Edition: May 2014 Revision: May 2014 Pub. No. SM15EA0L33U0

#### QUICK REFERENCE INDEX A GENERAL INFORMATION GI General Information

**B ENGINE** 

EM	Engine Mechanical
LU	Engine Lubrication System
CO	Engine Cooling System
EC	Engine Central System

# NISSAN :

**MODEL L33 SERIES** 

	EC	Engine Control System
	FL	Fuel System
	EX	Exhaust System
	STR	Starting System
	ACC	Accelerator Control System
C HYBRID	HBC	Hybrid Control System
D TRANSMISSION & DRIVE-	CL	Clutch System
LINE	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
F BRAKES	BR	Brake System
	PB	Parking Brake System
	BRC	Brake Control System
G STEERING	ST	Steering System
	STC	Steering Control System
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	НА	Heater & Air Conditioning System
	HAC	Heater & Air Conditioning Control System
J BODY INTERIOR		
J BODY INTERIOR	INT	Interior
J BODY INTERIOR	INT IP	Interior Instrument Panel
J BODY INTERIOR	INT IP SE	Interior Instrument Panel Seat
	INT IP SE ADP	Interior Instrument Panel Seat Automatic Drive Positioner
K BODY EXTERIOR, DOORS, ROOF & VEHICLE	INT IP SE ADP DLK	Interior Instrument Panel Seat Automatic Drive Positioner Door & Lock
K BODY EXTERIOR.	INT IP SE ADP DLK SEC	Interior Instrument Panel Seat Automatic Drive Positioner Door & Lock Security Control System
K BODY EXTERIOR, DOORS, ROOF & VEHICLE	INT IP SE ADP DLK SEC GW	Interior Instrument Panel Seat Automatic Drive Positioner Door & Lock Security Control System Glass & Window System
K BODY EXTERIOR, DOORS, ROOF & VEHICLE	INT IP SE ADP DLK SEC GW PWC	Interior Instrument Panel Seat Automatic Drive Positioner Door & Lock Security Control System Glass & Window System Power Window Control System
K BODY EXTERIOR, DOORS, ROOF & VEHICLE	INT IP SE ADP DLK SEC GW PWC RF	Interior Instrument Panel Seat Automatic Drive Positioner Door & Lock Security Control System Glass & Window System Power Window Control System Roof
K BODY EXTERIOR, DOORS, ROOF & VEHICLE	INT IP SE ADP DLK SEC GW PWC RF EXT	Interior Instrument Panel Seat Automatic Drive Positioner Door & Lock Security Control System Glass & Window System Power Window Control System Roof Exterior
K BODY EXTERIOR, DOORS, ROOF & VEHICLE SECURITY	INT IP SE ADP DLK SEC GW PWC RF EXT BRM	Interior Instrument Panel Seat Automatic Drive Positioner Door & Lock Security Control System Glass & Window System Power Window Control System Roof Exterior Body Repair Manual
K BODY EXTERIOR, DOORS, ROOF & VEHICLE	INT IP SE ADP DLK SEC GW PWC RF EXT BRM MIR	Interior Instrument Panel Seat Automatic Drive Positioner Door & Lock Security Control System Glass & Window System Power Window Control System Roof Exterior Body Repair Manual Mirrors
K BODY EXTERIOR, DOORS, ROOF & VEHICLE SECURITY	INT IP SE ADP DLK SEC GW PWC RF EXT BRM MIR EXL	Interior Instrument Panel Seat Automatic Drive Positioner Door & Lock Security Control System Glass & Window System Power Window Control System Roof Exterior Body Repair Manual Mirrors Exterior Lighting System
K BODY EXTERIOR, DOORS, ROOF & VEHICLE SECURITY	INT IP SE ADP DLK SEC GW PWC RF EXT BRM MIR EXL INL	Interior Instrument Panel Seat Automatic Drive Positioner Door & Lock Security Control System Glass & Window System Power Window Control System Roof Exterior Body Repair Manual Mirrors Exterior Lighting System Interior Lighting System
K BODY EXTERIOR, DOORS, ROOF & VEHICLE SECURITY	INT IP SE ADP DLK SEC GW PWC RF EXT BRM MIR EXL INL WW	Interior Instrument Panel Seat Automatic Drive Positioner Door & Lock Security Control System Glass & Window System Power Window Control System Roof Exterior Body Repair Manual Mirrors Exterior Lighting System Interior Lighting System Wiper & Washer
K BODY EXTERIOR, DOORS, ROOF & VEHICLE SECURITY	INT IP SE ADP DLK SEC GW PWC RF EXT BRM MIR EXL INL WW DEF	Interior Instrument Panel Seat Automatic Drive Positioner Door & Lock Security Control System Glass & Window System Power Window Control System Roof Exterior Body Repair Manual Mirrors Exterior Lighting System Interior Lighting System Wiper & Washer Defogger
K BODY EXTERIOR, DOORS, ROOF & VEHICLE SECURITY  L DRIVER CONTROLS	INT IP SE ADP DLK SEC GW PWC RF EXT BRM MIR EXL INL WW DEF HRN	Interior Instrument Panel Seat Automatic Drive Positioner Door & Lock Security Control System Glass & Window System Power Window Control System Roof Exterior Body Repair Manual Mirrors Exterior Lighting System Interior Lighting System Wiper & Washer Defogger Horn
