	QUICK REFERENCE INDEX	
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	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
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MODEL F31 SERIES	REAR AXLE & REAR SUSPENSION ————	RA
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FOREWORD

This manual contains maintenance and repair procedures for the 1992 INFINITI M30.

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.





Tokyo, Japan

GI

GENERAL INFORMATION



CONTENTS

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TIGHTENING TORQUE OF STANDARD BOLTS		

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

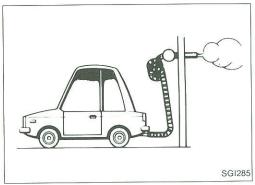


Precautions for Supplemental Restraint System "AIR BAG"

The Supplemental Restraint System "Air Bag" helps to reduce the risk or severity of injury to the driver in a frontal collision. The Supplemental Restraint System consists of an air bag (located in the center of the steering wheel), sensors, a control unit, 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".

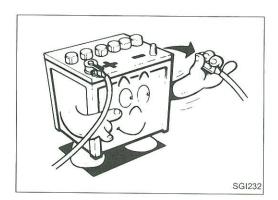


SGI231

General Precautions

- 1. 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.
- 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

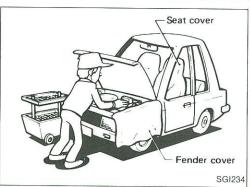


General Precautions (Cont'd)

 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.

- 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.
- 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 units). 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 E.F.I. or E.C.C.S. Engine

- Before connecting or disconnecting E.F.I. or E.C.C.S. harness connector to or from any E.F.I. or E.C.C.S. control unit, be sure to turn the ignition switch to the "OFF" position and disconnect the negative battery terminal.
 - Otherwise, there may be damage to control unit.
- 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 control unit and air flow meter.

Precautions for 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.
- 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.

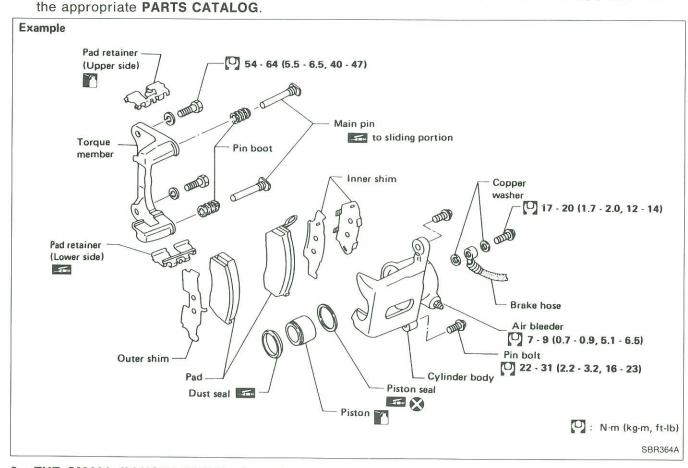
Precautions for Fuel

Use unleaded gasoline with an octane rating of at least 87 AKI (Anti-Knock Index) number (research octane number 91). For improved vehicle performance, the use of unleaded gasoline with an octane rating of at least 91 AKI number (RON 96) is recommended.

CAUTION:

Do not use leaded gasoline. Using leaded gasoline will damage the catalytic converter.

- 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").
- 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



- 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.
- 7. The following SYMBOLS AND ABBREVIATIONS are used:

(4)	;	Tightening torque	S.D.S.
-T=H	:	Should be lubricated with grease. Un-	L.H.
		less otherwise indicated, use recom-	A/T
-		mended multi-purpose grease.	Tool
	:	Should be lubricated with oil.	
		Sealing point	A.T.F.
00	:	Checking point	D_1
X		Always replace after every disassem-	D_2
		bly.	D_3
- P	:	Apply petroleum jelly.	D_4
(ATF)	:	Apply A.T.F.	0 D

Select with proper thickness.

: Adjustment is required.

