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### **HOW TO USE THIS MANUAL**

< HOW TO USE THIS MANUAL >

# HOW TO USE THIS MANUAL

### HOW TO USE THIS MANUAL

Description INFOID:0000000006237692

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

Terms INFOID:0000000006237693

 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.

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

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

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

Standard value: Tolerance at inspection and adjustment.

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

Units INFOID:0000000006237694

• 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.

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

"Example"

Range

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

Standard

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

Contents INFOID:0000000006237695

• A QUICK REFERENCE INDEX, a black tab (e.g. Ex) ) 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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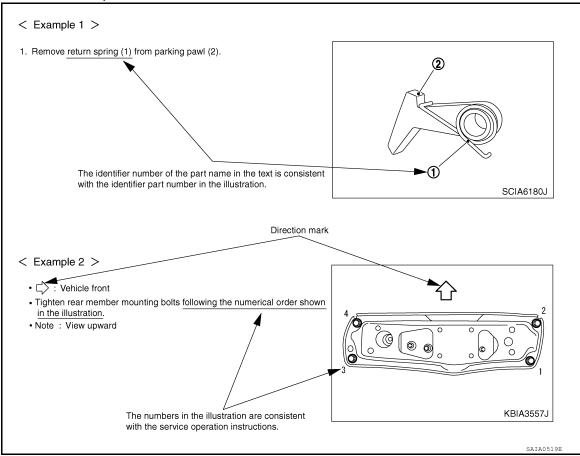
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GI-3 Revision: January 2012 2011 Maxima

# 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.



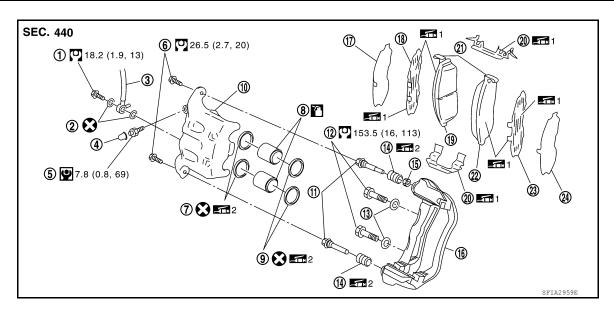
# Components

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**.

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

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.



1. Union bolt

4. Cap

7. Piston seal

10. Cylinder body

Washer 13.

Torque member 16.

19. Inner pad

22. Outer pad

1: PBC (Poly Butyl Cuprysil) grease 2: Rubber grease or silicone-based grease

2. Copper washer

5. Bleed valve

8. Piston

11. Sliding pin

Sliding pin boot 14.

Inner shim cover 17.

20. Pad retainer

23. Outer shim

3. Brake hose

6. Sliding pin bolt

9. Piston boot

12. Torque member mounting bolt

15. Bushing

18. Inner shim

21. Pad wear sensor

Outer shim cover

: Brake fluid

Refer to GI section for additional symbol definitions.

### **SYMBOLS**

SYMBOL	DESCRIPTIO	N	SYMBOL	DESCRIPTION
<b>P</b>	Tightening torque The tightening torque specifications  I N•m (kg-m, ft-lb)		€	Always replace after every disassembly.
<b>9</b>	<ul> <li>of bolts and nuts may be presented as either a range or a standard tightening torque.</li> </ul>	<b>♀</b> : N•m (kg-m, in-lb)	<b>₽</b>	Apply petroleum jelly.
<b>a</b>	Should be lubricated with grease. Un indicated, use recommended multi-p		<b>11</b> (M)	Apply molybdenum added petroleum jelly.
7	Should be lubricated with oil.		ATF	Apply ATF.
	Sealing point		*	Select with proper thickness.
	Sealing point with locking sealant.		☆	Adjustment is required.
<u></u>	Checking point			
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### **HOW TO FOLLOW TROUBLE DIAGNOSES**

< HOW TO USE THIS MANUAL >

## HOW TO FOLLOW TROUBLE DIAGNOSES

Description INFOID:0000000006237698

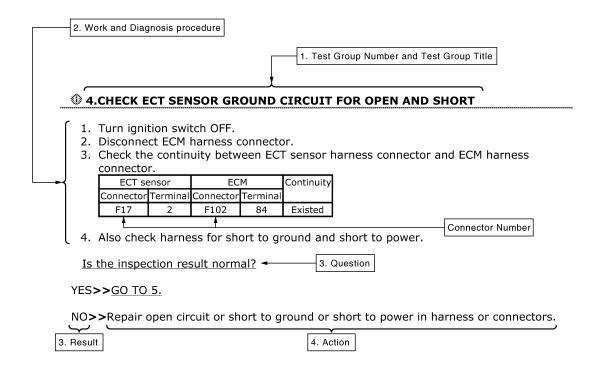
#### NOTICE:

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, make sure 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.
- Work and diagnosis procedure
  - Start to diagnose a problem using procedures indicated in enclosed test groups.
- Questions and results
  - Questions and required results are indicated in test group.
- Action
  - Next action for each test group is indicated based on result of each guestion.

# **HOW TO FOLLOW TROUBLE DIAGNOSES**

# < HOW TO USE THIS MANUAL >

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
<b>€</b> ₽	Check after disconnecting the connector to be measured.	<b>(SI)</b>	Procedure with Generic Scan Tool. (GST, OBD-II scan tool)
€	Check after connecting the connector to be measured.	NO	Procedure without CONSULT-II, CONSULT-III or GST
	Insert key into ignition switch.	A/C OFF	A/C switch is "OFF".
	Remove key from ignition switch.	A/C ON	A/C switch is "ON".
	Insert and remove key repeatedly.		REC switch is "ON".
	Turn ignition switch to "OFF" position.		REC switch is "OFF".
(Ca)	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.	FUSE	Apply fuse.
<b>C</b> FF ACC	Turn ignition switch from "OFF" to "ACC" position.	[FUSE]	Apply positive voltage from battery with fuse
CO ON	Turn ignition switch from "ACC" to "ON" position.	BAT	directly to components.
(ACC) OFF	Turn ignition switch from "ACC" to "OFF" position.		

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# **HOW TO FOLLOW TROUBLE DIAGNOSES**

### < HOW TO USE THIS MANUAL >

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
<b>OFF</b> ON	Turn ignition switch from "OFF" to "ON" position.	- 3	Drive vehicle.
CON OFF	Turn ignition switch from "ON" to "OFF" position.		blive velicle.
	Do not start engine, or check with engine stopped.	BAT	Disconnect battery negative cable.
	Start engine, or check with engine running.		Depress brake pedal.
	Apply parking brake.		Release brake pedal.
and the same	Release parking brake.		Depress accelerator pedal.
СФН	Check after engine is warmed up sufficiently.		Release accelerator pedal.
<b>V</b> ⊕ ⊖	Votage should be measured with a voltmeter.	E) HS	Pin terminal check for SMJ type ECM or TCM connectors. For details regarding the terminal
Ω • •	Circuit resistance should be measured with an ohmmeter.		arrangement, refer to the "ELECTRICAL UNITS" electrical reference page at the end of the manual.
<b>A</b> ⊕ ⊖	Current should be measured with an ammeter.		
<b>→</b> ⊕ ⊖	Pulse signal should be checked with an oscilloscope.	÷	
	Procedure with CONSULT-III		
	Procedure without CONSULT-III		
	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.		
<b>∞</b>	Inspect rear under floor.		

