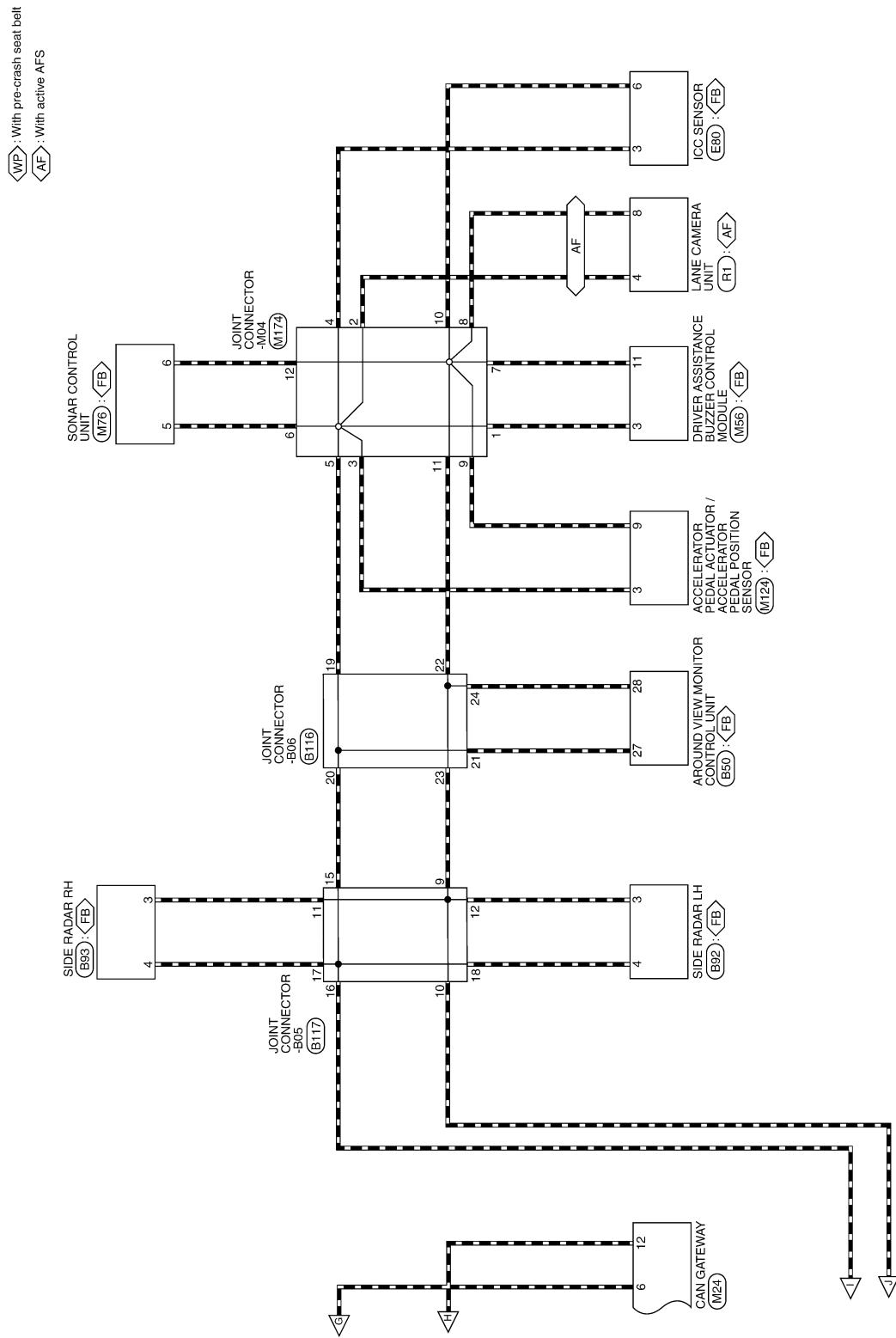
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# CONSULT/GST CHECKING SYSTEM

< BASIC INSPECTION >



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# CONSULT/GST CHECKING SYSTEM

**< BASIC INSPECTION >**

## CONSULT CHECKING SYSTEM (2.0L TURBO GASOLINE ENGINE WITH AUTOMATIC DRIVE POSITIONER)

Connector No.	B3	Signal Name [Specification]	Terminal Color Of Wire	Color Of Wire	Signal Name [Specification]	Terminal Color Of Wire	Color Of Wire	Signal Name [Specification]
Connector Name	A/DAS CONTROL UNIT	12 G SOUND SIGNAL FRONT LH (+)	13 R SOUND SIGNAL FRONT RH (+)	-	21 R	22 V	-	-
Connector Type	TH24FW-NH	14 LG SOUND SIGNAL REAR LH (+)	15 B SOUND SIGNAL REAR RH (+)	-	23 W	-	-	-
		16 V ACC	17 L CAN-H	-	24 BG	-	[With 2.0L turbo gasoline engine]	[With VR30 engine]
		18 P ENGINE SPEED SIGNAL	19 IGN	-	24 V	-	[With 2.0L turbo gasoline engine]	[With VR30 engine]
		20 W	21 B GRID	-	25 SB	G	-	[With VR30 engine]
		23 Y BAT	24 R FRONT MICROPHONE SIGNAL (-)	-	26 G	-	[With 2.0L turbo gasoline engine]	[With VR30 engine]
		25 W SOUND SIGNAL FRONT LH (-)	26 L SOUND SIGNAL REAR LH (-)	-	27 R	-	[With 2.0L turbo gasoline engine]	[With VR30 engine]
		28 L SOUND SIGNAL REAR RH (-)	29 P SOUND SIGNAL REAR LH (-)	-	29 LG	-	[With 2.0L turbo gasoline engine]	[With VR30 engine]
		30 W SOUND SIGNAL REAR RH (-)	31 Y SHIELD	-	30 P	-	[With VR30 engine]	[With VR30 engine]
		32 R CAN-H	33 B CAN-L	-	31 SHIELD	-	[With VR30 engine]	[With VR30 engine]
		34 G GND	35 L GND	-	32 L	-	[With VR30 engine]	[With VR30 engine]
Terminal No.	1 L	2 R	3 G	-	33 B	G	-	[With VR30 engine]
	4 L	5 R	6 L	-	33 LG	-	[With 2.0L turbo gasoline engine]	[With VR30 engine]
	7 Y	8 L	9 R	-	34 SHIELD	-	[With VR30 engine]	[With VR30 engine]
	10 G	11 V	12 GR	-	35 LG	-	[With 2.0L turbo gasoline engine]	[With VR30 engine]
	13 V	14 Y	15 V	-	35 W	-	[With 2.0L turbo gasoline engine]	[With VR30 engine]
	16 G	17 V	18 GR	-	36 R	-	[With VR30 engine]	[With VR30 engine]
	19 V	20 Y	21 V	-	36 W	-	[With 2.0L turbo gasoline engine]	[With VR30 engine]
	22 G	23 Y	24 SB	-	37 P	-	[With 2.0L turbo gasoline engine and without BOSE system]	[With VR30 engine]
	25 V	26 Y	27 V	-	37 R	-	[With 2.0L turbo gasoline engine and without BOSE system]	[With VR30 engine]
	28 G	29 Y	30 V	-	38 W	-	[With 2.0L turbo gasoline engine and with BOSE system]	[With VR30 engine]
	31 V	32 Y	33 V	-	39 P	-	[With VR30 engine and without BOSE system]	[With VR30 engine]
	34 G	35 Y	36 V	-	39 R	-	[With VR30 engine and with BOSE system]	[With VR30 engine]
	37 B	38 V	39 V	-	39 W	-	[With VR30 engine and with BOSE system]	[With VR30 engine]
Connector No.	B49	ACTIVE NOISE CONTROL UNIT	7 BR CAN-H	-	40 G	-	[With VR30 engine and with BOSE system]	[With VR30 engine]
Connector Name			7 W CAN-L	-	41 L	-	[With VR30 engine and without BOSE system]	[With VR30 engine]
Connector Type	TH32FW-NH		7 Y GND	-	42 R	-	[With VR30 engine and without BOSE system]	[With VR30 engine]
			8 B BAT	-	43 SHIELD	-	[With VR30 engine and with BOSE system]	[With VR30 engine]
			8 G CAN-L	-	44 P	-	[With 2.0L turbo gasoline engine]	[With VR30 engine]
			9 Y CAN-H	-	45 B	-	[With 2.0L turbo gasoline engine]	[With VR30 engine]
			9 LG SHIELD	-	45 G	-	[With VR30 engine]	[With VR30 engine]
			10 V AV COMM (U)	-	46 SHIELD	-	[With 2.0L turbo gasoline engine]	[With VR30 engine]
			11 GR AV COMM (L)	-	47 G	-	[With VR30 engine]	[With VR30 engine]
			12 Y REVERSE SIGNAL	-	48 BG	-	[With VR30 engine]	[With VR30 engine]
			13 R CAN-H	-	49 G	-	[With VR30 engine]	[With VR30 engine]
			14 BG CAN-L (Without ADAS) For VR30 engine	-	50 V	-	[With VR30 engine]	[With VR30 engine]
			15 BG CAN-L (Without ADAS) For 2.0L turbo gasoline engine	-	51 GR	-	[With 2.0L turbo gasoline engine]	[With VR30 engine]
			15 GR CAN-L (Without ADAS) For 2.0L turbo gasoline engine	-	52 Y	-	[With VR30 engine]	[With VR30 engine]
			16 V CAN-L (For VR30 engine)	-	53 R	-	[With VR30 engine]	[With VR30 engine]
			17 P RETRACT MOTOR OPERATING SIGNAL (OPEN)	-	54 GR	-	[With VR30 engine]	[With VR30 engine]
			18 L RETRACT MOTOR OPERATING SIGNAL (CLOSE)	-	55 L	-	[With VR30 engine]	[With VR30 engine]
			19 R FRONT MICROPHONE SIGNAL (+)	-	56 V	-	[With VR30 engine]	[With VR30 engine]
			20 GR REAR MICROPHONE SIGNAL (-)	-	57 R	-	[With VR30 engine]	[With VR30 engine]

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# CONSULT/GST CHECKING SYSTEM

