

# PISTON RING SETS & CYLINDER LINERS

For Automotive Engines & Construction Machines

Vol. 36 ver. 1



NIPPON PISTON RING CO., LTD.





▲Head Office 本社



▲Tochigi Plant 栃木工場



▲NPR Fukushima Works Co.,Ltd. (株)日ビス福島製造所



▲NPR Iwate Co.,Ltd./Ichinoseki Plant (株)日ビス岩手／一関工場



▲NPR Iwate Co.,Ltd./Senmaya Plant (株)日ビス岩手／千厩工場

# Introducing **NPR**

Nippon Piston Ring Co., Ltd. was founded in 1931 as the first piston ring manufacturer in Japan. The company has been continuously engaged in the production of various engine components for over half a century.

Engines are constantly being developed and made more efficient. Manufacturers of engine parts, together with engine builders, have to meet the technical challenges modern designs present to them.

NPR has 18 engine test benches of its own, where its products are constantly tested and improved to ensure they are suitable for commercial use.

NPR's products are supplied to every manufacture of internal combustion engines in Japan. Many are also exported both as original equipment and after market parts to overseas market.

Abroad, NPR's international operation continues to expand with many agents and distributors in many countries.



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## ~1945

In order to commence local production of piston rings Tomonori Suzuki established in 1931 the Nippon Piston Ring Works in Kawaguchi, Saitama. Until that time all piston rings were imported into Japan. The new company was incorporated into Nippon Piston Ring Co., Ltd. in 1934 with a capital of ¥1 million. With the expanding demand for piston rings for use in trucks, aircrafts and ships NPR's production facilities were progressively enlarged and the Yono Plant was opened in 1939.

## ~1955

Production of piston rings was restarted in 1946 after the end of World War II. In 1950, NPR introduced for the first time in Japan, chrome plated piston rings for use in repaired automobile engines and in 1953 these were also adopted by original equipment engine manufacturers. In the same year, the company was authorized to use the Japan Industrial Standard notation for piston rings (JIS-8032).

## ~1965

Following on its success with chrome plating technology, NPR announced the development of Japan's first high strength cast irons, NIPPALLOY and UBALLOY. These were followed in 1968 with the boron cast iron TARKALLOY. All these alloys represented a major step forward in the development of wear resistance material and the technology was subsequently licensed to a number of companies, both Japanese and foreign. Today these materials are still specified as standard materials for engine components. In 1961, NPR introduced Japan's first steel rail three piece oil control ring known as NIFFLEX. This represented a major change in design of oil control rings which until this time had always been traditional cast iron type.

## ~1975

Emission control of automotive engines to reduce and limit air pollution became a major problem with all leading component manufactures called on to provide technical solution. NPR was in the forefront of development with piston rings for use in lead-free gasoline engines followed by new production of such valve train parts as valve seat inserts, camshafts and tappets. NPR's overseas activities were stepped up. Expanding its export marketing, NPR was commended in 1966 by the Ministry of International Trade and Industry (MITI) as a distinguished exporting enterprise.

## ~1985

Engine technology in Japan made remarkable progress during these years, leading to the achievement of unparalleled compactness, light weight and high performance, which won high reputation for Japanese built engines throughout the world. The production of

engines for construction machinery, forklifts and pumps, plus machinery for agriculture or horticulture also increased remarkably NPR products featured extensively in all these engines.

In 1982, production of cylinder liners, camshafts and sintered metal products was transferred to the new Fukushima Works. In 1984, NPR closed down its Kawaguchi Plant and opened its newly built Tochigi Plant in Nogi-machi, Tochigi, to give NPR a new production line-up comprising three factories—Yono, Tochigi and Fukushima.

## ~1995

This is a difficult and challenging era with an ever increasing range of requirements presenting themselves from international markets. As a dedicated and specialized manufacturer of functional components NPR continues in its efforts to meet these requirements from both domestic and overseas customers.

Production of narrow steel compression rings with special surface treatment, liners for aluminum cylinder blocks and composite sintered valve seat inserts has been increased to meet the requirement for fuel-efficient, high-performance and durable engine parts. In 1986, NPR commenced massive exports of P/M camshafts to U.S.A

In order to increase the production capacity of piston rings NPR established in 1990 the NPR Iwate/Senmaya. In 1992, NPR started series supply of big volume piston rings to Mercedes-Benz AG (present Daimler AG), Germany.

## 1996~

Aiming at a reliable global supplier, NPR is expanding the bases, both Japanese and foreign.

In Japan, NPR head office was moved from Tokyo to Saitama in 1998. In 2002, production of piston rings in Yono Plant (in Saitama) was transferred to the newly built NPR Iwate/Ichinoseki Plant, and in 2003, NPR closed down the Yono Plant.

NPR Head Office, Tochigi Plant, NPR Iwate, and NPR Fukushima Works, together were certified in ISO9001, QS9000, ISO14001, and ISO/TS16949:2002 with being recognized their excellence in quality control.

In 2004, NPR celebrated the 70th anniversary of foundation with thanks.

On the other hand, overseas production bases were expanded mainly for the business of piston rings/valve seat inserts, and NPR established production bases in ASEAN, China and North America, respectively.

Moreover, as for the overseas sales offices, NPR established NPR of Europe GmbH in Germany in 1999 as a sales base of OE supply to European automobile manufacturer, and established NPR Singapore Pte.Ltd in 2005. These resulted to give NPR a new overseas sales office line-up—U.S.A., Germany, Singapore, China, and South Korea.



You can check the latest version of  
NPR's catalog on the following website.

<http://www.npr-japan.com>



The screenshot shows the NPR website homepage. At the top left is the NPR logo (NIPPON PISTON RING). The main header reads "日本ピストンリング株式会社 NIPPON PISTON RING CO.,LTD." followed by the address "5-12-10, Honmachi-Higashi, Chuo-Ku, Saitama-City, Saitama, JAPAN". Below this is a welcome message: "Welcome to the NPR website. The ID authentication screen is available to people who wish to acquire authentic NPR products, so please feel free to use it." A prominent yellow button with a red arrow icon says "Security Check". Underneath is a "News Release" section with a link for "2017.8.1 Catalogue Vol.30 VER.3 「PISTON RING SETS & CYLINDER LINERS」". A red dashed box highlights this link, and a red mouse cursor icon with the text "Click here!" points to it. The bottom left of the screenshot features a "Norton SECURED" logo, and the bottom right has the copyright notice "COPYRIGHT (C) NIPPON PISTON RING CO.,LTD. ALL RIGHTS RESERVED."

Click here!

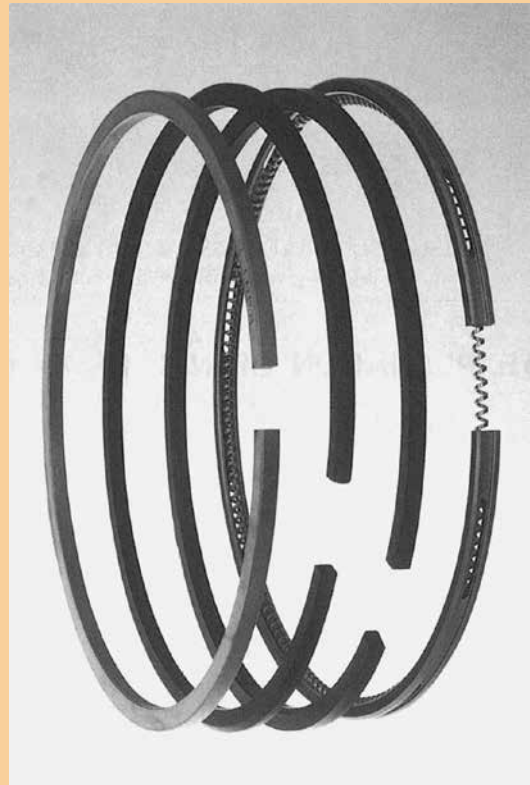


**NIPPON PISTON RING CO.,LTD.**

5-12-10, Honmachi-Higashi, Chuo-ku Saitama-City, Saitama JAPAN

A496A-3-1501-400(TOP)

# PISTON RING SETS



● EXPLANATION OF NPR PRODUCT CODE No. / セットコードNo.の解説

Example

**SW T10 105 ZZ**

Maker Code

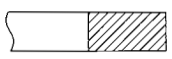
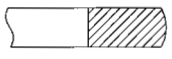
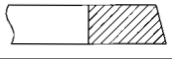
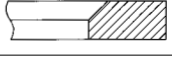
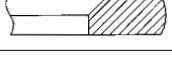
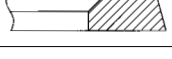
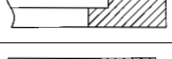
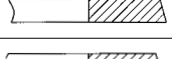
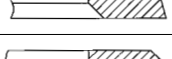
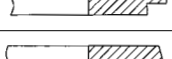
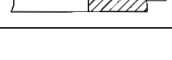
Drawing No.

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ZX : "SS999"Spec

● MAKER CODE

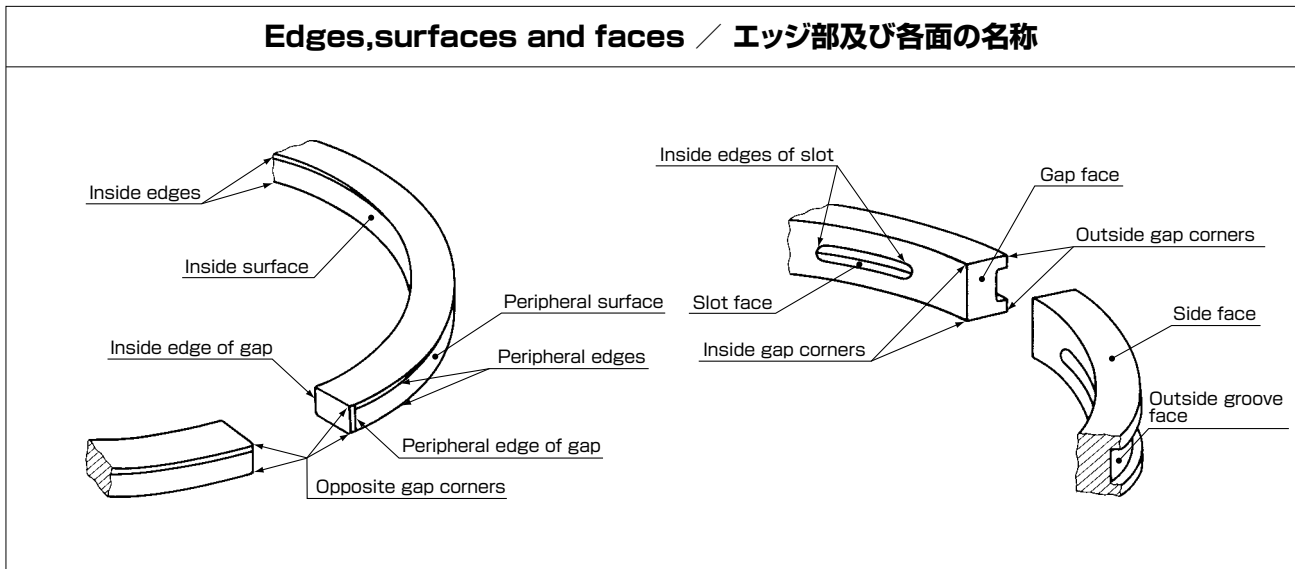
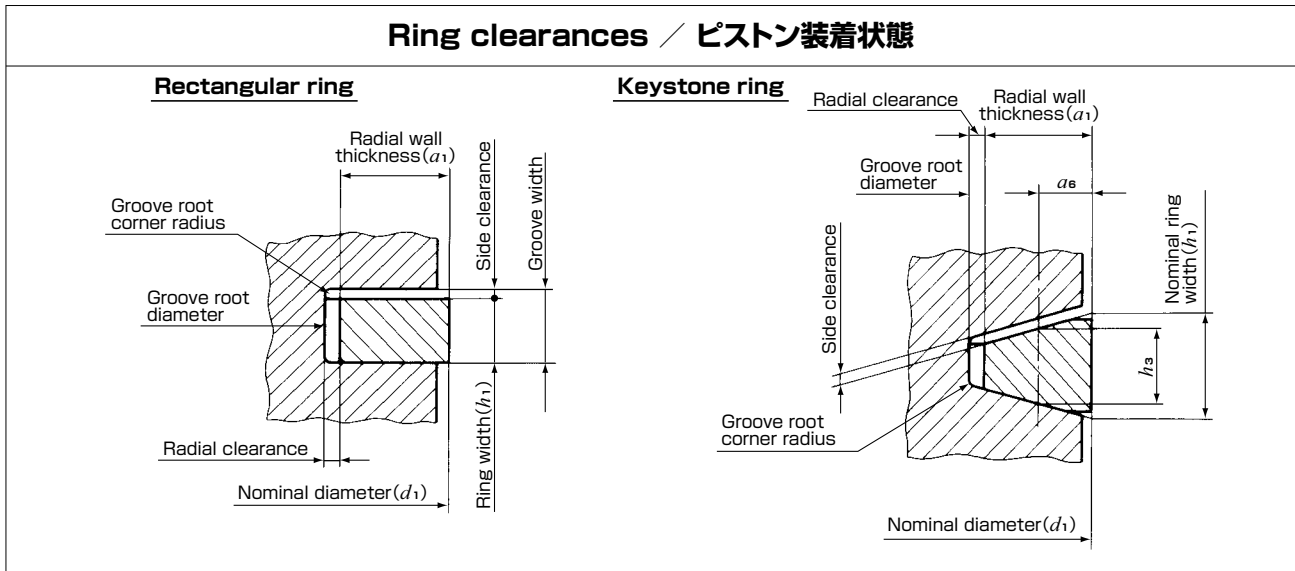
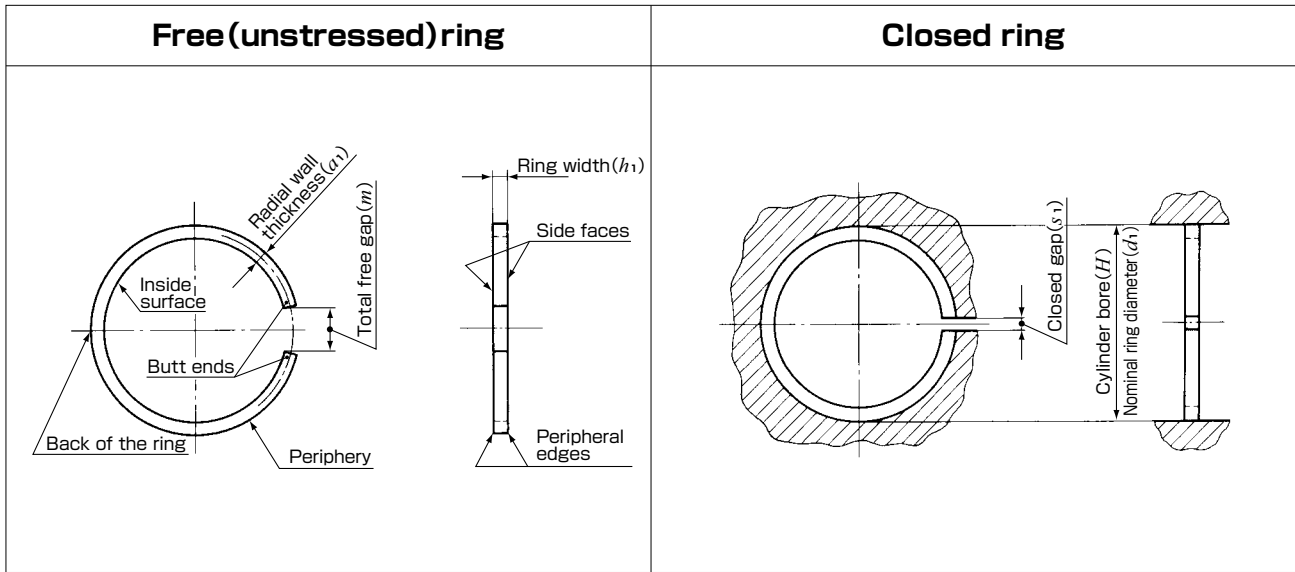
D10 : DAIHATSU	S20 : SUZUKI
F20 : SUBARU	T10 : TOYOTA
H20 : HINO	T20 : MAZDA
H30/H33 : HONDA	A20 : ASIA
I10 : ISUZU	D20 : DAEWOO
K04 : KOMATSU	G30 : HYUNDAI
M30 : MITSUBISHI	K30 : KIA
M31 : MITSUBISHI	C10 : CHRYSLER
N30 : NISSAN	F30 : FORD
N31 : UD TRUCKS	G10 : GM

● Cross-section configuration · Material / 断面形状・材料

Cross-section configuration / Configuration Code		Material code : Material name
	P	CR : NPR cast iron
	BF	HB : NIPPALLOY (Spheroidal graphite cast iron)
	T1 B1-T1	SR : Steel
	IB	● Code : Surface treatment
	BF-IB · BF-IC	Fe : Phosphated
	T1-IB	Cr : Chromium plated
	IC	GN : Nitrided
	T1-IC	PC : PVD
	T1-RB	W : No coating
	B1-TUC B1-UC	C1 · BC1 · BC3 BC16 (Cutter oil control ring)
	TUC UC	E-C1 · E-C3 E-BC1 · E-BC3 · E-BC16 (2-Piece oil control ring)
		NIFF-S · NIFF-H (3-Piece oil control ring)

Above figures show basic cross-section configuration but not in detail.

● Piston ring nomenclature and symbols / ピストンリング各部の名称と記号





● Piston ring types / ピストンリングの形状

Compression ring			Oil control ring		
Cross-section configuration	Rectangular ring		Cross-section configuration	Slotted oil control ring	
	Keystone ring			Bevelled-edge oil control ring	
	Half Keystone ring			Double-bevelled oil control ring	
	Scraper ring (stepped)			Coil spring loaded slotted oil control ring	
	Napier ring (undercut step)			Coil spring loaded bevelled-edge oil control ring	
Face configuration	Straight-faced			Coil spring loaded double-bevelled oil control ring	
	Barrel-faced			Expander/Segment oil control ring	
	Taper-faced				

Edge configuration	
Internal bevel top (positive twist type)	
Internal step top (positive twist type)	
Internal bevel bottom (negative twist type)	
Internal step bottom (negative twist type)	
Inside edges chamfered	
Outside edges chamfered	
Inside and outside edges chamfered	

Joint configuration	
Joint with side notch	
Joint with internal notch	
Joint (straight)	
Oblique joint (angle)	
Stepped joint (angle)	

## ● Gasoline-engine Automobiles ● ガソリン車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
EB	547	Mira	SWD10029ZZ	3	1st	62.0	1.2	2.5	BF-IB	SR	Cr	Fe	13011-87206
					2nd	62.0	1.5	2.5	T1	CR	Fe	Fe	13011-87222
					Oil	62.0	2.8	2.8	NIFF-S	SR	GN	GN	
KF-VE KF-VE3	658	Pixis	SWD10049ZZ	3	1st	63.0	1.0	2.27	BF-IB	SR	Cr	Fe	13011-B2020
					2nd	63.0	1.2	2.3	TUC	CR	Fe	Fe	13011-B2021
					Oil	63.0	2.0	2.35	NIFF-H	SR	Cr	Fe	13011-B2041
		Mira Move Esse	SWD10052ZZ	3	1st	63.0	1.0	2.25	BF-IB	SR	Cr	Fe	13011-B2091
					2nd	63.0	1.0	2.1	TUC	SR	Fe	Fe	
					Oil	63.0	1.5	2.2	NIFF-H	SR	Cr	Fe	
ED-10	847	Mira Cuore	SWD10045ZZ	3	1st	66.6	1.2	2.5	BF	SR	GN	GN	13011-87208
					2nd	66.6	1.5	2.8	TUC	CR	Fe	Fe	13011-87232
					Oil	66.6	2.8	2.55	NIFF-S	SR	GN	GN	
			SWD10051ZZ	3	1st	66.6	1.2	2.3	BF	SR	GN	GN	13011-97209
					2nd	66.6	1.2	2.6	TUC	CR	Fe	Fe	
					Oil	66.6	2.0	2.2	NIFF-H	SR	GN	GN	
FE051	958	Belrina	SWD10020ZZ	4	1st	68.0	2.0	3.0	T1	CR	Cr	Fe	13011-87103
					2nd	68.0	2.0	3.0	T1	CR	Fe	Fe	
					Oil	68.0	4.0	3.1	NIFF-S	SR	Cr	Fe	
EF	659	Mira Move Hijet Opti Atray	SWD10033ZZ	3	1st	68.0	1.2	2.67	BF-IB	SR	Cr	Fe	13011-87219
					2nd	68.0	1.5	2.8	TUC	CR	Fe	Fe	
					Oil	68.0	2.8	2.55	NIFF-S	SR	Cr	Fe	
		SWD10044ZZ	3	1st	68.0	1.2	2.67	BF-IB	SR	Cr	Fe	13011-97204-A	
				2nd	68.0	1.2	2.8	TUC	CR	Fe	Fe	13011-97203	
				Oil	68.0	2.5	2.5	NIFF-S	SR	Cr	Fe		
EF-VD	659	Mira	SWD10046ZZ	3	1st	68.0	1.0	2.1	BF-IB	SR	GN	GN	13011-97206
					2nd	68.0	1.2	2.2	TUC	CR	Cr	Fe	
					Oil	68.0	2.0	2.25	NIFF-H	SR	GN	GN	
CD	843	Charade	SWD10028ZZ	3	1st	70.0	1.5	2.65	BF	SR	Cr	Fe	13011-87712
					2nd	70.0	1.5	3.1	T1	CR	Fe	Fe	13013-87710(0.5)
					Oil	70.0	2.8	2.85	NIFF-S	SR	GN	GN	
1KR-VE	998	Siga	SWT10265ZZ	3	1st	71.0	1.0	2.3	BF-IB	SR	GN	GN	13011-BZ150
					2nd	71.0	1.0	2.3	TUC	SR	Fe	Fe	
					Oil	71.0	2.0	2.2	NIFF-H	SR	GN	GN	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference	
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower		
<b>AB</b> <b>AB10</b> <b>AB20</b> <b>AB30</b> <b>AB40</b> <b>AB50</b> <b>AB55</b>	547	Fellow Max	<b>SWD10023ZZ</b>	2	1st	71.6	1.5	3.0	BF	CR	Cr	Fe	13011-87710	
		Mira			2nd	71.6	1.5	3.0	TUC	CR	Fe	Fe	13011-87714	
		Wide Cab			Oil	71.6	2.8	3.35	NIFF-S	SR	Cr	Fe	13011-87701	
		Hijet												13011-87702
														13011-87705
														13011-87709
<b>950G</b>	952	Vanguard	<b>SWD10041ZZ</b>	3	1st	72.0	1.5	3.0	BF	CR	Cr	Fe	13011-87803	
					2nd	72.0	1.5	2.9	T1	CR	Fe	Fe		
					Oil	72.0	2.8	2.55	NIFF-S	SR	Cr	Fe		
<b>EJ-DE</b>	989	Mira Gino Storia	<b>SWD10047ZZ</b>	3	1st	72.0	1.2	2.45	BF-IB	SR	Cr	Fe	13011-97201-000	
					2nd	72.0	1.2	2.9	TUC	CR	Fe	Fe	13011-97202	
					Oil	72.0	2.5	2.55	NIFF-S	SR	Cr	Fe		
<b>K3-VE</b> <b>K3-DE</b> <b>K3-VE2</b> <b>K3-VET</b>	1,297	Storia Terios	<b>SWD10050ZZ</b>	4	1st	72.0	1.2	2.45	BF-IB	SR	Cr	Fe	13011-97401-000	
					2nd	72.0	1.2	2.6	TUC	CR	Fe	Fe		
					Oil	72.0	2.0	2.3	NIFF-H	SR	Cr	Fe		
<b>EJ-VE</b>	989	Cuore Mira Gino 1000 Storia Trevis Viva	<b>SWD10053ZZ</b>	3	1st	72.0	1.2	2.5	BF-IB	SR	GN	GN	13011-BZ020-B	
					2nd	72.0	1.2	2.3	TUC	HB	Fe	Fe		
					Oil	72.0	2.0	2.25	NIFF-H	SR	GN	GN		
<b>1NR-VE</b>	1,329	Avanza Xenia Sirion Bezza	<b>SWD10054ZZ</b>	4	1st	72.5	1.2	2.5	BF	SR	GN	GN	13011-0Y030	
					2nd	72.5	1.0	2.3	TUC	SR	Fe	Fe		
					Oil	72.5	2.0	2.25	NIFF-H	SR	GN	GN		
<b>CB-10</b> <b>CB-20</b>	993	Charade	<b>SWD10024ZZ</b>	3	1st	76.0	1.5	3.1	T1	CR	Cr	Fe	13011-87704	
					2nd	76.0	1.5	3.1	T1	CR	Fe	Fe	13011-87708	
					Oil	76.0	2.8	3.15	NIFF-S	SR	Cr	Fe		
<b>HD-E</b> <b>HD-E1</b> <b>HD-EG</b> <b>HD-EP</b> <b>HD-F1</b>	1,589	Feroza	<b>SWD10034ZZ</b>	4	1st	76.0	1.2	2.7	BF-IB	SR	Cr	Fe	13011-87110	
					2nd	76.0	1.5	3.2	TUC	CR	Fe	Fe		
					Oil	76.0	3.0	2.55	NIFF-S	SR	Cr	Fe		
<b>HC-E</b> <b>HC-EH</b> <b>HC-F</b>	1,295	Charade Feroza Rocky	<b>SWD10031ZZ</b>	4	1st	76.0	1.2	2.85	BF-IB	SR	Cr	Fe	13011-87104	
					2nd	76.0	1.5	3.2	T1	CR	Fe	Fe	13011-87105	
					Oil	76.0	3.0	2.85	NIFF-S	SR	GN	GN	13011-87106	
													13011-87107	
												13011-87108		
												13011-87109		
<b>CB90</b>	997	Charade	<b>SWD10036ZZ</b>	3	1st	76.0	1.5	2.9	BF	SR	GN	GN	13011-87727	
					2nd	76.0	1.5	3.1	T1	CR	Cr	Fe		
					Oil	76.0	2.8	2.55	NIFF-S	SR	GN	GN		



## ● Diesel-engine Automobiles ● ディーゼル車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference		
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower			
<b>CL-10</b>	993	Charade	<b>SDD10042ZX</b>	3	1st	76.0	2.0		BF-K3	SR	GN	GN	13011-87717		
					2nd	76.0	1.5		T1	SR	GN	GN	13011-87723A		
					Oil	76.0	3.0	3.4	E-BC3	HB	Cr	Fe			
<b>DG</b>	2,530	Truck D300 DV32L SV32	<b>SDD10012ZX</b>	4	1st	88.0	2.0		T1	SR	GN	GN	992-5113-1410-00		
					2nd	88.0	2.0	3.8	T1	CR	Fe	Fe			
					3rd	88.0	2.0	3.8	T1	CR	Fe	Fe			
					Oil 1	88.0	4.0	4.0	E-C1	CR	Cr	Fe			
				DV26T	<b>SDD10021ZX</b>	4	1st	88.0	2.0		T1	SR	GN	GN	13011-87304
				2nd			88.0	2.0	3.8	T1	CR	Fe	Fe		
				3rd			88.0	2.0	3.8	T1	CR	Fe	Fe		
				Oil			88.0	4.0	4.0	E-C1	CR	Cr	Fe		
<b>DL(NEW)</b>	2,765	Delta	<b>SDD10026ZZ</b>	4	1st	92.0	2.5	3.6	BF	HB	Cr	Fe	13011-87320A		
					2nd	92.0	2.0	3.8	T1	CR	Cr	Fe	13011-87310		
					Oil	92.0	4.0	3.7	E-BC16	CR	Cr	Fe	13011-87311 13011-87312 13011-87313		
<b>DL-T</b>	2,765	Taft Delta	<b>SDD10048ZZ</b>	4	1st	92.0	2.5	3.45	BF-K2	SR	Cr	Fe	13011-87317-000		
					2nd	92.0	2.0	3.8	T1	CR	Cr	Fe			
					Oil	92.0	4.0	4.35	E-BC16	SR	GN	GN			

## ● Gasoline-engine Automobiles ● ガソリン車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>EN07</b>	658	Pleo Rex Vivio	<b>SWF20076ZZ</b>	4	1st	56.0	1.2	2.25	BF-IB	SR	Cr	Fe	12033-KA790
					2nd	56.0	1.2	2.45	T1-IB	CR	Fe	Fe	
					Oil	56.0	2.0	2.25	NIFF-H	SR	Cr	Fe	
<b>E42 EK42</b>	665	Subaru Rex	<b>SWF20052ZZ</b>	2	1st	78.0	1.2	3.0	BF	SR	Cr	Fe	48003-5600
					2nd	78.0	1.5	3.3	T1	CR	Cr	Fe	48003-5610
					Oil	78.0	2.8	2.8	NIFF-S	SR	Cr	Fe	
<b>EF10</b>	997	Domingo Justy	<b>SWF20054ZZ</b>	3	1st	78.0	1.2	3.0	BF	SR	Cr	Fe	48003-5800
					2nd	78.0	1.5	3.3	T1	CR	Cr	Fe	
<b>EF12</b>	1,189				Oil	78.0	2.8	2.8	NIFF-S	SR	Cr	Fe	
<b>FB16</b>	1,599	Impreza sport 1.6i	<b>SWF20074ZZ</b>	H4	1st	78.8	1.0	2.47	BF-IB	SR	Cr	Fe	12033-AC270
					2nd	78.8	1.0	2.5	TUC	SR	Fe	Fe	
					Oil	78.8	2.0	2.45	NIFF-H	SR	Cr	Fe	
<b>E62S EA62</b>	1,267	Subaru 1300G	<b>SWF20010ZZ</b>	H4	1st	82.0	2.0	3.8	T1	CR	Cr	Fe	88003-8600
					2nd	82.0	2.0	3.6	T1	CR	Fe	Fe	
					Oil	82.0	4.0	3.8	NIFF-S	SR	Cr	Fe	
<b>EA65</b>	1,298	Subaru 1300G	<b>SWF20032ZZ</b>	H4	1st	83.0	1.2	3.25	BF	SR	Cr	Fe	48003-7010
					2nd	83.0	1.5	3.6	T1	CR	Fe	Fe	
					Oil	83.0	4.0	3.6	NIFF-S	SR	Cr	Fe	
<b>FB20</b>	1,995	Forester Impreza VX	<b>SWF20073ZZ</b>	H4	1st	84.0	1.0	2.67	BF-IB	SR	Cr	Fe	12033-AC210
					2nd	84.0	1.0	2.7	TUC	SR	Fe	Fe	12033-AC220
					Oil	84.0	2.0	2.45	NIFF-H	SR	Cr	Fe	12033-AC230
<b>FB20D</b>	1,995	Impreza XV Crosstrek	<b>SWF20077ZY</b>	H4	1st	84.0	1.2	2.7	BF-IB	SR	GN	GN	12033-AD260
					2nd	84.0	1.0	2.7	TUC-RB	SR	Fe	Fe	
					Oil	84.0	2.0	2.45	NIFF-H	SR	PC	Fe	
<b>E63S EA63</b>	1,361	Subaru Leone 1400	<b>SWF20014ZZ</b>	H4	1st	85.0	2.0	3.9	T1	CR	Cr	Fe	38003-0110
					2nd	85.0	2.0	3.9	T1	CR	Fe	Fe	
					Oil	85.0	4.0	3.25	NIFF-S	SR	Cr	Fe	
<b>FA20</b>	1,998	BRZ Forester Impreza Legacy Levorg WRX	<b>SWF20075ZZ</b>	H4	1st	86.0	1.2	2.7	BF	SR	GN	GN	12033-AC300 SU003-00145
					2nd	86.0	1.0	2.7	TUC	SR	Fe	Fe	
					Oil	86.0	2.0	2.45	NIFF-H	SR	PC	W	
<b>EJ18</b>	1,820	Impreza Legacy	<b>SWF20043ZZ</b>	H4	1st	87.9	1.2	3.1	BF-IB	SR	Cr	Fe	12033-AA090
					2nd	87.9	1.5	3.6	TUC	CR	Fe	Fe	
					Oil	87.9	3.0	3.1	NIFF-S	SR	Cr	Fe	
<b>EZ30</b>	2,999	Legacy B4 Outback Legacy Touring Wagon	<b>SWF20070ZZ</b>	H6	1st	89.2	1.2	3.05	BF-IB	SR	Cr	Fe	12033-AB130
					2nd	89.2	1.2	3.6	TUC	CR	Fe	Fe	
					Oil	89.2	2.5	2.9	NIFF-H	SR	Cr	Fe	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
EA71	1,595	Subaru Leone 1600 (SEECT)	SWF20017ZZ	H4	1st	92.0	2.0	4.0	BF	CR	Cr	Fe	38003-4320
					2nd	92.0	2.0	4.0	T1	CR	Fe	Fe	38003-4300
					Oil	92.0	4.0	3.9	NIFF-S	SR	Cr	Fe	
EJ20	1,994	Legacy Forester	SWF20044ZZ	H4	1st	92.0	1.5	3.3	BF-IB	SR	Cr	Fe	12033-AA610
					2nd	92.0	1.5	3.7	TUC	CR	Fe	Fe	
					Oil	92.0	3.0	3.1	NIFF-S	SR	Cr	Fe	
		Legacy	SWF20060ZZ	H4	1st	92.0	1.2	3.3	BF-IB	SR	Cr	Fe	12033-AB070
					2nd	92.0	1.2	3.8	TUC	CR	Fe	Fe	12033-AB100
					Oil	92.0	2.5	2.8	NIFF-S	SR	Cr	Fe	12033-AB160 12033-AB220
Legacy	SWF20051ZZ	H4	1st	92.0	1.2	3.3	BF-IB	SR	Cr	Fe	12033-AA640		
			2nd	92.0	1.5	3.7	TUC	CR	Fe	Fe			
			Oil	92.0	3.0	3.1	NIFF-S	SR	Cr	Fe			
EA71(NEW)	1,595	Alcyone Subaru Leone	SWF20057ZZ	H4	1st	92.0	1.2	3.3	BF	SR	Cr	Fe	12033-AA000
EA81	1,781				2nd	92.0	1.5	3.7	T1	CR	Fe	Fe	12033-AA320
EA82	1,781				Oil	92.0	4.0	3.65	NIFF-S	SR	Cr	Fe	48003-7100
EJ20	1,994	Legacy	SWF20063ZZ	H4	1st	92.0	1.2	3.3	BF-IB	SR	Cr	Fe	12033-AB820
					2nd	92.0	1.2	3.8	TUC	CR	Fe	Fe	
					Oil	92.0	2.0	2.7	NIFF-H	SR	Cr	Fe	
EZ36	3,629	Outback	SWF20069ZZ	H6	1st	92.0	1.2	3.3	BF-IB	SR	Cr	Fe	12033-AC060
					2nd	92.0	1.2	3.8	TUC	CR	Fe	Fe	12033-AC180
					Oil	92.0	2.0	2.7	NIFF-H	SR	Cr	Fe	
FB25	2,498	Forester Legacy Wagon Legacy B4 Exiga	SWF20078ZZ (TCC-M-0181)	H4	1st	94.0	1.0	3.1	BF-IB	SR	GN	GN	12033-AC90A
					2nd	94.0	1.0	2.7	TUC	SR	Fe	Fe	12033-AC240
					Oil	94.0	2.0	2.45	NIFF-H	SR	Cr	Fe	
FA24F	2,387	Ascent Legacy Outback	TCC-Q-0782	H4	1st	94.0	1.2		BF-IB	SR	GN	GN	12033-AD38A
					2nd	94.0	1.2		TUC	CR	Fe	Fe	
					Oil	94.0	2.0		NIFF-H	SR	Cr	Fe	
EJ22	2,212	Legacy	SWF20045ZZ	H4	1st	96.9	1.2	3.25	BF-IB	SR	Cr	Fe	12033-AA210
					2nd	96.9	1.5	3.9	TUC	CR	Fe	Fe	
					Oil	96.9	3.0	3.3	NIFF-S	SR	Cr	Fe	
		Legacy	SWF20067ZZ	H4	1st	96.9	1.5	3.25	BF-IB	SR	Cr	Fe	12033-AA390
					2nd	96.9	1.5	3.9	TUC	CR	Fe	Fe	12033-AA450
					Oil	96.9	3.0	3.3	NIFF-S	SR	Cr	Fe	12033-AA570
EJ25D	2,457	Legacy Forester	SWF20064ZZ	H4	1st	99.5	1.2	3.45	BF-IB	SR	Cr	Fe	12033-AA760
					2nd	99.5	1.5	4.0	TUC	CR	Fe	Fe	
					Oil	99.5	2.8	3.1	NIFF-S	SR	Cr	Fe	
EJ251 EJ252 EJ259	2,457	Legacy Forester	SWF20066ZZ	H4	1st	99.5	1.2	3.45	BF-IB	SR	Cr	Fe	12033-AB010
					2nd	99.5	1.2	4.0	TUC	CR	Fe	Fe	12033-AB020
					Oil	99.5	2.5	2.8	NIFF-S	SR	Cr	Fe	
EJ257 EJ255 EJ253	2,457	Subaru Impreza	SWF20068ZZ	H4	1st	99.5	1.2	3.45	BF-IB	SR	Cr	Fe	12033-AB340
					2nd	99.5	1.2	4.0	TUC	CR	Fe	Fe	12033-AB250
					Oil	99.5	2.0	2.7	NIFF-H	SR	Cr	Fe	



## ● Diesel-engine Automobiles ● ディーゼル車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>DM100</b>	4,313	Truck KM300 KM320 KM330 KM340 KM350 KM410 KM450 KM320D Bus RM100 BM320 Tractor HM320 HM301	<b>SCH20004ZZ</b>	6	1st	90.0	2.5	3.7	T1	CR	Cr	Fe	13001-1350
					2nd	90.0	2.5	3.7	T1	CR	Fe	Fe	13011-1350A
					3rd	90.0	2.5	3.7	Bl-TUC	CR	Fe	Fe	3352120507
					Oil 1	90.0	4.0	3.7	BC1	CR	Cr	Fe	3352193901
					Oil 2	90.0	4.0	3.7	BC1	CR	Fe	Fe	
<b>DQ100</b>	4,507	Ranger	<b>SCH20032ZZ</b>	6	1st	92.0	2.5	3.9	T1	CR	Cr	Fe	13011-1360A
					2nd	92.0	2.5	3.9	T1	CR	Fe	Fe	
					3rd	92.0	2.5	3.9	Bl-TUC	CR	Fe	Fe	
					Oil 1	92.0	4.0	3.9	BC1	HB	Cr	Fe	
					Oil 2	92.0	4.0	3.9	BC1	CR	Fe	Fe	
<b>EC100</b>	5,010	Truck KL300 Bus RL100 Tractor HL300	<b>SCH20005ZZ</b>	6	1st	97.0	2.5	4.2	BF	HB	Cr	Fe	13011-1390
					2nd	97.0	2.5	4.3	T1-IC	CR	Fe	Fe	13019-1140A(cyl)
					3rd	97.0	2.5	4.3	Bl-TUC	CR	Fe	Fe	
					Oil 1	97.0	4.0	4.3	C1	HB	Cr	Fe	
					Oil 2	97.0	4.0	4.3	BC3	CR	Fe	Fe	
<b>W04D</b>	4,009	Ranger 3.5ton Rainbow	<b>SDH20038ZX</b>	4	1st	104.0	2.5	3.85	BF	SR	Cr	Fe	13011-1973
					2nd	104.0	2.0	4.3	T1	CR	Fe	Fe	13011-2540
					Oil	104.0	5.0	4.85	E-BC16	SR	GN	GN	13019-1150A(cyl)
<b>W04C-TI</b>	3,839	Rainbow	<b>SDH20068ZX</b>	4	1st	104.0	2.806		BF-K1	SR	GN	GN	13011-2891A
					2nd	104.0	2.5		T1-IC	SR	GN	GN	13019-1180A(cyl)
					Oil	104.0	4.0	4.35	E-BC16	SR	GN	GN	
<b>W04D-J N04C-A</b>	4,009	Dutro Ranger Liesse	<b>SDH20099ZZ</b>	4	1st	104.0	2.5	3.7	BF	SR	GN	GN	13011-3950A
					2nd	104.0	2.0	4.3	T1	CR	Fe	Fe	13019-1190A(cyl)
					Oil	104.0	4.0	4.35	E-BC16	SR	GN	GN	13011-E0110
<b>W04C-T</b>	3,839	Bus Rainbow RW RB145	<b>SDH20047ZX</b>	4	1st	104.0	2.806	3.7	BF-K1	SR	GN	GN	13011-2270A
					2nd	104.0	2.5	4.3	T1-IC	CR	Fe	Fe	13011-2270C
					Oil	104.0	5.0	4.85	E-BC3	CR	Cr	Fe	13011-2550B 13019-1160A(cyl)
<b>N04C-T</b>	4,009	Dutro Toyoace Dyna	<b>SDH20101ZY</b>	4	1st	104.0	2.5	3.7	BF	SR	GN	GN	13011-4020A
					2nd	104.0	2.0	3.7	T1	SR	GN	GN	
					Oil	104.0	4.0	4.35	E-BC16	SR	GN	GN	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference					
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower						
<b>W06D</b>	5,759	AC Rainbow	<b>SDH20041ZX</b>	6	1st	104.0	2.5	3.85	BF	SR	Cr	Fe	13011-1983					
					2nd	104.0	2.0	4.3	T1	CR	Fe	Fe	13011-2440					
					Oil	104.0	5.0	4.85	E-BC16	SR	GN	GN	13011-2550B					
<b>W04D-TK</b>	4,009	Ranger Dutro Rainbow	<b>SDH20103ZX</b>	4	1st	104.0	2.806	3.7	BF-K1	SR	GN	GN	13011-4080B					
					2nd	104.0	2.0	4.3	T1	CR	Fe	Fe	13011-4080C					
					Oil	104.0	4.0	4.35	E-BC16	SR	GN	GN	13011-E0200 13019-1170A (cyl) S1304-E0160 (cyl)					
<b>DS70 DS90</b>	7,013	Truck KC300 KC320 TE11 TE61 TE61D Bus RD100 BK11 BT10 BT30 BT31	<b>SCH20006ZZ</b>	6	1st	105.0	3.0	4.2	T1	CR	Cr	Fe	13011-1210					
					2nd	105.0	3.0	4.2	BI-TUC	CR	Fe	Fe	13011-1550					
					3rd	105.0	3.0	4.2	BI-TUC	CR	Fe	Fe	13011-1550A					
					Oil 1	105.0	4.5	4.2	BC1	HB	Fe	Fe	13019-1220A(cyl)					
					Oil 2	105.0	4.5	4.2	BC1	HB	Fe	Fe						
<b>EH100</b>	5,871	Truck BH15 KL500 HL100 Bus BX320 Tractor HL100	<b>SCH20021ZX</b>	6	1st	105.0	2.5	3.85	BF	SR	Cr	Fe	13011-1150					
					2nd	105.0	2.5	4.3	T1-IC	CR	Fe	Fe	13019-1210A(cyl)					
					3rd	105.0	2.5	4.3	BI-TUC	CR	Fe	Fe						
					Oil 1	105.0	4.0	4.3	C1	CR	Cr	Fe						
					Oil 2	105.0	4.0	4.3	BC3	CR	Fe	Fe						
<b>H07B-TI</b>	6,224	For Marine	<b>SDH20089ZZ</b>	6	1st	105.8	2.948	3.95	BF-K1	SR	GN	GN	13011-3630A					
					2nd	105.8	2.0	4.40	T1-IC	HB	Cr	Fe	13019-1240A(cyl)					
					Oil	105.8	4.0	4.35	E-BC16	SR	GN	GN						
<b>H06B-TI</b>	6,224	Ranger	<b>SDH20097ZZ</b>	6	1st	105.8	2.806	3.95	BF-K1	SR	Cr	Fe	13011-3850A					
					2nd	105.8	2.5	4.4	T1-IC	HB	Cr	Fe						
					3rd	105.8	2.5	4.4	BI-TUC	HB	Cr	Fe						
					Oil	105.8	4.0	4.15	E-BC16	SR	Cr	Fe						
				<b>SDH20064ZZ</b>	6	1st	105.8	2.806	3.95	BF-K1	SR	Cr	Fe	13011-E0440				
						2nd	105.8	2.5	4.4	T1-IC	HB	Cr	Fe					
						3rd	105.8	2.5	4.4	BI-TUC	HB	Cr	Fe					
					Oil	105.8	5.0	4.7	E-BC3	HB	Cr	Fe						
					<b>EH300</b>	6,211	Truck KR301 KL501 Bus RL300 RD300	<b>SDH20022ZX</b>	6	1st	108.0	3.0	4.05	BF	SR	Cr	Fe	13011-1032
										2nd	108.0	2.5	4.5	T1-IC	CR	Cr	Fe	13011-1032A
										Oil 1	108.0	5.0	4.95	E-BC16	SR	GN	GN	13011-1062
Oil 2	108.0	4.0	4.5	BC3						CR	Fe	Fe						

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>H06C-TA</b>	6,485	Ranger 4.25ton FD	<b>SDH20037ZX</b>	6	1st	108.0	2,806	4.05	BF-K1	SR	Cr	Fe	13011-1961
					2nd	108.0	2.5	4.5	T1-IC	CR	Fe	Fe	13011-2450B
					3rd	108.0	2.5	4.5	BI-TUC	CR	Cr	Fe	13011-3200A
					Oil	108.0	5.0	4.95	E-BC16	SR	GN	GN	13019-1260A(cyl)
<b>H06C EH500</b>	6,485	Ranger 4E	<b>SDH20042ZX</b>	6	1st	108.0	3.0	4.05	BF	SR	Cr	Fe	13011-2080
					2nd	108.0	2.5	4.5	T1-IC	CR	Fe	Fe	13011-2081B
					3rd	108.0	2.5	4.5	BI-TUC	CR	Cr	Fe	13019-1750A(cyl)
					Oil	108.0	5.0	4.95	E-BC16	SR	GN	GN	
<b>H06C-TI</b>	6,485	Ranger Selega	<b>SDH20075ZZ</b>	6	1st	108.0	2,806	4.5	BF-K1-IC	HB	Cr	Fe	13011-3281A
					2nd	108.0	2.5	4.5	T1-IC	CR	Fe	Fe	13019-1270A(cyl)
					3rd	108.0	2.5	4.5	BI-TUC	CR	Cr	Fe	
					Oil	108.0	4.0	4.15	E-BC16	SR	Cr	Fe	
<b>DS50</b>	7,982	Truck TA14 TA14D TC51 TH17 TH61 TH80 TH320 TH340D 2C440 2C340D 2H11D 2H12D 2K11 2L100 Bus BD15 BD15F BD35 BD35P BG13 BH15 BT51 BT51S BT71 RB10 RB10P RB120 RB120P	<b>SCH20007ZZ</b>	6	1st	110.0	3.0	4.5	T1	CR	Cr	Fe	13011-1230
<b>DS60</b>					2nd	110.0	3.0	4.5	T1	CR	Fe	Fe	13011-1250
					3rd	110.0	3.0	4.5	TUC	CR	Fe	Fe	13011-1261
<b>DS80</b>					Oil 1	110.0	4.5	4.5	BC1	CR	Cr	Fe	13011-1650
					Oil 2	110.0	4.5	4.5	BC1	CR	Fe	Fe	13011-1830
<b>EH700 H07C</b>					6,443	Ranger 4D Ranger 5 Ranger 7D Truck KLSD KP6D	<b>SDH20043ZX</b>	6	1st	110.0	3.0	4.1	BF
	2nd	110.0	2.5	4.5					T1-IC	CR	Fe	Fe	13011-1620
	3rd	110.0	2.5	4.5					BI-TUC	CR	Cr	Fe	13011-1620A
	Oil	110.0	5.0	4.95					E-BC16	SR	GN	GN	13011-1620B
<b>H07D</b>	7,412	Ranger	<b>SDH20056ZX</b>	6	1st	110.0	3.0	4.1	BF	SR	GN	GN	13011-2650A
					2nd	110.0	2.0	4.5	T1-IC	CR	Cr	Fe	13011-2651A
					Oil	110.0	4.0	4.35	E-BC16	SR	GN	GN	13019-1300A(cyl)



Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
<b>H07CT</b>	6,728	Ranger SD	<b>SDH20057ZX</b>	6	1st	110.0	2.806	4.05	BF-K1	SR	Cr	Fe	13011-2672A
					2nd	110.0	2.0	4.5	T1-IC	CR	Cr	Fe	13019-3270A
					3rd	110.0	2.5	4.5	B1-TUC	CR	Cr	Fe	13019-1330A(cyl)
					Oil	110.0	4.0	4.35	E-BC16	SR	GN	GN	
<b>J08B-TI</b>			<b>SDH20098ZY</b>	6	1st	110.9	2.948	3.9	BF-K1	SR	GN	GN	13011-3860A
					2nd	110.9	2.0	4.6	TUC	HB	Cr	Fe	13011-3930A
					Oil	110.9	4.0	4.45	E-BC16	SR	GN	GN	13019-1360A(cyl)
<b>A09C</b>	8,866	Truck Profia FH FR FS FN GN FQ	<b>SDH20107ZZ</b>	6	1st	112.0	2.948	4.1	BF-K1	SR	GN	GN	13011-E0060
					2nd	112.0	2.0	4.3	T1	SR	GN	GN	
					Oil	112.0	4.0	4.35	E-BC16	SR	GN	GN	
<b>J05E</b>	5,123	Truck Ranger hybrid	<b>SDH20108ZY</b>	4	1st	112.0	2.5	4.1	BF	SR	GN	GN	13011-E0350
					2nd	112.0	2.0	4.3	T1	SR	GN	GN	13019-1120A(cyl)
					Oil	112.0	4.0	4.35	E-BC16	SR	GN	GN	
<b>J08E</b>	7,684	Ranger	<b>SDH20102ZY</b>	6	1st	112.0	2.5	4.1	BF	SR	GN	GN	13011-4040A
					2nd	112.0	2.0	4.3	T1	SR	GN	GN	13019-1120A(cyl)
					Oil	112.0	4.0	4.35	E-BC16	SR	GN	GN	
<b>J07E</b>	6,403	Ranger Melpha	<b>SDH20104ZY</b>	5	1st	112.0	2.5	4.1	BF	SR	GN	GN	13011-4050A
					2nd	112.0	2.0	4.3	T1	SR	GN	GN	13019-1120A(cyl)
					Oil	112.0	4.0	4.35	E-BC16	SR	GN	GN	
			<b>SDH20109ZZ</b>	5	1st	112.0	2.948	4.1	BF-K1	SR	GN	GN	13011-E0370
					2nd	112.0	2.0	4.3	T1	SR	GN	GN	
					Oil	112.0	4.0	4.35	E-BC16	SR	GN	GN	
<b>J05C</b>	5,307	Ranger Dutro Melpha Liesse	<b>SDH20081ZX</b>	4	1st	114.0	3.0	4.1	BF	SR	GN	GN	13011-3391B
					2nd	114.0	2.0	4.3	T1-IB	SR	GN	GN	13019-1380A(cyl)
					Oil	114.0	4.0	4.35	E-BC16	SR	GN	GN	
			<b>SDH20086ZY</b>	4	1st	114.0	2.5	4.3	BF	SR	GN	GN	13011-3880A
					2nd	114.0	2.0	4.3	T1	SR	GN	GN	13011-3940A
					Oil	114.0	4.0	4.35	E-BC16	SR	GN	GN	13019-1010B(cyl) 13011-3221A 13019-1370A(cyl) S1304-E0210

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>J07C</b>	6,634	Ranger	<b>SDH20087ZY</b>	5	1st	114.0	2.5	4.3	BF	SR	GN	GN	13011-3660A
					2nd	114.0	2.0	4.3	T1	SR	GN	GN	13011-3900A
					Oil	114.0	4.0	4.35	E-BC16	SR	GN	GN	13019-1010B(cyl)
			<b>SDH20082ZX</b>	5	1st	114.0	3.0	4.1	BF	SR	GN	GN	13011-3371B
					2nd	114.0	2.0	4.3	T1	SR	GN	GN	13011-3771A
					Oil	114.0	4.0	4.35	E-BC16	SR	GN	GN	13019-1380A(cyl)
<b>J08C</b>	7,961	Selega Ranger Rainbow	<b>SDH20067ZX</b>	6	1st	114.0	3.0	4.1	BF	SR	GN	GN	13011-2960A
					2nd	114.0	2.0	4.3	T1	SR	GN	GN	13011-2961A
					Oil	114.0	4.0	4.35	E-BC16	SR	GN	GN	13011-2962A 13019-1380A(cyl)
		<b>SDH20088ZY</b>	6	1st	114.0	2.5	4.3	BF	SR	GN	GN	13011-3570A	
				2nd	114.0	2.0	4.3	T1	SR	GN	GN	13011-3820A	
				Oil	114.0	4.0	4.35	E-BC16	SR	GN	GN	13011-3890B 13019-1010B(cyl)	
		<b>SWH20090ZX</b>	6	1st	114.0	3.0	4.1	BF	SR	GN	GN	13011-3060A	
				2nd	114.0	2.0	4.3	T1	SR	GN	GN	13019-1390A(cyl)	
				Oil	114.0	4.0	3.40	NIFF-S	SR	GN	GN		
<b>EL100</b>	7,862	Truck Ranger 7E FG185 LB760	<b>SDH20029ZX</b>	6	1st	116.0	3.0	4.25	BF	SR	Cr	Fe	13011-1700
					2nd	116.0	2.5	4.8	T1-IC	CR	Fe	Fe	13011-1700B
					3rd	116.0	2.5	4.8	BI-TUC	CR	Cr	Fe	13011-1710
					Oil	116.0	5.0	4.95	E-BC16	SR	GN	GN	
<b>P10C-TI</b>	9,880		<b>SDH20083ZZ</b>	6	1st	117.8	3.306	4.1	BF-K1	SR	GN	GN	13011-3420A
					2nd	117.8	2.306	4.8	T1-K1-IC	HB	Cr	Fe	13019-1450A(cyl)
					3rd	117.8	2.0	4.8	BI-TUC	HB	Cr	Fe	
					Oil	117.8	4.0	4.65	E-BC16	SR	Cr	Fe	
<b>DK10 DK20</b>	10,178	Truck KA300 KF700 KF720 TC30 TC320 Bus RC10-P RC100 RC120 RC120P RC140P RC300 RC300-P RC320 Tractor HE100 HF300 HF301 HH700 HH720	<b>SDH20012ZX</b>	6	1st	120.0	3.5		BF	SR	GN	GN	13011-1200
					2nd	120.0	3.5	4.6	T1-IC	CR	Fe	Fe	13011-1270
					3rd	120.0	3.5	4.6	BI-TUC	CR	Fe	Fe	13011-1280
					Oil 1	120.0	5.0	4.5	E-BC3	CR	Cr	Fe	13011-1280A
					Oil 2	120.0	5.0	4.6	BC1	HB	Cr	Fe	13011-1290 3311-1205-05

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference					
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower						
<b>EB300</b>	9,838	Dump Truck KB112D	<b>SDH20017ZZ</b>	6	1st	120.0	3.5	4.6	BF	HB	Cr	Fe	12011-1330					
					2nd	120.0	3.5	4.6	T1-IC	CR	Fe	Fe	13011-1720					
					3rd	120.0	3.5	4.6	BI-TUC	CR	Fe	Fe	12011-1730A					
					Oil	120.0	6.0	5.5	E-BC3	CR	Cr	Fe	3334-1205-09					
<b>EB400</b>	9,838	RE	<b>SDH20027ZY</b>	6	1st	120.0	3.306	4.8	BF-K1	HB	Cr	Fe	13011-1630					
					2nd	120.0	3.0	4.6	T1-IC	CR	Fe	Fe	13011-1640					
					3rd	120.0	3.0	4.6	BI-TUC	CR	Cr	Fe	13011-1640A					
					Oil	120.0	6.0	5.5	E-BC3	CR	Cr	Fe	13011-2330B 13019-1470A(cyl) 13019-1500A(cyl)					
<b>EP100 P09C-TA</b>	8,821	Super Dolphin FN288 11.5ton	<b>SDH20034ZX</b>	6	1st	120.0	3.306	4.45	BF-K1	SR	Cr	Fe	13011-1952					
					2nd	120.0	2.806	4.8	T1-K1-IC	CR	Cr	Fe	13019-1480A(cyl)					
					3rd	120.0	2.5	4.8	BI-TUC	CR	Cr	Fe						
					Oil	120.0	5.0	4.95	E-BC16	SR	GN	GN						
			<b>SDH20050ZZ</b>	6	1st	120.0	3.306	4.45	BF-K1	SR	Cr	Fe	13011-2370A					
					2nd	120.0	3.0	4.6	T1-IC	CR	Cr	Fe	13011-2760A					
					3rd	120.0	2.5	4.8	BI-TUC	CR	Cr	Fe	13011-2760B					
					Oil	120.0	5.0	4.95	E-BC16	SR	GN	GN	13019-1490A(cyl) 13011-E0540 S1304-E0480(cyl)					
<b>P11C P11B-TI</b>	10,520	Blue Ribbon Super Dolphin Profia	<b>SDH20073ZZ</b>	6	1st	122.0	3.306	4.1	BF-K1	SR	GN	GN	13011-3110A					
					2nd	122.0	2.306	4.8	T1-K1-IC	HB	Cr	Fe	13011-3111A					
					3rd	122.0	2.0	4.8	BI-TUC	HB	Cr	Fe	13011-3112A					
					Oil	122.0	4.0	4.65	E-BC16	SR	Cr	Fe	13011-3114A 13011-3114B 13011-3114C 13011-3800A 13011-3830A 13011-3870A 13019-1030B(cyl) 13019-1520A(cyl) 13011-3810A 13011-3811A 13019-1510A					
					<b>EM100</b>	9,419	Super Dolphin FH228 8ton	<b>SDH20033ZX</b>	6	1st	124.0	2.806	4.45	BF-K1	SR	Cr	Fe	13011-1921A
										2nd	124.0	2.5	5.0	T1-IC	CR	Cr	Fe	13019-1540A(cyl)
										3rd	124.0	3.0	5.0	BI-TUC	CR	Cr	Fe	
										Oil	124.0	5.0	4.95	E-BC16	SR	GN	GN	
<b>M10-U</b>	9,880	Bus Blue Ribbon HU	<b>SDH20049ZY</b>	6	1st	127.0	3.306	5.2	BF-K1	HB	Cr	Fe	13011-2250A					
					2nd	127.0	3.0	5.0	T1-IC	HB	Cr	Fe	13011-2860A					
					3rd	127.0	3.0	5.2	BI-TUC	CR	Cr	Fe	13019-1550A(cyl)					
					Oil	127.0	5.0	5.0	E-BC3	CR	Cr	Fe						

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>ED100</b>	11,581	Truck (Export spec) HE35 HH130	<b>SDH20020ZZ</b>	6	1st	128.0	3.5	4.8	BF	HB	Cr	Fe	13011-1470
					2nd	128.0	3.5	4.8	T1-IC	HB	Cr	Fe	13011-1480
					3rd	128.0	3.5	4.8	Bl-TUC	CR	Fe	Fe	13011-1660
					Oil	128.0	6.0	5.5	E-BC3	CR	Cr	Fe	13011-1670 13011-1670A
			<b>SDH20048ZZ</b>	6	1st	128.0	4.0	4.8	BF	HB	Cr	Fe	13011-2230A
					2nd	128.0	4.0	4.8	T1-IC	HB	Cr	Fe	
					3rd	128.0	3.5	4.8	Bl-TUC	CR	Fe	Fe	
					Oil	128.0	6.0	5.5	E-BC3	CR	Cr	Fe	
<b>ER200</b>	11,581	RC	<b>SDH20045ZZ</b>	6	1st	128.0	3.5	4.8	BF	HB	Cr	Fe	13011-1770
					2nd	128.0	3.0	4.8	T1-IC	CR	Fe	Fe	13011-1770B
					3rd	128.0	3.0	4.8	Bl-TUC	CR	Cr	Fe	
					Oil	128.0	6.0	5.5	E-BC3	CR	Cr	Fe	
<b>EF100 EF100T</b>	13,804	Truck HE345 TC701 Bus HE345 TC701	<b>SDH20018ZZ</b>	V8	1st	130.0	3.306	5.2	BF-K1	HB	Cr	Fe	13011-1180
					2nd	130.0	3.5	5.4	T1-IC	CR	Fe	Fe	13011-1180A
					3rd	130.0	3.5	5.4	Bl-TUC	CR	Fe	Fe	13011-1570
					Oil	130.0	6.0	5.5	E-BC3	CR	Cr	Fe	13011-1570A 13011-1580 13011-1590 13011-1590A 3391-1205-04 13019-1460A(cyl)
<b>EF300 EF350</b>	14,332	Truck TC702D KF703D ZM704D	<b>SDH20024ZZ</b>	V8	1st	132.0	3.306	5.2	BF-K1	HB	Cr	Fe	13011-1100
					2nd	132.0	3.5	5.4	T1-IC	CR	Fe	Fe	13011-1101
					3rd	132.0	3.5	5.4	Bl-TUC	CR	Cr	Fe	13011-1091A
					Oil	132.0	6.0	5.5	E-BC3	CR	Cr	Fe	13011-1091B 13019-1560A(cyl)
<b>EG100 EF550</b>	14,886 16,260	Truck KB500D KS320 ZM102 TC541 Bus RV530P 550P Tractor WG300 HF350	<b>SDH20019ZX</b>	V8	1st	135.0	3.306	4.7	BF-K1	SR	GN	GN	13011-1131
					2nd	135.0	3.5	5.4	T1-IC	CR	Fe	Fe	13011-1131B
					3rd	135.0	3.5	5.4	Bl-TUC	CR	Cr	Fe	13011-1460
					Oil	135.0	6.0	5.5	E-BC3	CR	Cr	Fe	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
<b>EF550</b>	16,260	Super Dolphin	<b>SDH20039ZX</b>	V8	1st	135.0	2.806	5.4	BF-K1	HB	Cr	Fe	13011-2010A
					2nd	135.0	3.5	5.4	T1-IC	CR	Fe	Fe	13019-1590A(cyl)
					3rd	135.0	3.0	5.4	BI-TUC	CR	Cr	Fe	
					Oil	135.0	5.0	4.95	E-BC16	SR	Cr	Fe	
			<b>SDH20058ZX</b>	V8	1st	135.0	3.306	4.7	BF-K1	SR	GN	GN	13011-2700
					2nd	135.0	3.5	5.4	T1-IC	CR	Fe	Fe	
					3rd	135.0	3.5	5.4	BI-TUC	CR	Cr	Fe	
					Oil	135.0	5.0	4.95	E-BC16	SR	Cr	Fe	
<b>K13C</b>	12,882	Truck Ranger Super Profia	<b>SDH20092ZY</b>	6	1st	135.0	3.306	4.7	BF-K1	SR	GN	GN	13011-3790A
					2nd	135.0	3.5	5.4	T1-IC	CR	Fe	Fe	
					3rd	135.0	3.5	5.4	BI-TUC	CR	Cr	Fe	
					Oil	135.0	5.0	4.95	E-BC16	SR	Cr	Fe	
<b>F17D</b>	17,238	FS FR FN FW SH RU	<b>SDH20095ZY</b>	V8	1st	137.0	3.306	4.7	BF-K1	SR	GN	GN	13011-3770A
					2nd	137.0	3.5	5.4	T1-IC	CR	Fe	Fe	13019-1090B(cyl)
					3rd	137.0	3.5	5.4	BI-TUC	CR	Cr	Fe	
					Oil	137.0	4.0	4.15	E-BC16	SR	GN	GN	
<b>EK100 EK200 EK130T</b>	13,267	Truck TC303D KF301D ZM103D KB501D KS321	<b>SDH20023ZX</b>	6	1st	137.0	3.306	4.7	BF-K1	SR	GN	GN	13011-1010
					2nd	137.0	3.5	5.4	T1-IC	CR	Fe	Fe	13011-1011
					3rd	137.0	3.5	5.4	BI-TUC	CR	Cr	Fe	13011-1021
					Oil	137.0	6.0	5.5	E-BC3	CR	Cr	Fe	13011-1021B 13011-2210 13011-3750B 13019-1610A(cyl)
<b>EF700 EF750</b>	15,920	Tractor HE HH TC	<b>SDH20025ZX</b>	V8	1st	137.0	3.306	4.7	BF-K1	SR	GN	GN	13011-1111
	16,745				2nd	137.0	3.5	5.4	T1-IC	CR	Fe	Fe	13011-1112
					3rd	137.0	3.5	5.4	BI-TUC	CR	Cr	Fe	13011-1121
					Oil	137.0	6.0	5.5	E-BC3	CR	Cr	Fe	13011-1121B 13011-1122 13011-2170B 13011-2180 13019-1610A(cyl)
<b>EV700</b>	19,900	Truck SH HE526 SS TC562	<b>SDH20028ZZ</b>	V10	1st	137.0	3.306	5.4	BF-K1	HB	Cr	Fe	13011-1741
					2nd	137.0	3.5	5.4	T1-IC	CR	Fe	Fe	13011-1741B
					3rd	137.0	3.5	5.4	BI-TUC	CR	Cr	Fe	13011-1751
					Oil	137.0	6.0	5.5	E-BC3	CR	Cr	Fe	13011-2200A 13019-1610A(cyl)



Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>EF700T</b> <b>EF750T</b>	15,920	Bus	<b>SDH20031ZX</b>	V8	1st	137.0	3.306	4.7	BF-K1	SR	GN	GN	13011-1890
	16,745	RU60/63			2nd	137.0	3.306	5.4	T1-K1-IC	CR	Cr	Fe	13011-1891
					3rd	137.0	3.5	5.4	BI-TUC	CR	Cr	Fe	13011-3100B
					Oil	137.0	6.0	5.5	E-BC3	CR	Cr	Fe	13019-1640A(cyl) 13019-1680A(cyl)
<b>EF750</b>	16,745	FN	<b>SDH20040ZZ</b>	V8	1st	137.0	2.806	5.4	BF-K1	HB	Cr	Fe	13011-1990A
		SS			2nd	137.0	3.5	5.4	T1-IC	CR	Fe	Fe	13019-1670A(cyl)
		SH			3rd	137.0	3.0	5.4	BI-TUC	CR	Cr	Fe	
		FS			Oil	137.0	5.0	5.0	E-BC3	CR	Cr	Fe	
<b>F17D</b> <b>EF750</b>	17,238	Selega	<b>SDH20059ZX</b>	V8	1st	137.0	3.306	4.7	BF-K1	SR	GN	GN	13011-2710A
	16,745	Super Dolphin			2nd	137.0	3.5	5.4	T1-IC	HB	Cr	Fe	
					3rd	137.0	3.5	5.4	BI-TUC	CR	Cr	Fe	
					Oil	137.0	5.0	4.95	E-BC16	SR	Cr	Fe	
<b>K13D</b>	13,267	Super Dolphin	<b>SDH20061ZX</b>	6	1st	137.0	3.306	4.7	BF-K1	SR	GN	GN	13011-2770
					2nd	137.0	3.5	5.4	T1-IC	HB	Cr	Fe	13011-2771B
					3rd	137.0	3.5	5.4	BI-TUC	CR	Cr	Fe	13019-1620A(cyl)
					Oil	137.0	5.0	4.95	E-BC16	SR	Cr	Fe	
<b>F17D-TI</b>	17,238	Selega	<b>SDH20065ZX</b>	V8	1st	137.0	3.306	5.4	BF-K1	HB	Cr	Fe	13011-2910A
		Super Dolphin			2nd	137.0	3.306		T1-K1-IC	SR	GN	GN	13019-1660A(cyl)
					3rd	137.0	3.5	5.4	BI-TUC	CR	Cr	Fe	
					Oil	137.0	5.0	4.95	E-BC16	SR	Cr	Fe	
<b>E13C</b>	12,913	Profia	<b>SDH20100ZY</b>	6	1st	137.0	3.306	4.1	BF-K1	SR	GN	GN	13011-4010A
					2nd	137.0	2.806	4.9	T1-K1-IB	SR	GN	GN	
					3rd	137.0	2.5	4.5	T1	SR	GN	GN	
					Oil	137.0	4.0	4.4	E-BC16	SR	GN	GN	
<b>V22C</b>	21,548	Super Dolphin	<b>SDH20052ZZ</b>	V10	1st	139.0	3.306	5.4	BF-K1	HB	Cr	Fe	13011-2470A
					2nd	139.0	3.5	5.5	T1-IC	CR	Fe	Fe	13011-2471B
					3rd	139.0	3.5	5.5	BI-TUC	CR	Cr	Fe	13011-2472A
					Oil	139.0	6.0	5.5	E-BC3	CR	Cr	Fe	13019-1690A(cyl)
<b>F17C</b> <b>F17E</b>	17,238	Super Dolphin	<b>SDH20053ZX</b>	V8	1st	139.0	3.306	4.7	BF-K1	SR	GN	GN	13011-2810A
		Selega			2nd	139.0	3.5	5.5	T1-IC	CR	Fe	Fe	13011-3150A
					3rd	139.0	3.5	5.5	BI-TUC	CR	Cr	Fe	13019-1700A
					Oil	139.0	5.0	4.95	E-BC16	SR	GN	GN	
<b>V22D</b>	21,548	Super Dolphin	<b>SDH20072ZY</b>	V10	1st	139.0	3.306	5.4	BF-K1	HB	Cr	Fe	13011-3170A
					2nd	139.0	3.5	5.5	T1-IC	HB	Cr	Fe	13011-3180
					3rd	139.0	3.5	5.5	BI-TUC	CR	Cr	Fe	13019-1700A(cyl)
					Oil	139.0	5.0	4.95	E-BC16	SR	GN	GN	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
<b>F20C</b>	19,688	Ranger Truck Super Dolphin Profia FS	<b>SDH20077ZX</b>	V8	1st	146.0	3.306	4.7	BF-K1	SR	GN	GN	13011-3320A
					2nd	146.0	3.0	5.1	T1	SR	GN	GN	13019-1720A(cyl)
					3rd	146.0	3.0	5.1	T1	SR	GN	GN	
					Oil	146.0	4.0	4.4	E-BC16	SR	GN	GN	
<b>V26C</b>	25,977	Super Dolphin	<b>SDH20080ZX</b>	V10	1st	150.0	3.306	5.5	BF-K1	SR	GN	GN	13011-3450A
					2nd	150.0	3.0		T1-IC	SR	GN	GN	13019-1730A(cyl)
					3rd	150.0	3.0	5.8	BI-TUC	HB	Cr	Fe	
					Oil	150.0	4.0	4.65	E-BC16	SR	Cr	Fe	
<b>F21C</b>	20,781	Selega Super Dolphin	<b>SDH20076ZX</b>	V8	1st	150.0	3.306	5.5	BF-K1	SR	GN	GN	13011-3310A
					2nd	150.0	3.0		T1-IC	SR	GN	GN	13019-1730A(cyl)
					3rd	150.0	3.0	5.8	BI-TUC	HB	Cr	Fe	
					Oil	150.0	4.0	4.65	E-BC16	SR	Cr	Fe	

