

NISSAN

NISSAN NORTH AMERICA, INC.

Corporate Office
P.O. Box 685001
Franklin, TN 37068-5001
Telephone: 615.725.1000

Frank
10/11/07

October 8, 2007

Mr. Jeffery L. Quandt, Chief
Vehicle Control Division
Office of Defects Investigation
National Highway Traffic Safety Administration
1200 New Jersey Avenue SE.
Washington, D.C. 20590


Re: EA07-005; NVS-213aan

Dear Mr. Quandt:

Enclosed is the remainder of Nissan's response to the referenced NHTSA Information Request concerning the Agency's investigation of 2005 through 2007 model year Nissan 350Z wheels.

The attached reply responds by first stating each question, then the response. Please contact us if you have any questions.

Sincerely,



Frank D. Slaveter
Senior Manager
Technical Compliance

Enclosures

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P.O. Box 685001
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October 8, 2007

Otto Matheke, Esq.
Office of Chief Counsel
National Highway Traffic Safety Administration
NCC-111, W41-227
1200 New Jersey Avenue, S.E.
Washington, D.C. 20590

Re: Request for Confidential Treatment Pursuant to 49 CFR Part 512 for Certain Documents Provided in Response to NVS-213aan; EA07-005

Dear Mr. Matheke:

The Office of Defects Investigation ("ODI") has requested Nissan North America, Inc. ("Nissan") to provide certain information in connection with the matter referenced above, and Nissan is responding to this Information Request under separate cover. This submission includes an appendix of confidential attachments, which Nissan is submitting to the Office of Chief Counsel in accordance with NHTSA's regulations. Nissan is hereby requesting that the confidential attachments be permanently protected from public release pursuant to 49 C.F.R. Part 512.

This cover letter sets forth the justifications for Nissan's request for confidential treatment. Nissan has prepared a table that provides the justifications for the confidential material. The table is attached to this letter as an appendix. The table refers to the categorized justifications in the cover letter where appropriate and uses numerical codes which are set forth below.

The confidential documents and information fall within the following categories: confidential business information (category "1" in the accompanying table); test results, analyses and protocols (category "3" in the accompanying table); design information and performance factors and standards (category "4" in the accompanying table); and manufacturing processes and protocols (category "5" in the accompanying table). The legal justifications for each category of confidential documents are provided below. As you will note in the accompanying table, many documents qualify as confidential for more than one reason.

Nissan treats all of the information at issue in this letter confidentially. Nissan does not publish or disseminate this type of information, except for certain limited disclosure to Nissan's suppliers which are made subject to confidentiality agreements or other

understandings that the suppliers will maintain the information in strictest confidence. Moreover, Nissan limits access to the information to specific employees.

1. Confidential Business Information

The information in this category relates to Nissan's product, design, development, evaluation, testing, protocols for product development, and manufacturing and quality control processes. It also includes such information from suppliers. Confidential treatment for this information is warranted because its release would permit a competitor to duplicate Nissan's efforts with respect to product design, research, development, and manufacturing protocols and standards without incurring the substantial investment involved in reverse engineering or in developing their own protocols and standards. See *Worthington Compressors, Inc. v. Costle*, 662 F.2d 45, 52 (D.C. Cir. 1981) (in deciding whether to withhold information pursuant to Exemption 4, consideration should be given to "whether release of the requested information, given its commercial value to competitors and the cost of acquiring it through other means, will cause substantial competitive harm to the business that submitted it"); see also, e.g., *Public Citizen Health Research Group v. FDA*, 997 F. Supp. 56, 63 (D.D.C. 1998) (finding competitive harm based in part on the fact that disclosure would allow competitors "to follow in [the submitter's] footsteps, and thereby get a competitive product to the market sooner than otherwise"). Accordingly, because the release of the information in this category would result in "substantial harm to the competitive position" of Nissan, it is entitled to protection from public disclosure. *National Parks & Conservation Ass'n v. Morton*, 498 F.2d 765, 770 (D.C. Cir. 1974). See also, e.g., *Critical Mass Energy Project v. NCR*, 975 F.2d 871, 878 (D.C. Cir. 1992); *Occidental Petroleum v. SEC*, 873 F.2d 325, 341 (D.C. Cir. 1989) (information relating to product development is "valuable intellectual property" entitled to protection from public disclosure under Exemption 4).

2. Evaluation and Remediation Protocols

Some of the submitted material contains highly sensitive information that may reveal Nissan's protocols and processes for identifying, evaluating, and remedying potential problems in its products. It also includes such information from suppliers. Disclosing such information would allow Nissan's competitors to duplicate Nissan's design, research, and remediation protocols without incurring the substantial expense associated with developing their own protocols. This information, therefore, is commercially valuable, and its release would cause Nissan substantial competitive harm. See *Worthington Compressors, Inc. v. Costle*, 662 F.2d 45, 52 (D.C. Cir. 1981) (in determining whether information should be withheld pursuant to Exemption 4, consideration should be given to "whether release of the requested information, given its commercial value to competitors, and the cost of acquiring it through other means, will cause substantial competitive harm to the business that submitted it"); *Public Citizen Health Research Grp. v. FDA*, 997 F. Supp. 56, 63 (D.D.C. 1998) (finding competitive harm based on the fact that disclosure would allow competitors "to follow in [the submitters'] footsteps, and thereby get a competitive product to the market sooner than otherwise"), *aff'd in part & rev'd in part*, 185 F.3d 898 (D.C. Cir. 1999). "Valuable intellectual property," such as this information, is protected from disclosure under Exemption 4 of the Freedom of Information Act, 5 U.S.C. § 552(b)(4). *Occidental Petroleum Corp. v. SEC*, 873 F.2d 325, 341 (D.C. Cir. 1989).

2.1 Test Results, Analyses, and Protocols

The information for which confidential treatment is sought includes highly sensitive information about Nissan's test results, protocols, and analyses of its products. It also includes such information from suppliers. Releasing these materials would give a competitor the fruits of Nissan's tests and test developmental strategies without having to incur the substantial costs associated with the development of their own analyses and test results, thereby enabling them to bring competitive products to market sooner and to improve their own development procedures at the expense of Nissan. Disclosure of this information would "eliminate much of the time and effort that would otherwise be required to bring to market a product competitive with [Nissan's products]. This is clearly the type of competitive harm envisioned in Exemption 4 * * * ." *Public Citizen Research Grp. v. FDA*, 185 F.3d 898, 905 (D.C. Cir. 1999) ("*Public Citizen II*").

2.2 Design Information and Performance Factors and Standards

Some of the documents reveal competitively sensitive and highly valuable design and performance factor information of Nissan and its suppliers. A number of the documents set forth key design elements for the subject vehicles, and others reveal the performance factors that Nissan considers significant in developing and marketing products. Like the other information in this submission, the design and standards information reflected in these documents is the product of Nissan's years of experience in the industry and reflects substantial investments of time and money in its development. Thus, disclosure of the information would be a windfall to Nissan competitors (especially to new market entrants), as well as to would-be suppliers, because it would enable them to incorporate design elements and to discover the performance standards that Nissan considers significant without incurring the substantial time and expense necessary to develop their own designs and standards. As a result, Nissan would suffer substantial competitive harm. See, e.g., *Worthington Compressors*, 662 F.2d at 51 ("Because competition in business turns on the relative costs and opportunities faced by members of the same industry, there is a potential windfall for competitors to whom valuable information is released under FOIA. If those competitors are charged only minimal FOIA retrieval costs for the information, rather than the considerable costs of private reproduction, they may be getting quite a bargain. Such bargains could easily have competitive consequences not contemplated as part of FOIA's principal aim of promoting openness in government.") (footnote omitted); *Public Citizen II*, 185 F.3d at 905. In addition, some of the documents are entitled to protection pursuant to NHTSA's class determination contained in Appendix B to Part 512. See 49 C.F.R. Part 512, Appendix B, (1).

* * * *

Nissan requests that the information discussed above be granted confidential treatment on a permanent basis. Disclosure of the information would cause Nissan and its suppliers substantial competitive harm, and there is no foreseeable time in the future when such disclosure would not inure to the competitive advantage of Nissan's competitors and cause Nissan substantial competitive harm.

