

ISUZU

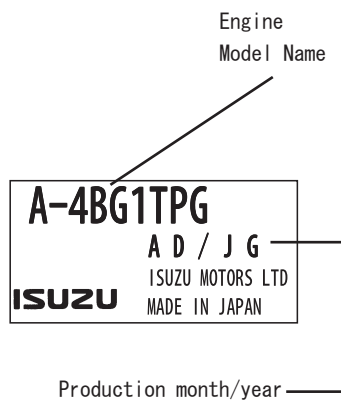
DIESEL ENGINE

4HK1XAGD03

PARTS CATALOG

How to search for the Part Number

© ID Plate information



(Engine Model Name, Production Month/Year)

Indicated in alphabetical character on the ID Plate.

(A=0, B=1, C=2, D=3, etc.).

A D / J G

(Month/Year)

For example:

March '96

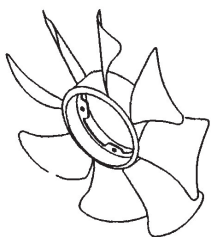
0 3 / 9 6



Parts Catalog

ILLUSTRATION

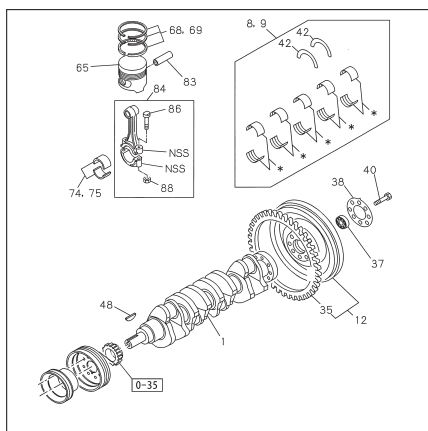
Check the Part



- Type of Part
- Place where the part is installed

(Part Name)

0-15 CRANKSHAFT, PISTON AND FLYWHEEL

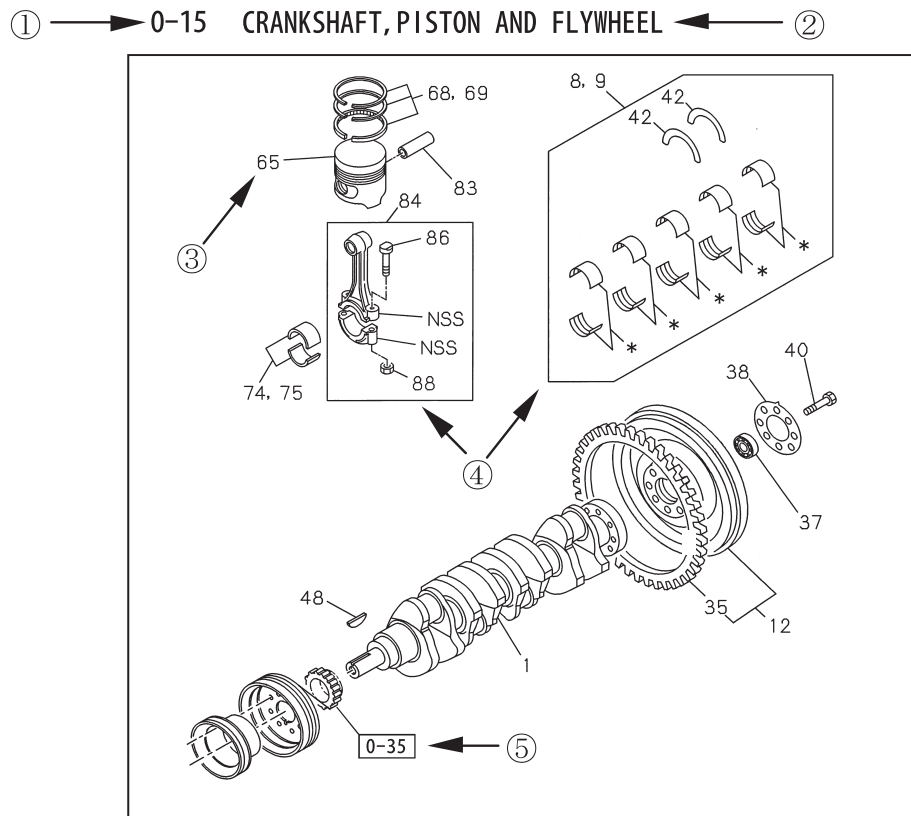


TEXT

KEY No.	Part no.	qty	Part description	Applied Date
335 (A)	5-09605-018-0	8	PLUG; C/BL(R) PT1/8 L=8 SQUARE HD	
335 (D)	5-09604-012-0 <9-99202-312-0>	1	PLUG; C/BL(R) M12X9	8508-1304
335 (D)	0-92002-412-0	1	PLUG; C/BL(R) M12X9	1305-

How to refer to the Parts Catalog

1. How to interpret the illustration



① FIG NO.

A 3-digit (X-XX) figure number has been assigned to every section/illustration of the catalog.

The first digit of the Figure Number identifies the primary catalog section.

And the second and third digits identify the subsections.

EXAMPLE: 0-15 = Engine (0); Crankshaft, Piston and Flywheel (15).

② ILLUSTRATION TITLE

The first line of the title contains a generic name(s) for the item(s) illustrated. The second line of the title identifies the specific application; i.e. engine model, type of transmission, etc.

③ KEY NUMBER

The Key Number connects the illustrated part to the appropriate text.

Items identified with a “NSS” (Not Served Separately) are not available individually, however, they may be available as part of an assembly.

④ ASSEMBLIES, KITS, SETS AND THEIR COMPONENTS

Assemblies, Kits and/or Sets are shown within a frame/box. Also shown within the frame/box are any components included with the assembly, Kit or Set.

EXAMPLE: Key No. 84 includes Key No. 86/88 and the connecting Rod and Cap which are notsupplied individually.

EXAMPLE: Key No. 8/9 includes Key No. 42 and those items identified with an asterisk(*).

Items identified with no key number may only be available in an assembly, Kit or Set.

⑤ SEE FIG NO.

Items shown as a point of reference are not identified with a Key Number. These items are shown because of the way they fit within the illustration. They are described in more detail in another section of the Catalog.

The applicable catalog section is shown next to the illustration.

2. How to interpret the Text

KEY No.	Part no.	qty	Part description	Applied Date
335 (A)	5-09605-018-0	8	PLUG; C/BL(R) PT1/8 L=8 SQUARE HD	
335 (D)	5-09604-012-0 <9-99202-312-0>	1	PLUG; C/BL(R) M12X9	8508-1304
335 (D)	0-92002-412-0	1	PLUG; C/BL(R) M12X9	1305-

① KEY NUMBER

The combination of the Figure Number and Key Number identifies a particular part. For example, Figure Number 0-10 and Key Number 1 combines to identify "COVER;HEAD". This combination of the Figure Number and Key Number (i.e. 0-10-1) will be used to identify the "COVER;HEAD" in all parts catalogs. Key Numbers, therefore, may not be listed consecutively.

①' ILLUSTRATION REMARKS

When two or more items are identified by the same Key Number, an alphabetical character (i.e. "A", "B", "C", etc) will be used to identify the part number to the applicable illustration.

② PART NUMBER

Used to identify a specific part.

③ QUANTITY

The quantity of the part per that particular application for one engine is indicated. As to the component of a particular Assembly, the quantity per one assembly is indicated. In those cases where the required quantity is unknown (i.e. shims), "AR" (As required) will be indicated.

④ PART DESCRIPTION

The actual description of the part is listed first then the location of the part. EXAMPLE:
Cover ; Cylinder Head

④' SIDE

Indicated whether the item is installed on the left or right side of the engine as viewed from Flywheel.

④" REMARKS

Any additional information pertaining to the characteristics of the item; i.e. size, shape, color, Engine No. etc. will be listed in the Remarks Column.

⑤ APPLICABLE PERIOD

Indicated by the year and month (i.e. 9202 = February 1992).

Abbreviation List

ABBREVIATIONS	DEFINITION	ABBREVIATIONS	DEFINITION
A	AMPERE	KW	KILOWATT
ACCEL	ACCELERATOR	L	LITER
ACL	AIR CLEANER	L1=	LENGTH (VERTICAL)
ADJ	ADJUSTER	L2=	LENGTH (SIDE)
AL	ALUMINUM	L=	LENGTH
A/R	AS REQUIRED	LH	LEFT HAND
ASM	ASSEMBLY	LK	LOCK
AUTO	AUTOMATIC	LVR	LEVER
B=	BREADTH	LWR	LOWER
BRG	BEARING	MAN	MANUAL
BRK	BRAKE	MANIF	MANIFOLD
BRKT	BRACKET	MTG	MOUNTING
CAC	CHARGE AIR COOLER	M/T	MANUAL TRANSMISSION
C/BL	CYLINDER BLOCK	MM	MILLIMETER
CLU	CLUTCH	NACHI	NACHI-FUJIKOSHI CO.
CMPR	COMPRESSOR	NGK	NGK SPARK PLUG CO.
COMB	COMBINATION	NO.	NUMBER
COMPL	COMPLETE	NOK	NOK CO.
CONN	CONNECTING	NPN	NO PART NUMBER
CONT	CONTROL	NPR	NIPPON PISTON RING CO.
CVR	COVER	NSG	NIPPON SHEET GLASS CO.
CYL	CYLINDER	NSS	NOT SERVICED SEPARATELY
D=	DIAMETER	NSK	NSK LTD.
DC	DIRECT CURRENT	NTN	NTN CO.
DIAPH	DIAPHRAGM	OD	OUTSIDE DIAMETER
DIFF	DIFFERENTIAL	OPT	OPTION
EGR	EXHAUST GAS RECIRCULATION	OVS1	OVERSIZE
ENG	ENGINE	PCV	POSITIVE CRANK CASE VENTILATION
EXC	EXCEPT	PL	PLAIN
EXH	EXHAUST	PRE-CHAMBER	PRECOMBUSTION CHAMBER
E#	ENGINE NUMBER	PROP	PROPELLER
EXP	EXPORT	P/S	POWER STEERING
FIG NO.	FIGURE NUMBER	PTO	POWER TAKE OFF
FLEX	FLEXIBLE	QOS	QUICK ON START
FRT	FRONT	QTY	QUANTITY
FWD	FORWARD	QUAD	QUADRANT
G	GRAM	RAD	RADIATOR
GEN	GENERATOR	REG	REGULATOR
GOV	GOVERNOR	RET	RETAINER
GRD=	GRADE	REV	REVERSE
G/RATIO	GEAR RATIO	RH	RIGHT HAND
H=	HEIGH	RR	REAR
HD	HEAD	RWD	REARWARD
HEX	HEXAGON	SPD	SPEED
HSG	HOUSING	SPR	SPRING
ID=	INSIDE DIAMETER	STD	STANDARD
IGN	IGNITION	SW	SWITCH
INCL	INCLUDING	SYN	SYNCHRONIZER
INJ	INJECTION	T=	THICKNESS
INL	INLET	TAP	TAPPING
ISC	IDLE SPEED CONTROL	TBK	TBK CO.
JBK	JIDOSHA BUHIN KOGYO CO.	TC	TURBOCHARGER
KG	KILOGRAM	TDC	TOP DEAD CENTER
KM/H	KILOMETER PER HOUR	TEMP	TEMPERATURE

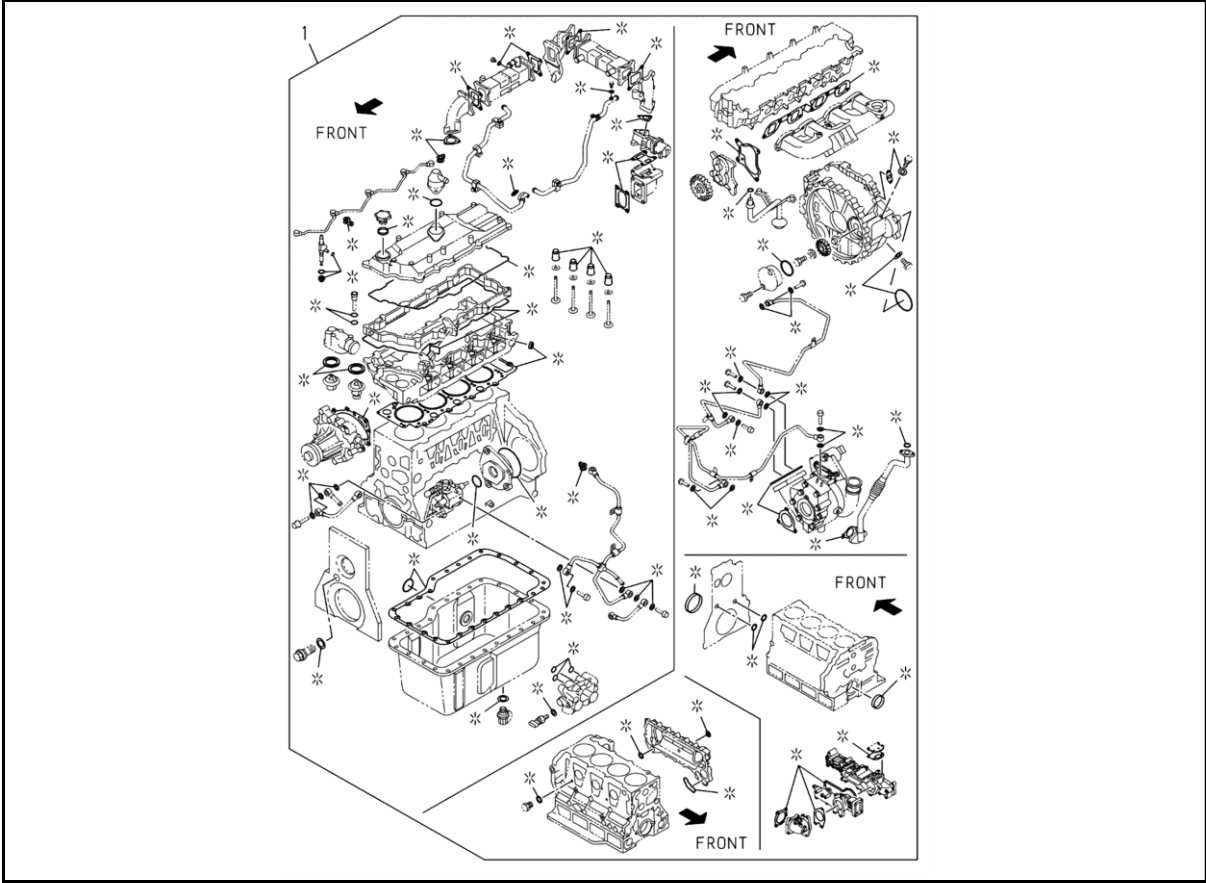
ABBREVIATIONS	DEFINITION	ABBREVIATIONS	DEFINITION
TICS	TIMING INJECTION CONTROL SYSTEM		
TRANS	TRANSMISSION		
UNSI	UNDER SIZE		
UPR	UPPER		
V	VOLT		
VAC	VACUUM		
VLV	VALVE		
W	WATT		
W/	WITH		
WO/	WITHOUT		
Z=	TEETH		
ZN	ZINC		
&	AND		
"	INCH		
#	NUMBER		
1ST	FIRST		
2ND	SECOND		
3RD	THIRD		
4TH	FOURTH		
5TH	FIFTH		
6TH	SIXTH		
7TH	SEVENTH		
8TH	EIGHTH		
9TH	NINTH		

FIGURE NUMBER INDEX

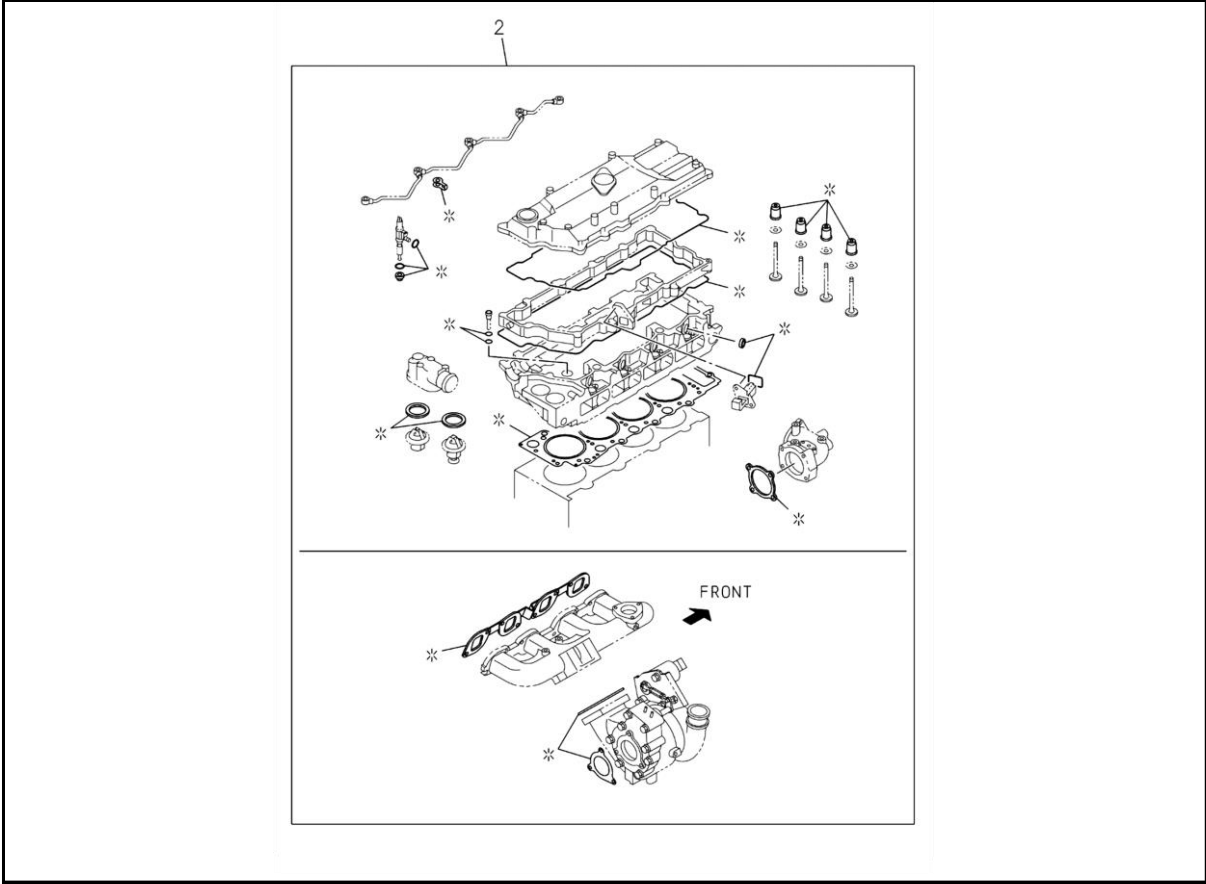
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2-20	MANUAL TRANSMISSION ASM AND CASE	60
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0-05 ENGINE GASKET KIT

(No.1)



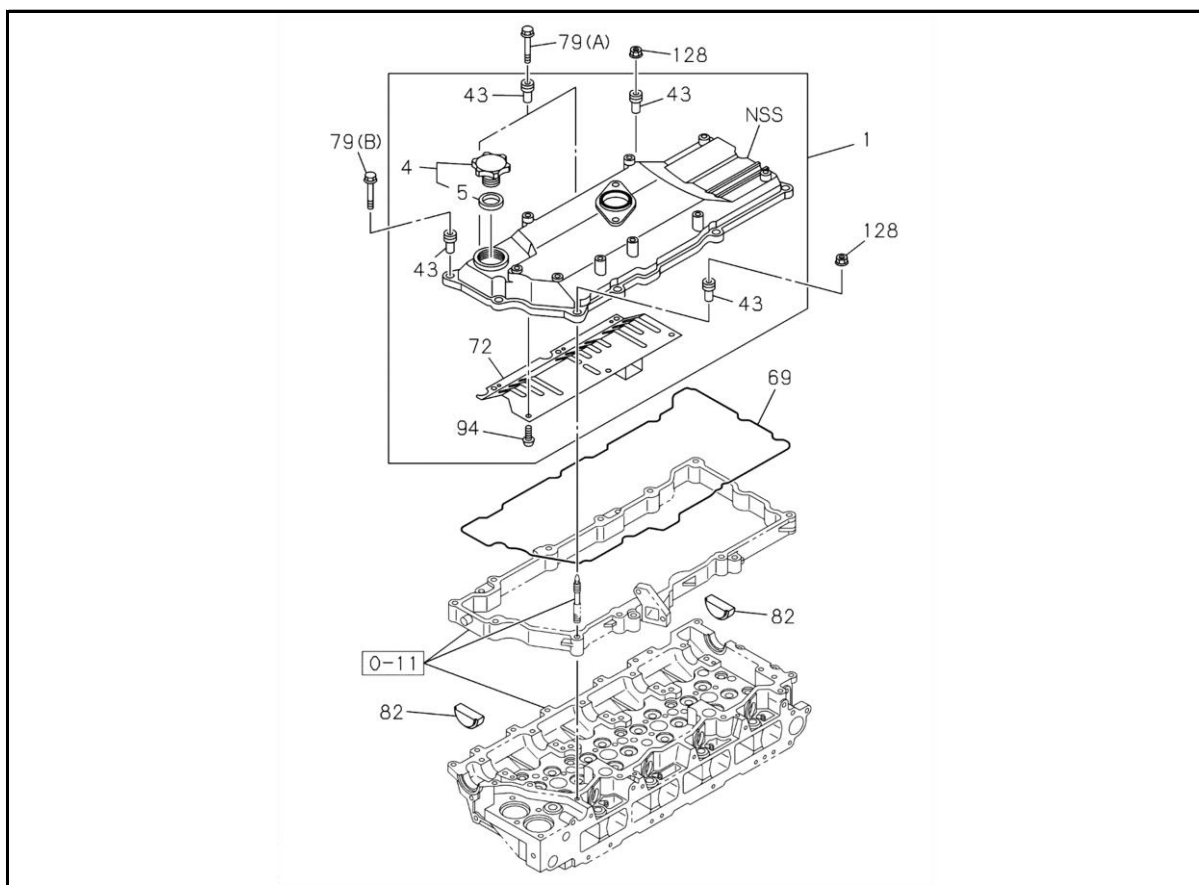
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0-05 ENGINE GASKET KIT

KEY No.	Part no.	qty	Part description	Engine serial no.
1	5-87817-884-3	1	GASKET SET; ENG OVERHAUL	
2	5-87817-885-1	1	GASKET SET; ENG HD OVERHAUL	

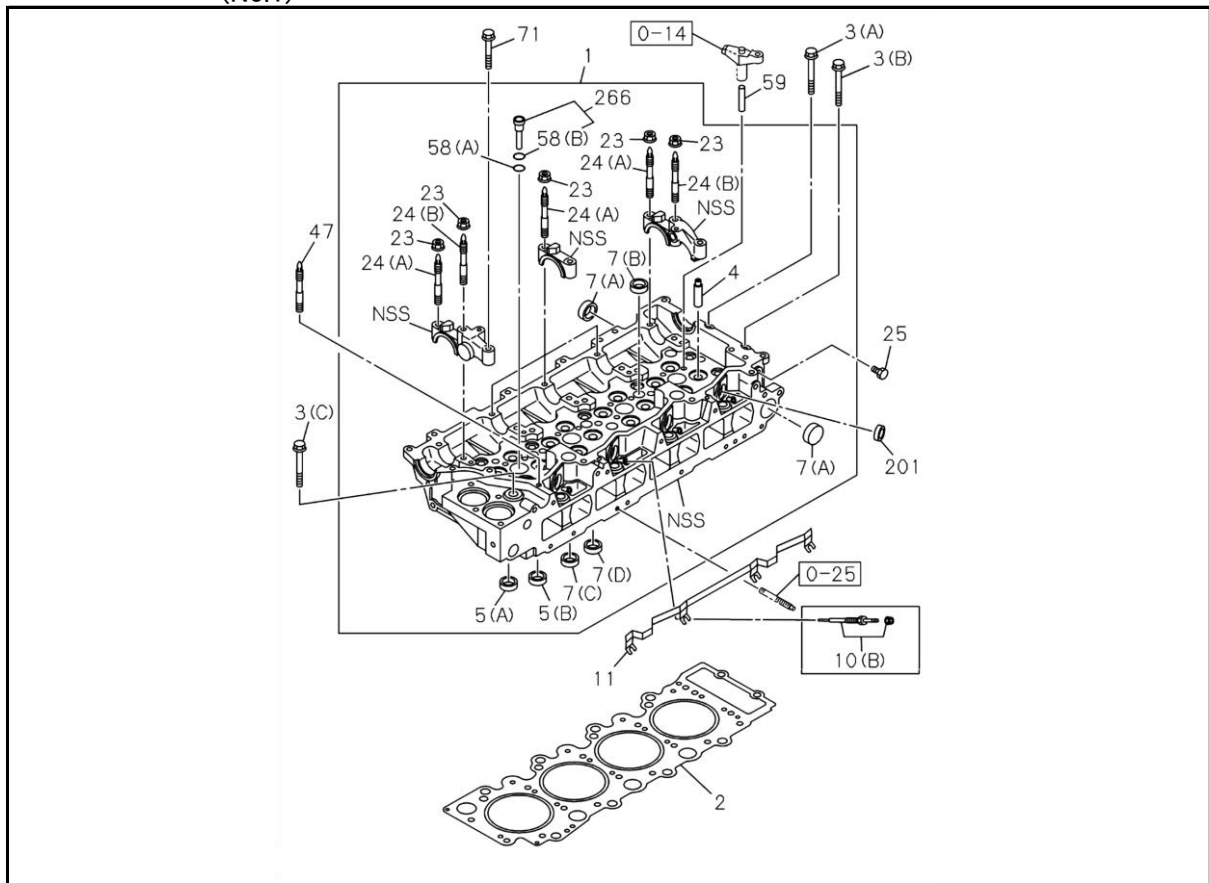
0-10 CYLINDER HEAD COVER



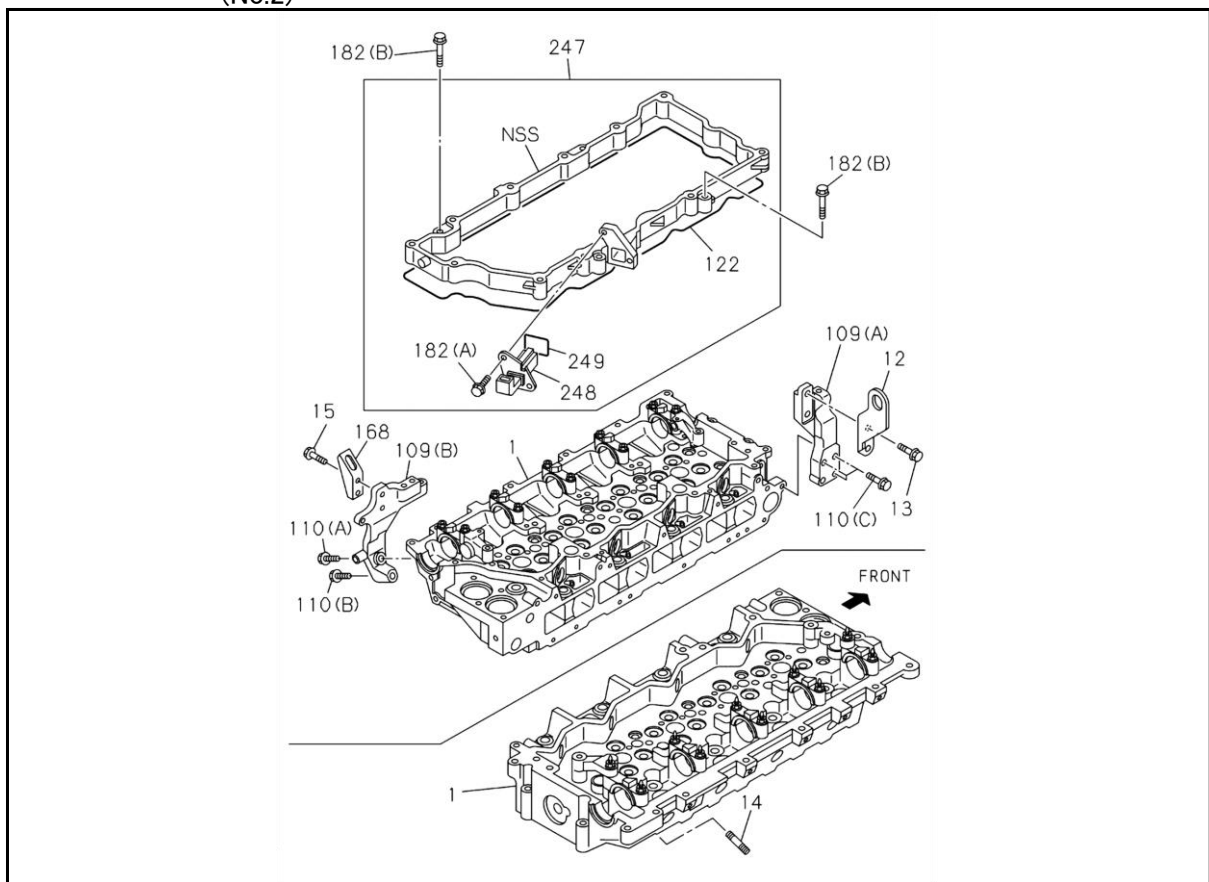
KEY No.	Part no.	qty	Part description	Engine serial no.
1	8-97362-842-2	1	COVER; CYL HD	
4	8-94399-723-0	1	CAP; OIL FILLER	
5	8-94399-689-0	1	GASKET; OIL FILLER ALSO INCLUDED IN GASKET SET(ENGINE)ID=49 OD=58	
43	8-94395-684-0	11	RUBBER; MTG,HD COVER,OUTER OD=22	
69	8-97331-359-1	1	GASKET; HD TO COVER ALSO INCLUDED IN GASKET SET(ENG & HEAD)	
72	8-94392-655-0	1	PLATE; INNER HD COVER	
79 (A)	0-28650-835-0	2	BOLT; COVER M8X35 FLANGE	
79 (B)	1-09044-072-1	7	BOLT; COVER M8X65 FLANGE	
82	8-98163-813-0	2	PLUG; CYL HD COVER	
94	0-35050-408-0	6	SCREW; BAFFLE PLATE,CYL HD COVER	
128	0-91180-108-0	2	NUT; COVER,CYL HEAD COVER M8 FLANGE	

