

部品カタログ
Parts Catalogue

Engine No. S4S-Y165DG :73009-UP
S4S-Y165DP :71443-UP
S4S-Y1DT65DG:83013-UP

三菱ディーゼルエンジン
MITSUBISHI
DIESEL ENGINE
S4S-Y165DG
S4S-Y165DP
S4S-Y1DT65DP
for MENA

(MKN-40)
(MIN-40)

June 2002

MITSUBISHI GENUINE PARTS

"MITSUBISHI GENUINE PARTS" should be used exclusively for servicing your Mitsubishi engine.

"MITSUBISHI GENUINE PARTS" are superior and reliable because they have been produced under the excellent quality-control system, and have passed the strict inspections.

Imitation parts are not reliable from the viewpoints of their material and manufacturing method which are entirely incomparable with those of genuine parts.

A large assortment of "MITSUBISHI GENUINE PARTS" is always available at any of our authorized dealers, so do your ordering at your nearest dealer by specifying "MITSUBISHI GENUINE PARTS".

GUIDE FOR USE OF PARTS CATALOGUE

1. This Parts Catalogue contains service parts for the following Mitsubishi S4S, S4S-DT diesel engine.

The applicable engine type and serial number are as below:

ENGINE NAME	MODEL	USE · SPECIFICATION	APPLICABLE SERIAL NO.
S4S	Y165DG	For GENERATOR	73009 -UP
S4S	Y165DP	For POWER UNIT	71443 -UP
S4S	Y1DT65DG	For GENERATOR	83013 -UP

2. When ordering parts, give the Mitsubishi dealer or distributor the following information:
 - (1) Part number (or assembly number) and part name.
 - (2) Quantity required
 - (3) Model and serial number

NOTE: In some cases a substitute part is furnished instead of the part ordered.

3. Indication of assembled bolts with washer

Of the standard bolts, those with washers are identified by the symbol "B / W" in the Description column of each list. (Part Name: BOLT, W/WASHER)

For the part numbers of the bolts and washers and those of bolts with washers, refer to the listing (beginning with the page D1) at the end of this parts catalogue. These bolts and washers should be ordered individually.

4. Indication of combination for replaceability — "G" —

The new part to be used in combination with the other part in place of an old part is identified by the symbol "G" in the interchangeability code column of each list.

For the parts to be combined, refer to the listing (beginning with E1) at the end of this parts catalogue.

5. For the numerical index, refer to the page beginning with C1 at the end of this parts catalogue.

6. Some illustration may have some difference from the real part shape when the illustration shows a representation of various parts.

7. The parts and part numbers are subject to change without prior notice.

SAMPLE OF PARTS CATALOGUE

GROUP NAME
GROUP NUMBER → 01-01 CRANKCASE

Applicable to serial NO. shown on cover and up if blank.

Model type

REF. NO.	PART NO.	R/P	S E N G	PARTNAME&DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		M/R	V R D
					31NCA			FORM@-	-@UPTO		
1	MM409741	R	1	RETAINER	1						
	MM434729			RETAINER	1						
2	MM430181			BLOCK SUB ASSY	1			11001-	-11000		
2 0 1	MF665538			CAP,SEARING	2						
2 0 2	MF665543			CAP,SEARING	2						
2 0 3	MM436217			BOLT,BEARING CAP	8						
2 0 4	*			CAP ASSY	1						
2 0 9	MM408176			BUSHING	1						V
3	MD000268		C	PIN,DOWEL	2						
	MM409645		1	PIN,DOWEL	2			12051@	@12050		A
4	MF240051			BOLT,W/WASHER B/W	3						

See (8) - a Description codes.

Quantity per unit

Applicable from serial No. indicated.

High-demand part. See (11)

Part not to be supplied See (3)

See (6) Change codes.

Applicable from 12051 (Scheduled) if suffixed with @ and sometimes differs from real serial No.

Part newly changed or added. See (12)

See (5) Sequence-of-change numbers.

See (2) Reference number.

See (4) Interchangerability code.

Applicable up to serial No. indicated.

Applicable up to 12051 (Scheduled) if prefixed with @ and sometimes differs from real serial No.

NOTE : Some of model designations, number of variations and serial numbers, indicated above, are quoted from other parts catalogues.

Read these items of information as those for this parts catalogue.

NOTE : For the description of each item, refer to the pages which follow.

HOW TO USE THIS PARTS CATALOGUE

(to be referred to together with the former SAMPLE OF PARTS CATALOGUE)

1.S4S-Y165DG
2.S4S-Y165DP
3.S4S-Y1DT65DG

(1)
01-01 CYLINDER HEAD
(FOR 1, 2)

REF. -NO.	PART NO.	RSC / EN P QG	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.	MV / R RD
				1	2	3		
1	32A01-01022		HEAD ASSY, CYLINDER	1	1	.	FROM@- @UPTO	
101	MM316248		PLUG, DRAIN	1	1	.		
103	30636-25901		GASKET	1	1	.		
2	*		HEAD SUB ASSY, CYL	1	1	.		
201	04826-22000		CAP, SEALING	8	8	.		
(2)	(3)	(4)(5)(6)	(7)	(8)	(9)	(10)	(11)(12)	

The items (1) thru (12) are as described below :

(1) Compiling system

The systems of a unit are grouped according to their location in the unit. The groups, each identified by group number, are listed in the order by CONTENTS. Each group is preceded by an "exploded view" which clearly illustrates each part in its correct relation to the other parts in the illustration.

(2) Reference number

Abbreviated to "REF.No.," this number is used to locate a part in the illustration. In cases where the reference number is of three to four figures, the first and second figures show the reference number of an assembly, and the last two figures show the numbers of its component parts.

(3) Part numbers

The part numbers shown in this parts catalogue are those assigned to genuine Mitsubishi parts.

NOTE : Parts with asterisk (*) are not supplied individually.

(4) Interchangeability codes

The interchangeability codes used in this parts catalogue are as follows :

PART NO.	Code (R/P)	DESCRIPTION
A (Old) B (New)	R	B (new part) and A (old part) are mutually interchangeable
A (Old) B (New)	1	A (old part) is not supplied. B (new part) can be substituted for A (old part) .
A (Old) B (New)	3	B (new part) can be substituted for A (old part) . [A (old part) cannot be substituted for B (new part) .]
A (Old) B (New)	N	B (new part) and A (old part) are not interchangeable.
A (Old) B (New)	G	B (new part) can be substituted for A (old part) in combination with other part (s) . (For the parts to be combined, refer to the listing beginning with the page E1 at the end of this parts catalogue.)

(5) Sequence of change numbers

The parts are changed for improved quality or performance. Their changes are indicated in sequence by numerals (1. 2. 3 ...) .

Blank : Original

1 : 1st change

2 : 2nd change

3 : 3rd change

(6) Change codes

These codes indicate the reason or purpose of changes of the parts.

A : Added part (a part entered into service)

C : Change of part number

D : Deleted part (a part applicable upto the serial no. expressed in Serial No.
column)

E : Added part except above reasons

Q : Change of quantity

(7) Part name

Abbreviations are sometimes used. For the abbreviations, refer to TABLE OF SYMBOLS & ABBREVIATIONS appeared in hind pages of this general information chapter.

NOTE : The locational terms L.H (left hand) and R.H (right hand) are as these directions viewed from the Flywheel side of an engine.

(8) Description & specification codes

(a) Description codes (expressed in the first part of Description column) .

B / W : Assembled bolt (with washer)

K I T : Part supplied as a kit

S T D : Standard part

O P T : Optional part

A R : Part used, as required or by selection or in adjusted quantity for necessity

S F N : Semi-finished part

(b) The Description codes in above paragraph (a) are followed by supplement explanation such as dimensions (thickness, length, etc) , manufacturer part number, manufacturer name, etc. as occasion demands.

NOTE : Unless otherwise indicated, the dimensions are shown in millimeter and the name of unit is abbreviated.

(Examples) Thickness : T = 1.00 Length : L = 1000 ;
Width : W = 1500 Height : H = 500

(c) Specification codes

Each specification or type of model and/or selective specifications of a unit are indicated by codes of three figures. For these codes, refer to LIST OF SPECIFICATION CODES appeared in hind pages of this general information chapter.

NOTE : Unless indicated by the specification codes, the parts may be used for the products of all specification.

(Examples) A10 : For diesel fuel

(d) The parts indicated as "NOT SHOWN", such as component parts of overhaul gasket kit,

are not shown in the illustration.

(9) Model & quantity

- (a) Model : Model, type, specification, destination, etc. of product to which a parts catalogue applies are indicated in the title column of each variation.
- (b) Quantity : Quantity of part or assembly and its component parts required for one unit of product is indicated.

NOTE : In case "AR" appears in QTY column, it is required to adjust quantity for use.

(10) Applicable serial numbers

Applicable serial numbers of engine are indicated in the "UPTO" or "FROM" column. Serial numbers with "@" are scheduled ones and sometimes differ from the real serial numbers. If the "FROM" column is blank, the part is applicable to serial number shown on this cover and up.

(11) Management rank

Parts ranked as "A" are high-demand parts. This ranking is to be referred to by dealers, and is devised to facilitate and rationalize their distribution, stocking and inventory of the parts.

(12) Parts changed or added after the last parts list that has been published are identified by "V."

TABLE OF SYMBOLS & ABBREVIATIONS

SYMBOL	DESCRIPTION
ACCEL	ACCELERATOR
ADJ	ADJUSTING (ADJUSTABLE)
AIR-CON	AIR-CONDITIONER
ASSY	ASSEMBLY
ATT	ATTACHMENT
AUTO	AUTOMATIC
AUX	AUXILIARY
AR	AS REQUIRED
B/H	BACKHOE
BATT	BATTERY
BRG	BEARING
B/PMP	BILGE PUMP
BRKT	BRACKET
BUSH	BUSHING
CARB	CARBURETOR
C/L	CENTERLINE
COMPR	COMPRESSOR
CON-ROD	CONNECTING-ROD
C/MBR	CROSS-MEMBER
CYL	CYLINDER
DIA	DIAMETER
DIFF	DIFFERENTIAL
DISTR	DISTRIBUTOR
DR	DRIVE
D=	OUT DIAMETER

SYMBOL	DESCRIPTION
ELEC	ELECTRIC
ENG	ENGINE
EQUIP	EQUIPMENT
EXH	EXHAUST
E/TNK	EXPANSION TANK
FITT	FITTING
FLEX	FLEXIBLE
FR	FRONT
GSKT	GASKET
GEN	GENERATOR
GOV	GOVERNOR
G/N	GROUP NUMBER
H/EXCH	HEAT EXCHANGER
HEX	HEXAGON
HYD	HYDRAULIC
H=	HEIGHT
IND	INDUSTRIAL
INJ	INJECTION
INSTAL	INSTALLATION
INST	INSTRUMENT
INTLK	INTERLOCK
JUNC	JUNCTION
KD	KNOCKDOWN
L.H	LEFT HAND
LUB	LUBRICATION
L=	LENGTH

SYMBOL	DESCRIPTION
MANF	MANIFOLD
MAX	MAXIMUM
M.L.H	MAXIMUM LIFTING HEIGHT
MIN	MINIMUM
MTR	MOTOR
MTG	MOUNTING
NO.	NUMBER
OPT	OPTION
O/D	OVER DRIVE
O.S	OVERSIZE
PTO	POWER TAKE OFF
P/S	POWER STEERING
PRESS	PRESSURE
P/N	PART NUMBER
QTY	QUANTITY
RAD	RADIATOR
RE	REAR
REG	REGULATOR
REV	REVERSE
R.H	RIGHT HAND
REF.NO.	REFERENCE NUMBER
R/N	REFERENCE NUMBER
S/PMP	SEA WATER PUMP
SECT	SECTION
S/MBR	SIDEMEMBER

TABLE OF SYMBOLS & ABBREVIATIONS

SYMBOL	DESCRIPTION
STD	STANDARD
SUPT	SUPPORT
SYM	SYMBOL
SYNCH	SYNCHRONIZER
SYS	SYSTEM
TEMP	TEMPERATURE
TERM	TERMINAL
T/CONV	TORQUE-CONVERTER
T/F	TRANSFER
T/M	TRANSMISSION
T/HSG	TURBINE-HOUSING
T/C	TURBOCHARGER
T=	THICKNESS
U/BODY	UNDERBODY
U.S	UNDERSIZE
UNIV	UNIVERSAL
VAC	VACUUM
VENT	VENTILATOR
W/STRIP	WEATHERSTRIP
W/	WITH
W/O	WITHOUT
W/W	WOODWARD
W/PMP	WATER PUMP
W=	WIDTH
Z=	NUMBER OF GEAR TEETH

SYMBOL	DESCRIPTION
1ST	FIRST
2ND	SECOND
3RD	THIRD
4TH	FOURTH
5TH	FIFTH
&	AND
@	UNCONFIRMED
*	PART NOT TO BE SUPPLIED

SYMBOL	DESCRIPTION

TABLE OF MAKER'S NAME

BAS or ZXL	Bosch Automotive System Corp. (OLD:Zexel Corp.)	NKC	Nikko Electric Industry Co.,Ltd.
DEN or NDC	DENSO Corp. (OLD:Nippon denso Co.,Ltd.)	MEC	Mitsubishi Electric Corp.
		SEC	Sawafuji Electric Co.,Ltd.
NCC	Niigata Converter Co., Ltd.	MPC	Mikuni Precision Co.,Ltd.

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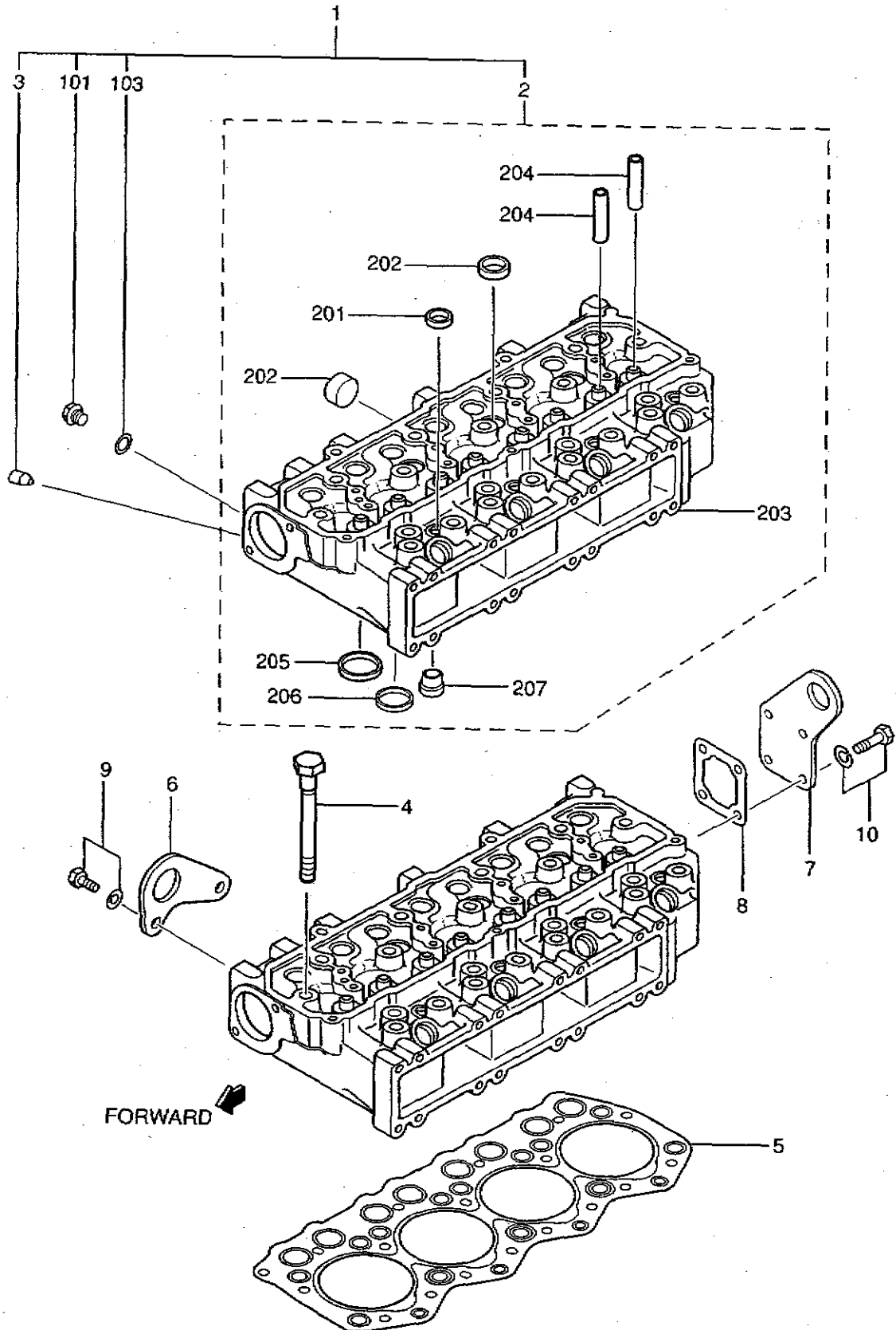
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This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

01-01

CYLINDER HEAD
(FOR 1, 2)

- 2-



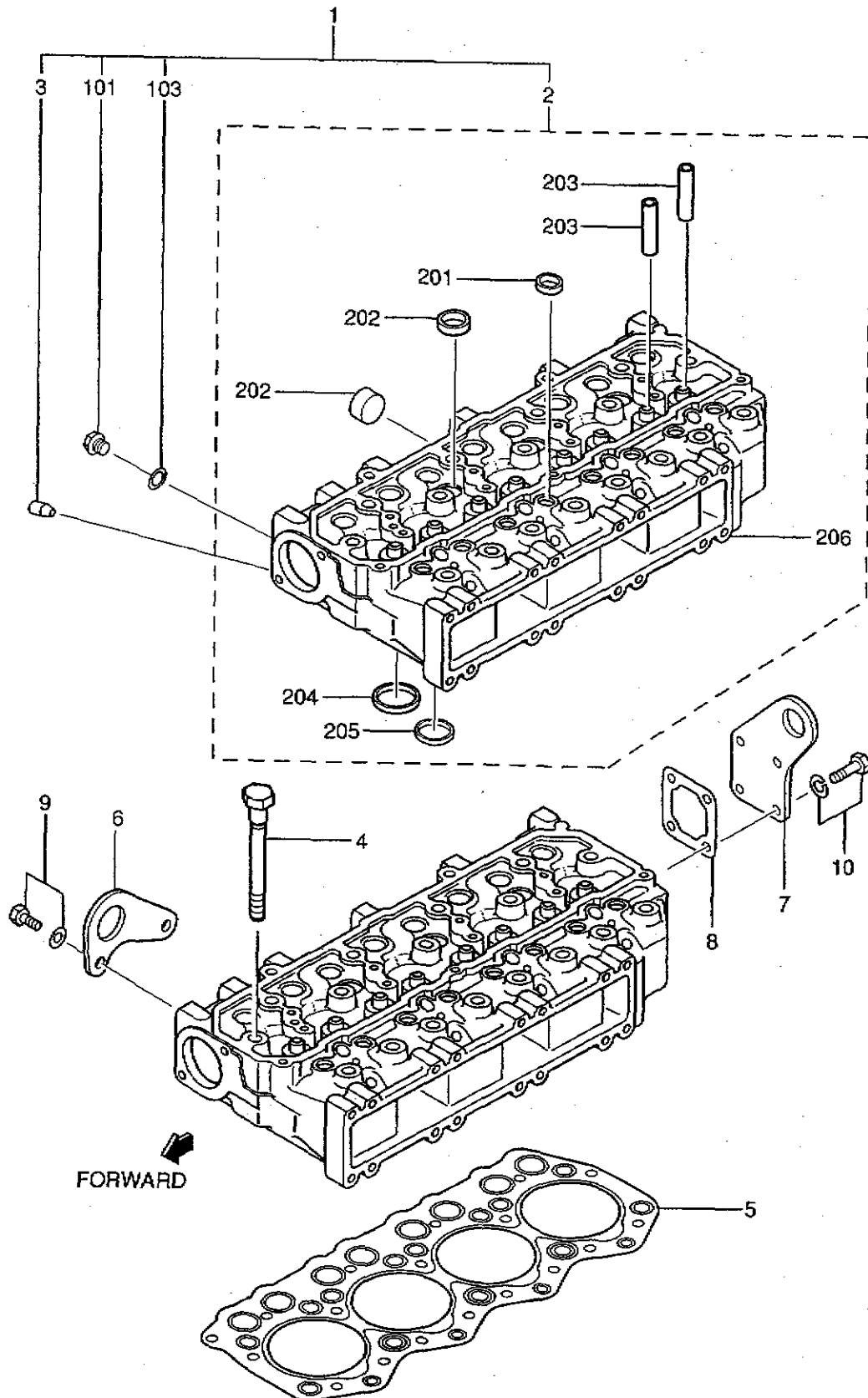
01-01 CYLINDER HEAD
(FOR 1, 2)

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01-02

CYLINDER HEAD
(FOR 3)

- 4 -



CYLINDER HEAD
(FOR 3)

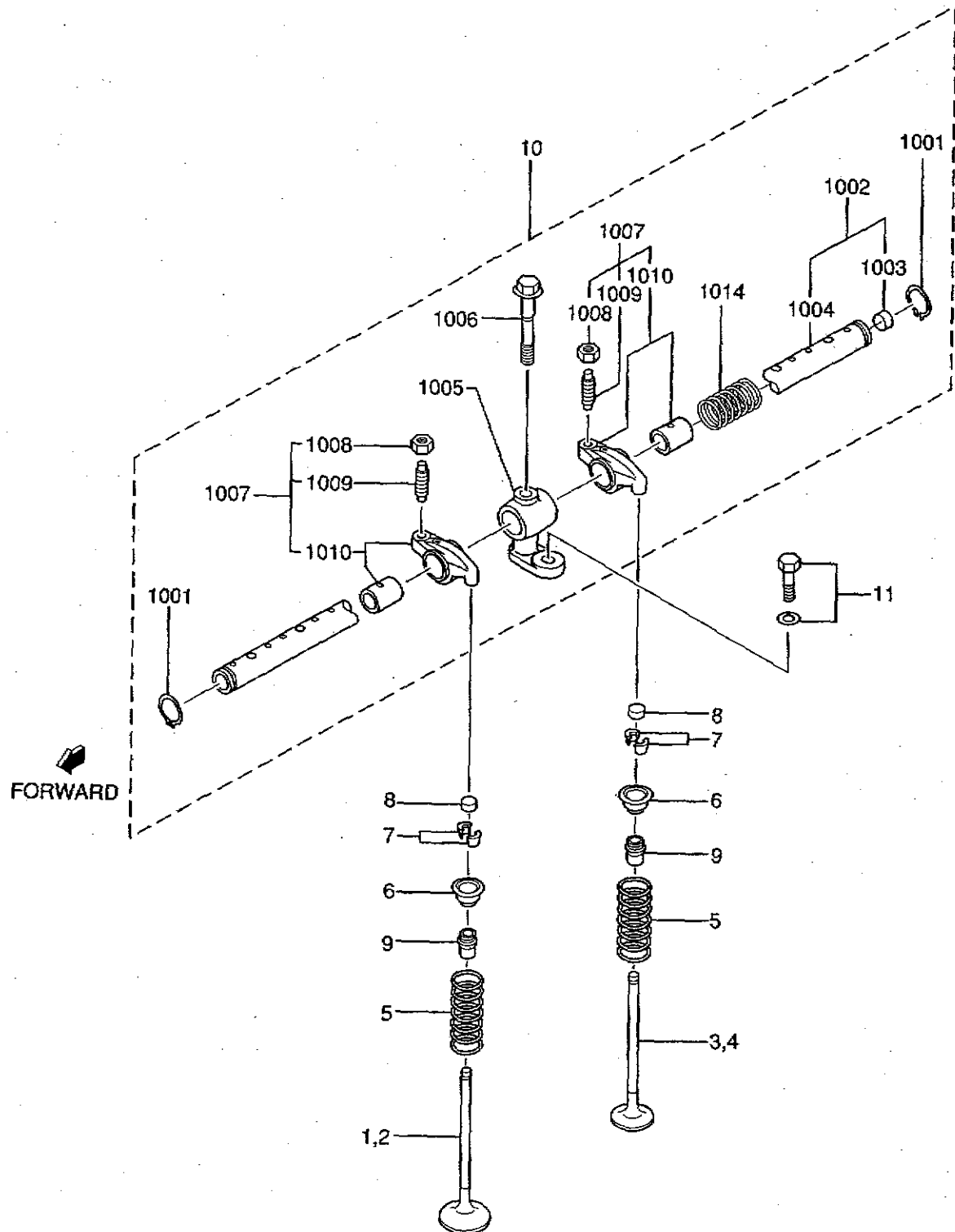
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REF. NO.	PART NO.	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.	
			1	2	3	FROM@-	-@UPTO
1	32A01-06021	HEAD ASSY,CYLINDER	.	.	1		
101	MM316248	PLUG,DRAIN	.	.	1		
103	30636-25901	GASKET	.	.	1		
2	*	HEAD SUB ASSY,CYL	.	.	1		
201	04826-22000	CAP,SEALING	.	.	12		
202	04826-22500	CAP,SEALING	.	.	7		
203	32A01-01600	GUIDE,VALVE	.	.	8		
204	32A01-03100	SEAT,VALVE,INLET	.	.	4		
205	32A01-03200	SEAT,VALVE,EXHAUST	.	.	4		
206	*	CYLINDER HEAD	.	.	1		
3	*	PLUG	.	.	1		
4	32A01-01400	BOLT,CYLINDER HEAD	.	.	17		
5	32A01-02203	GASKET,CYLINDER HEAD	.	.	1		
6	32A01-02700	EYE,LIFTING FRONT	.	.	1		
7	32A01-02800	EYE,LIFTING REAR	.	.	1		
8	32A01-02501	GASKET,HEAD REAR	.	.	1		
9	F1805-08016	BOLT,W/WASHER	.	.	2		
10	F1805-08020	BOLT,W/WASHER	.	.	4		

04-01

VALVE MECHANISM

- 6-

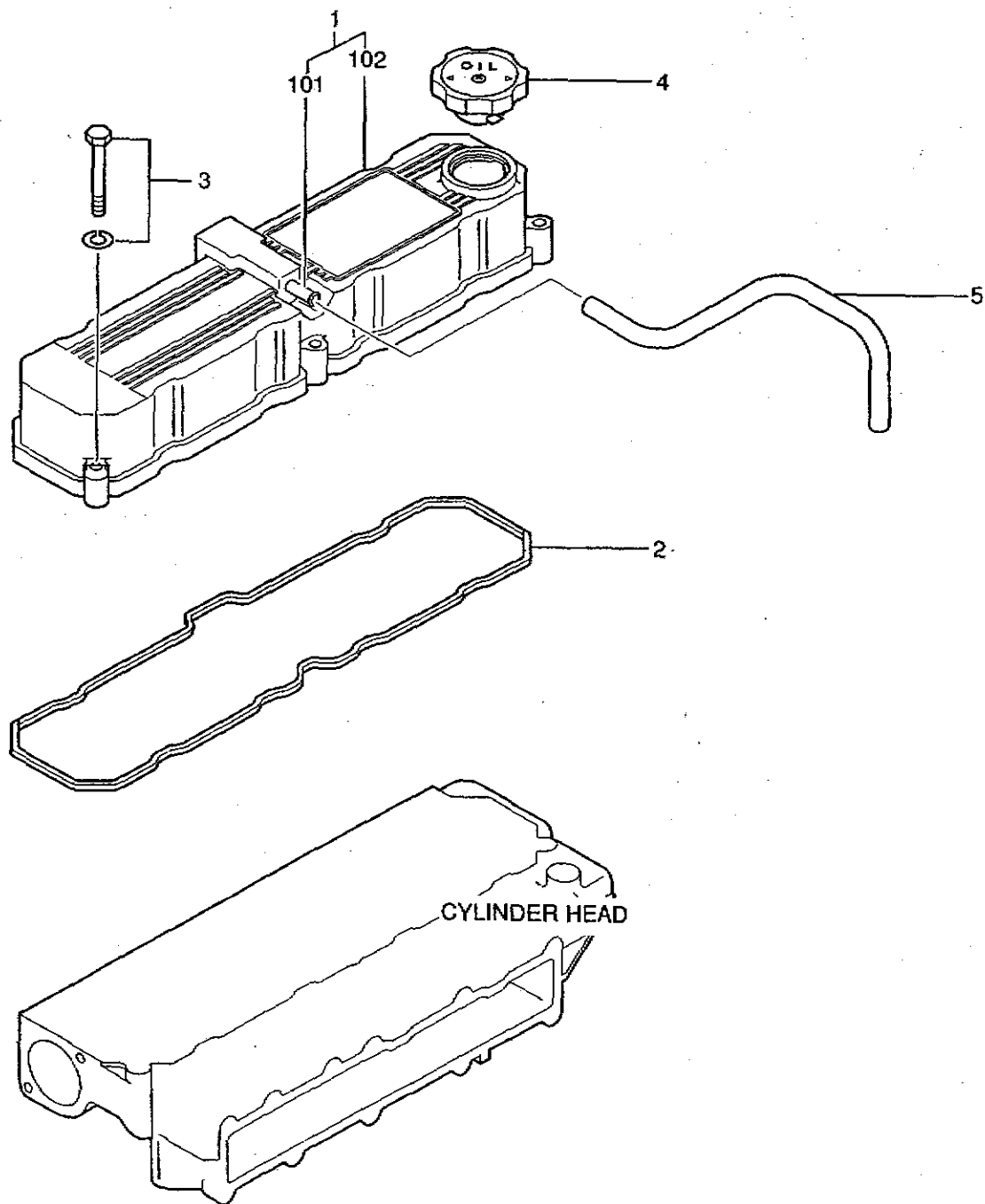


04-01 VALVE MECHANISM

REF. -NO.	PART NO.	RSC /EN PQG	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		MV /R RD
				1	2	3	FROM@-	-@UPTO	
1	32A04-00202		VALVE, INLET	4	4	.			
2	32A04-10101		VALVE, INLET	.	.	4			
3	32A04-01202		VALVE, EXHAUST	4	4	.			
4	32A04-11101		VALVE, EXHAUST	.	.	4			
5	30604-21402		SPRING, VALVE	8	8	8			A
6	30604-31601		RETAINER, UPPER	8	8	8			
7	34404-02901		COTTER, VALVE	16	16	16			A
8	31304-11700		CAP	8	8	8			
9	32A04-02801		SEAL, VALVE STEM	8	8	8			
10	32A04-20020		ROCKER & SHAFT ASSY	1	1	1			
1001	MF522010		RING, SNAP	2	2	2			A
1002	32A04-04011		SHAFT ASSY, ROCKER	1	1	1			
1003	04826-21200		CAP, SEALING	2	2	2			
1004	*		SHAFT, ROCKER	1	1	1			
1005	32A04-04701		BRACKET, ROCKER SHAFT	4	4	4			
1006	32A04-04801		BOLT, ROCKER BRACKET	4	4	4			
1007	32A04-22010		ROCKER ASSY	8	8	8			
1008	F2325-08000		NUT, JAM	8	8	8			A
1009	32A04-02401		SCREW, ROCKER	8	8	8			
1010	*		ROCKER & BUSHING	8	8	8			
1014	32C04-04501		SPRING, ROCKER	3	3	3			
11	F1805-08025		BOLT, W/WASHER B/W	4	4	4			A

04-02-01 ROCKER COVER & BREATHER
(FOR 1, 2)

- 8-



1. S4S-Y165DG
2. S4S-Y165DP
3. S4S-Y1DT65DG

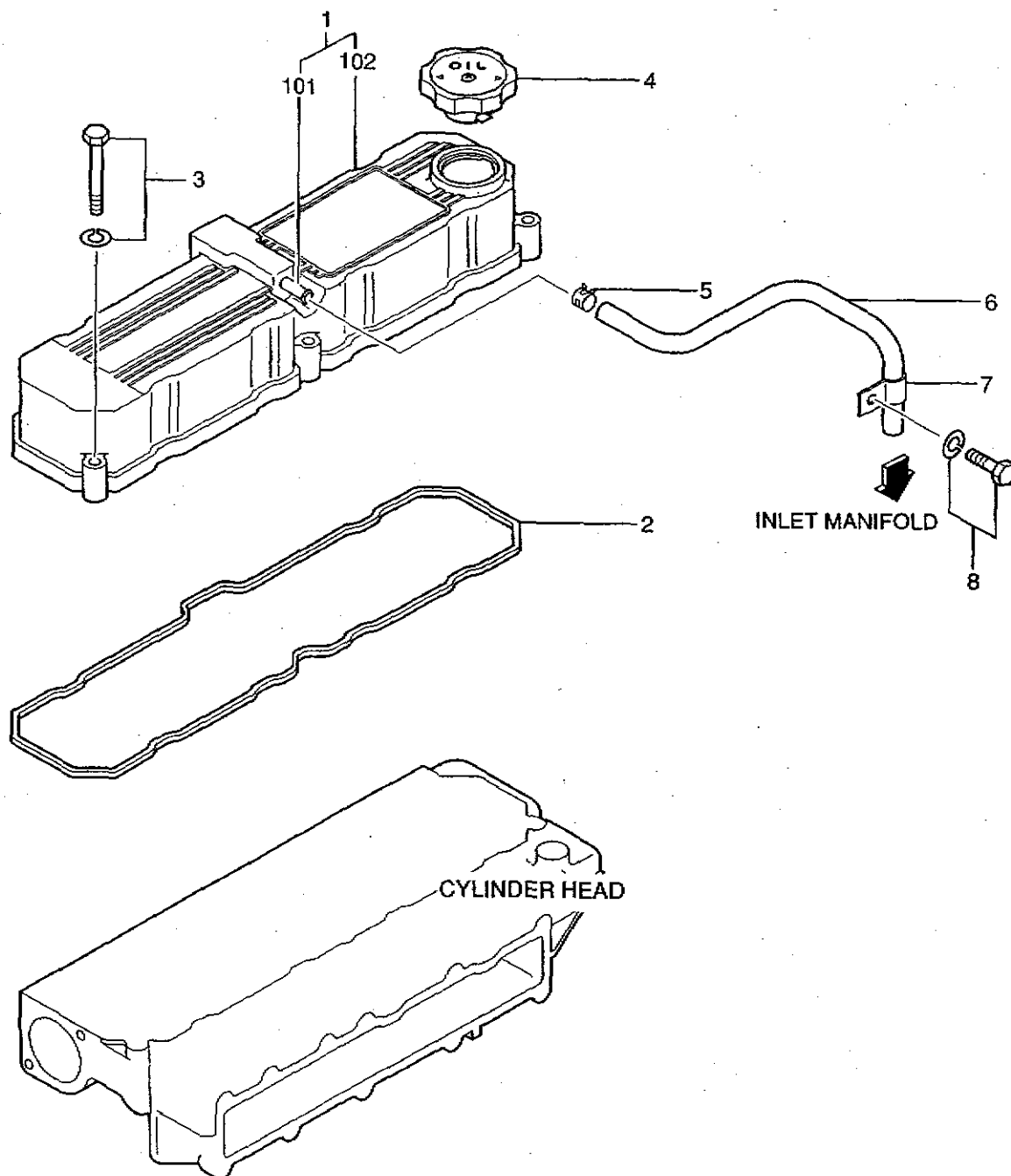
04-02-01 ROCKER COVER & BREATHER
(FOR 1, 2)

