

Engine No. 10545-UP

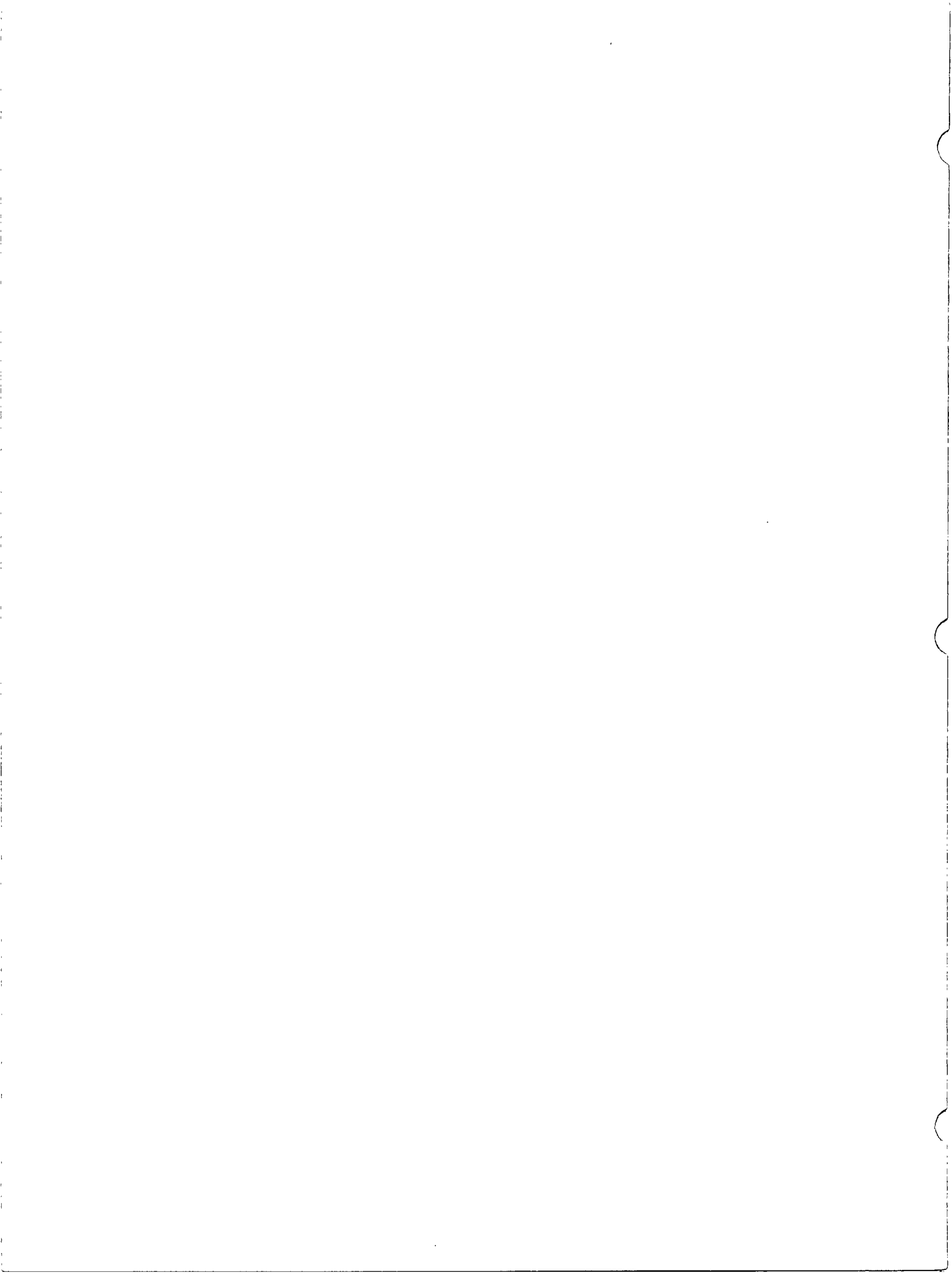
Parts Catalogue

見本誌

**MITSUBISHI  
DIESEL ENGINE  
S16R-PTAA2  
2000KW**

Oct.'97

 **MITSUBISHI**  
HEAVY INDUSTRIES, LTD.



## **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 all service parts for Mitsubishi Diesel Engine S16R diesel engines.

S16R-PTAA2 : For industrial use, Turbocharged engine intercooler with air cooling

2. This Parts Catalogue applies to the engines whose serial numbers are 10545 and up.
3. 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 case where the ordered parts happen to be out of stock, substitute parts (interchangeable with those ordered) will be supplied.

4. 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.

5. 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 the page E1) at the end of the parts catalogue.

6. For the numerical index, refer to the page beginning with C1 at the end of this parts catalogue.
7. The parts and part numbers are subject to change without prior notice.

# SAMPLE OF PARTS CATALOGUE

GROUP NUMBER

GROUP NAME

07-01 CRANKCASE ASSY

Model type

Not applicable to the model of this column

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

REF. -NO.	PART NO.	R S P Q	E N G G	PART NAME & DESCRIPTION	MODEL&QTY						APPLICABLE SERIAL NO.		M V R D		
					MP	MP	MP				FROM@-	-@UPTO			
					T	TA	TA								
1	32507-70010			CRANKCASE ASSY											
1 01	F2846-14000			PIN,DOWEL	4	.	.								A
1 02	32507-01400			WASHER	14	14	14								A
1 03	*			CAP,MAIN BEARING	6	6	6								
1 04	*			CAP,MAIN BEARING	1	1	1								
1 05	*			CRANKCASE	1	1	1								
2	32507-02500		C	HANGER	1	1	1								
	32507-02700		N 1	HANGER	1	1	1				11286-		-11285		V
3	32507-04100		Q	SHIM	2	.	.						@11294		
	32507-04100		1	SHIM	3	3	3				11295@				
4	F1805-10025			BOLT,W/WASHER	2	2	2								A

Part not to be supplied See(3)

See(2)Reference number.

See(4)Interchangeability codes.

See(8)-(a)Description codes

See(8)-(c)Specification codes

See(8)-(b)Description

See(6)Change codes.

See(5)Sequence-of-change numbers.

Quantity per unit

Applicable from serial No. indicated.

Applicable from 11295 (Scheduled)if suffixed with @ and sometimes differs from real serial No.

Applicable up to serial No. indicated.

High-demand part. See(11)

Part newly changed or added.See(12)

Applicable up to 11294 (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 cotalogues.  
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)  
01 CYLINDER HEAD

REF. NO.	PART NO.	R/S P/Q	C N G	PART NAME & DESCRIPTION	MODEL & QTY			APPLICABLE SERIAL NO.		M/R D
					PTAA2			FROM	UPTO	
								①-	②	
1	37501-60050			HEAD ASSY, CYLINDER	16					
2	*			HEAD SUB ASSY, CYL	16					
201	04826-22500			CAP, SEALING	16					
202	04826-22800			CAP, SEALING	112					
203	04827-71000			PLUG, TAPERED	16					A

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**

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

<b>PART NO.</b>	<b>Code (R/P)</b>	<b>DESCRIPTION</b>
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 up to 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 hide pages of this general information chapter.

**NOTE:** The locational terms **LH** (left hand) and **RH** (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)

**KIT:** Part supplied as a kit

**STD:** Standard part

**OPT:** Optional part

**AR :** Part used, as required or by selection or in adjusted quantity for necessity

**SFN:** Semi-finished part

**(b) The Description codes in above paragraph (a) are followed by supplementary 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 :L=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 specifications.

(Examples) **A10:**For diesel fuel

**B10:**With industrial electric starter

(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		SYMBOL	DESCRIPTION	
ACCEL	ACCELERATOR		ELEC	ELECTRIC	
ADJ	ADJUSTING (ADJUSTABLE)		ENG	ENGINE	
AIR-CON	AIR-CONDITIONER		EQUIP	EQUIPMENT	
ASSY	ASSEMBLY		EXH	EXHAUST	
ATT	ATTACHMENT		E/TNK	EXPANSION TANK	
AUTO	AUTOMATIC		FITT	FITTING	
AUX	AUXILIARY		FLEX	FLEXIBLE	
AR	AS REQUIRED		FR	FRONT	
B/H	BACKHOE		GSKT	GASKET	
BATT	BATTERY		GEN	GENERATOR	
BRG	BEARING		GOV	GOVERNOR	
B/PMP	BILGE PUMP		G/N	GROUP NUMBER	
BRKT	BRACKET		H/EXCH	HEAT EXCHANGER	
BUSH	BUSHING		HEX	HEXAGON	
CARB	CARBURETOR		HYD	HYDRAULIC	
C/L	CENTERLINE		H=	HEIGHT	
COMPR	COMPRESSOR		IND	INDUSTRIAL	
CON-ROD	CONNECTING-ROD		INJ	INJECTION	
C/MBR	CROSS-MEMBER		INSTAL	INSTALLATION	
CYL	CYLINDER		INST	INSTRUMENT	
DIA	DIAMETER		INTLK	INTERLOCK	
DIFF	DIFFERENTIAL		JUNC	JUNCTION	
DISTR	DISTRIBUTOR		KD	KNOCKDOWN	
DR	DRIVE		L.H	LEFT HAND	
D=	OUT DIAMETER		LUB	LUBRICATION	
			L=	LENGTH	

TABLE OF SYMBOLS & ABBREVIATIONS

SYMBOL	DESCRIPTION		SYMBOL	DESCRIPTION	
MANF	MANIFOLD		STD	STANDARD	
MAX	MAXIMUM		SUPT	SUPPORT	
M.L.H	MAXIMUM LIFTING HEIGHT		SYM	SYMBOL	
MIN	MINIMUM		SYNCH	SYNCHRONIZER	
MTR	MOTOR		SYS	SYSTEM	
MTG	MOUNTING		TEMP	TEMPERATURE	
NO.	NUMBER		TERM	TERMINAL	
OPT	OPTION		T/CONV	TORQUE-CONVERTER	
O/D	OVER DRIVE		T/F	TRANSFER	
O.S	OVERSIZE		T/M	TRANSMISSION	
PTO	POWER TAKE-OFF		T/HSG	TURBINE-HOUSING	
P/S	POWER STEERING		T/C	TURBOCHARGER	
PRESS	PRESSURE		T=	THICKNESS	
P/N	PART NUMBER		U/BODY	UNDERBODY	
QTY	QUANTITY		U.S	UNDERSIZE	
			UNIV	UNIVERSAL	
RAD	RADIATOR		VAC	VACUUM	
RE	REAR		VENT	VENTILATOR	
REG	REGULATOR		W/STRIP	WEATHERSTRIP	
REV	REVERSE		W/	WITH	
R.H	RIGHT HAND		W/O	WITHOUT	
REF.NO.	REFERENCE NUMBER		W/W	WOODWARD	
R/N	REFERENCE NUMBER		W/PMP	WATER PUMP	
S/PMP	SEA WATER PUMP		W=	WIDTH	
SECT	SECTION		Z=	NUMBER OF GEAR TEETH	
S/MBR	SIDEMEMBER				

### TABLE OF SYMBOLS & ABBREVIATIONS

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

TABLE OF MAKER'S NAME

ZXL	Zexel Corp.	MEC	Mitsubishi Electric Corp.
DEN or NDC	DENSO Corp. (OLD: Nippondenso Co., Ltd)	SEC	Sawafuji Electric Co., Ltd.
NCC	Niigata Converter Co., Ltd.		
NKC	Nikko Electric Industry Co., Ltd.		



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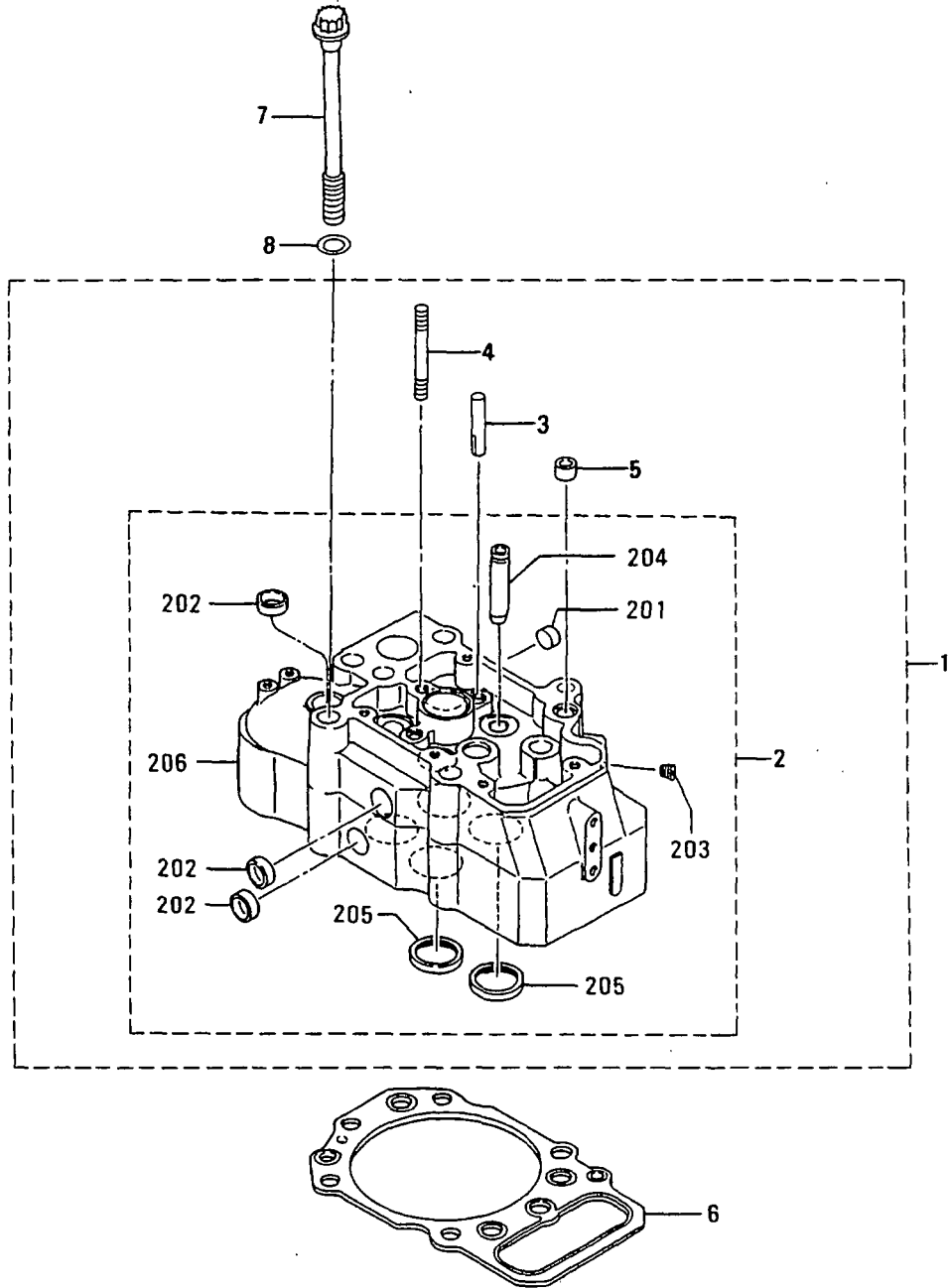
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# 01 CYLINDER HEAD

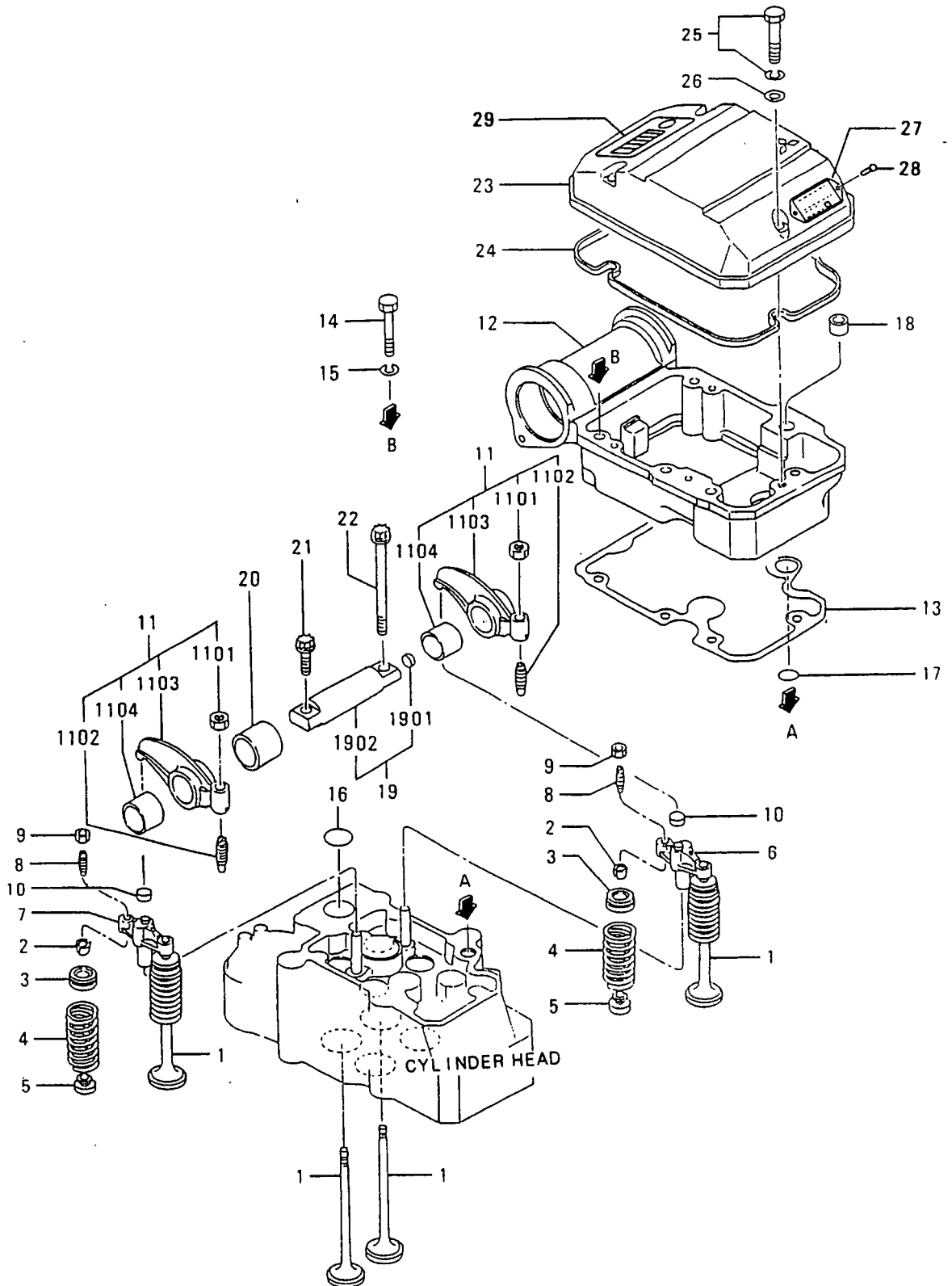


01 CYLINDER HEAD

REF. NO.	PART NO.	R/S P/EN P/G	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		M/V R/D
				PTAA2			FROM@-	-@UPTO	
1	37501-60050		HEAD ASSY,CYLINDER	16					
2	*		HEAD SUB ASSY,CYL	16					
201	04826-22500		CAP,SEALING	16					
202	04826-22800		CAP,SEALING	112					
203	04827-71000		PLUG,TAPERED	16					A
204	37101-10600		GUIDE,VALVE	64					
205	37501-01101		SEAT,VALVE	64					
206	*		HEAD,CYLINDER	16					
3	33501-13400		GUIDE	32					
4	37501-11400		STUD,NOZZLE GLAND	16					
5	37501-01501		PIN,DOWEL	16					A
6	37501-92100		GASKET,CYLINDER HEAD	16					A
7	37501-12501		BOLT,CYLINDER HEAD	96					
8	33707-11701		WASHER	96					A

# 04 VALVE MECHANISM & ROCKER COVER

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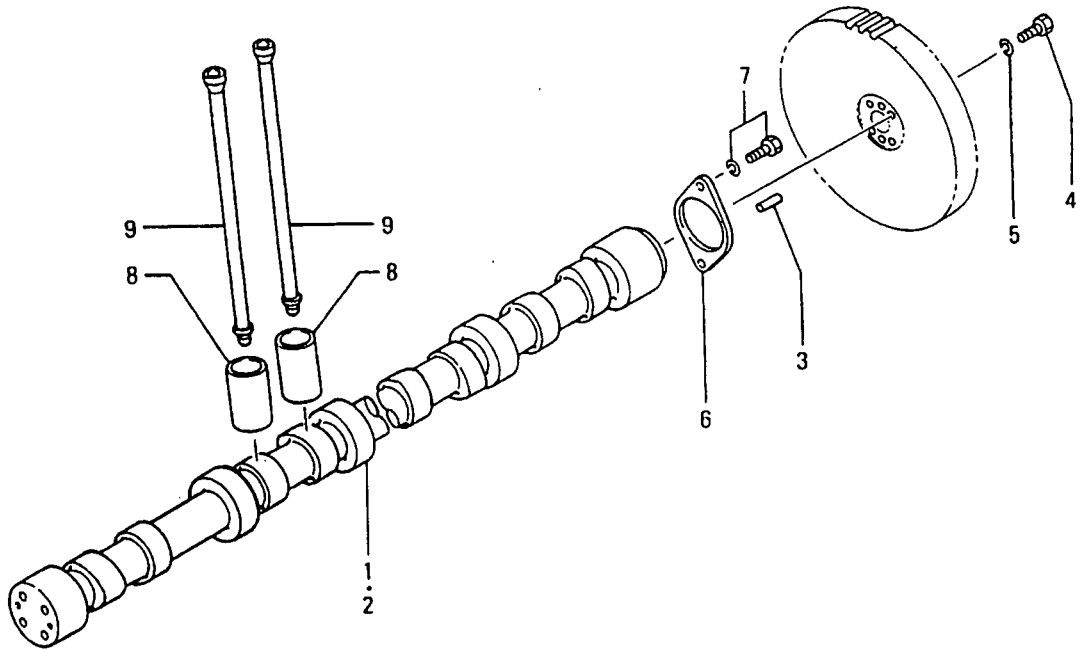
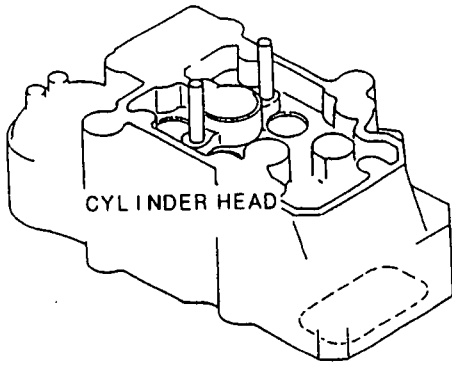
04 VALVE MECHANISM & ROCKER COVER

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REF. NO.	PART NO.	R/P Q/MS G/NC	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		M/V R/D
				PTAA2			FROM@-	-@UPTO	
1	37504-30200		VALVE	64					
2	32504-00400		COTTER	128					A
3	37504-00300		ROTATOR	64					
4	37504-10400		SPRING, VALVE	64					A
5	33504-10300		SEAL, VALVE STEM	64					A
6	37504-13100		BRIDGE, EXH	16					
7	37504-13200		BRIDGE, INLET	16					
8	37104-13300		SCREW, ADJ BRIDGE	32					
9	F2305-10000		NUT	32					A
10	30004-24302		CAP	32					
11	37504-12020		ROCKER ASSY.	32					
1101	F2305-12000		NUT	32					A
1102	37104-02800		SCREW, ADJUSTING	32					A
1103	*		ROCKER	32					
1104	37504-32500		BUSHING, ROCKER	32					
12	37504-31100		CASE, ROCKER	16					
13	37504-21200		PACKING, ROCKER CASE	16					A
14	F1035-12085		BOLT	80					A
	F2515-12000		WASHER, SPRING	80					A
16	F3153-04000		O-RING	16					A
17	05507-00200		O-RING	16					A
18	37501-01501		PIN, DOWEL	16					A
19	37504-34010		SHAFT ASSY, ROCKER	16					A
1901	04826-21000		CAP, SEALING	16					
1902	*		SHAFT, ROCKER	16					
20	37504-04201		SPACER	16					
21	MH000854		BOLT, FLANGE	16					
22	37504-14600		BOLT	16					
23	37504-16100		COVER, ROCKER	16					
24	37504-56200		O-RING, ROCKER COVER	16					
25	F1805-10065		BOLT, W/WASHER B/W	48					A
26	F2500-10000		WASHER, PLAIN	48					A
27	37893-01100		PLATE, CAUTION	1					
28	00665-04064		RIVET, SCREW	2					A
29	37493-00300		PLATE, CAUTION	1					

05 CAMSHAFT

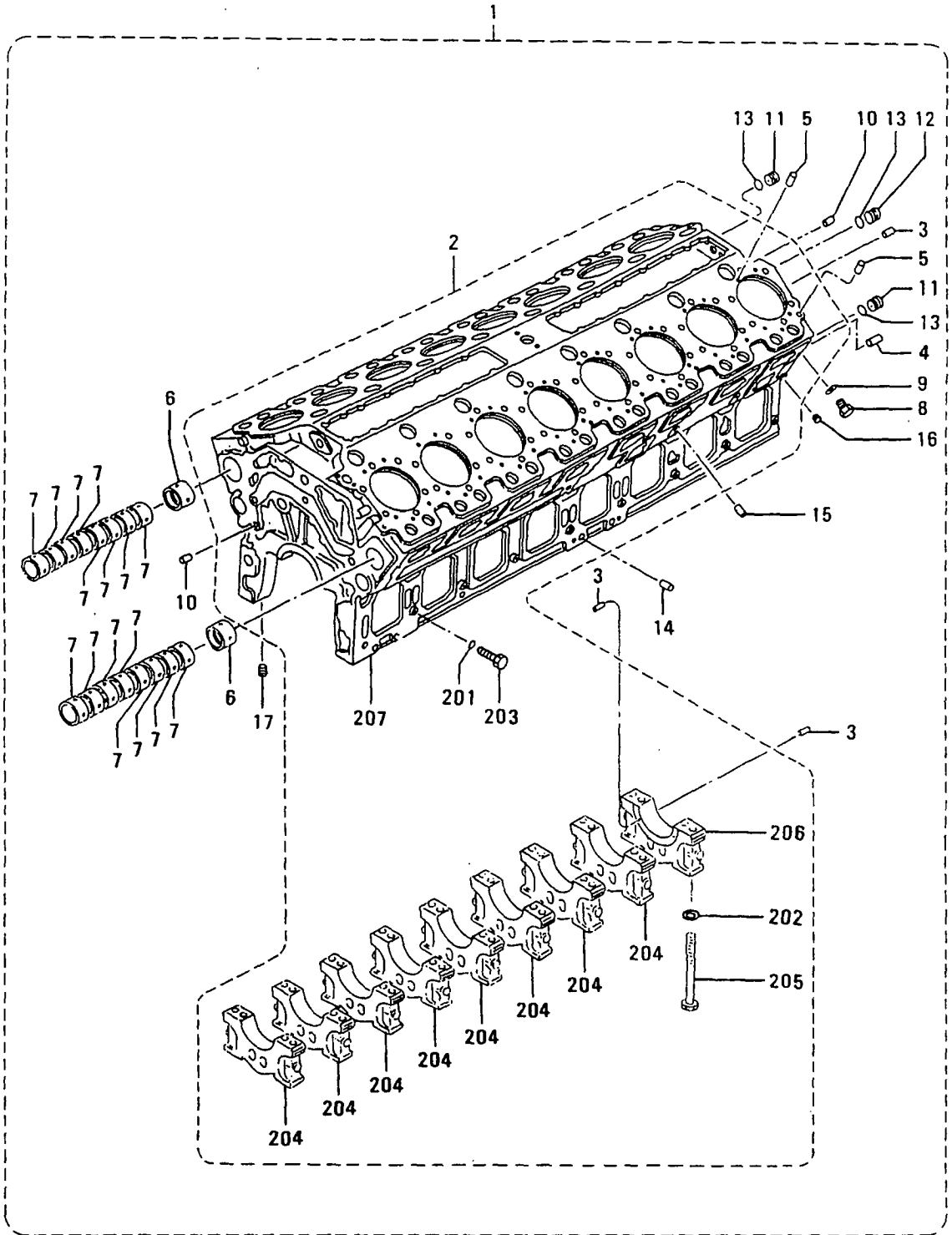
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07-01 CRANKCASE ASSY

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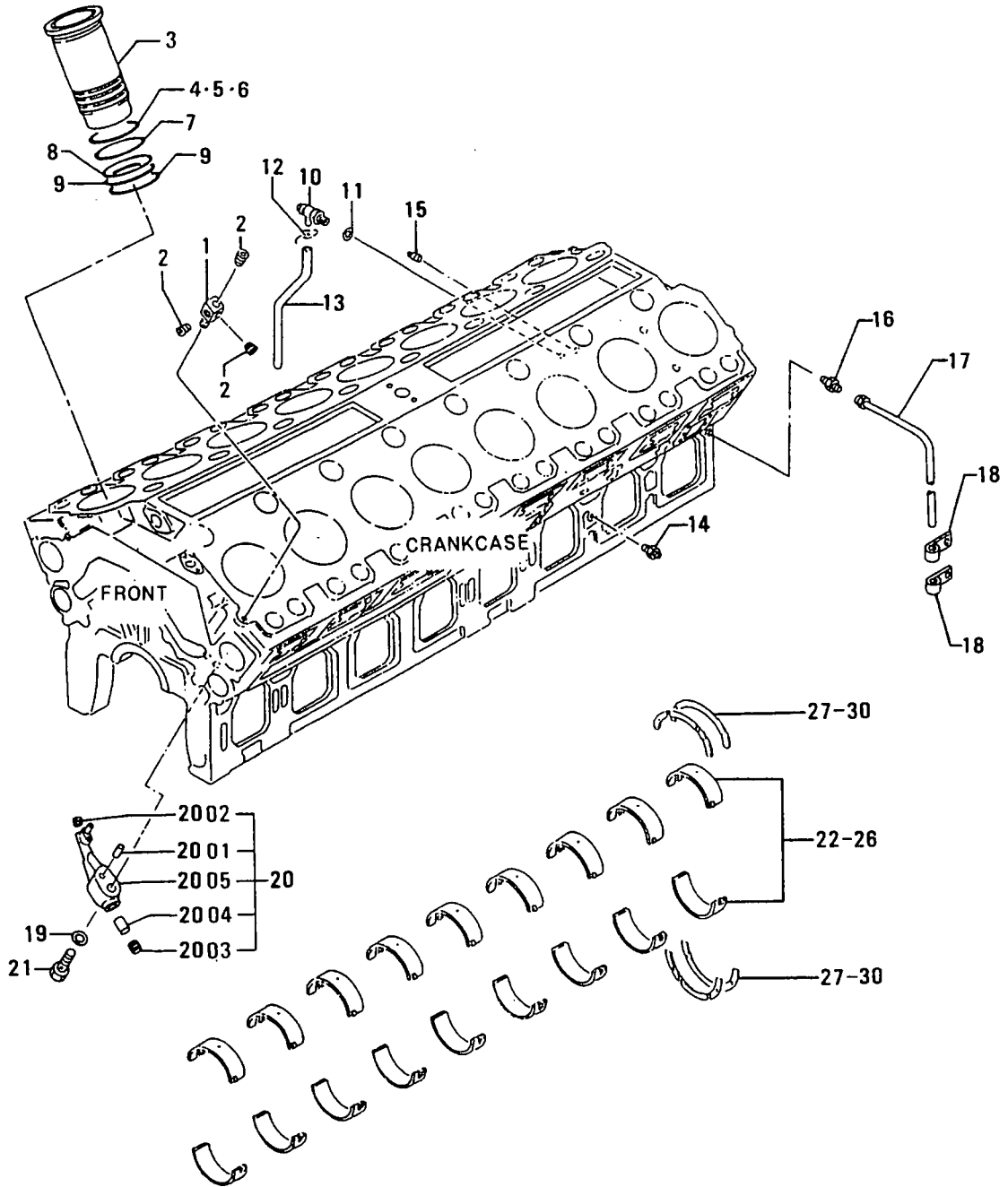


07-01 CRANKCASE ASSY

REF. NO.	PART NO.	R/S P/GEN G	PART NAME & DESCRIPTION	MODEL & QTY			APPLICABLE SERIAL NO.		M/R R/D
				PTAA2			FROM@-	-@UPTO	
1	37807-20010		CRANKCASE ASSY	1					
2	*		CRANKCASE SUB ASSY	1					
201	05507-00220		O-RING	18					A
202	32507-01400		WASHER	36					A
203	37707-01700		BOLT	18					A
204	*		CAP, METAL	8					
205	37707-11800		BOLT, METAL CAP	36					A
206	*		CAP, METAL, RE	1					
207	*		CRANKCASE	1					
3	37707-01900		PIN, DOWEL	6					A
4	F2846-08000		PIN, DOWEL	2					A
5	32307-02600		PIN, DOWEL	32					A
6	37507-03100		BUSHING, CAMSHAFT	2					
7	37507-03200		BUSHING, CAMSHAFT	16					
8	37507-03900		BOLT SET	18					A
9	05946-01201		WASHER, SEALING	18					A
10	32307-02500		PIN, DOWEL	4					A
11	37507-00701		PLATE, NOZZLE	2					
12	32607-10700		PLATE, PLUG	1					
13	05507-00340		O-RING	3					A
14	F2846-20000		PIN, DOWEL	8					A
15	F2846-12000		PIN, DOWEL	4					A
16	04827-71300		PLUG, TAPERED	2					A
17	04827-71700		PLUG, TAPERED	1					A

07-02 CRANKCASE (PART-1)

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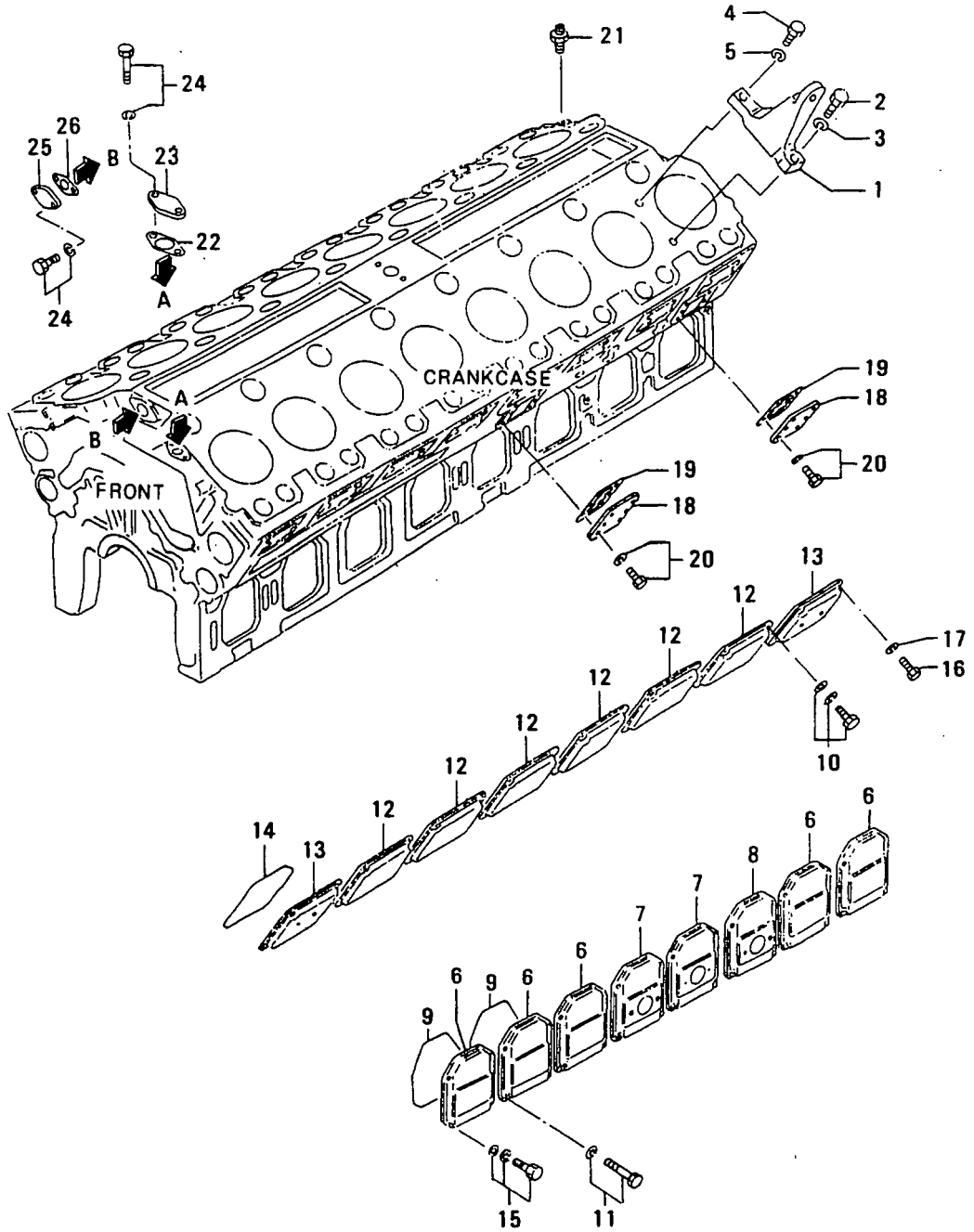
07-02 CRANKCASE (PART-1)

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REF. NO.	PART NO.	R/S P/ENG	PART NAME & DESCRIPTION	MODEL & QTY			APPLICABLE SERIAL NO.		M/V R/D
				PTAA2			FROM@-	@UPTO	
1	37736-19300		CONNECTOR		1				
2	F5006-10000		PLUG, TAPER		3				A
3	37507-32600		LINER, CYLINDER		16				
4	37507-02500		RING, LINER	T=1.00	AR				
5	37507-02510		RING, LINER	T=0.05	AR				
6	37507-02520		RING, LINER	T=0.15	AR				
7	37507-32400		O-RING, LINER		16				
8	37107-04200		O-RING, LINER		16				
9	37107-04300		O-RING, LINER		32				
10	33407-06100		COCK, DRAIN		2				
11	05946-02001		WASHER, SEALING		2				A
12	30007-05500		CLAMP		2				A
13	33010-23400		HOSE, DRAIN		2				
14	F4540-10000		CONNECTOR		2				
15	F5006-10000		PLUG, TAPERED		1				A
16	F4540-06300		CONNECTOR		1				
17	45954-30050		PIPE, OIL		1				
18	56104-01300		CLIP		2				A
19	36207-08900		SPRING, CONICAL DISK		16				A
20	37707-08041		NOZZLE ASSY		16				
2001	F2846-06000		PIN, DOWEL		16				A
2002	05950-04006		SCREW, SET		16				A
2003	05969-00300		SCREW, SET		16				
2004	31119-12201		VALVE, CHECK		16				
2005	*		BODY, NOZZLE		16				
21	37707-08500		BOLT, EYE		16				A
22	37709-10010		METAL SET, MAIN	STD	9				
23	37709-10020		METAL SET, MAIN	U.S 0.25	9				
24	37709-10030		METAL SET, MAIN	U.S 0.50	9				
25	37709-10040		METAL SET, MAIN	U.S 0.75	9				
26	37709-10050		METAL SET, MAIN	U.S 1.00	9				
27	37709-18100		PLATE, THRUST	STD	4				A
28	37709-18200		PLATE, THRUST	O.S 0.25	4				
29	37709-18300		PLATE, THRUST	O.S 0.50	4				
30	37709-18400		PLATE, THRUST	O.S 0.75	4				

07-03 CRANKCASE (PART-2)