## ● Gasoline-engine Automobiles ● ガソリン車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>E07Z</b>	658	Z Z turbo Life	<b>SWH30495ZZ</b>	3	1st	66.0	1.2	2.25	BF	SR	Cr	Fe	13011-PDF-004
					2nd	66.0	1.2	2.85	T1	CR	Fe	Fe	
					Oil	66.0	2.8	2.5	NIFF-S	SR	Cr	Fe	
<b>EB1</b>	1,169	Civic 1200	<b>SWH30107ZZ</b>	4	1st	70.0	1.5	2.8	T1	CR	Cr	Fe	13011-634-004
					2nd	70.0	1.5	2.8	T1	CR	Fe	Fe	13011-634-305
					Oil	70.0	2.8	2.75	NIFF-S	SR	Cr	Fe	13011-643-015
<b>RGB(T/C)</b>			<b>YWH30442ZY</b>	1	1st	71.0	1.2	2.45	BF-IB	SR	Cr	Fe	13011-RGB-0060(cyl)
					2nd	71.0	1.2	2.8	T1	CR	Fe	Fe	
					Oil	71.0	2.5	2.5	NIFF-H	SR	Cr	Fe	
<b>P07A</b>	658	Life Turbo Life NA	<b>SWH30473ZZ</b>	3	1st	71.0	1.0	2.3	BF-IB	SR	GN	GN	13011-RS9-006
					2nd	71.0	1.2	2.8	T1	CR	Fe	Fe	13011-RS8-006
					Oil	71.0	2.0	2.2	NIFF-H	SR	GN	GN	
<b>EB2</b>	1,237	Civic 1200	<b>SWH30184ZY</b>	4	1st	72.0	1.5	2.85	BF	SR	Cr	Fe	13011-642-003
					2nd	72.0	1.5	3.4	T1	CR	Fe	Fe	13011-642-004
					Oil	72.0	2.8	3.0	NIFF-S	SR	Cr	Fe	13011-642-305
<b>E12 EJ1</b>	1,335	Civic 1300 Ballade	<b>SWH30219ZZ</b>	4	1st	72.0	1.0	2.85	BF	SR	Cr	Fe	13011-PA5-034
					2nd	72.0	1.2	3.2	T1	CR	Fe	Fe	13011-PA5-014
					Oil	72.0	2.8	3.0	NIFF-S	SR	Cr	Fe	13011-PA5-024
<b>EN EJ</b>	1,335	Ballade Civic 1300 Civic Van SV	<b>SWH30162ZZ</b>	4	1st	72.0	1.5	3.1	BF	HB	Cr	Fe	13011-PA0-004
					2nd	72.0	1.5	3.4	T1	CR	Fe	Fe	13011-PA1-004
					Oil	72.0	4.0	3.05	NIFF-S	SR	Cr	Fe	13011-PA5-004 13011-673-000 13011-679-621 13011-695-004
<b>L12B</b>	1,198	Jazz Brio Brio Amaze	<b>SWH30465ZZ</b>	4	1st	73.0	1.0	2.3	BF-IB	SR	GN	GN	13011-RB0-006(cyl)
					2nd	73.0	1.0	2.3	TUC	SR	Fe	Fe	13011-RW0-006
					Oil	73.0	2.0	2.2	NIFF-H	SR	GN	GN	13011-RB0-004 13011-RB1-004 13011-5R0-013 13011-5R0-014
<b>L13A</b>	1,339	Fit 1.3L											
<b>L15A7 LEA L15B</b>	1,497	Fit 1.5L Civic Hybrid											
<b>LDA-MF3</b>	1,339	Civic Hybrid	<b>SWH30474ZZ</b>	4	1st	73.0	1.0	2.25	BF-IB	SR	Cr	Fe	13011-PWA-G01
					2nd	73.0	1.2	3.0	TUC	CR	Fe	Fe	13011-REA-Z01
					Oil	73.0	2.0	2.2	NIFF-H	SR	Cr	Fe	
<b>L15B</b>	1,497	Fit Vezel Shuttle Grace Freed	<b>SWH33008ZZ (TCC-P-0721)</b>	4	1st	73.0	1.2	2.3	BF	SR	GN	GN	13011-59B-014
					2nd	73.0	1.0	2.3	TUC	SR	Fe	Fe	
					Oil	73.0	2.0	2.3	NIFF-H	SR	GN	GN	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>EC</b>	1,488	Civic 1500SE Civic Van VB	<b>SWH30091ZZ</b>	4	1st	74.0	1.5	3.4	BF	CR	Cr	Fe	13011-657-003
					2nd	74.0	1.5	3.2	T1	CR	Fe	Fe	13011-657-315
					Oil	74.0	2.8	2.8	NIFF-H	SR	GN	GN	13011-657-604
<b>ED3</b>	1,488	Civic 1500	<b>SWH30114ZZ</b>	4	1st	74.0	1.5	3.4	BF	CR	Cr	Fe	13011-657-670
<b>ED4</b>	1,488	Ballade 1500 SG,SH,ST			2nd	74.0	1.5	3.2	T1	CR	Fe	Fe	13011-657-671
<b>EM1</b>					1,599	Accord 1600SJ	Oil	74.0	4.0	3.05	NIFF-S	SR	Cr
<b>D15A3</b>	1,488	Civic CVCC Hatch Back											
<b>D13A2 EV1</b>	1,342	CRX Civic	<b>SWH30252ZZ</b>	4	1st	74.0	1.2	2.8	BF	SR	Cr	Fe	13011-PE0-662
					Oil	74.0	2.8	2.8	NIFF-H	SR	GN	GN	
<b>D15A2</b>	1,488	Civic CVCC Civic 1500 Ballade 1500	<b>SWH30253ZZ</b>	4	1st	74.0	1.2	2.8	BF	SR	Cr	Fe	13011-PA6-014
					2nd	74.0	1.2	3.2	T1	CR	Fe	Fe	13011-PE1-004
					Oil	74.0	2.8	2.8	NIFF-H	SR	GN	GN	13011-PE7-014
<b>EW</b>	1,488	Civic	<b>SWH30326ZZ</b>	4	1st	74.0	1.5	2.9	BF	SR	GN	GN	13011-PE3-004
		Ballade			2nd	74.0	1.5	3.2	T1	CR	Cr	Fe	
<b>EV</b>	1,342				Oil	74.0	4.0	3.05	NIFF-S	SR	Cr	Cr	Fe
<b>D15A</b>	1,488	Civic 1500 CRX	<b>SWH30374ZZ</b>	4	1st	74.0	1.0	2.7	BF	SR	Cr	Fe	13011-PE0-004
					2nd	74.0	1.2	3.2	T1	CR	Fe	Fe	
					Oil	74.0	2.8	2.8	NIFF-H	SR	GN	GN	
<b>D15B7 D16A1 D16A8</b>	1,493	Civic 1500	<b>SWH30362ZZ</b>	4	1st	75.0	1.2	2.7	BF	SR	GN	GN	13011-PM6-G02
	1,590	Civic 1600			2nd	75.0	1.5	3.2	TUC	CR	Cr	Fe	
					Oil	75.0	2.8	2.55	NIFF-S	SR	GN	GN	
<b>D15B6</b>	1,493	CRX	<b>SWH30363ZZ</b>	4	1st	75.0	1.0	2.65	BF	SR	Cr	Fe	13011-PM8-A02
					2nd	75.0	1.2	3.2	T1	CR	Fe	Fe	
					Oil	75.0	2.8	3.0	NIFF-S	SR	Cr	Fe	
<b>D15B1 D15B2 D15B8</b>	1,493	Civic 1500	<b>SWH30365ZZ</b>	4	1st	75.0	1.2	2.7	BF	SR	Cr	Fe	13011-PM5-A02
		Civic 1600			2nd	75.0	1.5	3.2	T1	CR	Fe	Fe	
		CRX			Oil	75.0	2.8	2.8	NIFF-S	SR	Cr	Cr	Fe
<b>D16A1 D16A8</b>	1,590	Integra Partner											
<b>SH4 PM0</b>	1,488	Civic 1500	<b>SWH30382ZZ</b>	4	1st	75.0	1.2	2.7	BF	SR	GN	GN	13011-PM0-B02
		CRX			2nd	75.0	1.5	3.2	TUC	CR	Cr	Fe	
		Domani			Oil	75.0	4.0	3.05	NIFF-S	SR	Cr	Fe	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>D15Z1</b> <b>D16Y5</b> <b>D16Y7</b> <b>D16Y8</b>	1,493	Civic 1500	<b>SWH30423ZZ</b>	4	1st	75.0	1.0	2.65	BF-IB	SR	Cr	Fe	13011-P07-004
	1,590	Civic 1600			2nd	75.0	1.2	2.8	TUC	CR	Fe	Fe	13011-P08-004
					Oil	75.0	2.8	2.55	NIFF-S	SR	Cr	Fe	
<b>D17A1</b> <b>D17A7</b> <b>D17A8</b>	1,668	Civic Stream	<b>SWH30440ZZ</b>	4	1st	75.0	1.0	2.65	BF-IB	SR	Cr	Fe	13011-PLM-A00
					2nd	75.0	1.2	3.0	T1	CR	Fe	Fe	13011-PLR-A00
					Oil	75.0	2.0	2.5	NIFF-H	SR	GN	GN	
<b>D15B7</b> <b>P04</b>	1,493	Partner Domani	<b>SWH30445ZZ</b>	4	1st	75.0	1.2	2.7	BF	SR	Cr	Fe	13011-P04-G02
					2nd	75.0	1.5	3.3	T1	CR	Fe	Fe	
					Oil	75.0	2.8	2.8	NIFF-S	SR	Cr	Fe	
<b>EK1</b>	1,751	Accord Prelude Vigor	<b>SWH30158ZZ</b>	4	1st	77.0	1.5	2.85	BF	SR	Cr	Fe	13011-676-602
					2nd	77.0	1.5	3.3	TUC	CR	Fe	Fe	13011-676-604
					Oil	77.0	4.0	3.05	NIFF-S	SR	Cr	Fe	13011-676-642 13011-689-003 13011-689-015 13011-689-005
<b>EP</b>	1,601												
<b>A18A1</b>	1,829	Accord Prelude	<b>SWH30251ZZ</b>	4	1st	80.0	1.5	3.05	BF	SR	Cr	Fe	13011-PC6-004
					2nd	80.0	1.5	3.4	TUC	CR	Fe	Fe	13011-PC6-013
					Oil	80.0	4.0	3.3	NIFF-S	SR	Cr	Fe	13011-PC7-023 13011-PD6-003 13011-PH1-003 13011-PH2-003
<b>EY</b> <b>ET2</b>	1,598												
<b>A18A</b>	1,829	Accord Prelude	<b>SWH30409ZZ</b>	4	1st	80.0	1.2	3.05	BF-IB	SR	Cr	Fe	13011-PH2-902
					2nd	80.0	1.2	3.3	T1	CR	Fe	Fe	13011-PH2-901
					Oil	80.0	2.8	2.85	NIFF-S	SR	Cr	Fe	13011-PD4-003
<b>B16A1</b> <b>B17A1</b>	1,595	Integra	<b>SWH30373ZZ</b>	4	1st	81.0	1.0	3.1	BF-IB	SR	Cr	Fe	13011-PR3-003
	1,678	Civic			2nd	81.0	1.2	3.3	TUC	CR	Fe	Fe	13011-PR3-004
					Oil	81.0	2.8	2.7	NIFF-S	SR	Cr	Fe	13011-PR4-A02
<b>B18A1</b> <b>B18B1</b>	1,835												
<b>B18A</b>	1,835	Prelude Accord	<b>SWH30375ZZ</b>	4	1st	81.0	1.2	3.1	BF	SR	GN	GN	13011-PK1-751
					2nd	81.0	1.5	3.2	TUC	HB	Fe	Fe	13011-PK1-752
					Oil	81.0	2.8	2.8	NIFF-S	SR	GN	GN	13011-PH3-004 13011-PH3-901 13011-PH5-003 13011-PJ5-601 13011-PK1-003
<b>B20A3</b>	1,958												



Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
<b>R18A1</b>	1,799	Cross Road Civic Stream	<b>SWH30484ZY</b>	4	1st	81.0	1.2	2.5	BF-IB	SR	GN	GN	13011-RNB-A02
					2nd	81.0	1.2	3.3	TUC	CR	Fe	Fe	13011-RNA-A02
					Oil	81.0	2.0	2.5	NIFF-H	SR	GN	GN	13011-RZP-004
<b>R20A</b>	1,997	Accord Step Wagon Stream CR-V											
<b>C20A</b>	1,996	Legend 2000	<b>SWH30449ZZ</b>	V6	1st	82.0	1.2	3.05	BF-IB	SR	Cr	Fe	13011-PH6-003
					2nd	82.0	1.2	3.3	T1	CR	Fe	Fe	
					Oil	82.0	2.8	2.85	NIFF-S	SR	Cr	Fe	
<b>G20A</b>	1,996	Inspire Rafaga Vigor	<b>SWH33001ZZ</b>	5	1st	82.0	1.2	3.05	BF-IB	SR	Cr	Fe	13011-PV0-003
					2nd	82.0	1.2	3.3	T1	CR	Fe	Fe	13011-PV0-004
					Oil	82.0	2.8	2.85	NIFF-S	SR	Cr	Fe	13011-PV0-013 13011-PV0-014
<b>A20A BT</b>	1,995	Accord 2000 Vigor Prelude	<b>SWH30366ZZ</b>	4	1st	82.7	1.5	3.1	BF	SR	GN	GN	13011-PH4-751
					2nd	82.7	1.5	3.2	T1	CR	Cr	Fe	
					Oil	82.7	4.0	3.25	NIFF-S	SR	GN	GN	
		<b>SWH30386ZZ</b>	4	1st	82.7	1.5	3.1	BF	SR	Cr	Fe	13011-PH4-602	
				2nd	82.7	1.5	3.5	TUC	CR	Fe	Fe		
				Oil	82.7	4.0	3.2	NIFF-S	SR	Cr	Fe		
<b>B21A1</b>	2,056	Prelude	<b>SWH30448ZZ</b>	4	1st	83.0	1.2	3.05	BF-IB	SR	Cr	Fe	13011-PK3-A04
					2nd	83.0	1.2	3.1	T1	CR	Cr	Fe	
					Oil	83.0	2.8	2.8	NIFF-S	SR	GN	GN	
<b>C25A1</b>	2,494	Legend 2500	<b>SWH30369ZZ</b>	V6	1st	84.0	1.2	3.1	BF-IB	SR	Cr	Fe	13011-PH7-003
					2nd	84.0	1.2	3.6	T1-IB	CR	Fe	Fe	
					Oil	84.0	4.0	3.25	NIFF-S	SR	Cr	Fe	
<b>B20B4 B20Z2</b>	1,972	CR-V Orthia	<b>SWH30437ZZ</b>	4	1st	84.0	1.2	2.9	BF-IB	SR	GN	GN	13011-P3F-003
					2nd	84.0	1.2	3.4	T1	CR	Fe	Fe	
					Oil	84.0	2.8	2.6	NIFF-S	SR	Cr	Fe	
<b>F22A1 F22A4 F22A6 F22B1 F22B2 F22B6</b>	2,156	Accord Prelude Odyssey	<b>SWH30383ZY</b>	4	1st	85.0	1.2	3.05	BF	SR	Cr	Fe	13011-PT0-B03
					2nd	85.0	1.2	3.4	T1	CR	Fe	Fe	13011-P0A-004
					Oil	85.0	2.8	2.85	NIFF-S	SR	Cr	Fe	13011-PT2-004
<b>F20A</b>	1,997	Ascot Accord	<b>SDH30444ZZ</b>	4	1st	85.0	1.2	3.05	BF	SR	Cr	Fe	13011-PT1-M02
					2nd	85.0	1.2	3.4	T1	CR	Cr	Fe	13011-PT1-506
					Oil	85.0	3.0	3.25	E-BC16	SR	GN	GN	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
<b>F20A</b> <b>F22A</b>	2,156	Accord Prelude Odyssey	<b>SWH30476ZZ</b>	4	1st	85.0	1.2	3.05	BF	SR	Cr	Fe	13011-PT4-X01
					2nd	85.0	1.2	3.4	T1	CR	Fe	Fe	13011-PT4-X02
					Oil	85.0	2.8	2.55	NIFF-S	SR	GN	GN	13011-PT4-X03
<b>F23A1</b> <b>F23A4</b> <b>F23A5</b> <b>F23A7</b>	2,254	Avancier Odyssey	<b>SWH30443ZZ</b>	4	1st	86.0	1.2	2.9	BF	SR	Cr	Fe	13011-PEA-004
					2nd	86.0	1.2	3.4	T1	CR	Fe	Fe	13011-PAA-Y01
					Oil	86.0	2.8	2.85	NIFF-S	SR	Cr	Fe	
<b>J30A1</b> <b>J30A4</b> <b>J30A5</b> <b>JNA1</b>	2,997	Accord	<b>SWH30432ZZ</b>	V6	1st	86.0	1.2	2.9	BF	SR	Cr	Fe	13011-P8A-A01
					2nd	86.0	1.2	3.4	T1	CR	Fe	Fe	
					Oil	86.0	2.8	2.85	NIFF-S	SR	Cr	Fe	
<b>K20A1</b> <b>K20A2</b> <b>K20A3</b> <b>K20Z1</b> <b>K20Z2</b> <b>K20Z3</b>	1,998	Civic	<b>SWH30454ZZ</b>	4	1st	86.0	1.2	2.9	BF	SR	Cr	Fe	13011-PNE-G02
					2nd	86.0	1.2	3.4	T1	CR	Fe	Fe	13011-PNF-G01
					Oil	86.0	2.0	2.5	NIFF-H	SR	GN	GN	
<b>K20C</b> <b>K20C1</b> <b>K20C4</b>	1,996	Avancier Accord Acura RDX	<b>SWH33007ZZ</b> <b>(TCC-Q-0743)</b>	4	1st	86.0	1.5	2.7	BF-IB	SR	GN	GN	13011-6B2-A01
					2nd	86.0	1.0	2.7	TUC	SR	Cr	Fe	
					Oil	86.0	2.0	2.25	NIFF-H	SR	GN	GN	
<b>C27A1</b> <b>C27A4</b>	2,675	Accord Legend	<b>SWH30370ZZ</b>	V6	1st	87.0	1.2	3.1	BF-IB	SR	Cr	Fe	13011-PL2-003
					2nd	87.0	1.2	3.5	T1-IB	CR	Fe	Fe	13011-P0G-A01
					Oil	87.0	4.0	3.15	NIFF-S	SR	Cr	Fe	
<b>H22A1</b> <b>H22A4</b>	2,157	Accord Prelude	<b>SWH30433ZZ</b>	4	1st	87.0	1.2	3.1	BF-IB	SR	GN	GN	13011-P5M-003
					2nd	87.0	1.2	3.2	TUC	CR	Cr	Fe	13011-PI3-004
					Oil	87.0	2.8	2.55	NIFF-S	SR	GN	GN	
<b>K24A2</b>	2,354	TSX Accord	<b>SWH30435ZZ</b>	4	1st	87.0	1.2	3.1	BF-IB	SR	GN	GN	13011-RBB-006
					2nd	87.0	1.2	3.4	TUC	HB	Cr	Fe	
					Oil	87.0	2.5	2.45	NIFF-H	SR	GN	GN	
<b>K24A3</b> <b>K24A4</b> <b>K24A8</b> <b>K24Z1</b>	2,354	CR-V	<b>SWH30466ZZ</b>	4	1st	87.0	1.2	3.1	BF-IB	SR	Cr	Fe	13011-RAA-A01
					2nd	87.0	1.2	3.4	TUC	CR	Fe	Fe	13011-RAD-004
					Oil	87.0	2.0	2.5	NIFF-H	SR	Cr	Fe	13011-PPA-004
<b>K24Z3</b>	2,354	TSX	<b>SWH30467ZZ</b>	4	1st	87.0	1.2	2.7	BF-IB	SR	GN	GN	13011-RL5-A02(cyl)
					2nd	87.0	1.2	3.4	TUC	HB	Cr	Fe	
					Oil	87.0	2.0	2.45	NIFF-H	SR	GN	GN	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference					
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower						
<b>K24Z3</b> <b>K24Z6</b> <b>K24Z7</b> <b>K24W1</b> <b>K24W2</b> <b>K24W3</b> <b>K24W7</b> <b>K24W9</b>	2,354	ILX	<b>SWH30488ZZ</b>	4	1st	87.0	1.2	2.65	BF-IB	SR	Cr	Fe	13011-R40-A01					
		TLX			2nd	87.0	1.2	3.4	TUC	HB	Cr	Fe						
		TSX			Oil	87.0	2.0	2.5	NIFF-H	SR	Cr	Fe						
		Civic Si	<b>SWH33003ZZ</b>	4	1st	87.0	1.2	2.7	BF-IB	SR	GN	GN		13011-R40-A12				
		CR-V			2nd	87.0	1.0	2.5	TUC	SR	Fe	Fe						
		Accord			Oil	87.0	2.0	2.45	NIFF-H	SR	GN	GN						
		Odyssey			1st	87.0	1.2	2.7	BF-IB	SR	GN	GN			13011-5A2-A11 13011-RDF-A11			
					2nd	87.0	1.0	2.5	TUC	SR	Fe	Fe						
					Oil	87.0	2.0	2.2	NIFF-H	SR	GN	GN						
<b>K24A</b> <b>K24W</b>	2,354	CR-V	<b>TCC-R-0836</b>	4	1st	87.0	1.2		BF-IB	SR	GN	GN	13011-RZA-004					
		Odyssey			2nd	87.0	1.2		TUC	SR	Fe	Fe						
					Oil	87.0	2.0		NIFF-H	SR	GN	GN						
<b>J32A2</b> <b>J35A1</b> <b>J35A3</b> <b>J35A4</b> <b>J34A6</b> <b>J35A7</b> <b>J35A8</b> <b>J35A9</b> <b>J35Z1</b> <b>J35Z2</b> <b>J35Z3</b> <b>J35Z4</b> <b>J35Z6</b>	3,210	Odyssey	<b>SWH30438ZZ</b>	V6	1st	89.0	1.2	3.05	BF	SR	Cr	Fe	13011-P8F-A01					
	3,471				2nd	89.0	1.2	3.4	T1	CR	Fe	Fe						
					Oil	89.0	2.8	2.85	NIFF-S	SR	Cr	Fe						
	<b>C32A1</b>				3,206	Legend	<b>SWH30371ZZ</b>	V6	1st	90.0	1.2	3.3		BF-IB	SR	Cr	Fe	13011-PY3-003 13011-PY3-004
						Acura TL			2nd	90.0	1.2	3.7		T1	CR	Fe	Fe	
									Oil	90.0	2.8	2.85		NIFF-S	SR	GN	GN	
	<b>C30A</b>				2,977	NSX	<b>SDH30469ZZ</b>	V6	1st	90.0	1.2	3.1		BF-IB	SR	GN	GN	13011-RKG-E020-M4
									2nd	90.0	1.2	3.4		TUC	HB	Cr	Fe	
									Oil	90.0	2.0	2.75		E-BC16	SR	GN	GN	

## ● Gasoline-engine Automobiles ● ガソリン車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>4XC-1</b>	1,471	Gemini	<b>SWI10151ZZ</b>	4	1st Oil	77.0	1.5	3.3	T1-IB	HB	Cr	Fe	8-94141-947-0
						77.0	2.8	3.1	NIFF-S	SR	GN	GN	
<b>4XE1 4XE1W</b>	1,588	Panero Gemini	<b>SWI10149ZZ</b>	4	1st 2nd Oil	80.0	1.2	3.1	BF	SR	Cr	Fe	8-94370-434-0
						80.0	1.2	3.3	T1	CR	Fe	Fe	
						80.0	3.0	2.5	NIFF-S	SR	Cr	Fe	
<b>G161AB G161B G161Z</b>	1,584	Florian Elf	<b>SWI10012ZX</b>	4	1st 2nd Oil	82.0	2.0	3.05	BF	SR	Cr	Fe	8-94206-294-0 12121-099 12181-133 12181-141 8-94126-639-0(cyl)
						82.0	2.0	3.8	T1	CR	Fe	Fe	
						82.0	4.0	3.8	NIFF-S	SR	Cr	Fe	
<b>G161Z</b>	1,584	LUV	<b>SWI10097ZZ</b>	4	1st 2nd Oil	82.0	1.5	3.45	BF	SR	Cr	Fe	8-94244-403-0(cyl)
						82.0	1.5	3.8	T1	CR	Cr	Fe	
						82.0	4.0	3.25	NIFF-S	SR	Cr	Fe	
<b>G180</b>	1,817	LUV	<b>SWI10056ZZ</b>	4	1st 2nd Oil	84.0	2.0	3.8	BF	CR	Cr	Fe	8-94208-205-0 8-94216-640-0(cyl)
						84.0	2.0	4.0	T1	CR	Fe	Fe	
						84.0	4.0	3.8	NIFF-S	SR	Cr	Fe	
<b>G180W</b>	1,817	Gemini 1800 sports	<b>SWI10087ZZ</b>	4	1st 2nd Oil	84.0	2.0	3.8	BF	CR	Cr	Fe	8-94224-555-0
						84.0	2.0	3.8	T1	CR	Cr	Fe	
						84.0	4.0	3.8	NIFF-S	SR	Cr	Fe	
<b>G180Z 4ZB</b>	1,817	Aska Florian	<b>SWI10098ZZ</b>	4	1st 2nd Oil	84.0	1.5	3.5	BF	SR	Cr	Fe	8-94141-443-0 8-94249-218-0 8-94244-404-0(cyl)
						84.0	1.5	3.8	T1	CR	Cr	Fe	
						84.0	4.0	3.25	NIFF-S	SR	Cr	Fe	
<b>X22SE 22LE C22NE C22SE</b>	2,198	Amigo Rodeo Elf 2.2	<b>SWI10205ZX</b>	4	1st 2nd Oil	86.0	1.5	3.45	BF	SR	Cr	Fe	8-92062-027-0 8-92064-589-0
						86.0	1.5	3.5	TUC	CR	Fe	Fe	
			<b>SWI10206ZZ</b>	4	1st 2nd Oil	86.0	1.2	2.7	BF	SR	GN	GN	8-92065-115-0
						86.0	1.5	3.5	TUC	CR	Fe	Fe	
						86.0	2.5	2.85	NIFF-S	SR	Cr	Fe	
<b>G200</b>	1,949	Piazza 117Coupe	<b>SWI10084ZZ</b>	4	1st 2nd Oil	87.0	2.0	3.8	BF	CR	Cr	Fe	8-94216-641-0(cyl)
						87.0	2.0	3.8	T1	CR	Cr	Fe	
						87.0	4.0	3.3	NIFF-S	SR	Cr	Fe	
<b>G200ZN</b>	1,949	LUV Trooper	<b>SWI10096ZZ</b>	4	1st 2nd Oil	87.0	1.5	3.5	BF	SR	Cr	Fe	8-94231-817-0(cyl)
						87.0	1.5	3.8	T1	CR	Cr	Fe	
						87.0	4.0	3.3	NIFF-S	SR	Cr	Fe	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
<b>C24SE</b>	2,405	D-MAX 2.4	<b>SWI10220ZZ</b>	4	1st	87.5	1.2	3.1	BF	SR	GN	GN	8-93359-241-0
					2nd	87.5	1.5	3.7	TUC	CR	Fe	Fe	
					Oil	87.5	2.5	2.7	NIFF-H	SR	Cr	Fe	
<b>4ZC1</b>	1,944	Fargo Aska	<b>SWI10133ZZ</b>	4	1st	88.0	1.5	3.45	BF	SR	Cr	Fe	8-94119-545-0
					2nd	88.0	1.5	3.8	T1	CR	Fe	Fe	8-94235-878-0
					Oil	88.0	4.0	3.3	NIFF-S	SR	Cr	Fe	8-94409-555-0
<b>LL2</b>	2,827	Trooper	<b>SWI10154ZZ</b>	6	1st	89.0	1.5	4.05	BF	CR	Cr	Fe	8-14089-059-0
					2nd	89.0	2.0	4.05	T1-RC	CR	Fe	Fe	
					Oil	89.0	4.76	3.9	NIFF-S	SR	Cr	Fe	
<b>LN2</b>	2,197	Hombre GM Truck	<b>SWI10195ZZ</b>	4	1st	89.0	1.5	4.05	BF	CR	Cr	Fe	8-12363-179-0
					2nd	89.0	1.5	3.6	TUC	CR	Fe	Fe	
					Oil	89.0	3.0	2.95	NIFF-S	SR	Cr	Fe	
<b>4ZD1</b>	2,254	Trooper	<b>SWI10123ZZ</b>	4	1st	89.3	1.5	3.3	BF	SR	GN	GN	8-94153-966-0
					2nd	89.3	1.5	3.8	T1	HB	Cr	Fe	8-94136-778-1
					Oil	89.3	4.0	3.05	NIFF-S	SR	GN	GN	
<b>4ZE1</b>	2,559	Mu Bighorn	<b>SWI10144ZZ</b>	4	1st	92.6	1.5	3.3	BF	SR	GN	GN	8-94405-614-0
					2nd	92.6	1.5	4.0	T1	CR	Cr	Fe	8-94446-957-1
					Oil	92.6	4.0	3.05	NIFF-S	SR	GN	GN	
<b>6VD1</b>	3,165	Trooper Bighorn	<b>SWI10185ZZ</b>	6	1st	93.4	1.5	3.45	BF	SR	Cr	Fe	8-97162-198-0
					2nd	93.4	1.5	4.0	TUC	CR	Fe	Fe	
					Oil	93.4	4.0	3.15	NIFF-S	SR	Cr	Fe	
<b>6VE1</b>	3,494	Rodeo Sport	<b>SWI10191ZZ</b>	6	1st	93.4	1.5	3.25	BF	SR	Cr	Fe	8-97136-135-0
					2nd	93.4	1.5	4.0	T1	CR	Fe	Fe	
					Oil	93.4	3.0	2.85	NIFF-S	SR	Cr	Fe	
	Axiom (SUV)	<b>SDI10217ZZ</b>	6	1st	93.4	1.2	3.5	BF-IB	SR	GN	GN	8-97371-553-0	
				2nd	93.4	1.2	3.8	TUC	HB	Cr	Fe		
				Oil	93.4	2.0	2.75	E-BC16	SR	GN	GN		
<b>6VD1-2</b>	3,165	Wizard Bighorn Mu	<b>SWI10230ZZ</b>	6	1st	93.4	1.5	3.3	BF	SR	GN	GN	8-97170-113-0
					2nd	93.4	1.5	4.0	T1	CR	Cr	Fe	
					Oil	93.4	3.0	2.85	NIFF-S	SR	GN	GN	
<b>LF6</b>	4,293	Hombre	<b>SWI10196ZZ</b>	V6	1st	101.6	1.5	3.65	BF	SR	Cr	Fe	8-12522-848-0 (cyl)
					2nd	101.6	1.5	4.2	TUC	CR	Fe	Fe	
					Oil	101.6	3.0	3.35	NIFF-S	SR	Cr	Fe	
<b>LF8</b>	5,735	Hombre	<b>SWI10197ZZ</b>	V8	1st	101.6	1.5	3.65	BF	SR	Cr	Fe	8-12522-848-0 (cyl)
					2nd	101.6	1.5	4.2	TUC	CR	Fe	Fe	
					Oil	101.6	3.0	3.35	NIFF-S	SR	Cr	Fe	



## ● Diesel-engine Automobiles ● ディーゼル車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>3KA1 3KB1</b>	877	For Industrial Machine	<b>SDI10105ZZ</b>	3	1st	70.0	2.0	2.9	BF	HB	Cr	Fe	8-94131-493-0 (cyl)
					2nd	70.0	1.5	3.1	T1	CR	Fe	Fe	
					Oil	70.0	3.5	3.25	E-BC3	CR	Cr	Fe	
<b>3KC1</b>	877	For Industrial Machine	<b>SDI10102ZZ</b>	3	1st	74.0	2.0	2.9	BF	HB	Cr	Fe	5-12121-031-0 (cyl)
					2nd	74.0	1.5	3.1	T1	CR	Fe	Fe	
					Oil	74.0	3.5	3.25	E-BC3	CR	Cr	Fe	
<b>4EC1</b>	1,487	Gemini	<b>SDI10143ZZ</b>	4	1st	76.0	2.0	3.1	BF	HB	Cr	Fe	8-94144-187-0 8-94332-767-1
					2nd	76.0	1.5	3.1	T1	CR	Cr	Fe	
					Oil	76.0	3.0	3.25	E-BC16	SR	GN	GN	
<b>4FE1</b>	1,487	Fork Lift	<b>SDI10212ZZ</b>	4	1st	76.3	2.0	3.5	BF	CR	Cr	Fe	8-94169-748-0
					2nd	76.3	2.0	3.5	T1	CR	Cr	Fe	
					Oil	76.3	4.0	3.7	E-BC16	CR	Cr	Fe	
<b>4LC1</b>	1,731	For Industrial Machine	<b>SDI10213ZX</b>	4	1st	77.4	2.0		BF	SR	GN	GN	8-97034-609-0
					2nd	77.4	1.5	3.2	T1	CR	Fe	Fe	
					Oil	77.4	3.5	3.25	E-BC16	HB	Cr	Fe	
<b>4EE2</b>	1,686	Gemini	<b>SDI10202ZZ</b>	4	1st	79.0	2.0	2.7	BF	SR	GN	GN	8-94381-709-1
					2nd	79.0	1.5	3.3	TUC	CR	Fe	Fe	
					Oil	79.0	3.0	3.25	E-BC16	SR	GN	GN	
<b>RZ4E-TC</b>	1,897	D-MAX	<b>SDI10234ZZ</b>	4	1st	80.0	2.0	2.7	BF-K2	SR	PC	GN	8-98333-347-0
					2nd	80.0	1.5	2.7	TUC	SR	GN	GN	
					Oil	80.0	2.0	2.74	E-BC16	SR	GN	GN	
<b>3KR1</b>	1,422	For Industrial Machine	<b>SDI10113ZZ</b>	3	1st	81.0	2.0	3.4	BF	HB	Cr	Fe	5-12121-029-0 (cyl)
					2nd	81.0	1.75	3.4	T1	CR	Fe	Fe	
					Oil	81.0	4.0	3.9	E-BC3	CR	Cr	Fe	
<b>C220</b>	2,207	Truck Elf TLD11 TLD60 TKD11 TLD30 TLD30V Bus BLD11 TLD21B For Chromard Liner	<b>SDI10013ZZ</b>	4	1st	83.0	2.0	3.4	T1	CR	Fe	Fe	9-12181-100-0 9-12181-057-0
					2nd	83.0	2.0	3.4	T1	CR	Fe	Fe	
					3rd	83.0	2.0	3.4	TUC	CR	Fe	Fe	
					Oil 1	83.0	4.0	3.8	E-C1	CR	Fe	Fe	
					Oil 2	83.0	4.0	3.4	BC1	CR	Fe	Fe	
<b>C221</b>	2,207	Truck Elf For Chromard Liner	<b>SDI10017ZZ</b>	4	1st	83.0	2.0	3.4	T1	CR	Fe	Fe	5-12181-122-0
					2nd	83.0	2.0	3.4	T1	CR	Fe	Fe	
					3rd	83.0	2.0	3.4	TUC	CR	Fe	Fe	
					Oil 1	83.0	5.0	3.8	E-BC3	CR	Fe	Fe	
					Oil 2	83.0	5.0	3.4	BC1	CR	Fe	Fe	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>C201PT</b>	2,207	Truck Elf	<b>SDI10018ZX</b>	4	1st	83.0	2.0	3.1	BF	SR	GN	GN	5-12181-005-0
					2nd	83.0	2.0	3.4	T1	CR	Cr	Fe	5-12121-013-0 (cyl)
					3rd	83.0	2.0	3.4	TUC	CR	Fe	Fe	
					Oil 1	83.0	5.0	3.8	E-BC16	HB	Cr	Fe	
					Oil 2	83.0	5.0	3.4	BC1	CR	Fe	Fe	
<b>3LD1</b>	1,496	For Industrial Machine	<b>SDI10229ZZ</b>	3	1st	83.1	2.0	3.1	BF	SR	GN	GN	8-97113-503
					2nd	83.1	1.75	3.6	TUC	CR	Fe	Fe	
					Oil	83.1	4.0	4.35	E-BC16	SR	GN	GN	
<b>4FB1</b>	1,817	Gemini	<b>SDI10086ZX</b>	4	1st	84.0	2.5	3.25	BF	SR	Cr	Fe	8-94224-221-0(cyl)
					2nd	84.0	2.0	3.5	T1	CR	Cr	Fe	
					Oil	84.0	4.0	4.35	E-BC16	SR	GN	GN	
<b>4FC1(T)</b>	1,995	Aska Fargo	<b>SDI10109ZX</b>	4	1st	84.0	2.5	3.5	BF-K2	HB	Cr	Fe	8-94139-973-0 (cyl)
					2nd	84.0	2.0		T1	SR	GN	GN	
					Oil	84.0	4.0	4.2	E-BC3	CR	Cr	Fe	
<b>4JD1</b>	2,800	Mu	<b>SDI10121ZX</b>	4	1st	84.0	2.0	3.1	BF	SR	GN	GN	8-94318-702-0 (cyl)
					2nd	84.0	2.0	3.5	T1	CR	Cr	Fe	
					Oil	84.0	4.0	4.35	E-BC16	SR	GN	GN	
<b>4LE1</b>	2,179	For Industrial Machine	<b>SDI10216ZX</b>	4	1st	85.0	2.0		BF	SR	GN	GN	8-97141-208-0
					2nd	85.0	1.75	3.7	T1-IB	CR	Fe	Fe	
					Oil	85.0	4.0	4.1	E-BC16	SR	Cr	Fe	
<b>C240</b>	2,369	Truck Elf Florian Journey For Chromard Liner	<b>SDI10047ZZ</b>	4	1st	86.0	2.0	3.5	T1	CR	Fe	Fe	9-12181-138-0
					2nd	86.0	2.0	3.5	T1	CR	Fe	Fe	
					3rd	86.0	2.0	3.5	TUC	CR	Fe	Fe	
					Oil 1	86.0	5.0	3.9	E-BC3	CR	Fe	Fe	
					Oil 2	86.0	5.0	3.5	BC1	CR	Fe	Fe	
<b>C190</b>	1,951	Truck Elf For Chromard Liner	<b>SDI10051ZZ</b>	4	1st	86.0	2.0	3.5	T1	CR	Fe	Fe	9-12181-603-0
					2nd	86.0	2.0	3.5	T1	CR	Fe	Fe	5-12181-027-0
					3rd	86.0	2.0	3.5	TUC	CR	Fe	Fe	9-12181-603-0
<b>C240</b>	2,369				Oil	86.0	5.0	4.2	E-BC3	CR	Fe	Fe	9-12181-605-0
<b>C190G</b>	1,951	Florian Van	<b>SDI10083ZX</b>	4	1st	86.0	2.0	3.25	BF	SR	Cr	Fe	5-12121-008-0 (cyl)
					2nd	86.0	2.0	3.5	T1	CR	Cr	Fe	
					3rd	86.0	2.0	3.5	TUC	CR	Cr	Fe	
					Oil	86.0	5.0	4.3	E-BC3	CR	Cr	Fe	
<b>C190</b>	1,951	Truck Elf 150	<b>SDI10093ZZ</b>	4	1st	86.0	2.5	4.0	BF	HB	Cr	Fe	8-94104-954-0 (cyl)
					2nd	86.0	2.0	3.5	T1-IC	CR	Cr	Fe	5-12121-022-0 (cyl)
<b>C240</b>	2,369				Oil	86.0	5.0	4.3	E-BC3	CR	Cr	Fe	5-12121-022-01 (cyl)
<b>C190</b>	1,951	Truck Elf 150 For Chromard	<b>SDI10095ZZ</b>	4	1st	86.0	2.5	3.8	T1	CR	Fe	Fe	8-94104-949-0 (cyl)
					2nd	86.0	2.0	3.5	TUC	CR	Fe	Fe	5-12121-021-0 (cyl)
<b>C240</b>	2,369	Liner			Oil	86.0	5.0	4.2	E-BC3	CR	Fe	Fe	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>C240PKG</b>	2,369	Truck Elf For Chromard Liner	<b>SDI10122ZZ</b>	4	1st	86.0	2.5	3.8	BF	CR	Fe	Fe	8-94471-442-0
					2nd	86.0	2.0	3.5	TUC	CR	Fe	Fe	
					Oil	86.0	5.0	4.2	E-BC3	CR	Fe	Fe	
<b>C223</b>	2,238	117 Coupe	<b>SDI10089ZX</b>	4	1st	88.0	2.5		BF	SR	GN	GN	5-12121-017-0(cyl) 8-94100-355-0 (cyl)
					2nd	88.0	2.0		TUC	SR	GN	GN	
					Oil	88.0	4.5	4.7	E-BC3	CR	Cr	Fe	
		Rodeo Bighorn For Chromard Liner	<b>SDI10099ZX</b>	4	1st	88.0	2.5		BF	SR	GN	GN	5-12121-024-0(cyl)
					2nd	88.0	2.0		TUC	SR	GN	GN	
					Oil	88.0	4.5	4.7	E-BC3	CR	Fe	Fe	
<b>C223 4FD1</b>	2,238	Rodeo Bighorn	<b>SDI10101ZX</b>	4	1st	88.0	2.0	3.25	BF	SR	Cr	Fe	8-94250-730-0 (cyl)
					2nd	88.0	2.0	3.55	TUC	CR	Cr	Fe	
					Oil	88.0	4.0	4.35	E-BC16	SR	GN	GN	
<b>C223</b>	2,238	Rodeo Bighorn For Chromard Liner	<b>SDI10103ZZ</b>	4	1st	88.0	2.0	3.5	BF	CR	Fe	Fe	8-94253-736-0 (cyl) 8-94408-207-0 (cyl)
					2nd	88.0	2.0	3.55	TUC	CR	Fe	Fe	
					Oil	88.0	4.0	4.0	E-BC3	CR	Fe	Fe	
<b>C223T</b>	2,238	Truck Faster Hi Pack Van	<b>SDI10111ZX</b>	4	1st	88.0	2.5		BF	SR	GN	GN	8-94158-084-0(cyl)
					2nd	88.0	2.0	3.55	TUC	CR	Cr	Fe	
					Oil	88.0	4.0	4.0	E-BC3	CR	Cr	Fe	
			<b>SDI10119ZZ</b>	4	1st	88.0	2.5	3.5	BF-K2	HB	Cr	Fe	8-94468-521-0
					2nd	88.0	2.0	3.4	T1	HB	Cr	Fe	
					Oil	88.0	4.0	4.0	E-BC3	HB	Cr	Fe	
<b>D201</b>	2,229	For Industrial Machine	<b>SDI10124ZX</b>	4	1st	88.0	2.0	3.1	BF	SR	GN	GN	8-94417-175-0
					2nd	88.0	2.0	3.7	T1-IC	CR	Cr	Fe	
					3rd	88.0	2.0	3.7	B1-TUC	CR	Fe	Fe	
					Oil	88.0	4.0	4.15	E-BC16	SR	GN	GN	
<b>4FG1-1</b>	2,771	Fargo	<b>SDI10272ZZ</b>	4	1st	89.3	2.0	3.1	BF	SR	GN	GN	8-94469-634-0
					2nd	89.3	2.0	3.7	T1	CR	Cr	Fe	
					Oil	89.3	4.0	4.15	E-BC16	SR	Cr	Fe	
<b>4JB1</b>	2,771	Truck Elf 150 For Chromard Liner	<b>SDI10110ZX</b>	4	1st	93.0	2.0	3.5	BF	SR	GN	GN	8-94247-867-0(cyl) 5-87311082-0(cyl) 97710771(cyl)
					2nd	93.0	2.0	4.0	TUC	CR	Fe	Fe	
					Oil	93.0	4.0	4.35	E-BC16	SR	GN	GN	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>4JK1-TC</b>	2,499	Truck Elf Mu Rodeo D-MAX For Chromard Liner	<b>SDI10211ZZ</b>	4	1st	93.0	2.0	4.0	BF	CR	Fe	Fe	8-97319-087-0
					2nd	93.0	2.0	4.0	TUC	CR	Fe	Fe	5-87310-519-0
					Oil	93.0	4.0	4.35	E-BC16	SR	GN	GN	
<b>4JG1</b>	3,059	Truck Elf Bighorn For Chromard Liner	<b>SDI10129ZZ</b>	4	1st	95.4	2.0	4.0	BF	CR	Fe	Fe	8-94379-486-0
					2nd	95.4	2.0	4.0	T1	CR	Fe	Fe	
					Oil	95.4	4.0	4.1	E-BC3	CR	Fe	Fe	
<b>4JG2</b>	3,059	Bighorn Truck Elf For Chromard Liner	<b>SDI10130ZZ</b>	4	1st	95.4	2.296	4.0	BF-K1	CR	Fe	Fe	8-94370-449-0
					2nd	95.4	2.0	4.0	T1	CR	Fe	Fe	
					Oil	95.4	4.0	4.1	E-BC3	CR	Fe	Fe	
			<b>SDI10141ZZ</b>	4	1st	95.4	2.5	4.0	BF-IB	CR	Fe	Fe	8-97080-215-0
					2nd	95.4	2.0	4.0	T1-IB	CR	Fe	Fe	
					Oil	95.4	4.0	4.45	E-BC16	SR	GN	GN	
<b>4JH1</b>	3,059	D-MAX For Chromard Liner	<b>SDI10193ZZ</b>	4	1st	95.4	2.5	4.0	BF	CR	Fe	Fe	8-97941-122-0
					2nd	95.4	2.0	3.8	TUC	CR	Fe	Fe	8-97259-941-0
					Oil	95.4	3.0	3.25	E-BC16	SR	GN	GN	
<b>4JJ1-TC</b>	2,999	Truck Elf	<b>SDI10215ZZ</b>	4	1st	95.4	2.0	3.45	BF-K2	SR	GN	GN	8-98053-579-0
					2nd	95.4	2.0	4.4	T1-IC	CR	Cr	Fe	
					Oil	95.4	3.0	3.0	E-BC16	SR	GN	GN	
			<b>SDI10210ZY</b>	4	1st	95.4	2.0	3.45	BF-K2	SR	GN	GN	8-97388-734-0
					2nd	95.4	1.5	4.0	T1	CR	Fe	Fe	8-98096-676-0
					Oil	95.4	3.0	3.0	E-BC16	SR	GN	GN	8-98173-004-0
			<b>SDI10209ZZ</b>	4	1st	95.4	2.0	3.45	BF-K2	SR	GN	GN	8-98057-222-0
					2nd	95.4	1.5	3.5	T1	SR	GN	GN	8-98171-040-0
					Oil	95.4	3.0	3.0	E-BC16	SR	GN	GN	8-98249-715-0
<b>4JX1</b>	2,999	Mu Bighorn Wizard	<b>SDI10171ZZ</b>	4	1st	95.4	2.448	4.0	BF-K1	HB	Cr	Fe	8-97184-533-0
					2nd	95.4	2.0	4.0	T1-IC	CR	Cr	Fe	
					Oil	95.4	4.0	4.35	E-BC16	SR	GN	GN	
<b>4KH1</b>	2,999	Sweeper Truck	<b>SDI10224ZZ</b>	4	1st	95.4	2.5	3.5	BF	SR	GN	GN	8-98188-644-0
					2nd	95.4	2.0	3.5	TUC	SR	GN	GN	
					Oil	95.4	3.0	3.0	E-BC16	SR	GN	GN	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
DA120	6,126	TX TS TW TXD	SDI10028ZX	6	1st	100.0	2.5		P	SR	GN	GN	12181-063
					2nd	100.0	2.5	4.0	T1	CR	Fe	Fe	12181-091
					3rd	100.0	2.5	4.0	T1	CR	Fe	Fe	
					Oil 1	100.0	4.0	4.1	E-C1	CR	Cr	Fe	
					Oil 2	100.0	4.0	4.0	BC1	CR	Fe	Fe	
	Bus BA4341P · 343 BA351 · BA541 BA543 BA551 BB341 · BA351 BA551 · BB351 BX352 · 531 BX552 For Industrial Machine	SDI10061ZX	6	1st	100.0	2.5	3.85	BF	SR	Cr	Fe	1-12181-036-0	
				2nd	100.0	2.5	4.4	T1-IC	CR	Fe	Fe	1-12181-087-0	
				3rd	100.0	2.5	4.4	BI-TUC	CR	Fe	Fe	1-12181-109-0	
				Oil	100.0	5.0	4.95	E-BC16	SR	GN	GN	1-12181-128-0	
													1-12121-001-0 (cyl) 1-12181-005-0 (cyl)
	For Industrial Machine	SDI10076ZZ	6	1st	100.0	3.0	4.4	BF	CR	Cr	Fe	1-12181-040-0	
				2nd	100.0	2.5	4.4	T1-IC	CR	Fe	Fe	1-12121-007-0 (cyl)	
				3rd	100.0	2.5	4.4	BI-TUC	CR	Fe	Fe		
				Oil	100.0	5.0	4.8	E-BC3	CR	Cr	Fe		
	DA220	4,084	For Industrial Machine	SDI10029ZX	4	1st	100.0	2.5		P	SR	GN	GN
2nd						100.0	2.5	4.0	T1	CR	Fe	Fe	
3rd						100.0	2.5	4.0	T1	CR	Fe	Fe	
Oil 1						100.0	4.0	4.1	E-C1	CR	Cr	Fe	
Oil 2						100.0	4.0	4.0	BC1	CR	Fe	Fe	
SDI10062ZX		4	1st	100.0	2.5		BF	SR	GN	GN	1-12181-006-0		
			2nd	100.0	2.5	4.4	T1-IC	CR	Fe	Fe	1-12181-038-0		
			3rd	100.0	2.5	4.4	BI-TUC	CR	Fe	Fe	1-12181-111-0		
			Oil	100.0	5.0	4.8	E-BC3	CR	Cr	Fe	1-12121-001-0 (yl)		
DA640S(T)	6,373	Fork Lift	SDI10057ZZ	6	1st	102.0	3.5	4.4	BF-K1	CR	Cr	Fe	1-12181-014-0
					2nd	102.0	2.5	4.4	T1-IC	CR	Fe	Fe	1-12121-035-0
					3rd	102.0	2.5	4.4	BI-TUC	CR	Fe	Fe	1-12181-011-0 (cyl)
					Oil	102.0	5.0	4.8	E-BC3	CR	Cr	Fe	
DA640PP	For Industrial Machine	SDI10066ZY	6	1st	102.0	3.0	4.4	BF	CR	Cr	Fe	1-12181-034-0	
				2nd	102.0	2.5	4.4	T1-IC	CR	Fe	Fe	1-12121-010-0 (cyl)	
				3rd	102.0	2.5	4.4	BI-TUC	CR	Fe	Fe		
				Oil	102.0	5.0	4.8	E-BC3	CR	Cr	Fe		

DAIHATSU  
SUBARU  
HINO  
HONDA  
ISUZU  
KOMATSU  
MAZDA  
MITSUBISHI  
NISSAN  
UD TRUCKS  
SUZUKI  
TOYOTA  
DAEWOO  
HYUNDAI  
KIA  
CHINA  
ASIA  
CHRYSLER  
FORD  
G M  
EUROPE

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
<b>DA640</b>	6,373	Truck	<b>SDI10036ZX</b>	6	1st	102.0	2.5		P	SR	GN	GN	1-12161-064-0
		BA			2nd	102.0	2.5	4.0	T1	CR	Fe	Fe	1-12181-092-0
		BF			3rd	102.0	2.5	4.0	T1	CR	Fe	Fe	
		BS TXD			Oil 1	102.0	4.0	4.1	E-C1	CR	Cr	Fe	
					Oil 2	102.0	4.0	4.0	BC1	CR	Fe	Fe	
					Bus	<b>SDI10063ZX</b>	6	1st	102.0	2.5	4.1	BF	SR
	BA741 BA741P	2nd	102.0	2.5	4.4			T1	CR	Fe	Fe	1-12181-074-0	
	BA743 BB751	3rd	102.0	2.5	4.4			TUC	CR	Fe	Fe	1-12181-088-0	
	BR10 BR10P	Oil	102.0	5.0	4.8			E-BC3	CR	Cr	Fe	1-12181-110-0	
	BR20 BR20P BR351 BR351P BX721E BX731 BX752											1-12121-009-0 (cyl)	
<b>6BD1MT</b>	5,393	For Marine Engine	<b>SDI10085ZZ</b>	6	1st	102.0	3.5	4.4	BF-K1	CR	Fe	Fe	5-12121-015-0 (cyl)
		For Chromard Liner			2nd	102.0	2.5	4.4	T1	CR	Fe	Fe	
					Oil	102.0	5.0	4.8	E-BC3	CR	Fe	Fe	
<b>4BD2</b>	3,856	For Chromard Liner	<b>SDI10147ZX</b>	4	1st	102.0	3.0	3.9	BF	SR	GN	GN	8-97117-686-0
					2nd	102.0	2.0	3.7	T1	SR	GN	GN	
					Oil	102.0	4.0	4.45	E-BC16	SR	GN	GN	
<b>6BD1 6BB1</b>	5,393	Truck	<b>SDI10065ZX</b>	6	1st	102.0	3.0	3.9	BF	SR	GN	GN	5-12181-023-2
		SBR320 · 380			2nd	102.0	2.5	4.4	TUC	CR	Fe	Fe	5-12121-055-0 (cyl)
		400 · 450 · 500			Oil	102.0	5.0	4.95	E-BC16	SR	GN	GN	
		JBR FBR370 YBR360 310 Tractor VBR320 VBR322 For Chromard Liner											
<b>4BB1</b>	3,595	Elf	<b>SDI10070ZX</b>	4	1st	102.0	3.0	3.9	BF	SR	GN	GN	5-12181-024-1
		Journey			2nd	102.0	2.5	4.4	TUC	CR	Fe	Fe	5-12121-005-0 (cyl)
		For Chromard Liner			Oil	102.0	5.0	4.95	E-BC16	SR	GN	GN	5-12181-003-0
<b>4BC1 4BD1 4BD1-T</b>	3,268	Truck Elf	<b>SDI10090ZX</b>	4	1st	102.0	3.0	3.9	BF	SR	GN	GN	5-12121-004-0 (cyl)
		Journey			2nd	102.0	2.5	4.4	TUC	CR	Fe	Fe	
		For Chromard Liner			Oil	102.0	5.0	4.95	E-BC16	SR	GN	GN	
<b>4BD1L</b>	3,856	Journey	<b>SDI10125ZX</b>	4	1st	102.0	3.0	3.9	BF	SR	GN	GN	8-94326-650-0
		For Chromard Liner			2nd	102.0	2.5	4.4	TUC	CR	Fe	Fe	
					Oil	102.0	4.0	4.45	E-BC16	SR	GN	GN	



Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>8GF1</b>	6,599	Pick up Truck SUV	<b>SDI10183ZY</b>	V8	1st	103.0	2.948	3.9	BF-K1	SR	GN	GN	8-97250-331-2
					2nd	103.0	2.0	4.4	T1-IC	CR	Cr	Fe	
					Oil	103.0	3.0	3.0	E-BC16	SR	GN	GN	
<b>6BF1</b>	6,130	Truck Forward For Chromard Liner	<b>SDI10082ZX</b>	6	1st	105.0	3.0	3.7	BF	SR	GN	GN	1-12121-052-0
					2nd	105.0	2.5	4.7	TUC	CR	Fe	Fe	5-12121-006-0 (cyl)
					Oil	105.0	5.0	4.9	E-BC3	CR	Fe	Fe	
<b>6BG1</b>	6,494	Truck Forward (FRS12) For Chromard Liner	<b>SDI10104ZX</b>	6	1st	105.0	3.0	3.7	BF	SR	GN	GN	1-12121-065-0
					2nd	105.0	2.5	4.7	TUC	CR	Fe	Fe	1-12121-101-1 (cyl)
					Oil	105.0	4.0	4.35	E-BC16	SR	GN	GN	
<b>6BG1MTC</b>	6,494	For Marine Engine For Chromard Liner	<b>SDI10148ZX</b>	6	1st	105.0	3.306	3.9	BF-K1	SR	GN	GN	1-12121-121-0
					2nd	105.0	2.5	4.7	TUC	CR	Fe	Fe	
					Oil	105.0	4.0	4.35	E-BC16	SR	GN	GN	
<b>4BE1</b>	3,636	Truck Elf 2ton For Chromard Liner	<b>SDI10118ZX</b>	4	1st	105.0	3.0	3.7	BF	SR	GN	GN	8-94418-918-0
					2nd	105.0	2.5	4.5	TUC	CR	Fe	Fe	
					Oil	105.0	5.0	4.9	E-BC3	CR	Fe	Fe	
<b>6BG1-TC</b>	6,494	Truck Forward For Chromard Liner	<b>SDI10223ZZ</b>	6	1st	105.0	3.306	3.9	BF-K1	SR	GN	GN	1-12121-146-0 (cyl)
					2nd	105.0	2.5	4.4	T1-IC	CR	Fe	Fe	
					3rd	105.0	2.5	4.4	B1-TUC	CR	Fe	Fe	
					Oil	105.0	4.0	4.35	E-BC16	SR	GN	GN	
<b>4BG1</b>	4,329	Truck Elf For Chromard Liner	<b>SDI10168ZX</b>	4	1st	105.0	3.0	3.7	BF	SR	GN	GN	8-97123-833-0
					2nd	105.0	2.5	4.7	TUC	CR	Fe	Fe	
					Oil	105.0	4.0	4.35	E-BC16	SR	GN	GN	
			<b>SDI10131ZX</b>	4	1st	105.0	3.306	3.9	BF-K1	SR	GN	GN	8-97032-075-0
					2nd	105.0	2.5	4.4	T1-IC	CR	Fe	Fe	
					Oil	105.0	4.0	4.35	E-BC16	SR	GN	GN	
<b>6HE1</b>	7,127	Truck Forward	<b>SDI10126ZX</b>	6	1st	110.0	3.0		BF	SR	GN	GN	8-94396-840-0
					2nd	110.0	2.5	4.7	TUC	CR	Cr	Fe	
					Oil	110.0	4.0	4.35	E-BC16	SR	GN	GN	
<b>6HE1-TC</b>	7,172	Truck Forward	<b>SDI10146ZY</b>	6	1st	110.0	3.836	4.5	BF-K1	HB	Cr	Fe	8-94390-529-1
					2nd	110.0	3.0	4.4	T1-IC	CR	Cr	Fe	
					3rd	110.0	2.5	4.7	TUC	CR	Cr	Fe	
			<b>SDI10138ZX</b>	6	Oil	110.0	3.0	3.25	E-BC16	SR	GN	GN	
					1st	110.0	3.836	4.5	BF-K1	HB	Cr	Fe	8-94394-418-1
					2nd	110.0	3.0		BF-IC	SR	GN	GN	
3rd	110.0	2.5	4.7	TUC	CR	Cr	Fe						
Oil	110.0	4.0	4.35	E-BC16	SR	GN	GN						

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference	
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower		
<b>4HE1</b>	4,751	Truck Elf	<b>SDI10140ZZ</b>	4	1st	110.04	3.0	4.1	BF-K2	SR	GN	GN	8-97078-779-0	
					2nd	110.04	2.5	4.7	T1-IC	CR	Cr	Fe		
					Oil	110.04	4.0	4.35	E-BC16	SR	GN	GN		
<b>4HE1-TC</b>	4,751	Truck Elf	<b>SDI10177ZZ</b>	4	1st	110.04	3.0	4.1	BF-K2	SR	GN	GN	8-97166-992-0	
					2nd	110.04	2.0	4.1	T1	SR	GN	GN		
					3rd	110.04	1.2	3.9	T1	SR	GN	GN		
					Oil	110.04	3.0	3.25	E-BC16	SR	GN	GN		
<b>4HF1</b>	4,334	Truck Elf	<b>SDI10127ZX</b>	4	1st	112.0	3.0		BF	SR	GN	GN	8-97028-691-0	
					2nd	112.0	2.5	4.7	TUC	CR	Cr	Fe		
					Oil	112.0	4.0	4.35	E-BC16	SR	GN	GN		
			<b>SDI10139ZZ</b>		1st	112.0	3.0	4.05	BF-K2	SR	Cr	Fe		8-97109-462-0
					2nd	112.0	2.5	4.7	TUC	CR	Cr	Fe		
					Oil	112.0	4.0	4.35	E-BC16	SR	GN	GN		
<b>8PA1</b>	9,971	Truck SKS390 SKW520	<b>YDI10080ZX</b> (1cyl)	V8	1st	115.0	3.0	4.05	BF	SR	Cr	Fe	1-12181-016-0	
					2nd	115.0	2.5	4.8	TUC	CR	Cr	Fe	1-12121-042-0	
					Oil	115.0	6.0	5.7	E-BC3	CR	Cr	Fe	1-12181-060-0 (cyl)	
<b>10PA1</b>	12,464	Truck Bus SRZ440 CRA650	<b>YDI10080ZX</b> (1cyl)	V10										
<b>12PA1</b>	14,957	Truck VTR300 VRZ440 VTR290			V12									
<b>8PB1</b>	11,217	New Power Tractor	<b>YDI10081ZX</b> (1cyl)	V8	1st	115.0	3.0	4.05	BF	SR	Cr	Fe	1-12181-043-0 (cyl)	
<b>10PB1</b>	14,022	Dump			2nd	115.0	2.5	4.8	T1	CR	Cr	Fe	1-12181-058-0 (cyl)	
					Oil	115.0	4.0	4.35	E-BC16	SR	GN	GN	1-12181-061-0 (cyl)	
<b>12PB1</b>	16,826		V12											
<b>4HG1</b> <b>4HJ1</b> <b>4HK1</b>	4,751	Truck Elf	<b>SDI10160ZZ</b>	4	1st	115.0	3.0	4.1	BF-K2	SR	GN	GN	8-97105-867-0 (cyl)	
2nd					115.0	2.5	4.8	TUC	CR	Cr	Fe	8-97219-054-0 (cyl)		
Oil					115.0	4.0	4.35	E-BC16	SR	GN	GN	8-97603-423-1 (cyl) 8-98040-125-0 (cyl) 8-98054-995-0 (cyl)		
<b>6HK1</b>	7,790	Forward Truck	<b>SDI10228ZZ</b>	6	1st	115.0	3.0	4.1	BF-K2	SR	GN	GN	8-98040-125-0 (cyl)	
2nd					115.0	2.5	4.8	TUC	CR	Cr	Fe			
Oil					115.0	4.0	4.35	E-BC16	SR	GN	GN			
<b>4HK1X</b>	5,193	Truck Elf	<b>SDI10207ZZ</b>	4	1st	115.0	2.948	4.15	BF-K1	SR	GN	GN	8-98017-166-0	
					2nd	115.0	2.0	4.3	T1-IB	SR	GN	GN		
					3rd	115.0	2.5	4.8	TUC	CR	Cr	Fe		
					Oil	115.0	3.0	3.1	E-BC16	SR	GN	GN		

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
6HH1	8,226	Truck Forward Journey Erga	SDI10163ZX	6	1st	115.0	3.5		BF	SR	GN	GN	8-94390-799-0 (cyl)
					2nd	115.0	2.5	4.8	TUC	CR	Cr	Fe	8-94390-799-2 (cyl)
					Oil	115.0	4.0	4.35	E-BC16	SR	GN	GN	
			SDI10184ZX	6	1st	115.0	3.5		BF	SR	GN	GN	8-94392-128-1
					2nd	115.0	2.5	4.8	TUC	CR	Cr	Fe	
					Oil	115.0	3.0	3.1	E-BC16	SR	GN	GN	
6HK1-TC	7,790	Truck Erga	SDI10178ZZ	6	1st	115.0	2.948	4.1	BF-K1	SR	GN	GN	8-94391-502-4 (cyl)
					2nd	115.0	2.0	4.3	T1-IB	SR	GN	GN	
					3rd	115.0	2.5	4.8	TUC	CR	Cr	Fe	
					Oil	115.0	3.0	3.1	E-BC16	SR	GN	GN	
4HL1	4,777	Elf Forward	SDI10192ZZ	4	1st	115.0	3.0	4.1	BF	SR	GN	GN	8-97331-641-0
					2nd	115.0	2.0	4.25	T1	SR	Cr	Fe	
					Oil	115.0	3.0	3.1	E-BC16	SR	GN	GN	
6HL1-TC	7,166	Truck Forward	SDI10186ZZ	6	1st	115.0	2.948	4.25	BF-K1	SR	Cr	Fe	8-97601-318-1
					2nd	115.0	2.5	4.8	T1-IC	CR	Fe	Fe	
					Oil	115.0	3.0	3.1	E-BC16	SR	GN	GN	
6HF1-CNG	7,790	CNG Truck	SDI10214ZZ	6	1st	115.0	3.5	4.1	BF	SR	GN	GN	8-98141-535-0
					2nd	115.0	2.5	4.8	TUC	CR	Cr	Fe	
					Oil	115.0	4.0	4.35	E-BC16	SR	GN	GN	
6SA1	8,413	Truck Forward 200PS	SDI10112ZX	6	1st	115.0	3.0		BF	SR	GN	GN	1-12121-070-0
					2nd	115.0	2.5	4.8	TUC	HB	Cr	Fe	1-12121-113-0
					Oil	115.0	4.0	4.2	E-BC3	HB	Cr	Fe	1-12121-075-0 (cyl)
4HF1-LPG	4,334	Truck Elf	SDI10190ZZ	4	1st	115.0	3.0	4.1	BF	SR	GN	GN	8-97258-337-0
					2nd	115.0	2.5	4.8	TUC	CR	Cr	Fe	8-98144-475
					Oil	115.0	3.0	3.1	E-BC16	SR	GN	GN	
10PC1	15,014	Truck CXR 10.75ton	SDI10106ZX	V10	1st	119.0	3.0		BF	SR	GN	GN	1-12121-047-0 (cyl)
					2nd	119.0	2.5	4.8	T1	CR	Cr	Fe	
					Oil	119.0	4.0	5.0	E-C2	HB	Cr	Fe	
DH100	10,179	Truck TD70E TD80E TD90E TD141 TP70E TP81 TP81E TP91E Bus BC30 BC141 BC151 BC151P BC161 BU05 BU10 BU15 BU20	SDI10040ZX	6	1st	120.0	3.0	4.45	BF	SR	Cr	Fe	1-12181-001-0
					2nd	120.0	3.0	5.0	T1	CR	Fe	Fe	1-12181-083-0
					3rd	120.0	3.0	5.0	TUC	CR	Fe	Fe	1-12181-086-0
					Oil	120.0	6.0	5.6	E-BC3	CR	Cr	Fe	1-12181-1140

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
<b>6SD1</b>	9,839	Truck Forward CXG23	<b>SDI10179ZX</b>	6	1st	120.0	3.5		BF	SR	GN	GN	1-12121-094-1
					2nd	120.0	2.5	5.0	TUC	HB	Cr	Fe	
					Oil	120.0	5.0	4.95	E-BC16	SR	Cr	Fe	
<b>6SD1-TC</b>	9,839	Truck Giga CXM CXK CXG	<b>SDI10194ZZ</b>	6	1st	120.0	4.0	4.9	BF-K1	HB	Cr	Fe	1-12121-119-2
					2nd	120.0	3.0	4.6	T1-IC	CR	Cr	Fe	
					3rd	120.0	3.0	4.9	BI-TUC	CR	Cr	Fe	
			<b>SDI10218ZZ</b>	6	1st	120.0	3.0	4.1	BF-K1	SR	GN	GN	1-12121-149-0
					2nd	120.0	2.0	4.25	T1-IB	SR	Cr	Fe	
					3rd	120.0	3.0	4.9	BI-TUC	HB	Cr	Fe	
Oil	120.0	3.0	3.25	E-BC16	SR	GN	GN						
<b>6UZ1-TCC</b>	9,839	Giga Truck	<b>SDI10225ZZ</b>	6	1st	120.0	2.5	4.3	BF-K1	SR	GN	GN	8-98056-464-1
					2nd	120.0	2.0	4.25	T1-IB	SR	Cr	Fe	
					3rd	120.0	3.0	4.9	BI-TUC	HB	Cr	Fe	
					Oil	120.0	3.0	3.25	E-BC16	SR	GN	GN	
<b>6QA1 D920</b>	11,044 9,203	Bus TDJ DVR 25DP 35DP	<b>SDI10088ZX</b>	6	1st	125.0	3.0		BF	SR	GN	GN	1-12121-028-0(cyl)
					2nd	125.0	2.5	5.1	TUC	CR	Cr	Fe	1-12121-046-0(cyl)
					Oil	125.0	6.0	5.5	E-BC3	CR	Cr	Fe	1-12121-013-0(cyl)
<b>PE1</b>		Truck Erga Giga	<b>YDI10164ZZ</b> (1cyl)	1	1st	127.0	3.806	4.7	BF-K1	SR	GN	GN	1-12121-129-1
					2nd	127.0	3.0	5.0	T1-IC	HB	Cr	Fe	
					3rd	127.0	3.0	5.2	BI-TUC	CR	Cr	Fe	
			<b>YDI10180ZY</b> (1cyl)	1	1st	127.0	2.917	4.7	BF-K1	SR	GN	GN	1-12121-145-0
					2nd	127.0	2.0	4.7	T1-IB	SR	GN	GN	
					3rd	127.0	3.0	5.2	BI-TUC	CR	Cr	Fe	
Oil	127.0	4.0	4.35	E-BC16	SR	GN	GN						
<b>10PE1</b>	19,001	Erga Giga	<b>SDI10164ZZ</b>	V10	1st	127.0	3.806	4.7	BF-K1	SR	GN	GN	1-12121-129-0
					2nd	127.0	3.0	5.0	T1-IC	HB	Cr	Fe	
					3rd	127.0	3.0	5.2	BI-TUC	CR	Cr	Fe	
					Oil	127.0	4.0	4.35	E-BC16	SR	GN	GN	
<b>6RB1-MTC</b>	13,741	Dump CXM 10.5ton L275PS	<b>SDI10116ZZ</b>	6	1st	132.9	4.0	5.5	BF	HB	Cr	Fe	1-12121-076-0
					2nd	132.9	2.5	5.5	TUC	HB	Cr	Fe	
					Oil	132.9	4.0	4.3	E-BC3	HB	Cr	Fe	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference	
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower		
6WA1-TC	12,068	Truck Giga	SDI10132ZZ	6	1st	132.9	4.306	5.2	BF-K1	HB	Cr	Fe	1-12121-117-0	
					2nd	132.9	3.0	5.2	T1-IC	HB	Cr	Fe		
					3rd	132.9	3.0	5.5	BI-TUC	CR	Cr	Fe		
					Oil	132.9	5.0	5.7	E-BC3	CR	Cr	Fe		
			SDI10158ZZ	6	1st	132.9	4.306	5.2	BF-K1	HB	Cr	Fe		1-12121-127-1 (cyl)
					2nd	132.9	3.0	5.2	T1-IC	HB	Cr	Fe		1-12121-136-0 (cyl)
					3rd	132.9	3.0	5.5	BI-TUC	CR	Cr	Fe		1-12121-142-0 (cyl)
					Oil	132.9	4.0	4.4	E-BC16	SR	GN	GN		
			SDI10173ZZ	6	1st	132.9	3.806	4.9	BF-K1	SR	GN	GN		
					2nd	132.9	3.0	5.2	T1-IC	HB	Cr	Fe		
					3rd	132.9	3.0	5.5	BI-TUC	CR	Cr	Fe		
					Oil	132.9	5.0	5.7	E-BC3	CR	Cr	Fe		
			SDI10174ZZ	6	1st	132.9	3.806	4.9	BF-K1	SR	GN	GN		1-12121-139-0 (cyl)
					2nd	132.9	3.0	5.2	T1-IC	HB	Cr	Fe		1-12121-141-0 (cyl)
					3rd	132.9	3.0	5.5	BI-TUC	CR	Cr	Fe		
					Oil	132.9	4.0	4.4	E-BC16	SR	GN	GN		
E120	12,023	TGK55E · 75E TMK05E Truck VPR290 TDK46	SDI10050ZZ	6	1st	135.0	4.0	5.5	BF	HB	Cr	Fe	9-12181-149-0	
					2nd	135.0	2.5	5.5	T1	CR	Cr	Fe	1-12121-023-0 (cyl)	
					3rd	135.0	2.5	5.5	T1	CR	Fe	Fe		
					Oil	135.0	7.0	6.2	E-BC3	CR	Cr	Fe		
		SPM701 Bus 30KP 35KP BU4K	SDI10075ZZ	6	1st	135.0	4.0	5.5	BF	HB	Cr	Fe	1-12181-022-0	
					2nd	135.0	2.5	5.5	TUC	HB	Cr	Fe	1-12121-034-0 (cyl)	
					Oil	135.0	7.0	6.2	E-BC3	CR	Cr	Fe		
6RA1 6RA2	12,023	Truck SHM CXM 10.5ton	SDI10100ZZ	6	1st	135.0	4.0	5.5	BF	HB	Cr	Fe	1-12121-040-0 (cyl)	
					2nd	135.0	2.5	5.5	T1	CR	Cr	Fe	1-12121-037-0 (cyl)	
					Oil	135.0	5.0	6.2	E-BC3	CR	Cr	Fe		
6RB1 6RB2	13,741	Truck SBM CXM 10.5ton												
6RB1	13,741	Truck CXM 10.75ton L320PS	SDI10117ZZ	6	1st	135.0	4.0	5.5	BF	HB	Cr	Fe	1-12121-073-0	
					2nd	135.0	2.5	5.5	TUC	HB	Cr	Fe		
					Oil	135.0	4.0	4.3	E-C2	HB	Cr	Fe		
6WG1UTMC 6WF1TMC		Truck Giga	SDI10182ZZ	6	1st	142.9	2.948	5.3	BF-K1	SR	GN	GN	1-12121-147-0	
					2nd	142.9	2.5	5.3	T1-IB	SR	GN	GN		
					3rd	142.9	3.0	5.9	BI-TUC	CR	Cr	Fe		
					Oil	142.9	4.0	4.4	E-BC16	SR	GN	GN		

