# VISSAN

NISSAN NORTH AMERICA, INC.

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

Telephone: 615.725.1000



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** 

NISSAN

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

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

Mr. O. Matheke October 8, 2007 Page 2

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 guite 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,

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		Page	
Number	Attachment	Number	Title
			Drawing issue of cast 17 and 18 inch wheels for Hayes
1	F	F2-F16	Lemmerz for S-lot
2	F	F18-F19	To change rear rim width for 18 inch forged wheels
ï		·	Drawing issue of cast 17 and 18 inch wheels for Hayes
3	F	F21-F32	Lemmerz for S-lot
4	F	F34,F36-F37	Drawing issue of forged 18 inch wheels for RAYS
			Drawing issue of cast 17 and 18 inch wheels for Hayes
5	F	F39-F69	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
2			
		F128,F130-	· · · · · · · · · · · · · · · · · · ·
8	F	F151,F152-F174	Drawing issue of forged 18 inch wheels for RAYS
			5
	•	F176-F179,F182	To change pretreatment of paint to 6 chrom free for
9	F ·	F208	forged wheels made by RAYS
		. 200	torgod tritode made 25 to the
10	G1	G2-G3	Spec tender of new forged 18 inch wheels to RAYS
		G5-G9,G11-	To add appearance specification for wheels made by
11	G1	G18.G20-G26	Hayes Lemmerz
		G28-G30,G32-	
12	G1	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
			Drawing issue of new cast 18 inch wheel for UBE
15	G1	G55-G58	Automotive
			Drawing issue of new cast 18 inch wheel for UBE
16	G1	G60	Automotive
17	G2	CD	Confidential Attachment G2
18	H	CD	Confidential Attachment H
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# 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. 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; 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. 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;
- <u>f. Whether the original unmodified equipment was withdrawn</u> 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:

			Prev Equip		
Date	Description	Reason	Withdrawn	Available	Interchangeable
	Change pretreatment			Spring	
12/27/2006	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;
- <u>f. A description of the changes in strength, modulus and other</u> <u>relevant material</u>
- <u>properties when a subject wheel is subjected to aftermarket</u> <u>re-chroming and</u>
- 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
- <u>outside the vehicle would have that the alleged defect was</u> occurring or subject
  - equipment was malfunctioning; and
  - h. The reports included with this inquiry.

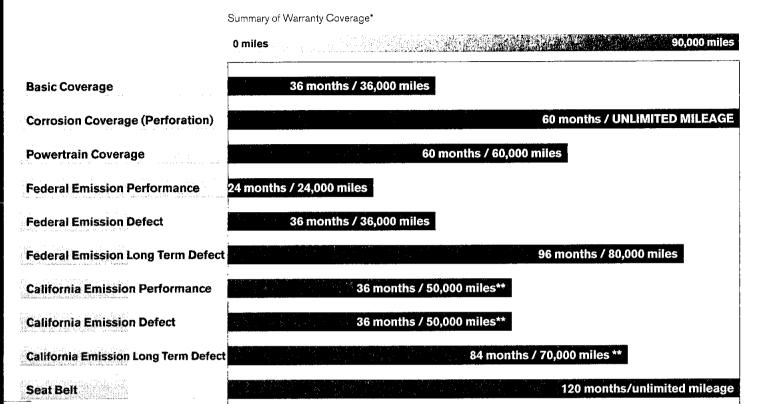
Nissan knows of no defect in design, manufacture, or performance of the original equipment road wheels in the subject vehicles that has caused or contributed to structural failures of the wheels. There have been reports of wheel cracking or wheel separation on the subject vehicles. Based on an inspection 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, nonuniform 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 fatique 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



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

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

### 2006 NEW VEHICLE LIMITED WARRANT

#### WHO IS THE WARRANTOR

Nissan¹ 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

#### 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 ong 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) 950-5100] 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 36,00 miles, whichever comes first.
- This warranty covers any repairs needed to correct defects in materials or workmanship of all parts and compo nents of each new Nissan vehicle supplied by Nissa except for the exclusions or items listed under the cap tion "WHAT IS NOT COVERED" or as indicated below
- Bedliners will be repaired to commercially acceptable standards subject to the conditions and limitation 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 be low, 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.

<sup>1</sup> Nissan indicates Nissan North America, Inc., P.O. Box 191, Gardena, California, 90248-0191 which distributes Nissan vehicles in the United States.

<sup>&</sup>lt;sup>2</sup> See the Owner's Manual for information relevant to proper operation of the vehicle, including the recommended fuels and fluids.

#### 2006 NEW VEHICLE LIMITED WARRANTY

#### DRIVETRAIN

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

#### 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.

#### **編 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.

#### M 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 <u>not</u> 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.")

#### 2006 NEW VEHICLE LIMITED WARRANTY

# 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 wipe insents, lub.loants, coolant; worn brake shoes, pads, drums and rotors and worn clutch discs.

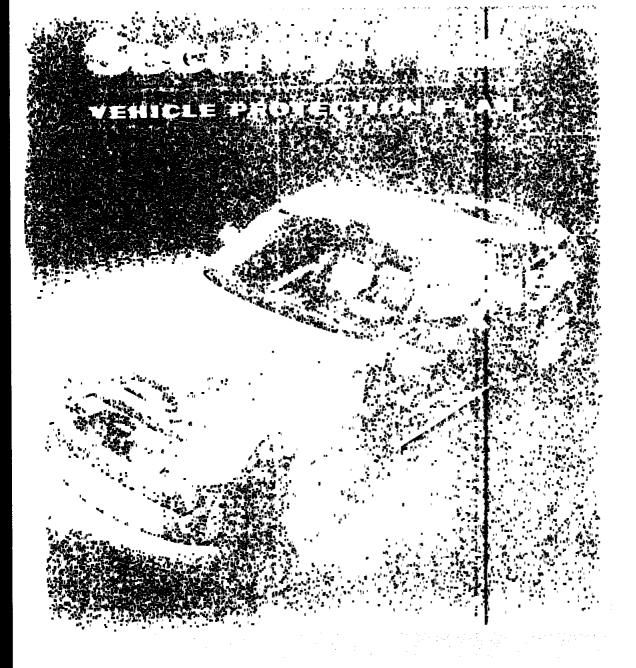
## SEAT BELTS, TIRES, AND EMISSION CONTROL SYSTEM

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



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 Pian, 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.\*

# MISSAN 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 Nissantrained 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 Se vice Agreement or contact your local Nissan dealer.

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DRAMOSE PLOOP	1010
CYLINDER BLOCK WEI SA PLUC	11021
CYLINDER HEAD	11(r-1
CYLINDER HEAD GASKET	11044
CIEINZER HERE OCT	11046
CYLINDER HEAD WELSH PLUG	11051
CYLINDER HEAD BOUT	11096
INTAKE VALVE SEAT	11099
EXHAUST VALME SEAT	11110
OIL PAN GASILET	11121
CIL PAN DRAIN PLUG	11125
DIPSTICI	11140
FRONT ENGINE MOUNT	11290
	11221
FRONT MOUNT BRACKET	11232
CENTER MEMBER ENGINE DAMFER ASSY	11246
GUSSET	11262
ENGINE MOUNT ACTUATOR ASSV	11273
ENGINE MOURT DAMPER	11280
REAR ENGINE MOUNT	11320
ROLL DAMPER ENGINE MOUNT	11325
REAR MOUNT BRACKE:	11340
SUFFER	11721
TIMMS BELT SERPENTINE BELT TENSIONES ASSY	11759
SERVER INC BELL TENSIONER BRACKET	11927
SERPENTINE SELT TENSIONER BRACKET PISTON & PIN SE	12010
PISTON RINGS	10039
CONFECTING ROD & CAT SET	12100
COMESCIPIE ROLEBEARDSE	10010
METON OIL IT	19121
CRANCSHAFT.	1 (1.00%)
MARK BEARWOS	1 12907
ESTRICAN SEA.	1227.1
CRASHATT UIL TY	1 1000a 1 10809
DULLEY BOX	12410
BE AND THE USE	13001
DWW-PULL SUBBRICHOUS	13000
	130 14
DUES SUAS FORE FORAT CAR	13015
CRANCSHAFT CEAS	1307
CAMSHAFT GEAR	13024
CAMSHAFT SPROKUR	13004
SPROCEER ASSN - VIC	10025
TIMING CHAIL	13058
FRONT COVER	130/2
CRANKSHAFI OR SEAL.	
CAMSINATE OR DUB.	
OCCUPATION AND THE PROPERTY OF	13045
COVER GASKET	13042
WATER PLET	13044
WATER PALES L'ETER GU'OL	13044
WATER PLET	13044 13049 13054
WATER NO.21 DESER GUID. GEARN TERNSONE! TRUTHE CHAIR OF ATT. CHAIR TERNSONER SICE SAME!	13045 13045 13051 13071- 13081 13081
WATER POLIT THE GUID. CHAIN TENSONS! TRANK CENTER OF IT. CHAIN TENSONER BOTH GAME! BUIS SHAP!	13044 13049 13049 13070 13081 13081 13161
WATER PALES STEER GUID CHARK TERNS ONES TRITUSE CHARK OLD AT CHARK TERNS ONES JACK SHAFT JACK SHAFT AT STEER STEER SHAFT AT STEER	13044 13045 13045 13051 13081 13081 13161 13161
WATER PALES STEER GUD. GERAN TENS ONES TROUG OF MER ON ME CHARL TENSOMER SIGE GARES JACK SPALE JACK SERVER SERVER JACK SERVER SERVER JACK SERVER SERVER JACK SERVER SERVER	13044 13045 13045 13075 13085 13085 13165 13168 13170
WATER PALES DISTRICTORY CHAIN TENSIONES TRUTIS CHAIN OLD AT CHAIN TENSIONES SICE SAMES JACK SHAFT JACK SHAFT AT STALL JACK SHAFT STALL	130/4 130 (\$ 1307) 13031 13031 13031 13031 13161 13170 1327
WATER POLITION OF THE COURT OF	13044 130 (\$ 130 00 130 70 130 81 130 81 131 83 131 73 131 73 130 81 131 73 130 81
WATER PALES STEER GUID CHARK TENSIONES TRITISE CHARK OLD AT CHARK TENSIONES SICE GUID JACK SHAFT	13864 13035 13035 13037 13031 13031 13031 13163 13173 13301 13302 13302 13302 13302
WATER PALE  FERENCE DE CONTROL  CHART TENSONER  TRANS CHART OLL BE  CHART TENSONER SICH SAMER  AGAI SPAT  WALE SPAT  VALE OLL SPAT  VALE OLL SPAT	13864 13805 13805 13805 13805 13805 13805 1316 1316 1317 1390 13905 13905
WATER PALE  FERENCE DE CONTROL  CHART TENSONER  TRANS CHART OLL BE  CHART TENSONER SICH SAMER  AGAI SPAT  WALE SPAT  VALE OLL SPAT  VALE OLL SPAT	13864 13804 13804 13804 13804 13804 13804 13168 13174 13904 13904 13905 13207 13207
WATER PALES STEER GUID GERRY TERRS ONES TRANSE OF SHEET GERRY TERRS ONES GERRY GERRY TERRS ONES GERRY GERRY TERRS ONES GERRY GERRY TERRS GERRY G	138/44 138045 138045 138041 138041 138041 138041 13104 13170 13204 13204 13204 13205 13207 13207
WATER POLITIONS OF THE BOY OF THE SOUTH OF T	1304-1 13015-1 13021-1 13021-1 13021-1 13021-1 13021-1 13121-1
WATER POLITIES ON THE CONTROL OF THE	13062 13073 13073 13073 13073 13073 13073 13163 13173 13773
WATER PALES STEER GUID GRAIN TENSIONES TRITISE CHARLA OLD AT CHARLA TENSIONES SICE GUID JACK SHAFT OLD ST JACK SHAFT VALUE SHAFT VALUE SHAFT VALUE GRADE VALUE GRA	138/62 148/62 148/02 14
WATER PALES STEER GUID. GHART TENSIONES TRIVES CHART OLD AT CHART TENSIONES SITE SARES JACK SHAFT OLD SEA AND SHAFT OLD SEA EXTRES WALT WALT SERVICE VALUE S	13062 13073 13073 13073 13073 13073 13073 13163 13173 13773
WATER POLE  FITHER GUID.  CHAIN TENSIONER  TRANS CHARLO O. IF  CHAIN TENSIONER SICE SAME  AGAI SPAT  LOGS SHAFT O. ST A.  LACA SHAFT O. ST A.  LACA SHAFT SERVICE  WALLE SHAFT  WALLE SOCKER	138/62 130/52 13
WATER POLITIONS ON THE COURT CONTROL OF THE COURT CONTROL ON THE COURT CONTROL OF THE COURT CONTROL OF THE COURT CONTROL ON THE COURT CONTROL OF THE COURT CONTROL OF THE COURT CONTROL ON THE COURT C	138/62 130/52 13
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WATER POLITION OF THE BOYD.  CHAIR TENSIONS TRUME CHAIR OF AT THE BOYD.  CHAIR TENSIONSE BOY SUBTINESSES TO SELECT	138/62 13
WATER POLITICITIES ON THE GUID CHAIR TENSIONS TO SHAPE CHAIR OLD AT CHAIR CHAIR OLD AT CHAIR THE SHAPE CHAIR OLD AT CHAIR SHAPE CHAIR OLD AT CHAIR SHAPE CHAIR OLD AT CHAIR OL	138/62 130/52 130/52 130/52 130/52 130/52 130/52 130/52 131/52 131/52 132/52 13
WATER PLAN  FITHE GUID. CHAIN TENSIONER  TRANS CHAPA OLD BY  CHAIN TENSIONER SICK GARD  JACK SHAPT OLD BY AL  JACK SHAPT OLD BY AL  JACK SHAPT OF AND  FALASY MANT  WALE SPRONG  VALUE OLD SPA  VAL	130/4-1 130/4-
WATER POLD  THER GUID  CHAIN TERSONSE  TRAVE CHAPA OLDE  CHAIN TERSONSE SICE SUBTI  ACK SPAT  LOCK	138/64 130/54 130/54 130/54 130/54 130/54 131/54 131/54 131/54 132/54 13
WATER POLITION OF THE BOYS OF	138/62 14
WATER POLE  FITTER GUID. CHAIN TENSONS!  TRANS CHAPA OLD BY  CHAIN TENSONS!  TRANS CHAPA OLD BY  EACH SHAPA  WATE SHROWS  WALE OLD SHAPA	138/62 130/52 13
WATER PLANT  FITTER GUID.  CHAIN TERSONSE  TRANTE CHAPA OL. IF  CHAIN TERSONSE SICE SARE  AGAI SPAT  JACK SPAT  JACK SPAT  JACK SPAT  JACK SPAT  JACK SPAT  JACK SPAT  WALE  FALAST WALT  WALE SPANN  WALE SPANN  WALE  SPANN  WALE  SPANN  WALE  SPANN  WALE  SPANN  WALE  SPANN  WALE  SPANN  WALE  SPANN  WALE  SPANN  WALE  SPANN  WALE  SPANN  WALE  SPANN  WALE  SPANN  WALE  SPANN  WALE  SPANN  WALE  SPANN  WALE  FROM  WALE  WAL	130/6-1 130/6-
WATER POLE  THER OUD.  CHAIN TERSONSE  TRANS CHAIR OLDE  CHAIR TERSONSE SIZE SUFFE  JACK SHAFT  JACK S	138/62 130/52 13
WATER POLE  FITTER GUID. CHAIN TENSONS!  TRANS CHAIR FOR AN ELECTRIC CHAIR SHAPE  VALVE GUIDE CHAIR FOR AN ELECTRIC CHAIR SHAPE  VALVE FOR AN ELECTRIC CHAIR SHAPE  VALVE FOR CHAIR SHAPE  VALVE ROCKERSHAPT SPRING  VALVE ROCKERSHAPT  VALVE ROCKERSHAP	130/61 130/61 130/61 130/61 130/61 130/61 130/61 130/61 131/61 13
WATER POLE  THER OUD.  CHAIN TERSONSE  TRANS CHAIR OLDE  CHAIR TERSONSE SIZE SUFFE  JACK SHAFT  JACK S	138/62 13