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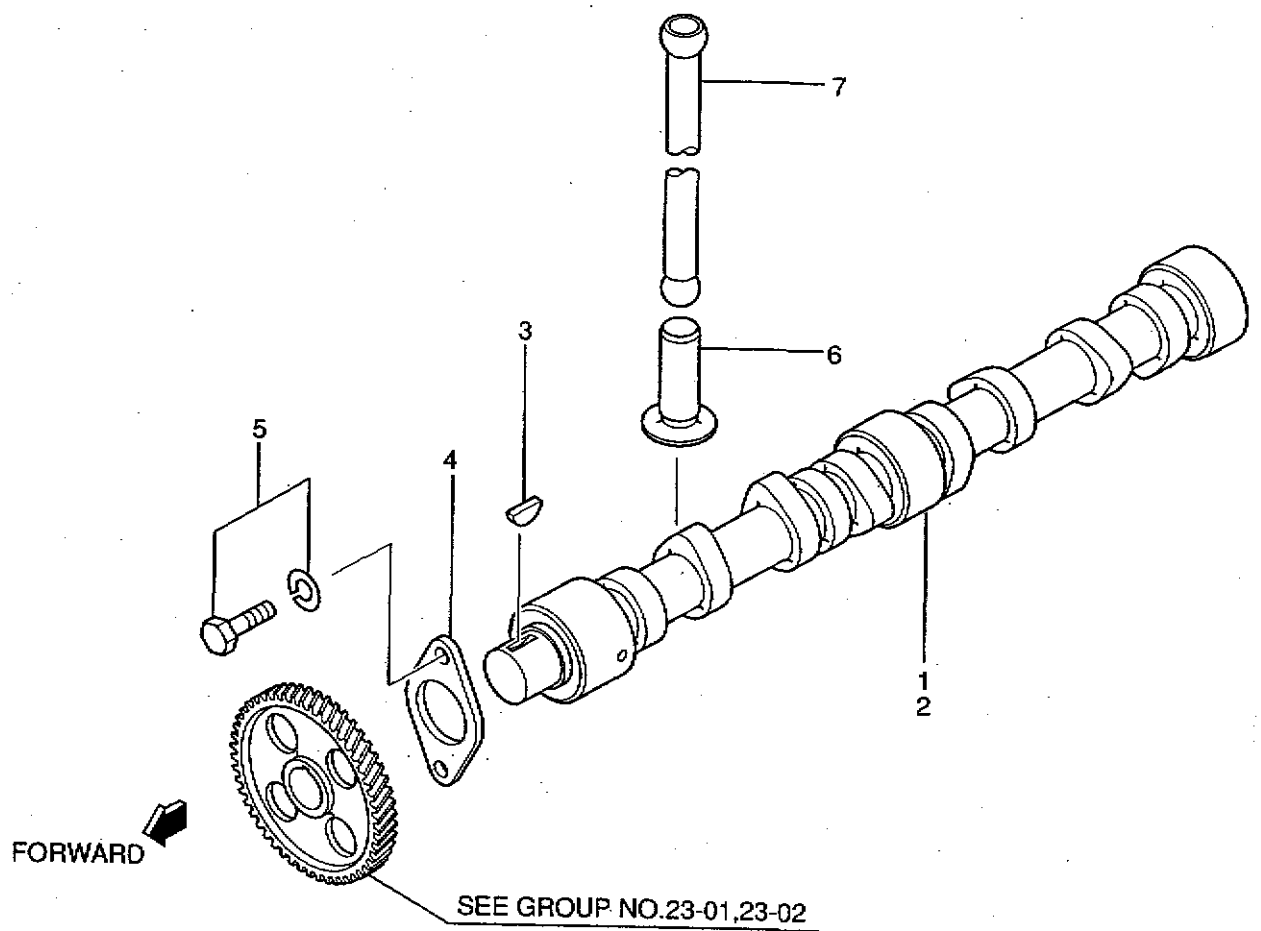
04-02-02 ROCKER COVER & BREATHER
(FOR 3)

- 10-



04-02-02 ROCKER COVER & BREATHER
 (FOR 3)

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3.S4S-Y1DT65DG

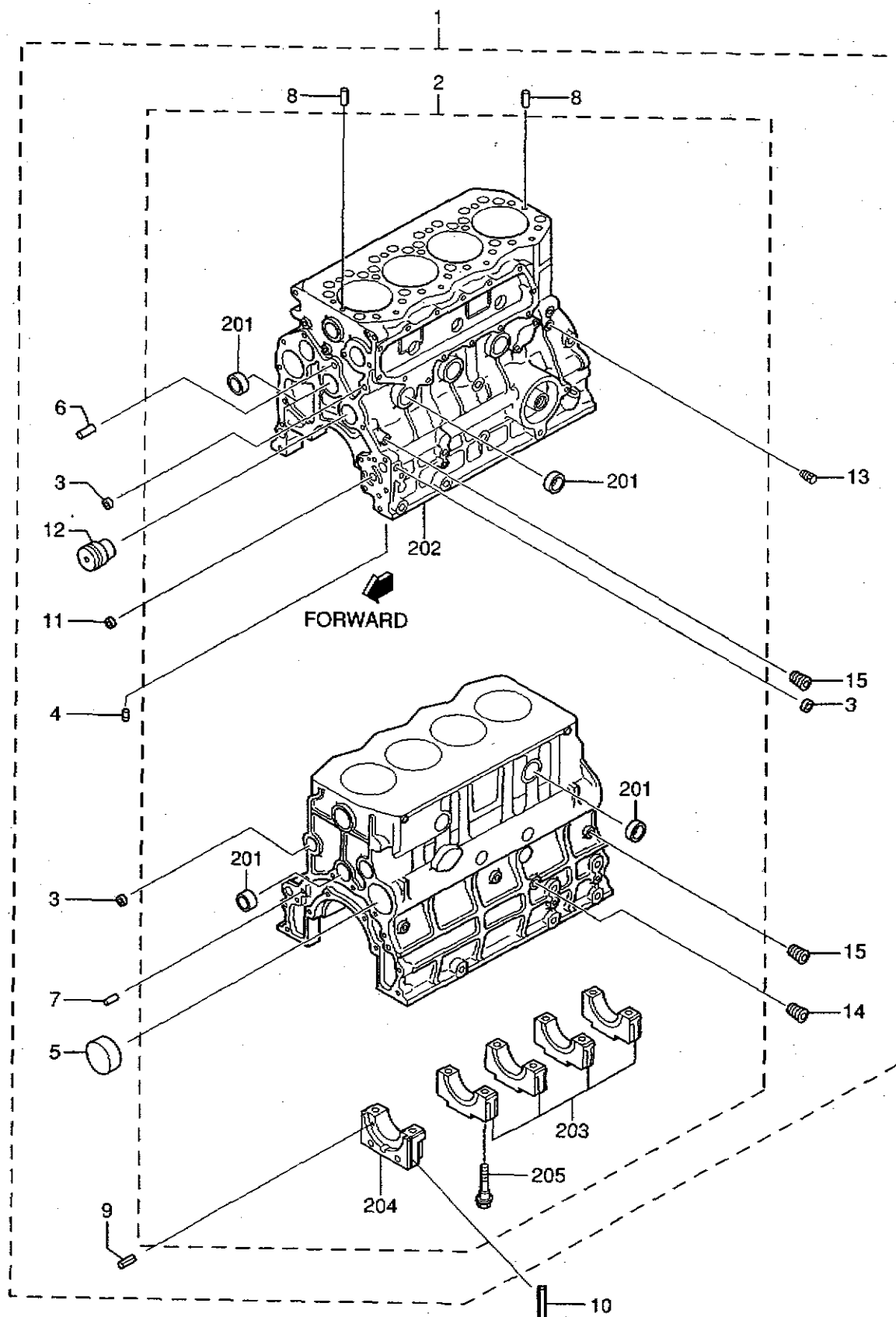
CAMSHAFT

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07-01-01 CRANKCASE ASSY
(FOR 1, 2)

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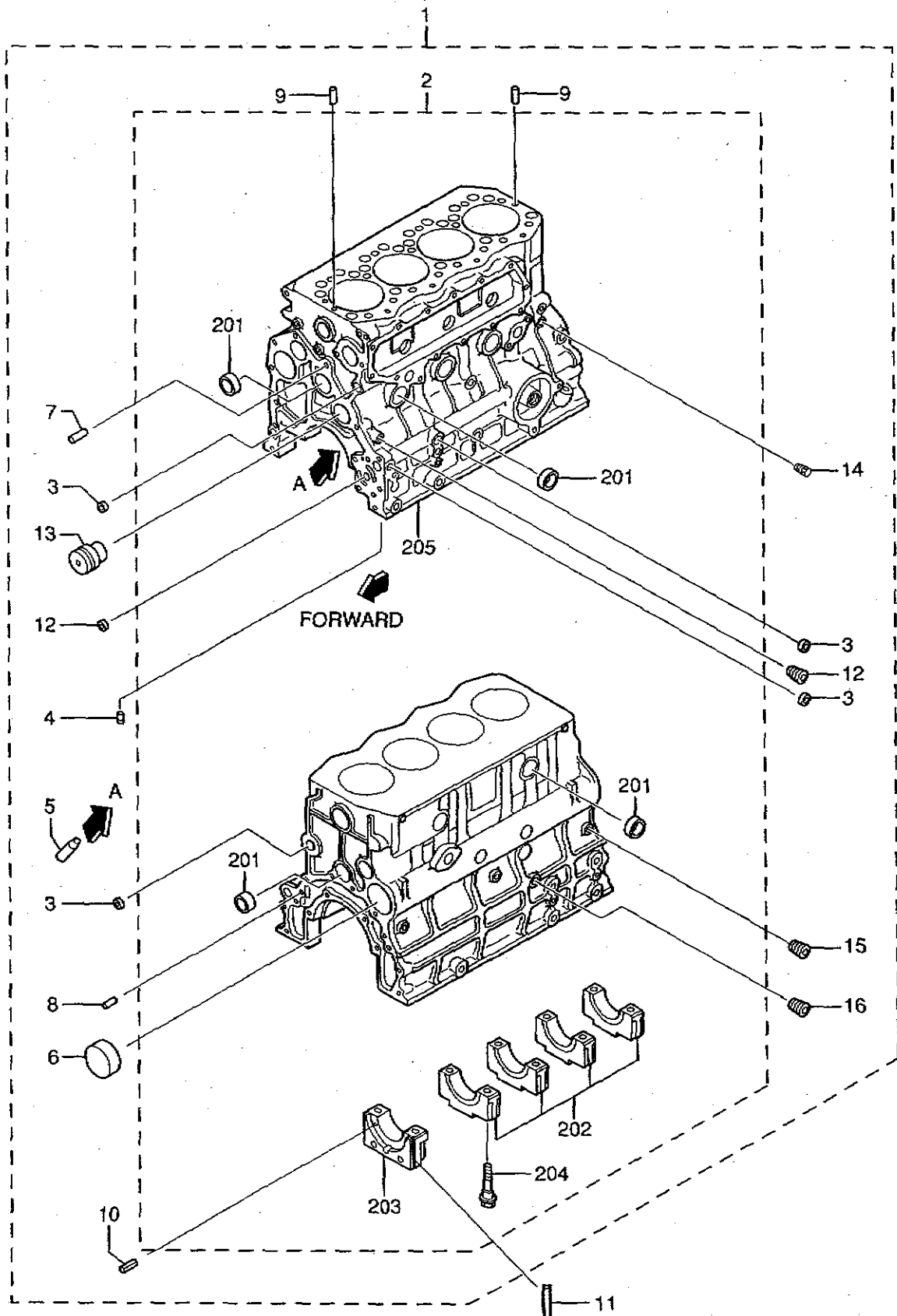


07-01-01 CRANKCASE ASSY
(FOR 1, 2)

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07-01-02 CRANKCASE ASSY
(FOR 3)

- 16-



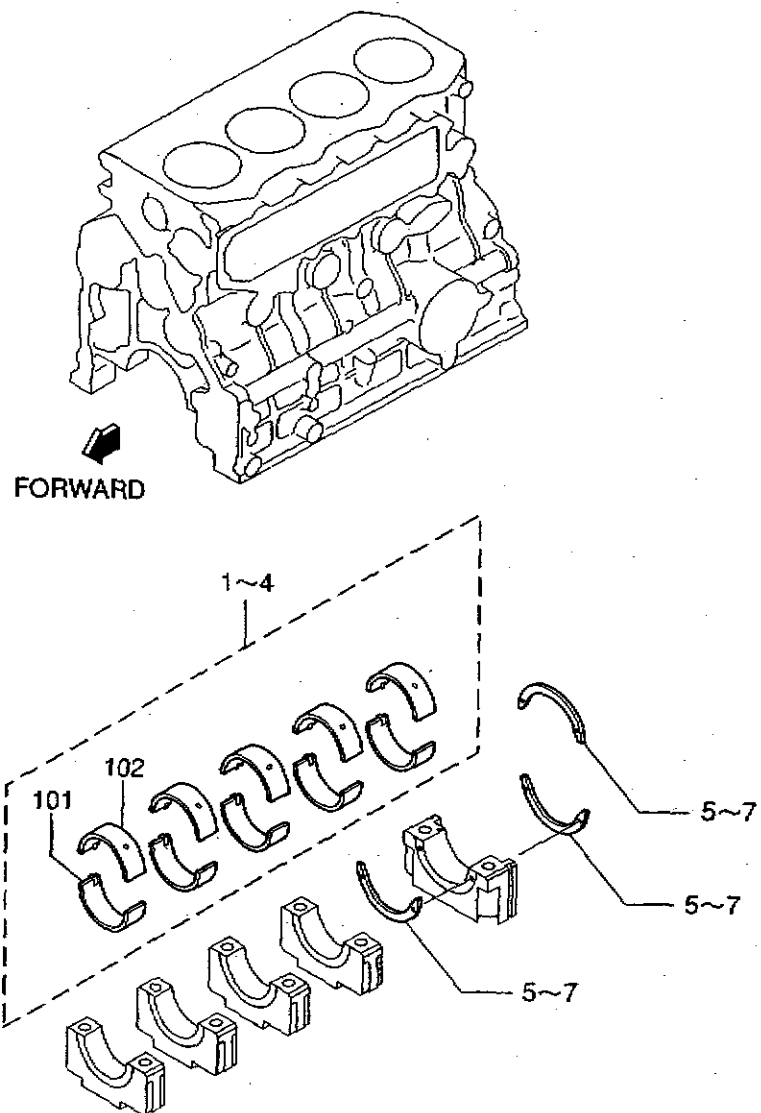
07-01-02 CRANKCASE ASSY
(FOR 3)

REF. NO.	PART NO.	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		MY RD
			1	2	3	FROM@-	-@UPTO	
1	32A07-04013	CRANKCASE ASSY	.	.	1			
2	*	CRANKCASE SUB ASSY	.	.	1			
201	04826-23500	CAP,SEALING	.	.	10			
202	*	CAP,METAL	.	.	4			
203	*	CAP,METAL REAR	.	.	1			
204	32A07-02600	BOLT,METAL CAP	.	.	10			
205	*	CRANKCASE	.	.	1			
3	04826-21800	CAP,SEALING	.	.	6			
4	*	PLUG	.	.	3			
5	32A07-01800	VALVE,CHECK	.	.	4			
6	34307-02100	PLUG,CAM	.	.	1			
7	32A07-01501	PIN,DOWEL	.	.	2			
8	F2846-12000	PIN,DOWEL	.	.	2			
9	F2846-05000	PIN,DOWEL	.	.	2			
10	F2850-04008	PIN,SPRING	.	.	6			
11	32A07-11700	SEAL,SIDE	.	.	2			
12	05605-01410	BUSHING	.	.	1			
13	32A23-03500	SHAFT,IDLER	.	.	1			
14	MD000269	PLUG,TAPER	.	.	1			
15	MS661140	PLUG,TAPER	.	.	4			
16	MS661142	PLUG,TAPER	.	.	1			

07-02

MAIN METAL

- 18 -



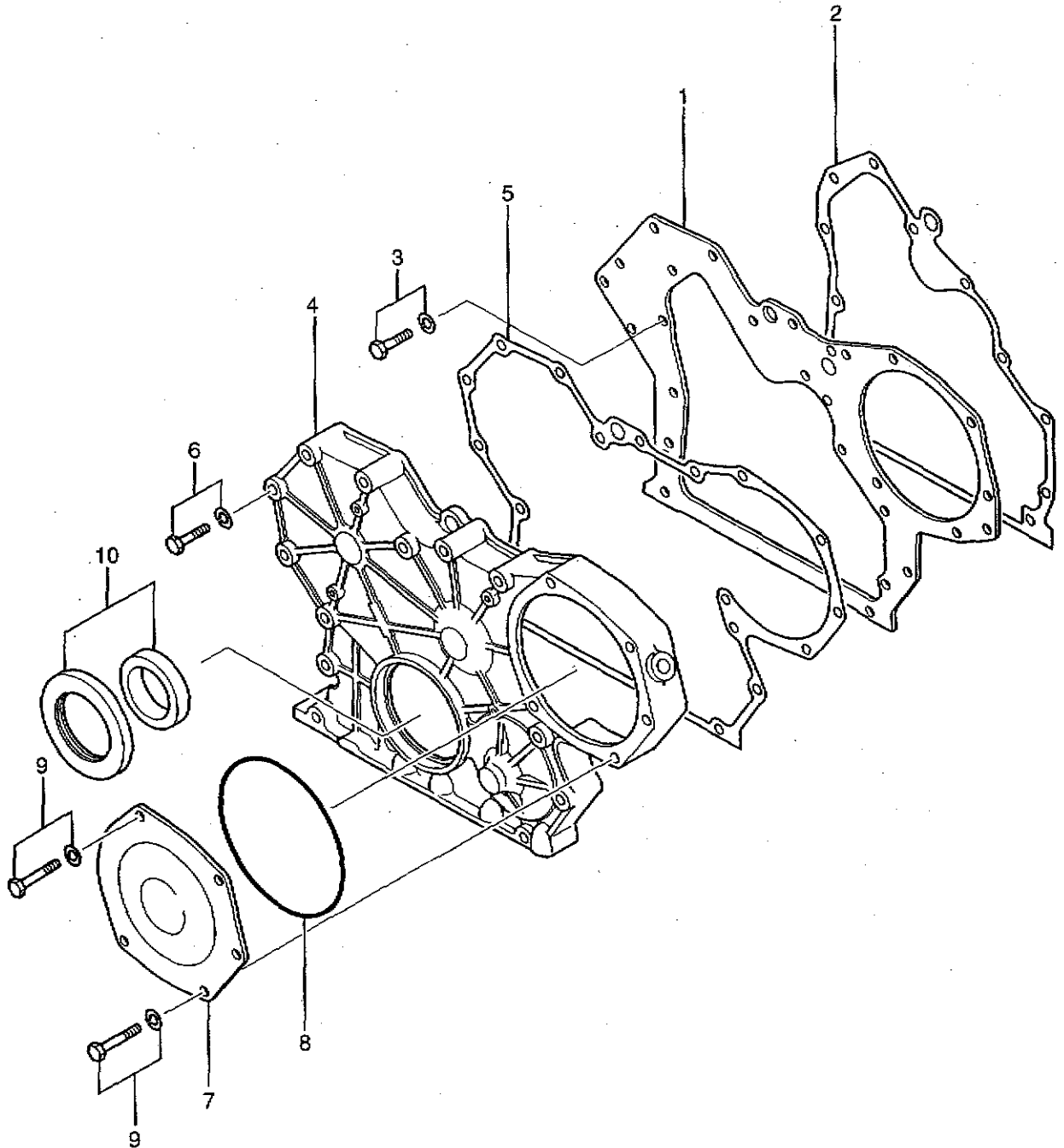
07-02 MAIN METAL

[illegible]

11-01

TIMING GEAR CASE
(FOR 1, 2)

- 20-



1. S4S-Y165DG
2. S4S-Y165DP
3. S4S-Y1DT65DG

11-01

TIMING GEAR CASE
(FOR 1, 2)

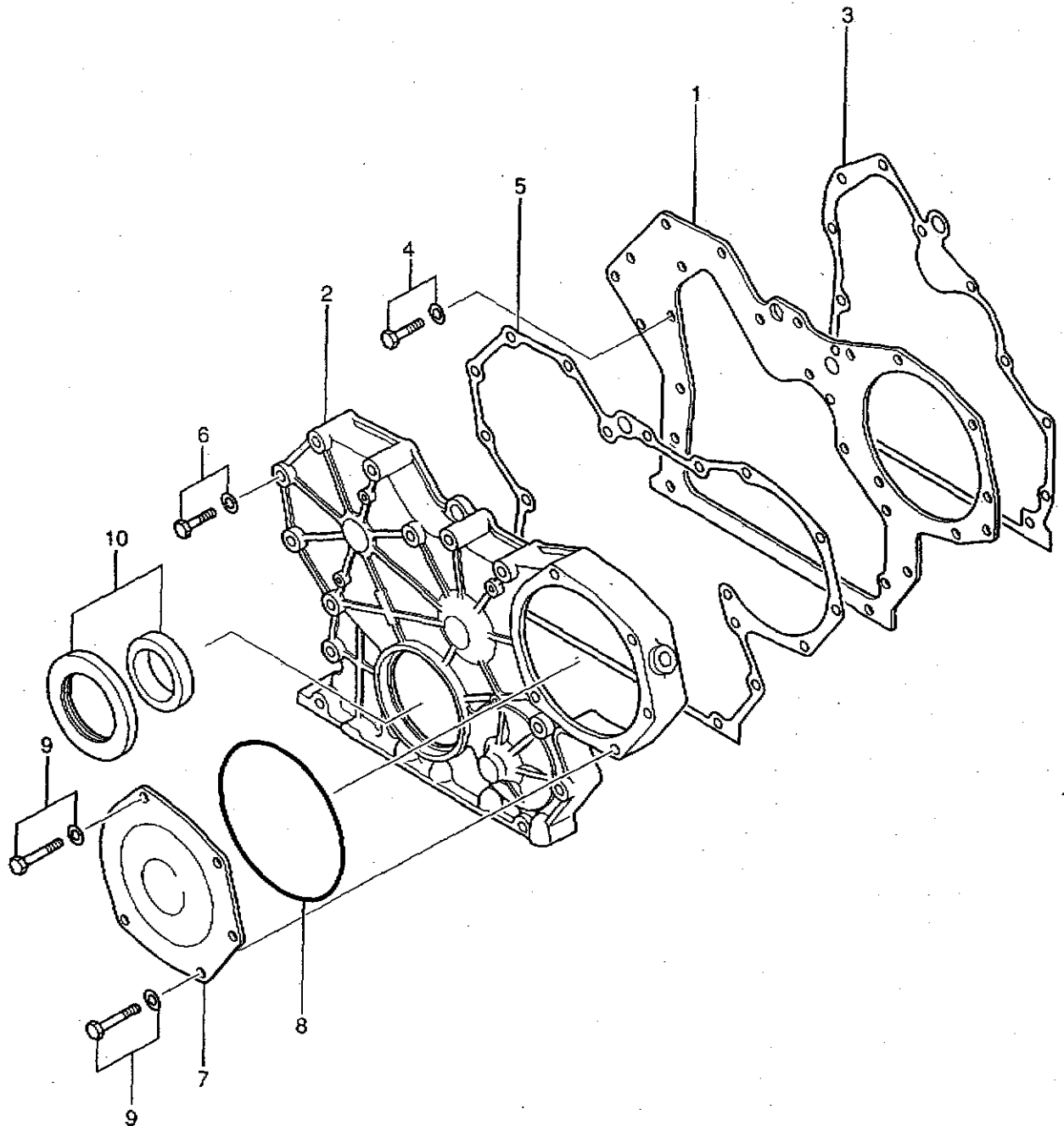
- 21-

[illegible]

11-02

TIMING GEAR CASE
(FOR 3)

- 22 -

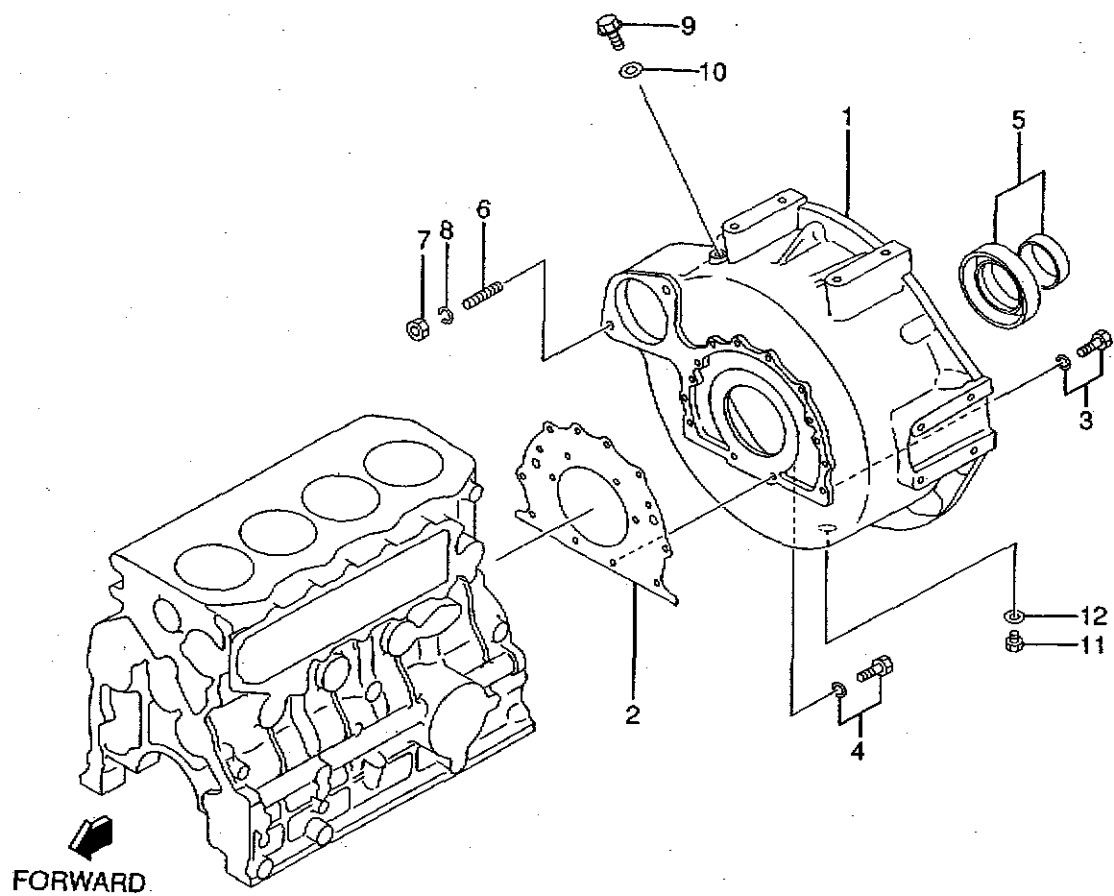


11-02

- 23-

02-06-11

615A02-00



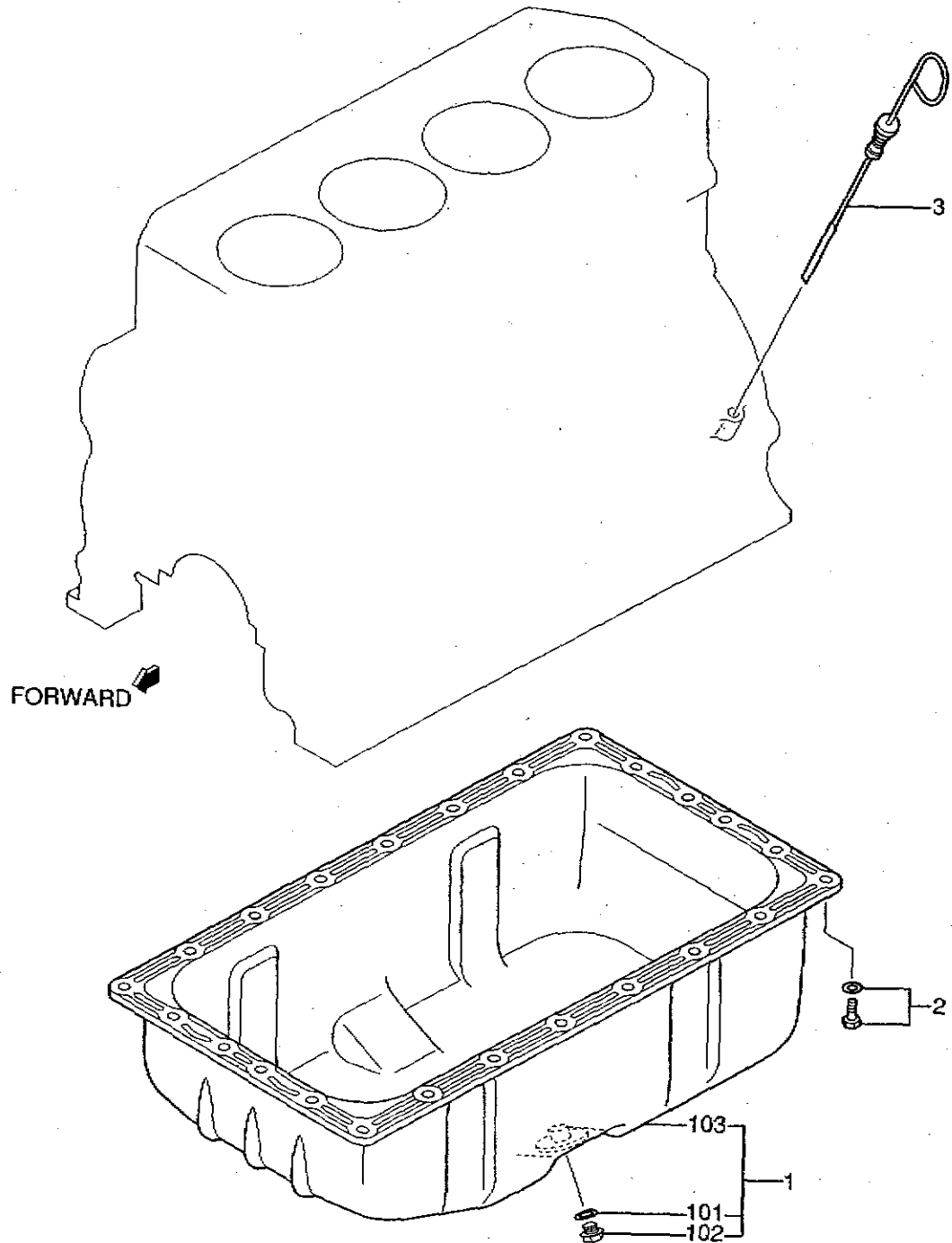
FLYWHEEL HOUSING

615A02-00

13

OIL PAN

- 26-



- 1.S4S-Y165DG
- 2.S4S-Y165DP
- 3.S4S-Y1DT65DG

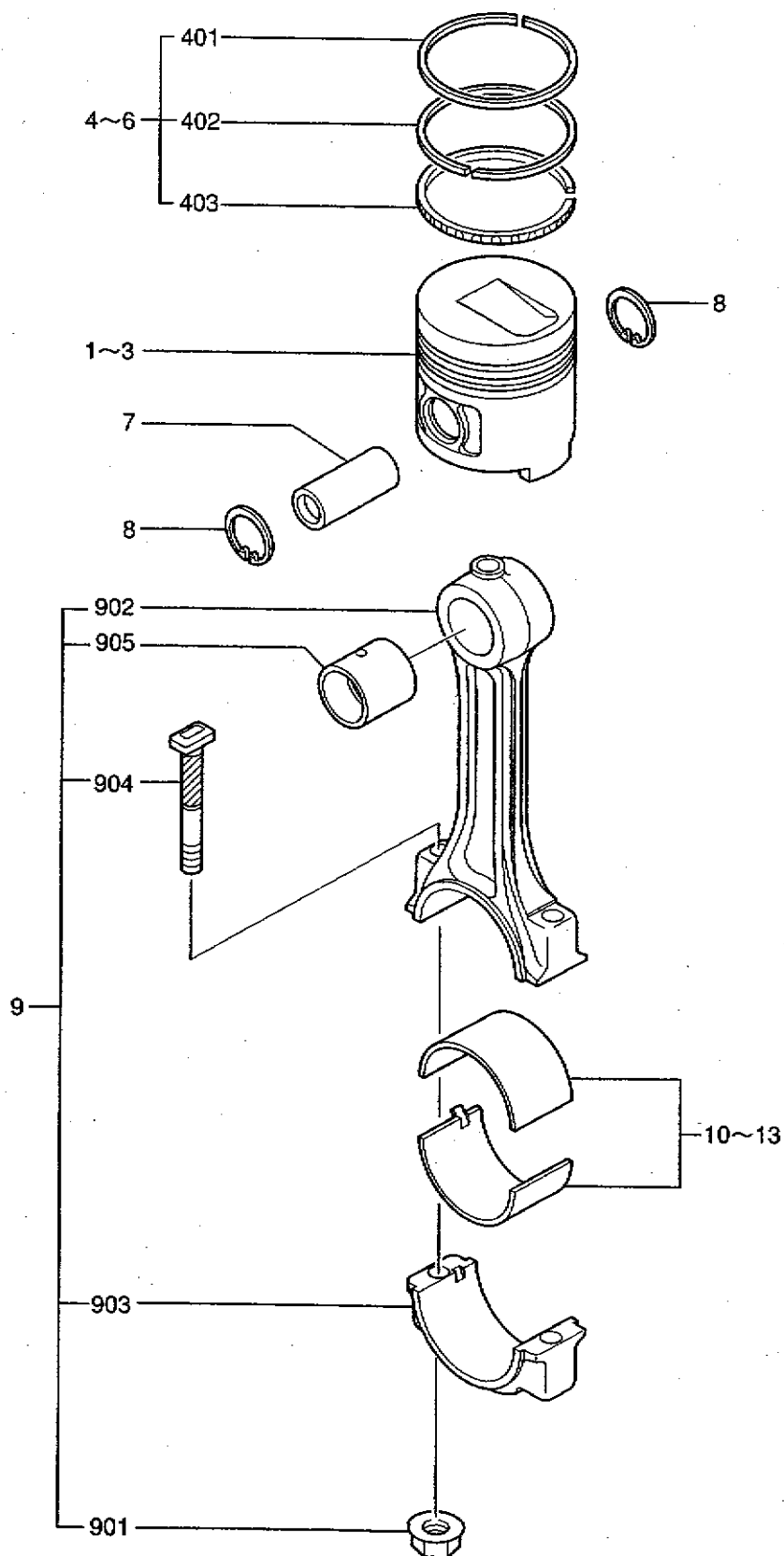
OIL PAN

- 27-

[illegible]

17-01

PISTON & CONNECTING ROD (FOR 1, 2)



- 1.S4S-Y165DG
- 2.S4S-Y165DP
- 3.S4S-Y1DT65DG

17-01'

PISTON & CONNECTING ROD
(FOR 1, 2)

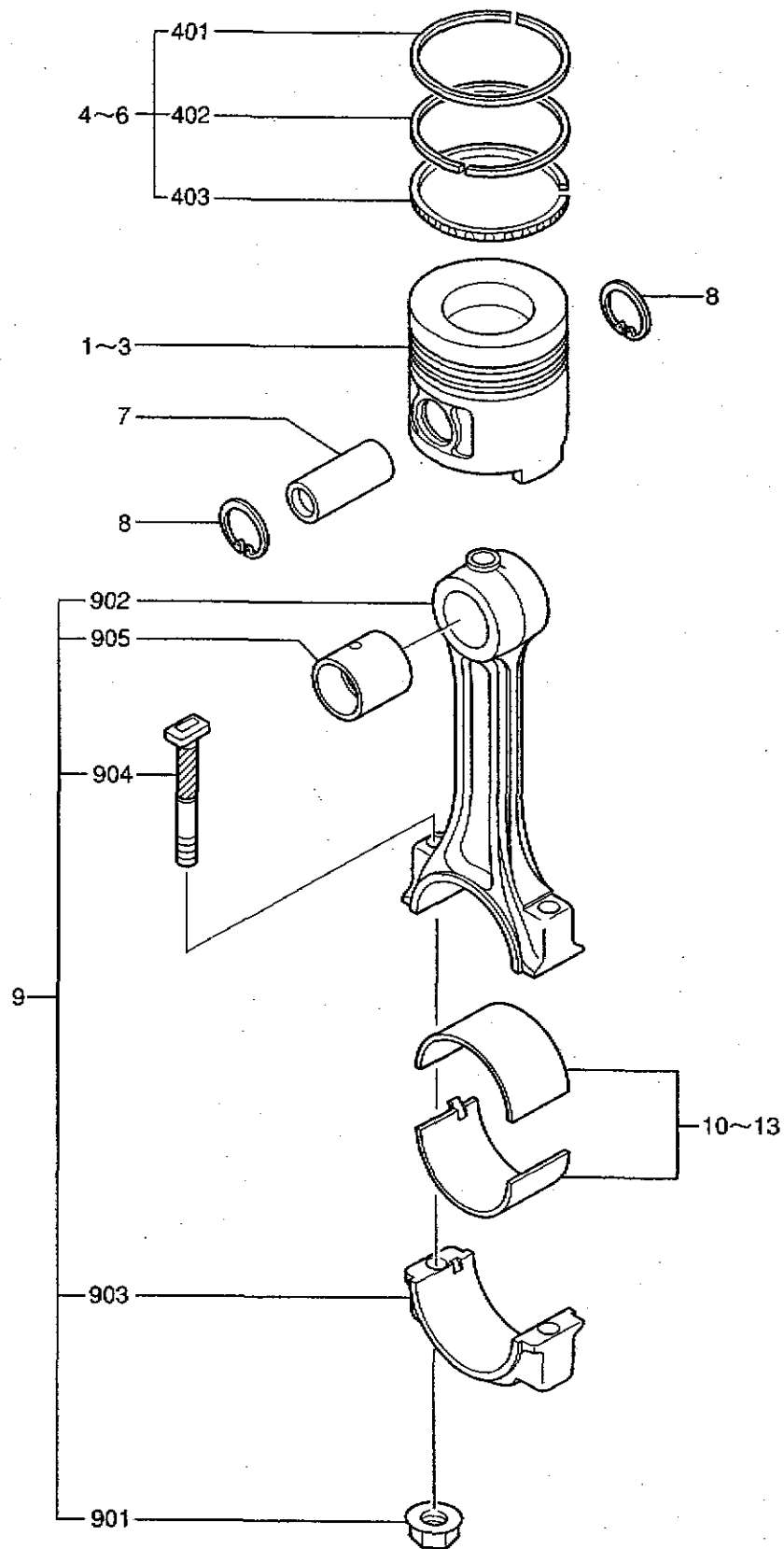
- 29 -

REF. NO.	PART NO.	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		MY MR RD
			1	2	3	FROM@ - @UPTO		
1	32A17-00100	PISTON STD	4	4	.			A
2	32A17-00200	PISTON O.S 0.25	4	4	.			A
3	32A17-00300	PISTON O.S 0.50	4	4	.			A
4	34417-02012	RING SET,PISTON STD	4	4	.			A
401	*	RING,NO.1	4	4	.			
402	*	RING,NO.2	4	4	.			
403	*	RING,OIL	4	4	.			
5	34417-02022	RING SET,PISTON O.S 0.25	4	4	.			A
6	34417-02032	RING SET,PISTON O.S 0.50	4	4	.			A
7	32A17-08200	PIN,PISTON	4	4	.			A
8	F3202-03000	RING,SNAP	8	8	.			A
9	32A19-00011	ROD ASSY,CONNECTING	4	4	.			
901	30619-10501	NUT,CONNECTING ROD	8	8	.			A
902	*	CONNECTING ROD	4	4	.			
903	*	CAP,CONNECTING ROD	4	4	.			
904	32A19-00400	BOLT,CONNECTING ROD	8	8	.			A
905	32A19-00500	BUSHING,CON-ROD	4	4	.			
10	32A19-09010	METAL SET,CON-ROD STD	1	1	.			
11	32A19-09020	METAL SET,CON-ROD U.S 0.25	1	1	.			
12	32A19-09030	METAL SET,CON-ROD U.S 0.50	1	1	.			
13	32A19-09040	METAL SET,CON-ROD U.S 0.75	1	1	.			

