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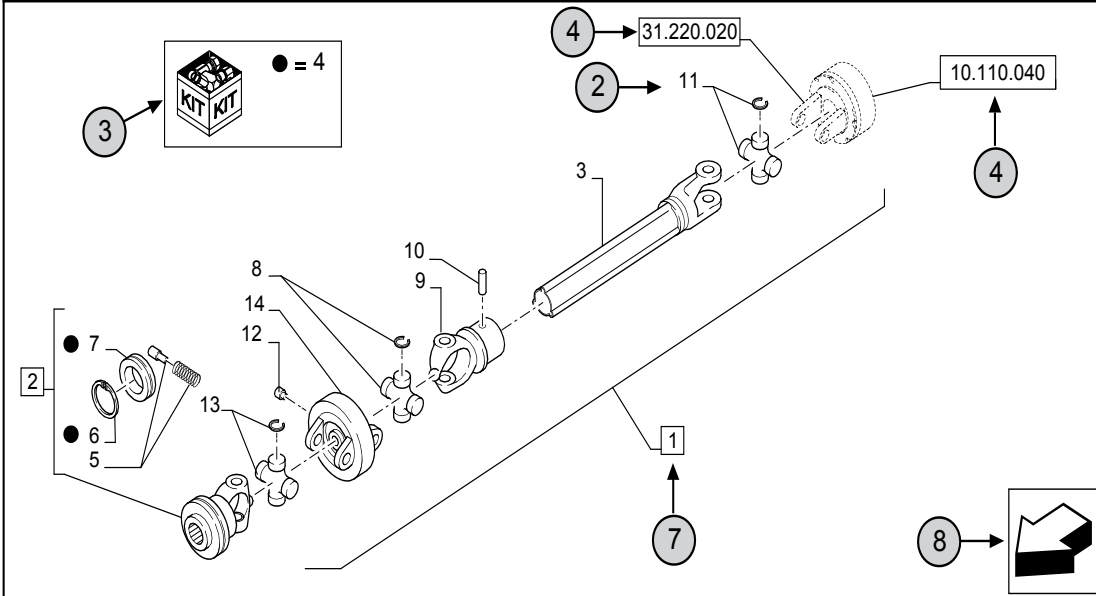
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31.220.010	01	p1	10/2014
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VAR - 123782, 789101,987654 - PTO - D650



STANDARD ← 6

23	9	10	31.220.010	01	p1	10/2014
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VAR - 123782, 789101,987654 - PTO - D650

11 12 13 14

REF	FN	PART NUMBER	YR/SN	QTY	DESCRIPTION
1	1	86529340	20	1	SHAFT PTO, Incl 2 - 11
2	15	84014007		1	YOKE, Incl 4 - 7 ← 7
3	16	NSS		1	NOT SERVICED SEPARATELY, SHAFT, 350mm, Incl in 1
4		84004292		1	KIT, Seal Kit, Incl 6, 7 ← 17
4		{84058743}		1	KIT, Seal Kit, Incl 6, 7
2				21	
18				22	
19					
		1 = FOR ITALY ONLY ← 5			

MODELS ← 1


- 1 Model Number and Model Description
- 2 Reference - Figure call-out of the part number.
- 3 Parts supplied in repair kits per symbol reference.
- 4 31.220.020 Part illustrated on the **Page** or in the **Figure** indicated, or calls for **Variations** or **Details**. Indicates components shown in detail elsewhere in the catalogue under the figure number shown.
- 5 Footnote references
- 6 Figure notes
- 7 1 2 Includes item(s) (See Description within partlist).
- 8 Orientation. (Arrow indicates front of the machine). 
- 9 Figure description.
- 10 General information of the figure.
- 11 Figure title number that aligns with the SRT. Standard Repair Time.
- 12 **Sequence** code within the assembly.
- 13 Page number within the sequence code.
- 14 **Date** of printing or updating of page (month-year).
- 15 **Note** - Relating to the Part Number. There is a key to symbols and abbreviations at the bottom of the text page.
- 16 Non-serviced parts.
- 17 Further description of the part to help confirm identification.
- 18 Not available as service part.
- 19 Part Number.
- 20 To be defined.
- 21 Total **Quantity** of the Part referred to in the page.
The quantity can be replaced by the following indications:
AR = quantity as requested.
- 22 Part **Description**.
- 23 Variant Codes

TABLE OF CONTENTS

01-001	CYLINDER BLOCK
01-002	CRANKSHAFT BEARING
01-003	OIL PAN
01-004	FLYWHEEL HOUSING, ASSY
01-005	TIMING, GEAR CASE
01-006	CYLINDER HEAD
01-007	ROCKER COVER
01-008	PISTON
01-009	CONNECTING ROD & BEARING
01-010	FLYWHEEL
01-011	CRANKSHAFT & PULLEY
01-012	CAMSHAFT
01-013	TIMING GEAR
01-014	VALVE, GEAR TRAIN
01-015	INLET MANIFOLD
01-016	EXHAUST MANIFOLD
01-017	TURBO-CHARGER GENERAL
01-018	TURBO-CHARGER (INNER PARTS)
01-019	ENGINE ATTACHING PARTS
01-020	BREATHER & OIL FILLER
01-021	ENGINE HANGER
01-022	OIL FILLER & LEVEL GAUGE
01-023	TACHOMETER GEAR
02-001	WATER PUMP
02-002	WATER PIPE & THERMOSTAT
02-003	WATER TEMP GAUGE UNIT
02-004	FAN & PULLEY
02-005	OIL PUMP & GEAR TRAIN
02-006	OIL FILTER
02-007	OIL STRAINER
02-008	OIL PRESS SW & GAUGE UNIT
02-009	OIL LINE
02-010	OIL COOLER
04-001	STARTER GENERAL
04-002	STARTER (INNER PARTS), P/N ME037507
04-003	STARTER (INNER PARTS), P/N ME087521

TABLE OF CONTENTS

04-004	STARTER (INNER PARTS), P/N ME087590
04-005	ALTERNATOR GENERAL
04-006	ALTERNATOR (INNER PARTS)
05-001	INSTRUMENT
06-001	NAME-PLATE
07-001	CYLINDER BLOCK REPAIR KIT
07-002	CYLINDER HEAD REPAIR KIT
07-003	ENGINE OIL SEAL KIT
07-004	LINER & PISTON KIT
07-005	ENGINE GASKET KIT
03-001	FUEL INJECTION PUMP GENERAL
03-002	INJECTION PUMP (INNER PARTS)
03-003	GOVERNOR (INNER PARTS)
03-004	FUEL FEED PUMP (INNER PARTS)
03-005	AUTOMATIC TIMER (INNER PARTS)
03-006	FUEL INJECTION PIPE
03-007	FUEL INJECTION NOZZLE
03-008	FUEL FILTER
03-009	FUEL HOSE
03-010	FUEL RETURN SYSTEM

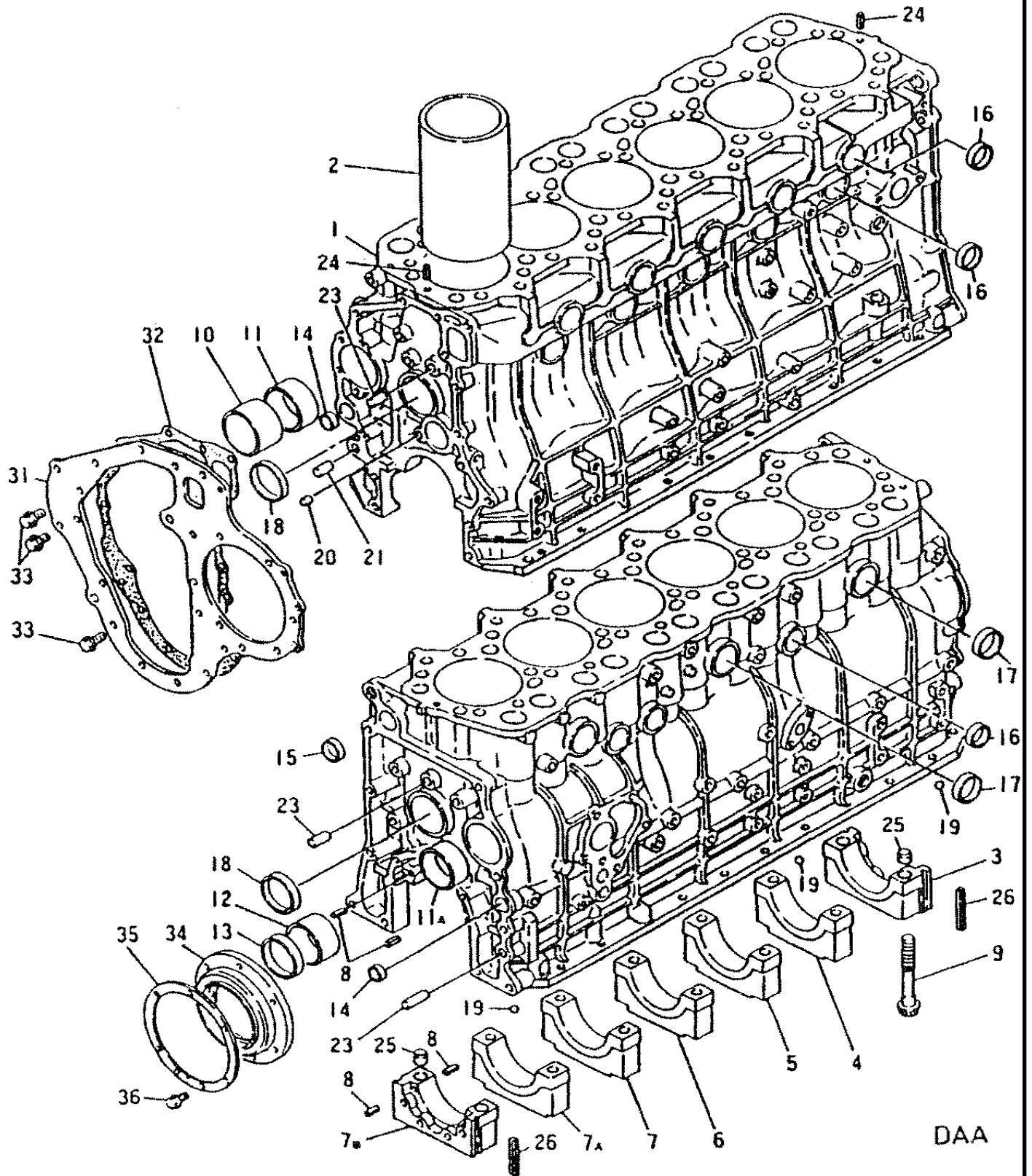
SECTION INDEX

Base Engine

01-001	CYLINDER BLOCK
01-002	CRANKSHAFT BEARING
01-003	OIL PAN
01-004	FLYWHEEL HOUSING, ASSY
01-005	TIMING, GEAR CASE
01-006	CYLINDER HEAD
01-007	ROCKER COVER
01-008	PISTON
01-009	CONNECTING ROD & BEARING
01-010	FLYWHEEL
01-011	CRANKSHAFT & PULLEY
01-012	CAMSHAFT
01-013	TIMING GEAR
01-014	VALVE, GEAR TRAIN
01-015	INLET MANIFOLD
01-016	EXHAUST MANIFOLD
01-017	TURBO-CHARGER GENERAL
01-018	TURBO-CHARGER (INNER PARTS)
01-019	ENGINE ATTACHING PARTS
01-020	BREATHER & OIL FILLER
01-021	ENGINE HANGER
01-022	OIL FILLER & LEVEL GAUGE
01-023	TACHOMETER GEAR

CYLINDER BLOCK

020-110A



DAA

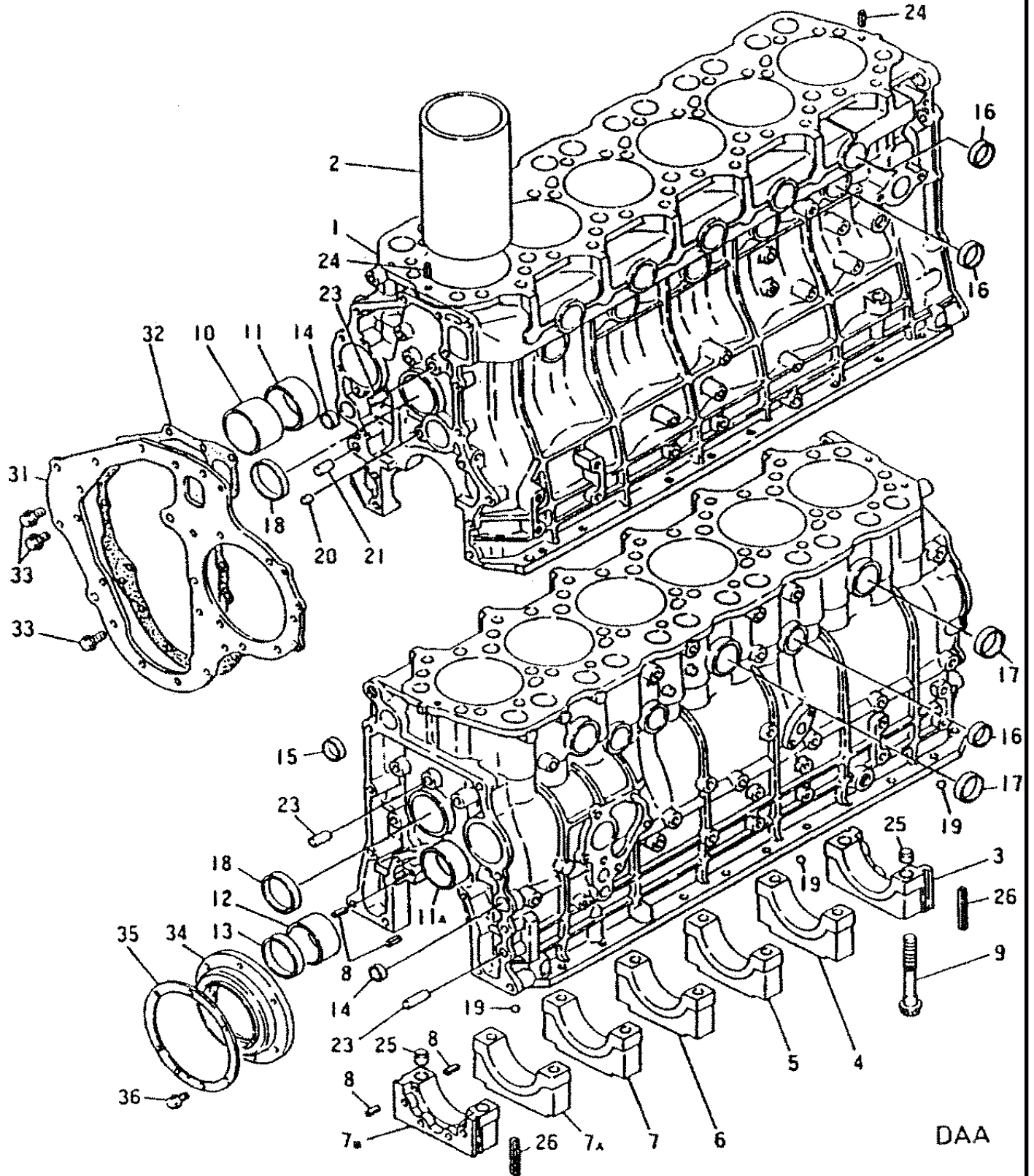
CYLINDER BLOCK

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1	NSS		1 NOT SOLD SEPARAT CRANKCASE
2	VAME011626		6 SLEEVE CYLINDER SLEEVE,CYL STD
2	VAME011627		AR SLEEVE CYLINDER SLEEVE,CYL, OS 0.50
3	NSS		1 NOT SOLD SEPARAT CAP.BRG N0.1
4	NSS		1 NOT SOLD SEPARAT CAP.BRG N0.2
5	NSS		1 NOT SOLD SEPARAT CAP, BRG N0.3
6	NSS		1 NOT SOLD SEPARAT CAP, BRG N0.4
7	NSS		1 NOT SOLD SEPARAT CAP, BRG N0.5
7A	NSS		3 NOT SOLD SEPARAT CAP, BRG N0.6
7B	NSS		1 NOT SOLD SEPARAT CAP, BRG N0.7
8	VAMH012041		6 PIN PIN, SPG 4X10
9	VAME011519		14 SCREW BOLT 14X102
10	VAME029225		1 BUSHING BUSHING,CAMSHAFT NO.1
11	VAME011593		1 BUSHING BUSHING,CAMSHAFT NO.2
11A	VAME081526		1 BEARING LINER SCREW BUSHING,CAMSHAFT NO.3
12	VAME011594		1 BUSHING BUSHING,CAMSHAFT NO.4
13	VAMH037751		1 CAP CAP,SEALING 57
14	VAMS666136		2 PLUG CAP,SEALING 22
15	VAMS666138		1 CAP CAP,SEALING 28
16	VAMS666140		12 PLUG CAP,SEALING 35
17	VAMD000427		3 PLUG CAP,SEALING 40
18	VAMH037754		2 CAP CAP,SEALING 50
19	VAMF540011		4 BALL BALL,STEEL
20	VAME029046		1 PLUG PLUG
21	VAMF472406		1 PIN PIN,DOWEL 12,FOR FR
23	VAMH007010		3 PIN PIN.DOWEL 12,FOR RE
24	VAMF472587		2 PIN PIN.DOWEL 6X16,FOR CYL HEAD
25	VAME011618		4 PIN PIN,DOWEL ,FOR BRGCAP
26	VAME021111		4 SEAL SEAL SIDE
31	VAME011596		1 PLATE PLATE , FR
32	VAME011598		1 GASKET GASKET ,FR PLATE
33	VAMF140223		4 BOLT BOLTFLANG 8X16

6D31-T-MITSUBISHI DIESEL ENGINE

CYLINDER BLOCK

020-110A



DAA

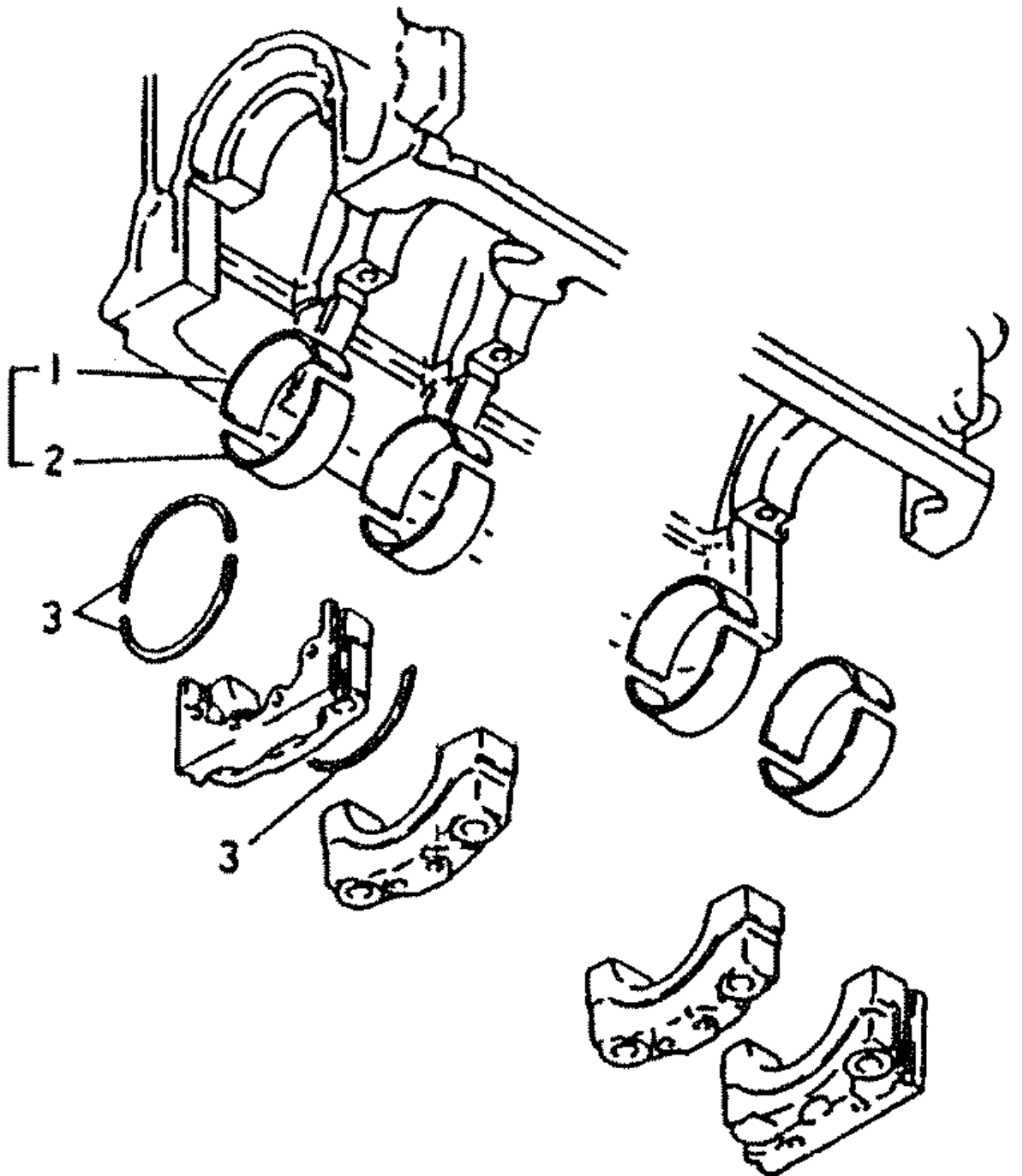
CYLINDER BLOCK

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
34	VAME011754		1 OIL SEAL OIL SEAL, RE
35	VAME011707		1 SWASH PLATE PLATE , WSR
36	VAMF140203		7 BOLT BOLT,FLANGE 6X12

6D31-T-MITSUBISHI DIESEL ENGINE

CRANKSHAFT BEARING

020-120A



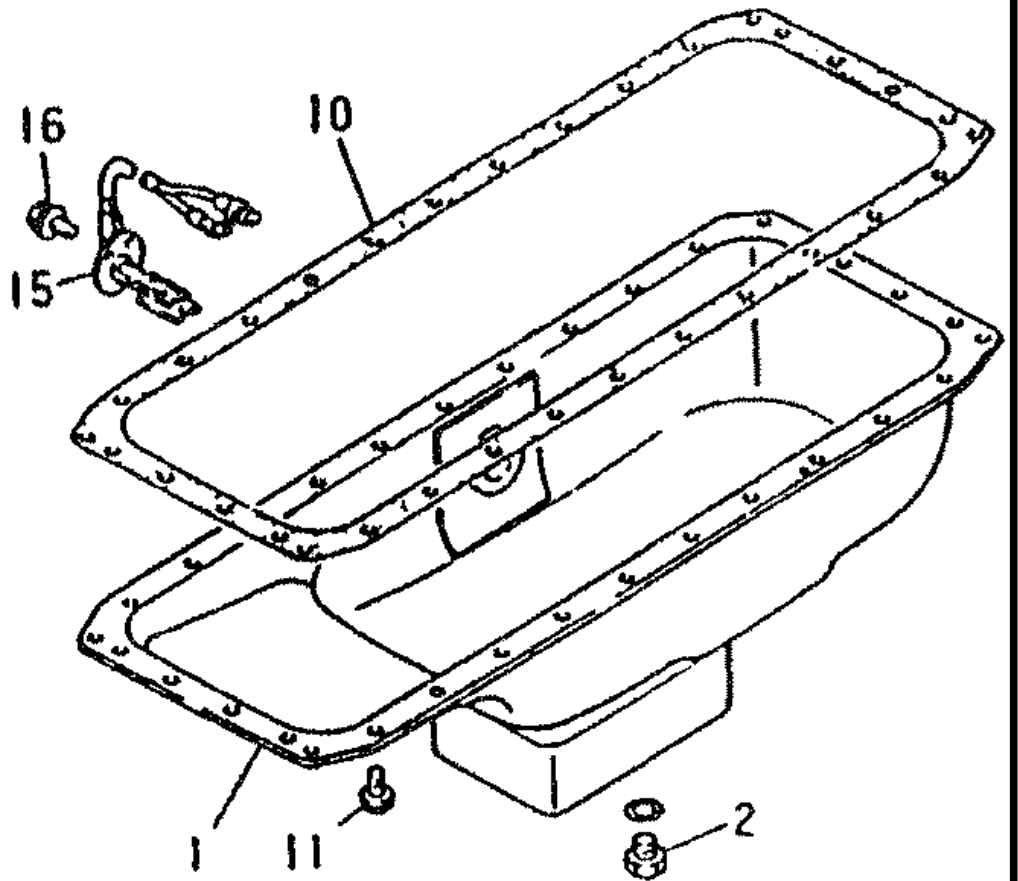
CRANKSHAFT BEARING

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1-2	VAME999711		1 SET OF CONN ROD BRGS MAIN BEARING SET ONE MODEL ,STD
1-2	VAME999712		AR BEARING MAIN BEARING SET ONE MODEL, US 0.25
1-2	VAME999713		AR BEARING MAIN BEARING SET ONE MODEL, US 0.50
1-2	VAME999714		AR BEARING MAIN BEARING SET ONE MODEL, US 0.75
1-2	VAME999715		AR BEARING MAIN BEARING SET ONE MODEL, US 1.00
1	NSS		7 NOT SOLD SEPARAT BEARING,MAIN UPPER STD
2	NSS		7 NOT SOLD SEPARAT BEARING,MAIN LOWER STD
3	VAME020328		3 THRUST PLATE PLATE.THRUST STD
3	{VAME020329}		AR THRUST PLATE O.S 0.1 PLATE.THRUST, OS 6.15
3	{VAME020330}		AR PLATE THRUST O.S. PLATE.THRUST ,OS 0.30
3	{VAME020331}		AR METAL 045 PLATE.THRUST ,OS 0.45

6D31-T-MITSUBISHI DIESEL ENGINE

OIL PAN

020-150A



OIL PAN

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1	{VAME088222}		1 SECURING STRAP PAN,OIL
2	VAMH037126		1 PLUG 18mm OD x 1.5 Thd Pitch DRAIN
	VAMH035018		1 GASKET 18
10	VAME088179		1 GASKET T=1.6
11	VAMF140223		32 BOLT FLANGE 8X16
15	VAMC840577		1 SWITCH OIL LEVEL
16	VAMF140002		3 SCREW BOLT,FLANGE 6X10

6D31-T-MITSUBISHI DIESEL ENGINE

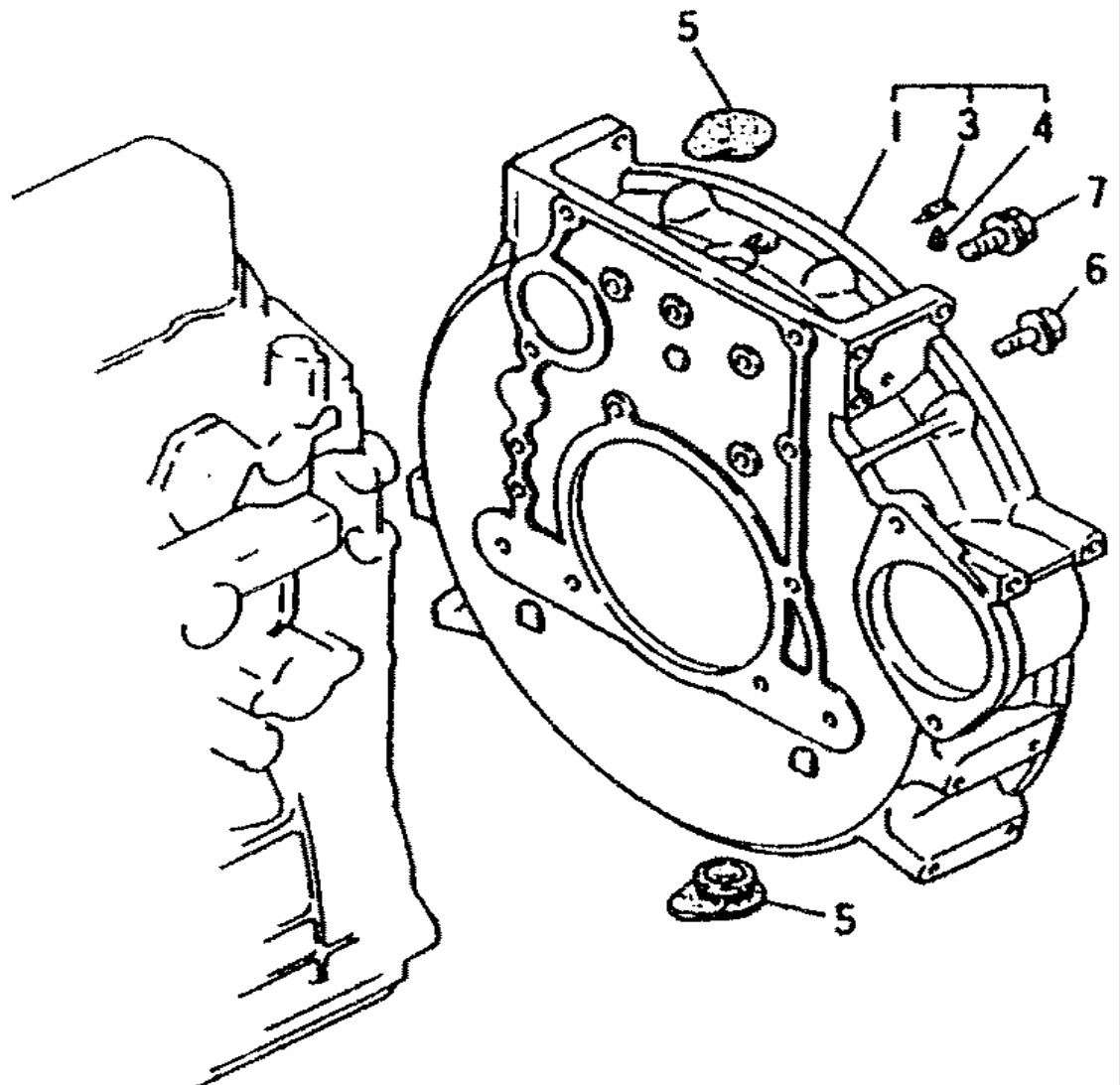
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p1

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FLYWHEEL HOUSING, ASSY

020-160A



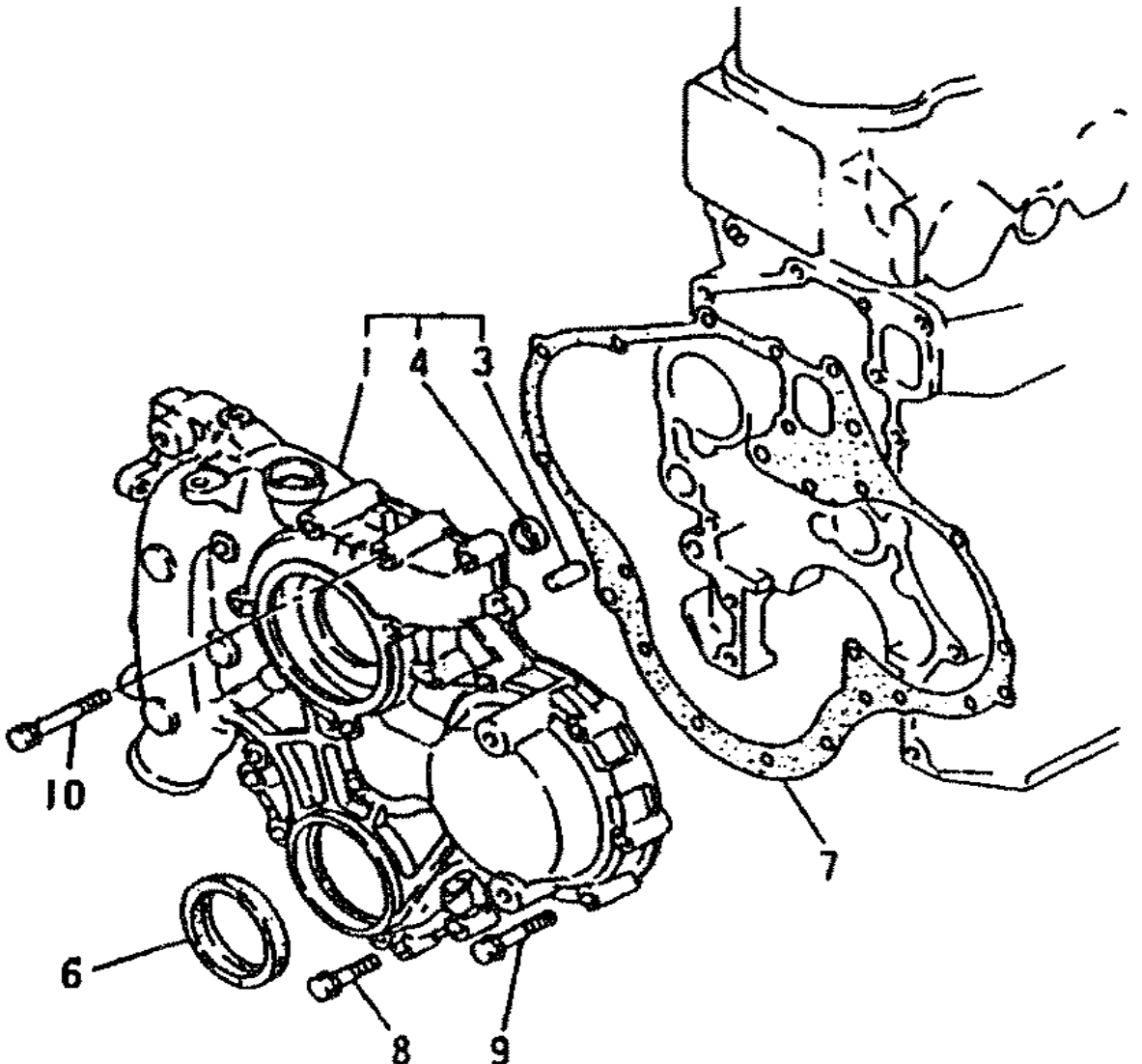
FLYWHEEL HOUSING, ASSY

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1-4	{VAME088381}		1 FLYWHEEL HOUSING ASSY, FOR M6 ONLY
1-4	{VAME088383}		1 FLY SH FLYWHEEL HOUSING ASSY, M16, FOR M5 ONLY
1	NSS		1 NOT SOLD SEPARAT HOUSING,F/W
3	{VAME031063}		1 CONTROL POINTER
4	VAMF200049		1 SCREW SCREW,MACHINE 5X8
5	VAME020359		2 PLUG PLUG, DUST
6	{VAMH000969}		12 BOLT,FLANGE (10X28) BOLT,FLAHGE 10X28
7	VAMH000727		2 BOLT BOLT,FLANGE 12X30

6D31-T-MITSUBISHI DIESEL ENGINE

TIMING, GEAR CASE

020-190A



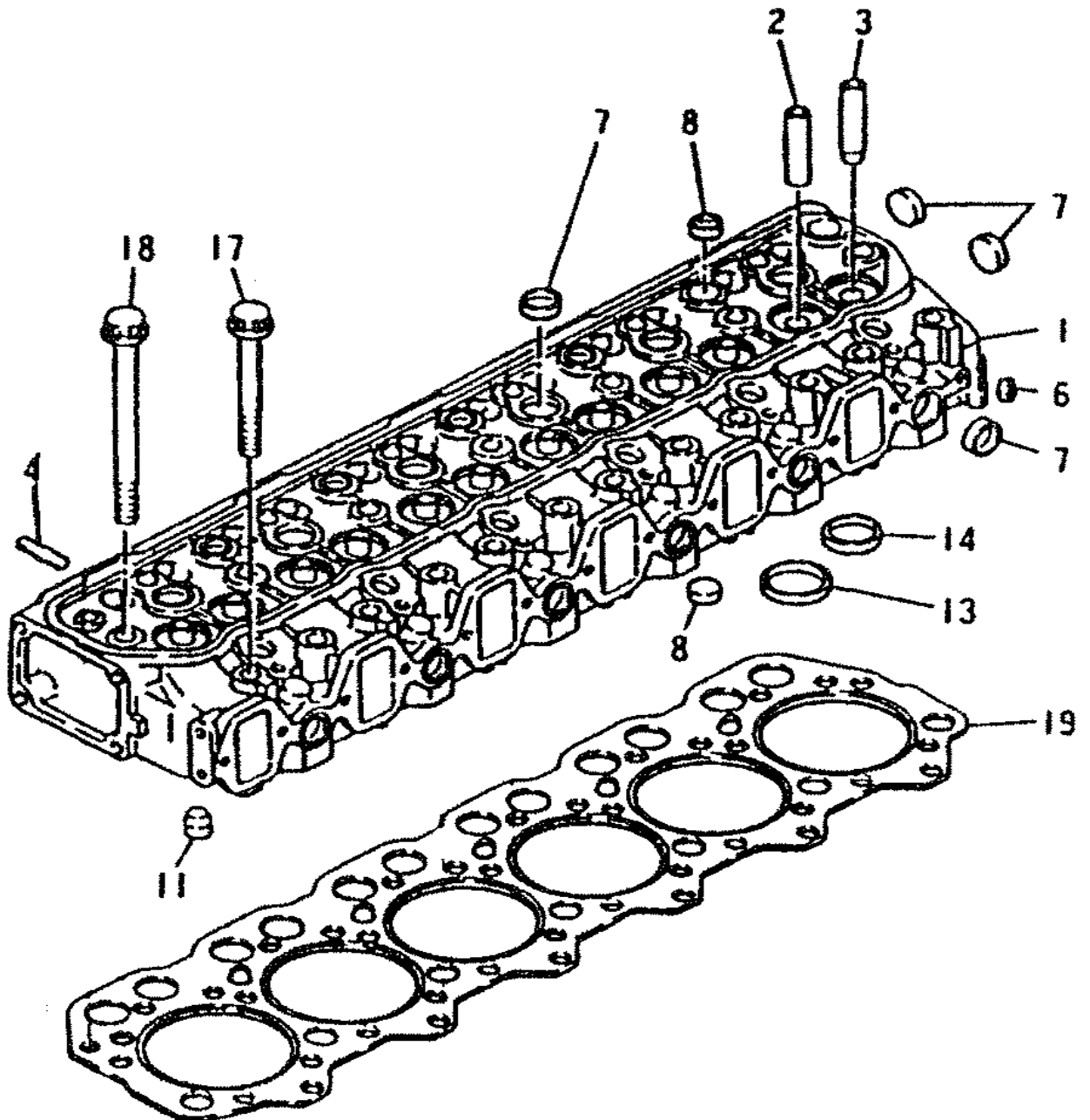
TIMING, GEAR CASE

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1-4	{VAME081555}		1 TIMING GEAR CASE ASSY
1	VAME011655		1 CASE CASE,TIMING GEAR
5	VAMF472406		1 PIN PIN,DOWEL 12
4	VAMS666136		1 PLUG CAP,SEARING 22
6	VAME024156		1 OIL SEAL OILSEAL.FR
7	VAME011770		1 GASKET GASKET GEAR CASE
8	VAMF140233		9 BOLT BOLT,FLANGE 8X40
9	VAMF140235		6 BOLT BOLT,FLANGE 8X50
10	{VAMF140239}		2 BOLT,FLANGE BOLT,FLANGE 8X70

6D31-T-MITSUBISHI DIESEL ENGINE

CYLINDER HEAD

020-200A



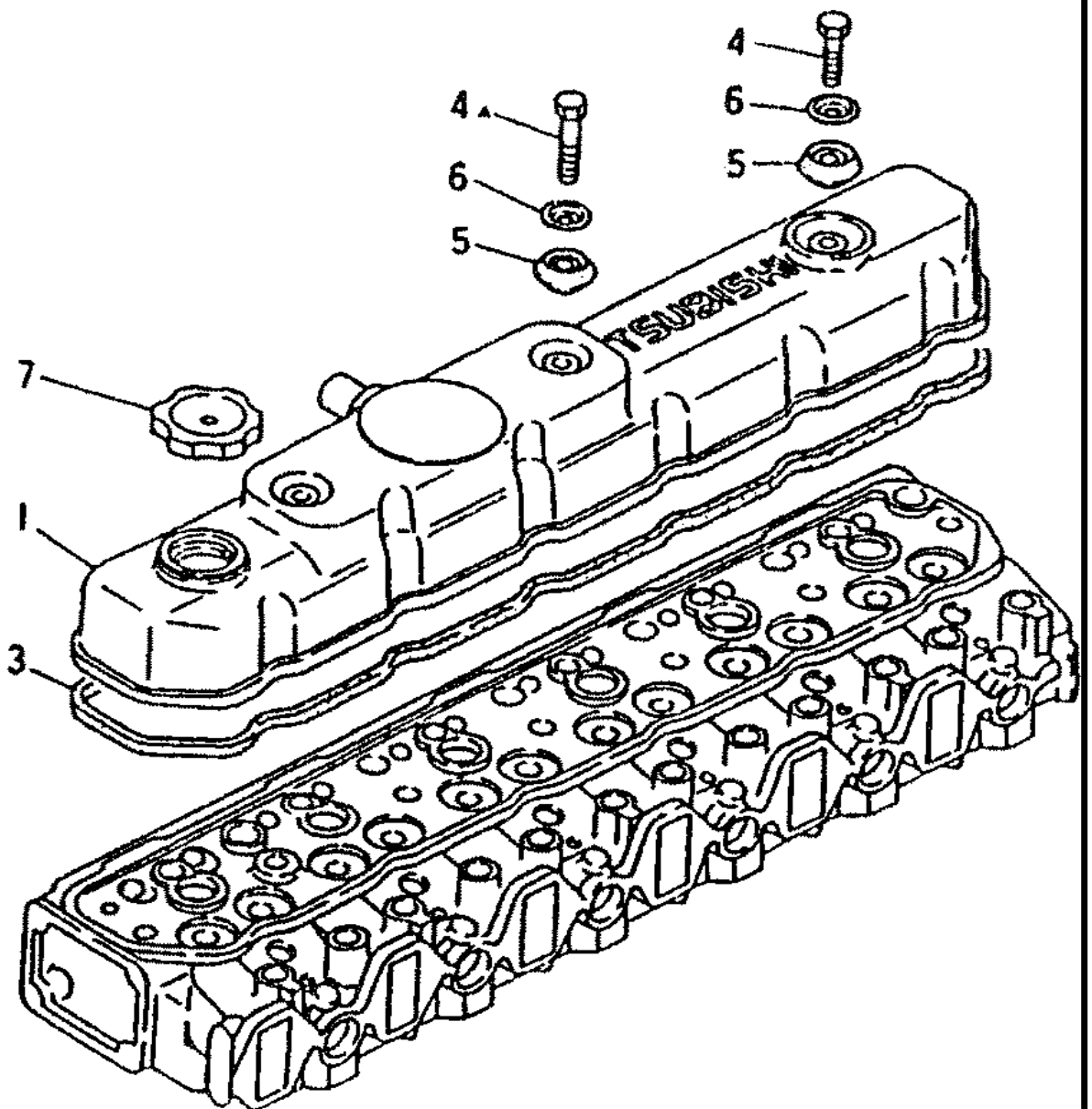
CYLINDER HEAD

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1	NSS		1 NOT SOLD SEPARAT HEAD,CYL
2	VAME031886		6 GUIDE VAIVE INLET
3	VAME031888		6 GUIDE VALVE EXHUST
4	VAMH002174		12 STUD EXHUST MANIFOLD M10x33mm Long
6	VAMS666132		6 CAP SEALING 14
7	VAMS666138		14 CAP SEALING 28
8	VAMS666136		11 PLUG SEALING 22
11	VAME011012		1 GUIDE DIRECTOR
13	VAME011058		6 SEAT, VALVE VALVE SEAT INLET
13	VAME011057		AR INSERT INLET, SEMI-SIZE
14	VAME029004		6 SEAT VALVE SEAT EXH
14	{VAME029005}		AR INSERT VALVE SEAT EXH, SEMI-SIZE
17	VAME011015		18 SCREW CYL HEAD 14X122
18	VAME011016		7 BOLT CYL HEAD 14X180
19	VAME081541		1 CYLINDER HEAD GASKET

