

HITACHI GENUINE PARTS

“HITACHI GENUINE PARTS” should be used exclusively for servicing your Hitachi engine.

“HITACHI 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 “HITACHI GENUINE PARTS” is always available at any of our authorized dealers, so do your ordering at your nearest dealer by specifying “HITACHI GENUINE PARTS”.

GUIDE FOR USE OF PARTS CATALOGUE

1. This Parts Catalogue contains complete lists of parts for the following Hitachi S12A2-Y1TAA1 basic engines.
2. This Parts Catalogue applies to the engines whose serial numbers are 22328-UP.
3. When ordering parts, give the Hitachi 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 replace ability -"G"-
The new part to be used in combination with the other part in place of an old part is indicated 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 C / E N P Q G	PART NAME & DESCRIPTION	MODEL&QTY				APPLICABLE SERIAL NO. FROM@- -@UPTO	M V / R D
				MP- T	MP- TA	MP- TA			
1	H32507-70010		CRANKCASE ASSY	1	1				
1 01	HF2846-14000		PIN,DOWEL	4	.	.			A
1 02	H32507-01400		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	H32507-02500	C	HANGER	1	1	1		-11285	
	H32507-02700	N 1	HANGER	1	1	1		11286-	V
3	H32507-04100	Q	SHIM	2	.	.		@11294	
	H32507-04100	1	SHIM	3	3	3		11295@	
4	HF1805-10025		BOLT,W/WASHER	2	2	2			A

See(8)-(a)Description codes

See(8)-(c)Specification codes

See(8)-(b)Description

See(6)Change codes.

See(2)Reference number.

See(4)Interchangeability serial 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 No.

NOTE:Some of model designations, number of variations and serial numbers, indicated above, are quoted from other parts catalogues.
Read these items of information as those for this parts catalogue.

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

HOW TO USE THIS PARTS CATALOGUE (to be referred to together with the former SAMPLE OF PARTS CATALOGUE)

(1)

01 CYLINDER HEAD

REF. -NO.	PART NO.	R P S E C O N G	PART NAME & DESCRIPTION	MODEL & QTY			APPLICABLE SERIAL NO.	M R D
				Y1TAA1				
1	H35A0100020		C HEAD ASSY, CYL	12			FROM@ - @UPTO	
	H3250180010	N1	HEAD ASSY, CYL	12			23062- -23061	V
2	*		HEAD SUB ASSY, CYL	12				
2:01	*		BALL, STEEL	12				
2:02	H0482622800		CAP, SEALING	72				

(2)

(3)

(4)(5)(6)

(7)

(8)

(9)

(10)

(11)(12)

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

(1) Compiling system

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

(2) Reference number

Abbreviated to "REF. No.", "this number is used to located 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 Hitachi parts.

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

(4) Interchangeability codes

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

PARTNO.	Code (R/P)	DESCRIPTION
A(Old) B(New)	R	B(new part) and A(old part) are mutually interchangeable
A(Old) B(New)	1	A(Old part) is not supplied.B(new part) can be substituted for A(Old part).
A(Old) B(New)	3	B(new part) can be substituted for A(old part). [A(old part) cannot be substituted for B(new part).]
A(Old) B(New)	N	B(new part) and A(old part) are not interchangeable.
A(Old) B(New)	G	B(new part) can be substituted for A(old part) in combination with other part(s). (For the parts to be combined, refer to the listing beginning with the page E1 at the end of this parts catalogue.)

(5) Sequence-of-change numbers

The parts are changed for improved quality or performance. Their changes are indicated in sequence by numerals (1.2.3...)

Blank : Original

1 : 1st change

2 : 2nd change

3 : 3rd change

(6) Change codes

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

A : Added part (a part entered into service)

C : Change of part number

D : Deleted part (a part applicable 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 hind pages of this general information chapter.

NOTE: The location 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	
BATT	BATTERY		GSKT	GASKET	
BRG	BEARING		GEN	GENERATOR	
B/PMP	BILGE PUMP		GOV	GOVERNOR	
BRKT	BRACKET		G/N	GROUP NUMBER	
BUSH	BUSHING		H/EXCH	HEAT EXCHANGER	
CARB	CARBURETOR		HEX	HEXAGON	
C/L	CENTERLINE		HYD	HYDRAULIC	
COMPR	COMPRESSOR		H=	HEIGHT	
CON-ROD	CONNECTING-ROD		IND	INDUSTRIAL	
C/MBR	CROSS-MEMBER		INJ	INJECTION	
CYL	CYLINDER		INSTAL	INSTALLATION	
DIA	DIAMETER		INST	INSTRUMENT	
DIFF	DIFFERENTIAL		INTLK	INTERLOCK	
DISTR	DISTRIBUTOR		JUNC	JUNCTION	
DR	DRIVE		KD	KNOCKDOWN	
D=	OUT DIAMETER		L.H	LEFT HAND	
			LUB	LUBRICATION	
			L=	LENGTH	

TABLE OF SYMBOLS & ABBREVIATIONS

SYMBOL	DESCRIPTION		SYMBOL	DESCRIPTION	
MANF	MANIFOLD		SYM	SYMBOL	
MAX	MAXIMUM		SYNCH	SYNCHRONIZER	
MIN	MINIMUM		SYS	SYSTEM	
MTR	MOTOR		TEMP	TEMPERATURE	
MTG	MOUNTING		TERM	TERMINAL	
NO.	NUMBER		T/CONV	TORQUE-CONVERTER	
OPT	OPTION		T/F	TRANSFER	
O/D	OVER DRIVE		T/M	TRANSMISSION	
O.S	OVERSIZE		T/HSG	TURBINE-HOUSING	
PTO	POWER TAKE-OFF		T/C	TURBOCHARGER	
P/S	POWER STEERING		T=	THICKNESS	
PRESS	PRESSURE		U/BODY	UNDERBODY	
P/N	PART NUMBER		U.S	UNDERSIZE	
QTY	QUANTITY		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				
STD	STANDARD				
SUPT	SUPPORT				

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

BAS or ZXL	Bosch Automotive Systems Corp. (OLD: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.	MPC	Mikuni Precision Co., Ltd.
NKC	Nikko Electric Industry Co., Ltd.	W/W	Woodward Governor(JAPAN), Ltd.

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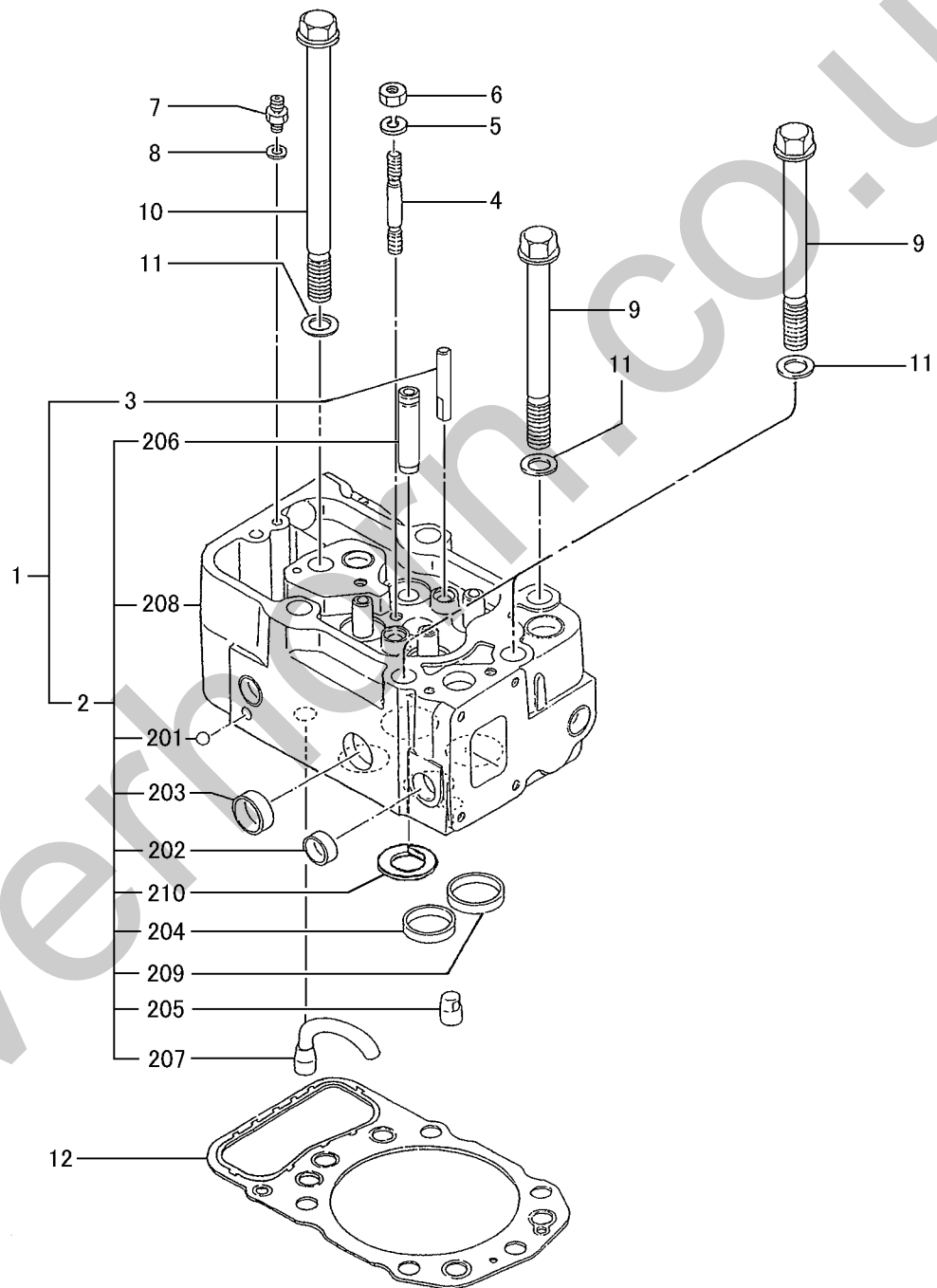
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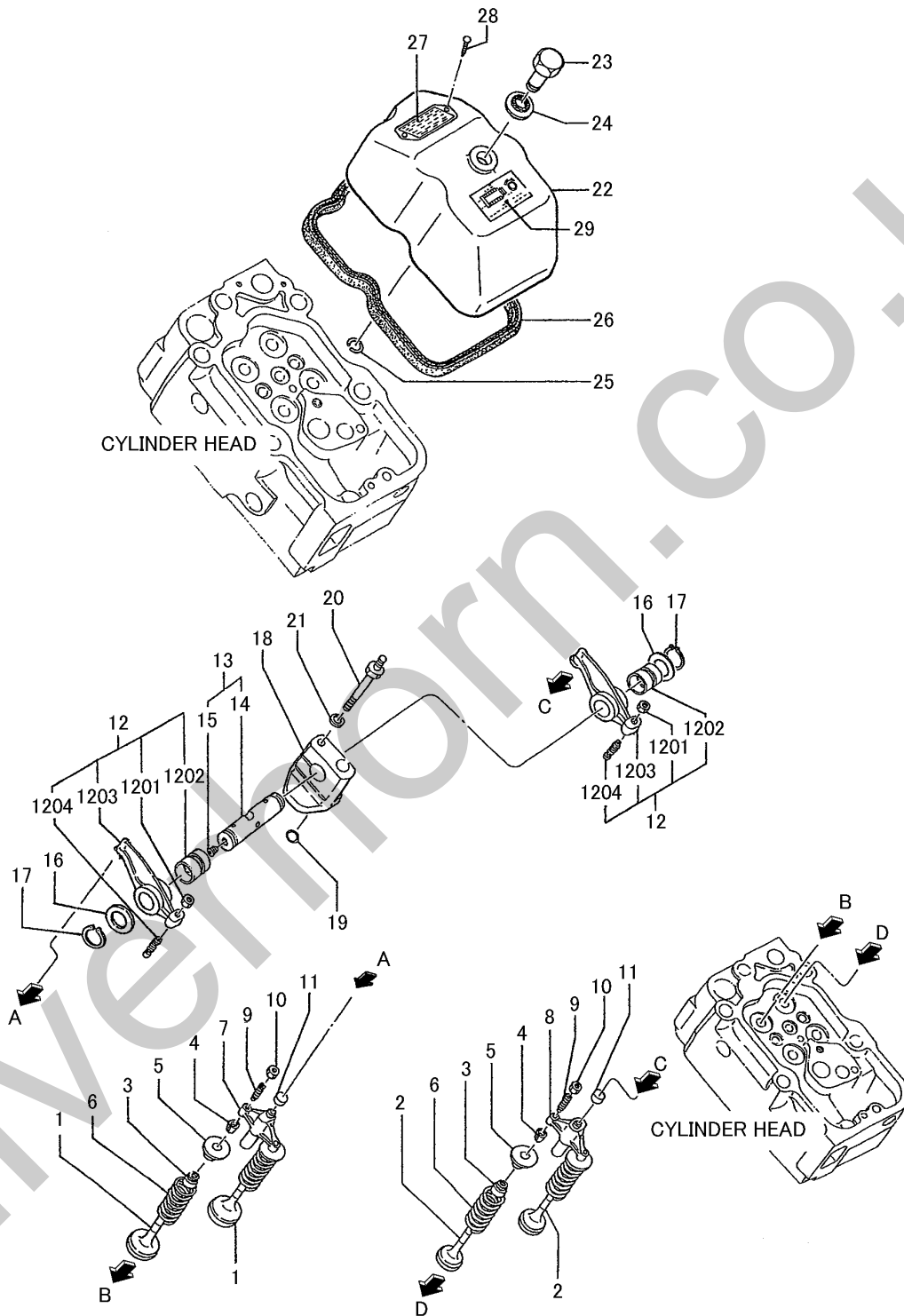
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01 CYLINDER HEAD

2

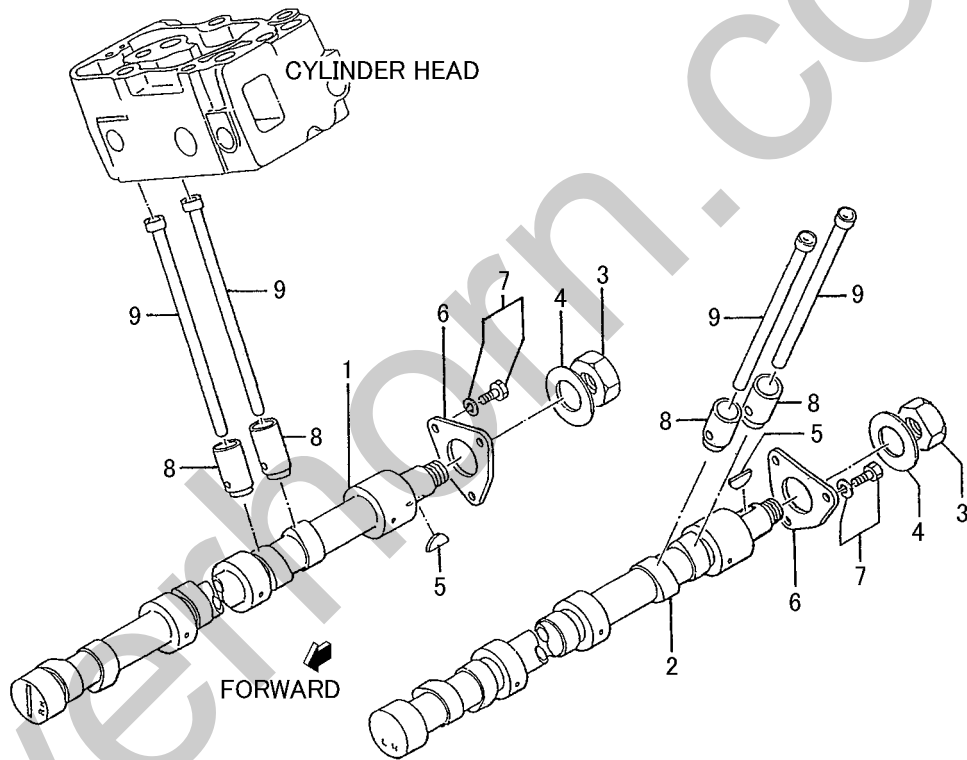


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REF. NO. 4 IS AVAILABLE IN A SET WITH PAIR

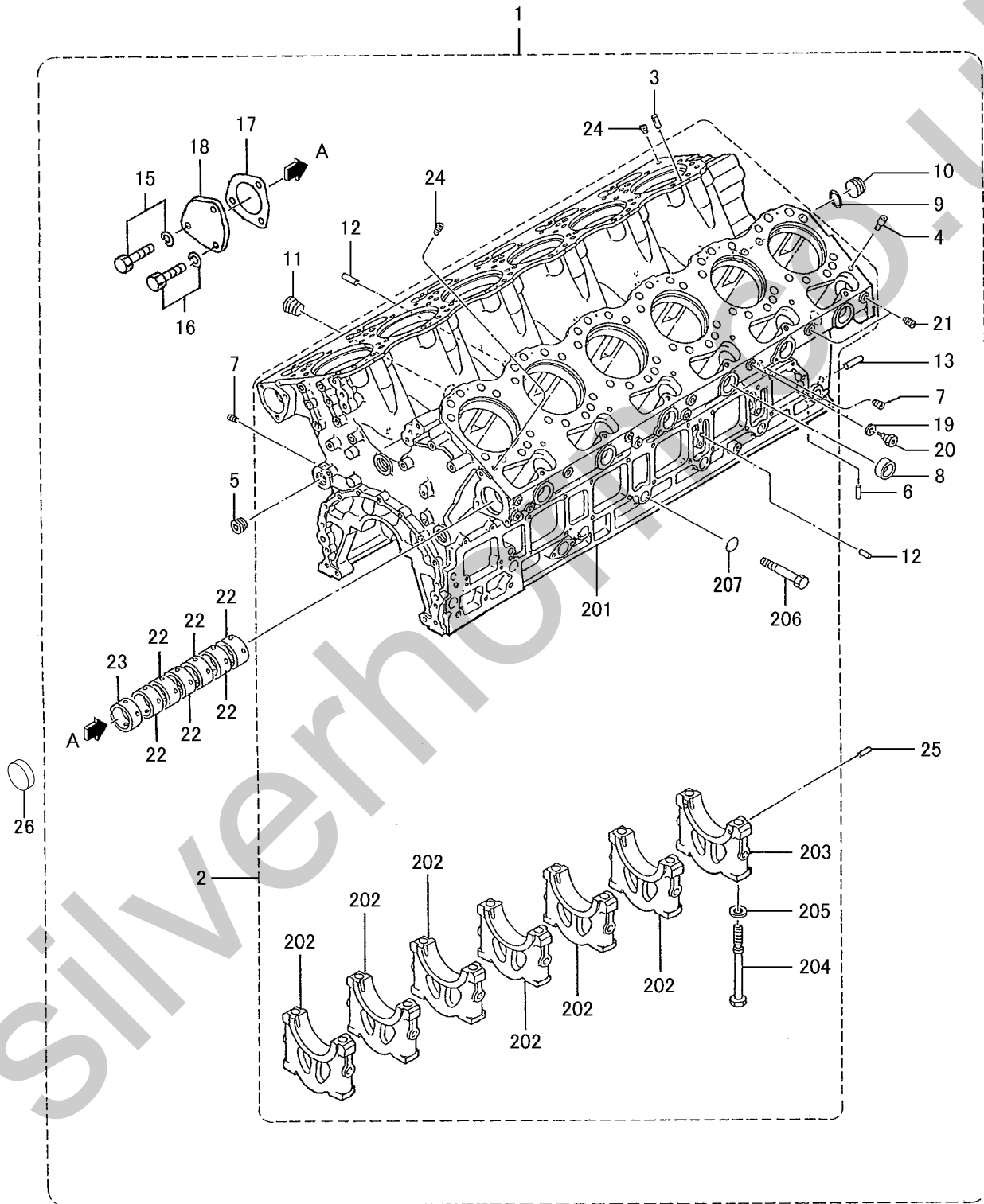
REF. -NO.	PART NO.	R / P	SC EN G	PART NAME & DESCRIPTION	MODEL & QTY			APPLICABLE SERIAL NO.		V R D	M / R
					Y1TAA1			FROM@-	-@UPTO		
1	H3250400200			VALVE,INLET	24						
2	H3250411201			VALVE,EXHAUST	24						
3	H3350410300			SEAL,VALVE STEM	48						A
4	H3250400400			COTTER	96						A
5	H3750400300			ROTATOR	48						
6	H3250400500			SPRING,VALVE	48						A
7	H3250443100			BRIDGE,INLET	12						
8	H3250443200			BRIDGE,EXHAUST	12						
9	H3710413300			SCREW,ADJUSTING	24						
10	HF230510000			NUT	24						A
11	H3000424302			CAP	24						
12	H3250442010			ROCKER ASSY	24						
12:01	HF230512000			NUT,LOCK	24						A
12:02	H3250402300			BUSHING,ROCKER	24						
12:03	*			ROCKER	24						
12:04	H3710402800			SCREW,ADJUSTING	24						A
13	H3250424011			SHAFT ASSY,ROCKER	12						A
14	*			SHAFT,ROCKER	12						
15	HF500510001			PLUG,TAPERED	12						A
16	H3330404400			WASHER	24						A
17	HF320003200			RING,SNAP	24						A
18	H3250424701			BRACKET,ROCKER	12						
19	H0550710200			O-RING	12						A
20	H3250404900			BOLT	12						A
21	HF251512000			WASHER,SPRING	12						A
22	H3250416101			COVER,ROCKER	12						
23	H4000426200			SCREW	12						A
24	H3000416401			GASKET	12						A
25	H3000406301			RING,SNAP	12						A
26	H3250426500			PACKING,ROCKER COVER	12						A
27	*			PLATE,CAUTION	1						
28	H0066504064			RIVET	2						A
29	H3269300300			PLATE,CAUTION	1						



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07-01 CRANKCASE ASSY

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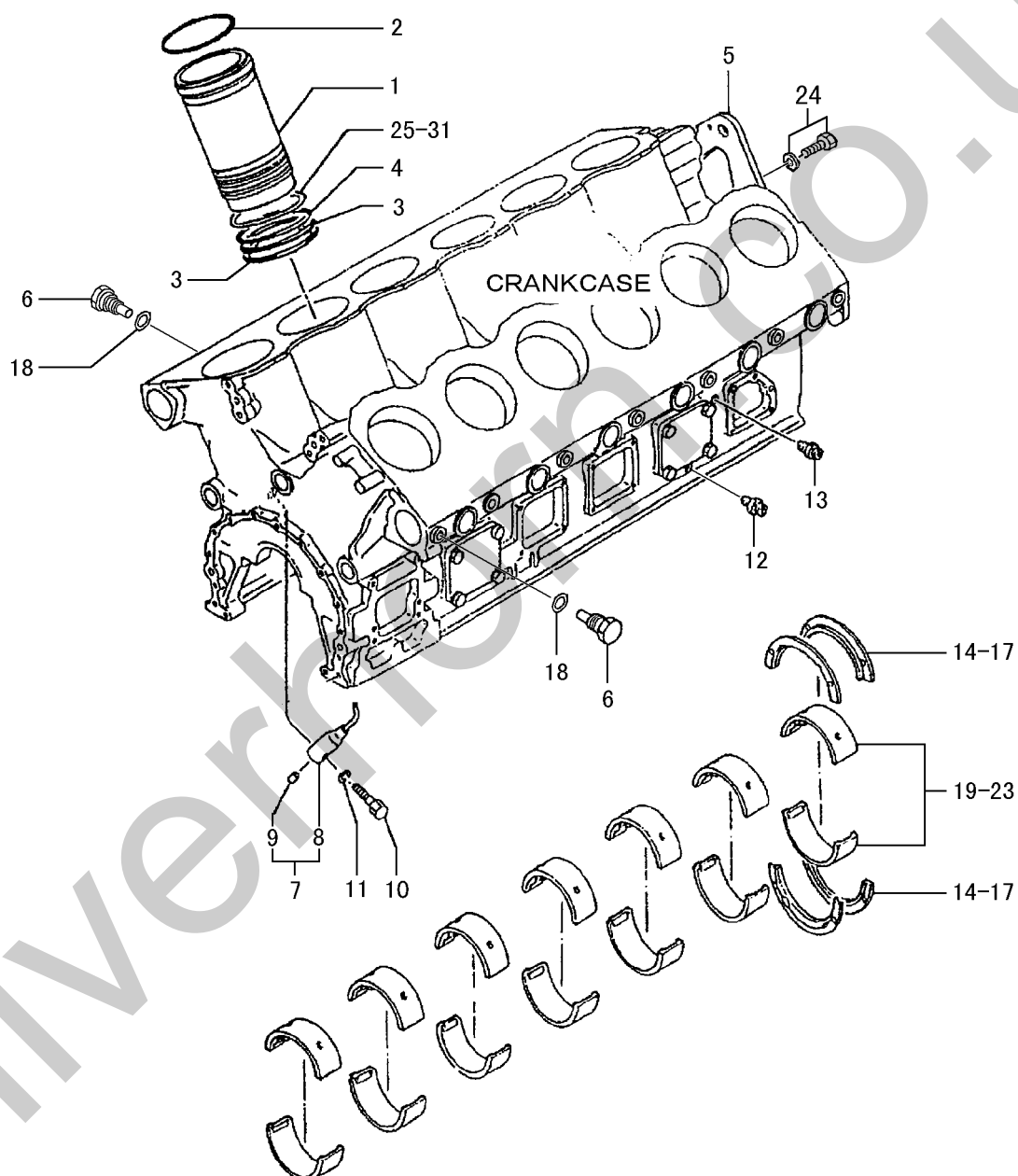
07-01 CRANKCASE ASSY

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REF. -NO.	PART NO.	R / P	SC EN Q	PART NAME & DESCRIPTION	MODEL & QTY			APPLICABLE SERIAL NO.		V R D	M / R
					Y1TAA1			FROM@-	-@UPTO		
1	H3260750030		C	CRANKCASE ASSY	1				-23044		
	H3260760030	N1		CRANKCASE ASSY	1			23045-			V
2	*			CRANKCASE SUB ASSY	1						
2:01	*			CRANKCASE	1						
2:02	*			CAP,MAIN BEARING	6						
2:03	*			CAP,MAIN BEARING	1						
2:04	H3260751600			BOLT,BEARING CAP	14						A
2:05	H3250701400			WASHER	14						A
2:06	H3270721500			BOLT,SIDE	14						
2:07	H0550710180			O-RING	14						A
3	HF285008016			PIN,SPRING	12						A
4	H3230702600			PIN,DOWEL	12						A
5	H0482790480			PLUG,TAPERED	3						
6	H3260702300			PIN,DOWEL	2						A
7	H0482771700			PLUG,TAPERED	11						A
8	H0482625000			CAP,SEALING	13						
9	H0550710340			O-RING	3						A
10	H3260710700			PLATE,PLUG	3						
11	H0482772100			PLUG,TAPER	12						A
12	HF284614000			PIN,DOWEL	10						A
13	H3230702500			PIN,DOWEL	2						A
15	HF200512020			BOLT,W/WASHER	1						A
16	HF200512025			BOLT,W/WASHER	2						A
17	H3252543400			PACKING	1						A
18	H3262501700			COVER	1						
19	H0594601001	Q		WASHER,SEALING	8				-23044		A
	H0594601001	1		WASHER,SEALING	10			23045-			
20	H3260703800	Q		SCREW	8				-23044		A
	H3260703800	1		SCREW	10			23045-			
21	H3250703700			SCREW	6						A
22	H3260703200			BUSHING,CAMSHAFT	12						
23	H3260703100			BUSHING,CAMSHAFT	2						
24	H0482771000			PLUG,TAPERED	5						A
25	H3300702600			PIN,DOWEL	4						A
26	HF501080000	A		PLUG,EXPANSION	1			23045-			V

07-02 CRANKCASE(PART-1)

10



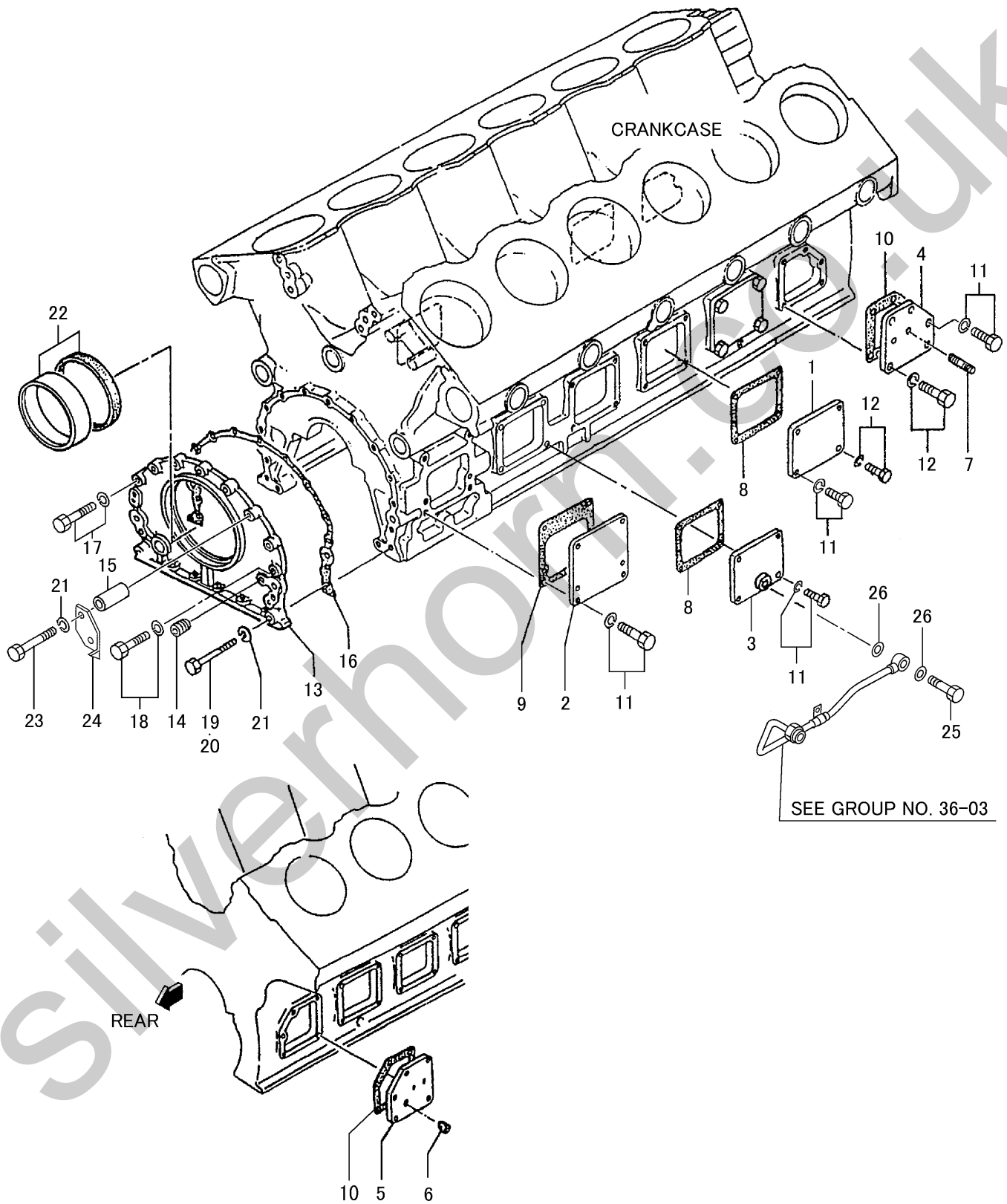
07-02 CRANKCASE(PART-1)

11

REF. -NO.	PART NO.	R / P	SC EN G	PART NAME & DESCRIPTION	MODEL & QTY			APPLICABLE SERIAL NO.		V R D	M / R
					Y1TAA1			FROM@-	-@UPTO		
1	H3250762400			LINER,CYLINDER	12						
2	H3250702800			O-RING,LINER	12						A
3	H3250702600			O-RING,LINER	24						
4	H3250702700			O-RING,LINER	12						
5	H3260735800			HANGER	1						
6	H3260703800			SCREW	8						A
7	H3250728701			NOZZLE ASSY,OILJET	1						
8	*			NOZZLE,OILJET	12						
9	H3111912201			VALVE,CHECK	12						
10	H3250730700			BOLT,SET	12						A
11	HF251510000			WASHER,SPRING	12						A
12	H3740702800			CONNECTOR	2						
13	H0043412011			CONNECTOR	1						
14	H3250928100			PLATE,THRUST	STD	4					A
15	H3250928200			PLATE,THRUST	O.S 0.25	4					A
16	H3250928300			PLATE,THRUST	O.S 0.50	4					A
17	H3250928400			PLATE,THRUST	O.S 0.75	4					A
18	H0594601001			WASHER,SEALING		8					A
19	H3250960010			BEARING SET,MAIN	STD	7					A
20	H3250960020			BEARING SET,MAIN	U.S 0.25	7					A
21	H3250960030			BEARING SET,MAIN	U.S 0.50	7					A
22	H3250960040			BEARING SET,MAIN	U.S 0.75	7					A
23	H3250960050			BEARING SET,MAIN	U.S 1.00	7					A
24	HF200512035			BOLT,W/WASHER	B/W	4					A
25	H35A0717500			RING,LINER	T=0.05	AR					
26	H35A0717100			RING,LINER	T=0.10	AR					
27	H35A0717600			RING,LINER	T=0.15	AR					
28	H35A0717200			RING,LINER	T=0.20	AR					
29	H35A0717700			RING,LINER	T=0.25	AR					
30	H35A0717300			RING,LINER	T=0.30	AR					
31	H35A0717400			RING,LINER	T=0.40	AR					

07-03 CRANKCASE(PART-2)

12



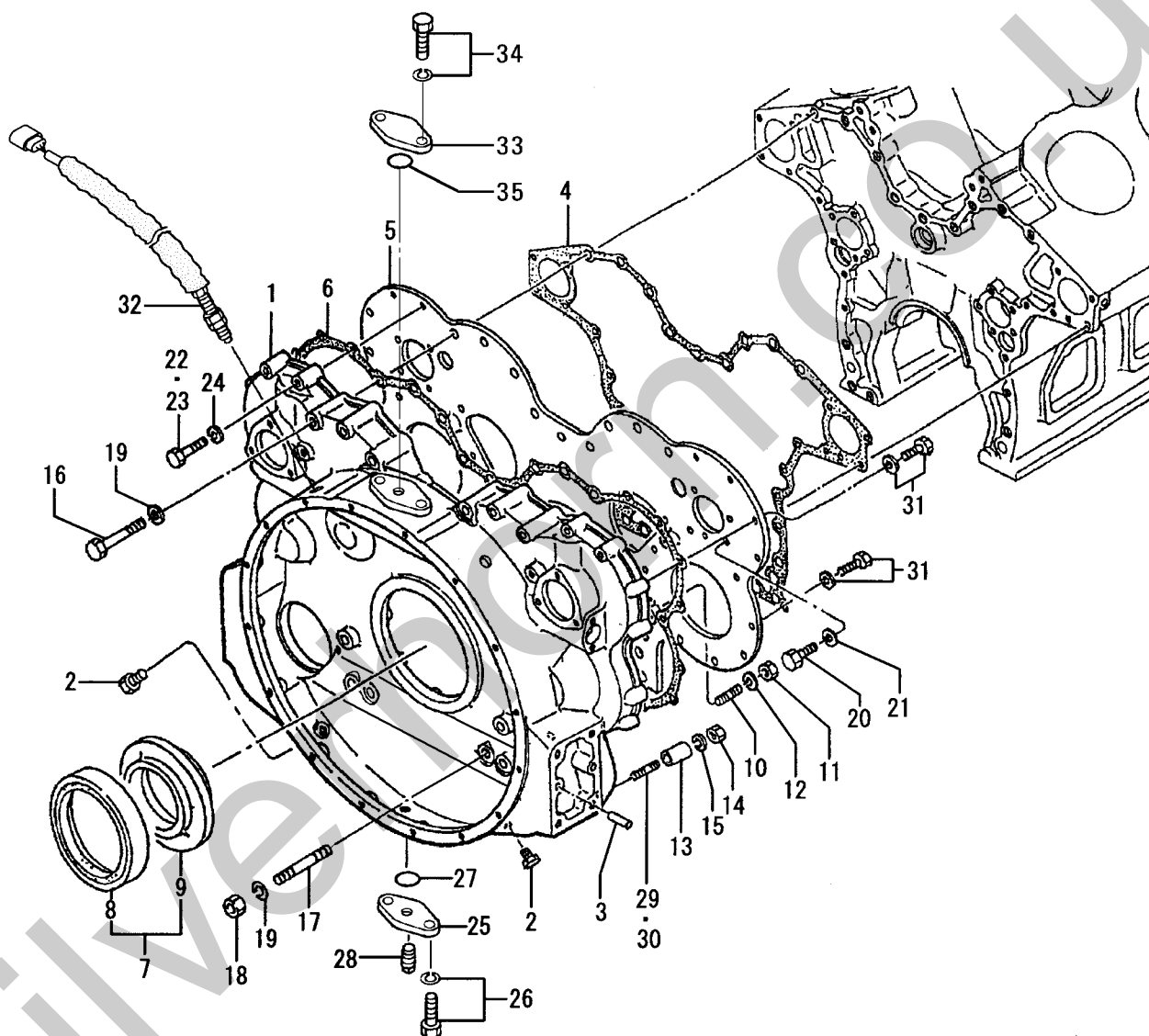
07-03 CRANKCASE(PART-2)

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REF. -NO.	PART NO.	R / P	SC EN Q	PART NAME & DESCRIPTION	MODEL & QTY			APPLICABLE SERIAL NO.		V R / D R
					Y1TAA1			FROM@-	-@UPTO	
1	H3230707100			COVER,SIDE	6					
2	H3260707100			COVER,SIDE	1					
3	H3260703900			COVER,SIDE	1					
4	H3260757300			COVER,SIDE	1					
5	H3260757400			COVER,SIDE	1					
6	H0482771300			PLUG,TAPERED	1					
7	H3260707900			STUD	2					
8	H3230737500			PACKING	8					
9	H3260737500			C PACKING	1				-22655	
	H3260747500	31		PACKING	1					
10	H3260787600			PACKING	2					
11	HF200510030			BOLT,WWASHER	38					
12	HF200510025			BOLT,WWASHER	2					
13	H3260766100			COVER,FRONT	1					
14	H0482771700			PLUG,TAPERED	1					
15	H3774826400			SPACER	2					
16	H3260725200			PACKING	1					
17	HF200512035			BOLT,WWASHER	7					
18	HF200512030			BOLT,WWASHER	2					
19	HF115512050			BOLT	1					
20	HF115512035			BOLT	1					
21	HF251512000			WASHER,SPRING	4					
22	H0486518020			C SEAL ASSY,OIL	1				-22934	
	H3260716050	N1		SEAL ASSY,OIL	1			22935-		
23	HF115512100			BOLT	2					
24	H3260720900			POINTER	1					
25	HF461016000			BOLT,EYE	1					
26	H0594601601			WASHER,SEALING	2					

