| Edition: Deptember 2011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                              |                            |     |                            |
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| Publication No. SMZE-1E52U0  A GENERAL INFORMATION B ENGINE Lubrication System EC Engine Control System EC Exchange System EC Exchange System EC Exchange System EC Exchange System EC Engine Control System EC Exchange System EC Engine Control System EC Exchange System EC Engine Control System EC Exchange System EC Engine System EC Exchange System EC Engine Control System EC Engine System EC Engine System EC Exchange System EC Exchange System EC Engine System EC Engine System EC Exchange Syste | Edition: September 2011      | QUICK REFERENCE INDEX      |     |                            |
| D TRANSMISSION & DRIVELINE  TM Transaxis & Transmission  C ELECTRIC POWER TRAIN  C ELECTRIC POWER TRAIN  TM Transaxis & Transmission  C ELECTRIC POWER TRAIN  C ELECTRIC POWER TRAIN  C ELECTRIC POWER TRAIN  TM Transaxis & Transmission  FAX Front Asis  FAX Forth Asis  FAX | Publication No. SM2E-1E52U0  | A GENERAL INFORMATION      | GI  | General Information        |
| C ELECTRIC POWER TRAIN  THE PILE System FL Fuel System FL Font Axle FL Font Axle FL Font System FL Font System FL Font System FL Font System FL Fuel System  |                              | B ENGINE                   | EM  | Engine Mechanical          |
| C ELECTRIC POWER TRAIN  The System EX Exhaust System STR Starting System ACC Accelerator Control System The Transaxle & Transmission  FAX Front Axle  E SUSPENSION FAX Front Axle RAX Rear Axle RAX Rear Axle RAY REAR RAY RAY REAR Axle  |                              |                            | LU  |                            |
| TELECTRIC POWER TRAIN  C ELECTRIC POWER TRAIN  C Accelerator Control System  ACC Accelerator Control System  The Transante & Transmission  FAX Front Axle  FAX Front Axle  FAX Front Axle  FAX Front Axle  FAX Front Suspension  RAX Rear Axle  FAX Front Suspension  FAX Front Suspen |                              |                            |     |                            |
| THE STANK OF THE PROPERTY OF T |                              |                            |     |                            |
| THE STRAINS SIGN & DRIVELINE  D TRANSMISSION & DRIVELINE  TM Transance & Transmission  FAX Front Avis  E SUSPENSION  GUEST  MODEL E52 SERIES  E SUSPENSION  FAX Front Avis  E SUSPENSION  FAX Front Avis  FAX Front Suspension  RSV Front Suspension  RSV Front Suspension  FAX Front Suspensi |                              |                            |     |                            |
| C ELECTRIC POWER TRAIN  D TRANSMISSION & DRIVELINE  TM Transarile & Transmission  FAX Front Axile FAX Rear Axil |                              |                            |     |                            |
| D TRANSMISSION & DRIVELINE  TH Transaxie & Transmission  FAX Front Atie  FAX F |                              |                            |     | Starting System            |
| D TRANSMISSION & DRIVELINE The Transack & Transmission  FAX Front Axie  RAX Rear Axie  FAX Front Axie  RAX FAX Front Axie  RAX Rear Axie  FAX Front Axie  RAX Fax FAX Front Axie  FAX Forth Axie  FAX |                              | O ELECTRIC POWER TRAIN     | ACC | Accelerator Control System |
| TM Transaxle & Transmission  FAX Front Azle FAX Front Azle FAX Rear Azle FAX System FAX Steering Control System FAX Rear Azle FAX FAX Rear Azle FAX Rear Azle FAX System FAX Rear Azle FAX FAX Rear Azle FAX Rear Azle FAX System FAX Steering Control System FAX Rear Azle FAX System FAX Rear Azle FAX System FAX Steering Control System FAX Rear Azle FAX System FAX Rear Azle FAX System FAX Steering Control System FAX Rear Azle FAX FAX Rear Azle FAX Suspansion FAX Rear Azle FAX FAX Rear Azle FAX Rear Azle FAX FAX Rear Azle FAX Rear Azle FAX System FAX Steering Control System FAX Steering Control System FAX FAX FAX System FAX Rear Azle FAX System FAX Steering Control System FAX Steering Control System FAX Steering Control System FAX System FAX System FAX Rear Azle FAX System FAX Steering Control System FAX Syste |                              | C ELECTRIC POWER TRAIN     |     |                            |
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| PAX Front Axie RAX Raar Suspension RSU Rear Ruspension RSU Rear Suspension RSS Aribag System RSC Stearing Control System RA Heater & Air Conditioning System RSC Stearing Control System RSC Stearing Control System RSC Society Control System RSC Society Rotar Suspension RSC Roof Raine System RSU Rear Suspension RSC Stearing Roof Raine System RSC Stearing Control System RSS Stear Suspension RSC Stearing Roof Raine System RSC Stearing Control System RSC Stearing Raine System RSC Stearing Raine System RSC Stear Suspension RSC Stear Sus |                              | D TRANSMISSION & DRIVELINE |     |                            |
| RAX. Raar Axle  E SUSPENSION  E Rear Suspension  With Road Winbels & Tires  B R Brake System  PB Parking Brake System  PB Parking Brake System  PB Parking Brake System  E SUSPENSION  E BRAKES  F BRAKE System  FREC BRAKE SYSTE |                              |                            | TM  | Transaxle & Transmission   |
| RAX. Raar Axle  E SUSPENSION  E Rear Suspension  With Road Winbels & Tires  B R Brake System  PB Parking Brake System  PB Parking Brake System  PB Parking Brake System  E SUSPENSION  E BRAKES  F BRAKE System  FREC BRAKE SYSTE |                              |                            |     |                            |