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VATER OUTLES	11080
HERMOSTAT HOUSING	11061
VATER OUTLET GASKET	11062
YLINDER BLOCK WATER OUTLET	11063
HERMOSTAT HOUSING GASKET	11072
T AIR GUIDE	11339
VATER CONNECTOR	14054
ANTER CONNECTOR	15010
11- 121 17-12	
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•	
	1
	1
=	21010
WATER PUMP	
WATER PUMP HOUSING AND GASKET	21012
WATER PUMP GASKET	21014
WATER PUMP/FAN PULLEY	21051
FAN BLADE	21060
FAN COUPLING ASSY	21082
THERMOSTAT	21200
OIL COOLER FIRE	21300
	i
OIL GOOLER GASKET	[21310]
PT—OIL COOLER HOSE	21355
DADIATOS	21400
RADIATOR DAY	21430
RADIATOR CAP RADIATOR SHROUD	21476
	21480
RADIATOR DRAIL COCK	21490
INVECTOR BUDWER MOTOR	+
	•
	i
	İ
	Laskini
RCSERVOIR TANK	21510
RESERVOIR TANK BRACKET	
	21595
	21597
	21600
	1
OIL PRESSURE SENDING UNS	25240
OIL PRESSURE SWITCH	25244
BLOWER MOTOR TIMER	28912
	1
BOOST CONTROL VALVE	14220
TURGE CONTROL VALVE ASSV	14930
VALME EVAPICIAN FURGE VOLISOL	14981
VALVEJEVAR CAN FURGE VOLISOL RESONATOR - EVAP PURGE	14984
VAPOR CANISTER ASSI	14949
CARROY CARISTER	14950
EBU WORE	Liversi
•	14953
	[ 14855 ]
	[ 14805 ]
	[14855]
	· ·
HOWER VALVE	18059
F) OAT	18059 18051
F) OAT NEEDEF VALVE	18059   18081   16101
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F) OAT NEEDEF VALVE	18059   18081   16101
FLOAT NEEDLE VALVE AIR-LUEL FATIO SOLENOID	18059   18081   16101
FLOAT NEEDLE VALVE AIR-LUEL FATIO SOLENOID	18059   18081   16101
F: OAT NEED F YALVE AIR4 DEL FATIQ SOLEROIS	118059 18021 16101 18102
FLOAT NEEDLE VALVE AIR-LUEL FATIO SOLENOID	18059   18081   16101
F: OAT NEED F YALVE AIR4 DEL FATIQ SOLEROIS	118059 18021 16101 18102
F: OAT NEED F YALVE AIR4 DEL FATIQ SOLEROIS	18052   16061   16101   16102 
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PER OAT NEED F VALVE AIRA DEL RATIO SOLEROSO ACCOS EDIATOR PHIMP DASSI POT	18050 16021 16103 16102 16102 16150 1 16182 15183 16260 16262
F: OAT NEEDE VALVE AIRE UEL FATIO SOLENOS  ACOSCEDATOR PHWP	118059 118081 16101 18102 118150 118182 119183 16280 16280 16281 16813
PER OAT NEED F VALVE AIRA DEL RATIO SOLEROSO ACCOS EDIATOR PHIMP DASSI POT	18054   16051   16101   18102   18150     18183   15260   16262   16313   16331
PER OAT NEED F VALVE AIRA DEL RATIO SOLEROSO ACCOS EDIATOR PHIMP DASSI POT	18059 13021 16101 18102 18102 18183 19183 19260 19362 16313 16313 16331 16331
PERMET PALVE AIRA DEL PATIO SOLEROSO  ACCOS EDIATOR PHIMP  DASSI POT	18059 18081 16101 18102 18102 18183 19183 19280 19280 16281 16313 16281 16313 16281 16313
PER PALVE AIR OUL RATIO SOLEROS  ACCELEDATOR PIMAP  DASS POT  GM.  AIR CLEANER ASSY	18052   16051   16101   18102   18102   18182   19183   16260   16282   16313   16281   16281   16285   16365   1636
PER OAT NEED F VALVE ARREVEL FATIO SOLEROS  ACCELEDATOR PHMP  DASS POT  GM  AR CLEANER ASSY VACUUM MOTOR ASSY	18052   16061   16101   16102   16102   16103   16103   16262   16213   16313   16313   16313   16314   16455   16500   16510
PER OAT NEED F VALVE ARREGEL RATIO SOLEROSS  ACCES EDATOR PHMP  DASS POT  AR CLEANER ASSY VACUUM MOTOR ASSY OUE COLUMNIOTER TUBE	18059 18081 16101 18102 18102 18150 1 18150 1 18182 19183 18280 18280 18281 16381 16381 16381 16381 16381 16580 16500
PER OAT NEED F VALVE ARREVEL FATIO SOLEROS  ACCELEDATOR PHMP  DASS POT  GM  AR CLEANER ASSY VACUUM MOTOR ASSY	18052   16061   16101   16102   16102   16103   16103   16262   16213   16313   16313   16313   16314   16455   16500   16510

COMPONIES	0.81 <u>.C.</u>
AIR DUCT ASSY	16577
ALCONOR GENEROLE	16580
EUG. CUMO	17018
FUEL PUMP ELECTRIC FUEL PUMP	17012
FUEL PUMP CHECK VALVE	17014
FUEL PUMP GASKET	17099
FUEL CONNECTOR	17103
FUEL TANK	17201
TUBE ASSY FILLER	17220
	17222
	17251
	17271
	17310
FUEL CHECK VALVE	17330
O-RING	17342
O'BING	
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<u>i</u>	1 495 40
FILET RETHEN THRE	17510 17520
•	18010
	18021
PEDAL STOPPER BRACKET	
ACCELERATOR WIRE	18163
RETURN SPRING	18215
TORSION SHAFT ASSY	18300
SHAFT SUPPORT	18314
MH WATER TEMP SWITCH	22121
MIXTURE HEATING RELAY	22122 22880
WATER TEMP SENSOR	22675
-	22696
-	22698
-	23710
	23731
	28792
	28771
FUEL TANK SEMSOR	25090
	1 795 355 1
FRESH AIR DUCT	62860_
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NUTSEC INCRESSED.	14001
	-mmon + 14/1.
LOWER MANIFOLD COLL	CTOR   1401
LOWER MANIFGLD COLL	
FWHAUST OUTLE	14441
	14441 14441
EXHAUST OUTLET EXHAUST OUTLET COVE GASKET	14441 14441 14445
EXHAUST OUTLET EXHAUST OUTLET COVI GASKET HEAT INSULATOR	14440 14440 14440 14450
EXHAUST OUTLE EXHAUST OUTLET COVE GASKET HEAT INSULATOR INLET TUBE	16441 14441 1445 1445 14460
EXHAUST OUTLE EXHAUST OUTLET COVE GASKET HEAT INSULATOR INLET TUBE BILET TUBE GASKET	16440 14441 14245 1450 14460 14460
EXHAUST OUTLE EXHAUST OUTLET COVE GASKET HEAT INSULATOR INLET TUPE RUET TUPE GASKET EMERGENON RELIEF VA	16440 14441 14245 1450 14460 14460
EXHAUST OUTLE EXHAUST OUTLET COVE GASKET HEAT INSULATOR INLET TUBE RILET TUBE GASKET LEMERGENCY RELIEF W. RE CIRCULATION WALVE	14441 14441 1445 1446 1446 1446 14465
EXHAUST OUTLE EXHAUST OUTLET COVE GASKET HEAT INSULATOR INLET TUPE RUET TUPE GASKET EMERGENON RELIEF VA	16441    14461   14465   14460   14460   14460   14403   14404   14404   14404   14404
EXHAUST OUTLE EXHAUST OUTLET COVE GASKET HEAT INSULATOR INLET TUBE RILET TUBE GASKET EMERGENCY RELIEF W. RE GIRCULATION VALVE INTERCOOLER ASSY WATER PIPE OUTLET WATER PIPE INLET	14441 14441 14445 14450 14450 14460 14463 14403 14496 14498 14499
EXMAUST OUTLE EXHAUST OUTLET COVE GASKET HEAT INSULATOR INLET TUBE RILET TUBE GASKET EMERGENCY RELIEF W. RE CIRCUL ATION VALVE INTERCOOLER ASSY WATERIPE, OUTLE WATER PIPE, INLET HAMIFOLD CONNECTIO	1644P 14461 14461 14460 14460 14460 14465 VE 14463 14496 14496 14492 14493
EXHAUST OUTLE EXHAUST OUTLET COVE GASKET HEAT INSULATOR INLET TUBE FILET TUBE GASKET EMERGENCY RELIEF W. RE. CIRCULATION VALVS WATERPIPE, OUTLET WATER PIPE, INLET LAMIFOLD CONNECTOO DIE INLET TUBE ON INLET TUBE	16441 14441 1445 1445 14460 14460 14463 14493 14493 14498 14499 14493 14493
EXHAUST OUTLET EXHAUST OUTLET COVE GASKET HEAT INSULATOR INLET TUBE BILET TUBE GASKET EMERGENCY RELIEF WA RE-CIRCULATION VALVY WATERPIPE OUTLE WATER PIPE, INLET HAMIFOLD CONNECTO OUTMET TUBE CONNECTOR & GASKET	14441 14441 14445 1445 1445 14460 14460 14403 14496 14498 14499 3 14678 15190
EXHAUST OUTLE EXHAUST OUTLET COVE GASKET HEAT INSULATOR INLET TUBE FILET TUBE GASKET EMERGENCY RELIEF W. RE. CIRCULATION VALVS WATERPIPE, OUTLET WATER PIPE, INLET LAMIFOLD CONNECTOO DIE INLET TUBE ON INLET TUBE	16440 14461 14461 14460 14460 14460 14465 VE 14465 VE 14465 14498 14498 14498 14499 15192 15192
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EXHAUST OUTLET EXHAUST OUTLET COVE GASKET HEAT INSULATOR INLET TUBE BILET TUBE GASKET EMERGENCY RELIEF WA RE-CIRCULATION VALVY WATERPIPE OUTLE WATER PIPE, INLET HAMIFOLD CONNECTO OUTMET TUBE CONNECTOR & GASKET	14441   14445   14445   14460   14460   14460   14463   14463   14496   14496   14496   14497   15190   15190   15194
EXHAUST OUTLE EXHAUST OUTLET COVE GASKET HEAT INSULATOR INLET TUBE RILET TUBE GASKET EMERGENCY RELIEF, W. RE. CIRCULATION VALVE INTERCOOLER ASSY WATERIPE, OUTLE WATER IPE, INLET MANIFOLD CONNECTIC OIL INLET TUBE CONNECTOR & GASKET OIL OUTLET TUBE	14441 14441 14445 14465 14465 14465 14463 14496 14496 14499 15196 15196 15197 20712 20712 21049 22964
EXHAUST OUTLET EXHAUST OUTLET COVE GASKET HEAT INSULATOR INLET TUBE BILET TUBE GASKET EMERGENCY RELIEF WA RE-CIRCULATION VALVY WATERPIPE OUTLE WATER PIPE, INLET HAMIFOLD CONNECTO OUTMET TUBE CONNECTOR & GASKET	16440 14441 14460 14460 14460 14460 14490 14490 14490 14490 14490 14490 15197 15192 15194 15197 20711 20712 21049 22364
EXHAUST OUTLE EMHAUST OUTLET COVE GASKET HEAT INSULATOR, NUEST TUBE GASKET EMERGENOY RELIEF VAR RE GIRCULATION VALVE NITERCOOLER ASSY WATERPIPE, INLET MANIFOLD CONNECTOO OIL INLET TUBE CONNECTOR & GASKET OIL OUTLET TUBE BOOST SENSOR	14441 14441 14441 1445 1445 14465 14465 14465 14493 14496 14499 14499 15192 15194 15197 20711 20712 21049 22364

