

ISUZU

DIESEL ENGINE

6HK1 XAGD01

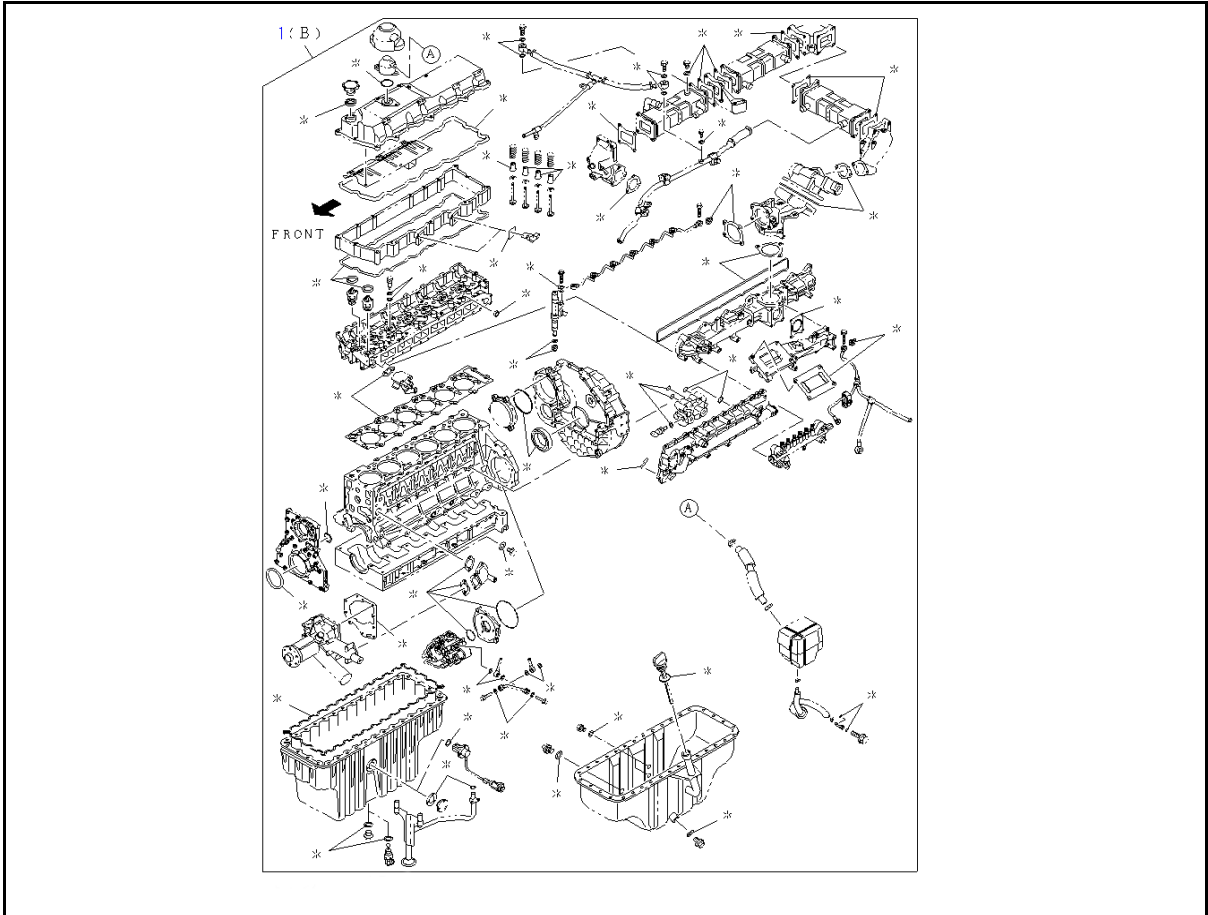
PARTS CATALOG

FIGURE NUMBER INDEX

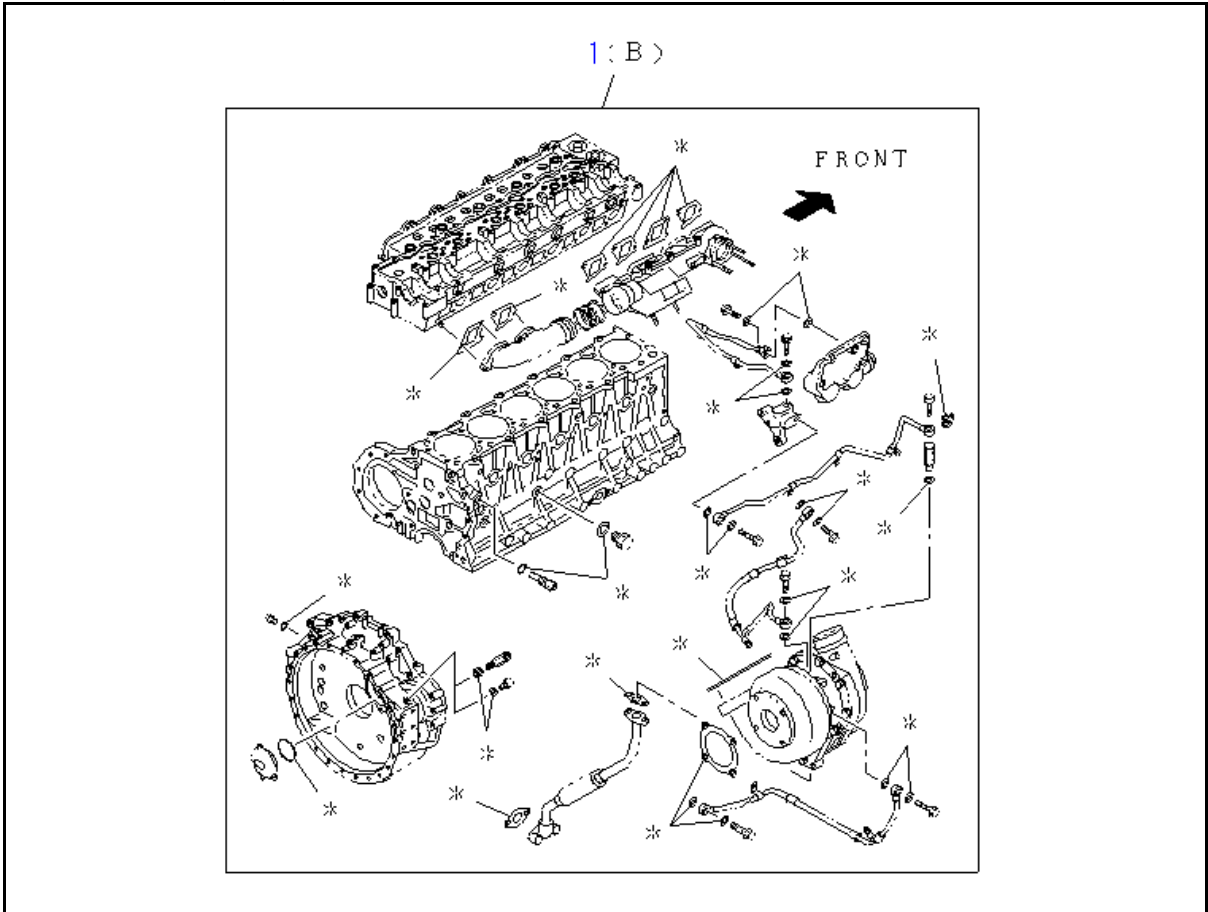
FIG NO.	TITLE (SUBTITLE)	PAGE
0-05	ENGINE GASKET KIT	1
0-10	CYLINDER HEAD COVER	3
0-11	CYLINDER HEAD	4
0-12	CYLINDER BLOCK	7
0-13	OIL PAN AND LEVEL GAUGE	9
0-14	CAMSHAFT AND VALVE	10
0-15	CRANKSHAFT,PISTON AND FLYWHEEL	12
0-20	TIMING GEAR CASE AND FLYWHEEL HOUSING	14
0-22	ENGINE MOUNTING	17
0-25	INLET MANIFOLD	18
0-27	EXHAUST MANIFOLD	20
0-28	VENTILATION SYSTEM	22
0-30	WATER PUMP AND CORROSION RESISTOR	24
0-31	THERMOSTAT AND HOUSING	26
0-32	WATER PIPING; ENGINE	28
0-33	FAN AND FAN BELT	30
0-36	TURBOCHARGER SYSTEM	31
0-40	FUEL INJECTION SYSTEM	32
0-41	FUEL FILTER AND BRACKET	36
0-42	FUEL PUMP AND PIPE	37
0-50	OIL COOLER AND OIL FILTER	38
0-51	OIL PUMP AND OIL STRAINER	40
0-52	OIL AND VACUUM PIPING; ENGINE	41
0-57	EMISSION PIPING	43
0-60	ENGINE ELECTRICAL CONTROL PARTS	45
0-61	BATTERY AND ENGINE ELECTRICAL PARTS	47
0-65	STARTER	48
0-66	GENERATOR	49
1-10	RADIATOR	50
1-40	FUEL TANK	51
1-46	DEF TANK AND PIPING	52
1-50	EXHAUST PIPE AND SILENCER	54
1-59	OTHER PARTS	60
8-10	WIRING HARNESS AND FUSE	58
8-15	FIXING PARTS; WIRING HARNESS	59

0-05 ENGINE GASKET KIT

(No.1)

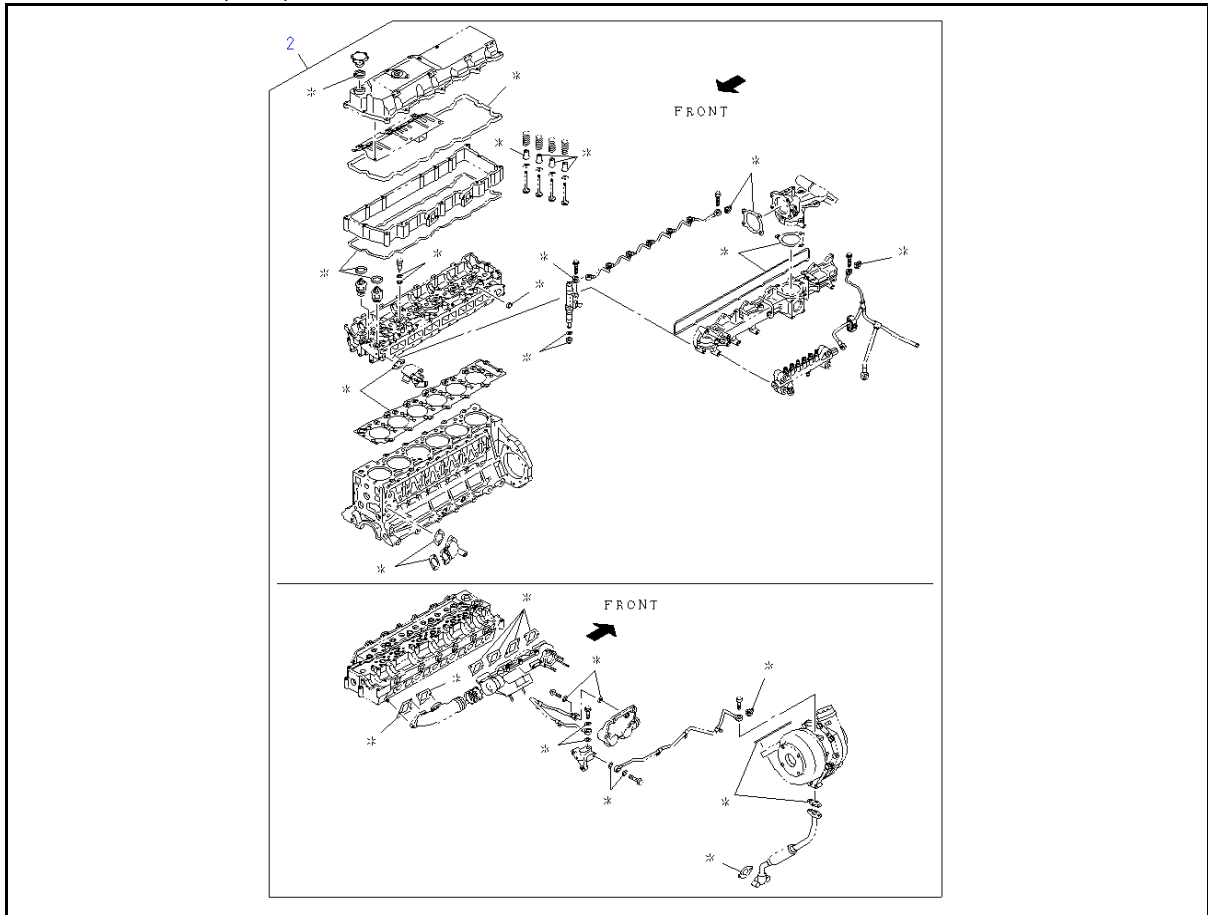


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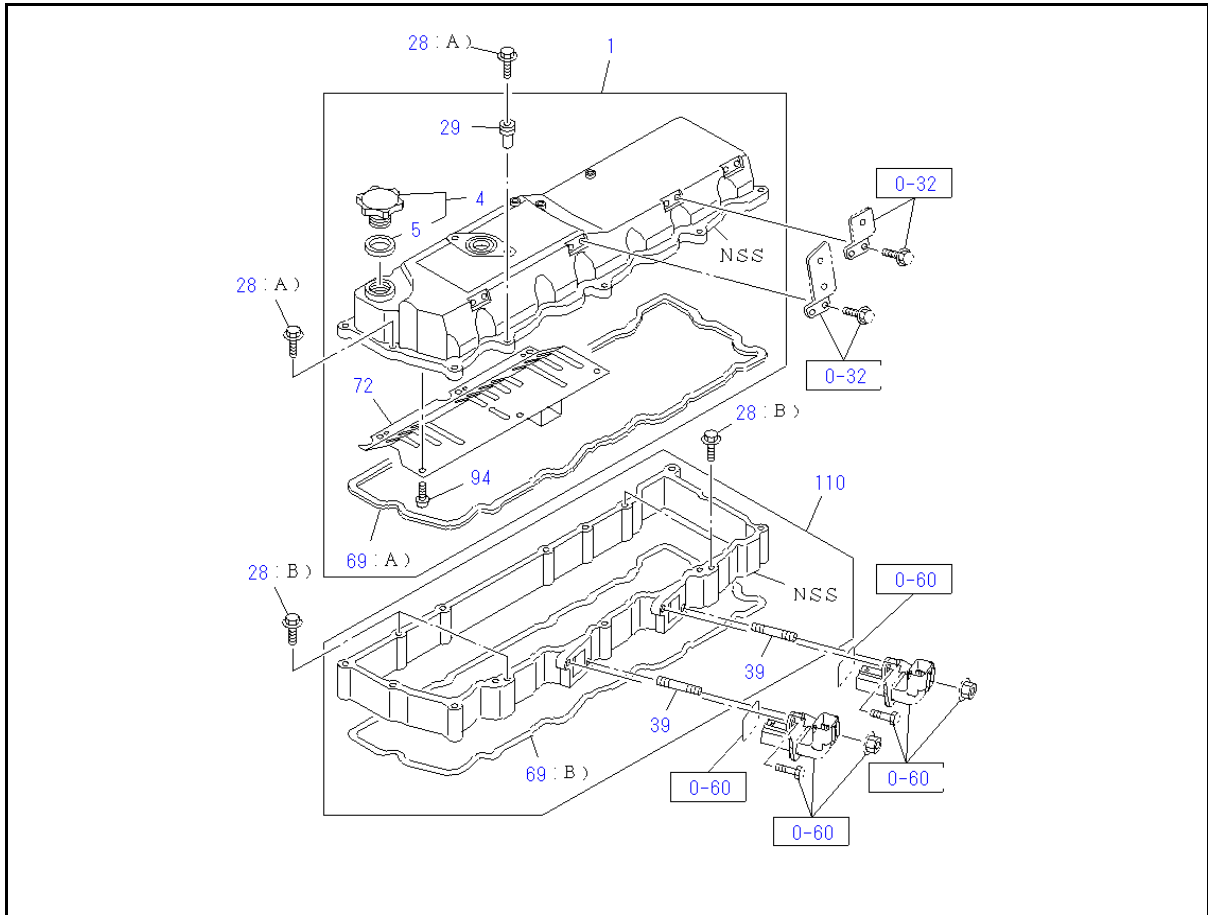
0-05 ENGINE GASKET KIT

(No.3)



KEY No.	Part no.	qty	Part description	Engine serial no.
1 (B)	1-87815-415-3	1	GASKET SET; ENG OVERHAUL	
2	1-87815-416-1	1	GASKET SET; ENG HD OVERHAUL	

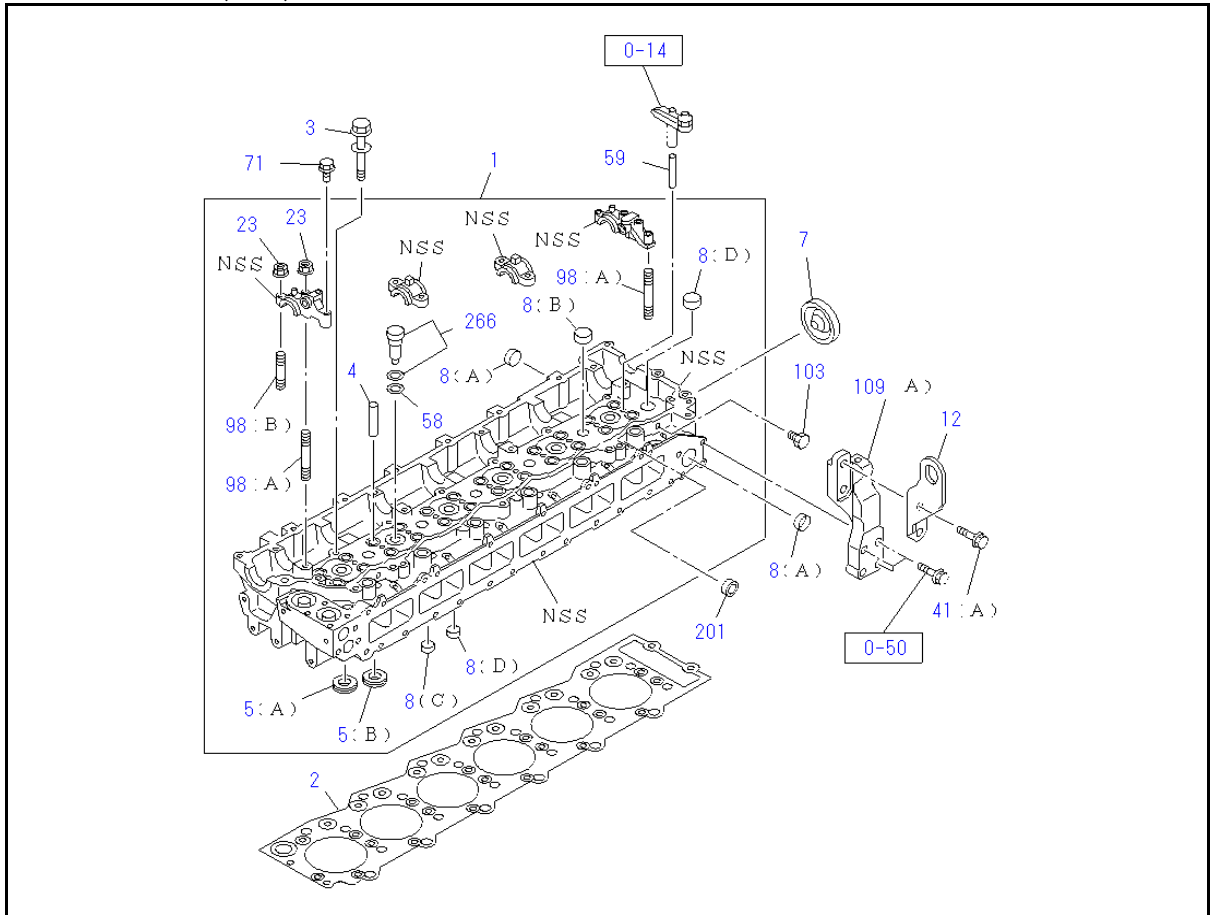
0-10 CYLINDER HEAD COVER



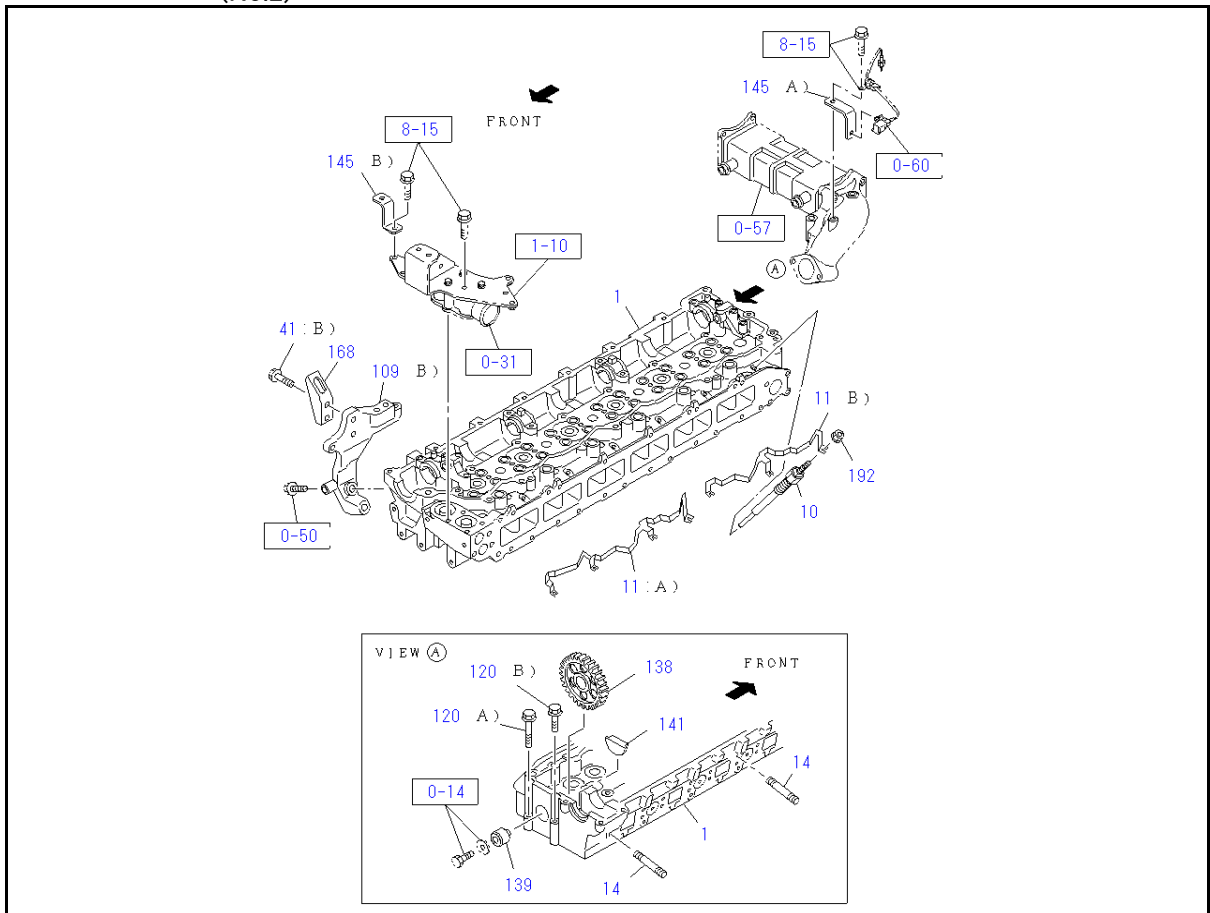
KEY No.	Part no.	qty	Part description	Engine serial no.
1	8-98039-998-1	1	COVER; CYL HD	
4	8-94399-723-0	1	CAP; OIL FILLER	
5	8-94399-689-0	1	GASKET; OIL FILLER ID=49 OD=58	
28 (A)	0-28050-870-0	11	BOLT; HD COVER M8X70 FLANGE	
28 (B)	0-28050-845-0	4	BOLT; HD COVER M8X45 FLANGE	
29	8-97601-849-1	11	RUBBER; MTG,HD COVER	
39	8-94396-512-0	2	STUD; COVER,HD M8X28 L=38	
69 (A)	8-94391-379-0	1	GASKET; HD TO COVER	
69 (B)	8-94391-380-0	1	GASKET; HD TO COVER	
72	8-94392-655-0	1	PLATE; INNER HD COVER	
94	0-35050-408-0	6	SCREW; BAFFLE PLATE,CYL HD COVER	
110	8-94390-862-3	1	COVER; CYL HEAD LWR	

0-11 CYLINDER HEAD

(No.1)



(No.2)

