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NISSAN NOTE

MODEL E12 SERIES

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GI General Information
EM Engine Mechanical
LU Engine Lubrication System
CO Engine Cooling System
EC Engine Control System
FL Fuel System
EX Exhaust System
STR Starting System
ACC Accelerator Control System
CL Clutch
TM Transaxle & Transmission
DLN Driveline
FAX Front Axle
RAX Rear Axle
FSU Front Suspension
RSU Rear Suspension
SCS Suspension Control System
WT Road Wheels & Tires
BR Brake System
PB Parking Brake System
BRC Brake Control System
ST Steering System
STC Steering Control System
SB Seat Belt
SBC Seat Belt Control System
SR SRS Airbag
SRC SRS Airbag Control System
VTL Ventilation System
HA Heater & Air Conditioning System
HAC Heater & Air Conditioning Control System
INT Interior
IP Instrument Panel
SE Seat
ADP Automatic Drive Positioner
DLK Door & Lock
SEC Security Control System
GW Glass & Window System
PWC Power Window Control System
RF Roof
EXT Exterior
BRM Body Repair Manual
MIR Mirrors
EXL Exterior Lighting System
INL Interior Lighting System
VW Wiper & Washer
DEF Defogger
HRN Horn
PWO Power Outlet
BCS Body Control System
LAN LAN System
PCS Power Control System
CHG Charging System
PG Power Supply, Ground & Circuit Elements
MWI Meter, Warning Lamp & Indicator
WCS Warning Chime System
SN Sonar System
AV Audio, Visual & Navigation System
CCS Cruise Control System
MA Maintenance
IDX Alphabetical Index

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FOREWORD

This manual contains maintenance and repair procedures for the 2016 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.



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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/COUNTRY: _____ ZIP/POSTAL CODE: _____

QUICK REFERENCE CHART: VERSA NOTE

Engine Tune-up Data: QR25DE

INFOID:0000000012945611

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)

Drive Belt

INFOID:0000000012945610

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:0000000012945609

SPARK PLUG (PLATINUM-TIPPED TYPE)

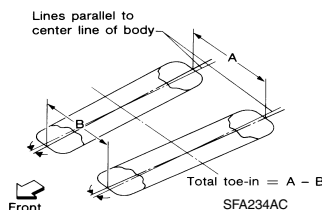
Make	NGK
Standard type*	PLZKAR6A-11
Gap (nominal)	1.1 mm (0.043 in)

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

Front Wheel Alignment (Unladen*¹)

INFOID:0000000012945608

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	Out 1 mm (Out 0.04 in)
		Nominal	In 1 mm (In 0.04 in)
		Maximum	In 3 mm (In 0.12 in)
	Angle (LH and RH) Degree minute (Decimal degree)	Minimum	Out 0° 05' (Out 0.08°)
		Nominal	In 0° 05' (In 0.08°)
		Maximum	In 0° 15' (In 0.24°)

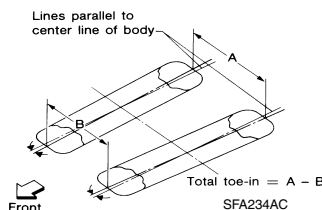
*1: Fuel, engine coolant and lubricant are full. Spare tire, jack, hand tools and mats are in designated positions.

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

Rear Wheel Alignment (Unladen*¹)

INFOID:0000000012945607

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



QUICK REFERENCE CHART: VERSA NOTE

2016

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° 15' (Out 0.25°)
		Nominal	In 0° 10' (In 0.17°)
		Maximum	In 0° 35' (In 0.58°)

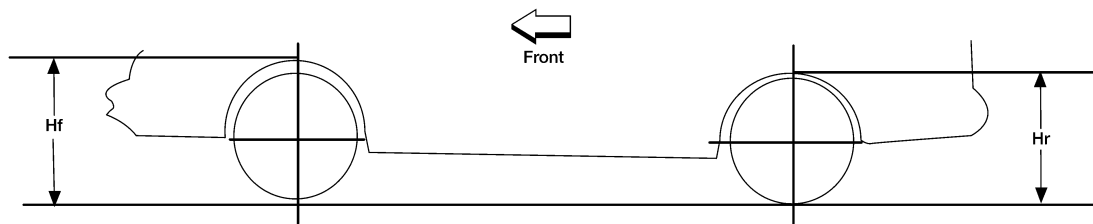
*1: Fuel, engine coolant, and lubricants are full. Spare tire, jack, hand tools, and mats are in designated positions.

*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:0000000012945606

Unit: mm (in)



LEIA0085E

Tire size	185/65R15	195/55R16
Front (Hf)	692 (27.24)	691 (27.20)
Rear (Hr)	678 (26.69)	677 (26.65)

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

Brake Specifications

INFOID:0000000012945605

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:0000000012945604

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)
Clearance between brake pedal lever and the brake pedal position switch threaded end (if equipped)	0.2 – 1.96 (0.008 – 0.077)
Brake pedal full stroke	128 (5.04)

Front Disc Brake

INFOID:0000000012945603

Unit: mm (in)

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

*To check if rotor imbalance, rotor runout or rotor deformation exists.

Rear Drum Brake

INFOID:0000000012945602

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:0000000012945601

The following are approximate capacities. The actual capacities may be slightly different. When refilling, follow the procedures described elsewhere in this manual.

Fluid type			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)			4.0 ℓ	4-1/4 qt	3-1/2 qt
Engine coolant	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			3.5 ℓ	3-3/4 qt	3-1/8 qt
Air conditioning system refrigerant			0.4 kg	0.9 lb	0.9 lb
Air conditioning system oil			110 - 130 m ℓ	3.7 - 4.4 fl oz	3.9 - 4.6 fl oz