Edition: October 2013	QUICK REFERENCE INDEX		
Revision: October 2013	A GENERAL INFORMATION	GI General Information	
Pub. No. SM14E00B17U0	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	
NISSAN	C HYBRID	HBC Hybrid Control System	
INISSAIN	D TRANSMISSION & DRIVE-	CL Clutch	
CENTOA	LINE	TM Transaxle & Transmission	
SENTRA		DLN Driveline	
MODEL B17 SERIES		FAX Front Axle	
WODEL BIT SERIES		RAX Rear Axle	
	E SUSPENSION	FSU Front Suspension	
		RSU Rear Suspension	
		SCS Suspension Control System	
	F BRAKES	WT Road Wheels & Tires	
	F BRAKES	BR Brake System	
		PB Parking Brake System BRC Brake Control System	
	G STEERING	ST Steering System	
	6 STEERING	STC Steering Control System	G
	H RESTRAINTS	SB Seat Belt	
	II RECINANTO	SBC Seat Belt Control System	
		SRS SRS Airbag	
		SRC SRS Airbag Control System	
	I VENTILATION, HEATER &	VTL Ventilation System	
	AIR CONDITIONER	HA Heater & Air Conditioning System	
		HAC Heater & Air Conditioning Control System	
	J BODY INTERIOR	INT Interior	
		IP Instrument Panel	
		SE Seat	
		ADP Automatic Drive Positioner	
	K BODY EXTERIOR, DOORS, ROOF & VEHICLE	DLK Door & Lock	
	SECURITY	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	
	M ELECTRICAL & POWER	PWO Power Outlet	
All rights reserved. No part	CONTROL	BCS Body Control System	
of this Service Manual may		LAN LAN System	
be reproduced or stored in a		PCS Power Control System	
retrieval system, or transmit-		CHG Charging System	
ted in any form, or by any		PG Power Supply, Ground & Circuit Elements	
means, electronic, mechani-	N DRIVER INFORMATION &	MWI Meter, Warning Lamp & Indicator	
cal, photo-copying, record-	MULTIMEDIA	WCS Warning Chime System	
ing or otherwise, without the		SN Sonar System	
-		AV Audio, Visual & Navigation System	
prior written permission of	O CRUISE CONTROL & DRIVER ASSISTANCE	CCS Cruise Control System	
Nissan Mexicana, S.A. DE		DMS Drive Mode System	
C.V.	P MAINTENANCE	MA Maintenance	

FOREWORD

This manual contains maintenance and repair procedure for the 2014 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.



Nissan Mexicana S.A. de C.V. Av. Insurgentes Sur No. 1958 Col. Florida C.P. 01030 México D.F.

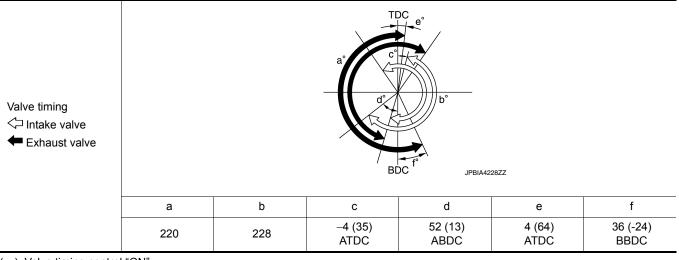
PLEASE HELP MAKE THIS	SERVICE MANUAL BETTER!
Your comments are important to NISSAN and	will help us to improve our Service Manuals.
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	~
SERVICE MANUAL: Model: PUBLICATION NO. (Refer to Quick Reference In	
Please describe any Service Manual issues or pro	-
	e include a copy of each page, marked with your comments.
	e include a copy of each page, marked with your comments.
Are the trouble diagnosis procedures logical ar	
	ase 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 eas	y to follow? (circle your answer) YES NO
Please comment:	
What information should be included in NISSA	N Service Manuals to better support you in servicing or
repairing customer vehicles?	
DATE: YOUR NAME:	POSITION:
DEALER: DEALER NO.:	ADDRESS:
	DUNTRY: ZIP/POSTAL CODE:
	211/1 001/12 00DE

Engine Tune-up Data

INFOID:000000010409363

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 picton ringo	Compression	2
Number of piston rings	Oil	1
Compression ratio		9.9
0	Standard	1,380 (13.8, 14.1, 200.2)
Compression pressure kPa (bar, kg/cm ² , psi)/250 rpm	Minimum	1,220 (12.2, 12.4, 176.9)
	Differential limit between cylinders	100 (1.0, 1.0, 14.5)
	· · · ·	Unit: c



(): Valve timing control "ON"

Drive Belt

DRIVE BELT

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

Spark Plug

INFOID:000000010409361

INFOID:000000010409362

SPARK PLUG

Unit: mm (in)