**< BASIC INSPECTION >**

## CONSULT CHECKING SYSTEM (2.0L TURBO GASOLINE ENGINE WITH AUTOMATIC DRIVE POSITIONER)

				Signal Name [Specification]		Terminal No.		Color Of Wire		Signal Name [Specification]		Terminal No.		Color Of Wire		Signal Name [Specification]	
58	LG	-	-	-	-	95	R	-	-	-	-	14	L	-	-	CAN HI	LOCAL COMM 1
59	P	-	-	-	-	96	Y	-	-	-	-	16	Y	-	-	SENS. GND	GROUND
61	L	-	-	-	-	96	W	-	-	-	-	17	W	-	-	MOTOR BAT	[With 2.0L turbo gasoline engine]
62	P	-	-	-	-	97	L	-	-	-	-	19	BR	-	-	MOTOR BAT	[With V830 engine]
62	V	-	-	-	-	97	R	-	-	-	-	19	Y	-	-	MOTOR BAT	[With V830 engine]
63	L	-	-	-	-	97	W	-	-	-	-	20	B	-	-	MOTOR GND	[With V830 engine]
64	W	-	-	-	-	98	LG	-	-	-	-	-	-	-	-	BUTTON WARNING/BLD/INTENTION INDICATOR	-
65	LG	-	-	-	-	99	BR	-	-	-	-	-	-	-	-	IGNITION	-
68	L	-	-	-	-	99	P	-	-	-	-	-	-	-	-	BOARD	-
69	P	-	-	-	-	99	Y	-	-	-	-	-	-	-	-	BOARD	-
71	GR	-	-	-	-	100	BR	-	-	-	-	-	-	-	-	SIDE RADAR RH	-
71	R	-	-	-	-	100	W	-	-	-	-	-	-	-	-	AAC05FB-WP	-
72	G	-	-	-	-	100	W	-	-	-	-	-	-	-	-	BOARD	-
72	Y	-	-	-	-	100	W	-	-	-	-	-	-	-	-	BOARD	-
73	R	-	-	-	-	100	W	-	-	-	-	-	-	-	-	BOARD	-
73	SHIELD	-	-	-	-	100	W	-	-	-	-	-	-	-	-	BOARD	-
74	BG	-	-	-	-	100	W	-	-	-	-	-	-	-	-	BOARD	-
74	L	-	-	-	-	100	W	-	-	-	-	-	-	-	-	BOARD	-
75	GR	-	-	-	-	100	W	-	-	-	-	-	-	-	-	BOARD	-
75	V	-	-	-	-	100	W	-	-	-	-	-	-	-	-	BOARD	-
76	GR	-	-	-	-	100	W	-	-	-	-	-	-	-	-	BOARD	-
76	V	-	-	-	-	100	W	-	-	-	-	-	-	-	-	BOARD	-
77	P	-	-	-	-	100	W	-	-	-	-	-	-	-	-	BOARD	-
78	L	-	-	-	-	100	W	-	-	-	-	-	-	-	-	BOARD	-
79	R	-	-	-	-	100	W	-	-	-	-	-	-	-	-	BOARD	-
80	GR	-	-	-	-	100	W	-	-	-	-	-	-	-	-	BOARD	-
80	W	-	-	-	-	100	W	-	-	-	-	-	-	-	-	BOARD	-
81	B	-	-	-	-	100	W	-	-	-	-	-	-	-	-	BOARD	-
81	R	-	-	-	-	100	W	-	-	-	-	-	-	-	-	BOARD	-
82	BG	-	-	-	-	100	W	-	-	-	-	-	-	-	-	BOARD	-
82	SHIELD	-	-	-	-	100	W	-	-	-	-	-	-	-	-	BOARD	-
83	Y	-	-	-	-	100	W	-	-	-	-	-	-	-	-	BOARD	-
83	W	-	-	-	-	100	W	-	-	-	-	-	-	-	-	BOARD	-
84	BR	-	-	-	-	100	W	-	-	-	-	-	-	-	-	BOARD	-
84	SHIELD	-	-	-	-	100	W	-	-	-	-	-	-	-	-	BOARD	-
85	BG	-	-	-	-	100	W	-	-	-	-	-	-	-	-	BOARD	-
85	G	-	-	-	-	100	W	-	-	-	-	-	-	-	-	BOARD	-
86	R	-	-	-	-	100	W	-	-	-	-	-	-	-	-	BOARD	-
86	W	-	-	-	-	100	W	-	-	-	-	-	-	-	-	BOARD	-
87	LG	-	-	-	-	100	W	-	-	-	-	-	-	-	-	BOARD	-
87	SHIELD	-	-	-	-	100	W	-	-	-	-	-	-	-	-	BOARD	-
89	LG	-	-	-	-	100	W	-	-	-	-	-	-	-	-	BOARD	-
90	P	-	-	-	-	100	W	-	-	-	-	-	-	-	-	BOARD	-
90	V	-	-	-	-	100	W	-	-	-	-	-	-	-	-	BOARD	-
92	L	-	-	-	-	100	W	-	-	-	-	-	-	-	-	BOARD	-
92	W	-	-	-	-	100	W	-	-	-	-	-	-	-	-	BOARD	-
93	R	-	-	-	-	100	W	-	-	-	-	-	-	-	-	BOARD	-
93	SHIELD	-	-	-	-	100	W	-	-	-	-	-	-	-	-	BOARD	-
94	R	-	-	-	-	100	W	-	-	-	-	-	-	-	-	BOARD	-
95	L	-	-	-	-	100	W	-	-	-	-	-	-	-	-	BOARD	-

JRAWC3728GB

# **CONSULT/GST CHECKING SYSTEM**

## **< BASIC INSPECTION >**

**CONSULT CHECKING SYSTEM (2.0L TURBO GASOLINE ENGINE WITH AUTOMATIC DRIVE POSITIONER)**

JRAWC3729GB

# CONSULT/GST CHECKING SYSTEM

**< BASIC INSPECTION >**

## CONSULT CHECKING SYSTEM (2.0L TURBO GASOLINE ENGINE WITH AUTOMATIC DRIVE POSITIONER)

Terminal No.	Color Of Wire	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]
5 V	G	PULSE (TELESCOPIC)	19 L	G	CHASSIS COMM-H (With VR30 engine)
6 ADDRESS 2	GY	IND 2	19 CHASSIS COMM-H (With 2.0L turbo gasoline engine)	L	-
7 G	V	SIDE SW (BACKWARD)	23 G	GR	ESS RELAY (With VR30 engine)
8 V	V	RECLINER SW (BACKWARD)	23 R	V	ESS RELAY (With 2.0L turbo gasoline engine)
9 W	W	TILT SW (DOWNWARD)	10 O	-	Connector No. AA205FB
11 G	SB	POWER SUPPLY (ENCODER)	12 SB	-	Connector Type E35
17 P	CAN-L	PULSE (SIDE SENSOR)	18 LG	CAN-L	Connector Name E200
19 W	PULSE (LIFTER FRONT)	PULSE (LIFTER REAR)	20 GY	CAN-L	Connector Type AA231FB-AH76
21 SB	PULSE (TILT SENSOR)	ADDRESS 1	22 O	-	H.S.
23 W	IND 1	IND 1	24 P	R	1. T5 COMMAH
25 Y	SIDE SW (FORWARD)	SIDE SW (FORWARD)	26 GY	Y	2. T5 COMM/L
27 L	LIFTER SW (UPWARD)	LIFTER SW (UPWARD)	28 Y	B	3. GND
	SE-TSW				4. GND
					5. GND
					6. GND
					7. GND
					8. GND
					9. GND
					10. GND
					11. GND
					12. GND
					13. GND
					14. GND
					15. GND
					16. GND
					17. GND
					18. GND
					19. GND
					20. GND
					21. GND
					22. GND
					23. GND
					24. GND
					25. GND
					26. GND
					27. GND
					28. GND
					29. GND
					30. GND
					31. GND
					32. GND
					33. GND
					34. GND
					35. GND
					36. GND
					37. GND
					38. GND
					39. GND
					40. GND
					41. GND
					42. GND
					43. GND

JRAWC3730GB

# CONSULT/GST CHECKING SYSTEM

**< BASIC INSPECTION >**

## CONSULT CHECKING SYSTEM (2.0L TURBO GASOLINE ENGINE WITH AUTOMATIC DRIVE POSITIONER)

Connector No.		F20		STARTER RELAY		5		Y		DR(+)	
Connector Name		A/T ASSEMBLY		GROUND		6		V/R		AS1(+)	
Connector Type		RK10FC-FGV		-		7		Y/B		AS1(-)	
Connector No.		Connector Name	M4	Connector Name	A/F CONTROL UNIT	9	Y	10	-	AS2(+)	AS2(-)
Connector Type		Connector Type	TH24FW-NH	Connector Type	ECZS+	18	Y	19	BR	ECZS-	ECZS+
						20	V/R	21	Y/B	ACT. VENT+	ACT. VENT-
						22	SHIELD	23	V	GND	ARMING/W/L
						24	G	25	GR	A/B OFF IND	-
						51	G	52	R	SIDE SEN. RH2-	SIDE SEN. LH2-
						53	V	54	L	SIDE SEN. LH2-	SIDE SEN. LH2-
						55	LG	59	L	CAN-H	CAN-L
						60	P			CAN-L	CAN-L
Terminal Color Of No.		Signal Name [Specification]		Terminal Color Of No.		Color Of Wire		Signal Name [Specification]		Signal Name [Specification]	
1	W	IGNITION POWER SUPPLY [With VR30 engine]	1	1	L	CAN-H	6	HIGH SENSOR SIGNAL	11	SWIVEL ACTUATOR LIN SIGNAL	12
2	W	IGNITION POWER SUPPLY [With VR30 engine]	2	1	P	CAN-L	6	BR	12	IGNITION POWER SUPPLY	13
3	W	BATTERY POWER SUPPLY [MINOR BACK-UP]	3	1	L	CAN-L	7	BR	13	IGNITION POWER SUPPLY [With VR30 engine]	14
4	L	BATTERY POWER SUPPLY [MINOR BACK-UP]	4	1	R	CAN-H	8	BR	14	IGNITION POWER SUPPLY [With VR30 engine]	15
5	L	GROUND [With 2.0L turbo gasoline engine]	5	1	R	CAN-L	9	BR	15	IGNITION POWER SUPPLY	16
6	R	GROUND [With 2.0L turbo gasoline engine]	6	1	R	CAN-L	10	BR	16	IGNITION POWER SUPPLY	17
7	R	GROUND [With 2.0L turbo gasoline engine]	7	1	R	CAN-L	11	BR	17	IGNITION POWER SUPPLY	18
8	R	GROUND [With 2.0L turbo gasoline engine]	8	1	R	CAN-L	12	BR	18	IGNITION POWER SUPPLY	19
11	W	-	11	1	R	CAN-L	13	P	19	IGNITION POWER SUPPLY	20
12	L	-	12	1	R	CAN-L	14	P	20	IGNITION POWER SUPPLY	21
15	P	- [Without Gateway]	15	1	R	CAN-L	21	IG	21	IGNITION POWER SUPPLY	22
15	R	- [Without Gateway]	16	1	R	CAN-L	22	SB	22	IGNITION POWER SUPPLY	23
16	L	-	16	1	R	CAN-L	23	GR	23	IGNITION POWER SUPPLY	24
19	P	- [Without Gateway]	17	1	R	CAN-L	24	B	24	IGNITION POWER SUPPLY	25
19	R	- [Without Gateway]	18	1	R	CAN-L	25	B	25	IGNITION POWER SUPPLY	26
20	L	-	19	1	R	CAN-L	26	BR	26	IGNITION POWER SUPPLY	27
23	P	- [Without Gateway]	20	1	R	CAN-L	27	BR	27	IGNITION POWER SUPPLY	28
23	R	- [Without Gateway]	21	1	R	CAN-L	28	BR	28	IGNITION POWER SUPPLY	29
24	L	-	22	1	R	CAN-L	29	BR	29	IGNITION POWER SUPPLY	30
Connector No.		F100		AIMING MOTOR GROUND		30		53		54	
Connector Name	TCM	Connector Name	TCM	Connector Type	SP10FG	31	BR	32	BR	33	BR
Connector No.		MS		Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT	33	BR	34	BR	35	BR
Connector Name				Connector Type	NH28FX-EX	34	BR	35	BR	36	BR
Connector Type						35	BR	36	BR	37	BR
Terminal Color Of No.		Signal Name [Specification]		Terminal Color Of No.		Color Of Wire		Signal Name [Specification]		Signal Name [Specification]	
1	-	BATTERY POWER SUPPLY [MEMORY BACK-UP]	1	8	9	5	1	2	5	4	3
2	-	BATTERY POWER SUPPLY [MEMORY BACK-UP]	2	9	10	6	1	23	24	22	1
3	-	CAN-H	3	10	11	7	1	21	22	23	18
4	-	CAN-L	4	11	12	8	1	20	21	22	19
5	V	IGNITION POWER SUPPLY	5	-	-	-	18	51	52	53	50
7	P	CAN-L	6	-	-	-	52	53	54	55	56
8	L	CAN-H	7	-	-	-	53	54	55	56	57
Terminal Color Of No.		Signal Name [Specification]		Terminal Color Of No.		Color Of Wire		Signal Name [Specification]		Signal Name [Specification]	
1	-	IGNITION POWER SUPPLY	1	1	LG	GND	2	BR	3	Y/R	DR1(+)
2	-	IGNITION POWER SUPPLY	2	1	LG	GND	3	BR	4	Y/B	DR1(-)
6	-	IGNITION POWER SUPPLY	6	2	B	GND	7	BR	8	BR	DIMMER
7	-	BACK-UP LAMP RELAY	7	3	Y/R	DR1(+)	8	BR	9	R	DR1(-)
8	-	CAN-L	8	4	Y/B	DR1(-)					