11 TIMING GEAR CASE

14



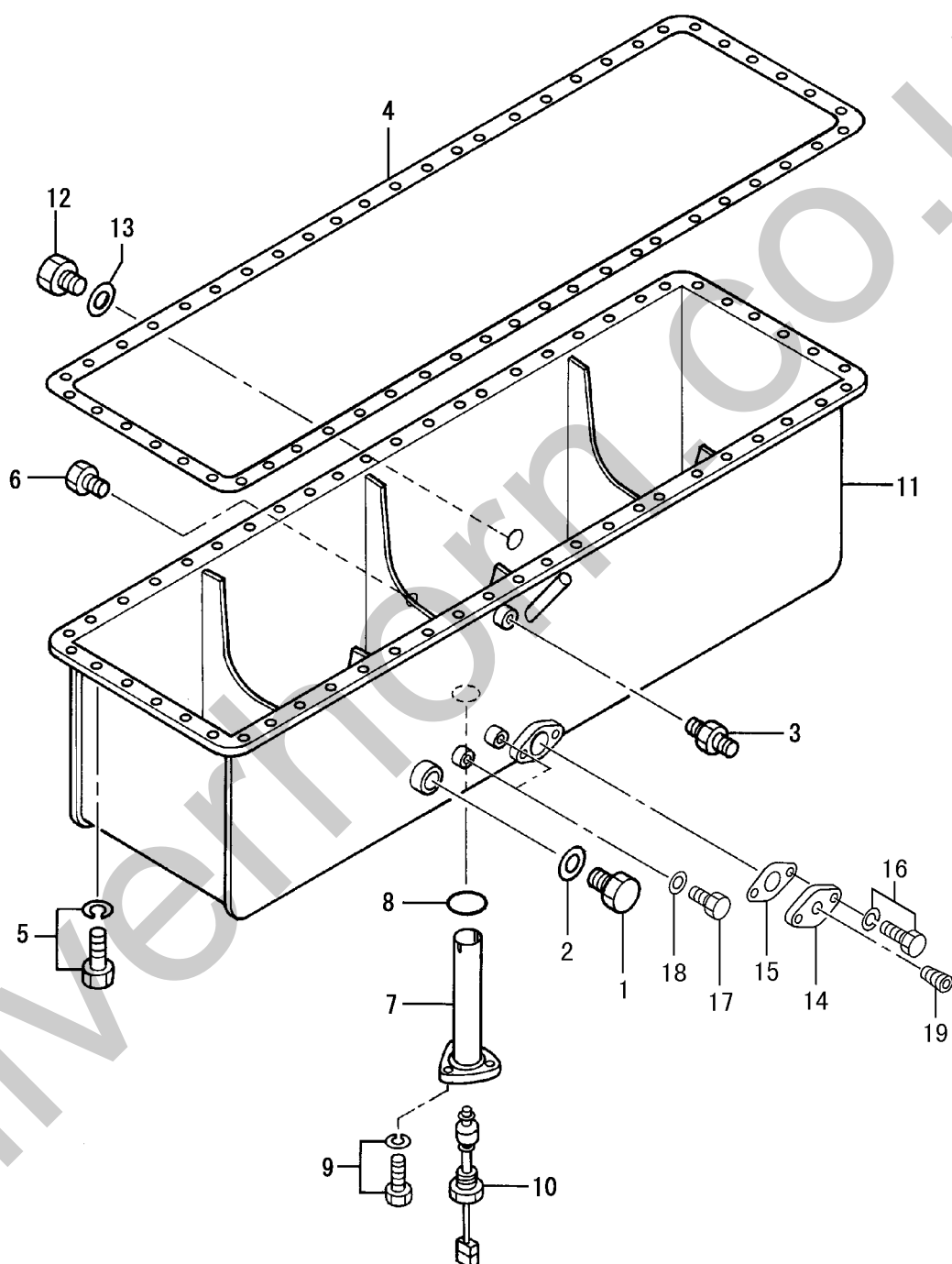
11 TIMING GEAR CASE

15

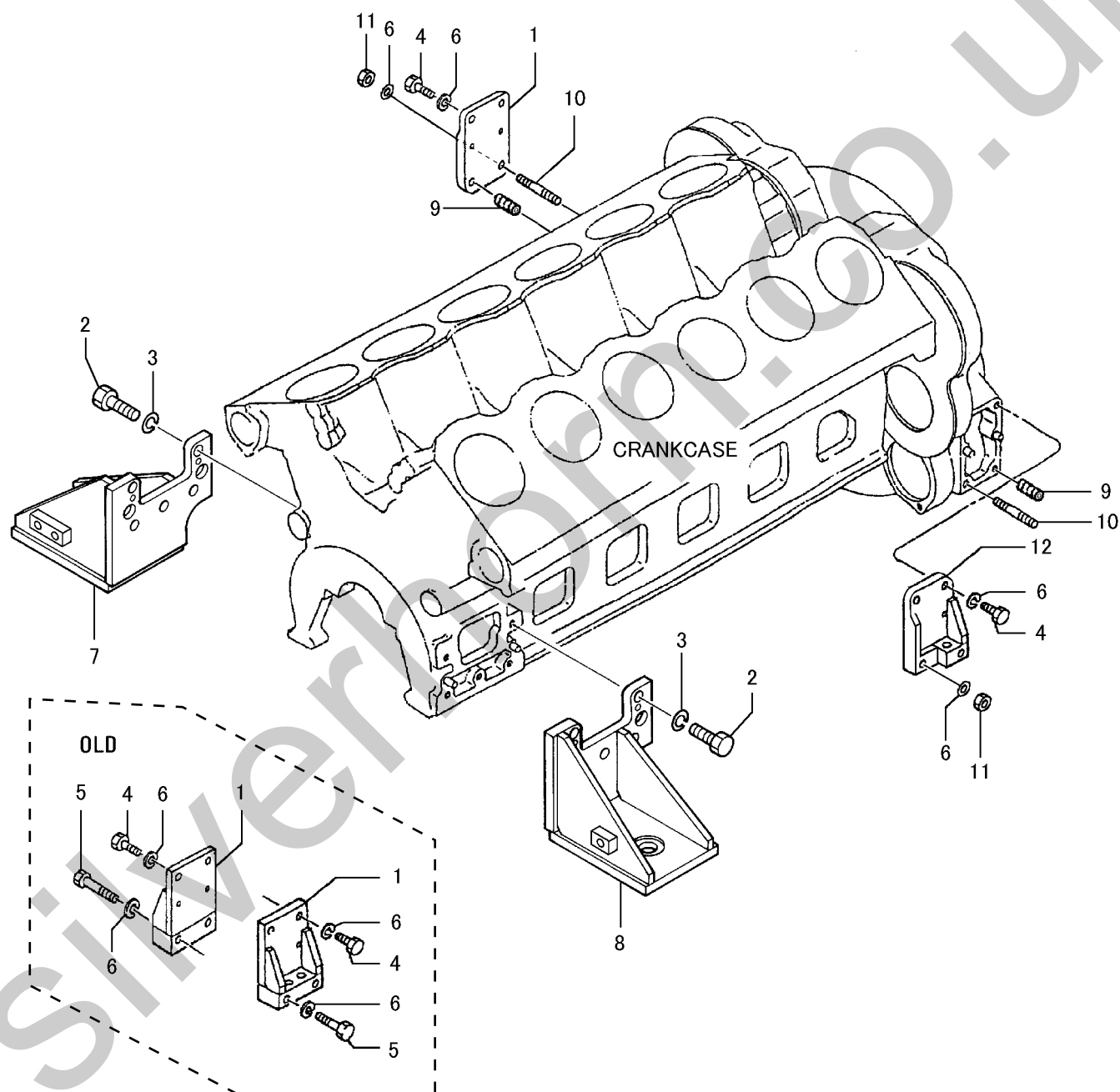
REF. -NO.	PART NO.	R / P	SC ENG	PART NAME & DESCRIPTION	MODEL & QTY			APPLICABLE SERIAL NO.		V / R	M / R
					Y1TAA1			FROM@-	-@UPTO		
1	H3261190100	G1	C	CASE,TIMING GEAR	1				-23033		
	H3261120500		C	CASE,TIMING GEAR	1			23034-			V
2	H3741102300				PLUG	3					A
3	HF284614000				PIN,DOWEL	4					A
4	H3261121200				PACKING,FR	1					
5	H3261121302				PLATE,REAR	1					
6	H3261121400				PACKING,RE	1					
7	H3251125010				SEAL ASSY,OIL,RE	1					A
8	H3251125100				SEAL,OIL	1					A
9	H3251105200			SLINGER	1						
10	HF145012030	N1	C	STUD	6				-23033		
	H3260705700		C	STUD	6			23034-			V
11	HF230512000				NUT,LOCK	6					A
12	HF251512000				WASHER,SPRING	6					A
13	H3262501800				SPACER	2					
14	HF230512000				NUT,LOCK	4					A
15	HF251512000				WASHER,SPRING	4					A
16	HF103516120				BOLT	13					A
17	H3261104100				STUD	2					
18	HF232516000			NUT,JAM	2					A	
19	HF251516000			WASHER,SPRING	15					A	
20	HF115512030			BOLT	22					A	
21	HF251512000			WASHER,SPRING	22					A	
22	HF103512060			BOLT	2					A	
23	HF103512085			BOLT	2					A	
24	HF251512000			WASHER,SPRING	4					A	
25	H3771102200			FLANGE	1						
26	HF180512040			BOLT,W/WASHER	2					A	
27	H0550710480			O-RING	1					A	
28	HF500617000			PLUG,TAPERED	1					A	
29	HF145012035			STUD	2						
30	HF145012065			STUD	2						
31	HF200512045			BOLT,W/WASHER	10					A	
32	H0441044200			PICK-UP	2						
33	H3771102300	A		COVER	1			23034-		V	
34	HF180512030	A		BOLT,W/WASHER	2			23034-		V	
35	H0550710480	A		O-RING	1			23034-		V	

13 OIL PAN

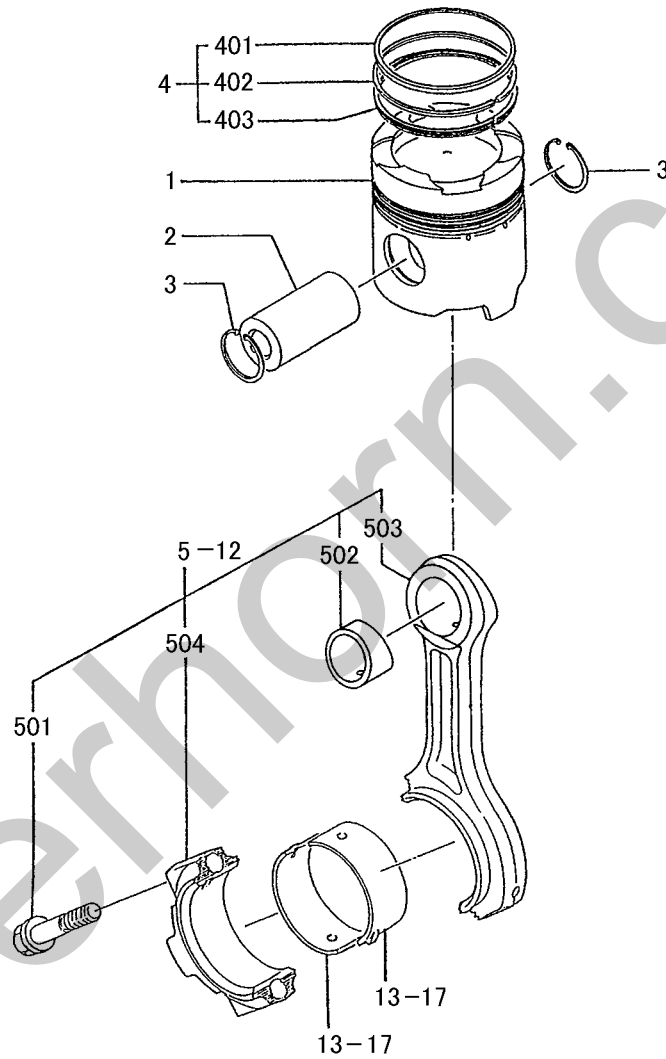
16



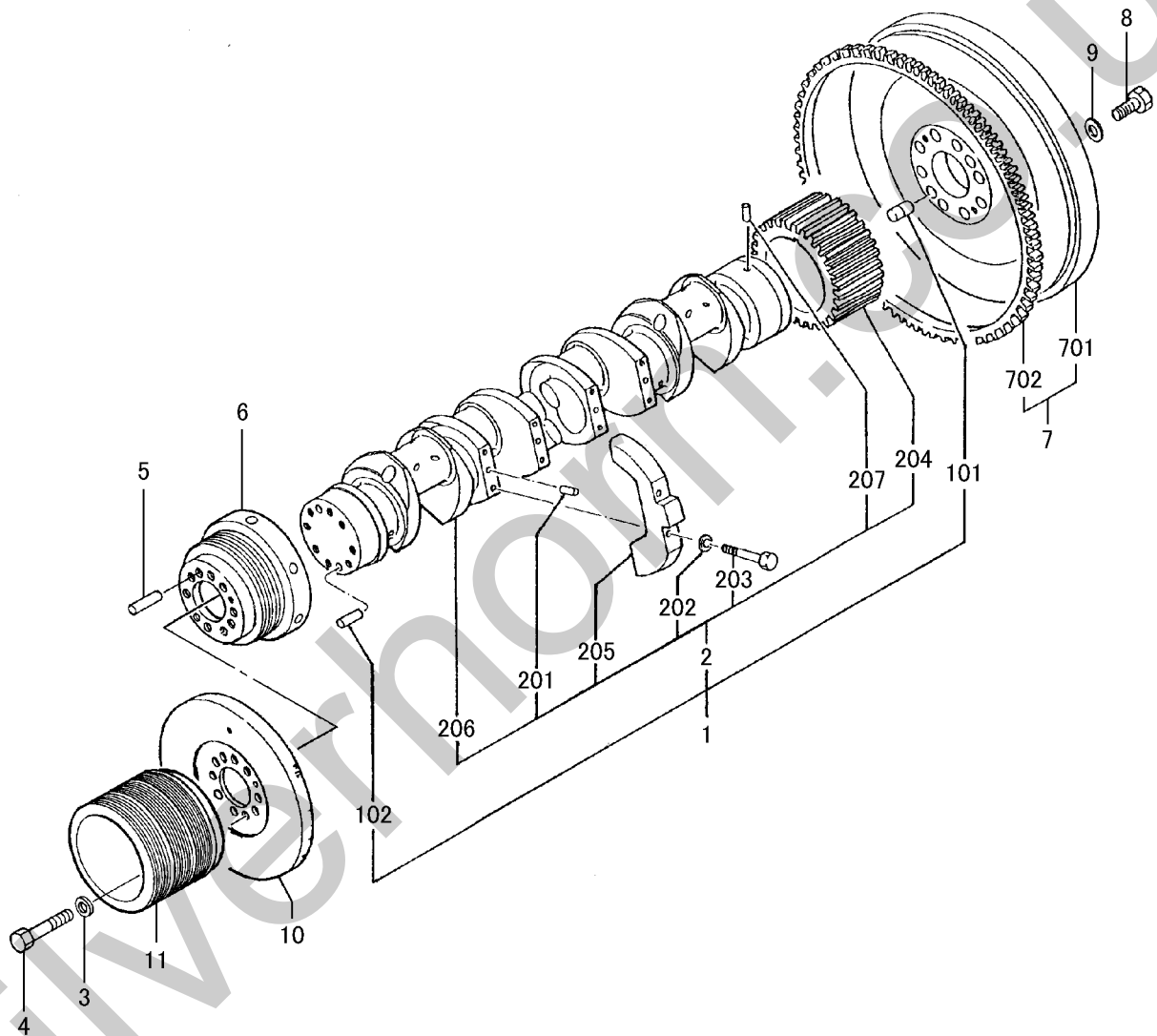
[illegible]



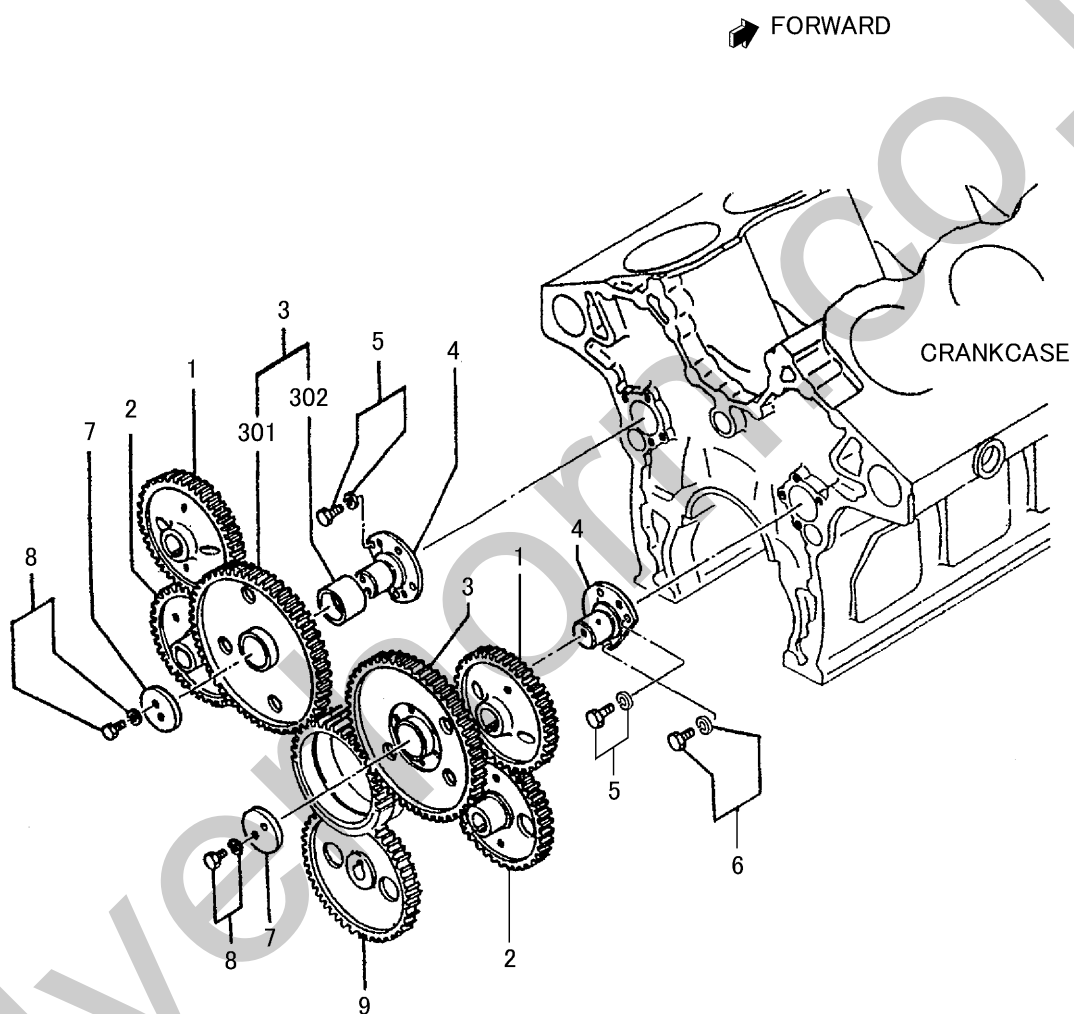
[illegible]



REF. -NO.	PART NO.	R / P	SC EN Q	PART NAME & DESCRIPTION	MODEL & QTY			APPLICABLE SERIAL NO.		V M R D
					Y1TAA1					
				FROM@-	-@UPTO					
1	H3251706600			PISTON	12					
2	H3251778100			PIN,PISTON	12					
3	HF320205800			RING,SNAP	24					
4	H35A1701010			RING SET,PISTON	12					
4.01	*			RING,COMPRESSION NO.1	12					
4.02	*			RING,COMPRESSION NO.2	12					
4.03	*			RING,OIL	12					
5	H3261951110	C		CONNECTING-ROD ASSY	12				-23033	
	H3261961110	31		CONNECTING-ROD ASSY	12					
5.01	H3251900301			BOLT,CON-ROD	24					
5.02	H3251901700	C		BEARING,CON-ROD	12				-23033	
	H3251911700	31		BEARING,CON-ROD	12					
5.03	*			CONNECTING-ROD	12					
5.04	*			CAP,CON-ROD	12					
6	H3261951210	C		CONNECTING-ROD ASSY	12				-23033	
	H3261961210	31		CONNECTING-ROD ASSY	12					
7	H3261951310	C		CONNECTING-ROD ASSY	12				-23033	
	H3261961310	31		CONNECTING-ROD ASSY	12					
8	H3261951410	C		CONNECTING-ROD ASSY	12				-23033	
	H3261961410	31		CONNECTING-ROD ASSY	12					
9	H3261951510	C		CONNECTING-ROD ASSY	12				-23033	
	H3261961510	31		CONNECTING-ROD ASSY	12					
10	H3261951610	C		CONNECTING-ROD ASSY	12				-23033	
	H3261961610	31		CONNECTING-ROD ASSY	12					
11	H3261951710	C		CONNECTING-ROD ASSY	12				-23033	
	H3261961710	31		CONNECTING-ROD ASSY	12					
12	H3261951810	C		CONNECTING-ROD ASSY	12				-23033	
	H3261961810	31		CONNECTING-ROD ASSY	12					
13	H3251942100			BEARING,CON-ROD	24					
14	H3251942200			BEARING,CON-ROD	24					
15	H3251942300			BEARING,CON-ROD	24					
16	H3251942400			BEARING,CON-ROD	24					
17	H3251942500			BEARING,CON-ROD	24					

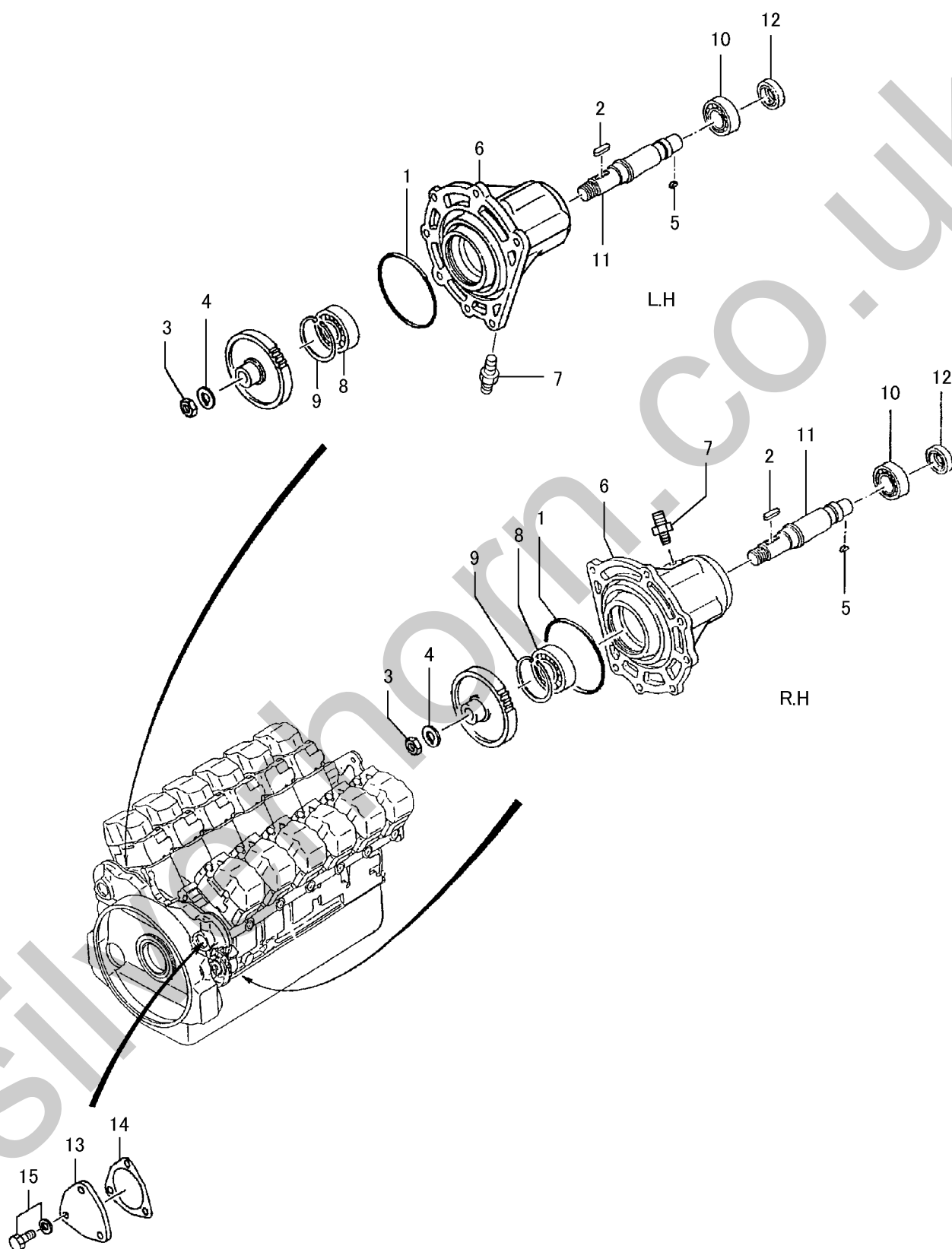


REF. -NO.	PART NO.	R / P	SC EN G	PART NAME & DESCRIPTION	MODEL & QTY			APPLICABLE SERIAL NO.		V R D	M / R
					Y1TAA1			FROM@-	-@UPTO		
1	H3262040010			CRANKSHAFT ASSY	1						
1:01	H3252000300			PIN,DOWEL	2						A
1:02	H3252000400			PIN	2						A
2	*			CRANKSHAFT SUB ASSY	1						
2:01	HF284616000			PIN,DOWEL	12						A
2:02	H3120171800			WASHER	24						A
2:03	H3232000401			BOLT	24						A
2:04	H3252320100			GEAR,CRANKSHAFT	1						
2:05	*			WEIGHT,BALANCE	12						
2:06	*			CRANKSHAFT	1						
2:07	H3342302600			PIN,DOWEL	1						A
3	H3252111600			WASHER	8						A
4	HF103522160			BOLT	8						A
5	H3262000900			PIN,DOWEL	2						
6	H3262000800			PULLEY,CRANKSHAFT	1						
7	H3262100050			FLYWHEEL ASSY	1						
7:01	*			FLYWHEEL	1						
7:02	H3252102200			GEAR,RING	1						
8	H3252110400			BOLT	8						A
9	H3252111600			WASHER	8						A
10	H3262221100			DAMPER,VISCOUS	1						
11	H3262504400			PULLEY,CRANKSHAFT	1						



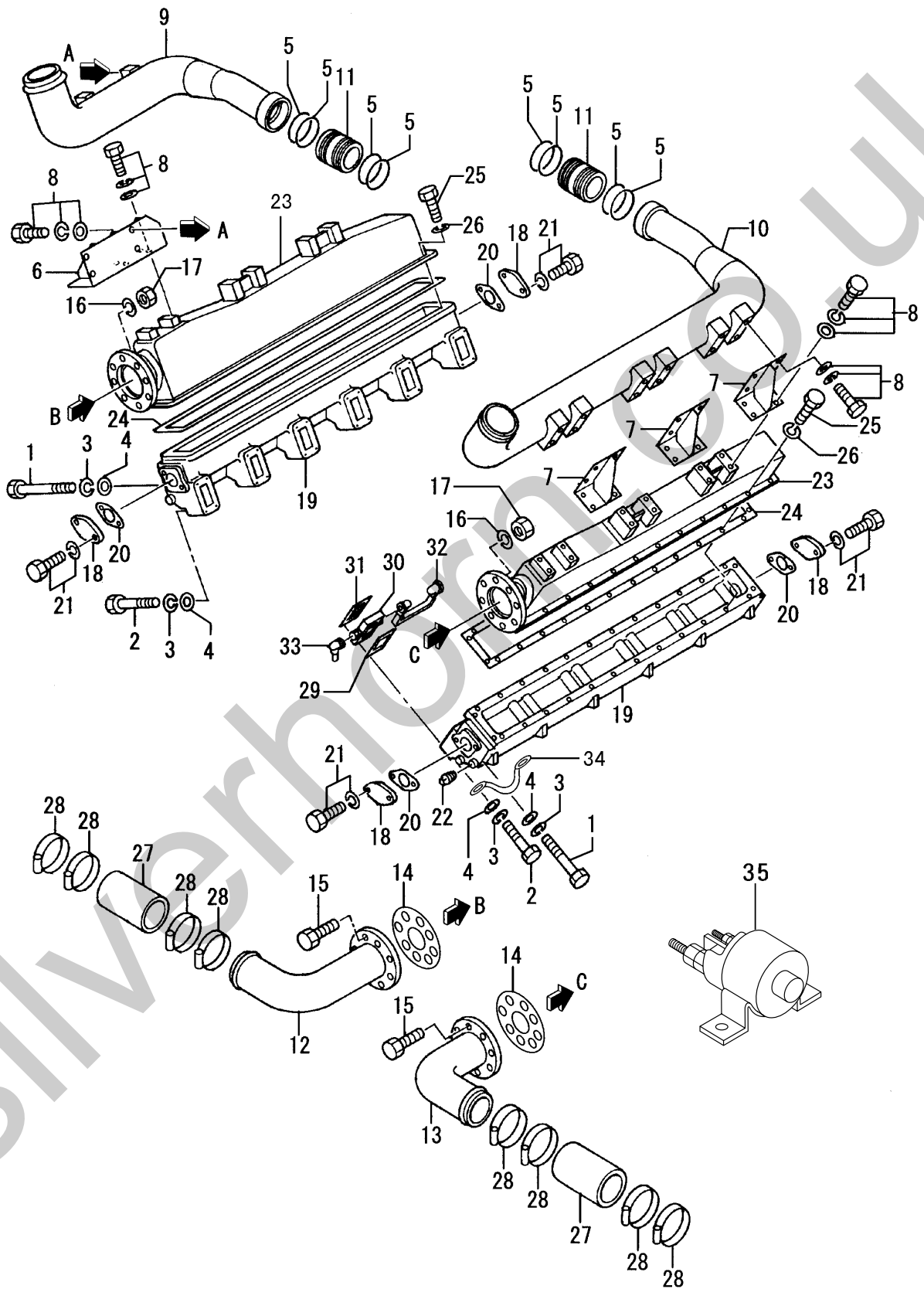
25 ACCESSORY DRIVE

26



30 INLET SYSTEM

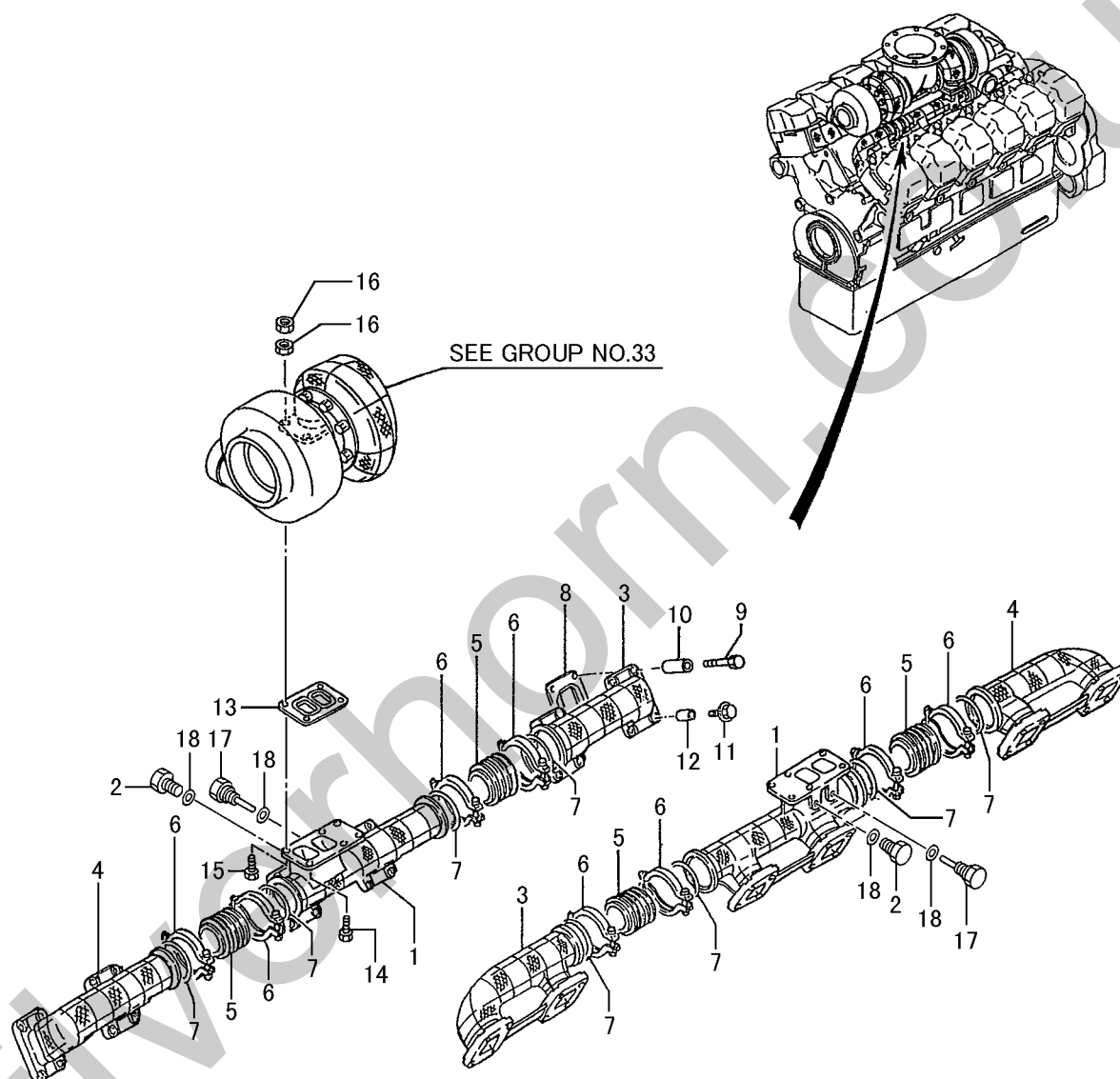
28



REF. -NO.	PART NO.	R / P	SC EN G	PART NAME & DESCRIPTION	MODEL & QTY			APPLICABLE SERIAL NO.		V R D	M / R
					Y1TAA1			FROM@-	-@UPTO		
1	H3623000901			BOLT						A	
2	H0597910110			BOLT	24					A	
3	HF251510000			WASHER,SPRING	48					A	
4	HF250010000			WASHER,PLAIN	48					A	
5	H35A3000100			O-RING	8					A	
6	H3263100300			C STAY,DUCT R.H	1			-22851			
	H3263120300	31		STAY,DUCT R.H	1						V
7	H3263100500			C STAY,DUCT L.H	3			-22851			
	H3263120500	31		STAY,DUCT L.H	3						V
8	HF182512030			BOLT,W/WASHER	32					A	
				B/W							
9	H3263100600			DUCT,AIR	1						
10	H3263100700			DUCT,AIR	1						
11	H34A3003500			CONNECTOR	2						
12	H3263111100			DUCT,AIR	1						
13	H3263111200			DUCT,AIR	1						
14	H0482628100			PACKING	2					A	
15	HF103516055			BOLT	16					A	
16	HF251516000			WASHER,SPRING	16					A	
17	HF230016000			NUT	16					A	
18	H3263004900			FLANGE	4						
19	H3263000300			MANIFOLD,INLET	2						
20	H3263004800			GASKET	4					A	
21	HF200510025			BOLT,W/WASHER	8					A	
22	HF500610000			PLUG,TAPERED	3					A	
23	H3263005100			COVER,MANIFOLD	2						
24	H3253012700			GASKET,AIR COOLER	2						
25	HF115510030			BOLT	56					A	
26	HF251510000			WASHER,SPRING	56					A	
27	H3753105401			HOSE,RUBBER	8					A	
28	H0483001210			CLAMP	32					A	
29	H3253010300			PACKING	12					A	
30	H3253009200			HEATER,AIR 1KW	12						
31	H3256119200			GASKET	12					A	
32	H3276109400			SHORT PLATE ASSY	8						
33	H3256109500			GROMMET	8					A	
34	H4568044601			STRAP,EARTH	4					A	
35	H0438217400	A		RELAY	2			22852-			V

32-01 EXHAUST SYSTEM(PART-1)

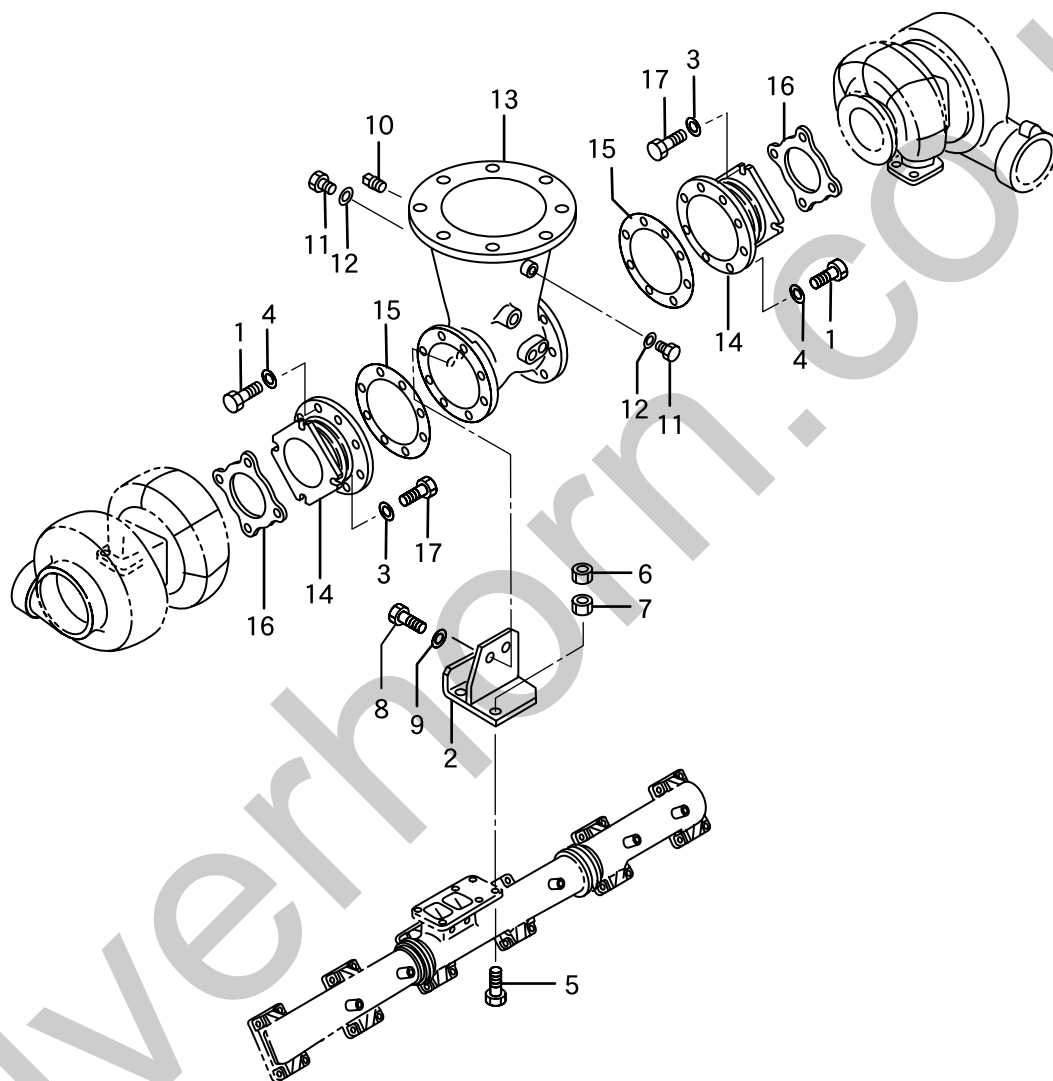
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32-01 EXHAUST SYSTEM(PART-1)

31

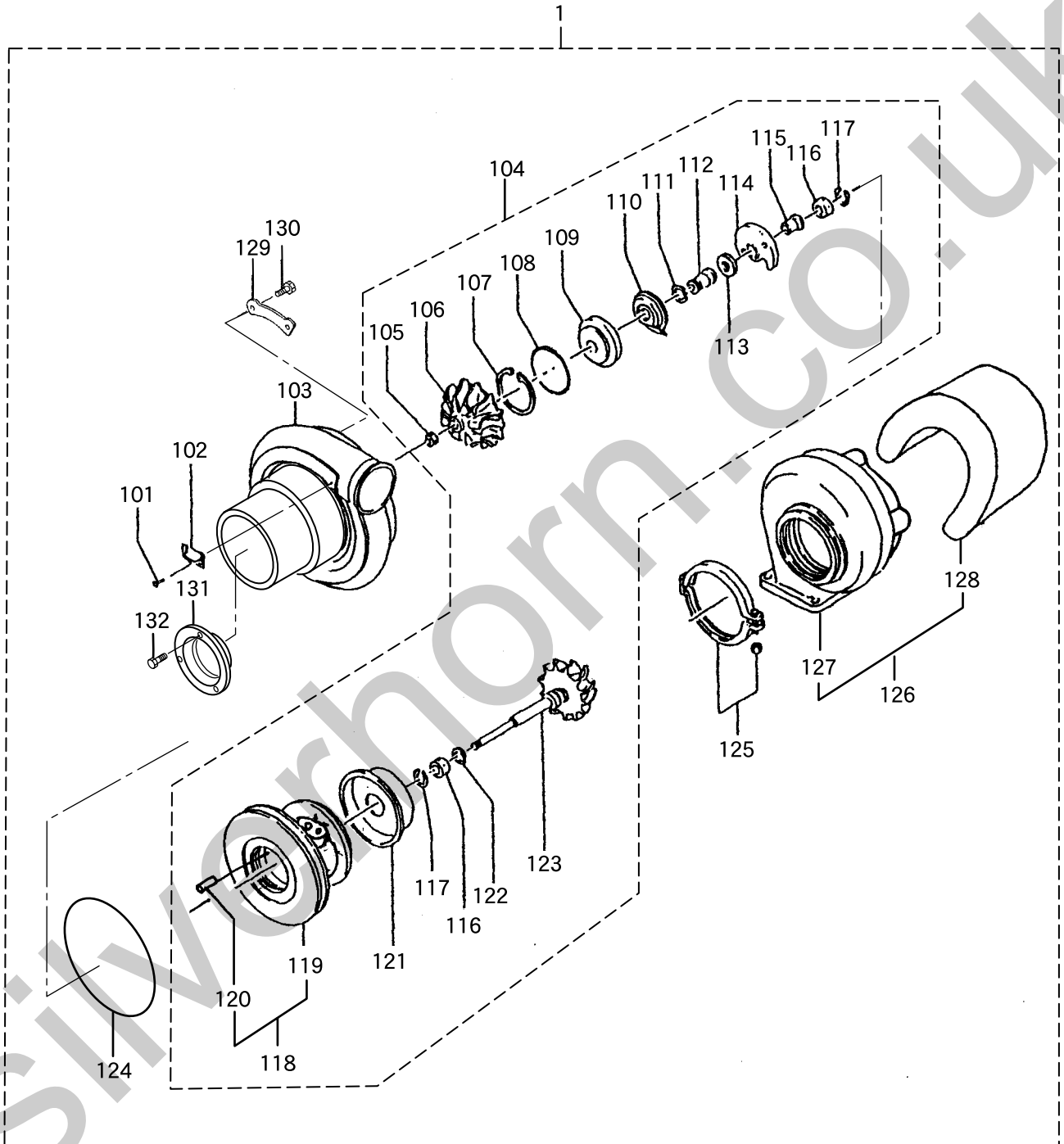
[illegible]



