GENERAL INFORMATION

SECTION GI

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CONTENTS

PRECAUTIONS	2
Precautions for Supplemental Restraint	
System "AIR BAG"	2
Precautions for "FULL-ACTIVE SUSPENSION".	2
General Precautions	2
Precautions for Multiport Fuel Injection	
System or ECCS Engine	4
Precautions for Three Way Catalyst	5
Precautions for Fuel	5
HOW TO USE THIS MANUAL	6
HOW TO READ WIRING DIAGRAMS	8
HOW TO FOLLOW FLOW CHART IN TROUBLE	
DIACNOSES	13

CONSULT CHECKING SYSTEM	16
Function and System Application	16
Lithium Battery Replacement	16
Checking Equipment	16
IDENTIFICATION INFORMATION	
Model Variation	17
Identification Number	18
Dimensions	19
Wheels and Tires	19
LIFTING POINTS AND TOW TRUCK TOWING	20
Garage Jack and Safety Stand	20
2-pole Lift	
Tow Truck Towing	
TIGHTENING TORQUE OF STANDARD BOLTS.	
SAE J1930 TERMINOLOGY LIST	24

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



Precautions for Supplemental Restraint System "AIR BAG"

The Supplemental Restraint System "Air Bag" helps to reduce the risk or severity of injury to the driver and front passenger in certain types of frontal collision. The Supplemental Restraint System consists of air bags (located in the center of the steering wheel and on the instrument panel on the passenger side), sensors, ECM, warning lamp, wiring harness and spiral cable. Information necessary to service the system safely is included in the **BF section** of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could lead to personal injury or death in the event of a severe frontal collision, all maintenance must be performed by an authorized INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system.
- All SRS electrical wiring harnesses and connectors are covered with yellow outer insulation. Do not use electrical test equipment on any circuit related to the SRS "Air Bag".

Precautions for "FULL-ACTIVE SUSPENSION"

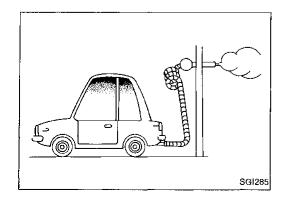
- Do not disconnect battery terminals or remove fuses for approximately 2 minutes after stopping the engine. Doing so may change vehicle height.
- 2. Before raising the vehicle using a jack, wait at least 2 minutes after stopping the engine.
- 3. Do not get under the vehicle when it is raised with only a jack and do not start the engine.
- 4. Before working under the vehicle, raise the four wheels off the ground and properly support the vehicle using rigid racks.

General Precautions

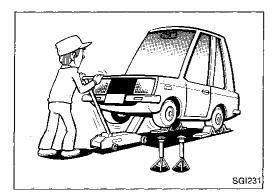
 Do not operate the engine for an extended period of time without proper exhaust ventilation.

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.

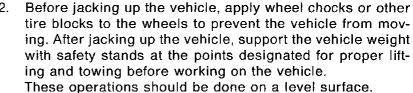
Do not smoke while working on the vehicle.



PRECAUTIONS



General Precautions (Cont'd)



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.

Before starting repairs which do not require battery power, always turn off the ignition switch, then disconnect the ground cable from the battery to prevent accidental short circuit.



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To prevent serious burns, avoid contact with hot metal parts such as the radiator, exhaust manifold, tail pipe and muffler. Do not remove the radiator cap when the engine is hot.



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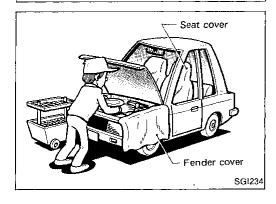
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Before servicing the vehicle, protect fenders, upholstery and carpeting with appropriate covers. Take caution that keys, buckles or buttons on your person do not scratch the paint.

General Precautions (Cont'd)

- 7. Clean all disassembled parts in the designated liquid or solvent prior to inspection or assembly.
- 8. Replace oil seals, gaskets, packings, O-rings, locking washers, cotter pins, self-locking nuts, etc. with new ones.
- 9. Replace inner and outer races of tapered roller bearings and needle bearings as a set.
- 10. 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 ECMs).
 Static electricity may damage internal electronic components.
- 12. After disconnecting vacuum or air hoses, attach a tag to indicate the proper connection.
- 13. Use only the lubricants specified in MA section.
- 14. Use approved bonding agent, sealants or their equivalents when required.
- 15. Use tools and recommended special tools where specified for safe and efficient service repairs.
- 16. When repairing the fuel, oil, water, vacuum or exhaust systems, check all affected lines for leaks.
- 17. Dispose of drained oil or the solvent used for cleaning parts in an appropriate manner.

Precautions for Multiport Fuel Injection System or ECCS Engine

- Before connecting or disconnecting multiport fuel injection system or ECCS harness connector to or from any multiport fuel injection system or ECM (ECCS control module), be sure to turn the ignition switch to the "OFF" position and disconnect the 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 to eliminate danger.
- Be careful not to jar components such as ECM and mass air flow sensor.



