| Edition: August 2010                         | QUICK REFERENCE INDEX                        |  |   |  |  |  |
|--|--|--|---|--|--|--|
| Edition: August 2010<br>Revision: March 2012 | A GENERAL INFORMATION GI General Information |  |   |  |  |  |
| Publication No. SM1E-1D40U1                  | 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                           |   |  |  |  |
|  | C HYBRID                                     | HBC Hybrid Control System                                |   |  |  |  |
|  |  | HBB Hybrid Battery System<br>CL Clutch                   |   |  |  |  |
|  | D TRANSMISSION & DRIVE-<br>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                                 | C |  |  |  |
|  | G STEERING                                   | ST Steering System                                       |   |  |  |  |
| NISSAN                                       |  | STC Steering Control System                              |   |  |  |  |
| COONTICO                                     | H RESTRAINTS                                 | SB Seat Belt   |   |  |  |  |
| FRONTIER                                     |  | SBC Seat Belt Control System<br>SR SRS Airbag            |   |  |  |  |
|  |  | SRC SRS Airbag Control System                            |   |  |  |  |
| MODEL D40 SERIES                             | 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 Autodrive Positioner System                          |   |  |  |  |
|  |  | AP Adjustable Pedals                                     |   |  |  |  |
|  | K BODY EXTERIOR,<br>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   |   |  |  |  |
| All rights reserved. No part                 | M ELECTRICAL & POWER<br>CONTROL              | PWO Power Outlet   |   |  |  |  |
| of this Service Manual may                   | CONTROL                                      | BCS Body Control System                                  |   |  |  |  |
| be reproduced or stored in a                 |  | LAN LAN System PCS Power Control System                  |   |  |  |  |
| retrieval system, or transmit-               |  | CHG Charging System                                      |   |  |  |  |
| ted in any form, or by any                   |  | PG Power Supply, Ground & Circuit Elements               | P |  |  |  |
| 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  |   |  |  |  |
| prior written permission of                  |  | AV Audio, Visual & Navigation System                     |   |  |  |  |
| Nissan North America, Inc.                   | O CRUISE CONTROL                             | CCS Cruise Control System                                |   |  |  |  |
|  | P MAINTENANCE                                | MA Maintenance   |   |  |  |  |
|  |  |  |   |  |  |  |

# FOREWORD

This manual contains maintenance and repair procedure for the 2011 NISSAN FRONTIER.

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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|  |   |

## Engine Tune-up Data: QR25DE

GENERAL SPECIFICATIONS

| Cylinder arrangement   |                                      | In-line 4                    |  |  |
|--|--------------------------------------|------------------------------|--|--|
| Displacement   | cm <sup>3</sup> (cu in)              | 2,488 (151.82)               |  |  |
| Bore and stroke  | mm (in)                              | 89.0 x 100.0 (3.504 x 3.937) |  |  |
| Valve arrangement  |                                      | DOHC                         |  |  |
| Firing order   |                                      | 1-3-4-2                      |  |  |
| Number of picton ringe   | Compression                          | 2                            |  |  |
| Number of piston rings   | Oil                                  | 1                            |  |  |
| Compression ratio  |                                      | 9.5                          |  |  |
| Standard   |                                      | 1,304 (13.3, 189)            |  |  |
| Compression pressure<br>kPa (kg/cm <sup>2</sup> , psi) / 250 rpm | Minimum                              | 1,108 (11.3, 161)            |  |  |
| R a (19/011 , p3/) / 200 ipin                                    | Differential limit between cylinders | 100 (1.0, 14)                |  |  |

#### DRIVE BELT

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

#### SPARK PLUG

| Make           | NGK               |
|----------------|-------------------|
| Standard type* | PLZKAR6A–11       |
| Gap (nominal)  | 1.1 mm (0.043 in) |

