Revision: September 2009 Publication No. SM0E-11.32U0  A GENERAL INFORMATION B ENGINE  B ENGINE  A GENERAL INFORMATION C Engine Geolule, System Engine Mechanical Engine Mechanical Engine Mechanical Engine Mechanical Engine Geolule, System C Engine Coolule, System Engine Geolule, System Engine Mechanical Engine Mechanical Engine Mechanical C Engine Coolule, System Engine Geolule, System Engine Geolule, System Engine Mechanical Engine Mechani		011101	/ DEFEDENCE INDEV		
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LU Engine Lutrication System					
C. C. Engine Cooling System E. E. Engine Control System F. Fuel System ACC Accelerator Control System ACC Accelerator Control System HBC Hybrid Control System HBC Hybrid Control System HBB Hybrid Battery System HBB Hybrid Brake System LINE  D. TRANSMISSION & DRIVE- LINE  E. SUSPENSION E. SUSPENSION F. BRAKES System F. BROW WITH ROAD WHOLE SYSTEM F. BROW WITH WITH ROAD WHOLE SYSTEM F. BROW WITH WITH ROAD WHOLE SYSTEM F. BROW WITH WITH ROAD SYSTEM F. BROW WITH WITH WITH WITH WITH WITH WITH WIT	Publication No. SM0E-1L32U0	B EN	GINE		
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RAX Rear Axle  E SUSPENSION  E				DLN	•
RAX Rear Axle  E SUSPENSION  E				FAX	Front Axle
NISSAN ALTIMA  F BRAKES  F BRAKES  F BRAKES  F BRAKES  BR Brake System  PB Parking Brake System  INT Interior System  INT Interior  DLK Door & Lock  DOORS, ROOF & VEHICLE  SEC Security Control System  PB Power Window Control System  PW Power Window Control System  INL Interior Lighting System  PD Power Outlet System  PD Power Outlet System  PC Power Control System  PC Power Control System  PC Power Control System  PG Power Control System  PG Power Control System  PG Power Supply, Ground & Circuit Elements  N DRIVER INFORMATION & MWI Meter, Warning Lamp & Indicator  WOW Swarning Chime System  PG Power Supply, Ground & Circuit Elements  N DRIVER INFORMATION & Sonar System  PG Power Supply, Ground & Circuit Elements  N Sonar System  PG Power Control System  PG Power Supply, Ground & Circuit Elements  N DRIVER INFORMATION & Sonar System  PG Power Supply, Ground & Circuit Elements  N Sonar System  PG Power Supply, Ground & Circuit Elements  N A Addio, Visual Revigation System				RAX	
RSU Rear Suspension  SCS Suspension Control System  WT Road Wheels & Tires  PB Parking Brake System  PB Parking Brake System  BRC Brake Control System  BRC Brake Control System  BRC Brake Control System  ST Steering Control System  SR Seat Belt  SR Seat Belt Control System  F BRDY INTERIOR, DOORS, ROOF & VEHICLE SECURITY  BODY EXTERIOR, DOORS, ROOF & VEHICLE SECURITY  AND Automatic Drive Positioner  BR BOY EXTERIOR, DOORS, ROOF & VEHICLE SECURITY  BR BRAKE S BR BRAKE System  BRC Brake System  SR SRS Airbag Control System  WILL Ventilation System  HA Heater & Air Conditioning System  HAC Heater & Air Conditioning Control System  HAC Heater & Air Conditioning Control System  HAC Heater & Air Conditioning Control System  BR SSR SRS Airbag Control System  WA Undertice Description Control System  BR BRAKE S BR BRAKE System  WA Undertice Control System  AND Automatic Drive Positioner  DLK Door & Look  Door &		E SU	SPENSION		
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ALTIMA  F BRAKES  F BRAKES  B Brake System  BR Brake System  ST Steering System  ST Steering System  SR Seat Belt Control System  SR SR SAirbag Control System  VII Ventilation System  HA Heater & Air Conditioning System  HAC Heater & Air Conditioning Control System  Intrinefor  IP Instrument Panel  SE Seat  ADP Automatic Drive Positioner  DLK Door & Lock  DOORS, ROOF & VEHICLE  SECURITY  BR Body Repair Manual  L DRIVER CONTROLS  MIR Mirrors  EXT Exterior Lighting System  WW Wiper & Washer  DEF Defogger  HNN Horn  All rights reserved. No part of this Service Manual may be reproduced or stored in a retrieval system, or transmitted in any form, or by any means, electronic, mechanical, photo-copying, recording or otherwise, without the profire without the profire with permission of MULTIMEDIA  N DRIVER INFORMATION & MWI Meter, Warning Lamp & Indicator MULTIMEDIA  N DRIVER INFORMATION & MWI Meter, Warning Lamp & Indicator MULTIMEDIA  N DRIVER INFORMATION & Sonar System  SN Sonar System  N DRIVER CONTROL  CCS Cruise Control System					
