	QUICK REFERENCE INDEX	
	GENERAL INFORMATION	GI
	MAINTENANCE -	MA
	ENGINE MECHANICAL	EM
	ENGINE LUBRICATION & COOLING SYSTEMS —	LC
	ENGINE FUEL & EMISSION CONTROL SYSTEM —	EF & EC
	ACCELERATOR CONTROL, FUEL &EXHAUST SYSTEMS	FE
	AUTOMATIC TRANSMISSION —	AT
INFINITI	PROPELLER SHAFT & DIFFERENTIAL CARRIER —	PD
J30	FRONT AXLE & FRONT SUSPENSION —	FA
MODEL Y32 SERIES	REAR AXLE & REAR SUSPENSION —	RA
	BRAKE SYSTEM	BR
	STEERING SYSTEM —	ST
	BODY	BF
	HEATER & AIR CONDITIONER	НА
	ELECTRICAL SYSTEM	EL

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FOREWORD

This manual contains maintenance and repair procedures for the 1993 INFINITI J30.

In order to assure your safety and the efficient functioning of the vehicle, this manual should be read thoroughly. It is especially important that the PRECAUTIONS in the GI section be completely understood before starting any repair task.

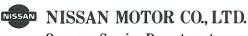
All information in this manual is based on the latest product information at the time of publication. The right is reserved to make changes in specifications and methods at any time without notice.

IMPORTANT SAFETY NOTICE

The proper performance of service is essential for both the safety of the technician and the efficient functioning of the vehicle.

The service methods in this Service Manual are described in such a manner that the service may be performed safely and accurately. Service varies with the procedures used, the skills of the technician and the tools and parts available. Accordingly, anyone using service procedures, tools or parts which are not specifically recommended by INFINITI must first completely satisfy himself that neither his safety nor the vehicle's safety will be jeopardized by the service method selected.





Overseas Service Department Tokyo, Japan

GENERAL INFORMATION

SECTION G

GI

CONTENTS

PRECAUTIONS	GI-	2
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Observe the following precautions to ensure safe and proper servicing. These precautions are not described in each individual section.



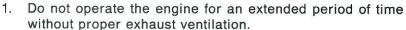
Precautions for Supplemental Restraint System "AIR BAG"

This model has a Supplemental Restraint System "Air Bag". It helps to reduce the risk or severity of injury to the driver and the 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, a 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".

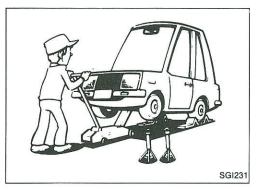




Keep the work area well ventilated and free of any inflammable materials. Special care should be taken when handling any inflammable or poisonous materials, such as gasoline, refrigerant gas, etc. When working in a pit or other enclosed area, be sure to properly ventilate the area before working with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

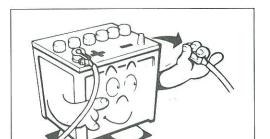
Do not smoke while working on the vehicle.





- 2. 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 and towing before working on the vehicle.
 - These operations should be done on a level surface.
- 3. 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.

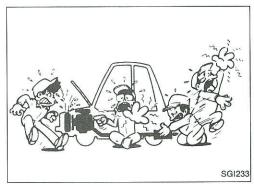
PRECAUTIONS



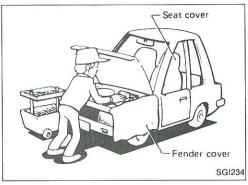
SG1232

General Precautions (Cont'd)

 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.



 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.



 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.

- 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 electronic control module).
 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 E.C.C.S. Engine

- Before connecting or disconnecting multiport fuel injection system or E.C.C.S. 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 catalytic converter.
- 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.

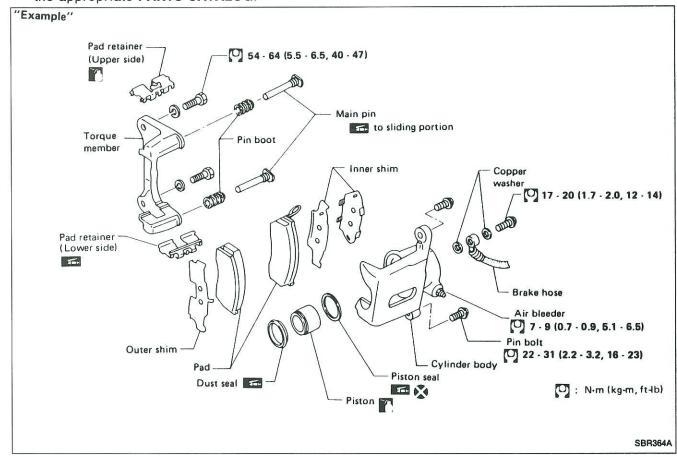
If premium unleaded gasoline is not available, REGULAR UNLEADED gasoline with an octane rating of 87 AKI (Research octane number 91) may be used temporarily, but only under the following conditions:

- 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 catalytic converter and increase dangerous emissions from the vehicle exhaust.