| QUEST MODEL E52 SERIES  F BRAKES F BRAKES F BRAKES BR Brake System P Parking Brake System BRC Brake Control System STC Steering Control System STC Steering System H RESTRAINTS SB Seat Belt  I VENTILATION, HEATER & AIR VIL. Ventilation System HAC Heater & AIR Conditioning  | NUCCARI                      |                            |     |                            |
| QUEST MODEL E52 SERIES  F BRAKES F BRAKES F BRAKES BR Brake System P Parking Brake System BRC Brake Control System STC Steering Control System STC Steering System H RESTRAINTS SB Seat Belt  I VENTILATION, HEATER & AIR VIL. Ventilation System HAC Heater & AIR Conditioning  | INIDDAIN                     | E GUODENSION               |     |                            |
| MODEL E52 SERIES    F BRAKES   BR Brake System   PB Parking Brake Control System   PB Parking Ching System   PB Parking Control System   PB Parking Contro |                              | E SUSPENSION               |     |                            |
| F BRAKES  BR Brake System  PB Parking Brake System  PB Parking Brake System  PB Parking Brake System  BR Brake System  PB Parking Brake System  PB Parking Brake System  ST Steering System  ST Steering Control System  ST Steering Control System  ST Steering Control System  SR SRS Airbag Control System  VTL Ventilation, HEATER & AIR CONDITIONER  I VENTILATION, HEATER & AIR CONDITIONER  I VENTILATION, HEATER & AIR CONDITIONER  AIR CONDITIONER  I VENTILATION, HEATER & AIR CONDITIONER  I VENTILATION, HEATER & AIR CONDITIONER  HA Heater & AIR Conditioning System  HA Heater & AIR Conditioning Control System  INT Interior  III Interior  III Interior  SE Seat  AIR AND Automatic Drive Positioner  AIR DOOF & VEHICLE SECURITY  SEC Security Control System  PMC Power Window Control System  PMC Power Window Control System  RR Roof  EXT Exterior  BRM Body Repair  INL Interior Lighting System  Will Per Washer  DEF Defogger  HAN Horn  MR Mirrors  EXL Exterior Lighting System  INL Interior Lighting S | QUEST                        |                            | RSU | Rear Suspension            |
| F BRAKES  BR Brake System  PB Parking Brake System  PB Parking Brake System  PB Parking Brake System  BR Brake System  PB Parking Brake System  PB Parking Brake System  ST Steering System  ST Steering Control System  ST Steering Control System  ST Steering Control System  SR SRS Airbag Control System  VTL Ventilation, HEATER & AIR CONDITIONER  I VENTILATION, HEATER & AIR CONDITIONER  I VENTILATION, HEATER & AIR CONDITIONER  AIR CONDITIONER  I VENTILATION, HEATER & AIR CONDITIONER  I VENTILATION, HEATER & AIR CONDITIONER  HA Heater & AIR Conditioning System  HA Heater & AIR Conditioning Control System  INT Interior  III Interior  III Interior  SE Seat  AIR AND Automatic Drive Positioner  AIR DOOF & VEHICLE SECURITY  SEC Security Control System  PMC Power Window Control System  PMC Power Window Control System  RR Roof  EXT Exterior  BRM Body Repair  INL Interior Lighting System  Will Per Washer  DEF Defogger  HAN Horn  MR Mirrors  EXL Exterior Lighting System  INL Interior Lighting S | MODEL E52 SERIES             |                            | WT  | Pood Whoole & Tires        |
| G STEERING  G STEERING  G STEERING  ST Steering System  STC Steering Control System  STC STEERING  STC STEERIN |                              | E BRAKES                   |     |                            |
| G STEERING ST Steering System ST Steering Control System SR Steering Control System SR SRS Airbag Control System SR SRS Airbag Control System  I VENTILATION, HEATER & AIR CONDITIONER AIR Heater & Air Conditioning System HA Heater & Air Conditioning Control System DILK Door & Lock SEC Security Control System GW Glass & Window System PWC Power Window Control System GW Glass & Window System PWC Power Window Control System RF Roof  EXT Exterior EXT Exterior BRIM Body Repair L DRIVER CONTROLS MIR Mirrors EXT Exterior Lighting System INL Interior Lighting System WW Wiper & Washer Defe Defoger HRN Horn  M ELECTRICAL & POWER CON- TROL  M M WIND MITTOR  M M MITTOR M M MITTOR M M MITTOR M M MITTOR M M MITTOR M M MI |                              | . DIANES                   |     |                            |
| G STEERING ST Steering System  H RESTRAINTS SB Seat Belt  SR SRS Airbag SRC SRS Airbag Stem  VTL Ventilation System  HA Heater & Air Conditioning System  HA Heater & Air Conditioning System  HA Heater & Air Conditioning System  HAC Heater & Air Conditioning Control System  Interior  BRM Door & Lock  SEC Security Control System  GW Glass & Window System  PWC Power Window Control System  RF Roof  EXT Exterior  BRM Body Repair  Minrors  EXL Exterior Lighting System  WW Wiper & Washer  DEF Defogger  HRN Horn  M ELECTRICAL & POWER CON-  TROL  M CAN AUdio, Visual & Navigation System  WCS Warning Chimse System  AV Audio, Visual & Navigation System  DAS Driver Assistance System  DAS Driver Assistance System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                              |                            |     |                            |
| ## RESTRAINTS  ## A Heater & AIR Conditioning System  ## RESTRAINTS  ## A Heater & AIR Conditioning System  ## RESTRAINTS  ## A Heater & AIR Conditioning System  ## RESTRAINTS  ## A Heater & AIR Conditioning System  ## A Heater & AIR Conditioning Control System  ## A Heater & AIR Conditioning Co |                              | G STEERING                 |     |                            |