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

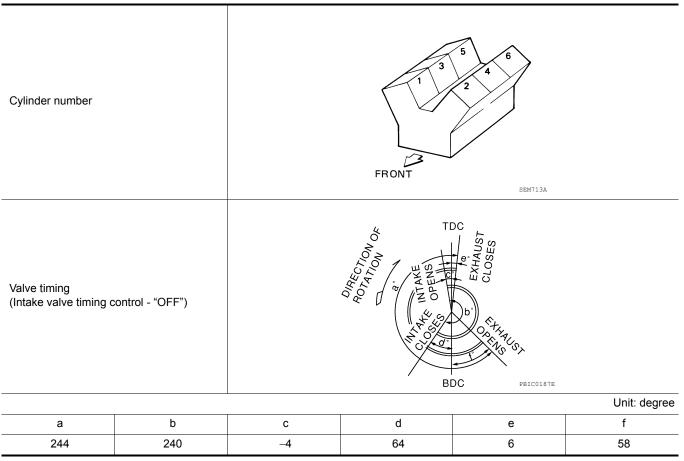
### Engine Tune-up Data: VQ40DE

INFOID:000000006836008

#### GENERAL SPECIFICATIONS

| Cylinder arrangement   |                                      | V-6               |  |  |
|--|--------------------------------------|-------------------|--|--|
| Displacement cm <sup>3</sup> (cu in)                           | 3,954 (241.30)                       |                   |  |  |
| Bore and stroke mm (in)  | 95.5 × 92.0 (3.76 × 3.622)           |                   |  |  |
| Valve arrangement  | DOHC                                 |                   |  |  |
| Firing order   |                                      | 1-2-3-4-5-6       |  |  |
| Number of pictor rings   | Compression                          | 2                 |  |  |
| Number of piston rings   | Oil                                  | 1                 |  |  |
| Number of main bearings  |                                      | 4                 |  |  |
| Compression ratio  |                                      | 9.7               |  |  |
|  | Standard                             | 1,275 (13.0, 185) |  |  |
| Compression pressure<br>kPa (kg/cm <sup>2</sup> , psi)/300 rpm | Minimum                              | 981 (10.0, 142)   |  |  |
|  | Differential limit between cylinders | 98 (1.0, 14)      |  |  |

INFOID:000000006836009



#### DRIVE BELT

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

#### SPARK PLUG

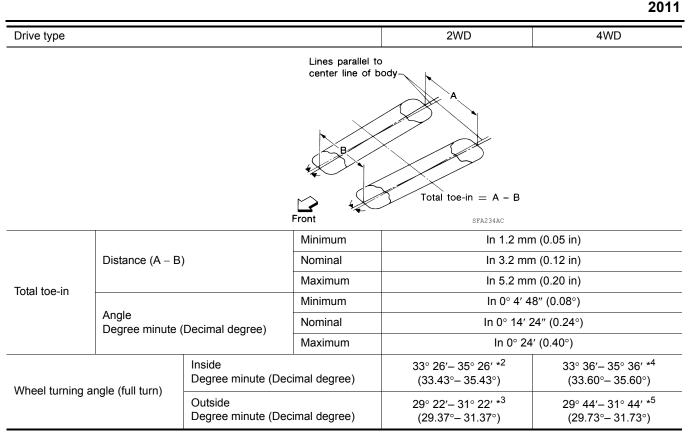
| Make           | NGK               |
|----------------|-------------------|
| Standard type* | DILFR5A-11        |
| Gap (nominal)  | 1.1 mm (0.043 in) |

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

#### Front Wheel Alignment (Unladen\*1)\*6

INFOID:00000006836006

| Drive type  | 2WD          | 4WD                                |                                    |  |
|---|--------------|------------------------------------|------------------------------------|--|
|   | Minimum      | -0° 30′ (-0.50°)                   | -0° 15′ (-0.25°)                   |  |
| Camber<br>Degree minute (decimal degree)              | Nominal      | 0° 15′ (0.25°)                     | 0° 30′ (0.50°)                     |  |
|   | Maximum      | 1° 0′ (1.00°)                      | 1° 15′ (1.25°)                     |  |
|   | Cross camber | $0^\circ~45'~(0.75^\circ)$ or less | 0° 45' (0.75°) or less             |  |
| Caster<br>Degree minute (decimal degree)              | Minimum      | 2° 15′ (2.25°)                     | 2° 0′ (2.00°)                      |  |
|   | Nominal      | 3° 0′ (3.00°)                      | 2° 45′ (2.75°)                     |  |
|   | Maximum      | 3° 45′ (3.75°)                     | 3° 30′ (3.50°)                     |  |
|   | Cross caster | $0^\circ~45'~(0.75^\circ)$ or less | $0^\circ~45'~(0.75^\circ)$ or less |  |
| Kingpin inclination<br>Degree minute (decimal degree) | Nominal      | 13° 0′ (13.00°)                    | 12° 45′ (12.75°)                   |  |



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

\*2: Target value 35° 26' (35.43°)

\*3: Target value 31° 22' (31.37°)

\*4: Target value 35° 36' (35.60°)

\*5: Target value 31° 44' (31.73°)

\*6: Some vehicles may be equipped with straight (non-adjustable) lower link bolts and washers. In order to adjust camber and caster on these vehicles, first replace the lower link bolts and washers with adjustable (cam) bolts and washers.