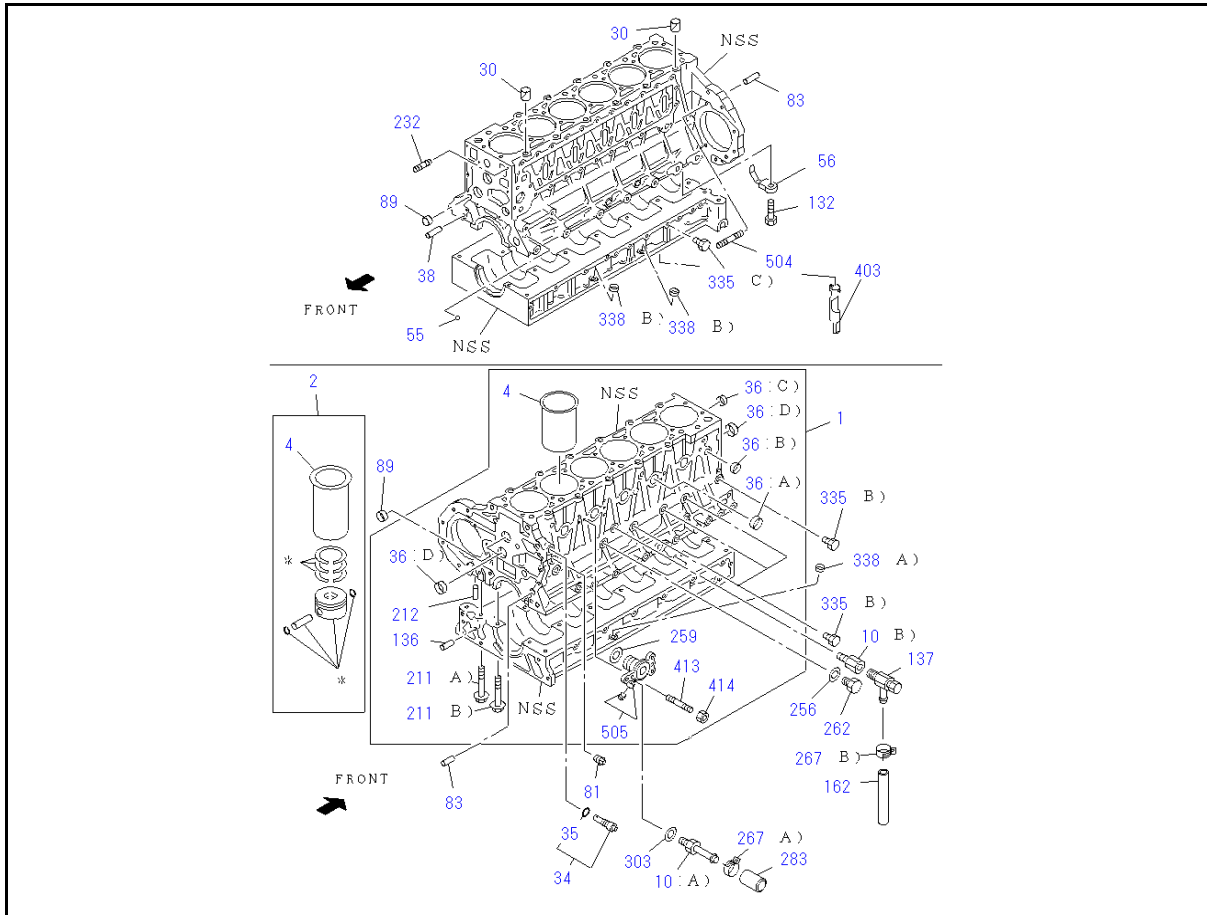


0-11 CYLINDER HEAD

KEY No.	Part no.	qty	Part description	Engine serial no.
1	8-98243-823-0	1	HEAD ASM; CYL	
2	8-97601-819-5	1	GASKET; CYL HD	
3	8-98260-005-0	26	BOLT; CYL HD TO BLOCK M14X115 W/FLANGE	
4	8-97376-719-2	24	GUIDE; VLV L=57	
5 (A)	8-98028-874-0	12	SEAT; VLV INSERT INLET	
5 (B)	8-98028-875-0	12	SEAT; VLV INSERT EXHAUST	
7	8-97096-826-0	1	CUP; SEALING,CYL HEAD OD=51	
8 (A)	1-09600-012-2	7	CUP; SEALING,WATER JACKET OD=32	
8 (B)	1-09600-016-0	6	CUP; SEALING,WATER JACKET OD=25	
8 (C)	5-11129-006-0	7	CUP; SEALING,WATER JACKET OD=16	
8 (D)	9-11129-128-0	11	CUP; SEALING,WATER JACKET OD=20	
10	8-94390-777-6	6	PLUG; GLOW NGK	
11 (A)	8-98040-648-0	1	CONNECTOR; GLOW PLUG	
11 (B)	8-98040-649-0	1	CONNECTOR; GLOW PLUG	
12	9-11777-612-1	1	HANGER; ENG,RR	
14	8-94397-286-0	12	STUD; EXH MANIF M10X60 L=75	
23	0-91180-208-0	8	NUT; CAM BRKT M8 FLANGE	
41 (A)	0-28151-020-0	2	BOLT; ENG HANGER M10X20 FLANGE	
41 (B)	0-28151-230-0	2	BOLT; ENG HANGER M12X30 FLANGE	
58	8-97604-916-0	6	GASKET; SLEEVE,NOZZLE HOLDER ID=26.4	
59	8-97381-603-1	12	GUIDE; BRIDGE	
71	0-28050-835-0	2	BOLT; CAM BRKT M8X35 FLANGE	
98 (A)	8-94322-512-2	2	STUD; CAM BRKT M8X54 L=79	
98 (B)	8-94322-513-2	6	STUD; CAM BRKT M8X41 L=66	
103	8-98003-416-0	1	PLUG; HD M8X10	
109 (A)	8-98112-558-2	1	BRACKET; ENG HANGER	
109 (B)	8-98116-140-2	1	BRACKET; ENG HANGER	
120 (A)	8-94399-554-0	1	BOLT; CYL HD TO HSG M10X73	
120 (B)	8-94399-555-0	1	BOLT; CYL HD TO HSG M10X43	
138	8-97112-607-1	1	GEAR; IDLE Z=41	
139	8-97186-398-1	1	SHAFT; IDLE GEAR	
141	8-98163-813-0	2	PLUG; RUBBER,CYL HD	
145 (A)	8-98305-501-0	1	BRACKET	
145 (B)	1-47476-658-0	1	BRACKET	
168	1-11777-123-1 <1-11777-087-0>	1	HANGER; ENG,FRT	

KEY No.	Part no.	qty	Part description	Engine serial no.
192	8-97368-853-0	6	NUT; GLOW PLUG M4 FLANGE	
201	1-09639-034-0	6	GASKET; SLEEVE,INJ PUMP OD=30	
266	8-98018-462-0	6	SLEEVE ASM; NOZZLE HOLDER	

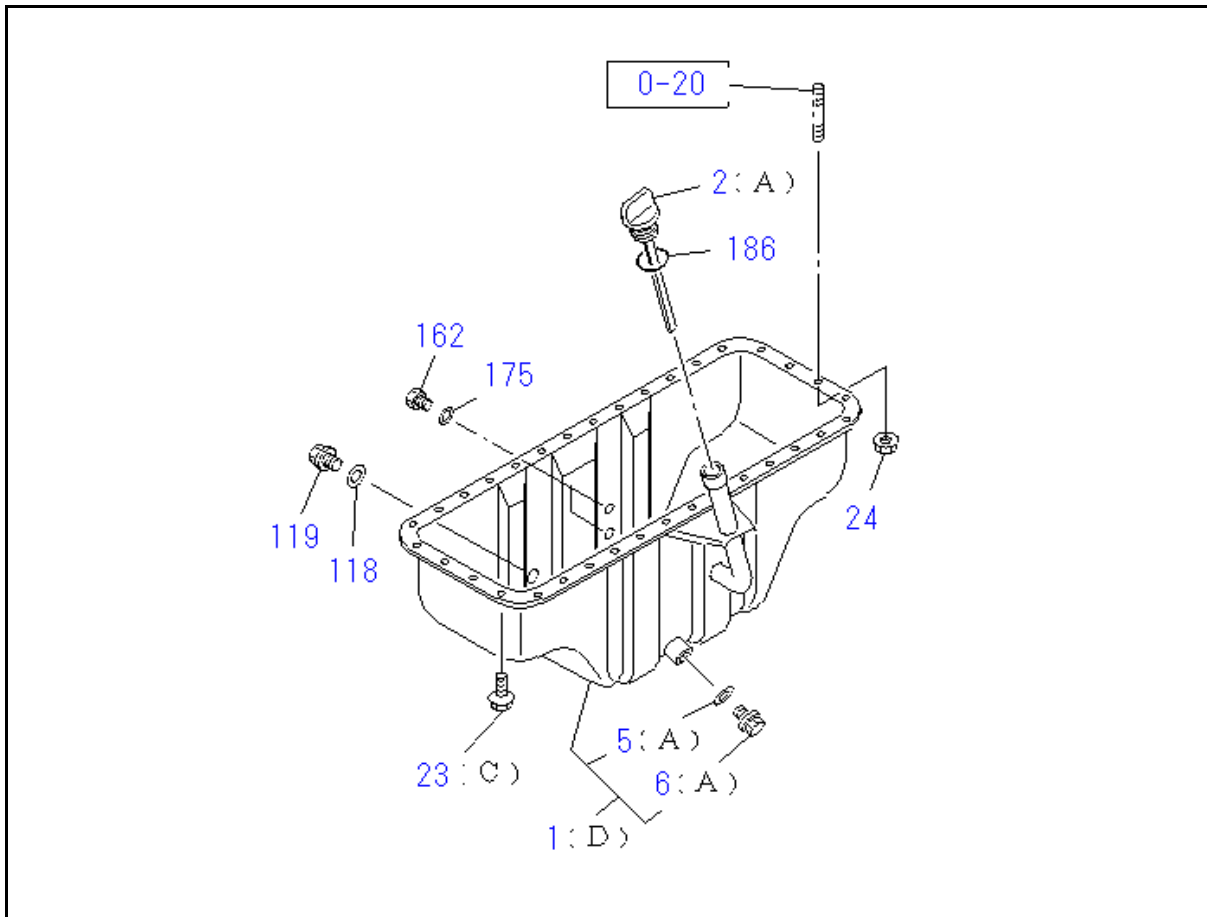
0-12 CYLINDER BLOCK



KEY No.	Part no.	qty	Part description	Engine serial no.
1	8-98206-965-0	1	BLOCK ASM; CYL	
2	1-87814-205-1	6	LINER SET; ENG CYL OD GRADE=1X	
2	1-87814-206-1	6	LINER SET; ENG CYL OD GRADE=3X	
4	8-94391-602-1	6	LINER; C/BL OD GRD=1X,ID=NON	
4	8-94391-603-1	6	LINER; C/BL OD GRD=3X,ID=NON	
10 (A)	8-97506-408-0	1	CONNECTOR; WATER DRAIN	
10 (B)	8-94396-378-0	1	CONNECTOR; WATER DRAIN	
30	8-94399-688-1	2	PIN; CYL HD GASKET SETTING OD=18.15	
34	8-94393-077-1	1	VALVE; OIL RELIEF	
35	5-09623-035-0	1	GASKET; RELIEF VLV ID=27.7	
36 (A)	8-97036-550-1 <1-09600-005-2>	4	CUP; SEALING,WATER JACKET OD=45	
36 (B)	1-09600-016-0	1	CUP; SEALING,WATER JACKET OD=25	
36 (C)	8-94399-005-0	1	CUP; SEALING,WATER JACKET OD=25	
36 (D)	8-97096-824-0	4	CUP; SEALING,WATER JACKET OD=40	
38	8-94483-674-0	2	PIN; TIMING GEAR CASE L=22	
55	9-00097-011-0	1	PLUG; OIL GALLERY 3/8" BALL	
56	8-98173-342-0	6	JET; OIL,PISTON COOLING	

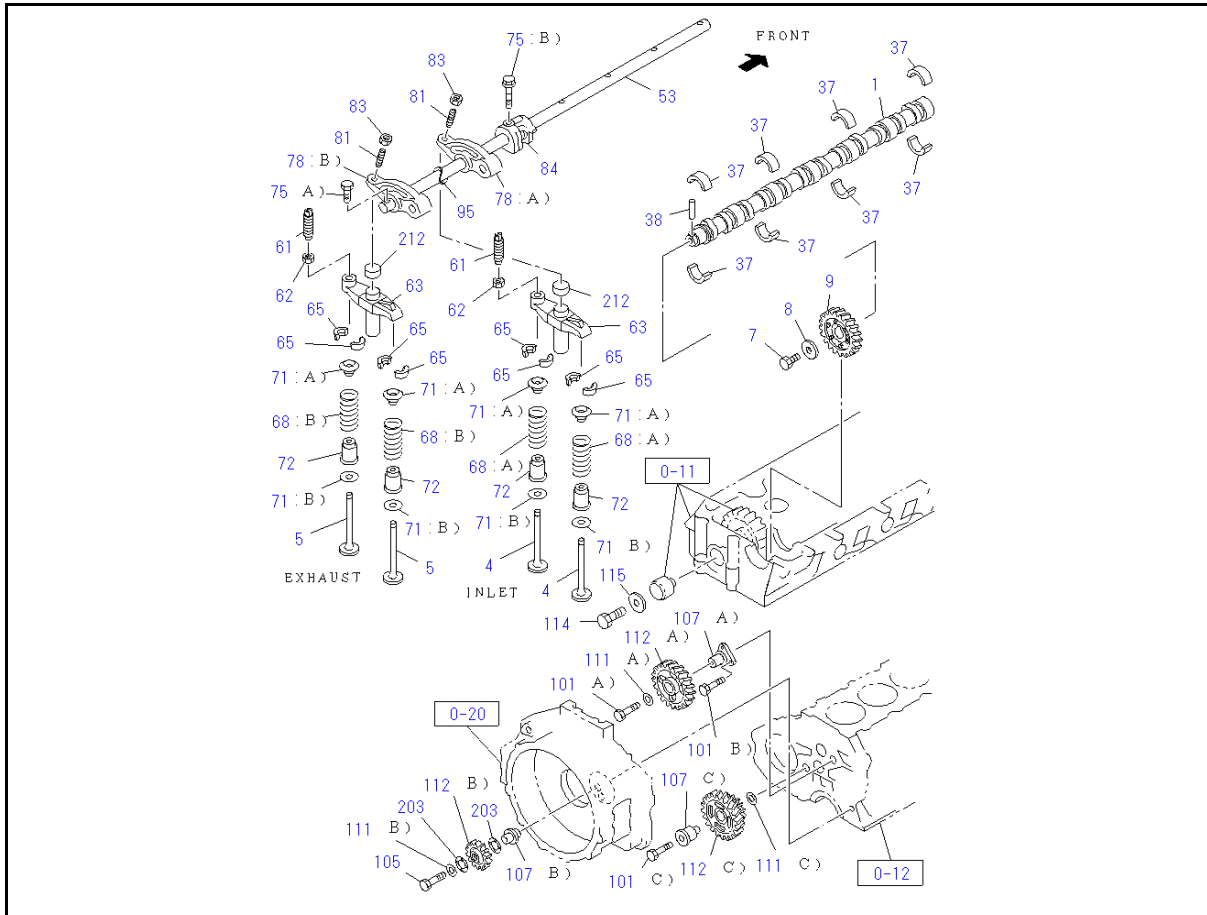
KEY No.	Part no.	qty	Part description	Engine serial no.
81	8-94397-338-0	1	PLUG; WATER JACKET PT3/8	
83	8-94483-674-0	2	PIN; FLYWHEEL HSG L=22	
89	9-11129-128-0	3	CUP; SEALING,OIL GALLERY OD=20	
132	8-94394-419-1	6	VALVE; CHECK,OIL M12X18.5	
136	8-98091-566-0	2	BUSHING; DRIVE SHAFT,OIL PUMP	
137	1-09680-024-0	1	COCK; DRAIN,WATER	
162	0-03559-300-0	1	HOSE; WATER DRAIN,C/BL L=350 S.B.L.=3000	
211 (A)	8-94399-553-2	25	BOLT; CRANKCASE M10X82 FLANGE	
211 (B)	8-97077-638-0	14	BOLT; CRANKCASE M14X115 W/FLANGE	
212	8-97135-423-0	2	PIN; CRANKCASE OD=10 L=20	
232	1-09302-089-0	1	STUD; WATER PUMP	
256	1-09630-141-0	1	GASKET; ADAPTER ID=14.2 OD=25	
259	1-09623-184-0	1	GASKET; ADAPTER ID=38.7	
262	9-09862-156-0	1	PLUG; ADAPTER M14X14	
267 (A)	8-94122-679-0	1	CLIP; DRAIN HOSE ID=17.1	
267 (B)	8-97148-892-1 <1-09704-100-0>	1	CLIP; DRAIN HOSE	
283	8-94173-731-0 <8-94249-289-0>	1	COVER; WATER DUCT ID=12 L=30	
303	1-09630-141-0	1	GASKET; PLUG ID=14.2 OD=25	
335 (B)	8-97329-617-0	4	PLUG; C/BL,SIDE M14X16.5	
335 (C)	8-98003-416-0	1	PLUG; C/BL,SIDE M8X10	
338 (A)	5-11129-003-0	1	CUP; SEALING,GUIDE TUBE HOLE OD=15.6	
338 (B)	5-11129-003-0	2	CUP; SEALING,GUIDE TUBE HOLE OD=15.6	
403	8-94395-351-1	1	GUIDE; GALLERY	
413	0-41010-830-0	2	STUD; ADAPTER M8X30 L=41	
414	0-91180-208-0	2	NUT; ADAPTER M8 FLANGE	
504	8-97066-386-1	2	STUD; INJ PUMP M10X46.5 L=58.5	
505	8-97611-854-0	1	ADAPTER; WATER FEED	

0-13 OIL PAN AND LEVEL GAUGE



KEY No.	Part no.	qty	Part description	Engine serial no.
1 (D)	8-98373-979-0	1	PAN ASM; OIL	
2 (A)	8-97550-696-0	1	GAUGE; OIL LEVEL	
5 (A)	1-09623-058-0	1	GASKET; PLUG,OIL DRAIN ID=26.8	
6 (A)	1-09604-022-0	1	PLUG; OIL DRAIN M24X17 FLANGE	
23 (C)	0-28080-818-0	30	BOLT; OIL PAN M8X18 FLANGE	
24	0-91180-108-0	4	NUT; OIL PAN M8 FLANGE	
118	9-09571-424-0	1	GASKET; PLUG,OIL HTR ID=24.5 OD=32	
119	1-09604-022-0	1	PLUG; OIL HTR BLIND M24X17 FLANGE	
162	0-92002-416-0	2	PLUG; OIL PAN M16X12	
175	9-09571-416-0	2	GASKET; PLUG,OIL PAN ID=16.2 OD=24	
186	1-09623-246-0	1	GASKET; LEVEL GAUGE	

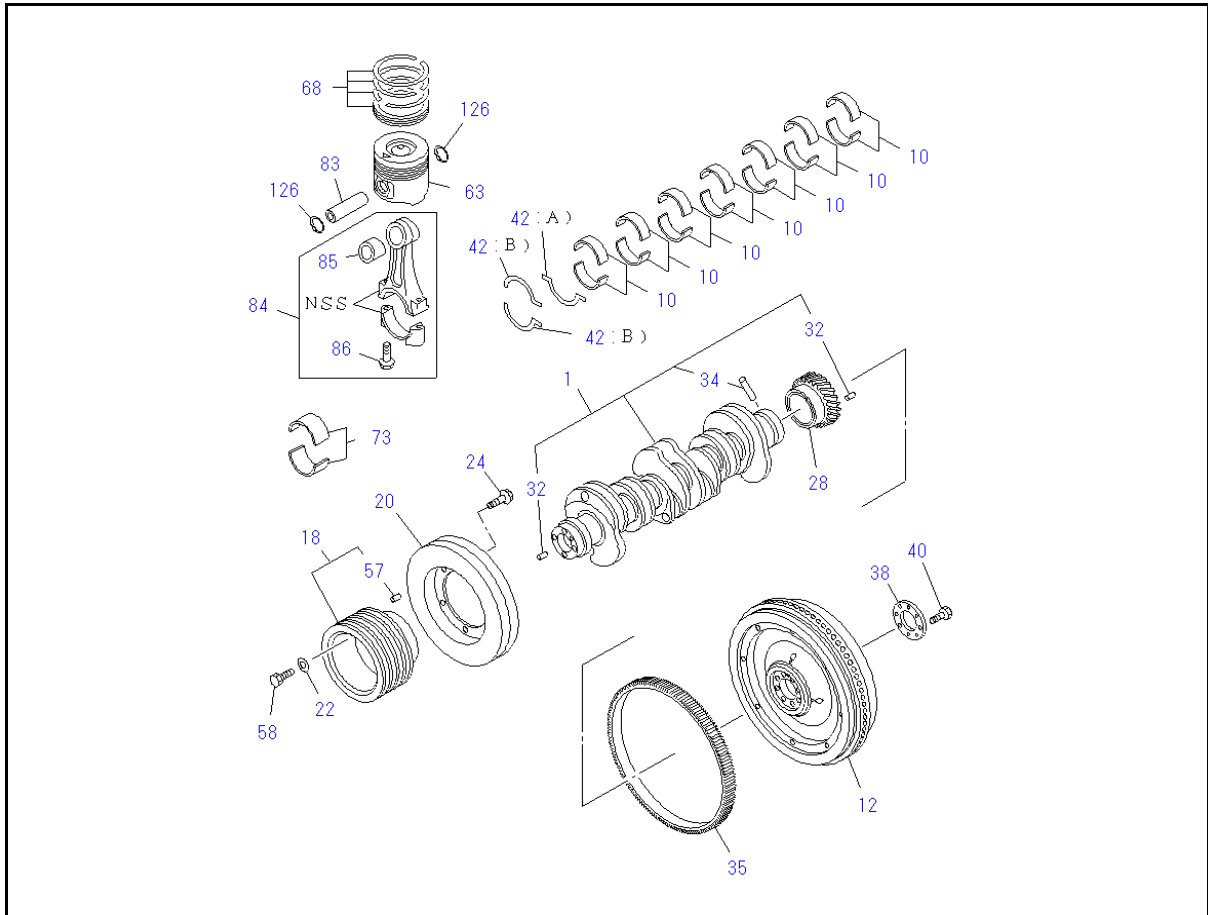
0-14 CAMSHAFT AND VALVE



KEY No.	Part no.	qty	Part description	Engine serial no.
1	8-98227-261-1	1	CAMSHAFT	
4	8-94395-882-2	12	VALVE; INL	
5	8-97209-876-4	12	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	8-98018-934-3	1	GEAR; CM/SHF Z=35	
37	8-97386-189-0	4	METAL; CM/SHF B=16 UPPER	
37	8-97602-699-0	4	METAL; CM/SHF B=26 LOWER	
38	8-94399-487-0	1	PIN; CAM BRG SET OD=7 L=7.5	
53	8-97389-918-0	1	SHAFT; ROCKER ARM	
61	8-94394-803-0	12	SCREW; ADJ,BRIDGE M8X21	
62	9-09844-574-0	12	NUT; ADJ SCREW LK BRIDGE M8	
63	8-94392-002-3	12	BRIDGE	
65	5-12565-004-0	48	COLLAR; SPLIT	
68 (A)	8-97352-888-0	12	SPRING; VLV INLET;MARK BLUE	
68 (B)	8-94395-885-1	12	SPRING; VLV EXHAUST;MARK WHITE	
71 (A)	8-94391-468-0	24	SEAT; SPR ID=14.3 T=1.0	
71 (B)	8-94390-783-2	24	SEAT; SPR OD=32.8 T=12.75	

KEY No.	Part no.	qty	Part description	Engine serial no.
72	8-97376-720-0	24	SEAL; VLV GUIDE	
75 (A)	0-28050-840-0	2	BOLT; BRKT M8X40 FLANGE	
75 (B)	8-94393-131-0	5	BOLT; BRKT M10X62 FLANGE	
78 (A)	8-97306-421-3	6	ARM; ROCKER INLET	
78 (B)	8-97306-424-3	6	ARM; ROCKER EXHAUST	
81	8-94395-024-0	12	SCREW; ADJ,ROCKER ARM M10 L=32	
83	0-91111-510-0	12	NUT; ADJ SCREW,LK M10	
84	8-94395-836-2	5	BRACKET; ROCKER SHAFT,INTER	
95	8-94392-999-0	6	SPRING; ROCKER SHAFT	
101 (A)	0-23951-430-0	1	BOLT; THRUST COLLAR M14X30	
101 (B)	0-28060-816-0	3	BOLT; THRUST COLLAR M8X16 FLANGE	
101 (C)	0-16956-460-0	1	BOLT; THRUST COLLAR M14X60	
105	8-97113-167-0 <8-97066-798-0>	1	BOLT; IDLE GEAR SHAFT M14X65	
107 (A)	8-97350-021-0	1	SHAFT; IDLE GEAR	
107 (B)	8-98041-099-0	1	SHAFT; IDLE GEAR	
107 (C)	8-98145-650-0	1	SHAFT; IDLE GEAR	
111 (A)	8-97209-728-2	1	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	
111 (C)	8-94396-897-0	1	COLLAR; THRUST,IDLE GEAR ID=24 OD=60	
112 (A)	8-97606-767-0	1	GEAR; IDLE Z=61	
112 (B)	8-98041-565-0	1	GEAR; IDLE Z=34	
112 (C)	8-98145-647-1	1	GEAR; IDLE Z=72-60-30	
114	8-94372-221-1	1	BOLT; IDLE GEAR M14X36.5	
115	8-97209-728-2	1	WASHER; THRUST,IDLE GEAR ID=14.5 OD=46	
203	8-98041-089-0	2	WASHER; THRUST	
212	8-94396-015-2	12	CAP; ADJ SCREW	