- 12-

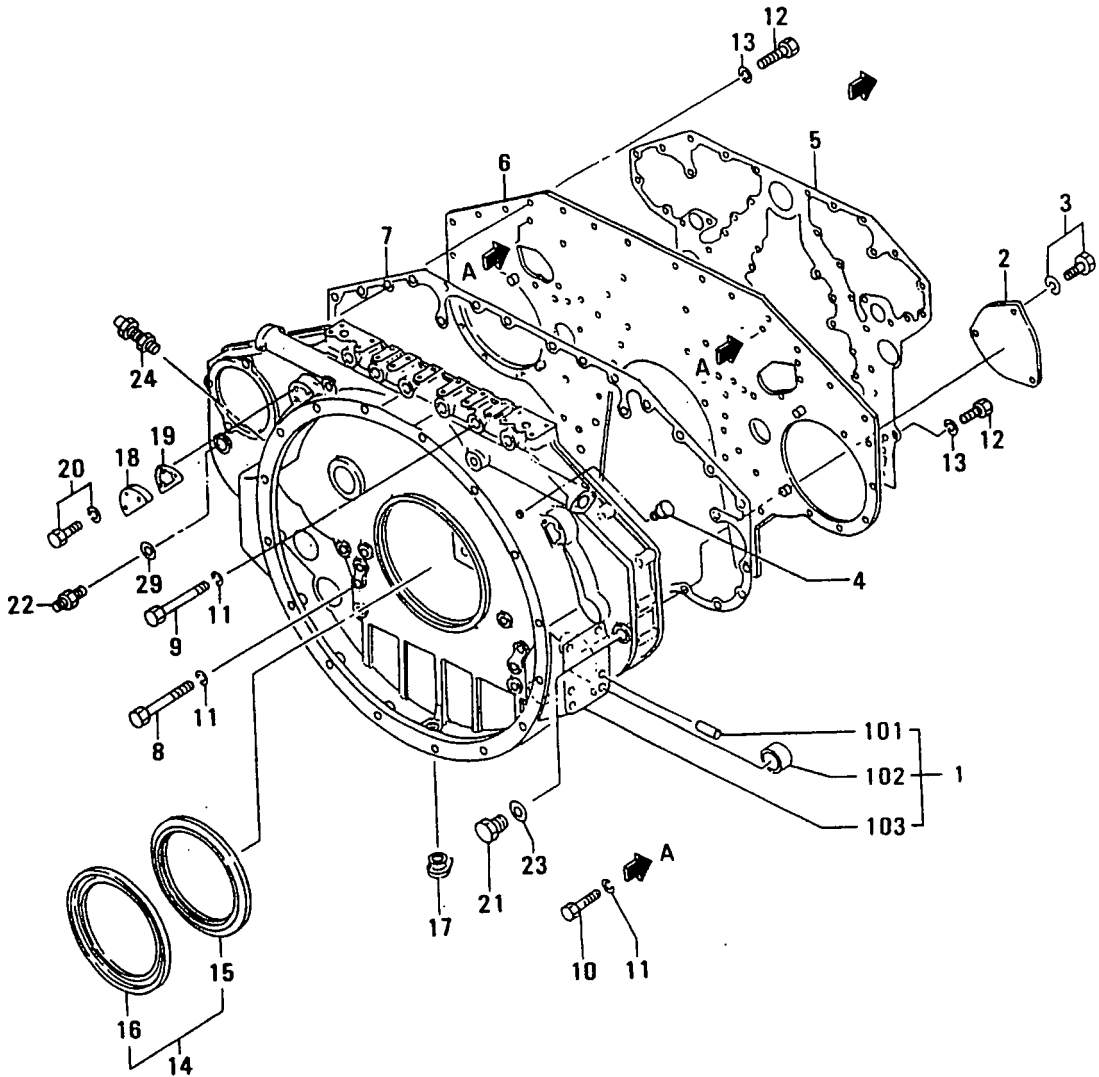


07-03 CRANKCASE (PART-2)

REF. NO.	PART NO.	R/S P/ENG	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		MVRD
				PTAA2			FROM@-	-@UPTO	
1	37707-20901		HANGER	4					
2	F1035-20075		BOLT	4					A
3	F2515-20000		WASHER, SPRING	4					A
4	F1035-16055		BOLT	4					A
5	F2515-16000		WASHER, SPRING	4					A
6	37507-17100		COVER, SIDE	13					
7	37507-17200		COVER, SIDE	2					
8	37807-07200		COVER, SIDE	1					
9	37507-37300		O-RING	16					A
10	F1825-12030		BOLT, W/WASHER B/W	58					A
11	F1805-12050		BOLT, W/WASHER B/W	6					A
12	37507-27401		COVER, CAM ROOM	13					
13	37507-27801		COVER, CAM ROOM	3					
14	37507-37600		O-RING	16					A
15	F1825-12030		BOLT, W/WASHER B/W	60					A
16	F1035-12065		BOLT	4					A
17	F2515-12000		WASHER, SPRING	4					A
18	37807-06100		COVER	4					
19	37807-06200		PACKING	4					A
20	F1805-12025		BOLT, W/WASHER B/W	24					A
21	F4540-12000		CONNECTOR	1					
22	33336-10500		PACKING	2					A
23	37113-10800		COVER	2					
24	F1805-12030		BOLT, W/WASHER B/W	8					A
25	37507-19100		COVER	2					
26	37555-00600		GASKET	2					A

11 TIMING GEAR CASE

- 14-



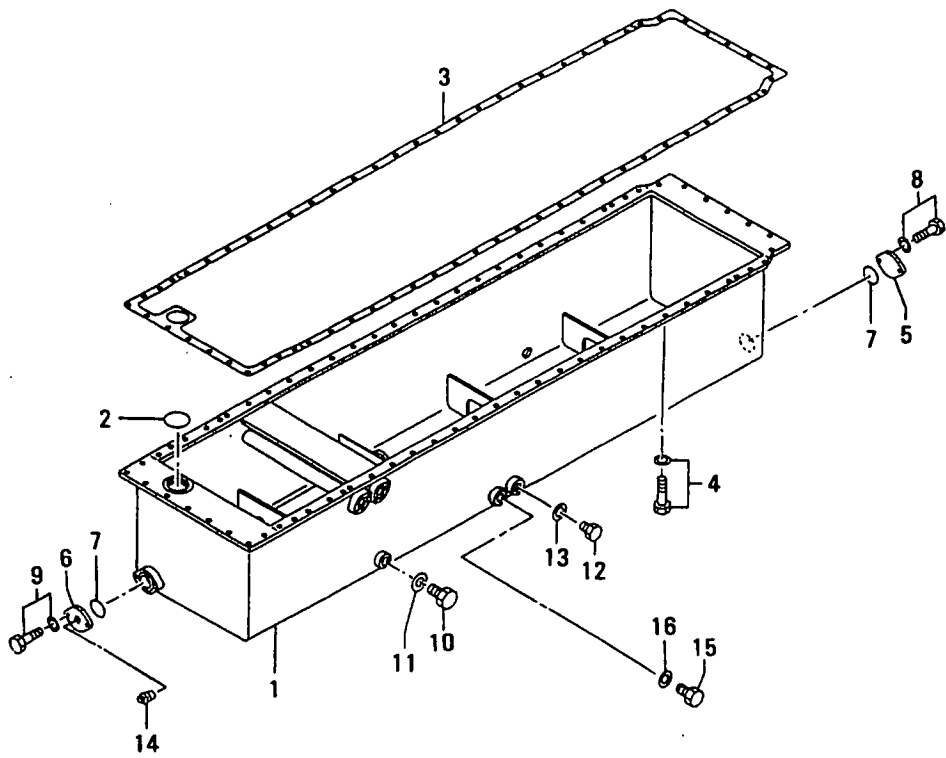
11 TIMING GEAR CASE

- 15-

REF. NO.	PART NO.	RISC /EN /PG	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		MVR /RD
				PTAA2			FROM@-	-@UPTO	
1	37711-25010		CASE ASSY, TIMING	1					
101	F2846-18000		PIN, DOWEL	4					A
102	05605-05030		BUSHING	1					
103	*		CASE, TIMING GEAR	1					
2	37766-03200		COVER	1					
3	F1805-12020		BOLT, W/WASHER B/W	3					A
4	37411-02300		PLUG	1					A
5	37711-10200		PACKING, REAR	1					
6	37711-25301		PLATE, REAR	1					
7	37711-25400		PACKING, REAR	1					
8	05978-16155		BOLT	10					A
9	05978-16115		BOLT	6					A
10	F1035-16030		BOLT	2					A
11	31201-71800		WASHER	18					A
12	F1035-12025		BOLT	34					A
13	F2515-12000		WASHER, SPRING	34					A
14	37711-04000		SEAL ASSY, OIL RE	1					
15	37411-04200		SLINGER	1					
16	37711-04300		SEAL, OIL	1					A
17	30912-01400		PLUG	1					A
18	37711-13100		COVER	2					
19	37711-03200		PACKING	2					A
20	F1805-12020		BOLT, W/WASHER B/W	6					A
21	F5000-20000		PLUG, DRAIN	1					A
22	F4530-12000		CONNECTOR	1					
23	05946-02001		WASHER, SEALING	2					A
24	37463-02400		PICK-UP	1					

13 OIL PAN

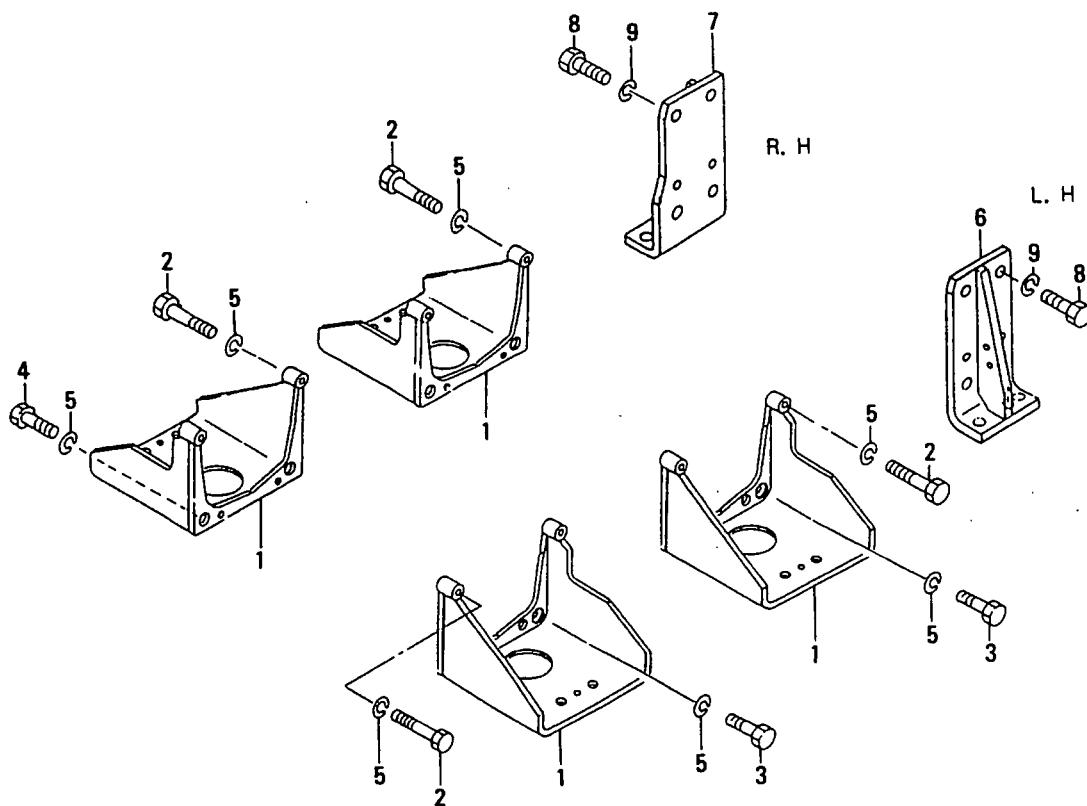
- 16-



REF. NO.	PART NO.	RSC PENG	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		MV RD
				PTAA2			FROM@-	-@UPTO	
1	37813-30101		PAN,OIL	1					
2	F3156-08000		O-RING	1					A
3	37813-00200		PACKING	1					A
4	F1805-12035		BOLT,W/WASHER B/W	66					A
5	33546-06900		COVER	1					
6	45735-51100		FLANGE	1					
7	F3156-06000		O-RING	2					A
8	F1805-12025		BOLT,W/WASHER B/W	2					A
9	F1805-12030		BOLT,W/WASHER B/W	2					A
10	F5000-36000		PLUG,DRAIN	2					A
11	05946-03601		WASHER, SEALING	2					A
12	F5000-20000		PLUG,DRAIN	1					A
13	05946-02001		WASHER, SEALING	1					A
14	F5006-26000		PLUG, TAPERED	1					A
15	F5000-16000		PLUG,DRAIN	1					A
16	05946-01601		WASHER, SEALING	1					A

14 ENGINE MOUNTING

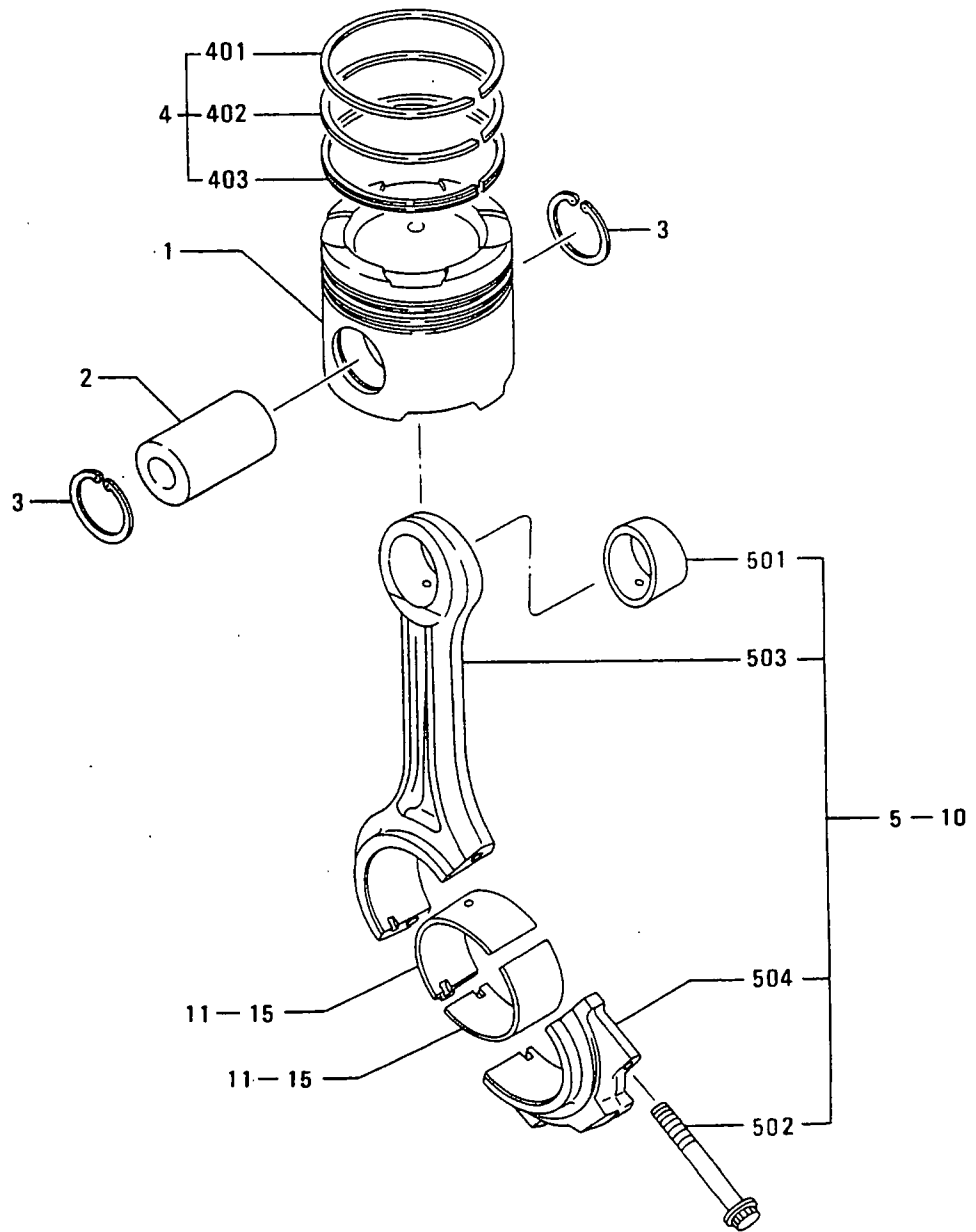
- 18-



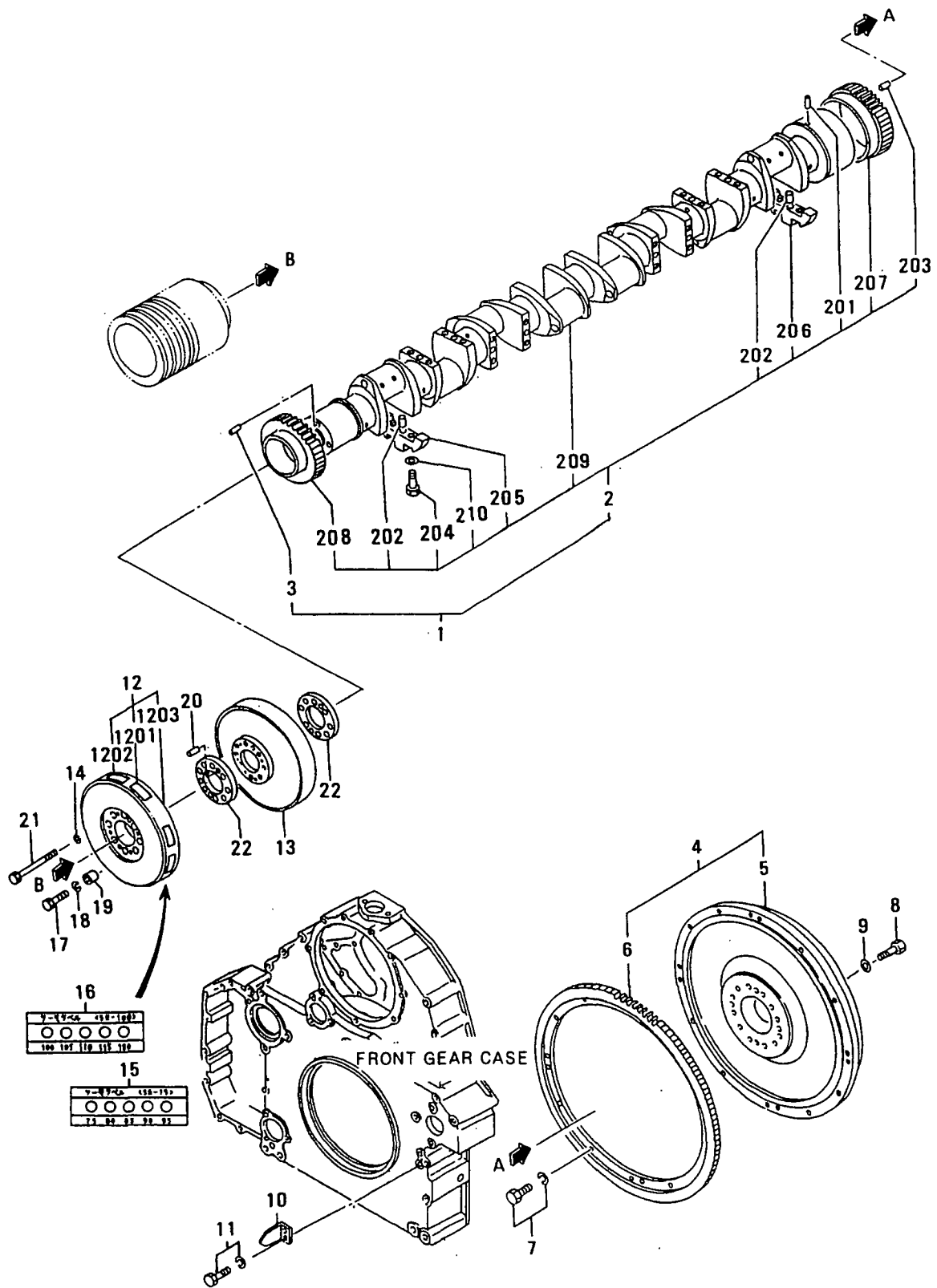
14 ENGINE MOUNTING

- 19-

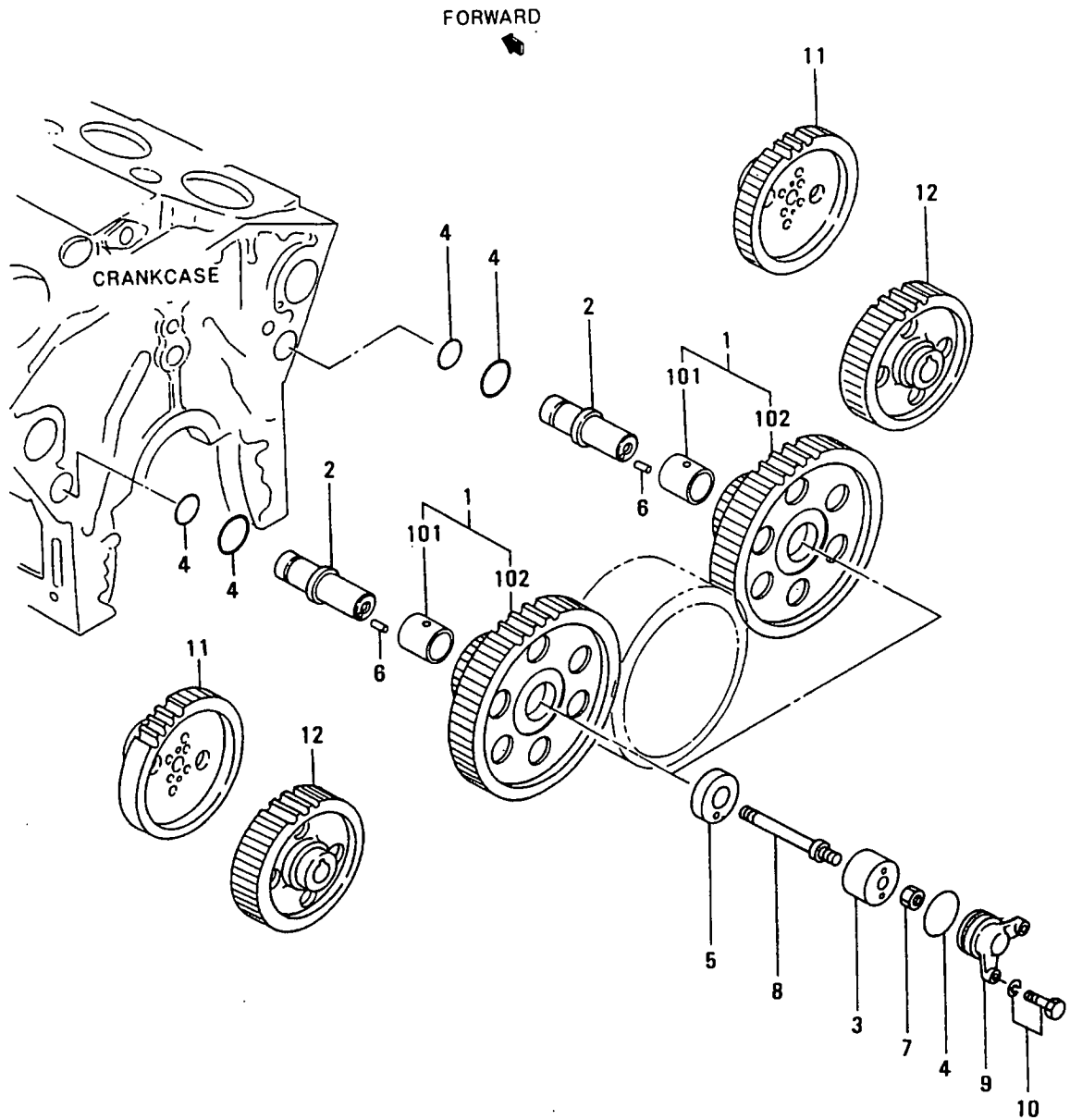
REF. NO.	PART NO.	R S C E N G P Q	PART NAME & DESCRIPTION	MODEL & QTY			APPLICABLE SERIAL NO.		M V R D
				PTAA2			FROM@-	-@UPTO	
1	37714-20100		BRACKET, MOUNTING, FR	4					
2	F1035-20080		BOLT	8					A
3	F1035-20050		BOLT	7					A
4	F1035-20035		BOLT	1					A
5	F2515-20000		WASHER, SPRING	16					A
6	37714-22101		BRACKET, MOUNTING, RE L.H	1					
7	37714-12201		BRACKET, MOUNTING, RE R.H	1					
8	F1035-20050		BOLT	8					A
9	F2515-20000		WASHER, SPRING	8					A



REF. NO.	PART NO.	R S E N G P Q	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.	M V R D		
				PTAA2					FROM@-	-@UPTO
1	37517-17200		PISTON	16						
2	37517-08101		PIN,PISTON	16				A		
3	F3202-07000		RING,SNAP	32				A		
4	37598-05800		RING SET,PISTON	16				A		
401	*		RING,COMPRESSION	16						
402	*		RING,COMPRESSION	16						
403	*		RING,OIL	16						
5	37719-30011		CONNECTING-ROD ASSY STD	16						
501	37519-00600		BUSHING,CON-ROD	16						
502	37519-20301		BOLT,CON-ROD	32				A		
503	*		CONNECTING-ROD	16						
504	37719-10200		CAP,CON-ROD	16						
6	37719-30021		CONNECTING-ROD ASSY RANK A:13.75KG	16						
7	37719-30031		CONNECTING-ROD ASSY RANK B:13.90KG	16						
8	37719-30041		CONNECTING-ROD ASSY RANK C:14.05KG	16						
9	37719-30051		CONNECTING-ROD ASSY RANK D:14.20KG	16						
10	37719-30061		CONNECTING-ROD ASSY RANK E:14.35KG	16						
11	37519-32100		METAL,CON-ROD STD	32						
12	37519-32200		METAL,CON-ROD U.S 0.25	32						
13	37519-32300		METAL,CON-ROD U.S 0.50	32						
14	37519-32400		METAL,CON-ROD U.S 0.75	32						
15	37519-32500		METAL,CON-ROD U.S 1.00	32						



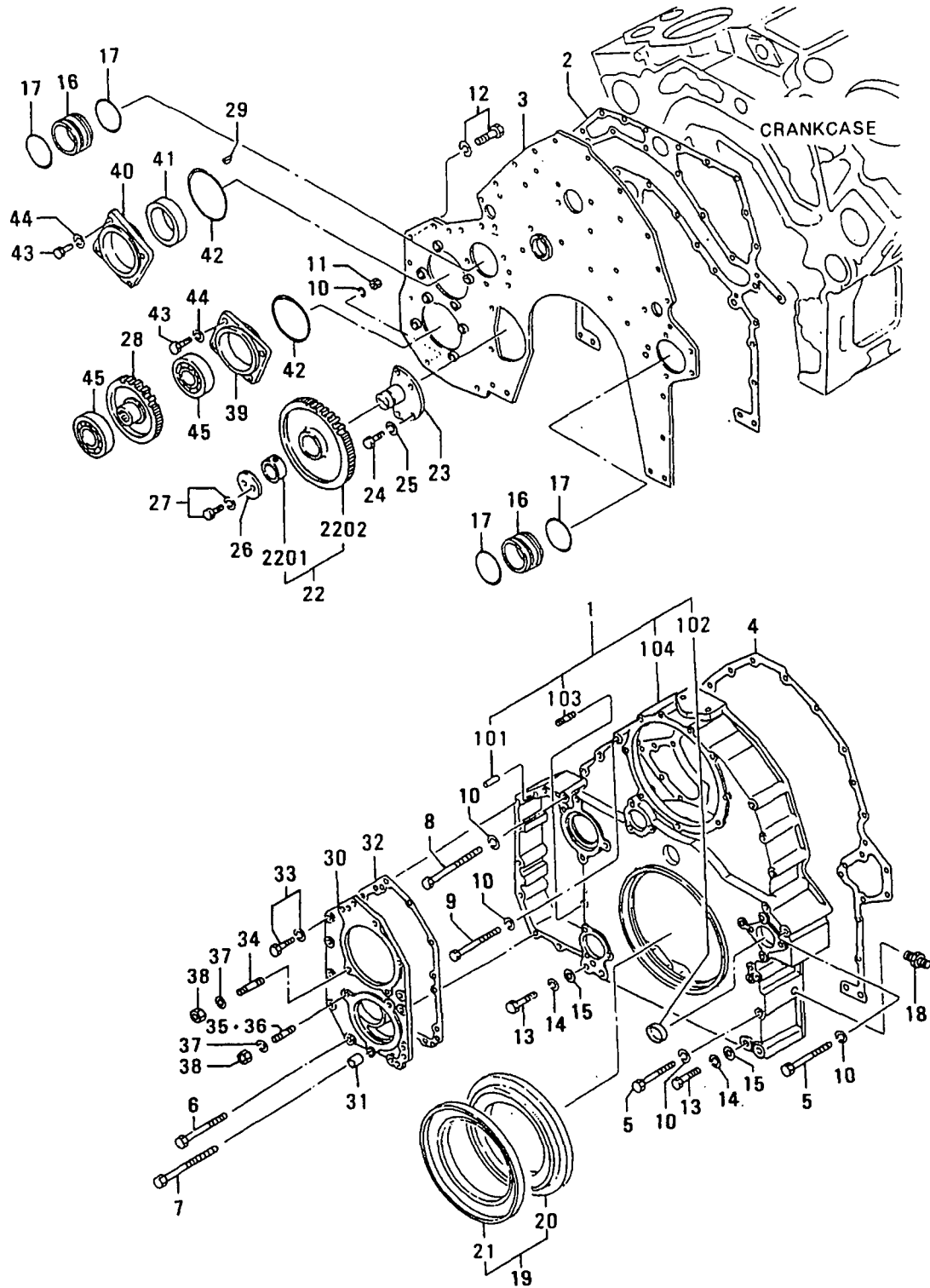
REF. NO.	PART NO.	RS EN G	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		M V R D
				PTAA2			FROM@-	-@UPTO	
1	37820-20010		CRANKSHAFT ASSY	1					
2	*		CRANKSHAFT SUB ASSY	1					
201	F2846-05000		PIN, DOWEL	1					A
202	F2846-20000		PIN, DOWEL	16					A
203	33320-04701		PIN, DOWEL	2					A
204	37420-10300		BOLT	32					A
205	37420-11202		WEIGHT, BALANCE	15					
206	37720-00300		WEIGHT, BALANCE	1					
207	37723-10100		GEAR, CRANKSHAFT Z=75	1					
208	37725-12100		GEAR, CRANKSHAFT Z=75	1					
209	*		CRANKSHAFT	1					
210	33707-11701		WASHER	32					
3	37820-00500		PIN, DOWEL	2					
4	37721-10011		FLYWHEEL ASSY	1					
5	*		FLYWHEEL	1					
6	37721-20200		GEAR, RING Z=193	1					
7	F1805-10045		BOLT, W/WASHER B/W	12					A
8	F1035-22090		BOLT	12					A
	33707-11701		WASHER	12					A
10	37722-00801		POINTER	1					
11	F1805-12020		BOLT, W/WASHER B/W	2					A
12	37822-01010		DAMPER ASSY	1					
1201	37522-02300		SEAL, TIMING	1					
1202	37522-02400		SEAL, TIMING	1					
1203	*		DAMPER, HASSE, FR	1					
13	37722-01200		DAMPER, HASSE, RE	1					
14	F2515-22000		WASHER, SPRING	8					A
15	32522-04100		LABEL SET, THERMO OPT 75° C TO 95° C	1					
16	32522-04200		LABEL SET, THERMO OPT 100° C TO 120° C	1					
17	F1035-12060		BOLT	2					A
18	F2515-12000		WASHER, SPRING	2					A
19	45713-62200		BOSS	2					
20	F2846-20000		PIN, DOWEL	2					A
21	05978-22190		BOLT	8					A
22	37722-10500		SPACER, DAMPER	2					



REF. NO.	PART NO.	RSC EN P GG	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		MV /R RD
				PTAA2			FROM@-	-@UPTO	
1	37723-23020		GEAR ASSY, IDLER Z=32&80	2					
101	37723-13400		BUSHING	2					
102	*		GEAR, IDLER	2					
2	37723-04500		SHAFT, IDLER	2					
3	37723-04600		COLLAR	2					
4	05507-20600		O-RING	6					A
5	37723-03800		PLATE, THRUST	2					
6	F2846-08000		PIN, DOWEL	2					A
7	F2325-18000		NUT, JAM	2					A
8	37723-14700		BOLT, IDLER	2					
9	37723-04900		COVER	2					
10	F1805-12030		BOLT, W/WASHER B/W	4					A
11	37723-11100		GEAR, CAMSHAFT Z=60	2					
12	37723-12100		GEAR, INJ PUMP Z=60	2					

# 25-01 ACCESSORY DRIVE (FRONT)

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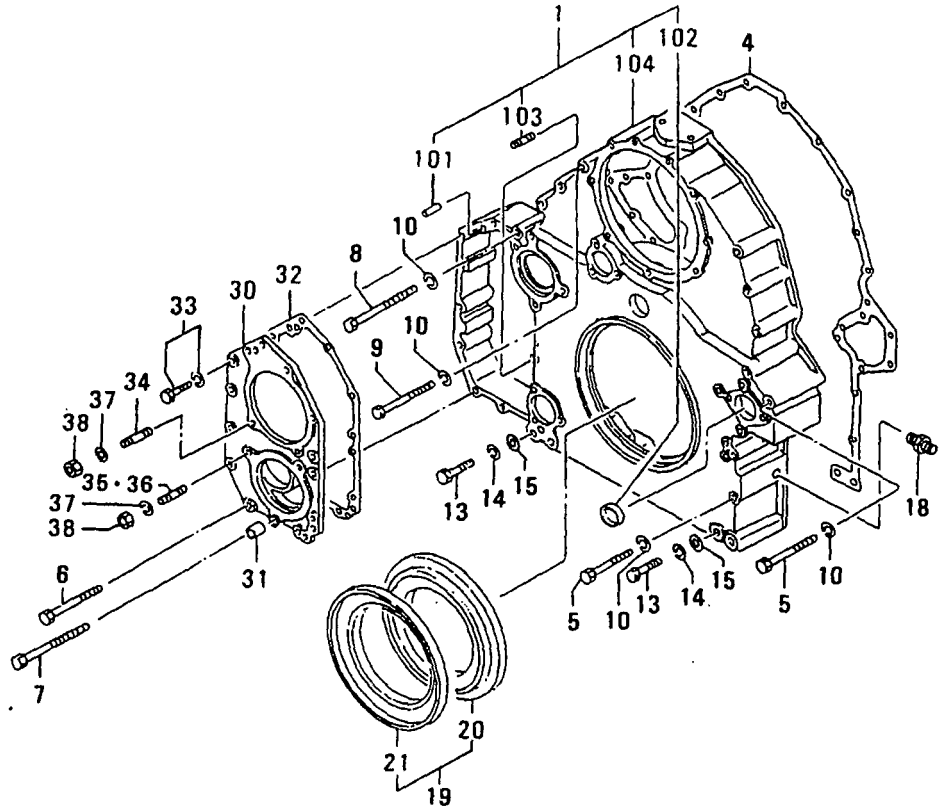
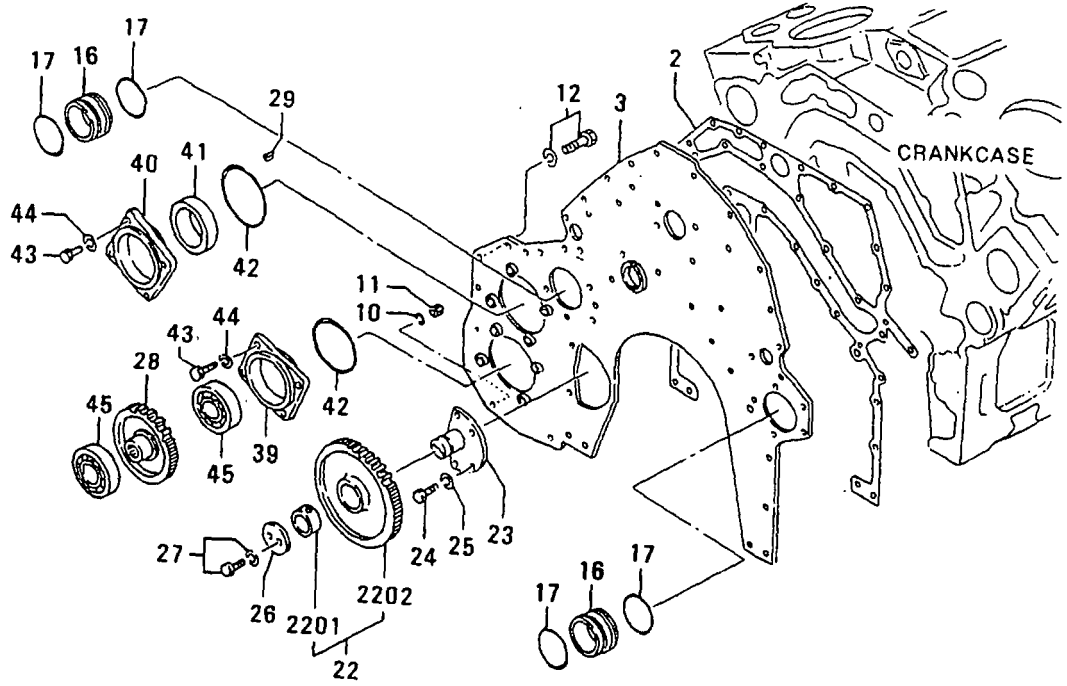


25-01 ACCESSORY DRIVE (FRONT)

- 27-

REF. LNO.	PART NO.	R P O R T S C O D E	PART NAME & DESCRIPTION	MODEL & QTY			APPLICABLE SERIAL NO.		M V R I D
				PTAA2			FROM@-	-@UPTO	
1	37725-21010		CASE ASSY, GEAR, FR	1					
101	F2846-12000		PIN, DOWEL	2					A
102	04826-25000		CAP, SEALING	2					
103	05977-12030		STUD	2					
104	*		CASE, GEAR, FR	1					
2	37725-30200		PACKING, FRONT	1					
3	37725-70301		PLATE, FRONT	1					
4	37725-40400		PACKING, FRONT	1					
5	MH000236		BOLT	10					A
6	F1035-12130		BOLT	6					A
7	05978-12160		BOLT	1					A
8	F1035-12110		BOLT	3					A
9	F1035-12100		BOLT	1					A
10	F2515-12000		WASHER, SPRING	21					A
11	F2300-12000		NUT	4					A
12	F1805-12025		BOLT, W/WASHER B/W	27					A
13	05978-16160		BOLT	4					A
14	F2515-16000		WASHER, SPRING	4					A
15	F2500-16000		WASHER, PLAIN	4					A
16	37746-00501		JOINT	2					
17	F3153-07500		O-RING	4					A
18	F4540-06300		CONNECTOR	1					
19	37725-18000		OIL SEAL ASSY, FR	1					
20	37425-08200		SLINGER	1					
21	37511-04300		SEAL, OIL	1					A
22	37725-03010		GEAR ASSY, IDLER Z=56	1					
2201	37123-03400		BUSHING	1					
2202	*		GEAR, IDLER	1					
23	37725-03500		SHAFT, IDLER	1					
24	F1035-12035		BOLT	4					A
25	F2515-12000		WASHER, SPRING	4					A
26	32423-03800		PLATE	1					
27	F1805-10020		BOLT, W/WASHER B/W	2					A
28	37725-22301		GEAR, OIL PUMP Z=50	1					
29	F2870-10032		KEY, WOODRUFF	1					
30	37725-40500		PLATE	1					
31	37561-01800		PIN, DOWEL	1					A
32	37725-20600		PACKING	1					A
33	F1805-12035		BOLT, W/WASHER B/W	4					A
34	05977-12030		STUD	2					
35	05977-12065		STUD	2					
36	05977-12050		STUD	2					
37	F2515-12000		WASHER, SPRING	6					A
38	F2300-12000		NUT	6					A
39	37725-00801		COVER, BEARING	1					
40	37725-00902		COVER, BEARING	1					
41	F3015-06523		SEAL, OIL	1					A
42	F3156-12500		O-RING	2					A
43	F1035-12025		BOLT	8					A
44	F2515-12000		WASHER, SPRING	8					A

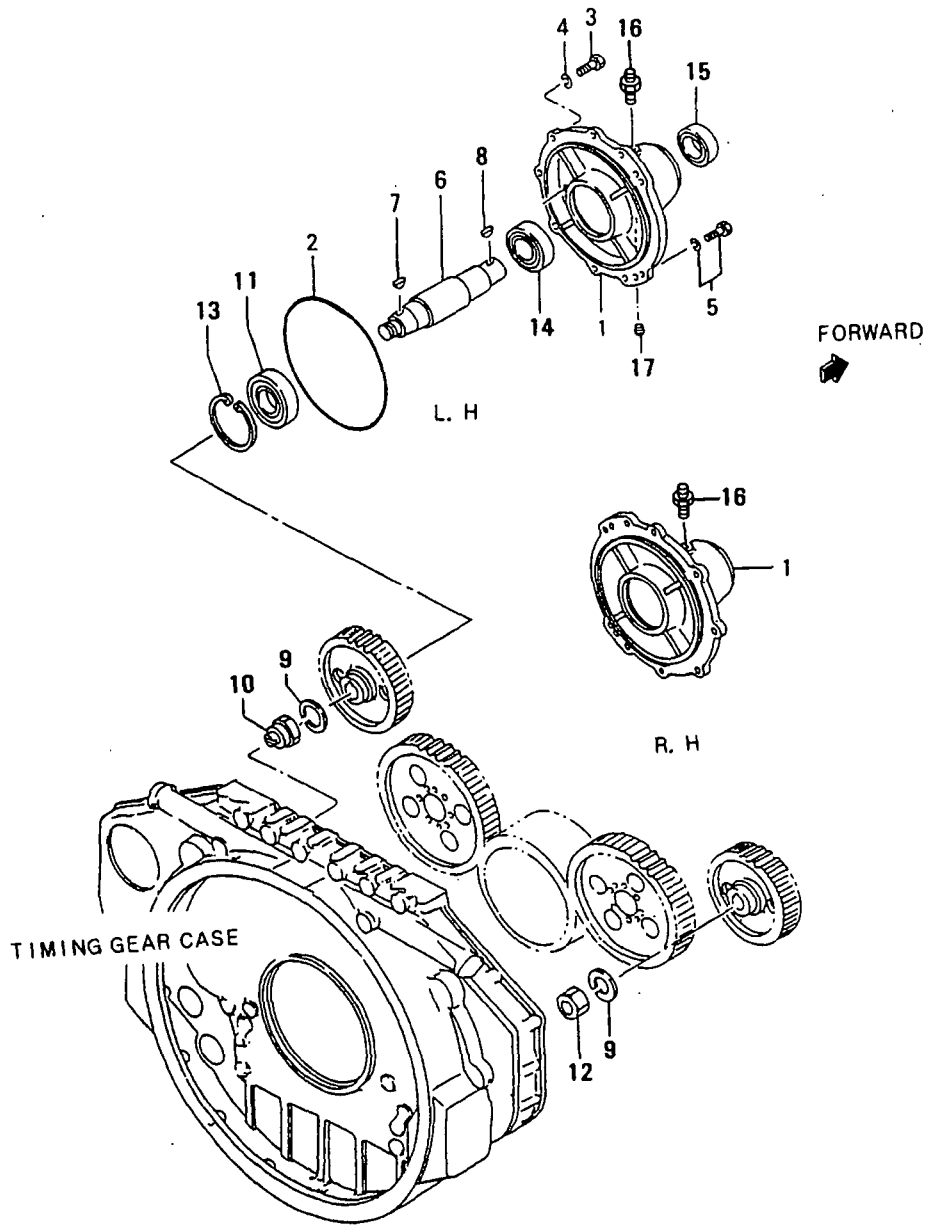
### 25-01 ACCESSORY DRIVE (FRONT)





