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G20

MODEL PIO SERIES

FOREMONI

This supplement contains information concerning necessary service procedures and relevant data for the 1993.5 G20 vehicle.

All information, illustrations and specifications contained in this supplement are based on the latest product information available at the time of publication. If your INFINITI model differs from the specifications contained in this supplement, consult your INFINITI distributor for information.

The right is reserved to make changes in specifications and methods at any time without notice.



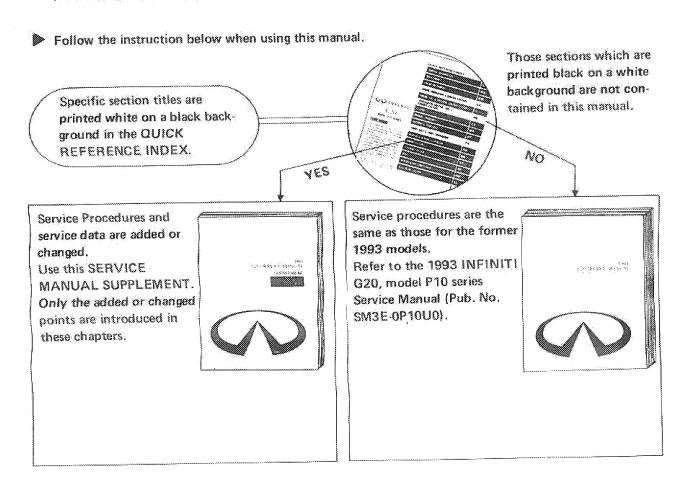
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HOW TO USE THIS MANUAL

- This Service Manual contains the new service procedures, service data and specifications for the 1993 INFINITI G20, model P10 series face-lift.
- This Service Manual does not contain the service procedures, etc. which are the same as those for the former 1993 models.

Please use this manual in conjunction with the 1993 INFINITI G20, model P10 series Service Manual (Pub. No. SM3E-0P10U0).



IMPORTANT SAFETY NOTICE

The proper performance of service is essential for both the safety of the mechanic 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 mechanic 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.

GENERAL INFORMATION





STARTING IDENTIFICATION NUMBER:

Oppama plant JNKCP01D*PT 450021

OUTLINE OF MODIFICATIONS:

Body

SRS air bags have been adopted on both the driver and passenger sides.

Seal

Front power support seats have been introduced.

Automatic transaxle

An electronically controlled type automatic transaxle (RE4F03A) has been introduced.

Heater and air conditioner

R134a refrigerant has been introduced.

Electrical system

The keyless entry system has been introduced.

CONTENTS

CONSULT CHECKING SYSTEM	IDENTIFICATION INFORMATION
Function and System Application	Model Variation3
Lithium Battery Replacement2	Identification Number 4
Checking Equipment2	Dimensions 5
	Wheels and Tires

Function and System Application

Diagnostic test mode	Function	ECCS	А/Т	Air bag	ASCD
Work support	This mode enables a technician to adjust some devices faster and more accurately by following the indications on CONSULT.	×			
Self-diagnostic results	Self-diagnostic results can be read and erased quickly.	×	ik:	×	**
Data monitor	Input/Output data in the ECM can be read.	×	×		.*.
Active test	Diagnostic Test Mode in which CONSULT drives some actuators apart from the ECMs and also shifts some parameters in a specified range.	÷	••••	••••	
ECM part number	ECM part number can be read.	×	×		
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:	į×̇́			: 3

^{×:} 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.

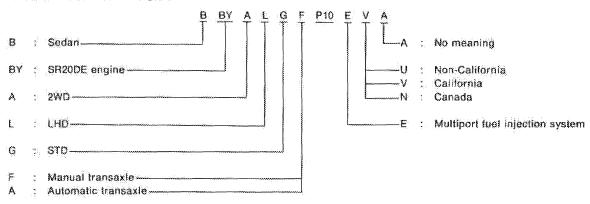
Tool name	Description
NISSAN CONSULT kit ① CONSULT unit and accessories ② Program card (UE920)	