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
<b>6WG1-TC</b>	15,681	Truck	<b>SDI10167ZZ</b>	6	1st	147.0	3.806	5.3	BF-K1	SR	GN	GN	1-12121-143-0
<b>6WF1-TC</b>	14,256	Giga			2nd	147.0	3.0	5.8	T1-IC	HB	Cr	Fe	
		Tractor			3rd	147.0	3.0	6.1	BI-TUC	CR	Cr	Fe	
					Oil	147.0	4.0	4.4	E-BC16	SR	GN	GN	
			<b>SDI10181ZZ</b>	6	1st	147.0	2.948	5.5	BF-K1	SR	GN	GN	1-12121-144-0
					2nd	147.0	2.5	5.5	T1-IB	SR	GN	GN	
					3rd	147.0	3.0	6.1	BI-TUC	CR	Cr	Fe	
					Oil	147.0	4.0	4.4	E-BC16	SR	GN	GN	



## ● Diesel-engine Automobiles ● ディーゼル車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
4D92	2,610	Bulldozer Power Shovel	SDK04012ZZ	4	1st	92.0	3.0	4.0	T1-K1	CR	Cr	Fe	6141-31-2020
					2nd	92.0	3.0	4.0	T1	CR	Fe	Fe	6140-31-2040(cyl)
					Oil	92.0	6.0	4.5	E-BC3	CR	Cr	Fe	
4D94	2,940	Bulldozer Power Shovel	SDK04015ZZ	4	1st	94.0	2.9	3.8	BF	HB	Cr	Fe	6142-32-2020
					2nd	94.0	2.5	4.1	T1	CR	Fe	Fe	6142-32-2030(cyl)
					Oil	94.0	5.0	4.4	E-BC16	CR	Cr	Fe	
4D95	3,260	Bulldozer Power Shovel Fork Lift	SDK04014ZY	4	1st	95.0	2.2	4.0	BF-K2	CR	Cr	Fe	6202-32-2300
					2nd	95.0	2.2	4.0	T1-K2	CR	Fe	Fe	
					Oil	95.0	4.0	4.15	E-BC16	SR	GN	GN	
			SDK04031ZY	4	1st	95.0	2.0	4.0	BF	CR	Cr	Fe	6204-31-2200
					2nd	95.0	2.0	4.0	T1-IC	CR	Fe	Fe	6204-31-2203
					Oil	95.0	4.0	4.15	E-BC16	SR	GN	GN	
S4D95			SDK04025ZZ	4	1st	95.0	2.2	4.0	BF-K2	CR	Cr	Fe	6202-32-2200
					2nd	95.0	2.0	4.0	T1	CR	Fe	Fe	
			SDK04040ZZ	4	1st	95.0	2.5	3.5	BF-K1	SR	GN	GN	6208-31-2300
					2nd	95.0	2.0	4.0	TUC	CR	Cr	Fe	
Oil	95.0	4.0	4.15	E-BC16	SR	GN	GN						
S6D95	4,890	Bulldozer Power Shovel	SDK04018ZX	6	1st	95.0	2.5	3.45	BF-K1	SR	Cr	Fe	6207-31-2500
					2nd	95.0	2.2	4.0	T1-K2	CR	Cr	Fe	
					Oil	95.0	4.0	4.15	E-BC16	SR	GN	GN	
	Bulldozer Power Shovel	SDK04023ZZ	6	1st	95.0	2.5	3.7	BF-K1	HB	Cr	Fe	6209-31-2400	
				2nd	95.0	2.2	4.0	T1-K1-IC	HB	Cr	Fe		
				Oil	95.0	4.0	4.15	E-BC16	SR	Cr	Fe		
Bulldozer Power Shovel	SDK04032ZZ	6	1st	95.0	2.5	3.7	BF-K1	HB	Cr	Fe	6207-31-2200(cyl)		
			2nd	95.0	2.0	4.0	T1-IC	CR	Fe	Fe			
			Oil	95.0	4.0	4.35	E-BC16	SR	GN	GN			
6D95 SA6D95	4,890	Bulldozer Power Shovel	SDK04019ZZ	6	1st	95.0	2.0	4.0	BF	CR	Cr	Fe	6204-31-2202
					2nd	95.0	2.0	4.0	T1	CR	Fe	Fe	
					Oil	95.0	4.0	4.15	E-BC16	SR	Cr	Fe	
6D95			SDK04024ZY	6	1st	95.0	2.2	4.0	BF-K2	CR	Cr	Fe	6202-32-2200
					2nd	95.0	2.0	4.0	T1	CR	Fe	Fe	
					Oil	95.0	4.0	4.15	E-BC16	SR	GN	GN	
SAA4D95LE	3,259	Wheel Loader	TCC-N-0271	4	1st	95.0	2.5		BF-K1	SR	GN	GN	6271-31-2300
					2nd	95.0	2.0		TUC	SR	Cr	Fe	
					Oil	95.0	3.0		E-BC16	SR	GN	GN	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>S6D102</b>	5,900	Bulldozer Power Shovel	<b>SDK04027ZX</b>	6	1st	102.0	2.875	4.05	BF-K1	SR	Cr	Fe	6732-31-2300
					2nd	102.0	2.37	4.2	T1-IB	CR	Fe	Fe	6735-31-2030
					Oil	102.0	4.0	4.35	E-BC16	SR	GN	GN	
<b>S4D105</b>	4,330	Bulldozer Power Shovel	<b>SDK04009ZZ</b>	4	1st	105.0	3.0	4.2	BF	HB	Cr	Fe	6136-31-2030(cyl)
					2nd	105.0	2.5	4.5	T1-IC	CR	Fe	Fe	6136-31-2010(cyl)
					Oil	105.0	5.0	4.7	E-BC3	CR	Cr	Fe	
			<b>SDK04033ZZ</b>	4	1st	105.0	3.0	4.2	BF	HB	Cr	Fe	6130-31-2202(cyl)
					2nd	105.0	3.0	4.2	T1	CR	Cr	Fe	6130-32-2202(cyl)
					Oil	105.0	5.0	4.65	E-BC16	CR	Cr	Fe	6130-32-2302(cyl) 6130-32-2301(cyl)
<b>S4D105(NEW)</b>	4,330	Bulldozer Power Shovel	<b>SDK04010ZZ</b>	4	1st	105.0	3.0	4.2	BF-K1	HB	Cr	Fe	6130-31-2200
					2nd	105.0	2.5	4.5	T1-IC	CR	Fe	Fe	6130-31-2201
					Oil	105.0	5.0	4.7	E-BC3	CR	Cr	Fe	6131-32-2302 6131-31-2301(cyl) 6130-31-2201 6131-32-2301(cyl)
<b>6D105</b> <b>S6D105</b>	6,490	Bulldozer Power Shovel	<b>SDK04016ZX</b>	6	1st	105.0	3.0	3.85	BF-K1	SR	Cr	Fe	6137-31-2040
					2nd	105.0	2.5	4.5	T1-K2	CR	Cr	Fe	6137-31-2032
					Oil	105.0	5.0	4.7	E-BC3	CR	Cr	Fe	6137-31-2030
			<b>SDK04017ZZ</b>	6	1st	105.0	3.0	4.2	BF	HB	Cr	Fe	6136-31-2010(cyl)
					2nd	105.0	2.5	4.5	T1-IC	CR	Fe	Fe	6136-31-2030(cyl)
					Oil	105.0	5.0	4.7	E-BC3	CR	Cr	Fe	
<b>4D105</b> <b>S4D105</b>		Bulldozer Power Shovel	<b>YDK04026ZZ</b>	1	1st	105.0	2.984	4.375	BF-K1	HB	Cr	Fe	
					2nd	105.0	2.955	4.375	T1-K1-IC	HB	Cr	Fe	
					Oil	105.0	4.0	4.45	E-BC16	CR	Cr	Fe	
<b>S4D106</b>	4,411	Bulldozer Power Shovel	<b>SDK04029ZZ</b>	4	1st	106.0	2.5	3.7	BF-K2	SR	GN	GN	YM123900-22050
					2nd	106.0	2.0	4.4	T1	CR	Fe	Fe	
					Oil	106.0	3.0	3.25	E-BC16	SR	GN	GN	
<b>S6D107</b>	6,128	Bulldozer Power Shovel	<b>SDK04038ZZ</b>	6	1st	107.0	2.85	4.4	BF-K1	HB	Cr	Fe	6754-31-2010
					2nd	107.0	2.5	4.5	T1-RB	CR	Fe	Fe	
					Oil	107.0	3.5	4.15	E-BC16	CR	Cr	Fe	
<b>6D108</b>	7,150	Generator	<b>SDK04020ZZ</b>	6	1st	108.0	2.5	4.35	BF-K1	HB	Cr	Fe	6221-31-2200
					2nd	108.0	2.53	4.35	T1-K1-IC	HB	Cr	Fe	
					Oil	108.0	4.0	4.15	E-BC16	SR	Cr	Fe	
<b>6D110</b> <b>S6D110</b>	7,130	Generator	<b>SDK04021ZZ</b>	6	1st	110.0	3.0	4.4	BF-K1	HB	Cr	Fe	6138-32-2200
					2nd	110.0	2.5	4.6	T1-K2	CR	Cr	Fe	6138-31-2020
					Oil	110.0	5.0	4.05	E-BC16	SR	Cr	Fe	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference	
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower		
<b>6D114</b> <b>SAA6D114E</b> <b>6CT(Cummins)</b>	8,264	Bulldozer Power Shovel	<b>SDK04039ZZ</b>	6	1st	114.0	3.325	4.7	BF-K1-IC	CR	Cr	Fe		
					2nd	114.0	2.85	4.7	T1-K1-RC	CR	Fe	Fe		
					Oil	114.0	4.0	4.35	E-BC16	SR	GN	GN		
<b>S4D120</b>	7,240	Bulldozer Power Shovel	<b>SDK04007ZZ</b>	4	1st	120.0	3.5	4.8	BF	HB	Cr	Fe	6110-30-2301	
					2nd	120.0	2.5	5.0	T1-IC	CR	Cr	Fe	6110-30-2302	
					Oil	120.0	5.5	5.7	E-BC3	CR	Cr	Fe	6110-30-2303	
														6110-30-2401
														6110-30-2402
												6110-30-2403		
<b>SAA6D125E</b>	11,040	Bulldozer	<b>SDK04022ZZ</b>	6	1st	125.0	2.5	5.0	BF-K1	HB	Cr	Fe	6150-31-2032	
					2nd	125.0	2.5	5.0	T1-K1-IC	HB	Cr	Fe	6150-31-2033	
					Oil	125.0	4.0	4.4	E-BC16	CR	Cr	Fe	6150-32-2030	
<b>6D125</b>			<b>SDK04034ZX</b>	6	1st	125.0	2.5	4.7	BF	SR	GN	GN	6150-31-2030	
					2nd	125.0	2.0	5.0	T1-IC	HB	Cr	Fe		
					Oil	125.0	3.0	3.1	E-BC16	SR	GN	GN		
<b>SDK04035ZX</b>			<b>SDK04035ZX</b>	6	1st	125.0	2.5	5.0	BF-K1	HB	Cr	Fe	6151-31-2031	
					2nd	125.0	2.0	5.0	T1-IC	HB	Cr	Fe		
					Oil	125.0	3.0	3.1	E-BC16	SR	GN	GN		
<b>4D130</b>	8,490	Bulldozer Power Shovel	<b>SDK04011ZZ</b>	4	1st	130.0	3.5	5.1	BF	HB	Cr	Fe	6114-30-2303	
					2nd	130.0	2.5	5.4	T1-IC	CR	Cr	Fe	6114-30-2403(cyl)	
					Oil	130.0	5.5	5.8	E-BC3	CR	Cr	Fe		
<b>6D140</b>	15,240	Generator	<b>SDK04028ZZ</b>	6	1st	140.0	2.4	5.4	BF-K1	HB	Cr	Fe	6211-31-2031	
					2nd	140.0	2.4	5.4	T1-K1-IC	HB	Cr	Fe		
					Oil	140.0	4.0	4.15	E-BC16	SR	Cr	Fe		
<b>6D155</b>	19,260	Bulldozer	<b>SDK04008ZZ</b>	6	1st	155.0	4.0	6.4	BF-K1	HB	Cr	Fe	6138-31-2022	
					2nd	155.0	3.5	6.2	T1-IC	HB	Cr	Fe	6128-31-2023	
					Oil1	155.0	6.0	5.7	E-BC1	CR	Cr	Fe	6128-31-2033(cyl)	
					Oil2	155.0	5.0	6.2	BC3	CR	Cr	Fe		
<b>S6D155</b> <b>SA6D155</b>	19,260	Bulldozer	<b>SDK04013ZZ</b>	6	1st	155.0	3.68	6.06	BF-K1	HB	Cr	Fe	6128-31-2060	
					2nd	155.0	3.55	6.06	T1-K1-IC	HB	Cr	Fe	6128-31-2070(cyl)	
					Oil	155.0	4.75	5.0	E-BC16	CR	Cr	Fe		

## ● Gasoline-engine Automobiles ● ガソリン車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>R06A</b>	658	Flair Carol Scrum	<b>TCC-N-0701</b>	3	1st	64.0	1.0		BF-IB	SR	GN	GN	12140-55S00
					2nd	64.0	1.0		TUC	SR	Fe	Fe	
					Oil	64.0	2.0		NIFF-H	SR	GN	GN	
<b>B1</b>	1,138	Festiva	<b>SWT20051ZZ</b>	4	1st	68.0	1.2	2.45	BF	SR	Cr	Fe	B1Y0-11-SCO
					2nd	68.0	1.5	3.1	TUC	CR	Fe	Fe	
					Oil	68.0	3.0	2.95	NIFF-S	SR	Cr	Fe	
<b>TB</b>	1,169	Familia	<b>SWT20009ZX</b>	4	1st	70.0	2.0		BF	SR	GN	GN	0263-23-170
					2nd	70.0	2.0	3.1	TUC	CR	Fe	Fe	
					Oil	70.0	4.0	3.1	NIFF-S	SR	Cr	Fe	
<b>PC</b>	985	Familia	<b>SWT20040ZZ</b>	4	1st	70.0	1.5	3.1	BF	HB	Cr	Fe	8693-23-130
					2nd	70.0	1.5	3.1	T1	CR	Fe	Fe	
					Oil	70.0	4.0	3.1	NIFF-S	SR	Cr	Fe	
<b>B3</b>	1,324	Familia Festiva	<b>SWT20052ZZ</b>	4	1st	71.0	1.2	2.47	BF	SR	Cr	Fe	B3Y0-11-SCOA B3Y1-11-SCO
					2nd	71.0	1.5	3.1	TUC	CR	Fe	Fe	
					Oil	71.0	3.0	2.92	NIFF-S	SR	Cr	Fe	
<b>TC</b>	1,272	Familia 1300 Truck	<b>SWT20026ZZ</b>	4	1st	73.0	2.0	3.1	BF	HB	Cr	Fe	0324-23-175 0324-23-130
					2nd	73.0	2.0	3.1	TUC	CR	Fe	Fe	
					Oil	73.0	4.0	3.0	NIFF-S	SR	Cr	Fe	
			<b>SWT20033ZZ</b>	4	1st	73.0	1.5	3.1	BF	HB	Cr	Fe	8034-23-130 8034-23-130A
					2nd	73.0	1.5	3.1	T1	CR	Fe	Fe	
					Oil	73.0	4.0	3.0	NIFF-S	SR	Cr	Fe	
<b>JF</b>	1,997	Luce	<b>SWT20079ZZ</b>	V6	1st	74.0	1.5	2.85	BF	SR	Cr	Fe	JFY1-11-SCO
					2nd	74.0	1.5	3.4	TUC	CR	Fe	Fe	
					Oil	74.0	4.0	3.0	NIFF-S	SR	Cr	Fe	
<b>ZJ-VEN</b>	1,348	Demio	<b>SWT20083ZZ</b>	4	1st	74.0	1.0	2.45	BF-IB	SR	Cr	Fe	ZJY4-11-SCO
					2nd	74.0	1.0	2.5	TUC	SR	Fe	Fe	
					Oil	74.0	2.0	2.2	NIFF-H	SR	GN	GN	
<b>ZJ-VE</b>	1,348	Demio Mazda2	<b>SWT20100ZZ</b>	4	1st	74.0	1.2	2.45	BF-IB	SR	Cr	Fe	ZJY1-11-SCO
					2nd	74.0	1.2	2.9	TUC	CR	Fe	Fe	
					Oil	74.0	2.5	2.45	NIFF-H	SR	Cr	Fe	
<b>UA UB</b>	1,484	T1500 Craft	<b>SCT20010ZZ</b>	4	1st	75.0	2.5	3.3	T1	CR	Cr	Fe	0107-11-999
					2nd	75.0	2.5	3.3	TUC	CR	Fe	Fe	
					Oil	75.0	4.0	3.3	BC1	CR	Cr	Fe	
<b>K8-DE</b>	1,844	MX-3 Eunos 500 MS-6 Anfini	<b>SWT20067ZZ</b>	V6	1st	75.0	1.5	2.7	BF	SR	GN	GN	K8Y1-11-SCOA
					2nd	75.0	1.5	3.2	TUC	CR	Fe	Fe	
					Oil	75.0	3.0	2.55	NIFF-S	SR	GN	GN	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>Z5-DE</b>	1,489	Familia	<b>SWT20074ZZ</b>	4	1st	75.3	1.0	2.7	BF	SR	GN	GN	Z5Y0-11-SCO
					2nd	75.3	1.2	3.2	TUC	CR	Fe	Fe	
					Oil	75.3	2.5	2.55	NIFF-S	SR	GN	GN	
<b>UC</b>	1,415	Familia Bongo	<b>SWT20036ZZ</b>	4	1st	77.0	1.5	2.85	BF	SR	Cr	Fe	8569-23-130
					2nd	77.0	1.5	3.2	T1	CR	Fe	Fe	
					Oil	77.0	4.0	3.05	NIFF-S	SR	Cr	Fe	
<b>E3</b>	1,296	Familia Mazda 323	<b>SWT20037ZZ</b>	4	1st	77.0	1.2	3.25	BF	SR	Cr	Fe	E301-23-130
					2nd	77.0	1.5	3.2	TUC	CR	Cr	Fe	E301-23-130A
					Oil	77.0	4.0	3.05	NIFF-S	SR	GN	GN	
<b>E5</b>	1,490		<b>SWT20045ZZ</b>	4	1st	77.0	1.5	2.9	BF	SR	GN	GN	E302-23-130A
					2nd	77.0	2.0	3.3	TUC	CR	Fe	Fe	
					Oil	77.0	4.0	3.05	NIFF-S	SR	GN	GN	
<b>VB</b>	1,796	Luce (626) Ford Courier	<b>SWT20025ZZ</b>	4	1st	78.0	1.5	3.6	T1	CR	Cr	Fe	0290-23-130
					2nd	78.0	1.5	3.6	TUC	CR	Fe	Fe	0494-23-130
					Oil	78.0	4.0	3.05	NIFF-S	SR	Cr	Fe	3763-23-130 0290-23-131
<b>NA(NEW)</b>	1,796	Luce 1800 Capella (626) Bongo Pick UP Van	<b>SWT20035ZZ</b>	4	1st	78.0	1.2	3.6	BF	HB	Cr	Fe	8170-23-130
					2nd	78.0	1.5	3.6	TUC	CR	Fe	Fe	8170-23-130A
					Oil	78.0	4.0	3.05	NIFF-S	SR	Cr	Fe	8658-23-130 H604-23-130
<b>NA-2</b>	1,586	Luce B1600 Pick up Truck	<b>SWT20049ZZ</b>	4	1st	78.0	1.5	3.1	BF	SR	GN	GN	H617-23-130
					2nd	78.0	2.0	3.6	TUC	CR	Fe	Fe	
					Oil	78.0	4.0	3.05	NIFF-S	SR	GN	GN	
<b>B6T B6-ME B6-ZE</b>	1,597	Familia Van Capella Cargo Van Familia Wagon	<b>SWT20060ZZ</b>	4	1st	78.0	1.5	3.1	BF	SR	GN	GN	B6Y0-11-SCOA
					2nd	78.0	1.5	3.4	TUC	CR	Fe	Fe	
					Oil	78.0	4.0	3.0	NIFF-S	SR	GN	GN	
		Capella Familia Van	<b>SWT20063ZZ</b>	4	1st	78.0	1.5	3.05	BF-IB	SR	Cr	Fe	B6Y3-11-SCOA
					2nd	78.0	1.5	3.4	TUC	CR	Fe	Fe	
					Oil	78.0	3.0	3.05	NIFF-S	SR	GN	GN	
<b>ZL-DE</b>	1,498	Familia Familia S Wagon	<b>SWT20080ZZ</b>	4	1st	78.0	1.2	2.65	BF	SR	Cr	Fe	ZLY0-11-SCO
					2nd	78.0	1.5	3.2	TUC	CR	Fe	Fe	
					Oil	78.0	3.0	3.0	NIFF-S	SR	Cr	Fe	
<b>ZY-VE</b>	1,498	Axela Demio Mazda2	<b>SWT20087ZZ</b>	4	1st	78.0	1.2	2.45	BF-IB	SR	Cr	Fe	ZYY1-11-SCO
					2nd	78.0	1.2	3.3	TUC	CR	Fe	Fe	ZYY2-11-SCO
					Oil	78.0	2.5	2.45	NIFF-H	SR	GN	GN	
<b>ZMD ZM-DE</b>	1,598	Familia Mazda3	<b>TCC-Q-0745</b>	4	1st	78.0	1.2		BF-IB	SR	GN	GN	ZMY0-11-SCO
					2nd	78.0	1.5		TUC	CR	Fe	Fe	
					Oil	78.0	3.0		NIFF-S	SR	GN	GN	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>VC</b>	1,769	Luce Van	<b>SWT20030ZZ</b>	4	1st	80.0	2.0	3.6	BF	HB	Cr	Fe	0453-23-130B
		Deluxe 1800			2nd	80.0	2.0	3.6	TUC	CR	Fe	Fe	3975-23-130
		Cosmo			Oil	80.0	4.0	3.25	NIFF-S	SR	Cr	Fe	
<b>MA(NEW)</b>	1,995	Luce (929L)	<b>SWT20031ZZ</b>	4	1st	80.0	1.2	3.45	BF	SR	Cr	Fe	8682-23-130
Cosmo (121L)		2nd			80.0	1.5	3.6	TUC	CR	Fe	Fe	8682-23-130A	
<b>VC(NEW)</b>	1,769	Capella (626)			Oil	80.0	4.0	3.25	NIFF-S	SR	Cr	Fe	Fe
<b>MA VB(Bore up)</b>	1,970	B2000 626	<b>SWT20042ZZ</b>	4	1st	80.0	1.5	3.45	BF	SR	Cr	Fe	HE05-23-130
		(2000)			2nd	80.0	2.0	3.6	TUC	CR	Fe	Fe	
		Cosmo			Oil	80.0	4.0	3.25	NIFF-S	SR	Cr	Fe	
<b>F6</b>	1,587	Capella	<b>SWT20054ZZ</b>	4	1st	81.0	1.5	3.1	BF	SR	GN	GN	F601-23-130
					2nd	81.0	1.5	3.5	TUC	CR	Fe	Fe	F601-23-130A
					Oil	81.0	4.0	3.05	NIFF-S	SR	GN	GN	
<b>VA</b>	1,985	E2000 Titan	<b>SCT20012ZZ</b>	4	1st	82.0	2.5	3.6	T1	CR	Cr	Fe	0164-11-999
		F2000			2nd	82.0	2.5	3.6	T1	CR	Fe	Fe	
		Bus			Oil	82.0	4.5	3.6	BC16	CR	Cr	Fe	
<b>0552 VA</b>	1,985	Titan G2000	<b>SWT20021ZZ</b>	4	1st	82.0	2.0	3.6	BF	HB	Cr	Fe	1352-23-130
					2nd	82.0	2.0	3.6	T1	CR	Fe	Fe	0552-23-180
					Oil	82.0	4.5	3.3	NIFF-S	SR	Cr	Fe	0552-23-190
<b>BP01 BP05 BP05-4W BP05-VE</b>	1,839	Familia	<b>SWT20066ZZ</b>	4	1st	83.0	1.5	3.3	BF-IB	SR	GN	GN	BPY1-11-SCO
		Eunos 100			2nd	83.0	1.5	3.6	TUC	CR	Fe	Fe	
		Lantis			Oil	83.0	3.0	2.8	NIFF-S	SR	GN	GN	
<b>FS FS-DE</b>	1,991	Capella	<b>SWT20078ZZ</b>	4	1st	83.0	1.2	3.1	BF-IB	SR	GN	GN	FSY2-11-SCO
		MPV			2nd	83.0	1.5	3.6	TUC	CR	Fe	Fe	
		MS6			Oil	83.0	3.0	3.2	NIFF-S	SR	Cr	Fe	
<b>L8-DE L8-VE</b>	1,798	Mazda5	<b>SWT20101ZZ</b>	4	1st	83.0	1.2	2.85	BF	SR	Cr	Fe	L8Y1-11-SCOA
		Mazda6			2nd	83.0	1.2	3.3	TUC	CR	Fe	Fe	
		Mazda MX-5			Oil	83.0	2.5	2.7	NIFF-H	SR	Cr	Fe	
<b>PE-VPS SKYACTIV-G 2.0</b>	1,998	CX-3	<b>SWT20102ZZ</b>	4	1st	83.5	1.0	2.5	BF-IB	SR	GN	GN	PEY1-11-SCO
		CX-5			2nd	83.5	1.0	2.5	TUC	SR	Fe	Fe	
		Mazda3			Oil	83.5	2.0	2.45	NIFF-H	SR	Cr	Fe	
<b>PE-VPS</b>	1,997	CX30	<b>TCC-R-0822</b>	4	1st	83.5	1.0		BF-IB	SR	GN	GN	PEY5-11-SCO
					2nd	83.5	1.0		TUC	SR	Fe	Fe	
					Oil	83.5	2.0		NIFF-H	SR	GN	GN	
<b>KL-DE KL-G4</b>	2,496	MX6	<b>SWT20073ZZ</b>	V6	1st	84.5	1.5	3.05	BF	SR	Cr	Fe	KLY1-11-SCO
		MS8			2nd	84.5	1.5	3.6	TUC	CR	Fe	Fe	KLY2-11-SCO
		Eunos 800			Oil	84.5	3.0	2.9	NIFF-S	SR	Cr	Fe	



Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>F8-DE</b>	1,789	Capella Capella Wagon Eunos 300	<b>SWT20048ZZ</b>	4	1st	86.0	1.5	3.25	BF	SR	Cr	Fe	F801-23-130
					2nd	86.0	1.5	3.8	TUC	CR	Fe	Fe	
					Oil	86.0	4.0	3.2	NIFF-S	SR	Cr	Fe	
<b>FE-DE</b>	1,998	Luce Eunos 300 Bongo Capella Wagon	<b>SWT20065ZZ</b>	4	1st	86.0	1.5	3.1	BF	SR	GN	GN	F2Y1-11-SCO
					2nd	86.0	1.5	3.8	TUC	CR	Fe	Fe	F2Y2-11-SCO
					Oil	86.0	4.0	3.25	NIFF-S	SR	GN	GN	F8Y1-11-SCO
<b>L3-VE</b>	2,260	Atenza MPV Mazda3 Mazda5 Mazda6 B2300 Tribute	<b>SWT20090ZZ</b>	4	1st	87.5	1.2	2.7	BF-IB	SR	GN	GN	L3Y1-11-SCO
					2nd	87.5	1.2	3.4	TUC	CR	Fe	Fe	L3Y6-11-SCO
					Oil	87.5	2.5	2.6	NIFF-S	SR	GN	GN	L3Y3-11-SCO
<b>LF-VE</b>	1,998	Atenza Axela	<b>SWT20089ZZ</b>	4	1st	87.5	1.2	2.85	BF	SR	Cr	Fe	LFY1-11-SCO
					2nd	87.5	1.2	3.4	TUC	CR	Fe	Fe	LFY1-82-SC2B
					Oil	87.5	2.5	2.8	NIFF-S	SR	Cr	Fe	
<b>L5-VE</b>	2,488	Atenza Atenza Sports	<b>SWT20097ZZ</b>	4	1st	89.0	1.2	2.9	BF-IB	SR	GN	GN	L5Y3-11-SCO
					2nd	89.0	1.2	3.8	TUC	CR	Fe	Fe	
					Oil	89.0	2.5	2.45	NIFF-H	SR	GN	GN	
<b>SKYACTIV-G2.5</b>	2,488	CX-5 CX-8 CX-30 Mazda3 Mazda6	<b>SWT20103ZZ (TCC-Q-0742)</b>	4	1st	89.0	1.0	2.7	BF-IB	SR	GN	GN	PYY4-11-SCO
					2nd	89.0	1.0	2.7	TUC-RB	SR	Fe	Fe	
					Oil	89.0	2.0	2.25	NIFF-H	SR	GN	GN	
<b>SKYACTIV-G2.5T</b>	2,488	CX-9 Mazda6	<b>SWT20104ZZ (TCC-Q-0784)</b>	4	1st	89.0	1.2	2.7	BF-IB	SR	GN	GN	PYY3-11-SCO
					2nd	89.0	1.0	2.7	TUC	SR	Fe	Fe	
					Oil	89.0	2.0	2.25	NIFF-H	SR	GN	GN	
<b>U</b>	2,983	B3000 Valcan V6	<b>SWT20075ZZ</b>	V6	1st	89.0	1.5	3.45	BF	SR	Cr	Fe	ZZMD-23-130
					2nd	89.0	1.5	3.7	TUC	CR	Fe	Fe	
					Oil	89.0	4.0	3.2	NIFF-S	SR	Cr	Fe	
<b>JE JE48 JE-ZE27</b>	2,954	MPV Centier Luce	<b>SWT20062ZZ</b>	V6	1st	90.0	1.5	3.3	BF	SR	GN	GN	JEY1-11-SCO
					2nd	90.0	1.5	3.8	TUC	CR	Fe	Fe	
					Oil	90.0	4.0	3.25	NIFF-S	SR	GN	GN	
<b>G6</b>	2,606	MPV Proceed	<b>SWT20064ZZ</b>	4	1st	92.0	1.5	3.3	BF-IB	SR	Cr	Fe	G601-11-SCOA
					2nd	92.0	1.5	4.1	TUC	CR	Fe	Fe	
					Oil	92.0	4.0	3.2	NIFF-S	SR	Cr	Fe	
<b>A</b>	2,298	B2300	<b>SWT20071ZZ</b>	4	1st	96.0	1.5	4.0	BF	CR	Cr	Fe	ZZM0-23-130
					2nd	96.0	1.5	4.0	TUC	CR	Fe	Fe	ZZM9-23-130
					Oil	96.0	4.0	3.25	NIFF-S	SR	Cr	Fe	
<b>C</b>	2,507	B2500	<b>SWT20076ZZ</b>	4	1st	96.0	1.5	4.0	BF	CR	Cr	Fe	ZZP0-23-130
					2nd	96.0	1.5	4.0	TUC	CR	Fe	Fe	
					Oil	96.0	3.0	3.45	NIFF-S	SR	Cr	Fe	
<b>XS</b>	4,016	B4000 Cologne V6	<b>SWT20072ZZ</b>	V6	1st	100.4	1.6	4.0	BF	CR	Cr	Fe	ZZM2-23-130
					2nd	100.4	1.75	4.0	TUC	CR	Fe	Fe	ZZMB-23-130
					Oil	100.4	3.5	3.15	NIFF-S	SR	Cr	Fe	ZZP2-23-130

## ● Diesel-engine Automobiles ● ディーゼル車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
PN	1,720	Familia Diesel	SDT20070ZZ	4	1st	78.0	2.0	2.9	BF	SR	GN	GN	PN11-11-SCO
					2nd	78.0	1.5	3.2	T1-IB	CR	Cr	Fe	PNY2-11-SCO
					Oil	78.0	3.0	3.25	E-BC16	SR	GN	GN	
R2	2,184	Bongo Brawny Bongo Van Truck	SDT20041ZX	4	1st	86.0	2.0	3.05	BF-IB	SR	Cr	Fe	R201-23-130B
					2nd	86.0	2.0	3.6	T1-IC	CR	Fe	Fe	R201-23-130C
					Oil	86.0	4.0	4.15	E-BC16	SR	GN	GN	
RFX	1,998	Capella	SDT20055ZZ	4	1st	86.0	2.0	3.1	BF-K3	SR	GN	GN	RF01-23-130
					2nd	86.0	2.0	3.6	T1-IC	CR	Cr	Fe	RFY0-11-SCOD
					Oil	86.0	4.0	4.35	E-BC16	SR	GN	GN	
			SDT20068ZZ	4	1st	86.0	2.0	3.1	BF-K3	SR	GN	GN	RFY0-11-SCOF
					2nd	86.0	2.0	3.6	T1-IC	CR	Cr	Fe	
					Oil	86.0	3.0	3.25	E-BC16	SR	GN	GN	
R2(NEW)	2,184	Bongo	SDT20059ZY	4	1st	86.0	2.0	3.05	BF-IB	SR	Cr	Fe	R2B6-11-SCO
					2nd	86.0	2.0	3.6	T1-IC	CR	Cr	Fe	
					Oil	86.0	3.0	3.05	E-BC16	SR	GN	GN	
SKYACTIV-D2.2	2,188	CX-5 Atenza	SDT20091ZZ	4	1st	86.0	2.0	2.7	BF-IB	SR	GN	GN	SHY1-11-SCO
					2nd	86.0	1.5	2.7	T1-IB	SR	GN	GN	
					Oil	86.0	2.0	2.75	E-BC16	SR	GN	GN	
R2D	2,184	Bongo	SDT20084ZZ	4	1st	86.0	2.0	3.1	BF-K2	SR	GN	GN	R2Y2-11-SCO
					2nd	86.0	2.0	3.6	T1-IC	CR	Cr	Fe	
					Oil	86.0	3.0	3.0	E-BC16	SR	GN	GN	
L3-VDT	2,260	CX-7 Mazda3 Mazda6 Mazda Speed3 Mazda Speed6	SDT20099ZZ	4	1st	87.5	1.5	3.1	BF	SR	GN	GN	L3Y4-11-SCO
					2nd	87.5	1.5	3.7	TUC	CR	Fe	Fe	
					Oil	87.5	2.0	2.75	E-BC16	SR	GN	GN	
XA	2,552	E2500 EXA32S Parkins EXA33S EXA35S	SCT20016ZZ	4	1st	88.9	2.383	3.5	BF	HB	Cr	Fe	0559-23-206
					2nd	88.9	2.383	3.5	T1-IC	HB	Fe	Fe	0559-23-207
					3rd	88.9	2.383	3.5	T1-IC	HB	Fe	Fe	0636-23-206
					Oil 1	88.9	4.763	3.5	BC3	HB	Cr	Fe	0636-23-207
					Oil 2	88.9	4.763	3.5	C1	HB	Fe	Fe	0636-23-210

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference	
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower		
<b>S2</b>	2,209	Luce (929L)	<b>SDT20032ZX</b>	4	1st	88.925	2.383	3.45	BF	SR	Cr	Fe	1456-23-206	
		Bongo Diesel			2nd	88.925	2.383	3.5	T1-IC	CR	Fe	Fe		
	LA4S BA25B BA259	Oil			88.925	4.763	4.6	E-BC16	SR	GN	GN			
<b>XA(NEW)</b>	2,522													
<b>ZB</b> <b>XB</b> <b>EZA</b>	4,052	T4100	<b>SDT20034ZX</b>	6	1st	92.025	2.383	3.45	BF	SR	Cr	Fe	V101-23-206	
		Trader			2nd	92.025	2.383	3.6	T1-IC	CR	Cr	Fe		
					Oil	92.025	4.763	4.6	E-BC16	SR	GN	GN		
<b>WLT</b>	2,499	Bongo	<b>SDT20061ZY</b>	4	1st	93.0	2.5	3.5	BF-IB	SR	GN	GN	WLY1-11-SCO	
		Bongo Friendee			2nd	93.0	2.0	3.9	T1-IB	CR	Cr	Fe		
					Oil	93.0	3.0	3.25	E-BC16	SR	GN	GN		
<b>WLC</b>	2,499	BT-50	<b>SDT20092ZZ</b>	4	1st	93.0	2.0	3.3	BF-IB	SR	GN	GN	WLY6-11-SCO	
					2nd	93.0	1.5	3.3	T1	CR	Cr	Fe		
					Oil	93.0	2.0	2.75	E-BC16	SR	GN	GN		
<b>W9</b>	2,849	BT-50	<b>SDT20085ZZ</b>	4	1st	95.0	2.5	3.75	BF-IB	HB	Cr	Fe	W9Y1-11-SCO	
					2nd	95.0	2.0	3.9	T1-IC	CR	Cr	Fe		
					Oil	95.0	3.0	3.85	E-BC16	CR	Cr	Fe		
<b>HA</b>	2,977	Titan E3000	<b>SDT20028ZX</b>	4	1st	95.025	2.383	3.45	BF	SR	Cr	Fe	1363-23-206 SE01-23-206 SE01-23-130	
					2nd	95.025	2.383	3.8	T1-IC	CR	Fe	Fe		
					Oil	95.025	4.763	4.65	E-BC16	SR	GN	GN		
<b>WE(3.0L)</b>	2,953	BT-50	<b>SDT20093ZZ</b>	4	1st	96.0	2.0	3.3	BF	SR	GN	GN	WEY1-11-SCO	
					2nd	96.0	1.5	3.3	T1	SR	GN	GN		
					Oil	96.0	2.0	2.75	E-BC16	SR	GN	GN		
<b>VS</b>	2,956		<b>SDT20082ZZ</b>	4	1st	98.0	2.5	3.4	BF-IB	HB	Cr	Fe	VSY1-11-SCOD	
					2nd	98.0	2.0	3.9	T1-IC	CR	Cr	Fe		
					Oil	98.0	3.0	3.25	E-BC16	SR	GN	GN		
<b>SL</b>	3,455	Titan Truck	<b>SDT20044ZX</b>	4	1st	100.0	2.5	3.65	BF-K2	SR	Cr	Fe	SL01-23-206	
		Titan Dump			2nd	100.0	2.0	4.2	T1-IC	CR	Cr	Fe		
					Oil	100.0	4.5	4.6	E-BC16	SR	GN	GN		
				<b>SDT20046ZX</b>	4	1st	100.0	2.5	3.65	BF	SR	Cr	Fe	SL50-11-SCO
						2nd	100.0	2.0	4.2	T1-IC	CR	Cr	Fe	SL07-23-206
						Oil	100.0	4.5	4.6	E-BC16	SR	GN	GN	SLA1-11-SCO

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
TF70	4,021	Titan	SDT20069ZZ	4	1st	105.505	2.5	3.9	BF	SR	GN	GN	TF70-11-SCO
					2nd	105.505	2.0	4.6	T1-IC	CR	Cr	Fe	
					Oil	105.505	3.0	3.25	E-BC16	SR	GN	GN	
TF	4,021	Titan	SDT20057ZZ	4	1st	105.505	2.5	4.5	BF-K3	HB	Cr	Fe	TF01-11-SCO
					2nd	105.505	2.0	4.6	T1-IC	CR	Cr	Fe	
					Oil	105.505	4.5	4.6	E-BC3	CR	Cr	Fe	
TM	4,553	Titan	SDT20081ZZ	4	1st	109.0	3.0	3.7	BF-K2	SR	GN	GN	TMY0-11-SCO
					2nd	109.0	2.0	4.6	T1-IC	CR	Cr	Fe	
					Oil	109.0	3.0	3.25	E-BC16	SR	GN	GN	

## ● Gasoline-engine Automobiles ● ガソリン車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>2G10-2</b>	359	Minica Super Deluxe Minica Sports	<b>SBM30052ZZ</b>	2	1st	62.0	2.5	2.6	BF-K2	HB	Cr	Fe	MD205535
					2nd	62.0	2.5	2.8	P	CR	Fe	Fe	MT205535
					3rd	62.0	2.5	2.8	P	CR	Fe	Fe	
<b>2G21</b>	359	Minica F4	<b>SWM30073ZZ</b>	2	1st	62.0	1.5	2.8	BF	CR	Cr	Fe	MD016760
					2nd	62.0	1.5	2.8	T1	CR	Fe	Fe	MD016765
					Oil	62.0	2.5	3.4	NIFF-S	SR	Cr	Fe	
<b>R06A</b>	658	Minicab	<b>TCC-N-0701</b>	3	1st	64.0	1.0		BF-IB	SR	GN	GN	12140-55S00
					2nd	64.0	1.0		TUC	SR	Fe	Fe	
					Oil	64.0	2.0		NIFF-H	SR	GN	GN	
<b>3G82</b>	796	Minicab 800	<b>SWM31067ZZ</b>	3	1st	65.0	1.5	2.5	BF	SR	GN	GN	MD120081
					2nd	65.0	1.5	2.9	T1	CR	Cr	Fe	
					Oil	65.0	2.8	2.5	NIFF-S	SR	Cr	Fe	
<b>4G82</b>	1,061	CMC Varica Minicab	<b>SWM31068ZZ</b>	4	1st	65.0	1.5	2.5	BF	SR	GN	GN	
					2nd	65.0	1.5	2.9	T1	CR	Cr	Fe	
					Oil	65.0	2.8	2.5	NIFF-S	SR	Cr	Fe	
<b>3G83</b>	657	Minica Minicab Minica Toppo	<b>SWM31144ZZ</b>	3	1st	65.0	1.2	2.25	BF	SR	Cr	Fe	MD160199
					2nd	65.0	1.2	2.75	T1	CR	Fe	Fe	
					Oil	65.0	2.8	2.5	NIFF-S	SR	Cr	Fe	
			<b>SWM31158ZZ</b>	3	1st	65.0	1.0	2.25	BF-IB	SR	Cr	Fe	MD362974
					2nd	65.0	0.8	2.45	T1	HB	Fe	Fe	
					Oil	65.0	2.0	2.5	NIFF-H	SR	Cr	Fe	
<b>4A31</b>	1,094	Pajero Toppo	<b>SWM31136ZZ</b>	4	1st	66.0	1.0	2.25	BF	SR	Cr	Fe	
					2nd	66.0	1.2	2.9	T1	CR	Fe	Fe	
					Oil	66.0	2.5	2.75	NIFF-H	SR	GN	GN	
<b>4G11-EC</b>	1,244	Colt Lancer	<b>SWM31061ZZ</b>	4	1st	68.2	1.5	2.7	BF	SR	GN	GN	MD030360
					2nd	68.2	1.5	3.1	T1	CR	Fe	Fe	MD031730
					Oil	68.2	4.0	3.15	NIFF-S	SR	GN	GN	MD115495
<b>4G11</b>	1,244	Mirage Lancer Dodge Colt	<b>SWM31026ZZ</b>	4	1st	69.5	1.5	3.1	BF	CR	Cr	Fe	MD030350
					2nd	69.5	1.5	3.1	T1	CR	Fe	Fe	MD031670
					Oil	69.5	4.0	3.2	NIFF-S	SR	Cr	Fe	
<b>2G23</b>	546	Minica 550 Minicab Wide 550	<b>SWM31009ZZ</b>	2	1st	70.0	1.5	3.1	BF	CR	Cr	Fe	MD019610
					2nd	70.0	1.5	3.1	T1	CR	Fe	Fe	
					Oil	70.0	2.5	3.05	NIFF-S	SR	Cr	Fe	
<b>4G42</b>	1,187	Lancer 1200 Colt	<b>SWM31012ZZ</b>	4	1st	71.0	2.0	3.3	BF	CR	Cr	Fe	MD010850
					2nd	71.0	2.0	3.3	T1	CR	Fe	Fe	MD010735
					Oil	71.0	4.0	3.85	NIFF-S	SR	Cr	Fe	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
4G13	1,298	Mirage Lancer	SWM31062ZY	4	1st	71.0	1.5	2.65	BF	SR	Cr	Fe	MD074687
					2nd	71.0	1.5	3.1	T1	CR	Fe	Fe	MD078543
					Oil	71.0	4.0	3.25	NIFF-S	SR	Cr	Fe	MD115490
			SWM31082ZX	4	1st	71.0	1.2	2.47	BF	SR	Cr	Fe	MD158908
					2nd	71.0	1.5	3.1	T1	CR	Fe	Fe	
					Oil	71.0	3.0	2.85	NIFF-H	SR	GN	GN	
			SWM31141ZZ	4	1st	71.0	1.2	2.5	BF	SR	GN	GN	MD335422
					2nd	71.0	1.5	3.1	T1	CR	Fe	Fe	
					Oil	71.0	2.8	2.55	NIFF-S	SR	GN	GN	
4G17	1,343	Mirage Colt	SWM31099ZZ	4	1st	72.2	1.2	2.5	BF	SR	GN	GN	MD165325
					2nd	72.2	1.5	3.1	T1	CR	Fe	Fe	
					Oil	72.2	3.0	2.85	NIFF-S	SR	GN	GN	
4G30	1,289	Galant Lancer	SWM30057ZZ	4	1st	73.0	2.0	3.3	BF	CR	Cr	Fe	
					2nd	73.0	2.0	3.3	T1	CR	Fe	Fe	
					Oil	73.0	4.0	3.0	NIFF-S	SR	Cr	Fe	
4G36	1,238	Pony Lancer	SWM31016ZZ	4	1st	73.0	1.5	3.3	BF	SR	Cr	Fe	MD009625
					2nd	73.0	1.5	3.3	T1	CR	Fe	Fe	MD115500
					Oil	73.0	4.0	3.0	NIFF-S	SR	Cr	Fe	
4G33	1,439	Galant Lancer Celeste Delica Fork Lift	SWM31024ZZ	4	1st	73.0	1.5	2.7	BF	SR	GN	GN	
					2nd	73.0	1.5	3.3	T1	CR	Fe	Fe	
					Oil	73.0	4.0	3.2	NIFF-S	SR	GN	GN	
4G12	1,410	Lancer Celeste Mirage Plymouth Champ	SWM31027ZZ	4	1st	74.0	1.5	3.3	BF	CR	Cr	Fe	MD030355
					2nd	74.0	1.5	3.3	T1	CR	Fe	Fe	MD012025
					Oil	74.0	4.0	3.3	NIFF-S	SR	Cr	Fe	MD012035 MD031700
4G31B	1,499	Mirage Galant	SWM31130ZZ	4	1st	74.5	1.5	2.85	BF	SR	Cr	Fe	MD107368
					2nd	74.5	1.5	3.2	T1	CR	Fe	Fe	
					Oil	74.5	4.0	3.2	NIFF-S	SR	Cr	Fe	
6G71	1,998	Debonaire Diamante Galant Σ	SWM31133ZZ	V6	1st	74.7	1.5	3.25	BF	SR	Cr	Fe	MD104889
					2nd	74.7	1.5	3.3	T1	CR	Fe	Fe	MD124452
					Oil	74.7	4.0	3.2	NIFF-S	SR	Cr	Fe	
3A90	999	Mirage Colt Attrage	SWM31168ZZ	3	1st	75.0	1.2	2.5	BF	SR	GN	GN	MN195612
					2nd	75.0	0.8	2.5	T1	SR	Fe	Fe	
					Oil	75.0	2.0	1.95	NIFF-H	SR	GN	GN	
3A92	1,193		SWM31170ZZ	3	1st	75.0	1.0	2.3	BF	SR	GN	GN	1110B699
					2nd	75.0	1.2	2.7	T1	CR	Fe	Fe	
					Oil	75.0	2.0	1.95	NIFF-H	SR	GN	GN	



Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>4A91</b>	1,499	Colt Colt Plus Lancer	<b>SWM31174ZZ</b>	4	1st	75.0	1.2	2.5	BF	SR	GN	GN	1110C722
					2nd	75.0	0.8	2.5	T1	SR	Fe	Fe	
					Oil	75.0	2.0	1.95	NIFF-H	SR	GN	GN	
<b>4A92</b>	1,590	Lancer Galant	<b>SWM31185ZZ</b>	4	1st	75.0	1.0	2.3	BF	SR	GN	GN	1110C488(cyl)
					2nd	75.0	1.2	2.7	T1	CR	Fe	Fe	
					Oil	75.0	2.0	1.95	NIFF-H	SR	GN	GN	
<b>4G15</b>	1,468	Mirage Libero Cargo Lancer Proton	<b>SWM31063ZY</b>	4	1st	75.5	1.5	2.85	BF	SR	Cr	Fe	MD074725
					2nd	75.5	1.5	3.3	T1	CR	Fe	Fe	MD078548
					Oil	75.5	4.0	3.25	NIFF-S	SR	Cr	Fe	MD104656
			<b>SWM31076ZZ</b>	4	1st	75.5	1.2	2.7	BF	SR	GN	GN	MD158549
					2nd	75.5	1.5	3.3	T1	CR	Fe	Fe	MD180804
					Oil	75.5	3.0	2.85	NIFF-H	SR	GN	GN	
			<b>SWM31126ZZ</b>	4	1st	75.5	1.2	2.7	BF	SR	GN	GN	
					2nd	75.5	1.2	3.3	T1	CR	Fe	Fe	
					Oil	75.5	2.8	2.5	NIFF-S	SR	Cr	Fe	
			<b>SWM31145ZZ</b>	4	1st	75.5	1.2	2.7	BF	SR	GN	GN	MD333896
					2nd	75.5	1.5	3.3	T1	CR	Fe	Fe	MD332715
					Oil	75.5	2.8	2.5	NIFF-S	SR	Cr	Fe	MD331313
<b>4G19</b>	1,343	Colt	<b>SWM31176ZZ</b>	4	1st	75.5	1.0	2.7	BF	SR	GN	GN	MN119569
					2nd	75.5	1.2	2.7	TUC	CR	Cr	Fe	
					Oil	75.5	2.0	2.2	NIFF-H	SR	GN	GN	
<b>2G24</b>	548	Minica	<b>SWM31064ZZ</b>	2	1st	76.0	1.5	3.05	BF	SR	Cr	Fe	MD018280
					2nd	76.0	1.5	3.3	T1	CR	Cr	Fe	
					Oil	76.0	2.5	2.8	NIFF-S	SR	Cr	Fe	
<b>4G18</b>	1,584	Lancer	<b>SWM31117ZZ</b>	4	1st	76.0	1.2	2.7	BF	SR	GN	GN	MD349422
					2nd	76.0	1.5	3.1	TUC	CR	Fe	Fe	
					Oil	76.0	2.8	2.55	NIFF-S	SR	GN	GN	
<b>4G18P</b>	1,584	Proton Waja	<b>SWM31127ZZ</b>	4	1st	76.0	1.2	2.7	BF	SR	GN	GN	MD361983
					2nd	76.0	1.2	3.2	TUC	CR	Fe	Fe	MD361982
					Oil	76.0	2.5	2.55	NIFF-S	SR	GN	GN	
<b>4G41</b>	1,378	Galant Coupe FTO Delica	<b>SWM30078ZZ</b>	4	1st	76.5	2.0	3.5	BF	CR	Cr	Fe	MD010710
					2nd	76.5	2.0	3.5	T1	CR	Cr	Fe	MD010715
					Oil	76.5	4.0	3.6	NIFF-S	SR	Cr	Fe	MD011893
<b>4G32</b>	1,597	Colt Galant Σ Sapporo Lancer Celeste Mirage Delica	<b>SWM31005ZZ</b>	4	1st	76.9	2.0	3.5	BF	CR	Cr	Fe	MD000725
					2nd	76.9	2.0	3.5	T1	CR	Fe	Fe	MD004709
					Oil	76.9	4.0	3.8	NIFF-S	SR	Cr	Fe	MD004739
													MD004770
													MD005885
													MD007251
								MD008105					
								MD106741					
								MD110632					

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
<b>4G32B</b>	1,597	Galant Σ Chariot Tredia Cardia	<b>SWM31043ZZ</b>	4	1st	76.9	1.5	3.1	BF	SR	Cr	Fe	MD012765
					2nd	76.9	1.5	3.5	T1	CR	Fe	Fe	MD062387
					Oil	76.9	4.0	3.8	NIFF-S	SR	Cr	Fe	MD093337
													MD099430
<b>2G25</b>	783	Minica	<b>SWM31066ZZ</b>	2	1st	78.0	1.5	3.05	BF	SR	Cr	Fe	MD011810
					2nd	78.0	1.5	3.3	T1	CR	Cr	Fe	MD083152
					Oil	78.0	2.5	2.8	NIFF-S	SR	Cr	Fe	
<b>4G91</b>	1,496	Mirage	<b>SWM31150ZZ</b>	4	1st	78.4	1.2	3.05	BF	SR	Cr	Fe	MD177113
					2nd	78.4	1.2	3.3	T1	CR	Fe	Fe	
					Oil	78.4	2.8	2.6	NIFF-S	SR	Cr	Fe	
<b>6A12</b>	1,998	Eterna Galant Diamante Proton Perdoná	<b>SWM31137ZZ</b>	V6	1st	78.4	1.2	3.05	BF	SR	Cr	Fe	MD302644
					2nd	78.4	1.2	3.5	T1	CR	Fe	Fe	MD189104
					Oil	78.4	2.8	2.6	NIFF-S	SR	Cr	Fe	
<b>4G62 G62B</b>	1,795	Galant Σ Sapporo Lancer	<b>SWM31040ZZ</b>	4	1st	80.6	2.0	3.5	BF	CR	Cr	Fe	MD040610
					2nd	80.6	2.0	3.7	T1	CR	Fe	Fe	MD106736
					Oil	80.6	4.0	3.3	NIFF-S	SR	Cr	Fe	
<b>4G37EC G62B 4G62T</b>	1,755	Tredia Cordia Delica Star Galant Galant Σ	<b>SWM31041ZZ</b>	4	1st	80.6	1.5	3.45	BF	SR	Cr	Fe	MD040465
	1,795				2nd	80.6	1.5	3.7	T1	CR	Fe	Fe	MD077113
					Oil	80.6	4.0	3.3	NIFF-S	SR	Cr	Fe	MD154012
<b>4G51</b>	1,850	Galant	<b>SWM31025ZX</b>	4	1st	81.0	2.0	3.05	BF	SR	Cr	Fe	MD023060
					2nd	81.0	2.0	3.7	T1	CR	Cr	Fe	
					Oil	81.0	4.0	3.25	NIFF-S	SR	Cr	Fe	
<b>4G93</b>	1,834	Galant Lancer Mirage Proton	<b>SWM31079ZZ</b>	4	1st	81.0	1.2	3.2	BF	SR	Cr	Fe	MD173206
					2nd	81.0	1.2	3.6	T1	CR	Fe	Fe	
<b>4G92</b>	1,597				Oil	81.0	2.8	2.7	NIFF-S	SR	Cr	Fe	
<b>4G92</b>	1,597	Mirage Lancer	<b>SWM31085ZZ</b>	4	1st	81.0	1.2	2.9	BF	SR	GN	GN	MD173211
					2nd	81.0	1.2	3.6	T1	CR	Cr	Fe	MD357240
					Oil	81.0	2.8	2.8	NIFF-S	SR	GN	GN	MD180348
<b>6A13-S4</b>	2,498	Legnum	<b>SWM31163ZZ</b>	V6	1st	81.0	1.2	3.2	BF	SR	Cr	Fe	MD336735
					2nd	81.0	1.2	3.6	T1	CR	Fe	Fe	MD344094
					Oil	81.0	2.8	2.7	NIFF-S	SR	Cr	Fe	MD344095
<b>4G67</b>	1,836	Galant Σ Eterna Eterna SAVA	<b>SWM31058ZZ</b>	4	1st	81.5	1.2	3.1	BF	SR	GN	GN	MD153602
					2nd	81.5	1.5	3.6	T1	CR	Cr	Fe	
					Oil	81.5	3.0	2.9	NIFF-S	SR	GN	GN	
<b>4G94-S4</b>	1,999	Lancer Pajero io	<b>SWM31164ZZ</b>	4	1st	81.5	1.2	2.7	BF-IB	SR	GN	GN	1110B098
					2nd	81.5	1.2	3.4	TUC	CR	Fe	Fe	1110B099
					Oil	81.5	2.5	2.45	NIFF-H	SR	Cr	Fe	1110B100 1110B697

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>4G61</b>	1,595	Mirage Lancer	<b>SWM31049ZZ</b>	4	1st	82.3	1.2	3.1	BF	SR	GN	GN	MD133495
					2nd	82.3	1.5	3.8	T1	CR	Cr	Fe	
					Oil	82.3	3.0	2.85	NIFF-S	SR	GN	GN	
<b>6G73</b>	2,497	Sigma 25V Diamante	<b>SWM31154ZZ</b>	V6	1st	83.5	1.2	2.85	BF	SR	Cr	Fe	MD310257
					2nd	83.5	1.5	3.5	T1	CR	Fe	Fe	
					Oil	83.5	3.0	2.85	NIFF-S	SR	Cr	Fe	
<b>6G73-GDI</b>	2,497	Diamante	<b>SWM31169ZZ</b>	V6	1st	83.5	1.2	2.7	BF-IB	SR	GN	GN	MD370494
					2nd	83.5	1.2	3.2	TUC	CR	Cr	Fe	
					Oil	83.5	2.5	2.45	NIFF-H	SR	GN	GN	
<b>4G52</b>	1,995	Galant Σ Sapporo Celeste Jeep A57 A78 A115 A123 J58	<b>SWM30074ZZ</b>	4	1st	84.0	2.0	3.6	BF	HB	Cr	Fe	MD021010 MD021035 MD021070 MD027010
					2nd	84.0	2.0	3.7	T1	CR	Cr	Fe	
					Oil	84.0	4.0	3.8	NIFF-S	SR	Cr	Fe	
<b>4G63</b>	1,997	Galant Σ Sapporo	<b>SWM31013ZY</b>	4	1st	85.0	2.0	3.1	BF	SR	GN	GN	MD040640 MD040840 MD041580
					2nd	85.0	2.0	3.7	T1	CR	Fe	Fe	
					Oil	85.0	4.0	3.25	NIFF-S	SR	Cr	Fe	
		Lancer Eclipse Chariot RVR	<b>SWM31048ZZ</b>	4	1st	85.0	1.2	3.1	BF	SR	GN	GN	MD133485
					2nd	85.0	1.5	3.8	TUC	CR	Cr	Fe	
					Oil	85.0	3.0	2.85	NIFF-S	SR	GN	GN	
		Galant Chariot	<b>SWM31103ZZ</b>	4	1st	85.0	1.2	3.1	BF-IB	SR	GN	GN	MD195810 MD313405
					2nd	85.0	1.5	3.8	TUC	CR	Cr	Fe	
					Oil	85.0	2.8	2.55	NIFF-S	SR	GN	GN	
<b>G63B</b>	1,997	Galant Σ Starion	<b>SWM31034ZZ</b>	4	1st	85.0	1.5	3.05	BF	SR	Cr	Fe	MD088941
					2nd	85.0	1.5	3.8	T1	CR	Cr	Fe	
					Oil	85.0	4.0	3.15	NIFF-S	SR	Cr	Fe	
<b>G63B G63B T/C</b>	1,997	Galant Σ Chariot Pajero	<b>SWM31044ZZ</b>	4	1st	85.0	1.5	3.5	BF	SR	Cr	Fe	MD100467 MD105516 MD147835
					2nd	85.0	1.5	3.8	T1	CR	Fe	Fe	
					Oil	85.0	4.0	3.3	NIFF-S	SR	Cr	Fe	
<b>4G63</b>	1,997	Savrin	<b>SWM31143ZZ</b>	4	1st	85.0	1.2	3.1	BF-IB	SR	GN	GN	MN149594
					2nd	85.0	1.2	3.5	TUC	CR	Fe	Fe	
					Oil	85.0	2.0	2.3	NIFF-H	SR	Cr	Fe	
<b>4G63K</b>	1,997	Galant Σ Eterna Eterna SAVA Chariot	<b>SWM31071ZZ</b>	4	1st	85.0	1.2	3.1	BF-IB	SR	GN	GN	MD195850
					2nd	85.0	1.5	3.8	TUC	CR	Cr	Fe	
					Oil	85.0	3.0	2.55	NIFF-S	SR	GN	GN	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
<b>4B10</b>	1,798	Galant Fortis Lancer	<b>SWM31178ZZ</b>	4	1st	86.0	1.2	3.05	BF	SR	Cr	Fe	1110A436
					2nd	86.0	1.2	3.6	TUC	CR	Fe	Fe	
					Oil	86.0	2.0	2.45	NIFF-H	SR	Cr	Fe	
<b>4B11</b>	1,998	Lancer Evolution Galant Fortis											
<b>G64B</b> <b>4G64</b>	2,350	Delica Wagon Chariot Air Treck	<b>SWM31037ZZ</b>	4	1st	86.5	1.5	3.45	BF	SR	Cr	Fe	MD085346
					2nd	86.5	1.5	3.8	TUC	CR	Fe	Fe	MD103580
					Oil	86.5	4.0	3.3	NIFF-S	SR	Cr	Fe	
<b>4G64K</b>	2,350	Delica Wagon	<b>SWM31072ZZ</b>	4	1st	86.5	1.2	3.1	BF-IB	SR	Cr	Fe	MD195872
					2nd	86.5	1.5	3.8	TUC	CR	Fe	Fe	
					Oil	86.5	3.0	2.55	NIFF-S	SR	Cr	Fe	
<b>4G64</b>	2,350	Galant	<b>SWM31116ZZ</b>	4	1st	86.5	1.2	3.1	BF-IB	SR	Cr	Fe	MD195828
					2nd	86.5	1.5	3.8	TUC	CR	Fe	Fe	MD194597
					Oil	86.5	2.8	2.55	NIFF-S	SR	Cr	Fe	
<b>4G69S</b>	2,378	Lancer Air Treck Galant Eclipse	<b>SWM31161ZZ</b>	4	1st	87.0	1.2	3.1	BF-IB	SR	GN	GN	1110A966
					2nd	87.0	1.2	3.4	TUC	CR	Fe	Fe	1110A967
					Oil	87.0	2.0	2.2	NIFF-H	SR	GN	GN	
<b>420A</b>	1,997	Eclipse	<b>SWM31120ZZ</b>	4	1st	87.5	1.2	3.45	BF	SR	Cr	Fe	M04741401
					2nd	87.5	1.2	4.0	T1	CR	Fe	Fe	
					Oil	87.5	3.0	2.9	NIFF-S	SR	Cr	Fe	
<b>6B31</b>	2,998	Outlander Pajero Sport	<b>SWM31181ZZ</b>	V6	1st	87.6	1.2	3.1	BF-IB	SR	GN	GN	1110B435
					2nd	87.6	1.0	2.95	T1	HB	Fe	Fe	
					Oil	87.6	2.0	2.4	NIFF-H	SR	Cr	Fe	
<b>4G53</b>	2,384	Jeep Canter Rosa	<b>SWM31021ZZ</b>	4	1st	88.0	2.0	3.8	BF	HB	Cr	Fe	MD025000
					2nd	88.0	2.0	4.1	T1	CR	Cr	Fe	MD026985
					Oil	88.0	4.0	3.3	NIFF-S	SR	Cr	Fe	
<b>4B12</b>	2,359	Lancer Delica D:5 Outlander	<b>SWM31173ZZ</b>	4	1st	88.0	1.2	3.05	BF-IB	SR	Cr	Fe	1110A822
					2nd	88.0	1.2	3.6	TUC	CR	Fe	Fe	
					Oil	88.0	2.0	2.45	NIFF-H	SR	Cr	Fe	
<b>4G54T</b>	2,555	Starion	<b>SWM31039ZZ</b>	4	1st	91.1	1.5	3.3	BF	SR	GN	GN	MD061258
					2nd	91.1	1.5	3.8	T1	CR	Cr	Fe	MD076170
					Oil	91.1	4.0	3.25	NIFF-S	SR	GN	GN	MD080598 MD101895 MD106752

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference		
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower			
<b>4G54B</b>	2,555	Jeep	<b>SWM31047ZZ</b>	4	1st	91.1	2.0	3.5	BF	HB	Cr	Fe	MD025089		
		Debonair			2nd	91.1	2.0	3.8	T1	CR	Cr	Fe	MD026835		
		Galant Σ			Oil	91.1	4.0	3.25	NIFF-S	SR	Cr	Fe	MD026960		
		Sapporo											MD027140		
Dodge											MD107813				
Challenger											MD107818				
<b>6G72</b>	2,952	Galant Σ	<b>SWM31078ZZ</b>	V6	1st	91.1	1.2	3.3	BF	SR	Cr	Fe	MD165949		
		Pajero			2nd	91.1	1.5	3.8	T1	CR	Cr	Fe	MD301803		
					Oil	91.1	3.0	2.9	NIFF-S	SR	Cr	Fe	MD329755		
													1110B180		
		Galant Σ			<b>SWM31080ZZ</b>	V6	1st	91.1	1.5	3.25	BF	SR	Cr	Fe	MD104922
		Debonair					2nd	91.1	1.5	3.8	T1	CR	Cr	Fe	MD104939
	Oil	91.1	4.0	3.25			NIFF-S	SR	Cr	Fe	MD129548				
<b>6G72-S4</b>	2,972	Galant GTO	<b>SWM31177ZZ</b>	V6	1st	91.1	1.2	3.3	BF	SR	GN	GN	MD374009		
		Galant Σ			2nd	91.1	1.2	3.5	TUC	CR	Fe	Fe			
		Pajero			Oil	91.1	2.5	2.5	NIFF-H	SR	Cr	Fe			
		Diamante													
<b>6G72-S4(NEW)</b>	2,972	Galant GTO	<b>SWM31078ZY</b>	V6	1st	91.1	1.2	3.3	BF	SR	GN	GN	1110A937		
		Pajero			2nd	91.1	1.5	3.8	T1	CR	Cr	Fe			
		Diamante			Oil	91.1	3.0	2.85	NIFF-H	SR	GN	GN			
<b>6G74</b>	3,496	Debonair	<b>SWM31121ZZ</b>	V6	1st	93.0	1.5	3.45	BF-IB	SR	Cr	Fe	MD322783		
					2nd	93.0	1.5	3.9	TUC	CR	Fe	Fe	MD300569		
					Oil	93.0	3.0	3.0	NIFF-S	SR	Cr	Fe			
<b>6G74-GDI</b>	3,497	Pajero	<b>SWM31121ZY</b>	V6	1st	93.0	1.5	3.3	BF	SR	GN	GN	MD366688		
		Challenger			2nd	93.0	1.5	3.9	TUC	CR	Fe	Fe			
					Oil	93.0	3.0	2.85	NIFF-S	SR	GN	GN			
<b>6G74-GDI-1</b>	3,497	Pajero	<b>SWM31166ZZ</b>	V6	1st	93.0	1.2	3.5	BF	SR	GN	GN	MN119685		
					2nd	93.0	1.2	3.5	TUC	CR	Fe	Fe			
					Oil	93.0	2.5	2.6	NIFF-S	SR	GN	GN			
<b>6G75</b>	3,828	Pajero	<b>SWM31148ZZ</b>	V6	1st	95.0	1.2	3.5	BF-IB	SR	GN	GN	MN183867		
					2nd	95.0	1.2	3.4	TUC	CR	Fe	Fe	1110A497		
					Oil	95.0	2.0	2.55	NIFF-H	SR	GN	GN	1110B806		
													1110B571		