MODEL L32 SERIES  G STEERING  G STEERING  H RESTRAINTS  SB Seat Belt Sering Control System  SR SRS Airbag Control System  I VENTILATION, HEATER & AIR CONDITIONER  AIR CONDITIONER  AIR CONDITIONER  INT Interior  BODY INTERIOR  INT Interior  INT Interior  DOGRS, ROOF & VEHICLE SECURITY  K BODY EXTERIOR, DOGRS, ROOF & VEHICLE SECURITY  K BODY EXTERIOR, DOGRS, ROOF & VEHICLE SECURITY  BODY EXTERIOR, DOGRS, ROOF & VEHICLE SECURITY  ADP Automatic Drive Positioner  DLX Door & Lock  SEC Security Control System  GW Glass & Window System  PWC Power Window Control System  RF ROOf  EXT Exterior  BRIM Body Repair Manual  MIR Mirrors  EXT Exterior Lighting System  WW Wiper & Washer  DEF Defoger  HRN Horn  AII rights reserved. No part of this Service Manual may be reproduced or stored in a retrieval system, or transmitted in any form, or by any means, electronic, mechanical, photo-copying, recording or otherwise, without the prior written permission of Nissan North America, Inc.  O CRUISE CONTROL  CCS Cruise Control System  AV Audio, Visual & Navigation System  O CRUISE CONTROL  CCS Cruise Control System  AV Audio, Visual & Navigation System  AV Audio, Visual & Navigation System	NISSANI				
MODEL L32 SERIES  G STEERING  G STEERING  FRESTRAINTS  BRC Brake Control System  ST Steering System  STC Steering Control System  HA Heater & Air Conditioning Control System  INT Interior  IP Instrument Panel  SE Seat  ADP Automatic Drive Positioner  ADP Automatic Drive Positioner  DLK Door & Lock  DOORS, ROOF & VEHICLE  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  WW Wiper & Washer  Def Defogger  HRN Horn  AND PRIVER INFORMATION & MULTIMEDIA  N DRIVER INFORMATION & MULTIMEDIA		E RD	VKEG		
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H RESTRAINTS  SB Seat Belt Sect App SRS Airbag  SRC SRS Airbag SRC SRS Airbag SRC SRS Airbag SRC SRS Airbag SRC SRS Airbag SRC SRS Airbag SRC SRS Airbag SRC SRS Airbag SRC SRS Airbag SRC SRS Airbag Control System VTL Ventilation System HAC Heater & Air Conditioning System HAC Heater & Air Conditioning System HAC Heater & Air Conditioning Control System Interior  IP Instrument Panel SE Seat ADP Automatic Drive Positioner  K BODY EXTERIOR, DOORS, ROOF & VEHICLE SECURITY  K BODY EXTERIOR, DOORS, ROOF & VEHICLE SECURITY  BOORS, ROOF & VEHICLE SECURITY  K BODY EXTERIOR, DOORS, ROOF & VEHICLE SECURITY  BOORS, ROOF & VEHICLE SECURITY  BRM Body Repair Manual  L DRIVER CONTROLS  MIR Mirrors  EXL Exterior Lighting System  WW Wiper & Washer  DEF Defogger  HIRN Horn  AII rights reserved. No part of this Service Manual may be reproduced or stored in a retrieval system, or transmitted in any form, or by any means, electronic, mechanical, photo-copying, recording or otherwise, without the prior written permission of Nissan North America, Inc.  D CRUISE CONTROL  CCS Cruise Control System  1 VENTILATION, HEATER & SRC SRS Airbag Control System  HAC Heater & Air Conditioning System  HAC Heater & Air Conditioning System  DLL Door & Lock  SEC Security Control System  EXT Exterior  EXT Exterior  EXT Exterior Lighting System  WW Piper & Washer  DEF Defogger  HIRN Horn  HAN LAN System  PCS Body Control System  CHG Charging System  PG Power Supply, Ground & Circuit Elements  N DRIVER INFORMATION & WCS Warning Chime System  N DRIVER INFORMATION & WCS Warning Chime System  AV Audio, Visual & Navigation System	MODEL L32 SERIES	G 511	EERING		
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 System HAC Heater & Air Conditioning System HAC Heater & Air Conditioning Control System Interior IP Instrument Panel SE Seat ADP Automatic Drive Positioner  K BODY EXTERIOR, DOORS, ROOF & VEHICLE SECURITY  K BODY EXTERIOR, DOORS, ROOF & VEHICLE SECURITY  BY Instrument Panel SE Seat ADP Automatic Drive Positioner  DUK Door & Lock SEC Security Control System SEC Security Control System FWC Power Window Control System FWC Power Window Control System  BRM Body Repair Manual  L DRIVER CONTROLS  MIR Mirrors EXL Exterior Lighting System WW Wiper & Washer DEF Defoger HRN Horn WW Wiper & Washer DEF Defoger HRN Horn  AW ELECTRICAL & POWER CONTROL  BCS Body Control System  CHG Charging System  WCHG Charging System  MILLIAN System  PG Power Control System  CHG Charging System  MILLIAN System  PG Power Supply, Ground & Circuit Elements  MULTIMEDIA  MICRONITIONER  AUCHOLIAN System  MICRONITIONER  DEF Defoger HRN Horn  PCONTROL  BCS Body Control System  CHG Charging System  MILLIAN System  PG Power Supply, Ground & Circuit Elements  MULTIMEDIA  MICRONITIONER  AUCHOLIAN System  MICRONITIONER  DEF Defoger HRN Horn  PCO Power Supply, Ground & Circuit Elements  MULTIMEDIA  MICRONITIONER  DEF Defoger HRN HORN  AUCHOLIAN System  MICRONITIONER  MICRONITIONER  DEF Defoger HRN HORN  DEF Defoger HRN HORN  MICRONITIONER  DEF Defoger HRN HORN  MICRONITIONER  MICRONITIONER  MICRONITIONER  DEF Defoger HRN HORN  MICRONITIONER  MICRONITIONER  DEF Defoger HRN HORN  MICRONITIONER  DEF Defoger HRN HORN  MICRONITIONER  DEF Defoger HRN HORN  MICRONITIONER  DE		55	OTD A INITO		
I VENTILATION, HEATER & SRC SRS Airbag Control System		n RESTRAINTS			
I VENTILATION, HEATER & AIR CONDITIONER  I VENTILATION, HEATER & AIR CONDITIONER  III Heater & Air Conditioning System  HAC Heater & Air Conditioning System  HAC Heater & Air Conditioning Control System  III Interior  IP Instrument Panel  SE Seat  ADP Automatic Drive Positioner  DLK Door & Lock  SEC SECURITY  OOORS, ROOF & VEHICLE  SECURITY  OORS, ROOF & VEHICLE  SECURITY  OOORS, ROOF & VEHICLE  SEC Security Control System  PWC Power Window Control System  PWC Power Window Control System  RF Roof  EXT Exterior  BRM Body Repair Manual  MIR Mirrors  EXL Exterior Lighting System  WW Wiper & Washer  DEF Defogger  HRN Horn  AII rights reserved. No part of this Service Manual may be reproduced or stored in a retrieval system, or transmitted in any form, or by any means, electronic, mechanical, photo-copying, recording or otherwise, without the prior written permission of Nissan North America, Inc.  N DRIVER INFORMATION & MWI Meter, Warning Lamp & Indicator  WCS Warning Chime System  O CRUISE CONTROL  O CRUISE CONTROL  OC CRUISE CO					
AIR CONDITIONER  AIR CITETION AIR CONDITIONER  AIR CONDIT					
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IP Instrument Panel SE Seat ADP Automatic Drive Positioner DLK Door & Lock DOORS, ROOF & VEHICLE SECURITY  K BODY EXTERIOR, DOORS, ROOF & VEHICLE SECURITY  BOORS, ROOF & VEHICLE SEC Security Control System  GW Glass & Window System PWC Power Window Control System RF Roof EXT Exterior BRM Body Repair Manual Mirrors EXL Exterior Lighting System INL Interior Lighting System WW Wiper & Washer DEF Defogger HRN Horn All rights reserved. No part of this Service Manual may be reproduced or stored in a retrieval system, or transmitted in any form, or by any means, electronic, mechanical, photo-copying, recording or otherwise, without the prior written permission of Nissan North America, Inc.  IN DRIVER INFORMATION & MWI Meter, Warning Lamp & Indicator WCS Warning Chime System  N DRIVER INFORMATION & MWI Meter, Warning Lamp & Indicator WCS Warning Chime System  AV Audio, Visual & Navigation System  O CRUISE CONTROL CCS Cruise Control System					
K BODY EXTERIOR, DOORS, ROOF & VEHICLE SECURITY    DOORS, ROOF & VEHICLE SECURITY   DUCK SEC Security Control System		Ј ВО	DY INTERIOR		
ADP Automatic Drive Positioner  K BODY EXTERIOR, DOORS, ROOF & VEHICLE SECURITY  EXECURITY  BOORS, ROOF & VEHICLE SECURITY  BOOR & CONTROL SYSTEM  BOOR GIAS & Window System  WIR Mirrors  EXL Exterior Lighting System  INIL Interior Lighting System  WW Wiper & Washer  DEF Defogger  HRN Horn  AN LAN System  POS Power Outlet  CHG Charging System  POS Power Control System  CHG Charging System  PG Power Supply, Ground & Circuit Elements  MINIC CHG Charging System  PG Power Supply, Ground & Circuit Elements  MINIC CHG Charging System  PG Power Supply, Ground & Circuit Elements  MINIC CHG Charging System  PG Power Supply, Ground & Circuit Elements  MINIC CHG Charging System  PG Power Supply, Ground & Circuit Elements  MINIC CHG Charging System  CHG Charging System  PG Power Supply, Ground & Circuit Elements  MINIC CHG Charging System  CHG Charging System  PG Power Supply, Ground & Circuit Elements  MINIC CHG Charging System  PG Power Supply, Ground & Circuit Elements  MINIC CHG Charging System  PG Power Supply, Ground & Circuit Elements  MINIC CHG Charging System  AV Audio, Visual & Navigation System  O CRUISE CONTROL CCS Cruise Control System					