| H RESTRAINTS  SB Seat Belt  SR SRS Airbag SRC SRS Airbag Control System  VTL Ventilation 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  Duk Door & Lock  Sec Security Control System  GW Glass & Window System  PWC Power Window Control System  RF Roof  EXT Exterior  BRM Body Repair  INI Interior Lighting System  WW Wijer & Washer  DEF Defogger  HRN Horn  MELECTRICAL & POWER CONTROL  MELECTRICAL & POWER CONTROL  TROL  MELECTRICAL & POWER CONTROL  MELECTRICAL & POWER CONTROL  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, recording or otherwise, without the prior written permission of NISSAN MOTOR  HORD SEAN BOOT System  N DRIVER INFORMATION & MULTIMEDIA  N DRIVER INFORMATION & MULTIMEDIA  N DRIVER INFORMATION & MULTIMEDIA  O CRUISE CONTROL & DRIVER ASSISTANCE  DAS Driver Assistance System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                              | 5 5.1 <u>11</u> 5          |     |                            |
| VENTILATION, HEATER & AIR CONDITIONER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                              | H RESTRAINTS               |     |                            |
| VENTILATION, HEATER & AIR CONDITIONER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                              |                            |     |                            |
| T VENTILATION, HEATER & AIR CONDITIONER  INT Interior IP Instrument Panel SE Seat ADP Automatic Drive Positioner DLK Door & VEHICLE SECURITY SEC Security Control System PWC Power Window Control System RF Roof  L DRIVER CONTROLS  MIR Mirrors EXL Exterior 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, recording or otherwise, without the prior written permission of NISSAN MOTOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                              |                            | SR  |                            |
| CONDITIONER  HA 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 DLK Door & Lock ROOF & VEHICLE SECURITY SEC Security Control System GW Glass & Window System PWC Power Window Control System RF Roof EXT Exterior BRM Body Repair MIR Mirrors EXL Exterior Lighting System WW Wiper & Washer DEF Defogger HRN Horn  M ELECTRICAL & POWER CONTROL  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, recording or otherwise, without the prior written permission of NISSAN MOTOR  BODY INTERIOR  INT Interior IP Instrument Panel SE Security Control System DMK Mirrors EXL Exterior Lighting System WW Wiper & Washer DEF Defogger HRN Horn  PWO Power Outlet BCS Body Control System CHG Charging System CHG Charging System PG Power Supply, Ground & Circuit Elements  AV Audio, Visual & Navigation System  AV Audio, Visual & Navigation System DAS Driver Assistance System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                              |                            | SRC |                            |
| ## HAC Heater & Air Conditioning Control System    HAC Heater & Air Conditioning Control System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                              |                            |     | Ventilation System         |
| BODY INTERIOR  INT Interior IP Instrument Panel SE Seat ADP Automatic Drive Positioner  K BODY EXTERIOR, DOORS, ROOF & VEHICLE SECURITY  K BODY EXTERIOR, DOORS, ROOF & VEHICLE SECURITY  GW Glass & Window System PWC Power Window Control System  EXT Exterior BRM Body Repair Milk Mirrors EXT Exterior Lighting System INL Interior Lighting System WW Wiper & Washer DEF Defogger HRN Horn  M ELECTRICAL & POWER CONTROL  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, recording or otherwise, without the prior written permission of NISSAN MOTOR  INT Instrument Panel SE Seat ADP Automatic Drive Positioner DEK Security Control System GW Glass & Window Control System INL Interior 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 WCS Warning Chime System  WCS Warning Chime System  AV Audio, Visual & Navigation System DAS Driver Assistance System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                              | CONDITIONER                |     |                            |
| IP   Instrument Panel   SE   Seat   ADP   Automatic Drive Positioner                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                              |                            |     |                            |
| ## SE Seat ADP Automatic Drive Positioner    ADD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                              | J BODY INTERIOR            |     |                            |
| ADP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                              |                            |     |                            |
| K BODY EXTERIOR, DOORS, ROOF & VEHICLE SECURITY  ROOF & VEHICLE SECURITY  BC Security Control System  PWC Power Window Control System  RF Roof  EXT Exterior  BRM Body Repair  MR Mirrors  EXT Exterior Lighting System  INL Interior Lighting System  WW Wiper & Washer  DEF Defogger  HRN Horn  M ELECTRICAL & POWER CONTROLS  BCS Body Control System  LAN LAN System  PCS Power Control System  CHG Carging System  PG Power Supply, Ground & Circuit Elements  N DRIVER INFORMATION & MWI Meter, Warning Lamp & Indicator  WIND MIR MIR Mirrors  EXT Exterior  BRM Body Repair  MR Mirrors  EXT Exterior  BRM Body Repair  MR MIrrors  EXT Exterior  BCS Body Control System  CHG Carging System  PG Power Supply, Ground & Circuit Elements  N DRIVER INFORMATION & MWI Meter, Warning Lamp & Indicator  WARNING Chime System  AV Audio, Visual & Navigation System  DAS Driver Assistance System  DAS Driver Assistance System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                              |                            |     |                            |