0-11 CYLINDER HEAD

(No.1)



(No.2)



0-11 CYLINDER HEAD

KEY No.	Part no.	qty	Part description	Engine serial no.
1	8-98170-619-0	1	HEAD ASM; CYL	
2	8-98114-256-0	1	GASKET; CYL HD ALSO INCLUDED IN GASKET SET(ENG & HEAD)NON GRADE	
3 (A)	8-94399-554-0	1	BOLT; CYL HD TO BLOCK M10X73	
3 (B)	8-94399-555-0	1	BOLT; CYL HD TO BLOCK M10X43	
3 (C)	8-98260-005-0	18	BOLT; CYL HD TO BLOCK M14X115 W/FLANGE	
4	8-97376-719-2	16	GUIDE; VLV	
5 (A)	8-98028-874-0	8	SEAT; VLV INSERT ID=32 INLET	
5 (B)	8-98028-875-0	8	SEAT; VLV INSERT ID=31 EXHAUST	
7 (A)	8-97096-821-0	5	CUP; SEALING,CYL HEAD OD=32	
7 (B)	1-09600-016-0	4	CUP; SEALING,CYL HEAD OD=25	
7 (C)	9-11129-128-0	7	CUP; SEALING,CYL HEAD OD=20	
7 (D)	5-11129-006-0	5	CUP; SEALING,CYL HEAD OD=16	
10 (B)	8-97600-096-3	4	PLUG; GLOW NGK 12V	
11	8-97332-358-2	1	CONNECTOR; GLOW PLUG	
12	9-11777-612-1	1	HANGER; ENG,RR	
13	0-28151-020-0	2	BOLT; HANGER M10X20 FLANGE	
14	8-94397-286-0	2	STUD; EXH MANIF M10X60 L=75	
15	0-28151-230-0	2	BOLT; HANGER,FRT M12X30 FLANGE	
23	0-91180-208-0	10	NUT; CAM BRKT M8 FLANGE	
24 (A)	8-94322-513-2	8	STUD; CM/SHF BRKT M8X41 L=66	
24 (B)	8-94322-512-2	2	STUD; CM/SHF BRKT M8X54 L=79	
25	8-98003-416-0	1	PLUG; CYL HD M8X10	
47	0-49140-860-0	2	STUD; CYL HD M8X60 L=72	
58 (A)	8-97604-916-0	4	GASKET; SLEEVE,NOZZLE HOLDER ALSO INCLUDED IN GASKET SET(ENG & HEAD)ID=26.4	
58 (B)	8-98004-187-0	4	GASKET; SLEEVE,NOZZLE HOLDER ALSO INCLUDED IN GASKET SET(ENG & HEAD)ID=26.2	
59	8-97381-603-1	8	GUIDE; BRIDGE	
71	0-28050-835-0	2	BOLT; CAM BRKT M8X35 FLANGE	
109 (A)	8-98112-558-2	1	BRACKET; ENG HANGER	
109 (B)	8-98116-140-2	1	BRACKET; ENG HANGER	
110 (A)	0-28151-050-0	1	BOLT; BRKT,ENG HANGER M10X50 FLANGE	

KEY No.	Part no.	qty	Part description	Engine serial no.
110 (B)	0-28151-080-0	1	BOLT; BRKT,ENG HANGER M10X80 FLANGE	
110 (C)	0-28151-250-0	3	BOLT; BRKT,ENG HANGER M12X50 FLANGE	
122	8-97331-360-1	1	GASKET; COVER ALSO INCLUDED IN GASKET SET(ENG & HEAD)	
168	1-11777-087-0	1	HANGER; ENG,FRT	
182 (A)	0-28050-812-0	2	BOLT; CASE M8X12 FLANGE	
182 (B)	0-28050-845-0	4	BOLT; CASE M8X45 FLANGE	
201	1-09639-034-0	4	GASKET; SLEEVE,INJ PUMP ALSO INCLUDED IN GASKET SET(ENG & HEAD)	
247	8-97331-362-1	1	CASE; CYL HEAD,C/H COVER	
248	8-94390-858-1	1	CONNECTOR	
249	8-94391-310-0	1	GASKET; CONNECTOR ALSO INCLUDED IN GASKET SET(ENG & HEAD)	
266	8-98018-462-0	4	SLEEVE ASM; NOZZLE HOLDER ALSO INCLUDED IN GASKET SET(ENG & HEAD)	

(No.1)



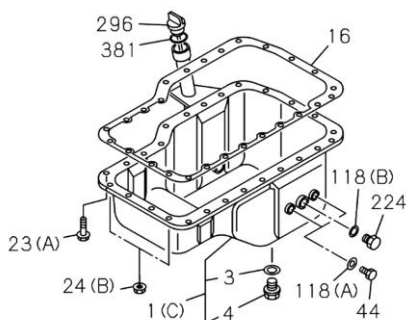
0-12 CYLINDER BLOCK

KEY No.	Part no.	qty	Part description	Engine serial no.
1	8-98204-528-0	1	BLOCK ASM; CYL	
2	1-87814-206-1	4	LINER SET; ENG CYL OD GRADE=3X	
2	1-87814-205-1	4	LINER SET; ENG CYL OD GRADE=1X	
4	8-94391-603-1	4	LINER; C/BL ALSO INCLUDED IN LINER SET OD GRADE=3X	
4	8-94391-602-1	4	LINER; C/BL ALSO INCLUDED IN LINER SET OD GRADE=1X	
7	8-97352-537-0	1	PLUG; WATER DRAIN M10X10	
13	8-94399-688-1	2	DOWEL; C/BL TO HD OD=18.15	
23 (A)	1-09600-016-0	1	CUP; SEALING,C/BL FRT & RR OD=25	
23 (B)	8-97036-550-1	3	CUP; SEALING,C/BL FRT & RR OD=45	
34	8-97328-859-0	1	VALVE; OIL RELIEF	
35	8-94173-412-0	1	GASKET; RELIEF VLV ALSO INCLUDED IN GASKET SET(ENGINE)ID=23.3	
54	1-09305-005-0	2	STUD; OIL PAN TO BLOCK M8X20 L=32	
56	8-98173-342-0	4	JET; OIL,PISTON COOLING	
61	8-94483-674-0	4	PIN; STRAIGHT L=22	
70 (A)	1-09600-016-0	1	CUP; SEALING,FRT & RR OD=25	
70 (B)	8-97096-824-0	4	CUP; SEALING,FRT & RR OD=40	
89 (A)	5-09600-013-0	1	CUP; SEALING,OIL GALLERY OD=12.3	
89 (B)	9-11129-128-0	3	CUP; SEALING,OIL GALLERY OD=20	
97 (A)	5-11129-006-0	1	CUP; SEALING OD=16	
97 (B)	8-97209-609-0	3	CUP; SEALING OD=22	
132	8-97329-618-0	4	VALVE; CHECK,OIL	
136	8-98091-566-0	2	BUSHING; DRIVE SHAFT,OIL PUMP	
211 (A)	8-97077-638-0	10	BOLT; CRANKCASE M14X115 FLANGE	
211 (B)	8-94399-553-2	17	BOLT; CRANKCASE M10X82 FLANGE	
212	8-97135-423-0	2	PIN; CRANKCASE OD=10 L=20	
303	8-98251-345-0	1	GASKET; PLUG ALSO INCLUDED IN GASKET SET(ENGINE)ID=14.2 OD=19.2	
335 (A)	8-97658-185-0	1	PLUG; C/BL,SIDE M14X16.5	
335 (A)	8-97329-617-0	1	PLUG; C/BL,SIDE M14X16.5	

0-12 CYLINDER BLOCK

KEY No.	Part no.	qty	Part description	Engine serial no.
335 (B)	9-09862-156-0	1	PLUG; C/BL,SIDE M14X14	
351	1-09630-083-0	1	GASKET; COCK,WATER DRAIN ALSO INCLUDED IN GASKET SET(ENGINE)ID=10.2	
406	5-09605-005-0	2	PLUG; CRANK CASE PT3/8 T=12	
444	8-98166-978-2	1	PLATE; C/BL	
445 (A)	0-28050-820-0	2	BOLT; PLATE M8X20 FLANGE	
445 (B)	8-98173-265-0	1	BOLT; PLATE M14X25 FLANGE	

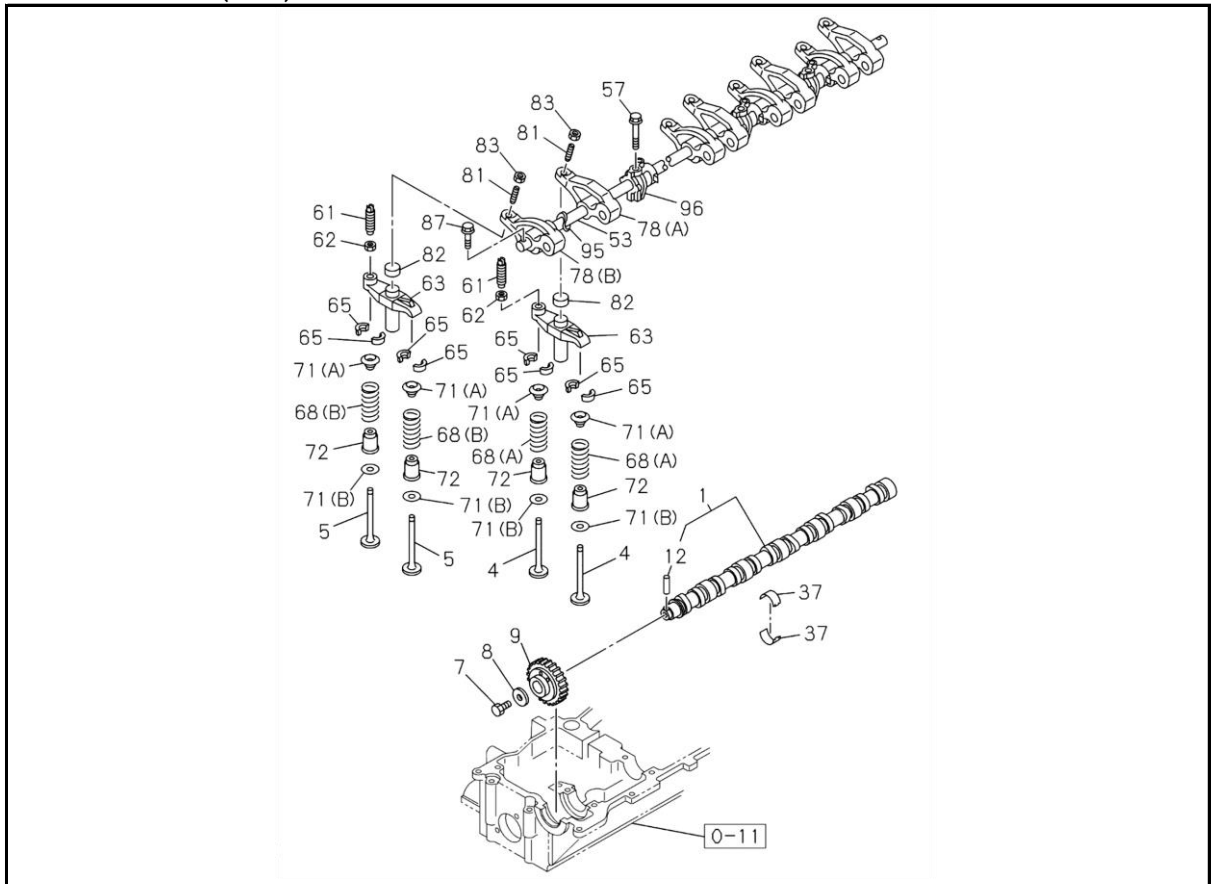
0-13 OIL PAN AND LEVEL GAUGE



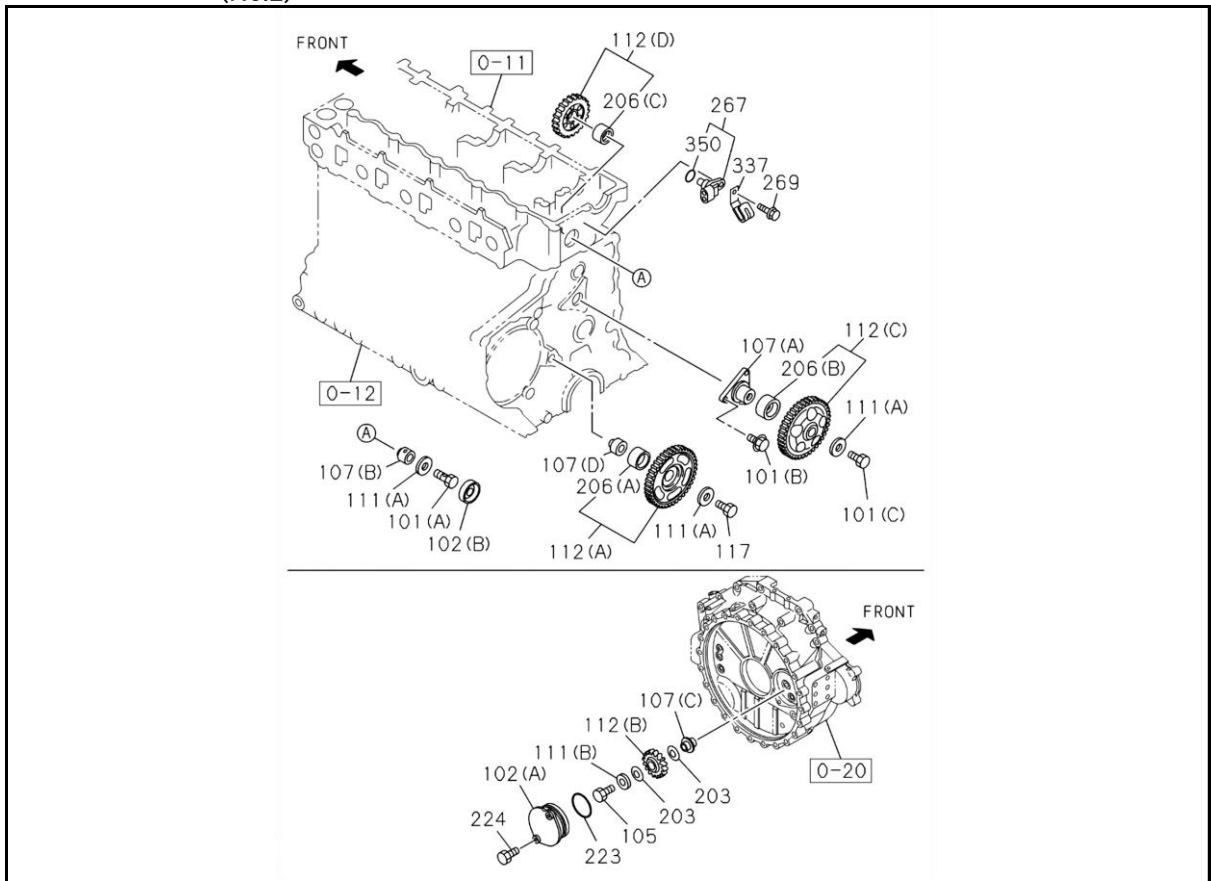
KEY No.	Part no.	qty	Part description	Engine serial no.
1 (C)	8-98056-396-1	1	PAN ASM; OIL	
3	1-09623-058-0	1	GASKET; DRAIN PLUG ALSO INCLUDED IN GASKET SET(ENGINE)ID=26.8	
4	1-09604-022-0	1	PLUG; DRAIN,OIL M24X17 FLANGE	
16	8-97363-845-1	1	GASKET; OIL PAN TO C/BL ALSO INCLUDED IN GASKET SET(ENGINE)	
23 (A)	0-28650-820-0	22	BOLT; OIL PAN M8X20 FLANGE	
24 (B)	8-97581-234-0	4	NUT; OIL PAN M8 W/LK WASHER	
44	0-92002-416-0	2	PLUG M16X12	
118 (A)	9-09571-416-0	2	GASKET; PLUG,OIL HTR ALSO INCLUDED IN GASKET SET(ENGINE)ID=16.2 OD=24	
118 (B)	9-09571-424-0	1	GASKET; PLUG,OIL HTR ALSO INCLUDED IN GASKET SET(ENGINE)ID=24.5 OD=32	
224	9-99202-324-0	1	PLUG; OIL PAN HTR M24X12	
296	8-98062-714-0	1	CAP; W/LEVEL GAUGE	
381	1-09623-246-0	1	GASKET; CAP ALSO INCLUDED IN GASKET SET(ENGINE)	

0-14 CAMSHAFT AND VALVE

(No.1)



(No.2)



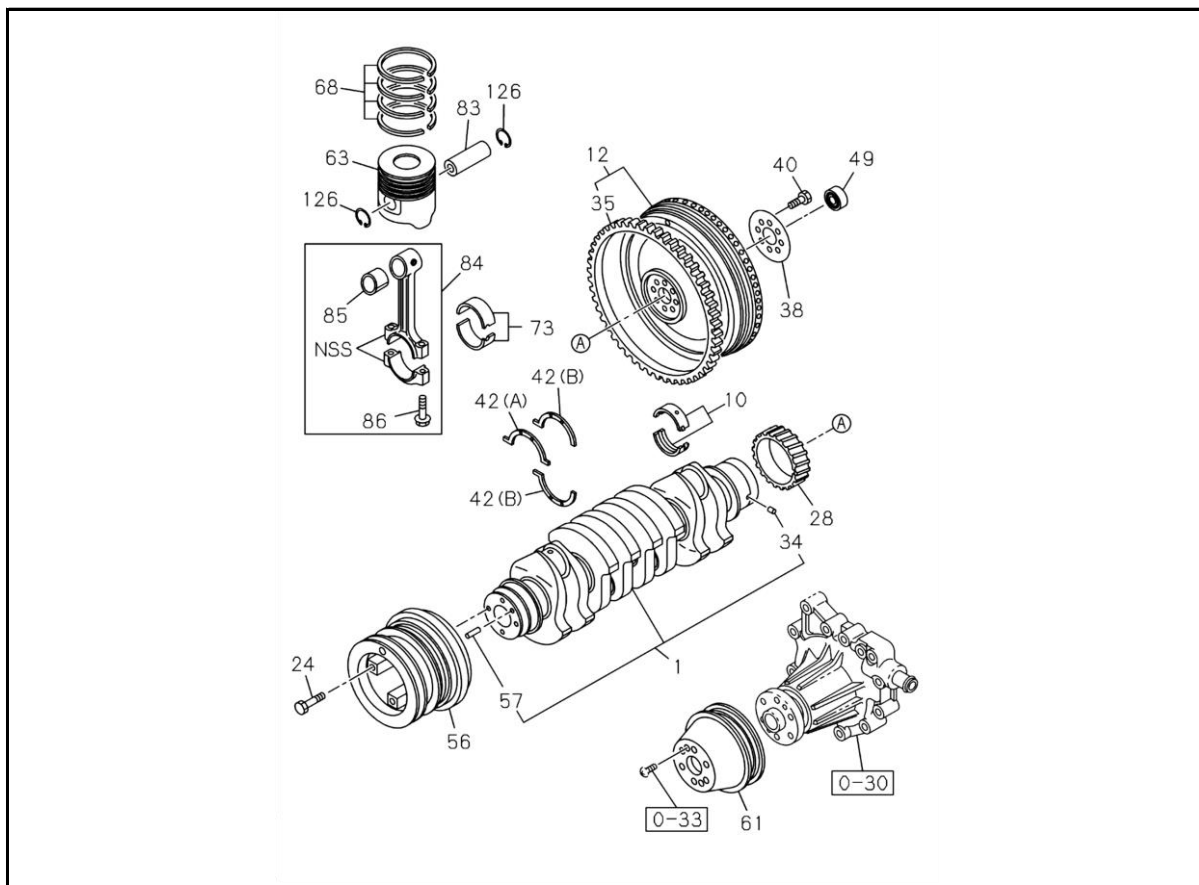
0-14 CAMSHAFT AND VALVE

KEY No.	Part no.	qty	Part description	Engine serial no.
1	8-97262-166-0	1	CAMSHAFT	
4	8-94395-882-2	8	VALVE; INL	
5	8-97209-876-4	8	VALVE; EXH	
7	8-94396-439-0	1	BOLT; CM/SHF GEAR M14X40	
8	9-09851-850-3	1	WASHER; CM/SHF GEAR ID=14.5	
9	8-98018-935-3	1	GEAR; CM/SHF Z=35	
12	8-94399-487-0	1	KEY; CAM GEAR SET	
37	8-97386-189-0	10	METAL; CM/SHF	
53	8-97389-921-0	1	SHAFT; ROCKER ARM	
57	8-94393-131-0	3	BOLT; ROCKER ARM BRKT M10X62 FLANGE	
61	8-94394-803-0	8	SCREW; ADJ,BRIDGE M8X21	
62	9-09844-574-0	8	NUT; ADJ SCREW LK BRIDGE M8 FLANGE	
63	8-94392-002-3	8	BRIDGE	
65	5-12565-004-0	32	COLLAR; SPLIT	
68 (A)	8-94395-884-0	8	SPRING; VLV INLET MARK BLUE	
68 (B)	8-94395-885-1	8	SPRING; VLV EXH MARK WHITE	
71 (A)	8-94390-783-2	16	SEAT; SPR OD=32.8 T=12.75	
71 (B)	8-94391-468-0	16	SEAT; SPR ID=14.3 T=1.0	
72	8-97376-720-0	16	SEAL; VLV GUIDE ALSO INCLUDED IN GASKET SET(ENG & HEAD)	
78 (A)	8-97306-421-3	4	ARM; ROCKER INLET	
78 (B)	8-97306-424-3	4	ARM; ROCKER EXHAUST	
81	8-94395-024-0	8	SCREW; ADJ,ROCKER ARM M10 L=32	
82	8-94396-015-2	8	CAP; ROCKER SHAFT	
83	0-91111-510-0	8	NUT; ADJ SCREW,LK	
87	0-28050-840-0	2	BOLT; ROCKER SHAFT M8X40 FLANGE	
95	8-94392-999-0	4	SPRING; ROCKER SHAFT	
96	8-97334-414-0	3	BRACKET; ROCKER ARM SHAFT	
101 (A)	8-94372-221-1	1	BOLT; THRUST COLLAR M14X36.5	
101 (B)	0-28060-816-0	3	BOLT; THRUST COLLAR M8X16 FLANGE	
101 (C)	0-23951-425-0	1	BOLT; THRUST COLLAR M14X25	
102 (A)	8-94334-681-1	1	COVER; IDLE GEAR	
102 (B)	8-97096-826-0	1	COVER; IDLE GEAR OD=51	
105	0-16956-460-0	1	BOLT; IDLE GEAR SHAFT M14X60	
107 (A)	8-97350-021-0	1	SHAFT; IDLE GEAR	
107 (B)	8-97186-398-1	1	SHAFT; IDLE GEAR	

0-14 CAMSHAFT AND VALVE

KEY No.	Part no.	qty	Part description	Engine serial no.
107 (C)	8-98041-099-0	1	SHAFT; IDLE GEAR	
107 (D)	8-98060-780-0	1	SHAFT; IDLE GEAR	
111 (A)	8-97209-728-2	3	COLLAR; THRUST,IDLE GEAR ID=14.5 OD=46	
111 (B)	8-98023-616-0	1	COLLAR; THRUST,IDLE GEAR ID=14.3 OD=53	
112 (A)	8-97600-586-1	1	GEAR; IDLE Z=72-60-30	
112 (B)	8-98041-064-0	1	GEAR; IDLE Z=34	
112 (C)	8-97606-767-0	1	GEAR; IDLE Z=61	
112 (D)	8-97606-929-0	1	GEAR; IDLE Z=41	
117	8-97113-167-0	1	BOLT; FLANGE M14X65	
203	8-98041-089-0	2	WASHER; THRUST	
206 (A)	1-12528-028-0	1	BUSHING; IDLE GEAR	
206 (B)	8-97606-768-0	1	BUSHING; IDLE GEAR	
206 (C)	8-97606-770-0	1	BUSHING; IDLE GEAR	
223	1-09623-423-0	1	GASKET; COVER,IDLE GEAR ALSO INCLUDED IN GASKET SET(ENGINE)ID=105.6	
224	0-28050-816-0	2	BOLT; COVER M8X16 FLANGE	
267	8-98019-024-0	1	SENSOR; CAM ANGLE	
269	0-28050-612-0	1	BOLT; SENSOR M6X12 FLANGE	
337	5-09700-307-1	1	CLIP; SENSOR L=80	
350	8-97369-404-0	1	GASKET; SENSOR,CAM ANGLE	