25-02 ACCESSORY DRIVE (REAR)

- 30-

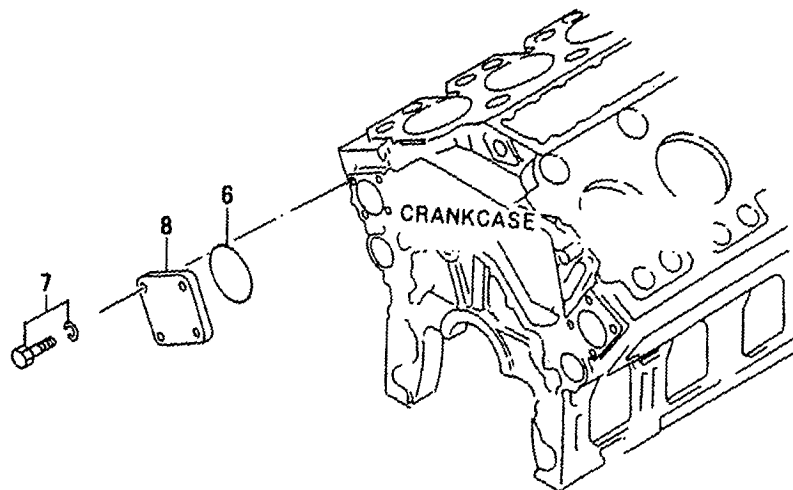
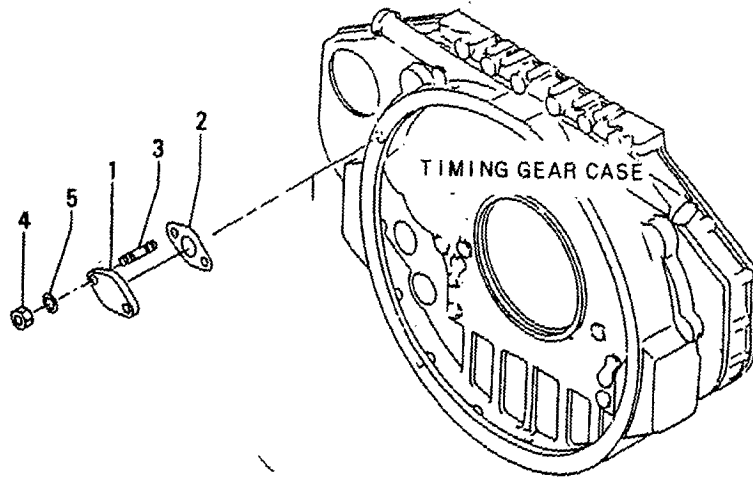


25-02 ACCESSORY DRIVE (REAR)

- 31-

REF. NO.	PART NO.	RISC /EN PG	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		MV /RD
				PTAA2			FROM@-	-@UPTO	
1	37525-43100		CASE, DRIVE	2					
2	37525-03600		O-RING	2					A
3	F1035-12045		BOLT	10					A
4	F2515-12000		WASHER, SPRING	10					A
5	F1805-12035		BOLT, W/WASHER B/W	4					A
6	37725-15300		SHAFT, DRIVE	2					
7	F2870-07025		KEY, WOODRUFF	2					
8	F2870-10032		KEY, WOODRUFF	2					
9	F2515-30000		WASHER, SPRING	2					A
10	37125-25602		COUPLING, DAMPER	1					
11	F8010-06309		BEARING, BALL	2					A
12	94104-01100		NUT	1					A
13	F3202-10000		RING, SNAP	2					A
14	F8006-06210		BEARING, BALL	2					A
15	37525-03400		SEAL, OIL	2					A
16	47500-55701		CONNECTOR	1					
17	04827-71300		PLUG, TAPERED	2					A

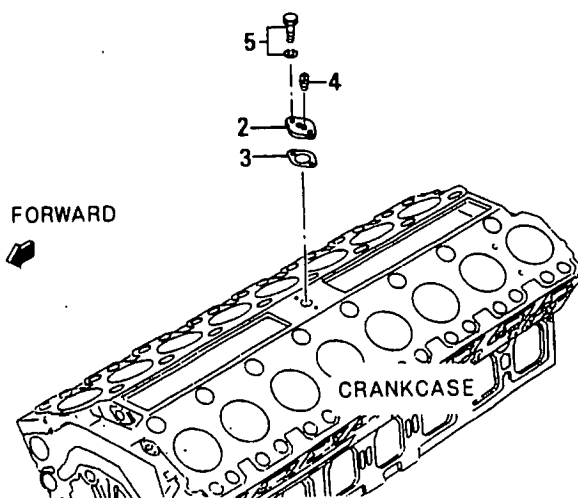
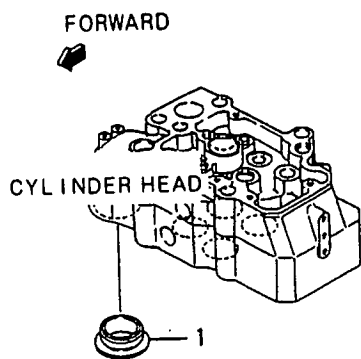
# 25-03 HOURMETER COVER





30 INLET SYSTEM

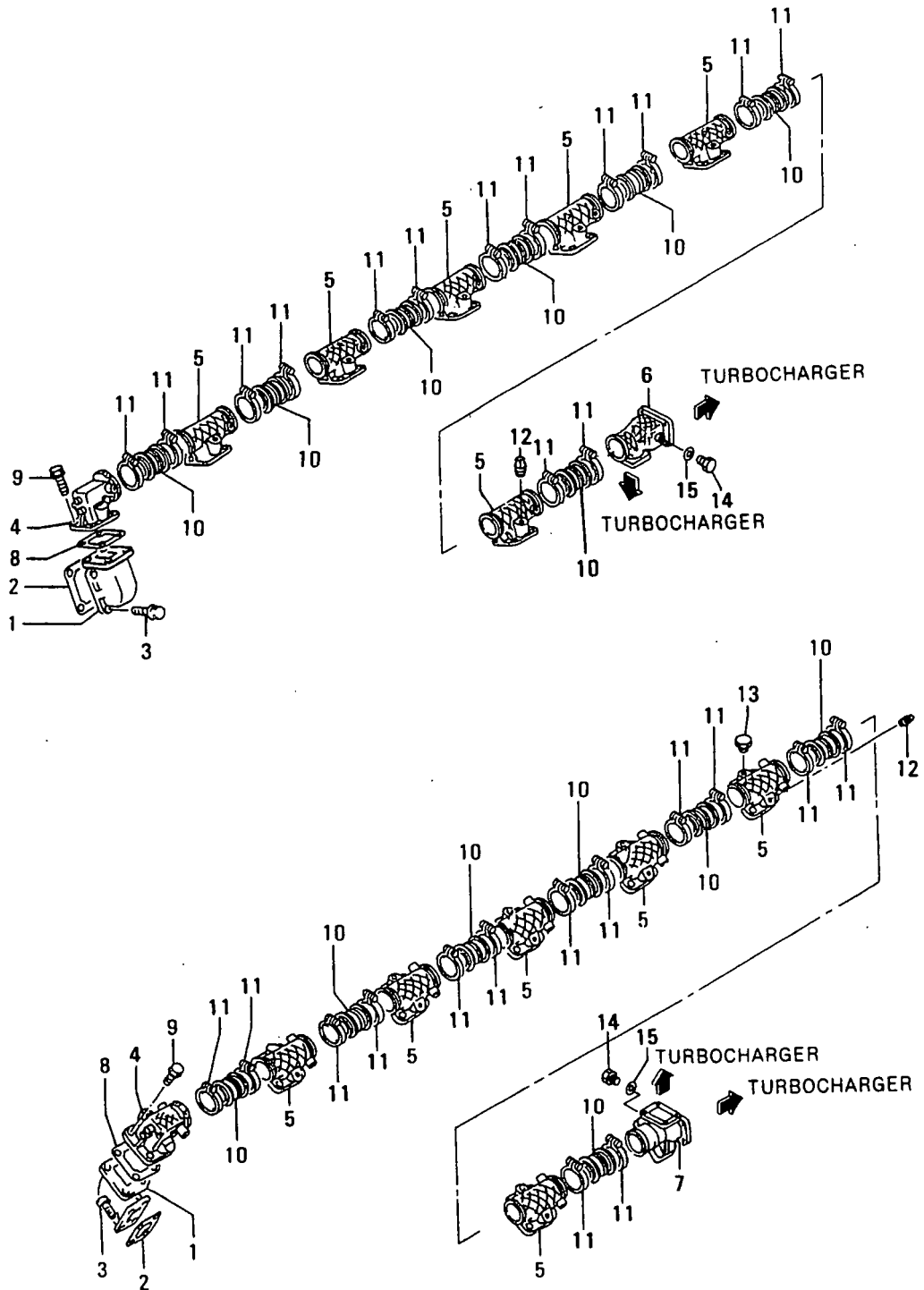
- 34-





# 32-01 EXHAUST SYSTEM (PART-1)

- 36-

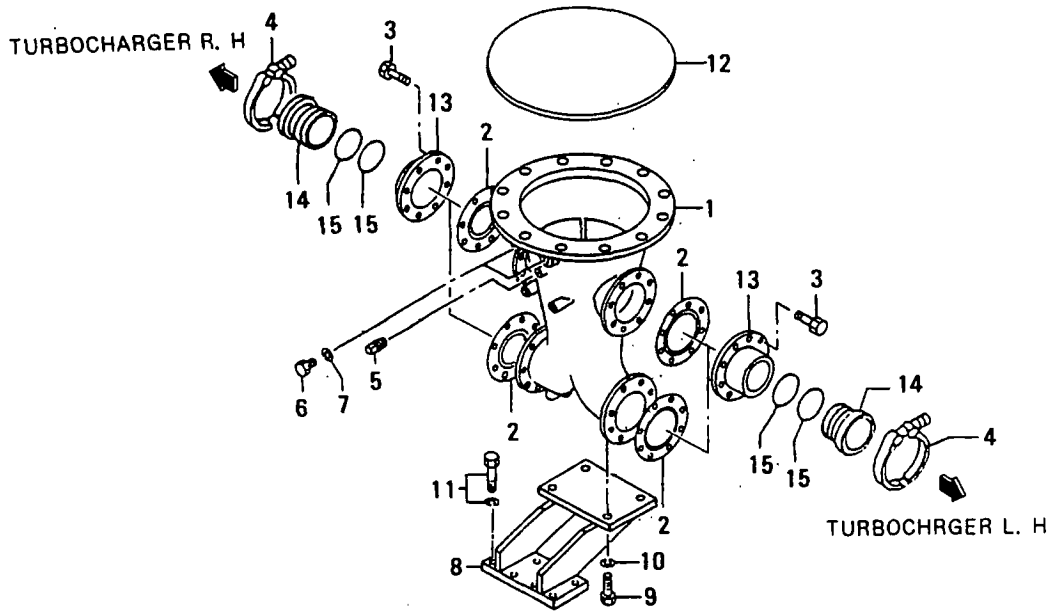


32-01 EXHAUST SYSTEM(PART-1)

REF. NO.	PART NO.	R/P Q/PS GZCO	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		M/R R/D
				PTAA2			FROM@-	-@UPTO	
1	37732-21100		CONNECTOR	16					
2	37532-10500		GASKET, EXHAUST	16					A
3	37532-00800		BOLT	64					A
4	37732-53100		MANIFOLD, EXH	2					
5	37732-53200		MANIFOLD, EXH	12					
6	37799-29101		MANIFOLD, EXH, R.H	1					
7	37799-29102		MANIFOLD, EXH, L.H	1					
8	37732-10900		GASKET, EXHAUST	16					A
9	32532-20800		BOLT	64					A
10	37732-53700		JOINT, FLEXIBLE	14					
11	37732-13800		V-CLAMP	28					A
12	F5006-13000		PLUG, TAPER	16					A
13	37732-02600		PLUG, TEPERED	16					A
14	45764-75201		PLUG	2					A
15	F4202-27000		GASKET	2					A

32-02 EXHAUST SYSTEM (PART-2)

- 38-

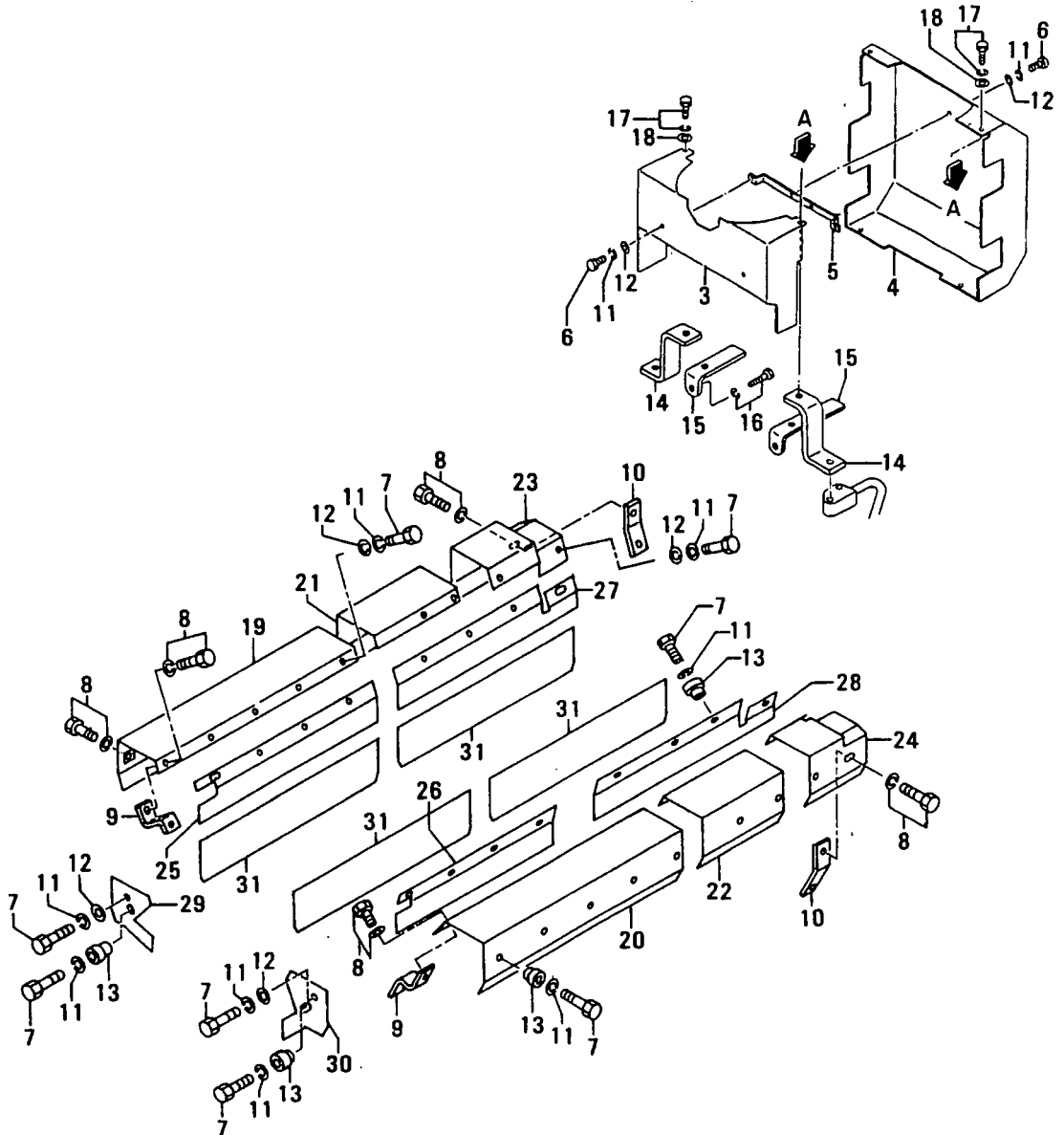
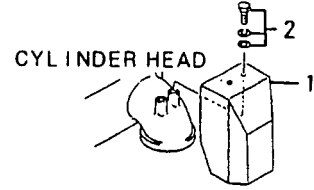


32-02 EXHAUST SYSTEM (PART-2)

REF. NO.	PART NO.	R/S P/ENG	PART NAME & DESCRIPTION	MODEL & QTY			APPLICABLE SERIAL NO.		M/V R/D
				PTAA2			FROM@-	-@UPTO	
1	37832-24500		PIPE, EXHAUST	1					
2	37832-14300		GASKET, EXHAUST	4					A
3	32532-20800		BOLT	32					A
4	49181-14004		V-CLAMP ASSY	4					A
5	F5006-10000		PLUG, TAPERED	2					A
6	45764-75201		PLUG	1					A
7	F4202-27000		GASKET	1					A
8	37832-24700		BRACKET, EXH PIPE	1					A
9	07707-12030		BOLT	4					A
10	F2515-12000		WASHER, SPRING	4					A
11	F1805-12030		BOLT, W/WASHER B/W	8					A
12	37832-04800		COVER, EXHAUST	1					
13	37832-05300		COUPLING	4					
14	37832-05400		COUPLING	4					
15	37432-14700		RING, SEAL	8					

32-03 EXHAUST COVER

- 40-

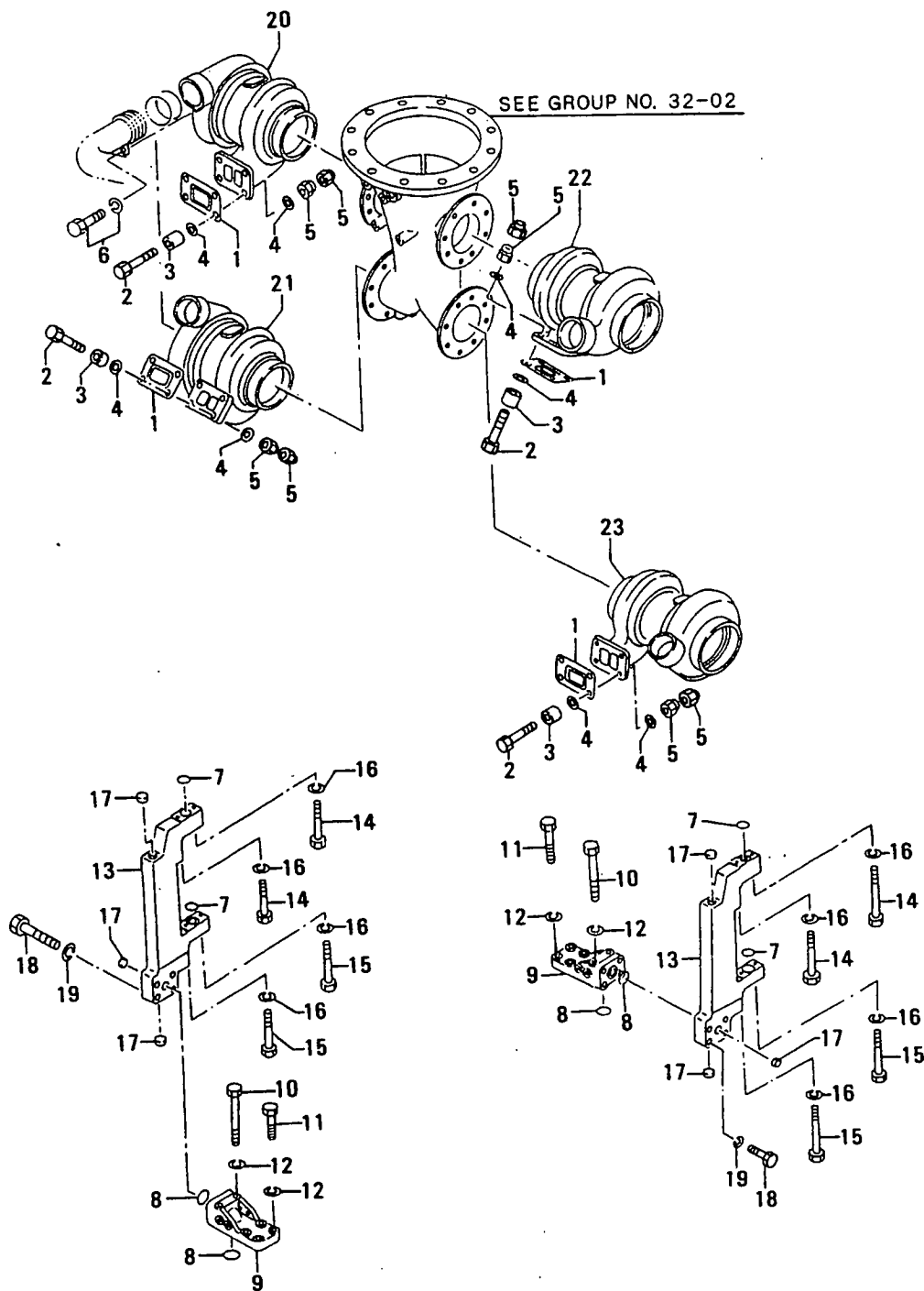


32-03 EXHAUST COVER

REF. NO.	PART NO.	R/S P/GENC	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		MVRD
				PTAA2			FROM@-	-@UPTO	
1	37532-27100		INSULATOR	16					
2	F1825-08016		BOLT, W/WASHER B/W	32					A
3	37832-18101		INSULATOR, TURBO, FR	1					
4	37832-18201		INSULATOR, TURBO, RE	1					
5	37832-08300		STAY	1					
6	49126-60220		BOLT	6					A
7	32532-07320		BOLT	24					A
8	F1805-10020		BOLT, W/WASHER B/W	18					A
9	37733-07100		STAY, INSULATOR	8					
10	37733-17200		STAY, INSULATOR	10					
11	F2515-10000		WASHER, SPRING	30					A
12	F2500-10000		WASHER, PLAIN	14					A
13	37732-27100		WASHER, INSULATOR	12					
14	37732-09501		STAY, INSULATOR	2					
15	63669-23400		PLATE	2					
16	F1805-10020		BOLT, W/WASHER B/W	2					A
17	F1805-10016		BOLT, W/WASHER B/W	4					A
18	F2500-10000		WASHER, PLAIN	4					A
19	37733-07600		INSULATOR, R.H, FR	1					
20	37733-07700		INSULATOR, L.H, FR	1					
21	37833-06400		INSULATOR, R.H, CTR	1					
22	37833-06500		INSULATOR, L.H, CTR	1					
23	37732-18400		INSULATOR, R.H, RE	1					
24	37732-18500		INSULATOR, L.H, RE	1					
25	37832-15900		INSULATOR, R.H, FR	1					
26	37832-16100		INSULATOR, L.H, FR	1					
27	37833-06600		INSULATOR, R.H, RE	1					
28	37833-06700		INSULATOR, L.H, RE	1					
29	37732-27800		INSULATOR, R.H, FR	1					
30	37732-27900		INSULATOR, L.H, FR	1					
31	37833-06300		INSULATOR	4					

33-01 TURBOCHARGER GENERAL

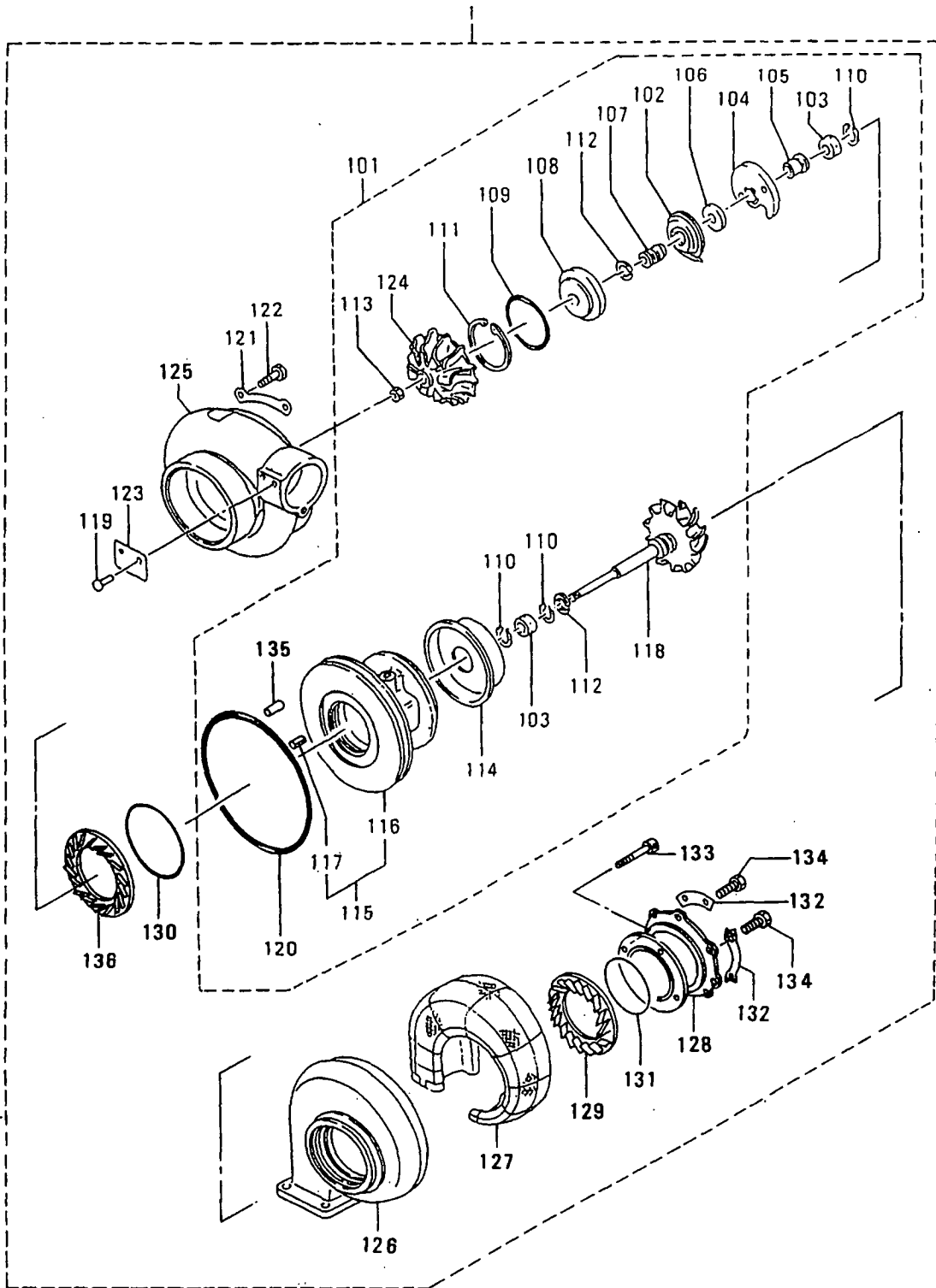
- 42-



33-01 TURBOCHARGER GENERAL

EF. NO.	PART NO.	R S E N G P Q	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		M V R D
				PTAA2			FROM@-	-@UPTO	
1	32532-09100		GASKET, TURBOCHARGER	4					
2	32532-06485		BOLT	16					A
3	37733-03800		SPACER	16					
4	37733-03900		WASHER	32					A
5	87033-42700		NUT	32					A
6	F2005-10020		BOLT, W/WASHER B/W	4					A
7	05507-20300		O-RING	4					A
8	F3156-03000		O-RING	4					A
9	37832-04101		BRACKET, TURBO	2					
0	F1035-12090		BOLT	4					A
1	F1035-12050		BOLT	8					A
2	F2515-12000		WASHER, SPRING	12					A
3	37832-14200		BRACKET, TURBO	2					
4	F1155-10070		BOLT	4					A
5	F1155-10055		BOLT	4					A
6	F2515-10000		WASHER, SPRING	8					A
7	04826-22500		CAP, SEALING	2					
8	F1035-16065		BOLT	8					A
	F2515-16000		WASHER, SPRING	8					A
0	49397-82601		TURBOCHARGER ASSY R.H UPPER	1					
1	49397-82602		TURBOCHARGER ASSY R.H LOWER	1					
2	49397-82603		TURBOCHARGER ASSY L.H UPPER	1					
3	49397-82604		TURBOCHARGER ASSY L.H LOWER	1					

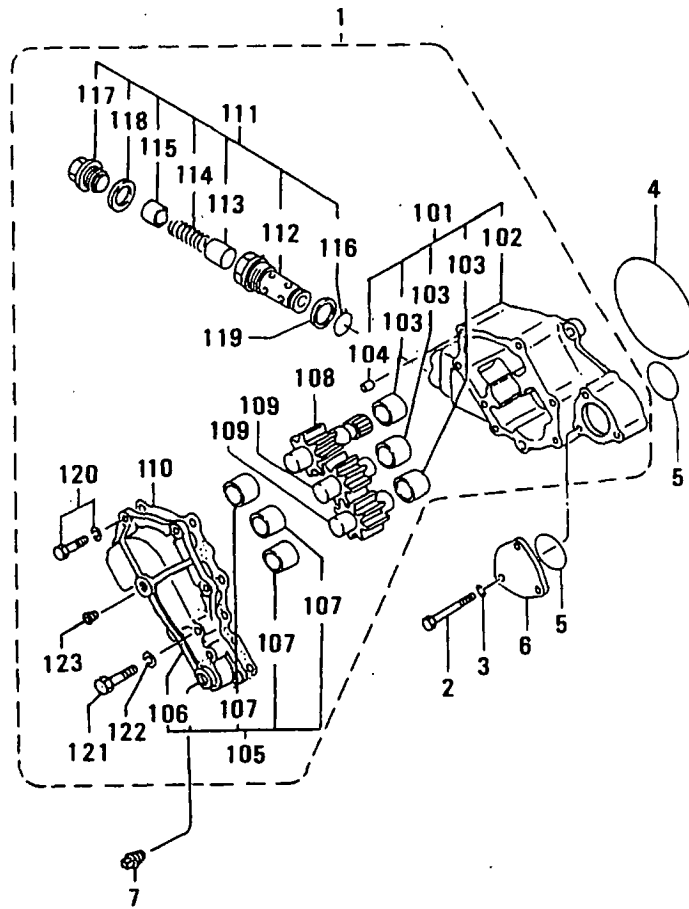
33-02 TURBOCHARGER (MODEL TD13L-43Q23.5VRC-N30)



33-02 TURBOCHARGER (MODEL TD13L-43Q23.5VRC-N30)

- 45 -

REF. NO.	PART NO.	R/S P/EN Q/G	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		M/V R/RD
				PTAA2			FROM@-	-@UPTO	
1	49397-82601		TURBOCHARGER ASSY R.H UPPER	1					
	49397-82602		TURBOCHARGER ASSY R.H LOWER	1					
	49397-82603		TURBOCHARGER ASSY L.H UPPER	1					
	49397-82604		TURBOCHARGER ASSY L.H LOWER	1					
101	49182-07020		CARTRIDGE ASSY	4					A
102	49181-22200		DEFLECTOR,OIL	4					
103	49181-21100		BEARING	8					A
104	49181-21600		BEARING, THRUST	4					A
105	49181-42400		RING, THRUST	4					
106	49181-42300		RING, THRUST	4					
107	49181-42100		SLEEVE, SLINGER	4					
108	49181-22500		INSERT	4					
109	49181-22600		O-RING	4					A
110	49181-22300		RING, SNAP	12					A
111	49162-23200		RING, SNAP	4					A
112	49181-23100		RING, PISTON	8					A
113	49181-42200		NUT, LOCK	4					
114	49182-19300		PLATE, BACK TURBINE	4					
115	49182-25610		HOUSING ASSY, BRG	4					
116	*		HOUSING, BRG	4					
117	*		PIN, SPRING	4					
118	49182-30110		ROTOR ASSY	4					
119	00665-02048		RIVET, SCREW	8					
120	49181-22710		O-RING	4					A
121	49181-23500		PLATE, LOCK	16					
122	49181-23700		BOLT	32					A
123	*		NAME-PLATE	4					
124	49182-45050		WHEEL, COMPRESSOR	4					
125	49182-53150		COVER, COMPRESSOR	4					
126	49182-17121		TURBINE-HOUSING	4					
127	49182-17301		LAGGING	4					
128	49182-17210		FLANGE	4					
129	49182-17620		RING, NOZZLE	4					
130	49174-22700		O-RING	4					A
131	49182-18300		RING, WIRE	4					
132	49182-17280		PLATE, CLAMP	16					
133	49182-18200		BOLT	16					A
134	49182-18000		BOLT	64					A
135	F2846-04000		PIN, DOWEL	4					A
136	49182-61150		DIFFUSER	4					



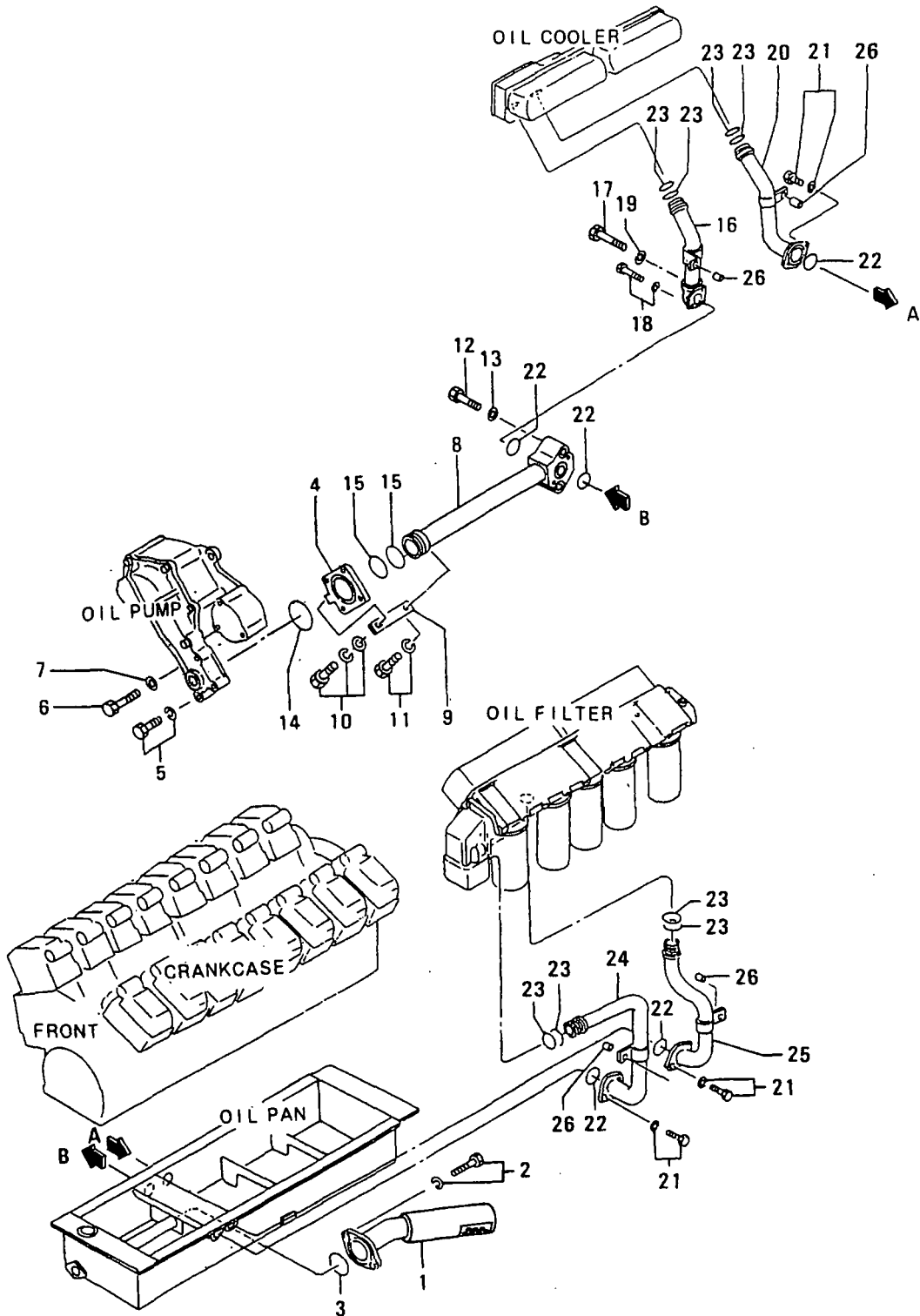
35 OIL PUMP

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REF. NO.	PART NO.	R/S P/ENG	PART NAME & DESCRIPTION	MODEL & QTY			APPLICABLE SERIAL NO.		M/V R/D
				PTAA2			FROM@-	-@UPTO	
1	37735-90010		PUMP ASSY,OIL	1					
101	37735-71000		CASE ASSY	1					
102	*		CASE	3					
103	*		BUSHING	3					
104	*		PIN,DOWEL	2					A
105	37735-62000		COVER ASSY	1					
106	*		COVER,OIL PUMP	1					
107	*		BUSHING	3					
108	37735-30300		GEAR,DRIVE	1					
109	37735-40400		GEAR,DRIVEN	2					
									Z=10
									Z=10
110	37735-30701		PACKING	1					A
111	37735-48020		VALVE ASSY	3					
112	*		CASE,VALVE	1					
113	34A35-01200		VALVE,SAFETY	3					
114	37535-02300		SPRING	3					A
115	37535-12200		STOPPER	3					
116	37735-10900		O-RING	3					A
117	37735-21800		PLUG	3					A
118	05946-02401		WASHER,SEALING	3					A
119	05946-03301		WASHER,SEALING	3					A
120	F1805-10035		BOLT,W/WASHER	6					A
									B/W
121	F1035-10080		BOLT	2					A
122	F2515-10000		WASHER,SPRING	2					A
123	04827-90330		PLUG,TAPERED	1					A
2	F1035-12090		BOLT	3					A
3	F2515-12000		WASHER,SPRING	3					A
4	F3156-14500		O-RING	1					A
5	F3156-07500		O-RING	2					A
6	37735-03100		COVER,OIL PUMP	1					
7	F5006-26000		PLUG,TAPERED	1					A