| ROOF & VEHICLÉ SECURITY    SEC   Security Control System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                              | K BODY EXTERIOR DOORS      |     |                            |
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| PWC Power Window Control System RF Roof  EXT Exterior BRM Body Repair  MIR Mirrors  EXL Exterior Lighting System INL Interior Lighting System WW Wiper & Washer DEF Defogger HRN Horn  M ELECTRICAL & POWER CONTROL  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, recording or otherwise, without the prior written permission of NISSAN MOTOR  BRM Body Repair MIR Mirrors  EXL Exterior Lighting System WW Wiper & Washer DEF Defogger HRN Horn  WES Body Control System CHG Charging System PG Power Control System CHG Charging System PG Power Supply, Ground & Circuit Elements  N DRIVER INFORMATION & WCS Warning Chime System  O CRUISE CONTROL & CCS Cruise Control System DAS Driver Assistance System  DAS Driver Assistance System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                              |                            |     |                            |
| ### Recof    EXT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                              |                            |     |                            |
| EXT Exterior BRM Body Repair  L DRIVER CONTROLS  MIR Mirrors EXL Exterior Lighting System INL Interior Lighting System WW Wiper & Washer DEF Defogger HRN Horn  M ELECTRICAL & POWER CONTROLS  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, recording or otherwise, without the prior written permission of NISSAN MOTOR  EXT Exterior BRM Body Repair  MIR Mirrors  EXL Exterior Lighting System PPO Power Outlet BCS Body Control System PCS Power Control System CHG Charging System PG Power Supply, Ground & Circuit Elements WW Meter, Warning Lamp & Indicator WCS Warning Chime System  AV Audio, Visual & Navigation System DAS Driver Assistance System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                              |                            |     |                            |
| EXL Exterior Lighting System  WW Wiper & Washer  DEF Defogger  HRN Horn  WELECTRICAL & POWER CONTROL  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, recording or otherwise, without the prior written permission of NISSAN MOTOR  BRM Mirrors  EXL Exterior Lighting System  WW Wiper & Washer  DEF Defogger  HRN Horn  M ELECTRICAL & POWER CONTROL  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  O CRUISE CONTROL & CCS Cruise Control System  DAS Driver Assistance System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                              |                            |     |                            |
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| 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, recording or otherwise, without the prior written permission of NISSAN MOTOR  All rights reserved. No part LAN LAN System PCS Power Control 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  CCS Cruise Control System  DAS Driver Assistance System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                              |                            |     |                            |
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| ted in any form, or by any means, electronic, mechanical, recording or otherwise, without the prior written permission of NISSAN MOTOR  MULTIMEDIA  WCS Warning Chime System  AV Audio, Visual & Navigation System  CCS Cruise Control System  DAS Driver Assistance System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -                            |                            | MWI |                            |
| means, electronic, mechanical, recording or otherwise, without the prior written permission of NISSAN MOTOR  AV Audio, Visual & Navigation System  CCS Cruise Control System  DAS Driver Assistance System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                              | MULTIMEDIA                 | WCS |                            |
| cal, recording or otherwise, without the prior written permission of NISSAN MOTOR  O CRUISE CONTROL & CCS Cruise Control System  DAS Driver Assistance System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                              |                            |     |                            |
| without the prior written permission of NISSAN MOTOR  DRIVER ASSISTANCE  DAS Driver Assistance System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                              |                            |     |                            |
| mission of NISSAN MOTOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | _                            |                            |     |                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -                            | DRIVER ASSISTANCE          | DAS | Driver Assistance System   |
| CO., LTD. P MAINTENANCE MA Maintenance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                              | D. MAINTENANCE             |     | No.                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CO., LTD.                    | P MAINTENANCE              | MA  | Waintenance                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                              |                            |     |                            |