0-15 CRANKSHAFT,PISTON AND FLYWHEEL

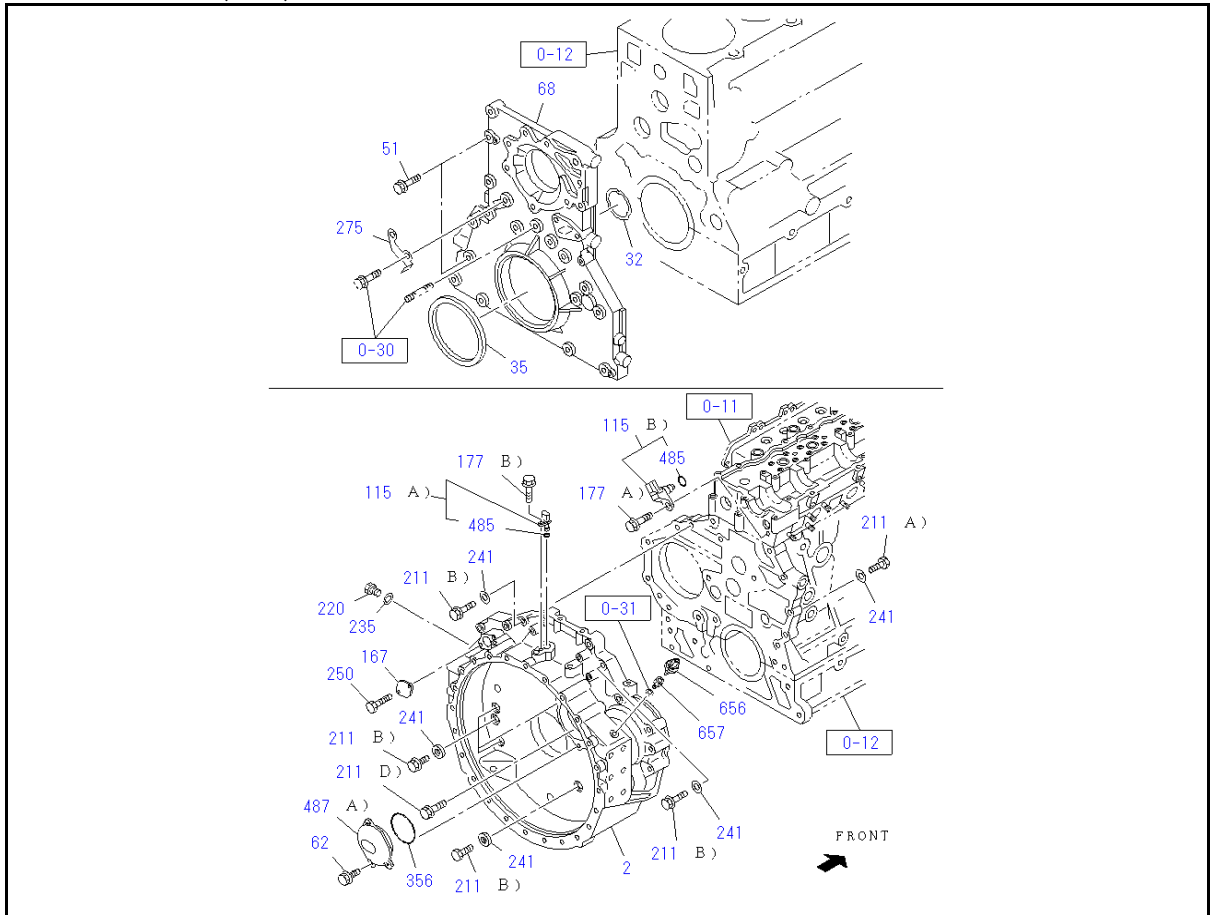


KEY No.	Part no.	qty	Part description	Engine serial no.
1	8-97603-004-0	1	CRANKSHAFT	
10	8-97372-076-1	7	METAL SET; CRANKSHAFT,STANDARD BLUE	
10	8-97372-077-1	7	METAL SET; CRANKSHAFT,STANDARD BLACK	
10	8-97372-078-1	7	METAL SET; CRANKSHAFT,STANDARD BROWN	
12	8-97526-475-0	1	FLYWHEEL	
18	1-12371-458-2	1	PULLEY; CR/SHF	
20	8-94392-276-3	1	DAMPER; CR/SHF	
22	9-09851-935-0	4	PLATE; PULLEY ID=17 OD=30	
24	0-28151-016-0	6	BOLT; DAMPER M10X16 FLANGE	
28	8-94392-255-1	1	GEAR; CR/SHF Z=42	
32	9-08150-816-0	2	PIN; FLYWHEEL OD=8 L=16	
34	9-09878-626-0	1	PIN; GEAR SETTING OD=5 L=6	
35	8-94391-953-0	1	GEAR; RING	
38	8-94397-496-1	1	WASHER; FLYWHEEL ID=55 OD=110	
40	8-94393-070-2	8	BOLT; FLYWHEEL M16X62	
42 (A)	8-97386-548-0	1	WASHER; THRUST,CR/SHF	
42 (B)	8-97386-549-0	2	WASHER; THRUST,CR/SHF	
57	8-94391-156-0	1	PIN; PULLEY OD=8 L=16	

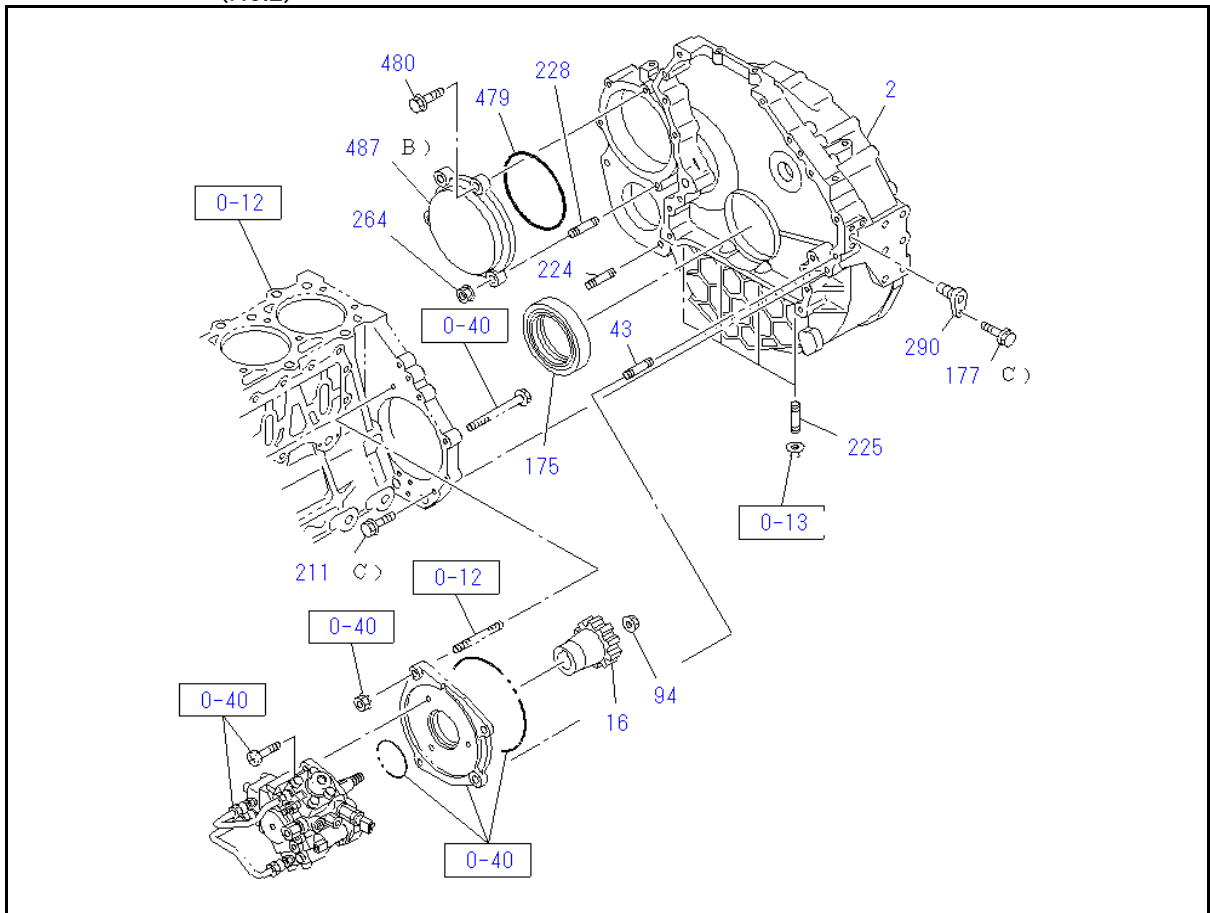
KEY No.	Part no.	qty	Part description	Engine serial no.
58	0-10956-600-0	4	BOLT; CR/SHF PULLEY M16X100	
63	8-98244-522-0	6	PISTON GRADE=NON	
68	8-98017-166-0	6	RING SET; PISTON,STANDARD	
73	8-97616-358-0	6	METAL SET; CONN ROD,STANDARD GREEN	
73	8-97616-359-0	6	METAL SET; CONN ROD,STANDARD YELLOW	
83	8-98018-863-1	6	PIN; PISTON	
84	8-98018-425-3	6	ROD ASM; CONN	
85	8-94391-794-1	6	BUSHING; CONNROD	
86	8-98091-141-0	12	BOLT; CONNROD M13X57 FLANGE	
126	1-09587-081-1	12	RING; SNAP,PISTON PIN	

0-20 TIMING GEAR CASE AND FLYWHEEL HOUSING

(No.1)



(No.2)

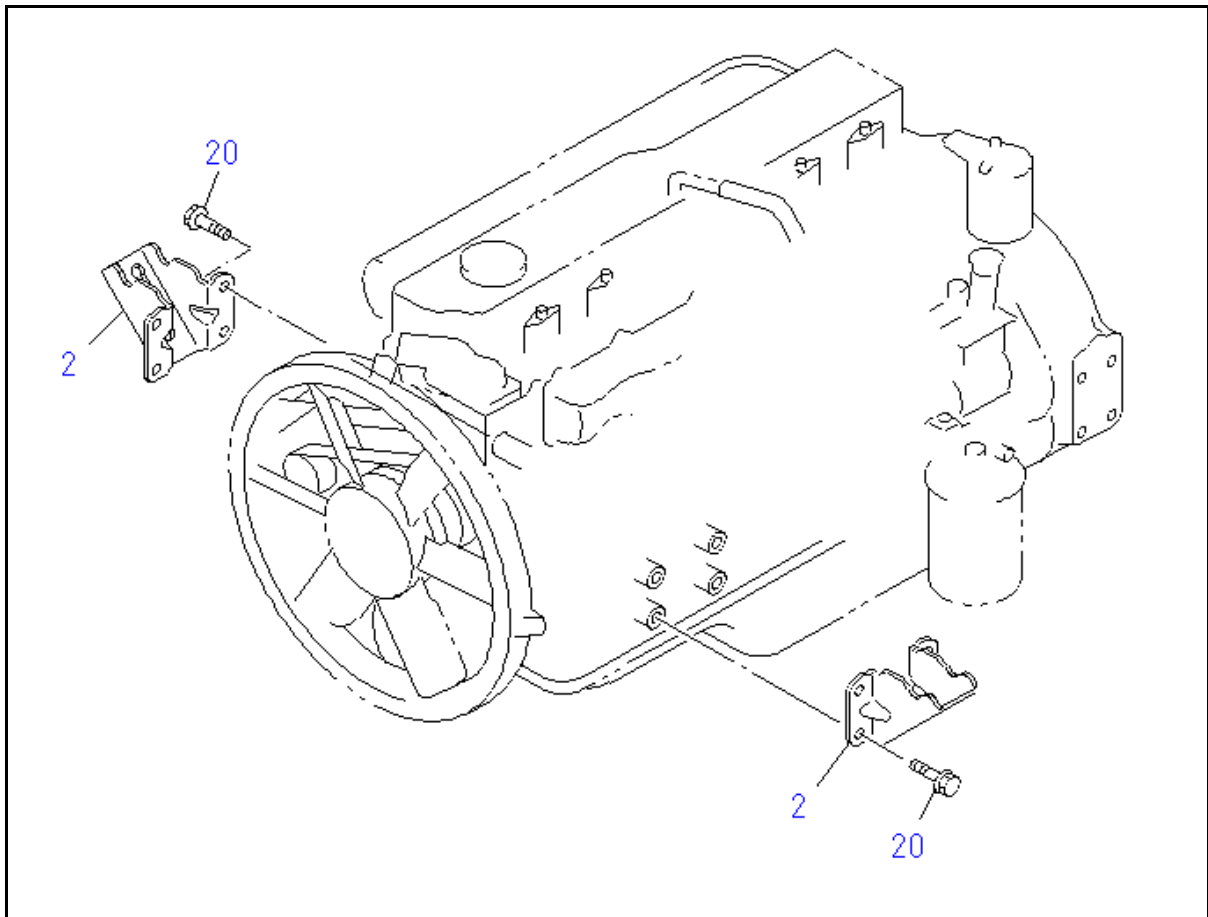


0-20 TIMING GEAR CASE AND FLYWHEEL HOUSING

KEY No.	Part no.	qty	Part description	Engine serial no.
2	8-98234-901-1	1	HOUSING; FLYWHEEL	
16	8-97601-153-1	1	GEAR; INJ PUMP DRIVE Z=35	
32	8-97028-748-1	1	GASKET; GEAR CASE TO C/BL ID=35.1	
35	8-98334-482-0	1	SEAL; OIL,CRANKSHAFT FRT ID=104 OD=137	
43	1-09302-112-1	1	STUD; BRG COVER M12X15 & M12X33 L=82	
51	0-28050-835-0	13	BOLT; GEAR CASE COVER M8X35 FLANGE	
62	0-28080-814-0	3	BOLT; COVER M8X14 FLANGE	
68	1-11321-160-1	1	COVER ASM; GEAR CASE COVER	
94	0-91180-214-0	1	NUT; GEAR M14 FLANGE	
115 (A)	8-97606-943-0	1	SENSOR; REVOLUTION,ENG SPD	
115 (B)	8-98019-024-0	1	SENSOR; REVOLUTION,ENG SPD	
167	1-11219-163-0	1	COVER; OIL	
175	8-97209-342-3	1	SEAL; OIL,CR/SHF,RR	
177 (A)	0-28050-612-0	1	BOLT; SENSOR M6X12 FLANGE	
177 (B)	0-28050-616-0	1	BOLT; SENSOR M6X16 FLANGE	
177 (C)	0-28060-612-0	1	BOLT; SENSOR M6X12 FLANGE	
211 (A)	0-16856-260-0	1	BOLT; HSG M12X60	
211 (B)	0-16956-270-0	11	BOLT; HSG M12X70	
211 (C)	0-28151-050-0	1	BOLT; HSG M10X50 FLANGE	
211 (D)	8-94393-995-0	1	BOLT; HSG M14X27 FLANGE	
220	0-92002-412-0	1	PLUG; GEAR CHECK HOLE M12X9	
224	0-44011-435-0	2	STUD; STARTER M14X35 L=56	
225	8-94396-512-0	4	STUD; OIL PAN M8X28 L=38	
228	0-44011-235-0	1	STUD; AIR CMPR M12X35 L=53	
235	8-98251-344-0	1	GASKET; PLUG GEAR CHECK HOLE ID=12.2 OD=17.2	
241	8-94393-140-1	12	WASHER; PL,HSG ID=12.5 OD=22	
250	0-28080-818-0	2	BOLT; COVER,OIL M8X18 FLANGE	
264	0-91180-212-0	1	NUT; COVER M12 FLANGE	
275	1-11327-050-1	1	POINTER; TIMING CHECK HOLE	
290	8-97101-974-0	1	PLUG; SENSOR HOLE	
356	8-94394-186-0	1	GASKET; COVER ID=110	
479	1-09623-570-0	1	GASKET; COVER ID=162	
480	0-28151-270-0	3	BOLT; COVER M12X70 FLANGE	

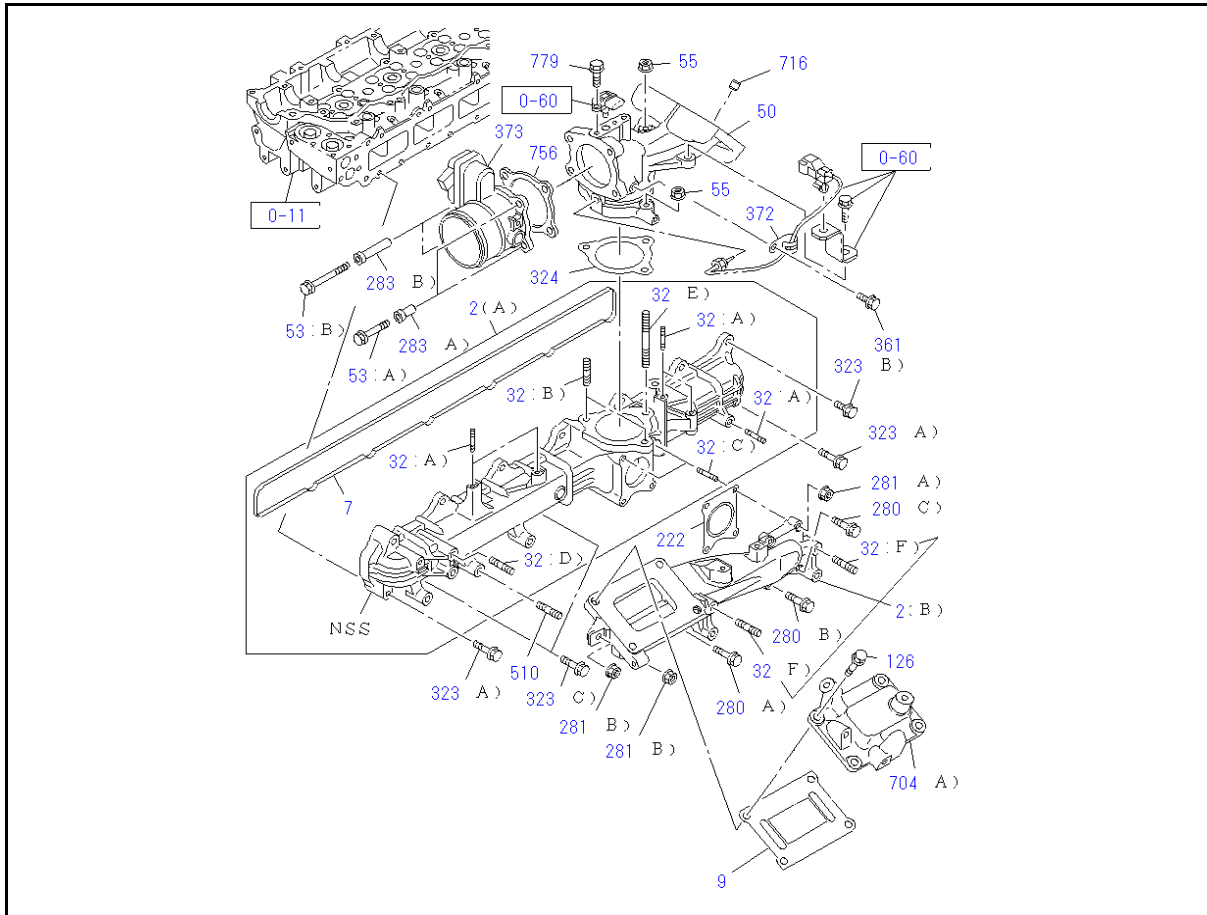
KEY No.	Part no.	qty	Part description	Engine serial no.
485	8-97369-404-0	2	GASKET; SENSOR ID=14.2 OD=18.8	
487 (A)	8-98023-824-1	1	COVER; HOLE	
487 (B)	8-97601-420-1	1	COVER; HOLE	
656	8-98319-376-0	1	SWITCH; AIR PRESSURE	
657	8-97526-480-0	1	ADAPTER; SWITCH	

0-22 ENGINE MOUNTING



KEY No.	Part no.	qty	Part description	Engine serial no.
2	8-94393-491-1	2	FOOT; ENG	
20	8-94395-721-0	8	BOLT; ENG FOOT M10X20 FLANGE	

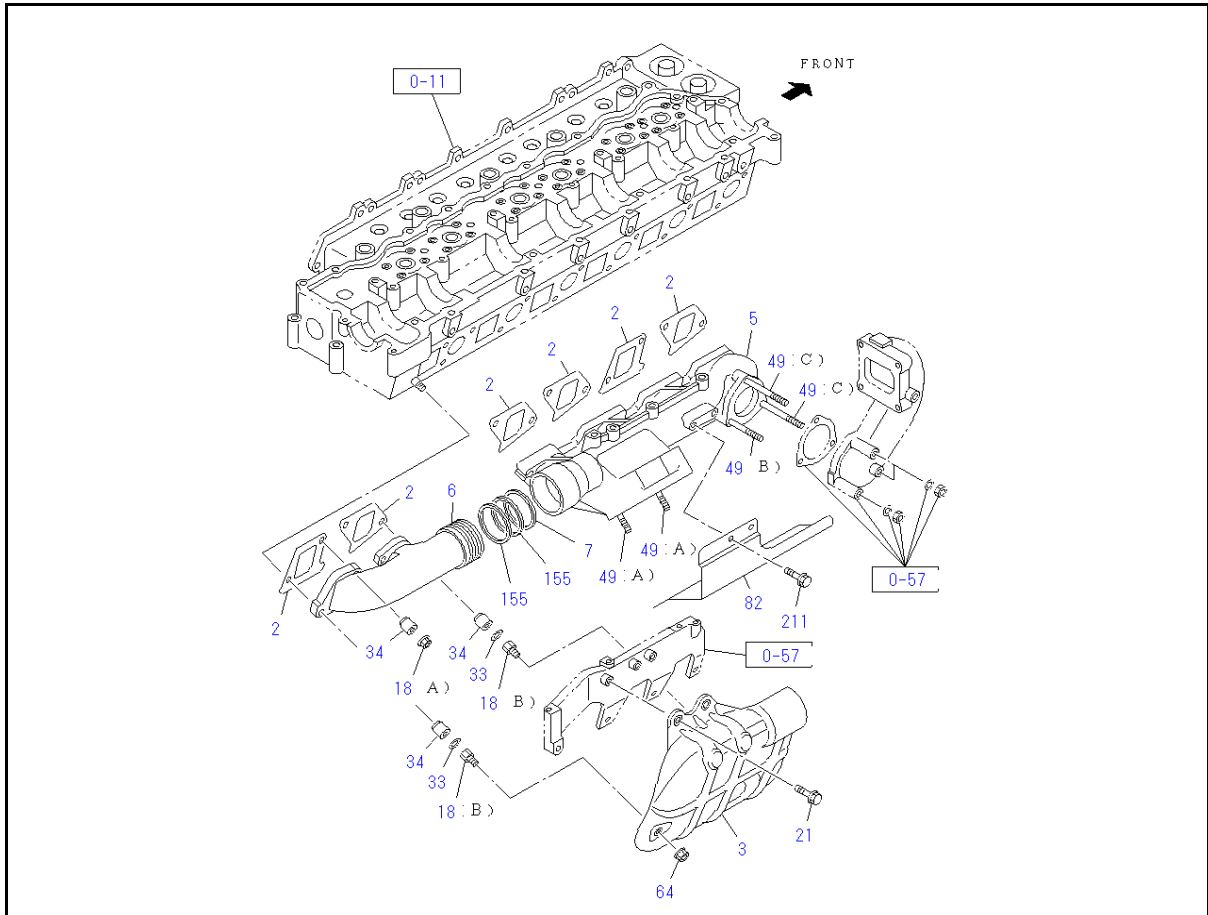
0-25 INLET MANIFOLD



KEY No.	Part no.	qty	Part description	Engine serial no.
2 (A)	8-98238-367-0	1	COVER; INL	
2 (B)	8-98240-157-1	1	COVER; INL	
7	8-94390-775-0	1	GASKET; INL MANIF TO HD	
9	8-97608-423-0	1	GASKET; DUCT	
32 (A)	0-41010-630-0	5	STUD; INL PIPE M6X30 L=38	
32 (B)	0-41010-825-0	2	STUD; INL PIPE M8X25 L=37	
32 (C)	0-41010-828-0	2	STUD; INL PIPE M8X28 L=40	
32 (D)	0-44011-030-0	1	STUD; INL PIPE M10X30 L=45	
32 (E)	9-09630-022-0	1	STUD; INL PIPE M8X120 L=133	
32 (F)	0-44011-050-0	2	STUD; INL PIPE M10X50 L=65	
50	8-98236-613-0	1	PIPE; INL	
53 (A)	0-28050-830-0	2	BOLT; INL PIPE M8X30 FLANGE	
53 (B)	0-28050-870-0	2	BOLT; INL PIPE M8X70 FLANGE	
55	0-91180-108-0	3	NUT; INL PIPE M8 FLANGE	
126	0-28751-035-0	4	BOLT; COVER M10X35 FLANGE	
222	8-97605-995-0	1	GASKET; INL COVER ID=52	
280 (A)	0-28151-030-0	1	BOLT; INL COVER M10X30 FLANGE	

KEY No.	Part no.	qty	Part description	Engine serial no.
280 (B)	0-28650-830-0	1	BOLT; INL COVER M8X30 FLANGE	
280 (C)	8-98034-764-0	1	BOLT; INL COVER M8X30 FLANGE	
281 (A)	0-91180-108-0	2	NUT; INL COVER M8 FLANGE	
281 (B)	0-91180-110-0	2	NUT; INL COVER M10 FLANGE	
283 (A)	8-97219-650-0	2	RUBBER L=18	
283 (B)	8-97387-995-1	2	RUBBER L=58	
323 (A)	0-28050-850-0	6	BOLT; DUCT M8X50 FLANGE	
323 (B)	0-28650-825-0	6	BOLT; DUCT M8X25 FLANGE	
323 (C)	8-97229-317-1	2	BOLT; DUCT M8X48 FLANGE	
324	8-97601-777-0	1	GASKET; INL PIPE TO INL CVR ID=78	
361	0-28050-612-0	1	BOLT; CLIP M6X12 FLANGE	
372	8-94178-108-0	1	CLIP; HOSE ID=21 L=47.5	
373	8-98100-899-4	1	THROTTLE ASM; INT	
510	0-44011-030-0	1	STUD; INL DUCT M10X30 L=45	
704 (A)	8-97526-482-0	1	COVER	
716	9-11319-065-3	2	DOWEL; DUCT OD=14 L=10	
756	8-97387-009-0	1	GASKET; INTAKE, THROTTLE ID=88	
779	0-28050-612-0	2	BOLT; SENSOR M6X12 FLANGE	