HOW TO USE THIS MANUAL

- 1. A QUICK REFERENCE INDEX, a black tab (e.g. ER) 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.



6. **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

7. The following SYMBOLS AND ABBREVIATIONS are used:

: Tightening torque : Should be lubricated with grease	. ettiti, et materiotive Enginoero,
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 A.T.F. Select with proper thickness. Adjustment is required. S.D.S.: Service Data and Specifications L.H., R.H.: Left-Hand, Right-Hand FR, RR: Front, Rear A/T: Automatic Transaxle/Transmission	Inc. Tool : Special Service Tools A.T.F. : Automatic Transmission Fluid D ₁ : Drive range 1st gear D ₂ : Drive range 2nd gear D ₃ : Drive range 3rd gear D ₄ : Drive range 4th gear O.D. : Overdrive 2 ₂ : 2nd range 2nd gear 2 ₁ : 2nd range 1st gear 1 ₂ : 1st range 2nd gear 1 ₁ : 1st range 1st gear 1 ₃ : 3rd range 3rd gear 3 ₂ : 3rd range 2nd gear
A/C : Air Conditioner	3 ₁ : 3rd range 1st gear

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

"Example"

Tightening torque:

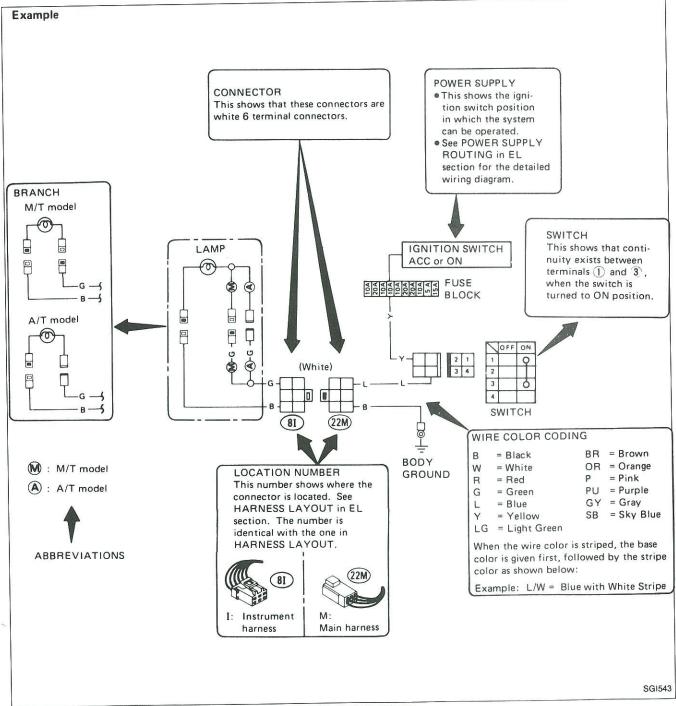
59 - 78 N·m (6.0 - 8.0 kg-m, 43 - 58 ft-lb)

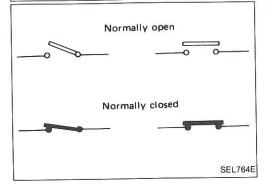
- 9. TROUBLE DIAGNOSES are included in sections dealing with complicated components.
- SERVICE DATA AND SPECIFICATIONS are contained at the end of each section for quick reference of data.
- 11. The captions **WARNING** and **CAUTION** warn you of steps that must be followed to prevent personal injury 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.

HOW TO READ WIRING DIAGRAMS

WIRING DIAGRAM

Symbols used in WIRING DIAGRAM are shown below:



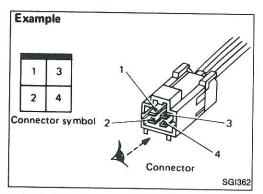


SWITCH POSITIONS

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

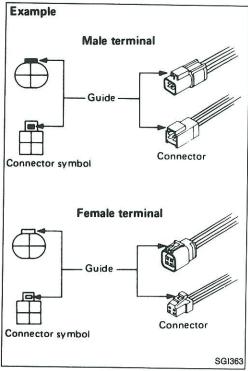
- Ignition switch "OFF".
- Doors, hood and trunk lid/back door closed.
- Pedals are not depressed and parking brake is released.

