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NISSAN NOTE

MODEL E12 SERIES

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QUICK REFERENCE INDEX

| | |
|--|---|
| A GENERAL INFORMATION | GI General Information |
| B ENGINE | 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 |
| C | |
| D TRANSMISSION & DRIVE-LINE | CL Clutch |
| | TM Transaxle & Transmission |
| | DLN Driveline |
| | FAX Front Axle |
| | RAX Rear Axle |
| E SUSPENSION | FSU Front Suspension |
| | RSU Rear Suspension |
| | SCS Suspension Control System |
| | WT Road Wheels & Tires |
| | BR Brake System |
| F BRAKES | PB Parking Brake System |
| | BRC Brake Control System |
| | ST Steering System |
| G STEERING | STC Steering Control System |
| | SB Seat Belt |
| H RESTRAINTS | SBC Seat Belt Control System |
| | SR SRS Airbag |
| | SRC SRS Airbag Control System |
| | VTL Ventilation System |
| I VENTILATION, HEATER & AIR CONDITIONER | HA Heater & Air Conditioning System |
| | HAC Heater & Air Conditioning Control System |
| | INT Interior |
| J BODY INTERIOR | IP Instrument Panel |
| | SE Seat |
| | ADP Automatic Drive Positioner |
| K BODY EXTERIOR, DOORS, ROOF & VEHICLE SECURITY | DLK Door & Lock |
| | SEC Security Control System |
| | GW Glass & Window System |
| | PWC Power Window Control System |
| | RF Roof |
| | EXT Exterior |
| | BRM Body Repair Manual |
| L DRIVER CONTROLS | MIR Mirrors |
| | EXL Exterior Lighting System |
| | INL Interior Lighting System |
| | WW Wiper & Washer |
| | DEF Defogger |
| | HRN Horn |
| | PWO Power Outlet |
| M ELECTRICAL & POWER CONTROL | 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 |
| N DRIVER INFORMATION & MULTIMEDIA | SN Sonar System |
| | AV Audio, Visual & Navigation System |
| | CCS Cruise Control System |
| O CRUISE CONTROL | MA Maintenance |
| P MAINTENANCE | IDX Alphabetical Index |
| Q INDEX | |

A

B

C

D

E

F

G

H

I

J

K

L

M

N

O

P

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)

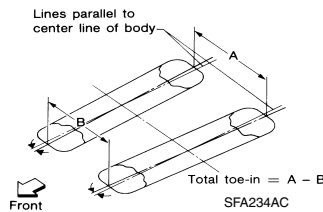
| | |
|----------------|-------------------|
| Make | NGK |
| Standard type* | PLZKAR6A-11 |
| Gap (nominal) | 1.1 mm (0.043 in) |

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

Front Wheel Alignment (Unladen*¹)

INFOID:000000012945608

| | | |
|---|---|-----------------------------------|
| 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°) |

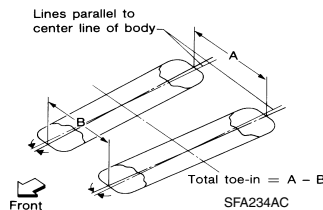
*1: Fuel, engine coolant and lubricant are full. Spare tire, jack, hand tools and mats are in designated positions.

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

Rear Wheel Alignment (Unladen*¹)

INFOID:000000012945607

| | | |
|--|---------|------------------|
| 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°) |

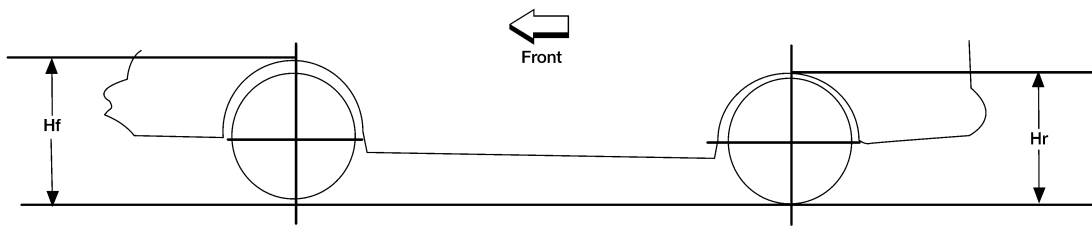
*1: Fuel, engine coolant, and lubricants are full. Spare tire, jack, hand tools, and mats are in designated positions.

*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) |

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Front Disc Brake

INFOID:000000012945603

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) |

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

Rear Drum Brake

INFOID:000000012945602

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:000000012945601

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 | |