K BODY EXTERIOR, DOORS, ROOF & VEHICLE SECURITY  BECURITY  BY  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  All rights reserved. No part of this Service Manual may be reproduced or stored in a retrieval system, or transmitted in any form, or by any means, electronic, mechanical, photo-copying, recording or otherwise, without the prior written permission of Nissan North America, Inc.  K BODY EXTERIOR, DOOR & VEHICLE SEC Security Control System  BK Glass & Window System  PWC Power Window Control System  MIR Mirrors  EXL Exterior Lighting System  INL Interior Lighting System  PWO Power Outlet  BCS Body Control System  CHG Charging System  PG Power Supply, Ground & Circuit Elements  MWI Meter, Warning Lamp & Indicator  WCS Warning Chime System  AV Audio, Visual & Navigation System  O CRUISE CONTROL  CCS Cruise Control System					
DOORS, ROOF & VEHICLE SECURITY  BECURITY  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 WW Wiper & Washer DEF Defogger HRN Horn  All rights reserved. No part of this Service Manual may be reproduced or stored in a retrieval system, or transmitted in any form, or by any means, electronic, mechanical, photo-copying, recording or otherwise, without the prior written permission of Nissan North America, Inc.  DOORS, ROOF & VEHICLE SEC Security Control System  RF Roof EXT Exterior EXT Exterior BRM Body Repair Manual MIR Mirrors EXL Exterior Lighting System WW 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 WWI Meter, Warning Lamp & Indicator WCS Warning Chime System AV Audio, Visual & Navigation System AV Audio, Visual & Navigation System CCS Cruise Control System					
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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  All rights reserved. No part of this Service Manual may be reproduced or stored in a retrieval system, or transmitted in any form, or by any means, electronic, mechanical, photo-copying, recording or otherwise, without the prior written permission of Nissan North America, Inc.  M ELECTRICAL & POWER CONTROL  M ELECTRICAL & POWER PWO Power Outlet  ECONTROL  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  MULTIMEDIA  N DRIVER INFORMATION & WCS Warning Lamp & Indicator  WCS Warning Chime System  SN Sonar System  AV Audio, Visual & Navigation System  O CRUISE CONTROL  CCS Cruise Control System				PWC	Power Window Control System
BRM Body Repair Manual  L DRIVER CONTROLS    MIR Mirrors				RF	Roof
L DRIVER CONTROLS  MIR Mirrors  EXL Exterior Lighting System  INL Interior Lighting System  WW Wiper & Washer  DEF Defogger  HRN Horn  All rights reserved. No part of this Service Manual may be reproduced or stored in a retrieval system, or transmitted in any form, or by any means, electronic, mechanical, photo-copying, recording or otherwise, without the prior written permission of Nissan North America, Inc.  L DRIVER CONTROLS  MIR Mirrors  EXL Exterior Lighting System  WW Wiper & Washer  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  O CRUISE CONTROL  CCS Cruise Control System				EXT	
EXL Exterior Lighting System  INL Interior Lighting System  WW Wiper & Washer  DEF Defogger  HRN Horn  All rights reserved. No part of this Service Manual may be reproduced or stored in a retrieval system, or transmitted in any form, or by any means, electronic, mechanical, photo-copying, recording or otherwise, without the prior written permission of Nissan North America, Inc.    EXL Exterior Lighting System   WW 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     AV Audio, Visual & Navigation System   AV Audio, Visual & Navigation System   AV Audio, Visual & Navigation System				BRM	Body Repair Manual
INL Interior Lighting System  WW Wiper & Washer  DEF Defogger  HRN Horn  All rights reserved. No part of this Service Manual may be reproduced or stored in a retrieval system, or transmitted in any form, or by any means, electronic, mechanical, photo-copying, recording or otherwise, without the prior written permission of Nissan North America, Inc.  M ELECTRICAL & POWER CONTROL  M ELECTRICAL & POWER 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  AV Audio, Visual & Navigation System  O CRUISE CONTROL  CCS Cruise Control System		L DR	IVER CONTROLS	MIR	
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# **FOREWORD**