K BODY EXTERIOR, DOORS, ROOF & VEHICLE SECURITY	INT IP SE ADP DLK SEC GW PWC RF EXT BRM MIR EXL INL WW DEF HRN PWO	Interior Instrument Panel Seat Automatic Drive Positioner Door & Lock Security Control System Glass & Window System Power Window Control System Roof Exterior Body Repair Manual Mirrors Exterior Lighting System Interior Lighting System Wiper & Washer Defogger Horn Power Outlet
K BODY EXTERIOR, DOORS, ROOF & VEHICLE SECURITY  L DRIVER CONTROLS  M ELECTRICAL & POWER	INT IP SE ADP DLK SEC GW PWC RF EXT BRM MIR EXL INL WW DEF HRN PWO BCS	Interior Instrument Panel Seat Automatic Drive Positioner Door & Lock Security Control System Glass & Window System Power Window Control System Roof Exterior Body Repair Manual Mirrors Exterior Lighting System Interior Lighting System Wiper & Washer Defogger Horn Power Outlet Body Control System
K BODY EXTERIOR, DOORS, ROOF & VEHICLE SECURITY  L DRIVER CONTROLS  M ELECTRICAL & POWER	INT IP SE ADP DLK SEC GW PWC RF EXT BRM MIR EXL INL WW DEF HRN PWO BCS LAN	Interior Instrument Panel Seat Automatic Drive Positioner Door & Lock Security Control System Glass & Window System Power Window Control System Roof Exterior Body Repair Manual Mirrors Exterior Lighting System Interior Lighting System Wiper & Washer Defogger Horn Power Outlet Body Control System LAN System
K BODY EXTERIOR, DOORS, ROOF & VEHICLE SECURITY  L DRIVER CONTROLS  M ELECTRICAL & POWER	INT IP SE ADP DLK SEC GW PWC RF EXT BRM MIR EXL INL WW DEF HRN PWO BCS LAN PCS	Interior Instrument Panel Seat Automatic Drive Positioner Door & Lock Security Control System Glass & Window System Power Window Control System Roof Exterior Body Repair Manual Mirrors Exterior Lighting System Interior Lighting System Wiper & Washer Defogger Horn Power Outlet Body Control System LAN System Power Control System
K BODY EXTERIOR, DOORS, ROOF & VEHICLE SECURITY  L DRIVER CONTROLS  M ELECTRICAL & POWER	INT IP SE ADP DLK SEC GW PWC RF EXT BRM MIR EXL INL WW DEF HRN PWO BCS LAN PCS CHG	Interior Instrument Panel Seat Automatic Drive Positioner Door & Lock Security Control System Glass & Window System Power Window Control System Roof Exterior Body Repair Manual Mirrors Exterior Lighting System Interior Lighting System Wiper & Washer Defogger Horn Power Outlet Body Control System LAN System Power Control System Charging System
K BODY EXTERIOR, DOORS, ROOF & VEHICLE SECURITY  L DRIVER CONTROLS  M ELECTRICAL & POWER CONTROL	INT IP SE ADP DLK SEC GW PWC RF EXT BRM MIR EXL INL WW DEF HRN PWO BCS LAN PCS CHG PG	Interior Instrument Panel Seat Automatic Drive Positioner Door & Lock Security Control System Glass & Window System Power Window Control System Roof Exterior Body Repair Manual Mirrors Exterior Lighting System Interior Lighting System Wiper & Washer Defogger Horn Power Outlet Body Control System LAN System Power Control System Charging System Power Supply, Ground & Circuit Elements
K BODY EXTERIOR, DOORS, ROOF & VEHICLE SECURITY  L DRIVER CONTROLS  M ELECTRICAL & POWER CONTROL	INT IP SE ADP DLK SEC GW PWC RF EXT BRM MIR EXL INL WW DEF HRN PWO BCS LAN PCS CHG PG MWI	Interior Instrument Panel Seat Automatic Drive Positioner Door & Lock Security Control System Glass & Window System Power Window Control System Roof Exterior Body Repair Manual Mirrors Exterior Lighting System Interior Lighting System Wiper & Washer Defogger Horn Power Outlet Body Control System LAN System Power Control System Charging System Power Supply, Ground & Circuit Elements Meter, Warning Lamp & Indicator
K BODY EXTERIOR, DOORS, ROOF & VEHICLE SECURITY  L DRIVER CONTROLS  M ELECTRICAL & POWER CONTROL	INT IP SE ADP DLK SEC GW PWC RF EXT BRM MIR EXL INL WW DEF HRN PWO BCS LAN PCS CHG PG MWI WCS	Interior Instrument Panel Seat Automatic Drive Positioner Door & Lock Security Control System Glass & Window System Power Window Control System Roof Exterior Body Repair Manual Mirrors Exterior Lighting System Interior Lighting System Wiper & Washer Defogger Horn Power Outlet Body Control System LAN System Power Control System Charging System Power Supply, Ground & Circuit Elements Meter, Warning Lamp & Indicator Warning Chime System
K BODY EXTERIOR, DOORS, ROOF & VEHICLE SECURITY  L DRIVER CONTROLS  M ELECTRICAL & POWER CONTROL	INT IP SE ADP DLK SEC GW PWC RF EXT BRM MIR EXL INL WW DEF HRN PWO BCS LAN PCS CHG PG MWI	Interior Instrument Panel Seat Automatic Drive Positioner Door & Lock Security Control System Glass & Window System Power Window Control System Roof Exterior Body Repair Manual Mirrors Exterior Lighting System Interior Lighting System Wiper & Washer Defogger Horn Power Outlet Body Control System LAN System Power Control System Charging System Power Supply, Ground & Circuit Elements Meter, Warning Lamp & Indicator