6D31-T-MITSUBISHI DIESEL ENGINE

ROCKER COVER

020-210A



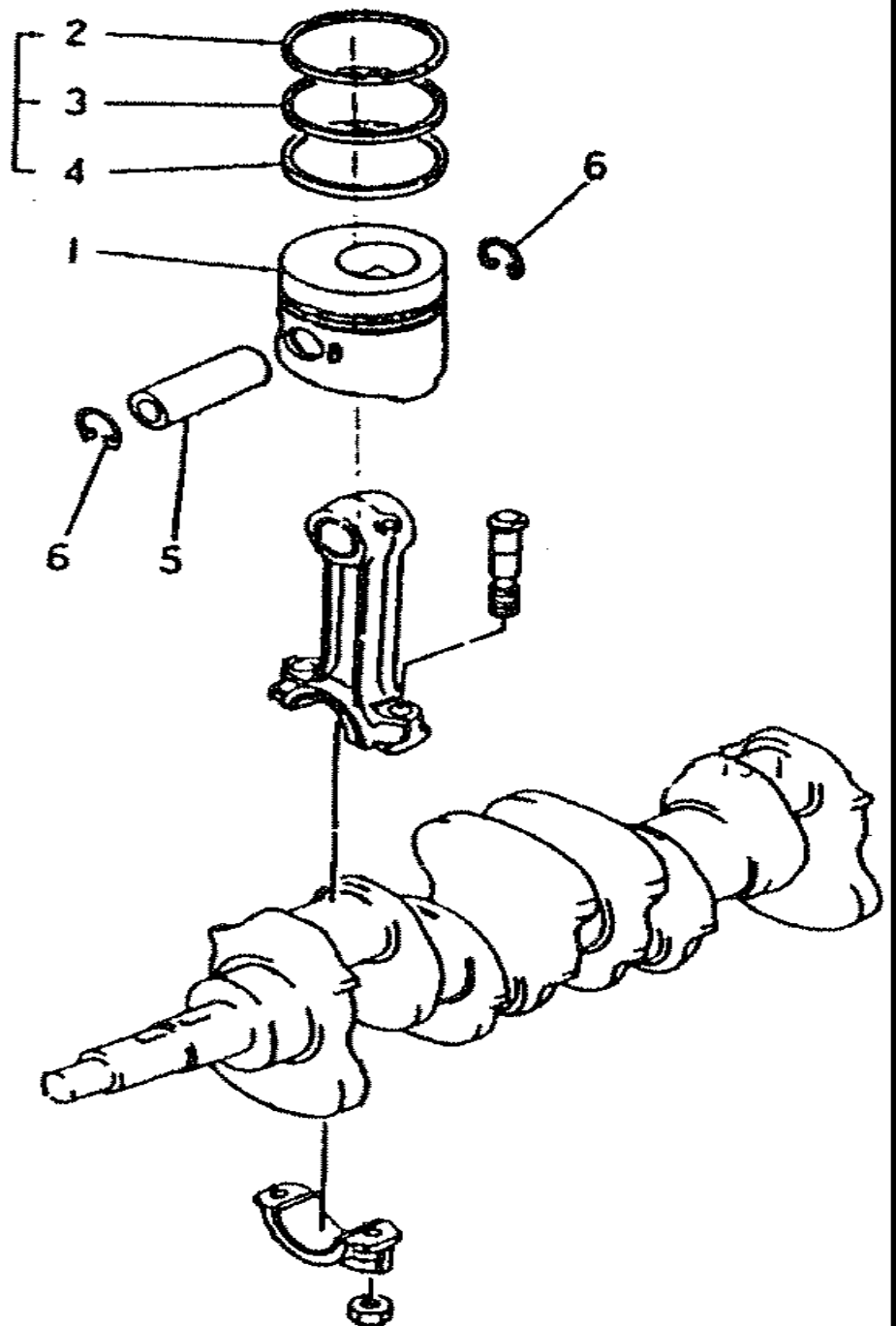
ROCKER COVER

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1	VAME081527		1 COVER COVER,ROCKER
3	VAME081522		1 GASKET GASKET,ROCKER COVER
4	VAMF104864		1 BOLT BOLT 8X45
4A	VAMF104867		2 BOLT BOLT 8X60
5	VAME011282		3 RUBBER SLEEVE ISOLATION,RUBBER
6	VAME011281		3 PLATE PLATE
7	VAMD008784		1 CAP CAP,OIL FILLER

6D31-T-MITSUBISHI DIESEL ENGINE

PISTON

020-250A



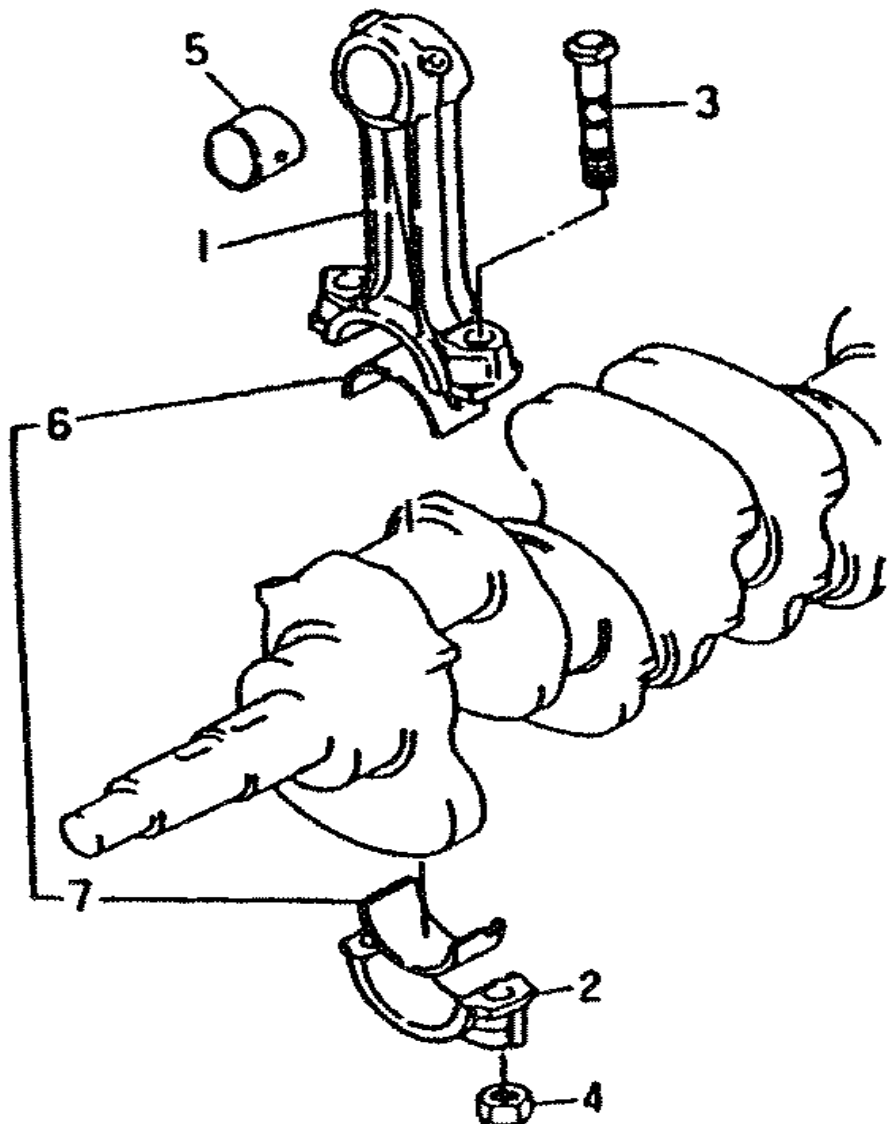
PISTON

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1	VAME012858		6 PISTON PISTON STD
1	VAME012859		AR PISTON PISTON,OS 0.25
1	VAME012860		AR PISTON PISTON,OS 0.50
1	VAME012861		AR PISTON PISTON,OS 0.75
1	{VAME012862}		AR MANIFOLD PISTON,OS 1.00
2-4	VAME999836		1 PISTON RINGS KIT PISTON RING SET,ONE MODEL STD
2-4	VAME999837		AR PISTON RING PISTON RING SET,OS 0.25
2-4	VAME999838		AR PISTON RING PISTON RING SET,OS 0.50
2-4	{VAME999839}		AR PISTON RING SET,OS 0.75
2-4	{VAME999840}		AR RING SET,PISTON PISTON RING SET,OS 1.00
2	NSS		6 NOT SOLD SEPARAT RING,COMPRESSION NO.1 STD
3	NSS		6 NOT SOLD SEPARAT RING,COMPRESSION NO.2 STD
4	NSS		6 NOT SOLD SEPARAT RING,OIL STD
5	VAME012009		6 PISTON PIN PIN,PISTON
6	VAME012061		12 SNAP RING RING,SNAP

6D31-T-MITSUBISHI DIESEL ENGINE

CONNECTING ROD & BEARING

020-260A



CONNECTING ROD & BEARING

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1-5	VAME012265		6 CONN. ROD SHELL CONNECTING ROD ASSY
1	NSS		6 NOT SOLD SEPARAT ROD,CONNECTING
2	NSS		6 NOT SOLD SEPARAT CAP,CONN-ROD
3	VAME012232		12 SPECIAL BOLT BOLT
4	VAME023570		12 NUT NUT
5	VAME012234		6 BUSHING BUSHTNGCONN-ROD
6-7	VAME999726		1 BEARING SET CONN-ROD BEARING SET,ONE MODEL STD
6-7	VAME999727		AR BEARING SET CONN-ROD BEARING SET,OS 0.25
6-7	VAME999728		AR BEARING SET CONN-ROD BEARING SET,US 0.50
6-7	VAME999729		AR BEARING SET CONN-ROD BEARING SET,US 0.75
6-7	VAME999730		AR BEARING SET CONN-ROD BEARING SET,US 1.00
6	NSS		6 NOT SOLD SEPARAT BEARING.CONN-ROD UPPER STD
7	NSS		6 NOT SOLD SEPARAT BEARING,CONN-ROD LOWER STD

6D31-T-MITSUBISHI DIESEL ENGINE

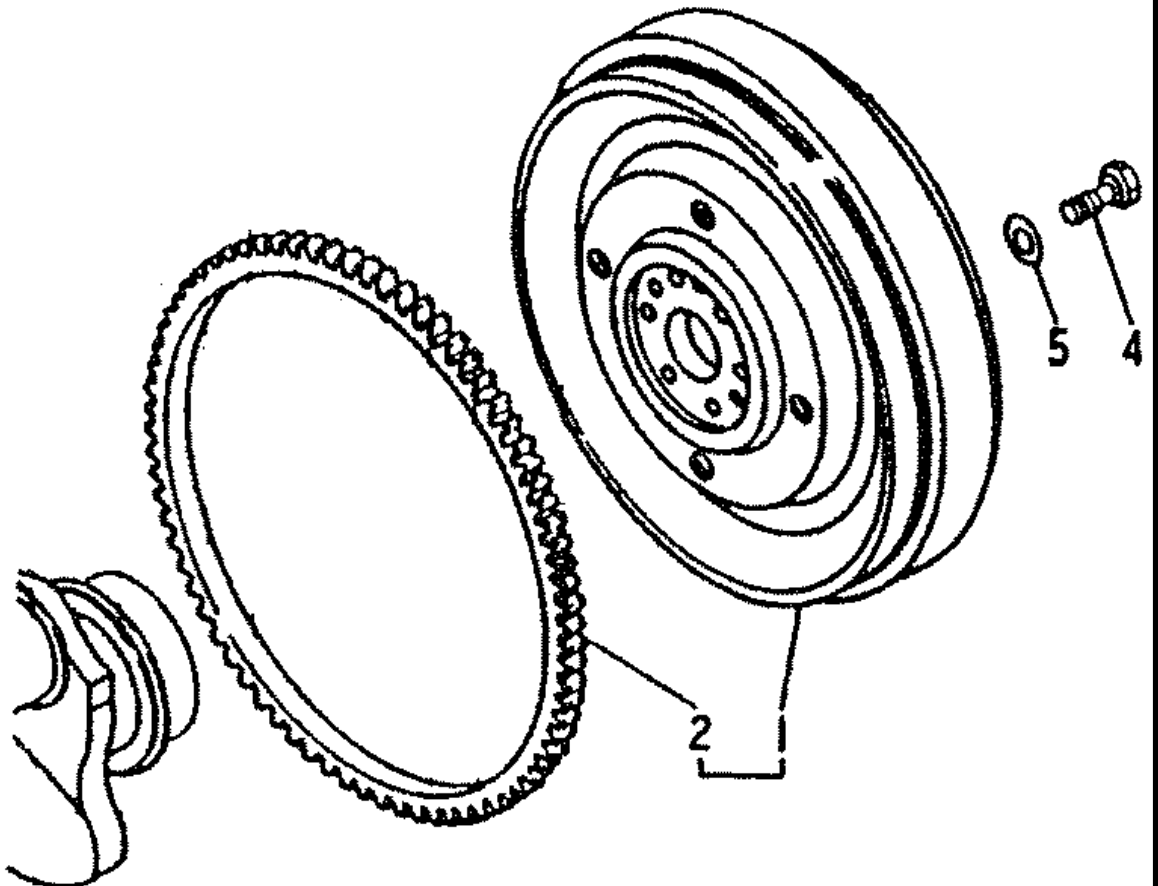
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FLYWHEEL

020-290A



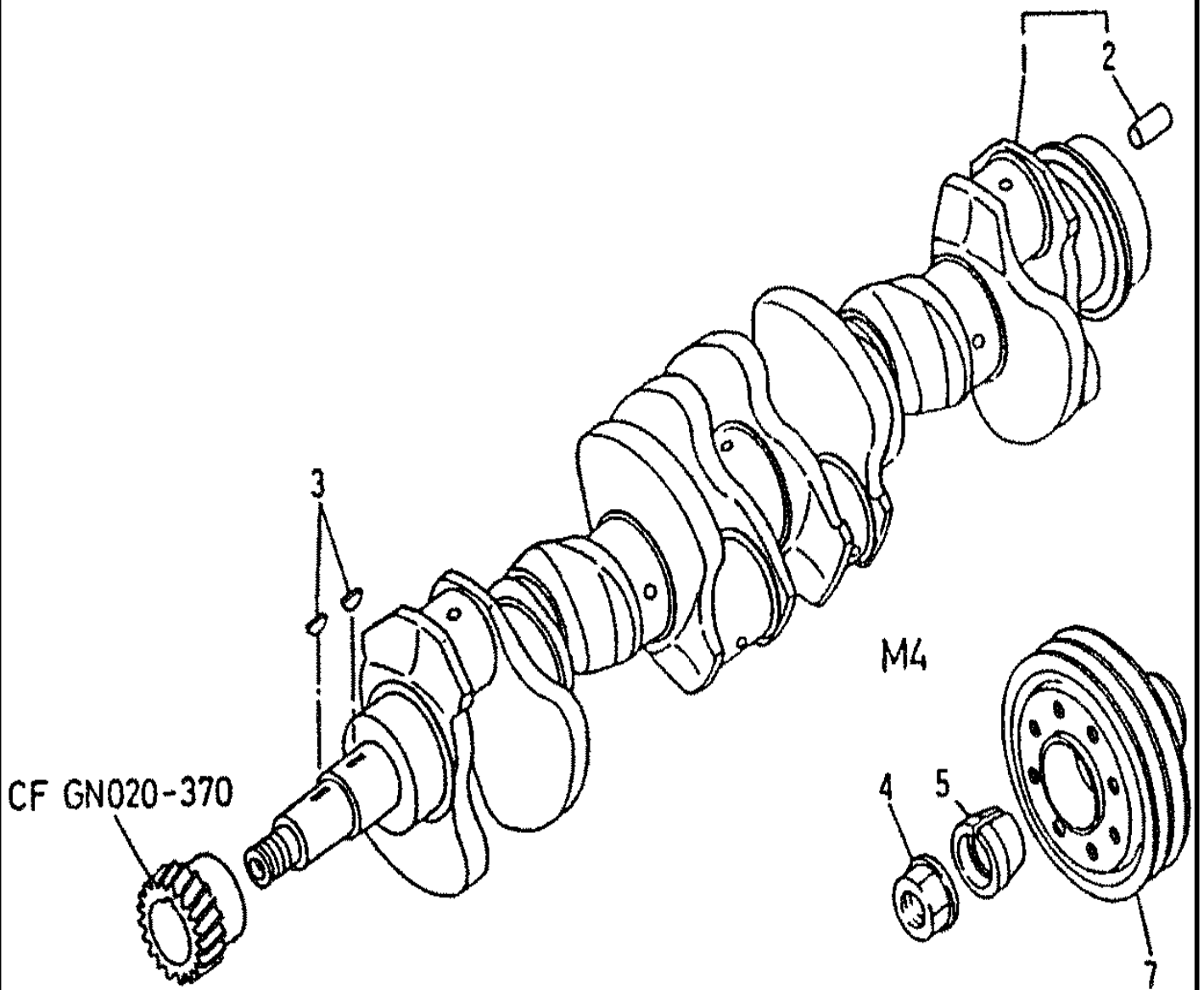
FLYWHEEL

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1-2	VAME088226		1 FLYWHEEL FIYWHEEL ASSY
1	NSS		1 NOT SOLD SEPARAT FLYWHEEL
2	VAME032645		1 RING GEAR GEAR,RING Z=129
4	VAMH000634		6 BOLT BOLT 14X40
5	VAMH005111		6 WASHER WASHER,PLAIN

6D31-T-MITSUBISHI DIESEL ENGINE

CRANKSHAFT & PULLEY

020-300A



CRANKSHAFT & PULLEY

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1-2	VAME082505		1 CRANKSHAFT CRANKSHAFT ASSY
1	NSS		1 NOT SOLD SEPARAT CRANKSHAFT
2	VAMF472407		1 PIN PIN,DOWEL 14
3	VAMS476137		2 WOODRUFF KEY KEY,WOODRUFF 7X22
4	VAMH004045		1 NUT NUT 24
5	VAME023769		1 ROCKER ARM COTTER CONE
7	VAME088287		1 PULLEY PULLEY,CRANKSHAFT D160 AX2

6D31-T-MITSUBISHI DIESEL ENGINE

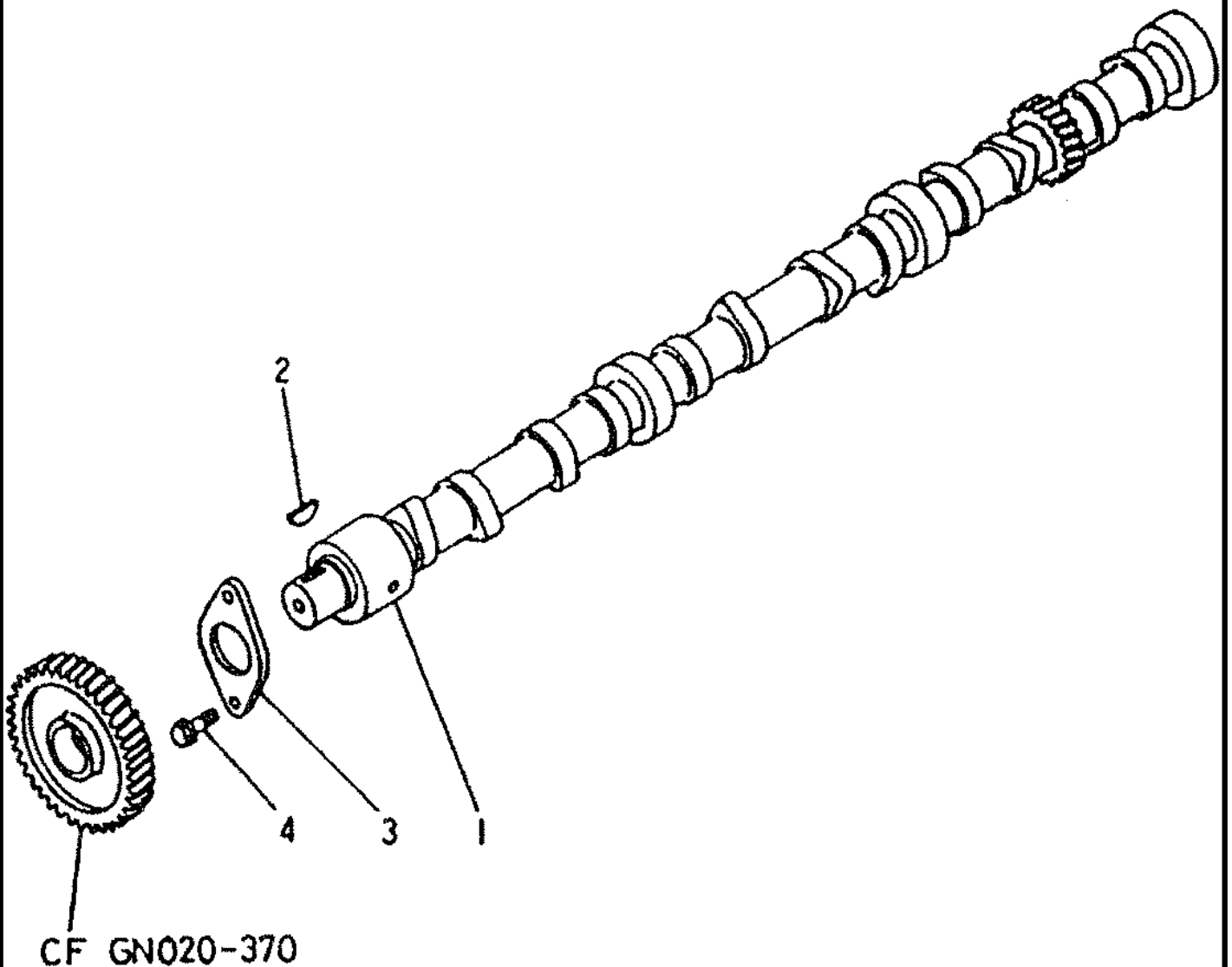
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CAMSHAFT

020-350A



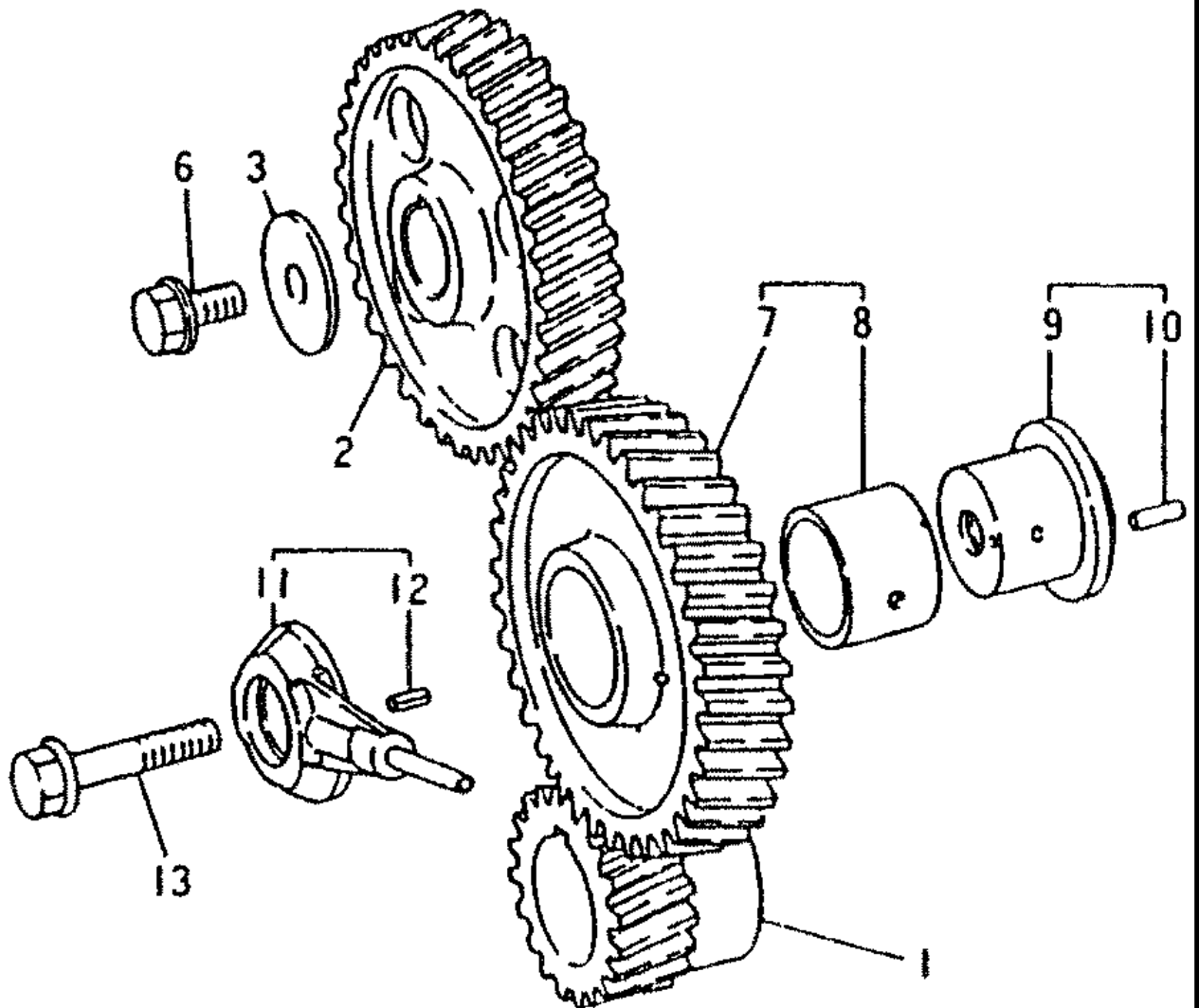
CAMSHAFT

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1	VAME081512		1 CAMSHAFT CAMSHAFT
2	VAMS476139		1 WOODRUFF KEY KEY,WOODRUFF 7X28
3	{VAME029025}		1 PLATE,THRUST PLATE,THRUST
4	VAMF140223		2 BOLT BOLT,FLANGE 8X16

6D31-T-MITSUBISHI DIESEL ENGINE

TIMING GEAR

020-370A



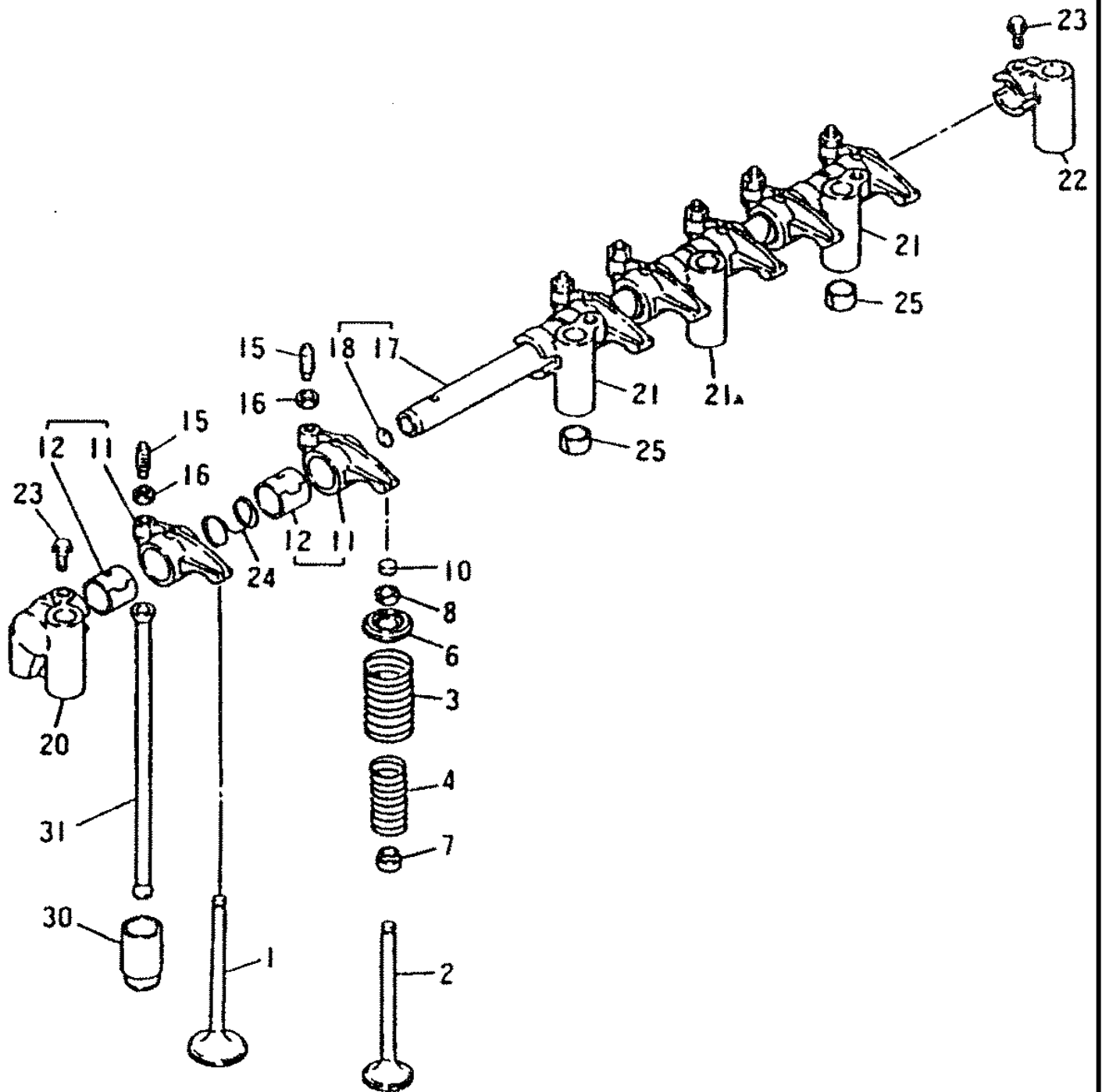
TIMING GEAR

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1	VAME012729		1 GEAR GEAR,CRANKSHAFT Z = 23
2	VAME012732		1 DRIVEN GEAR GEAR,CAMSHAFT Z=46
3	VAMH005020		1 PLATE WASHER 44
6	VAMF140458		1 BOLT BOLT,FLANGE 10X20
7-8	{VAME082515}		1 GEAR ASSY,IDLER IDLER GEAR ASSY
7	NSS		1 NOT SOLD SEPARAT GEAR,IDLER Z=47
8	VAME082517		1 BUSHING BUSHING,IDLER
9-10	VAME082520		1 IDLER IDLER SHAFT ASSY
9	NSS		1 NOT SOLD SEPARAT SHAFT,IDLER
10	VAMF472571		1 PIN FIN,SPG 5X20
11-12	VAME012747		1 JET OIL JET ASSY
11	NSS		1 NOT SOLD SEPARAT JET,OIL
12	VAMH012041		1 PIN PIN,SPG
13	VAMH001411		1 SCREW BOLT,FLANGE 10X68

6D31-T-MITSUBISHI DIESEL ENGINE

VALVE, GEAR TRAIN

020-400A



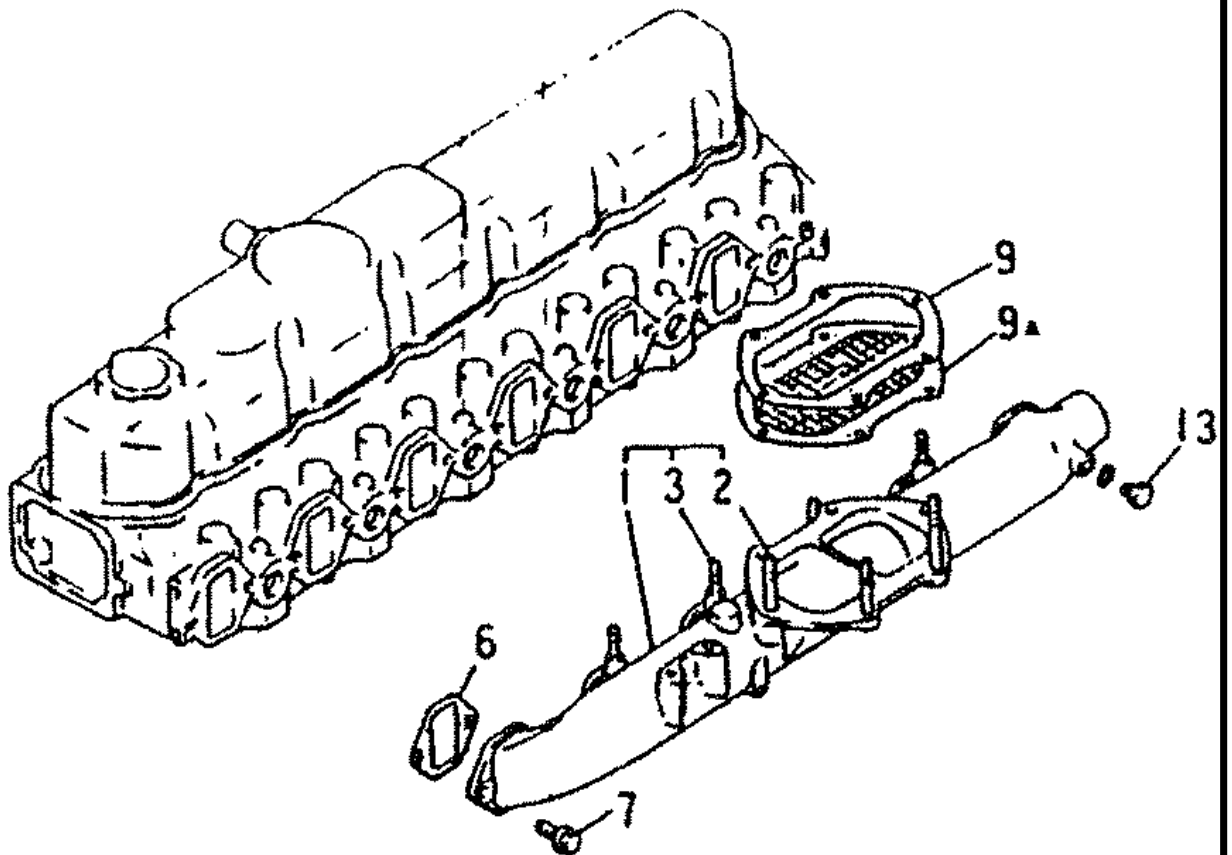
VALVE, GEAR TRAIN

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1	VAME011265		6 VALVE VALVE,INLET
2	VAME011266		6 VALVE VALVE,EXH
3	VAME029101		12 VALVE SPRING SPRING,VALVE OUTER
4	VAME029102		12 VALVE SPRING SPRING,VALVE INNER
6	VAME011268		12 RETAINER RETAINER,UPPER
7	{VAME024108}		12 STEM SEAL SEAL VALVE STEM
8	VAME011227		24 VALVE COTTER,VALVE
10	VAME020244		12 CAP CAP,VALVE
11-12	VAME011292		12 ROCKER ROCKER ASSY
11	NSS		12 NOT SOLD SEPARAT ROCKER
12	VAME011254		12 BUSHING BUSHING,ROCKER
15	VAMH001002		12 SCREW SCREW,ADJUSTING 8X32
16	VAMF430841		12 NUT NUT 8
17-18	VAME081513		1 ROCKER ARM ROCKER SHAFT ASSY
17	NSS		1 NOT SOLD SEPARAT SHAFT ROCKER
18	{VAMS666101}		2 PLUG, EXPANS PLUG,EXPANSION
20	VAME011257		1 BRACKET RRACKET,ROCKER SHAFT,FR
21	VAME011258		3 BRACKET RRACKET,ROCKER SHAFT,2,4,6
21A	VAME011259		2 BRACKET RRACKET,ROCKER SHAFT,3,5
22	VAME011260		1 BRACKET RRACKET,ROCKER SHAFT
23	VAMF140003		2 BOLT BOLT,FLANGE 6X12
24	VAME011261		6 SPRING SPRING.ROCKER SHAFT
25	VAMH007012		3 PIN PIN,SPG 17X10
30	VAME011249		12 TAPPET TAPPET
31	VAME011267		12 PUSH ROD PUSHROD

6D31-T-MITSUBISHI DIESEL ENGINE

INLET MANIFOLD

020-430A



INLET MANIFOLD

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1-3	VAME088255		1 MANIFOLD INLET MANIFOLD ASSY
1	NSS		1 NOT SOLD SEPARAT MANIFOLD.INLET
2	VAMF402574		3 SCREW STUD 8X50
3	{VAMF400657}		4 STUD STUD 6X28
6	VAME013031		6 GASKET GASKET,INLET HANIF
7	VAMF140225		12 BOLT BOLT
9	VAME033679		1 GASKET GASKET
9A	VAME033848		1 GASKET GASKET W/NET
13	VAME031088		1 PLUG SCREW,SET
	VAMF660063		1 GASKET GASKET 10

6D31-T-MITSUBISHI DIESEL ENGINE

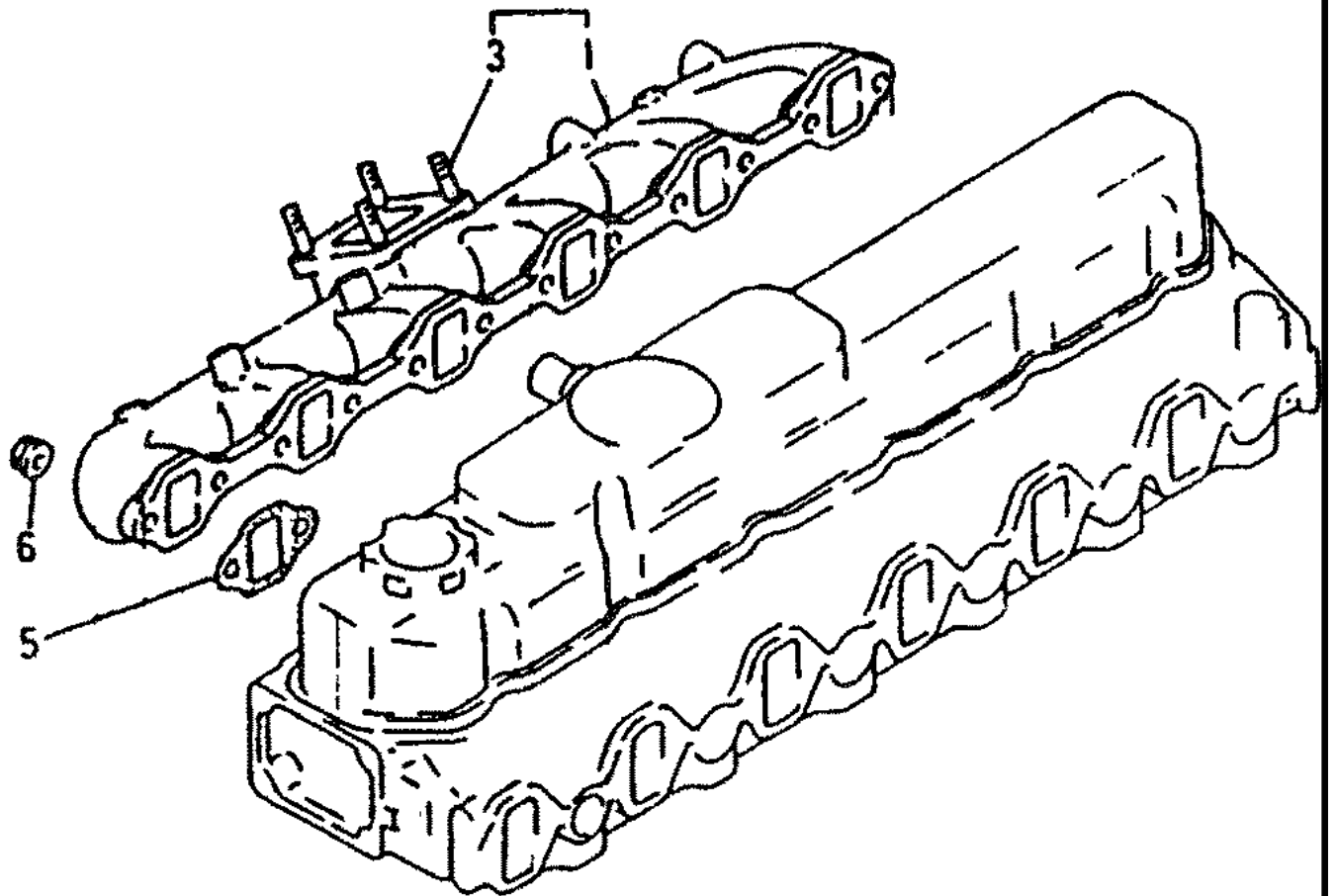
01-016

p1

8/2016

EXHAUST MANIFOLD

020-440A



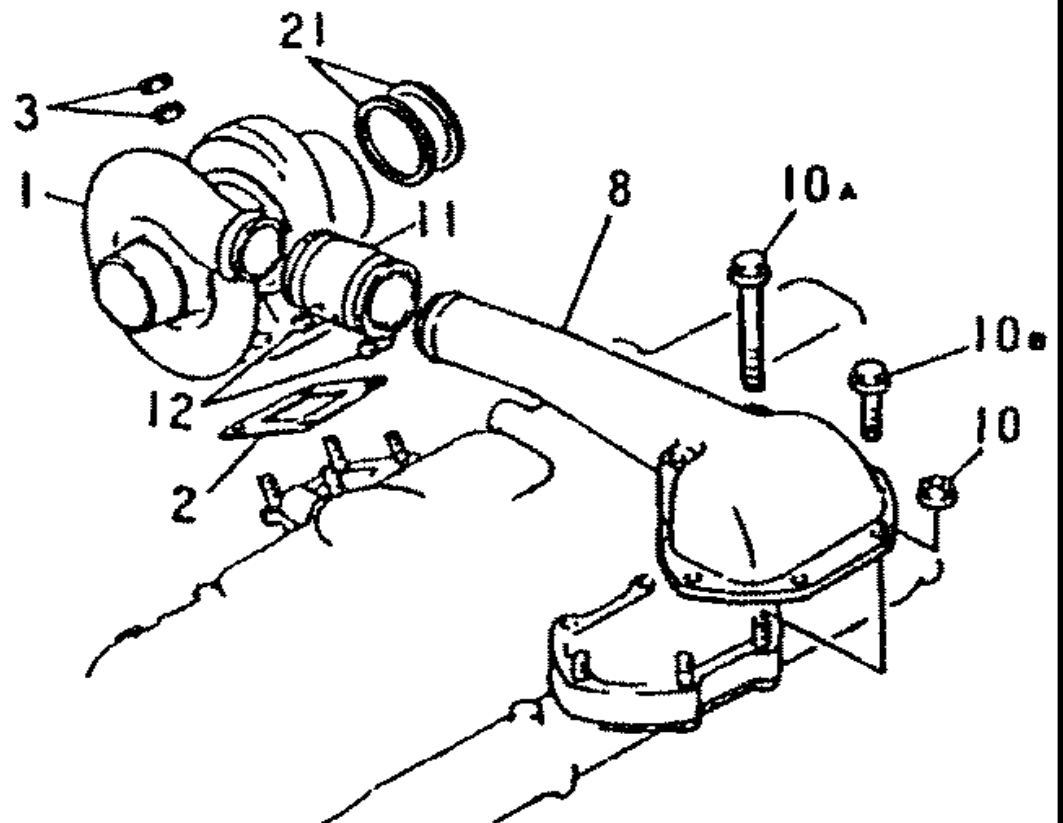
EXHAUST MANIFOLD

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1-3	VAME088311		1 INLET MANIFOLD EXHAUST MANIFOLD ASSY
1	NSS		1 NOT SOLD SEPARAT MANIFOLD,EXH
3	VAMF407728		4 STUD STUD 10X30
5	VAME013536		6 GASKET GASKET,EXH MANIF
6	VAMH004054		12 NUT FLANGE 10