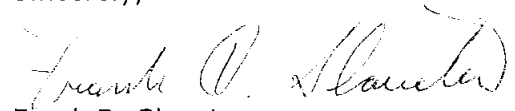
If you need any clarifications or additional information, please contact me. If you receive a request for disclosure of these documents before you have completed your review of our claim for confidential treatment, Nissan respectfully requests notification of the

Mr. O. Matheke
October 8, 2007
Page 4

request and an opportunity to provide further justification for the confidential treatment of this information, if warranted.

Should you or your staff have any questions or concerns regarding this request, please contact me at (615) 725-5465. Thank you for your consideration in this matter.

Sincerely,

A handwritten signature in cursive script, appearing to read "Frank D. Slaveter".

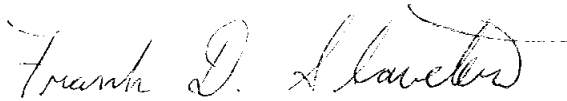
Frank D. Slaveter
Senior Manager, Technical Compliance
Nissan North America, Inc.

Enclosures

CERTIFICATE IN SUPPORT OF REQUEST FOR CONFIDENTIALITY

I, Frank D. Slaveter, pursuant to the provision of 49 CFR 512, state as follows:

- (1) I am Frank D. Slaveter, Senior Manager, Technical Compliance and I am authorized by Nissan North America, Inc. (NNA) to execute this document.
- (2) I certify that the information contained in the attached documents is confidential and proprietary and is being submitted with the claim that it is entitled to confidential treatment under 5 U.S.C. Section 522(b)(4) (as incorporated by reference in and modified by the statute under which the information is being submitted.)
- (3) I hereby request that the information contained in Nissan's response be protected on a permanent basis.
- (4) This certification is based on the information provided by the responsible Nissan personnel who have authority in the normal course of business to release the information for which a claim of confidentiality has been made to ascertain whether such information has ever been released outside Nissan.
- (5) Based upon that information, to the best of my knowledge, information and belief, the information for which Nissan has claimed confidential treatment has never been released or become available outside Nissan or its suppliers.
- (6) I make no representations beyond those contained in this certificate and, in particular, I make no representations as to whether this information may become available outside Nissan because of unauthorized or inadvertent disclosure; and
- (7) I certify under penalty of perjury that the foregoing is true and correct. Executed on this 8th day of October 2007.



Frank D. Slaveter
Senior Manager, Technical Compliance
Nissan North America, Inc.

Nissan Request For Confidential Tre

Confidential Item Number	Confidential Attachment	Page Number	Title
1	F	F2-F16	Drawing issue of cast 17 and 18 inch wheels for Hayes Lemmerz for S-lot
2	F	F18-F19	To change rear rim width for 18 inch forged wheels
3	F	F21-F32	Drawing issue of cast 17 and 18 inch wheels for Hayes Lemmerz for S-lot
4	F	F34,F36-F37	Drawing issue of forged 18 inch wheels for RAYS
5	F	F39-F69	Drawing issue of cast 17 and 18 inch wheels for Hayes Lemmerz made in Thailand
6	F	F71-F123	Drawing issue of forged 18 inch wheels for RAYS
7	F	F125-F176	Drawing issue of cast 18 inch wheels for Hayes Lemmerz
8	F	F128,F130-F151,F152-F174	Drawing issue of forged 18 inch wheels for RAYS
9	F	F176-F179,F182-F208	To change pretreatment of paint to 6 chrom free for forged wheels made by RAYS
10	G1	G2-G3	Spec tender of new forged 18 inch wheels to RAYS
11	G1	G5-G9,G11-G18,G20-G26	To add appearance specification for wheels made by Hayes Lemmerz
12	G1	G28-G30,G32-G44	Spec tender of new cast 18 inch wheels to UBE
13	G1	G46-G50	Spec tender of new cast 18 and 19 inch wheels to RAYS
14	G1	G52-G53	440(06MY) formal design note issued
15	G1	G55-G58	Drawing issue of new cast 18 inch wheel for UBE Automotive
16	G1	G60	Drawing issue of new cast 18 inch wheel for UBE Automotive
17	G2	CD	Confidential Attachment G2
18	H	CD	Confidential Attachment H
19			
20			
21			
22			
23			
24			

Response to

EA07-005

INTRODUCTION

In accordance with conversations with the agency's Jeffery Quandt, the responses to questions 12, 14, 16 and 17 of this Information Request ("IR") have been limited in scope to include only the Japanese home market Fairlady Z (350Z). This document completes the partial response to EA07-005 submitted earlier.

In responding to this Information Request ("IR"), information has been obtained from those places within Nissan likely to contain such information in the regular and ordinary course of business. When a particular Request seeks "documents" as defined in the IR, reasonable, good faith searches have also been made of corporate records in those places likely to maintain them in the regular and ordinary course of business.

The definitions of "documents" and "Nissan", however, are unreasonably broad, vague and ambiguous in the context of the information sought by this IR. For example, "calendars", "appointment books", "financial statements" and "personnel records" would not contain owner complaints, field reports or other information sought by Request 2 pertaining to the alleged defect. Therefore, searches were not made for such "documents", inasmuch as they would not likely contain responsive information. In addition, Nissan has not provided information from persons or entities over which it does not ordinarily exercise control. Nissan understands this IR to seek information on vehicles manufactured for sale in the United States.

Responses are provided after each request, and Attachments are utilized as appropriate. The source of information used as a basis for the data in each Attachment, including the date the data were updated and retrieved, is identified at the beginning of each Attachment, as applicable. If a document itself is the source for the requested information and it is provided, we assume no further source identification is called for. If a document, drawing or component is requested, or if no responsive information is available, we assume no further source identification is called for.

With regard to claims of privilege, Nissan understands that it is acceptable to the Agency for Nissan to identify specific categories of

privileged documents rather than any specific document. These specific categories are: 1) communications between outside counsel and Nissan Legal Department employees, other Nissan employees, or other Nissan-represented parties in litigation and claims; 2) communications between Nissan Legal Department employees and other Nissan employees or other Nissan-represented parties in litigation or claims; 3) notes and other work product of outside counsel or of Nissan Legal Department employees concerning communications with Nissan employees or consultants, and the work product of those employees or consultants done for or at the request of outside counsel or Legal Department employees; and 4) other categories to be identified later as necessary. For any privileged documents that are not included in these categories, such documents, if any, will be specifically identified on a separate privilege index at a later time. To the extent that a document is furnished, Nissan is not asserting a privilege claim for that document, although the disclosure of such document does not waive the attorney-client privilege or work-product protection with respect to other documents prepared in connection with the specific litigation or claim or other litigation or claims. In addition, in submitting such documents, we reserve our right to claim the attorney-client privilege and/or work-product protection with respect to analyses that may be prepared subsequently in connection with these and other cases. Also, we understand documents specifically related to the preparation of the responses are not sought.

Nissan believes NHTSA's policy is to protect the privacy of individuals under exemption 6 of the Freedom of Information Act, 5 U.S.C. Section 552(b)(6). We understand that name, address, and other personal information of owners or other individuals, including Nissan personnel, contained in any of the attachments in this response will not be made available to the public. Therefore, Nissan is not requesting confidential treatment for this information pursuant to 49 CFR, Part 512, but we believe any private information concerning individuals should not be made public.

* * * * *

6. Describe in detail the search criteria used by Nissan to identify the claims identified in response to Request No. 5, including the labor operations, problem codes, part numbers and any other pertinent parameters used. Provide a list of all labor operations, labor operation descriptions, problem codes, and problem code descriptions applicable to the alleged defect in the subject vehicles. State, by make and model year, the terms of the new vehicle warranty coverage offered by Nissan on the subject vehicles (i.e., the number of months and mileage for which coverage is provided and the vehicle systems that are covered). Describe any extended warranty coverage option(s) that Nissan offered for the subject vehicles and state by option, model, and model year, the number of vehicles that are covered under each such extended warranty.

The search criteria used by Nissan to identify the claims identified in response to Request No. 5 were previously submitted in Attachment B.

Copies of the applicable warranties for the subject vehicles are contained in Attachment C. There are no extended warranties applicable to the subject vehicles as we understand this request. Nissan offers "Security Plus" service contract plans on Nissan vehicles and are available for separate purchase by customers. Information about Nissan's Security Plus programs is contained in Attachment D.

There are 9,646 MY2005, 11,071 MY2006 and 4,068 MY2007 350Z vehicles covered by Security Plus contracts.