32-02 EXHAUST SYSTEM(PART-2)

33

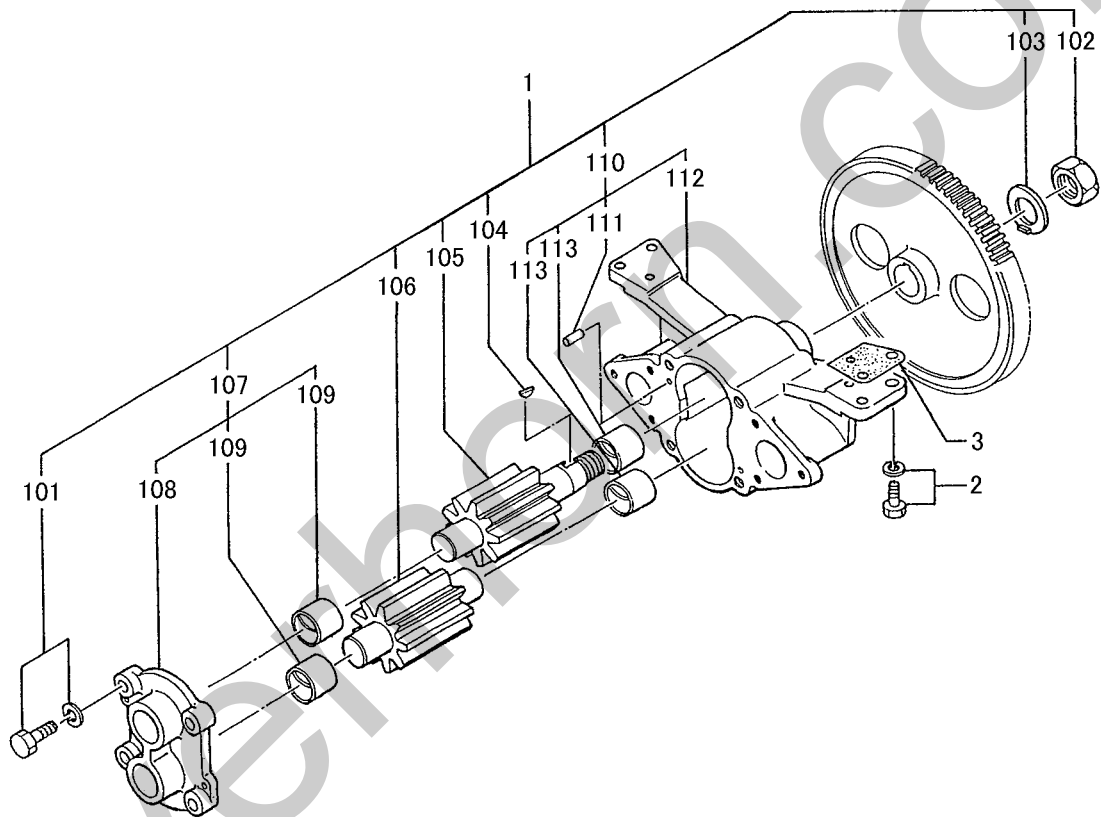
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REF. -NO.	PART NO.	R / P	SC EN Q	PART NAME & DESCRIPTION	MODEL & QTY			APPLICABLE SERIAL NO.		V R D	M / R
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1	H4913203020			TURBOCHARGER ASSY	2						
1:01	H0066502048			RIVET	4						
1:02	*			NAME-PLATE	2						
1:03	H4913253100			COVER,COMPRESSOR	2						
1:04	H4913209000			CARTRIDGE ASSY	2						A
1:05	H4913242210			NUT,LOCK	2						
1:06	H4913240800			WHEEL,COMPRESSOR	2						
1:07	H4917423200			RING,SNAP	2						A
1:08	H4917422600			O-RING	2						A
1:09	H4913222500			INSERT	2						
1:10	H4913222200			DEFLECTOR,OIL	2						
1:11	H4917823100			RING,PISTON	2						A
1:12	H4913242100			SLEEVE,FLINGER	2						
1:13	H4913242400			RING,THRUST	2						
1:14	H4913221600			BEARING,THRUST	2						A
1:15	H4913242300			RING,THRUST	2						A
1:16	H4913221100			BEARING	4						A
1:17	H4916223100			RING,SNAP	4						A
1:18	H4913225400			HOUSING ASSY,BEARING	2						
1:19	*			HOUSING,BEARING	2						
1:20	H4918322800			PIN,SPRING	2						A
1:21	H4913219200			PLATE,BACK TURBINE	2						
1:22	H4916423700			RING,PISTON	2						A
1:23	H4913230130			ROTOR ASSY	2						
1:24	H4918122700			O-RING	2						A
1:25	H4913254000			V-COUPLING ASSY	2						
1:26	H4913213580			TURBINE-HOUSING ASSY	2						
1:27	*			TURBINE-HOUSING	2						
1:28	H4918114410			LAGGING	2						
1:29	H4918123500			PLATE,LOCK	8						
1:30	H4918123700			BOLT	16						A
1:31	H4913259000			PLATE	2						
1:32	HF121006012			BOLT	6						

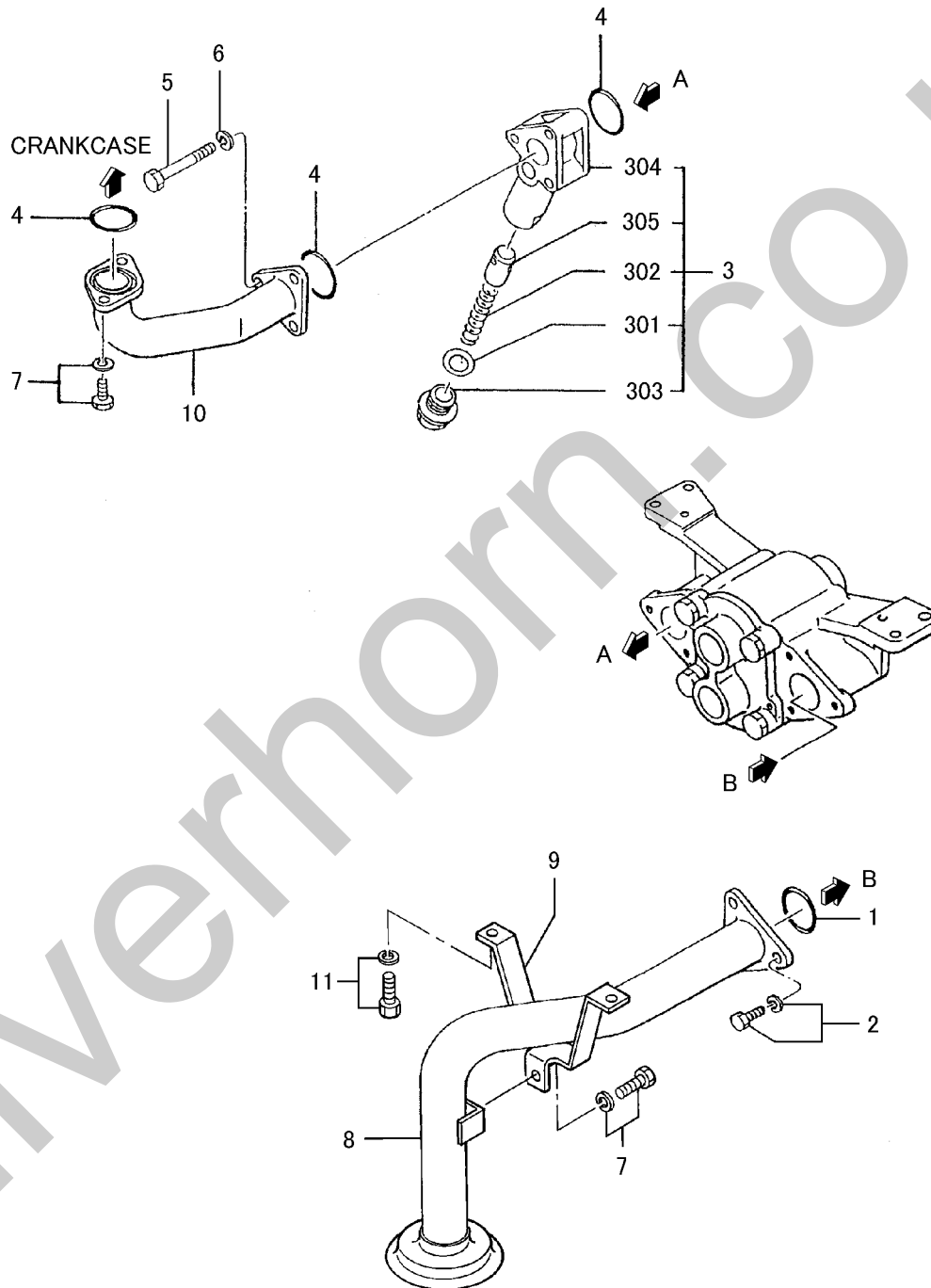
35 OIL PUMP

36



36-01 OIL STRAINER

38



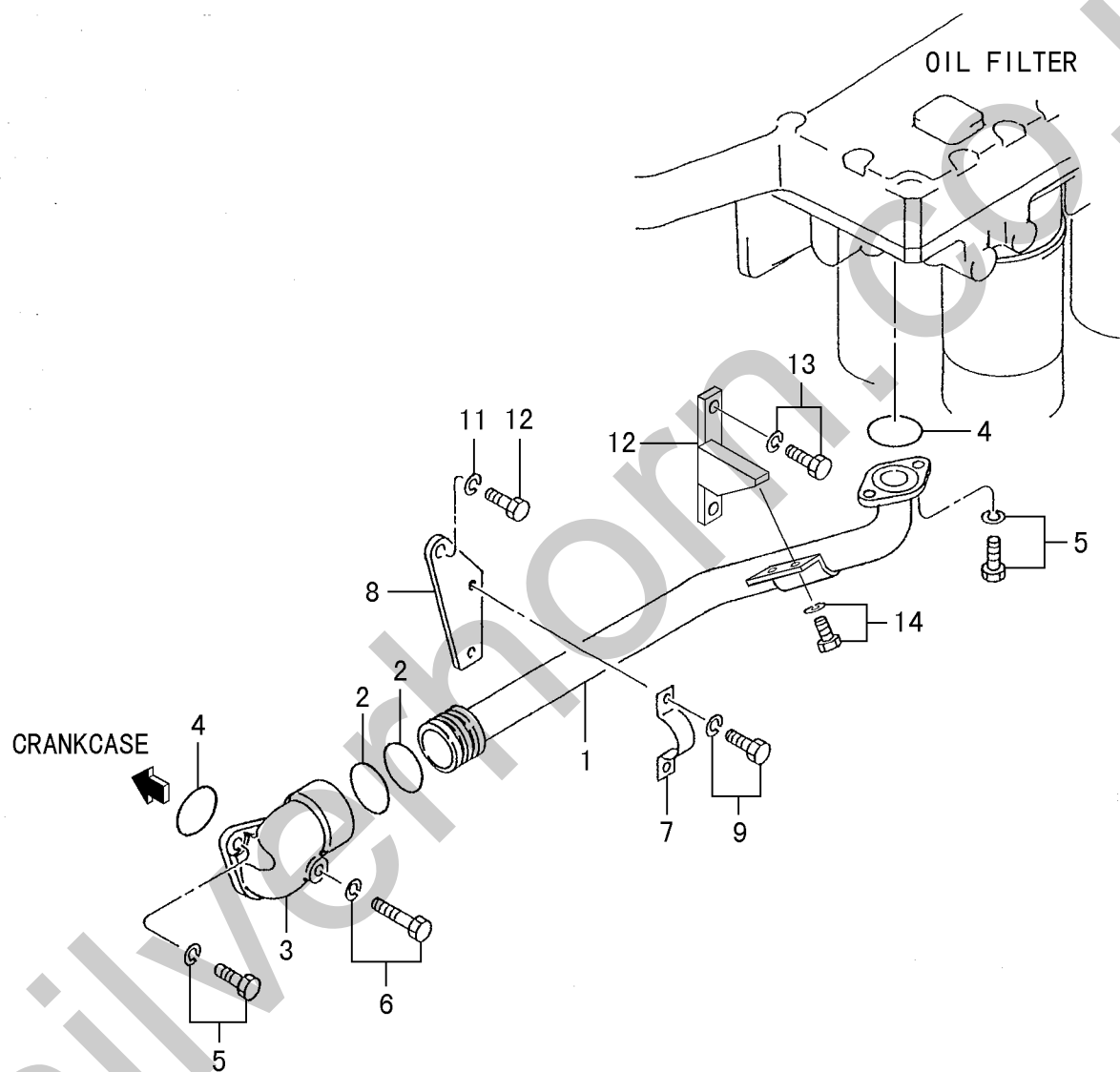
36-01 OIL STRAINER

39

[illegible]

36-02 OIL PIPE(PART-1)

40



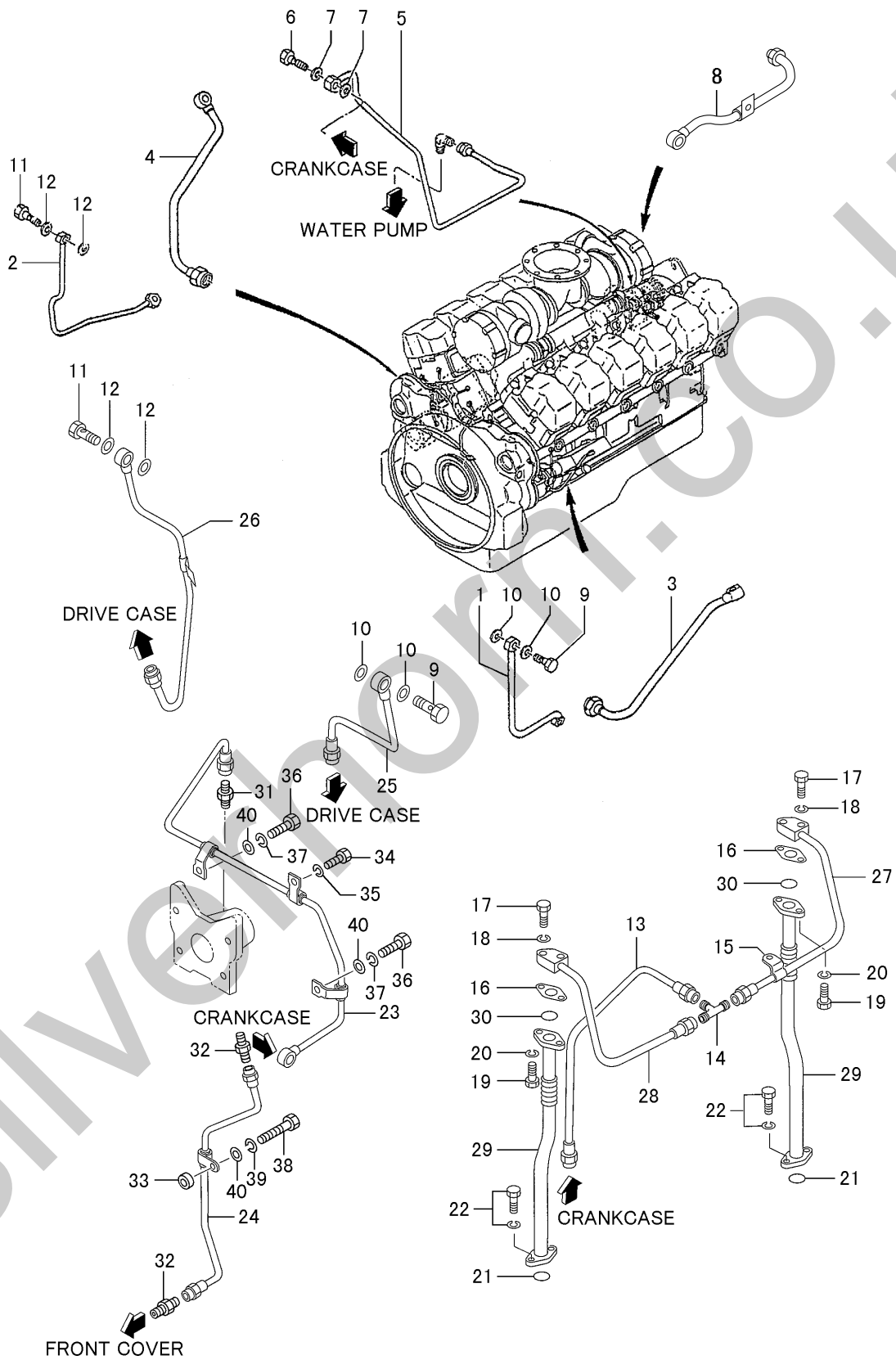
36-02 OIL PIPE(PART-1)

41

[illegible]

36-03 OIL PIPE(PART-2)

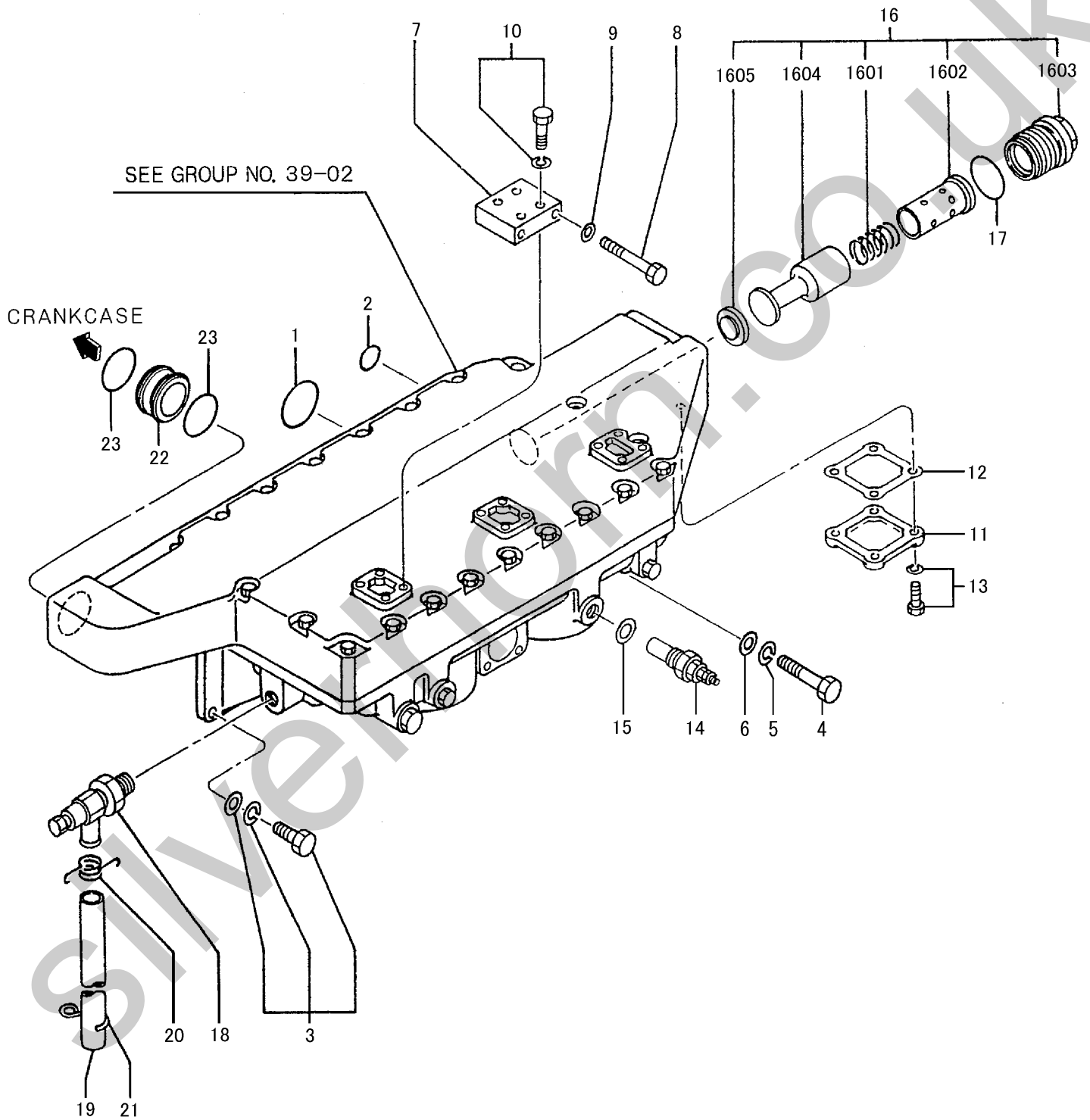
42



[illegible]

39-01 OIL COOLER

44



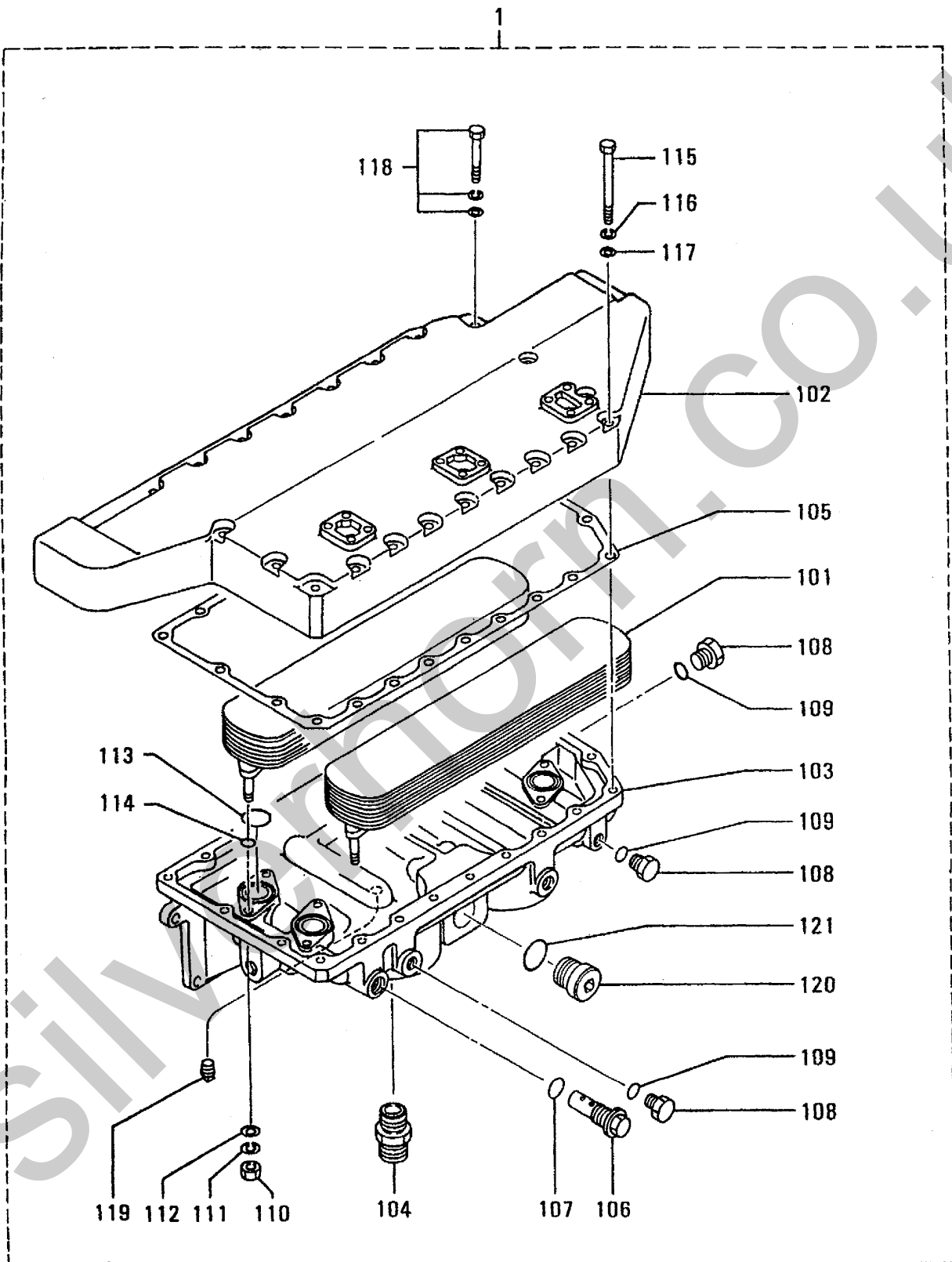
39-01 OIL COOLER

45

[illegible]

39-02 OIL COOLER ASSY

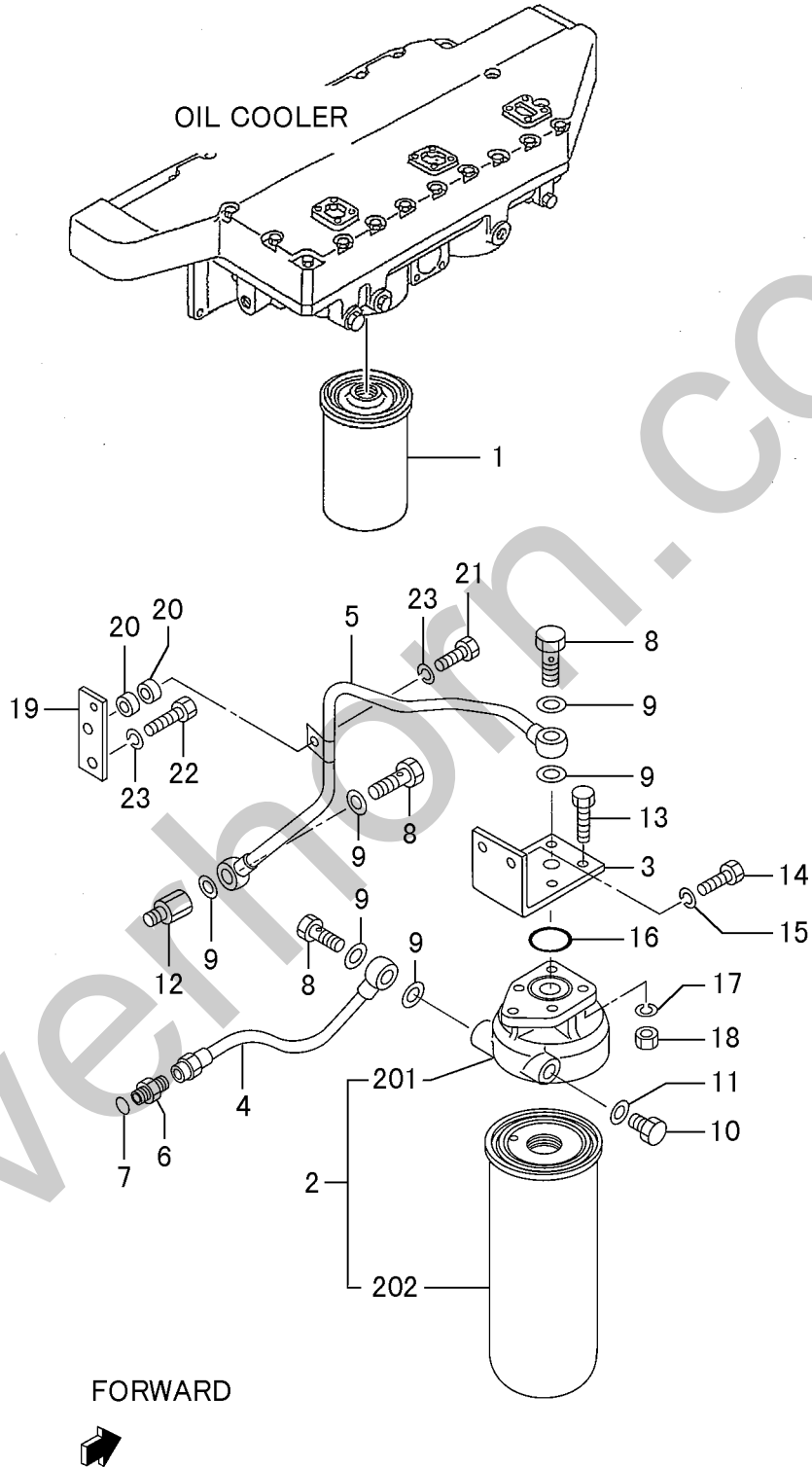
46

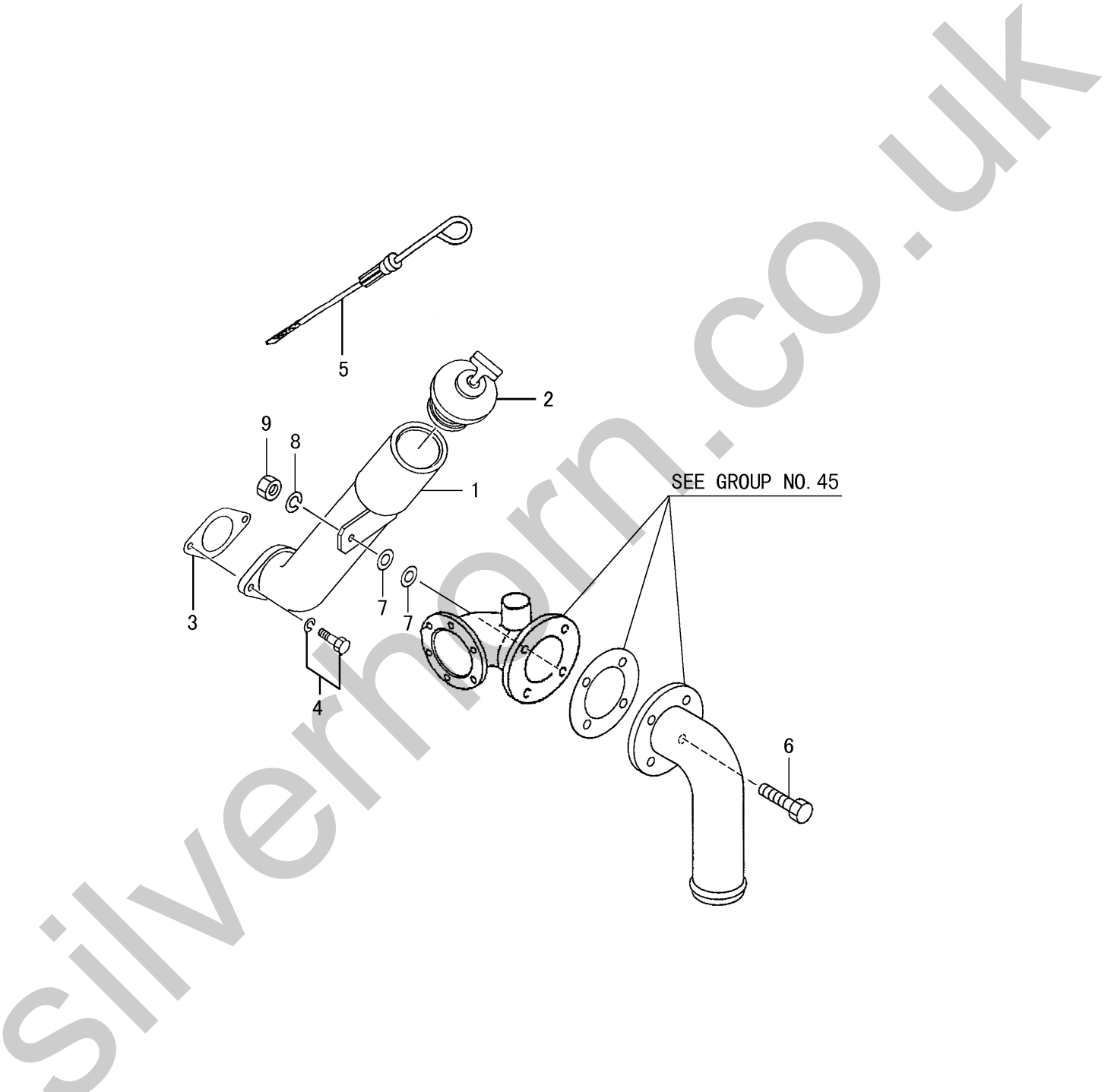


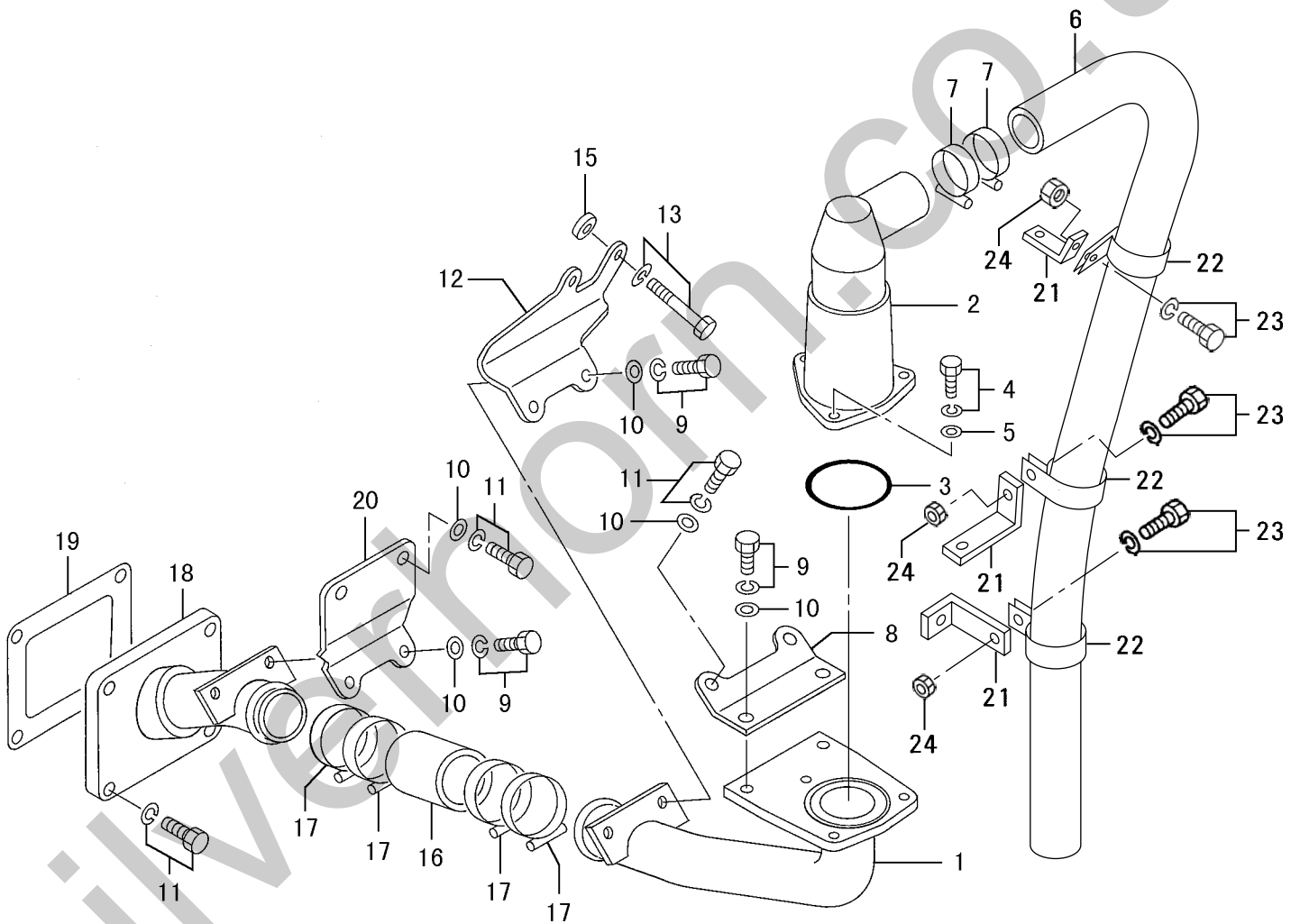
39-02 OIL COOLER ASSY

47

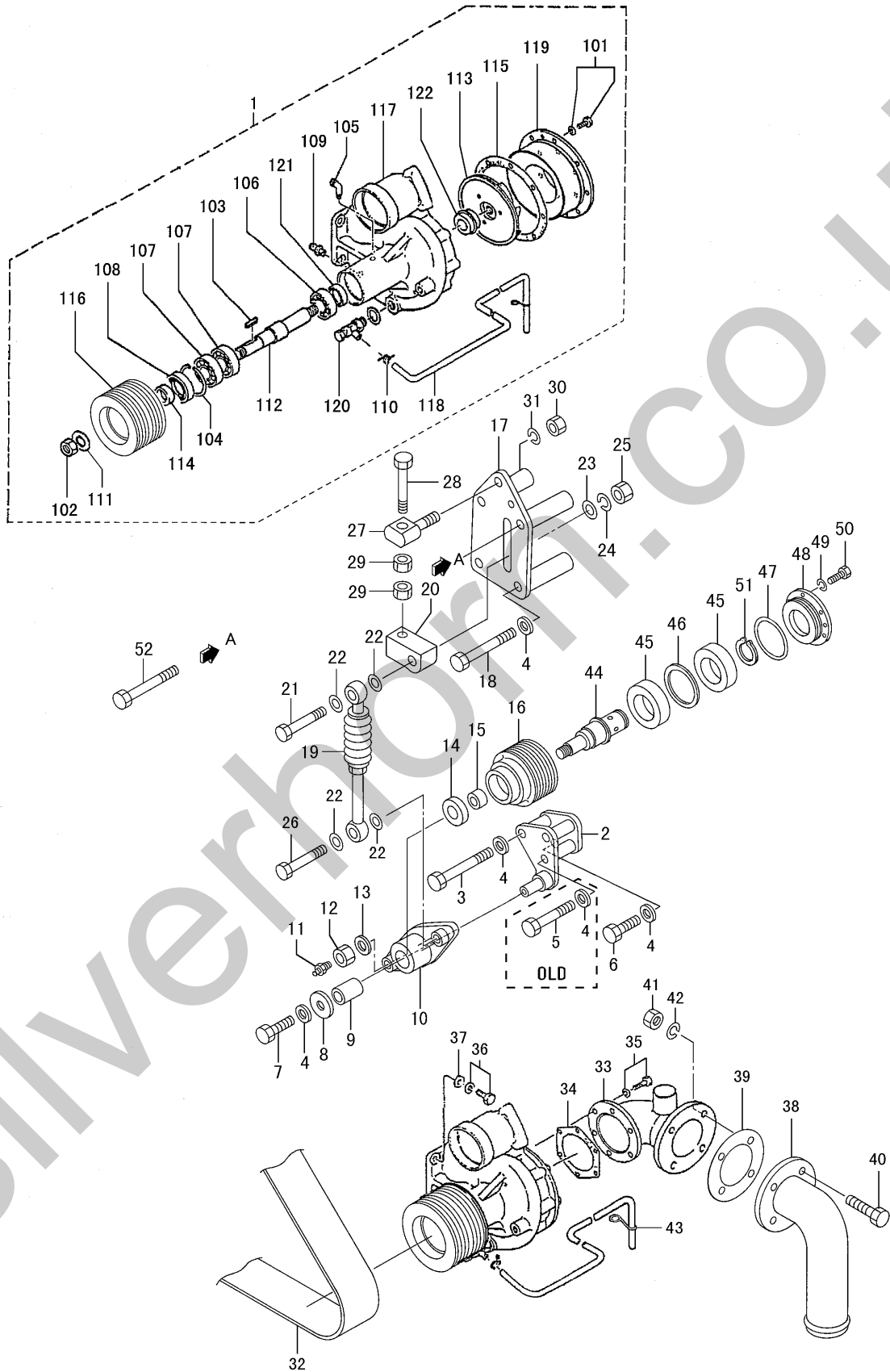
REF. -NO.	PART NO.	R / P	SC EN G	PART NAME & DESCRIPTION	MODEL & QTY			APPLICABLE SERIAL NO.		V R D	M / R
					Y1TAA1			FROM@-	-@UPTO		
1	H3263905060			COOLER ASSY,OIL	1						
1.01	H3263950100			ELEMENT	2						A
1.02	H3263961300			CASE	1						
1.03	H3263951400			COVER,COOLER	1						
1.04	*			CONNECTOR	4						
1.05	*			GASKET	1						A
	H3263960500	11	C	GASKET	1						V
1.06	H3253904020			VALVE ASSY,BY-PASS	1						
1.07	H3253900800			O-RING	1						A
1.08	HME064526			PLUG	3						A
1.09	HMH035093			O-RING	3						A
1.10	HF230010000			NUT,LOCK	8						A
1.11	HF251510000			WASHER,SPRING	8						A
1.12	HF250010000			WASHER,PLAIN	8						A
1.13	HMH035626			O-RING	4						A
1.14	HMH035092			O-RING	8						A
1.15	HF115510090			BOLT	13						A
1.16	HF251510000			WASHER,SPRING	13						A
1.17	HF250010000			WASHER,PLAIN	13						A
1.18	HF201510030			BOLT,W/WASHER	9	B/W					A
1.19	HF500610000			PLUG,TAPERED	1						
1.20	H3263952100			PLUG	1						A
1.21	H3263952200			O-RING	1						A







