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FOREWORD

This manual contains maintenance and repair procedure for the 2012 NISSAN FRONTIER.

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.



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DATE: YOUR NAME: DEALER: DEALER NO.: CITY: STATE/PROV./COUNTRY:	RESS:

Engine Tune-up Data: QR25DE

GENERAL SPECIFICATIONS

Cylinder arrangement		In-line 4	
Displacement cm ³ (cu in)		2,488 (151.82)	
Bore and stroke mm (in)		89.0 x 100.0 (3.504 x 3.937)	
Valve arrangement		DOHC	
Firing order		1-3-4-2	
Number of piston rings	Compression	2	
Number of piston rings	Oil	1	
Compression ratio		9.5	
0	Standard	1,304 (13.3, 189)	
Compression pressure kPa (kg/cm ² , psi) / 250 rpm	Minimum	1,108 (11.3, 161)	
	Differential limit between cylinders	100 (1.0, 14)	

DRIVE BELT

Tension of drive belt	Auto adjustment by auto-tensioner

SPARK PLUG

Make	NGK
Standard type*	PLZKAR6A–11
Gap (nominal)	1.1 mm (0.043 in)

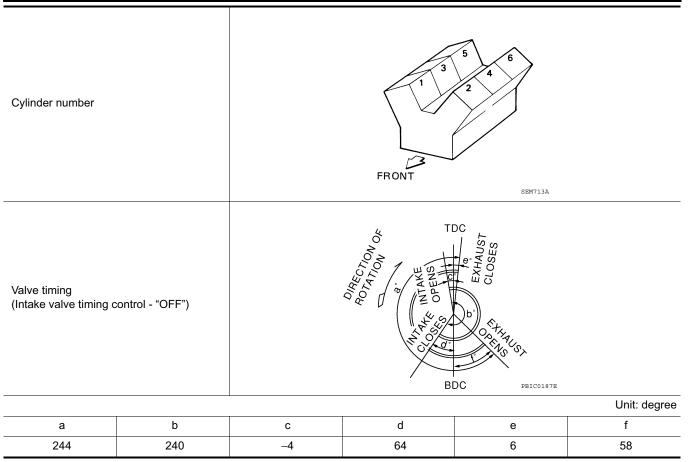
*: Always check with the Parts Department for the latest parts information.

Engine Tune-up Data: VQ40DE

INFOID:000000007838396

GENERAL SPECIFICATIONS

Cylinder arrangement		V-6	
Displacement cm ³ (cu in)		3,954 (241.30)	
Bore and stroke mm (in)		95.5 × 92.0 (3.76 × 3.622)	
Valve arrangement		DOHC	
Firing order		1-2-3-4-5-6	
Number of nieton ringe	Compression	2	
Number of piston rings	Oil	1	
Number of main bearings		4	
Compression ratio		9.7	
0	Standard	1,275 (13.0, 185)	
Compression pressure kPa (kg/cm ² , psi)/300 rpm	Minimum	981 (10.0, 142)	
	Differential limit between cylinders	98 (1.0, 14)	



DRIVE BELT

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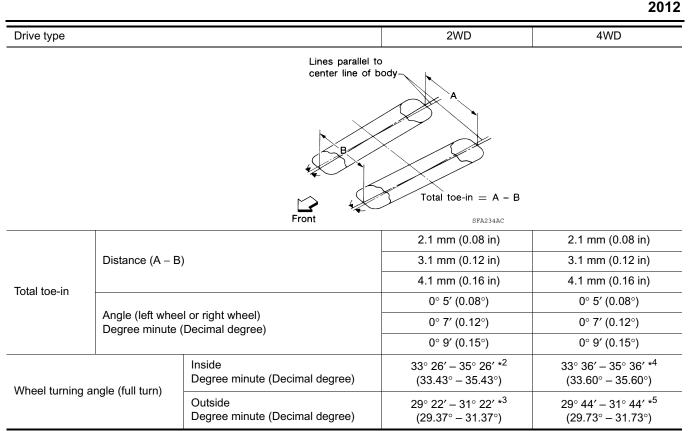
SPARK PLUG

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

*: Always check with the Parts Department for the latest parts information.

Front Wheel Alignment (Unladen*1)*6

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



*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° 36' (35.60°)

*5: Target value 31° 44' (31.73°)

*6: Some vehicles may be equipped with straight (non-adjustable) lower link bolts and washers. In order to adjust camber and caster on these vehicles, first replace the lower link bolts and washers with adjustable (cam) bolts and washers.