: Service Data and Specifications

: Automatic Transmission Fluid

: Special Service Tools

Drive range 1st gearDrive range 2nd gearDrive range 3rd gear

: Automatic Transaxle/Transmission

HOW TO USE THIS MANUAL

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"

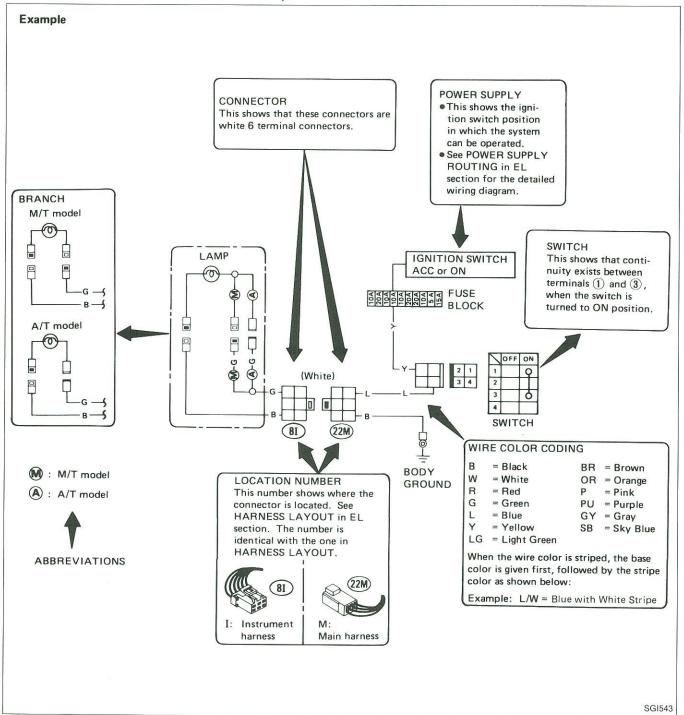
Tightening torque:

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

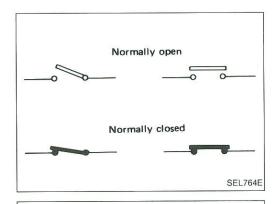
- 9. TROUBLE DIAGNOSES are included in sections dealing with complicated components.
- 10. **SERVICE DATA AND SPECIFICATIONS** are contained at the end of each section for quick reference of data.
- 11. The captions **WARNING** and **CAUTION** warn you of steps that must be followed to prevent personal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

WIRING DIAGRAM

Symbols used in WIRING DIAGRAM are shown below:



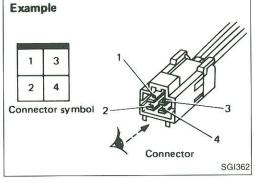
HOW TO READ WIRING DIAGRAMS



SWITCH POSITIONS

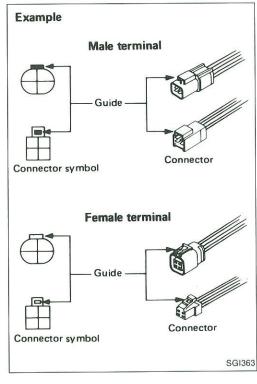
Wiring diagram switches are shown with the vehicle in the following condition.

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



CONNECTOR SYMBOLS

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

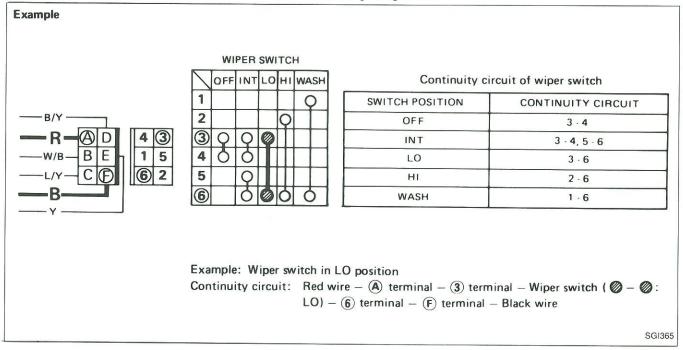


 Male and female terminals
 Connector guides for male terminals are shown in black and female terminals in white in wiring diagrams.