6D31-T-MITSUBISHI DIESEL ENGINE

TURBO-CHARGER GENERAL

020-450A



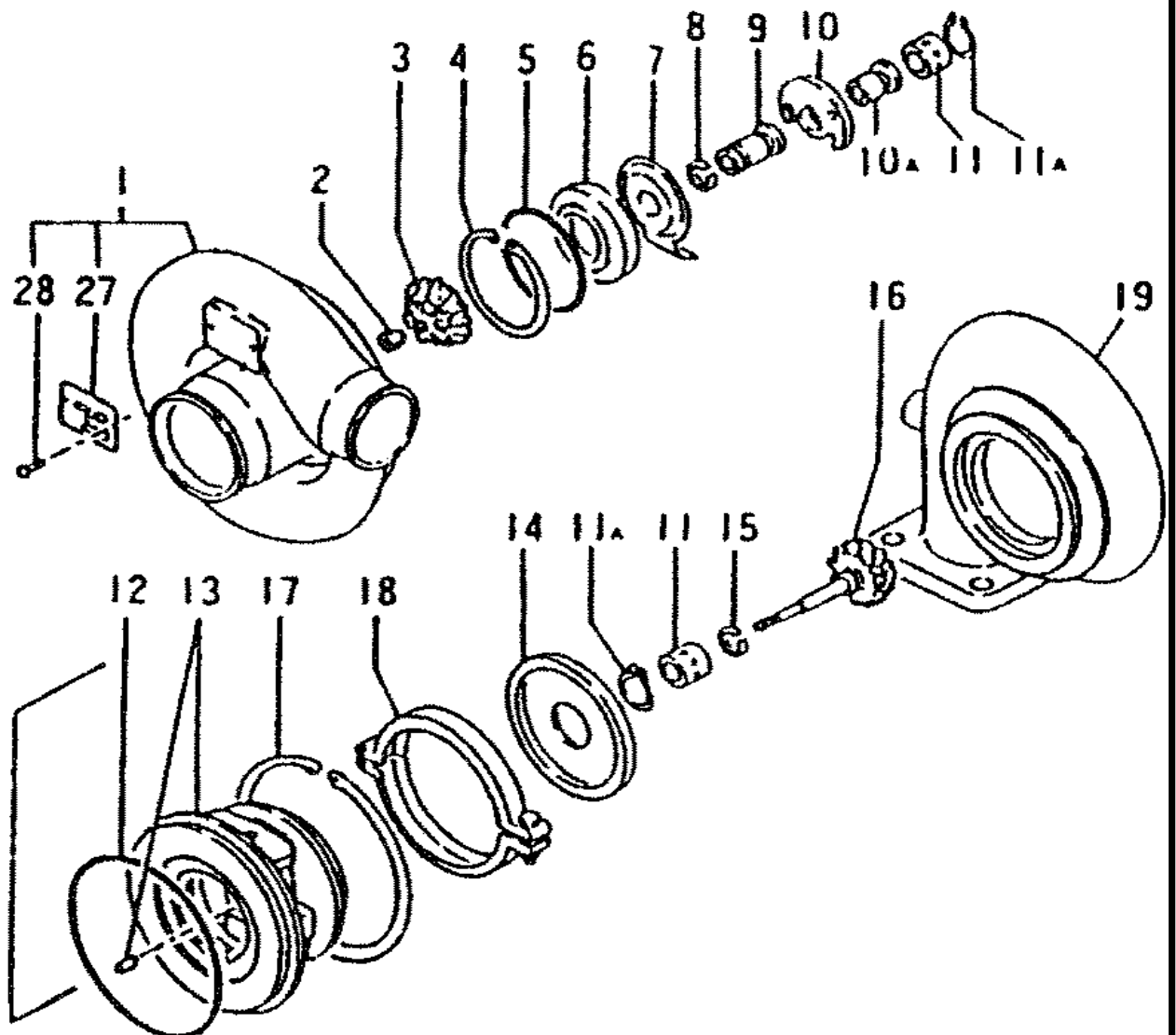
TURBO-CHARGER GENERAL

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1	VAME088256		1 TURBOCHARGER TURBOCHARGER ASSY TD06 -17C
2	VAME083528		1 GASKET GASKET
3	VAMH004110		8 NUT NUT 10
8	VAME088252		1 PIPE PIPE,AIR INLET
10	VAMF434104		3 NUT NUT,FLANGE 8
10A	VAMH000820		2 BOLT BOLT,FLANGE 8X105
10B	VAMF243663		1 BOLT BOLT,W / WSR 8X60
11	VAME053453		1 HOSE HOSE,RUBBER L=65
12	VAMH021321		2 CLAMP CLAMP,BAND
21	VAME013710		2 SEAL RETAINER RING,SEAL

6D31-T-MITSUBISHI DIESEL ENGINE

TURBO-CHARGER (INNER PARTS)

020-451A



TURBO-CHARGER (INNER PARTS)

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1-28	VAME088256		1 TURBOCHARGER TURBOCHARGER ASSY TD06-17C
1	{VAME719936}		1 COVER COMPR COVER,COMPR
2	VAME719621		1 LOCK NUT NUT,LOCK
3	VAME719914		1 TURBINE WHEEL,COMPR
4	VAME719585		1 SNAP RING RING,SNAP
5	VAME719590		1 O-RING O-RING 50
6	VAME719583		1 INSERT INSERT
7	VAME719582		1 DEFLECTOR DEFLECTOR,OIL
8	VAME719780		1 PISTON RING RING,PISTON
9	VAME719910		1 SLEEVE SLEEVE,THRUST
10	VAME719902		1 THRUST BEARING BEARING,THRUST
10A	VAME719912		1 THRUST RING RING,THRUST
11	{VAME719900}		2 BEARING BEARING
11A	VAME719904		2 SNAP RING RING,SNAP
12	VAME719627		1 O-RING O-RING 100
13	VAME719921		1 BEARING BEARING HOUSING & PIN ASSY
14	{VAME719575}		1 PLATE PLATE,TURBINE BACK
15	VAME719906		1 PISTON RING RING,PISTON
16	VAME719924		1 SHAFT SHAFT TURBINE WHEEL ASSY
17	VAME719584		1 SNAP RING RING,SNAP
18	VAME719570		1 COUPLING COUPLING ASSY
19	{VAME719520}		1 HOUSING TURBINE HOUSING,TURBINE
27	{VAME719524}		1 PLATE, NAME
28	{VAME719761}		2 RIVET,SCREW 2X4.8

6D31-T-MITSUBISHI DIESEL ENGINE

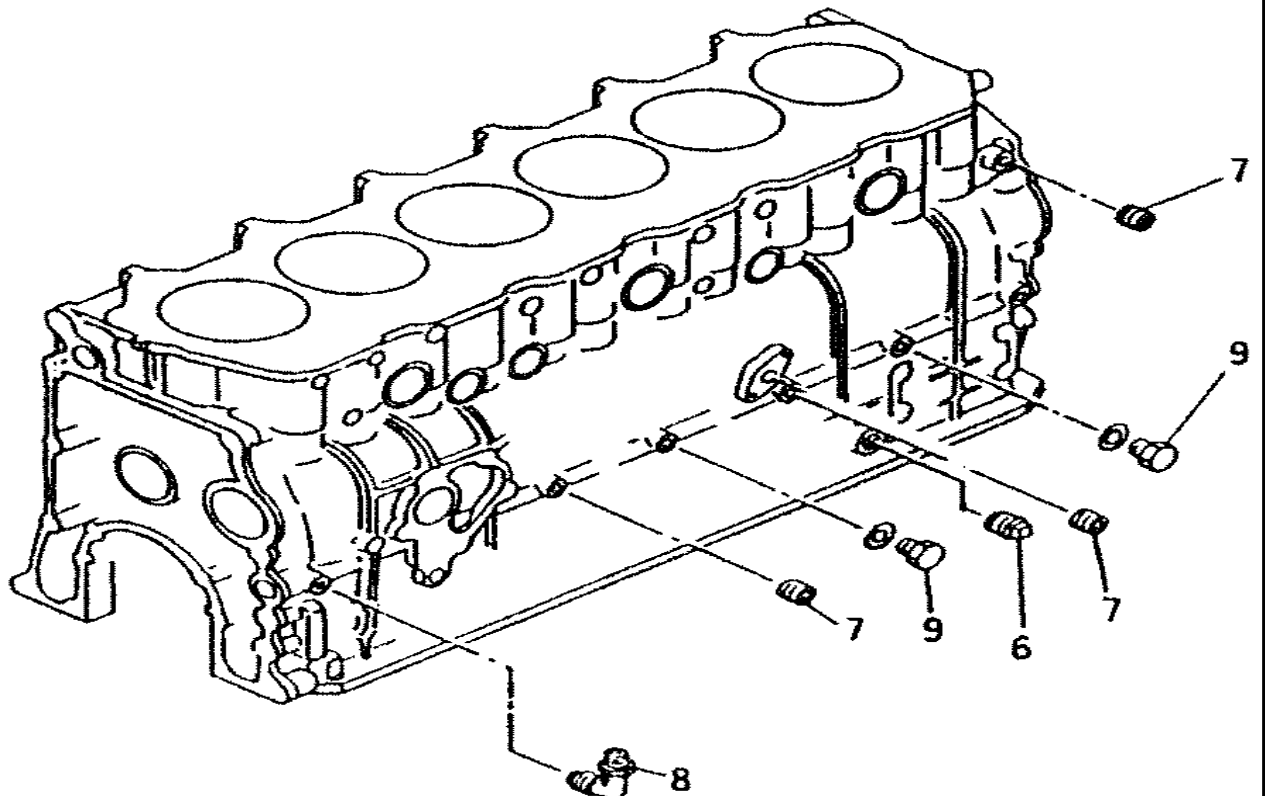
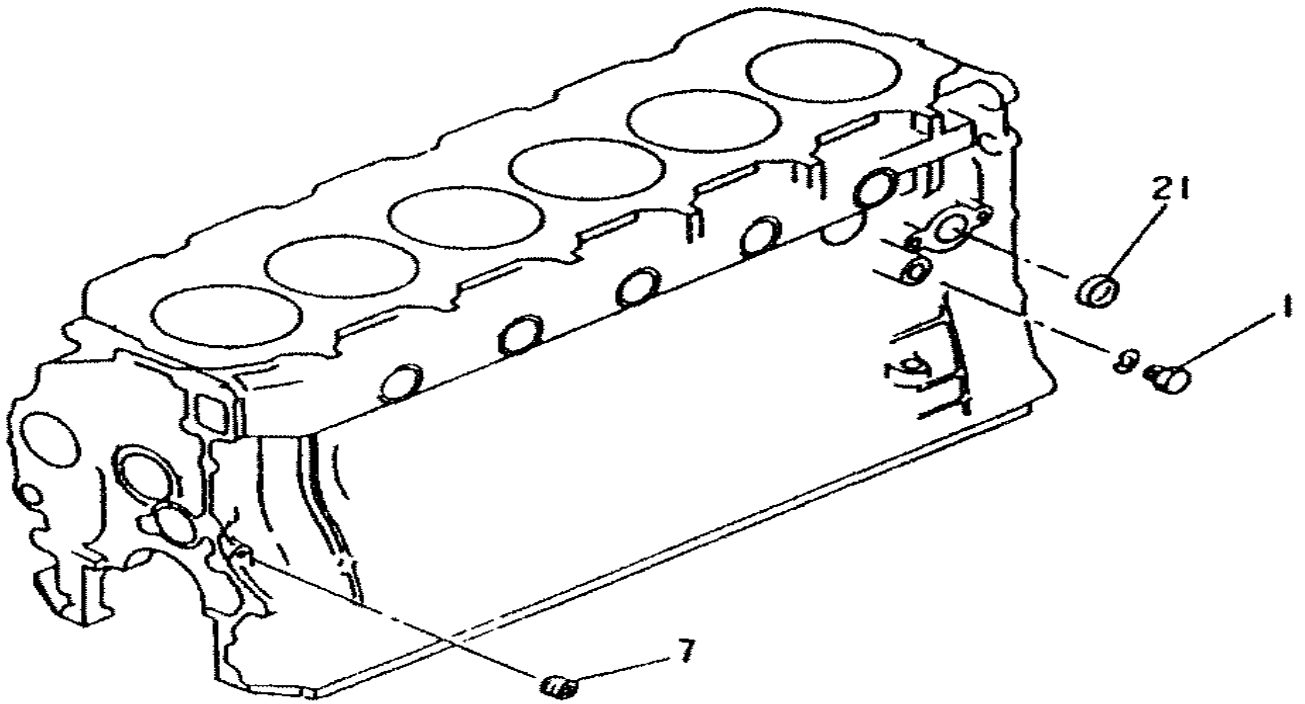
01-019

p1

8/2016

ENGINE ATTACHING PARTS

020-460A



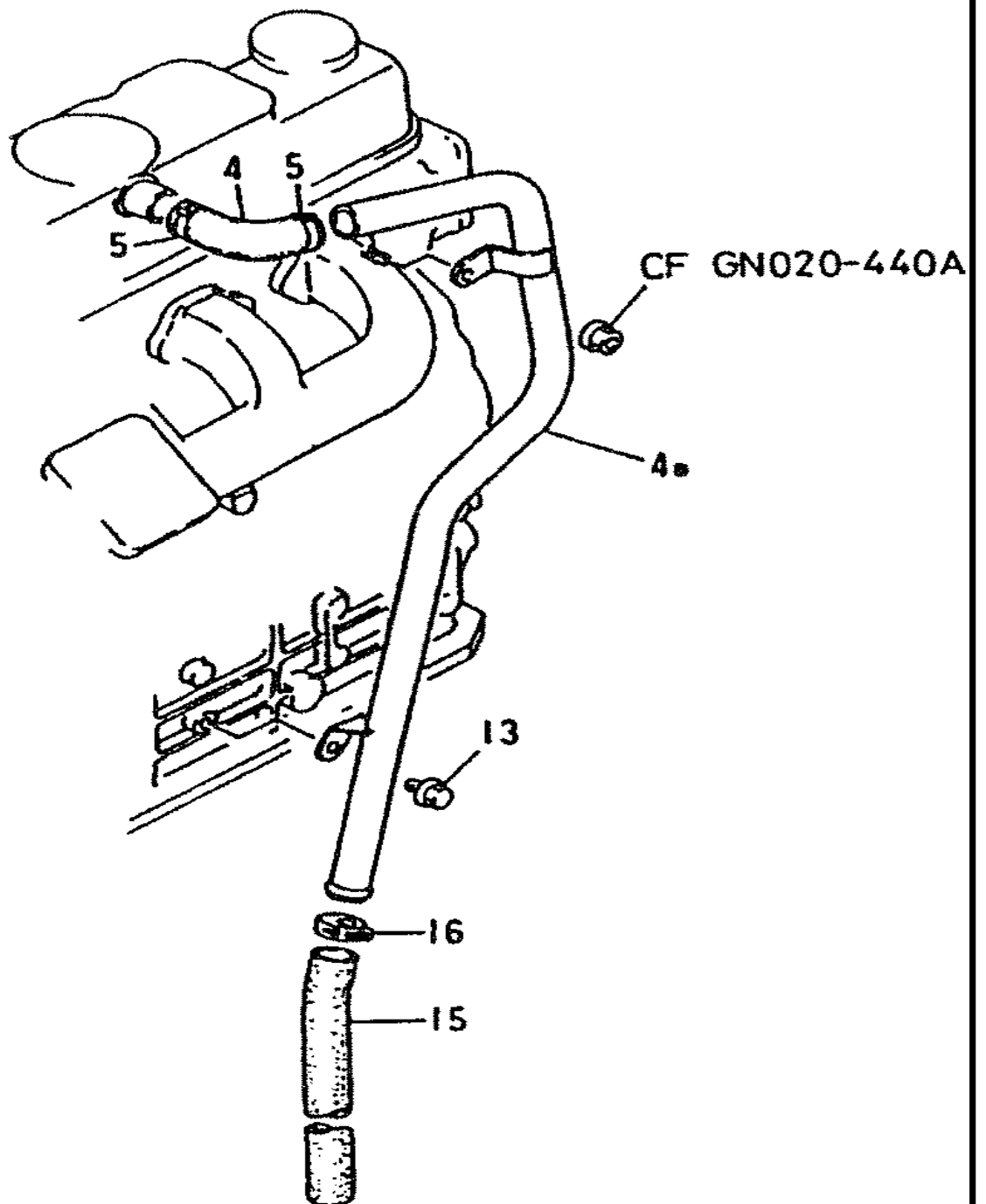
ENGINE ATTACHING PARTS

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1	{VAMH037720}		1 PLUG DRAIN PLUG,DRAIN 20
	VAMF660068		1 PACKING GASKET 20
6	VAMS666222		1 PLUG PLUG,TAPER PT3/8
7	VAMH037237		4 PLUG PLUG,TAPER PT1/8
8	VA3123353700		1 ELBOW ELBOW
9	VAME031088		2 PLUG PLUG
	VAMF660063		2 GASKET GASKET 10
21	VAMF665540		1 CAP CAP,SEALING 30

6D31-T-MITSUBISHI DIESEL ENGINE

BREATHER & OIL FILLER

020-480A



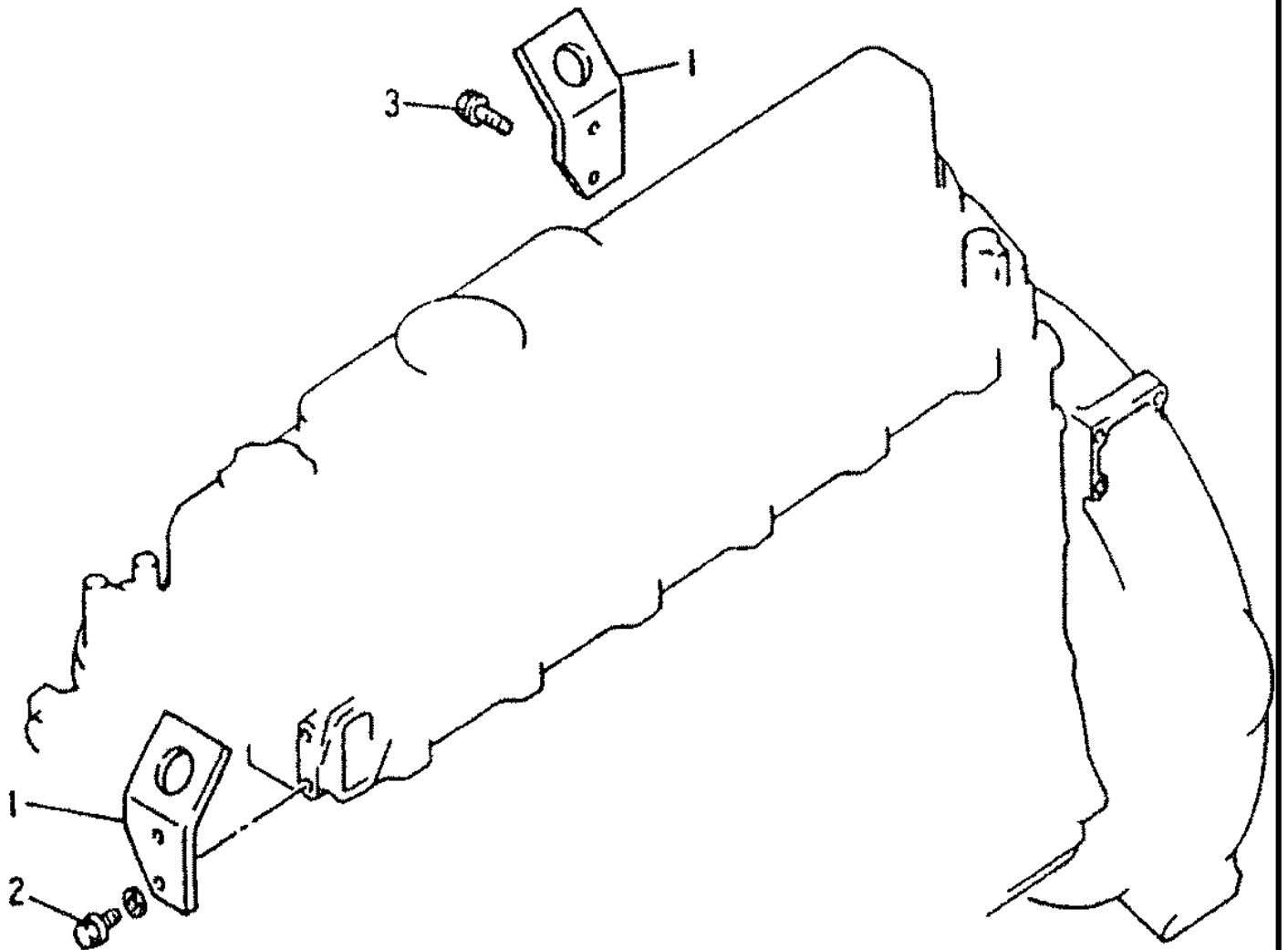
BREATHER & OIL FILLER

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
4	VAME088117		1 BREATHER HOSE,BREATHER
4B	VAME081547		1 PIPE PIPE,BREATHER
5	VAMS660170		2 HOSE CLIP CLIP,HOSE, 26
13	VAMH000706		1 SCREW BOLT,FLANGE 10 X16
15	VAME011913		1 HOSE HOSE,BREATHER L=4 00
16	VAMS660170		1 HOSE CLIP CLIP HOSE, 26

6D31-T-MITSUBISHI DIESEL ENGINE

ENGINE HANGER

020-490A



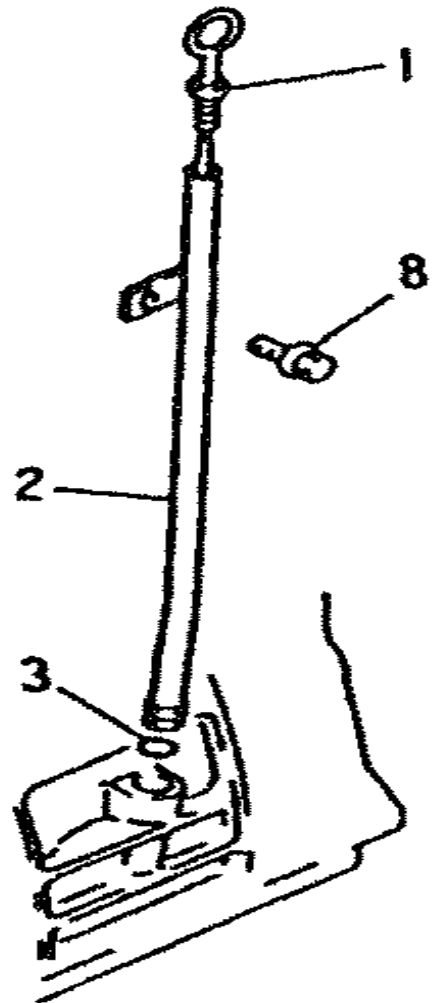
ENGINE HANGER

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1	VAME019926		2 PLATE PLATE,HANGER
2	VAMF140225		2 BOLT BOLT,FLANGE 8X20
	{VAMF450154}		2 WASHER WASHER,PLAIN 8
3	VAMH000713		2 BOLT BOLT,FLANGE 10X20

6D31-T-MITSUBISHI DIESEL ENGINE

OIL FILLER & LEVEL GAUGE

020-510A



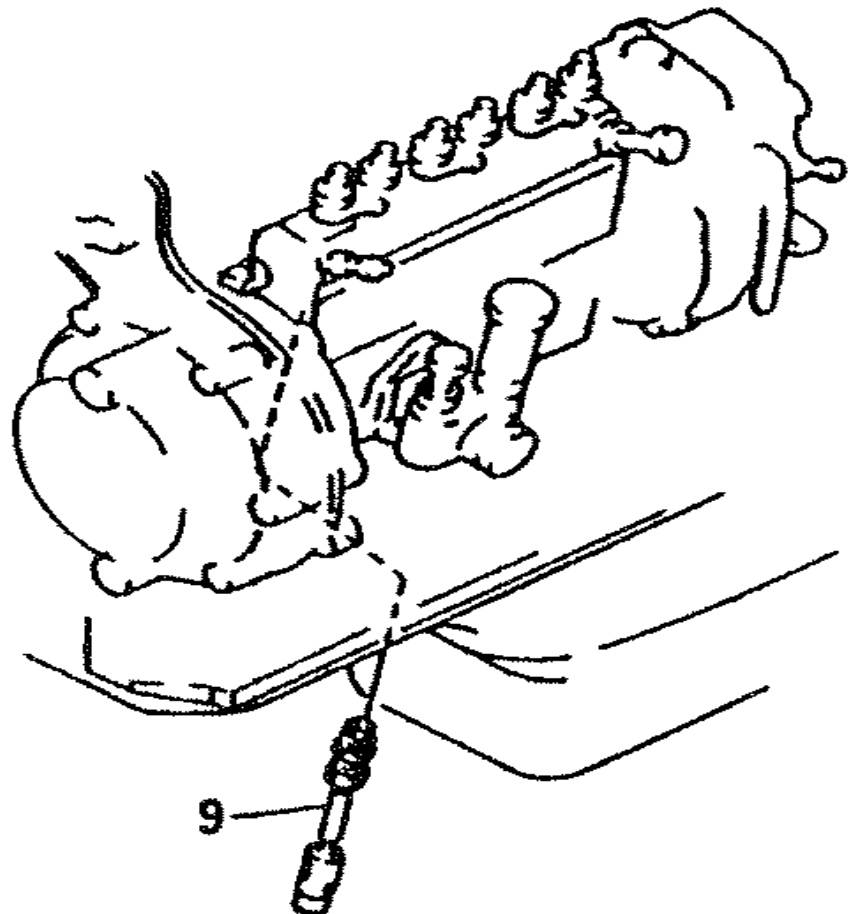
OIL FILLER & LEVEL GAUGE

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1	VAME004139		1 LEVEL GAUGE GAUGE,OIL LEVEL 1=550
2	VAME088150		1 GUIDE GUIDE,OIL LEVEL GAUGE
3	VAMF520007		1 O-RING O-RING 11
8	VAMH000999		1 BOLT BOLT,FLANGE 6X12
9	VAMC845235		1 SENDER UNIT SENSOR,SPEED

6D31-T-MITSUBISHI DIESEL ENGINE

TACHOMETER GEAR

020-610A



01-023

p1

8/2016

TACHOMETER GEAR

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
9	VAMC845235		1 SENDER UNIT SPEED

6D31-T-MITSUBISHI DIESEL ENGINE

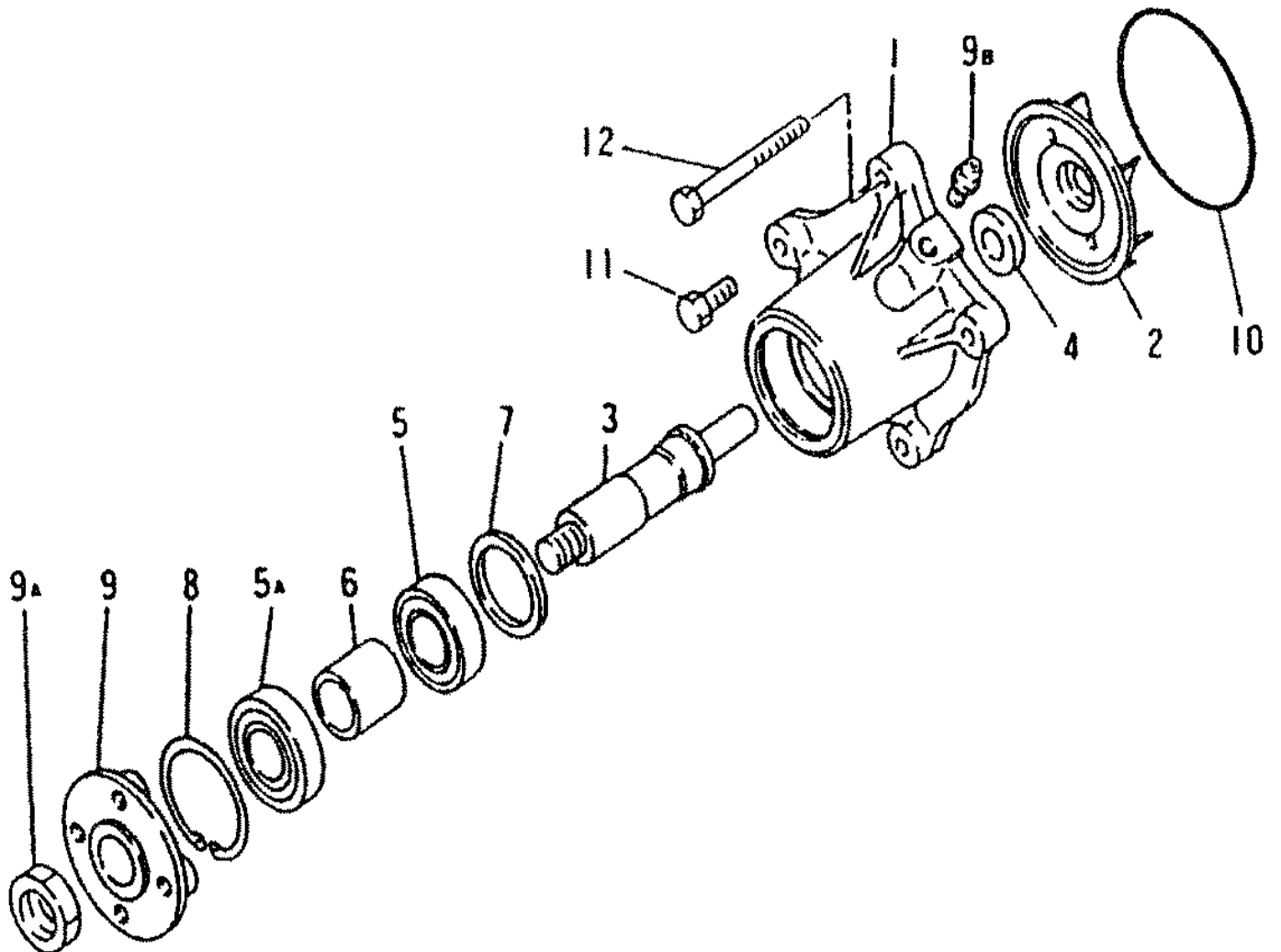
SECTION INDEX

Cooling & Oil System

02-001	WATER PUMP
02-002	WATER PIPE & THERMOSTAT
02-003	WATER TEMP GAUGE UNIT
02-004	FAN & PULLEY
02-005	OIL PUMP & GEAR TRAIN
02-006	OIL FILTER
02-007	OIL STRAINER
02-008	OIL PRESS SW & GAUGE UNIT
02-009	OIL LINE
02-010	OIL COOLER

WATER PUMP

030-110A



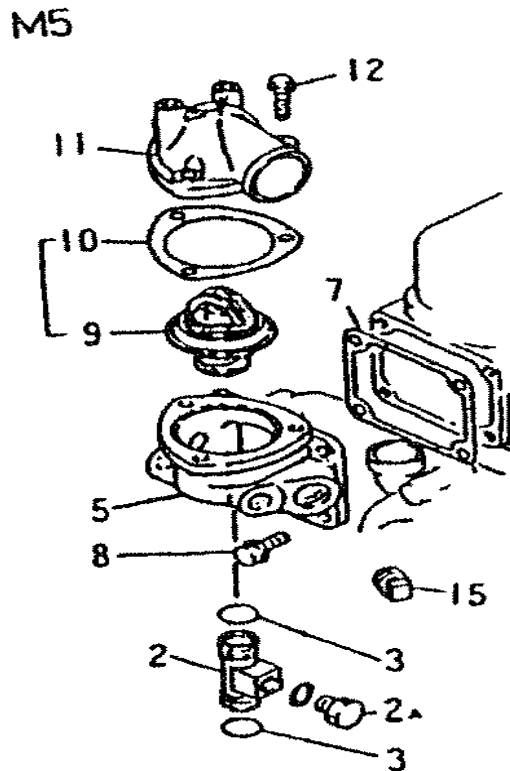
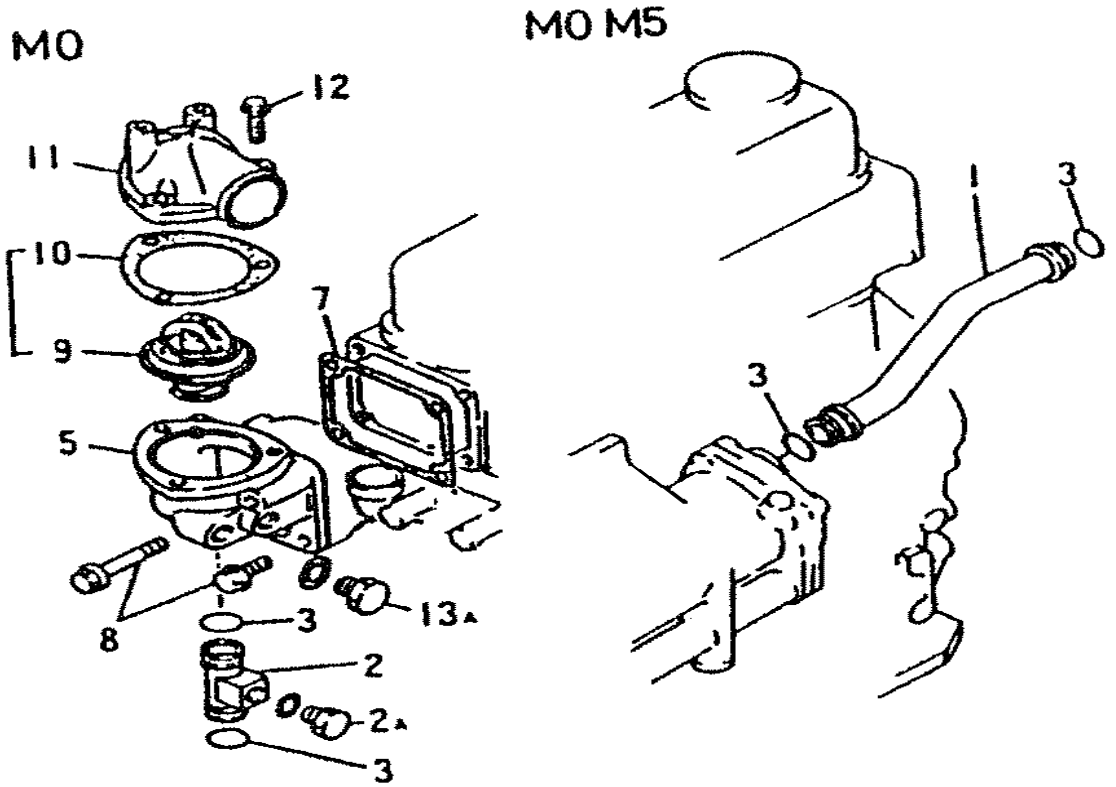
WATER PUMP

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1-9B	VAME088301		1 WATER PUMP WATER PUMP ASSY
1	{VAME088302}		1 CASE.WATER PUMP
2-	VAME999619		1 KIT, ENGINE TOP GASK WATER PUMP REPAIR KIT
2	VAME018095		1 IMPELLER IMPELLER
3	VAME080033		1 SHAFT SHAFT,PUMP
4	VAMH034026		1 SEAL SEAL.UNT
5	VAMS556065		1 BEARING BEARING,BALL
5A	VAMS556185		1 BEARING BEARING,BALL
6	VAME920030		1 SPACER SPACER
7	VA3114502900		1 WASHER
8	VAMF522236		1 SNAP RING RING,SNAP 62
9	VAME039863		1 FLANGE FLANGE
9A	VAMF430732		1 NUT NUT 22
9B	VAMF524002		1 LUBE NIPPLE GREASE
10	VAMF520416		1 O-RING O-RING 100
11	VAMF140229		2 BOLT BOLT,FLANGE 8X30
12	VAMF140244		2 BOLT BOLT,FLANGE 8X90

6D31-T-MITSUBISHI DIESEL ENGINE

WATER PIPE & THERMOSTAT

030-120A



WATER PIPE & THERMOSTAT

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1	VAME085512		1 RIGID TUBE PIPE,WATER
2	VAME080071		1 PIPE PIPE,BY-PASS
2A	VAM0001300		1 PLUG PLUG
	VAMF660066		1 GASKET GASKET 16
3	VAMF520016		4 O-RING O-RING 22.1
5	VAME080107		1 CASE CASE THERMOSTAT
5	VAME080296		AR CASE CASE THERMOSTAT
7	VAME015420		1 GASKET GASKET,THERMOSTAT
8	VAMH000714		2 BOLT BOLT,FLANGE 10X25
8	VAMH000712		2 SCREW BOLT,FLANGE 10X65
8	VAMH000714		AR BOLT BOLT,FLANGE 10X25
9-10	VAME999516		1 SENSOR THERMOSTAT KIT 76.5°C
9	VAME015380		1 SENSOR THERMOSTAT 76.5°C
10	VAME015421		1 GASKET GASKET
11	VAME015429		1 COVER COVER,THERMOSTAT
12	VAMF140229		3 BOLT BOLT,FLANGE 8X30
13A	VAM0001300		1 PLUG PLUG
	VAMF660066		1 GASKET GASKET 16
15	VAMS666224		AR PLUG PLUG,TAPER PT3/4

6D31-T-MITSUBISHI DIESEL ENGINE

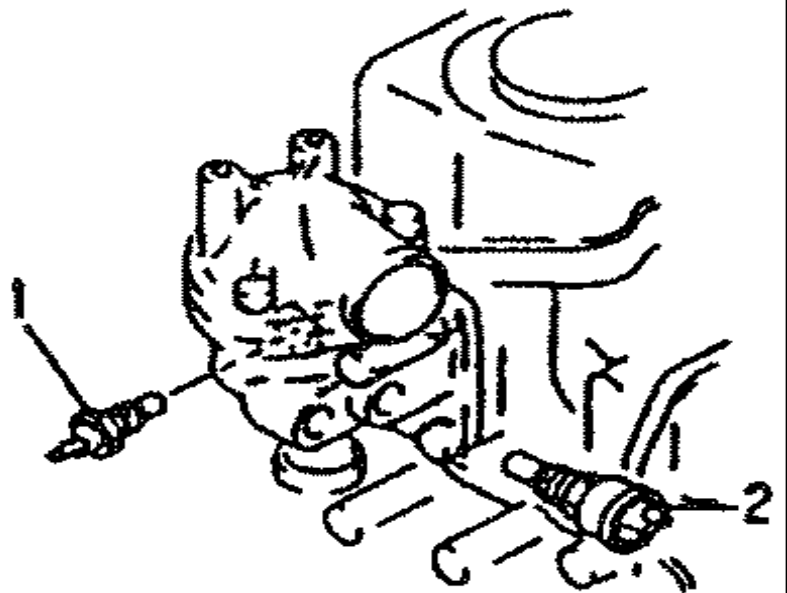
02-003

p1

8/2016

WATER TEMP GAUGE UNIT

030-160A



02-003

p1

8/2016

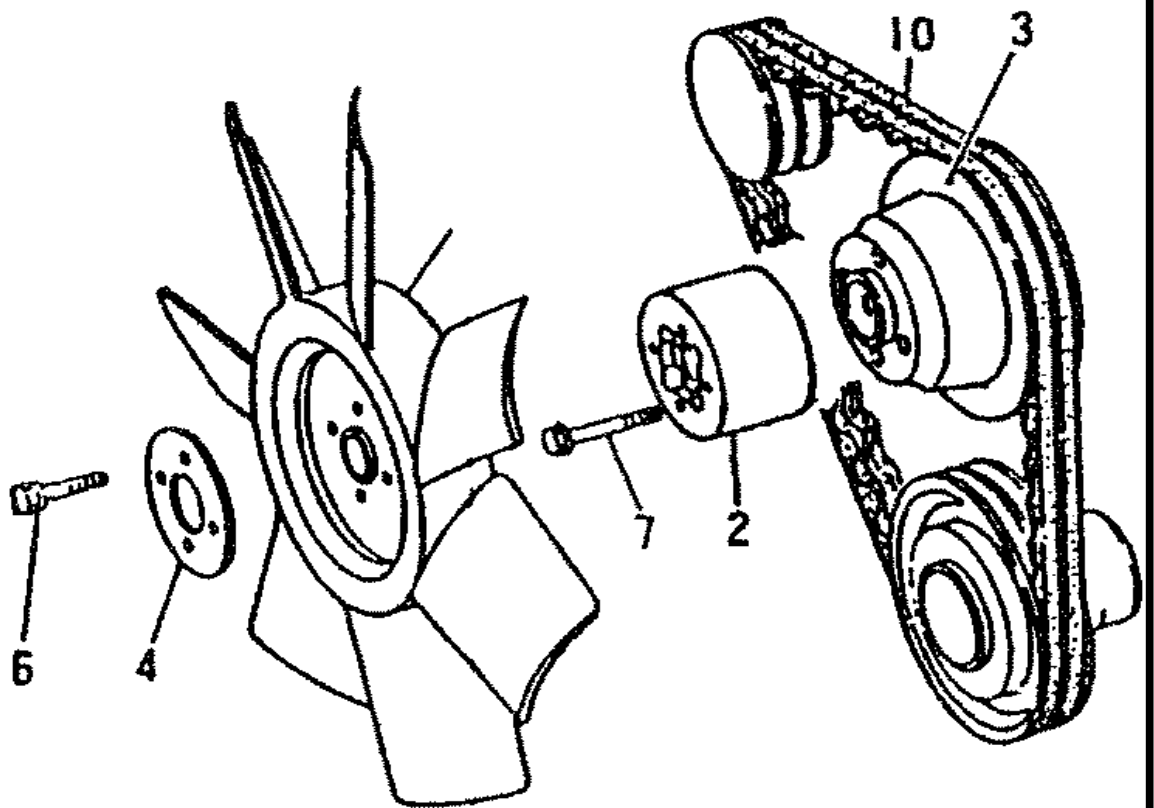
WATER TEMP GAUGE UNIT

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1	VA3089080401		1 GAUGE UNIT,THERMO SENDING
2	VAME049209		1 THERMOSTAT 105°C

