

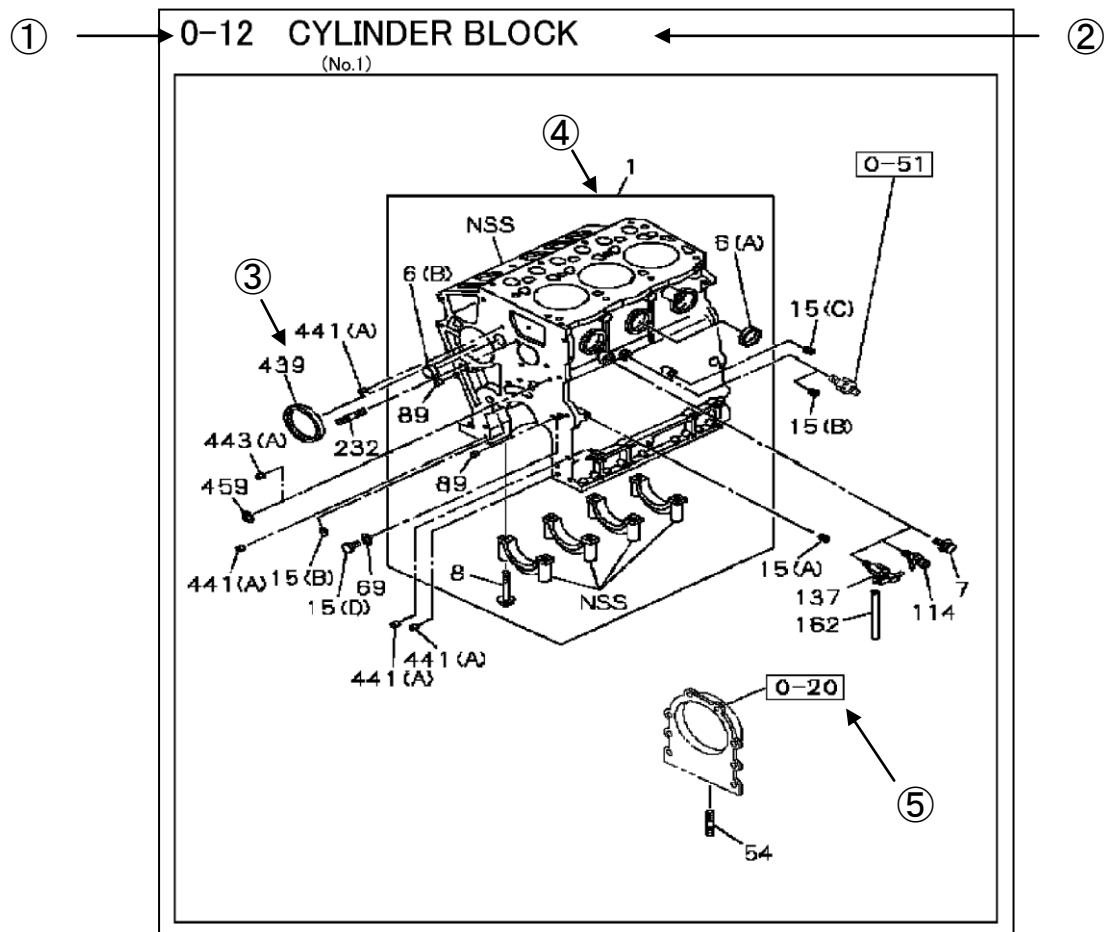
ISUZU

DIESEL ENGINE

4LE1 DA07

PARTS CATALOG

How to refer to the Parts Catalog



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 : 0-12 = Engine (0) ; Cylinder Block (12).

② ILLUSTRATION TITLE

The title contains a generic name(s) for the item(s) illustrated.

③ KEY NUMBER

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

Items identified with a “NSS” (Not Serviced 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.

⑤ SEE FIG NO.

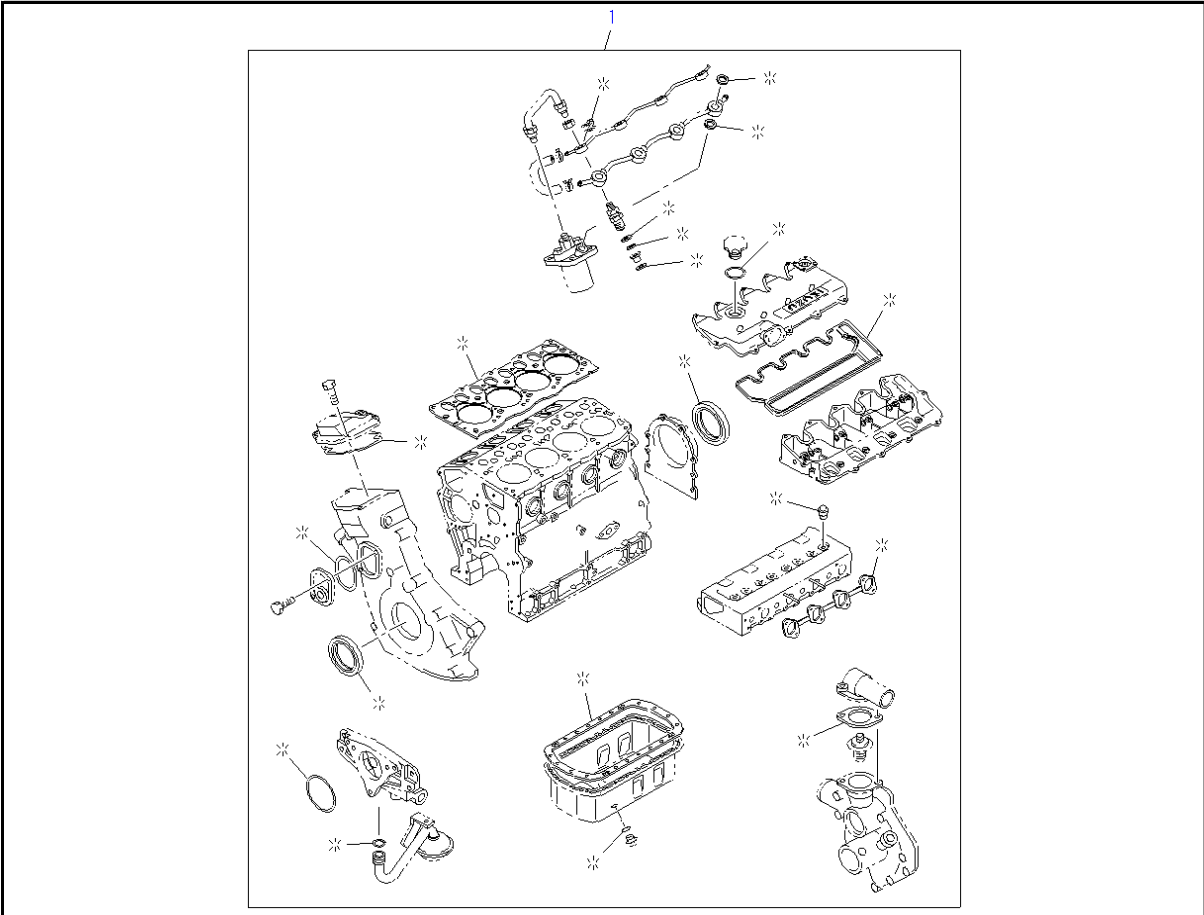
Items shown as a point of reference are not identified with a Key Number. These items are shown because of the way they fit within the illustration. They are described in more detail in another section of the Catalog.

The applicable catalog section is shown next to the illustration.

FIGURE NUMBER INDEX

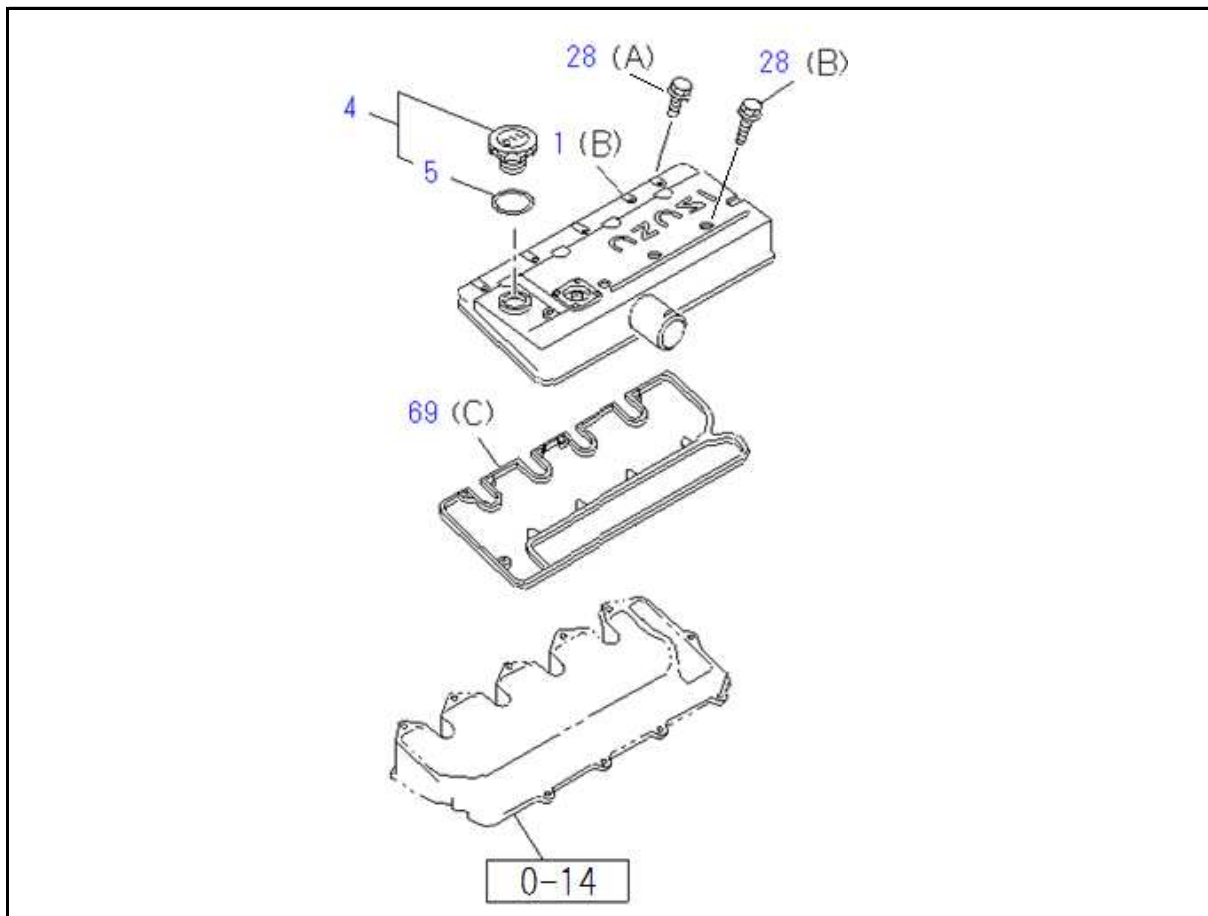
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0-11	CYLINDER HEAD	3
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0-05 ENGINE GASKET KIT



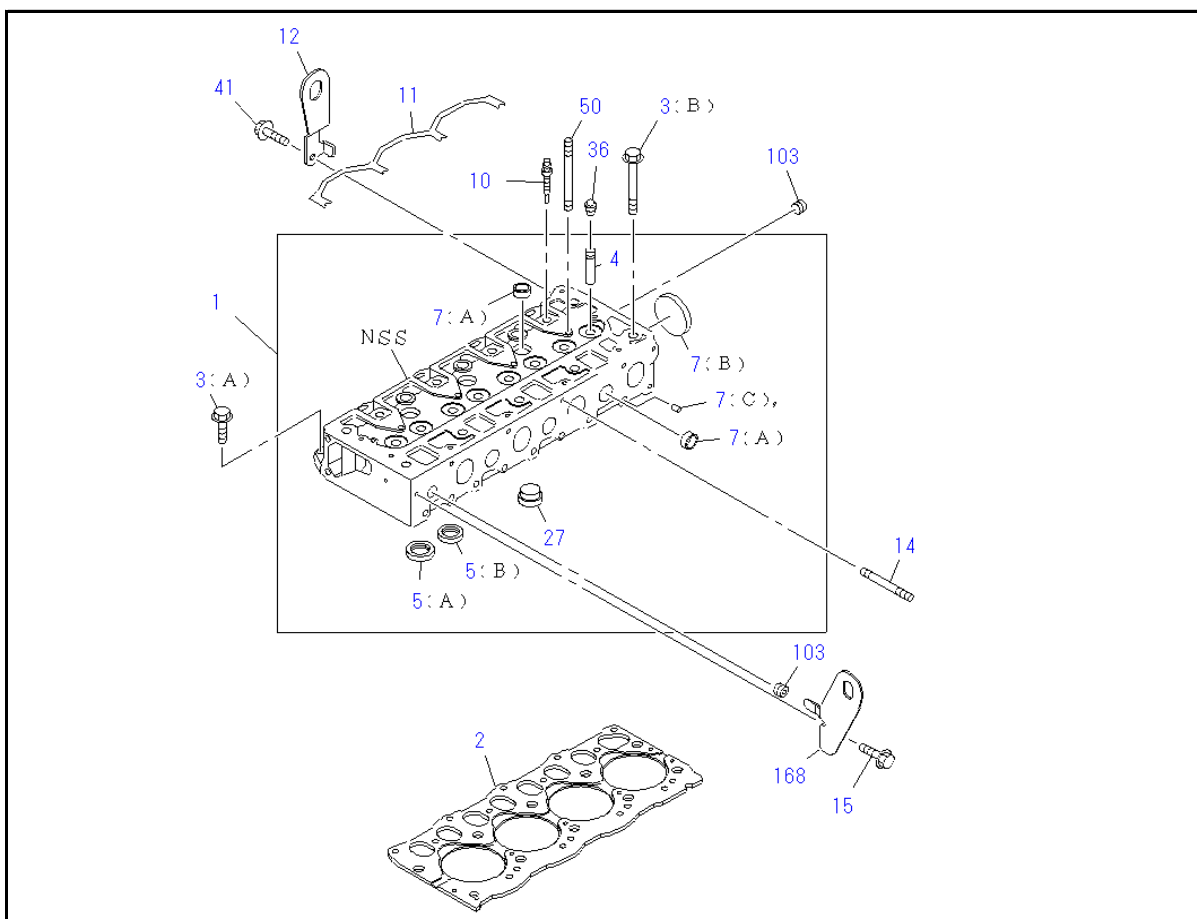
KEY No.	Part no.	qty	Part description	Engine serial no.
1	5-87815-389-2	1	GASKET SET; ENG OVERHAUL	

0-10 CYLINDER HEAD COVER



KEY No.	Part no.	qty	Part description	Engine serial no.
1 (B)	8-97118-205-2	1	COVER; CYL HD	
4	8-94133-207-5	1	CAP; OIL FILLER	
5	8-94123-623-1	1	GASKET; OIL FILLER ID=32 OD=40	
28 (A)	0-28050-620-0	5	BOLT; HD COVER M6X20 FLANGE	
28 (B)	0-28050-645-0	5	BOLT; HD COVER M6X45 FLANGE	
69 (C)	8-97119-299-2	1	GASKET; HD TO COVER	

0-11 CYLINDER HEAD

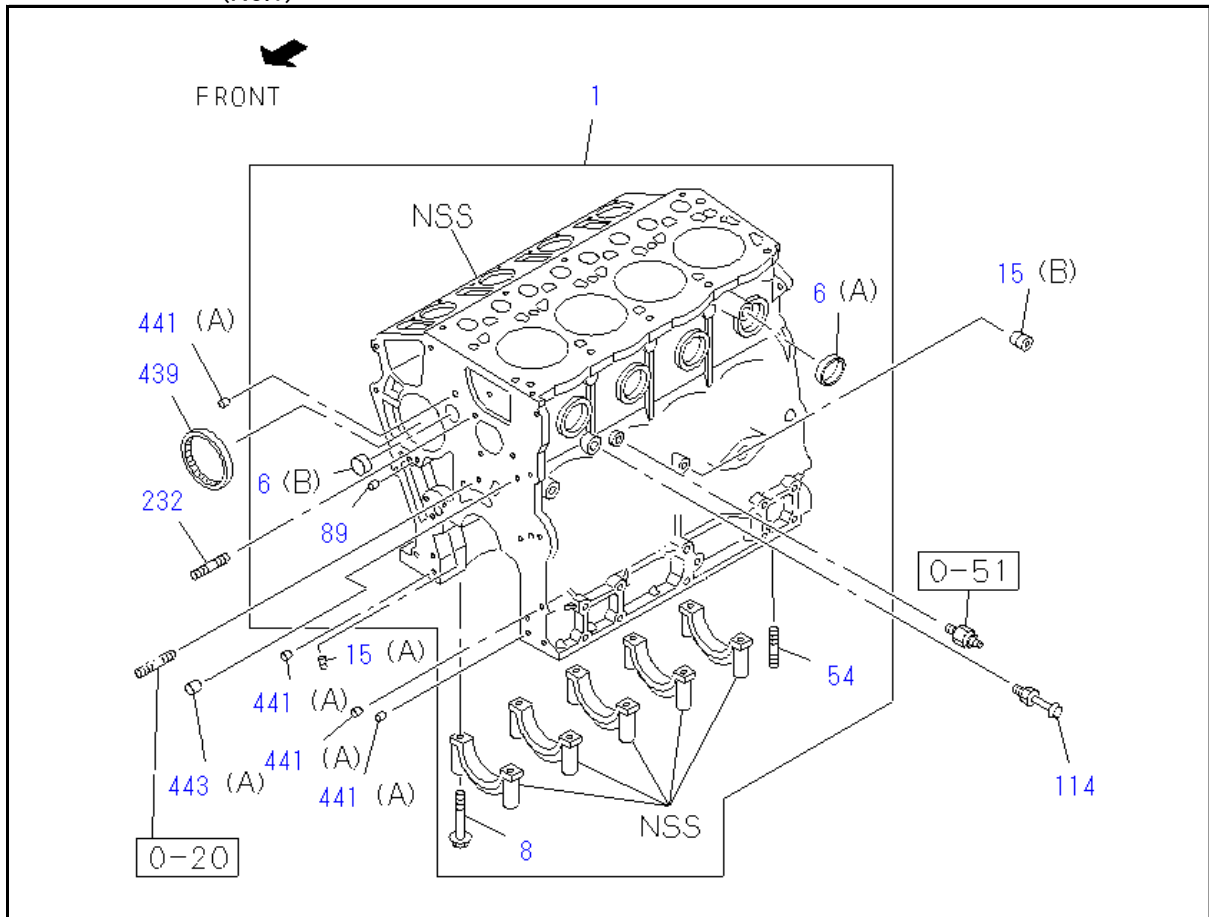


KEY No.	Part no.	qty	Part description	Engine serial no.
1	8-97114-713-5	1	HEAD ASM; CYL	
2	8-98074-776-0	1	GASKET; CYL HD	
3 (A)	8-94463-784-0	5	BOLT; CYL HD TO BLOCK M8X25	
3 (B)	8-97036-959-1	10	BOLT; CYL HD TO BLOCK M12X89	
4	8-97231-969-0 <8-97031-749-0>	8	GUIDE; VLV	
5 (A)	8-97045-391-2	4	SEAT; VLV INSERT INLET	
5 (B)	8-97045-392-0	4	SEAT; VLV INSERT EXHAUST	
7 (A)	8-97209-609-0	6	CUP; SEALING OD=22	
7 (B)	8-97036-550-1 <8-97351-451-0>	1	CUP; SEALING OD=45	
7 (C)	8-97233-429-0	5	CUP; SEALING OD=8	
10	8-97106-549-4	4	PLUG; GLOW 12V	
11	8-98100-786-0	1	CONNECTOR; GLOW PLUG	
12	8-97085-390-0	1	HANGER; ENG	
14	5-09300-065-0	2	STUD; EXH MANIF M8X79 L=92	
15	0-28050-816-0	1	BOLT; HANGER,FRT M8X16 FLANGE	
27	8-97115-315-1	4	PLUG; HOT	
36	8-94110-559-1	8	SEAL; OIL	
41	0-28050-816-0	1	BOLT; HANGER M8X16 FLANGE	