HOW TO READ WIRING DIAGRAMS

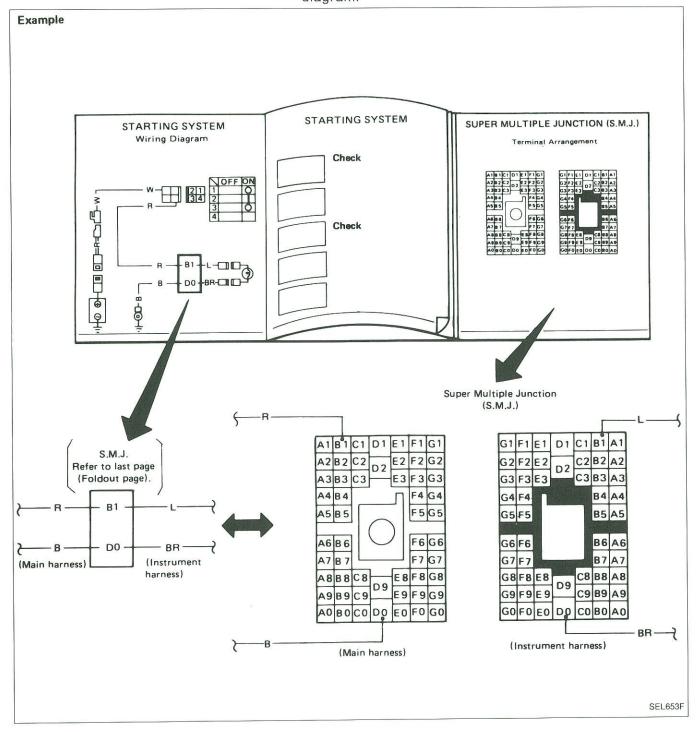
MULTIPLE SWITCH

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

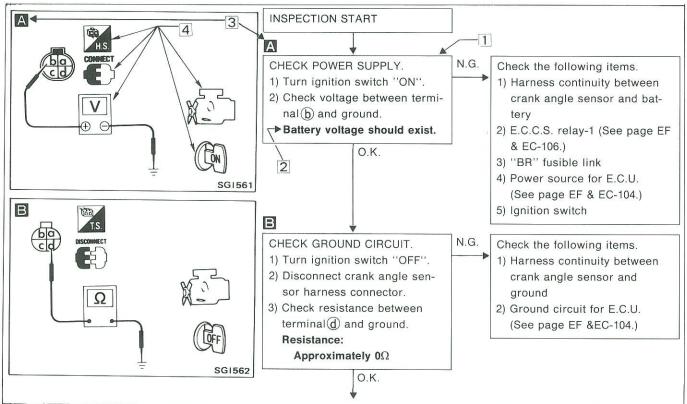


SUPER MULTIPLE JUNCTION (S.M.J.)

- 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.



Example



NOTICE

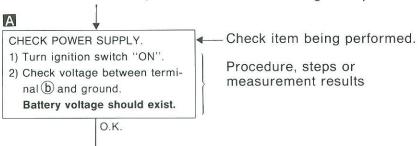
The flow chart indicates work procedures required to diagnose problems effectively. Observe the following instructions before diagnosing.

- 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.
- 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.

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.



2 Measurement results

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

These have the following meanings:

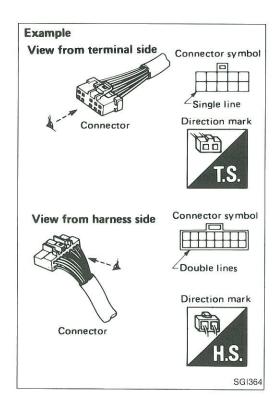
Battery voltage \rightarrow 11 - 14V or approximately 12V Voltage: Approximately 0V \rightarrow Less than 1V

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.



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.

Key to symbols signifying measurements or procedures

Symbol	Symbol explanation	Symbol	Symbol explanation
DISCONNECT	Check after disconnecting the connector to be measured.	A	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)	A/C switch is "OFF".
(GFF)	Turn ignition switch to "OFF" position.	A/C	A/C switch is "ON".
CON	Turn ignition switch to "ON" position.	\$ OFF 2 3 4	Fan switch is "ON". (At any position except for "OFF" position)
(\$1)	Turn ignition switch to "START" position.	# OFF 1 2 3 4	Fan switch is "OFF".
OFF•ACC	Turn ignition switch from "OFF" to "ACC" position.	BAT	Apply battery voltage directly to components.
(ACO)OFF	Turn ignition switch from "ACC" to "OFF" position.		Drive vehicle.
(UFF)ON	Turn ignition switch from "OFF" to "ON" position.	BAT	Disconnect battery negative cable.
(DN+OFF	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.
65	Apply parking brake.		Release accelerator pedal.
	Release parking brake.	CANIT O CONNECTOR	Pin terminal check for S.M.J. type E.C.U. and A/T control unit connectors.
с	Check after engine is warmed up sufficiently.		For details regarding the terminal arrangement, refer to the foldout page.
V	Voltage should be measured with a voltmeter.		
	Circuit resistance should be measured with an ohmmeter.		(-3

CONSULT CHECKING SYSTEM

System Application and Function

Diagnostic 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.	and X X t can be X X me actundalso		
Data monitor	Input/Output data in the control unit can be read.	Х	х	_
Active test	Mode in which CONSULT drives some actuators apart from the control units and also shifts some parameters in a specified range.	Х	_	_
E.C.U. part number	E.C.U. part number can be read.	Х	Х	_
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

Checking Equipment

When ordering the below equipment, contact your INFINITI distributor.