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Audio, Visual & Navigation System O CRUISE CONTROL ccs **Cruise Control System** DAS **Driver Assistance System** P MAINTENANCE Maintenance

# **FOREWORD**

This manual contains maintenance and repair procedure for the 2015 NISSAN ALTIMA Sedan.

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) 488-3880

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) 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: \_\_\_\_

# QUICK REFERENCE CHART: ALTIMA

Engine Tune-up Data: QR25DE

#### INFOID:0000000011378265

#### **GENERAL SPECIFICATIONS**

Cylinder arrangement	In-line 4	
Displacement cm <sup>3</sup> (in <sup>3</sup> )		2,488 (151.82)
Bore and stroke mm (in)	89.0 x 100 (3.50 x 3.94)	
Valve arrangement	DOHC	
Firing order	1-3-4-2	
N. okazata zasa	Compression	2
Number of piston rings	Oil	1
Compression ratio		10.0:1
0	Standard	1410 (1.41, 14.4, 204.5)
Compression pressure kPa (kg/cm <sup>2</sup> , psi) / 250 rpm	Minimum	1220 (1.22, 12.4, 176.9)
κι α (κ <del>g/οπ , ροι// 200 Ι</del> ρπ	Differential limit between cylinders	100 (1.0, 14)

#### **DRIVE BELTS**

Tension of drive belts	Auto adjustment by drive belt auto-tensioner

#### SPARK PLUG

Unit: mm (in)

Make		DENSO		
Type* Standard		FXE20HE11C		
Gap (nominal)		1.1 (0.043)		