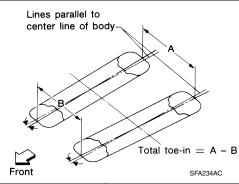
Make		NGK
Standard type*		DILKAR6A-11 (California) or PLZKAR6A-11 (except California)
Gap (Nominal)	Standard	0.9 (0.035)
	Limit	1.1 (0.043)

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

Front Wheel Alignment (Unladen*1)

UNITED STATES and CANADA

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



Total toe-in Angle (LH and RH) Degree minute		Minimum	In 1 mm (In 0.04 in)
	Distance (A - B)	Nominal	In 2 mm (In 0.08 in)
		Maximum	In 3 mm (In 0.12 in)
	Angle (LH and RH)	Minimum	ln 0° 04′ (ln 0.07°)
	Degree minute	Nominal	In 0° 10′ (In 0.17°)
	(Decimal degree)	Maximum	ln 0° 16′ (ln 0.27°)

*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:000000010409359

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

INFOID:000000010409360

	Lines parallel to center line of body	otal toe-in = A - B	
	Distance (A - B)	Nominal	In 3.5 mm (In 0.138 in)
	Distance (A - B)	Nominal	11 3.5 11111 (11 0. 136 11)
Total toe-in	* * * * * * * * * * * * * * * * * * * *	Minimum	Out 0° 03′ (Out 0.05°)
	Angle (LH and RH) ^{*2} Degree minute (Decimal degree)	Nominal	ln 0° 20′ (ln 0.33°)
		Maximum	ln 0° 43′ (ln 0.71°)

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

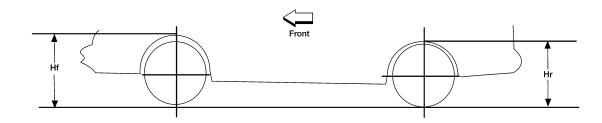
*2: Since an adjustment mechanism is not included, the value of the left and right wheels (both wheels) must be used as the standard value.

Wheelarch Height (Unladen*)

UNITED STATES

Unit: mm (in)

INFOID:000000010409357

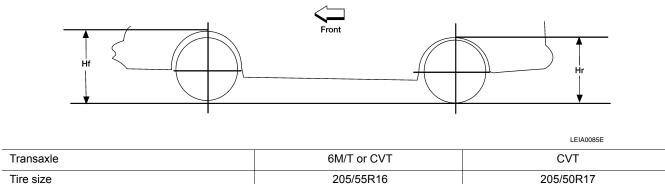


			LEIA0085E
Transaxle	6M/T or CVT	C\	/Т
Tire size	205/55R16 (Except FE)	205/55R16 (FE)	205/50R17
Front (Hf)	703 (27.68)	706 (27.80)	708 (27.87)
Rear (Hr)	703 (27.68)	706 (27.80)	707 (27.83)

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

CANADA

Unit: mm (in)



704 (27.72)

	2014
704 (27.72)	709 (27.91)

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

Brake Specifications

Front (Hf) Rear (Hr)

INFOID:000000010409356

708 (27.87)

		Unit: mm
	Cylinder bore diameter	57.2 (2.252)
Front brake	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)
	Cylinder bore diameter	19.05 (0.750)
Rear brake - drum	Lining length \times width \times 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)
	Cylinder bore diameter	34.93 (1.375)
Rear brake - disc	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:000000010409355

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 (with 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:000000010409353

Unit: mm (in)

	Item Limit	
Brake pad	Wear thickness	2.0 (0.079)
	Wear thickness	22.0 (0.866)
Disc rotor	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:000000010409352

Unit: mm (in)

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

2014

Rear Disc Brake

INFOID:000000010409351

Unit: mm (in)

	Item	Limit
Brake pad	Wear thickness	1.0 (0.039)
	Wear thickness	8.0 (0.315)
Disc rotor	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:000000010409349

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 <i>l</i>	4-1/4 qt	3-1/2 qt
	Without oil filter change		3.8 <i>l</i>	4 qt	3-3/8 qt
Dry engine (engine overhaul)		4.8 l	5-1/8 qt	4-1/4 qt	
		CVT model	6.6 L	7 qt	5-7/8 qt
		M/T model			
Reservoir tank engine coolant capacity (at MAX level)		0.6 <i>l</i>	5/8 qt	1/2 qt	
CVT fluid		6.9 <i>l</i>	7-1/4 qt	6-1/8 qt	
Manual transaxle gear oil		2.0 <i>l</i>	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		$0.45\pm0.05~\text{kg}$	$0.992\pm0.110\text{ lb}$	$0.992\pm0.110~\text{lb}$	
Air conditioner system oil		90 m <i>l</i>	3.0 fl oz	3.2 fl oz	