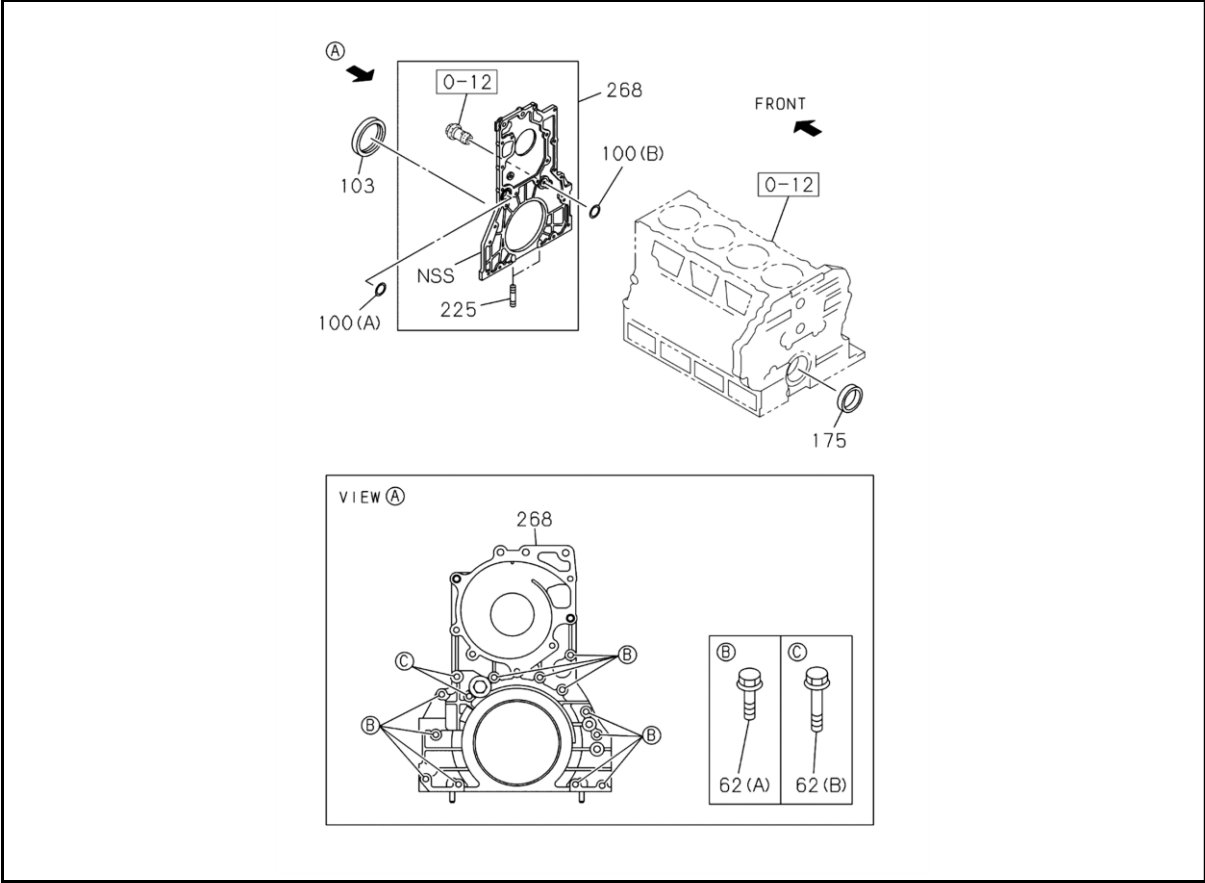
0-15 CRANKSHAFT,PISTON AND FLYWHEEL



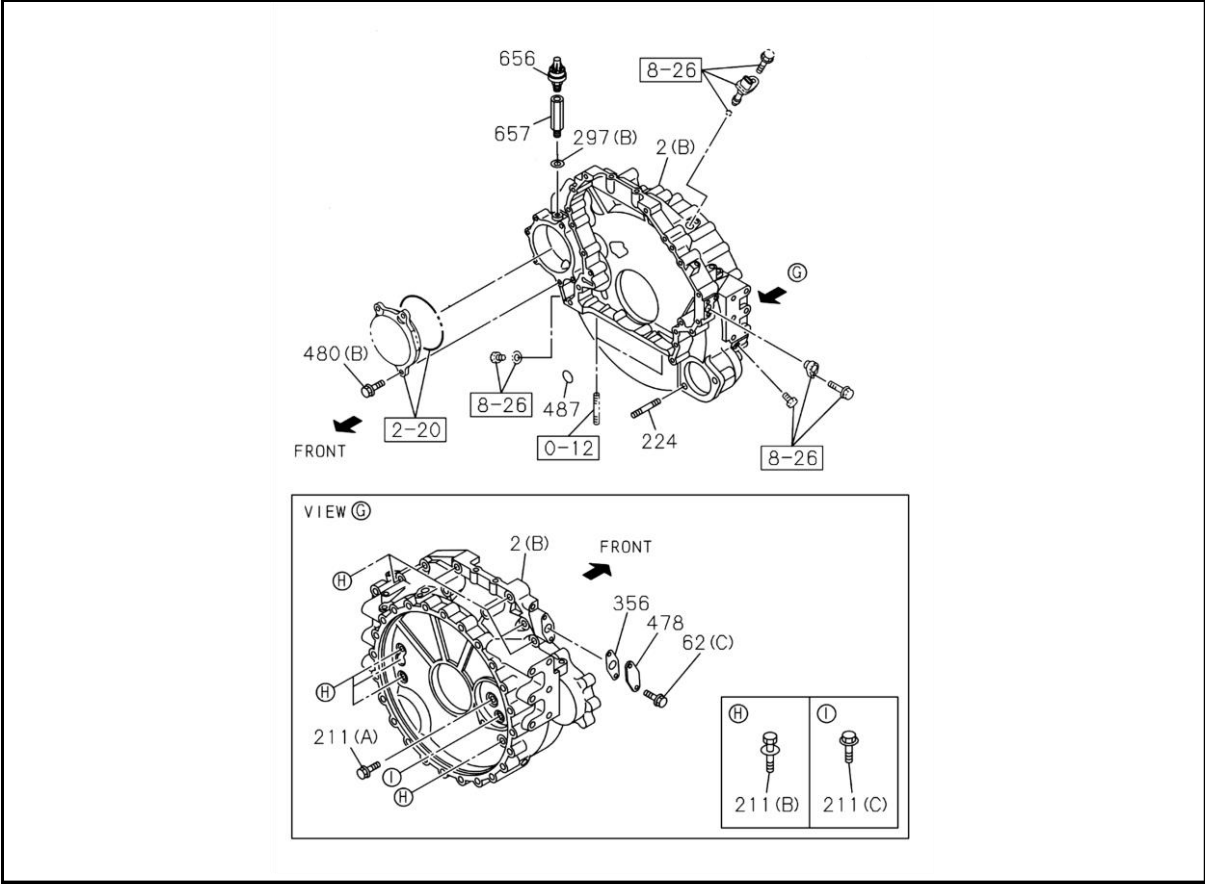
KEY No.	Part no.	qty	Part description	Engine serial no.
1	8-98029-270-1	1	CRANKSHAFT	
10	8-97372-078-1	5	METAL SET; CRANKSHAFT,STANDARD BROWN	
10	8-97372-077-1	5	METAL SET; CRANKSHAFT,STANDARD BLACK	
10	8-97372-076-1	5	METAL SET; CRANKSHAFT,STANDARD BLUE	
12	8-98036-783-0	1	FLYWHEEL	
24	8-97028-733-0	4	BOLT; DAMPER M16X42	
28	8-94392-255-1	1	GEAR; CR/SHF Z=42	
34	9-09878-626-0	1	PIN; GEAR SETTING OD=5 L=6	
35	8-94393-132-0	1	GEAR; RING ID=361 Z=129	
38	8-94397-496-1	1	WASHER; FLYWHEEL ID=55 OD=110	
40	8-97178-013-0	8	BOLT; FLYWHEEL M16X42	
42 (A)	8-97386-548-0	1	WASHER; THRUST,CR/SHF FRONT	
42 (B)	8-97386-549-0	2	WASHER; THRUST,CR/SHF REAR	
49	1-09800-214-0	1	BEARING; PILOT	
56	8-98062-707-0	1	PULLEY; CR/SHF DAMPER	
57	9-08150-820-0	2	PIN; PULLEY OD=8 L=20	

KEY No.	Part no.	qty	Part description	Engine serial no.
61	8-98300-042-0	1	PULLEY; FAN DRIVE OD=169 RED PAINT	
63	8-98244-522-0	4	PISTON ALSO INCLUDED IN LINER SET	
68	8-98017-166-0	4	RING SET; PISTON,STANDARD ALSO INCLUDED IN LINER SET	
73	8-97616-359-0	4	METAL SET; CONN ROD,STANDARD YELLOW	
73	8-97616-358-0	4	METAL SET; CONN ROD,STANDARD GREEN	
83	8-98018-863-1	4	PIN; PISTON ALSO INCLUDED IN LINER SET	
84	8-98018-425-3	4	ROD ASM; CONN	
85	8-94391-794-1	4	BUSHING; CONNROD	
86	8-98091-141-0	8	BOLT; CONNROD M13X57 FLANGE	
126	1-09587-081-1	8	RING; SNAP,PISTON PIN ALSO INCLUDED IN LINER SET	

0-20 TIMING GEAR CASE AND FLYWHEEL HOUSING



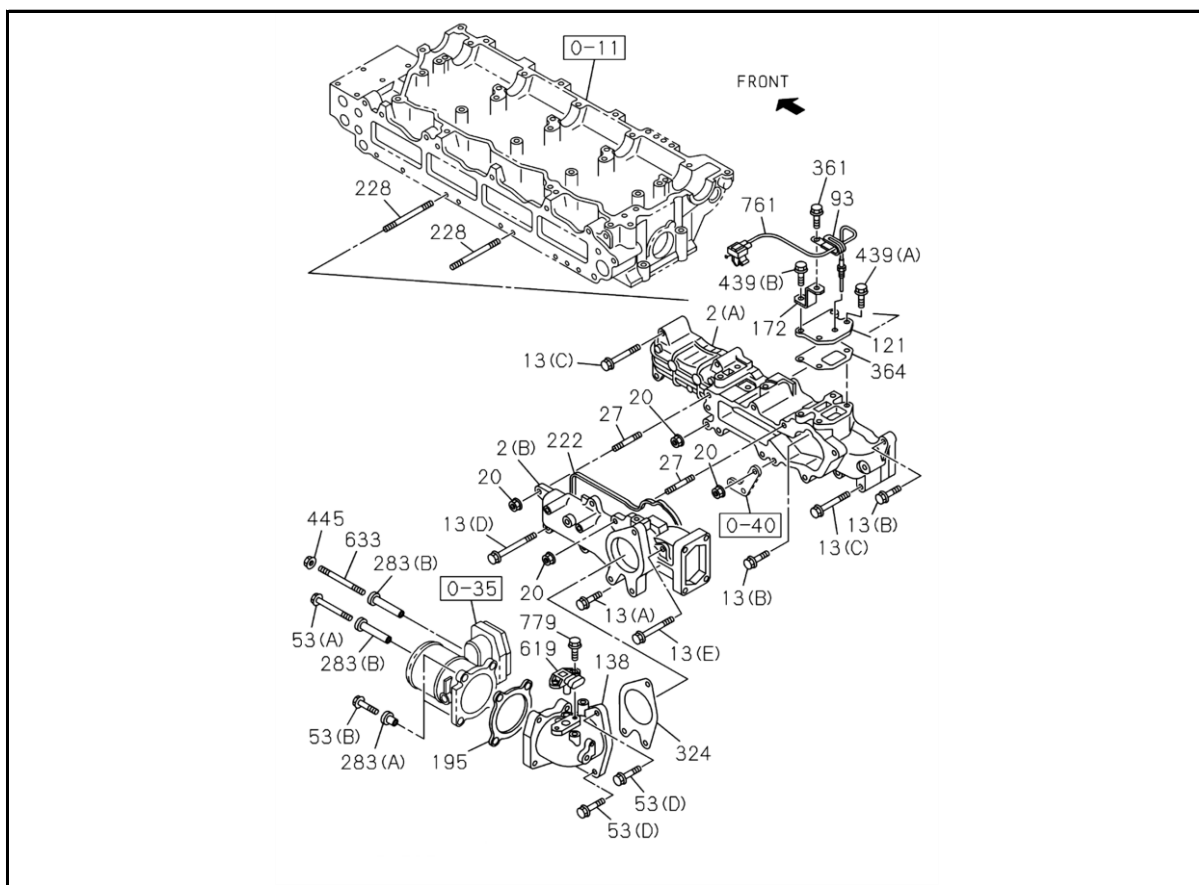
(No.2)



0-20 TIMING GEAR CASE AND FLYWHEEL HOUSING

KEY No.	Part no.	qty	Part description	Engine serial no.
2 (B)	8-98074-612-0	1	HOUSING; FLYWHEEL	
62 (A)	0-28650-835-0	12	BOLT; COVER M8X35 FLANGE	
62 (B)	1-09044-072-1	2	BOLT; COVER M8X65 FLANGE	
62 (C)	0-28050-816-0	2	BOLT; COVER M8X16 FLANGE	
100 (A)	8-97028-748-1	1	GASKET; FRT COVER ALSO INCLUDED IN GASKET SET(ENGINE)ID=35.1	
100 (B)	9-09561-318-0	1	GASKET; FRT COVER ALSO INCLUDED IN GASKET SET(ENGINE)ID=17.8	
103	8-97382-955-0	1	SEAL; OIL,CR/SHF,FRT ALSO INCLUDED IN GASKET SET(ENGINE)	
175	8-97209-342-3	1	SEAL; OIL,CR/SHF,RR ALSO INCLUDED IN GASKET SET(ENGINE)	
211 (A)	0-28751-040-0	1	BOLT; HSG M10X40 FLANGE	
211 (B)	8-97114-779-0	11	BOLT; HSG M12X70 FLANGE	
211 (C)	8-97135-419-0	1	BOLT; HSG M12X30 FLANGE	
224	0-44011-230-0	2	STUD; STARTER M12X30 L=48	
225	0-41010-818-0	2	STUD; OIL PAN M8X18 L=30	
268	8-98203-895-0	1	COVER; FRT	
297 (B)	1-09630-082-0	1	GASKET; PLUG,HSG ALSO INCLUDED IN GASKET SET(ENGINE)ID=8.2 OD=13.2	
356	8-94370-663-0	1	GASKET; COVER ALSO INCLUDED IN GASKET SET(ENGINE)	
478	8-94174-529-0	1	COVER; FLYWHEEL HSG	
480 (B)	0-28080-814-0	3	BOLT; COVER M8X14 FLANGE	
487	8-97220-740-0	2	COVER; HOLE	
656	8-98319-376-0	1	SWITCH; AIR PRESSURE	
657	8-98327-490-0	1	ADAPTER; SWITCH	

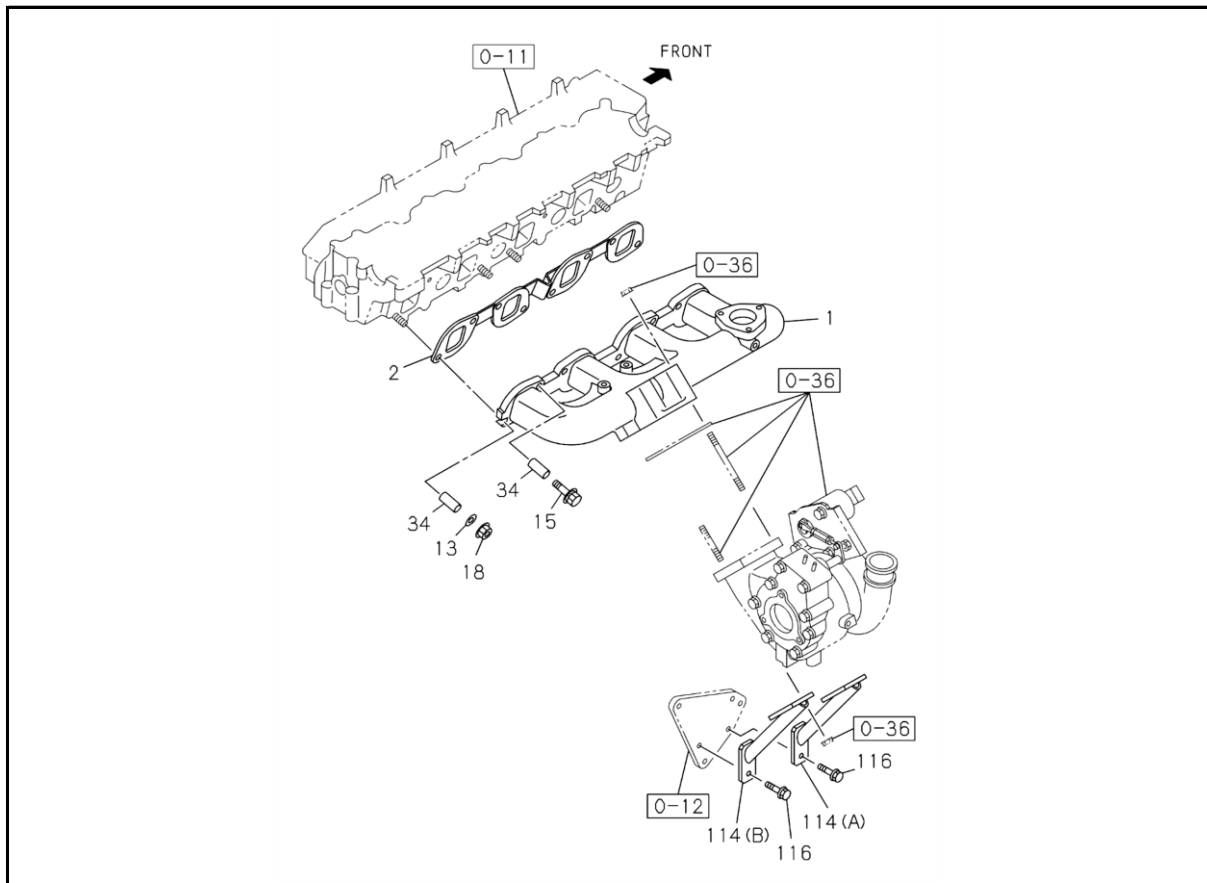
0-25 INLET MANIFOLD



KEY No.	Part no.	qty	Part description	Engine serial no.
2 (A)	8-98115-667-2	1	COVER; INL	
2 (B)	8-98236-568-0	1	COVER; INL	
13 (A)	0-28050-825-0	1	BOLT; INL MANIF M8X25 FLANGE	
13 (B)	0-28050-830-0	2	BOLT; INL MANIF M8X30 FLANGE	
13 (C)	0-28050-860-0	5	BOLT; INL MANIF M8X60 FLANGE	
13 (D)	0-28055-812-0	3	BOLT; INL MANIF M8X120 FLANGE	
13 (E)	8-98081-507-0	1	BOLT; INL MANIF M8X66 FLANGE	
20	0-91180-108-0	4	NUT; INL MANIF M8 FLANGE	
27	0-41010-825-0	2	STUD; INL MANIF M8X25 L=37	
53 (A)	0-28050-870-0	1	BOLT; INL PIPE M8X70 FLANGE	
53 (B)	0-28650-830-0	2	BOLT; INL PIPE M8X30 FLANGE	
53 (D)	0-28650-835-0	3	BOLT; INL PIPE M8X35 FLANGE	
93	8-97367-985-1	1	CLIP; HARNESS ID=18 L=44	
121	8-98164-661-0	1	BRACKET	
138	8-98236-572-0	1	PIPE; INL	
172	1-47478-113-0	1	BRACKET; HARNESS	

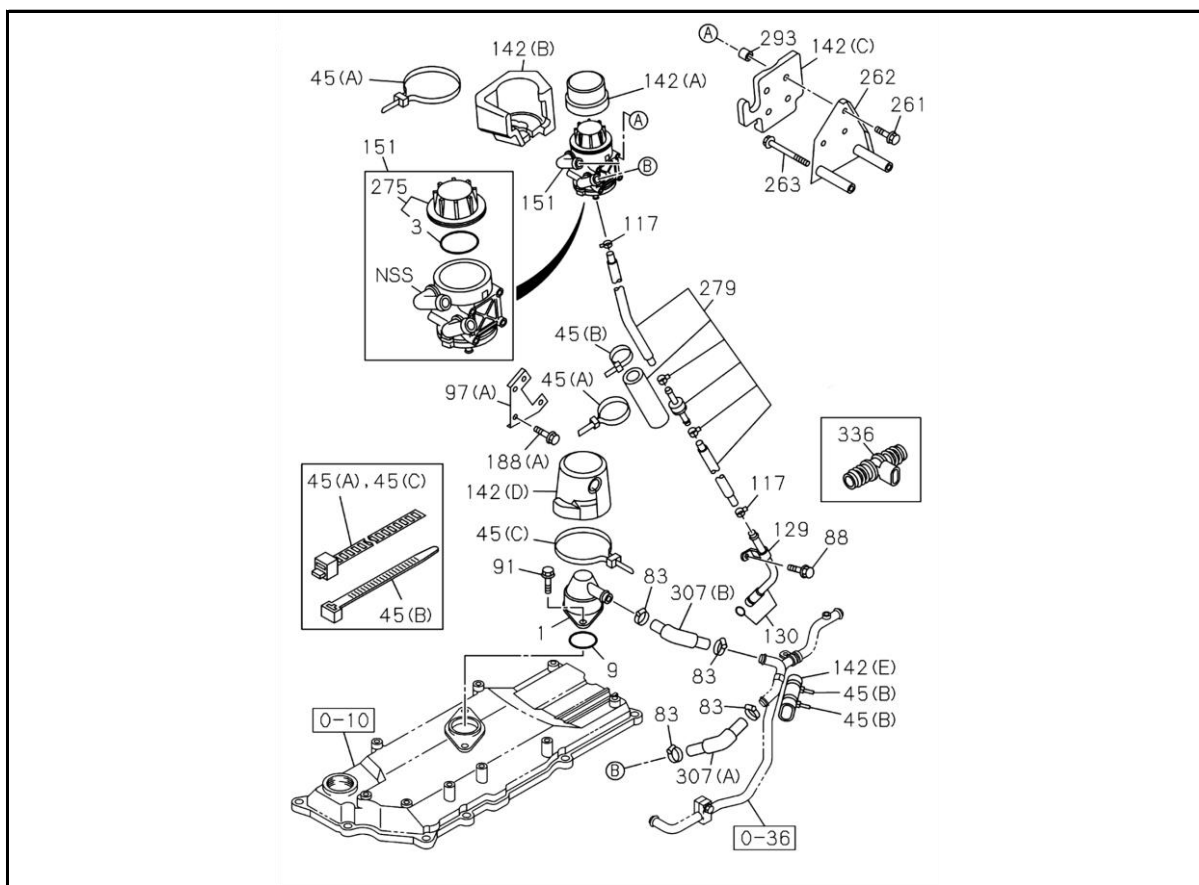
KEY No.	Part no.	qty	Part description	Engine serial no.
195	8-97387-009-0	1	GASKET; THROTTLE BODY INJECTOR ALSO INCLUDED IN GASKET SET(ENG & HEAD)ID=88	
222	8-98032-611-0	1	GASKET; INL COVER ALSO INCLUDED IN GASKET SET(ENG & HEAD)	
228	8-97111-477-0	2	STUD; INL COVER M8X117 L=128	
283 (A)	8-97219-650-0	2	RUBBER L=18	
283 (B)	8-97387-995-1	2	RUBBER L=58	
324	8-97306-025-1	1	GASKET; INL PIPE TO INL CVR ALSO INCLUDED IN GASKET SET(ENGINE)	
361	0-28050-816-0	1	BOLT; CLIP M8X16 FLANGE	
364	8-97378-814-0	1	GASKET ALSO INCLUDED IN GASKET SET(ENGINE)	
439 (A)	0-28050-816-0	3	BOLT; BRKT TO INL MANIF M8X16 FLANGE	
439 (B)	0-28050-820-0	1	BOLT; BRKT TO INL MANIF M8X20 FLANGE	
445	0-91180-108-0	1	NUT; THROTTLE BODY TO MANIF M8 FLANGE	
619	8-98121-697-1	1	SENSOR; MAP	
633	8-98017-063-0	1	STUD; THROTTLE BODY M8X71 L=83	
761	8-97381-182-0	1	SENSOR; MANIF	
779	0-28050-612-0	2	BOLT; SENSOR M6X12 FLANGE	

0-27 EXHAUST MANIFOLD



KEY No.	Part no.	qty	Part description	Engine serial no.
1	8-98113-977-1	1	MANIFOLD; EXHAUST	
2	8-97146-499-2	1	GASKET; EXH MANIF TO HD ALSO INCLUDED IN GASKET SET(ENG & HEAD)	
13	1-09556-015-0	2	WASHER; LK,EXH MANIF T=2.2	
15	8-97061-543-0	6	BOLT; EXH MANIF M10X60	
18	0-91110-510-0	2	NUT; EXH MANIF	
34	8-97250-073-1	8	COLLAR; DIST,EXH MANIF L=28	
114 (A)	8-98165-175-1	1	STAY; EXH MANIF	
114 (B)	8-98165-176-1	1	STAY; EXH MANIF	
116	0-28151-020-0	2	BOLT; STAY,EXH MANIF M10X20 FLANGE	

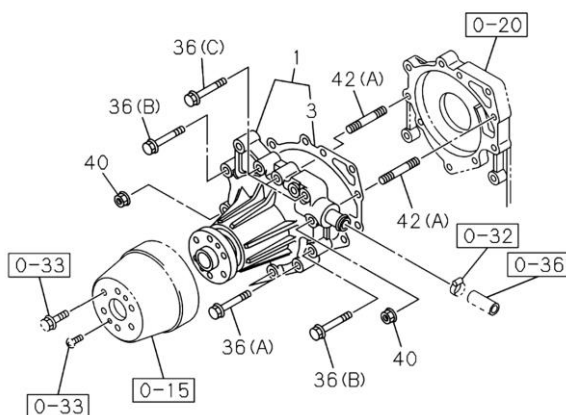
0-28 VENTILATION SYSTEM



KEY No.	Part no.	qty	Part description	Engine serial no.
1	1-11740-181-1	1	BREATHER; AIR	
3	8-97385-921-0	1	GASKET; BODY TO CAP	
9	1-09623-565-0	1	GASKET; AIR BREATHER ALSO INCLUDED IN GASKET SET(ENGINE)ID=59.6	
45 (A)	1-09707-190-0	4	CLIP; PCV HOSE L=700	
45 (B)	8-94151-373-0	3	CLIP; PCV HOSE L=300	
45 (C)	8-98216-422-0	1	CLIP; PCV HOSE L=500	
83	1-09707-132-0	4	CLIP; VENTILATOR PIPE ID=26-41.5	
88	0-28151-016-0	1	BOLT; CLIP M10X16 FLANGE	
91	0-28151-020-0	2	BOLT; AIR BREATHER M10X20 FLANGE	
97 (A)	8-97375-942-0	1	BRACKET; HOSE	
117	8-97015-754-1	2	CLIP; DRAIN HOSE ID=13.5	
129	1-09700-519-0	1	CLIP; PCV ID=10 H=25 L=20	
130	8-98062-715-0	1	PIPE; PCV	
142 (A)	8-98046-874-0	1	COVER; PCV	
142 (B)	8-98202-590-0	1	COVER; PCV	
142 (C)	8-98308-540-0	1	COVER; PCV	
142 (D)	8-98074-852-0	1	COVER; PCV	
142 (E)	8-98309-384-0	1	COVER; PCV	

KEY No.	Part no.	qty	Part description	Engine serial no.
151	8-98039-449-0	1	SEPARATOR; OIL,PCV	
188 (A)	0-28050-812-0	2	BOLT; BRKT M8X12 FLANGE	
261	0-28050-830-0	3	BOLT; SEPARATOR M8X30 FLANGE	
262	8-98300-045-0	1	BRACKET; OIL SEPARATOR	
263	0-28166-015-0	2	BOLT; BRKT,OIL SEPARATOR M10X150 FLANGE	
275	8-97389-360-0	1	CAP; PCV	
279	8-98300-043-0	1	HOSE; RUBBER,OIL DRAIN	
293	8-94387-658-1	3	SPACER; PCV	
307 (A)	8-98302-094-0	1	HOSE; RUBBER,HEAD COVER TO OIL SEPARATOR	
307 (B)	8-98302-095-2	1	HOSE; RUBBER,HEAD COVER TO OIL SEPARATOR	
336	8-98192-467-0	1	HEATER; PCV	