#### General Specification (Rear)

INFOID:000000006836005

| Suspension type     | Rigid axle with semi-elliptic leaf springs |
|---------------------|--|
| Shock absorber type | Double-acting hydraulic                    |

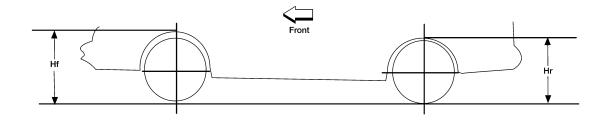
## Wheelarch Height (Unladen\*<sup>1</sup>)

King Cab

Unit: mm (in)

INFOID:000000006836007

LEIA0085E



 Drive type
 2WD
 4WD

 Engine type
 QR25DE
 VQ40DE

 Tire size
 P235/75R15
 P265/70R16
 P265/75R16
 P265/70R16
 P265/75R16
 P265/70R16
 P265/70R16

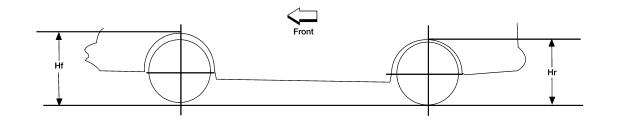
| Front wheelarch height (Hf) | 850     | 865     | 868     | 880     | 881     | 893     |
|-----------------------------|---------|---------|---------|---------|---------|---------|
|                             | (33.46) | (34.06) | (34.17) | (34.65) | (34.68) | (35.16) |
| Rear wheelarch height (Hr)  | 878     | 887     | 895     | 907     | 904     | 917     |
|                             | (34.57) | (34.92) | (35.24) | (35.71) | (35.59) | (36.10) |

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

Crew Cab

Unit: mm (in)

LEIA0085E



| Engine type                       | VQ40DE                |                |                |                |                |                |                |                      |                |                |
|-----------------------------------|-----------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------------|----------------|----------------|
| Drive type                        | 2WD 4WD               |                |                | 2WD            |                |                |                |                      |                |                |
| Tire size                         | P265/70R16 P265/75R16 |                |                | P265/          | P265/60R18     |                | 70R16          | P265/75R16 P265/60R1 |                | 60R18          |
| Wheel base                        | Short                 | Long           | Short          | Short          | Long           | Short          | Long           | Short                | Short          | Long           |
| Front<br>wheelarch<br>height (Hf) | 867<br>(34.13)        | 870<br>(34.25) | 879<br>(34.61) | 866<br>(34.09) | 869<br>(34.21) | 879<br>(34.61) | 882<br>(34.72) | 891<br>(35.08)       | 879<br>(34.61) | 882<br>(34.72) |
| Rear<br>wheelarch<br>height (Hr)  | 892<br>(35.12)        | 892<br>(35.12) | 904<br>(35.59) | 892<br>(35.12) | 892<br>(35.12) | 905<br>(35.63) | 902<br>(35.51) | 918<br>(36.14)       | 905<br>(35.63) | 902<br>(35.51) |

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

# **Brake Specifications**

INFOID:000000006836003

Unit: mm (in)

| Engine Type   |                                  | QR25DE                                     | VQ40DE                    |  |
|---------------|----------------------------------|--|---------------------------|--|
| Front brake   | Brake model                      | CLZ  | 33VA                      |  |
|               | Rotor outer diameter × thickness | 283 × 28 (11.142 × 1.102)                  | 296 × 28 (11.654 × 1.102) |  |
|               | Pad Length × width × thickness   | 140 × 50.5 × 10 (5                         | 5.51 × 1.99 × 0.39)       |  |
|               | Cylinder bore diameter (each)    | 46.4                                       | (1.83)                    |  |
| Rear brake    | Brake model                      | CLZ14VA                                    |                           |  |
|               | Rotor outer diameter × thickness | 286 × 18 (11.260 × 0.709)                  |                           |  |
|               | Pad length × width × thickness   | 87.6 × 35.5 × 11.0 (3.449 × 1.398 × 0.433) |                           |  |
|               | Cylinder bore diameter           | 38.1 (1.50)                                |                           |  |
| Control valve | Valve model                      | Electric brake force distribution          |                           |  |
| Brake booster | Booster model                    | C215T                                      |                           |  |
|               | Diaphragm diameter               | 215 (8.465)                                |                           |  |

