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NISSAN SENTRA

MODEL B17 SERIES

QUICK REFERENCE INDEX

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	RSU Rear Suspension
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	DEF Defogger
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	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
	DMS Drive Mode System
P MAINTENANCE	MA Maintenance

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FOREWORD

This manual contains maintenance and repair procedures for the 2015 NISSAN SENTRA.

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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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
39001 Sunrise Drive, P.O. Box 9200
Farmington Hills, MI USA 48331
FAX: (248) 488-3880

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: SENTRA

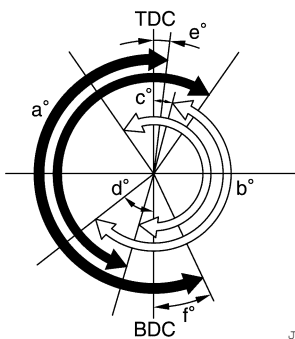
Engine Tune-up Data

INFOID:0000000012018689

GENERAL SPECIFICATIONS

Engine type		MRA8DE
Cylinder arrangement		In-line 4
Displacement cm ³ (cu. in)		1,798 (109.7)
Bore and stroke mm (in)		79.7x90.1 (3.138x3.547)
Valve arrangement		DOHC
Firing order		1-3-4-2
Number of piston rings	Compression	2
	Oil	1
Compression ratio		9.9
Compression pressure kPa (bar, kg/cm ² , psi)/250 rpm	Standard	1,380 (13.8, 14.1, 200.2)
	Minimum	1,220 (12.2, 12.4, 176.9)
	Differential limit between cylinders	100 (1.0, 1.0, 14.5)

Unit: degree

Valve timing ↶ Intake valve ↷ Exhaust valve						
	a	b	c	d	e	f
	220	228	-4 (35) ATDC	52 (13) ABDC	4 (64) ATDC	36 (-24) BBDC

(): Valve timing control "ON"

Drive Belt

INFOID:0000000012018690

DRIVE BELT

Tension of drive belt	Belt tension is not necessary, as it is automatically adjusted by drive belt auto-tensioner.
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Spark Plug

INFOID:0000000012018688

SPARK PLUG

Unit: mm (in)

Make		NGK
Standard type*		DILKAR6A-11 (California) or PLZKAR6A-11 (except California)
Gap (Nominal)	Standard	0.9 (0.035)
	Limit	1.1 (0.043)

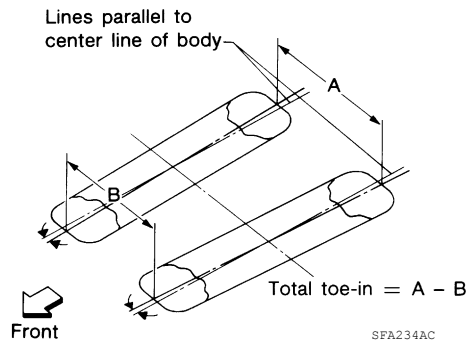
*:Always check with the Parts Department for the latest parts information.

Front Wheel Alignment (Unladen*¹)

INFOID:0000000012018687

UNITED STATES and CANADA

Camber Degree minute (Decimal degree)	Minimum	-1° 04' (-1.07°)
	Nominal	-0° 25' (-0.42°)
	Maximum	0° 14' (0.23°)
	(LH) and (RH) difference* ²	-0° 35' (-0.58°) - 0° 35' (0.58°)
Caster Degree minute (Decimal degree)	Minimum	4° 05' (4.08°)
	Nominal	4° 50' (4.83°)
	Maximum	5° 35' (5.58°)
	(LH) and (RH) difference* ²	-0° 45' (-0.75°) - 0° 45' (0.75°)
Kingpin inclination Degree minute (Decimal degree)	Minimum	11° 20' (11.33°)
	Nominal	12° 05' (12.08°)
	Maximum	12° 50' (12.83°)