17-02

PISTON & CONNECTING ROD
(FOR 3)

- 30-



- 1.S4S-Y165DG
- 2.S4S-Y165DP
- 3.S4S-Y1DT65DG

17-02

PISTON & CONNECTING ROD
(FOR 3)

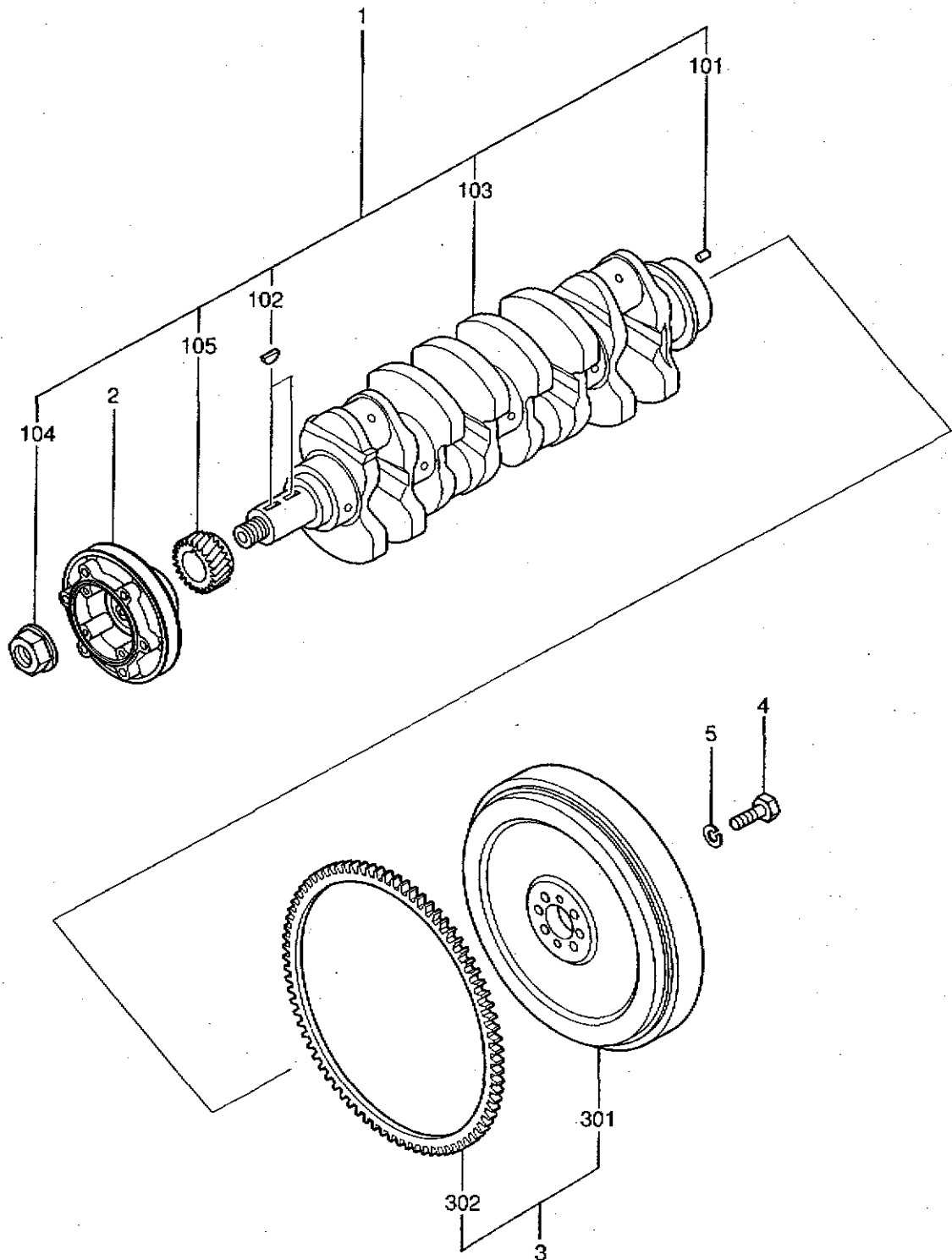
- 31-

REF. NO.	PART NO.	RSC P/Q	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		M/R RD
				1	2	3	FROM@-	-@UPTO	
1	32B17-06100		PISTON STD	.	.	4			A
2	32B17-06200		PISTON O.S 0.25	.	.	4			A
3	32B17-06300		PISTON O.S 0.50	.	.	4			A
4	34417-02012		RING SET,PISTON STD	.	.	4			A
401	*		RING,NO.1	.	.	4			
402	*		RING,NO.2	.	.	4			
403	*		RING,OIL	.	.	4			
5	34417-02022		RING SET,PISTON O.S 0.25	.	.	4			A
6	34417-02032		RING SET,PISTON O.S 0.50	.	.	4			A
7	32A17-08200		PIN,PISTON	.	.	4			A
8	F3202-03000		RING,SNAP	.	.	8			A
9	32A19-00011		ROD ASSY,CONNECTING	.	.	4			
901	30619-10501		NUT,CONNECTING ROD	.	.	8			A
902	*		CONNECTING ROD	.	.	4			
903	*		CAP,CONNECTING ROD	.	.	4			
904	32A19-00400		BOLT,CONNECTING ROD	.	.	8			A
905	32A19-00500		BUSHING,CON-ROD	.	.	4			
10	32A19-09010		METAL SET,CON-ROD STD	.	.	1			
11	32A19-09020		METAL SET,CON-ROD U.S 0.25	.	.	1			
12	32A19-09030		METAL SET,CON-ROD U.S 0.50	.	.	1			
13	32A19-09040		METAL SET,CON-ROD U.S 0.75	.	.	1			

20-01

CRANKSHAFT & FLYWHEEL
(FOR 1, 2)

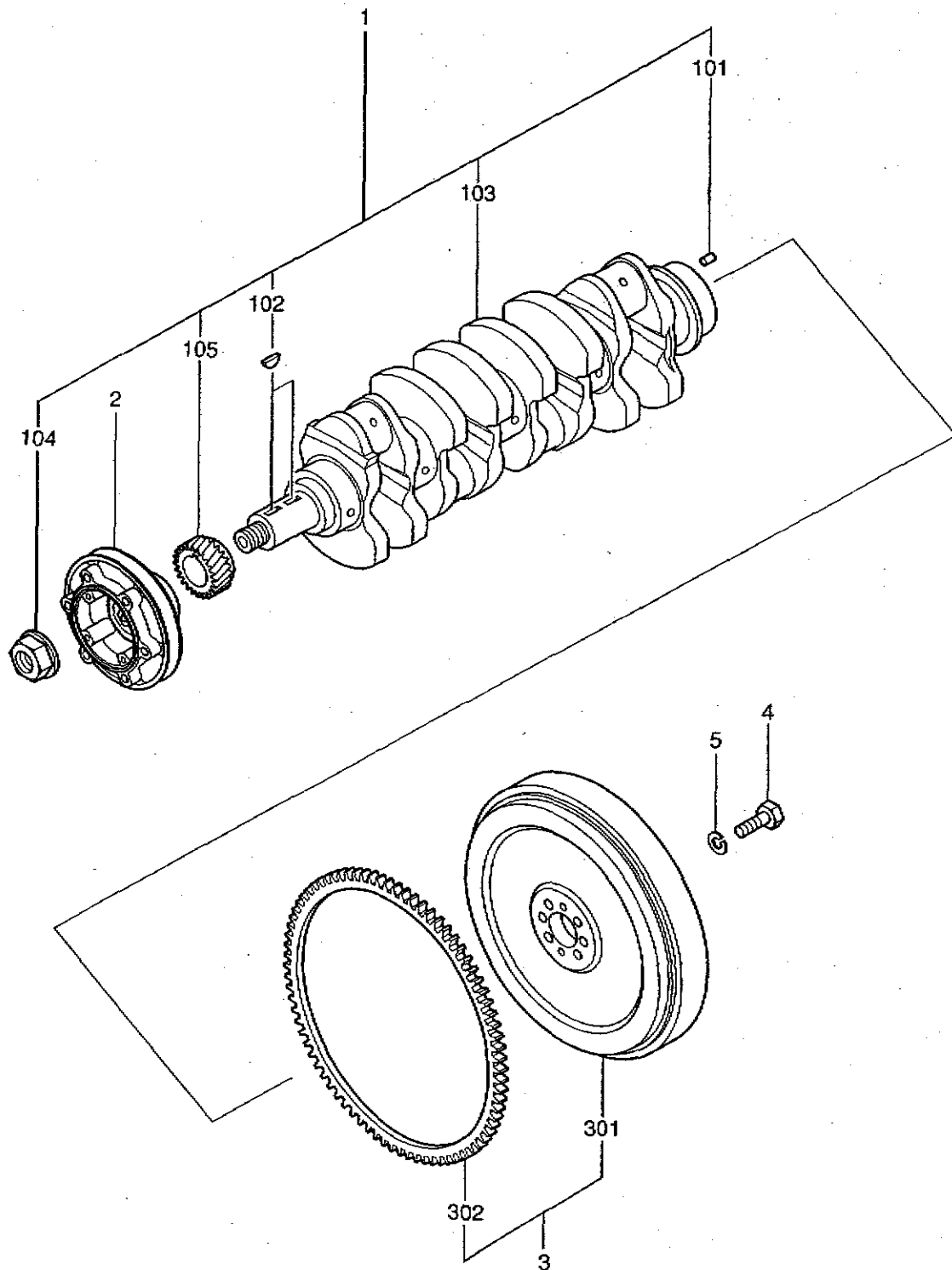
- 32 -



20-02

CRANKSHAFT & FLYWHEEL
(FOR 3)

- 34-



- 1.S4S-Y165DG
- 2.S4S-Y165DP
- 3.S4S-Y1DT65DG

20-02

CRANKSHAFT & FLYWHEEL
(FOR 3)

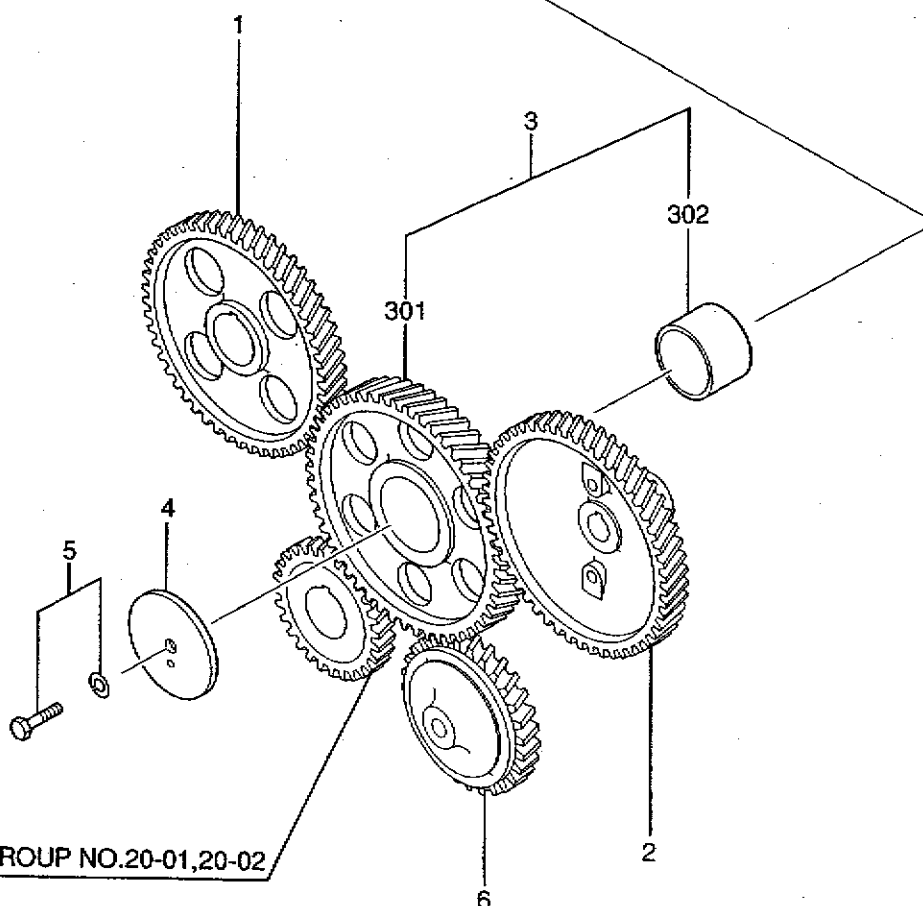
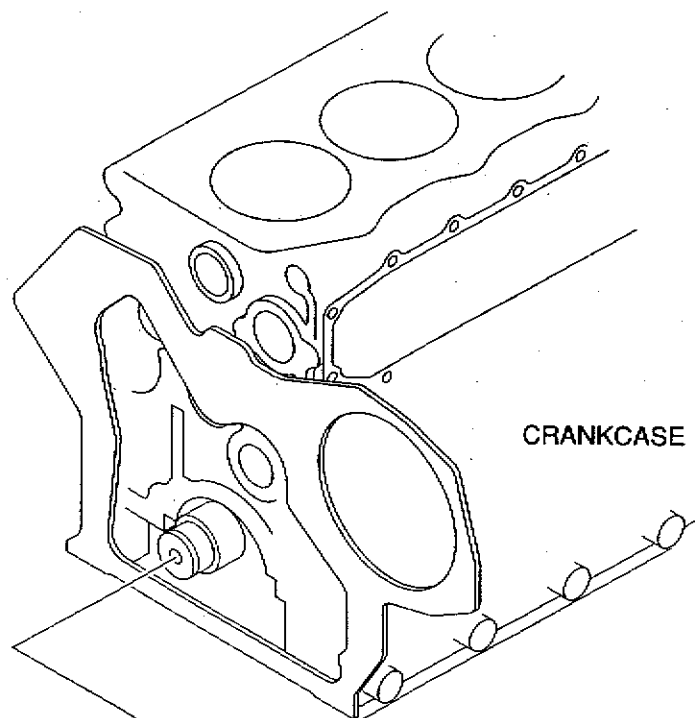
- 35-

[illegible]

23-01

TIMING GEAR
(FOR 1, 2)

- 36 -



- 1.S4S-Y165DG
- 2.S4S-Y165DP
- 3.S4S-Y1DT65DG

23-01

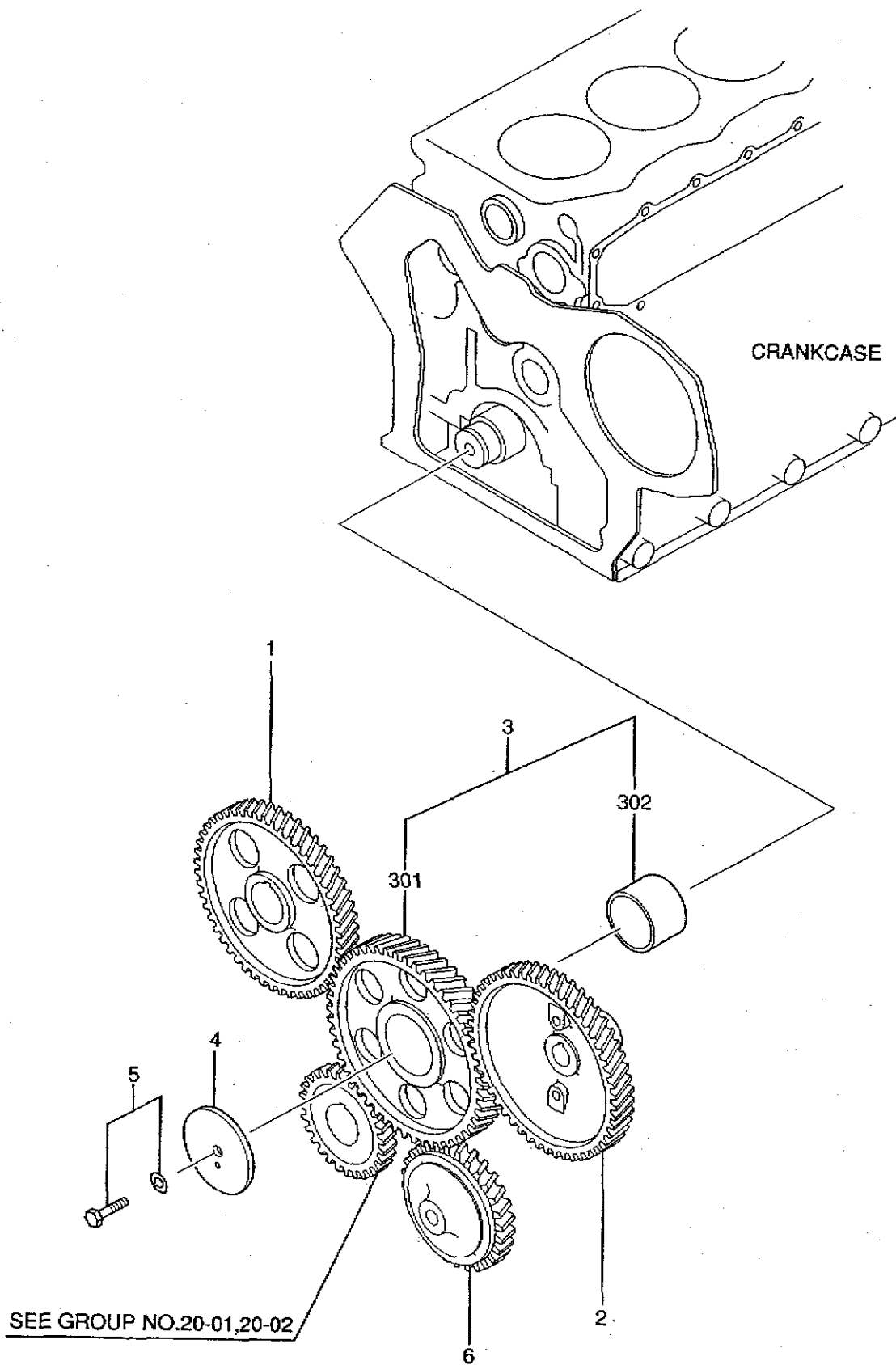
TIMING GEAR
 (FOR 1, 2)

- 37 -

[illegible]

23-02

TIMING GEAR
(FOR 3)



TIMING GEAR
(FOR 3)

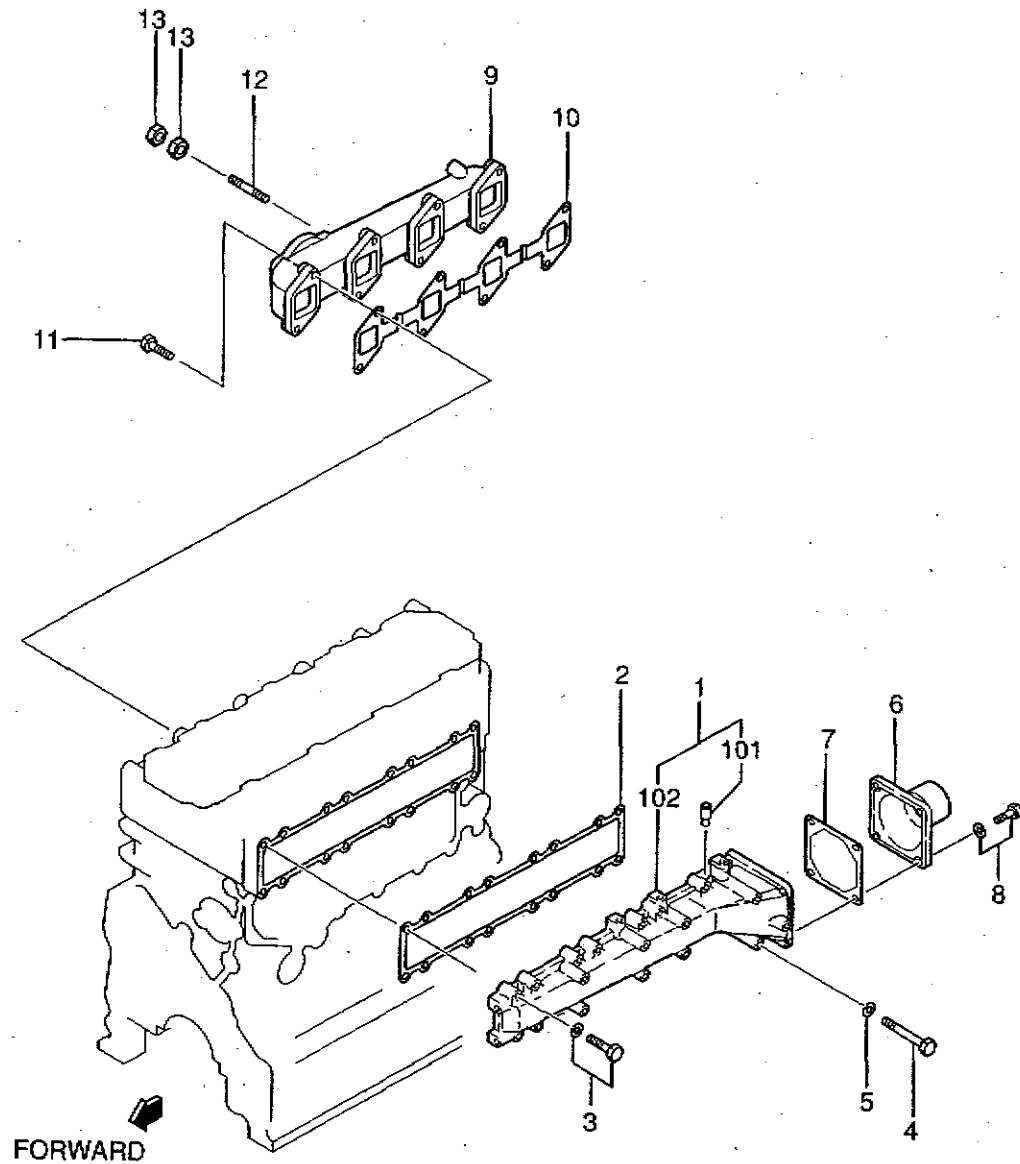
- 39-

[illegible]

30-01

INLET & EXHAUST SYSTEM (FOR 1, 2)

- 40 -



INLET & EXHAUST SYSTEM (FOR 1, 2)

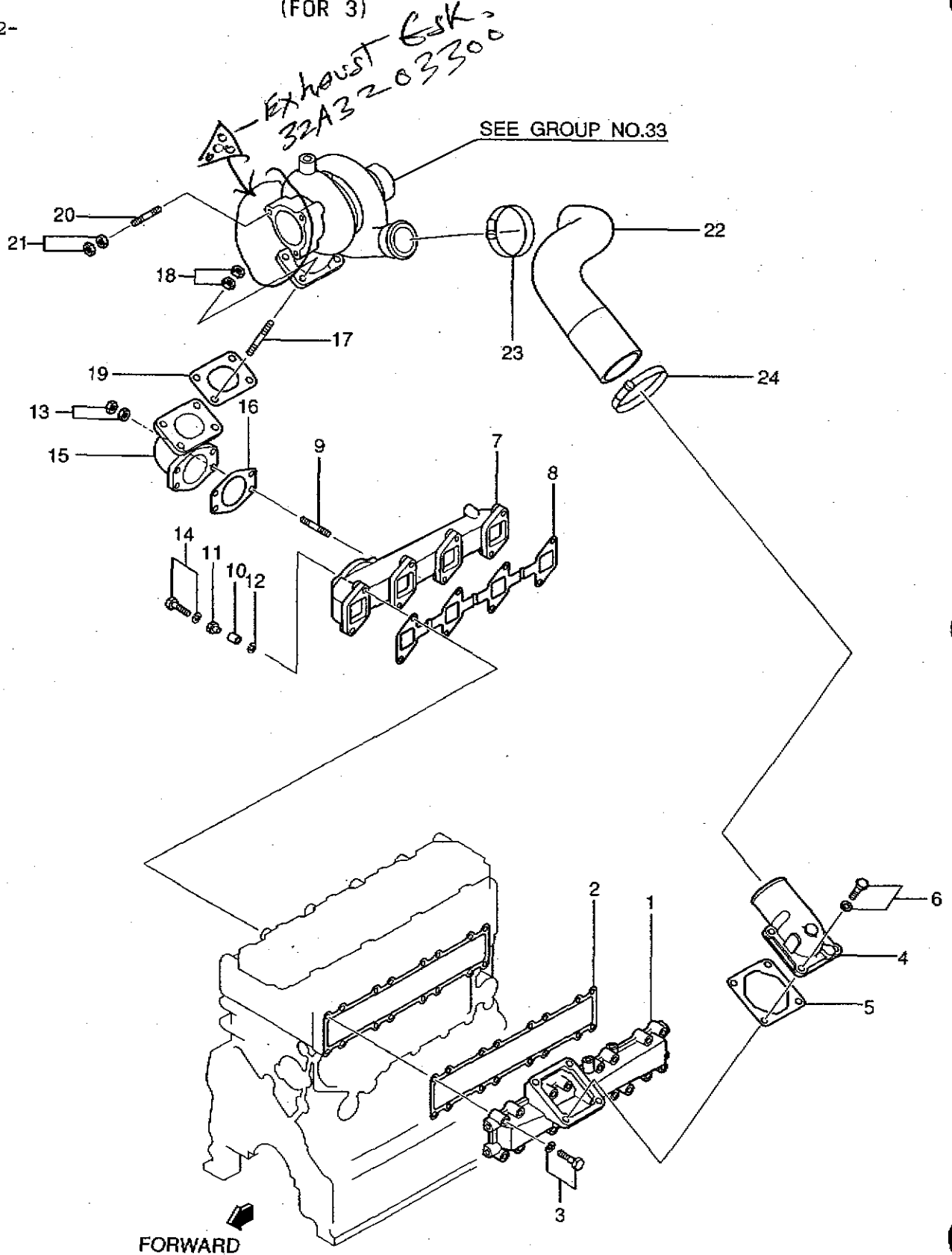
- 41 -

[illegible]

30-02

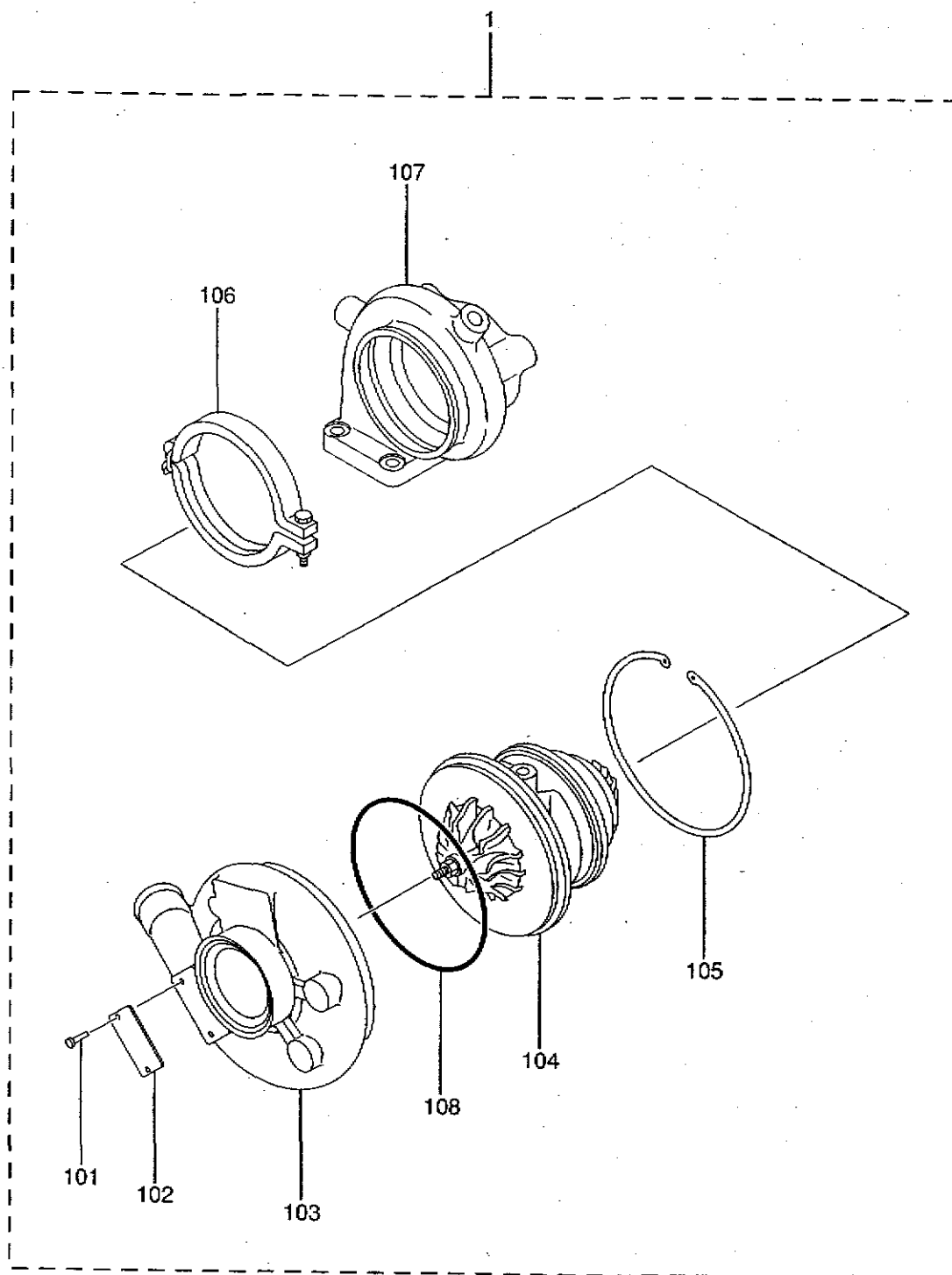
INLET & EXHAUST SYSTEM (FOR 3)

- 42-



30-02 INLET & EXHAUST SYSTEM
(FOR 3)

[illegible]



3.S4S-Y1DT65DG

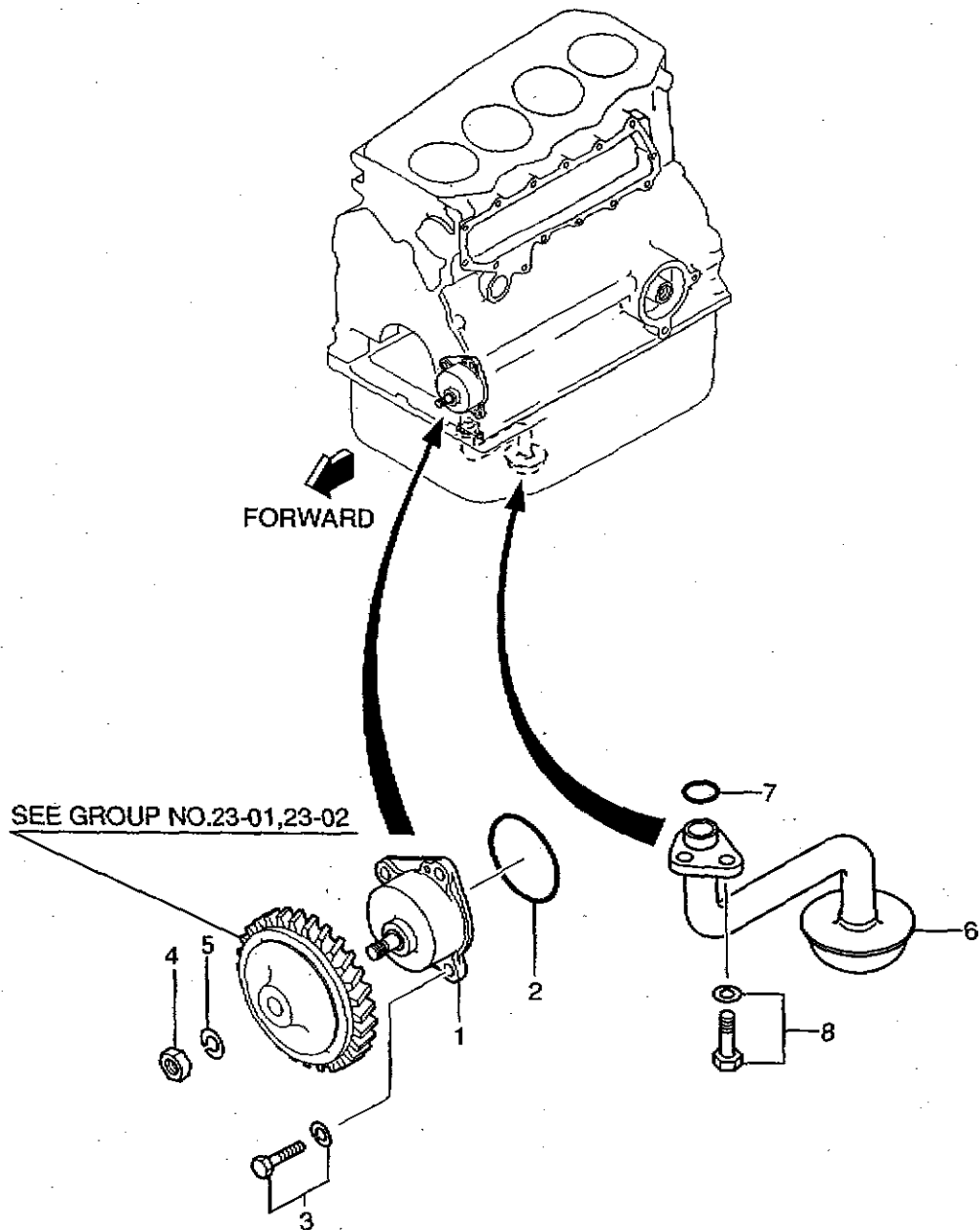
TURBOCHARGER (MODEL TD04HL)