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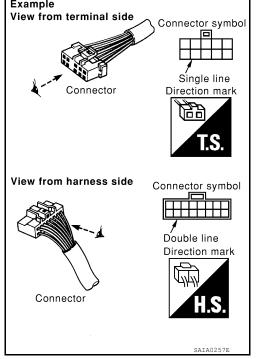
# HOW TO READ WIRING DIAGRAMS

# Connector symbols

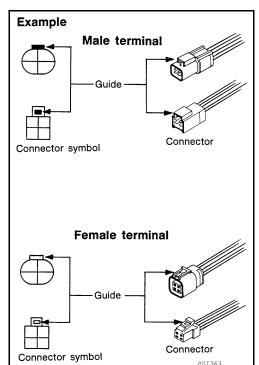
Most connector symbols in wiring diagrams are shown from the terminal side.

- Connector symbols shown from the terminal side are enclosed by a single line and followed by the direction mark.

  Example View from
- 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.



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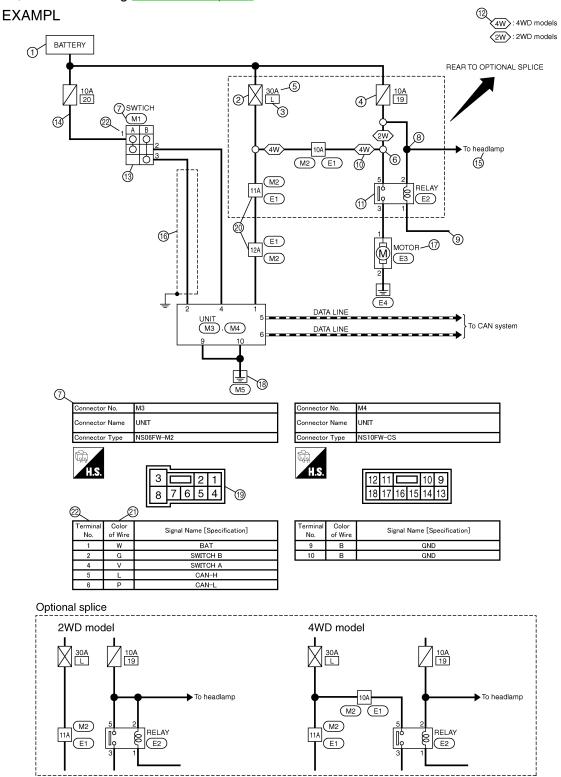
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# Sample/wiring diagram -example-

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• For detail, refer to following GI-11, "Description".



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### **HOW TO READ WIRING DIAGRAMS**

### < HOW TO USE THIS MANUAL >

Description

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Number	Item	Description				
1	Power supply	This means the power supply of fusible link or fuse.				
2	Fusible link	"X" means the fusible link.				
3	Number of fusible link/ fuse	This means the number of fusible link or fuse location.				
4	Fuse	"/" means the fuse.				
5	Current rating of fus- ible link/fuse	his means the current rating of the fusible link or fuse.				
6	Optional splice	The open circle shows that the splice is optional depending on vehicle application.				
7	Connector number	The letter shows which harness the connector is located in.  Example "M": main harness. For detail and to locate the connector, refer to PG-53, "Electrical Units Location", PG-35, "Harness Layout".				
8	Splice	The shaded circle "     means the splice.				
9	Page crossing	This circuit continues to an adjacent page.				
10	Option abbreviation	This means the vehicle specifications which layouts the circuit between "O".				
11	Relay	This shows an internal representation of the relay.				
12	Option description	This shows a description of the option abbreviation used on the page.				
13	Switch	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.				
14	Circuit (Wiring)	This means the wiring.				
15	System branch	This shows that the circuit is branched to other systems.				
16	Shielded line	he line enclosed by broken line circle shows shield wire.				
17	Component name	This shows the name of a component.				
18	Ground (GND)	This shows the ground connection.				
19	Connector	<ul><li>This means the connector information.</li><li>This unit-side is described by the connector symbols.</li></ul>				
20	Connectors	This means that a transmission line bypasses two connectors or more.				
		This shows a code for the color of the wire.				
21	Wire color	B = Black         OR or O = Orange           W = White         P = Pink           R = Red         PU or V (Violet) = Purple           G = Green         GY or GR = Gray           L = Blue         SB = Sky Blue           Y = Yellow         CH = Dark Brown           LG = Light Green         DG = Dark Green				
		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				
22	Terminal number	This means the terminal number of a connector.				

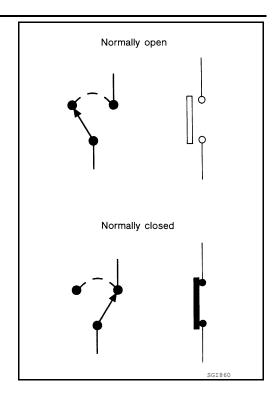
### **SWITCH POSITIONS**

Switches are shown in wiring diagrams as if the vehicle is in the "normal" condition. A vehicle is in the "normal" condition when:

### **HOW TO READ WIRING DIAGRAMS**

### < HOW TO USE THIS MANUAL >

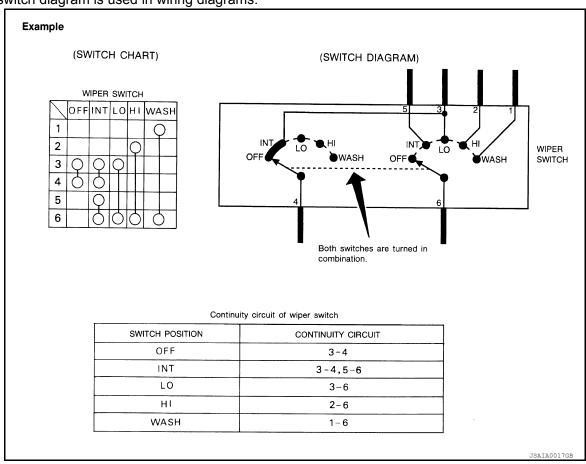
- · ignition switch is "OFF",
- · doors, hood and trunk lid/back door are closed,
- · pedals are not depressed, and
- · parking brake is released.



### **MULTIPLE SWITCH**

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

- The switch chart is used in schematic diagrams.
- The switch diagram is used in wiring diagrams.



