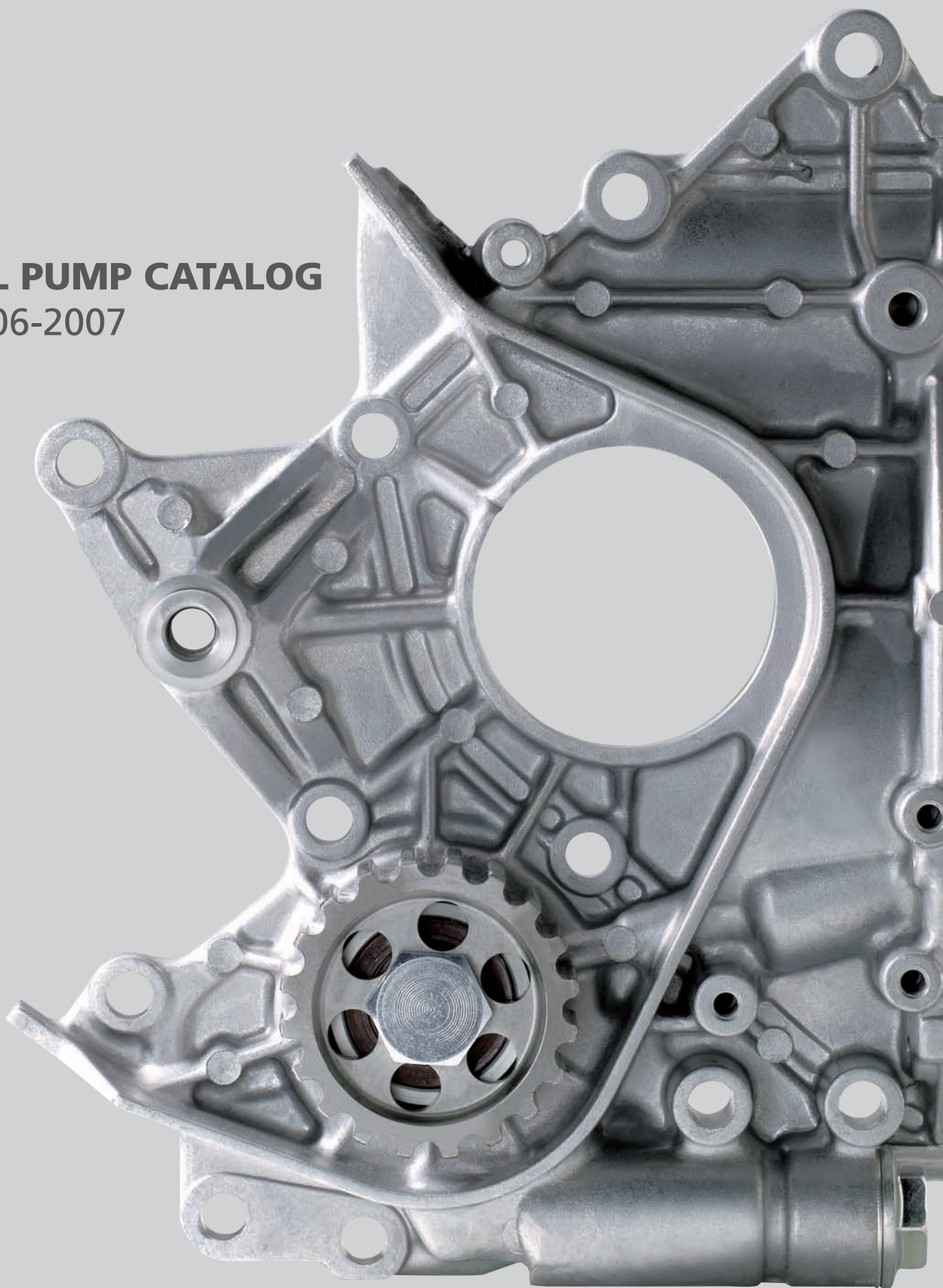


OIL PUMP CATALOG
2006-2007



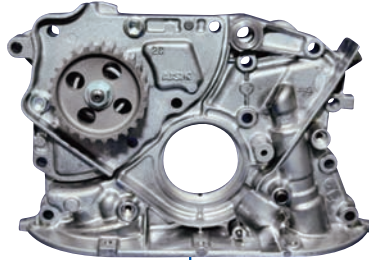


40 years as ASCO, future as AISIN



AISIN

OIL PUMP CATALOG



Introduction

2

2

Operation Diagram

2

Drive System

3

Structure and Components

4

Installation Procedure

6

AISIN Aftermarket Website Renewal

7

"AISIN Aftermarket Website" Registration

8

IMPORTANT NOTICE

Oil Pump Catalog

9

10

TOYOTA

Cross Reference List

17

18

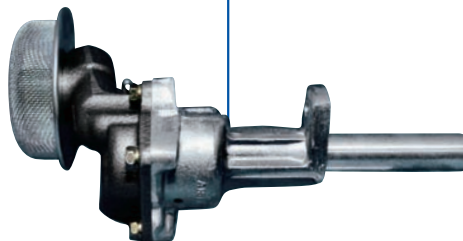
Genuine No. -> AISIN No. (Table-1)

21

AISIN No. -> Genuine No. (Table-2)

Illustrations

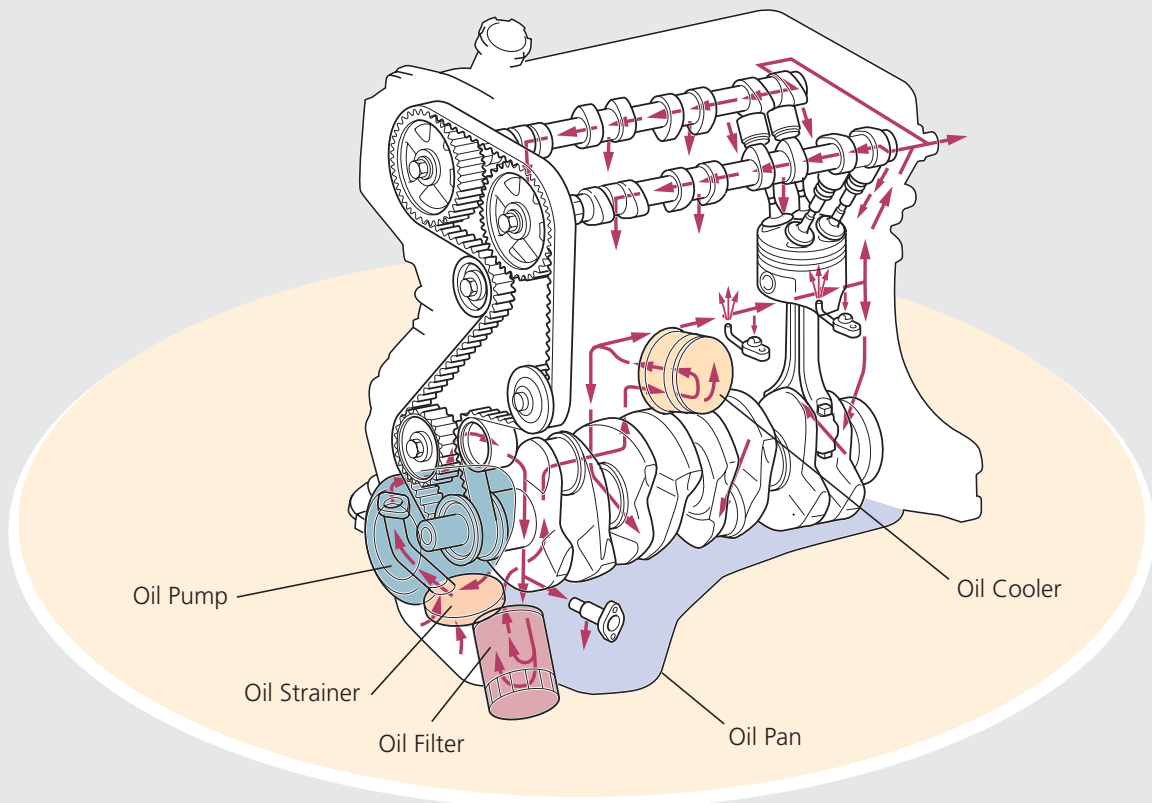
25



Oil Pump System

Operation Diagram

The oil pump is the vital component that provides the circulation of oil which cools, cleans and lubricates internal engine components. In some engines, the oil pump also provides hydraulic power to valve lifters and valve timing components. Driven by crankshaft power, the pump creates suction to draw oil from the oil pan through the strainer. The suction by the pump creates the pressure where oil is driven through the oil filter, oil cooler, internal moving parts, provide hydraulic power, then collected back into the oil pan.



Drive Systems

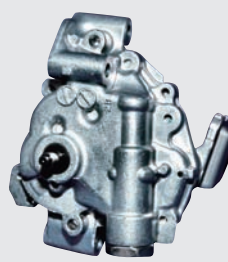
Various systems are utilized to transfer power from the crankshaft to the oil pump. The type of drive system influences the configuration and location of the oil pump.