HOW TO READ WIRING DIAGRAMS



CONNECTOR SYMBOLS

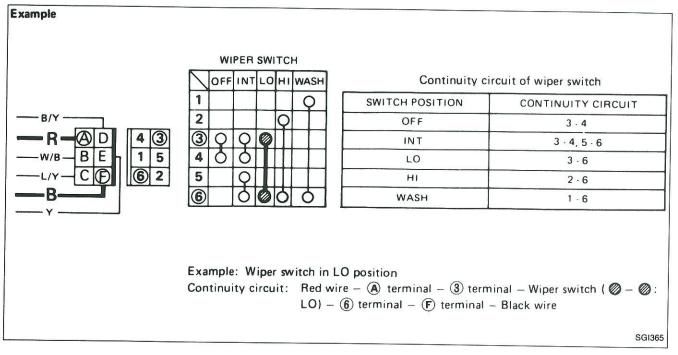
 All connector symbols in wiring diagrams are shown from the terminal side.



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

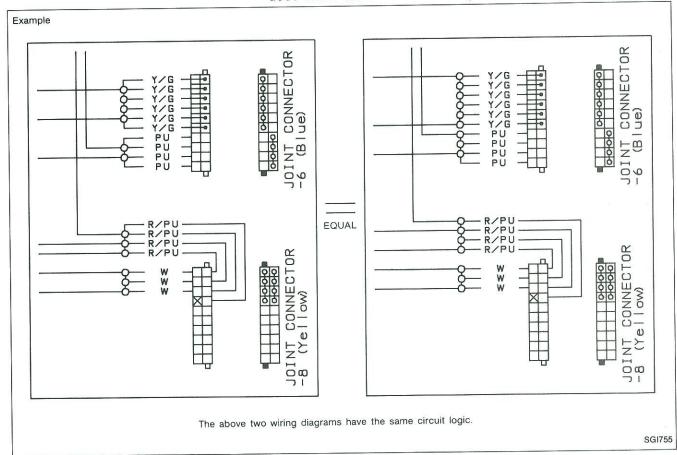
MULTIPLE SWITCH

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



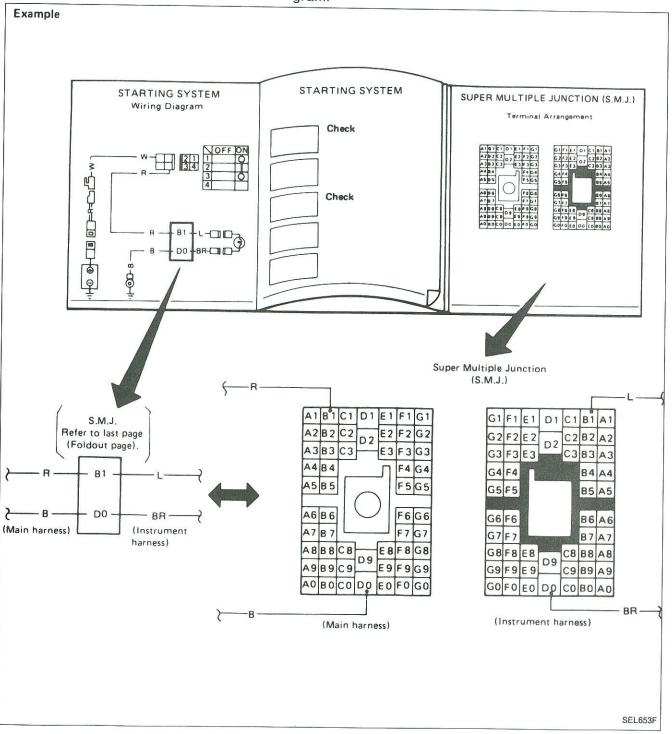
JOINT CONNECTORS

Wires of the same color are grouped at random in the connector. They are grouped together and connected to the pins of similar groups in no set order. (In other words, the location of each particular connection is random.) Therefore, the locations of connections shown in the circuit diagram in the manual should be served only as a reference. The actual locations of the connections in the vehicle may be different. The manual does show the actual circuit logic.