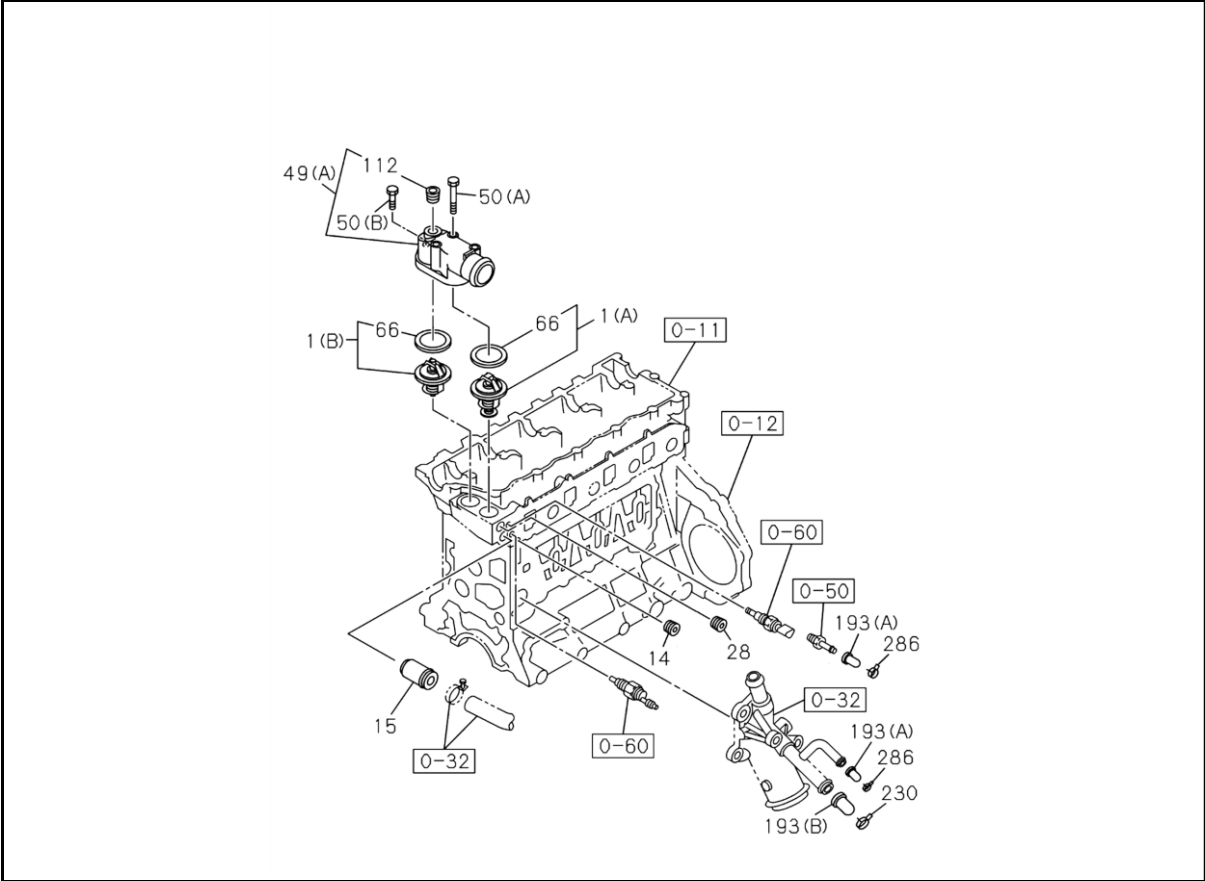
0-30 WATER PUMP AND CORROSION RESISTOR



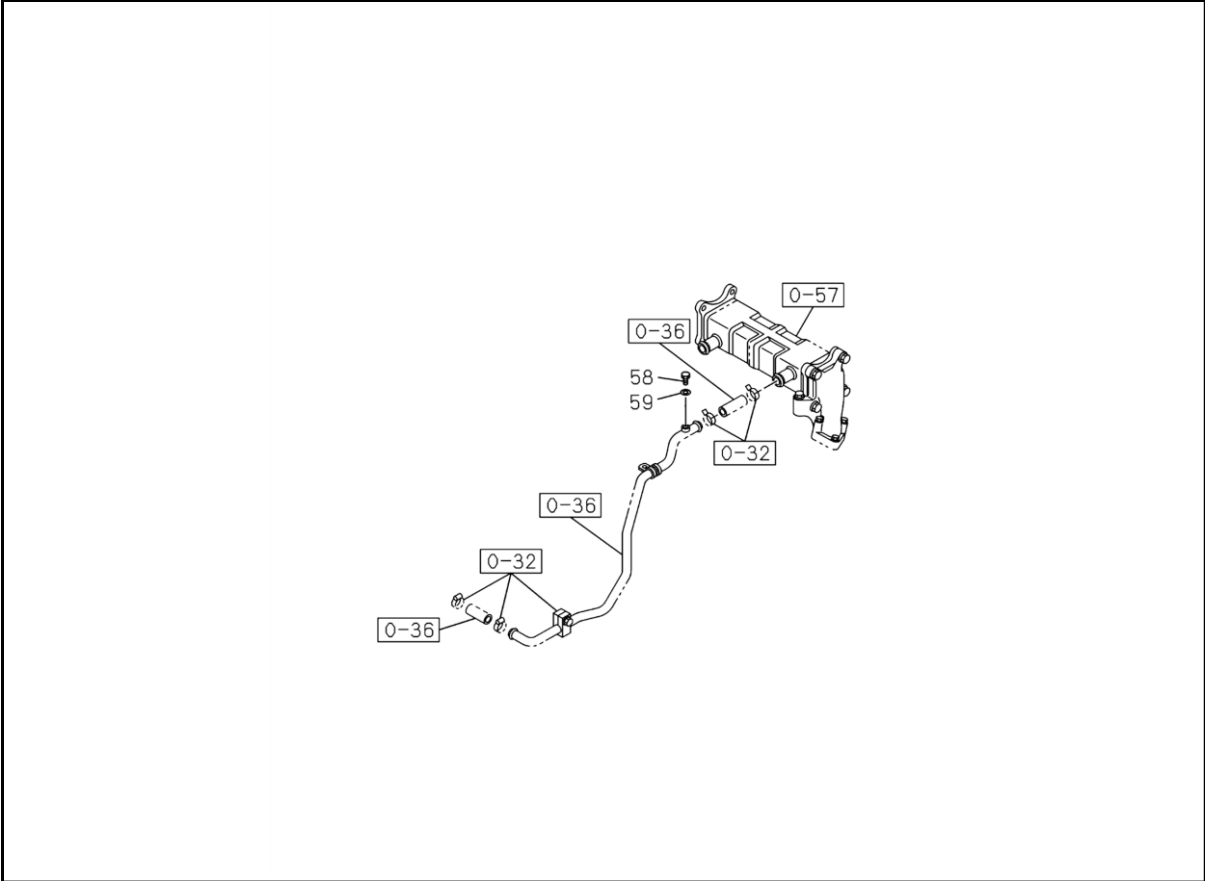
KEY No.	Part no.	qty	Part description	Engine serial no.
1	5-87311-109-1	1	PUMP ASM; WATER,W/GASKET	
3	8-98114-800-1	1	GASKET; PUMP TO C/BL ALSO INCLUDED IN GASKET SET(ENGINE)	
36 (A)	8-94458-473-1	2	BOLT; WATER PUMP TO C/BL M8X48 FLANGE	
36 (B)	0-28060-870-0	3	BOLT; WATER PUMP TO C/BL M8X70 FLANGE	
36 (C)	0-28151-070-0	3	BOLT; WATER PUMP TO C/BL M10X70 FLANGE	
40	0-91180-108-0	2	NUT; WATER PUMP M8 FLANGE	
42 (A)	8-98017-063-0	2	STUD; WATER PUMP M8X71 L=83	

0-31 THERMOSTAT AND HOUSING

(No.1)



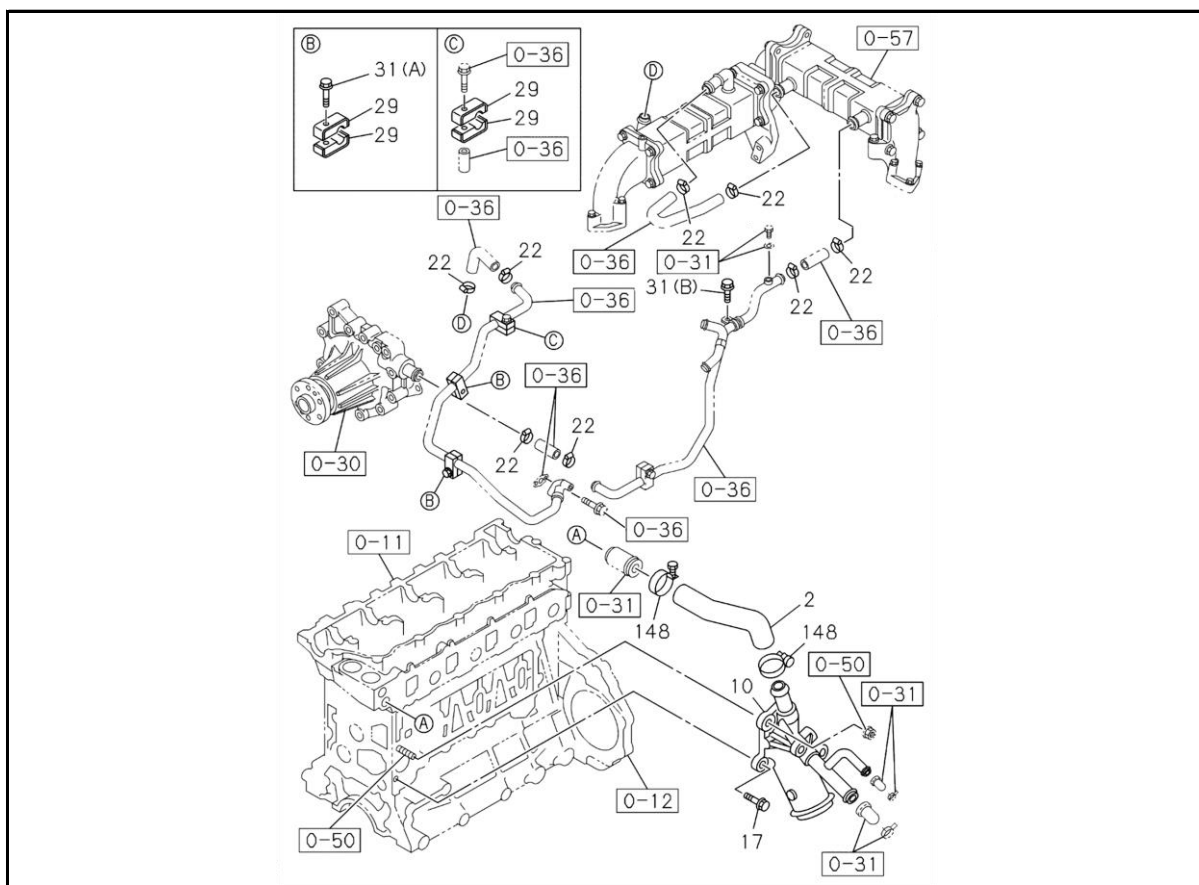
(No.2)



0-31 THERMOSTAT AND HOUSING

KEY No.	Part no.	qty	Part description	Engine serial no.
1 (A)	8-97300-790-3	1	THERMOSTAT 82 CELSIUS	
1 (B)	8-97300-787-3	1	THERMOSTAT 85 CELSIUS	
14	5-09605-005-0	1	PLUG; SW PT3/8 T=12	
15	8-94342-574-0	1	PIPE; BYPASS	
28	5-09605-005-0	1	PLUG; HTR PT3/8 T=12	
49 (A)	8-94390-520-1	1	PIPE; WATER OUTLET	
50 (A)	0-28050-880-0	3	BOLT; OUTLET PIPE M8X80 FLANGE	
50 (B)	0-28650-825-0	1	BOLT; OUTLET PIPE M8X25 FLANGE	
58	8-98072-712-0	1	PLUG; WATER OUTLET PIPE	
59	9-09571-410-0	1	GASKET; PLUG ALSO INCLUDED IN GASKET SET(ENGINE)ID=10.2 OD=16.0	
66	8-98280-281-0	2	GASKET; THERMOSTAT HSG ALSO INCLUDED IN GASKET SET(ENG & HEAD)	
112	8-94390-527-0	1	PLUG	
193 (A)	8-94249-289-0	2	CAP; RUBBER ID=12 L=30	
193 (B)	8-94107-793-0	1	CAP; RUBBER ID=16.5 L=31	
230	8-94125-862-1	1	CLIP; CAP,HEATER PIPE ID=20.8	
286	8-94122-679-0	2	CLIP; HOSE ID=17	

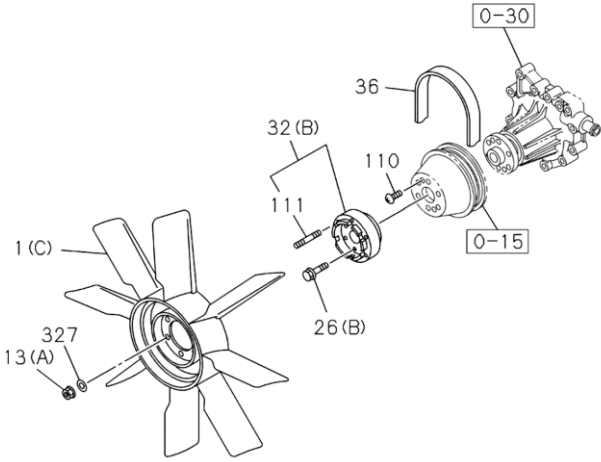
0-32 WATER PIPING; ENGINE



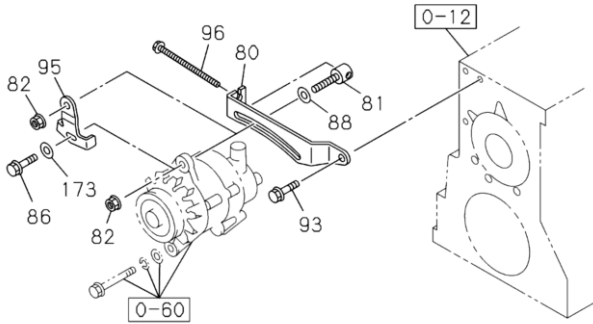
KEY No.	Part no.	qty	Part description	Engine serial no.
2	8-97209-949-1	1	HOSE; WATER,BY-PASS	
10	8-98237-337-0	1	PIPE; SUCTION	
17	8-94458-473-1	1	BOLT; SUCTION PIPE M8X48 FLANGE	
22	1-09707-132-0	8	CLIP; WATER HOSE ID=26-41.5	
29	8-97603-362-1	8	CLIP; PIPE	
31 (A)	0-28050-850-0	3	BOLT; CLIP M8X50 FLANGE	
31 (B)	0-28050-812-0	1	BOLT; CLIP M8X12 FLANGE	
148	9-09915-315-1	2	CLIP; BYPASS HOSE ID=30	

0-33 FAN AND FAN BELT

(No.1)



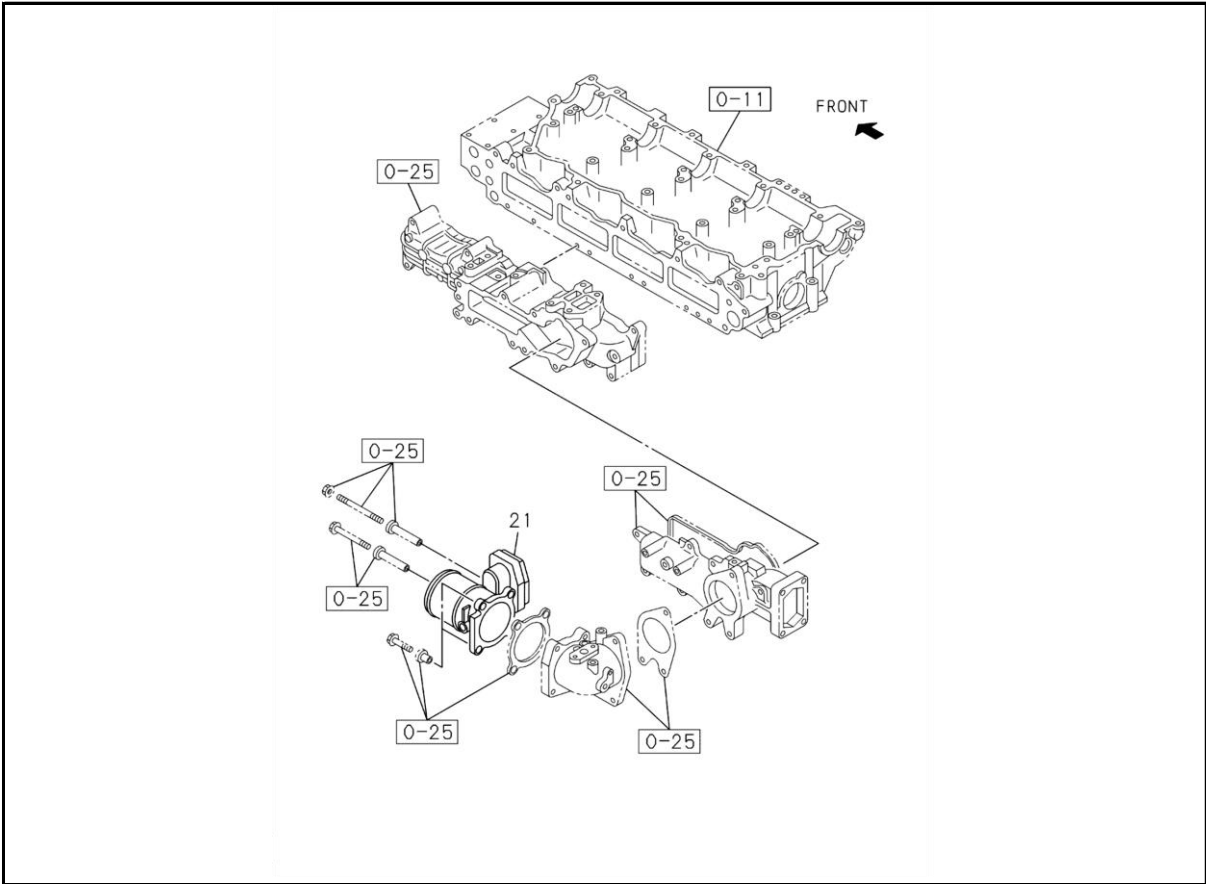
(No.2)



0-33 FAN AND FAN BELT

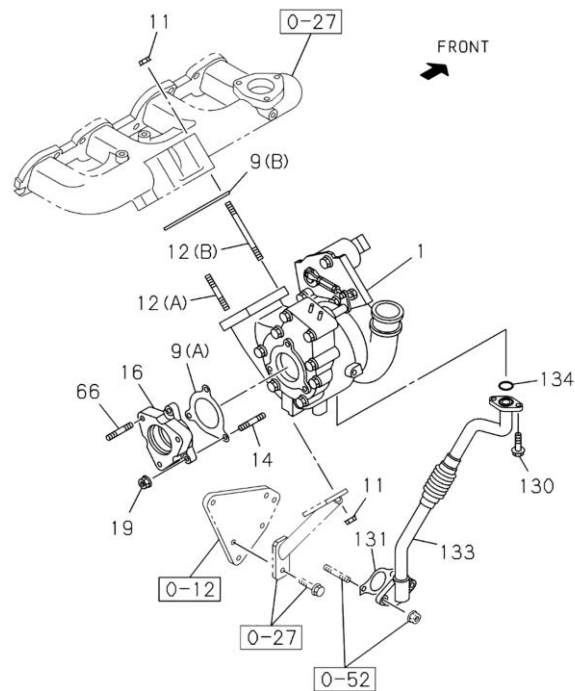
KEY No.	Part no.	qty	Part description	Engine serial no.
1 (C)	1-13660-156-1	1	FAN; COOLING 8 BLADE OD=650	
13 (A)	0-91180-110-0	6	NUT; COOLING FAN M10 FLANGE	
26 (B)	8-98035-672-0	6	BOLT; FAN TO CLU M10X55 FLANGE	
32 (B)	8-98030-223-1	1	ADAPTER; FAN TO PULLEY	
36	1-13671-522-0	1	BELT; COOLING FAN L=1146	
80	8-97362-845-0	1	PLATE; ADJ	
81	1-13674-160-0	1	PIECE; SLIDING M12X45	
82	0-91180-112-0	1	NUT; ADJ PLATE M12 FLANGE	
86	0-28050-820-0	1	BOLT; ADJ M8X20 FLANGE	
88	0-91610-712-0	1	WASHER; PL,ADJ PLATE ID=12	
93	0-28151-020-0	1	BOLT; ADJ PLATE BRKT M10X20 FLANGE	
95	8-98210-174-0	1	BRACKET; ADJ PLATE	
96	1-09009-114-1	1	BOLT; ADJ PLATE M10X155 FLANGE	
110	9-03490-610-0	2	SCREW; PULLEY M6X10	
111	0-43211-025-0	6	STUD; FAN DRIVE M10X25 L=45	
173	0-91610-708-0	1	WASHER; ADJ BOLT ID=8.4 OD=22	
327	0-91614-710-0	6	WASHER; PL,FAN	

0-35 ENGINE CONTROL VALVE AND LEVER

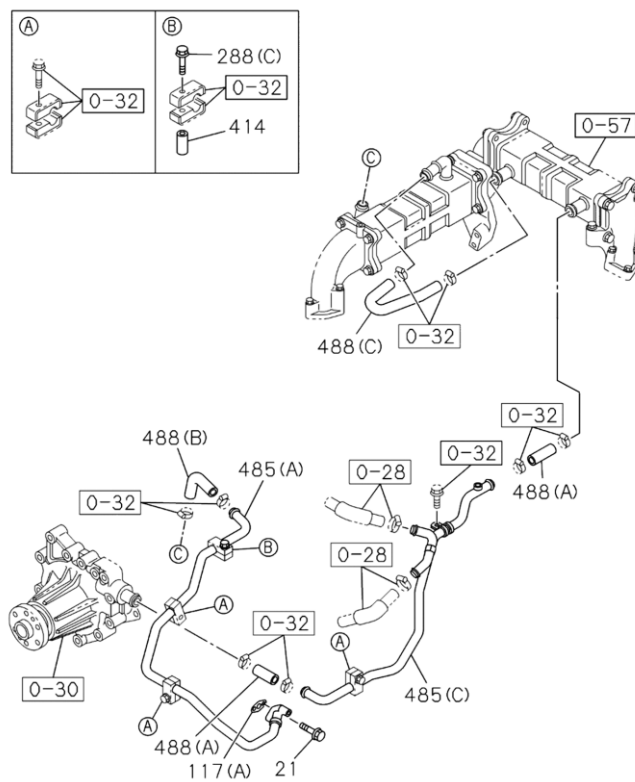


KEY No.	Part no.	qty	Part description	Engine serial no.
21	8-98100-899-4	1	VALVE ASM; THROTTLE	

(No.1)

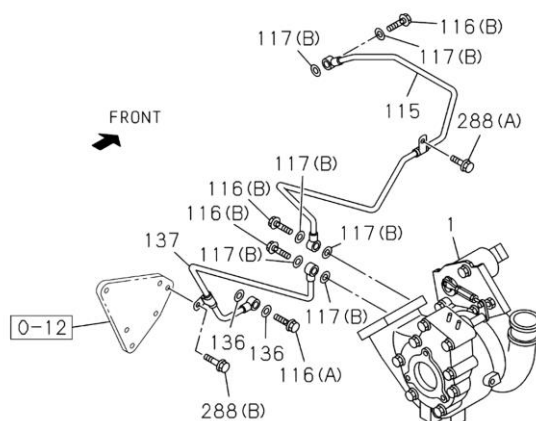


(No.2)



0-36 TURBOCHARGER SYSTEM

(No.3)

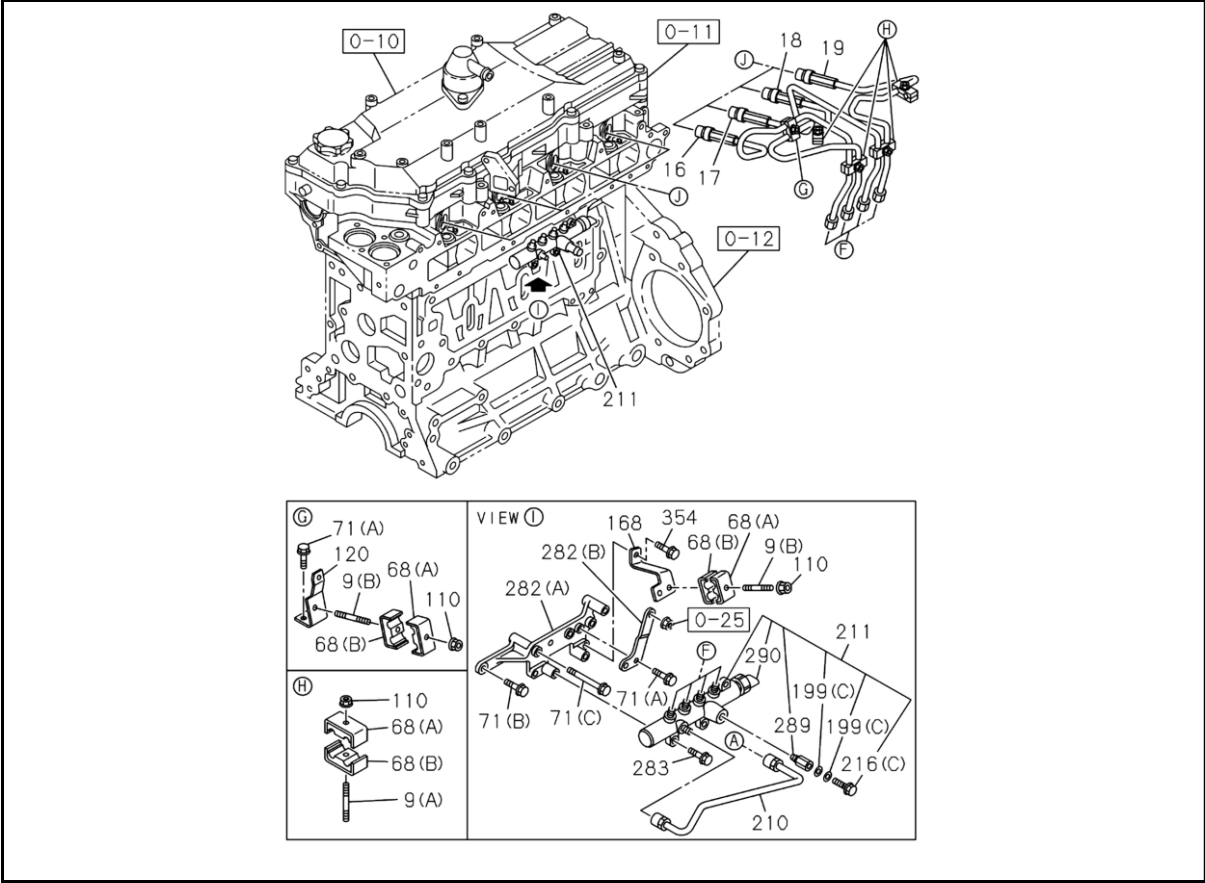


KEY No.	Part no.	qty	Part description	Engine serial no.
1	8-98368-654-1	1	TURBOCHARGER ASM	
9 (A)	8-97376-758-0	1	GASKET; TURBOCHARGER TO EXH DUCT ALSO INCLUDED IN GASKET SET(ENG & HEAD)ID=54	
9 (B)	8-98046-241-0	1	GASKET; TURBOCHARGER TO EXH DUCT ALSO INCLUDED IN GASKET SET(ENG & HEAD)ID=49	
11	8-97381-617-0	4	NUT; TURBOCHARGER M10 FLANGE	
12 (A)	8-97307-075-2	2	STUD; TURBOCHARGER M10X33 L=48	
12 (B)	8-98048-446-0	2	STUD; TURBOCHARGER M10X70 L=83	
14	9-04130-825-0	3	STUD; TURBOCHARGER TO EXH PIPE	
16	8-98237-349-0	1	ADAPTER; EXH PIPE	
19	8-97061-401-1	3	NUT; EXH PIPE,TURBOCHARGER M8 FLANGE	
21	0-28050-850-0	2	BOLT; PIPE M8X50 FLANGE	
66	9-04130-825-0	3	STUD; EXH PIPE	
115	8-98151-915-0	1	PIPE; WATER,TURBOCHARGER OUT	
116 (A)	8-94455-144-0	1	BOLT; WATER PIPE M14X30 EYE-BOLT	
116 (B)	8-94436-933-0	3	BOLT; WATER PIPE M12X28 FLANGE	