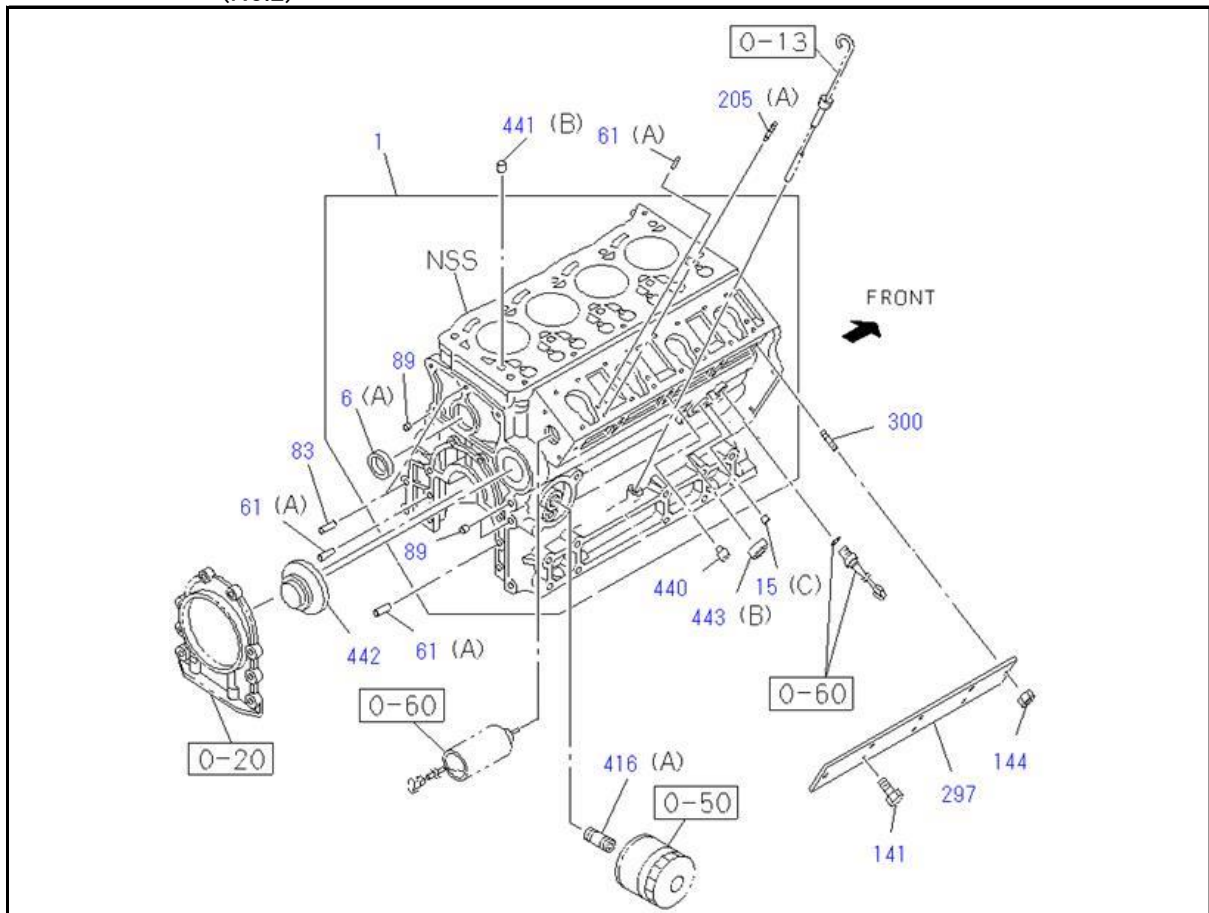
KEY No.	Part no.	qty	Part description	Engine serial no.
50	8-97094-641-1	6	STUD; ROCKER SHAFT BRKT M6X45 L=53	
103	5-09605-005-0	2	PLUG; HD PT3/8	
168	8-97085-389-0	1	HANGER; ENG	

0-12 CYLINDER BLOCK

(No.1)



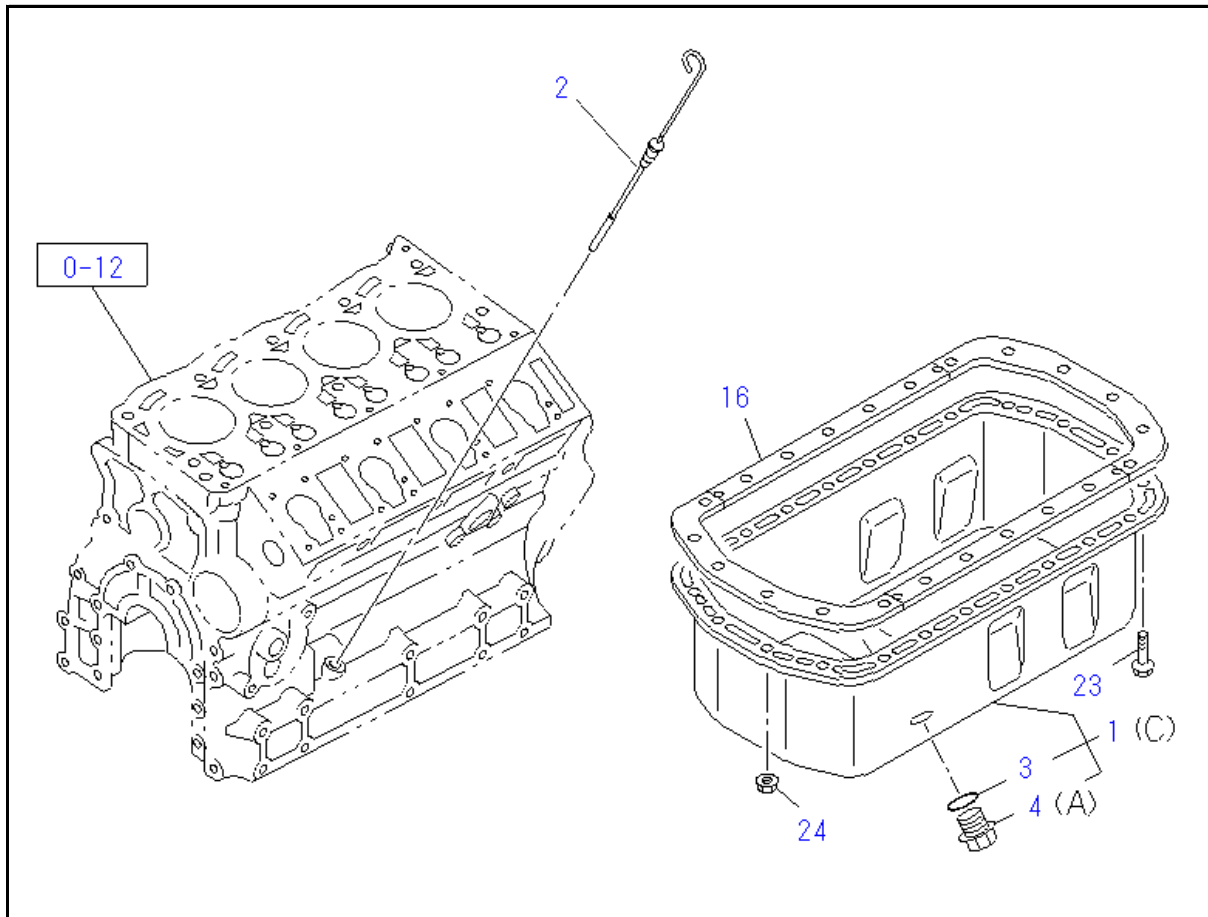
(No.2)



0-12 CYLINDER BLOCK

KEY No.	Part no.	qty	Part description	Engine serial no.
1	8-97369-555-6	1	BLOCK ASM; CYL	
6 (A)	8-94229-853-0	5	CUP; SEALING OD=35	
6 (B)	8-97209-609-0	1	CUP; SEALING OD=22	
8	8-94167-470-1	10	BOLT; BRG CAP	
15 (A)	9-09204-510-0	1	PLUG; OIL GALLERY PT1/8	
15 (B)	1-09605-019-0	1	PLUG; OIL GALLERY PT1/4	
15 (C)	8-97369-552-1	1	PLUG; OIL GALLERY PT1/8	
54	0-41010-616-0	4	STUD; OIL PAN TO BLOCK M6X16 L=25	
61 (A)	9-08150-616-0	8	PIN; STRAIGHT OD=6 L=16	
83	9-08150-816-0 <9-08160-816-0>	2	PIN; FLYWHEEL HSG	
89	5-09600-013-0	4	CUP; SEALING OD=12.3	
114	5-13721-028-1	1	NIPPLE; WATER DRAIN	
141	0-28080-614-0	6	BOLT; COVER M6X14 FLANGE	
144	8-97329-622-0	2	NUT; COVER FIX	
205 (A)	1-09305-005-0	8	STUD; PUMP HOLE M8X20 L=32	
232	8-97262-145-1	1	STUD; WATER PUMP M8X40 L=52	
297	8-97118-989-2	1	COVER; CYL BLOCK	
300	8-97262-147-1	1	STUD; COVER M6X16 L=25	
300	8-97262-148-1	1	STUD; COVER M6X19 L=27	
416 (A)	8-94325-595-0	1	STUD; OIL FILTER	
439	8-97047-056-0	1	BEARING; NEEDLE	
440	8-97039-495-3	2	PIN; CONT LINK	
441 (B)	8-94200-819-0	2	DOWEL; CYL BLOCK OD=15.25	
441 (A)	9-11229-058-1	4	DOWEL; CYL BLOCK OD=11 L=8	
442	8-97047-142-1	1	PLUG; THRUST	
443 (B)	1-09600-012-2	1	CAP; SEALING OD=32	
443 (A)	5-09600-013-0	1	CAP; SEALING OD=12.3	

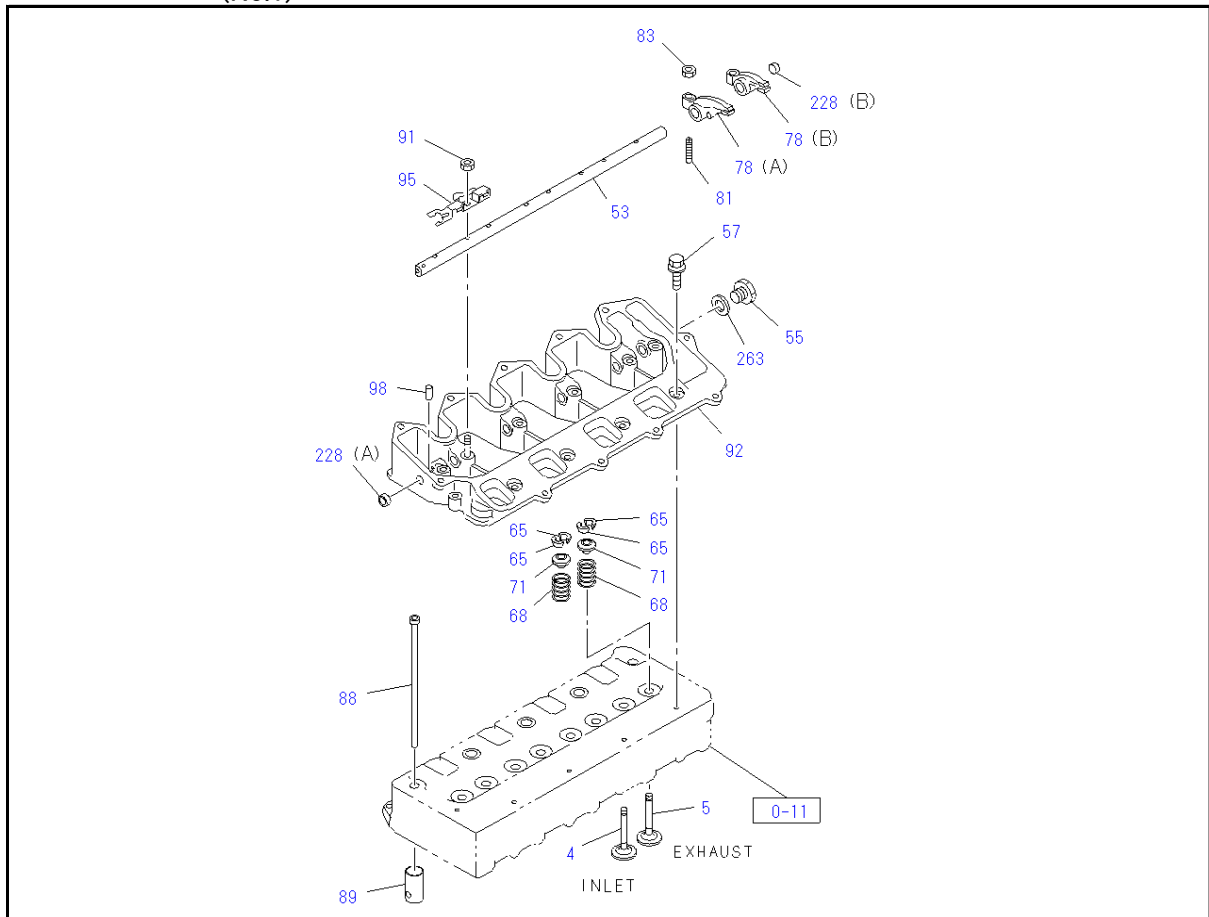
0-13 OIL PAN AND LEVEL GAUGE



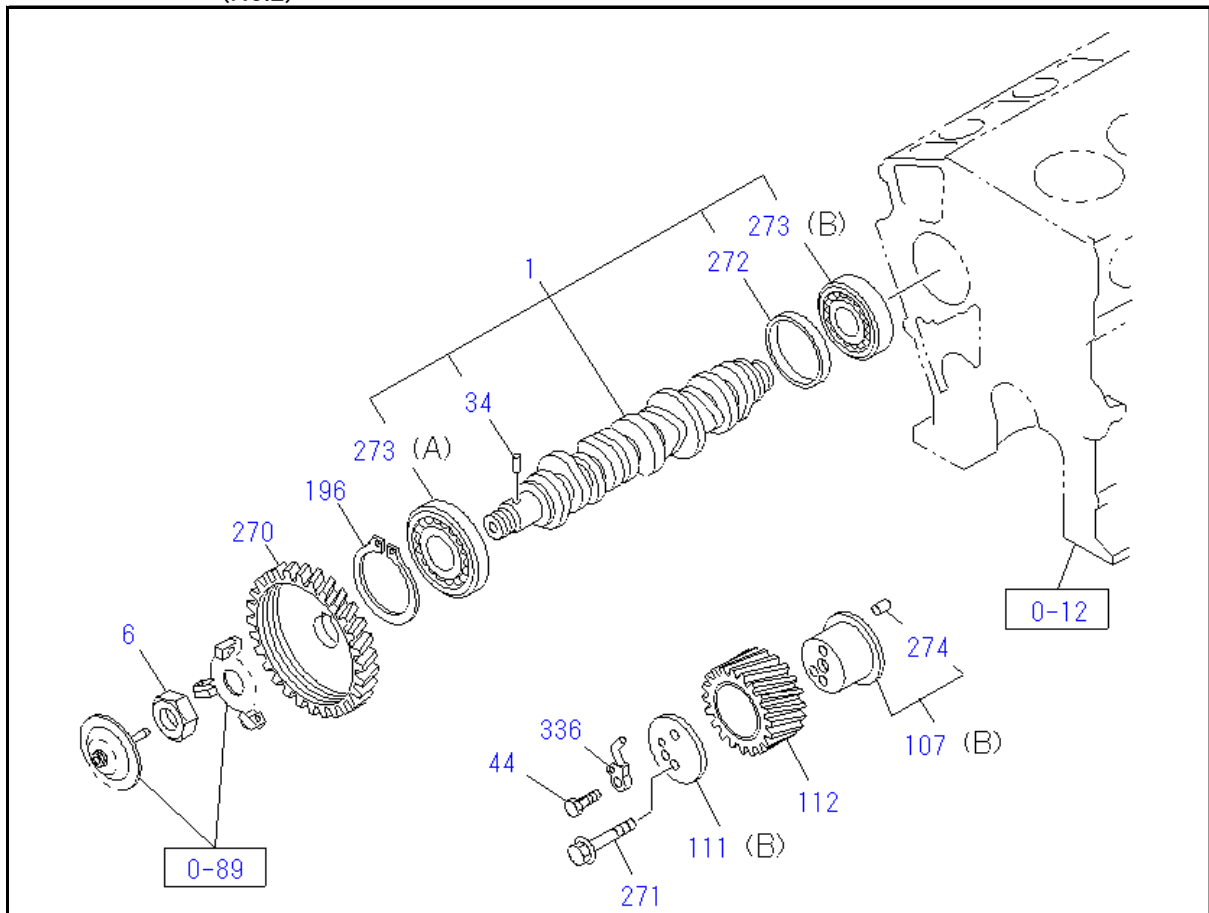
KEY No.	Part no.	qty	Part description	Engine serial no.
1 (C)	8-97171-126-0	1	PAN ASM; OIL	
2	8-94422-595-0	1	GAUGE; OIL LEVEL	
3	1-09623-057-0	1	GASKET; DRAIN PLUG	
4 (A)	9-09662-012-0	1	PLUG; DRAIN M20X16.5	
16	8-97314-914-0	1	GASKET; OIL PAN TO C/BL	
23	8-97135-141-0	18	BOLT; OIL PAN M6X13 W/WASHER	
24	8-97329-622-0	4	NUT; OIL PAN M6 W/LK WASHER	

0-14 CAMSHAFT AND VALVE

(No.1)



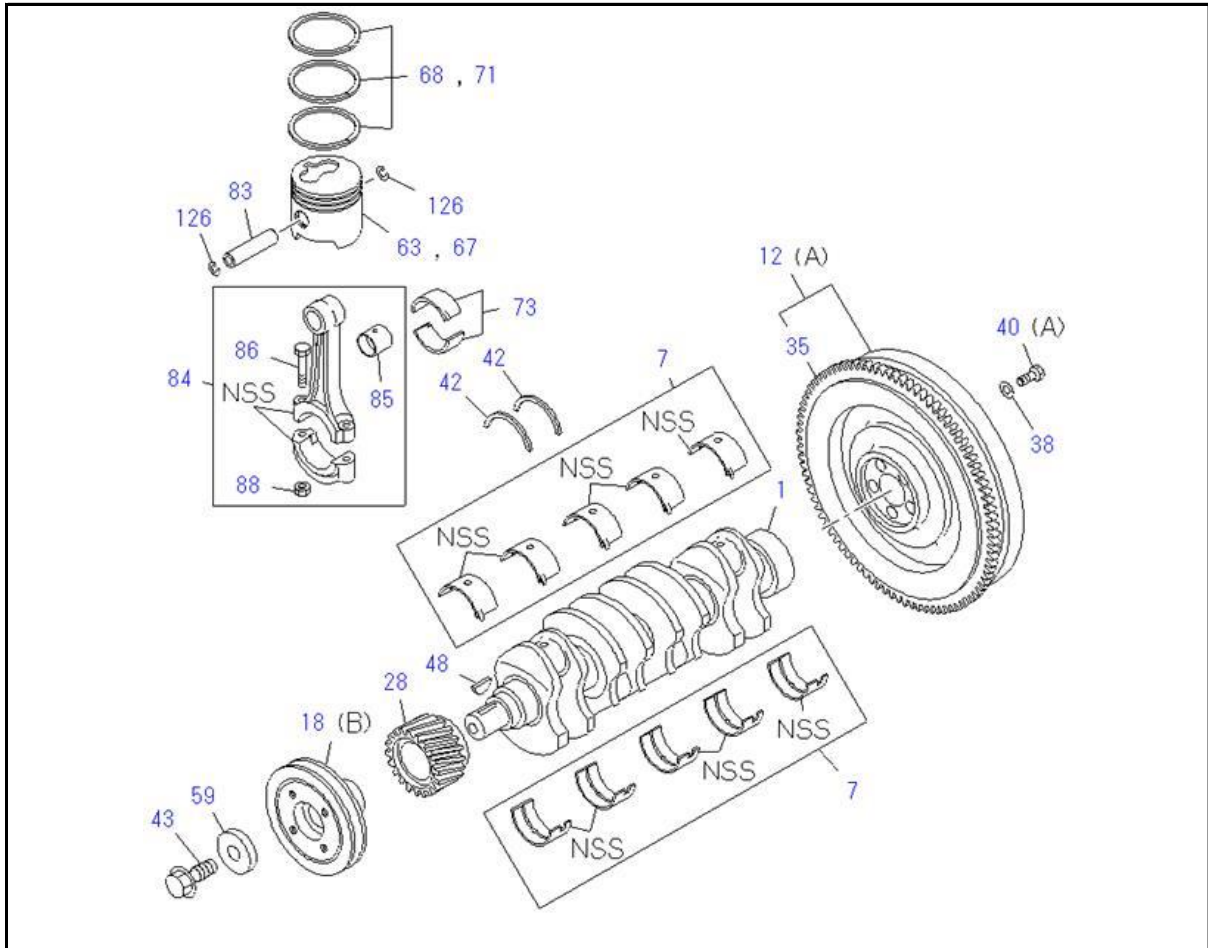
(No.2)