### **ABBREVIATIONS**

# < HOW TO USE THIS MANUAL >

# **ABBREVIATIONS**

Abbreviation List

# The following **ABBREVIATIONS** are used:

ABBREVIATION	DESCRIPTION
A/C	Air Conditioner
ATF	Automatic Transmission Fluid
CVT	Continuously variable transmission
D1	Drive range (1 gr)
D2	Drive range (2 gr)
D3	Drive range (3 gr)
D4	Drive range (4 gr)
FR, RR	Front, Rear
LH, RH	Left-Hand, Right-Hand
M/T	Manual Transaxle/Transmission
OD	Overdrive
P/S	Power Steering
SAE	Society of Automotive Engineers, Inc.
SDS	Service Data and Specifications
SST	Special Service Tools
2WD	2-Wheel Drive
22	2nd range (2 gr)
21	2nd range (1 gr)
12	1st range (2 gr)
11	1st range (1 gr)

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### **TIGHTENING TORQUE OF STANDARD BOLTS**

# TIGHTENING TORQUE OF STANDARD BOLTS

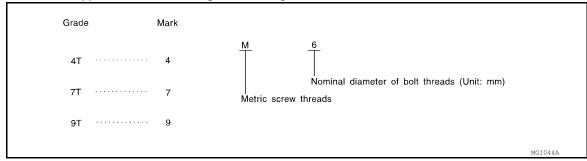
# Tightening Torque Table

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		Bolt diam-		Tightening torque (Without lubricant)							
Grade	Bolt size	eter *	Pitch mm		Hexagon head bolt				Hexagon flange bolt		
		mm		N⋅m	kg-m	ft-lb	in-lb	N·m	kg-m	ft-lb	in-lb
	M6	6.0	1.0	5.5	0.56	4	49	7	0.71	5	62
	M8	8.0	1.25	13.5	1.4	10	_	17	1.7	13	_
	IVIO	0.0	1.0	13.5	1.4	10	_	17	1.7	13	_
4T	M10	10.0	1.5	28	2.9	21	_	35	3.6	26	_
41	IVITO	10.0	1.25	28	2.9	21	_	35	3.6	26	_
	M12	12.0	1.75	45	4.6	33	_	55	5.6	41	_
	IVITZ	12.0	1.25	45	4.6	33	_	65	6.6	48	_
	M14	14.0	1.5	80	8.2	59	_	100	10	74	_
	M6	6.0	1.0	9	0.92	7	80	11	1.1	8	97
	M8 8.0	9.0	1.25	22	2.2	16	_	28	2.9	21	_
		8.0	1.0	22	2.2	16	_	28	2.9	21	_
7T	M10 10.0	10.0	1.5	45	4.6	33	_	55	5.6	41	_
7 1		10.0	1.25	45	4.6	33	_	55	5.6	41	_
	M12 12.0	12.0	1.75	80	8.2	59	_	100	10	74	_
		10112 12.0	12.0	1.25	80	8.2	59	_	100	10	74
	M14	14.0	1.5	130	13	96	_	170	17	125	_
	M6	6.0	1.0	11	1.1	8	_	13.5	1.4	10	_
	M8 8.0	8.0	1.25	28	2.9	21	_	35	3.6	26	_
	IVIO	0.0	1.0	28	2.9	21	_	35	3.6	26	_
ОТ	M10	10.0	1.5	55	5.6	41	_	80	8.2	59	_
9T	IVITO	10.0	1.25	55	5.6	41	_	80	8.2	59	_
	M12	12.0	1.75	100	10	74	_	130	13	96	_
	IVIIZ	12.0	1.25	100	10	74	_	130	13	96	_
	M14	14.0	1.5	170	17	125	_	210	21	155	_

<sup>\*:</sup> Nominal diameter

2. This standard is applicable to bolts having the following marks embossed on the bolt head.



<sup>1.</sup> Special parts are excluded.

## RECOMMENDED CHEMICAL PRODUCTS AND SEALANTS

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# 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 remount rear view mirrors to windows.	999MP-AM000P	99998-50505	Permatex 81844
2	Anaerobic Liquid Gas- ket	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 Seal- ant (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

# SAE J1930 Terminology List

INFOID:0000000006237707

All emission related terms used in this publication in accordance with SAE J1930 are listed. Accordingly, new terms, new acronyms/abbreviations and old terms are listed in the following chart.

NEW TERM	NEW ACRONYM / ABBREVIATION	OLD TERM
Air cleaner	ACL	Air cleaner
Barometric pressure	BARO	***
Barometric pressure sensor-BCDD	BAROS-BCDD	BCDD
Camshaft position	CMP	***
Camshaft position sensor	CMPS	Crank angle sensor
Canister	***	Canister
Carburetor	CARB	Carburetor
Charge air cooler	CAC	Intercooler
Closed loop	CL	Closed loop
Closed throttle position switch	CTP switch	Idle switch
Clutch pedal position switch	CPP switch	Clutch switch
Continuous fuel injection system	CFI system	***
Continuous trap oxidizer system	CTOX system	***
Crankshaft position	CKP	***
Crankshaft position sensor	CKPS	***
Data link connector	DLC	***
Data link connector for CONSULT-III	DLC for CONSULT-III	Diagnostic connector for CONSULT-III
Diagnostic test mode	DTM	Diagnostic mode
Diagnostic test mode selector	DTM selector	Diagnostic mode selector
Diagnostic test mode I	DTM I	Mode I
Diagnostic test mode II	DTM II	Mode II
Diagnostic trouble code	DTC	Malfunction code
Direct fuel injection system	DFI system	***
Distributor ignition system	DI system	Ignition timing control
Early fuel evaporation-mixture heater	EFE-mixture heater	Mixture heater
Early fuel evaporation system	EFE system	Mixture heater control
Electrically erasable programmable read only memory	EEPROM	***
Electronic ignition system	EI system	Ignition timing control
Engine control	EC	***
Engine control module	ECM	ECCS control unit
Engine coolant temperature	ECT	Engine temperature
Engine coolant temperature sensor	ECTS	Engine temperature sensor
Engine modification	EM	***
Engine speed	RPM	Engine speed
Erasable programmable read only memory	EPROM	***
Evaporative emission canister	EVAP canister	Canister
Evaporative emission system	EVAP system	Canister control solenoid valve
Exhaust gas recirculation valve	EGR valve	EGR valve

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NEW TERM	NEW ACRONYM / ABBREVIATION	OLD TERM	GI
Exhaust gas recirculation control-BPT valve	EGRC-BPT valve	BPT valve	-
Exhaust gas recirculation control-solenoid valve	EGRC-solenoid valve	EGR control solenoid valve	В
Exhaust gas recirculation temperature sensor	EGRT sensor	Exhaust gas temperature sensor	С
EGR temperature sensor  Flash electrically erasable programmable read only memory	FEEPROM	***	- D
Flash erasable programmable read only memory	FEPROM	***	-
Flexible fuel sensor	FFS	***	E
Flexible fuel system	FF system	***	-
Fuel pressure regulator	***	Pressure regulator	
Fuel pressure regulator control solenoid valve	***	PRVR control solenoid valve	. F
Fuel trim	FT	***	G
Heated Oxygen sensor	HO2S	Exhaust gas sensor	
Idle air control system	IAC system	Idle speed control	=
Idle air control valve-air regulator	IACV-air regulator	Air regulator	Н
Idle air control valve-auxiliary air control valve	IACV-AAC valve	Auxiliary air control (AAC) valve	=
Idle air control valve-FICD solenoid valve	IACV-FICD solenoid valve	FICD solenoid valve	-
Idle air control valve-idle up control sole- noid valve	IACV-idle up control solenoid valve	Idle up control solenoid valve	-
Idle speed control-FI pot	ISC-FI pot	FI pot	J
Idle speed control system	ISC system	***	=
Ignition control	IC	***	K
Ignition control module	ICM	***	-
Indirect fuel injection system	IFI system	***	-
Intake air	IA	Air	- L
Intake air temperature sensor	IAT sensor	Air temperature sensor	-
Knock	***	Detonation	M
Knock sensor	KS	Detonation sensor	-
Malfunction indicator lamp	MIL	Check engine light	-
Manifold absolute pressure	MAP	***	N
Manifold absolute pressure sensor	MAPS	***	-
Manifold differential pressure	MDP	***	0
Manifold differential pressure sensor	MDPS	***	_
Manifold surface temperature	MST	***	-
Manifold surface temperature sensor	MSTS	***	Р
Manifold vacuum zone	MVZ	***	Ξ
Manifold vacuum zone sensor	MVZS	***	Ξ
Mass air flow sensor	MAFS	Air flow meter	-
Mixture control solenoid valve	MC solenoid valve	Air-fuel ratio control solenoid valve	-
Multiport fuel injection system	MFI system	Fuel injection control	=