IDENTIFICATION INFORMATION

Model Variation

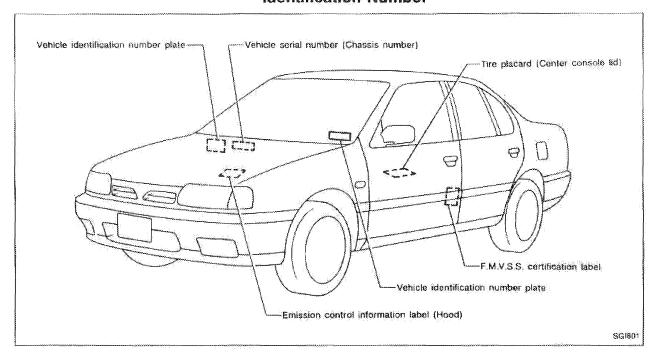
Body	Destination	Grade	Model	Engine	Transaxle
	. A.		BBYALGF P10 EUA		RS5F32A
	Non-California	STD	BBYALGA P10 EUA		RE4F03A
Sec. is	المالية		BBYALGF P10 EVA	SR20DE	RS5F32A
Sedan	Gallfornia		BBYALGA P10 EVA		RE4F03A
			BBYALGF P10 ENA		RS5F32A
	Canada		BBYALGA P10 ENA		RE4F03A

Prefix and suffix designations:

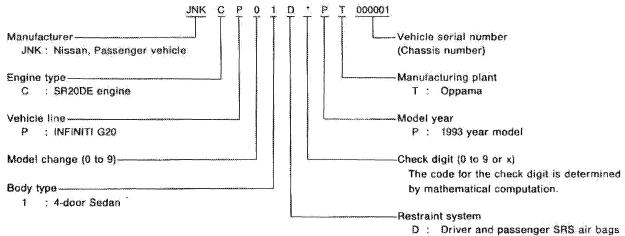


IDENTIFICATION INFORMATION

Identification Number



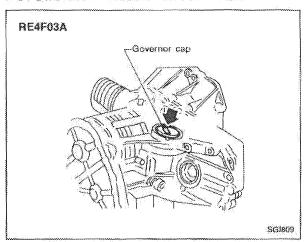
VEHICLE IDENTIFICATION NUMBER ARRANGEMENT



IDENTIFICATION INFORMATION

Identification Number (Cont'd)

AUTOMATIC TRANSAXLE NUMBER



Dimensions

Unit: mm (in)

Model		Sedan		
Overali ler	agth	4,440 (174.8)		
Overall wi	dth	1,694 (66.7)		
Overall he	ight	1,389 (54.7)		
Wheel bas	e	2,550 (100.4)		
	Front	1,471 (57.9)		
Tread	Rear	1,461 (57.5)		

Wheels and Tires

en e	Aluminum	6-JJ x 14	~~~
Road wheel	Offset mm (in)	45 (1.77)	
	Conventional	P195/65R1488H	~
Tire size	Spare	T125/70D15	

MAINTENANCE





CONTENTS

PRECAUTIONS2	PERIODIC MAINTENANCE
Supplemental Restraint System "AIR BAG" 2	Schedule 13
	Schedule 2

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 diagnostic 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:

- a. To avoid rendering the SRS inoperative, which could lead to personal injury or death in the event of a severe trontal collision, all maintenance must be performed by an authorized INFINITI dealer.
- b. Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system.
- c. 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".

PERIODIC MAINTENANCE

Schedule 1

CHASSIS AND BODY MAINTENANCE

Air bag system

See NOTE (6).

NOTE: (6) Inspect the air bag system 10 years after the date of manufacture as noted on the F.M.V.S.S. certification label.

Schedule 2

CHASSIS AND BODY MAINTENANCE

Air bag system

See NOTE (4).

NOTE: (4) Inspect the air bag system 10 years after the date of manufacture as noted on the F.M.V.S.S. certification label.



ENGINE MEGHANICAL



EM

MODIFICATION NOTICE:

- The PAIR valve has been discontinued.
- The valve timing and the valve lift have been altered (For A/T models).