6D31-T-MITSUBISHI DIESEL ENGINE

FAN & PULLEY

030-190A



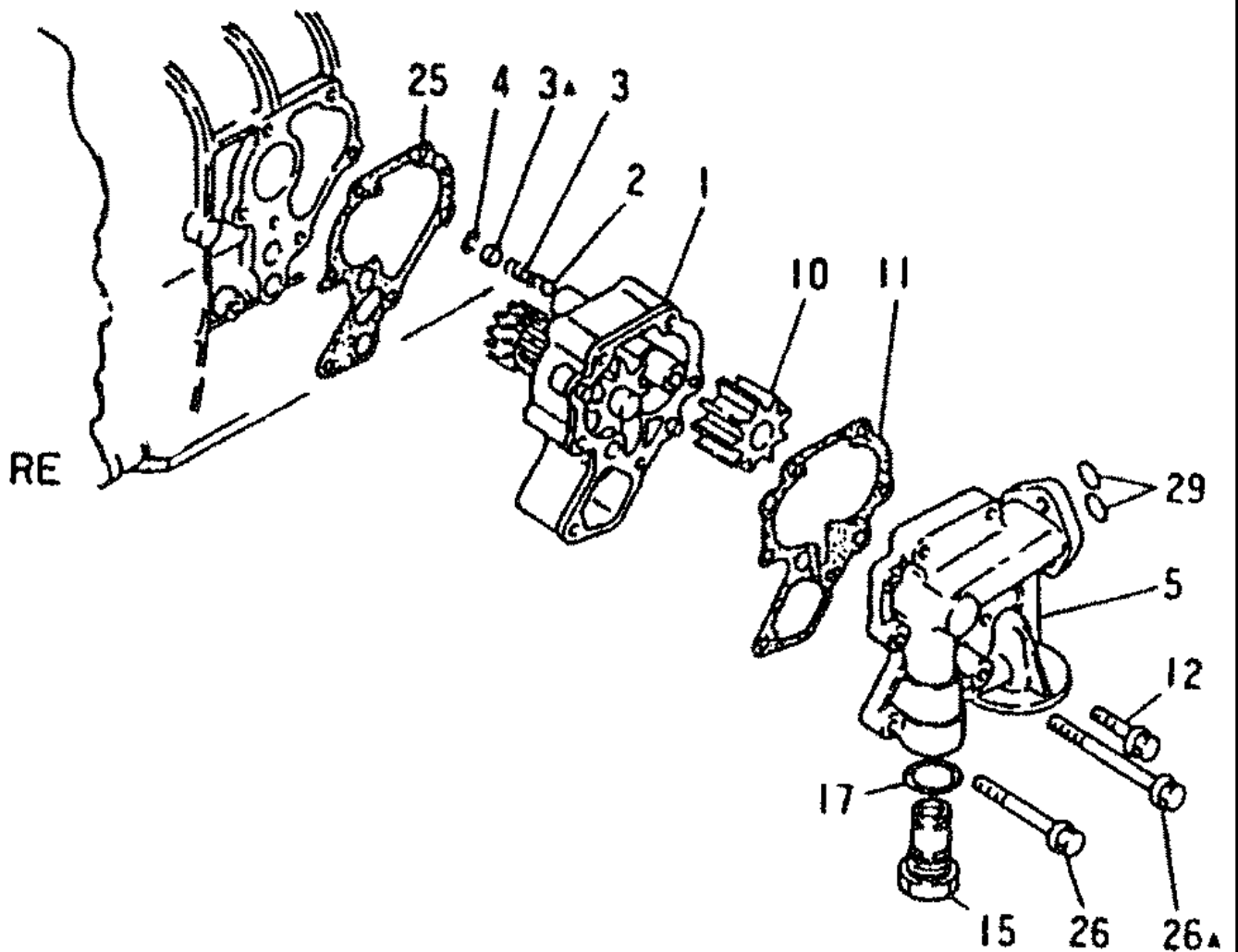
FAN & PULLEY

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1	VAME018185		1 FAN FAN,SUCTION TYPE PPG 600
2	VAME088133		1 SPACER SPACER 1=85
3	VAME088288		1 DRIVEN SPROCKET PUILEY.WATER PUMP D168 AX2
4	VA3004891500		1 SPACER PLATE
6	VAMF300845		4 BOLT BOLT,W / WSRr 10X30
7	VAMH000724		4 SCREW BOLT,FLANGE 10X85
10	VAME902206		1 BELT, TRANSMISSION V-BELT, 2BELTS SET A 1=1190

6D31-T-MITSUBISHI DIESEL ENGINE

OIL PUMP & GEAR TRAIN

030-220A



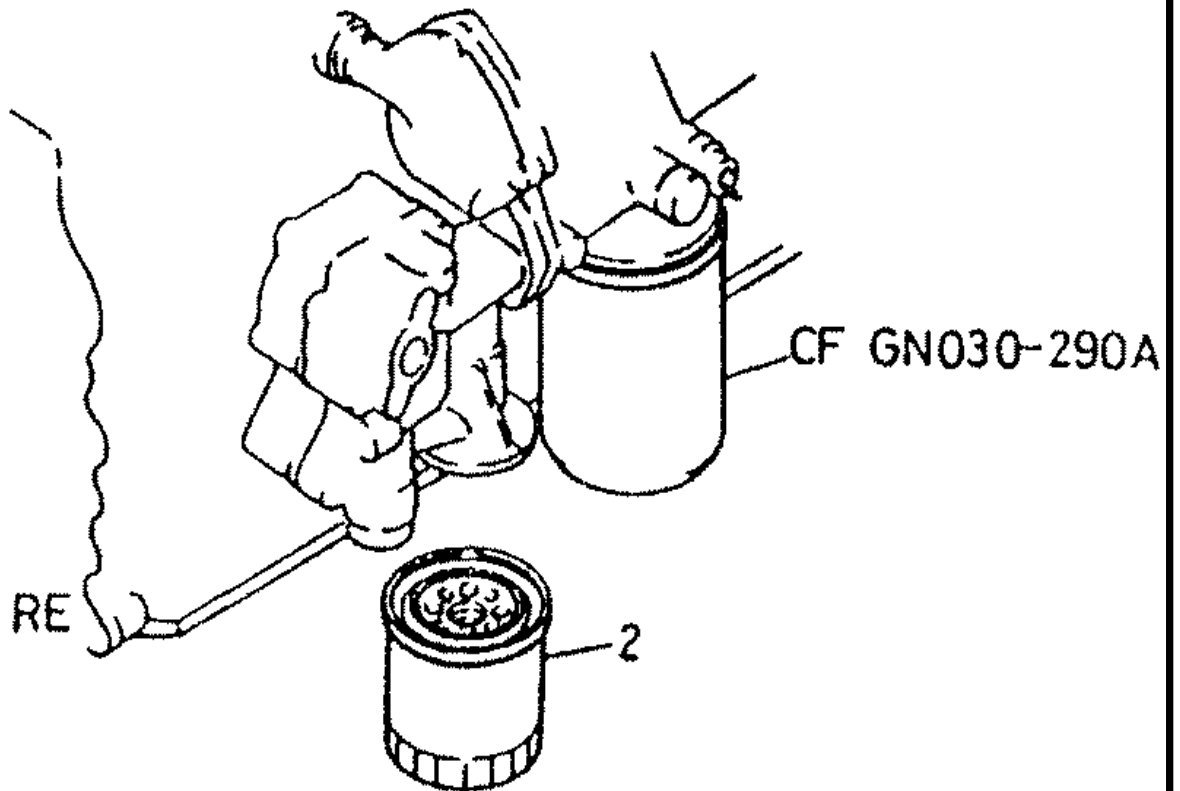
OIL PUMP & GEAR TRAIN

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1-17	VAME084586		1 ENGINE OIL PUMP OIL PUMP ASSY
1	{VAME084589}		1 CASE & ROTER KIT OIL PUMP CASE ASSY
2	{VAMF540014}		1 BALL BALL
3	VAME034013		1 SPRING SPRING
3A	{VAME034014}		1 SEAT SEAT,SPG
4	{VAMF522205}		1 RING SNAP 14 RING,SNAP 14
5	VAME084588		1 COVER ASSY OIL PUMP COVER ASSY
10	VAME084547		1 DRIVEN GEAR GEAR,DRIVEN
11	VAME084507		1 GASKET GASKET
12	VAMF140231		2 BOLT BOLT,FLANGE 8X35
15	VAME014471		1 VALVE RELIEF VALVE ASSY
17	VAMF660071		1 PACKING GASKET 27
25	VAME084519		1 GASKET GASKET,OIL PUMP
26A	VAMF140241		5 BOLT BOLT,FLANGE 8X80
26A	VAMF140245		1 BOLT BOLT,FLANGE 8X100
29	VAMH035015		2 O-RING 0-RING

6D31-T-MITSUBISHI DIESEL ENGINE

OIL FILTER

030-230A



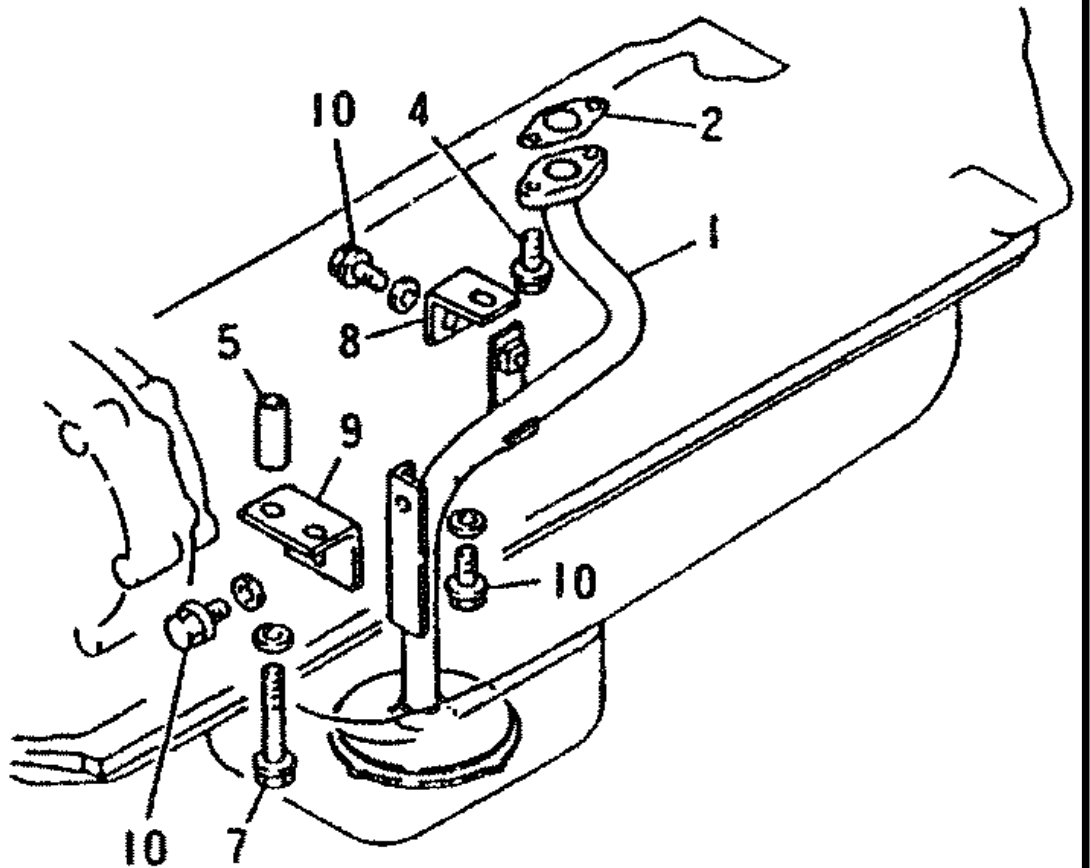
OIL FILTER

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
2	VAME014838		1 ELEMENT ELEMENT,BY-PASS OIL FILTER

6D31-T-MITSUBISHI DIESEL ENGINE

OIL STRAINER

030-240A



OIL STRAINER

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1	VAME018183		1 STRAINER ELEMENT STRAINER,OIL
2	VAME014532		1 GASKET GASKET,OIL STRAINER
4	VAMF140223		2 BOLT BOLT,FLANGE 8X16
5	VA3183292900		1 SPACER SPACER L=39
7	VAMF140236		1 BOLT BOLT,FLANGE 8X55
	VAMF450005		1 WASHER PLAIN 8
8	{VA3083680800}		1 STAY STAY
9	VA3083682200		1 STAY STAY
10	VAMF140223		3 BOLT BOLT,FLANGE 8X16
	VAMF450005		3 WASHER PLAIN 8

6D31-T-MITSUBISHI DIESEL ENGINE

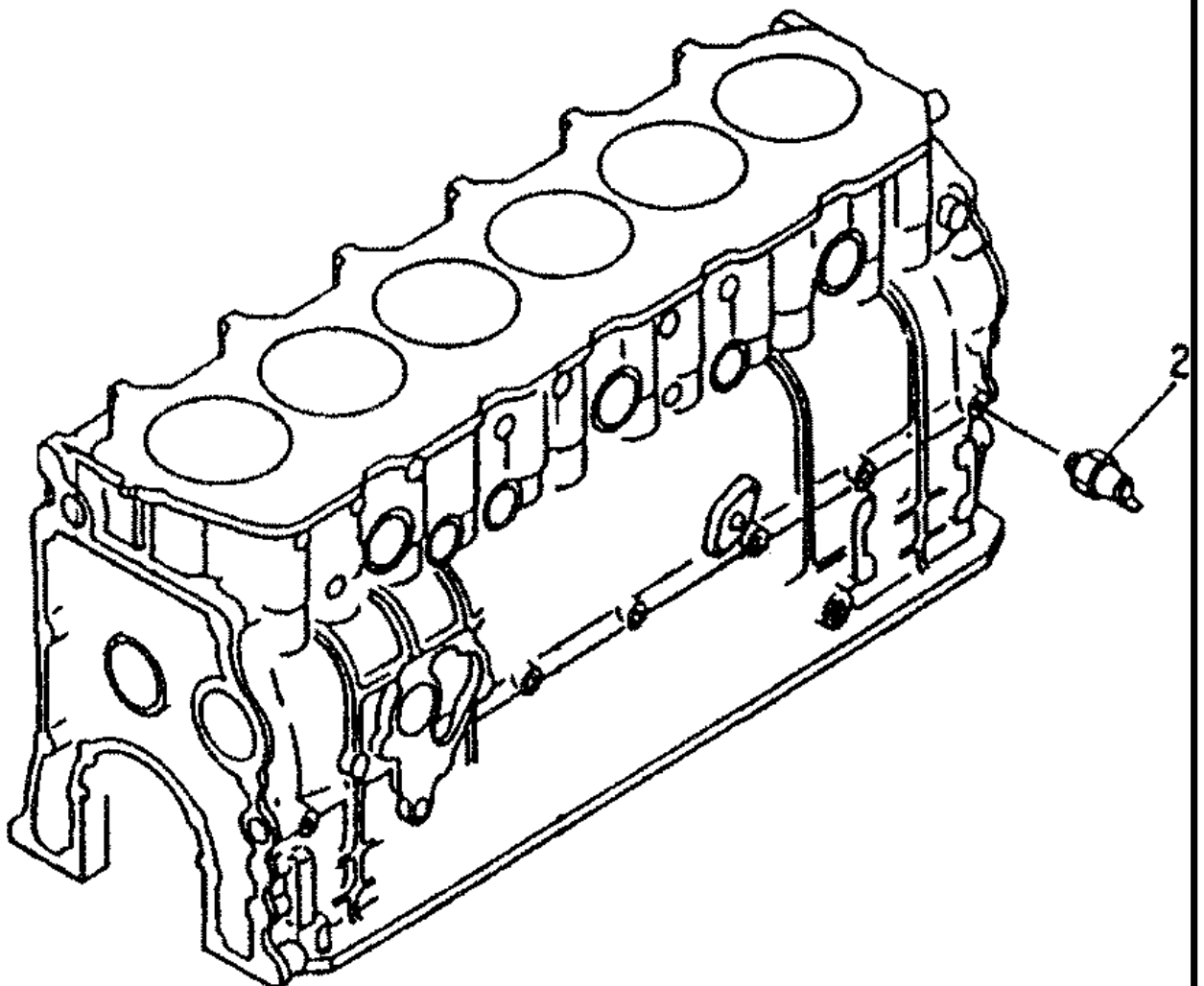
02-008

p1

8/2016

OIL PRESS SW & GAUGE UNIT

030-250A



02-008

p1

8/2016

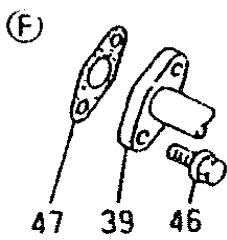
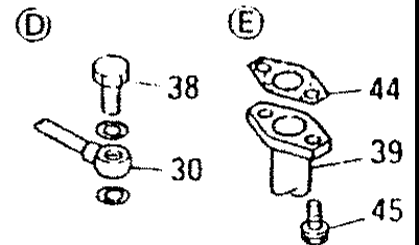
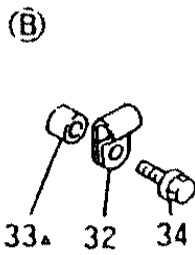
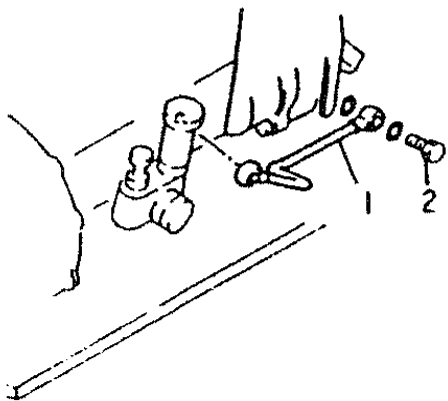
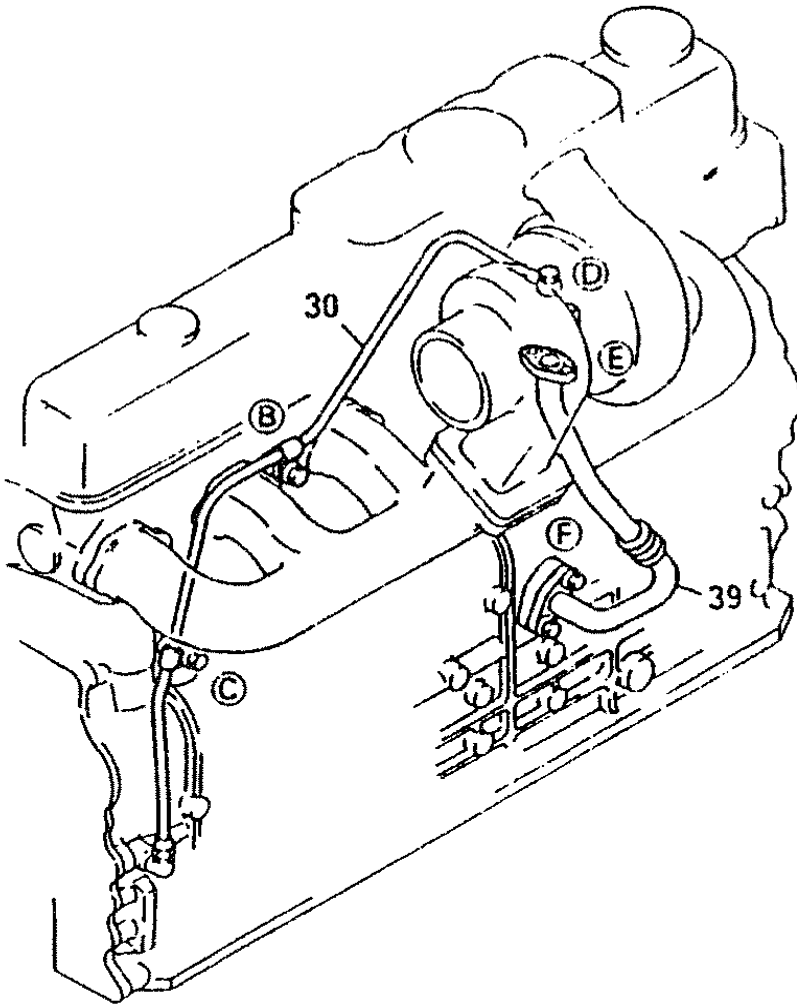
OIL PRESS SW & GAUGE UNIT

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
2	VAMC840219		1 SWITCH SWITCH.OIL PRESS. 0.5KG/CM2

6D31-T-MITSUBISHI DIESEL ENGINE

OIL LINE

030-280A



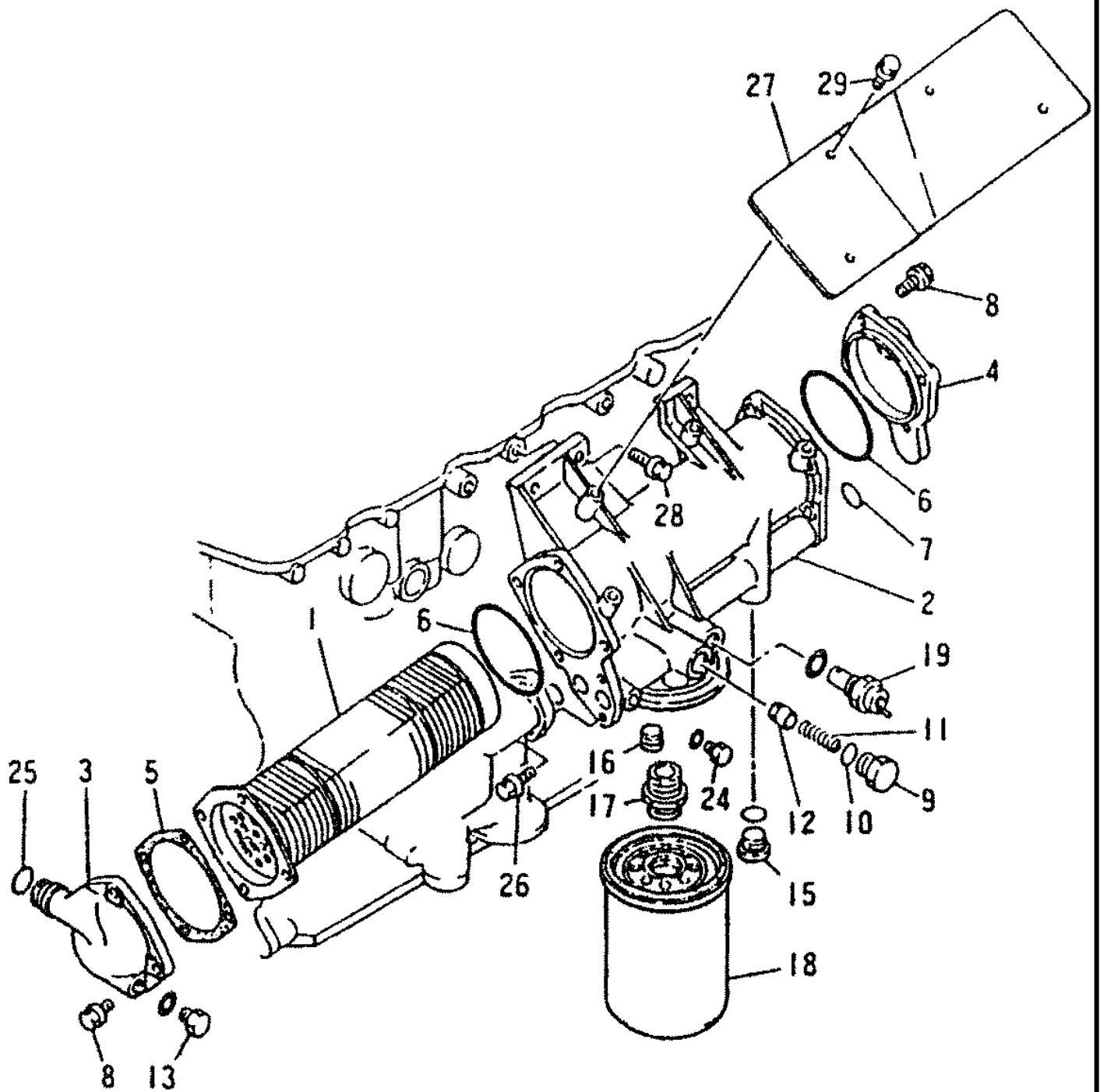
OIL LINE

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1	VAME018182		1 PIPE PIPE.OIL I/P
2	VAMH037279		1 BOLT BOLT,EYE
	VAMF660063		2 GASKET GASKET 10
30	VAME088315		1 PIPE PIPE,OIL TURBO INLET
32	{VA3003638302}		2 CLAMP CLAMP
33A	VAME920041		2 SPACER SPACER L=17
34	VAMF140229		2 BOLT BOLT,FLANGE 8X30
38	VAMF650102		1 SCREW BOLT,EYE
	VAMF660063		2 GASKET GASKET 10
39	VAME088283		1 PIPE PIPE,OIL TURBO OUTLET
44	VAME014559		2 GASKET GASKET
45	VAMH000999		2 BOLT BOLT,FLANGE 6X12
46	VAMF140223		2 BOLT BOLT,FLANGE 8X16
47	VAME014532		1 GASKET GASKET

6D31-T-MITSUBISHI DIESEL ENGINE

OIL COOLER

030-290A



OIL COOLER

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1-19	VAME084531		1 COOLER ASSY. OIL COOLER ASSY
1	VAME084532		1 OIL COOLER FILTER ELEMENT,OIL COOLER
2	VAME084533		1 SHELL SHELL,OIL COOLER
3	VAME084534		1 COVER COVER,OIL COOLER
4	VAME084535		1 COVER COVER,OIL COOLER
5	VAME084536		1 GASKET GAS.KET
6	VAME084537		2 O-RING O-RING 80
7	VAMH035091		1 O-RING O-RING 22
8	VAMF140025		8 SCREW BOLT,FLANGE 8X20
9	VAME014717		1 PINION PLUG
10	VAMH035044		2 O-RING O-RING
11	VAME084526		1 SPRING SPRING BY- PASS VALVE
12	VAME084527		1 VALVE PRESSURE RELIE VALVE,BY- PASS
13	VAME084528		1 PLUG PLUG
	VAMF660063		1 GASKET GASKET 10
15	VAMH037117		1 PLUG PLUG
16	{VAMF665103}		1 PLUG PLUG PT3/8
17	VAME084529		1 HYD CONNECTOR CONNECTOR
18	VAME084530		1 ELEMENT ELEMENT,OIL FILTER
19	VAME040217		1 BUZZER ALARM,OIL BY-PASS
	VAMF660068		1 PACKING GASKET 20
24	VAME031088		1 PLUG PLUG
	VAMF660063		1 GASKET GASKET 10
25	VAMF520016		1 O-RING O-RING 22.1
26	VAMF140225		2 BOLT BOLT,FLANGE 8X20
27	VAME084518		1 INSULATOR INSULATOR,HEAT O/C
28	VAMH000714		3 BOLT BOLT,FLANGE 10X25
29	VAMF140221		4 BOLT BOLT,FLANGE 8X12

6D31-T-MITSUBISHI DIESEL ENGINE

SECTION INDEX

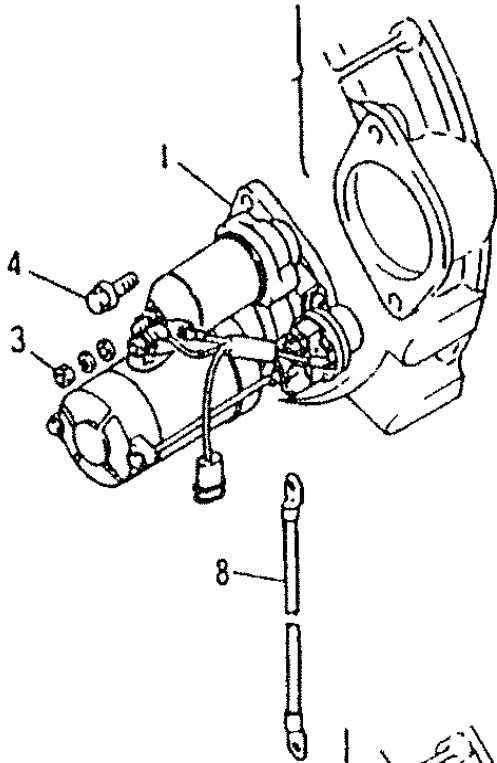
Engine Electrical

04-001	STARTER GENERAL
04-002	STARTER (INNER PARTS), P/N ME037507
04-003	STARTER (INNER PARTS), P/N ME087521
04-004	STARTER (INNER PARTS), P/N ME087590
04-005	ALTERNATOR GENERAL
04-006	ALTERNATOR (INNER PARTS)

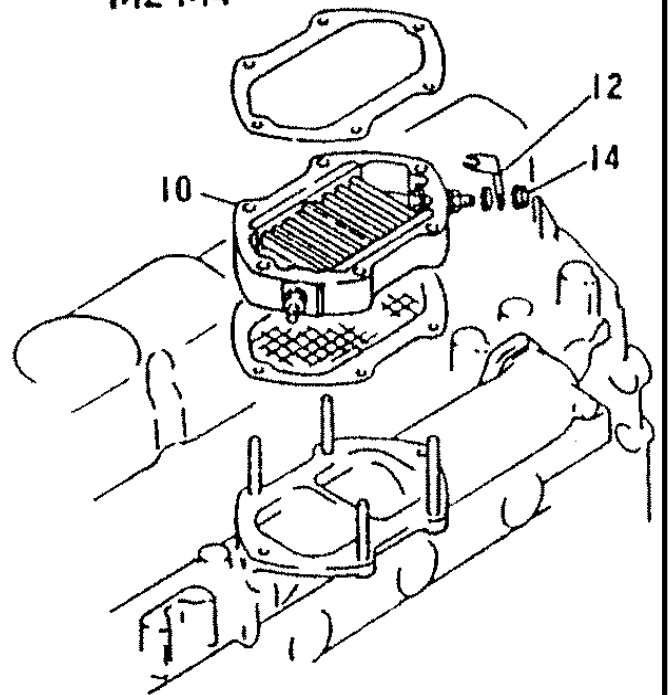
STARTER GENERAL

050-110A

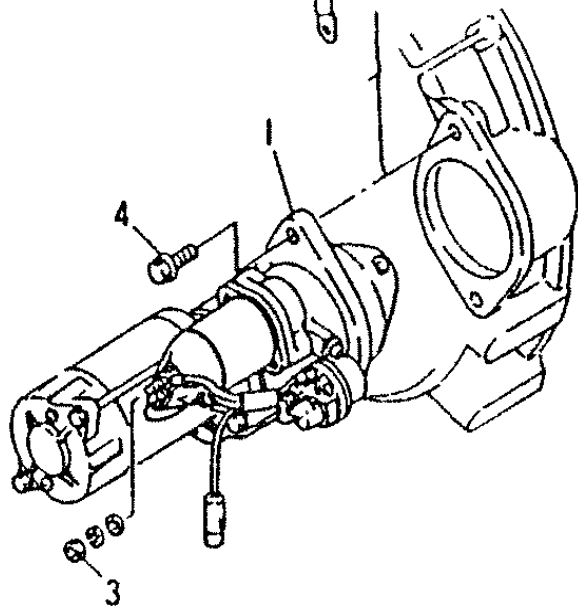
M4



M2 M4



M2



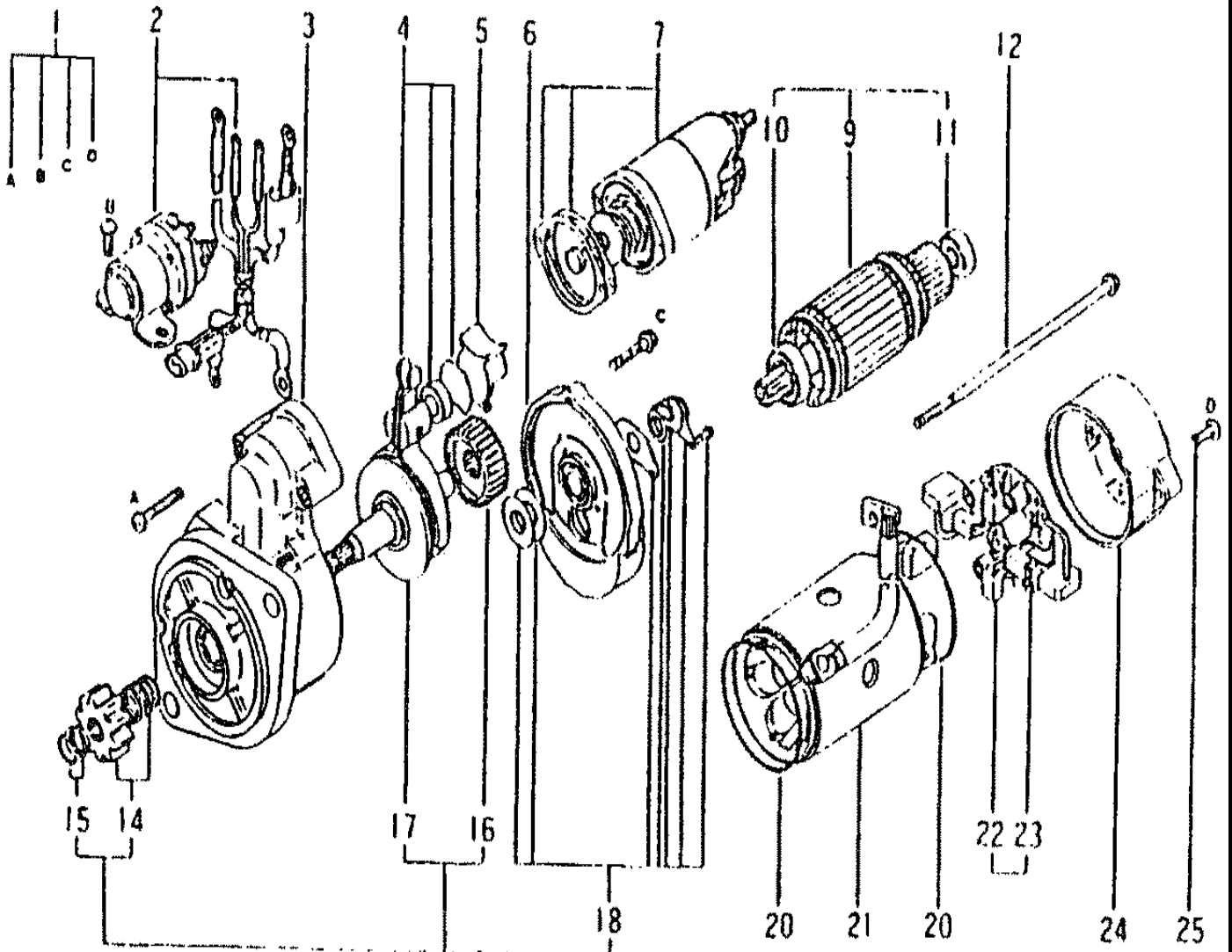
STARTER GENERAL

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1	VAME087507		1 STARTER MOTOR STARTER ASSY,MEC 24V-5KW, FOR M4 ONLY
1	VAME087521		1 STARTER MOTOR STARTER ASSY,MEC 24V-5.5KW, FOR M2 ONLY
3	VAMF430725		1 NUT NUT 8
	VAMF450405		1 WASHER WASHER,SPG 8
	VAMF450005		1 WASHER WASHER,PLAIN 8
4	VAMH000727		2 BOLT BOLT,FLANGE 12X30
8	VAMH054040		1 STRAP STRAP,EARTH, FOR M4 ONLY
10	VAME077014		1 HEATER AIR HEATER ASSY 22V-130A
12	VAME018150		1 PLATE PLATE,EARTH
14	VAMF434103		2 NUT NUT,FLANGE 6
	VAMF450153		1 WASHER WASHER,PLAIN 6

6D31-T-MITSUBISHI DIESEL ENGINE

STARTER (INNER PARTS), P/N ME037507

050-111A



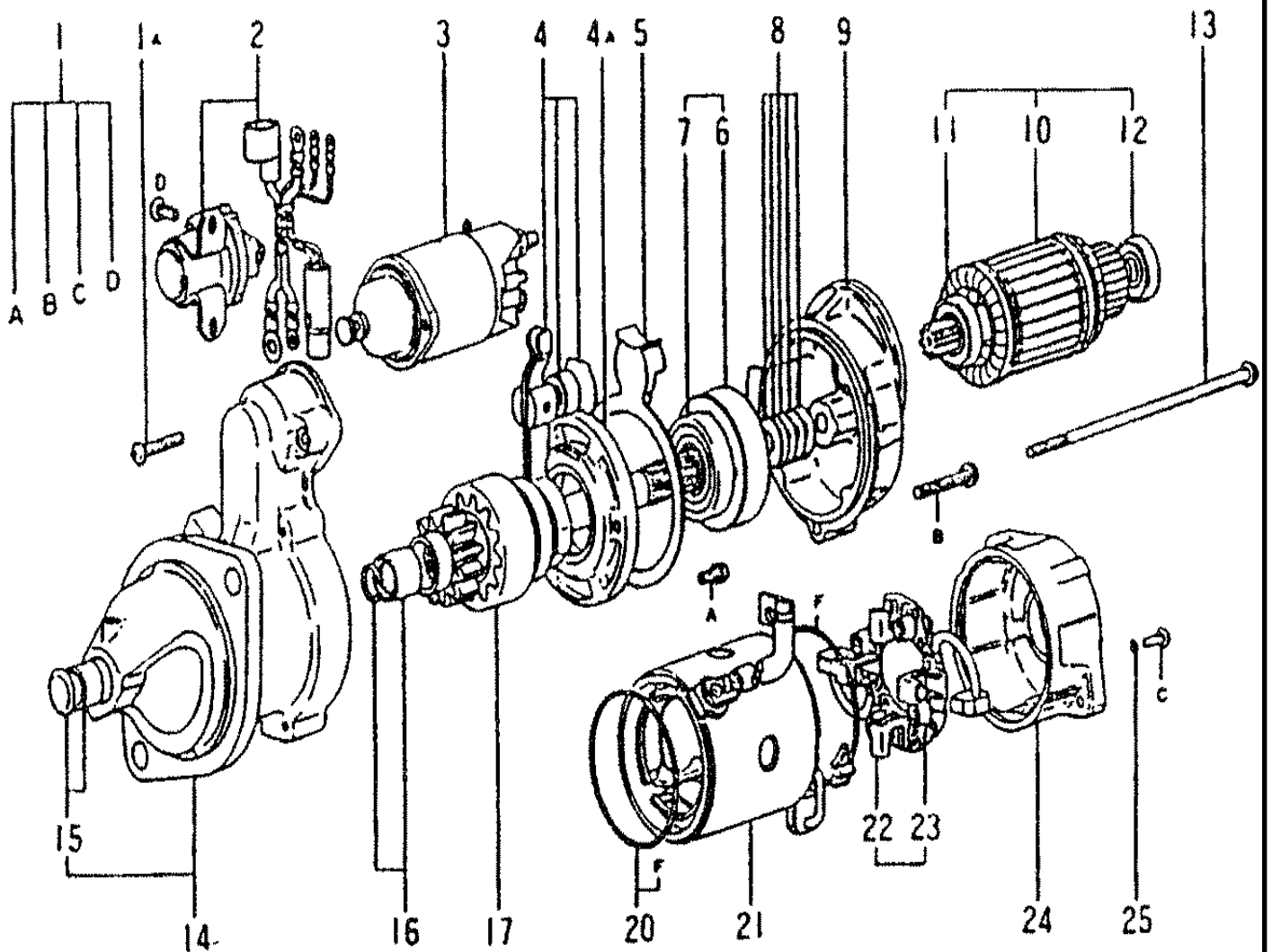
STARTER (INNER PARTS), P/N ME037507

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1-25	VAME087507		1 STARTER MOTOR STARTER ASSY 24V-5KW
1	{VAME700860}		1 SET SCREW SCREW SET
2	VAME700895		1 SWITCH SWITCH ASSY
3	{VAME700851}		1 BRACKET BRACKET ASSY.FR
4	VAME700234		1 LEVER LEVER ASSY
5	{VAME700033}		1 PACKING PACKING
6	{VAME700852}		1 BRACKET ASSY.CTR
7	VAME700853		1 SWITCH SWITCH ASSY
9-11	VAME700854		1 ARMATURE ARMATURE ASSY
9	NSS		1 NOT SOLD SEPARAT ARMATURE
10	VAME700117		1 BEARING BEARING,CTR
11	VAME700118		1 BALL BEARING BEARING,RE
12	VAME700036		1 BOLT BOLT SET
14-10	VAME700855		1 SHAFT CLUTCH SET SHAFT ASSY
14-15	VAME700856		1 SET OF PINIONS PINION SET
14	NSS		1 NOT SOLD SEPARAT PINION
15	VAME700124		1 STOP STOPPER SET
16-17	VAME700120		1 GEAR SET GEAR SET
16	{VAME700122}		1 GEAR GEAR
17	VAME700121		1 SHAFT PINION SHAFT ASSY
18	{VAME700045}		1 COVER SET COVER SET
20	VAME700130		2 PACKING PACKING
21	VAME700896		1 YOKE YOKE ASSY
22-23	VAME700858		1 HOLDER, INJECTOR NOZ BRUSH HOLDER ASSY
22	NSS		1 NOT SOLD SEPARAT HOLDER,BRUSH
23	{VAMD611025}		4 SPRING,BRUSH
24	VAME700129		1 U-BRACKET BRACKET,RE
25	VAME700026		2 SEAL RETAINER RING,RUBBER