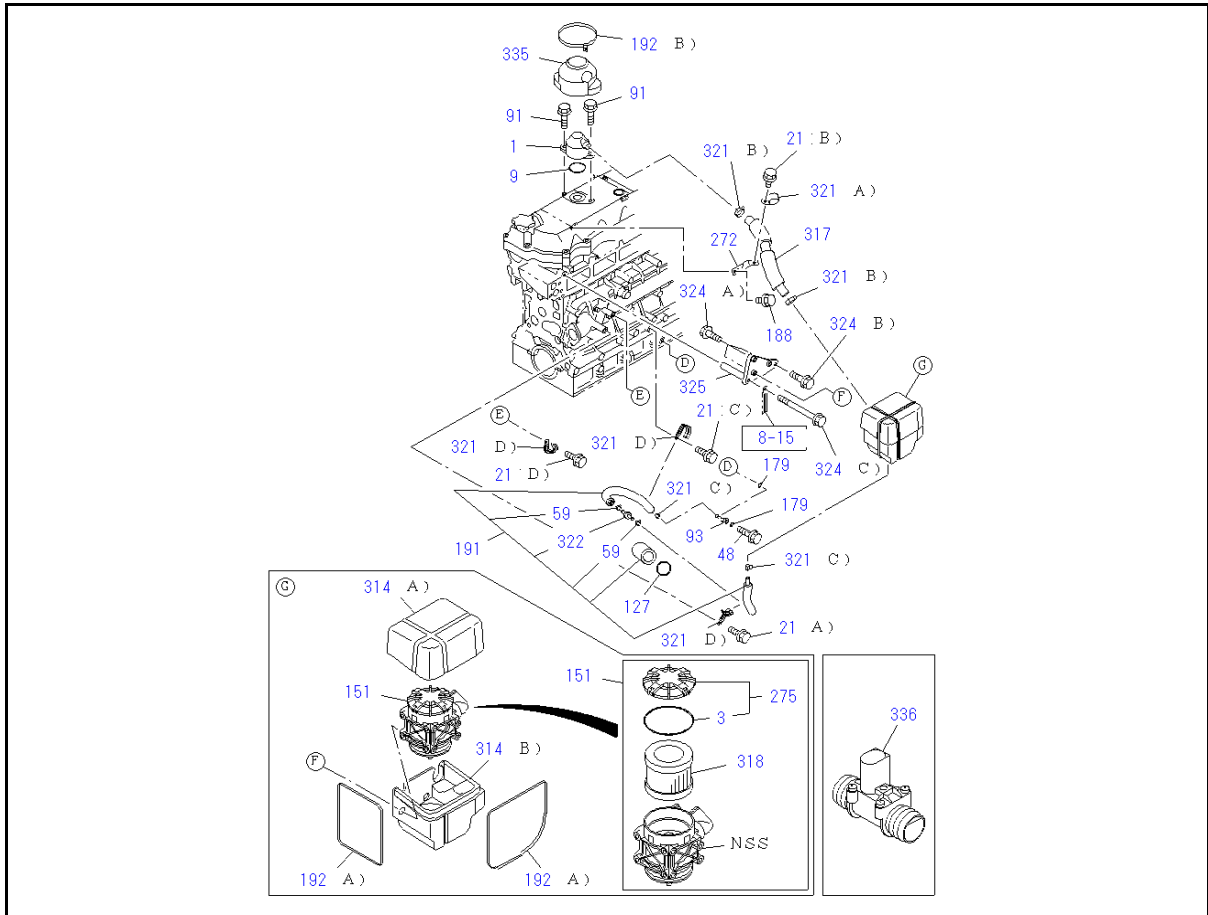
0-27 EXHAUST MANIFOLD



KEY No.	Part no.	qty	Part description	Engine serial no.
2	8-94393-672-4	6	GASKET; EXH MANIF TO HD	
3	8-98205-395-0	1	PROTECTOR; HEAT,EXH MANIF	
5	8-98106-362-1	1	MANIFOLD; EXH,FRT	
6	8-97604-944-0	1	MANIFOLD; EXH,RR	
7	1-14149-151-0	1	RING; SEAL,EXH MANIF STAMP RH	
18 (A)	0-91370-010-0	10	NUT; EXH MANIF M10 LOCK NUT	
18 (B)	8-98205-394-0	2	NUT; EXH MANIF M10 L=51	
21	0-28050-816-0	2	BOLT; HEAT PROTECTOR M8X16 FLANGE	
33	1-09556-015-0	2	WASHER; EXH MANIF T=2.2	
34	8-97250-073-1	12	COLLAR; DIST,EXH MANIF L=28	
49 (A)	8-94383-596-0	2	STUD; CENTER MANIF TO TURBOCHARGER M10X35 L=50	
49 (B)	8-97378-073-0	1	STUD; CENTER MANIF TO TURBOCHARGER M10X60 L=75	
49 (C)	8-98048-446-0	2	STUD; CENTER MANIF TO TURBOCHARGER M10X70 L=83	
64	0-91180-210-0	2	NUT; HEAT PROTECTOR M10 FLANGE	
82	8-98163-368-1	1	COVER; RR EXH MANIF	
155	1-14149-184-0	2	RING; SEAL,EXH MANIF	

KEY No.	Part no.	qty	Part description	Engine serial no.
211	8-97378-075-0	5	BOLT; COVER M8X14 FLANGE	

0-28 VENTILATION SYSTEM



KEY No.	Part no.	qty	Part description	Engine serial no.
1	1-11740-269-0	1	BREATHER; AIR	
3	8-97385-921-0	1	GASKET; BODY TO CAP	
9	1-09623-565-0	1	GASKET; AIR BREATHER ID=59,6	
21 (A)	0-28051-016-0	1	BOLT; CLIP M10X16 FLANGE	
21 (B)	0-28060-816-0	1	BOLT; CLIP M8X16 FLANGE	
21 (C)	0-28151-020-0	1	BOLT; CLIP M10X20 FLANGE	
21 (D)	0-28751-020-0	1	BOLT; CLIP M10X20 FLANGE	
48	1-09675-085-0	1	BOLT; PIPE M12X27 FLANGE	
59	8-98150-357-0 <8-94238-571-0>	2	CLIP; HOSE ID=13	
91	0-28151-020-0	2	BOLT; AIR BREATHER M10X20 FLANGE	
93	8-97063-234-0	1	PIPE; DRAIN	
127	8-94151-373-0	1	CLIP; RUBBER HOSE,PCV L=300	
151	8-97362-763-4 <8-97362-763-3>	1	SEPARATOR; OIL,PCV	
179	9-09571-412-0	2	GASKET; PIPE ID=12.2 OD=18	
188	0-28050-812-0	2	BOLT; BRKT M8X12 FLANGE	
191	8-98208-578-0	1	HOSE; OIL DRAIN	
192 (A)	1-09707-190-0	2	CLIP; BAND L=700	

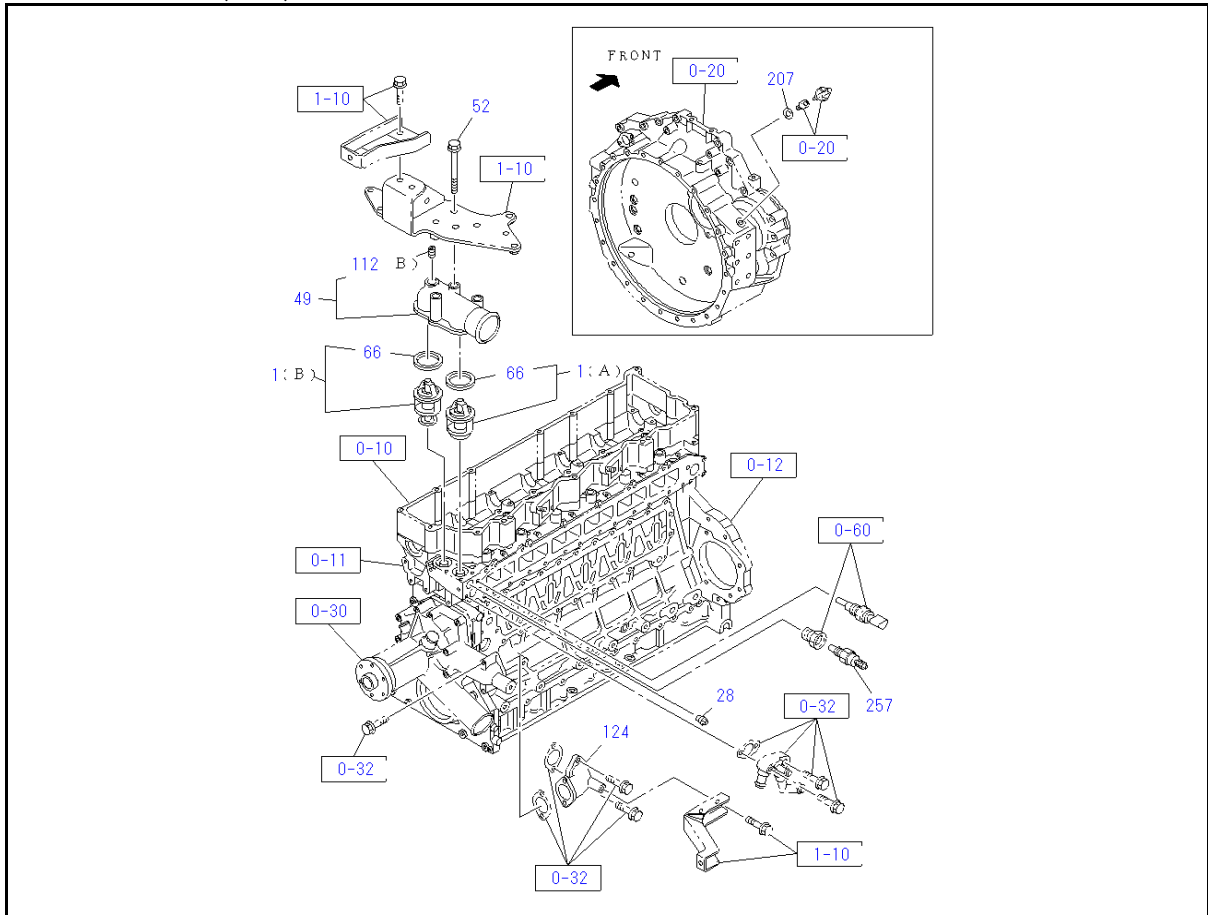
KEY No.	Part no.	qty	Part description	Engine serial no.
192 (B)	8-98216-422-0	1	CLIP; BAND L=500	
272	8-97526-479-0	1	BRACKET; PIPE	
275	8-97389-360-0	1	CAP; PCV	
314 (A)	8-97533-152-0	1	COVER; RUBBER	
314 (B)	8-97533-153-0	1	COVER; RUBBER	
317	8-97526-478-0	1	HOSE; RUBBER,OIL SEPARATOR	
318	8-98030-532-0	1	ELEMENT KIT; PCV	
321 (A)	1-09700-969-0	1	CLIP; HOSE,SEPARATOR ID=31 L=30	
321 (B)	1-09707-124-0	2	CLIP; HOSE,SEPARATOR ID=28	
321 (C)	8-98008-165-0	2	CLIP; HOSE,SEPARATOR	
321 (D)	8-98201-838-0	3	CLIP; HOSE,SEPARATOR	
322	8-94249-317-1	1	VALVE; CHECK	
324 (A)	0-28050-830-0	3	BOLT; SEPARATOR M8X30 FLANGE	
324 (B)	0-28151-025-0	1	BOLT; SEPARATOR M10X25 FLANGE	
324 (C)	0-28156-015-0	1	BOLT; SEPARATOR M10X150 FLANGE	
325	8-97526-477-2	1	BRACKET; SEPARATOR	
335	8-97526-484-0	1	COVER; AIR BREATHER	
336	8-97526-483-0	1	HEATER; PCV	

0-30 WATER PUMP AND CORROSION RESISTOR

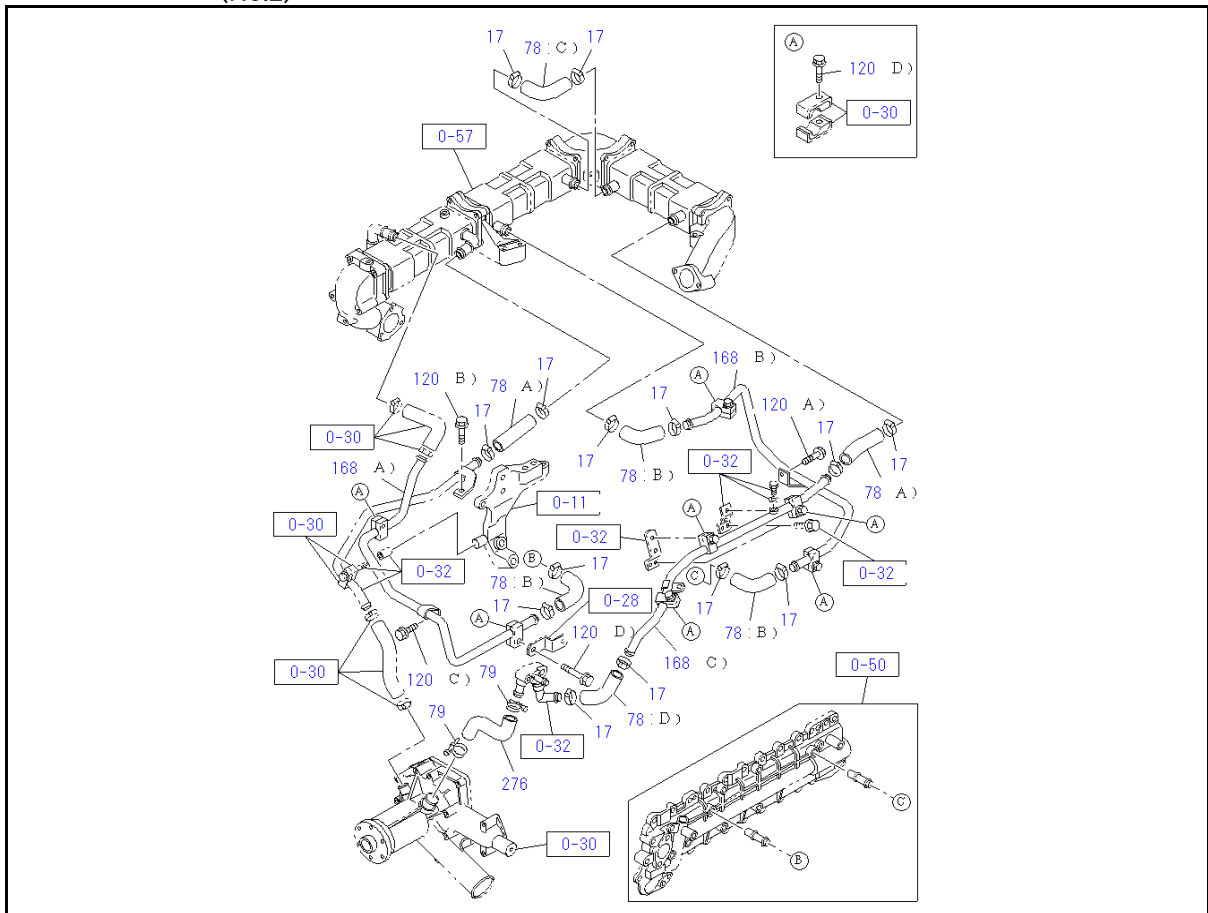
KEY No.	Part no.	qty	Part description	Engine serial no.
1	1-87310-487-0	1	PUMP ASM; WATER,W/GASKET	
3	1-13614-021-1	1	GASKET; PUMP TO C/BL	
4	1-87813-663-0	1	REPAIR KIT; WATER PUMP	
7	1-13641-193-1	1	PULLEY; WATER PUMP	
8	1-13639-029-0	1	THROWER; DUST,WATER PUMP	
9	9-09180-168-0	1	RING; SNAP,WATER PUMP OD=72.5	
10 (A)	1-09800-279-0 <1-09800-302-0>	1	BEARING; WATER PUMP	
10 (B)	1-09800-303-0	2	BEARING; WATER PUMP	
11	1-13634-044-0	1	SPACER; BRG,WATER PUMP	
17	8-94392-090-0	1	SEAL UNIT; WATER PUMP	
18	1-13621-061-0	1	IMPELLER; WATER PUMP	
19	8-98180-498-0	1	GASKET; COVER TO BODY	
20	8-98186-630-0	1	COVER; WATER PUMP	
24 (A)	0-28050-880-0	5	BOLT; WATER PUMP M8X80 FLANGE	
24 (B)	0-28055-811-0	3	BOLT; WATER PUMP M8X110 FLANGE	
25	1-13642-081-0	1	CENTER; WATER PUMP	
28	1-09503-309-0	1	WASHER; WATER PUMP	
29	1-13631-093-0	1	SHAFT; WATER PUMP	
42	0-41010-855-0	1	STUD; WATER PUMP M8X55 L=67	
54	0-28051-080-0	6	BOLT; PULLEY M10X80 FLANGE	
65	9-03090-820-0	2	SCREW; COVER,WATER PUMP M8X20 CK-HEAD	
101	8-97603-362-1	16	CLIP; WATER PIPE ID=24.5 L=22	
125 (A)	0-91180-110-0	1	NUT; WATER PUMP M10 FLANGE	
125 (B)	0-91180-108-0	1	NUT; WATER PUMP M8 FLANGE	
133 (A)	8-98126-186-0	1	HOSE; RUBBER,WATER PIPE	
133 (B)	8-98134-493-1	1	HOSE; RUBBER,WATER PIPE	
138	1-09707-132-0	4	CLIP; RUBBER HOSE ID=26-41.5	

0-31 THERMOSTAT AND HOUSING

(No.1)



(No.2)

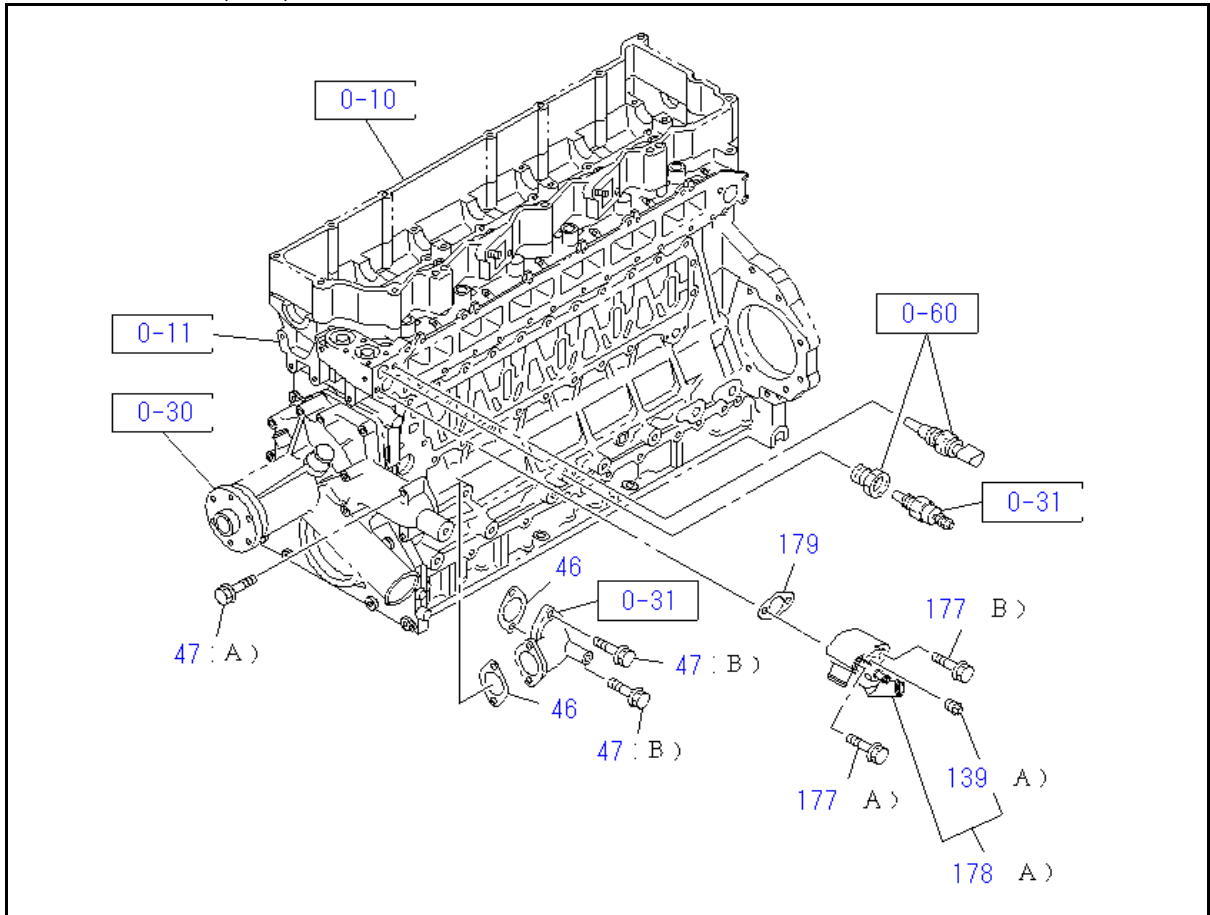


0-31 THERMOSTAT AND HOUSING

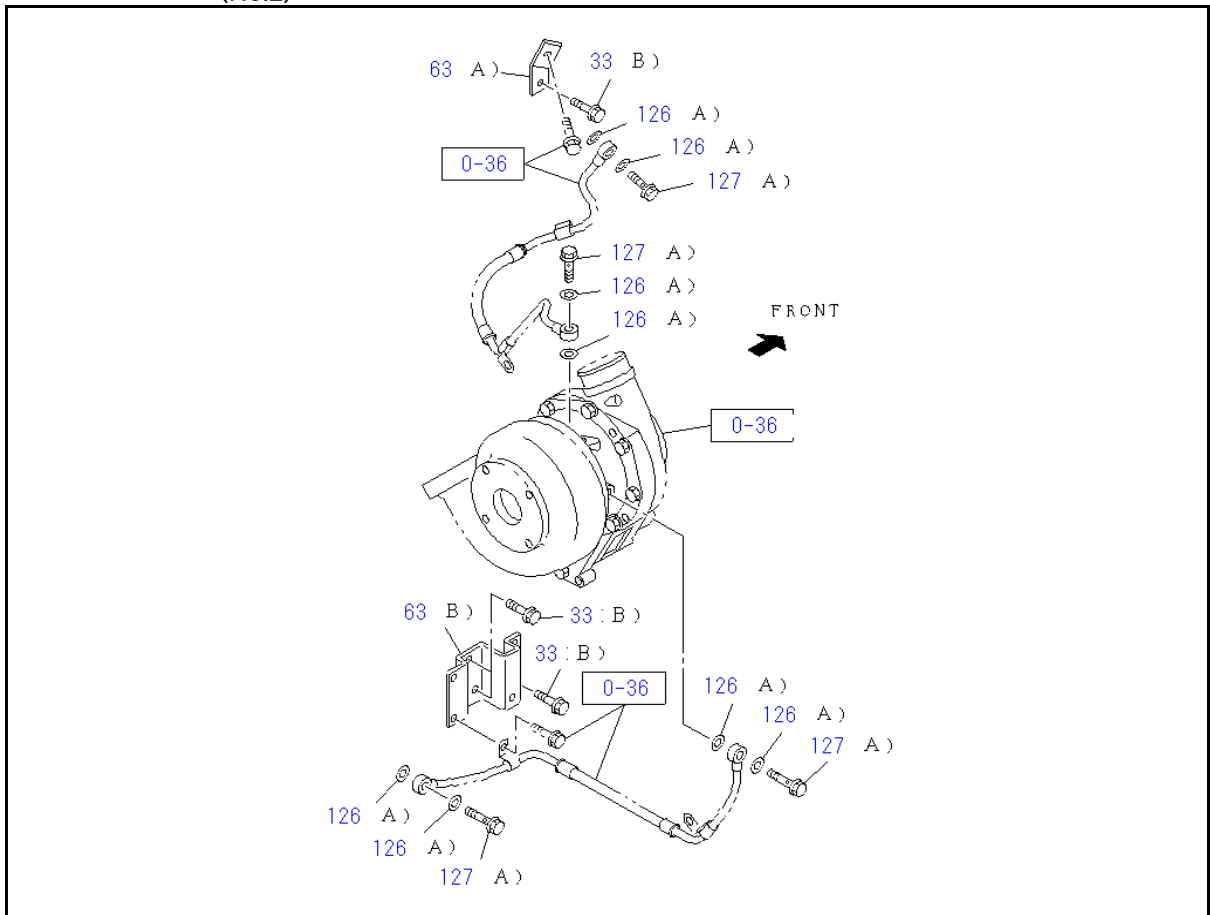
KEY No.	Part no.	qty	Part description	Engine serial no.
1 (A)	8-97602-035-3	1	THERMOSTAT 76.5 CELSIUS	
1 (B)	8-98158-778-1	1	THERMOSTAT 80 CELSIUS	
17	1-09707-132-0	14	CLIP; WATER HOSE ID=26-41.5	
28	8-94397-338-0	1	PLUG; HTR PT3/8	
49	8-94390-520-1	1	PIPE; WATER OUTLET	
52	0-28055-811-0	4	BOLT; JOINT,THERMOSTAT M8X110 FLANGE	
66	8-98280-281-0	2	GASKET; THERMOSTAT HSG ID=49.5 OD=56.5	
78 (A)	8-98096-660-0	2	HOSE; RUBBER,WATER PIPE	
78 (B)	8-98123-161-0	3	HOSE; RUBBER,WATER PIPE	
78 (C)	8-98123-162-0	1	HOSE; RUBBER,WATER PIPE	
78 (D)	8-98151-931-0	1	HOSE; RUBBER,WATER PIPE	
79	1-09704-077-0	2	CLIP; RUBBER HOSE ID=44	
112 (B)	8-94390-527-0	1	PLUG PTF1/2	
120 (A)	0-28050-812-0	1	BOLT; PIPE FIX M8X12 FLANGE	
120 (B)	0-28050-816-0	1	BOLT; PIPE FIX M8X16 FLANGE	
120 (C)	0-28151-012-0	1	BOLT; PIPE FIX M10X12 FLANGE	
120 (D)	8-94458-474-1	7	BOLT; PIPE FIX M8X53 FLANGE	
124	1-13711-806-2	1	DUCT; WATER	
168 (A)	8-98122-945-0	1	PIPE; WATER,COOLER	
168 (B)	8-98122-947-0	1	PIPE; WATER,COOLER	
168 (C)	8-98122-948-3	1	PIPE; WATER,COOLER	
207	8-94472-584-1	1	GASKET T=2.5	
257	8-97125-601-1	1	SWITCH; WARNING,OVER HEAT	
276	1-09361-035-1	1	HOSE; BYPASS	