# < HOW TO USE THIS MANUAL >

NEW TERM	NEW ACRONYM / ABBREVIATION	OLD TERM
Nonvolatile random access memory	NVRAM	***
On board diagnostic system	OBD system	Self-diagnosis
Open loop	OL	Open loop
Oxidation catalyst	ОС	Catalyst
Oxidation catalytic converter system	OC system	***
Oxygen sensor	O2S	Exhaust gas sensor
Park position switch	***	Park switch
Periodic trap oxidizer system	PTOX system	***
Positive crankcase ventilation	PCV	Positive crankcase ventilation
Positive crankcase ventilation valve	PCV valve	PCV valve
Powertrain control module	PCM	***
Programmable read only memory	PROM	***
Pulsed secondary air injection control sole- noid valve	PAIRC solenoid valve	AIV control solenoid valve
Pulsed secondary air injection system	PAIR system	Air induction valve (AIV) control
Pulsed secondary air injection valve	PAIR valve	Air induction valve
Random access memory	RAM	***
Read only memory	ROM	***
Scan tool	ST	***
Secondary air injection pump	AIR pump	***
Secondary air injection system	AIR system	***
Sequential multiport fuel injection system	SFI system	Sequential fuel injection
Service reminder indicator	SRI	***
Simultaneous multiport fuel injection system	***	Simultaneous fuel injection
Smoke puff limiter system	SPL system	***
Supercharger	SC	***
Supercharger bypass	SCB	***
System readiness test	SRT	***
Thermal vacuum valve	TVV	Thermal vacuum valve
Three way catalyst	TWC	Catalyst
Three way catalytic converter system	TWC system	***
Three way + oxidation catalyst	TWC + OC	Catalyst
Three way + oxidation catalytic converter system	TWC + OC system	***
Throttle body	ТВ	Throttle chamber SPI body
Throttle body fuel injection system	TBI system	Fuel injection control
Throttle position	TP	Throttle position
Throttle position sensor	TPS	Throttle sensor
Throttle position switch	TP switch	Throttle switch
Torque converter clutch solenoid valve	TCC solenoid valve	Lock-up cancel solenoid Lock-up solenoid
Transmission range switch	***	Park/neutral position switch
Transmission control module	TCM	A/T control unit

# < HOW TO USE THIS MANUAL >

NEW TERM	NEW ACRONYM / ABBREVIATION	OLD TERM	GI
Turbocharger	TC	Turbocharger	
Vehicle speed sensor	VSS	Vehicle speed sensor	
Volume air flow sensor	VAFS	Air flow meter	— В
Warm up oxidation catalyst	WU-OC	Catalyst	
Warm up oxidation catalytic converter system	WU-OC system	***	С
Warm up three way catalyst	WU-TWC	Catalyst	
Warm up three way catalytic converter system	WU-TWC system	***	D
Wide open throttle position switch	WOTP switch	Full switch	

<sup>\*\*\*\*:</sup> Not applicable

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< FEATURES OF NEW MODEL >

# FEATURES OF NEW MODEL

# **IDENTIFICATION INFORMATION**

Model Variation

			Destination					
Body	Engine	Grade	Transmission	U	SA	Canada	Mexico	
				Federal	50-State	Canada	IVIEXICO	
Sedan	3.5 S	VQ35DE	3.5 S	CVT	BLJALQZ-EUA	BLJALQZ-EVA		
Sedan VQSSDE	3.5 SV	CVI	BLJALFZ-EUA	BLJALFZ-EVA	BLJALFZ-ENA	BLJALFZ-EJA		

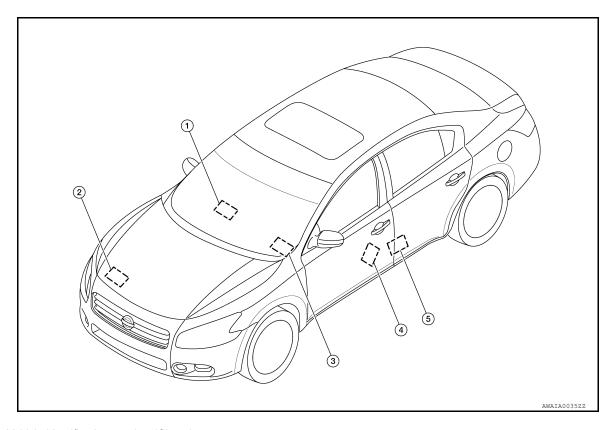
Prefix	and	Suffix	design	ations:

Position	Character	Qualifier	Definition		
1	В	Body type	B: 4-Door		
2			LLVOOSDE		
3	LJ	Engine	LJ: VQ35DE		
4	А	Axle	A: 2WD		
5	L	Drive	L: LH		
6	Q	Grade	Q: 3.5 S		
0	Q	Grade	F: 3.5 SV		
7	Z	Transmission	Z: CVT		
8					
9	A35	Model	A35: Maxima Sedan		
10					
11	E	Intake	E: EGI		
	U	Zone	U: Federal		
12			V: 50-State		
12	J		N: Canada		
			J: Mexico		
13	Α	Equipment	A: Standard		
14					
15					
16	XXXXX	XXXX Option Codes	Option Codes		
17					
18					

### < FEATURES OF NEW MODEL >

# **Identification Number**

INFOID:0000000006237709



Vehicle identification number (Chassis

- number) Located under carpet on cross Emission control information label
   Vehicle identification number (VIN) plate member
- 4. Tire and loading information label
- F.M.V.S.S./C.M.V.S.S. certification label

### Vehicle Identification Number Arrangement

Position	Character	Qualifier	Definition
1			
2	1N4	Manufacturer	1N4: USA produced passenger vehicle
3			
4	Α	Engine type	A: VQ35DE
5	- A5	Model code	A5: A35 NISSAN Maxima
6		woder code	AS. ASS INISSAIN MAXIIIIA
7	Α	Body type	A: 4-door sedan
8	Р	Restraint system	P: Driver and front passenger: 3- point manual seat belts, SRS frontal air bags, side air bags and curtain side air bags; 2nd row outboard: 3- point manual seat belts, SRS curtain side air bags; 2nd row center: 3- point manual seat belt
9	*	Check digit	(0 to 9 or X) The code for the check digit is determined by a mathematical computation.
10	В	Model year	B: 2011
11	С	Manufacturing plant	C: Smyrna, Tennessee

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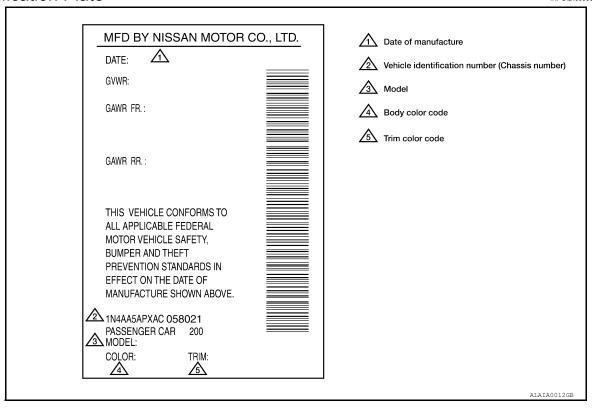
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### < FEATURES OF NEW MODEL >