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# **FOREWORD**

This manual contains maintenance and repair procedure for the 2012 NISSAN QUEST.

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 MOTOR CO., LTD.** 



#### 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) 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 QUEST ENGINE TUNE-UP DATA (VQ35DE)

PFP:00000

ELS0003W

| Engine model                                     |                                                           |                                    | VQ35DE                                 |
|--------------------------------------------------|-----------------------------------------------------------|------------------------------------|----------------------------------------|
| Firing order                                     |                                                           |                                    | 1-2-3-4-5-6                            |
| Idle speed<br>CVT (In "P" or "N" posit           | ion)                                                      | rpm                                | 650 ± 50                               |
| Ignition timing (BTDC a CVT (In "P" or "N" posit |                                                           |                                    | 12° ± 2°                               |
| Tensions of drive belt                           |                                                           |                                    | Auto adjustment by auto tensioner      |
| Radiator cap relief pres                         | sure                                                      | kPa (kg/cm <sup>2</sup> , psi)     |                                        |
|                                                  | Standard                                                  |                                    | 122.3 - 151.7 (1.2 - 1.5, 17.7 - 22.0) |
| Limit                                            |                                                           |                                    | 108 (1.1, 15.6)                        |
| Cooling system leakage                           | Cooling system leakage testing pressure kPa (kg/cm², psi) |                                    | 156 (1.59, 22.6)                       |
| Compression pressure                             |                                                           | kPa (kg/cm <sup>2</sup> , psi)/rpm |                                        |
|                                                  | Standard                                                  |                                    | 1,275 (13.0, 185)/300                  |
|                                                  | Minimum                                                   |                                    | 981 (10.0, 142)/300                    |
| Spark plug                                       | Make                                                      |                                    | DENSO                                  |
|                                                  | Standard type                                             | )                                  | FXE22HR11                              |
|                                                  | Con                                                       | Standard                           | 1.1 mm (0.043 in)                      |
|                                                  | Gap                                                       | Limit                              | 1.4 mm (0.055 in)                      |

# FRONT WHEEL ALIGNMENT

ELS0003X

#### FOR USA MODELS

| Item                         |                                                                       | Star                        | ndard                             |                    |
|------------------------------|-----------------------------------------------------------------------|-----------------------------|-----------------------------------|--------------------|
|                              |                                                                       | Left side                   | Right side                        |                    |
|                              |                                                                       | Minimum                     | -1° 00′ (-1.00°)                  | -1° 15′ (-1.25°)   |
| Cambe                        | er                                                                    | Nominal                     | -0° 15′ (-0.25°)                  | -0° 30′ (-0.50°)   |
| Degree                       | e minute (Decimal degree)                                             | Maximum                     | 0° 30′ (0.50°)                    | 0° 15′ (0.25°)     |
|                              |                                                                       | Left and right difference*1 | -0° 18′ (-0.30°                   | ) - 0° 48′ (0.80°) |
|                              |                                                                       | Minimum                     | 3° 55′ (3.92°)                    | 4° 05′ (4.09°)     |
| Caster                       |                                                                       | Nominal                     | 4° 40′ (4.67°)                    | 4° 50′ (4.83°)     |
| Degree                       | e minute (Decimal degree)                                             | Maximum                     | 5° 25′ (5.41°)                    | 5° 35′ (5.58°)     |
|                              |                                                                       | Left and right difference*1 | -0° 18′ (-0.30°) - 0° 48′ (0.80°) |                    |
|                              |                                                                       | Minimum                     | 12° 00′ (12.00°)                  |                    |
|                              | n inclination<br>e minute (Decimal degree)                            | Nominal                     | 12° 45′ (12.75°)                  |                    |
| 209.00                       | o minute (2 com a cog. co)                                            | Maximum                     | 13° 30′ (13.50°)                  |                    |
|                              |                                                                       | Minimum                     | Out 0.4 mr                        | m (0.016 in)       |
| Total toe-in Distance Toe-in | Nominal                                                               | In 0.6 mm                   | 6 mm (0.024 in)                   |                    |
|                              |                                                                       | Maximum                     | In 1.6 mm                         | n (0.063 in)       |
|                              | , , ,                                                                 | Minimum                     | In 0° 02′ (0.04°)                 | In 0° 01′ (0.02°)  |
|                              | Toe angle (left wheel or right wheel)  Degree minute (Decimal degree) | Nominal                     | In 0° 04′ (0.07°)                 | In 0° 03′ (0.05°)  |
| 209.00 (200                  | = -9 (2 - 5 2 - 9. 6 - 6)                                             | Maximum                     | In 0° 06′ (0.10°)                 | In 0° 05′ (0.08°)  |