0-32 WATER PIPING; ENGINE

(No.1)

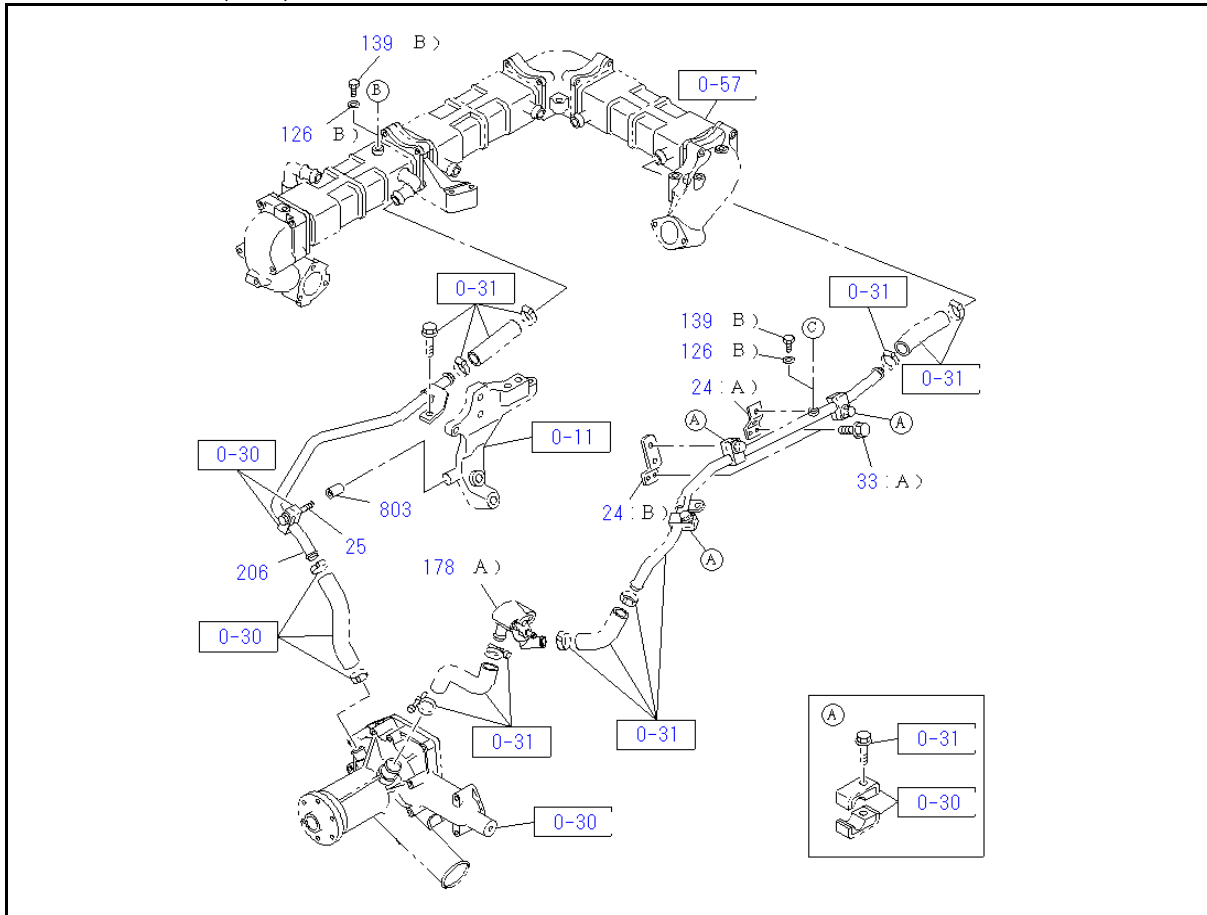


(No.2)



0-32 WATER PIPING; ENGINE

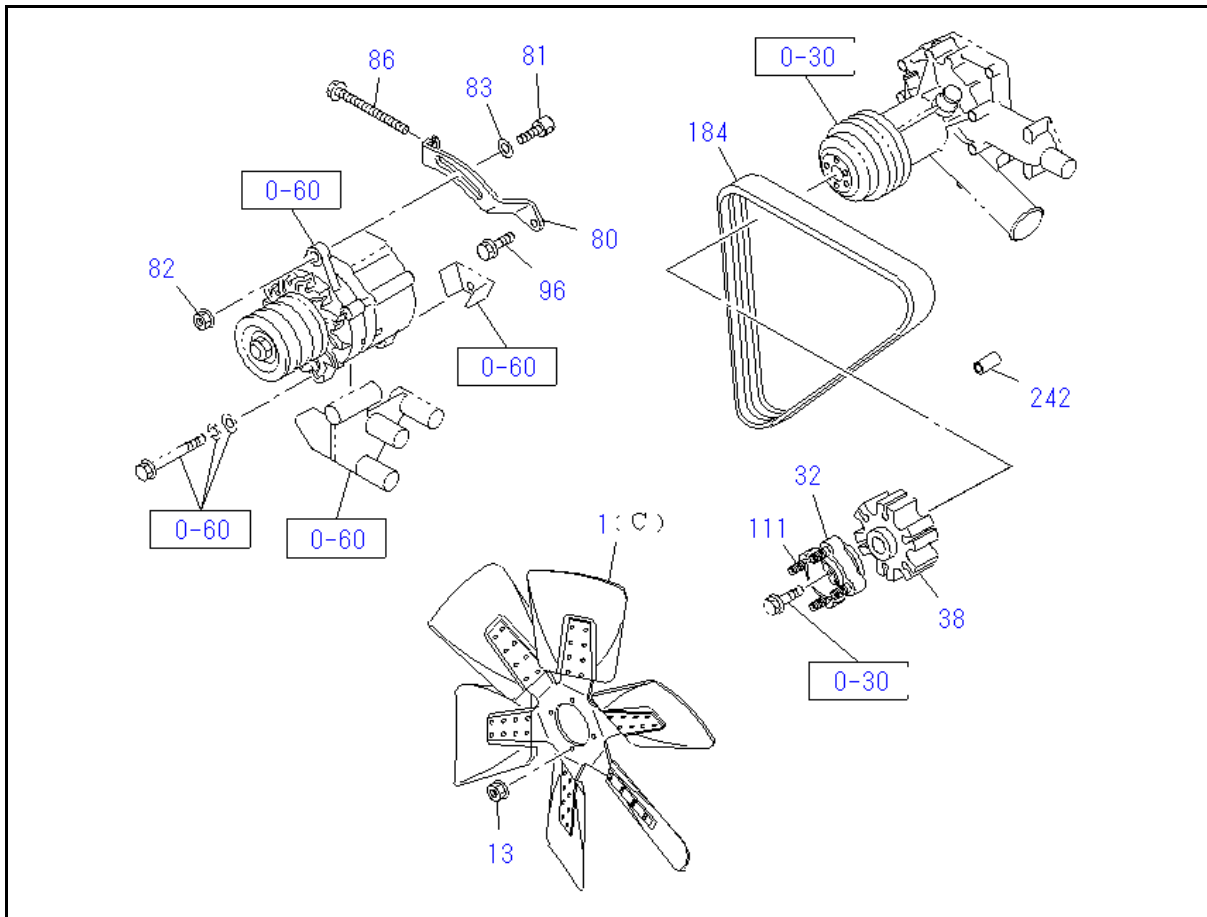
(No.3)



KEY No.	Part no.	qty	Part description	Engine serial no.
24 (A)	8-98025-683-0	1	BRACKET; WATER PIPE	
24 (B)	8-98163-398-0	1	BRACKET; WATER PIPE	
25	0-28050-890-0	1	BOLT; WATER PIPE M8X90 FLANGE	
33 (A)	0-28050-812-0	4	BOLT; BRKT M8X12 FLANGE	
33 (B)	0-28050-816-0	4	BOLT; BRKT M8X16 FLANGE	
46	1-13614-023-1	2	GASKET; WATER DUCT,TO OIL	
47 (A)	0-28050-860-0	2	BOLT; DUCT,TO OIL COOLER M8X60 FLANGE	
47 (B)	0-28650-825-0	2	BOLT; DUCT,TO OIL COOLER M8X25 FLANGE	
63 (A)	8-98046-784-0	1	BRACKET; WATER PIPE	
63 (B)	8-98114-438-0	1	BRACKET; WATER PIPE	
126 (A)	1-09630-141-0	8	GASKET; CAP NUT ID=14.2 OD=25	
126 (B)	9-09571-410-0	2	GASKET; CAP NUT ID=10.2 OD=16	
127 (A)	1-09675-193-0	4	BOLT; EYE M14X27 EYE-BOLT	
139 (A)	8-94397-338-0	1	PLUG; WATER PIPE PT3/8	
139 (B)	8-98072-712-0	2	PLUG; WATER PIPE	
177 (A)	0-28050-870-0	1	BOLT; WATER DUCT M8X70 FLANGE	
177 (B)	0-28861-670-0	1	BOLT; WATER DUCT M16X70 FLANGE	
178 (A)	8-97526-481-0	1	DUCT; WATER,BYPASS	
179	1-13614-024-1	1	GASKET; WATER DUCT	

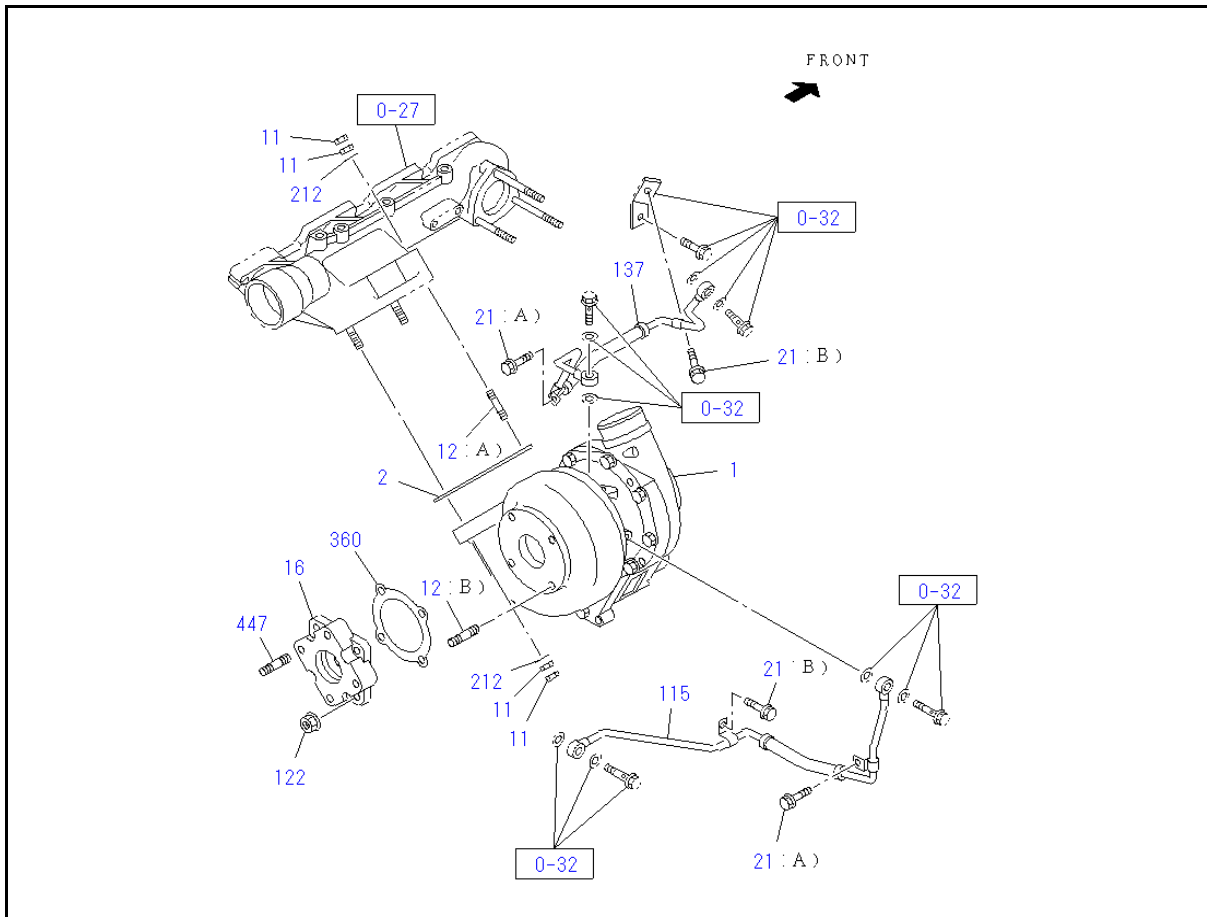
KEY No.	Part no.	qty	Part description	Engine serial no.
206	8-98122-946-0	1	PIPE; WATER,EGR COOLER	
803	5-15419-036-0	1	SPACER ID=9 OD=16 L=40	

0-33 FAN AND FAN BELT



KEY No.	Part no.	qty	Part description	Engine serial no.
1 (C)	1-13660-355-0	1	FAN; COOLING D=850-6 BLOWER	
13	0-91180-110-0	4	NUT; COOLING FAN M10 FLANGE	
32	1-13642-077-0	1	ADAPTER; FAN TO PULLEY	
38	8-98035-235-0	1	SPACER; FAN	
80	1-13674-282-1	1	PLATE; ADJ	
81	1-13674-160-0	1	PIECE; SLIDING M12X45	
82	0-91180-112-0	1	NUT; ADJ PLATE M12 FLANGE	
83	8-94217-363-0	1	WASHER; PL ID=12.5 T=5.8	
86	1-09009-114-1	1	BOLT; ADJ M10X155 FLANGE	
96	0-28151-045-0	1	BOLT; ADJ PLATE M10X45 FLANGE	
111	0-43111-025-0	4	STUD; FAN DRIVE M10X25 L=45	
184	1-13671-516-0	1	BELT; WATER PUMP DRIVE L=1240 SCRUMTYPE	
242	8-98226-641-0	3	TUBE; DISTANCE	

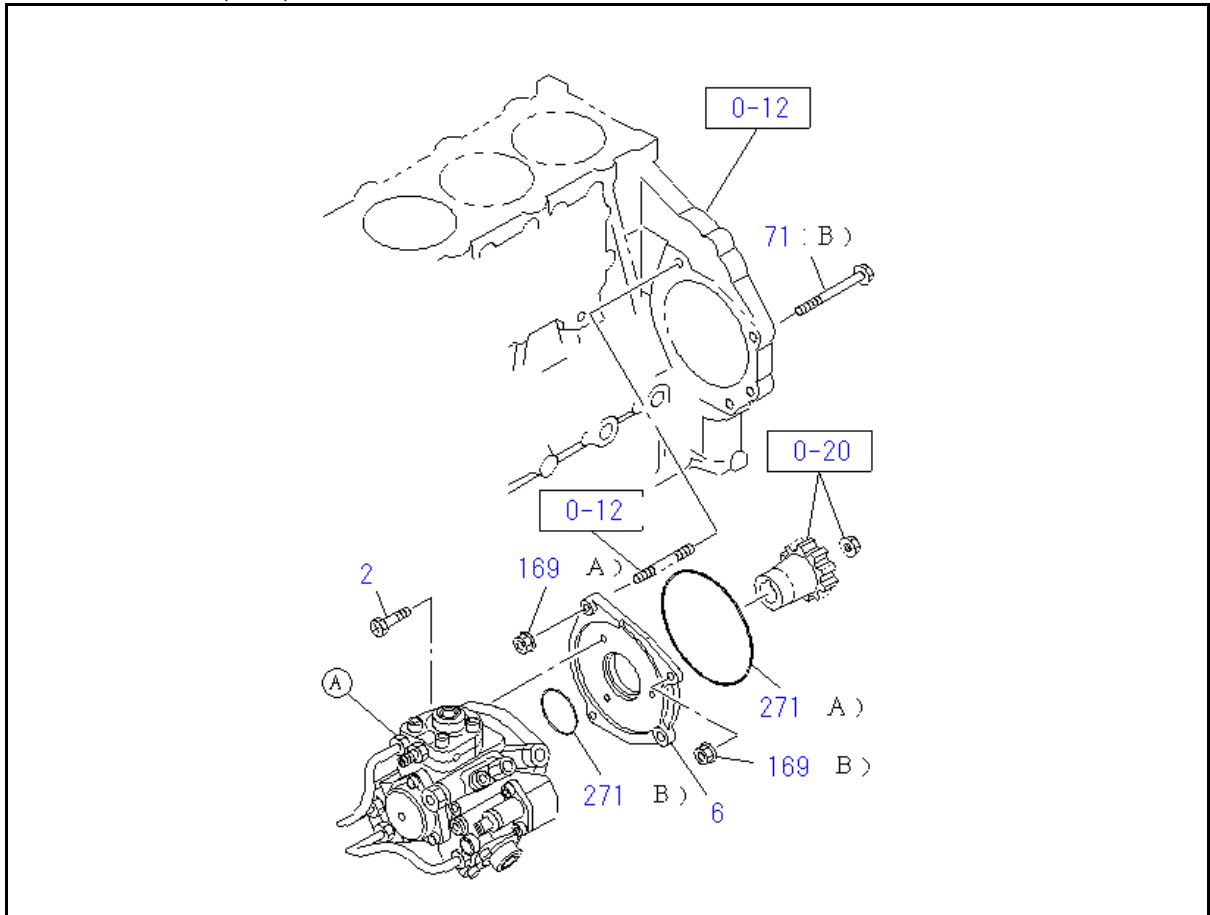
0-36 TURBOCHARGER SYSTEM



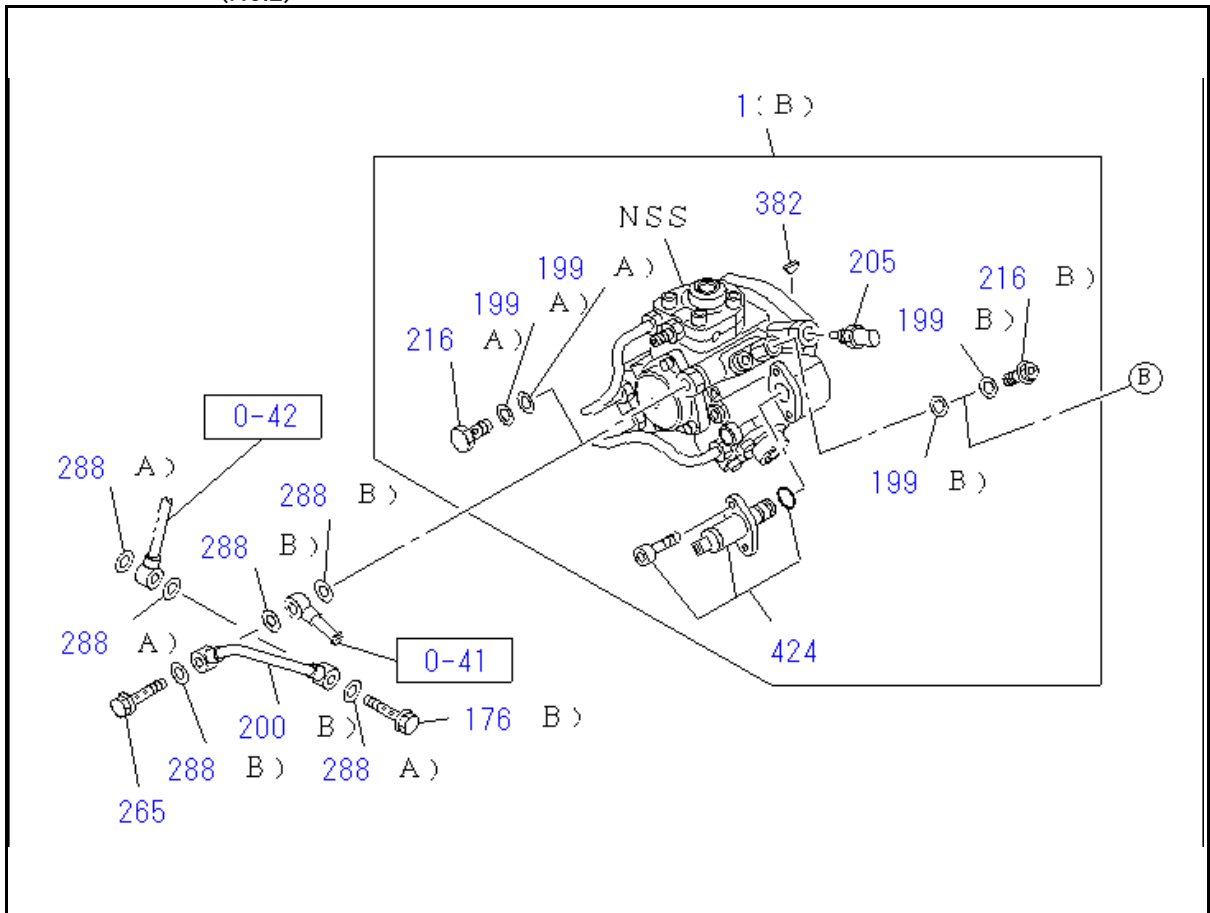
KEY No.	Part no.	qty	Part description	Engine serial no.
1	8-98260-930-1	1	TURBOCHARGER ASM	
2	8-97024-124-0	1	GASKET; TURBOCHARGER TO EXH	
11	1-09400-027-0	8	NUT; TURBOCHARGER	
12 (A)	8-98048-446-0	2	STUD; TURBOCHARGER M10X70 L=83	
12 (B)	9-04130-825-0	4	STUD; TURBOCHARGER M8X25	
16	8-98127-044-1	1	ADAPTER; EXH PIPE	
21 (A)	0-28050-812-0	2	BOLT; PIPE M8X12 FLANGE	
21 (B)	0-28050-816-0	2	BOLT; PIPE M8X16 FLANGE	
115	8-98106-909-1	1	PIPE; WATER,TURBOCHARGER OUT	
122	8-97061-401-1	4	NUT; ADAPTER M8 FLANGE	
137	8-98106-910-0	1	PIPE; WATER,TURBOCHARGER IN	
212	1-09503-222-0 <1-09503-033-1>	4	WASHER; PL,TURBOCHARGER ID=10	
360	8-94392-553-2	1	GASKET; ADAPTER TO TURBOCHARGER	
447	9-04130-825-0	4	STUD; ADAPTER M8X25	

0-40 FUEL INJECTION SYSTEM

(No.1)