Position	Character	Qualifier	Definition
12			
13			
14	XXXXXX	Vehicle serial num-	Chassis number
15	******	ber	Chassis Humber
16			
17			

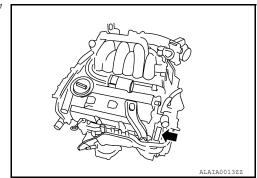
# **Identification Plate**

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**Engine Serial Number** 

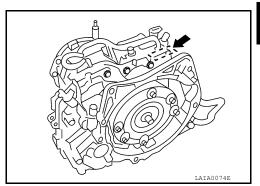
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### < FEATURES OF NEW MODEL >

# CVT Number

INFOID:0000000006237712



**Dimensions** 

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Unit: mm (in)

Overall length	4843 (190.6)
Overall width	1,860 (73.2)
Overall height	1,472 (57.9)
Front tread	1,585 (62.4)
Rear tread	1,585 (62.4)
Wheelbase	2,775 (109.3)

Wheels & Tires

INFOID:0000000006237714

	Conventional	Spare
Road wheel/offset mm (in)	18 X 8J Cast Aluminum/50 (1.97) 19 X 8J Cast Aluminum/50 (1.97)	17 X 4t
Tire size	P245/45VR18 P245/40VR19 P245/40WR19 (optional for Canada)	T145/80D17 T145/80R17

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# **PRECAUTIONS**

Description INFOID:00000000000237715

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"

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 SR and SB section of this Service Manual.

#### **WARNING:**

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal
  injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag
  Module, see the SR section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

#### **WARNING:**

- When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors with the Ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the Ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

Precautions For Xenon Headlamp Service

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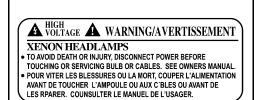
#### **WARNING:**

Comply with the following warnings to prevent any serious accident.

- Disconnect the battery cable (negative terminal) or the power supply fuse before installing, removing, or touching the xenon headlamp (bulb included). The xenon headlamp contains high-voltage generated parts.
- · Never work with wet hands.
- Check the xenon headlamp ON-OFF status after assembling it to the vehicle. Never turn the xenon headlamp ON in other conditions. Connect the power supply to the vehicle-side connector.
  - (Turning it ON outside the lamp case may cause fire or visual impairments.)
- Never touch the bulb glass immediately after turning it OFF. It is extremely hot.

### **CAUTION:**

Comply with the following cautions to prevent any error and malfunction.



WELVOTEUE

#### < PRECAUTION >

- Install the xenon bulb securely. (Insufficient bulb socket installation may melt the bulb, the connector, the housing, etc, by high-voltage leakage or corona discharge.)
- Never perform HID circuit inspection with a tester.
- Never touch the xenon bulb glass with hands. Never put oil and grease on it.
- Dispose of the used xenon bulb after packing it in thick vinyl without breaking it.
- · Never wipe out dirt and contamination with organic solvent (thinner, gasoline, etc.).

# **WARNING** 傷害となる感電の恐れがあるので、下記を守って下さい。 ・電源スイッチをOFFにしてから電流コネクタを脱端してでさい。 ・一分解したり、国際やハーネスを就造しないでするい。 ・電気テスターを用いて回路診断をしないで下さい。 TO AVOID DEATH OR SERIOUS PERSONAL INJURY FROM ELECTRICAL SHOCK CONNECTORS DEFORE THE POWER SWITCH IS TURNED DEFORE THE POWER SWITCH IS TURNED DEFORE THE POWER SWITCH IS TURNED DEFORE THE POWER SWITCH 高電圧 XENON LAMP BALLAST parts no.SCB26 SOURCE: D2S · D2R 2000Hr VOLTAGE: DC13.5V JT VOLTAGE: POWER: 85V.35W CIRCUIT VOLTAGE: 400V -95.000(with)

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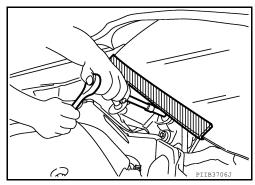
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# Procedures without Cowl Top Cover

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

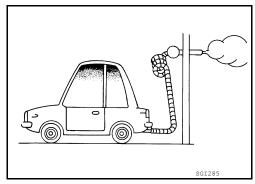


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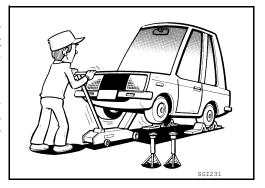
### General Precautions

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

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. Do not smoke while working on the vehicle.



- 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 vehi-
  - These operations should be done on a level surface.
- 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.



2011 Maxima

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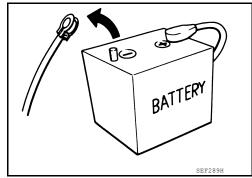
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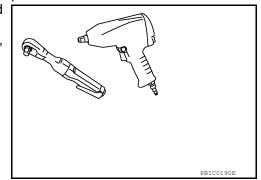
**GI-25** Revision: January 2012

### < PRECAUTION >

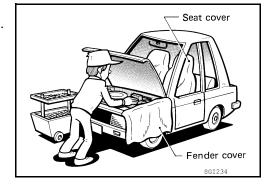
- Before starting repairs which do not require battery power: Turn off ignition switch.
  - Disconnect the negative battery terminal.
- · If the battery terminals are disconnected, recorded memory of radio and each control unit is erased.



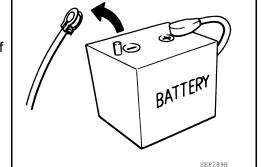
- To prevent serious burns:
  - Avoid contact with hot metal parts.
  - Do not remove the radiator cap when the engine is hot.
- Dispose of drained oil or the solvent used for cleaning parts in an appropriate manner.
- Do not attempt to top off the fuel tank after the fuel pump nozzle shuts off automatically.
  - 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 leaks.



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



To prevent ECM from storing the diagnostic trouble codes, do not carelessly disconnect the harness connectors which are related to the engine control system and TCM (transmission control module)



### < PRECAUTION >

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

## Three Way Catalyst

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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.

## Fuel (Unleaded Premium Gasoline Recommended) VQ35DE

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NISSAN recommends the use of unleaded premium gasoline with an octane rating of at least 91 AKI (Anti-Knock Index) number (Research octane number 96). If unleaded premium gasoline is not available, you may use unleaded regular gasoline with an octane rating of at least 87 AKI number (Research octane number 91), but you may notice a decrease in performance.

#### **CAUTION:**

Do not use leaded gasoline. Using leaded gasoline will damage the three way catalyst. Do not use E-85 fuel (85% fuel ethanol, 15% unleaded gasoline) unless the vehicle is specifically designed for E-85 fuel (i.e. Flexible Fuel Vehicle - FFV models). Using a fuel other than that specified could adversely affect the emission control devices and systems, and could also affect the warranty coverage validity.

## Multiport Fuel Injection System or Engine Control System

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- Before connecting or disconnecting any harness connector for the multiport 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.