8. Describe all assessments, analyses, tests, test results, studies, surveys, simulations, investigations, inquiries and/or evaluations (collectively, "actions") that relate to, or may relate to, the alleged defect in the subject vehicles that have been conducted, are being

conducted, are planned, or are being planned by, or for, Nissan. For each such action, provide the following information:

- a. Action title or identifier;
- b. The actual or planned start date;
- c. The actual or expected end date;
- d. Brief summary of the subject and objective of the action;
- e. Engineering group(s)/supplier(s) responsible for designing and for conducting
the action; and
- f. A brief summary of the findings and/or conclusions resulting from the action.

For each action identified, provide copies of all documents related to the action, regardless of whether the documents are in interim, draft, or final form. Organize the documents chronologically by action.

“Actions” that relate to, or may relate to, the alleged defect in the subject vehicles are provided in the field report response to requests numbers 3 and 4 of this IR.

9. Describe all modifications or changes made by, or on behalf of, Nissan in the design, material composition, manufacture, quality control, supply, or installation of the subject equipment, from the start of production to date, which relate to, or may relate to, the alleged defect in the subject vehicles. For each such modification or change, provide the following information:

- a. The date or approximate date on which the modification or change was
incorporated into vehicle production;
- b. A detailed description of the modification or change;
- c. The reason(s) for the modification or change;
- d. The part number(s) (service and engineering) of the original equipment;
- e. The part number(s) (service and engineering) of the modified equipment;
- f. Whether the original unmodified equipment was withdrawn from production
and/or sale, and if so, when;
- g. When the modified equipment was made available as a service equipment; and

h. Whether the modified equipment can be interchanged with earlier production equipment.

Also, provide the above information for any modification or change that Nissan is aware of which may be incorporated into vehicle production within the next 120 days.

The following change was made to the subject wheels:

Date	Description	Reason	Prev Equip Withdrawn	Available Spring	Interchangeable
12/27/2006	Change pretreatment paint	Environmental	No	2007	Yes

Details of this change are provided in the response to request number 11. No applicable changes are anticipated in production vehicle wheels within the next 120 days.

10. Describe and provide copies of all material pertaining to the design and development of the subject equipment, including all engineering standards and specifications and all design verification and validation test data.

Copies of design and development information for the subject wheels, including engineering standards, specifications, and available test data, is contained in Confidential Attachment F.

A number of the documents are in Japanese. We have provided English summary sheets for each group of documents but have not been able to translate all the documents due to time constraints. We will contact ODI to discuss this further.

11. Furnish copies of all communications between Nissan and each supplier of the subject equipment for the subject vehicles that pertain to the design, manufacture, performance, material specifications, durability, quality, testing, or modification of the subject equipment in the subject vehicles. This includes, but is not limited to, discussions regarding Nissan's engineering specifications and requirements, the

specifications used by the supplier(s) in producing the subject equipment, and the manufacturing and quality control processes followed by the supplier(s) as to the subject equipment. If any communications on this subject were oral or were conducted electronically, provide a written transcript or summary of each such communication if one is available, and include a statement that identifies the participants and the date of communication.

The principal communication between Nissan and suppliers are design and development information for the subject wheels, including engineering standards, specifications, and available test data, (see response to Question No. 10 above). Other communications with suppliers that pertain to the design, manufacture, performance, material specifications, durability, quality, test, or modification of the subject equipment in the subject vehicles are provided in Confidential Attachment G1 and on a Confidential CD labeled as folder Confidential G2. Drawings are provided as Confidential Attachment H.

20. Furnish Nissan's assessment of the alleged defect in the subject vehicle, including:

- a. The causal or contributory factor(s);
- b. The failure mechanism(s);
- c. The failure mode(s);
- d. The risk to motor vehicle safety that it poses;
- e. The safety risk (i.e., risk of wheel separation) associated with a single cracked spoke, including a description of the basis for Nissan's assessment;
- f. A description of the changes in strength, modulus and other relevant material properties when a subject wheel is subjected to aftermarket re-chroming and Nissan's assessment of the effects of these changes on the structural integrity of the wheel;
- g. What warnings, if any, the operator and the other persons both inside and outside the vehicle would have that the alleged defect was occurring or subject equipment was malfunctioning; and
- h. The reports included with this inquiry.

Nissan knows of no defect in design, manufacture, or performance of the original equipment road wheels in the subject vehicles that has caused or contributed to structural failures of the wheels. There have been reports of wheel cracking or wheel separation on the subject vehicles. Based on an inspection of wheels that have been made available to Nissan, damage to those wheels have been due to unauthorized wheel modification (application of an aftermarket chroming process) or the result of impact damage. Insufficient information is available about other reports from which to make an assessment about those reports.

Concerning unauthorized chroming after an OEM wheel has left the control of Nissan, we do not have specific information on the process used on any of the wheels that Nissan has been able to inspect. However, the process of chroming of a wheel that has already been manufactured with a final finish can affect the metallurgical structure of the wheel. The chroming process requires a high level of engineering and metallurgical expertise, as well as strict production quality controls. If the heating to remove the original factory finish is a hand process, is done too quickly, or is not well controlled, non-uniform heating can be expected. This will introduce large local strains and leave correspondingly high residual stresses in the wheel surface. High residual stresses can be generated by the stripping process and may lead to the introduction of incipient cracks. Such cracking, even if not visible to the naked eye, can eventually lead to structural failure. In addition, high residual stresses will reduce fatigue strength even if incipient cracks are not introduced. The separated wheels from the subject vehicles that Nissan has been able to inspect have been modified through some type of chroming process, leading Nissan to conclude that such unauthorized wheel modification is the cause.

Concerns about unauthorized modifications to any Nissan OEM wheel have been the subject of communications with dealers going back many years due to the potential negative affect of the modifications to a wheel. As noted in this and previous responses, Nissan has issued bulletins to dealers indicating that it does not approve of and cautions against aftermarket chroming of Nissan alloy wheels. A bulletin was re-issued recently when Nissan became aware of the circumstances surrounding this investigation. Nissan does not now, nor has it ever, authorized such a modification to original equipment wheels.

Nissan has not specifically analyzed whether a single cracked spoke in a wheel on the subject vehicles may present an unreasonable safety risk or whether warnings occur. However, while wheel cracking, including cracking of a single wheel spoke, generally can be said to be undesirable, a single wheel spoke crack in a non-chromed wheel may not significantly diminish wheel function under most driving circumstances. The information which has been received in which single spoke cracking is noted does not report any driving difficulty. Also, cracking is readily noticeable from a cursory visual inspection.

ATTACHMENT C
Vehicle Warranties

WARRANTY COVERAGE AT A GLANCE

1

Summary of Warranty Coverage*

	0 miles	90,000 miles
Basic Coverage	36 months / 36,000 miles	
Corrosion Coverage (Perforation)	60 months / UNLIMITED MILEAGE	
Powertrain Coverage	60 months / 60,000 miles	
Federal Emission Performance	24 months / 24,000 miles	
Federal Emission Defect	36 months / 36,000 miles	
Federal Emission Long Term Defect	96 months / 80,000 miles	
California Emission Performance	36 months / 50,000 miles**	
California Emission Defect	36 months / 50,000 miles**	
California Emission Long Term Defect	84 months / 70,000 miles **	
Seat Belt	120 months/unlimited mileage	

* See the express terms of the appropriate warranty printed in this booklet, which terms control if there is a conflict with this chart.

** California Emission Altima with 2.5 engine **ONLY**: Warranty coverage is 15 years/150,000 miles, whichever occurs first.

WHO IS THE WARRANTOR

Nissan warrants all parts of your 2006 Nissan vehicle supplied by Nissan, except for those listed elsewhere under the caption "WHAT IS NOT COVERED."