Precautions for Three Way Catalyst

If a large amount of unburned fuel flows into the converter, the converter temperature will be excessively high. To prevent this, follow the procedure below:

- 1. Use unleaded gasoline only. Leaded gasoline will seriously damage the three way catalyst.
- 2. When checking for ignition spark or measuring engine compression, make tests quickly and only when necessary.
- 3. Do not run engine when the fuel tank level is low, otherwise the engine may misfire causing damage to the converter.
- 4. Do not place the vehicle on inflammable material. Keep inflammable material off the exhaust pipe.

Precautions for Fuel

To maintain engine and exhaust system durability and performance, UNLEADED PREMIUM gasoline with an octane rating of at least 91 AKI (Research octane number 96) must be used.

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

- The fuel tank should be filled only partially with unleaded regular gasoline, and filled up with premium unleaded gasoline as soon as possible.
- Full throttle driving and abrupt acceleration should be avoided.

Use UNLEADED fuel only. Under no circumstances should leaded gasoline be used. Lead gasoline will damage the three way catalyst and increase dangerous emissions from the vehicle exhaust.

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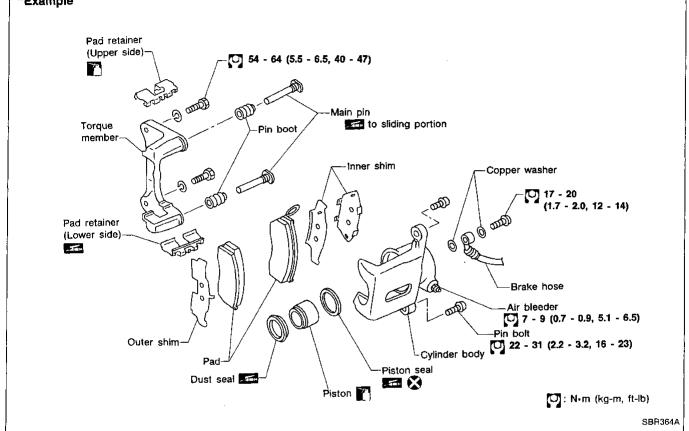
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- 1. A QUICK REFERENCE INDEX, a black tab (e.g. BR) is provided on the first page. You can quickly find the first page of each section by mating it to the section's black tab.
- 2. THE CONTENTS are listed on the first page of each section.
- 3. THE TITLE is indicated on the upper portion of each page and shows the part or system.
- 4. THE PAGE NUMBER of each section consists of two letters which designate the particular section and a number (e.g. "BR-5").
- 5. THE LARGE ILLUSTRATIONS are exploded views (See below.) and contain tightening torques, lubrication points 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. "Example" Pad retainer (Upper side): O 54 - 64 (5.5 - 6.5, 40 - 47) Main pin



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 complicated units such as the automatic transaxle or transmission, etc. are presented in a step-by-step format where necessary.

HOW TO USE THIS MANUAL

P ATF ATF P/S	following SYMBOLS AND ABBREVIATIONS at Tightening torque: Should be lubricated with grease. Unless otherwise indicated, use recommended multi-purpose grease. Should be lubricated with oil. Sealing point: Checking point: Always replace after every disassembly. Apply petroleum jelly. Apply ATF: Select with proper thickness. Adjustment is required. Power steering	SDS : Set SAE : Sct SAE :		GI MA EFC FE
"Exa	alternately expressed in the metric system as mple" ghtening torque:	nd in the yard/p	oound system.	AT Mr
10. SERV	59 - 78 N·m (6.0 - 8.0 kg-m, 43 - 58 ft-lb) UBLE DIAGNOSES are included in sections d ICE DATA AND SPECIFICATIONS are contain			PD
	ta. captions WARNING and CAUTION warn you c y and/or damage to some part of the vehicle.		st be followed to prevent personal	FA
WARI CAUT	NING indicates the possibility of personal injuition indicates the possibility of component do TYPED STATEMENTS except WARNING and	ury if instructior amage if instru	ctions are not followed.	RA
U BOLD	2 111 ED OTATEMENTO except WARRING and	. One flow give	o you noipiui imormation.	BR
				Sī