# 36-01 OIL STRAINER

- 48-

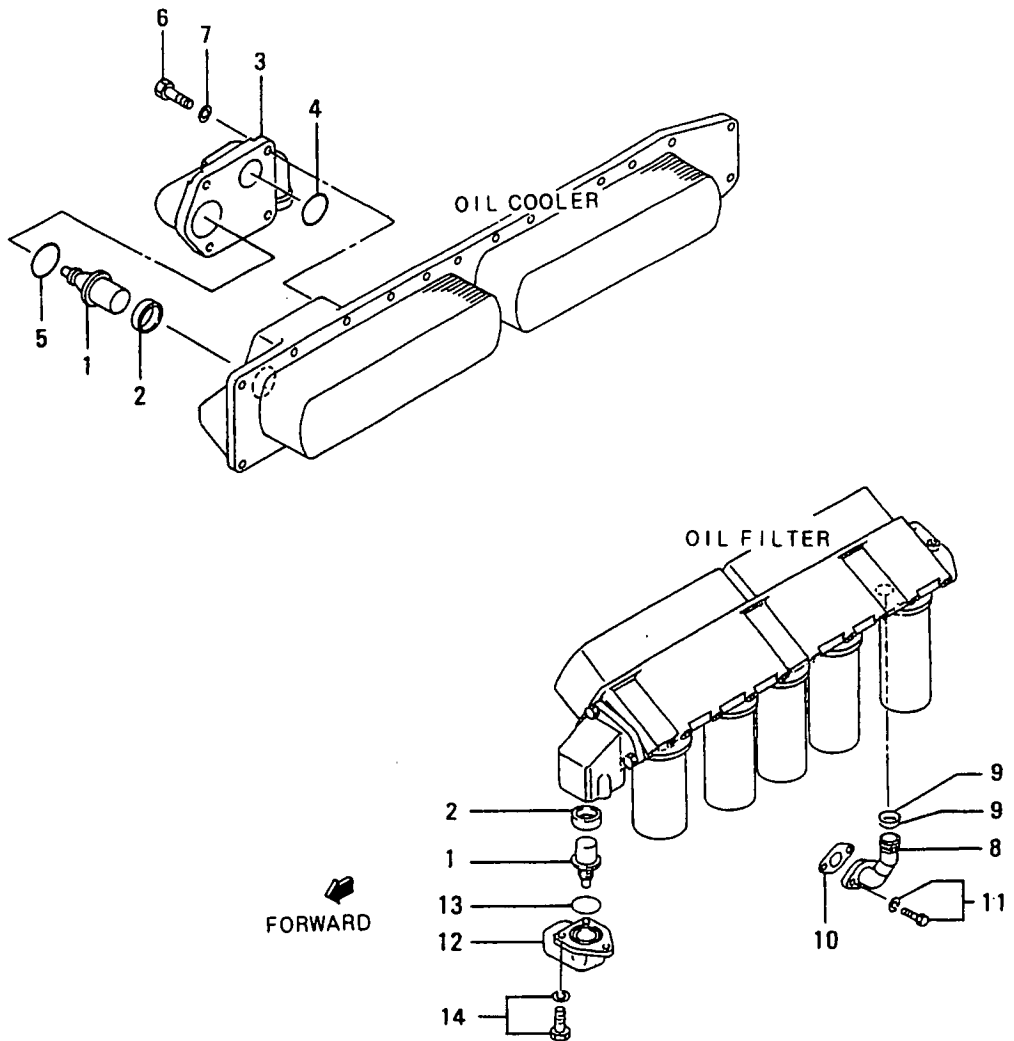


36-01 OIL STRAINER

REF. NO.	PART NO.	RSC /EN P/QG	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		MV /R RD
				PTAA2			FROM@-	-@UPTO	
1	37736-10101		STRAINER,OIL	1					A
2	F1805-12030		BOLT,W/WASHER B/W	2					A
3	F3156-08000		O-RING	1					A
4	37736-03400		CONNECTOR	1					A
5	F1805-10030		BOLT,W/WASHER B/W	2					A
6	F1035-10080		BOLT	2					A
7	F2515-10000		WASHER,SPRING	2					A
8	37736-02500		PIPE,OIL	1					A
9	32646-08600		STAY	1					A
10	F1825-10020		BOLT,W/WASHER B/W	1					A
11	F1805-10020		BOLT,W/WASHER B/W	1					A
12	F1035-12080		BOLT	2					A
13	F2515-12000		WASHER,SPRING	2					A
14	F3156-08000		O-RING	1					A
15	F3156-06500		O-RING	2					A
16	37736-33600		PIPE,OIL R.H	1					A
17	F1035-10065		BOLT	1					A
18	F1805-10025		BOLT,W/WASHER B/W	1					A
19	F2515-10000		WASHER,SPRING	1					A
20	37736-23700		PIPE,OIL	1					A
21	F1805-10025		BOLT,W/WASHER B/W	6					A
22	F3156-05000		O-RING	5					A
23	F3156-03500		O-RING	8					A
24	37736-13800		PIPE,OIL	1					A
25	37736-13900		PIPE,OIL	1					A
26	37736-01500		SPACER	4					A

# 36-02 OIL PIPE (PART-1)

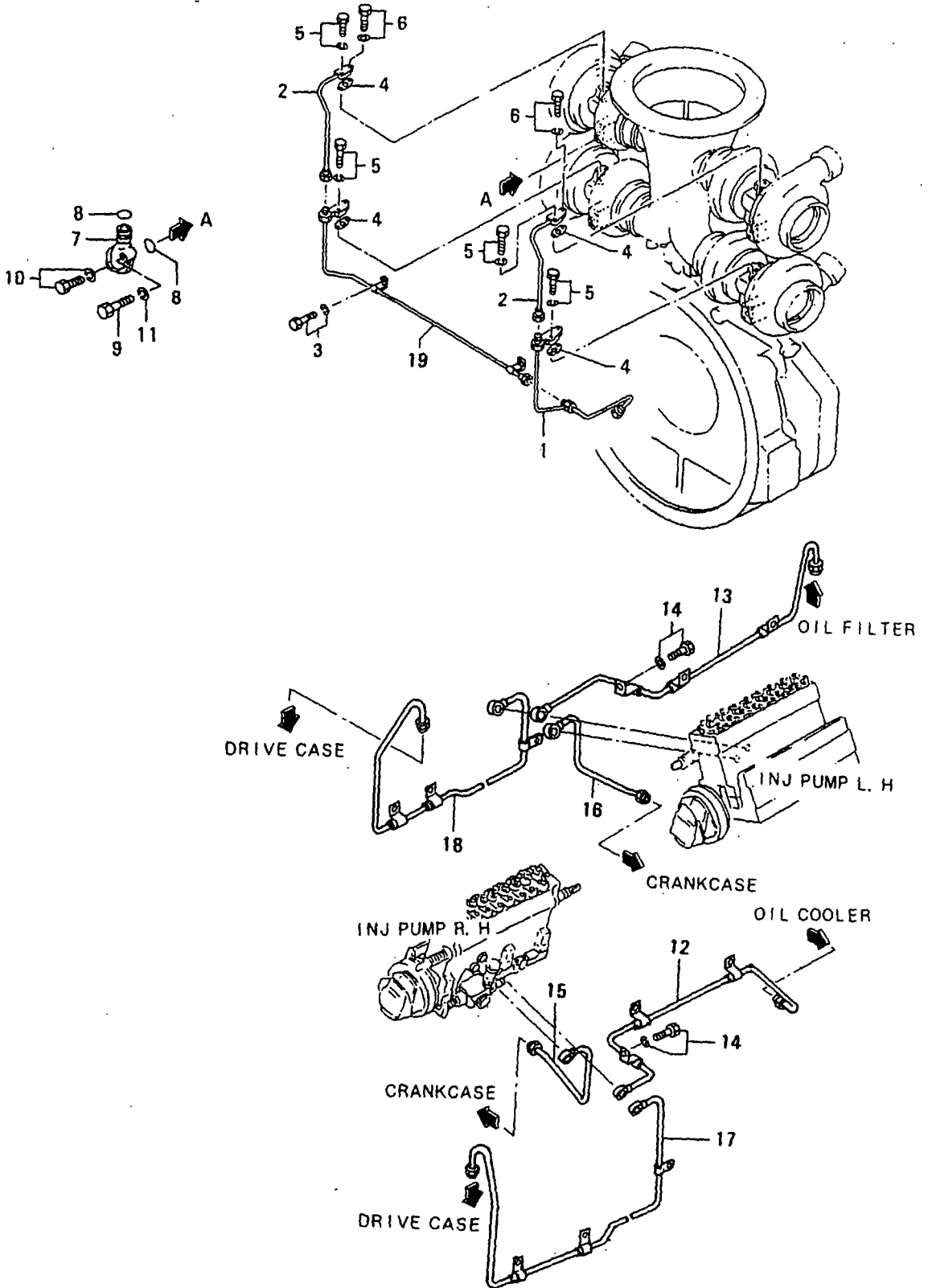
- 50-



36-02 OIL PIPE (PART-1)

REF. NO.	PART NO.	R/S P/Q	SC EN G	PART NAME & DESCRIPTION	MODEL & QTY			APPLICABLE SERIAL NO.		M/V R/D
					PTAA2			FROM@-	-@UPTO	
1	37739-20500			THERMOSTAT, OIL	2					
2	37546-00800			SEAL, THERMOSTAT	2					
3	37736-21200			CONNECTOR	1					
4	F3156-04000			O-RING	1					A
5	F3156-08500			O-RING	1					A
6	F1035-12100			BOLT	4					A
7	F2515-12000			WASHER, SPRING	4					A
8	37736-34200			PIPE, OIL	1					
9	F3156-03500			O-RING	2					A
10	33442-10200			PACKING	1					A
11	F1805-10020			BOLT, W/WASHER	2					A
12	37736-11300			CONNECTOR	1					
13	F3156-08000			O-RING	1					A
14	F1805-12025			BOLT, W/WASHER	3					A

36-03 OIL PIPE (PART-2)

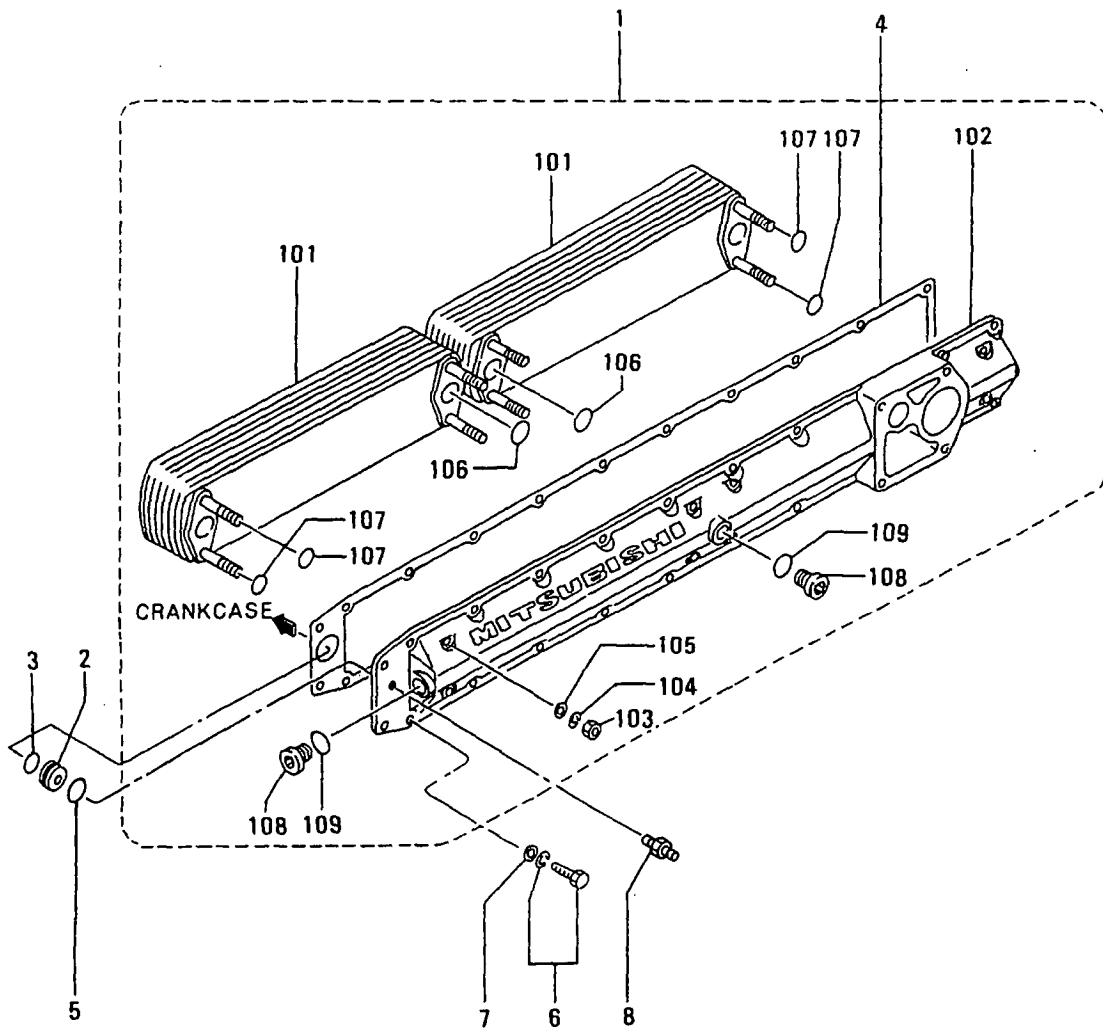


36-03 OIL PIPE (PART-2)

- 53-

REF. NO.	PART NO.	RSC EN P GG	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		M V R D
				PTAA2			FROM@-	-@UPTO	
1	37836-15101		PIPE,OIL,R.H	1					
2	37836-25200		PIPE,OIL	2					
3	F1805-10016		BOLT,W/WASHER B/W	2					A
4	36236-00700		PACKING	4					A
5	F2005-10040		BOLT,W/WASHER B/W	6					A
6	F2005-10045		BOLT,W/WASHER B/W	2					A
7	37836-25900		CONNECTOR,DRAIN	4					
8	05507-20250		O-RING	8					A
9	F1035-10080		BOLT	4					A
10	F1805-10025		BOLT,W/WASHER B/W	4					A
11	F2515-10000		WASHER,SPRING	4					A
12	37836-26100		PIPE,OIL,R.H	1					
13	37836-36200		PIPE,OIL,L.H	1					
14	F1805-08020		BOLT,W/WASHER B/W	2					A
15	37836-26600		PIPE,DRAIN,R.H	1					
16	37836-26700		PIPE,DRAIN,L.H	1					
17	37836-56400		PIPE,OIL,R.H	1					
18	37836-66300		PIPE,OIL,L.H	1					
	37836-15401		PIPE,OIL,L.H	1					

### 39 OIL COOLER



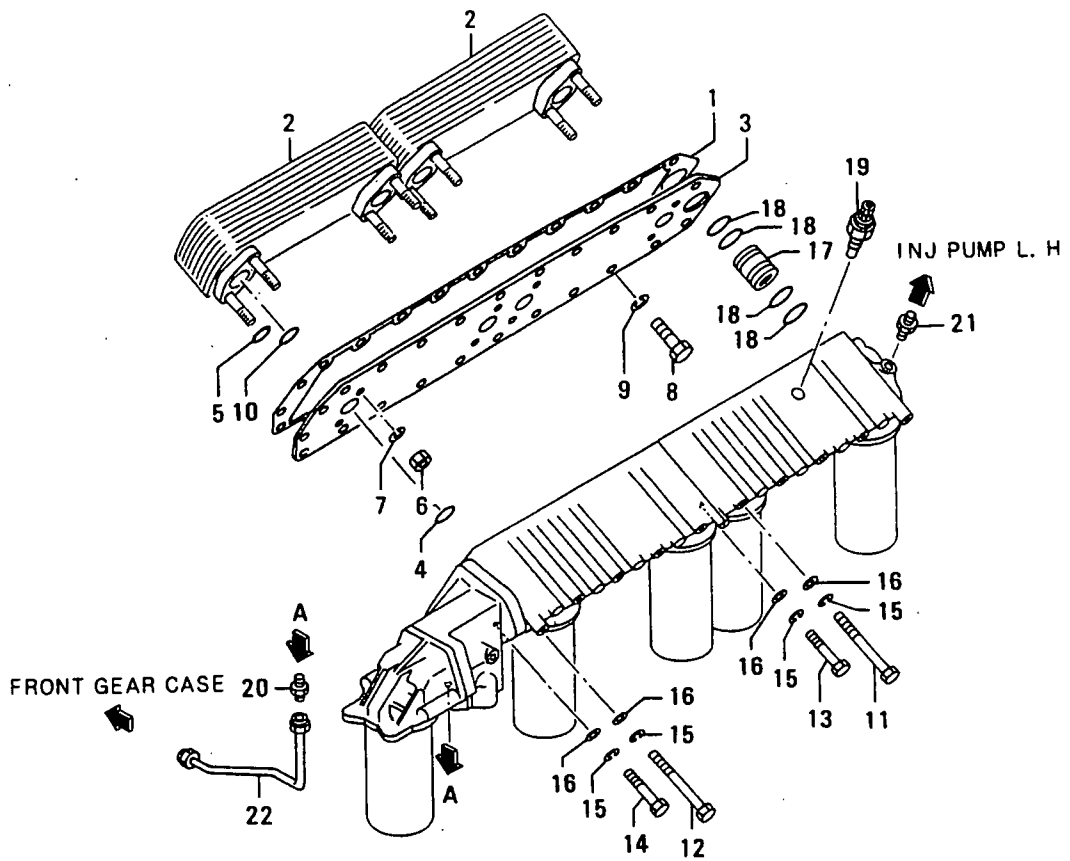
39 OIL COOLER

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REF. NO.	PART NO.	RSC /EN PGG	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		MV /R RD
				PTAA2			FROM@-	-@UPTO	
1	37739-30010		COOLER ASSY,OIL	1					
101	37739-10101		ELEMENT,OIL COOLER	2					
102	37739-20300		COVER	1					
103	F2300-10000		NUT	8					A
104	F2515-10000		WASHER,SPRING	8					A
105	F2500-10000		WASHER,PLAIN	8					A
106	MH035626		O-RING	4					A
107	MH035092		O-RING	8					A
108	ME064526		PLUG	3					A
109	MH035093		O-RING	3					A
2	37507-00701		PLATE,NOZZLE	1					
3	05507-00340		O-RING	1					A
4	37739-00200		PACKING,OIL COOLER	1					A
5	F3150-04400		O-RING	1					A
6	F1805-12035		BOLT,W/WASHER B/W	18					A
7	F2500-12000		WASHER,PLAIN	18					A
8	F4540-08000		CONNECTOR	1					

# 40-01 OIL FILTER

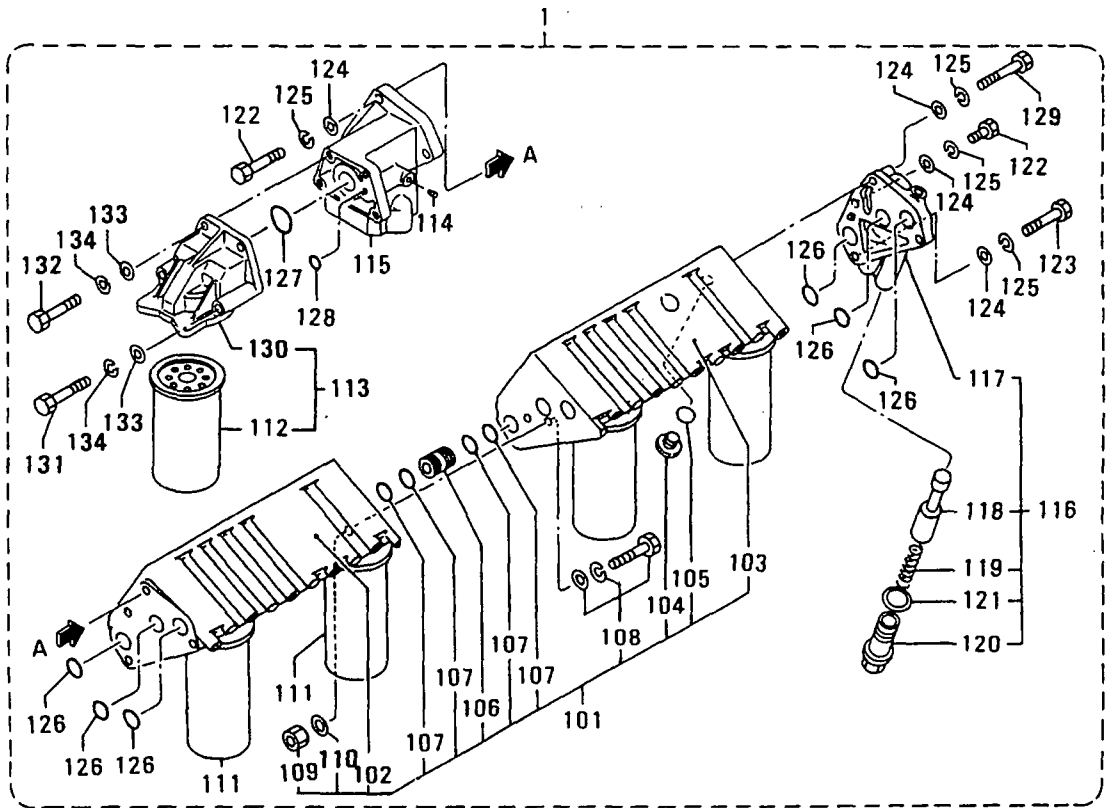
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40-01 OIL FILTER

REF NO.	PART NO.	RIS /P C /Q G	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		M /R /D
				PTAA2			FROM@-	-@UPTO	
1	37739-12200		GASKET,OIL COOLER	1					
2	37739-12100		ELEMENT,OIL COOLER	2					
3	37739-12300		PLATE,OIL COOLER L.H	1					
4	F3156-03000		O-RING	4					A
5	05507-00140		O-RING	8					A
6	F2440-10000		NUT,SELF LOCKING	8					A
7	F2515-10000		WASHER,SPRING	8					A
8	F1035-12025		BOLT	3					A
9	F2515-12000		WASHER,SPRING	3					A
0	F3156-03000		O-RING	4					A
1	MH000183		BOLT	8					A
2	MH000184		BOLT	2					A
3	F1035-12100		BOLT	8					A
4	F1035-12130		BOLT	2					A
5	F2515-12000		WASHER,SPRING	20					A
6	F2500-12000		WASHER,PLAIN	20					A
7	37740-00700		COUPLING	1					
8	F3156-03500		O-RING	4					A
	04442-15001		ALARM,OIL FILTER	1					
	F4540-06300		CONNECTOR	1					
21	F4540-08000		CONNECTOR	1					
22	37736-24300		PIPE,BY-PASS DRAIN	1					

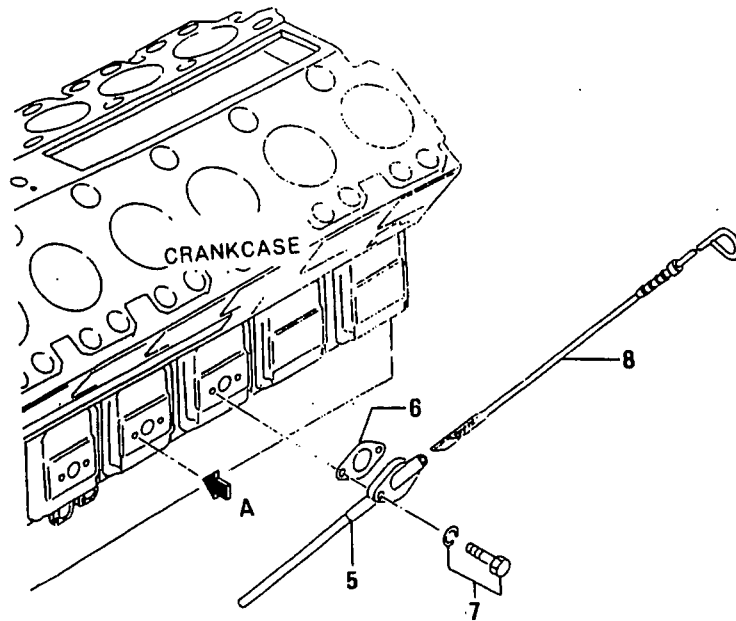
### 40-02 OIL FILTER ASSY (PAPER-ELEMENT TYPE)



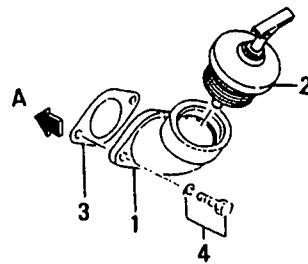
40-02 OIL FILTER ASSY  
(PAPER-ELEMENT TYPE)

- 59-

REF. NO.	PART NO.	RSC P/EN PGG	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		MV RD
				PTAA2			FROM@-	-@UPTO	
1	37740-40011		FILTER ASSY,OIL	1					
101	37740-45101		BRACKET ASSY	1					
102	*		BRACKET SUB ASSY	1					
103	*		BRACKET SUB ASSY	1					
104	37740-17112		CAP, VALVE	5					
105	37740-17113		O-RING	5					A
106	37740-01700		COUPLING	3					
107	F3156-03500		O-RING	12					A
108	F1825-08025		BOLT,W/WASHER B/W	2					A
109	F2300-08000		NUT	2					A
110	F2500-08000		WASHER, PLAIN	2					A
111	37540-01101		ELEMENT, CARTRIDGE	4					
112	37540-02100		ELEMENT, CARTRIDGE	1					
113	37740-06010		FILTER ASSY, BY-PASS	1					A
114	F5005-10001		PLUG, TAPERED	3					
115	37740-55400		ADAPTER ASSY	1					
116	37740-50300		ADAPTER ASSY	1					
117	*		BODY ASSY	1					
118	37740-50312		VALVE,OIL RELIEF	1					
119	37740-50313		SPRING, VALVE	1					A
120	37740-50314		CAP	1					
121	37740-50315		PACKING	1					A
122	F1035-10040		BOLT	6					A
123	F1035-12070		BOLT	1					A
124	F2500-12000		WASHER, PLAIN	2					A
125	F2515-12000		WASHER, SPRING	2					A
126	F3156-04000		O-RING	6					A
127	F3156-03500		O-RING	1					A
128	F3150-01100		O-RING	1					A
129	F1035-12080		BOLT	1					A
130	*		BRACKET	1					
131	F1035-10090		BOLT	2					A
132	F1035-10030		BOLT	2					A
133	F2500-10000		WASHER, PLAIN	10					A
134	F2515-10000		WASHER, SPRING	10					A

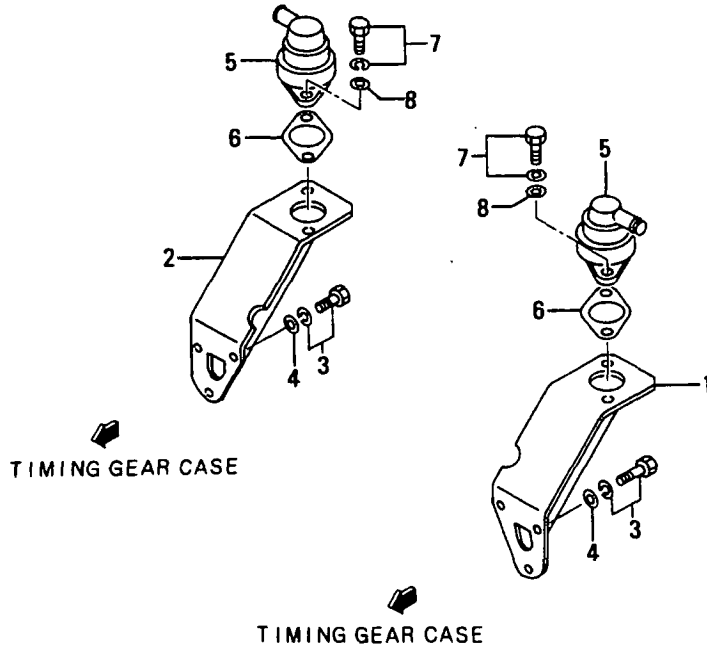


FORWARD





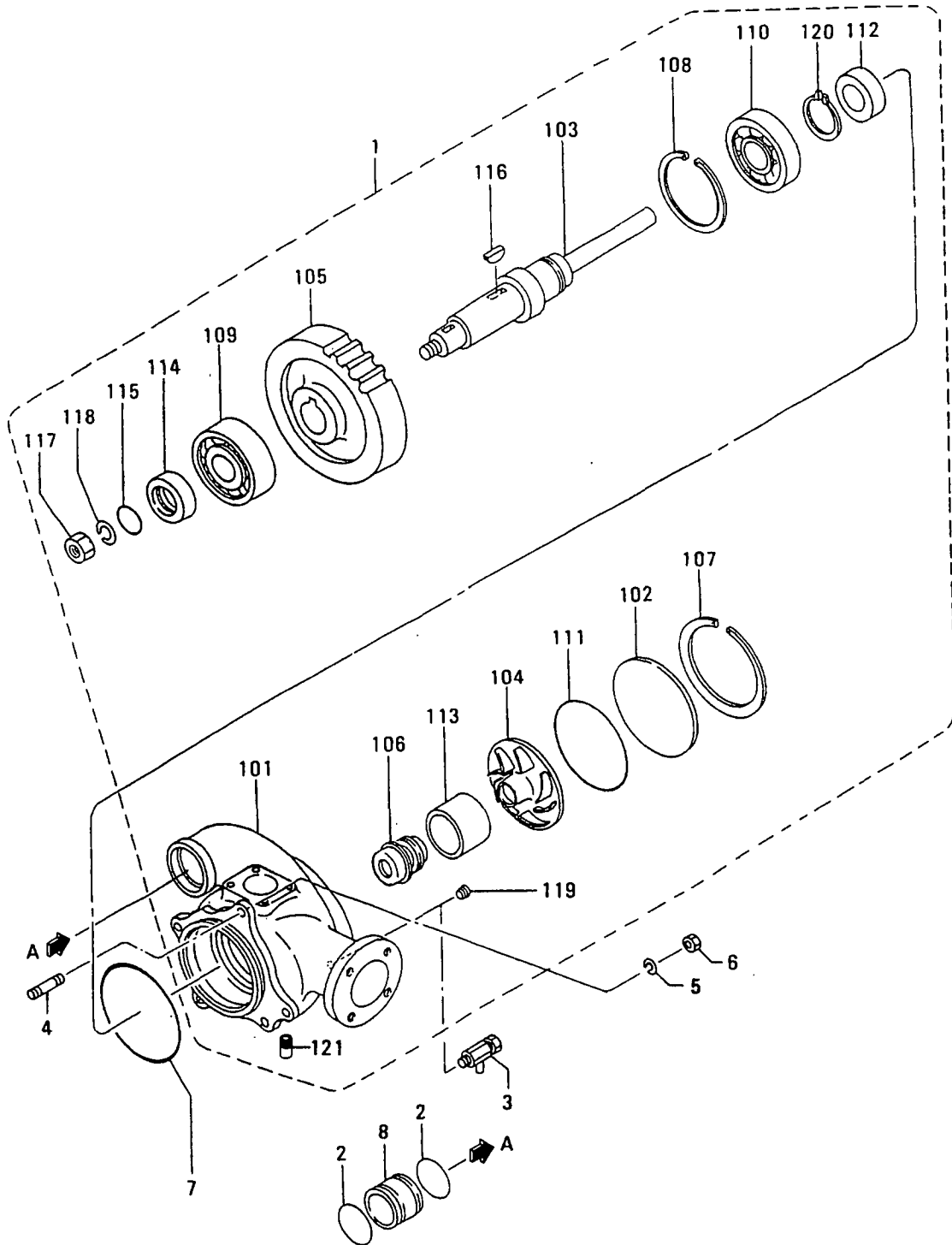
43 BREATHER





45 WATER PUMP

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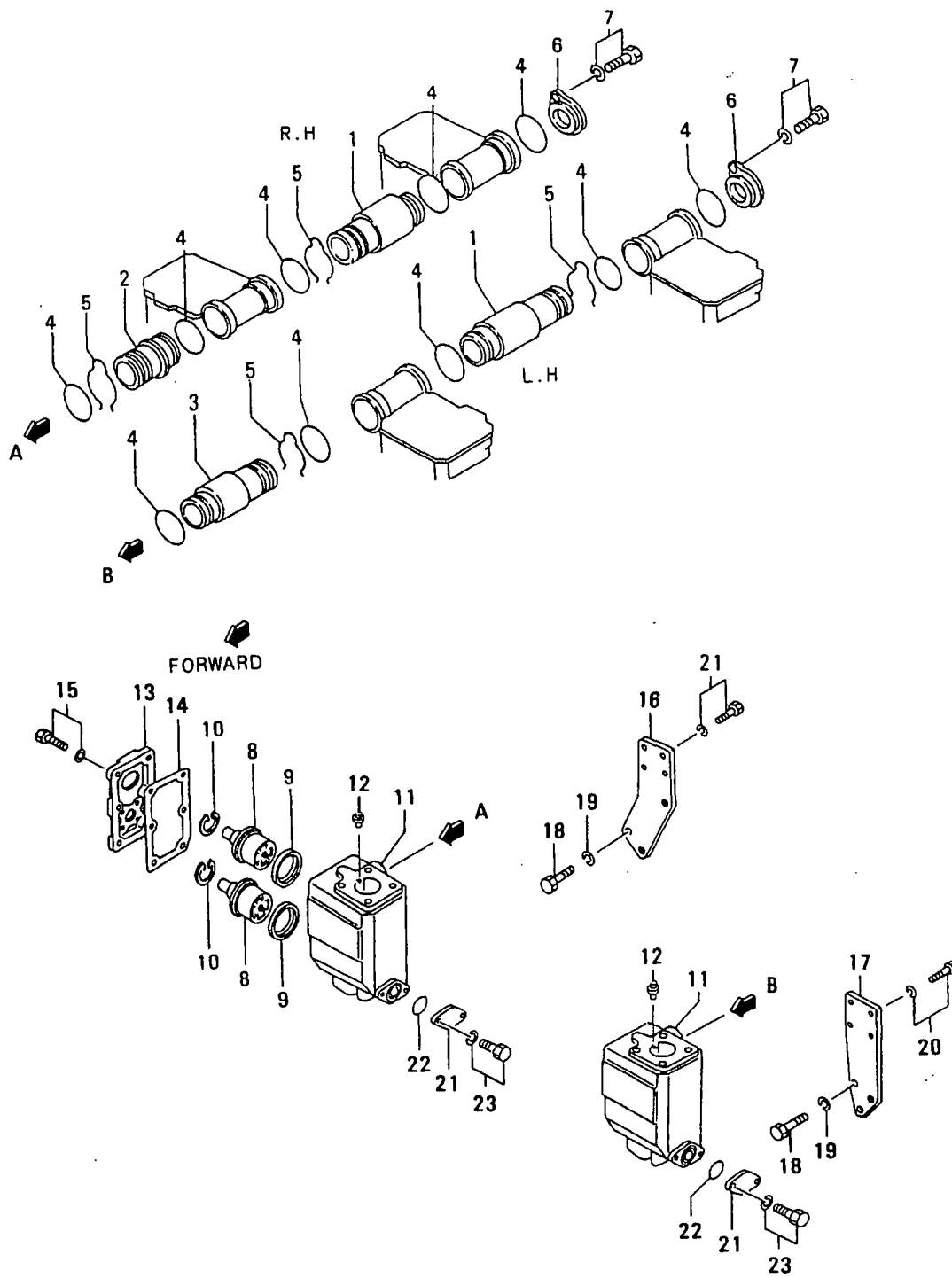
45 WATER PUMP

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REF. NO.	PART NO.	R P Q S C E N G	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		M V R D
				PTAA2			FROM@-	-@UPTO	
1	37745-40011		PUMP ASSY, WATER	1					
101	*		CASE, WATER PUMP	1					
102	37545-00200		COVER, WATER PUMP	1					
103	37745-20400		SHAFT, WATER PUMP	1					
104	37745-20501		IMPELLER	1					A
105	37725-02200		GEAR, HEAD Z=41	1					
106	37145-16200		SEAL, UNIT	1					A
107	37545-00300		RING, SNAP	1					A
108	F3202-12000		RING, SNAP	1					A
109	F8010-06310		BEARING, BALL	1					A
110	F8010-06311		BEARING, BALL	1					A
111	F3153-17000		O-RING	1					A
112	37525-03400		SEAL, OIL	1					A
113	37745-10600		RING	1					
114	37745-10700		SLEEVE	1					
115	F3156-05000		O-RING	1					A
116	F2870-10032		KEY, WOODRUFF	1					
117	F2325-30000		NUT, JAM	1					A
118	F2515-30000		WASHER, SPRING	1					A
119	F5005-10001		PLUG, TAPERED	1					A
120	F3200-05500		RING, SNAP	1					A
121	30445-00800		PIPE	1					
2	F3153-10500		O-RING	2					A
3	32545-12900		COCK, WATER DRAIN	1					
4	05977-12060		STUD	3					
5	F2515-12000		WASHER, SPRING	3					A
6	F2300-12000		NUT	3					A
7	F3156-16000		O-RING	1					A
8	37746-00400		JOINT	1					

# 46-01 COOLING SYSTEM (PART-1)

- 66-



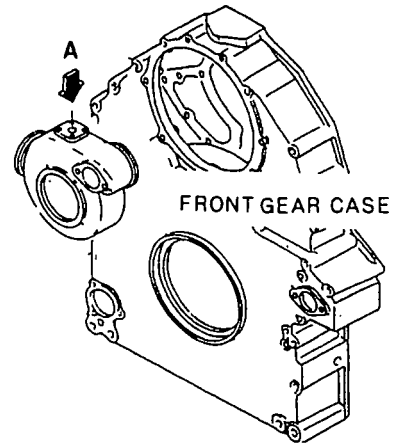
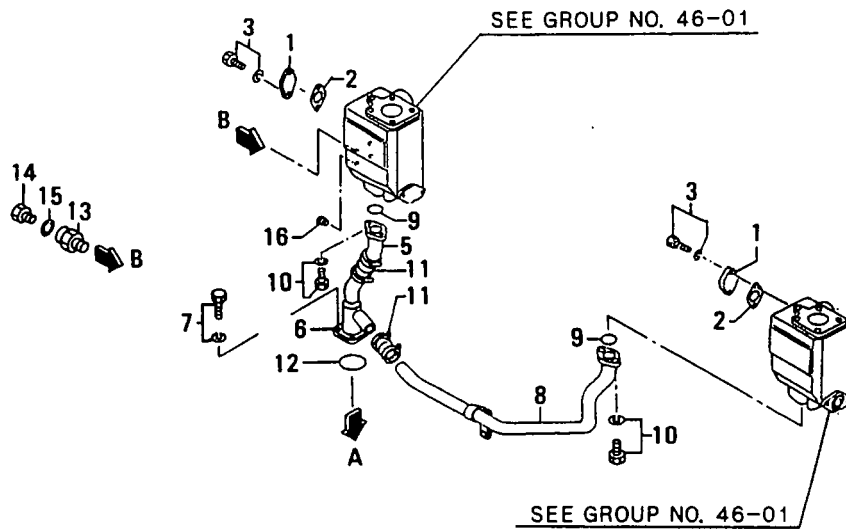
46-01 COOLING SYSTEM(PART-1)

- 67-

REF. NO.	PART NO.	RSC ENG PAGE	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		MVRD
				PTAA2			FROM@-	-@UPTO	
1	37746-01100		CONNECTOR	14					
2	37746-01200		CONNECTOR, R.H	1					
3	37746-01300		CONNECTOR, L.H	1					
4	F3153-06500		O-RING	34					A
5	37546-11300		RING, SNAP	16					A
6	37546-11200		COVER	2					
7	F1805-10020		BOLT, W/WASHER B/W	2					A
8	37546-21700		THERMOSTAT	4					
9	37546-01800		SEAL, THERMOSTAT	4					
10	37546-00900		RING, SNAP	4					A
11	37546-13700		CASE, THERMOSTAT	2					
12	36646-00090		VALVE ASSY, JIGGLE	2					
13	37546-17100		COVER, THERMOSTAT	2					
14	37546-13300		PACKING, COVER	2					
15	F1805-10030		BOLT, W/WASHER B/W	12					A
16	37746-13401		BRACKET, THERMO, R.H	1					
17	37746-13501		BRACKET, THERMO, L.H	1					
18	F1035-16040		BOLT	6					A
19	F2515-16000		WASHER, SPRING	6					A
20	F1805-10035		BOLT, W/WASHER B/W	8					A
21	37546-03500		COVER	2					
22	F3153-06000		O-RING	2					A
23	F1805-10030		BOLT, W/WASHER B/W	4					A

46-02 COOLING SYSTEM (PART-2)

- 68-



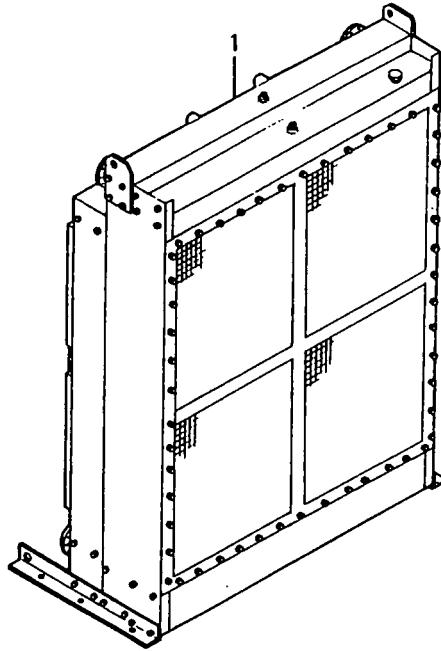
46-02 COOLING SYSTEM(PART-2)