- 45-

[illegible]

36-01-01 OIL PUMP & OIL STARINER
(FOR 1, 2)

- 46-

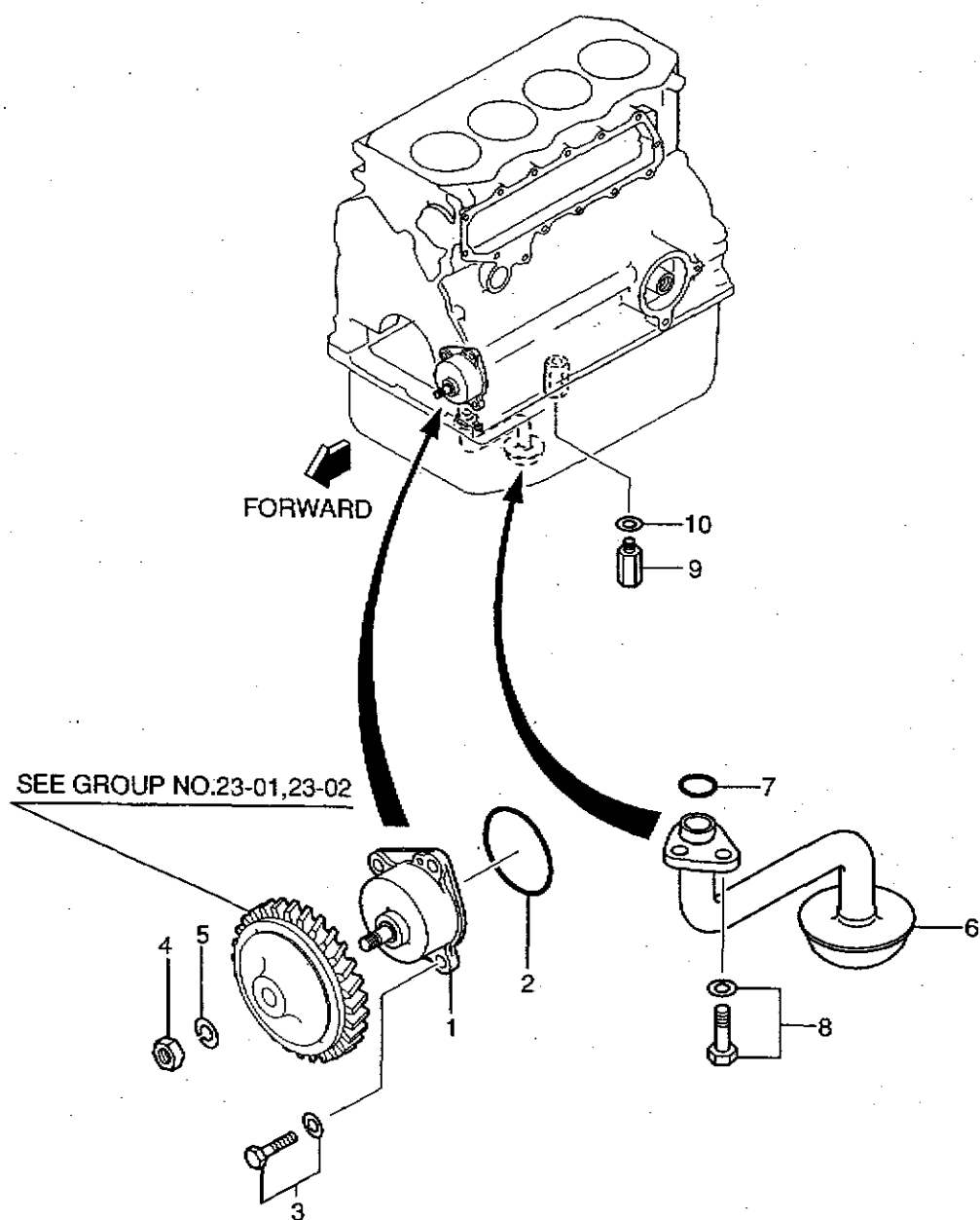


36-01-01 OIL PUMP & OIL STARINER
(FOR 1, 2)

[illegible]

36-01-02 OIL PUMP & OIL STARINER
(FOR 3)

- 48 -

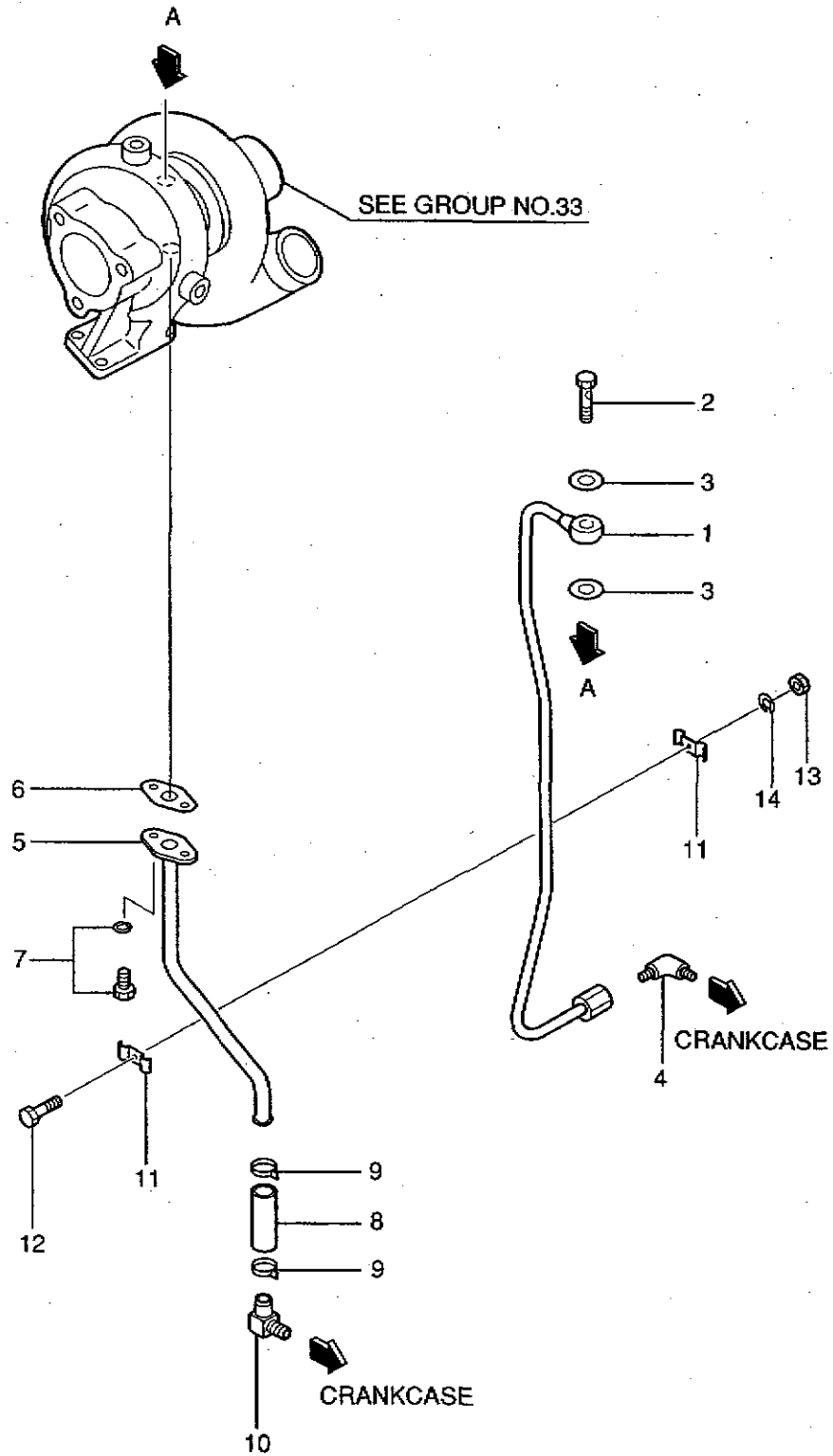


36-01-02 OIL PUMP & OIL STARINER
(FOR 3)

[illegible]

36-02 OIL PIPE

- 50-



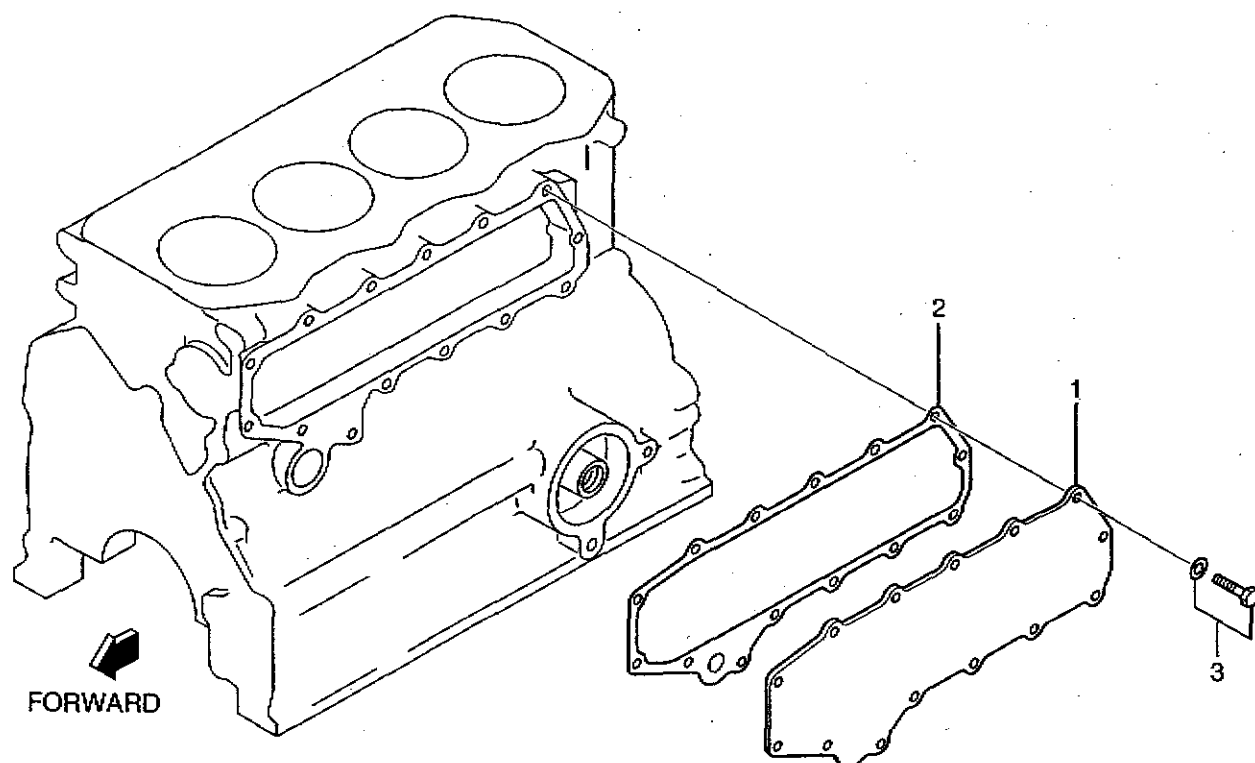
36-02 OIL PIPE

[illegible]

39-01

SIDE COVER
(FOR 1, 2)

~ 52~



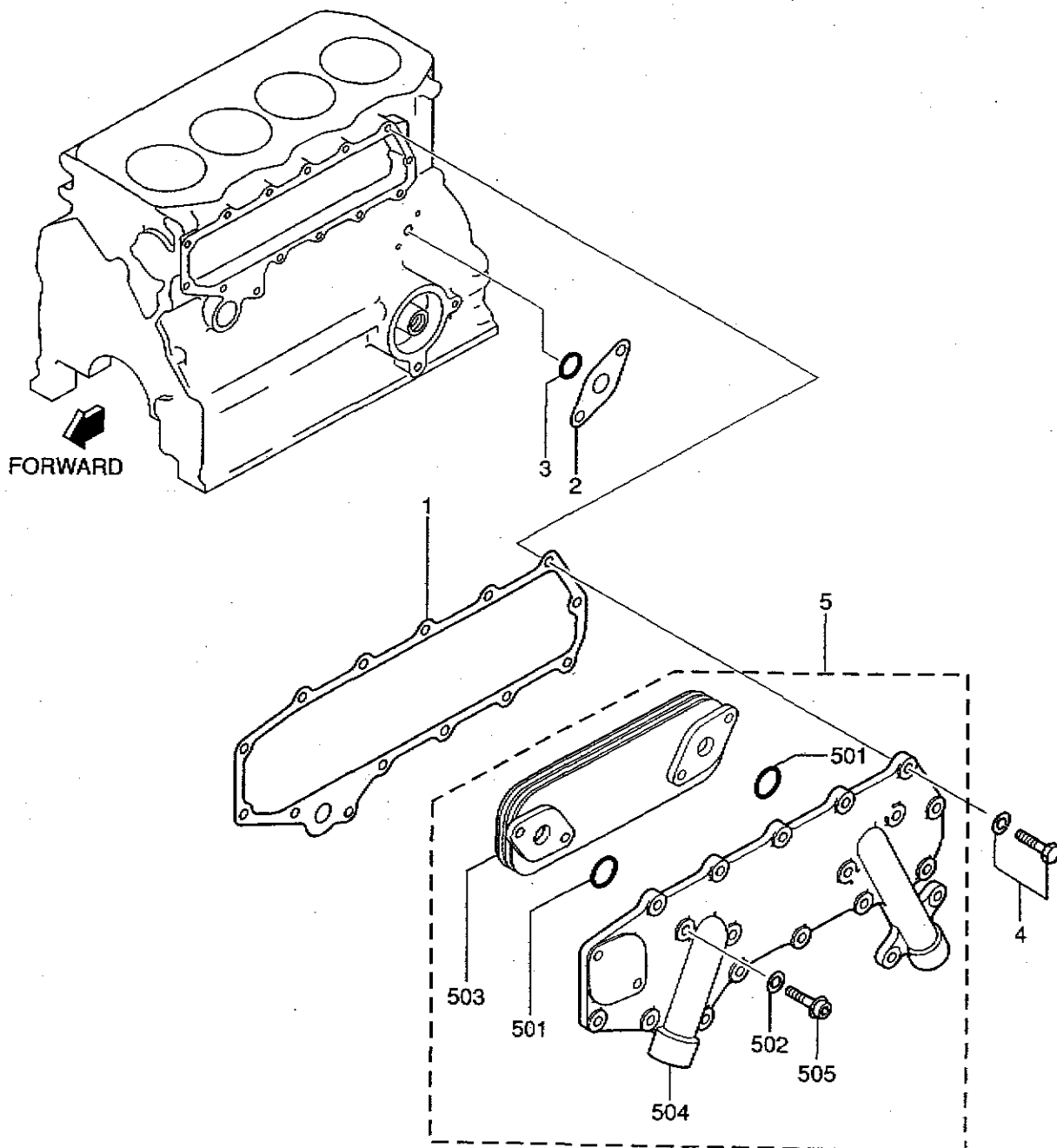
SIDE COVER
(FOR 1, 2)

- 53-

[illegible]

39-02

OIL COOLER
(FOR 3)

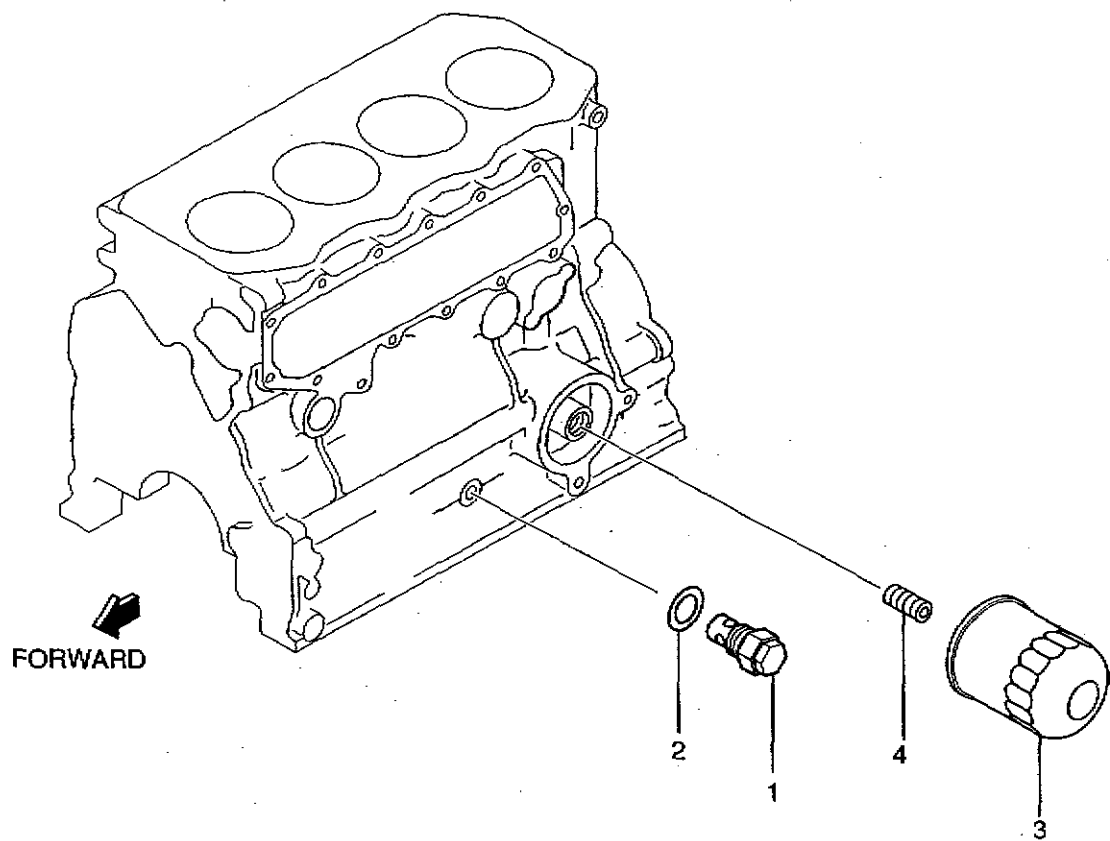


OIL COOLER
(FOR 3)

- 55 -

[illegible]

- 56-

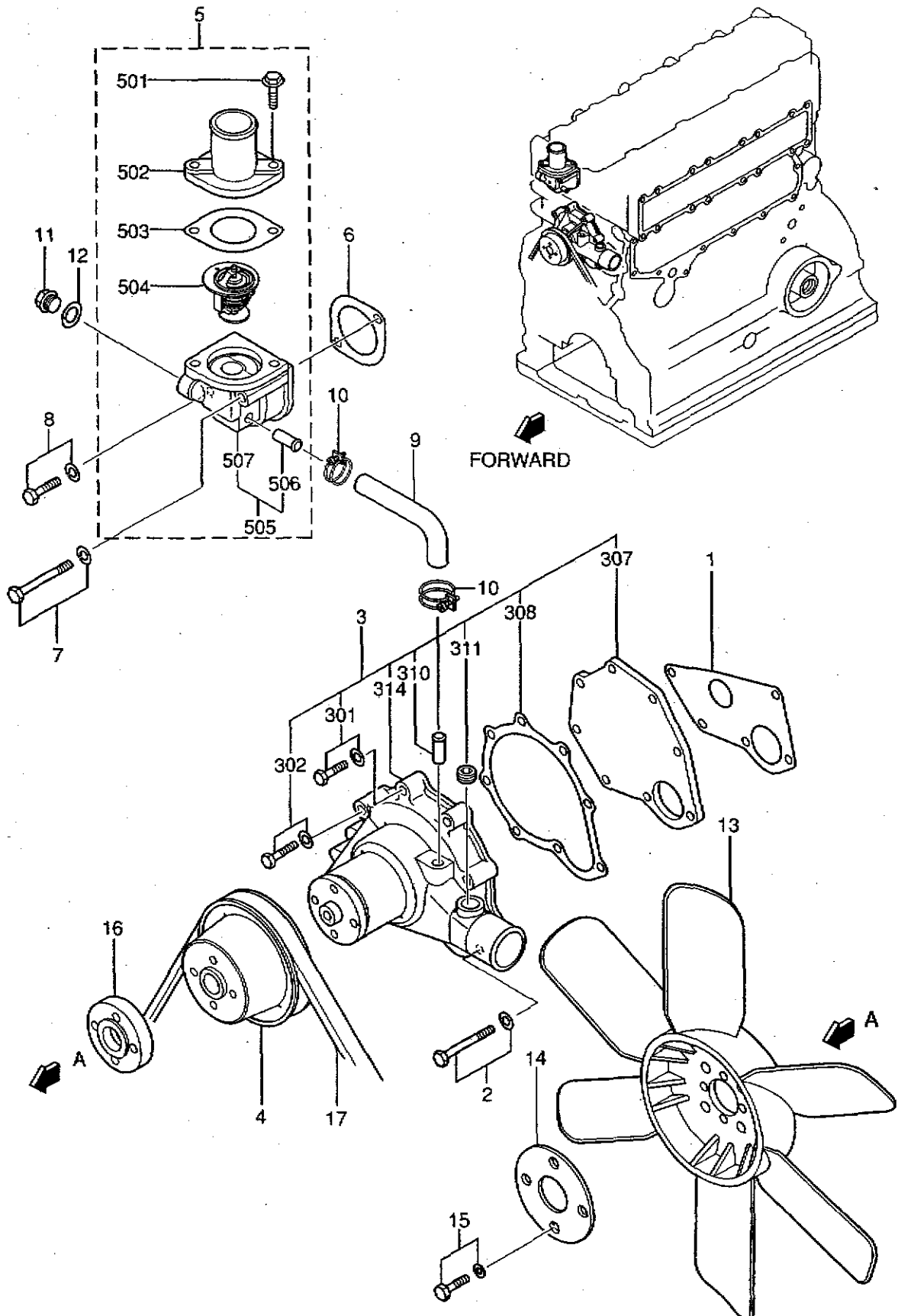


[illegible]

46-01

COOLING SYSTEM (FOR 1, 3)

- 58 -



- 1.S4S-Y165DG
- 2.S4S-Y165DP
- 3.S4S-Y1DT65DG

46-01 COOLING SYSTEM
(FOR 1, 3)

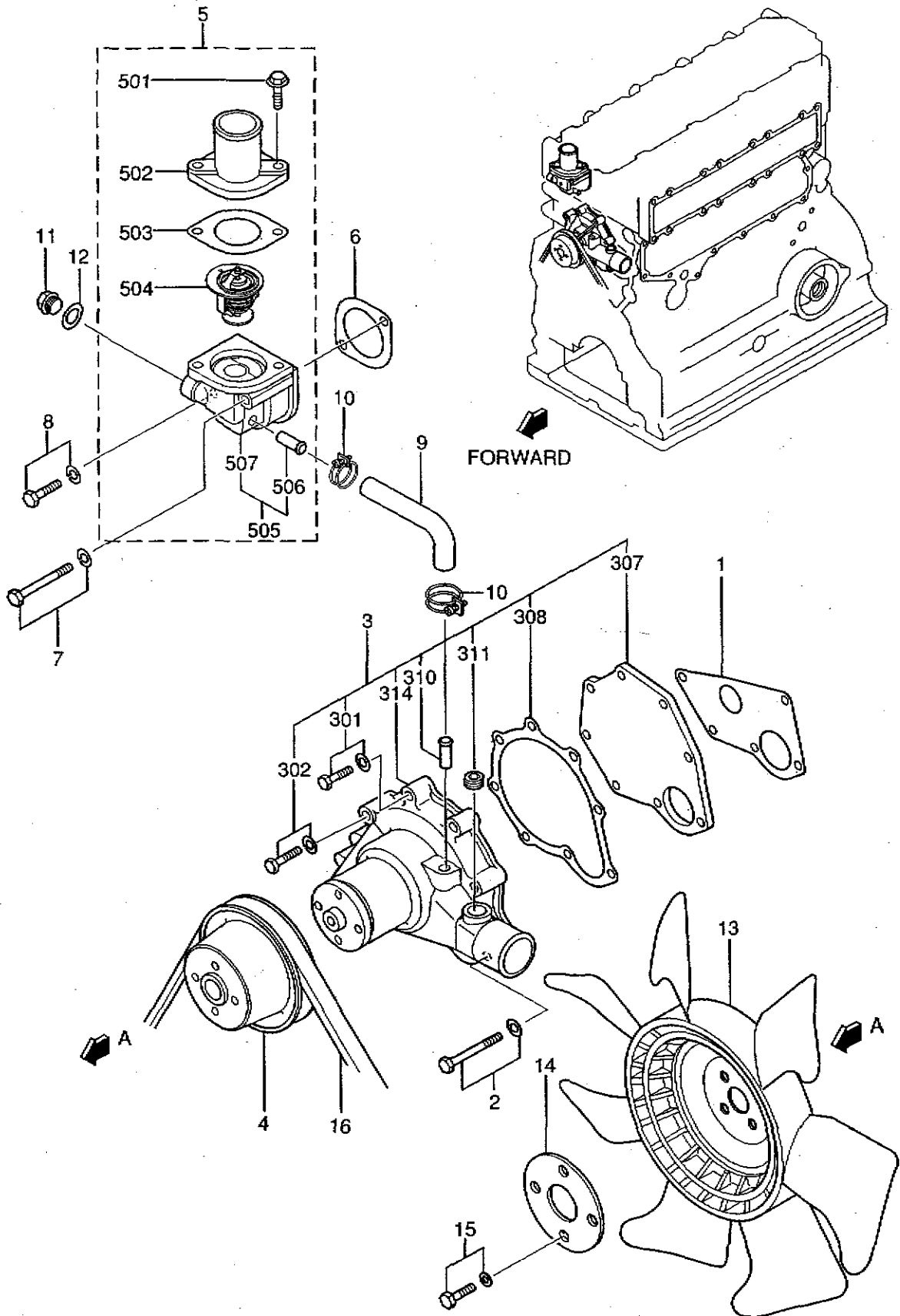
- 59-

REF. NO.	PART NO.	PART NAME & DESCRIPTION	MODEL & QTY			APPLICABLE SERIAL NO.		MATERIAL
			1	2	3	FROM	TO	
1	32A45-00500	GASKET, WATER PUMP	1	.	1			
2	F1805-08045	BOLT, W/WASHER B/W	5	.	5			
3	32B45-10031	PUMP ASSY, WATER	1	.	1			
301	F1805-08025	BOLT, W/WASHER B/W	2	.	2			
302	F1805-08035	BOLT, W/WASHER B/W	1	.	1			
307	32A45-00300	COVER, WATER PUMP	1	.	1			
308	32A45-00400	GASKET, PUMP COVER	1	.	1			
310	*	PIPE, WATER PUMP	1	.	1			
311	F5005-17001	PLUG, TAPER	1	.	1			
314	*	CASE, WATER PUMP	1	.	1			
4	32B45-02101	PULLEY, WATER PUMP	1	.	1			
5	32A46-20040	THERMOSTAT ASSY	1	.	1			
501	MF140227	BOLT, FLANGE	2	.	2			
502	32A46-01101	COVER, THERMOSTAT	1	.	1			
503	32A46-01400	GASKET, THERMOSTAT	1	.	1			
504	32A46-02100	THERMOSTAT	1	.	1			
505	32A46-10030	CASE ASSY, THERMOSTAT	1	.	1			
506	*	PIPE, THERMOSTAT	1	.	1			
507	*	CASE, THERMOSTAT	1	.	1			
6	34446-05300	GASKET	1	.	1			
7	F1805-08075	BOLT, W/WASHER B/W	1	.	1			
8	F1805-08045	BOLT, W/WASHER B/W	1	.	1			
9	32A46-00900	HOSE, BY-PASS	1	.	1			
10	32A46-03100	CLAMP, HOSE	2	.	2			
11	MM316248	PLUG, DRAIN	2	.	2			
12	30636-25901	GASKET	2	.	2			
13	34448-44200	FAN	1	.	1			
14	31345-12100	PLATE, FAN	1	.	1			
15	F1805-08045	BOLT, W/WASHER B/W	4	.	4			
16	32A48-01101	SPACER, FAN	1	.	1			
17	05910-20045	BELT, RAW EDGE	1	.	1			

46-02

COOLING SYSTEM (FOR 2)

- 60-



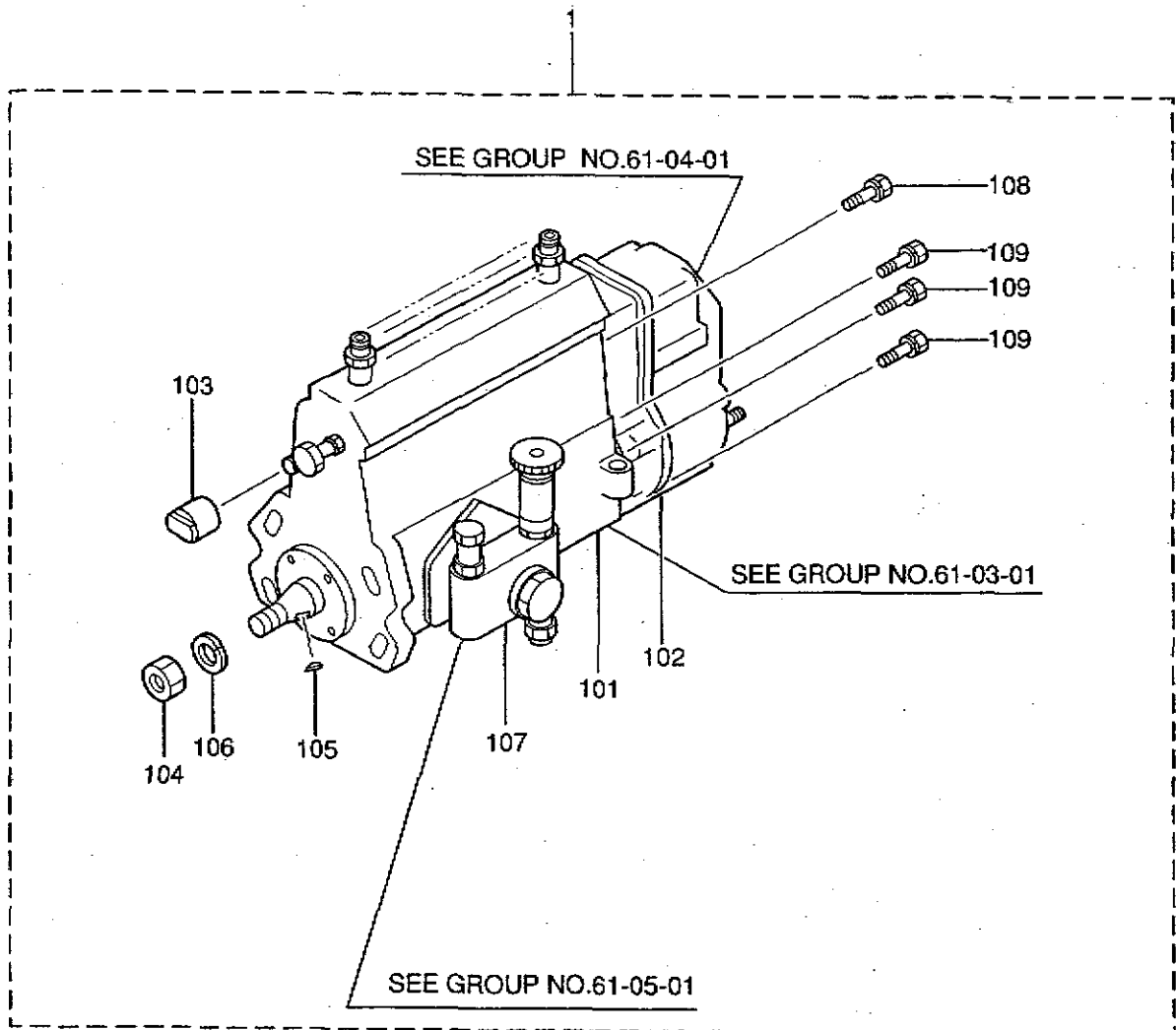
COOLING SYSTEM
(FOR 2)

- 61 -

REF. NO.	PART NO.	PSC EN P Q	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		MV R RD
				1	2	3	FROM@-	-@UPTO	
1	32A45-00500		GASKET, WATER PUMP	.	1	.			
2	F1805-08045		BOLT, W/WASHER B/W	.	5	.			A
3	32B45-10031		PUMP ASSY, WATER	.	1	.			
301	F1805-08025		BOLT, W/WASHER B/W	.	2	.			A
302	F1805-08035		BOLT, W/WASHER B/W	.	1	.			A
307	32A45-00300		COVER, WATER PUMP	.	1	.			
308	32A45-00400		GASKET, PUMP COVER	.	1	.			
310	*		PIPE, WATER PUMP	.	1	.			
311	F5005-17001		PLUG, TAPER	.	1	.			A
314	*		CASE, WATER PUMP	.	1	.			
4	32B45-02101		PULLEY, WATER PUMP	.	1	.			
5	32A46-20040		THERMOSTAT ASSY	.	1	.			
501	MF140227		BOLT, FLANGE	.	2	.			
502	32A46-01101		COVER, THERMOSTAT	.	1	.			
503	32A46-01400		GASKET, THERMOSTAT	.	1	.			
504	32A46-02100		THERMOSTAT	.	1	.			
505	32A46-10030		CASE ASSY, THERMOSTAT	.	1	.			
506	*		PIPE, THERMOSTAT	.	1	.			
507	*		CASE, THERMOSTAT	.	1	.			
6	34446-05300		GASKET	.	1	.			A
7	F1805-08075		BOLT, W/WASHER B/W	.	1	.			A
8	F1805-08045		BOLT, W/WASHER B/W	.	1	.			A
9	32A46-00900		HOSE, BY-PASS	.	1	.			
10	32A46-03100		CLAMP, HOSE	.	2	.			
11	MM316248		PLUG, DRAIN	.	2	.			A
12	30636-25901		GASKET	.	2	.			A
13	ME015735		FAN, COOLING	.	1	.			
14	31345-12100		PLATE, FAN	.	1	.			
15	F1805-08025		BOLT, W/WASHER B/W	.	4	.			A
16	05910-20045		BELT, RAW EDGE	.	1	.			

