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FOREWORD

This manual contains maintenance and repair procedure for the 2009 NISSAN PATHFINDER.

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.





PLEASE HELP MAKE THIS SERVICE MANUAL BETTER!

Your comments are important to NISSAN and will help us to improve our Service Manuals. Use this form to report any issues or comments you may have regarding our Service Manuals. Please print this form and type or write your comments below. Mail or fax to:

Nissan North America, Inc. Technical Service Information 39001 Sunrise Drive, P.O. Box 9200 Farmington Hills, MI USA 48331 FAX: (248) 488-3910

SERVICE MANUAL: Model: ______ Year: _____ PUBLICATION NO. (Refer to Quick Reference Index): _____ Please describe any Service Manual issues or problems in detail: Page number(s) ______ Note: Please include a copy of each page, marked with your comments. Are the trouble diagnosis procedures logical and easy to use? (circle your answer) NO If no, what page number(s)?_____Note: Please include a copy of each page, marked with your comments. Please describe the issue or problem in detail: Is the organization of the manual clear and easy to follow? (circle your answer) YES NO Please comment: What information should be included in NISSAN Service Manuals to better support you in servicing or repairing customer vehicles? DATE: _____ YOUR NAME: _____ _____ POSITION: _____ DEALER: _____ DEALER NO.: ____ ADDRESS: ___ _____ STATE/PROV./COUNTRY: _____ ZIP/POSTAL CODE: ____

QUICK REFERENCE CHART: PATHFINDER

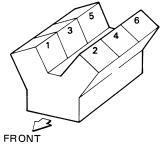
Engine Tune-up Data: VQ40DE

INFOID:0000000005612245

GENERAL SPECIFICATIONS

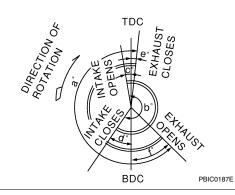
Cylinder arrangement		V-6	
Displacement cm ³ (cu in)	splacement cm ³ (cu in)		
Bore and stroke mm (in)	e and stroke mm (in)		
Valve arrangement		DOHC	
Firing order		1-2-3-4-5-6	
Number of pieton rings	Compression	2	
Number of piston rings	Oil	3,954 (241.30) 95.5 × 92.0 (3.76 × 3.622) DOHC 1-2-3-4-5-6	
Number of main bearings		4	
Compression ratio		9.7	
0	Standard	1,275 (13.0, 185)	
Compression pressure kPa (kg/cm², psi)/300 rpm	Minimum	981 (10.0, 142)	
iii a (iig/oiii , poi//ood ipiii	Differential limit between cylinders	1-2-3-4-5-6 2 1 4 9.7 1,275 (13.0, 185) 981 (10.0, 142)	

Cylinder number



SEM713A

Valve timing (Intake valve timing control - "OFF")



 b
 c
 d
 e
 f

 240
 -4
 64
 6
 58

DRIVE BELT

244

Tension of drive belts	Auto adjustment by auto tensioner
------------------------	-----------------------------------

Application	United States and Canada	Mexico		
Make	No	GK		
Standard type*	DILFR5A-11	PLFR5A-11		
Gap (nominal)	1.1 mm (1.1 mm (0.043 in)		

^{*:} Always check with the Parts Department for the latest parts information

Engine Tune-up Data: VK56DE

INFOID:0000000005612244

GENERAL SPECIFICATIONS

Cylinder arrangemen	t			V	/-8		
Displacement cm ³ ((in ³)	5,552 (338.80)					
Bore and stroke mn	n (in)	98 x 92 (3.86 x 3.62)					
Valve arrangement		DOHC					
Firing order				1-8-7-3	3-6-5-4-2		
Number of pioton since		Compression			2		
Number of piston ring	js	Oil 1 5 9.8:1 Standard 1,520 (15.5, 220)/200					
Number of main bear	ings				5		
Compression ratio				9.	8:1		
		Standard		1,520 (15.	5, 220)/200		
Compression pressur kPa (kg/cm ² , psi)/rpr		Minimum		1,324 (13.	5, 192)/200		
KFa (kg/cili , psi//ipi		Differential limit betw	een cylinders	5,552 98 x 92 (3) 1-8-7-3 1-8-7-3 1,520 (15) 1,324 (13) 98 (1.0)	, 14)/200		
Valve timing			ONA INTAKE	SYNY CLOSES			
		I	_	I	Unit: degree		
a	b	С			f		
244°	232°	8°	60°	10°	54°		