MAPONEN'	Pills	COMPONENT	P.M.C.	COMPONER	P.N.C.
OOR INSULATOR	74661	MAIN & PUEL PUMP RELAY	22697	•	
CONTROLLING		ORANK ANGLE SENSOR	23730		
		A.A.C. VALVE	23781		
TERNATOR BRACKET	11710	EFI RARNESS	24011		
TERNATOR ADJUSTING BALL	11715	MIXTURE HEATER RELAY	25231		
ERMO ELEMENT KIL	16991	PCV VALVI.	11810	·	Loones
	22020	EGR TUBE	14120		
ANSISTOR IGNITION UNIT	22022	EGR CONTROL VALVE	14710		
ANSISTOR (TRIG) UNIT	22100	EGR PASSAGE	14711	:	
TRIBUTOR	22105	EXHAUST TEMP SENSOR	1473C		
AFT	22105	BPT VALVE	14741	_	
LUCTOR		ALM UNIT CASE	14910	DIFFERENTIAL CASE 4WD	38546
VERIJOR WEIGHT	22127	A.I.V. TUBE	14821	SIDE GEAR 4WD	36547
TRIBUTOR PINION	22129		14823	SIDE GEAR THRUST WASHER	38548
STRIBUTOR CAN	22132	AIR INJECTION PIPE	14832	PINION MATE 4WD	38549
		AIR CONTROL VALVE	14835	PINION MATE THRUST WASHER	38550
		A.B. VALVE	14939	110011111111111111111111111111111111111	38551
		SERVICE POST-EVAP		•	38553
		AIR INJECTION VALVE	14864		38553
ATOR	22163	AUV. BOX	14880		
STRIBUTOR PROTECTOR	20172	THERMAL VACUUM VALVE	14890	••	
CUUM CONTROL	22301	SOV SOLENOID VALVE	14951		
NITION CONJEWR TRANSISTOR	22433	EPC VALVE	14953		
GHI TENSION CABLE	22450	EGR SOLENOID VALVE	14954		
	22460	VACUUM OUT SOLENOID	14955		
SISTOR	22465	ALIV SOLENOID VALVE	14956		
NITION COIL PROTECTOR	22622	FGR MIXTURE SOLENOIS	14956	The state of the s	
S COT VALVE	23100	SPARK DELAY VALVE	14958		
TERNATOR		FUEL CUT SOLENOID	16196		
TERNATOR ROTOR	60192	ENGINE REVOLUTION SWITCH	16767	REAR MAIN SEAL	1227
TERMATOR BEARING	23120	and the necocontact charge		FLYWHEEL ASSY	1231
TERNATOR PRUSELL HOLDER	22123		i	FLYWHEEL RING GEAF	1231
TERNATOR FULLEY	23150		1	FIXING BOD	1231
VOLTAGE REGULATOR	03216		1	DRIVE PLATE ASSY	1233
OD# 85"	23250		Lagace	AT COOLER BYPASS VALVE	2160
IAPTER MOTOR ASST	98300	EGR VACUUM CONTROL VALVE	12363	OL COOLER TUBE	2162
ars cot	23336	FIGR VACUUM CONTROL VALVE	22365	DIFFERENTIAL OIL OCIDER	2165
CAUTINE	23210	THROTTLE VALVE SWITCH	- 02620		2166
LUTOS PTAICK	23347	02 SENSOS	22690	DIFFERENTIAL OIL PUL P	
LDCCTQM GT48.	23545	REAR OXYGEN 92 SENSOR	22691	THERMAL SWITCH!	2166
TARTER SOLFNOE	23340	CRANC POSITION, SENSOR - RING GEAF	25733		
RUSE	20380	EGF CONTROL UNIT	25024		
	24110	FUEL SHUT OFFICLUTION SWITCH	28322	GROUR BREAKER	2433
WILEBA EUNTEURA ANCOE	54428	EGR RESERVOIR TANK	27085	O.D. CANCEL/POWER SWITCH SKIFT PATTERN SELECT SWITCH	2510 2510
POWER VALVE ASSY	14800	THE REPORT OF THE	******	TRANSFER RELAY	252
RIKUER VALVE SOLERVIJO VALVE 1567	14810 14817 14815		=1		7.50
GROEF VALVE SOLERGIO WAVE ISS OWART VALVE SOLENOID	14517	DRAIN FILIG 4WC	39164		1 202
ERDER VARYE SOLER (70 VALVE 198) OWAER VALVE SOLER ORF LPIC VALVE	14517	DRAIN P. UG 4WG PROPEL ER SHAFT	39164 37003		1 252
OKTÉR VALYE KÖLEKKALI MAYEKASÎ OYA FRIYA YE KÖLEKOÎ IPO YALYE PRES SURE REGILOONINO.	14517 14885 14880 14980	DRAIN FILIG 4WC	37003 37003 37010		202
ONTER VALVE SOLERATU VALVE ASS OWART VALVE SOLERON OF C VALVE RES SURE RESIL CONTROL FECT NO DOECT SON US.	14517 14885 14880 14960 16010	DRAIN P. UG 4WG PROPEL ER SHAFT	32164 37003 37010 37125		1 202
ONER WALE BOLEROUTEVE ASS OWNER WALVE SOLEROH FIC VALVE RESSURE PEOL COURTO FECTRO INDECTION INT FICTRO INDECTION INT	14517 14933 14950 15960 16940 16940	DRAREP LIG 4WG FROMELER SHAFT FROM PROMELLER SHAFT	39164 37000 37000 37125 39811		202
CONTRACTOR  CONTRA	14517 14855 14650 14660 16017 16017 18044	DRAM F. UG 4WE FROMELER SHAFT FROM PROMELLER SHAFT CHRIAL ASSY	37000 37000 37000 37125 37811 37821		1 202
CONTROL BY SECTION AND THE TASK OWNER WAS SOUTHOUT PROCESSOR RESIDENCE. PECHANICAL SOUTHO. PECHANICAL SOUTHO. PECHANICAL SOUTHAT PETHAL CHAMISER HITCHER SYNTCH HITCHER SYNTCH HITCHER SYNTCH HITCHER SYNTCH	14517 14855 14650 14660 16017 16017 18044 16118	DRAW F. US 4WS FROMELLER SHAFT FROMT PROMELLER SHAFT COMBUS, ASSY CENSER EFARING PRACKET COMPER SFARING	39164 37000 37000 37125 39811	!	1 202
COURT VALUE SO, ENVIOLENCE SONS PARTIES ONLE ROUNDE SONS FOR THE CONTROL OF THE SONS FOR THE CONTROL OF THE CON	14517 14883 14883 14983 14969 16017 16017 16044 16148 16135	DRAW F LICE AWE FROMELLER SHAFT FROME PROMELLER SHAFT CORREN ELARING BRACKET CORREN ELARING BRACKET CORREN ELARING BRACKET CORRER ELARING CORRER BEARING	37000 37000 37000 37125 37811 37821	!	1 202
CONTRACTOR  CONTRA	14532 14823 14822 14960 16017 16037 18644 16148 16178	DRAIN F. U.G. 4WG FROMELLER SHAFT FROME PROMELLER SHAFT JOHRIMAL ASSY CEMSER EF ARMS BRACKET CEMSER BE ARMS CEMSER BE ARMS CEMSER BE ARMS INSULATOR RING U "INJON SET	97104 37000 37010 37125 97511 37321 97522	!	1 202
CONTENT OF THE CONTEN	14512 14833 14833 14969 14043 16043 16044 16148 16135 16178 16178	DRAW P. UG 4WE PROPELLER SHAFT FRONT PROPELLER SHAFT (OHROW, ASSY CAMBER EF ARING PRACKET CENTER BE ARING CENTER BEARING SISLATOR RING A "NION SET DAME STAR BOLT	99104 37000 97010 97125 97911 97921 97922 38100	!	l co.
CONTRACTOR  CONTRA	14512 14833 14833 14969 16043 16043 16044 16048 16178 16178 16178	DRAIN F LIKE 4WE FROMELLER SHAFT FROME PROPELLER SHAFT COURNAL ASSY CONTER ELAKING PRACKET CENTER BE ARING CENTER BEARING INSULATOR RING & HINON SET DRAFE CARA BOLT FRAR HINON BEARING	\$5164 37600 87690 37195 37195 37611 37801 37801 38100 38100	BLEEDER (CLUTCH)	
COLD VALTED ENVIOLENCE  OWARE WASTE SOUTHOR  REF SUPE PERS, COURTED  REF SUPE PERS, COURTED  REF SUPE PERS, COURTED  REF SUPE PERS, COURTED  REF SUPE CHAMBER  REFULLE SWATCH  REFORD LE LAMABER  REFORD LE	145 YZ 148 Z 3	DRAW E JUS 4WE FROPEL ER SMAFT FRONT PROMELLER SMAFT CORRING ASSY OF MER BEHARING BRACKET CENTER SE ARING CENTER BEHARING INSULATOR RING E MINON SET DEAR SEA SINGUE FRONT PINION SEARING FRONT PINION SEARING	95104 97000 97000 97125 97611 97801 97801 98800 98100 99120	BLEEDER (CLUTCH) PUSS ROG	308
CHIEF WATER DE FEYO MART ASS  WATER WATER SOCI NOTE  THE WATER THE SORE RESI, CONTROL  THE WATER THE WATER THE WATER THE WATER THOUSE CHAMBER THOUSE CHAMBER THOUSE CHAMBER THOUSE CHAMBER THOUSE CHAMBER THOUSE CHAMBER THE CHAMBER THE SOLET CHAMBER	145 17 148 15 14	DRAW P. UG 4WE PROPELLER SHAFT FRONT PROPELLER SHAFT COMBINAL ASSY CAMBER SHARING PRACKET CENTER SHARING SHACKET CENTER SHARING SHACKET RING & PRIVON SET DRAW GRAN SHARING FRAN HUICH SEARING FRONT PRICE SEARING FRONT PRICE SEARING FRANCE SEARING FRANCE SEARING FRANCE SEARING FRANCE SEARING FRANCE SEARING	95164 97050 97050 97851 97851 97821 97822 98102 98102 98102 98102 98102	BLEEDER (OLUTON)	308
CHEET VALUE NO PREVIOUS NEW YORK ASSONATE AS SOUTH NOTE OF CHARLES NOW AND ASSONATE AS SOUTH NOTE OF CHARLES NOW AND ASSONATE AS SOUTH NOTE OF CHARLES NOW AND ASSONATE CHARLES NOW AS A SECTION OF CHARLES NOW AS A SECTION OF CHARLES NOW AS A SECTION OF CHARLES NOW AS A SECTION OF CHARLES NOW AS A SECTION OF CHARLES NOW AS A SECTION OF CHARLES NOW AS A SECTION OF CHARLES NOW AS A	14517 14825 14825 14930 14931 16932 16932 16142 16142 16142 16142 16142 16142 16142 16142 16142 16142 16143	DRAIN F LIKE 4W/C PROPELLER SHAFT FRONT PROPELLER SHAFT COMPAR, ASSY CENTER BEARING PRACKET CENTER BEARING PRACKET CENTER BEARING SULLATOR RING & PINON SET DRAFE SEAR BOLT REAR PHYCH BEARING FRONT PINON SEARING PROPEL BEARING PROPEL PROPEL BEARING SPACER	\$7104 \$7000 \$7040 \$7145 \$7511 \$7521 \$6100 \$8102 \$9120 \$9140 \$9140	BLEEDER (CLUTCH) PUSS ROG	303 300 300 300
COLD VALUE OF ENDOWING ASS ONATE BOUNDED POR VALUE RES SOME RES CONTROL LECTRO INSECTION UNIT POR VALUE RETURNED CHANNESS RETURNED CHANNESS RETURNED SWITCH LIBROTILE CHANNESS RETURNED SWITCH LIBROTILE CHANNESS RETURNED CHANNESS RES FICT LIBROTILE CHANNESS RES FICT LIBROTILE CHANNESS RES FICT LIBROTILE CHANNESS RES FICT LIBROTILE CHANNESS RES FICT LIBROTILE CHANNESS RES FICT LIBROTILE CHANNESS RES FICT LIBROTILE CHANNESS RES FICT LIBROTILE CHANNESS RES FICT LIBROTILE LIBRO	14517 14825 14825 14960 16045 16045 16046 16146 16146 16176 16176 16176 16176 16176 16176 16176 16176 16176 16176 16176 16176	DRAIN F LICE AWE FROMELLER SHAFT FORM PROMELLER SHAFT CORRING, ASSY CENTER BEARING PRACKET CORNER BEARING PRACKET CORNER BEARING INSULATOR RING J. PINION SET DRAIF GEAR BOLT FRAR PINION SEARING FROM PINION SEARING FROM PINION SEARING PRICH SEARING SPACER DEGE STINION OIL SEAR	\$5164 \$7000 \$7040 \$7195 \$7511 \$7521 \$7522 \$8102 \$8102 \$9165 \$9165 \$8159	BLEEDER (CLUTCH) PUSH ROS SLITICH BOOSTE	303 309 309 300 300 300 300
CONTRACTOR  CONTRA	145 (7) 146 (2)	DRAW PLUS 4WE PROPEL STREAM T FRONT PROPELLER SHAFT COMMAN ASSY OF MER BE ARING PRACKET CENTER BE ARING CENTER BEARING CENTER BEARING CENTER BEARING CENTER BEARING THIS OF THIS OF THE TH	89164 47803 87040 97145 97511 97521 88102 88102 88103 89166 88166 88166 98186 98186	BLEEDER /CLUTCH: PUSH ROG CLUTCH BUOGITES PUSH ROG	303 300 300 300 300 300 300