[illegible]

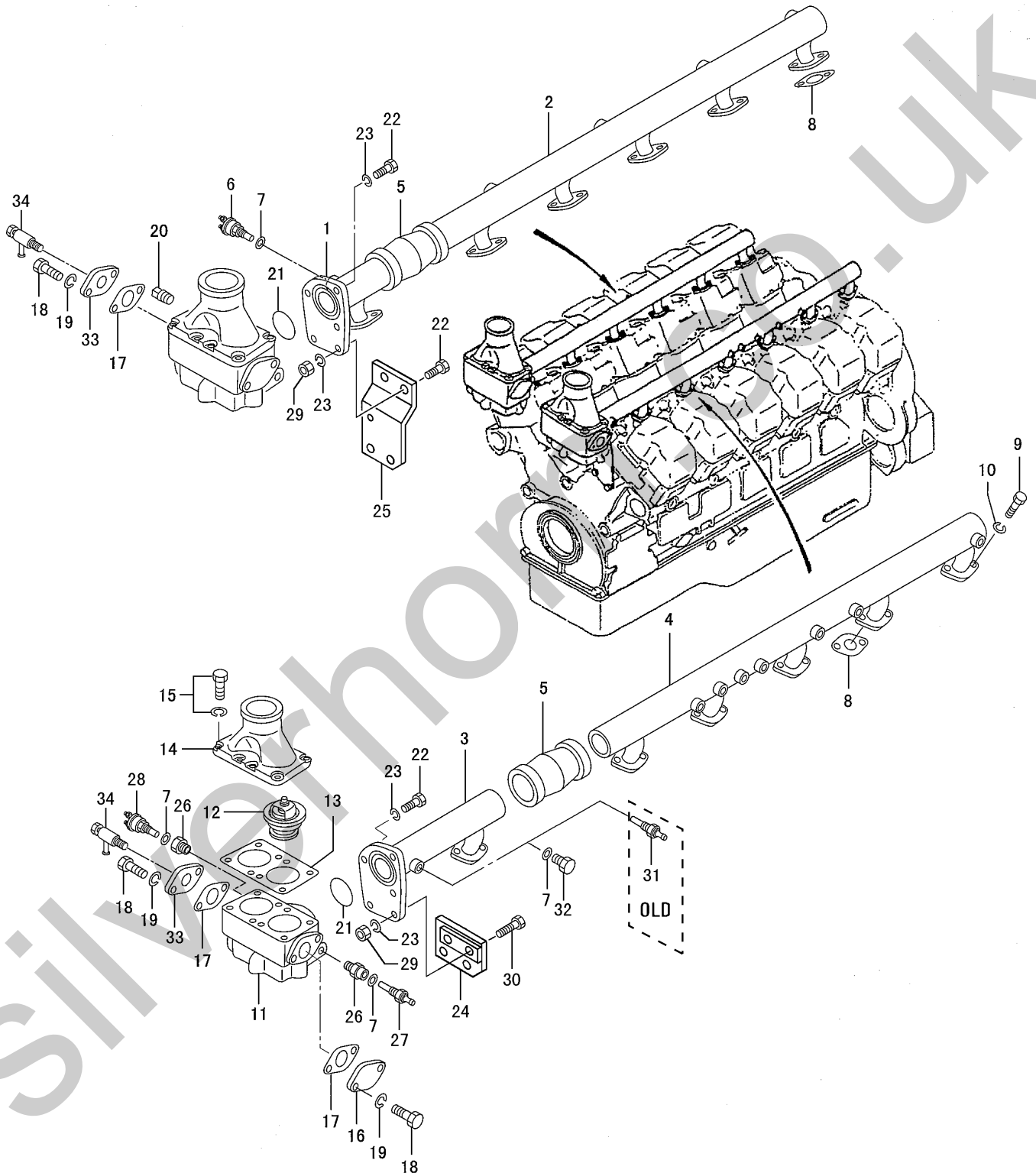


REF. -NO.	PART NO.	R / P	SC EN G	PART NAME & DESCRIPTION	MODEL & QTY			APPLICABLE SERIAL NO.		V M R D
					Y1TAA1			FROM@-	-@UPTO	
1	H3264501030		C	PUMP ASSY,WATER	1				-22675	
	H3264511030	31	C	PUMP ASSY,WATER	1					
	H3264511031	R2		PUMP ASSY,WATER	1					
1:01	HF200510025			BOLT,W/WASHER	8					
1:02	HF232024000			NUT,JAM	1					
1:03	HF287107040			KEY,SUNK	1					
1:04	HF320207200			RING,SNAP	1					
1:05	HF465606000			ELBOW	1					
1:06	HF800606206			BEARING,BALL	1					
1:07	HF801006306			BEARING,BALL	2					
1:08	HMT203648			SEAL,OIL	1					
1:09	H0043412011			CONNECTOR	1					
1:10	H3000705500			CLAMP	1					
1:11	H3204528500			WASHER	1					
1:12	H3264500200			SHAFT,WATER PUMP	1					
1:13	H3264500300			IMPELLER	1					
1:14	H3264500800			SPACER	1					
1:15	H3264501300		C	PACKING	1				-22675	
	H3264511300	31		PACKING	1					
1:16	H3264508100			PULLEY,WATER PUMP	1					
1:17	H3264520100			CASE,WATER PUMP	1					
1:18	H3301023400			HOSE,DRAIN	1					
1:19	H3334500500			COVER	1					
1:20	H3340706100			COCK,WATER DRAIN	1					
1:21	H35A4500400			SEAL,OIL	1					
1:22	H3714516200		C	SEAL,UNIT	1				-22675	
	H3264501800	31		SEAL,UNIT	1					
2	H3264528200			BRACKET,TENSION	1					
3	H0597812170			BOLT	2					
4	H34A4802200		Q	WASHER	9				-22707	
	H34A4802200	1		WASHER	8			22708-		
5	H0597812145		D	BOLT	1				-22707	
6	HF103512045			BOLT	1					
7	HF103512035			BOLT	1					
8	H3264827900			PLATE,END	1					
9	H3264828200			METAL,W/P TENSION	1					
10	H3264817800			IDLER,W/P TENSION	1					
11	HF500610000			PLUG,TAPERED	1					
12	HF230024000		C	NUT	1				-22707	
	HF232024000	N1		NUT,JAM	1			22708-		
13	H3250701400			WASHER	1					
14	H3264509200			SEAL,OIL PULLEY	1					
15	H3264508800			SLEEVE,OIL SEAL	1					
16	H3264518400			PULLEY,TENSION	1					
17	H3264518300			BRACKET,TENSION	1					
18	H0597812185		Q	BOLT	4				-22707	
	H0597812185	1		BOLT	3			22708-		
19	H3754808400		C	SHOCK,ABSOBER	1					
	H3754808401	R1		SHOCK,ABSOBER	1					
20	H3754527400			BOSS,TENSION	1					

REF. -NO.	PART NO.	R / P	SC EN G	PART NAME & DESCRIPTION	MODEL & QTY			APPLICABLE SERIAL NO.		V R D	M / R
					Y1TAA1			FROM@-	-@UPTO		
21	H3264808800			BOLT	1						A
22	H3331101600			WASHER	4						A
23	HF250012000		C	WASHER,PLAIN	1				-22707		A
	H3331101600	31		WASHER	1						AV
25	HF230012000			NUT	1						A
26	H3264808700			BOLT	1						A
27	H3754807500			BOSS,TENSION	1						
28	H3754817600			BOLT,TENSION	1						
29	HF232014000			NUT,JAM	2						A
30	HF230014000			NUT	1						A
31	HF251514000			WASHER,SPRING	1						A
32	H3264508900			V-BELT,WATER PUMP	1						
33	H3264560600			CONNECTOR	1						
34	H3264617800			PACKING	1						A
35	HF200510030			BOLT,W/WASHER	6						A
36	HF200510040			BOLT,W/WASHER	4						A
37	HF250010000			WASHER,PLAIN	4						A
38	H3264604200			PIPE,WATER	1						
39	H0482620080		C	PACKING	1				-22675		A
	H0482628080	31		PACKING	1						AV
40	HF103516060			BOLT	4						A
41	HF232016000			NUT,JAM	4						A
42	HF251516000			WASHER,SPRING	4						A
43	H3000715301			CLAMP	1						A
44	H3264508600			SHAFT,TENSION	1						
45	HF801206308		C	BEARING,BALL	2				-22707		A
	HF801006308	31		BEARING,BALL	2						AV
46	H3264508700			WASHER,PLAIN	1						A
47	H0550720850			O-RING	1						A
48	H3264509100			COVER,BEARING	1						
49	HF251506000			WASHER,SPRING	6						A
50	HF103506016			BOLT	6						A
51	HF320004000			RING,SNAP	1						A
52	H3264809200	A		BOLT	1			22708-			V

46-01 COOLING SYSTEM(PART-1)

58



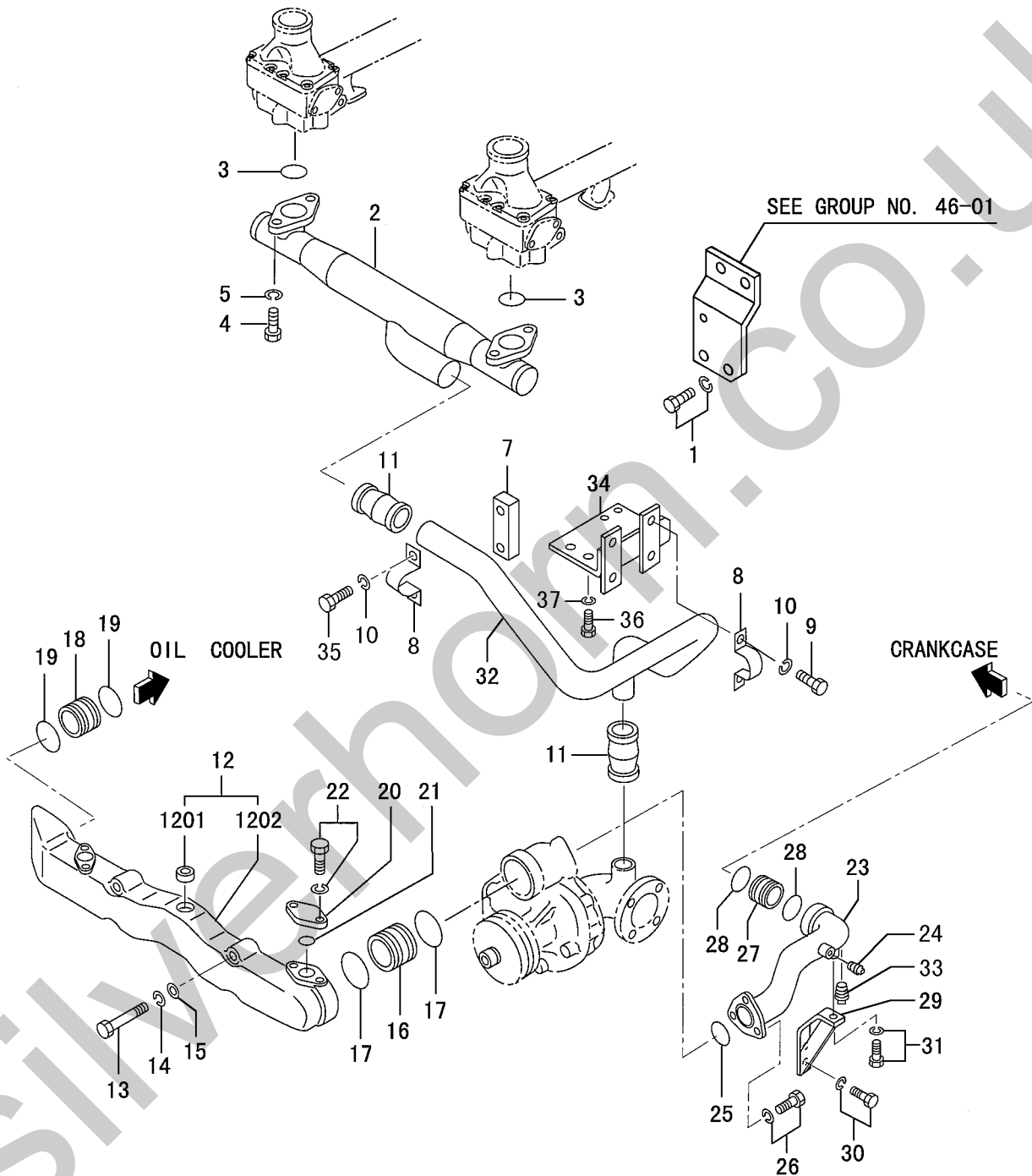
46-01 COOLING SYSTEM(PART-1)

59

REF. -NO.	PART NO.	R / P	SC ENG	PART NAME & DESCRIPTION	MODEL & QTY			APPLICABLE SERIAL NO.		V / R D / R
					Y1TAA1			FROM@-	-@UPTO	
1	H3264605300			PIPE,W/OUTLET FR R.H	1					
2	H3264615700			PIPE,W/OUTLET RE R.H	1					
3	H3264605800			PIPE,W/OUTLET FR L.H	1					
4	H3264615900			PIPE,W/OUTLET RE L.H	1					
5	H0482640050			COUPLING	2					
6	H3754704100			SWITCH,THERMO	1					A
7	H0594601601			WASHER,SEALING	4					A
8	H3254630600			PACKING	12					A
9	HF103510030			BOLT	24					A
10	HF251510000			WASHER,SPRING	24					A
11	H3254655200			CASE,THERMOSTAT	2					
12	H35C4605500			THERMOSTAT	4					
13	H3254625400			GASKET	2					A
14	H3234623200			COVER,THERMOSTAT	2					
15	HF180508025			BOLT,W/WASHER	16					A
16	H3234602601			COVER	2					
17	H3254620300			PACKING	4					A
18	HF103510025			BOLT	8					A
19	HF251510000			WASHER,SPRING	8					A
20	HF500621000			PLUG,TAPERED	1					A
21	HF315307500			O-RING	2					A
22	HF103510030			BOLT	8					A
23	HF251510000			WASHER,SPRING	8					A
24	H3264611900			STAY,THERMO L.H	1					
25	H3264611800			STAY,THERMO R.H	1					
26	H4560042901			CONNECTOR	2					
27	H3789200300			UNIT,WASHER	1					
28	H0444234500			SWITCH,THERMO	1					
29	HF230010000			NUT	4					A
30	HF103510060			BOLT	2					A
31	H3789200300		D	UNIT,WATER	1					
32	HF500016000		A	PLUG,DRAIN	1			22937-	-22936	AV
33	H3264604400			COVER	2					
34	H3254512901			COCK,DRAIN	2					

46-02 COOLING SYSTEM(PART-2)

60



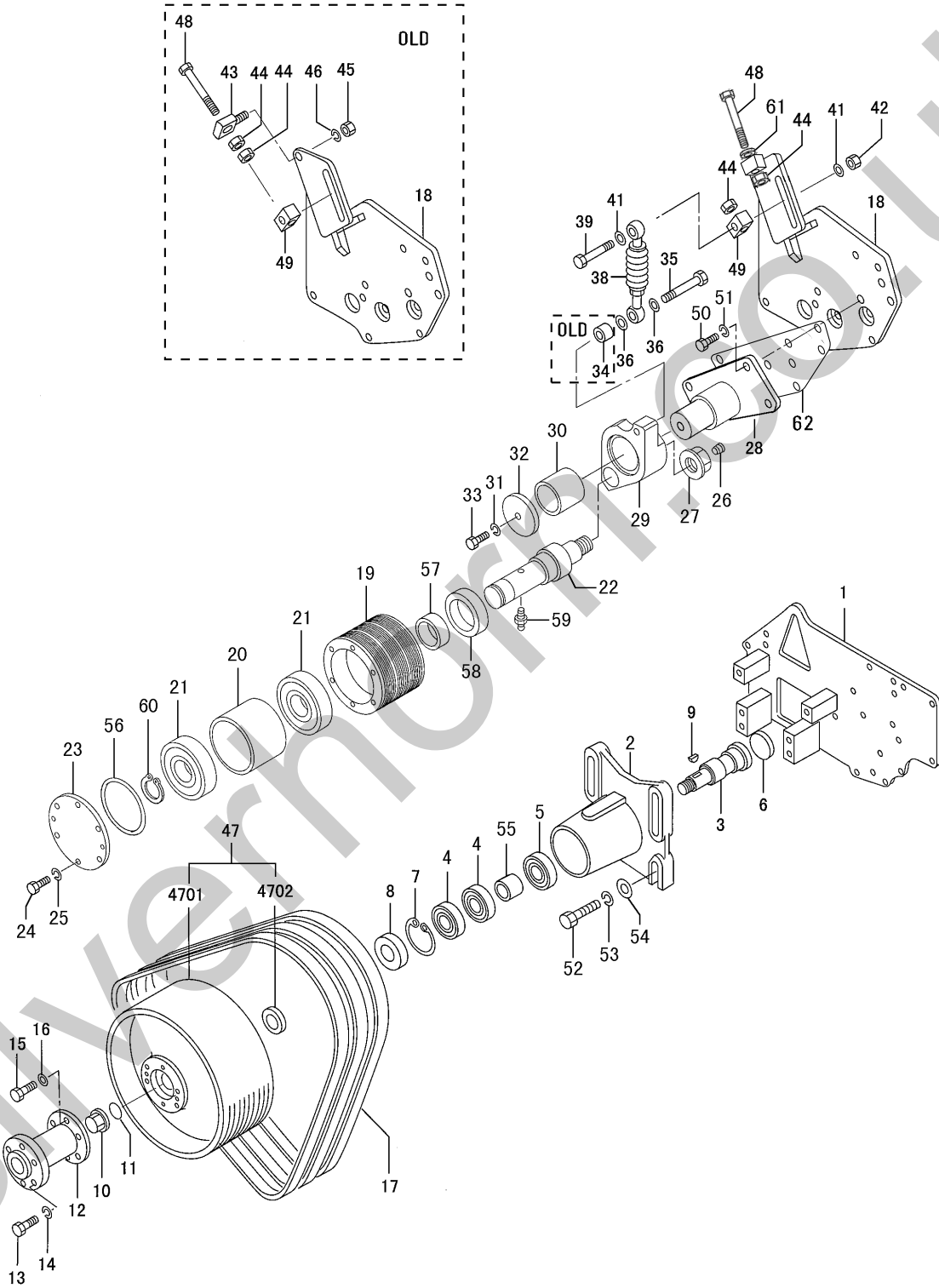
46-02 COOLING SYSTEM(PART-2)

61

REF. -NO.	PART NO.	R / P	SC EN G	PART NAME & DESCRIPTION	MODEL & QTY			APPLICABLE SERIAL NO.		V R D	M / R
					Y1TAA1			FROM@-	-@UPTO		
1	HF200512025			BOLT,W/WASHER	B/W	2					A
2	H3264672500			PIPE,BY-PASS		1					A
3	HF315304500			O-RING		2					A
4	HF103510025			BOLT		4					A
5	HF251510000			WASHER,SPRING		4					A
7	H3264601700			BRACKET		1					A
8	H3264652800			CLAMP		3					A
9	HF103510020			BOLT		4					A
10	HF251510000			WASHER,SPRING		6					A
11	H0482640050			COUPLING		2					A
12	H3264651012			PIPE ASSY,WATER		1					A
12:01	H0482623500			CAP,SEALING		4					A
12:02	H3264651102			PIPE,WATER		1					A
13	HF115512075			BOLT		4					A
14	HF251512000			WASHER,SPRING		4					A
15	HF250012000			WASHER,PLAIN		4					A
16	H3264661200			JOINT		1					A
17	HF315009000			O-RING		2					A
18	H3253902100			JOINT		1					A
19	HF315306000			O-RING		2					A
20	H3264606900			COVER		1					A
21	HF315306000			O-RING		1					A
22	HF200512030			BOLT,W/WASHER	B/W	2					A
23	H3264610800			PIPE,WATER		1					A
24	HF500610000			PLUG,TAPERED		1					A
25	HF315307000			O-RING		1					A
26	HF200510025			BOLT,W/WASHER	B/W	3					A
27	H3253902100			JOINT		1					A
28	HF315306000			O-RING		2					A
29	H3264614700			STAY		1					A
30	HF200510016			BOLT,W/WASHER	B/W	2					A
31	HF180510016			BOLT,W/WASHER	B/W	1					A
32	H3264601500			PIPE,BY-PASS		1					A
33	HF500621000			PLUG,TAPERED		1					A
34	H3264601600			STAY,BY-PASS PIPE		1					A
35	HF103510060			BOLT		2					A
36	HF103508020			BOLT		4					A
37	HF251508000			WASHER,SPRING		4					A

48 FAN DRIVE

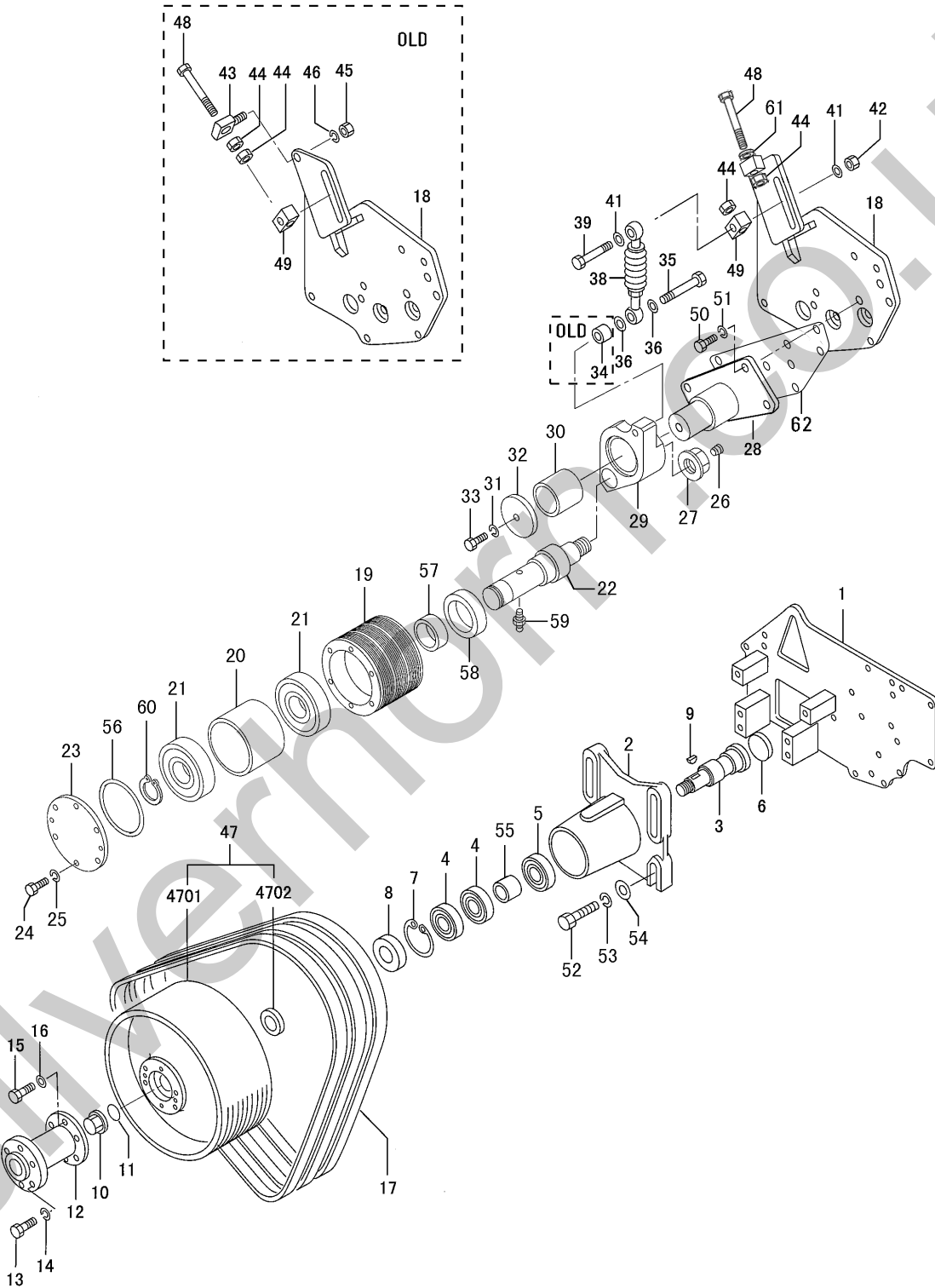
62



REF. -NO.	PART NO.	R / P	SC EN G	PART NAME & DESCRIPTION	MODEL & QTY			APPLICABLE SERIAL NO.		V R D	M / R
					Y1TAA1			FROM@-	-@UPTO		
1	H3264815100			PLATE,FAN DRIVE L.H	1						
2	H3264806100			BRACKET	1						
3	H3744801400			SHAFT	1						
4	HF800506409			BEARING,BALL	2						A
5	HF801006310			BEARING,BALL	1						A
6	H0482627000			CAP,SEALING	1						
7	HF320212000			RING,SNAP	1						A
8	HF301510023			SEAL,OIL	1						A
9	HF287008025			KEY,WOODRUFF	1						
10	H3254802900			NUT,CAP	1						
11	HF315305500			O-RING	1						A
12	H3264805600			SPACER,FAN	1						
13	HF103512055			BOLT	8						A
14	H34A4802100			WASHER	8						
15	HF103512050			BOLT	8						
16	H34A4802200			WASHER	8						
17	H3264806400			V-BELT,FAN DRIVE	1						
18	*			PLATE,FAN	1						
	H3264826200	11	C	PLATE,FAN	1						V
19	H3264815400			PULLEY,FAN	1						
20	H3264808600			SPACER,TENSION	1						
21	HF800506409			BEARING,BALL	2						A
22	H3264817300			SHAFT,FAN TENSION	1						
23	H3264808500			COVER,BEARING	1						
24	HF103508025			BOLT	6						A
25	HF251508000			WASHER,SPRING	6						A
26	HF500510000			PLUG,TAPERED	1						A
27	H32A2002900			NUT,CRANKSHAFT	1						
28	H3264817400			PLATE,FAN	1						
29	H3264817500			IDLER,TENSION	1						
30	H3264818100			METAL,FAN TENSION	1						
31	H34A4802200			WASHER	1						A
32	*			PLATE,END	1						
	H3264827600	11	C	PLATE,END	1						V
33	HF103512035			BOLT	1						A
34	H3066852600		D	SPACER	1				-22785		
35	H3264808700			BOLT	1						A
36	H3331101600			WASHER	1						A
38	H3264805900			SHOCK,ABSORBER	1						
39	H3264808800			BOLT	1						
41	H3331101600			WASHER	2						A
42	HF230012000			NUT,LOCK	1						A
43	H3754807500		D	BOSS,TENSION	1				-22785		
44	HF232014000		C	NUT,JAM	2				-22785		A
	H0563341600	N1		NUT	2			22786-			V
45	HF230014000		D	NUT,LOCK	1				-22785		A
46	HF251514000		D	WASHER,SPRING	1				-22785		A
47	H3264803020			PULLEY ASSY,FAN	1						
47:01	H3264806300			PULLEY,FAN	1						
47:02	H3744803200			SLEEVE	1						

48 FAN DRIVE

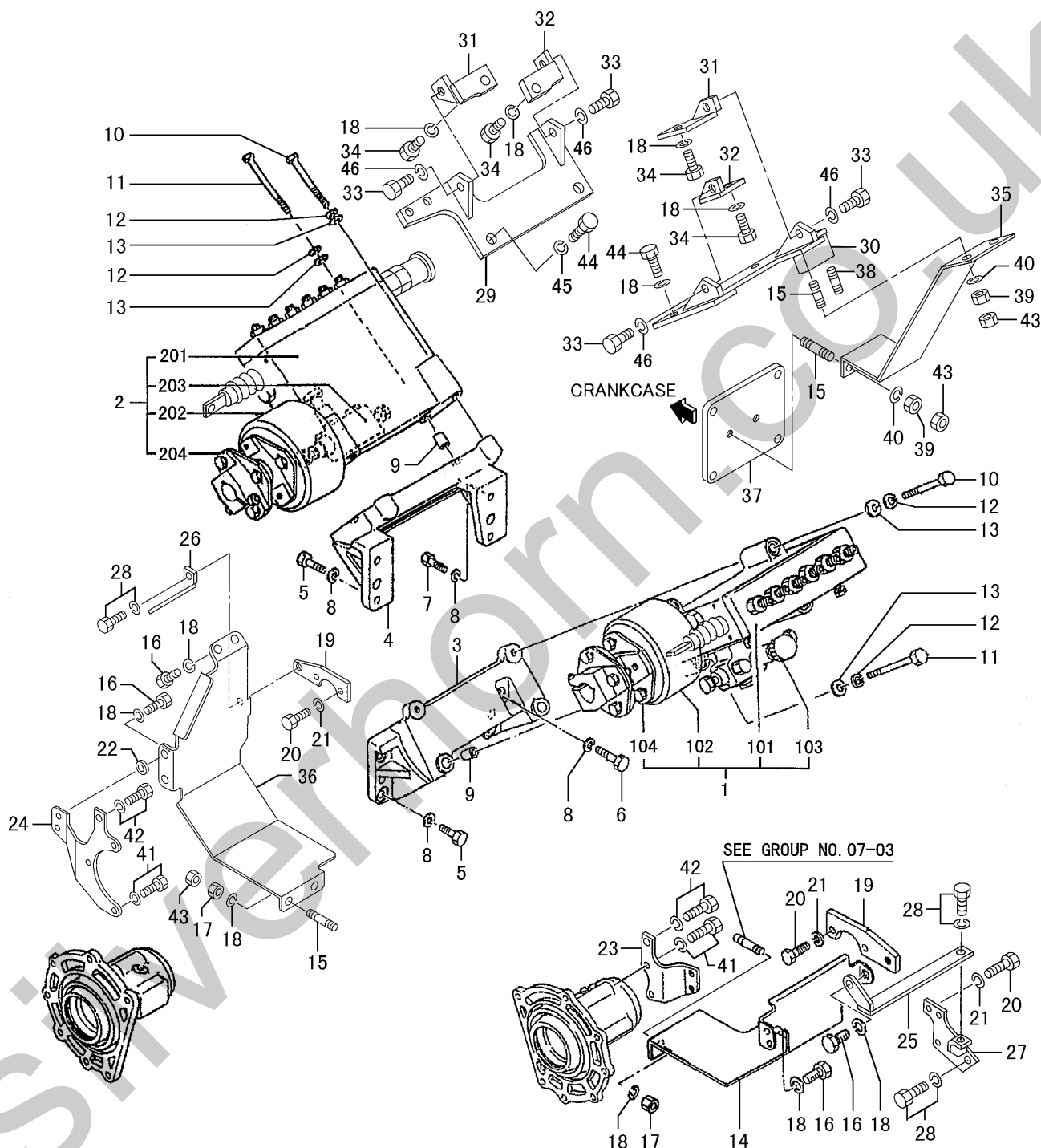
64



[illegible]

61-01 FUEL INJECTION PUMP GENERAL

66



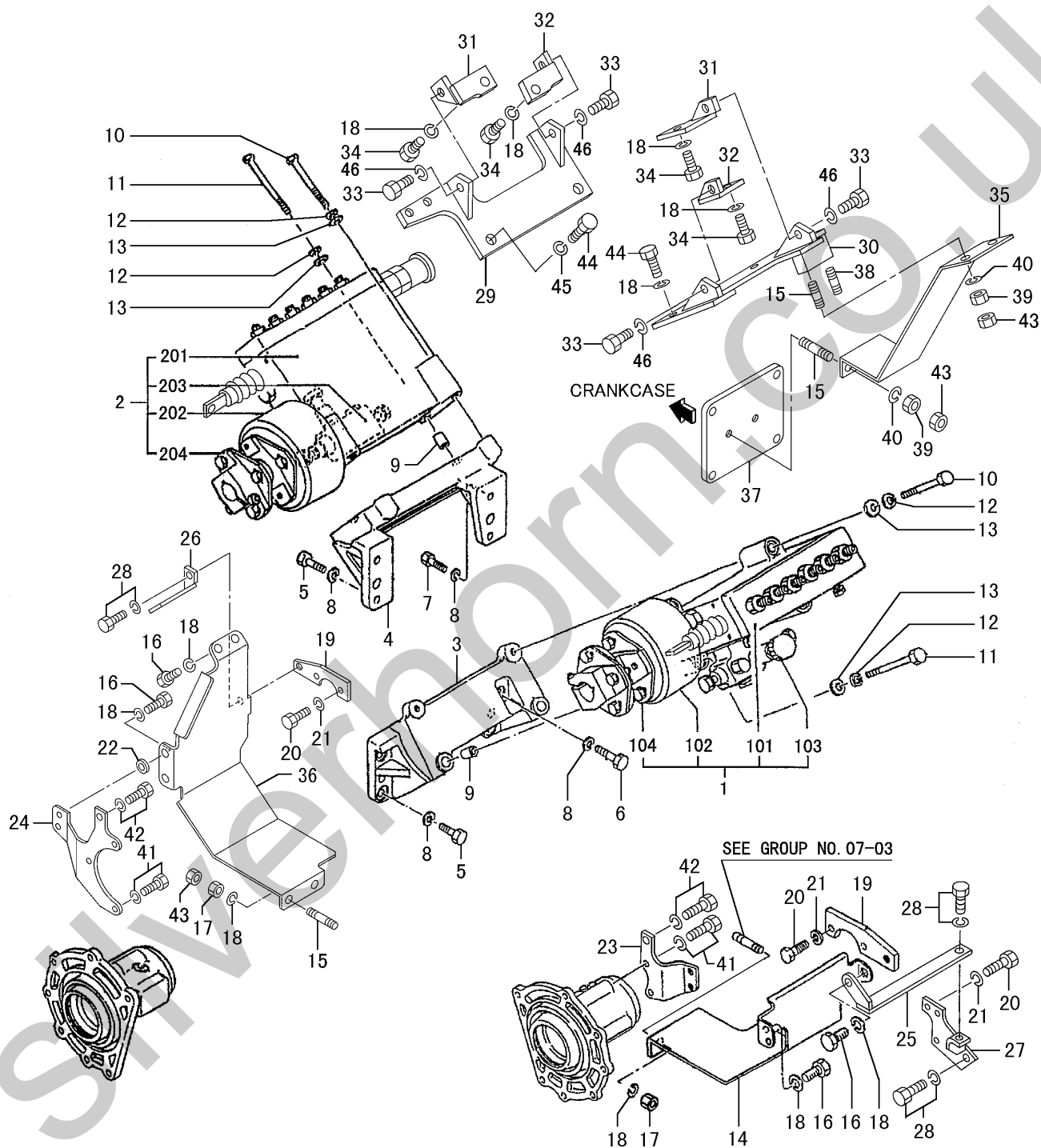
61-01 FUEL INJECTION PUMP GENERAL

67

REF. -NO.	PART NO.	R / P	SC EN Q	PART NAME & DESCRIPTION		MODEL & QTY			APPLICABLE SERIAL NO.		V M / R D
						Y1TAA1			FROM@-	-@UPTO	
1	H3266521040		C	PUMP GEN ASSY,INJ	R.H	1				-23033	
	H3266500310	31		PUMP GEN ASSY,INJ		1					
1:01	*			PUMP ASSY,INJ		1					
1:02	H35A6507110			COUPLING		1					
1:03	H35A6506060			PUMP,FEED		1					
1:04	H35A6508060			COUPLING ASSY		1					
2	H3266512040		C	PUMP GEN ASSY,INJ	L.H	1				-23033	
	H3266500320	31		PUMP GEN ASSY,INJ		1					
2:01	*			PUMP ASSY,INJ		1					
2:02	H35A6507110			COUPLING		1					
2:03	H35A6506060			PUMP,FEED		1					
2:04	H35A6508060			COUPLING ASSY		1					
3	H3266121100		C	BRACKET,INJ PUMP	R.H	1				-22736	
	H3266131100	31		BRACKET,INJ PUMP	R.H	1					
4	H3266121200		C	BRACKET,INJ PUMP	L.H	1				-22736	
	H3266131200	31		BRACKET,INJ PUMP	L.H	1					
5	HF115510030			BOLT		6					A
6	HF115510050			BOLT		1					A
7	HF115510070			BOLT		1					A
8	HF251510000			WASHER,SPRING		8					A
9	H3376111201			PIN		4					A
10	HF115510085			BOLT		4					A
11	HF115510100			BOLT		4					A
12	HF251510000			WASHER,SPRING		8					A
13	HF250010000			WASHER,PLAIN		8					A
14	H3266151500			COVER,COUPLING,R.H		1					
15	H3260717900			STUD		4					
16	HF103510016			BOLT		6					A
17	HF230010000			NUT		4					
18	HF251510000			WASHER,SPRING		18					A
19	H3262503700			STAY		2					
20	HF103506016			BOLT		6					A
21	HF251506000			WASHER,SPRING		6					A
22	HF250008000			WASHER,PLAIN		1					A
23	H3266302600			STAY,COVER R.H		1					
24	H3266312500			STAY,COVER L.H		1					
25	H3266508200			STOPPER,PRIMING R.H		1					
26	H3266508300			STOPPER,PRIMING L.H		1					
27	H3266508100			PLATE,INJ CLAMP		1					
28	HF180510025			BOLT,W/WASHER	B/W	3					A
29	H3266153800			STAY,INJ PUMP	L.H	1					
30	H3266153700		C	STAY,INJ PUMP	R.H	1				@22950	
	H3266163700	31		STAY,INJ PUMP		1					
31	H3266163500			STAY,INJ PUMP		2					
32	H3266163600			STAY,INJ PUMP		2					
33	HF103512035			BOLT		4					A
34	HF115510025			BOLT		4					A
35	H3266171900			PLATE,TAMPER R.H		1					
36	H3266151800			PLATE,TAMPER L.H		1					
37	H3260718100			COVER,SIDE		1					