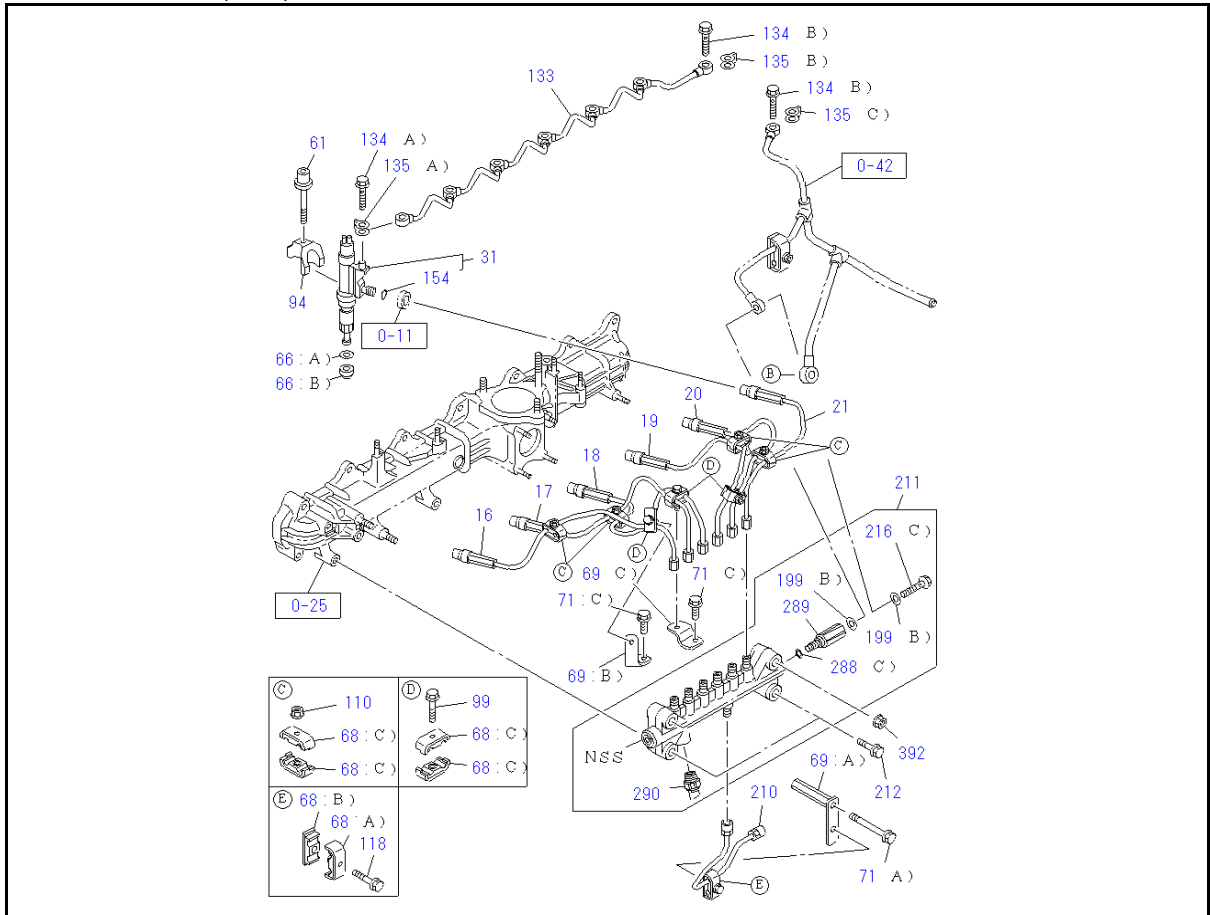


(No.2)

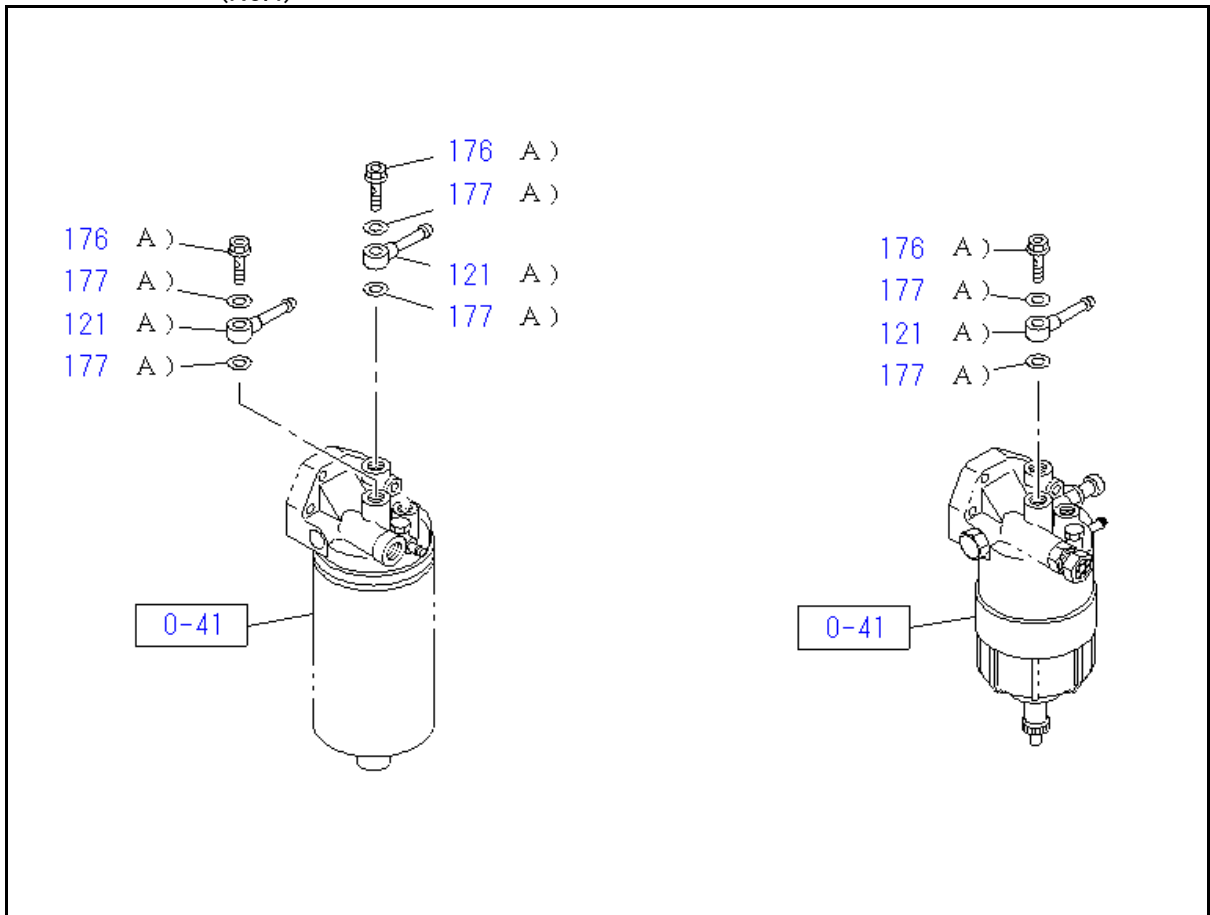


0-40 FUEL INJECTION SYSTEM

(No.3)



(No.4)

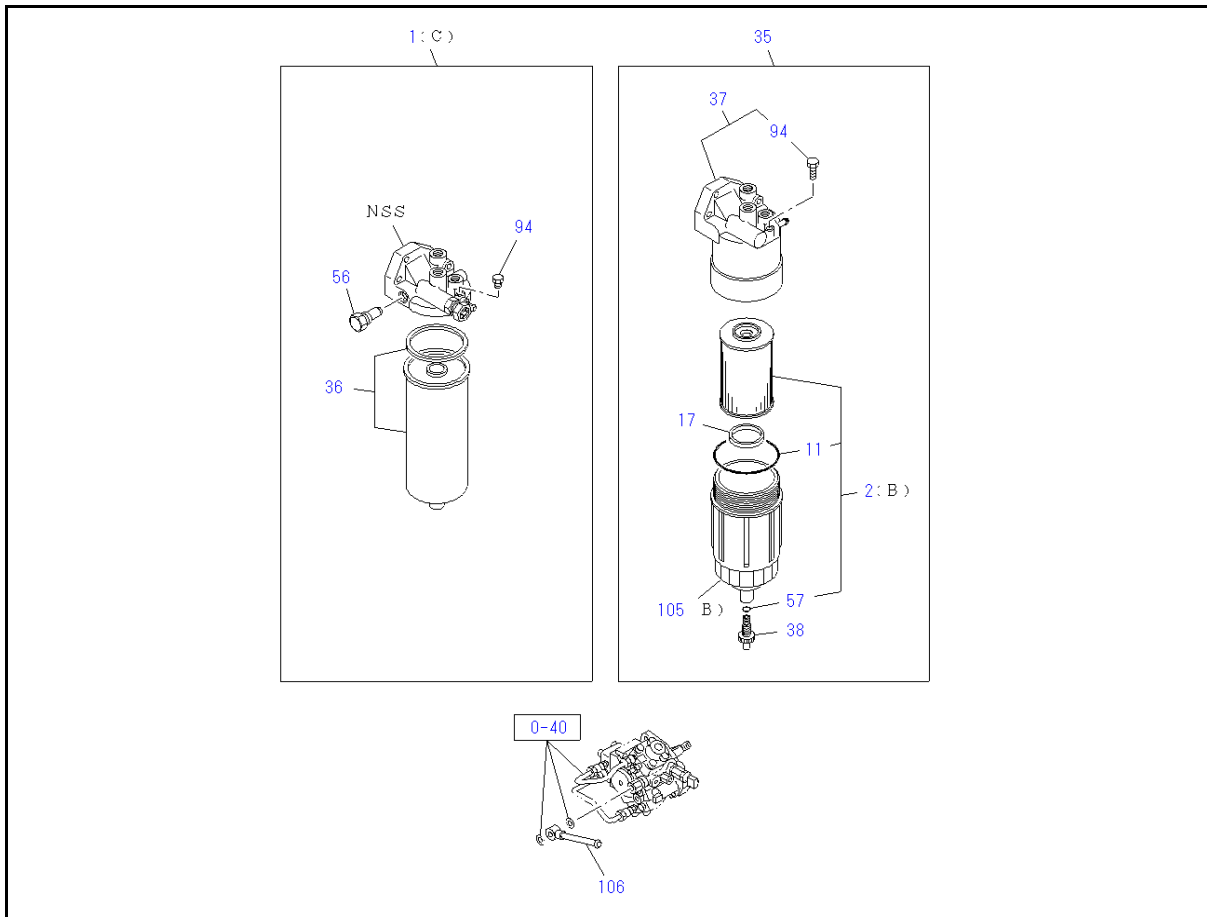


0-40 FUEL INJECTION SYSTEM

KEY No.	Part no.	qty	Part description	Engine serial no.
1 (B)	8-97605-946-8	1	PUMP ASM; INJ	
2	8-94399-256-0	3	BOLT; INJ PUMP M8X28	
6	8-97601-154-1	1	BRACKET; INJ PUMP TO C/BL	
16	8-98271-207-0	1	PIPE; INJ NO.1	
17	8-98271-208-0	1	PIPE; INJ NO.2	
18	8-98271-209-0	1	PIPE; INJ NO.3	
19	8-98271-210-0	1	PIPE; INJ NO.4	
20	8-98271-211-0	1	PIPE; INJ NO.5	
21	8-98271-212-0	1	PIPE; INJ NO.6	
31	8-98238-463-1	6	NOZZLE ASM; INJ	
61	8-98008-895-0	6	BOLT; CLAMP NOZZLE HOLDER M8X54	
66 (A)	8-94173-412-0	6	GASKET; INJ NOZZLE ID=23.3	
66 (B)	8-98079-248-0	6	GASKET; INJ NOZZLE ID=9.2 T=8.1	
68 (A)	8-98000-010-2	1	CLIP; INJ PIPE ID=7 & 9 L=25	
68 (B)	8-98000-011-2	1	CLIP; INJ PIPE ID=7 & 9 L=25	
68 (C)	8-98148-996-2	14	CLIP; INJ PIPE ID=11 & 11 L=19	
69 (A)	1-13319-065-0	1	BRACKET; INJ PIPE CLIP	
69 (B)	8-98038-940-0	1	BRACKET; INJ PIPE CLIP	
69 (C)	8-98049-015-0	1	BRACKET; INJ PIPE CLIP	
71 (A)	0-28050-870-0	1	BOLT; BRKT M8X70 FLANGE	
71 (B)	0-28151-200-0	1	BOLT; BRKT M12X100 FLANGE	
71 (C)	0-28050-816-0	2	BOLT; BRKT M8X16 FLANGE	
94	8-98028-999-1	6	BRACKET; INJ NOZZLE	
99	0-28050-635-0	3	BOLT; CLIP,INJ,PIPE M6X35 FLANGE	
110	0-91180-106-0	4	NUT; CLIP M6 FLANGE	
118	0-28650-635-0	1	BOLT; CLIP,INJ PIPE M6X35 FLANGE	
121 (A)	8-97383-427-0	4	PIPE; FUEL,FEED PUMP,SUCTION	
133	8-98203-705-1	1	PIPE; INJ NOZZLE LEAK OFF	
134 (A)	1-09675-037-1	6	BOLT; JOINT,LEAK OFF PIPE M8X18 EYE-BOLT	
134 (B)	8-94396-711-0	2	BOLT; JOINT,LEAK OFF PIPE M10X21 EYE-BOLT	
135 (A)	8-98065-992-0	6	GASKET; JOINT BOLT,LEAK OFF PIPE ID=8.3 OD=15	
135 (B)	8-98079-755-0	1	GASKET; JOINT BOLT,LEAK OFF PIPE ID=10.2 OD=17	
135 (C)	8-98231-393-1	1	GASKET; JOINT BOLT,LEAK OFF PIPE ID=10.6	
154	0-95690-111-0	6	GASKET; CONNECTOR ID=11.0	
169 (A)	0-91180-110-0	2	NUT; BRKT M10 FLANGE	
169 (B)	0-91180-112-0	1	NUT; BRKT M12 FLANGE	
176 (A)	1-09675-095-1	4	BOLT; EYE,FEED PUMP M16X30 EYE-BOLT	

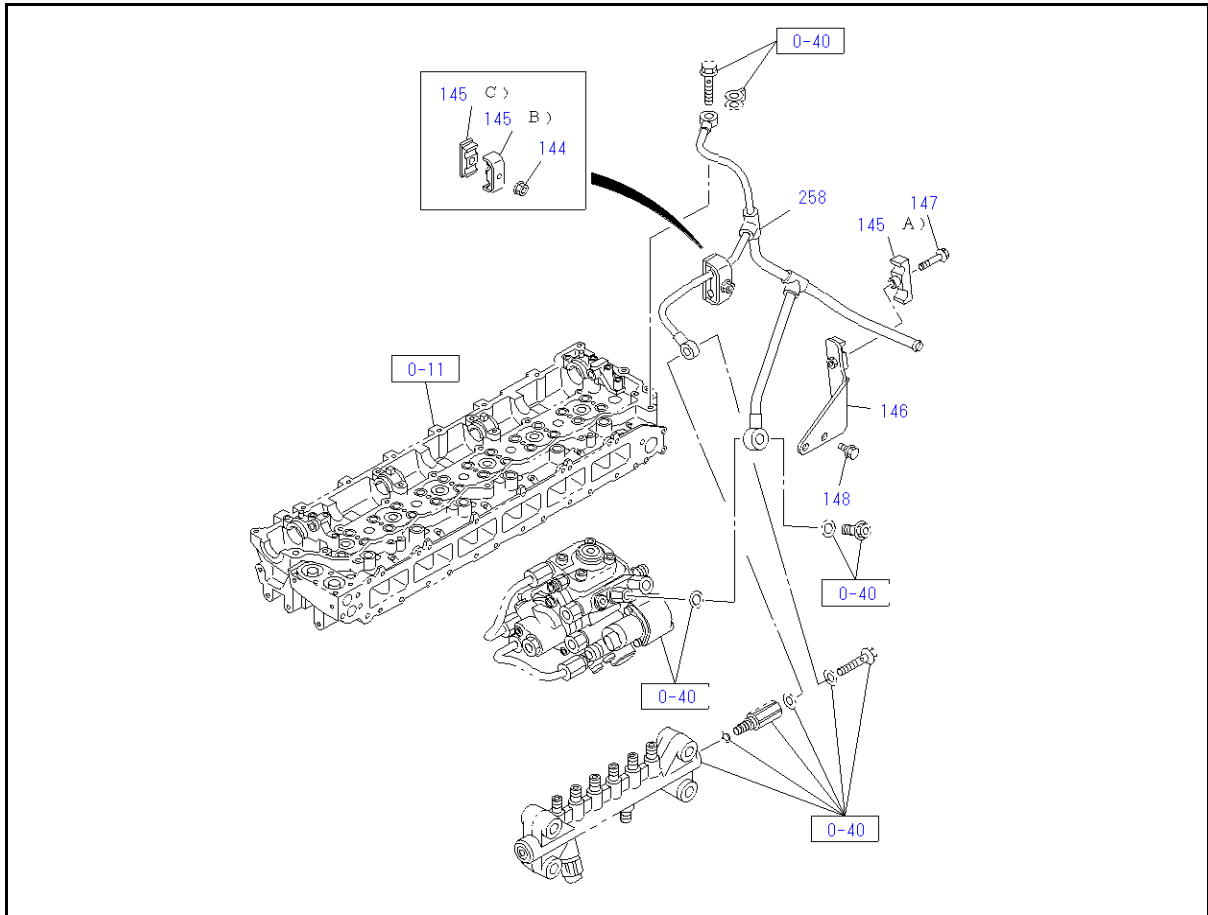
KEY No.	Part no.	qty	Part description	Engine serial no.
176 (B)	8-98011-269-0	1	BOLT; EYE,FEED PUMP M10X38 EYE-BOLT	
177 (A)	1-09630-086-0	8	GASKET; EYE BOLT,INL,FUEL FEED PUMP	
199 (A)	1-15619-507-0	2	GASKET; EYE BOLT ID=14.2	
199 (B)	8-97602-218-0	4	GASKET; EYE BOLT	
200 (B)	8-98008-791-0	1	PIPE; FUEL FEED	
205	8-98023-581-0	1	SENSOR; FUEL TEMP	
210	8-98145-414-0	1	PIPE; INJ,C/R	
211	8-97609-980-2	1	RAIL ASM; COMMON	
212	8-97372-243-0	2	BOLT; RAIL ASM M10X50 FLANGE	
216 (A)	5-15759-003-0	1	BOLT; EYE M14X26 EYE-BOLT	
216 (B)	8-97351-388-0	1	BOLT; EYE M10X23 EYE-BOLT	
216 (C)	8-98035-828-0 <8-98043-033-0>	1	BOLT; EYE M10X23 EYE-BOLT	
265	8-98074-955-0	1	VALVE; FEED PUMP	
271 (A)	1-09623-464-0	1	GASKET; INJ PUMP ID=139.6	
271 (B)	8-98031-844-0	1	GASKET; INJ PUMP ID=52	
288 (A)	1-09630-083-0	3	GASKET ID=10.2 OD=15.2	
288 (B)	8-98251-345-0	3	GASKET ID=14.2 OD=19.2	
288 (C)	1-15641-046-0	1	GASKET ID=11 OD=16.3	
289	8-98032-549-0	1	LIMITER; FUEL PRESS	
290	8-98119-790-0	1	SENSOR; PRESS	
382	8-98161-995-0	1	KEY; DRIVE SHAFT	
392	0-91180-110-0	2	NUT; RAIL ASM M10 FLANGE	
424	8-98145-449-1	1	OVERHAUL KIT; SUPPLY PUMP	

0-41 FUEL FILTER AND BRACKET



KEY No.	Part no.	qty	Part description	Engine serial no.
1 (C)	8-98312-915-1	1	FILTER ASM; FUEL	
2 (B)	8-98074-288-2	1	ELEMENT KIT; FUEL FILTER	
11	8-98008-842-0	1	GASKET; CASE TO BODY,FUEL FILTER	
17	8-98008-849-0	1	FLOAT; FUEL FILTER	
35	8-98075-855-5	1	FILTER ASM; SUB FUEL	
36	8-98312-918-0	1	ELEMENT; FUEL FILTER	
37	8-98076-261-2	1	COVER; FUEL FILTER	
38	8-98074-292-0	1	PLUG; DRAIN	
56	8-98008-847-1	1	PLUG; FUEL FILTER	
57	8-97543-528-0	1	GASKET; PLUG	
94	8-98367-380-0	1	VALVE; FUEL FILTER	
105 (B)	8-98074-290-1	1	CASE; FUEL FILTER	
106	8-98014-903-0	1	PIPE; FUEL	

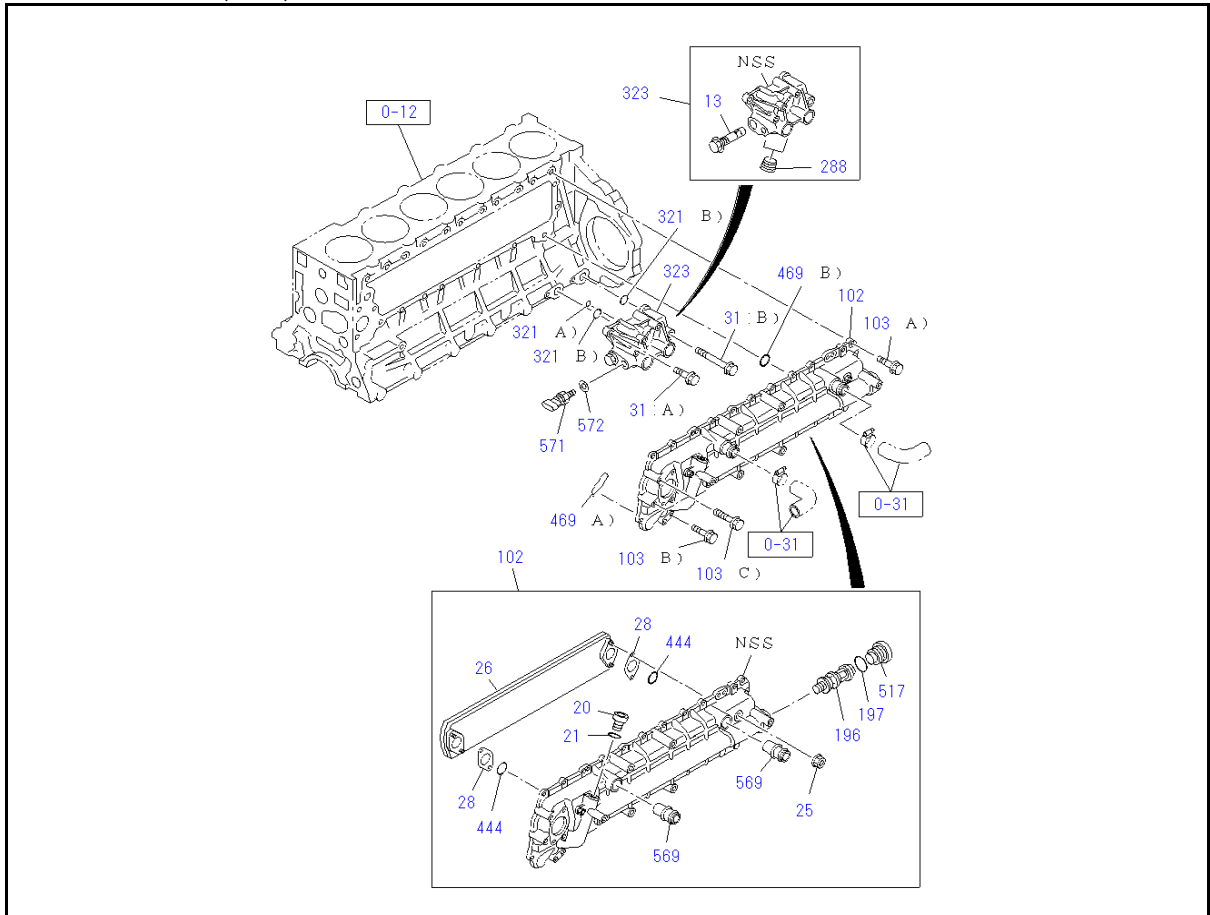
0-42 FUEL PUMP AND PIPE



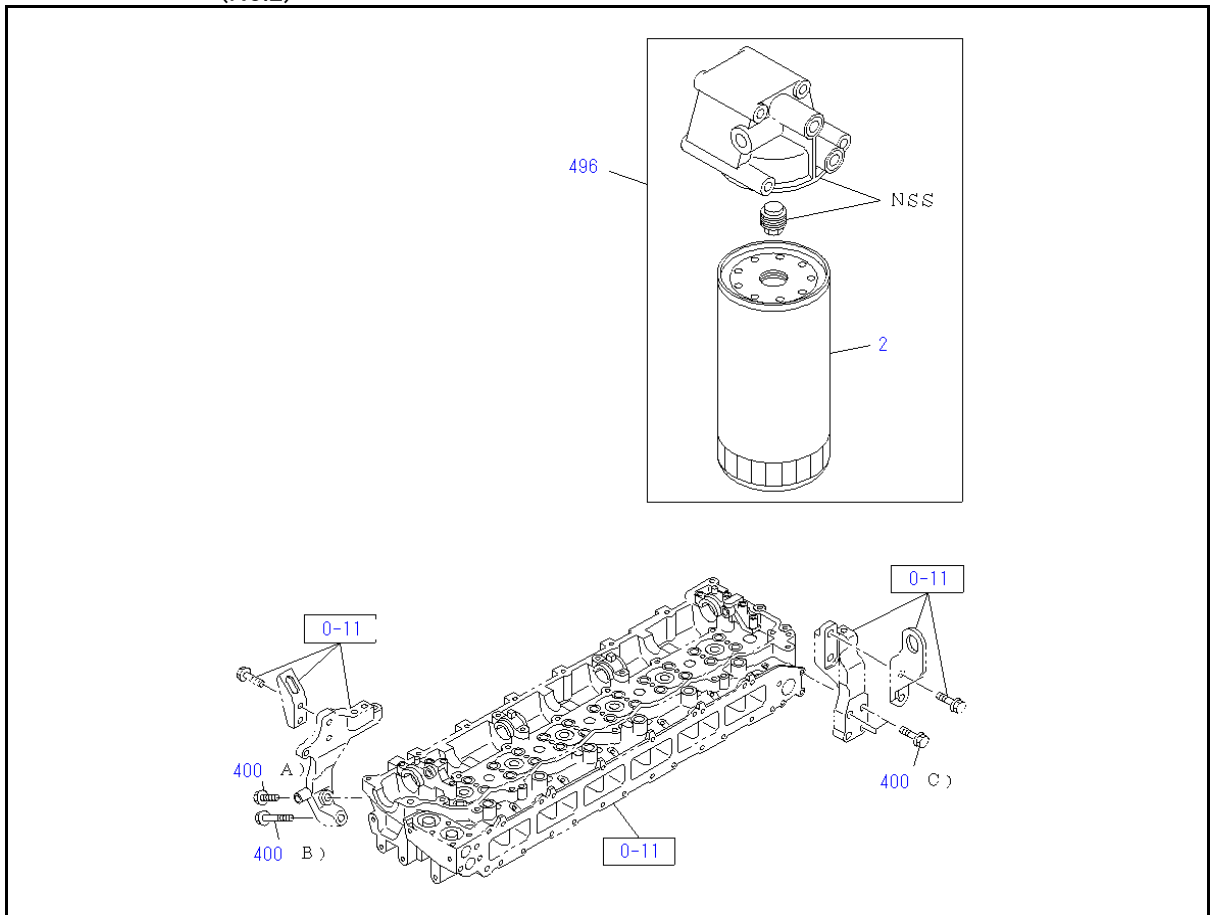
KEY No.	Part no.	qty	Part description	Engine serial no.
144	0-91180-106-0	1	NUT; CLIP M6 FLANGE	
145 (A)	8-97216-188-6	1	CLIP; FUEL PIPE ID=12 & 9 L=31.5	
145 (B)	8-98000-010-2	1	CLIP; FUEL PIPE ID=7 & 9 L=25	
145 (C)	8-98000-011-2	1	CLIP; FUEL PIPE ID=7 & 9 L=25	
146	8-97601-008-0	1	BRACKET; FUEL END	
147	0-28650-635-0	1	BOLT; CLIP,FUEL PIPE M6X35 FLANGE	
148	0-28050-812-0	1	BOLT; BRKT M8X12 FLANGE	
258	8-98237-415-0	1	PIPE ASM; FUEL,LEAK OFF	