This manual contains maintenance and repair procedure for the 2010 NISSAN ALTIMA.

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.





#### PLEASE HELP MAKE THIS SERVICE MANUAL BETTER!

Your comments are important to NISSAN and will help us to improve our Service Manuals. 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:

Nissan North America, Inc. Technical Service Information 39001 Sunrise Drive, P.O. Box 9200 Farmington Hills, MI USA 48331 FAX: (248) 488-3910

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) 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: \_\_\_ \_\_\_\_\_ STATE/PROV./COUNTRY: \_\_\_\_\_ ZIP/POSTAL CODE: \_\_\_\_

# SQUICK REFERENCE CHART: ALTIMA

Engine Tune-up Data: QR25DE

#### INFOID:0000000005825228

### **GENERAL SPECIFICATIONS**

Cylinder arrangement			In-line 4			
Displacement cm <sup>3</sup> (in <sup>3</sup> )			2,488 (151.82)			
Bore and stroke mr	n. (in)			89.0 x 100	(3.50 x 3.94)	
Valve arrangement				DC	OHC	
Firing order				1-3-4-2		
Number of piston ring	ne .	Compression			2	
Number of pistori fing	<b>,</b> 5	Oil			1	
Compression ratio				9.	5:1	
		Standard		1,250 (12	2.8, 181.3)	
Compression pressu		Minimum		1,060 (10	0.8, 153.7)	
kPa (kg/cm <sup>2</sup> , psi) / 25	50 rpm	Differential limit betw	een cylinders	100 (1	1.0, 14)	
Valve timing		TDC LS A LINE OF THE PRICE OF T				
	I	T			Unit: degree	
a	b	С	d	е	f	
220°	232°	-12°	64°	10°	30°	

### **DRIVE BELTS**

Tension of drive belts	Auto adjustment by auto tensioner

#### SPARK PLUG

Unit: mm. (in)

Make	NGK	
Type*	Standard	DILKAR6A-11
Gap (nominal)		1.1 (0.043)

<sup>\*:</sup> Always check with the Parts Department for the latest parts information

Engine Tune-up Data: VQ35DE

INFOID:0000000005825225

**GENERAL SPECIFICATIONS** 

Cylinder arrangemen	t			V	<b>'-6</b>
Displacement cm <sup>3</sup> (cu in)			3,498 (	(213.45)	
Bore and stroke mn	n (in)			95.5 x 81.4 (3.760 x 3.205)	
Valve arrangement				DOHC	
Firing order				1-2-3	-4-5-6
Number of piston ring	ne.	Compression			2
Number of pistori fing	<i>j</i> s	Oil			1
Number of main bear	rings				4
Compression ratio				10	.3:1
Compression process		Standard		1,275 (1	3.0, 185)
Compression pressur kPa (kg/cm <sup>2</sup> , psi)/300		Minimum		981 (10	0.0, 142)
a (ng/oiii , poi//ooc	, ip	Differential limit betw	een cylinders	98 (1	.0, 14)
Cylinder number		FRONT SEM713A			
Valve timing (Valve timing control	- "OFF")	BDC PEICO187E			
			T		Unit: degree
a	b	С	d	е	f
240	240	-10	70	10	50

Drive Belt

### **DRIVE BELT**

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

# Spark Plug

INFOID:0000000005825227

SPARK PLUG

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1

Make	DENSO

Standard type*	FXE22HR11	
Gap	Standard	1.1 (0.043)

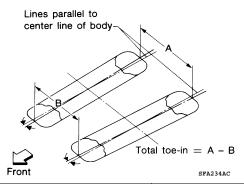
<sup>\*:</sup> Always check with the Parts Department for the latest parts information