- 69-

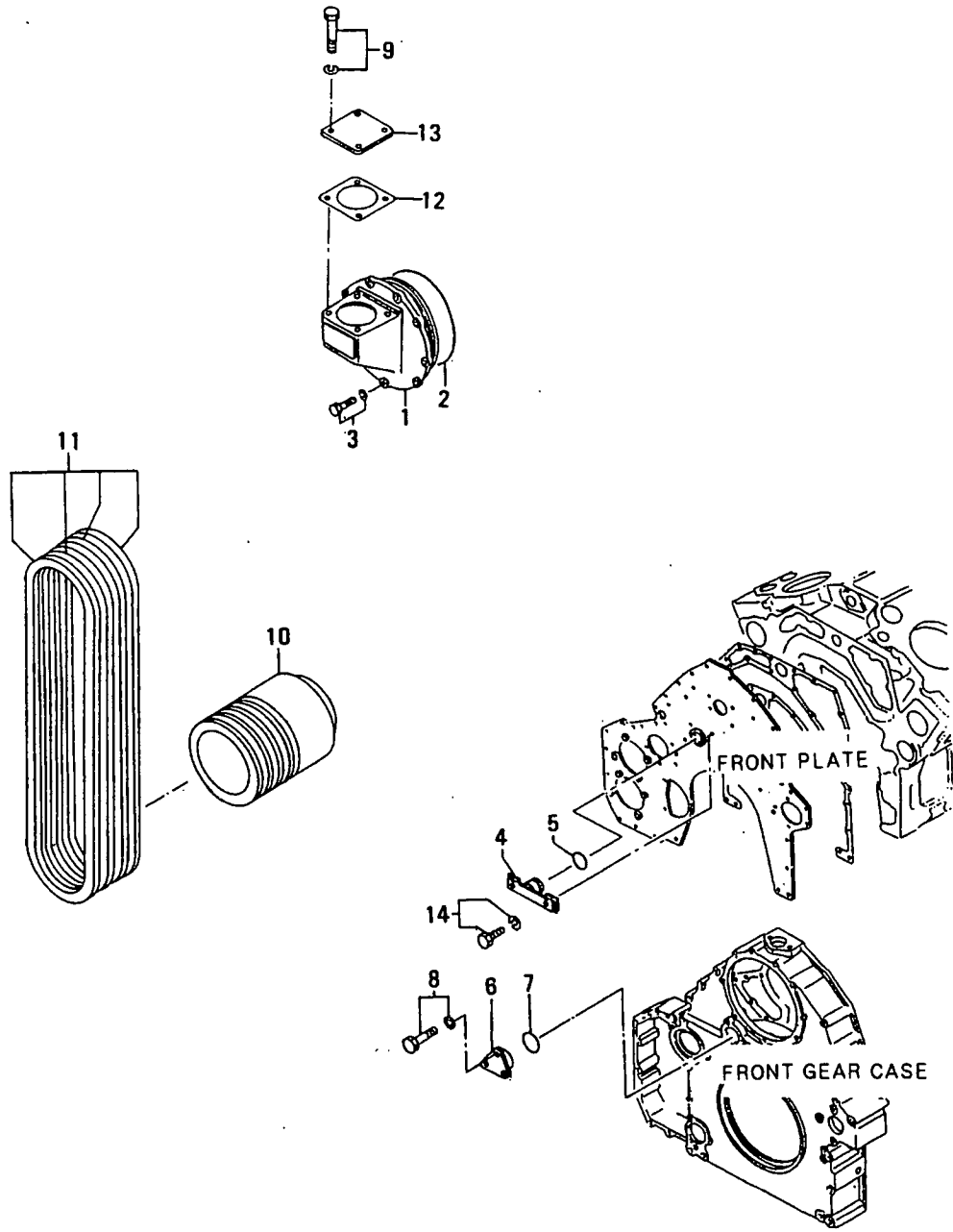
REF. NO.	PART NO.	R/S P/ Q B/C G/Z	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		M/V R/D
				PTAA2			FROM@-	-@UPTO	
1	33546-06900		COVER	2					
2	32546-36800		GASKET	2					A
3	F1805-12030		BOLT,W/WASHER B/W	2					A
4	F1805-12030		BOLT,W/WASHER B/W	2					A
5	37746-24300		PIPE,BY-PASS,R.H	1					
6	37746-04800		PIPE,BY-PASS,R.H	1					
7	F1805-10025		BOLT,W/WASHER B/W	4					A
8	37746-04400		PIPE,BY-PASS	1					
9	F3153-06000		O-RING	2					A
10	F1805-10025		BOLT,W/WASHER B/W	4					A
11	04826-40032		COUPLING	2					
12	F3150-07000		O-RING	1					A
13	45600-42901		CONNECTOR	1					
14	F5000-16000		PLUG,DRAIN	1					A
15	05946-01601		WASHER, SEALING	1					A
16	F5005-21001		PLUG, TAPERED	6					A

47 RADIATOR

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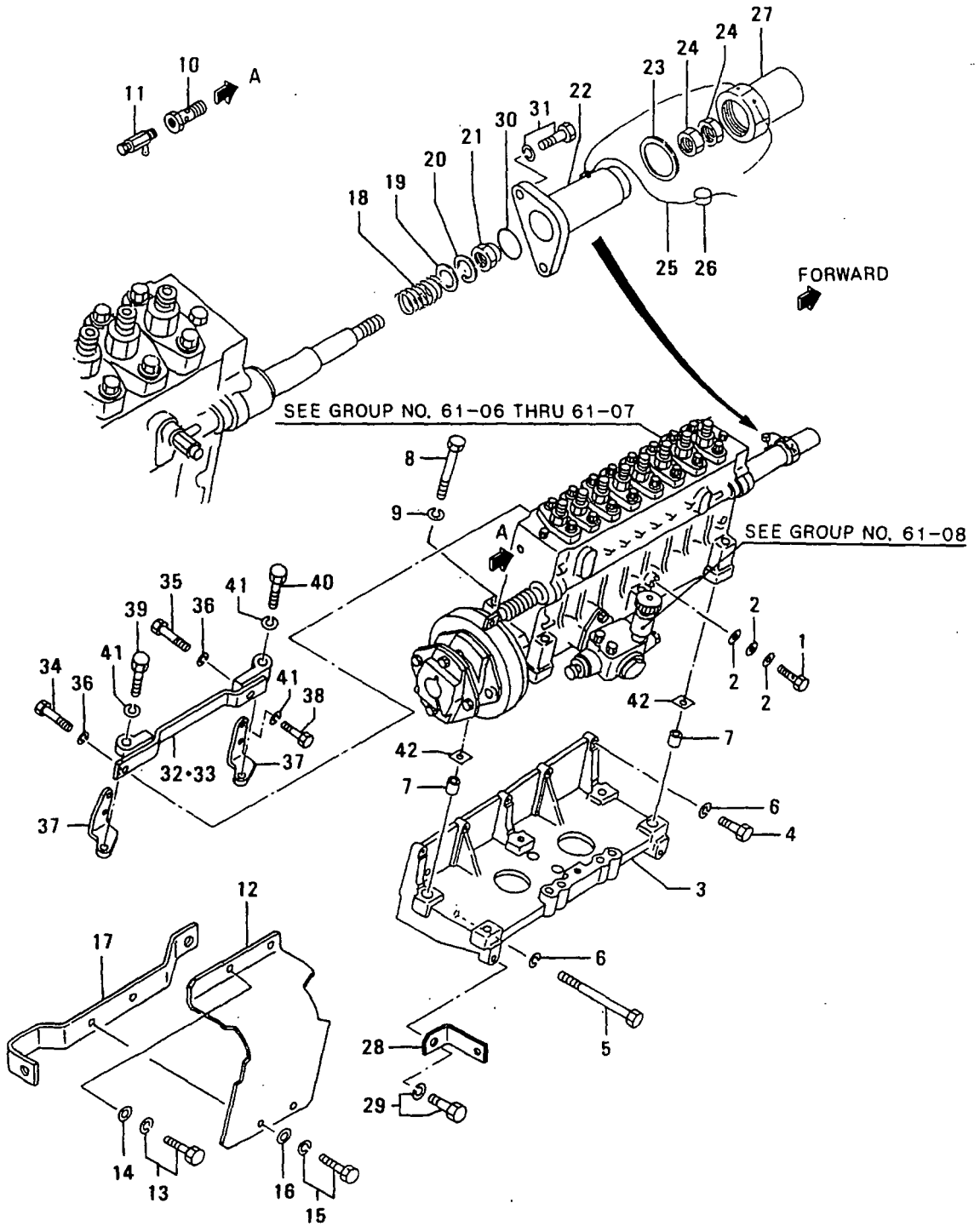




REF. NO.	PART NO.	RISC EN P QG	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		MV RD
				PTAA2			FROM@-	-@UPTO	
1	37743-30100		BRACKET, BREATHER	1					
2	F3153-29000		O-RING	1					A
3	F1805-12030		BOLT, W/WASHER B/W	9					A
4	37748-11600		PLUG, CASE	1					
5	F3153-04500		O-RING	1					A
6	34A25-04400		FLANGE	1					
7	F3153-06000		O-RING	1					A
8	F1805-12030		BOLT, W/WASHER B/W	3					A
9	F1805-12025		BOLT, W/WASHER B/W	4					A
10	37720-03100		PULLEY, CRANKSHAFT	1					
11	37748-08200		V-BELT, FAN DRIVE W=22 L=3150	1					
12	04829-70800		GASKET	1					A
13	41255-30700		SPACER	1					
14	F1805-12040		BOLT, W/WASHER B/W	2					A

# 61-01 FUEL INJECTION PUMP GENERAL

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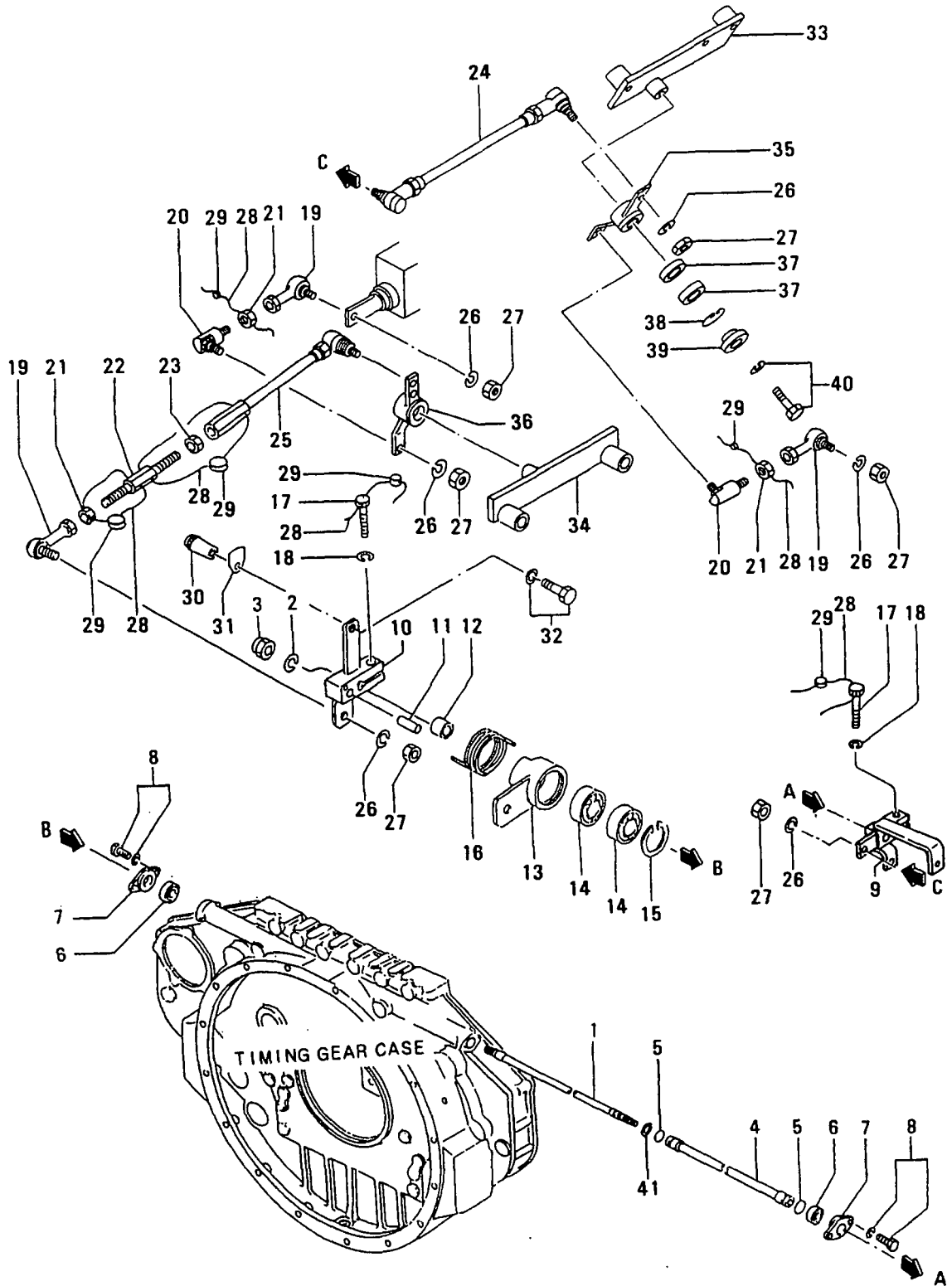
61-01 FUEL INJECTION PUMP GENERAL

- 75-

REF. NO.	PART NO.	R/P Q/PS G/NC	PART NAME & DESCRIPTION	MODEL & QTY			APPLICABLE SERIAL NO.		M/R RD
				PTAA2			FROM@-	-@UPTC	
1	37136-09100		BOLT, EYE	2					A
2	05946-01201		WASHER, SEALING	6					A
3	37861-31100		BRACKET, INJ PUMP	2					A
4	F1035-12050		BOLT	10					A
5	F1035-12130		BOLT	8					A
6	F2515-12000		WASHER, SPRING	18					A
7	37561-01800		PIN, DOWEL	4					A
8	F1035-12110		BOLT	12					A
9	F2515-12000		WASHER, SPRING	12					A
10	48230-05100		BOLT, EYE	2					A
11	31262-51901		COCK, AIR VENT	2					A
12	37761-61700		COVER, COUPLING	2					A
13	F1805-12020		BOLT, W/WASHER B/W	4					A
14	F2500-12000		WASHER, PLAIN	4					A
15	F1805-10016		BOLT, W/WASHER B/W	4					A
16	F2500-10000		WASHER, PLAIN	4					A
17	37761-11800		STAY	2					A
18	37561-11900		SPRING, RETURN	2					A
	F2500-10000		WASHER, PLAIN	2					A
	F2515-10000		WASHER, SPRING	2					A
21	F2445-10000		NUT, SELF LOCKING	2					A
22	37561-42800		CASE, SPRING	2					A
23	05946-02701		WASHER, SEALING	2					A
24	F2325-08000		NUT, JAM	4					A
25	34461-07700		WIRE, SEAL	2					A
26	48000-96600		SEAL	2					A
27	37561-22901		CAP, RACK SET	2					A
28	37762-13100		STAY, PIPE	1					A
29	F1805-12030		BOLT, W/WASHER B/W	1					A
30	05507-00360		O-RING	2					A
31	F1805-08020		BOLT, W/WASHER B/W	4					A
32	37861-11500		STAY, INJ PUMP, R.H	1					A
33	37861-11600		STAY, INJ PUMP, L.H	1					A
34	F1035-14030		BOLT	3					A
35	F1035-14040		BOLT	1					A
36	F2515-14000		WASHER, SPRING	4					A
37	37761-21600		STAY, INJ PUMP	4					A
38	F1035-12030		BOLT	8					A
39	F1035-12040		BOLT	3					A
40	F1035-12050		BOLT	1					A
41	F2515-12000		WASHER, SPRING	12					A
42	37561-00500		SHIM	6					A

# 61-02 FUEL RACK CONTROL

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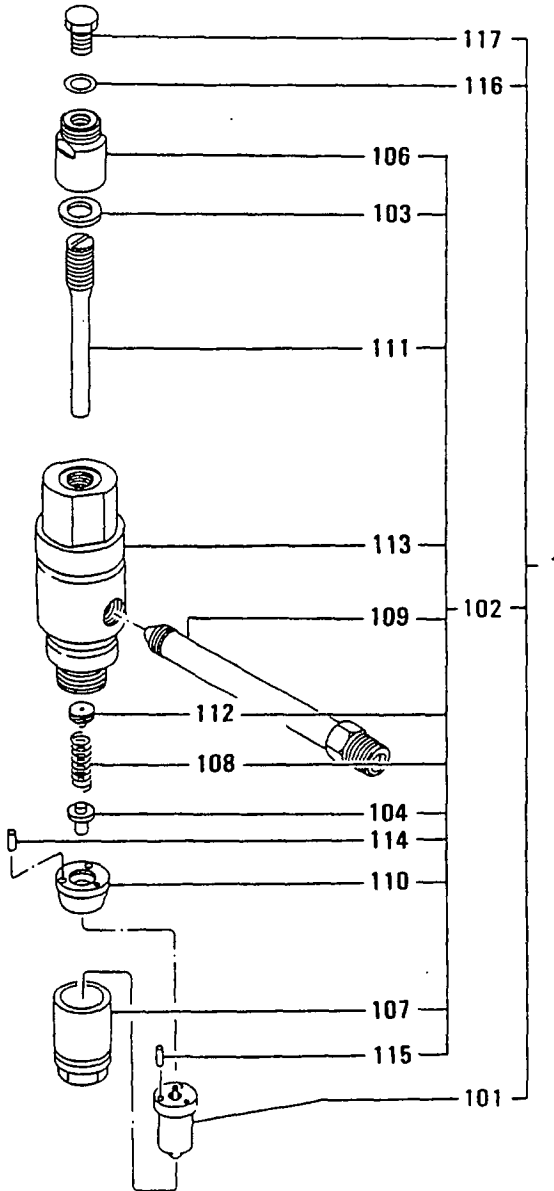


61-02 FUEL RACK CONTROL

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REF. NO.	PART NO.	R/S P/Q	DESC G	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		M/V R/D
					PTAA2			FROM@-	-@UPTO	
1	37761-17100			SHAFT, CONTROL	1					
2	F2515-10000			WASHER, SPRING	1					A
3	F2445-10000			NUT, SELF LOCKING	1					A
4	37761-06200			PIPE	1					
5	05507-00220			O-RING	2					A
6	F8007-06203			BEARING, BALL	2					A
7	37461-00500			COVER, BEARING	2					
8	F1805-08016			BOLT, W/WASHER	4					A
9	37761-08400			LEVER, R.H	1					
0	37761-47200			LEVER, L.H	1					
1	F2846-06000			PIN, DOWEL	1					A
2	91365-03200			SPACER	1					
3	37761-57300			LEVER, L.H	1					
4	F8007-06201			BEARING, BALL	2					A
5	F3202-03200			RING, SNAP	1					A
6	32561-48600			SPRING	1					A
7	F1115-08025			BOLT	2					A
8	F2515-08000			WASHER, SPRING	2					A
	35A61-28600			JOINT, BALL	3					A
0	37563-05400			JOINT, BALL	2					A
1	33063-11400			NUT	5					A
2	42061-21800			ROD	1					
3	09413-00800			NUT, LOCK	1					A
4	37761-18700			LINK, R.H	1					
5	37761-18800			LINK, L.H	1					
6	F2515-08000			WASHER, SPRING	8					A
7	F2300-08000			NUT	6					A
8	34461-07700			WIRE, SEAL	6					
9	48000-96600			SEAL	6					A
0	51776-03000			GRIP	1					
1	45940-30100			PLATE, CAUTION	1					
2	F1805-08020			BOLT, W/WASHER	1					A
3	37761-17501			BRACKET, LEVER, R.H	1					
4	37761-17600			BRACKET, LEVER, L.H	1					
5	37761-07700			LEVER, LINK, R.H	1					
6	37761-17800			LEVER, LINK, L.H	1					
7	F8007-06200			BEARING, BALL	4					A
8	F3202-03000			RING, SNAP	2					A
9	32561-18300			PLATE, END	2					
0	F1805-10040			BOLT, W/WASHER	2					A
1	F3200-01700			RING, SNAP	1					A

61-03 NOZZLE ASSY (SPRAY HOLE  
DIAMETER: 0.35MM)



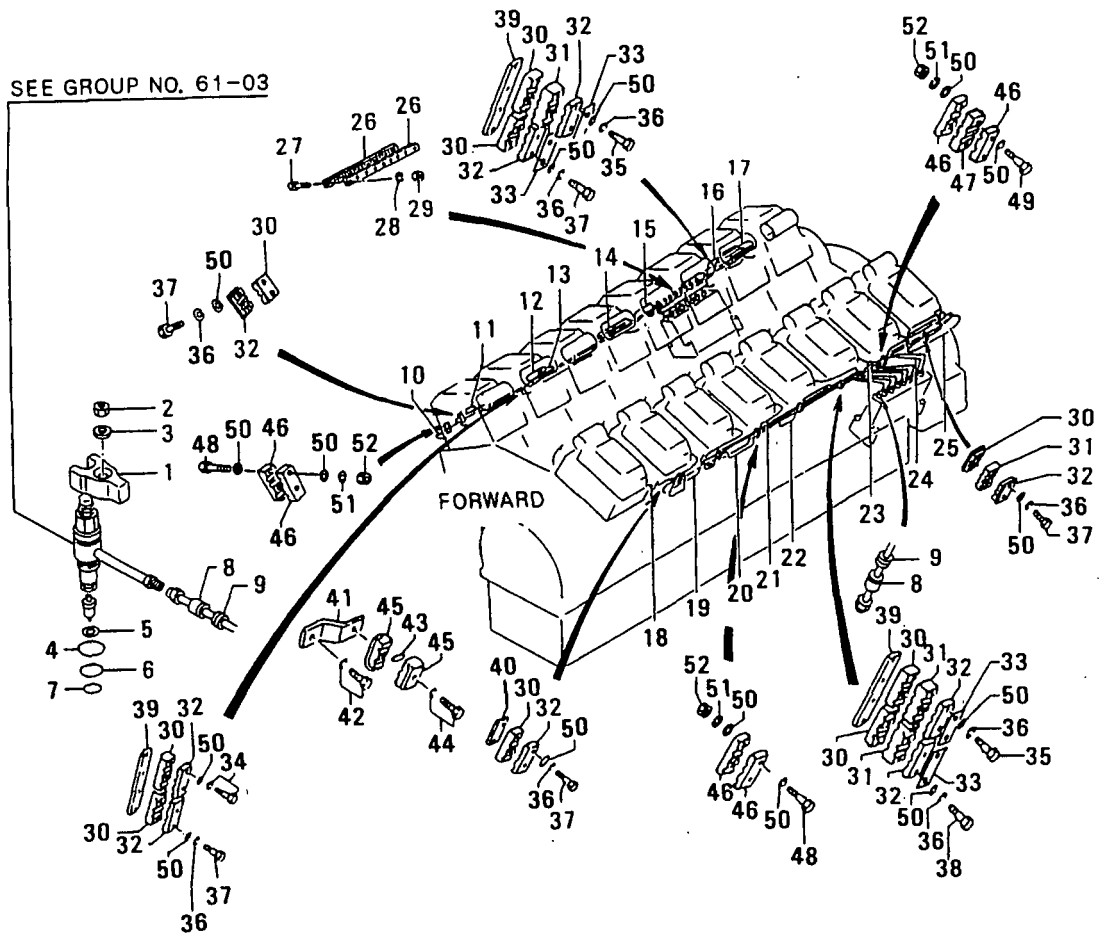
61-03 NOZZLE ASSY (SPRAY HOLE  
DIAMETER: 0.35MM)

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EF. NO.	PART NO.	R/S P/Q	PART NAME & DESCRIPTION	MODEL & QTY			APPLICABLE SERIAL NO.		M/V R/D
				PTAA2			FROM@-	-@UPTO	
1	37561-97000		NOZZLE ASSY	16					
101	37561-17100		TIP ASSY, NOZZLE	16					A
102	37561-97010		HOLDER ASSY, NOZZLE	16					
103	05946-01401		WASHER, SEALING	16					A
104	37161-21612		ROD, PUSH	16					
106	37561-16600		NUT, CAP	16					
107	37561-16300		NUT, RETAINING	16					
108	37561-26400		SPRING, NOZZLE	16					
109	37561-46700		CONNECTOR, INLET	16					
110	37561-67013		SPACER, NOZZLE	16					
111	37561-46500		SCREW, ADJUSTING	16					A
112	37561-09300		SEAT, SPRING	16					
113	37561-76100		BODY, NOZZLE HOLDER	16					
114	F8001-30014		BEARING, ROLLER	32					A
115	F8001-40014		BEARING, ROLLER	32					A
116	05946-01001		WASHER, SEALING	16					A
117	33407-03900		SCREW, SET	16					

61-04 FUEL SYSTEM (PART-1)

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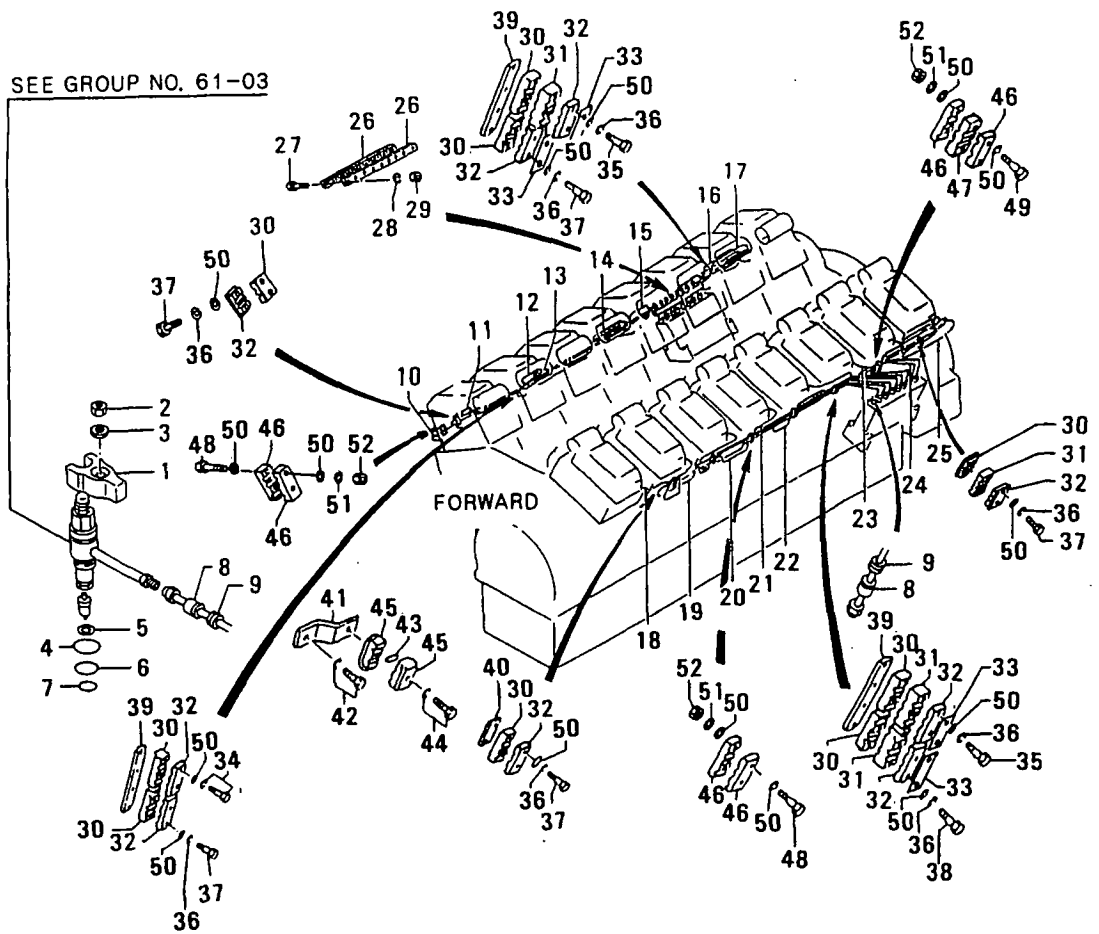
## 61-04 FUEL SYSTEM(PART-1)

- 81-

REF. NO.	PART NO.	RSC / ENG / P / OG	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		M/R / RD
				PTAA2			FROM@-	-@UPTO	
1	37561-01602		GLAND, NOZZLE	16					
2	F2305-14000		NUT	16					A
3	33561-14500		WASHER	16					A
4	F3150-04200		O-RING	16					A
5	37561-16800		GASKET, NOZZLE	16					A
6	F3150-03400		O-RING	16					A
7	F3150-02600		O-RING	16					A
8	37561-13500		COVER	32					
9	37561-13600		HOLDER	32					
0	37861-42100		PIPE, INJ NO.1	1					
1	37861-42200		PIPE, INJ NO.2	1					
2	37861-42300		PIPE, INJ NO.3	1					
3	37861-42400		PIPE, INJ NO.4	1					
4	37861-42500		PIPE, INJ NO.5	1					
5	37861-42600		PIPE, INJ NO.6	1					
6	37861-42700		PIPE, INJ NO.7	1					
7	37861-42800		PIPE, INJ NO.8	1					
8	37861-43100		PIPE, INJ NO.9	1					
	37861-43200		PIPE, INJ NO.10	1					
0	37861-43300		PIPE, INJ NO.11	1					
1	37861-43400		PIPE, INJ NO.12	1					
2	37861-43500		PIPE, INJ NO.13	1					
3	37861-43600		PIPE, INJ NO.14	1					
4	37861-43700		PIPE, INJ NO.15	1					
5	37861-43800		PIPE, INJ NO.16	1					
6	37861-01800		CLAMP	4					
7	F1035-08035		BOLT	18					A
8	F2515-08000		WASHER, SPRING	18					A
9	F2300-08000		NUT	18					A
0	37562-02900		CLAMP, PIPE	27					
1	37761-05300		SEAT, PIPE	19					
2	37562-03100		CLAMP, PIPE	27					
3	37562-15900		PLATE, CLAMP	27					
4	F1805-10055		BOLT, W/WASHER	2					A
5	F1035-10080		BOLT	22					A
6	F2515-10000		WASHER, SPRING	52					A
7	F1035-10065		BOLT	14					A
8	F1035-10090		BOLT	16					A
9	37761-03601		PLATE, CLAMP	12					
0	37761-03701		PLATE, CLAMP	3					
1	37761-08300		STAY, INJ PIPE	1					
2	F1805-10016		BOLT, W/WASHER	1					A
3	F2846-10000		PIN, DOWEL	1					A
4	F1805-06030		BOLT, W/WASHER	1					A
5	MHO21219		CLAMP	2					A
6	37562-03100		CLAMP, PIPE	18					
7	37761-05300		SEAT, PIPE	5					
8	F1035-10045		BOLT	8					A
9	F1035-10070		BOLT	10					A
0	F2500-10000		WASHER, PLAIN	36					A

61-04 FUEL SYSTEM (PART-1)

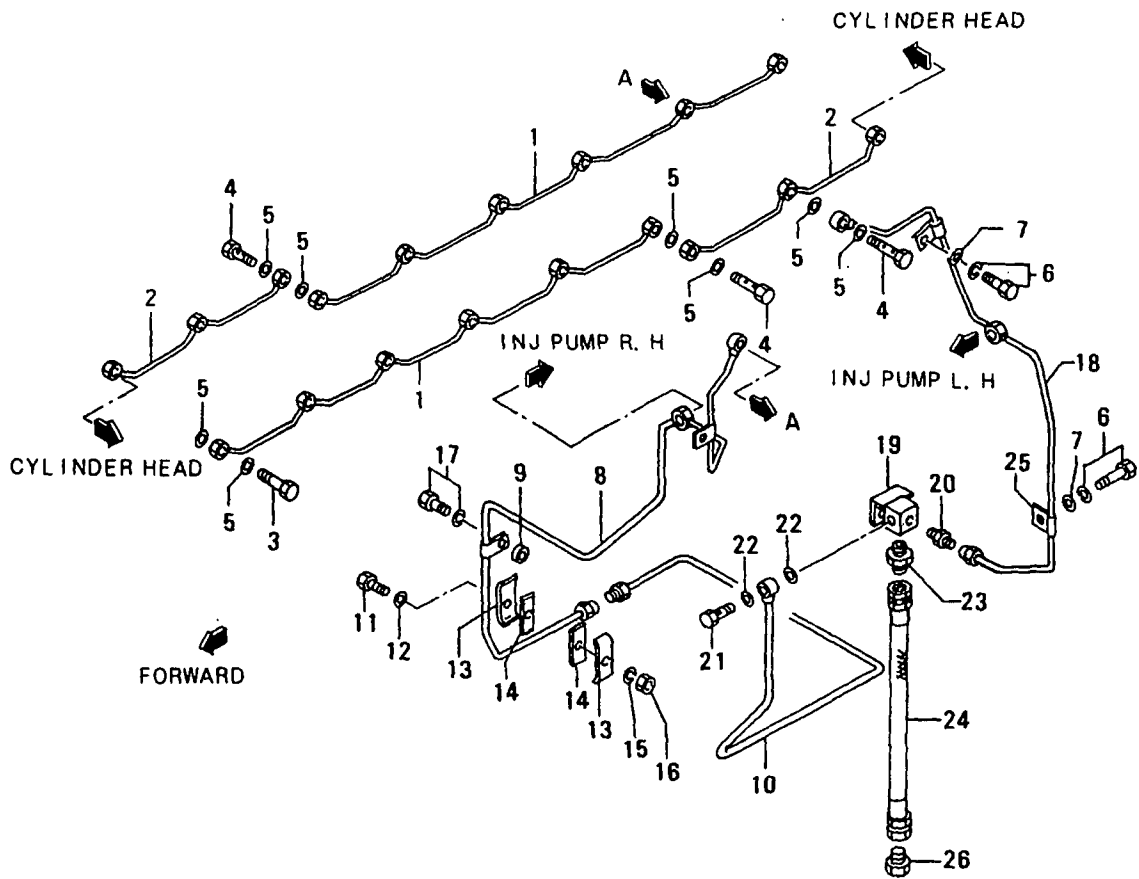
- 82-





61-05 FUEL SYSTEM (PART-2)

- 84-

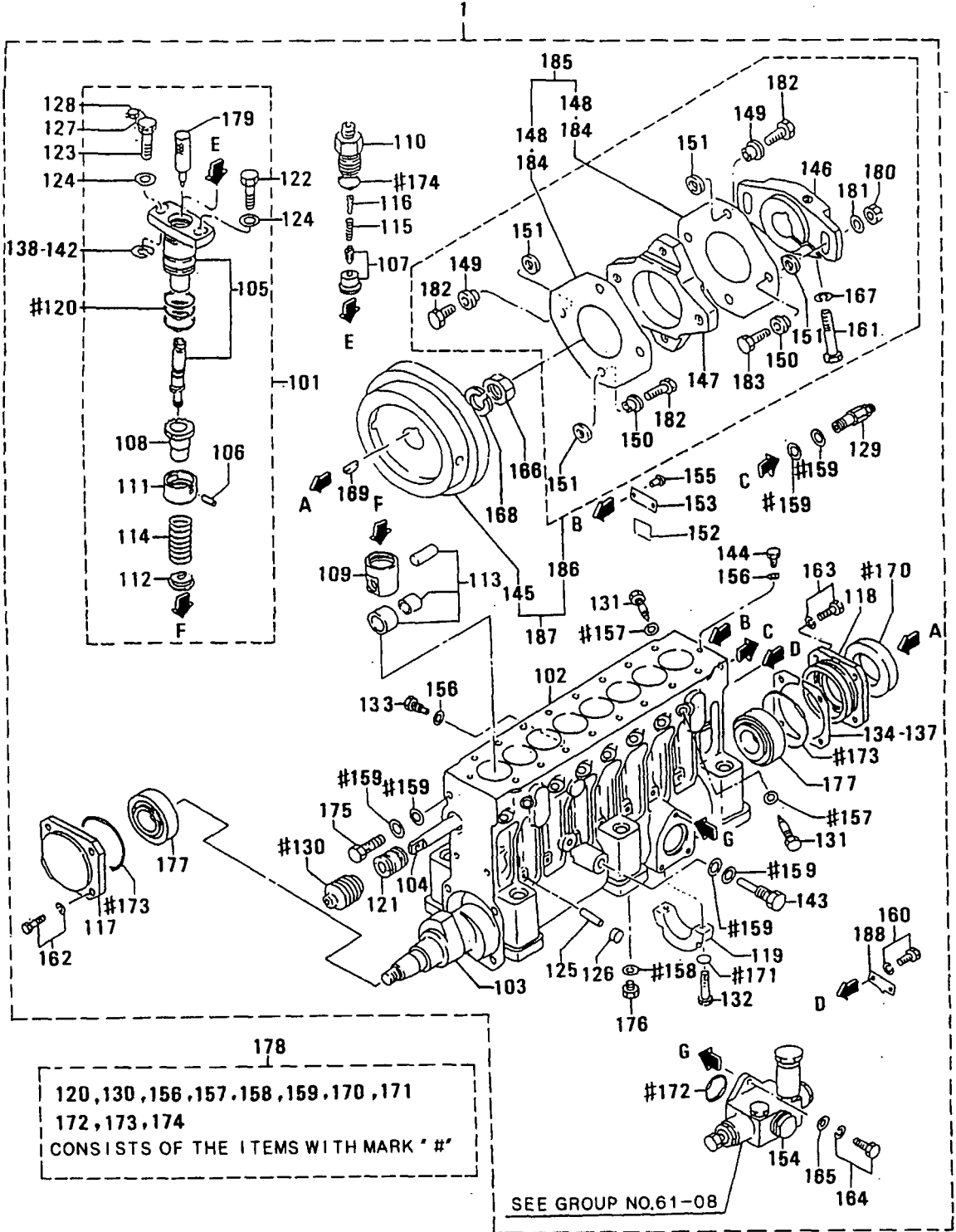


61-05 FUEL SYSTEM(PART-2)

- 85-

FF NO.	PART NO.	R P Q S C N G	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		M V R D
				PTAA2			FROM@-	-@UPTO	
1	37761-04100		PIPE,FUEL LEAK-OFF	2					
2	37861-04200		PIPE,FUEL-LEAK END	2					
3	32536-09400		BOLT,EYE	12					
4	34A36-26100		BOLT,EYE	4					A
5	05946-01001		WASHER, SEALING	36					A
6	F1805-10016		BOLT, W/WASHER B/W	2					A
7	F2500-10000		WASHER, PLAIN	2					A
8	37762-32500		PIPE, FUEL	1					
9	37736-01500		SPACER	1					
10	37762-12600		PIPE, FUEL LEAK-OFF	1					
11	F1035-10035		BOLT	5					A
12	F2500-10000		WASHER, PLAIN	5					A
13	37261-01700		CLAMP	10					A
14	37261-01800		SEAT	10					A
15	F2515-10000		WASHER, SPRING	5					A
16	F2300-10000		NUT	5					A
17	F1805-12020		BOLT, W/WASHER B/W	3					A
18	37762-12800		PIPE, FUEL	1					
19	37762-02900		CONNECTOR, LEAK	1					
20	F4540-10000		CONNECTOR	1					
21	F4610-14000		BOLT, EYE	1					A
22	05946-01401		WASHER, SEALING	2					A
23	F4540-20000		CONNECTOR	1					
24	45950-51700		PIPE, FLEXIBLE	1					
25	MH020431		CLIP	1					A
26	45950-11300		CONNECTOR	1					

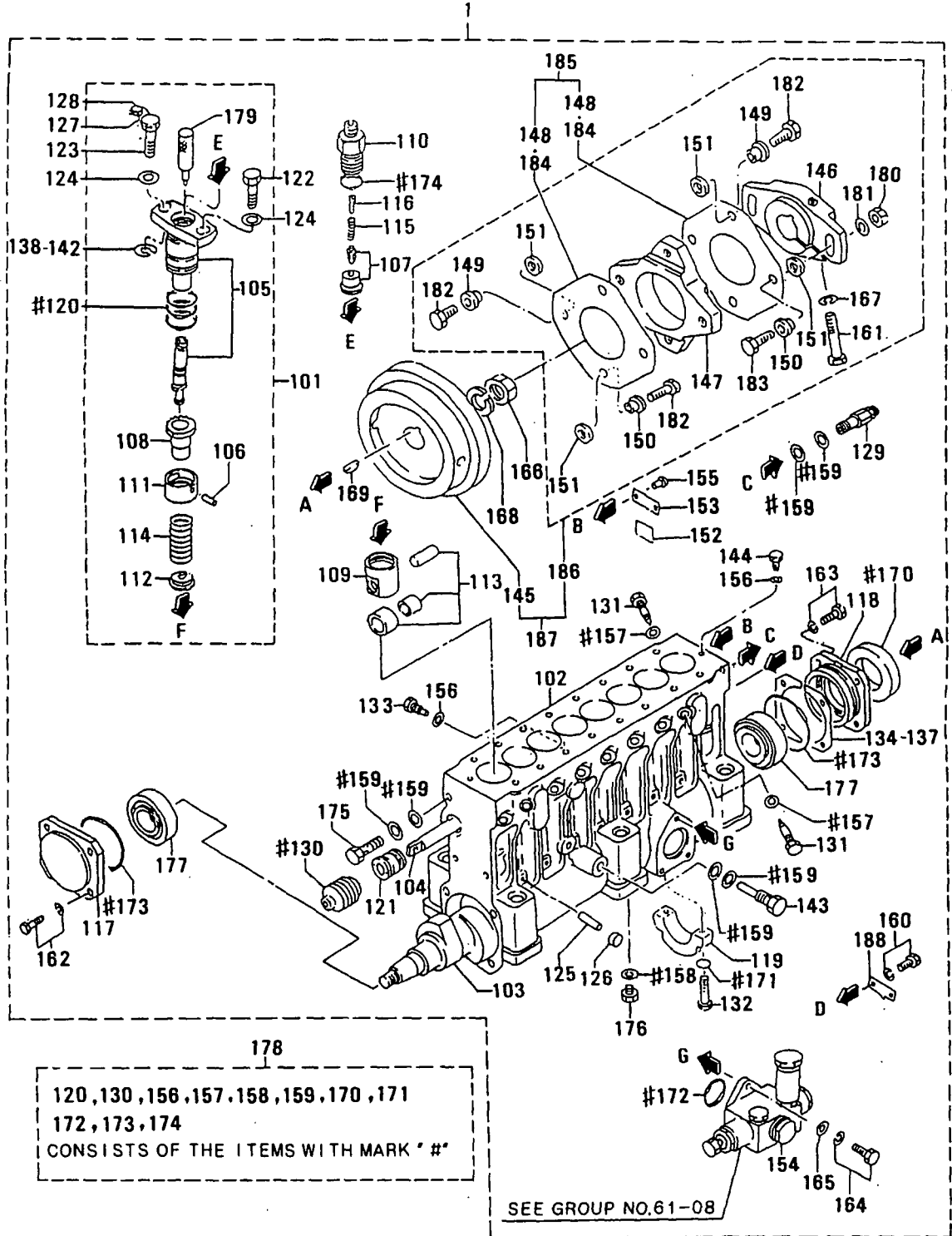
# 61-06 INJECTION PUMP R.H



61-06 INJECTION PUMP R.H

REF. NO.	PART NO.	RISC /ENGG	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		MIV /R RD
				PTAA2			FROM@-	-@UPTO	
1	48280-00000		PUMP ASSY, INJ	1					
101	48291-14001		BLOCK, TWIN PLUNGER	1					
102	48245-11100		CASE, INJ PUMP	1					
103	48213-30200		CAMSHAFT	1					
104	48213-20300		RACK	1					
105	*		PLUNGER ASSY	8					
106	*		PIN, KNOCK	8					
107	48230-13010		VALVE ASSY, DELIVERY	8					
108	48202-18100		PINION	8					
109	48202-35900		TAPPET	8					
110	48210-14100		HOLDER, VALVE	8					
111	48202-21201		SEAT, UPPER SPRING	8					
112	48202-21300		SEAT, LOWER SPRING	8					
113	48210-00030		TAPPET ASSY, ROLLER	8					
114	48202-11700		SPRING, PLUNGER	8					A
115	48202-01800		SPRING, VALVE	8					A
116	48202-01900		STOPPER	8					
117	48210-25600		COVER, FRONT	1					
118	48202-12200		COVER, REAR	1					
119	48202-02300		BEARING, CENTER	1					
120	48202-12400		O-RING	24					A
121	48202-22500		BUSHING, RACK	2					
122	48202-02600		BOLT, BARREL	8					
123	48202-07600		BOLT, BARREL	8					
124	48202-22800		WASHER, BARREL	16					
125	48202-02900		PIN	9					A
126	04826-21000		CAP, SEALING	9					
127	48202-05800		WIRE	1					
128	48000-96600		SEAL	1					A
129	48202-34000		VALVE ASSY, CHECK	1					
130	48202-13500		BELLOWS	1					
131	48202-33600		BOLT, DEFLECTOR	16					
132	48202-23800		BOLT	2					A
133	48202-33900		SCREW, SET	1					
134	48202-14100		SHIM, CASE	4	AR T=0.50				
135	48202-14200		SHIM, CASE	1	AR T=0.10				
136	48202-14300		SHIM, CASE	1	AR T=0.15				
137	48202-14400		SHIM, CASE	2	AR T=0.30				
138	48202-04500		SHIM, BARREL	1	AR T=0.80				
139	48202-04600		SHIM, BARREL	16	AR T=0.90				
140	48202-04700		SHIM, BARREL	1	AR T=1.00				
141	48202-04800		SHIM, BARREL	1	AR T=1.10				
142	48202-04900		SHIM, BARREL	1	AR T=1.30				
143	48202-05100		BOLT, EYE	1					A
144	48202-05500		BOLT, EYE	2					A
145	48208-20101		FLYWHEEL	1					
146	48208-11200		COUPLING	1					
147	48208-10301		COUPLING, CROSS	1					
148	48208-10400		PLATE, LAMINATE	12					
149	48208-50500		BUSHING, LONG	4					