61-01 FUEL INJECTION PUMP GENERAL

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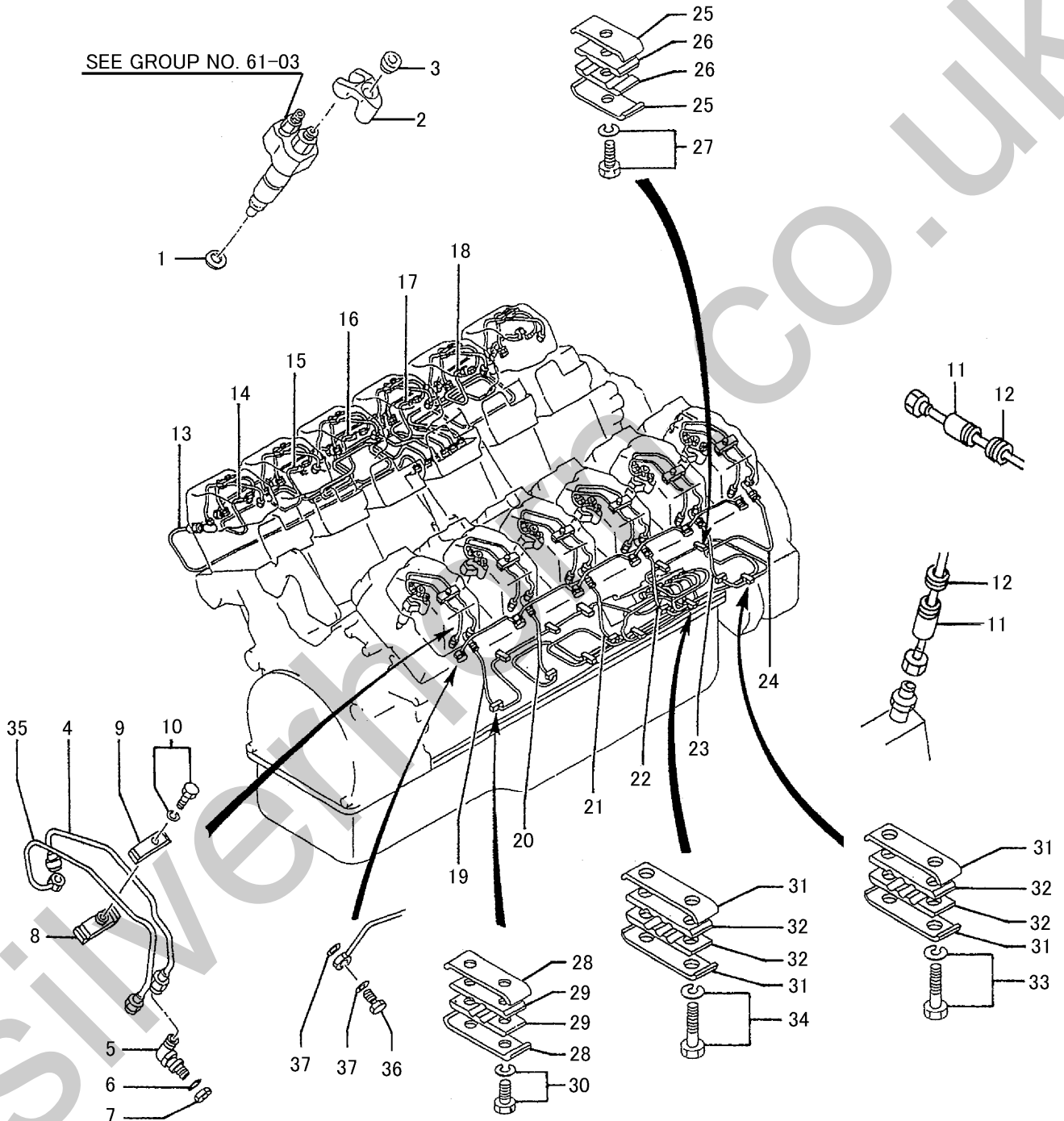
61-01 FUEL INJECTION PUMP GENERAL

69

[illegible]

61-02 FUEL SYSTEM

70



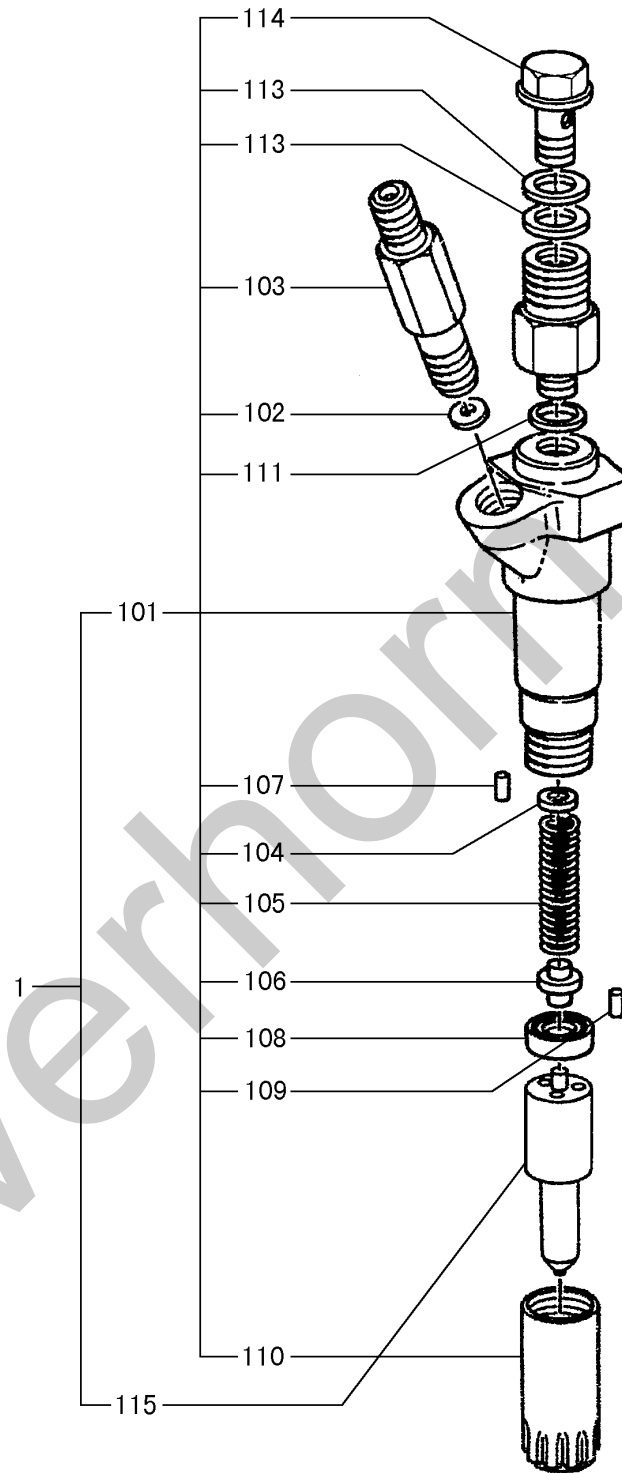
61-02 FUEL SYSTEM

71

REF. -NO.	PART NO.	R / P	SC EN Q	PART NAME & DESCRIPTION	MODEL & QTY			APPLICABLE SERIAL NO.		V R D	M / R
					Y1TAA1			FROM@-	-@UPTO		
1	H3096116400			GASKET	12						A
2	H3256110500			GLAND,NOZZLE	12						
3	H4206104300			SEAT	12						
4	H3256151200			PIPE,INJECTION	12						
5	H3256134201			L-JOINT	12						
6	H0550710120			O-RING	12						A
7	H3376114300			NUT	12						A
8	H3256133301			CLAMP	12						A
9	H3256123400			CLAMP	12						A
10	HF180508030			BOLT,W/WASHER	12	B/W					A
11	H3356116100			COVER	24						
12	H3356116200			HOLDER	24						
13	H3266165100			PIPE,INJ NO.1	1						
14	H3266165200			PIPE,INJ NO.2	1						
15	H3266165300			PIPE,INJ NO.3	1						
16	H3266165400			PIPE,INJ NO.4	1						
17	H3266165500			PIPE,INJ NO.5	1						
18	H3266165600			PIPE,INJ NO.6	1						
19	H3266165700			PIPE,INJ NO.7	1						
20	H3266165800			PIPE,INJ NO.8	1						
21	H3266165900			PIPE,INJ NO.9	1						
22	H3266166100			PIPE,INJ NO.10	1						
23	H3266166200			PIPE,INJ NO.11	1						
24	H3266166300			PIPE,INJ NO.12	1						
25	H3266156800			CLAMP	20						A
26	H3266166900			SEAT,PIPE	20						
27	HF180508025			BOLT,W/WASHER	10	B/W					A
28	H3216113600			CLAMP	20						A
29	H35A6121700			SEAT,PIPE	20						
30	HF180508030			BOLT,W/WASHER	20	B/W					A
31	H3216113500			CLAMP	34						A
32	H3626105900			SEAT,PIPE	34						
33	HF180508045			BOLT,W/WASHER	16	B/W					A
34	HF180508030			BOLT,W/WASHER	2	B/W					A
35	H3256161300			PIPE,FUEL	12						
36	H3253602801			BOLT,EYE	12						A
37	H0594601001			WASHER,SEALING	24						A

61-03 NOZZLE ASSY

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61-03 NOZZLE ASSY

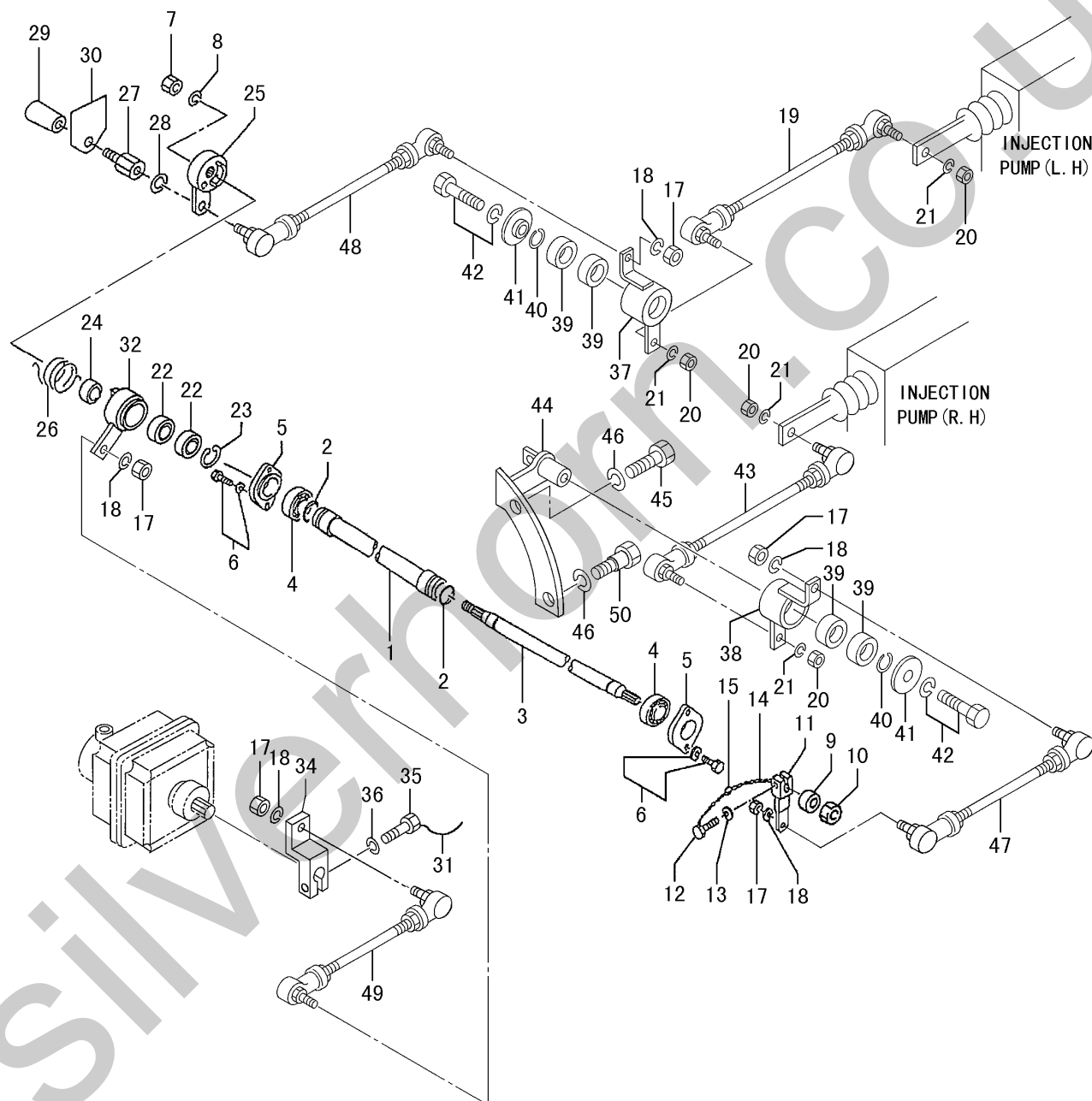
73

REF. -NO.	PART NO.	R / P	SC EN QG	PART NAME & DESCRIPTION	MODEL & QTY			APPLICABLE SERIAL NO.		V R D	M / R
					Y1TAA1			FROM@-	-@UPTO		
1	H35A6101030			NOZZLE ASSY	12						
1:01	H35A6109700			HOLDER ASSY,NOZZLE	12						
1:02	H0293005070			GASKET	12						A
1:03	H1506460000			CONNECTOR,INLET	12						
1:04	H1505391620			SHIM	12						
	H1505900600			SHIM	AR						
	H1505900700			SHIM	AR						
	H1505900800			SHIM	AR						
	H1505900900			SHIM	AR						
	H1505901000			SHIM	AR						
	H1505901100			SHIM	AR						
	H1505901200			SHIM	AR						
	H1505901300			SHIM	AR						
1:05	H1505626200			SPRING,NOZZLE	12						A
1:06	H1505505500			ROD,PUSH	12						
1:07	H1505251700			PIN	24						
1:08	H1505246600			SPACER	12						
1:09	H1505083300			PIN	24						
1:10	H1506515400			NUT,RETAINING	12						
1:11	H0265101340			GASKET	12						A
1:12	H1506098200			CONNECTOR	12						
1:13	H1395100100			GASKET	24						A
1:14	H1506132100			BOLT,EYE	12						A
1:15	H33B6100010			TIP ASSY,NOZZLE	12						

61-04 FUEL RACK CONTROL

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FORWARD



61-04 FUEL RACK CONTROL

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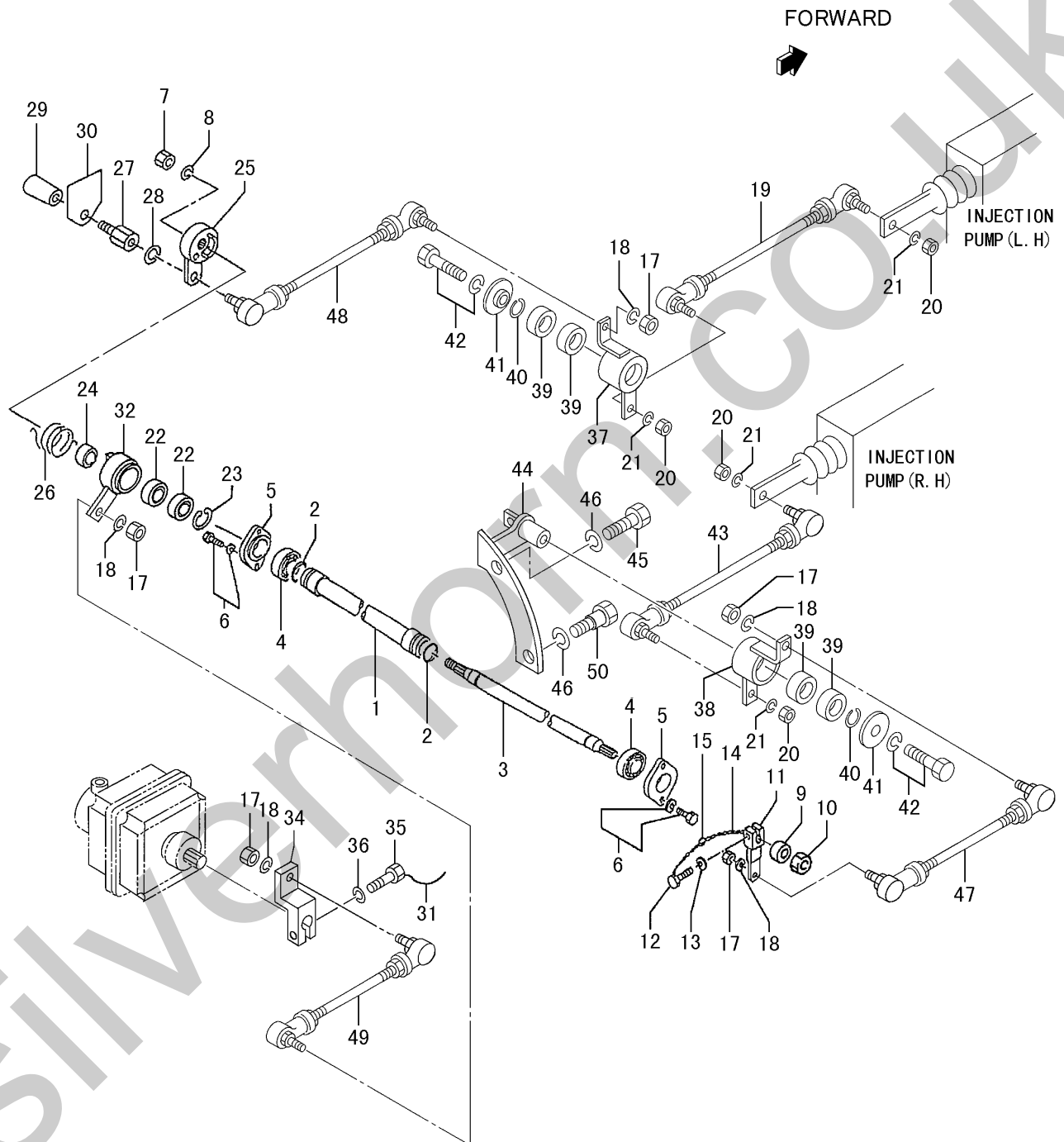
REF. -NO.	PART NO.	R / P	SC ENG Q	PART NAME & DESCRIPTION	MODEL & QTY			APPLICABLE SERIAL NO.		V M / R D
					Y1TAA1			FROM@-	-@UPTO	
1	H3266101400			PIPE,T/G CASE	1					
2	H0550710220			O-RING	2					A
3	H3266104400			SHAFT,CONTROL	1					
4	HF800706203		C	BEARING,BALL	2			-22564		A
	H3266306200	31		BEARING,BALL	1					V
5	H3746100500			COVER,BEARING	2					
6	HF180508016			BOLT,W/WASHER	4		B/W			A
7	HF244510000			NUT,SELF LOCKING	1					A
8	HF251510000			WASHER,SPRING	1					A
9	H3776306200			SPACER	1					
10	H3776306400			NUT,LOCK	1					
11	H3266101300			LEVER,CONTROL	1					
12	HF111508025			BOLT,LOCKING WIRE	1					A
13	HF251508000			WASHER,SPRING	1					A
14	H3446107700		C	WIRE,SEAL	2			-22564		
	H35A6109900	31		WIRE,SEAL	1					V
15	H4800096600			SEAL	2					A
16	H0590208100			ROD	1					
17	HF230008000			NUT	5					A
18	HF251508000			WASHER,SPRING	5					A
19	H3266313600			LINK,CONTROL L.H	1					
20	HF230006000			NUT	4					A
21	HF251506000			WASHER,SPRING	4					A
22	H3756300900			BEARING,BALL	2					A
23	HF320203200			RING,SNAP	1					A
24	H9136503200			SPACER	1					
25	H3266318200			LEVER	1					
26	*		C	SPRING	1					A
	H3266154700	11		SPRING	1					V
27	H3266159500			CONNECTOR	1					
28	HF251508000			WASHER,SPRING	1					A
29	H5177603000			GRIP	1					
30	H4594030200			PLATE,CAUTION	1					
31	H3446107700			WIRE,SEAL	1					
32	H3266327800			LEVER	1					
34	H3266307900			LEVER,ACTUATOR	1					
35	HF103508025			BOLT	1					A
36	HF251508000			WASHER,SPRING	1					A
37	H3266302300			LEVER	1					
38	H3266302400			LEVER	1					
39	H3756300800			BEARING,BALL	4					A
40	HF320203000			RING,SNAP	2					A
41	H3256118300			PLATE,END	2					
42	HF180510040			BOLT,W/WASHER	2		B/W			A
43	H3266313800			LINK,CONTROL R.H	1					
44	H3266312900			STAY,R.H	1					
45	HF115512055			BOLT	1					A
46	HF251512000			WASHER,SPRING	2					A
47	H3266323700			LINK,CONTROL R.H	1					
48	H3266313500			LINK,CONTROL L.H	1					

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61-04 FUEL RACK CONTROL

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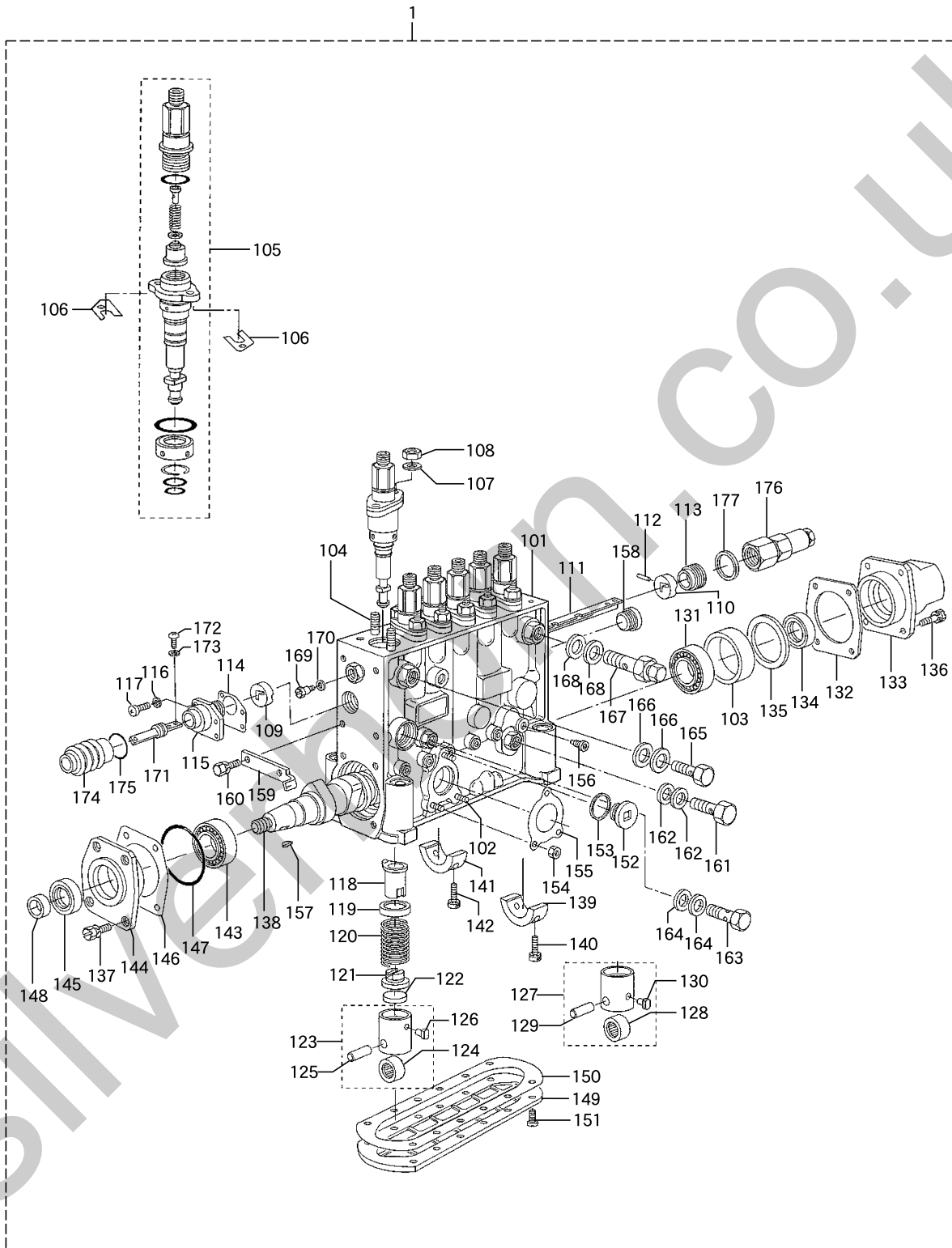
61-04 FUEL RACK CONTROL

77

[illegible]

61-05 INJECTION PUMP R.H

78



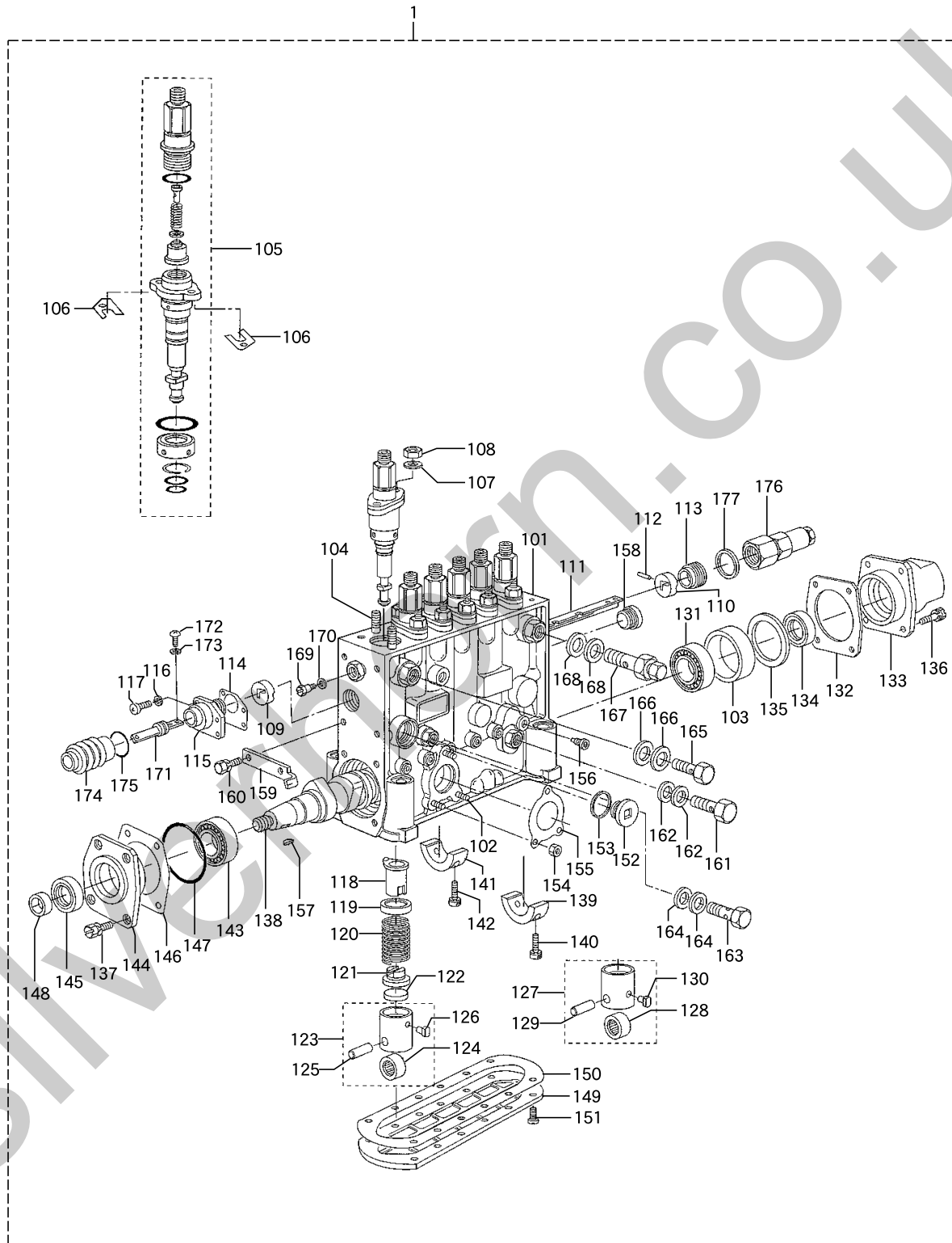
61-05 INJECTION PUMP R.H

79

REF. -NO.	PART NO.	R / P	SC EN G	PART NAME & DESCRIPTION		MODEL & QTY			APPLICABLE SERIAL NO.		V R D	M R
						Y1TAA1						
									FROM@-	-@UPTO		
1	*			PUMP ASSY,INJ,R.H	BAS	1						
1.01	H1340703921			HOUSING,PUMP		1						
1.02	H0290406020			STUD		3						
1.03	H1343110000			RING		1						
1.04	H1341380100			STUD		12						
1.05	H1341476220			BLOCK,PLUNGER		6						
1.06	H1394000900			SHIM	T=0.500	AR						A
1.06	H1394001000			SHIM	T=0.525	AR						A
1.06	H1394001100			SHIM	T=0.550	AR						A
1.06	H1394001200			SHIM	T=0.575	AR						A
1.06	H1394001300			SHIM	T=0.600	AR						A
1.06	H1394001400			SHIM	T=0.625	AR						A
1.06	H1394001500			SHIM	T=0.650	AR						A
1.06	H1394001600			SHIM	T=0.675	AR						A
1.06	H1394001700			SHIM	T=0.700	AR						A
1.06	H1394001800			SHIM	T=0.725	AR						A
1.06	H1394001900			SHIM	T=0.750	AR						A
1.06	H1394002000			SHIM	T=0.775	AR						A
1.06	H1394002100			SHIM	T=0.800	AR						A
1.06	H1394002200			SHIM	T=0.825	AR						A
1.06	H1394002300			SHIM	T=0.850	AR						A
1.06	H1394002400			SHIM	T=0.875	AR						A
1.06	H1394002500			SHIM	T=0.900	AR						A
1.06	H1394002600			SHIM	T=0.925	AR						A
1.06	H1394002700			SHIM	T=0.950	AR						A
1.06	H1394002800			SHIM	T=0.975	AR						A
1.06	H1394002900			SHIM	T=1.000	AR						A
1.06	H1394003000			SHIM	T=1.025	AR						A
1.06	H1394003100			SHIM	T=1.050	AR						A
1.06	H1394003200			SHIM	T=1.075	AR						A
1.06	H1394003300			SHIM	T=1.100	AR						A
1.06	H1394003400			SHIM	T=1.125	AR						A
1.06	H1394003500			SHIM	T=1.150	AR						A
1.06	H1394003600			SHIM	T=1.175	AR						A
1.06	H1394003700			SHIM	T=1.200	AR						A
1.06	H1394003800			SHIM	T=1.225	AR						A
1.06	H1394003900			SHIM	T=1.250	AR						A
1.06	H1394004000			SHIM	T=1.275	AR						A
1.06	H1394004100			SHIM	T=1.300	AR						A
1.06	H1394004200			SHIM	T=1.325	AR						A
1.06	H1394004300			SHIM	T=1.350	AR						A
1.06	H1394004400			SHIM	T=1.375	AR						A
1.06	H1394004500			SHIM	T=1.400	AR						A
1.06	H1394004600			SHIM	T=1.425	AR						A
1.06	H1394004700			SHIM	T=1.450	AR						A
1.06	H1394004800			SHIM	T=1.475	AR						A
1.06	H1394004900			SHIM	T=1.500	AR						A
1.06	H1394005000			SHIM	T=1.525	AR						A
1.06	H1394005100			SHIM	T=1.550	AR						A
1.06	H1394005200			SHIM	T=1.575	AR						A

61-05 INJECTION PUMP R.H

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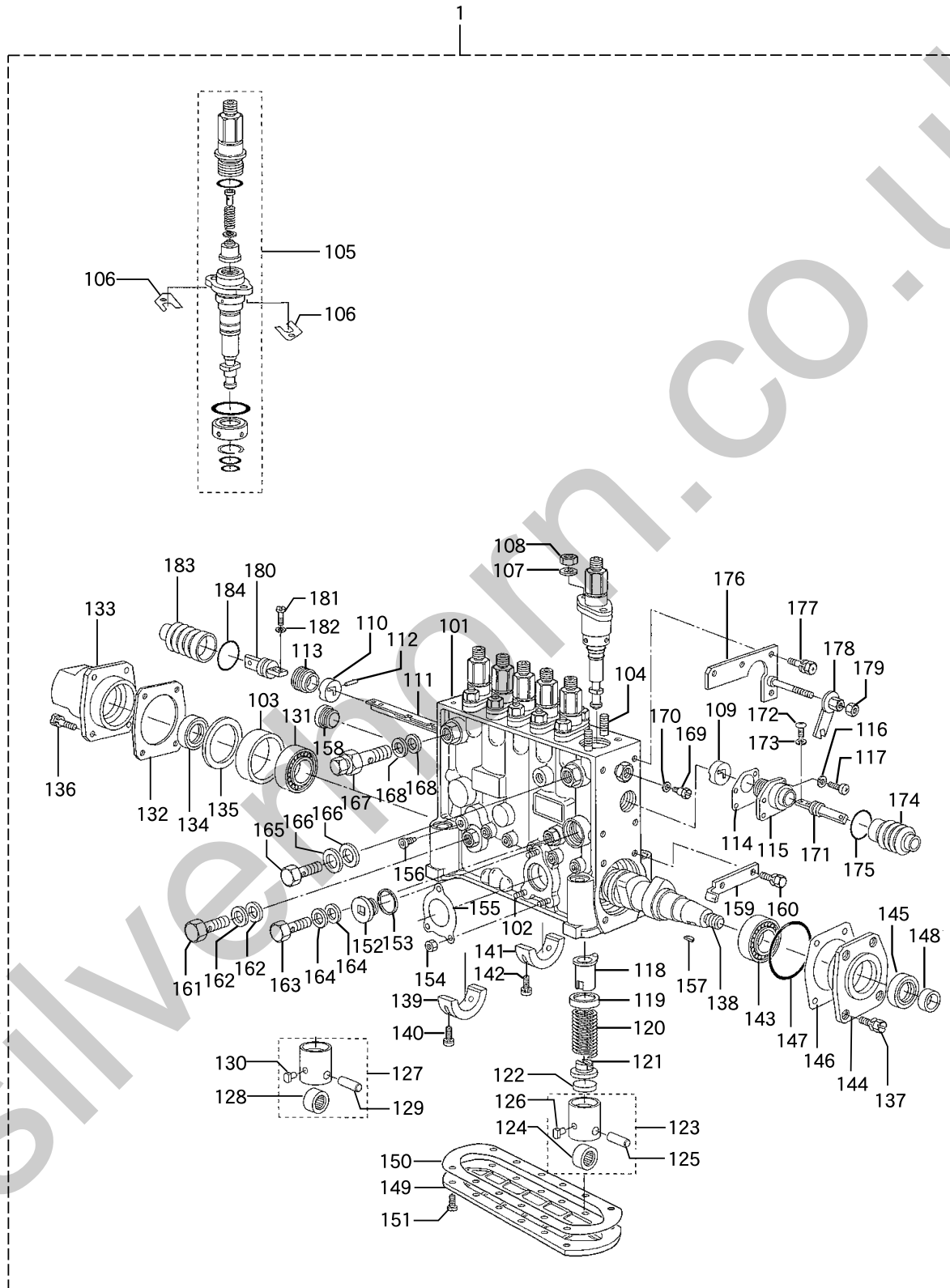
61-05 INJECTION PUMP R.H

81

REF. -NO.	PART NO.	R / P	SC EN G	PART NAME & DESCRIPTION	MODEL & QTY			APPLICABLE SERIAL NO.		V R D	M / R
					Y1TAA1			FROM@-	-@UPTO		
1:06	H1394005300			SHIM	T=1.600	AR					A
1:06	H1394005400			SHIM	T=1.625	AR					A
1:06	H1394005500			SHIM	T=1.650	AR					A
1:06	H1394005600			SHIM	T=1.675	AR					A
1:06	H1394005700			SHIM	T=1.700	AR					A
1:06	H1394005800			SHIM	T=1.725	AR					A
1:06	H1394005900			SHIM	T=1.750	AR					A
1:06	H1394006000			SHIM	T=1.775	AR					A
1:06	H1394006100			SHIM	T=1.800	AR					A
1:06	H1394006200			SHIM	T=1.825	AR					A
1:06	H1394006300			SHIM	T=1.850	AR					A
1:06	H1394006400			SHIM	T=1.875	AR					A
1:06	H1394006500			SHIM	T=1.900	AR					A
1:06	H1394006600			SHIM	T=1.925	AR					A
1:06	H1394006700			SHIM	T=1.950	AR					A
1:06	H1394006800			SHIM	T=1.975	AR					A
1:07	H1341320300			WASHER		12					A
1:08	H1392100200			NUT		12					A
1:09	H1340010200			BUSHING		1					
1:10	H1340010000			BUSHING		1					
1:11	H1342562620			RACK,CONTROL		1					
1:12	H0240302030			PIN		1					A
1:13	H1345102120			CONNECTOR		1					
1:14	H1345106800			GASKET		1					A
1:15	H1342221000			ADAPTER		1					
1:16	H0141104440			WASHER,SPRING		4					A
1:17	H0121541440			SCREW		4					A
1:18	H1342410620			SLEEVE,CONTROL		6					
1:19	H1342160000			SEAT,SPRING		6					
1:20	H1342150800			SPRING,PLUNGER		6					A
1:21	H1342170700			SEAT,SPRING		6					
1:22	H1345632700			SEAT		6					
1:23	H1342000820			TAPPET ASSY		4					
1:24	H1342040200			ROLLER		4					
1:25	H1342030000			PIN		4					A
1:26	H1312060500			GUIDE		4					
1:27	H1342000720			TAPPET ASSY		2					
1:28	H1342040200			ROLLER		2					
1:29	H1342030000			PIN		2					A
1:30	H1312060500			GUIDE		2					
1:31	H0166502230			BEARING,BALL		1					A
1:32	H1343120000			GASKET		1					A
1:33	H1343160320			COVER		1					
1:34	H0296217020			SEAL,OIL		1					A
1:35	H1343030500			SHIM		1					A
1:36	H1390064200			BOLT		4					A
1:37	H1390064100			BOLT		4					A
1:38	H1343400700			CAMSHAFT		1					
1:39	H1343061000			BEARING,CENTER		1					
1:40	H0201062040			BOLT		2					A

61-05 INJECTION PUMP R.H

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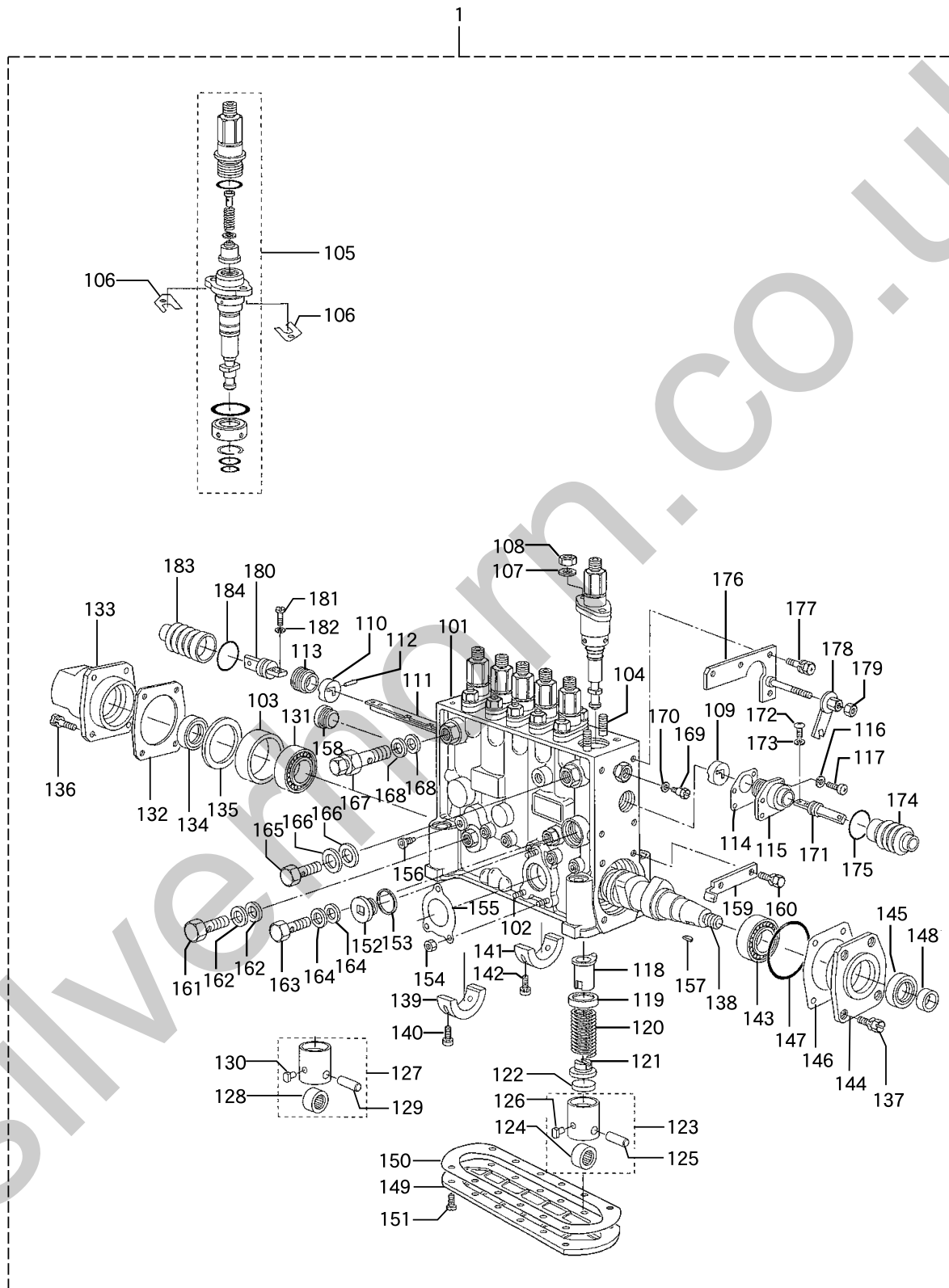
61-05 INJECTION PUMP R.H

