

## QUICK REFERENCE INDEX

GENERAL INFORMATION	GI
MAINTENANCE	MA
ENGINE MECHANICAL	EM
ENGINE LUBRICATION & COOLING SYSTEMS	LC
ENGINE CONTROL SYSTEM	EC
ACCELERATOR CONTROL, FUEL & EXHAUST SYSTEMS	FE
CLUTCH	CL
MANUAL TRANSAXLE	MT
AUTOMATIC TRANSAXLE	AT
FRONT AXLE & FRONT SUSPENSION	FA
REAR AXLE & REAR SUSPENSION	RA
BRAKE SYSTEM	BR
STEERING SYSTEM	ST
RESTRAINT SYSTEM	RS
BODY & TRIM	BT
HEATER & AIR CONDITIONER	HA
ELECTRICAL SYSTEM	EL
ALPHABETICAL INDEX	IDX



**INFINITI®**  
**G20**

**MODEL P10 SERIES**



**INFINITI®**

© 1995 NISSAN MOTOR CO., LTD.

Printed in Japan

Not to be reproduced in whole or in part without the prior written permission of Nissan Motor Company Ltd., Tokyo, Japan.

# FOREWORD

---

This manual contains maintenance and repair procedures for the 1996 INFINITI G20.

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 be completely satisfied that neither personal safety nor the vehicle's safety will be jeopardized by the service method selected.



INFINITI®



NISSAN MOTOR CO., LTD.

Overseas Service Department  
Tokyo, Japan

# QUICK REFERENCE CHART: G20

1996

## ENGINE TUNE-UP DATA

Engine model		SR20DE		
Firing order		1-3-4-2		
Idle speed rpm	M/T	800 ± 50		
	A/T (in "N" position)			
Ignition timing (B.T.D.C. at idle speed)		15° ± 2°		
CO% at idle		Idle mixture screw is preset and sealed at factory.		
Drive belt deflection (Cold) mm (in)		Used belt deflection		Deflection of new belt
		Limit	Deflection after adjustment	
Alternator	With air conditioner compressor	11.5 - 12.5 (0.453 - 0.492)	7 - 8 (0.28 - 0.31)	6.5 - 7.5 (0.256 - 0.295)
	Without air conditioner compressor	12 - 13 (0.47 - 0.51)	8 - 9 (0.31 - 0.35)	7 - 8 (0.28 - 0.31)
Power steering oil pump		6 - 7 (0.24 - 0.28)	4 - 5 (0.16 - 0.20)	3.5 - 4.5 (0.138 - 0.177)
Applied pushing force N (kg, lb)		98 (10, 22)		
Radiator cap relief pressure kPa (kg/cm <sup>2</sup> , psi)		78 - 98 (0.8 - 1.0, 11 - 14)		
Cooling system leakage testing pressure kPa (kg/cm <sup>2</sup> , psi)		157 (1.6, 23)		
Compression pressure kPa (kg/cm <sup>2</sup> , psi)/rpm	Standard	1,226 (12.5, 178)/300		
	Minimum	1,030 (10.5, 149)/300		
Spark plug	Type (Standard)	PFR5B-11, BKR6E		

## FRONT WHEEL ALIGNMENT (Unladen\*)

Camber	Minimum	-0°45' (-0.75°)
	Nominal	0°00' (0.00°)
	Maximum	0°45' (0.75°)
Degree minute (Decimal degree)	Left and right difference	
	45' (0.75°) or less	
Caster	Minimum	1°05' (1.08°)
	Nominal	1°50' (1.83°)
	Maximum	2°35' (2.58°)
Degree minute (Decimal degree)	Left and right difference	
	45' (0.75°) or less	
Total toe-in	Minimum	0 (0)
	Nominal	1 (0.04)
	Maximum	2 (0.08)
Distance (A - B) mm (in)		
	1 (0.04)	2 (0.08)
Angle (left plus right)	Minimum	0° (0.00°)
	Nominal	6° (0.10°)
	Maximum	12° (0.20°)
Degree minute (Decimal degree)		
	12° (0.20°)	
Wheel turning angle (Full turn)	Minimum	33°00' (33.00°)
	Nominal	35°00' (35.00°)
	Maximum	37°00' (37.00°)
Degree minute (Decimal degree)		
	37°00' (37.00°)	
Outside		
	Nominal	30°00' (30.00°)

\* Fuel, radiator coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions.