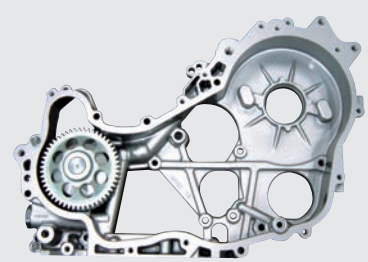
Direct Crankshaft Drive



Integral Unit with W/P
(Front Module)



Chain Drive



Gear Drive
(Integral Unit with Gear Case)

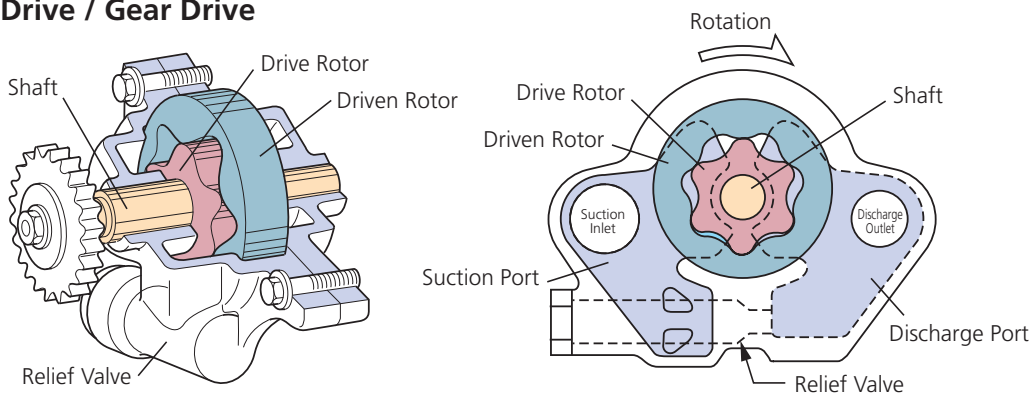


Structure and Components

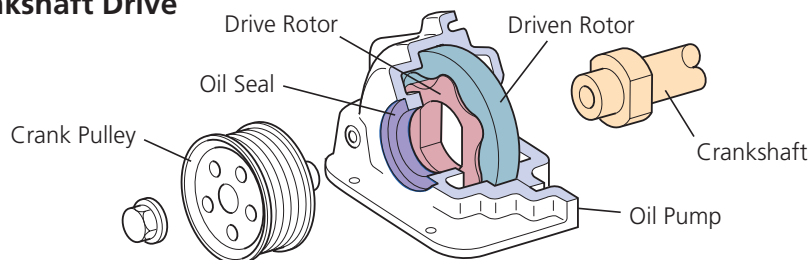
The basic structure of the oil pump consists of a sprocket (drive rotor) which revolves within a housing (driven rotor). The complex geometry of the rotor and the housing creates suction. Depending on the type of oil pump drive system, the rotor can receive power through a shaft that is connected to a pulley, a gear, a sprocket or directly into the crankshaft. When the rotor is revolved, oil is drawn in from the suction port and expelled into the discharge port. This process creates oil pressure to supply oil to the moving components of the engine. A relief valve is strategically configured in between the ports to prevent excessive pressure build-up and maintain optimal operating oil pressure.

Oil Pump Configuration

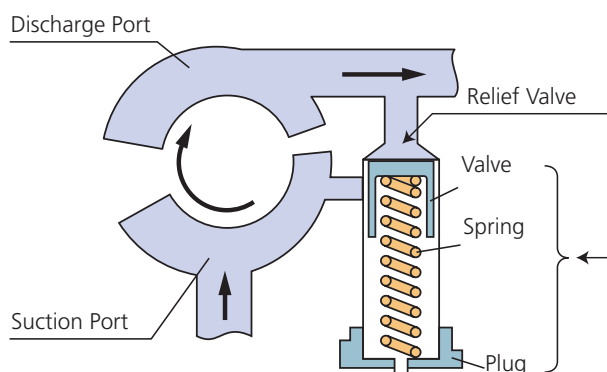
Chain Drive / Gear Drive



Direct Crankshaft Drive



Relief Valve Configuration



The relief valve is configured to prevent excessive oil pressure. The excess pressure along the discharge port compresses the relief valve spring to open the valve, relieving pressure by re-circulating the oil back into the suction port.

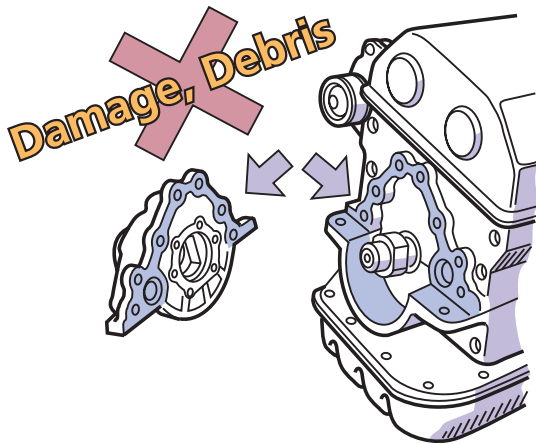
Installation Procedure

CAUTION!

Failure to follow recommended procedures may cause engine failure and injury. Always consult the manufacturer's vehicle specific service manual for reference.

1

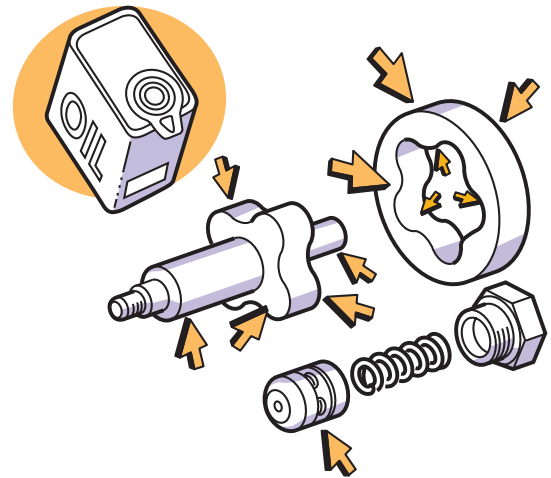
Remove old pump, gaskets and foreign materials left on the mounting surface. Thoroughly clean with non-abrasive solvent. Confirm that the mounting surfaces are free of damage, deformation, and debris.



Damage, deformation, and debris on mounting surfaces may cause seal malfunction which will create oil leakage and lower oil pressure.

2

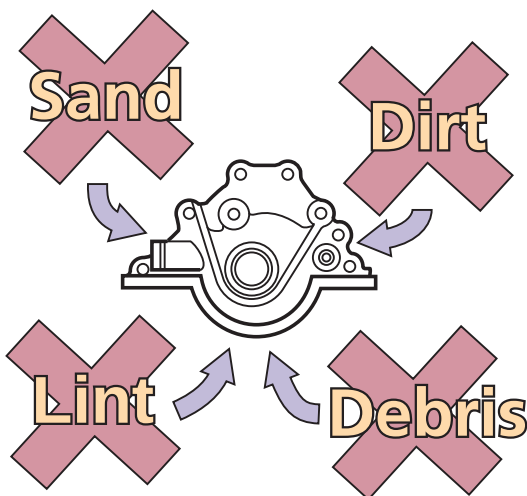
Always use engine oil to lubricate the sliding and rotating components of the oil pump when installing, disassembling, or cleaning.



Lubricating surfaces will prevent pump seizure and suction failure.

3

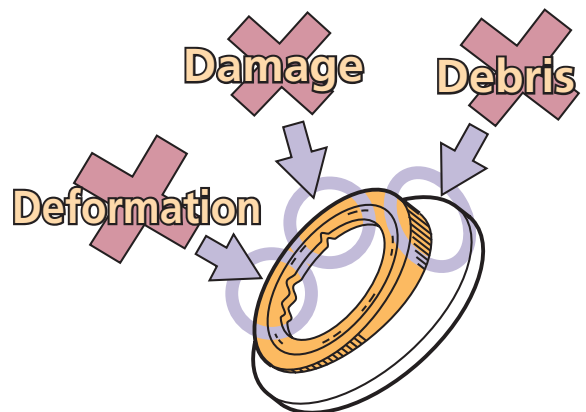
Ensure that there are no contaminants or debris in the pump before installation.



Contaminants and debris will cause damage to rotors. Consequently, improper valve operations and abnormal pressure may occur.

4

Check for damage, deformation, and debris along the oil seal mounting areas. Install oil seal and confirm proper seating.



Improper seating will cause oil leakage and loss of oil pressure.

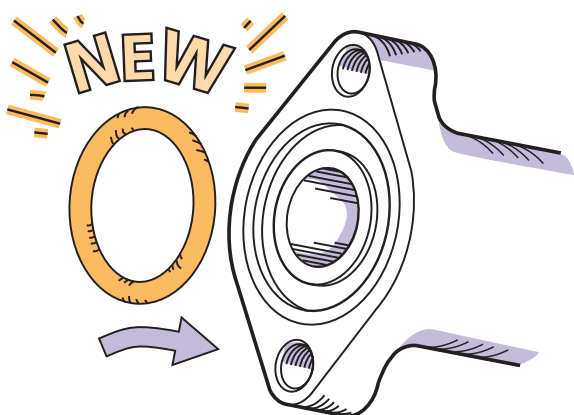


CAUTION!

Failure to follow recommended procedures may cause engine failure and injury. Always consult the manufacturer's vehicle specific service manual for reference.

5

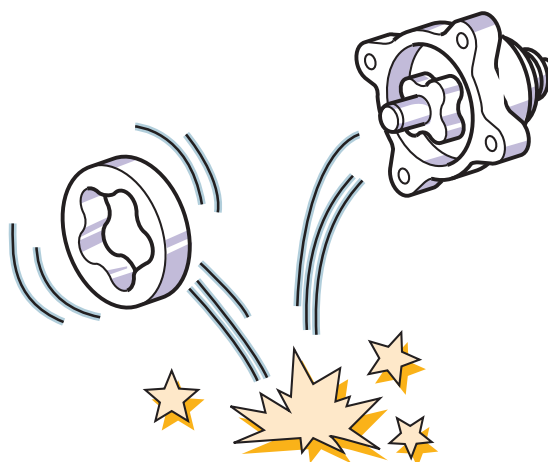
Always use new O-rings and gaskets when installing an oil pump. Ensure the O-ring does not pinch between mounting surfaces during installation.



Pinched oil rings will cause oil leaks and lower oil pressure.