APPLICABILITY

- This warranty is provided to the original and subsequent owner(s) of a Nissan vehicle originally distributed by Nissan which is originally sold by a Nissan authorized Nissan dealership in the United States, and which is registered in the U.S. and normally operated in the United States (including Alaska and Hawaii), the United States territories (specifically Guam, Saipan, American Samoa, Puerto Rico and the U.S. Virgin Islands), and Canada.
- This warranty is generally transferable from the original 'owner other than a Nissan dealer' (OWNER) to subsequent owners of the vehicle at any time ownership of the vehicle is transferred, without any action on your part; except that this warranty is not transferable but is instead void if during the first six months after delivery to the original OWNER: (1) ownership of the vehicle is transferred from the original OWNER, and (2) the vehicle is registered outside of the United States.
- Your Nissan vehicle is manufactured to meet U.S. regulations and environmental requirements. With the exception of privately owned vehicles belonging to members of the U.S. military or employees and officers of the United States Government stationed abroad, this warranty does not apply if an otherwise covered vehicle is operated in, or relocated to, a country other than those listed above under this caption, except that it continues to apply if the vehicle is operated in full compliance with its proper use as described in the applicable OWNER'S MANUAL² while touring outside of the United States, the U.S. territories or Canada for a period not exceeding sixty (60) consecutive days or sixty (60) days in any one 12 month period. Subject to the

transferability restriction described above, this warranty applies to a relocated vehicle which is returned to, and is registered and normally operated in the United States, the U.S. territories or Canada, except for conditions due to the vehicle's foreign operation, e.g., use of inappropriate fuels or other fluids.

LIMITATION OF WARRANTIES AND OTHER WARRANTY TERMS AND STATE LAW RIGHTS

EXTRA EXPENSES - LIMITATIONS OF DAMAGES
This warranty does not cover incidental or consequential damages such as loss of the use of the vehicle, inconvenience or commercial loss.

ANY IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE SHALL BE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY.

Some states do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Nissan does not authorize any person to create for it any other warranty, obligation or liability in connection with this vehicle.

Nissan makes available to you, and you are specifically required by Federal Law to use BBB AUTO LINE [(800) 951-5100] before exercising rights or seeking remedies under the Federal Magnuson-Moss Warranty Act, 15 U.S.C. §2301, et. seq. You are not required to first use BBB AUTO LINE if you seek remedies not created by Title I of that Federal law, but are required to first use BBB AUTO LINE if you seek remedies created by state law, including your state's lemon law, if applicable state law provides for using a 703 compliant or similar process before filing suit. Please refer to pp. 2-3 of this booklet and the "Supplement to 2006 Nissan Warranty Information Booklet & 2006 Nissan Owner's Manual" for additional information.

THE WARRANTY BEGINS

The warranty period begins on the date the vehicle is delivered to the first retail buyer or put into use, whichever is earlier.

FOR HOW LONG AND WHAT IS COVERED**■ BASIC COVERAGE**

- The basic coverage period is 36 months or 36,000 miles, whichever comes first.
- This warranty covers any repairs needed to correct defects in materials or workmanship of all parts and components of each new Nissan vehicle supplied by Nissan except for the exclusions or items listed under the caption "WHAT IS NOT COVERED" or as indicated below.
- Bedliners will be repaired to commercially acceptable standards subject to the conditions and limitations listed in "WHAT IS NOT COVERED."

■ POWERTRAIN COVERAGE

- The Powertrain coverage period is 60 months or 60,000 miles, whichever comes first.
- This warranty covers any repairs needed to correct defects in materials or workmanship.
- Powertrain coverage applies to components listed below, supplied by Nissan except for those items listed under the caption "WHAT IS NOT COVERED".

ENGINE

Cylinder heads and block and all internal parts, rocker covers and oil pan, valve train and front cover, timing chain and tensioner, oil pump, water pump and fuel pump, fuel injectors, intake and exhaust manifolds and supercharger, flywheel, seals, and gaskets.

TRANSMISSION AND TRANSAXLE

Case and all internal parts, torque converter and converter housing, automatic transmission control module, transfer case and all internal parts, seals and gaskets, clutch cover and housing, and electronic transmission controls.

¹ Nissan indicates Nissan North America, Inc., P.O. Box 191, Gardena, California, 90248-0191 which distributes Nissan vehicles in the United States.
² See the Owner's Manual for information relevant to proper operation of the vehicle, including the recommended fuels and fluids.

DRIVETRAIN

Drive shafts, final drive housing and all internal parts, propeller shafts, universal joints, bearings, seals and gas-kets.

RESTRAINT SYSTEM

Air bags and related electronic control systems.

■ **CORROSION COVERAGE (PERFORATION FROM CORROSION)**

Any body sheet metal panel supplied by Nissan found to have developed perforation (rust-through) due to corrosion in normal use is covered for 60 months, regardless of mileage, except for those items listed under "WHAT IS NOT COVERED". No additional rust proofing applications are required. Perforation is a condition in which any body sheet metal panel has corroded from one surface through to another.

■ **ORIGINAL EQUIPMENT BATTERY COVERAGE**

The coverage period is 36 months or 36,000 miles, whichever comes first. A defective original equipment battery which is unserviceable within the first 12 months and 36,000 miles will be replaced free of charge. After 12 months but within 24 months and 36,000 miles, you will pay 50% of the replacement battery's suggested retail price plus any applicable taxes. After 24 months but within 36 months and 36,000 miles, you will pay 75% of the replacement battery's suggested retail price plus any applicable taxes. Nissan will pay the rest, including all labor to remove and replace the defective battery.

■ **TOWING COVERAGE**

If your vehicle is inoperative due to the failure of a warranted part, towing service to the nearest authorized Nissan dealer is covered for 36 months or 36,000 miles, whichever comes first.

■ **ADJUSTMENTS**

Service adjustments not usually associated with the

replacement of parts, such as wheel alignment, are covered only during the first 12 months or 12,000 miles, whichever comes first.

■ **REFRIGERANT RECHARGE ONLY**

Refrigerant recharge not associated with the repair or replacement of a warranted part is covered only during the first 12 months, regardless of the mileage.

NO CHARGE

Warranty repairs will be made at no charge for parts and/or labor (except for batteries and tires, in which case you may pay certain charges as noted above or as described in the applicable tire warranty found later in this booklet). **Any needed parts replacement will be made using genuine Nissan or Nissan approved new or remanufactured parts.**

OBTAINING WARRANTY SERVICE

■ You must take the vehicle to an authorized Nissan dealer in the United States or Canada during regular business hours at your expense in order to obtain warranty service. The names and addresses of authorized Nissan dealers are listed in telephone directories.

■ If you require warranty service outside of the United States (see terms under caption "APPLICABILITY"), contact an authorized Nissan dealer in that country. Note that complaints related to failure to comply with proper use of the vehicle as described in the applicable OWNER'S MANUAL (including the lack of availability or use of proper fuel and fluids), or the vehicle's lack of compliance with local regulations or environmental requirements of any country (other

than the U.S., the listed U.S. territories or Canada) are not covered by this warranty.

MAINTENANCE AND RECORDS

As a condition of this warranty, you are responsible for properly using, maintaining and caring for your vehicle as outlined in your OWNER'S MANUAL and your NISSAN SERVICE & MAINTENANCE GUIDE, and maintaining copies of all maintenance records & receipts for review by Nissan. Failure to do so is likely to result in the denial of warranty coverage.

Evidence of the performance of the required maintenance should be kept and presented as proof of such maintenance in connection with related warranty repairs. To assist you in maintaining appropriate records, the maintenance log located in your NISSAN SERVICE & MAINTENANCE GUIDE can be used along with supporting repair invoices, receipts and other such records.

(Continued on page 6)

(See following page for
"WHAT IS NOT COVERED.")

WHAT IS NOT COVERED**DAMAGE, FAILURES OR CORROSION DUE TO ACCIDENTS, MISUSE OR ALTERATIONS**

This warranty does not cover damage, failures or corrosion resulting from:

- Accident, theft, fire, driving through water (including engine water ingestion) or misuse (Proper use is outlined in your OWNER'S MANUAL).
- Alteration, tampering or improper repair.
- Installation of non-Nissan approved accessories or components.
- Improper installation of any Nissan approved or aftermarket accessory or component.
- Glass breakage, unless resulting from defects in material or workmanship.
- Normal wear and tear, including dings, dents, chips or scratches.

ALTERED OR UNCERTAIN ODOMETER MILEAGE

This warranty does not cover repair of any vehicle or any part of a vehicle of which the odometer mileage has been altered, or the odometer repaired or replaced and the actual vehicle mileage cannot be correctly and readily determined.