JRAWC3731GB

# CONSULT/GST CHECKING SYSTEM

**< BASIC INSPECTION >**

## CONSULT CHECKING SYSTEM (2.0L TURBO GASOLINE ENGINE WITH AUTOMATIC DRIVE POSITIONER)

Connector No.	Connector Name	Wire To Wire	Connector Type
69	GR	AUT SHIFT SELECT POWER SUPPLY	
70	B	IGN RIVAY (IDPM/FR) CONT	
71	G	DR DOOR REG SW	
72	SB	PASS DOOR REQ SW	
75	BR	COMBI SW INPUT 5	
76	BG	COMBI SW INPUT 4	
77	V	COMBI SW INPUT 3	
78	Y	COMBI SW INPUT 2	
79	LG	COMBI SW INPUT 1	
80	L	TR UD OPNR SW	
16	SB	- [With DCM]	- [With VR30 engine]
17	V	- [Without DCM]	- [Without VR30 engine]
18	L	-	-
19	G	-	-
20	GR	-	-
21	R	-	-
22	V	-	-
23	LG	-	-
24	BG	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]
24	V	- [With VR30 engine]	-
25	L	- [With 2.0L turbo gasoline engine]	-
25	SB	-	-
26	G	- [With VR30 engine]	-
26	W	- [With 2.0L turbo gasoline engine]	-
27	R	-	-
29	LG	-	-
30	SB	- [With VR30 engine]	- [With VR30 engine]
31	W	- [With 2.0L turbo gasoline engine]	-
32	L	-	-
33	B	-	-
33	LG	- [With VR30 engine]	-
34	SHIELD	- [With 2.0L turbo gasoline engine]	-
35	LG	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]
35	W	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]
36	R	- [With VR30 engine]	-
36	V	- [With 2.0L turbo gasoline engine]	-
37	R	- [With VR30 engine]	-
37	V	- [With 2.0L turbo gasoline engine]	-
38	W	-	-
39	P	- [With VR30 engine and without BOSE system]	- [With VR30 engine]
39	R	- [With 2.0L turbo gasoline engine]	- [With 2.0L turbo gasoline engine]
39	V	- [With VR30 engine and with BOSE system]	-
40	G	- [With 2.0L turbo gasoline engine]	-
41	L	-	-
42	R	- [With VR30 engine]	-
43	SHIELD	- [With VR30 engine]	-
44	P	- [With 2.0L turbo gasoline engine]	-
45	B	- [With 2.0L turbo gasoline engine]	-
45	G	- [With VR30 engine]	-
46	SHIELD	-	-
47	G	- [With VR30 engine]	-
47	SHIELD	- [With VR30 engine]	-
48	V	-	-
48	BR	- [With VR30 engine and with BOSE system]	- [With VR30 engine]
49	G	- [With VR30 engine and with BOSE system]	- [With VR30 engine]
50	V	-	-
51	V	-	-
52	L	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]
52	Y	- [With VR30 engine]	- [With VR30 engine]
53	R	- [With VR30 engine]	- [With VR30 engine]
54	GR	- [With VR30 engine]	- [With 2.0L turbo gasoline engine]
55	L	-	-
56	P	-	-
57	R	-	-
58	LG	-	-
59	SB	-	-
60	W	-	-
61	L	-	-
62	P	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]
62	Y	- [With VR30 engine]	-
63	L	-	-
64	W	-	-
66	R	-	-
68	L	-	-
69	P	-	-
71	GR	- [With 2.0L turbo gasoline engine]	- [With VR30 engine]
71	R	-	-
72	G	- [With VR30 engine]	-
72	V	- [With 2.0L turbo gasoline engine]	-
73	LG	- [With 2.0L turbo gasoline engine]	-
73	SHIELD	-	-
74	L	-	-
74	LG	- [With 2.0L turbo gasoline engine]	-
75	P	-	-
76	SB	- [With 2.0L turbo gasoline engine]	-
76	V	- [With VR30 engine]	-
77	Y	-	-
78	L	-	-
79	G	-	-
80	W	- [With 2.0L turbo gasoline engine]	-
81	B	- [With VR30 engine]	-
81	R	- [With 2.0L turbo gasoline engine]	-
82	G	- [With 2.0L turbo gasoline engine]	-
82	SHIELD	-	-
83	R	-	-
83	LG	- [With 2.0L turbo gasoline engine]	-
84	BR	- [With VR30 engine]	-
84	SHIELD	- [With 2.0L turbo gasoline engine]	-
85	BR	- [With VR30 engine]	-
85	G	- [With 2.0L turbo gasoline engine]	-
86	R	-	-
86	V	- [With 2.0L turbo gasoline engine]	-
87	LG	- [With VR30 engine]	-
87	SHIELD	- [With 2.0L turbo gasoline engine]	-
89	BR	- [With VR30 engine]	-
89	LG	- [With 2.0L turbo gasoline engine]	-
90	SB	- [With 2.0L turbo gasoline engine]	-
90	V	- [With VR30 engine]	-
92	L	- [With VR30 engine]	-



# CONSULT/GST CHECKING SYSTEM

**< BASIC INSPECTION >**

## CONSULT CHECKING SYSTEM (2.0L TURBO GASOLINE ENGINE WITH AUTOMATIC DRIVE POSITIONER)

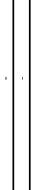
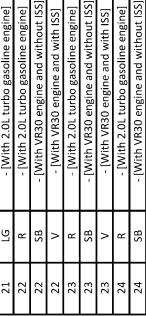
Connector No.	M100	Terminal Color Of Wire	Signal Name [Specification]	Connector No.	M144	Terminal Color Of Wire	Signal Name [Specification]
Connector Name	DISPLAY CONTROL UNIT	7	B	Connector Name	TU	-	-
Connector Type	TH24FW-NH	9	Y	Connector Type	T440FB-EH	38C	W
		10	L			39C	Sb
		11	R			3C	V
		12	BR			40C	G
						4C	P
						5C	P
						6C	-
						7C	G
						8C	G
						9C	V
Connector No.	M133			Connector No.	M137		
Connector Name	FUSE BLOCK (J/B)			Connector Name	JOINT CONNECTOR-M10		
Connector Type	TH40FW-NH			Connector Type	24342-4G2A2		
						1	Y
						2	Sb
						3	V
						5	BR
						6	L
						7	P
						10	R
						11	9
						16	15
						17	14
						18	13
						22	21
						23	20
						24	19
Terminal Color Of Wire				Terminal Color Of Wire			
No.				No.			
16	LG	AV COMM (L)		10C	V	IGN [For VR30 engine]	CAN-L
17	P	CAN-L		12C	L	IGN [For 2.0L turbo gasoline engine]	IGN [For VR30 engine]
19	R	DIMMER SIGNAL		13C	L	VEHICLE SPEED SIGNAL (8-PULSE)	MICROPHONE SIGNAL GND
20	BR	REVERSE SIGNAL		14C	Y	ACC (Except for VR30 engine and with ISS)	MICROPHONE OUTPUT SIGNAL
22	B	GND		15C	R	ACC (For VR30 engine and with ISS)	SHIELD
26	BR	CAMERA SWITCH SIGNAL		16C	R	-	MICROPHONE SIGNAL
28	Sb	AV COMM (H)		17C	L	-	MICROPHONE VCC
29	L	CAN-H		18C	BG	- (Without DRFO) - (With DRFO)	AV COMM (H)
30	R	IGN [For VR30 engine]		18C	P	- (With DRFO)	AV COMM (L)
30	W	IGN [For 2.0L turbo gasoline engine]		19C	B	-	GROUND
31	R	VEHICLE SPEED SIGNAL (8-PULSE)		20C	W	-	GROUND
33	Sb	ACC (Except for VR30 engine and with ISS)		21C	L	-	SHIELD
33	V	ACC (For VR30 engine and with ISS)		22C	L	-	SOUND SIGNAL (+)
34	Y	BAT		23C	L	-	SOUND SIGNAL (-)
				25C	LG	-	SOS CALL SWITCH SIGNAL
				26C	Sb	-	-
				27C	P	-	-
				28C	W	-	-
				29C	W	-	-
				2C	R	-	-
				30C	R	-	-
				31C	W	-	-
				32C	R	-	-
				33C	B	- (With VR30 engine)	-
				34C	R	- (With 2.0L turbo gasoline engine)	-
				35C	Sb	-	-
				36C	R	-	-

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# CONSULT/GST CHECKING SYSTEM

**< BASIC INSPECTION >**

## CONSULT CHECKING SYSTEM (2.0L TURBO GASOLINE ENGINE WITH AUTOMATIC DRIVE POSITIONER)

Connector No.	Connector Name	Connector No.	Connector Name	Connector No.	Connector Name
M147	ENCM	M171	JOINT CONNECTOR M01	M173	JOINT CONNECTOR M04
BH40FB-RZ8-E-LH-Z		24342_4GAAZ		24342_4GAAZ	
Connector Type		Connector Type		Connector Type	
  		  		 	