6

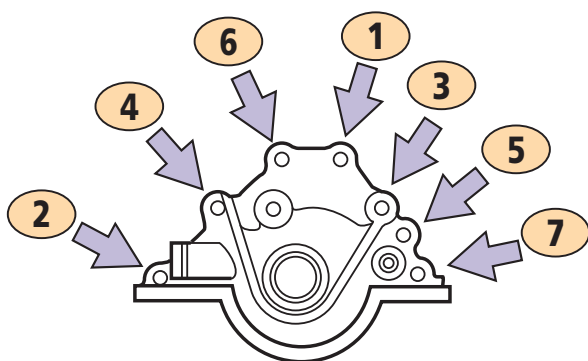
Oil pump rotors are precision components that require care in handling. Take extreme caution when inspecting and installing.



Damaged rotors will cause improper rotation and incorrect oil pressure.

7

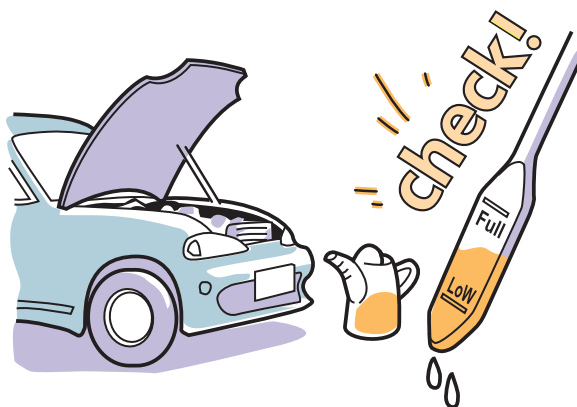
Install the oil pump in a diagonal (star) pattern. Always follow the manufacturer's vehicle specific recommended torque tools, procedures, and specifications.



Following correct procedures prevents leakage from the mounting surface, oil pump body, and body fractures caused by over-torque.

8

After the installation of the oil pump, start and idle the engine until operating temperature has been reached. Stop the engine and check the oil level. Add oil to proper level.



Circulating the oil after replacing the pump bleeds trapped air within the engine. Adding oil to the proper level prevents engine damage and ensures optimal performance.

AISIN Aftermarket Website Renewal!

www.aisinaftermarket.jp

5 New Features

- 1 Quick Search Part Number Interchange
- 2 New Parts Updates
- 3 Tool Library for Sales Promotion
- 4 New Topics
- 5 Product Details



1 Quick Search

**Shorten application
look up time!**

Look up Genuine No. to AISIN No. directly and shorten product inquiry time by accessing our online part number interchange.

2 New Parts Updates

**Up to date information
for new product releases!**

Information center for new products and application changes. Stay informed with the latest data updated directly from AISIN.

3 Tool Library

**Direct access to sales
promotion tools!**

Catalogs, bulletins, diagnostic manuals, and other helpful marketing items that may help in promoting AISIN products.

4 New Topics

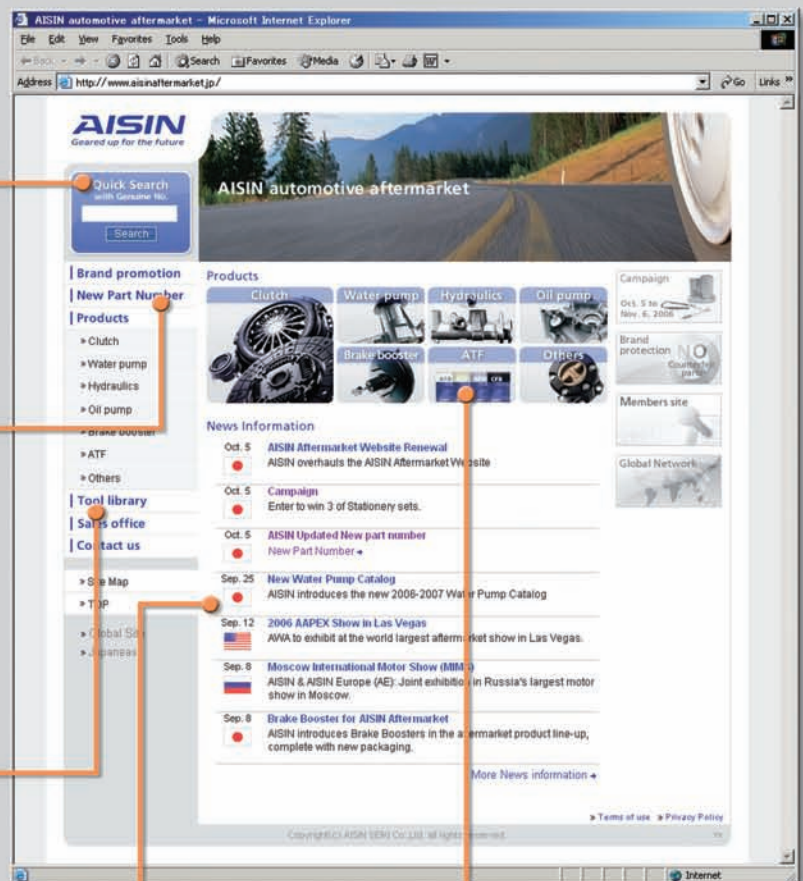
News from around the world!

Keep up to date with developments from AISIN affiliates across the globe. The ideal place for international information exchange for the ever expanding global market.

5 Product Detail

**Expanded AISIN Aftermarket
Product Line-Up!**

AISIN, known world-wide as a leader in clutch technology, has other OE Matched quality parts available. Check out our other product lines for your aftermarket needs.



"AISIN Aftermarket Website" Registration

The latest information regarding our aftermarket products will be accessible on the
 "AISIN Aftermarket Website"

◆ Website Contents

	Subject	Outline
Clutch	Clutch Search Function	Access the latest clutch applications.
	Diagnostic Manual	View the manual for installation and troubleshooting tips.
	Installation Movie	View a sample installation video of a clutch.
Other	Company Related News	AISIN press releases and other related topics.

◆ Registration

Please print this page, fill out the form and fax to :

Attention : AISIN Aftermarket Department

FAX #: +81 - 566 - 24 - 8996

We will provide a user ID and a temporary password to the e-mail address you have applied with after
 receiving your information by fax.

◆ Before Website Access

Please go to URL <http://www2.aisin.co.jp/msp/carparts>

Read and confirm the terms and conditions as described in the "Member Registration" section.

◆ IMPORTANT!

The website will not be accessible unless you are a registered user.

Only dealers and importers directly connected to AISIN will be able to register onto the website.

The website is not open to the public.

◆ Registration Form

Company

Company Address :

Users		Title	e-mail	Tel #	Subscribe to Additional Announcements ?
First name	Last name				
					Yes / No
					Yes / No
					Yes / No
					Yes / No
					Yes / No

CATALOG 2006/ 2007

IMPORTANT NOTICE

The purpose of this catalog is to furnish our customers with as complete a listing of their Oil pump parts requirements as possible.

All listings, applications or interchanges contained in this catalog are based on the latest information available at the time of printing. Every effort has been made to ensure that the information contained in this catalog is correct, but we do not assume any responsibility for errors which may occur.

All references to manufactures names or part numbers are only used as a guide when ordering Oil pump parts.

Oil Pump Catalog

TOYOTA

★ : To Be Determined

Model	Year	Engine Type	Body Type	Reference	AISIN No.	Genuine No.	
PUBLICA	1200	72.02~74.04	2K,3K#	KP3#		OPT-040	15100-22011
STARLET	1300	84.11~86.04	2ELU,2ELJ,2EELU	EP7#		OPT-002	15100-10020
		86.01~86.04	2ETELU	EP71		OPT-003	15100-11020
	1500	98.11~99.07	1N	NP90		OPT-013	15100-55011
TERCEL/ CORSA	1500	98.11~99.07	1NT	NL50	TURBO	OPT-013	15100-55011
COROLLA II	1500	98.11~99.07	1NT	NL50	TURBO	OPT-013	15100-55011
VITZ	1000	01.12~02.12	1SZFE	SCP10	U		15100-23020
		01.12~05.01	1SZFE	SCP10	(4FC,5F),(B,F)		15100-23020
		02.12~05.01	1SZFE	SCP10	4HC		15100-23020
		99.01~	1SZFE	SCP10			15100-23020
	1300	05.01~	2NZFE	NCP95		OPT-038	15100-21030
		06.05~	2SZFE	SCP90			15100-23040
	1500	05.01~	1NZFE	NCP91			15100-21060
PLATZ/ECHO	1000	99.08~	1SZFE	SCP11			15100-23020
BELTA	1300	05.11~	2NZFE	NCP96		OPT-038	15100-21030
		06.05~	2SZFE	SCP92			15100-23040
RACTIS	1300	06.05~	2SZFE	SCP100			15100-23040
	1500	05.09~	1NZFE	NCP105			15100-21040
		05.09~	1NZFE	NCP100		★OPT-108	15100-21060
xb/ bB	1500	06.01~	3SZVE	GNC21			15100-B1010
CAMI	1300	00.08~	K3VT	J102			15100-97402
IST	1300	02.04~	2NZFE	NCP60	F	OPT-038	15100-21030
		05.05~	2NZFE	NCP60	AEROF	OPT-038	15100-21030
	1500	02.04~	1NZFE	NCP61,65	F,S	★OPT-108	15100-21040
		05.05~	1NZFE	NCP61,65	AEROF,AEROS	★OPT-108	15100-21040
SIENTA	1500	03.09~	1NZFE	NCP85		★OPT-108	15100-21040
		03.09~	1NZFE	NCP81			15100-21060
PORTE	1300	04.07~	2NZFE	NNP10		OPT-038	15100-21030
	1500	04.07~	1NZFE	NNP11,15		★OPT-108	15100-21040
COROLLA	1300	91.09~94.01	2E	EE106		OPT-005	15100-11050
		00.08~	2NZFE	NZE120		OPT-038	15100-21030
		00.08~	2ZZGE	ZZE123			15100-88600
	1500	91.09~94.01	3E	EE107,108		OPT-004	15100-11021
		00.08~04.04	1NZFE	NZE121	4FC	★OPT-108	15100-21040
		04.04~	1NZFE	NZE121	4FC		15100-21060
		00.08~	1NZFE	NZE124		★OPT-108	15100-21040
	1600	79.03~83.08	2TGEU,12TJ,13TU	TE7#		OPT-046	15100-25020
		87.05~92.05	4AF,4AFE,5A#	AE91,95		★OPT-097	15100-15050
		91.06~95.05	4AGE	AE101		OPT-036	15100-19036
	1800	00.08~02.06	1ZZFE	ZZE122,124		OPT-044	15100-22040
		02.06~	1ZZFE	ZZE122,124		OPT-044	15100-22041
2200	00.08~04.04	3CE	CE121		OPT-025	15100-64042	
COROLLA FIELDER	1300	00.08~	2NZFE	NZE120		OPT-038	15100-21030
		00.08~	2ZZGE	ZZE123			15100-88600
	1500	00.08~04.04	1NZFE	NZE121	4FC	★OPT-108	15100-21040
		04.04~	1NZFE	NZE121	4FC		15100-21060
		00.08~	1NZFE	NZE124	5F	★OPT-108	15100-21040
	1800	00.08~02.06	1ZZFE	ZZE122,124		OPT-044	15100-22040
	02.06~	1ZZFE	ZZE122,124		OPT-044	15100-22041	