0-14 CAMSHAFT AND VALVE

KEY No.	Part no.	qty	Part description	Engine serial no.
1	8-97145-198-1	1	CAMSHAFT	
4	8-97102-123-1	4	VALVE; INL	
5	8-97045-410-3	4	VALVE; EXH	
6	8-97303-225-0	1	NUT; CM/SHF GEAR	
34	9-09878-626-0	1	PIN; CM/SHF OD=5 L=6	
44	9-09906-205-1	1	BOLT; OIL JET	
53	8-97118-656-1	1	SHAFT; ROCKER ARM	
55	8-98042-944-0	1	PLUG; ROCKER SHAFT END M14X9	
57	0-28050-625-0	5	BOLT; ROCKER ARM BRKT M6X25 FLANGE	
57	0-28050-650-0	5	BOLT; ROCKER ARM BRKT M6X50 FLANGE	
65	8-94239-501-0	16	COLLAR; SPLIT	
68	8-97034-629-1	8	SPRING; VLV	
71	8-94251-031-1	8	SEAT; SPR	
78 (A)	8-97212-518-0	4	ARM; ROCKER INLET	
78 (B)	8-97212-520-0	4	ARM; ROCKER EXHAUST	
81	8-97010-485-0	8	SCREW; ADJ	
83	0-91111-506-0	8	NUT; ADJ SCREW,LK	
88	8-98273-084-0	8	ROD; PUSH	
89	8-97034-630-1 <8-98257-766-0>	8	TAPPET; VLV	
91	8-97137-836-0	6	NUT; ROCKER SHAFT M6 W/LK WASHER	
92	8-97118-196-7	1	BRACKET; ROCKER ARM	
95	8-97070-698-2	4	SPRING; ROCKER SHAFT	
98	9-08150-516-0	1	PIN; SHAFT SET OD=5	
107 (B)	8-97310-122-2	1	SHAFT; IDLE GEAR	
111 (B)	8-97310-177-1	1	COLLAR; THRUST	
112	8-97129-782-0	1	GEAR; IDLE	
196	9-09180-162-0	1	RING; SNAP	
228 (A)	5-09600-013-0 <9-11129-083-0>	1	CUP; SEALING OD=12	
228 (B)	8-97233-429-0	1	CUP; SEALING OD=8	
263	9-09571-414-0	1	GASKET; CAM END ID=14.2 OD=20.0	
270	8-97102-288-2	1	GEAR; INJ PUMP & VLV	
271	0-28060-845-0	2	BOLT; COLLAR M8X45 FLANGE	
272	8-97062-048-0	1	RING; CAMSHAFT	
273 (A)	9-00090-610-0	1	BEARING; CAMSHAFT FRONT	
273 (B)	9-00090-657-0	1	BEARING; CAMSHAFT REAR	
274	9-08160-510-0	1	PIN; IDLE SHAFT	
336	8-97310-125-2	1	PIPE; OIL JET	

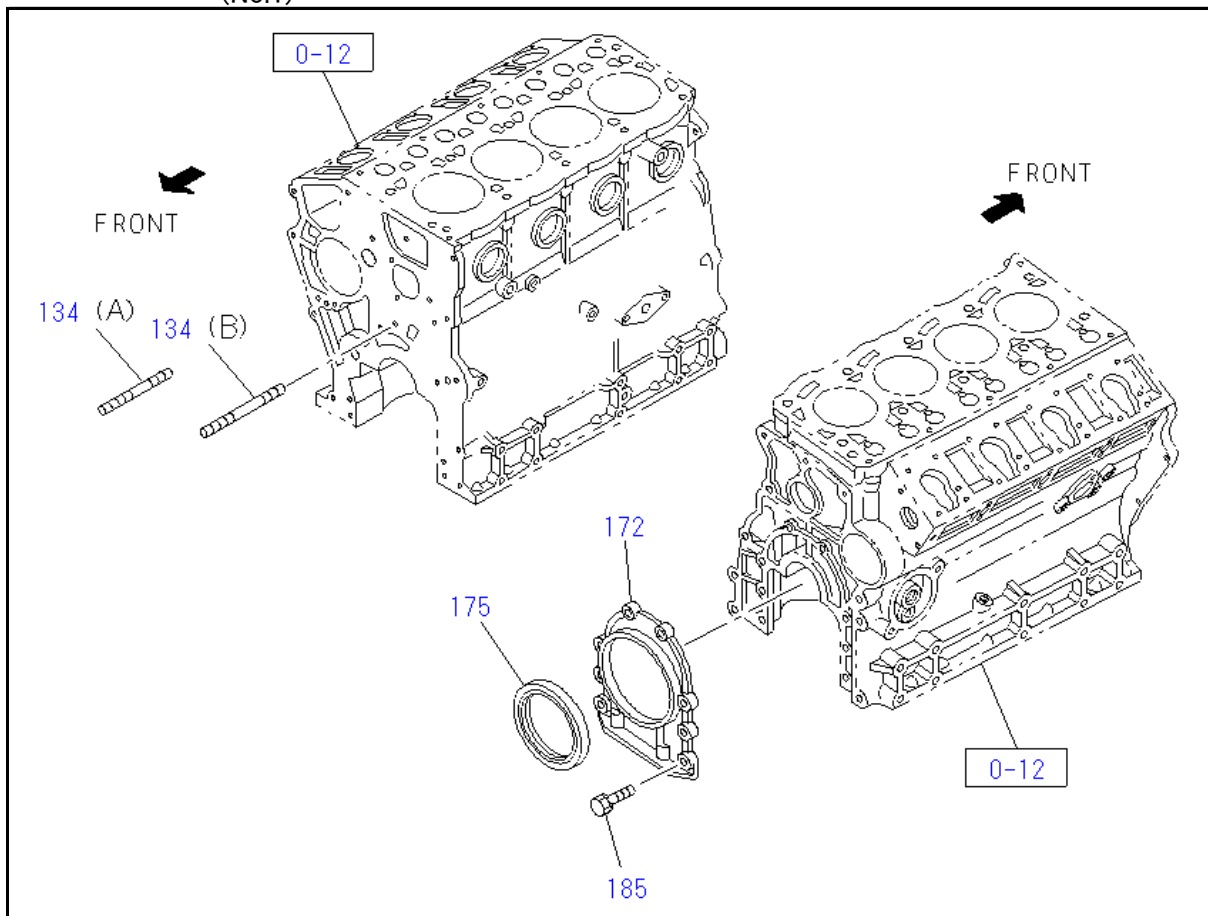
0-15 CRANKSHAFT,PISTON AND FLYWHEEL



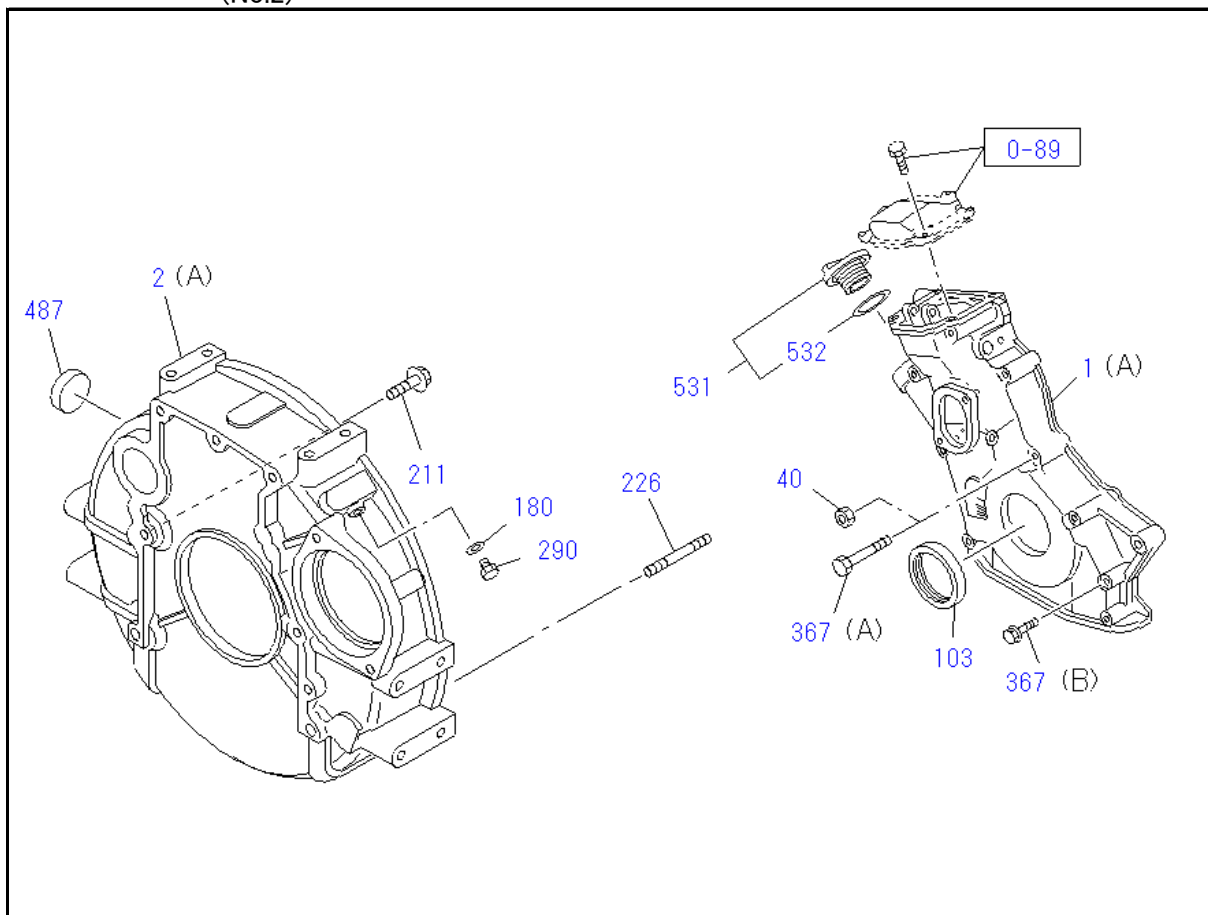
KEY No.	Part no.	qty	Part description	Engine serial no.
1	8-97115-177-2	1	CRANKSHAFT	
7	8-98089-084-0	1	METAL KIT; CRANKSHAFT,STANDARD	
12 (A)	8-97164-530-0	1	FLYWHEEL	
18 (B)	8-97226-830-1	1	PULLEY; CR/SHF	
28	8-97328-612-0	1	GEAR; CR/SHF	
35	8-94419-602-1	1	GEAR; RING	
38	8-97023-268-0	6	WASHER; FLYWHEEL	
40 (A)	8-94133-328-1	6	BOLT; FLYWHEEL	
42	8-98063-783-0	2	WASHER; THRUST,CR/SHF	
43	8-94386-079-0	1	BOLT; CR/SHF PULLEY	
48	8-94201-641-0	1	KEY; WOODRUFF	
59	8-94134-792-0	1	WASHER; CR/SHF PULLEY	
63	8-97257-876-0	4	PISTON NON GRADE	
67	8-97257-875-0	4	PISTON; O/S=0.25	
68	8-97141-208-0	4	RING SET; PISTON	
71	8-97141-209-0	4	RING SET; PISTON	
73	8-98051-928-0	4	METAL SET; CONN ROD,STANDARD	
83	5-12211-018-0	4	PIN; PISTON	
84	8-97310-351-0	4	ROD ASM; CONN	
85	8-97310-352-0	4	BUSHING; CONNROD	
86	8-94216-206-4	8	BOLT; CONNROD	
88	8-94224-236-2	8	NUT; CONNROD	
126	8-94114-049-1	8	RING; SNAP T=1.7 OD=27.8	

0-20 TIMING GEAR CASE AND FLYWHEEL HOUSING

(No.1)



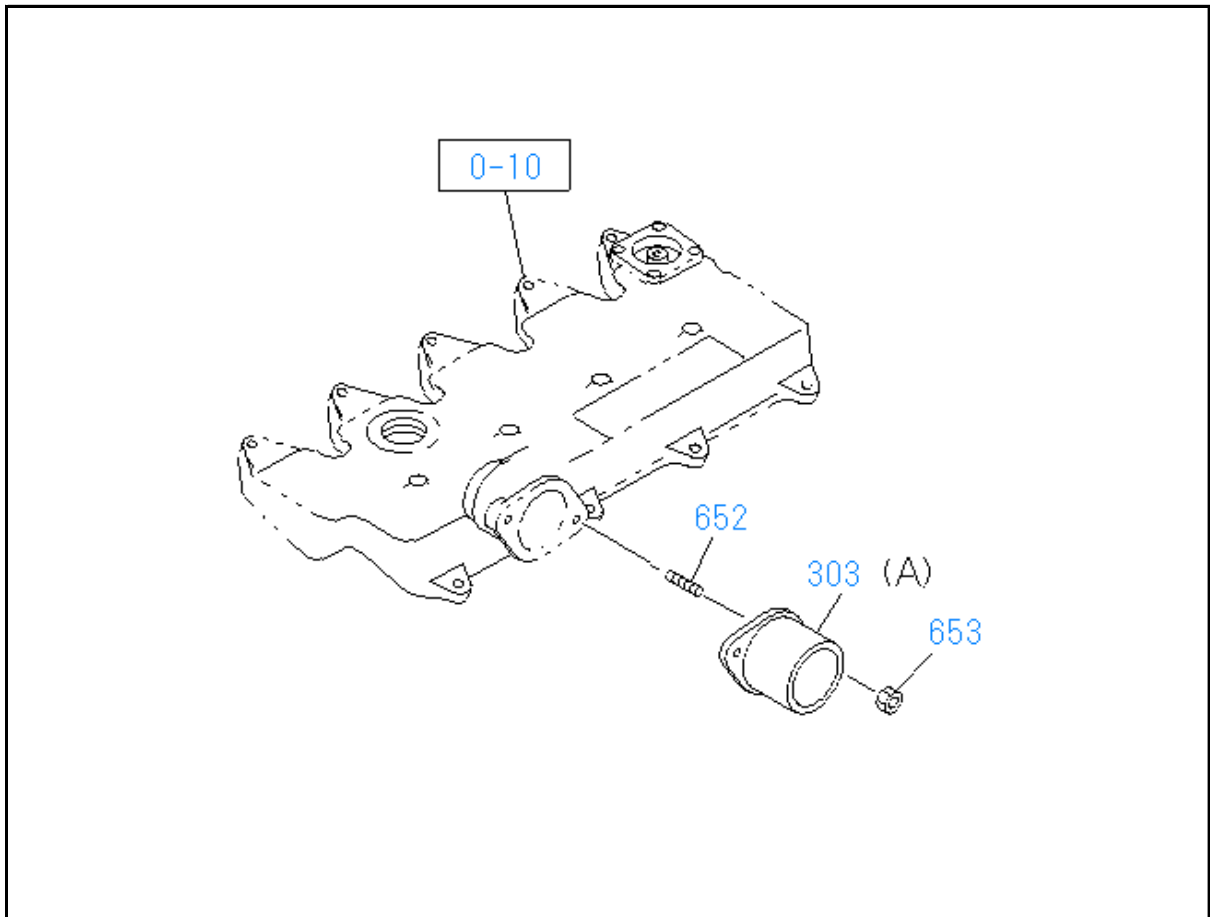
(No.2)



0-20 TIMING GEAR CASE AND FLYWHEEL HOUSING

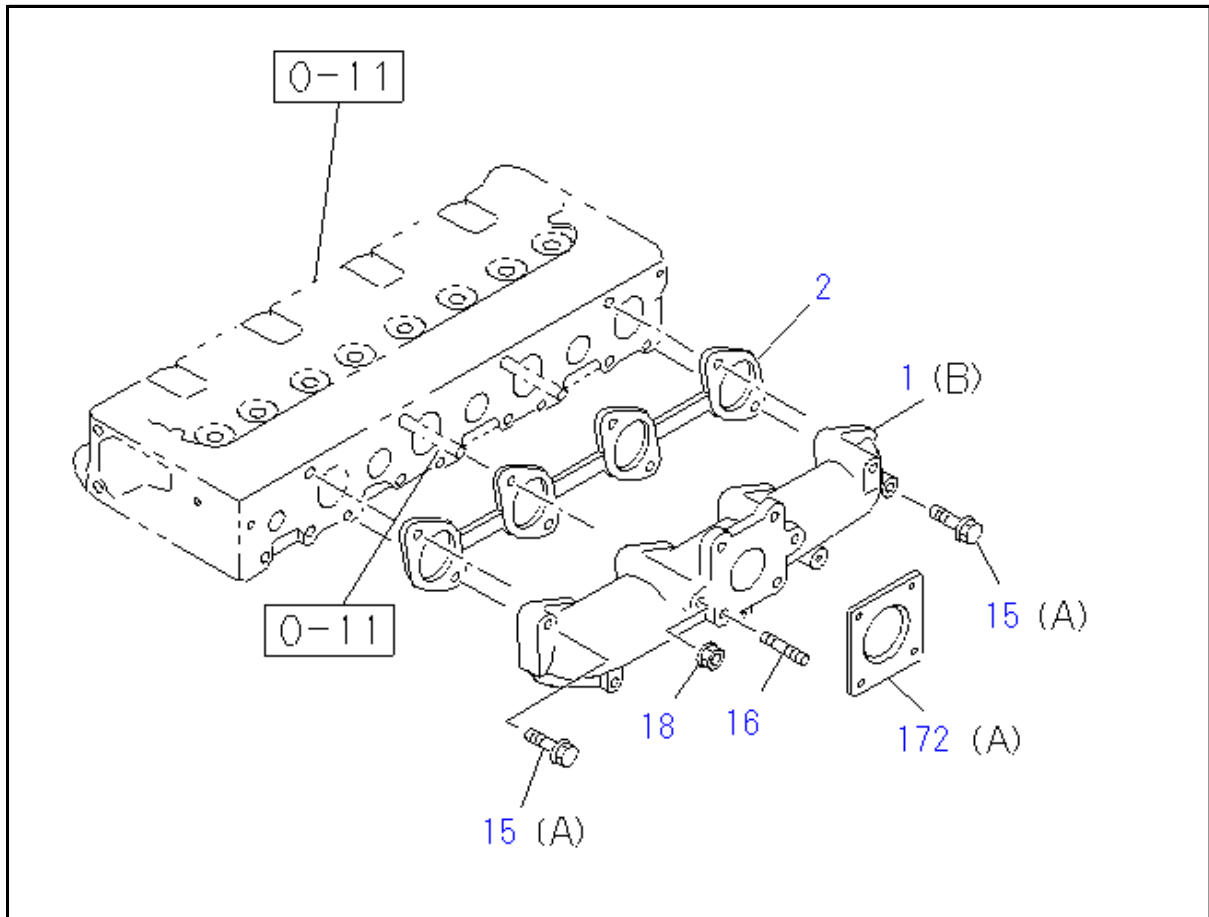
KEY No.	Part no.	qty	Part description	Engine serial no.
1 (A)	8-97303-411-2	1	CASE; TIMING GEAR	
2 (A)	8-97047-023-5	1	HOUSING; FLYWHEEL	UP to 171690
2 (A)	8-97304-046-1	1	HOUSING; FLYWHEEL	171691 - UP
40	0-91180-208-0	2	NUT; GEAR CASE M8 FLANGE	
103	8-97049-145-0 <5-09625-079-0>	1	SEAL; OIL	
134 (B)	8-97262-146-1	1	STUD; TIMING GEAR CASE M8X50 L=62	
134 (A)	0-41010-860-0	1	STUD; TIMING GEAR CASE M8X60 L=72	
172	8-97231-030-2	1	RETAINER; CR/SHF	
175	5-09625-094-0	1	SEAL; OIL	
180	9-09571-416-0	1	GASKET; PLUG	
185	0-28050-620-0	8	BOLT; RET TO C/BL M6X20 FLANGE	
211	0-28151-025-0	4	BOLT; HSG M10X25 FLANGE	
226	8-94127-703-0	2	STUD; HSG M10X111 L=126	
290	0-92002-416-0 <9-99202-316-0>	1	PLUG; SENSOR HOLE M16X12	
367 (A)	0-28050-880-0	2	BOLT; GEAR CASE M8X80 FLANGE	
367 (B)	0-28060-860-0	6	BOLT; GEAR CASE M8X60 FLANGE	
487	8-97220-740-0	1	COVER; HOLE	
531	8-94425-685-2	1	CAP; OIL FILLER	
532	8-94123-623-1	1	GASKET; CAP ID=32 OD=40	

0-25 INLET MANIFOLD



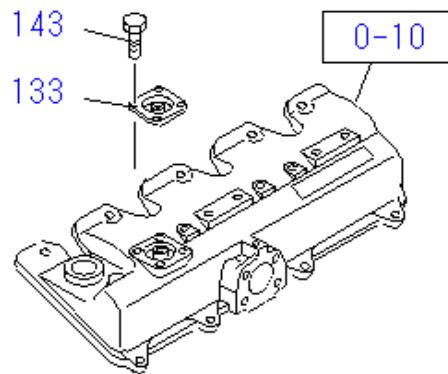
KEY No.	Part no.	qty	Part description	Engine serial no.
303 (A)	8-97239-594-0	1	PIPE; AIR	
652	0-41010-616-0	2	STUD; DUCT M6X16 L=25	
653	8-97329-622-0	2	NUT; DUCT M6 W/LK WASHER	