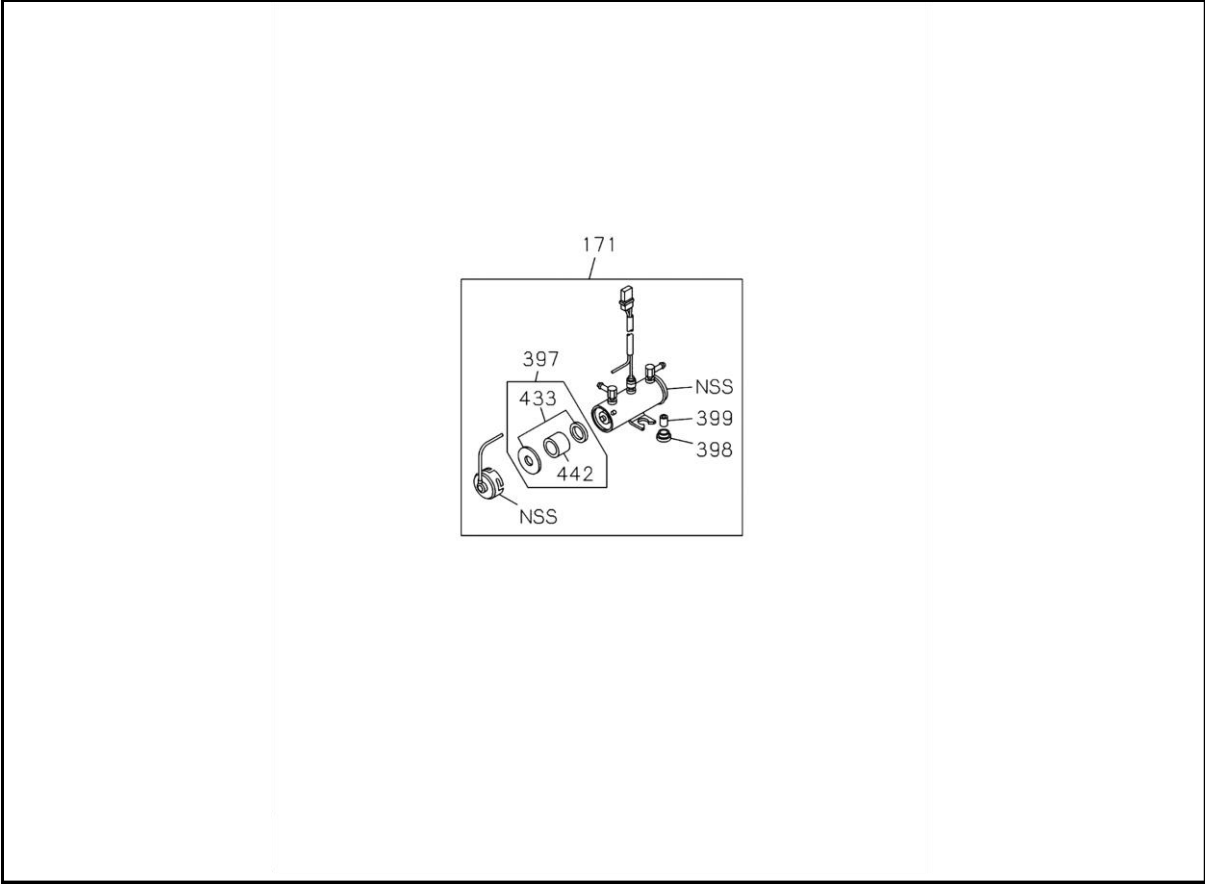
KEY No.	Part no.	qty	Part description	Engine serial no.
117 (A)	8-98096-166-0	1	GASKET; WATER PIPE ALSO INCLUDED IN GASKET SET(ENGINE)ID=23.2	
117 (B)	9-09571-412-0	6	GASKET; WATER PIPE ALSO INCLUDED IN GASKET SET(ENGINE)ID=12.2	
130	0-50540-616-0	2	BOLT; OIL PIPE TO TURBOCHARGER DRAIN M6X16 W/LK WASHER	
131	8-94394-671-0	1	GASKET; OIL PIPE,C/BL ALSO INCLUDED IN GASKET SET(ENGINE)	
133	8-98114-803-0	1	PIPE; OIL DRAIN,TURBOCHARGER	
134	1-09623-462-0	1	GASKET; OIL PIPE,TURBOCHARGER DRAIN ALSO INCLUDED IN GASKET SET(ENGINE)ID=22.8	
136	8-98251-345-0	2	GASKET; WATER PIPE ALSO INCLUDED IN GASKET SET(ENGINE)ID=14.2 OD=19.2	
137	8-98114-804-1	1	PIPE; WATER,TURBOCHARGER IN	
288 (A)	0-28050-812-0	1	BOLT; WATER PIPE CLIP M8X12 FLANGE	
288 (B)	0-28050-825-0	1	BOLT; WATER PIPE CLIP M8X25 FLANGE	
288 (C)	0-28050-800-0	1	BOLT; WATER PIPE CLIP M8X100 FLANGE	
414	1-11369-157-0	1	SPACER L=51	
485 (A)	8-98123-246-1	1	PIPE; WATER EGR	
485 (C)	8-98302-090-0	1	PIPE; WATER EGR	
488 (A)	0-03574-300-0	2	HOSE; RUBBER L=80 S.B. L=3000	
488 (B)	8-98126-186-0	1	HOSE; RUBBER	
488 (C)	8-98126-187-0	1	HOSE; RUBBER	

0-40 FUEL INJECTION SYSTEM

(No.3)



(No.4)

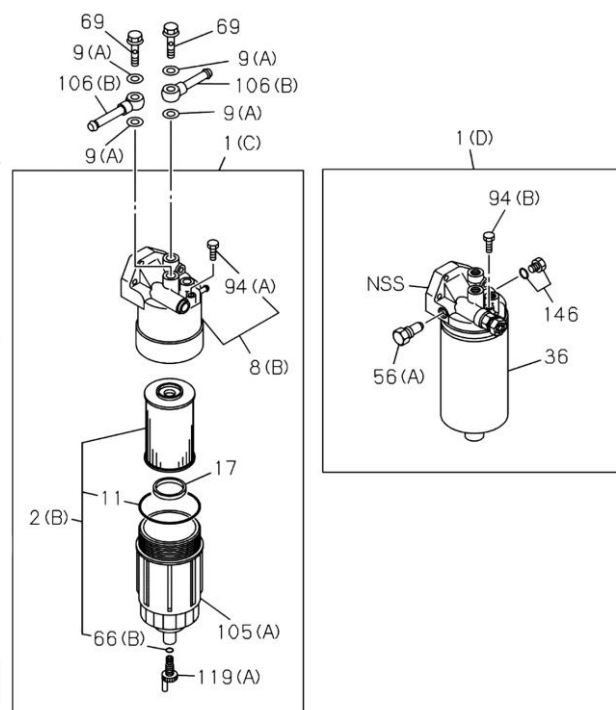


0-40 FUEL INJECTION SYSTEM

KEY No.	Part no.	qty	Part description	Engine serial no.
1 (B)	8-98298-599-1	1	PUMP ASM; INJ	
2 (A)	0-28151-050-0	1	BOLT; INJ PUMP M10X50 FLANGE	
2 (B)	0-28151-200-0	1	BOLT; INJ PUMP M12X100 FLANGE	
2 (C)	0-28151-260-0	1	BOLT; INJ PUMP M12X60 FLANGE	
4	0-91614-512-0	1	WASHER; INJ PUMP	
9 (A)	0-41010-630-0	4	STUD; CLIP M6X30 L=38	
9 (B)	8-97203-278-0	2	STUD; CLIP M6X35 L=43	
16	8-98237-350-0	1	PIPE; INJ NO.1	
17	8-98237-351-0	1	PIPE; INJ NO.2	
18	8-98237-352-0	1	PIPE; INJ NO.3	
19	8-98237-353-0	1	PIPE; INJ NO.4	
31	8-98238-463-1	4	NOZZLE ASM; INJ	
36	8-98065-992-0	4	GASKET; RETURN PIPE,NOZZLE HOLDER ALSO INCLUDED IN GASKET SET(ENG & HEAD)ID=8.3	
61	8-98008-895-0	4	BOLT; CLAMP NOZZLE HOLDER	
63	8-97306-081-0	1	PIPE; FUEL,NOZZLE LEAK OFF	
66 (A)	8-98079-248-0	4	GASKET; INJ NOZZLE ALSO INCLUDED IN GASKET SET(ENG & HEAD)ID=9.2 T=8.1	
66 (B)	8-94173-412-0	4	GASKET; INJ NOZZLE ALSO INCLUDED IN GASKET SET(ENG & HEAD)ID=23.3	
68 (A)	8-97330-118-3	6	CLIP; INJ PIPE	
68 (B)	8-97330-119-3	6	CLIP; INJ PIPE	
71 (A)	0-28050-816-0	3	BOLT; BRKT M8X16 FLANGE	
71 (B)	0-28050-825-0	1	BOLT; BRKT M8X25 FLANGE	
71 (C)	0-28050-860-0	2	BOLT; BRKT M8X60 FLANGE	
71 (D)	0-28050-612-0	1	BOLT; BRKT M6X12 FLANGE	
80	8-98236-583-0	1	BRACKET; PUMP	
87	0-28650-830-0	3	BOLT; PUMP M8X30 FLANGE	
94	8-98028-999-1	4	BRACKET; INJ NOZZLE	
110	0-91180-106-0	6	NUT; CLIP M6 FLANGE	
120	8-98001-041-0	1	BRACKET; INJ PIPE	
124	1-09675-037-1	4	BOLT; EYE LEAK OFF PIPE M8X18 EYE-BOLT	
154	0-95690-111-0	4	GASKET; CONNECTOR ALSO INCLUDED IN GASKET SET(ENG & HEAD)ID=11	
158 (A)	0-91180-110-0	2	NUT; INJ PUMP M10 FLANGE	
158 (C)	0-91180-214-0	1	NUT; INJ PUMP M14 FLANGE	

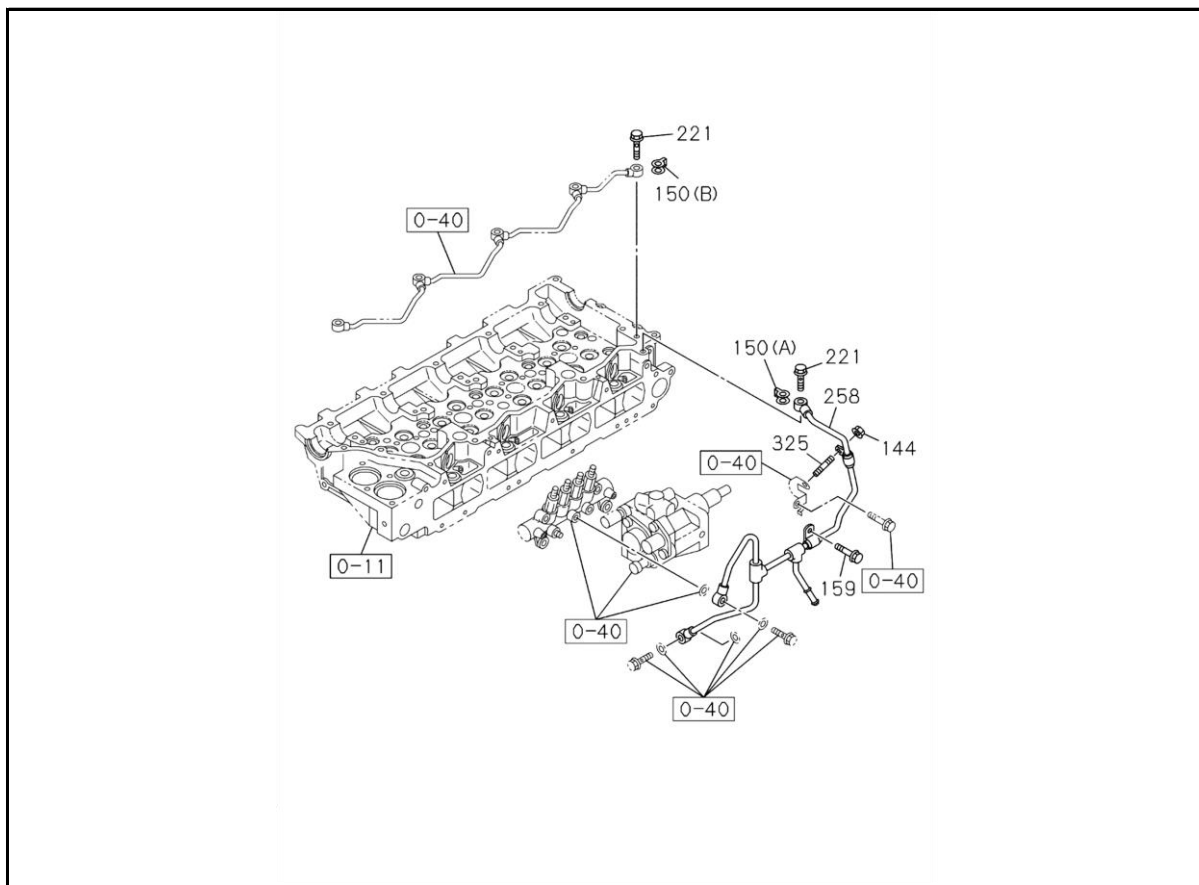
161	8-97363-237-0	2	STUD; INJ PUMP M10X46.5 L=58.5	
168	8-98237-356-0	1	BRACKET; FUEL PIPE	
171	8-98068-275-2	1	PUMP ASM; FUEL FEED	
176	8-98011-269-0	1	BOLT; EYE,FEED PUMP M10X38 EYE-BOLT	
199 (A)	1-09630-083-0	3	GASKET; EYE BOLT ALSO INCLUDED IN GASKET SET(ENGINE)ID=10.2 OD=15.2	
199 (B)	1-15619-507-0	2	GASKET; EYE BOLT ALSO INCLUDED IN GASKET SET(ENGINE)ID=14.2	
199 (C)	8-97602-218-0	4	GASKET; EYE BOLT ALSO INCLUDED IN GASKET SET(ENGINE)	
199 (D)	8-98251-345-0	3	GASKET; EYE BOLT ALSO INCLUDED IN GASKET SET(ENGINE)ID=14.2 OD=19.2	
200	8-98008-789-1	1	PIPE; FUEL FEED	
205	8-98023-581-0	1	SENSOR; FUEL TEMP	
210	8-98237-354-0	1	PIPE; INJ,C/R	
211	8-98244-669-0	1	RAIL ASM; COMMON	
216 (A)	5-15759-003-0	1	BOLT; EYE M14X26 EYE-BOLT	
216 (C)	8-98035-828-0	1	BOLT; EYE M10X19 EYE-BOLT	
216 (D)	8-97351-388-0	1	BOLT; EYE	
219	8-98031-844-0	1	GASKET ALSO INCLUDED IN GASKET SET(ENGINE)	
226	8-98126-332-0	1	PIPE; FUEL	
265	8-98074-955-0	1	VALVE; FEED PUMP	
282 (A)	8-98236-590-0	1	BRACKET; COMMON RAIL	
282 (B)	8-98237-348-0	1	BRACKET; COMMON RAIL	
283	0-28050-825-0	3	BOLT; COMMON RAIL M8X25 FLANGE	
289	8-98138-695-0	1	LIMITER; FUEL PRESS	
290	8-98138-736-0	1	SENSOR; PRESS	
342	8-98045-008-1	1	BRACKET; CLIP,LEAK OFF	
354	0-28050-816-0	1	BOLT; FUEL PIPE M8X16 FLANGE	
378	8-97601-698-1	1	GEAR; PUMP Z=35	
382	8-98161-995-0	1	KEY; DRIVE SHAFT	
397	8-98173-165-0	1	REPAIR KIT; FUEL PUMP MESH FILTER	
398	8-97047-266-0	2	GROMMET; FUEL PUMP	
399	8-97047-265-0	2	COLLAR; FUEL PUMP	
424	8-98145-502-1	1	OVERHAUL KIT; SUPPLY PUMP	
433	8-98071-404-0	1	GASKET KIT; FUEL PUMP	
442	8-98071-401-0	1	FILTER; FUEL PUMP	

0-41 FUEL FILTER AND BRACKET



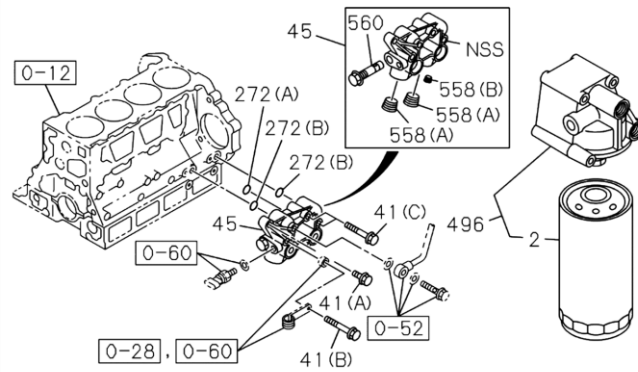
KEY No.	Part no.	qty	Part description	Engine serial no.
1 (C)	8-98075-855-5	1	FILTER ASM; FUEL	
1 (D)	8-98312-915-1	1	FILTER ASM; FUEL	
2 (B)	8-98074-288-2	1	ELEMENT KIT; FUEL FILTER	
8 (B)	8-98076-261-2	1	COVER; FUEL FILTER	
9 (A)	1-09630-086-0	8	GASKET; EYE JOINT ALSO INCLUDED IN GASKET SET(ENGINE)ID=16.2	
11	8-98008-842-0	1	GASKET; CASE TO BODY,FUEL FILTER	
17	8-98008-849-0	1	FLOAT; FUEL FILTER	
36	8-98312-918-0	1	ELEMENT; FUEL FILTER	
56 (A)	8-98008-847-1	1	PLUG; FUEL FILTER	
66 (B)	8-97543-528-0	1	GASKET; PLUG,FUEL FILTER	
69	1-09675-095-1	4	BOLT; EYE,FUEL FILTER M16X30 EYE-BOLT	
94 (A)	8-98008-846-1	1	VALVE; FUEL FILTER	
94 (B)	8-98367-380-0	1	VALVE; FUEL FILTER	
105 (A)	8-98074-290-1	1	CASE; FUEL FILTER	
106 (B)	8-97383-427-0	4	PIPE; FUEL	
119 (A)	8-98074-292-0	1	PLUG; DRAIN,FUEL FILTER	
146	8-98335-487-0	1	PLUG KIT; BODY	

0-42 FUEL PUMP AND PIPE

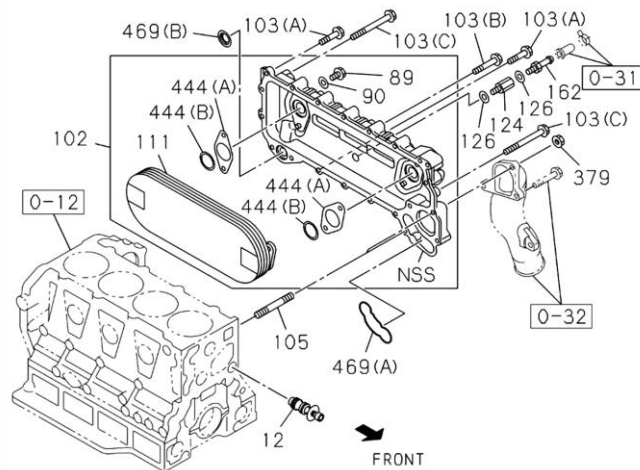


KEY No.	Part no.	qty	Part description	Engine serial no.
144	0-91180-106-0	1	NUT; CLIP M6 FLANGE	
150 (A)	8-98231-393-1	1	GASKET; FUEL PIPE ALSO INCLUDED IN GASKET SET(ENG & HEAD)ID=10.6	
150 (B)	8-98079-755-0	1	GASKET; FUEL PIPE ALSO INCLUDED IN GASKET SET(ENG & HEAD)ID=10.2 OD=17	
159	0-28050-612-0	1	BOLT; CLIP M6X12 FLANGE	
221	8-94396-711-0	2	BOLT; FUEL PIPE M10X21 EYE-BOLT	
258	8-98261-348-1	1	PIPE ASM; FUEL,LEAK OFF	
325	0-41010-612-0	1	STUD; CLIP M6X12 L=21	

(No.1)



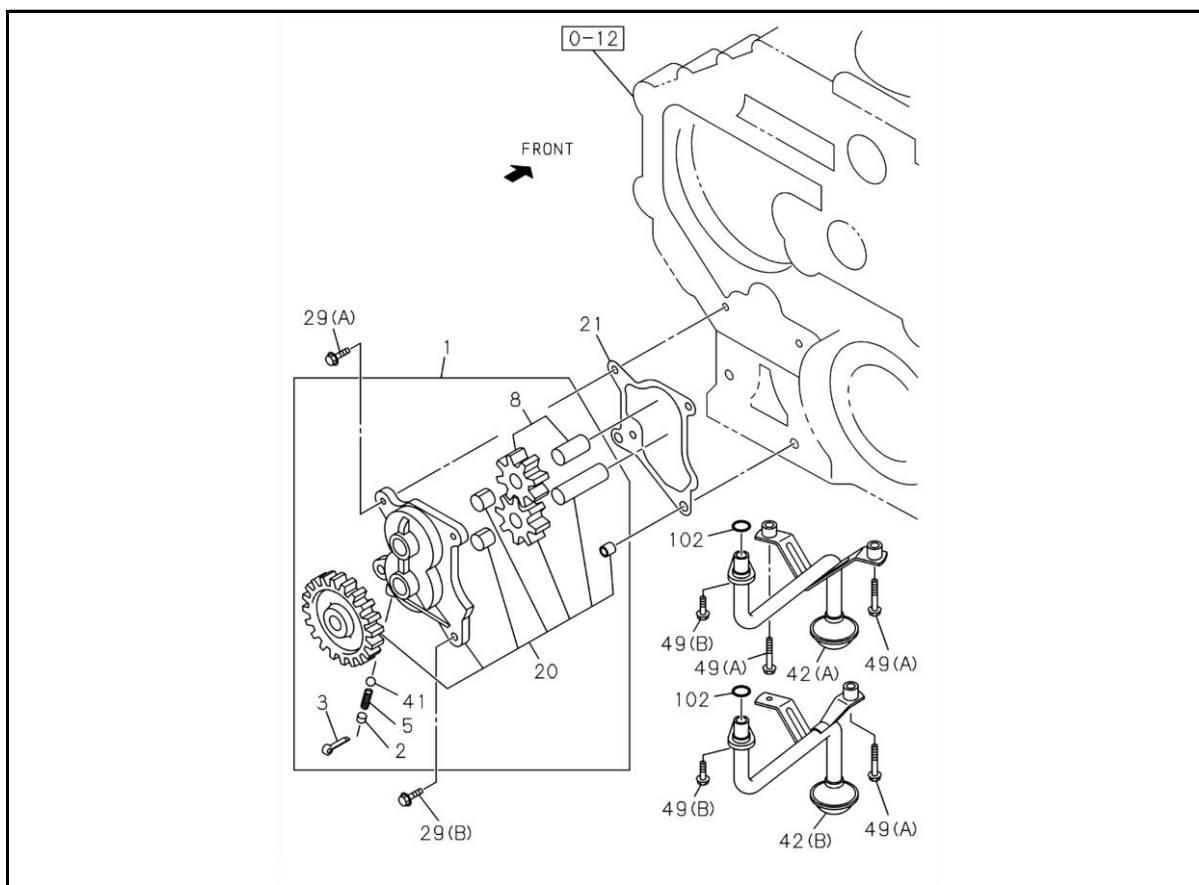
(No.2)



0-50 OIL COOLER AND OIL FILTER

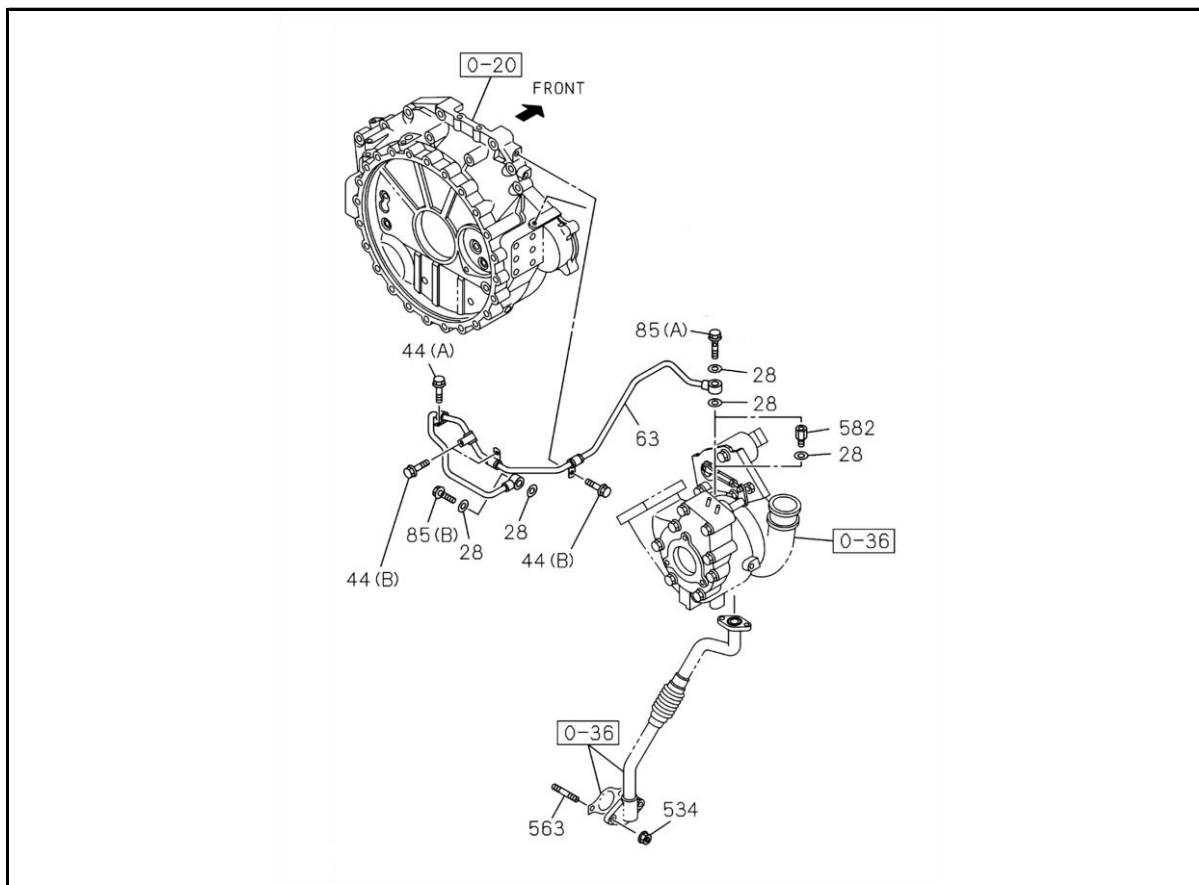
KEY No.	Part no.	qty	Part description	Engine serial no.
2	8-98375-860-0	1	ELEMENT; OIL FILTER	
12	8-97013-566-2	1	VALVE ASM; BYPASS	
41 (A)	0-28151-025-0	1	BOLT; COVER FIX M10X25 FLANGE	
41 (B)	0-28151-000-0	1	BOLT; COVER FIX M10X100 FLANGE	
41 (C)	0-28151-090-0	2	BOLT; COVER FIX M10X90 FLANGE	
45	8-98109-711-1	1	COVER; OIL PORT	
89	8-98270-444-0	4	BOLT; ELEMENT TO CASE M10X16	
90	8-98135-464-0	4	GASKET; BOLT,OIL COOLER	
102	8-98069-020-4	1	COOLER ASM; OIL	
103 (A)	0-28050-820-0	8	BOLT; OIL COOLER M8X20 FLANGE	
103 (B)	0-28050-840-0	7	BOLT; OIL COOLER M8X40 FLANGE	
103 (C)	1-09044-073-0	2	BOLT; OIL COOLER M8X75 FLANGE	
105	8-97016-314-0	2	STUD; OIL COOLER M8X52 L=63	
111	8-98122-786-0	1	CORE; OIL COOLER	
124	8-94461-965-1	1	ADAPTER; OIL COOLER	
126	1-09630-141-0	2	GASKET; ADAPTER ALSO INCLUDED IN GASKET SET(ENGINE)ID=14.2 OD=25	
162	8-98147-539-0	1	PIPE; WATER,OIL COOLER	
272 (A)	8-94399-339-0	1	GASKET; OIL FILTER TO C/BL ALSO INCLUDED IN GASKET SET(ENGINE)ID=9.8	
272 (B)	8-94399-399-0	2	GASKET; OIL FILTER TO C/BL ALSO INCLUDED IN GASKET SET(ENGINE)ID=22.1	
379	0-91180-108-0	2	NUT; OIL COOLER M8 FLANGE	
444 (A)	8-98122-783-0	2	GASKET; ELEMENT TO BODY	
444 (B)	8-98122-784-0	2	GASKET; ELEMENT TO BODY	
469 (A)	8-94338-878-1	1	GASKET; OIL COOLER TO C/BL ALSO INCLUDED IN GASKET SET(ENGINE)	
469 (B)	8-98045-447-0	1	GASKET; OIL COOLER TO C/BL ALSO INCLUDED IN GASKET SET(ENGINE)OD=30.2 W/PLATE	
496	8-98375-866-1	1	FILTER ASM; OIL	
558 (A)	1-09605-025-0	2	PLUG; COVER,OIL PORT PT 3/4	
558 (B)	1-09605-050-0	1	PLUG; COVER,OIL PORT PT 1/8	
560	1-13160-035-0	1	VALVE; RELIEF,OIL PORT COVER	