General Specification (Rear)

INFOID:000000007838390

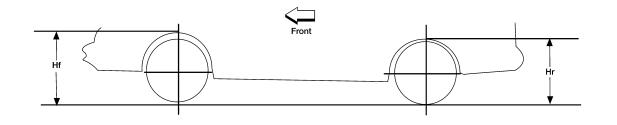
Suspension type	Rigid axle with semi-elliptic leaf springs
Shock absorber type	Double-acting hydraulic

Wheelarch Height (Unladen*¹)

King Cab

Unit: mm (in)

LEIA0085E



Drive type	2WD 4WD				VD	
Engine type	QR25DE VQ40DE		0DE			
Tire size	P235/75R15	P265/70R16	P265/70R16	P265/75R16	P265/70R16	P265/75R16

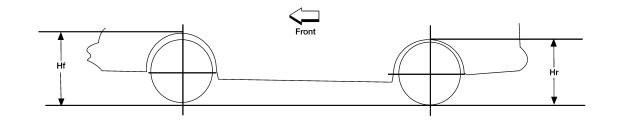
Front wheelarch height (Hf)	850	865	868	880	881	893
	(33.46)	(34.06)	(34.17)	(34.65)	(34.68)	(35.16)
Rear wheelarch height (Hr)	878	887	895	907	904	917
	(34.57)	(34.92)	(35.24)	(35.71)	(35.59)	(36.10)

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

Crew Cab

Unit: mm (in)

LEIA0085E



Engine type		VQ40DE								
Drive type			2WD			4WD				
Tire size	P265/70R16		P265/75R16 P265/60R		60R18	P265/70R16		P265/75R16	P265/60R18	
Wheel base	Short	Long	Short	Short	Long	Short	Long	Short	Short	Long
Front wheelarch height (Hf)	867 (34.13)	870 (34.25)	879 (34.61)	866 (34.09)	869 (34.21)	879 (34.61)	882 (34.72)	891 (35.08)	879 (34.61)	882 (34.72)
Rear wheelarch height (Hr)	892 (35.12)	892 (35.12)	904 (35.59)	892 (35.12)	892 (35.12)	905 (35.63)	902 (35.51)	918 (36.14)	905 (35.63)	902 (35.51)

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

Brake Specifications

INFOID:000000007838388

Unit: mm (in)

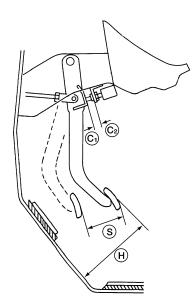
Engine Type		QR25DE	VQ40DE		
Front brake	Brake model	CLZ	CLZ33VA		
	Rotor outer diameter × thickness	283 × 28 (11.142 × 1.102)	296 × 28 (11.654 × 1.102)		
	Pad Length × width × thickness	140 × 50.5 × 10 (5.51 × 1.99 × 0.39)			
	Cylinder bore diameter (each)	46.4	(1.83)		
Rear brake	Brake model	CLZ14VA			
	Rotor outer diameter × thickness	286 × 18 (11.260 × 0.709)			
	Pad length \times width \times thickness	87.6 × 35.5 × 11.0 (3.449 × 1.398 × 0.433)			
	Cylinder bore diameter	38.1	(1.50)		
Control valve	Valve model	Electric brake f	orce distribution		
Brake booster	Booster model	C2	15T		
	Diaphragm diameter	215 (8.465)			

2012

Brake Pedal

INFOID:000000007838389

Unit: mm (in)



AWFIA0557ZZ

Pedal free height (H)	M/T	174.7 +10/-0 (6.88 +0.39/-0)
	A/T	182.1 +10/-0 (7.17 +0.39/-0)
Pedal full stroke (S)		153 (6.02)
Clearance between pedal stopper(C1) and threaded end of stop lamp switch and ASCD cance (C2) (if equipped)	l switch	0.74 - 1.96 (0.029 - 0.077)

Front Disc Brake

INFOID:000000007838386

		Unit: mm (in)
Engine type		QR25DE / VQ40DE
Brake model		CLZ33VA
Droke red	Standard thickness (new)	10.0 (0.394)
Brake pad	Minimum thickness	2.0 (0.079)
	Standard thickness (new)	28.0 (1.102)
Disc rotor	Minimum thickness	26.0 (1.024)
Discrotor	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)	
Engine type		QR25DE / VQ40DE	
Brake model		CLZ14VA	
Proko pod	Standard thickness (new)	11.0 (0.433)	
Brake pad	Minimum thickness	2.0 (0.079)	

Engine type		QR25DE / VQ40DE	
Brake model		CLZ14VA	
	Standard thickness (new)	18.0 (0.709)	
Disc rotor	Minimum 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 USA AND CANADA : Fluids and Lubricants