Terminal No.	Color Of Wire	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	EMCM RELAY CONTROL (S/OFF)	1	L	-
5	L	IGNITION SWITCH	2	L	-
6	LG	STOP/LAMP SWITCH	3	L	-
9	L	CAN-H	4	L	-
10	P	CAN-L	5	L	-
13	W	STOP/START OFF SWITCH	6	L	-
15	Y	MAIN POWER SUPPLY (MAIN BATTERY CURRENT MONITORING) (SUSPEND)	7	R	-
16	W	EMCM Power Supply (MAIN BATTERY CURRENT MONITORING) (SUSPEND)	8	R	-
21	V	SUB BATTERY RELAY CONTROL	9	R	-
22	G	ENGINE RESTART BYPASS CONTROL RELAY	10	R	-
23	BR	Brake Pedal Position Sensor	11	R	-
24	GR	Main Battery Current Sensor	12	R	-
25	BG	Main Battery Temperature Sensor	13	SB	-
26	R	Sub Battery Current Sensor	14	SB	-
27	BR	Sub Battery Temperature Sensor	15	SB	-
35	SB	Sub Ground Main Battery Current/Temperature Sensor	16	SB	-
36	G	EMCM GND BATTERY CURRENT/TEMPERATURE SENSOR	17	SB	-
42	G	EMCM POWER SUPPLY	18	SB	-
45	R	Sub Battery Voltage Monitor	18	Y	- [With 2.0L turbo gasoline engine]
47	B	EMCM GROUND	19	G	-
48	B	EMCM GROUND	20	G	-
22	LG	- [With VR30 engine]	19	BR	- [With VR30 engine]
22	SB	- [With 2.0L turbo gasoline engine]	19	SB	- [With VR30 engine and without ISS]
23	LG	- [With VR30 engine]	20	BR	- [With VR30 engine]
23	SB	- [With 2.0L turbo gasoline engine]	20	LG	- [With VR30 engine and without ISS]
24	LG	- [With VR30 engine]	21	BR	- [With VR30 engine]
24	SB	- [With 2.0L turbo gasoline engine]	21	LG	- [With VR30 engine and without ISS]
			22	R	- [With 2.0L turbo gasoline engine]
			22	SB	- [With VR30 engine and without ISS]
			23	V	- [With VR30 engine and with ISS]
			23	R	- [With 2.0L turbo gasoline engine]
			23	SB	- [With VR30 engine and without ISS]
			24	V	- [With VR30 engine and with ISS]
			24	SB	- [With VR30 engine and without ISS]
			24	V	- [With VR30 engine and with ISS]

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# CONSULT/GST CHECKING SYSTEM

**< BASIC INSPECTION >**

## CONSULT CHECKING SYSTEM (2.0L TURBO GASOLINE ENGINE WITH AUTOMATIC DRIVE POSITIONER)

Connector No.	M175	Connector No.	M178	Terminal No.	Color Of Wire	Signal Name [Specification]
Connector Name	JOINT CONNECTOR-M05	Connector Name	JOINT CONNECTOR-M08	1	B	GND
Connector Type	NH20FL-DC	Connector Type	NH20FM-DC	4	L	IT'S COM/MH
				5	B	GND
				7	G	IGNITION
				8	Y	IT'S COMM/L
		Connector No.	R8			
		Connector Name	AUTO ANTI-DAZZLING INSIDE MIRROR			
		Connector Type	TH12FW-NH-B			

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

Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	R	-
3	B	-
4	B	-
5	B	-
6	B	-
7	B	-
8	B	-
9	B	-
10	B	-
11	W	-
12	W	-
13	B	-
14	B	-
15	B	-
16	W	-
17	BR	-
18	BR	-
19	BR	-
20	BR	-

Terminal No.	R1	Signal Name [Specification]
1	GR	CAN-L
2	BR	CAN-H
3	P	IGNITION POWER SUPPLY
4	GR	AUTO ANTI-DAZZLING OUTSIDE MIRROR GROUND
5	BR	AUTO ANTI-DAZZLING OUTSIDE MIRROR GROUND
6	GR	IGNITION POWER SUPPLY
7	BR	AUTO ANTI-DAZZLING OUTSIDE MIRROR GROUND
8	BR	AUTO ANTI-DAZZLING OUTSIDE MIRROR GROUND
9	BR	IGNITION POWER SUPPLY
10	P	IGNITION POWER SUPPLY (Car or seat after description on product)
11	GR	IGNITION POWER SUPPLY (Car or seat after description on product)
12	BR	IGNITION POWER SUPPLY (Car or seat after description on product)
13	BR	IGNITION POWER SUPPLY (Car or seat after description on product)
14	BR	IGNITION POWER SUPPLY (Car or seat after description on product)
15	BR	IGNITION POWER SUPPLY (Car or seat after description on product)
16	W	-
17	BR	-
18	BR	-
19	BR	-
20	BR	-