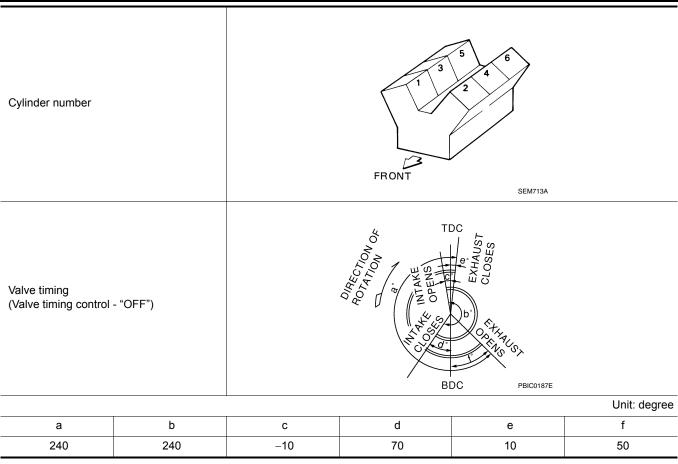
<sup>\*:</sup> Always check with the Parts Department for the latest parts information.

# Engine Tune-up Data: VQ35DE

INFOID:0000000011378262

#### **GENERAL SPECIFICATIONS**

Cylinder arrangement	V-6		
Displacement cm <sup>3</sup> (cu in)		3,498 (213.45)	
Bore and stroke mm (in)		95.5 x 81.4 (3.760 x 3.205)	
Valve arrangement		DOHC	
Firing order		1-2-3-4-5-6	
Nh f. data da	Compression	2	
Number of piston rings	Oil	1	
Number of main bearings	,	4	
Compression ratio		10.3:1	
0	Standard	1,275 (12.75, 13.0, 185)	
Compression pressure kPa (kg/cm <sup>2</sup> , psi)/300 rpm	Minimum	981 (9.81, 10.0, 142)	
Ki a (kg/oiii , poi//ooo ipiii	Differential limit between cylinders	98 (0.98, 1.0, 14)	



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

#### SPARK PLUG

Unit: mm (in)

Make	DENSO		
Standard type*	e* FXE22HR11		
Gap Standard		1.1 (0.043)	

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

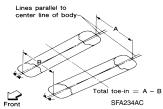
# Front Wheel Alignment (Unladen\*1)

INFOID:0000000011378261

#### **UNITED STATES**

Engine type	QR2	25DE	VQ35DE
Tire size	215/60R16	215/55R17	235/45R18

Camber *2		Minimum	-1° 05′ (-1.08°)			
Degree minute (Decimal degree)	(LH)	Nominal	-0° 20′ (-0.33°)			
(Decimal degree)		Maximum	0° 25′ (0.42°)			
		Minimum	-1° 20′ (-1.33°)			
	(RH)	Nominal	-0° 35′ (-0.58°)			
		Maximum	0° 10′ (0.17°)			
Caster *3 Degree minute		Minimum	4° 10′ (4.17°)	4° 15′ (4.25°)		
		Nominal	4° 55′ (4.92°)	5° 00′ (5.00°)		
(Decimal degree)		Maximum	5° 40′ (5.67°)	5° 45′ (5.75°)		
		Minimum	13° 35′ (13.58°)	13° 40′ (13.67°)		
	(LH)	Nominal	14° 20′ (14.33°)	14° 25′ (14.42°)		
Kingpin inclination Degree minute (Decimal degree)		Maximum	15° 05′ (15.08°)	15° 10′ (15.17°)		
		Minimum	13° 50′ (13.83°)	13° 55′ (13.92°)		
	(RH)	Nominal	14° 35′ (14.58°)	14° 40′ (14.67°)		
		Maximum	15° 20′ (15.33°)	15° 25′ (15.42°)		



Total toe-in	Distance (A - B)	Minimum	Out 1.7 mm (Out 0.07 in)		
		Nominal	In 0.3 mm (In 0.01 in)		
		Maximum	In 2.3 mm (In 0.09 in)		
	Angle (LH and RH) Degree minute (Decimal degree)	Minimum	Out 0° 05′ 38″ (Out 0.094°)		
		Nominal	In 0° 03′ 57″ (In 0.066°)		
		Maximum	In 0° 13′ 33″ (In 0.226°)		

