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NISSAN VERSA NOTE

MODEL E12 SERIES

QUICK REFERENCE INDEX

FOREWORD

This manual contains maintenance and repair procedure for the 2014 NISSAN VERSA NOTE.

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 MEXICANA, S.A. DE C.V.
AFTER SALES DEPARTMENT
SERVICE TECHNICAL DEVELOPMENT DIVISION
MEXICO D.F.

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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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.*

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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: _____

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Is the organization of the manual clear and easy to follow? (circle your answer) YES NO

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What information should be included in NISSAN Service Manuals to better support you in servicing or repairing customer vehicles?

_____

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_____

DATE: _____ YOUR NAME: _____ POSITION: _____

DEALER: _____ DEALER NO.: _____ ADDRESS: _____

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

QUICK REFERENCE CHART: VERSA NOTE

Engine Tune-up Data

INFOID:0000000009809546

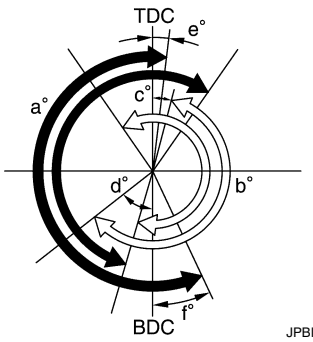
GENERAL SPECIFICATIONS

Engine type		HR16DE
Cylinder arrangement		In-line 4
Displacement cm^3 (cu in)		1,598 (97.51)
Bore and stroke mm (in)		78.0× 83.6 (3.071 ×3.291)
Valve arrangement		DOHC
Firing order		1-3-4-2
Number of piston rings	Compression	2
	Oil	1
Compression ratio		9.8:1
Compression pressure kPa (kg/cm^2, psi) / 200 rpm	Standard	1,510 (15.4, 219)
	Minimum	1,270 (12.95, 184)
	Differential limit between cylinders	100 (1.0, 14.5)

Valve Timing

Unit: degree

Valve timing
⇦: Intake valve
⬅: Exhaust valve



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a	b	c	d	e	f
216	228	11 (–27) ATDC	59 (-21) ABDC	-1 (49) ATDC	37 (-13) BBDC

( ): Valve timing control “ON”

Drive Belt

INFOID:0000000009809547

DRIVE BELT

Belt Deflection

Location		Deflection adjustment *		Unit: mm (in)
		Used belt		New belt
		Limit	After adjusted	
Drive belt	With A/C	10.0 (0.39)	4.9 - 5.2 (0.19 - 0.20)	4.1 - 4.4 (0.16 - 0.17)
	Without A/C	9.1 (0.36)	4.3 - 4.7 (0.17 - 0.19)	3.7 - 3.9 (0.146 - 0.154)
Applied pushing force		98.1 N (10.0 kg-f, 22.0 lb-f)		

*: When engine is cold.

Belt Tension and Frequency

Location		Tension adjustment *		Unit: N (kg-f, lb-f)	Frequency adjustment *		Unit: Hz
		Used belt		New belt	Used belt		New belt
		Limit	After adjusted		Limit	After adjusted	
Drive belt	With A/C	350 (35.7, 78.7)	881 - 951 (89.9 - 97.0, 198.0 - 213.8)	1070 - 1138 (109.1 - 116.1, 240.5 - 255.8)	145.5	230.5 - 239.5	254 - 262
	Without A/C		876 - 964 (89.4 - 98.3, 196.9 - 216.7)	1064 - 1152 (108.5 - 117.5, 239.2 - 259.0)	162	256.5 - 268.5	282.5 - 293.5

*: When engine is cold.

Spark Plug

INFOID:0000000009809548

SPARK PLUG (PLATINUM-TIPPED TYPE)

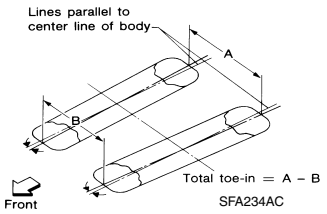
Make	NGK
Standard type*	PLZKAR6A-11
Gap (nominal)	1.1 mm (0.043 in)

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

Front Wheel Alignment (Unladen*1)

INFOID:0000000009809545

Camber Degree minute (Decimal degree)	Minimum	−0° 50′ (−0.83°)
	Nominal	−0° 05′ (−0.08°)
	Maximum	0° 40′ (0.67°)
	(LH) and (RH) difference*2	−0° 45′ (−0.75°) - 0° 45′ (0.75°)
Caster Degree minute (Decimal degree)	Minimum	3° 00′ (3.00°)
	Nominal	3° 45′ (3.75°)
	Maximum	4° 30′ (4.50°)
	(LH) and (RH) difference*2	−0° 45′ (−0.75°) - 0° 45′ (0.75°)
Kingpin inclination Degree minute (Decimal degree)	Minimum	11° 00′ (11.00°)
	Nominal	11° 45′ (11.75°)
	Maximum	12° 30′ (12.50°)



Total toe-in	Distance (A - B)	Minimum	0 mm (0.00 in)
		Nominal	In 1 mm (In 0.04 in)
		Maximum	In 2 mm (In 0.08 in)
	Angle (LH and RH) Degree minute (Decimal degree)	Minimum	0° 00′ 00″ (0.00°)
		Nominal	In 0° 03′ 00″ (In 0.05°)
		Maximum	In 0° 06′ 00″ (In 0.10°)

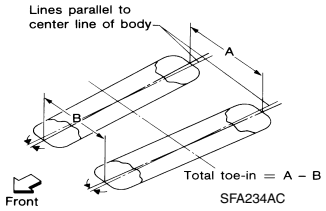
*1: Fuel, engine coolant and lubricant are full. Spare tire, jack, hand tools and mats are in designated positions.