SALVAGE TITLE

This limited warranty does not apply to any vehicle, and is rendered void if the vehicle is (or ever has been) issued a "salvage" or similar title under any state's law; or has ever been determined to be a "total loss" or equivalent by any insurance company, such as by payment of a cash payment of claim in lieu of repairs because of a determination that the cost of repairs exceeded the actual cash value of the vehicle.

DAMAGE, FAILURES OR CORROSION FROM ENVIRONMENTAL CONDITIONS

This warranty does not cover damage, failures or corrosion resulting from:

- Stone chipping, chemical fallout (acid rain), tree sap, salt, hail, wind-storm, lightning, flood or other environmental conditions.
- The items listed below are not covered under corrosion

coverage (perforation from corrosion).

- Exhaust system components.
- Corrosion of outer trim parts, such as moldings. However, corrosion of outer trim parts is warranted for 12 months or 12,500 miles, whichever comes first.
- Corrosion other than perforation, such as cosmetic or surface corrosion due to defects in materials or workmanship. This is covered under the Basic Coverage of the New Vehicle Limited Warranty.
- Special bodies or equipment not manufactured or supplied by Nissan.

DAMAGE, FAILURES OR CORROSION DUE TO LACK OF OR IMPROPER MAINTENANCE

This warranty does not cover damage, failures or corrosion resulting from:

- Lack of performance of proper maintenance services as outlined in your NISSAN SERVICE & MAINTENANCE GUIDE.
- Use of improper or dirty fuel, fluids or lubricants.
- Use of parts not equivalent in quality or design to parts supplied by Nissan.

MAINTENANCE SERVICE EXPENSE

This warranty does not cover normal maintenance services as specified in your NISSAN SERVICE & MAINTENANCE GUIDE such as engine tune-up; cleaning and polishing; wheel alignment; headlight aiming; replacement of filters; replacement of windshield wiper inserts, lubricants, coolant; worn brake shoes, pads, drums and rotors and worn clutch discs.

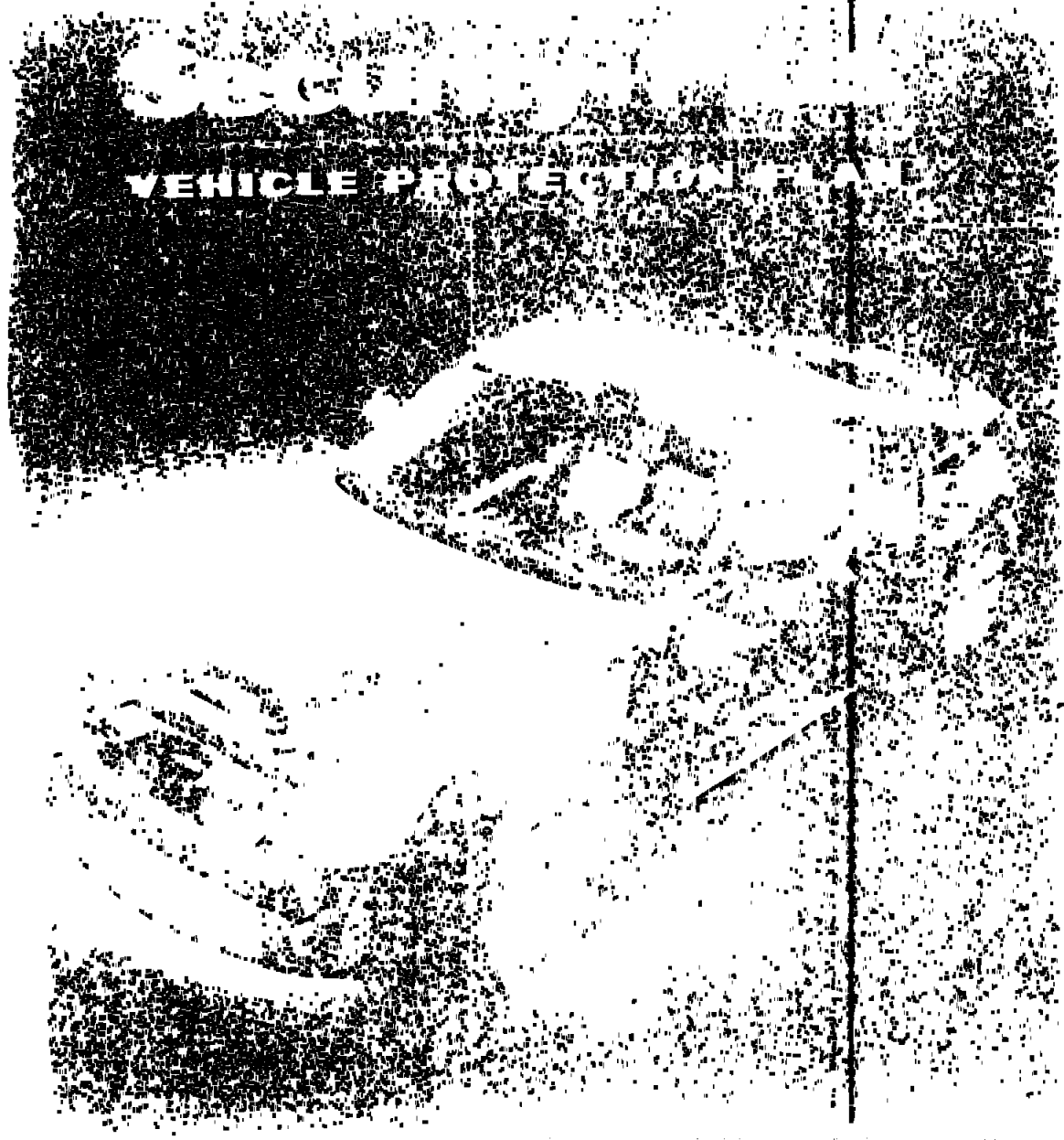
SEAT BELTS, TIRES, AND EMISSION CONTROL SYSTEM

Seat belts, tires, and the emission control system are not covered by this warranty, but are covered by separate warranties.

(See following pages for separate warranties which may apply to your Nissan, such as those covering vehicle emissions, seat belts, and tires.)

ATTACHMENT D
Security Plus service contracts

VEHICLE PROTECTION PLAN



Component Coverage Guide





NISSAN SECURITY+PLUS

THE BEST PROTECTION FOR YOUR NISSAN

Nissan's Security+Plus Vehicle Protection Plan provides you with quality long-term mechanical protection and extra peace of mind.

It covers the most important components of your Nissan vehicle: Engine, Transmission, Steering, Drive Axle Assembly, Electrical, and many more. Repairs to these parts can run as high as \$4,000 or more. But with Security+Plus, if a covered part fails, Nissan pays...not you.

This guide lists the covered components for the Gold Plan, by major category, in Nissan part number code (PNC) numeric sequence. For complete information regarding other coverage features, and those excluded from coverage, contact your Nissan Dealer.

Unlike other service agreements, Security+Plus is exclusively for Nissan owners, and backed by Nissan North America, Inc.*

NISSAN SECURITY+PLUS: THE SMART CHOICE™

Nissan's Security+Plus Vehicle Protection Plan is designed for new and previously-owned Nissan vehicles—by Nissan—and offers Nissan owners:

Cost-effective coverage up to 7 years, or 100,000 miles, to protect your investment. Guards against loss from the escalating cost of major repairs (including parts and labor).

Nationwide Nissan repair at Authorized Nissan dealerships by Nissan-trained technicians. No payment hassles because the dealer is paid directly by Nissan.

Customer Assistance available throughout the United States. Just contact your nearest Nissan dealer, or call us at 1-800-NISSAN-1.

Optional terms of coverage (years and miles) to fit your driving needs, and an optional zero or \$50 deductible for each eligible component repair.

Transfer Security+Plus to a new owner if you sell your Nissan before coverage expires.**

Convenient and economical coverage, costing only pennies a day. Your Nissan dealer will be happy to explain the various financing options available to you.

The cost of **Genuine Nissan replacement parts** is included for covered repairs—not inferior substitutes.

* In Florida, Security+Plus is backed by Nissan Extended Service Corporation, Inc., P.O. Box 191, Gardena, California 90248-0191. License #60062.

** A nominal transfer fee may apply. For details, please refer to the Security+Plus Service Agreement or contact your local Nissan dealer.