# Front Wheel Alignment (Unladen\*)

INFOID:0000000005825224

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Market			USA/Canada		Mexico		
Engine type			QR25DE and VQ35DE		QR25DE and VQ35DE		
Tire size			P215/ 60R16	P215/ 55R17	P215/ 60R16	P215/ 55R17	
Camber		Minimum	-1°15′	(-1.25°)	-1°09′ (-1.15°)		
Degree minute (Decimal degree)	LH	Nominal	-0°30′	(-0.50°)	-0°24′	(-0.40°)	
		Maximum	0°15′	(0.25°)	0°21′	(0.35°)	
		Minimum	-1°30′	(-1.50°)	-1°24′ (-1.40°)		
	RH	Nominal	-0°45′ (-0.75°)		-0°39′ (-0.65°)		
		Maximum	0°00′ (0.00°)		-0°06′ (-0.10°)		
	Left and right difference		-0°15′± 0° 33′ (-0.25°± 0.55°)				
Caster		Minimum	4°09′ (4.15°)		3°54′	(3.90°)	
Degree minute (Decimal degree)		Nominal	4°54′	4°54′ (4.90°)		4°39′ (4.65°)	
		Maximum	5°39′	5°39′ (5.65°)		5°24′ (5.40°)	
		Left and right dif- ference	± 0° 33′ (± 0.55°)				
Kingpin offset Degree minute (Decimal degree)		Minimum	12°00′	(12.00°)	11°45′	(11.75°)	
		Nominal	12°45′	(12.75°)	12°30′	(12.50°)	
		Maximum	13°30′ (13.50°)		13°15′ (13.25°)		



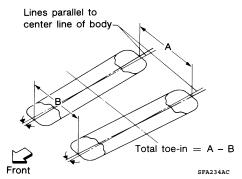
	Distance (A - B)	Minimum	0 mm
		Nominal	1 mm
Total toe-in		Maximum	2 mm
Total toe-III	Angle (left or right, each side) Degree minute (Degree)	Minimum	0°00′ (0.00°)
		Nominal	0°02′ (0.03°)
		Maximum	0°04′ (0.07°)

<sup>★:</sup> Fuel, radiator coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions.

### COUPE

Market	USA/Canada			Mexico
Engine type	QR25DE and VQ35DE			VQ35DE
Tire size	P215/60R16	P215/55R17	P235/45R18	P235/45R18

Camber		Minimum	-1°15′ (-1.25°)	-1°09′ (-1.15°)
Degree minute (Decimal degree)	LH	Nominal	-0°30′ (-0.50°)	-0°24′ (-0.40°)
9.00)		Maximum	0°15′ (0.25°)	0°21′ (0.35°)
		Minimum	-1°30′ (-1.50°)	-1°24′ (-1.40°)
	RH	Nominal	-0°45′ (-0.75°)	-0°39′ (-0.65°)
		Maximum	0°00′ (0.00°)	-0°06′ (-0.10°)
	Left and righ	nt difference	-0°15′± 0° 33′ (-0.25°± 0.55°	)
Caster		Minimum	3°51′ (3.85°)	3°57′ (3.95°)
Degree minute (Decimal degre	e)	Nominal	4°36′ (4.60°)	4°42′ (4.70°)
		Maximum	5°21′ (5.35°)	5°27′ (5.45°)
		Left and right difference	± 0° 33′ (± 0.55°)	1
Kingpin offset Degree minute (Decimal degree)		Minimum	12°00′ (12.00°)	11°50′ (11.83°)
		Nominal	12°45′ (12.75°)	12°35′ (12.58°)
		Maximum	13°30′ (13.50°)	13°20′ (13.33°)



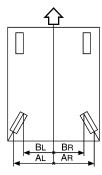
Distance (A - B)  Total toe-in	Distance (A - B)	Minimum	0 mm
		Nominal	1 mm
	Maximum	2 mm	
Total toe-III	Angle (left or right, each side) Degree minute (Degree)	Minimum	0°00′ (0.00°)
		Nominal	0°02′ (0.03°)
		Maximum	0°04′ (0.07°)

<sup>★:</sup> Fuel, radiator coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions.