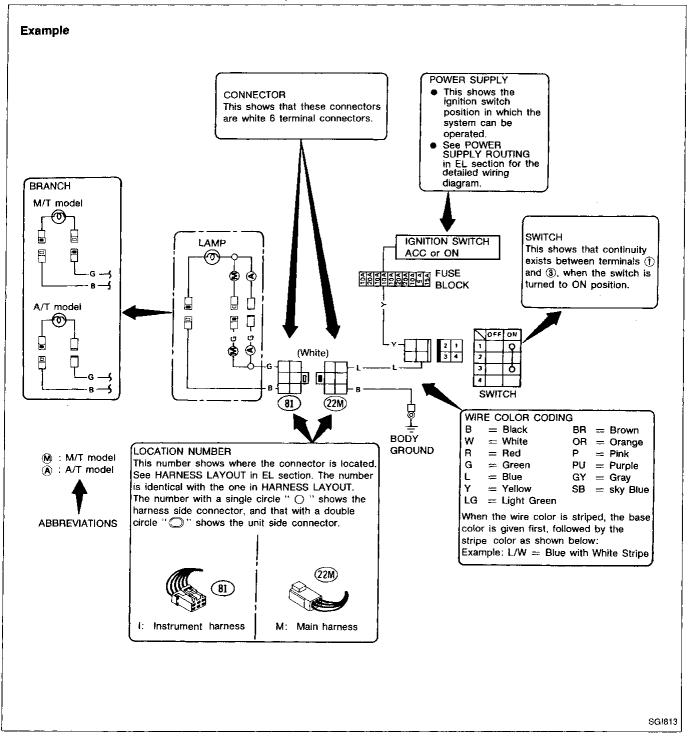
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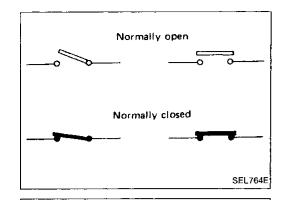
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WIRING DIAGRAM

Symbols used in WIRING DIAGRAM are shown below:



HOW TO READ WIRING DIAGRAMS



Example

Connector symbol

SWITCH POSITIONS

Wiring diagram switches are shown with the vehicle in the following condition.

- Ignition switch "OFF".
- Doors, hood and trunk lid/back door closed.
- · Pedals are not depressed and parking brake is released.

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

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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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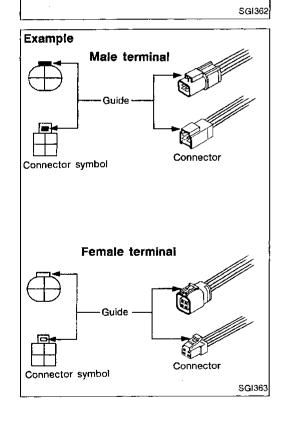
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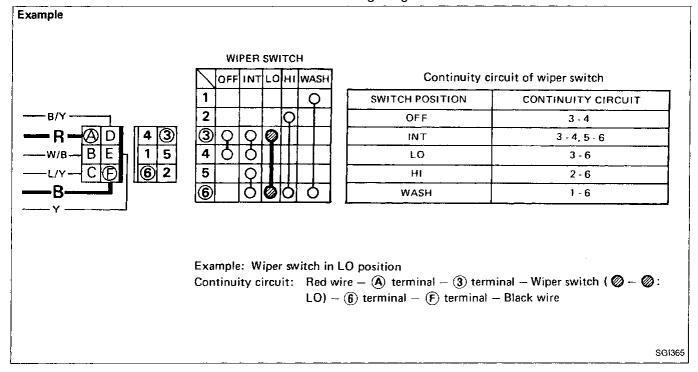


Connector

HOW TO READ WIRING DIAGRAMS

MULTIPLE SWITCH

The continuity of the multiple switch is identified in the switch chart in wiring diagrams.

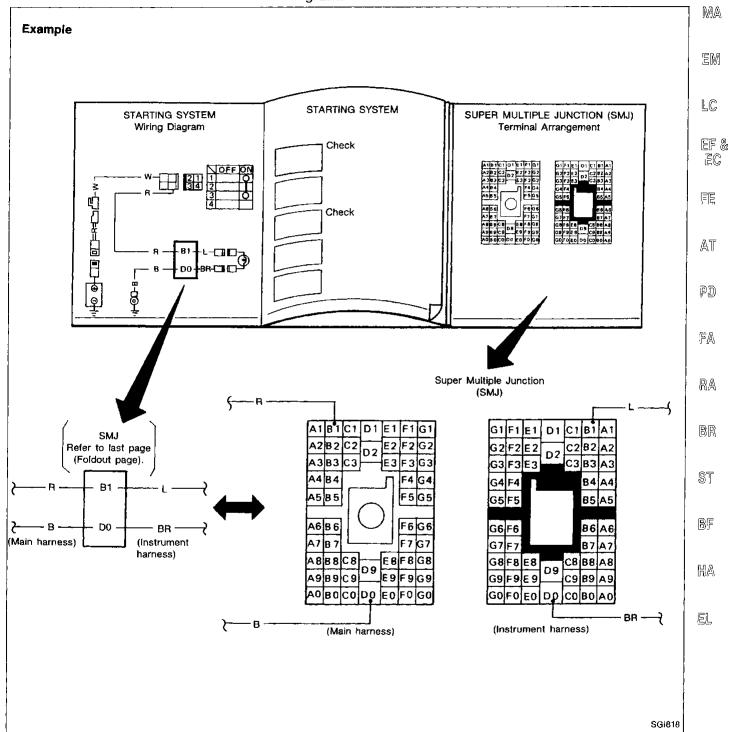


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SUPER MULTIPLE JUNCTION (SMJ)