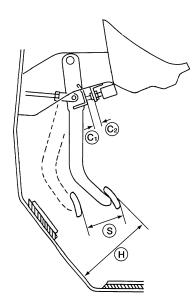
2011

#### Brake Pedal

INFOID:000000006836004

2011

Unit: mm (in)



| AWF: | IAO | 55 | 72Z |
|------|-----|----|-----|

| Pedal free height (H)   | M/T | 174.7 +10, -0 (6.88 +0.39, -0) |
|---|-----|--------------------------------|
| Pedal free height (H)   |     | 182.1 +10, -0 (7.17 +0.39, -0) |
| Pedal full stroke (S)   |     | 153 (6.02)                     |
| Clearance between pedal stopper and threaded end of stop lamp switch (C1) and ASCD cancel switch (C2) (if equipped) |     | 0.74 - 1.96 (0.029 - 0.077)    |

### Front Disc Brake

INFOID:000000006836001

|             |  | Unit: mm (in)   |
|-------------|--|-----------------|
| Engine type |  | QR25DE / VQ40DE |
| Brake model |  | CLZ33VA         |
| Prako pad   | Standard thickness (new)                       | 10.0 (0.394)    |
| Brake pad   | Repair limit thickness                         | 2.0 (0.079)     |
|             | Standard thickness (new)                       | 28.0 (1.102)    |
| Disc rotor  | Repair limit thickness                         | 26.0 (1.024)    |
| DISCIDIO    | Maximum uneven wear (measured at 8 positions)  | 0.015 (0.0006)  |
|             | Runout limit (with it attached to the vehicle) | 0.05 (0.0020)   |

#### Rear Disc Brake

INFOID:000000006836002

Unit: mm (in)

| Engine type |   | QR25DE / VQ40DE |
|-------------|---|-----------------|
| Brake model |   | CLZ14VA         |
| Brake pad   | Standard thickness (new)                      | 11.0 (0.433)    |
| Блаке рац   | Repair limit thickness                        | 2.0 (0.079)     |
|             | Standard thickness (new)                      | 18.0 (0.709)    |
| Disc rotor  | Repair limit thickness                        | 16.0 (0.630)    |
|             | Maximum uneven wear (measured at 8 positions) | 0.015 (0.0006)  |

# Fluids and Lubricants: USA and CANADA

INFOID:000000006835995

#### QR25DE

| Description                                |                             | Capacity (Approximate)  |                         |                         |  |
|--|-----------------------------|-------------------------|-------------------------|-------------------------|--|
|  |                             | Metric                  | US measure              | Imp measure             |  |
| Fuel                                       |                             | 80 <i>l</i>             | 21 1/8 gal              | 17 5/8 gal              |  |
| Engine oil                                 | With oil filter change      | 4.6 <i>l</i>            | 4 7/8 qt                | 4 qt                    |  |
| Drain and refill                           | Without oil filter change   | 4.3 l                   | 4 1/2 qt                | 3 3/4 qt                |  |
| Dry engine (engine ove                     | rhaul)                      | 5.0 l                   | 5 1/4 qt                | 4 3/8 qt                |  |
| Cooling system                             | With reservoir at MAX level | 9.4 <i>l</i>            | 10 qt                   | 8 1/4 qt                |  |
| Automatic transmission fluid (ATF)         |                             | 10.3 <i>l</i>           | 10 7/8 qt               | 9 1/8 qt                |  |
| Manual transmission fluid (MTF)<br>(5 M/T) |                             | 2.89 <i>l</i>           | 6 1/8 pt                | 5 1/8 pt                |  |
| Rear final drive oil                       | C200                        | 1.6 <i>l</i>            | 3 3/8 pt                | 2 7/8 pt                |  |
| Power steering fluid (PSF)                 |                             | 1.0 <i>l</i>            | 2 1/8 pt                | 1 3/4 pt                |  |
| Brake and clutch fluids                    |                             | _                       | —                       |                         |  |
| Multi-purpose grease                       |                             | _                       | —                       | _                       |  |
| Windshield washer fluid                    |                             | 4.5 <i>l</i>            | 1 1/4 gal               | 1 gal                   |  |
| Air conditioning system refrigerant        |                             | $0.70\pm0.05~\text{kg}$ | $1.54\pm0.11\text{ lb}$ | $1.54\pm0.11\text{ lb}$ |  |
| Air conditioning system oil                |                             | 180 m ℓ                 | 6.1 fl oz               | 6.3 fl oz               |  |