JRAWC3736GB

**GI**

**D**

**C**  
**D**  
**E**

**F**  
**G**  
**H**  
**I**

**J**  
**K**  
**L**  
**M**

**N**  
**O**  
**P**

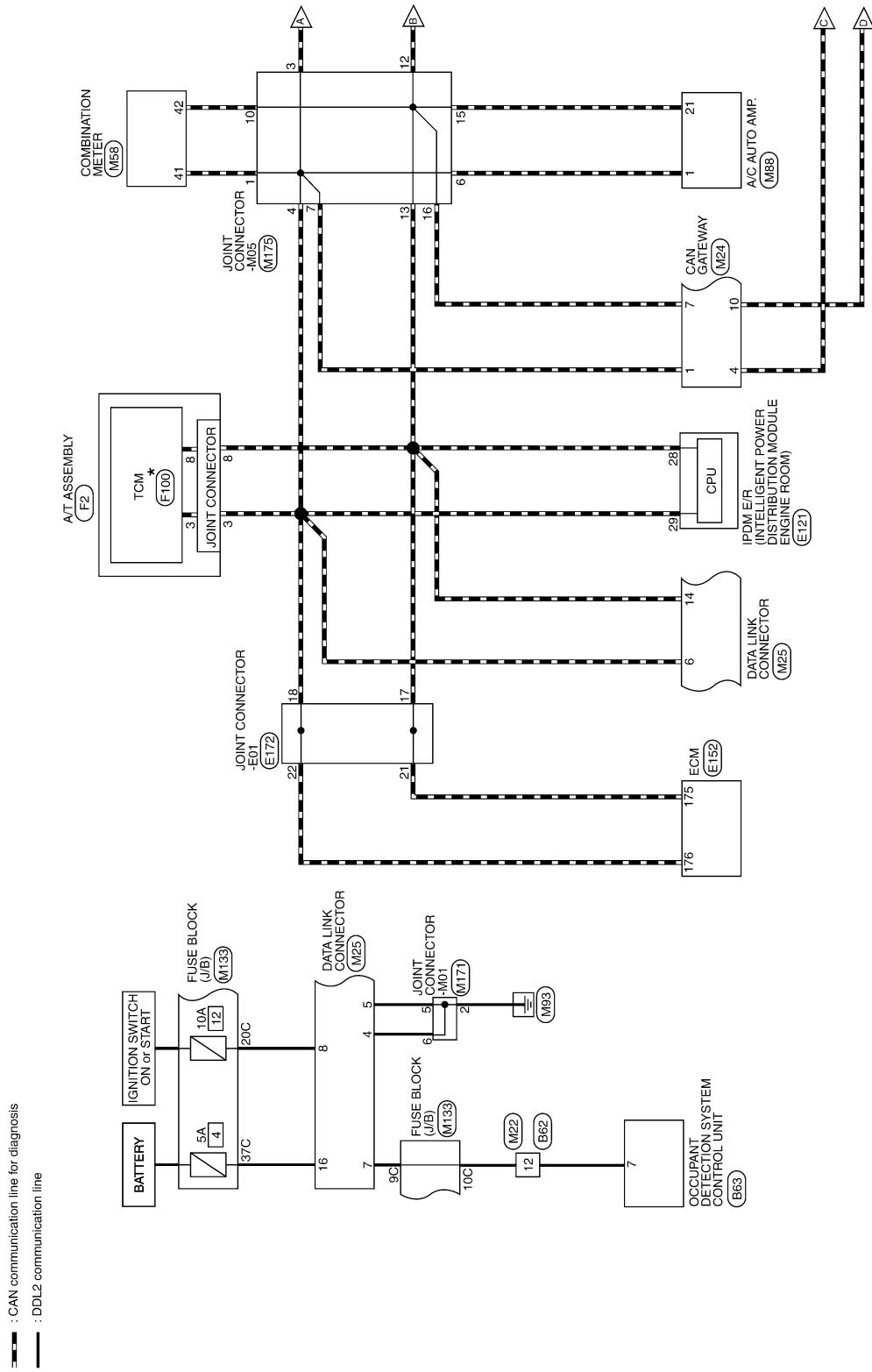
**Q**

# CONSULT/GST CHECKING SYSTEM

< BASIC INSPECTION >

VR ENGINE WITH DIRECT ADAPTIVE STEERING SYSTEM WITHOUT FEB

## CONSULT CHECKING SYSTEM (VR ENGINE WITH DIRECT ADAPTIVE STEERING SYSTEM WITHOUT FEB)



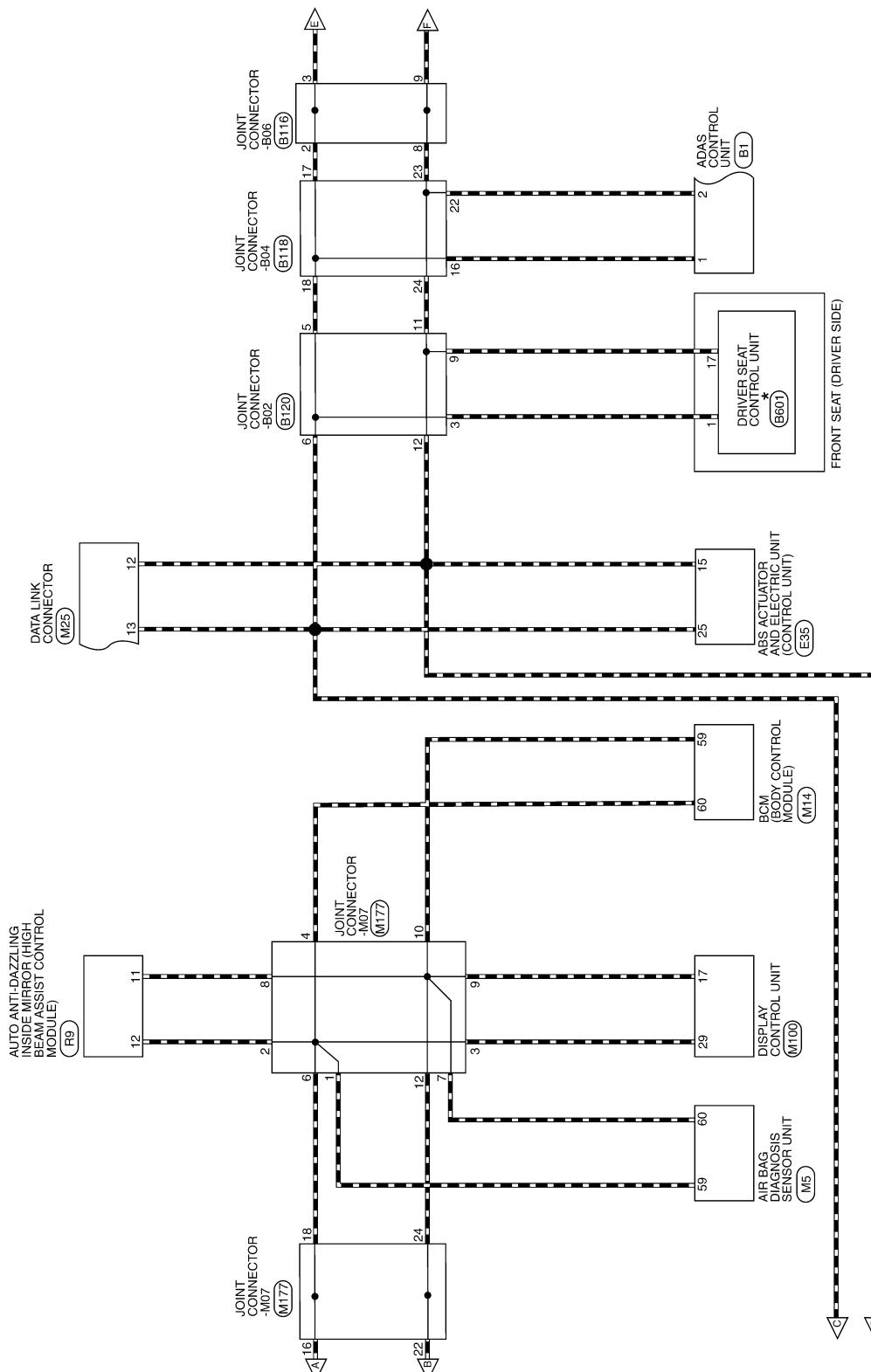
\* : This connector is not shown in "Harness Layout".

2016/02/15

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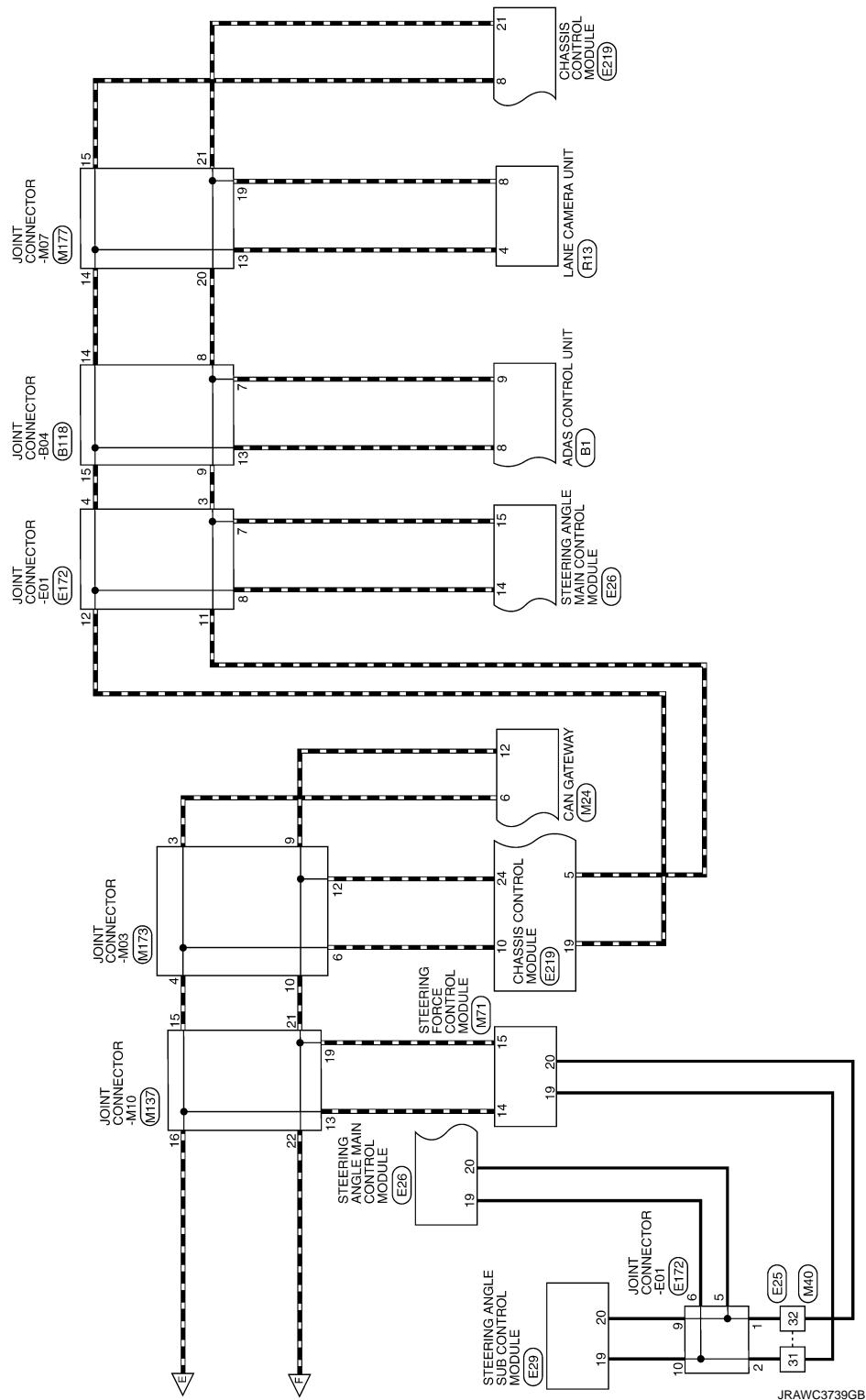
# CONSULT/GST CHECKING SYSTEM

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# CONSULT/GST CHECKING SYSTEM

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## CONSULT CHECKING SYSTEM (VR ENGINE WITH DIRECT ADAPTIVE STEERING SYSTEM WITHOUT FEB)

Connector No.	B1	Wire	Signal Name [Specification]	Color Of Wire	Terminal No.	Signal Name [Specification]	Color Of Wire	Terminal No.	Wire	Signal Name [Specification]	Color Of Wire
Connector Name	AUDAS CONTROL UNIT	3	- [With VR30 engine and without BOSE system]	W	36	- [With 2.0L turbo gasoline engine]	W	76	V	- [With 2.0L turbo gasoline engine]	-
Connector Type	TH247FW-NH	4	SHIELD	- [With VR30 engine]	37	P	- [With 2.0L turbo gasoline engine and without BOSE system]	77	P	-	-
		4	Y	- [With VR30 engine]	37	R	- [With VR30 engine]	78	L	-	-
		5	G	- [With VR30 engine]	37	W	- [With 2.0L turbo gasoline engine and with BOSE system]	79	R	-	-
		5	V	- [With VR30 engine]	38	W	- [With 2.0L turbo gasoline engine and with BOSE system]	80	GR	- [With 2.0L turbo gasoline engine]	-
		6	BR	- [With VR30 engine]	39	P	- [With VR30 engine and without BOSE system]	80	W	- [With VR30 engine]	-
		6	BR	- [With 2.0L turbo gasoline engine]	39	R	- [With 2.0L turbo gasoline engine and without BOSE system]	81	R	- [With VR30 engine]	-
		7	B	- [With 2.0L turbo gasoline engine and with BOSE system]	39	W	- [With VR30 engine and with BOSE system]	81	R	- [With 2.0L turbo gasoline engine]	-
		7	B	- [With VR30 engine and with BOSE system]	40	G	- [With VR30 engine]	82	G	- [With 2.0L turbo gasoline engine]	-
		7	W	- [With VR30 engine and with BOSE system]	41	L	-	82	SHIELD	- [With VR30 engine]	-
		7	Y	- [With VR30 engine and with BOSE system]	42	R	-	82	SHIELD	- [With 2.0L turbo gasoline engine]	-
		8	G	- [With VR30 engine and with BOSE system]	43	SHIELD	-	83	W	- [With VR30 engine]	-
		8	G	- [With VR30 engine and with BOSE system]	44	P	-	83	W	- [With VR30 engine]	-
		8	Y	- [With VR30 engine and without BOSE system]	45	B	- [With 2.0L turbo gasoline engine]	84	BR	- [With VR30 engine]	-
		9	LG	- [With VR30 engine]	45	G	- [With 2.0L turbo gasoline engine]	84	SHIELD	- [With VR30 engine]	-
		9	SHIELD	- [With VR30 engine]	46	SHIELD	-	85	BG	- [With VR30 engine]	-
		10	V	-	47	G	- [With 2.0L turbo gasoline engine]	85	G	- [With VR30 engine]	-
		11	GR	-	48	BG	-	86	R	- [With VR30 engine]	-
		12	Y	-	49	BR	-	86	W	- [With VR30 engine]	-
		13	R	-	50	V	-	87	LG	- [With VR30 engine]	-
		14	BR	-	51	GR	-	87	SHIELD	- [With 2.0L turbo gasoline engine]	-
		15	BG	- [With 2.0L turbo gasoline engine]	52	W	- [With 2.0L turbo gasoline engine]	89	IG	-	-
		15	GR	- [With VR30 engine]	52	Y	- [With VR30 engine]	90	P	- [With 2.0L turbo gasoline engine]	-
		16	V	-	53	R	-	90	V	- [With VR30 engine]	-
		17	P	-	54	GR	-	92	L	- [With VR30 engine]	-
		18	L	-	55	L	-	92	W	- [With VR30 engine]	-
		19	R	-	56	V	-	93	R	- [With VR30 engine]	-
		20	GR	-	57	R	-	93	SHIELD	- [With 2.0L turbo gasoline engine]	-
		21	R	-	58	LG	-	94	R	-	-
		22	V	-	59	P	-	95	L	- [With 2.0L turbo gasoline engine]	-
		23	W	-	61	L	-	95	Y	- [With VR30 engine]	-
		24	BG	- [With 2.0L turbo gasoline engine]	62	P	- [With VR30 engine]	96	R	- [With 2.0L turbo gasoline engine]	-
		24	V	- [With VR30 engine]	62	V	- [With 2.0L turbo gasoline engine]	96	W	- [With VR30 engine]	-
		25	L	- [With 2.0L turbo gasoline engine]	63	L	-	97	W	- [With VR30 engine and with BOSE system]	-
		25	BR	- [With VR30 engine]	64	W	-	97	R	- [With 2.0L turbo gasoline engine and with BOSE system]	-
		26	G	- [With VR30 engine]	66	LG	-	98	LG	-	-
		26	W	- [With VR30 engine]	68	L	-	99	BR	- [With VR30 engine and with BOSE system]	-
		27	R	-	69	P	-	99	P	- [With 2.0L turbo gasoline engine]	-
		29	LG	- [With VR30 engine]	71	GR	- [With 2.0L turbo gasoline engine]	99	Y	- [With VR30 engine and without BOSE system]	-
		30	LG	- [With VR30 engine]	71	R	- [With VR30 engine]	100	BR	- [With VR30 engine and without BOSE system]	-
		30	P	- [With VR30 engine]	72	G	- [With VR30 engine]	100	W	- [With VR30 engine]	-
		31	SHIELD	-	72	Y	- [With 2.0L turbo gasoline engine]	100	W	- [With VR30 engine]	-
		32	I	-	73	R	- [With 2.0L turbo gasoline engine]	100	W	- [With VR30 engine]	-
		33	B	- [With VR30 engine]	73	SHIELD	- [With VR30 engine]	100	W	- [With VR30 engine]	-
		33	LG	- [With 2.0L turbo gasoline engine]	74	BR	- [With 2.0L turbo gasoline engine]	100	W	- [With VR30 engine]	-
		2	L	- [With VR30 engine and with BOSE system]	74	L	- [With VR30 engine]	100	W	- [With VR30 engine]	-
		2	SHIELD	-	75	GR	- [With 2.0L turbo gasoline engine]	100	W	- [With VR30 engine]	-
		3	BR	- [With 2.0L turbo gasoline engine]	75	V	- [With VR30 engine]	100	W	- [With VR30 engine]	-
		3	R	- [With VR30 engine and with BOSE system]	76	GR	- [With VR30 engine]	100	W	- [With VR30 engine]	-