*2: The difference when assuming the (LH) side is the standard.

Rear Wheel Alignment (Unladen*1)

INFOID:0000000009809544

Camber Degree minute (Decimal degree)	Minimum	−1° 55′ (−1.92°)
	Nominal	−1° 25′ (−1.42°)
	Maximum	−0° 55′ (−0.92°)



Total toe-in	Distance (A - B)	Minimum	Out 2.0 mm (Out 0.079 in)
		Nominal	In 2.0 mm (In 0.079 in)
		Maximum	In 6.0 mm (In 0.236 in)
	Angle (LH and RH)*2 Degree minute (Decimal degree)	Minimum	Out 0° 45′ (Out 0.75°)
		Nominal	In 0° 10′ (In 0.17°)
		Maximum	In 0° 35′ (In 0.58°)

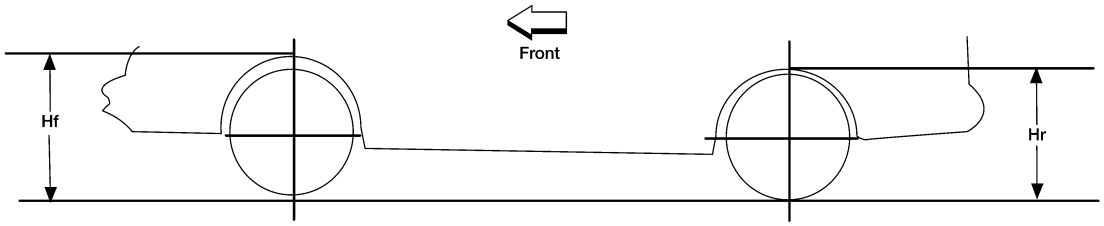
*1: Fuel, engine coolant, and lubricants are full. Spare tire, jack, hand tools, and mats are in designated positions.

*2: Since an adjustment mechanism is not included, the value of the left and right wheels must be used as the standard value.

Wheelarch Height (Unladen*)

INFOID:0000000009809543

Unit: mm (in)



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Tire size	185/65R15	195/55R16
Front (Hf)	690 (27.17)	687 (27.05)
Rear (Hr)	679 (26.73)	678 (26.69)

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

Brake Specifications

INFOID:0000000009809541

Unit: mm (in)

Front brake	Cylinder bore diameter	54.025 (2.13)
	Pad length × width × thickness	115.0 × 42.0 × 9.0 (4.53 × 1.654 × 0.354)
	Rotor outer diameter × thickness	260 × 22.0 (10.24 × 0.87)
Rear brake	Cylinder bore diameter	19.05 (3/4)
	Lining length × width × thickness	Trailing: 172 × 37 × 4.8 (6.77 × 1.46 × 0.19) Leading: 155 × 37 × 4.8 (6.10 ×1.46 × 0.19)
	Drum inner diameter - new	203.2 (8.00)

Master cylinder	Cylinder bore diameter	22.23 (0.875)
Control valve	Valve type	Electric brake force distribution
Brake booster	Diaphragm diameter	255 (10)

Brake Pedal

INFOID:0000000009809542

Unit: mm (in)

Item	Standard
Brake pedal height	158 ±5 (6.22 ±0.20)
Clearance between brake pedal lever and the stop lamp switch threaded end	0.2 – 1.96 (0.008 – 0.077)
Brake pedal full stroke	128 (5.04)

Front Disc Brake

INFOID:0000000009809539

Unit: mm (in)

Item		Limit
Brake pad	Wear thickness	2.0 (0.08)
Disc rotor	Wear thickness	20.0 (0.787)
	Thickness variation (measured at 8 positions)	0.013 (0.001)
	Runout (with it attached to the vehicle)	0.055 (0.002)

Rear Drum Brake

INFOID:0000000009809540

Unit: mm (in)

Item		Limit
Brake lining	Wear thickness	1.0 (0.04)
Brake drum	Wear inner diameter- maximum	204.2 (8.04)

Fluids and Lubricants

INFOID:0000000009809538

Description			Capacity (Approximate)		
			Metric	US measure	Imp measure
Fuel			41.0 ℓ	10-7/8 gal	9 gal
Engine oil Drain and refill	With oil filter change		3.5 ℓ	3-3/4 qt	3-1/8 qt
	Without oil filter change		3.2 ℓ	3-3/8 qt	2-7/8 qt
Dry engine (engine overhaul)			3.5 ℓ	3-3/4 qt	3-1/8 qt
Cooling system	With reservoir tank at “MAX” level	CVT	7.3 ℓ	7-3/4 qt	6-3/8 qt
		M/T	6.7 ℓ	7-1/8 qt	5-7/8 qt
	Reservoir tank capacity (at “MAX” level)		0.7 ℓ	3/4 qt	5/8 qt
Manual transaxle fluid (MTF)			2.67 ℓ	5-5/8 pt	4-3/4 pt
CVT fluid			6.9 ℓ	7-1/4 qt	6-1/8 qt
Brake and clutch fluid			—	—	—
Multi-purpose grease			—	—	—
Windshield washer fluid			4.2 ℓ	4-1/2 qt	3-3/4 qt
Air conditioning system refrigerant			0.4 kg	0.9 lb	0.9 lb
Air conditioning system oil			110 - 130 mℓ	3.7 - 4.4 fl oz	3.9 - 4.6 fl oz