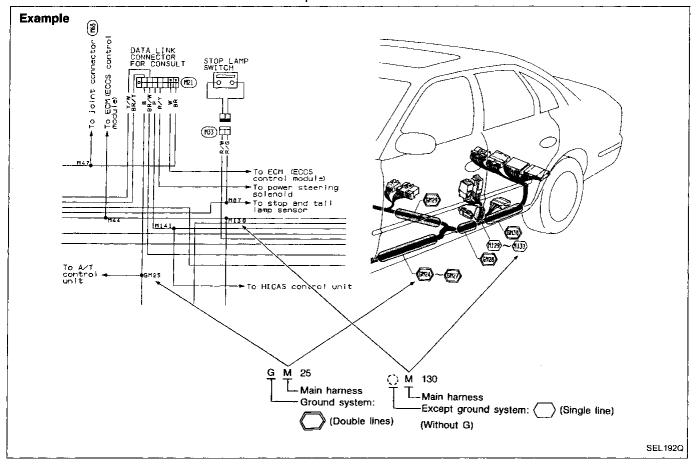
- The "SMJ" indicated in wiring diagrams is shown in a simplified form. The terminal arrangement should therefore be referred to in the foldout at the end of the Service Manual.
- The foldout should be spread to read the entire wiring dia-

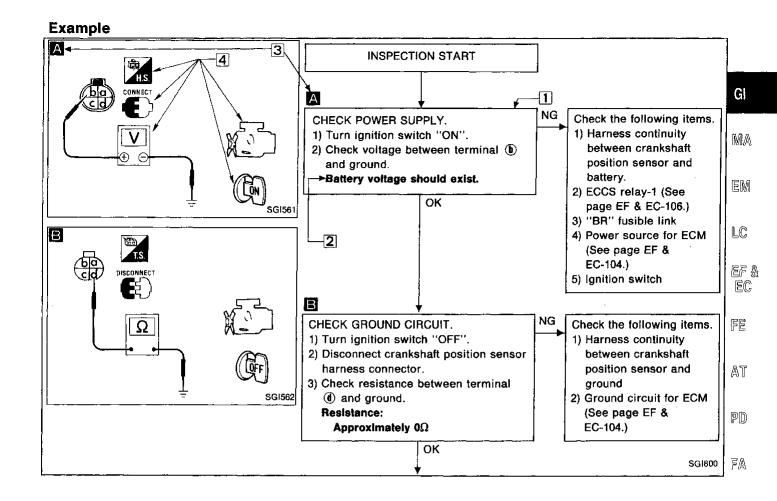


GI-11 17

SPLICE LOCATION

- "GM25", "M130" etc., which are shown in the wiring diagram, refer to wiring harness splice points. These points are located in shaded areas "(112)", "(113)", etc. in illustrations under the title "SPLICE LOCATION".
- Wiring harness splice points are subject to change without prior notice.





NOTICE

The flow chart indicates work procedures required to diagnose problems effectively. Observe the following instructions before diagnosing.

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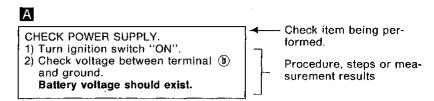
- After repairs, re-check that the problem has been completely eliminated.
- Refer to Component Parts Location and Harness Layout for the Systems described in each section for identification/ location of components and harness connectors.
- 4) Refer to the Circuit Diagram for Quick Pinpoint Check. If you must check circuit continuity between harness connectors in more detail, such as when a sub-harness is used, refer to Wiring Diagram and Harness Layout in EL section for identification of harness connectors.
- When checking circuit continuity, ignition switch should be "OFF".
- Before checking voltage at connectors, check battery voltage.
- After accomplishing the Diagnostic Procedures and Electrical Components Inspection, make sure that all harness connectors are reconnected as they were.

GI-13 19

HOW TO FOLLOW THIS FLOW CHART

Work and diagnostic procedure

Start to diagnose a problem using procedures indicated in enclosed blocks, as shown in the following example.



Measurement results

Required results are indicated in bold type in the corresponding block, as shown below:

These have the following meanings:

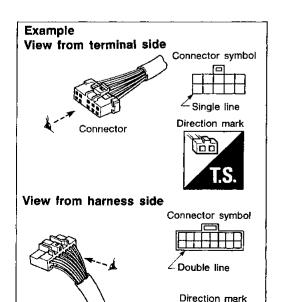
Battery voltage → 11 - 14V or approximately 12V Voltage: Approximately 0V → Less than 1V

3 Cross reference of work symbols in the text and illustrations

Illustrations are provided as visual aids for work procedures. For example, symbol A indicated in the left upper portion of each illustration corresponds with the symbol in the flow chart for easy identification. More precisely, the procedure under the "CHECK POWER SUPPLY" outlined previously is indicated by an illustration A.

Symbols used in illustrations

Symbols included in illustrations refer to measurements or procedures. Before diagnosing a problem, familiarize yourself with each symbol.



Connector

Direction mark

A direction mark is shown to clarify the side of connector (terminal side or harness side).

Direction marks are mainly used in the illustrations indicating terminal inspection.



- : View from terminal side ... TS
- All connector symbols shown from the terminal side are enclosed by a single line.



- View from harness side ... HS
- All connector symbols shown from the harness side are enclosed by a double line.