ENGINE	2
ENGINE & INTERNAL PARTS	2
LUBRICATION & COOLING	2
FUEL SYSTEM	2
MANIFOLDS & TURBOCHARGER	3
ENGINE ELECTRICAL	3
FUEL INJECTION	3
EMISSION CONTROLS	3
POWER TRAIN	3
PROPELLER SHAFT & DIFFERENTIAL	3
CLUTCH, TRANSMISSION, TRANSAXLE & TRANSFER CASE	3
STEERING & SUSPENSION DRIVES	5
STEERING SYSTEM	5
WHEEL ASSEMBLIES	5
FRAMES	5
ELECTRICAL	6
BATTERY SYSTEMS	6
HEADLIGHTS & CONDITIONING	7
BODY & INTERIOR COMPONENTS	7
SEATBELT	7
STEERING	8
WHEELS & TIRE	8
WINDSHIELD WIPER	8
WATER & CONDENSIBLE TOWERS	8

ENGINE/POWER TRAIN

COMPONENT	P.N.
FLOOR INSULATOR	19461
ALTERNATOR BRACKET	11710
ALTERNATOR ADJUSTING BOLT	11715
THERMO ELEMENT KIT	16361
TRANSISTOR IGNITION UNIT	22020
TRANSISTOR (TRIG) UNIT	22022
DISTRIBUTOR	22100
SHAFT	22105
RELUCTOR	22115
GVERNOR WEIGHT	22127
DISTRIBUTOR PINION	22129
DISTRIBUTOR CAM	22132

STATOR	22163
DISTRIBUTOR PROTECTOR	22172
VACUUM CONTROL	22201
IGNITION COIL/PWR TRANSISTOR	22435
HIGH TENSION CABLE	22450
RESISTOR	22460
IGNITION COIL PROTECTOR	22455
AIR CUT VALVE	22622
ALTERNATOR	22100
ALTERNATOR ROTOR	22105
ALTERNATOR BEARING	22125
ALTERNATOR BRUSH HOLDER	22123
ALTERNATOR BULB	22150
12 VOLTAGE REGULATOR	22215
DIODE KIT	22320
STARTER MOTOR ASSY	22321
FIELD COIL	22325
ARMATURE	22321
CLUTCH PINION	22315
REDUCTION GEAR	22315
STARTER SOLENOID	22345
BRUSH	22363
BATTERY CABLE	24110
BATTERY TRAINER W/POD	54228

LOWER VALVE ASSY	14601
PURGE VALVE (ENGINE) W/ASSY	14517
HOOPER VALVE SOLENOID	14621
EPC VALVE	14600
PRES. SUPP. REG. CONTROL	14260
ELECTRIFIED SOL. INJ.	16015
VEHICLE CHAMBER	16315
ALTITUDE SWITCH	16322
THROTTLE CHAMBER	16110
THROTTLE LINKAGE	16135
WATER HEATER	16121
MANIFOLD	16102
EGR SOLENOID VALVE	16137
WAX UNIT	16200
WAX HOLDER	16351
COLD START VALVE	16601
EGR INJECTION	16600
REGULATOR	16600
FUEL PUMP (CONTROL) MODULE	16001
THROTTLE CHAMBER	17110
O.D. CASE	17404
DETONATION SENSOR	22620
VACUUM UNIT	22627
VACUUM SWITCH	22641
CONTROL UNIT (CONV.)	22641
CONTROL UNIT (E)	22611
THROTTLE VALVE SWITCH	22620
WATER TEMP SENSOR	22680
AIR TEMPERATURE SENSOR	22691
CYLINDER HEAD TEMP SENSOR	22692
THERMISTOR SWITCH	22625
AIR REGULATOR	22663
I.S.C. VALVE	22664
PRESSURE REGULATOR	22670
PRESSURE REG. CONTROL MODULE	22671
PRESSURE PUMP	22674
AIR FLOW METER	22680
AIR FLOW METER BRACKET	22682
VACUUM CONTROL VALVE	22686
MAN RELAY	22644
DROPPING RESISTOR	22695
PT RELAY	22685

COMPONENT	P.N.
MAIN & FUEL PUMP RELAY	22607
CRANK ANGLE SENSOR	22730
A.F.C. VALVE	22781
EI BARNESSE	24011
MIXTURE HEATER RELAY	25281
PCV VALVE	11810
EGR TUBE	14120
EGR CONTROL VALVE	14710
EGR PASSAGE	14711
EXHAUST EMP SENSOR	14790
BPT VALVE	14741
A.I.V. UNIT CASE	14610
A.I.V. TUBE	14621
AIR INJECTION PIPE	14823
AIR CONTROL VALVE	14822
A.B. VALVE	14825
SERVICE PORT-EVAP	14826
AIR INJECTION VALVE	14864
A.I.V. BODY	14880
THERMAL VACUUM VALVE	14850
SOV SOLENOID VALVE	14951
EPC VALVE	14953
EGR SOLENOID VALVE	14954
VACUUM CUT SOLENOID	14955
A.I.V. SOLENOID VALVE	14956
EGR MIXTURE SOLENOID	14956
SPARK DELAY VALVE	14956
FUEL CUT SOLENOID	16186
ENGINE REVOLUTION SWITCH	16267
EGR VACUUM CONTROL VALVE	22360
EGR VACUUM CONTROL VALVE	22365
THROTTLE VALVE SWITCH	22360
O2 SENSORS	22600
REAR OXYGEN O2 SENSOR	22601
CRANK POSITION SENSOR-RING GEAR	22723
EGR CONTROL UNIT	25024
FUEL CUT OFF CLUTCH SWITCH	25222
EGR RESERVOIR TANK	22908

TRANSMISSION

DRAIN PLUG 4WD	35101
PROPELLER SHAFT	37001
FRONT PROPELLER SHAFT	37010
JOURNAL ASSY	37125
CENTER BEARING BRACKET	37511
CENTER BEARING	37521
CENTER BEARING INSULATOR	37522
RING & PINION SET	38100
DRAIN GEAR BOLT	38102
REAR PINION BEARING	38120
FRONT PINION BEARING	38140
PINION BEARING SPACER	38160
PLANET BEARING SPACER	38180
DRIVE PINION OIL SEAL	38190
COMPANION FLANGE	38210
SIDE FLANGE	38220
SHOULDER FLANGE 4WD	38251
DIFFERENTIAL CARRIER HOUSING	38310
DIFFERENTIAL CARRIER 4WD	38311
REAR COVER GASKET	38320
SIDE RETAINER O-RING 4WD	38340
REAR COVER	38350
BREATHER	38352
BREATHER 4WD	38352
DRAIN PLUG	38355
STD SLIP DIFFERENTIAL ASSY	38420
DIFFERENTIAL CASE	38421
SIDE GEAR	38423
SIDE GEAR THRUST WASHER	38424
PINION MATE	38425
THRUST BLOCK	38430

COMPONENT	P.N.
DIFFERENTIAL CASE 4WD	38546
SIDE GEAR 4WD	38547
SIDE GEAR THRUST WASHER	38548
PINION MATE 4WD	38549
PINION MATE THRUST WASHER	38550
	38551
	38552
	38553
REAR MAIN SEAL	12270
FLYWHEEL ASSY	12310
FLYWHEEL RING GEAR	12311
FIXING BOLT	12318
DRIVE PLATE ASSY	12321
A.T. COOLER BYPASS VALVE	21607
OIL COOLER TUBE	21601
DIFFERENTIAL OIL COOLER	21650
DIFFERENTIAL OIL PUMP	21650
THERMAL SWITCH	21660
CIRCUIT BREAKER	24380
O.D. CANCEL POWER SWITCH	25130
SHIFT PATTERN SELECTOR SWITCH	25131
SHIFT LOCK RELAY	25220
TRANSFER RELAY	25240
BLEEDER CLUTCH	30621
PUSH ROD	30622
CLUTCH BOOSTER	30630
PUSH ROD	30631
CHECK VALVE ASSY	30639
CLUTCH TUBE & HOSE	30650
CLUTCH VACUUM HOSE	30661
CLUTCH OPERATING CABLE	30670
CONVERTER BOLT	31020
A.T. CONTROL UNIT	31021
O.D. INDICATOR SWITCH	31041
VACUUM MODULATOR	31050
THROTTLE CABLE	31051
CVT STEEL BELT	31240
CONVERTER HOUSING	31301
CONVERTER HOUSING GASKET	31305
TRANSMISSION CASE	31310
O.D. CASE (4 SP)	31320
REAR EXTENSION (ADAPTOR)	31330
OIL PUMP	31340
FRONT OIL SEAL	31343
OIL PUMP HOUSING SEAL	31344
OIL PUMP ROTOR SET	31345