Measure value under unladen\*2 conditions.

<sup>\*1:</sup> A difference when assuming the left side a standard.

<sup>\*2:</sup> Fuel, engine coolant and lubricant are full. Spare tire, jack, hand tools and mats are in designated positions.

#### FOR CANADA MODELS

#### For 3.5S Grade

| ltem                                                                          |                                            | Star                        | ndard                             |                    |
|-------------------------------------------------------------------------------|--------------------------------------------|-----------------------------|-----------------------------------|--------------------|
|                                                                               |                                            | Left side                   | Right side                        |                    |
|                                                                               |                                            | Minimum                     | -1° 00′ (-1.00°)                  | -1° 15′ (-1.25°)   |
| Cambe                                                                         | er                                         | Nominal                     | -0° 15′ (-0.25°)                  | -0° 30′ (-0.50°)   |
| Degree                                                                        | e minute (Decimal degree)                  | Maximum                     | 0° 30′ (0.50°)                    | 0° 15′ (0.25°)     |
|                                                                               |                                            | Left and right difference*1 | −0° 18′ (−0.30°                   | ) - 0° 48′ (0.80°) |
|                                                                               |                                            | Minimum                     | 3° 50′ (3.84°)                    | 4° 05′ (4.09°)     |
| Caster                                                                        |                                            | Nominal                     | 4° 35′ (4.58°)                    | 4° 50′ (4.83°)     |
| Degree minute (Decimal degree)                                                |                                            | Maximum                     | 5° 20′ (5.33°)                    | 5° 35′ (5.58°)     |
|                                                                               |                                            | Left and right difference*1 | -0° 18′ (-0.30°) - 0° 48′ (0.80°) |                    |
|                                                                               |                                            | Minimum                     | 12° 00′ (12.00°)                  |                    |
| ٠.                                                                            | n inclination<br>e minute (Decimal degree) | Nominal                     | 12° 45′ (12.75°)                  |                    |
| Dogroc                                                                        | o minute (Beelman degree)                  | Maximum                     | 13° 30′ (13.50°)                  |                    |
|                                                                               |                                            | Minimum                     | Out 0.4 mm (0.016 in)             |                    |
|                                                                               | Total toe-in Distance                      | Nominal                     | In 0.6 mm (0.024 in)              |                    |
| Toe-in  Toe angle (left wheel or right wheel)  Degree minute (Decimal degree) | Diotarios                                  | Maximum                     | In 1.6 mm                         | n (0.063 in)       |
|                                                                               |                                            | Minimum                     | In 0° 02′ (0.04°)                 | In 0° 01′ (0.02°)  |
|                                                                               | ,                                          | Nominal                     | In 0° 04′ (0.07°)                 | In 0° 03′ (0.05°)  |
|                                                                               | 20g.coa.a (200111ai dogioo)                | Maximum                     | In 0° 06′ (0.10°)                 | In 0° 05′ (0.08°)  |

Measure value under unladen\*2 conditions.