Tension of drive belts	Auto adjustment by auto tensioner
SPARK PLUG	Unit: mm (in)

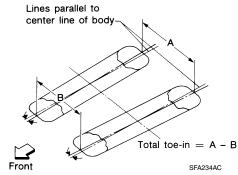
Make	NGK
Standard type*	DILFR5A-11
Gap (nominal)	1.1 (0.043)

^{*:} Always check with the Parts Department for the latest parts information

Front Wheel Alignment (Unladen*1)

INFOID:0000000005612223

Drive type		2WD	4WD
	Minimum	-0° 30′ (-0.50°)	-0° 15′ (-0.25°)
Caster	Nominal	0° 15′ (0.25°)	0° 30′ (0.50°)
Degree minute (decimal degree)	Minimum -0° 30′ (-0.50°) Nominal 0° 15′ (0.25°) Maximum 1° 00′ (1.00°) Cross camber 0° 45′ (0.75°) or less 0° Minimum 2° 15′ (2.25°) 0° Nominal 3° 0′ (3.00°) 0° Maximum 3° 45′ (3.75°) 0° Cross caster 0° 45′ (0.75°) or less 0°	1° 15′ (1.25°)	
	Cross camber	0° 45′ (0.75°) or less	0° 45′ (0.75°) or less
Caster	Minimum	2° 15′ (2.25°)	2° 00′ (2.00°)
	Nominal	3° 0′ (3.00°)	2° 45′ (2.75°)
Degree minute (decimal degree)	Nominal 0° 15′ (0.25°) Maximum 1° 00′ (1.00°) Cross camber 0° 45′ (0.75°) or less Minimum 2° 15′ (2.25°) Nominal 3° 0′ (3.00°) Maximum 3° 45′ (3.75°)	3° 30′ (3.50°)	
	Cross caster	0° 45′ (0.75°) or less	0° 45′ (0.75°) or less
Kingpin inclination Degree minute (decimal degree)	Nominal	13° 0′ (13.00°)	12° 45′ (12.75°)



			Minimum	2.1 mm (0.08 in)	2.1 mm (0.08 in)
	Distance (A – B	Distance (A – B)		3.1 mm (0.12 in)	3.1 mm (0.12 in)
Total toe-in			Maximum	4.1 mm (0.16 in)	4.1 mm (0.16 in)
Total toe-III			Minimum	0° 5′ (0.08°)	0° 5′ (0.08°)
	O (Angle (left wheel or right wheel) Degree minute (decimal degree)		0° 7′ (0.12°)	0° 7′ (0.12°)
				0° 9′ (0.15°)	0° 9′ (0.15°)
Wheel turning angle (full turn) Inside Degree minute (Dec		cimal degree)	33° 26′ – 35° 26′ *² (33.43° – 35.43°)	33° 33′ – 35° 33′ * ⁴ (33.55° – 35.55°)	
vvneei turning i	angie (iuii tuiii)	Outside Degree minute (De	cimal degree)	29° 22′ – 31° 22′ * ³ (29.37° – 31.37°)	29° 38′ – 31° 38′ * ⁵ (29.63° – 31.63°)

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

^{*2:} Target value 35° 26′ (35.43°)

^{*3:} Target value 31° 22′ (31.37°)

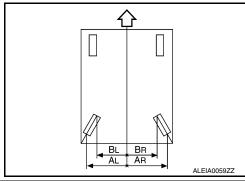
^{*4:} Target value 35° 33′ (35.55°)

^{*5:} Target value 31° 38′ (31.63°)

Rear Wheel Alignment (Unladen*)

INFOID:0000000005612221

	Minimum	- 0° 32′ (- 0.53°)
amber egree minute (decimal degree)	Nominal	- 0° 2′ (- 0.03°)
3	Maximum	0° 28′ (0.47°)