BODY & INTERIOR/ACCESSORIES

COMPONENT	P.N.C.
BODY BOND HARNESS	26376
	26388
	26390
	60550
DEFROSTER GRILL	69742
SELF DEFROSTER GRILLE	69745
CENTER VENT NOZZLE	69789
SUN ROOF LOCK	73520
MOTOR - STORAGE LID OPENER	64472
RECLINING SWITCH	66401
SENSOR - PRESSURE DETECTION	66609
PASSIVE BUCKLE ASSY	66678
SEAT BELT POWER UNIT	68910
SEAT BELT SLIDE ASSY	68923
SEAT BELT LIMIT SWITCH	66870
SEAT BELT LIMIT SWITCH	68809
SWITCH SEAT SLIDE	66967
SIDE AIRBAG HARNESS	67020
BACK VIBRATOR PLATE	67069
CUSHION VIBRATOR PLATE	67069
SLIDE, LIFT SWITCH (PWR/SEAT)	67352
FR. SEAT LIMIT SWITCH	67564
FR. PUMP	67652
SLIDE ASSY (PWR/SEAT)	67652
LIFT ASSY (PWR/SEAT)	67654
SEAT SWIVEL ASSY	68201
2ND SEAT BACK HINGE	68310
REAR RECLINING DEV. OF ASSY	68461
2ND SEAT SLIDE	68601
SLIDE ASSY - 3RD SEAT	68609
REAR SEAT BACK LOCK	68609
REAR SEAT BACK STRIKER	68609
3RD SEAT HINGE ASSY	68609
SEAT LOCK ASSY	68641
LOCK ASSY - 2ND SEAT	68641
RECLINING DEVICE ASSY	68641
RAIL ASSY - 3RD SEAT	68641
7" FAIRLEAD PULLEY	68641
FR. SEAT BELT HOOK	68641
AIRBAG LOCK	68641
SEAT BELT AND SIDE BRK. HOLDING	68641
SIDE AIRBAG NOZZLE ASSY	68641
AIRBAG ON/OFF SWITCH	68641
AIRBAG ON/OFF SWITCH HARNESS	68641
W. L. LIFT, 21 BAG RES. DEVICE	68641

V.S.S. ELECTRONIC MODULE	AA600
V.S.S. REAR PANEL	AA601
V.S.S. HARNESS	AA602
V.S.S. PIN SWITCH	AA603
V.S.S. ELECTRONIC MODULE	AA600

FRONT ASSY #	K1951
FRONT ASSY #1	K1952
FRONT ASSY #2	K1953
FRONT ASSY #3	K1954
FRONT ASSY #4	K1955
FRONT ASSY #5	K1956
FRONT ASSY #6	K1957
FRONT ASSY #7	K1958
FRONT ASSY #8	K1959
FRONT ASSY #9	K1960
FRONT ASSY #10	K1961
FRONT ASSY #11	K1962
FRONT ASSY #12	K1963
FRONT ASSY #13	K1964
FRONT ASSY #14	K1965
FRONT ASSY #15	K1966
FRONT ASSY #16	K1967
FRONT ASSY #17	K1968
FRONT ASSY #18	K1969
FRONT ASSY #19	K1970
FRONT ASSY #20	K1971
FRONT ASSY #21	K1972
FRONT ASSY #22	K1973
FRONT ASSY #23	K1974
FRONT ASSY #24	K1975
FRONT ASSY #25	K1976
FRONT ASSY #26	K1977
FRONT ASSY #27	K1978
FRONT ASSY #28	K1979
FRONT ASSY #29	K1980
FRONT ASSY #30	K1981
FRONT ASSY #31	K1982
FRONT ASSY #32	K1983
FRONT ASSY #33	K1984
FRONT ASSY #34	K1985
FRONT ASSY #35	K1986
FRONT ASSY #36	K1987
FRONT ASSY #37	K1988
FRONT ASSY #38	K1989
FRONT ASSY #39	K1990
FRONT ASSY #40	K1991
FRONT ASSY #41	K1992
FRONT ASSY #42	K1993
FRONT ASSY #43	K1994
FRONT ASSY #44	K1995
FRONT ASSY #45	K1996
FRONT ASSY #46	K1997
FRONT ASSY #47	K1998
FRONT ASSY #48	K1999
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FRONT ASSY #50	K2001
FRONT ASSY #51	K2002
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FRONT ASSY #53	K2004
FRONT ASSY #54	K2005
FRONT ASSY #55	K2006
FRONT ASSY #56	K2007
FRONT ASSY #57	K2008
FRONT ASSY #58	K2009
FRONT ASSY #59	K2010
FRONT ASSY #60	K2011
FRONT ASSY #61	K2012
FRONT ASSY #62	K2013
FRONT ASSY #63	K2014
FRONT ASSY #64	K2015
FRONT ASSY #65	K2016
FRONT ASSY #66	K2017
FRONT ASSY #67	K2018
FRONT ASSY #68	K2019
FRONT ASSY #69	K2020
FRONT ASSY #70	K2021
FRONT ASSY #71	K2022
FRONT ASSY #72	K2023
FRONT ASSY #73	K2024
FRONT ASSY #74	K2025
FRONT ASSY #75	K2026
FRONT ASSY #76	K2027
FRONT ASSY #77	K2028
FRONT ASSY #78	K2029
FRONT ASSY #79	K2030
FRONT ASSY #80	K2031
FRONT ASSY #81	K2032
FRONT ASSY #82	K2033
FRONT ASSY #83	K2034
FRONT ASSY #84	K2035
FRONT ASSY #85	K2036
FRONT ASSY #86	K2037
FRONT ASSY #87	K2038
FRONT ASSY #88	K2039
FRONT ASSY #89	K2040
FRONT ASSY #90	K2041
FRONT ASSY #91	K2042
FRONT ASSY #92	K2043
FRONT ASSY #93	K2044
FRONT ASSY #94	K2045
FRONT ASSY #95	K2046
FRONT ASSY #96	K2047
FRONT ASSY #97	K2048
FRONT ASSY #98	K2049
FRONT ASSY #99	K2050
FRONT ASSY #100	K2051

HYDRAULIC MOTOR/PUMP ASSY	K8040
HYDRAULIC CYLINDER ASSY	K8041
HOSE/BYPASS VALVE ASSY	K8042
SIDE WINDOW REGULATOR ASSY	K8043
RELAY STORAGE OPENER	25209
RELAY STORAGE OPEN CANCEL	25211
RELAY TOP STR. RR LOCK OPENER	25212
RELAY TOP INTERLOCK	25213
RELAY TRUNK LID OPENER	25221
RELAY TRUNK LID OPEN CANCEL	25222
UNIT - FOLDING ROOF CONTROL	25319
SWITCH - LIMIT ROOF FRONT	25365
	25366
	25367
	25368
SWITCH - TRUNK OPENER CANCEL	25365

COMPONENT	P.N.C.
SWITCH - ROOF OPENER	25465
THEFT WARNING PIN SWITCH	69542
	73009
	76871
	76874
	76880
	76852
FUEL LID ACTUATOR	78926
RR PARCEL SHELF BRACKET ASSY	80520
GUIDE PIN	80524
PIN RECEIVER	84472
MOTOR - STORAGE LID OPENER	84480
SWITCH - STORAGE LID STOP	84680
	89130
	90552
	97004
	97012

LATCH - ROOF FRONT	97086
STAY - REAR HATCH	97086
LOCK ASSY, REAR	97090
REAR LOCK STRIKER PIN	97092
	97095
	97094
	97097
	97100
RAIL ASSY, CENTER	97106
RAIL ASSY, REAR	97112
LINK ASSY, BALANCE	97120
MOTOR/RAIL - REAR HATCH	97128
LINK CONTROL	97132
TOP STACK FOLDING BRACKET	97142
BRACKET, FOLDING ROOF FRONT INCLUDING	97143
BRACKET, FOLDING ROOF REAR INCLUDING	97146
BALANCE SPRING	97148
	97156
	97164
	97167
	97172
	97177
	97179
	97179
	97180
	97184
	97188
	97242
	97242
	97243
	97244
	97246
	97252
	97254
	97256
	97259
	97260