0-27 EXHAUST MANIFOLD



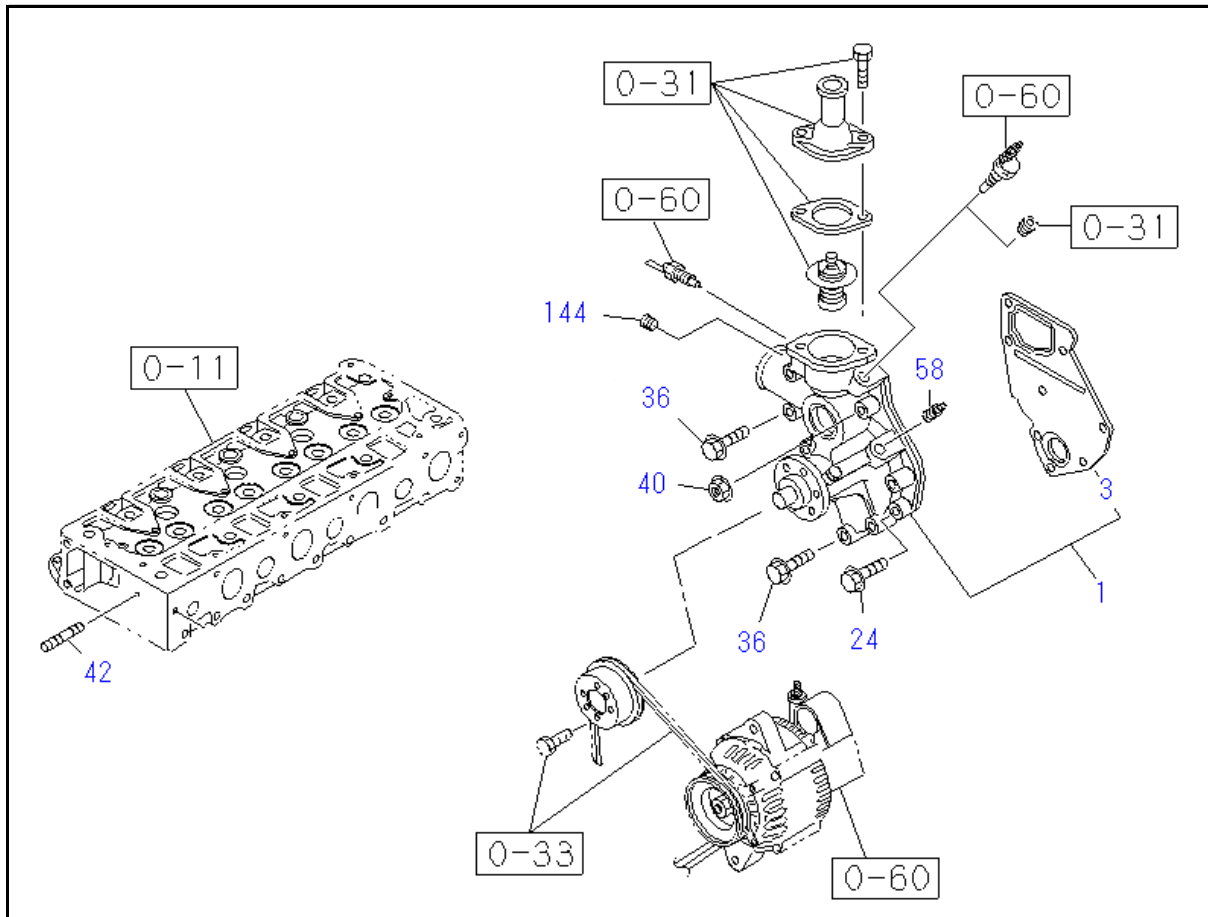
KEY No.	Part no.	qty	Part description	Engine serial no.
1 (B)	8-97117-590-1	1	MANIFOLD; EXHAUST	
2	8-97126-186-0	1	GASKET; EXH MANIF TO HD	
15 (A)	0-28050-870-0	6	BOLT; EXH MANIF M8X70 FLANGE	
16	0-41010-820-0	4	STUD; EXH PIPE TO MANIF M8X20 L=32	
18	0-91180-208-0	2	NUT; EXH MANIF M8 FLANGE	
172 (A)	8-97042-028-0	1	GASKET; EXH PIPE	

0-28 VENTILATION SYSTEM



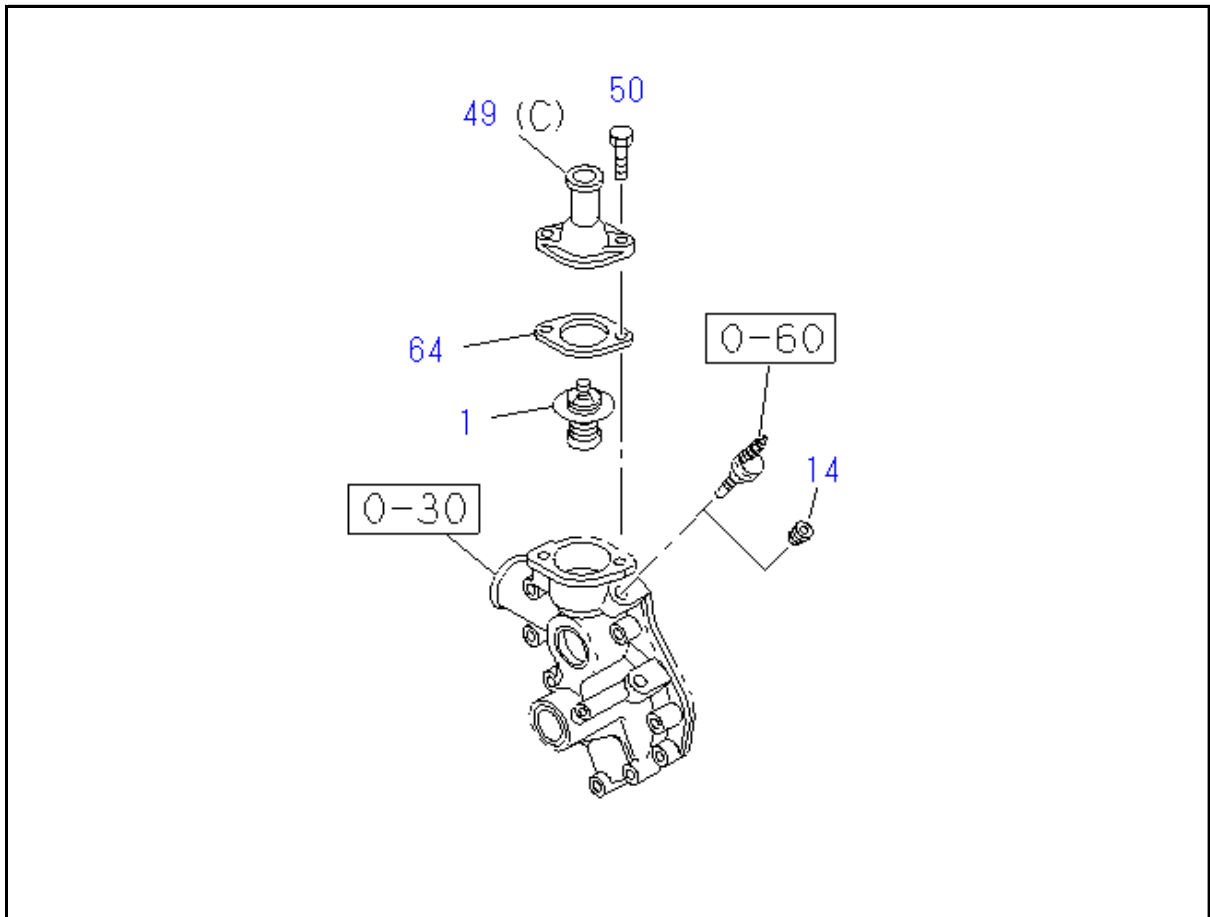
KEY No.	Part no.	qty	Part description	Engine serial no.
133	8-94329-549-0	1	VALVE; PCV	
143	0-36220-410-0	4	SCREW; PCV COVER M4X10	

0-30 WATER PUMP AND CORROSION RESISTOR



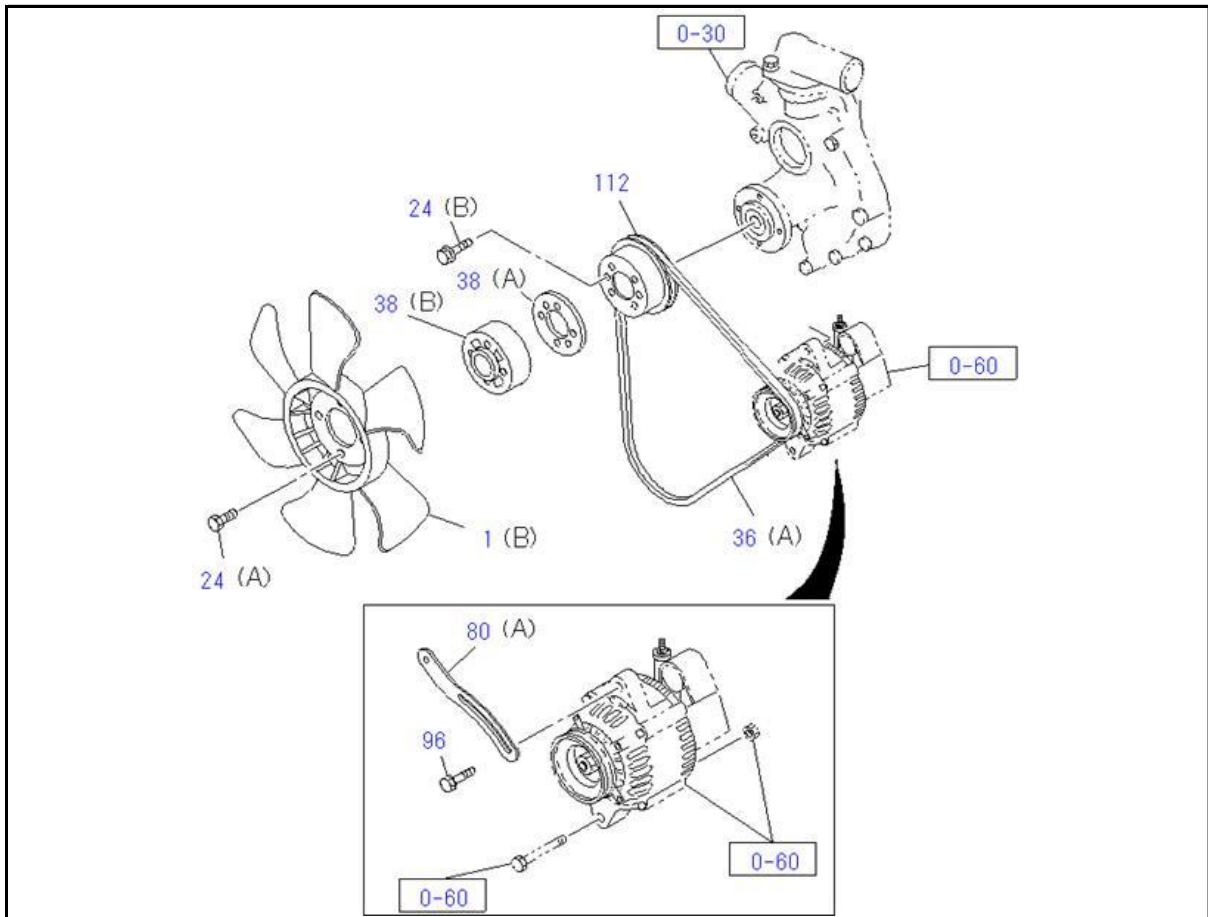
KEY No.	Part no.	qty	Part description	Engine serial no.
1	8-98126-231-3	1	PUMP ASM; WATER	
3	8-97289-543-0	1	GASKET; PUMP TO C/BL	
24	0-28050-845-0	1	BOLT; WATER PUMP M8X45 FLANGE	
36	0-28050-840-0	2	BOLT; WATER PUMP TO C/BL M8X40 FLANGE	
36	0-28060-860-0	2	BOLT; WATER PUMP TO C/BL M8X60 FLANGE	
40	0-91180-208-0	2	NUT; WATER PUMP M8 FLANGE	
42	0-41010-845-0	1	STUD; WATER PUMP M8X45 L=57	
58	5-09605-005-0	1	PLUG; HTR PT3/8	
144	8-97369-552-1	1	PLUG; THERMOMETER	

0-31 THERMOSTAT AND HOUSING



KEY No.	Part no.	qty	Part description	Engine serial no.
1	8-97211-209-0	1	THERMOSTAT 82 CELSIUS	
14	5-09605-005-0	1	PLUG; SW PT3/8	
49 (C)	8-97169-015-1	1	PIPE; WATER OUTLET	
50	0-28650-825-0	2	BOLT; OUTLET PIPE M8X25 FLANGE	
64	8-97264-690-1	1	GASKET; OUTLET PIPE TO HSG	

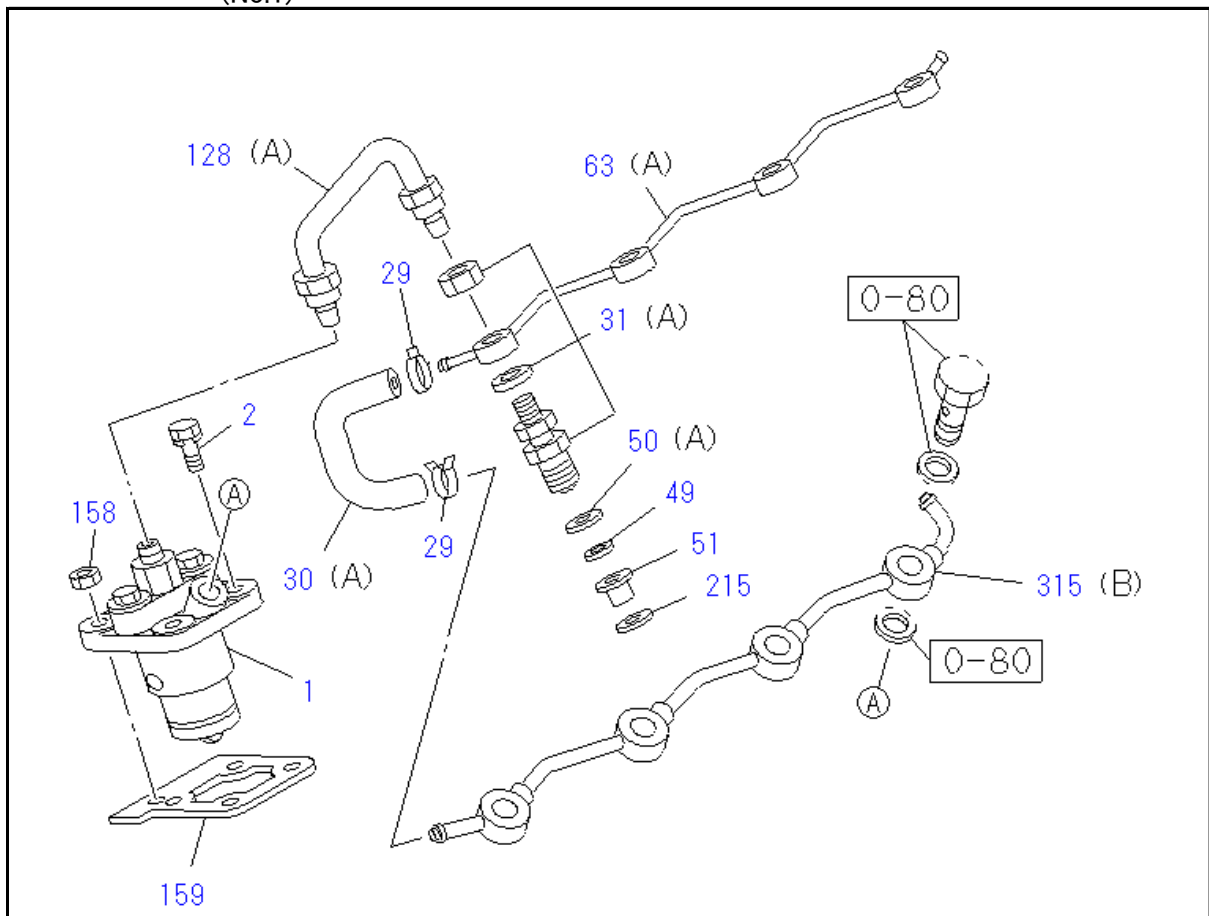
0-33 FAN AND FAN BELT



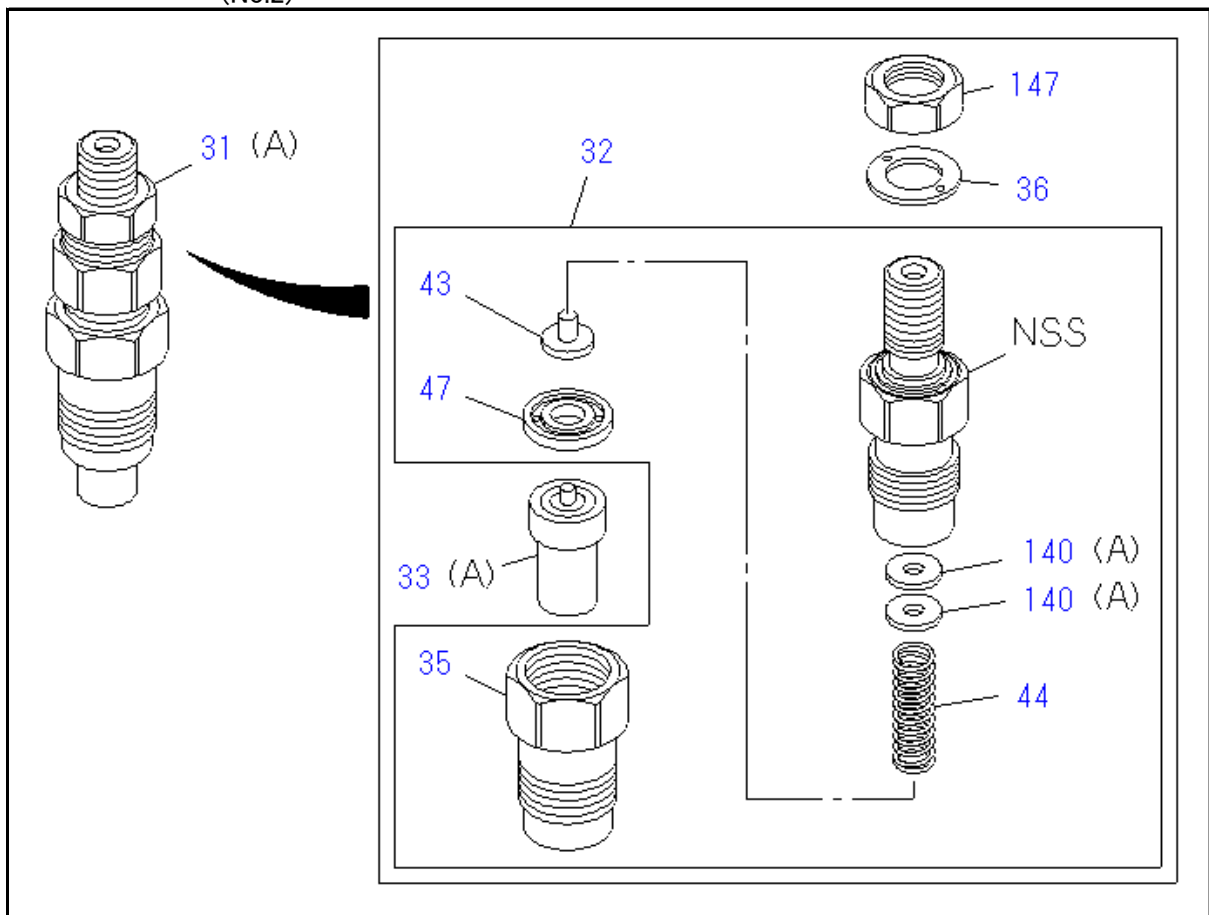
KEY No.	Part no.	qty	Part description	Engine serial no.
1 (B)	8-94483-894-1	1	FAN; COOLING D=430-6-BLOW	
24 (B)	0-20800-612-0	2	BOLT; FAN M6X12	
24 (A)	0-28050-845-0	4	BOLT; FAN M8X45 FLANGE	
36 (A)	8-97224-999-1	1	BELT; COOLING FAN L=855 BANDO	
38 (A)	8-97063-400-3	1	SPACER; FAN ID=32 OD=70 T=4.5	
38 (B)	9-89136-423-0	1	SPACER; FAN H=35.5	
80 (A)	5-13674-104-1	1	PLATE; ADJ	
96	0-28050-820-0 <0-28080-820-0>	1	BOLT; ADJ PLATE M8X20 FLANGE	UP to 172250
96	0-28050-830-0	1	BOLT; ADJ PLATE M8X30 FLANGE	172251 - UP
112	8-97226-855-0	1	PULLEY; FAN CENTER 1-GROOVE OD=110	

0-40 FUEL INJECTION SYSTEM

(No.1)



(No.2)