83

REF. -NO.	PART NO.	R / P	SC EN G	PART NAME & DESCRIPTION	MODEL & QTY			APPLICABLE SERIAL NO.		V R D	M / R
					Y1TAA1			FROM@-	-@UPTO		
1:41	H1343061100			BEARING,CENTER	2						
1:42	H0201062040			BOLT	4						A
1:43	H0353020600			BEARING,BALL	1						A
1:44	H1343163300			COVER	1						
1:45	H1396340200			SEAL,OIL	1						A
1:46	H1343140700			SHIM	AR						A
1:46	H1343140800			SHIM	AR						A
1:46	H1343140900			SHIM	AR						A
1:46	H1343141000			SHIM	AR						A
1:46	H1343141100			SHIM	AR						A
1:46	H1343141200			SHIM	AR						A
1:46	H1343141300			SHIM	AR						A
1:47	H1397660200			O-RING	1						A
1:48	H1345632500			SLEEVE	1						
1:49	H1340430800			COVER	1						
1:50	H1340421400			GASKET	1						A
1:51	H0122061640			SCREW	12						A
1:52	H1340450100			PLUG	1						A
1:53	H0265242940			GASKET	1						A
1:54	H1392060400			NUT	3						A
1:55	H1310410800			GASKET	1						A
1:56	H1340470000			PLUG	6						A
1:57	H0258062210			KEY,WOODRUFF	1						
1:58	H1340260000			PLUG	1						A
1:59	H1344963400			POINTER	1						
1:60	H0200061240			BOLT	2						A
1:61	H0297314680			BOLT,EYE	1						A
1:62	H0293414130			WASHER,SEALING	2						A
1:63	H1344300200			BOLT,EYE	1						A
1:64	H0293410110			GASKET	2						A
1:65	H0297314570			BOLT,EYE	1						A
1:66	H0293414130			WASHER,SEALING	2						A
1:67	H1314243420			VALVE,OVERFLOW	1						
1:68	H0293414130			WASHER,SEALING	2						A
1:69	H1314200400			BOLT	1						A
1:70	H0265061040			GASKET	1						A
1:71	H1345106700			CONNECTOR	1						
1:72	H0106351240			SCREW	2						A
1:73	H0141105440			WASHER,SPRING	2						A
1:74	H1345105000			COVER	1						
1:75	H0296326030			O-RING	1						A
1:76	H1390160600			BOLT	1						A
1:77	H0265162040			GASKET	1						A

61-06 INJECTION PUMP L.H

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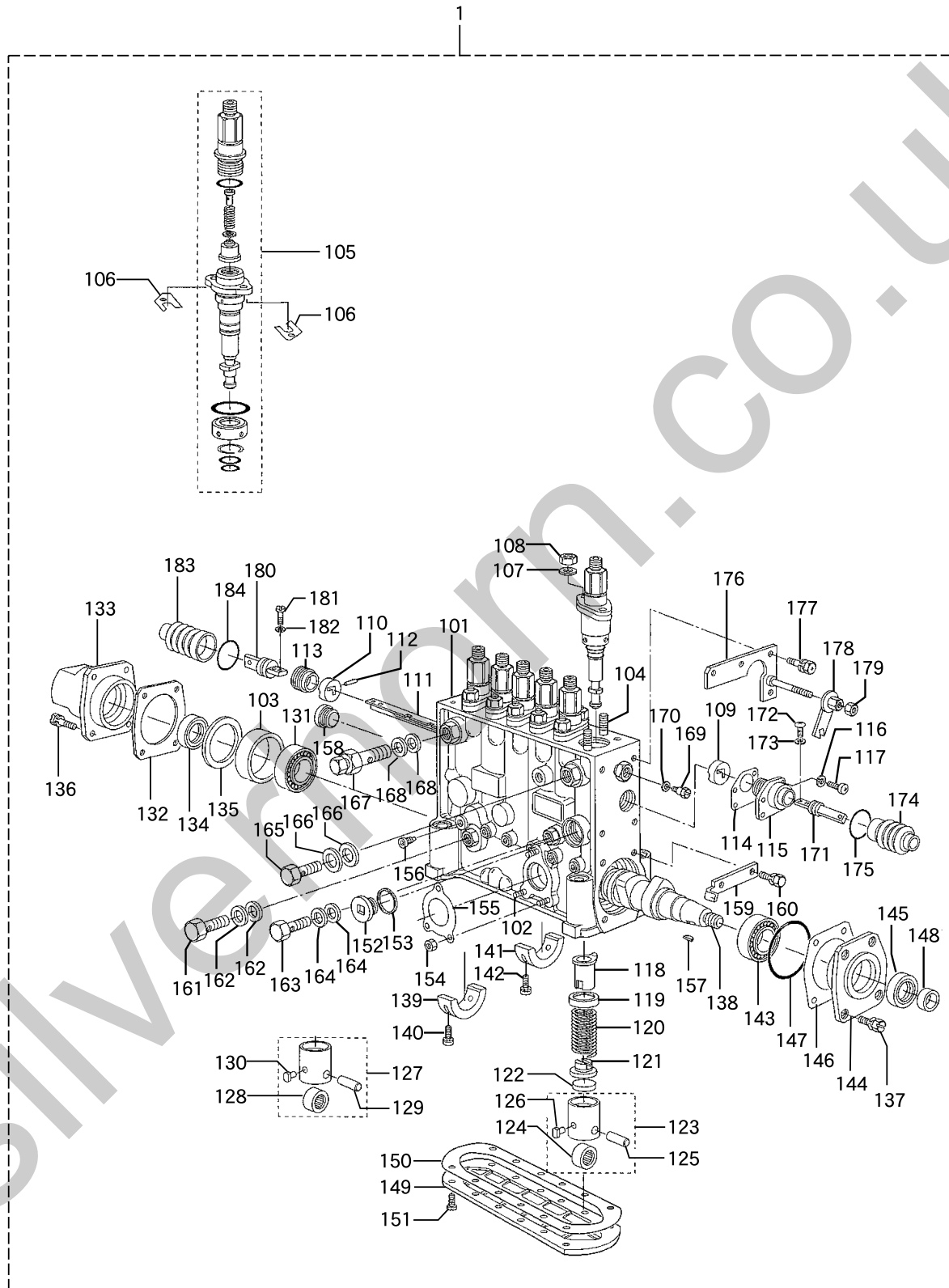
61-06 INJECTION PUMP L.H

85

REF. -NO.	PART NO.	R / P	SC EN G	PART NAME & DESCRIPTION		MODEL & QTY			APPLICABLE SERIAL NO.		M / R
						Y1TAA1			FROM@-	-@UPTO	
1	*			PUMP ASSY,INJ,L.H	BAS	1					
1:01	H1340704021			HOUSING,PUMP		1					
1:02	H0290406020			STUD		3					
1:03	H1343110000			RING		1					
1:04	H1341380100			STUD		12					
1:05	H1341476220			BLOCK,PLUNGER		6					
1:06	H1394000900			SHIM	T=0.500	AR					A
1:06	H1394001000			SHIM	T=0.525	AR					A
1:06	H1394001100			SHIM	T=0.550	AR					A
1:06	H1394001200			SHIM	T=0.575	AR					A
1:06	H1394001300			SHIM	T=0.600	AR					A
1:06	H1394001400			SHIM	T=0.625	AR					A
1:06	H1394001500			SHIM	T=0.650	AR					A
1:06	H1394001600			SHIM	T=0.675	AR					A
1:06	H1394001700			SHIM	T=0.700	AR					A
1:06	H1394001800			SHIM	T=0.725	AR					A
1:06	H1394001900			SHIM	T=0.750	AR					A
1:06	H1394002000			SHIM	T=0.775	AR					A
1:06	H1394002100			SHIM	T=0.800	AR					A
1:06	H1394002200			SHIM	T=0.825	AR					A
1:06	H1394002300			SHIM	T=0.850	AR					A
1:06	H1394002400			SHIM	T=0.875	AR					A
1:06	H1394002500			SHIM	T=0.900	AR					A
1:06	H1394002600			SHIM	T=0.925	AR					A
1:06	H1394002700			SHIM	T=0.950	AR					A
1:06	H1394002800			SHIM	T=0.975	AR					A
1:06	H1394002900			SHIM	T=1.000	AR					A
1:06	H1394003000			SHIM	T=1.025	AR					A
1:06	H1394003100			SHIM	T=1.050	AR					A
1:06	H1394003200			SHIM	T=1.075	AR					A
1:06	H1394003300			SHIM	T=1.100	AR					A
1:06	H1394003400			SHIM	T=1.125	AR					A
1:06	H1394003500			SHIM	T=1.150	AR					A
1:06	H1394003600			SHIM	T=1.175	AR					A
1:06	H1394003700			SHIM	T=1.200	AR					A
1:06	H1394003800			SHIM	T=1.225	AR					A
1:06	H1394003900			SHIM	T=1.250	AR					A
1:06	H1394004000			SHIM	T=1.275	AR					A
1:06	H1394004100			SHIM	T=1.300	AR					A
1:06	H1394004200			SHIM	T=1.325	AR					A
1:06	H1394004300			SHIM	T=1.350	AR					A
1:06	H1394004400			SHIM	T=1.375	AR					A
1:06	H1394004500			SHIM	T=1.400	AR					A
1:06	H1394004600			SHIM	T=1.425	AR					A
1:06	H1394004700			SHIM	T=1.450	AR					A
1:06	H1394004800			SHIM	T=1.475	AR					A
1:06	H1394004900			SHIM	T=1.500	AR					A
1:06	H1394005000			SHIM	T=1.525	AR					A
1:06	H1394005100			SHIM	T=1.550	AR					A
1:06	H1394005200			SHIM	T=1.575	AR					A

61-06 INJECTION PUMP L.H

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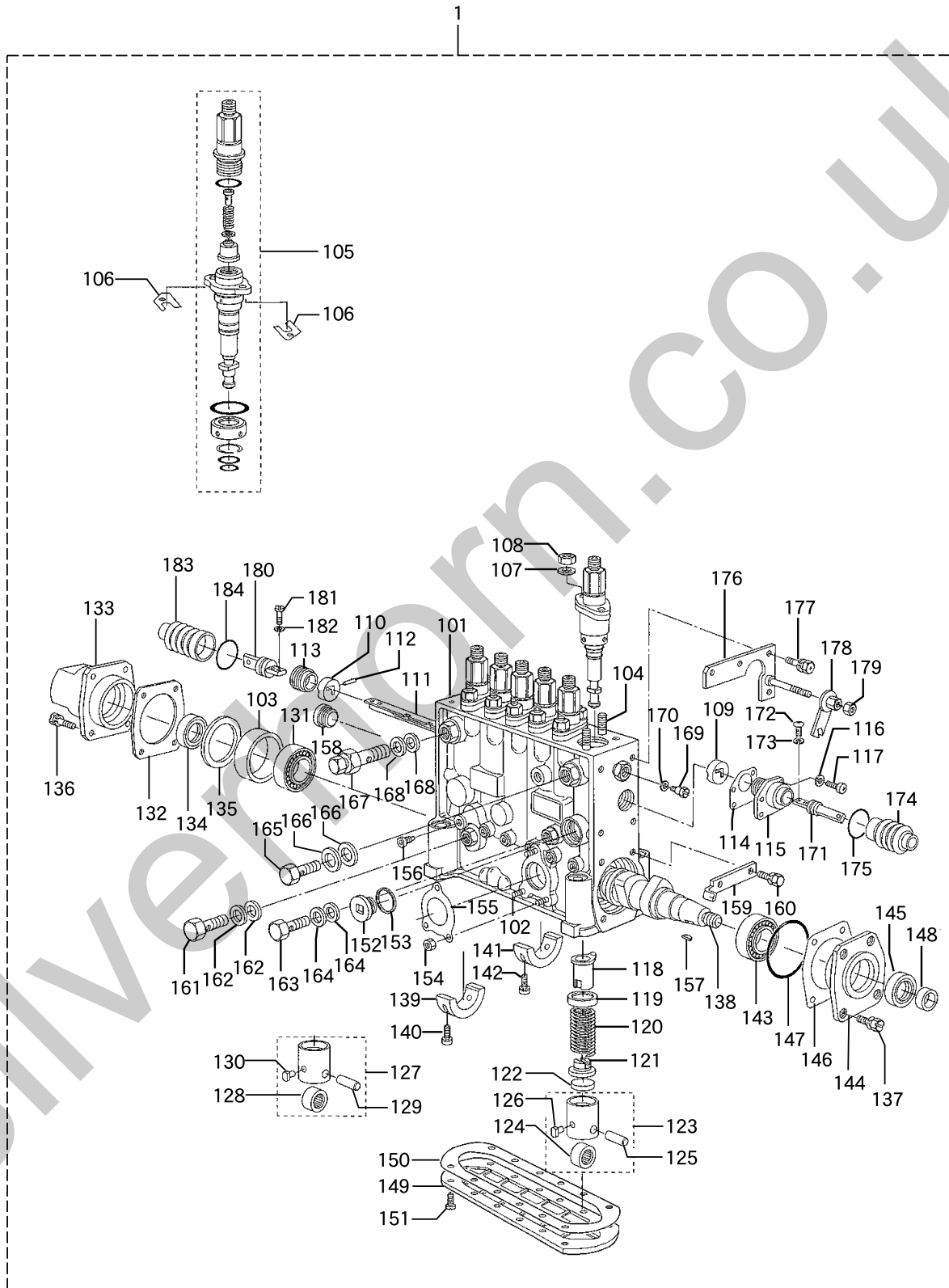
61-06 INJECTION PUMP L.H

87

REF. -NO.	PART NO.	R / P	SC ENG Q	PART NAME & DESCRIPTION	MODEL & QTY			APPLICABLE SERIAL NO.		V R D	M / R
					Y1TAA1			FROM@-	-@UPTO		
1:06	H1394005300			SHIM	T=1.600	AR					A
1:06	H1394005400			SHIM	T=1.625	AR					A
1:06	H1394005500			SHIM	T=1.650	AR					A
1:06	H1394005600			SHIM	T=1.675	AR					A
1:06	H1394005700			SHIM	T=1.700	AR					A
1:06	H1394005800			SHIM	T=1.725	AR					A
1:06	H1394005900			SHIM	T=1.750	AR					A
1:06	H1394006000			SHIM	T=1.775	AR					A
1:06	H1394006100			SHIM	T=1.800	AR					A
1:06	H1394006200			SHIM	T=1.825	AR					A
1:06	H1394006300			SHIM	T=1.850	AR					A
1:06	H1394006400			SHIM	T=1.875	AR					A
1:06	H1394006500			SHIM	T=1.900	AR					A
1:06	H1394006600			SHIM	T=1.925	AR					A
1:06	H1394006700			SHIM	T=1.950	AR					A
1:06	H1394006800			SHIM	T=1.975	AR					A
1:07	H1341320300			WASHER		12					A
1:08	H1392100200			NUT		12					A
1:09	H1340010200			BUSHING		1					A
1:10	H1340010000			BUSHING		1					A
1:11	H1342562500			RACK,CONTROL		1					A
1:12	H0240302030			PIN		1					A
1:13	H1342220200			BUSHING		1					A
1:14	H1345106800			GASKET		1					A
1:15	H1342221000			ADAPTER		1					A
1:16	H0141104440			WASHER,SPRING		4					A
1:17	H0121541440			SCREW		4					A
1:18	H1342410620			SLEEVE,CONTROL		6					A
1:19	H1342160000			SEAT,SPRING		6					A
1:20	H1342150800			SPRING,PLUNGER		6					A
1:21	H1342170700			SEAT,SPRING		6					A
1:22	H1345632700			SEAT		6					A
1:23	H1342000820			TAPPET ASSY		4					A
1:24	H1342040200			ROLLER		4					A
1:25	H1342030000			PIN		4					A
1:26	H1312060500			GUIDE		4					A
1:27	H1342000720			TAPPET ASSY		2					A
1:28	H1342040200			ROLLER		2					A
1:29	H1342030000			PIN		2					A
1:30	H1312060500			GUIDE		2					A
1:31	H0166502230			BEARING,BALL		1					A
1:32	H1343120000			GASKET		1					A
1:33	H1343160320			COVER		1					A
1:34	H0296217020			SEAL,OIL		1					A
1:35	H1343030500			SHIM		1					A
1:36	H1390064200			BOLT		4					A
1:37	H1390064100			BOLT		4					A
1:38	H1343400700			CAMSHAFT		1					A
1:39	H1343061000			BEARING,CENTER		1					A
1:40	H0201062040			BOLT		2					A

61-06 INJECTION PUMP L.H

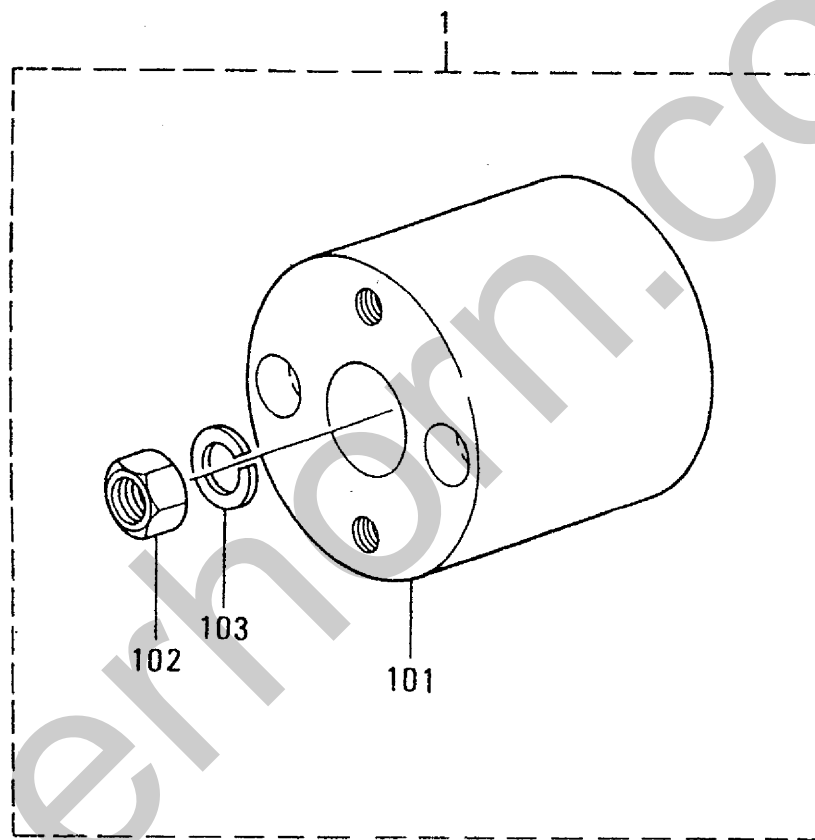
88



61-06 INJECTION PUMP L.H

89

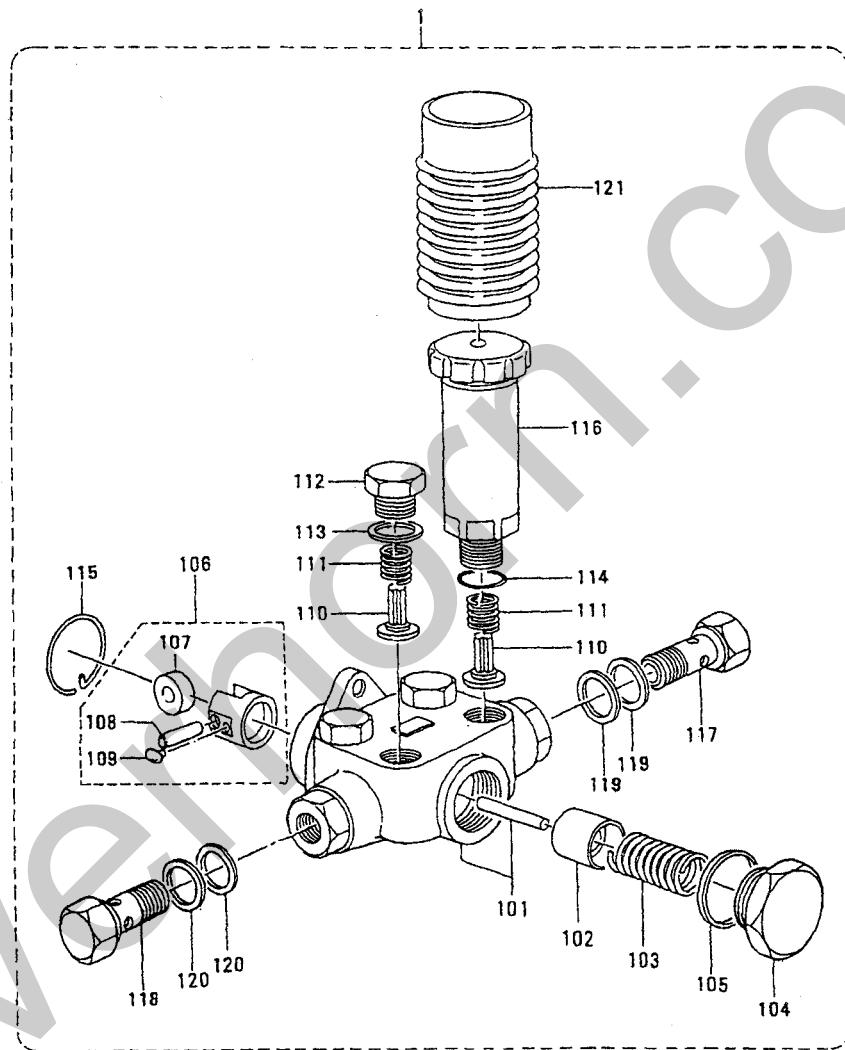
REF. -NO.	PART NO.	R / P	SC EN G	PART NAME & DESCRIPTION	MODEL & QTY			APPLICABLE SERIAL NO.		V M / R D
					Y1TAA1			FROM@-	-@UPTO	
1.41	H1343061100			BEARING,CENTER	2					
1.42	H0201062040			BOLT	4					A
1.43	H0353020600			BEARING,BALL	1					A
1.44	H1343163300			COVER	1					
1.45	H1396340200			SEAL,OIL	1					A
1.46	H1343140700			SHIM	AR					A
1.46	H1343140800			SHIM	AR					A
1.46	H1343140900			SHIM	AR					A
1.46	H1343141000			SHIM	AR					A
1.46	H1343141100			SHIM	AR					A
1.46	H1343141200			SHIM	AR					A
1.46	H1343141300			SHIM	AR					A
1.47	H1397660200			O-RING	1					A
1.48	H1345632500			SLEEVE	1					
1.49	H1340430800			COVER	1					
1.50	H1340421400			GASKET	1					A
1.51	H0122061640			SCREW	12					A
1.52	H1340450100			PLUG	1					A
1.53	H0265242940			GASKET	1					A
1.54	H1392060400			NUT	3					A
1.55	H1310410800			GASKET	1					A
1.56	H1340470000			PLUG	6					A
1.57	H0258062210			KEY,WOODRUFF	1					
1.58	H1340260000			PLUG	1					A
1.59	H1344963500			POINTER	1					
1.60	H0200061240			BOLT	2					A
1.61	H0297314680			BOLT,EYE	1					A
1.62	H0293414130			WASHER,SEALING	2					A
1.63	H1344300200			BOLT,EYE	1					A
1.64	H0293410110			GASKET	2					A
1.65	H0297314570			BOLT,EYE	1					A
1.66	H0293414130			WASHER,SEALING	2					A
1.67	H1314243420			VALVE,OVERFLOW	1					
1.68	H0293414130			WASHER,SEALING	2					A
1.69	H1314200400			BOLT	1					A
1.70	H0265061040			GASKET	1					A
1.71	H1345107720			CONNECTOR	1					
1.72	H0106351240			SCREW	2					A
1.73	H0141105440			WASHER,SPRING	2					A
1.74	H1345105000			COVER	1					
1.75	H0296326030			O-RING	1					A
1.76	H1345107520			BRACKET	1					
1.77	H0201062040			BOLT	3					A
1.78	H1345130300			PLATE	1					
1.79	H1540112100			NUT	1					A
1.80	H1345105600			CONNECTOR	1					
1.81	H0106351240			SCREW	2					A
1.82	H0141105440			WASHER,SPRING	2					A
1.83	H1345105000			COVER	1					
1.84	H0296326030			O-RING	1					A



61-07 COUPLING

91

[illegible]



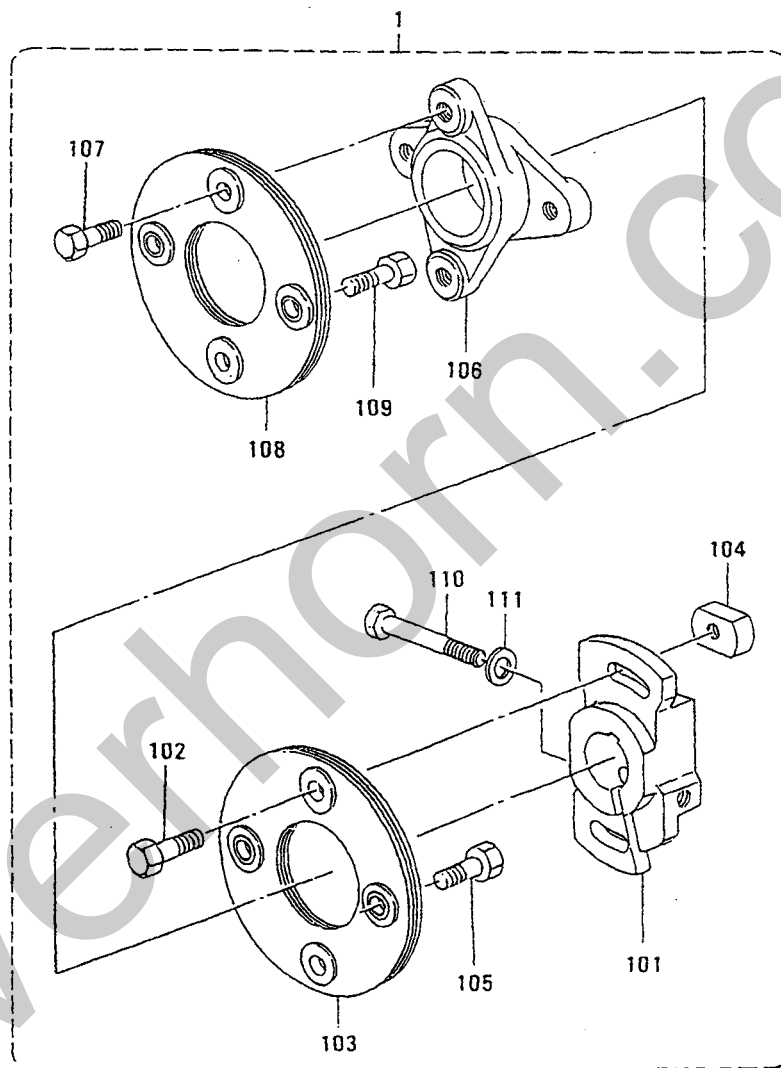
61-08 FEED PUMP

93

[illegible]

61-09 COUPLING ASSY

94



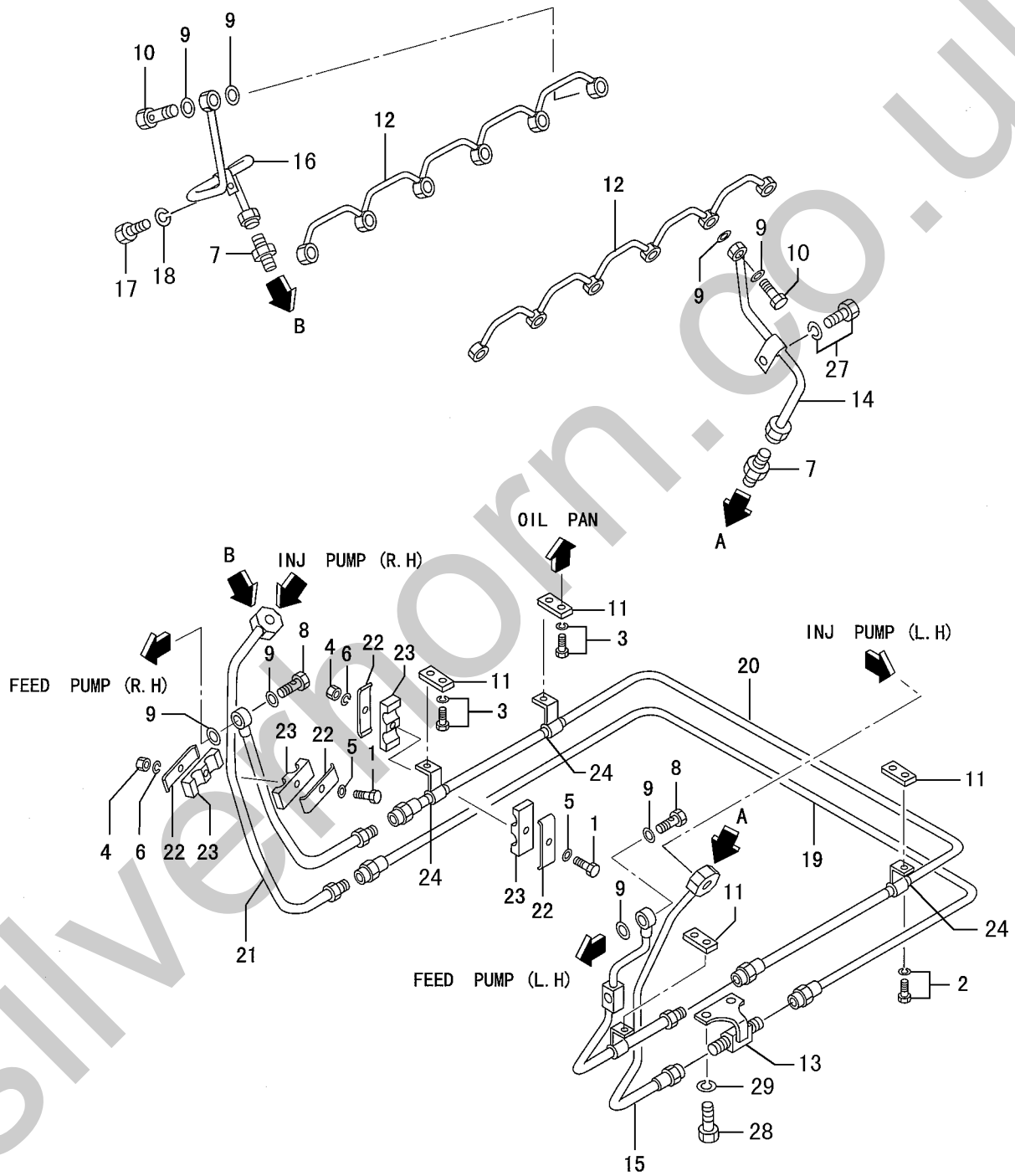
61-09 COUPLING ASSY

95

[illegible]

61-10 FUEL RETURN PIPING

96



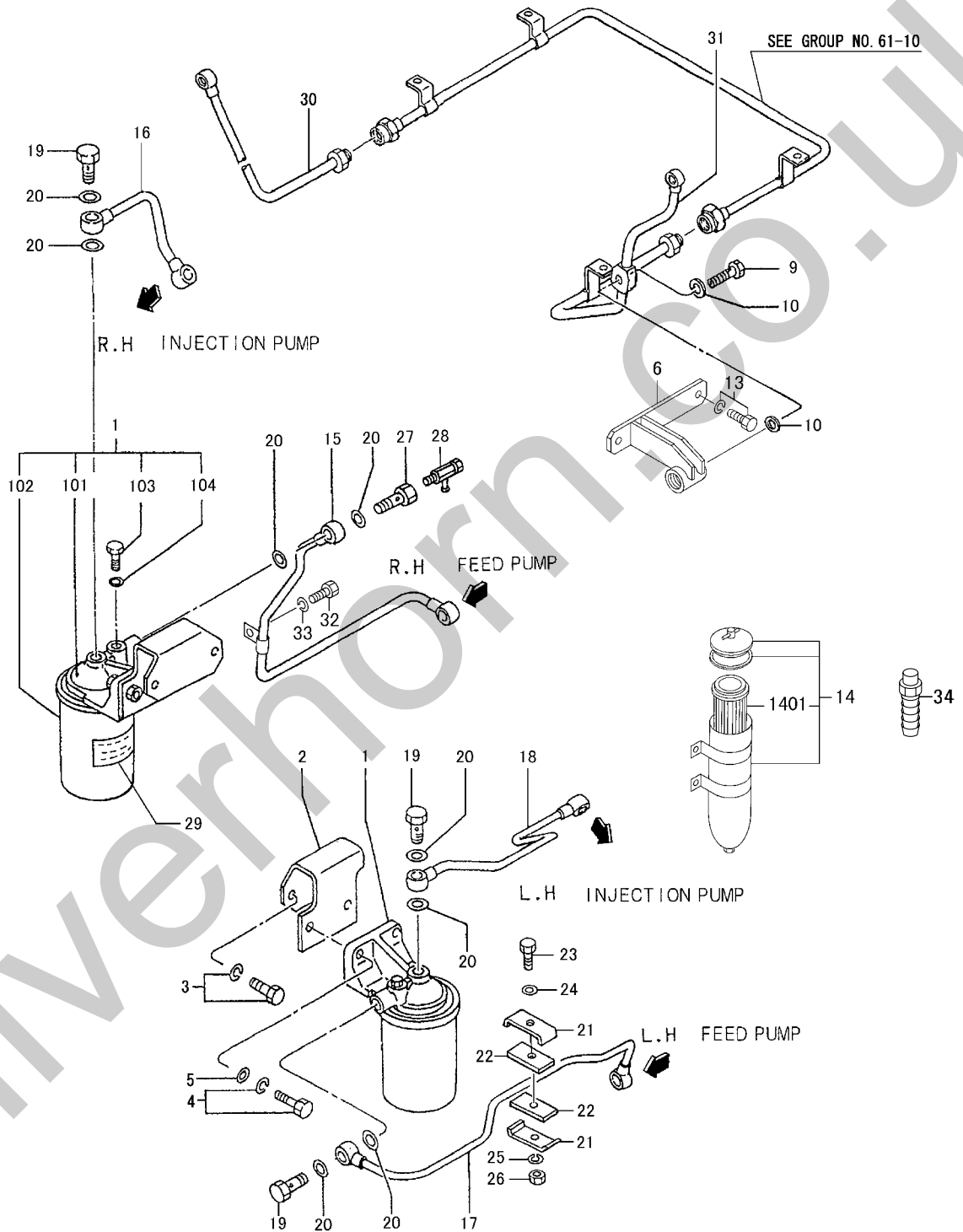
61-10 FUEL RETURN PIPING

97

REF. -NO.	PART NO.	R / P	SC EN G	PART NAME & DESCRIPTION	MODEL & QTY			APPLICABLE SERIAL NO.		V R D	M / R
					Y1TAA1			FROM@-	-@UPTO		
1	HF103510035			BOLT	6						A
2	HF180508020			BOLT,W/WASHER	4						A
3	HF200510035			BOLT,W/WASHER	4						A
4	HF230010000			NUT	6						A
5	HF250010000			WASHER,PLAIN	6						A
6	HF251510000			WASHER,SPRING	6						A
7	HF454006300			CONNECTOR	2						A
8	HF461014000			BOLT,EYE	2						A
9	H0594601001			WASHER,SEALING	8						A
10	H3253602901			BOLT,EYE	2						A
11	H3266109700			STAY	4						A
12	H3266144100			PIPE,FUEL	2						A
13	H3266167500			CONNECTOR	1						A
14	H3266178500			PIPE,FUEL LEAK L.H	1						A
15	H3266158600			PIPE,FUEL LEAK L.H	1						A
16	H3266178700			PIPE,FUEL LEAK R.H	1						A
17	HF115510020			BOLT	1						A
18	HF251510000			WASHER,SPRING	1						A
19	H3266168900			PIPE,FUEL LEAK	1						A
20	H3266208300			PIPE,FUEL FEED	1						A
21	H3266204500			PIPE,FUEL LEAK R.H	1						A
22	H3726101700			CLAMP	12						A
23	H3726101800			SEAT	12						A
24	H35A6204600			CLIP	3						A
27	HF180510020			BOLT,W/WASHER	1						A
28	HF115510035			BOLT	2						A
29	HF251510000			WASHER,SPRING	2						A