0-51 OIL PUMP AND OIL STRAINER



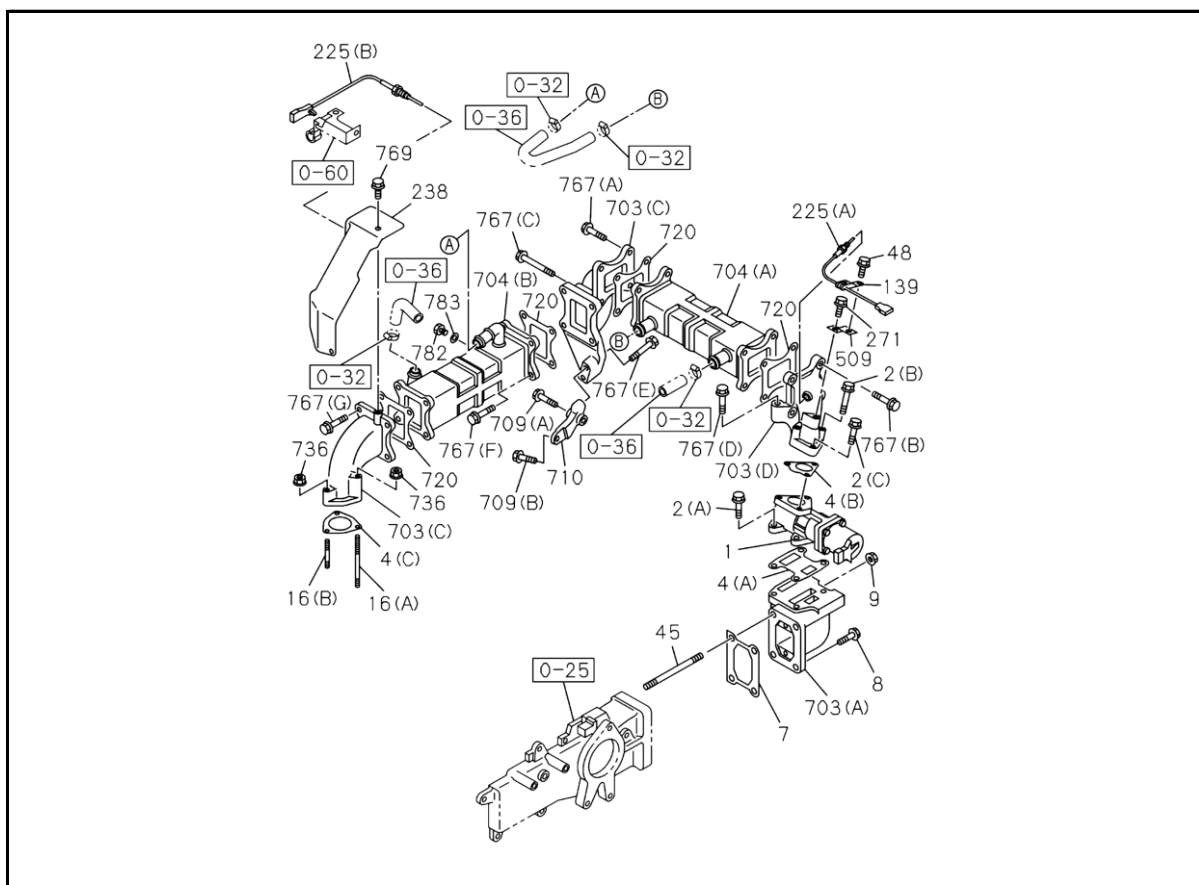
KEY No.	Part no.	qty	Part description	Engine serial no.
1	1-13100-313-3	1	PUMP ASM; OIL	
2	5-13165-004-0	1	SEAT; SPR	
3	9-08104-030-0	1	PIN; SPLIT L=30	
5	5-09580-098-0	1	SPRING; COIL	
8	8-94392-559-0	1	GEAR; DRIVEN,OIL PUMP	
20	1-13120-090-2	1	GEAR; DRIVE,OIL PUMP	
21	1-09623-685-0	1	GASKET; OIL PUMP ALSO INCLUDED IN GASKET SET(ENGINE)	
29 (A)	0-28060-825-0	2	BOLT; OIL PUMP M8X25 FLANGE	
29 (B)	0-28060-830-0	2	BOLT; OIL PUMP M8X30 FLANGE	
41	5-09843-003-0	1	BALL; OIL RELIEF VLV	
42 (A)	8-98121-876-0	1	STRAINER; OIL,OIL PUMP	
42 (B)	8-98035-323-0	1	STRAINER; OIL,OIL PUMP	
49 (A)	0-28151-000-0	2	BOLT; STRAINER,OIL PUMP M10X100 FLANGE	
49 (B)	0-28060-816-0	1	BOLT; STRAINER,OIL PUMP M8X16 FLANGE	
102	8-94399-398-0	1	GASKET; STRAINER ALSO INCLUDED IN GASKET SET(ENGINE)ID=24.5	

0-52 OIL AND VACUUM PIPING; ENGINE



KEY No.	Part no.	qty	Part description	Engine serial no.
28	9-09571-410-0	5	GASKET; OIL PIPE ALSO INCLUDED IN GASKET SET(ENGINE)ID=10.2 OD=16.0	
44 (A)	0-28050-816-0	1	BOLT; CLIP,OIL PIPE M8X16 FLANGE	
44 (B)	0-28060-812-0	2	BOLT; CLIP,OIL PIPE M8X12 FLANGE	
63	8-98334-170-0	1	PIPE; OIL,TURBOCHARGER FEED	
85 (A)	8-94107-713-2	1	BOLT; EYE,OIL PIPE FIX	
85 (B)	8-98037-823-0	1	BOLT; EYE,OIL PIPE FIX M10X28	
534	0-91180-108-0	2	NUT; OIL PIPE M8 FLANGE	
563	0-41010-820-0	2	STUD; OIL PIPE M8X20 L=32	
582	8-98334-171-0	1	ADAPTER; OIL PIPE	

0-57 EMISSION PIPING

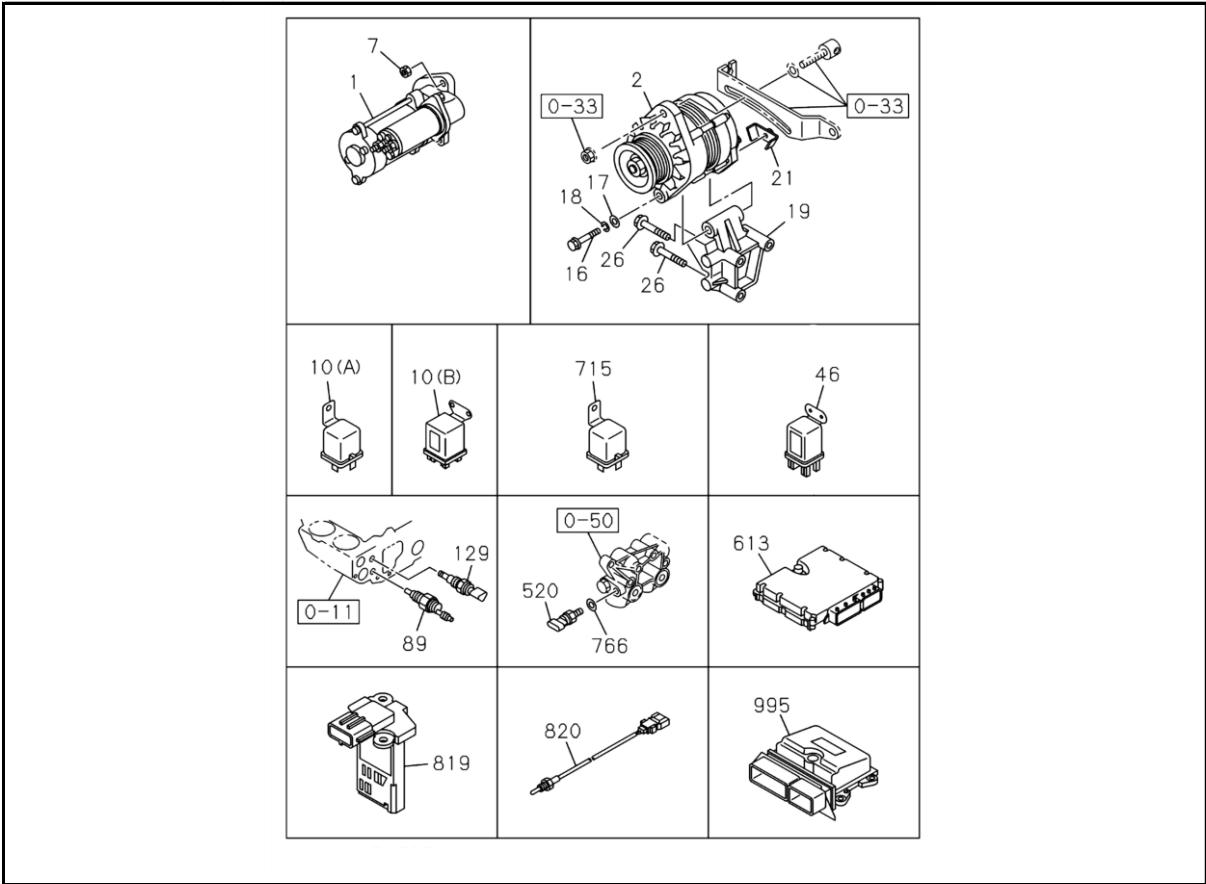


KEY No.	Part no.	qty	Part description	Engine serial no.
1	8-98302-448-2	1	VALVE; EGR	
2 (A)	0-28050-825-0	4	BOLT; EGR VLV M8X25 FLANGE	
2 (B)	0-28050-860-0	2	BOLT; EGR VLV M8X60 FLANGE	
2 (C)	0-28050-835-0	1	BOLT; EGR VLV M8X35 FLANGE	
4 (A)	8-98001-024-0	1	GASKET; EGR VLV ALSO INCLUDED IN GASKET SET(ENGINE)	
4 (B)	8-98001-023-0	1	GASKET; EGR VLV ALSO INCLUDED IN GASKET SET(ENGINE)	
4 (C)	8-98046-192-1	1	GASKET; EGR VLV ALSO INCLUDED IN GASKET SET(ENGINE)	
7	8-97374-517-0	1	GASKET; ADAPTER ALSO INCLUDED IN GASKET SET(ENGINE)	
8	0-28151-030-0	2	BOLT; EGR ADAPTER M10X30 FLANGE	
9	0-91180-110-0	2	NUT; EGR ADAPTER M10 FLANGE	
16 (A)	8-94155-869-0	1	STUD; EGR VLV M8X72 L=86	
16 (B)	8-97378-067-0	2	STUD; EGR VLV M8X43 L=54	

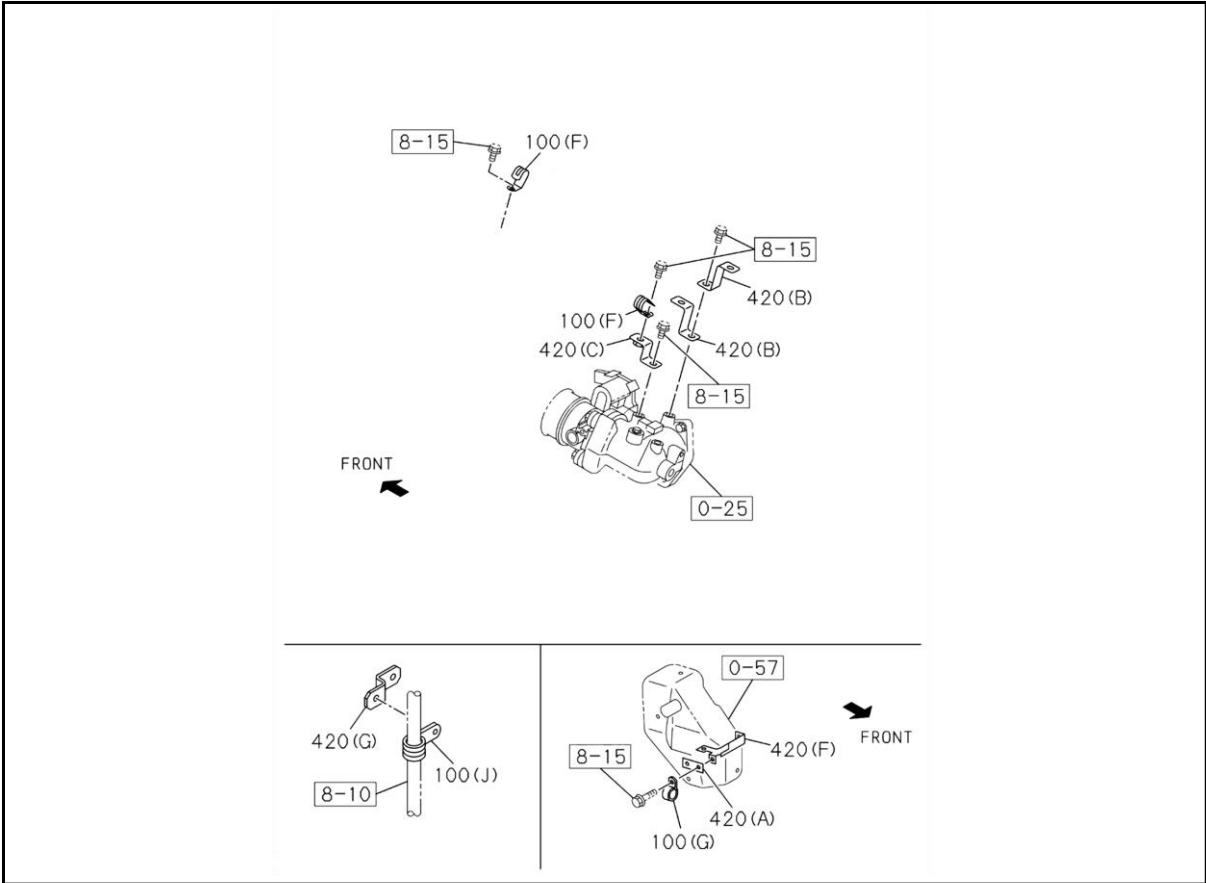
KEY No.	Part no.	qty	Part description	Engine serial no.
45	1-09302-159-0	2	STUD; ADAPTER,EGR M10X135 L=150	
48	0-28050-816-0	1	BOLT; CLIP,HOSE M8X16 FLANGE	
139	8-97367-985-1	1	CLIP; HARNESS ID=18 L=44	
225 (A)	8-98028-398-0	1	SENSOR; THERMO,EGR	
225 (B)	8-98030-955-0	1	SENSOR; THERMO,EGR	
238	8-98237-346-1	1	PROTECTOR; HEAT,EGR	
271	0-28650-820-0	1	BOLT; BRKT M8X20 FLANGE	
509	8-98237-360-0	1	BRACKET; HARNESS	
703 (A)	8-98121-769-0	1	DUCT; EGR	
703 (B)	8-98236-574-0	1	DUCT; EGR	
703 (C)	8-98123-251-1	1	DUCT; EGR	
703 (D)	8-98236-575-0	1	DUCT; EGR	
704 (A)	8-98107-857-4	1	COOLER ASM; EGR	
704 (B)	8-98122-226-2	1	COOLER ASM; EGR	
709 (A)	0-28151-260-0	1	BOLT; EGR COOLER M12X60 FLANGE	
709 (B)	0-28660-825-0	1	BOLT; EGR COOLER M8X25 FLANGE	
710	8-98172-735-0	1	BRACKET; EGR COOLER	
720	8-98200-753-0	4	GASKET; COOLER ALSO INCLUDED IN GASKET SET(ENGINE)	
736	8-97061-401-1	3	NUT; DUCT,EGR VLV M8 FLANGE	
767 (A)	0-28050-830-0	2	BOLT; DUCT,EGR M8X30 FLANGE	
767 (B)	0-28050-835-0	4	BOLT; DUCT,EGR M8X35 FLANGE	
767 (C)	0-28050-890-0	2	BOLT; DUCT,EGR M8X90 FLANGE	
767 (D)	0-28151-050-0	1	BOLT; DUCT,EGR M10X50 FLANGE	
767 (E)	0-28151-070-0	2	BOLT; DUCT,EGR M10X70 FLANGE	
767 (F)	0-58330-830-0	4	BOLT; DUCT,EGR M8X30 HEX SOCKET	
767 (G)	8-98043-528-0	4	BOLT; DUCT,EGR M8X28 FLANGE	
769	8-97378-075-0	4	BOLT; HEAT PROTECTOR M8X14 FLANGE	
782	8-98072-712-0	1	PLUG; EGR COOLER M10X9	
783	9-09571-410-0	1	GASKET; PLUG ALSO INCLUDED IN GASKET SET(ENGINE)ID=10.2 OD=16.0	

0-60 ENGINE ELECTRICAL CONTROL PARTS

(No.1)

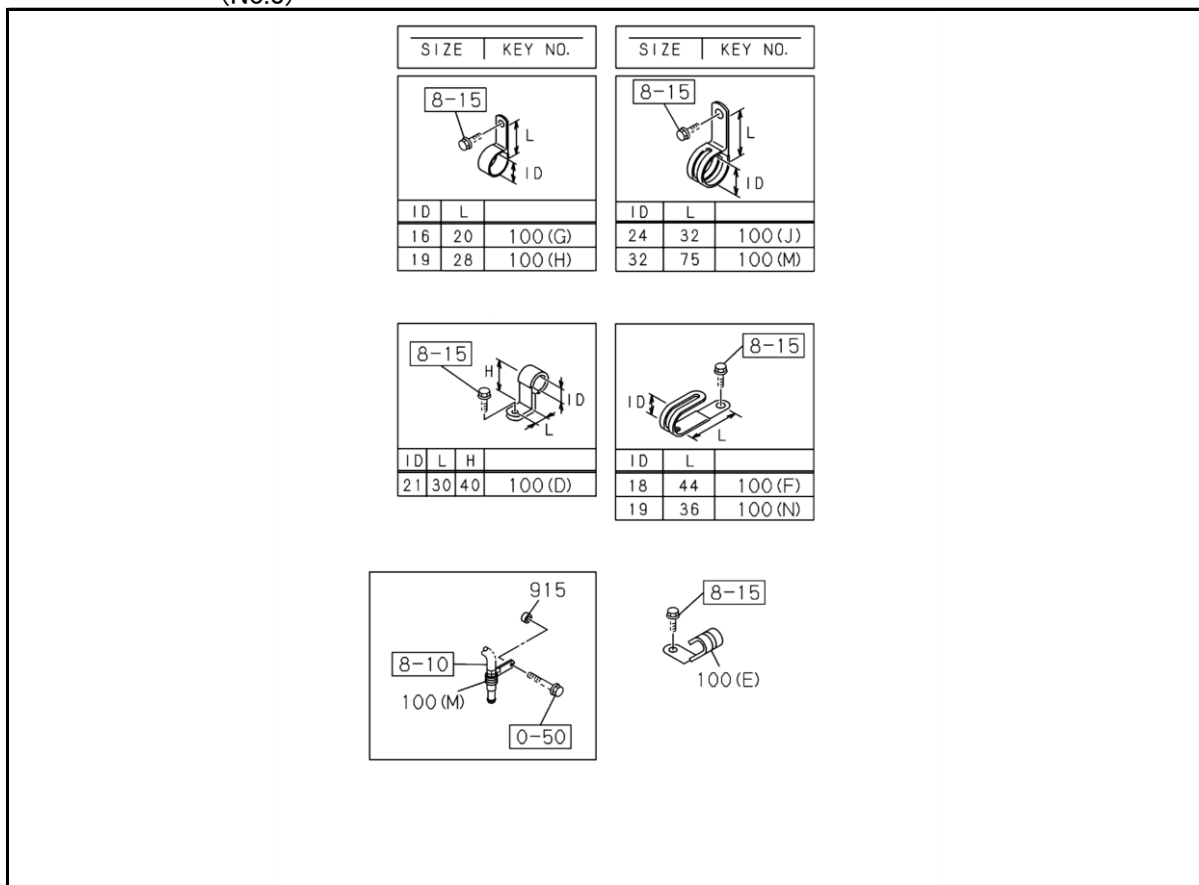


(No.2)



0-60 ENGINE ELECTRICAL CONTROL PARTS

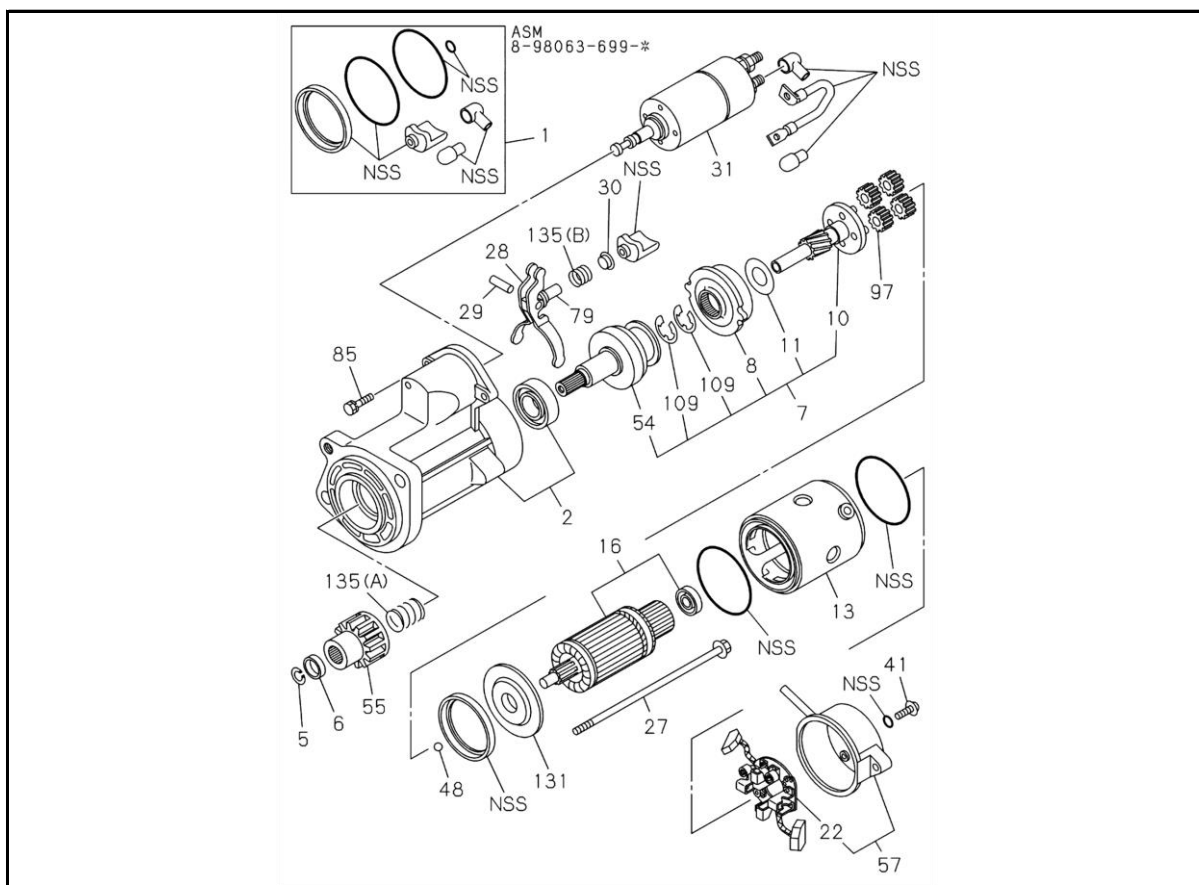
(No.3)



KEY No.	Part no.	qty	Part description	Engine serial no.
1	8-98063-699-1	1	STARTER ASM SEE FIG NO 0-65 FOR COMPONENT.NIKKO 12V-2.5KW	
2	8-97546-560-0	1	GENERATOR ASM SEE FIG NO 0-66 FOR COMPONENT.MITSUBISHI 12V-110A	
7	0-91180-212-0	2	NUT; STARTER M12 FLANGE	
10 (A)	5-82550-029-0	2	RELAY; STARTER 12V	
10 (B)	8-94248-161-0	1	RELAY; STARTER 12V	
16	5-09000-007-1	1	BOLT; GEN M10X135	
17	0-91610-510-0	1	WASHER; PL,GEN ID=10.5	
18	0-91510-510-0	1	WASHER; LK,GEN ID=10.2	
19	8-98210-173-0	1	BRACKET; GEN	
21	8-98054-797-0	1	BRACKET; GEN W/NUT M10	
26	0-28151-080-0	3	BOLT; GEN BRKT M10X80 FLANGE	
46	8-97011-949-0	1	RELAY; GLOW PLUG	
89	8-97125-601-1	1	SWITCH; OVER HEAT WARNING	
100 (D)	1-09700-991-1	2	CLIP; HARNESS ID=21 L=30 H=40	