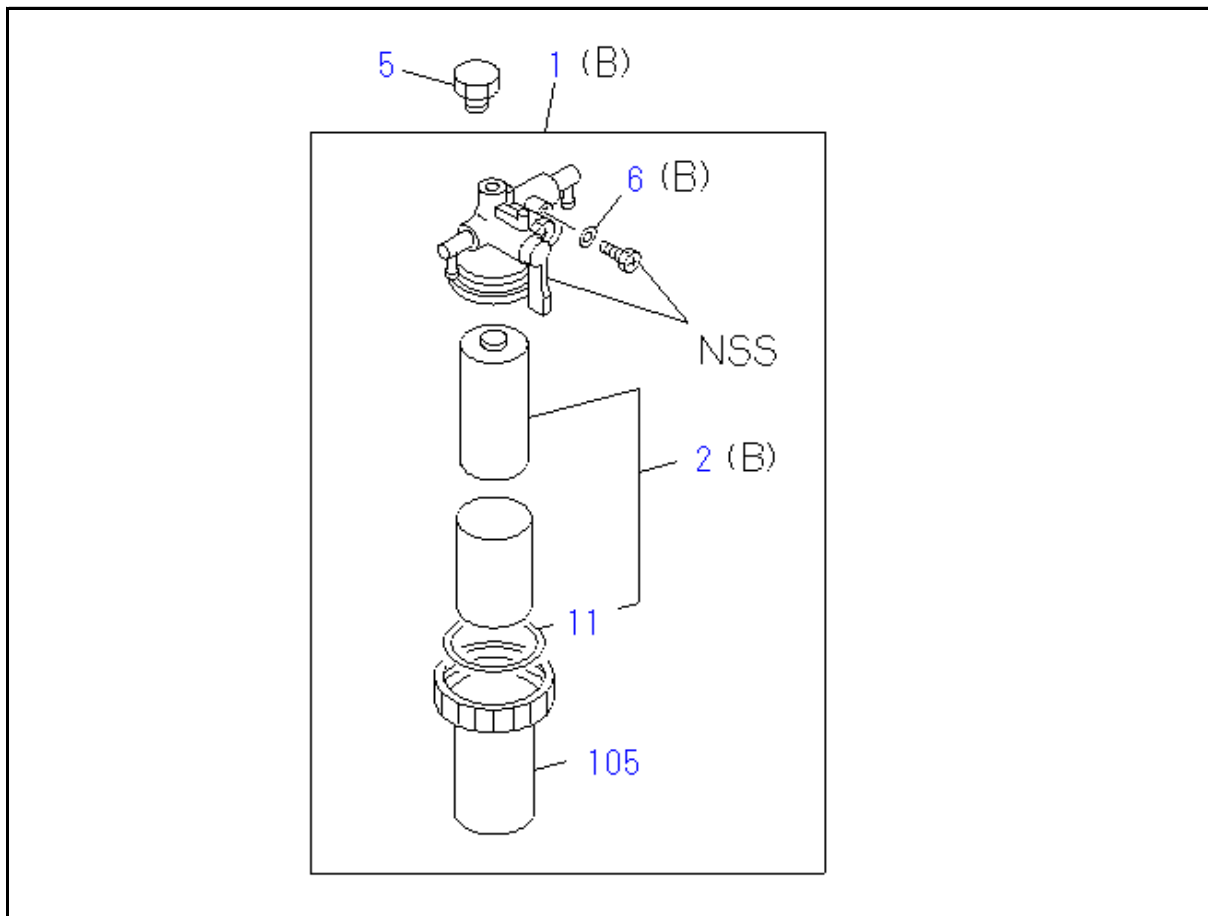


0-40 FUEL INJECTION SYSTEM

KEY No.	Part no.	qty	Part description	Engine serial no.
1	8-97143-332-1	4	PUMP ASM; INJ	
2	0-28050-820-0	8	BOLT; INJ PUMP M8X20 FLANGE	
29	1-09707-087-0 <5-09707-005-1>	2	CLIP; HOSE ID=11 WHITE	
30 (A)	8-97046-794-1	1	HOSE; RUBBER	
31 (A)	8-97079-976-1	4	NOZZLE ASM; INJ	
32	8-97090-842-1	4	HOLDER ASM; NOZZLE	
33 (A)	8-94130-532-0	4	NOZZLE; INJ	
35	8-97130-581-0	4	NUT; NOZZLE RET	
36	8-94104-993-0	4	GASKET; RETURN PIPE	
43	8-94128-963-1	4	SEAT; NOZZLE SPRING	
44	8-94128-964-0	4	SPRING; NOZZLE	
47	8-97083-358-0	4	SPACER; NOZZLE SPRING	
49	8-94106-040-3	4	WASHER; CORRUGATED	
50 (A)	8-94257-592-0	4	GASKET; NOZZLE HOLDER	
51	8-94106-055-1	4	SHIELD; HEAT	
63 (A)	8-97126-188-0	1	PIPE; FUEL	
128 (A)	8-97145-559-0	4	PIPE ASM; INJ	
140 (A)	8-94176-962-0	1	SHIM; NOZZLE SPRING T=0.10	
140 (A)	8-94176-963-0	1	SHIM; NOZZLE SPRING T=0.20	
140 (A)	8-94176-964-0	1	SHIM; NOZZLE SPRING T=0.30	
140 (A)	8-94176-965-0	1	SHIM; NOZZLE SPRING T=0.40	
140 (A)	8-94176-966-0	1	SHIM; NOZZLE SPRING T=0.50	
140 (A)	8-94176-967-0	1	SHIM; NOZZLE SPRING T=0.52	
140 (A)	8-94176-968-0	1	SHIM; NOZZLE SPRING T=0.54	
140 (A)	8-94176-969-0	1	SHIM; NOZZLE SPRING T=0.56	
140 (A)	8-94176-970-0	1	SHIM; NOZZLE SPRING T=0.58	
140 (A)	8-94176-971-0	1	SHIM; NOZZLE SPRING T=0.80	
147	8-94174-344-0	4	NUT; RETURN CONNECTOR	
158	0-91180-208-0	8	NUT; INJ PUMP M8 FLANGE	
159	8-97227-282-1	1	SHIM; INJ PUMP T=0.2	
159	8-97227-283-1	1	SHIM; INJ PUMP T=0.3	
159	8-97227-284-1	1	SHIM; INJ PUMP T=0.4	
159	8-97227-285-1	1	SHIM; INJ PUMP T=0.5	
159	8-97227-286-1	1	SHIM; INJ PUMP T=0.6	
159	8-97227-287-1	1	SHIM; INJ PUMP T=0.7	
159	8-97227-288-1	1	SHIM; INJ PUMP T=0.8	
159	8-98114-445-0	1	SHIM; INJ PUMP T=0.9	

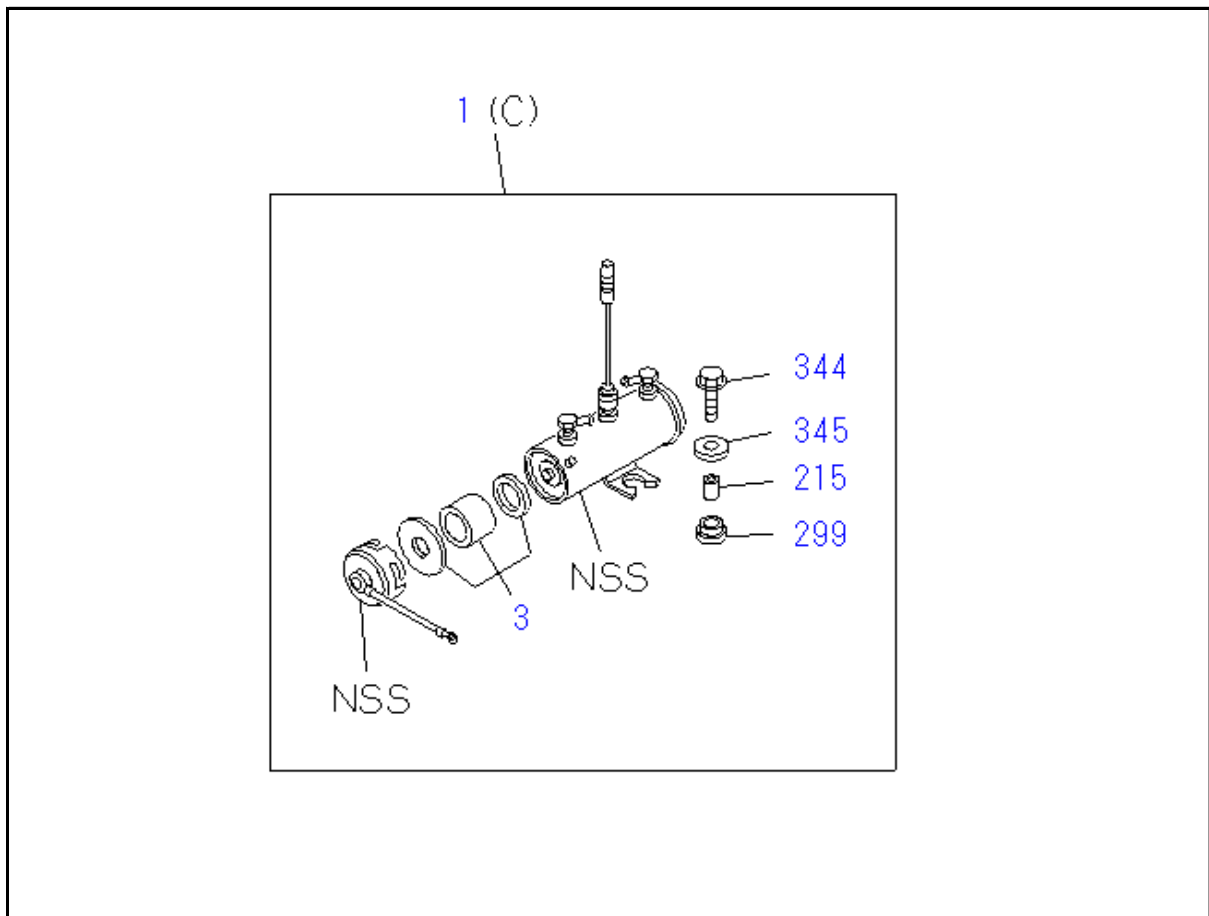
KEY No.	Part no.	qty	Part description	Engine serial no.
159	8-97227-289-1	1	SHIM; INJ PUMP T=1.0	
159	8-98275-925-0	1	SHIM; INJ PUMP T=1.0	
159	8-98114-446-0	1	SHIM; INJ PUMP T=1.1	
159	8-97227-290-1	1	SHIM; INJ PUMP T=1.2	
215	8-94257-593-0	4	GASKET; HEAT SHIELD ID=14.2 OD=17.3	
315 (B)	8-97144-724-0	1	PIPE; FUEL	

0-41 FUEL FILTER AND BRACKET



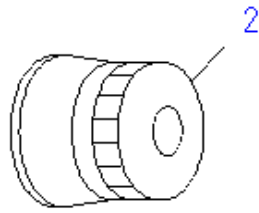
KEY No.	Part no.	qty	Part description	Engine serial no.
1 (B)	8-94401-083-3	1	FILTER ASM; FUEL	
2 (B)	8-97071-348-0	1	ELEMENT KIT; FUEL FILTER	
5	8-98042-944-0	1	BOLT; FUEL FILTER M14X9	
6 (B)	8-97308-988-0	2	GASKET; FUEL FILTER	
11	8-94155-183-0	1	GASKET; CASE TO BODY	
105	8-97042-194-0	1	CASE; FUEL FILTER	

0-42 FUEL PUMP AND PIPE



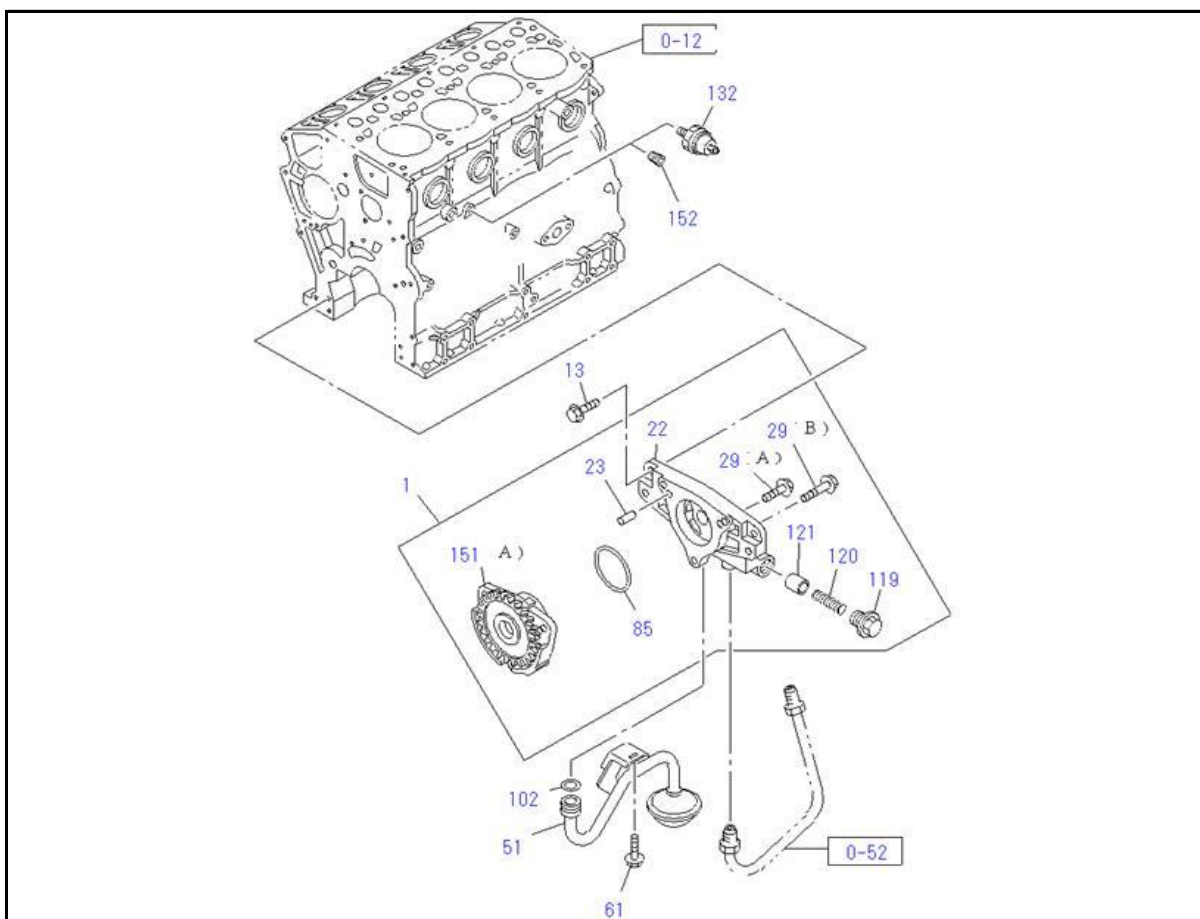
KEY No.	Part no.	qty	Part description	Engine serial no.
1 (C)	8-97240-675-0	1	PUMP ASM; FUEL	
3	8-94437-022-0 <8-94337-022-0>	1	REPAIR KIT; FUEL PUMP	
215	8-97047-265-0	2	COLLAR; MTG FUEL PUMP	
299	8-94233-655-0	2	GROMMET	
344	8-98174-461-0	2	SCREW; PUMP FIX M6X28	
345	8-94233-657-0	2	WASHER; PUMP FIX	

0-50 OIL COOLER AND OIL FILTER



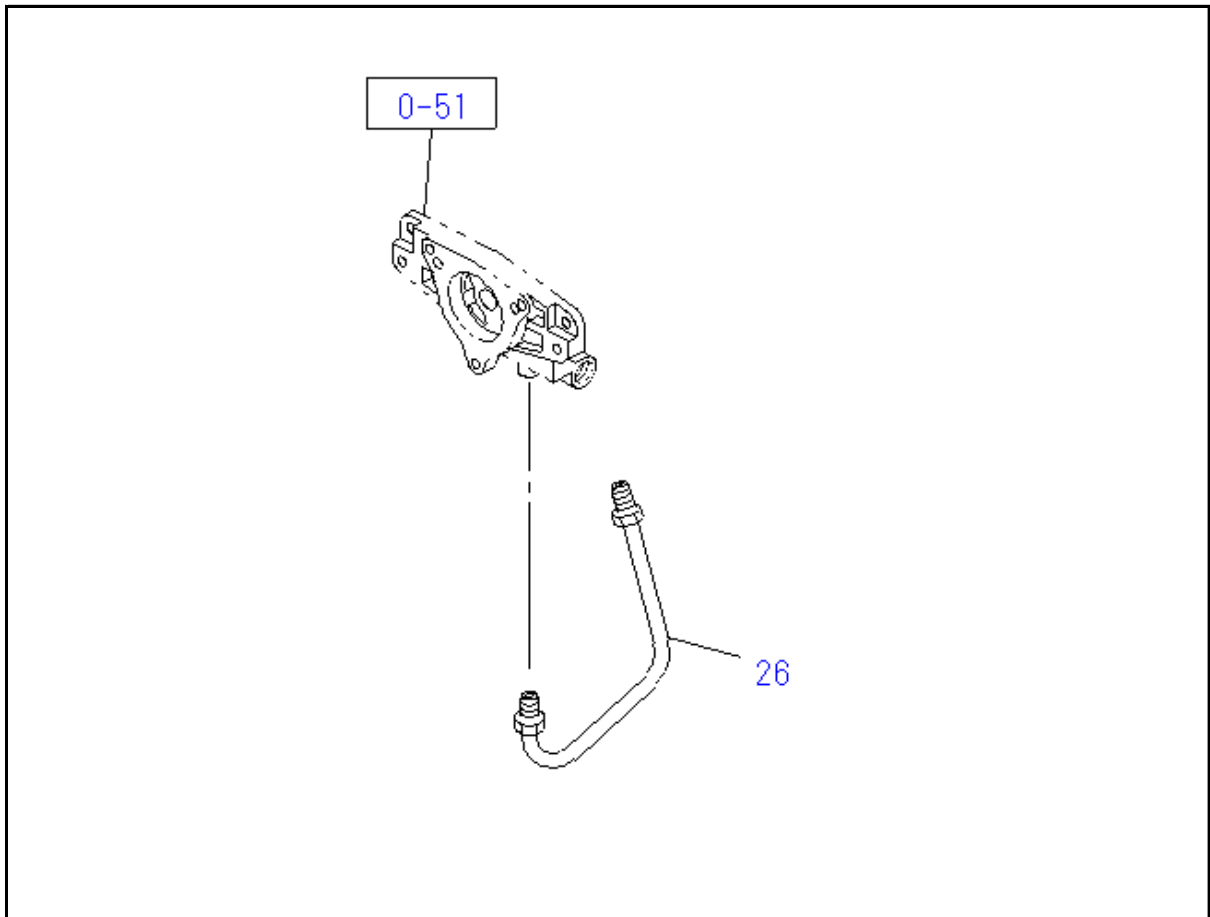
KEY No.	Part no.	qty	Part description	Engine serial no.
2	8-94456-741-2	1	ELEMENT; OIL FILTER	

0-51 OIL PUMP AND OIL STRAINER



KEY No.	Part no.	qty	Part description	Engine serial no.
1	8-97048-809-7 <8-97048-809-8>	1	PUMP ASM; OIL	
13	0-28050-830-0	4	BOLT; OIL PUMP TO C/BL M8X30 FLANGE	
22	8-97048-810-5 <8-97048-810-4>	1	BODY ASM; OIL PUMP	
23	9-08150-616-0	2	PIN; BODY,OIL PUMP	
29 (A)	0-28050-630-0	2	BOLT; OIL PUMP M6X30 FLANGE	
29 (B)	0-28050-650-0	1	BOLT; OIL PUMP M6X50 FLANGE	
51	8-97117-299-0	1	STRAINER & PIPE ASM; OIL	
61	0-28050-816-0	1	BOLT; OIL STRAINER M8X16 FLANGE	
85	8-97109-679-0	1	GASKET; OIL PUMP ID=59.6	
102	1-09623-496-0	1	GASKET; STRAINER	
119	8-94104-615-0	1	PLUG; RELIEF VLV	
120	8-97113-332-0	1	SPRING; RELIEF VLV	
121	8-94235-567-1	1	VALVE; RELIEF	
132	8-98201-472-0 <9-82720-069-0>	1	SWITCH; OIL PRESSURE	
151 (A)	8-97044-813-3	1	PUMP SUB ASM; OIL ROTOR T=15	
152	8-97369-552-1	1	PLUG PT1/8	