6D31-T-MITSUBISHI DIESEL ENGINE

STARTER (INNER PARTS), P/N ME087521

050-111B



STARTER (INNER PARTS), P/N ME087521

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1-25	VAME087521		1 STARTER MOTOR STARTER ASSY 24V-5.5KW
1	VAME700276		2 SET OF SCREWS SCREW SET
1A	VAME700280		2 SCREW SCREW FLANGE
2	VAME700895		1 SWITCH SWITCH ASSY
3	VAME700889		1 SWITCH SWITCH ASSY
4	VAME700884		AR LEVER LEVER ASSY
4A	{VAME700287}		AR BRACKET BRACKET,GEAR
5	VAME700285		1 PACKING PACKING
6-7	VAME700286		1 SHAFT GEAR SHAFT ASSY
6	NSS		1 NOT SOLD SEPARAT GEAR,INTERNAL
7	VAME700072		1 BEARING BEARING,GEAR
8	VAME700022		1 WASHER WASHER SET
9	VAME700288		1 U-BRACKET BRACKET ASSY.CTR
10-12	VAME700321		1 ARMATURE ARMATURE ASSY
10	NSS		1 NOT SOLD SEPARAT ARMATURE
11	VAME700038		1 BEARING BEARING,CTR
12	VAME700039		1 BEARING BEARING,RE
13	VAME700291		1 BOLT BOLT SET
14	{VAME700885}		1 BRACKET ASSY BRACKET ASSY,FR
15	VAME700862		1 BUSHING SLEEVE BEARING SET
16	VAME700886		1 SOCKET STOPPER SET
17	VAME700887		1 CLUTCH CLUTCH,OVER RUNNING
20	VAME700875		1 GASKET PACKING SET
21	VAME700888		1 YOKE YORK ASSY
22-23	{VAME700047}		1 HOLDER BRUSH HOLDER ASSY
22	NSS		1 NOT SOLD SEPARAT HOLDER.BRUSH
23	{VAMD607462}		4 SPRING SPRING,BRUSH
24	VAME700048		1 U-BRACKET BRACKET ASSY,RE
25	VAME700026		2 SEAL RETAINER RING,RUBBER

6D31-T-MITSUBISHI DIESEL ENGINE

04-004

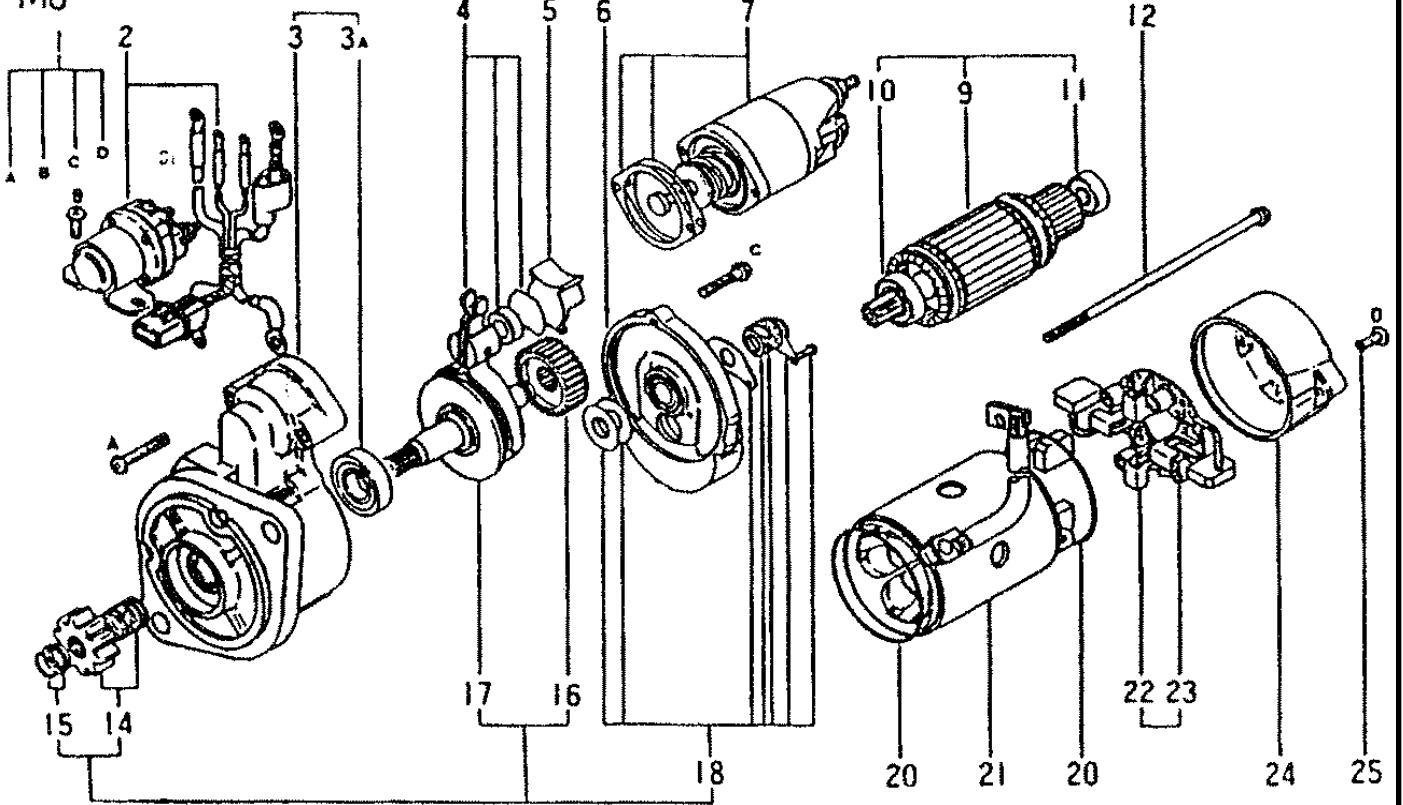
p1

8/2016

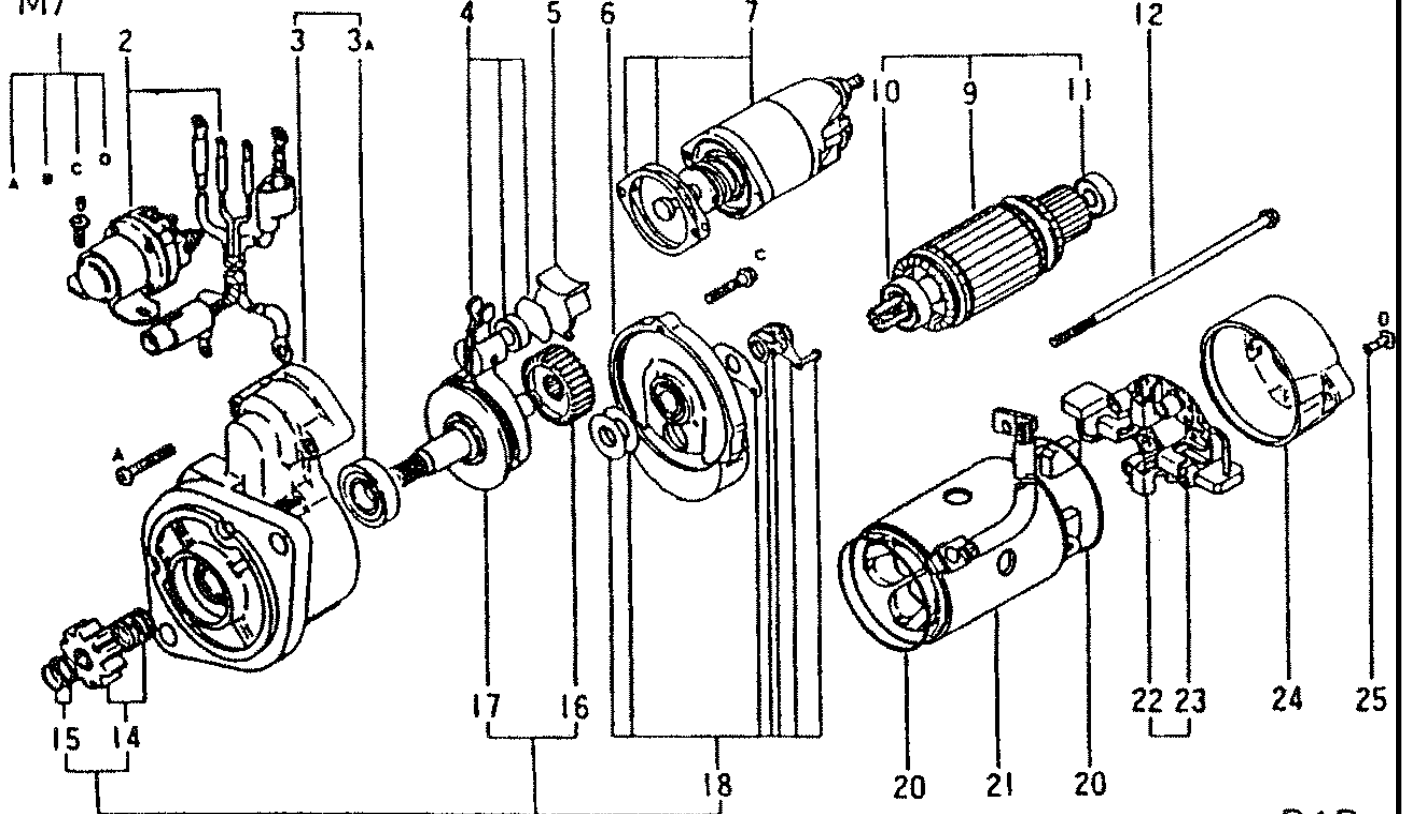
STARTER (INNER PARTS), P/N ME087590

050-111A

M6



M7



DAB

STARTER (INNER PARTS), P/N ME087590

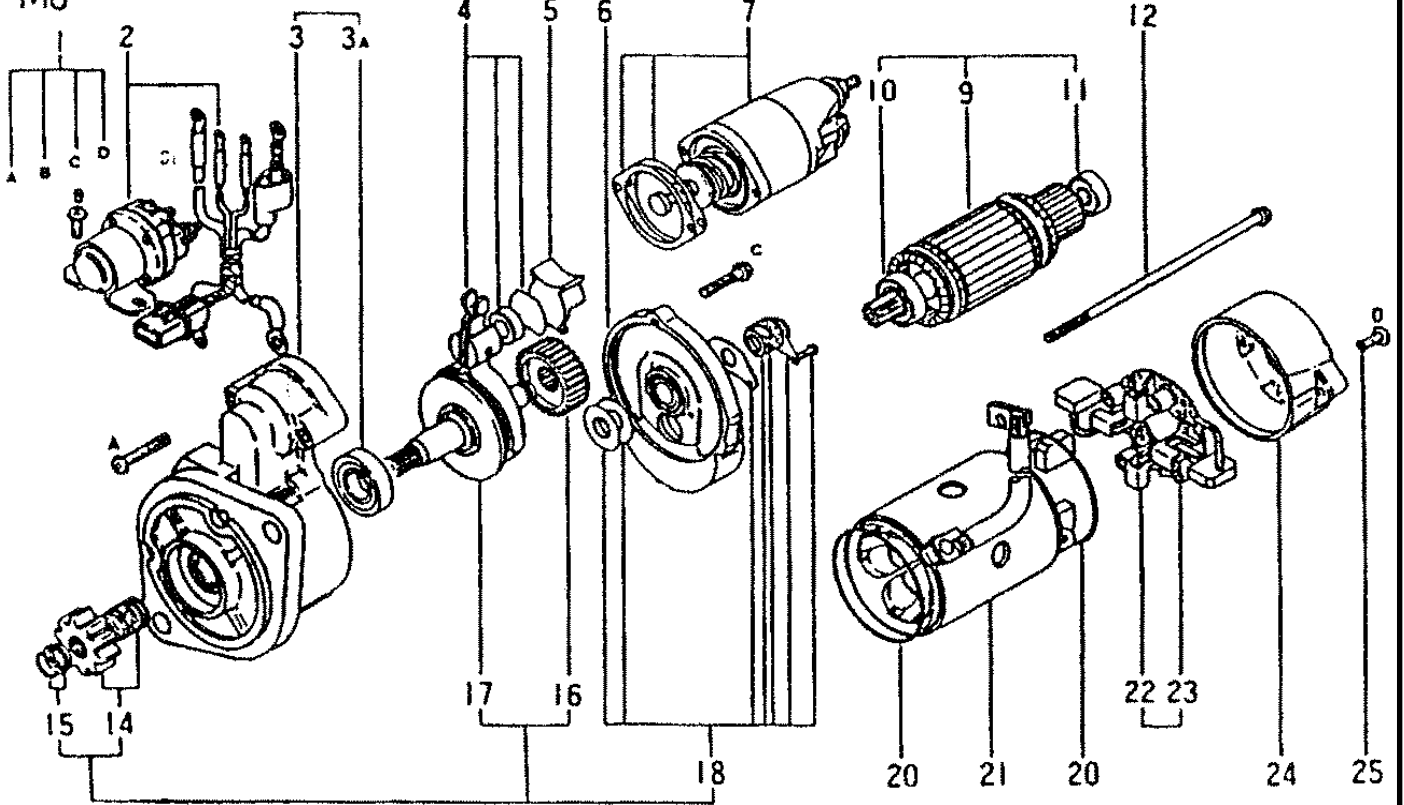
REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1-25	VAME087590		1 STARTER MOTOR 24V, 5kW STARTER ASSY 24V-5KW, FOR M6 ONLY
	VAM002T78381R		1 REMAN-STARTER 6D31-T - Mitsubishi Diesel Engine, Reman For New P/N VAME087590, N.A. Only
	VAM002T78381C		CORE-STARTER Return Number, For N.A. Only
	VAME087589		1 STARTER MOTOR STARTER ASSY 24V-5KW, FOR M7 ONLY
1	{VAME700860}		1 SET SCREW SCREW SET
2	VAME700895		1 SWITCH SWITCH ASSY, FOR M7 ONLY
2	VAME701093		1 RELAY SWITCH ASSY, FOR M6 ONLY
3-3A	{VAME701091}		1 BRACKET ASSY, FOR M6 ONLY
3-3A	{VAME701099}		1 BRACKET ASSY, FOR M7 ONLY
3	NSS		1 NOT SOLD SEPARAT BRACKET .FR
3A	VAME701024		1 BEARING SLEEVE BEARING SET
4	VAME700234		1 LEVER LEVER ASSY
5	{VAME700033}		1 PACKING PACKING
6	{VAME700988}		1 BRACKET BRACKET ASSY.CTR
7	VAME700853		1 SWITCH SWITCH ASSY
9-11	VAME700854		1 ARMATURE ARMATURE ASSY
9	NSS		1 NOT SOLD SEPARAT ARMATURE
10	VAME700117		1 BEARING BEARING,CTR
11	VAME700118		1 BALL BEARING BEARING,RE
12	VAME700036		1 BOLT BOLT SET
14-18	VAME701092		1 CLUTCH CLUTCH SET SHAFT ASSY
14-15	VAME700856		1 SET OF PINIONS PINION SET
14	NSS		1 NOT SOLD SEPARAT PINION
15	VAME700124		1 STOP STOPPER SET
16-17	VAME700971		1 GEAR SET GEAR SET
16	{VAME700122}		1 GEAR GEAR
17	VAME700972		1 SET OF PINIONS PINION SHAFT ASSY
18	{VAME700993}		1 COVER COVER SET
20	VAME700130		2 PACKING PACKING
21	VAME700992		1 YOKE YOKE ASSY

6D31-T-MITSUBISHI DIESEL ENGINE

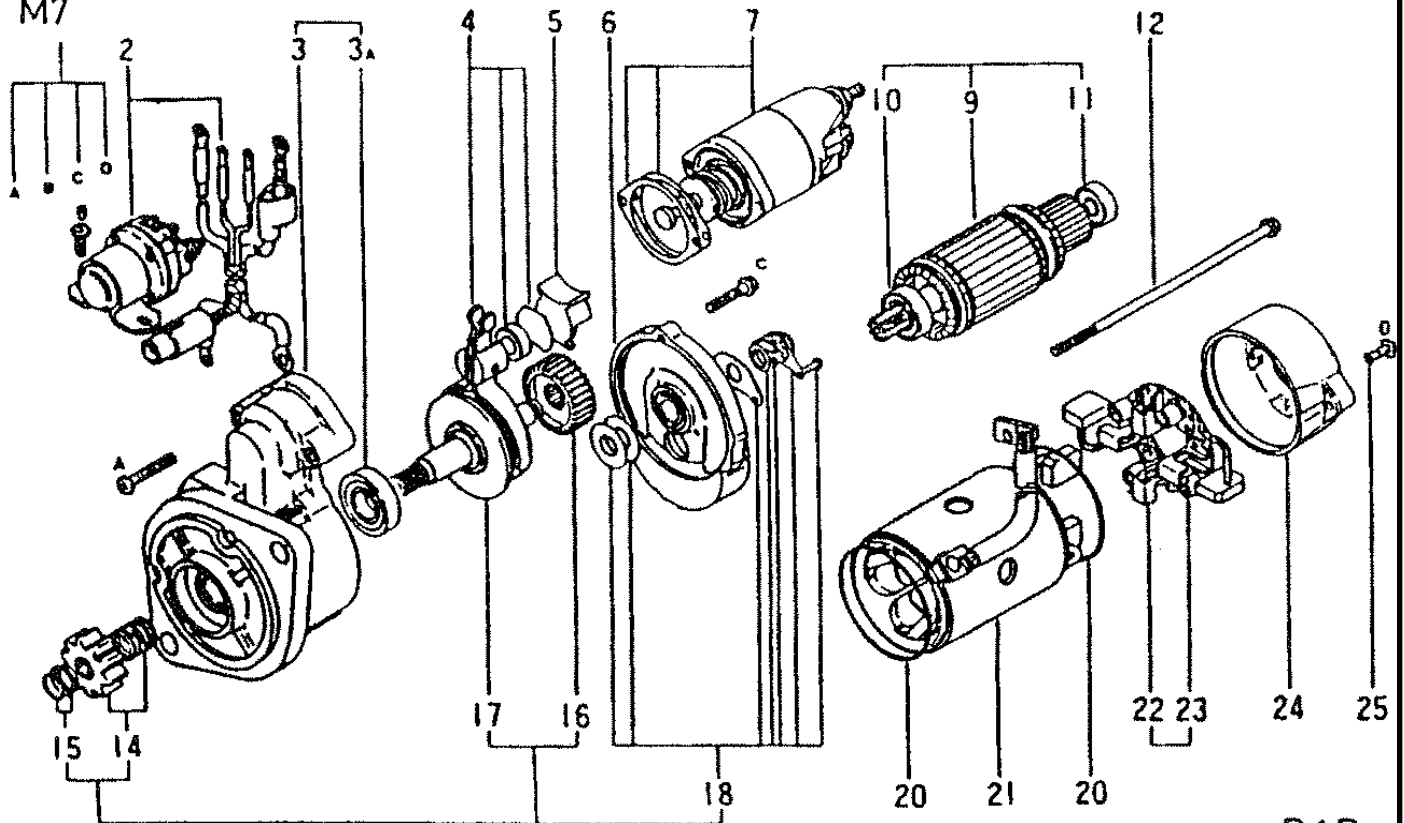
STARTER (INNER PARTS), P/N ME087590

050-111A

M6



M7



DAB

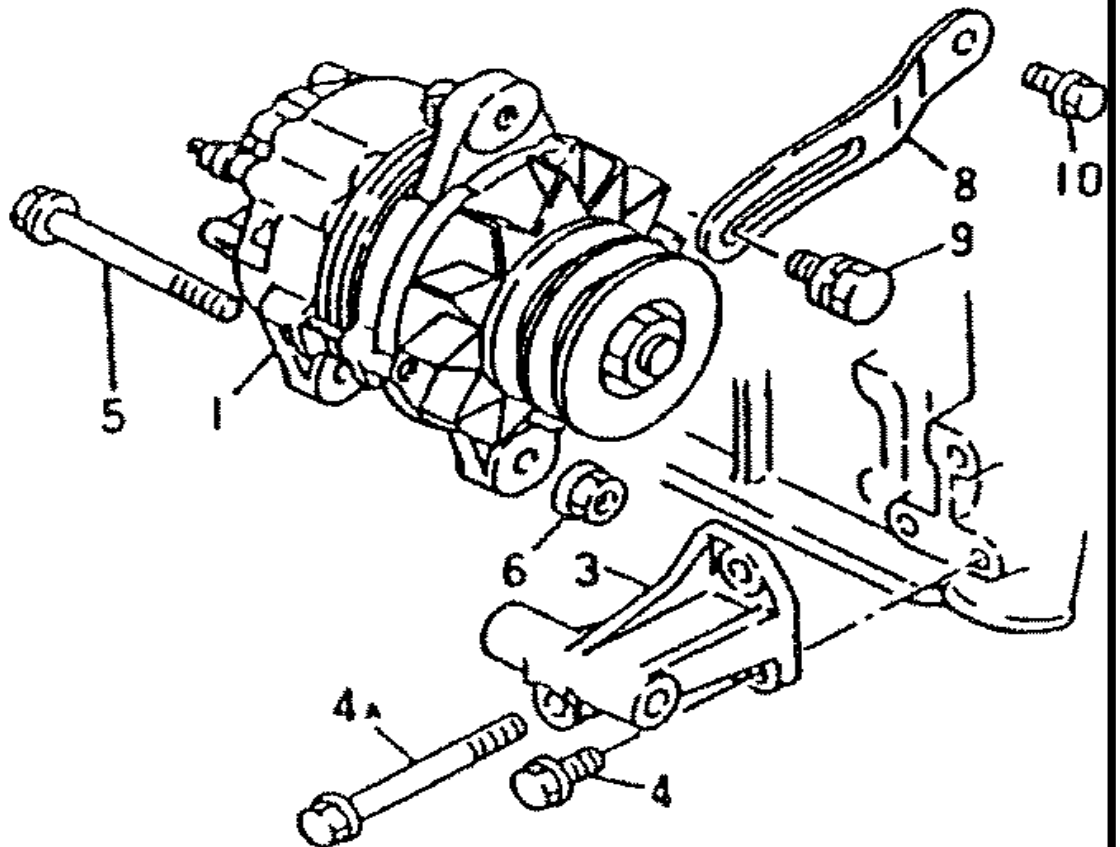
STARTER (INNER PARTS), P/N ME087590

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
22-23	VAME700858		1 HOLDER, INJECTOR NOZ BRUSH HOLDER ASSY
22	NSS		1 NOT SOLD SEPARAT HOLDER,BRUSH
23	{VAMD611025}		4 SPRING,BRUSH
24	VAME700129		1 U-BRACKET BRACKET,RE
25	VAME700026		2 SEAL RETAINER RING,RUBBER

6D31-T-MITSUBISHI DIESEL ENGINE

ALTERNATOR GENERAL

050-130A



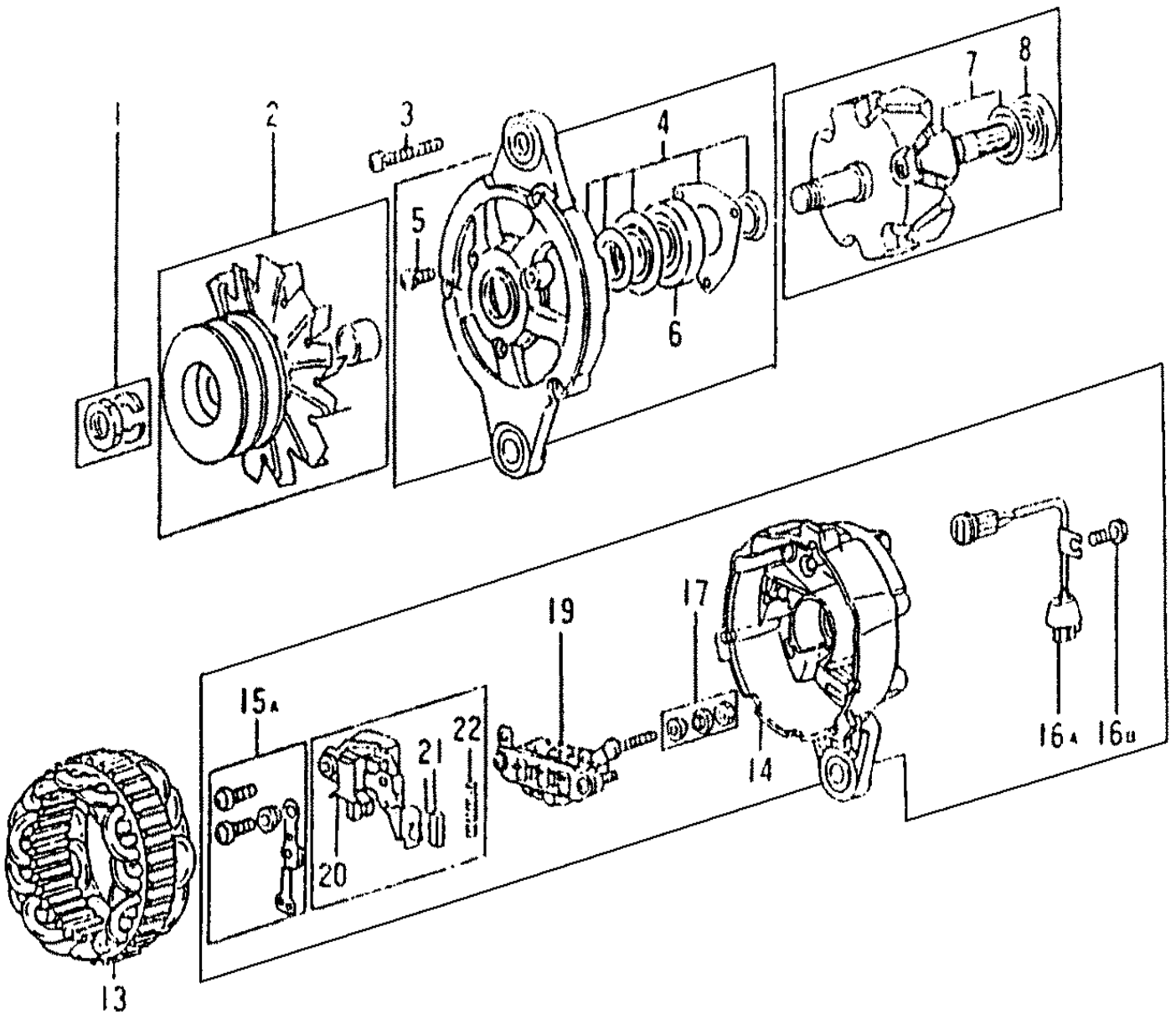
ALTERNATOR GENERAL

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1	VAME087508		1 ALTERNATOR ALTERNATOR ASSY.MEC 24V- 30A
3	VAME088247		1 BRACKET BRACKET,ALTERNATOR
4	VAMH000726		2 BOLT BOLT,FLANGE 10X22
4A	VAMH000732		1 SCREW BOLT,FLANGE 10X95
5	VAMH000703		1 BOLT BOLT,FLANGE 12X125
6	VAMF434106		1 NUT NUT,FLANGE 12
8	VAME018077		1 ADJUSTING PLATE PLATE,ADJUSTING
9	VAMH000372		1 SCREW BOLT.W/WSR 12X30
10	VAMH000713		1 BOLT BOLT,FLANGE 10X20

6D31-T-MITSUBISHI DIESEL ENGINE

ALTERNATOR (INNER PARTS)

050-1310



ALTERNATOR (INNER PARTS)

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1-22	VAME087508		1 ALTERNATOR ALTERNATOR ASSY,MEC 24V- 30A
1	VAME700588		1 NUT NUT SET
2	VAME700882		1 PLATE PULLEY, AX2
3	{VAME700590}		1 SCREW SET SEREW, SET
4-6	VAME700633		1 PANEL BRACKET, ASSY.IR
4	NSS		1 NOT SOLD SEPARAT BRACKET.FR
5	{VAMM502367}		1 SCREW SCREW, SET
6	VAME700535		1 BEARING BEARING,FR
7-8	VAME700606		1 ROTOR ROTOR ASSY
7	NSS		1 NOT SOLD SEPARAT ROTOR
8	VAME700746		1 BALL BEARING BEARING,RE
13	VAME700607		1 STATOR STATOR
14-22	VAME700766		1 U-BRACKET BRACKET ASSY,RE
14	NSS		1 NOT SOLD SEPARAT BRACKET,RE
15A	VAME700596		1 TERMINAL TERMINAL SET
16A	VAME700639		1 HYD CONNECTOR CONNECTOR ASSY
168	{VAME700154}		1 BOLT BOLT
17	VAME700821		1 NUT NUT SET
19	VAME700767		1 RECTIFIER RECTIFIER ASSY
20-22	VAME700635		1 REGULATOR REGULATOR ASSY
20	NSS		1 NOT SOLD SEPARAT REGULATOR
21	VAMM502377		2 BRUSH BRUSH
22	{VAMM502378}		2 SPRING SPRING, BRUSH

6D31-T-MITSUBISHI DIESEL ENGINE

SECTION INDEX

Engine Special Equipment

05-001

INSTRUMENT

INSTRUMENT

090-200A

2



2a



2f



2g



2h



2k



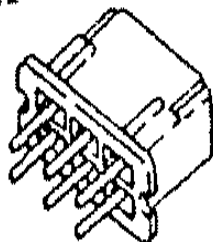
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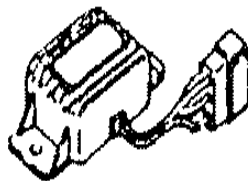
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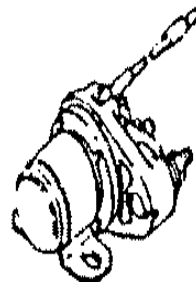
3a



5a



7



INSTRUMENT

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
2	VAMH052064		1 TERMINAL CONNECTOR
2A	VAMH052002		1 HYD CONNECTOR CONNECTOR,CB104
2F	VA3096803122		1 GROMMET GROMMET
2G	VAMH052377		1 HYD CONNECTOR CONNECTOR,IP FEMALE
2H	VAMH052231		1 HYD CONNECTOR CONNECTOR,2P FEMALE
2K	VAMB286874		2 HYD CONNECTOR CONNECTOR,2P FEMALE
2K	VAMB286874		1 HYD CONNECTOR CONNECTOR,2P FEMALE
2L	VAMH052356		1 HYD CONNECTOR CONNECTOR
2M	VAMH022419		1 GROMMET GROMMET
3A	VAMH052042		1 HYD CONNECTOR CONNECTOR,6P FEMALE
5A	{VAME049228}		1 RELAY, SAFET. RELAY,SAFETY,MEC
7	VAME067626		1 RELAY RELAY,HEATER,MEC
	VAME067637		1 FUSE FUSE 164A

6D31-T-MITSUBISHI DIESEL ENGINE

SECTION INDEX

Name Plate

06-001

NAME-PLATE

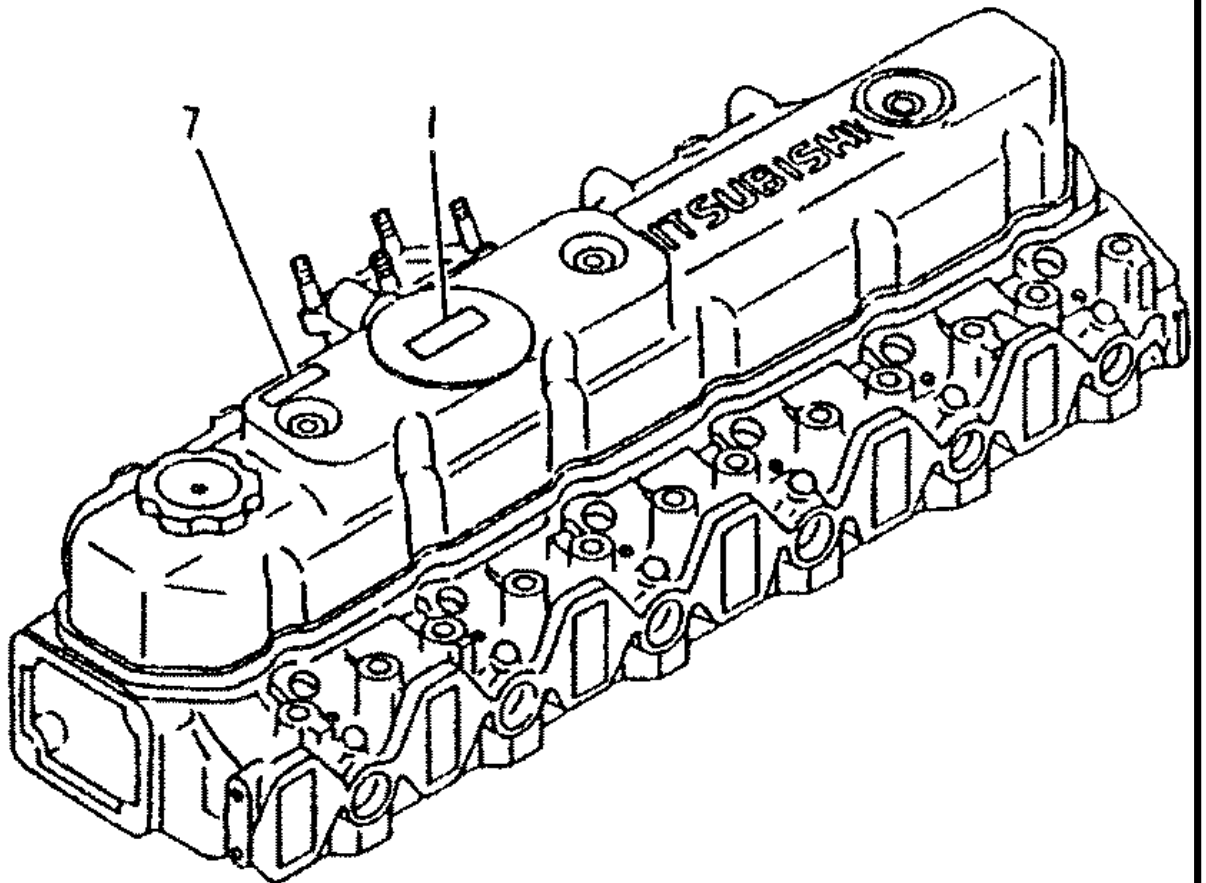
06-001

p1

8/2016

NAME-PLATE

390-700A



NAME-PLATE

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1	VAME038917		1 WARNING SIGN PLATE,CAUTION
7	VAME057422		1 PLATE PLATE.CAUTION,OIL

6D31-T-MITSUBISHI DIESEL ENGINE

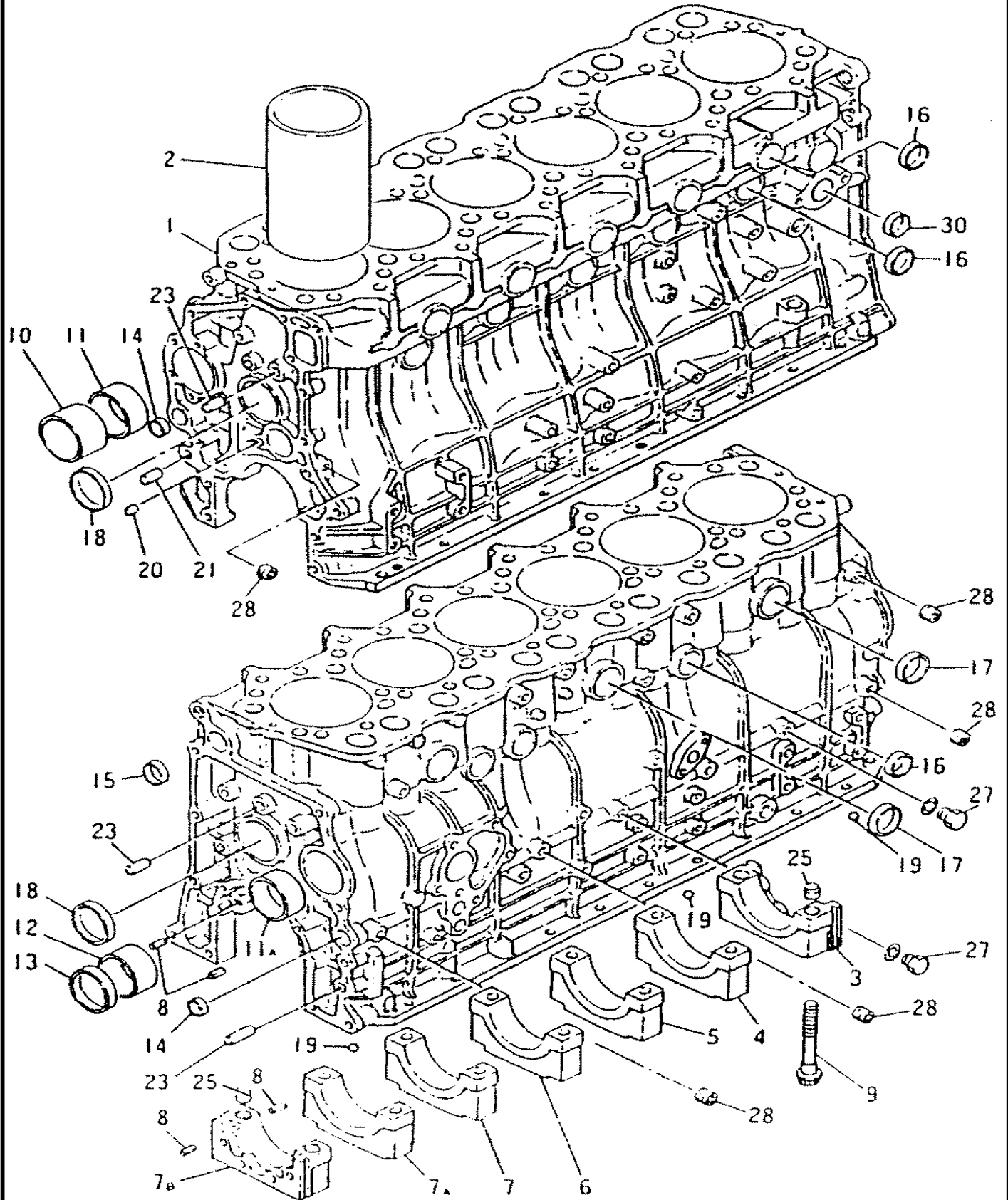
SECTION INDEX

Repair Parts (for Service only)

07-001	CYLINDER BLOCK REPAIR KIT
07-002	CYLINDER HEAD REPAIR KIT
07-003	ENGINE OIL SEAL KIT
07-004	LINER & PISTON KIT
07-005	ENGINE GASKET KIT

CYLINDER BLOCK REPAIR KIT

450-800A



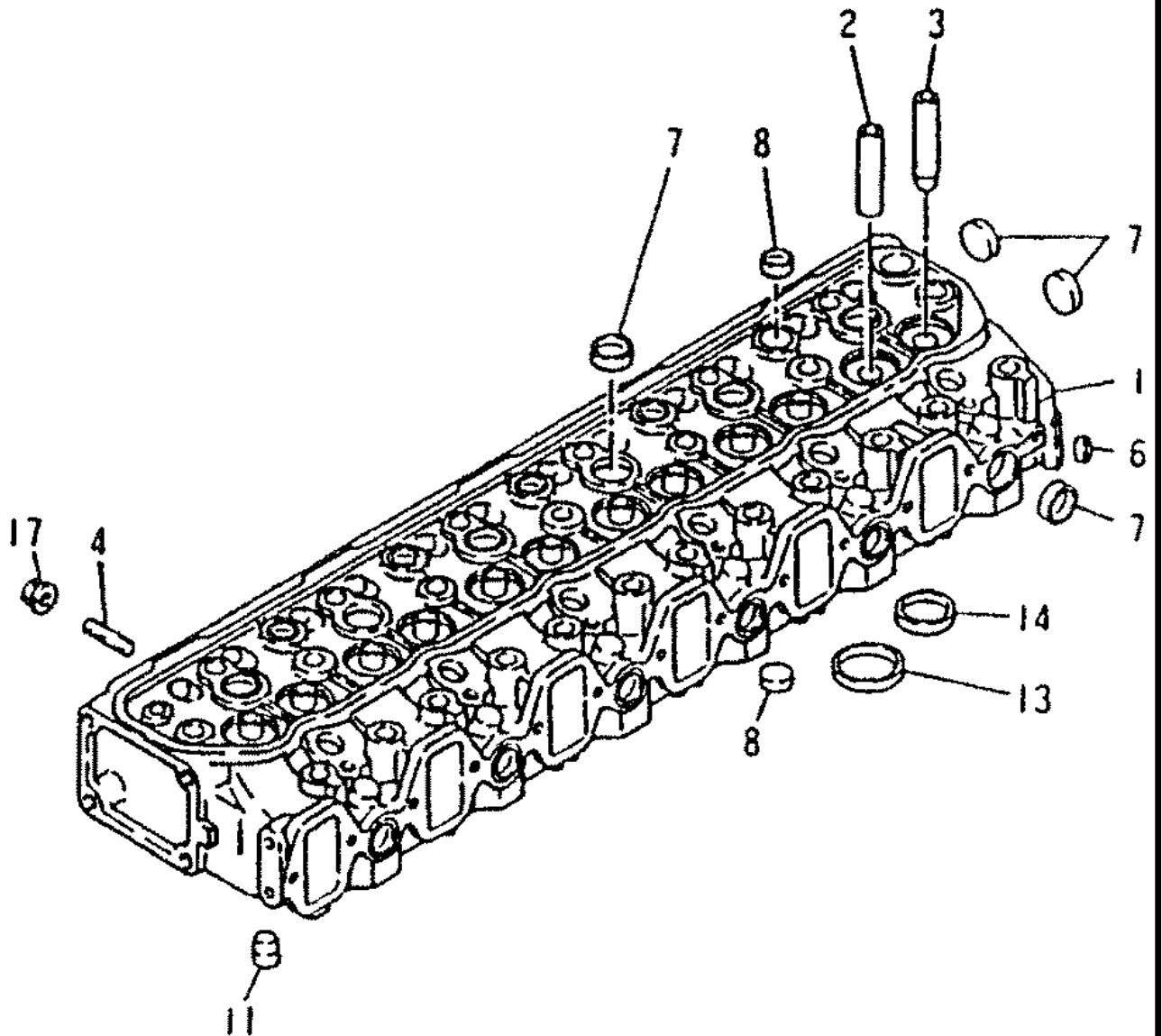
CYLINDER BLOCK REPAIR KIT

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1-30	{VAME999886}		1 CRANK CASE ASSY CRANKCASE ASSY 6D31.31T
1	NSS		1 NOT SOLD SEPARAT CRANKCASE
2	VAME011626		6 SLEEVE CYLINDER SLEEVE,CYL STD
3	NSS		1 NOT SOLD SEPARAT CAP.BRG HO.1
4	NSS		1 NOT SOLD SEPARAT CAP.BRG HO.2
5	NSS		1 NOT SOLD SEPARAT CAP.BRG NO.3
6	NSS		1 NOT SOLD SEPARAT CAP.BRG NO.4
7	NSS		1 NOT SOLD SEPARAT CAP.BRG NO.5
7A	NSS		1 NOT SOLD SEPARAT CAP.BRG NO.6
7B	NSS		1 NOT SOLD SEPARAT CAP.BRG NO.7
8	VAMH012041		6 PIN PIN,SPG 1X10
9	VAME011519		14 SCREW BOLT 14X102
10	VAME029225		1 BUSHING BUSHING,CAMSHAFT NO.1
11	VAME011593		1 BUSHING BUSHING,CAMSHAFT NO.2
11A	VAME081526		1 BEARING LINER SCREW BUSHING,CAMSHAFT NO.3
12	VAME011594		1 BUSHING BUSHING,CAMSHAFT NO.4
13	VAMH037751		1 CAP CAP,SEALING 57
14	VAMS666136		2 PLUG CAP,SEALING 22
15	VAMS666138		1 CAP CAP,SEALING 28
16	VAMS666140		12 PLUG CAP,SEALING 35
17	VAMD000427		3 PLUG CAP,SEALING 10
18	VAMH037754		2 CAP CAP,SEALING 50
19	VAMF540011		4 BALL BALL,STEEL
20	VAME029046		1 PLUG PLUG
21	VAMF472406		1 PIN PIN,DOWEL 12,FOR FR
23	VAMH007010		3 PIN PIN,DOWEL 12,FOR RE
25	VAME011618		4 PIN PIN,DOWEL,FOR BRG CAP
27	VAME031088		2 PLUG SCREW,SET
	VAMF660063		2 GASKET GASKET 10
28	VAMH037237		5 PLUG PLUG,TAPER
30	VAMF665540		1 CAP CAP,SEALING 30