HOW TO FOLLOW FLOW CHART IN TROUBLE DIAGNOSES

Key to symbols signifying measurements or procedures

Symbol	Symbol explanation	Symbol	Symbol explanation
DISCONNECT	Check after disconnecting the connector to be measured.		Current should be measured with an ammeter.
CONNECT	Check after connecting the connector to be measured.		Procedure with CONSULT
	Insert key into ignition switch.		Procedure without CONSULT
	Remove key from ignition switch.		A/C switch is "OFF".
COFF	Turn ignition switch to "OFF" position.		A/C switch is "ON".
(Con)	Turn ignition switch to "ON" position.	\$ OFF1 2 3 4	Fan switch is "ON". (At any position except for "OFF" position)
	Turn ignition switch to "START" position.	% OFF 1 2 3 4	Fan switch is "OFF".
(GFF*ACC	Turn ignition switch from "OFF" to "ACC" position.	FUSE	Apply positive voltage from battery with fuse directly to components.
(ACC+)OFF	Turn ignition switch from "ACC" to "OFF" position.		Drive vehicle.
(DFF*)ON	Turn ignition switch from "OFF" to "ON" position.	BAT	Disconnect battery negative cable.
(ON+OFF	Turn ignition switch from "ON" to "OFF" position.	(Depress brake pedal.
	Do not start engine, or check with engine stopped.	W	Release brake pedal.
	Start engine, or check with engine run- ning.		Depress accelerator pedal.
	Apply parking brake.	ŽŽ.	Release accelerator pedal.
and the	Release parking brake.	GUNIT CONNECTOR	Pin terminal check for SMJ type ECM, A/T control unit, full-active suspension
: Th	Check after engine is warmed up sufficiently.	OF ECM CONNECTOR	control unit and TCS control unit connectors.
	Voltage should be measured with a voltmeter.	AS DISCONDECT	For details regarding the terminal arrangement, refer to the foldout page
	Circuit resistance should be measured with an ohmmeter.	Ţ	DISCONNECT DISCONNECT

GI-15 21

Function and System Application

Diagnostic test mode	Function	ECCS	A/T	Air bag	HICAS	ASCD	*LAN	ACTIV SUS	TCS
Work support	This mode enables a technician to adjust some devices faster and more accurately by following the indications on CONSULT.	×	_	_	_	_	x	×	x
Self-diagnostic results	Self-diagnostic results can be read and erased quickly.		×	×	×	×	×	×	×
Data monitor	Input/Output data in the ECM can be read.		×	_	×	×	×	×	x
Active test	Diagnostic Test Mode in which CONSULT drives some actuators apart from the ECMs and also shifts some parameters in a specified range.	×		_	×	_	×	×	x
ECM part number	er ECM part number can be read.		×	_	×		X	×	×
Function test	ECCS faults can be isolated to a general area, semi-automatically and in a short time, by following the directions on the screen.	×	_	_					

^{×:} Applicable

Lithium Battery Replacement

CONSULT contains a lithium battery. When replacing the battery obey the following:

WARNING:

Replace the lithium battery with SANYO Electric Co., Ltd., CR2032 only. Use of another battery may present a risk of fire or explosion. The battery may present a fire or chemical burn hazard if mistreated. Do not recharge, disassemble or dispose of in fire.

Keep the battery out of reach of children and discard used battery conforming to the local regulations.

Checking Equipment

When ordering the below equipment, contact your INFINITI distributor.

Tool name	Description
NISSAN CONSULT kit (1) CONSULT unit and accessories (2) Program card (UE930)	The state of the s

^{*}AUTO D/P: Automatic drive positioner system

^{*}LAN: Local Area Network for body electrical system.

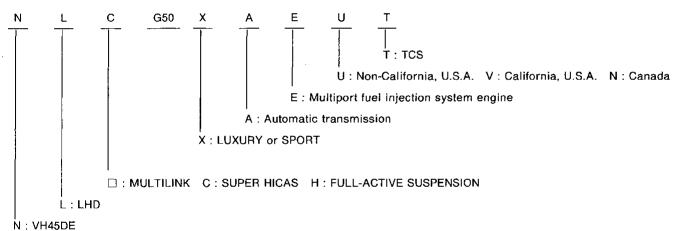
IDENTIFICATION INFORMATION

Model Variation

Body	Destination	Gra	ade	Model	Engine	Transmission	Differential carrier				
				NL-XAEU							
	Mon California		_	NL-XAEUT							
	Non-California	:	T.S.P.	NLC-XAEU		VH45DE RE4R03A F	VHASDE PEADO2A				
			A.S.P.	NLH-XAEU				VILLAS DE LA DOSA			
0-4	· · · · · · · · · · · · · · · · · · ·	,		NL-XAEV) 				DOON		
Sedan	California	Luxury	_	NL-XAEVT	VH45DE		R200V				
	California		T.S.P.	NLC-XAEV							
			A.S.P.	NLH-XAEV							
	04-			NL-XAEN							
	Canada			NL-XAENT							

T.S.P. = Touring Suspension Pack A.S.P. = Active Suspension Pack

Prefix and suffix designations:



: means no indication.

