

NISSAN TRUCK

MODEL D21 SERIES

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 TRANSMISSION _____	MT
AUTOMATIC TRANSMISSION _____	AT
TRANSFER _____	TF
PROPELLER SHAFT & DIFFERENTIAL CARRIER _____	PD
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

FOREWORD

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

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 Service Information Department
Torrance, California

QUICK REFERENCE CHART: TRUCK 1996

ENGINE TUNE-UP DATA

Engine model	KA24E						
Firing order	1-3-4-2						
Idle speed	rpm	800 ± 50					
M/T		800 ± 50					
A/T (in "N" position)		800 ± 50					
Ignition timing* (degree B.T.D.C. at idle speed)		10° ± 2°					
CO% at idle	Idle mixture screw is preset and sealed at factory						
Spark plug	Standard ZFR5E-11						
Type	Cold	ZFR6E-11					
	Hot	ZFR4E-11					
	Gap	mm (in) 1.0 - 1.1 (0.039 - 0.043)					
Drive belt deflection (Cold)	mm (in)	Used belt					
		Limit	Deflection after adjustment				
Generator	17 (0.67)	10 - 12 (0.39 - 0.47)	8 - 10 (0.31 - 0.39)				
Air conditioner compressor	16 (0.63)	10 - 12 (0.39 - 0.47)	8 - 10 (0.31 - 0.39)				
Power steering oil pump	15 (0.59)	9 - 11 (0.35 - 0.43)	7 - 9 (0.28 - 0.35)				
Applied pressed force	N (kg, lb)	98 (10, 22)					
Radiator cap relief pressure	kPa (kg/cm ² , psi)	78 - 98 (0.8 - 1.0, 11 - 14)					
Cooling system leakage testing pressure	kPa (kg/cm ² , psi)	157 (1.6, 23)					
Compression pressure	Standard	1,324 (13.5, 192)/300					
	Minimum	981 (10, 142)/300					
Tightening torque	N·m	kg·m	ft·lb				
				Spark plug	20 - 29	2.0 - 3.0	14 - 22
				Oil pan drain plug	29 - 39	3.0 - 4.0	22 - 29

FRONT WHEEL ALIGNMENT (Unladen*1)

Applied model	ALLOWABLE LIMIT		ADJUSTING RANGE			
	2WD	4WD	2WD	4WD		
Camber	degree (Decimal degree)	-0°20' - 1°10' (-0.33° - 1.17°)	-0°05' - 1°25' (-0.08° - 1.42°)	-0°05' - 0°55' (-0.08° - 0.92°)	0°10' - 1°10' (0.17° - 1.17°)	
Caster	degree (Decimal degree)	-0°23' - 1°07' (-0.38° - 1.12°)	0°33' - 2°03' (0.55° - 2.05°)	-0°08' - 0°52' (-0.13° - 0.87°)	0°48' - 1°48' (0.80° - 1.80°)	
Kingpin inclination	degree (Decimal degree)	8°20' - 9°50' (8.33° - 9.83°)	7°21' - 8°51' (7.35° - 8.85°)	8°35' - 9°35' (8.58° - 9.58°)	7°36' - 8°36' (7.60° - 8.60°)	
Toe-in	Radial tire					
	A - B	mm (in)	1 - 5 (0.04 - 0.20)	2 - 6 (0.08 - 0.24)	2 - 4 (0.08 - 0.16)	3 - 5 (0.12 - 0.20)
Total angle 2θ	degree (Decimal degree)	5' - 25' (0.08° - 0.42°)	9' - 29' (0.15° - 0.48°)	10' - 20' (0.17° - 0.33°)	14' - 24' (0.23° - 0.40°)	
Wheel turning angle	Inside	Degree minute (Decimal degree)	34°00' - 38°00' (34.00° - 38.00°)	31°00' - 35°00' (31.00° - 35.00°)	36°00' - 38°00' (36.00° - 38.00°)	33°00' - 35°00' (33.00° - 35.00°)
	Outside	Degree minute (Decimal degree)	31°00' - 35°00' (31.00° - 35.00°)	29°00' - 33°00' (29.00° - 33.00°)	33°00' - 35°00' (33.00° - 35.00°)	31°00' - 33°00' (31.00° - 33.00°)

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

CLUTCH PEDAL

	Unit: mm (in)
Pedal height	226 - 236 (8.90 - 9.29)
Pedal free play	9 - 16 (0.35 - 0.63)

BRAKE

		Unit: mm (in)
Disc brake	Pad minimum thickness	2.0 (0.079)
	Rotor repair limit	
	Runout	0.07 (0.0028) or less
Minimum thickness	20.0 (0.787), CL28VA	
	24.0 (0.945), CL28VD	
Drum brake	Lining minimum thickness	1.5 (0.059)
	Drum repair limit	
Maximum inner diameter	261.5 (10.30), LT26B	
296.5 (11.67), LT30B		
Parking brake	Number of notches*1	10 - 12

*1: At pulling force: 196 N (20 kg, 44 lb)

FRONT WHEEL BEARING

Item	Model			
	2WD	4WD		
Tightening torque	34 - 39 (3.5 - 4.0, 25 - 29)			
N·m (kg·m, ft·lb)				
Return angle	45° - 60°			
Preload (At hub bolt)	New seal	9.8 - 28.4 (1.0 - 2.9, 2.2 - 6.4)	Wheel bearing lock nut Tightening torque N·m (kg·m, ft·lb)	78 - 98 (8 - 10, 58 - 72)
			Retightening torque after loosening wheel bearing lock nut N·m (kg·m, ft·lb)	0.5 - 1.5 (0.05 - 0.15, 0.4 - 1.1)
	Used seal	9.8 - 23.5 (1.0 - 2.4, 2.2 - 5.3)	Start force at wheel hub bolt N (kg, lb)	A
			Turning angle	15° - 30°
Starting force at wheel hub bolt N (kg, lb)		B		
Wheel bearing preload at wheel hub bolt B - A N (kg, lb)			7.06 - 20.99 (0.72 - 2.14, 1.59 - 4.72)	

REFILL CAPACITIES

	Unit	Liter	US measure	
Fuel tank		60	15.9 gal	
Coolant (with reservoir)	2WD	8.1	8-5/8 qt	
	4WD	9.0	9-1/2 qt	
Engine	2WD	With oil filter	3.9	4-1/8 qt
		Without oil filter	3.5	3-3/4 qt
	4WD	With oil filter	4.1	4-3/8 qt
		Without oil filter	3.8	4 qt
Transaxle	M/T	2.0	4-1/4 pt	
	A/T	4.9	10-3/8 pt	
Transfer	2WD	2.2	2-3/8 qt	
	4WD			
Final drive	2WD	H190A	1.5	3-1/8 pt
		C200	1.3	2-3/4 pt
	4WD	R160A	1.3	2-3/4 pt
		H233B	2.8	5-7/8 pt
Manual steering system		0.62	1-3/8 pt	
Power steering system	PB485	0.9	1 qt	
	PB59K	1.0	1-1/8 qt	
Air conditioner system	Lubricant	0.2	6.8 fl oz	
	Refrigerant*	0.75 - 0.85	1.65 - 1.87 lb	

*R-134a