## ● Diesel-engine Automobiles ● ディーゼル車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>K3B</b>		Combine Harvester Tractor	<b>YDM30119ZZ</b>	1	1st	68.0	2.5	2.8	BF	CR	Cr	Fe	MM433340
					2nd	68.0	2.5	3.0	T1	CR	Fe	Fe	
					3rd	68.0	2.5	2.75	TUC	CR	Fe	Fe	
					Oil	68.0	4.0	3.2	E-BC16	CR	Cr	Fe	
<b>K4E</b>		For Industrial Machine	<b>YDM30112ZZ</b>	1	1st	76.0	2.49	3.3	BF-K2	CR	Cr	Fe	MM431579
					2nd	76.0	2.0	3.3	T1-IC	CR	Fe	Fe	
					Oil	76.0	4.0	3.6	E-BC16	CR	Cr	Fe	
<b>L2E</b> <b>L3E</b>		For Industrial Machine	<b>YDM31162ZZ</b>	1	1st	76.0	2.0	3.1	BF-K2	HB	Cr	Fe	MM433152
					2nd	76.0	2.0	3.2	T1	CR	Fe	Fe	
					Oil	76.0	3.0	3.25	E-BC16	SR	GN	GN	
<b>4D65</b>	1,795	Mirage Colt C14A	<b>SDM31090ZX</b>	4	1st	80.6	2.0	3.05	BF-K2	SR	Cr	Fe	MD071206 MD127022 MD127017
					2nd	80.6	2.0	3.7	T1	CR	Cr	Fe	
					Oil	80.6	4.0	4.35	E-BC16	SR	GN	GN	
<b>4D68NA</b>	1,998	Galant Proton	<b>SDM31104ZZ</b>	4	1st	82.7	2.0	3.25	BF-K2	SR	Cr	Fe	MD197162
					2nd	82.7	2.0	3.5	TUC	CR	Cr	Fe	
					Oil	82.7	3.0	3.25	E-BC16	SR	GN	GN	
<b>4D68T</b>	1,998	Chariot	<b>SDM31151ZZ</b>	4	1st	82.7	2.0	3.1	BF-K2-IB	SR	GN	GN	MD197187
					2nd	82.7	2.0	3.5	T1-K2	HB	Cr	Fe	
					Oil	82.7	3.0	3.25	E-BC16	SR	GN	GN	
<b>4DQ5</b>	2,084	Canter Fork Lift FD15	<b>SDM31010ZZ</b>	4	1st	84.0	2.5	3.6	BF	HB	Cr	Fe	30615-51011 30617-51011
					2nd	84.0	2.0	3.6	T1	CR	Fe	Fe	
					Oil	84.0	4.0	4.0	E-BC3	CR	Cr	Fe	
<b>4N15</b>	2,442	All New Triton All New Pajero Sports	<b>SDM31171ZZ</b>	4	1st	86.0	2.0	2.9	BF-K2	SR	GN	GN	1110C712
					2nd	86.0	1.5	2.9	T1	SR	GN	GN	
					Oil	86.0	2.0	2.75	E-BC16	SR	GN	GN	
<b>4D55T</b> <b>4D56</b> <b>4D56TDI</b>	2,346 2,476	Galant Σ Galant Sapporo	<b>SDM31038ZX</b>	4	1st	91.1	2.5	3.25	BF-K2	SR	Cr	Fe	MD050390 MD103391 1110A561
					2nd	91.1	2.0	3.9	T1-K2	CR	Cr	Fe	
					Oil	91.1	4.0	4.35	E-BC16	SR	GN	GN	
<b>4D56T</b>	2,476	Strada Delica Wagon Space Gear Challenger	<b>SDM31160ZZ</b>	4	1st	91.1	2.5	3.3	BF-K2	SR	GN	GN	1110B977V T
					2nd	91.1	2.0	3.5	T1-K2	HB	Cr	Fe	
					Oil	91.1	3.0	3.25	E-BC16	SR	GN	GN	
<b>4D55</b> <b>4D56</b>	2,346 2,476	Galant Σ	<b>SDM31055ZX</b>	4	1st	91.1	2.5	3.45	BF	SR	Cr	Fe	MD050395
					2nd	91.1	2.0	3.8	T1	CR	Cr	Fe	
					Oil	91.1	4.0	4.35	E-BC16	SR	GN	GN	



Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>4DR5</b>	2,659	Canter T96A T96B T200C T200F T210CT Jeep J24 J36 J44 J54 J24H Rosa B200 B210	<b>SDM30075ZX</b>	4	1st	92.0	2.5	3.45	BF-K2	SR	Cr	Fe	31617-02012
					2nd	92.0	2.0	3.9	T1	CR	Fe	Fe	31617-02013
					3rd	92.0	2.0	3.9	T1	CR	Fe	Fe	31617-05102
					Oil	92.0	4.5	4.6	E-BC16	SR	GN	GN	31617-05103
<b>6DR5</b>	3,983	Rosa T44 T44B Fork Lift FD60 Jupiter	<b>SDM30076ZX</b>	6	1st	92.0	2.5	3.45	BF-K2	SR	Cr	Fe	31717-12012
					2nd	92.0	2.0	3.9	T1	CR	Fe	Fe	31717-12013
					3rd	92.0	2.0	3.9	T1	CR	Fe	Fe	
					Oil	92.0	4.5	4.6	E-BC16	SR	GN	GN	
<b>4DR52T-1</b>	2,659	Canter	<b>SDM31129ZZ</b>	4	1st	92.0	2.35	3.45	BF-K1	SR	Cr	Fe	ME996069
					2nd	92.0	2.0	3.45	T1-IC	CR	Cr	Fe	
					Oil	92.0	4.0	4.35	E-BC16	SR	GN	GN	
<b>S4E</b>	2,609	Fork Lift	<b>SDM30110ZZ</b>	4	1st	94.0	2.5	4.0	BF-K2	HB	Cr	Fe	34417-11011
					2nd	94.0	2.0	4.0	T1	CR	Fe	Fe	
					Oil	94.0	4.5	4.45	E-BC3	HB	Cr	Fe	
<b>S4S</b>	3,331	For Industrial Machine Bulldozer	<b>SDM30118ZZ</b>	4	1st	94.0	2.5	3.3	BF-K2	SR	GN	GN	32A17-02010
					2nd	94.0	2.0	3.8	T1-IC	CR	Cr	Fe	
					Oil	94.0	4.0	4.25	E-BC16	SR	GN	GN	
<b>6DS3</b>	5,103	T652B B622	<b>SDM31001ZZ</b>	6	1st	95.0	3.0	3.9	BF-K2	HB	Cr	Fe	ME021855
					2nd	95.0	2.0	4.1	T1-IC	CR	Cr	Fe	ME023327
					Oil	95.0	4.5	4.2	E-BC3	CR	Cr	Fe	ME023327-02
<b>4M40-NA 4DR7</b>	2,835	Canter Pajero	<b>SDM31095ZX</b>	4	1st	95.0	2.35	3.45	BF-K1	SR	Cr	Fe	ME202342
					2nd	95.0	2.0	3.7	T1-IC	HB	Cr	Fe	ME202950
					Oil	95.0	4.0	4.15	E-BC16	SR	GN	GN	ME997256
<b>4M40</b>	2,835	Pajero	<b>SDM31114ZZ</b>	4	1st	95.0	2.306	3.45	BF-K1	SR	Cr	Fe	ME201522
					2nd	95.0	2.0	3.9	T1-IC	CR	Cr	Fe	ME202380
					Oil	95.0	4.0	4.15	E-BC16	SR	GN	GN	MD997894
<b>4M40-TC 4M42</b>	2,835	Pajero	<b>SDM31140ZZ</b>	4	1st	95.0	2.306	3.45	BF-K1	SR	Cr	Fe	ME202148
					2nd	95.0	2.0	4.1	T1-IC	CR	Cr	Fe	ME190317
					Oil	95.0	3.0	3.25	E-BC16	SR	GN	GN	ME993211 ME993212
<b>4P10</b>	2,998	Canter	<b>SDM31175ZZ</b>	4	1st	95.8	2.35	3.5	BF-K1	SR	GN	GN	MK667801
					2nd	95.8	2.0	4.0	T1	HB	Fe	Fe	
					Oil	95.8	2.5	2.85	E-BC16	SR	GN	GN	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>6DS7</b>	5,430	Truck T653B T653BG T663C T663ZD FK102 Tractor T653ZR Bus B623B B623E	<b>SDM31002ZZ</b>	6	1st	98.0	3.0	4.0	BF-K2	HB	Cr	Fe	ME023333
					2nd	98.0	2.0	4.2	T1-IC	CR	Cr	Fe	ME023333-02
					Oil	98.0	5.0	4.8	E-BC3	CR	Cr	Fe	ME021861 ME024409
<b>4M41-T1</b>	3,200	Pajero	<b>SDM31149ZZ</b>	4	1st	98.5	2.35	3.4	BF-K1	HB	Cr	Fe	ME203533
					2nd	98.5	1.5	3.5	T1-IB	SR	GN	GN	
					Oil	98.5	3.0	3.25	E-BC16	SR	GN	GN	
<b>4M41-PUS</b>	3,200	Pajero Sports	<b>SDM31149ZY</b>	4	1st	98.5	2.35	3.5	BF-K1	SR	GN	GN	1110B654
					2nd	98.5	1.5	3.5	T1-IB	SR	GN	GN	
					Oil	98.5	3.0	3.65	E-BC16	SR	GN	GN	
<b>4D30</b>	3,298	Truck FE111 · 121 · 211 Bus BE211 Rosa	<b>SDM31014ZX</b>	4	1st	100.0	3.0	3.65	BF-K2	SR	Cr	Fe	ME012010 ME012070
					2nd	100.0	2.0	4.2	T1-IC	CR	Cr	Fe	
					Oil	100.0	5.0	4.95	E-BC16	SR	GN	GN	
<b>4D31T</b>	3,298	Canter	<b>SDM31081ZX</b>	4	1st	100.0	3.0	3.65	BF-K2	SR	Cr	Fe	ME997396 ME997398 ME012848
					2nd	100.0	2.0	4.2	T1-IC	CR	Cr	Fe	
					Oil	100.0	4.0	4.35	E-BC16	SR	GN	GN	
<b>6D31T</b>	4,948	Fighter	<b>SDM31088ZX</b>	6	1st	100.0	3.0	3.65	BF-K2	SR	Cr	Fe	ME999783
					2nd	100.0	2.0	4.2	T1-IC	CR	Cr	Fe	
					Oil	100.0	4.0	4.35	E-BC16	SR	GN	GN	
<b>6D31</b>	4,948	Fighter	<b>SDM31102ZZ</b>	6	1st	100.0	3.0	4.0	BF-K2	HB	Cr	Fe	
					2nd	100.0	2.0	4.2	T1-IC	CR	Cr	Fe	
					Oil	100.0	5.0	4.8	E-BC3	CR	Cr	Fe	
<b>S6KT</b>	6,380	For Industrial Machine	<b>SDM30108ZX</b>	6	1st	102.0	3.0	4.05	BF-K2	SR	Cr	Fe	34317-19010
					2nd	102.0	2.0	4.0	T1-K2	CR	Cr	Fe	
					Oil	102.0	4.0	4.15	E-BC16	SR	GN	GN	
<b>4D34</b>	3,907	Truck FE439	<b>SDM31157ZZ</b>	4	1st	104.0	3.0	4.2	BF	HB	Cr	Fe	ME997237
					2nd	104.0	2.0	4.2	T1-IC	CR	Cr	Fe	
					Oil	104.0	4.0	4.15	E-BC16	SR	Cr	Fe	
<b>4D34T</b>	3,907	Canter Rosa Fighter	<b>SDM31075ZX</b>	4	1st	104.0	2.806	3.85	BF-K1	SR	Cr	Fe	ME997240
					2nd	104.0	2.0	4.2	T1-IC	CR	Cr	Fe	
					Oil	104.0	4.0	4.4	E-BC16	SR	GN	GN	
<b>6D34T</b>	5,861	Truck	<b>SDM31182ZX</b>	6	1st	104.0	2.806	3.85	BF-K1	SR	Cr	Fe	ME996442
					2nd	104.0	2.0	4.2	T1-IC	CR	Cr	Fe	
					Oil	104.0	4.0	4.4	E-BC16	SR	GN	GN	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference		
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower			
4D32	3,567	Canter	SDM31098ZX	4	1st	104.0	3.0	3.65	BF-K2	SR	Cr	Fe	ME997318		
					2nd	104.0	2.0	4.2	T1-IC	CR	Cr	Fe			
					Oil	104.0	4.0	4.4	E-BC16	SR	GN	GN			
6D10	5,974	Truck T654B T654ZR	SDM31006ZZ	6	1st	105.0	3.0	4.2	BF-K2	HB	Cr	Fe	ME032190		
6D11	6,754	FK103 KK103			2nd	105.0	2.0	4.4	T1-IC	CR	Cr	Cr	Fe	ME032190-01	
		Bus MK103H MM504			Oil	105.0	5.0	4.8	E-BC3	CR	Cr	Cr	Fe	ME032326	
4D33	4,214	Canter	SDM31097ZX	4	1st	108.0	3.0	4.05	BF	SR	Cr	Fe	ME996378		
					2nd	108.0	2.0	4.4	T1-IC	CR	Cr	Fe			
					Oil	108.0	4.0	4.4	E-BC16	SR	GN	GN			
4D35	4,561	Rosa Canter	SDM31118ZZ	4	1st	110.0	3.0	4.1	BF	SR	GN	GN	ME996628		
					2nd	110.0	2.5	4.4	T1-IC	CR	Cr	Fe	ME995237		
					Oil	110.0	4.0	4.35	E-BC16	SR	GN	GN			
					SDM31152ZZ	4	1st	110.0	3.0	3.85	BF-IB	SR	Cr	Fe	ME995214
							2nd	110.0	2.0	3.65	T1-IB	SR	Cr	Fe	
							Oil	110.0	4.0	4.15	E-BC16	SR	Cr	Fe	
6D14	6,557	Truck FK115 · 115H FK115J FK115K · 115DK T656ZR FM215	SDM31007ZX	6	1st	110.0	3.0	4.05	BF-K2	SR	Cr	Fe	ME032071		
					2nd	110.0	2.5	4.4	T1-IC	CR	Cr	Fe	ME032260		
					Oil	110.0	5.0	4.95	E-BC16	SR	GN	GN	ME032404 ME032458		
		Bus MK115 · 115H MM115C	SDM31089ZX	6	1st	110.0	3.0	4.1	BF	SR	GN	GN	ME999952		
					2nd	110.0	2.5	4.4	T1-IC	CR	Cr	Fe			
					Oil	110.0	4.0	4.35	E-BC16	SR	GN	GN			
6D14T	6,557	Bus MK115 · 115H MM115 · 515	SDM31122ZZ	6	1st	110.0	2.806	4.05	BF-K1	SR	Cr	Fe	ME997465		
					2nd	110.0	2.5	4.0	T1-IC	CR	Cr	Fe			
					Oil	110.0	4.0	4.35	E-BC16	SR	GN	GN			
6DB	8,550	Truck T330 T330D T335 T370 T380 T383 T390 T410D T480 K100 4K100 4K120 Bus R470 AR470 AM480 MR410 MR420 MR430 MR490 MR510	SDM30005ZX	6	1st	110.0	3.5		BF	SR	GN	GN	30017-71002		
					2nd	110.0	2.5	4.7	T1-IC	CR	Cr	Fe	30017-71003		
					3rd	110.0	2.5	4.7	BI-UC	CR	Fe	Fe	30017-75002		
					Oil	110.0	5.0	4.7	E-C1	CR	Cr	Fe	30017-75003		

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
<b>6D15</b>	6,919	Fighter Aero Midi	<b>SDM31073ZX</b>	6	1st	113.0	3.0	4.05	BF-K2	SR	Cr	Fe	ME032403
					2nd	113.0	2.5	4.4	T1-IC	CR	Cr	Fe	ME072306
					Oil	113.0	5.0	4.95	E-BC16	SR	GN	GN	
<b>6D15T</b>	6,919	Truck FM316 FM216 M116 · 516	<b>SDM31119ZZ</b>	6	1st	113.0	2.806	4.05	BF-K1	SR	Cr	Fe	ME997466
					2nd	113.0	2.5	4.4	T1-IC	CR	Cr	Fe	ME999929
					Oil	113.0	4.0	4.35	E-BC16	SR	GN	GN	ME999954
<b>4M50</b>	4,899	Truck Canter	<b>SDM31172ZZ</b>	4	1st	114.0	2.806	4.1	BF-K1	SR	GN	GN	ME995590
					2nd	114.0	2.0	3.7	T1-IB	SR	GN	GN	ME993913
					Oil	114.0	4.0	4.35	E-BC16	SR	GN	GN	
<b>4M51</b>	5,249	Truck Canter	<b>SDM31156ZZ</b>	4	1st	118.0	3.0	4.1	BF	SR	GN	GN	ME995591
					2nd	118.0	2.0	4.1	T1	SR	GN	GN	ME995592
					Oil	118.0	4.0	4.4	E-BC16	SR	GN	GN	ME995593
<b>6D16</b>	7,545	Truck FK417 FK517	<b>SDM31051ZX</b>	6	1st	118.0	3.0	4.1	BF	SR	GN	GN	ME999955
					2nd	118.0	2.5	4.6	T1-IC	CR	Cr	Fe	ME999540
					Oil	118.0	4.0	4.55	E-BC16	SR	GN	GN	ME996229 ME996231
<b>6D16T</b>	7,545	Truck FK617A FK618	<b>SDM31054ZX</b>	6	1st	118.0	2.806	4.1	BF-K1	SR	GN	GN	ME997467
					2nd	118.0	2.5	4.6	T1-IC	CR	Cr	Fe	ME997999
					Oil	118.0	4.0	4.55	E-BC16	SR	GN	GN	ME999549
<b>6D17</b>		Truck Fighter Aero Midi	<b>SDM31159ZZ</b>	6	1st	118.0	2.806	4.1	BF-K1	SR	GN	GN	ME995563
					2nd	118.0	2.5	4.6	T1-IC	CR	Cr	Fe	ME995561 (cyl)
					Oil	118.0	4.0	4.4	E-BC16	SR	GN	GN	ME995535 ME995536 (cyl)
<b>6M60T</b>			<b>SDM31107ZY</b>	6	1st	118.0	2.806	4.1	BF-K1	SR	GN	GN	ME993728
					2nd	118.0	2.5	4.6	T1-IC	HB	Cr	Fe	ME993729 (cyl)
					Oil	118.0	4.0	4.35	E-BC16	SR	GN	GN	ME996593
<b>N6M60T</b>	7,545	Truck	<b>TCC-Q-0746</b>	6	1st	118.0	2.8		BF-K1	SR	GN	GN	ME990062
					2nd	118.0	2.5		T1-IB	SR	GN	GN	ME990063
					Oil	118.0	3.0		E-BC16	SR	GN	GN	
<b>D2700</b>		For Industrial Machine	<b>YDM31033ZZ</b>	1	1st	118.0	3.0	4.6	BF	CR	Cr	Fe	MM332391
					2nd	118.0	2.5	4.6	T1-IC	CR	Cr	Fe	MM334038
					Oil	118.0	4.0	4.2	E-BC3	CR	Cr	Fe	
<b>6M61</b>	8,201	Fighter	<b>SDM31106ZZ</b>	6	1st	118.0	3.0	4.1	BF	SR	GN	GN	ME995562
					2nd	118.0	2.0	4.3	T1-IB	SR	GN	GN	ME995560 (cyl)
					Oil	118.0	4.0	4.35	E-BC16	SR	GN	GN	
<b>6M61CNG</b>	8,201	Truck CNG Fighter	<b>SDM31123ZY</b>	6	1st	118.0	2.5	3.9	BF	SR	GN	GN	ME993687
					2nd	118.0	2.0	4.3	TUC	HB	Cr	Fe	ME993688
					Oil	118.0	4.0	4.35	E-BC16	SR	GN	GN	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
6D20 6D21	10,308	Truck NP117 FD217R K202 Bus MP117H	SDM31011ZZ	6	1st	125.0	4.0	5.0	BF-K3	HB	Cr	Fe	30917-01012
		2nd			125.0	3.0	5.3	T1-IC	CR	Cr	Fe	30917-01013	
		Oil			125.0	6.0	5.6	E-BC3	CR	Cr	Fe		
		Truck NP117 FD117 K202 Bus MP117 MP517	SDM31023ZY	6	1st	125.0	3.306	5.4	BF-K1	HB	Cr	Fe	ME052145
2nd	125.0	3.0			5.3	T1-IC	CR	Cr	Fe				
Oil	125.0	6.0			5.6	E-BC3	CR	Cr	Fe				
		Bus	SDM31030ZZ	6	1st	125.0	3.0	5.2	BF	HB	Cr	Fe	ME052260
					2nd	125.0	3.0	5.3	T1-IC	CR	Cr	Fe	
					Oil	125.0	6.0	5.5	E-BC3	CR	Cr	Fe	
6DC2	9,955	Truck/T800H T810H T910Q T910K Bus/B800 JB800K B805K B805M B810K B815K	SDM30007ZZ	6	1st	130.0	4.0	5.0	BF-K2	HB	Cr	Fe	31117-00009
		2nd			130.0	3.0	5.3	T1-IC	CR	Cr	Fe	31117-02010	
		Oil			130.0	6.0	5.5	E-BC3	CR	Cr	Fe	31117-70010 ME062117	
8DC2 8DC4 8DC7	13,273	Truck T931 T811 T910 FT102 FV112 Bus B910 B801	SDM30008ZY	V8	1st	130.0	4.0	5.0	BF-K2	HB	Cr	Fe	31217-02010
		2nd			130.0	3.0	5.4	T1-IC	CR	Cr	Fe	ME062100	
			SDM31020ZX	V8	Oil	130.0	6.0	5.5	E-BC3	CR	Cr	Fe	
					1st	130.0	3.306	4.55	BF-K1	SR	Cr	Fe	ME062298
					2nd	130.0	3.0	5.3	T1-IC	CR	Cr	Fe	
					Oil	130.0	6.0	5.5	E-BC16	CR	Cr	Fe	
6D22 6D22T	11,149	Truck FFT318 FP318 Bus/HP118 MP518 Fork Lift	SDM31015ZX	6	1st	130.0	3.306	4.5	BF-K1	SR	GN	GN	30917-20010
		2nd			130.0	3.0	5.3	T1-IC	CR	Cr	Fe	ME052124	
		Oil			130.0	6.0	5.5	E-BC16	CR	Cr	Fe	ME052787	
6D24	11,945	Aero Star The Great	SDM31094ZX	6	1st	130.0	3.306	4.55	BF-K1	SR	Cr	Fe	ME151190
					2nd	130.0	3.0	4.7	T1-IC	SR	GN	GN	
					Oil	130.0	4.0	4.15	E-BC16	SR	Cr	Fe	
6D24T	11,945	Truck	SDM31105ZY	6	1st	130.0	3.306	4.5	BF-K1	SR	GN	GN	ME995636 (cyl)
					2nd	130.0	2.5	4.7	T1-IB	SR	GN	GN	
					Oil	130.0	4.0	4.35	E-BC16	SR	GN	GN	
6D22 6D22T2	11,149	Truck FP308 MP118 MP518	SDM31111ZX	6	1st	130.0	3.306	4.5	BF-K1	SR	GN	GN	ME052889
		2nd			130.0	3.0	5.3	T1-IC	CR	Cr	Fe	ME995467	
		Oil			130.0	4.0	4.45	E-BC16	SR	GN	GN	ME350961	
													ME993736
												ME996142	
												ME996540	
												ME996544 (cyl)	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
<b>6D22 6D24</b>	11,149 11,945	The Great	<b>SDM31057ZX</b>	6	1st	130.0	3.0	4.7	BF	SR	GN	GN	ME052966
					2nd	130.0	3.0	5.3	T1-IC	HB	Cr	Fe	ME999136(cyl)
					Oil	130.0	4.0	4.45	E-BC16	SR	GN	GN	ME995473 ME995465(cyl) ME996391
<b>6R10</b>	12,808	Super Great Aero Ace	<b>SDM31183ZZ</b>	6	1st	132.0	3.306	4.7	BF-K1	SR	GN	GN	MX901417
					2nd	132.0	2.5	4.75	T1-RC	HB	Cr	Fe	
					Oil	132.0	3.5	3.98	E-BC16	CR	Cr	Fe	
<b>8DC6 8DC8</b>	14,886	Truck FS313 NW Bus/B907N NA SA MS513 MS613	<b>SDM31004ZZ</b>	V8	1st	135.0	4.0	5.0	BF-K2	HB	Cr	Fe	31217-60012 ME062086
					2nd	135.0	3.0	5.7	T1-IC	CR	Cr	Fe	
					Oil	135.0	6.0	5.5	E-BC3	CR	Cr	Fe	
<b>8DC6 8DC81(NEW)</b>	14,886	FT FJ FV	<b>SDM31028ZZ</b>	V8	1st	135.0	3.306	5.4	BF-K1	HB	Cr	Fe	ME062022 ME062246
					2nd	135.0	3.0	5.5	T1-IC	CR	Cr	Fe	
					Oil	135.0	6.0	5.5	E-BC3	CR	Cr	Fe	
<b>8DC91 8DC9T</b>	16,031	Truck FU 11.5ton FV 10.75ton FT EW Bus MS	<b>SDM31029ZX</b>	V8	1st	135.0	3.306	4.75	BF-K1	SR	Cr	Fe	ME062018 ME062230
					2nd	135.0	3.0	5.5	T1-IC	CR	Cr	Fe	
					3rd	135.0	3.0	5.5	B1-UC	CR	Cr	Fe	
					Oil	135.0	6.0	5.5	E-BC3	CR	Cr	Fe	
<b>6D40-T</b>	12,023	The Great Truck	<b>SDM31056ZX</b>	6	1st	135.0	3.306	4.75	BF-K1	SR	Cr	Fe	ME120536 ME121332 ME996132 (cyl)
					2nd	135.0	3.0	5.5	T1-IC	CR	Cr	Fe	
					Oil	135.0	4.0	4.35	E-BC16	SR	GN	GN	
<b>8DC9T</b>	16,031	Aero King Aero Queen The Great	<b>SDM31087ZY</b>	V8	1st	135.0	3.306	5.4	BF-K1	HB	Cr	Fe	ME090578
					2nd	135.0	3.0	5.5	T1-IC	CR	Cr	Fe	
					3rd	135.0	3.0	5.5	B1-UC	CR	Cr	Fe	
					Oil	135.0	4.0	4.35	E-BC16	SR	GN	GN	
<b>6M70</b>	12,882	Aero Star Super Great	<b>SDM31115ZZ</b>	6	1st	135.0	3.306	4.65	BF-K1	SR	Cr	Fe	ME995857 ME995855 (cyl)
					2nd	135.0	2.5	4.7	T1-IB	SR	GN	GN	
					Oil	135.0	4.0	4.35	E-BC16	SR	GN	GN	
<b>S6B</b>		For Industrial Machine	<b>YDM30106ZZ</b>	1	1st	135.0	4.0	5.0	BF-K2	HB	Cr	Fe	36217-11010
					2nd	135.0	3.0	5.5	T1-IC	CR	Cr	Fe	
					Oil	135.0	6.0	5.5	E-BC3	CR	Cr	Fe	
<b>S6B3</b>		For Industrial Machine	<b>SDM31180ZZ</b>	1	1st	135.0	4.0	5.05	BF-K1	HB	Cr	Fe	
					2nd	135.0	3.1	5.5	T1-K3	CR	Cr	Fe	
					Oil	135.0	4.0	4.8	E-BC16	SR	Cr	Fe	
<b>8DC9</b>	16,031	Aero Bus	<b>TCC-B-0009</b>	V8	1st	135.0	4.0		BF-K2	HB	Cr	Fe	ME062090
					2nd	135.0	3.0		T1-IC	CR	Cr	Fe	
					3rd	135.0	3.0		B1-TUC	CR	Fe	Fe	
					Oil	135.0	6.0		E-BC3	CR	Cr	Fe	



Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
8DC10	16,752	The Great Aero Bus MS7 MS8	SDM31134ZZ	V8	1st	138.0	3.306	5.5	BF-K1	HB	Cr	Fe	ME065717 ME999510
					2nd	138.0	3.0	5.5	T1-IC	CR	Cr	Fe	
					3rd	138.0	3.0	5.5	B1-TUC	CR	Cr	Fe	
					Oil	138.0	6.0	5.5	E-BC16	CR	Cr	Fe	
			SDM31139ZZ	V8	1st	138.0	3.306	5.5	BF-K1	HB	Cr	Fe	ME090582 ME997039
					2nd	138.0	3.0	5.5	T1-IC	CR	Cr	Fe	
					3rd	138.0	3.0	5.5	B1-TUC	CR	Cr	Fe	
					Oil	138.0	4.0	4.35	E-BC16	SR	GN	GN	
8DC11	17,737	Aero Bus MS7 MS8 Super Great Truck	SDM31128ZZ	V8	1st	142.0	3.306	5.6	BF-K1	HB	Cr	Fe	30617-50111 ME090588
					2nd	142.0	3.0	5.7	T1-IC	CR	Cr	Fe	
					3rd	142.0	3.0	5.7	B1-TUC	CR	Cr	Fe	
					Oil	142.0	4.0	4.15	E-BC16	SR	Cr	Fe	
			SDM31165ZZ	V8	1st	142.0	3.306	5.6	BF-K1	HB	Cr	Fe	ME065607
					2nd	142.0	3.0	5.7	T1-IC	CR	Cr	Fe	
					3rd	142.0	3.0	5.7	B1-TUC	CR	Cr	Fe	
					Oil	142.0	5.0	5.3	E-BC16	CR	Cr	Fe	
S8A S12A		For Industrial Machine	TCC-M-0161	1	1st	145.0	4.5		BF-K2	HB	Cr	Fe	32517-34010
					2nd	145.0	3.0		T1-K2	CR	Cr	Fe	
					Oil	145.0	6.0		E-BC3	CR	Cr	Fe	
8M20	20,089	The Great Aero Queen	SDM31138ZX	V8	1st	146.0	3.306	4.7	BF-K1	SR	GN	GN	ME996163
					2nd	146.0	3.0	5.1	T1	SR	GN	GN	
					3rd	146.0	3.0	5.1	T1	SR	GN	GN	
					Oil	146.0	4.0	4.4	E-BC16	SR	GN	GN	
S6A3		For Industrial Machine	YDM30120ZZ	1	1st	150.0	3.0	4.7	BF-K2	SR	GN	GN	35A17-01010
					2nd	150.0	2.5	5.5	T1-K2	CR	Cr	Fe	
					Oil	150.0	5.0	4.9	E-BC16	SR	Cr	Fe	
8M21	21,205	Aero King Aero Queen The Great Super Great	SDM31179ZZ	V8	1st	150.0	3.306	5.5	BF-K1	SR	GN	GN	ME996167
					2nd	150.0	3.0	5.95	T1-IC	HB	Cr	Fe	
					3rd	150.0	3.0	5.8	B1-TUC	HB	Cr	Fe	
					Oil	150.0	4.0	4.65	E-BC16	SR	Cr	Fe	

## ● Gasoline-engine Automobiles ● ガソリン車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>R06A</b>	658	Moco NT100 NV100	<b>TCC-N-0701</b>	3	1st	64.0	1.0		BF-IB	SR	GN	GN	12140-55S00
					2nd	64.0	1.0		TUC	SR	Fe	Fe	
					Oil	64.0	2.0		NIFF-H	SR	GN	GN	
<b>MA10 MA10ET</b>	987	March	<b>SWN30051ZZ</b> (STD)	4	1st	68.0	1.5	2.5	BF	SR	Cr	Fe	12033-01B05
					2nd	68.0	1.5	3.1	T1	CR	Fe	Fe	12033-01B10
					Oil	68.0	2.8	3.0	NIFF-S	SR	Cr	Fe	12033-01B11
			<b>SWN30076ZZ</b> (O/S0.2)	4	1st	68.2	1.5	2.5	BF	SR	Cr	Fe	12035-01B10
					2nd	68.2	1.5	3.1	T1	CR	Fe	Fe	
					Oil	68.2	2.8	3.0	NIFF-S	SR	Cr	Fe	
<b>CR10DE CR12DE</b>	997 1,240	March	<b>SWN30135ZZ</b> (STD)	4	1st	71.0	1.2	2.45	BF	SR	Cr	Fe	12033-AX001
					2nd	71.0	1.2	2.7	T1	CR	Fe	Fe	
					Oil	71.0	2.0	2.2	NIFF-H	SR	Cr	Fe	
			<b>SWN30136ZZ</b> (O/S0.2)	4	1st	71.2	1.2	2.45	BF	SR	Cr	Fe	12035-AX000
					2nd	71.2	1.2	2.7	T1	CR	Fe	Fe	
					Oil	71.2	2.0	2.2	NIFF-H	SR	Cr	Fe	
<b>CG10DE CG13DE</b>	997 1,274	March	<b>SWN30110ZZ</b> (STD)	4	1st	71.0	1.2	2.45	BF	SR	Cr	Fe	12033-41B01
					2nd	71.0	1.5	3.1	T1	CR	Fe	Fe	
					Oil	71.0	3.0		NIFF-H	SR	GN	GN	
			<b>SWN30112ZZ</b> (O/S0.2)	4	1st	71.2	1.2	2.45	BF	SR	Cr	Fe	12035-41B01
					2nd	71.2	1.5	3.1	T1	CR	Fe	Fe	
					Oil	71.2	3.0	2.85	NIFF-S	SR	Cr	Fe	
<b>MA12S QG13DE</b>	1,235	March Micra	<b>SWN30074ZZ</b> (STD)	4	1st	71.0	1.5	2.3	BF	SR	GN	GN	12033-05B10
					2nd	71.0	1.5	3.25	T1	CR	Fe	Fe	12033-05B11
					Oil	71.0	2.8	2.8	NIFF-S	SR	GN	GN	12033-4M410
			<b>SWN30087ZZ</b> (O/S0.2)	4	1st	71.2	1.5	2.3	BF	SR	GN	GN	12035-05B10
					2nd	71.2	1.5	3.25	T1	CR	Fe	Fe	
					Oil	71.2	2.8	2.8	NIFF-S	SR	GN	GN	
<b>GA13DE GA13DS</b>	1,295	Sentra Sunny	<b>SWN30204ZZ</b>	4	1st	71.0	1.5	3.15	BF	HB	Cr	Fe	12033-50Y00
					2nd	71.0	1.5	3.1	T1	CR	Fe	Fe	
					Oil	71.0	2.8	2.8	NIFF-S	SR	GN	GN	
<b>CGA3DE</b>	1,348	Cube March Micra	<b>SWN30128ZZ</b>	4	1st	72.0	1.2	2.65	BF	SR	Cr	Fe	12033-2U800
					2nd	72.0	1.2	3.1	T1	CR	Fe	Fe	
					Oil	72.0	2.5	2.55	NIFF-S	SR	Cr	Fe	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>J13</b>	1,299	Bluebird 1000 1200	<b>SWN30026ZZ</b>	4	1st	73.0	2.0	3.0	T1	CR	Cr	Fe	12033-A6200
<b>A10</b>	988	1300 Sunny (100Y)			2nd	73.0	2.0	3.0	T1	CR	Fe	Fe	12033-H6200
					Oil	73.0	4.0	3.0	NIFF-S	SR	Cr	Fe	12033-B3040 12033-H6211
<b>A12</b>	1,171	Pulser (100A) Cherry Vanette (C20) Sunny (120Y) Pulser (120A) Cherry 1200 Pick UP											
<b>E10</b>	988	Sunny P130 VP130 WP13D	<b>SWN30095ZZ</b>	4	1st	73.0	1.5	3.0	BF	HB	Cr	Fe	12033-41M01
					2nd	73.0	1.5	3.1	TUC	CR	Fe	Fe	12033-41M02
					Oil	73.0	4.0	3.0	NIFF-S	SR	Cr	Fe	
<b>CR14DE</b>	1,386	Cube	<b>SWN30137ZZ</b> (STD)	4	1st	73.0	1.2	2.25	BF	SR	Cr	Fe	12033-AX201
					2nd	73.0	1.2	2.8	T1	CR	Fe	Fe	
					Oil	73.0	2.0	2.2	NIFF-H	SR	Cr	Fe	
			<b>SWN30138ZZ</b> (O/S0.2)	4	1st	73.2	1.2	2.25	BF	SR	Cr	Fe	12035-AX200
				2nd	73.2	1.2	2.8	T1	CR	Fe	Fe	12035-AX201	
				Oil	73.2	2.0	2.2	NIFF-H	SR	Cr	Fe	Fe	
<b>GA14</b>	1,392	AD Van R-VY10 VFY10	<b>SWN30103ZZ</b>	4	1st	73.6	1.5	2.7	BF	SR	GN	GN	12033-87A10
					2nd	73.6	1.5	3.1	T1	CR	Cr	Fe	12033-87A11
					Oil	73.6	2.8	2.8	NIFF-S	SR	GN	GN	12033-53Y00
<b>QG15DE</b>	1,497	Wingroad	<b>SWN30172ZZ</b>	4	1st	73.6	1.2	2.45	BF	SR	Cr	Fe	12033-5M370
					2nd	73.6	1.2	3.2	T1	CR	Fe	Fe	
					Oil	73.6	2.5	2.55	NIFF-H	SR	Cr	Fe	
<b>A12A</b>	1,237	Sunny (120Y) B310 Pulser (120A)	<b>SWN30073ZZ</b>	4	1st	75.0	2.0	3.2	T1	HB	Cr	Fe	12033-H8500
					2nd	75.0	2.0	3.2	T1	CR	Fe	Fe	
					Oil	75.0	4.0	3.05	NIFF-S	SR	Cr	Fe	
<b>A14</b>	1,397	Sunny (140Y) Pulser (140A) Violet (140A) Vanetto (C20)	<b>SWN30045ZX</b>	4	1st	76.0	2.0	2.85	BF	SR	Cr	Fe	12033-H7200
					2nd	76.0	2.0	3.4	T1	CR	Fe	Fe	12033-H8660
					Oil	76.0	4.0	3.25	NIFF-S	SR	Cr	Fe	12033-H8900 12033-H9910
<b>A14(NEW)</b>	1,397	Vanette (C20) B210 B310 Sunny	<b>SWN30052ZZ</b>	4	1st	76.0	1.2	3.05	BF	SR	Cr	Fe	12033-H7680
					2nd	76.0	2.0	3.4	TUC	CR	Fe	Fe	12033-H9800
					Oil	76.0	4.0	3.25	NIFF-S	SR	Cr	Fe	12033-H9810 12033-H9915 12033-H9918
<b>A15</b>	1,487	Pulser											

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
<b>E13</b>	1,270	Sunny	<b>SWN30057ZY</b>	4	1st	76.0	1.5	2.65	BF	SR	Cr	Fe	12033-01M01
		Pulser			2nd	76.0	1.5	3.4	T1	CR	Fe	Fe	12033-01M02
		Laurel Spirit			Oil	76.0	4.0	3.0	NIFF-S	SR	Cr	Fe	12033-01M03
<b>E15</b>	1,487	Langley	<b>SWN30097ZY</b>	4	1st	76.0	1.5	2.65	BF	SR	Cr	Fe	12033-01M10
		California AD Van			2nd	76.0	1.5	3.2	T1	CR	Fe	Fe	12033-01M12
<b>GA16</b>	1,596	Sunny	<b>SWN30104ZZ</b>	4	1st	76.0	1.5	3.3	BF	HB	Cr	Fe	12033-94M00
		Pulser			2nd	76.0	1.5	3.2	T1	CR	Fe	Fe	12033-94M01
		Primera			Oil	76.0	2.8	2.8	NIFF-H	SR	GN	GN	12033-94M02
<b>GA16DE</b>	1,596	Sunny	<b>SWN30194ZZ</b>	4	1st	76.0	1.5	2.7	BF	SR	GN	GN	13141-43900-S0
		Pulser			2nd	76.0	1.5	3.1	T1	CR	Cr	Fe	
		Primera			Oil	76.0	2.8	2.55	NIFF-H	SR	GN	GN	
<b>QG16DE</b>	1,596	SM3	<b>TCC-P-0740</b>	4	1st	76.0	1.2	2.7	BF	SR	GN	GN	12033-7J910
		SM3CE			2nd	76.0	1.2	3.1	T1	CR	Fe	Fe	
		Sunny			Oil	76.0	2.5	2.5	NIFF-H	SR	GN	GN	
<b>VQ20</b>	1,995	Cefiro	<b>SWN30130ZZ</b>	V6	1st	76.0	1.2	2.7	BF-IB	SR	Cr	Fe	12033-31U00
		Maxima			2nd	76.0	1.2	3.3	T1	CR	Fe	Fe	12033-31U01
					Oil	76.0	2.5	2.8	NIFF-S	SR	Cr	Fe	
<b>J15</b>	1,483	Datsun	<b>SWN30033ZX</b>	4	1st	77.95	2.0	2.85	BF	SR	Cr	Fe	12033-01W60
		Caravan			2nd	77.95	2.0	3.7	T1	CR	Fe	Fe	12033-01W61
		Cabster			Oil	77.95	4.0	3.0	NIFF-S	SR	Cr	Fe	12033-01W62
<b>J16</b>	1,567	Truck	<b>SWN30037ZZ</b>	6	1st	77.95	2.0	3.3	T1	HB	Cr	Fe	12033-E3030
		N521 UN521			2nd	77.95	2.0	3.7	T1	CR	Fe	Fe	12033-V0300
		HT20			Oil	77.95	4.0	3.0	NIFF-S	SR	Cr	Fe	12033-V0310
<b>L20ET</b>	1,988	Gloria Deluxe	<b>SWN30055ZY</b>	4	1st	77.95	1.5	2.9	BF	SR	Cr	Fe	12033-06E00
		Stanza			2nd	77.95	1.5	3.4	T1	CR	Fe	Fe	12033-D0120
		Skyline			Oil	77.95	4.0	3.0	NIFF-S	SR	Cr	Fe	12033-D0400
<b>CA16S</b>	1,598	Bluebird	<b>SWN30068ZZ</b>	6	1st	77.95	1.5	3.3	BF	HB	Cr	Fe	12033-01L00
		Stanza			2nd	77.95	2.0	3.7	TUC	CR	Fe	Fe	
		Auster			Oil	77.95	4.0	3.0	NIFF-S	SR	Cr	Fe	
<b>L20A</b>	1,988	Gloria Van	<b>SWN30068ZZ</b>	6	1st	77.95	1.5	3.3	BF	HB	Cr	Fe	12033-01L00
		Cedric			2nd	77.95	2.0	3.7	TUC	CR	Fe	Fe	
		Bluebird			Oil	77.95	4.0	3.0	NIFF-S	SR	Cr	Fe	
<b>L20A</b>	1,988	Skyline 2000GT	<b>SWN30068ZZ</b>	6	1st	77.95	1.5	3.3	BF	HB	Cr	Fe	12033-01L00
		Fairlady Z			2nd	77.95	2.0	3.7	TUC	CR	Fe	Fe	
					Oil	77.95	4.0	3.0	NIFF-S	SR	Cr	Fe	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
VG20E VG20ET VG20DET	1,998	Cedric Gloria Laurel Fairlady Z	SWN30092ZY	V6	1st	77.95	1.5	2.9	BF	SR	Cr	Fe	12033-12P00
					2nd	77.95	1.5	3.4	T1	CR	Fe	Fe	12033-V5310
					Oil	77.95	2.8	3.0	NIFF-S	SR	Cr	Fe	
CA16 CA16DE	1,598	Stanza Auster Bluebird	SWN30111ZZ	4	1st	77.95	1.5	2.9	BF-IB	SR	Cr	Fe	12033-55M00
					2nd	77.95	1.5	3.4	T1	CR	Fe	Fe	
					Oil	77.95	2.8	3.0	NIFF-S	SR	Cr	Fe	
L20	1,998	Cedric Bluebird Gloria Skyline2000GT Laurel Fairlady Z	SWN30049ZZ	6	1st	77.95	2.0	3.6	T1	CR	Cr	Fe	12033-73401
					2nd	77.95	2.5	3.7	T1	CR	Fe	Fe	12033-73402
					Oil	77.95	4.0	3.0	NIFF-S	SR	Cr	Fe	
		TCC-R-0820	6	1st	77.95	1.2		BF	SR	GN	GN	12033-Y7000	
				2nd	77.95	2.0		T1	CR	Fe	Fe		
Oil	77.95	4.0		NIFF-S	SR	GN	GN						
RB20E	1,998	Skyline Laurel	SWN30173ZZ	6	1st	77.95	1.5	2.7	BF	SR	GN	GN	12033-65L00
					2nd	77.95	1.5	3.4	T1	CR	Cr	Fe	
					Oil	77.95	2.8	2.85	NIFF-S	SR	GN	GN	
HR12DE	1,198	March	SWN30197ZZ	3	1st	78.0	1.2	2.45	BF-IB	SR	Cr	Fe	12033-1HC0C
					2nd	78.0	1.2	2.7	T1	CR	Fe	Fe	
					Oil	78.0	2.0	2.3	NIFF-H	SR	Cr	Fe	
HR16DE	1,597	Vanette Wagon March Note Tida Kicks	SWN30196ZZ	4	1st	78.0	1.2	2.45	BF-IB	SR	Cr	Fe	12033-EE50A
					2nd	78.0	1.2	2.7	T1	CR	Fe	Fe	12033-EE000
					Oil	78.0	2.0	2.3	NIFF-H	SR	Cr	Fe	
		SWN30206ZZ	4	1st	78.0	1.2	2.5	BF-IB	SR	GN	GN	12033-5RB0A	
				2nd	78.0	1.0	2.5	TUC	SR	Fe	Fe		
				Oil	78.0	2.0	2.2	NIFF-H	SR	GN	GN		
MR16DDT	1,618	Juke 16GT	SWN30186ZZ	4	1st	79.7	1.2	2.5	BF-IB	SR	GN	GN	12033-1KC0A
					2nd	79.7	1.0	2.7	TUC	SR	Fe	Fe	12033-3RC0B
MRA8DE	1,798	Sentra			Oil	79.7	2.0	2.4	NIFF-H	SR	GN	GN	
QG18DE	1,768	Wingroad Bluebird Bluebird Sylphy Primera	SWN30127ZZ	4	1st	80.0	1.5	2.87	BF	SR	Cr	Fe	12033-WD310
					2nd	80.0	1.5	3.4	T1	CR	Cr	Fe	
					Oil	80.0	2.8	2.85	NIFF-S	SR	Cr	Fe	
		SWN30142ZY	4	1st	80.0	1.2	2.85	BF	SR	Cr	Fe	12033-AU300	
				2nd	80.0	1.2	3.4	T1	CR	Fe	Fe	12033-5M010	
Oil	80.0	2.5	2.6	NIFF-S	SR	Cr	Fe	12033-5M020					
J18	1,800	Fork Lift Truck	SWN30099ZZ	4	1st	80.5	1.5	3.25	BF	SR	Cr	Fe	12033-N7900
					2nd	80.5	2.0	3.7	T1	CR	Fe	Fe	
					Oil	80.5	4.0	3.25	NIFF-S	SR	Cr	Fe	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference		
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower			
<b>NA16S</b>	1,627	Datsun Truck Atlas	<b>SWN30199ZZ</b>	4	1st	81.5	1.5	3.1	BF	SR	GN	GN	12033-73P00		
					2nd	81.5	1.5	3.6	T1	CR	Cr	Fe			
					Oil	81.5	4.0	3.05	NIFF-S	SR	GN	GN			
<b>SR18</b>	1,838	Bluebird Presta Sunny Primera	<b>SWN30105ZZ (STD)</b>	4	1st	82.5	1.5	2.9	BF-IB	SR	GN	GN	12033-0E101		
					2nd	82.5	1.5	3.5	T1	CR	Cr	Fe			
					Oil	82.5	3.0	2.85	NIFF-S	SR	GN	GN			
					<b>SWN30106ZZ (O/S0.2)</b>	4	1st	82.7	1.5	2.9	BF-IB	SR	GN	GN	12035-0E101
							2nd	82.7	1.5	3.5	T1	CR	Cr	Fe	
							Oil	82.7	3.0	2.85	NIFF-S	SR	GN	GN	
<b>L13</b>	1,296	Bluebird 1300 1400 P510A P510P	<b>SWN30014ZZ</b>	4	1st	83.0	2.0	3.6	T1	CR	Cr	Fe	12033-06000 12033-21000 12033-23000		
					2nd	83.0	2.0	3.8	T1	CR	Fe	Fe			
					Oil	83.0	4.0	3.75	NIFF-S	SR	Cr	Fe			
<b>L14</b>	1,428	P510T P510TK KT510 WP510 Violet											12033-A0600 12033-A3500 12033-A3501 12033-W0700 12033-W7110		
<b>L16</b>	1,595	J710 VJ710 Sunny PB210													
<b>L24</b>	2,395	Bluebird Cedric (240C) Skyline (240K) Fairlady Z (240Z) Fairlady Z (260Z) Laurel (260L)	<b>SWN30034ZZ</b>	6	1st	83.0	2.0	3.8	T1	CR	Fe	Fe	12033-E3100 12033-E3110 12033-W0810 12033-A8620		
					2nd	83.0	2.0	3.8	T1	CR	Fe	Fe			
					Oil	83.0	4.0	3.9	NIFF-S	SR	Cr	Fe			
<b>L26</b>	2,565														
<b>CA18E CA18S</b>	1,809	Laurel Skyline Silvia Gazelle Stanza Auster Prairie	<b>SWN30056ZZ</b>	4	1st	83.0	1.5	2.85	BF	SR	Cr	Fe	12033-01E00 12033-01E10 12033-01F00 12033-D0210 12033-D0500		
					2nd	83.0	1.5	3.6	T1	CR	Cr	Fe			
					Oil	83.0	4.0	3.05	NIFF-S	SR	Cr	Fe			
<b>CA18P (LPG)</b>	1,809	Bluebird Skyline Stanza	<b>SWN30083ZZ</b>	4	1st	83.0	2.0	2.85	BF-IB	SR	Cr	Fe	12033-49L00		
					2nd	83.0	1.5	3.6	T1	CR	Cr	Fe			
					Oil	83.0	2.8	3.0	NIFF-S	SR	Cr	Fe			
<b>CA18DET CA18ET</b>	1,809	Gazelle Turbo Silvia Turbo Bluebird Turbo	<b>SWN30090ZZ</b>	4	1st	83.0	1.5	2.9	BF	SR	GN	GN	12033-44F00 12033-D4210 12033-17F00 12033-18F00 12033-18F10		
					2nd	83.0	1.5	3.6	T1	CR	Cr	Fe			
					Oil	83.0	2.8	2.8	NIFF-S	SR	GN	GN			
<b>MR18DE</b>	1,797	Tiida Lafesta	<b>SWN30154ZZ</b>	4	1st	84.0	1.2	2.65	BF	SR	Cr	Fe	12033-EN200 12033-CK80A 12033-EN20A		
					2nd	84.0	1.2	3.0	TUC	CR	Fe	Fe			
					Oil	84.0	2.0	2.55	NIFF-H	SR	Cr	Fe			
<b>MR20DE</b>	1,999	Cube Versa Sentra													



Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>MR20DE MR-FFV</b>	1,999	Tiida	<b>SWN30166ZZ</b>	4	1st	84.0	1.2	2.6	BF	SR	GN	GN	12033-8W80A
		Lafesta			2nd	84.0	1.2	3.0	TUC	CR	Cr	Fe	
		Cube Versa Sentra			Oil	84.0	2.0	2.55	NIFF-H	SR	GN	GN	
<b>MR20DD</b>	1,999	Serena	<b>SWN30188ZZ</b>	4	1st	84.0	1.2	2.7	BF-IB	SR	GN	GN	12033-1VA0A
				2nd	84.0	1.2	3.0	TUC	CR	Fe	Fe		
				Oil	84.0	2.0	2.5	NIFF-H	SR	GN	GN		
<b>CA20A</b>	1,973	Bluebird	<b>SWN30053ZZ</b>	4	1st	84.5	1.5	3.05	BF	SR	Cr	Fe	12033-04E00
		Cherry			2nd	84.5	1.5	3.7	T1	CR	Cr	Fe	12033-04E10
		Vanette			Oil	84.5	4.0	3.05	NIFF-S	SR	Cr	Fe	12033-D1700 12033-D2000
<b>CA20P (LPG)</b>	1,973	Bluebird	<b>SWN30075ZZ</b>	4	1st	84.5	2.0	2.85	BF-IB	SR	Cr	Fe	12033-V5600
		Stanza			2nd	84.5	1.5	3.7	T1	CR	Cr	Fe	
					Oil	84.5	2.8	3.0	NIFF-S	SR	Cr	Fe	
<b>CA20E</b>	1,973	Bluebird	<b>SWN30121ZZ</b>	4	1st	84.5	1.5	3.1	BF	SR	GN	GN	12033-61E10
					2nd	84.5	1.5	3.7	T1	CR	Cr	Fe	
					Oil	84.5	2.8	2.85	NIFF-S	SR	GN	GN	
<b>G16</b>	1,593	Laurel 1800	<b>SWN30020ZX</b>	4	1st	85.0	2.0	3.05	BF	SR	Cr	Fe	12033-78250
<b>G18</b>	1,815	C30 C30A			2nd	85.0	2.0	4.2	T1	CR	Fe	Fe	12033-78251
		C30T			Oil	85.0	4.0	3.25	NIFF-S	SR	Cr	Fe	12033-A8701 12033-A8702
<b>L18</b>	1,770	KH510 P610 U1800SSS Skyline CP10 110 KPC10 110											
<b>Z18</b>	1,770	Skyline Laurel	<b>SWN30048ZZ</b>	4	1st	85.0	2.0	3.9	T1	CR	Cr	Fe	12033-U6001
<b>L20B</b>	1,952	Cedric			2nd	85.0	2.0	4.2	T1	CR	Fe	Fe	12033-U6002
		Silvia Gazelle Stanza Bluebird Auster			Oil	85.0	4.0	3.25	NIFF-S	SR	Cr	Fe	12033-W0805 12033-W0815 12033-N9700 12033-W1600
<b>Z20 Z20E Z20S</b>	1,952	Laurel	<b>SWN30084ZZ</b>	4	1st	85.0	2.0	2.85	BF-IB	SR	Cr	Fe	12033-82W01
		Caravan			2nd	85.0	1.5	3.7	T1	CR	Cr	Fe	
		Vanette Bluebird			Oil	85.0	4.0	3.15	NIFF-S	SR	Cr	Fe	
		Silvia Skyline	<b>SWN30086ZY</b>	4	1st	85.0	1.5	3.05	BF	SR	Cr	Fe	12033-24G00
					2nd	85.0	1.5	3.7	T1	CR	Fe	Fe	12033-N8510
					Oil	85.0	4.0	3.15	NIFF-S	SR	Cr	Fe	12033-N8520

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
<b>P</b>	3,956	Truck 680 D680 G680 T680 S680 DG680 681 D681 G81 D681 G681 S681 TG690	<b>SWN30022ZZ</b>	6	1st	85.69	2.5	3.7	BF	CR	Cr	Fe	12033-58003
					2nd	85.69	2.5	3.7	T1	CR	Fe	Fe	12033-58004
					Oil	85.69	4.76	4.0	NIFF-S	SR	Cr	Fe	12033-58005
													12033-C6000 12033-C6011
<b>Z24S</b>	2,389	Terrano WD21	<b>SWN30159ZZ</b>	4	1st	86.0	1.5	3.1	BF-IB	SR	GN	GN	12033-3T600
					2nd	86.0	1.5	3.65	T1	CR	Cr	Fe	12033-0H600
					Oil	86.0	4.0	2.8	NIFF-S	SR	GN	GN	
<b>L28</b>	2,753	Cedric (280C) Fairlady Z (280Z) Laurel (280L) Leopard	<b>SWN30047ZZ</b>	6	1st	86.0	2.0	3.9	T1	CR	Cr	Fe	12033-M4210
					2nd	86.0	2.0	4.05	T1	CR	Fe	Fe	12033-N4220
					Oil	86.0	4.0	3.25	NIFF-S	SR	Cr	Fe	12033-P8360 12033-P3870
<b>L28E</b>	2,753	Leopard Fairlady Z Laurel	<b>SWN30066ZZ</b>	6	1st	86.0	1.5	3.6	BF	HB	Cr	Fe	12033-P8600
					2nd	86.0	2.0	4.05	TUC	CR	Fe	Fe	12033-P8610
					Oil	86.0	4.0	3.25	NIFF-S	SR	Cr	Fe	12033-P7000 12033-P7910
<b>RB30</b>	2,962	Skyline Patrol	<b>SWN30091ZZ</b>	6	1st	86.0	1.5	3.1	BF-IB	SR	GN	GN	12033-67S10
					2nd	86.0	1.5	3.65	T1	CR	Cr	Fe	
					Oil	86.0	2.8	2.85	NIFF-S	SR	GN	GN	
<b>NA20S</b>	1,998	Datsun Truck Atlas Caravan Homy	<b>SWN30202ZZ</b>	4	1st	86.0	1.5	3.05	BF-IB	SR	Cr	Fe	12033-85G00
					2nd	86.0	1.5	3.65	T1	CR	Cr	Fe	12033-85G10
					Oil	86.0	4.0	3.25	NIFF-S	SR	Cr	Fe	
<b>SR20DE</b>	1,998	Bluebird Silvia 180SX Primera Serena	<b>SWN30102ZZ</b> (STD)	4	1st	86.0	1.5	3.05	BF-IB	SR	Cr	Fe	12033-60J20
					2nd	86.0	1.5	3.65	T1	CR	Cr	Fe	12033-60J22
					Oil	86.0	3.0	3.0	NIFF-S	SR	Cr	Fe	12033-60J62
			<b>SWN30109ZZ</b> (O/S0.2)	4	1st	86.2	1.5	3.1	BF-IB	SR	GN	GN	12035-60J20
					2nd	86.2	1.5	3.65	T1	CR	Cr	Fe	12035-60J22
					Oil	86.2	3.0	3.05	NIFF-S	SR	GN	GN	12035-60J62
			<b>SWN30123ZZ</b> (STD)	4	1st	86.0	1.2	3.1	BF	SR	GN	GN	12033-3J610
					2nd	86.0	1.2	3.7	T1	CR	Cr	Fe	12033-4M802
Oil	86.0	2.5	2.85	NIFF-S	SR	GN	GN						
<b>SWN30124ZZ</b> (O/S0.2)	4	1st	86.2	1.2	3.1	BF	SR	GN	GN	12035-3J600			
		2nd	86.2	1.2	3.7	T1	CR	Cr	Fe	12035-3J610			
		Oil	86.2	2.5	2.85	NIFF-S	SR	GN	GN				
<b>Z22E</b> <b>Z22S</b>	2,187	Datsun Truck Cabstar	<b>SWN30054ZZ</b>	4	1st	87.0	1.5	3.05	BF	SR	Cr	Fe	12033-06W10
					2nd	87.0	1.5	3.8	T1	CR	Cr	Fe	12033-06W20
					Oil	87.0	4.0	3.05	NIFF-S	SR	GN	GN	12033-D8500

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>VG30E</b> <b>VG30DE</b> <b>VG30DETT</b> <b>VE30DE</b>	2,960	Cedric Gloria Fairlady Z Maxima Leopard	<b>SWN30058ZZ</b>	V6	1st	87.0	1.5	3.1	BF	SR	GN	GN	12033-02P10
					2nd	87.0	1.5	3.8	T1	CR	Cr	Fe	12033-03P00
					Oil	87.0	2.8	3.0	NIFF-S	SR	GN	GN	12033-03P10 12033-21P10 12033-F6500 12033-F6510 12033-F6511 12033-96E01
<b>VG30i</b>		Datsun Truck	<b>SWN30093ZZ</b>	V6	1st	87.0	2.0	3.1	BF-IB	SR	GN	GN	12033-15G10
					2nd	87.0	1.5	3.8	T1	CR	Cr	Fe	12033-V8000
					Oil	87.0	2.8	3.1	NIFF-S	SR	Cr	Fe	12033-15V00
<b>H20</b>	1,982	Cedric 130 130V W130 Junior 41 Caball C142 DC142 Clipper Miler 444 D444 444A Gloria Van Bus GC240	<b>SWN30069ZZ</b>	4	1st	87.2	2.0	4.05	BF	CR	Cr	Fe	12033-R9000
					2nd	87.2	2.5	4.05	TUC	CR	Fe	Fe	12033-R9023
					Oil	87.2	4.0	3.8	NIFF-S	SR	Cr	Fe	12033-Y4460
<b>Z24</b>	2,389	Datsun Truck	<b>SWN30059ZZ</b>	4	1st	89.0	1.5	3.25	BF	SR	Cr	Fe	12033-10W00
					2nd	89.0	1.5	3.9	T1	CR	Cr	Fe	12033-30W10
					Oil	89.0	4.0	3.2	NIFF-S	SR	Cr	Fe	
<b>Z24i</b>			<b>SWN30085ZZ</b>	4	1st	89.0	2.0	3.05	BF-IB	SR	Cr	Fe	12033-13G10
					2nd	89.0	1.5	3.9	T1	CR	Fe	Fe	12033-83W00
					Oil	89.0	4.0	3.2	NIFF-S	SR	Cr	Fe	
<b>KA24E</b>	2,389	Largo	<b>SWN30096ZZ</b>	4	1st	89.0	1.5	3.27	BF-IB	SR	Cr	Fe	12033-53F01
					2nd	89.0	1.5	3.9	T1	CR	Cr	Fe	12033-70F00
					Oil	89.0	2.8	3.15	NIFF-S	SR	Cr	Fe	12033-86G01
<b>KA24DE</b>	2,389	Altima Frontier Pickup Xterra	<b>SWN30118ZZ</b>	4	1st	89.0	1.5	3.05	BF-IB	SR	Cr	Fe	12033-1E400
					2nd	89.0	1.5	3.9	T1	CR	Cr	Fe	
					Oil	89.0	2.8	3.15	NIFF-S	SR	Cr	Fe	
			<b>SWN30143ZZ</b>	4	1st	89.0	1.2	3.25	BF-IB	SR	Cr	Fe	12033-9E000
					2nd	89.0	1.2	3.8	T1	CR	Cr	Fe	
					Oil	89.0	2.5	2.85	NIFF-S	SR	Cr	Fe	
<b>SWN30143ZY</b>	4	1st	89.0	1.2	3.25	BF-IB	SR	Cr	Fe	12033-5V110			
		2nd	89.0	1.2	3.8	T1	CR	Fe	Fe				
		Oil	89.0	2.5	2.85	NIFF-H	SR	Cr	Fe				

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference		
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower			
QR25DE	2,488	X-Trail 25X Serena Teana	SWN30140ZZ (STD)	4	1st	89.0	1.2	3.1	BF-IB	SR	GN	GN	12033-9H500		
					2nd	89.0	1.2	3.8	T1	CR	Cr	Fe	12033-8H301		
					Oil	89.0	2.5	2.85	NIFF-S	SR	GN	GN			
				Elgrand Murano Altima	SWN30141ZZ (O/S0.2)	4	1st	89.2	1.2	3.1	BF-IB	SR	GN	GN	12035-9H500
							2nd	89.2	1.2	3.8	T1	CR	Cr	Fe	
							Oil	89.2	2.5	2.85	NIFF-S	SR	GN	GN	
				Caravan Rogue	SWN30189ZY (STD)	4	1st	89.0	1.2	2.9	BF-IB	SR	GN	GN	12033-ET80B
							2nd	89.0	1.2	3.8	T1	CR	Fe	Fe	12033-JA00B
							Oil	89.0	2.0	2.25	NIFF-H	SR	GN	GN	12033-JG30A 12033-3TA0A
					SWN30200ZY (O/S0.2)	4	1st	89.2	1.2	2.9	BF-IB	SR	GN	GN	
2nd	89.2						1.2	3.8	T1	CR	Fe	Fe			
Oil	89.2						2.0	2.25	NIFF-H	SR	GN	GN			
			SWN30192ZZ (STD)	4	1st	89.0	1.2	3.25	BF	SR	Cr	Fe	12033-EA000		
					2nd	89.0	1.2	3.8	TUC	CR	Fe	Fe	12033-EA00B		
					Oil	89.0	2.5	2.5	NIFF-H	SR	Cr	Fe			
QR20DE QR25DE	1,998 2,488	X-Trail Primera Liverty Serena Elgrand	TCC-R-0819	4	1st	89.0	1.2		BF	SR	GN	GN	12033-AE003		
					2nd	89.0	1.2		T1	SR	Fe	Fe			
					Oil	89.0	2.5		NIFF-H	SR	GN	GN			
KA24GN	2,388	240SX Prairie Bluebird Caravan	TCC-R-0821	4	1st	89.0	1.2		BF-IB	SR	GN	GN	12033-VJ260		
					2nd	89.0	1.2		T1	CR	Cr	Fe			
					Oil	89.0	2.5		NIFF-H	SR	GN	GN			
VG33	3,274	Elgrand Terrano	SWN30120ZZ	V6	1st	91.5	1.5	3.25	BF	SR	Cr	Fe	12033-0W000		
					2nd	91.5	1.5	4.0	T1	CR	Cr	Fe	12033-0W010		
					Oil	91.5	2.8	3.05	NIFF-S	SR	Cr	Fe			
Y44 Y40	4,414	President	SWN30078ZZ	V8	1st	92.0	2.0	3.1	BF	SR	GN	GN	12033-F2700		
					2nd	92.0	2.5	4.0	T1	CR	Cr	Fe	12033-F1100		
					Oil	92.0	4.0	3.3	NIFF-S	SR	Cr	Fe			
VQ30DE	2,987	Maxima Cedric Gloria	SWN30115ZZ (STD)	V6	1st	93.0	1.2	3.25	BF	SR	Cr	Fe	12033-38U01		
					2nd	93.0	1.2	4.0	T1	CR	Fe	Fe	12033-47U01		
					Oil	93.0	2.5	2.85	NIFF-S	SR	Cr	Fe	12033-2Y903 12033-AG301 12033-AG302 12033-47U03		
					SWN30119ZZ (O/S0.2)	V6	1st	93.2	1.2	3.3	BF-IB	SR	GN	GN	12035-AG301
							2nd	93.2	1.2	4.0	T1	CR	Cr	Fe	12035-47U03
							Oil	93.2	2.5	2.85	NIFF-S	SR	GN	GN	
VQ35DE	3,498	Elgrand Fuga Skyline Murano	SWN30131ZZ (STD)	V6	1st	95.5	1.2	3.45	BF	SR	Cr	Fe	12033-4W005		
					2nd	95.5	1.2	4.1	T1	CR	Fe	Fe	12033-8J100		
					Oil	95.5	2.5	2.75	NIFF-S	SR	Cr	Fe			
				Teana Maxima Stagea Quest Frontier NV1500	SWN30132ZZ (O/S0.2)	V6	1st	95.7	1.2	3.45	BF	SR	Cr	Fe	12035-4W003
							2nd	95.7	1.2	4.1	T1	CR	Fe	Fe	12035-4W004
							Oil	95.7	2.5	2.75	NIFF-S	SR	Cr	Fe	12035-4W005 12035-4W007 12035-5W300
VQ40DE	3,954	NV2500 NV3500	SWN30191ZZ	V6	1st	95.5	1.2	3.1	BF	SR	GN	GN	12033-JA10D		
					2nd	95.5	1.2	4.1	TUC	CR	Fe	Fe	12033-JP00A		
					Oil	95.5	2.0	2.6	NIFF-H	SR	GN	GN			

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
VQ35HR	3,498	Fairlady Z Skyline Fuga	SWN30162ZZ (STD)	V6	1st	95.5	1.2	3.1	BF	SR	GN	GN	12033-JK20A
					2nd	95.5	1.2	3.7	TUC	CR	Fe	Fe	12033-JK20C
					Oil	95.5	2.0	2.6	NIFF-H	SR	GN	GN	
VQ37VHR	3,696	Fairlady Z Skyline Fuga	SWN30163ZZ (O/S0.2)	V6	1st	95.7	1.2	3.1	BF-IB	SR	GN	GN	12035-JK20A
					2nd	95.7	1.2	3.7	TUC	CR	Fe	Fe	12035-JK20C
					Oil	95.7	2.0	2.5	NIFF-H	SR	GN	GN	
VK50VE	5,026	Infiniti	SWN30184ZZ (STD)	V8	1st	95.5	1.2	3.15	BF-IB	SR	GN	GN	12033-1CA0A
					2nd	95.5	1.2	3.7	TUC	CR	Fe	Fe	
					Oil	95.5	2.0	2.5	NIFF-H	SR	GN	GN	
			SWN30185ZZ (O/S0.2)	V8	1st	95.7	1.2	3.15	BF-IB	SR	GN	GN	12035-1CA0A
					2nd	95.7	1.2	3.7	TUC	CR	Fe	Fe	
					Oil	95.7	2.0	2.5	NIFF-H	SR	GN	GN	
TB42 TB42E	4,169	Safari	SWN30122ZZ	6	1st	96.0	2.0	3.3	BF	SR	GN	GN	12033-03J00
					2nd	96.0	2.0	4.2	T1	CR	Cr	Fe	
					Oil	96.0	4.0	3.25	NIFF-S	SR	GN	GN	
VK56DE (OLD)	5,552	Infiniti Armada	SWN30149ZZ (STD)	V8	1st	98.0	1.5	3.45	BF	SR	Cr	Fe	12033-7S001
					2nd	98.0	1.5	4.3	TUC	CR	Fe	Fe	
					Oil	98.0	2.5	2.6	NIFF-S	SR	Cr	Fe	
			SWN30161ZZ (O/S0.2)	V8	1st	98.2	1.5	3.45	BF	SR	Cr	Fe	12035-7S002
					2nd	98.2	1.5	4.3	TUC	CR	Fe	Fe	
					Oil	98.2	2.5	2.6	NIFF-S	SR	Cr	Fe	
VK56DE (NEW)	5,552	Infiniti Patrol	SWN30160ZZ (STD)	V8	1st	98.0	1.5	3.3	BF	SR	GN	GN	12033-ZE00A
					2nd	98.0	1.5	4.3	TUC	CR	Fe	Fe	
					Oil	98.0	2.5	2.65	NIFF-S	SR	GN	GN	
			SWN30161ZY (O/S0.2)	V8	1st	98.2	1.5	3.3	BF	SR	GN	GN	12035-ZE00A
					2nd	98.2	1.5	4.3	TUC	CR	Fe	Fe	
					Oil	98.2	2.5	2.6	NIFF-S	SR	GN	GN	
VK56VD	5,552	Infiniti Patrol	SWN30177ZZ (STD)	V8	1st	98.0	1.2	3.1	BF-IB	SR	GN	GN	12033-1MC0B
					2nd	98.0	1.2	4.3	TUC	CR	Fe	Fe	12033-EZ30D
					Oil	98.0	2.5	2.45	NIFF-H	SR	GN	GN	
			SWN30183ZZ (O/S0.2)	V8	1st	98.2	1.2	3.1	BF-IB	SR	GN	GN	12035-1MC0B
					2nd	98.2	1.2	4.3	TUC	CR	Fe	Fe	
					Oil	98.2	2.5	2.45	NIFF-H	SR	GN	GN	
TB45E	4,478	Fork Lift Safari	SWN30181ZZ	6	1st	99.5	2.0	3.5	BF	SR	GN	GN	12033-VB000
					2nd	99.5	1.5	4.2	T1	CR	Cr	Fe	
					Oil	99.5	4.0	3.1	NIFF-S	SR	GN	GN	