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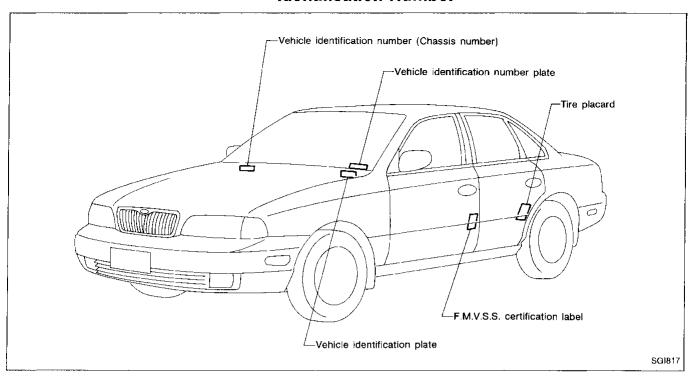
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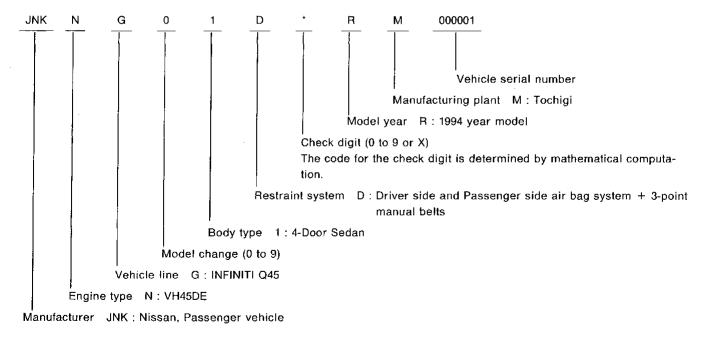
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IDENTIFICATION INFORMATION

Identification Number



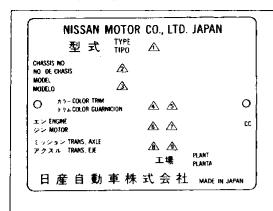
VEHICLE IDENTIFICATION NUMBER ARRANGEMENT



IDENTIFICATION INFORMATION

Identification Number (Cont'd)

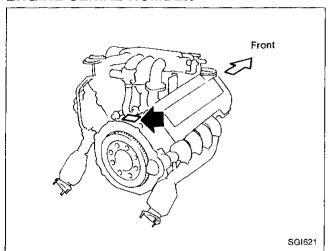
IDENTIFICATION PLATE



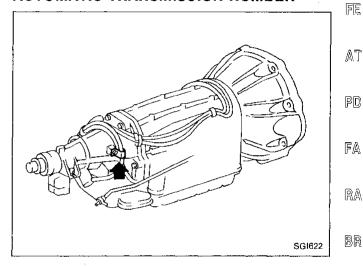
- 1 Type
- 2 Vehicle identification number (Chassis number)
- 3 Model
- 4 Body color code
- Trim color code
- 6 Engine model
- Engine displacement
- Transmission model
- Axle model

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ENGINE SERIAL NUMBER



AUTOMATIC TRANSMISSION NUMBER



Dimensions

Unit: mm (in)

<u> </u>			
	Sedan	Active suspension	_
Overall length	5,075 (199.8)	5,075 (199.8)	
Overan length	5,090 (200.4)*	5,075 (199.6)	
Overall width	1,825 (71.9)	1,825 (71.9)	
Overall height	1,435 (56.5)	1,425 (56.1)	Г
Front tread	1,570 (61.8)	1,570 (61.8)	[
Rear tread	1,570 (61.8)	1,570 (61.8)	
Wheelbase	2,880 (113.4)	2,880 (113.4)	
Wileelbase	2,000 (113.4)	2,000 (113.4)	

^{*}With front and rear license plates installed

Wheels and Tires

		Conventional	Spare (T-type)
Road wheel	Aluminum	15 x 6-1/2JJ	16 x 4T
	Offset mm (in)	45 (1.77)	30 (1.18)
Tire size		P215/65R15 95V	T135/90D16

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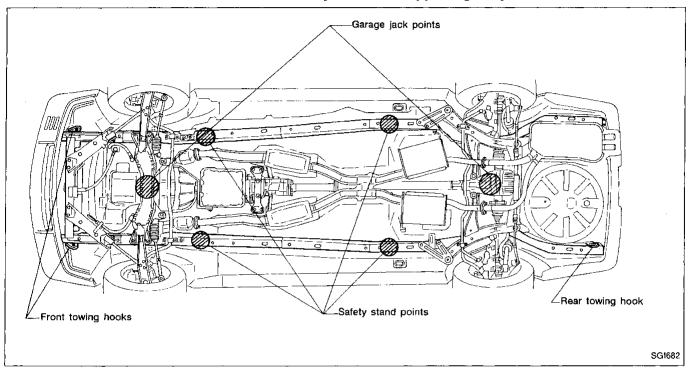
Garage Jack and Safety Stand

WARNING:

- Never get under the vehicle while it is supported only by the jack. Always use safety stands to support the frame when you have to get under the vehicle.
- Place wheel chocks at both front and back of the wheels on the ground.