TOYOTA

★ : To Be Determined

Model	Year	Engine Type	Body Type	Reference	AISIN No.	Genuine No.
	2200	00.08~04.04	3CE	CE121		OPT-025 15100-64042
SPRINTER	1300	91.09~94.01	2E	EE106		OPT-005 15100-11050
	1500	91.09~94.01	3E	EE107,108		OPT-004 15100-11021
	1600	79.03~83.04	2TGEU,13TU	TE7#		OPT-046 15100-25020
		87.05~90.08	4AF,4AFE,5A#	AE91,95	DX,LX,MX,SE	★OPT-097 15100-15050
		90.08~91.06	4AFE,5AFE,5AFHE	AE91,95		★OPT-097 15100-15050
		91.06~95.05	4AGE	AE101		OPT-036 15100-19036
COROLLA LEVIN	1500	87.05~91.06	5A#	AE91		★OPT-097 15100-15050
SPRINTER TRUENO	1500	87.05~91.06	5A#	AE91		★OPT-097 15100-15050
LEVIN/TORENO/MRN/CRE	1600	91.06~95.05	4AG#	AE101		OPT-036 15100-19036
COROLLA RUNX	1500	01.01~04.04	1NZFE	NZE121		★OPT-108 15100-21040
		04.04~	1NZFE	NZE121		15100-21060
		01.01~	1NZFE	NZE124		★OPT-108 15100-21040
	1800	01.01~	2ZZGE	ZZE123		15100-88600
		02.09~	1ZZFE	ZZE122,124		OPT-044 15100-22041
COROLLA ALEX	1500	01.01~04.04	1NZFE	NZE121		★OPT-108 15100-21040
		04.04~	1NZFE	NZE121		15100-21060
		01.01~	1NZFE	NZE124		★OPT-108 15100-21040
	1800	01.01~	2ZZGE	ZZE123		15100-88600
		02.09~	1ZZFE	ZZE122,124		OPT-044 15100-22041
COROLLA SPACIO	1500	01.05~	1NZFE	NZE121		★OPT-108 15100-21040
	1800	01.05~02.06	1ZZFE	ZZE12#		OPT-044 15100-22040
		02.06~	1ZZFE	ZZE12#		OPT-044 15100-22041
SPRINTER CARIB	1600	90.09~94.08	4AFHE	AE95		★OPT-097 15100-15050
		95.08~02.07	4AFE	AE111,114		OPT-032 15100-15060
		96.05~02.07	4AGE	AE111		★OPT-101 15100-19045
	1800	95.08~99.10	7AFE	AE115		OPT-034 15100-16040
		99.10~02.07	7AFE	AE115		15100-16090
PROBOX/SUCCEED	1300	02.06~	2NZFE	NCP50		OPT-038 15100-21030
	1400	02.06~	1NDTV	NLP51		★OPT-102 15100-33020
	1500	02.06~	1NZ#	NCP51,52,55,58,59		★OPT-108 15100-21040
PRIUS	1500	97.12~00.05	1NZFXE	NHW10	HIBRID	15100-21021
		03.08~	1NZFXE	NHW20	HIBRID	OPT-039 15100-21050
CARINA	1600	88.05~92.11	4AFE,4AFHE	AT17#	FF	★OPT-097 15100-15050
CORONA	1500	85.11~87.12	3AU	AT140		OPT-031 15100-15020
	1600	82.01~83.10	3TEU,12TJ	TT14#		OPT-047 15100-26020
		87.12~92.02	4AFE,5A#	AT17#		★OPT-097 15100-15050
		96.01~01.12	4AFE	AT210		OPT-033 15100-15080
	1800	82.01~87.12	1SU	ST140		OPT-023 15100-63010
PREMIO/ALLION	1500	01.12~	1NZFE	NZT240		★OPT-108 15100-21040
	1800	01.12~02.06	1ZZFE	ZZT24#		OPT-044 15100-22040
		02.06~	1ZZFE	ZZT24#		OPT-044 15100-22041
	2000	01.12~04.12	1AZFSE	AZT240		OPT-048 15100-28030
		04.12~	1AZFSE	AZT240		15100-28040
CALDINA	1500	92.11~94.07	5EFE	ET196		OPT-007 15100-11070
		94.07~97.08	5EFE	ET196		OPT-008 15100-11071
		97.08~02.06	5EFE	ET196		OPT-010 15100-11110
	1800	96.01~97.08	7AFE	AT191		OPT-035 15100-16070
		97.08~02.09	7AFE	AT211		OPT-035 15100-16070

TOYOTA

TOYOTA

★ : To Be Determined

Model	Year	Engine Type	Body Type	Reference	AISIN No.	Genuine No.
	2000	02.09～	1ZZFE	ZZT241		15100-22041
		95.08～96.01	3SFE,4SFE	ST19#		15100-74060
		96.01～02.06	3SFE	ST19#		15100-74050
		97.08～02.09	3SFE	ST21#		15100-74050
		02.09～	3SGTE	ST246	TURBO	15100-88561
		02.09～05.01	1AZFSE	AZT24#		15100-28030
		05.01～	1AZFSE	AZT24#		15100-28040
MR2	2000	89.12～93.11	3SGE	SW20		15100-88360
		89.12～91.05	3SGTE	SW20	TURBO	15100-88381
		91.05～93.11	3SGTE	SW20	TURBO	15100-88382
WISH	1800	03.01～	1ZZFE	ZNE1#		15100-22041
	2000	03.04～	1AZFSE	ANE1#		15100-28040
CAMRY/VISTA	2000	88.08～90.07	1VZFE	VZV20		15100-62020
	2500	90.07～94.06	1VZFE,4VZFE	VZV3#		15100-62020
CAMRY	2400	06.01～	2AZFE	ACV4#		★OPT-096 15100-28020
VISTA/VISTA ARDEO	2000	98.06～	3SFE	SV55		15100-74050
		98.06～01.08	3SFSE	SV50		15100-74070
CRESSIDA/MARK II	1800	80.09～82.08	13T#	TX6#		15100-25020
	2000	80.09～82.08	MU	MX60X		15100-41030
		81.10～84.07	MTEU	MX61X	TURBO	15100-43010
		82.08～84.07	MU,MPU	MX60X		15100-43030
		88.10～97.04	1GFE	GX70	VAN,WG	15100-70030
		96.09～98.08	1GFE	GX100		15100-70030
	2500	90.08～91.08	1JZGE	JZX81		15100-46020
		97.04～01.12	2MZFE	MCV21,25	WAGON	15100-20030
	2800	80.09～82.08	5MEU	MX63X		15100-41030
	3000	89.08～93.02	7MGE	MX83		15100-42060
		97.04～99.08	1MZFE	MCV20	WG	15100-20020
MARK II/MARK II BLIT	2000	00.10～	1GFE	GX11#	IR	★OPT-106 15100-70050
		00.10～04.11	1GFE	GX11#	GD	★OPT-106 15100-70050
		02.10～04.11	1GFE	GX110	GDS	★OPT-106 15100-70050
	2500	01.04～	1JZFSE	JZX110	IRS	15100-46111
		01.04～04.11	1JZFSE	JZX110	SED	15100-46111
		00.10～	1JZGE	JZX115	IRS	15100-46100
		00.10～04.11	1JZGE	JZX115	GDG	15100-46100
CHASER	1800	80.09～82.08	13TU	TX60D		15100-25020
	2000	81.10～84.07	MTEU	MX61D		15100-43010
		96.09～98.08	1GFE	GX100		15100-70030
	3000	89.08～92.10	7MGE	MX83		15100-42060
CRESTA	1800	80.03～82.08	13TU	TX50Y		15100-25020
	2000	81.10～84.07	MTEU	MX51Y,61Y	TURBO	15100-43010
		96.09～98.08	1GFE	GX100		15100-70030
	3000	89.08～92.10	7MGE	MX83		15100-42060
VEROSSA	2000	01.06～04.02	1GFE	GX11#		★OPT-106 15100-70050
	2500	01.06～04.04	1JZFSE	JZX110	TURBO	15100-46111
CAMRY GRACIA	2500	96.12～01.09	2MZFE	MCV2#		15100-20030
SCEPTER	3000	92.07～96.07	3VZFE	VCV15	WG,CP	15100-62030
		92.11～96.08	3VZFE	VCV10	SED	15100-62030
SUPRA/CELICA XX	2000	81.07～84.08	MTEU	MA6#	TURBO	15100-43010