KEY No.	Part no.	qty	Part description	Engine serial no.
100 (E)	8-97367-984-1	3	CLIP; HARNESS ID=12	
100 (F)	8-97367-985-1	1	CLIP; HARNESS ID=18 L=44	
100 (G)	0-95235-536-0	1	CLIP; HARNESS ID=16 L=20	
100 (H)	0-95235-856-0	3	CLIP; HARNESS ID=19 L=28	
100 (J)	1-09700-766-1	2	CLIP; HARNESS ID=24 L=32	
100 (M)	1-09700-704-1	1	CLIP; HARNESS ID=32 L=75	
100 (N)	8-94224-891-1	1	CLIP; HARNESS L=36	
129	8-98156-648-0	1	SENSOR; GLOW PLUG,THERMO	
420 (A)	1-82699-239-0	1	BRACKET; HARNESS	
420 (B)	1-47476-658-0	2	BRACKET; HARNESS	
420 (C)	1-47478-113-0	1	BRACKET; HARNESS	
420 (F)	8-98239-081-0	1	BRACKET; HARNESS	
420 (G)	1-53458-641-0	1	BRACKET; HARNESS	
520	8-98027-456-0	1	SENSOR; PRESSURE	
613	8-97510-970-0	1	CONTROL UNIT; ENG	
715	5-82550-029-0	1	RELAY; FUEL PUMP	
766	8-98251-345-0	1	GASKET; SENSOR ID=14.2 OD=19.2	
819	8-97601-967-0	1	SENSOR; MASS AIR FLOW (MAF)	
820	8-97381-182-0	1	SENSOR; INTAKE AIR TEMP	
915	8-94387-658-1	1	SPACER; HARNESS	
995	8-97510-977-0	1	CONTROL UNIT; DEF DCM	

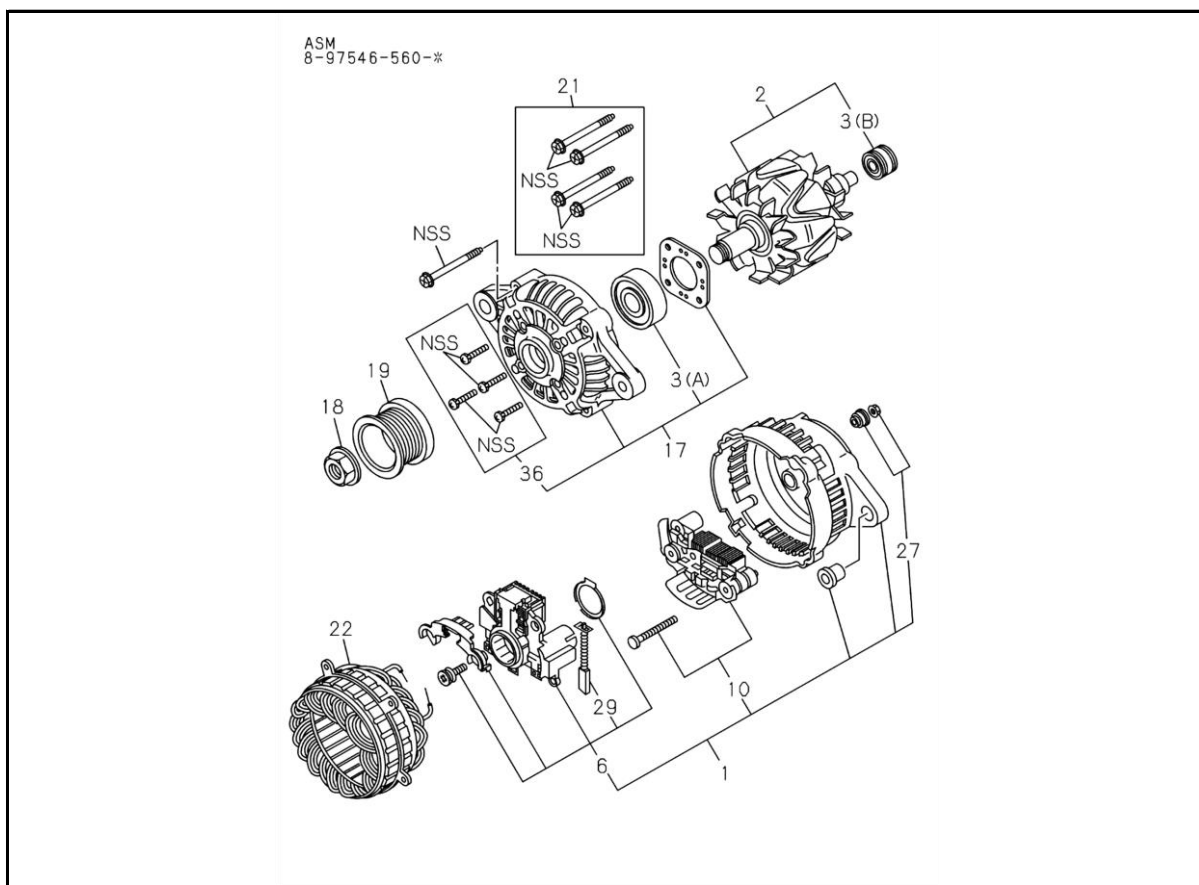
0-65 STARTER



KEY No.	Part no.	qty	Part description	Engine serial no.
1	8-98017-148-0	1	SEAL KIT; STARTER ASM PART A=8-98063-699-1 B=8-98070-321-1	
2	8-98073-930-0	1	CASE; PINION, STARTER ASM PART A=8-98063-699-1 B=8-98070-321-1	
5	8-98017-134-0	1	CLIP; PINION STOPPER STARTER ASM PART A=8-98063-699-1 B=8-98070-321-1	
6	8-98017-131-0	1	STOPPER; PINION STARTER ASM PART A=8-98063-699-1 B=8-98070-321-1	
7	8-98070-324-0	1	CLUTCH ASM; PINION, STARTER ASM PART A=8-98063-699-1 B=8-98070-321-1	
8	8-98017-142-0	1	BRACKET; CENTER STARTER ASM PART A=8-98063-699-1 B=8-98070-321-1	
10	8-98070-326-0	1	SHAFT; GEAR STARTER ASM PART A=8-98063-699-1 B=8-98070-321-1	
11	8-98017-137-0	1	WASHER; GEAR SHAFT STARTER ASM PART A=8-98063-699-1 B=8-98070-321-1	
13	8-98073-632-0	1	YOKE; STARTER ASM PART A=8-98063-699-1	
16	8-98073-631-0	1	ARMATURE; STARTER ASM PART A=8-98063-699-1	

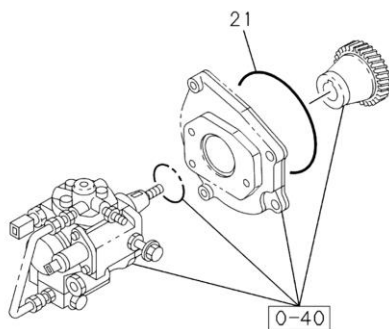
KEY No.	Part no.	qty	Part description	Engine serial no.
22	8-98073-634-0	1	HOLDER; BRUSH STARTER ASM PART A=8-98063-699-1	
27	8-97020-269-0	2	BOLT; THROUGH,STARTER ASM PART A=8-98063-699-1 B=8-98070-321-1	
28	8-98017-125-0	1	LEVER; SHIFT,STARTER ASM PART A=8-98063-699-1 B=8-98070-321-1	
29	8-94340-471-0	1	PIN; SHIFT LEVER STARTER ASM PART A=8-98063-699-1 B=8-98070-321-1	
30	8-98017-128-0	1	PLATE; ENGAGE SW STARTER ASM PART A=8-98063-699-1 B=8-98070-321-1	
31	8-98073-635-0	1	SWITCH; ENGAGE STARTER ASM PART A=8-98063-699-1	
41	1-81129-602-0	2	SCREW; RR COVER,STARTER ASM PART A=8-98063-699-1 B=8-98070-321-1	
48	1-81129-713-0	1	BALL; PINION,STARTER ASM PART A=8-98063-699-1 B=8-98070-321-1	
54	8-98070-325-0	1	CLUTCH; PINION,STARTER ASM PART A=8-98063-699-1 B=8-98070-321-1	
55	8-98017-129-0	1	PINION; CLU,STARTER ASM PART A=8-98063-699-1 B=8-98070-321-1	
57	8-98017-143-0	1	COVER ASM; RR,STARTER ASM PART A=8-98063-699-1 B=8-98070-321-1	
79	8-98073-633-0	1	HOLDER; SHIFT LEVER ASM PART A=8-98063-699-1	
85	8-94178-026-0	2	BOLT; ENGAGE SW FIX,STARTER ASM PART A=8-98063-699-1 B=8-98070-321-1	
97	8-98054-064-0	4	GEAR; STARTER ASM PART A=8-98063-699-1 B=8-98070-321-1	
109	8-98017-138-0	2	WASHER; PINION STOPPER,STARTER ASM PART A=8-98063-699-1 B=8-98070-321-1	
131	8-98017-146-0	1	COVER; PINION,STARTER ASM PART A=8-98063-699-1 B=8-98070-321-1	
135 (A)	8-98017-147-0	1	SPRING; STARTER ASM PART A=8-98063-699-1	
135 (B)	8-98073-636-0	1	SPRING; STARTER ASM PART A=8-98063-699-1	

0-66 GENERATOR



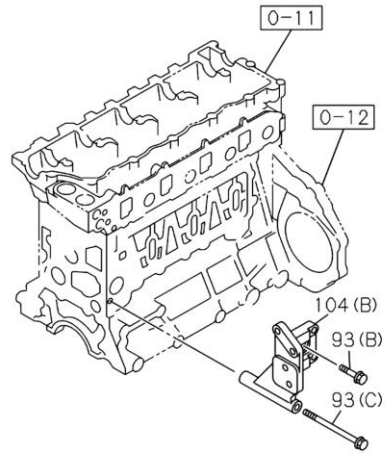
KEY No.	Part no.	qty	Part description	Engine serial no.
1	8-97553-786-0	1	COVER ASM; RR, GEN ASM PART B=8-97546-560-0	
2	8-97553-784-0	1	ROTOR; GEN ASM PART B=8-97546-560-0	
3 (A)	8-97144-740-0	1	BEARING; ROTOR, GEN ASM PART B=8-97546-560-0	
3 (B)	8-97144-741-0	1	BEARING; ROTOR, GEN ASM PART B=8-97546-560-0	
6	8-97553-788-0	1	REGULATOR ASM; VOLTAGE, GEN ASM PART B=8-97546-560-0	
10	8-97553-787-0	1	RECTIFIER; GEN ASM PART B=8-97546-560-0	
17	8-97553-783-0	1	COVER ASM; FRT, GEN ASM PART B=8-97546-560-0	
18	8-97145-327-0	1	NUT; PULLEY, GEN ASM PART B=8-97546-560-0	
19	8-97553-793-0	1	PULLEY; GEN ASM PART B=8-97546-560-0	
21	8-97145-328-0	1	BOLT; THROUGH, GEN ASM PART B=8-97546-560-0	
22	8-97553-785-0	1	STATOR; GEN ASM PART B=8-97546-560-0	
27	8-98273-824-0	1	NUT; RECTIFIER, GEN ASM PART B=8-97546-560-0	
29	8-97255-382-0	2	BRUSH; GEN ASM PART B=8-97546-560-0	
36	8-97178-136-0	1	SCREW; FRT COVER ASM PART B=8-97546-560-0	

0-86 MISCELLANEOUS PARTS; INJECTION PUMP



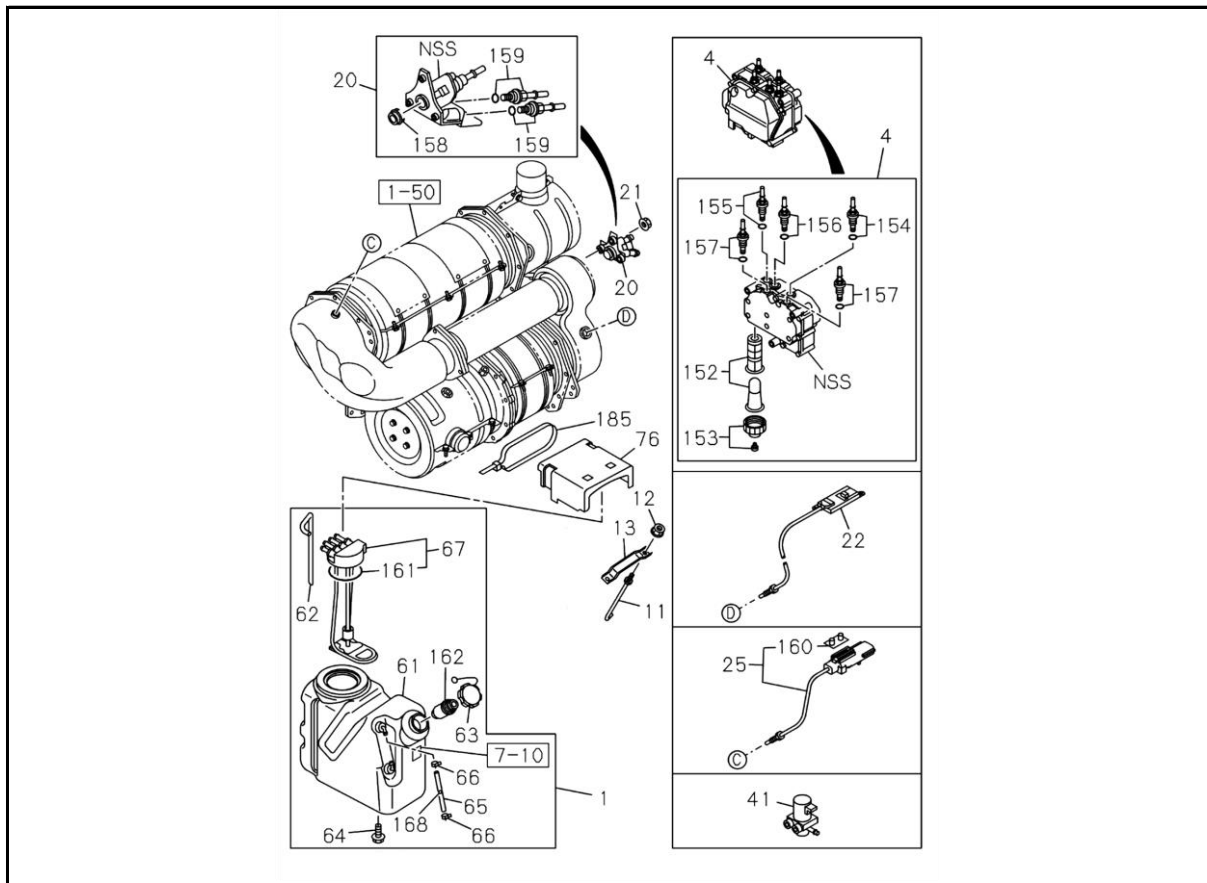
KEY No.	Part no.	qty	Part description	Engine serial no.
21	8-97039-200-1	1	GASKET; INJ PUMP ALSO INCLUDED IN GASKET SET(ENGINE)	

1-10 RADIATOR



KEY No.	Part no.	qty	Part description	Engine serial no.
93 (B)	0-28050-860-0	1	BOLT; BRKT FIX M8X60 FLANGE	
93 (C)	0-28156-013-0	1	BOLT; BRKT FIX M10X130 FLANGE	
104 (B)	8-98174-473-1	1	BRACKET; STAY	

1-46 DEF TANK AND PIPING

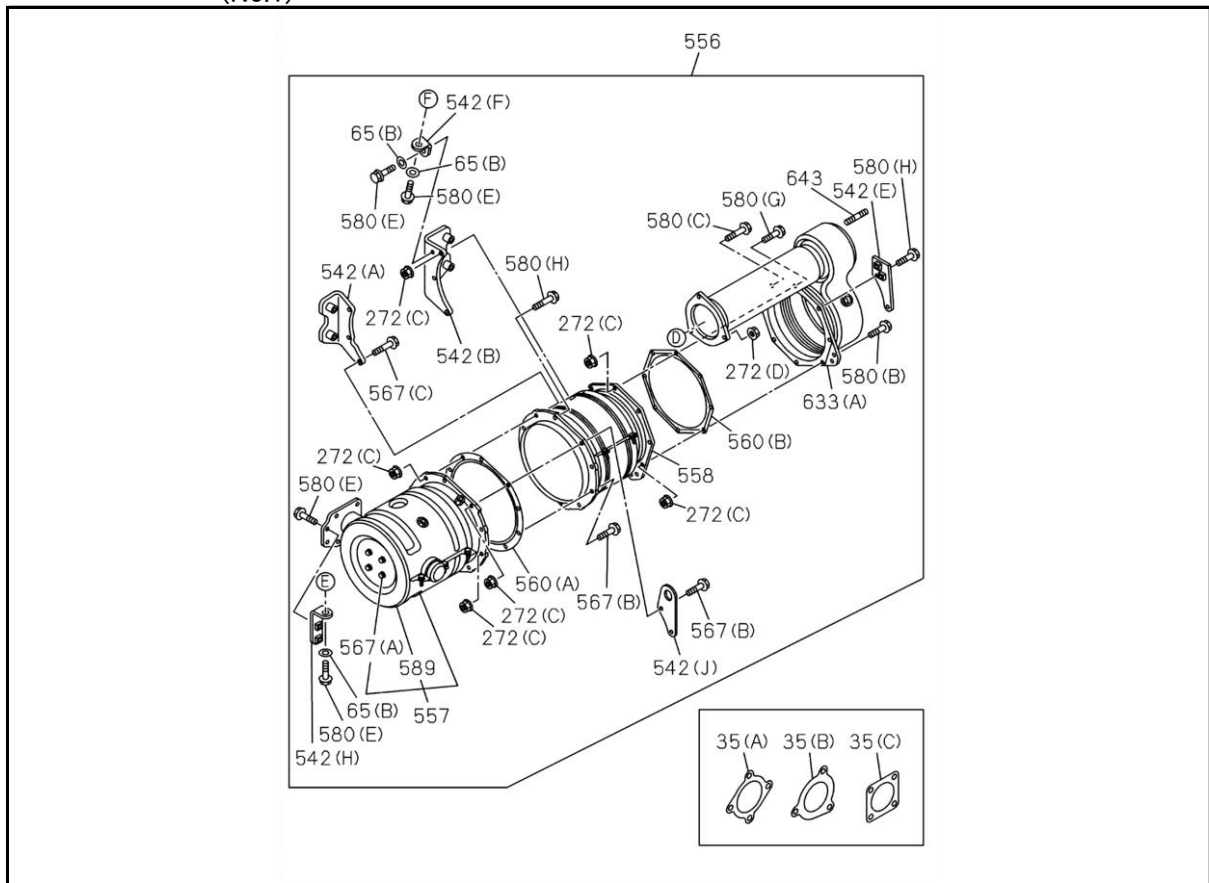


KEY No.	Part no.	qty	Part description	Engine serial no.
1	8-98298-447-3	1	TANK ASM; DEF	
4	8-98268-811-2	1	PUMP ASM; DEF,DCM SPLY	
11	8-98157-936-0	2	BOLT; DEF TANK	
12	0-91180-110-0	2	NUT; DEF TANK	
13	8-98156-747-0	1	RETAINER; DEF TANK	
20	8-98231-898-3	1	INJECTOR ASM; DEF DCM	
21	0-91180-106-0	3	NUT; INJECTOR ASM,DEF DCM	
22	8-98246-506-2	2	SENSOR; DEF DCM EXH NOX	
25	8-98086-329-0	1	SENSOR; DEF DCM EXH TEMP	
41	8-98121-306-2	1	VALVE ASM; DEF TANK HTR DLVY	
61	8-98120-260-3	1	BODY ASM; DEF TANK	
62	8-98120-261-0	1	HOSE; VENT,DEF TANK	
63	8-98120-262-2	1	CAP ASM; FILLER,DEF TANK	
64	8-98120-263-0	1	PLUG; DRAIN,DEF TANK	
65	8-98120-264-1	1	HOSE; WATER LEVEL	
66	8-98120-265-1	2	CLAMP; WATER LEVEL HOSE	
67	8-98286-177-1	1	SENSOR ASM; DEF TANK	
76	8-98156-298-1	1	COVER; DEF TANK CAP	
152	1-86750-641-0	1	FILTER KIT;UREA,BESTFIX	
153	8-98169-408-0	1	COVER KIT; PUMP ASM,DEF DCM SPLY	
154	8-98169-409-0	1	CONNECTOR KIT; INLET PUMP,DEF	
155	8-98169-411-0	1	CONNECTOR KIT; OUTLET PUMP,DEF	
156	8-98268-813-0	1	CONNECTOR KIT; RETURN PUMP,DEF	
157	8-98169-414-1	2	CONNECTOR KIT; COOLANT PUMP,DEF	
158	8-98086-333-0	1	GASKET; INJECTOR ASM,DEF DCM	
159	8-98169-416-1	2	CONNECTOR KIT; COOLANT,INJECTOR ASM DEF	

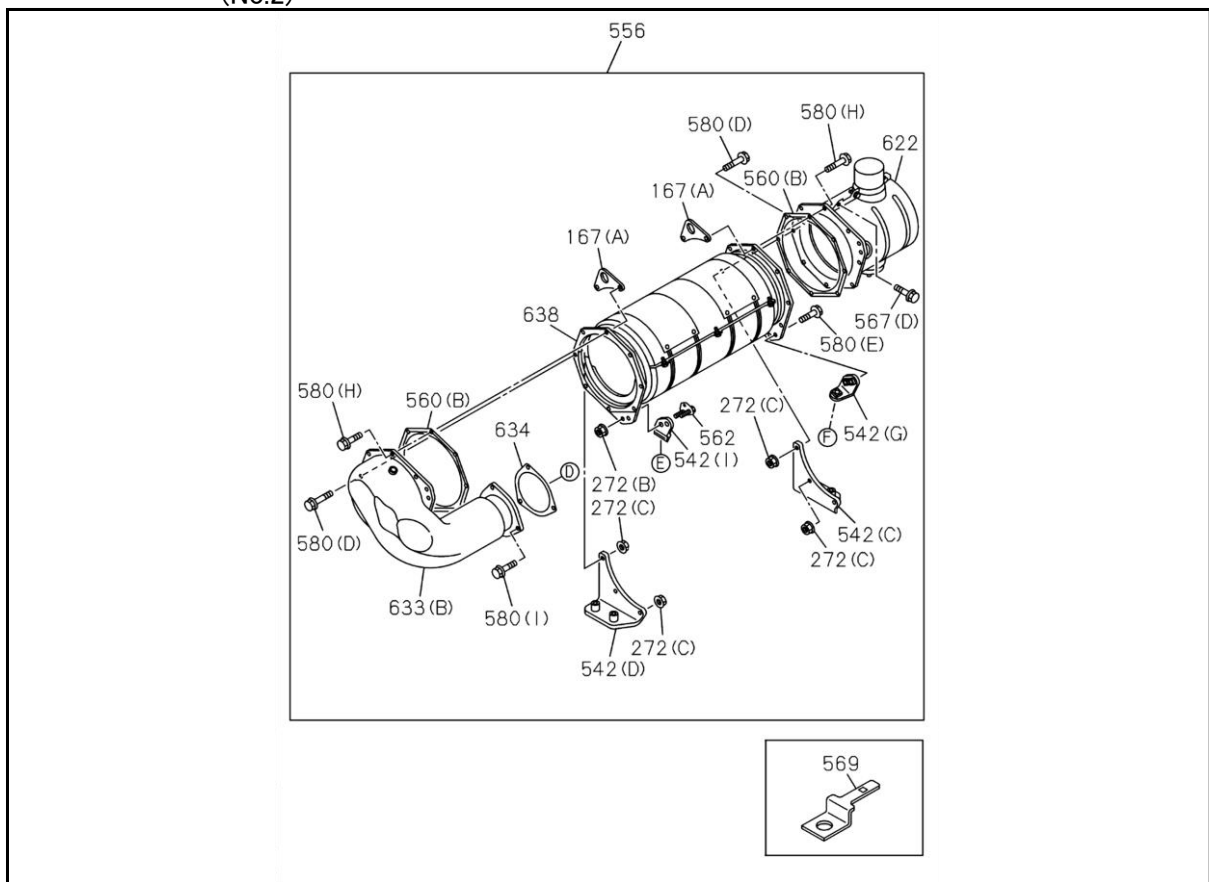
KEY No.	Part no.	qty	Part description	Engine serial no.
160	8-98170-331-0	1	CLIP; HARNESS,SENSOR DEF DCM EXH TEMP	
161	8-98170-383-0	1	GASKET; SENSOR ASM,DEF TANK	
162	8-98234-328-0	1	ADAPTER; DEF TANK	
168	8-98204-163-0	1	INDICATOR; WATER LEVEL	
185	1-09707-183-0	1	CLIP; BAND L=350	

1-50 EXHAUST PIPE AND SILENCER

(No.1)

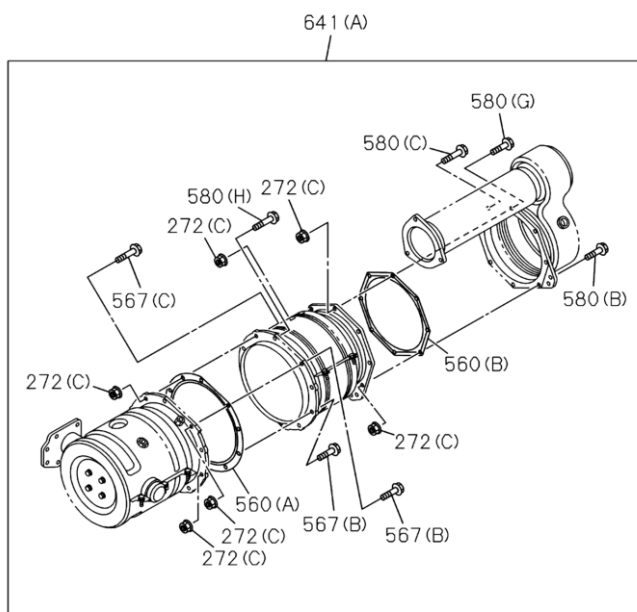


(No.2)



1-50 EXHAUST PIPE AND SILENCER

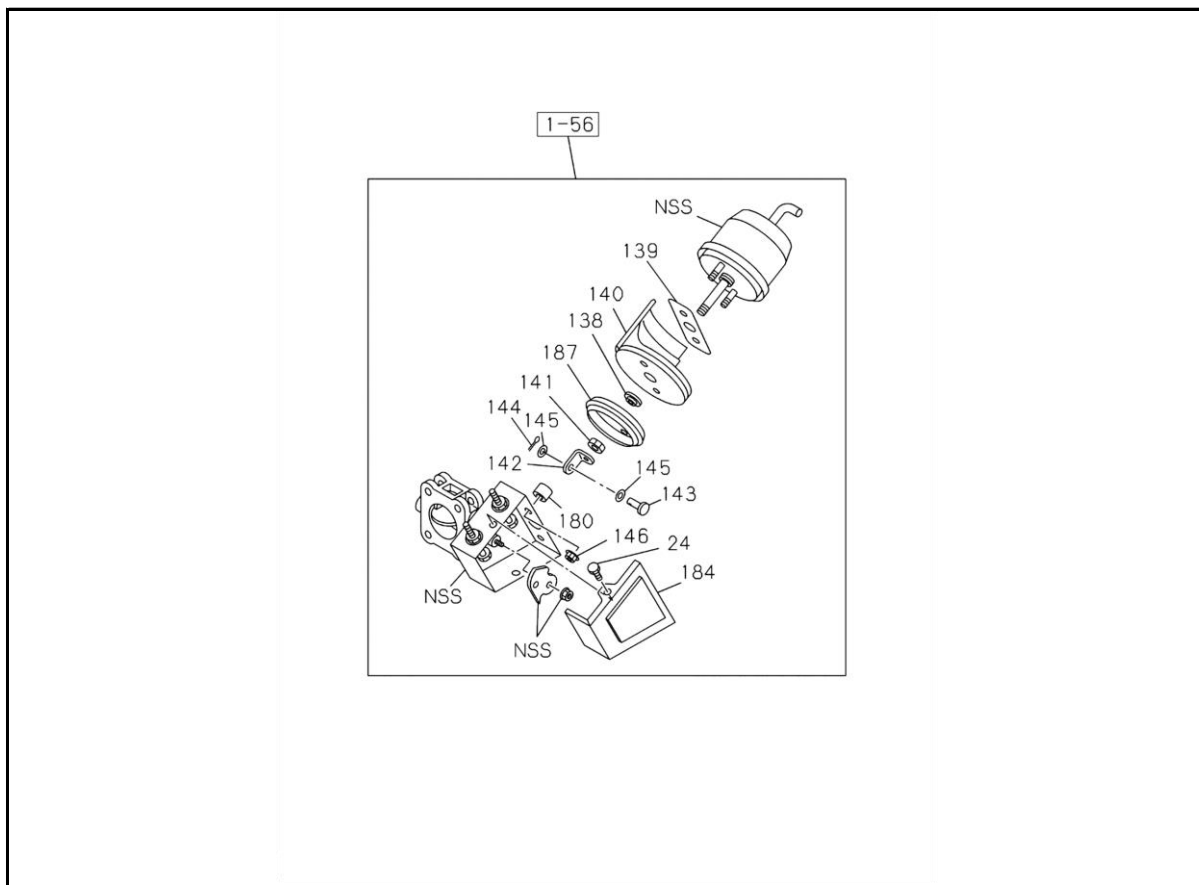
(No.3)



