

NISSAN

CUBE

MODEL Z12 SERIES

QUICK REFERENCE INDEX

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	PCS Power Control System
	CHG Charging System
	PG Power Supply, Ground & Circuit Elements
N DRIVER INFORMATION & MULTIMEDIA	MWI Meter, Warning Lamp & Indicator
	WCS Warning Chime System
	AV Audio, Visual & Navigation System
O CRUISE CONTROL & DRIVER ASSISTANCE	CCS Cruise Control System
P MAINTENANCE	MA Maintenance

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FOREWORD

This manual contains maintenance and repair procedure for the 2013 NISSAN CUBE.

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 MOTOR CO., LTD.



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:

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Technical Service Information
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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) YES 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: _____

CITY: _____ STATE/PROV./COUNTRY: _____ ZIP/POSTAL CODE: _____

QUICK REFERENCE CHART CUBE

PFP:00000

ENGINE TUNE-UP DATA (MR18DE)

ELS0003W

Engine model		MR18DE
Firing order		1-3-4-2
Idle speed CVT (In "P or N" position) M/T (In Neutral position)	rpm	700 ± 50
Ignition timing (BTDC at idle speed)		13° ± 5°
Tensions of drive belt		Belt tension is not necessary, as it is automatically adjusted by drive belt auto-tensioner.
Radiator cap relief pressure	kPa (kg/cm ² , psi)	
Standard		78 - 98 (0.8 - 1.0, 11 - 14)
Limit		59 (0.6, 9)
Cooling system leakage testing pressure	kPa (kg/cm ² , psi)	98 (1.0, 14)
Compression pressure	kPa (kg/cm ² , psi)/250 rpm	
Standard		1,500 (15.3, 217.5)
Minimum		1,200 (12.2, 174)
Differential limit between cylinders		100 (1.0, 14.5)
Spark plug (Iridium-tipped type)	Make	DENSO
	Standard type	FXE20HR11
	Gap (Nominal)	mm (in)
	Standard	1.1 (0.043)
	Limit	1.4 (0.055)

FRONT WHEEL ALIGNMENT

ELS0003X

Camber Degree minute (Decimal degree)		Minimum	-0° 55' (-0.92°)
		Nominal	-0° 10' (-0.17°)
		Maximum	0° 35' (0.58°)
		Left and right difference	0° 45' (0.75°)
Caster Degree minute (Decimal degree)		Minimum	3° 55' (3.92°)
		Nominal	4° 40' (4.67°)
		Maximum	5° 25' (5.41°)
		Left and right difference	0° 45' (0.75°)
Kingpin inclination Degree minute (Decimal degree)		Minimum	9° 10' (9.17°)
		Nominal	9° 55' (9.92°)
		Maximum	10° 40' (10.66°)
Toe-in	Total toe-in Distance	Minimum	Out 1.0 mm (Out 0.03 in)
		Nominal	In 1.0 mm (0.04 in)
		Maximum	In 3.0 mm (0.11 in)
	Total toe-angle Degree minute (Decimal degree)	Minimum	Out 0° 06' (Out 0.10°)
		Nominal	In 0° 06' (In 0.10°)
		Maximum	In 0° 17' (In 0.28°)

Measure value under unladen* conditions.

*: Fuel, engine coolant and lubricant are full. Spare tire, jack, hand tools and mats are in designated positions.

REAR WHEEL ALIGNMENT

ELS0003Y

Camber Degree minute (Decimal degree)		Minimum	-2° 00' (-2.01°)
		Nominal	-1° 31' (-1.51°)
		Maximum	-1° 01' (-1.01°)
Toe-in	Total toe-in Distance	Minimum	Out 1.0 mm (Out 0.039 in)
		Nominal	In 3.0 mm (In 0.118 in)
		Maximum	In 7.0 mm (In 0.275 in)
	Total toe-angle Degree minute (Decimal degree)	Minimum	Out 0° 06' (Out 0.10°)
		Nominal	In 0° 17' (In 0.28°)
		Maximum	In 0° 39' (In 0.65°)

Measure value under unladen* conditions.

*: Fuel, engine coolant and lubricant are full. Spare tire, jack, hand tools and mats are in designated positions.

BRAKE PEDAL

Unit: mm (in.)

Brake pedal height	M/T	162.3 - 172.3 (6.39 - 6.78)
	CVT	172.4 - 182.4 (6.79 - 7.18)
Depressed brake pedal height [Depressing 490 N (50 kg, 110 lb) while turning the engine ON]	M/T	80 (3.15) or more
	CVT	85 (3.35) or more

FRONT DISC BRAKE

Unit: mm (in.)

Item		Limit
Brake pad	Wear thickness	2.0 (0.079)
Disc rotor	Wear thickness	22.0 (0.866)

REAR DRUM BRAKE

Unit: mm (in.)

Item		Limit
Brake lining	Wear thickness	1.5 (0.059)
Brake drum	Wear inner diameter	230.0 (9.06)

REFILL CAPACITIES

ELS00040

UNIT		Liter	US measure
Fuel tank		50.0	13-1/4 gal
Engine coolant capacity (With reservoir tank at "MAX" level)	CVT models	7.1	7-1/2 qt
	M/T models	6.8	7-1/4 qt
Engine oil	Drain and refill		
	With oil filter change	4.1	4-3/8 qt
	Without oil filter change	3.8	4 qt
	Dry engine (Overhaul)	4.9	5-1/8 qt
Transmission	CVT	7.4	7-7/8 qt
	M/T	2	4-1/4 pt
Air conditioning system	Compressor oil	0.12	4.1 fl oz
	Refrigerant	0.45 kg	1.0 lb