#### For 3.5SV Grade

| ltem                                                                        |                                            | Star                        | ndard                             |                    |
|-----------------------------------------------------------------------------|--------------------------------------------|-----------------------------|-----------------------------------|--------------------|
|                                                                             |                                            | Left side                   | Right side                        |                    |
|                                                                             |                                            | Minimum                     | -1° 00′ (-1.00°)                  | -1° 15′ (-1.25°)   |
| Cambe                                                                       | er                                         | Nominal                     | -0° 15′ (-0.25°)                  | -0° 30′ (-0.50°)   |
| Degree                                                                      | e minute (Decimal degree)                  | Maximum                     | 0° 30′ (0.50°)                    | 0° 15′ (0.25°)     |
|                                                                             |                                            | Left and right difference*1 | -0° 18′ (-0.30°                   | ) - 0° 48′ (0.80°) |
|                                                                             |                                            | Minimum                     | 3° 50′ (3.84°)                    | 4° 00′ (4.00°)     |
| Caster                                                                      |                                            | Nominal                     | 4° 35′ (4.58°)                    | 4° 45′ (4.75°)     |
| Degree                                                                      | e minute (Decimal degree)                  | Maximum                     | 5° 20′ (5.33°)                    | 5° 30′ (5.50°)     |
|                                                                             |                                            | Left and right difference*1 | -0° 18′ (-0.30°) - 0° 48′ (0.80°) |                    |
|                                                                             |                                            | Minimum                     | 12° 00′ (12.00°)                  |                    |
| ٥.                                                                          | n inclination<br>e minute (Decimal degree) | Nominal                     | 12° 45′ (12.75°)                  |                    |
| Dogio                                                                       | o minute (Beelman degree)                  | Maximum                     | 13° 30′ (13.50°)                  |                    |
|                                                                             |                                            | Minimum                     | Out 0.4 mm (0.016 in)             |                    |
|                                                                             | Total toe-in Distance                      | Nominal                     | In 0.6 mm (0.024 in)              |                    |
| Toe-in  Toe angle (left wheel or right wheel Degree minute (Decimal degree) | Diotarios                                  | Maximum                     | In 1.6 mm (0.063 in)              |                    |
|                                                                             |                                            | Minimum                     | In 0° 02′ (0.04°)                 | In 0° 01′ (0.02°)  |
|                                                                             | ,                                          | Nominal                     | In 0° 04′ (0.07°)                 | In 0° 03′ (0.05°)  |
|                                                                             | bog.co //midio (boomial dogree)            | Maximum                     | In 0° 06′ (0.10°)                 | In 0° 05′ (0.08°)  |

Measure value under unladen\*2 conditions.

<sup>\*1:</sup> A difference when assuming the left side a standard.

<sup>\*2:</sup> Fuel, engine coolant and lubricant are full. Spare tire, jack, hand tools and mats are in designated positions.

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#### For 3.5SL and 3.5LE Grade

| Item                          |                                                                      | Star                        | ndard                             |                    |
|-------------------------------|----------------------------------------------------------------------|-----------------------------|-----------------------------------|--------------------|
|                               |                                                                      | Left side                   | Right side                        |                    |
|                               |                                                                      | Minimum                     | -1° 00′ (-1.00°)                  | -1° 15′ (-1.25°)   |
| Cambe                         | er                                                                   | Nominal                     | -0° 15′ (-0.25°)                  | -0° 30′ (-0.50°)   |
| Degree                        | e minute (Decimal degree)                                            | Maximum                     | 0° 30′ (0.50°)                    | 0° 15′ (0.25°)     |
|                               |                                                                      | Left and right difference*1 | -0° 18′ (-0.30°                   | ) - 0° 48′ (0.80°) |
|                               |                                                                      | Minimum                     | 3° 55′ (3.92°)                    | 4° 05′ (4.09°)     |
| Caster                        |                                                                      | Nominal                     | 4° 40′ (4.67°)                    | 4° 50′ (4.83°)     |
| Degree                        | e minute (Decimal degree)                                            | Maximum                     | 5° 25′ (5.41°)                    | 5° 35′ (5.58°)     |
|                               |                                                                      | Left and right difference*1 | -0° 18′ (-0.30°) - 0° 48′ (0.80°) |                    |
|                               |                                                                      | Minimum                     | 12° 00′ (12.00°)                  |                    |
| ٥.                            | n inclination<br>e minute (Decimal degree)                           | Nominal                     | 12° 45′ (12.75°)                  |                    |
| _ og. oc                      | a. (200a. a0g.00)                                                    | Maximum                     | 13° 30′ (13.50°)                  |                    |
|                               |                                                                      | Minimum                     | Out 0.4 mr                        | n (0.016 in)       |
| Total toe-in Distance  Toe-in |                                                                      | Nominal                     | In 0.6 mm                         | (0.024 in)         |
|                               | 2.55                                                                 | Maximum                     | In 1.6 mm                         | (0.063 in)         |
|                               |                                                                      | Minimum                     | In 0° 02′ (0.04°)                 | In 0° 01′ (0.02°)  |
|                               | Toe angle (left wheel or right wheel) Degree minute (Decimal degree) | Nominal                     | In 0° 04′ (0.07°)                 | In 0° 03′ (0.05°)  |
| Dogico minate (Decime         | 20g.00 milato (200miai augrou)                                       | Maximum                     | In 0° 06′ (0.10°)                 | In 0° 05′ (0.08°)  |

Measure value under unladen\*2 conditions.