61-01-01 FUEL INJECTION PUMP GENERAL
(FOR 1)

- 62-



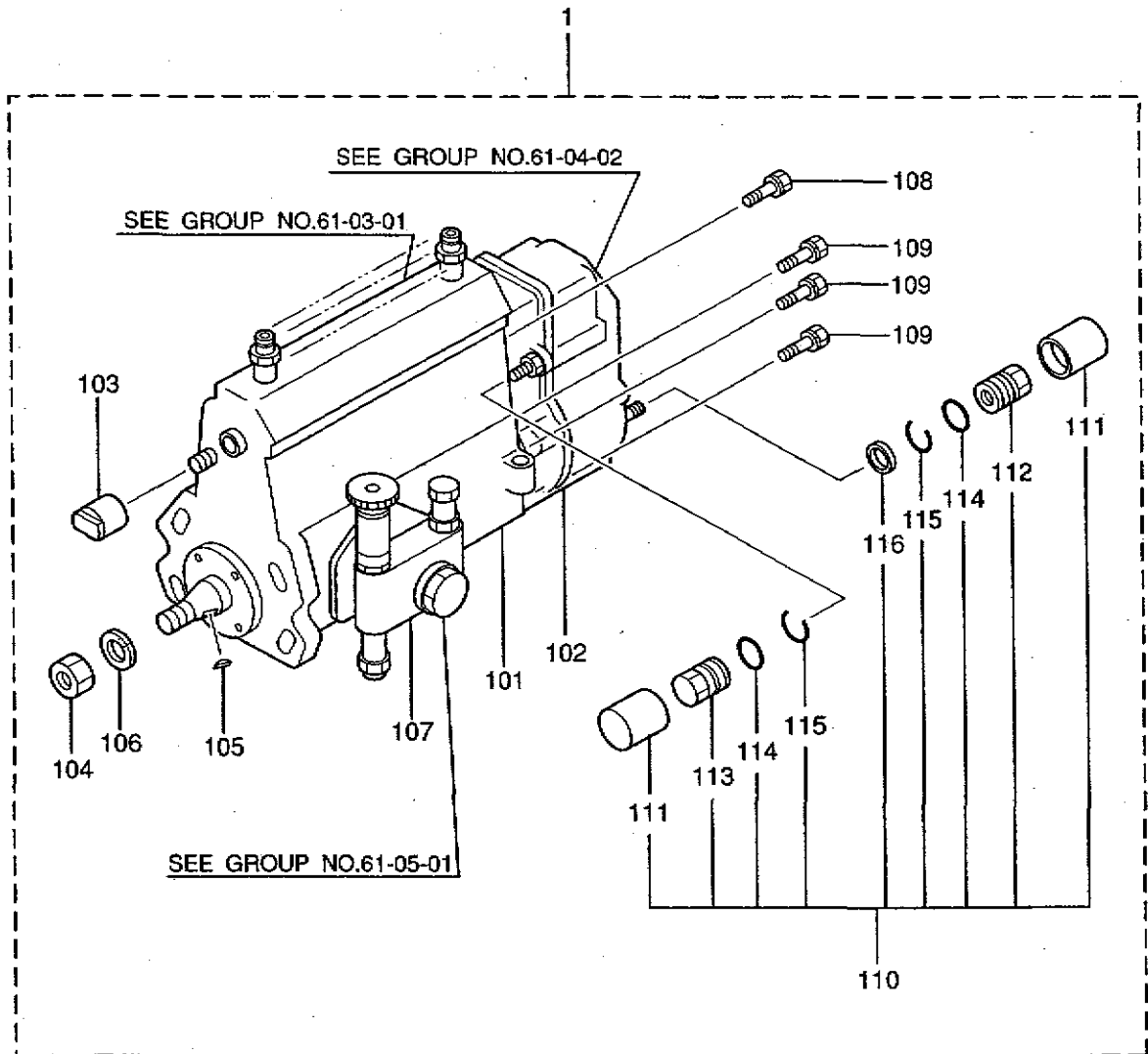
61-01-01 FUEL INJECTION PUMP GENERAL
(FOR 1)

- 63 -

[illegible]

61-01-02 FUEL INJECTION PUMP GENERAL
(FOR 2)

- 64-

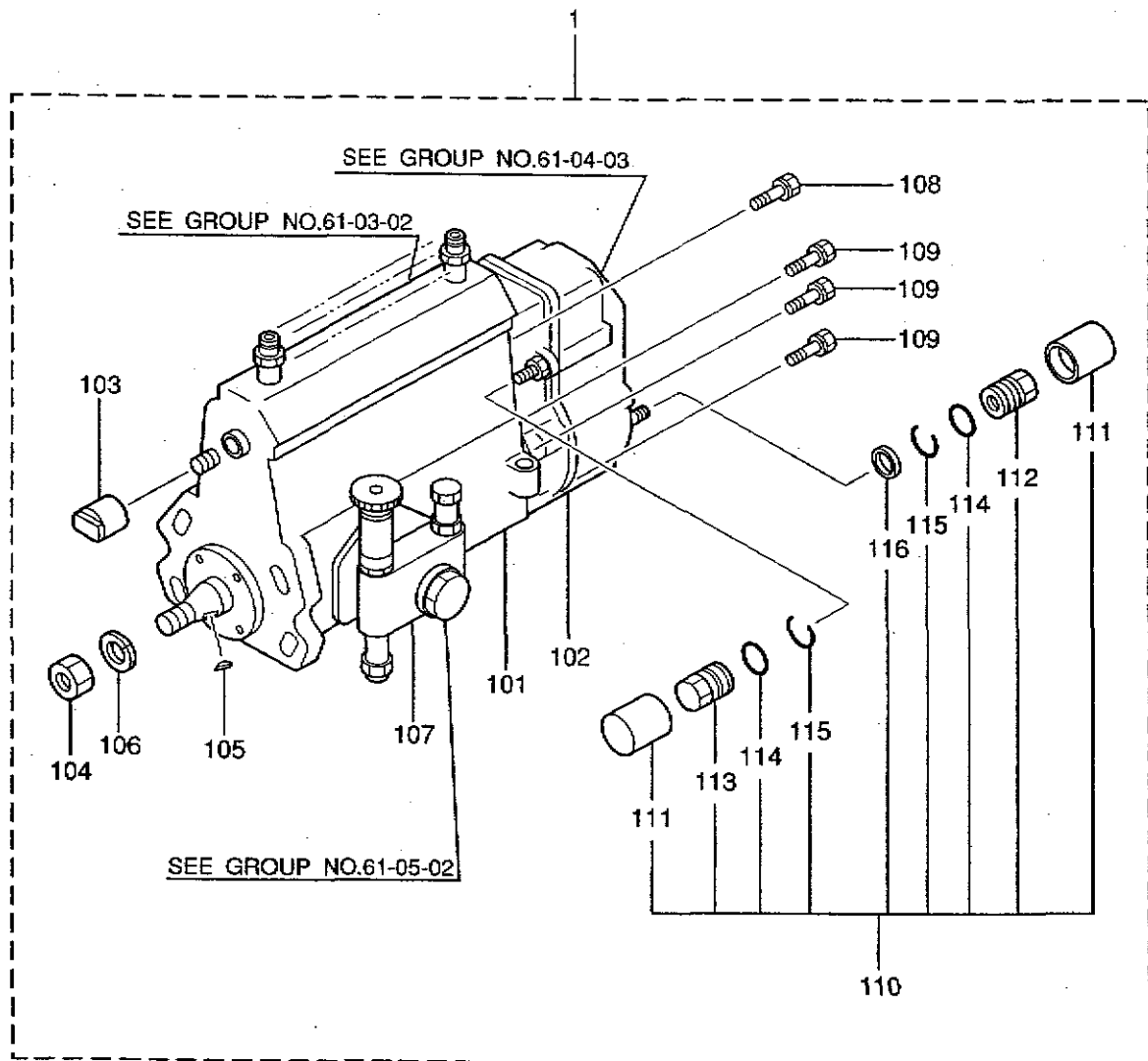


61-01-02 FUEL INJECTION PUMP GENERAL
(FOR 2)

REF. NO.	PART NO.	R P	SSC ENG G	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		MY RD
					1	2	3	FROM@-	-@UPTO	
101	32A65-01620			PUMP ASSY, INJECTION	092000-4530 DEN	.	1	.		
102	*			BODY ASSY, INJECTION	190100-0750 DEN	.	1	.		
103	*			GOVERNOR ASSY	190800-6690 DEN	.	1	.		
104	09001-80241			COVER, CONTROL RACK		.	1	.		
105	94905-02450			NUT, HEXAGON		.	1	.		
106	94913-00190			KEY, WOODRUFF		.	1	.		
107	94901-50500			WASHER, SPRING		.	1	.		
108	34461-09050			PUMP ASSY, FEED	092100-1551 DEN	.	1	.		A
109	91518-08221			BOLT, W/WASHER	B/W	.	1	.		A
110	91418-06161			BOLT, W/WASHER	B/W	.	6	.		A
111	32B65-09510			OVER-HAUL KIT, GOV	190890-1090 DEN	.	1	.		
112	09103-10260			NUT, CUP		.	2	.		
113	09103-10270			NUT, CAP		.	1	.		
114	09103-10280			NUT, CUP		.	1	.		
115	94914-02141			O-RING		.	2	.		A
116	94907-21500			RING, SNAP		.	2	.		A
117	94901-81020			WASHER, COPPER PLATE		.	1	.		

61-01-03 FUEL INJECTION PUMP GENERAL
(FOR 3)

- 66-

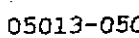


- 1.S4S-Y165DG
- 2.S4S-Y165DP
- 3.S4S-Y1DT65DG

61-01-03 FUEL INJECTION PUMP GENERAL
(FOR 3)

- 67-

[illegible]

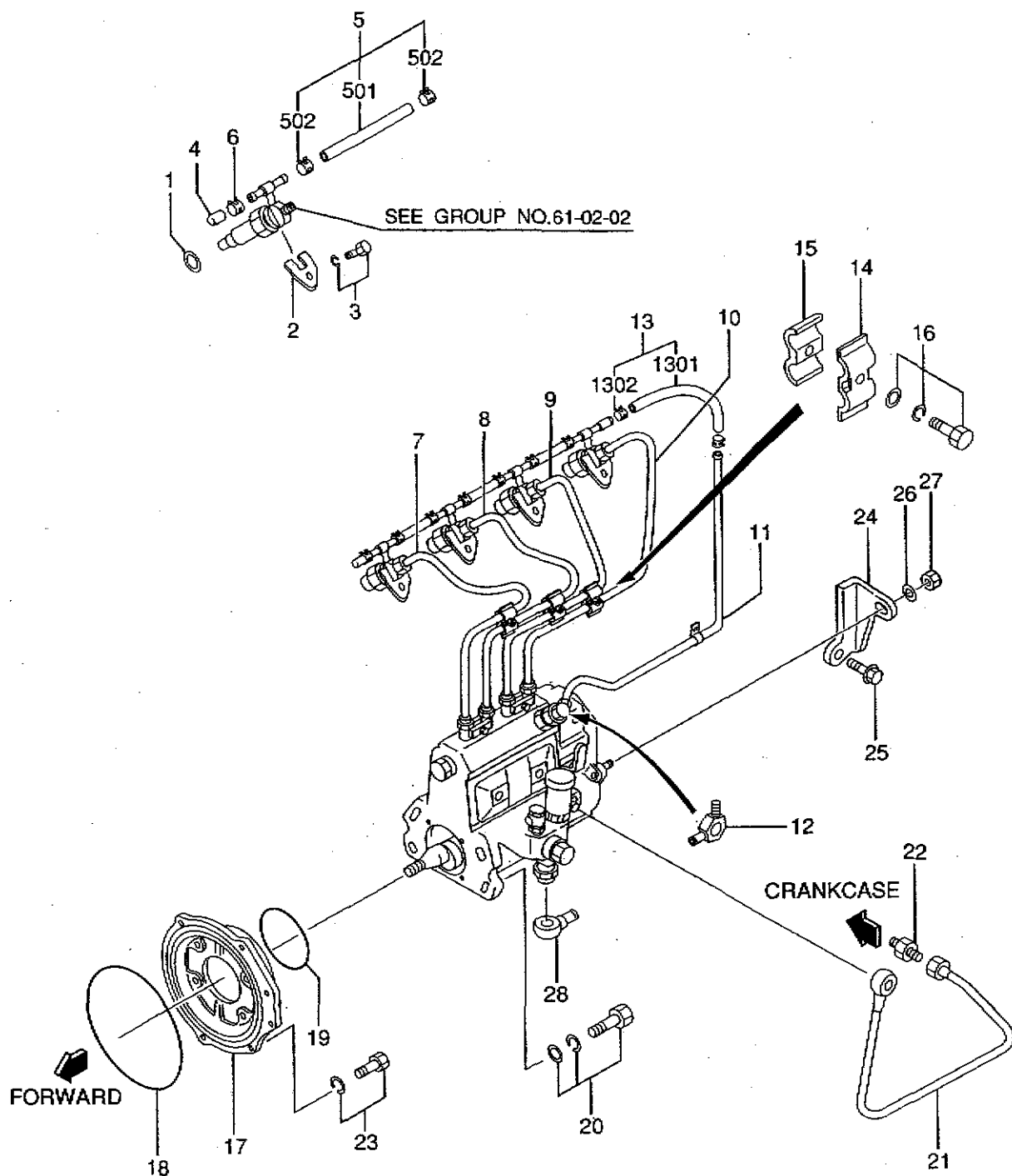


61-01-04 FUEL SYSTEM
(FOR 1, 2)

[illegible]

61-01-05 FUEL SYSTEM
(FOR 3)

- 70-

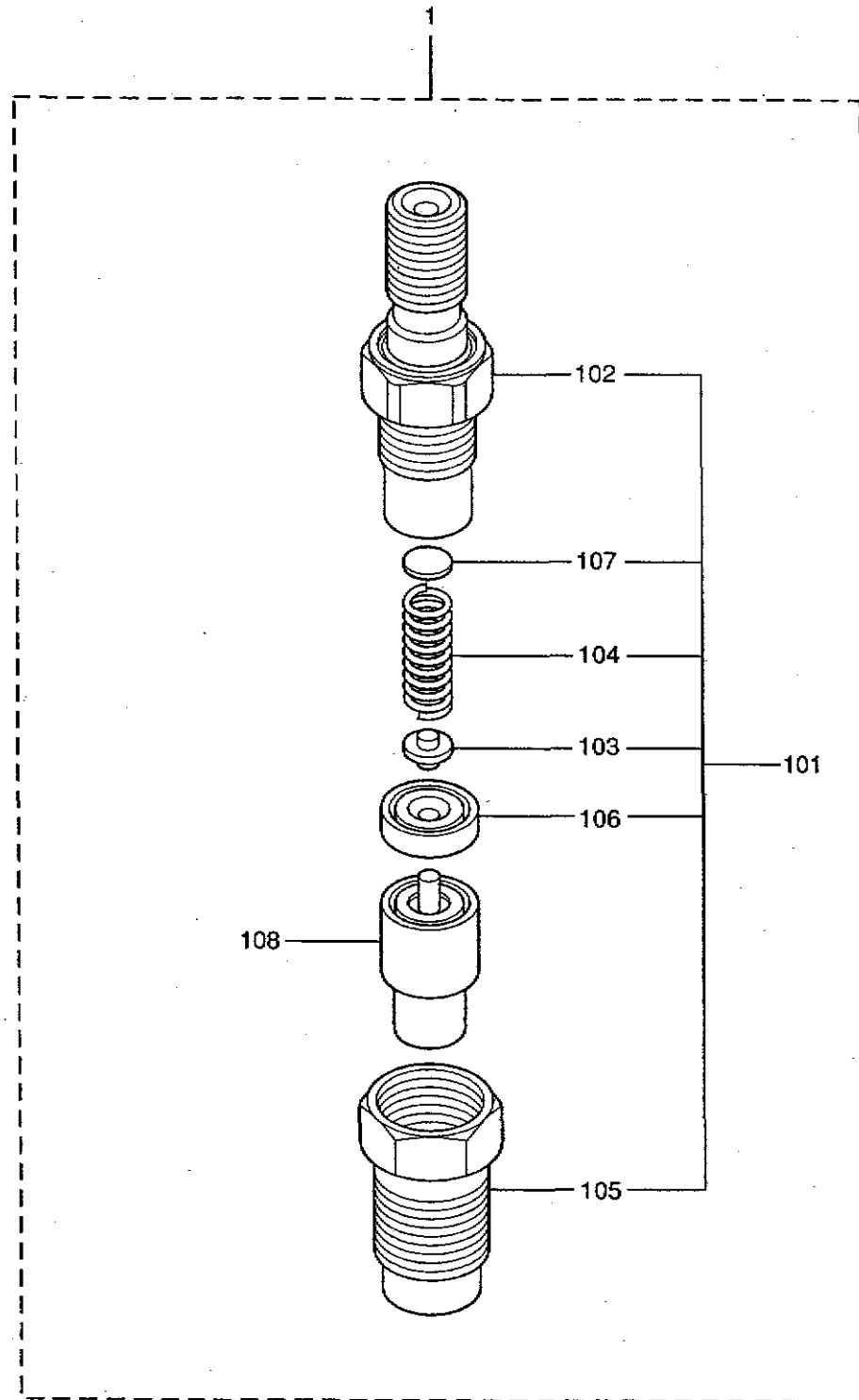


61-01-05 FUEL SYSTEM
(FOR 3)

REF. NO.	PART NO.	PART NAME & DESCRIPTION	MODEL & QTY			APPLICABLE SERIAL NO.		MV / R RD
			1	2	3	FROM	TO	
1	MM432045	GASKET, NOZZLE HOLDER	.	.	4			
2	MM437-13701	SUPPORT, NOZZLE	.	.	4			
3	F1805-08030	BOLT, W/WASHER B/W	.	.	4			
4	ME016571	CAP	.	.	1			
5	MM436810	HOSE ASSY, FUEL	.	.	3			
501	MS602011	HOSE, FUEL	.	.	3			
502	MS660163	CLIP, HOSE	.	.	6			
6	MS660163	CLIP, HOSE	.	.	1			
7	32A61-05102	PIPE, INJECTION NO.1	.	.	1			
8	32A61-05200	PIPE, INJECTION NO.2	.	.	1			
9	32A61-05300	PIPE, INJECTION NO.3	.	.	1			
10	32A61-05400	PIPE, INJECTION NO.4	.	.	1			
11	32A61-05600	PIPE, FUEL RETURN	.	.	1			
12	36761-01100	JOINT, EYE	.	.	1			
13	MM402901	HOSE ASSY, FUEL	.	.	1			
1301	MS602023	HOSE, FUEL	.	.	1			
1302	MS660163	CLIP, HOSE	.	.	2			
14	MM430703	CLAMP (A)	.	.	3			
15	MM430614	CLAMP (B)	.	.	3			
16	F1825-06025	BOLT, W/WASHER B/W	.	.	3			
17	32A61-01301	FLANGE, INJ PUMP	.	.	1			
18	06016-13140	O-RING	.	.	1			
19	06016-13075	O-RING	.	.	1			
20	F2015-10035	BOLT, W/WASHER B/W	.	.	4			
21	32A36-30100	PIPE, OIL	.	.	1			
22	F4440-06300	CONNECTOR	.	.	1			
23	F1805-08020	BOLT, W/WASHER B/W	.	.	1			
24	32A61-00900	BRACKET, INJ PUMP	.	.	1			
25	32A13-02700	BOLT, FLANGE	.	.	1			
26	F2515-08000	WASHER, SPRING	.	.	1			
27	F2300-08000	NUT, LOCK	.	.	1			
28	32A61-02900	NIPPLE, SWIVELING	.	.	1			

61-02-01 NOZZLE
(FOR 1, 2)

- 72-



1.S4S-Y165DG
2.S4S-Y165DP
3.S4S-Y1DT65DG

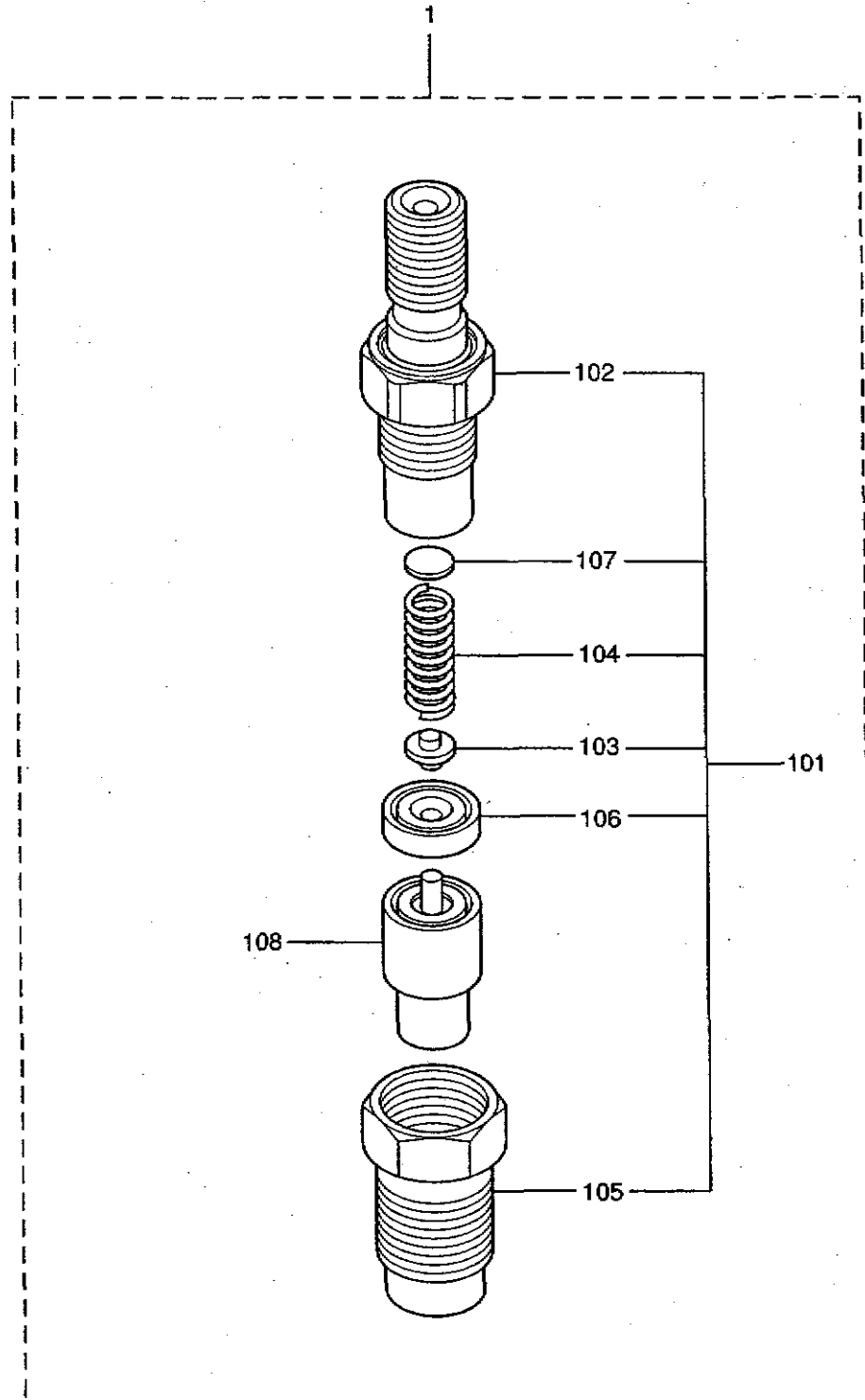
61-02-01 NOZZLE
(FOR 1, 2)

- 73 -

REF. -NO.	PART NO.	RSC /P /PC	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		M/R /RD
				1	2	3	FROM@-	-@UPTO	
1	32C61-06000		NOZZLE ASSY	093500-5480 DEN	4	4	.		
101	32C61-06010		HOLDER ASSY, NOZZLE	093100-5480 DEN	4	4	.		
102	09311-05480		BODY SUB ASSY		4	4	.		
103	09312-10380		FIN, PRESSURE		4	4	.		
104	09312-70360		SPRING, PRESSURE		4	4	.		
105	09316-41351		NUT, NOZZLE RETAINING		4	4	.		
106	09317-40070		PIECE, DISTANCE		4	4	.		
107	09317-51670		WASHER T=0.900	AR	AR	.			
	09317-51680		WASHER T=0.925	AR	AR	.			
	09317-51690		WASHER T=0.950	AR	AR	.			
	09317-51700		WASHER T=0.975	AR	AR	.			
	09317-51710		WASHER T=1.000	AR	AR	.			
	09317-51720		WASHER T=1.025	AR	AR	.			
	09317-51730		WASHER T=1.050	AR	AR	.			
	09317-51740		WASHER T=1.075	AR	AR	.			
	09317-51750		WASHER T=1.100	AR	AR	.			
	09317-51760		WASHER T=1.125	AR	AR	.			
	09317-51770		WASHER T=1.150	AR	AR	.			
	09317-51780		WASHER T=1.175	AR	AR	.			
	09317-51790		WASHER T=1.200	AR	AR	.			
	09317-51800		WASHER T=1.225	AR	AR	.			
	09317-51810		WASHER T=1.250	AR	AR	.			
	09317-51820		WASHER T=1.275	AR	AR	.			
	09317-51830		WASHER T=1.300	AR	AR	.			
	09317-51840		WASHER T=1.325	AR	AR	.			
	09317-51850		WASHER T=1.350	AR	AR	.			
	09317-51860		WASHER T=1.375	AR	AR	.			
	09317-51870		WASHER T=1.400	AR	AR	.			
	09317-51880		WASHER T=1.425	AR	AR	.			
	09317-51890		WASHER T=1.450	AR	AR	.			
	09317-51900		WASHER T=1.475	AR	AR	.			
	09317-51910		WASHER T=1.500	AR	AR	.			
	09317-51920		WASHER T=1.525	AR	AR	.			
	09317-51930		WASHER T=1.550	AR	AR	.			
	09317-51940		WASHER T=1.575	AR	AR	.			
	09317-51950		WASHER T=1.600	AR	AR	.			
	09317-51960		WASHER T=1.625	AR	AR	.			
	09317-51970		WASHER T=1.650	AR	AR	.			
	09317-51980		WASHER T=1.675	AR	AR	.			
	09317-51990		WASHER T=1.700	AR	AR	.			
	09317-52000		WASHER T=1.725	AR	AR	.			
	09317-52010		WASHER T=1.750	AR	AR	.			
	09317-52020		WASHER T=1.775	AR	AR	.			
	09317-52030		WASHER T=1.800	AR	AR	.			
	09317-52040		WASHER T=1.825	AR	AR	.			
	09317-52050		WASHER T=1.850	AR	AR	.			
	09317-52060		WASHER T=1.875	AR	AR	.			
	09317-52070		WASHER T=1.900	AR	AR	.			
	09317-52080		WASHER T=1.925	AR	AR	.			
	09317-52090		WASHER T=1.950	AR	AR	.			

61-02-01 NOZZLE
(FOR 1, 2)

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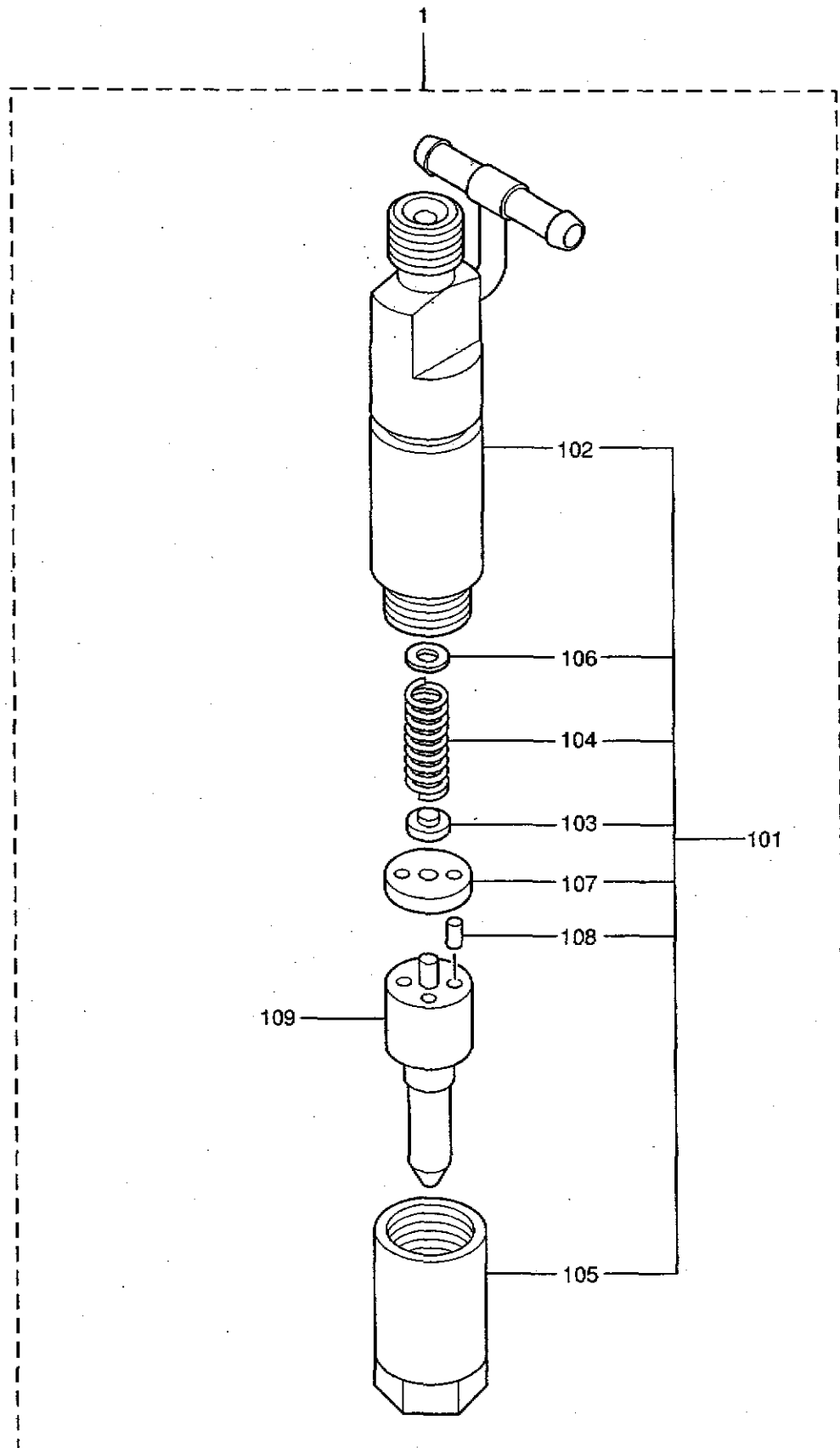


61-02-01 NOZZLE
(FOR 1, 2)

[illegible]

61-02-02 NOZZLE
(FOR 3)

-- 76--



615A02-00

05020-00

1.S4S-Y165DG
2.S4S-Y165DP
3.S4S-Y1DT65DG

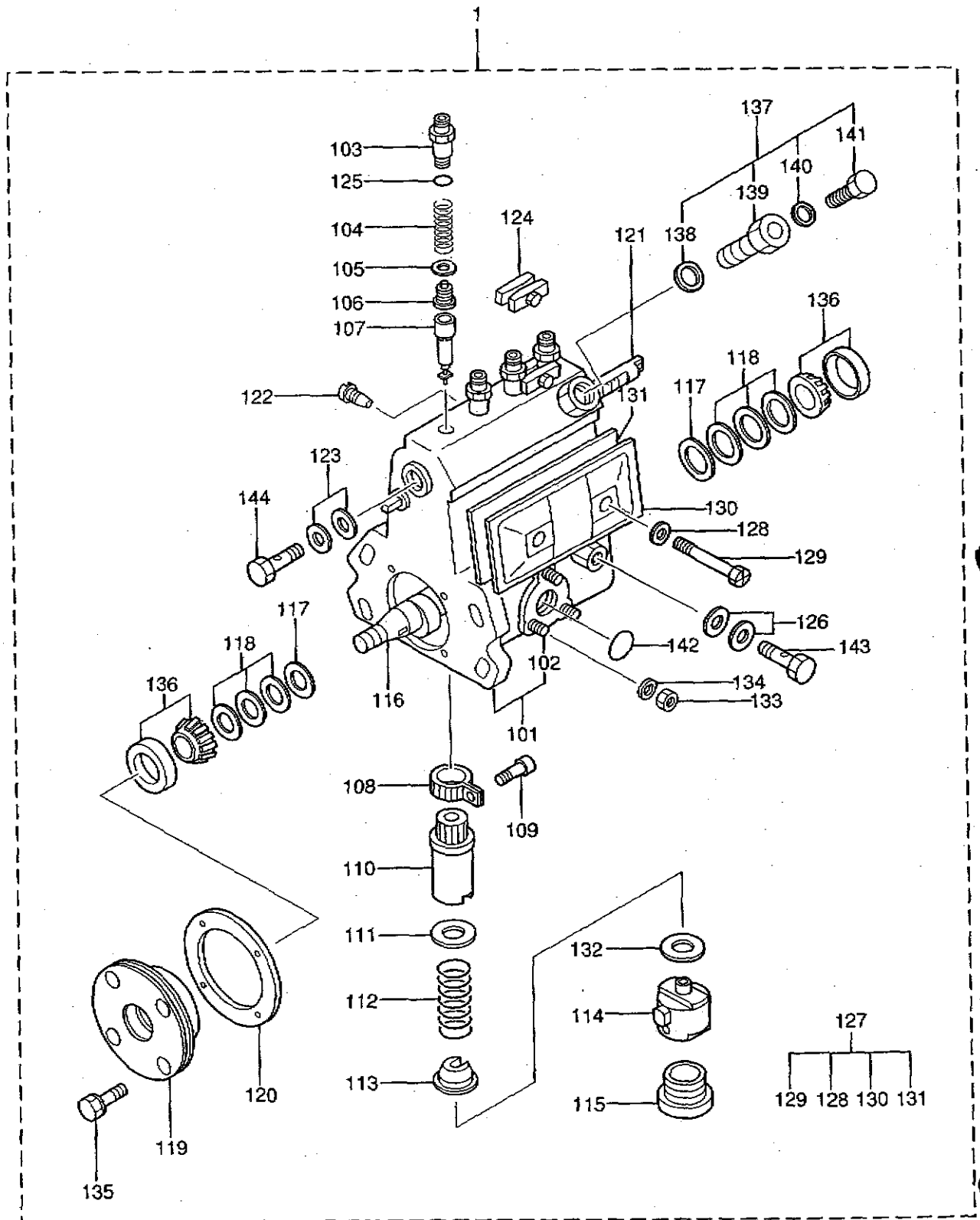
61-02-02 NOZZLE
(FOR 3)

- 77-

REF. -NO.	PART NO.	RSC /EN /PQ	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		MV /R RD
				1	2	3	FROM@-	-@UPTO	
1	32A61-07040		NOZZLE ASSY	093500-6310 DEN	.	.	4		A
101	32A61-07400		HOLDER ASSY	093100-6310 DEN	.	.	4		A
102	09311-06310		BODY ASSY		.	.	4		A
103	09312-10480		PIN,PRESSURE		.	.	4		A
104	09312-70410		SPRING,PRESSURE		.	.	4		A
105	09316-41020		NUT,NOZZLE RETAINING		.	.	4		A
106	09317-52180		WASHER	T=1.000	.	.	AR		A
	09317-52190		WASHER	T=1.050	.	.	AR		A
	09317-52200		WASHER	T=1.100	.	.	AR		A
	09317-52210		WASHER	T=1.150	.	.	AR		A
	09317-52220		WASHER	T=1.200	.	.	AR		A
	09317-52230		WASHER	T=1.250	.	.	AR		A
	09317-52240		WASHER	T=1.300	.	.	AR		A
	09317-52250		WASHER	T=1.350	.	.	AR		A
	09317-52260		WASHER	T=1.400	.	.	AR		A
	09317-52270		WASHER	T=1.450	.	.	AR		A
	09317-52280		WASHER	T=1.500	.	.	AR		A
	09317-52290		WASHER	T=1.550	.	.	AR		A
	09317-52300		WASHER	T=1.600	.	.	AR		A
	09317-52310		WASHER	T=1.650	.	.	AR		A
	09317-52320		WASHER	T=1.700	.	.	AR		A
	09317-52330		WASHER	T=1.750	.	.	AR		A
	09317-52340		WASHER	T=1.800	.	.	AR		A
	09317-52420		WASHER	T=1.275	.	.	AR		A
	09317-52430		WASHER	T=1.325	.	.	AR		A
	09317-52440		WASHER	T=1.375	.	.	AR		A
	09317-52450		WASHER	T=1.425	.	.	AR		A
	09317-52460		WASHER	T=1.475	.	.	AR		A
	09317-52530		WASHER	T=0.950	.	.	AR		A
	09317-52560		WASHER	T=0.700	.	.	AR		A
	09317-52570		WASHER	T=0.750	.	.	AR		A
	09317-52580		WASHER	T=0.800	.	.	AR		A
	09317-52590		WASHER	T=0.850	.	.	AR		A
	09317-52600		WASHER	T=0.900	.	.	AR		A
	09317-52610		WASHER	T=0.975	.	.	AR		A
	09317-52620		WASHER	T=1.025	.	.	AR		A
	09317-52630		WASHER	T=1.075	.	.	AR		A
	09317-52640		WASHER	T=1.125	.	.	AR		A
	09317-52650		WASHER	T=1.175	.	.	AR		A
	09317-52660		WASHER	T=1.225	.	.	AR		A
107	09322-10150		PACKING,TIP		.	.	4		A
108	94908-23160		PIN,STRAIGHT		.	.	8		A
109	32A61-07900		TIP ASSY,NOZZLE	093400-6380 DEN	.	.	4		A

61-03-01 INJECTION PUMP
(FOR 1, 2)

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1.S4S-Y165DG
2.S4S-Y165DP
3.S4S-Y1DT65DG

61-03-01 INJECTION PUMP
(FOR 1, 2)