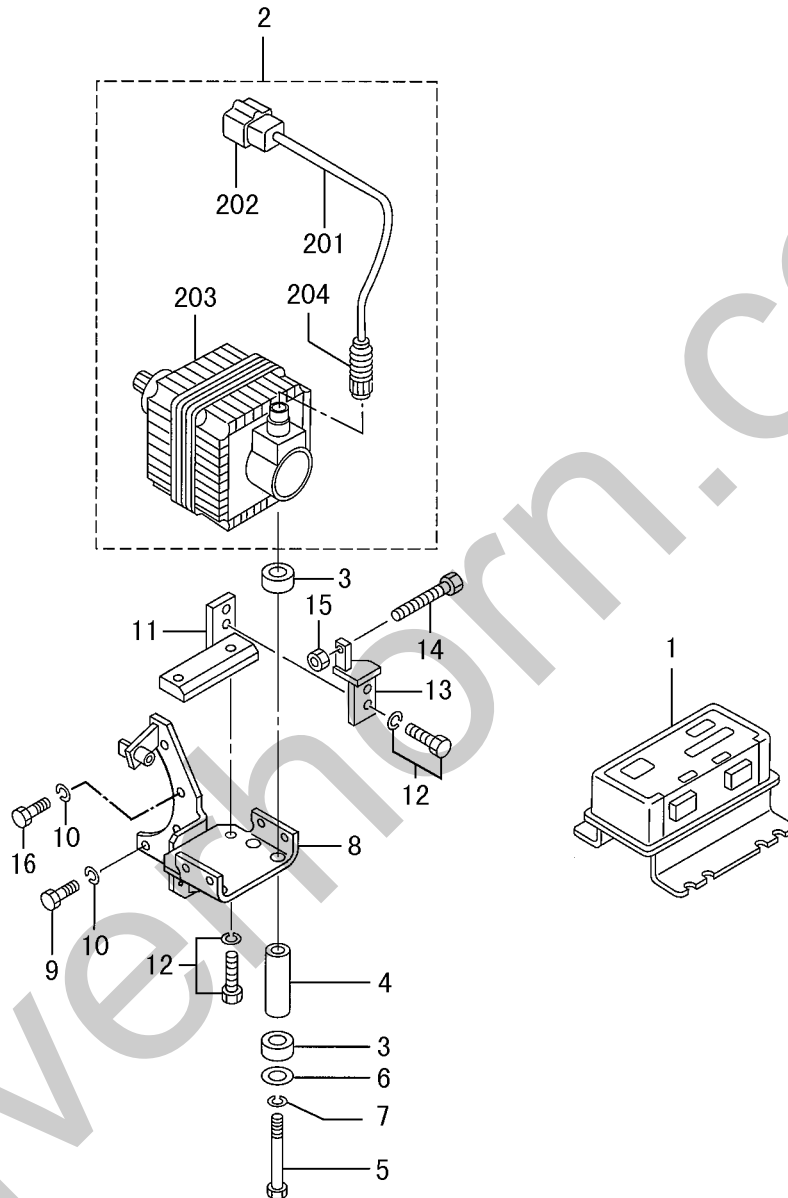
62 FUEL FILTER PIPING

98



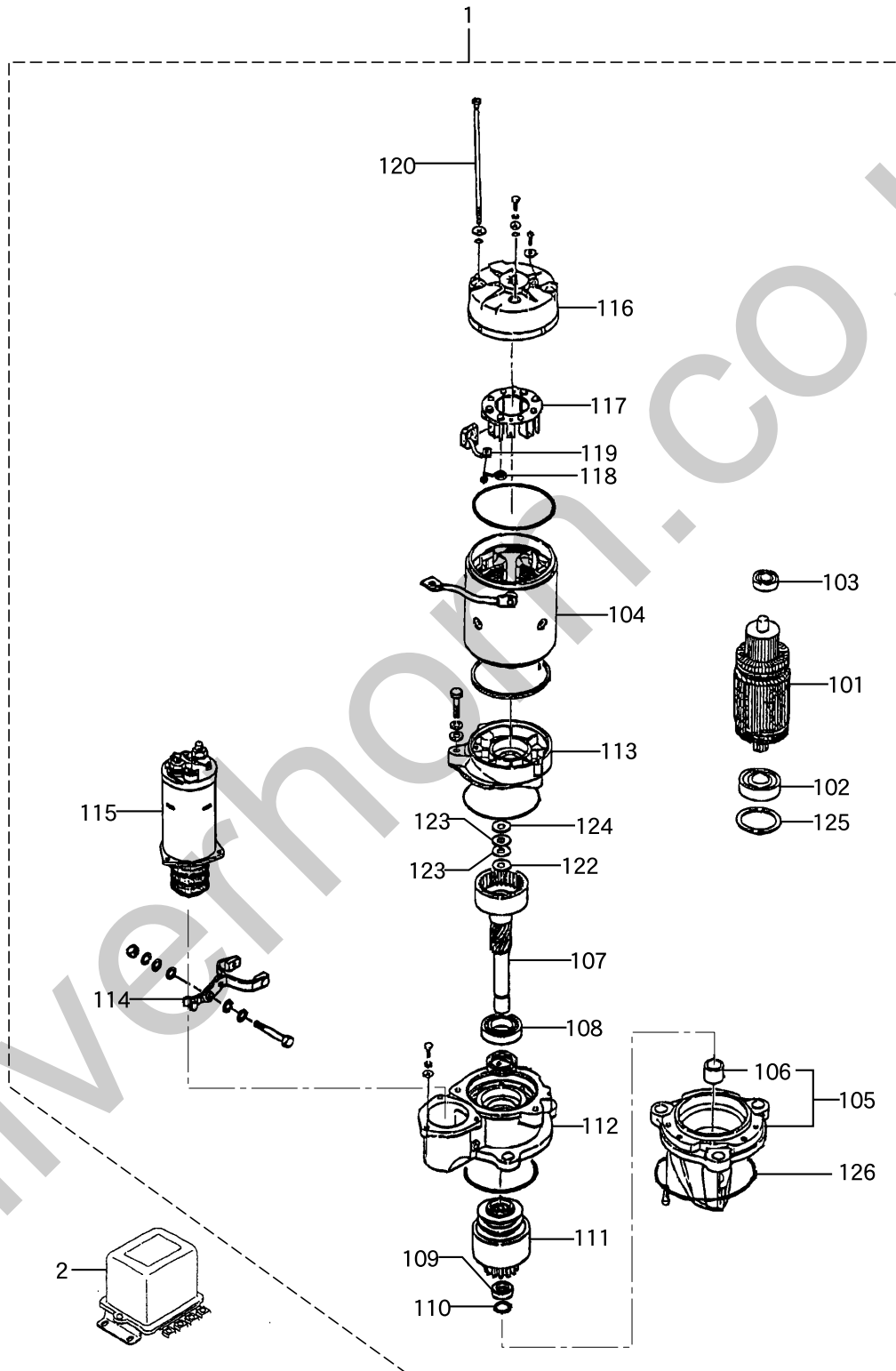
REF. -NO.	PART NO.	R / P	SC EN G	PART NAME & DESCRIPTION	MODEL & QTY			APPLICABLE SERIAL NO.		V R D	M / R
					Y1TAA1			FROM@-	-@UPTO		
1	H3256261010			FILTER ASSY,FUEL	2						
1:01	H3626207100			BRACKET ASSY	2						
1:02	H3256260300			ELEMENT,CARTRIDGE	2						
1:03	H3256200115			PLUG,AIR	2						
1:04	H0594600801			WASHER,SEALING	2						A
2	H3266208100			BRACKET,FUEL FILTER	2						
3	HF200510020			BOLT,W/WASHER	4						A
4	HF180510030			BOLT,W/WASHER	4						A
5	HF250010000			WASHER,PLAIN	4						A
6	H3266203300			CONNECTOR	1						
9	HF461014000			BOLT,EYE	1						A
10	H0594601401			WASHER,SEALING	2						A
13	HF200510030			BOLT,W/WASHER	2						A
14	H4730205502			SEPARATOR,FUEL	2						
14:01	H4730213500			ELEMENT	2						
15	H3266214100			PIPE,FUEL R.H	1						
16	H3266157200			PIPE,FUEL R.H	1						
17	H3266204200			PIPE,FUEL L.H	1						
18	H3266157400			PIPE,FUEL L.H	1						
19	HF461014000			BOLT,EYE	3						A
20	H0594601401			WASHER,SEALING	8						A
21	H3726101700			CLAMP	2						A
22	H3726101800			SEAT	2						
23	HF103510035			BOLT	1						A
24	HF250010000			WASHER,PLAIN	1						A
25	HF251510000			WASHER,SPRING	1						A
26	HF232010000			NUT,JAM	1						A
27	H3716104900			BOLT,EYE	1						
28	H3126251901			COCK,AIR VENT	1						
29	H3256200800			LABEL,CAUTION	1						
30	H3266204300			PIPE,FEED R.H	1						
31	H3266214400			PIPE,FEED L.H	1						
32	HF103510016			BOLT	1						A
33	HF251510000			WASHER,SPRING	1						A
34	H4730209300	A		NIPPLE	2			22738-			

100



REF. -NO.	PART NO.	R / P	SC EN Q	PART NAME & DESCRIPTION	MODEL & QTY			APPLICABLE SERIAL NO.		V R D	M / R
					Y1TAA1			FROM@-	-@UPTO		
1	*			C CONTROLLER,DMM	1						
	H3266322100	11		C CONTROLLER,DMM	1						V
2	H3786320210			C ACTUATOR,PROACT	1				-22754		
	H3786330210	31		C ACTUATOR,PROACT	1						V
2:01	H3759200400			TUBE,COLGATE	1						
2:02	H3759200900			C CONNECTOR	1				-22754		
	H3759210900	31		C CONNECTOR	1						V
2:03	H3786300200			C ACTUATOR,PROACT	1						
2:04	H3786301100			C CAP,PROACT	1				-22754		
	H3786311100	31		C CAP,PROACT	1						V
3	H35A6302400			MOUNT	8						
4	H34A6304500			SPACER	4						
5	H35A6308600			BOLT	4						A
6	H9126207700			WASHER	4						A
7	HF251508000			WASHER,SPRING	4						A
8	H3266322700			C BRACKET,PROACT	1				-22675		
	H3266332700	31		C BRACKET,PROACT	1						V
9	HF115512055			BOLT	3						A
10	HF251512000			WASHER,SPRING	4						A
11	H3266301900			BRACKET,STOPPER	1						
12	HF180510025			BOLT,W/WASHER	4						A
13	H3266301800			BRACKET,STOPPER	1						
14	H4108703100			BOLT	1						A
15	HF230008000			NUT	1						A
16	H3266305900			BOLT,REAMER	1						

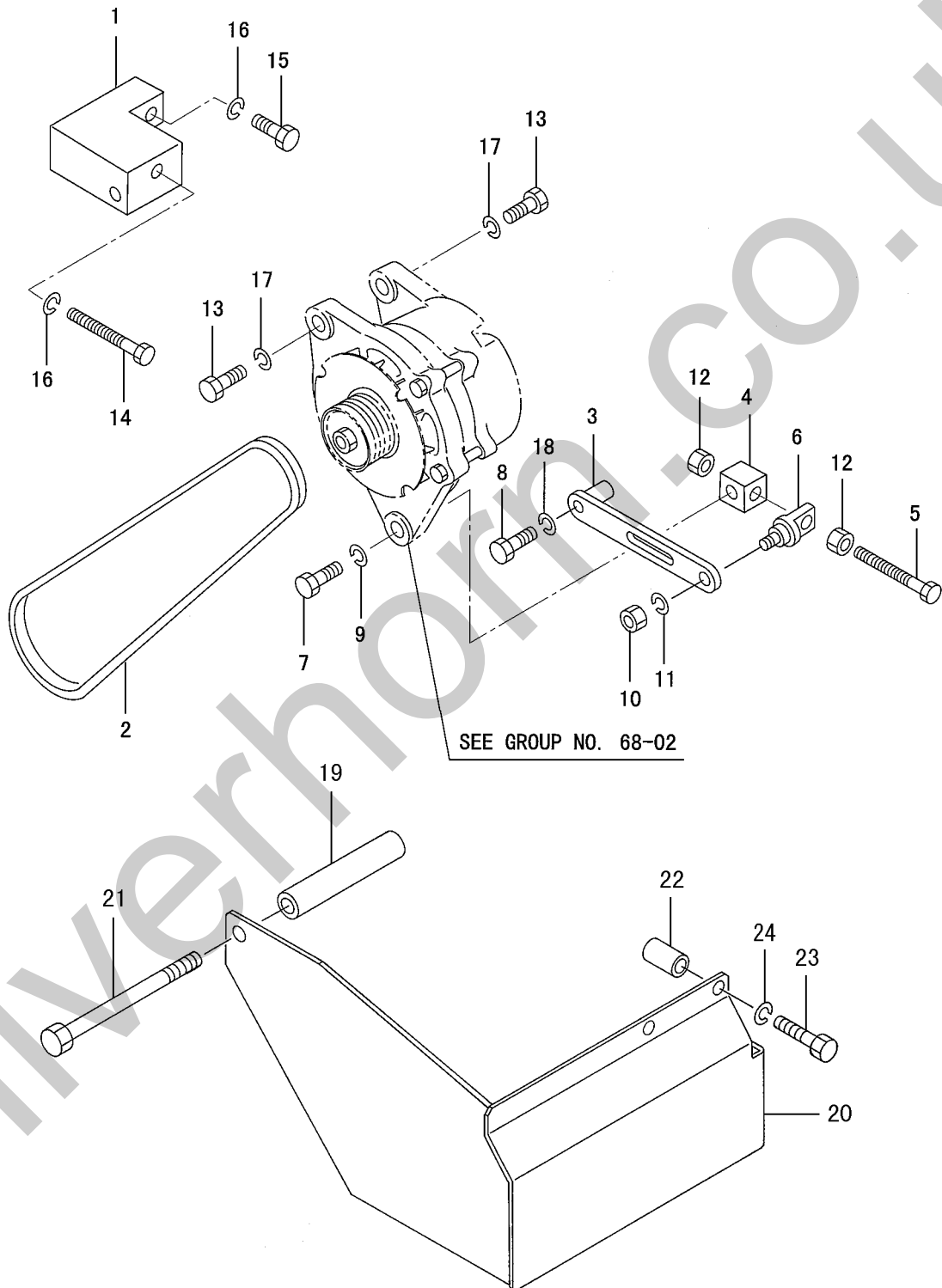
102



REF. -NO.	PART NO.	R / P	SC EN G	PART NAME & DESCRIPTION	MODEL & QTY			APPLICABLE SERIAL NO.		V R D	M / R
					Y1TAA1						
								FROM@-	-@UPTO		
1	H3266601200			STARTER,11KW	NKC	2					
1.01	H0231000261			ARMATURE		2					
1.02	H1045662057			BEARING,BALL		2					A
1.03	H1045662007			BEARING,BALL		2					A
1.04	H0232000600			YOKE ASSY		2					
1.05	H0233101710			BRACKET,FRONT		2					
1.06	H7233510080			METAL		2					
1.07	H1231110161			SHAFT		2					
1.08	H0092010850			BEARING,BALL		2					A
1.09	H1231810020			STOPPER,PINION		2					
1.10	H1239140020			RING,CLIP		2					
1.11	H0235000890			CLUTCH ASSY		2					
1.12	H0236000440			BRACKET ASSY		2					
1.13	H0236110720			BRACKET,CENTER		2					
1.14	H1233200190			LEVER,SHIFT		2					
1.15	H0471004370			SWITCH ASSY		2					
1.16	H0237110500			BRACKET,REAR		2					
1.17	H0237500340			HOLDER,BRUSH		2					
1.18	H1239130040			SPRING,BRUSH		8					A
1.19	H0237400351			BRUSH		8					A
1.20	H0090014460			BOLT		4					A
1.22	H1239210130			WASHER		2					A
1.23	H1239210140			WASHER		4					A
1.24	H1239410040			WASHER,INSULATE		2					A
1.25	H0090570110			WASHER		2					A
1.26	H0550720950			O-RING		2					A
2	H0432240010			RELAY,SAFETY		1					

68-01 ALTERNATOR GENERAL

104



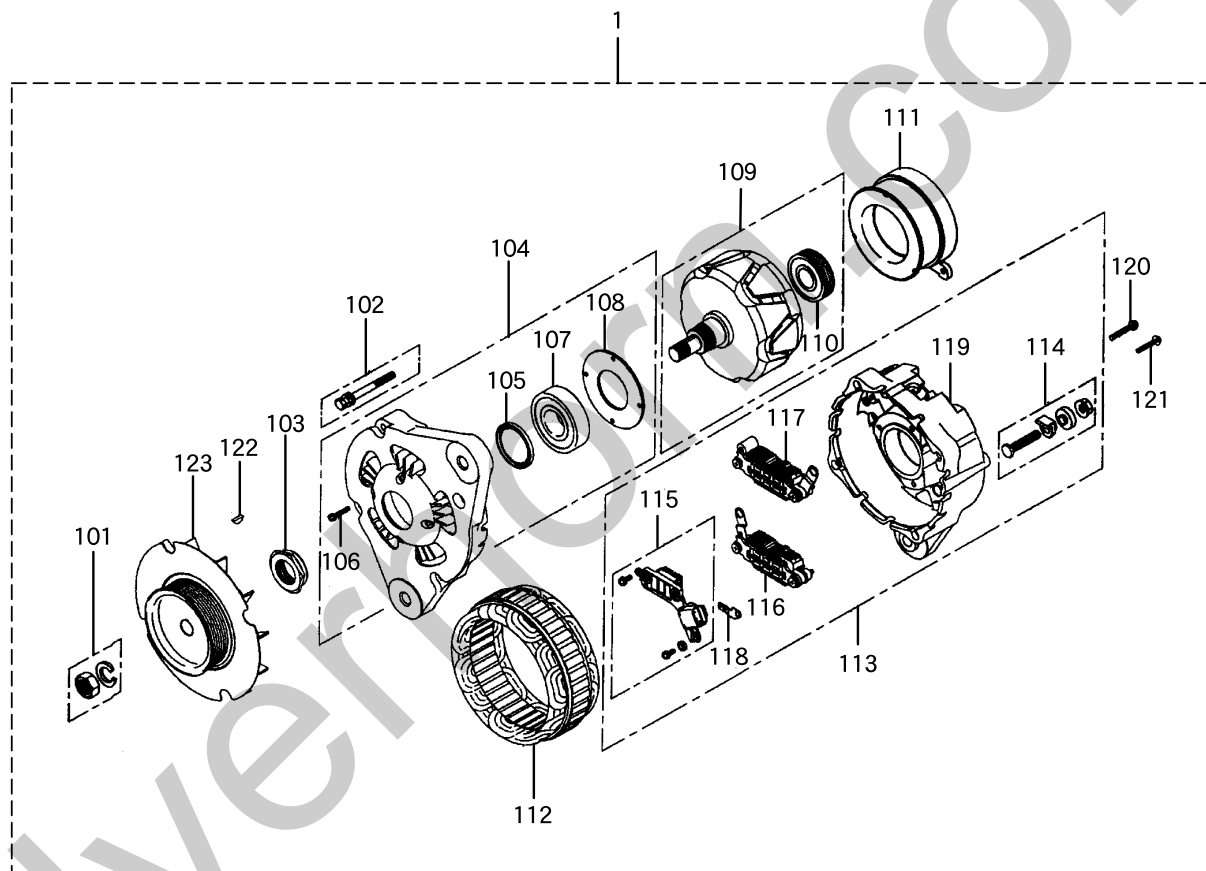
68-01 ALTERNATOR GENERAL

105

REF. -NO.	PART NO.	R / P	SC EN G	PART NAME & DESCRIPTION	MODEL & QTY			APPLICABLE SERIAL NO.		V R D	M / R
					Y1TAA1			FROM@-	-@UPTO		
1	H3266802600			BRACKET	1						
2	H3266805100			V-BELT,ALTERNATOR	1						
3	H3266803200		C	PLATE,ADJUSTING	1				-22675		
	H3266813200	31		PLATE,ADJUSTING	1						
4	H3266803300			BOSS,ALTERNATOR	1						
5	H35A4805100			BOLT,TENSION	1						
6	H3756807400			BOSS	1						
7	HF103514050			BOLT	1						
8	HF103512075		C	BOLT	1				-22675		
	HF103514075	N1		BOLT	1			22676-			
9	HF251514000			WASHER,SPRING	1						
10	HF230016000			NUT,LOCK	1						
11	HF251516000			WASHER,SPRING	1						
12	HF232014000			NUT,JAM	2						
13	HF103514050			BOLT	2						
14	H0597910135			BOLT	1						
15	HF115510065			BOLT	1						
16	HF251510000			WASHER,SPRING	2						
17	HF251514000			WASHER,SPRING	2						
18	HF251512000		C	WASHER,SPRING	1				-22675		
	HF251514000	N1		WASHER,SPRING	1			22676-			
19	H3266806200			SPACER	1						
20	H3266816100			COVER	1						
21	H0597912160			BOLT	1						
22	H3262501800			SPACER	2						
23	HF103510055			BOLT	2						
24	HF251510000			WASHER,SPRING	2						

68-02 ALTERNATOR(24V-150A)

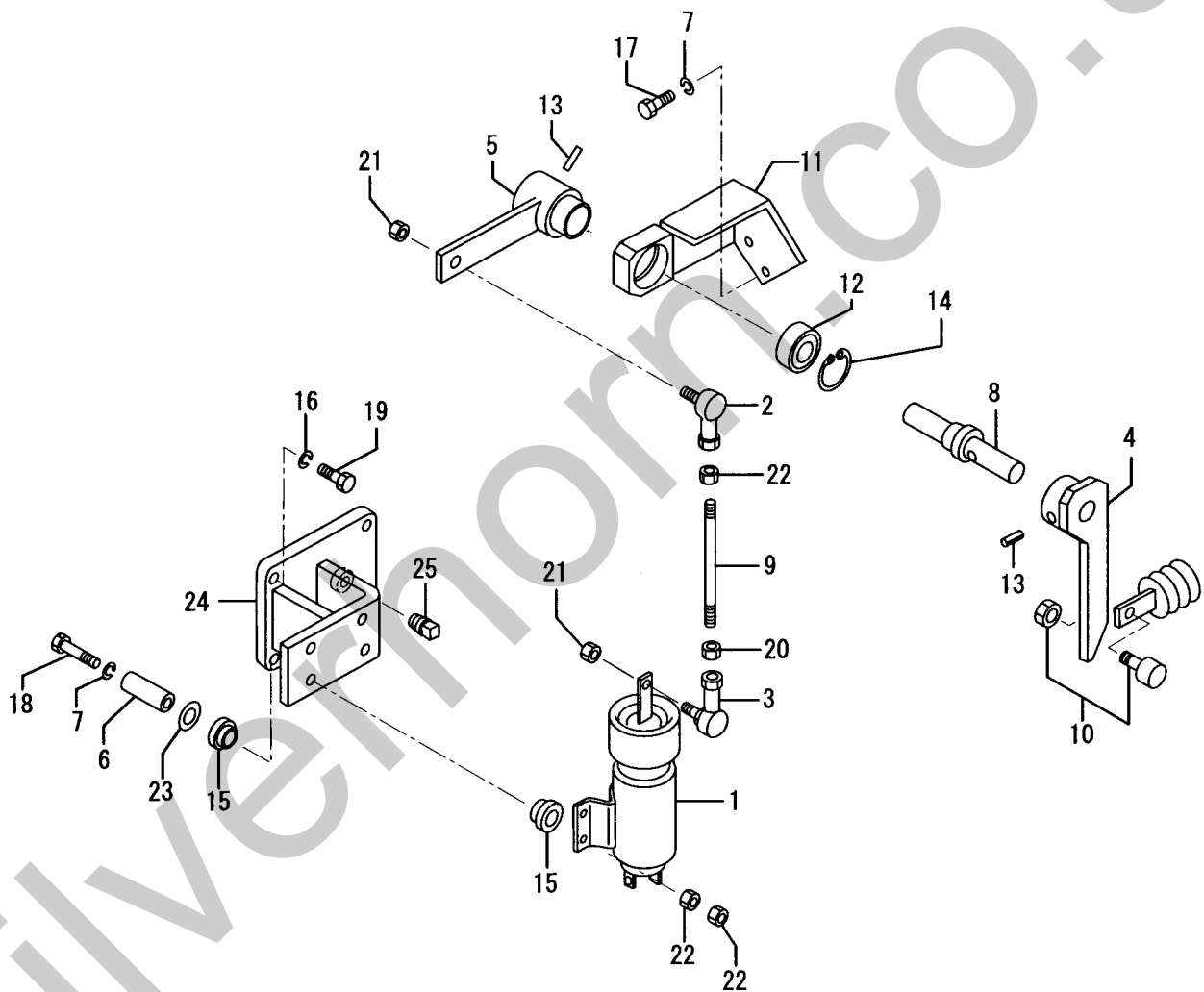
106



68-02 ALTERNATOR(24V-150A)

107

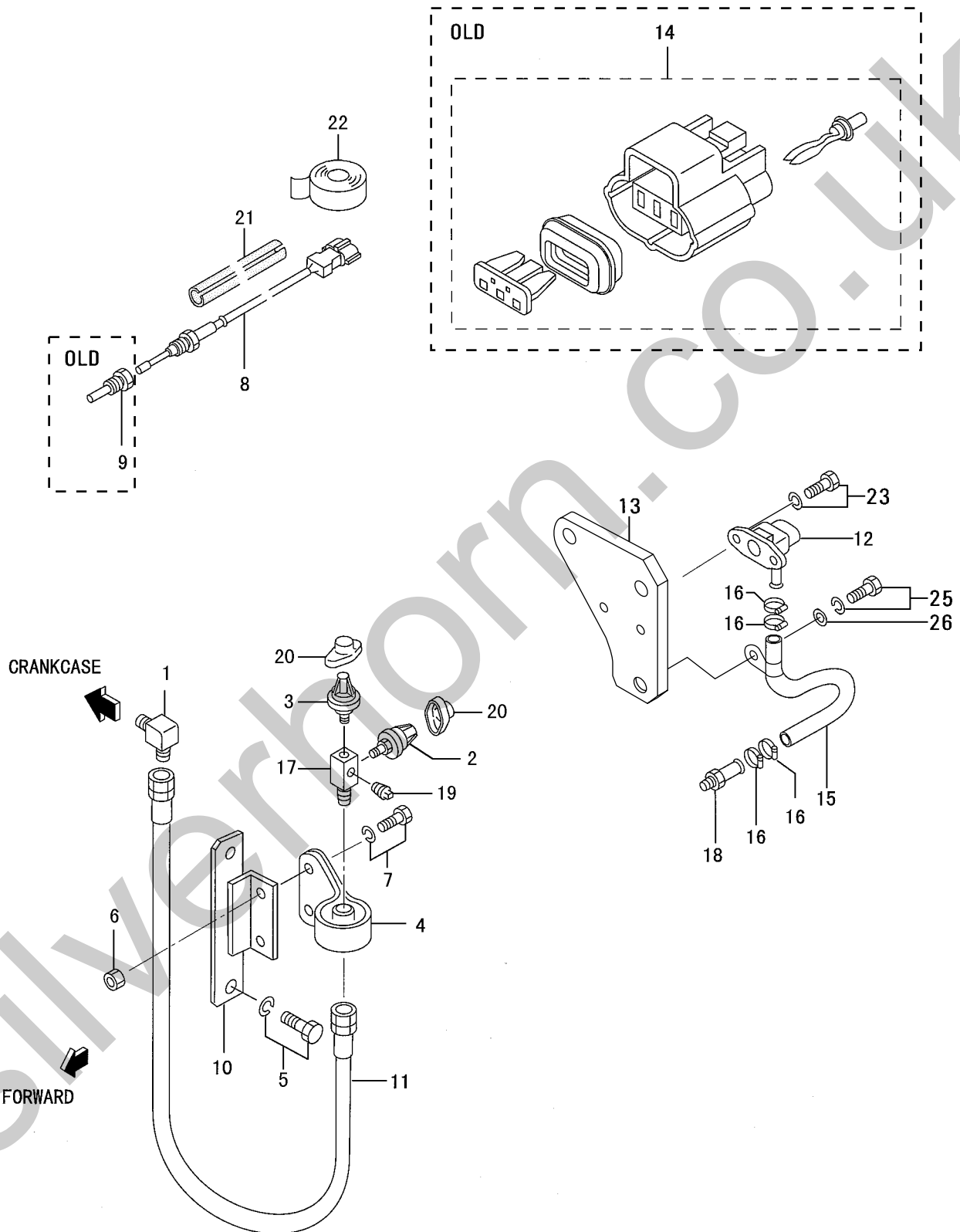
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[illegible]

90-01 INSTRUMENT(PART-1)

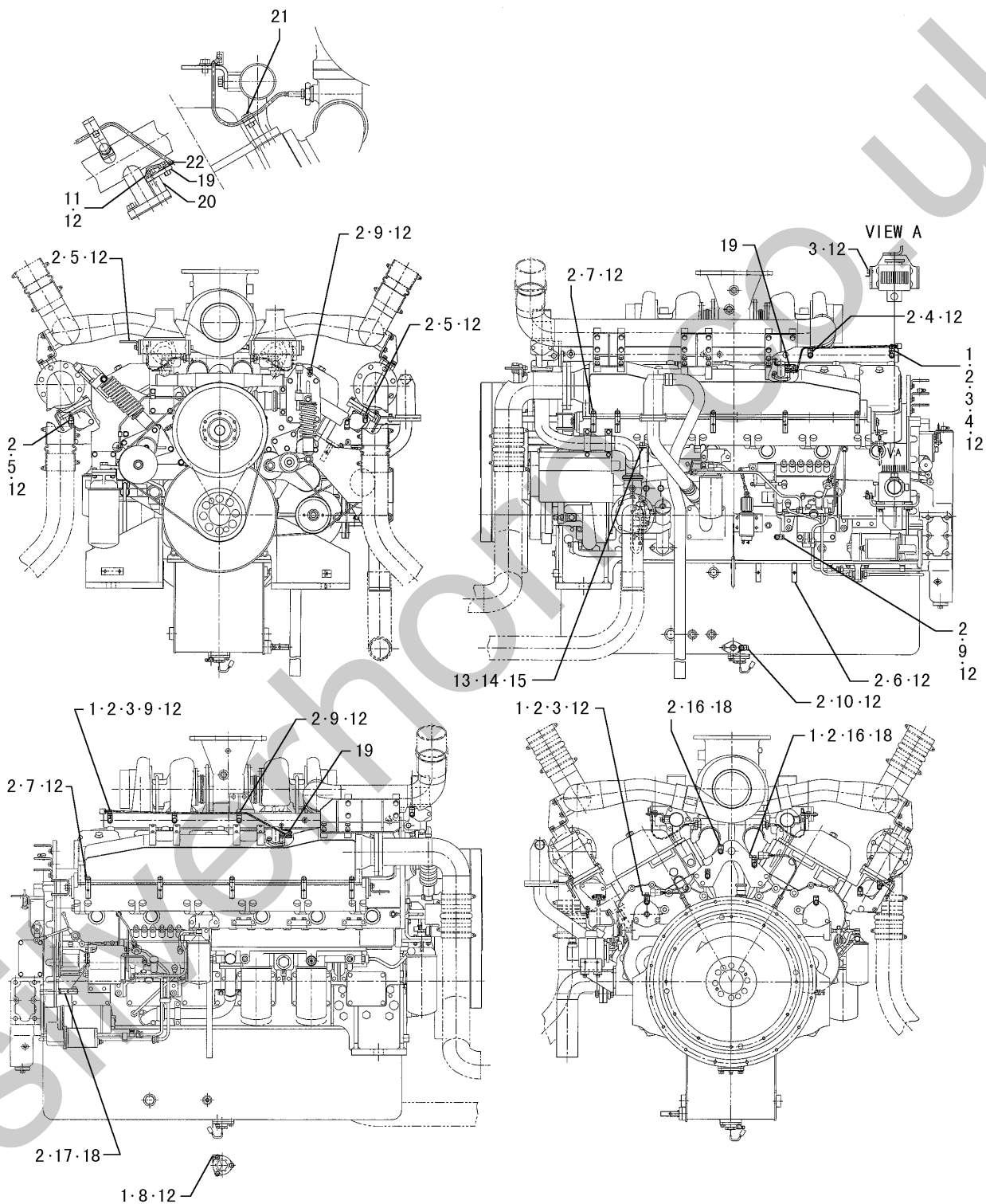
110



90-01 INSTRUMENT(PART-1)

111

REF. -NO.	PART NO.	R / P	SC EN G	PART NAME & DESCRIPTION		MODEL & QTY			APPLICABLE SERIAL NO.		V R D	M / R
						Y1TAA1			FROM@-	-@UPTO		
1	HF456006300			ELBOW		1						
2	H0444245400			SWITCH,PRESSURE	0.15MPa	1						
3	H0444245700			SWITCH,PRESSURE	0.3MPa	1						
4	H3123655100			MOUNT,OIL PRESS UNIT		1						
5	HF200510030			BOLT,W/WASHER	B/W	2						A
6	HF230010000			NUT		2						A
7	HF180510025			BOLT,W/WASHER	B/W	2						A
8	H3789201100			SENSOR,EXHAUST		2						
9	H3789201200		D	CONNECTOR		2				-22936		
10	H4568951800			BRACKET		1						
11	H4595104035			PIPE,FLEXIBLE		1						
12	HMC885208			SENSOR,BOOST		1						
13	H3789200100		C	PLATE,BOOST SENSOR		1				-22936		
	H3789210500		G1	PLATE,BOOST SENSOR		1			22937-			V
14	H3759210100		D	CONNECTOR		1				-22936		
15	HF401006100		C	HOSE,RUBBER		1						A
	H3269010400		31	HOSE,RUBBER		1						V
16	H0531750161			CLAMP		4						A
17	H3269003100			CONNECTOR		1						A
18	H4730206300			NIPPLE		1						A
19	HF500610000			PLUG,TAPERED		1						A
20	H0439000800			BOOT,RUBBER		2						
21	H3789201300			TUBE,CORGATE		2						
22	H3789201400			TAPE,VINYL		1						
23	HF180506014		A	BOLT,W/WASHER	B/W	2			22937-			AV
24	H0531741200		A	CLIP		1			22937-			V
25	HF180510016		A	BOLT,W/WASHER	B/W	1			22937-			AV
26	HF250010000		A	WASHER,PLAIN		1			22937-			AV

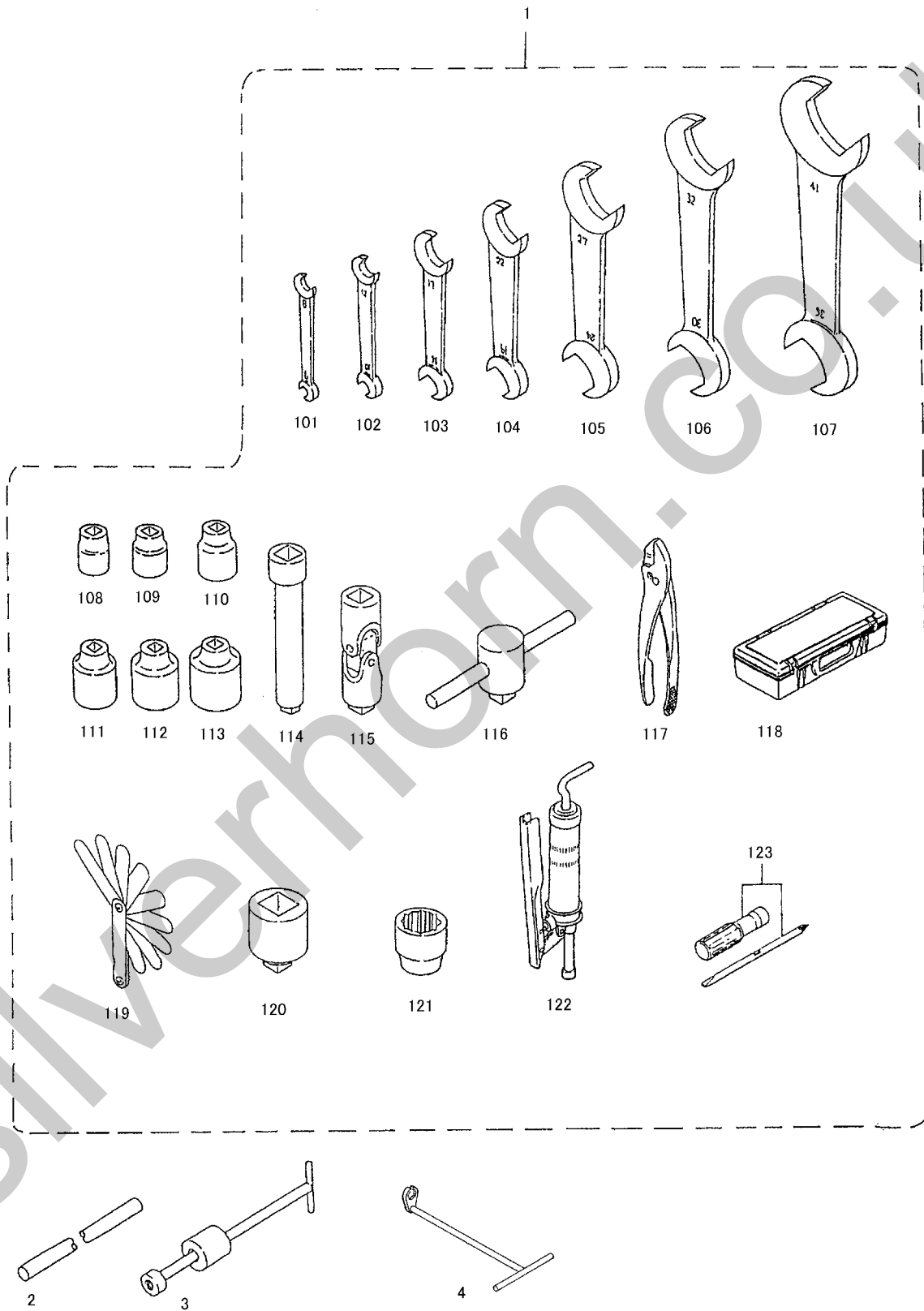


90-02 INSTRUMENT(PART-2)

113

[illegible]

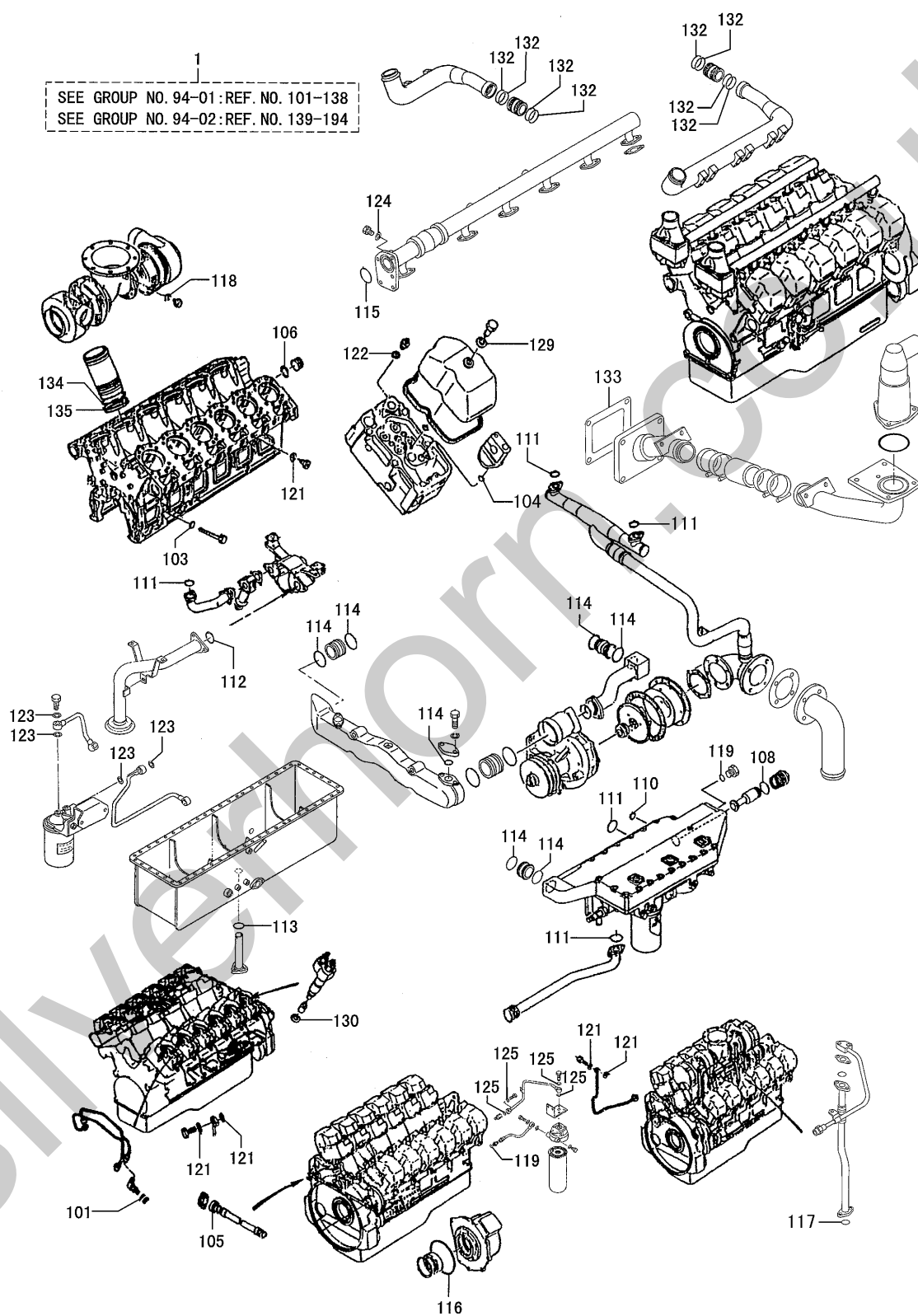
114



REF. -NO.	PART NO.	R / P	SC ENG	PART NAME & DESCRIPTION		MODEL & QTY			APPLICABLE SERIAL NO.		V / D R
						Y1TAA1					
									FROM@-	-@UPTO	
1	H3259100012			TOOL ASSY		1					
1:01	HF960007008			SPANNER,OPEN-END	7X8	1					
1:02	HF960010012			SPANNER,OPEN-END	10X12	1					
1:03	HF960014017			SPANNER,OPEN-END	14X17	1					
1:04	HF960019022			SPANNER,OPEN-END	19X22	1					
1:05	HF960024027			SPANNER,OPEN-END	24X27	1					
1:06	HF960030032			SPANNER,OPEN-END	30X32	1					
1:07	HF960036041			SPANNER,OPEN-END	36X41	1					
1:08	HF961417000			SOCKET	FOR 12MM BOLT	1					
1:09	HF961422000			SOCKET	FOR 14MM BOLT	1					
1:10	HF961424000			SOCKET	FOR 16MM BOLT	1					
1:11	HF961427000			SOCKET	FOR 18MM BOLT	1					
1:12	HF961430000			SOCKET	FOR 20MM BOLT	1					
1:13	HF961432000			SOCKET	FOR 22MM BOLT	1					
1:14	HF961525000			BAR		1					
1:15	HF961710000			JOINT,UNIVERSAL		1					
1:16	HF961830000			HANDLE,SLIDE		1					
1:17	HF963015000			PLIERS,CUTTING	SLOTTED	1					
1:18	HMC420083			BOX,TOOL	CROSS-RECESSED	1					
1:19	H3009106501			GAGE,THICKNESS		1					
1:20	H3349103600			ADAPTER		1					
1:21	H3349113500			SOCKET		1					
1:22	H6430915300			PUMP,GREASE		1					
1:23	H9126700201			DRIVER,SCREW		1					
2	H3719103100			BAR,TURNING		1					
3	H3629100900			REMOVER		1					
4	H3269101200			WRENCH		1					

94-01 OVERHAUL GASKET KIT(PART-1)