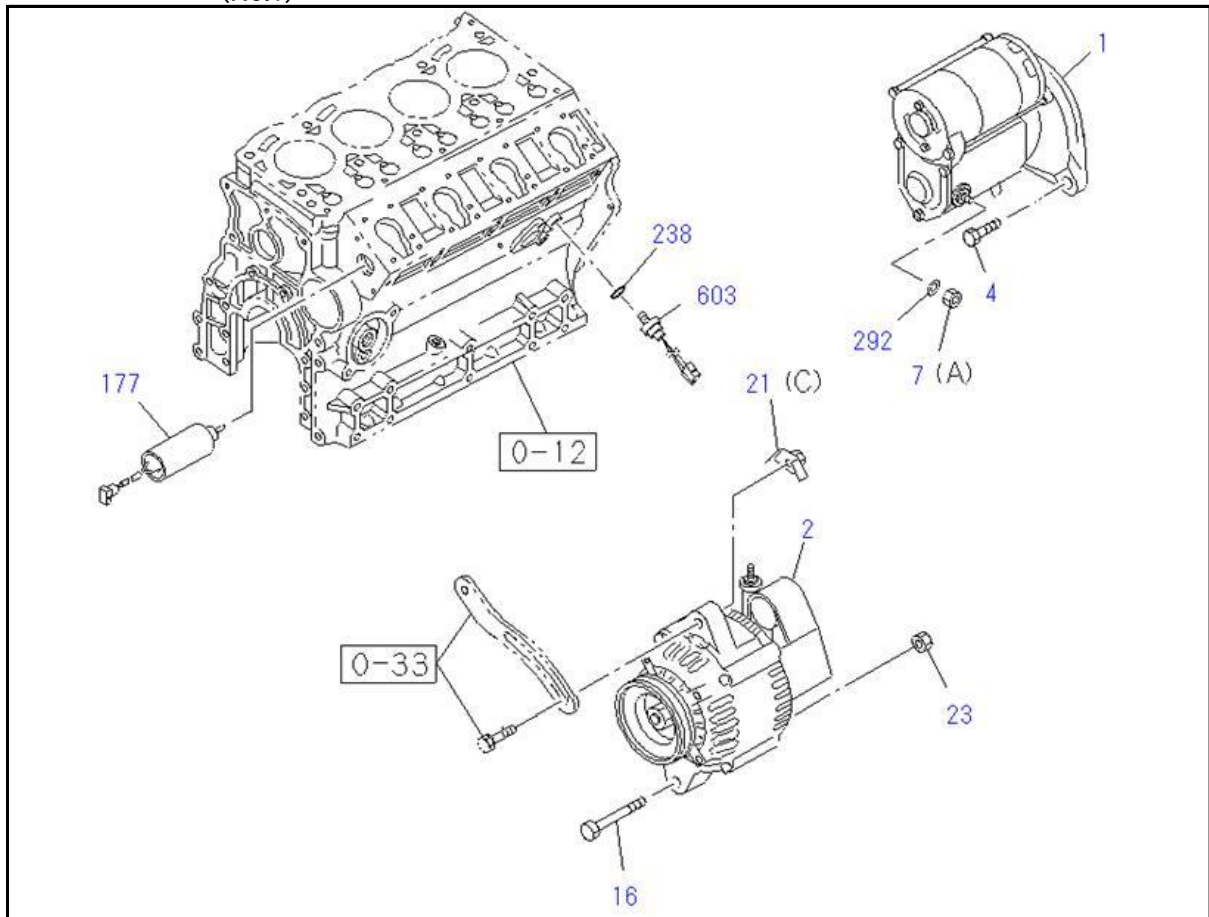
0-52 OIL AND VACUUM PIPING; ENGINE



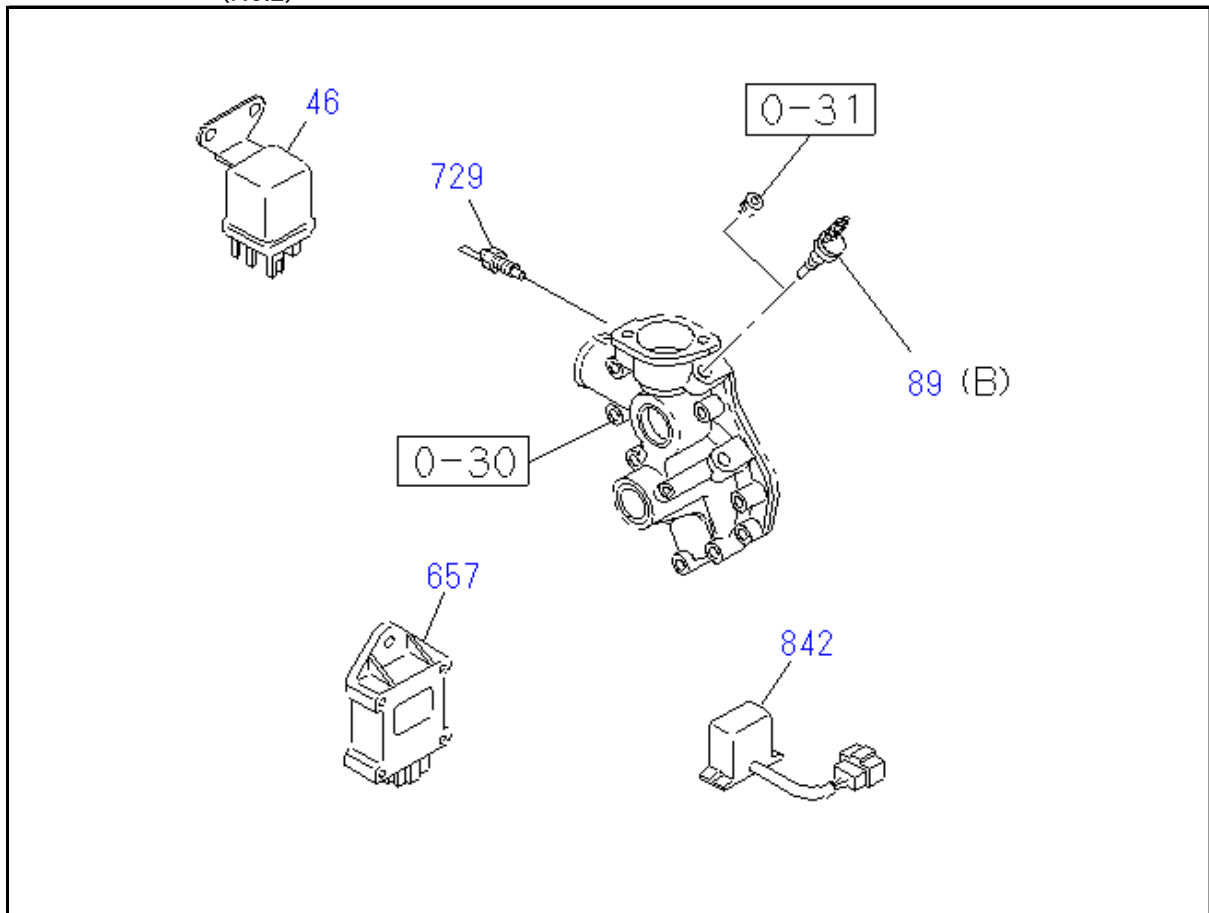
KEY No.	Part no.	qty	Part description	Engine serial no.
26	8-97045-400-0	1	PIPE; OIL	

0-60 ENGINE ELECTRICAL CONTROL PARTS

(No.1)



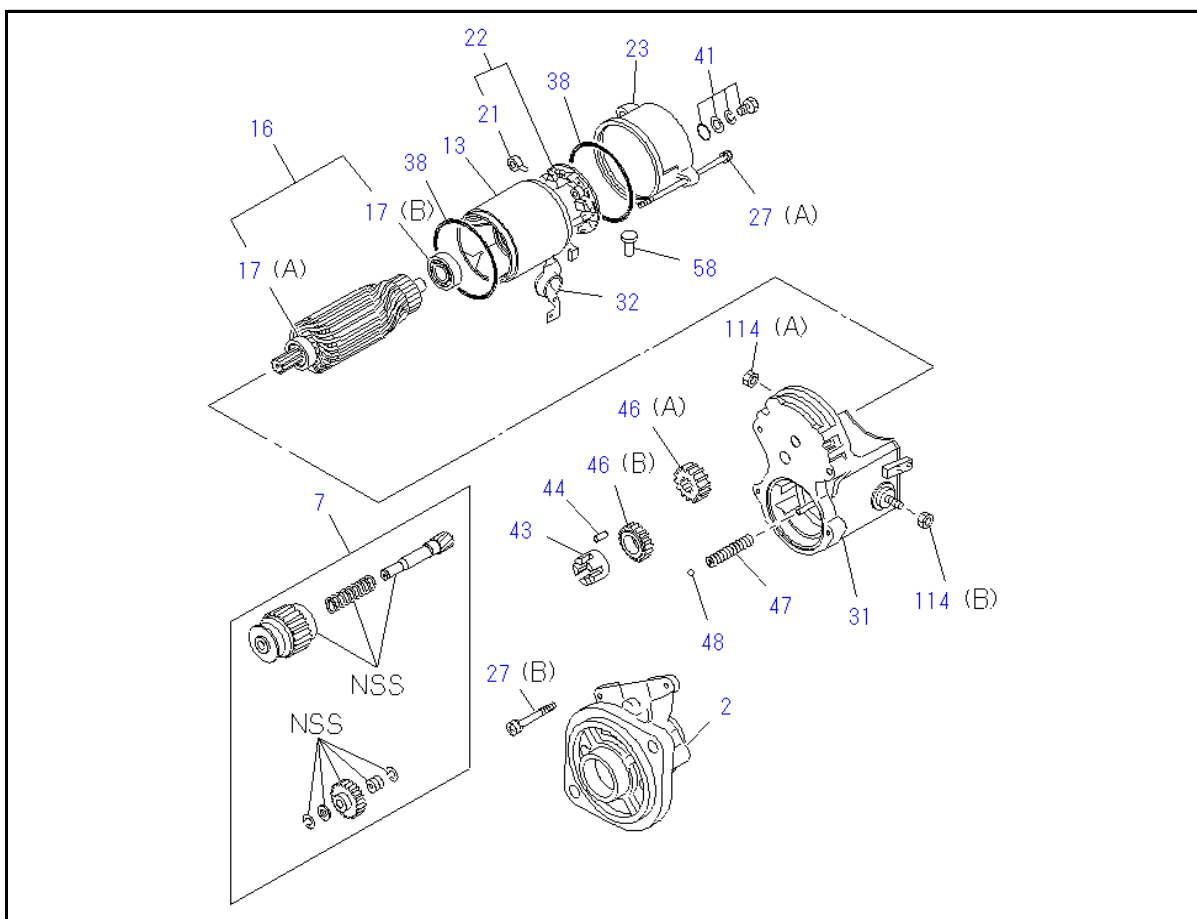
(No.2)



0-60 ENGINE ELECTRICAL CONTROL PARTS

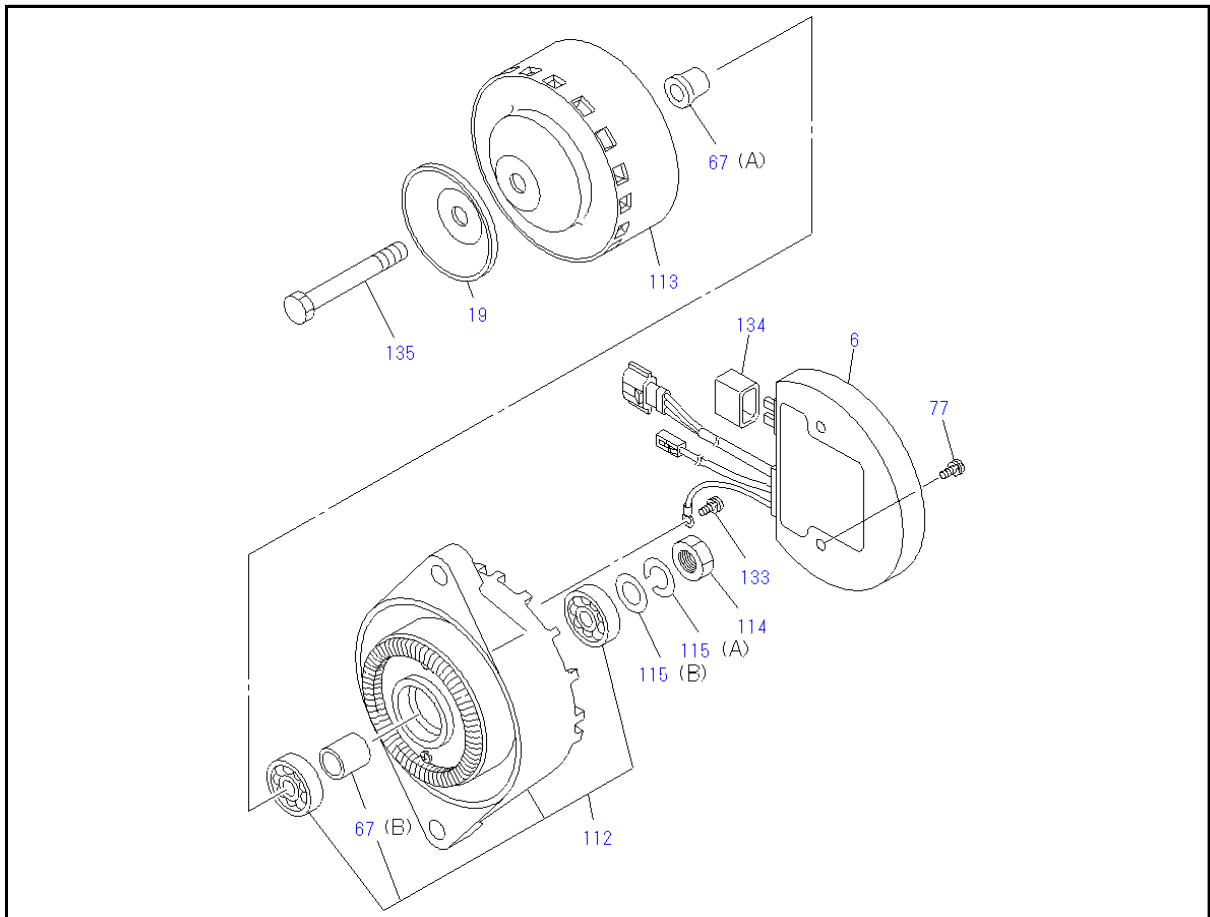
KEY No.	Part no.	qty	Part description	Engine serial no.
1	8-97112-865-2	1	STARTER ASM 12V-2.0KW DENSO	
2	8-97248-298-5 <8-97248-298-3>	1	GENERATOR ASM 12V-20A HITACHI	UP to 172250
2	8-98156-527-0	1	GENERATOR ASM 12V-20A HITACHI	172251 - UP
4	0-28151-230-0	2	BOLT; STARTER M12X30 FLANGE	
7 (A)	0-91111-508-0	1	NUT; STARTER M8	
16	0-28051-070-0	1	BOLT; GEN M10X70 FLANGE	
21 (C)	8-97378-857-0	1	BRACKET; GEN	
23	0-91180-210-0	1	NUT; GEN M10 FLANGE	
46	8-94248-161-0	1	RELAY; GLOW PLUG 12V	
89 (B)	8-94132-331-0	1	SWITCH; OVER HEAT WARNING	
177	8-97329-568-0	1	SOLENOID ASM; ENG STOP	
238	9-09572-014-0	1	GASKET; PICKUP ID=14.2 OD=23.0	
292	0-91510-808-0	1	WASHER; LK ID=8	
603	8-94126-822-0	1	SENSOR; TACHO	
657	8-97040-501-1	1	TIMER; GLOW PLUG 12V	
729	8-97063-301-0	1	SENSOR; QOS THERMO	
842	8-97111-962-1	1	TIMER ASM	

0-65 STARTER



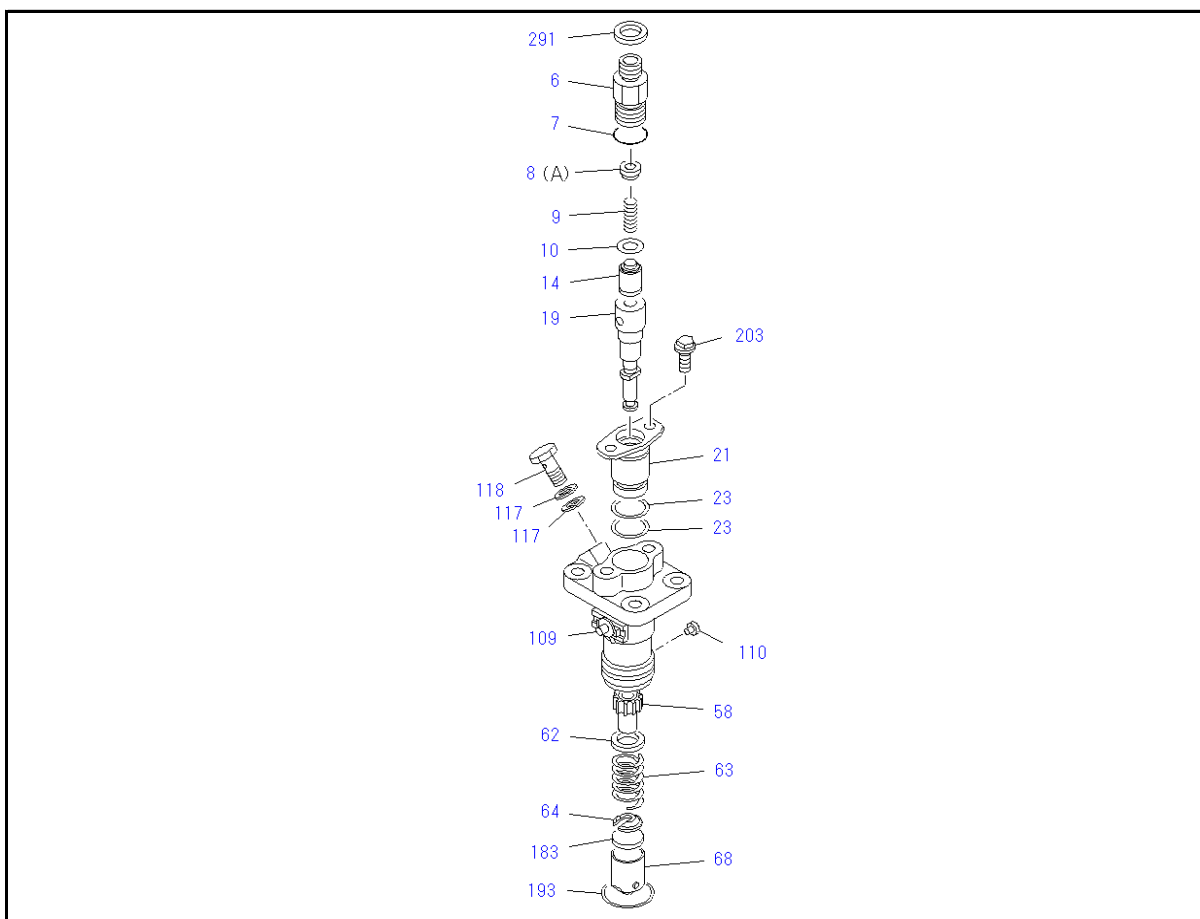
KEY No.	Part no.	qty	Part description	Engine serial no.
2	8-97112-871-0	1	CASE; PINION	
7	8-97112-870-0	1	CLUTCH ASM; PINION	
13	8-97135-497-0	1	YOKE; STARTER	
16	8-97112-869-0	1	ARMATURE; STARTER	
17 (A)	5-09800-079-0 <8-94377-240-0>	1	BEARING; ARMATURE	
17 (B)	8-97112-954-0	1	BEARING; ARMATURE	
21	8-97112-880-0	4	SPRING; BRUSH HOLDER STARTER	
22	8-97112-873-0	1	HOLDER; BRUSH STARTER	
23	8-97112-875-0	1	COVER; RR COVER STARTER	
27 (A)	8-97112-957-0	2	BOLT; THROUGH	
27 (B)	8-97112-881-0	2	BOLT; THROUGH	
31	8-97112-872-0	1	SWITCH; ENGAGE STARTER	
32	5-81119-029-0	1	COVER; RUBBER	
38	8-94170-214-0	2	GASKET; RR COVER	
41	8-97142-903-0	2	SCREW; RR COVER	
43	8-94377-246-0	1	RETAINER; PINION STARTER	
44	5-81129-099-0	5	ROLLER; PINION STARTER	
46 (A)	8-97112-879-0	1	GEAR; CLU STARTER	
46 (B)	8-97078-649-0	1	GEAR; CLU STARTER	
47	8-94377-245-0	1	SPRING; PINION STARTER	
48	5-81129-092-0	1	BALL; PINION	
58	8-94377-239-1 <8-94377-239-0>	1	PIPE; DRAIN RR COVER STARTER	
114 (A)	5-09400-042-0 <8-94109-763-0>	1	NUT; TERMINAL	
114 (B)	8-94377-238-0	1	NUT; TERMINAL	

0-66 GENERATOR



KEY No.	Part no.	qty	Part description	Engine serial no.
6	8-98158-660-0	1	REGULATOR ASM; VOLTAGE	
19	8-97229-789-0	1	PULLEY; GEN	
67 (A)	8-97229-783-0	1	COLLAR; SPACE	
67 (B)	8-97229-784-0	1	COLLAR; SPACE	
77	0-36220-620-0 <9-03910-620-0>	2	SCREW; REG	
112	8-97229-779-0	1	PLATE ASM; GEN	UP to 172250
112	8-97262-720-0	1	PLATE ASM; GEN	172251 - UP
113	8-97229-785-0	1	FLYEHEEL ASM; GEN	
114	5-81229-186-0	1	NUT; FLYEHEEL	
115 (A)	5-81229-187-0	1	WASHER; FLYWHEEL	
115 (B)	5-81229-188-0	1	WASHER; FLYWHEEL	
133	8-97369-335-0	1	SCREW; TERMINAL	
134	8-97229-788-0	1	COVER; TERMINAL	
135	8-97229-791-0	1	SHAFT; GENERATOR	