- 79 -

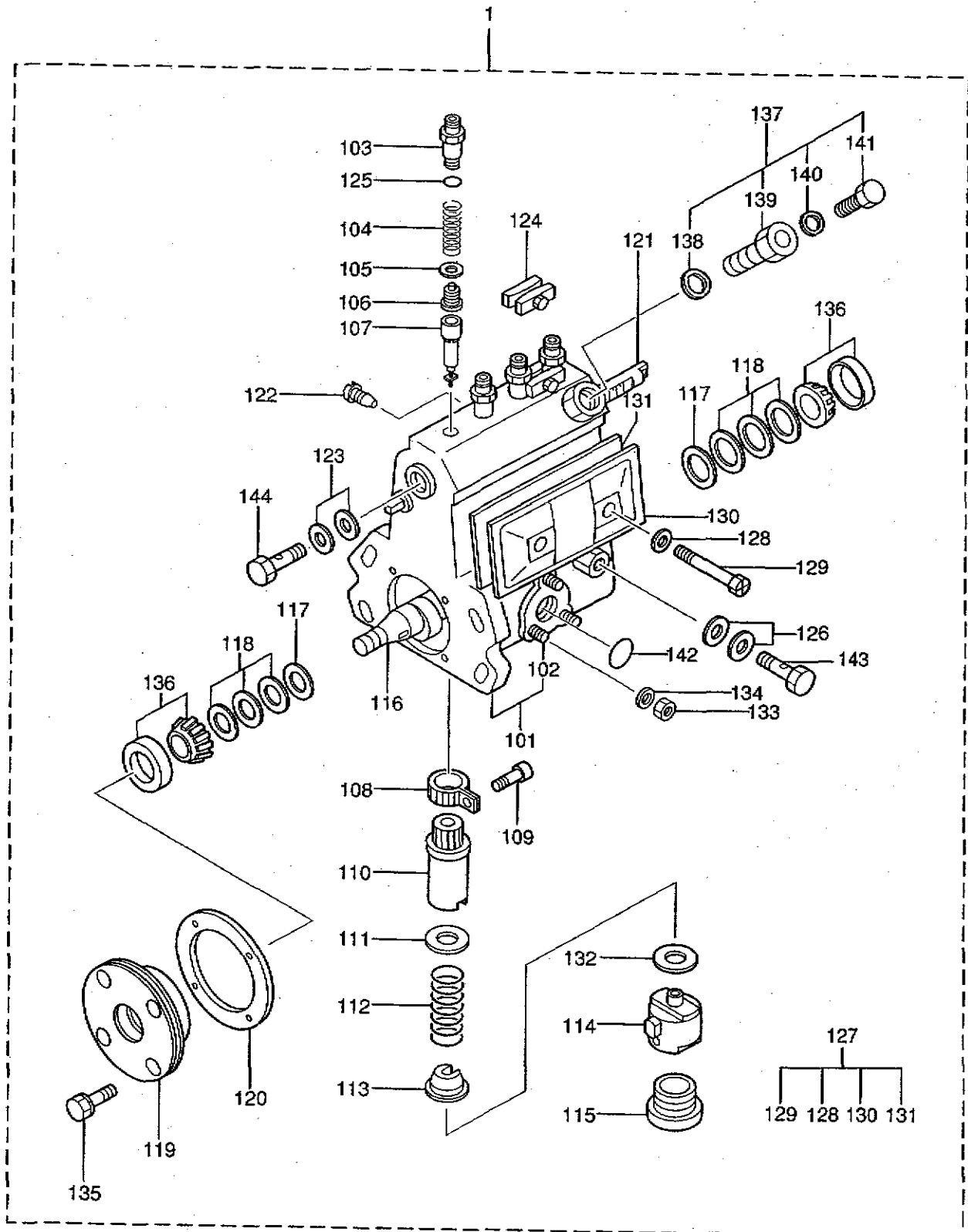
REF. -NO.	PART NO.	RSC /EN PQ	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		MV /R RD
				1	2	3	FROM@-	-@UPTO	
1	*		BODY ASSY,INJECTION 190100-0750 DEN	1	1	.			
101	19011-05060		HOUSING KIT,INJ PUMP	1	1	.			
102	94904-30010		BOLT,STUD	3	3	.			
103	09013-10330		HOLDER,DELIVERY	4	4	.			
104	09013-60020		SPRING,DELIVERY	4	4	.			A
105	09013-70100		GASKET,DELIVERY	4	4	.			
106	09014-00660		VALVE DELIVERY	4	4	.			
107	09015-03830		ELEMENT,PUMP	4	4	.			
108	09015-60010		PINION,CONTROL	4	4	.			
109	09015-70010		SCREW,PINION CLAMP	4	4	.			
110	09016-10330		SLEEVE,CONTROL	4	4	.			
111	09016-30191		SEAT,UPPER SPRING	4	4	.			
112	09016-40090		SPRING,PLUNGER	4	4	.			A
113	09016-50160		SEAT,LOWER SPRING	4	4	.			
114	09017-00070		TAPPET SUB ASSY	4	4	.			
115	09018-90090		PLUG,FELT PLATE	4	4	.			
116	09019-10082		CAMSHAFT	1	1	.			
117	09019-30020		RING,CAMSHAFT ADJUST	2	2	.			
118	09019-40010		PLATE,CAMSHAFT SHIM T=0.10	AR	AR	.			A
	09019-40020		PLATE,CAMSHAFT SHIM T=0.12	AR	AR	.			A
	09019-40030		PLATE,CAMSHAFT SHIM T=0.14	AR	AR	.			A
	09019-40040		PLATE,CAMSHAFT SHIM T=0.16	AR	AR	.			A
	09019-40050		PLATE,CAMSHAFT SHIM T=0.18	AR	AR	.			A
	09019-40060		PLATE,CAMSHAFT SHIM T=0.50	AR	AR	.			A
	09019-40110		PLATE,CAMSHAFT SHIM T=0.30	AR	AR	.			A
	09019-40140		PLATE,CAMSHAFT SHIM T=1.00	AR	AR	.			A
	09019-40150		PLATE,CAMSHAFT SHIM T=1.50	AR	AR	.			A
	09019-40290		PLATE,CAMSHAFT SHIM T=2.00	AR	AR	.			A
	09019-40400		PLATE,CAMSHAFT SHIM T=0.03	AR	AR	.			A
119	09020-10300		COVER,BEARING	1	1	.			
120	09020-50160		GASKET,BEARING COVER	1	1	.			
121	09021-20020		RACK,CONTROL	1	1	.			
122	09021-50060		SCREW,RACK GUIDE	1	1	.			
123	09022-20070		WASHER,PIPE UNION	2	2	.			
124	09023-00050		PLATE SET,LOCK	2	2	.			
125	94914-02570		O-RING	4	4	.			A
126	09025-10010		WASHER,DRAIN UNION	2	2	.			A
127	09027-01460		COVER SUB ASSY,PUMP	1	1	.			
128	09024-30030		PACKING,AIR BLEEDER	2	2	.			A
129	09027-60030		SCREW,HEXAGON	2	2	.			
130	09027-50182		COVER,PLATE	1	1	.			
131	09027-20210		GASKET,COVER PLATE	1	1	.			
132	09031-10010		PLATE,TAPPET SHIM T=0.60	AR	AR	.			A
	09031-10020		PLATE,TAPPET SHIM T=0.70	AR	AR	.			A
	09031-10030		PLATE,TAPPET SHIM T=0.80	AR	AR	.			A
	09031-10040		PLATE,TAPPET SHIM T=0.90	AR	AR	.			A
	09031-10050		PLATE,TAPPET SHIM T=1.00	AR	AR	.			A
	09031-10060		PLATE,TAPPET SHIM T=1.10	AR	AR	.			A
	09031-10070		PLATE,TAPPET SHIM T=1.20	AR	AR	.			A
	09031-10080		PLATE,TAPPET SHIM T=1.30	AR	AR	.			A

02-06-11

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61-03-01 INJECTION PUMP
(FOR 1, 2)

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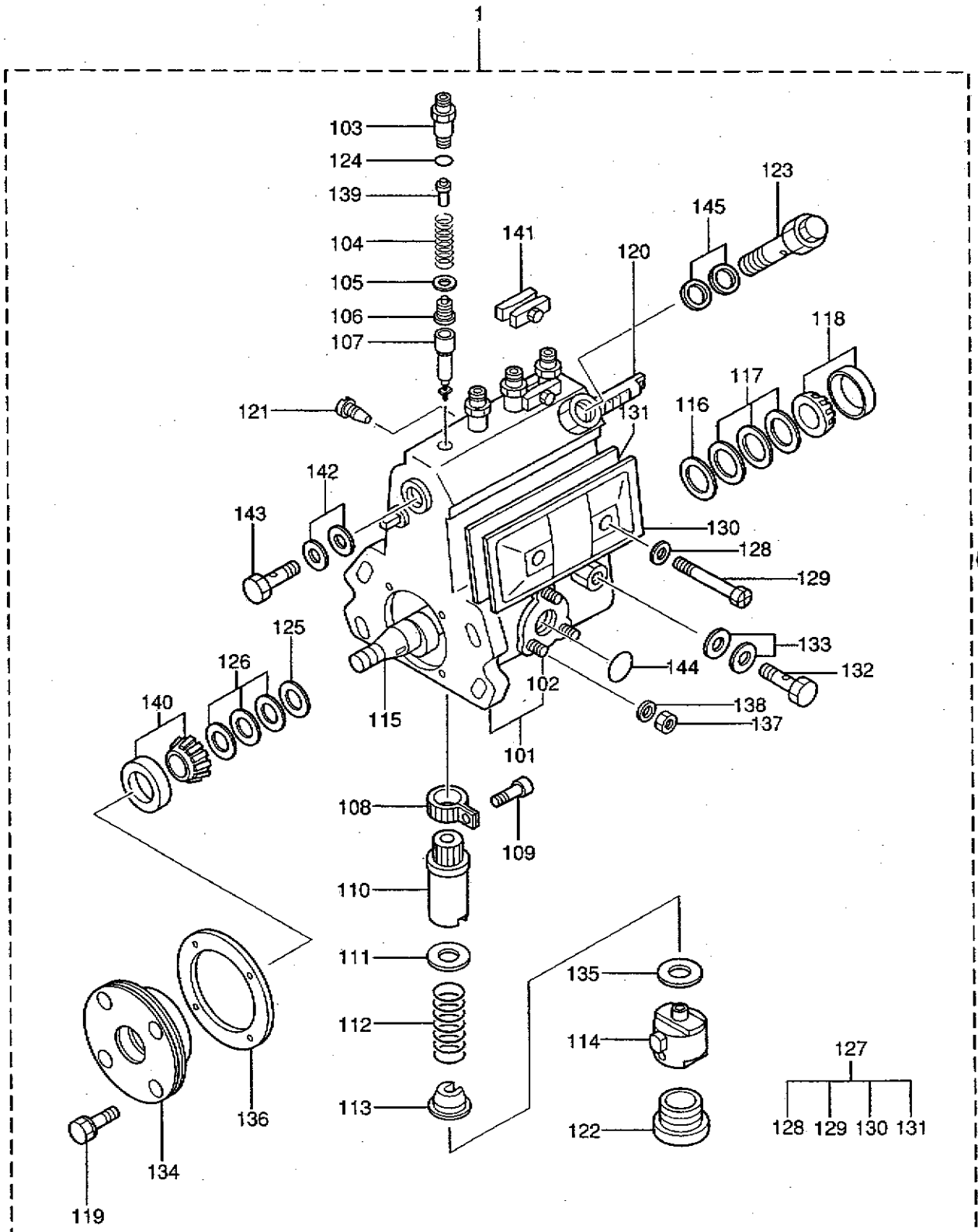


61-03-01 INJECTION PUMP
(FOR 1, 2)

[illegible]

61-03-02 INJECTION PUMP
(FOR 3)

- 82-



1.S4S-Y165DG
2.S4S-Y165DP
3.S4S-Y1DT65DG

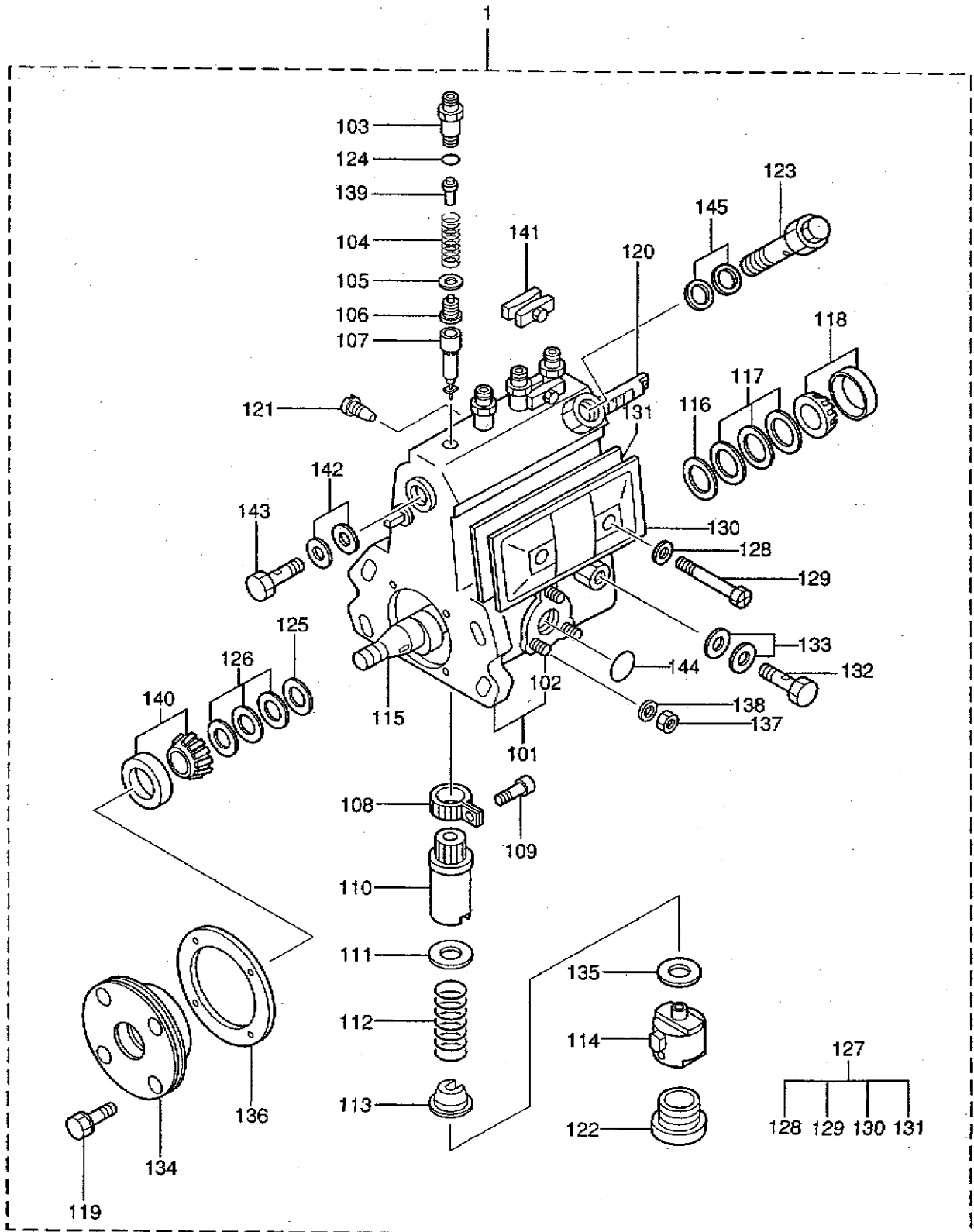
61-03-02 INJECTION PUMP
(FOR 3)

- 83-

REF. NO.	PART NO.	RSC /EN PQ	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		MV /R RD
				1	2	3	FROM@-	-@UPTO	
1	*		BODY ASSY,INJECTION 190100-0901 DEN	.	.	1			
101	19011-05180		HOUSING KIT,PUMP	.	.	1			
102	94904-30010		BOLT,STUD	.	.	3			
103	09013-10710		HOLDER,DELIVERY	.	.	4			
104	09013-61190		SPRING,DELIVERY	.	.	4			A
105	09013-70100		GASKET,DELIVERY	.	.	4			
106	09014-01890		VALVE SUB ASSY	.	.	4			
107	09015-05800		ELEMENT,PUMP	.	.	4			
108	09015-60010		PINION,CONTROL	.	.	4			
109	09015-70010		SCREW,PINION CLAMP	.	.	4			
110	09016-10330		SLEEVE,CONTROL	.	.	4			
111	09016-30191		SEAT,UPPER SPRING	.	.	4			
112	09016-40350		SPRING,PLUNGER	.	.	4			A
113	09016-50160		SEAT,LOWER SPRING	.	.	4			
114	09017-00070		TAPPET SUB ASSY	.	.	4			
115	09019-10860		CAMSHAFT,INJ PUMP	.	.	1			
116	09019-30020		RING,CAMSHAFT ADJUST	.	.	1			
117	09019-40010		PLATE,CAMSHAFT SHIM T=0.10	.	.	AR			
	09019-40020		PLATE,CAMSHAFT SHIM T=0.12	.	.	AR			
	09019-40030		PLATE,CAMSHAFT SHIM T=0.14	.	.	AR			
	09019-40040		PLATE,CAMSHAFT SHIM T=0.16	.	.	AR			
	09019-40050		PLATE,CAMSHAFT SHIM T=0.18	.	.	AR			
	09019-40060		PLATE,CAMSHAFT SHIM T=0.50	.	.	AR			
	09019-40110		PLATE,CAMSHAFT SHIM T=0.30	.	.	AR			
	09019-40140		PLATE,CAMSHAFT SHIM T=1.00	.	.	AR			
	09019-40150		PLATE,CAMSHAFT SHIM T=1.50	.	.	AR			
	09019-40290		PLATE,CAMSHAFT SHIM T=2.00	.	.	AR			
	09019-40400		PLATE,CAMSHAFT SHIM T=0.03	.	.	AR			
118	94910-10120		BEARING,ROLLER	.	.	1			A
119	91418-06201		BOLT,W/WASHER	.	.	4			A
120	09021-20020		RACK,CONTROL	.	.	1			
121	09021-50060		SCREW,RACK GUIDE	.	.	1			
122	09018-90090		PLUG,FELT PLATE	.	.	4			
123	09031-00130		VALVE ASSY,OVERFLOW	.	.	1			
124	94914-02570		O-RING	.	.	4			A
125	09019-30050		RING,ADJUSTING	.	.	1			
126	09019-40070		PLATE,CAMSHAFT SHIM T=0.10	.	.	AR			
	09019-40080		PLATE,CAMSHAFT SHIM T=0.15	.	.	AR			
	09019-40090		PLATE,CAMSHAFT SHIM T=0.30	.	.	AR			
	09019-40100		PLATE,CAMSHAFT SHIM T=0.50	.	.	AR			
	09019-40160		PLATE,CAMSHAFT SHIM T=1.00	.	.	AR			
	09019-40170		PLATE,CAMSHAFT SHIM T=1.50	.	.	AR			
	09019-40340		PLATE,CAMSHAFT SHIM T=0.12	.	.	AR			
	09019-40350		PLATE,CAMSHAFT SHIM T=0.14	.	.	AR			
	09019-40360		PLATE,CAMSHAFT SHIM T=0.18	.	.	AR			
	09019-40410		PLATE,CAMSHAFT SHIM T=0.30	.	.	AR			
127	09027-01460		COVER SUB ASSY,PUMP	.	.	1			
128	09024-30030		PACKING,AIR BLEEDER	.	.	2			A
129	09027-60030		SCREW,HEXAGON	.	.	2			
130	09027-50182		COVER,PLATE	.	.	1			

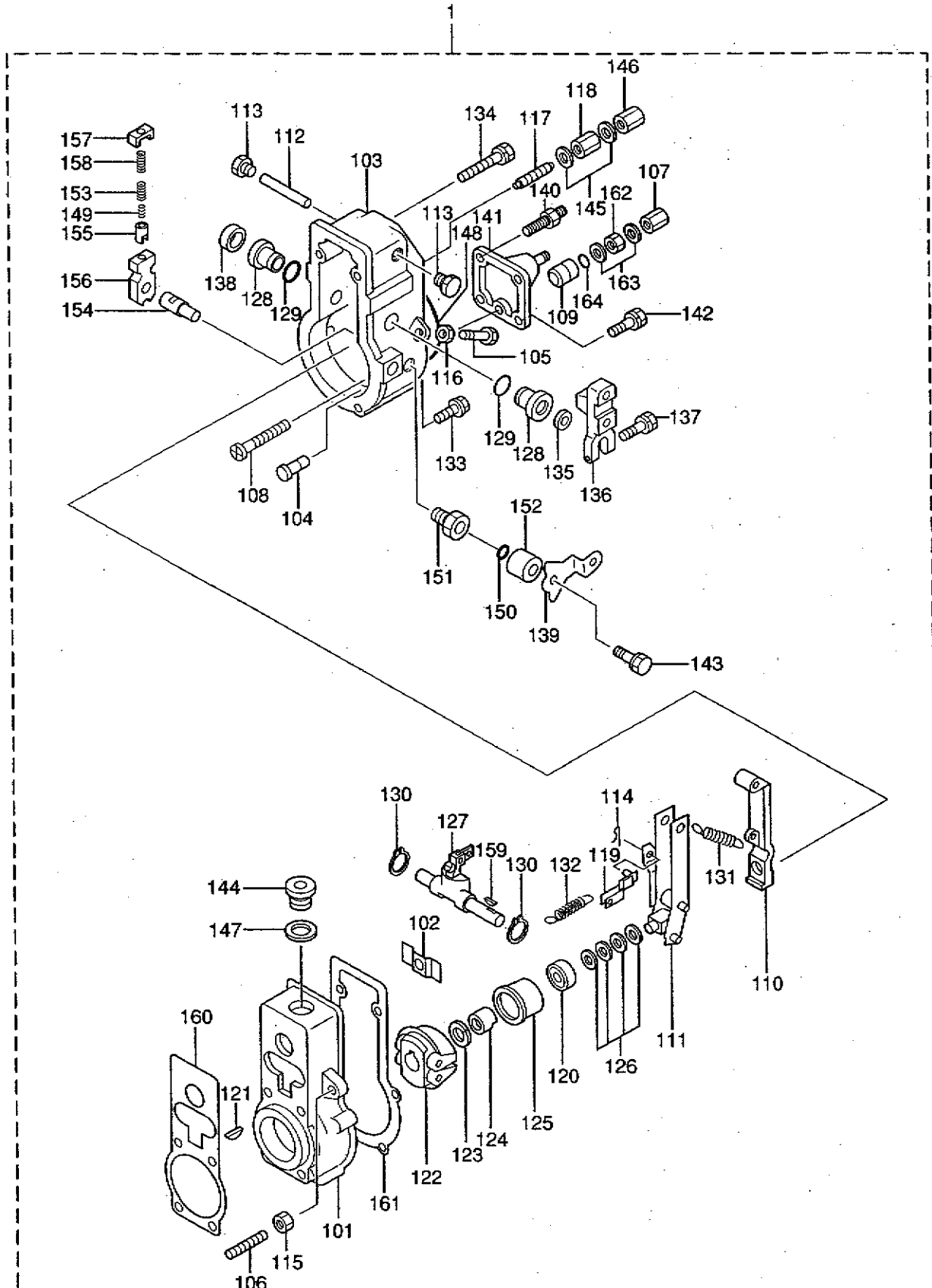
61-03-02 INJECTION PUMP
(FOR 3)

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61-04-01 GOVERNOR
(FOR 1)

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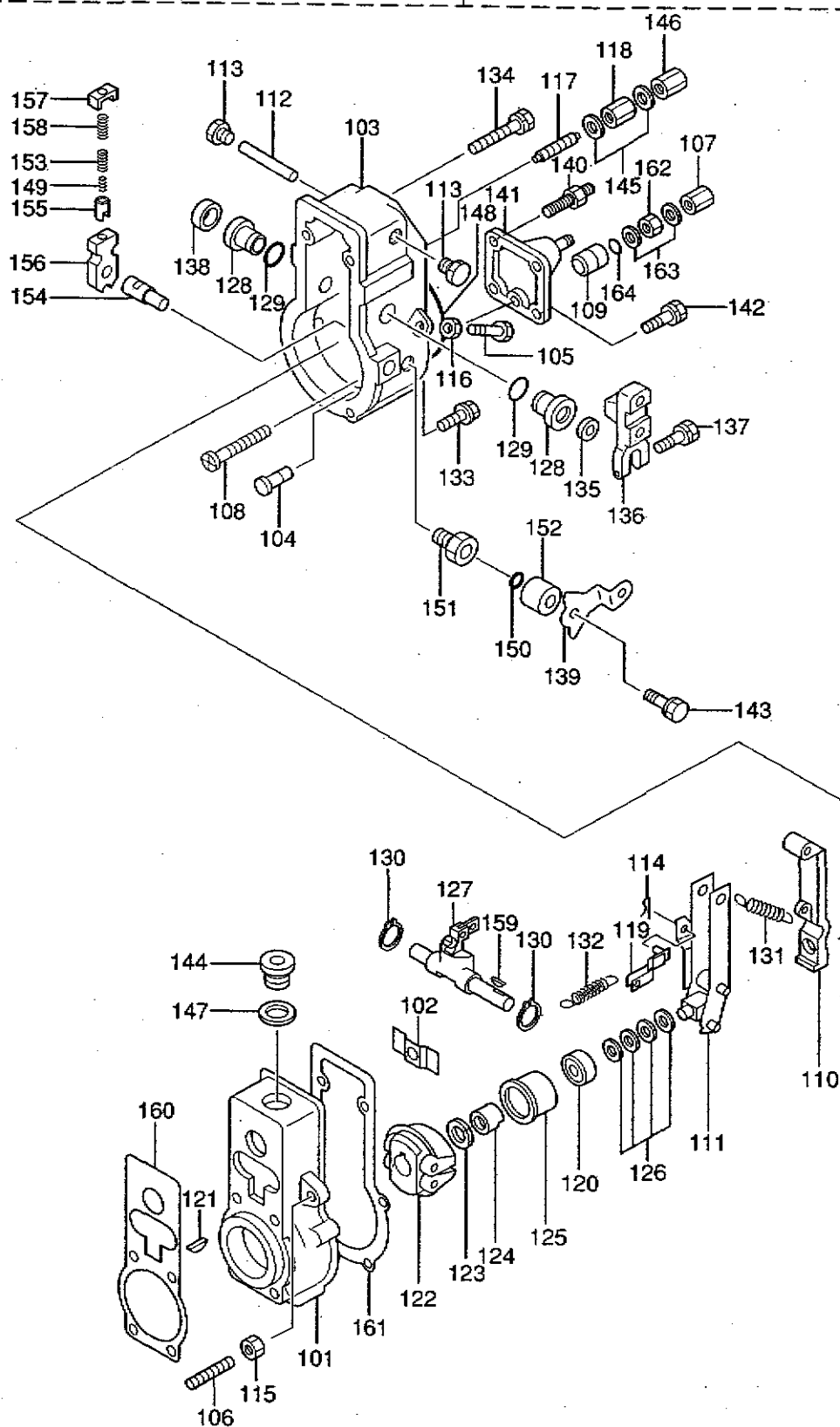
61-04-01 GOVERNOR
(FOR 1)

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REF. NO.	PART NO.	RSC ENG P Q G	PART NAME & DESCRIPTION	MODEL & QTY			APPLICABLE SERIAL NO.		M/R RD
				1	2	3	FROM@-	-@UPTO	
1	*		GOVERNOR ASSY 190800-6540 DEN	1	.	.			
101	09081-00660		HOUSING SUB ASSY	1	.	.			
102	09087-80030		PLATE	1	.	.			
103	09101-11670		COVER, GOVERNOR	1	.	.			
104	09101-40090		PIN, STOP	1	.	.			
105	09102-40031		SCREW, ADJUSTING	1	.	.			
106	09102-40260		SCREW, ADJUSTING	1	.	.			
107	09103-10151		NUT, CAP	1	.	.			
108	09100-60150		SCREW, ADJUSTING	1	.	.			
109	09094-40310		BUSHING	1	.	.			
110	09090-10150		LEVER, TENSION	1	.	.			
111	09093-00041		LEVER ASSY, CONTROL	1	.	.			
112	09098-90010		SHAFT, LEVER SUPPORT	1	.	.			
113	09099-10010		PLUG, SCREW	2	.	.			
114	90400-02101		PIN, SPLIT	1	.	.			
115	90190-08051		NUT, HEXAGON	1	.	.			
116	94805-30051		NUT, HEXAGON W/HOLE	1	.	.			
117	09056-00160		CAPSULE, STOP	1	.	.			
118	09092-30060		NUT, ADAPTER LOCK	1	.	.			
119	09097-00170		SHACKLE	1	.	.			
120	94910-00010		BEARING, BALL	1	.	.			
121	94913-00050		KEY, WOODRUFF	1	.	.			
122	09084-00660		FLYWEIGHT SUB ASSY	1	.	.			
123	94901-50500		WASHER, SPRING	1	.	.			
124	09084-40010		NUT, ROUND	1	.	.			
125	09086-10010		SLEEVE, GOVERNOR	1	.	.			
126	94901-34060		WASHER, PLATE T=0.2	AR	.	.			
	94901-34070		WASHER, PLATE T=0.3	AR	.	.			
	94901-34080		WASHER, PLATE T=0.4	AR	.	.			
	94901-34090		WASHER, PLATE T=0.1	AR	.	.			
	94901-34100		WASHER, PLATE T=1.0	AR	.	.			
127	09088-00140		LEVER, SWIVELING	1	.	.			
128	09089-20080		BUSHING, LEVER	2	.	.			
129	90801-20160		O-RING	2	.	.			
130	94907-10090		WASHER, SNAP	2	.	.			
131	09099-20020		SPRING, CONTROL	1	.	.			
132	09099-30010		SPRING, START	1	.	.			
133	94904-71760		BOLT, W/WASHER	4	.	.			
134	94904-71750		BOLT, W/WASHER	2	.	.			
135	94915-00210		SEAL, OIL	1	.	.			
136	09107-11930		LEVER, ADJUSTING	1	.	.			
137	94904-71190		BOLT, W/WASHER	1	.	.			
138	09109-40060		CAP, LEVER	1	.	.			
139	09109-80950		STOPPER	1	.	.			
140	94904-32250		BOLT, STUD	2	.	.			
141	09105-00491		PLATE, COVER	1	.	.			
142	94904-72701		BOLT, W/WASHER	2	.	.			
143	91418-06141		BOLT, W/WASHER	1	.	.			
144	09116-70050		PLUG, SCREW	1	.	.			
145	09024-10010		WASHER, NIPPLE	2	.	.			

61-04-01 GOVERNOR
(FOR 1)

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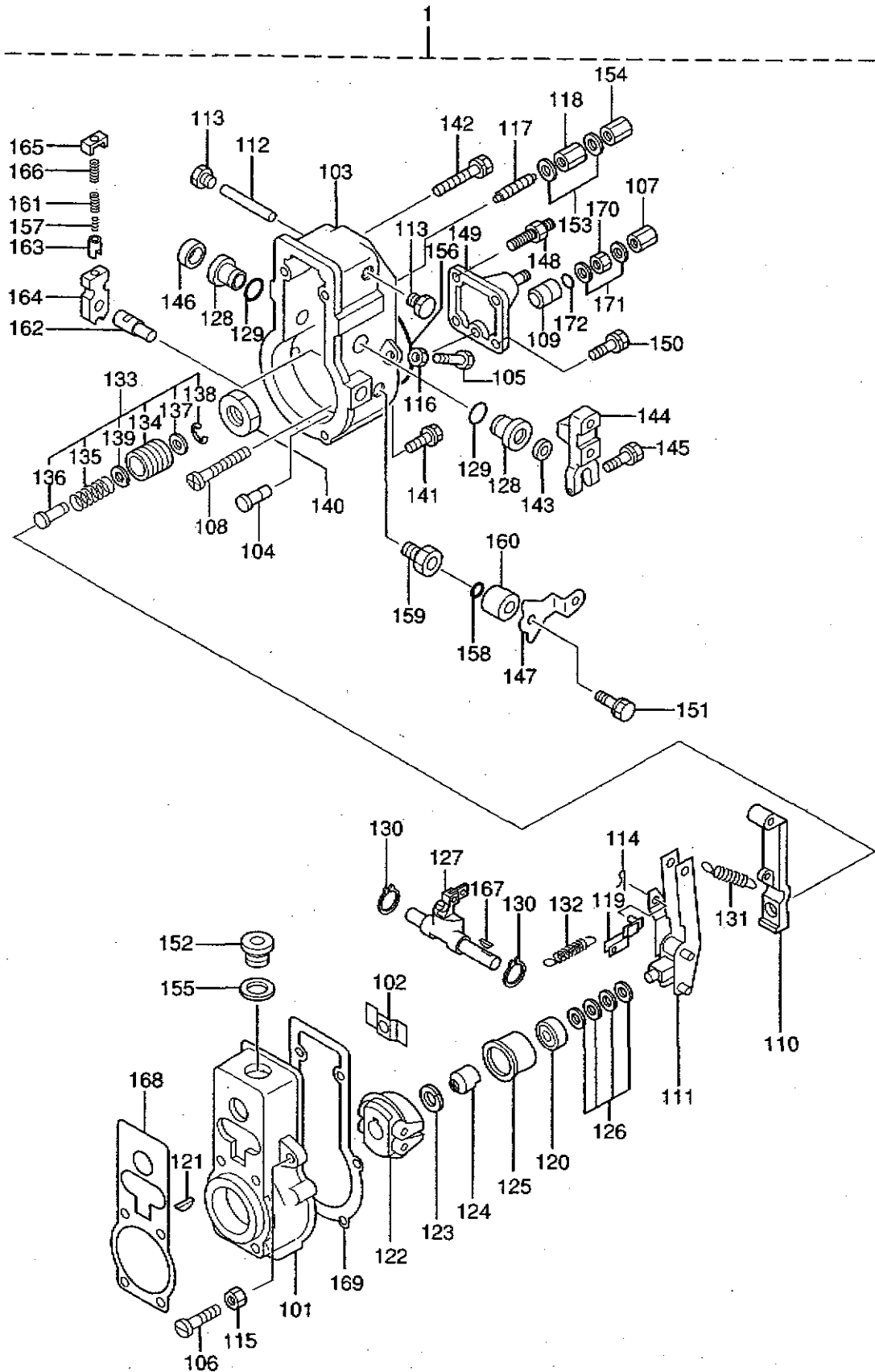


61-04-01 GOVERNOR
(FOR 1)

[illegible]

61-04-02 GOVERNOR
(FOR 2)

- 90-



1.S4S-Y165DG
2.S4S-Y165DP
3.S4S-Y1DT65DG

61-04-02 GOVERNOR
(FOR 2)

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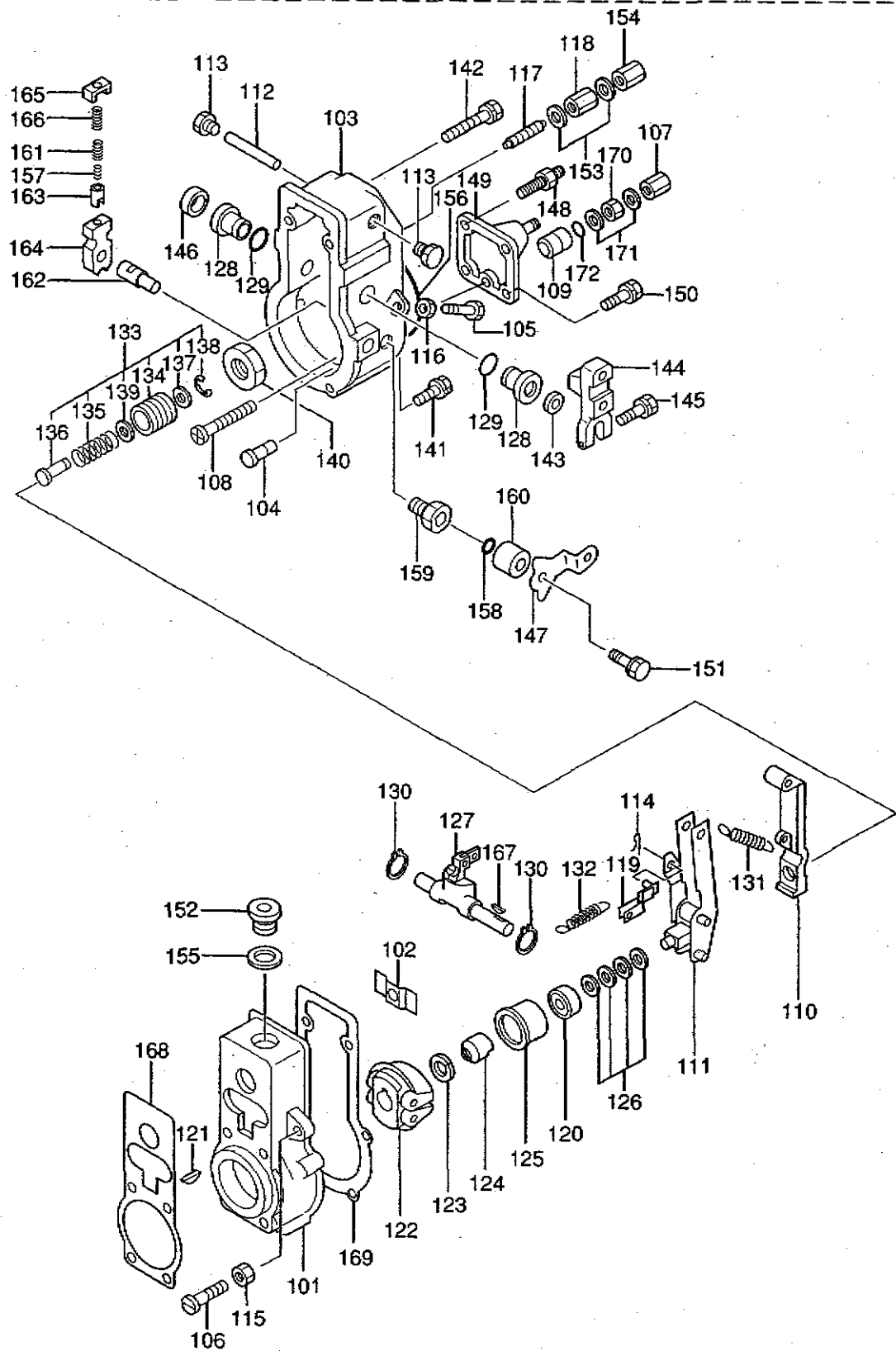
REF. NO.	PART NO.	RSC EN PQ	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		MV /R RD
				1	2	3	FROM@-	-@UPTO	
1	*		GOVERNOR ASSY 190800-6690 DEN	.	1	.			
101	09081-00660		HOUSING SUB ASSY	.	1	.			
102	09087-80030		PLATE	.	1	.			
103	09101-11670		COVER, GOVERNOR	.	1	.			
104	09101-40090		PIN, STOP	.	1	.			
105	09102-40031		SCREW, ADJUSTING	.	1	.			
106	09102-40211		SCREW, ADJUSTING	.	1	.			
107	09103-10151		NUT, CAP	.	1	.			
108	09100-60150		SCREW, ADJUSTING	.	1	.			
109	09094-40310		BUSHING	.	1	.			
110	09090-10150		LEVER, TENSION	.	1	.			
111	09093-00041		LEVER ASSY, CONTROL	.	1	.			
112	09098-90010		SHAFT, LEVER SUPPORT	.	1	.			
113	09099-10010		PLUG, SCREW	.	2	.			
114	90400-02101		PIN, SPLIT	.	1	.			
115	90190-08051		NUT, HEXAGON	.	1	.			
116	94805-30051		NUT, HEXAGON W/HOLE	.	1	.			
117	09056-00170		CAPSULE, FULL STOP	.	1	.			
118	09092-30060		NUT, ADAPTER LOCK	.	1	.			
119	09097-00170		SHACKLE ASSY	.	1	.			
120	94910-00010		BEARING, BALL	.	1	.			
121	94913-00050		KEY, WOODRUFF	.	1	.			
122	09084-00570		FLYWEIGHT ASSY	.	1	.			
123	94901-50500		WASHER, SPRING	.	1	.			
124	09084-40010		NUT, ROUND	.	1	.			
125	09086-10010		SLEEVE, GOVERNOR	.	1	.			
126	94901-34060		WASHER, PLATE T=0.2	.	AR	.			
	94901-34070		WASHER, PLATE T=0.3	.	AR	.			
	94901-34080		WASHER, PLATE T=0.4	.	AR	.			
	94901-34090		WASHER, PLATE T=0.1	.	AR	.			
	94901-34100		WASHER, PLATE T=1.0	.	AR	.			
127	09088-00140		LEVER ASSY, SWIVELING	.	1	.			
128	09089-20080		BUSHING, LEVER	.	2	.			
129	90801-20160		O-RING	.	2	.			
130	94907-10090		WASHER, SNAP	.	2	.			
131	09099-20051		SPRING, SPEED CONTROL	.	1	.			
132	09099-30010		SPRING, START	.	1	.			
133	09091-00650		ADAPTER ASSY	.	1	.			
134	09091-10010		SCREW, ADAPTER	.	1	.			
135	09091-80011		SPRING, MECH GOVERNOR	.	1	.			
136	09091-90010		ADAPTER	.	1	.			
137	09092-10010		WASHER	.	1	.			
138	09089-40010		E-RING	.	1	.			
139	94901-33880		WASHER, PLATE T=0.10	.	AR	.			
	94901-34020		WASHER, PLATE T=0.25	.	AR	.			
	94901-34030		WASHER, PLATE T=0.50	.	AR	.			
	94901-34040		WASHER, PLATE T=0.20	.	AR	.			
	94901-37880		WASHER, PLATE T=1.00	.	AR	.			
140	09092-30011		NUT, ADAPTER LOCK	.	1	.			
141	94904-71760		BOLT, W/WASHER	.	4	.			