TOYOTA

★ : To Be Determined

Model	Year	Engine Type	Body Type	Reference	AISIN No.	Genuine No.			
	2800	81.07～84.08 84.08～85.12	5MGEU 5MGEU	MA6# MA61		OPT-062 OPT-063	15100-43010 15100-43020		
SUPRA	3000	90.07～90.08 96.02～02.08	7MGTEU 2JZGE	MA70 JZA80	TURBO	OPT-059 OPT-070	15100-42021 15100-46042		
SOARER	2000	81.02～84.08 88.01～89.01	MTEU 1GEU	MZ1# GZ20	TURBO	OPT-062 OPT-028	15100-43010 15100-70011		
		2800	81.02～84.08 84.08～85.12	5MGEU 5MGEU	MZ1# MZ11	TURBO	OPT-062 OPT-063	15100-43010 15100-43020	
	3000		84.08～85.12 90.07～91.04	6MGEU 7MGTEU	MZ12 MZ2#	CP,TURBO	OPT-063 OPT-059	15100-43020 15100-42021	
		LEXUS SC400/SOARER	4000	93.12～96.08 94.09～97.09	1UZFE 1UZFE	UZZ32 UZZ31			15100-50031 15100-50022
	LEXUS SC430/SOARER			4300	01.04～05.08 05.08～	3UZFE 3UZFE	UZZ40 UZZ40		★OPT-103 ★OPT-103
IS200/ALTEZZA/ALTEZZA GITA		2000	98.10～ 98.10～		3SGE 1GFE	SXE10 GXE1#			15100-88570 15100-70050
	IS300/ALTEZZA/ALTEZZA GITA		3000	01.06～ 01.06～	2JZGE 2JZGE	JCE10 JCE15		OPT-071	15100-46091 15100-46100
NADIA		2000		98.07～01.04 98.07～03.07	3SFSE 3SFE	SXN10 SXN1#			15100-74070 15100-74050
	AVENSIS		2000	03.07～05.06 03.07～ 05.06～	1AZFSE 1AZFSE 2AZFSE	AZT250 AZT250,255 AZT251	LI		15100-28040 15100-28040 15100-28020
LEXUS ES250/WINDOM		2500		93.08～96.08 96.08～01.07	4VZFE 2MZFE	VCV11 MCV21		OPT-019	15100-62020 15100-20030
				LEXUS ES300/WINDOM	3000	91.10～96.08 96.08～98.08	3VZFE 1MZFE	VCV10 MCV20	
LEXUS GS300/ARISTO	3000	01.05～05.01 97.08～05.01	2JZGE 2JZGTE			JZS160 JZS161	TURBO	OPT-071	15100-46091 15100-46052
		LEXUS GS400/ARISTO	4000	94.09～97.08	1UZFE	UZS143		OPT-011	15100-50022
LEXUS GS430/350	4300	05.08～	3UZFE	UZS190		★OPT-103	15100-50040		
PROGRES	2500	01.04～ 99.12～	1JZFSE 1JZ#	JCG10 JCG15			15100-46111 15100-46100		
		3000	01.04～	2JZFSE	JCG11			15100-46111	
	BREVIS	2500	01.05～ 01.10～	1JZFSE 1JZFSE	JCG10 JCG15			15100-46111 15100-46100	
3000			01.05～	2JZFSE	JCG11			15100-46111	
CROWN COMFORT		1800	96.04～01.08	4SFE	SXS11	SED	OPT-076	15100-74060	
	2000	95.12～02.10	1GGPE	SXS10	SED		15100-70040		
		95.12～	3YPE	YXS1#	SED	OPT-030	15100-71010		
		02.10～	1GFE	GBS12	SED		15100-70060		
		01.08～	1GFE	GXS12	SED	★OPT-106	15100-70050		
		01.08～	3SFE	SXS13	SED	OPT-075	15100-74050		
CROWN/CROWN MAJESTA	2000	00.04～01.08	1GFE	GS171		★OPT-106	15100-70050		
		02.07～03.12	1GFE	GS171		★OPT-106	15100-70050		
		79.09～83.07	MU,MEU,MJ,5MEU	MS11#		OPT-069	15100-45021		
		83.08～84.08	MPU	MS120		OPT-069	15100-45021		
		87.09～89.08	1GE	GS13#		OPT-028	15100-70011		
		87.09～89.08	MP	MS130		OPT-066	15100-43070		

TOYOTA

TOYOTA

★ : To Be Determined

Model	Year	Engine Type	Body Type	Reference	AISIN No.	Genuine No.
	95.08~98.08	1GFE	GS151		OPT-029	15100-70030
	2500 01.05~01.08	1JZGE	JZS171		OPT-071	15100-46091
	01.08~	1JZFSE,2JZFSE	JZS171,175	WG		15100-46111
	01.08~	1JZGE	JZS173	WG		15100-46100
	01.08~03.12	1JZFSE,2JZFSE	JKS175,JZS171,175	SED		15100-46111
	01.08~03.12	1JZGE,2JZGE	JZS173,179	SED		15100-46100
	90.08~91.08	1JZGE	JZS13#			15100-46020
	99.09~01.08	1JZGE,2JZGE	JZS173,179			15100-46100
	3000 01.04~01.08	2JZFSE	JZS175,177			15100-46111
	01.08~04.06	2JZFSE	JZS177			15100-46111
	84.08~87.08	6MGEU	MS125			15100-42010
	91.10~99.04	1GFE	GS13#		OPT-029	15100-70030
	4000 01.08~04.06	1UZFE	UZS17#		★ OPT-103	15100-50040
	95.08~97.07	1UZFE	UZS15#		OPT-011	15100-50022
	99.09~01.08	1UZFE	UZS17#		★ OPT-103	15100-50040
	4300 04.06~	3UZFE	UZS18#		★ OPT-103	15100-50040
CELSIOR/LEXUS LS400	4000 94.10~97.07	1UZFE	UCF2#		OPT-011	15100-50022
CELSIOR/LEXUS LS430	4300 00.08~	3UZFE	UCF3#		★ OPT-103	15100-50040
RAUM	1500 97.05~03.04	5EFE	EXZ1#		OPT-010	15100-11110
	03.04~	1NZFE	NCZ2#		★ OPT-108	15100-21040
ISIS	1800 04.09~	1ZZFE	ZNM10		OPT-044	15100-22041
	2000 04.09~	1AZFSE	ANM1#			15100-28040
GAIA	2000 01.04~02.08	3SFE	SXM15		OPT-075	15100-74050
	98.05~01.04	3SFE	SXM1#		OPT-075	15100-74050
PICNIC/IPSUM	2400 01.05~	2AZFE	ACM2#		★ OPT-096	15100-28020
PREVIA/ESTIMA	2400 06.01~	2AZFE	ACR5#		★ OPT-096	15100-28020
ALPHARD G/V	2400 02.05~	2AZFE	ANH1#		★ OPT-096	15100-28020
	3000 02.05~05.04	1MZFE	MNH1#		★ OPT-100	15100-20050
	05.04~	1MZFE	MNH1#		★ OPT-100	15100-20050
ALPHARD HV	2400 03.07~	2AZFXE	ATH10	HIBRID	★ OPT-096	15100-28020
HARRIER	2200 97.12~03.02	5SFE	SXU1#		OPT-073	15100-74030
	2400 03.02~	2AZFE	ACU3#		★ OPT-096	15100-28020
LEXUS RX300/HARRIER	3000 97.12~03.02	1MZFE	MCU1#		★ OPT-107	15100-20040
	03.02~06.01	1MZFE	MCU3#		★ OPT-100	15100-20050
LEXUS RX330/HARRIER HV	3300 05.03~	3MZFE	MHU38	HIBRID	★ OPT-100	15100-20050
HIGH LANDER/KLUGER L/V	2400 00.11~	2AZFE	ACU2#		★ OPT-096	15100-28020
	3000 00.11~	1MZFE	MCU2#		★ OPT-100	15100-20050
HIGH LANDER/KLUGER HV	3300 05.03~	3MZFE	MHU28	HIBRID	★ OPT-100	15100-20050
LITE/TOWNACE TRUCK	1800 79.10~82.10	13TU	TM20		OPT-046	15100-25020
TOWN/MASTERACE	1600 78.08~82.10	12RJ	RR1#,2#	V,WG	OPT-050	15100-31040
	1800 76.10~82.10	2TJ,12T,13TU	TR1#	V,WG	OPT-046	15100-25020
LITE/TOWNACE NOAH,V	2000 96.10~98.12	3SFE	SR40,50		OPT-075	15100-74050
	98.12~01.11	3SFE	SR40,50		OPT-075	15100-74050
NOAH/VOXY	2000 01.11~04.08	1AZFSE	AZR6#		OPT-048	15100-28030
	04.08~	1AZFSE	AZR6#			15100-28040
HIACE TRUCK	1600 82.11~85.07	12RJ	RH24		OPT-050	15100-31040
GRANVIA/GRAND HIACE	3400 97.08~99.07	5VZFE	VCH1#		OPT-022	15100-62050
	99.07~02.05	5VZFE	VCH1#		OPT-022	15100-62050
	99.07~05.01	5VZFE	VCH2#		OPT-022	15100-62050