# Rear Wheel Alignment (Unladen\*)

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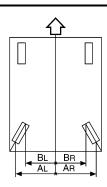


ALEIA0059ZZ

Market			USA and Canada	Mexico
		Minimum	-1° 07′ (-1.12°)	-0° 17' 30" (-0.298°)
Camber Degree minut	te (Decimal degree)	Nominal	-0° 37′ (-0.612°)	0° 12' 0" (0.202°)
Dogroo mina	to (Decimal degree)	Maximum	-0° 07′ (-0.12°)	0° 42' 0" (0.702°)
Distance difference between RH		Minimum	-2 (	(-0.08)
and LH side (AR - BR) - (AL - BL)	Nominal	0 (0)		
	Maximum	2 (	0.08)	
Total toe-in	Angle difference between RH and	Minimum	-0° 5'	(-0.08°)
LH side  Degree minute (decimal degree)	Nominal	0° 00' (0.00°)		
	Maximum	0° 5'	(0.08°)	
Angle (left or right)  Degree minute (decimal degree)			0° 6′ (0.110°)	0° 6′ 0" (0.108°)

<sup>\*:</sup> Fuel, radiator coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions.

### Coupe



ALEIA0059ZZ

Market		All
	Minimum	-0° 35′ (-0.584°)
Camber Degree minute (Decimal degree)	Nominal	-0° 5′ (-0.084°)
	Maximum	0° 24' 45" (0.416°)

	Distance difference between RH	Minimum	-2 (-0.08)
and LH side (AR - BR) - (AL - BL) <□: Front mm (in)	Nominal	0 (0)	
	Maximum	2 (0.08)	
Total toe-in	Total toe-in Angle difference between RH and	Minimum	-0° 5' (-0.08°)
	LH side  Degree minute (decimal degree)	Nominal	0° 00' (0.00°)
Dogroo minute (decimal dogroo)	Maximum	0° 5' (0.08°)	
	Angle (left or right) Degree minute (decimal degree)	I	0° 6′ (0.112°)

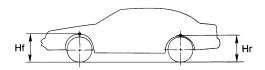
<sup>\*:</sup> Fuel, radiator coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions.

# Wheelarch Height (Unladen\*1)

INFOID:0000000005825223

SEDAN (QR25DE)

Unit: mm (in)



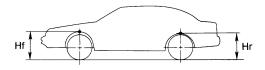
SFA8182

Market	USA	Canada	Mexico
Tire size	P215/60R16	P215/60R16	P215/60R16
Front (Hf)	717 (28.23)	715 (28.15)	727 (28.62)
Rear (Hr)	711 (27.99)	715 (28.15)	731 (28.78)

<sup>\*1:</sup> Fuel, engine coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions.

SEDAN (VQ35DE)

Unit: mm (in)



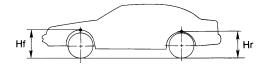
SFA818A

Market	USA		Canada		Mexico
Tire size	P215/60R16	P215/55R17	P215/60R16	P215/55R17	P215/55R17
Front (Hf)	716 (28.19)	715 (28.15)	714 (28.11)	716 (28.19)	725 (28.54)
Rear (Hr)	711 (27.99)	711 (27.99)	715 (28.15)	711 (27.99)	731 (28.78)

<sup>\*1:</sup> Fuel, engine coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions.

COUPE

Unit: mm (in)



#### SFA818A

Market	USA		Car	Mexico	
Engine	QR25DE	VQ35DE	QR25DE	VQ35DE	VQ35DE
Tire size	P215/55R17	P235/45R18	P215/55R17	P235/45R18	P235/45R18
Front (Hf)	_	713 (28.07)	_	711(27.99)	723 (28.46)
Rear (Hr)	_	722 (28.43)	_	726 (28.58)	722 (28.43)

<sup>\*1:</sup> Fuel, engine coolant and engine oil full. Spare tire, jack, hand tools and mats in designated positions.

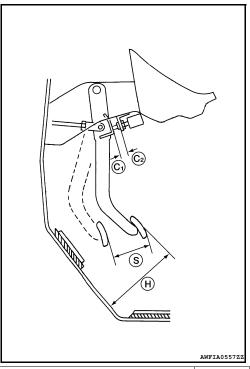
# **Brake Specifications**

INFOID:0000000005825220

Unit: mm (in)

	Brake model	Kiriu
Front broke	Cylinder bore diameter	57.2 (2.25)
Front brake	Pad length × width × thickness	126.5 × 52 × 11 (4.98 × 2.047 × 0.433)
	Rotor outer diameter × thickness	296 × 26 (11.65 × 1.024)
	Brake model	Kiriu
Daar kaala	Cylinder bore diameter	34.93 (1.375)
	Pad length × width × thickness	83 × 33 × 8.5 (3.268 × 1.299 × 0.335)
	Rotor outer diameter × thickness	292 × 9 (11.50 × 0.354)
Master cylinder	Cylinder bore diameter	25.4 (1)
Control valve	Valve model	Electric brake force distribution
Brake booster	Booster model	Bosch
Diaphragm diameter		280 (11)
Recommended b	prake fluid	DOT 3