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# **CONSULT/GST CHECKING SYSTEM**

## < BASIC INSPECTION >

**CONSULT CHECKING SYSTEM (VR ENGINE WITH DIRECT ADAPTIVE STEERING SYSTEM WITHOUT FEB)**

Connector No.	B63
Connector Name	OCCUPANT DETECTION SYSTEM CONTROL UNIT
Connector Type	TH08PW-NH



13	SHIELD	-	-
14	SHIELD	-	-
15	B	- [With 2.0L turbo gasoline engine]	-
15	SHIELD	- [With V38 engine]	-
16	L	- [With V38 engine]	-
16	SHIELD	- [With 2.0L turbo gasoline engine]	-
17	L	- [With V38 engine]	-
17	SHIELD	- [With 2.0L turbo gasoline engine]	-
18	L	- [With V38 engine]	-
18	SHIELD	- [With 2.0L turbo gasoline engine]	-
19	L	- [With 2.0L turbo gasoline engine]	-
19	SHIELD	- [With V38 engine]	-
20	L	- [With 2.0L turbo gasoline engine]	-
20	SHIELD	- [With V38 engine]	-
21	L	-	-
22	P	-	-
23	P	-	-
24	P	- [With V38 engine]	-
24	V	- [With 2.0L turbo gasoline engine]	-



Connector No.	BL16
Connector Name	JOINT CONNECTOR B06
Connector Type	24342_4GDA
	 HS

Color Of terminal		Signal Name [Specification]	
No.	Wire	Terminal No.	Color Of Wire
1	L	1	LG
2	L	1	- [With VR3Q engine]
3	L	1	- [With ZD1 turbo gasoline engine]
4	L	2	LG
5	L	2	- [With VR3Q engine]
6	L	3	SHIELD
7	R	4	LG
8	R	4	- [With ZD1 turbo gasoline engine]
9	V	5	SHIELD
9	V	5	- [With ZD1 turbo gasoline engine]
10	R	6	LG
10	R	6	- [With VR3Q engine]
11	V	7	R
11	V	7	- [Color of wire differs depending on production]
12	P	8	LG
12	P	8	- [With ZD1 Turbo gasoline engine]



Connector No.	B120
Connector Name	JOINT CONNECTOR-B12



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	JG	-With 2.0L turbo gasoline engine]
11	SHIELD	-With VR30 engine]
12	LG	-With 2.0L turbo gasoline engine[re]
12	SHIELD	-With VR30 engine]
13	L	-With VR30 engine
13	P	-With 2.0L turbo gasoline engine and without gateway]
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[re]
21	SHIELD	-With VR30 engine]
22	R	-
23	R	-



4	L	-	-	(With VR3B 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 VR3B engine)
10	L	-	-	(With 2.0L turbo gasoline engine)
10	R	-	-	(With VR3D engine)
11	R	-	-	
12	R	-	-	
13	W	-	-	
14	W	-	-	
15	W	-	-	
17	SHIELD	-	-	
18	B	-	-	
19	B	-	-	(With 2.0L turbo gasoline engine)
19	GR	-	-	(With VR3B engine)
20	GR	-	-	(With VR3B engine)
20	SHIELD	-	-	(With 2.0L turbo gasoline engine)
21	B	-	-	(With 2.0L turbo gasoline engine)
21	GR	-	-	(With VR3D engine)
22	W	-	-	
23	W	-	-	
24	W	-	-	



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	CANH
2	BR	JARII (D/RX)
3	R	START SW
4	P	PULSE RECEIVER
5	V	PULSE (TELESCOPIC)
6	GR	ADDRESS 2
7	G	IND 2



# CONSULT/GST CHECKING SYSTEM

**< BASIC INSPECTION >**

## CONSULT CHECKING SYSTEM (VR ENGINE WITH DIRECT ADAPTIVE STEERING SYSTEM WITHOUT FEB)

Terminal	Color Of Wire	Signal Name [Specification]	Connector No.	Connector Name
9	W	RECLINER SW [BACKWARD]	16	Y - (With VR30 engine)
10	O	TILT SW [DOWNWARD]	17	BR - (With 2.0L turbo gasoline engine)
11	G	LIFTER SW [DOWNWARD]	17	GR - (With 2.0L VR30 engine)
12	S8	POWER SUPPLY [ENCODER]	18	G - (With 2.0L VR30 engine)
13	P	CAN-L	18	P - (With VR30 engine)
14	LG	PULSE [SIDE SENSOR]	19	Y - (With 2.0L VR30 engine)
15	W	PULSE [SIDE SENSOR FRONT]	31	W - (With 2.0L VR30 engine)
16	GY	PULSE [LIFTER REAR]	31	Y - (With 2.0L VR30 engine)
20	SB	PULSE [LIFTER REAR]	32	G - (With 2.0L VR30 engine)
21	SB	PULSE/TILT SENSOR	32	GR - (With VR30 engine)
22	O	ADDRESS 1	32	GR - (With VR30 engine)
23	W	IND 1	33	L - (With VR30 engine)
24	P	SIDE SW [FORWARD]	33	Y - (With 2.0L VR30 engine)
25	Y	RECLINER SW [FORWARD]	34	P - (With VR30 engine)
26	GY	TILT SW [UPWARD]	35	GR - (With VR30 engine)
27	L	LIFTER SW [UPWARD]	36	R - (With VR30 engine)
28	Y	SEAT SW	37	L - (With 2.0L VR30 engine)
			37	V - (With VR30 engine)
			38	L - (With VR30 engine)
			38	P - (With 2.0L VR30 engine)
			39	R - (With 2.0L VR30 engine)
			39	Y - (With VR30 engine)
			40	SB - (With VR30 engine)
			41	LG - (With VR30 engine)
			44	L - (With 2.0L VR30 engine)
			45	Y - (With 2.0L VR30 engine)
			45	W - (With VR30 engine)
			46	B - (With VR30 engine)
			46	Y - (With 2.0L VR30 engine)
			47	G - (With VR30 engine)
			48	SHELD
			49	R - (With VR30 engine)
			6	V - (With VR30 engine)
			7	L - (With VR30 engine)
			8	BG - (With VR30 engine)
			8	BR - (With 2.0L VR30 engine)
			9	B - (With 2.0L VR30 engine)
			9	GR - (With VR30 engine)
			9	LG - (With VR30 engine)
			10	BR - (With VR30 engine)
			11	L - (With VR30 engine)
			12	GR - (With VR30 engine)
			12	P - (With 2.0L VR30 engine)
			13	SHELD
			13	W - (With 2.0L VR30 engine)
			14	B - (With VR30 engine)
			15	GR - (With 2.0L VR30 engine)
			15	SB - (With 2.0L VR30 engine)
			16	BR - (With 2.0L VR30 engine)
			64	Y - (With 2.0L VR30 engine)

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# **CONSULT/GST CHECKING SYSTEM**

## < BASIC INSPECTION >

**CONSULT CHECKING SYSTEM (VR ENGINE WITH DIRECT ADAPTIVE STEERING SYSTEM WITHOUT FEB)**

Terminal	Color Of Wire	Signal Name [Specification]	Signal Name [Specification]
No.	No.		
2	S	STEERING ANGLE SUB MOTOR RESOVER SIGNAL (S1, S3)	
4	G	STEERING ANGLE SUB MOTOR RESOVER SIGNAL (S2, S4)	
5	L	STEERING ANGLE SUB MOTOR RESOVER SIGNAL (S3, S4)	CAN H
6	W	STEERING ANGLE SUB MOTOR RESOVER SIGNAL (S2, S4)	VACUUM SENSOR POWER SUPPLY
10	R	STEERING ANGLE SUB MOTOR RESOVER SIGNAL (R1, R2)	VDC OFF SW SIGNAL
11	BR	STEERING ANGLE SUB MOTOR RESOVER SIGNAL (R1, R2)	VACUUM SENSOR GROUND
18	Y	FR LH WHEEL SENSOR LOWER JUNCTION (With 2.0L turbo gasoline engine)	IGN
19	Sb	FR LH WHEEL SENSOR SIGNAL	
20	BG	FR LH WHEEL SENSOR POWER SUPPLY	
25	L		
28	G		
30	R		
34	G		
36	Sb	MOTOR BATTERY	[With 1.6D engine]
36	W	STOP LAMP SW SIGNAL (With ADAS)	- [With 2.0L turbo gasoline engine]
37	GR	STOP LAMP SW SIGNAL (With ASCO)	
38	BR	RRI LH WHEEL SENSOR SIGNAL	
41	GR	RRI LH WHEEL SENSOR POWER SUPPLY	
43	V	FR RH WHEEL SENSOR SIGNAL	
10	GR	FR RH WHEEL SENSOR POWER SUPPLY	
13	R	VACUUM SENSOR SIGNAL	
15	P	CAN-L (Without Gateway)	
15	R	BR RH WHEEL SENSOR SIGNAL	
17	Y		
18	Y	BR RH WHEEL SENSOR LOWER JUNCTION (With 2.0L turbo gasoline engine)	
19	Sb	BR RH WHEEL SENSOR SIGNAL	
20	BG	BR RH WHEEL SENSOR POWER SUPPLY	
25	L		
28	G		
30	R		
34	G		
36	Sb	JOINT CONNECTOR-01	
37	GR	JOINT CONNECTOR Type	\$GA25FLB8RJ
38	BR		
41	GR		
43	V		

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# **CONSULT/GST CHECKING SYSTEM**

## **< BASIC INSPECTION >**

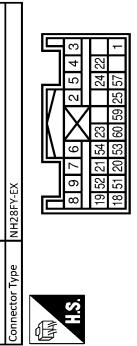


**CONSULT CHECKING SYSTEM (VR ENGINE WITH DIRECT ADAPTIVE STEERING SYSTEM WITHOUT FEB)**

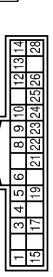
Connector No.	M14
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