TOYOTA

★ : To Be Determined

Model	Year	Engine Type	Body Type	Reference	AISIN No.	Genuine No.
RUSH	1300	06.01~	3SZVE	J200,210		15100-B1010
RAV4	2400	05.11~	2AZFE	ACA3#	★ OPT-096	15100-28020
HILUX	1600	78.08~88.09	12RJ	RN30,33,35,4#	OPT-050	15100-31040
		81.08~83.10	18RJ	RN36,39	OPT-052	15100-34021
4RUNNER/HILUX SURF	3000	90.08~95.11	3VZE	VZN130	OPT-027	15100-65020
	3400	95.11~	5VZFE	VZN18#	OPT-022	15100-62050
		02.11~	5VZFE	VZN21#	OPT-021	15100-62040
STOUT	2000	79.03~86.03	5R	RK11#	OPT-067	15100-44020
LAND CRUISER PRADO	3400	96.04~02.11	5VZFE	VZJ9#	OPT-022	15100-62050
		02.09~05.08	5VZFE	VZJ12#	OPT-021	15100-62040
LAND CRUISER	3000	79.11~	B	BJ4#	VAN	OPT-014 15100-56010
LAND CRUISER	4000	79.11~	F	FJ4#,55	VAN	OPT-015 15100-60012
		87.08~90.01	3F,3FE	FJ62	VAN	OPT-017 15100-61011
		90.06~92.08	3F	FJ 75	S/T,H/ T	OPT-018 15100-61020
	4700	98.01~02.08	2UZFE	UZJ100		OPT-012 15100-50050
		02.08~	2UZFE	UZJ100		OPT-012 15100-50050
TOYOACE	1600	79.03~85.07	12R	RY2#		OPT-050 15100-31040
	2000	79.03~85.07	5R	RY3#		OPT-068 15100-44030
	2500	79.04~83.08	2J	JY30		15100-48021
DYNA/TOYOACE	2500	79.04~80.08	2J	JU20		15100-48021
	2000	77.08~84.08	5R	RU2#,3#		OPT-068 15100-44030
	3600	77.08~80.08	H	HU30		OPT-072 15100-47030
COASTER	2400	82.05~82.12	22R	RB20	WC	OPT-053 15100-35010
		82.05~82.12	22R	RB20	W/ PS	OPT-053 15100-35010
		82.12~84.08	22R	RB20		OPT-053 15100-35010
		84.08~93.01	22R	RB2#		OPT-054 15100-35020

TOYOTA

[illegible]

Cross Reference List

- Genuine No. → AISIN No. (Table-1) 18
- AISIN No. → Genuine No. (Table-2) 21

Cross Reference List / Genuine No. → AISIN No.

★ : To Be Determined

Genuine No.	AISIN No.	Make
15100-09030	OPT-001	TOYOTA
15100-10020	OPT-002	TOYOTA
15100-11020	OPT-003	TOYOTA
15100-11021	OPT-004	TOYOTA
15100-11050	OPT-005	TOYOTA
15100-11051	OPT-006	TOYOTA
15100-11070	OPT-007	TOYOTA
15100-11071	OPT-008	TOYOTA
15100-11090	OPT-009	TOYOTA
15100-11110	OPT-010	TOYOTA
15100-15020	OPT-031	TOYOTA
15100-15050	★ OPT-097	TOYOTA
15100-15060	OPT-032	TOYOTA
15100-15080	OPT-033	TOYOTA
15100-16040	OPT-034	TOYOTA
15100-16070	OPT-035	TOYOTA
15100-19036	OPT-036	TOYOTA
15100-19045	★ OPT-101	TOYOTA
15100-20020	OPT-037	TOYOTA
15100-20040	★ OPT-107	TOYOTA
15100-20050	★ OPT-100	TOYOTA
15100-21030	OPT-038	TOYOTA
15100-21040	★ OPT-108	TOYOTA
15100-21050	OPT-039	TOYOTA
15100-22011	OPT-040	TOYOTA
15100-22020	OPT-042	TOYOTA
15100-22021	OPT-042	TOYOTA
15100-22040	OPT-044	TOYOTA
15100-22041	OPT-044	TOYOTA
15100-25012	OPT-045	TOYOTA
15100-25020	OPT-046	TOYOTA
15100-26020	OPT-047	TOYOTA
15100-27010	★ OPT-098	TOYOTA
15100-27020	★ OPT-105	TOYOTA
15100-27030	★ OPT-099	TOYOTA

Genuine No.	AISIN No.	Make
15100-28020	★ OPT-096	TOYOTA
15100-28030	OPT-048	TOYOTA
15100-31030	OPT-049	TOYOTA
15100-31040	OPT-050	TOYOTA
15100-33012	OPT-051	TOYOTA
15100-33020	★ OPT-102	TOYOTA
15100-34021	OPT-052	TOYOTA
15100-35010	OPT-053	TOYOTA
15100-35020	OPT-054	TOYOTA
15100-35030	OPT-055	TOYOTA
15100-36011	OPT-056	TOYOTA
15100-38010	OPT-057	TOYOTA
15100-41030	OPT-058	TOYOTA
15100-42021	OPT-059	TOYOTA
15100-42031	OPT-060	TOYOTA
15100-42060	OPT-061	TOYOTA
15100-43010	OPT-062	TOYOTA
15100-43020	OPT-063	TOYOTA
15100-43030	OPT-064	TOYOTA
15100-43050	OPT-065	TOYOTA
15100-43070	OPT-066	TOYOTA
15100-44020	OPT-067	TOYOTA
15100-44030	OPT-068	TOYOTA
15100-45021	OPT-069	TOYOTA
15100-46042	OPT-070	TOYOTA
15100-46091	OPT-071	TOYOTA
15100-47030	OPT-072	TOYOTA
15100-50022	OPT-011	TOYOTA
15100-50040	★ OPT-103	TOYOTA
15100-50050	OPT-012	TOYOTA
15100-55011	OPT-013	TOYOTA
15100-56010	OPT-014	TOYOTA
15100-60012	OPT-015	TOYOTA
15100-60020	OPT-016	TOYOTA
15100-61011	OPT-017	TOYOTA

★ : To Be Determined

Genuine No.	AISIN No.	Make
15100-61020	OPT-018	TOYOTA
15100-62020	OPT-019	TOYOTA
15100-62030	OPT-020	TOYOTA
15100-62040	OPT-021	TOYOTA
15100-62050	OPT-022	TOYOTA
15100-63010	OPT-023	TOYOTA
15100-64032	OPT-024	TOYOTA
15100-64042	OPT-025	TOYOTA
15100-64053	OPT-026	TOYOTA
15100-64063	★ OPT-104	TOYOTA
15100-65020	OPT-027	TOYOTA
15100-70011	OPT-028	TOYOTA
15100-70030	OPT-029	TOYOTA
15100-70050	★ OPT-106	TOYOTA
15100-71010	OPT-030	TOYOTA
15100-74030	OPT-073	TOYOTA
15100-74040	OPT-074	TOYOTA
15100-74050	OPT-075	TOYOTA
15100-74060	OPT-076	TOYOTA
15100-76031	OPT-077	TOYOTA
15100-88360	OPT-078	TOYOTA
15100-88381	OPT-079	TOYOTA
15100-88382	OPT-080	TOYOTA

Table - 1

★ : To Be Determined

Genuine No.	AISIN No.	Make
15100-B1010	★ OPD-001	DAIHATSU
15100-B0020	★ OPD-002	DAIHATSU
8-94202-463-1	OPG-007	ISUZU
8-94215-637-0	OPG-005	ISUZU
8-94310-719-1	OPG-001	ISUZU
8-94327-008-0	OPG-003	ISUZU
8-94331-475-0	OPG-006	ISUZU
8-94366-091-0	OPG-004	ISUZU
8-97103-865-0	OPG-008	ISUZU
8-97136-463-0	★ OPG-011	ISUZU
8-97136-464-0	OPG-009	ISUZU
8-97288-755-1	★ OPG-012	ISUZU
8-97288-756-1	★ OPG-010	ISUZU
8-97309-498-1	OPG-002	ISUZU
15100-P2J-0051	★ OPH-002	HONDA
15100-PL-0053	★ OPH-001	HONDA
MD001400	OPM-001	MAZDA
MD005400	OPM-002	MAZDA
MD011430	OPM-003	MAZDA
16100-82605	OPS-001	SUZUKI
16100-82608	★ OPS-003	SUZUKI
16100-86502	OPS-002	SUZUKI

Genuine No.	AISIN No.	Make
16109-82607	★ OPS-004	SUZUKI
15100-21910-71	★ OPW-016	INDUSTRIAL VEHICLE
15100-75002-71	OPT-082	INDUSTRIAL VEHICLE
15100-76001-71	OPT-081	INDUSTRIAL VEHICLE
15100-76003-71	OPT-083	INDUSTRIAL VEHICLE
15100-76004-71	OPT-084	INDUSTRIAL VEHICLE
15100-76006-71	OPT-086	INDUSTRIAL VEHICLE
15100-76009-71	OPT-095	INDUSTRIAL VEHICLE
15100-76022-71	OPT-085	INDUSTRIAL VEHICLE
15100-78200-71	OPT-090	INDUSTRIAL VEHICLE
15100-78201-71	OPT-093	INDUSTRIAL VEHICLE
15100-78202-71	OPT-094	INDUSTRIAL VEHICLE
15100-78203-71	★ OPW-017	INDUSTRIAL VEHICLE
15100-78300-71	OPT-087	INDUSTRIAL VEHICLE
15100-78330-71	OPT-088	INDUSTRIAL VEHICLE
15100-78331-71	OPT-089	INDUSTRIAL VEHICLE
15100-78332-71	OPT-092	INDUSTRIAL VEHICLE
15100-78333-71	★ OPW-018	INDUSTRIAL VEHICLE
15100-78700-71	OPT-091	INDUSTRIAL VEHICLE

Cross Reference List / AISIN No. → Genuine No.