Total toe-in	Distance (A - B)	Minimum	0 mm (0.0 in)
		Nominal	In 2 mm (In 0.08 in)
		Maximum	In 4 mm (In 0.16 in)
	Angle (LH and RH) Degree minute (Decimal degree)	Minimum	0° 0' (0°)
		Nominal	In 0° 10' (In 0.17°)
		Maximum	In 0° 20' (In 0.34°)

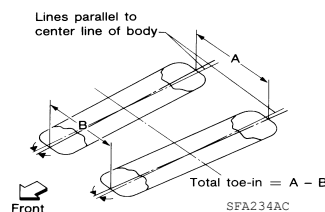
*1: Fuel, engine coolant, and lubricants are full. Spare tire, jack, hand tools, and mats are in designated positions.

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

Rear Wheel Alignment (Unladen*¹)

INFOID:0000000012018686

Camber Degree minute (Decimal degree)	Minimum	-2° 00' (-2.00°)
	Nominal	-1° 30' (-1.50°)
	Maximum	-1° 00' (-1.00°)



QUICK REFERENCE CHART: SENTRA

2015

Total toe-in	Distance (A - B)	Minimum	Out 1.0 mm (Out 0.039 in)
		Nominal	In 3.5 mm (In 0.138 in)
		Maximum	In 8.0 mm (In 0.315 in)
	Angle (LH and RH)* ² Degree minute (Decimal degree)	Minimum	Out 0° 03' (Out 0.05°)
		Nominal	In 0° 20' (In 0.33°)
		Maximum	In 0° 43' (In 0.72°)

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

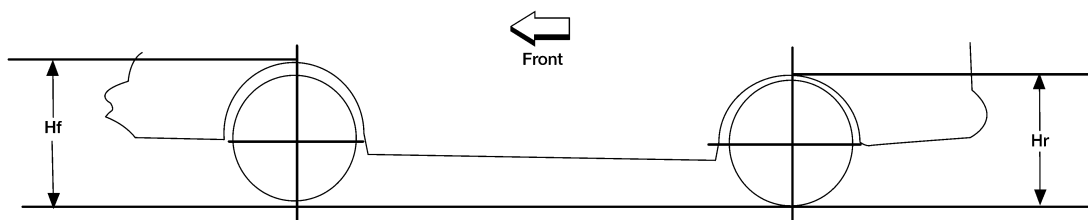
*2: Since an adjustment mechanism is not included, the value of the left and right wheels (both wheels) must be used as the standard value.

Wheelarch Height (Unladen*)

INFOID:0000000012018685

UNITED STATES

Unit: mm (in)



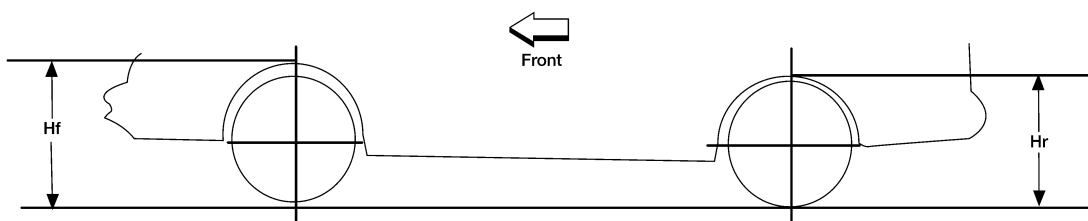
LEIA0085E

Transaxle	6M/T or CVT	CVT	
Tire size	205/55R16 (Except FE)	205/55R16 (FE)	205/50R17
Front (Hf)	703 (27.68)	706 (27.80)	708 (27.87)
Rear (Hr)	703 (27.68)	706 (27.80)	707 (27.83)

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

CANADA

Unit: mm (in)



LEIA0085E

Transaxle	6M/T or CVT	CVT
Tire size	205/55R16	205/50R17
Front (Hf)	704 (27.72)	709 (27.91)
Rear (Hr)	704 (27.72)	708 (27.87)

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

QUICK REFERENCE CHART: SENTRA

2015

Brake Specifications

INFOID:0000000012018684

Unit: mm (in)