## ● Diesel-engine Automobiles ● ディーゼル車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>CD17</b>	1,680	Sunny	<b>SDN30088ZX</b>	4	1st	80.0	1.75	2.85	BF-IB	SR	Cr	Fe	12033-16A00
					2nd	80.0	2.0	3.3	T1-IC	CR	Cr	Fe	
					Oil	80.0	3.0	3.25	E-BC16	SR	GN	GN	
<b>LD28</b>	2,792	Cedric Gloria Skyline	<b>SDN30067ZZ</b>	6	1st	84.5	2.0	3.5	BF-IB	HB	Cr	Fe	12033-V0700
					2nd	84.5	2.0	3.5	T1-IC	CR	Fe	Fe	
					Oil	84.5	4.0	4.1	E-BC16	CR	Cr	Fe	
<b>CD20</b>	1,973	Datsun Truck Sunny Diesel	<b>SDN30133ZZ</b>	4	1st	84.5	2.0	3.1	BF-IB	SR	GN	GN	12033-57J00
					2nd	84.5	2.0	3.5	T1-IC	CR	Cr	Fe	
					Oil	84.5	3.0	3.25	E-BC16	SR	GN	GN	
<b>CD20T</b>	1,973	Avenir Serena Primera Vanette	<b>SDN30203ZZ</b>	4	1st	84.5	2.0	3.1	BF-K2	SR	GN	GN	12033-1C300
					2nd	84.5	2.0	3.5	T1-IC	CR	Cr	Fe	
					Oil	84.5	3.0	3.25	E-BC16	SR	GN	GN	
<b>LD20</b>	1,952	Bluebird	<b>SDN30098ZX</b>	4	1st	85.0	2.0	3.05	BF-IB	SR	Cr	Fe	12033-W1700
					2nd	85.0	2.0	3.5	T1-IC	CR	Fe	Fe	
					Oil	85.0	4.0	4.1	E-BC3	CR	Cr	Fe	
<b>RD28</b>	2,825	Crew Gloria Skyline	<b>SDN30144ZZ</b>	6	1st	85.0	2.0	3.1	BF	SR	GN	GN	12033-22J11
					2nd	85.0	2.0	3.5	T1-IC	CR	Cr	Fe	
					Oil	85.0	4.0	4.35	E-BC16	SR	GN	GN	
<b>YD22DD</b>	2,184	Sunny	<b>SDN30180ZZ</b>	4	1st	86.0	2.0	3.1	BF-K2	SR	GN	GN	12033-AW400
					2nd	86.0	2.0	3.6	T1-IC	CR	Fe	Fe	
					Oil	86.0	3.0	3.25	E-BC16	SR	GN	GN	
			<b>SDN30169ZZ</b>	4	1st	86.0	1.75	2.9	BF-K2	SR	GN	GN	12033-WD000
					2nd	86.0	1.5	3.05	T1-IB	SR	Cr	Fe	
					Oil	86.0	3.0	3.25	E-BC16	SR	GN	GN	
<b>LD23</b>	2,283	Serena	<b>SDN30145ZZ</b>	4	1st	87.0	2.0	3.5	BF-IC	HB	Cr	Fe	12033-9C625
					2nd	87.0	2.0	3.4	TUC	CR	Cr	Fe	
					Oil	87.0	3.0	3.3	E-BC16	CR	Cr	Fe	
<b>YD25DDTi</b>	2,488	Pathfinder Navara	<b>SDN30182ZZ</b>	4	1st	89.0	2.0	2.9	BF-K2	SR	GN	GN	12033-VK520
					2nd	89.0	2.0	3.5	T1-IC	CR	Cr	Fe	
					Oil	89.0	3.0	3.25	E-BC16	SR	GN	GN	
		Serena Bassara Presage	<b>SDN30182ZY</b>	4	1st	89.0	2.0	2.9	BF-K2	SR	GN	GN	12033-VK510 12033-EB30B 12033-5X00A
					2nd	89.0	2.0	3.6	T1-IB	CR	Fe	Fe	
					Oil	89.0	3.0	3.25	E-BC16	SR	GN	GN	
<b>TD25-2</b>	2,494	Truck	<b>SDN30146ZZ</b>	4	1st	92.9	2.5	3.45	BF	SR	Cr	Fe	12033-5T116
					2nd	92.9	2.0	4.0	T1-IC	CR	Cr	Fe	
					Oil	92.9	3.0	3.25	E-BC16	SR	GN	GN	



Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference					
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower						
<b>TD27T AD27T</b>	2,664	Truck Caravan	<b>SDN30147ZZ</b>	4	1st	96.0	2.5	3.5	BF-K2	SR	GN	GN	12033-37N10					
					2nd	96.0	2.0	4.0	T1-IC	CR	Cr	Fe						
					Oil	96.0	4.0	4.35	E-BC16	SR	GN	GN						
<b>BD30</b>	2,953	Cedric Atlas	<b>SDN30150ZX</b>	4	1st	96.0	2.5	3.65	BF	SR	Cr	Fe	12033-54T10					
					2nd	96.0	2.0	4.0	T1-IC	CR	Cr	Fe						
					Oil	96.0	4.0	4.35	E-BC16	SR	GN	GN						
<b>ZD30DD ZD30DDT BD30T</b>	2,953	Atlas Caravan Navara	<b>SDN30153ZZ</b>	4	1st	96.0	2.5	3.5	BF-K2	SR	GN	GN	12033-2W211					
					2nd	96.0	2.0	4.0	T1-IC	CR	Cr	Fe	12033-0W814					
<b>TD27ETi</b>	2,664	Caravan Coach Mistral Terrano			Oil	96.0	3.0	3.25	E-BC16	SR	GN	GN	12033-NA010 12033-0W813 12033-0W81A 12033-7F400					
<b>TD42T</b>	4,169	Safari Civilian	<b>SDN30156ZZ</b>	6	1st	96.0	2.5	3.5	BF-K2	SR	GN	GN	12033-DY712					
					2nd	96.0	2.0	4.0	T1-IC	CR	Cr	Fe						
					Oil	96.0	3.0	3.25	E-BC16	SR	GN	GN						
<b>SDN30167ZZ</b>	6	1st	96.0	2.5	3.7	BF-K2	SR	GN	GN	12033-05D01								
											2nd	96.0	2.0	4.0	T1-IC	CR	Cr	Fe
											Oil	96.0	4.0	4.15	E-BC16	SR	GN	GN
<b>SDN30187ZZ</b>	6	1st	96.0	2.5	4.0	BF	HB	Cr	Fe	12033-06J15								
											2nd	96.0	2.0	4.0	T1-IC	CR	Cr	Fe
											Oil	96.0	3.0	3.25	E-BC16	SR	GN	GN
<b>ZD30DDTi TD27-4</b>	2,953	Safari Terrano	<b>SDN30174ZZ</b>	4	1st	96.0	2.5	3.7	BF-K2	SR	GN	GN	12033-VK610					
					2nd	96.0	2.0	4.0	T1-IB	CR	Fe	Fe	12033-DB010					
					Oil	96.0	2.0	2.75	E-BC16	SR	GN	GN						
<b>ZD30DD</b>	2,953	Caravan Coach Safari Terrano	<b>SDN30195ZZ</b>	4	1st	96.0	2.0	3.1	BF	SR	GN	GN	12033-2W200B					
					2nd	96.0	1.2	3.0	T1-IB	SR	Cr	Fe	12033-VW210					
					Oil	96.0	2.0	2.75	E-BC16	SR	GN	GN	12033-VW211					
<b>ED30</b>	2,956	Truck	<b>SDN30148ZZ</b>	4	1st	98.0	3.0	4.2	BF	HB	Cr	Fe	12033-J5576					
					2nd	98.0	2.0	3.9	T1-IC	CR	Cr	Fe						
					Oil	98.0	4.5	4.4	E-BC3	CR	Cr	Fe						
<b>QD32NA</b>	3,153	Caravan Datsun truck Frontier	<b>SDN30152ZZ</b>	4	1st	99.2	2.5	3.7	BF	SR	GN	GN	12033-2S610					
					2nd	99.2	2.0	4.1	T1-IC	HB	Cr	Fe						
					Oil	99.2	3.0	3.15	E-BC16	SR	GN	GN						
<b>QD32</b>	3,153	Datsun Pick up Caravan Terrano	<b>SDN30164ZZ</b>	4	1st	99.2	2.5	3.8	BF-K2	HB	Cr	Fe	12033-1W411					
					2nd	99.2	2.0	4.1	T1-IC	HB	Cr	Fe						
					Oil	99.2	3.0	3.15	E-BC16	SR	GN	GN						

● Diesel-engine Automobiles ● ディーゼル車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference	
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower		
<b>SD20</b>	1,991	Cedric	<b>SDN31027ZZ</b>	4	1st	83.0	2.5	3.5	BF	HB	Cr	Fe	12033-R8100	
		QG31Y Q131			2nd	83.0	2.0	3.4	T1-IC	HB	Cr	Fe	12033-R8103	
		Junior			Oil	83.0	4.5	3.9	E-BC3	CR	Cr	Fe	12033-R8104	
		Q40 Q41												12033-R8110
		Caball												12033-R8112
		HQC142												12033-R8114
<b>SD22</b>	2,164	QC240												
		DQC240												
		QC141												
		Bus												
		CQC142												
		GHQC142												
<b>SD33T</b>	3,246	Safari	<b>SDN31028ZZ</b>	6	1st	83.0	2.5	3.5	BF-K2	HB	Cr	Fe	12033-C8704	
					2nd	83.0	2.0	3.4	T1-IC	HB	Cr	Fe	12033-C8702	
					Oil	83.0	4.0	4.0	E-BC3	CR	Cr	Fe		
<b>SD15 SD16</b>	1,493	Fork Lift	<b>SDN31030ZZ</b>	3	1st	83.0	2.5	3.5	BF	HB	Cr	Fe	12033-Z7007	
					2nd	83.0	2.0	3.4	T1-IC	HB	Cr	Fe		
					Oil	83.0	4.5	3.9	E-BC3	CR	Cr	Fe		
<b>SD23</b>	2,289	Truck	<b>SDN31023ZZ</b>	4	1st	89.0	2.5	3.7	BF	HB	Cr	Fe	12033-L2000	
		Fork Lift			2nd	89.0	2.0	3.7	T1-IC	HB	Cr	Fe	12033-L2002	
<b>SD25(NEW)</b>	2,494				Oil	89.0	4.5	4.2	E-BC3	CR	Cr	Fe	12033-L2003 12033-L2004	
<b>TD23</b>	2,289	Truck	<b>SDN31037ZZ</b>	4	1st	89.0	2.5	3.7	BF	HB	Cr	Fe	12033-02N00	
		Caravan			2nd	89.0	2.0	3.7	T1-IC	HB	Cr	Fe	12033-02N10	
		Atlas			Oil	89.0	4.0	4.15	E-BC16	SR	Cr	Fe		
<b>TD25</b>	2,494	Truck	<b>SDN31038ZX</b>	4	1st	92.9	2.5	3.45	BF	SR	Cr	Fe	12033-44G10	
		Atlas			2nd	92.9	2.0	4.0	T1-IC	CR	Cr	Fe		
					Oil	92.9	4.0	4.35	E-BC16	SR	GN	GN		
<b>TD25TI</b>	2,494	Atlas	<b>SDN30198ZZ</b>	4	1st	92.9	2.5	3.7	BF-K2	SR	GN	GN	12033-3S910	
		Cedric			2nd	92.9	2.0	4.0	T1-IC	CR	Cr	Fe		
					Oil	92.9	3.0	3.25	E-BC16	SR	GN	GN		

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
TD27	2,664	Homy Atlas Datsun Caravan	SDN31035ZX	4	1st	96.0	2.5	3.65	BF	SR	Cr	Fe	12033-43G11
					2nd	96.0	2.0	4.0	T1-IC	CR	Cr	Fe	12033-43G10
					Oil	96.0	4.0	4.35	E-BC16	SR	GN	GN	
			SDN31056ZZ	4	1st	96.0	2.5	3.65	BF	SR	Cr	Fe	12033-6T010
					2nd	96.0	2.0	4.0	T1-IC	CR	Cr	Fe	
					Oil	96.0	3.0	3.25	E-BC16	SR	GN	GN	
TD42 AD3	4,169	Datsun Jeep Safari Civillian	SDN31052ZX	6	1st	96.0	2.5	3.65	BF	SR	Cr	Fe	12033-06J10
					2nd	96.0	2.0	4.0	T1-IC	CR	Cr	Fe	12033-06J11
					Oil	96.0	4.0	4.35	E-BC16	SR	GN	GN	
TD42-T	4,169	Safari Gran Road	SDN31065ZZ	6	1st	96.0	2.5	3.65	BF	SR	Cr	Fe	12033-06J15
					2nd	96.0	2.0	4.0	T1-IC	CR	Cr	Fe	
					Oil	96.0	3.0	3.25	E-BC16	SR	GN	GN	
ED30	2,956	Truck Bison YC341 Caball YC341	SDN31015ZZ	4	1st	98.0	3.0	4.2	BF	HB	Cr	Fe	12033-J2002
					2nd	98.0	2.0	4.3	T1-IC	CR	Cr	Fe	12033-J2004
					3rd	98.0	2.0	4.3	T1	CR	Cr	Fe	12033-J2006
					Oil	98.0	4.5	4.4	E-BC3	CR	Cr	Fe	97011-02139
ED6 FD6	5,654	Truck Condor CM80 CM85 Bus R80 RM80	SDN31016ZZ	6	1st	100.0	3.0	4.2	BF	HB	Cr	Fe	12040-Z5025
					2nd	100.0	2.0	4.2	T1-IC	CR	Cr	Fe	12040-Z5026
					3rd	100.0	2.0	4.2	T1	CR	Cr	Fe	12040-Z5027
					Oil	100.0	4.5	4.5	E-BC3	CR	Cr	Fe	12040-Z5001(cyl)
FD6T	5,654	Truck Condor CM85 CK85	SDN31020ZZ	6	1st	100.0	3.0	4.2	BF-K1	HB	Cr	Fe	12040-Z5525
					2nd	100.0	2.0	4.2	T1-IC	CR	Cr	Fe	12040-Z5526
					3rd	100.0	2.0	4.2	T1	CR	Cr	Fe	12040-Z5501(cyl)
					Oil	100.0	4.5	4.5	E-BC3	CR	Cr	Fe	
			SDN31021ZZ	6	1st	100.0	3.0	4.2	BF-K2	HB	Cr	Fe	12033-Z5527
					2nd	100.0	2.0	4.2	T1-IC	CR	Cr	Fe	12033-Z5502(cyl)
					3rd	100.0	2.0	4.2	T1	CR	Cr	Fe	
					Oil	100.0	4.5	4.5	E-BC3	CR	Cr	Fe	
ED33	3,298	Truck Bison HMC341 Civillian GHMC341	SDN31025ZZ	4	1st	100.0	3.0	4.2	BF	HB	Cr	Fe	12033-J6500
					2nd	100.0	2.0	4.2	T1-IC	CR	Cr	Fe	12033-J6501
					Oil	100.0	4.5	4.5	E-BC3	CR	Cr	Fe	12033-T9000 12033-Z5004(cyl)
FD6T(NEW)	5,654	Truck	SDN31026ZZ	6	1st	100.0	3.0	4.2	BF-K2	HB	Cr	Fe	12040-Z5528
					2nd	100.0	2.0	4.2	T1-IC	CR	Cr	Fe	12033-Z5504(cyl)
					Oil	100.0	4.5	4.5	E-BC3	CR	Cr	Fe	
FD6 ED6	5,654	Truck	SDN31029ZZ	6	1st	100.0	3.0	4.2	BF	HB	Cr	Fe	12040-Z5028
					2nd	100.0	2.0	4.2	T1-IC	CR	Cr	Fe	12040-Z5005
					Oil	100.0	4.5	4.5	E-BC3	CR	Cr	Fe	

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Fit for UD TRUCKS NISSAN / UDトラックス  
(NISSAN DIESEL / 日産ディーゼル)

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
FD33T	3,298	Datsun Truck	SDN31032ZZ	4	1st	100.0	3.0	4.2	BF-K2	HB	Cr	Fe	12033-T9307
					2nd	100.0	2.0	4.2	T1-IC	CR	Cr	Fe	
					Oil	100.0	4.5	4.5	E-BC3	CR	Cr	Fe	
ED33(NEW)	3,298	Datsun Truck	SDN31050ZZ	4	1st	100.0	2.0	4.0	BF	HB	Cr	Fe	12033-T9303
					2nd	100.0	2.0	4.2	T1-IC	CR	Cr	Fe	12033-T9306
					Oil	100.0	4.0	4.05	E-BC16	SR	Cr	Fe	12033-W4200
FD35	3,465	Condor	SDN31045ZX	4	1st	102.5	2.0	3.65	BF	SR	Cr	Fe	12033-01T10
					2nd	102.5	2.0	4.2	T1-IC	CR	Cr	Fe	
					Oil	102.5	4.0	4.35	E-BC16	SR	GN	GN	
FD35T	3,465	Condor	SDN31057ZZ	4	1st	102.5	3.0	4.2	BF-K2	HB	Cr	Fe	12033-01T60
					2nd	102.5	2.0	4.2	T1-IC	CR	Cr	Fe	
					Oil	102.5	4.0	4.35	E-BC16	SR	GN	GN	
ED35	3,465	Datsun Truck	SDN31051ZZ	4	1st	102.5	3.0	3.65	BF	SR	Cr	Fe	12033-56T10
					2nd	102.5	2.0	4.2	T1-IC	CR	Cr	Fe	
					Oil	102.5	4.0	4.15	E-BC16	SR	Cr	Fe	
FM6T		Cargo Truck	SDN31061ZZ	6	1st	105.9	2.5	3.7	BF-K2	SR	GN	GN	12040-Z5508
					2nd	105.9	2.0	4.5	T1-IC	CR	Cr	Fe	
					Oil	105.9	4.0	4.35	E-BC16	SR	GN	GN	
FD42	4,214	Atlas Condor	SDN31079ZZ (TCC-N-0296)	4	1st	108.0	3.0	3.9	BF	SR	GN	GN	12033-0T011
					2nd	108.0	2.0	4.5	T1-IC	CR	Cr	Fe	
					Oil	108.0	4.0	4.4	E-BC16	SR	GN	GN	
FD46 FD46T	4,617	Condor Atlas	SDN30171ZZ	4	1st	108.0	2.5	3.7	BF-K2	SR	GN	GN	12033-31D03
					2nd	108.0	2.0	4.5	T1-IC	CR	Cr	Fe	
					Oil	108.0	3.0	3.25	E-BC16	SR	GN	GN	
FD46	4,617	Condor Atlas	SDN31064ZX	4	1st	108.0	3.0	4.05	BF	SR	Cr	Fe	12033-0T010
					2nd	108.0	2.0	4.5	T1-IC	CR	Cr	Fe	12033-0T000
					Oil	108.0	4.0	4.4	E-BC16	SR	GN	GN	
FE6T	6,925	MK250	SDN31036ZY	6	1st	108.0	3.0	4.3	BF-K2	HB	Cr	Fe	12040-Z5505
					2nd	108.0	2.0	4.5	T1-IC	CR	Cr	Fe	12040-Z5512
					Oil	108.0	4.0	4.4	E-BC16	SR	GN	GN	12040-Z5517
FE6	6,925	MK250	SDN31044ZX	6	1st	108.0	3.0	3.9	BF	SR	GN	GN	12040-Z5504
					2nd	108.0	2.0	4.5	T1-IC	CR	Cr	Fe	12040-Z5511
					Oil	108.0	4.0	4.4	E-BC16	SR	GN	GN	
FE6TA	6,925	MK250	SDN31054ZZ	6	1st	108.0	2.5	3.7	BF-K2	SR	GN	GN	12040-Z5519
					2nd	108.0	2.0	4.5	T1-IC	CR	Cr	Fe	12040-Z5560
					Oil	108.0	4.0	4.4	E-BC16	SR	GN	GN	12040-Z5561 12040-Z5603

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>FE6T-24V FE6TC</b>	6,926	CWA214	<b>SDN31067ZZ</b>	6	1st	108.0	2.5	3.3	BF-K2	SR	GN	GN	12040-Z5608
					2nd	108.0	2.0	3.25	T1-IB	SR	Cr	Fe	
					Oil	108.0	3.0	3.25	E-BC16	SR	GN	GN	
<b>UD3</b>	3,076	Truck U680 TU680 DUG680 U681 Bus U690 UR690 NUR690 UG680	<b>YDN31005ZZ</b>	1	1st	110.0	3.0	4.45	BF	HB	Fe	Fe	12040-90008
					2nd	110.0	3.0	4.45	BF	HB	Fe	Fe	
					3rd	110.0	3.0	4.2	T1	CR	Fe	Fe	
					4th	110.0	3.0	4.2	T1	CR	Fe	Fe	
					Oil 1	110.0	4.8	4.8	E-BC3	CR	Fe	Fe	
					Oil 2	110.0	4.8	4.8	E-BC3	CR	Fe	Fe	
<b>UD4</b>	4,941	Truck T80 T80S T80SD TC81 Bus R80 4R82 4RA82 RX102 4RA104	<b>YDN31005ZZ</b>	1	1st	110.0	3.0	4.45	BF	HB	Fe	Fe	12040-90008
					2nd	110.0	3.0	4.45	BF	HB	Fe	Fe	
					3rd	110.0	3.0	4.2	T1	CR	Fe	Fe	
<b>UD5</b>	6,177	Truck 5TWDC10 Bus 5R104 5RA104	<b>YDN31005ZZ</b>	1	1st	110.0	3.0	4.45	BF	HB	Fe	Fe	12040-90008
					2nd	110.0	3.0	4.45	BF	HB	Fe	Fe	
					3rd	110.0	3.0	4.2	T1	CR	Fe	Fe	
<b>UD6</b>	7,413	Truck 6TW1Z 6TW1ZS 6TW12SD Bus 6R110 6RA110	<b>YDN31005ZZ</b>	1	1st	110.0	3.0	4.45	BF	HB	Fe	Fe	12040-90008
					2nd	110.0	3.0	4.45	BF	HB	Fe	Fe	
					3rd	110.0	3.0	4.2	T1	CR	Fe	Fe	
<b>UD8</b>	9,822	Bus U8RA110	<b>YDN31005ZZ</b>	1	1st	110.0	3.0	4.45	BF	HB	Fe	Fe	12040-90008
					2nd	110.0	3.0	4.45	BF	HB	Fe	Fe	
					3rd	110.0	3.0	4.2	T1	CR	Fe	Fe	
<b>UD12</b>	14,825	WD38	<b>YDN31005ZZ</b>	1	1st	110.0	3.0	4.45	BF	HB	Fe	Fe	12040-90008
					2nd	110.0	3.0	4.45	BF	HB	Fe	Fe	
					3rd	110.0	3.0	4.2	T1	CR	Fe	Fe	
<b>ND6</b>	6,842	CK10 PRX102 For Industrial Machine	<b>SDN31006ZX</b>	6	1st	110.0	4.0	4.4	BF	CR	Cr	Fe	12040-95025
					2nd	110.0	3.0	4.4	T1	CR	Cr	Fe	12040-95005(cyl)
					Oil	110.0	5.0	4.95	E-BC16	SR	GN	GN	12040-95006 12040-90127 12040-95004(cyl)
<b>ND6T</b>	6,842	Bus	<b>SDN31017ZZ</b>	6	1st	110.0	4.0	4.4	BF-K1	HB	Cr	Fe	12040-90326
					2nd	110.0	3.0	4.4	T1	CR	Cr	Fe	12040-95003(cyl)
					Oil	110.0	5.0	4.7	E-BC3	HB	Cr	Fe	

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Fit for UD TRUCKS NISSAN / UDトラックス  
(NISSAN DIESEL / 日産ディーゼル)

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
NE6 NE6TA	7,412	U.S.A. Spec	SDN31031ZX	6	1st	110.0	3.0	4.1	BF-K2	SR	GN	GN	12040-95012
					2nd	110.0	2.5	4.0	T1-IC	CR	Cr	Fe	12040-95013
					Oil	110.0	4.0	4.35	E-BC16	SR	GN	GN	12040-95014 12040-95016 12040-95029
GH5	4,675	Condor MK LK	SDN31075ZZ	4	1st	110.0	2.8	3.7	BF-K1	SR	GN	GN	52215-34346
					2nd	110.0	2.0	4.35	T1	CR	Cr	Fe	
					Oil	110.0	2.5	3.05	E-BC16	SR	GN	GN	
GH7	7,013	Condor PK PW	SDN31076ZZ	6	1st	110.0	2.8	3.7	BF-K1	SR	GN	GN	
					2nd	110.0	2.0	4.35	T1	CR	Cr	Fe	
					Oil	110.0	2.5	3.05	E-BC16	SR	GN	GN	
NS6TA NF6TA	9,160	CV32	SDN31060ZZ	6	1st	120.0	3.0	4.1	BF-K2	SR	GN	GN	12040-95501
					2nd	120.0	2.5	4.8	T1-IC	CR	Cr	Fe	
					Oil	120.0	4.0	4.4	E-BC16	SR	GN	GN	
GH11	10,836	Quon Truck GK Truck	SDN31074ZZ	6	1st	123.0	3.306	4.5	BF-K1-IB	SR	GN	GN	52213-56406
					2nd	123.0	2.5	4.3	T1-RB	SR	GN	GN	
					Oil	123.0	3.0	3.2	E-BC16	SR	GN	GN	
MD92TCI	9,203	Bus UA272 Truck Quon	SDN31053ZY	6	1st	125.0	2.5	4.3	BF-K2	SR	GN	GN	12040-Z6002
					2nd	125.0	2.0	4.3	T1-IB	SR	GN	GN	12040-Z6004
					Oil	125.0	3.0	3.1	E-BC16	SR	GN	GN	12040-Z6005
MD92	9,203	Condor	SDN31077ZZ	6	1st	125.0	2.0	4.1	BF-IB	SR	GN	GN	12040-Z6003(cyl)
					2nd	125.0	2.0	5.0	T1-IC	HB	Cr	Fe	
					Oil	125.0	3.0	3.25	E-BC16	SR	GN	GN	
PD6	10,308	CB20 CK20 TK20 U20 TFA21 CD40 CV40 CW40 PT81	SDN31007ZX	6	1st	125.0	5.0	5.2	BF	CR	Cr	Fe	12040-90026
					2nd	125.0	3.5	5.2	T1-IC	CR	Cr	Fe	12040-90029
					Oil	125.0	5.0	4.95	E-BC16	SR	GN	GN	12040-90125
													12040-96007
													12040-96009
													12040-96026
													12040-96127
								12040-96226					
								12040-96000(cyl)					
								12040-96004(cyl)					
PD6T	10,308	CW41 CK20 TK20 CD40 CV40 PT81 CW40 M20 CB20 TFA21	SDN31012ZX	6	1st	125.0	4.0	5.2	BF-K1	HB	Cr	Fe	12040-96125
					2nd	125.0	3.5	5.2	T1-IC	CR	Cr	Fe	12040-96129
					Oil	125.0	5.0	4.95	E-BC16	SR	GN	GN	12040-90228
													12000-96005(cyl)
													12040-96005(cyl)
								12040-96010(cyl)					
PD6T	10,308	Bus Truck	SDN31042ZZ	6	1st	125.0	4.0	5.0	BF-K2	HB	Cr	Fe	12040-96013
					2nd	125.0	3.5	5.2	T1-IC	CR	Cr	Fe	
					Oil	125.0	5.0	4.8	E-BC16	CR	Cr	Fe	



Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
GH13	12,777	Quon Tractor	SDN31073ZZ	6	1st	131.0	3.306	4.7	BF-K1HB	SR	GN	GN	52212-53763
					2nd	131.0	2.5	4.7	T1-RC	SR	GN	GN	
					Oil	131.0	3.0	3.2	E-BC16	SR	GN	GN	
PE6	11,670	CK30 CK31 CV31 CD32 RB30 CB300	SDN31011ZZ	6	1st	133.0	4.0	5.2	BF-K1	HB	Cr	Fe	12040-90225
					2nd	133.0	3.5	5.5	T1-IC	CR	Cr	Fe	12040-90227
					Oil	133.0	6.0	5.7	E-BC3	CR	Cr	Fe	12040-96028
													12040-96128
													12040-96500(cyl) 12040-96503(cyl)
PE6T	11,670	CD45	SDN31022ZZ	6	1st	133.0	4.0	5.3	BF-K2	HB	Cr	Fe	12040-96225
					2nd	133.0	3.5	5.5	T1-IC	CR	Cr	Fe	12040-96228
					Oil	133.0	6.0	5.7	E-BC3	HB	Cr	Fe	12040-96512
			SDN31041ZY	6	1st	133.0	3.0	5.2	BF-K2	HB	Cr	Fe	12040-96504(cyl)
					2nd	133.0	2.5	5.5	T1-IC	CR	Cr	Fe	12040-96509(cyl)
					Oil	133.0	4.0	4.35	E-BC16	SR	GN	GN	12040-96510(cyl) 12040-96513(cyl)
PF6	12,503	Truck	SDN31048ZZ	6	1st	133.0	2.5	4.70	BF-K2	SR	GN	GN	12040-96566
					2nd	133.0	2.5	5.50	T1-IC	CR	Cr	Fe	12040-96570
					Oil	133.0	4.0	4.05	E-BC16	SR	Cr	Fe	12040-96564(cyl)
RD8	14,313	Bus CD52 CW50 CW51 CW52 RA50 RA51 TWA52 WD151	SDN31013ZY	V8	1st	135.0	4.0	5.1	BF	HB	Cr	Fe	12040-90325
					2nd	135.0	3.0	5.5	T1-IC	CR	Cr	Fe	12040-97008
					Oil	135.0	6.0	5.7	E-BC16	CR	Cr	Fe	12040-97025
													12040-97026 12040-97028 12040-97126 12040-97179 12040-97226 12040-97228 12040-97007(cyl)
RD8T	14,313	Bus DA50 RA50 RA51	SDN31071ZZ	V8	1st	135.0	4.0	5.5	BF-K1	HB	Cr	Fe	12040-97109(cyl)
					2nd	135.0	3.0	5.4	T1-IC	HB	Cr	Fe	
					Oil	135.0	5.0	4.95	E-BC16	SR	Cr	Fe	
RD10	17,829	CK60 CW60 CW61 WD23 WD30	SDN31014ZZ	V10	1st	135.0	4.0	5.1	BF	HB	Cr	Fe	12040-97025
					2nd	135.0	3.0	5.5	T1-IC	CR	Cr	Fe	12040-97125
					Oil	135.0	6.0	5.7	E-BC3	CR	Cr	Fe	12040-97127
													12040-97227 12040-90229 12040-97007(cyl)
RD10T	17,892	Truck Marine	SDN31072ZZ	V10	1st	135.0	4.0	5.5	BF-K1	HB	Cr	Fe	12040-97109(cyl)
					2nd	135.0	3.0	5.4	T1-IC	HB	Cr	Fe	
					Oil	135.0	5.0	4.95	E-BC16	SR	Cr	Fe	

DAIHATSU  
SUBARU  
HINO  
HONDA  
ISUZU  
KOMATSU  
MAZDA  
MITSUBISHI  
NISSAN  
UD TRUCKS  
SUZUKI  
TOYOTA  
DAEWOO  
HYUNDAI  
KIA  
CHINA  
ASIA  
CHRYSLER  
FORD  
G M  
EUROPE

Fit for UD TRUCKS NISSAN / UDトラックス  
(NISSAN DIESEL / 日産ディーゼル)

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
<b>RD8T</b>	14,313	Truck CV56	<b>SDN31018ZZ</b>	V8	1st	135.0	4.0	5.5	BF-K1	HB	Cr	Fe	12040-97128
					2nd	135.0	3.0	5.5	T1-IC	CR	Cr	Fe	12040-97008(cyl)
					Oil	135.0	6.0	5.7	E-BC16	CR	Cr	Fe	
<b>RE8</b>	15,115	CW53 CD53 CW510	<b>SDN31033ZZ</b>	V8	1st	135.0	3.0	5.1	BF	HB	Cr	Fe	12040-97074
					2nd	135.0	3.0	5.5	T1-IC	CR	Cr	Fe	
					Oil	135.0	5.0	4.95	E-BC16	SR	Cr	Fe	
<b>RE10</b>	18,894		<b>SDN31058ZZ</b>	V10	1st	135.0	3.0	5.1	BF	HB	Cr	Fe	
					2nd	135.0	3.0	5.5	T1-IC	CR	Cr	Fe	
					Oil	135.0	5.0	4.95	E-BC16	SR	Cr	Fe	
<b>GE13TD</b>	13,074	Truck Big Thumb	<b>SDN31063ZZ</b>	6	1st	136.0	2.5	3.7	BF-K2	SR	GN	GN	12040-00Z07
					2nd	136.0	2.0	3.7	T1-IB	HB	Cr	Fe	12040-00Z0A
					Oil	136.0	3.0	3.0	E-BC16	SR	GN	GN	
<b>RF8</b>	16,991	CD520	<b>SDN31034ZZ</b>	V8	1st	138.0	2.5	5.2	BF-IB	HB	Cr	Fe	12040-97072
					2nd	138.0	2.5	5.6	T1-IC	CR	Cr	Fe	
		CD520 Big Thumb	<b>SDN31034ZX</b>	V8	1st	138.0	2.5	4.7	BF	SR	GN	GN	12040-97072
					2nd	138.0	2.5	5.6	T1-IC	CR	Cr	Fe	
Oil	138.0	4.0	4.35	E-BC16	SR	GN	GN						
<b>RF8T</b>	16,991	CD520	<b>SDN31068ZZ</b>	V8	1st	138.0	3.0	4.7	BF-K2	SR	GN	GN	12040-97101
					2nd	138.0	2.5	5.6	T1-IC	CR	Cr	Fe	
					Oil	138.0	4.0	4.05	E-BC16	SR	GN	GN	
<b>RF8TI</b>	16,991	Big Thumb	<b>TCC-N-0295</b>	V8	1st	138.0	2.5		BF-K2	SR	GN	GN	12040-ND000
					2nd	138.0	2.0		T1-IB	SR	GN	GN	
					Oil	138.0	4.0		E-BC16	SR	GN	GN	
<b>RF10</b>	21,239	Big Thumb	<b>SDN31043ZZ</b>	V10	1st	138.0	2.5	4.7	BF	SR	GN	GN	12040-97078
					2nd	138.0	2.5	5.6	T1-IC	CR	Cr	Fe	
					Oil	138.0	4.0	4.35	E-BC16	SR	GN	GN	
<b>RG8</b>	17,991	KL-CD53	<b>SDN31059ZZ</b>	V8	1st	142.0	3.0	4.7	BF	SR	GN	GN	12040-97107
					2nd	142.0	2.5	5.8	T1-IB	CR	Cr	Fe	
			<b>TCC-H-0097</b>	V8	1st	142.0	2.5		BF	SR	GN	GN	12040-ND001
					2nd	142.0	2.0		T1-IB	SR	GN	GN	
Oil	142.0	4.0		E-BC16	SR	GN	GN						
<b>RH8</b>	21,205	Tractor	<b>YDN31055ZZ</b> (cyl)	1	1st	150.0	3.0	4.7	BF	SR	GN	GN	12040-97106(cyl)
					2nd	150.0	2.5	5.6	T1-IC	CR	Cr	Fe	12040-97105(cyl)
<b>RH10</b>	26,507				Oil	150.0	4.0	4.35	E-BC16	SR	GN	GN	

## ● Gasoline-engine Automobiles ● ガソリン車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>LJ50</b>	539	Carry Truck Carry Van	<b>SBS20078ZZ</b>	3	1st	61.0	1.2	2.45	K2	SR	Cr	Fe	12140-72811
					2nd	61.0	2.0	2.6	BF-K2	CR	Cr	Fe	12140-67011
<b>F8A</b>	797	New Jimny Carry Van	<b>SWS20098ZZ</b>	4	1st	62.0	1.5	2.8	BF	HB	Cr	Fe	12140-73010
					2nd	62.0	1.5	2.8	T1	CR	Fe	Fe	
					Oil	62.0	2.8	2.8	NIFF-S	SR	Cr	Fe	
<b>F5A</b>	543	Fronte 550	<b>SWS20138ZZ</b>	3	1st	62.0	1.5	2.8	BF	HB	Cr	Fe	12140-73000
					2nd	62.0	1.5	2.8	T1	CR	Fe	Fe	
					Oil	62.0	2.8	2.8	NIFF-S	SR	Cr	Fe	
<b>F8A(NEW)</b>	797	Jimny Carry Van	<b>SWS20153ZZ</b>	4	1st	62.0	1.2	2.25	BF-IB	SR	Cr	Fe	12140-85050
					2nd	62.0	1.2	2.5	TUC	CR	Fe	Fe	
					Oil	62.0	2.8	2.85	NIFF-S	SR	GN	GN	
<b>F5A(NEW)</b>	543	Fronte Cervo	<b>SWS20184ZZ</b>	3	1st	62.0	1.2	2.25	BF-IB	SR	Cr	Fe	12140-85050
					2nd	62.0	1.2	2.5	TUC	CR	Fe	Fe	
					Oil	62.0	2.8	2.85	NIFF-S	SR	GN	GN	
<b>R06A</b>	658	MR Wagon Wagon R Alto Carry Spacia Hustler Every	<b>SWS20229ZZ (TCC-N-0701)</b>	3	1st	64.0	1.0	2.1	BF-IB	SR	GN	GN	12140-55S00
					2nd	64.0	1.0	2.1	TUC	SR	Fe	Fe	
					Oil	64.0	2.0	1.95	NIFF-H	SR	GN	GN	
<b>F6A</b>	657	Alto Van Cervo	<b>SWS20128ZZ</b>	3	1st	65.0	1.2	2.3	BF-IB	SR	GN	GN	12140-51E50
					2nd	65.0	1.5	2.7	TUC	CR	Fe	Fe	
					Oil	65.0	2.5	2.5	NIFF-H	SR	GN	GN	
		Alto Works RS/R AZ Wagon Kei	<b>SWS20211ZZ</b>	3	1st	65.0	1.2	2.3	BF-IB	SR	GN	GN	12140-50E50
					2nd	65.0	1.2	2.7	TUC	CR	Fe	Fe	
					Oil	65.0	2.5	2.5	NIFF-H	SR	GN	GN	
<b>F6A-N</b>	657	Alto Cuppuccino Cara Carry Every Jimny	<b>SWS20220ZZ</b>	3	1st	65.0	1.0	2.25	BF-IB	SR	Cr	Fe	12140-51F10
					2nd	65.0	1.2	2.75	T1	CR	Fe	Fe	
					Oil	65.0	2.0	2.55	NIFF-H	SR	GN	GN	
<b>F10A</b>	970	Jimny	<b>SWS20106ZZ</b>	4	1st	65.5	1.5	2.5	BF	SR	GN	GN	12140-75111 12140-75110(cyl)
					2nd	65.5	1.5	2.7	T1	CR	Fe	Fe	
					Oil	65.5	2.8	2.8	NIFF-H	SR	Cr	Fe	
<b>K6A</b>	658	Alto Jimny Kei	<b>SWS20200ZZ</b>	3	1st	68.0	1.0	2.25	BF-IB	SR	Cr	Fe	12140-73601
					2nd	68.0	1.2	2.5	TUC	CR	Fe	Fe	
					Oil	68.0	2.0	2.3	NIFF-H	SR	Cr	Fe	
<b>K10A</b>	996	Alto Works	<b>SWS20206ZZ</b>	4	1st	68.0	1.0	2.25	BF-IB	SR	Cr	Fe	12140-73G01-000
					2nd	68.0	1.2	2.5	TUC	CR	Fe	Fe	
					Oil	68.0	2.0	2.3	NIFF-H	SR	Cr	Fe	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>SS80 Y64 Y65</b>	796	Alto Fronte	<b>SWS20120ZZ</b>	3	1st	68.5	1.5	2.8	BF	HB	Cr	Fe	12140-78410
					2nd	68.5	1.5	2.8	T1	CR	Fe	Fe	12140-78411(cyl)
					Oil	68.5	2.8	2.88	NIFF-H	SR	GN	GN	
<b>F8D</b>	796	Alto	<b>SWS20221ZZ</b>	3	1st	68.5	1.2	2.65	BF-IB	SR	Cr	Fe	12140M84400
					2nd	68.5	1.5	2.8	T1	CR	Fe	Fe	
					Oil	68.5	2.5	2.25	NIFF-H	SR	Cr	Fe	
<b>F10D</b>	1,061	Maruti Zen Estilo Suzuki/Maruti Alto Wagon R	<b>SWS20225ZZ</b>	4	1st	68.5	1.0	2.5	BF-IB	SR	GN	GN	12140M79G60-000
					2nd	68.5	1.2	2.7	TUC	CR	Fe	Fe	
					Oil	68.5	2.0	2.55	NIFF-H	SR	GN	GN	
<b>K12A</b>	1,197	Swift	<b>SWS20205ZZ</b>	4	1st	71.0	1.0	2.5	BF-IB	SR	GN	GN	12140-75F30-000
					2nd	71.0	1.2	2.8	TUC	CR	Cr	Fe	
					Oil	71.0	2.0	2.5	NIFF-H	SR	GN	GN	
<b>G10</b>	993	Cultus Forsa Swift	<b>SWS20209ZZ</b>	4	1st	72.0	1.2	2.7	BF-IB	SR	GN	GN	12140-72F00
					2nd	72.0	1.5	3.2	TUC	CR	Fe	Fe	
					Oil	72.0	2.8	2.8	NIFF-H	SR	GN	GN	
<b>K10B</b>	996	Splash Alto Wagon R Multi Suzuki	<b>SWS20223ZZ</b>	3	1st	73.0	1.0	2.3	BF-IB	SR	GN	GN	12140B58M50N000
					2nd	73.0	1.2	2.55	TUC	CR	Fe	Fe	
					Oil	73.0	2.0	2.2	NIFF-H	SR	GN	GN	
<b>G10</b>	993	Swift Cultus	<b>SWS20144ZZ</b>	3	1st	74.0	1.2	2.7	BF	SR	GN	GN	12140-82161
					2nd	74.0	1.5	3.2	T1-IB	CR	Cr	Fe	
					Oil	74.0	2.8	2.8	NIFF-H	SR	GN	GN	
	993	Cultus	<b>SWS20131ZZ</b>	3	1st	74.0	1.2	2.8	BF	SR	Cr	Fe	12140-82001(cyl)
					2nd	74.0	1.5	3.2	T1	CR	Fe	Fe	12140-82050(cyl)
					Oil	74.0	2.8	2.8	NIFF-H	SR	GN	GN	12140-82051(cyl)
	993	Cultus	<b>SWS20185ZZ</b>	3	1st	74.0	1.2	2.7	BF-IB	SR	GN	GN	12140-63E50
					2nd	74.0	1.2	3.2	TUC	CR	Fe	Fe	
					Oil	74.0	2.5	2.85	NIFF-S	SR	GN	GN	
<b>G13A G13BA</b>	1,298	Cultus	<b>SWS20141ZZ</b>	4	1st	74.0	1.2	2.8	BF	SR	Cr	Fe	12140-82001(cyl)
					2nd	74.0	1.5	3.2	T1	CR	Fe	Fe	12140-82050(cyl)
					Oil	74.0	2.8	2.8	NIFF-H	SR	GN	GN	12140-82051(cyl)
	Swift	<b>SWS20143ZZ</b>	4	1st	74.0	1.2	2.85	BF-IB	SR	Cr	Fe	12140-82010	
				2nd	74.0	1.5	3.2	T1-IB	CR	Fe	Fe		
				Oil	74.0	2.8	2.55	NIFF-S	SR	Cr	Fe		
<b>G13B G13BB</b>	1,298	Swift	<b>SWS20186ZZ</b>	4	1st	74.0	1.2	2.7	BF-IB	SR	GN	GN	12140-63E50
					2nd	74.0	1.2	3.2	TUC	CR	Fe	Fe	
					Oil	74.0	2.5	2.85	NIFF-S	SR	GN	GN	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>G16A G16B</b>	1,590	Escudo	<b>SWS2014ZZ</b>	4	1st	75.0	1.2	2.7	BF-IB	SR	GN	GN	12140-60A50
					2nd	75.0	1.5	3.2	TUC	CR	Fe	Fe	
					Oil	75.0	2.8	2.8	NIFF-S	SR	GN	GN	
	<b>SWS2019ZZ</b>	4	1st	75.0	1.2	2.7	BF-IB	SR	GN	GN	12140-61G50 12140-61G00(cyl)		
			2nd	75.0	1.2	2.8	TUC	CR	Fe	Fe			
			Oil	75.0	2.5	2.45	NIFF-H	SR	GN	GN			
<b>G15A</b>	1,493	APV	<b>SWS2021ZZ</b>	4	1st	75.0	1.2	2.7	BF-IB	SR	GN	GN	12140-61J00
<b>G16A</b>	1,590				2nd	75.0	1.2	3.15	TUC	CR	Fe	Fe	
		Oil	75.0	2.5	2.25	NIFF-H	SR	GN	GN				
<b>M13A</b>	1,328	Swift Jimny	<b>SWS2019ZZ</b>	4	1st	78.0	1.2	2.85	BF-IB	SR	Cr	Fe	
		2nd			78.0	1.5	3.2	TUC	CR	Fe	Fe		
		Oil			78.0	2.8	2.6	NIFF-S	SR	Cr	Fe		
<b>M13A</b>	1,328	Swift Solio	<b>SWS20196ZY</b>	4	1st	78.0	1.2	2.7	BF-IB	SR	GN	GN	12140-54GA0
		2nd			78.0	1.2	3.0	TUC	CR	Fe	Fe		
<b>M15A</b>	1,490	Chevrolet MW Aerio SX-4			Oil	78.0	2.5	2.45	NIFF-H	SR	GN	GN	
<b>H20A</b>	1,998	Escudo Vitara	<b>SWS20228ZZ</b>	V6	1st	78.0	1.2	2.7	BF-IB	SR	GN	GN	12140-85FA0
		2nd			78.0	1.5	3.2	TUC	CR	Fe	Fe		
		Oil			78.0	2.5	2.75	NIFF-H	SR	GN	GN		
<b>J18 J18A</b>	1,840	Estreem Cultus	<b>SWS20178ZZ</b>	4	1st	84.0	1.2	2.9	BF-IB	SR	GN	GN	12140-77E00
		2nd			84.0	1.5	3.55	TUC	CR	Cr	Fe		
		Oil			84.0	2.5	2.85	NIFF-S	SR	GN	GN		
<b>J20 J20A</b>	1,995	Escudo Aerio											
<b>J20B</b>	1,995	SX-4	<b>SWS20216ZZ</b>	4	1st	84.0	1.2	2.5	BF-IB	SR	GN	GN	12140-65J00
		2nd			84.0	1.2	3.0	TUC	CR	Cr	Fe		
		Oil			84.0	2.5	2.45	NIFF-H	SR	GN	GN		
<b>H25A</b>	2,494	Escudo	<b>SWS20207ZZ</b>	V6	1st	84.0	1.2	2.9	BF-IB	SR	GN	GN	12140-86FA0
		2nd			84.0	1.5	3.55	TUC	CR	Cr	Fe		
		Oil			84.0	2.5	2.85	NIFF-S	SR	GN	GN		
<b>H27A</b>	2,736	Escude	<b>SWS20210ZZ</b>	V6	1st	88.0	1.2	3.3	BF-IB	SR	GN	GN	12140-52D00-00
		2nd			88.0	1.5	3.3	TUC	CR	Cr	Fe		
		Oil			88.0	2.8	2.85	NIFF-S	SR	GN	GN		
<b>J24B</b>	2,393	Escude	<b>SWS20215ZZ</b>	4	1st	92.0	1.2	3.1	BF-IB	SR	GN	GN	12140-78K00
		2nd			92.0	1.0	3.1	TUC	SR	Fe	Fe		
		Oil			92.0	2.0	2.55	NIFF-H	SR	GN	GN		

## ● Gasoline-engine Automobiles ● ガソリン車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference	
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower		
<b>1SZ</b>	997	Vitz	<b>SWT10201ZZ</b>	4	1st	69.0	1.2	2.25	BF	SR	Cr	Fe	13011-23040	
					2nd	69.0	1.2	2.8	TUC	CR	Fe	Fe	13011-23041	
					Oil	69.0	2.0	2.2	NIFF-H	SR	GN	GN		
<b>1E-L</b>	999	Starlet	<b>SWT10104ZZ</b>	4	1st	70.5	1.5	2.7	BF-IB	SR	GN	GN	13011-10070	
					2nd	70.5	1.5	2.9	T1	CR	Fe	Fe	13011-10080	
					Oil	70.5	3.0	3.05	NIFF-S	SR	GN	GN	13011-10081	
<b>1KR-FE</b>	996	iQ Passo Boon Vitz	<b>SWT10223ZZ</b>	3	1st	71.0	1.0	2.3	BF	SR	Cr	Fe	13011-40030A	
					2nd	71.0	1.0	2.3	TUC	SR	Fe	Fe	13011-40050	
					Oil	71.0	1.5	2.2	NIFF-H	SR	Cr	Fe	13011-40051	
													13011-40052	
<b>1KR-VE</b>	998	Agya Wigo	<b>SWT10265ZZ</b>	3	1st	71.0	1.0	2.3	BF-IB	SR	GN	GN	13011-BZ150	
					2nd	71.0	1.0	2.3	TUC	SR	Fe	Fe		
					Oil	71.0	2.0	2.2	NIFF-H	SR	GN	GN		
<b>K3-VE</b>	1,297	bB	<b>SWT10220ZZ</b>	4	1st	72.0	1.2	2.3	BF	SR	GN	GN	13011-BZ010	
					2nd	72.0	1.2	2.6	TUC	CR	Fe	Fe	13011-23060	
					Oil	72.0	2.0	2.25	NIFF-H	SR	GN	GN		
<b>2SZ</b>	993	Publica Starlet	<b>SWT10029ZZ</b>	4	1st	72.0	2.0	3.4	T1	CR	Cr	Fe	13011-12030	
					2nd	72.0	2.0	3.4	T1	CR	Fe	Fe	13011-12010	
					Oil	72.0	4.0	3.8	NIFF-S	SR	Cr	Fe	13011-12031	
<b>3SZ-VE</b>	1,495	Rush bB Town Ace Lite Ace Avanza	<b>SWT10219ZZ</b>	4	1st	72.0	1.2	2.5	BF-IB	SR	GN	GN	13011-BZ110	
					2nd	72.0	1.2	2.3	TUC	HB	Fe	Fe	13011-BZ1040	
					Oil	72.0	2.0	2.25	NIFF-H	SR	GN	GN		
<b>2SZ-FE</b>	1,296	Vitz	<b>SWT10238ZZ</b>	4	1st	72.0	1.0	2.25	BF-IB	SR	Cr	Fe	13011-23073	
					2nd	72.0	1.0	2.3	TUC	SR	Fe	Fe		
					Oil	72.0	1.5	2.0	NIFF-H	SR	Cr	Fe		
<b>1NR-FE</b>	1,329	iQ Corolla Yaris	<b>SWT10251ZZ</b>	4	1st	72.5	1.0	2.3	BF-IB	SR	GN	GN	13011-47031	
					2nd	72.5	1.0	2.3	TUC	SR	Fe	Fe		
					Oil	72.5	1.5	2.0	NIFF-H	SR	Cr	Fe		
		Corolla Yaris			<b>SWT10250ZZ</b>	1st	72.5	1.0	2.3	BF-IB	SR	GN	GN	13011-47033
						2nd	72.5	1.0	2.3	TUC	SR	Fe	Fe	
						Oil	72.5	2.0	2.25	NIFF-H	SR	GN	GN	
<b>3NR-FE</b> <b>3NR-VE</b>	1,197	Agya Etios Yaris	<b>SWT10252ZZ</b>	4	1st	72.5	1.0	2.45	BF-IB	SR	Cr	Fe	04130-47010	
					2nd	72.5	1.0	2.3	TUC	SR	Fe	Fe		
					Oil	72.5	2.0	2.55	NIFF-H	SR	Cr	Fe		
<b>2E-LU</b> <b>2E-ELU</b>	1,295	Corolla Starlet Sprinter	<b>SWT10105ZZ</b>	4	1st	73.0	1.5	2.7	BF-IB	SR	GN	GN	13011-11040	
					2nd	73.0	1.5	3.1	TUC	CR	Fe	Fe	13011-11041	
					Oil	73.0	3.0	3.05	NIFF-S	SR	GN	GN	13011-11060	
<b>3E</b> <b>3E-E</b>	1,456	Tercel Corsa	<b>SWT10143ZZ</b>	4	1st	73.0	1.5	2.65	BF	SR	Cr	Fe	13011-11090	
					2nd	73.0	1.5	3.1	TUC	CR	Fe	Fe	13011-11061	
<b>3E-E</b>		Tercel Corsa Corolla			Oil	73.0	3.0	3.0	NIFF-S	SR	Cr	Fe		



Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>4E-FE</b>	1,331	Corolla Starlet Sprinter	<b>SWT10128ZZ</b>	4	1st	74.0	1.2	2.7	BF	SR	Cr	Fe	13011-11122
					2nd	74.0	1.2	3.1	TUC	CR	Fe	Fe	13011-11140
					Oil	74.0	3.0	2.85	NIFF-H	SR	GN	GN	13011-11160
<b>5E-FE</b>	1,496	Tercel Corsa											
<b>K</b>	1,077	Publica Starlet	<b>SWT10052ZY</b>	4	1st	75.0	2.0	3.6	BF	CR	Cr	Fe	13011-22011
<b>3K</b>	1,166	Sprinter Corolla Corona			2nd	75.0	2.0	3.6	T1	CR	Fe	Fe	13011-24010
					Oil	75.0	4.0	3.05	NIFF-S	SR	Cr	Fe	13011-24011 13011-24012 13011-24020 13011-24030
<b>4K</b>	1,290	Daihatsu Charman											
<b>4K-E</b>	1,290	Corolla Starlet Sprinter	<b>SWT10109ZZ</b>	4	1st	75.0	1.5	3.05	BF	SR	Cr	Fe	13011-13010
					2nd	75.0	1.5	3.4	T1	CR	Fe	Fe	13011-13060
					Oil	75.0	4.0	3.05	NIFF-S	SR	GN	GN	
<b>1G-EU</b>	1,988	Soarer Crown Mark II Chaser Cresta	<b>SWT10073ZZ</b>	6	1st	75.0	1.5	3.25	BF	HB	Cr	Fe	13011-70010
					2nd	75.0	1.5	3.4	T1	CR	Fe	Fe	13011-70030
					Oil	75.0	4.0	3.05	NIFF-S	SR	Cr	Fe	
<b>1G-FE</b>	1,988	Crown Mark II Chaser Cresta	<b>SWT10170ZZ</b>	6	1st	75.0	1.2	2.5	BF	SR	Cr	Fe	13011-70110
					2nd	75.0	1.2	2.8	TUC	CR	Fe	Fe	
					Oil	75.0	3.0	2.8	NIFF-S	SR	Cr	Fe	
<b>1G-GEU</b>	1,988	Altezza Crown Cresta Supra Soarer Chaser Mark II	<b>SWT10212ZZ</b>	6	1st	75.0	1.2	3.05	BF-IB	SR	Cr	Fe	13011-88300
					2nd	75.0	1.5	3.2	TUC	CR	Cr	Fe	
					Oil	75.0	2.8	2.8	NIFF-S	SR	Cr	Fe	
<b>1NZ-FE</b> <b>2NZ-FE</b>	1,496	Vitz Ist Porte Corolla Funcargo	<b>SWT10192ZZ</b>	4	1st	75.0	1.2	2.5	BF	SR	GN	GN	13011-21050
	1,298				2nd	75.0	1.2	2.8	TUC	CR	Fe	Fe	13011-21041
					Oil	75.0	2.0	2.2	NIFF-H	SR	GN	GN	
<b>2NZ-FE</b>	1,298	Yaris Vitz Funcargo	<b>SWT10211ZZ</b>	4	1st	75.0	1.2	2.5	BF	SR	GN	GN	13011-21060
					2nd	75.0	1.2	2.5	TUC	HB	Cr	Fe	
					Oil	75.0	3.0	2.55	NIFF-S	SR	GN	GN	
<b>1NZ-FXE</b>	1,497	Prius	<b>SDT10222ZZ</b>	4	1st	75.0	1.2	2.5	BF	SR	GN	GN	13011-21030
					2nd	75.0	1.2	2.8	TUC	CR	Fe	Fe	13011-21070
			Oil	75.0	2.0	2.75	E-BC16	SR	GN	GN			
<b>SWT10229ZY</b>	4	1st		75.0	0.8	2.5	BF-IB	SR	GN	GN	13011-21100		
		2nd	75.0	1.0	2.3	T1	SR	Fe	Fe	13011-21130			
		Oil	75.0	1.5	2.0	NIFF-H	SR	Cr	Fe				
1,496	Prius Aqua Vitz/Yaris Corolla Fielder	<b>TCC-S-0861</b>	4	1st	75.0	1.0		BF	SR	GN	GN	13011-21111	
				2nd	75.0	1.0		T1	SR	Cr	Fe		
				Oil	75.0	2.0		NIFF-H	SR	GN	GN		

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
<b>1NZ-FE-2</b>	1,497	Corolla Premio Vitz Auris	<b>SWT10253ZZ</b>	4	1st 2nd Oil	75.0 75.0 75.0	1.0 1.2 2.0	2.3 2.8 2.5	BF TUC NIFF-H	SR CR SR	GN Fe GN	GN Fe GN	13011-21091
<b>1NZ-FE</b>	1,497	Corolla Premio Allion	<b>SWT10256ZZ</b>	4	1st 2nd Oil	75.0 75.0 75.0	1.0 1.2 1.5	2.3 2.8 2.0	BF TUC NIFF-H	SR CR SR	GN Fe Cr	GN Fe Fe	13011-21080
<b>2A-U 2A-LU</b>	1,295	Tercel Corsa Corolla	<b>SWT10068ZX</b>	4	1st 2nd Oil	76.0 76.0 76.0	2.0 2.0 4.0	2.85 3.7 3.0	BF T1 NIFF-S	SR CR SR	Cr Fe Cr	Fe Fe Fe	13011-14010 13011-14020 13011-14021
<b>3P 4P</b>	1,350	Hi Ace Corona Van Toyo Ace	<b>SWT10009ZZ</b>	4	1st 2nd Oil	76.6 76.6 76.6	2.0 2.0 4.0	3.5 3.5 3.3	T1 T1 NIFF-S	CR CR SR	Cr Fe Cr	Fe Fe Fe	13011-23030
<b>1A-U 3A-U</b>	1,452	Corona Tercel Corolla Sprinter Corsa	<b>SWT10078ZX</b>	4	1st 2nd Oil	77.5 77.5 77.5	1.5 1.5 2.8	2.85 3.4 2.8	BF T1 NIFF-S	SR CR SR	Cr Fe Cr	Fe Fe Fe	13011-15010 13011-15011 13011-15020 13011-15021 13011-15031
<b>2R</b>	1,490	Corona Stout Hi Lux Toyo Ace Bus	<b>SWT10014ZZ</b>	4	1st 2nd Oil	78.0 78.0 78.0	2.0 2.5 4.0	3.7 3.6 3.05	T1 TUC NIFF-S	CR CR SR	Cr Cr Cr	Fe Fe Fe	13011-31010 13011-31030 13011-31040
<b>5A</b>	1,498	Corolla Sprinter Carina	<b>SWT10161ZZ</b>	4	1st 2nd Oil	78.7 78.7 78.7	1.5 1.5 3.0	2.65 3.5 2.8	BF T1 NIFF-S	SR CR SR	Cr Fe Cr	Fe Fe Fe	13011-15050
<b>5A-F 5A-FE</b>	1,498	Corolla	<b>SWT10181ZZ</b>	4	1st 2nd Oil	78.7 78.7 78.7	1.2 1.5 3.0	2.85 3.5 2.8	BF T1 NIFF-S	SR CR SR	Cr Fe Cr	Fe Fe Fe	13011-15100 13011-15120
<b>8A-FE</b>	1,342	Vios	<b>SWT10266ZZ</b>	4	1st 2nd Oil	78.7 78.7 78.7	1.2 1.5 3.0	2.7 3.0 2.7	BF T1 NIFF-S	SR CR SR	GN Fe GN	GN Fe GN	13011-15130
<b>1ZZ-FE</b>	1,794	Corolla Vista	<b>SWT10183ZZ</b>	4	1st 2nd Oil	79.0 79.0 79.0	1.2 1.2 3.0	2.65 3.2 2.55	BF TUC NIFF-S	SR CR SR	Cr Fe Cr	Fe Fe Fe	13011-22030 13011-22040 13011-22100 13011-22111 13011-22200 13011-22220 13011-22221 13011-22230 13011-22090 13011-0D010
<b>3ZZ-FE</b>	1,598	Corolla Avensis											
<b>1ZZ-FE</b>	1,794	Corolla Vista	<b>SWT10183ZY</b>	4	1st 2nd Oil	79.0 79.0 79.0	1.2 1.2 3.0	2.7 3.2 2.55	BF TUC NIFF-S	SR CR SR	GN Fe GN	GN Fe GN	13011-22140
<b>3ZZ-FE</b>	1,598	Corolla Avensis											
<b>3ZZ-FE</b>	1,598	Corolla Avensis	<b>SDT10267ZZ</b>	4	1st 2nd Oil	79.0 79.0 79.0	1.2 1.2 2.0	2.7 2.9 2.75	BF TUC E-BC16	SR SR SR	GN Fe GN	GN Fe GN	13011-22240
<b>T</b>	1,407	Corolla 1400 Carina 1400 Sprinter	<b>SWT10039ZZ</b>	4	1st 2nd Oil	80.0 80.0 80.0	2.0 2.0 4.0	3.8 3.8 3.8	BF T1 NIFF-S	CR CR SR	Cr Fe Cr	Fe Fe Fe	13011-25010 13011-25020 13011-25032 13011-25041

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference	
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower		
<b>12R 12R-J</b>	1,587	Corona	<b>SWT10042ZY</b>	4	1st	80.5	2.0	3.9	BF	CR	Cr	Fe	13011-31050	
		Hi Lux			2nd	80.5	2.0	3.7	T1	CR	Fe	Fe	13011-31051	
		Hi Ace			Oil	80.5	4.0	3.75	NIFF-S	SR	Cr	Fe	13011-31060	
		Toyo Ace											13011-31061	
												13011-31070		
												13011-31090		
<b>1S-U</b>	1,832	Carina	<b>SWT10080ZZ</b>	4	1st	80.5	1.5	3.25	BF	SR	Cr	Fe	13011-63010	
		Cerica			2nd	80.5	1.5	3.65	T1	CR	Fe	Fe	13011-63011	
		Mark II			Oil	80.5	4.0	3.25	NIFF-S	SR	Cr	Fe	13011-63020	
		Chaser											13011-63030	
		Cresta										13011-63031		
<b>5K 5K-U 5K-J</b>	1,496	Corona Van	<b>SWT10099ZZ</b>	4	1st	80.5	1.5	3.1	BF	SR	GN	GN	13011-13040	
		Corolla Van			2nd	80.5	1.5	3.65	T1	CR	Fe	Fe	13011-13050	
		Carina Van			Oil	80.5	4.0	3.25	NIFF-S	SR	GN	GN	13011-13090	
		Lite Ace Van												
		Town Ace Van												
<b>7K-E</b>	1,781	Lite Ace Van	<b>SWT10169ZY</b>	4	1st	80.5	1.5	3.1	BF	SR	GN	GN	13011-13100	
		Town Ace Van			2nd	80.5	1.5	3.6	TUC	CR	Cr	Fe	13011-13110	
		Town Ace			Oil	80.5	4.0	2.55	NIFF-S	SR	GN	GN	13011-13120	
		Lite Ace Truck												
<b>1ZR-FE</b>	1,598	Corolla Premio	<b>SWT10232ZZ</b>	4	1st	80.5	1.0	2.9	BF-IB	SR	GN	GN	13011-37160	
					2nd	80.5	1.0	2.5	TUC	SR	Fe	Fe	13011-37140	
<b>2ZR-FE</b>	1,797	Ist			Oil	80.5	1.5	1.95	NIFF-H	SR	Cr	Fe	Fe	13011-37090
		Noah												13011-37130
		Voxy												
<b>3ZR-FE 3ZR-FAE</b>	1,986	RAV4	<b>SDT10257ZZ</b>	4	1st	80.5	1.2	2.9	BF-IB	SR	GN	GN	13011-37210	
		Corolla			2nd	80.5	1.0	2.5	TUC	SR	Fe	Fe		
		Lexus NX	Oil	80.5	2.0	2.75	E-BC16	SR	GN	GN				
		C-HR												
		Avensis	<b>SWT10269ZZ</b>	4	1st	80.5	1.2	2.7	BF	SR	GN	GN	13011-37330	
	Voxy	2nd			80.5	1.0	2.5	TUC	SR	Fe	Fe			
		Noah	Oil	80.5	2.0	2.2	NIFF-H	SR	GN	GN	GN			
<b>2ZR-FE</b>	1,797	Corolla AXIO	<b>SDT10268ZZ</b>	4	1st	80.5	1.0	2.9	BF-IB	SR	GN	GN	13011-0T060	
		Corolla Fielder			2nd	80.5	1.0	2.5	TUC	SR	Fe	Fe		
		Auris			Oil	80.5	2.0	2.75	E-BC16	SR	GN	GN		
		Allion												
		Premio												
Yaris														
Matrix														
Scion XD														
<b>M20A-FKS</b>	1,986	Corolla	<b>SWT10271ZZ (TCC-Q-0785)</b>	4	1st	80.5	1.2	2.7	BF	SR	GN	GN	13011-24040	
		UX200			2nd	80.5	1.2	2.7	TUC	SR	Fe	Fe	13011-F2010	
		UX250 Hybrid			Oil	80.5	2.0	2.2	NIFF-H	SR	GN	GN	23011-F2010	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>4A-L</b> <b>4A-LC</b> <b>4A-GEU</b>	1,587	Corolla Sprinter Trueno Corolla Levin Corona GT Carina GT	<b>SWT10108ZZ</b>	4	1st	81.0	1.5	3.1	BF	SR	Cr	Fe	13011-16010
					2nd	81.0	1.5	3.5	TUC	CR	Fe	Fe	13011-16011
					Oil	81.0	2.8	2.8	NIFF-H	SR	GN	GN	13011-16031 13011-16032 13011-16030 13011-16050 13011-16070
<b>4A-F</b> <b>4A-FE</b>	1,587	Corolla Sprinter Carina Corona Premio	<b>SWT10142ZZ</b>	4	1st	81.0	1.5	2.7	BF	SR	GN	GN	13011-16140
					2nd	81.0	1.5	3.4	T1	CR	Fe	Fe	13011-16150
					Oil	81.0	3.0	2.85	NIFF-H	SR	GN	GN	13011-16120
<b>4A-GZELU</b>	1,587	Corolla Levin Sprinter Trueno	<b>SWT10145ZZ</b>	4	1st	81.0	1.5	3.1	BF	SR	GN	GN	13011-16050
					2nd	81.0	1.5	3.4	TUC	CR	Cr	Fe	13011-16090
					Oil	81.0	2.8	2.8	NIFF-H	SR	GN	GN	13011-16180
<b>4A-GEU</b>	1,587	Corolla Levin Sprinter Trueno Carina GT	<b>SWT10101ZZ</b>	4	1st	81.0	1.5	3.1	BF	SR	Cr	Fe	13011-16050
					2nd	81.0	1.5	3.5	TUC	CR	Fe	Fe	13011-16070
			<b>SWT10150ZZ</b>	4	1st	81.0	1.2	2.9	BF	SR	GN	GN	13011-16200
					2nd	81.0	1.5	3.4	TUC	CR	Cr	Fe	
<b>4A-FE</b>	1,587	Corolla Carina	<b>SWT10156ZZ</b>	4	1st	81.0	1.2	2.9	BF	SR	GN	GN	13011-16280
					2nd	81.0	1.5	3.4	T1	CR	Fe	Fe	13011-16290
<b>7A-FE</b>	1,762	Premio Sprinter Caldina			Oil	81.0	3.0	2.85	NIFF-H	SR	GN	GN	13011-16300 13011-16320 13011-16340
<b>2ZZ-FE</b> <b>2ZZ-GE</b>	1,796	Corolla Allex	<b>SWT10196ZZ</b>	4	1st	82.0	1.2	2.85	BF	SR	Cr	Fe	13011-88601
					2nd	82.0	1.2	3.05	TUC	CR	Fe	Fe	
					Oil	82.0	3.0	3.2	NIFF-S	SR	Cr	Fe	
<b>4S</b>	1,838	Caldina Camry Vista	<b>SWT10123ZZ</b>	4	1st	82.5	1.5	3.05	BF	SR	Cr	Fe	13011-74110-1
					2nd	82.5	1.5	3.8	T1	CR	Fe	Fe	13011-74120-1
					Oil	82.5	4.0	2.9	NIFF-S	SR	Cr	Fe	13011-74121-1
<b>5M</b> <b>5M-E</b> <b>5M-EU</b>	2,759	Celica XX Crown	<b>SWT10072ZX</b>	6	1st	83.0	2.0	3.05	BF	SR	Cr	Fe	13011-43010
					2nd	83.0	2.0	3.8	T1	CR	Fe	Fe	13011-43030
					Oil	83.0	4.0	3.25	NIFF-S	SR	Cr	Fe	
<b>5M-GE</b> <b>5M-EU</b>	2,759	Crown Soarer 2800GT Celica XX	<b>SWT10079ZZ</b>	6	1st	83.0	1.5	3.1	BF	SR	GN	GN	13011-43050
					2nd	83.0	1.5	3.8	T1	CR	Fe	Fe	13011-43080
					Oil	83.0	4.0	2.9	NIFF-S	SR	Cr	Fe	
<b>7M-GE</b> <b>7M-GTE</b>	2,954	Soarer Crown	<b>SWT10115ZY</b>	6	1st	83.0	1.5	3.1	BF	SR	GN	GN	13011-42010
					2nd	83.0	1.5	3.7	TUC	HB	Cr	Fe	13011-42011
					Oil	83.0	4.0	2.85	NIFF-S	SR	GN	GN	
<b>4GR-E30</b>	2,499	Crown Mark X Lexus IS250	<b>SDT10225ZZ</b>	V6	1st	83.0	1.2	2.7	BF	SR	GN	GN	13011-31220
					2nd	83.0	1.2	2.7	B1-TUC	SR	Cr	Fe	13011-31260
					Oil	83.0	2.0	2.75	E-BC16	SR	GN	GN	13011-31270