★ : To Be Determined

AISIN No.	Genuine No.	Make
OPT-001	15100-09030	TOYOTA
OPT-002	15100-10020	TOYOTA
OPT-003	15100-11020	TOYOTA
OPT-004	15100-11021	TOYOTA
OPT-005	15100-11050	TOYOTA
OPT-006	15100-11051	TOYOTA
OPT-007	15100-11070	TOYOTA
OPT-008	15100-11071	TOYOTA
OPT-009	15100-11090	TOYOTA
OPT-010	15100-11110	TOYOTA
OPT-011	15100-50022	TOYOTA
OPT-012	15100-50050	TOYOTA
OPT-013	15100-55011	TOYOTA
OPT-014	15100-56010	TOYOTA
OPT-015	15100-60012	TOYOTA
OPT-016	15100-60020	TOYOTA
OPT-017	15100-61011	TOYOTA
OPT-018	15100-61020	TOYOTA
OPT-019	15100-62020	TOYOTA
OPT-020	15100-62030	TOYOTA
OPT-021	15100-62040	TOYOTA
OPT-022	15100-62050	TOYOTA
OPT-023	15100-63010	TOYOTA
OPT-024	15100-64032	TOYOTA
OPT-025	15100-64042	TOYOTA
OPT-026	15100-64053	TOYOTA
OPT-027	15100-65020	TOYOTA
OPT-028	15100-70011	TOYOTA
OPT-029	15100-70030	TOYOTA
OPT-030	15100-71010	TOYOTA
OPT-031	15100-15020	TOYOTA
OPT-032	15100-15060	TOYOTA
OPT-033	15100-15080	TOYOTA
OPT-034	15100-16040	TOYOTA
OPT-035	15100-16070	TOYOTA

AISIN No.	Genuine No.	Make
OPT-036	15100-19036	TOYOTA
OPT-037	15100-20020	TOYOTA
OPT-038	15100-21030	TOYOTA
OPT-039	15100-21050	TOYOTA
OPT-040	15100-22011	TOYOTA
OPT-042	15100-22020	TOYOTA
OPT-042	15100-22021	TOYOTA
OPT-044	15100-22040	TOYOTA
OPT-044	15100-22041	TOYOTA
OPT-045	15100-25012	TOYOTA
OPT-046	15100-25020	TOYOTA
OPT-047	15100-26020	TOYOTA
OPT-048	15100-28030	TOYOTA
OPT-049	15100-31030	TOYOTA
OPT-050	15100-31040	TOYOTA
OPT-051	15100-33012	TOYOTA
OPT-052	15100-34021	TOYOTA
OPT-053	15100-35010	TOYOTA
OPT-054	15100-35020	TOYOTA
OPT-055	15100-35030	TOYOTA
OPT-056	15100-36011	TOYOTA
OPT-057	15100-38010	TOYOTA
OPT-058	15100-41030	TOYOTA
OPT-059	15100-42021	TOYOTA
OPT-060	15100-42031	TOYOTA
OPT-061	15100-42060	TOYOTA
OPT-062	15100-43010	TOYOTA
OPT-063	15100-43020	TOYOTA
OPT-064	15100-43030	TOYOTA
OPT-065	15100-43050	TOYOTA
OPT-066	15100-43070	TOYOTA
OPT-067	15100-44020	TOYOTA
OPT-068	15100-44030	TOYOTA
OPT-069	15100-45021	TOYOTA
OPT-070	15100-46042	TOYOTA

Table - 2

★ : To Be Determined

AISIN No.	Genuine No.	Make
OPT-071	15100-46091	TOYOTA
OPT-072	15100-47030	TOYOTA
OPT-073	15100-74030	TOYOTA
OPT-074	15100-74040	TOYOTA
OPT-075	15100-74050	TOYOTA
OPT-076	15100-74060	TOYOTA
OPT-077	15100-76031	TOYOTA
OPT-078	15100-88360	TOYOTA
OPT-079	15100-88381	TOYOTA
OPT-080	15100-88382	TOYOTA
★ OPT-096	15100-28020	TOYOTA
★ OPT-097	15100-15050	TOYOTA
★ OPT-098	15100-27010	TOYOTA
★ OPT-099	15100-27030	TOYOTA
★ OPT-100	15100-20050	TOYOTA
★ OPT-101	15100-19045	TOYOTA
★ OPT-102	15100-33020	TOYOTA
★ OPT-103	15100-50040	TOYOTA
★ OPT-104	15100-64063	TOYOTA
★ OPT-105	15100-27020	TOYOTA
★ OPT-106	15100-70050	TOYOTA
★ OPT-107	15100-20040	TOYOTA
★ OPT-108	15100-21040	TOYOTA

★ : To Be Determined

AISIN No.	Genuine No.	Make
★ OPD-001	15100-B1010	DAIHATSU
★ OPD-002	15100-B0020	DAIHATSU
OPG-001	8-94310-719-1	ISUZU
OPG-002	8-97309-498-1	ISUZU
OPG-003	8-94327-008-0	ISUZU
OPG-004	8-94366-091-0	ISUZU
OPG-005	8-94215-637-0	ISUZU
OPG-006	8-94331-475-0	ISUZU
OPG-007	8-94202-463-1	ISUZU
OPG-008	8-97103-865-0	ISUZU
OPG-009	8-97136-464-0	ISUZU
★ OPG-010	8-97288-756-1	ISUZU
★ OPG-011	8-97136-463-0	ISUZU
★ OPG-012	8-97288-755-1	ISUZU
★ OPH-001	15100-PLD-0053	HONDA
★ OPH-002	15100-P2J-0051	HONDA
OPM-001	MD001400	MAZDA
OPM-002	MD005400	MAZDA
OPM-003	MD011430	MAZDA
OPS-001	16100-82605	SUZUKI
OPS-002	16100-86502	SUZUKI

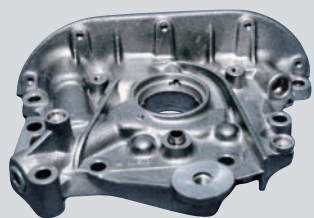
AISIN No.	Genuine No.	Make
★ OPS-003	16100-82608	SUZUKI
★ OPS-004	16109-82607	SUZUKI
OPT-081	15100-76001-71	INDUSTRIAL VEHICLE
OPT-082	15100-75002-71	INDUSTRIAL VEHICLE
OPT-083	15100-76003-71	INDUSTRIAL VEHICLE
OPT-084	15100-76004-71	INDUSTRIAL VEHICLE
OPT-085	15100-76022-71	INDUSTRIAL VEHICLE
OPT-086	15100-76006-71	INDUSTRIAL VEHICLE
OPT-087	15100-78300-71	INDUSTRIAL VEHICLE
OPT-088	15100-78330-71	INDUSTRIAL VEHICLE
OPT-089	15100-78331-71	INDUSTRIAL VEHICLE
OPT-090	15100-78200-71	INDUSTRIAL VEHICLE
OPT-091	15100-78700-71	INDUSTRIAL VEHICLE
OPT-092	15100-78332-71	INDUSTRIAL VEHICLE
OPT-093	15100-78201-71	INDUSTRIAL VEHICLE
OPT-094	15100-78202-71	INDUSTRIAL VEHICLE
OPT-095	15100-76009-71	INDUSTRIAL VEHICLE
★ OPW-016	15100-21910-71	INDUSTRIAL VEHICLE
★ OPW-017	15100-78203-71	INDUSTRIAL VEHICLE
★ OPW-018	15100-78333-71	INDUSTRIAL VEHICLE

Table - 2

[illegible]

Illustrations

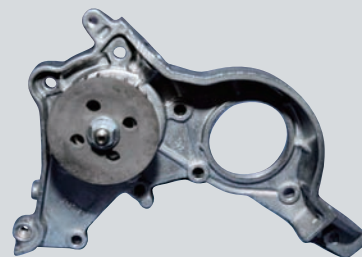
Illustrations (TOYOTA)



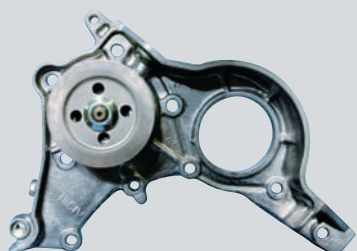
OPT-001



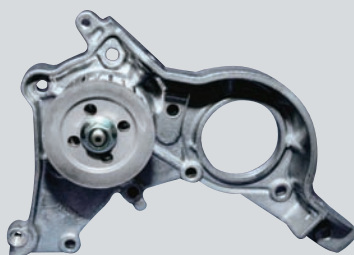
OPT-002



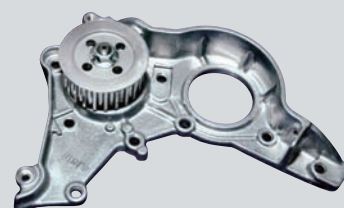
OPT-003



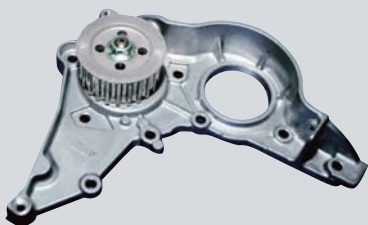
OPT-004



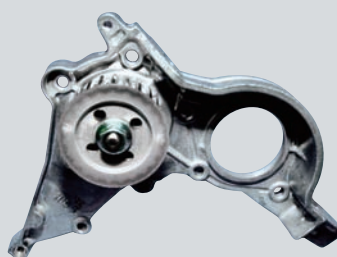
OPT-005



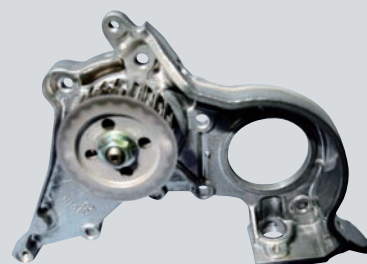
OPT-006



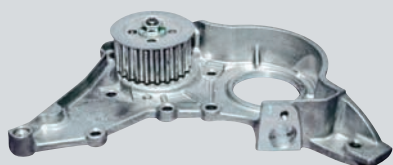
OPT-007



OPT-008



OPT-009



OPT-010



OPT-011

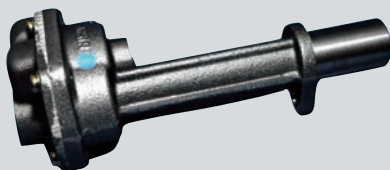


OPT-012

Illustrations (TOYOTA)