Brake Pedal



<u> </u>		
Brake pedal height (H)	CVT	190.7 - 202.7 mm (7.51 - 7.98 in)
(from dash lower panel top surface)	M/T	181.3 -193.3 mm (7.14 - 7.61 in)
Brake pedal full stroke (S)	CVT	130 mm (5.12 in)
	M/T	130 mm (5.12 in)
Clearance between stopper bracket and threaded end of the stop land and ASCD cancel switch (C1 and C2)	0.74 - 1.96 mm (0.0291 - 0.0772 in)	

Front Disc Brake

Brake model		Kiriu
Standard thickness (new)		11.0 mm (0.433 in)
Brake pad	Wear limit thickness	2.0 mm (0.079 in)
-	Standard thickness (new)	26.0 mm (1.024 in)
Disc rotor	Wear limit thickness	24.0 mm (0.945 in)
Disc fotor	Thickness variation (measured at 8 positions)	0.015 mm (0.0006 in)
	Maximum runout (with it attached to the vehicle)	0.040 mm (0.0016 in)

Rear Disc Brake

Brake model		Kiriu
Brake pad	Standard thickness (new)	8.5 mm (0.335 in)
	Wear limit thickness	1.0 mm (0.039 in)
Disc rotor	Standard thickness (new)	9.0 mm (0.354 in)
	Wear limit thickness	8.0 mm (0.315 in)
	Thickness variation (measured at 8 positions)	0.015 mm (0.0006 in)
	Maximum runout (with it attached to the vehicle)	0.05 mm (0.0020 in)

# FOR USA AND CANADA

FOR USA AND CANADA: Fluids and Lubricants

INFOID:0000000005825211

INFOID:0000000005825213

Description		Capacity (Approximate)			
			Liter US measure		Imp measure
Fuel		QR25DE	75.6	20 gal	16-5/8 gal
		VQ35DE			
Engine oil Drain and refill	With oil filter change	QR25DE	4.6	4 7/8 qt	4 qt
		VQ35DE	4.8	5 1/8 qt	4 1/4 qt
	Without oil fil- ter change	QR25DE	4.3	4 1/2 qt	3 3/4 qt
		VQ35DE	4.5	4 3/4 qt	4 qt
Dry engine		QR25DE	5.4	5 3/4 qt	4 3/4 qt
(engine overhaul)	1	VQ35DE	5.3	5 5/8 qt	4 5/8 qt
Cooling system		QR25DE	7.7	8 1/8 qt	6 3/4 qt
with reservoir tan	k	VQ35DE	9.0	9 1/2 qt	7 7/8 qt
O) (T. ()		RE0F09B	10.2	10 6/8 qt	9 qt
CVT fluid		RE0F10A	7.3	7 3/4 qt	6 3/8
Manual transaxle fluid (MTF)		1.7	3 5/8 pt	3 pt	
Power steering fluid (PSF)		1.0	1 1/8 qt	7/8 qt	
Brake and clutch fluids		_	_	_	
Brake grease		_	_	_	
Brake pad plate grease		_	_	_	
Multi-purpose grease		_	_	_	
Air conditioning system refrigerant		$0.55 \pm 0.025 \text{ kg}$	$1.21 \pm 0.055 \text{ lb}$	$0.55 \pm 0.025 \text{ kg}$	
Air conditioning system oil		150 m ℓ	5.03 fl oz	5.3 fl oz	
Windshield washer fluid		_	_	_	

### FOR MEXICO

FOR MEXICO: Fluids and Lubricants

QR25DE

Description		Capacity (Approximate)	
		Liter	Imp measure
Engine oil Drain and refill	With oil filter change	4.6	4 qt
	Without oil filter change	4.3	3 3/4 qt
Dry engine (engine overhaul)		5.4	4 3/4 qt
Cooling system with reserve	oir tank	7.7 6 3/4 qt	
CVT fluid	RE0F09B	10.2	9 qt
	RE0F10B	7.3	6 3/8
Power steering fluid (PSF)		1.0	7/8 qt
Brake fluids		_	_
Multi-purpose grease		_	_

### VQ35DE

Description		Capacity (Approximate)	
		Liter	Imp measure
Engine oil	With oil filter change	4.8	4 1/4 qt
Drain and refill	Without oil filter change	4.5	4 qt
Dry engine (engine overhaul)		5.3	4 5/8 qt
Cooling system with reservoir tank		9.0	7 7/8 qt
OVT fluid	RE0F09B	10.2	9 qt
CVT fluid	RE0F10B	7.3	6 3/8
Power steering fluid (PSF)		1.0	7/8 qt
Brake fluids		_	_
Multi-purpose grease		_	_