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>2S-ELU</b>	1,995	Vista Camry	<b>SWT10088ZZ</b>	4	1st	84.0	1.5	3.45	BF	SR	Cr	Fe	13011-74010
					2nd	84.0	1.5	3.8	T1	CR	Fe	Fe	13011-74020
					Oil	84.0	4.0	3.3	NIFF-S	SR	Cr	Fe	13011-74040
<b>21R</b>	1,972	Corona 2000	<b>SWT10067ZX</b>	4	1st	84.0	2.0		BF	SR	GN	GN	13011-37010
					2nd	84.0	2.0	4.0	T1	CR	Cr	Fe	
					Oil	84.0	4.0	3.25	NIFF-S	SR	Cr	Fe	
		Celica Liftback Chaser Mark II	<b>SWT10076ZZ</b>	4	1st	84.0	1.5	3.45	BF	SR	Cr	Fe	13011-37030
					2nd	84.0	2.0	4.0	T1	CR	Cr	Fe	13011-37050
					Oil	84.0	4.0	3.25	NIFF-S	SR	Cr	Fe	13011-37060
<b>21R 21R-C</b>	1,972	Cressida Mark II	<b>SWT10102ZZ</b>	4	1st	84.0	1.5	3.1	BF	SR	GN	GN	13011-37070
					2nd	84.0	1.5	3.8	T1	CR	Cr	Fe	13011-37071
					Oil	84.0	4.0	3.05	NIFF-S	SR	GN	GN	
<b>2T 2T-C 12T</b>	1,588	Corona 1600 Celica Corolla 1600ST	<b>SWT10040ZZ</b>	4	1st	85.0	2.0	4.0	BF	CR	Cr	Fe	13011-26020
					2nd	85.0	2.0	4.0	T1	CR	Fe	Fe	13011-26041
					Oil	85.0	4.0	3.25	NIFF-S	SR	Cr	Fe	13011-26040 13011-27020
<b>2T 3T</b>	1,588	Corona 1600 Corona 1800	<b>SWT10059ZZ</b>	4	1st	85.0	1.5	3.25	BF	SR	Cr	Fe	13011-28010
					2nd	85.0	1.5	3.8	T1	CR	Fe	Fe	13011-28011
	1,770	Camry Celica			Oil	85.0	4.0	3.25	NIFF-S	SR	Cr	Fe	13011-28020 13011-28030 13011-28071
<b>6R</b>	1,707	Corona RT61 · 71 · 77 RT84 · 94 RX10 · 20 · 26 RX16V RT88V	<b>SWT10019ZZ</b>	4	1st	86.0	2.0	3.9	T1	CR	Cr	Fe	13011-31010
					2nd	86.0	2.5	3.9	T1	CR	Cr	Fe	13011-33020
					Oil	86.0	4.0	3.25	NIFF-S	SR	Cr	Fe	13011-33021 13011-33022 13011-33030
<b>7R</b>	1,591	Corona RT60 · 70 · 76											
<b>8R</b>	1,858	Corona MARK II RT62K RT72K RT72S											

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference		
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower			
<b>1Y</b>	1,626	Master Ace Hi Ace Wagon	<b>SWT10090ZY</b>	4	1st	86.0	1.5	3.45	BF	SR	Cr	Fe	13011-71010		
					2nd	86.0	1.5	4.0	T1	CR	Cr	Fe	13011-71020		
<b>2Y</b>	1,812	Town Ace Lite Ace			Oil	86.0	4.0	3.25	NIFF-S	SR	Cr	Fe	13011-71030		
													13011-72020		
<b>3Y</b>	1,998	Mark II Van Vista											13011-74070-A		
													13011-74072		
<b>3S-FE</b>	1,998	Camry Carina Corona											13011-74091		
													13011-74280		
													13011-74080		
													13011-74081		
<b>3S-F 3S-FE</b>	1,998	Ipsum Vista Camry Corona	<b>SWT10119ZZ</b>	4	1st	86.0	1.5	3.25	BF	SR	Cr	Fe	13011-74070		
					2nd	86.0	1.5	3.8	T1	CR	Fe	Fe	13011-74072		
					Oil	86.0	4.0	3.25	NIFF-S	SR	Cr	Fe	13011-74080		
													13011-74081		
												13011-74091			
<b>1AZ-FE 1AZ-FSE</b>	1,998	RAV 4 Corolla Runx Premio Allion Caldina	<b>SWT10186ZZ</b>	4	1st	86.0	1.2	2.7	BF	SR	GN	GN	13011-28120		
					2nd	86.0	1.2	3.1	TUC	CR	Fe	Fe			
					Oil	86.0	2.0	2.5	NIFF-H	SR	GN	GN			
		Wish Avencis Noah			<b>SWT10176ZY</b>	4	1st	86.0	1.2	2.9	BF	SR	GN	GN	13011-28130
							2nd	86.0	1.2	2.9	TUC	SR	GN	GN	
							Oil	86.0	3.0	2.75	NIFF-S	SR	GN	GN	
<b>1TR-FE 1AZ-FSE(D4)</b>	1,998	Hi Ace Van Toyo Ace Hi Ace Dyna	<b>SDT10185ZZ</b>	4	1st	86.0	1.2	2.7	BF	SR	GN	GN	13011-75100		
					2nd	86.0	1.2	3.1	TUC	CR	Fe	Fe	13011-28200		
					Oil	86.0	2.0	2.75	E-BC16	SR	GN	GN			
<b>1RZ-FE</b>	1,998	Hi Ace	<b>SWT10125ZZ</b>	4	1st	86.0	1.75	3.3	BF	SR	GN	GN	13011-75020		
					2nd	86.0	1.5	3.05	TUC	SR	Cr	Fe	13011-75080		
					Oil	86.0	4.0	2.8	NIFF-S	SR	GN	GN			
<b>1JZ-GE</b>	2,491	Crown Aristo Supra Soarer	<b>SWT10134ZZ</b>	6	1st	86.0	1.5	3.3	BF	SR	GN	GN	13011-46040		
					2nd	86.0	1.5	3.8	TUC	CR	Cr	Fe	13011-46041		
					Oil	86.0	4.0	2.9	NIFF-S	SR	GN	GN			
<b>2JZ-GE 2JZ-GTE</b>	2,997	Lexus GS300 Mark II Chaser Cresta													
<b>1JZ-GE</b>	2,491	Chaser Tourers	<b>SWT10216ZZ</b>	6	1st	86.0	1.5	3.25	BF	SR	Cr	Fe	13011-46030		
					2nd	86.0	1.5	3.6	T1	CR	Fe	Fe			
					Oil	86.0	4.0	2.8	NIFF-S	SR	GN	GN			
<b>1JZ-GTE</b>	2,491		<b>SWT10249ZZ</b>	6	1st	86.0	1.2	3.1	BF	SR	GN	GN	13011-88410		
					2nd	86.0	1.5	3.6	T1	CR	Fe	Fe			
					Oil	86.0	4.0	2.8	NIFF-S	SR	GN	GN			



Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>3S-GTE</b> <b>3S-GE</b>	1,998	Celica 2000GT Caldina MR2 Camry Vista	<b>SWT10141ZZ</b>	4	1st	86.0	1.2	3.3	BF	SR	Cr	Fe	13011-88363
					2nd	86.0	1.5	3.6	TUC	CR	Fe	Fe	13011-88380
					Oil	86.0	4.0	3.25	NIFF-S	SR	Cr	Fe	
<b>3S-GTE</b>	1,998	Caldina Turbo Celica Turbo MR2 Turbo	<b>SWT10255ZZ</b>	4	1st	86.0	1.2	3.3	BF-IB	SR	GN	GN	13011-88480
					2nd	86.0	1.5	3.6	TUC	CR	Fe	Fe	
					Oil	86.0	4.0	2.8	NIFF-S	SR	GN	GN	
<b>3S-FE</b>	1,998	Camry Vista Corona Caldina Ipsum	<b>SWT10162ZY</b>	4	1st	86.0	1.2	2.9	BF	SR	Cr	Fe	13011-74340
					2nd	86.0	1.2	3.4	TUC	CR	Fe	Fe	
					Oil	86.0	3.0	2.85	NIFF-S	SR	Cr	Fe	
<b>3S-FSE</b>	1,998	Vista Nadia	<b>TCC-Q-0744</b>	4	1st	86.0	1.2	2.9	BF	SR	GN	GN	13011-74400
					2nd	86.0	1.2	3.4	T1	CR	Cr	Fe	
					Oil	86.0	2.0	2.75	E-BC16	SR	GN	GN	
<b>2JZ-D4</b>	2,997	Crown Mark II Chaser Cresta Lexus GS300	<b>SDT10215ZZ</b>	6	1st	86.0	1.2	2.7	BF	SR	GN	GN	13011-46060
					2nd	86.0	1.2	3.4	T1	CR	Cr	Fe	13011-46061
					Oil	86.0	2.0	2.75	E-BC16	SR	GN	GN	
<b>4U-GSE</b>	1,998	86 FR-S(SCION) FT-86	<b>SWT10261ZZ</b>	4	1st	86.0	1.2	2.7	BF	SR	GN	GN	SU003-00145
					2nd	86.0	1.0	2.7	TUC	SR	Fe	Fe	12033-AC300
					Oil	86.0	2.0	2.45	NIFF-H	SR	PC	W	
<b>5S-FE</b> <b>5S-FNE</b>	2,163	Scepter Camry Harrier Mark II	<b>SWT10133ZZ</b>	4	1st	87.0	1.5	3.5	BF	SR	Cr	Fe	13011-74261
					2nd	87.0	1.5	3.6	T1	CR	Cr	Fe	13011-74290
					Oil	87.0	4.0	3.05	NIFF-S	SR	GN	GN	13011-74260 13011-74300
			<b>SWT10149ZZ</b>	4	1st	87.0	1.5	3.5	BF	SR	Cr	Fe	13011-74150
					2nd	87.0	1.5	3.6	T1	CR	Cr	Fe	
					Oil	87.0	3.0	2.85	NIFF-S	SR	Cr	Fe	
			<b>SWT10166ZZ</b>	4	1st	87.0	1.2	2.9	BF	SR	Cr	Fe	13011-74380
					2nd	87.0	1.2	3.4	TUC	CR	Fe	Fe	13011-74370
					Oil	87.0	3.0	2.75	NIFF-H	SR	GN	GN	13011-74410
<b>3VZ-E</b> <b>3VZ-FE</b>	2,958	Camry Hi Lux Windom Cepter Lexus ES300	<b>SWT10144ZZ</b>	V6	1st	87.5	1.5	3.3	BF	SR	GN	GN	13011-62060
					2nd	87.5	1.5	3.8	T1	CR	Fe	Fe	13011-65021
					Oil	87.5	4.0	2.85	NIFF-S	SR	GN	GN	
			<b>SWT10148ZZ</b>	V6	1st	87.5	1.5	3.3	BF	SR	GN	GN	13011-62040
					2nd	87.5	1.5	3.8	T1	CR	Fe	Fe	
					Oil	87.5	3.0	2.9	NIFF-S	SR	Cr	Fe	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
<b>1MZ-FE</b> <b>2MZ-FE</b>	2,995	Camry	<b>SWT10177ZY</b>	V6	1st	87.5	1.2	2.85	BF	SR	Cr	Fe	13011-20020
	2,496	Lexus ES300			2nd	87.5	1.2	3.4	TUC	CR	Fe	Fe	13011-20010
		Windom Harrier Mark II			Oil	87.5	3.0	2.85	NIFF-H	SR	GN	GN	13011-20012 13011-20050
<b>1UZ-FE</b>	3,969	Crown Celsior Majesta Soarer Lexus	<b>SWT10147ZZ</b>	V8	1st	87.5	1.5	3.1	BF	SR	GN	GN	13011-50040
					2nd	87.5	1.5	3.7	TUC	CR	Fe	Fe	
					Oil	87.5	3.0	2.85	NIFF-H	SR	GN	GN	
<b>3GR-D4</b> <b>3GR-FE</b> <b>3GR-FSE</b>	2,994	Mark X	<b>SDT10254ZZ</b>	V6	1st	87.5	1.2	2.7	BF-IB	SR	GN	GN	13011-31170
		Crown			2nd	87.5	1.2	2.7	TUC	SR	Fe	Fe	13011-31171
		GS300			Oil	87.5	2.0	2.75	E-BC16	SR	GN	GN	
<b>5R</b> <b>5R-U</b>	1,994	Crown	<b>SWT10069ZY</b>	4	1st	88.0	2.0	4.2	BF	CR	Cr	Fe	13011-44010
		RS50			2nd	88.0	2.5	4.2	T1	CR	Fe	Fe	13011-44011
		RS50B			Oil	88.0	4.0	3.3	NIFF-S	SR	Cr	Fe	13011-44030
		Dyna											13011-44031
		RK171											13011-44032
RK171V-B									13011-44040				
RK176-H										13011-44041			
RK176V-HB										13011-44042			
Stout										13011-44043			
RK101										13011-44060			
RK101-K										13011-44061			
Toyo Ace										13011-44062			
										13011-44063			
										13011-44073			
<b>16R</b> <b>16R-B</b> <b>16R-U</b>	1,808	Corona	<b>SWT10043ZZ</b>	4	1st	88.5	2.0	4.2	BF	CR	Cr	Fe	13011-34012
		Carina			2nd	88.5	2.5	4.2	T1	CR	Cr	Fe	13011-34013
		Corona Van			Oil	88.5	4.0	3.85	NIFF-S	SR0.125	Cr	Fe	13011-34020
		Celica										13011-34021	
		Mark II										13011-34022	
<b>18R</b> <b>18R-B</b> <b>18R-U</b>	1,968	Stout										13011-34023	
												13011-34030	
												13011-34050	
												13011-38010	
												13011-38020	
<b>19R</b>	1,968												
<b>20R</b>	2,189												
<b>20R</b>	2,189	Coaster											

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference					
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower						
<b>2AZ-FE</b> <b>2AZ-FSE</b>	2,362	Harrier Kluger Camry Ipsum Estima RAV 4	<b>SDT10172ZZ</b>	4	1st	88.5	1.2	2.7	BF	SR	Cr	Fe	13011-28100					
					2nd	88.5	1.2	3.1	TUC	CR	Fe	Fe	13011-28141					
					Oil	88.5	2.0	2.75	E-BC16	SR	GN	GN	13011-28180					
				<b>SWT10182ZZ</b>	4	1st	88.5	1.2	2.7	BF	SR	Cr	Fe	13011-28101				
						2nd	88.5	1.2	3.2	TUC	CR	Fe	Fe	13011-28102				
						Oil	88.5	2.0	2.45	NIFF-H	SR	GN	GN					
<b>2AZ-FE</b> <b>2AZ-FSE</b>	2,362	RAV4 Mark X Vellfire	<b>SDT10200ZZ</b>	4	1st	88.5	1.0	2.7	BF	SR	GN	GN	13011-28160					
					2nd	88.5	1.0	2.7	TUC	SR	Fe	Fe	13011-28161					
					Oil	88.5	2.0	2.75	E-BC16	SR	GN	GN	13011-28190					
													13011-0H040					
													13011-0H041					
													13011-28240					
<b>1AR-FE</b>	2,671	Lexus RX270	<b>SDT10226ZZ</b>	4	1st	90.0	1.0	2.9	BF-IB	SR	GN	GN	13011-36020					
					2nd	90.0	1.0	2.7	TUC	SR	Fe	Fe	13011-36020-A					
					Oil	90.0	2.0	2.75	E-BC16	SR	GN	GN	13011-36030					
<b>2AR-FE</b> <b>2AR-FSE</b>	2,493	Lexus ES Lexus IS Camry Crown Hybrid												13011-36050				
														13011-36060				
														13011-36070				
<b>F</b>	3,878	Truck FA80 FA80D FA90 FA90D Land Cruiser FJ40 FJ43 FJ45V 2FQ10 Bus FB80 FB100	<b>SWT10026ZZ</b>	6	1st	90.0	3.0	3.7	T1	CR	Cr	Fe	13011-69021					
					2nd	90.0	3.0	3.7	T1	CR	Fe	Fe	13011-60011					
					Oil 1	90.0	4.0	3.9	NIFF-S	SR	Cr	Fe						
					Oil 2	90.0	4.0	3.7	C1	CR	Fe	Fe						
					<b>F(NEW)</b>	3,878	Truck Bus Land Cruiser	<b>SWT10044ZZ</b>	6	1st	90.0	2.0	4.0	T1	CR	Cr	Fe	13011-60040
										2nd	90.0	2.5	4.0	T1	CR	Fe	Fe	
Oil 1	90.0	4.0	3.9	NIFF-S						SR	Cr	Fe						
					Oil 2	90.0	4.0	4.0	BC3	CR	Fe	Fe						
<b>4Y</b> <b>4Y-E</b>	2,237	Crown Hi Ace Fork Lift	<b>SWT10111ZZ</b>	4	1st	91.0	1.5	3.25	BF-IB	SR	Cr	Fe	13011-73020					
					2nd	91.0	1.5	3.95	TUC	CR	Cr	Fe	13011-73030					
					Oil	91.0	4.0	3.1	NIFF-S	SR	Cr	Fe	13011-73040					
										13011-73042								
<b>22R</b> <b>22R-E</b> <b>22R-EC</b>	2,366	Coaster Celica Corona Hi Lux Hi Ace Land Cruiser			<b>SWT10077ZX</b>	4	1st	92.0	2.0	3.45	BF	SR	Cr	Fe	13011-35010			
							2nd	92.0	2.5	4.2	T1	CR	Fe	Fe	13011-35020			
			Oil	92.0			4.0	3.25	NIFF-S	SR	Cr	Fe	13011-35030					
				<b>SWT10103ZZ</b>	4	1st	92.0	1.5	3.3	BF	SR	Cr	Fe	13011-35040				
						2nd	92.0	1.5	4.0	T1	CR	Cr	Fe	13011-35050				
						Oil	92.0	4.0	3.25	NIFF-S	SR	GN	GN	13011-35060				
												13011-35061						
												13011-35070						

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference	
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower		
<b>3MZ-FE</b>	3,310	Harrier Hybrid Kluger Hybrid Lexus ES330,RX330	<b>SWT10228ZZ</b>	V6	1st	92.0	1.2	2.85	BF	SR	Cr	Fe	13011-0A030	
					2nd	92.0	1.2	3.8	TUC	CR	Fe	Fe		
					Oil	92.0	3.0	2.55	NIFF-S	SR	GN	GN		
			<b>SDT10247ZZ</b>	V6	1st	92.0	1.2	3.1	BF-IB	SR	GN	GN		13011-20061
					2nd	92.0	1.2	3.8	TUC	CR	Fe	Fe		
					Oil	92.0	3.0	2.9	E-BC16	SR	GN	GN		
<b>5P</b>	2,771	Fork Lift	<b>SWT10048ZZ</b>	4	1st	93.0	2.5	3.8	BF	CR	Cr	Fe	13011-96102	
					2nd	93.0	2.5	3.8	T1	CR	Fe	Fe		
					Oil	93.0	4.0	3.9	NIFF-S	SR	Cr	Fe		
<b>5VZ-FE</b>	3,378	Land Cruiser Hi Lux Surf Hi Ace Granvia	<b>SWT10178ZZ</b>	V6	1st	93.5	1.5	3.3	BF	SR	GN	GN	13011-62100	
					2nd	93.5	1.5	4.0	T1	CR	Fe	Fe	13011-62110	
					Oil	93.5	4.0	2.85	NIFF-S	SR	GN	GN	13011-62020	
<b>2F</b>	4,230	Truck FJ55 FJ101 FC22D Land Cruiser	<b>SWT10049ZZ</b>	6	1st	94.0	2.0	4.2	BF	CR	Cr	Fe	13011-61010	
					2nd	94.0	2.5	4.2	T1	CR	Cr	Fe		
					Oil	94.0	4.0	3.85	NIFF-S	SR	Cr	Fe		
<b>3F 3F-E</b>	3,955	Land Cruiser	<b>SWT10106ZY</b>	6	1st	94.0	1.5	3.5	BF	SR	GN	GN	13011-61060	
					2nd	94.0	1.5	4.0	T1	CR	Fe	Fe		
					Oil	94.0	4.0	3.3	NIFF-S	SR	Cr	Fe		
<b>3F(NEW)</b>	3,955	Land Cruiser	<b>SWT10151ZZ</b>	6	1st	94.0	2.0	3.3	BF	SR	GN	GN	13011-61062	
					2nd	94.0	2.0	4.0	T1	CR	Cr	Fe		
					Oil	94.0	4.0	3.25	NIFF-S	SR	GN	GN		
<b>1GR-FE</b>	3,955	Hi Lux Surf 4 Runner Prado	<b>SWT10195ZZ</b>	V6	1st	94.0	1.2	3.25	BF	SR	Cr	Fe	13011-31100	
					2nd	94.0	1.2	3.4	TUC	CR	Fe	Fe	13011-31210	
					Oil	94.0	2.0	2.8	NIFF-H	SR	GN	GN	13011-0P020	
<b>2GR-FE 2GR-FSE</b>	3,459	Harrier Camry Avalon Lexus Estima RAV 4	<b>SDT10194ZY</b>	V6	1st	94.0	1.2	2.9	BF-IB	SR	GN	GN	13011-31140	
					2nd	94.0	1.2	2.9	TUC	SR	Fe	Fe	13011-31141	
					Oil	94.0	2.0	2.75	E-BC16	SR	GN	GN	13011-0P040	
													13011-31130	
13011-31160														
<b>2UZ-FE</b>	4,663	Land Cruiser Lexus LX470 Lexus GX470 Hi Lux Surf 4 Runner Sequoia Tundra	<b>SWT10203ZZ</b>	V8	1st	94.0	1.5	3.3	BF	SR	GN	GN	13011-50140	
					2nd	94.0	1.5	4.0	T1	CR	Fe	Fe	13011-50141	
					Oil	94.0	4.0	2.55	NIFF-S	SR	GN	GN		
			<b>SWT10240ZZ</b>	V8	1st	94.0	1.2	2.9	BF-IB	SR	GN	GN	13011-50162	
					2nd	94.0	1.2	3.9	TUC-RB	CR	Fe	Fe	13011-0F022	
					Oil	94.0	3.0	2.55	NIFF-S	SR	GN	GN	13011-0F010	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>1UR-FSE</b> <b>1UR-FFV</b>	4,608	Land Cruiser	<b>SDT10204ZZ</b>	V8	1st	94.0	1.2	2.9	BF-IB	SR	GN	GN	13011-38080
		Lexus GS460			2nd	94.0	1.2	2.9	TUC	SR	Fe	Fe	13011-38081
Crown Majesta	Oil	94.0			2.0	2.75	E-BC16	SR	GN	GN	13011-38090	13011-38110	
<b>2UR-FSE</b>	4,968												
<b>1UR-FE</b>	4,608	Lexus LS460	<b>SWT10236ZZ</b>	V8	1st	94.0	1.2	2.9	BF-IB	SR	GN	GN	13011-0S011
<b>3UR-FE</b>	5,663	Lexus IS-F			2nd	94.0	1.2	3.4	TUC	CR	Fe	Fe	
		Lexus RCF			Oil	94.0	2.0	2.8	NIFF-H	SR	GN	GN	
<b>2GR-FKS</b>	3,456	Lexus GS350	<b>SWT10233ZZ</b>	V6	1st	94.0	1.2	2.9	BF-IB	SR	GN	GN	13011-0P051
Hi Ace	2nd	94.0			1.2	2.9	TUC	SR	Cr	Fe			
Granvia	Oil	94.0			2.0	2.7	NIFF-H	SR	GN	GN			
Land Cruiser													
		Avalon											
		Camry											
		Highlander											
		Sienna											
		Tacoma											
<b>2TZ-FE</b> <b>2TZ-FZE</b>	2,438	Estima	<b>SWT10127ZZ</b>	4	1st	95.0	1.75	3.65	BF	SR	Cr	Fe	13011-76010
		2nd			95.0	1.5	3.8	T1	CR	Fe	Fe	13011-76050	
		Oil			95.0	4.0	3.25	NIFF-S	SR	GN	GN		
<b>3RZ-FE</b>	2,693	Hi Lux Surf	<b>SWT10139ZZ</b>	4	1st	95.0	1.5	3.5	BF	SR	GN	GN	13011-75040-A
		Land Cruiser Prado			2nd	95.0	1.5	3.45	TUC	SR	Cr	Fe	
		Toyo Ace			Oil	95.0	4.0	3.05	NIFF-S	SR	GN	GN	
<b>2RZ</b>	2,438	Granvia	<b>SWT10245ZZ</b>	4	1st	95.0	1.75	3.3	BF	SR	GN	GN	13011-75060
<b>3RZ-FE</b>	2,693	Hi Ace wagon			2nd	95.0	1.5	3.45	TUC	SR	Cr	Fe	13011-75030
					Oil	95.0	4.0	3.05	NIFF-S	SR	GN	GN	
<b>2TR-FE</b>	2,693	Hi Lux Surf	<b>SDT10193ZY</b>	4	1st	95.0	1.2	2.9	BF	SR	GN	GN	13011-0C030
		Land Cruiser			2nd	95.0	1.2	3.4	TUC	CR	Fe	Fe	13011-75130
		Hi Ace			Oil	95.0	2.0	2.75	E-BC16	SR	GN	GN	13011-75110
		Prado											
<b>2TR-FFV</b>	2,693	Hi Ace Wagon	<b>SDT10213ZZ</b>	4	1st	95.0	1.2	2.9	BF	SR	GN	GN	13011-75150
		Land Cruiser			2nd	95.0	1.2	2.9	TUC	SR	Cr	Fe	
		Prado			Oil	95.0	2.0	2.75	E-BC16	SR	GN	GN	
<b>1FZ-FE</b>	4,477	Land Cruiser	<b>SWT10168ZZ</b>	6	1st	100.0	2.0	3.5	BF	SR	GN	GN	13011-66020
		70 80			2nd	100.0	2.0	3.8	TUC	CR	Cr	Fe	
					Oil	100.0	4.0	3.3	NIFF-S	SR	GN	GN	
		Land Cruiser	<b>SWT10184ZZ</b>	6	1st	100.0	1.75	3.7	BF-IB	SR	GN	GN	13011-66021
		FZJ80G			2nd	100.0	2.0	3.8	TUC	CR	Cr	Fe	
					Oil	100.0	4.0	3.3	NIFF-S	SR	GN	GN	

## ● Diesel-engine Automobiles ● ディーゼル車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>1ND-TV</b>	1,362	Corolla iQ Probox Yaris	<b>SDT1020ZZ</b>	4	1st	73.0	1.5	2.5	BF	SR	GN	GN	13011-33041
					2nd	73.0	1.5	2.45	T1	SR	Cr	Fe	
					Oil	73.0	3.0	3.25	E-BC16	SR	GN	GN	
<b>1ND-TV 2WZ-TV</b>			<b>SDT1026ZZ</b>	4	1st	73.0	1.5	2.5	BF	SR	GN	GN	13011-33052
					2nd	73.0	1.2	2.8	T1	CR	Fe	Fe	
					Oil	73.0	2.0	2.75	E-BC16	SR	GN	GN	
<b>1N-T</b>	1,453	Corolla II Tercel Corsa	<b>SWT10117ZZ</b>	4	1st	74.0	1.5	2.7	BF-K2	SR	GN	GN	13011-55010 13011-55011
					2nd	74.0	1.5	3.2	T1	CR	Cr	Fe	
					Oil	74.0	3.0	2.8	NIFF-S	SR	GN	GN	
<b>1CD-FTV</b>	1,995	Corolla Avencis	<b>SDT10206ZZ</b>	4	1st	82.2	2.0	3.05	BF	SR	Cr	Fe	13011-27030
					2nd	82.2	1.5	2.9	T1	HB	Cr	Fe	
					Oil	82.2	3.0	3.75	E-BC16	CR	Cr	Fe	
<b>1CDA</b>	1,995	Corolla Avencis	<b>SDT10214ZZ</b>	4	1st	82.2	2.0	2.85	BF	SR	Cr	Fe	13011-27040
					2nd	82.2	1.5	2.7	T1	HB	Fe	Fe	
					Oil	82.2	3.0	3.1	E-BC16	SR	GN	GN	
<b>1C 1C-L</b>	1,839	Corona Carina Corolla Sprinter	<b>SDT10081ZX</b>	4	1st	83.0	2.0	3.05	BF-K2	SR	Cr	Fe	13011-64010 13011-64020 13011-64040 13011-64070 13011-64080
					2nd	83.0	2.0	3.8	T1	CR	Cr	Fe	
					Oil	83.0	4.0	4.35	E-BC16	SR	GN	GN	
<b>1C(NEW)</b>	1,839	Corolla	<b>SDT10110ZZ</b>	4	1st	83.0	2.0	3.1	BF-K2	SR	GN	GN	13011-64220 13011-64130
					2nd	83.0	2.0	3.5	T1	CR	Cr	Fe	
					Oil	83.0	3.0	3.15	E-BC16	SR	GN	GN	
<b>1DZ</b>	2,486	Estima Town Ace Camry	<b>SDT10159ZZ</b>	4	1st	86.0	2.0	3.1	BF-K2	SR	GN	GN	13011-78201-71
					2nd	86.0	2.0	3.6	T1	CR	Cr	Fe	
					Oil	86.0	4.0	4.35	E-BC16	SR	GN	GN	
<b>3C-T</b>	2,184	Vista Fork Lift											
<b>1DZ</b>	2,486	Fork Lift	<b>SDT10191ZZ</b>	4	1st	86.0	2.0	3.05	BF-K2	SR	Cr	Fe	13011-78200-71
					2nd	86.0	2.0	3.6	T1-K3	CR	Cr	Fe	
					Oil	86.0	4.0	4.15	E-BC16	SR	GN	GN	
<b>1DZ-II</b>	2,486	Fork Lift	<b>SDT10244ZZ</b>	4	1st	86.0	2.0	3.1	BF-K2	SR	GN	GN	13011-UC010
					2nd	86.0	2.0	3.1	T1	SR	GN	GN	
					Oil	86.0	3.0	3.25	E-BC16	SR	GN	GN	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>2C</b> <b>2C-L</b>	1,974	Town Ace Corona Corolla Carina	<b>SDT10096ZX</b>	4	1st	86.0	2.0	3.05	BF-K2	SR	Cr	Fe	13011-64060
					2nd	86.0	2.0	3.6	T1	CR	Cr	Fe	13011-64110
					Oil	86.0	4.0	4.35	E-BC16	SR	GN	GN	13011-64150
		Caldina Master Ace Daihatsu Delta	<b>SDT10152ZZ</b>	4	1st	86.0	1.75	2.9	BF-K2	SR	GN	GN	13011-64170
					2nd	86.0	2.0	3.6	T1	CR	Cr	Fe	
					Oil	86.0	3.0	3.05	E-BC16	SR	GN	GN	
			<b>SDT10155ZZ</b>	4	1st	86.0	2.0	3.1	BF-K2	SR	GN	GN	13011-64190
					2nd	86.0	2.0	3.6	T1	CR	Cr	Fe	13011-64202
					Oil	86.0	3.0	3.05	E-BC16	SR	GN	GN	13011-64210 13011-64212 13011-64213 13011-64230
<b>1VD-FTV</b>	4,461	Land Cruiser	<b>SDT10239ZZ</b>	V8	1st	86.0	2.0	2.85	BF	SR	Cr	Fe	13011-51031
					2nd	86.0	1.5	2.9	T1	SR	GN	GN	
					Oil	86.0	2.0	2.75	E-BC16	SR	GN	GN	
<b>2AD-FHV</b> <b>2AD-FTV</b>	2,231	Avensis Lexus IS 200d RAV 4	<b>SDT10258ZZ</b>	4	1st	86.0	2.0	2.7	BF-IB	SR	GN	GN	13011-26090
					2nd	86.0	1.5	3.0	T1	HB	Fe	Fe	13011-26100
					Oil	86.0	2.0	2.75	E-BC16	SR	GN	GN	13011-26110
<b>2J</b>	2,481	Dyna JK170DH JK175 JK171DH JK176 JK170B JK171B	<b>SCT10024ZZ</b>	4	1st	88.0	2.5	3.8	BF-K3	HB	Cr	Fe	13011-46021
					2nd	88.0	2.5	3.8	T1	CR	Cr	Fe	
					3rd	88.0	2.5	3.8	TUC	CR	Fe	Fe	
					Oil 1	88.0	4.0	3.8	BC1	CR	Cr	Fe	
					Oil 2	88.0	4.0	3.8	BC1	CR	Fe	Fe	
		Dyna Coaster Fork Lift	<b>SDT10045ZX</b>	4	1st	88.0	2.54	3.8	BF-K3	HB	Cr	Fe	13011-48013
			2nd	88.0	2.5	3.8	T1	CR	Cr	Fe	13011-48021		
			3rd	88.0	2.5	3.8	TUC	CR	Fe	Fe			
			Oil	88.0	4.0	4.35	E-BC16	SR	GN	GN			
<b>H</b>	3,567	Dyna HV15	<b>SCT10025ZZ</b>	6	1st	88.0	2.5	3.8	BF-K3	HB	Cr	Fe	13011-47020
					2nd	88.0	2.5	3.8	T1	CR	Cr	Fe	
					3rd	88.0	2.5	3.8	TUC	CR	Fe	Fe	
					Oil 1	88.0	4.0	3.8	BC1	CR	Cr	Fe	
					Oil 2	88.0	4.0	3.8	BC1	CR	Fe	Fe	
		Dyna HU15	<b>SDT10047ZZ</b>	6	1st	88.0	2.54	3.8	BF-K3	HB	Cr	Fe	13011-47021
					2nd	88.0	2.5	3.8	T1	CR	Cr	Fe	
					3rd	88.0	2.5	3.8	TUC	CR	Fe	Fe	
					Oil	88.0	4.0	4.2	E-BC3	CR	Cr	Fe	
Land Cruiser Dyna HU30 HU45	<b>SDT10051ZZ</b>	6	1st	88.0	2.54	3.8	BF-K3	HB	Cr	Fe	13011-47022		
			2nd	88.0	2.5	3.8	T1	CR	Fe	Fe	13011-47023		
			Oil	88.0	4.0	4.2	E-BC3	CR	Cr	Fe			



Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
<b>L</b>	2,188	Crown	<b>SDT10066ZZ</b>	4	1st	90.0	2.5	3.8	BF	HB	Cr	Fe	13011-54010
		Chaser			2nd	90.0	2.0	4.0	T1	CR	Cr	Fe	13011-54020
		Hi Lux (Truck)			Oil	90.0	4.0	4.2	E-BC3	CR	Cr	Fe	13011-54021
		Hi Ace Blizzard (Jeep)											
<b>L(NEW)</b>	2,188	Crown	<b>SDT10082ZX</b>	4	1st	90.0	2.0	3.5	BF-K2	SR	GN	GN	13011-54030
		Corona Mark II			2nd	90.0	2.0	4.0	T1	CR	Cr	Fe	13011-54031
		Toyo Ace			Oil	90.0	4.0	4.35	E-BC16	SR	GN	GN	13011-54040
		Hi Ace (Expo)											13011-54041
		Blizzard (Jeep)											13011-54042
Hi Lux (Expo)									13011-54080				
<b>2H</b>	3,980	Land Cruiser 3FD3 · 35 · 40	<b>SDT10075ZX</b>	6	1st	91.0	2.54	4.0	BF-K3	HB	Cr	Fe	13011-68010
		FDG			2nd	91.0	2.5	4.0	T1	CR	Cr	Fe	13011-68020
		Bus			Oil	91.0	4.0	4.35	E-BC16	SR	GN	GN	13011-96601
		Coaster											
		Fork Lift Coaster	<b>SDT10107ZZ</b>	6	1st	91.0	2.54	4.0	BF-K3	HB	Cr	Fe	13011-31960-71
					2nd	91.0	2.5	4.0	T1	CR	Cr	Fe	
					3rd	91.0	2.0	4.0	TUC	CR	Cr	Fe	
					Oil	91.0	4.0	4.2	E-BC3	CR	Cr	Fe	
<b>12H-T</b>	3,980	Bus	<b>SDT10112ZZ</b>	6	1st	91.0	2.5	3.5	BF-K3	SR	GN	GN	13011-68030
		Coaster (Export)			2nd	91.0	2.5	4.0	T1	CR	Cr	Fe	
		Land Cruiser			Oil	91.0	4.0	4.2	E-BC3	CR	Cr	Fe	
<b>3UZ-FE</b>	4,292	Lexus LS	<b>TCC-R-0835</b>	V8	1st	91.0	1.2		BF	SR	GN	GN	13011-50170
		Crown Majesta			2nd	91.0	1.2		TUC	SR	Fe	Fe	
		Soarer Celsior			Oil	91.0	3.0		NIFF-H	CR	GN	GN	
<b>2L-T</b> <b>2L-TE</b>	2,446	Crown	<b>SDT10089ZZ</b>	4	1st	92.0	2.0	3.35	BF-K2	SR	GN	GN	13011-54050
		Chaser			2nd	92.0	2.0	3.3	T1	SR	GN	GN	13011-54060
		Corona Mark II			Oil	92.0	4.0	4.35	E-BC16	SR	GN	GN	13011-54061 13011-54100
<b>2KD</b>	2,494	Hi Ace	<b>SDT10180ZZ</b>	4	1st	92.0	2.0	2.9	BF	SR	GN	GN	13011-30030
		Hi Lux			2nd	92.0	1.5	2.9	T1	SR	GN	GN	13011-30031
		Fortuner Innova			Oil	92.0	3.0	3.0	E-BC16	SR	GN	GN	13011-30060
<b>2KD-VNT</b> <b>2KD-FTV</b>	2,494	Hi Ace	<b>SDT10207ZZ</b>	4	1st	92.0	2.0	2.9	BF-K2	SR	GN	GN	13011-30120
		Fortuner			2nd	92.0	1.5	2.9	T1	SR	GN	GN	13011-0L070
					Oil	92.0	3.0	3.0	E-BC16	SR	GN	GN	
<b>1GD</b> <b>2GD</b>	2,754 2,393		<b>SDT10234ZZ</b>	4	1st	92.0	2.0	2.9	BF-K2	SR	GN	GN	13011-11200
					2nd	92.0	1.5	2.9	T1	SR	GN	GN	13011-11201
					Oil	92.0	3.0	3.0	E-BC16	SR	GN	GN	13011-11210 13011-11220 13011-0E010

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>1HZ</b>	4,163	Land Cruiser Coaster	<b>SDT10163ZZ</b>	6	1st	94.0	2.0	3.5	BF-K2	SR	GN	GN	13011-17010
					2nd	94.0	2.0	4.0	T1	CR	Cr	Fe	13011-17011
					Oil	94.0	4.0	4.25	E-BC16	SR	GN	GN	13011-17020 13011-17030
<b>1HD-FTE</b>	4,163	Land Cruiser Coaster	<b>SDT10210ZZ</b>	6	1st	94.0	2.0	3.3	BF	SR	GN	GN	13011-17040
					2nd	94.0	1.5	3.1	TUC	SR	GN	GN	
					Oil	94.0	4.0	4.35	E-BC16	SR	GN	GN	
<b>1PZ</b>	3,469	Land Cruiser	<b>SDT10190ZZ</b>	5	1st	94.0	2.0	3.5	BF-K2	SR	GN	GN	13011-18030
					2nd	94.0	2.0	4.0	T1	CR	Cr	Fe	
					Oil	94.0	4.0	4.35	E-BC16	SR	GN	GN	
<b>B</b>	2,977	Toyo Ace Dyna Coaster Land Cruiser Hino Ranger	<b>SDT10058ZZ</b>	4	1st	95.0	2.5	4.1	BF-K3	HB	Cr	Fe	13011-56011
					2nd	95.0	2.5	4.3	T1	CR	Cr	Fe	
					3rd	95.0	2.5	4.3	TUC	CR	Fe	Fe	
					Oil	95.0	4.5	4.3	E-BC3	CR	Cr	Fe	
<b>11B B(NEW)</b>	2,977	Dyna Toyo Ace	<b>SDT10154ZZ</b>	4	1st	95.0	2.5	3.5	BF-K2	SR	GN	GN	13011-56040
					2nd	95.0	2.0	4.3	T1	CR	Cr	Fe	
<b>3L</b>	2,779	Toyo Ace Hi Lux Hi Ace Van Wagon	<b>SDT10124ZY</b>	4	1st	96.0	2.0	3.35	BF-K2	SR	GN	GN	13011-54120
					2nd	96.0	2.0	4.2	T1	CR	Cr	Fe	
					Oil	96.0	4.0	4.35	E-BC16	SR	GN	GN	
<b>1KZ-TE</b>	2,982	Land Cruiser Hi Lux Surf Hi Ace Wagon Land Cruiser	<b>SDT10137ZY</b>	4	1st	96.0	2.0	3.35	BF-K2	SR	GN	GN	13011-67030
					2nd	96.0	2.0	3.65	TUC	SR	Cr	Fe	
					Oil	96.0	3.0	3.25	E-BC16	SR	GN	GN	
<b>1Z 12Z</b>	2,953	Dyna	<b>SDT10158ZZ</b>	4	1st	96.0	2.0	3.5	BF	SR	GN	GN	13011-78300-71
					2nd	96.0	2.0	4.4	T1	CR	Cr	Fe	
					Oil	96.0	4.0	3.95	E-BC3	CR	Cr	Fe	
<b>1KD-FTV</b>	2,982	Land Cruiser Hi Lux Surf Hi Ace	<b>SDT10175ZY</b>	4	1st	96.0	2.0	3.35	BF-K2	SR	GN	GN	13011-30020
					2nd	96.0	1.5	3.3	T1	SR	GN	GN	13011-30021
					Oil	96.0	3.0	3.0	E-BC16	SR	GN	GN	13011-30022 13011-30040 13011-30050 13011-30051
<b>2Z</b>	3,469	Fork Lift	<b>SDT10179ZZ</b>	4	1st	98.0	2.0	3.5	BF	SR	GN	GN	13011-78700-71
					2nd	98.0	2.0	4.3	T1	CR	Cr	Fe	
					Oil	98.0	4.0	4.35	E-BC16	SR	GN	GN	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>2Z</b> <b>2Z-B</b>		Fork Lift	<b>SDT10259ZZ</b>	4	1st	98.0	2.0	3.5	BF	SR	GN	GN	13011-78701-71 13011-78702-71 13011-UD010
					2nd	98.0	2.0	3.5	T1	SR	GN	GN	
					Oil	98.0	4.0	4.35	E-BC16	SR	GN	GN	
<b>13Z</b>	5,244	Forklift 7FDAU40 Forklift 7FDK40 Forklift 7FDKU40	<b>SDT10264ZZ</b>	6	1st	98.0	2.0	3.5	BF	SR	GN	GN	13011-78760-71
					2nd	98.0	2.0	3.5	T1	SR	GN	GN	
					Oil	98.0	4.0	4.35	E-BC16	SR	GN	GN	
<b>15Z</b>	5,204	Fork Lift For Industrial Machine Light Truck	<b>SDT10260ZZ</b>	6	1st	98.0	2.0	3.5	BF-K2	SR	GN	GN	13011-UE020
					2nd	98.0	2.0	3.5	T1	SR	GN	GN	
					Oil	98.0	4.0	4.35	E-BC16	SR	GN	GN	
<b>5L</b> <b>5L-E</b>	2,985	Hi Ace Van Hi Lux Hi Ace Land Cruiser	<b>SDT10167ZZ</b>	4	1st	99.5	2.0	3.6	BF-K2	SR	GN	GN	13011-54130
					2nd	99.5	1.5	3.7	TUC	SR	GN	GN	
					Oil	99.5	4.0	4.35	E-BC16	SR	GN	GN	
<b>13B</b>	3,431	Dyna Toyo Ace	<b>SDT10136ZX</b>	4	1st	102.0	2.5	4.1	BF	SR	Cr	Fe	13011-58030
					2nd	102.0	2.5	4.3	T1	CR	Cr	Fe	
					Oil	102.0	4.5	4.6	E-BC16	SR	GN	GN	
<b>13B-T</b>	3,431	Land Cruiser 70	<b>SDT10217ZZ</b>	4	1st	102.0	2.5	4.1	BF-K2	HB	Cr	Fe	13011-58040
					2nd	102.0	2.5	4.3	T1	CR	Cr	Fe	
					Oil	102.0	4.5	4.6	E-BC16	CR	Cr	Fe	
<b>14B</b>	3,660	Dyna Toyo Ace Coaster	<b>SDT10135ZZ</b>	4	1st	102.0	2.5	3.7	BF-K2	SR	GN	GN	13011-58050 13011-58070 13011-58072
					2nd	102.0	2.0	4.3	T1	CR	Cr	Fe	
					Oil	102.0	4.0	4.35	E-BC16	SR	GN	GN	
<b>14B-T</b>	3,660	Dyna Toyo Ace	<b>SDT10248ZZ</b>	4	1st	102.0	3.0	3.7	BF-K2	SR	GN	GN	13011-58060
					2nd	102.0	2.0	4.3	T1	CR	Cr	Fe	
					Oil	102.0	4.0	4.35	E-BC16	SR	GN	GN	
<b>N04C-A</b>	4,009	Dyna Toyo Ace	<b>SDT10198ZZ</b>	4	1st	104.0	2.5	3.7	BF	SR	GN	GN	13011-78060 13011-58072
					2nd	104.0	2.0	4.3	T1	CR	Fe	Fe	
					Oil	104.0	4.0	4.35	E-BC16	SR	GN	GN	
<b>N04C</b> <b>W04DT</b>	4,009	Dyna Toyo Ace	<b>SDT10221ZZ</b>	4	1st	104.0	2.806	3.7	BF-K1	SR	GN	GN	13011-78220 S1304-E0281
					2nd	104.0	2.0	4.3	T1	CR	Fe	Fe	
					Oil	104.0	4.0	4.4	E-BC16	SR	GN	GN	
<b>1W</b>	4,009	Dyna Toyo Ace	<b>SDT10209ZZ</b>	4	1st	104.0	2.5	4.3	BF	HB	Cr	Cr	13011-78010 S1304-E0251
					2nd	104.0	2.0	4.3	T1-IC	CR	Fe	Fe	
					Oil	104.0	5.0	4.7	E-BC3	CR	Cr	Fe	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
2D	6,494	Truck DA90 DA90D DA95 DA110 DA110D DA115 DA115C DA116 Bus DB90 DB92 DB95 DB100 DB100C DB102 DB102C DB105 DB105C DR10 DR11 DR15	SDT10028ZX	6	1st	105.0	3.0		BF	SR	GN	GN	13011-77010
					2nd	105.0	3.0	4.2	T1	CR	Cr	Fe	13011-77020
					3rd	105.0	3.0	4.2	Bl-TUC	CR	Fe	Fe	13011-77021
					Oil 1	105.0	5.0	4.6	E-BC3	CR	Cr	Fe	13011-77022
					Oil 2	105.0	5.0	4.2	BC1	CR	Fe	Fe	13011-77023
			SDT10065ZX	6	1st	105.0	3.0		BF	SR	GN	GN	13011-77024
					2nd	105.0	3.0	4.2	T1	CR	Cr	Fe	
					3rd	105.0	3.0	4.2	Bl-TUC	CR	Fe	Fe	
					Oil	105.0	5.0	4.6	E-BC3	CR	Cr	Fe	
15B-F	4,104	Dyna Toyo Ace	SDT10188ZZ	4	1st	108.0	3.0	3.7	BF-K2	SR	GN	GN	13011-58090
					2nd	108.0	2.0	4.3	Bl-TUC	CR	Cr	Fe	
					Oil	108.0	4.0	4.4	E-BC16	SR	GN	GN	
15B-FTE	4,104	Mega Cruiser Toyo Ace Dyna	SDT10189ZZ	4	1st	108.0	3.0	3.7	BF	SR	GN	GN	13011-58110
					2nd	108.0	2.0	3.8	Bl-TUC	CR	Fe	Fe	
					Oil	108.0	4.0	4.4	E-BC16	SR	GN	GN	
S05C	4,899	Toyo Ace Dyna	SDT10199ZZ	4	1st	114.0	2.5	4.3	BF	SR	GN	GN	13011-78031 13011-3731A
					2nd	114.0	2.0	4.3	T1	SR	GN	GN	
					Oil	114.0	4.0	4.35	E-BC16	SR	GN	GN	

## ● Gasoline-engine Automobiles ● ガソリン車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>3EA F6B S-TEC I 0.8L YSE</b>	796	Fino Matiz Tico	<b>SWD20002ZY</b>	3	1st	68.5	1.2	2.5	BF	SR	GN	GN	12140-78B00 94581409
					2nd	68.5	1.5	2.8	T1	CR	Fe	Fe	
					Oil	68.5	2.8	2.88	NIFF-H	SR	GN	GN	
<b>3EA</b>	796	Matiz	<b>SWD20011ZZ</b>	3	1st	68.5	1.2	2.65	BF-IB	SR	Cr	Fe	96325192 (cyl)
					2nd	68.5	1.2	2.8	T1	CR	Fe	Fe	
					Oil	68.5	2.5	2.75	NIFF-H	SR	GN	GN	
<b>4EA</b>	995	Matiz (GM)	<b>SWD20005ZZ</b>	4	1st	68.5	1.2	2.65	BF-IB	SR	Cr	Fe	96325192 (cyl)
					2nd	68.5	1.2	2.8	T1	CR	Fe	Fe	
					Oil	68.5	2.5	2.75	NIFF-H	SR	GN	GN	
<b>NP960</b>	1,498	Leman 1.5L Lanos Espero Cielo Nubica Lacetti	<b>SWD20003ZX</b>	4	1st	76.5	1.5	2.65	BF	SR	Cr	Fe	
					2nd	76.5	1.5	3.2	TUC	CR	Fe	Fe	
					Oil	76.5	3.0	2.85	NIFF-H	SR	GN	GN	
<b>D-TEC 1.6</b>	1,598	Lanos Nubira Espero Aveo 1.6	<b>SWD20004ZZ</b>	4	1st	79.0	1.2	3.05	BF	SR	Cr	Fe	S1220014 93740225(GM)
					2nd	79.0	1.5	3.3	TUC	CR	Fe	Fe	
					Oil	79.0	3.0	3.0	NIFF-S	SR	Cr	Fe	
<b>T18SED</b>	1,796	Excelle 1.8 3BOX RV	<b>SWD20012ZZ</b>	4	1st	80.5	1.2	2.9	BF-IB	SR	GN	GN	93742700
					2nd	80.5	1.2	3.2	TUC	CR	Fe	Fe	
					Oil	80.5	2.0	3.0	NIFF-H	SR	Cr	Fe	
<b>X18XEV</b>	1,796	Optra 1.8	<b>SWD20009ZZ</b>	4	1st	81.6	1.2	3.1	BF-IB	SR	GN	GN	92067238
					2nd	81.6	1.5	3.3	TUC	CR	Fe	Fe	
					Oil	81.6	3.0	2.9	NIFF-S	SR	Cr	Fe	
<b>D-TEC 2.2</b>	2,198	Prince	<b>SWD20006ZZ</b>	4	1st	86.0	1.5	3.45	BF	SR	Cr	Fe	92062027
					2nd	86.0	1.5	3.5	TUC	CR	Fe	Fe	
					Oil	86.0	3.0	3.0	NIFF-S	SR	Cr	Fe	

## ● Diesel-engine Automobiles ● ディーゼル車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>6BB1</b>	5,393	Excavator Fork Lift Generator For Chromard Liner	<b>SDD20007ZX</b>	6	1st	102.0	3.0	3.7	BF	SR	GN	GN	65.02503-8069
					2nd	102.0	2.5	4.4	T1-IC	CR	Fe	Fe	
					Oil	102.0	5.0	4.95	E-BC16	SR	GN	GN	
<b>DB58</b>	5,785	Generator	<b>SDD20008ZZ</b>	6	1st	102.0	3.0	4.4	BF-K1	CR	Cr	Fe	65.02503-8058
					2nd	102.0	2.5	4.4	T1-IC	CR	Fe	Fe	
					Oil	102.0	4.0	4.15	E-BC16	SR	GN	GN	
<b>D1146 DE08</b>	8,071	Truck Bus	<b>SDD20014ZZ</b>	6	1st	111.0	3.35	4.7	BF-K1	HB	Cr	Fe	65.02503-8146
					2nd	111.0	3.0	4.6	T1	CR	Fe	Fe	
					Oil	111.0	4.0	4.25	E-BC16	CR	Cr	W	
<b>D2366</b>	11,051	BV113 Bus Wheel Loader Excavator	<b>SDD20013ZZ</b>	6	1st	123.0	3.35	5.0	BF-K1	HB	Cr	Fe	65.02503-8236 (cyl)
					2nd	123.0	3.0	5.0	T1-IC	CR	Fe	Fe	
					Oil	123.0	4.0	4.65	E-BC16	SR	Cr	Fe	
<b>2848T</b>		Truck Bus	<b>SDD20001ZZ</b>	V8	1st	128.0	3.306	5.2	BF-K1	HB	Cr	Fe	65.02503-8252
					2nd	128.0	3.0	5.2	TUC	CR	Cr	Fe	
					Oil	128.0	5.0	4.8	E-BC16	CR	Cr	Fe	

DAIHATSU  
SUBARU  
HINO  
HONDA  
ISUZU  
KOMATSU  
MAZDA  
MITSUBISHI  
NISSAN  
UD TRUCKS  
SUZUKI  
TOYOTA  
DAEWOO  
HYUNDAI  
KIA  
CHINA  
ASIA  
CHRYSLER  
FORD  
G M  
EUROPE

## ● Gasoline-engine Automobiles ● ガソリン車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>G4HA</b> <b>EPSILON 0.8</b>	798	Atos	<b>SWG30020ZZ</b>	4	1st	63.0	1.2	2.25	BF	SR	Cr	Fe	23040-02511
					2nd	63.0	1.5	2.8	T1-IB	CR	Fe	Fe	23040-02510
					Oil	63.0	2.8	2.75	NIFF-S	SR	Cr	Fe	
<b>G4HC</b> <b>EPSILON 1.0</b>	999	Atos	<b>SWG30018ZZ</b>	4	1st	66.0	1.2	2.25	BF	SR	Cr	Fe	23040-02700
					2nd	66.0	1.2	2.9	T1	CR	Fe	Fe	
					Oil	66.0	2.5	2.75	NIFF-H	SR	GN	GN	
<b>G4HG</b> <b>EPSILON 1.1</b>	1,086	Santro i 10	<b>SWG30031ZZ</b>	4	1st	67.0	1.2	2.3	BF	SR	GN	GN	23040-02820
					2nd	67.0	1.2	2.7	T1	CR	Fe	Fe	
					Oil	67.0	2.5	2.5	NIFF-S	SR	GN	GN	
			<b>SWG30038ZZ</b>	4	1st	67.0	1.2	2.3	BF	SR	GN	GN	23040-02950
					2nd	67.0	1.2	2.8	TUC	CR	Fe	Fe	23040-02955
					Oil	67.0	2.0	2.65	NIFF-H	SR	GN	GN	23040-02970 23040-02AA0
			<b>SWG30051ZZ</b>	4	1st	67.0	1.2	2.3	BF	SR	GN	GN	23040-02980
					2nd	67.0	1.2	2.8	TUC	CR	Fe	Fe	
					Oil	67.0	2.0	2.45	NIFF-H	SR	GN	GN	
<b>G3HA</b> <b>G3HG</b>	814	Atos Eon	<b>SWG30071ZZ</b>	3	1st	67.0	1.2	2.3	BF	SR	GN	GN	23040-05000
					2nd	67.0	1.2	2.8	TUC	CR	Fe	Fe	
					Oil	67.0	2.0	2.65	NIFF-H	SR	GN	GN	
<b>X11</b> <b>G4DG</b>	1,298	Excel 94	<b>SWG30022ZZ</b>	4	1st	71.0	1.5	2.65	BF	SR	Cr	Fe	23040-24010
					2nd	71.0	1.5	3.1	T1	CR	Fe	Fe	
					Oil	71.0	4.0	3.25	NIFF-S	SR	Cr	Fe	
<b>Kappa 1.2</b>	1,197	Atos	<b>SWG30058ZZ</b>	4	1st	71.0	1.0	2.25	BF	SR	Cr	Fe	23040-03000
					2nd	71.0	1.2	2.5	TUC	CR	Fe	Fe	
					Oil	71.0	2.0	1.95	NIFF-H	SR	GN	GN	
	i10 i20 KIA : Picanto KIA : Rio	<b>SWG30058ZY</b>	4	1st	71.0	1.0	2.5	BF	SR	GN	GN	23040-03220	
				2nd	71.0	1.2	2.5	TUC	CR	Fe	Fe		
				Oil	71.0	2.0	2.2	NIFF-H	SR	GN	GN		
<b>G4EA</b> <b>ALPHA 1.3</b> <b>ALPHA 1.3s</b>	1,341	Accent	<b>SWG30016ZZ</b>	4	1st	71.5	1.5	2.65	BF	SR	Cr	Fe	23040-22300
					2nd	71.5	1.5	3.1	T1	CR	Fe	Fe	23040-22351
					Oil	71.5	3.0	2.85	NIFF-H	SR	GN	GN	
	Click	<b>SWG30036ZZ</b>	4	1st	71.5	1.2	2.65	BF-IB	SR	Cr	Fe	23040-22301	
				2nd	71.5	1.2	3.0	TUC	CR	Fe	Fe		
				Oil	71.5	2.0	2.5	NIFF-H	SR	GN	GN		
<b>G4LC</b> <b>Kappa 1.4</b>	1,359	Accent	<b>SWG30069ZZ</b>	4	1st	72.0	1.0	2.25	BF-IB	SR	Cr	Fe	23040-03AA0
					2nd	72.0	1.2	2.6	TUC	CR	Fe	Fe	
					Oil	72.0	2.0	1.95	NIFF-H	SR	GN	GN	
<b>G4AE</b> <b>ALPHA 1.5</b>	1,468	Accent Scoupe	<b>SWG30017ZX</b>	4	1st	75.5	1.5	2.85	BF	SR	Cr	Fe	23040-22010
					2nd	75.5	1.5	3.1	T1	CR	Fe	Fe	23040-22601
					Oil	75.5	3.0	2.75	NIFF-S	SR	Cr	Fe	



Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>G4EK ALPHA 1.5</b>	1,468	Accent Avante	<b>SWG30019ZZ</b>	4	1st	75.5	1.2	2.85	BF	SR	Cr	Fe	23010-26001
					2nd	75.5	1.5	3.1	T1	CR	Fe	Fe	
					Oil	75.5	3.0	2.75	NIFF-S	SR	Cr	Fe	
<b>G4AJ</b>	1,468	Click	<b>SWG30035ZZ</b>	4	1st	75.5	1.2	2.85	BF-IB	SR	Cr	Fe	23040-26002
					2nd	75.5	1.2	3.3	TUC	CR	Fe	Fe	
					Oil	75.5	2.0	2.8	NIFF-H	SR	GN	GN	
<b>G4ED ALPHA 1.6</b>	1,599	Elantra Santa Fe	<b>SWG30030ZZ</b>	4	1st	76.5	1.2	2.85	BF-IB	SR	Cr	Fe	23040-26101
					2nd	76.5	1.2	3.2	TUC	CR	Fe	Fe	
					Oil	76.5	2.5	2.8	NIFF-H	SR	GN	GN	
<b>G4ED ALPHA II 1.6</b>		Click	<b>SWG30034ZZ</b>	4	1st	76.5	1.2	2.85	BF-IB	SR	Cr	Fe	23040-26160 23040-26120
					2nd	76.5	1.2	3.2	TUC	CR	Fe	Fe	
					Oil	76.5	2.0	2.5	NIFF-H	SR	GN	GN	
<b>GAMMA 1.4</b>	1,396	Avante HD	<b>SWG30046ZZ</b>	4	1st	77.0	1.2	2.85	BF-IB	SR	Cr	Fe	23040-2B000 23040-2B600
<b>GAMMA 1.6</b>	1,591				2nd	77.0	1.2	3.05	TUC	CR	Fe	Fe	
					Oil	77.0	2.0	2.55	NIFF-H	SR	Cr	Fe	
<b>G4FC GAMMA 1.6</b>	1,591	Accent Celesta Elantra Verna Solaris i20 ix20	<b>SWG30070ZZ</b>	4	1st	77.0	1.2	2.5	BF-IB	SR	GN	GN	23040-2B800
					2nd	77.0	1.2	3.05	TUC	CR	Fe	Fe	
					Oil	77.0	2.0	2.4	NIFF-H	SR	GN	GN	
<b>G4GR BETA 1.6 J2</b>	1,559	Elantra	<b>SWG30025ZZ</b>	4	1st	77.4	1.2	2.85	BF-IB	SR	Cr	Fe	23040-23100 23040-23150 23040-23912
					2nd	77.4	1.2	3.3	T1	CR	Fe	Fe	
					Oil	77.4	2.5	2.8	NIFF-S	SR	Cr	Fe	
<b>FB</b>	1,793	Spectra 1.8	<b>SWG30040ZZ</b>	4	1st	81.0	1.2	3.3	BF-IB	SR	Cr	Fe	23040-2Y000
					2nd	81.0	1.2	3.4	TUC	CR	Fe	Fe	
					Oil	81.0	2.5	2.85	NIFF-S	SR	Cr	Fe	
<b>2K0 Nu 1.8L</b>	1,797	Elantra 11	<b>SWG30059ZZ</b>	4	1st	81.0	1.0	2.7	BF-IB	SR	GN	GN	23040-2E000
					2nd	81.0	1.2	3.15	TUC-RB	CR	Fe	Fe	
					Oil	81.0	2.0	2.2	NIFF-H	SR	GN	GN	
<b>Nu 2.0L</b>	1,999	Elantra i40 Tucson	<b>SDG30065ZZ</b>	4	1st	81.0	1.0	2.7	BF-IB	SR	GN	GN	23040-2E200
					2nd	81.0	1.2	3.15	TUC-RB	CR	Fe	Fe	
					Oil	81.0	2.0	2.75	E-BC16	SR	GN	GN	
<b>G4DM SIRIUS 1.8D</b>	1,836	Sonata	<b>SWG30032ZZ</b>	4	1st	81.5	1.2	3.1	BF	SR	GN	GN	23040-33430
					2nd	81.5	1.5	3.6	T1	CR	Cr	Fe	
					Oil	81.5	3.0	2.55	NIFF-S	SR	GN	GN	
<b>G4GB BETA 1.8</b>	1,796	Avante Tiburon Elantra	<b>SWG30028ZY</b>	4	1st	82.0	1.2	3.05	BF-IB	SR	Cr	Fe	23040-23000 23040-23050 23040-23200
					2nd	82.0	1.2	3.5	T1	CR	Fe	Fe	
					Oil	82.0	2.5	2.85	NIFF-S	SR	Cr	Fe	
<b>G4GC G4GF BETA 2.0</b>	1,975	Elantra Elantra Touring Coupe Tucson	<b>SWG30054ZZ</b>	4	1st	82.0	1.2	2.85	BF	SR	Cr	Fe	23040-23300 23040-23400
					2nd	82.0	1.2	3.05	TUC	CR	Fe	Fe	
					Oil	82.0	2.0	2.45	NIFF-H	SR	GN	GN	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper /Lower	
<b>G4CR G4RJP SIRIUS 1.6</b>	1,595	Elantra	<b>SWG30021ZZ</b>	4	1st	82.3	1.2	3.1	BF	SR	GN	GN	23040-33030
					2nd	82.3	1.5	3.8	T1	CR	Cr	Fe	
					Oil	82.3	3.0	2.85	NIFF-S	SR	GN	GN	
<b>G4CP 2.0</b>	1,997	Sonata 2.0	<b>SWG30029ZZ</b>	4	1st	85.0	1.5	3.25	BF	SR	Cr	Fe	23040-32800
					2nd	85.0	1.5	3.7	T1	CR	Fe	Fe	
					Oil	85.0	4.0	3.15	NIFF-S	SR	Cr	Fe	
<b>G4CP 2.0 SIRIUS 2.0D</b>	1,997	Sonata 2.0 New Sonata	<b>SWG30027ZZ</b>	4	1st	85.0	1.2	3.1	BF	SR	GN	GN	23040-33110 23040-33140 23040-33150
					2nd	85.0	1.5	3.8	TUC	CR	Cr	Fe	
					Oil	85.0	3.0	2.55	NIFF-S	SR	GN	GN	
<b>THETA 2.0 THETA II 2.0</b>	1,998	NF Sonata 2.0L	<b>SWG30042ZZ</b>	4	1st	86.0	1.2	3.05	BF	SR	Cr	Fe	23040-25000
					2nd	86.0	1.2	3.6	TUC	CR	Fe	Fe	
					Oil	86.0	2.0	2.45	NIFF-H	SR	Cr	Fe	
<b>G4KD</b>	1,975	Sonata Lotze	<b>SWG30042ZY</b>	4	1st	86.0	1.2	2.9	BF	SR	GN	GN	23040-2G000
					2nd	86.0	1.2	3.6	TUC	CR	Fe	Fe	
					Oil	86.0	2.0	2.5	NIFF-H	SR	GN	GN	
<b>G4JS SIRIUS II</b>	2,350	Grace (New) Grandeur Grace Grand Salon	<b>SWG30024ZZ</b>	4	1st	86.5	1.5	3.45	BF	SR	Cr	Fe	23040-32610
					2nd	86.5	1.5	3.8	TUC	CR	Fe	Fe	
					Oil	86.5	4.0	3.3	NIFF-S	SR	Cr	Fe	
<b>G6BA DELTA 2.7</b>	2,656	Delta Hyundai Coupe	<b>SWG30037ZZ</b>	V6	1st	86.7	1.2	3.05	BF-IB	SR	Cr	Fe	23040-37300
					2nd	86.7	1.2	3.6	T1	CR	Fe	Fe	
					Oil	86.7	2.5	2.9	NIFF-H	SR	Cr	Fe	
<b>G6DB LAMBDA 3.3</b>	3,342	Grandeur Azera Santa Fe Sonata	<b>SWG30055ZZ</b>	6	1st	92.0	1.2	3.1	BF-IB	SR	GN	GN	23040-3C150
					2nd	92.0	1.2	3.4	TUC	CR	Fe	Fe	
					Oil	92.0	2.0	2.55	NIFF-H	SR	GN	GN	
<b>H10 G6AU SIGMA G6CU</b>	3,467	Santa Fe XG 350	<b>SWG30056ZZ</b>	6	1st	93.0	1.5	3.3	BF	SR	GN	GN	23040-39800
					2nd	93.0	1.5	3.9	TUC	CR	Cr	Fe	
					Oil	93.0	3.0	2.85	NIFF-S	SR	GN	GN	
<b>Lambda II 3.8</b>	3,778	Grandeur Genesis	<b>SWG30064ZZ</b>	V6	1st	96.0	1.2	3.05	BF-IB	SR	Cr	Fe	23040-3C200
					2nd	96.0	1.2	3.7	TUC	CR	Fe	Fe	
					Oil	96.0	2.0	2.55	NIFF-H	SR	GN	GN	