116



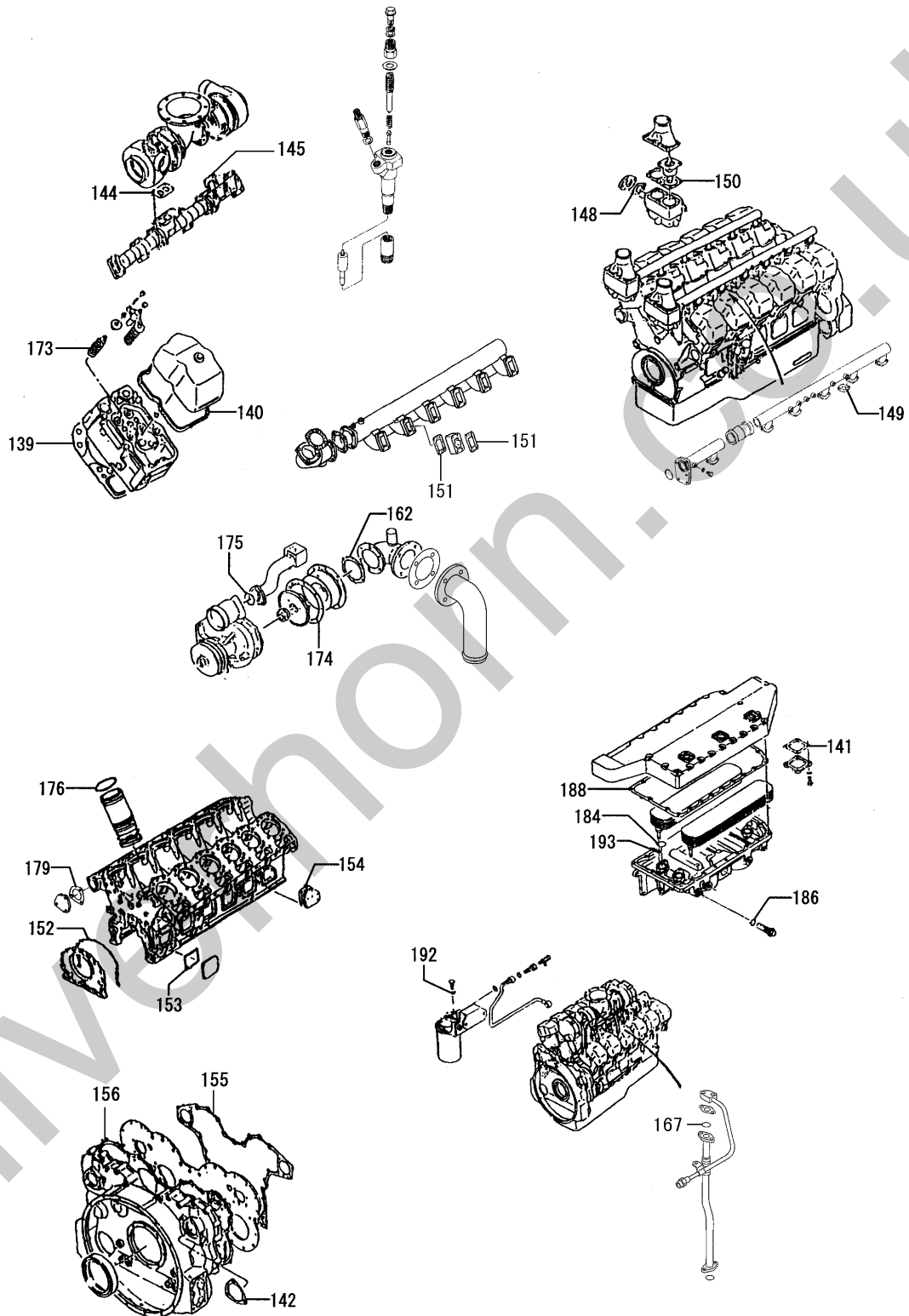
94-01 OVERHAUL GASKET KIT(PART-1)

117

REF. -NO.	PART NO.	R / P	SC EN G	PART NAME & DESCRIPTION	MODEL & QTY			APPLICABLE SERIAL NO.		V R D	M / R
					Y1TAA1			FROM@-	-@UPTO		
1	H3269430200	31C R2	C	GASKET KIT,OVERHAUL	EO-00	1					A
	H3269430201		C	GASKET KIT,OVERHAUL	EO-01	1					AV
	H3269430202		C	GASKET KIT,OVERHAUL	EO-02	1					AV
10:1	H0550710120			O-RING		12					A
10:2	H0550710160			O-RING	NOT SHOWN	2					A
10:3	H0550710180			O-RING		14					A
10:4	H0550710200			O-RING		12					A
10:5	H0550710220			O-RING		2					A
10:6	H0550710340			O-RING		3					A
10:7	H0550720400			O-RING		1					A
10:8	H0550710420			O-RING		1					A
10:9	HF315005000			O-RING	NOT SHOWN	1					A
11:0	H0550720250			O-RING		1					A
11:1	H0550720450			O-RING		15					A
11:2	H0550720500			O-RING		1					A
11:3	H0550720550			O-RING		2					A
11:4	HF315306000			O-RING		7					A
11:5	HF315307500			O-RING		2					A
11:6	H0550721500			O-RING		2					A
11:7	H0550720400			O-RING		2					A
11:8	HF420227000			GASKET		1					A
11:9	HMH035093			O-RING		4					A
12:0	H0482620090			PACKING NOT SHOWN	EO-00	1					A
	H0482628090			PACKING NOT SHOWN	EO-01,EO-02	1					AV
12:1	H0594601001			WASHER,SEALING		48					A
12:2	H0594601201			WASHER,SEALING		16					A
12:3	H0594601401			WASHER,SEALING		10					A
12:4	H0594601601			WASHER,SEALING		2					A
12:5	H0594601801			WASHER,SEALING		4					A
12:6	H0594602001			WASHER,SELAING	NOT SHOWN	4					A
12:7	H0594602701			WASHER,SEALING	NOT SHOWN	2					A
12:8	H0594603301			WASHER,SEALING	NOT SHOWN	1					A
12:9	H3000416401			GASKET		12					A
13:0	H3096116400			GASKET		12					A
13:1	H3062550501			GASKET NOT SHOWN	EO-00,EO-01	1					A
	H3062550502			GASKET NOT SHOWN	EO-02	1					AV
13:2	H35A3000100			O-RING		8					A
13:3	H3230737500			PACKING		10					A
13:4	H3250702700			O-RING,LINER		12					A
13:5	H3250702600			O-RING,LINER		24					A
13:6	H3233604501			PACKING	NOT SHOWN	2					A
13:7	H3233900501			PACKING	NOT SHOWN	2					A
13:8	H3234612400			PACKING NOT SHOWN	EO-00	1					A
	H3234622400			PACKING NOT SHOWN	EO-01,EO-02	1					AV

94-02 OVERHAUL GASKET KIT(PART-2)

118



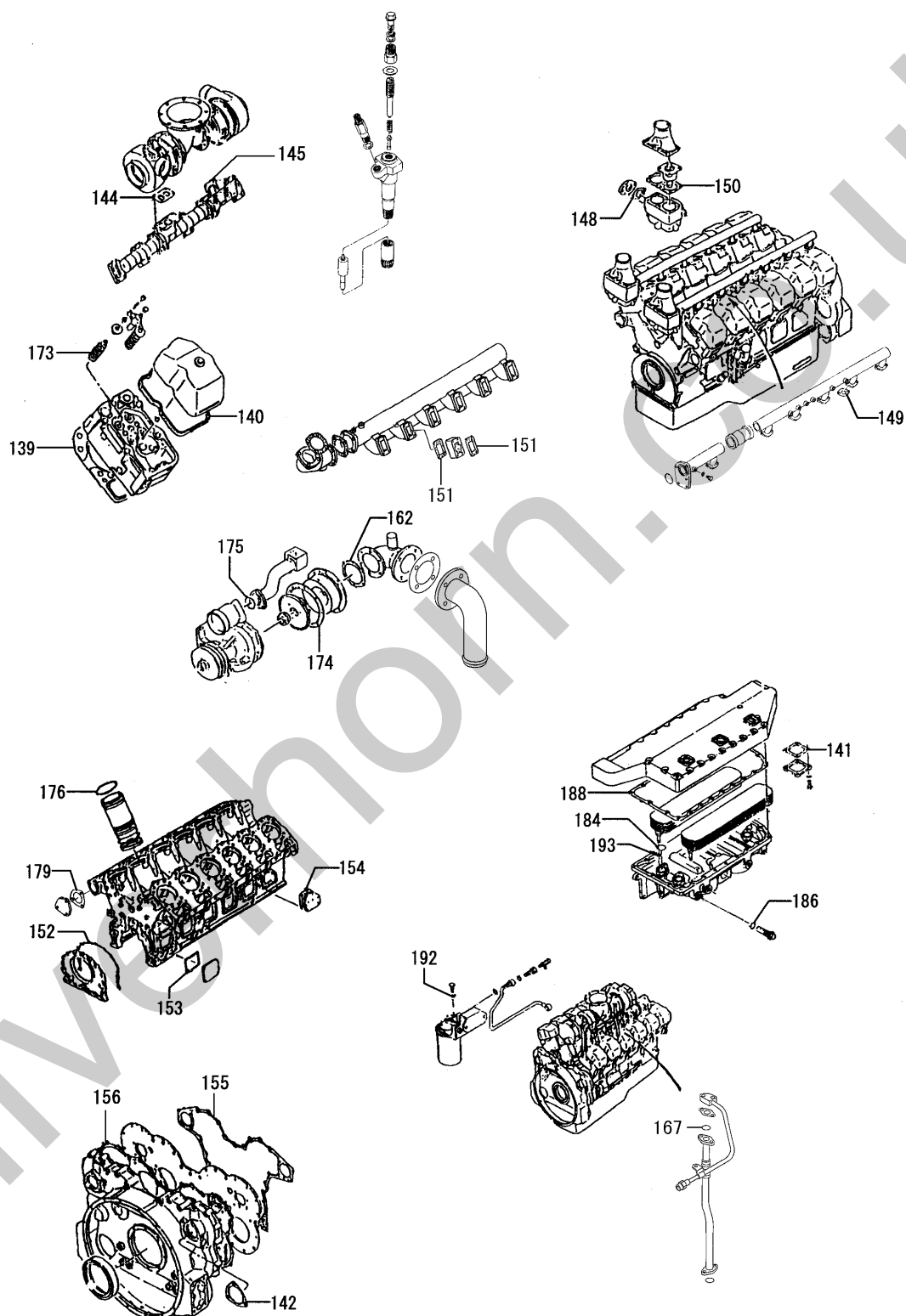
94-02 OVERHAUL GASKET KIT (PART-2)

119

REF. -NO.	PART NO.	R / P	SC EN G	PART NAME & DESCRIPTION	MODEL & QTY			APPLICABLE SERIAL NO.		V M / R D
					Y1TAA1			FROM@-	-@UPTO	
10:1	H3250182800			GASKET,CYLINDER HEAD	12					A
10:2	H3250426500			PACKING,ROCKER COVER	12					A
10:3	H3250705900			PACKING EO-00	1					A
	H3250715900			PACKING EO-01,EO-02	1					AV
10:4	H3252513200			PACKING EO-00	2					A
	H3252543200			PACKING EO-01,EO-02	2					AV
10:5	H3253000301			PACKING EO-00	24					A
	H3253010300			PACKING EO-01,EO-02	24					AV
10:6	H35A3230100			GASKET,EXH MANIFOLD	12					A
10:7	H35A3200500			GASKET,EXH MANIFOLD	12					A
10:8	H3253601400			PACKING NOT SHOWN EO-00	2					A
	H3253611400			PACKING NOT SHOWN EO-01,EO-02	2					AV
10:9	H3254636800			PACKING NOT SHOWN EO-00	6					A
	H35B3602900			PACKING NOT SHOWN EO-01,EO-02	6					AV
11:0	H3254610300			PACKING EO-00	2					A
	H3254620300			PACKING EO-01,EO-02	2					AV
11:1	H3254630600			PACKING	12					A
11:2	H3254615400			GASKET EO-00	2					A
	H3254625400			GASKET EO-01,EO-02	2					AV
11:3	H3256119200			GASKET	12					A
11:4	H3260715200			PACKING EO-00	1					A
	H3260725200			PACKING EO-01,EO-02	1					AV
11:5	H3260737500			PACKING EO-00	1					A
	H3260747500			PACKING EO-01,EO-02	1					AV
11:6	H3260787600			PACKING	2					A
11:7	H3261111200			PACKING EO-00	1					A
	H3261121200			PACKING EO-01,EO-02	1					AV
11:8	H3261111400			PACKING EO-00	1					A
	H3261121400			PACKING EO-01,EO-02	1					AV
11:9	H3261310200			PACKING EO-00	1					A
	H3261340200			PACKING EO-01,EO-02	1					AV
12:0	H3262505400			PACKING NOT SHOWN EO-00	1					A
	H3262515400			PACKING NOT SHOWN EO-01,EO-02	1					AV
12:1	H3262505800			PACKING NOT SHOWN EO-00	1					A
	H3262515800			PACKING NOT SHOWN EO-01,EO-02	1					AV
12:2	H3263016300			PACKING NOT SHOWN EO-00	2					A
	H3263026300			PACKING NOT SHOWN EO-01,EO-02	2					AV
12:3	H3264005300			PACKING NOT SHOWN EO-00	1					A
	H3264015300			PACKING NOT SHOWN EO-01,EO-02	1					AV
12:4	H3264607800			PACKING EO-00	1					A
	H3264617800			PACKING EO-01,EO-02	1					AV
12:5	H3303600600			PACKING NOT SHOWN EO-00	2					A
	H3303620600			PACKING NOT SHOWN EO-01,EO-02	2					AV
12:6	H3333608501			PACKING NOT SHOWN EO-00	1					A
	H3333618500			PACKING NOT SHOWN EO-01,EO-02	1					AV
12:7	H3341111200			PACKING NOT SHOWN EO-00	1					A
	H3341121200			PACKING NOT SHOWN EO-01,EO-02	1					AV
12:8	H3344210200			PACKING EO-00	1					A
	H3344220200			PACKING EO-01,EO-02	1					AV

94-02 OVERHAUL GASKET KIT (PART-2)

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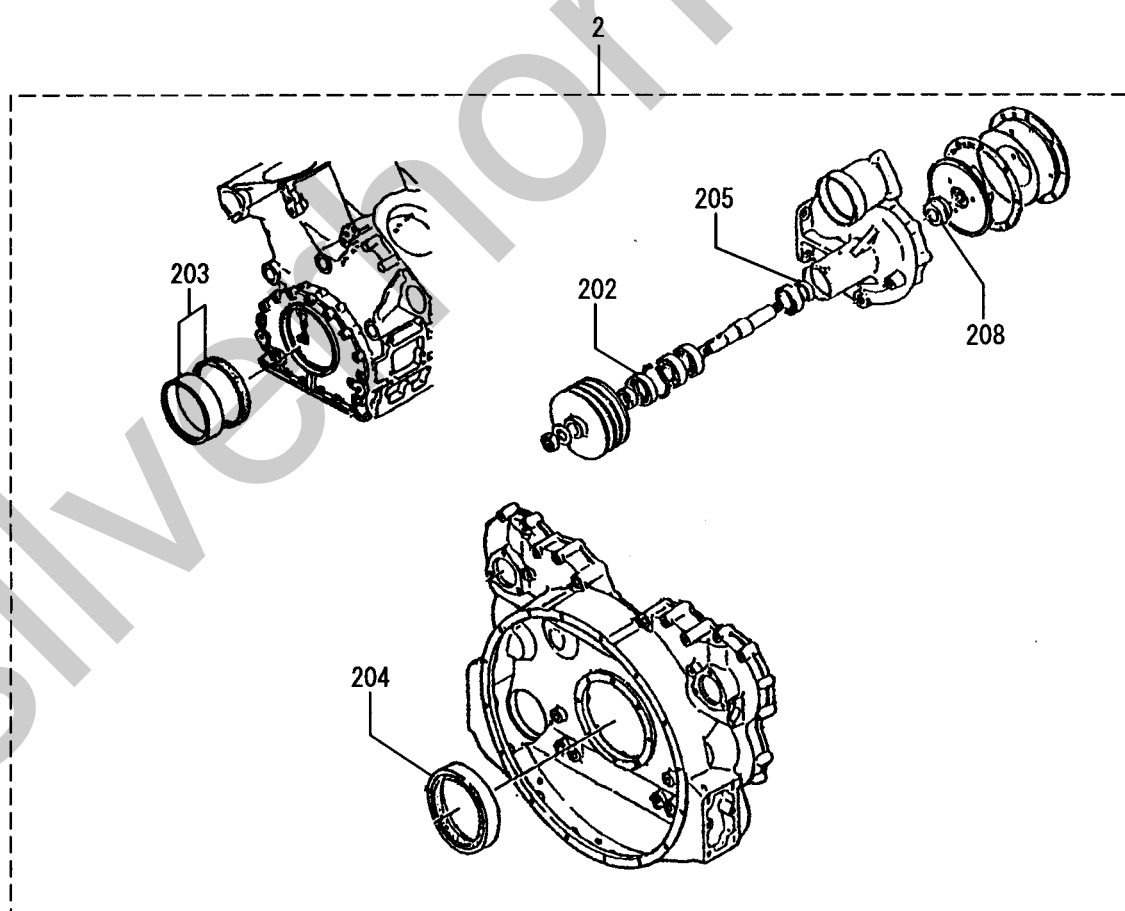
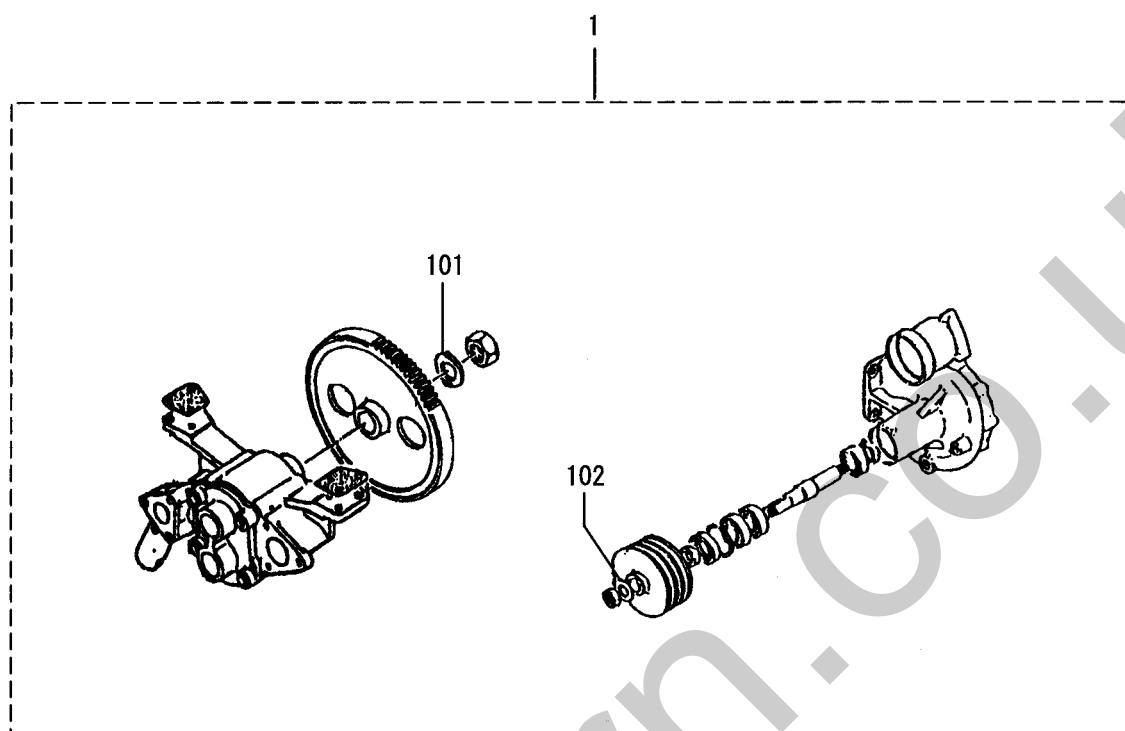
94-02 OVERHAUL GASKET KIT (PART-2)

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REF. -NO.	PART NO.	R / P	SC EN Q	PART NAME & DESCRIPTION	MODEL & QTY			APPLICABLE SERIAL NO.		V R D	M / R
					Y1TAA1			FROM@-	-@UPTO		
129	H3623600700			PACKING	EO-00	2					A
	H3623610700			PACKING	EO-01,EO-02	2					AV
130	H3623600800			PACKING NOT SHOWN	EO-00	3					A
	H3623610800			PACKING NOT SHOWN	EO-01,EO-02	3					AV
131	H3624005700			PACKING	NOT SHOWN	1					A
132	H3711300900			PACKING NOT SHOWN	EO-00	1					A
	H3711310900			PACKING NOT SHOWN	EO-01,EO-02	1					AV
133	H3721300700			PACKING NOT SHOWN	EO-00	2					A
	H3721310700			PACKING NOT SHOWN	EO-01,EO-02	2					AV
134	H3746321900			PACKING	NOT SHOWN	1					A
135	H3350410300			SEAL,VALVE STEM		48					A
136	H3264501300			PACKING	EO-00,EO-01	1					A
	H3264511300			PACKING	EO-02	1					AV
137	HF315307000			O-RING		1					A
138	H3250702800			O-RING,LINER		12					A
139	H3253002700			GASKET	EO-00	4					A
	H3253012700			GASKET	EO-01,EO-02	4					AV
140	H3253004800			GASKET NOT SHOWN	EO-00	4					A
	H3253014800			GASKET NOT SHOWN	EO-01,EO-02	4					AV
141	H3252523400			PACKING	EO-00	2					A
	H3252543400			PACKING	EO-01,EO-02	2					AV
142	H3759401300			BOND,1211	NOT SHOWN	1					A
143	HF315001400			O-RING	NOT SHOWN	4					A
144	H0412239022			O-RING		1					A
145	H0550700360			O-RING	NOT SHOWN	4					A
146	HMH035626			O-RING		4					A
147	H0412229023			SEAL,FASTENER		1					A
148	H3253900800			O-RING		1					A
149	H0412229024			SEAL,FASTENAER		1					A
150	H3623950500			O-RING	EO-00	1					A
	H3263960500			O-RING	EO-01,EO-02	1					AV
151	H0412229027			O-RING		2					A
152	H1395100100			GASKET	NOT SHOWN	12					A
153	H0412229037			O-RING		1					A
154	H0594600801			WASHER,SEALING		4					A
155	HMH035092			O-RING		8					A
156	H3756200816			GASKET	NOT SHOWN	2					A
157	H3264806500			GASKET	EO-01,EO-02	1					AV
158	H3783214300			GASKET	EO-01,EO-02	2					AV
159	H3773302300			GASKET	EO-01,EO-02	2					AV
160	H0550720300			O-RING	EO-01,EO-02	2					AV
161	H0550720700			O-RING	EO-01,EO-02	1					AV
162	H0550721000			O-RING	EO-01,EO-02	2					AV
163	H0550710480			O-RING	EO-01,EO-02	1					AV
164	H0550721150			O-RING	EO-01,EO-02	1					AV
165	H0550720850			O-RING	EO-01,EO-02	1					AV
166	H0482628100			PACKING	EO-01,EO-02	2					AV
167	H0482628080			PACKING	EO-01,EO-02	1					AV
168	H4278606800			PACKING	EO-01,EO-02	2					AV

94-03 LOCK WASHER & OIL SEAL KIT

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HA414X21671	68-02	107	1 06	HF103510060	46-01	59	30	HF115510065	68-01	105	15
HA414X23171	68-02	107	1 20	HF103510060	46-02	61	35	HF115510070	61-01	67	7
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HA450X22571	68-02	107	1 14	HF103512020	36-03	43	36	HF115510085	61-01	67	10
HA529X06571	68-02	107	1 01	HF103512030	40	49	14	HF115510090	36-01	39	5
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HA640X62570	68-02	107	1 04	HF103512035	48	63	33	HF115510100	39-01	45	8
HA642X46070	68-02	107	1 13	HF103512035	61-01	67	33	HF115510100	61-01	67	11
HA643X18771	68-02	107	1 19	HF103512040	40	49	21	HF115512025	32-02	33	8
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HA715X03471	68-02	107	1 02	HF103512050	48	63	15	HF115512030	11	15	20
HA834X07871	68-02	107	1 08	HF103512055	48	63	13	HF115512035	07-03	13	20
HA860X60770	68-02	107	1 16	HF103512060	11	15	22	HF115512045	40	49	22
HA860X60870	68-02	107	1 17	HF103512060	48	65	50	HF115512045	90-02	113	17
HA866X38272	68-02	107	1 15	HF103512075	68-01	105	8	HF115512050	07-03	13	19
HA880X92370	68-02	107	1 09	HF103512085	11	15	23	HF115512055	61-04	75	45
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HF103510025	46-02	61	4	HF115510030	30	29	25	HF180508025	61-02	71	27
HF103510025	90-02	113	9	HF115510030	61-01	67	5	HF180508030	43	53	4
HF103510030	46-01	59	9	HF115510030	87	109	19	HF180508030	61-02	71	10
HF103510030	46-01	59	22	HF115510030	90-02	113	5	HF180508030	61-02	71	30
HF103510035	40	49	13	HF115510035	61-10	97	28	HF180508030	61-02	71	34
HF103510035	61-10	97	1	HF115510035	90-02	113	6	HF180508045	61-02	71	33
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HF180510025	13	17	16	HF200512030	07-03	13	18	HF232014000	68-01	105	12
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H3256134300	01	3	7	H3260760030	07-01	9	1	H3261961610	17	21	10
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H3260718100	61-01	67	37	H3261951110	17	21	5	H3263100600	30	29	9
H3260720900	07-03	13	24	H3261951210	17	21	6	H3263100700	30	29	10
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H3263628700	36-02	41	1	H3264508800	45	55	15	H3264806400	48	63	17
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H3264808800	48	63	39	H3266165600	61-02	71	18	H3266332700	63	101	8
H3264809200	45	57	52	H3266165700	61-02	71	19	H3266500310	61-01	67	1
H3264815100	48	63	1	H3266165800	61-02	71	20	H3266500320	61-01	67	2
H3264815400	48	63	19	H3266165900	61-02	71	21	H3266508100	61-01	67	27
H3264817300	48	63	22	H3266166100	61-02	71	22	H3266508200	61-01	67	25
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H3264817500	48	63	29	H3266166300	61-02	71	24	H3266512040	61-01	67	2
H3264817800	45	55	10	H3266166900	61-02	71	26	H3266521040	61-01	67	1
H3264818100	48	63	30	H3266167500	61-10	97	13	H3266601200	66	103	1
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H3340500800	05	7	6	H35A0717400	07-02	11	31	H3623000901	30	29	1
H3340706100	39-01	45	18	H35A0717500	07-02	11	25	H3623600700	94-02	121	1 29
H3340706100	45	55	1 20	H35A0717600	07-02	11	27	H3623600800	94-02	121	1 30
H3341111200	94-02	119	1 27	H35A0717700	07-02	11	29	H3623610700	36-03	43	16
H3341121200	94-02	119	1 27	H35A1701010	17	21	4	H3623610700	94-02	121	1 29
H3342302600	20	23	2 07	H35A2301200	23	25	1	H3623610800	94-02	121	1 30
H3344210200	94-02	119	1 28	H35A2302100	23	25	2	H3623950500	94-02	121	1 50
H3344220200	42	51	3	H35A2500600	05	7	4	H3624005700	94-02	121	1 31
H3344220200	94-02	119	1 28	H35A2500600	25	27	4	H3626104900	61-08	93	1 17
H3349103600	91	115	1 20	H35A3000100	30	29	5	H3626105900	61-02	71	32
H3349113500	91	115	1 21	H35A3000100	94-01	117	1 32	H3626207100	62	99	1 01
H3350113400	01	3	3	H35A3200500	32-01	31	8	H3629100900	91	115	3
H3350410300	04	5	3	H35A3200500	94-02	119	1 07	H3710402800	04	5	12 04
H3350410300	94-02	121	1 35	H35A3230100	32-01	31	13	H3710413300	04	5	9
H3356116100	61-02	71	11	H35A3230100	94-02	119	1 06	H3711300900	94-02	121	1 32
H3356116200	61-02	71	12	H35A4500400	45	55	1 21	H3711310900	13	17	15
H3373614300	94-03	123	1 05	H35A4500400	94-03	123	2 05	H3711310900	94-02	121	1 32
H3376111201	61-01	67	9	H35A4805100	68-01	105	5	H3712303400	23	25	3 02
H3376114300	61-02	71	7	H35A6101030	61-03	73	1	H3714516200	45	55	1 22
H33B6100010	61-03	73	1 15	H35A6109700	61-03	73	1 01	H3714516200	94-03	123	2 08
H3426800300	90-02	113	20	H35A6109900	61-04	75	14	H3716104900	62	99	27
H3446107700	61-04	75	14	H35A6121700	61-02	71	29	H3719103100	91	115	2
H3446107700	61-04	75	31	H35A6158300	87	109	2	H3721300700	94-02	121	1 33
H3474702600	32-01	31	10	H35A6158400	87	109	3	H3721310700	94-02	121	1 33
H34A3003500	30	29	11	H35A6204600	61-10	97	24	H3724601300	36-02	41	7
H34A4200500	42	51	2	H35A6302400	63	101	3	H3726101700	61-10	97	22
H34A4802100	48	63	14	H35A6308600	63	101	5	H3726101700	62	99	21
H34A4802200	45	55	4	H35A6506060	61-01	67	1 03	H3726101800	61-10	97	23
H34A4802200	45	55	4	H35A6506060	61-01	67	2 03	H3726101800	62	99	22
H34A4802200	48	63	16	H35A6506060	61-08	93	1	H3740702800	07-02	11	12
H34A4802200	48	63	31	H35A6507110	61-01	67	1 02	H3741102300	11	15	2
H34A4802200	48	65	51	H35A6507110	61-01	67	2 02	H3743511600	35	37	1 09
H34A6304500	63	101	4	H35A6507110	61-07	91	1	H3743511600	35	37	1 13

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H3744801500	48	65	55	H3783214300	94-02	121	1 58	H4730213500	62	99	14 01
H3744803200	48	63	47 02	H3783302100	32-02	33	14	H4750034100	87	109	15
H3746100500	61-04	75	5	H3786300200	63	101	2 03	H4750036700	87	109	6
H3746321900	94-02	121	1 34	H3786301100	63	101	2 04	H4800096600	61-04	75	15
H3750400300	04	5	5	H3786311100	63	101	2 04	H4913203020	33	35	1
H3753105401	30	29	27	H3786320210	63	101	2	H4913209000	33	35	1 04
H3753220600	32-01	31	5	H3786330210	63	101	2	H4913213580	33	35	1 26
H3754002100	40	49	2 02	H3789200100	90-01	111	13	H4913219200	33	35	1 21
H3754303200	43	53		H3789200300	46-01	59	27	H4913221100	33	35	1 16
H3754527400	45	55	20	H3789200300	46-01	59	31	H4913221600	33	35	1 14
H3754527400	48	65	49	H3789200600	90-02	113	1	H4913222200	33	35	1 10
H3754547400	48	65	49	H3789201100	90-01	111	8	H4913222500	33	35	1 09
H3754704100	46-01	59	6	H3789201200	90-01	111	9	H4913225400	33	35	1 18
H3754807500	45	57	27	H3789201300	90-01	111	21	H4913230130	33	35	1 23
H3754807500	48	63	43	H3789201400	90-01	111	22	H4913240800	33	35	1 06
H3754808400	45	55	19	H3789210500	90-01	111	13	H4913242100	33	35	1 12
H3754808401	45	55	19	H4000426200	04	5	23	H4913242210	33	35	1 05
H3754817600	45	57	28	H4108703100	63	101	14	H4913242300	33	35	1 15
H3754817600	48	65	48	H4206104300	61-02	71	3	H4913242400	33	35	1 13
H3754837600	48	65	48	H4278206800	32-01	31	18	H4913253100	33	35	1 03
H3756200816	94-02	121	1 56	H4278606800	94-02	121	1 68	H4913254000	33	35	1 25
H3756300800	61-04	75	39	H4279005011	40	49	8	H4913259000	33	35	1 31
H3756300900	61-04	75	22	H43A1594650	14	19	11	H4916223100	33	35	1 17
H3756300900	87	109	12	H43A1596800	14	19	6	H4916423700	33	35	1 22
H3756405500	61-01	69	39	H4523285300	32-01	31	2	H4917422600	33	35	1 08
H3756807400	68-01	105	6	H4529820800	87	109	10	H4917423200	33	35	1 07
H3759013100	90-02	113	2	H4560042901	46-01	59	26	H4917823100	33	35	1 11
H3759200400	63	101	2 01	H4562050101	43	53	2	H4918114410	33	35	1 28
H3759200900	63	101	2 02	H4568044601	30	29	34	H4918122700	33	35	1 24
H3759210100	90-01	111	14	H4568634700	87	109	4	H4918123500	33	35	1 29
H3759210900	63	101	2 02	H4568634800	87	109	5	H4918123700	33	35	1 30
H3759401300	94-02	121	1 42	H4568634900	87	109	11	H4918322800	33	35	1 20
H3771102200	11	15	25	H4568951800	90-01	111	10	H4918414000	32-01	31	6
H3771102300	11	15	33	H4568952101	87	109	24	H50E2801200	43	53	22
H3773302300	32-02	33	16	H4569030400	87	109	8	H5177603000	61-04	75	29
H3773302300	94-02	121	1 59	H4576475201	32-02	33	11	H5476101700	43	53	15
H3774046100	40	49	1	H4594030200	61-04	75	30	H5534405700	42	51	7
H3774826400	07-03	13	15	H4595104035	90-01	111	11	H5564301600	48	65	54
H3776306200	61-04	75	9	H4730205502	62	99	14	H56C9515100	36-03	43	33
H3776306400	61-04	75	10	H4730206300	90-01	111	18	H5803404400	32-02	33	4

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H7233510080	66	103	1 06								
H8242001900	32-02	33	3								
H9126207700	63	101	6								
H9126700201	91	115	1 23								
H9136503200	61-04	75	24								

TABLE OF BOLT,W/WASHER

BOLT,W/WASHE	BOLT/WASHER	BOLT,W/WASHE	BOLT/WASHER	BOLT,W/WASHE	BOLT/WASHER
HF180506010	HF103506010 HF251506000	HF180506035	HF103506035 HF251506000	HF180508018	HF103508018 HF251508000
HF1805-06012	HF103506012 HF251506000	HF180506040	HF103506040 HF251506000	HF180508020	HF103508020 HF251508000
HF1805-06014	HF103506014 HF251506000	HF180506045	HF103506045 HF251506000	HF180508022	HF103508022 HF251508000
HF180506016	HF103506016 HF251506000	HF180506055	HF103506055 HF251506000	HF180508025	HF103508025 HF251508000
HF180506018	HF103506018 HF251506000	HF180506060	HF103506060 HF251506000	HF180508030	HF103508030 HF251508000
HF180506020	HF103506020 HF251506000	HF180508012	HF103508012 HF251508000	HF180508035	HF103508035 HF251508000
HF180506025	HF103506025 HF251506000	HF180508014	HF103508014 HF251508000	HF180508040	HF103508040 HF251508000
HF180506030	HF103506030 HF251506000	HF180508016	HF103508016 HF251508000	HF180508045	HF103508045 HF251508000

TABLE OF BOLT,W/WASHER

BOLT,W/WASHE	BOLT/WASHER	BOLT,W/WASHE	BOLT/WASHER	BOLT,W/WASHE	BOLT/WASHER
HF180508050	HF103508050 HF251508000	HF180510018	HF103510018 HF251510000	HF180510050	HF103510050 HF251510000
HF180508055	HF103508055 HF251508000	HF180510020	HF103510020 HF251510000	HF180510055	HF103510055 HF251510000
HF180508060	HF103508060 HF251508000	HF180510022	HF103510022 HF251510000	HF180510060	HF103510060 HF251510000
HF180508065	HF103508065 HF251508000	HF180510025	HF103510025 HF251510000	HF180510065	HF103510065 HF251510000
HF180508070	HF103508070 HF251508000	HF180510030	HF103510030 HF251510000	HF180510070	HF103510070 HF251510000
HF180508075	HF103508075 HF251508000	HF180510035	HF103510035 HF251510000	HF180510085	HF103510085 HF251510000
HF180510014	HF103510014 HF251510000	HF180510040	HF103510040 HF251510000	HF180512016	HF103512016 HF251512000
HF180510016	HF103510016 HF251510000	HF180510045	HF103510045 HF251510000	HF180512020	HF103512020 HF251512000

TABLE OF BOLT,W/WASHER

BOLT,W/WASHE	BOLT/WASHER	BOLT,W/WASHE	BOLT/WASHER	BOLT,W/WASHE	BOLT/WASHER
HF180512025	HF103512025 HF251512000	HF180512065	HF103512065 HF251512000	HF182506010	HF103506010 HF251506000 HF250006000
HF180512030	HF103512030 HF251512000	HF180512085	HF103512085 HF251512000	HF182506012	HF103506012 HF251506000 HF250006000
HF180512035	HF103512035 HF251512000	HF180514035	HF103514035 HF251514000	HF182506014	HF103506014 HF251506000 HF250006000
HF180512040	HF103512040 HF251512000	HF180514045	HF103514045 HF251514000		
HF180512045	HF103512045 HF251512000			HF182506016	HF103506016 HF251506000 HF250006000
HF180512050	HF103512050 HF251512000			HF182506020	HF103506020 HF251506000 HF250006000
HF180512055	HF103512055 HF251512000			HF182506025	HF103506025 HF251506000 HF250006000
HF180512060	HF103512060 HF251512000				

TABLE OF BOLT,W/WASHER

BOLT,W/WASHE	BOLT/WASHER	BOLT,W/WASHE	BOLT/WASHER	BOLT,W/WASHE	BOLT/WASHER
HF182506030	HF103506030	HF182508025	HF103508025	HF182508050	HF103508050
	HF251506000		HF251508000		HF251508000
	HF250006000		HF250008000		HF250008000
HF182506035	HF103506035	HF182508030	HF103508030	HF182508055	HF103508055
	HF251506000		HF251508000		HF251508000
	HF250006000		HF250008000		HF250008000
HF182506055	HF103506055	HF182508035	HF103508035	HF182508085	HF103508085
	HF251506000		HF251508000		HF251508000
	HF250006000		HF250008000		HF250008000
HF182508012	HF103508012	HF182508038	HF103508038	HF182510014	HF103510014
	HF251508000		HF251508000		HF251510000
	HF250008000		HF250008000		HF250010000
HF182508016	HF103508016	HF182508040	HF103508040	HF182510016	HF103510016
	HF251508000		HF251508000		HF251510000
	HF250008000		HF250008000		HF250010000
HF182508020	HF103508020	HF182508045	HF103508045	HF182510020	HF103510020
	HF251508000		HF251508000		HF251510000
	HF250008000		HF250008000		HF250010000

TABLE OF BOLT,W/WASHER

BOLT,W/WASHE	BOLT/WASHER	BOLT,W/WASHE	BOLT/WASHER	BOLT,W/WASHE	BOLT/WASHER
HF182510025	HF103510025	HF182512025	HF103512025	HF200510016	HF115510016
	HF251510000		HF251512000		HF251510000
	HF250010000		HF250012000		
HF182510030	HF103510030	HF182512030	HF103512030	HF200510020	HF115510020
	HF251510000		HF251512000	HF200510025	HF251510000
	HF250010000		HF250012000		
HF182510035	HF103510035	HF182512040	HF103512040		HF115510025
	HF251510000		HF251512000	HF200510030	HF251510000
	HF250010000		HF250012000		
HF182510040	HF103510040			HF200510035	HF115510030
	HF251510000				HF251510000
	HF250010000				
HF182510080	HF103510080			HF200510040	HF115510035
	HF251510000			HF200510045	HF251510000
	HF250010000				
HF182512020	HF103512020			HF200510050	HF115510045
	HF251512000				HF251510000
	HF250012000				
					HF115510050
					HF251510000

TABLE OF BOLT,W/WASHER

BOLT,W/WASHE	BOLT/WASHER	BOLT,W/WASHE	BOLT/WASHER	BOLT,W/WASHE	BOLT/WASHER
HF200510055	HF115510055 HF251510000	HF200512040	HF115512040 HF251512000	HF201510020	HF115510020 HF251510000 HF250010000
HF200510060	HF115510060 HF251510000	HF200512045	HF115512045 HF251512000	HF201510025	HF115510025 HF251510000 HF250010000
HF200510065	HF115510065 HF251510000	HF200512050	HF115512050 HF251512000	HF201510030	HF115510030 HF251510000 HF250010000
HF200510070	HF115510070 HF251510000	HF200512055	HF115512055 HF251512000	HF201510035	HF115510035 HF251510000 HF250010000
HF200512020	HF115512020 HF251512000	HF200512065	HF115512065 HF251512000	HF201510040	HF115510040 HF251510000 HF250010000
HF200512025	HF115512025 HF251512000			HF201510050	HF115510050 HF251510000 HF250010000
HF200512030	HF115512030 HF251512000				
HF200512035	HF115512035 HF251512000				

TABLE OF BOLT,W/WASHER

BOLT,W/WASHE	BOLT/WASHER	BOLT,W/WASHE	BOLT/WASHER	BOLT,W/WASHE	BOLT/WASHER
HF201510055	HF115510055				
	HF251510000				
	HF250010000				
HF201510060	HF115510060				
	HF251510000				
	HF250010000				
HF201512025	HF115512025				
	HF251512000				
	HF250012000				
HF201512030	HF115512030				
	HF251512000				
	HF250012000				