CONTENTS

PRECAUTIONS2	SERVICE DATA AND SPECIFICATIONS (S.D.S.) 5
Supplemental Restraint System "AIR BAG"	General Specifications5
and "SEAT BELT PRE-TENSIONER"2	Inspection and Adjustment5
OUTER COMPONENT PARTS	

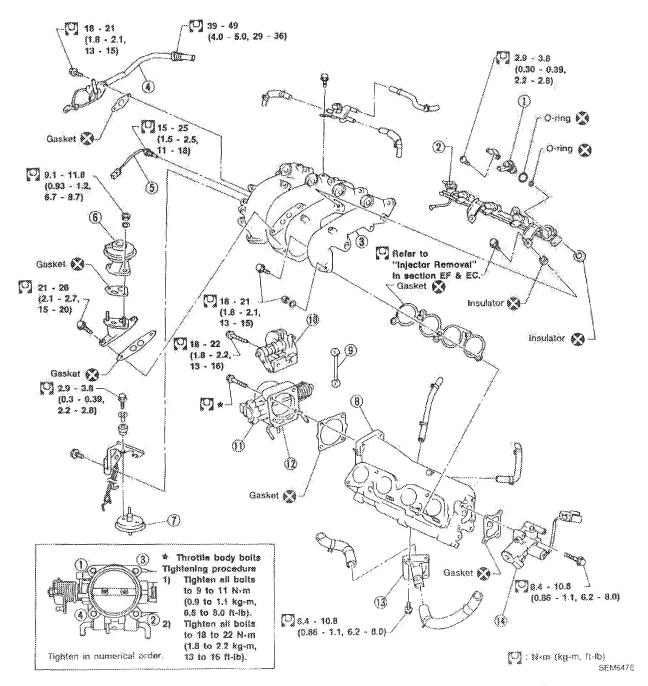
Supplemental Restraint System "AIR BAG" and "SEAT BELT PRE-TENSIONER"

The Supplemental Restraint System "Air Bag" and "Seat Belt Pre-tensioner" help to reduce the risk or severity of injury to the driver and front passenger in a 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), seat belt pre-tensioners, 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:

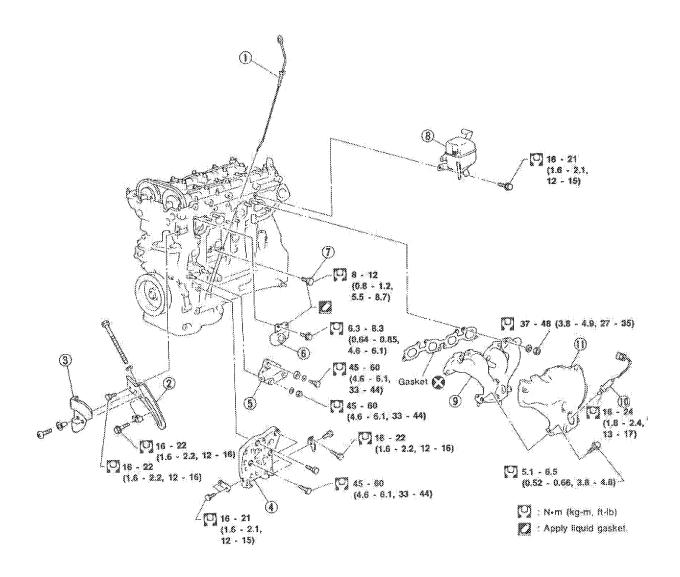
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 of a severe frontal collision, all maintenance must be performed by an authorized INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system.
- All SRS air bag electrical wiring harnesses and connectors are covered with yellow outer insulation. Do not use electrical test equipment on any circuit related to the SRS SYSTEM.

OUTER COMPONENT PARTS



- (i) Injector
- (2) Pressure regulator
- (3) Intake manifold
- (3) EGR tube
- (5) EGR lemperature sensor
- (6) EGR valve
- (7) EGRC-BPT valve
- (8) Intake manifold collector
- (9) Rod
- (ĝ) Accel-drum unit

- (i) Throttle position sensor
- (ii) Throttle body
- (3) IACV-air regulator
- (4) IACV-AAC valve



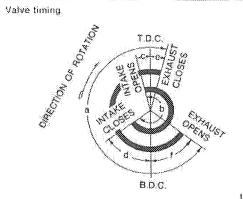
SEM648E

- (i) Oil level gauge
- (2) Alternator adjusting bar
- (3) Air guide
- (4) Compressor bracket
- (5) Alternator bracket
- (6) Water outlet
- (7) Drain plug
- (8) Oil separator

- (9) Exhaust manifold
- (ii) Heated oxygen sensor
- (i) Exhaust manifold cover

EM120

General Specifications

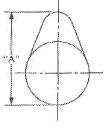


i	·	***************************************			Uni	t: degre
	a	b	C	d	0	1
M/T	240"	248°	13"	55*	3°	57°
A/T	240°	240"	13°	47°	3*	57"