# **REAR WHEEL ALIGNMENT**

ELS0003Y

#### FOR USA MODELS

| Item                                                                 |                       |                   | Standard             |
|----------------------------------------------------------------------|-----------------------|-------------------|----------------------|
| Camber Degree minute (Decimal degree)                                |                       | Minimum           | -1° 06′ (-1.10°)     |
|                                                                      |                       | Nominal           | -0° 36′ (-0.60°)     |
|                                                                      |                       | Maximum           | -0° 06′ (-0.10°)     |
|                                                                      | Total toe-in Distance | Minimum           | In 1.2 mm (0.047 in) |
|                                                                      |                       | Nominal           | In 2.8 mm (0.110 in) |
| Toe-in                                                               |                       | Maximum           | In 4.4 mm (0.173 in) |
| 106-111                                                              |                       | Minimum           | In 0° 03′ (0.05°)    |
| Toe angle (left wheel or right wheel) Degree minute (Decimal degree) | Nominal               | In 0° 07′ (0.12°) |                      |
|                                                                      | ((                    | Maximum           | In 0° 11′ (0.18°)    |

Measure value under unladen\* conditions.

<sup>\*1:</sup> A difference when assuming the left side a standard.

<sup>\*2:</sup> Fuel, engine coolant and lubricant are full. Spare tire, jack, hand tools and mats are in designated positions.

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

#### 

| Camber Degree minute (Decimal degree) |                                                                      | Minimum | -1° 05′ (-1.08°)     |                      |
|---------------------------------------|----------------------------------------------------------------------|---------|----------------------|----------------------|
|                                       |                                                                      | Nominal | -0° 35′ (-0.58°)     |                      |
| 3                                     | 2 og. 00ato (2 ooa. 00g. 00)                                         |         | -0° 05′ (-0.09°)     |                      |
|                                       | Total toe-in Distance                                                | Minimum | In 0.8 mm (0.031 in) | In 0.9 mm (0.035 in) |
|                                       |                                                                      | Nominal | In 2.4 mm (0.094 in) | In 2.5 mm (0.098 in) |
| Toe-in                                |                                                                      | Maximum | In 4.0 mm (0.157 in) | In 4.1 mm (0.161 in) |
| 106-111                               | Toe angle (left wheel or right wheel) Degree minute (Decimal degree) | Minimum | In 0° 02′ (0.04°)    |                      |
|                                       |                                                                      | Nominal | In 0° 06′ (0.10°)    |                      |
|                                       | ` ` ,                                                                |         |                      |                      |

Measure value under unladen\* conditions.

Maximum

#### **BRAKE PEDAL**

Unit: mm (in)

In 0° 10′ (0.16°)

| Item                                                                                        | Standard                    |
|---------------------------------------------------------------------------------------------|-----------------------------|
| Brake pedal height                                                                          | 195.6 – 205.6 (7.70 – 8.09) |
| Depressed brake pedal height [Depressing 490 N (50 kg, 110 lb) while turning the engine ON] | 105.0 (4.13) or more        |
| Clearance between stop lamp switch and brake switch threaded end and the stopper rubber     | 0.2 – 1.96 (0.008 – 0.0772) |
| Brake pedal play                                                                            | 3 – 11 (0.12 – 0.43)        |

# **BRAKE BOOSTER**

Vacuum type

Unit: mm (in)

| Item             | Standard                    |  |
|------------------|-----------------------------|--|
| Input rod length | 127.0 – 128.0 (5.00 – 5.04) |  |

#### FRONT DISC BRAKE

Unit: mm (in)

| Item       |                                          | Limit          |
|------------|------------------------------------------|----------------|
| Brake pad  | Wear thickness                           | 2.0 (0.079)    |
| Disc rotor | Wear thickness                           | 26.0 (1.024)   |
|            | Runout (with it attached to the vehicle) | 0.040 (0.0016) |

#### **REAR DISC BRAKE**

Unit: mm (in)

| Item                     |                                          | Limit          |
|--------------------------|------------------------------------------|----------------|
| Brake pad Wear thickness |                                          | 2.0 (0.079)    |
| Disc rotor               | Wear thickness                           | 14.0 (0.551)   |
| Disc Total               | Runout (with it attached to the vehicle) | 0.050 (0.0020) |

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

| UNIT                                                         |                           | Liter  | US measure |
|--------------------------------------------------------------|---------------------------|--------|------------|
| Fuel tank                                                    |                           | 75.6   | 20 gal     |
| Engine coolant capacity (With reservoir tank at "MAX" level) |                           | 11.3   | 12 qt      |
| Engine oil capacity                                          | Drain and refill          |        |            |
|                                                              | With oil filter change    | 4.6    | 4-7/8 qt   |
|                                                              | Without oil filter change | 4.3    | 4-1/2 qt   |
|                                                              | Dry engine (Overhaul)     | 5.3    | 5-5/8 qt   |
| Transmission                                                 | CVT                       | 10.2   | 10-6/8 qt  |
| Power steering system                                        |                           | 1.0    | 1-1/8 qt   |
| Air conditioning system                                      | Compressor oil            | 0.25   | 7.1 fl oz  |
|                                                              | Refrigerant               | 0.9 kg | 1.98 lb    |