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**Q45**  
**MODEL G50 SERIES**



# FOREWORD

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**This manual contains maintenance and repair procedures for the 1996 INFINITI Q45.**

**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.**

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## 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.**



**NISSAN MOTOR CO., LTD.**

**Overseas Service Department  
Tokyo, Japan**

## ENGINE TUNE-UP DATA

Engine model	VH45DE		
Firing order	1-8-7-3-6-5-4-2		
Idle speed A/T (In "N" position)	rpm	650 ± 50	
Ignition timing (BTDC 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	14 (0.55)	9 - 10 (0.35 - 0.39)	7.5 - 8.5 (0.295 - 0.335)
Air conditioner compressor	12 (0.47)	8.5 - 9.5 (0.335 - 0.374)	7.5 - 8.5 (0.295 - 0.335)
Power steering oil pump	14 (0.55)	9 - 10 (0.35 - 0.39)	8 - 9 (0.31 - 0.35)
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		
	Standard	1,275 (13.0, 185)/300	
Minimum	981 (10.0, 142)/300		
Spark plug	Type (Standard)	PFR5G-11	

## REAR WHEEL ALIGNMENT (Unladen\*)

Camber Degree minute (Decimal degree)	Minimum	-1°35' (-1.58°)
	Nominal	-1°05' (-1.08°)
	Maximum	-0°35' (-0.58°)
Total toe-in Distance (A - B) mm (in)	Minimum	0 (0)
	Nominal	2 (0.08)
	Maximum	4 (0.16)
Angle (left plus right) Degree minute (Decimal degree)	Minimum	0° (0.00°)
	Nominal	11° (0.18°)
	Maximum	22° (0.37°)

\* 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	26.0 (1.024)	
Rear brake		
Pad wear limit	2.0 (0.079)	
Rotor repair limit	8.0 (0.315)	
Pedal free height	184 - 194 (7.24 - 7.64)	
Pedal depressed height*	100 - 110 (3.94 - 4.33)	

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

## FRONT WHEEL ALIGNMENT (Unladen\*)

Camber Degree minute (Decimal degree)	Minimum	-1°35' (-1.58°)
	Nominal	-0°50' (-0.83°)
	Maximum	-0°05' (-0.08°)
Caster Degree minute (Decimal degree)	Left and right difference	45° (0.75°) or less
	Minimum	5°45' (5.75°)
	Nominal	6°30' (6.50°)
Total toe-in Distance (A - B) mm (in)	Minimum	0 (0)
	Nominal	1 (0.04)
	Maximum	2 (0.08)
Angle (left plus right) Degree minute (Decimal degree)	Minimum	0° (0.00°)
	Nominal	5° (0.08°)
	Maximum	10° (0.17°)
Wheel turning angle (Full turn) Inside Degree minute (Decimal degree)	Minimum	35°30' (35.50°)
	Nominal	38°30' (38.50°)
	Maximum	39°30' (39.50°)
Outside Degree minute (Decimal degree)	Nominal	32°00' (32.00°)

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

## REFILL CAPACITIES

Unit	Liter	US measure	
Fuel tank	85	22-1/2 gal	
Coolant (With reservoir tank)	10.3	10-7/8 qt	
Engine	With oil filter	6.0	6-3/8 qt
	Without oil filter	5.6	5-7/8 qt
Transmission	A/T	10.5	11-1/8 qt
Differential carrier		1.3	2-3/4 pt
Power steering system		1.2	1-1/4 qt
Air conditioning system	Compressor oil	0.200	6.8 fl oz
	Refrigerant	0.775 - 0.825 kg	1.705 - 1.815 lb

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