	97156
	97164
	97167
	97172
	97177
	97179
	97179
	97180
	97184
	97188
	97242
	97242
	97243
	97244
	97246
	97252
	97254
	97256
	97259
	97260
SCREEN - REAR	197380

CONFIDENTIAL ATTACHMENT F
Engineering Design and Development

Design Report No.	KC2-W-253		
Issue date	'01.11.20		
Engineer	GPE	Manager	GM
Horiuchi	NA	Hashimoto	NA
			N
Title	Drawing issue of casted 17 and 18 inch wheels for Hayes Lemmerz for Slot		
Contents	N Moment fatigue:OK by Hayes Drum fatigue:OK by Hayes 13deg impact:OK by Hayes After 90deg impact moment fatigue:OK by Hayes Nut seat regidity:OK by Hayes Moment fatigue:OK by Nissan test group Drum fatigue:OK by Nissan test group 13deg impact:OK by Nissan test group After 90deg impact moment fatigue:OK by Nissan test group		
Perpose	New wheel development		

Design Report No.	KC2-W-258		
Issue date	'01.12.14		
Engineer	GPE	Manager	GM
Horiuchi	Takenaka	Hashirnoto	NA
Title	To change of rear rim width for 18inch forged wheels		
Contents	Rim width from 8JJ to 8.5JJ Schedule of development		
Perpose	Improvement of handling performance		

Design Report No.	KC2-W-288		
Issue date	'02.2.27		
Engineer	GPE	Manager	GM
Horiuchi	Takenaka	Hashimoto	NA N
Title	Drawing issue of casted 17 and 18 inch wheels for Hayes Lemmerz for Slot		
Contents	<p>N</p> <p>17inch >Rear rim width change from 7.5 to 8 >Only front wheel fitting structure added</p> <p>18inch >Only front wheel fitting structure added</p> <p>Paint test result: OK by Nissan material group</p> <p>Moment fatigue:OK by Hayes</p> <p>Drum fatigue:OK by Hayes</p> <p>13deg impact:OK by Hayes</p> <p>After 90deg impact moment fatigue:OK by Hayes</p> <p>Nut seat regidity:OK by Hayes</p> <p>Moment fatigue:OK by Nissan test group</p> <p>Drum fatigue:OK by Nissan test group</p> <p>13deg impact:OK by Nissan test group</p>		
Perpose	New wheel development		

Design Report No.	KC2-W-289		
Issue date	'02.2.23		
Engineer	GPE	Manager	GM
Horiuchi	NA	Hashimoto	NA
			N
Title	Drawing issue of forged 18 inch wheels for RAYS		
Contents	N Moment fatigue:OK by RAYS Drum fatigue:OK by RAYS 13deg impact:OK by RAYS After 90deg impact moment fatigue:OK by RAYS Nut seat regidity:OK by RAYS		
Perpose	New wheel development		

F-33

Design Report No.	KDT-W-026		
Issue date	'02.5.31		
Engineer	GPE	Manager	GM
Horiuchi	Takenaka	Hashimoto	NA
	N		
Title	Drawing issue of casted 17 and 18 inch wheels for Hayes Lemmerz made in Thailand		
Contents	N Moment fatigue:OK by Hayes Drum fatigue:OK by Hayes 13deg impact:OK by Hayes After 90deg impact moment fatigue:OK by Hayes Nut seat rigidity:OK by Hayes Paint test result: OK by Hayes FEA result: OK by Hayes		
Perpose	Hayes's request		

Design Report No.	KDT-W-038		
Issue date	'02.6.25		
Engineer	GPE	Manager	GM
Horiuchi	Takenaka	Hashimoto	NA N
Title	Drawing issue of forged 18 inch wheels for RAYS		
Contents	N Paint test result: OK by Nissan material group Moment fatigue:OK by Nissan test group Drum fatigue:OK by Nissan test group 13deg impact:OK by Nissan test group Nut loosening:OK by Nissan test group Nut seat regidity:OK by Nissan test group		
Perpose	New wheel development		

F-70

Design Report No.	KDT-W-074		
Issue date	'02.8.28		
Engineer	GPE	Manager	GM
Horiuchi	Takenaka	Hashimoto	NA
			N
Title	Drawing issue of casted 18 inch wheels for Hayes Lemmerz		
Contents	N >Mounting face diameter changed		
Perpose	Appearance of brake rotor		

Design Report No.	KDT-W-081		
Issue date	'02.9.12		
Engineer	GPE	Manager	GM
Horiuchi	NA	Hashimoto	NA
			N
Title	Drawing issue of forged 18 inch wheels for RAYS		
Contents	N Moment fatigue:OK by RAYS Drum fatigue:OK by RAYS 13deg impact:OK by RAYS After 90deg impact moment fatigue:OK by RAYS Nut seat regidity:OK by RAYS		
Perpose	New wheel development		

Design Report No.	XJ2-W-098		
Issue date	N°06.9.26	1°06.12.27	
Engineer	GPE	Manager	GM
Horiuchi	Takenaka	Saeki	NA
Horiuchi	Takenaka	Saeki	NA
Title	To change of pretreatment of paint to 6 chrom free for forged wheels made by RAYS		
Contents	N Test report from Meterial groupe in Nissan: OK Test report from RAYS: OK (SST,CCT,SWOM,Chemical,Paint thickness,etc) To change Part No.		
	1 Drawing issue		
Perpose	Environment		

F - 175

CONFIDENTIAL ATTACHMENT G1
Engineering Specifications and Requirements

Design Report No.	KC2-W-248		
Issue date	'01.11.6		
Engineer	GPE	Manager	GM
Horiuchi	Takenaka	Hashimoto	NA N
Title	Spec Tender of new forged 18 inch wheels to RAYS		
Contents	N Development shedule		
Perpose	New wheel development		

Design Report No.	KDT-W-019			
Issue date	'02.5.15			
Engineer	GPE	Manager	GM	
Horiuchi	Takenaka	Hashimoto	NA	N
Title	To add appearance specification for wheels made by Hayes Lemmerz			
Contents	N To add appearance specification NES C5058			
Purpose	Clarify appearance quality specifications			

Design Report No.	KD2-W-082		
Issue date	'04.4.13		
Engineer	GPE	Manager	GM
Horiuchi	Takenaka	Oomura	NA N
Title	Spec Tender of new casted 18 inch wheels to UBE		
Contents	N Development shedule FEA result:OK (Fatigue,Disc rigidity)		
Perpose	New wheel development		

Design Report No.	KD2-W-110		
Issue date	'04.10.1		
Engineer	GPE	Manager	GM
Horiuchi	Takenaka	Ocmura	NA
	N		
Title	Spec Tender of new forged 18 and 18 inch wheels to RAYS		
Contents	N Development shedule		
Perpose	New wheel development		

Design Report No.	KD2-W-126			
Issue date	'04.11.15			
Engineer	GPE	Manager	GM	
Horiuchi	Takenaka	Oomura	NA	N
Title	440(06MY) Formal design note issued			
Contents	N To apply new 18inch casted wheel To apply new 18,19inch forged wheel To apply 18inch forgrg wheels (Carry over from 05MY)			
Perpose	06MY application			

G-51

Design Report No.	KD2-W-122		
Issue date	'04.12.02		
Engineer	GPE	Manager	GM
Horiuchi	Takenaka	Oomura	Murata N
Title	Drawing issue of new casted 18 inch wheels for UBE Automotive		
Contents	N Moment fatigue:OK by UBE Drum fatigue:OK by UBE 13deg impact:OK by UBE After 90deg impact moment fatigue:OK by UBE		
Perpose	New wheel development		

Design Report No.	XJ2-W-099		
Issue date	'07.1.11		
Engineer	GPE	Manager	GM
Horiuchi	Takenaka	Saeki	NA
			N
Title	Drawing issue of casted 18 inch wheels for UBE Automotive		
Contents	N >The shape of center hub hole changed >The shape of outer weight fitting area changed >The thickness of rim changed >The shape of inner rim hump position changed >Pretreatment of painting to be 6 chrom free		
Purpose	Cost reduction, Environment		

G-59

CONFIDENTIAL ATTACHMENT G2
CD of Engineering Specifications and Requirements

CONFIDENTIAL ATTACHMENT H
CD with Engineering Drawings