KEY No.	Part no.	qty	Part description	Engine serial no.
35 (A)	8-94392-553-2	1	GASKET; EXH PIPE TO MANIF ID=83	
35 (B)	8-97376-758-0	1	GASKET; EXH PIPE TO MANIF	
35 (C)	8-97373-108-0	3	GASKET; EXH PIPE TO MANIF ID=64	
65 (B)	0-91614-710-0	3	WASHER; PL ID=10.5 OD=26	
167 (A)	8-98237-824-0	2	HANGER; EXH PIPE	
272 (B)	0-91180-210-0	2	NUT; FLANGE M10 FLANGE	
272 (C)	8-97061-401-1	30	NUT; FLANGE M8 FLANGE	
272 (D)	8-97096-192-1	3	NUT; FLANGE M10 FLANGE	
542 (A)	8-98237-363-0	1	BRACKET	
542 (B)	8-98237-365-0	1	BRACKET	
542 (C)	8-98237-366-0	1	BRACKET	
542 (D)	8-98237-367-0	1	BRACKET	
542 (E)	8-98237-389-0	1	BRACKET	
542 (F)	8-98237-731-0	1	BRACKET	
542 (G)	8-98237-732-0	1	BRACKET	
542 (H)	8-98237-733-0	1	BRACKET	
542 (I)	8-98237-735-0	1	BRACKET	
542 (J)	8-98237-825-0	1	BRACKET	
556	8-98324-498-0	1	DPD ASM	
557	8-98238-921-0	1	CATALYST ASM	
558	8-98238-924-0	1	FILTER ASM	
560 (A)	8-97611-080-0	1	GASKET; DPD	

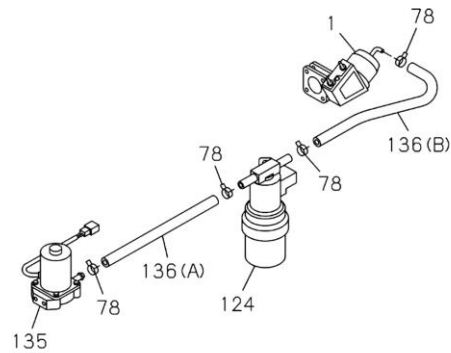
KEY No.	Part no.	qty	Part description	Engine serial no.
560 (B)	8-97628-257-0	3	GASKET; DPD	
562	8-98005-985-0	1	PLATE; STUD,BOLT	
567 (A)	0-28050-612-0	4	BOLT; DPD M6X12 FLANGE	
567 (B)	0-28060-835-0	7	BOLT; DPD M8X35 FLANGE	
567 (C)	0-28060-845-0	3	BOLT; DPD M8X45 FLANGE	
567 (D)	8-98019-179-0	6	BOLT; DPD M6X20 FLANGE	
569	8-97602-870-1	2	BRACKET; HARNESS CLIP	
580 (B)	0-28060-840-0	4	BOLT; FLANGE M8X40 FLANGE	
580 (C)	0-28060-845-0	3	BOLT; FLANGE M8X45 FLANGE	
580 (D)	0-28060-850-0	6	BOLT; FLANGE M8X50 FLANGE	
580 (E)	0-28061-035-0	7	BOLT; FLANGE M10X35 FLANGE	
580 (G)	0-28060-830-0	1	BOLT; FLANGE M8X30 FLANGE	
580 (H)	0-28060-835-0	14	BOLT; FLANGE M8X35 FLANGE	
580 (I)	0-28061-040-0	3	BOLT; FLANGE M10X40 FLANGE	
589	8-98152-513-1	1	PROTECTOR; HEAT,DPD	
622	8-98324-448-0	1	SILENCER SUB ASM; DPD FRONT	
633 (A)	8-98237-713-0	1	CHAMBER SUB ASM; DEF,FRONT	
633 (B)	8-98127-327-1	1	CHAMBER SUB ASM; DEF,FRONT	
634	8-98118-422-1	1	GASKET; MIXER	
638	8-98238-926-0	1	CATALYST ASM; DEF	
641 (A)	1-87831-618-0	1	GASKET KIT; FLANGE,DPD	
643	8-98141-351-0	3	STUD M6X26.3 L=34.3 HEX	

1-55 EXHAUST BRAKE VALVE AND CONTROL CYLINDER



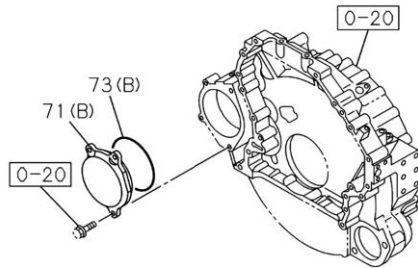
KEY No.	Part no.	qty	Part description	Engine serial no.
24	8-97065-029-0	2	BOLT; COVER	
138	5-22189-004-0	1	BEARING; EXH BRK VLV	
139	8-94328-234-0	1	GASKET; EXH BRK VLV	
140	8-97381-625-0	1	INSULATOR; EXH BRK VLV	
141	8-97985-128-0	1	NUT; CLEVIS,EXH BRK VLV	
142	8-97985-127-0	1	CLEVIS; EXH BRK VLV	
143	8-97985-126-0	1	PIN; EXH BRK VLV	
144	8-97985-124-0	1	PIN; SPLIT,EXH BRK VLV	
145	8-97985-125-0	2	WASHER; LK,EXH BRK VLV	
146	0-91180-108-0	2	NUT; EXH BRK VLV	
180	8-97018-597-0	2	COLLAR; EXH BRK VLV	
184	8-98070-516-0	1	COVER; BRKT	
187	8-98037-495-0	1	PROTECTOR; EXH BRK VLV	

1-56 EXHAUST BRAKE SYSTEM



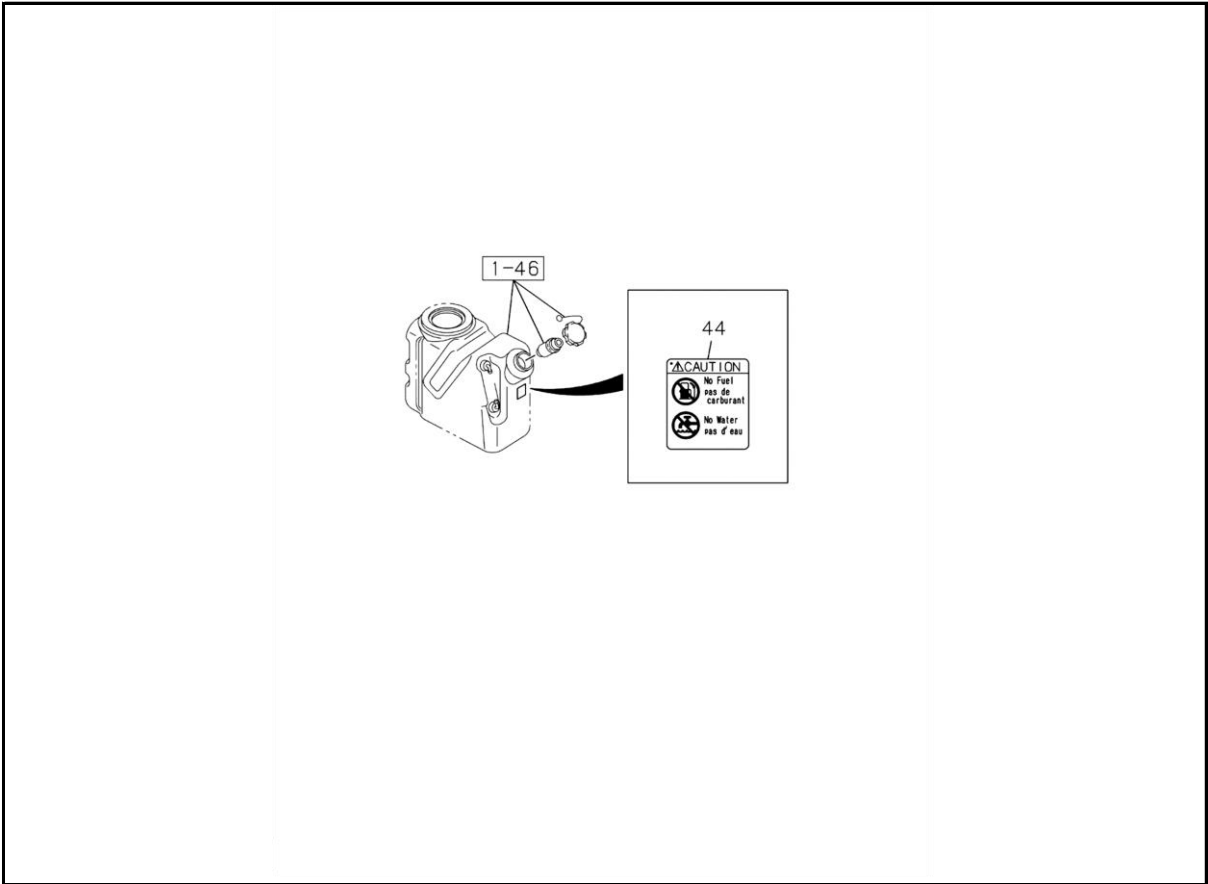
KEY No.	Part no.	qty	Part description	Engine serial no.
1	8-98299-964-0	1	BRAKE UNIT; EXH	
78	8-97329-628-0	4	CLIP; HOSE ID=16	
124	8-97328-577-0	1	VALVE; MAG,DPD EXH THROTTLE	
135	8-98299-968-0	1	PUMP; VAC	
136 (A)	0-08358-100-0	1	HOSE; MAG VLV TO VAC PUMP D=8.7X17.0X1,000 -> L500 It is necessary to cut down to the above mentioned length before part	
136 (B)	0-08358-100-0	1	HOSE; MAG VLV TO VAC PUMP D=8.7X17.0X1,000 -> L730 It is necessary to cut down to the above mentioned length before part	

2-20 MANUAL TRANSMISSION ASM AND CASE



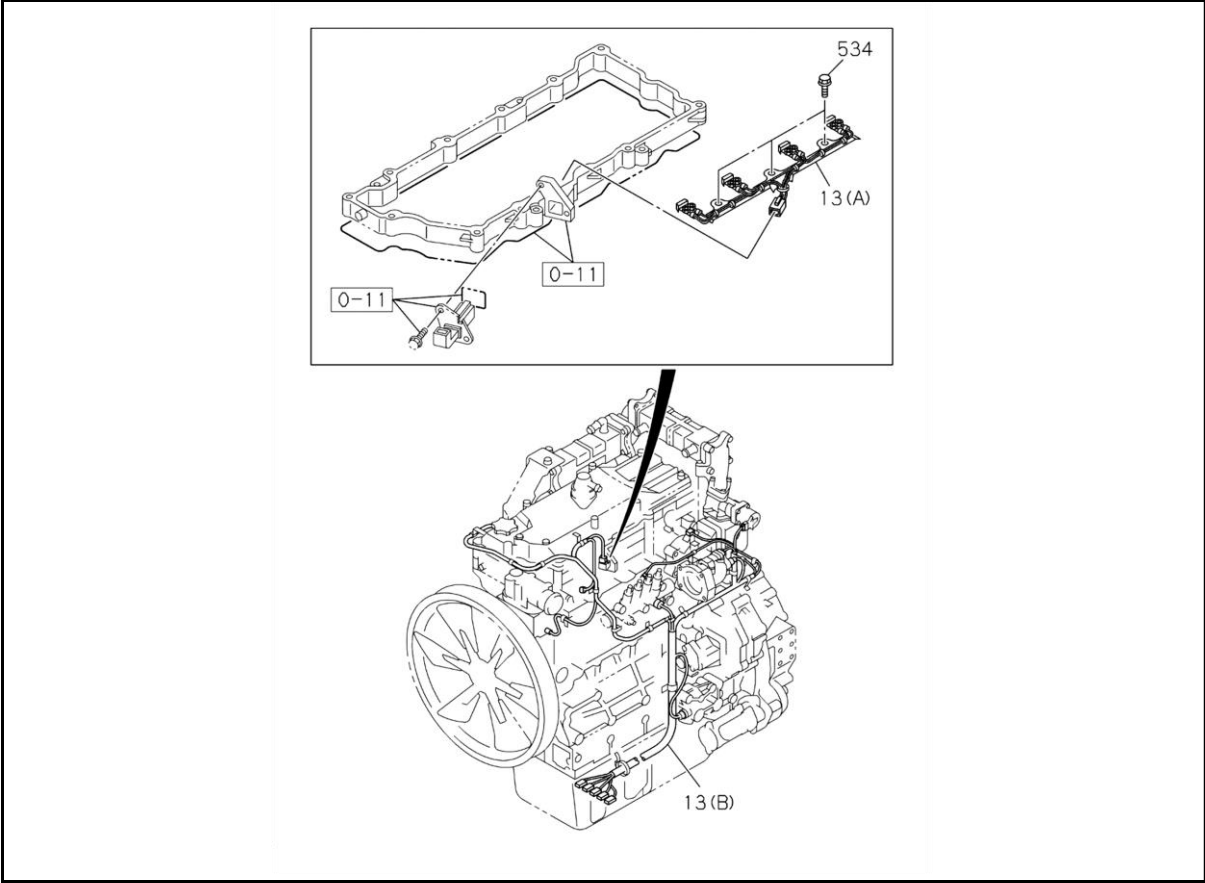
KEY No.	Part no.	qty	Part description	Engine serial no.
71 (B)	8-98023-824-1	1	COVER; SIDE,TRANS CASE	
73 (B)	8-94394-186-0	1	GASKET; SIDE COVER TO TRANS CASE ALSO INCLUDED IN GASKET SET(ENGINE)ID=110	

7-10 CAUTION PLATE AND LABEL



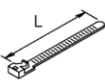
KEY No.	Part no.	qty	Part description	Engine serial no.
44	8-98194-654-0	1	PANEL; CAUTION PLATE	

8-10 WIRING HARNESS AND FUSE



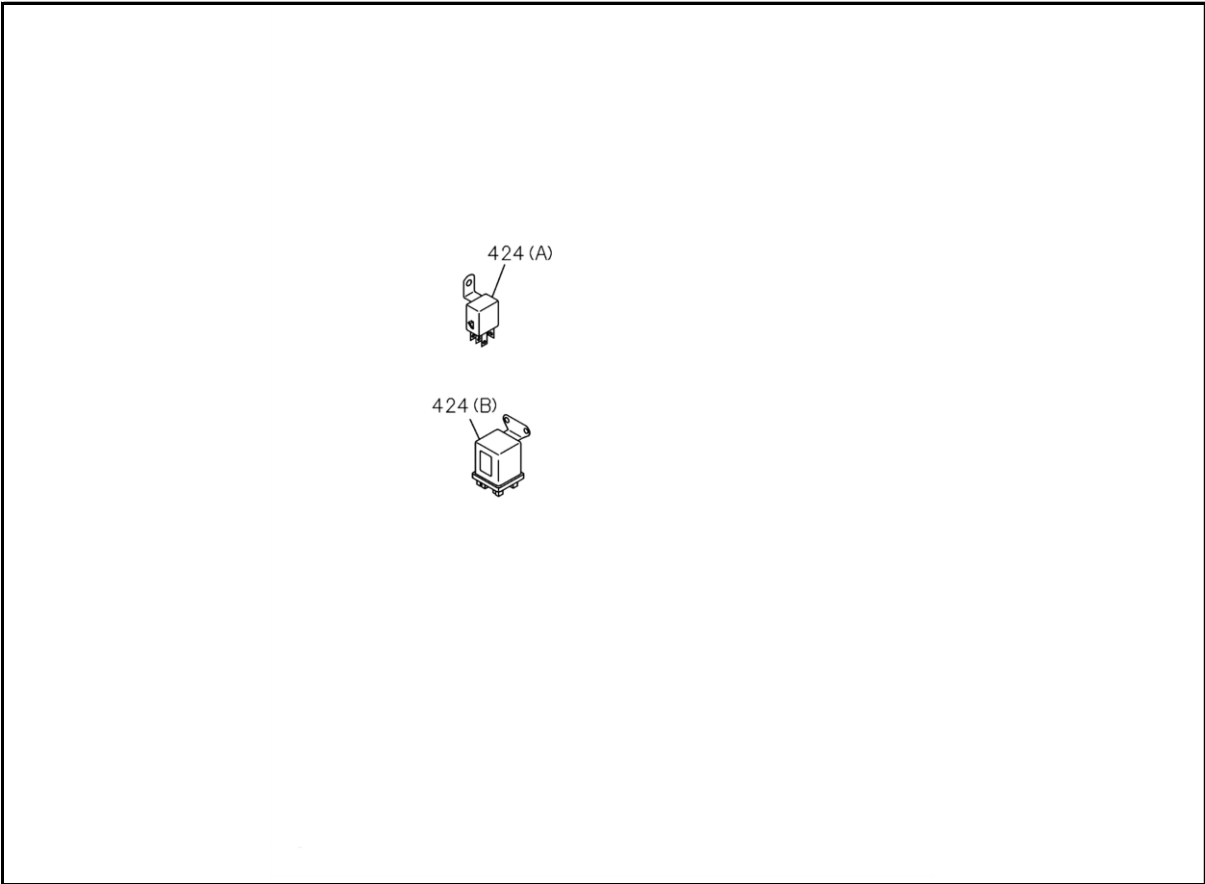
KEY No.	Part no.	qty	Part description	Engine serial no.
13 (A)	8-97332-133-3	1	HARNESS; ENG	
13 (B)	8-98371-829-1	1	HARNESS; ENG	
534	8-97365-449-0	3	BOLT M10X55 FLANGE	

8-15 FIXING PARTS; WIRING HARNESS

SIZE KEY NO.			SIZE KEY NO.		
					
M	L		L		
8	12	150 (A)	140	14 (A)	
	16	150 (B)	250	14 (B)	

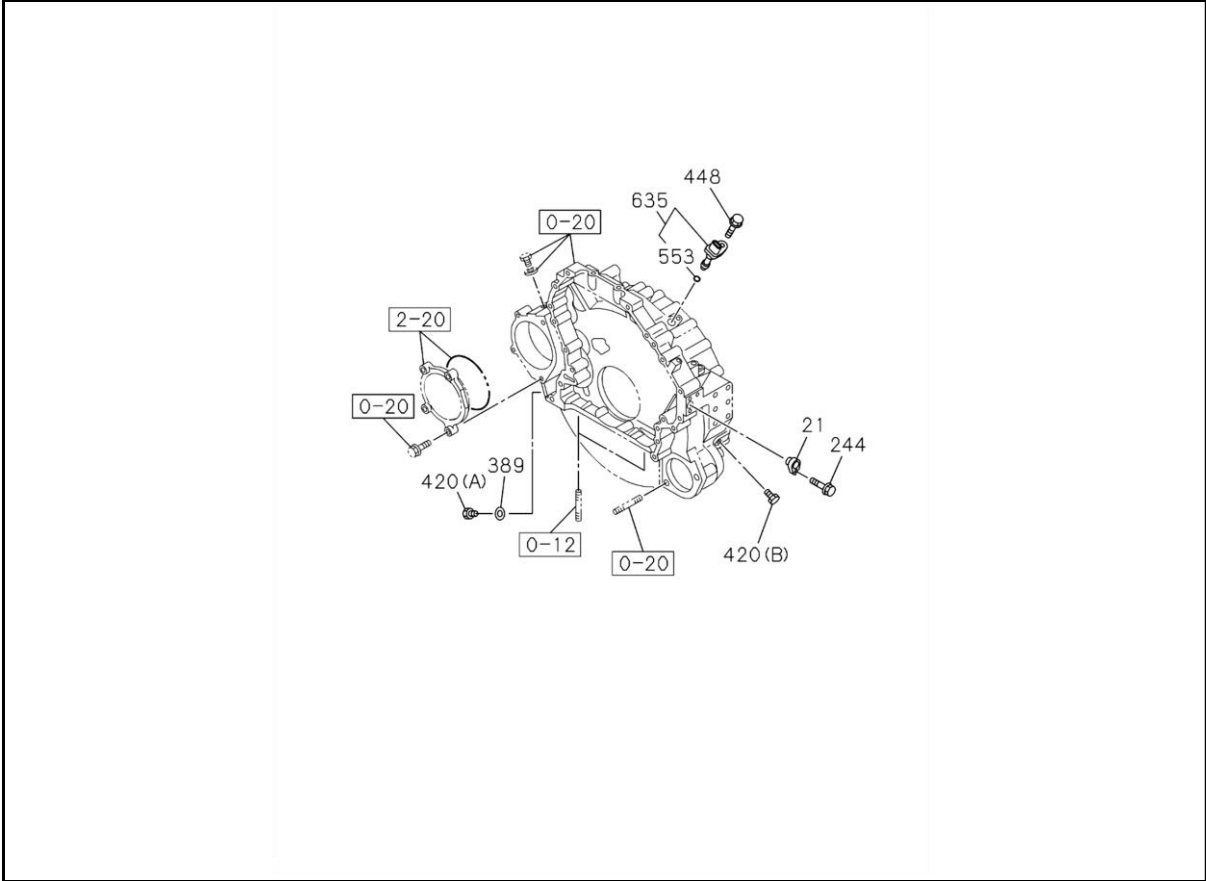
KEY No.	Part no.	qty	Part description	Engine serial no.
14 (A)	5-09707-031-1	2	CLIP; BAND,HARNESS L=140	
14 (B)	5-09707-030-1	4	CLIP; BAND,HARNESS L=250	
150 (A)	0-28050-812-0	6	BOLT; CLIP M8X12 FLANGE	
150 (B)	0-28050-816-0	7	BOLT; CLIP M8X16 FLANGE	

8-25 SWITCH AND RELAY; INSTRUMENT PANEL

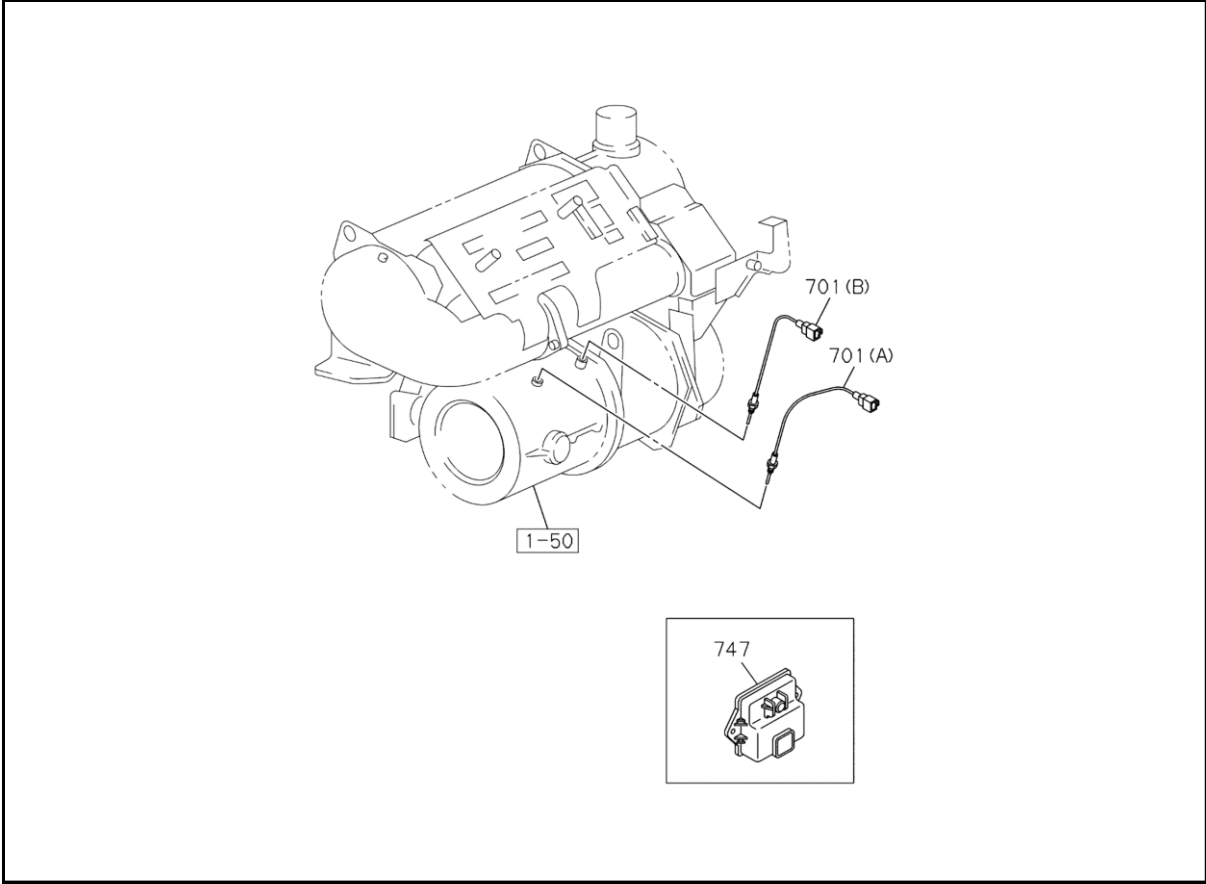


KEY No.	Part no.	qty	Part description	Engine serial no.
424 (A)	5-82550-029-0	1	RELAY 12V	
424 (B)	8-97011-949-0	1	RELAY 12V	

8-26 ELECTRICAL CONTROL AND OTHER PARTS
(No.1)



(No.2)



8-26 ELECTRICAL CONTROL AND OTHER PARTS

KEY No.	Part no.	qty	Part description	Engine serial no.
21	8-97101-974-0	1	COVER; HOLE	
244	0-28050-616-0	1	BOLT; COVER M6X16 FLANGE	
389	9-09571-416-0	1	GASKET; SWITCH ID=16.2 OD=24	
420 (A)	0-92002-416-0	1	PLUG; SWITCH M16X12	
420 (B)	8-94321-838-0	1	PLUG; SWITCH 8/5-18	
448	0-28050-612-0	1	BOLT; SENSOR M6X12 FLANGE	
553	8-97369-404-0	1	GASKET	
635	8-97606-943-0	1	SENSOR; TACHOMETER	
701 (A)	8-98178-358-1	1	SENSOR; DPD	
701 (B)	8-98186-762-1	1	SENSOR; DPD	
747	8-98133-124-1	1	CONTROL UNIT; TURBOCHARGER	