CONTRACTOR  CONTRA	14507 14507 14506 14506 14507 16507 16507 16508	DRAIN P. US 4WC PROPELLER SHAFT FRONT PROPELLER SHAFT COINNEL ASSY CENSER EF ARING PRACKET CONTER BE ARING CENTER BEARING SHACKET CENTER BEARING CENTER BEARING CENTER BEARING FRONT PRICE STAR BOLT REAR HINGL BEARING FRONT PRICE BEARING PRICE BEARING SPACER PRICE BEARING SPACER DRUE THICK OF, SEAL COMPARION FLANGE SIDE HANGE	\$9164 47000 87040 37125 97911 47921 47921 58102 49120 39140 39140 39163 38189 38189 38189	BLEEDER (CLUTCH): PUSH ROC CLUTCH BUOSTE: PUSH ROC CHECK VALVE ASSY	352   364   364
CONTO VALUE DO DEVIDO VERDE ASSOCIADO DE PROCESSO DE P	14517 4852 4852 14566 1600 1604 1604 1604 1604 1604 1604 1605 1606	DRAIN F LIKE 4WE FROME LER SHAFT FROME PROPELLER SHAFT CURRING, ASSY CLEMEN E HANNE PRACKET CENTER BE ARRING PRACKET CENTER BE ARRING INSULATOR RING & HINON SET DRESS CARA BOLT FRAR HUICH, BEARING FROME PINION, BEARING FROME PINION, SEARING PINION EARING SPACER DE VERTINGN OF, SEAR COMMARICH PLANGE SHOE P	\$5164 37000 37195 37195 37511 37521 37521 38102 39120 39140 38166 38169 38189 38189 38189 38180 38180	DLEEDER (OLUTCH) PUSH ROD CLUTCH BOOSTE PUSH ROD CHECK VALVE ASSY CLUTCH TUEE & HOUE	309 309 309 309 309 309 309
CONTRACTOR  CONTRA	14517 14817 14818 14005 14007 16017 16046 16118 16128 16128 16129 16	DRAW PLUS 4WE PROPEL STREAM T FRONT PROPELLER SHAFT COMMAN ASSY OF MER BE ARING PRACKET CENTER BE ARING CENTER BEARING CENTER BEARING CENTER BEARING CENTER BEARING CENTER BEARING CENTER BEARING FROM PRION SET DRAW GEARING FROM PRION SEARING FROM PRION SEARING FROM PRION SEARING FREIT BEARING SPACER PLUT BEARING SPACER PLUT BEARING NO. SEA COMMANCE FLANGE SIDE FLAN	89164 47803 87040 97145 97511 97521 88102 88102 88103 89126 98140 98166 88166 98169 98160	BLEEDER (CLUTCH) PUSH ROD CLUTCH BODSTE PUSH ROD CHECK VAME ASSO CLUTCH VIGE & 40 E CLUTCH VACUCAL HUSE	303 304 309 300 300 300 300 300 300 300 300 300
CONTROL FOR THE PROPERTY OF TH	14517 4862 4690 16017 16017 16017 16017 16018 16018 16019 16019 16019 16019 160000 160000 160000 160000 160000 160000 160000 160000 160	DRAW F. UG 4WC PROPELLER SHAFT FRONT PROPELLER SHAFT COMBINAL ASSY CAMER EF ARING CENTER BE ARING CENTER BE ARING CENTER BE ARING CENTER BEARING CENTER BEARING CENTER BEARING CENTER BEARING FRONT PRION SET DRAW CEARING PRICH BEARING PRICH BEARING PRICH BEARING PRICH BEARING COMMANION FLANGE COMMANION FLANGE SIDE STANGE SIDE FLANGE SIDE STANGE SIDE FLANGE SIDE STANGE SIDE STAN	\$9164 47000 87040 97125 97511 47521 47521 48102 48102 48102 39140	BLEEDER (CLUTCH) PUSH ROC GLUTCH BUOSTES PUSH ROC! CHECK VALVE ASSY CLUTCH VACUUSH HUSE CLUTCH VACUUSH HUSE CLUTCH COFFRAINK CAGLE CONVERTER BOL!	309 309 309 309 309 309 309
CONTRACTOR  CONTRA	14517 4852 1452 1452 1464 1604	DRAW PLUS 4WE PROPEL STREAM T FRONT PROPELLER SHAFT COMMAN ASSY OF MER BE ARING PRACKET CENTER BE ARING CENTER BEARING CENTER BEARING CENTER BEARING CENTER BEARING CENTER BEARING CENTER BEARING FROM PRION SET DRAW GEARING FROM PRION SEARING FROM PRION SEARING FROM PRION SEARING FREIT BEARING SPACER PLUT BEARING SPACER PLUT BEARING NO. SEA COMMANCE FLANGE SIDE FLAN	89164 47803 87040 97145 97511 97521 88102 88102 88103 89126 98140 98166 88166 98169 98160	BLEEDER (CLUTCH) PUSH ROC CLUTCH BOOSTE- PUSH ROC CHECK VALVE ASSY CLUTCH TUSE & FOLE CLUTCH VACAUM HUSE CLUTCH CREATING CASLE CONVERTER BOLL ALL CON BOLLWRIT	303 304 309 300 300 300 300 300 300 300 300 300
CONTRACTOR  CONTRA	14517 5620 16005 16007 16007 16007 16007 16008 160	DRAW F. UG 4WC PROPELLER SHAFT FRONT PROPELLER SHAFT COMBINAL ASSY CAMER EF ARING CENTER BE ARING CENTER BE ARING CENTER BE ARING CENTER BEARING CENTER BEARING CENTER BEARING CENTER BEARING FRONT PRION SET DRAW CEARING PRICH BEARING PRICH BEARING PRICH BEARING PRICH BEARING COMMANION FLANGE COMMANION FLANGE SIDE STANGE SIDE FLANGE SIDE STANGE SIDE FLANGE SIDE STANGE SIDE STAN	\$9164 \$7000 \$7000 \$7000 \$7195 \$7511 \$7522 \$8100 \$8100 \$9120 \$9130 \$9165 \$8189 \$9180 \$9	BLEEDER (CLUTCH) PUSH ROC CLITICH BOOSTE PUSH INCO CHECK VALVE ASSY CLUTCH TUBE 2 HOU E CLUTCH VACUUM HUSE CLUTCH OPERATING CABLE CONVERTER BOUT AN CONTROL UNIT	304 304 306 300 300 300 300 30 30 30 30 30 30 30 30
INCO VALTED SECTION AND ASSESSED SECTIONS SECTIONS SECTIONS SECTIONS SECTIONS SECTIONS SECTIONS SECTIONS SECTIONS SECTION SECT	14517 4862 54600 16017 16017 16017 16017 16017 16017 16017 16017 16017 16017 16017 16001 160	DRAW F. UG 4WC PROPELLER SHAFT FRONT PROPELLER SHAFT COMBINAL ASSY CAMER EF ARING CENTER BE ARING CENTER BE ARING CENTER BE ARING CENTER BEARING CENTER BEARING CENTER BEARING CENTER BEARING FRONT PRION SET DRAW CEARING PRICH BEARING PRICH BEARING PRICH BEARING PRICH BEARING COMMANION FLANGE COMMANION FLANGE SIDE STANGE SIDE FLANGE SIDE STANGE SIDE FLANGE SIDE STANGE SIDE STAN	\$9164 \$7000 \$7000 \$7000 \$7195 \$7511 \$7522 \$8100 \$8100 \$9120 \$9130 \$9165 \$8189 \$9180 \$9	BLEEDER (CLUTCH) PUSH ROC CLUTCH BOOSTE- PUSH ROC CHECK VALVE ASSY CLUTCH TUSE & FOLE CLUTCH VACAUM HUSE CLUTCH CREATING CASLE CONVERTER BOLL ALL CON BOLLWRIT	300 300 300 300 300 300 300 300 300 300
CONTENTS OF STATE OF STATE ASSOCIATED STATE OF S	14507 14507 14506 14607 16007 16007 16007 16008 16	DRAW F. UG 4WC PROPELLER SHAFT FRONT PROPELLER SHAFT COMBINAL ASSY CAMER EF ARING CENTER BE ARING CENTER BE ARING CENTER BE ARING CENTER BEARING CENTER BEARING CENTER BEARING CENTER BEARING FRONT PRION SET DRAW CEARING PRICH BEARING PRICH BEARING PRICH BEARING PRICH BEARING COMMANION FLANGE COMMANION FLANGE SIDE STANGE SIDE FLANGE SIDE STANGE SIDE FLANGE SIDE STANGE SIDE STAN	\$9164 \$7000 \$7000 \$7000 \$7195 \$7511 \$7522 \$8100 \$8100 \$9120 \$9130 \$9165 \$8189 \$9180 \$9	BLEEDER /CLUTCH: PUSH ROC GLITCH BUOSTE: PUSH ROC CHECK VALVE ASSY CLUTCH TUBE & HOLE CLUTCH VACUUM HUSE CLUTCH OFFENTING CASILE CONVERTER BOLT AN GON BOLL WRIT OU INDUCATOR SW TOH VACUUM MODUL ATT R	303 306 306 300 300 300 300 300 300 300
INCO VALTED SECTION AND ASSESSED SECTIONS SECTIONS SECTIONS SECTIONS SECTIONS SECTIONS SECTIONS SECTIONS SECTIONS SECTION SECT	14507 4863 5663 16047 16047 16047 16048 1604	DRAIN FLUS 4WC PROPELLER SHAFT FRONT PROPELLER SHAFT COURING, ASSY CEMER ELAKING PRACKET CEMER BE ARING CEMER BE ARING CEMER BEARING INSULATOR RING & HINON SET DRESS CAR BOLT REAR HOICH BEARING FRONT PINON BEARING FRONT PINON SEARING PINCH BEARING SPACER DEVERNION OF, SEAR COMPARION FLANGE SIDE ELANGE SIDE FLANGE AVAI DHEEPERTITAL GARRIER INOUSING DESERVITAL GARRIER AND REAR COVER GASKET	\$9164 \$7000 \$7040 \$7040 \$7185 \$7511 \$7522 \$8100 \$9120 \$9140 \$9146 \$9166 \$8159 \$0210 \$8200 \$8	BLEEDER /CLUTCH: PUSH ROC GLITCH BUOSTE: PUSH ROC CHECK VALVE ASSY CLUTCH TUBE & HOLE CLUTCH VACUUM HUSE CLUTCH OFFENTING CASILE CONVERTER BOLT AN GON BOLL WRIT OU INDUCATOR SW TOH VACUUM MODUL ATT R	303 306 306 300 300 300 300 300 300 300
INCE VALTED EVEN WARE ASS  WAS REAVER SOLENGE  PEC VALTE  PER VALT	14517 4861 5680 1690 16917 1694 1694 1694 1694 1694 1694 1696	DRAW PLUS 4WC PROPEL CRISHAFT FRONT PROPELLER SHAFT COURNEL ASSY CRISHER EF ARING CENTER BE ARING PRACKET CENTER BE ARING CENTER BE ARING RING BET DRAWE GEAR BOUT ECAR PHICH, BEARING FRONT PRINCH, BEARING PRICH BEARING SPACER PLUT BEARING SPACER DETYC FRINCH OF, SEAL COMPARION FLANGE SIDE ELANGE SIDE FLANGE SIDE FLANGE SIDE FLANGE SIDE FLANGE AND DETERMINE GARRIER BEOUSING- DETERMINE GARRIER BEOUSING- DETERMINE GARRIER BEOUSING- DETERMINE GARRIER STORE GARRIER SIDE RETAINER GARRIER SIDE RETAINER GARRIER SIDE RETAINER GARRIER SIDE RETAINER OFFING 4WD	\$5164 47007 87040 97040 97511 97501 97501 98102 98102 98103 98160 98160 98160 98160 98160 98160 98160 98160 98160 98160 98160 98160	BLEEDER /CLUTCH: PUSH ROC GLITCH BUOSTE: PUSH ROC CHECK VALVE ASSY CLUTCH TUBE & HOLE CLUTCH VACUUM HUSE CLUTCH OFFENTING CASILE CONVERTER BOLT AN GON BOLL WRIT OU INDUCATOR SW TOH VACUUM MODUL ATT R	303 306 306 300 300 300 300 300 300 300
INCE VALE BY SEVEN WAS ASSEMBLE POR VALE BY AND ASSEMBLE POR OPENING.  PER SUPER PEOL CONTRO.  PEOL VALE BY THE BY	14507 4862 14680 16047 16047 16046 160	DRAIN P. UG 4WC PROPELLER SHAFT FRONT PROPELLER SHAFT COIRDIN, ASSY CAMER BE ARRING BRACKET CENTER BE ARRING CENTER BE ARRING CENTER BE ARRING FRONT PRION SET DAME GEAR BOLT FEAR HAICH, BEARING FRONT PRION SETAING FRONT PRION DEARING PRICH BEARING SPACER DEVE THOM DE ARRING DEVE THOM OF A SHAFT SHOP FLANGE WAD DEFERENTIAL CARRIER MOUSING DESERBATIAL CARRIER AND REAR COVER GASKET  SIDE REVANER OFFICE 4WD REAR COVER GASKET	\$5164 \$7000 \$7000 \$7000 \$7000 \$7125 \$7511 \$7527 \$8100 \$9100 \$9160 \$8160 \$8160 \$8160 \$8160 \$8160 \$8160 \$8160 \$820	BLEEDER (CLUTCH) PUSH ROG GLUTCH BUOSTES PUSH ROG CHECK VALVE ASSY CLUTCH VACUUSH HUSE CLUTCH OFERATING CAGLE CONVERTER BOLT AUT GOT ROLL UNIT O BUNDOATOR SWITCH VACCIUM MODUL ATT R THROTTLE CABLE	308 309 309 309 309 309 309 31 31 31 31 31