9	-	STARTER RELAY
10	-	GROUND



Connector No.	F2
Connector Name	A/T ASSEMBLY
Connector Type	RK10FG-DGY



Terminal No.	Color Of Wire	Signal Name [Specification]
48	R	PUSH-BTN IGN SW/L DMR
52	G	DONGLE LNK
54	V	COMMA LINE
55	R	RAIN SENSOR
59	p	CAN-L
60	L	CAN-H
61	G	REAR WINDOW DEF.RLY/CONT
62	R	STARTERLY/CONT
64	V	LKEY WARM BLAZER
65	B	OUTS/AD LAME/CONT
66	B	BLOWER FAN RL/CONT [With PBD engine]
66	Y	BLOWER FAN RL/CONT [Without PBD engine]
67	W/B	IGN RLY/FP/BL/CONT
68	R	DIMMER
69	GR	AUT SHIFT SELECT PMR SPY
70	B	IGN RLY/FP/BL/CONT
71	G	DR DOOR RQ/BL/RW
72	SB	PASS DOOR RQ/BL/RW
73	BR	COMB SW INPUT 5
76	BG	COMB SW INPUT 4
77	V	COMB SW INPUT 3
78	Y	COMB SW INPUT 2
79	LG	COMB SW INPUT 1
80	L	TR ID/OPEN SW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	IENI
2	B	GND
3	Y/R	DR1(+)
4	Y/B	DR1(-)
5	Y	DR2(+)
6	Y/R	AS1(+)
7	Y/B	AS1(-)
8	Y/G	AS2(+)
9	Y	AS2(-)
18	Y	EG2S+
19	BR	EG2S-
20	VR	ACT-VENT+
21	Y/B	ACT-VENT-
22	SHIELD	GND
23	V	AIRBG/WL
24	G	-
25	GR	AIR GFG IND
51	G	SATELLITE HT (A)
52	R	SIDE SENS. R/L2
53	V	SIDE SENS. R/L2*



No.	Color Of Wire	Signal Name [Specification]
1	GR	IGNITION POWER SUPPLY (With 2.0L turbo gasoline engine)
1	L	IGNITION POWER SUPPLY (With VR6 engine)
2	P	BATTERY POWER SUPPLY [MEMORY BACK-UP]
3	L	CAN-H
4	R	K-LINE
5	BR	GROUND (With 2.0L turbo gasoline engine)
5	BR	GROUND (With VR6 engine)
6	GR	IGNITION POWER SUPPLY
7	IG	BACK-UP AMP RELAY
8	P	CAN-L
9	V	STARTER RELAY
10	BR	GROUND

Connector No.	F100
Connector Name	TCM
Connector Type	SP10FG



Terminal No.	Color Of Wire	Signal Name [Specification]
1	-	IGNITION POWER SUPPLY
2	-	BATTERY POWER SUPPLY(MEMORY BACK-UP)
3	-	CAN-H
4	-	K-LINE
5	-	GROUND
6	-	IGNITION POWER SUPPLY
7	-	BACK-UP LAMP RELAY
8	-	CAN-L

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# CONSULT/GST CHECKING SYSTEM

**< BASIC INSPECTION >**

## CONSULT CHECKING SYSTEM (VR ENGINE WITH DIRECT ADAPTIVE STEERING SYSTEM WITHOUT FEB)

Connector No.		Signal Name [Specification]		Terminal No.		Color Of Wire		Signal Name [Specification]		Terminal No.		Color Of Wire		Signal Name [Specification]	
M22	WIRE TO WIRE	25	S8	66	R	-	-	99	P	-	-	-	-	(With VR30 engine)	(With VR30 engine and without BOSE system)
		26	G	68	L	-	-	99	Y	-	-	-	-	(With VR30 engine)	(With VR30 engine and without BOSE system)
		26	W	69	P	-	-	100	BR	-	-	-	-	(With VR30 engine)	(With VR30 engine and without BOSE system)
		27	R	71	GR	-	-	100	W	-	-	-	-	(With VR30 engine)	(With VR30 engine and without BOSE system)
		29	G	71	R	-	-	-	-	-	-	-	-	(With VR30 engine)	(With VR30 engine)
		30	S8	72	G	-	-	-	-	-	-	-	-	(With VR30 engine)	(With VR30 engine)
		31	W	72	V	-	-	-	-	-	-	-	-	(With VR30 engine)	(With VR30 engine)
		32	L	73	LG	-	-	-	-	-	-	-	-	(With VR30 engine)	(With VR30 engine)
		33	B	74	L	-	-	-	-	-	-	-	-	(With VR30 engine)	(With VR30 engine)
		33	LG	74	LG	-	-	-	-	-	-	-	-	(With VR30 engine)	(With VR30 engine)
		34	SHEILD	75	P	-	-	-	-	-	-	-	-	(With VR30 engine)	(With VR30 engine)
		35	LG	76	SB	-	-	-	-	-	-	-	-	(With VR30 engine)	(With VR30 engine)
		36	R	76	V	-	-	-	-	-	-	-	-	(With VR30 engine)	(With VR30 engine)
		36	V	77	Y	-	-	-	-	-	-	-	-	(With VR30 engine)	(With VR30 engine)
		37	U	78	L	-	-	-	-	-	-	-	-	(With VR30 engine)	(With VR30 engine)
		37	R	79	G	-	-	-	-	-	-	-	-	(With VR30 engine)	(With VR30 engine)
		37	V	80	GR	-	-	-	-	-	-	-	-	(With VR30 engine)	(With VR30 engine)
		38	W	80	W	-	-	-	-	-	-	-	-	(With VR30 engine)	(With VR30 engine)
		39	P	81	B	-	-	-	-	-	-	-	-	(With VR30 engine)	(With VR30 engine)
		39	R	81	R	-	-	-	-	-	-	-	-	(With VR30 engine)	(With VR30 engine)
		39	V	82	G	-	-	-	-	-	-	-	-	(With VR30 engine)	(With VR30 engine)
		40	G	82	SHEILD	-	-	-	-	-	-	-	-	(With VR30 engine)	(With VR30 engine)
		41	L	83	R	-	-	-	-	-	-	-	-	(With VR30 engine)	(With VR30 engine)
		42	R	83	BR	-	-	-	-	-	-	-	-	(With VR30 engine)	(With VR30 engine)
		43	SHEILD	84	BR	-	-	-	-	-	-	-	-	(With VR30 engine)	(With VR30 engine)
		44	P	84	SHEILD	-	-	-	-	-	-	-	-	(With VR30 engine)	(With VR30 engine)
		45	B	85	BR	-	-	-	-	-	-	-	-	(With VR30 engine)	(With VR30 engine)
		45	G	85	G	-	-	-	-	-	-	-	-	(With VR30 engine)	(With VR30 engine)
		46	SHEILD	86	R	-	-	-	-	-	-	-	-	(With VR30 engine)	(With VR30 engine)
		47	G	87	LG	-	-	-	-	-	-	-	-	(With VR30 engine)	(With VR30 engine)
		48	BG	87	SHEILD	-	-	-	-	-	-	-	-	(With VR30 engine)	(With VR30 engine)
		49	G	89	BR	-	-	-	-	-	-	-	-	(With VR30 engine)	(With VR30 engine)
		50	V	90	SB	-	-	-	-	-	-	-	-	(With VR30 engine)	(With VR30 engine)
		51	V	90	SB	-	-	-	-	-	-	-	-	(With VR30 engine)	(With VR30 engine)
		52	L	95	L	-	-	-	-	-	-	-	-	(With VR30 engine)	(With VR30 engine)
		52	Y	95	Y	-	-	-	-	-	-	-	-	(With VR30 engine)	(With VR30 engine)
		53	R	96	L	-	-	-	-	-	-	-	-	(With VR30 engine)	(With VR30 engine)
		54	GR	96	W	-	-	-	-	-	-	-	-	(With VR30 engine)	(With VR30 engine)
		55	L	97	R	-	-	-	-	-	-	-	-	(With VR30 engine)	(With VR30 engine)
		56	P	97	R	-	-	-	-	-	-	-	-	(With VR30 engine)	(With VR30 engine)
		57	R	98	BR	-	-	-	-	-	-	-	-	(With VR30 engine)	(With VR30 engine)
		58	LG	98	BR	-	-	-	-	-	-	-	-	(With VR30 engine)	(With VR30 engine)
		59	SB	99	BR	-	-	-	-	-	-	-	-	(With VR30 engine)	(With VR30 engine)
		61	V	99	BR	-	-	-	-	-	-	-	-	(With VR30 engine)	(With VR30 engine)
		62	P	99	BR	-	-	-	-	-	-	-	-	(With VR30 engine)	(With VR30 engine)
		62	V	99	BR	-	-	-	-	-	-	-	-	(With VR30 engine)	(With VR30 engine)
		63	L	99	BR	-	-	-	-	-	-	-	-	(With VR30 engine and with BOSE system)	(With VR30 engine and with BOSE system)
		64	W	99	BR	-	-	-	-	-	-	-	-	(With VR30 engine and with BOSE system)	(With VR30 engine and with BOSE system)