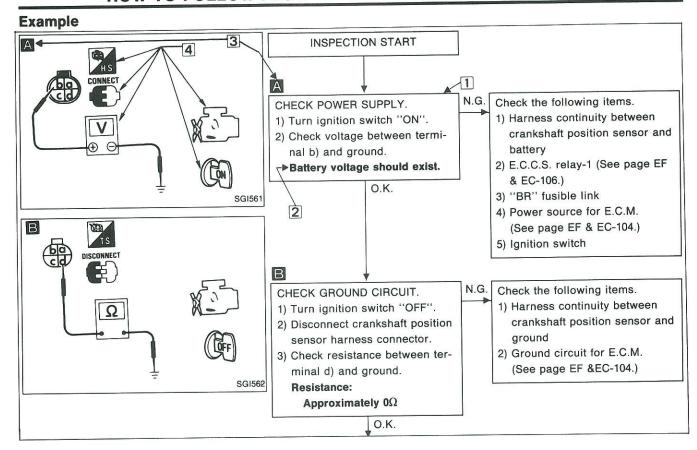


SUPER MULTIPLE JUNCTION (S.M.J.)

- The "S.M.J." 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 diagram.



HOW TO FOLLOW FLOW CHART IN TROUBLE DIAGNOSES



NOTICE

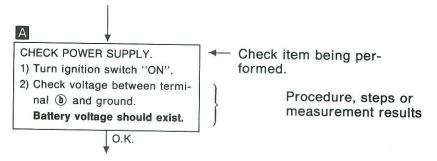
The flow chart indicates work procedures required to diagnose problems effectively. Observe the following instructions before diagnosing.

- 1) Use the flow chart after locating probable causes of a problem following the "Preliminary Check" or the "Symptom Chart".
- 2) 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.
- 5) When checking circuit continuity, ignition switch should be "OFF".
- 6) Before checking voltage at connectors, check battery voltage.
- 7) After accomplishing the Diagnostic Procedures and Electrical Components Inspection, make sure that all harness connectors are reconnected as they were.

HOW TO FOLLOW THIS FLOW CHART

1 Work and diagnostic procedure

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



2 Measurement results

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

These have the following meanings:

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

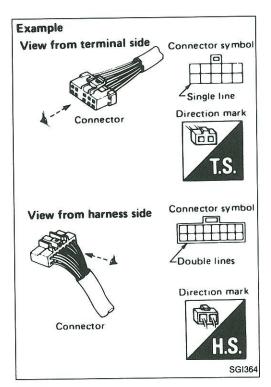
3 Cross reference of work symbols in the text and illustrations

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

4 Symbols used in illustrations

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

HOW TO FOLLOW FLOW CHART IN TROUBLE DIAGNOSES



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 ... T.S.

 All connector symbols shown from the terminal side are enclosed by a single line.



: View from harness side ... H.S.

 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	Π	Symbol	0-1-1-1-1
DESCRIMENT	Check after disconnecting the connector to be measured.		Symbol	Symbol explanation Current should be measured with an
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"
(TFF)	Turn ignition switch to "OFF" position.		(ACC)	A/C switch is "ON".
	Turn ignition switch to "ON" position.		8 OFF 1 2 3 4	Fan switch is "ON". (At any position except for "OFF" position)
(Ci)	Turn ignition switch to "START" position.		1 2 3 4	Fan switch is "OFF".
(IFF FORCE	Turn ignition switch from "OFF" to "ACC" position.		BAT	Apply battery voltage directly to components.
(Toologe F	Turn ignition switch from "ACC" to "OFF" position.			Drive vehicle.
(From	Turn ignition switch from "OFF" to "ON" position.		BAT	Disconnect battery negative cable.
Cons FF	Turn ignition switch from "ON" to "OFF" position.			Depress brake pedal.
	Do not start engine, or check with engine stopped.			Release brake pedal.
	Start engine, or check with engine running.			Depress accelerator pedal.
4	Apply parking brake.			Release accelerator pedal.
*	Release parking brake.			Pin terminal check for S.M.J. type control unit and A/T control unit
сФн	Check after engine is warmed up sufficiently.			connectors. For details regarding the terminal arrangement, refer to the foldout
UV.	Voltage should be measured with a voltmeter.		CANIT O CONNECTOR	page.
	Circuit resistance should be measured with an ohmmeter.		Į.	