0-50 OIL COOLER AND OIL FILTER

(No.1)



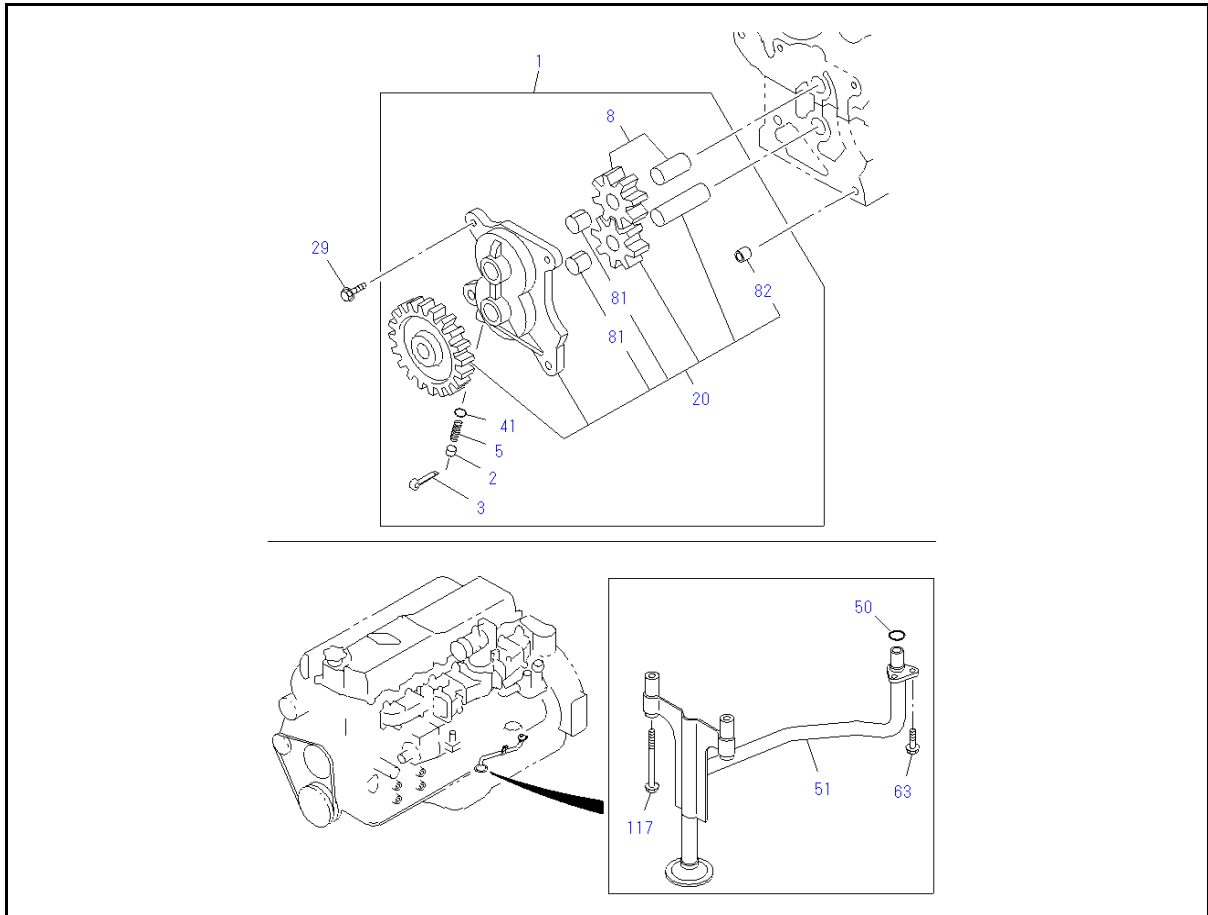
(No.2)



0-50 OIL COOLER AND OIL FILTER

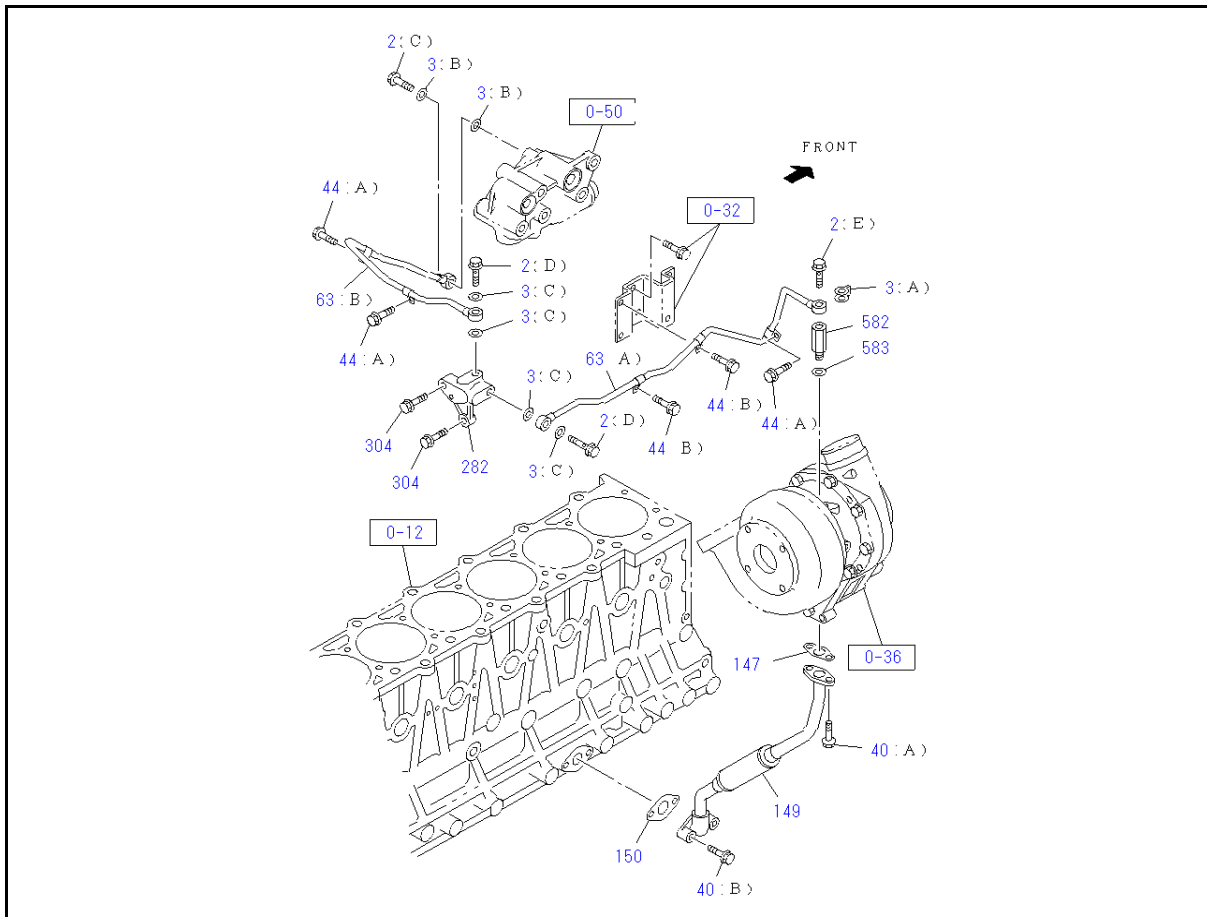
KEY No.	Part no.	qty	Part description	Engine serial no.
2	8-98375-860-0	1	ELEMENT; OIL FILTER	
13	1-13160-035-0	1	VALVE; RELIEF	
20	8-94393-604-0	1	PLUG; COOLER BODY	
21	8-98085-724-0	1	GASKET; PLUG	
25	1-13219-324-0	4	NUT; CORE TO BODY M10 FLANGE	
26	8-98231-538-0	1	CORE ASM; OIL COOLER	
28	8-94394-930-0	2	GASKET; CORE TO BODY	
31 (A)	0-28151-025-0	1	BOLT; OIL PIPE M10X25 FLANGE	
31 (B)	0-28151-090-0	3	BOLT; OIL PIPE M10X90 FLANGE	
102	8-98231-537-0	1	COOLER ASM; OIL	
103 (A)	8-97365-376-0 <0-28080-822-0>	24	BOLT; OIL COOLER M8X22 FLANGE	
103 (B)	0-28650-835-0	1	BOLT; OIL COOLER M8X35 FLANGE	
103 (C)	1-09044-071-1	3	BOLT; OIL COOLER M8X55 FLANGE	
196	8-97600-936-0	1	THERMOSTAT; OIL COOLER 90 CELSIUS	
197	8-94391-728-0	1	GASKET; THERMOSTAT	
288	1-09605-025-0	2	PLUG; OIL DRAIN PT3/4	
321 (A)	8-94399-339-0	1	GASKET; OIL FILTER TO C/BL ID=9.8	
321 (B)	8-94399-399-0	2	GASKET; OIL FILTER TO C/BL ID=22.1	
323	8-97363-840-3	1	COVER; OIL PORT	
400 (A)	0-28151-050-0	1	BOLT; BRKT M10X50 FLANGE	
400 (B)	0-28151-080-0	1	BOLT; BRKT M10X80 FLANGE	
400 (C)	0-28151-250-0	3	BOLT; BRKT M12X50 FLANGE	
444	1-09623-299-0	2	GASKET; ELEMENT TO BODY ID=38.7	
469 (A)	8-94399-002-0	1	GASKET; OIL COOLER TO C/BL	
469 (B)	8-98045-449-0	1	GASKET; OIL COOLER TO C/BL ID=20	
496	8-98375-866-1	1	FILTER ASM; OIL	
517	8-94391-731-0	1	PLUG; THERMOSTAT,OIL COOLER	
569	8-98180-503-0	2	PIPE; WATER,EGR	
571	8-98027-456-0	1	SENSOR; OIL PRESSURE	
572	8-98251-345-0	1	GASKET; OIL PRESSURE ID=14.2 OD=19.2	

0-51 OIL PUMP AND OIL STRAINER



KEY No.	Part no.	qty	Part description	Engine serial no.
1	8-97641-835-0	1	PUMP ASM; OIL	
2	5-13165-004-0	1	SEAT; SPR	
3	0-81124-030-0 <9-08104-030-0>	1	PIN; SPLIT L=30	
5	5-09580-098-0	1	SPRING; COIL	
8	8-97641-838-0	1	GEAR; DRIVEN,OIL PUMP	
20	8-97641-839-0	1	GEAR; DRIVE,OIL PUMP	
29	0-28050-825-0	4	BOLT; OIL PUMP M8X25 FLANGE	
41	5-09843-003-0	1	BALL; OIL RELIEF VLV	
50	8-94399-398-0	1	GASKET; OIL PIPE,STRAINER TO PUMP ID=24.5	
51	8-98209-097-0	1	STRAINER & PIPE ASM; OIL	
63	0-28080-814-0	2	BOLT; OIL PIPE,STRAINER TO PUMP M8X14 FLANGE	
81	8-94393-596-1	2	BUSHING; GEAR SHAFT,OIL PUMP	
82	1-13119-003-0 <9-13119-022-0>	2	DOWEL; OIL PUMP	
117	0-28156-015-0	2	BOLT; STAY TO CRANKCASE M10X150 FLANGE	

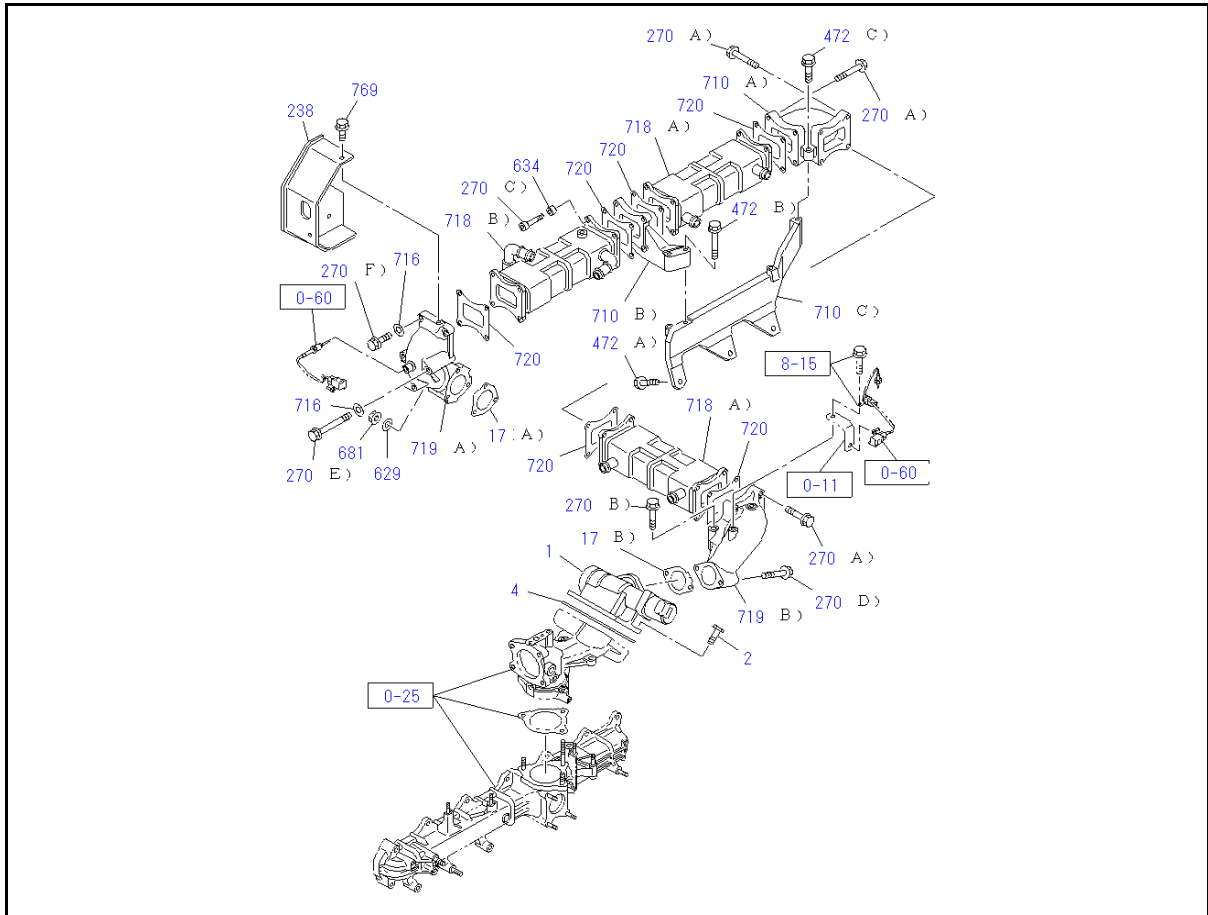
0-52 OIL AND VACUUM PIPING; ENGINE



KEY No.	Part no.	qty	Part description	Engine serial no.
2 (C)	8-98037-823-0	1	BOLT; EYE,OIL PIPE M10X28 EYE-BOLT	
2 (D)	8-98037-826-0	2	BOLT; EYE,OIL PIPE M12X27 EYE-BOLT	
2 (E)	8-98214-446-0	1	BOLT; EYE,OIL PIPE M12X28 EYE-BOLT	
3 (A)	8-97331-137-1	1	GASKET; EYE BOLT,OIL PIPE ID=12.6 OD=17.6	
3 (B)	9-09571-410-0	2	GASKET; EYE BOLT,OIL PIPE ID=10.2 OD=16	
3 (C)	9-09571-412-0	4	GASKET; EYE BOLT,OIL PIPE ID=12.2 OD=18	
40 (A)	0-28650-830-0	2	BOLT; OIL PIPE M8X30 FLANGE	
40 (B)	0-28650-840-0	2	BOLT; OIL PIPE M8X40 FLANGE	
44 (A)	0-28050-812-0	3	BOLT; CLIP,OIL PIPE M8X12 FLANGE	
44 (B)	0-28050-816-0	2	BOLT; CLIP,OIL PIPE M8X16 FLANGE	
63 (A)	8-98115-498-1	1	PIPE; OIL,TURBOCHARGER FEED	
63 (B)	8-98234-896-0	1	PIPE; OIL,TURBOCHARGER FEED	
147	8-94390-641-1	1	GASKET; OIL PIPE TO	
149	8-98106-490-1	1	PIPE; OIL RETURN,TURBOCHARGER	
150	8-94394-671-0	1	GASKET; OIL PIPE TO C/BL ID=30	
282	8-98114-528-0	1	BRACKET; OIL PIPE	
304	0-28050-835-0	2	BOLT; BRKT,OIL PIPE M8X35 FLANGE	
582	8-94472-583-0	1	ADAPTER; OIL PIPE	

KEY No.	Part no.	qty	Part description	Engine serial no.
583	8-94472-584-1	1	GASKET; ADAPTER T=2.5	

0-57 EMISSION PIPING

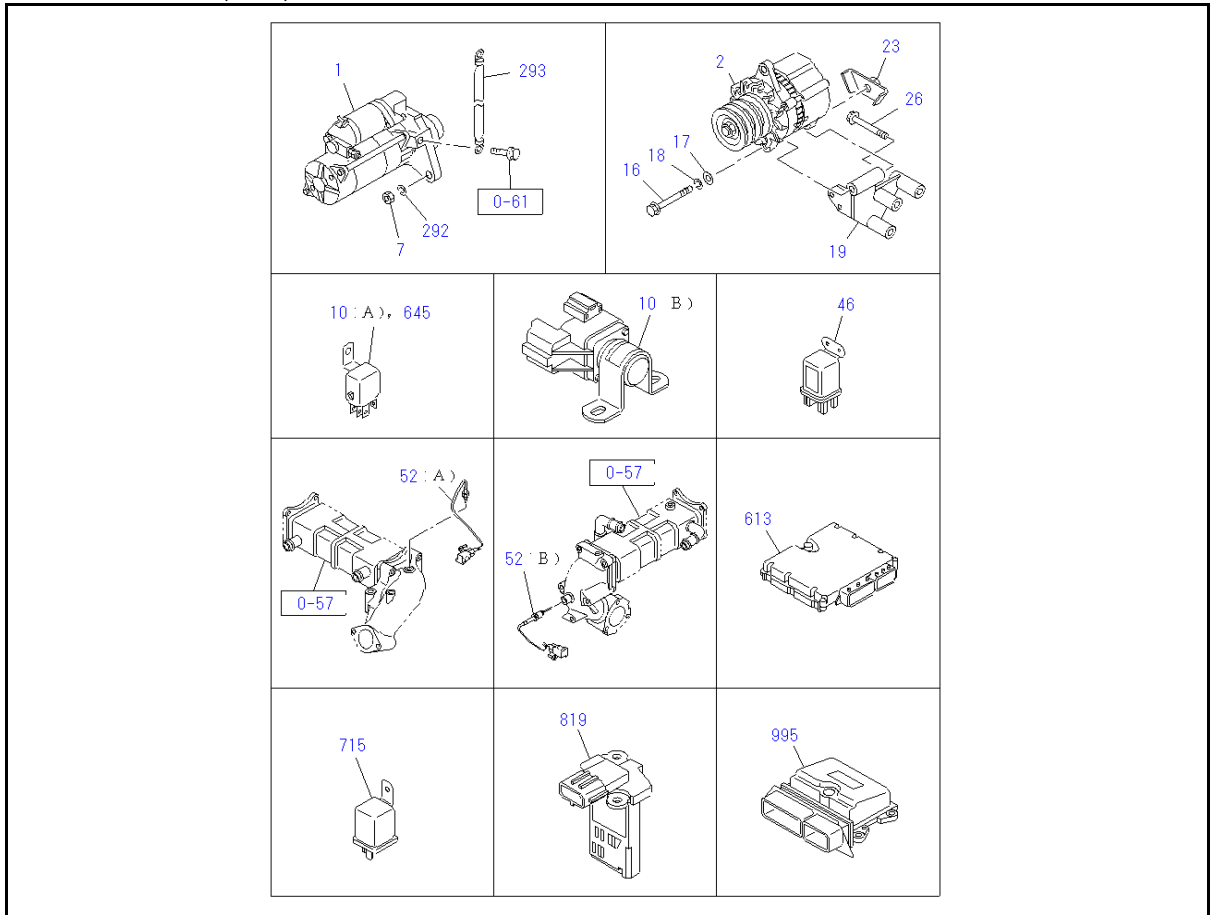


KEY No.	Part no.	qty	Part description	Engine serial no.
1	8-98239-130-2	1	VALVE; EGR	
2	0-28751-030-0	4	BOLT; EGR VLV M10X30 FLANGE	
4	8-97608-423-0	1	GASKET; EGR VLV	
17 (A)	1-16157-021-0	1	GASKET; EGR PIPE ID=55	
17 (B)	8-97603-282-0	1	GASKET; EGR PIPE ID=47	
238	8-98237-414-0	1	PROTECTOR; HEAT,EGR	
270 (A)	0-28050-845-0	12	BOLT M8X45 FLANGE	
270 (B)	0-28151-070-0	1	BOLT M10X70 FLANGE	
270 (C)	0-58330-860-0	4	BOLT M8X60 HEX SOCKET	
270 (D)	8-97372-292-0	2	BOLT M10X65 FLANGE	
270 (E)	8-98173-382-0	2	BOLT M8X100 FLANGE	
270 (F)	8-98053-224-0	2	BOLT M8X35 FLANGE	
472 (A)	0-28060-835-0	3	BOLT; BRKT M8X35 FLANGE	
472 (B)	0-28060-870-0	2	BOLT; BRKT M8X70 FLANGE	
472 (C)	0-28151-050-0	1	BOLT; BRKT M10X50 FLANGE	
629	1-09556-015-0	3	WASHER; LK,PIPE T=2.2	
634	8-98155-777-0	4	WASHER; PL,EGR PIPE	

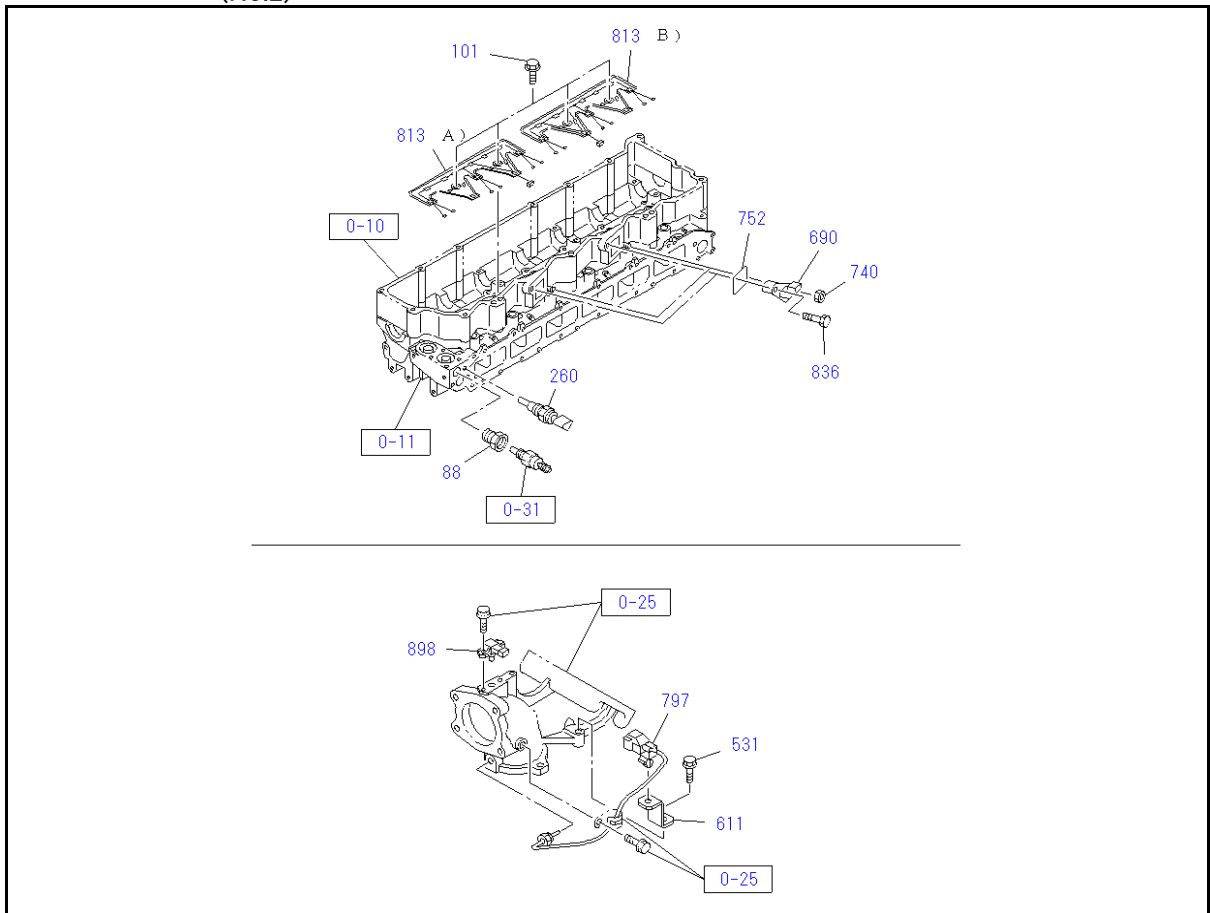
KEY No.	Part no.	qty	Part description	Engine serial no.
681	8-97309-942-0	3	NUT; EGR PIPE M10 FLANGE	
710 (A)	8-98121-711-0	1	BRACKET; EGR COOLER	
710 (B)	8-98121-712-0	1	BRACKET; EGR COOLER	
710 (C)	8-98205-393-0	1	BRACKET; EGR COOLER	
716	5-09500-012-0	4	WASHER; EGR PIPE ID=8.4 T=1.4	
718 (A)	8-98107-857-4	2	COOLER; EGR	
718 (B)	8-98122-226-2	1	COOLER; EGR	
719 (A)	8-98236-667-0	1	PIPE; EGR	
719 (B)	8-98236-683-1	1	PIPE; EGR	
720	8-98200-753-0	6	GASKET; COOLER	
769	8-97378-075-0	4	BOLT; HEAT PROTECTOR M8X14 FLANGE	