## ● Diesel-engine Automobiles ● ディーゼル車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>D4FA</b>	1,493	Verna HD65 Truck	<b>SDG30060ZZ</b>	4	1st	75.0	1.75	2.9	BF-IB	SR	GN	GN	23040-2A900
					2nd	75.0	1.75	3.15	T1-IC	CR	Cr	Fe	
					Oil	75.0	3.0	3.0	E-BC16	SR	GN	GN	
<b>D3EA</b>	1,493	Accent LC	<b>SDG30053ZZ</b>	3	1st	83.0	1.93	2.9	BF-K1	SR	GN	GN	
					2nd	83.0	2.0	3.8	T1-RB	CR	Cr	Fe	
					Oil	83.0	3.0	3.25	E-BC16	SR	GN	GN	
<b>D4EA</b>	1,991	Santa Fe 2.0 Tucson Sonata	<b>SDG30043ZZ</b>	4	1st	83.0	1.93	2.9	BF-K1	SR	GN	GN	23040-27950 23040-27920
					2nd	83.0	2.0	3.8	T1-RB	CR	Cr	Fe	
					Oil	83.0	3.0	3.25	E-BC16	SR	GN	GN	
<b>R-Line 2.0</b>	1,995	iX35 Santa Fe Tucson	<b>SDG30066ZZ</b>	4	1st	84.0	2.43	3.05	BF-K1	HB	Cr	Fe	23040-2F930 23040-2F900
					2nd	84.0	2.0	3.6	T1	CR	Fe	Fe	
					Oil	84.0	3.0	3.25	E-BC16	SR	GN	GN	
<b>D6EA</b>	2,959	Veracruz	<b>SDG30072ZX (TCC-P-0712)</b>	V6	1st	84.0	2.5	3.1	BF-K1	SR	GN	GN	23040-3A900
					2nd	84.0	1.75	3.5	T1	CR	Cr	Fe	
					Oil	84.0	3.0	3.25	E-BC16	SR	GN	GN	
<b>R-Line 2.2 D4HB</b>	2,199	Santa Fe Grandeur	<b>SDG30067ZZ</b>	4	1st	85.4	2.45	3.1	BF-K1	HB	Cr	Fe	23040-2F910
					2nd	85.4	2.0	3.5	T1-RB	HB	Fe	Fe	
					Oil	85.4	3.0	3.25	E-BC16	SR	GN	GN	
<b>D4EB</b>	2,188	Santa Fe 2.2 CRDI	<b>SDG30052ZZ</b>	4	1st	87.0	2.5	3.35	BF-K2	HB	Cr	Fe	23040-27940
					2nd	87.0	2.0	3.7	T1	CR	Cr	Fe	
					Oil	87.0	3.0	3.85	E-BC16	CR	Cr	Fe	
			<b>SDG30061ZZ</b>	4	1st	87.0	2.5	3.3	BF-K1	SR	GN	GN	23040-27960
					2nd	87.0	2.0	3.7	T1-IC	HB	Cr	Fe	
					Oil	87.0	3.0	3.25	E-BC16	SR	GN	GN	
<b>D4CB</b>	2,497	H-1 Libero Sorento Starex i 800 Satellite	<b>SDG30049ZZ</b>	4	1st	91.0	2.44	3.3	BF-K2	HB	Cr	Fe	23040-4A900 23040-4A910
					2nd	91.0	2.0	4.0	T1-RB	CR	Cr	Fe	
					Oil	91.0	3.0	3.25	E-BC16	SR	GN	GN	
			<b>SDG30062ZZ</b>	4	1st	91.0	2.5	3.3	BF-K2	SR	GN	GN	23040-4A940
					2nd	91.0	2.0	3.9	T1-IC	CR	Cr	Fe	
					Oil	91.0	3.0	3.25	E-BC16	SR	GN	GN	
<b>D4BF</b>	2,476	Galopper Grace Turbo Starex Turbo	<b>SDG30009ZX</b>	4	1st	91.1	2.5	3.25	BF-K2	SR	Cr	Fe	23040-42850 1110A561 23040-42510
					2nd	91.1	2.0	3.9	T1-K2	CR	Cr	Fe	
					Oil	91.1	4.0	4.35	E-BC16	SR	GN	GN	
<b>D4BA(OLD) 1 ton</b>	2,476	Grace Porter	<b>SDG30003ZX</b>	4	1st	91.1	2.5	3.45	BF	SR	Cr	Fe	23040-42000
					2nd	91.1	2.0	3.8	T1	CR	Cr	Fe	
					Oil	91.1	4.0	4.35	E-BC16	SR	GN	GN	
<b>D4BA(NEW) 1 ton</b>	2,476	Grace Porter Galopper	<b>SDG30010ZX</b>	4	1st	91.1	2.0	3.3	BF	SR	GN	GN	23040-42010
					2nd	91.1	2.0	3.8	T1	CR	Cr	Fe	
					Oil	91.1	4.0	4.35	E-BC16	SR	GN	GN	
<b>D4BC D4BA D4BF D4BH</b>	2,476	H100 Galopper Grace Starex Porter T, T2	<b>SDG30011ZX</b>	4	1st	91.1	2.0	3.3	BF	SR	GN	GN	23040-42210 23040-42200 23040-42202
					2nd	91.1	2.0	3.8	T1	CR	Cr	Fe	
					Oil	91.1	3.0	3.25	E-BC16	SR	GN	GN	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>J3CRDI</b>	2,902	Terracan	<b>SDG30044ZY</b>	4	1st	97.1	2.45	3.5	BF-K2	HB	Cr	Fe	23040-4X920
					2nd	97.1	2.0	3.9	T1-RB	HB	Cr	Fe	
					Oil	97.1	3.0	3.25	E-BC16	SR	GN	GN	
<b>D4AE D4AL</b>	3,298	Mighty II 3.5ton	<b>SDG30002ZZ</b>	4	1st	100.0	3.0	4.0	BF-K1-IB	HB	Cr	Fe	23040-41400
					2nd	100.0	2.0	4.2	T1-IC	CR	Cr	Fe	
					Oil	100.0	4.0	4.35	E-BC16	SR	GN	GN	
<b>D4AE(OLD)</b>	3,298	Mighty	<b>SDG30004ZX</b>	4	1st	100.0	3.0	3.65	BF-K2	SR	Cr	Fe	23040-41060
					2nd	100.0	2.0	4.2	T1-IC	CR	Cr	Fe	
					Oil	100.0	5.0	4.95	E-BC16	SR	GN	GN	
<b>D4AF K-1</b>	3,567	Mighty	<b>SDG30005ZX</b>	4	1st	104.0	3.0	3.65	BF-K2	SR	Cr	Fe	23040-41200
					2nd	104.0	2.0	4.2	T1-IC	CR	Cr	Fe	
					Oil	104.0	4.0	4.4	E-BC16	SR	GN	GN	
<b>D4DD</b>	3,907	HD65 HD78	<b>SDG30057ZZ</b>	4	1st	104.0	2.806	3.7	BF-K1	SR	GN	GN	23040-45500
					2nd	104.0	2.0	4.2	T1-IC	CR	Cr	Fe	
					Oil	104.0	3.0	3.25	E-BC16	SR	GN	GN	
<b>D6DA</b>	6,606	Aero Aero Town	<b>SDG30068ZZ</b>	6	1st	109.0	2.806	4.5	BF-K1	HB	Cr	Fe	K0BRI-11-SCO
					2nd	109.0	2.5	4.6	T1-IC	HB	Cr	Fe	
					Oil	109.0	4.0	4.45	E-BC16	SR	GN	GN	
<b>D6BR</b>	7,545	4.5ton Truck 5ton Truck	<b>SDG30006ZZ</b>	6	1st	118.0	3.0	4.25	BF	SR	Cr	Fe	23040-93000
					2nd	118.0	2.5	4.6	T1-IC	CR	Cr	Fe	
					Oil	118.0	4.0	4.4	E-BC16	SR	GN	GN	
<b>D6AB D6AC</b>	11,149	Aero City Aero Town Aero Express HSX	<b>SDG30008ZZ</b>	6	1st	130.0	3.306	5.4	BF-K1	HB	Cr	Fe	23040-83020 23430-83000
					2nd	130.0	3.0	5.3	T1-IC	CR	Cr	Fe	
					Oil	130.0	6.0	5.5	E-BC16	CR	Cr	Fe	
<b>D6CB</b>	11,149	Aero City Aero Town Aero Express HSX	<b>SDG30014ZX</b>	6	1st	130.0	3.306	4.55	BF-K1	SR	Cr	Fe	23040-83030
					2nd	130.0	3.0	5.3	T1-IC	CR	Cr	Fe	
					Oil	130.0	4.0	4.35	E-BC16	SR	GN	GN	
<b>D6AC</b>	11,149	Aero Air Compressor	<b>SDG30012ZZ</b>	6	1st	130.0	3.306	4.55	BF-K1	SR	Cr	Fe	23040-83000
					2nd	130.0	3.0	5.2	T1-IC	CR	Cr	Fe	
					Oil	130.0	6.0	5.5	E-BC16	CR	Cr	Fe	
<b>D70 D6CA</b>	12,920	Samco	<b>SDG30048ZZ</b>	6	1st	133.0	3.33	5.4	BF-K1	HB	Cr	Fe	23430-84010
					2nd	133.0	3.0	5.35	T1	HB	Cr	Fe	
					Oil	133.0	4.0	4.15	E-BC16	SR	Cr	Fe	
<b>D8AX</b>	16,031	15ton Truck 18ton Truck	<b>SDG30007ZZ</b>	V8	1st	135.0	3.306	5.4	BF-K1	HB	Cr	Fe	23040-72020 23040-72800
					2nd	135.0	3.0	5.5	T1-IC	CR	Cr	Fe	
					3rd	135.0	3.0	5.5	B1-UC	CR	Cr	Fe	
					Oil	135.0	4.0	4.35	E-BC16	SR	GN	GN	
<b>D8AY D8AX</b>	16,031	15ton Truck 18ton Truck	<b>SDG30013ZZ</b>	V8	1st	135.0	3.306	5.4	BF-K1	HB	Cr	Fe	23040-72000
					2nd	135.0	3.0	5.5	T1-IC	CR	Cr	Fe	
					3rd	135.0	3.0	5.5	B1-UC	CR	Cr	Fe	
					Oil	135.0	6.0	5.7	E-BC16	CR	Cr	Fe	

## ● Gasoline-engine Automobiles ● ガソリン車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>B1</b>	1,138	Pride	<b>SWK30018ZZ</b>	4	1st	68.0	1.2	2.45	BF	SR	Cr	Fe	KK1Y-11-SCO
<b>B3</b>	1,324				2nd	68.0	1.5	3.1	TUC	CR	Fe	Fe	KK1Y8-11-SCO
					Oil	68.0	3.0	2.95	NIFF-S	SR	Cr	Fe	KKY1-11-SCO
<b>C10</b>	785	Towner	<b>SWK30021ZZ</b>	3	1st	70.0	1.2	2.5	BF-IB	SR	GN	GN	K0BMI-11-SCO
					2nd	70.0	1.5	3.0	TUC	CR	Fe	Fe	
					Oil	70.0	2.8	2.85	NIFF-S	SR	GN	GN	
<b>B3</b>	1,324	Pride	<b>SWK30017ZZ</b>	4	1st	71.0	1.2	2.47	BF	SR	Cr	Fe	K1Y0-11-SCO
					2nd	71.0	1.5	3.1	TUC	CR	Fe	Fe	K1Y1-11-SCO
					Oil	71.0	3.0	2.92	NIFF-S	SR	Cr	Fe	
<b>1Y0 Kappa II 1.0L</b>	998	Picanto	<b>SWK30028ZZ</b>	3	1st	71.0	1.0	2.3	BF-IB	SR	GN	GN	23040-04100
					2nd	71.0	1.2	2.5	TUC	CR	Fe	Fe	
					Oil	71.0	2.0	1.95	NIFF-H	SR	GN	GN	
<b>B3 EURO4</b>	1,324	Pride Rio	<b>SWK30031ZZ</b>	4	1st	71.0	1.2	2.5	BF	SR	GN	GN	
					2nd	71.0	1.2	2.5	TUC	CR	Fe	Fe	
					Oil	71.0	2.0	1.95	NIFF-H	SR	GN	GN	
<b>DC</b>	1,493	Rio	<b>SWK30019ZZ</b>	4	1st	75.5	1.2	2.85	BF-IB	SR	Cr	Fe	OK3Y0-11-SCO
					2nd	75.5	1.2	3.3	TUC	CR	Fe	Fe	OK3Y2-11-SCO
					Oil	75.5	2.5	2.75	NIFF-H	SR	GN	GN	
<b>B6D</b>	1,597	Sephia	<b>SWK30026ZZ</b>	4	1st	78.0	1.5	3.05	BF	SR	Cr	Fe	OK2Y2-11-SCO
					2nd	78.0	1.5	3.4	TUC	CR	Fe	Fe	OK2Y0-11-SCO
					Oil	78.0	3.0	3.0	NIFF-S	SR	Cr	Fe	
		Spectra	<b>SWK30027ZZ</b>	4	1st	78.0	1.2	2.85	BF-IB	SR	Cr	Fe	OK3Y3-11-SCO
					2nd	78.0	1.2	3.3	TUC	CR	Fe	Fe	
					Oil	78.0	2.5	2.8	NIFF-S	SR	Cr	Fe	
<b>KV20 B5D</b>	1,498	Sephia Capital	<b>SWK30020ZZ</b>	4	1st	78.0	1.5	3.05	BF	SR	Cr	Fe	K9Y1-11-SCO
					2nd	78.0	1.5	3.4	TUC	CR	Fe	Fe	
					Oil	78.0	4.0	3.05	NIFF-S	SR	Cr	Fe	
<b>ROVER KV6 2.5L</b>	2,497	Carnival	<b>SWK30025ZZ</b>	V6	1st	80.0	1.2	2.9	BF-IB	SR	Cr	Fe	OK9YV-11-SCO
					2nd	80.0	1.5	3.4	TUC	CR	Fe	Fe	
					Oil	80.0	2.5	2.85	NIFF-S	SR	Cr	Fe	
<b>NuGDI 2.0L</b>	1,999	Carens	<b>SWK30030ZZ</b>	4	1st	81.0	1.5	3.1	BF	SR	GN	GN	OK2Y3-11-SCO
					2nd	81.0	1.5	3.4	T1	CR	Fe	Fe	
					Oil	81.0	3.0	2.85	NIFF-H	SR	GN	GN	
<b>FE FED</b>	1,998	Sportage	<b>SWK30022ZZ</b>	4	1st	86.0	1.5	3.3	BF	SR	GN	GN	OKFY3-11-SCO
					2nd	86.0	1.5	3.8	TUC	CR	Fe	Fe	
					Oil	86.0	4.0	3.05	NIFF-S	SR	GN	GN	
<b>G8BA Tau 4.6</b>	4,627	Borrego Mohave Equus Genesis	<b>TCC-P-0738</b>	V8	1st	92.0	1.2	3.27	BF-IB	SR	Cr	Fe	23040-3F300
					2nd	92.0	1.2	3.4	TUC	CR	Fe	Fe	23040-3F302
					Oil	92.0	2.0	2.7	NIFF-H	SR	Cr	Fe	

## ● Diesel-engine Automobiles ● ディーゼル車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>D4FB</b>	1,582	Cerato Ceed Soul Venga	<b>SDK30029ZZ</b>	4	1st	77.2	1.75	2.9	BF-IB	SR	GN	GN	23040-2A960
					2nd	77.2	1.75	3.1	T1-IC	HB	Cr	Fe	
					Oil	77.2	3.0	3.0	E-BC16	SR	GN	GN	
<b>D6EA</b>	2,959	Mohave	<b>TCC-P-0712</b>	V6	1st	84.0	2.5	3.1	BF-K1	SR	GN	GN	23040-3A900
					2nd	84.0	1.75	3.5	T1	CR	Cr	Fe	
					Oil	84.0	3.0	3.25	E-BC16	SR	GN	GN	
<b>NB1(OLD)</b>	2,184	Besta	<b>SDK30006ZZ</b>	4	1st	86.0	2.0	3.05	BF-IB	SR	Cr	Fe	R201-23-130
					2nd	86.0	2.0	3.6	T1-IC	CR	Fe	Fe	
					Oil	86.0	4.0	4.15	E-BC16	SR	GN	GN	
<b>NB7</b>	2,184	Sportage Sportage Turbo	<b>SDK30011ZX</b>	4	1st	86.0	2.0	3.05	BF-IB	SR	Cr	Fe	K7Y1-11-SCO
					2nd	86.0	2.0	3.6	T1-IC	CR	Cr	Fe	
					Oil	86.0	3.0	3.25	E-BC16	SR	GN	GN	
<b>R2 NB1(NEW)</b>	2,184	New Besta	<b>SDK30013ZX</b>	4	1st	86.0	2.0	3.05	BF-K2	SR	Cr	Fe	K7Y0-11-SCO
					2nd	86.0	2.0	3.6	T1-IC	CR	Fe	Fe	
					Oil	86.0	4.0	4.15	E-BC16	SR	GN	GN	
<b>S2 XA</b>	2,209 2,522	Bongo Ceres	<b>SDK30007ZX</b>	4	1st	88.925	2.383	3.45	BF	SR	Cr	Fe	K6Z0-11-SCO
					2nd	88.925	2.383	3.5	T1-IC	CR	Fe	Fe	
					Oil	88.925	4.763	4.6	E-BC16	SR	GN	GN	
<b>D4BH D4BF</b>	2,476	Pregio Galopper Satellite	<b>TCC-P-0715</b>	4	1st	91.1	2.5		BF-K2	SR	GN	GN	23040 42510
					2nd	91.1	2.0		T1-K2	SR	GN	GN	
					Oil	91.1	4.0		E-BC16	SR	GN	GN	
<b>SF</b>	2,417	K2400 Bongo Porter Bongo Wide Bongo	<b>SDK30005ZX</b>	4	1st	92.0	2.4	3.8	BF	CR	Cr	Fe	K7Z0-11-SCO K756-23-206
					2nd	92.0	2.4	3.8	T1	CR	Fe	Fe	
					Oil	92.0	4.0	4.35	E-BC16	SR	GN	GN	
<b>SS SUTC</b>	2,700	Besta Hi Topic	<b>SDK30004ZX</b>	4	1st	92.0	2.85	3.45	BF-K1	SR	Cr	Fe	K4Z0-11-SCO K480-23-206
					2nd	92.0	2.4	3.8	T1	CR	Fe	Fe	
					Oil	92.0	4.0	4.35	E-BC16	SR	GN	GN	
<b>ZB</b>	4,052	K4100	<b>SDK30012ZX</b>	6	1st	92.025	2.383	3.45	BF	SR	Cr	Fe	OK8Y1-11-SCO
					2nd	92.025	2.383	3.6	T1-IC	CR	Cr	Fe	
					Oil	92.025	4.763	4.6	E-BC16	SR	GN	GN	
<b>RFA VN</b>	2,662	Hi Besta	<b>SDK30009ZZ</b>	4	1st	93.0	2.0	3.25	BF-IB	SR	Cr	Fe	VNY1-11-SCO
					2nd	93.0	2.0	3.7	TUC	CR	Cr	Fe	
					Oil	93.0	3.0	3.25	E-BC16	SR	GN	GN	



Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>JS J2</b>	2,665	K2700 Pregio	<b>SDK30001ZZ</b>	4	1st	94.5	2.0	3.3	BF	SR	GN	GN	K6Z1-11-SCO
					2nd	94.5	2.0	4.0	T1-IC	CR	Cr	Fe	
					Oil	94.5	3.0	3.25	E-BC16	SR	GN	GN	
<b>HA1</b>	2,957	K3000 Super Titan	<b>SDK30010ZZ</b>	4	1st	95.0	2.383	3.45	BF	SR	Cr	Fe	KOY0-11-SCO
					2nd	95.0	2.383	3.8	T1	CR	Cr	Fe	
					Oil	95.0	4.0	4.15	E-BC16	SR	GN	GN	
<b>J3 TCI</b>	2,902	Carnival	<b>SDK30016ZZ</b>	4	1st	97.1	2.0	3.5	BF-K2	SR	GN	GN	K5Z1-11-SCO
					2nd	97.1	2.0	3.9	T1-IC	CR	Cr	Fe	
					Oil	97.1	3.0	3.25	E-BC16	SR	GN	GN	
<b>JT</b>	2,956	K3000 K4000	<b>SDK30008ZZ</b>	4	1st	98.0	2.0	3.65	BF-IB	SR	Cr	Fe	K7Z1-11-SCO
					2nd	98.0	2.0	3.9	T1-IC	CR	Cr	Fe	
					Oil	98.0	3.0	3.25	E-BC16	SR	GN	GN	
<b>JD</b>	3,455	Trade K3500	<b>SDK30014ZX</b>	4	1st	100.0	2.5	3.65	BF	SR	Cr	Fe	K4Y0-11-SCO
					2nd	100.0	2.0	4.2	T1-IC	CR	Cr	Fe	
					Oil	100.0	4.5	4.6	E-BC16	SR	GN	GN	
<b>SH</b>	3,598	Trade K3600	<b>SDK30003ZZ</b>	4	1st	100.0	2.0	3.7	BF	SR	GN	GN	K4Y1-11-SCO
					2nd	100.0	2.0	4.2	T1-IC	CR	Cr	Fe	
					Oil	100.0	3.0	3.25	E-BC16	SR	GN	GN	
<b>H07C</b>	6,728	Cosmos	<b>SDK30015ZX</b>	6	1st	110.0	3.0	4.1	BF	SR	GN	GN	OK8Y0-11-SCO
					2nd	110.0	2.5	4.5	T1-IC	CR	Fe	Fe	
					3rd	110.0	2.5	4.5	BI-TUC	CR	Cr	Fe	
					Oil	110.0	5.0	4.95	E-BC16	SR	GN	GN	
<b>EF750</b>	16,745	Granto Granbird	<b>SDK30023ZZ</b>	V8	1st	137.0	3.306	5.4	BF-K1	HB	Cr	Fe	AA92F-11120
					2nd	137.0	3.5	5.4	T1-IC	CR	Fe	Fe	
					3rd	137.0	3.5	5.4	BI-TUC	CR	Cr	Fe	
					Oil	137.0	6.0	5.5	E-BC3	CR	Cr	Fe	



## ● Diesel-engine Automobiles ● ディーゼル車 ●

Fit for FOTON/JAC

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>ISF2.8</b>	2,781	Aumark	<b>TCC-R-0858</b>	4	1st	94.0	2.35		BF-K1	SR	GN	GN	5269330
					2nd	94.0	2.0		T1-RB	CR	Fe	Fe	
					Oil	94.0	3.0		E-BC16	HB	Cr	Fe	
<b>6BT</b>	5,880	For Industrial Machine	<b>TCC-S-0856</b>	6	1st	102.0	2.806		BF-K1	SR	GN	GN	3802230
					2nd	102.0	2.37		T1-IB	CR	Fe	Fe	
					Oil	102.0	4.0		E-BC16	SR	GN	GN	
<b>ESF3.8</b> <b>ISF3.8</b>	3,757	For Industrial Machine	<b>TCC-S-0857</b>	4	1st	102.0	2.806		BF-K1	SR	GN	GN	3802421
					2nd	102.0	2.37		T1-IB	CR	Fe	Fe	
					Oil	102.0	4.0		E-BC16	SR	GN	GN	

DAIHATSU

SUBARU

HINO

HONDA

ISUZU

KOMATSU

MAZDA

MITSUBISHI

NISSAN

UD TRUCKS

SUZUKI

TOYOTA

DAEWOO

HYUNDAI

KIA

**CHINA**

ASIA

CHRYSLER

FORD

G.M

EUROPE

## ● Gasoline-engine Automobiles ● ガソリン車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
<b>CD800 JADE</b>	796	Towner	<b>SWA20001ZZ</b>	3	1st	70.0	1.2	2.5	BF-IB	SR	GN	GN	AA100-11-120
					2nd	70.0	1.5	3.0	TUC	CR	Fe	Fe	
					Oil	70.0	2.8	2.85	NIFF-S	SR	GN	GN	

## ● Diesel-engine Automobiles ● ディーゼル車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
<b>EM100</b>	9,419	Truck	<b>SDA20002ZX</b>	6	1st	124.0	2.806	4.45	BF-K1	SR	Cr	Fe	EA1522-2010AS
					2nd	124.0	2.5	5.0	T1-IC	CR	Cr	Fe	
					3rd	124.0	3.0	5.0	BI-TUC	CR	Cr	Fe	
					Oil	124.0	5.0	4.95	E-BC16	SR	GN	GN	

## ● Gasoline-engine Automobiles ● ガソリン車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>6G73</b>	2,497	Avenger Cirrus Stratus	<b>SWC10009ZZ</b>	V6	1st	83.5	1.2	2.85	BF	SR	Cr	Fe	MD310258
					2nd	83.5	1.5	3.5	T1	CR	Fe	Fe	MD159836
					Oil	83.5	3.0	2.85	NIFF-S	SR	Cr	Fe	
<b>EER 2.7</b>	2,736	Concorde Interpid	<b>SWC10001ZZ</b>	V6	1st	86.0	1.5	3.45	BF	SR	Cr	Fe	4897027 AA
					2nd	86.0	1.5	4.0	T1-RB	CR	Fe	Fe	
<b>ELLESMERE L81</b>	2,962	Stratus			Oil	86.0	3.0	3.0	NIFF-S	SR	Cr	Fe	
<b>SLANT 6</b>	3,687	Pick up Ram Van Ram Wagon	<b>SWC10017ZZ</b>	V6	1st	86.36	1.98	4.0	BF	CR	Cr	Fe	4131203
					2nd	86.36	1.98	4.0	T1-RB	CR	Fe	Fe	4131214
					Oil	86.36	4.76	4.2	NIFF-S	SR	Cr	Fe	4131205
<b>K 2.2 K 2.2T K 2.5 K 2.5T</b>	2,212 2,507	Acclaim Caravan Dakota	<b>SWC10003ZZ</b>	4	1st	87.5	1.5	3.8	BF	CR	Cr	Fe	4626636
					2nd	87.5	1.5	4.0	T1-RB	CR	Fe	Fe	4411977
					Oil	87.5	4.0	3.8	NIFF-S	SR	Cr	Fe	4626575
<b>EDZ 2.4</b>	2,429	Stratus Sebring	<b>SWC10004ZZ</b>	4	1st	87.5	1.2	2.9	BF	SR	GN	GN	4897024 AA
					2nd	87.5	1.5	3.9	T1-RB	CR	Cr	Fe	
					Oil	87.5	3.0	2.55	NIFF-S	SR	GN	GN	
<b>EDT 2.4</b>	2,429	Neon PT Cruiser Wranger	<b>SWC10010ZY</b>	4	1st	87.5	1.2	2.9	BF	SR	GN	GN	5093441 AA
					2nd	87.5	1.5	4.0	TUC	CR	Fe	Fe	4798324
					Oil	87.5	2.5	2.8	NIFF-S	SR	Cr	Fe	
<b>EDZ 2.4 POWERTECH 2.4</b>	2,429	Sebring Stratus	<b>SWC10007ZZ</b>	4	1st	87.5	1.5	3.3	BF-IB	SR	GN	GN	5073524 AA
					2nd	87.5	1.5	4.0	TUC	CR	Fe	Fe	4773005
					Oil	87.5	3.0	2.55	NIFF-S	SR	GN	GN	
<b>TIGERSHARK 2.0</b>	1,998	200 Cherokee Dart	<b>SWC10027ZZ</b>	4	1st	88.0	1.2	2.7	BF	SR	GN	GN	68165801AA
					2nd	88.0	1.2	3.35	TUC	CR	Fe	Fe	68231951AB
					Oil	88.0	2.0	2.55	NIFF-H	SR	GN	GN	
<b>TIGERSHARK 2.4</b>	2,359	Renegade											
<b>EGW 3.2</b>	3,195	Concorde Interpid	<b>SWC10008ZZ</b>	V6	1st	92.0	1.2	3.3	BF	SR	GN	GN	4897032 AA
					2nd	92.0	1.5	4.1	TUC	CR	Fe	Fe	
					Oil	92.0	3.0	3.05	NIFF-S	SR	GN	GN	
<b>EGA 3.3 POWERTECH 3.7</b>	3,293 3,701	Grand Caravan Voyager	<b>SWC10002ZZ</b>	V6	1st	93.0	1.5	3.25	BF	SR	Cr	Fe	4897033 AA
					2nd	93.0	1.5	3.9	T1-RB	CR	Fe	Fe	5241052
					Oil	93.0	3.0	3.0	NIFF-S	SR	Cr	Fe	5012364 AC
<b>EGJ 3.5 EGH 3.8</b>	3,507 3,802	Concorde Interpid	<b>SWC10005ZZ</b>	V6	1st	96.0	1.5	3.5	BF	SR	GN	GN	4626388
					2nd	96.0	1.5	4.0	T1-RB	CR	Fe	Fe	4626660
					Oil	96.0	3.0	3.2	NIFF-S	SR	GN	GN	
<b>EGG 3.5 EGQ 4.0 EGS 4.0</b>	3,518 3,952	Pacifica Nitro Concorde	<b>SWC10013ZZ</b>	V6	1st	96.0	1.2	3.5	BF	SR	GN	GN	4897035 AA
					2nd	96.0	1.5	4.0	TUC	CR	Fe	Fe	
					Oil	96.0	3.0	3.45	NIFF-S	SR	Cr	Fe	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper / Lower	
<b>EGJ 3.5</b> <b>EGH 3.8</b> <b>SMPI 4.0</b>	3,523	Concorde	<b>SWC10015ZX</b>	V6	1st	96.0	1.2	3.5	BF	SR	GN	GN	4773023
	3,778	Grand Caravan			2nd	96.0	1.5	4.0	T1-RB	CR	Fe	Fe	
	3,952	Town & County			Oil	96.0	3.0	3.2	NIFF-S	SR	GN	GN	
<b>PENTASTAR 3.6L</b>	3,604	200 300	<b>SWC10025ZZ</b>	V6	1st	96.0	1.2	3.1	BF	SR	GN	GN	68078776AA
		Avenger			2nd	96.0	1.2	3.7	TUC	CR	Fe	Fe	
		Challenger			Oil	96.0	2.0	2.55	NIFF-H	SR	GN	GN	
		Charger											
		Durango											
Grand Caravan													
Grand Cherokee													
Journey													
Ram 1500													
Ram Cargo Van													
Ram Promaster													
Town & Country													
Wrangler													
<b>AMC 150</b>	2,464	Cherokee	<b>SWC10011ZX</b>	4	1st	98.43	1.5	3.5	BF	SR	GN	GN	4798324
		Dakota			2nd	98.43	1.5	4.5	T1-RB	CR	Fe	Fe	
					Oil	98.43	4.0	3.2	NIFF-S	SR	Cr	Fe	
<b>POWERTech 4.0</b>	3,966	Wrangler	<b>SWC10012ZY</b>	V6	1st	98.43	1.5	3.5	BF	SR	GN	GN	4798878
		Cherokee			2nd	98.43	1.5	4.5	T1-RB	CR	Fe	Fe	
					Oil	98.43	4.0	3.2	NIFF-S	SR	Cr	Fe	
<b>LA239</b>	3,917	Pick up	<b>SWC10018ZZ</b>	V6	1st	99.31	2.0	4.5	BF-IB	CR	Cr	Fe	3780007
		Ram Van			2nd	99.31	2.0	4.5	T1-RB	CR	Fe	Fe	
		Dakota			Oil	99.31	4.76	4.2	NIFF-S	SR	Cr	Fe	
<b>LA318</b> <b>MAGNUM 5.2</b>	5,211	Pick up	<b>SWC10019ZZ</b>	V8	1st	99.31	2.0	4.5	BF-IB	CR	Cr	Fe	2808553
		Ram Van			2nd	99.31	2.0	4.5	T1-RB	CR	Fe	Fe	2808550
		Ram Wagon			Oil	99.31	4.76	4.2	NIFF-S	SR	Cr	Fe	3780007
<b>MAGNUM 5.2</b>	5,211	Dakota	<b>SWC10020ZX</b>	V8	1st	99.31	2.0	3.45	BF	SR	Cr	Fe	4638060
		Ram Van			2nd	99.31	2.0	4.5	T1	CR	Fe	Fe	4720727
		Ram Wagon			Oil	99.31	4.0	3.1	NIFF-S	SR	GN	GN	
<b>HEMI 5.7 EZB</b> <b>HEMI 5.7</b>	5,654	Durango	<b>SWC10016ZX</b>	V8	1st	99.5	1.5	3.5	BF	SR	GN	GN	5086002 AA
		Ram 1500			2nd	99.5	1.5	4.5	T1-RB	CR	Fe	Fe	
		Ram 2500			Oil	99.5	3.0	2.85	NIFF-S	SR	GN	GN	
<b>HEMI 5.7L</b>	5,654	Challenger	<b>SWC10024ZZ</b>	V8	1st	99.5	1.2	3.1	BF	SR	GN	GN	68046210AB
		Charger			2nd	99.5	1.2	4.0	TUC	CR	Fe	Fe	
		Grand Cherokee			Oil	99.5	2.0	2.7	NIFF-H	SR	Cr	Fe	
		Durango											
Ram 1500													
Ram 2500													
Ram 3500													
<b>HEMI 6.4</b> <b>HEMI 6.4 ESG</b>	6,424	300	<b>SWC10026ZZ</b>	V8	1st	103.9	1.5	3.3	BF	SR	GN	GN	68092206AA
		Challenger			2nd	103.9	1.2	4.2	TUC	CR	Cr	Fe	
		Charger			Oil	103.9	2.0	2.8	NIFF-H	SR	GN	GN	
		Durango											
Grand Cherokee													
Ram 2500													
Ram 3500													
Ram 4500 Chassis													
Ram 5500 Chassis													

DAIHATSU  
SUBARU  
HINO  
HONDA  
ISUZU  
KOMATSU  
MAZDA  
MITSUBISHI  
NISSAN  
UD TRUCKS  
SUZUKI  
TOYOTA  
DAEWOO  
HYUNDAI  
KIA  
CHINA  
ASIA  
CHRYSLER  
FORD  
G M  
EUROPE

## ● Diesel-engine Automobiles ● ディーゼル車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>6BT ISB5.9</b>	5,899	Pick up Ram 2500 Ram 3500 Ram Charger	<b>SDC10022ZZ</b>	6	1st	102.0	2.84	4.2	BF-K1	HB	Cr	Fe	4089258
					2nd	102.0	2.385	4.3	T1-RB	CR	Fe	Fe	4761334
					Oil	102.0	4.0	4.3	E-BC16	CR	Cr	Fe	
<b>B6.7</b>	6,690	Ram 2500 Ram 3500 Ram 4500 Chassis Cab Ram 5500 Chassis Cab	<b>SDC10023ZX</b>	6	1st	107.0	2.85	4.4	BF-K1	HB	Cr	Fe	4955366
					2nd	107.0	2.5	4.5	T1-RB	CR	Fe	Fe	
					Oil	107.0	3.5	4.15	E-BC16	CR	Cr	Fe	

DAIHATSU  
SUBARU  
HINO  
HONDA  
ISUZU  
KOMATSU  
MAZDA  
MITSUBISHI  
NISSAN  
UD TRUCKS  
SUZUKI  
TOYOTA  
DAEWOO  
HYUNDAI  
KIA  
CHINA  
ASIA  
CHRYSLER  
FORD  
G M  
EUROPE

## ● Gasoline-engine Automobiles ● ガソリン車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>ZETEC ROCAM</b>	999	Escort Fiesta Ka Focus EcoSport	<b>SWF30033ZZ</b>	4	1st	68.68	1.2	2.5	BF	SR	GN	GN	A59870
					2nd	68.68	1.5	2.85	TUC	CR	GN	GN	
					Oil	68.68	2.0	3.1	NIFF-H	SR	Cr	Fe	
<b>ECOBOOST 16T</b>	1,596	Escape Fiesta Fusion Transit Concept	<b>SWF30030ZZ</b>	4	1st	79.0	1.2	2.9	BF	SR	GN	GN	CJ5Z 6148 A CJ5Z 6148 B
					2nd	79.0	1.2	2.9	TUC	SR	Fe	Fe	
					Oil	79.0	2.0	2.5	NIFF-H	SR	GN	GN	
<b>ZL16 ROCAM</b>	1,596	Focus	<b>SWF30017ZZ</b>	4	1st	82.0	1.2	2.85	BF	SR	Cr	Fe	XS6E 6148 DA
					2nd	82.0	1.5	3.5	TUC	CR	Fe	Fe	
					Oil	82.0	2.0	3.05	NIFF-H	SR	Cr	Fe	
<b>DURATEC VE DURATEC 25SVT</b>	2,540	Contour	<b>SWF30003ZZ</b>	6	1st	82.5	1.2	2.9	BF	SR	GN	GN	F5RZ 6148E XS2Z 6148 AA
					2nd	82.5	1.5	3.6	TUC	CR	Fe	Fe	
					Oil	82.5	3.0	2.85	NIFF-S	SR	GN	GN	
<b>FS FS05</b>	1,991	Probe	<b>SWF30001ZZ</b>	4	1st	83.0	1.2	3.1	BF-IB	SR	GN	GN	FSY2-11-SCO E62Z 6149 AA
					2nd	83.0	1.5	3.6	TUC	CR	Fe	Fe	
					Oil	83.0	3.0	3.2	NIFF-S	SR	Cr	Fe	
<b>ECOBOOST 27T ECOBOOST 27TT</b>	2,687	Bronco Continental Edge Sport F150 Fusion MKX Nautilus	<b>SWF30031ZZ</b>	V6	1st	83.0	1.2	2.7	BF	SR	GN	GN	FT4Z-6148-A
					2nd	83.0	1.2	3.1	TUC	CR	Fe	Fe	
					Oil	83.0	2.0	2.2	NIFF-H	SR	GN	GN	
<b>ZETEC-R 2.0</b>	1,991	Cougar Escape Focus ZX2	<b>SWF30002ZZ</b>	4	1st	84.8	1.5	3.05	BF	SR	Cr	Fe	YS4Z 6135 AA F8CZ 6148 AA
					2nd	84.8	1.75	3.9	TUC	CR	Fe	Fe	
					Oil	84.8	3.0	3.2	NIFF-S	SR	Cr	Fe	
<b>CVH 2.0</b>	1,986	Focus Escape Tracer	<b>SWF30005ZZ</b>	4	1st	84.86	1.5	3.1	BF	SR	GN	GN	F7CZ 6148 AA 2MGZ 6135 AA
					2nd	84.86	1.5	3.9	T1-RB	CR	Fe	Fe	
					Oil	84.86	3.0	3.1	NIFF-S	SR	GN	GN	
<b>ZETEC-E 2.0</b>	1,991	Mystique	<b>SWF30007ZZ</b>	4	1st	84.86	1.5	3.1	BF	SR	GN	GN	F5RZ 6148 A
					2nd	84.86	1.75	3.8	TUC	CR	Fe	Fe	
					Oil	84.86	3.0	3.1	NIFF-S	SR	GN	GN	
<b>ECOBOOST 30TT</b>	2,967	Aviator Explorer Continental MKZ	<b>TCC-Q-0774</b>	V6	1st	85.4	1.2		BF	SR	GN	GN	GB8Z 6148 C
					2nd	85.4	1.2		TUC	SR	Fe	Fe	
					Oil	85.4	2.0		NIFF-H	SR	GN	GN	
<b>ECOBOOST 20T DURATEC 20H</b>	1,999	Escape Focus Fusion Taurus	<b>SWF30023ZZ</b>	4	1st	87.5	1.2	2.9	BF	SR	GN	GN	AG9Z 6148 A CM5Z 6148 AB
					2nd	87.5	1.2	3.4	TUC	CR	Fe	Fe	
					Oil	87.5	2.0	2.5	NIFF-H	SR	GN	GN	
<b>DURATEC 25</b>	2,488	Escape Fusion Escape hybrid Fusion hybrid	<b>SWF30024ZZ</b>	4	1st	89.0	1.2	2.9	BF-IB	SR	GN	GN	9E5Z 6148 A
					2nd	89.0	1.2	3.8	TUC	CR	Fe	Fe	
					Oil	89.0	2.5	2.45	NIFF-H	SR	GN	GN	
<b>VULCAN V6</b>	2,997	Sable Taurus Ranger	<b>SWF30016ZZ</b>	V6	1st	89.0	1.5	3.45	BF	SR	Cr	Fe	4F1Z 6148 CA 2F1Z 6148 AA
					2nd	89.0	1.5	3.7	TUC	CR	Fe	Fe	
					Oil	89.0	3.0	2.95	NIFF-S	SR	Cr	Fe	



Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>DURATEC 30</b>	2,967	Fusion Taurus	<b>SWF30021ZZ</b>	V6	1st	89.0	1.2	3.5	BF	SR	GN	GN	YF1Z 6148BA
					2nd	89.0	1.5	4.1	TUC	CR	Fe	Fe	
					Oil	89.0	2.5	2.85	NIFF-S	SR	GN	GN	
<b>TRITON 46GT</b> <b>TRITON 46V</b>	4,605	Expedition	<b>SWF30006ZY</b>	V8	1st	90.2	1.5	3.25	BF	SR	Cr	Fe	F5LY 6148 A F7AZ 6148 AA 2L3Z 6148 AA
		2nd			90.2	1.5	4.1	TUC	CR	Fe	Fe		
Oil	90.2	3.0			3.25	NIFF-S	SR	Cr	Fe	Fe			
<b>TRITON 54</b> <b>TRITON 54V</b>	5,408	F150	<b>SWF30008ZZ</b>	V8	1st	90.2	1.2	3.3	BF	SR	GN	GN	F8LZ 6148 AA
2nd	90.2	1.5			3.9	T1-RB	CR	Fe	Fe				
Oil	90.2	3.0	3.1	NIFF-S	SR	GN	GN	GN					
<b>TRITON 46</b> <b>TRITON 46C</b> <b>INTECH 46</b>	4,605	Continental Mustang Town Car	<b>SWF30019ZY</b>	V10	1st	90.2	1.5	3.25	BF	SR	Cr	Fe	2L3Z 6148 AA
2nd	90.2	1.5			4.1	TUC	CR	Fe	Fe				
Oil	90.2	3.0			3.25	NIFF-S	SR	Cr	Fe	Fe			
<b>TRITON 6.8</b>	6,801	Fullsize Van	<b>SWF30027ZZ</b>	V8	1st	92.2	1.2	3.1	BF	SR	GN	GN	CU7Z 6148 A
2nd	92.2	1.2			3.5	TUC	HB	Cr	Fe				
Oil	92.2	2.5			2.75	NIFF-H	SR	Cr	GN	GN			
<b>COYOTE 50</b>	4,951	F150 Mustang	<b>SWF30026ZZ</b>	V6	1st	92.5	1.2	3.1	BF	SR	GN	GN	ATAZ 6148 C
2nd	92.5	1.5			3.55	TUC	CR	Fe	Fe				
Oil	92.5	2.5			2.75	NIFF-H	SR	GN	GN	GN			
<b>COLOGNE 29</b>	2,901	Bronco II Ranger	<b>SWF30014ZY</b>	V6	1st	93.0	1.6	3.9	BF	HB	Cr	Fe	E7RY 6148 A
2nd	93.0	1.75			3.9	T1	CR	Fe	Fe				
Oil	93.0	3.5			3.05	NIFF-S	SR	Fe	GN	GN			
<b>HSC 2.3</b>	2,311	Tempo Topaz	<b>SWF30011ZX</b>	4	1st	93.47	2.0	3.3	BF	SR	GN	GN	E63Z 6148 A
2nd	93.47	2.0			4.3	T1-RB	CR	Fe	Fe				
Oil	93.47	4.76			4.2	NIFF-S	SR	Cr	Fe	Fe			
<b>HSC 2.5</b>	2,496	Sable Taurus	<b>SWF30034ZZ (TCC-M-0112)</b>	V6	1st	95.5	1.2	3.1	BF	SR	GN	GN	BA5Z 6148 C
2nd	95.5	1.5			3.5	TUC	CR	Fe	Fe				
Oil	95.5	2.5			2.85	NIFF-S	SR	GN	GN	GN			
<b>DURATEC 37</b>	3,721	Edge Sports Mustang Continental F150 Lincoln MKS Lincoln MKT Lincoln MKX Lincoln MKZ Transit	<b>SWL03268ZX</b>	4	1st	96.0	1.5	3.45	BF	SR	Cr	Fe	F1ZZ 6148 A
2nd	96.0	1.5			4.0	T1-RB	CR	Fe	Fe				
Oil	96.0	4.0			3.25	NIFF-S	SR	Cr	Fe	Fe			
<b>OHC 2.3</b>	2,295	Tempo Mustang Marquis	<b>SWF30013ZY</b>	V6	1st	96.8	1.5	3.45	BF	SR	Cr	Fe	E8DZ 6148 A F4DZ 6148 A E9SZ 6148 B
2nd	96.8	1.5			4.2	T1-RB	CR	Fe	Fe				
Oil	96.8	4.0			3.2	NIFF-S	SR	Cr	Fe	Fe			
<b>ESSEX V6 38</b>	3,802	Thunderbird Continental Cougar	<b>SWF30015ZZ</b>	V6	1st	96.8	2.0	4.4	BF	CR	Cr	Fe	E2DZ 6148 A
2nd	96.8	2.0			4.4	T1-RB	CR	Fe	Fe				
Oil	96.8	4.0			4.05	NIFF-S	SR	Cr	Fe	Fe			
<b>232CI V6</b> <b>ESSEX V6 38</b>	3,802	Cougar Mustang Marquis											

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>ESSEX V6 38 ESSEX V6 42</b>	3,802	Windstar	<b>SWF30004ZZ</b>	V6	1st	96.8	1.5	3.3	BF	SR	GN	GN	F6ZZ 6148 A 2L3Z 6148 KA
	4,195	Mustang			2nd	96.8	1.5	4.2	T1-RB	CR	Fe	Fe	
		Cougar			Oil	96.8	3.0	3.2	NIFF-S	SR	GN	GN	
<b>COLOGNE 40</b>	4,015	Explorer	<b>SWF30012ZZ</b>	V6	1st	100.4	1.2	3.5	BF	SR	GN	GN	2U3Z 6148 AA
		Mustang			2nd	100.4	1.5	4.2	TUC	CR	Fe	Fe	
		Mountaineer			Oil	100.4	3.0	3.25	NIFF-S	SR	Cr	Fe	
<b>BOSS 62</b>	6,211	F150	<b>SWF30032ZZ</b>	V8	1st	102.0	1.5	3.3	BF	SR	GN	GN	AU7Z-6148-G
		F250			2nd	102.0	1.5	4.3	TUC	CR	Fe	Fe	
		F350 Super Duty			Oil	102.0	2.5	2.95	NIFF-H	SR	Cr	Fe	
<b>GODZILLA 7.3</b>	7,298	F250	<b>TCC-Q-0775</b>	V8	1st	107.2	1.5		BF	SR	GN	GN	LC3Z 6148 B
		F350			2nd	107.2	1.2		TUC	SR	Cr	Fe	
		F450			Oil	107.2	2.5		NIFF-H	SR	GN	GN	
		F550											
		F650											
		F750											

● Diesel-engine Automobiles ● ディーゼル車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>DURATORQ 2.2L D5BA D6BA</b>	2,198	RANGER	<b>SDF30035ZZ (TCC-Q-0790)</b>	4	1st	86.0	2.0	3.5	BF-IB	SR	GN	GN	T207512
		BT-50			2nd	86.0	2.0	3.6	TUC	CR	Fe	Fe	
		Puma			Oil	86.0	2.0	2.75	E-BC16	SR	GN	GN	
		Mondeo											
		Transit 2.0											
<b>POWER STROKE 6.0</b>	5,954	Econoline E350	<b>SDF30029ZZ</b>	V8	1st	95.0	2.2	3.7	BF-K1	SR	GN	GN	3C3Z 6148 AA 4C3Z 6148 AA
		Excursion			2nd	95.0	2.0	4.2	T1-RB	CR	Fe	Fe	
		F250/F350			Oil	95.0	3.5	3.75	E-BC16	CR	Cr	Fe	
		F450/F550											
<b>POWER STROKE 6.4</b>	6,399	F250	<b>SDF30022ZX</b>	V8	1st	98.2	2.35	3.5	BF-K1	SR	GN	GN	8C3Z 6148 AA
		F350			2nd	98.2	2.0	4.3	T1-RB	CR	Fe	Fe	
		F450			Oil	98.2	3.0	3.25	E-BC16	SR	GN	GN	
<b>POWER STROKE 6.7T</b>	6,651	Econoline E450	<b>SDF30025ZZ</b>	V8	1st	99.0	2.85	3.6	BF-K1	HB	Cr	Fe	BC3Z 6148 A
		Econoline E550			2nd	99.0	2.0	3.6	TUC	CR	Fe	Fe	
		F250			Oil	99.0	2.5	2.85	E-BC16	SR	GN	GN	
		F350											
		F450											
		F550											
<b>POWER STROKE 7.3T</b>	7,276	Econoline	<b>SDF30020ZX</b>	V8	1st	104.4	3.0	3.9	BF-K1	SR	GN	GN	F81Z 6148 AA F7TZ 6148 AA
		Excursion			2nd	104.4	2.0	4.0	T1-RB	CR	Fe	Fe	
		F250 F350			Oil	104.4	3.5	3.85	E-BC16	CR	Cr	Fe	
		F450 F550											
		F650											

## ● Gasoline-engine Automobiles ● ガソリン車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
S-TEC II 1.0L	996	Spark	SWG10045ZZ	4	1st	68.5	1.2	2.65	BF-IB	SR	Cr	Fe	93745491
					2nd	68.5	1.2	2.8	T1	CR	Fe	Fe	
					Oil	68.5	2.0	2.55	NIFF-H	SR	Cr	Fe	
S-TEC II 1.2L	1,206	Spark Aveo Sail	SWG10033ZZ	4	1st	69.7	1.2	2.65	BF-IB	SR	Cr	Fe	93744884
					2nd	69.7	1.2	2.8	T1	CR	Fe	Fe	
					Oil	69.7	2.0	2.4	NIFF-H	SR	Cr	Fe	
B12D LAQ	1,206	N200 N300	SWG10047ZZ	4	1st	69.7	1.2	2.5	BF	SR	GN	GN	24545481 25194424
					2nd	69.7	1.2	2.7	TUC	SR	Fe	Fe	
LMU 1.2L		Chevrolet Beat Premier 1.2L			Oil	69.7	2.0	2.5	NIFF-H	SR	GN	GN	
ECOTEC 14 ECOTEC LLO	1,249	Chevrolet Spark	SWG10051ZZ	4	1st	70.5	1.0	2.3	BF	SR	GN	GN	25191142
					2nd	70.5	1.2	2.55	TUC	CR	Fe	Fe	
					Oil	70.5	2.0	1.95	NIFF-H	SR	GN	GN	
C10NE	999	Corsa Meriva	SWG10055ZZ	4	1st	71.08	1.5	3.0	BF	HB	Cr	Fe	
					2nd	71.08	1.5	3.0	T1	CR	Fe	Fe	
					Oil	71.08	3.0	3.35	NIFF-S	SR	Cr	Fe	
ECOTEC LUJ	1,364	Cruze Encore Sonic Trax	SWG10061ZZ	4	1st	72.5	1.2	2.7	BF-IB	SR	GN	GN	25195065 55571045
					2nd	72.5	1.2	3.0	TUC	CR	Fe	Fe	
					Oil	72.5	2.0	2.6	NIFF-H	SR	Cr	Fe	
S-TEC III 1.4L	1,399	Sail Spin	SWG10034ZZ	4	1st	73.8	1.2	2.5	BF-IB	SR	GN	GN	93736247
					2nd	73.8	1.2	2.8	TUC	HB	Fe	Fe	
					Oil	73.8	2.0	2.45	NIFF-H	SR	GN	GN	
ECOTEC LYX 1.5L (TURBO)	1,490	Equinox Terrain	SWG10058ZZ	4	1st	74.0	1.2	2.7	BF	SR	GN	GN	12682502
					2nd	74.0	1.2	2.9	TUC	CR	Fe	Fe	
					Oil	74.0	2.0	2.8	NIFF-H	SR	GN	GN	
S-TEC III L2B	1,485	Sail 1.5	TCC-R-0862	4	1st	74.7	1.0		BF-IB	SR	GN	GN	93737136
					2nd	74.7	1.0		TUC	SR	Fe	Fe	
					Oil	74.7	2.0		NIFF-H	SR	GN	GN	
S-TEC III 1.5L	1,485	Sail Spin	SWG10046ZZ	4	1st	74.71	1.0	2.25	BF	SR	Cr	Fe	25190067
					2nd	74.71	1.2	2.8	TUC	CR	Fe	Fe	
					Oil	74.71	2.0	2.2	NIFF-H	SR	GN	GN	
E-TEC I 1.3L 13N 13S	1,297	Corsa 1.3	SWG10041ZZ	4	1st	75.0	1.5	3.25	BF-IB	SR	Cr	Fe	93244958
					2nd	75.0	1.5	3.3	T1-IB	CR	Fe	Fe	
					Oil	75.0	3.0	2.9	NIFF-S	SR	Cr	Fe	
E-TEC II 1.5L LV8	1,498	Chevy Taxi Aveo	SWG10030ZZ	4	1st	76.5	1.5	3.1	BF	HB	Cr	Fe	93742961
					2nd	76.5	1.5	3.2	TUC	CR	Fe	Fe	
					Oil	76.5	2.0	2.7	NIFF-H	SR	Cr	Fe	
E-TEC I 1.4L X14XE1	1,389	Corsa 1.4 Evolution	SWG10028ZZ	4	1st	77.6	1.5	2.85	BF-IB	SR	Cr	Fe	93227616
					2nd	77.6	1.5	3.2	TUC	CR	Fe	Fe	
					Oil	77.6	3.0	3.2	NIFF-S	SR	Cr	Fe	
F14D3 85CB 89CB	1,796	Lacetti	SWG10026ZZ	4	1st	77.88	1.2	2.85	BF	SR	Cr	Fe	93740229
					2nd	77.88	1.5	3.3	TUC	CR	Fe	Fe	
					Oil	77.88	2.5	2.9	NIFF-H	SR	Cr	Fe	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>E-TEC I 1.6L X16XE1</b>	1,598	Corsa 1.6	<b>SWG10029ZZ</b>	4	1st	79.0	1.2	3.05	BF	SR	Cr	Fe	93235611
					2nd	79.0	1.5	3.3	TUC	CR	Fe	Fe	
					Oil	79.0	3.0	3.0	NIFF-S	SR	Cr	Fe	
<b>E-TEC II 1.6L L91</b>	1,598	Sonic Aveo Aveo5 Cruze G3(Pontiac)	<b>SWG10054ZZ</b>	4	1st	79.0	1.2	2.7	BF	SR	GN	GN	55581399 93744928
					2nd	79.0	1.2	3.2	TUC	CR	Fe	Fe	
					Oil	79.0	2.0	2.95	NIFF-H	SR	GN	GN	
<b>E-TEC I 1.8L X18XE1</b>	1,796	Corsa 1.8 Evolution	<b>SWG10035ZZ</b>	4	1st	80.5	1.2	3.1	BF	SR	GN	GN	93332835
					2nd	80.5	1.2	3.0	T1	CR	Fe	Fe	
					Oil	80.5	2.0	3.0	NIFF-H	SR	Cr	Fe	
<b>ECOTEC LUW</b>	1,796	Astra Cruze Sonic	<b>SWG10056ZZ</b>	4	1st	80.5	1.2	3.1	BF	SR	GN	GN	55568927 95507585
					2nd	80.5	1.2	3.2	TUC	CR	Fe	Fe	
					Oil	80.5	2.0	2.75	NIFF-H	SR	GN	GN	
<b>SATURN I4 LLO SATURN I4 LKO</b>	1,901	SC SC1 SC2	<b>SWG10020ZX</b>	4	1st	82.0	1.5	3.05	BF	SR	Cr	Fe	21006715 21006721
					2nd	82.0	1.5	3.5	TUC	CR	Fe	Fe	
					Oil	82.0	3.0	3.2	NIFF-S	SR	Cr	Fe	
<b>SATURN I4 L24 SATURN I4 LLO</b>	1,901	SI SC1 SC2	<b>SWG10021ZY</b>	4	1st	82.0	1.2	2.85	BF	SR	Cr	Fe	21007180
					2nd	82.0	1.5	3.5	TUC	CR	Fe	Fe	
					Oil	82.0	3.0	3.2	NIFF-S	SR	Cr	Fe	
<b>ECOTEC LSJ</b>	1,998	Cobalt G5 Alero	<b>SWG10019ZY</b>	4	1st	86.0	1.2	2.9	BF	SR	GN	GN	21018813
					2nd	86.0	1.5	3.5	TUC	CR	Fe	Fe	
					Oil	86.0	2.5	2.85	NIFF-S	SR	Cr	Fe	
<b>ECOTEC 2.2 L61 ECOTEC 2.2 LAP</b>	2,196												
<b>ELLESMERE L81</b>	2,962	Catera L300 LS2	<b>SWG10016ZZ</b>	V6	1st	86.0	1.2	2.9	BF	SR	GN	GN	9118853
					2nd	86.0	1.5	3.5	TUC	CR	Fe	Fe	
					Oil	86.0	3.0	3.05	NIFF-S	SR	GN	GN	
<b>CID 121 GM 122 2.0L</b>	1,983	Sunbird	<b>SWG10010ZZ</b>	4	1st	86.0	1.5	3.3	BF	SR	GN	GN	52273305 52273308
	1,999	Skyhawk			2nd	86.0	1.5	3.6	TUC	CR	Fe	Fe	
					Oil	86.0	3.0	3.05	NIFF-S	SR	GN	GN	
<b>ECOTEC LNF</b>	1,998	Chevrolet Captexiva Sports	<b>SWG10032ZX</b>	4	1st	86.0	1.2	3.1	BF	SR	GN	GN	89018107
					2nd	86.0	1.5	3.5	TUC	CR	Fe	Fe	
					Oil	86.0	2.0	2.75	NIFF-H	SR	GN	GN	
<b>ECOTEC 2.2 LAP</b>	2,201												
<b>Northstar L47</b>	3,995	Aurora	<b>SWG10015ZY</b>	V8	1st	87.0	1.2	2.9	BF	SR	Cr	Fe	12555219
					2nd	87.0	1.5	3.6	TUC	CR	Fe	Fe	
					Oil	87.0	3.0	2.85	NIFF-S	SR	Cr	Fe	
<b>ECOTEC 2.4L</b>	2,384	Equinox LaCrosse Regal	<b>SWG10048ZZ</b>	4	1st	88.0	1.2	2.9	BF-IB	SR	GN	GN	12659419
					2nd	88.0	1.5	4.0	TUC	CR	Cr	Fe	
					Oil	88.0	2.0	2.45	NIFF-H	SR	Cr	Fe	
<b>ECOTEC 2.5L</b>	2,457	HHR Maribu Verano Impala Hybrid Regal Hybrid Terrain											

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>GM 60°L82 GM 60°LG8</b>	3,136	Lumina Monte Carlo Century	<b>SWG10004ZZ</b>	V6	1st	89.0	1.2	3.5	BF	SR	GN	GN	12538683
					2nd	89.0	1.5	3.6	TUC	CR	Fe	Fe	12481987
					Oil	89.0	3.0	2.85	NIFF-S	SR	GN	GN	
<b>GM 60°LE2</b>	2,835	Citation II S-15 Jimmy S-15 Pickup	<b>SWL03235ZX</b>	V6	1st	89.0	1.5	3.25	BF-IB	SR	Cr	Fe	14034969
					2nd	89.0	2.0	4.05	T1	CR	Fe	Fe	
					Oil	89.0	4.76	3.85	NIFF-S	SR	Cr	Fe	
<b>ALLOYTEC 3.2</b>	3,195	Winstorm Winstorm MaXX Captiva Captiva MaXX Antara Escudo	<b>SWG10044ZZ</b>	V6	1st	89.0	1.2	3.1	BF-IB	SR	GN	GN	92068446
					2nd	89.0	1.5	3.25	TUC	CR	Fe	Fe	
					Oil	89.0	2.5	2.85	NIFF-S	SR	GN	GN	
<b>QUAD-4 LD9</b>	2,392	Cabaler Grand AM Malibu	<b>SWG10022ZX</b>	4	1st	90.0	1.2	3.3	BF	SR	GN	GN	24575965
					2nd	90.0	1.5	3.8	T1-RB	CR	Fe	Fe	
					Oil	90.0	3.0	3.25	NIFF-S	SR	Cr	Fe	
<b>QUAD-4 LGO</b>	2,254	Achieva Skylark Grand AM	<b>SWG10014ZZ</b>	4	1st	92.0	1.5	3.3	BF	SR	GN	GN	22548439
					2nd	92.0	1.5	3.7	T1-RB	CR	Fe	Fe	
					Oil	92.0	3.0	3.05	NIFF-S	SR	GN	GN	
<b>GM 60°LA1</b>	3,392	Montana Alero Grand AM	<b>SWG10001ZZ</b>	V6	1st	92.0	1.2	3.3	BF	SR	Cr	Fe	12537866
					2nd	92.0	1.5	3.7	T1	CR	Fe	Fe	
					Oil	92.0	4.0	3.65	NIFF-S	SR	Cr	Fe	
<b>GM 60°LA1</b>	3,392	Alero Aztek	<b>SWG10009ZZ</b>	V6	1st	92.0	1.2	3.3	BF	SR	GN	GN	12481322
					2nd	92.0	1.5	3.8	T1-RB	CR	Fe	Fe	
<b>GM 60°LHJ</b>	3,350	Grand AM			Oil	92.0	3.0	2.55	NIFF-S	SR	GN	GN	
<b>NORTHSTAR L37</b>	4,605	Allante Deville Eldorado	<b>SWG10008ZZ</b>	V8	1st	93.0	1.5	3.3	BF	SR	GN	GN	3543903
					2nd	93.0	1.5	3.9	TUC	CR	Fe	Fe	
					Oil	93.0	3.0	2.85	NIFF-S	SR	GN	GN	
<b>NORTHSTAR L37</b>	4,605	Deville Eldorado Seville	<b>SWG10013ZZ</b>	V8	1st	93.0	1.2	3.5	BF	SR	GN	GN	89017431
					2nd	93.0	1.5	3.9	TUC	CR	Fe	Fe	12555217
					Oil	93.0	3.0	2.85	NIFF-S	SR	GN	GN	
<b>CADILLAC V8 LD8 NORTHSTAR LD8 NORTHSTAR LH2 NORTHSTAR L37</b>	4,605	Deville Eldorado Seville	<b>SWG10011ZZ</b>	V8	1st	93.03	1.2	3.5	BF	SR	GN	GN	89017413
					2nd	93.03	1.5	3.9	TUC	CR	Fe	Fe	12564801
					Oil	93.03	2.5	2.6	NIFF-S	SR	GN	GN	
<b>POWER TECH4.7</b>	4,703												
<b>BUICK 3300</b>	3,343	Cutlass Ciera Cutlass Cruiser	<b>SWG10012ZZ</b>	V6	1st	94.0	1.5	3.5	BF	SR	GN	GN	24501330
					2nd	94.0	1.5	3.7	T1-RB	CR	Fe	Fe	24501065
					Oil	94.0	3.0	3.2	NIFF-S	SR	GN	GN	
<b>HIGH VALUE LX9</b>	3,498	G6 Malibu Montana Relay Rendezvous	<b>SWG10038ZX</b>	V6	1st	94.0	1.2	3.3	BF	SR	GN	GN	12584525
					2nd	94.0	1.5	3.7	T1-RB	CR	Fe	Fe	
					Oil	94.0	2.5	2.7	NIFF-H	SR	Cr	Fe	

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>ALLOYTEC LY7</b>	3,564	Chevrolet Captexiva Sports	<b>SWG10039ZZ</b>	V6	1st	94.0	1.2	2.9	BF-IB	SR	GN	GN	12608615
					2nd	94.0	1.5	3.4	TUC	CR	Fe	Fe	
					Oil	94.0	2.5	2.5	NIFF-H	SR	Cr	Fe	
<b>LLT LLE</b>	3,564	Camaro Acadia CTS	<b>SWG10052ZZ</b>	V6	1st	94.0	1.2	3.3	BF	SR	GN	GN	12616973
					2nd	94.0	1.5	3.4	TUC	CR	Fe	Fe	
					Oil	94.0	2.5	2.5	NIFF-H	SR	Cr	Fe	
<b>VORTEC 3700 LLR ATLAS LLR</b>	3,653	Canyon Colorado H3	<b>SWG10036ZZ</b>	5	1st	95.5	1.2	3.3	BF	SR	GN	GN	89018219
					2nd	95.5	1.5	3.7	TUC	CR	Fe	Fe	
					Oil	95.5	2.5	2.85	NIFF-S	SR	Cr	Fe	
<b>VORTEC 2900 LLV</b>	2,921	Canyon Colorado	<b>SWG10037ZZ</b>	4	1st	95.5	1.2	3.3	BF	SR	GN	GN	89018219
					2nd	95.5	1.5	3.7	TUC	CR	Fe	Fe	
					Oil	95.5	2.5	2.85	NIFF-S	SR	Cr	Fe	
<b>ECOTEC3 L83</b>	5,328	Express G1500 Sierra 1500 Sierra 1500 Denali Silverado 1500 Suburban Tahoe Yukon Yukon XL	<b>SWG10059ZZ</b>	V8	1st	96.0	1.2	3.3	BF	SR	GN	GN	12663865
					2nd	96.0	1.5	3.7	TUC	CR	Fe	Fe	
					Oil	96.0	2.5	2.95	NIFF-H	SR	Cr	Fe	
<b>VORTEC 4800 LR4 VORTEC 4800 LY2 VORTEC 5300 III VORTEC 5300 IV VORTEC 5300 LH6 VORTEC 5300 LH8 VORTEC 5300 LM7 VORTEC 5300 LS4</b>	4,818	Savana	<b>SWG10005ZZ</b>	V8	1st	96.01	1.5	3.3	BF	SR	GN	GN	12456338
	5,328	Express			2nd	96.01	1.5	4.0	TUC	CR	Fe	Fe	
		Sierra 1500			Oil	96.01	3.0	3.2	NIFF-S	SR	GN	GN	
<b>BUICK V6 L27 BUICK V6 L67</b>	3,785	Ninety Eight	<b>SWG10006ZZ</b>	V6	1st	96.5	1.2	3.5	BF	SR	GN	GN	24502947
	3,791	Eighty Eight			2nd	96.5	1.5	3.8	T1-RB	CR	Fe	Fe	
		Bonneville			Oil	96.5	3.0	2.85	NIFF-S	SR	GN	GN	
<b>OLDSMOBILE V8 307</b>	5,031	Caprice Cutlass Delta 88 Electra Ninety Eight	<b>SWG10023ZY</b>	V8	1st	96.5	2.0	3.5	BF	SR	GN	GN	22529562
					2nd	96.5	2.0	4.4	T1-RB	CR	Fe	Fe	
					Oil	96.5	4.76	4.05	NIFF-S	SR	Cr	Fe	
<b>BUICK V6 L26 BUICK V6 L36</b>	3,785	LSS	<b>SWG10003ZZ</b>	V6	1st	96.52	1.2	3.5	BF	SR	GN	GN	12480825 12537410
	3,791	Bonneville			2nd	96.52	1.5	3.8	T1-RB	CR	Fe	Fe	
		Park avenue			Oil	96.52	2.0	2.8	NIFF-H	SR	GN	GN	
<b>HI VALUE LZE</b>	3,510	Monte Carlo Malibu Pontiac G6	<b>SWG10049ZZ</b>	V6	1st	99.0	1.2	3.3	BF	SR	GN	GN	89018067 89018068
					2nd	99.0	1.5	3.75	TUC	CR	Fe	Fe	
					Oil	99.0	2.5	2.85	NIFF-S	SR	GN	GN	



Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>VOTEC 5700 LS1</b> <b>VOTEC 5700 LS6</b>	5,670	Corvette GTO Camaro	<b>SWG10018ZZ</b>	V8	1st	99.0	1.5	3.5	BF	SR	GN	GN	12533556
					2nd	99.0	1.5	4.1	TUC	CR	Fe	Fe	88894247
					Oil	99.0	3.0	3.2	NIFF-S	SR	GN	GN	88894299
<b>ECOTEC3 LV3</b>	4,301	Cutaway Express Savana Sierra Silverado	<b>SWG10062ZZ</b>	V6	1st	99.6	1.2	3.55	BF	SR	GN	GN	12656882
					2nd	99.6	1.5	3.9	TUC	CR	Fe	Fe	12685186
					Oil	99.6	2.5	2.9	NIFF-S	SR	GN	GN	
<b>VOTEC 6000</b>	5,967	Chevrolet Avalanch	<b>SWG10031ZX</b>	V8	1st	101.6	1.2	3.5	BF	SR	GN	GN	89017484
					2nd	101.6	1.5	4.2	TUC	CR	Fe	Fe	
					Oil	101.6	2.5	2.55	NIFF-H	SR	Cr	Fe	
<b>VOTEC 6200</b>	6,162	Chevrolet Corvette Pontiac GTO Cadillac CTS	<b>SWG10050ZZ</b>	V8	1st	103.25	1.5	3.5	BF	SR	GN	GN	19168090
					2nd	103.25	1.5	4.7	TUC	CR	Fe	Fe	
					Oil	103.25	2.5	2.85	NIFF-H	SR	Cr	Fe	
<b>ECOTEC3 L86</b>	6,162	Escalade Escarade EXT Sierra 1500 Silverado 1500 Suburban Tahoe Yukon Yukon XL Yukon Denali	<b>SWG10060ZZ</b>	V8	1st	103.25	1.2	3.5	BF-IB	SR	GN	GN	12663867 12685185
					2nd	103.25	1.5	4.7	TUC	CR	Fe	Fe	
					Oil	103.25	2.5	2.85	NIFF-H	SR	Cr	Fe	

● Diesel-engine Automobiles ● ディーゼル車 ●

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>GM 6.5</b>	6,473	C3500 HD Chery Van Cutaway	<b>SDG10024ZX</b>	V8	1st	103.0	2.8	3.7	BF-K1B	SR	GN	GN	12369198
					2nd	103.0	2.0	4.1	T1-IB	CR	Fe	Fe	
					Oil	103.0	4.0	4.15	E-BC16	SR	GN	GN	
<b>DURAMAX L5P</b>	6,599	Silverado HD GMC Sierra HD Sierra 2500HD Sierra 3500 Silverado 2500HD Silverado 3500HD Silverado 4500HD Silverado 5500HD Silverado 6500HD	<b>SDI10183ZZ (TCC-P-0736)</b>	V8	1st	103.0	2.948	3.95	BF-K1	SR	PC	GN	12686801
					2nd	103.0	2.0	4.4	T1-IC	CR	Cr	Fe	
					Oil	103.0	3.0	3.0	E-BC16	SR	GN	GN	



## ● Gasoline-engine Automobiles ● ガソリン車 ●

Fit for BMW

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>PRICE EP6 N12B16A N13B16A N14B16A</b>	1,598	114i	<b>SWB01003ZZ (TCC-Q-0779)</b>	4	1st	77.0	1.2	2.9	BF	SR	GN	GN	11 25 7 566 479
		116i			2nd	77.0	1.5	3.0	TUC	CR	Fe	Fe	
		118i			Oil	77.0	2.0	2.55	NIFF-H	SR	Cr	Fe	
		316i 320i											
<b>M40B18E</b>	1,796	318i	<b>SWB01004ZZ</b>	4	1st	84.0	1.2	3.1	BF	SR	GN	GN	11 25 7 594 453
		318ic			2nd	84.0	1.5	3.15	TUC	CR	Fe	Fe	
		318ti			Oil	84.0	2.0	2.55	NIFF-H	SR	GN	GN	

## ● Gasoline-engine Automobiles ● ガソリン車 ●

Fit for BENZ

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>M160 E06</b>	599	Smart Fortwo Crossblade	<b>SWD06018ZZ</b>	3	1st	63.5	1.2	2.3	BF	SR	GN	GN	80 00372 1 0 000
					2nd	63.5	1.5	2.3	T1	SR	GN	GN	
					Oil	63.5	2.5	2.5	NIFF-S	SR	GN	GN	

## ● Gasoline-engine Automobiles ● ガソリン車 ●

Fit for FIAT

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>FIRE 1.4</b>	1,368	Punto Panda Bravo Spider	<b>TCC-J-0070</b>	4	1st	72.0	1.2		BF-1B	SR	GN	GN	68149737AB
					2nd	72.0	1.2		TUC	SR	Fe	Fe	
					Oil	72.0	2.0		E-BC16	SR	GN	GN	

## ● Diesel-engine Automobiles ● ディーゼル車 ●

Fit for FIAT

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>199B1.000</b>	1,248	500 Panda Punto Ypsilon	<b>TCC-R-0845</b>	4	1st	69.6	1.5		BF	SR	GN	GN	71749353
					2nd	69.6	1.5		T1	CR	Fe	Fe	
					Oil	69.6	2.0		E-BC16	SR	GN	GN	
<b>F1AE0481C</b>	2,287	Ducato	<b>TCC-R-0846</b>	4	1st	88.0	2.4		BF-K1	SR	GN	GN	2992540
					2nd	88.0	2.0		T1	SR	GN	GN	
					Oil	88.0	2.5		E-BC16	SR	GN	GN	
<b>4P10</b>	2,998	Truck	<b>TCC-R0847</b>	4	1st	95.8	2.35	3.5	BF-K1	SR	GN	GN	2996623
					2nd	95.8	2.0	4.0	T1	HB	Fe	Fe	
					Oil	95.8	2.5	2.85	E-BC16	SR	GN	GN	

## ● Gasoline-engine Automobiles ● ガソリン車 ●

Fit for OPEL

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>C14 X14 C14NZ</b>	1,388	Vita	<b>TCC-R-0824</b>	4	1st	77.6	1.5		BF	SR	GN	GN	630095 90324689 93227616
					2nd	77.6	1.5		TUC	CR	Fe	Fe	
					Oil	77.6	3.0		NIFF-H	SR	Cr	Fe	