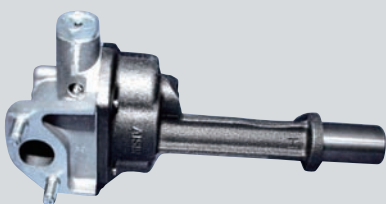
OPT-014



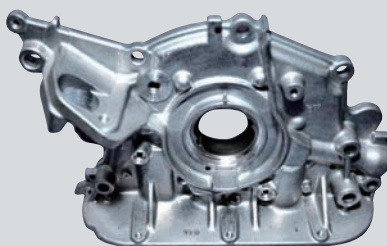
OPT-015



OPT-017



OPT-018



OPT-020



OPT-021



OPT-022



OPT-024



OPT-025



OPT-027

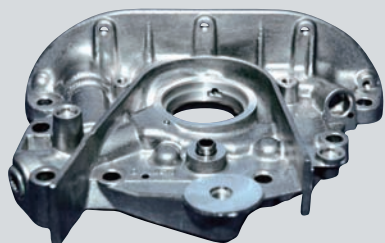


OPT-030



OPT-031

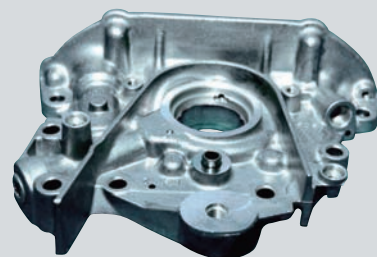
Illustrations (TOYOTA)



OPT- 032



OPT- 033



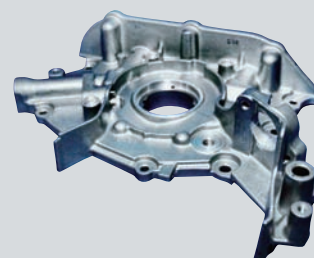
OPT- 034



OPT- 035



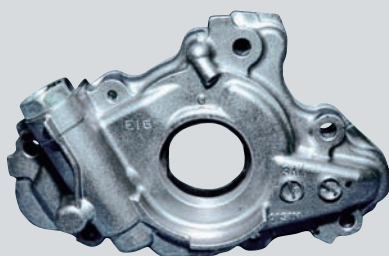
OPT- 036



OPT- 037



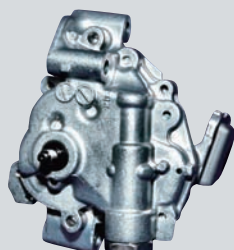
OPT- 042



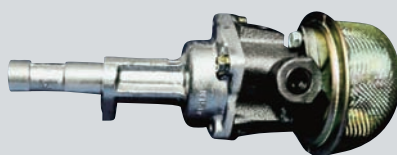
OPT- 044



OPT- 046



OPT- 048

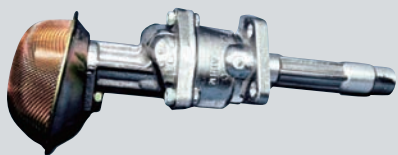


OPT- 049



OPT- 050

Illustrations (TOYOTA)



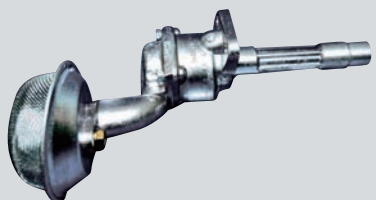
OPT-051



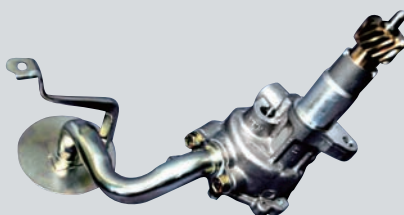
OPT-053



OPT-054



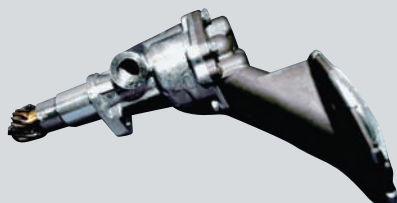
OPT-056



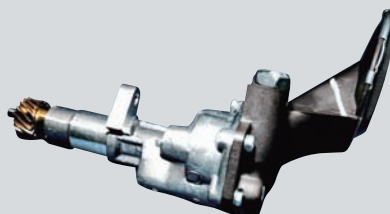
OPT-059



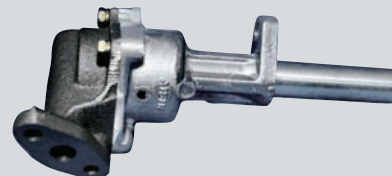
OPT-060



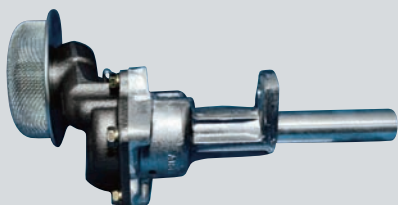
OPT-063



OPT-065



OPT-067



OPT-068

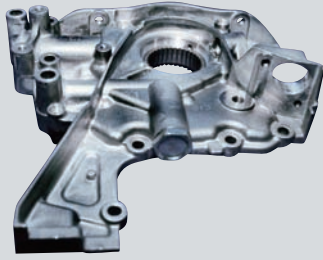


OPT-069

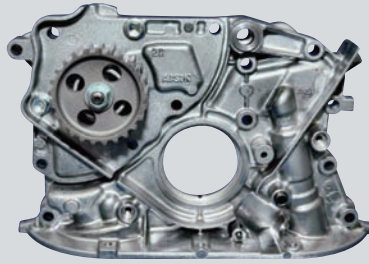


OPT-070

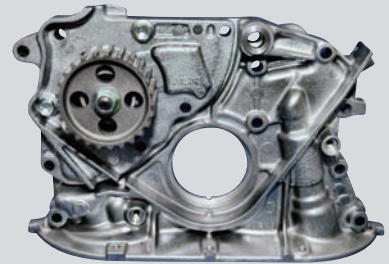
Illustrations (TOYOTA)



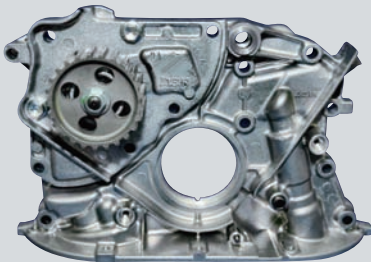
OPT-071



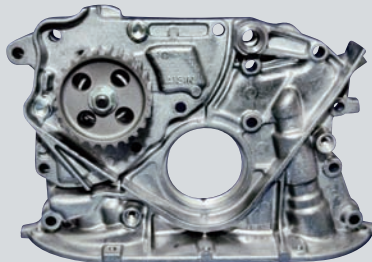
OPT-073



OPT-074



OPT-075

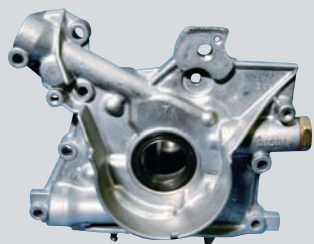


OPT-076

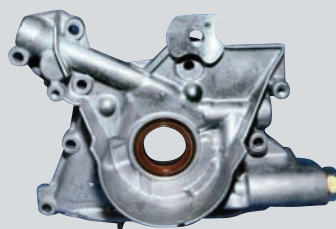
※ Illustrations currently unavailable :

OPT-013, OPT-016, OPT-019, OPT-023, OPT-026, OPT-028, OPT-029, OPT-038,
OPT-039, OPT-040, OPT-045, OPT-047, OPT-052, OPT-055, OPT-057, OPT-058,
OPT-061, OPT-062, OPT-064, OPT-066, OPT-072, OPT-077, OPT-078, OPT-079,
OPT-080, OPT-096, OPT-097, OPT-098, OPT-099, OPT-100, OPT-101, OPT-102,
OPT-103, OPT-104, OPT-105, OPT-106, OPT-107, OPT-108

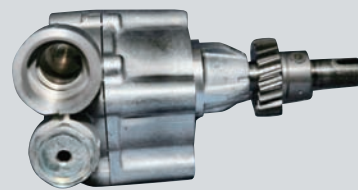
Illustrations (Others)



OPG-001



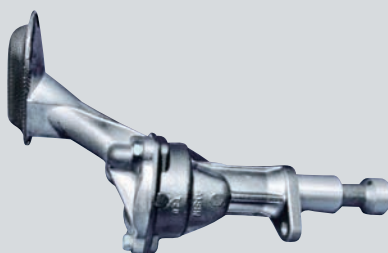
OPG-003



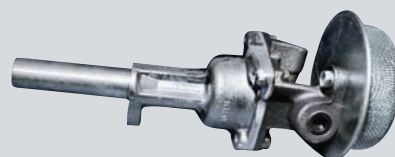
OPG-007



OPS-001



OPT-081



OPT-083



OPT-086



OPT-087



OPT-088



OPT-089



OPT-090



OPT-091

Illustrations (Others)



OPT-092



OPT-093



OPT-094



OPT-095

※ Illustrations currently unavailable :

OPD-001, OPD-002, OPG-002, OPG-004, OPG-005, OPG-006, OPG-008, OPG-009,
OPG-010, OPG-011, OPG-012, OPH-001, OPH-002, OPM-001, OPM-002, OPM-003,
OPS-002, OPS-003, OPS-004, OPT-082, OPT-084, OPT-085, OPW-016, OPW-017,
OPW-018

Published on October 25, 2006

Edited and Published by

AISIN SEIKI CO., LTD

MARKETING & SALES CENTER,

AUTOMOTIVE SYSTEMS

AFTER MARKET DEPT.

2-1, ASAHI-MACHI, KARIYA, AICHI, JAPAN

Printed in Japan

AISIN
Geared up for the future



**You've been using our products for years...
you just didn't know it... AISIN**



www.aisinaftermarket.jp



AISIN SEIKI Co.,Ltd.
AICHI, JAPAN
<http://www.aisinaftermarket.jp>