CAUTION:

Place a wooden or rubber block between safety stand and vehicle body when the supporting body is flat.

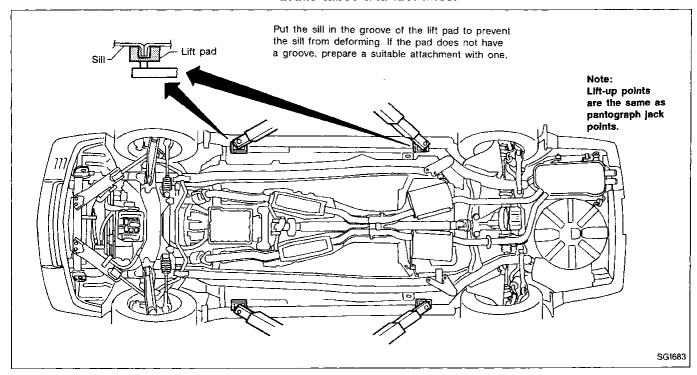


2-pole Lift

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.

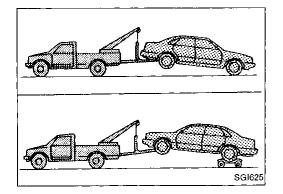
When setting the lift arm, do not allow the arm to contact the brake tubes and fuel lines.



Tow Truck Towing

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.
- When towing with the rear wheels on the ground, release the parking brake and move the shift lever to "N" position.
- Never tow the vehicle from the rear (i.e., backward) with four wheels on the ground as this may cause serious and expensive damage to the transmission.



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

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Tow Truck Towing (Cont'd) TOWING AN AUTOMATIC TRANSMISSION MODEL WITH FOUR WHEELS ON GROUND

Observe the following restricted towing speeds and distances. **Speed:**

Below 50 km/h (30 MPH)

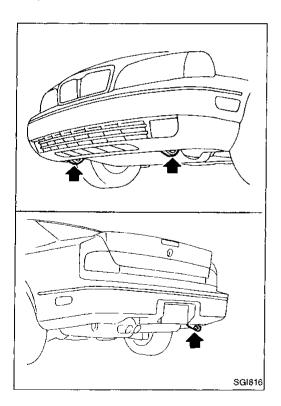
Distance:

Less than 65 km (40 miles)

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

TOWING WITH FRONT WHEELS RAISED (With rear wheels on ground)

 Never tow an automatic transmission model with front wheels raised (with rear wheels on ground) as this may cause serious and expensive damage to the transmission.
 If it is necessary to tow it with front wheels raised, always use a towing dolly under the rear wheels.



TOWING POINT

- Always pull the cable straight out from the vehicle. Never pull on the hook at a sideways angle.
- Use the towing hooks only to free a vehicle stuck in sand, snow, mud, etc. Never tow the vehicle using only the towing hooks.

TIGHTENING TORQUE OF STANDARD BOLTS

		Bolt			Tight	ening torque	(Without lub	ricant)	
Grade	Bolt size	diameter*	Pitch mm	. He	xagon head	bolt	He	xagon flange	bolt
		mm		N-m	kg-m	ft-lb	N·m	kg-m	ft-Ib
	M6	6.0	1.0	5.1	0.52	3.8	6.1	0.62	4.5
	M8	8.0	1.25	13	1.3	9	15	1.5	11
	IVIO	8.0	1.0	13	1.3	9	16	1.6	12
4T	MAG	10.0	1.5	25	2.5	18	29	3.0	22
41	M10	10.0	1.25	25	2.6	19	30	3.1	22
		40.0	1.75	42	4.3	31	51	5.2	38
	M12	12.0	1.25	46	4.7	34	56	5.7	41
	M14	14.0	1.5	74	7.5	54	88	9.0	65
	M6	6.0	1.0	8.4	0.86	6.2	10	1.0	7
	140	0.0	1.25	21	2.1	15	25	2.5	18
	M8	8.0	1.0	22	2.2	16	26	2.7	20
~ T	1440	40.0	1.5	41	4.2	30	48	4.9	35
7T	M10	10.0	1.25	43	4.4	. 32	51	5.2	38
	N440	40.0	1.75	71	7.2	52	84	8.6	62
	M12	12.0	1.25	77	7.9	57	92	9.4	68
	M14	14.0	1.5	127	13.0	94	147	15.0	108
	M6	6.0	1.0	12	1.2	9	15	1.5	11
			1.25	29	3.0	22	35	3.6	26
	M8	8.0	1.0	31	3.2	23	37	3.8	27
		40.0	1.5	59	6.0	43	70	7.1	51
9T	M10	10.0	1.25	62	6.3	46	74	7.5	54
		40.0	1.75	98	10.0	72	118	12.0	87
	M12	12.0	1.25	108	11.0	80	137	14.0	101
	M14	14.0	1.5	177	18.0	130	206	21.0	152

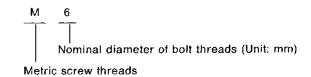
1. Special parts are excluded.