61-06 INJECTION PUMP R.H



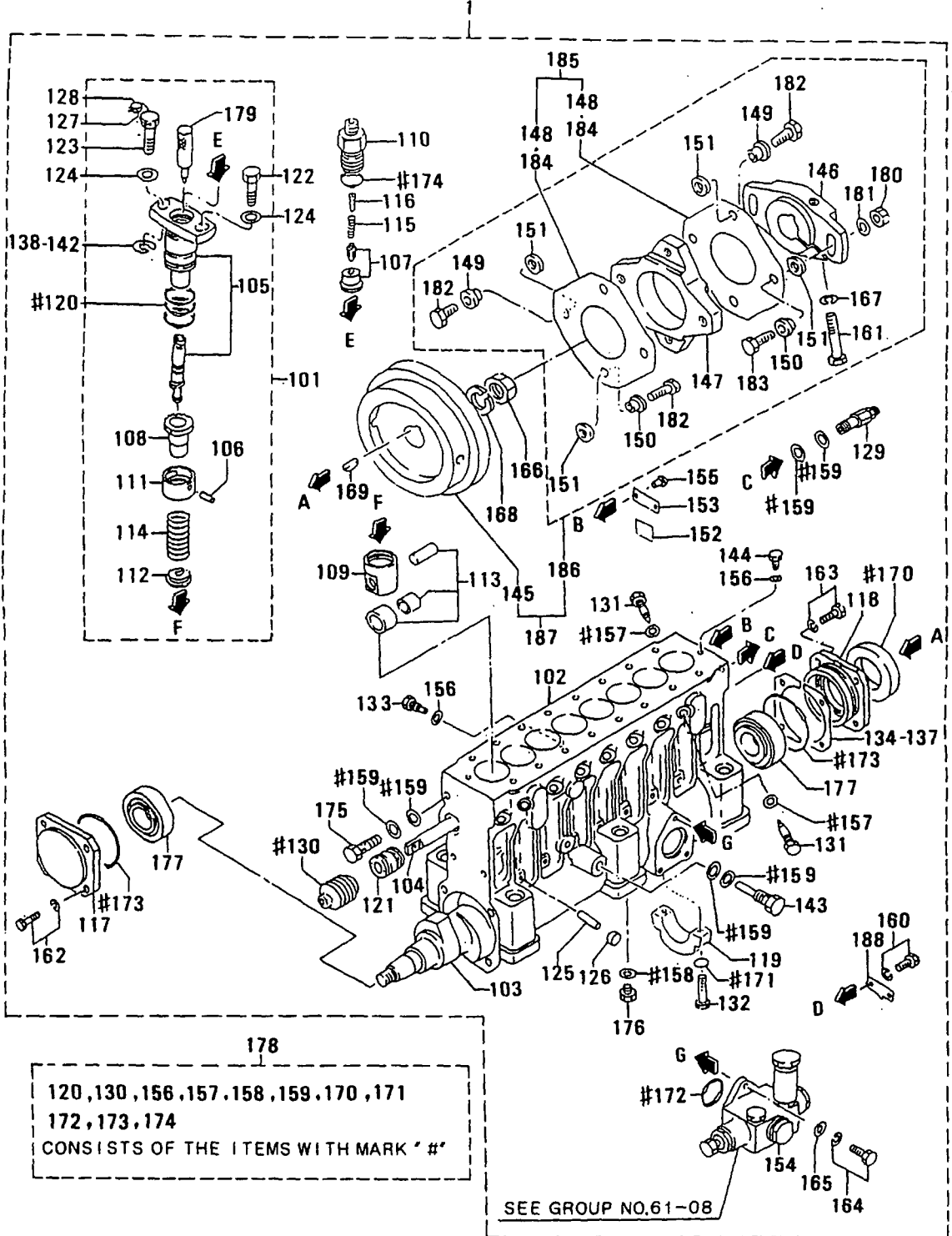
61-06 INJECTION PUMP R.H

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REF. NO.	PART NO.	R/S P/Q C/G	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		M/V R/D
				PTAA2			FROM@-	--@UPTO	
150	48208-50600		BUSHING, SHORT	4					
151	48208-30700		WASHER, COUPLING	8					
152	32598-24900		PLATE	1					
153	*		NAME-PLATE	1					
154	04245-00120		PUMP, FEED	1		SEE G/N 61-08			
155	00665-02048		RIVET, SCREW	2					
156	05946-00801		WASHER, SEALING	3					A
157	05946-01001		WASHER, SEALING	16					A
158	05946-01201		WASHER, SEALING	1					A
159	05946-01401		WASHER, SEALING	6					A
160	F1805-06012		BOLT, W/WASHER	2		B/W			A
161	F1035-14085		BOLT	1					A
162	F1805-08030		BOLT, W/WASHER	4		B/W			A
163	F1805-08025		BOLT, W/WASHER	4		B/W			A
164	F1805-06020		BOLT, W/WASHER	3		B/W			A
165	F2500-06000		WASHER, PLAIN	3					A
166	F2325-24000		NUT, JAM	1					A
167	F2515-14000		WASHER, SPRING	1					A
168	32507-01400		WASHER	1					A
169	F2870-07025		KEY, WOODRUFF	1					A
170	48202-07100		SEAL, OIL	1					A
171	05507-00080		O-RING	2					A
172	F3156-03500		O-RING	1					A
173	F3156-08000		O-RING	2					A
174	05507-20250		O-RING	8					A
175	48230-05100		BOLT, EYE	1					A
176	F5000-12000		PLUG, DRAIN	1					A
177	F8143-32207		BEARING	2					A
178	48202-29100		REPAIR KIT	1		CONSISTS OF "#"			A
179	48291-00301		HOLDER, PLUNGER	1					A
180	48250-05700		NUT, FLANGE	2					A
181	48250-05600		WASHER, BARREL	2					A
182	48250-05800		BOLT, SHORT	6					A
183	48250-05300		BOLT, LONG	2					A
184	48208-01400		PLATE, LAMINATE	4					A
185	48202-03010		PLATE KIT	1					A
186	48208-11020		COUPLING ASSY	1					A
187	48208-02020		COUPLING ASSY	1					A
188	48202-09500		POINTER	1					A

61-07 INJECTION PUMP L.H

- 90-

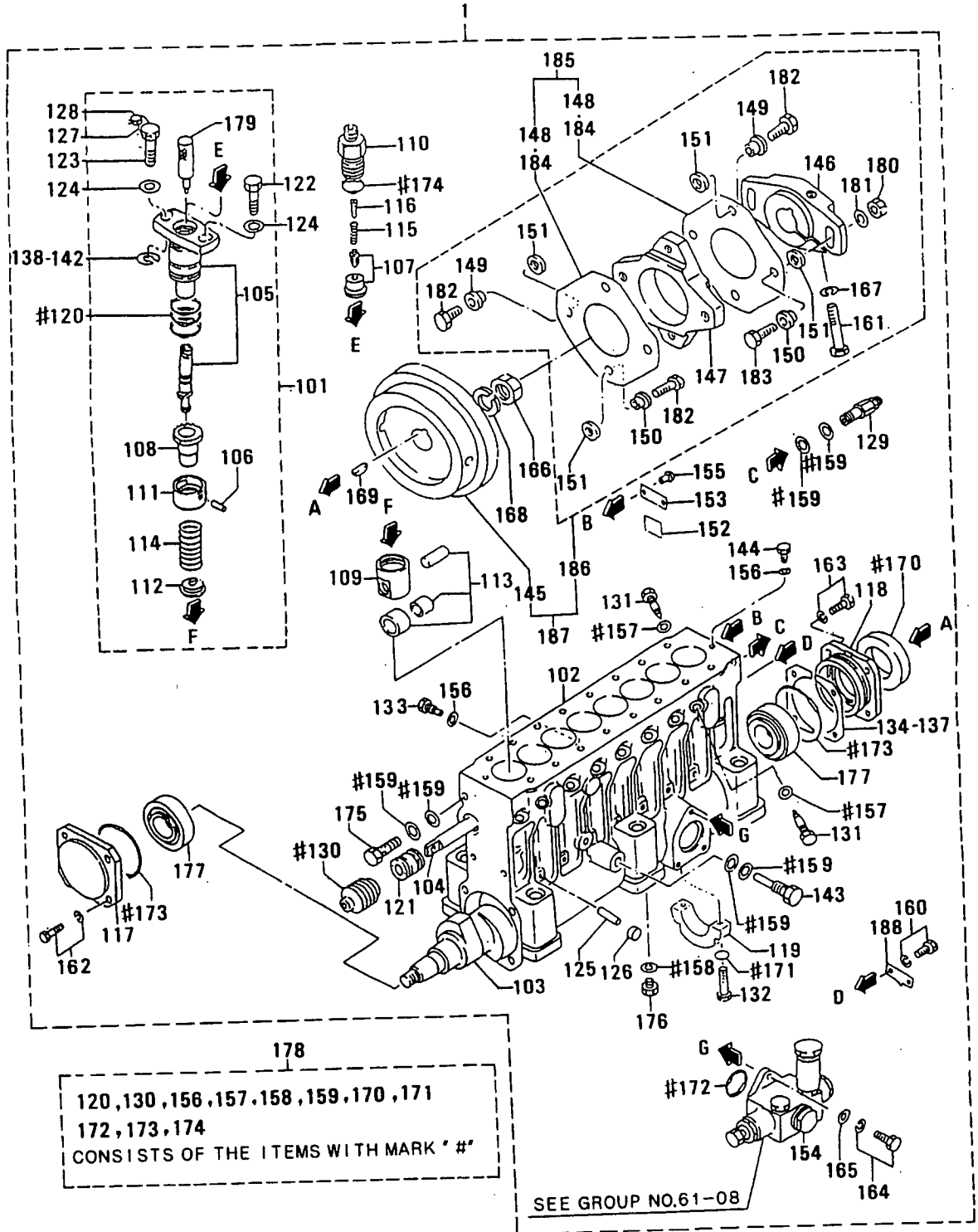


61-07 INJECTION PUMP L.H

EF. NO.	PART NO.	R/S P/Q	DESC EN/G	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		M/V R/D
					PTAA2			FROM@-	-@UPTO	
1	48279-00000			PUMP ASSY, INJ	1					
101	48291-14001			BLOCK, TWIN PLUNGER	1					
102	48240-11100			CASE, INJ PUMP	1					
103	48213-30200			CAMSHAFT	1					
104	48213-20300			RACK	1					
105	*			PLUNGER ASSY	8					
106	*			PIN, KNOCK	8					
107	48230-13010			VALVE ASSY, DELIVERY	8					
108	48202-18100			PINION	8					
109	48202-35900			TAPPET	8					
110	48210-14100			HOLDER, VALVE	8					
111	48202-21201			SEAT, UPPER SPRING	8					
112	48202-21300			SEAT, LOWER SPRING	8					
113	48210-00030			TAPPET ASSY, ROLLER	8					
114	48202-11700			SPRING, PLUNGER	8					A
115	48202-01800			SPRING, VALVE	8					A
116	48202-01900			STOPPER	8					
117	48210-25600			COVER, FRONT	1					
118	48202-12200			COVER, REAR	1					
119	48202-02300			BEARING, CENTER	1					
120	48202-12400			O-RING	24					A
121	48202-22500			BUSHING, RACK	2					
122	48202-02600			BOLT, BARREL	8					
123	48202-07600			BOLT, BARREL	8					
124	48202-22800			WASHER, BARREL	16					
125	48202-02900			PIN	9					A
126	04826-21000			CAP, SEALING	9					
127	48202-05800			WIRE	1					
128	48000-96600			SEAL	1					A
129	48202-34000			VALVE ASSY, CHECK	1					
130	48202-13500			BELLOWS	1					
131	48202-33600			BOLT, DEFLECTOR	16					
132	48202-23800			BOLT	2					A
133	48202-33900			SCREW, SET	1					
134	48202-14100			SHIM, CASE	4					
135	48202-14200			SHIM, CASE	1					
136	48202-14300			SHIM, CASE	1					
137	48202-14400			SHIM, CASE	2					
138	48202-04500			SHIM, BARREL	1					
139	48202-04600			SHIM, BARREL	16					
140	48202-04700			SHIM, BARREL	1					
141	48202-04800			SHIM, BARREL	1					
142	48202-04900			SHIM, BARREL	1					
143	48202-05200			BOLT, EYE	1					A
144	48202-05500			BOLT, EYE	2					A
145	48208-20101			FLYWHEEL	1					
146	48208-11200			COUPLING	1					
147	48208-10301			COUPLING, CROSS	1					
148	48208-10400			PLATE, LAMINATE	12					
149	48208-50500			BUSHING, LONG	4					

# 61-07 INJECTION PUMP L. H

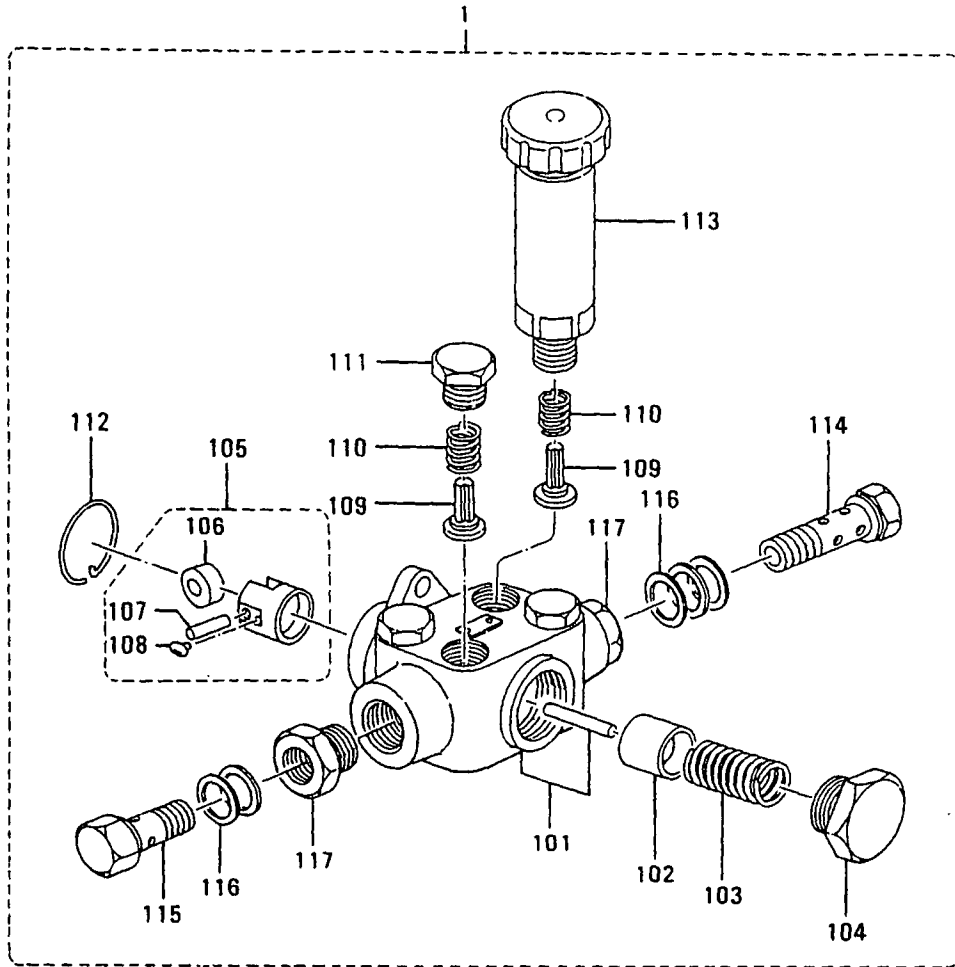
- 92-



61-07 INJECTION PUMP L.H

REF. NO.	PART NO.	DESC PAGE	PART NAME & DESCRIPTION	MODEL & QTY			APPLICABLE SERIAL NO.		M/V /R/D
				PTAA2			FROM@-	-@UPTO	
150	48208-50600		BUSHING, SHORT	4					
151	48208-30700		WASHER, COUPLING	8					
152	32598-24900		PLATE	1					
153	*		NAME-PLATE	1					
154	04245-00120		PUMP, FEED	1					
			SEE G/N 61-08						
155	00665-02048		RIVET, SCREW	2					
156	05946-00801		WASHER, SEALING	3					A
157	05946-01001		WASHER, SEALING	16					A
158	05946-01201		WASHER, SEALING	1					A
159	05946-01401		WASHER, SEALING	6					A
160	F1805-06012		BOLT, W/WASHER	2	B/W				A
161	F1035-14085		BOLT	1					A
162	F1805-08030		BOLT, W/WASHER	4	B/W				A
163	F1805-08025		BOLT, W/WASHER	4	B/W				A
164	F1805-06020		BOLT, W/WASHER	3	B/W				A
165	F2500-06000		WASHER, PLAIN	3					A
166	F2325-24000		NUT, JAM	1					
167	F2515-14000		WASHER, SPRING	1					A
168	32507-01400		WASHER	1					A
169	F2870-07025		KEY, WOODRUFF	1					
170	48202-07100		SEAL, OIL	1					A
171	05507-00080		O-RING	2					A
172	F3156-03500		O-RING	1					A
173	F3156-08000		O-RING	2					A
174	05507-20250		O-RING	8					A
175	48230-05100		BOLT, EYE	1					A
176	F5000-12000		PLUG, DRAIN	1					
177	F8143-32207		BEARING	2					A
178	48202-29100		REPAIR KIT	1					A
			CONSISTS OF "#"						
179	48291-00301		HOLDER, PLUNGER	1					
180	48250-05700		NUT, FLANGE	2					
181	48250-05600		WASHER, BARREL	2					
182	48250-05800		BOLT, SHORT	6					
183	48250-05300		BOLT, LONG	2					
184	48208-01400		PLATE, LAMINATE	4					
185	48202-03010		PLATE KIT	1					
186	48208-11020		COUPLING ASSY	1					
187	48208-02020		COUPLING ASSY	1					
188	48202-09500		POINTER	1					

61-08 FEED PUMP

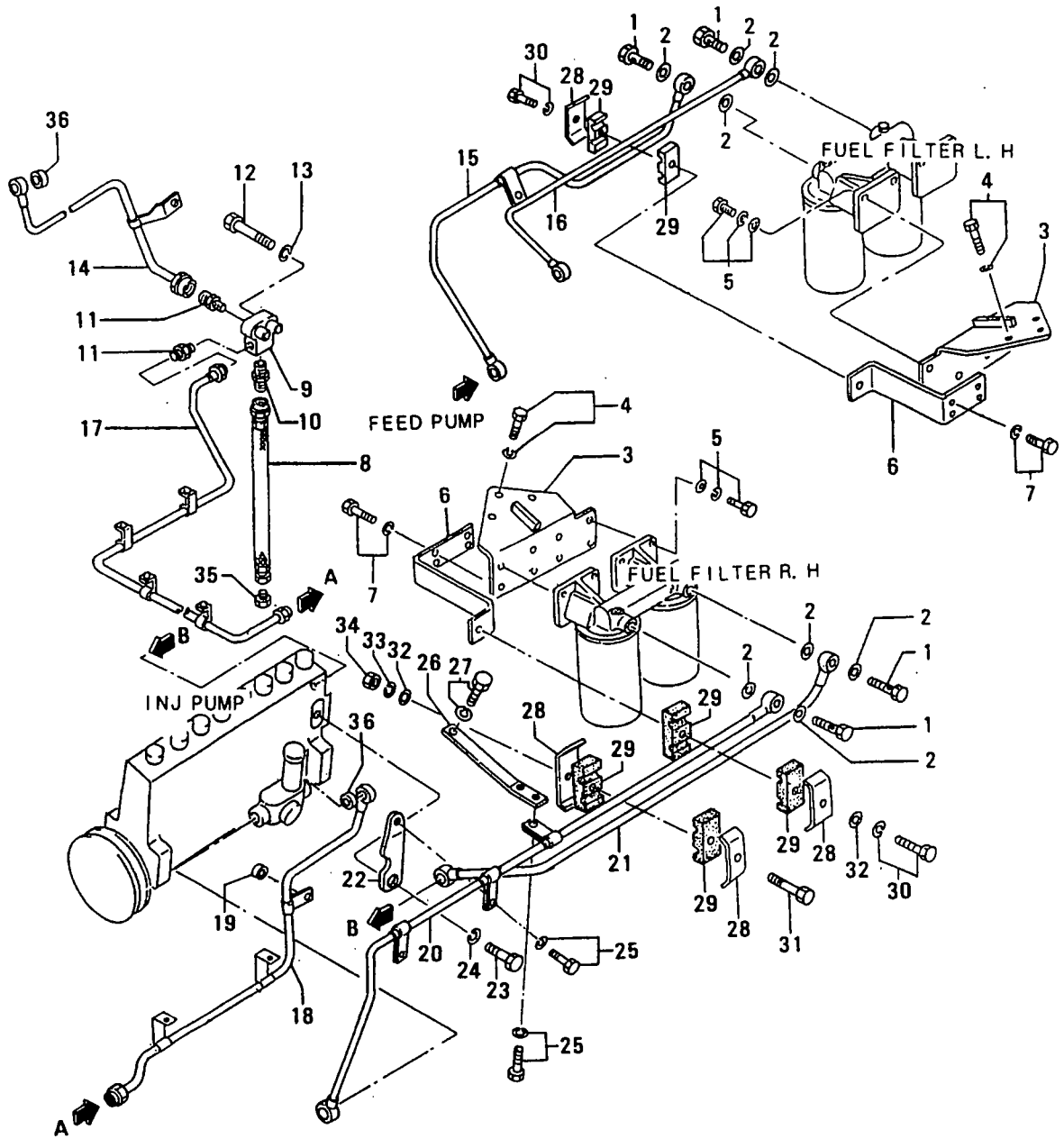


61-08 FEED PUMP

REF. NO.	PART NO.	R/S P/Q EN/G	PART NAME & DESCRIPTION	MODEL & QTY			APPLICABLE SERIAL NO.		M/V R/D
				PTAA2			FROM@-	-@UPTO	
1	04245-00120		PUMP, FEED	105235-1581 ZXL	1				
101	15200-21720		HOUSING		1				
102	15210-01120		PISTON		1				A
103	15210-40100		SPRING, PISTON		1				
104	15210-50400		PLUG		1				A
105	15211-11920		TAPPET ASSY		1				
106	15211-20100		ROLLER		1				
107	15211-30700		PIN		1				A
108	15211-40400		GUIDE		2				
109	15211-50200		VALVE		4				
110	15211-60200		SPRING		4				A
111	15211-70100		PLUG		3				A
112	15212-10200		RING, SNAP		1				A
113	15220-05620		PUMP, PRIMING		1				
114	15230-04020		BOLT, EYE		1				A
115	02973-14570		BOLT, EYE		1				A
116	05946-01401		WASHER, SEALING	029341-4130 ZXL	5				A
117	15231-01300		ADAPTER		2				

# 62-01 FUEL FILTER PIPING

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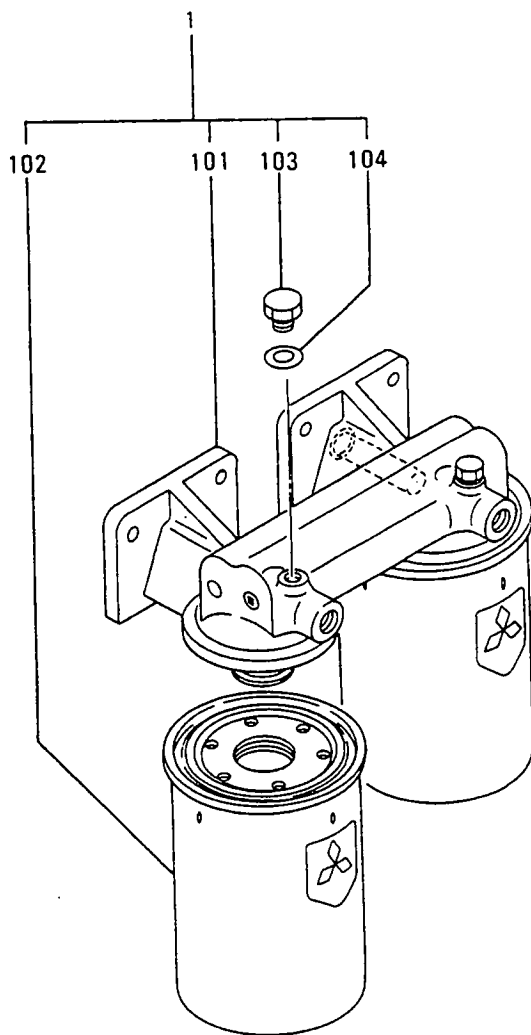
62-01 FUEL FILTER PIPING

- 97-

EF. NO.	PART NO.	R/S P/GENG	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		M/V /R/D
				PTAA2			FROM@-	-@UPTO	
1	F4610-14000		BOLT, EYE	4					A
2	05946-01401		WASHER, SEALING	8					A
3	37762-20400		BRACKET, FUEL FILTER	2					
4	F1805-12030		BOLT, W/WASHER B/W	6					A
5	F1825-10025		BOLT, W/WASHER B/W	8					A
6	37762-10300		STAY, PIPE	2					
7	F1805-10020		BOLT, W/WASHER B/W	4					A
8	45950-51700		PIPE, FLEXIBLE	1					
9	37762-00501		CONNECTOR	1					
10	F4540-20000		CONNECTOR	1					
11	F4540-10000		CONNECTOR	2					
12	F1035-12090		BOLT	2					A
13	F2515-12000		WASHER, SPRING	2					A
14	37862-21100		PIPE, FUEL L.H	1					
15	37862-31200		PIPE, FUEL L.H	1					
16	37862-11300		PIPE, FUEL L.H	1					
17	37762-41400		PIPE, FUEL	1					
18	37862-21500		PIPE, FUEL	1					
19	37736-01500		SPACER	1					
20	37862-21600		PIPE, FUEL R.H	1					
21	37862-11700		PIPE, FUEL R.H	1					
22	37762-32100		STAY, PIPE	3					
23	F1035-14025		BOLT	3					A
24	F2515-14000		WASHER, SPRING	3					A
25	F1805-10016		BOLT, W/WASHER B/W	4					A
26	37862-04200		STAY, FUEL PIPE	1					
27	F1805-12025		BOLT, W/WASHER B/W	1					A
28	37261-01700		CLAMP	6					A
29	37261-01800		SEAT	8					
30	F1805-10030		BOLT, W/WASHER B/W	2					A
31	F1035-10035		BOLT	2					A
32	F2500-10000		WASHER, PLAIN	6					A
33	F2515-10000		WASHER, SPRING	2					A
34	F2300-10000		NUT	2					A
35	45950-11300		CONNECTOR	1					
36	37561-03700		SPACER	2					

62-02 FUEL FILTER

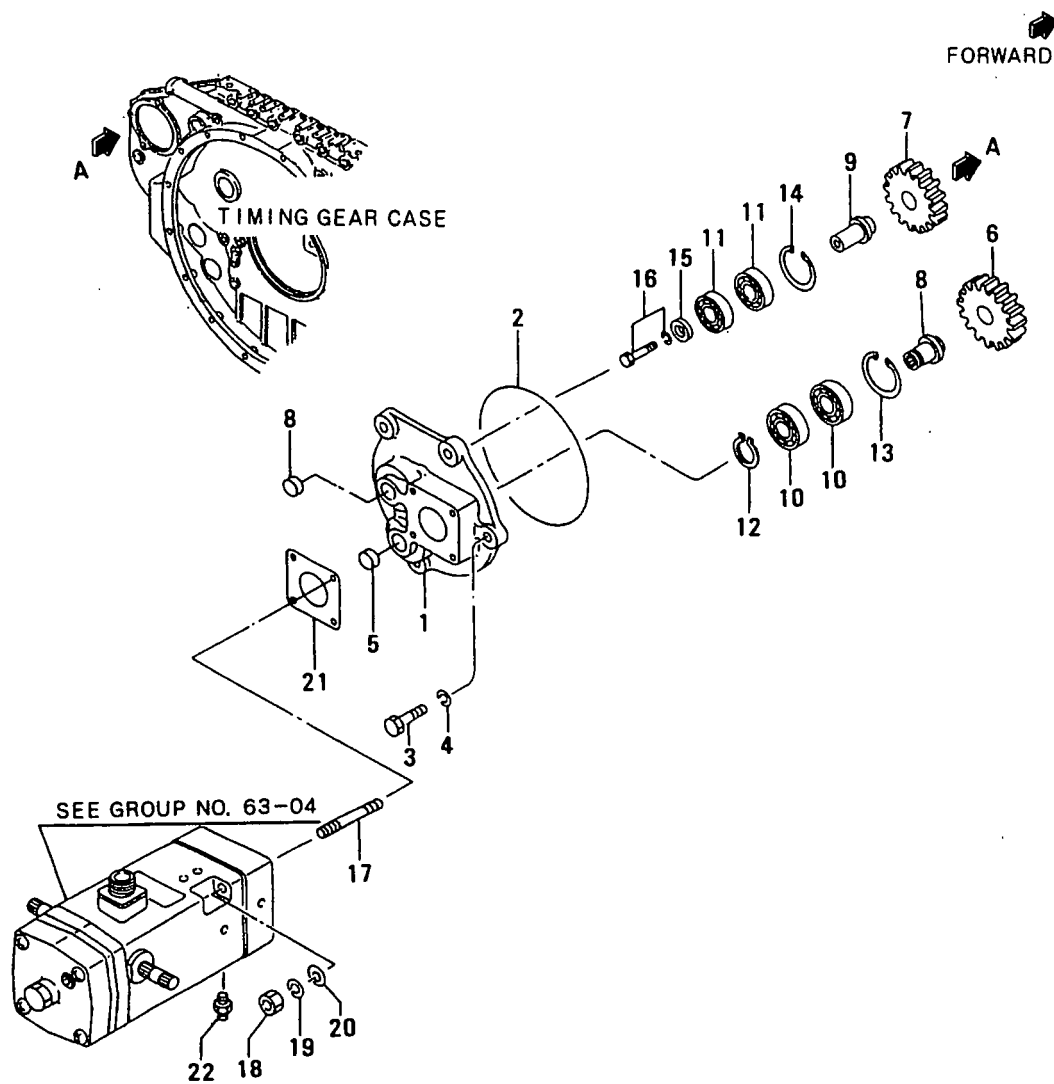
- 98-





63-01 GOVERNOR DRIVE

-100-



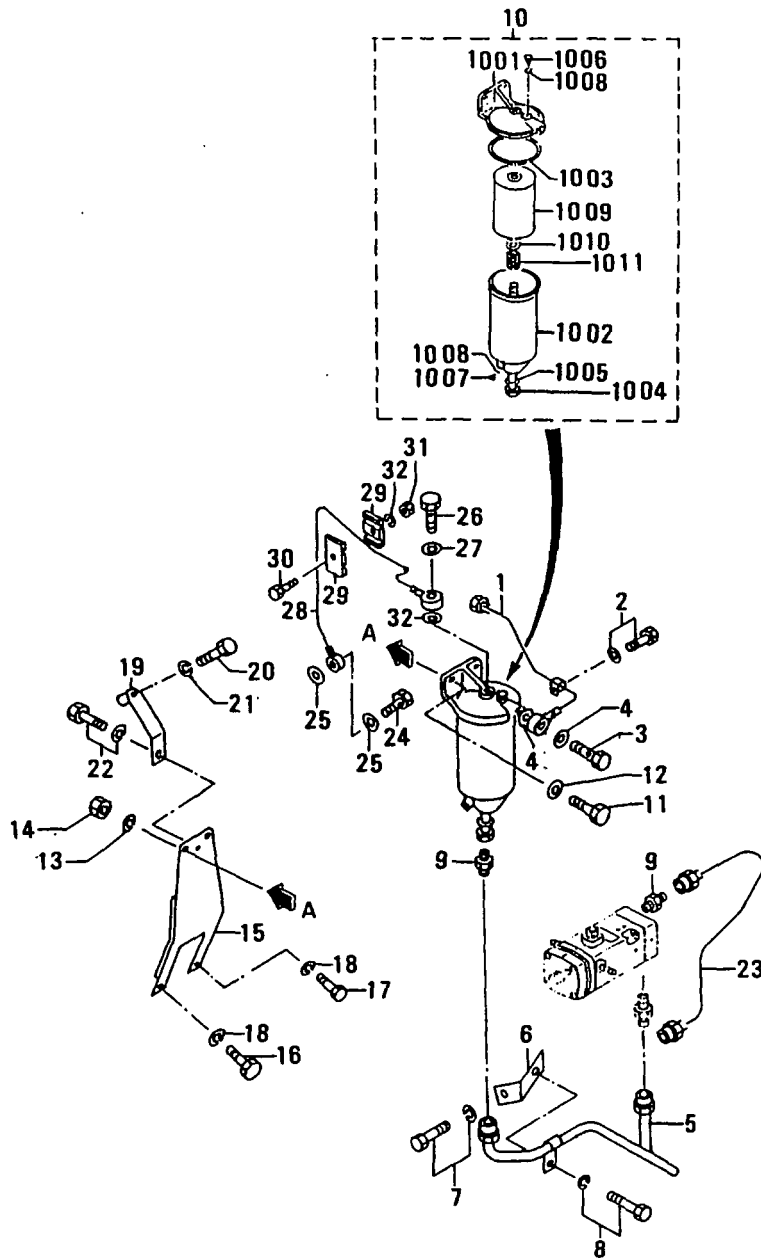
63-01 GOVERNOR DRIVE

-101-

REF. -NO.	PART NO.	R P C G	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		MV /R RD
				PTAA2			FROM@-	-@UPTO	
1	37763-15100		CASE	1					
2	F3153-14500		O-RING	1					A
3	F1035-12035		BOLT	4					A
4	F2515-12000		WASHER, SPRING	4					A
5	04826-22000		CAP, SEALING	2					
6	37563-13300		GEAR, DRIVE	1					
7	37563-13400		GEAR, IDLER	1					
8	37563-03501		SHAFT, DRIVE	1					
9	37563-03600		SHAFT, IDLER	1					
10	F8006-06205		BEARING, BALL	2					A
11	F8006-06204		BEARING, BALL	2					A
12	F3200-02500		RING, SNAP	1					A
13	F3202-05200		RING, SNAP	1					A
14	F3202-04700		RING, SNAP	1					A
15	67352-01500		WASHER	1					A
16	F1805-08020		BOLT, W/WASHER	1					A
17	F1455-08055		STUD	2					
18	F2305-08000		NUT	2					A
19	F2515-08000		WASHER, SPRING	2					A
20	F2500-08000		WASHER, PLAIN	2					A
21	37463-21900		PACKING	1					A
22	37736-08500		CONNECTOR	1					

63-02 GOVERNOR OIL PIPE

-102-



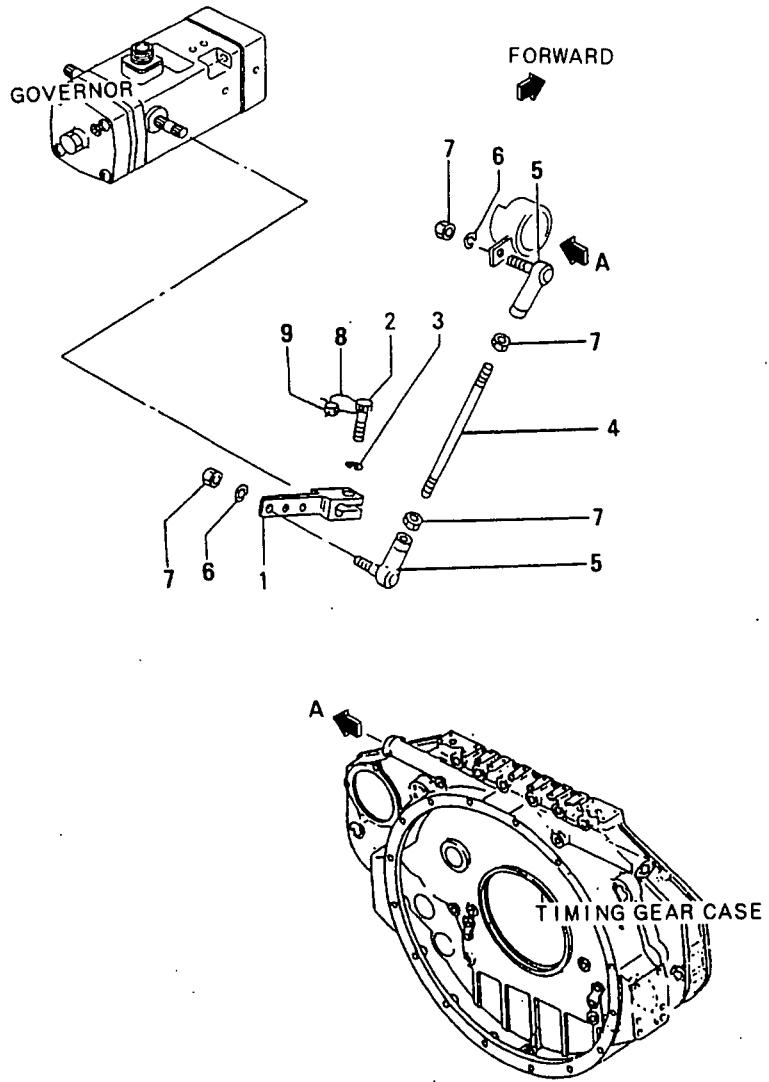
63-02 GOVERNOR OIL PIPE

-103-

REF. NO.	PART NO.	R/S P/EN C/OG	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		M/V R/D
				PTAA2			FROM@-	-@UPTO	
1	37736-37400		PIPE,OIL	1					
2	F1805-10016		BOLT,W/WASHER B/W	1					A
3	37563-07600		BOLT,EYE	1					
4	05946-01401		WASHER, SEALING	2					A
5	37736-37700		PIPE,OIL	1					
6	37763-05400		STAY,OIL PIPE	1					
7	F1805-12030		BOLT,W/WASHER B/W	1					A
8	F1805-10016		BOLT,W/WASHER B/W	1					A
9	F4540-06300		CONNECTOR	2					
10	37540-08500		TANK ASSY,OIL FILTER	1					
1001	*		COVER ASSY	1					
1002	ME040-24401		CASE ASSY	1					
1003	ME040245		PACKING,COVER	1					
1004	*		BOLT,CENTER	1					
1005	MH035070		PACKING	1					A
1008	MH037084		PLUG,AIR	1					
1010	*		PLUG,DRAIN	1					
1011	MH035067		PACKING	2					A
1012	37540-08511		ELEMENT	1					A
1013	ME040249		SEAT,SPRING	1					
1014	ME040248		SPRING,SET	1					
11	F1035-10030		BOLT	2					A
12	F2500-10000		WASHER,PLAIN	2					A
13	F2515-10000		WASHER,SPRING	2					A
14	F2300-10000		NUT	2					A
15	37763-15200		BRACKET	1					
16	F1035-12120		BOLT	1					A
17	F1035-12070		BOLT	1					A
18	F2515-12000		WASHER,SPRING	2					A
19	37763-05300		STAY,OIL TANK	1					
20	F1035-10085		BOLT	1					A
21	F2515-10000		WASHER,SPRING	1					A
22	F1805-10016		BOLT,W/WASHER B/W	1					A
23	37736-17800		PIPE,DRAIN	1					
24	37736-07900		BOLT,EYE	1					A
25	05946-00801		WASHER, SEALING	2					A
26	F4610-14000		BOLT,EYE	1					A
27	05946-01401		WASHER, SEALING	2					A
28	37736-18300		PIPE,OIL	1					
29	MH021219		CLAMP	4					A
30	F1035-06030		BOLT	2					A
31	F2300-06000		NUT	2					A
32	F2515-06000		WASHER,SPRING	2					A