INCE VALTED EVEN WARE ASS  WAS REAVER SOLENGE  PEC VALTE  PER VALT	14507 4865 5666 16067 1607	DRAIN FLUS 4WC PROPELLER SHAFT FRONT PROPELLER SHAFT COMBINE, ASSY CENTER BEARING PRACKET CONTER SE ARING CENTER BEARING SHACKET CENTER BEARING FRONT PINON SET DRAYE GEAR BOLT REAR HYDOL BEARING FRONT PINON SEARING FRONT PINON SEARING FRONT PINON SEARING FRONT PERSON PLANGE BEGGE SHACKE SIDE FLANGE AWD DEFERENTIAL GARRIER MYOUSING DEFERENTIAL GARRIER AWD REAR COVER GASKET  SIDE FLANGE GASKET  SIDE FLANGE OF THE SWC	89 104 47803 87040 97145 97511 97521 97522 98 102 99 102 99 103 99 104 99 166 99 189 99 189 99 189 98 20 98 20	DLEEDER (CLUTCH) PUSH ROC CLUTCH BOOSTE: PUSH ROC CHECK VALVE ASSY CLUTCH TUBE A FOLE CLUTCH COFERATING CABLE CONVERTER BOLT AN CONTROL UNIT. OCH INDICATOR SWITCH VACCHM MODULATER THROTTER CABLE COVERTER BOLT  OVERTER BELY	398   309   309   309   309   309   309   31   31   31   31
COURT WALT BO SECTO WATER ASS  OWART WAS THE SOUTH NOT  THE SUPER PERSON THE  PERSON THE SOUTH NOT  THE SUPER PERSON THE  PERSON THE SOUTH NOT  THE SUPER PERSON THE  PERSON THE CHAMBERS  THE CHAMBERS  THE CHAMBERS  THE SUPER PERSON THE  LASS THE  COLD STATE VALVE  PERSON THE CHAMBERS  THE PRIME CONTROL MODULE  THE CONTROL WAS PRIMED  CONTROL WAS PERSON  THE PRIME CONTROL  CONTROL WAS PERSON  THE THE PRIME CONTROL  CONTROL WAS PERSON  THE PRIME CONTROL  CONTROL WAS PERSON  THE PRIME CONTROL  CONTROL WAS PENSON  ARE TEMPERACURE SHANSON	14507 4862 14680 16047 16047 16046 160	DRAW PLUS 4WE PROPEL CRISHAFT FRONT PROMETER SHAFT COURNEL ASSY CRISHE BEARING PRACKET CENTER BEARING CENTER BEARING CENTER BEARING CENTER BEARING CENTER BEARING CENTER BEARING FRONT PRICE, BEARING FRONT PRICE, BEARING FRONT PRICE, BEARING FRONT PRICE, BEARING FRONT PRICE, SEARING FRONT PRICE, SEARING FRONT PRICE, SEARING FRONT PRICE, SEARING DEVERTION OF, SEAR COMPARICE FLANGE SIDE FLAN	\$5164 47603 87040 97145 97511 97511 97511 97511 97511 98102 98102 98102 98103 98160 98	BLEEDER (CLUTCH) PUSH ROC CLUTCH BUDSTE* PUSH ROC CHECK VALVE ASSN CLUTCH TUBE & *OU E CLUTCH VACUUM HUSE CLUTCH CPERATING CABLE CONVERTER BOAT EAT GON ROLLWIT OD INDOCATOR SW TCH VACUUM MODULATE R THROTTI F CABLE  OVI STEEL BELY CONVERTER HOUSI AG	300 300 300 300 300 300 300 30 30 30 30
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CONTROL SENSOR  CONTROL SENSOR	145 (1) (485) (485) (485) (486) (480) (481	DRAIN F. UK 4WC PROPELLER SHAFT FRONT PROPELLER SHAFT CUIRDY, ASSY CENSER BE ARING PRACKET CENSER BE ARING CENTER BEARING PRACKET CENSER BEARING FRONT PINON SET DAME STAR BOLT REAR HAIGH, BEARING PRICH BEARING SPACER DEVE FINON OIL SEAL COMPANION FLANGE SIDE I LANGE SIDE I LANGE SIDE I LANGE SIDE FLANGE WAD DIFFERENTIAL CARRIER HOUSING MESTAR COVER GASKET  SIDE REVAMER O-RING 4WD REAR COVER GASKET  SIDE REVAMER WAD DRAIN FLUS LTO SU IN DIFFERENTIAL ASSY	\$6104 \$7000 \$7000 \$7000 \$7000 \$7125 \$7511 \$7527 \$6102 \$6102 \$6102 \$6102 \$6103 \$6	BLEEDER (CLUTCH) PUSH ROC CLUTCH BOOSTE PUSH ROC CHECK VALVE ASSY CLUTCH TUBE & HOLE CLUTCH VACCUSH HUSE CLUTCH OPERATING CABLE CONVERTER BOAT AN COMPROLUMET OB INDOCATOR SW ICH VACCUM MODUL ATT R THEOTITIE CARLE CONVERTER HOUSI IG CONVERTER	398   309   309   309   309   309   309   31   31   31   31   31   31   31   31
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		CANCOLNIA (I)	ML.	convoluted/	ERS
		CONTROLS OF A DEADING	32203	RING GEAR	33115
(10)210.450		DRIVE GEAR BEARING	32203	BALL BEARING	33116
, e. estro-de-11	9400	ROLLER BEARING	32204	BALL BEARING (MAIN GEAR)	33116
RING JAUNG TRANS SECTION:	31352	SNAP RING	32211	Disc, Octobride Marie	
PUKIP GASKET	31366	COUNTERSHAF	32213	•	
ARING RETAINER ID SP.	31370	COUNTER GEAR	32213		
SACHS)	31381	INPUT SHAFT	32219	"	•
EW SUPPORT (4 SP)	31385	COUNTERSHAFT BEARING			
PANIVALVE COVER	31390	INPUT SHAFT BEARING	32219	- '	33124
DE COVER	31391	ROLLER BEARING	32219	-	33131
	31397	REVERSE COUNTER GEAR	32220		33131
49KET	31411	GEAR, 1ST SPEED	32230		33132
PUT SHAF"	31416	MAIN GEAR (1ST	32230	LOW SPEED GEAR	
TERMEDIATE SHAFT (4.52	31420	COUNTERSHAFT NUT	32236	FRONT DRIVE SPROCKET	33134
ONT PLANETARY CARRER		MAINSHAFT	32241	PRINCIPLE OF COURS	33135
EDLE BEARING	31426	MAINSHAFT LOCK NUT	32243		93142
AR PLANETARY CARRIES	3144(-	REVERSE GEAR	32245		33142
DINSECTING DRUM	31471		32245		
KE-WAY CLUTCH	31479		32250		
FWARD CLUTCH HUE	31476		32250	•	
ITPUT SPACT	81480	COME SUD SPEED	32250	•	
RKING GEAR/OX. D'STRIBUTOR	31486	GEAR, 3RD SPEED	102250	1	
ITPUT & IDLER GEAR SET	31493		•	ĺ	
AECT OLUTOR (4 SF:	31505			NICETY E DEADING	33152
DW OLUTCH (4 SP.	31505		Lacare	NEEDLE BEARING	33154
WOUT CLUTCH ASST	3151	<u> </u>	32270	COUPLING SLEEVE	33156
	31510	214 <u>214 W. V.</u> 81424	32271	COMPANION FLANGE	
ONT/REVIOLUTION ASSY	31510		32272	HABOID SINION	33158
VERSE CLUTCH DRUM		PILOT BEARING	32272		
EVERSE COUTCH ASSY	3151(				
EARLOUGTON ASSY	31540	•		T.	
EAR/HIGH OLUTION	91540		i	t .	
GHI CLUTOH DRUK	91841	REVERSE IDLER GEAR.	1 32282	SHIFT FORK SPRING	33169
GH CLUTCH ASS)	91545	REVERSE IDLER BEARING	32289	SHIFT SHAFT	33180
GRICHAR BITS	F 91690	RETAINING PIK	32293	SHIFT SHAFT OIL SEAL	33185
HWARD OLUT OF ASSY	21570		32310	TRANSFER CONTROL LEVER	39210
MURG POTESTS GRAWRO	81571	COUNTERSPACE GEAR (51H)	32810	CENTER CASE OIL SEAL	33216
T. PLANEYARY CARRIED S. C.	31580	MPUT GEAR (STH		TRANSFER SHIFT KNOE	33219
VERBOR CULT OF PUB	3155.1	OVERDRIVE COUNTER GEAL.	32010		33822
VERRON CONTO HIASSO	31595	MARCGEAR (STE)	32340	CROSS SHAFT	33940
	31615	MARISHAET GEAR (STEE BW-TE	32340	TRANSFER PROTECTOR	34103
AND SERVE	31633	QID ISTPI MAIN GEAR	32340	CONTROL ROD	34102
RAKE FAN	34646	C RING HOLDET	3235	CONTROL ROD (EWD)	
OCHE REVERSE BRAND		SYNCHRO ASSY	32601	ACTUATION ACCV	3/310
COM & REVELSE BIBLIS	3165-3	SYNCHRONIZER HUB	32601		34400
COUNTLATOR PISTON	30.67 :	SYRCHRO S. E IVE	32601		34410
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SHEEDOGETER HINOS ASSO	31705	ESERT SERMA	32003		34490
CONTROL VALUE ASEN	34705			LOWER CONTROL ROD	3444
CIL STRAINER	31728	•		CONTROL CABLE IRWE;	3444
G(WERNIX	1,31687	:		SUB TRANSMISSION ROD	3445
BOVERNOR SEAL TIME OAT	3187"		32609	SUB TRANSMISSION ROS	3445
SHEEDOMETER CASE & GEAR	31883	MSEAT	32609	DUST COVER HOLDER	3450
RWNGE SELECT LEYER	31947	SHIFTING INSERT	32655	DUST COVER (FWD-	3450
BASKET A DIPING	1.21910	REVERSE BAULE RING		CROSS SHAFT LEVER	3450
NHIBITOR SWITCH	1.31018	BAULK RING	32660	CROSS SHAFT ASSY	3452
VANCAC SHAFT	31921	BAUER RING (187	32680 -		3455
	31924	BLOOKER RING	32690	SUPPORT ROD (FWD)	3456
MANUAL PLATE ASS	31924	HARLIK RING KIND:	32681	-	
VACUUTY STAPHRAGET	31925	BLOCKER RING	32681	_	3458
D-PRING SEAT		BAULF RING (SRD.	32682	-	3469
REVOLUTION STRISON	019/35	BLOCKER RING	32682	-	3490
TUREINE REVOLUTION SENSOR	21038	BAULK RING OTH:	32683	-	3490
DOWESHIT SOLEKOUP	31941	BLOCKER RING	35683	<u></u>	349
COOPUR SOULNOTE	31947	BAULL RING (STH)	80694	CEVER SHAFT	3491
SHIRT SOLENOW A	21640	B: OCKER RING	32664	POSITION PLATE PIK	3491
SHE SOURCOILE	31944	SYNCHRO RING SEL fella	32659	CONTRO: LEVER	3493
OL CARCE SOLENOR	31945	SPEEDMASTER DRIVE GEAR	32701	RETURN SPRING	3405
LIST FRESSURE SOLENOIL	31946	SPEEDOMETER PHILON	32708	SELECTOR ROD/CONTROL CABLE	3493
CVERROY, OLUBER SOLENOID	3194"		32771	A/T CABLE	3493
DOZ TEUF SEUSOF	3195	CHECK BALL & SPRING	32171	N STORES	
(1997 TELET STURKÓF)	:		1	*	
				1	
		T.	•	1	
	<u>:-</u> -:			•	
INDICATOR SWITCH-MVE	32007	CONTROL LEVER	32941	L MOOID BININGS	1 381
NEUTRAL SWITCH	32008	CONTROL LEVER BOOT (RWD)	32841	HYPOID PINION	382
	32100	G-RING	32845	COMPANION FLANGE	383
TRANSMISSION: CASE	32103	OIL CONTROL SEAL	32958	TRANSFER BREATHER	
DRAIN PLUG	32104	CONTROL LEVER SOCKET (RWD)	32861	DIFFERENTIAL SIDE OIL SEAL	363
DRAIN PLUG		CONTROL LEVER BOOT (RWD)	32862	DIFFERENTIAL CASE	384
DRAIN FLUG (4WD)	32104	SHIFT KNOB	32865	SIDE GEAR	384
CIL GUIDE/GUTTER	32107	STRIKING ROD	32890	SIDE GEAR	384
TRANSMISSION FRONT COVER	32110	CONTROL SELECTOR ARM	32896	PINION MATE	384
FRONT COVER GASKET	32119		32895		38/
FRONT DOVER/O'L INFUT SEAL	32113	STRIKING LEVER	32917	<del>-</del>	384
CASE COVER	32120	STRIKING ROD PIN			384
REAR EXTENSION ASSY	39130	TRANSFER FRONT CASE	33102	- 	384
	32131	TRANSFER REAR CASE	33103	ALION DE ADIMO	38
BREATHER DE LE CATEMORION ON STAN	32136	TRANSFER CENTER CASE	33105	SIDE BEARING	38
REAR EXTENSION ON SUAL	32200	FRONT CASE O'L SEAL	33112		
MAIN DRIVE GEAS OUTPUT SHAST	32700	•		1	38
			i		