INFOID:000000007838380

QR25DE

Description		Capacity (Approximate)			
Description		Metric	US measure	Imp measure	
Fuel		80 <i>l</i>	21 1/8 gal	17 5/8 gal	
Engine oil	With oil filter change	4.6 <i>l</i>	4 7/8 qt	4 qt	
Drain and refill	Without oil filter change	4.3 l	4 1/2 qt	3 3/4 qt	
Dry engine (engine ove	rhaul)	5.0 l	5 1/4 qt	4 3/8 qt	
Cooling system	With reservoir at MAX level	9.4 l	10 qt	8 1/4 qt	
Automatic transmission fluid (ATF)		10.3 <i>l</i>	10 7/8 qt	9 1/8 qt	
Manual transmission flu (5 M/T)	uid (MTF)	2.89 <i>l</i>	6 1/8 pt	5 1/8 pt	
Rear final drive oil	C200	1.6 <i>l</i>	3 3/8 pt	2 7/8 pt	
Power steering fluid (PS	SF)	1.0 <i>l</i>	2 1/8 pt	1 3/4 pt	
Brake and clutch fluids		—	_	_	
Multi-purpose grease		—	—	_	
Windshield washer fluid		4.5 l	1 1/4 gal	1 gal	
Air conditioning system refrigerant		$0.70\pm0.05~\text{kg}$	$1.54\pm0.11~\text{lb}$	$1.54\pm0.11~\text{lb}$	
Air conditioning system oil		180 m ℓ	6.1 fl oz	6.3 fl oz	

VQ40DE

Description		Capacity (Approximate)			
		Metric	US measure	Imp measure	
		80 l	21 1/8 gal	17 5/8 gal	
Engine oil	With oil filter change	5.1 l	5 3/8 qt	4 1/2 qt	
Drain and refill	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 <i>l</i>	10 3/4 qt	9 qt	
Automatic transmission fluid (ATF)		10.3 <i>l</i>	10 7/8 qt	9 1/8 qt	
Manual transmission fluid	2WD	3.98 l	8 3/8 pt	7 pt	
(MTF) (6 M/T)	4WD	4.18 ℓ	8 7/8 pt	7 3/8 pt	

Description -			Capacity (Approximate)			
Description		Metric	US measure	Imp measure		
Rear final drive oil	C200	1.6 <i>l</i>	3 3/8 pt	2 7/8 pt		
	M226	2.01 <i>l</i>	4 1/4 pt	3 1/2 pt		
Transfer fluid	TX15B	2.0 l	2 1/8 qt	1 3/4 qt		
Front final drive oil		0.85 <i>l</i>	1 3/4 pt	1 1/2 pt		
Power steering fluid (PSF)		1.0 <i>l</i>	2 1/8 pt	1 3/4 pt		
Brake and clutch fluid		_	—	—		
Multi-purpose grease	Multi-purpose grease		—	—		
Windshield washer fluid		4.5 l	1-1/4 gal	1 gal		
A/C system refrigerant		$0.70\pm0.05~\text{kg}$	1.54 ± 0.11 lb	$1.54\pm0.11~\text{lb}$		
A/C system oil		180 m ℓ	6.1 fl oz	6.3 fl oz		

FOR MEXICO : Fluids and Lubricants

INFOID:000000007838383

VQ40DE

Description		Capacity (Approximate)			
Description		Metric	US measure	Imp measure	
Fuel		80 l	21 1/8 gal	17 5/8 gal	
Engine oil	With oil filter change	5.1 <i>l</i>	5 3/8 qt	4 1/2 qt	
Drain and refill	Without oil filter change	4.8 l	5 1/8 qt	4 1/4 qt	
Dry engine (engine overh	aul)	6.3 l	6 5/8 qt	5 1/2 qt	
Cooling system (with reservoir at "MAX" level)		10.2 ℓ	10 3/4 qt	9 qt	
Automatic transmission fluid (ATF)		10.3 <i>l</i>	10 7/8 qt	9 1/8 qt	
Rear final drive oil		2.01 <i>l</i>	4 1/4 pt	3 1/2 pt	
Transfer fluid		2.0 l	2 1/8 qt	1 3/4 qt	
Front final drive oil		0.85 <i>l</i>	1 3/4 pt	1 1/2 pt	
Power steering fluid (PSF	·)	1.0 <i>l</i>	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		$0.70\pm0.05~\text{kg}$	$1.54\pm0.11~\text{lb}$	$1.54\pm0.11~\text{lb}$	
A/C system oil		180 m <i>l</i>	6.1 fl oz	6.3 fl oz	