02-06-11

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61-04-02 GOVERNOR
(FOR 2)

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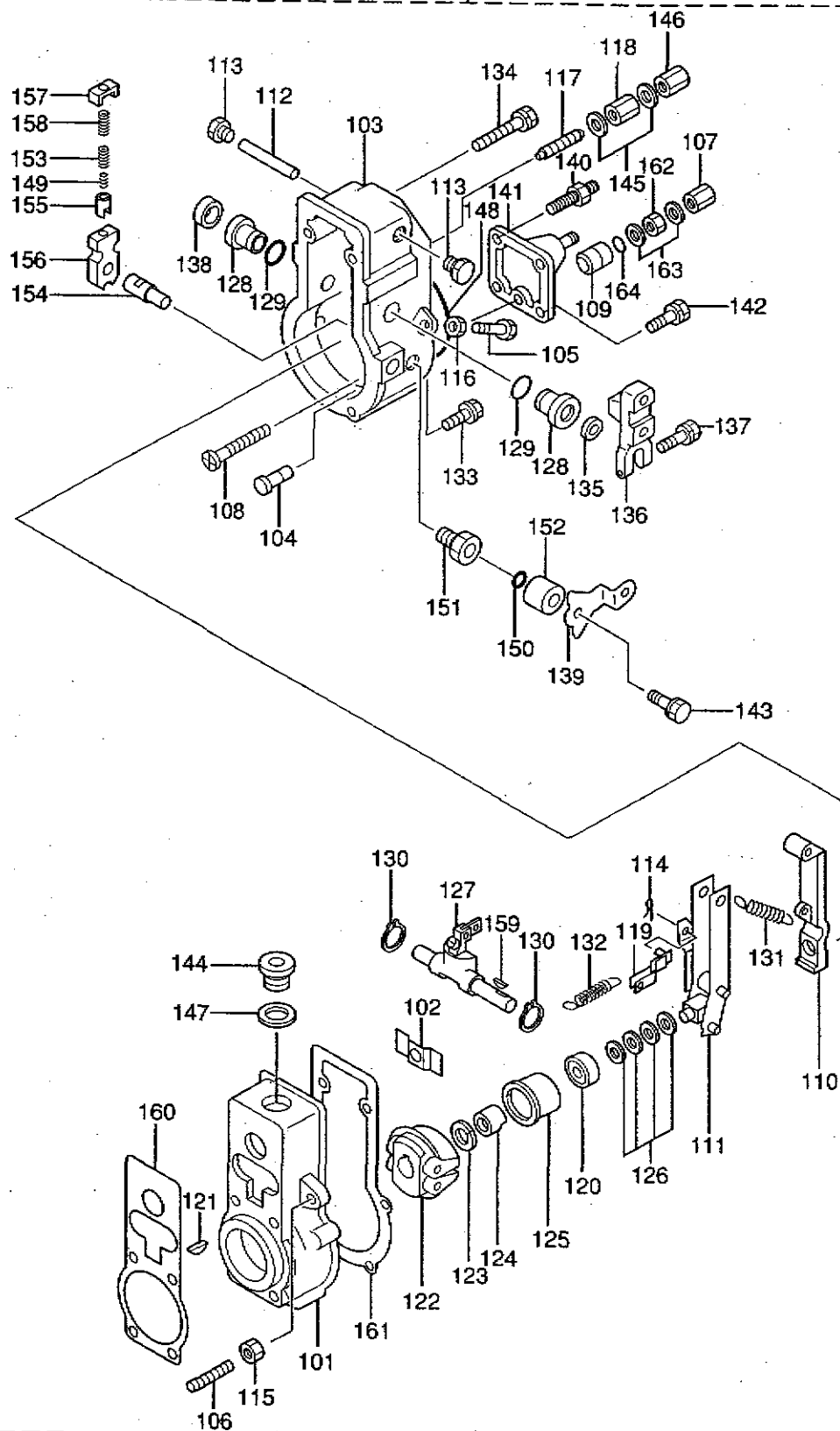


61-04-02 GOVERNOR
(FOR 2)

[illegible]

61-04-03 GOVERNOR
(FOR 3)

- 94-



1.S4S-Y165DG
2.S4S-Y165DP
3.S4S-Y1DT65DG

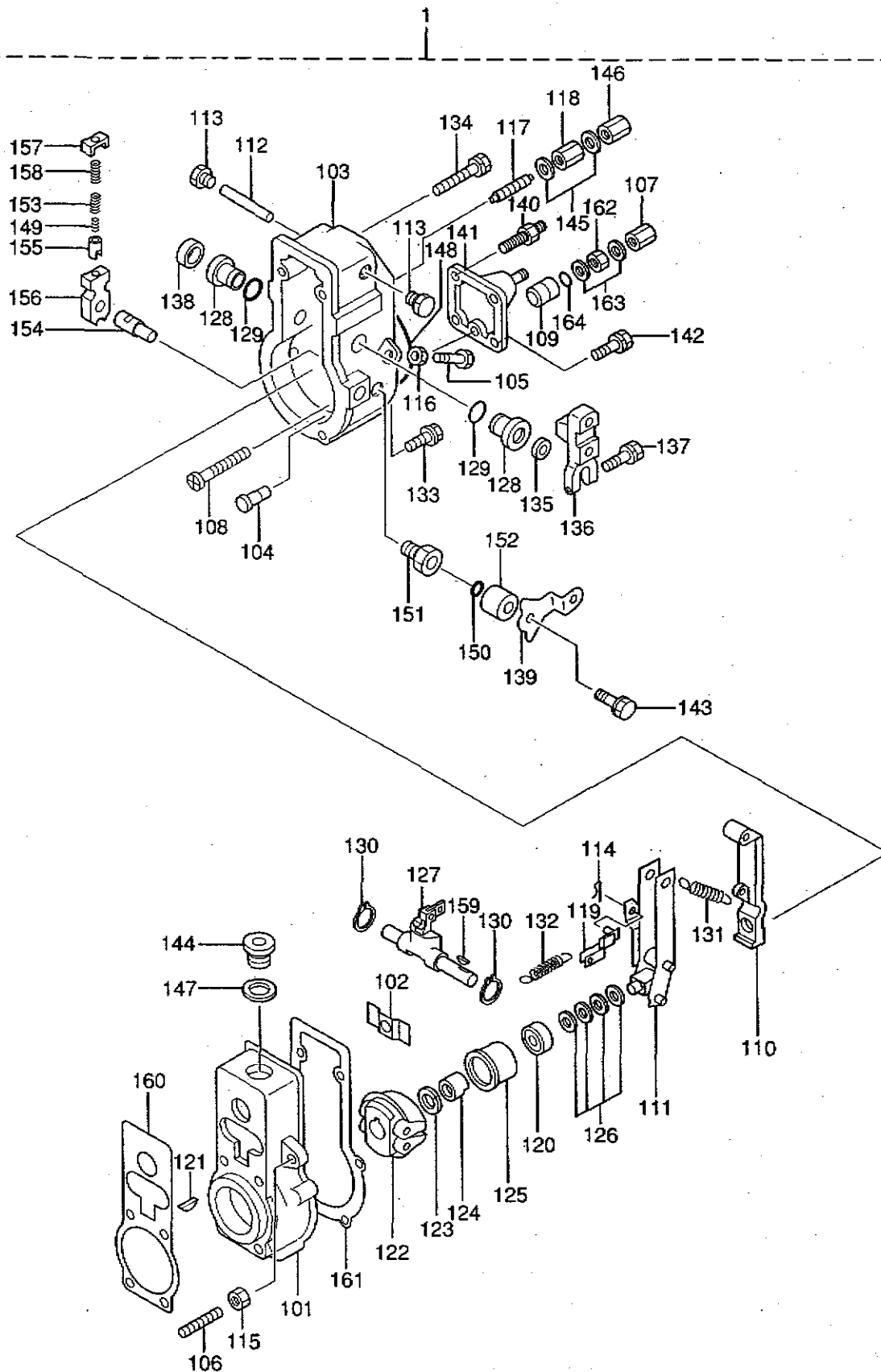
61-04-03 GOVERNOR
(FOR 3)

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1	*		GOVERNOR ASSY 190800-6730 DEN	.	.	1			
101	09081-00660		HOUSING SUB ASSY	.	.	1			
102	09087-80030		PLATE	.	.	1			
103	09101-11670		COVER, GOVERNOR	.	.	1			
104	09101-40090		PIN, STOP	.	.	1			
105	09102-40031		SCREW, ADJUSTING	.	.	1			
106	09102-40260		SCREW, ADJUSTING	.	.	1			
107	09103-10151		NUT, CAP	.	.	1			
108	09100-60150		SCREW, ADJUSTING	.	.	1			
109	09094-40310		BUSHING	.	.	1			
110	09090-10150		LEVER, TENSION	.	.	1			
111	09093-00041		LEVER ASSY, CONTROL	.	.	1			
112	09098-90010		SHAFT, LEVER SUPPORT	.	.	1			
113	09099-10010		PLUG, SCREW	.	.	2			
114	90400-02101		PIN, SPLIT	.	.	1			
115	90190-08051		NUT, HEXAGON	.	.	1			
116	94805-30051		NUT, HEXAGON W/HOLE	.	.	1			
117	09056-00150		CAPSULE, FULL STOP	.	.	1			
118	09092-30060		NUT, ADAPTER LOCK	.	.	1			
119	09097-00170		SHACKLE ASSY	.	.	1			
120	94910-00010		BEARING, BALL	.	.	1			
121	94913-00050		KEY, WOODRUFF	.	.	1			
122	09084-00560		FLYWEIGHT ASSY	.	.	1			
123	94901-50500		WASHER, SPRING	.	.	1			
124	09084-40010		NUT, ROUND	.	.	1			
125	09086-10010		SLEEVE, GOVERNOR	.	.	1			
126	94901-34060		WASHER, PLATE T=0.2	.	.	AR			
	94901-34070		WASHER, PLATE T=0.3	.	.	AR			
	94901-34080		WASHER, PLATE T=0.4	.	.	AR			
	94901-34090		WASHER, PLATE T=0.1	.	.	AR			
	94901-34100		WASHER, PLATE T=1.0	.	.	AR			
127	09088-00140		LEVER ASSY, SWIVELING	.	.	1			
128	09089-20080		BUSHING, LEVER	.	.	2			
129	90801-20160		O-RING	.	.	2			
130	94907-10090		WASHER, SNAP	.	.	2			
131	09099-20480		SPRING, SPEED CONTROL	.	.	1			
132	09099-30010		SPRING, START	.	.	1			
133	94904-71760		BOLT, W/WASHER	.	.	4			
134	94904-71750		BOLT, W/WASHER	.	.	2			
135	94915-00210		SEAL, OIL	.	.	1			
136	09107-11930		LEVER, ADJUSTING	.	.	1			
137	94904-71190		BOLT, W/WASHER	.	.	1			
138	09109-40060		CAP, LEVER	.	.	1			
139	09109-80950		STOPPER	.	.	1			
140	94904-32250		BOLT, STUD	.	.	2			
141	09105-00491		PLATE SUB ASSY, COVER	.	.	1			
142	94904-72701		BOLT, W/WASHER	.	.	2			
143	91418-06141		BOLT, W/WASHER	.	.	1			
144	09116-70050		PLUG, SCREW	.	.	1			
145	09024-10010		WASHER, NIPPLE	.	.	2			

61-04-03 GOVERNOR
(FOR 3)

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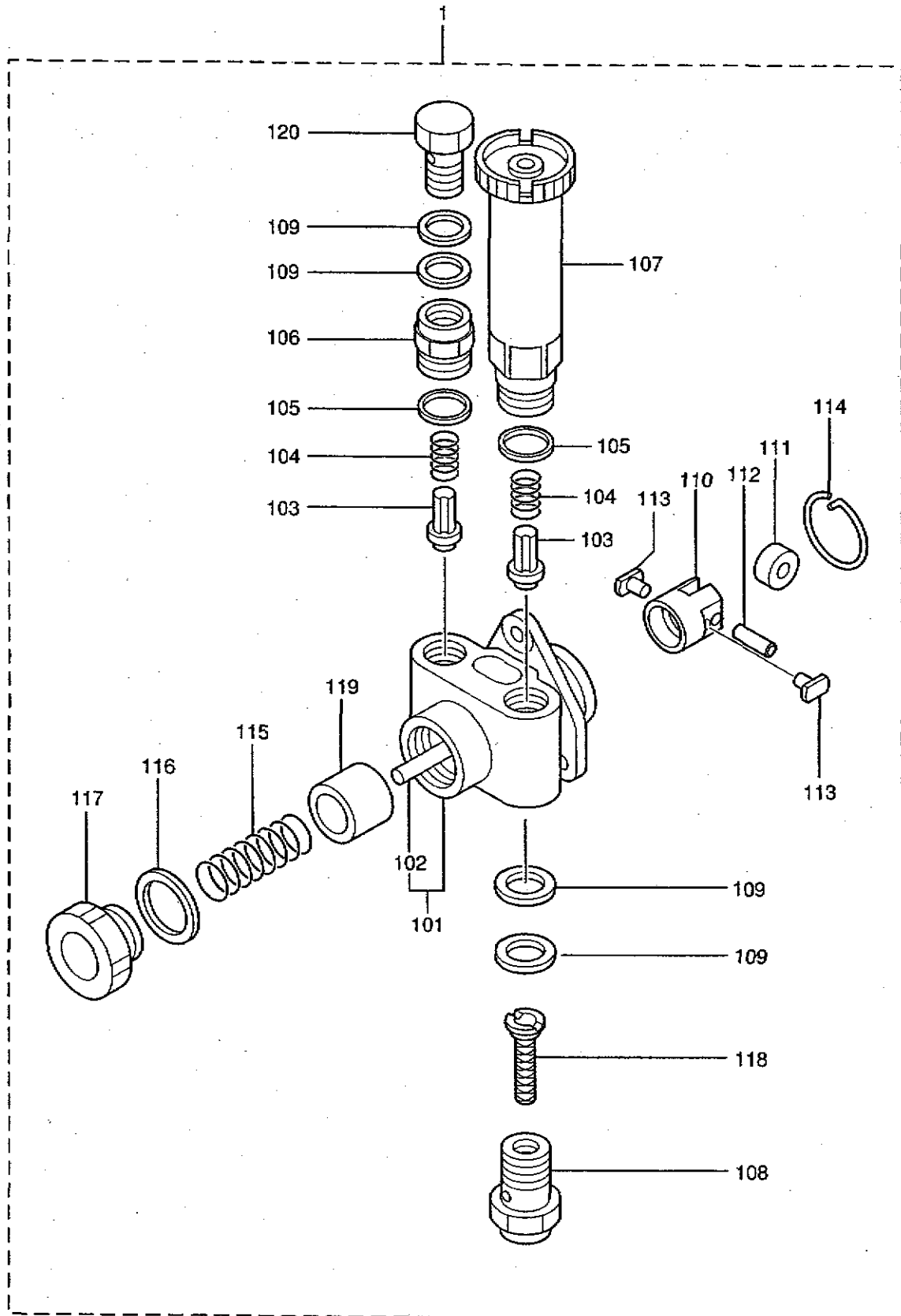


61-04-03 GOVERNOR
(FOR 3)

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61-05-01 FEED PUMP
(FOR 1, 2)

- 98-



3.S4S-Y1DT65DG

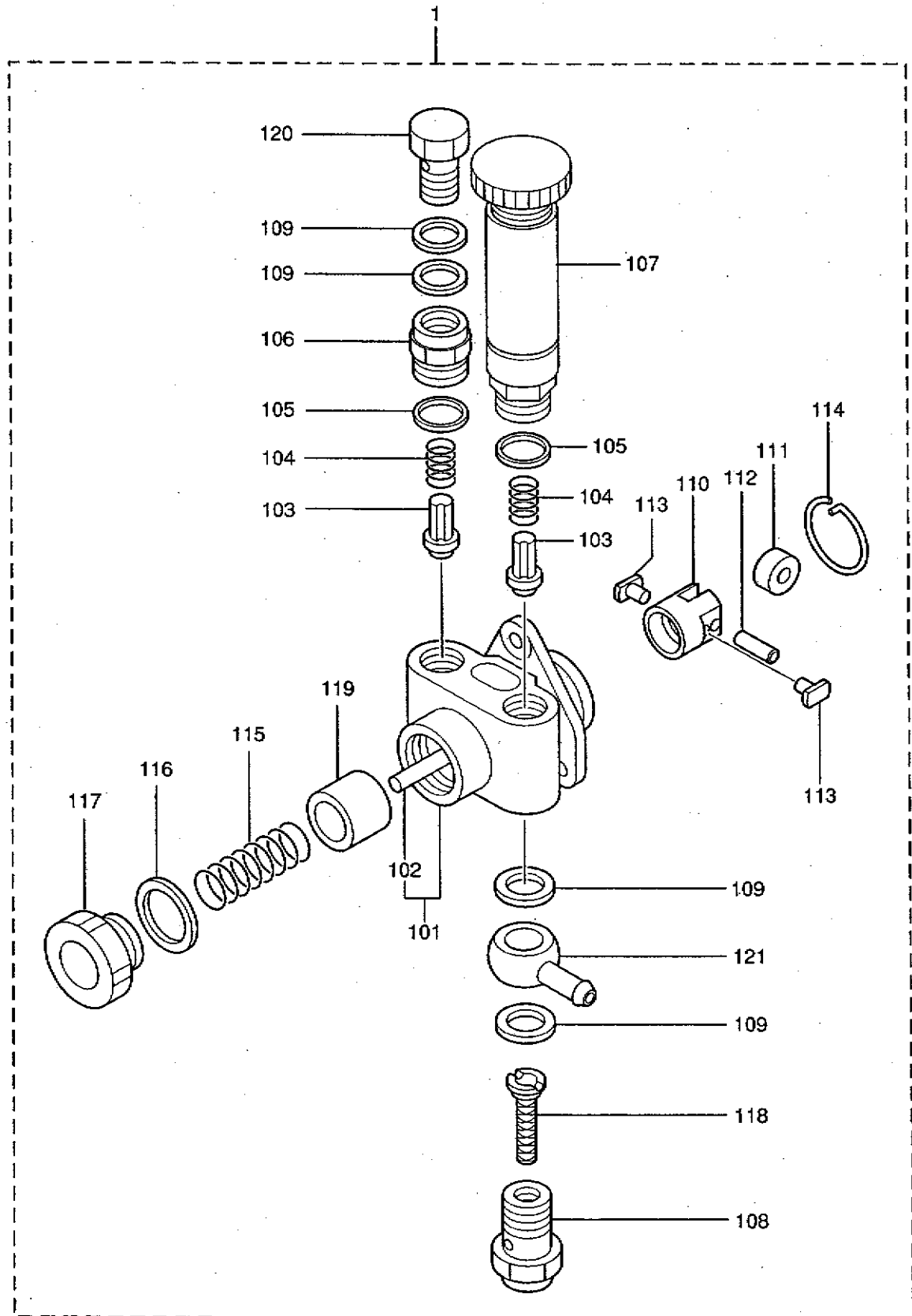
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- 99 -

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61-05-02 FEED PUMP
(FOR 3)

-100-

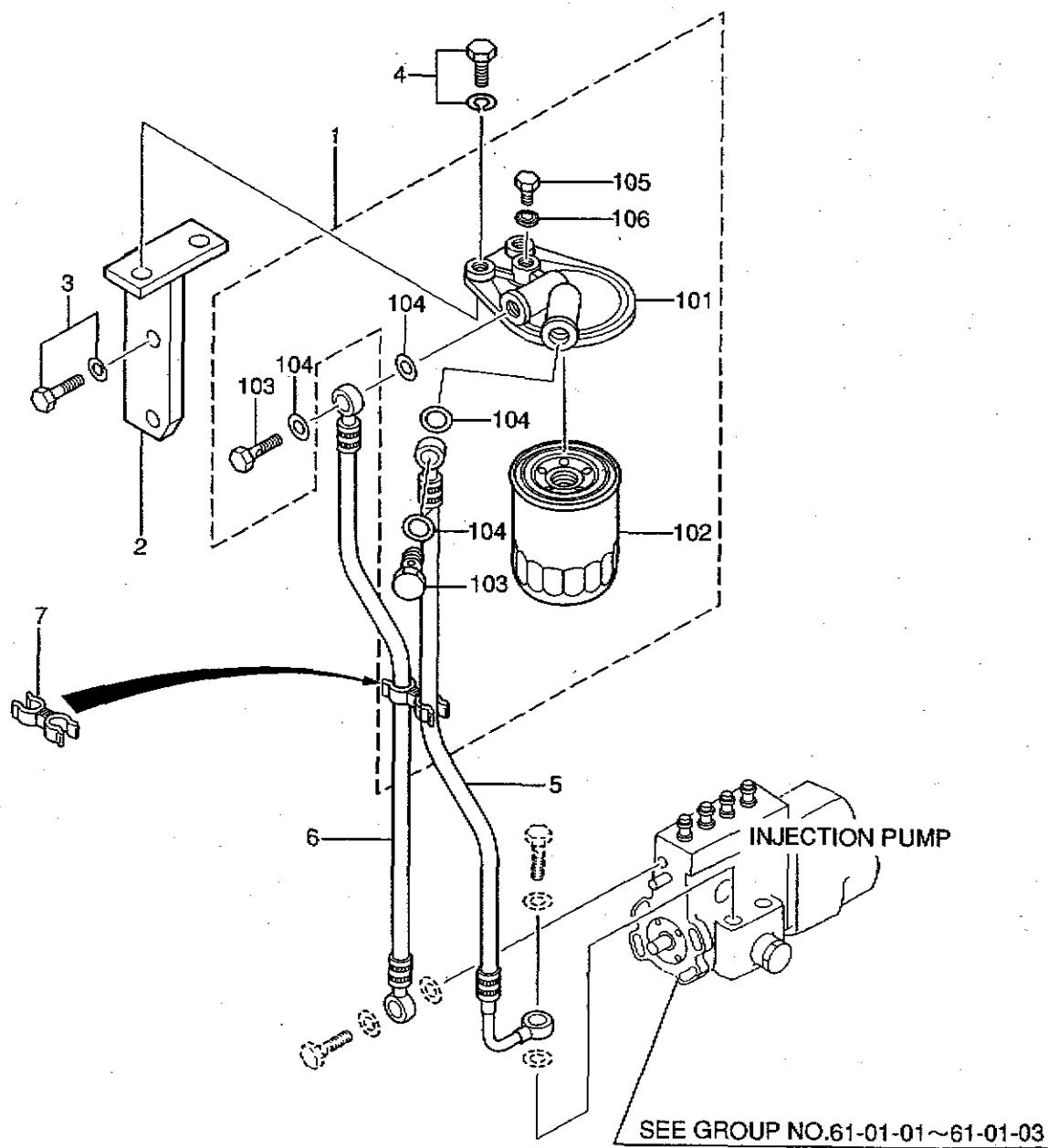


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MR	VR
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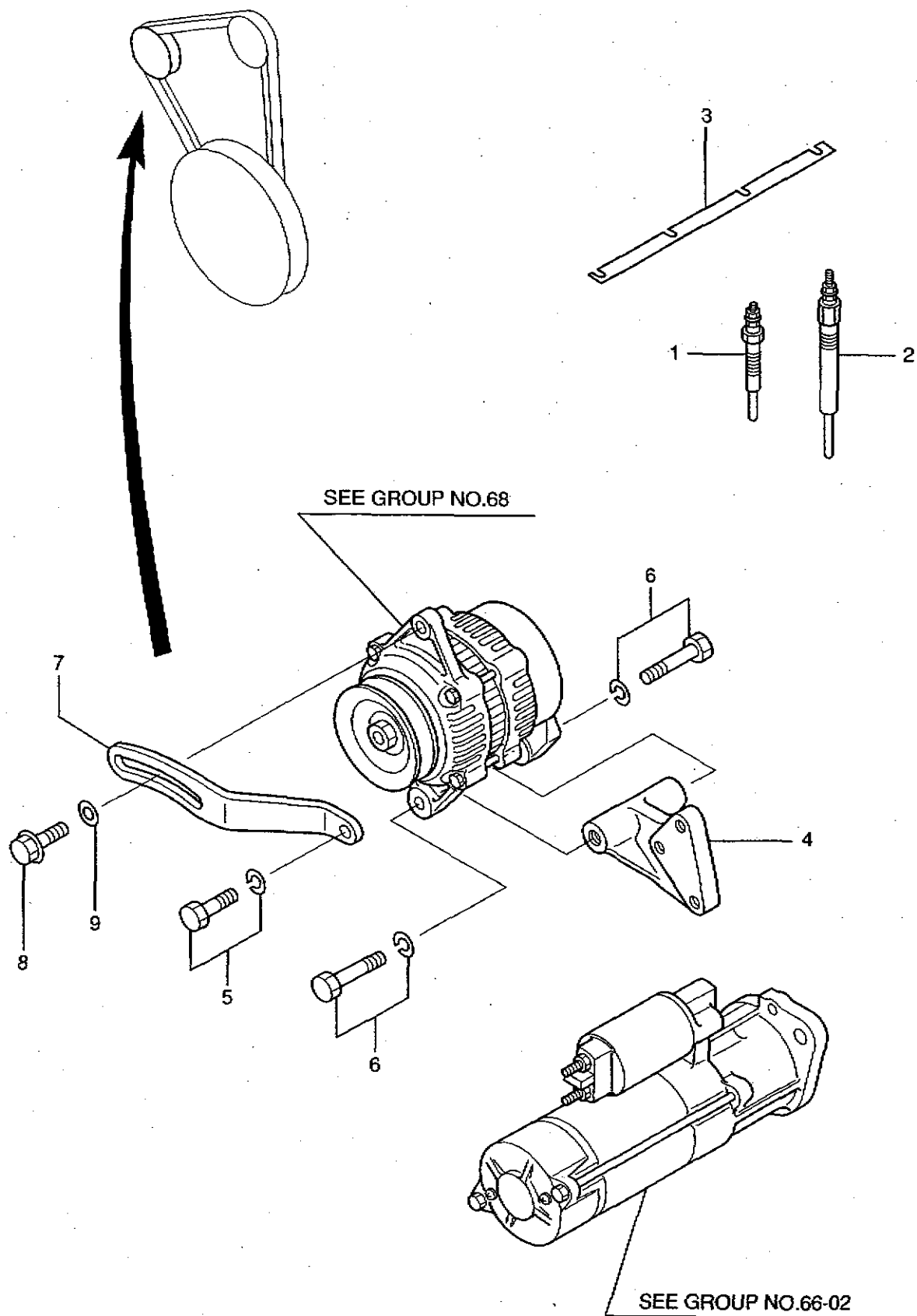


615A02-00

66-01

ELECTRIC PARTS

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2. S4S-Y165DP
3. S4S-Y1DT65DG

66-01 ELECTRIC PARTS

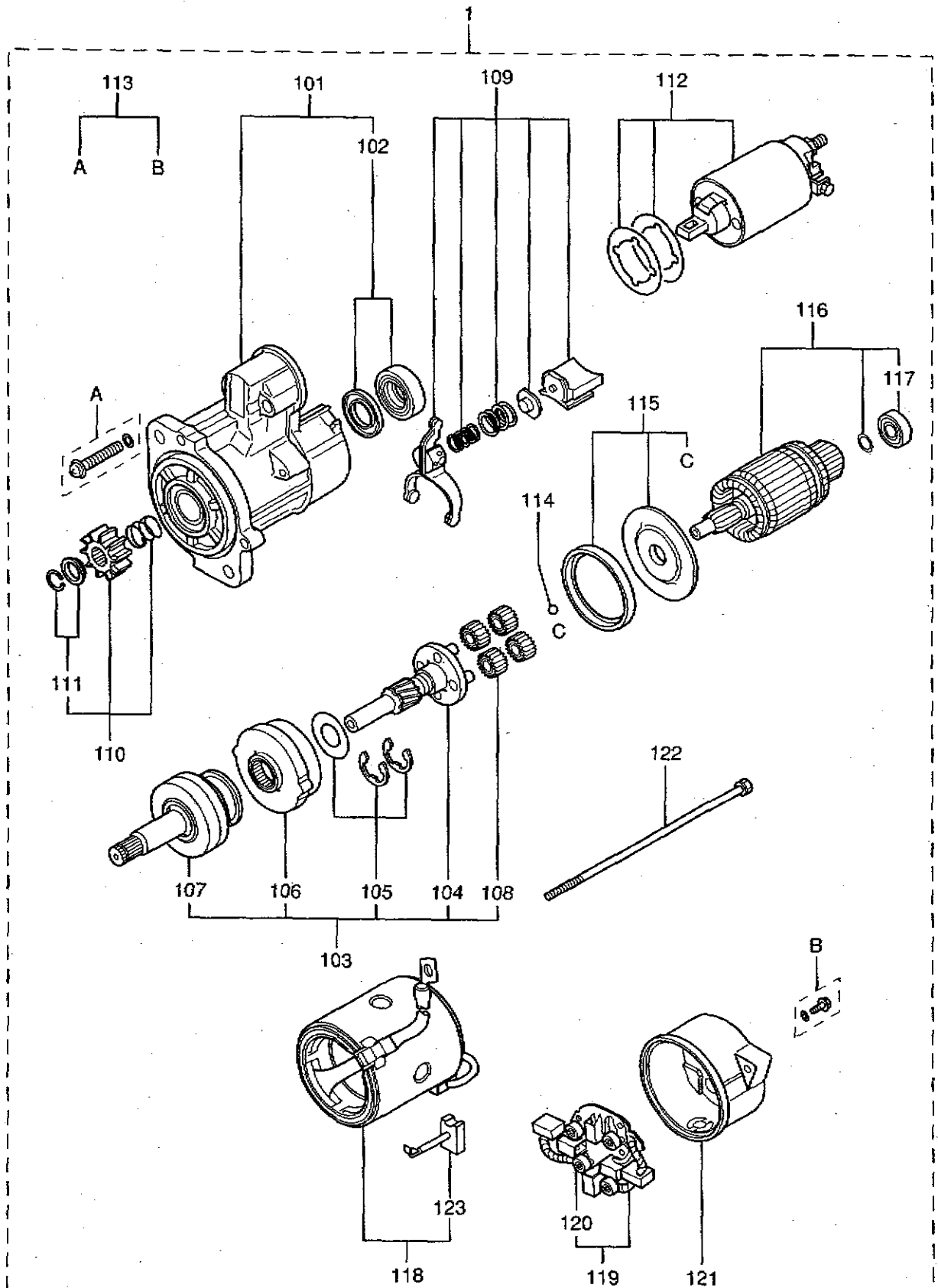
-105-

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66-02

STARTER (12V-2.2KW)