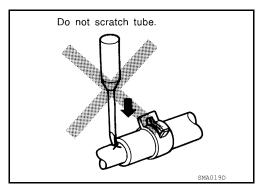


Hoses

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#### 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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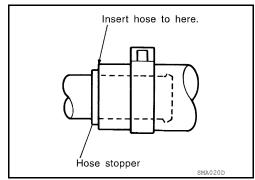
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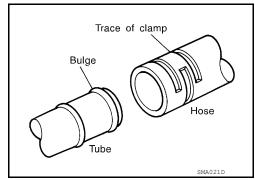
### < PRECAUTION >

 To reinstall the rubber hose securely, make sure 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.)

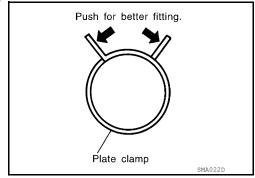


### HOSE CLAMPING

- 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**

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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**

### < 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.

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It is illegal to pour used oil on to the ground, down sewers or drains, or into water sources. The regulations concerning pollution vary between regions.

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# Air Conditioning

Use an approved refrigerant recovery unit any time the air conditioning system must be discharged. Refer to <u>HA-32</u>, "Collection and Charge".

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### LIFTING POINT

## Special Service Tool

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The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

Tool number (Kent-Moore No.) Tool name	Description
LM4086-0200 ( - ) Board on attachment	S-NTOO1
LM4519-0000 ( - ) Safety stand attachment	S-NTOO2

#### **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 transmission 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 transmission jack or equivalent.
- Be careful not to smash or do anything that would affect piping parts.

# Garage Jack and Safety Stand

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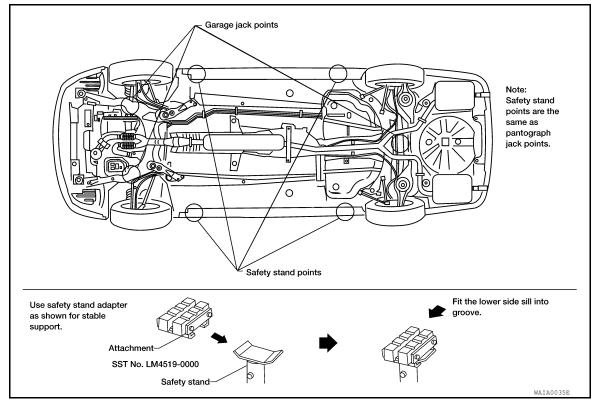
### **WARNING:**

- Park the vehicle on a level surface when using the jack. Make sure 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.

### **LIFTING POINT**

### < PRECAUTION >

• Lift at reinforced area of front suspension member where lower control arm attaches, staying in center line of wheels.



2-Pole Lift

### **WARNING:**

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.

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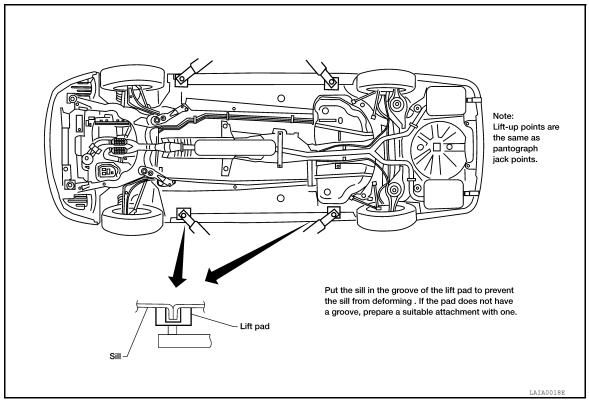
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When setting the lift arm, do not allow the arm to contact the brake tubes, brake cable, fuel lines and sill spoiler.

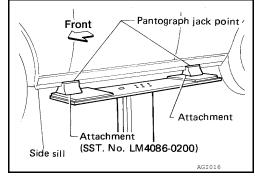


Board-on Lift

### **CAUTION:**

Make sure vehicle is empty when lifting.

- The board-on lift attachment (LM4086-0200) 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.



## TOW TRUCK TOWING

Tow Truck Towing

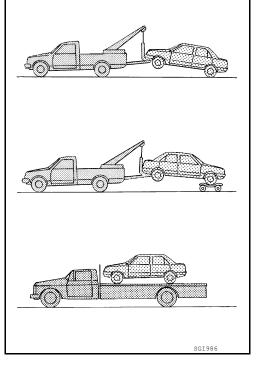
#### **CAUTION:**

- Never tow a CVT model with the rear wheels raised and the front wheels on the ground. This may
  cause serious and expensive damage to the transaxle. If it is necessary to tow the vehicle with the
  rear wheels raised, always use towing dollies under the front wheels.
- Never tow a CVT model from the rear (that is, backward) with four wheels on the ground. This may cause serious and expensive damage to the transaxle.

NISSAN recommends that the vehicle be towed with the driving (front) wheels off the ground or place the vehicle on a flat bed truck as illustrated.

#### **CAUTION:**

- Always release the parking brake when towing the vehicle with the front wheels raised with the rear wheels on the ground.
- When the battery of a vehicle equipped with the Intelligent Key system is discharged, the vehicle should be towed with the front wheels on towing dollies or place the vehicle on a flat bed truck.



# Vehicle Recovery (Freeing a Stuck Vehicle)

**FRONT** 

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

#### WARNING:

- Stand clear of a stuck vehicle.
- Do not 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.
- Do not 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 do not 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.

**CVT** 

To tow a vehicle equipped with a CVT, an appropriate vehicle dolly **MUST** be placed under the towed vehicle's drive wheels. **Always** follow the dolly manufacture's recommendations when using their product. If the vehicle is stuck in sand, snow, mud, etc., use the following procedure:

Turn off the Vehicle Dynamic Control System.

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### **TOW TRUCK TOWING**

### < PRECAUTION >

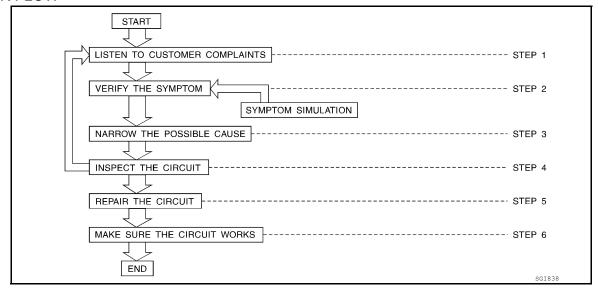
- 2. Make sure the area in front and behind the vehicle is clear of obstructions.
- 3. Turn the steering wheel right and left to clear an area around the front tires.
- 4. Slowly rock the vehicle forward and backward. Shift back and forth between R (Reverse) and D (Drive). Apply the accelerator as little as possible to maintain the rocking motion. Release the accelerator pedal before shifting between R (Reverse) and D (Drive). 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.

# **BASIC INSPECTION**

# SERVICE INFORMATION FOR ELECTRICAL INCIDENT

Work Flow

### **WORK FLOW**



STEP		DESCRIPTION			
		formation about the conditions and the environment when the incident occurred. are key pieces of information required to make a good analysis:			
	WHAT	Vehicle Model, Engine, Transmission/Transaxle and the System (i.e., Radio).			
STEP 1	WHEN	Date, Time of Day, Weather Conditions, Frequency.			
	WHERE	Road Conditions, Altitude and Traffic Situation.			
	ном	System Symptoms, Operating Conditions (Other Components Interaction). Service History and if any Aftermarket Accessories have been installed.			
STEP 2	Verify the para	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:  Power Supply Routing  System Operation Descriptions  Applicable Service Manual Sections  Check for any Service Bulletins 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 repla	nce the incident circuit or component.			
STEP 6	Operate the system in all modes. Verify the system works properly under all conditions. Make sure you have not inadvertently created a new incident during your diagnosis or repair steps.				