# TERRING SUSPEKSION, BRAKES

Last GRAN	PAR C.
VICTORUS COUPLING	38760
OLEVIS PR	1.46123
CLUTOH PEDAL BUSHING	46526
CUITOH PEDA:	46549
CONTCHIPEDAL RET SPRING	46586
VACUUM TANK	47100
VACUUM TANK ASSY	47110
CONTROL INDIGATOR	48476
ARREST OCK SYSTEM	48712

# TEERING, LISPENSION, RRAKES

		i
ADBUSTING BAR	131	945
AME - HICAS WARNING		020
LIDAS RELAY		247
SLIP RING	25	694
COSTS AND TELER	25	697_
STEERING SENSOR ASSY	28	
HIGHS CONTROL UNIF		505
RACK & PINIOR ASSY		50:
AFERRING GEAR ASSY		010
STEPRING GEAR HOUSING	148	
WEERING GEAR PINION		1025
PINON GEAR BEARING	1 48	
PROCESTAL		1025 1025
MORIT GEAR SEARING	-1-48	1080
I B. ER P. UG		8080
CTEER VOLLOWER, JOPE		B1CC
STEPRING RAC		B100
PROTOF SHAFT RORM OLL SEAL		8115
SCOTOR SHAFT EHARNS		9127
		6135
BECTOR SHAFT OF SCREWILLI SECTOR SHAFT OF SCAL		8187
STEERING WORM ASSY		915(
SECTOR SHART COVER		9201
TEERING GEAR BOXT	1	620.1
NEW OR SHAFT CONTRIGATION		5204
SEAR HOUSING		8210
HEAR HOUSING OM		8212
JEAR HOUSING ON SHALL	L	10034
40 IUSTER	. [	18231
CACK MOUNT CLARA:	1.	18350
		37034
MOK MOUNT INSULATION OTTERING WHEEL LOCK INT		49400
FOUR ME		48400
HORD CUTTOR ASSIG		48400
STEERING/ GEAD ARM		4850
STEERING GEAR LOCK NUT	_	48502
SIDE ROD APPY		45516
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1000000		48516
(JETER SOCIEC)		4850% 4850%
GEFFR SOLER : RASE: SOCHIT DUST DOVER.		
BUST DOVER.	-+	49522
SIOTED RUI		48530 49530
STEPRING TOLER ARG	-	49534
CHERRYS INLER FINNE BOLD		48535
STEERING IDLER JOCK NO	T	48560
FIDE ROD CUP	_	48552
CTEERING DAMPER	_	49911
OTFERING LCG/.		46700
TRANSFER GEAR ASSY		48760
Home. En derinne		46905
<del></del>		48820
		48521
MOKET TUBE		48860
UHPER JACKET TUBE		48861
STEERING COLUMN CLAMF		48960
JOINT COVER		4895
1,17 LEVER		48970
FOVER STEERING GEAR ASSEMBLY		49001
POWER STEERING PUMP		49110
MIMP RESERVOIR TANK		49115
PUMP CAP		49181
POWER STEERING GEAR ASSEMBLY		49900

COMPONER	PALC.
O-RING	49203
FINION O'L SEAL	49226
RACK PACKING	49297
STUB SHAFT SEAL	49365
RACK BUSHING	49522
	1,000

PRESSURE TUBE ASSY	49716
HOSE/TUBE-GEAR TO PUMP	49720
P/S TUBE HOSE	49722
POWER STEERING RETURN HOSE	49725
BREATHER TUBE	49731
POWER STEERING OIL SWITCH	49761
FLOW CONTROL VALVE	49810
	49836
	55154
	55705
	55710
<u> </u>	55740
	55741
	55742
•	55750
OUT OFF VALVE ASSY	55780

CUT OFF VALVE ASSY	55	786
Section of the section and		
SELECT SWITCH		140
SUSPENSION CONTROL UN!!		983
		965
<u>-</u>	28	1476
<del>-</del> -		7519
	3	75/2C
AXLE SHAFT		3167
REAR AXLE SHAFT		3162
REAR AXLE SHAFT NUT	3	3162
BREATHER		9352
DRAIN FLUG		9355
FRONT DRIVE SHAFT 4WD		8519
FROM DRIVE SHAP AVVI		9100
FRONT DRIVE SHAFT		
DRIVE SHAFT		9300
SPIDER ASSY		9025
DRIVE SHAFT BOOF		9655
SLIDE JOINT HOUSING		9714
SUIDE JOINT SPIDER	_	9720
KNUCKLE SPINDLE (FWD)		0014
KRUCKLE SPINDLE (REAR)		10014
KING PIN	- 4	0022
KING PIN BEARING	- 13	10030
STEERING STOFFER BOLT	1	1003F
STOPPER BOLT CAS	- I	40039
KNUCKLE ARM	- 1	40052
BUILD DOVE STIEL BOOTS		40088
DRIVE SHAFT BOOT	1	40088
		40110
UPPER BALL JOINT		40160
LOWER BALL JOINT		40173
LOWER BALL JOINT SEAT		46201
FRONT WHEEL HUS		40213
DRIVE SHAFT SEARING 4WD		
FRONT WHEEL BEARING		40015
FRONT HUB BOLT		40000
GREAST SEA.		40232
FREE RUMMING HUE AV/D		40250
DRIVE CLUTCH GEAR, 4WD		40252
LOCK NUT		40262
BEAK:REAR AXLE		43011
HOUSING RR AXLE		43018
BUSHING ASSYAXLE HOUSING		43052
REAR WHEEL HUB		43204
REAR AXLE COMPANION FLANGE	j	43218
REAR AXLE BEARING		43215
REAR HUB BOLT		13222
SEAL, GREASE, RR HUE		43232
REAR AXLE OIL SEAL		43252
LOCK NUT		43262
FRONT COIL SPRING (STRUE)		54010
FRONT COLE SERVING NOTICE		54010
		54010
FRONT LEAF SPRING		
FRONT TORSION BAR		
FRONT TORSION BAR SERING SEAT		
FRONT TORSION BAR SPRING SEAT BOUND BUMPER		54030
FRONT TORSION BAR SPRING SEAT BOUND BUMPER REBOUND BUMPER		54050 54053
FRONT TORSION BAR SPRING SEAT BOUND BUMPER REBOUND BUMPER STRUT DUST COVER		54050 54053 54055
Front Tonsion Bar Spring Seat Bound Bumper Rebound Bumper Strut Dust Cover Strut Dust Cover Strut Dust Seal		54050 54053 54055 54058
FRONT TORSION BAR SPRING SEAT BOUND BUMPER REBOUND BUMPER STRUT DUST COVER		54050 54055 54055 54056
FRONT TONSION BAR SERING SEAT BOUND BUMPER REBOUND BUMPER STRUT DUST COVER STRUT DUST SEAL TORQUE ARM ANCHOR NRM		54050 54055 54055 54055 54050 54210
FRONT TONSION BAR SERING SEAT BOUND BUMPER REBOUND BUMPER STRUT DUST COVER STRUT DUST SEAL TORQUE ARM ANCHOR NRM		54036 54050 54055 54055 54050 54080 54210
FRONT TOTSTON BAR SERING SEAT BOUND BUMPER REBOUND BUMPER STRUT DUST COVER STRUT DUST SEAL TORGUE ARM		54050 54055 54055 54055 54050 54210