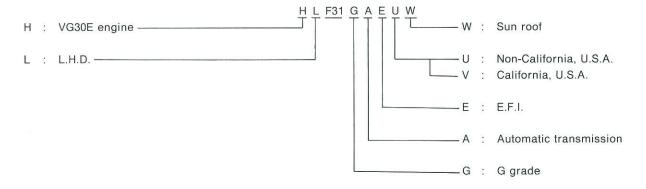
Tool name	Description		
NISSAN CONSULT kit 1 CONSULT unit and accessories 2 Program card (UE 900) 3 Operation manuals 4 Binder 5 Carrying case 6 Thermal paper (Rolls)		3 3 4	(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c

IDENTIFICATION INFORMATION

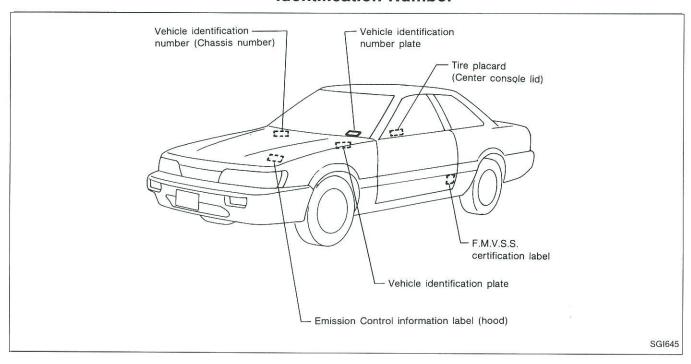
Model Variation

Body	Destination	Grade	Model	Engine	Transmission	Differential carrier	Road wheel size offset mm (in)	Tire size
Coupe	Non- California	Base	HL-GAEU	- VG30E	RE4R01A R200	Dooo	6-1/2JJ x 15 25 (0.98)	P215/60R15 93H
		STD	HL-GAEUW					
	California	Base	HL-GAEV			H200		
		STD	HL-GAEVW					

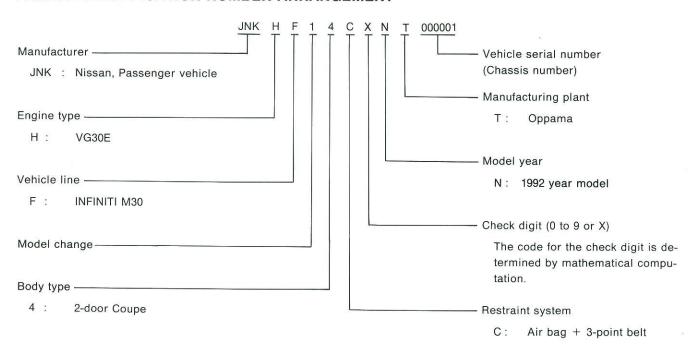
Prefix and suffix designations:



Identification Number

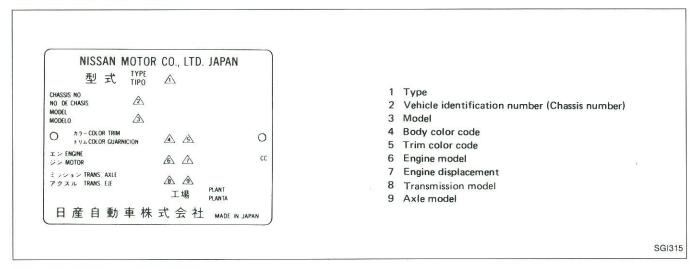


VEHICLE IDENTIFICATION NUMBER ARRANGEMENT

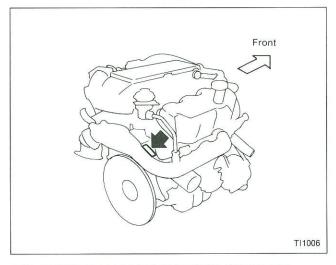


Identification Number (Cont'd)

IDENTIFICATION PLATE



ENGINE SERIAL NUMBER



AUTOMATIC TRANSMISSION NUMBER

