

CONTINUITY TEST

Continuity testing is very important for inspecting circuit continuity.





CHECKING POLARITY OF DIODE

Diodes are used in the alternator and other circuits. Inspecting diodes is an important aspect of diagnosis.



Abnormal function is not indicated above.



5) USAGE OF SERVICE MANUAL

1. A QUICK REFERENCE INDEX

A black tab (e.g. BR) is provided on the first page. You can quickly find the first page of each section by mating it to the section's black tab.

Example:

| GENERAL INFORMATION | GI |
|--------------------------------------|----|
| MAINTENANCE | MA |
| ENGINE MECHANICAL | EM |
| ENGINE LUBRICATION & COOLING SYSTEMS | LC |

2. CONTENTS

The contents are listed on the first page of each section.

Example:

CONTENTS

| PRECAUTIONS | 2 |
|-------------------------------------|---|
| Precautions for EFI. or ECCS Engine | 3 |
| Precautions for Catalyst | 4 |
| Precautions for Fuel | 4 |
| HOW TO USE THIS MANUAL | 5 |
| HOW TO READ WIRING DIAGRAM | 7 |

3. TITLE

The title is indicated on the upper portion of each page and shows the part or system.

Example:



4. PAGE NUMBER

The page number of each section consists of two letters which designate the particular section and a number (e.g "BR-5")



5. LARGE ILLUSTRATIONS

The large illustrations are exploded views and contain tightening torques, lubrication points and other information necessary to perform repairs. The illustrations should be used in reference to service matters only. When ordering parts refer to the appropriate parts catalog.

Example:



6. SMALL ILLUSTRATIONS

The small illustrations show the important steps such as inspection, use of special tools, knacks of work and hidden or tricky steps which are not shown in the previous large illustrations. Assembly, inspection and adjustment procedures for the complicated units such as the automatic transaxle or transmission, etc. are presented in a step-by-step format where necessary.

Example:





7. SYMBOLS & ABBREVIATIONS

Refer to the Service Manual.

8. UNITS

The units given in this manual are primarily expressed in the SI-UNIT (International System of Unit), and alternatively expressed in the metric system and in the yard/pond system.

Example:



9. TROUBLE DIAGNOSES

Trouble diagnoses are included in sections dealing with complicated components.

10. S.D.S.

Service data and specifications are included at the end of each section for quick reference of data.

11. WARNING AND CAUTION

The captions warning and caution warn you of steps that must be followed to Prevent personal injury and/or damage to some part of the vehicle.

1) Warning indicates the possibility of personal injury if instructions are not followed.

2) Caution indicates the possibility of components damages if instructions are not followed.

3) Bold typed statements except warning/caution give you helpful information.



6) ELECTRONIC SERVICE MANUAL (ESM)

This consists of same contents as the book type Service Manual except for new information. An ESM provides you with full technical service information through electronic media.



| | Items | How to use / Details |
|---------------------------------|--------------------------|--|
| 1. | Setting up | 1) All programs need to be closed before setup. |
| | (When acro- | 2) Insert ESM CD. |
| bat Reader is not installed) | Dat Reader Is | 3) Click on "My Computer" icon. |
| | not motalica) | 4) Click on "CD-ROM" icon. |
| | | 5) Enter the folder titled <i>acroread</i> and click on the file titled <i>ar32e301.exe</i> . (Acrobat Reader will be installed.) |
| 2. | Before opening ESM | It is necessary to change your computer display settings; - Display area: 1024 X 768 (Control Panel > Display > Settings tab > Display area) |
| 3. | Viewing | Opening ESM |
| | | 1) Insert ESM CD. |
| | | 2) Click on <i>start.pdf</i> . (Start screen will be displayed.) |
| | | 3) Click on "START" button. (Quick Reference Index will be displayed.) |
| | | 4) Select a section from the Quick Reference Index. [You can go to the top of the section (Table of Contents).] |
| | | 5) Select the item you want from the Table of Contents. (The manual page will be displayed.) |
| | | <i>Screen Layout</i> Bookmark (Index): Left side |
| | | All items link to the appropriate page. |
| | | The contents will be displayed if you click on the " \oplus " icon. |
| | | Manual page: Right side |
| | | Manual pages are displayed and can be moved forward and backward using the icons on the tool bar at the top of your screen or the scroll bar on the right side of your screen. |
| 4. | Reference | 1) Click on the indication outlined in green. (You can move to refer- |
| | Pages | ence page.) |
| | (Hyper Links) | To return to previous view, use the "Previous View" icon on the tool bar. |
| 5. | Printing | 1) Select "Print". ("Menu Bar > File > Print") |
| | | 2) Select printing range: (Refer to the back page.) All pages: All pages in the section will be printed. Current page: The page you are viewing will be printed. Pages: A range of pages you type in will be printed CAUTION: If you do not select a printing range, all pages in the section will be printed. 2) Click on "OK" to print |
| | | |



| Items | How to use / Details |
|--------------------------------------|--|
| 6. Alphabetical Index | Not all items in the Alphabetical Index are linked to an appropri- ate page. |
| | To go to the item you want using the Alphabetical Index: |
| | Confirm the page number of the item in the Alphabetical Index. |
| | 2) Select the section from the Bookmark index. |
| | Go to the page using the "Menu Bar > View > Go To Page" sequence or the "Page Count" button at the bottom of your screen. |
| 7. Finding Dialogs (Key Words) | CAUTION: The "Find Dialog" function is only available in each section. If you do not know which section you should go to, you can try the "Find Dialog" function in the "Alphabetical Index". |
| | 1) Select the "Find Dialog" icon on the tool bar at the top of your screen. |
| | 2) Input the dialog (key word) such as the name of a component, the name of a system, a diagnostic code, etc. |
| | The dialog (key word) can be found by reviewing all pages in the section. |
| | Use the "Ctrl + G" operation on your keyboard for continuous retrieval. |
| 8. Zooming in | Select the "Zoom in" icon on the tool bar at the top of your screen. |
| | Drag the area you want to zoom in on, or just click at the point. |
| | If you press the "Ctrl" key, "Zoom <u>in</u>" icon switches to "Zoom <u>out</u>" icon. |
| | 4) To return to previous view, use the "Previous View" icon on the tool bar. |



7) HOW TO READ ABBREVIATIONS

1. Abbreviation for model code



2. Abbreviation for engine





3. Abbreviation for manual transmission



4. Abbreviation for automatic transmission

New code





5. Abbreviation for manual transmissions



P: Power steering None: Manual steering

6. Abbreviation for brake

Drum type



Disk type





HOW TO READ VIN

VIN (Vehicle Identification Number) indicates manufacturer, body type (Sedan, Hardtop, Station Wagon, and Cab), Engine type, 2WD or 4WD, Model code, destination, Chassis number.

VIN depends on kind of vehicle, so refer to GI (General Information) section in the Service Manual for more information.









JN1: Nissan, passenger vehicle