JRAWC3745GB

# CONSULT/GST CHECKING SYSTEM

**< BASIC INSPECTION >**

## CONSULT CHECKING SYSTEM (VR ENGINE WITH DIRECT ADAPTIVE STEERING SYSTEM WITHOUT FEB)

Connector No.	Wire	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]
6	L	KLINE [With 2.0L turbo gasoline engine]	32	V	- [With VR30 engine]
7	V	KLINE [With 2.0L turbo gasoline engine]	33	L	- [With VR30 engine]
8	W	KLINE [With VR30 engine]	33	P	- [With 2.0L turbo gasoline engine]
11	SB	IGN_SW	34	R	- [With VR30 engine]
12	R	M_CAN_H	35	G	- [With VR30 engine]
13	L	CAN_L	36	B	- [With VR30 engine]
14	P	CAN_H	37	L	- [With VR30 engine]
16	W	POWER	38	I	- [With 2.0L turbo gasoline engine]
			38	P	[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	- [With VR30 engine]
			41	L	-
			44	BR	- [With 2.0L turbo gasoline engine]
			45	L	- [With VR30 engine]
			45	W	- [With 2.0L turbo gasoline engine]
			46	G	- [With VR30 engine]
			46	Y	- [With 2.0L turbo gasoline engine]
			47	BG	- [With VR30 engine]
			47	R	- [With VR30 engine]
			48	SHIELD	-
			49	B	- [With VR30 engine]
			49	G	- [With 2.0L turbo gasoline engine]
			50	W/B	- [With 2.0L turbo gasoline engine]
			51	L	-
			52	W	-
			52	RG	- [With VR30 engine]
			53	G	- [With 2.0L turbo gasoline engine]
			54	SB	- [With VR30 engine]
			54	Y	- [With 2.0L turbo gasoline engine]
			55	B	- [With 2.0L turbo gasoline engine]
			55	P	- [With VR30 engine]
			56	BG	- [With VR30 engine]
			56	GR	- [With 2.0L turbo gasoline engine]
			57	GR	- [With VR30 engine]
			57	P	- [With 2.0L turbo gasoline engine]
			58	B	- [With 2.0L turbo gasoline engine]
			59	SB	-
			61	W/B	-
			64	Y	-
			65	R	- [With VR30 engine]
			66	P	[Color of wire differs depending on production]
			66	V	- [Color of wire differs depending on production]
			67	LG	- [With VR30 engine]
			68	W/B	- [With 2.0L turbo gasoline engine]
			69	L	-
			70	R	-
			71	V	- [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]
			75	B	- [With VR30 engine]
			75	P	[With 2.0L turbo gasoline engine and without gateway]
			76	W/B	[With 2.0L turbo gasoline engine and with gateway]
			77	SB	-
			78	G	- [With VR30 engine]
			78	LG	- [With 2.0L turbo gasoline engine]
			79	R	-
			80	G	-
			81	R	-
			82	LG	-
			83	BR	- [With 2.0L turbo gasoline engine]
			83	R	- [With VR30 engine]
			84	V	-
			85	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	Y	-
			99	BR	- [With VR30 engine]
			99	LG	- [With 2.0L turbo gasoline engine]
			100	SHIELD	-
			2	Y	STEERING FORCE MOTOR RESOLVER SIGNAL (S1-33)
			4	W	STEERING FORCE MOTOR RESOLVER SIGNAL (S1-33)
			5	G	STEERING FORCE MOTOR RESOLVER SIGNAL (S2-34)
			6	L	STEERING FORCE MOTOR RESOLVER SIGNAL (S2-34)
			10	B	STEERING FORCE MOTOR RESOLVER SIGNAL (R1-12)
			11	R	STEERING FORCE MOTOR RESOLVER SIGNAL (R1-12)
			14	L	CAN COMMUNICATION-H
			15	P	CAN COMMUNICATION-L (Without Gateway)
			15	R	CAN COMMUNICATION-N-L (With Gateway)

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# **CONSULT/GST CHECKING SYSTEM**

## < BASIC INSPECTION >

CONSULT CHECKING SYSTEM (VR ENGINE WITH DIRECT ADAPTIVE STEERING SYSTEM WITHOUT FEB)

Terminal No.	Signal Name [Specification]	Color Of Wire	Terminal No.	Signal Name [Specification]	Color Of Wire
37	B	GROUND	10C	V	-
38	B	IONIZER ON/OFF CONTROL SIGNAL	12C	L	-
40	BG	ECV CONTROL SIGNAL	13C	L	-
22	BR	CAN WAKE UP	14C	Y	-
24	R	BACK UP SIGNAL (TO STEERING COLUMN CONTROL MODULE)	15C	R	-
25	W	[IGNITION] POWER SUPPLY	16C	R	-
26	R/W	STEERING CLUTCH +	17C	L	-
27	W/B	[STEERING CLUTCH] POWER SUPPLY TO STEERING COLUMN CONTROL MODULE	18C	BG	- [Without DRPO]
28	R	STEERING CLUTCH -	19C	B	- [With DRPO]
29	R	FORCE MOTOR TEMPERATURE SENSOR -	1C	R	-
30	B	GROUND	20C	W	-
31	R	FORCE MOTOR TEMPERATURE SENSOR -	21C	L	-
32	B	GROUND	26	28	29
			17	30	31
			16	22	33
			1	1	1
			1	1	1

Connector No. M88

Connector No.	N188	Terminal No.	Color Of Wire	Signal Name [Specification]
Connector Name	AC/AUTO AMP.	16	LG	AV COMM (L)
Connector Type	I/H40EW/NH	17	P	CAN-L
		19	R	DIMMER SIGNAL
		20	BR	REVERSE SIGNAL
		22	B	GND
		26	BR	CAMERA SWITCH SIGNAL
		28	SB	AV COMM (H)
		29	L	CAN-H
		30	R	IGN [For VR33 engine]
		30	W	IGN [For 2.0L turbo gasoline engine]
		31	V	VEHICLE SIGNAL GND
		33	SB	ACC Except for VR33 engine and with ISS
		33	V	ACC For VR33 engine and with ISS
		34		BAT

AMBIENT SENSOR SIGNAL  
SLIN LOAD SENSOR SIGNAL

7	G	AMBENT SENSOR SIGNAL	Connector No.	M133	Connector No.	M171
9	R	SUNLOAD SENSOR SIGNAL	Connector Name	FUSE BLOCK (J/B)	Connector Name	JOINT CONNECTOR M01
13	SB	AC/C POWER SUPPLY (With VR30 engine)	Connector Type	TH40FW-NH	Connector Type	24342-4GADA
13	V	AC/C POWER SUPPLY (With VR30 engine)				
16	P	LIN SIGNAL				
17	R	DOOR MOTOR POWER SUPPLY				
18		BLOWER MOTOR CONTROL SIGNAL				
20	L	HEATED STEERING WHEEL RELAY CONTROL SIGNAL				
21	B	CAN-H				
22	B	GROUND				
23	R	KANTON POWER SUPPLY (With VR30 engine) and with 155				
23	W	LIGHTING POWER SUPPLY (Except with VR30 engine and with 155)				
26	B	SENSOR GROUND				
27	LG	IN VEHICLE SENSOR SIGNAL				
28	BR	INTAKE SENSOR SIGNAL				
30	BG	EXHAUST GAS / OUTSIDE ODO BOTTING SENSOR SIGNAL				

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# CONSULT/GST CHECKING SYSTEM

**< BASIC INSPECTION >**

## CONSULT CHECKING SYSTEM (VR ENGINE WITH DIRECT ADAPTIVE STEERING SYSTEM WITHOUT FEB)

Terminal No.	Wire Color	Signal Name [Specification]	Terminal No.	Wire Color	Signal Name [Specification]
1	B	-	6	L	-
2	B	-	7	R	-
3	B	-	8	R	-
4	B	-	9	R	-
5	B	-	10	R	-
6	B	-	11	R	-
7	B	-	12	R	-
8	B	-	13	SB	-
9	B	-	14	SB	-
10	G	-	15	SB	-
11	G	-	16	SB	- [With VR30 engine]
14	B	-	16	SB	- [With 2.0L turbo gasoline engine]
15	B	-	17	SB	- [With 2.0L turbo gasoline engine]
16	Y	- [With VR30 engine]	17	SB	- [With VR30 engine]
17	SB	- [With VR30 engine]	18	SB	- [With 2.0L turbo gasoline engine]
18	SB	- [With VR30 engine]	18	SB	- [With VR30 engine]
19	Y	- [With 2.0L turbo gasoline engine]	19	BR	- [With VR30 engine and with ISS]
20	SB	- [With VR30 engine]	19	LG	- [With VR30 engine and with ISS]
21	SB	- [With VR30 engine]	20	BR	- [With VR30 engine and with ISS]
22	G	-	20	LG	- [With VR30 engine and with ISS]
22	LG	- [With VR30 engine]	22	SB	- [With VR30 engine and without ISS]
22	SB	- [With VR30 engine]	22	V	- [With VR30 engine and with ISS]
23	LG	- [With VR30 engine]	23	R	- [With 2.0L turbo gasoline engine]
23	SB	- [With VR30 engine]	23	S9	- [With VR30 engine and without ISS]
24	SB	- [With VR30 engine]	23	V	- [With VR30 engine and with ISS]
24	LG	- [With VR30 engine]	24	R	- [With 2.0L turbo gasoline engine]
24	SB	- [With VR30 engine and without ISS]	24	SB	- [With VR30 engine and with ISS]
24	V	- [With VR30 engine and with ISS]	24	V	- [With VR30 engine and without ISS]

Connector No.	Joint Connector M05	Connector Name	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]	Terminal No.	Color Of Wire	Signal Name [Specification]
M173	JOINT CONNECTOR M03	Connector Type: NH20F-4G2A	 H.S.	1	L	-	1	L	-
		Connector Type: NH20F-DC		2	L	-	2	L	-
		Connector Type: NH20F-NH	 H.S.	3	L	-	3	L	-
		Connector Type: TH02F-NH		4	L	-	4	L	-
		Connector Type: TH02F-NH	 H.S.	5	L	-	5	L	-
		Connector Type: TH02F-NH		6	L	-	6	L	-
		Connector Type: TH02F-NH		7	P	-	7	P	-
		Connector Type: TH02F-NH		8	P	-	8	P	-
		Connector Type: TH02F-NH		9	P	-	9	P	-
		Connector Type: TH02F-NH		10	P	-	10	P	-
		Connector Type: TH02F-NH		11	P	-	11	P	-
		Connector Type: TH02F-NH		12	P	-	12	P	-
		Connector Type: TH02F-NH		13	L	-	13	L	-
		Connector Type: TH02F-NH		14	L	-	14	L	-
		Connector Type: TH02F-NH		15	L	-	15	L	-

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# CONSULT/GST CHECKING SYSTEM

< BASIC INSPECTION >

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CONSULT CHECKING SYSTEM (VR ENGINE WITH DIRECT ADAPTIVE STEERING SYSTEM WITHOUT FEB)

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	CANL GND
4	L	CANH GND
5	B	GND
7	V	IGN
8	W	CAN L

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# INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

## INSPECTION AND ADJUSTMENT

### ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

### ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Required Procedure After Battery Disconnection

INFOID:000000012794385

GI

B

C

D

E

F

G

H

I

J

K

L

M

N

O

P

SYSTEM	ITEM	REFERENCE
Automatic air conditioning system	Temperature setting trimmer	<a href="#">HAC-79, "Temperature Setting Trimmer"</a>
	Inlet port memory function (REC)	<a href="#">HAC-79, "Inlet Port Memory Function (REC)"</a>
	Inlet port memory function (FRE)	<a href="#">HAC-80, "Inlet Port Memory Function (FRE)"</a>
	Foot position setting trimmer	<a href="#">HAC-80, "Foot Position Setting Trimmer"</a>
	Setting of target evaporator temperature upper limit value	<a href="#">HAC-80, "Setting of Target Evaporator Temperature Upper Limit Value"</a>
	Exhaust gas/outside odor detecting gas sensor sensitivity adjustment function	<a href="#">HAC-81, "Exhaust Gas/outside Odor Detecting Sensor Sensitivity Adjustment Function"</a>
	Auto intake switch interlocking movement change	<a href="#">HAC-81, "Auto Intake Switch Interlocking Movement Change Function"</a>
Automatic drive positioner	Automatic drive positioner system	<a href="#">ADP-66, "Description"</a>
Power window control	Power window control system	<a href="#">PWC-40, "Description"</a>
Sunroof system	Sunroof system	—
Sunshade system*	Sunshade system	—
Rear view monitor	Rear view monitor predictive course line center position adjustment	—
Around view monitor*	Predictive course line center position adjustment	—
Automatic back door system	Automatic back door system	—
Engine oil level read*	Engine oil level read	—

\*: Not equipped.