-106-



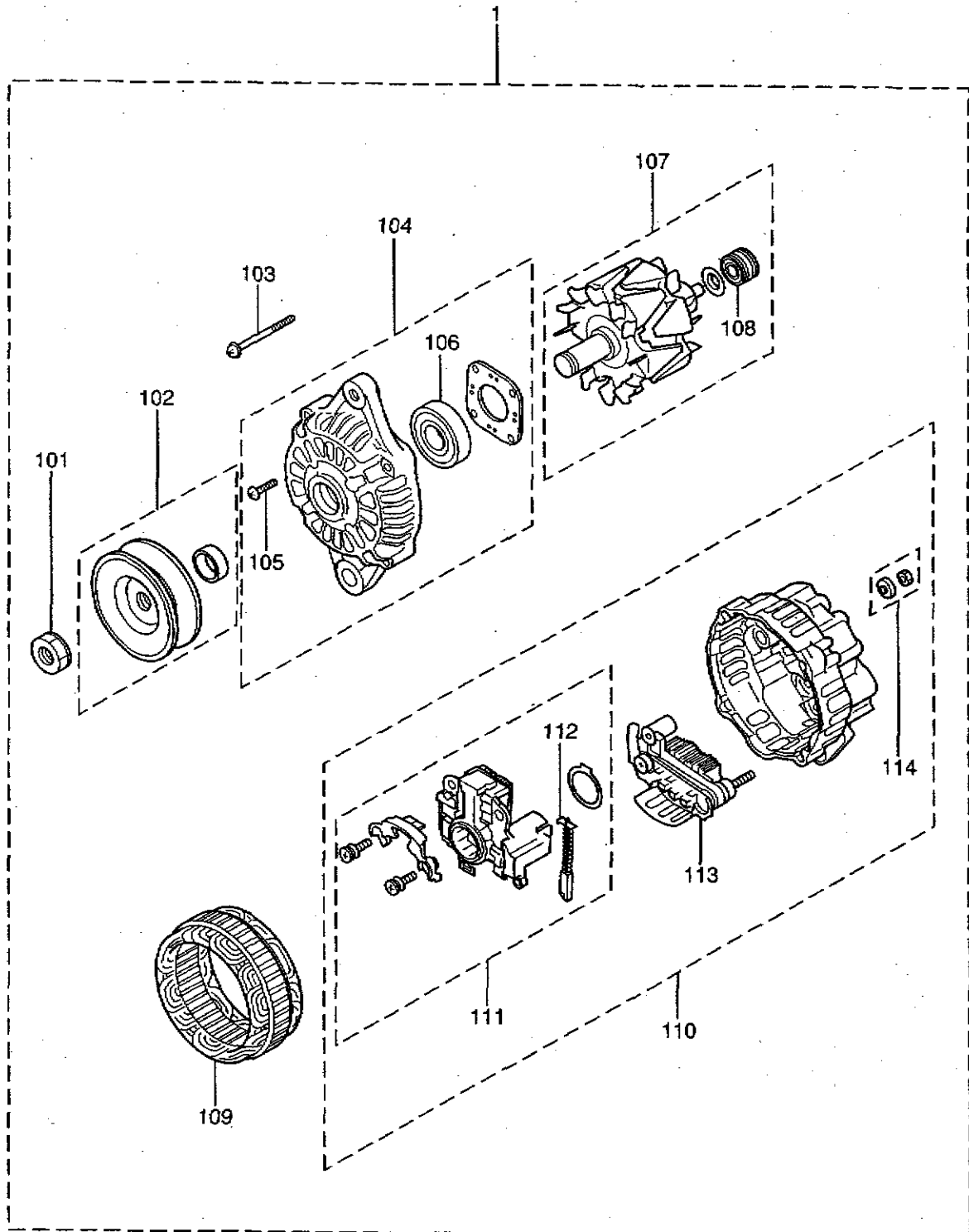
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2. S4S-Y165DP
3. S4S-Y1DT65DG

66-02 STARTER (12V-2.2KW)

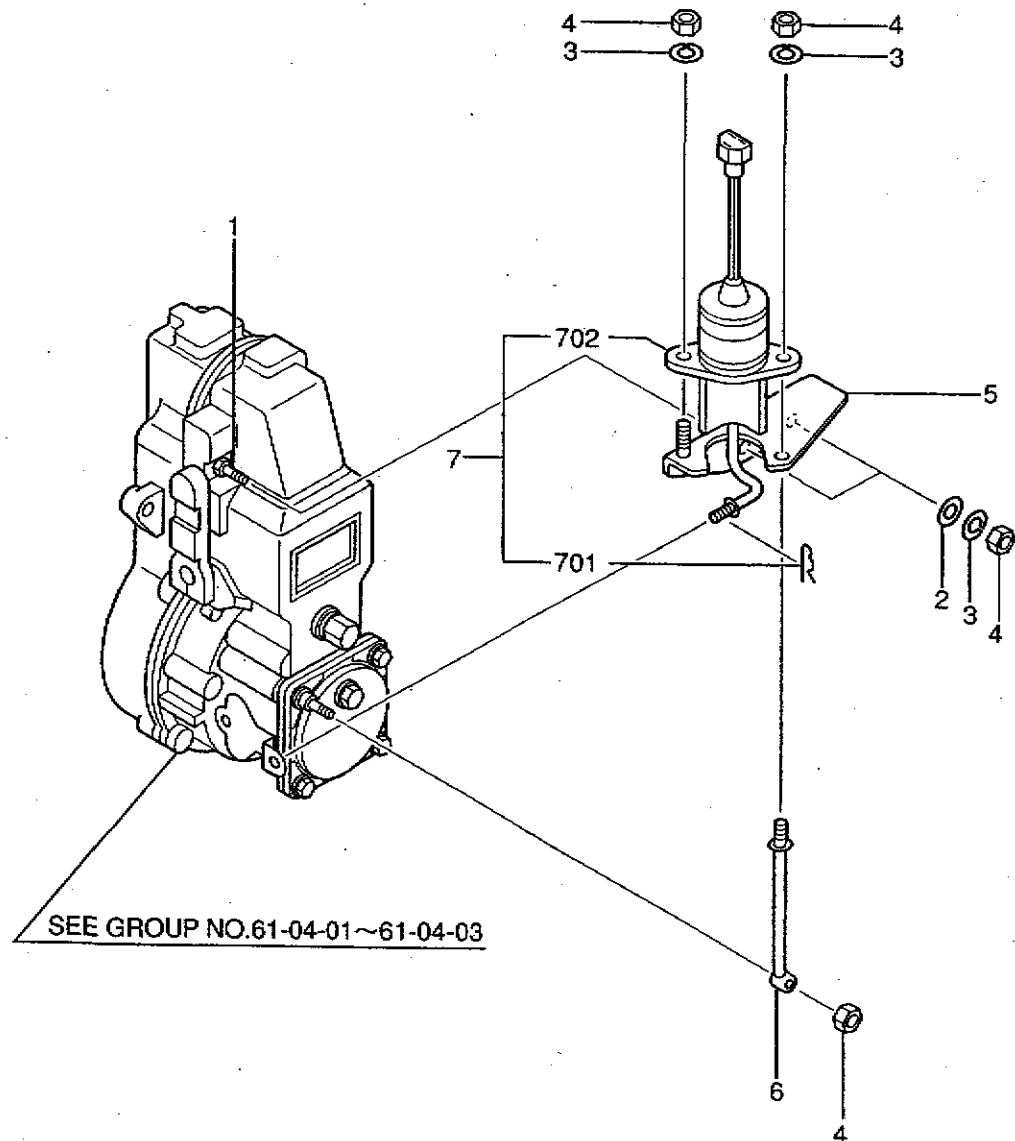
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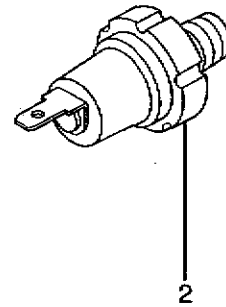
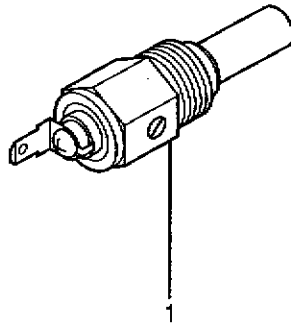
-110-



-111-

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2. S4S-Y165DP
3. S4S-Y1DT65DG

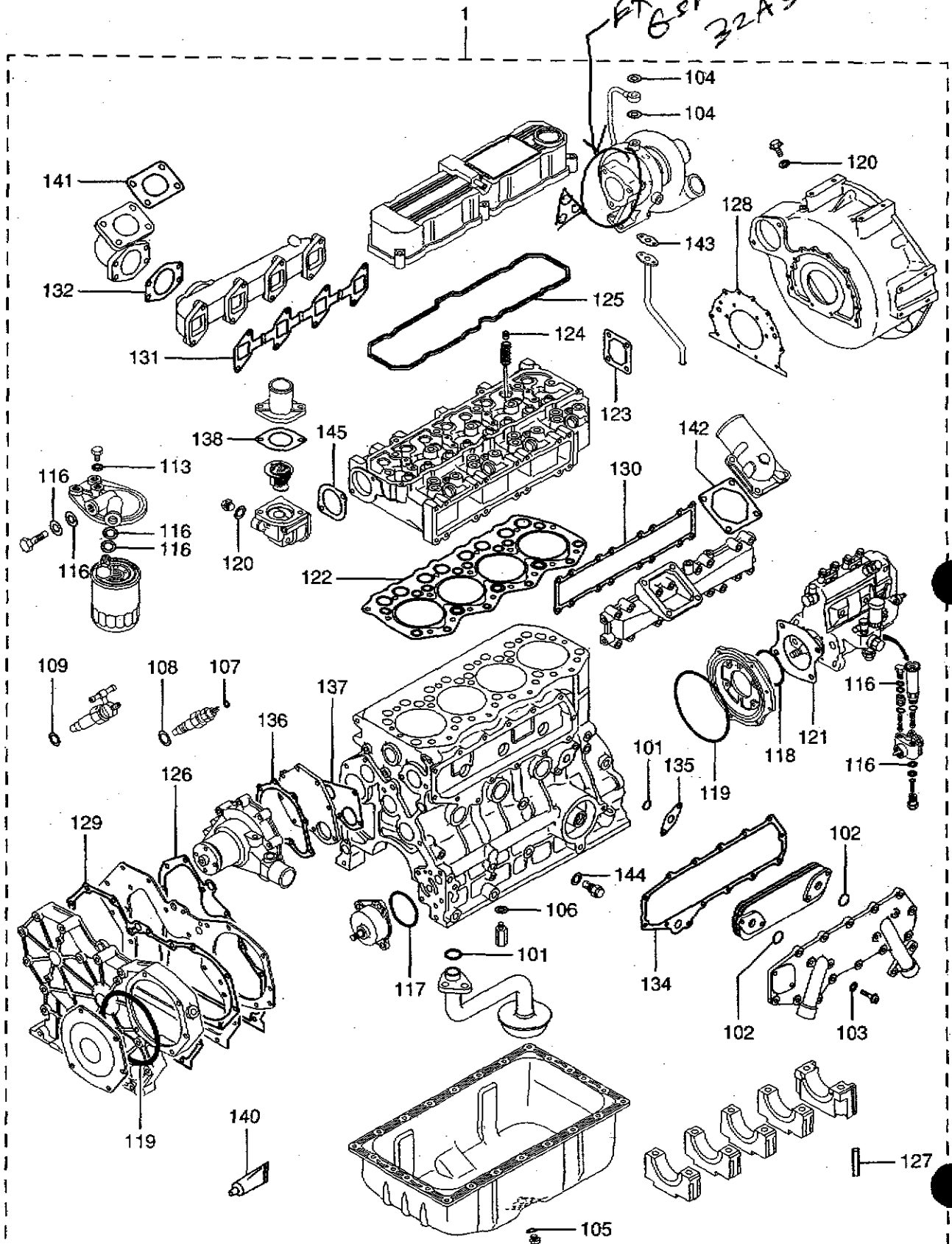
90

INSTRUMENT

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[illegible]

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REF. NO.	PART NO.	R/S P/Q	DESC Q/G	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		M/R RD
					1	2	3	SERIAL NO.		
								FROM@-	-@UPTO	
1	32A94-00040			GASKET KIT, (O/H)	1	1	1			
101	F3150-02000			O-RING	3	3	3			A
102	F3156-02500			O-RING	2	2	2			A
103	F4202-08000			GASKET	4	4	4			A
104	F4202-10000			GASKET	2	2	2			A
105	F4202-14000			GASKET	1	1	1			A
106	F4202-18000			GASKET	2	2	2			A
107	MD068355			GASKET,FUEL RETURN	4	4	4			A
108	MD070717			GASKET,HOLDER	4	4	4			A
109	MM432045			GASKET,NOZZLE HOLDER	4	4	4			A
113	05946-00801			WASHER,SEALING	1	1	1			A
116	05946-01401			WASHER,SEALING	10	10	10			A
117	06016-13060			O-RING	1	1	1			A
118	06016-13075			O-RING	1	1	1			A
119	06016-13140			O-RING	2	2	2			A
120	30636-25901			GASKET	2	2	2			A
121	30661-51300			GASKET	1	1	1			A
122	32A01-02203			GASKET,CYLINDER HEAD	1	1	1			
123	32A01-02501			GASKET,HEAD REAR	1	1	1			A
124	32A04-02801			SEAL,VALVE STEM	8	8	8			
125	32A04-13200			GASKET,ROCKER COVER	1	1	1			
126	32A07-04100			GASKET,FRONT PLATE	1	1	1			
127	32A07-11700			SEAL,SIDE	2	2	2			
128	32A07-14201			GASKET,REAR	1	1	1			
129	32A11-00200			GASKET,GEAR CASE	1	1	1			
130	32A30-00201			GASKET,INLET MANF	1	1	1			
131	32A32-00200			GASKET,EXHAUST MANF	1	1	1			
132	32A32-01400			GASKET,EXHAUST	1	1	1			A
134	32A39-01201			GASKET,SIDE COVER	1	1	1			
135	32A39-01401			GASKET	1	1	1			A
136	32A45-00400			GASKET,PUMP COVER	1	1	1			
137	32A45-00500			GASKET,WATER PUMP	1	1	1			
138	32A46-01400			GASKET,THERMOSTAT	1	1	1			
140	32A91-05100			GASKET,LIQUID	1	1	1			
141	34232-00300			GASKET,EXHAUST	1	1	1			A
142	34330-04300			GASKET,AIR HEATER	1	1	1			A
143	34336-04100			GASKET,OIL PIPE	1	1	1			A
144	34340-00700			GASKET	1	1	1			A
145	34446-05300			GASKET	1	1	1			A

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PART NO.	GRP NO.	PAGE	REF. NO.	PART NO.	GRP NO.	PAGE	REF. NO.	PART NO.	GRP NO.	PAGE	REF. NO.
A383T-4637068		109	109	F1805-08040	04-02-01	9	3	F2846-10000	20-01	33	101
A414X-1927168		109	103		04-02-02	11	3		20-02	35	101
2127168		109	105		30-01	41	3	12000	07-01-01	15	7
A529X-0557168		109	114		30-02	43	3		07-01-02	17	8
A628X-6507068		109	102	08045	46-01	59	2	F2850-04008	07-01-01	15	9
A640X-6917068		109	104		46-01	59	8		07-01-02	17	10
A642X-2907068		109	110		46-01	59	15	F2870-07022	05	13	3
A647X-5017068		109	112		46-02	61	2		20-01	33	102
A860X-5097068		109	113		46-02	61	8		20-02	35	102
A866X-4468268		109	111	08050	30-02	43	14	F3150-02000	36-01-01	47	7
A880X-9187068		109	107	08055	11-01	21	6		36-01-02	49	7
A930X-9457068		109	106		11-02	23	6		39-02	55	3
A981X-2077168		109	101	08065	11-01	21	9		94	115	101
F1035-06020	36-02	51	12		11-02	23	9	F3156-02500	39-02	55	501
08020	30-01	41	11	08075	46-01	59	7		94	115	102
08090	30-01	41	4		46-02	61	7	F3202-03000	17-01	29	8
12035	20-01	33	4	10020	23-01	37	5		17-02	31	8
	20-02	35	4		23-02	39	5	F4202-08000	39-02	55	502
F1450-10025	12	25	6	10025	12	25	3		94	115	103
10030	30-02	43	17		62	103	4	10000	36-02	51	3
F1805-06016	36-02	51	7	10030	12	25	4		94	115	104
08012	04-02-02	11	8		66-01	105	6	14000	13	27	101
61-01-04		69	13	F1825-06025	61-01-04	69	10		94	115	105
08016	01-01	3	9		61-01-05	71	16	18000	36-01-02	49	10
01-02		5	9	F2015-10035	61-01-04	69	18		94	115	106
05		13	5		61-01-05	71	20	F4300-02500	36-02	51	9
11-01		21	3	F2300-06000	36-02	51	13	F4440-06300	61-01-04	69	20
11-02		23	4		87	111	4		61-01-05	71	22
13		27	2	08000	30-01	41	13	F4656-06000	36-02	51	4
36-01-01		47	8		30-02	43	13	F5005-17001	46-01	59	311
36-01-02		49	8		61-01-04	69	25		46-02	61	311
39-01		53	3		61-01-05	71	27	MC880900	90	113	1
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46-02		61	301		36-01-02	49	5	ME016571	61-01-05	71	4
46-02		61	15	12000	20-01	33	5	ME910-12501	62	103	6
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08035	46-01	59	302	F2846-05000	07-01-01	15	8	MF140227	46-01	59	501
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MH037087	62	103	103	00665-0204833	45	101		61-03-02	83	10	
MM130066	90	113	2	04826-2120004-01	7	1003		09016-1033061-03-01	79	11	
MM316248	01-01	3	101	2180007-01-01	15	3		61-03-02	83	11	
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	46-02	61	11	2250001-01	3	202		4035061-03-02	83	11	
MM402901	61-01-05	71	13	01-02	5	202		5016061-03-01	79	11	
MM430614	61-01-04	69	9	2350007-01-01	15	201		61-03-02	83	11	
	61-01-05	71	15	07-01-02	17	201		09017-0007061-03-01	79	11	
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MM432045	61-01-05	71	1	05605-0141007-01-01	15	11		61-03-02	83	12	
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MM433787	04-02-01	9	5	05910-2004546-01	59	17		1086061-03-02	83	11	
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MS660163	61-01-05	71	502	94	115	116		61-03-02	83	11	
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	07-01-02	17	16	94	115	118		61-03-02	83	11	
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M135X-0158166-02		107	106	11-02	23	8		61-03-02	83	12	
M191X-6768566-02		107	107	61-01-04	69	16		4006061-03-01	79	11	
M230X-0067166-02		107	108	61-01-05	71	18		61-03-02	83	12	
M357X-6618566-02		107	104	94	115	119		4007061-03-02	83	12	
9187466-02		107	103	07711-0802530-02	43	9		4008061-03-02	83	12	
M372X-0287166-02		107	112	0803030-01	41	12		4009061-03-02	83	12	
M385X-0377166-02		107	111	09001-8008161-01-01	63	103		4010061-03-02	83	12	
M391X-0437166-02		107	120	61-01-03	67	103		4011061-03-01	79	11	
M414X-0487566-02		107	113	8024161-01-02	65	103		61-03-02	83	12	
M578X-2917166-02		107	115	09013-1033061-03-01	79	103		4014061-03-01	79	11	
M605X-9657166-02		107	110	1071061-03-02	83	103		61-03-02	83	12	
M641X-B157166-02		107	101	3026161-03-02	85	139		4015061-03-01	79	11	
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M649X-2047166-02		107	119	7010061-03-01	79	105		4017061-03-02	83	12	
M690X-0057266-02		107	102	61-03-02	83	105		4029061-03-01	79	11	
M800X-7377166-02		107	118	09014-0066061-03-01	79	106		61-03-02	83	11	
M863X-0867366-02		107	109	0189061-03-02	83	106		4034061-03-02	79	11	
M901X-0037166-02		107	122	09015-0383061-03-01	79	107		4035061-03-02	79	11	
M982X-3887166-02		107	105	0580061-03-02	83	107		4036061-03-02	83	12	
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09020-10300	61-03-01	79	119	10090	61-03-01	81	132	09091-00650	61-04-02	91	133
10351	61-03-02	85	134		61-03-02	85	135	10010	61-04-02	91	134
60150	61-03-02	85	136	10100	61-03-01	81	132	80011	61-04-02	91	135
60160	61-03-01	79	120		61-03-02	85	135	90010	61-04-02	91	136
09021-20020	61-03-01	79	121	10110	61-03-01	81	132	09092-10010	61-04-02	91	137
	61-03-02	83	120		61-03-02	85	135	30011	61-04-02	91	140
50060	61-03-01	79	122	10120	61-03-01	81	132	30060	61-04-01	87	118
	61-03-02	83	121		61-03-02	85	135		61-04-02	91	118
09022-20060	61-03-02	85	145	10130	61-03-01	81	132		61-04-03	95	118
20070	61-03-01	79	123		61-03-02	85	135	09093-00041	61-04-01	87	111
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	61-03-02	85	141	10150	61-03-01	81	132	09094-40310	61-04-01	87	109
09024-00010	61-03-01	81	137		61-03-02	85	135		61-04-02	91	109
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	61-04-01	87	145		61-03-02	85	135	09097-00170	61-04-01	87	119
	61-04-02	93	153	09056-00150	61-04-03	95	117		61-04-02	91	119
	61-04-03	95	145	00160	61-04-01	87	117		61-04-03	95	119
20010	61-03-01	81	139	00170	61-04-02	91	117	09098-90010	61-04-01	87	112
30030	61-03-01	79	128	09081-00660	61-04-01	87	101		61-04-02	91	112
	61-03-01	81	140		61-04-02	91	101		61-04-03	95	112
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	61-04-03	97	146		61-05-02	101	101	51770	61-02-01	73	100
10151	61-04-01	87	107	10011	61-05-01	99	103	51780	61-02-01	73	100
	61-04-02	91	107		61-05-02	101	103	51790	61-02-01	73	100
	61-04-03	95	107	40010	61-05-01	99	104	51800	61-02-01	73	100
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	61-01-03	67	111	50010	61-05-01	99	105	51820	61-02-01	73	100
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	61-01-03	67	112	70010	61-05-01	99	106	51840	61-02-01	73	100
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	61-01-03	67	113	09213-00220	61-05-01	99	107	51860	61-02-01	73	100
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	61-04-03	97	157		61-05-02	101	102	51890	61-02-01	73	100
40161	61-04-01	89	156	09217-10011	61-05-01	99	119	51900	61-02-01	73	100
	61-04-02	93	164		61-05-02	101	119	51910	61-02-01	73	100
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	61-04-03	97	154		61-05-02	101	111	51950	61-02-01	73	100
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	61-04-02	93	163		61-05-02	101	112	51970	61-02-01	73	100
	61-04-03	97	155	90050	61-05-01	99	113	51980	61-02-01	73	100
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	61-04-03	97	158		61-05-02	101	115	52010	61-02-01	73	100
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0110039-01		53	1	0740061-02-02		77	101	34330-0430030-01		41	7
0120139-01		53	2	0790061-02-02		77	109	30-02		43	5
39-02		55	1	32A62-3020062		103	2	94		115	14
94		115	134	32A65-0162061-01-02		65	1	34332-2130030-02		43	11
0140139-02		55	2	0172061-01-01		63	1	34333-0140036-02		51	8
94		115	135	0463061-01-03		67	1	34336-0410036-02		51	6
32A40-0010040		57	3	32A66-0310066-01		105	1	94		115	14
0110040		57	4	0410166-01		105	3	34340-0070040		57	2
32A42-0510013		27	3	0701166-01		105	2	94		115	14
32A43-0010004-02-02		11	6	1010166-02		107	1	34404-0290104-01		7	7
0090004-02-02		11	5	32A68-0040168		109	1	34407-1109012		2	5
32A45-0030046-01		59	307	0110366-01		105	4	1260136-02		51	10
46-02		61	307	1160066-01		105	7	34417-0201217-01		29	4

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0202217-01		29	5	61-04-03		95	143	61-04-02		93	148
17-02		31	5	0616161-01-01		63	109	61-04-03		95	140
0203217-01		29	6	61-01-02		65	109	7119061-04-01		87	137
17-02		31	6	61-01-03		67	109	61-04-02		93	145
34446-0530046-01		59	6	0620161-03-02		83	119	61-04-03		95	137
46-02		61	6	91518-0822161-01-01		63	108	7136061-03-01		81	135
94		115	145	61-01-02		65	108	7175061-04-01		87	134
34448-4420046-01		59	13	61-01-03		67	108	61-04-02		93	142
34461-0905061-01-01		63	107	94805-3005161-04-01		87	116	61-04-03		95	134
61-01-02		65	107	61-04-02		91	116	7176061-04-01		87	133
61-05-01		99	1	61-04-03		95	116	61-04-02		91	141
0906061-01-03		67	107	94901-3388061-04-02		91	139	61-04-03		95	133
61-05-02		101	1	3402061-04-02		91	139	7270161-04-01		87	142
34462-0001162		103	1	3403061-04-02		91	139	61-04-02		93	150
0020162		103	101	3404061-04-02		91	139	61-04-03		95	142
0030062		103	102	3406061-04-01		87	126	94905-0245061-01-01		63	104
34661-0200061-02-01		75	108	61-04-02		91	126	61-01-02		65	104
36730-0110130-01		41	6	61-04-03		95	126	0339061-04-01		89	162
2130330-02		43	4	3407061-04-01		87	126	61-04-02		93	170
36761-0110061-01-05		71	12	61-04-02		91	126	61-04-03		97	162
49160-2310033		45	105	61-04-03		95	126	0357061-01-03		67	104
49177-2210033		45	108	3408061-04-01		87	126	94906-2127061-04-01		89	148
49183-1400033		45	106	61-04-02		91	126	61-04-02		93	156
49189-0241033		45	1	61-04-03		95	126	61-04-03		97	148
0811033		45	104	3409061-04-01		87	126	94907-1009061-04-01		87	130
1150033		45	107	61-04-02		91	126	61-04-02		91	130
5320133		45	103	61-04-03		95	126	61-04-03		95	130
51703-0100004-02-02		11	7	3410061-04-01		87	126	2094061-05-01		99	114
85265-0007861-05-01		99	120	61-04-02		91	126	61-05-02		101	114
61-05-02		101	120	61-04-03		95	126	2150061-01-02		65	115
0007961-05-01		99	109	3788061-04-02		91	139	61-01-03		67	115
61-05-02		101	109	5050061-01-01		63	106	94908-2316061-02-02		77	108
90160-0605161-03-01		81	133	61-01-02		65	106	94910-0001061-04-01		87	120
61-03-02		85	137	61-04-01		87	123	61-04-02		91	120
90190-0805161-04-01		87	115	61-04-02		91	123	61-04-03		95	120
61-04-02		91	115	61-04-03		95	123	1007161-03-02		85	140
61-04-03		95	115	5059061-01-03		67	106	1012061-03-01		81	136
90258-0600161-03-01		81	134	8102061-01-02		65	116	61-03-02		83	118
61-03-02		85	138	61-01-03		67	116	94913-0003061-04-01		89	159
90400-0210161-04-01		87	114	61-04-01		89	163	61-04-02		93	167
61-04-02		91	114	61-04-02		93	171	61-04-03		97	159
61-04-03		95	114	61-04-03		97	163	0005061-04-01		87	121
90801-1012061-04-01		89	164	8124061-05-01		99	116	61-04-02		91	121
61-04-02		93	172	61-05-02		101	116	61-04-03		95	121
61-04-03		97	164	8155061-04-01		89	147	0019061-01-01		63	105
2016061-04-01		87	129	61-04-02		93	155	61-01-02		65	105
61-04-02		91	129	61-04-03		97	147	0030061-01-03		67	105
61-04-03		95	129	94904-3001061-03-01		79	102	0032061-01-03		67	105
91418-0614161-04-01		87	143	61-03-02		83	102	0034061-01-03		67	105

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94914-00130	61-04-01	89	150								
	61-04-02	93	158								
	61-04-03	97	150								
00380	61-03-01	81	142								
	61-03-02	85	144								
02141	61-01-02	65	114								
	61-01-03	67	114								
02570	61-03-01	79	125								
	61-03-02	83	124								
94915-00210	61-04-01	87	135								
	61-04-02	93	143								
	61-04-03	95	135								
94918-00060	61-03-01	81	143								
	61-03-02	85	132								
00310	61-03-01	81	144								
	61-03-02	85	143								

TABLE OF BOLT,W/WASHER

BOLT,W/WASHER	BOLT/WASHER	BOLT,W/WASHER	BOLT/WASHER	BOLT,W/WASHER	BOLT/WASHER
F1805-06010	F1035-06010 F2515-06000	F1805-06035	F1035-06035 F2515-06000	F1805-08018	F1035-08018 F2515-08000
F1805-06012	F1035-06012 F2515-06000	F1805-06040	F1035-06040 F2515-06000	F1805-08020	F1035-08020 F2515-08000
F1805-06014	F1035-06014 F2515-06000	F1805-06045	F1035-06045 F2515-06000	F1805-08022	F1035-08022 F2515-08000
F1805-06016	F1035-06016 F2515-06000	F1805-06055	F1035-06055 F2515-06000	F1805-08025	F1035-08025 F2515-08000
F1805-06018	F1035-06018 F2515-06000	F1805-06060	F1035-06060 F2515-06000	F1805-08030	F1035-08030 F2515-08000
F1805-06020	F1035-06020 F2515-06000	F1805-08012	F1035-08012 F2515-08000	F1805-08035	F1035-08035 F2515-08000
F1805-06025	F1035-06025 F2515-06000	F1805-08014	F1035-08014 F2515-08000	F1805-08040	F1035-08040 F2515-08000
F1805-06030	F1035-06030 F2515-06000	F1805-08016	F1035-08016 F2515-08000	F1805-08045	F1035-08045 F2515-08000

TABLE OF BOLT,W/WASHER

BOLT,W/WASHER	BOLT/WASHER	BOLT,W/WASHER	BOLT/WASHER	BOLT,W/WASHER	BOLT/WASHER
F1805-08050	F1035-08050 F2515-08000	F1805-10018	F1035-10018 F2515-10000	F1805-10050	F1035-10050 F2515-10000
F1805-08055	F1035-08055 F2515-08000	F1805-10020	F1035-10020 F2515-10000	F1805-10055	F1035-10055 F2515-10000
F1805-08060	F1035-08060 F2515-08000	F1805-10022	F1035-10022 F2515-10000	F1805-10060	F1035-10060 F2515-10000
F1805-08065	F1035-08065 F2515-08000	F1805-10025	F1035-10025 F2515-10000	F1805-10065	F1035-10065 F2515-10000
F1805-08070	F1035-08070 F2515-08000	F1805-10030	F1035-10030 F2515-10000	F1805-10070	F1035-10070 F2515-10000
F1805-08075	F1035-08075 F2515-08000	F1805-10035	F1035-10035 F2515-10000	F1805-10085	F1035-10085 F2515-10000
F1805-10014	F1035-10014 F2515-10000	F1805-10040	F1035-10040 F2515-10000	F1805-12016	F1035-12016 F2515-12000
F1805-10016	F1035-10016 F2515-10000	F1805-10045	F1035-10045 F2515-10000	F1805-12020	F1035-12020 F2515-12000

TABLE OF BOLT,W/WASHER

BOLT,W/WASHER	BOLT/WASHER	BOLT,W/WASHER	BOLT/WASHER	BOLT,W/WASHER	BOLT/WASHER
F1805-12025	F1035-12025 F2515-12000	F1805-12065	F1035-12065 F2515-12000	F1825-06010	F1035-06010 F2515-06000 F2500-06000
F1805-12030	F1035-12030 F2515-12000	F1805-12085	F1035-12085 F2515-12000	F1825-06012	F1035-06012 F2515-06000 F2500-06000
F1805-12035	F1035-12035 F2515-12000	F1805-14035	F1035-14035 F2515-14000	F1825-06014	F1035-06014 F2515-06000 F2500-06000
F1805-12040	F1035-12040 F2515-12000	F1805-14045	F1035-14045 F2515-14000	F1825-06016	F1035-06016 F2515-06000 F2500-06000
F1805-12045	F1035-12045 F2515-12000			F1825-06020	F1035-06020 F2515-06000 F2500-06000
F1805-12050	F1035-12050 F2515-12000			F1825-06025	F1035-06025 F2515-06000 F2500-06000
F1805-12055	F1035-12055 F2515-12000				
F1805-12060	F1035-12060 F2515-12000				

TABLE OF BOLT,W/WASHER

BOLT,W/WASHER	BOLT/WASHER	BOLT,W/WASHER	BOLT/WASHER	BOLT,W/WASHER	BOLT/WASHER
F1825-06030	F1035-06030 F2515-06000 F2500-06000	F1825-08025	F1035-08025 F2515-08000 F2500-08000	F1825-08050	F1035-08050 F2515-08000 F2500-08000
F1825-06035	F1035-06035 F2515-06000 F2500-06000	F1825-08030	F1035-08030 F2515-08000 F2500-08000	F1825-08055	F1035-08055 F2515-08000 F2500-08000
F1825-06055	F1035-06055 F2515-06000 F2500-06000	F1825-08035	F1035-08035 F2515-08000 F2500-08000	F1825-08085	F1035-08085 F2515-08000 F2500-08000
F1825-08012	F1035-08012 F2515-08000 F2500-08000	F1825-08038	F1035-08038 F2515-08000 F2500-08000	F1825-10014	F1035-10014 F2515-10000 F2500-10000
F1825-08016	F1035-08016 F2515-08000 F2500-08000	F1825-08040	F1035-08040 F2515-08000 F2500-08000	F1825-10016	F1035-10016 F2515-10000 F2500-10000
F1825-08020	F1035-08020 F2515-08000 F2500-08000	F1825-08045	F1035-08045 F2515-08000 F2500-08000	F1825-10020	F1035-10020 F2515-10000 F2500-10000

TABLE OF BOLT,W/WASHER

BOLT,W/WASHER	BOLT/WASHER	BOLT,W/WASHER	BOLT/WASHER	BOLT,W/WASHER	BOLT/WASHER
F1825-10025	F1035-10025	F1825-12025	F1035-12025	F2005-10016	F1155-10016
	F2515-10000		F2515-12000		F2515-10000
	F2500-10000		F2500-12000		
F1825-10030	F1035-10030	F1825-12030	F1035-12030	F2005-10020	F1155-10020
	F2515-10000		F2515-12000		F2515-10000
	F2500-10000		F2500-12000		
F1825-10035	F1035-10035	F1825-12040	F1035-12040	F2005-10025	F1155-10025
	F2515-10000		F2515-12000		F2515-10000
	F2500-10000		F2500-12000		
F1825-10040	F1035-10040			F2005-10030	F1155-10030
	F2515-10000				F2515-10000
	F2500-10000				
F1825-10080	F1035-10080			F2005-10035	F1155-10035
	F2515-10000				F2515-10000
	F2500-10000				
F1825-12020	F1035-12020			F2005-10040	F1155-10040
	F2515-12000				F2515-10000
	F2500-12000				
				F2005-10045	F1155-10045
					F2515-10000
				F2005-10050	F1155-10050
					F2515-10000

TABLE OF BOLT,W/WASHER

BOLT,W/WASHER	BOLT/WASHER	BOLT,W/WASHER	BOLT/WASHER	BOLT,W/WASHER	BOLT/WASHER
F2005-10055	F1155-10055 F2515-10000	F2005-12040	F1155-12040 F2515-12000	F2015-10020	F1155-10020 F2515-10000 F2500-10000
F2005-10060	F1155-10060 F2515-10000	F2005-12045	F1155-12045 F2515-12000	F2015-10025	F1155-10025 F2515-10000 F2500-10000
F2005-10065	F1155-10065 F2515-10000	F2005-12050	F1155-12050 F2515-12000	F2015-10030	F1155-10030 F2515-10000 F2500-10000
F2005-10070	F1155-10070 F2515-10000	F2005-12055	F1155-12055 F2515-12000	F2015-10035	F1155-10035 F2515-10000 F2500-10000
F2005-12020	F1155-12020 F2515-12000	F2005-12065	F1155-12065 F2515-12000	F2015-10040	F1155-10040 F2515-10000 F2500-10000
F2005-12025	F1155-12025 F2515-12000			F2015-10050	F1155-10050 F2515-10000 F2500-10000
F2005-12030	F1155-12030 F2515-12000				
F2005-12035	F1155-12035 F2515-12000				

TABLE OF BOLT,W/WASHER

BOLT,W/WASHER	BOLT/WASHER	BOLT,W/WASHER	BOLT/WASHER	BOLT,W/WASHER	BOLT/WASHER
F2015-10055	F1155-10055 F2515-10000 F2500-10000				
F2015-10060	F1155-10060 F2515-10000 F2500-10000				
F2015-12025	F1155-12025 F2515-12000 F2500-12000				
F2015-12030	F1155-12030 F2515-12000 F2500-12000				