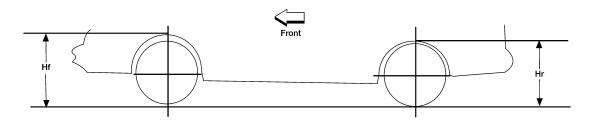
	-		
Total toe-in		Minimum	-2 mm (-0.08 in)
	Distance difference between right and left side (AR-BR)-(AL-BL)	Nominal	0 mm (0 in)
	←:Front	Maximum	2 mm (0.08 in)
		Minimum	- 1.4 mm (- 0.055 in)
	Distance [left side (AL-BL) or right side (AR-BR)] from center line of body	Nominal	1.9 mm (0.075 in)
	0.00 (2)] 00.110	Maximum	5.2 mm (0.205 in)
		Minimum	- 0° 3' (-0.05°)
	Angle (left side or right side) Degree minute (decimal degree)	Nominal	0° 4' (0.07°)
		Maximum	0° 11' (0.18°)

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

Wheelarch Height (Unladen*1)

INFOID:0000000005612222

Unit: mm (in)



LEIA0085E

Engine		VQ40DE					
Drive type	2WD			e 2WD 4WD			4WD
Tire size	P245/75R16	P265/65R17	P265/60R18	P245/75R16	P265/65R17	P265/60R18	P265/60R18
Front wheelarch height (Hf)	867 (34.13)	865 (34.06)	_	875 (34.45)	874 (34.41)	_	876 (34.49)
Rear wheelarch height (Hr)	875 (34.45)	873 (34.37)	_	884 (34.80)	883 (34.76)	_	886 (34.88)

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

Brake Specification

INFOID:0000000005612218

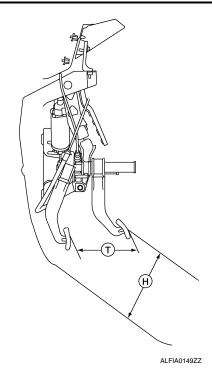
Unit: mm (in)

Application		VQ40	VK56	
Front brake	Brake model	CLZ33VB		
	Rotor outer diameter × thickness	296 × 28 (11.654 × 1.102)	320 x 28 (12.598 x 1.102)	
	Pad Length × width × thickness	140 × 51.5 × 10.0 (5.512 × 2.028 × 0.394)	130 × 52.3 × 11.0 (5.118 × 2.059 × 0.433)	
	Cylinder bore diameter (each)	46.4 (1.827)	45.0 (1.772)	
Rear brake	Brake model	CLZ14VB		
	Rotor outer diameter × thickness	308 × 18 (12.126 × 0.709)		
	Pad Length × width × thickness	87.6 × 37.0 × 11.0 (3.449 × 1.457 × 0.433)		
	Cylinder bore diameter	38.1 (1.500)		
Control valve	Valve model	Electric brake force distribution		
Brake booster	Booster model	C215T		
	Diaphragm diameter	215 (8.465)		

Brake Pedal

ADJUSTABLE PEDAL

Unit: mm (in)



Pedal free height (H) with pedal in forward most position

182.1 (7.17)

Pedal travel (T)
[Depressed under a force of 490 N (50 kg, 110 lb) with engine running]

Clearance between pedal stopper and threaded end of stop lamp switch and ASCD switch

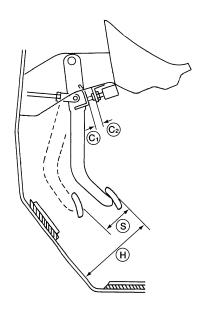
0.74 - 1.96 (0.029 - 0.077)

CALITION:

When equipped with adjustable pedal, the pedal must be in the forward most position (closest to the floor) for pedal height adjustment.

STANDARD PEDAL

Unit: mm (in)



AWFIA0433ZZ

Pedal free height (H)	182.1 (7.17)
Pedal full stroke (S) [Depressed under a force of 490 N (50 kg, 110 lb) with engine running]	153 (6.02)
Clearance between pedal stopper and threaded end of stop lamp switch and ASCD switch (C1) or (C2)	0.74 - 1.96 (0.029 - 0.077)

Front Disc Brake

Unit: mm (in)

Brake model		CLZ33VB		
Brake pad	Standard thickness (new)	10.0 (0.394)	11.0 (0.043)	
	Repair limit thickness	2.0 (0.079)		
Disc rotor	Standard thickness (new)	28.0 (1.102)		
	Repair limit thickness	26.0 (1.024)		
	Maximum uneven wear (measured at 8 positions)	0.015 (0.0006)		
	Runout limit (with it attached to the vehicle)	0.05 (0.0020)		

Rear Disc Brake

Unit: mm (in)