### Control Units and Electrical Parts

### **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.

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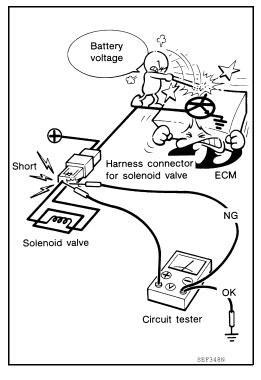
### SERVICE INFORMATION FOR ELECTRICAL INCIDENT

### < 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.

# < BASIC INSPECTION >

Tool number (Kent-Moore No.) Tool name		Desc	cription	
- (J38751-95NI) Connector and terminal pin kit (NISSAN) - (J38751-95INF)	J38751-95NI	J38751-95INF	J42992-98KIT	J42992-2000UPD
Connector and terminal pin kit (INFINITI) - (J42992-98KIT) OBD and terminal repair kit				
J42992-2000UPD) OBD-II Connector Kit Up-		WAIA0004E		WAIA0005E

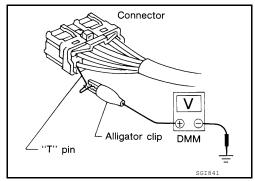
# HOW TO PROBE CONNECTORS

- 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.

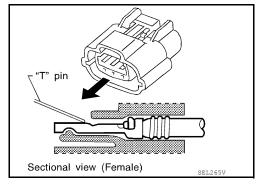
- If the connector has a rear cover such as a ECM connector, remove the rear cover before probing the terminal.
- Do not probe waterproof connector from harness side. Damage to the seal between wire and connector may result.



# 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.



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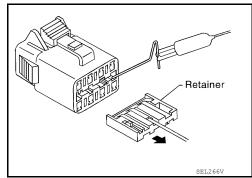
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# < BASIC INSPECTION >

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

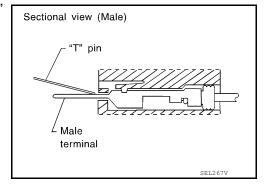


#### MALE TERMINAL

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

#### **CAUTION:**

Dot not bend terminal.

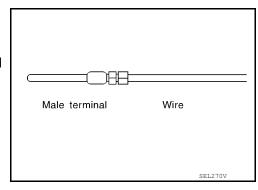


How to Check Enlarged Contact Spring of Terminal

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

Use a male terminal which matches the female terminal.

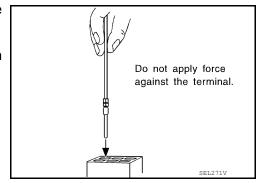
2. Disconnect the suspected faulty connector and hold it terminal side up.



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

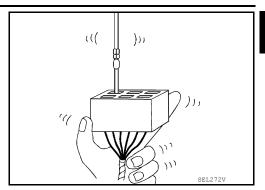
#### **CAUTION:**

Do not force the male terminal into the female terminal with your hands.



# < BASIC INSPECTION >

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



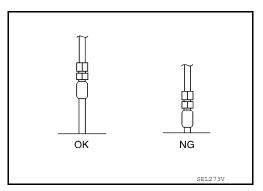
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If the male terminal can be easily inserted into the female terminal, replace the female terminal.



#### 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, make sure the rubber seal is properly installed on either side of male or female connector.

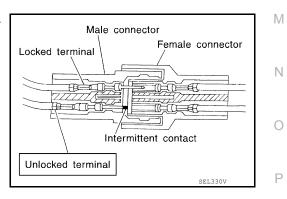
#### WIRE SEAL INSPECTION

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

# Connector housing Rubber seal

#### 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.



# Intermittent Incident

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# **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-

# < BASIC INSPECTION >

lowing 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

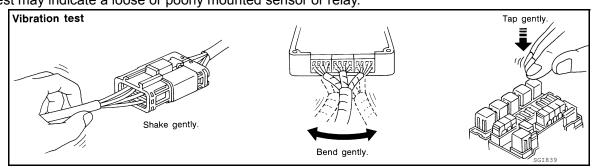
Determine which connectors and wiring harness would affect the electrical system you are inspecting. Gently shake each connector and harness while monitoring the system for the incident you are trying to duplicate. This test may indicate a loose or poor electrical connection.

#### 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** 

# < 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.

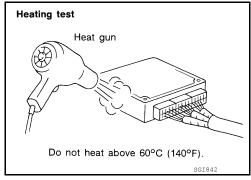
# HEAT SENSITIVE

- 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:**

# Do not heat components above 60°C (140°).

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



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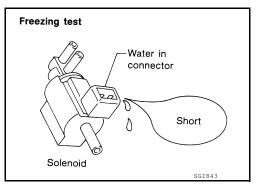
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#### FREEZING

- 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. Make sure 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.

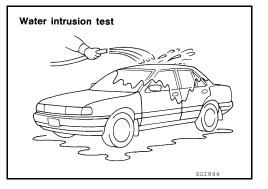


#### WATER INTRUSION

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.

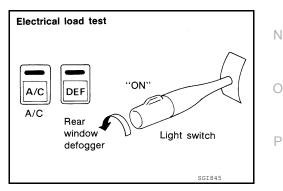
#### **CAUTION:**

Do not 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.

**GI-41** Revision: January 2012 2011 Maxima

# < BASIC INSPECTION >

# Circuit Inspection

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# **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.

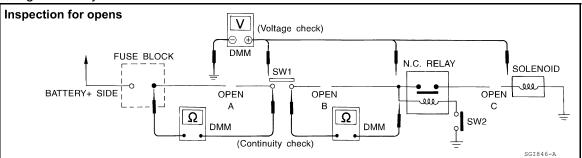
OPEN	A circuit is open when there is no continuity through a section of the circuit.				
	There are two types of shorts.				
SHORT	SHORT CIRCUIT	When a circuit contacts another circuit and causes the normal resistance to change.			
	SHORT TO GROUND	When a circuit contacts a ground source and grounds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

#### NOTE:

Refer to GI-36, "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). Make sure 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.

# < BASIC INSPECTION >

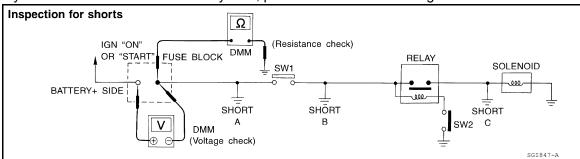
no voltage; open is between fuse block and SW1 (point A).

- Close SW1 and probe at relay.
   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.
   voltage; open is further down the circuit than the solenoid.
   no voltage; open is between relay and solenoid (point C).

