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NISSAN QUEST MODEL V40 SERIES

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FOREWORD

This manual contains maintenance and repair procedures for the 1996 Nissan QUEST.

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.

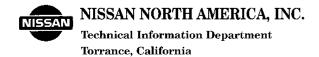
All information in this manual is based on the latest product information at the time of publication. The right is reserved to make changes in specifications and methods at any time without notice.

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



QUICK REFERENCE CHART: QUEST 1996

ENGINE TUNE-UP DATA

Engine model		VG30E		
Firing order		1-2-3-4-5-6		
Idle speed rpm A/T (in "N" position)		750 ÷ 50		
Ignition timing (degree 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		
		Limit	Deflection after adjustment	Deflection of new belt
Generator		12 (0.47)	7.5 - 8.5 (0.295 - 0.335)	6.5 - 7.5 (0.256 - 0.298
Air conditioner compressor		10 (0.39)	5 - 7 (0.20 - 0.28)	4 - 6 (0.16 - 0.24)
Power steering oil pump		16 (0.63)	10 - 12 (0.39 - 0.47)	8 - 10 (0.31 - 0.39)
Applied pushing force		98 N (10 kg, 22 lb)		
Radiator cap relief pressure kPa (kg/cm², psi)		81.4 - 108.9 (0.83 - 1.11, 11.8 - 15.8)		
Cooling system leakage testing pre kPa	ssure (kg/cm², psi)		157 (1.6, 23)	
Compression pressure	Standard	1,196 (12.2, 173)/300		
kPa (kg/cm², psi)/rpm Minimu		883 (9.0, 128)/300		
High tension cable resistance	kΩ	Less than 30		
Spark plug Standard		BKR5EY		
Туре	Cold	BKR6EY		
Gap mm (in)		0.8 - 0.9 (0.031 - 0.035)		
Tightening torque		N∙m	kg-m	ft-lb
Spark plug		20 - 29	2 - 3	14 - 22
Oil pan drain plug		29 - 39	3 - 4	22 - 29

FRONT WHEEL ALIGNMENT (Unladen*1)

Front				
Camber	Degree minute (Decimal degree)	-27" - 1":03" (-0.45 - 1.0)		
Caster	Degree minute (Decimal degree)	3' - 1^33' (0.05 - 1.55)		
Kingpin inclination	on Degree minute (Decimal degree) 12°50' - 14°20' (12.83 - 14.3			
Total toe-in				
Distance (A - B)	mm (in)	2 - 4 (0.08 - 0.16)		
Total angle 29	Degree minute	11.0' - 22.0'		
Wheel turning angle				
Full turn *2				
Inside	Degree minute	36 ° - 40°		
Outside	Degree minute	28" - 32"		

REAR WHEEL ALIGNMENT (Unladen*)

Rear		
Camber	Degree minute (Decimal degree)	-1°45' - 0°15' (-1.75 - 0.25)
Total toe-in		
Distance (A - B)	mm (in)	-4.0 - 4.0 (-0.843 - 0.157)

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

BRAKE

	Unit: mr	
Front brake		
Pad wear limit	2.0 (0.079)	
Rotor repair limit	24.0 (0.945),	
Rear brake		
Lining wear limit	2.0 (0.079)	
Orum repair limit	251.5 (9.90)	
Pedal free height	195 - 205 (7.68 - 8.07)	
Pedal depressed height *1	115 - †30 (4.53 - 5.12)	
Parking brake		
Number of notches *2	11 - 12	

¹¹ Under force of 490 N (50 kg, 110 lb) with engine running.

REFILL CAPACITIES

	Unit	Liter	US measure
Fuel tank		75.7	20 gal
Coolant (wi	ith reservoir)		
Front	heater only	10.7	11-3/8qt
With r	ear heater	12.1	12-3/4qt
Engine	With oil filter	4.0	4-1/4qt
	Without oil fifter	3.6	3-7/8qt
Transaxle (with torque converter) *1	9.4	10qt
Power stee	ring system *2	1.1	1-1/8qt
Air conditio	oning system		
With rear	A/C		
Lubric	ant *3	296 ml	10.0 oz
Refrig	erant '4	1.474 kg	3.25 lb
Front A/C	only		
Lubric	ant '3	207 ml	7.0 oz
Refrig	erant *4	0.907 kg	2.0 lb

^{*1} Nissan Matic 'D' (Continental U.S. and Alaska) or Genuine Nissan Automatic

¹ Fuel, radiator coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions.
2 Wheel turning force (at circumference of steering wheel) of 98 to 147 N (10 to 15 kg, 22 to 33 lb) with engine at idle.

^{*2} Under torce of 196 N (20 kg, 44 lb).

Transmission Fluid (Canada).

Type F Automatic Transmission Fluid.

Nissan A/C System Lubricant PAG Type F or equivalent.

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