63-03 GOVERNOR CONTROL

-104-



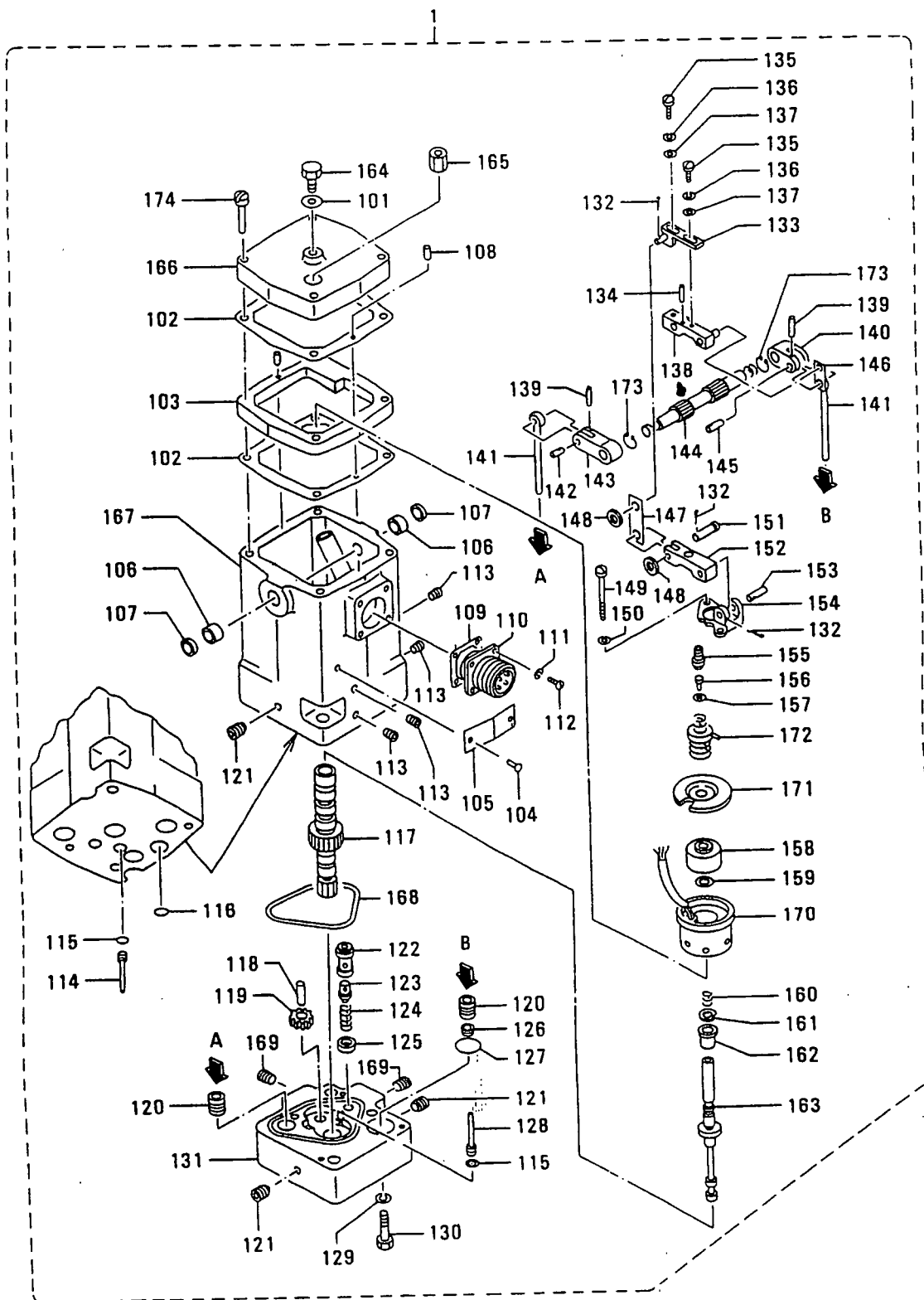
63-03 GOVERNOR CONTROL

-105-

REF. NO.	PART NO.	RSC EN PG	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		MV /R RD
				PTAA2			FROM@-	-@UPTO	
1	37563-14500		LEVER, GOVERNOR	1					
2	F1115-08025		BOLT	1					A
3	F2515-08000		WASHER, SPRING	1					A
4	05901-08150		ROD	1					
5	35A61-28600		JOINT, BALL	2					A
6	F2515-08000		WASHER, SPRING	2					A
7	F2300-08000		NUT	4					A
8	34461-07700		WIRE, SEAL	1					
9	48000-96600		SEAL	1					A

63-04 GOVERNOR ASSY (MODEL EG-3P)

-106-



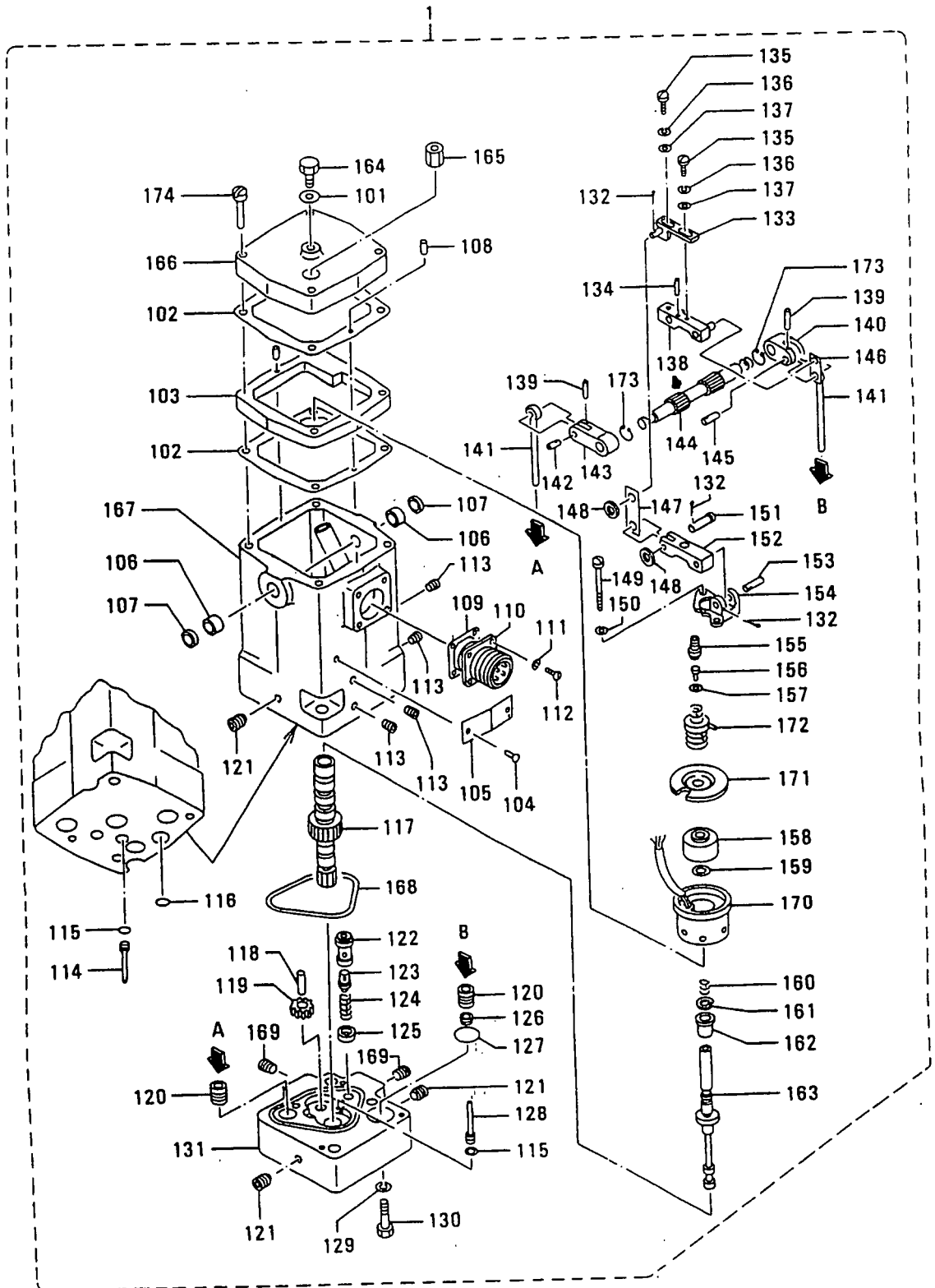
## 63-04 GOVERNOR ASSY (MODEL EG-3P)

-107-

FF. NO.	PART NO.	R/S C/P ENG/G	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		M/V R/D
				PTAA2			FROM@-	-@UPTO	
1	32565-03540		ACTUATOR ASSY	1					
101	825602		WASHER	1					A
102	825607		GASKET	2					A
103	825608		SPACER	1					
104	825609		SCREW, DRIVE	2					
105	8256010		NAME-PLATE	1					
106	8256011		BEARING, NEEDLE	2					A
107	8256012		SEAL, OIL	2					A
108	8256013		PIN, DOWEL	2					A
109	8256014		GASKET	1					A
110	8256015		CONNECTOR	1					
111	8256016		WASHER	4					A
112	8256017		SCREW	4					A
113	8256021		PLUG, PIPE	4					
114	8256023		PLUG, CASE	1					
115	8256024		O-RING	2					A
116	8256025		O-RING	1					A
117	8256026		BUSHING, PILOT VALVE	1					
118	8256028		STUD	1					
119	8256029		GEAR ASSY, IDLER	1					
120	8256030		PISTON	2					A
121	8256031		PLUG, PIPE	3					
122	8256032		SLEEVE, RELIEF VALVE	1					
123	8256033		PLUNGER	1					
124	8256034		SPRING, RELIEF VALVE	1					
125	8256035		SPACER, RELIEF VALVE	1					
126	8256037		STOPPER, SERVO PISTON	1					
127	8256038		O-RING	1					A
128	8256042		PLUG, BASE	1					
129	8256043		WASHER	2					A
130	8256044		SCREW	2					A
131	8256045		BASE, ACTUATOR	1					
132	8256046		PIN, COTTER	4					A
133	8256047		BRACKET ASSY	1					
134	8256048		PIN, ROLL	2					
135	8256049		SCREW	2					A
136	8256050		WASHER, LOCK	2					A
137	8256051		WASHER	2					A
138	8256052		LEVER	1					
139	8256054		PIN, ROLL	2					
140	8256055		LEVER, SHORT	1					
141	8256056		ROD ASSY	2					
142	8256057		PIN, STRAIGHT	1					
143	8256058		LEVER, LONG	1					
144	8256059		SHAFT, TERMINAL	1					
145	8256060		PIN	1					A
146	8256061		LINK, FEEDBACK	1					
147	8256062		LINK, RESTORING	1					
148	8256063		WASHER	2					A
149	8256064		SCREW	2					A

63-04 GOVERNOR ASSY (MODEL EG-3P)

-108-

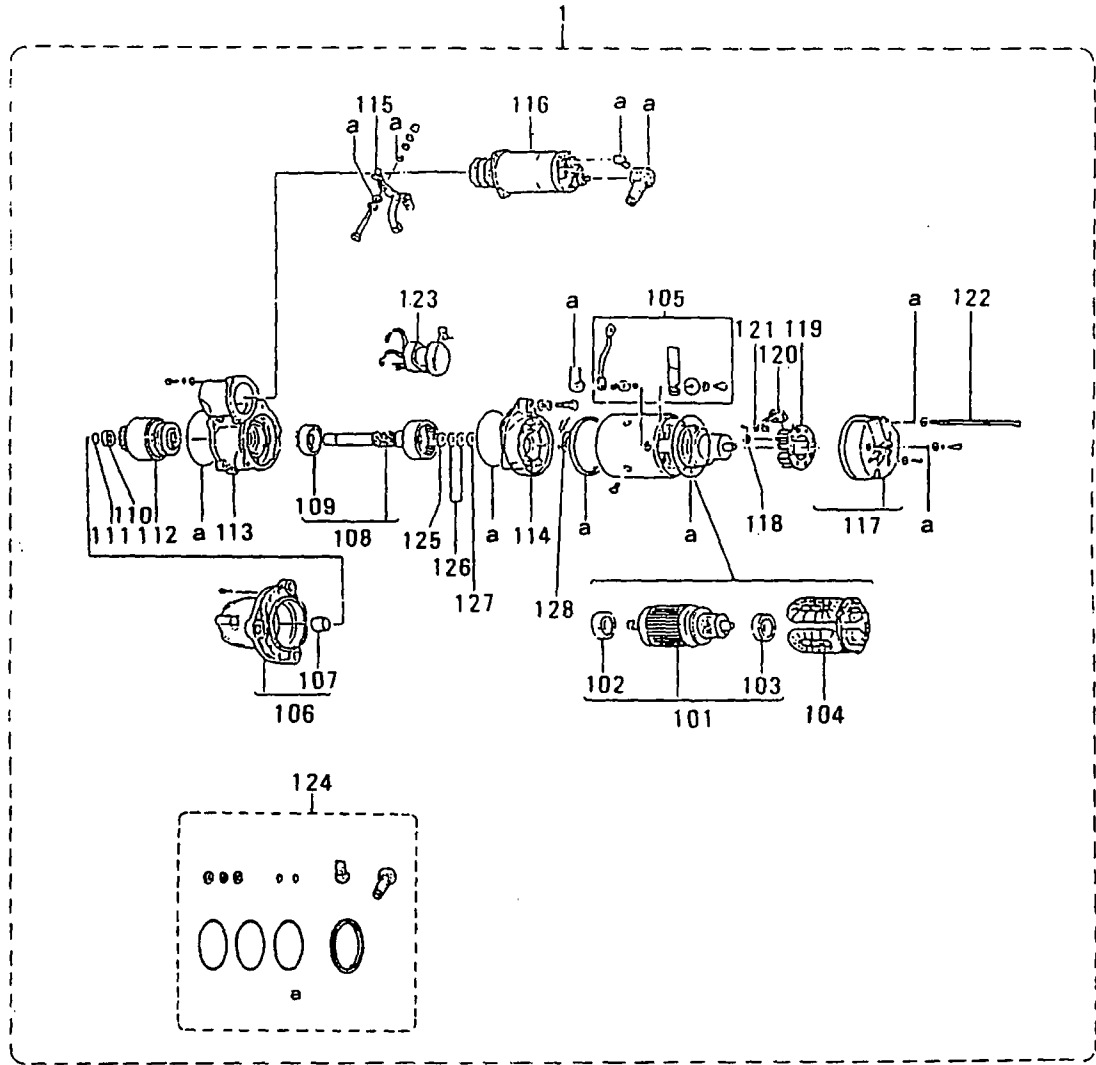


63-04 GOVERNOR ASSY (MODEL EG-3P)

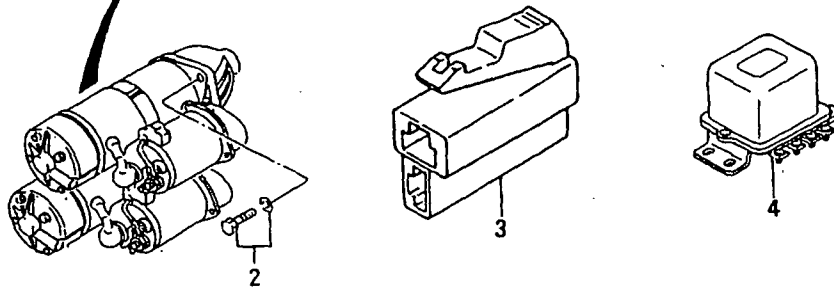
-109-

REF. NO.	PART NO.	R/S P/G	SC EN G	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		M/V R/D
					PTAA2			FROM@-	--@UPTO	
150	8256065			WASHER	2					A
151	8256066			PIN	1					A
152	8256067			LEVER	1					
153	8256068			PIN, STRAIGHT	1					
154	8256069			BRACKET	1					
155	8256070			SEAT, SPRING	1					
156	8256071			SCREW	1					A
157	8256072			WASHER	1					A
158	8256074			MAGNET ASSY	1					
159	8256075			WASHER	1					A
160	8256078			SPRING	1					A
161	8256079			RING, RETAINING	1					
162	8256080			BUSHING	1					
163	8256081			PLUNGER, PILOT VALVE	1					
164	8256082			SCREW	1					A
165	8256083			PLUG	3					A
166	8256084			COVER	1					
167	8256085			CASE, ACTUATOR	1					
168	8256086			RING, SEAL	1					
169	8256099			PLUG	2					A
170	82560100			TRANSDUCER	1					
171	32560101			RETAINER, TOP COIL	1					
172	32560102			SPRING	1					A
173	32560103			RING, SNAP	2					A
174	32560104			SCREW	4					A

66 STARTER (24V-7.5KW)



PART WITHOUT REF. NO. SHALL NOT BE SUPPLIED.



REF. NO.	PART NO.	R/S P/PC G	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		MVRD
				PTAA2			FROM@-	-@UPTO	
1	37766-00200		STARTER	0230007170 NKC	2				
101	02310-00230		ARMATURE		2				
102	10456-62047		BEARING, BALL		2				A
103	10456-62007		BEARING, BALL		2				A
104	02323-00150		COIL, FIELD		2				
105	72378-00070		TERMINAL		2				
106	02331-01340		BRACKET, FRONT		2				
107	72335-10080		METAL		2				
108	72312-00090		SHAFT ASSY		2				
109	10456-60067		BEARING, BALL		2				A
110	12318-10020		STOPPER, PINION		2				
111	12391-40020		RING, CLIP		2				
112	02350-00690		CLUTCH ASSY		2				
113	12361-10280		BRACKET		2				
114	12361-10080		BRACKET, CENTER		2				
115	12332-00190		LEVER, SHIFT		2				
116	04710-03420		SWITCH		2				
117	02371-10221		BRACKET, REAR		2				
118	12391-30040		SPRING, BRUSH		8				
119	02375-00050		HOLDER, BRUSH		2				
120	12374-00050		BRUSH		8				A
121	12592-22800		PLATE		8				
122	00900-14380		BOLT		4				A
123	02500-07221		SWITCH		2				
124	70921-01460		SEAL ASSY		2				
125	12392-10130		WASHER		2				A
126	12392-10140		WASHER		4				A
127	12394-10040		WASHER, INSULATE		2				
128	02392-10230		WASHER		4				A
2	F1805-12035		BOLT, W/WASHER	B/W	6				A
3	F8665-02100		CONNECTOR		2				
4	04322-40100		RELAY, SAFETY		1				

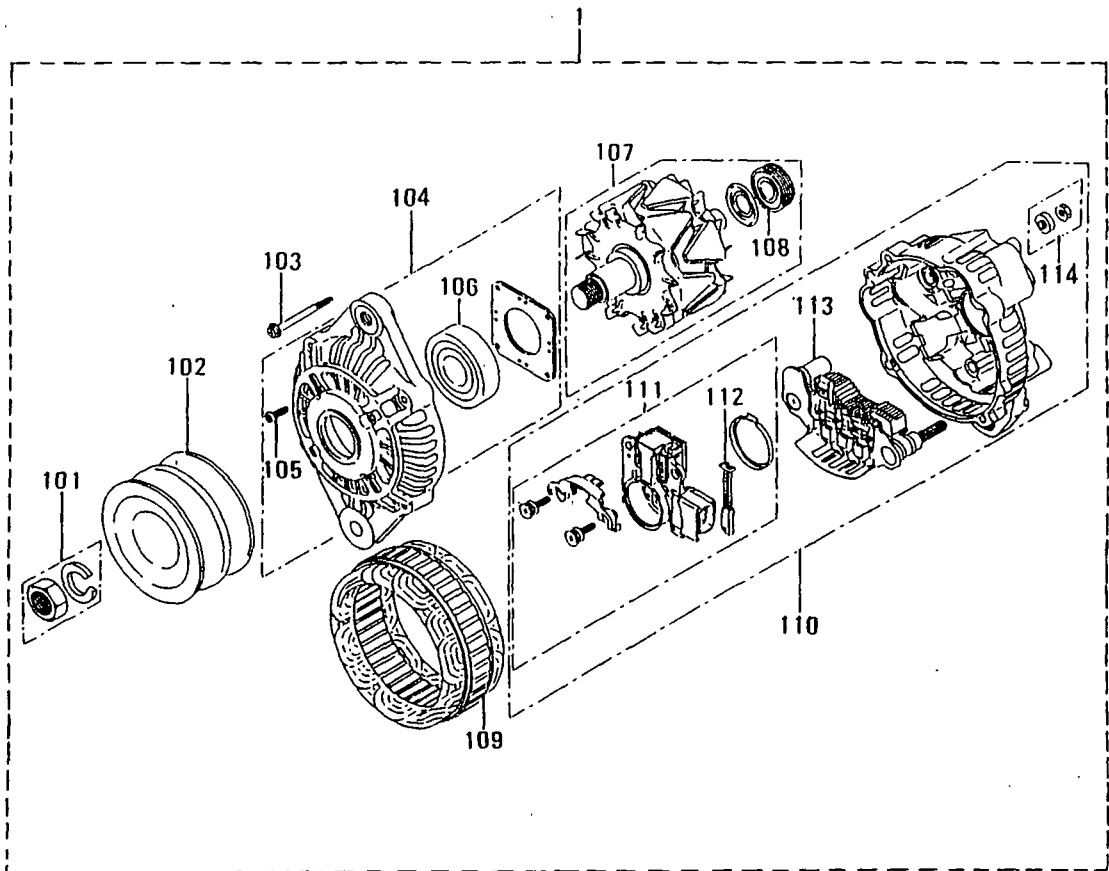


68-01 ALTERNATOR GENERAL

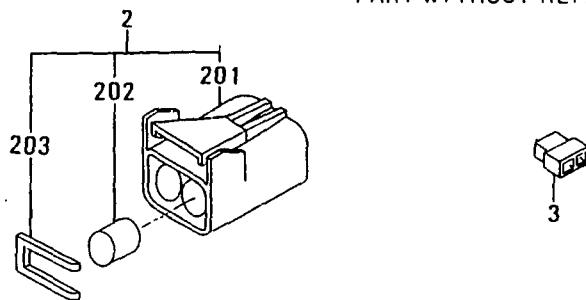
-113-

REF. NO.	PART NO.	P / P	R S C E N G	PART NAME & DESCRIPTION	MODEL & QTY			APPLICABLE SERIAL NO.	M V / R I D		
					PTAA2					FROM@-	-@UPTO
1	37768-12100			BRACKET, ALTERNATOR	1						
2	F1035-12030			BOLT	2				A		
3	F1035-12035			BOLT	1				A		
4	F2515-12000			WASHER, SPRING	5				A		
5	37768-12200			BRACKET, ALTERNATOR	1						
6	F1035-12035			BOLT	1				A		
7	F1035-12040			BOLT	1				A		
8	37568-02021			ROD ASSY, ADJUSTING	1						
801	F2320-14000			NUT, JAM	1				A		
802	09413-01401			NUT, LOCK	1				A		
803	37568-22200			ROD, ALTERNATOR	1						
804	37568-22300			ROD, ALTERNATOR	1						
805	37768-02300			ROD, ADJUSTING	1						
9	37768-18300			BOLT, ALTERNATOR	2						
10	37768-02400			SPACER, ALTERNATOR	1						
11	F1035-12060			BOLT	1				A		
12	F2515-12000			WASHER, SPRING	3				A		
13	37768-04200			V-BELT, ALTERNATOR	1						
	37768-22500			COVER, ALTERNATOR	1						
15	F1805-10020			BOLT, W/WASHER	2				A		
				B/W							
16	F2500-10000			WASHER, PLAIN	2				A		
17	37768-02600			COVER, BELT	1						
18	37768-02700			STAY, COVER	2						
19	F1805-12025			BOLT, W/WASHER	2				A		
				B/W							
20	37768-02800			STAY, COVER	1						
21	F1805-10016			BOLT, W/WASHER	3				A		
				B/W							
22	F2500-10000			WASHER, PLAIN	2				A		
23	37725-14101			PULLEY, ALTERNATOR	1						

68-02 ALTERNATOR (24V-30A)



PART WITHOUT REF. NO. SHALL NOT BE SUPPLIED.

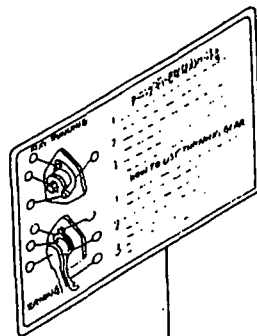
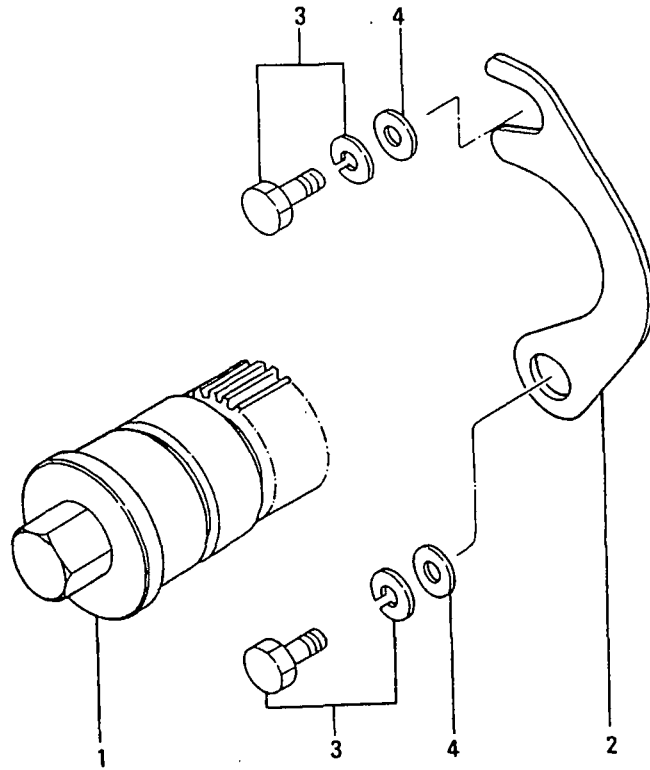


68-02 ALTERNATOR (24V-30A)

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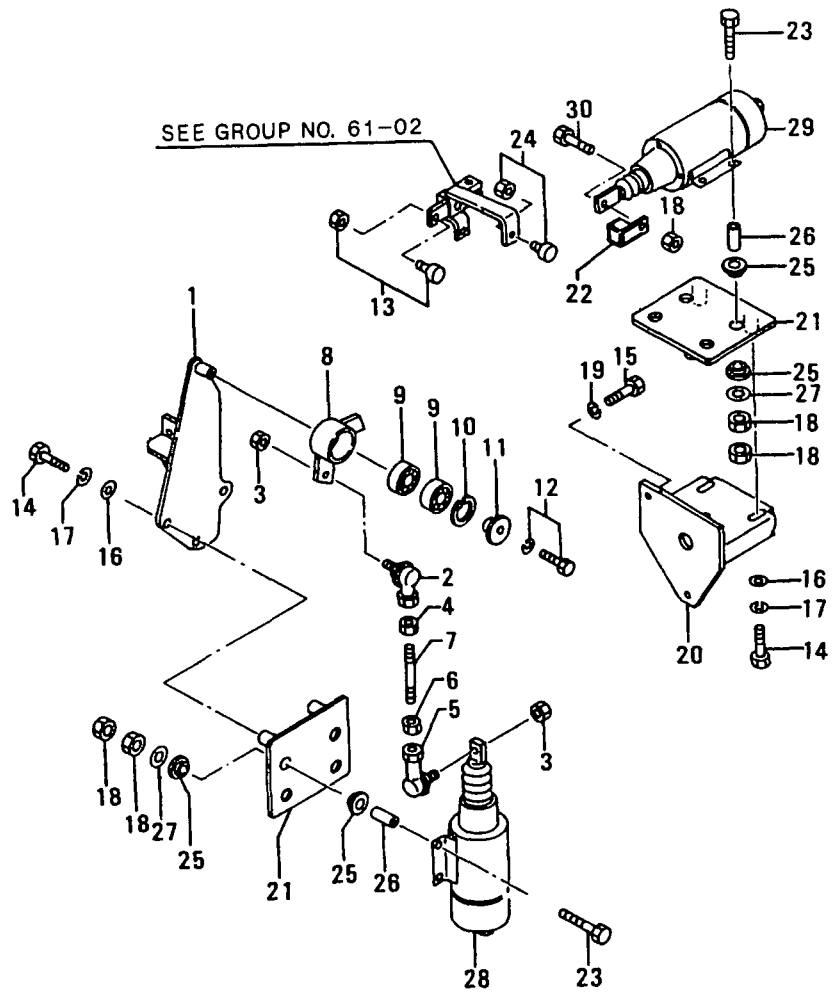
EF NO.	PART NO.	RSC ENG	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		M/V R/D
				PTAA2			FROM@-	-@UPTO	
1	04343-38000		ALTERNATOR	A003TN5487 MEC	1				
101	A529X-06571		NUT SET		1				
102	A629X-51770		PULLEY		1				
103	A414X-19271		SCREW SET		1				A
104	A640X-58670		BRACKET		1				
105	A414X-19371		SCREW SET		1				A
106	S930P-37270		BEARING		1				A
107	A880X-74970		ROTOR ASSY		1				
108	S930P-80770		BEARING		1				A
109	A383X-51570		STATOR		1				
110	A642X-33570		BRACKET		1				
111	A866X-28372		REGULATOR		1				
112	A647X-50270		BRUSH		2				A
113	A860X-50670		RECTIFIER ASSY		1				
114	A529X-05571		NUT SET		1				
2	34A68-05100		CONNECTOR		1				
201	34A68-05111		BODY,CONNECTOR		1				
202	34A68-05112		PLUB		2				
303	34A68-05113		HOLDER, REAR		1				
3	32B90-00300		CONNECTOR		1				

# 71 TURNING GEAR



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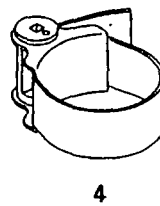
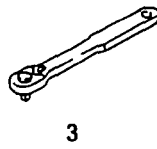
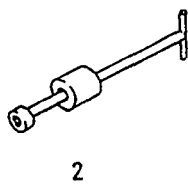
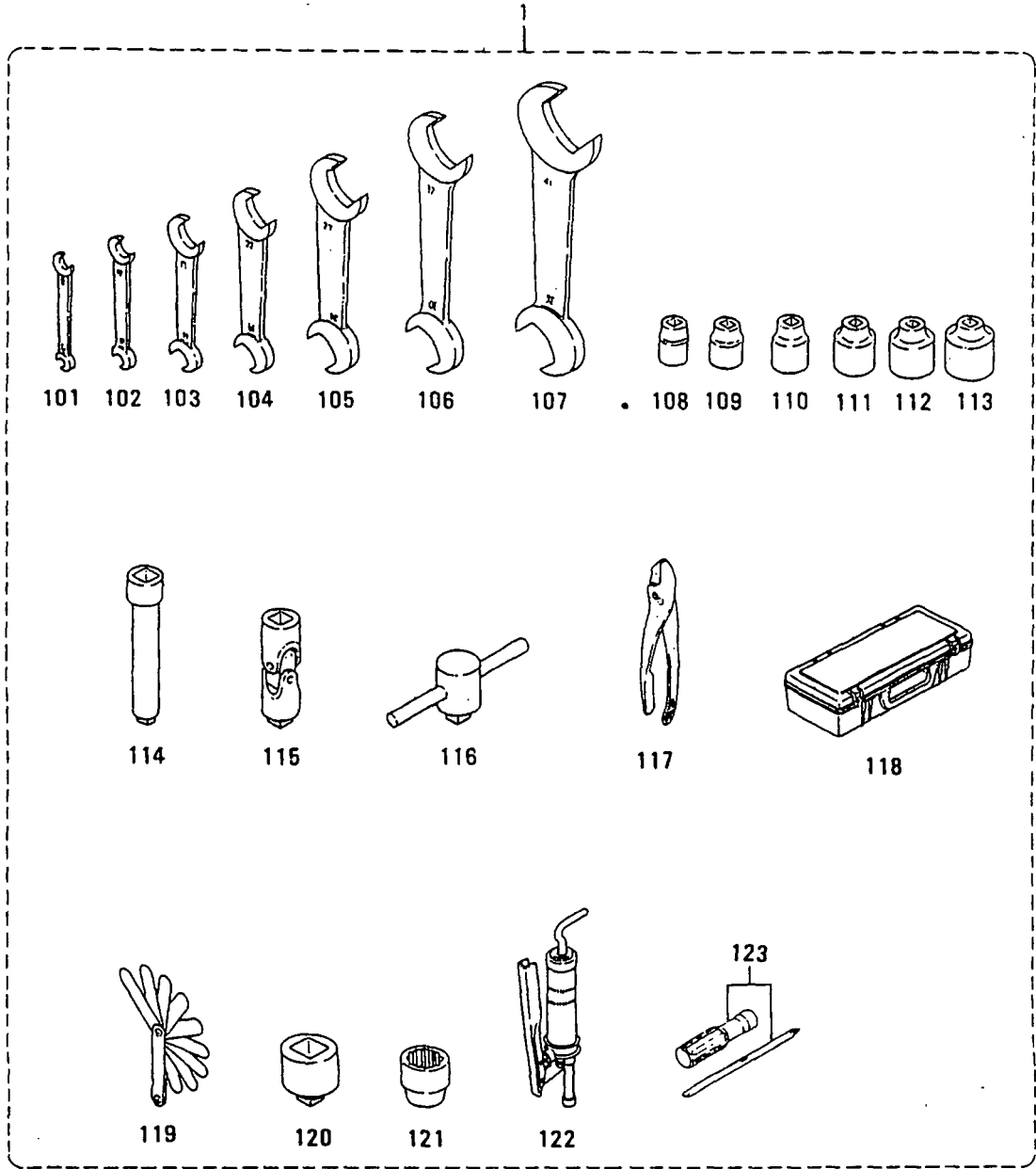


87 STOP SYSTEM

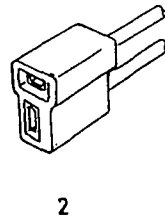
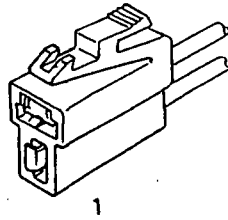
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REF. NO.	PART NO.	R/S P/Q	C S Q	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		M/V R/D
					PTAA2			FROM@-	-@UPTO	
1	37899-83001			BRACKET, SOLENOID	1					
2	35A61-38300			JOINT, BALL	1					A
3	05634-00610			NUT, SELF LOCKING	2					
4	F2300-06000			NUT	1					A
5	35A61-38400			JOINT, BALL	1					A
6	09413-00600			NUT, LOCK	1					A
7	05902-06100			ROD	1					
8	37787-21200			LEVER, STOP	1					
9	F8007-06200			BEARING, BALL	2					A
10	F3202-03000			RING, SNAP	1					A
11	32561-18300			PLATE, END	1					
12	F1805-10040			BOLT, W/WASHER B/W	1					A
13	45298-20800			FOLLOWER	1					
14	F1035-10025			BOLT	6					A
15	F1035-12030			BOLT	2					A
16	F2500-10000			WASHER, PLAIN	6					A
17	F2515-10000			WASHER, SPRING	6					A
18	F2300-06000			NUT	17					A
	F2515-12000			WASHER, SPRING	2					A
20	37787-03300			BRACKET, SOLENOID	1					
21	47520-25800			PLATE, SOLENOID	2					
22	37787-03200			ADAPTER	1					
23	F1035-06040			BOLT	8					A
24	45298-20800			FOLLOWER	1					
25	47500-34100			CUSHION, RUBBER	16					
26	47500-36700			SPACER	8					
27	08302-06000			WASHER	8					A
28	04400-08500			SOLENOID, RUN-ON	1					
29	04400-08600			SOLENOID, RUN-OFF	1					
30	F1035-06020			BOLT	1					A

91 TOOLS



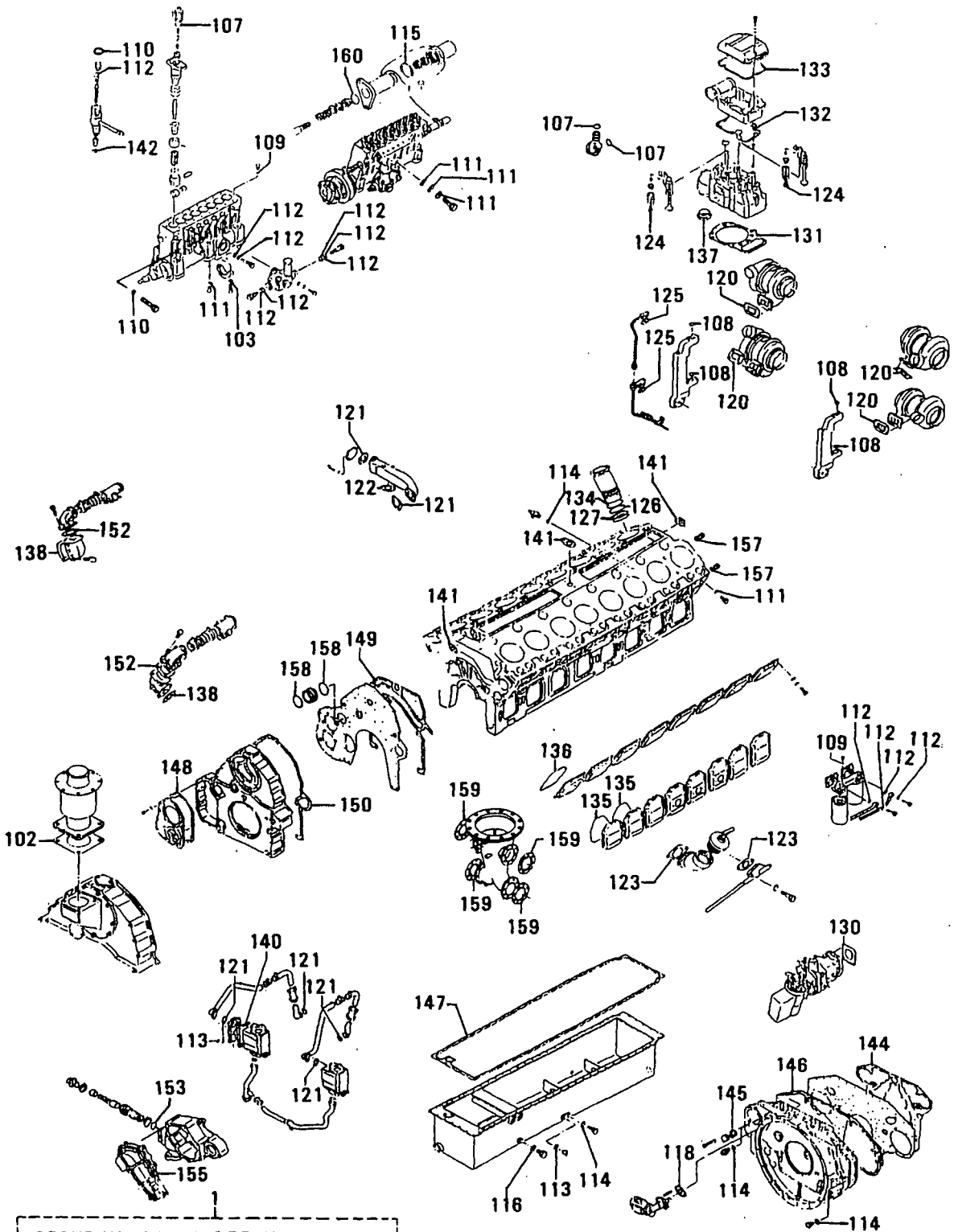
REF. NO.	PART NO.	R/S P/E N/G	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		M/R R/D
				PTAA2			FROM@-	-@UPTO	
1	32591-00012		TOOL ASSY	1					
101	F9600-07008		WRENCH, OPEN-END 7X8	1					
102	F9600-10012		WRENCH, OPEN-END 10X12	1					
103	F9600-14017		WRENCH, OPEN-END 14X17	1					
104	F9600-19022		WRENCH, OPEN-END 19X22	1					
105	F9600-24027		WRENCH, OPEN-END 24X27	1					
106	F9600-30032		WRENCH, OPEN-END 30X32	1					
107	F9600-36041		WRENCH, OPEN-END 36X41	1					
108	F9614-17000		SOCKET FOR 12MM BOLT	1					
109	F9614-22000		SOCKET FOR 14MM BOLT	1					
110	F9614-24000		SOCKET FOR 16MM BOLT	1					
111	F9614-27000		SOCKET FOR 18MM BOLT	1					
112	F9614-30000		SOCKET FOR 20MM BOLT	1					
113	F9614-32000		SOCKET FOR 22MM BOLT	1					
114	F9615-25000		BAR, EXTENSION	1					
115	F9617-10000		JOINT, UNIVERSAL	1					
116	F9618-30000		HANDLE, SLIDE	1					
117	F9630-15000		PLIERS	1					
118	MC420083		BOX, TOOL	1					
119	30091-06501		GAGE, THICKNESS	1					
120	33491-03600		ADAPTER	1					
121	33491-13500		SOCKET FOR 24MM BOLT	1					
122	64309-15300		PUMP, GREASE	1					
123	91267-00201		DRIVER, SCREW	1					
2	33591-10101		REMOVER	1					
3	37191-03300		HANDLE	1					
4	32591-22100		WRENCH, FILTER	1					