COMPORERS	P.N.(
STRUT INSULATOR	54320
STRUT BEARING	54325
REBUIND STOPPER	54342
i	
LINK SPINDLE	54419
LOWER LINE COUNTY F	5//10

LINK SPINDLE	54419
LOWER LINK SPINDLE	54419
TENSION ROD	54470
TENSION/COMPRESSION ROD	54471
BUSHING	54476
TENSION ROD BUSHING	54476
TENSION ROD BRACKET	54480
TRANSVERSE LINK GUSSETT	54499

UPPER LINK BRACKET LOWER LINK

TRANSVERSE LINK	54529
UPPER UNA	54533
0/12/2007	54535
	54536
	54590
	54611
	54614
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BRACKET	55015
17 April 1777 • 2 877	55019
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REAR SPRING (LEAF)	55020
TORSION BAP	55020
LIPPER LINK	59023

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55130

SPRING SHACKLE	55220
REAR SPRING PIN	55225
n teang garage tak tak ta	55226
	85227
	55940
	85240
	55940
	55241
Fig. 12. 13. 13. 13. 13. 13. 13. 13. 13. 13. 13	55243
SPRING CUE	55247

REAR ARM ASSY	55502
ANCHOR ARM	55520
PARALLEL ROD BOLT	55524

continuet	PARK.	COMPONENT	P.H.C.	COMPONENT	P.E.C.
COMPORER	55525	•		J	25370
ANOMOR ARM SLEEVE	55530			1	25384
REAR ARM BRACKE!			,		25394
ORSION BAR STOPPER	55535 55546				25400
SPRING SEAT STAY	55743			the second second	25401
BUSHING			1		25402
INK DAMPER	56223			FUSE BLOCK	25410
REAR STABILIZER	56230	•	Ì		25411
CONNECT ROD BUSHING	56231		İ		25505
BRACKET-RR STABILIZER	56233	—	artin ki	•	25506
MOUNTING BRACKET BUSHING	56943	The Control of the Co	A	· -	26520
		franchischen Schille, E. M. D. N. D. N. D. V.	-, - \$4 eere-		
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ABS MOTOR RELAY	25187		18930		
STOP LAKE SWITCH	25320	ASCD O.D. CANCEL SWITCH	24010		- '
HAND BRAKE CONTROL	36010		24010		• •
PARKING BRAKE SWITCH	10001				;
RATCHET NAIL	36320	_	24013		•
HAND BRAKE STEM	36328	BODY HARNESS	24014		•
PARKING BRAKE RELEASE ROD	36027	TAIL HARNESS	24015	TOANGUITTEE	25695
HAND BRAKE BRACKET	36328	CHASSIS HARNESS	24016	TRANSMITTER	25696
HAND BRAKE GUIDE	36325	CONSOLE HARNESS	24030	RECEIVER	25720
	36337	ENGINE SUB-HARNESS	24077		25750
HAND BRAKE SPRING	36332	TAIL GATE HARNESS	24145		
HAND BRAKE CONTROL LEVER YOU'S	36872	ROOM LAMP HARNESS	24160	_	25752
HAND BRAKE LEVER		FUSIBLE LINK	24161	HAZARD SWITCH	25980
CLEVIS PIN (HAND BRAKE:	36381	AIR BAG HARNESS	24170		
FRONT CABLE	36407	DOOR HARNESS	24239		i
OFNITER LEVER BRACKE)	36421		24320		
ADJUSTER NUT	3643"	REAR WINDOW DEFROSTER	24328		
REAR CABLE	36450	DEFROSTER WIRING	24325		•
CROSS CABLE	36451	CIRCUIT BREAKER			
REAR CABLE/ROF	96450	VOU METER	24822		
CENTER LÉVES	351.10	DIGITAL TEMP METER ASSY	24835		
	36619	GAUGE ASSEMBLY	24840		
EOUALIZER	367.25	SPEEDOMETER-	24850		Locord
HANCER STHAP/SWOKE ARE:	36525	TACHOME (FR	24855	HEADLAWP ASSY	26023
SWING ARM		FUEL GAUGE	24860		26120
OLEVIS & PIR HAMD BRAKE.	88598	OIL PRESSURE GAUGE	24670		26160
RETURN SERING	35545		24875		26162
REAR CASE ADDISTED	38545	ODOMETER/TRIP METER	24830	HORN	26310
CAMPER YOKS	41025	COOLANT TEMP GAUGE	24941	WARNING CHIME/BUZZER	26350
FOLG DOWN PIL	41045	HEAD-UF DISPLAY URL	1 25021	KEYLESS ENTRY BUZZER	26352
EVOS PIN	4104	SECURITY INDICATOR LAMP		WIPER ARM	26380
ALTISOUSAY SPRING	41085	PRINTED CIRCUS	25030	REAR WISER ARM	26390
	43060	Dr. St.	25041	ROOMAUGGAGE LAMP	26410
C.7	41110		25050	ROOM/EUGGAGE LAND	26410
FRONT CALIFER	41196		25065		
CALIFER SEAL & PISTON	41:51	TAIL GATE SWITCH	25141		26420
FROM BARRLE PLANT		LIGHTING/COMBO SATTCH	25160	_	26430
REAR CALIFER	44010	RETRACTABLE HEADLAMP SWITCH:	28195		2644
PACK PLATE	44090	RELAY- TAIL GATE RELEAST	25292		2645
CALIPER BOON	84(00)	HEADI AMP RELAY	25203		2651
FC(D/DOWN/PPI	44(440		25204	REVERSE LAMP	2654
EXTENSION LINE	3/078	HEAR DEFROST RELAY	1201		2655
ANT ARTICE PIRC	240B		į		2655
HARD BRAKE CONTROL LVK YORK	44085		1		2656
REAR SHAKE RETURN OF KING	44090		1		2659
TOGGLE LEVER	44095		1		2738
REAR WHEEL CYLING R	46107		ļ	CLOCK	2741
	44118			TEE TUES	274
LEVER ASSY	4412	RELAN—FOG LAUS	25209	WASHER NOZZLE	274
FISTOR & SEA.	431	ASOD RELAY	26234	REAR WASHER NOZZLE	
RESE BAFFLE FLATE	44180	STORY DEED WITH	25038	WASHER TUBE	274
ANOHON - PARKING LISTER	44700		İ	REAR WASHER TUBE	274
ALCUSTER AS 5%			ļ	WIPER WASHER TANK.	274
MASTER OSLINUE	46010		1	DEAD WARHER TANK	274
OL RESERVOR COF	460%		i	:	
RESERVOIR SEAL	400/1:	POLITOCI POLAV	1 35258		
LEDEL MIDICIATOR	46(-45	CLUTCH RELAY	25259		
PISTON ASSY	46060				
SHAP RING	46082		25259		
FLUID RESERVOR:	40081		25261		
FLUIT, STRAINER	48092		25262		1 278
	40123	ASOD HOLD RELAY	25264		28
CLEVS PR	46264	SWITCH KNOB	25287		
BRAKE DIPE		HEADLAMP DAYTIME RELAY	25269		28
CONNECTOR	46310	NAV: SPEAKER RELAY	25273		28
OPALOAD SENSING VALVE	46400	DELAY WAS D	25276		. 28
BRAKE MASTER CY, INDEA BRACKS	4651:	Design Street	,		26
PEDAL STOPPER	46518			·	2.8
BRAKE PEDAL	48520				28
BRASE PEDAL BUSHING	46525				. 28
BRAKE FULGRUM SHAFT	46500	Ĭ			25
	46580				
PEDAL SHIFT SLEEVE		GIGARETTE LIGHTER	25330	]	26
BRAKE PEDAL SPRING	48585	REAR DEFROST SWITCH	25340	_	28
BRAKE BOOSTER	47210	REAR DEPROOF GARGOT	25360	7 —	28
BRAKE DOOSTER SPACER	47211	4	25361	1	2
BRAKE BOOSTER CONNECTOR	1 47475	1	25363	1	28
	1.79.494	1	20303	-1	21
VACUUM TUBS	4747t:		25364	l .	

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			1975 7	CONTORES	P.M.C.
7.10% (BEE)	PMI	COMPUBLIES.	27415	MIRROR HEAT SWITCH	25580
CERIOR LAMP TIMES	28450	CASE ASSEMBLY	27430	AIR GUIDE	41182
JENKA TRASH	28499			HOOD HINGE	65400
DY CONTROL LAN MODULE.	28492		27430	HOOD STAY	65470
CONTROL UND	28500		27562	HOOD SIM	65601
	1.28510		27621	_	65620
FER RELAY	28515		27823		73662
WER WINDOW AMPLIFIES	28540		27695		73670
NAROL UNIT - SUDE DOCK	28550	·	27630	. –	73678
RE CONTROL UNIT	28570		27631		
HING CONTROL			27640	SUN ROOF MOTOR	73685
	28578	LOW PRESSURE SWITCH	27646	SUN ROOF STRIKER	73812
	2853	CONDENSOR	27650		73820
_	28592		27651	_	73860
	198500	CONDENSOR FAN & MOTOR	27655	_	73960
<u> </u>	28594	FAST IDLE DIAPHRAGM	27659		74830
	28595	SCLENOID VALVE			76730
AR WIPER MOTOR	28710	SUCTION THROTTLE VALVE	27660	~	76B29
ASHER MOTOR	28765	SWITCH—REAR A/C	27665	<del>-</del>	76970
	28763			ļ	77790
LAR WASHER MOTOR	28810			'	77798
IPER MOTOR	28820		1		
CERMITIANT WIPER AME		COOLER PIPE	27677		78402
PER MOTOR ARV	28840	JOINT CONNECTOR	27680		
YPER CONNECTING ROT	28800	JOHN CONTENTO	27685		
(VOT ASS)	26870		27700		
SOD SPEED SENSOR	28940		27705	DOOR STOPPER LINK	1 80430
TOTLERATION SENSOR ASSY	47930			FRONT LOCK	80502
SNEION KEY LAMP ASS	48470		27702	10011 2000	
ONITION SWITCH	48760		27703		
	65686		27704		
OOD SWILCH	80580			!	
SOOR LOCK ACTUATOR		SENSOR GRALE		1	
PYBOARD	8.564	FAN CONTROL AMPLICATION	, [		
HORE REGULATOR MOTOR	1 80736	CAST STANDARDS AND PRINCE.	27723		
TEAN RESULTATION MOTOR	8,72		27727		
THE BIDE WINDOW/ NOTUS	6.25/00	-	27730		
TOTAL CANADA SANTONIA PROMINSIACIO	EDER 180601				
TOO WOULD FURE	92256	_	27722		
		BALEVEL MOTOR ACTUATOR	27738		
			27733		
	11074		27749		
777 PH 80% BLACK	11028		27741		
1 <u>191(70L16)</u>		MAGNETIC CLUTON	27745		
th Ethochill A REVOCE.	11926	SNAP RING	27744		
THE SHEATER CORDEN.	25507	Siede id CS	27747		
CLOWER MOTOR FETAL	25302		27748		
NAMES RELATED AS	28544		27749		
6.0 801.0	25218		27750		
F. C. D. Alt francis of Centre, Device C	25.024	ASPIRATOR FAN			
PICAR: A TO RELEAV	1.55095	AMPIENT SENSOF	27755	<del></del>	1 825
	25,946	SUNLOAD SENSOR AMPLIFIER	27764	OR	825
TULINOTORIESTA	26.257	SHIFT ACTUATOR VALVE	27765	-06	825
MAX COLD DOOR RELAC	25,714	SOLENOID VALVE SET	27770		625
DEAD MENTED BELVI.	27900	OCSITED VENT DUCT	27860	<del></del>	
SERVED UNIT		DEAD HEATER GREVE	27913	MOTOR - BACK DOOR OPEN/CLOS	SE 825
SCIAN HEATER COST	27013	TOTAL TELEVISION OF THE PERSON	27950	EDCK KNOS	825
REAR HEATER MOTOR:	57014	- 시 는 ##################################	28520	REAR OUTSIDE HARDLE	898
HEATEN & A/C CONTROL	27(30	REAR HEAVER GRELE	96605		825
W/CURM SELFCTOR VALVE	1 2702	<u></u>		1	
C.C. CONTROL	27021	<u>2011</u>	:		
CVR HE MER	27035	VALV	 		
HARRESS	2708	SUPER HEAT SWITCH	92310		
a C SWITCH	29041	THERMAL PROTECTOR	[ 92310	_	83
PLOWER CASE/HOUSING	27065	ACCELERATION OUT THEEK	92320	5	83
	77050	SUPER HEAT TIMEN	92831	<u></u>	83
F, CV. R MOTORCA FASE	7707	REAR HEATER HOSE	92420		
GLATER CONSECTOR	27077	REAR HEATER TUBL	99433	OUTSIDE HANDLE	83
EGTED SWITCH RESISTOR		N. Maria Cara Denda	\$2488	INSIDE HANDLE	83
ACCUSA ACTUATOR	27085	-	97450	REGULATOR WIRE	83
VECUUM TABL	22084	1	92490		- 80
WOULD MALE COOP	2705.0		92741	_	83
VASSUUM OHEON VALVE	27094				8-
REATER CORE	27111	COMPRESSOR REV. SENSOR	92255	LID OPENER LEVER.	18
HEATER COCK	27 i 10	and an armore a com-		(II) OPENER CABLE	8
CONTROL CABL!	27184	ELGATIAN ES		GO OPENER ORDER	8
	27141	The state of the s			8
MODE ACTUATOR ASSA	27150	a gradient to the control of the	en)		8
PLOWER COUTROL AMPLIFIES	27151	- HERRESTON	}• <b>\</b> .	_ <del></del>	
CERTER DEFROST DUCT					8
RDE DEFROST (MO)	27152	CCARTRICH	J. COLLAR	© 1	
LOOR NO2ZLL	27167		ON KIND OF STREET	West .	
PEAR COOLING CASE	27172				·· · · · ·
TEATER DUCK	27173				-
DUCT AIR DUTLE?	27175	· · · · · · · · · · · · · · · · · · ·		٦	-
	27178		18110	_	-1
REAR HEATER RESISTOR		<del></del>	18121	ا	
HE RMISTOR	27322		24162		<u>[1</u>
THERMO CONTROL UNIT	27330		25191	1 5. 35. 1900 f	
REAR B) OWER MOTOR	27375	<u> </u>		THE WOOD OF WAR	
FAIR IMPELLER	27385	SUIL ROOF RELAY	25192		1
	27410		25200		-··· i
ELVE FAYBORYTOR					
REAR EVAPORATOR  USAR AIC RIGH TUBE ASSY	27413-		25390 25570		