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

#### TESTING FOR "SHORTS" IN THE CIRCUIT

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



#### 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 key 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.

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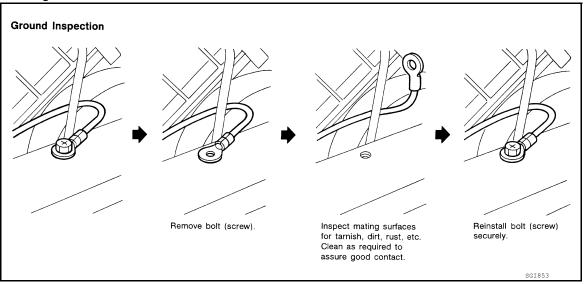
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# < BASIC INSPECTION >

- 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. Make sure all of the wires are clean, securely fastened and providing a good ground path. If multiple wires are cased in one eyelet, make sure no ground wires have excess wire insulation.
- For detailed ground distribution information, refer to "Ground Distribution" in PG section.



# **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 a DMM, contact by a single strand of wire will give reading of 0 ohm. 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.

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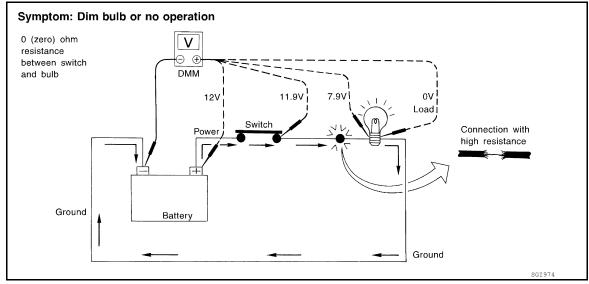
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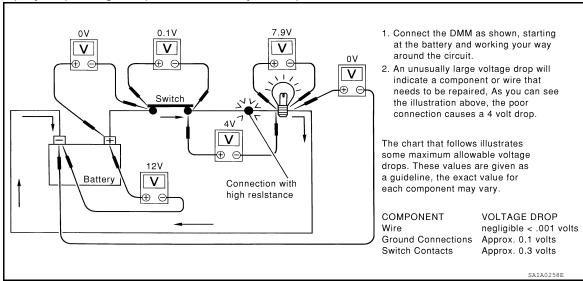
# < BASIC INSPECTION >

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



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.

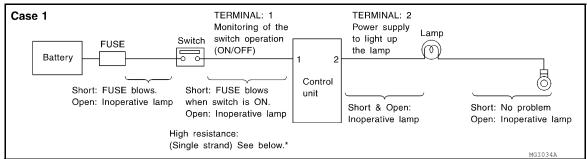


# CONTROL UNIT CIRCUIT TEST

System Description

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

# CASE 1

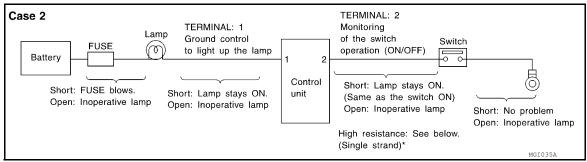


# < BASIC INSPECTION >

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

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

# < BASIC INSPECTION >

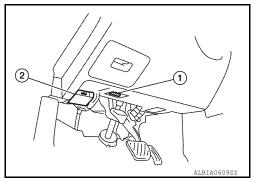
# CONSULT-III CHECKING SYSTEM

Description INFOID:0000000006237738

 When CONSULT-III is connected with a data link connector 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 : Data link connector2 : Hood release handle

Refer to "CONSULT-III Operation Manual" for more information.



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# **Function and System Application**

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Diagnostic test mode	Function	ENGINE	TRANSMISSION	AIR BAG	METER/M&A	BCM	ABS	IPDM E/R	MULTI AV	HVAC	AUTO DRIVE POS.*1
Work Support	This mode enables a technician to adjust some devices faster and more accurately.	х	х	-	-	х	х	-	х	х	х
Self Diagnostic Result	Retrieve DTC from ECU and display diagnostic items.	Х	х	х	х	х	х	х	х	Х	х
Data Monitor	Monitor the input/output signal of the control unit in real time.	Х	х	х	х	х	х	х	х	Х	х
CAN Diagnosis	This mode displays a network diagnosis result about CAN by a diagram.	х	х	х	х	х	х	х	х	-	-
CAN Diagnosis Support Monitor	It monitors the status of CAN communication.	х	х	-	х	х	х	х	х	х	х
Active Test	Sends a drive signal from the CONSULT-III to the actuator. The operation check can be performed.	х	-	-	-	х	х	х	-	х	х
DTC & SRT confirmation	The status of system monitoring tests and the self-diagnosis status/ result can be confirmed.	х	-	-	-	-	-	-	-	-	-
ECU Identification	Displays the ECU identification number (part number etc.) of the selected system.	х	х	х	-	х	х	х	х	х	х
Function Test	This mode can show results of self-diagnosis of ECU with either "OK" or "NG". For engine, more practical tests regarding sensors/switches and/or actuators are available.	х	x	х	-	-	х	-	-	-	
Configuration	Function to READ/WRITE vehicle configuration.	-	-	-	-	х	-	-	х	-	
Special Function	Other results or histories, etc. that are recorded in ECU are displayed.	-	х	х	х	-	-	-	-	-	

x: Applicable

# CONSULT-III Data Link Connector (DLC) Circuit

# INSPECTION PROCEDURE

If the CONSULT-III cannot diagnose the system properly, check the following items.

Revision: January 2012 GI-47 2011 Maxima

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<sup>\*1:</sup> With automatic drive positioner

# **CONSULT-III CHECKING SYSTEM**

# < BASIC INSPECTION >

Symptom	Check item
CONSULT-III cannot access any system.	CONSULT-III DLC power supply circuit (Terminal 8) and ground circuit (Terminal 4)
CONSULT-III cannot access in- dividual system. (Other sys- tems can be accessed.)	<ul> <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-III 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-15"><u>LAN-15</u></a>, "Trouble Diagnosis Flow Chart".</li> </ul>

# NOTE:

The DDL2 circuits and CAN communication lines from DLC pins 6, 7 and 14 may be connected to more than one system. A short in a DDL circuit or CAN lines connected to a control unit in one system may affect CON-SULT-III access to other systems. For a complete DDL circuit layout, refer to <a href="GI-49">GI-49</a>, "Wiring Diagram". For a complete CAN line layout, refer to <a href="LAN-28">LAN-28</a>, "Wiring Diagram".

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# WIRING DIAGRAM

# CONSULT-III CHECKING SYSTEM

Wiring Diagram INFOID:0000000006428766 В AV CONTROL UNIT (M163): (NV) C ⟨NX⟩ : EXCEPT MEXICO
⟨XX⟩ : FOR MEXICO 87 0 ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT) (E26) D **\***5 86 A/C AUTO AMP. (M37) Е IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) (E17) TCM (TRANSMISSION CONTROL MODULE) (F15) CAN COMMUNICATION LINE FOR DIAGNOSIS WITH AUTOMATIC DRIVE POSITIONER F DDL2 COMMUNICATION LINE WITH COLOR DISPLAY WITHOUT NAVI STEERING ANGLE SENSOR (M53) BCM (BODY CONTROL MODULE) (M19) WITH NAVI Н DRIVER SEAT CONTROL UNIT (B203): (AD) COMBINATION METER (M24) AIR BAG DIAGNOSIS SENSOR UNIT J K 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 L AIR BAG DIAGNOSIS SENSOR UNIT (M35): < XX 10A BATTERY CONSULT-III CHECKING SYSTEM M IGNITION SWITCH ON OR START 10A Ν ECM(E10) 0 Р ABAWA0063GB