6D31-T-MITSUBISHI DIESEL ENGINE

CYLINDER HEAD REPAIR KIT

450-810A



CYLINDER HEAD REPAIR KIT

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1-17	VAME999844		1 HEAD CYLINDER HEAD ASSY W/O CLOW
1	NSS		1 NOT SOLD SEPARAT HEAD.CYL
2	VAME031886		6 GUIDE GUIDE,VALVE INLET
3	VAME031888		6 GUIDE GUIDE,VALVE EXH
4	VAMH002174		12 STUD EXHUST MANIFOLD M10x33mm Long
6	VAMS666132		6 CAP CAP,SEALING 14
7	VAMS666138		14 CAP CAP,SEALING 28
8	VAMS666136		11 PLUG CAP,SEALING 22
11	VAME011012		1 GUIDE DIRECTOR
13	VAME011058		6 SEAT, VALVE INSERT,VALVE SEAT INLET
14	VAME029004		6 SEAT INSERT,VALVE SEAT EX11
17	VAMH004054		12 NUT NUT,FLANGE 10,FOR EX11 MANIF

6D31-T-MITSUBISHI DIESEL ENGINE

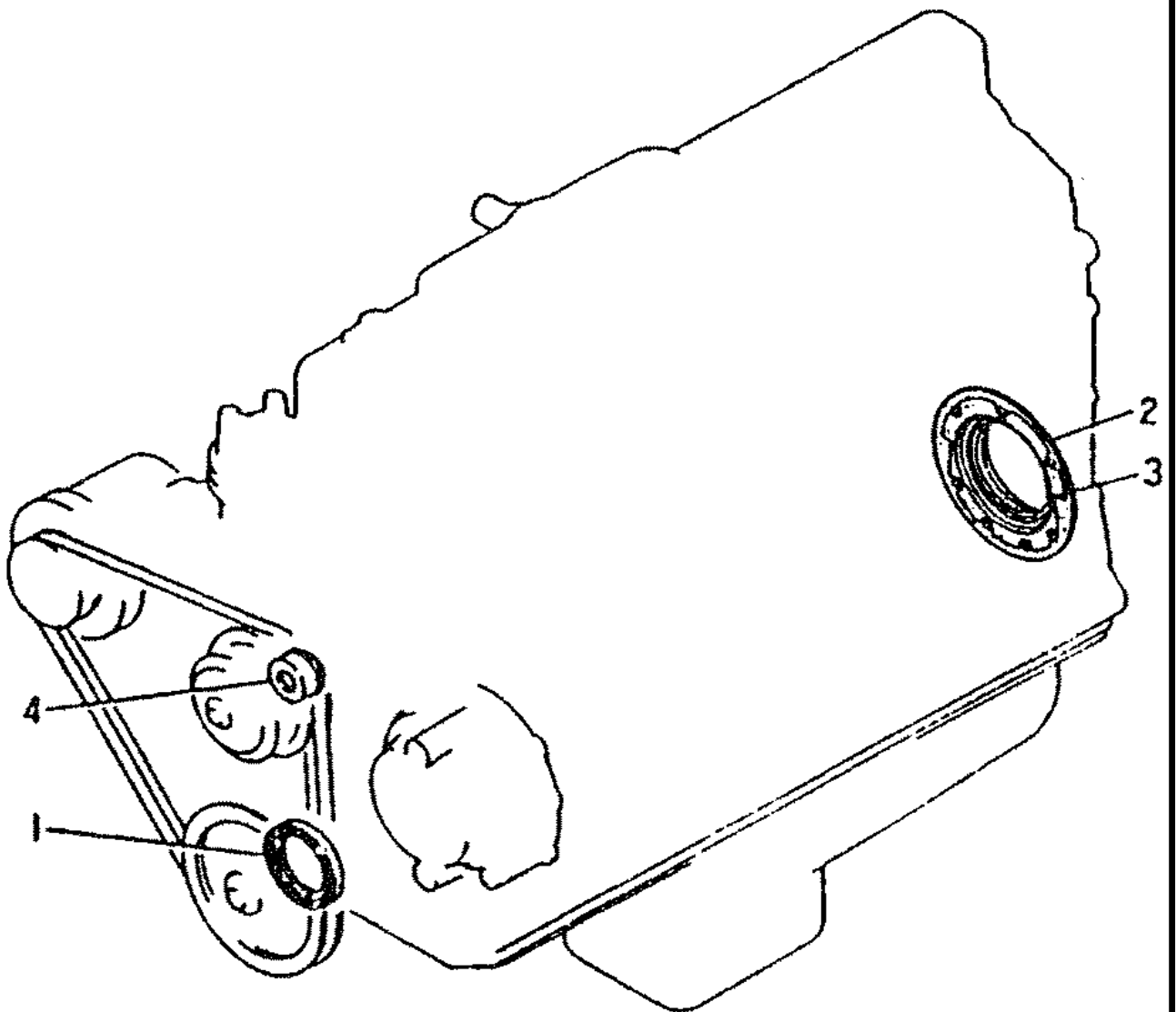
07-003

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ENGINE OIL SEAL KIT

450-870A



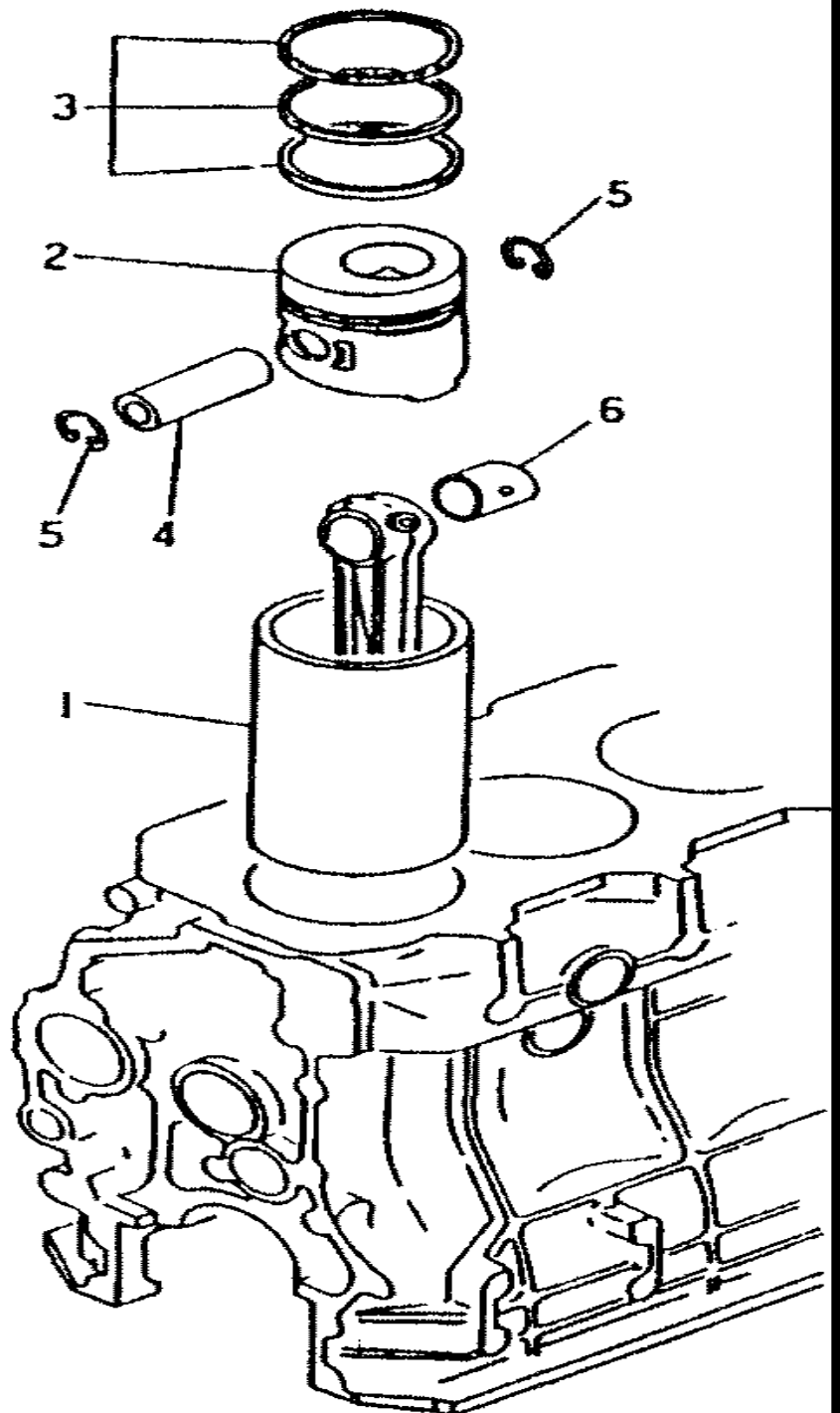
ENGINE OIL SEAL KIT

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1-4	VAME999026		1 SEAL KIT OILSEAL KIT W/SLEEVE
1	VAME024156		1 OIL SEAL OILSEAL, FR
2	VAME011755		1 OIL SEAL OILSEAL, RE
3	VAME021120		1 SLEEVE SLEEVE,CRANKSHAFT
4	VAMH034026		1 SEAL SEAL,UNIT WATER PUMP

6D31-T-MITSUBISHI DIESEL ENGINE

LINER & PISTON KIT

450-880



LINER & PISTON KIT

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1-6	VAME999993		3 LINER, ENGINE CYLIND SLEEVE & PISTON KIT2CYL 6D31T
1	VAME011626		6 SLEEVE CYLINDER SLEEVE,CYL STD
2	VAME012858		6 PISTON PISTON STD
3	VAME999812		6 LINER, ENGINE CYLIND PISTON RING SET,ICYL
4	VAME012009		6 PISTON PIN PIN PISTON
5	VAME012061		12 SNAP RING RING,SNAP
6	VAME012234		6 BUSHING BUSHING,CONN-ROD

6D31-T-MITSUBISHI DIESEL ENGINE

07-005

p1

8/2016

ENGINE GASKET KIT

ART

NOT

AVAILABLE

ENGINE GASKET KIT

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1-37	VAME999821		1 GASKET KIT GASKET KIT 6D33T
1	VAME011598		1 GASKET GAS KET, FR PLATE
4	VAME088179		1 GASKET GASKET,Oil. PAH
4A	VAME035018		1 FLEXIBLE HOSE GASKET,Oil. DRAIN 18
5	VAME011770		1 GASKET GASKET,GEAR CASE
6	VAME081541		1 CYLINDER HEAD GASKET GASKET,CYL HEAD
7	VAME081522		1 GASKET GASKET,ROCKCR COVER
9	VAME013031		6 GASKET GASKET,INLET MANIF
10	VAME013536		6 GASKET GASKET, EXII MANIF
11	VAME083528		2 GASKET GASKET,TURBO CHARGER
14	VAMF520007		1 O-RING O-RING,OIL LEVEL GAUGE, 11
14	VAMF520005		1 O-RING O-RING,OIL LEVEL GAUGE,10
15A	VAMF520416		1 O-RING O-RIHG,MATER PUMP 100
16	VAMF520016		4 O-RING O-RING,MATER PIPE 22.1
18A	VAME015420		1 GASKET GASKET,THERMOSTAT CASE
22	VAME084519		1 GASKET GASKET,OIL PUMP
26	VAME014532		1 GASKET GASKET,OIL STRAINER
28	VAMF660063		4 GASKET GASKET,OIL PIPE 10
29	VAME014532		1 GASKET GASKET,OIL PIPE TURBO
30	VAME014559		1 GASKET GASKET,OIL PIPE TURBO
32	VAMF520016		1 O-RING O-RIHG,OIL COOLER 22.1
32	VAMH035015		2 O-RING O-RIHG,OIL COOLER 22.1
33	VAMF520423		1 O-RING O-RING,I/P 135
35	VAME016564		GASKET GASKET,NOZZLE TIP T=4.7
35A	VAMF520010		6 O-RING O-RING 15
36	VAMH035015		4 O-RING GASKET.FUEL FILTER
37	VAME033679		1 GASKET GASKET,AIR HEATER
	VAME033848		1 GASKET W/NET

6D31-T-MITSUBISHI DIESEL ENGINE

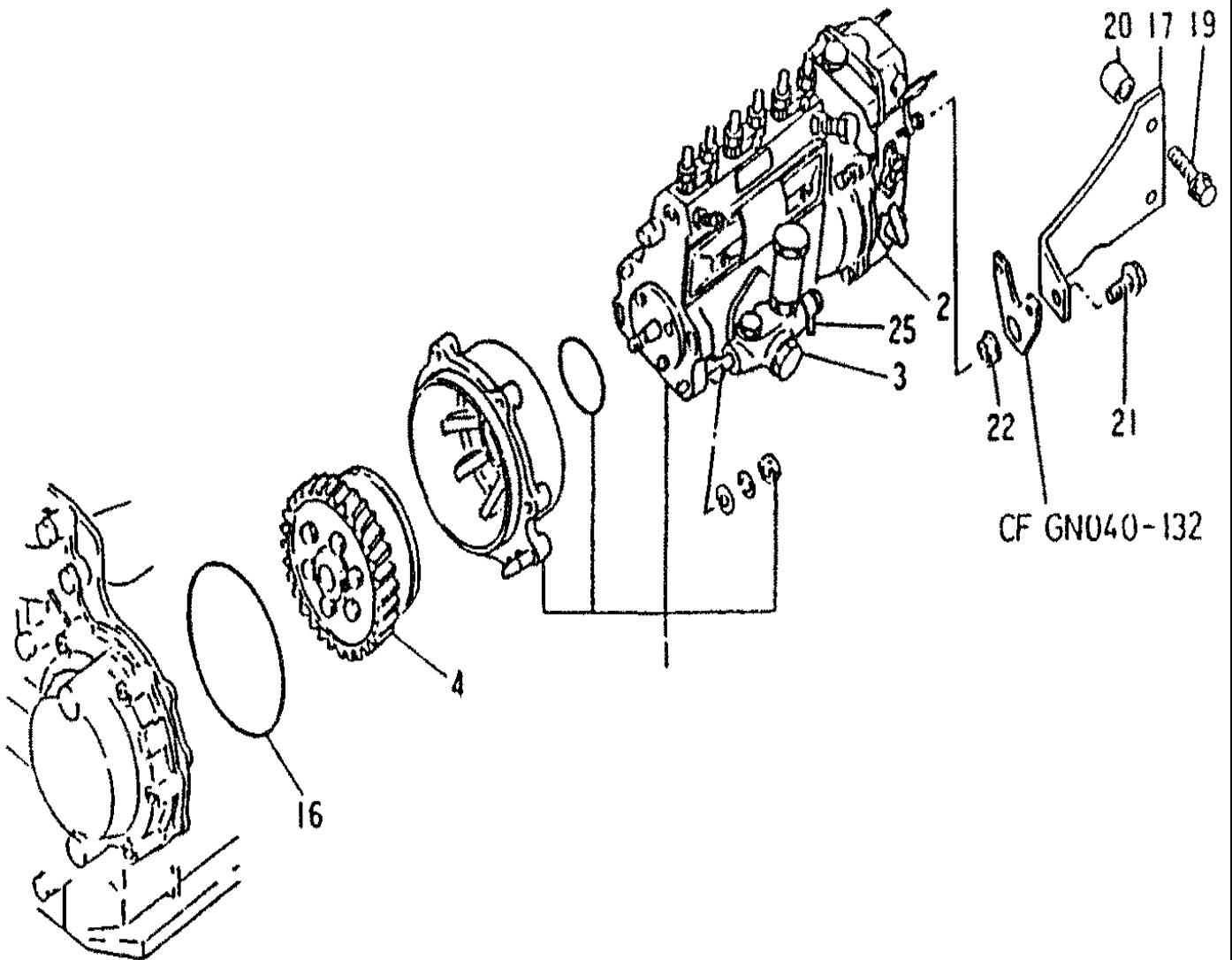
SECTION INDEX

FUEL SYSTEM

03-001	FUEL INJECTION PUMP GENERAL
03-002	INJECTION PUMP (INNER PARTS)
03-003	GOVERNOR (INNER PARTS)
03-004	FUEL FEED PUMP (INNER PARTS)
03-005	AUTOMATIC TIMER (INNER PARTS)
03-006	FUEL INJECTION PIPE
03-007	FUEL INJECTION NOZZLE
03-008	FUEL FILTER
03-009	FUEL HOSE
03-010	FUEL RETURN SYSTEM

FUEL INJECTION PUMP GENERAL

040-130A



CF GN040-132

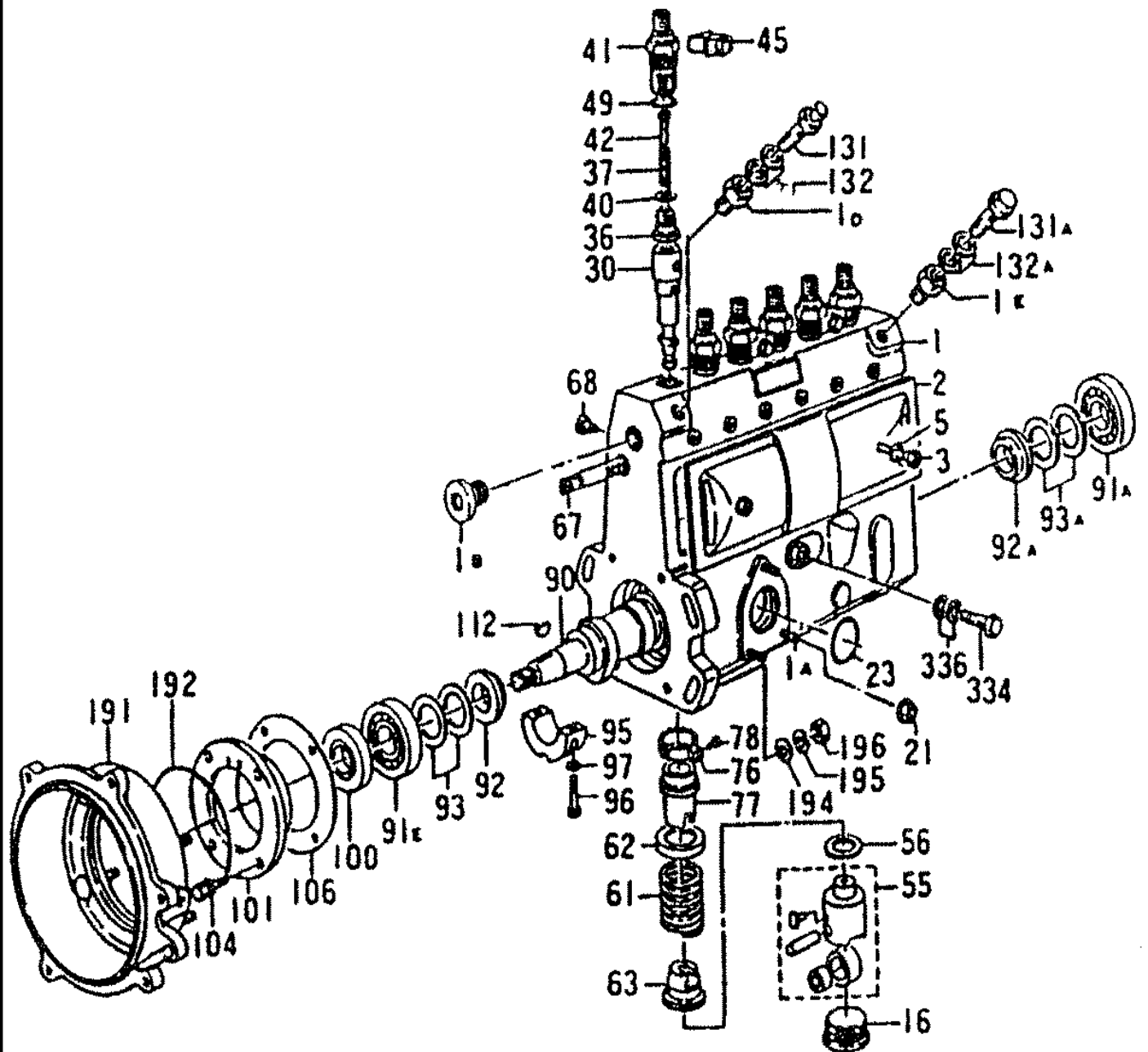
FUEL INJECTION PUMP GENERAL

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1-4	{VAME088300}		1 INJECTION PUMP GENERAL ASSY, FOR F4 ONLY
1-4	VAME088322		1 FUEL INJECTION PUMP INJECTION PUMP GENERAL ASSY, FOR M7 ONLY
1	NSS		1 NOT SOLD SEPARAT INJECTION PUMP ASSY A TYPE
2	{VAME723830}		1 GOVERNOR ASSY, RSV TYPE, FOR F4 ONLY
2	{VAME723423}		1 GOVERNOR GOVERNOR ASSY, RSV TYPE FOR M7 ONLY
3	VAME717104		1 PUMP FUEL FEED PUMP ASSY
4	VAME723275		1 TIMER AUTOMATIC TIMER ASSY, FOR F4 ONLY
4	VAME723275		1 TIMER AUTOMATIC TIMER ASSY, FOR M7 ONLY
16	VAMF520423		1 O-RING O-RING 135
17	VAME088152		1 U-BRACKET BRACKET, I/P A
19	VAMH000711		2 SCREW BOLT, FLANGE 10X40
20	VA3127516500		2 SPACER SPACER
21	VAMF140260		1 BOLT BOLT, FLANGE 10X25
22	VAMF434105		1 NUT NUT, FLANGE 10
25	VAMH037116		1 FLEXIBLE JOINT JOINT, SWIVEL

6D31-T-MITSUBISHI DIESEL ENGINE

INJECTION PUMP (INNER PARTS)

040-131A



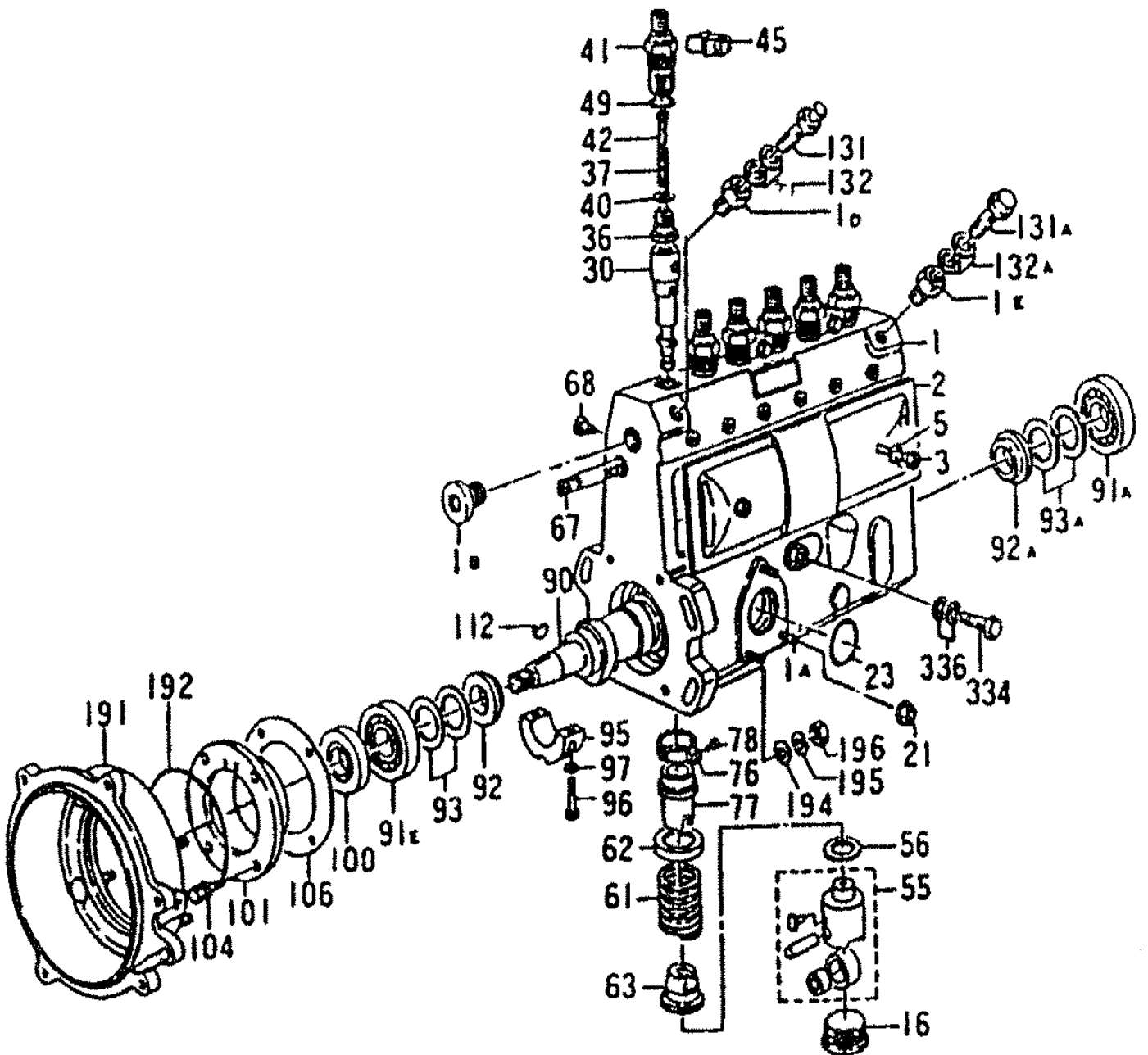
INJECTION PUMP (INNER PARTS)

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1-336	NSS		1 NOT SOLD SEPARAT INJECTION PUMP ASSY A TYPE
1	{VAME722463}		1 HOUSING HOUSING,PUMP
1A	{VAME705277}		3 STUD
1B	{VAME704235}		1 PLUG
1D	VAME704003		1 ADAPTER ADAPTER
1E	VAME704380		1 VALVE ADAPTER
2	VAME704318		1 COVER COVER
3	VAME704005		2 SCREW SCREW
5	VAME705151		2 GASKET GASKET
16	VAME704223		6 PLUG PLUG
21	VAME704489		3 NUT HUT
23	VAME705152		1 O-RING O-RIHG
30	VAME704285		6 PLUNGER PLUNGER ASSY
36	VAME704286		6 VALVE VALVE,DELIVERY
37	VAME704105		6 SPRING SPRING,DELIVERY/V
40	VAME704237		6 GASKET GASKET
41	VAME704287		6 HOLDER HOLDER DELIVERY / V
42	VAME704288		6 STOP STOPPER
45	VAME704013		3 LOCKING PLATE PLATE
49	VAME705358		6 O-RING O-RING
55	VAME704289		6 RING TAPPET ASSY
56	VAME705155		AR SHIM SHIM, T=0.30
56	VAME705156		AR SHIM SHIM,T=0.40
56	VAME705157		AR SHIM SHIM,T=0.50
56	VAME705158		AR SHIM SHIM,T=0.60
56	VAME705159		AR SHIM SHIM,T=0.70
56	VAME705160		AR SHIM SHIM,T=0.80
56	VAME705161		AR SHIM SHIM,T=0.90
56	VAME705162		AR SHIM SHIM,T=1.00
56	VAME705163		AR SHIM SHIM,T=1.10
56	VAME705164		AR SHIM SHIM,T=1.20
56	VAME705165		AR SHIM SHIM,T=1.30

6D31-T-MITSUBISHI DIESEL ENGINE

INJECTION PUMP (INNER PARTS)

040-131A



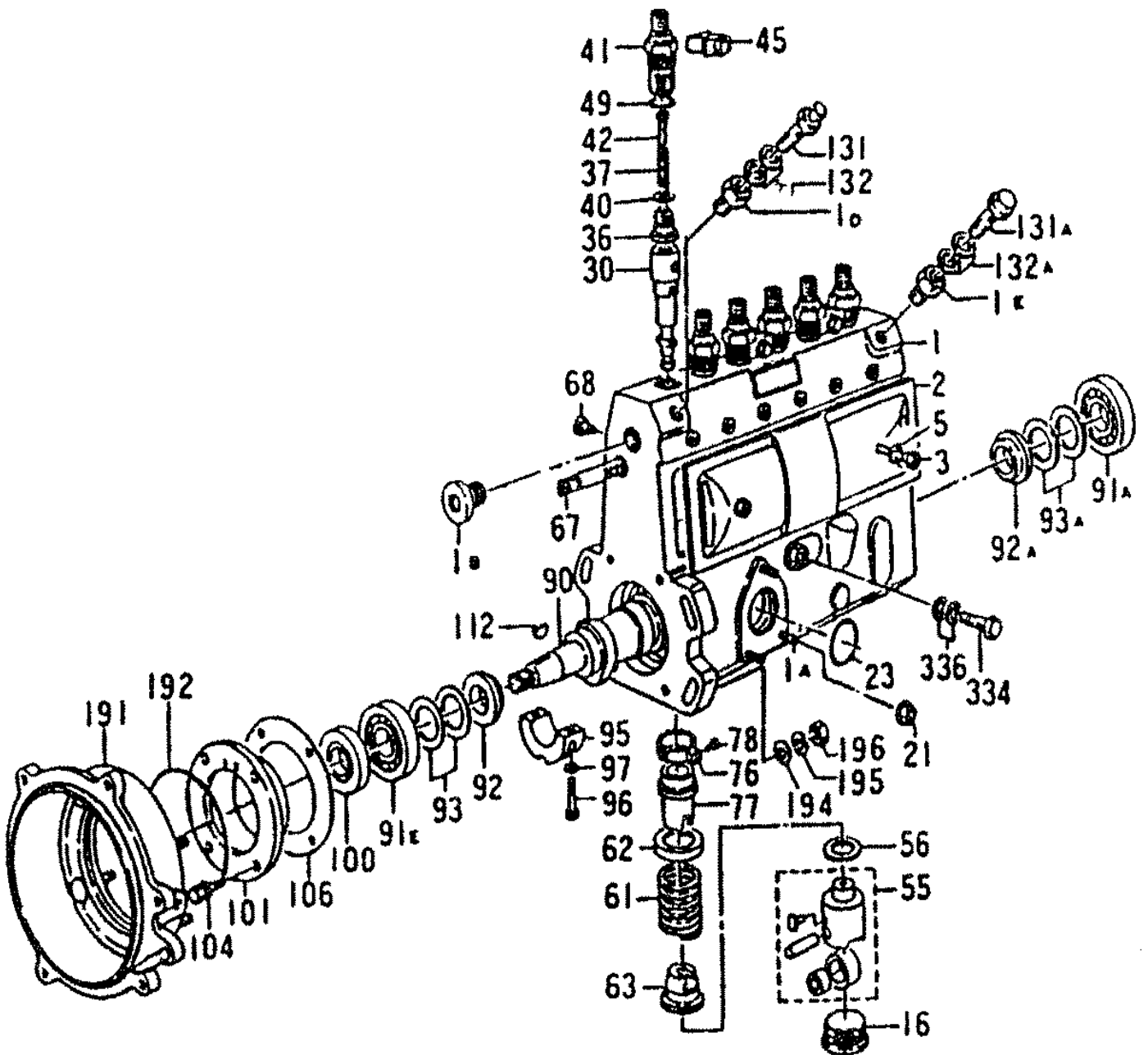
INJECTION PUMP (INNER PARTS)

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
56	VAME705166		AR SHIM SHIM,T=1.40
56	VAME705167		AR SHIM SHIM,T=0.55
56	VAME705168		AR SHIM SHIM,T=0.65
56	VAME705169		AR SHIM SHIM,T=0.75
56	VAME705170		AR SHIM SHIM,T=0.85
56	VAME705171		AR SHIM SHIM,T=0.95
56	VAME705172		AR SHIM SHIM,T=1.05
56	VAME705173		AR SHIM SHIM,T=1.15
56	VAME705174		AR SHIM SHIM,T=1. 25
56	VAME705175		AR SHIM SHIM,T=1. 50
56	VAME705176		AR SHIM SHIM,T=1.60
56	VAME705177		AR SHIM SHIM,T = 0. 20
56	VAME705178		AR SHIM SHIM,T=0.25
56	VAME705179		AR SHIM SHIM,T=0..35
56	VAME705180		AR SHIM SHIM,T=0.45
56	VAME705181		AR SHIM SHIM,T=1.35
56	VAME705182		AR SHIM SHIM,T= 1.45
56	VAME705183		AR SHIM SHIM,T=1.55
61	VAME704294		6 SPRING SPRING,PLUNGER
62	VAME704110		6 SEAT SEAT,SPG UPPER
63	VAME704295		6 SEAT SEAT.SPG LOWER
67	VAME704021		1 RACK RACK,CONTROL
68	VAME704022		1 SCREW SCREW,RACK STOP
76	VAME704023		6 PINION PINION
77	VAME704112		6 SLEEVE SLEEVE,COKTROL
78	VAME704025		6 SCREW SCREW,PINION CLAMP
90	VAME722365		1 CAMSHAFT CAMSHAFT
91A	VAME705186		1 BEARING BEARING
91A	VAME705187		AR BEARING BEARING
91E	VAME705184		1 BEARING BEARING
91E	VAME705185		AR BEARING BEARING
92	VAME704028		1 RING RING

6D31-T-MITSUBISHI DIESEL ENGINE

INJECTION PUMP (INNER PARTS)

040-131A



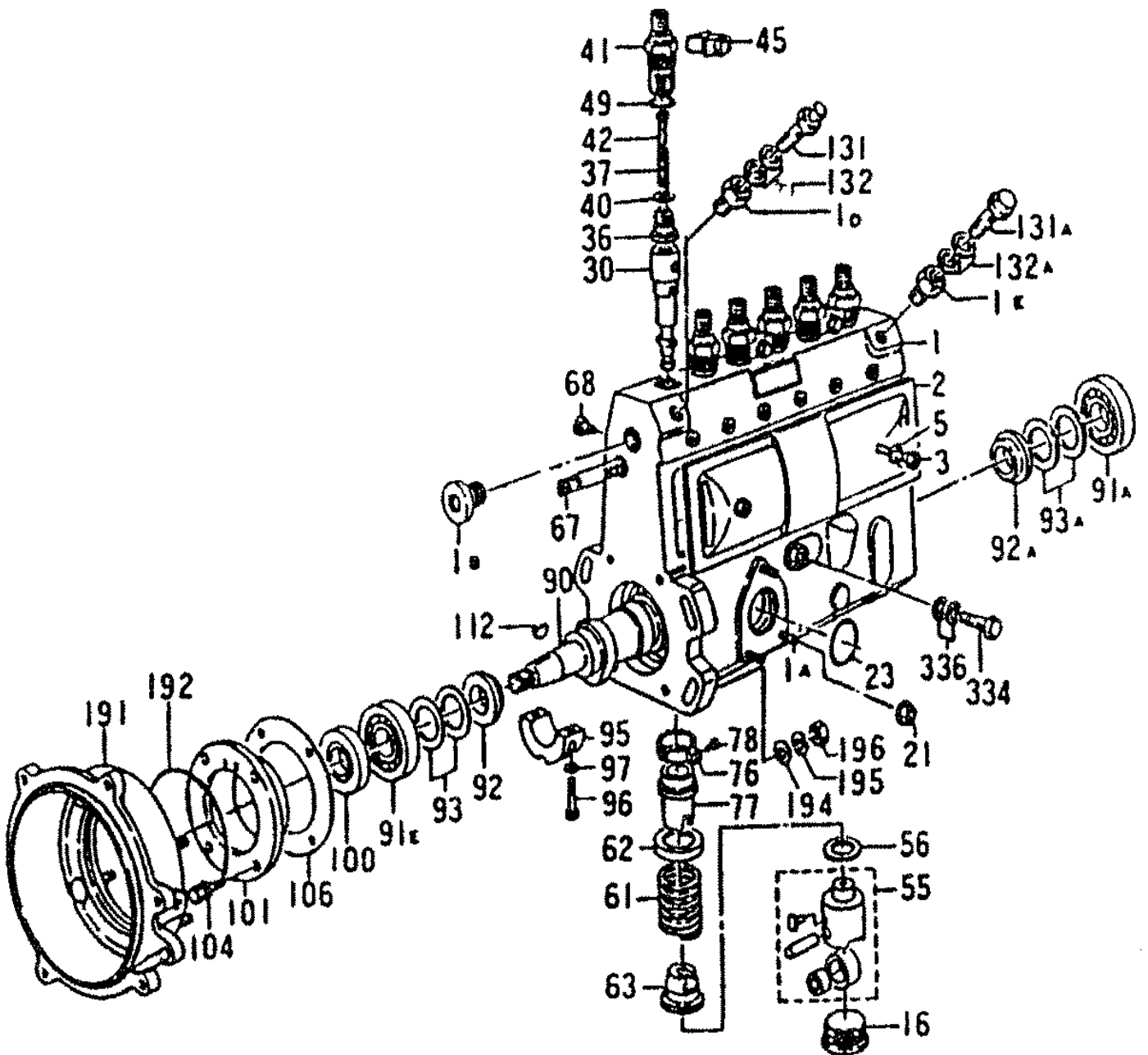
INJECTION PUMP (INNER PARTS)

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
92A	VAME704137		1 RING RING
93	VAME705200		AR SHIM SHIM, T=0.10
93	VAME705201		AR SHIM SHIM, T=0.12
93	VAME705202		AR SHIM SHIM, T=0.14
93	VAME705203		AR SHIM SHIM, T=0.16
93	VAME705204		AR SHIM SHIM, T=0.18
93	VAME705205		AR SHIM SHIM, T=0.50
93	VAME705206		AR SHIM SHIM, T=0.30
93	VAME705207		AR SHIM SHIM, T=1.00
93A	VAME705189		AR SHIM SHIM, T=0.10
93A	VAME705190		AR SHIM SHIM, T=0.12
93A	VAME705191		AR SHIM SHIM, T=0.14
93A	VAME705192		AR SHIM SHIM, T=0.14
93A	VAME705193		AR SHIM SHIM, T=0.18
93A	VAME705194		AR SHIM SHIM, T=0.50
93A	VAME705195		AR SHIM SHIM, T=1.00
93A	VAME705196		AR SHIM SHIM, T=0.30
93A	VAME705197		AR SHIM SHIM, T=0.70
93A	VAME705198		AR SHIM SHIM, T=1.40
95	VAME704350		1 BEARING SEARING, CTR
96	VAME705208		2 SCREW SCREW
97	VAME705209		2 GASKET GASKET
100	VAME705210		1 OIL SEAL OILSEAL
101	VAME704115		1 COVER COVER, BRG
104	VAME705211		4 BOLT BOLT
106	VAME704116		1 GASKET GASKET
112	{VAME705214}		1 KEY, WOODRUFF
131	VAME704298		1 STD INLET VALVE STD ENGINE INLET VALVE VALVE, OVER FLOW
131A	VAME717882		1 BOLT BOLT, EYE
132	VA3126106400		2 GASKET
132A	VA3126106400		1 GASKET

6D31-T-MITSUBISHI DIESEL ENGINE

INJECTION PUMP (INNER PARTS)

040-131A



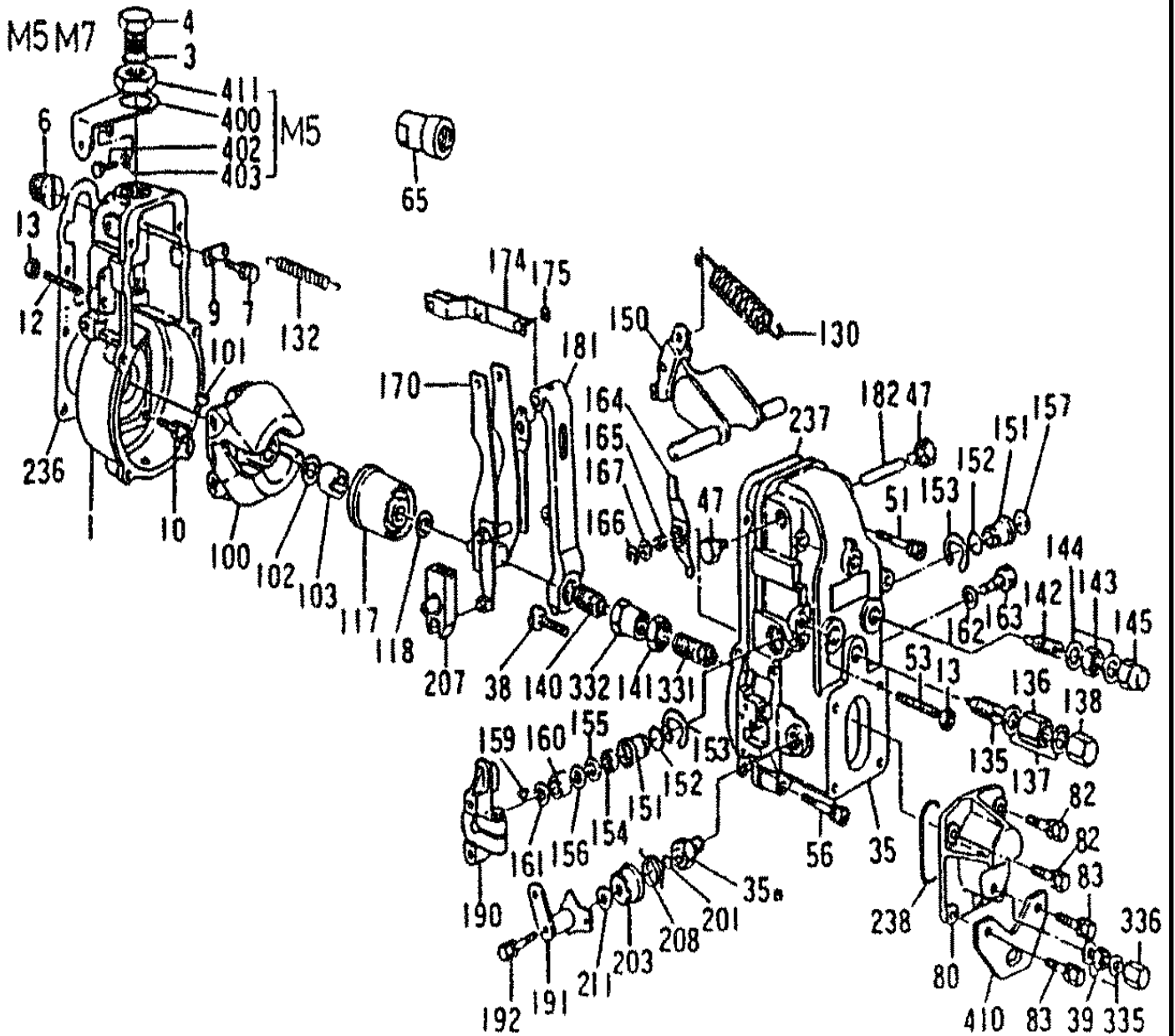
INJECTION PUMP (INNER PARTS)