## ● Gasoline-engine Automobiles ● ガソリン車 ●

Fit for PEUGEOT

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
TU3 JP	1,360	106 206 306 307 Partner1.4i	SWL04099ZZ (TCC-Q-0791)	4	1st	75.0	1.5	2.7	BF	SR	GN	GN	030 198 151
					2nd	75.0	1.5	3.2	TUC	CR	Fe	Fe	
					Oil	75.0	2.5	2.7	NIFF-H	SR	Cr	Fe	
5FG 5FK 5FU	1,598	Peugeot Partner Citroen Berlingo	TCC-R-0839	4	1st	77.0	1.2		BF	SR	GN	GN	11 25 7 566 479
					2nd	77.0	1.5		TUC	CR	Fe	Fe	
					Oil	77.0	2.0		NIFF-H	SR	GN	GN	
TU5 JP4 NFU NFX	1,587	106 206 307 Partner Saxo Xsara Berlingo C3	SWL04101ZZ (TCC-Q-0809)	4	1st	78.5	1.2	2.9	BF	SR	GN	GN	0640-R5
					2nd	78.5	1.5	3.3	TUC	CR	Fe	Fe	
					Oil	78.5	2.5	2.8	NIFF-H	SR	GN	GN	

## ● Diesel-engine Automobiles ● ディーゼル車 ●

Fit for PEUGEOT

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
DV4TD	1,399	107 1007 206	TCC-H-0028	4	1st	73.7	2.4		BF-K1	HB	Cr	Fe	0640.V9
					2nd	73.7	2.0		T1-RB	CR	Fe	Fe	
					Oil	73.7	2.5		E-BC16	SR	GN	GN	
DV6TED4	1,560	206 307	TCC-H-0026	4	1st	75.0	2.9		BF-K1	SR	GN	GN	0640.S7
					2nd	75.0	2.0		TUC	CR	Fe	Fe	
					Oil	75.0	2.5		E-BC16	SR	GN	GN	

## ● Gasoline-engine Automobiles ● ガソリン車 ●

Fit for RENAULT

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
K7J K4J K4M	1,389	Clio 1.4 Megane Kangoo	SWL04093ZZ (TCC-Q-0792)	4	1st	79.5	1.2	3.1	BF	SR	GN	GN	77 01 471 283
					2nd	79.5	1.5	3.3	TUC	CR	Fe	Fe	
					Oil	79.5	2.5	2.8	NIFF-S	SR	Cr	Fe	
K7M	1,598	Scenic 1.6 Megane Kangoo	SWL04078ZZ	4	1st	79.5	1.5	3.1	BF	SR	GN	GN	77 01 474 857
					2nd	79.5	1.5	3.3	TUC	CR	Fe	Fe	
					Oil	79.5	2.5	2.8	NIFF-S	SR	Cr	Fe	
F4R770 F4R771	1,998	Megane II 2.0 16V Scenic II 2.0 16V	SWL04094ZZ (TCC-Q-0800)	4	1st	82.7	1.2	3.1	BF	SR	GN	GN	77 01 474 725
					2nd	82.7	1.5	3.5	TUC	CR	Fe	Fe	
					Oil	82.7	2.0	3.05	NIFF-H	SR	Cr	Fe	

## ● Gasoline-engine Automobiles ● ガソリン車 ●

Fit for VOLVO

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
B4184S B4204S B4204T3	1,783	S40	SWL04096ZZ (TCC-Q-0778)	4	1st	83.0	1.2	2.9	BF	SR	GN	GN	30731512
					2nd	83.0	1.5	3.45	TUC	CR	Fe	Fe	
	1,948	V40			Oil	83.0	2.5	2.8	NIFF-H	SR	GN	GN	

## ● Gasoline-engine Automobiles ● ガソリン車 ●

## Fit for VOLKS WAGEN

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
<b>AAU AEV 3F AAL ABD</b>	1,043 1,272 1,391	Polo Golf III Vento	<b>TCC-Q-0791</b>	4	1st 2nd Oil	75.0 75.0 75.0	1.5 1.5 2.5		BF TUC NIFF-H	SR CR SR	GN Fe Cr	GN Fe Fe	030 198 151
<b>CFNA BCA BKR BKY BAG BLF BTS</b>	1,391	Bora1.4i Golf IV New Beetle 1.4i 16V	<b>SWL04097ZZ (TCC-Q-0793)</b>	4	1st 2nd Oil	76.5 76.5 76.5	1.2 1.2 2.0	2.9 2.95 2.5	BF-IB T1 NIFF-H	SR CR SR	GN Fe GN	GN Fe GN	03C 198 151 A
<b>EE EF EJ FN YN FR EN ZV WN WE</b>		Jetta Scirocco Golf Rabbit Santana Passat	<b>TCC-Q-0796</b>	4	1st 2nd Oil	79.5 79.5 79.5	1.75 2.0 4.0		BF TUC NIFF-S	SR CR SR	GN Fe Cr	GN Fe Fe	049 198 151 A
<b>ADP AEH AEK AFT AHL AKL ARM</b>	1,595	Golf Passat Bora Polo Vento	<b>SWL04102ZZ (TCC-Q-0810)</b>	4	1st 2nd Oil	81.0 81.0 81.0	1.2 1.5 2.0	2.9 3.4 3.05	BF TUC NIFF-H	SR CR SR	GN Fe GN	GN Fe GN	06B 198 151
<b>ABS ABN AAN ABB</b>	2,226	Audi S4 Audi S6	<b>TCC-R-0827</b>	5	1st 2nd Oil	81.0 81.0 81.0	1.5 1.75 3.0		BF TUC E-BC16	SR CR SR	GN Fe GN	GN Fe GN	026 198 151 A
<b>AGU AUM AEB AUG</b>	1,780	Golf 4 Audi A3	<b>TCC-R-0828</b>	4	1st 2nd Oil	81.0 81.0 81.0	1.5 1.75 2.0		BF TUC E-BC16	SR CR SR	GN Fe GN	GN Fe GN	058 198 151 B
<b>CBTA CBA CCCA BGP BGQ BTK</b>	2,480	Beetle Golf Jetta Passat	<b>SWL04100ZZ (TCC-Q-0797)</b>	5	1st 2nd Oil	82.5 82.5 82.5	1.2 1.5 2.0	2.9 3.0 3.1	BF T1 NIFF-H	SR CR SR	GN Fe GN	GN Fe GN	06D 198 151 C
<b>CDA VAG</b>			<b>SDL04095ZZ (TCC-Q-0798)</b>	4	1st 2nd Oil	82.5 82.5 82.5	1.2 1.2 2.0	3.1 3.1 2.75	BF-IB TUC E-BC16	SR SR SR	GN Fe GN	GN Fe GN	06H 198 151 F
<b>ACK ALG AMX APR AQD</b>	2,771	Passat Santana	<b>TCC-Q-0799</b>	V6	1st 2nd Oil	82.5 82.5 82.5	1.2 1.5 2.0		BF-IB TUC E-BC16	SR CR SR	GN Fe GN	GN Fe GN	06J 198 151 B
<b>BLY BLR BVY BVZ</b>	1,984	Golf Jetta Passat Touran	<b>TCC-Q-0802</b>	4	1st 2nd Oil	82.5 82.5 82.5	1.2 1.5 2.0		BF T1-IB NIFF-H	SR CR SR	GN Fe GN	GN Fe GN	06D 198 151 A
<b>AKR ADY ABA AEG</b>	1,984	Passat Variant	<b>TCC-R-0832</b>	4	1st 2nd Oil	82.5 82.5 82.5	1.2 1.5 2.0		BF T1-IC E-BC16	SR CR SR	GN Fe GN	GN Fe GN	053 198 151 C

## ● Diesel-engine Automobiles ● ディーゼル車 ●

## Fit for VOLKS WAGEN

Engine Type	Exhaust quantity (c.c.)	Vehicle Model Chassis Type	NPR Catalog Code	Cyl No.	Position	Size (mm)			Shape	Material	Surface Treatment		Reference
						d 1 (D)	h 1 (B)	a 1 (T)			Outside	Upper/Lower	
AHU AUY KY LX	1,896	Audi A3 Bora 1 Golf 4	TCC-R-0829	4	1st	79.5	1.75		BF T1-RB E-BC16	SR CR SR	GN Fe GN	GN Fe GN	038 198 151
					2nd	79.5	2.0						
					Oil	79.5	3.0						
AZV BDJ BDK BKD BMM BMN BST AAC AAF ACU	1,968	Golf Caddy Jetta Touran T4 T4Syncro	SDL04092ZZ (TCC-Q-0777)	4	1st	81.0	1.75	2.9	BF T1-RB E-BC16	SR CR SR	GN Cr GN	GN Fe GN	03L 198 151 C
					2nd	81.0	2.0	3.4					
					Oil	81.0	3.0	3.25					



# CYLINDER LINER



DAIHATSU

HINO

ISUZU

KOMATSU

MITSUBISHI

UD TRUCKS

TOYOTA

MAZDA

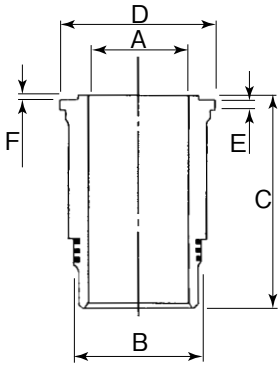
KIA

DAIHATSU  
HINO  
ISUZU  
KOMATSU  
MITSUBISHI  
UD TRUCKS  
TOYOTA  
MAZDA  
KIA

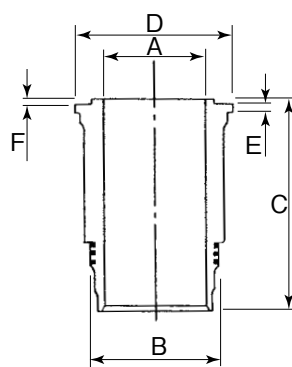
D01	D02	D03	D04
D05			
W01	W02	W03	W04
W05	W06	W07	W08



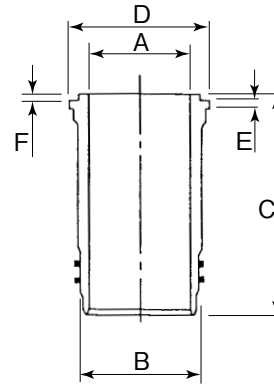
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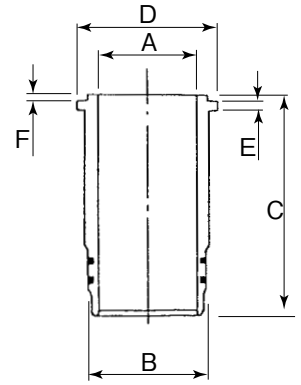
W10



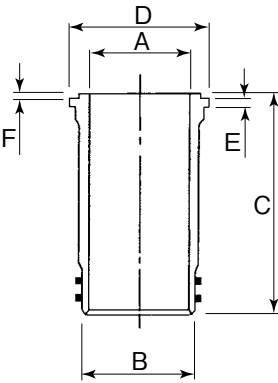
W11



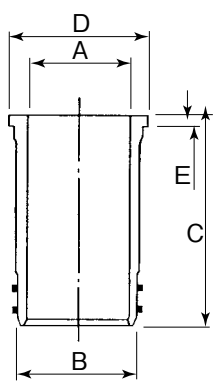
W12



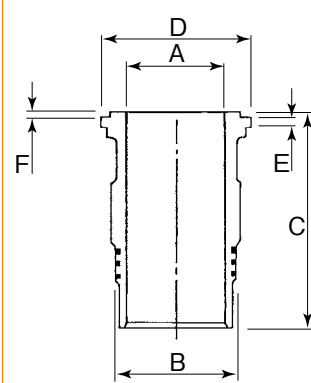
W13



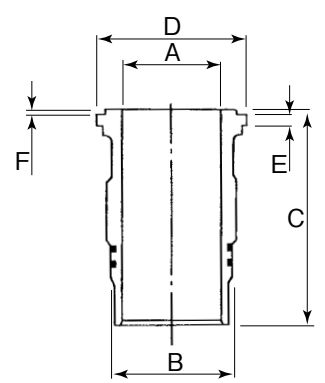
W14



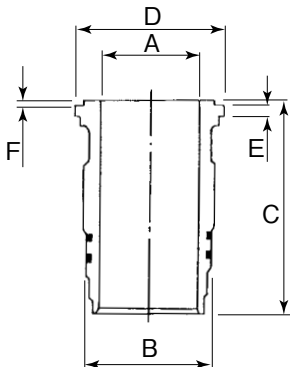
W15



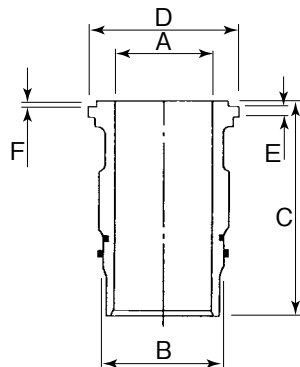
W16



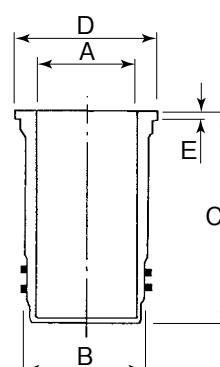
W17



W18



W19



Surface Treatment

- DC..... Water jacket only is chromium plated
- F..... Phosphated (all over)
- CF..... Outside chromium plated + phosphated
- CM..... Inside chromium plated
- NF..... Nitrided + Phosphated
- NON... Without any surface treatment

ライナ表面処理

- DC..... 外周 W/J 部のみクロムメッキ
- F..... 燐酸塩被膜処理
- CF..... 外周クロム + 燐酸塩皮膜処理
- CM..... 内周クロム
- NF..... 窒化 + 燐酸塩皮膜処理
- NON... 表面処理なし

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KOMATSU  
MITSUBISHI  
UD TRUCKS  
TOYOTA  
MAZDA  
KIA

# The world standard cylinder liners



**NIPPON PISTON RING CO.,LTD.**

5-12-10, Honmachi-Higashi, Chuo-ku, Saitama City, Saitama, 338-8503 JAPAN

<http://www.npr.co.jp/>

Engine Type	Exhaust quantity (c.c.)	Cyl No.	NPR Product Code	Bore/A	Type	Surface	Finish/Semi	Size (mm)					Reference
								Grade	B	C	D	E	
DG	2,530	4	L12752-AC	88.00	D03	NON	F	1	93.00	182.00	97.00	7.00	992-5113-91171-6
			L12752-AC	88.00	D03	NON	F	2	93.00	182.00	97.00	7.00	992-5113-91171-7
			L12752-AC	88.00	D03	NON	F	3	93.00	182.00	97.00	7.00	992-5113-91171-8
DR	2,530	4	L12752-BB	87.60	D03	NON	S	1	93.00	182.00	97.00	3.00	11461-87380
			L12752-BB	87.60	D03	NON	S	2	93.00	182.00	97.00	3.00	11462-87380
			L12752-BB	87.60	D03	NON	S	3	93.00	182.00	97.00	3.00	11463-87380
DL (NEW)	2,765	4	L55903-AA	92.00	D03	NON	S		96.00	178.00	101.00	3.00	11461-87305

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Engine Type	Exhaust quantity (c.c.)	Cyl No.	NPR Product Code	Bore/A	Type	Surface	Finish/Semi	Size (mm)					Reference
								Grade	B	C	D	E	
<b>DM100</b>	4,313	4	L12732-CC	90.00	W02	NON	F		104.50	198.50	110.00	9.00	11467-1330, -1401, -1440
<b>EC100</b>	5,010	4	L15137-BA	97.00	W02	NON	F		110.50	206.00	117.00	10.00	11467-1130
<b>W04CTi</b>	4,009	4	L16188CPB	104.00	D02	NF	F	A	107.00	200.00	112.00	8.00	11467-2181A
			L16188CQB	104.00	D02	NF	F	B	107.00	200.00	112.00	8.00	11467-2191A
			L16188CSB	104.00	D02	NF	F	C	107.00	200.00	112.00	8.00	11467-2211A
<b>W04D W06D W06E N04C</b>	5,759	4, 6	L16188DFB	104.00	D02	F	F	A	107.00	200.00	112.00	8.00	11467-1762A, 11461-78021
			L16188DGB	104.00	D02	F	F	B	107.00	200.00	112.00	8.00	11467-1772A, 11461-78031
			L16188DHB	104.00	D02	F	F	C	107.00	200.00	112.00	8.00	11467-1792A, 11461-78051
			L16188CTA	104.00	D03	F	F	W	107.00	201.00	112.00	8.00	11467-1761A
			L16188CUA	104.00	D03	F	F	X	107.00	201.00	112.00	8.00	11467-1771A
			L16188CVA	104.00	D03	F	F	Y	107.00	201.00	112.00	8.00	11467-1781A
			L16188CWA	104.00	D03	F	F	Z	107.00	201.00	112.00	8.00	11467-1791A
<b>N04C</b>	5,759	4, 6	L16188EFA	104.00	D02	F	F	A	107.00	200.00	112.00	3.00	11462-78030
			L16188EGA	104.00	D02	F	F	B	107.00	200.00	112.00	3.00	11463-78030
			L16188EHA	104.00	D02	F	F	C	107.00	200.00	112.00	3.00	11464-78030
<b>EH100</b>	5,871	6	L16048-BE	105.00	D03	NON	F		110.00	206.00	115.00	8.00	11461-1060A
<b>H06BTi H06BT</b>	6,224	6	L16163BZA	105.80	D03	NF	F	W	110.00	204.00	118.00	8.00	11467-2740A, 11467-1921A
			L16163CAB	105.80	D03	NF	F	X	110.00	204.00	118.00	8.00	11467-2750A, 11467-1931A
			L16163CBA	105.80	D03	NF	F	Y	110.00	204.00	118.00	8.00	11467-2760A, 11467-1941A
			L16163CCA	105.80	D03	NF	F	Z	110.00	204.00	118.00	8.00	11467-2770A, 11467-1951A
<b>EH300</b>	6,211	6	L16071-ZA	108.00	D03	NON	F	AA	112.00	204.00	118.00	8.00	11467-1010A
			L16071AAA	108.00	D03	NON	F	BB	112.00	204.00	118.00	8.00	11467-1020B
<b>EH700 H07CT</b>	6,443	6	L16100AJA	110.00	D03	F	F	W	113.00	204.00	118.00	8.00	11467-1200, -1201, -1202
			L16100AKA	110.00	D03	F	F	X	113.00	204.00	118.00	8.00	11467-1210, -1211, -1212
			L16100ALA	110.00	D03	F	F	Y	113.00	204.00	118.00	8.00	11467-1220, -1221, -1222
			L16100AMA	110.00	D03	F	F	Z	113.00	204.00	118.00	8.00	11467-1230, -1231, -1232

Engine Type	Exhaust quantity (c.c.)	Cyl No.	NPR Product Code	Bore/A	Type	Surface	Finish/Semi	Size (mm)					Reference
								Grade	B	C	D	E	
<b>EH500 H06CT</b>	6,485	6	L16163BMA	108.00	D03	F	F	W	113.00	204.00	118.00	8.00	11467-1592A
			L16163BNA	108.00	D03	F	F	X	113.00	204.00	118.00	8.00	11467-1602A
			L16163BPA	108.00	D03	F	F	Y	113.00	204.00	118.00	8.00	11467-1612A
			L16163BQA	108.00	D03	F	F	Z	113.00	204.00	118.00	8.00	11467-1622A
<b>H07BTi</b>	6,224	6	L16567-DA	105.80	D03	F	F	W	113.00	203.00	118.00	8.00	11467-2900A
			L16567-EA	105.80	D03	F	F	X	113.00	203.00	118.00	8.00	11467-2910A
			L16567-FA	105.80	D03	F	F	Y	113.00	203.00	118.00	8.00	11467-2920A
			L16567-GA	105.80	D03	F	F	Z	113.00	203.00	118.00	8.00	11467-2930A
<b>H08C J08 J05C</b>	7,961	4, 6	L16521ECA	114.00	D02	F	F	A	117.00	203.00	122.00	8.00	11467-2601B
			L16521EKA	114.00	D02	F	F	A	117.00	203.00	122.00	3.00	11462-E0090
			L16521EDA	114.00	D02	F	F	B	117.00	203.00	122.00	8.00	11467-2611B / 11467-2790
			L16521ELA	114.00	D02	F	F	B	117.00	203.00	122.00	3.00	11463-E0060
			L16521EEA	114.00	D02	F	F	C	117.00	203.00	122.00	8.00	11467-2621B
			L16521EMA	114.00	D02	F	F	C	117.00	203.00	122.00	3.00	11464-E0060
			L16521DZA	114.00	D03	F	F	A	117.00	204.00	122.00	8.00	11467-2601A
			L16521EAA	114.00	D03	F	F	B	117.00	204.00	122.00	8.00	11467-2611A
			L16521EBA	114.00	D03	F	F	C	117.00	204.00	122.00	8.00	11467-2621A
<b>J08BTi</b>		6	L16567-LA	110.90	D03	NF	F	A	117.00	204.00	122.00	8.00	11467-3070A
			L16567-MA	110.90	D03	NF	F	B	117.00	204.00	122.00	8.00	11467-3080A
			L16567-NA	110.90	D03	NF	F	C	117.00	204.00	122.00	8.00	11467-3090A
<b>YJ75 S05D</b>			L16568-YB	114.00	D02	F	F	A	117.00	186.50	122.00	8.00	11467-2941A, 11461-78090
			L16568-ZB	114.00	D02	F	F	B	117.00	186.50	122.00	8.00	11467-2951A, 11461-78100
			L16568AAB	114.00	D02	F	F	C	117.00	186.50	122.00	8.00	11467-2961A, 11461-78110
<b>J05D</b>		4	L16568ADB	112.00	D02	F	F	A	117.00	186.50	122.00	8.00	11467-3170, S1146-73170
			L16568AEB	112.00	D02	F	F	B	117.00	186.50	122.00	8.00	11467-3180, S1146-73180
			L16568AFB	112.00	D02	F	F	C	117.00	186.50	122.00	8.00	11467-3190, S1146-73190

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Engine Type	Exhaust quantity (c.c.)	Cyl No.	NPR Product Code	Bore/A	Type	Surface	Finish/Semi	Size (mm)					Reference
								Grade	B	C	D	E	
<b>J08E</b>		6	L16576-YB	112.00	D02	F	F	A	117.00	203.00	122.00	8.00	11467-3200B/S1146-73200
			L16576-ZB	112.00	D02	F	F	B	117.00	203.00	122.00	8.00	11467-3210B/S1146-73210
			L16576AAB	112.00	D02	F	F	C	117.00	203.00	122.00	8.00	11467-3220B/S1146-73220
			L16576BGA	112.00	D02	F	F	A	117.00	203.00	122.00	3.00	11462-E0080
			L16576BHA	112.00	D02	F	F	B	117.00	203.00	122.00	3.00	11463-E0050
			L16576BJA	112.00	D02	F	F	C	117.00	203.00	122.00	3.00	11464-E0050
<b>A09</b>		6	L16603-KA	112.00	D02	F	F	A	117.00	228.00	123.00	3.00	11462-E0010
			L16603-LA	112.00	D02	F	F	B	117.00	228.00	123.00	3.00	11463-E0010
			L16603-MA	112.00	D02	F	F	C	117.00	228.00	123.00	3.00	11464-E0010
<b>P09BTi P09BT</b>			L16227ABB	117.80	D03	NF	F	A	122.80	234.70	132.00	8.00	11467-2100A, 1970A
			L16227ACB	117.80	D03	NF	F	B	122.80	234.70	132.00	8.00	11467-2110A, 1980A
			L16227ADB	117.80	D03	NF	F	C	122.80	234.70	132.00	8.00	11467-2120A, 1990A
<b>P10CTI</b>			L16561-LA	117.80	D03	NF	F	A	122.80	222.80	132.00	8.00	11467-2810A
			L16561-MA	117.80	D03	NF	F	B	122.80	222.80	132.00	8.00	11467-2820A
			L16561-NA	117.80	D03	NF	F	C	122.80	222.80	132.00	8.00	11467-2830A
<b>EP100</b>	8,821	6	L16183DSA	120.00	D03	F	F	A	125.00	236.00	132.00	8.00	11467-1731A
			L16183DTA	120.00	D03	F	F	B	125.00	236.00	132.00	8.00	11467-1741
			L16183DUA	120.00	D03	F	F	C	125.00	236.00	132.00	8.00	11467-1751
<b>P11C</b>	10,520	6	L16536BHA	122.00	D03	F	F	A	127.00	229.00	134.00	8.00	11467-3130A
			L16536BJA	122.00	D03	F	F	B	127.00	229.00	134.00	8.00	11467-3140A
			L16536BKA	122.00	D03	F	F	C	127.00	229.00	134.00	8.00	11467-3150A
			L16536BHB	122.00	D02	F	F	A	127.00	228.00	134.00	8.00	11462-E0160
			L16536BJB	122.00	D02	F	F	B	127.00	228.00	134.00	8.00	11463-E0130
			L16536BKB	122.00	D02	F	F	C	127.00	228.00	134.00	8.00	11464-E0130

Engine Type	Exhaust quantity (c.c.)	Cyl No.	NPR Product Code	Bore/A	Type	Surface	Finish/Semi	Size (mm)					Reference
								Grade	B	C	D	E	
<b>P11BTi</b>		6	L16567-HA	121.99	D03	NF	F	A	127.00	229.00	134.00	8.00	11467-3000A
			L16567-JA	121.99	D03	NF	F	B	127.00	229.00	134.00	8.00	11467-3010A
			L16567-KA	121.99	D03	NF	F	C	127.00	229.00	134.00	8.00	11467-3020A
<b>EL100</b>		6	L16081-DC	116.00	W11	NON	F		129.00	222.80	138.00	9.00	11467-1240
<b>EM100</b>	9,419	6	L16125AJA	124.00	D03	F	F	A	129.00	236.00	134.00	8.00	11467-1661, -1662
			L16125AKA	124.00	D03	F	F	B	129.00	236.00	134.00	8.00	11467-1671, -1672A
<b>M10U</b>	9,880	6	L16218AEA	127.00	D03	F	F	A	130.30	236.00	135.20	8.00	11467-2000A
			L16218AFA	127.00	D03	F	F	B	130.30	236.00	135.20	8.00	11467-2010A
			L16218AGA	127.00	D03	F	F	C	130.30	236.00	135.20	8.00	11467-2020A
			L16218AHA	127.00	D03	F	F	D	130.30	236.00	135.20	8.00	11467-2030A
<b>EB300 EB400</b>		6	L16132-AB	120.00	W02	NON	F		136.00	287.30	143.00	11.10	11467-1180
<b>E13C</b>	12,913	6	L16577-QB	137.00	D03	F	F	A	142.00	251.00	149.60	5.00	11462-E0030
			L16577-RB	137.00	D03	F	F	B	142.00	251.00	149.60	5.00	11463-E0030
			L16577-SB	137.00	D03	F	F	C	142.00	251.00	149.60	5.00	11464-E0030
<b>ED100</b>	11,581	6	L12770-RC	128.00	W11	NON	F		144.00	291.00	151.00	11.10	11461-1010B, 11467-1370A
<b>EF100</b>	13,804	8	L12742-EJ	130.00	W11	NON	F		146.00	247.80	157.00	12.12	11467-1110
<b>EG100</b>	14,886	6	L16035-AH	135.00	W11	NON	F		151.00	247.80	162.00	12.10	11467-1120
<b>EF300</b>	14,886	8	L16086-GA	132.00	W11	NON	F		151.00	247.80	162.00	13.62	11467-1071
<b>F20C V25C</b>	19,688 24,610	8, 10	L16512BUA	146.00	D03	F	F	A	152.00	244.60	159.00	8.00	11467-2280B, 2490A
			L16512BVA	146.00	D03	F	F	B	152.00	244.60	159.00	8.00	11467-2290B, 2500A
			L16512BWA	146.00	D03	F	F	C	152.00	244.60	159.00	8.00	11467-2300B, 2510A
<b>EF500</b>		8	L16093-BA	135.00	W11	NON	F		153.00	247.80	165.00	13.62	11467-1101
<b>EF700 EF750</b>	16,745	8	L16094-GB	137.00	W11	NON	F		153.00	247.80	165.00	12.12	11461-1081C 11467-1091B (11461-1480B) (11467-1900A)
<b>EF550</b>	16,260	8	L16179-BC	135.00	W11	NON	F		153.00	247.80	165.00	12.12	11467-1690

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Engine Type	Exhaust quantity (c.c.)	Cyl No.	NPR Product Code	Bore/A	Type	Surface	Finish/Semi	Size (mm)				Reference	
								Grade	B	C	D		E
<b>EK100 K13D</b>	13,267	6	L16195-GB	137.00	W11	NON	F		153.00	266.80	164.00	12.12	11467-1080, 11467-1650, 11467-1910
<b>F17D</b>	17,238	8	L16523-AC	137.00	W11	F	F		153.00	248.00	165.00	12.00	11467-2270
<b>YJ38 K13C</b>	12,882	6	L16542-TC	135.00	W11	F	F		153.00	266.80	164.00	12.08	11467-1960A, 11467-2380B
<b>F17C</b>	16,745	8	L16706-AA	139.00	W11	F	F		154.00	248.00	166.00	12.00	11467-1702A (w/o outside chromium plating)
<b>F20CE</b>	19,688	8	L16512CAA	146.00	D03	F	F	D	154.00	244.60	161.00	8.50	11467-2680A
			L16512CBA	146.00	D03	F	F	E	154.00	244.60	161.00	8.50	11467-2690A
			L16512CCA	146.00	D03	F	F	F	154.00	244.60	161.00	8.50	11467-2700A
<b>F21C</b>	20,781	8	L16555-YA	150.00	D03	F	F	D	154.00	244.60	161.00	8.50	11467-3030A, -2650A
			L16555-ZA	150.00	D03	F	F	E	154.00	244.60	161.00	8.50	11467-3040A, -2660A
			L16555AAA	150.00	D03	F	F	F	154.00	244.60	161.00	8.50	11467-3050A, -2670A
<b>F21C V26C</b>	20,781 25,977	8, 10	L16555-TB	150.00	D03	F	F		154.00	244.60	161.00	8.50	11467-2650A
<b>K13BTI</b>		6	L16543-AA	132.90	W03	NF	F		155.00	266.80	164.00	12.08	11461-1810A, 11467-2480A
<b>V22C</b>	21,548	10	L16504-BB	139.00	W11	NON	F		156.00	247.80	167.00	12.10	11467-2130
<b>V22D</b>	21,548	10	L16504-ND	139.00	W11	F	F		156.00	247.80	167.00	12.00	11467-2320

Engine Type	Exhaust quantity (c.c.)	Cyl No.	NPR Product Code	Bore/A	Type	Surface	Finish/Semi	Size (mm)				Reference	
								Grade	B	C	D		E
<b>C190</b>	1,951	4	L65001-DA	86.00	D04	CM	F		88.00	163.00	94.00	0.82	8-97176-659-0/660-0 8-97176-661-0/662-0 8-97176-663-0/664-0 8-97176-665-0/666-0
<b>C240</b>	2,369	4	L65002-DA	86.00	D04	CM	F		88.00	178.00	94.00	0.82	8-97176-896-0/897-0 8-97176-898-0/899-0 8-97176-900-0/901-0 8-97176-902-0/903-0
<b>C223</b>	2,238	4	L65003-DA	88.00	D04	CM	F		90.00	163.00	95.00	0.82	8-97176-675-0/676-0 8-97176-677-0/678-0 8-97176-679-0/680-0 8-97176-681-0/682-0
<b>4JA1</b>		4	L65004-DA	93.00	D04	CM	F		95.00	156.00	101.00	0.82	8-97176-691-0/692-0 8-97176-693-0/694-0 8-97176-695-0/696-0 8-97176-697-0/698-0
<b>4JB1</b>	2,771	4	L65005-DA	93.00	D04	CM	F		95.00	181.00	101.00	0.82	8-97176-683-0/684-0 8-97176-685-0/686-0 8-97176-687-0/688-0 8-97176-689-0/690-0
<b>4JG2 4JH1 4JH1T</b>	3,059	4	L65013-DA	95.40	D04	CM	F		97.00	178.00	102.42	1.15	8-97176-699-0/700-0 8-97176-701-0/702-0 8-97176-703-0/704-0 8-97176-705-0/706-0
<b>4BA1</b>		4	L65006-DA	98.00	D04	CM	F		101.00	156.00	108.00	1.32	8-97176-904/905 8-97176-906/907 8-97176-908/909 8-97176-910/911
<b>4BC2</b>		4	L66007-DA	102.00	D04	CM	F		105.00	187.00	112.00	1.32	8-97176-707-1/708-1 8-97176-709-1/710-1 8-97176-711-1/712-1 8-97176-713-1/714-1
<b>6BB1 6BD1 6BD1T 4BB1 4BD1 4BD1T</b>		4, 6	L66008-DA	102.00	D04	CM	F		105.00	204.00	112.00	1.32	1-11261-240-0/241-0 1-11261-242-0/243-0 1-11261-244-0/245-0 1-11261-246-0/247-0

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Engine Type	Exhaust quantity (c.c.)	Cyl No.	NPR Product Code	Bore/A	Type	Surface	Finish/Semi	Size (mm)					Reference
								Grade	B	C	D	E	
<b>4BE1</b>		4	L66009-DA	105.00	D04	CM	F		107.00	187.00	113.00	1.32	8-97176-715-0/716-0 8-97176-717-0/718-0 8-97176-719-0/720-0 8-97176-721-0/722-0
<b>6BG1</b>		6	L66010-DA	105.00	D04	CM	F		107.00	203.00	113.00	1.32	1-11261-248-0/249-0 1-11261-250-0/251-0 1-11261-252-0/253-0 1-11261-254-0/255-0
<b>6HE1TC</b>	7,172	6	L16549-QC	110.00	D02	F	F	1X	113.00	210.00	119.70	6.00	8-94391-600-0
			L16549-RC	110.00	D02	F	F	3X	113.00	210.00	119.70	6.00	8-94391-601-0
			L16549-BE	110.00	D02	F	F		113.00	210.00	119.70	6.00	8-94394-563-1
<b>DA120</b>	6,126	6	L22090ALA	100.00	W03	NON	F	A	113.00	220.00	116.00	10.00	9-11261-301-1
			L22090AJB	100.00	W03	NON	F	B	113.00	220.00	119.00	8.00	9-11261-095-0, 9-11261-095-1, 9-11261-287-1
<b>DA640</b>	6,373	6	L22498-KA	102.00	W19	NON	F		113.00	220.00	119.00	8.00	9-11261-293-0
			L22540-UB	102.00	W19	NON	F		113.00	228.00	119.00	8.00	9-11261-288-0, 9-87692-096
<b>4HE1</b>	4,751	4	L66014BCA	110.00	D03	F	F	OD=1X	115.00	210.00	120.70	5.65	8-97176-723 / 724
			L66014CCA	110.00	D03	F	F	OD=3X	115.00	210.00	120.70	5.65	8-97176-725 / 726
<b>4HF1 6HF1</b>	4,334	4,	L16639-AA	112.00	D02	F	F	OD=1X	115.00	180.00	121.70	6.00	8-97176-727 8-94389-276
		6	L16639-BA	112.00	D02	F	F	OD=3X	115.00	180.00	121.70	6.00	8-97176-728 8-94389-276
<b>6HH1 6HK1</b>	8,226	6	L16549ADD	115.00	D02	F	F	1X	118.00	210.00	123.70	6.00	8-94391-602 8-94393-273 8-98014-046-0
			L16549AED	115.00	D02	F	F	3X	118.00	210.00	123.70	6.00	8-94391-603 8-94393-273 8-98014-047-0
<b>6HL 4HL</b>	4,777	4,	L16549-VD	115.00	D02	F	F	1X	118.00	183.00	123.70	6.00	8-98014-042-0 8-97600-240-2
	7,166	6	L16549-WD	115.00	D02	F	F	3X	118.00	183.00	123.70	6.00	8-98014-043-0 8-97600-241-2
<b>4HG1</b>	4,751	4	L16554-LC	115.00	D02	F	F	1X	118.00	180.00	123.70	6.00	8-98014-048-0
			L16554-MC	115.00	D02	F	F	3X	118.00	180.00	123.70	6.00	8-98014-049-0

Engine Type	Exhaust quantity (c.c.)	Cyl No.	NPR Product Code	Bore/A	Type	Surface	Finish/Semi	Size (mm)					Reference
								Grade	B	C	D	E	
<b>6SA1</b>	8,413	6	L16107AEA	115.00	D05	NON	F	1AX	119.00	216.00	125.70	6.00	1-11261-347-0
			L16107AFA	115.00	D05	NON	F	1CX	119.00	216.00	125.70	6.00	1-11261-348-0
			L16107AGA	115.00	D05	NON	F	2AX	119.00	216.00	125.70	6.00	1-11261-349-0
			L16107AHA	115.00	D05	NON	F	2CX	119.00	216.00	125.70	6.00	1-11261-350-0
			L16107AJA	115.00	D05	NON	F	3AX	119.00	216.00	125.70	6.00	1-11261-351-0
			L16107AKA	115.00	D05	NON	F	3CX	119.00	216.00	125.70	6.00	1-11261-352-0
<b>6UZ1</b>		6	L16640-AB	120.00	D05	NON	F	1X/AX	123.00	239.20	129.70	6.00	1-11261-368-1
			L16640-BB	120.00	D05	NON	F	1X/CX	123.00	239.20	129.70	6.00	1-11261-369-1
			L16640-CB	120.00	D05	NON	F	3X/AX	123.00	239.20	129.70	6.00	1-11261-370-1
			L16640-DB	120.00	D05	NON	F	3X/CX	123.00	239.20	129.70	6.00	1-11261-371-1
<b>6UZ1-F</b>		6	L16640-EB	120.00	D03	F	F	1X/AX	123.00	239.20	129.70	6.00	
			L16640-FB	120.00	D03	F	F	1X/CX	123.00	239.20	129.70	6.00	
			L16640-GB	120.00	D03	F	F	3X/AX	123.00	239.20	129.70	6.00	
			L16640-HB	120.00	D03	F	F	3X/CX	123.00	239.20	129.70	6.00	
<b>6SD1 6SD1T</b>	9,839	6	L16642-AA	120.00	D05	NON	F	1X/AX	123.00	239.20	129.70	6.00	1-11261-298-0
			L16642-BA	120.00	D05	NON	F	1X/CX	123.00	239.20	129.70	6.00	1-11261-299-0
			L16642-CA	120.00	D05	NON	F	3X/AX	123.00	239.20	129.70	6.00	1-11261-300-0
			L16642-DA	120.00	D05	NON	F	3X/CX	123.00	239.20	129.70	6.00	1-11261-301-0
<b>6SD1-F</b>	9,839	6	L16642-EA	120.00	D05	F	F	1X/AX	123.00	239.20	129.70	6.00	
			L16642-FA	120.00	D05	F	F	1X/CX	123.00	239.20	129.70	6.00	
			L16642-GA	120.00	D05	F	F	3X/AX	123.00	239.20	129.70	6.00	
			L16642-HA	120.00	D05	F	F	3X/CX	123.00	239.20	129.70	6.00	

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Engine Type	Exhaust quantity (c.c.)	Cyl No.	NPR Product Code	Bore/A	Type	Surface	Finish/Semi	Size (mm)					Reference
								Grade	B	C	D	E	
<b>10PA1</b> <b>10PB1</b> <b>12PA1</b> <b>12PB1</b> <b>8PA1</b> <b>8PB1</b>	9,971 12,464 14,957	8, 10, 12	L16047CNA	115.00	W11	NON	F		130.00	219.25	141.70	10.00	1-11261-063-0
<b>PA1</b> <b>PB1</b>		8, 10, 12	L16047CYA	115.00	W11	NON	F	AX	130.00	219.25	141.70	10.00	1-11261-256-0
			L16047CZA	115.00	W11	NON	F	CX	130.00	219.25	141.70	10.00	1-11261-256-0
<b>8PE1</b> <b>10PE1</b> <b>12PE1</b>		8, 10, 12	L16531-PF	127.00	D02	F	F		130.60	233.00	136.60	6.00	1-11261-175-1
<b>PE1</b>		8, 10	L16531AHC	127.00	D02	F	F	1X	130.60	233.00	136.60	6.00	1-11261-202-0, 1-11261-372-1
			L16531AJC	127.00	D02	F	F	3X	130.60	233.00	136.60	6.00	1-11261-203-0, 1-11261-373-1
<b>12PB1T</b>	11,217 14,022 16,826	8, 10, 12	L16047CXA	115.00	W07	NON	F		133.00	219.25	143.70	10.00	1-11261-104-0
<b>8PB1MTC</b>		8, 10, 12	L16047CWB	115.00	W07	NON	F		133.00	219.25	143.70	10.00	1-11261-155-0
<b>PC1</b>	15,014	8, 10, 12	L16177-TA	119.00	W18	NON	F	AX	133.00	219.25	143.70	10.00	1-11261-264-0
			L16177-VA	119.00	W18	NON	F	AX	133.00	219.25	143.70	10.00	1-11261-272-0
			L16177-UA	119.00	W18	NON	F	CA	133.00	219.25	143.70	10.00	1-11261-265-0
			L16177-WA	119.00	W18	NON	F	CX	133.00	219.25	143.70	10.00	1-11261-273-0
			L16177-SA	119.00	W18	NON	F		133.00	219.25	143.70	10.00	1-11261-111-0
<b>10PD1</b>	16,683	10	L56017ABA	119.00	W18	NON	F	ID=AX	133.00	234.30	143.70	10.00	1-11261-282
			L56017BBA	119.00	W18	NON	F	ID=CX	133.00	234.30	143.70	10.00	1-11261-283
			L56017-BA	119.00	W18	NON	F		133.00	234.30	143.70	10.00	1-11261-161
<b>6WA1TC</b>	12,068	6	L16520-WD	132.90	D02	F	F	1X	137.00	266.00	143.70	6.00	1-11261-362-1
			L16520-XD	132.90	D02	F	F	3X	137.00	266.00	143.70	6.00	1-11261-363-1
<b>E110</b>	9,203	6	L12538-QA	125.00	W16	NON	F		140.00	281.30	147.00	11.00	9-11261-228-0
<b>6QA1</b>	9,203	6	L12635-ZB	125.00	W16	NON	F		140.00	282.00	147.00	11.00	1-11261-061-1

Engine Type	Exhaust quantity (c.c.)	Cyl No.	NPR Product Code	Bore/A	Type	Surface	Finish/Semi	Size (mm)				Reference	
								Grade	B	C	D		E
<b>D920</b>	9,203	6	L12635AEA	125.00	W12	NON	F	AX	140.00	256.30	147.00	11.00	1-11261-335-0
			L12635AFA	125.00	W12	NON	F	CX	140.00	256.30	147.00	11.00	1-11261-336-0
<b>6QA1</b>	11,044	6	L56019AHA	125.00	W16	DC	F	ID=AX	140.00	257.00	147.00	5.65	1-11261-290
			L56019ABA	125.00	W16	NON	F	ID=AX	140.00	257.00	147.00	5.65	(1-11261-290)
			L56019BHA	125.00	W16	DC	F	ID=CX	140.00	257.00	147.00	5.65	1-11261-291
			L56019BBA	125.00	W16	NON	F	ID=CX	140.00	257.00	147.00	5.65	(1-11261-291)
			L56019-HA	125.00	W16	DC	F		140.00	257.00	147.00	5.65	1-11261-160
<b>6RA1 6RB1</b>	13,741	6	L12760ADA	135.00	D02	F	F	1	141.00	264.00	146.70	6.00	1-11261-204-0
			L12760AEA	135.00	D02	F	F	2	141.00	264.00	146.70	6.00	1-11261-208-0
<b>6RB1MTC</b>	13,741	6	L12760ABC	132.90	D03	F	F	1	141.00	265.90	146.70	6.00	1-11261-202-0
			L12760ACC	132.90	D03	F	F	2	141.00	265.90	146.70	6.00	1-11261-203-0
<b>6RB1X</b>	13,741	6	L12760-ZB	135.00	D02	F	F	1	141.00	264.00	146.70	6.00	1-11261-288-0
			L12760AAB	135.00	D02	F	F	2	141.00	264.00	146.70	6.00	1-11261-289-0
<b>6WG1UMTC</b>		6	L16552-TA	142.90	D05	F	F	1X	151.50	267.00	158.30	6.00	1-11261-392-0
			L16552-UA	142.90	D05	F	F	3X	151.50	267.00	158.30	6.00	1-11261-393-0

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Engine Type	Exhaust quantity (c.c.)	Cyl No.	NPR Product Code	Bore/A	Type	Surface	Finish/Semi	Size (mm)					Reference
								Grade	B	C	D	E	
<b>6WG1TC</b>	15,681	6	L16552-FC	147.00	D05	F	F	1X	151.60	267.00	158.30	6.00	1-11261-333-2
			L16552-PC	147.00	D05	F	F	1X	151.60	267.00	158.30	6.00	1-11261-379-2
			L16552-GC	147.00	D05	F	F	3X	151.60	267.00	158.30	6.00	1-11261-334-2
			L16552-QC	147.00	D05	F	F	3X	151.60	267.00	158.30	6.00	1-11261-380-2
<b>V170</b>	15,513	8	L12694-PB	145.00	W09	NON	F		164.00	238.80	173.00	10.10	9-11261-274-0



Engine Type	Exhaust quantity (c.c.)	Cyl No.	NPR Product Code	Bore/A	Type	Surface	Finish/Semi	Size (mm)					Reference
								Grade	B	C	D	E	
<b>4D95</b>	3,260	4	L65901ABA	95.00	D04	NON	F	OD=A	98.00	180.00	104.00	4.00	6207-21-2111
			L65901BBA	95.00	D04	NON	F	OD=B	98.00	180.00	104.00	4.00	6207-21-2121
<b>S6D102</b>	5,900	6	L66904-AA	102.00	D01	NON	S		104.50	200.00	-	-	6736-21-2110
<b>S6D108</b>	7,150	6	L66903-CA	108.00	D05	F	F		111.50	219.50	120.00	5.10	6121-21-2210, 6121-21-2220, 6121-21-2230
<b>S6D105</b>	6,490	6	L56905-BA	105.00	W09	NON	F		118.70	223.00	127.00	10.10	6136-21-2210
			L56905-CA	105.00	W09	F	F		118.70	223.00	127.00	10.10	6137-23-2211
<b>S6D125</b>	11,040	6	L66902-CA	125.00	W09	F	F		141.50	256.30	153.00	10.20	6150-21-2221/2220

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Engine Type	Exhaust quantity (c.c.)	Cyl No.	NPR Product Code	Bore/A	Type	Surface	Finish/Semi	Size (mm)				Reference	
								Grade	B	C	D		E
<b>4DQ5</b>	2,084	4	L55111-AA	84.00	D01	NON	S		87.00	162.50	-	-	30607-50301
<b>4D56</b>	2,476	4	L55113-AA	91.10	D01	NON	S		94.10	167.00	-	-	MD168963
<b>4D55</b>	2,346	4	L65112-AA	91.10	D01	NON	S		94.10	164.50	-	-	MD050430
<b>4D56</b>	2,476	4	L65101-AA	91.10	D01	NON	S		94.20	167.00	-	-	MD103648
			L65101-BA	91.10	D01	NON	F		94.20	167.00	-	-	MD168963
<b>4DR51</b>	2,659	4	L55114-AA	92.00	D01	NON	S		95.00	176.00	-	-	ME001245
<b>S4S</b>	3,331	4	L65104-AA	94.00	D01	NON	S		98.00	185.50	-	-	32A07-00300
<b>4M40</b>	2,835	4	L65126-AA	95.00	D01	NON	S		99.00	190.00	-	-	
<b>S4E2</b>	2,609	4	L65115-AA	98.00	D01	NON	S		101.70	168.50	-	-	34407-05400
<b>4D31</b>	3,298	4	L66102-AA	100.00	D01	NON	S		104.00	191.50	-	-	ME011604
<b>S4K S6KT</b>	6,380	4, 6	L66103-AA	102.00	D01	NON	S		105.00	196.00	-	-	34307-00501
			L66116-AA	104.00	D01	NON	S		107.00	192.00	-	-	ME012900
<b>6DS1</b>	4,678	6	L12641-DD	95.00	W02	NON	F		108.00	191.20	115.00	10.00	ME020306
<b>4D34</b>	3,907	4	L66117-AA	104.00	D01	NON	S		108.00	197.50	-	-	ME013366
<b>6DS7</b>	5,430	6	L15203-AC OLD	98.00	W09	NON	F		110.00	201.20	117.00	10.00	ME021843
			L15203-BA NEW	98.00	W08	NON	F		110.00	206.20	117.00	10.00	ME029187
<b>4D33</b>	4,214	4	L66118-AA	108.00	D01	NON	S		112.00	198.00	-	-	ME013333
<b>6D15T</b>		6	L66113-CA	113.00	D03	F	F		117.00	206.00	125.00	8.00	ME071086
<b>6D15T2</b>	6,919	6	L66105ACA	113.00	D05	F	F	A	117.00	206.00	125.00	8.00	ME071090
			L66105BCA	113.00	D05	F	F	B	117.00	206.00	125.00	8.00	ME071091
			L66105CCA	113.00	D05	F	F	C	117.00	206.00	125.00	8.00	ME071092
			L66105-CA	113.00	D03	F	F		117.00	206.00	125.00	8.00	ME07089
<b>6D10</b>	5,974	6	L16128-AA	105.00	W04	NON	F		119.00	205.80	125.60	10.00	ME031502, ME031503, ME031504
<b>6D14</b>	6,557	6	L16131-AB	110.00	W13	NON	F		122.00	206.00	130.60	10.00	ME071178, ME071179, ME071180

Engine Type	Exhaust quantity (c.c.)	Cyl No.	NPR Product Code	Bore/A	Type	Surface	Finish/Semi	Size (mm)					Reference
								Grade	B	C	D	E	
<b>6M60</b>	7,545	6	L16641-AA (TCC-G-905)	118.00	D03	F	F	1A	122.00	210.50	128.00	8.00	ME071937
			L16641-BA (TCC-G-906)	118.00	D03	F	F	2A	122.00	210.50	128.00	8.00	ME071938
			L16641-CA (TCC-G-907)	118.00	D03	F	F	3A	122.00	210.50	128.00	8.00	ME071939
			L16641-DA (TCC-G-908)	118.00	D03	F	F	1B	122.00	210.50	128.00	8.00	ME071940
			L16641-EA (TCC-G-909)	118.00	D03	F	F	2B	122.00	210.50	128.00	8.00	ME071941
			L16641-FA (TCC-G-910)	118.00	D03	F	F	3B	122.00	210.50	128.00	8.00	ME071942
<b>6D16</b>	7,545	6	L16189AGA	118.00	D03	F	F	1A	122.00	206.00	128.00	8.00	ME041102
			L16189AKA	118.00	D03	F	F	1B	122.00	206.00	128.00	8.00	ME041105
			L16189AHA	118.00	D03	F	F	2A	122.00	206.00	128.00	8.00	ME041103
			L16189ALA	118.00	D03	F	F	2B	122.00	206.00	128.00	8.00	ME041106
			L16189AJA	118.00	D03	F	F	3A	122.00	206.00	128.00	8.00	ME041104
			L16189AMA	118.00	D03	F	F	3B	122.00	206.00	128.00	8.00	ME041107
<b>6D16R</b>	7,545	6	L16189-ZA	118.00	D02	F	F	1A	122.00	209.00	128.00	8.00	ME071225
			L16189ACA	118.00	D02	F	F	1B	122.00	209.00	128.00	8.00	ME071228
			L16189AAA	118.00	D02	F	F	2A	122.00	209.00	128.00	8.00	ME071226
			L16189ADA	118.00	D02	F	F	2B	122.00	209.00	128.00	8.00	ME071229
			L16189ABA	118.00	D02	F	F	3A	122.00	209.00	128.00	8.00	ME071227
			L16189AEA	118.00	D02	F	F	3B	122.00	209.00	128.00	8.00	ME071230
<b>6D17</b>	7,545	6	L16189AUA	118.00	D02	F	F	1A	122.00	209.00	128.00	8.00	ME071538
			L16189AXA	118.00	D02	F	F	1B	122.00	209.00	128.00	8.00	ME071541
			L16189AVA	118.00	D02	F	F	2A	122.00	209.00	128.00	8.00	ME071539
			L16189AYA	118.00	D02	F	F	2B	122.00	209.00	128.00	8.00	ME071542
			L16189AWA	118.00	D02	F	F	3A	122.00	209.00	128.00	8.00	ME071540
			L16189AZA	118.00	D02	F	F	3B	122.00	209.00	128.00	8.00	ME071543

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Engine Type	Exhaust quantity (c.c.)	Cyl No.	NPR Product Code	Bore/A	Type	Surface	Finish/Semi	Size (mm)					Reference
								Grade	B	C	D	E	
<b>6D14T</b>		6	L66111-BA	110.00	W11	NON	F		122.00	211.00	131.00	10.00	ME071175
<b>6DB</b>	8,553	6	L66130-BA (L22557-AF)	110.00	W01	NON	F		125.00	270.00	135.00	11.80	30007-62200, ME040040
<b>6D15T 6D15(OLD)</b>		6	L66110-BA	113.00	W02	NON	F		125.00	211.00	133.00	10.00	ME071062
			L66112-BA	113.00	W09	NON	F		125.00	206.00	133.00	10.00	ME031655/56/57
<b>6D15(NEW)</b>			L66120-BA	113.00	W09	NON	F		125.00	206.00	133.00	10.00	ME071041/42/43/44
<b>6D40</b>	13,023	6	L16517APA	135.00	D03	F	F	1A	140.00	259.30	149.00	9.00	ME120025
			L16517ASA	135.00	D03	F	F	1B	140.00	259.30	149.00	9.00	ME120028
			L16517AQA	135.00	D03	F	F	2A	140.00	259.30	149.00	9.00	ME120026
			L16517ATA	135.00	D03	F	F	2B	140.00	259.30	149.00	9.00	ME120029
			L16517ARA	135.00	D03	F	F	3A	140.00	259.30	149.00	9.00	ME120027
			L16517AUA	135.00	D03	F	F	3B	140.00	259.30	149.00	9.00	ME120030
<b>6D20</b>	10,308	6	L16158-LA	125.00	W15	NON	F	A	143.00	261.30	153.00	11.50	ME051554
			L16158-MA	125.00	W15	NON	F	B	143.00	261.30	153.00	11.50	ME051555
			L16158-NA	125.00	W15	NON	F	C	143.00	261.30	153.00	11.50	ME051556
<b>8DC2 6DC2</b>		6, 8	L16021-AH	130.00	W10	NON	F		147.00	229.00	157.00	11.80	31107-02203/ME061158
<b>6D22T</b>	11,149	6	L16165BMA	130.00	W15	NON	F	A	147.00	261.81	156.00	11.50	ME051632
			L16165BNA	130.00	W15	NON	F	B	147.00	261.81	156.00	11.50	ME051633
			L16165BPA	130.00	W15	NON	F	C	147.00	261.81	156.00	11.50	ME051634
<b>8DC81 82</b>	14,886	8	L56122-HA	135.00	W10	DC	F		154.00	229.70	163.00	11.80	ME062379/ME062597/98/99
<b>8DC90</b>	16,031	8	L56123-HA	135.00	W15	DC	F		154.00	259.70	163.00	11.80	ME091488/89
<b>8DC91</b>	16,031	8	L56124-HA	135.00	W10	DC	F		154.00	259.70	163.00	11.80	ME062602/603/604
<b>8DC81 82</b>	14,886	8	L66122-BA	135.00	W10	NON	F		154.00	229.70	163.00	11.80	ME062379/ME062597/98/99
<b>8DC91</b>	16,031	8	L66124-BA	135.00	W10	NON	F		154.00	259.70	163.00	11.80	(ME062602/603/604)

Engine Type	Exhaust quantity (c.c.)	Cyl No.	NPR Product Code	Bore/A	Type	Surface	Finish/Semi	Size (mm)					Reference
								Grade	B	C	D	E	
<b>8DC9</b>	16,031	8	L66106-HA	135.00	W10	DC	F		155.00	259.30	163.00	11.80	ME061782
<b>8DC91</b>	16,031	8	L66107-HA	135.00	W10	CF	F		155.00	259.70	163.00	11.80	ME062602
			L66107-FA	135.00	W10	DC	F		155.00	259.70	163.00	11.80	(ME062602)
<b>8DC10</b>	16,752	8	L66108-BA	138.00	W10	NON	F		155.00	259.70	163.00	13.40	ME062857
<b>8DC11</b>	17,737	8	L66109-HA	142.00	W11	DC	F		161.00	259.50	163.00	15.00	(ME060439)
			L66109-FA	142.00	W11	DC	F		161.00	259.50	163.00	15.00	ME060439
			L66109-BA	142.00	W11	NON	F		161.00	259.50	163.00	15.00	ME060439
<b>6M7</b>	13,023	6	L16517AVA	135.00	D03	F	F	1A	140.00	260.60	149.00	9.00	ME180960
			L16517AYA	135.00	D03	F	F	1B	140.00	260.60	149.00	9.00	ME180963
			L16517AWA	135.00	D03	F	F	2A	140.00	260.60	149.00	9.00	ME180961
			L16517AZA	135.00	D03	F	F	2B	140.00	260.60	149.00	9.00	ME180964
			L16517AXA	135.00	D03	F	F	3A	140.00	260.60	149.00	9.00	ME180962
			L16517BAA	135.00	D03	F	F	3B	140.00	260.60	149.00	9.00	ME180965

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Engine Type	Exhaust quantity (c.c.)	Cyl No.	NPR Product Code	Bore/A	Type	Sur-face	Finish/Semi	Size (mm)					Reference
								Grade	B	C	D	E	
<b>SD23/25</b>	2,289	4	L55213-AA	88.50	D04	NON	S		92.00	172.00	98.00	5.00	11012-L2002/04
			L55213-BA	89.00	D04	NON	F		92.00	172.00	98.00	5.00	11012-L2002/04
<b>TD23</b>	2,289	4	L65201-AA	88.50	D04	NON	S		92.00	160.00	98.00	5.00	11012-02N45
			L65201-BA	89.00	D04	NON	F		92.00	160.00	98.00	5.00	11012-02N10
<b>TD25</b>	2,494	4	L55214-AA	92.40	D04	NON	S		95.90	160.00	101.90	5.00	11012-44G40
			L55214-BA	92.90	D04	NON	F		95.90	160.00	101.90	5.00	11012-44G10
<b>TD25/ BD25</b>	2,289	4	L65202-AA	92.90	D04	NON	S		96.00	160.00	102.00	5.00	11012-44G10
<b>TD27</b>	2,664	4	L55215-AA	95.50	D04	NON	S		99.00	160.00	105.00	5.00	11012-43G45
<b>BD30</b>	2,953	4	L55226-BA	96.00	D02	NON	F		99.00	172.50	105.00	5.00	11012-54T00
<b>TD42</b>	4,169	6	L65228-BA	96.00	D02	NON	F		99.00	164.00	105.00	5.00	11012-06J00
<b>TD27</b>	2,664	4	L65203-AA	95.50	D04	NON	S		99.00	160.00	105.00	5.00	11012-43G10
<b>FE6</b>	6,925	6	L16618-DA	108.00	D03	F	F	0	111.00	217.00	116.00	8.00	11012-Z5604
			L16618-GA	108.00	D03	F	F	0	111.00	220.00	116.00	8.00	11012-Z5518
			L16618-EA	108.00	D03	F	F	1	111.00	217.00	116.00	8.00	11012-Z5604
			L16618-HA	108.00	D03	F	F	1	111.00	220.00	116.00	8.00	11012-Z5518
			L16618-FA	108.00	D05	NON	F		111.00	217.00	116.00	8.00	11012-Z5604
			L16618-JA	108.00	D05	NON	F		111.00	220.00	116.00	8.00	11012-Z5518
			L16618-AA	108.00	D03	F	F	0	111.00	212.00	116.00	8.00	11012-Z5616
			L16618-BA	108.00	D03	F	F	1	111.00	212.00	116.00	8.00	11012-Z5617
			L16618-KA	108.00	D03	F	F	2	111.00	212.00	116.00	8.00	
<b>FD42</b>	4,214	4	L66231-BA	108.00	D05	NON	F		111.00	191.00	116.00	8.00	11012-0T000 11012-0T001
<b>FD46</b>	4,617	4	L66232-BA	108.00	D05	NON	F		111.00	215.00	116.00	8.00	11012-0T300 11012-0T301
<b>GH5/ GH7</b>	4,675 7,013		TCC-G-911	110.00	D03	NON	F	0	113.00	225.00	119.00	6.00	52214-09575
			TCC-G-912	110.00	D03	NON	F	1	113.00	225.00	119.00	6.00	52214-09575

Engine Type	Exhaust quantity (c.c.)	Cyl No.	NPR Product Code	Bore/A	Type	Surface	Finish/Semi	Size (mm)					Reference
								Grade	B	C	D	E	
<b>ED33</b>	3,298	4	L56216-BA	100.00	W08	NON	F		112.00	191.00	118.00	8.00	11012-T9002
<b>FD6</b>	5,654	6	L66217-BA	100.00	W02	NON	F		112.00	212.00	118.00	8.00	11012-Z5001 11012-Z5002
<b>FD35</b>	3,465	4	L56226-BA	102.50	W02	NON	F		113.20	191.00	119.20	8.00	11012-01T13
<b>ND(OLD)</b>	6,842	6	L12656AJA	110.00	D05	NON	F		115.00	229.00	119.00	3.00	11012-95001 11012-95002
<b>ND6</b>	6,842	6	L12656AKA	110.00	D05	NON	F	0	115.00	229.00	121.00	3.00	11012-95065
			L12656ALA	110.00	D05	NON	F	1	115.00	229.00	121.00	3.00	11012-95066
<b>NE/ NE6(H)</b>	6,842	6	L12656-WC	110.00	D05	F	F	0	115.00	229.00	119.00	3.00	11012-95005
			L12656-XC	110.00	D05	F	F	1	115.00	229.00	119.00	3.00	11012-95006
<b>NE6TA</b>	7,000	6	L16534-SB	110.00	D03	F	F	0	115.00	229.00	121.00	3.00	11012-95063
			L16534-TB	110.00	D03	F	F	1	115.00	229.00	121.00	3.00	11012-95064
<b>NF6</b>	9,160	6	L66204-CA	120.00	D05	F	F		123.00	226.00	129.00	8.00	11012-95516
<b>MD92</b>	9,203	6	L66230-BA	125.00	D05	NON	F		129.00	200.00	135.00	8.00	11012-Z6008
<b>PD6</b>	10,308	6	L12568-MB	125.00	D05	NON	F	0	130.00	259.00	134.00	3.00	11012-96009
			L12568-MB	125.00	D05	NON	F	1	130.00	259.00	134.00	3.00	11012-96010
			L12568-MB	125.00	D05	NON	F	2	130.00	259.00	134.00	3.00	11012-96011
<b>PE6 PE6T PF6</b>	11,670 12,503	6	L16701-AB	133.00	D05	NON	F		138.00	259.00	144.00	3.00	11012-96565 11012-96575 11012-96576
			L16701-BB	133.00	D05	F	F		138.00	259.00	144.00	3.00	(11012-96565) (11012-96575) (11012-96576)
<b>PE6</b>	11,670	6	L66205-BA	133.00	D05	NON	F		138.00	259.00	142.00	3.00	11012-96500
<b>PE6 PE6T</b>	11,670	6	L66206-BA	133.00	D05	NON	F		138.00	259.00	142.00	3.00	11012-96561 11012-96562
<b>PE6TA</b>	11,670	6	L66223-BA	133.00	D05	NON	F		138.00	259.00	144.00	3.00	11012-96607
<b>RE8</b>	15,115	8	L56224-BA	135.00	W09	NON	F		153.00	236.00	161.00	11.20	11012-97202

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Engine Type	Exhaust quantity (c.c.)	Cyl No.	NPR Product Code	Bore/A	Type	Surface	Finish/Semi	Size (mm)					Reference
								Grade	B	C	D	E	
<b>RD8</b>	14,313	8	L56225-GZ	135.00	W09	CF	F		153.00	243.00	161.00	8.20	11012-97063
			L56225-HA	135.00	W09	DC	F		153.00	243.00	161.00	8.20	11012-97062
			L66214-BZ (L56225-BA)	135.00	W09	NON	F		153.00	243.00	161.00	8.20	11012-97025
<b>RE8</b>	15,115	8	L66208-BA	135.00	W09	NON	F		154.00	238.00	161.00	11.10	11012-97161
			L66208-GA	135.00	W09	DC	F		154.00	238.00	161.00	11.10	11012-97161
<b>GE13</b>	13,074	6	L66229-BA	136.00	W10	NON	F		157.50	243.60	166.50	9.65	(11012-00Z11) (11012-00Z13)
			L66229-FA	136.00	W10	DC	F		157.50	243.60	166.50	9.65	11012-00Z11 11012-00Z13
<b>RF8</b>	16,991	8	L66210-GA	138.00	W09	DC	F		160.00	235.80	168.50	12.30	11012-97164
			L66210-BA	138.00	W09	NON	F		160.00	235.80	168.50	12.30	(11012-97164)
			L66211-GA	138.00	W09	DC	F		160.00	235.80	167.00	12.30	11012-97178
			L66211-BA	138.00	W09	NON	F		160.00	235.80	167.00	12.30	(11012-97178)
<b>RG8</b>	17,991	8	L66212-GA	142.00	W10	DC	F		160.00	236.00	167.00	12.30	11012-97219
			L66212-BA	142.00	W10	NON	F		160.00	236.00	167.00	12.30	(11012-97219)
<b>RH8 RH10</b>	21,205	8,	L16638-AA L16638-BA	150.00	D03	NON	F	0	153.00	246.20	161.00	8.00	11012-97261
	26,507	10											

Engine Type	Exhaust quantity (c.c.)	Cyl No.	NPR Product Code	Bore/A	Type	Surface	Finish/Semi	Size (mm)				Reference	
								Grade	B	C	D		E
<b>2C</b>	1,974	4	L55307-AA	86.00	D01	NON	S		90.00	158.00	-	-	11461-64060
<b>2J(OLD)</b>	2,481	4	L65301-AA	88.00	D01	NON	S		92.00	183.00	-	-	11461-48010
<b>2J(NEW)</b>	2,481	4	L65302-AA	88.00	D01	NON	S		92.00	184.00	-	-	11461-48011
<b>L</b>	2,188	4	L15287-FA	89.60	D03	NON	S		94.00	160.50	101.00	3.50	11461-54010
			L15455-AA	90.00	D03	NON	F		94.00	160.50	101.00	3.50	11461-54010
<b>2H</b>	3,980	6	L55308-AA	91.00	D03	NON	S		95.00	184.00	100.80	2.55	11461-68010
<b>2L</b>	2,446	4	L55309-AA	92.00	D01	NON	S		96.00	176.00	-	-	11461-54060
<b>1HZ</b>	4,163	6	L65303-AA	94.00	D01	NON	S		98.00	190.20	-	-	11461-17010
<b>11B</b>	2,977	4	L55310-BA	94.50	D03	NON	S		99.00	191.20	105.00	2.50	11461-56030
			L55310-AA	95.00	D03	NON	F		99.00	191.20	105.00	2.50	11461-56030
<b>3L</b>	2,779	4	L55312-AA	96.00	D02	NON	S		100.00	180.00	105.00	3.50	11461-54100
			L55313-AA	96.00	D02	NON	S		100.00	180.00	105.00	3.50	11461-54120
<b>B</b>	2,977	4	L65311-AA	95.00	D03	NON	F		100.00	190.20	108.00	2.50	11461-56010
			L15456-AB	94.60	D03	NON	S		102.00	190.20	108.00	2.50	11461-56020
<b>2B</b>	3,168	4	L55314-AA	98.00	D03	NON	S		102.00	190.20	108.00	2.50	11461-57010
<b>13B</b>	3,431	4	L66304-AA	101.60	D03	NON	S		106.00	190.20	111.70	2.50	11461-58020
<b>3B</b>	3,431	4	L66315-AA	101.60	D03	NON	S		106.00	187.70	111.70	2.50	11461-58010
<b>14B</b>	3,660	4	L66316-AA	101.60	D01	NON	S		106.00	200.00	-	-	11461-58040
<b>2D</b>	6,494	6	L12248-KA	105.00	W11	NON	F		115.50	233.30	121.00	10.00	11461-77021, 11461-77041
			L12248-AB	105.00	W11	NON	F		115.50	242.00	120.00	10.00	SL2248E

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Engine Type	Exhaust quantity (c.c.)	Cyl No.	NPR Product Code	Bore/A	Type	Surface	Finish/Semi	Size (mm)					Reference
								Grade	B	C	D	E	
<b>PB</b>	987	4	L15289-AA	68.00	W19	NON	F		77.00	125.00	87.95	8.50	0249-10-311
<b>R2B6</b>	2,148	4	L15577-RC	86.00	D02	F	F	WHITE	89.00	163.35	94.00	2.85	R2B6-10-311B R2B6-10-312B R2B6-10-313B
			L15577-SC	86.00	D02	F	F	YELLOW	89.00	163.35	94.00	2.85	R2B6-10-3B7B
<b>RFT</b>	2,000	4	L15614-SA	86.00	D02	F	F	WHITE	89.00	155.35	94.00	2.85	RFJ5-10-313B
			L15614-TA	86.00	D02	F	F	YELLOW	89.00	155.35	94.00	2.85	RFJ5-10-3B7B
<b>XA</b>	2,552	4	L55908-BA	88.90	D03	NON	F		96.90	189.00	101.00	3.80	S501-23-051
<b>HA</b>	2,977	4	L55909-BA	95.00	D03	NON	F		98.50	191.00	103.50	3.80	SE01-23-051
<b>SLA1</b>	3,500	4	L16191BUB	100.00	D03	F	F	RED	103.00	193.70	108.00	2.50	SLY0-10-313
			L16191BVB	100.00	D03	F	F		103.00	193.70	108.00	2.50	SLY0-10-311
<b>SL</b>	3,500	4	L16191AKB	100.01	D03	F	F	GREEN	103.50	193.70	108.00	2.50	SL01-23-312
			L16191AJB	100.01	D03	F	F	RED	103.50	193.70	108.00	2.50	SL01-23-311
<b>TF01</b>	4,021	4	L16238ACC	105.50	D03	F	F	GREEN	109.00	200.00	114.50	6.00	TFY0-10-311
			L16238ABC	105.50	D03	F	F	RED	109.00	200.00	114.50	6.00	TFY0-10-313
<b>TM</b>	4,553	4	L56910ACA	109.00	D03	F	F	A	112.50	202.50	118.00	6.00	TMY0-10-311
			L56910BCA	109.00	D03	F	F	B	112.50	202.50	118.00	6.00	TMY0-10-313

Engine Type	Exhaust quantity (c.c.)	Cyl No.	NPR Product Code	Bore/A	Type	Surface	Finish/Semi	Size (mm)				Reference	
								Grade	B	C	D		E
<b>JS</b>	2,665	4	L65905-CA	94.50	D05	F	F		97.50	166.40	104.00	3.90	OK65A-10311
<b>JT</b>	2,954	4	L65906-CA	98.00	D05	F	F		101.50	165.50	107.00	2.50	OK75A-10311B

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