#### VQ40DE

| Description                  |                             | Capacity (Approximate) |            |             |
|------------------------------|-----------------------------|------------------------|------------|-------------|
|                              |                             | Metric                 | US measure | Imp measure |
|                              |                             | 80 l                   | 21 1/8 gal | 17 5/8 gal  |
| Engine oil                   | With oil filter change      | 5.1 l                  | 5 3/8 qt   | 4 1/2 qt    |
| Drain and refill             | Without oil filter change   | 4.8 <i>l</i>           | 5 1/8 qt   | 4 1/4 qt    |
| Dry engine (engine overhaul) | )                           | 6.3 l                  | 6 5/8 qt   | 5 1/2 qt    |
| Cooling system               | With reservoir at MAX level | 10.2 <i>l</i>          | 10 3/4 qt  | 9 qt        |
| Automatic transmission fluid | (ATF)                       | 10.3 <i>l</i>          | 10 7/8 qt  | 9 1/8 qt    |
| Manual transmission fluid    | 2WD                         | 3.98 l                 | 8 3/8 pt   | 7 pt        |
| (MTF)<br>(6 M/T)             | 4WD                         | 4.18 <i>l</i>          | 8 7/8 pt   | 7 3/8 pt    |
| Rear final drive oil         | C200                        | 1.6 <i>l</i>           | 3 3/8 pt   | 2 7/8 pt    |
| Real linal drive oli         | M226                        | 2.01 <i>l</i>          | 4 1/4 pt   | 3 1/2 pt    |
| Transfer fluid               | TX15B                       | 2.0 <i>l</i>           | 2 1/8 qt   | 1 3/4 qt    |
| Front final drive oil        |                             | 0.85 <i>l</i>          | 1 3/4 pt   | 1 1/2 pt    |
| Power steering fluid (PSF)   |                             | 1.0 <i>l</i>           | 2 1/8 pt   | 1 3/4 pt    |
| Brake and clutch fluid       |                             | —                      | —          | —           |
| Multi-purpose grease         |                             | —                      | _          | —           |
| Windshield washer fluid      |                             | 4.5 <i>l</i>           | 1-1/4 gal  | 1 gal       |

| Description            | Capacity (Approximate)  |                         |                         |  |
|------------------------|-------------------------|-------------------------|-------------------------|--|
| Description            | Metric                  | US measure              | Imp measure             |  |
| A/C system refrigerant | $0.70\pm0.05~\text{kg}$ | $1.54\pm0.11~\text{lb}$ | $1.54\pm0.11~\text{lb}$ |  |
| A/C system oil         | 180 m <i>l</i>          | 6.1 fl oz               | 6.3 fl oz               |  |

# Fluids and Lubricants: For MEXICO

INFOID:000000006835998

#### VQ40DE

| Description                                       |                           | Capacity (Approximate)  |                         |                         |
|---|---------------------------|-------------------------|-------------------------|-------------------------|
|   |                           | Metric                  | US measure              | Imp measure             |
| Fuel  |                           | 80 l                    | 21 1/8 gal              | 17 5/8 gal              |
| Engine oil  | With oil filter change    | 5.1 <i>l</i>            | 5 3/8 qt                | 4 1/2 qt                |
| Drain and refill                                  | Without oil filter change | 4.8 l                   | 5 1/8 qt                | 4 1/4 qt                |
| Dry engine (engine overhaul)                      |                           | 6.3 l                   | 6 5/8 qt                | 5 1/2 qt                |
| Cooling system<br>(with reservoir at "MAX" level) |                           | 10.2 ℓ                  | 10 3/4 qt               | 9 qt                    |
| Automatic transmission fluid (ATF)                |                           | 10.3 <i>l</i>           | 10 7/8 qt               | 9 1/8 qt                |
| Rear final drive oil                              |                           | 2.01 <i>l</i>           | 4 1/4 pt                | 3 1/2 pt                |
| Transfer fluid                                    |                           | 2.0 l                   | 2 1/8 qt                | 1 3/4 qt                |
| Front final drive oil                             |                           | 0.85 <i>l</i>           | 1 3/4 pt                | 1 1/2 pt                |
| Power steering fluid (PSF)                        |                           | 1.0 <i>l</i>            | 2 1/8 pt                | 1 3/4 pt                |
| Brake fluid                                       |                           | _                       | _                       | _                       |
| Multi-purpose grease                              |                           | —                       | _                       | _                       |
| Windshield washer fluid                           |                           | 4.5 l                   | 1 1/4 gal               | 1 gal                   |
| A/C system refrigerant                            |                           | $0.70\pm0.05~\text{kg}$ | $1.54\pm0.11~\text{lb}$ | $1.54\pm0.11~\text{lb}$ |
| A/C system oil                                    |                           | 180 mℓ                  | 6.1 fl oz               | 6.3 fl oz               |