Front brake	Cylinder bore diameter	57.2 (2.252)
	Pad length × width × thickness	123.6 × 50.0 × 11.0 (4.866 × 1.969 × 0.433)
	Rotor outer diameter × thickness	280 × 24.0 (11.024 × 0.945)
Rear brake - drum	Cylinder bore diameter	19.05 (0.750)
	Lining length × width × thickness	Leading: 183.2 × 40 × 4.9 (7.213 × 1.575 × 0.193) Trailing: 219 × 40 × 4.9 (8.622 × 1.575 × 0.193)
	Drum inner diameter - new	228 (8.976)
Rear brake - disc	Cylinder bore diameter	34.93 (1.375)
	Pad length × width × thickness	83.0 × 33.0 × 8.5 (3.268 × 1.299 × 0.335)
	Rotor outer diameter × thickness	292 × 9.0 (11.496 × 0.354)
Master cylinder	Cylinder bore diameter	23.81 (0.937)
Control valve	Valve type	Electric brake force distribution
Brake booster	Diaphragm diameter	257 (10.118)

Brake Pedal

INFOID:0000000012018683

Unit: mm (in)

Item	Standard
Brake pedal height	160.4 – 170.4 (6.31 – 6.71)
Depressed brake pedal height [Depressing 490 N (50 kg, 110 lb) while turning the engine ON]	70.0 (2.756) or more
Clearance between stop lamp switch and brake pedal position switch threaded end and the brake pedal lever	0.74 – 1.96 (0.03 – 0.08)
Brake pedal play	3 – 11 (0.12 – 0.43)

Front Disc Brake

INFOID:0000000012018680

Unit: mm (in)

Item	Limit
Brake pad	Wear thickness 2.0 (0.079)
Disc rotor	Wear thickness 22.0 (0.866)
	Thickness variation (measured at 8 positions) 0.008 (0.0003)
	Runout (with it attached to the vehicle) 0.035 (0.0014)

Rear Drum Brake

INFOID:0000000012018679

Unit: mm (in)

Item	Limit
Brake lining	Wear thickness 1.0 (0.039)
Brake drum	Wear inner diameter- maximum 230 (9.055)

Rear Disc Brake

INFOID:0000000012018678

Unit: mm (in)

Item	Limit
Brake pad	Wear thickness 1.0 (0.039)

QUICK REFERENCE CHART: SENTRA

2015

Item		Limit
Disc rotor	Wear thickness	8.0 (0.315)
	Thickness variation (measured at 8 positions)	0.016 (0.0006)
	Runout (with it attached to the vehicle)	0.1 (0.0039)

Fluids and Lubricants

INFOID:0000000012018677

NOTE:

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

Description		Capacity (Approximate)		
		Metric	US measure	Imp measure
Fuel		50.0 ℓ	13-1/4 gal	11 gal
Engine oil Drain and refill	With oil filter change	4.0 ℓ	4-1/4 qt	3-1/2 qt
	Without oil filter change	3.8 ℓ	4 qt	3-3/8 qt
Dry engine (engine overhaul)		4.8 ℓ	5-1/8 qt	4-1/4 qt
Cooling system (with reservoir tank at MAX level)	CVT model	6.6 ℓ	7 qt	5-7/8 qt
	M/T model			
Reservoir tank engine coolant capacity (at MAX level)		0.6 ℓ	5/8 qt	1/2 qt
CVT fluid		6.9 ℓ	7-1/4 qt	6-1/8 qt
Manual transaxle gear oil		2.0 ℓ	4-1/4 pt	3-1/2 pt
Brake and clutch fluid		—	—	—
Multi-purpose grease		—	—	—
Windshield washer fluid		4.5 ℓ	4-3/4 qt	4 qt
Air conditioner system refrigerant		0.45 ± 0.05 kg	0.992 ± 0.110 lb	0.992 ± 0.110 lb
Air conditioner system oil		90 m ℓ	3.0 fl oz	3.2 fl oz