Inspection and Adjustment

CAMSHAFT AND CAMSHAFT BEARING

Unit mm (in) Standard Limit Camshaft journal to 0.045 - 0.086 0.12 (0.0047) bearing clearance (0.0018 - 0.0034) Inner diameter of cam-28.000 - 28.021 (1.1024 - 1.1032) shatt bearing Outer diameter of cani-27.935 - 27.955 shalt journal (1.0998 - 1.1006) Less than Camshall runout [T.I.R.*] 0.1 (0.004) 0.02 (0.0008) Camshaft sprocket Less than runout [T.LR.1] 0.25 (0.0098) 0.055 - 0.139 Camshatt end play 0.20 (0.0079) (0.0022 - 0.0055)



	t 8/6/
Cam height "A"	
Intake	
M/T	38.408 - 36.598 (1.5121 - 1.5196)
Art	37.920 - 38.110 (1.4929 - 1.6004)
Exhaust	37,920 - 38,110 (1,4929 - 1,5004)
Wear limit of cam height	0.2 (0.008)
Valve lift	
Intake	
M/T	10.0 (0.394)
A/T	9.2 (0.362)
Exhaust	9.2 (0.362)

^{*}Total indicator reading

ENGINE FUEL & EMISSION CONTROL SYSTEM

SECTION EF8.EC

MODIFICATION POINT:

- Wiring diagrams have been changed.
- Diagnostic trouble code for signal circuit from A/T control unit to ECM has been added to Diagnostic test mode II (Self-diagnostic results).

CONTENTS



ENGINE AND EMISSION CONTROL OVERALL	ENGINE AND EMISSION CONTROL SYSTEM
SYSTEM	DESCRIPTION
Circuit Diagram	IDLE SPEED/IGNITION TIMING/IDLE MIXTURE RATIO INSPECTION
Throttle Position Sensor (TP) & Solt/Hard Closed Throttle Position (CTP) Switch (A/T models)	Contents13

Note: Refer to Foldout page for "ECCS WIRING DIAGRAM".

When you read wiring diagrams:

- . Read GI section, "HOW TO READ WIRING DIAGRAMS".
- See EL section, "POWER SUPPLY ROUTING" for power distribution circuit. When you perform trouble diagnoses, read GI section, "HOW TO FOLLOW FLOW CHART IN TROUBLE DIAGNOSES".

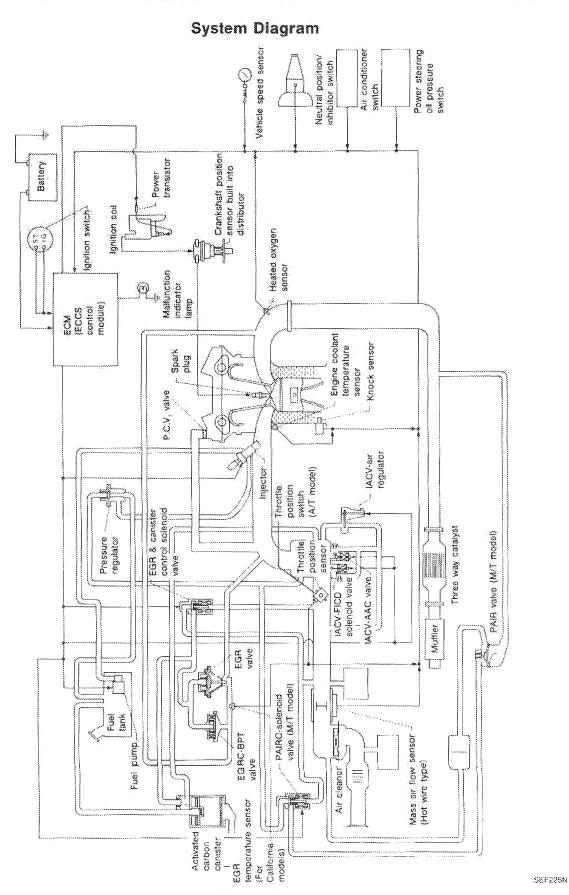
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ENGINE AND EMISSION CONTROL OVERALL SYSTEM



EF & EC-2