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
191	VAME723443		1 BRACKET BRACKET
192	VAME705219		1 O-RING O-RING
194	VAME705332		4 WASHER WASHER
195	{VAME705221}		4 WASHER,SPG
196	{VAME717958}		4 NUT
334	VAME705223		1 BOLT BOLT,EYE
336	VA0375124001		2 GASKET GASKET

6D31-T-MITSUBISHI DIESEL ENGINE

GOVERNOR (INNER PARTS)

040-132A



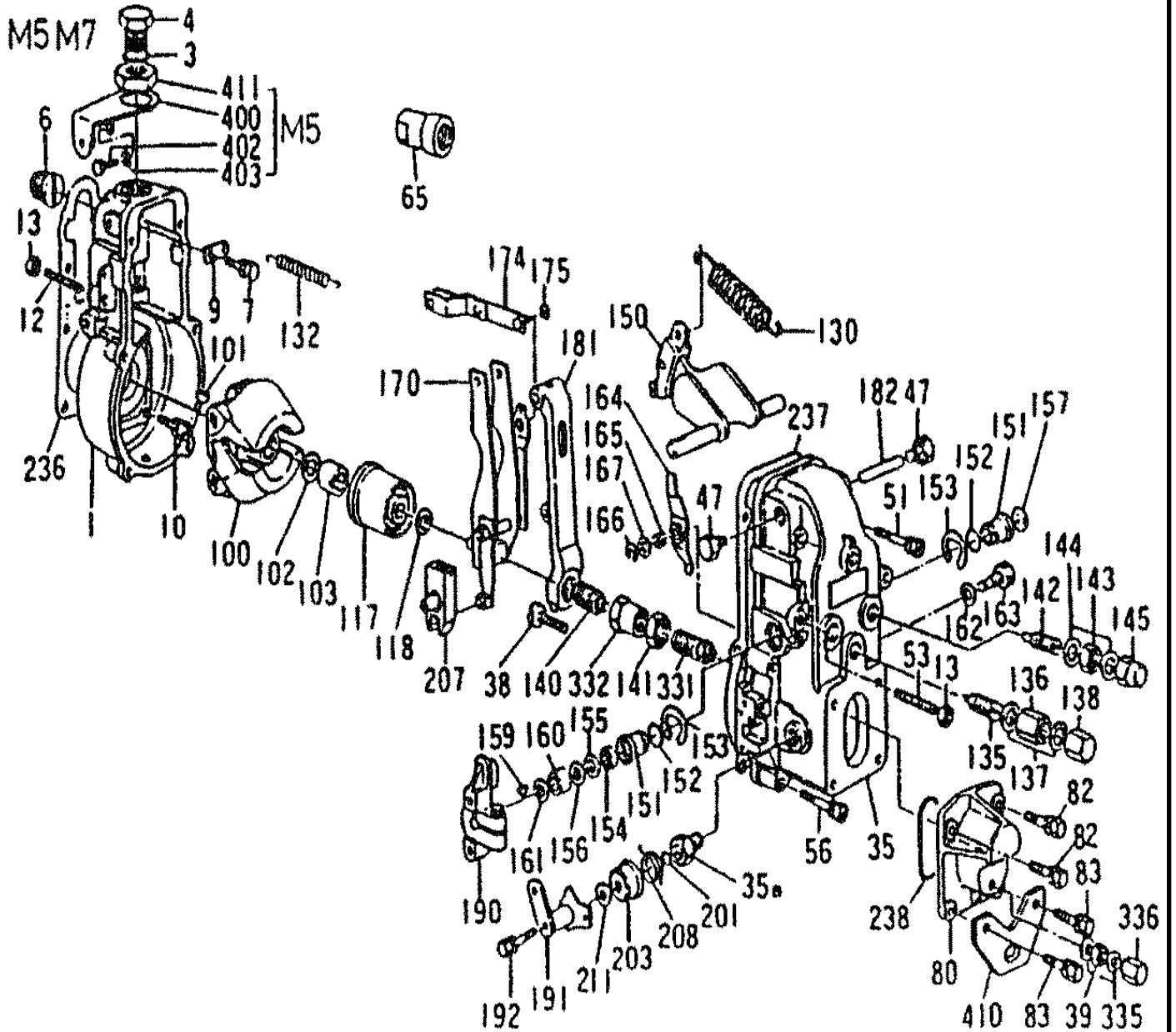
GOVERNOR (INNER PARTS)

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1-411	{VAME723423}		1 GOVERNOR GOVERNOR ASSY,RSV TYPE, FOR M5 ONLY
1-410	{VAME723830}		1 GOVERNOR ASSY,RSV TYPE, FOR M7 ONLY
1	{VAME701712}		1 HOUSING,GOV FOR M7 ONLY
1	{VAME723444}		1 HOUSING,GOV FOR M5 ONLY
3	VAME705361		1 O-RING O-RIHG
4	VAME704666		1 PLUG PLUG ,FOR M7 ONLY
4	VAME723180		1 PLUG PLUG ,FOR M5 ONLY
6	VAME704502		1 ACTUATOR ADAPTER
7	VAME705224		1 BOLT BOLT
9	{VAME704654}		1 PLATE
10	VAME705284		6 BOLT BOLT
12	VAME704655		1 SCREW SCREW
13	{VAME701505}		2 NUT,LOCK
35	VAME716093		1 COVER COVER,GOV
35B	VAME704658		1 BUSHING BUSHING
36	{VAME722812}		1 SCREW
39	{VAME705227}		1 NUT
47	VAME704568		2 PLUG PLUG
51	VAME705321		2 BOLT BOLT
53	VAME704662		1 SCREW SCREW
56	VAME705296		4 BOLT BOLT
65	VAME716097		1 LIMIT SWITCH LIMITER
80	{VAME722843}		1 COVER
82	{VAME705392}		2 BOLT
83	VAME717714		2 BOLT BOLT
100	VAME704945		1 FLYWHEEL FLYWEIGHT ASSY
101	VAME705233		1 KEY KEY,WOODRUFF
102	VAME705234		1 WASHER WASHER,SPG
103	VAME705325		1 NUT NUT
117	VAME704517		1 SLEEVE LEEVE ASSY
118	VAME705236		AR SHIM SHIM, T = 0.2

6D31-T-MITSUBISHI DIESEL ENGINE

GOVERNOR (INNER PARTS)

040-132A



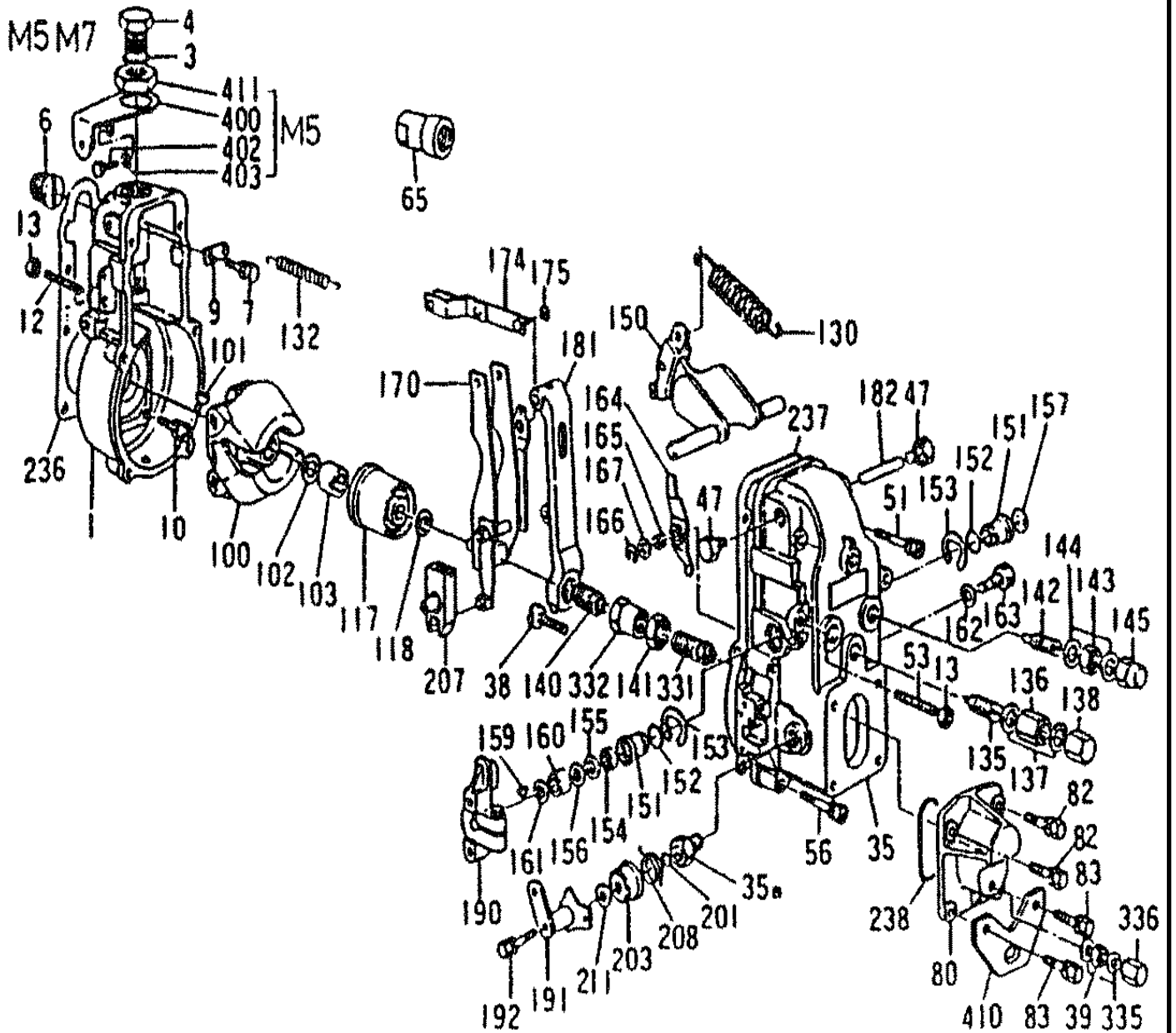
GOVERNOR (INNER PARTS)

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
118	VAME705237		AR SHIM SHIM,T=0.3
118	VAME705238		AR SHIM SHIM,T = 0.4
118	VAME705239		AR SHIM SHIM,T = 1.0
118	VAME717875		AR SHIM SHIM,T = 0 .5
118	VAME717876		AR SHIM SHIM,T = 1.5
130	{VAME704729}		1 SPRING,GOV
132	VAME716095		1 SPRING SPRING,START
135	{VAME704906}		1 CAPSULE,SPG, FOR M5 ONLY
135	{VAME716556}		1 CAPSULE,SPG,FOR M7 ONLY
136	VAME704669		1 NUT NUT
137	VAME705218		2 GASKET GASKET
138	{VAME701510}		1 NUT,CAP
140	{VAME722799}		1 CAPSULE,SPG, FOR M5 ONLY
140	{VAME722849}		1 CAPSULE,SPG,FOR M7 ONLY
141	{VAME716705}		1 NUT
142	{VAME704908}		1 CAPSULE.SPG
143	{VAME705395}		1 NUT
144	VAME705396		2 GASKET GASKET
145	{VAME704733}		1 NUT,CAP
150	VAME704751		1 LEVER LEVER,SWIVEL
151	VAME701981		2 SWITCH BUSHING
152	VAME705340		1 O-RING O-RING
153	VAME705381		2 SNAP RING RING,SNAP
154	VAME705333		1 OIL SEAL OILSEAL
155	VAME705334		1 SHIM
156	VAME705384		AR GASKET SHIM
157	VAME705338		1 PLUG PLUG
159	VAME705248		1 KEY KEY,WOODRUFF
160	VAME704924		1 COLLAR COLLAR
161	VAME704608		AR WASHER WASHER
162	VAME705397		1 GASKET GASKET
163	{VAME704735}		1 BOLT

6D31-T-MITSUBISHI DIESEL ENGINE

GOVERNOR (INNER PARTS)

040-132A



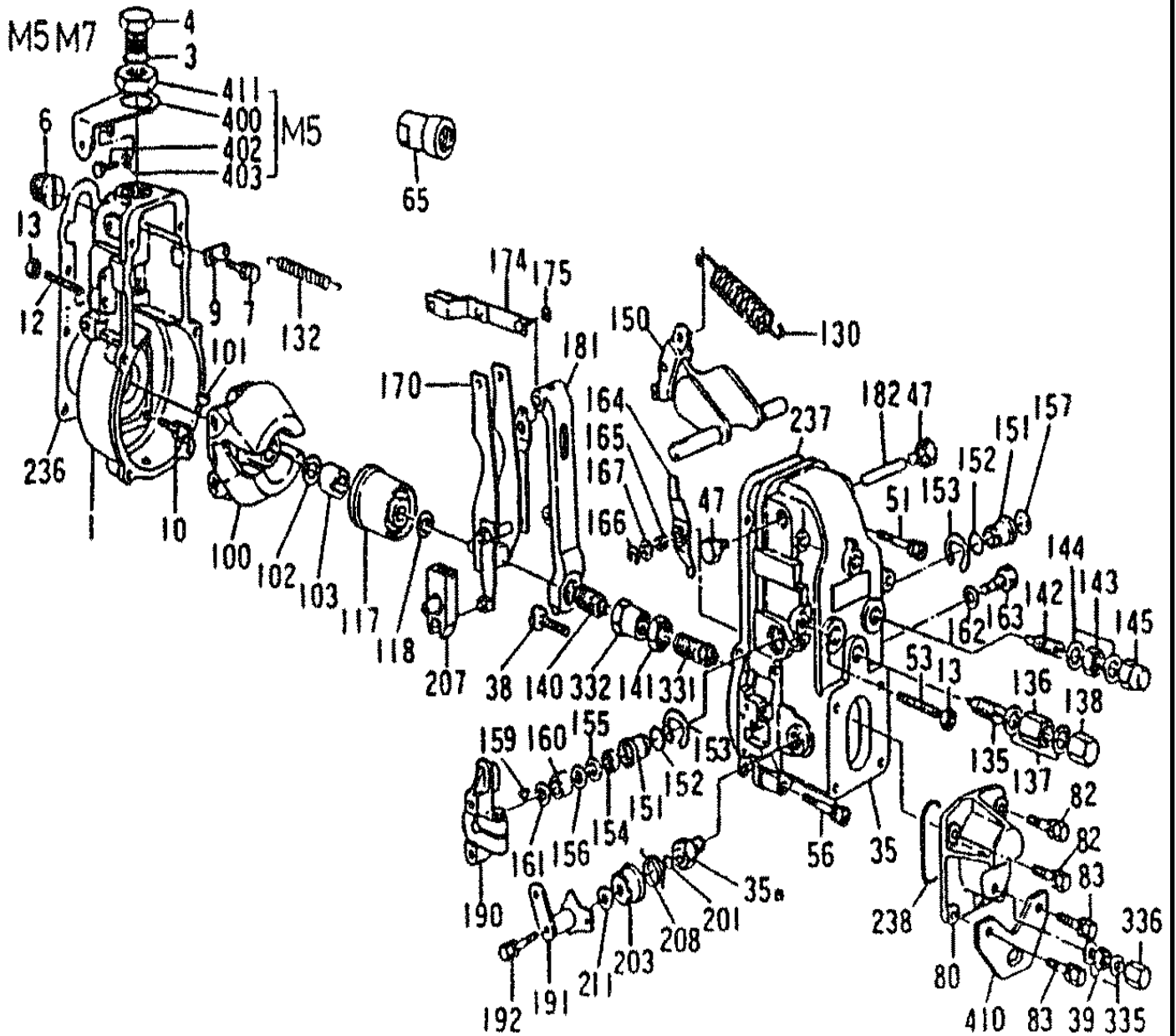
GOVERNOR (INNER PARTS)

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
164	VAME716106		1 LEVER LEVER
165	VAME716101		1 SPRING SPRIHG
166	VAME705398		1 RING RING,SNAP
167	{VAME705399}		1 MASHER
170	{VAME7E3064}		1 GUIDE LEVER ASSY
174	{VAME704674}		1 LINK
175	VAME705249		1 SNAP RING RING,SNAP
181	{VAME716103}		1 LEVER,TENSION
182	VAME704676		1 PIN PIN,TENSION LEVER
190	VAME704740		1 LEVER LEVER,CONTROL
191	VAME723459		1 LEVER LEVER,STOP
192	VAME717700		1 BOLT BOLJ
201	VAME705385		1 PISTON RING SET O-RING
203	VAME704681		1 CAP CAP
207	VAME716106		1 LEVER LEVER ASSY
208	VAME717039		1 SPRING SPRIHG
211	VAME717813		AR SHIM SHIM, T=0.20
211	{VAME717814}		AR SHIM,T= 0.25
211	{VAME717815}		AR SHIM,T=0.30
211	{VAME717816}		AR SHIM,T=0.35
211	{VAME717817}		AR SHIM,T=0.40
211	{VAME717779}		AR SHIM,T=0.50
236	VAME704542		1 GASKET GASKET
237	VAME704618		1 GASKET GASKET
238	VAME705342		1 O-RING O-RIHG
331	{VAME722845}		2 CAPSULE.SPG
332	{VAME705339}		1 NUT
335	VAME717738		2 GASKET GASKET
336	VAME704757		1 NUT NUT,CAP
400	{VAME723464}		1 BRACKET ,FOR M5 ONLY
402	{VAME723465}		1 BOLT,FOR M5 ONLY
403	{VAME705378}		1 WASHER,SPG,FOR M5 ONLY

6D31-T-MITSUBISHI DIESEL ENGINE

GOVERNOR (INNER PARTS)

040-132A

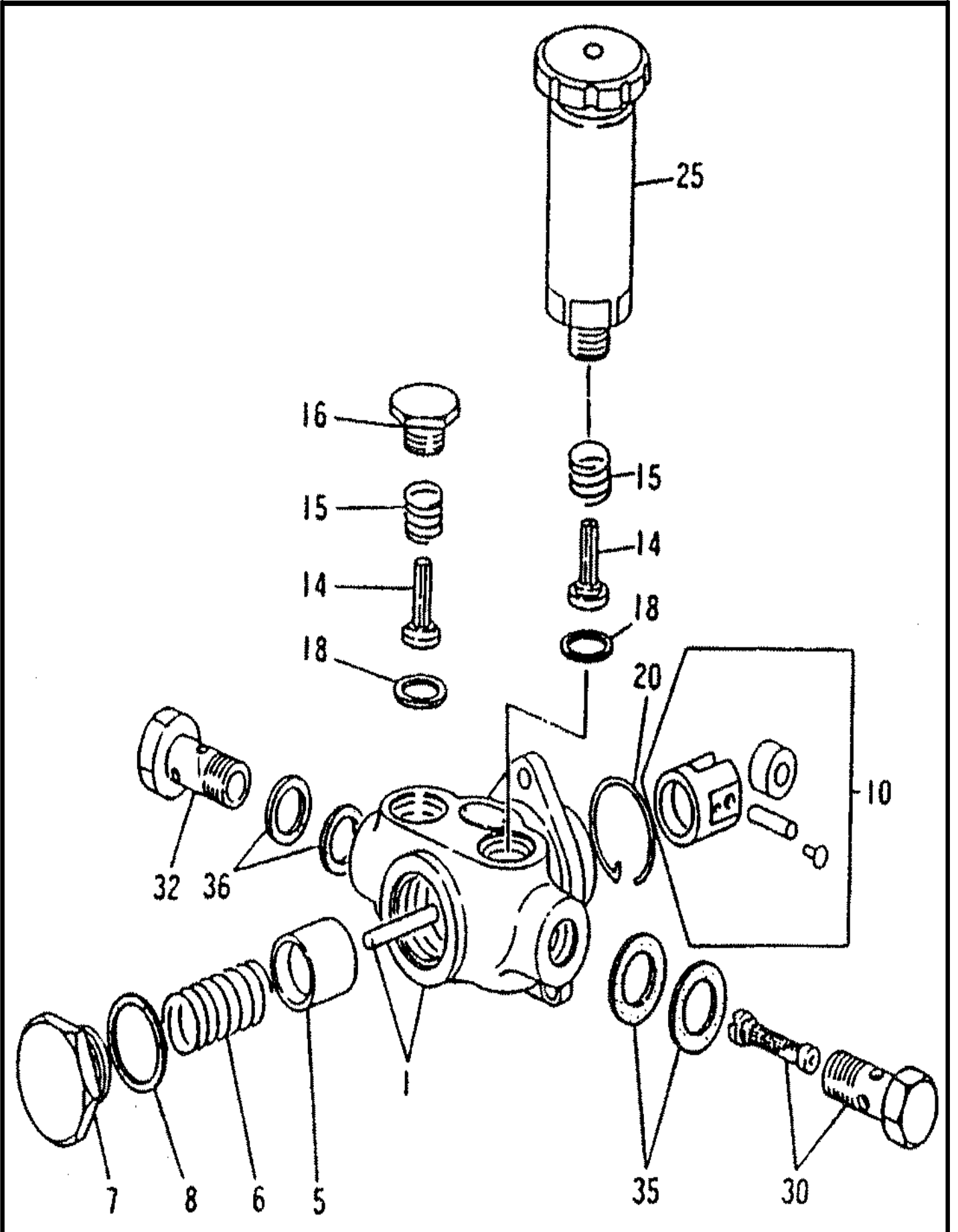


GOVERNOR (INNER PARTS)

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
410	{VAME088153}		1 BRACKET
411	{VAME723176}		1 NUT, FOR M5 ONLY

6D31-T-MITSUBISHI DIESEL ENGINE

FUEL FEED PUMP (INNER PARTS)



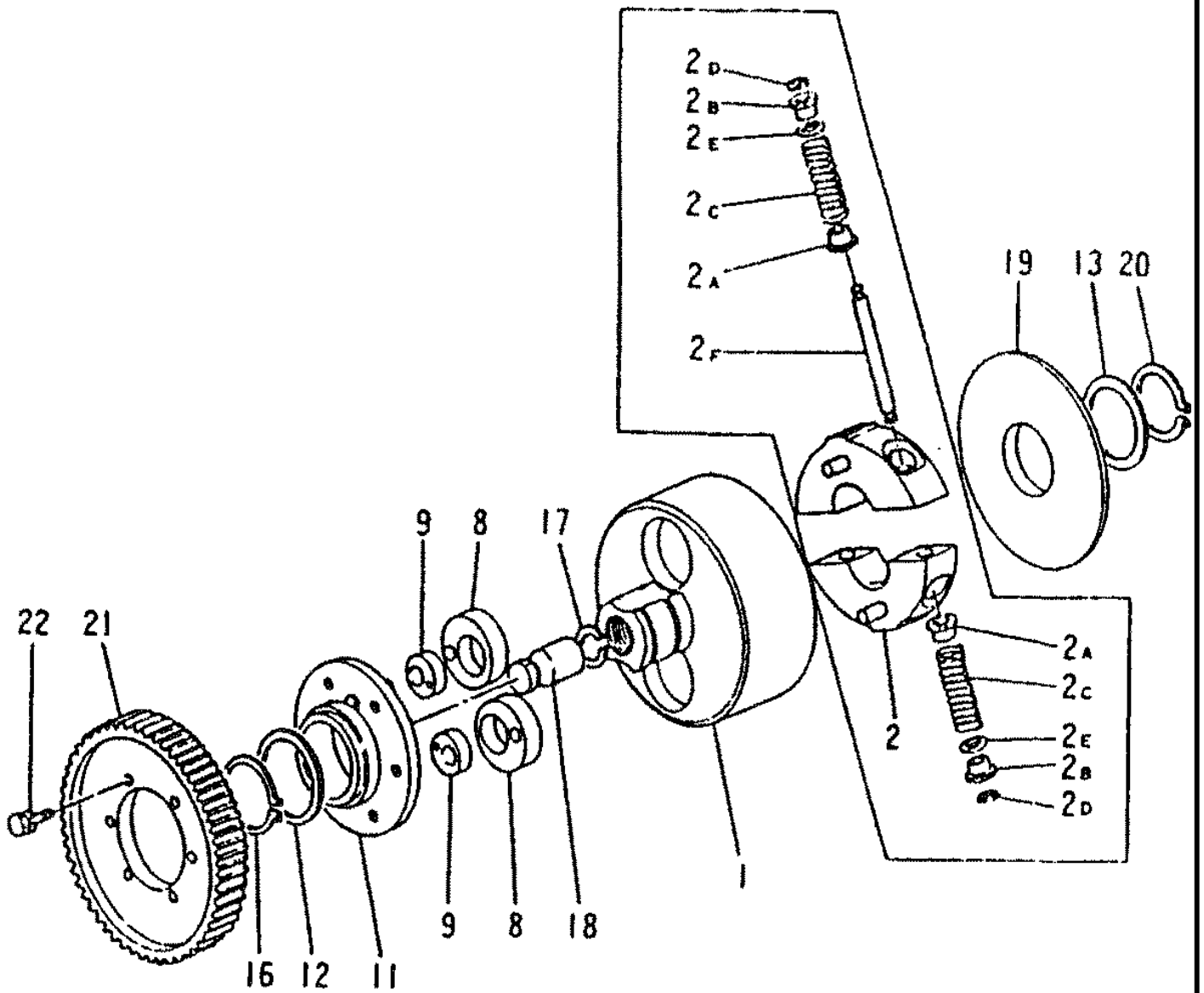
FUEL FEED PUMP (INNER PARTS)

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1-36	VAME717104		1 PUMP FUEL FEED PUMP ASSY
1	{VAME716556}		1 HOUSING,FEED PUMP
5	VAME705020		1 PISTON PISTON
6	VAME705021		1 SPRING SPRING,PISTON
7	VAME705022		1 PLUG PLUG
8	VAME705275		1 GASKET GASKET
10	VAME705099		1 TAPPET TAPPET
11	VAME705027		2 VALVE VALVE
12	VAME705028		2 SPRING SPRING,CHECK/V
16	VAME705029		1 PLUG PLUG
18	VAME705276		2 PACKING GASKET
20	VAME705030		1 RING RINGTSNAP
25	VAME717630		1 LUBE PUMP PUMP,PRIMING
30	VAME717659		1 BOLT BOLT,EYE
32	VAME717882		1 BOLT BOLT,EYE
35	VA3126106400		2 GASKET GASKET
36	VA3126106400		2 GASKET GASKET

6D31-T-MITSUBISHI DIESEL ENGINE

AUTOMATIC TIMER (INNER PARTS)

040-134A



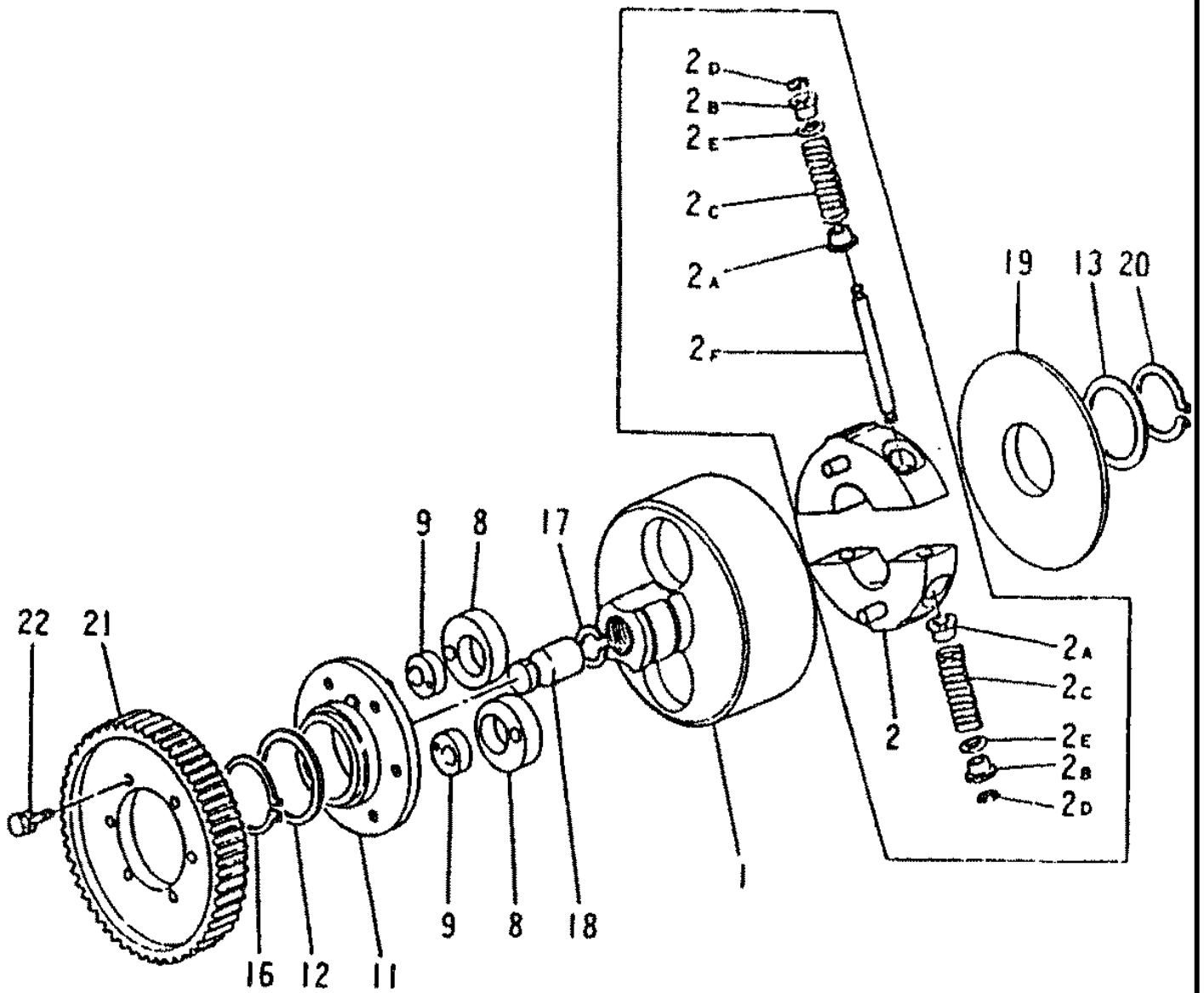
AUTOMATIC TIMER (INNER PARTS)

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1-22	VAME723275		1 TIMER AUTOMATIC TIMER ASSY
1	{VAME717660}		1 FLANGE,TIMING
2-2F	VAME722495		1 FLYWHEEL FLYWEIGHT ASSY
2	{VAME722317}		2 FLYWEIGHT
2A	{VAME717663}		4 SEAT,SPG
2B	{VAME717664}		4 SEAT,SPG
2C	{VAME722494}		4 SPRING, TifiEK
2D	{VAME717665}		AR RING,SPG
2E	{VAME717666}		AR SHIM,T= 0.1
2E	{VAME717667}		AR SHIM,T= 0.2
2E	{VAME717668}		AR SHIM,T= 0.3
2E	{VAME717669}		AR SHIM,T= 0.1
2E	{VAME717670}		AR SHIM,T= 0.5
2E	{VAME717671}		AR SHIM,T= 0.6
2E	{VAME717672}		AR SHIM,T= 0.7
2E	{VAME717673}		AR SHIM,T= 0.8
2E	{VAME717674}		AR SHIM,T=0.9
2E	{VAME717675}		AR SHIM,T= 1.0
2F	{VAME717676}		2 PIN.PILOT
8	{VAME716675}		2 CAM,ECCENTRIC
9	{VAME716676}		2 CAM,ECCENTRIC
11	{VAME717679}		1 FLANGE
12	{VAME717680}		AR SHIM,T=0.10
12	{VAME717681}		AR SHIM,T=0.12
12	{VAME717682}		AR SHIM,T= 0.14
12	{VAME7176S3}		AR SHIM,T=0.16
12	{VAME717684}		AR SHIM,T=0.12
12	{VAME717685}		AR SHIM,T=0.90
12	{VAME717686}		AR SHIM,T=1.10
12	{VAME717687}		AR SHIM,T=1.30
12	{VAME717688}		AR SHIM,T=1.50
12	{VAME717689}		AR SHIM,T=1.70

6D31-T-MITSUBISHI DIESEL ENGINE

AUTOMATIC TIMER (INNER PARTS)

040-134A



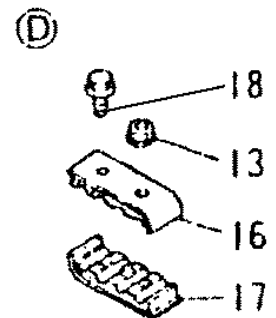
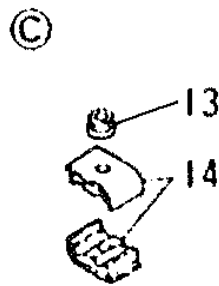
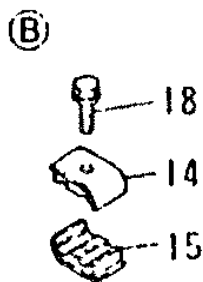
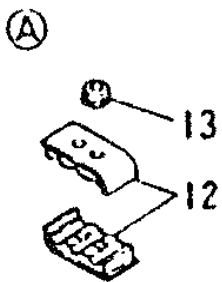
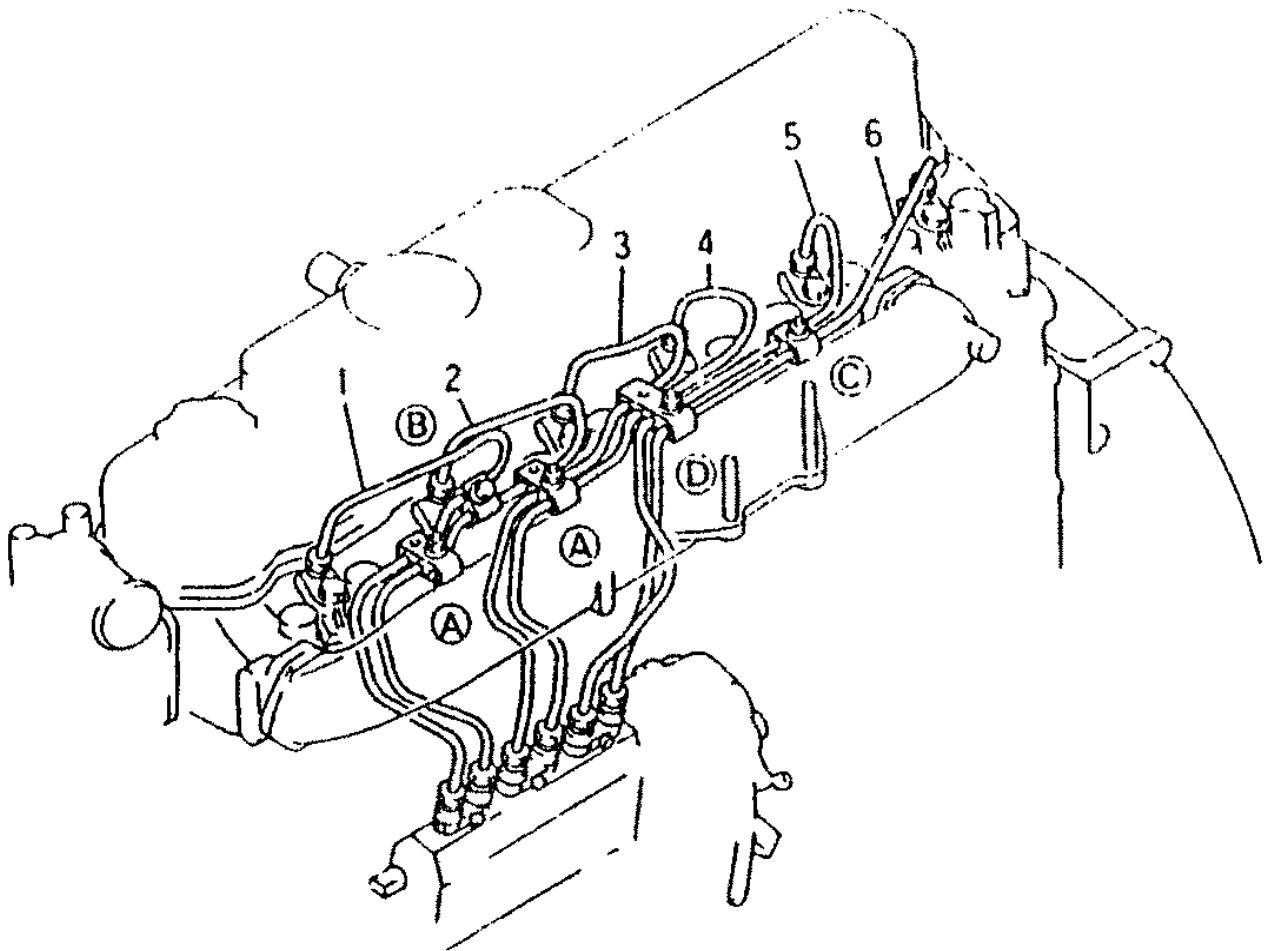
AUTOMATIC TIMER (INNER PARTS)

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1-3	{VAME717680}		AR SHIM,T=0.10
1-3	{VAME717681}		AR SHIM,T=0.12
1-3	{VAME717682}		AR SHIM,T=0.14
1-3	{VAME717683}		AR SHIM,T=0.16
1-3	{VAME717684}		AR SHIM,T=0.18
1-3	{VAME717685}		AR SHIM,T=0.90
1-3	{VAME717686}		AR SHIM,T=1.10
1-3	{VAME717687}		AR SHIM,T=1.30
1-3	{VAME717488}		AR SHIM,T=1.50
1-3	{VAME717689}		AR SHIM,T=1.70
16	VAME717959		1 SNAP RING RING,SNAP
17	{VAME722171}		1 WASHER,SPG
18	{VAME704482}		1 NUT
19	{VAME717690}		1 PLATE
20	VAME717959		1 SNAP RING RING,SNAP
21	VAME716674		1 GEAR GEAR
22	{VAME717960}		6 BOLT

6D31-T-MITSUBISHI DIESEL ENGINE

FUEL INJECTION PIPE

040-140A



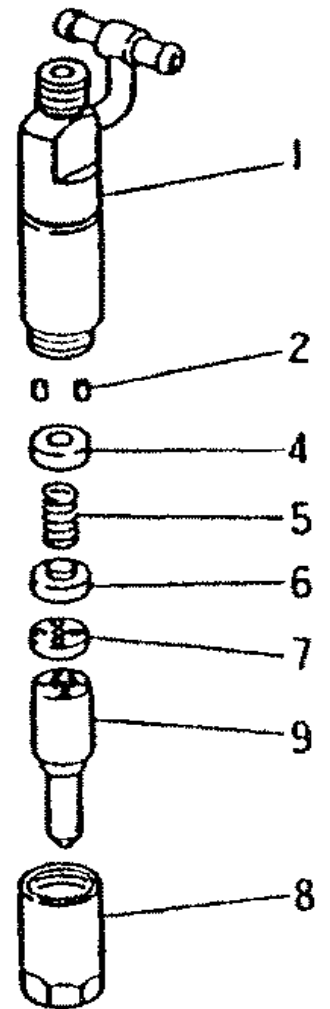
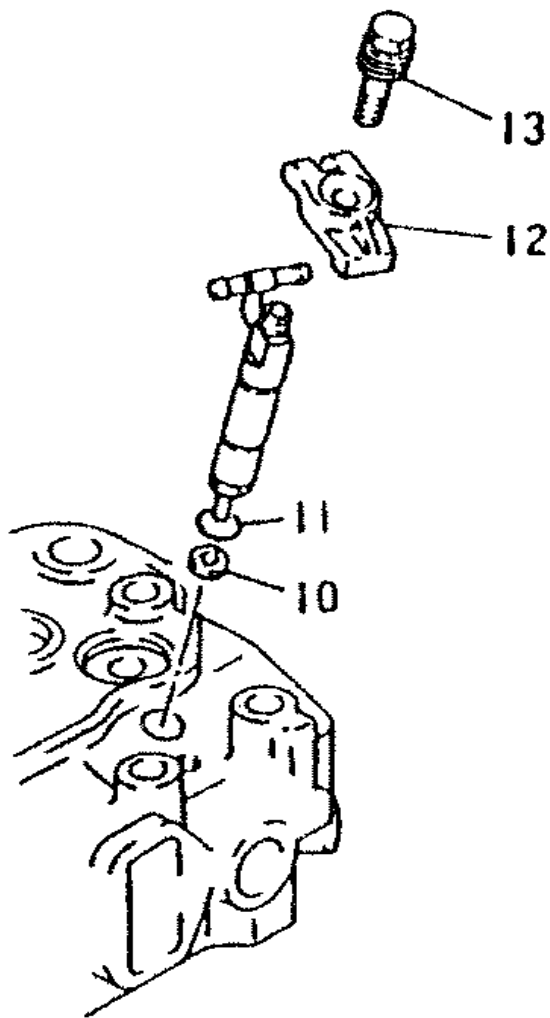
FUEL INJECTION PIPE

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1	VAME018174		1 PIPE PIPE,INJECTION NO.1
2	VAME018175		1 PIPE PIPE,INJECTION NO.2
3	VAME018176		1 PIPE PIPE,INJECTION NO.3
4	VAME018177		1 PIPE PIPE,INJECTION NO.4
5	VAME018178		1 PIPE PIPE,INJECTION NO.5
6	VAME018179		1 PIPE PIPE,INJECTION NO.6
12	VAMH021250		4 CLAMP CLAMP A
13	VAMF434103		4 NUT HUT,FLANGE 6
14	VAMH020258		1 CLAMP CLAMP
15	VAMH020259		1 CLAMP CLAMP
16	VAMH020260		1 CLAMP CLAMP
17	VAMH021253		1 CLAMP CLAMP
18	VAMF240029		2 SCREW BOLT,W/WSR 6X25