COMPROPERT	PMS.
BODY SOMO HARNESS	2E376
	28555
	28570
	66550
DEPROSTER GRILLE	68742
SIDE DEFROSTER GRILLE	68745
CENTER VEIG NOZZLE	68790
SUN ROOF LOOK	73520
MOTOR - STORAGE L'D OPENER	64472
RECEIVING SWITCH	86401
SENSOR - PRESSURE DETECTION	86509
PASSIVE BUCKLE ASSY	9667B
SEAT BELT POWER UNG	86910
SEAT BELT SLIDE ASSY	B0920
SEAT BELL LIMIT SWITCE	86970
SEAT BELT LIMIT SWITCH	B6980
SWITCH SEAT SLIDE	88982
SIDE AIRBAG HARNESS	E7020
BACK VIBRATOR PLATE	87060
CUSHION VIBRATOR PLATE	87060
SUBE, LIFT SWITCH IPWR/SEAT;	1 67352
FRE SEAT LIMIT SWITCH	87504
	87652
AR PUME	87653
SLIDE ASSY (FV/R/SEAT:	87654
LIFT ASSY (PWR/SEAF-	E8201
SELT SWIVEL ASSIV	88350
OND SEAT BACK HINGL	8846
REAR RECLINING DEVICE ASSY	88503
2NO SEAT SUIDE	1.68500
SUDE ASSA - SRD <b>S</b> EAT	88000
REAR SEALBACK LOCK	8950
REAR SEAT BACK STRIKE!	83993
BAD SSAT HIMBE ASS."	1 8994
SEAL LOOK VESA	99941
LCOK ASSY-9KD SEAT	8940
REQUINING DEVICE ASS	9000
RAIL ASSY - BRD SEAT	966
AIT BANGS PUBLICATION	
7.58 ST AIRBAG MODULE	985
ARBAG MODUT	1 9552
SENSOR FLARS SOLD FROM TO MAKE	9858
SIDE AIREAG MUDULE ASS	9881
ARBAG ON/OFF SWJOE	9894
ARBAG OR/OFF SWITCH HARKERS	9564
MODULE FIRST LAW BIG-MESS, DELECTION	9895

VR.S. ELECTRONIO MODULE	5A600
V.S.S. STATUS PARIST.	AASOL
V.S.S. HARRESSS	ZC5AA
V.S.S. PIN SWITC:	AA603
VS S. F. F.CTRONIC MODULE	AA700

BOW ASSY #	K[951]
BOV: 7.885 =4	K2031
50W ASS) #0	107036
BOW ASSY AL	K2050
FP1 DOOR GUDE LOCATOR RECEIVES	10252
REAST VIEV/ M/BROS	K2575
TOP STACE CONTROL SK-TCF	K3080
DEOK LO GAS STRU	K6185
TOP LOGIO RELAYBUNTIFA	183253
TOF MECHANISM CLAUP #85°	K361-8
REFORDE WINDOW SWITCHHELE, FAIL DOUGGLOS	K8412
PIN/SECONDARY PIN	K8204
DECK UD HYGE ASSN	Keess
<u>×</u>	

K8048
K8049
K8097
K8098
25200
25211
25219
25213
25221
25222
25313
25365
25366
25367
25383
25385

COMPONEDS	P.M.C.
SWITCH - ROOF OPENER	25465
THEFT WARNING PIN SWITCH	69542
	73903
	76871
· <del>-</del>	76874
_	76880
FUEL LID ACTUATOR	78852
RR PARCEL SHELF BRACKET ASSY	79926
GUIDE PIN	80520
PIN RECEIVER	80524
MOTOR - STORAGE LID OPENER	84472
SWITCH - STORAGE LID STOP	84480
CHATTER COLOR	84680
•	89130
	90552
	97004
	97012

		- 1
LATCH - ROOF FRPN!	[ 9	70B8
STAY - REAR HATCH	9	7089
LOCK ASSY, REAR	9	7090
REAR LOCK STRIKER PIN	g	7092
ACTO E COURCE	9	7093
	ć	7094
	9	17097
	Ş	7100
RAIL ASSY, CENTER	11.13	7106
RAIL ASSY, REAF		37112
UNK ASSY, BALANCE	19	07120
MOTOR/RAIL - REAR HATCH		7125
LINK, CONTROL	!	97133
TOP STACK FOLDING BRACKET		97142
BRACKET - FOLDING ROOF FRAT, MOUNTAINS		97143
BRACKET - FOLDING ROOF REAR MOUNTING		97145
BALANCE SPRING		97146
		97155
	Ĺ	97164
		97167
-		97179
		97177
		97178
		97179
		97180
<u>—</u> .		97184
CENTER RAIL SHIM		97188
HINGE ASSY, STORAGE LID		97249
BAE, STORAGE LID		97245
SHIM - STORAGE LID FINGE		97243
DOVETALL ASSY, STORAGE UD		97244
RECEIVER, DOVETAL		97246
SPRING, STOYAGE HIS LOWER		97250
ROLLER ASSY, STORAGE LID		97254
GUIDE RAIL ASSY		97256
DOVETAL BOLL ASSY		97255
LOCK ASSY, STORAGE LED		97260
		-
		-
		-
		-
		-
		_

SCREEN - REAR

# CONFIDENTIAL ATTACHMENT F

Engineering Design and Development

Design Report No. Issue date		KC2-W-253	<u></u>			
		'01.11.20		1		
	GPE	Manager	GM			
Lighton	111	Hashimoto	NA	N		
Title	Drawing issue of casted 17 and 18 inch wheels for Hayes Lemmerz for Slot					
Contents	s 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					
1	Drum fatigue:OK by Nissan test group					
	After 90	90deg impact moment fatigue. OK by Missain cost 8				
Perpose	New wheel development					

Design Report No.		KC2-W-258	<u> </u>	1	
Issue date		01.12.14			
	GPE	Manager	GM		
L1161100.	<b>#</b> 1	Ueshirnoto	NA		
	Takellaka	Takenaka Hashimoto NA To change of rear rim width for 18inch forged wheels			
Title	To change of real film Wider.				
Contents	Rim width from 8JJ to 8.5JJ				
_	Schedule of development				
Perpose	Improvement of handling performance				

Design Report No.		KC2-W-288		1	
Issue date		'02.2.27	<u> </u>	1	
Engineer	GPE	Manager	GM	<u>.</u>	
Horiuchi		Hashimoto .	NA	N	
Title	Drawing is	Drawing issue of casted 17 and 18 inch wheels for Hayes Lemmerz for Slot			
Contents	<del></del> _				
Perpose		eel developme	nt		

	GPE	KC2-W-289 '02.2.28 Manager Hashimoto	GM NA	N PA	.VS	
Title	Drawing is	sue of forged 	18 inch	wheels for RA		
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 whe	New wheel development				

Design Re	Design Report No.			,				
Issue date		'02.5.31						
	GPE	Manager	GM					
	Takanaka	Hashimoto	NA	N				
Title	Drawing issue of casted 17 and 18 inch wheels for							
Contents	Hayes Lemmerz made in Thiland							
Perpose	Hayes's r	equest		Hayes's request				

Design Re	Design Report No.						
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 whee	New wheel development					

Design Report No. Issue date		KDT-W-074 '02.8.28				
	GPE	Manager	GM			
Horiuchi	Takenaka	Hashimoto	NA	N		
Title	1.	sue of casted	118 inc	h wheels for Hayes		
	Lemmerz					
Contents		N				
	>Mounting face diameter changed					
Perpose	Appearance of brake rotor					

Design Re	•	KDT-W-081		7		
Issue date	<u></u>	'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 Re	port No.	XJ2-W-098				
Issue date	·	N"06.9.26	1"06.12.27			
Engineer	GPE	Manager	GM			
Horiuchi	Takenaka	Saeki	NA	N		
Horiuchi	Takenaka	Saeki	NA	1		
Title	To change	of pretreatm	ent of paint	to 6 chror	n free for	
	forged who	eels made by l	RAYS			
Contents	N					
	Test repor	t from Meteri	al groupe ir	Nissan: Ol	K	
	Test repor	t from RAYS:	OK			
•	(SST,CCT	,SWOM,Chemi	cal,Paint th	nickness,eta	e)	
	To change Part No.					
	1					
	Drawing issue					
Perpose	Environment					

F-175

## **CONFIDENTIAL ATTACHMENT G1**

**Engineering Specifications and Requirements** 

Design Re							
Issue date	<u> </u>	'01.11.6	<u> </u>				
Engineer	GPE	Manager	GM				
Horiuchi	Takenaka	Hashimoto	NA	N			
Title	Spec Tender of new forged 18 inch wheels to RAYS						
Contents	N Developme	N Development shedule					
Perpose	New wheel development						

Design Re	-	KDT-W-019				
Issue date	<u> </u>	'02.5.15				
Engineer	GPE	Manager	GM			
Horiuchi	Takenaka	Hashimoto	NA	N		
Title	To add ap	perrance spe	cificatio	n for v	wheels made by	
	Hayes Ler	nmerz				
Contents	N					
	To add ap	pearance spe	cificatio	on NES	S C5058	
	ĺ					
Perpose	Clarify app	Clarify appearance quality specifications				

G-4

Design Re Issue date		KD2-W-082 '04.4.13				
Engineer	GPE	Manager	GM	<del> </del>		
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 Re	eport No. KD2-W-110					
Issue date	9	'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-12	3		
Issue date	<b>}</b>	'04.11.15			
Engineer	GPE	Manager	GM		
Horiuchi	Takenaka	Oomura	NA	N	
Title	440(06MY)	Formal des	sign note i	ssued	
Contents	N		· ·		
	To apply r	iew 18inch d	asted wh	eel	
1	To apply new 18,19inch forged wheel				
	To apply 18inch forgrg wheels (Carry over from 05MY)				
Perpose	06MY application				

6-51

Design Report No.		KD2-W-122		_		
Issue date		'04.12.02				
Engineer	GPE	Manager	GM			
Horiuchi	Takenaka	Oomura	Murata	N		
Title	Drawing is	sue of new ca	sted 18 in	ch wheels for UBE		
	<b>Automotiv</b>	e				
Contents	N					
Ì	Moment fa	itigue:OK by l	JBE			
	Drum fatigue:OK by UBE					
•	13deg impact:OK by UBE					
_	After 90de	After 90deg impact moment fatigue:OK by UBE				
Perpose	New whee	New wheel development				

Design Report No.		XJ2-W-099				
Issue date		'07.1.11				
Engineer	GPE	Manager	GM			
Horiuchi	Takenaka		NA	N		
Title	Drawing issue of casted 18 inch wheels for UBE					
ļ	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 posion changed					
	>Pretreatment of painting to be 6 chrom free					
Perpose	Cost reduction, Environment					

## **CONFIDENTIAL ATTACHMENT G2**

CD of Engineering Specifications and Requirements

## **CONFIDENTIAL ATTACHMENT H**

CD with Engineering Drawings