Brake model		CLZ14VB
Brake pad	Standard thickness (new)	11.0 (0.433)
	Repair limit thickness	2.0 (0.079)
Disc rotor	Standard thickness (new)	18.0 (0.709)
	Repair limit thickness	16.0 (0.630)
	Maximum uneven wear (measured at 8 positions)	0.015 (0.0006)
	Runout limit (with it attached to the vehicle)	0.05 (0.0020)

For North America: Fluids and Lubricants

Description		Capacity (Approximate)			
		Metric	US measure	Imp measure	
		80 <i>l</i>	21 1/8 gal	17 5/8 gal	
Engine oil Drain and refill	With oil filter change	VQ40DE	5.1 ℓ	5 3/8 qt	4 1/2 qt
		VK56DE	6.5 ℓ	6 3/4 qt	5 3/4 qt
	Without oil filter change	VQ40DE	4.8 ℓ	5 1/8 qt	4 1/4 qt
		VK56DE	6.2 ℓ	6 1/2 qt	5 1/2 qt
Dry engine (engine overh	aul)	VQ40DE	6.3 ℓ	6 5/8 qt	5 1/2 qt
		VK56DE	7.6 ℓ	8 qt	6 3/4 qt
Cooling system (with reservoir at "MAX" level)	Without rear A/C		10.2 ℓ	2 3/4 gal	2 1/4 gal
	With rear A/C		13.4 ℓ	3 1/2 gal	3 gal
Automatic transmission fluid (ATF)		VQ40DE	10.3 ℓ	10 7/8 qt	9 1/8 qt
		VK56DE	10.6 ℓ	11 1/4 qt	9 3/8 qt
Rear final drive oil		VQ40DE	1.4 ℓ	3 pt	2 1/2 pt
		VK56DE	1.75 ℓ	3 3/4 pt	3 1/8 pt
Transfer fluid	ATX14B		3.0 ℓ	3 1/8 qt	2 5/8 qt
Transfer haid	TX15B		2.0 ℓ	2 1/8 qt	1 3/4 qt
Front final drive oil		VQ40DE	0.85 ℓ	1 3/4 pt	1 1/2 pt
Front final drive oil		VK56DE	1.6 ℓ	3 3/8 pt	2 7/8 pt
Power steering fluid (PSF)		1.0 ℓ	2 1/8 pt	1 3/4 pt
Brake fluid		_	_	_	
Multi-purpose grease		_	_	_	
Windshield washer fluid		4.5 ℓ	1 1/4 gal	1 gal	
A/C system refrigerant			$0.85 \pm 0.05 \ \text{kg}$	1.87 ± 0.11 lb	1.87 ± 0.11 lb
A/C system oil		210 m ℓ	7.4 fl oz	7.1 fl oz	

For Mexico: Fluids and Lubricants

INFOID:0000000005612215

Description		Capacity (Approximate)		
		Metric	US measure	Imp measure
Fuel		80 <i>l</i>	21 1/8 gal	17 5/8 gal
Engine oil Drain and refill	With oil filter change	5.1 ℓ	5 3/8 qt	4 1/2 qt
	Without oil filter change	4.8 ℓ	5 1/8 qt	4 1/4 qt
Dry engine (engine overhaul)		6.3 ℓ	6 5/8 qt	5 1/2 qt
Cooling system (with reservoir at "MAX"	level)	10.2 ℓ	2 3/4 gal	2 1/4 gal
Automatic transmission	fluid (ATF)	10.3 ℓ	10 7/8 qt	9 1/8 qt
Rear final drive oil		2.01 ℓ	4 1/4 pt	3 1/2 pt
Transfer fluid		2.0 ℓ	2 1/8 qt	1 3/4 qt

Description	Capacity (Approximate)			
Description	Metric	US measure	Imp measure	
Front final drive oil	0.85 ℓ	1 3/4 pt	1 1/2 pt	
Power steering fluid (PSF)	1.0 ℓ	2 1/8 pt	1 3/4 pt	
Brake fluid	_	_	_	
Multi-purpose grease	_	_	_	
Brake grease	_	_	_	
A/C system refrigerant	$0.85 \pm 0.05 \ \text{kg}$	1.87 ± 0.11 lb	1.87 ± 0.11 lb	
A/C system oil	210 m ℓ	7.1 fl oz	7.4 fl oz	