## REAR WHEEL ALIGNMENT (Unladen\*)

Camber	Minimum	-1°50' (-1.83°)
	Nominal	-1°05' (-1.08°)
	Maximum	-0°20' (-0.33°)
Degree minute (Decimal degree)		
	-0°20' (-0.33°)	
Total toe-in	Minimum	-1 (-0.04)
	Nominal	1 (0.04)
	Maximum	3 (0.12)
Distance (A - B) mm (in)		
	1 (0.04)	3 (0.12)
Angle (left plus right)	Minimum	-5° (-0.08°)
	Nominal	5° (0.08°)
	Maximum	15° (0.25°)
Degree minute (Decimal degree)		
	15° (0.25°)	

\* Fuel, radiator coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions.

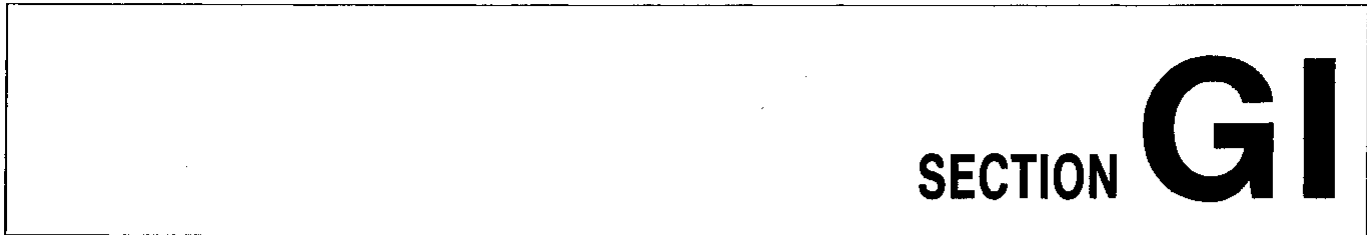
## BRAKE

Unit: mm (in)		
Front brake		
Pad wear limit		2.0 (0.079)
Rotor repair limit		20.0 (0.787)
Rear brake		
Pad wear limit		1.5 (0.059)
Rotor repair limit		8.0 (0.315)
Pedal free height	M/T	151 - 161 (5.94 - 6.34)
	A/T	159 - 169 (6.26 - 6.65)
Pedal depressed height*	M/T	80 (3.15) or more
	A/T	85 (3.35) or more

\* Under force of 490 N (50 kg, 110 lb) with engine running

## REFILL CAPACITIES

Unit	Liter	US measure
Fuel tank	60	15-7/8 gal
Coolant (With reservoir tank)	M/T	6.1
	A/T	6.5
Engine	With oil filter	3.4
	Without oil filter	3.2
Transaxle	M/T	3.7 - 3.9
	A/T	7-7/8 - 8-1/4 pt
Power steering system	7.0	7-3/8 qt
Air conditioning system	Compressor oil	0.9
	Refrigerant	0.2
		6.8 fl oz
		1.54 - 1.76 lb



## CONTENTS

<b>PRECAUTIONS</b> .....	2	<b>HOW TO FOLLOW FLOW CHART IN TROUBLE</b>	
Supplemental Restraint System "AIR BAG" and "SEAT BELT PRE-TENSIONER" .....	2	<b>DIAGNOSES</b> .....	28
General Precautions.....	2	<b>CONSULT CHECKING SYSTEM</b> .....	31
Precautions for Multiport Fuel Injection System or ECCS Engine.....	4	Function and System Application.....	31
Precautions for Three Way Catalyst.....	4	Lithium Battery Replacement.....	31
Engine Oils.....	4	Checking Equipment.....	31
Precautions for Fuel.....	5	<b>IDENTIFICATION INFORMATION</b> .....	32
Precautions for Air Conditioning.....	5	Model Variation.....	32
<b>HOW TO USE THIS MANUAL</b> .....	6	Identification Number.....	33
<b>HOW TO READ WIRING DIAGRAMS</b> .....	8	Dimensions.....	35
Sample/Wiring Diagram — EXAMPL —.....	8	Wheels and Tires.....	35
Description.....	10	<b>LIFTING POINTS AND TOW TRUCK TOWING</b> .....	36
Wiring Diagram Codes (Cell Codes).....	16	Preparation.....	36
<b>HOW TO PERFORM EFFICIENT DIAGNOSIS FOR</b>		Board-on Lift.....	36
<b>AN ELECTRICAL INCIDENT</b> .....	17	Garage Jack and Safety Stand.....	37
Work Flow.....	17	2-pole Lift.....	37
Incident Simulation Tests.....	18	Tow Truck Towing.....	38
Circuit Inspection.....	22	<b>TIGHTENING TORQUE OF STANDARD BOLTS</b> .....	39
		<b>SAE J1930 TERMINOLOGY LIST</b> .....	40
		SAE J1930 Terminology List.....	40

**Thank you very much  
for your reading.**

**Please click here and go  
back to the website.**

**Then, you can  
download the complete  
manual instantly.**

**No waiting.**