0-80 INJECTION PUMP



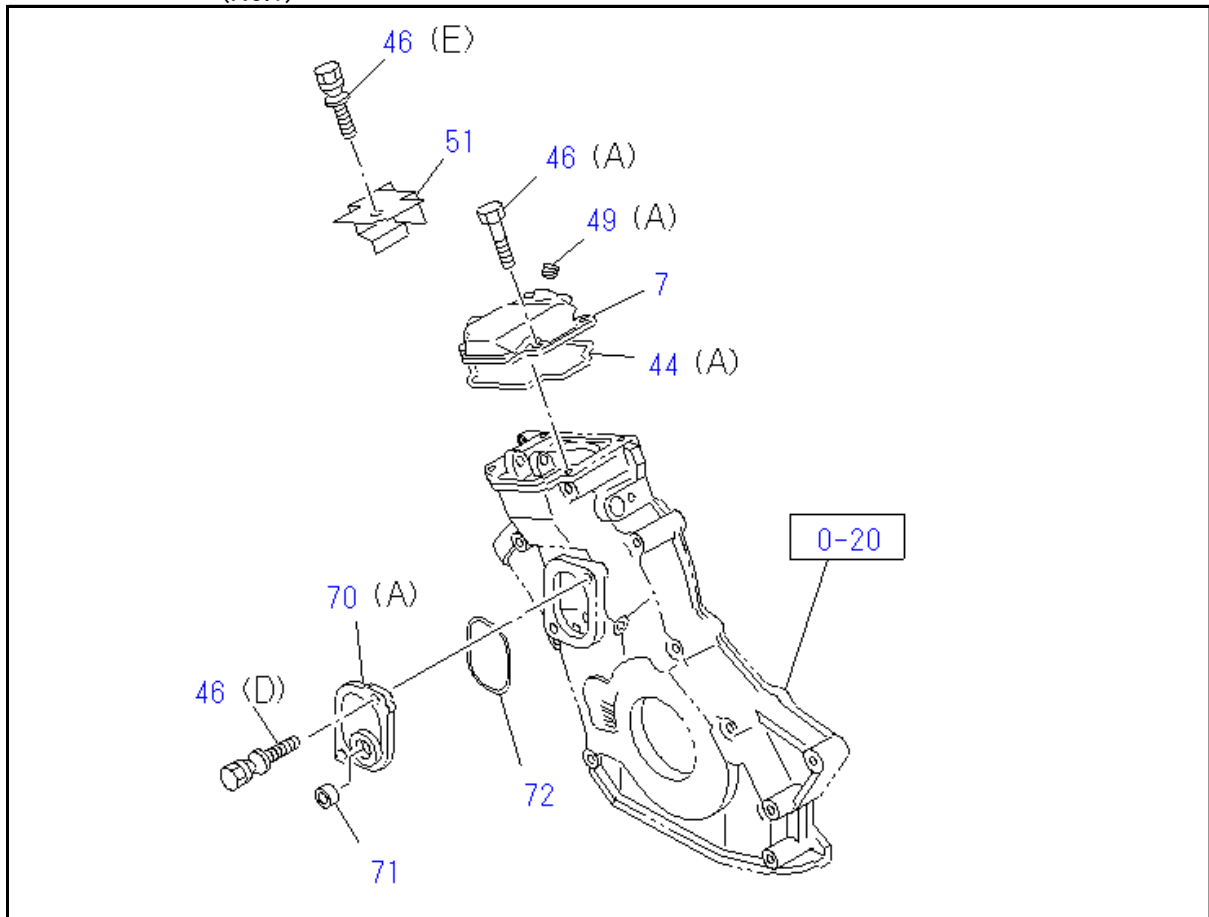
KEY No.	Part no.	qty	Part description	Engine serial no.
6	8-94132-746-1	1	HOLDER; DELIVERY VLV	
7	8-94128-915-0	1	GASKET; HOLDER	
8 (A)	8-97083-347-0	1	STOPPER; DELIVERY VLV	
9	8-94128-911-0	1	SPRING; DELIVERY VLV	
10	8-94128-912-0	1	GASKET; DELIVERY VLV	
14	8-97083-346-0	1	VALVE; DELIVERY	
19	8-97160-901-0	1	PLUNGER ASM; INJ PUMP	
21	8-97083-348-0	1	FLANGE; PLUNGER	
23	8-97253-154-0	2	GASKET; PLUNGER	
58	8-94128-923-0	1	SLEEVE; CONT	
62	8-94128-920-0	1	SEAT; PLUNGER SPRING	
63	8-94128-919-0	1	SPRING; PLUNGER	
64	8-94128-921-0	1	SEAT; PLUNGER SPRING LWR	
68	8-94128-916-0	1	TAPPET; CM/SHF	
109	8-97083-355-3	1	RACK; CONT	
110	8-97083-349-0	1	PIN; CONT RACK	
117	8-94144-588-0	2	GASKET; EYE BOLT	
118	8-94379-688-0	1	BOLT; EYE	
183	8-94128-931-0	1	PLATE; TAPPET T=2.60	
183	8-97225-955-0	1	PLATE; TAPPET T=2.62	
183	8-94128-932-0	1	PLATE; TAPPET T=2.65	
183	8-97225-956-0	1	PLATE; TAPPET T=2.67	
183	8-94128-933-0	1	PLATE; TAPPET T=2.70	
183	8-97225-957-0	1	PLATE; TAPPET T=2.72	

KEY No.	Part no.	qty	Part description	Engine serial no.
183	8-94128-934-0	1	PLATE; TAPPET T=2.75	
183	8-97225-958-0	1	PLATE; TAPPET T=2.77	
183	8-94128-935-0	1	PLATE; TAPPET T=2.80	
183	8-97225-959-0	1	PLATE; TAPPET T=2.82	
183	8-94128-936-0	1	PLATE; TAPPET T=2.85	
183	8-97225-960-0	1	PLATE; TAPPET T=2.87	
183	8-94128-937-0	1	PLATE; TAPPET T=2.90	
183	8-97225-961-0	1	PLATE; TAPPET T=2.92	
183	8-94128-938-0	1	PLATE; TAPPET T=2.95	
183	8-97225-962-0	1	PLATE; TAPPET T=2.97	
183	8-94128-939-0	1	PLATE; TAPPET T=3.00	
183	8-97225-964-0	1	PLATE; TAPPET T=3.02	
183	8-94128-940-0	1	PLATE; TAPPET T=3.05	
183	8-97225-965-0	1	PLATE; TAPPET T=3.07	
183	8-94128-941-0	1	PLATE; TAPPET T=3.10	
183	8-97225-966-0	1	PLATE; TAPPET T=3.12	
183	8-94128-942-0	1	PLATE; TAPPET T=3.15	
183	8-97225-967-0	1	PLATE; TAPPET T=3.17	
183	8-94128-943-0	1	PLATE; TAPPET T=3.20	
183	8-97225-968-0	1	PLATE; TAPPET T=3.22	
183	8-94128-944-0	1	PLATE; TAPPET T=3.25	
183	8-97225-969-0	1	PLATE; TAPPET T=3.27	
183	8-94128-945-0	1	PLATE; TAPPET T=3.30	
183	8-97225-970-0	1	PLATE; TAPPET T=3.32	
183	8-94128-946-0	1	PLATE; TAPPET T=3.35	
183	8-97225-971-0	1	PLATE; TAPPET T=3.37	
183	8-94128-947-0	1	PLATE; TAPPET T=3.40	
183	8-97225-972-0	1	PLATE; TAPPET T=3.42	
183	8-94128-948-0	1	PLATE; TAPPET T=3.45	
183	8-97225-973-0	1	PLATE; TAPPET T=3.47	

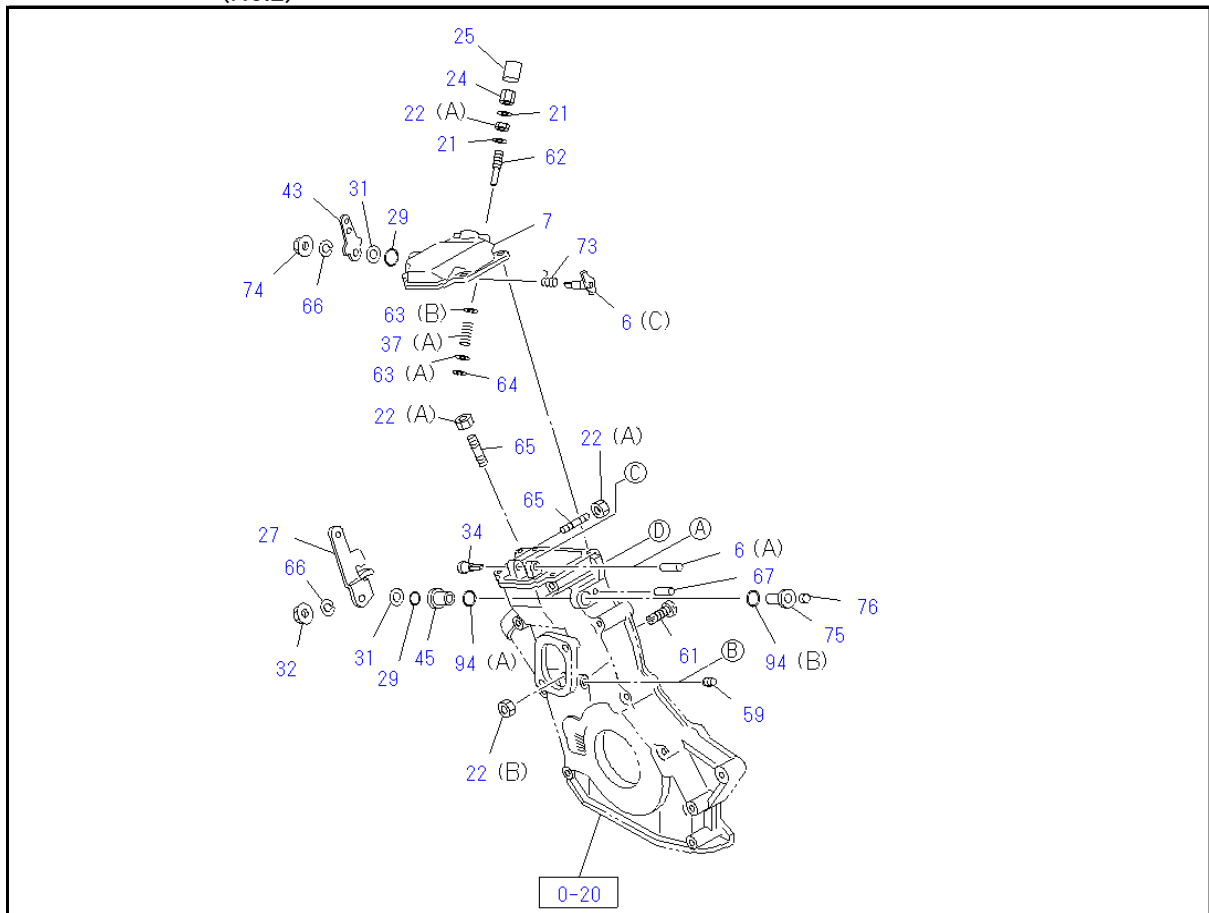
KEY No.	Part no.	qty	Part description	Engine serial no.
183	8-94128-949-0	1	PLATE; TAPPET T=3.50	
183	8-97225-974-0	1	PLATE; TAPPET T=3.52	
183	8-94128-950-0	1	PLATE; TAPPET T=3.55	
183	8-97225-976-0	1	PLATE; TAPPET T=3.57	
183	8-94128-951-0	1	PLATE; TAPPET T=3.60	
183	8-97225-977-0	1	PLATE; TAPPET T=3.62	
183	8-94128-952-0	1	PLATE; TAPPET T=3.65	
183	8-97225-978-0	1	PLATE; TAPPET T=3.67	
183	8-94128-953-0	1	PLATE; TAPPET T=3.70	
183	8-97225-979-0	1	PLATE; TAPPET T=3.72	
183	8-94128-954-0	1	PLATE; TAPPET T=3.75	
183	8-97225-980-0	1	PLATE; TAPPET T=3.77	
183	8-94128-955-0	1	PLATE; TAPPET T=3.80	
183	8-97225-981-0	1	PLATE; TAPPET T=3.82	
183	8-94128-956-0	1	PLATE; TAPPET T=3.85	
183	8-97225-982-0	1	PLATE; TAPPET T=3.87	
183	8-94128-957-0	1	PLATE; TAPPET T=3.90	
183	8-97225-983-0	1	PLATE; TAPPET T=3.92	
183	8-94128-958-0	1	PLATE; TAPPET T=3.95	
183	8-97225-984-0	1	PLATE; TAPPET T=3.97	
183	8-94128-959-0	1	PLATE; TAPPET T=4.00	
183	8-97225-985-0	1	PLATE; TAPPET T=4.02	
183	8-94128-960-0	1	PLATE; TAPPET T=4.05	
183	8-97225-986-0	1	PLATE; TAPPET T=4.07	
183	8-94128-961-0	1	PLATE; TAPPET T=4.10	
193	8-98098-248-0	1	RING; SNAP	
203	8-94379-691-0	2	BOLT; FUEL INL	
291	8-97160-904-0	1	RING; DELIVERY VLV	

0-89 TIMING CHAIN CASE

(No.1)

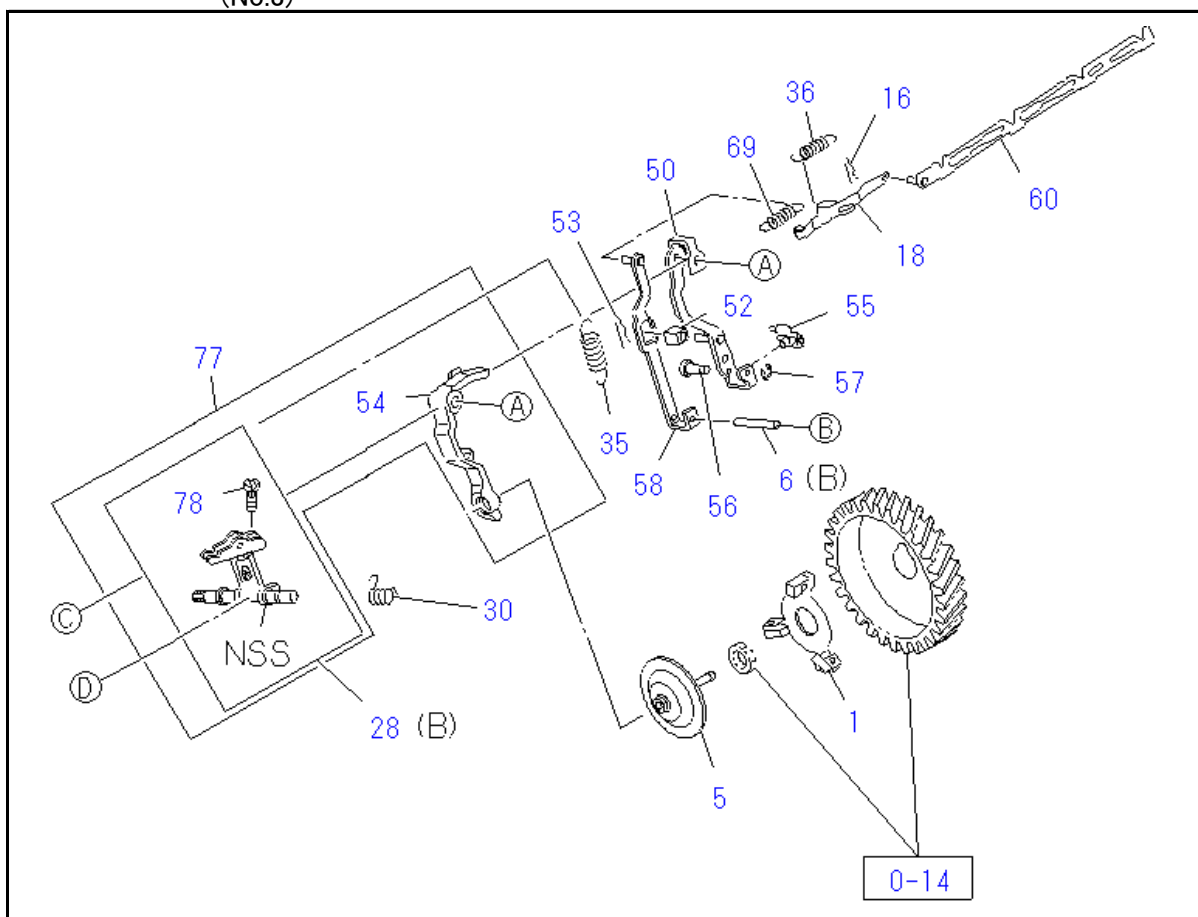


(No.2)



0-89 TIMING CHAIN CASE

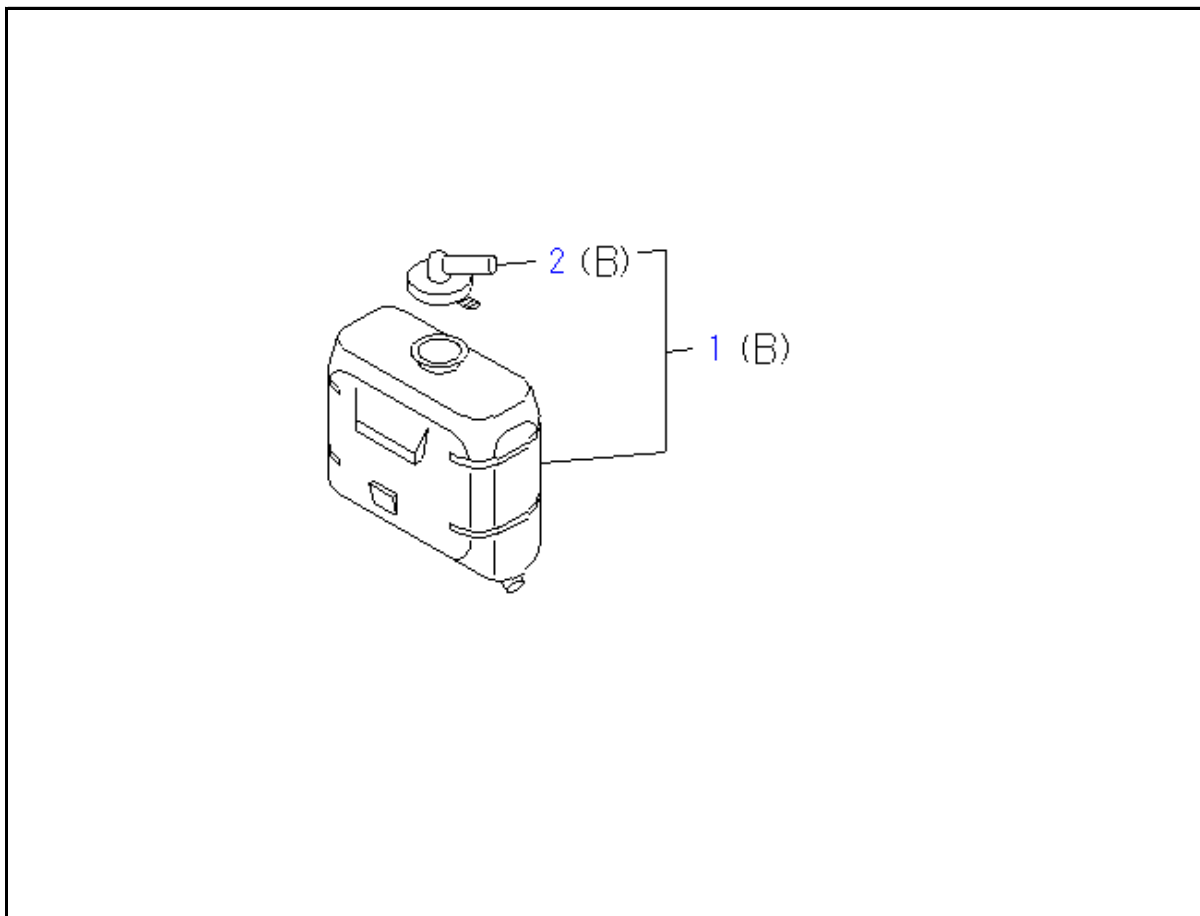
(No.3)



KEY No.	Part no.	qty	Part description	Engine serial no.
1	8-97309-671-0	1	FLYWEIGHT	
5	8-97147-489-3	1	SLEEVE; FLYWEIGHT	
6 (C)	8-97016-446-0	1	SHAFT; LEVER	
6 (B)	9-08150-545-0	1	SHAFT; LEVER	
6 (A)	9-08150-850-0	1	SHAFT; LEVER	
7	8-98113-804-0	1	COVER; GOV SHAFT	
16	1-09747-002-0	1	PIN; LEVER TO LINK PLATE L=17.9	
18	8-97148-550-0	1	PLATE; LINK	
21	5-09503-132-1	2	GASKET; SCREW	
22 (A)	0-91111-506-0	3	NUT; SCREW M6	
22 (B)	0-91110-506-0	1	NUT; SCREW M6	
24	5-09400-048-0	1	NUT; CAP	
25	5-15669-002-1	1	CAP; IDLE SET	
27	8-97049-328-1	1	LEVER; CONT	
28 (B)	8-97160-572-0 <8-97160-572-1>	1	LEVER; MAIN SPR	
29	1-09623-055-0	2	GASKET; SHAFT ID=9.8	
30	8-97016-940-0	1	SPRING; RETURN	
31	5-09503-135-0	2	WASHER; THRUST	
32	0-91110-508-0	1	NUT; LEVER TO SHAFT M8	
34	5-15729-239-2	1	EYE; START SPR	
35	8-97148-557-0	1	SPRING; MAIN	
36	8-97149-603-1	1	SPRING; START	
37 (A)	8-97171-243-1	1	SPRING; IDLE	
43	8-97303-454-0	1	LEVER; FUEL CUT	