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

Grade	Mark
4T	4
7T	7
OT	a

*: Nominal diameter

GI-23



GI

MA

EM

LC

ef & ec

FE

AT

PD

FA

RA

BR

ST

B)Z

HΑ

SAE J1930 Terminology List

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

***: Not applicable

NEW TERM	NEW ACRONYM /	OLD TERM
	ABBREVIATION	
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
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	СКР	***
Crankshaft position sensor	CKPS	***
Data link connector	DLC	***
Data link connector for CONSULT	DLC for CONSULT	Diagnostic connector for CONSULT
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 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 system	EVAP system	Evaporative emission control system
Exhaust gas recirculation valve	EGR valve	EGR valve

SAE J1930 TERMINOLOGY LIST

SAE J1930 Terminology List (Cont'd)

***: Not applicable

	***: Not applicable		
NEW TERM	NEW ACRONYM / ABBREVIATION	OLD TERM	
Exhaust gas recirculation control -BPT valve	EGRC-BPT valve	BPT valve	
Exhaust gas recirculation control -solenoid valve	EGRC-solenoid valve	EGR control solenoid valve	Gl
Exhaust gas recirculation temperature sensor	EGR temperature sensor	Exhaust gas temperature sensor	MA
Flash electrically erasable programmable read only memory	FEEPROM	***	ena
Flash erasable programmable read only memory	FEPROM	***	EM
Flexible fuel sensor	FFS	***	LC
Flexible fuel system	FF system	***	
Heated oxygen sensor	HO2S	Exhaust gas sensor	
Idle air control system	IAC system	Idle speed control	EC
Idle air control valve-air regulator	IACV-air regulator	Air regulator	FE
Idle air control valve-auxiliary air control valve	IACV-AAC valve	Auxiliary air control(AAC) valve	4 122
Idle air control valve-FICD solenoid valve	IACV-FICD solenoid valve	FICD solenoid valve	AT
Idle air control valve-idle up control solenoid valve	IACV-idle up control sole- noid valve	Idle up control solenoid valve	PD
Idle speed control-FI pot	ISC-FI pot	FI pot	
Idle speed control system	ISC system	***	FA
Ignition control module	ICM	***	.µ
Indirect fuel injection system	IFI system	***	ED W
Intake air temperature sensor	IATS	Air temperature sensor	RA
Knock	***	Detonation	
Knock sensor	KS	Detonation sensor	BR
Malfunction indicator lamp	MIL	Check engine light	
Manifold absolute pressure	МАР	***	ST
Manifold absolute pressure sensor	MAPS	***	
Manifold differential pressure	MDP	***	BF
Manifold differential pressure sensor	MDPS	***	
Manifold surface temperature	MST	***	HA
Manifold surface temperature sensor	MSTS	***	
Manifold vacuum zone	MVZ	***	
Manifold vacuum zone sensor	MVZS	***	IS IS
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	
Neutral position switch	***	Neutral switch	
Non-volatile random access memory	NVRAM	***	
On-board diagnostic system	OBD system	Self-diagnosis	
Open loop	OL	Open loop	
Oxidation catalyst	ос	Catalyst	

GI-25 31

SAE J1930 TERMINOLOGY LIST

SAE J1930 Terminology List (Cont'd)

***: Not applicable

NEW TERM	NEW ACRONYM / ABBREVIATION	OLD TERM
Oxidation catalytic converter system	OC system	. 549
Oxygen sensor	028	Exhaust gas sensor
Park position switch	***	Park switch
Park/neutral position switch	PNP switch	Park/neutral switch
Periodic trap oxidizer system	PTOX system	***
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	4.2
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 sys- em	TWC + OC system	***
Throttle body	тв	Throttle chamber
		SPI body
Throttle body fuel injection system	TBI system	Fuel injection control
hrottle position	TP	Throttle position
hrottle position sensor	TPS	Throttle sensor
hrottle position switch	TP switch	Throttle switch
Torque converter clutch solenoid valve	TCC solenoid valve	Lock-up cancel solenoid
		Lock-up solenoid
urbocharger	тс	Turbocharger
/ehicle speed sensor	vss	Vehicle speed sensor
/olume air flow sensor	VAFS	Air flow meter

SAE J1930 TERMINOLOGY LIST

SAE J1930 Terminology List (Cont'd)

***: Not applicable

NEW TERM	NEW ACRONYM / ABBREVIATION	OLD TERM
Warm up oxidation catalyst	wu-oc	Catalyst
Warm up oxidation catalytic converter system	WU-OC system	***
Warm up three-way catalyst	WU-TWC	Catalyst
Warm up three-way catalytic converter system	WU-TWC system	***
Wide open throttle position switch	WOTP switch	Full switch

GI

MA

EM

LC

EF & EC

FE

AT

PD

FA

RA

ST

BF

HA

EL