6D31-T-MITSUBISHI DIESEL ENGINE

FUEL INJECTION NOZZLE

040-160A



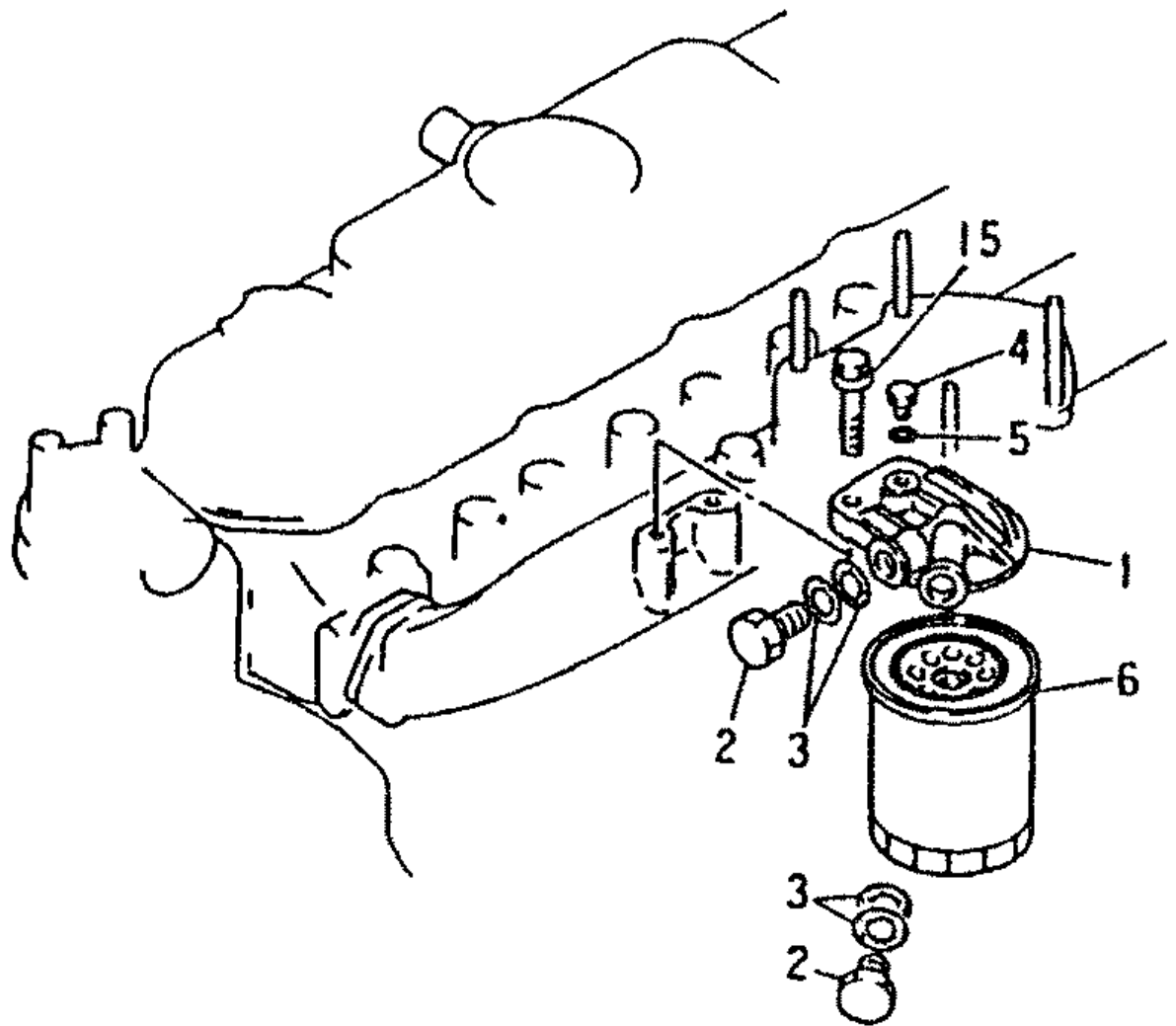
FUEL INJECTION NOZZLE

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1-9	VAME080082		6 NOZZLE NOZZLE ASSY 180KG/CMZ
1-8	NSS		6 NOT SOLD SEPARAT NOZZLE HOLDER ASSY
1	NSS		6 NOT SOLD SEPARAT BODY,NOZZLE HOLDER
2	VAME705419		12 PIN PIN
4	VAME722370		AR SHIM SHIM, T=0.500
4	VAME722371		AR SHIM SHIM,T=0.525
4	VAME722372		AR SHIM SHIM,T=0.550
4	VAME722373		AR SHIM SHIM,T=0.575
4	VAME722374		AR SHIM SHIM,T=0.600
4	VAME722406		AR SHIM SHIM,T=1.400
4	VAME722407		AR SHIM SHIM,T=1.425
4	VAME722408		AR SHIM SHIM,T=1.150
4	VAME722409		AR SHIM SHIM,T=1.175
4	VAME722410		AR SHIM SHIM,T=1.500
5	VAME705421		AR SPRING SPRING.NOZZLE
6	VAME705420		6 SEAT SEAT,SPG
7	VAME705422		6 SPACER SPACER
8	VAME705423		6 NUT NUT,RETAINING
9	NSS		6 NOT SOLD SEPARAT TIP,NOZZLE 5-0.3
10	VAME016564		6 GASKET GASKET,NOZZLE T=4.7
11	VAMF520010		6 O-RING O-RING 15
12	VAME016543		6 BRIDGE NOZZLE
13	VAMH000816		6 BOLT BOLT,BRIDGE 10X52

6D31-T-MITSUBISHI DIESEL ENGINE

FUEL FILTER

040-190A



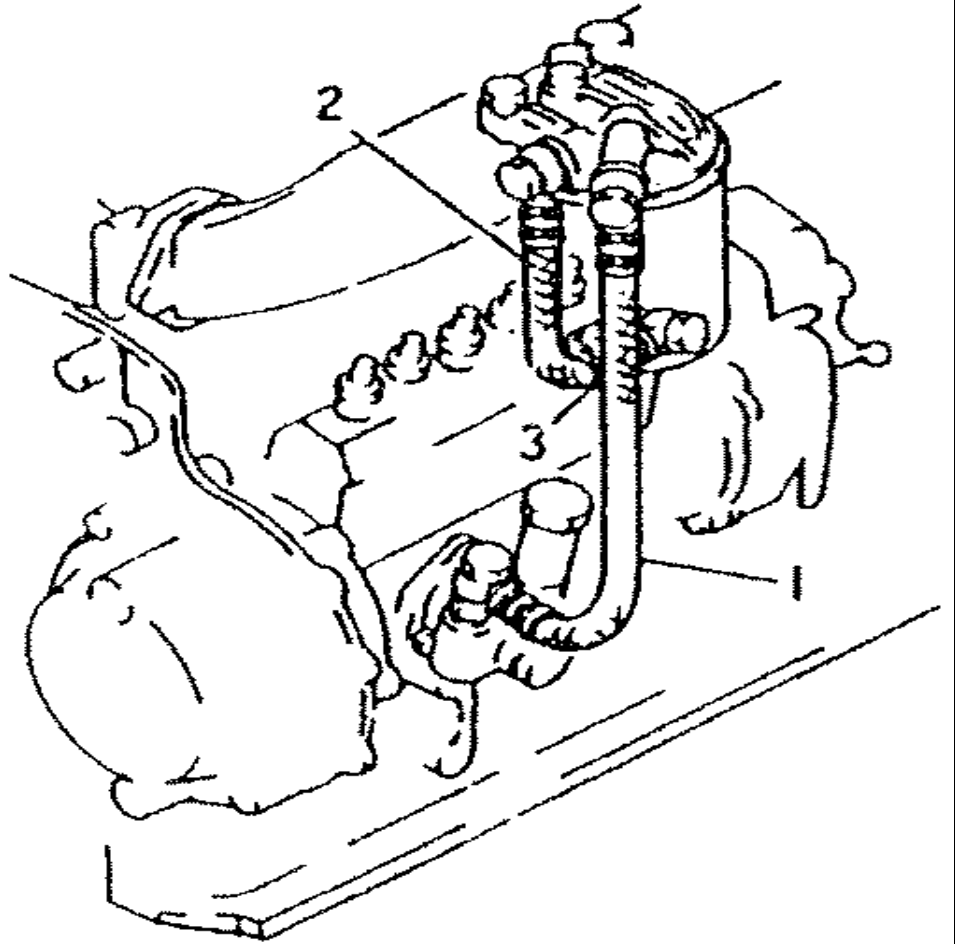
FUEL FILTER

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1-6	VAME035396		1 FUEL FILTER FUEL FILTER ASSY
1	VAME035672		1 CYLINDER HEAD HEAD,FUEL FILTER
2	VAMH037087		2 BOLT BOLT,CONNECTOR
3	VAMH035166		4 GASKET GASKET 14
4	VAMH037084		1 GLOW PLUG PLUG,AIR
5	VAMH035164		1 GASKET GASKET 8
6	VAME035393		1 ELEMENT ELEMENT,FUEL FILTER
15	VAMH000707		2 BOLT BOLT,FLANGE 10X 30

6D31-T-MITSUBISHI DIESEL ENGINE

FUEL HOSE

040-220A



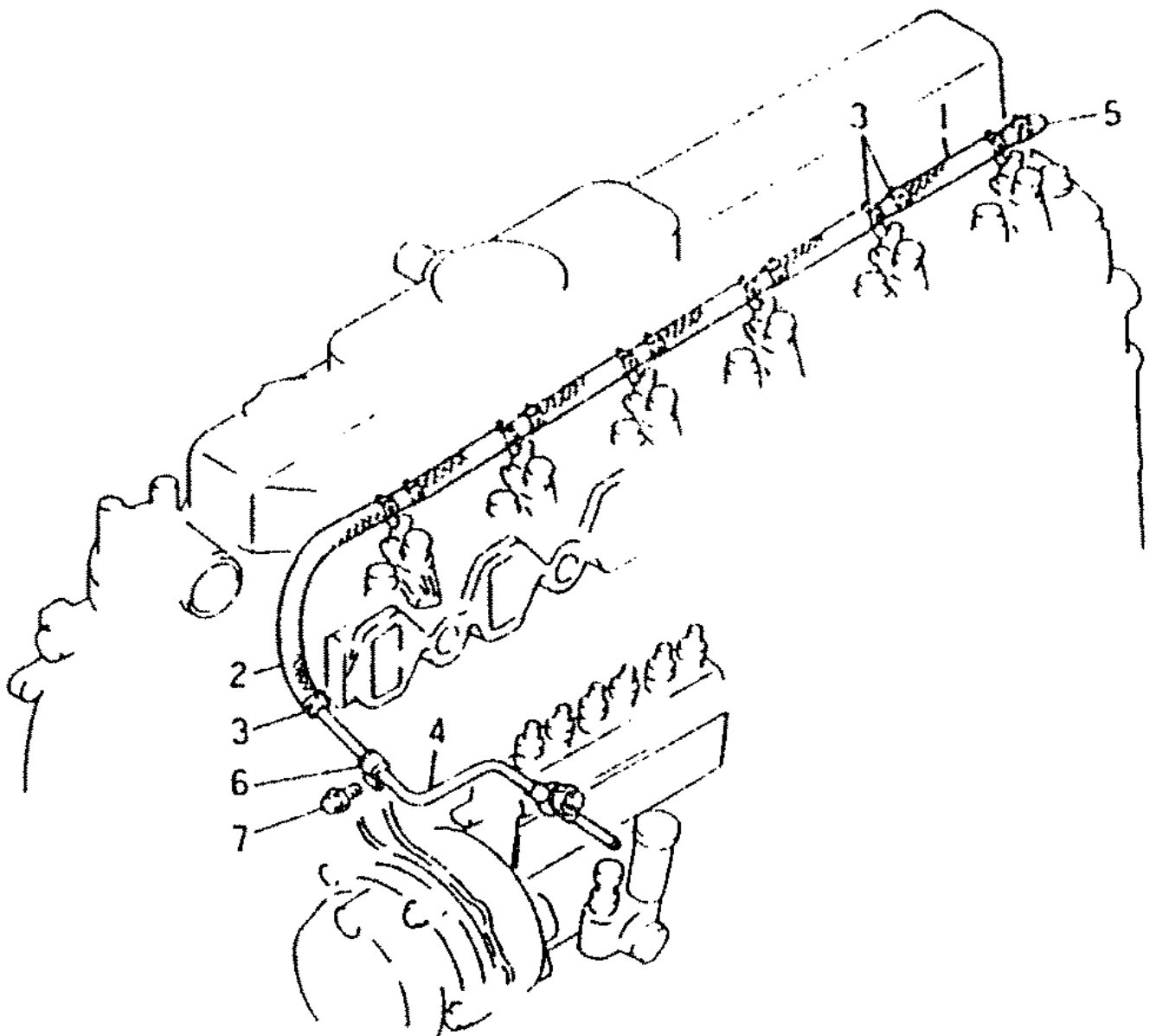
FUEL HOSE

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1	VAME910338		1 HOSE HOSE.FUEL FEED,PUMP-FIITER, L=380
2	VAME910336		1 HOSE HOSE,FUEL FEED,FILTER-PUMP, L=360
3	VA3166103600		1 PROTECTOR PROTECTOR,RUBBER

6D31-T-MITSUBISHI DIESEL ENGINE

FUEL RETURN SYSTEM

040-800A



FUEL RETURN SYSTEM

REF FN	PART NUMBER	YR/SN	QTY DESCRIPTION
1	VAMS602013		5 FLEXIBLE HOSE HOSE,FUEL 6X110
2	{VAMS602035}		1 HOSE HOSE,FUEL 6X220
3	VAMS660163		13 CLAMP CLIP,HOSE 11.6
4	{VAME019612}		1 PIPE PIPE,B FUEL LEAK OFF
5	VAME016571		1 CAP CAP
6	VAMH020801		1 CLIP CLIP
7	VAMH000999		1 BOLT BOLT,FLANGE 6X12

6D31-T-MITSUBISHI DIESEL ENGINE

INDEX - INDICE - INDEX - ZAHLENVERZEICHNIS - INDICE - INDICE - INDHOLD - INHOUD

Number	Figure	Sequence Ref.	Number	Figure	Sequence Ref.
NSS	01-001	1	NSS	07-001	5
NSS	01-001	3	NSS	07-001	6
NSS	01-001	4	NSS	07-001	7
NSS	01-001	5	NSS	07-001	7A
NSS	01-001	6	NSS	07-001	7B
NSS	01-001	7	NSS	07-002	1
NSS	01-001	7A	VA03751240	03-002	336
NSS	01-001	7B	VA30036383	02-009	32
NSS	01-002	1	VA30048915	02-004	4
NSS	01-002	2	VA30836808	02-007	8
NSS	01-004	1	VA30836822	02-007	9
NSS	01-006	1	VA30890804	02-003	1
NSS	01-008	2	VA30968031	05-001	2F
NSS	01-008	3	VA31145029	02-001	7
NSS	01-008	4	VA31233537	01-019	8
NSS	01-009	1	VA31261064	03-002	132
NSS	01-009	2	VA31261064	03-002	132A
NSS	01-009	6	VA31261064	03-004	35
NSS	01-009	7	VA31261064	03-004	36
NSS	01-010	1	VA31275165	03-001	20
NSS	01-011	1	VA31661036	03-009	3
NSS	01-013	11	VA31832929	02-007	5
NSS	01-013	7	VAM0001300	02-002	13A
NSS	01-013	9	VAM0001300	02-002	2A
NSS	01-014	11	VAM002T783	04-004	
NSS	01-014	17	VAM002T783	04-004	
NSS	01-015	1	VAMB286874	05-001	2K
NSS	01-016	1	VAMC84021	02-008	2
NSS	03-001	1	VAMC84057	01-003	15
NSS	03-002	1-336	VAMC84523	01-022	9
NSS	03-007	1	VAMC84523	01-023	9
NSS	03-007	1-8	VAMD00042	01-001	17
NSS	03-007	9	VAMD00042	07-001	17
NSS	04-002	14	VAMD00878	01-007	7
NSS	04-002	22	VAMD60746	04-003	23
NSS	04-002	9	VAMD61102	04-002	23
NSS	04-003	10	VAMD61102	04-004	23
NSS	04-003	22	VAME004139	01-022	1
NSS	04-003	6	VAME011012	01-006	11
NSS	04-004	14	VAME011012	07-002	11
NSS	04-004	22	VAME011015	01-006	17
NSS	04-004	3	VAME011016	01-006	18
NSS	04-004	9	VAME011057	01-006	13
NSS	04-006	14	VAME011058	01-006	13
NSS	04-006	20	VAME011058	07-002	13
NSS	04-006	4	VAME011227	01-014	8
NSS	04-006	7	VAME011249	01-014	30
NSS	07-001	1	VAME011254	01-014	12
NSS	07-001	3	VAME011257	01-014	20
NSS	07-001	4	VAME011258	01-014	21

INDEX - INDICE - INDEX - ZAHLENVERZEICHNIS - INDICE - INDICE - INDHOLD - INHOUD

Number	Figure	Sequence	Ref.	Number	Figure	Sequence	Ref.
VAME011259	01-014		21A	VAME013031	07-005		9
VAME011260	01-014		22	VAME013536	01-016		5
VAME011261	01-014		24	VAME013536	07-005		10
VAME011265	01-014		1	VAME013710	01-017		21
VAME011266	01-014		2	VAME014471	02-005		15
VAME011267	01-014		31	VAME014532	02-007		2
VAME011268	01-014		6	VAME014532	02-009		47
VAME011281	01-007		6	VAME014532	07-005		26
VAME011282	01-007		5	VAME014532	07-005		29
VAME011292	01-014		11-12	VAME014559	02-009		44
VAME011519	01-001		9	VAME014559	07-005		30
VAME011519	07-001		9	VAME014717	02-010		9
VAME011593	01-001		11	VAME014838	02-006		2
VAME011593	07-001		11	VAME015380	02-002		9
VAME011594	01-001		12	VAME015420	02-002		7
VAME011594	07-001		12	VAME015420	07-005		18A
VAME011596	01-001		31	VAME015421	02-002		10
VAME011598	01-001		32	VAME015429	02-002		11
VAME011598	07-005		1	VAME016543	03-007		12
VAME011618	01-001		25	VAME016564	03-007		10
VAME011618	07-001		25	VAME016564	07-005		35
VAME011626	01-001		2	VAME016571	03-010		5
VAME011626	07-001		2	VAME018077	04-005		8
VAME011626	07-004		1	VAME018095	02-001		2
VAME011627	01-001		2	VAME018150	04-001		12
VAME011655	01-005		1	VAME018174	03-006		1
VAME011707	01-001		35	VAME018175	03-006		2
VAME011754	01-001		34	VAME018176	03-006		3
VAME011755	07-003		2	VAME018177	03-006		4
VAME011770	01-005		7	VAME018178	03-006		5
VAME011770	07-005		5	VAME018179	03-006		6
VAME011913	01-020		15	VAME018182	02-009		1
VAME012009	01-008		5	VAME018183	02-007		1
VAME012009	07-004		4	VAME018185	02-004		1
VAME012061	01-008		6	VAME019612	03-010		4
VAME012061	07-004		5	VAME019926	01-021		1
VAME012232	01-009		3	VAME020244	01-014		10
VAME012234	01-009		5	VAME020328	01-002		3
VAME012234	07-004		6	VAME020329	01-002		3
VAME012265	01-009		1-5	VAME020330	01-002		3
VAME012729	01-013		1	VAME020331	01-002		3
VAME012732	01-013		2	VAME020359	01-004		5
VAME012747	01-013		11-12	VAME021111	01-001		26
VAME012858	01-008		1	VAME021120	07-003		3
VAME012858	07-004		2	VAME023570	01-009		4
VAME012859	01-008		1	VAME023769	01-011		5
VAME012860	01-008		1	VAME024108	01-014		7
VAME012861	01-008		1	VAME024156	01-005		6
VAME012862	01-008		1	VAME024156	07-003		1
VAME013031	01-015		6	VAME029004	01-006		14

INDEX - INDICE - INDEX - ZAHLENVERZEICHNIS - INDICE - INDICE - INDHOLD - INHOUD

Number	Figure	Sequence	Ref.	Number	Figure	Sequence	Ref.
VAME029004	07-002		14	VAME081527	01-007		1
VAME029005	01-006		14	VAME081541	01-006		19
VAME029025	01-012		3	VAME081541	07-005		6
VAME029046	01-001		20	VAME081547	01-020		4B
VAME029046	07-001		20	VAME081555	01-005		1-4
VAME029101	01-014		3	VAME082505	01-011		1-2
VAME029102	01-014		4	VAME082515	01-013		7-8
VAME029225	01-001		10	VAME082517	01-013		8
VAME029225	07-001		10	VAME082520	01-013		9-10
VAME031063	01-004		3	VAME083528	01-017		2
VAME031088	01-015		13	VAME083528	07-005		11
VAME031088	01-019		9	VAME084507	02-005		11
VAME031088	02-010		24	VAME084518	02-010		27
VAME031088	07-001		27	VAME084519	02-005		25
VAME031886	01-006		2	VAME084519	07-005		22
VAME031886	07-002		2	VAME084526	02-010		11
VAME031888	01-006		3	VAME084527	02-010		12
VAME031888	07-002		3	VAME084528	02-010		13
VAME032645	01-010		2	VAME084529	02-010		17
VAME033679	01-015		9	VAME084530	02-010		18
VAME033679	07-005		37	VAME084531	02-010		1-19
VAME033848	01-015		9A	VAME084532	02-010		1
VAME033848	07-005			VAME084533	02-010		2
VAME034013	02-005		3	VAME084534	02-010		3
VAME034014	02-005		3A	VAME084535	02-010		4
VAME035018	07-005		4A	VAME084536	02-010		5
VAME035393	03-008		6	VAME084537	02-010		6
VAME035396	03-008		1-6	VAME084547	02-005		10
VAME035672	03-008		1	VAME084586	02-005		1-17
VAME038917	06-001		1	VAME084588	02-005		5
VAME039863	02-001		9	VAME084589	02-005		1
VAME040217	02-010		19	VAME085512	02-002		1
VAME049209	02-003		2	VAME087507	04-001		1
VAME049228	05-001		5A	VAME087507	04-002		1-25
VAME053453	01-017		11	VAME087508	04-005		1
VAME057422	06-001		7	VAME087508	04-006		1-22
VAME067626	05-001		7	VAME087521	04-001		1
VAME067637	05-001			VAME087521	04-003		1-25
VAME077014	04-001		10	VAME087589	04-004		
VAME080033	02-001		3	VAME087590	04-004		1-25
VAME080071	02-002		2	VAME088117	01-020		4
VAME080082	03-007		1-9	VAME088133	02-004		2
VAME080107	02-002		5	VAME088150	01-022		2
VAME080296	02-002		5	VAME088152	03-001		17
VAME081512	01-012		1	VAME088153	03-003		410
VAME081513	01-014		17-18	VAME088179	01-003		10
VAME081522	01-007		3	VAME088179	07-005		4
VAME081522	07-005		7	VAME088222	01-003		1
VAME081526	01-001		11A	VAME088226	01-010		1-2
VAME081526	07-001		11A	VAME088247	04-005		3

INDEX - INDICE - INDEX - ZAHLENVERZEICHNIS - INDICE - INDICE - INDHOLD - INHOUD

Number	Figure	Sequence	Ref.	Number	Figure	Sequence	Ref.
VAME088252	01-017		8	VAME700287	04-003		4A
VAME088255	01-015		1-3	VAME700288	04-003		9
VAME088256	01-017		1	VAME700291	04-003		13
VAME088256	01-018		1-28	VAME700321	04-003		10-12
VAME088283	02-009		39	VAME700535	04-006		6
VAME088287	01-011		7	VAME700588	04-006		1
VAME088288	02-004		3	VAME700590	04-006		3
VAME088300	03-001		1-4	VAME700596	04-006		15A
VAME088301	02-001		1-9B	VAME700606	04-006		7-8
VAME088302	02-001		1	VAME700607	04-006		13
VAME088311	01-016		1-3	VAME700633	04-006		4-6
VAME088315	02-009		30	VAME700635	04-006		20-22
VAME088322	03-001		1-4	VAME700639	04-006		16A
VAME088381	01-004		1-4	VAME700746	04-006		8
VAME088383	01-004		1-4	VAME700766	04-006		14-22
VAME700022	04-003		8	VAME700767	04-006		19
VAME700026	04-002		25	VAME700821	04-006		17
VAME700026	04-003		25	VAME700851	04-002		3
VAME700026	04-004		25	VAME700852	04-002		6
VAME700033	04-002		5	VAME700853	04-002		7
VAME700033	04-004		5	VAME700853	04-004		7
VAME700036	04-002		12	VAME700854	04-002		9-11
VAME700036	04-004		12	VAME700854	04-004		9-11
VAME700038	04-003		11	VAME700855	04-002		14-10
VAME700039	04-003		12	VAME700856	04-002		14-15
VAME700045	04-002		18	VAME700856	04-004		14-15
VAME700047	04-003		22-23	VAME700858	04-002		22-23
VAME700048	04-003		24	VAME700858	04-004		22-23
VAME700072	04-003		7	VAME700860	04-002		1
VAME700117	04-002		10	VAME700860	04-004		1
VAME700117	04-004		10	VAME700862	04-003		15
VAME700118	04-002		11	VAME700875	04-003		20
VAME700118	04-004		11	VAME700882	04-006		2
VAME700120	04-002		16-17	VAME700884	04-003		4
VAME700121	04-002		17	VAME700885	04-003		14
VAME700122	04-002		16	VAME700886	04-003		16
VAME700122	04-004		16	VAME700887	04-003		17
VAME700124	04-002		15	VAME700888	04-003		21
VAME700124	04-004		15	VAME700889	04-003		3
VAME700129	04-002		24	VAME700895	04-002		2
VAME700129	04-004		24	VAME700895	04-003		2
VAME700130	04-002		20	VAME700895	04-004		2
VAME700130	04-004		20	VAME700896	04-002		21
VAME700154	04-006		168	VAME700971	04-004		16-17
VAME700234	04-002		4	VAME700972	04-004		17
VAME700234	04-004		4	VAME700988	04-004		6
VAME700276	04-003		1	VAME700992	04-004		21
VAME700280	04-003		1A	VAME700993	04-004		18
VAME700285	04-003		5	VAME701024	04-004		3A
VAME700286	04-003		6-7	VAME701091	04-004		3-3A

INDEX - INDICE - INDEX - ZAHLENVERZEICHNIS - INDICE - INDICE - INDHOLD - INHOUD

Number	Figure	Sequence	Ref.	Number	Figure	Sequence	Ref.
VAME701092	04-004		14-18	VAME704676	03-003		182
VAME701093	04-004		2	VAME704681	03-003		203
VAME701099	04-004		3-3A	VAME704729	03-003		130
VAME701505	03-003		13	VAME704733	03-003		145
VAME701510	03-003		138	VAME704735	03-003		163
VAME701712	03-003		1	VAME704740	03-003		190
VAME701981	03-003		151	VAME704751	03-003		150
VAME704003	03-002		1D	VAME704757	03-003		336
VAME704005	03-002		3	VAME704906	03-003		135
VAME704013	03-002		45	VAME704908	03-003		142
VAME704021	03-002		67	VAME704924	03-003		160
VAME704022	03-002		68	VAME704945	03-003		100
VAME704023	03-002		76	VAME705020	03-004		5
VAME704025	03-002		78	VAME705021	03-004		6
VAME704028	03-002		92	VAME705022	03-004		7
VAME704105	03-002		37	VAME705027	03-004		11
VAME704110	03-002		62	VAME705028	03-004		12
VAME704112	03-002		77	VAME705029	03-004		16
VAME704115	03-002		101	VAME705030	03-004		20
VAME704116	03-002		106	VAME705099	03-004		10
VAME704137	03-002		92A	VAME705151	03-002		5
VAME704223	03-002		16	VAME705152	03-002		23
VAME704235	03-002		1B	VAME705155	03-002		56
VAME704237	03-002		40	VAME705156	03-002		56
VAME704285	03-002		30	VAME705157	03-002		56
VAME704286	03-002		36	VAME705158	03-002		56
VAME704287	03-002		41	VAME705159	03-002		56
VAME704288	03-002		42	VAME705160	03-002		56
VAME704289	03-002		55	VAME705161	03-002		56
VAME704294	03-002		61	VAME705162	03-002		56
VAME704295	03-002		63	VAME705163	03-002		56
VAME704298	03-002		131	VAME705164	03-002		56
VAME704318	03-002		2	VAME705165	03-002		56
VAME704350	03-002		95	VAME705166	03-002		56
VAME704380	03-002		1E	VAME705167	03-002		56
VAME704482	03-005		18	VAME705168	03-002		56
VAME704489	03-002		21	VAME705169	03-002		56
VAME704502	03-003		6	VAME705170	03-002		56
VAME704517	03-003		117	VAME705171	03-002		56
VAME704542	03-003		236	VAME705172	03-002		56
VAME704568	03-003		47	VAME705173	03-002		56
VAME704608	03-003		161	VAME705174	03-002		56
VAME704618	03-003		237	VAME705175	03-002		56
VAME704654	03-003		9	VAME705176	03-002		56
VAME704655	03-003		12	VAME705177	03-002		56
VAME704658	03-003		35B	VAME705178	03-002		56
VAME704662	03-003		53	VAME705179	03-002		56
VAME704666	03-003		4	VAME705180	03-002		56
VAME704669	03-003		136	VAME705181	03-002		56
VAME704674	03-003		174	VAME705182	03-002		56

INDEX - INDICE - INDEX - ZAHLENVERZEICHNIS - INDICE - INDICE - INDHOLD - INHOUD

Number	Figure	Sequence	Ref.	Number	Figure	Sequence	Ref.
VAME705183	03-002		56	VAME705333	03-003		154
VAME705184	03-002		91E	VAME705334	03-003		155
VAME705185	03-002		91E	VAME705338	03-003		157
VAME705186	03-002		91A	VAME705339	03-003		332
VAME705187	03-002		91A	VAME705340	03-003		152
VAME705189	03-002		93A	VAME705342	03-003		238
VAME705190	03-002		93A	VAME705358	03-002		49
VAME705191	03-002		93A	VAME705361	03-003		3
VAME705192	03-002		93A	VAME705378	03-003		403
VAME705193	03-002		93A	VAME705381	03-003		153
VAME705194	03-002		93A	VAME705384	03-003		156
VAME705195	03-002		93A	VAME705385	03-003		201
VAME705196	03-002		93A	VAME705392	03-003		82
VAME705197	03-002		93A	VAME705395	03-003		143
VAME705198	03-002		93A	VAME705396	03-003		144
VAME705200	03-002		93	VAME705397	03-003		162
VAME705201	03-002		93	VAME705398	03-003		166
VAME705202	03-002		93	VAME705399	03-003		167
VAME705203	03-002		93	VAME705419	03-007		2
VAME705204	03-002		93	VAME705420	03-007		6
VAME705205	03-002		93	VAME705421	03-007		5
VAME705206	03-002		93	VAME705422	03-007		7
VAME705207	03-002		93	VAME705423	03-007		8
VAME705208	03-002		96	VAME716093	03-003		35
VAME705209	03-002		97	VAME716095	03-003		132
VAME705210	03-002		100	VAME716097	03-003		65
VAME705211	03-002		104	VAME716101	03-003		165
VAME705214	03-002		112	VAME716103	03-003		181
VAME705218	03-003		137	VAME716106	03-003		164
VAME705219	03-002		192	VAME716106	03-003		207
VAME705221	03-002		195	VAME716556	03-003		135
VAME705223	03-002		334	VAME716556	03-004		1
VAME705224	03-003		7	VAME716674	03-005		21
VAME705227	03-003		39	VAME716675	03-005		8
VAME705233	03-003		101	VAME716676	03-005		9
VAME705234	03-003		102	VAME716705	03-003		141
VAME705236	03-003		118	VAME717039	03-003		208
VAME705237	03-003		118	VAME717104	03-001		3
VAME705238	03-003		118	VAME717104	03-004		1-36
VAME705239	03-003		118	VAME717488	03-005		1-3
VAME705248	03-003		159	VAME717630	03-004		25
VAME705249	03-003		175	VAME717659	03-004		30
VAME705275	03-004		8	VAME717660	03-005		1
VAME705276	03-004		18	VAME717663	03-005		2A
VAME705277	03-002		1A	VAME717664	03-005		2B
VAME705284	03-003		10	VAME717665	03-005		2D
VAME705296	03-003		56	VAME717666	03-005		2E
VAME705321	03-003		51	VAME717667	03-005		2E
VAME705325	03-003		103	VAME717668	03-005		2E
VAME705332	03-002		194	VAME717669	03-005		2E

INDEX - INDICE - INDEX - ZAHLENVERZEICHNIS - INDICE - INDICE - INDHOLD - INHOUD

Number	Figure	Sequence	Ref.	Number	Figure	Sequence	Ref.
VAME717670	03-005		2E	VAME719583	01-018		6
VAME717671	03-005		2E	VAME719584	01-018		17
VAME717672	03-005		2E	VAME719585	01-018		4
VAME717673	03-005		2E	VAME719590	01-018		5
VAME717674	03-005		2E	VAME719621	01-018		2
VAME717675	03-005		2E	VAME719627	01-018		12
VAME717676	03-005		2F	VAME719761	01-018		28
VAME717679	03-005		11	VAME719780	01-018		8
VAME717680	03-005		1-3	VAME719900	01-018		11
VAME717680	03-005		12	VAME719902	01-018		10
VAME717681	03-005		1-3	VAME719904	01-018		11A
VAME717681	03-005		12	VAME719906	01-018		15
VAME717682	03-005		1-3	VAME719910	01-018		9
VAME717682	03-005		12	VAME719912	01-018		10A
VAME717683	03-005		1-3	VAME719914	01-018		3
VAME717684	03-005		1-3	VAME719921	01-018		13
VAME717684	03-005		12	VAME719924	01-018		16
VAME717685	03-005		1-3	VAME719936	01-018		1
VAME717685	03-005		12	VAME722171	03-005		17
VAME717686	03-005		1-3	VAME722317	03-005		2
VAME717686	03-005		12	VAME722365	03-002		90
VAME717687	03-005		1-3	VAME722370	03-007		4
VAME717687	03-005		12	VAME722371	03-007		4
VAME717688	03-005		12	VAME722372	03-007		4
VAME717689	03-005		1-3	VAME722373	03-007		4
VAME717689	03-005		12	VAME722374	03-007		4
VAME717690	03-005		19	VAME722406	03-007		4
VAME7176S	03-005		12	VAME722407	03-007		4
VAME717700	03-003		192	VAME722408	03-007		4
VAME717714	03-003		83	VAME722409	03-007		4
VAME717738	03-003		335	VAME722410	03-007		4
VAME717779	03-003		211	VAME722463	03-002		1
VAME717813	03-003		211	VAME722494	03-005		2C
VAME717814	03-003		211	VAME722495	03-005		2-2F
VAME717815	03-003		211	VAME722799	03-003		140
VAME717816	03-003		211	VAME722812	03-003		36
VAME717817	03-003		211	VAME722843	03-003		80
VAME717875	03-003		118	VAME722845	03-003		331
VAME717876	03-003		118	VAME722849	03-003		140
VAME717882	03-002		131A	VAME723176	03-003		411
VAME717882	03-004		32	VAME723180	03-003		4
VAME717958	03-002		196	VAME723275	03-001		4
VAME717959	03-005		16	VAME723275	03-005		1-22
VAME717959	03-005		20	VAME723423	03-001		2
VAME717960	03-005		22	VAME723423	03-003		1-411
VAME719520	01-018		19	VAME723443	03-002		191
VAME719524	01-018		27	VAME723444	03-003		1
VAME719570	01-018		18	VAME723459	03-003		191
VAME719575	01-018		14	VAME723464	03-003		400
VAME719582	01-018		7	VAME723465	03-003		402

INDEX - INDICE - INDEX - ZAHLENVERZEICHNIS - INDICE - INDICE - INDHOLD - INHOUD

Number	Figure	Sequence	Ref.	Number	Figure	Sequence	Ref.
VAME723830	03-001		2	VAMF140231	02-005		12
VAME723830	03-003		1-410	VAMF140233	01-005		8
VAME7E306	03-003		170	VAMF140235	01-005		9
VAME902206	02-004		10	VAMF140236	02-007		7
VAME910336	03-009		2	VAMF140239	01-005		10
VAME910338	03-009		1	VAMF140241	02-005		26A
VAME920030	02-001		6	VAMF140244	02-001		12
VAME920041	02-009		33A	VAMF140245	02-005		26A
VAME999026	07-003		1-4	VAMF140260	03-001		21
VAME999516	02-002		9-10	VAMF140458	01-013		6
VAME999619	02-001		2-	VAMF200049	01-004		4
VAME999711	01-002		1-2	VAMF240029	03-006		18
VAME999712	01-002		1-2	VAMF243663	01-017		10B
VAME999713	01-002		1-2	VAMF300845	02-004		6
VAME999714	01-002		1-2	VAMF400657	01-015		3
VAME999715	01-002		1-2	VAMF402574	01-015		2
VAME999726	01-009		6-7	VAMF407728	01-016		3
VAME999727	01-009		6-7	VAMF430725	04-001		3
VAME999728	01-009		6-7	VAMF430732	02-001		9A
VAME999729	01-009		6-7	VAMF430841	01-014		16
VAME999730	01-009		6-7	VAMF434103	03-006		13
VAME999812	07-004		3	VAMF434103	04-001		14
VAME999821	07-005		1-37	VAMF434104	01-017		10
VAME999836	01-008		2-4	VAMF434105	03-001		22
VAME999837	01-008		2-4	VAMF434106	04-005		6
VAME999838	01-008		2-4	VAMF450005	02-007		
VAME999839	01-008		2-4	VAMF450005	04-001		
VAME999840	01-008		2-4	VAMF450153	04-001		
VAME999844	07-002		1-17	VAMF450154	01-021		
VAME999886	07-001		1-30	VAMF450405	04-001		
VAME999993	07-004		1-6	VAMF472406	01-001		21
VAMF104864	01-007		4	VAMF472406	01-005		5
VAMF104867	01-007		4A	VAMF472406	07-001		21
VAMF140002	01-003		16	VAMF472407	01-011		2
VAMF140003	01-014		23	VAMF472571	01-013		10
VAMF140025	02-010		8	VAMF472587	01-001		24
VAMF140203	01-001		36	VAMF520005	07-005		14
VAMF140221	02-010		29	VAMF520007	01-022		3
VAMF140223	01-001		33	VAMF520007	07-005		14
VAMF140223	01-003		11	VAMF520010	03-007		11
VAMF140223	01-012		4	VAMF520010	07-005		35A
VAMF140223	02-007		10	VAMF520016	02-002		3
VAMF140223	02-007		4	VAMF520016	02-010		25
VAMF140223	02-009		46	VAMF520016	07-005		16
VAMF140225	01-015		7	VAMF520016	07-005		32
VAMF140225	01-021		2	VAMF520416	02-001		10
VAMF140225	02-010		26	VAMF520416	07-005		15A
VAMF140229	02-001		11	VAMF520423	03-001		16
VAMF140229	02-002		12	VAMF520423	07-005		33
VAMF140229	02-009		34	VAMF522205	02-005		4

INDEX - INDICE - INDEX - ZAHLENVERZEICHNIS - INDICE - INDICE - INDHOLD - INHOUD

Number	Figure	Sequence	Ref.	Number	Figure	Sequence	Ref.
VAMF522236	02-001		8	VAMH00511	01-010		5
VAMF524002	02-001		9B	VAMH00701	01-001		23
VAMF540011	01-001		19	VAMH00701	07-001		23
VAMF540011	07-001		19	VAMH00701	01-014		25
VAMF540014	02-005		2	VAMH01204	01-001		8
VAMF650102	02-009		38	VAMH01204	01-013		12
VAMF660063	01-015			VAMH01204	07-001		8
VAMF660063	01-019			VAMH02025	03-006		14
VAMF660063	02-009			VAMH02025	03-006		15
VAMF660063	02-010			VAMH02026	03-006		16
VAMF660063	07-001			VAMH02080	03-010		6
VAMF660063	07-005		28	VAMH02125	03-006		12
VAMF660066	02-002			VAMH02125	03-006		17
VAMF660068	01-019			VAMH02132	01-017		12
VAMF660068	02-010			VAMH02241	05-001		2M
VAMF660071	02-005		17	VAMH03402	02-001		4
VAMF665103	02-010		16	VAMH03402	07-003		4
VAMF665540	01-019		21	VAMH03501	02-005		29
VAMF665540	07-001		30	VAMH03501	07-005		32
VAMH00037	04-005		9	VAMH03501	07-005		36
VAMH00063	01-010		4	VAMH03501	01-003		
VAMH00070	04-005		5	VAMH03504	02-010		10
VAMH00070	01-020		13	VAMH03509	02-010		7
VAMH00070	03-008		15	VAMH03516	03-008		5
VAMH00071	03-001		19	VAMH03516	03-008		3
VAMH00071	02-002		8	VAMH03708	03-008		4
VAMH00071	01-021		3	VAMH03708	03-008		2
VAMH00071	04-005		10	VAMH03711	03-001		25
VAMH00071	02-002		8	VAMH03711	02-010		15
VAMH00071	02-010		28	VAMH03712	01-003		2
VAMH00072	02-004		7	VAMH03723	01-019		7
VAMH00072	04-005		4	VAMH03723	07-001		28
VAMH00072	01-004		7	VAMH03727	02-009		2
VAMH00072	04-001		4	VAMH03772	01-019		1
VAMH00073	04-005		4A	VAMH03775	01-001		13
VAMH00081	03-007		13	VAMH03775	07-001		13
VAMH00082	01-017		10A	VAMH03775	01-001		18
VAMH00096	01-004		6	VAMH03775	07-001		18
VAMH00099	01-022		8	VAMH05200	05-001		2A
VAMH00099	02-009		45	VAMH05204	05-001		3A
VAMH00099	03-010		7	VAMH05206	05-001		2
VAMH00100	01-014		15	VAMH05223	05-001		2H
VAMH00141	01-013		13	VAMH05235	05-001		2L
VAMH00217	01-006		4	VAMH05237	05-001		2G
VAMH00217	07-002		4	VAMH05404	04-001		8
VAMH00404	01-011		4	VAMM50236	04-006		5
VAMH00405	01-016		6	VAMM50237	04-006		21
VAMH00405	07-002		17	VAMM50237	04-006		22
VAMH00411	01-017		3	VAMS476137	01-011		3
VAMH00502	01-013		3	VAMS476139	01-012		2

INDEX - INDICE - INDEX - ZAHLENVERZEICHNIS - INDICE - INDICE - INDHOLD - INHOUD

Number	Figure	Sequence	Ref.	Number	Figure	Sequence	Ref.
VAMS556065	02-001		5				
VAMS556185	02-001		5A				
VAMS602013	03-010		1				
VAMS602035	03-010		2				
VAMS660163	03-010		3				
VAMS660170	01-020		16				
VAMS660170	01-020		5				
VAMS666101	01-014		18				
VAMS666132	01-006		6				
VAMS666132	07-002		6				
VAMS666136	01-001		14				
VAMS666136	01-005		4				
VAMS666136	01-006		8				
VAMS666136	07-001		14				
VAMS666136	07-002		8				
VAMS666138	01-001		15				
VAMS666138	01-006		7				
VAMS666138	07-001		15				
VAMS666138	07-002		7				
VAMS666140	01-001		16				
VAMS666140	07-001		16				
VAMS666222	01-019		6				
VAMS666224	02-002		15				