Edition: December 2015	QUICK REFERENCE INDEX		
Revision: December 2015	A GENERAL INFORMATION	GI General Information	
Pub. No. SM16EM0B17U0	B ENGINE	EM Engine Mechanical	
Fub. No. SWITCEWIDB1700		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	
CENITOA	LINE	TM Transaxle & Transmission	
SENTRA		DLN Driveline	
MODEL B17 SERIES		FAX Front Axle	
NODEL DI 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	
	G STEERING	STC Steering Control System	C
	H RESTRAINTS	SB Seat Belt	
		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	
	K BODY EXTERIOR,	DLK Door & Lock	
	DOORS, ROOF & VEHICLE 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	
	CONTROL	BCS Body Control System	
All rights reserved. No part		LAN LAN System	
of this Service Manual may		PCS Power Control System	
be reproduced or stored in a		CHG Charging System	
retrieval system, or transmit-		PG Power Supply, Ground & Circuit Elements	
ted in any form, or by any	N DRIVER INFORMATION &	MWI Meter, Warning Lamp & Indicator	
means, electronic, mechani-	MULTIMEDIA	WCS Warning Chime System	
		SN Sonar System	
cal, photo-copying, record-		AV Audio, Visual & Navigation System	
ing or otherwise, without the		CCS Cruise Control System	
prior written permission of	DRIVER ASSISTANCE	DMS Drive Mode System	
Nissan Mexicana, S.A. DE		DAS Driver Assistance System	
A V	P MAINTENANCE	MA Maintenance	
C.V.	Q INDEX	IDX Index	

FOREWORD

This manual contains maintenance and repair procedures for the 2016 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.



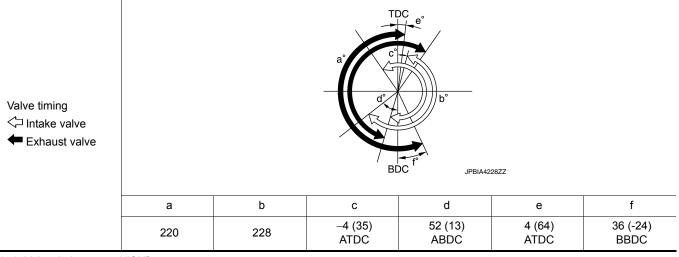
Nissan Mexicana S.A. de C.V. Av. Insurgentes Sur No. 1958 Col. Florida C.P. 01030 México D.F.

NISSAN PLEA	ASE HELP MAKE THIS SERVICE	E MANUAL BETTER!
Your comments a	re important to NISSAN and will help us	to improve our Service Manuals.
Use this form to re	eport any issues or comments you may	have regarding our Service Manuals.
Please print this for	orm and type or write your comments b	elow. Mail or fax to:
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SERVICE MANUAL	.: Model: Year:	
	(Refer to Quick Reference Index):	
	y Service Manual issues or problems in deta	
Page number(s)	Note: Please include a c	copy of each page, marked with your comments.
Are the trouble dia	agnosis procedures logical and easy to u	ise? (circle your answer) YES NO
If no, what page nun	nber(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 s		lanuals to better support you in servicing or
DATE:	YOUR NAME:	POSITION:
DEALER:	DEALER NO.:	ADDRESS:
CITY:	STATE/PROV./COUNTRY:	ZIP/POSTAL CODE:

Engine Tune-up Data

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
<u></u>	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: d



(): Valve timing control "ON"

Drive Belt

INFOID:000000013526148

Tension of drive belt

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

Spark Plug

INFOID:000000013526147

Unit: mm (in)

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

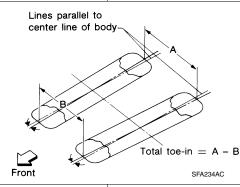
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*: Always check with the Parts Department for the latest parts information.

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°)
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°)



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

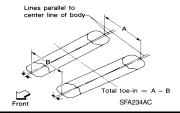
*1: Fuel, engine coolant, and lubricants are full. Spare tire, jack, hand tools, and mats are in designated positions.

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

Rear Wheel Alignment (Unladen*1)

INFOID:000000013526145

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



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

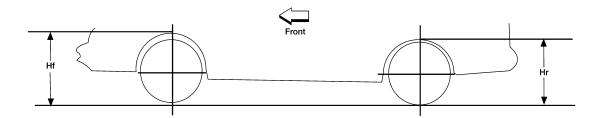
*2: Since an adjustment mechanism is not included, the value of the left and right wheels (both wheels) must be used as the standard value.

Wheelarch Height (Unladen*)

INFOID:000000013526144

UNITED STATES

Unit: mm (in)



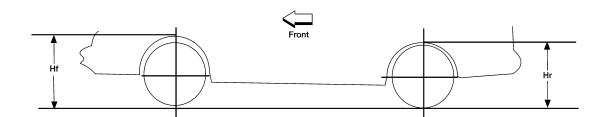
LEIA0085E	

Transaxle	6M/T or CVT	C	VT
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.

Brake Specifications

INFOID:000000013526143

2016

Unit: mm (in)

	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:000000013526142

	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
Brake pedal full stroke 128.5 (5.06)	
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)

Front Disc Brake

INFOID:000000013526141

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)	

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

Rear Drum Brake

INFOID:000000013526140

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:000000013526139

Unit: mm (in)

	Item	Limit	
Brake pad	Wear thickness	1.0 (0.039)	

Item		Limit	
	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)	

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

Fluids and Lubricants

INFOID:000000013526138

NOTE:

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

Fluid types		Capacity (Approximate)			
		Metric	US measure	Imp measure	
Fuel		50.0 <i>l</i>	13-1/4 gal	11 gal	
Engine oil Drain and refill	With oil filter ch	ange	4.0 <i>l</i>	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
Engine coolant (with reservoir tank at MAX level)		CVT model	6.6 l	7 qt	5-7/8 qt
		M/T model			
		Reservoir tank (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 gre	ase		_	—	_
Windshield wash	er fluid		4.5 <i>l</i>	4-3/4 qt	4 qt
Air conditioner sy	stem 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 ℓ	3.0 fl oz	3.2 fl oz	