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

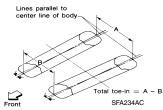
#### **CANADA**

Engine type  Tire size			QR25DE		VQ35DE	
			215/60R16	215/55R17	235/45R18	
Camber *2		Minimum	-1° 05′ (-1.08°)			
Degree minute (Decimal degree)	(LH)	Nominal	-0° 20′ (-0.33°)			
		Maximum	0° 25′ (0.42°)			
	Minimum		-1° 20′ (-1.33°)			
	(RH)	Nominal	-0° 35′ (-0.58°)			
		Maximum	0° 10′ (0.17°)			
Caster *3		Minimum	4° 10′ (4.17°)			
Degree minute		Nominal		4° 55′ (4.92°)		
(Decimal degree)		Maximum		5° 40′	(5.67°)	

<sup>\*2:</sup> The RH camber angle shall be -0° 15′± 0° 33′ (-0.25°± 0.55°) with respect to the LH camber angle.

<sup>\*3:</sup> For the caster angle, the difference between right and left against the ground surface shall be  $\pm~0^{\circ}~30'~(\pm~0.50^{\circ})$  maximum.

		Minimum	13° 35′ (13.58°)	13° 40′ (13.67°)
	(LH)	Nominal	14° 20′ (14.33°)	14° 25′ (14.42°)
Kingpin inclination		Maximum	15° 05′ (15.08°)	15° 10′ (15.17°)
Degree minute (Decimal degree)		Minimum	13° 50′ (13.83°)	13° 55′ (13.92°)
,	(RH)	Nominal	14° 35′ (14.58°)	14° 40′ (14.67°)
		Maximum	15° 20′ (15.33°)	15° 25′ (15.42°)



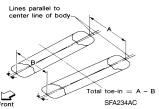
		Minimum	Out 1.7 mm (Out 0.07 in)
	Distance (A - B)	Nominal	In 0.3 mm (In 0.01 in)
Total toe-in		Maximum	In 2.3 mm (In 0.09 in)
	Angle (LH and RH)	Minimum	Out 0° 05′ 38″ (Out 0.094°)
<u> </u>	Degree minute	Nominal	In 0° 03′ 57″ (In 0.066°)
	(Decimal degree)	Maximum	In 0° 13′ 33″ (In 0.226°)

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

# Rear Wheel Alignment (Unladen\*)

INFOID:0000000011378259

Market		United States	Canada
Camber	Minimum	-1° 10′ (-1.17°)	-1° 05′ (-1.08°)
Degree minute	Nominal	-0° 40′ (-0.67°)	-0° 35′ (-0.58°)
(Decimal degree)	Maximum	-0° 10′ (-0.17°)	-0° 05′ (-0.08°)



		Tront	
		Minimum	Out 2.2 mm (Out 0.087 in)
Total toe-in	Distance (A - B)	Nominal	In 0.8 mm (In 0.031 in)
		Maximum	In 3.8 mm (In 0.150 in)
	Angle (LH and RH)	Minimum	Out 0° 08′ 02″ (Out 0.134°)
	Degree minute Nor	Nominal	In 0° 03′ 58″ (In 0.066°)
		Maximum	In 0° 15′ 58″ (In 0.266°)

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

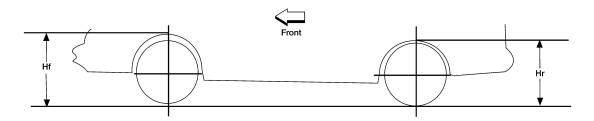
# Wheelarch Height (Unladen\*1)

INFOID:0000000011378260

<sup>\*2:</sup> The RH camber angle shall be -0°  $15'\pm0^\circ$  33′ (-0.25°± 0.55°) with respect to the LH camber angle.

<sup>\*3:</sup> For the caster angle, the difference between right and left against the ground surface shall be  $\pm~0^{\circ}~30'~(\pm~0.50^{\circ})$  maximum.