94-01 OVERHAUL GASKET KIT (PART-1)

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GROUP NO. 94-01 : REF. NO. 101-160  
 GROUP NO. 94-02 : REF. NO. 101-151

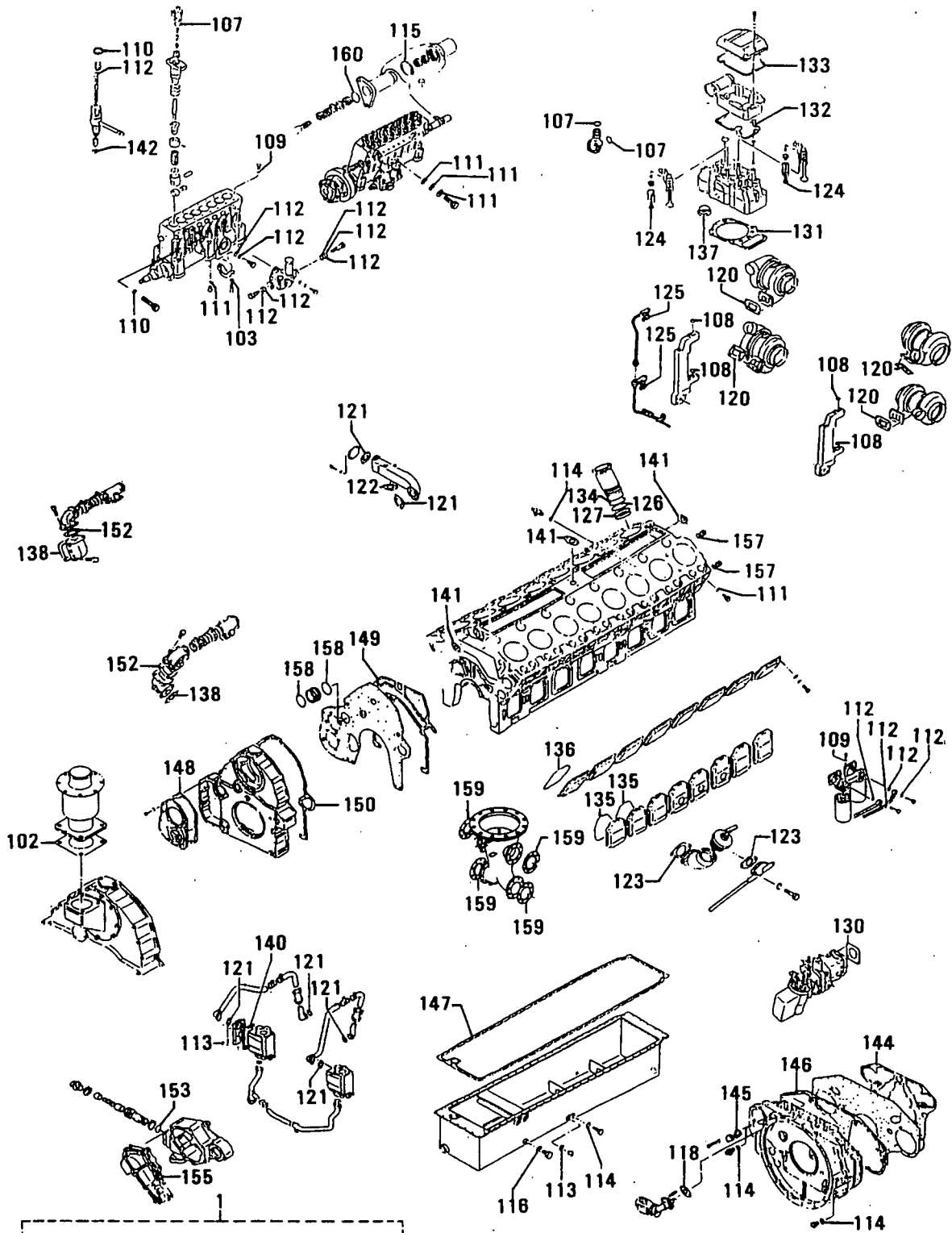
94-01 OVERHAUL GASKET KIT (PART-1)

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FF NO.	PART NO.	RIS P/GEN C/G	PART NAME & DESCRIPTION	MODEL & QTY			APPLICABLE SERIAL NO.		MV R/D
				PTAA2			FROM@-	-@UPTO	
1	37894-60100		GASKET KIT, OVERHAUL	1					
101	04829-70650		GASKET NOT SHOWN	1					A
102	04829-70800		GASKET	1					A
103	05507-00080		O-RING	4					A
104	05507-10110		O-RING NOT SHOWN	5					A
105	05507-10200		O-RING NOT SHOWN	2					A
106	05507-10460		O-RING NOT SHOWN	8					A
107	05507-20250		O-RING	24					A
108	05507-20300		O-RING	4					A
109	05946-00801		WASHER, SEALING	10					A
110	05946-01001		WASHER, SEALING	35					A
111	05946-01201		WASHER, SEALING	26					A
112	05946-01401		WASHER, SEALING	28					A
113	05946-01601		WASHER, SEALING	3					A
114	05946-02001		WASHER, SEALING	6					A
115	05946-02701		WASHER, SEALING	4					A
116	05946-03601		WASHER, SEALING	2					A
117	31275-74400		O-RING NOT SHOWN	1					A
118	30625-50501		GASKET	1					A
119	35A30-00100		O-RING NOT SHOWN	8					A
120	32532-09100		GASKET, TURBOCHARGER	4					
121	32546-36800		GASKET	6					A
122	33336-10500		PACKING	2					A
123	33442-10200		PACKING	3					A
124	33504-10300		SEAL	64					A
125	36236-00700		PACKING	4					A
126	37107-04200		O-RING, LINER	16					
127	37107-04300		O-RING, LINER	32					
128	32532-01700		GASKET, JOINT NOT SHOWN	40					A
129	37707-07200		PACKING, SIDE COVER NOT SHOWN	1					A
130	37463-21900		PACKING	1					A
131	37501-92100		GASKET, CYLINDER HEAD	16					A
132	37504-21200		PACKING, ROCKER CASE	16					A
133	37504-56200		O-RING, ROCKER COVER	16					
134	37507-32400		O-RING, CYL LINER	16					
135	37507-37300		O-RING, SIDE COVER	16					A
136	37507-37600		O-RING, CAM ROOM	16					A
137	37530-00200		PACKING, INLET PORT	16					A
138	37532-10500		GASKET, EXHAUST	16					A
139	37536-07911		PACKING NOT SHOWN	1					A
140	37546-13300		PACKING, COVER	2					
141	37555-00600		GASKET	5					A
142	37561-16800		GASKET, NOZZLE	16					A
143	37562-00816		GASKET NOT SHOWN	2					A
144	37711-10200		PACKING, REAR	1					
145	37711-03200		PACKING	2					A
146	37711-25400		PACKING, REAR	1					
147	37813-00200		PACKING	1					A
148	37725-20600		PACKING	1					A
149	37725-30200		PACKING, FRONT	1					

94-01 OVERHAUL GASKET KIT (PART-1)

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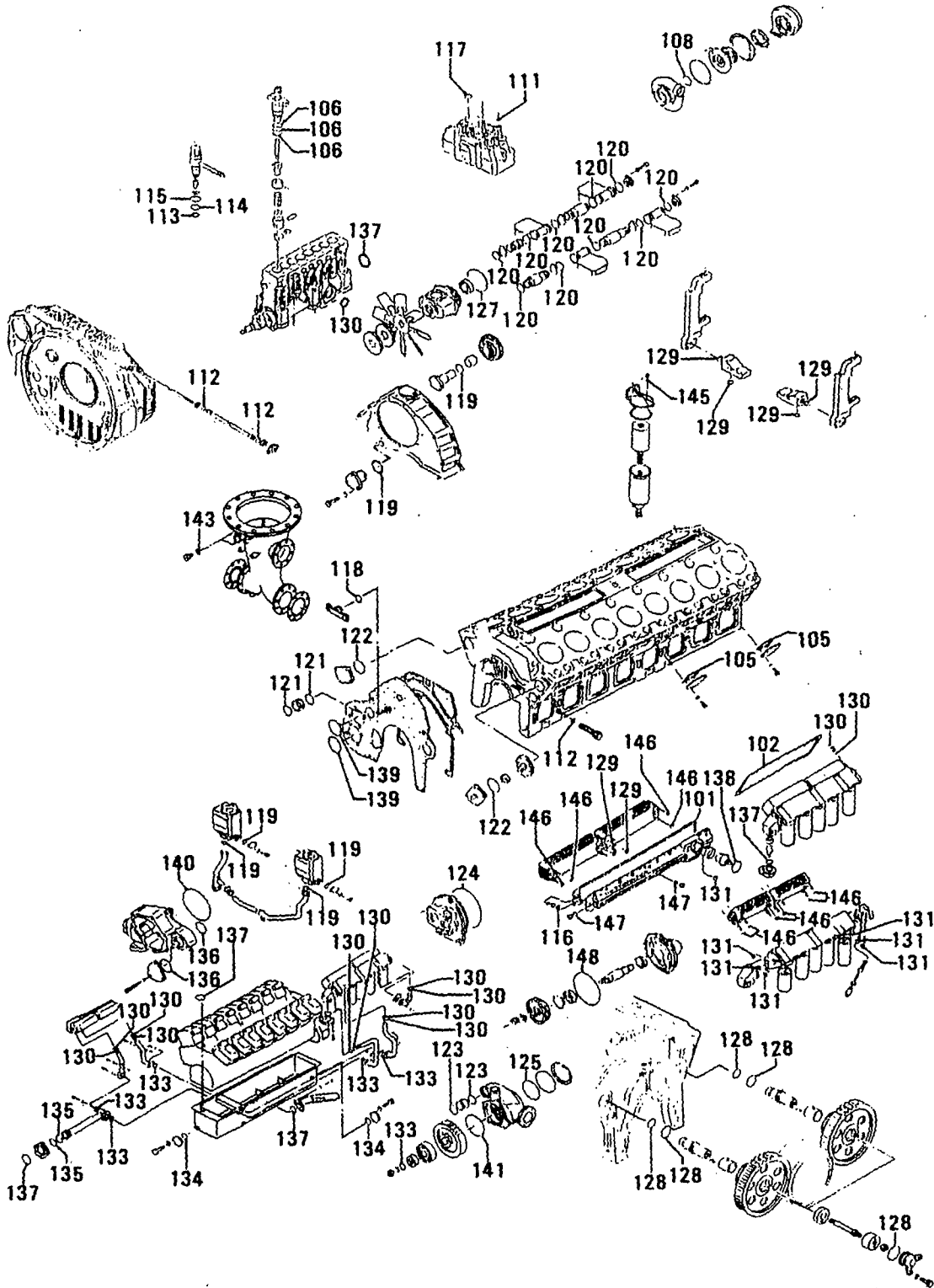


GROUP NO. 94-01 : REF. NO. 101-160  
 GROUP NO. 94-02 : REF. NO. 101-151



94-02 OVERHAUL GASKET KIT (PART-2)

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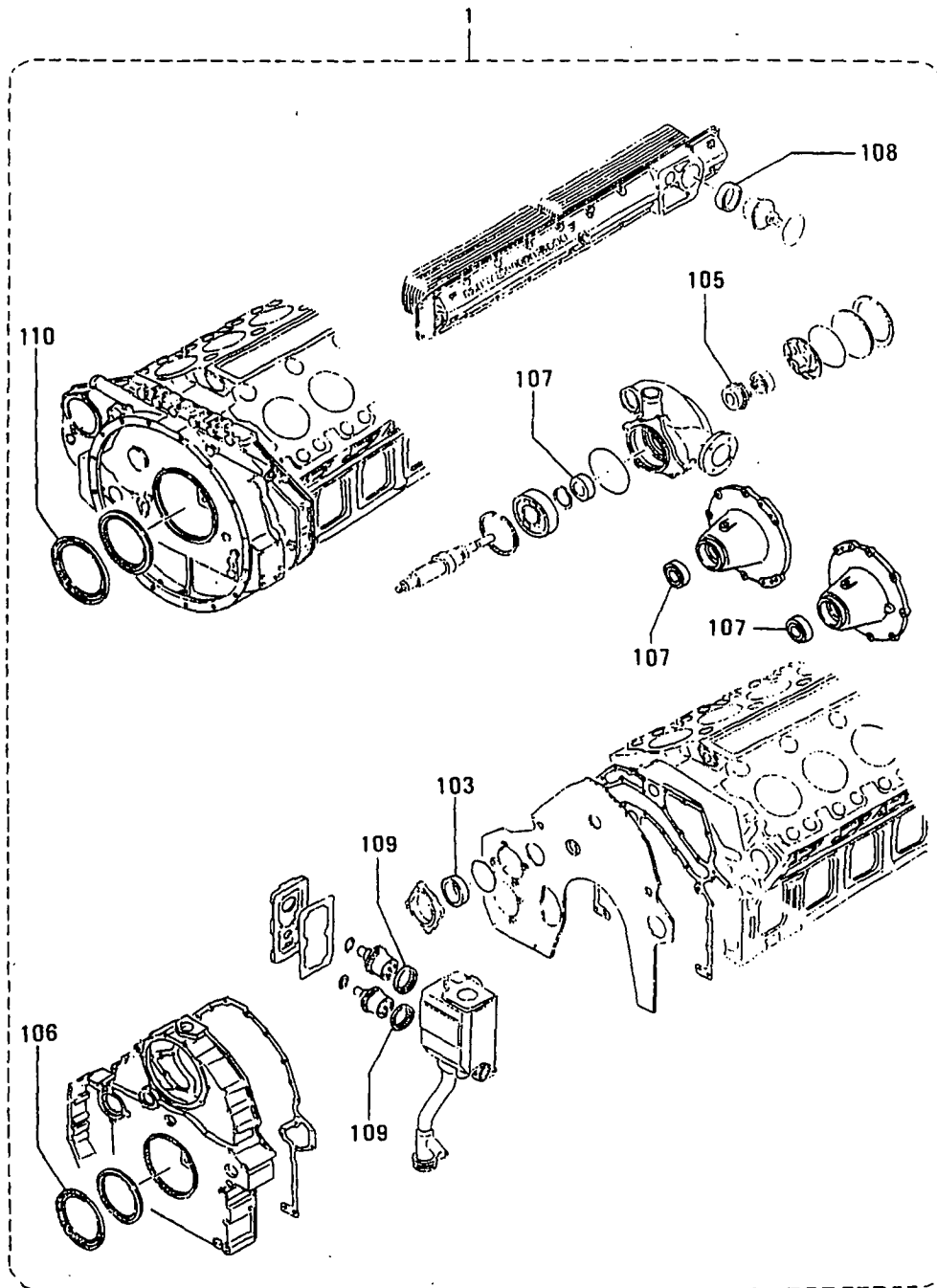


94-02 OVERHAUL GASKET KIT (PART-2)

-129-

REF. NO.	PART NO.	DESC P QG	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		MVRD
				PTAA2			FROM@-	-@UPTO	
101	37739-00200		PACKING,OIL COOLER	1					
102	37739-12200		GASKET,OIL COOLER	1					
103	37855-00300		GASKET NOT SHOWN	4					A
104	37775-04200		PACKING NOT SHOWN	1					A
105	37807-06200		PACKING	4					A
106	48202-12400		O-RING	48					A
107	F3156-12000		O-RING NOT SHOWN	4					A
108	49181-22600		O-RING	4					A
109	49181-22700		O-RING NOT SHOWN	4					A
110	F3150-01400		O-RING NOT SHOWN	4					A
111	05507-00200		O-RING	16					A
112	05507-00220		O-RING	20					A
113	F3150-02600		O-RING	16					A
114	F3150-03400		O-RING	20					A
115	F3150-04200		O-RING	16					A
116	F3150-04400		O-RING	1					A
117	F3153-04000		O-RING	16					A
118	F3153-04500		O-RING	1					A
119	F3153-06000		O-RING	5					A
120	F3153-06500		O-RING	34					A
121	F3153-07500		O-RING	5					A
122	F3153-09500		O-RING	2					A
123	F3153-10500		O-RING	2					A
124	F3153-14500		O-RING	1					A
125	F3153-17000		O-RING	1					A
126	F3153-25000		O-RING NOT SHOWN	2					A
127	F3153-29000		O-RING	1					A
128	05507-20600		O-RING	6					A
129	F3156-03000		O-RING	16					A
130	F3156-03500		O-RING	27					A
131	F3156-04000		O-RING	7					A
132	05507-20450		O-RING NOT SHOWN	2					A
133	F3156-05000		O-RING	6					A
134	F3156-06000		O-RING	3					A
135	F3156-06500		O-RING	1					A
136	F3156-07500		O-RING	2					A
137	F3156-08000		O-RING	7					A
138	F3156-08500		O-RING	1					A
139	F3156-12500		O-RING	2					A
140	F3156-14500		O-RING	1					A
141	F3156-16000		O-RING	1					A
142	F4202-14000		GASKET NOT SHOWN	32					A
143	F4202-27000		GASKET	6					A
144	MF660040		GASKET NOT SHOWN	2					A
145	MH035067		PACKING	1					A
146	05507-00140		O-RING	16					A
147	MH035093		O-RING	3					A
148	37525-03600		O-RING	2					A
149	05507-10100		O-RING NOT SHOWN	4					A
150	37594-01300		BOND,1211 NOT SHOWN	1					A

# 94-03 OIL SEAL KIT



94-03 OIL SEAL KIT

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REF. NO.	PART NO.	R/S P/EN G	PART NAME & DESCRIPTION	MODEL&QTY			APPLICABLE SERIAL NO.		M/V R/D
				PTAA2			FROM@-	-@UPTO	
1	37794-32100		SEAL KIT,OIL	1					A
101	F3003-01831		SEAL,OIL NOT SHOWN	1					A
102	F3012-05223		SEAL,OIL NOT SHOWN	1					A
103	F3015-06523		SEAL,OIL	1					A
104	F3019-03523		SEAL,OIL NOT SHOWN	2					A
105	37145-16200		SEAL,UNIT	1					A
106	37511-04300		SEAL,OIL	1					A
107	37525-03400		SEAL,OIL	3					A
108	37546-00800		SEAL,THERMOSTAT	2					
109	37546-01800		SEAL,THERMOSTAT	4					
110	37711-04300		SEAL,OIL	1					A



NUMERICAL PARTS INDEX

PART NO.	GRP NO.	PAGE	REF. NO.	PART NO.	GRP NO.	PAGE	REF. NO.	PART NO.	GRP NO.	PAGE	REF. NO.
A383X-51570	68-02	115	109	F1035-12060	68-01	113	11	F1805-08020	63-01	101	16
A414X-19271	68-02	115	103	12065	07-03	13	16	08025	61-06	89	163
19371	68-02	115	105	12070	40-02	59	123		61-07	93	163
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10045	61-04	81	48	14040	61-01	75	35		62-01	97	7
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	36-03	53	9	16065	33-01	43	18		46-02	69	7
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10090	40-02	59	131		14	19	8		43	63	7
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34A42-00500	42	61	2		04	5	18	20301	17	21	502
34A68-05100	68-02	115	2	11400	01	3	4	32100	17	21	11
05111	68-02	115	201	12501	01	3	7	32200	17	21	12
05112	68-02	115	202	60050	01	3	1	32300	17	21	13
05113	68-02	115	203	92100	01	3	6	32400	17	21	14
34461-07700	61-01	75	25		94-01	125	131	32500	17	21	15
	61-02	77	28	37504-00300	04	5	3	37522-02300	20	23	1201
	63-03	105	8	04201	04	5	20	02400	20	23	1202
35A30-00100	94-01	125	119	10400	04	5	4	37525-03400	25-02	31	15
35A61-28600	61-02	77	19	12020	04	5	11	45	65	112	
	63-03	105	5	13100	04	5	6		94-03	131	107
38300	87	119	2	13200	04	5	7	03600	25-02	31	2
38400	87	119	5	14600	04	5	22		94-02	129	148
36207-08900	07-02	11	19	16100	04	5	23	43100	25-02	31	1
36236-00700	36-03	53	4	21200	04	5	13	37530-00200	30	35	1
	94-01	125	125		94-01	125	132		94-01	125	137
36243-00010	43	63	5	30200	04	5	1	37532-00800	32-01	37	3
36646-00090	46-01	67	12	31100	04	5	12	10500	32-01	37	2
37101-10600	01	3	204	32500	04	5	1104		94-01	125	138
37104-02800	04	5	1102	34010	04	5	19	27100	32-03	41	1
13300	04	5	8	56200	04	5	24	37535-02300	35	47	114
37107-04200	07-02	11	8		94-01	125	133	12200	35	47	115
	94-01	125	126	37505-10800	05	7	6	37536-07911	94-01	125	139
04300	07-02	11	9	13100	05	7	9	37540-01101	40-02	59	111
	94-01	125	127	31100	05	7	8	02100	40-02	59	112
37113-10800	07-03	13	23	37507-00701	07-01	9	11	08500	63-02	103	10
37123-03400	25-01	27	2201		39	55	2	08511	63-02	103	1012
37125-25602	25-02	31	10	02500	07-02	11	4	37545-00200	45	65	102
37136-09100	61-01	75	1	02510	07-02	11	5	00300	45	65	107
37145-16200	45	65	106	02520	07-02	11	6	37546-00800	36-02	51	2
	94-03	131	105	03100	07-01	9	6		94-03	131	108
37161-21612	61-03	79	104	03200	07-01	9	7	00900	46-01	67	10
37191-03300	91	121	3	03900	07-01	9	8	01800	46-01	67	9
37261-01700	61-05	85	13	17100	07-03	13	6		94-03	131	109
	62-01	97	28	17200	07-03	13	7	03500	46-01	67	21
01800	61-05	85	14	19100	07-03	13	25	11200	46-01	67	6
	62-01	97	29	27401	07-03	13	12	11300	46-01	67	5
37411-02300	11	15	4	27801	07-03	13	13	13300	46-01	67	14
04200	11	15	15	32400	07-02	11	7		94-01	125	140
37420-10300	20	23	204		94-01	125	134	13700	46-01	67	11
11202	20	23	205	32600	07-02	11	3	17100	46-01	67	13
37425-08200	25-01	27	20	37300	07-03	13	9	21700	46-01	67	8
37432-14700	32-02	39	15		94-01	125	135	37555-00600	07-03	13	26
37461-00500	61-02	77	7	37600	07-03	13	14	30	35	3	
37463-02400	11	15	24		94-01	125	136		94-01	125	141
21900	63-01	101	21	37511-04300	25-01	27	21	37561-00500	61-01	75	42
	94-01	125	130		94-03	131	106	01602	61-04	81	1
37493-00300	04	5	29	37517-08101	17	21	2	01800	25-01	27	31
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09300	61-03	79	112	10040	07-02	11	25	12100	20	23	208
11900	61-01	75	18	10050	07-02	11	26	14101	68-01	113	23
13500	61-04	81	8	18100	07-02	11	27	15300	25-02	31	6
13600	61-04	81	9	18200	07-02	11	28	17200	25-03	33	8
16300	61-03	79	107	18300	07-02	11	29	18000	25-01	27	19
16600	61-03	79	106	18400	07-02	11	30	20600	25-01	27	32
16800	61-04	81	5	37711-03200	11	15	19		94-01	125	148
	94-01	125	142		94-01	125	145	21010	25-01	27	1
17100	61-03	79	101	04000	11	15	14	22301	25-01	27	28
22901	61-01	75	27	04300	11	15	16	30200	25-01	27	2
26400	61-03	79	108		94-03	131	110		94-01	125	149
42800	61-01	75	22	10200	11	15	5	40400	25-01	27	4
46500	61-03	79	111		94-01	125	144		94-01	127	150
46700	61-03	79	109	13100	11	15	18	40500	25-01	27	30
67013	61-03	79	110	25010	11	15	1	70301	25-01	27	3
76100	61-03	79	113	25301	11	15	6	37730-01500	94-01	127	151
97000	61-03	79	1	25400	11	15	7	37732-02600	32-01	37	13
97010	61-03	79	102		94-01	125	146	09501	32-03	41	14
37562-00816	94-01	125	143	37714-12201	14	19	7	10900	32-01	37	8
02900	61-04	81	30	20100	14	19	1		94-01	127	152
03100	61-04	81	32	22101	14	19	6	13800	32-01	37	11
	61-04	81	46	37719-10200	17	21	504	18400	32-03	41	23
10111	62-02	99	101	30011	17	21	5	18500	32-03	41	24
15900	61-04	81	33	30021	17	21	6	21100	32-01	37	1
30100	62-02	99	1	30031	17	21	7	27100	32-03	41	13
37563-03501	63-01	101	8	30041	17	21	8	27800	32-03	41	29
03600	63-01	101	9	30051	17	21	9	27900	32-03	41	30
05400	61-02	77	20	30061	17	21	10	53100	32-01	37	4
07600	63-02	103	3	37720-00300	20	23	206	53200	32-01	37	5
13300	63-01	101	6	03100	48	73	10	53700	32-01	37	10
13400	63-01	101	7	37721-10011	20	23	4	37733-03800	33-01	43	3
14500	63-03	105	1	20200	20	23	6	03900	33-01	43	4
37568-02021	68-01	113	8	37722-00801	20	23	10	07100	32-03	41	9
22200	68-01	113	803	01200	20	23	13	07600	32-03	41	19
22300	68-01	113	804	10500	20	23	22	07700	32-03	41	20
37571-01500	71	117	5	37723-03800	23	25	5	17200	32-03	41	10
10300	71	117	2	04500	23	25	2	37735-03100	35	47	6
37594-01300	94-02	129	150	04600	23	25	3	10900	35	47	116
37598-05800	17	21	4	04900	23	25	9		94-01	127	153
37707-01700	07-01	9	203	10100	20	23	207	11900	94-01	127	154
01900	07-01	9	3	11100	23	25	11	21800	35	47	117
07200	94-01	125	129	12100	23	25	12	30300	35	47	108
08041	07-02	11	20	13400	23	25	101	30700	94-01	127	155
08500	07-02	11	21	14700	23	25	8	30701	35	47	110
09300	30	35	2	23020	23	25	1	40400	35	47	109
11800	07-01	9	205	37725-00801	25-01	27	39	48020	35	47	111
20901	07-03	13	1	00902	25-01	27	40	62000	35	47	105
37709-10010	07-02	11	22	02200	45	65	105	71000	35	47	101
10020	07-02	11	23	03010	25-01	27	22	90010	35	47	1

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	61-05	85	9	00501	25-01	27	16	02700	68-01	113	18
	62-01	97	19	01100	46-01	67	1	02800	68-01	113	20
02500	36-01	49	8	01200	46-01	67	2	04200	68-01	113	13
03400	36-01	49	4	01300	46-01	67	3	12100	68-01	113	1
07900	63-02	103	24	04400	46-02	69	8	12200	68-01	113	5
08500	63-01	101	22	04800	46-02	69	6	18300	68-01	113	9
10101	36-01	49	1	13401	46-01	67	16	22500	68-01	113	14
11300	36-02	51	12	13501	46-01	67	17	37771-00101	71	117	1
13800	36-01	49	24	24300	46-02	69	5	37775-04200	94-02	129	104
13900	36-01	49	25	37748-08200	48	73	11	37787-03200	87	119	22
17800	63-02	103	23	11600	48	73	4	03300	87	119	20
18300	63-02	103	28	37761-03601	61-04	81	39	21200	87	119	8
19300	07-02	11	1	03701	61-04	81	40	37794-32100	94-03	131	1
21200	36-02	51	3	04100	61-05	85	1	37799-29101	32-01	37	6
23700	36-01	49	20	05300	61-04	81	31	29102	32-01	37	7
24300	40-01	57	22		61-04	81	47	37805-10300	05	7	1
33600	36-01	49	16	06200	61-02	77	4	10400	05	7	2
34200	36-02	51	8	07700	61-02	77	35	37807-06100	07-03	13	18
37400	63-02	103	1	08300	61-04	81	41	06200	07-03	13	19
37700	63-02	103	5	08400	61-02	77	9		94-02	129	105
37739-00200	39	55	4	11800	61-01	75	17	07200	07-03	13	8
	94-02	129	101	17100	61-02	77	1	20010	07-01	9	1
10101	39	55	101	17501	61-02	77	33	37813-00200	13	17	3
12100	40-01	57	2	17600	61-02	77	34		94-01	125	147
12200	40-01	57	1	17800	61-02	77	36	30101	13	17	1
	94-02	129	102	18700	61-02	77	24	37820-00500	20	23	3
12300	40-01	57	3	18800	61-02	77	25	20010	20	23	1
20300	39	55	102	21600	61-01	75	37	37822-01010	20	23	12
20500	36-02	51	1	47200	61-02	77	10	37832-04101	33-01	43	9
30010	39	55	1	57300	61-02	77	13	04800	32-02	39	12
37740-00700	40-01	57	17	61700	61-01	75	12	05300	32-02	39	13
01700	40-02	59	106	37762-00501	62-01	97	9	05400	32-02	39	14
06010	40-02	59	113	02900	61-05	85	19	08300	32-03	41	5
17112	40-02	59	104	10300	62-01	97	6	14200	33-01	43	13
17113	40-02	59	105	12600	61-05	85	10	14300	32-02	39	2
40011	40-02	59	1	12800	61-05	85	18		94-01	127	159
45101	40-02	59	101	13100	61-01	75	28	15900	32-03	41	25
50300	40-02	59	116	20400	62-01	97	3	16100	32-03	41	26
50312	40-02	59	118	32100	62-01	97	22	18101	32-03	41	3
50313	40-02	59	119	32500	61-05	85	8	18201	32-03	41	4
50314	40-02	59	120	41400	62-01	97	17	24500	32-02	39	1
50315	40-02	59	121	37763-05300	63-02	103	19	24700	32-02	39	8
55400	40-02	59	115	05400	63-02	103	6	37833-06300	32-03	41	31
37743-30100	48	73	1	15100	63-01	101	1	06400	32-03	41	21
37745-10600	45	65	113	15200	63-02	103	15	06500	32-03	41	22
10700	45	65	114	37765-00200	66	111	1	06600	32-03	41	27
20400	45	65	103	03200	11	15	2	06700	32-03	41	28
20501	45	65	104	37768-02300	68-01	113	805	37836-15101	36-03	53	1
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25900	36-03	53	7	45735-51100	13	17	6	09500	61-06	89	188
26100	36-03	53	12	45764-75201	32-01	37	14		61-07	93	188
26600	36-03	53	15		32-02	39	6	11700	61-06	87	114
26700	36-03	53	16	45940-30100	61-02	77	31		61-07	91	114
36200	36-03	53	13	45950-11300	61-05	85	26	12200	61-06	87	118
56400	36-03	53	17		62-01	97	35		61-07	91	118
66300	36-03	53	18	51700	61-05	85	24	12400	61-06	87	120
37842-13500	42	61	5		62-01	97	8		61-07	91	120
37855-00300	94-02	129	103	45954-30050	07-02	11	17		94-02	129	106
37861-01800	61-04	81	26	47500-34100	87	119	25	13500	61-06	87	130
04200	61-05	85	2	36700	87	119	26		61-07	91	130
11500	61-01	75	32	55701	25-02	31	16	14100	61-06	87	134
11600	61-01	75	33	47520-25800	87	119	21		61-07	91	134
31100	61-01	75	3	48000-96600	61-01	75	26	14200	61-06	87	135
42100	61-04	81	10		61-02	77	29		61-07	91	135
42200	61-04	81	11		61-06	87	128	14300	61-06	87	136
42300	61-04	81	12		61-07	91	128		61-07	91	136
42400	61-04	81	13		63-03	105	9	14400	61-06	87	137
42500	61-04	81	14	48202-01800	61-06	87	115		61-07	91	137
42600	61-04	81	15		61-07	91	115	18100	61-06	87	108
42700	61-04	81	16	01900	61-06	87	116		61-07	91	108
42800	61-04	81	17		61-07	91	116	21201	61-06	87	111
43100	61-04	81	18	02300	61-06	87	119		61-07	91	111
43200	61-04	81	19		61-07	91	119	21300	61-06	87	112
43300	61-04	81	20	02600	61-06	87	122		61-07	91	112
43400	61-04	81	21		61-07	91	122	22500	61-06	87	121
43500	61-04	81	22	02900	61-06	87	125		61-07	91	121
43600	61-04	81	23		61-07	91	125	22800	61-06	87	124
43700	61-04	81	24	03010	61-06	89	185		61-07	91	124
43800	61-04	81	25		61-07	93	185	23800	61-06	87	132
37862-04200	62-01	97	26	04500	61-06	87	138		61-07	91	132
11300	62-01	97	16		61-07	91	138	29100	61-06	89	178
11700	62-01	97	21	04600	61-06	87	139		61-07	93	178
21100	62-01	97	14		61-07	91	139	33600	61-06	87	131
21500	62-01	97	18	04700	61-06	87	140		61-07	91	131
21600	62-01	97	20		61-07	91	140	33900	61-06	87	133
31200	62-01	97	15	04800	61-06	87	141		61-07	91	133
37893-01100	04	5	27		61-07	91	141	34000	61-06	87	129
37894-60100	94-01	125	1	04900	61-06	87	142		61-07	91	129
37899-80420	47	71	1		61-07	91	142	35900	61-06	87	109
83001	87	119	1	05100	61-06	87	143		61-07	91	109
41255-30700	48	73	13	05200	61-07	91	143	48208-01400	61-06	89	184
42061-21800	61-02	77	22	05500	61-06	87	144		61-07	93	184
45R43-40101	43	63	1		61-07	91	144	02020	61-06	89	187
40201	43	63	2	05800	61-06	87	127		61-07	93	187
40400	43	63	6		61-07	91	127	10301	61-06	87	147
45298-20800	87	119	13	07100	61-06	89	170		61-07	91	147
	87	119	24		61-07	93	170	10400	61-06	87	148
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	61-07	93	186	22500	33-02	45	108	8256015	63-04	107	110
11200	61-06	87	146	22600	33-02	45	109	8256016	63-04	107	111
	61-07	91	146		94-02	129	108	8256017	63-04	107	112
20101	61-06	87	145	22700	94-02	129	109	825602	63-04	107	101
	61-07	91	145	22710	33-02	45	120	8256021	63-04	107	113
30700	61-06	89	151	23100	33-02	45	112	8256023	63-04	107	114
	61-07	93	151	23500	33-02	45	121	8256024	63-04	107	115
50500	61-06	87	149	23700	33-02	45	122	8256025	63-04	107	116
	61-07	91	149	42100	33-02	45	107	8256026	63-04	107	117
50600	61-06	89	150	42200	33-02	45	113	8256028	63-04	107	118
	61-07	93	150	42300	33-02	45	106	8256029	63-04	107	119
48210-00030	61-06	87	113	42400	33-02	45	105	8256030	63-04	107	120
	61-07	91	113	49182-07020	33-02	45	101	8256031	63-04	107	121
14100	61-06	87	110	17121	33-02	45	126	8256032	63-04	107	122
	61-07	91	110	17210	33-02	45	128	8256033	63-04	107	123
25600	61-06	87	117	17280	33-02	45	132	8256034	63-04	107	124
	61-07	91	117	17301	33-02	45	127	8256035	63-04	107	125
48213-20300	61-06	87	104	17620	33-02	45	129	8256037	63-04	107	126
	61-07	91	104	18000	33-02	45	134	8256038	63-04	107	127
30200	61-06	87	103	18200	33-02	45	133	8256042	63-04	107	128
	61-07	91	103	18300	33-02	45	131	8256043	63-04	107	129
48230-05100	61-01	75	10	19300	33-02	45	114	8256044	63-04	107	130
	61-06	89	175	25610	33-02	45	115	8256045	63-04	107	131
	61-07	93	175	30110	33-02	45	118	8256046	63-04	107	132
13010	61-06	87	107	45050	33-02	45	124	8256047	63-04	107	133
	61-07	91	107	53150	33-02	45	125	8256048	63-04	107	134
48240-11100	61-07	91	102	61150	33-02	45	136	8256049	63-04	107	135
48245-11100	61-06	87	102	49397-82601	33-01	43	20	8256050	63-04	107	136
48250-05300	61-06	89	183		33-02	45	1	8256051	63-04	107	137
	61-07	93	183	82602	33-01	43	21	8256052	63-04	107	138
05600	61-06	89	181		33-02	45	1	8256054	63-04	107	139
	61-07	93	181	82603	33-01	43	22	8256055	63-04	107	140
05700	61-06	89	180		33-02	45	1	8256056	63-04	107	141
	61-07	93	180	82604	33-01	43	23	8256057	63-04	107	142
05800	61-06	89	182		33-02	45	1	8256058	63-04	107	143
	61-07	93	182	51776-03000	61-02	77	30	8256059	63-04	107	144
48279-00000	61-07	91	1	56104-01300	07-02	11	18	8256060	63-04	107	145
48280-00000	61-06	87	1	63669-23400	32-03	41	15	8256061	63-04	107	146
48291-00301	61-06	89	179	64309-15300	91	121	122	8256062	63-04	107	147
	61-07	93	179	67352-01500	63-01	101	15	8256063	63-04	107	148
14001	61-06	87	101	70921-01460	66	111	124	8256064	63-04	107	149
	61-07	91	101	72312-00090	66	111	108	8256065	63-04	109	150
49126-60220	32-03	41	6	72335-10080	66	111	107	8256066	63-04	109	151
49162-23200	33-02	45	111	72378-00070	66	111	105	8256067	63-04	109	152
49174-22700	33-02	45	130	8256010	63-04	107	105	8256068	63-04	109	153
49181-14004	32-02	39	4	82560100	63-04	109	170	8256069	63-04	109	154
21100	33-02	45	103	8256011	63-04	107	106	825607	63-04	107	102
21600	33-02	45	104	8256012	63-04	107	107	8256070	63-04	109	155
22200	33-02	45	102	8256013	63-04	107	108	8256071	63-04	109	156

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8256078	63-04	109	160								
8256079	63-04	109	161								
825608	63-04	107	103								
8256080	63-04	109	162								
8256081	63-04	109	163								
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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	F1825-08025	F1035-08025	F1825-08050	F1035-08050
	F2515-06000		F2515-08000		F2515-08000
	F2500-06000		F2500-08000		F2500-08000
F1825-06035	F1035-06035	F1825-08030	F1035-08030	F1825-08055	F1035-08055
	F2515-06000		F2515-08000		F2515-08000
	F2500-06000		F2500-08000		F2500-08000
F1825-06055	F1035-06055	F1825-08035	F1035-08035	F1825-08085	F1035-08085
	F2515-06000		F2515-08000		F2515-08000
	F2500-06000		F2500-08000		F2500-08000
F1825-08012	F1035-08012	F1825-08038	F1035-08038	F1825-10014	F1035-10014
	F2515-08000		F2515-08000		F2515-10000
	F2500-08000		F2500-08000		F2500-10000
F1825-08016	F1035-08016	F1825-08040	F1035-08040	F1825-10016	F1035-10016
	F2515-08000		F2515-08000		F2515-10000
	F2500-08000		F2500-08000		F2500-10000
F1825-08020	F1035-08020	F1825-08045	F1035-08045	F1825-10020	F1035-10020
	F2515-08000		F2515-08000		F2515-10000
	F2500-08000		F2500-08000		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 F2515-10000 F2500-10000	F1825-12025	F1035-12025 F2515-12000 F2500-12000	F2005-10016	F1155-10016 F2515-10000
F1825-10030	F1035-10030 F2515-10000 F2500-10000	F1825-12030	F1035-12030 F2515-12000 F2500-12000	F2005-10020	F1155-10020 F2515-10000
F1825-10035	F1035-10035 F2515-10000 F2500-10000	F1825-12040	F1035-12040 F2515-12000 F2500-12000	F2005-10025	F1155-10025 F2515-10000
F1825-10040	F1035-10040 F2515-10000 F2500-10000			F2005-10030	F1155-10030 F2515-10000
F1825-10080	F1035-10080 F2515-10000 F2500-10000			F2005-10035	F1155-10035 F2515-10000
F1825-12020	F1035-12020 F2515-12000 F2500-12000			F2005-10040	F1155-10040 F2515-10000
				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				