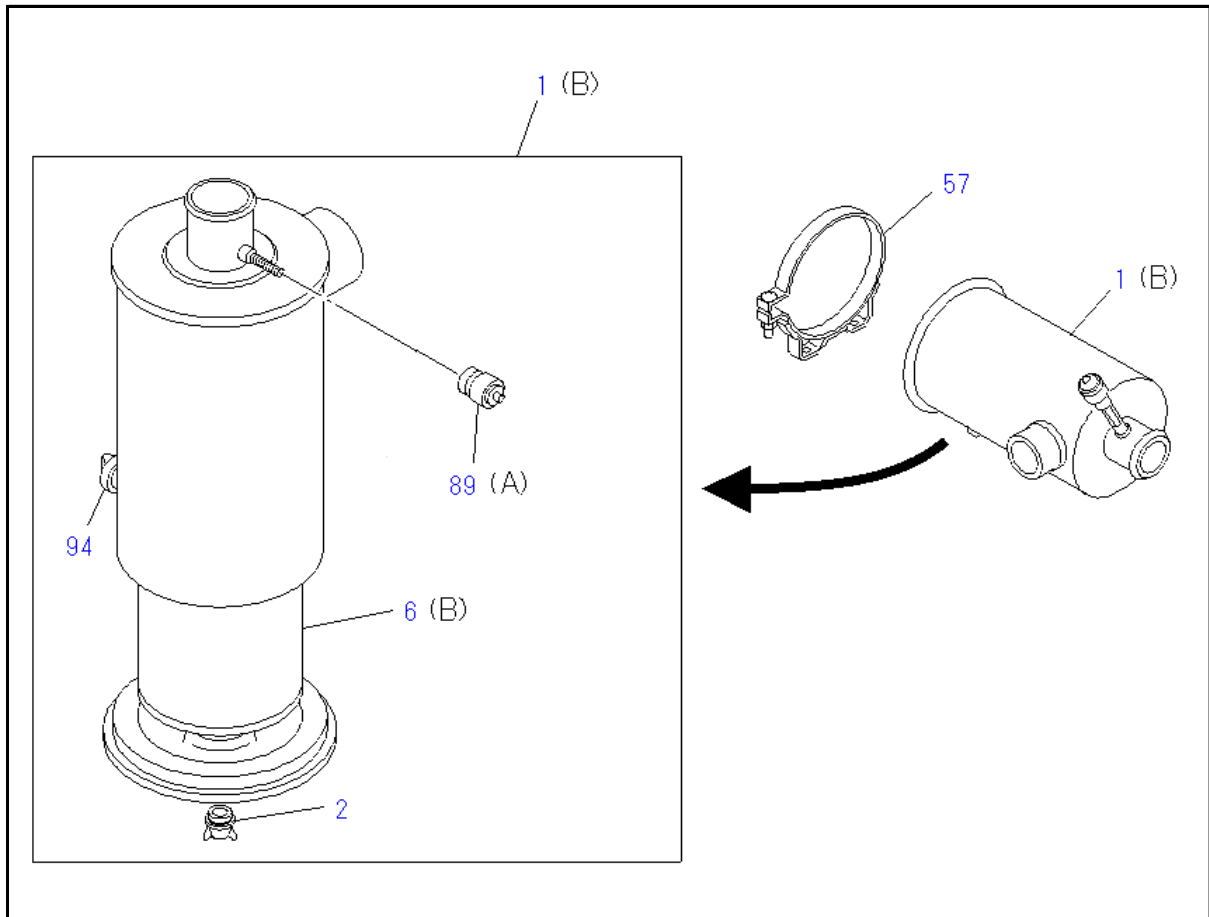
KEY No.	Part no.	qty	Part description	Engine serial no.
44 (A)	8-97064-688-1	1	GASKET; COVER	
45	8-97262-883-0	1	BUSHING; GEAR CASE TO CONT	
46 (D)	8-97132-291-2	2	BOLT; COVER M6X16	
46 (E)	8-97132-292-2	1	BOLT; COVER M6X22	
46 (A)	0-28050-620-0	3	BOLT; COVER M6X20 FLANGE	
49 (A)	1-09605-019-0	1	PLUG; COVER PT1/4	
50	8-97303-577-2	1	LEVER; GUIDE	
51	8-97358-000-1	1	COVER; ADJ	
52	8-97303-583-0	1	PIECE; GUIDE	
53	1-09747-002-0	1	PIN; GUIDE LEVER	
54	8-97160-574-3	1	LEVER; TENSION	
55	8-97034-638-3	1	SHIFTER; GOV	
56	8-97303-667-0	1	SHAFT; SHIFTER	
57	0-91805-504-0	1	RING; SNAP,SHAFT ID=4	
58	8-97303-580-2	1	LEVER; FLOATING	
59	8-97369-552-1	1	PLUG; SHAFT,FLOATING LEVER PT1/8	
60	8-97148-865-0	1	LINK; CONT	
61	8-97039-584-2	1	SCREW; SET	
62	8-97016-441-0	1	SCREW; SET	
63 (A)	0-91610-504-0	1	WASHER; IDLE SPR ID=4	
63 (B)	0-91610-704-0	1	WASHER; IDLE SPR ID=4	
64	0-91805-503-0	1	RING; SNAP,SET SCREW	
65	8-94317-638-1	1	SCREW; CONT SET SPEED L=38	
66	0-91510-808-0	2	WASHER; LK ID=8	
67	9-08160-436-0	1	PIN; SPR	
69	8-97083-714-1	1	SPRING; SET	
70 (A)	8-97307-467-1	1	COVER; ANGLEICH	
71	5-11129-006-0	1	CUP; SEALING OD=16	
72	8-97226-842-1	1	GASKET; COVER	
73	8-97039-546-1	1	SPRING; FUEL CUT	
74	0-91110-508-0	1	NUT; SHAFT M8	
75	8-97262-817-0	1	BUSHING; LEVER	
76	8-94454-615-0	1	CUP; SEALING	
77	8-97093-549-4	1	LEVER KIT; GOV	
78	8-97105-909-0	1	ADJUSTER; GOV	
94 (A)	9-09565-114-0	1	GASKET; BUSH	
94 (B)	9-09565-116-0	1	GASKET; BUSH	

1-11 RADIATOR HOSE AND SUB TANK



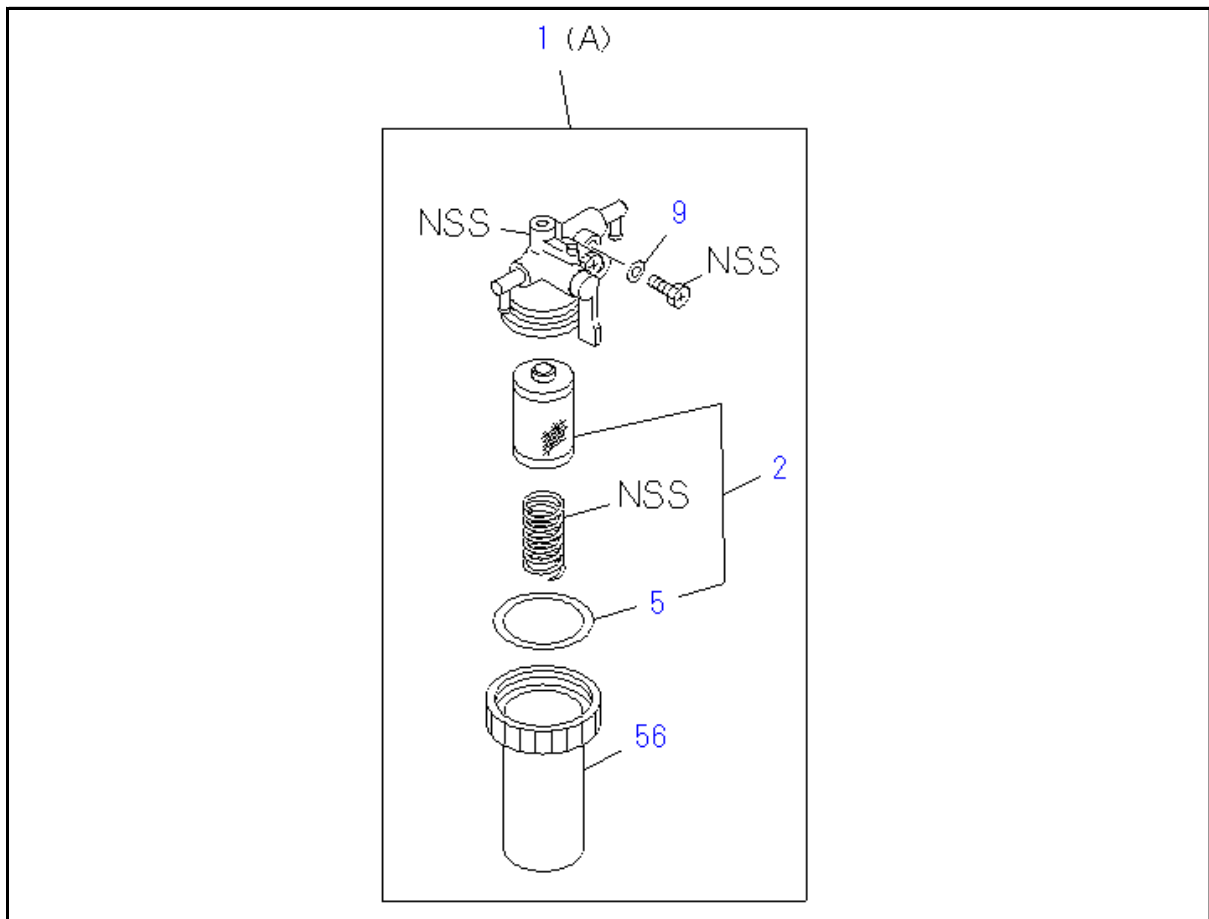
KEY No.	Part no.	qty	Part description	Engine serial no.
1 (B)	8-94440-969-0	1	TANK; SURGE	
2 (B)	8-94449-363-0	1	CAP; SURGE TANK	

1-30 AIR CLEANER



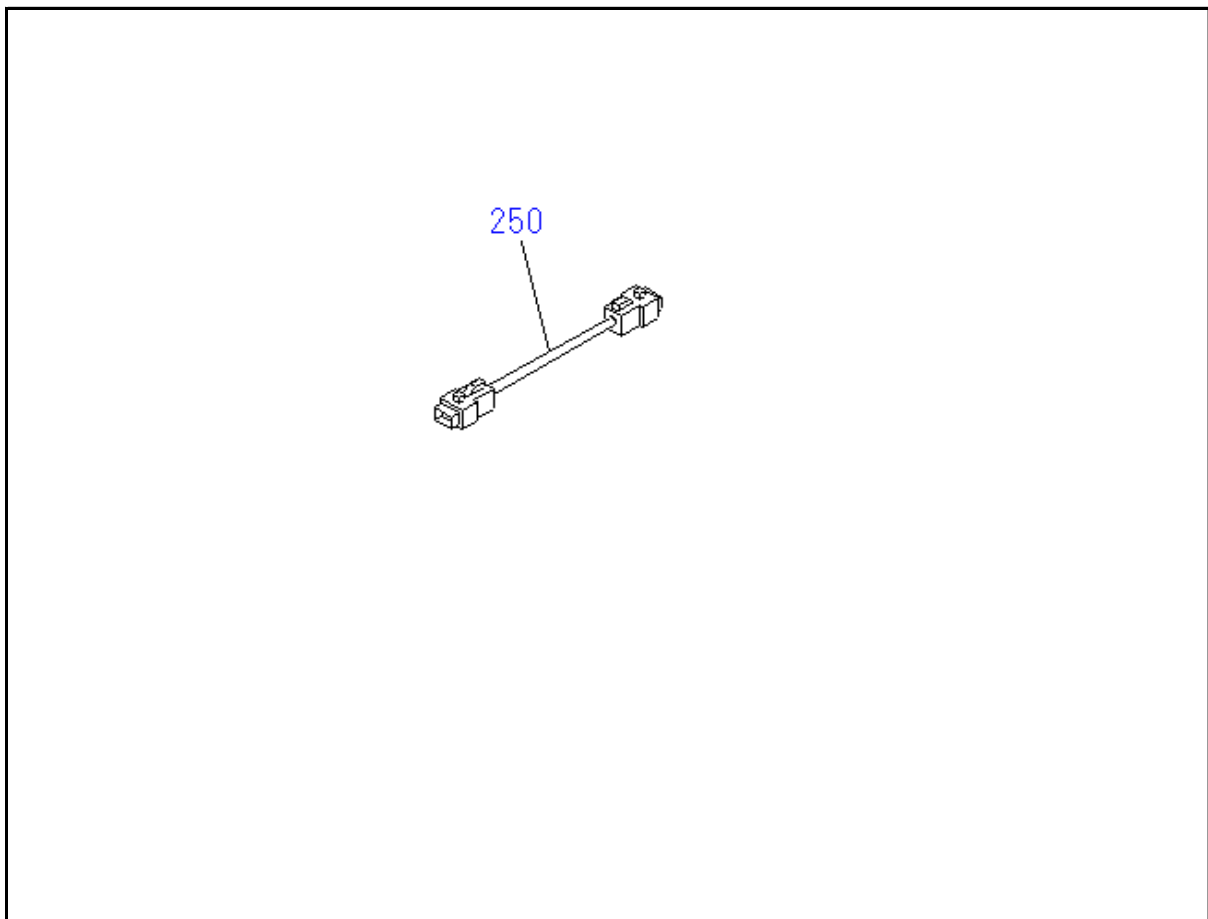
KEY No.	Part no.	qty	Part description	Engine serial no.
1 (B)	8-97311-835-0	1	CLEANER ASM; AIR	
2	1-14217-036-0	1	NUT; WING	
6 (B)	8-97168-306-0	1	FILTER; ACL	
57	8-94365-128-0	2	BAND; ACL	
89 (A)	1-14219-212-0	1	INDICATOR; ACL	
94	1-14219-102-0	1	VALVE; VACUATOR	

1-45 WATER SEDIMENTER; FUEL



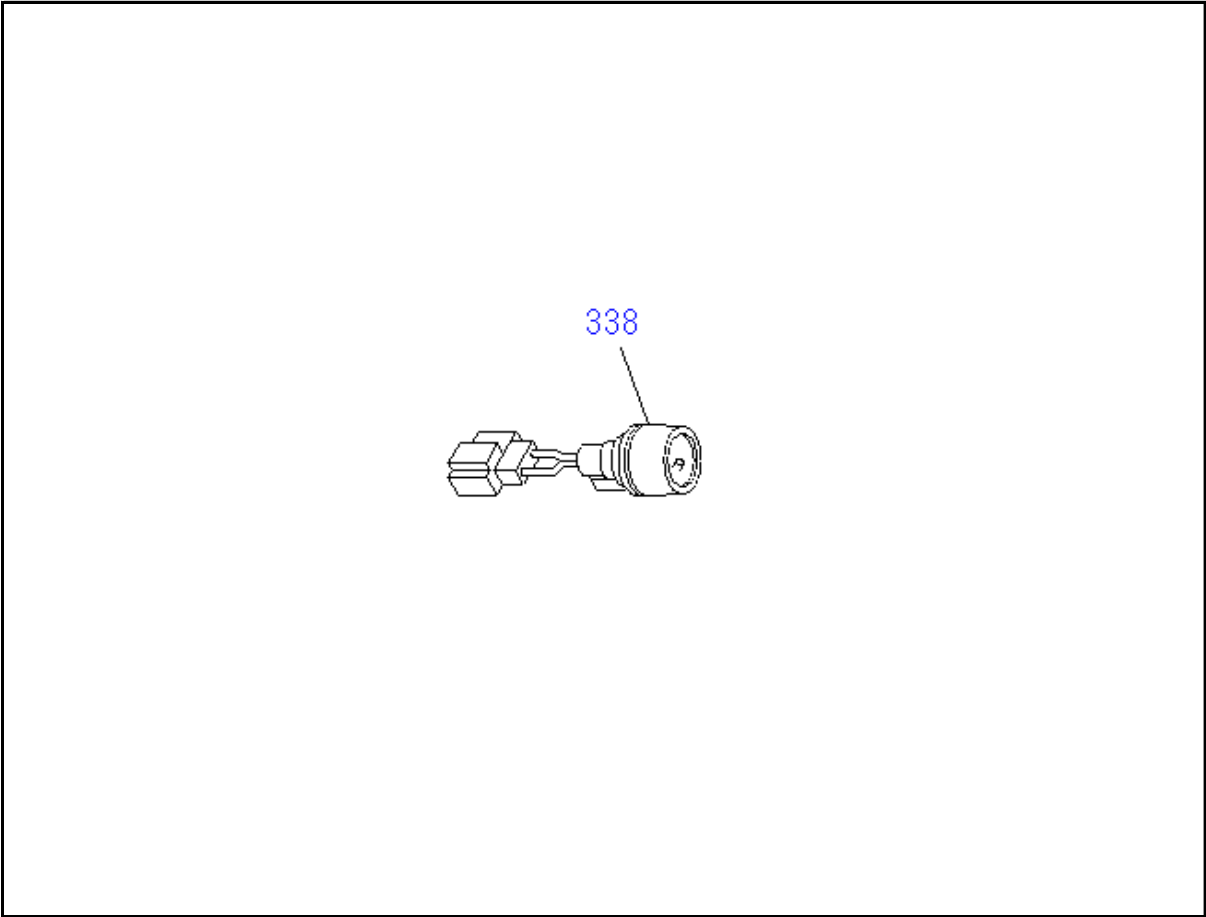
KEY No.	Part no.	qty	Part description	Engine serial no.
1 (A)	8-97086-245-3	1	SEDIMENTER; FUEL	
2	8-97213-381-0	1	ELEMENT; FUEL FILTER	
5	8-94155-183-0	1	GASKET; UPR COVER	
9	8-97308-988-0	2	GASKET; DRAIN PLUG & CONNECTOR	
56	8-94360-255-0	1	CASE; FUEL SEDIMENTER	

8-10 WIRING HARNESS AND FUSE



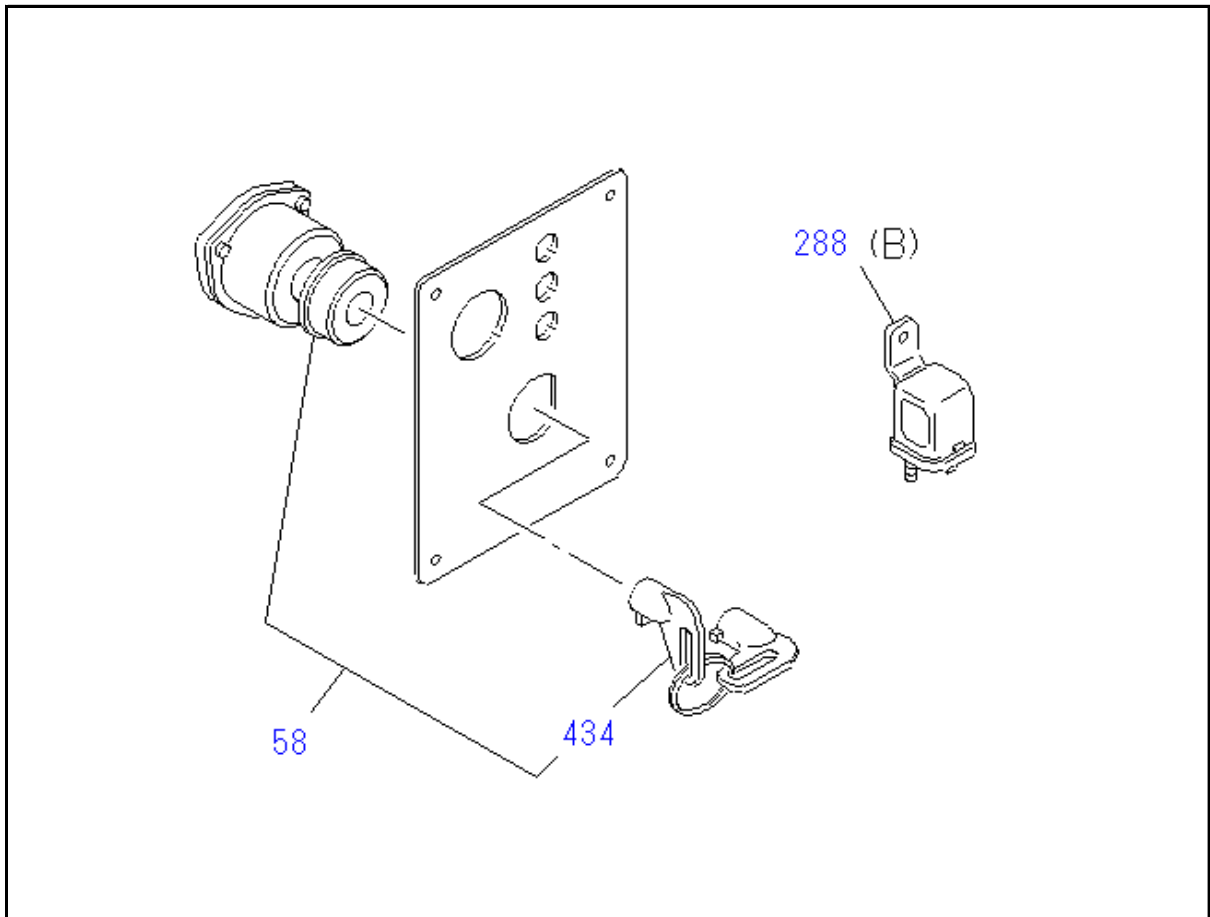
KEY No.	Part no.	qty	Part description	Engine serial no.
250	8-94331-131-0	1	WIRE; FUSIBLE LINK L=160	

8-21 METER ASM



KEY No.	Part no.	qty	Part description	Engine serial no.
338	8-94459-918-0 <5-82250-008-2>	1	INDICATOR; GLOW	

8-25 SWITCH AND RELAY; INSTRUMENT PANEL



KEY No.	Part no.	qty	Part description	Engine serial no.
58	8-94402-500-0	1	SWITCH; IGNITION	
288 (B)	5-82550-029-0	1	RELAY; SAFETY	
434	8-94402-498-0	1	KEY; STARTER SW	