Unit: mm (in)



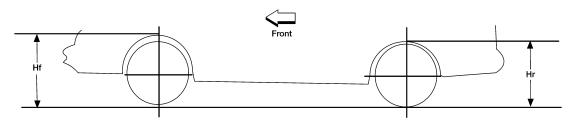
LEIA0085E

Engine	QR25DE		VQ35DE
Tire size	215/60R16	215/55R17	235/45R18
Front (Hf)	708 (27.87)	711 (27.99)	714 (28.11)
Rear (Hr)	706 (27.80)	709 (27.91)	711 (27.99)

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

#### **CANADA**

Unit: mm (in)



LEIA0085E

Engine	QR25DE		VQ35DE	
Tire size	215/60R16 215/55R17		235/45R18	
Front (Hf)	707 (27.83)	710 (27.95)	715 (28.15)	
Rear (Hr)	706 (27.80)	710 (27.95)	712 (28.03)	

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

# **Brake Specifications**

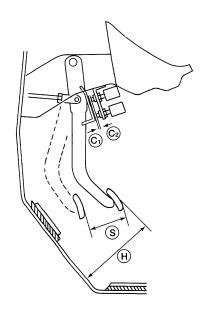
INFOID:0000000011378257

Unit: mm (in)

	Cylinder bore diameter	57.2 (2.252)
Front brake	Pad length × width × thickness	114 × 47 × 10 (4.488 × 1.850 × 0.394)
	Rotor outer diameter × thickness	296 × 26 (11.654 × 1.024)
	Cylinder bore diameter	34.93 (1.375)
Rear brake	Pad length × width × thickness	83 × 33 × 8.5 (3.268 × 1.299 × 0.335)
	Rotor outer diameter × thickness	292 × 9 (11.496 × 0.354)
Master cylinder	Cylinder bore diameter	25 (0.984)
Control valve	Valve model	Electric brake force distribution
Brake booster	Diaphragm diameter	280 (11)
Recommended b	prake fluid	DOT 3

Brake Pedal

Unit: mm (in)



AWFIA0913ZZ

Item	Standard	
Brake pedal height (H) (from dash lower panel top surface)	181.4 - 191.4 (7.1 - 7.5)	
Brake pedal full stroke (S)	135.3 (5.3)	
Clearance between stopper bracket (C1) and threaded end of the stop lamp switch and brake pedal position switch (C2)	0.74 - 1.96 (0.0291 - 0.0772)	

Front Disc Brake

Unit: mm (in)

Brake pad	Standard thickness (new) 11.0 (0.433)	11.0 (0.433)	
Brake pad	Wear limit thickness	2.0 (0.079)	
Standard thickness (new	Standard thickness (new)	26.0 (1.024)	
Disc brake rotor	Wear limit thickness	24.0 (0.945)	
DISC DIAKE TOLOI	Thickness variation (measured at 8 positions)	0.015 (0.0006)	
	Maximum runout (with it attached to the vehicle)	0.040 (0.0016)	

Rear Disc Brake

Unit: mm (in)

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

### Fluids and Lubricants

INFOID:0000000011378254

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

Description		Capacity (Approximate)			
		Metric	US measure	Imp measure	
Fuel		QR25DE	20.0	18 gal	1F mal
ruei		VQ35DE	68 <i>l</i>	To gai	15 gal
	With oil filter	QR25DE	4.6 ℓ	4-7/8 qt	4 qt
Engine oil	change	VQ35DE	4.8 ℓ	5-1/8 qt	4-1/4 qt
Drain and refill	Without oil fil-	QR25DE	4.3 ℓ	4-1/2 qt	3-3/4 qt
	ter change	VQ35DE	4.5 ℓ	4-3/4 qt	4 qt
Dry engine (engine overhaul)		QR25DE	5.3 ℓ	5-5/8 qt	4-5/8 qt
		VQ35DE	5.2 ℓ	5-1/2 qt	4-5/8 qt
(with reservoir tank		QR25DE	7.9 ℓ	8-3/8 qt	7 qt
		VQ35DE	9.2 ℓ	9-3/4 qt	8-1/8 qt
CVT fluid		RE0F10D	7.4 <i>l</i>	7-7/8 qt	6-1/2 qt
CVI IIuia		RE0F10H	8.2 ℓ	8-5/8 qt	7-1/4 qt
Power steering f	luid (E-PSF)		1.1 ℓ	1-1/8 qt	1 qt
Brake fluid		_	_	_	
Multi-purpose grease		_	_	_	
Windshield washer fluid		4.2 ℓ	4-1/2 qt	3-3/4 qt	
Air conditioner system refrigerant		$0.525 \pm 0.025 \ \text{kg}$	1.158 ± 0.055 lb	1.158 ± 0.055 lb	
Air conditioner system oil		128 m ℓ	4.3 fl oz	4.5 fl oz	