System Application and Function

Diagnostic test mode	Function	E.C.C.S.	A/T	Air bag	
Work support	This mode enables a technician to adjust some devices faster and more accurately by following the indications on CONSULT.	х —		_	
Self-diagnostic results	Self-diagnostic results can be read and erased quickly.	х	Х	Х	
Data monitor	Input/Output data in the ECM can be read.	X	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.	Х		_	
E.C.M. part number	E.C.M. part number can be read.	X	X	_	
Function test	E.C.C.S. faults can be isolated to a general area, semi- automatically and in a short time, by following the directions on the screen.	Х			

X: 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 of 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.

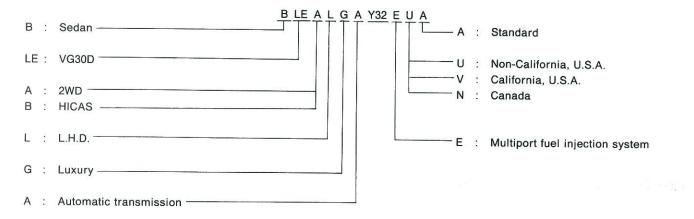
Tool name	Description
NISSAN CONSULT kit ① CONSULT unit and accessories ② Program card (UE 920) ③ Operation manuals ④ Binder ⑤ Carrying case ⑥ Thermal paper (Rolls)	To the state of th

IDENTIFICATION INFORMATION

Model Variation

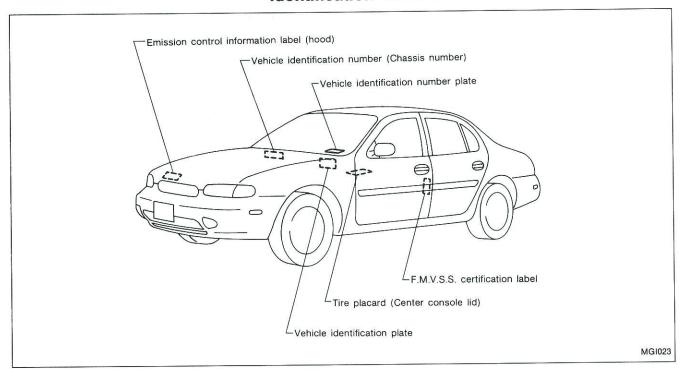
Body	Destination	Grade	Model	Engine	Transmission	Differential carrier
Non-California California Canada	Non California		BLEALGA-EUA		RE4R01A	R200V
	Non-Oamornia		BLEBLGA-EUA			
	California	1	BLEALGA-EVA			
	Odmorma	Luxury	BLEBLGA-EVA	VG30DE		
	Canada		BLEALGA-ENA			
			BLEBLGA-ENA	7		

Prefix and suffix designations:

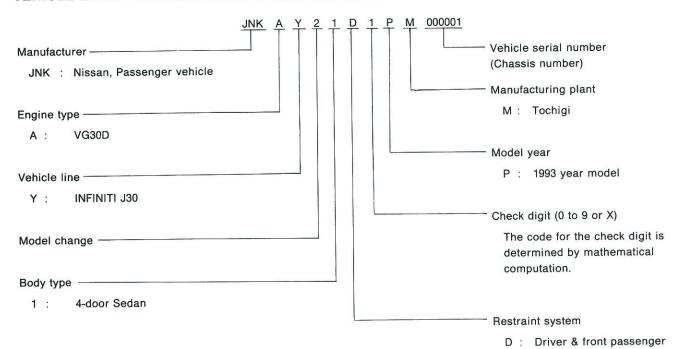


IDENTIFICATION INFORMATION

Identification Number



VEHICLE IDENTIFICATION NUMBER ARRANGEMENT

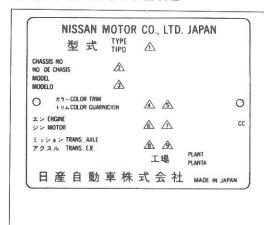


air bag system

Nissan Infiniti J30 1993 Factory Shop Manual IFICATION INFORMATION

Full download: http://manualplace.com/download/ntssan_urintd-30_1993_factor_short_download/ntssan_urintd-30_19

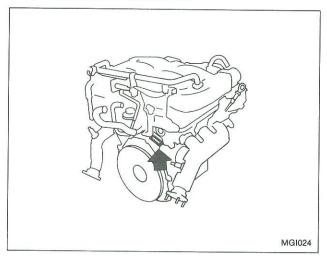
IDENTIFICATION PLATE



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

SGI315

ENGINE SERIAL NUMBER



AUTOMATIC TRANSMISSION NUMBER

