

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.



NISSAN NORTH AMERICA, INC.

Technical Information Department
Torrance, California

QUICK REFERENCE CHART: QUEST 1996

ENGINE TUNE-UP DATA

Engine model	VG30E				
Firing order	1-2-3-4-5-6				
Idle speed A/T (in "N" position)	rpm	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 - 0.295)
		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 pressure	kPa (kg/cm², psi)	157 (1.6, 23)			
Compression pressure kPa (kg/cm², psi)/rpm	Standard	1,196 (12.2, 173)/300			
	Minimum	883 (9.0, 128)/300			
High tension cable resistance	kΩ	Less than 30			
Spark plug Type	Standard	BKR5EY			
	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)	
Castor Degree minute (Decimal degree)	3' - 1°33' (0.05 - 1.55)	
Kingpin inclination Degree minute (Decimal degree)	12°50' - 14°20' (12.83 - 14.33)	
Total toe-in		
Distance (A - B) mm (in)	2 - 4 (0.08 - 0.16)	
Total angle 2θ Degree minute	11.0' - 22.0'	
Wheel turning angle		
Full turn *2		
Inside Degree minute	38° - 40°	
Outside Degree minute	28° - 32°	

- *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.

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: mm (in)	
Front brake	
Pad wear limit	2.0 (0.079)
Rotor repair limit	24.0 (0.945)
Rear brake	
Lining wear limit	2.0 (0.078)
Drum repair limit	251.5 (9.90)
Pedal free height	195 - 205 (7.68 - 8.07)
Pedal depressed height *1	115 - 130 (4.53 - 5.12)
Parking brake	
Number of notches *2	11 - 12

- *1 Under force of 490 N (50 kg, 110 lb) with engine running.
*2 Under force of 196 N (20 kg, 44 lb).

REFILL CAPACITIES

Unit	Liter	US measure
Fuel tank	75.7	20 gal
Coolant (with reservoir)		
Front heater only	10.7	11-3/8qt
With rear heater	12.1	12-3/4qt
Engine		
With oil filter	4.0	4-1/4qt
Without oil filter	3.6	3-7/8qt
Transaxle (with torque converter) *1	9.4	10qt
Power steering system *2	1.1	1-1/8qt
Air conditioning system		
With rear A/C		
Lubricant *3	296 ml	10.0 oz
Refrigerant *4	1.474 kg	3.25 lb
Front A/C only		
Lubricant *3	207 ml	7.0 oz
Refrigerant *4	0.907 kg	2.0 lb

- *1 Nissan Matic 'D' (Continental U.S. and Alaska) or Genuine Nissan Automatic Transmission Fluid (Canada).
*2 Type F Automatic Transmission Fluid.
*3 Nissan A/C System Lubricant PAG Type F or equivalent.
*4 R-134a.