0-60 ENGINE ELECTRICAL CONTROL PARTS

(No.1)



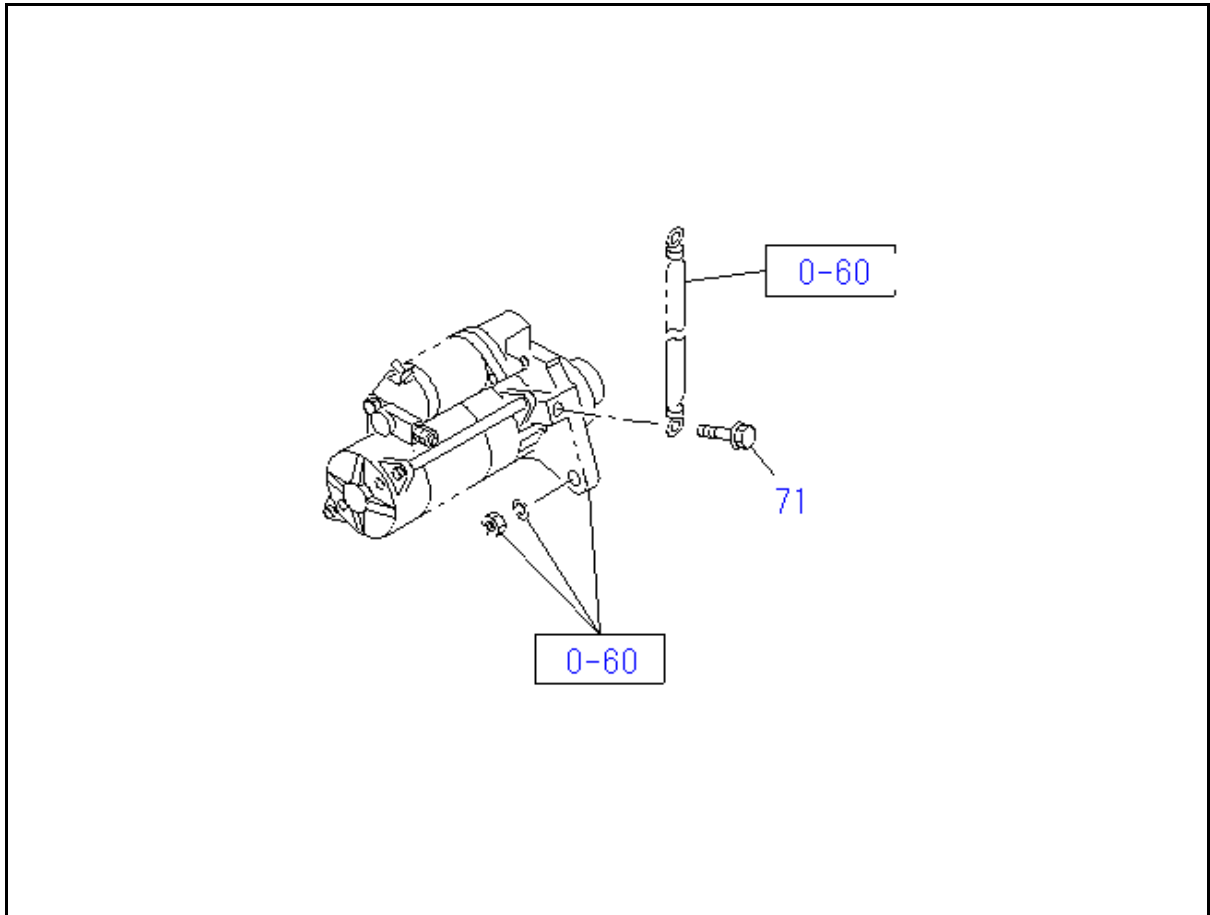
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0-60 ENGINE ELECTRICAL CONTROL PARTS

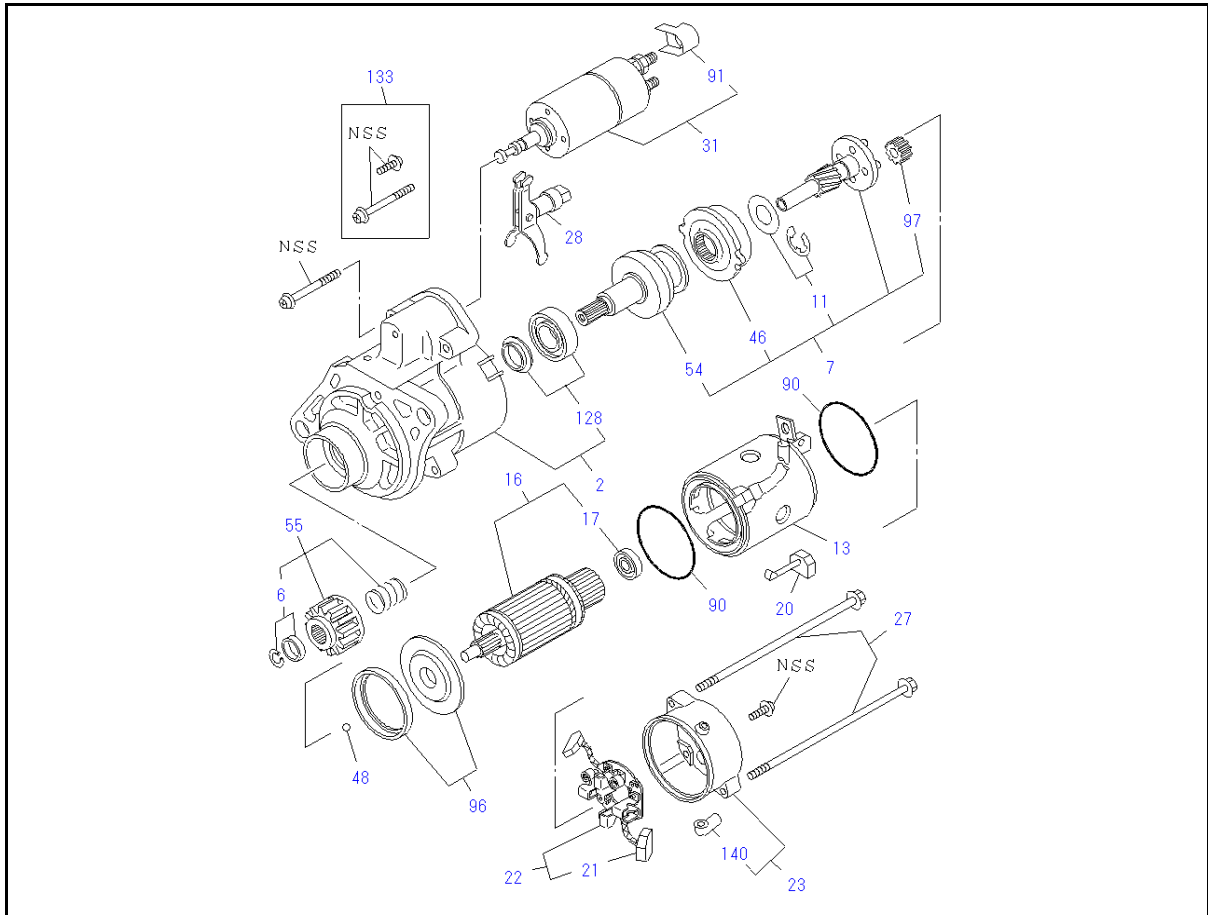
KEY No.	Part no.	qty	Part description	Engine serial no.
1	8-98141-206-3	1	STARTER ASM 24V 5.0KW MITSUBISHI	
2	8-98341-397-0	1	GENERATOR ASM 24V 50A MITSUBISHI	
7	0-91110-514-0	2	NUT; STARTER M14	
10 (A)	8-98013-790-0	2	RELAY; STARTER 24V NIKKO	
10 (B)	8-98005-631-1	1	RELAY; STARTER 24V NIKKO	
16	1-09000-133-1	1	BOLT; GEN M14X135	
17	0-91610-514-0	1	WASHER; PL,GEN ID=15	
18	0-91510-814-0	1	WASHER; LK,GEN ID=14.2	
19	1-19711-136-1	1	BRACKET; GEN	
23	1-19711-029-0	1	NUT; GEN M14 W/BRKT	
26	0-28151-080-0	3	BOLT; GEN BRKT M10X80 FLANGE	
46	8-94460-706-1	1	RELAY; GLOW PLUG	
52 (A)	8-98028-398-0	1	SENSOR; EGR GAS	
52 (B)	8-98030-955-0	1	SENSOR; EGR GAS	
88	8-94396-396-1	1	ADAPTER; SW	
101	0-28650-840-0	4	BOLT; HARNESS M8X40 FLANGE	
260	8-98023-717-0	1	SENSOR; WATER TEMP	
292	0-91510-814-0	2	WASHER; LK,STARTER ID=14.2	
293	1-82650-239-0	1	CABLE; STARTER EARTH L=550	
531	0-28050-816-0	1	BOLT; SENSOR BRKT M8X16 FLANGE	
611	1-47476-658-0	1	BRACKET; SENSOR	
613	8-97524-713-0	1	CONTROL UNIT; ENG	
645	8-98013-790-0	1	RELAY; ENG CONT	
690	8-94390-858-1	2	CONNECTOR	
715	5-82550-030-0	1	RELAY; FUEL PUMP BLACK	
740	0-91180-108-0	2	NUT M8 FLANGE	
752	8-94391-310-0	2	GASKET	
797	8-97381-182-0	1	SENSOR; MAT	
813 (A)	8-98177-447-0	1	HARNESS; INJECTOR	
813 (B)	8-98177-448-0	1	HARNESS; INJECTOR	
819	8-97601-967-0	1	SENSOR; MASS AIR FLOW (MAF)	
836	0-28050-812-0	2	BOLT; CONNECTOR M8X12 FLANGE	
898	8-98121-697-0 <8-98121-697-1>	1	SENSOR; BOOST	
995	8-97524-714-0	1	CONTROL UNIT; DEF DCM	

0-61 BATTERY AND ENGINE ELECTRICAL PARTS



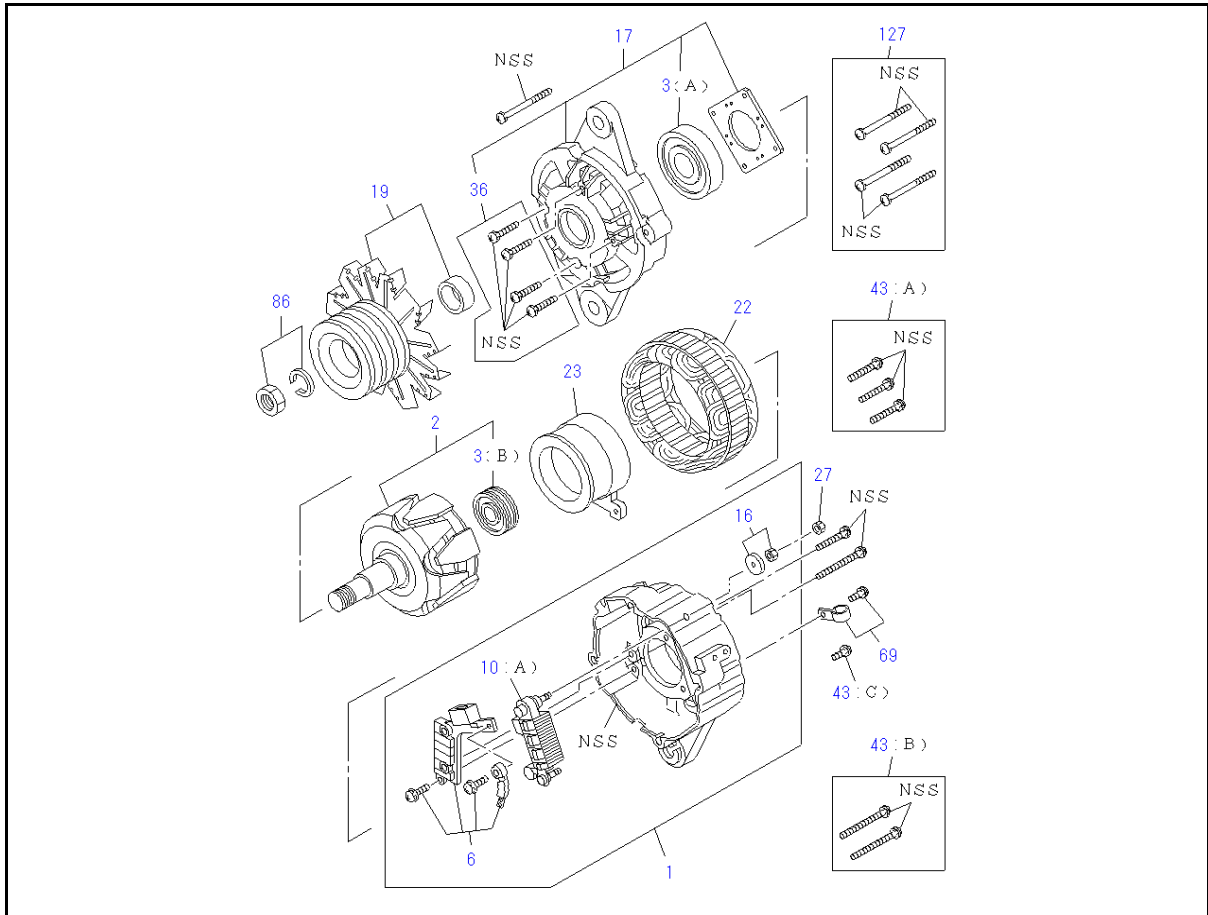
KEY No.	Part no.	qty	Part description	Engine serial no.
71	0-28051-020-0	1	BOLT; BATTERY CABLE M10X20 FLANGE	

0-65 STARTER



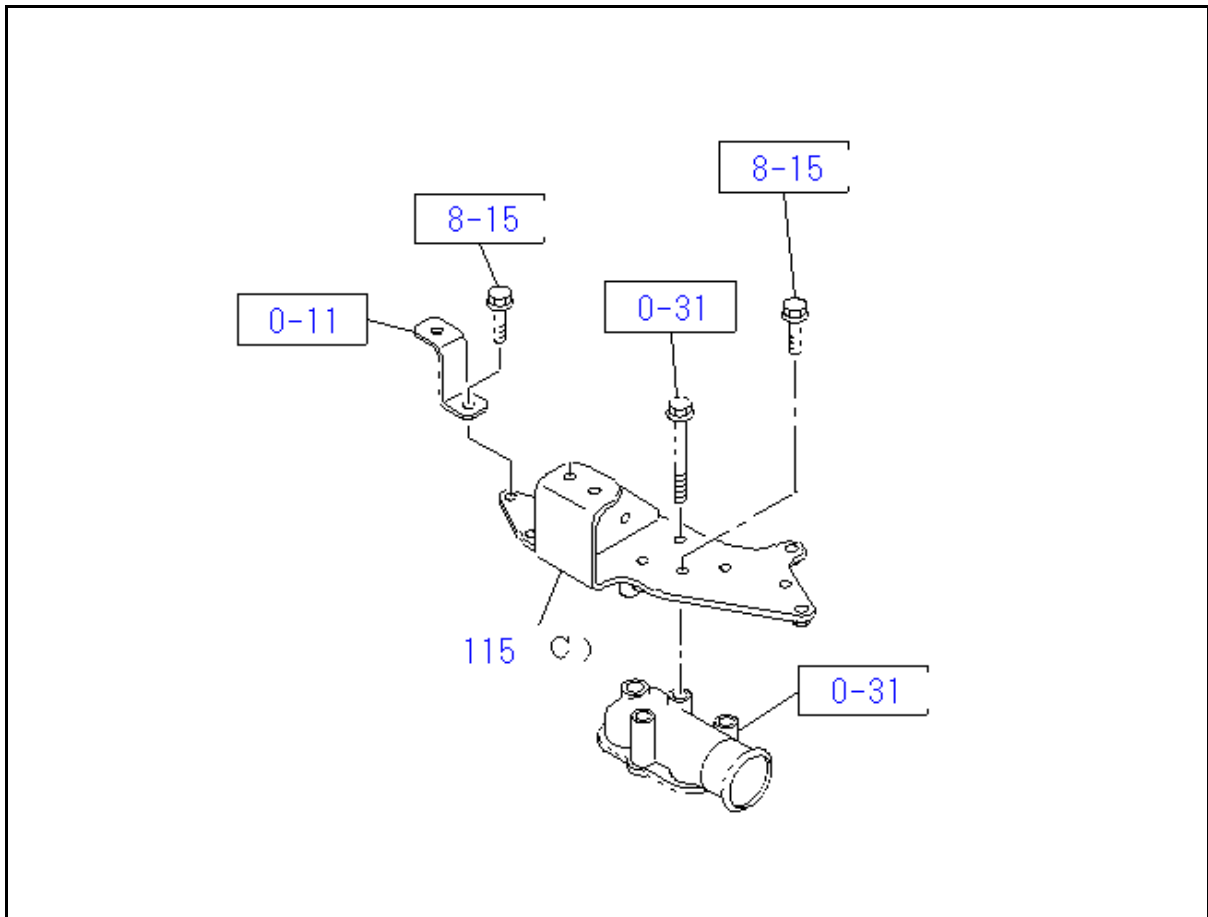
KEY No.	Part no.	qty	Part description	Engine serial no.
2	8-98152-868-0	1	CASE; PINION,STARTER	
6	8-94475-688-0	1	STOPPER; PINION STARTER	
7	1-81129-759-0	1	CLUTCH ASM; PINION,STARTER	
7	8-98245-549-0	1	CLUTCH ASM; PINION,STARTER	
11	8-97116-484-0	1	WASHER; GEAR SHAFT STARTER	
13	8-98152-277-0	1	YOKE; STARTER	
16	1-81121-075-0	1	ARMATURE; STARTER	
17	1-81129-837-0	1	BEARING; ARMATURE,STARTER	
20	1-81116-066-0	2	BRUSH; (+),STARTER	
21	1-81129-768-0	4	SPRING; BRUSH HOLDER STARTER	
22	1-81121-066-0	1	HOLDER; BRUSH STARTER	
22	8-98245-553-0	1	HOLDER; BRUSH STARTER	
23	1-81115-229-0	1	COVER; RR COVER STARTER	
27	1-81129-769-0	1	BOLT; THROUGH,STARTER	
28	1-81129-762-0	1	LEVER; SHIFT,STARTER	
31	8-98237-257-0	1	SWITCH; ENGAGE STARTER	
46	8-97178-153-0	1	GEAR; CLU STARTER	
46	8-97116-485-0	1	GEAR; CLU STARTER	
48	8-97116-515-0	1	BALL; PINION,STARTER	
54	1-81129-761-0	1	CLUTCH; PINION,STARTER	
55	8-98060-835-0	1	PINION; CLU,STARTER	
90	1-81129-767-0	2	GASKET; ARMATURE	
91	1-81129-764-0	1	COVER; STARTER	
96	8-97116-489-0	1	GASKET; FRT CASE	
97	8-97116-490-0	4	GEAR; STARTER	
128	1-81129-758-0	1	BEARING; STARTER	
133	1-81129-765-0	1	SCREW SET; STARTER	
140	8-97376-390-0	1	GROMMET; RR COVER	

0-66 GENERATOR



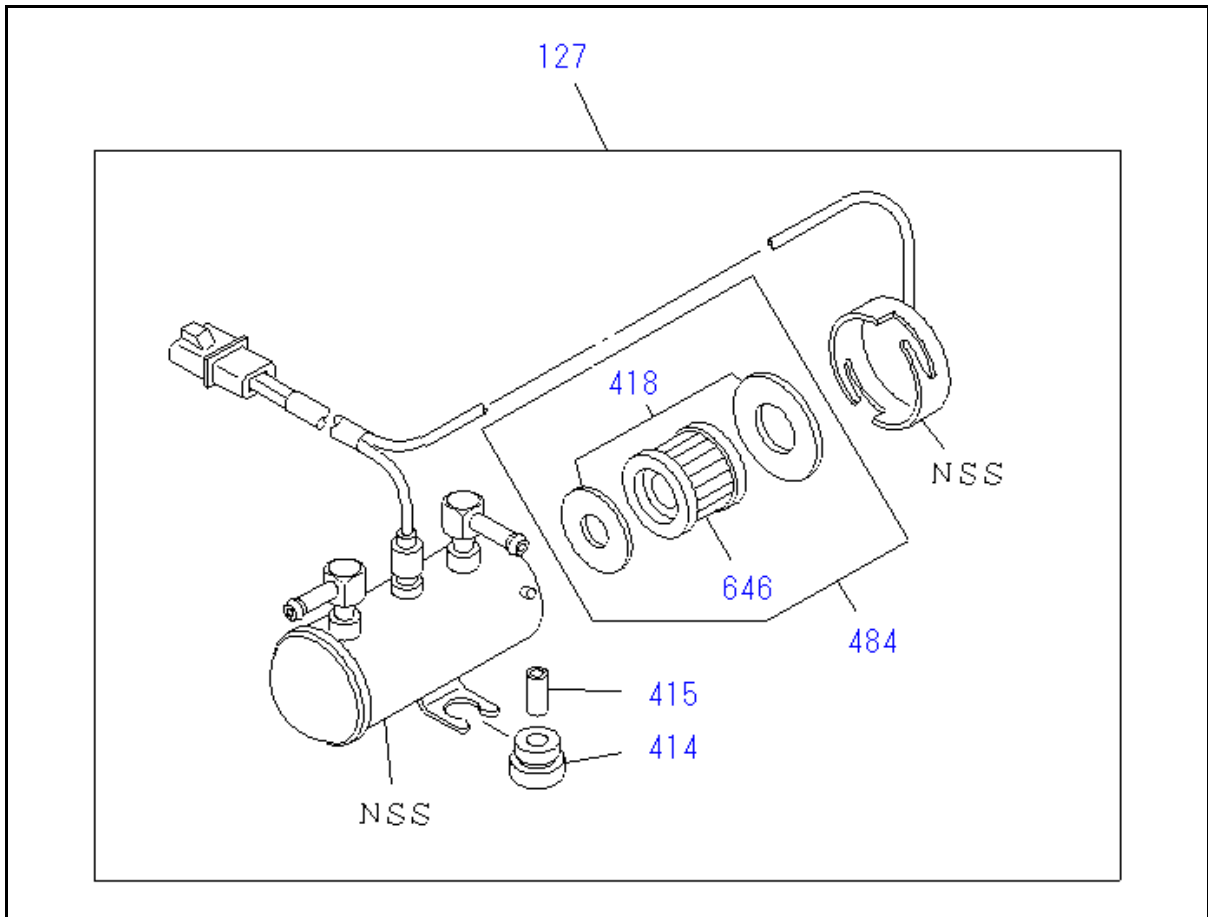
KEY No.	Part no.	qty	Part description	Engine serial no.
1	1-81214-363-2	1	COVER ASM; RR, GEN	
2	1-81221-102-0	1	ROTOR; GEN	
3 (A)	1-81229-769-0	1	BEARING; ROTOR, GEN	
3 (B)	1-81229-770-0	1	BEARING; ROTOR, GEN	
6	1-81260-017-0 <1-81260-017-1>	1	REGULATOR ASM; VOLTAGE, GEN	
10 (A)	1-81219-125-0	1	RECTIFIER; GEN	
16	1-81229-803-0	1	TERMINAL ASM; RECTIFIER, GEN	
17	1-81213-101-0	1	COVER ASM; FRT, GEN	
19	8-98238-727-0	1	PULLEY; GEN	
22	8-98348-868-0	1	STATOR; GEN	
23	8-98348-867-0	1	COIL; ROTOR GEN	
27	1-81229-772-0	1	NUT; RECTIFIER, GEN	
36	1-81229-768-0	1	SCREW; FRT COVER	
43 (A)	1-81229-773-0	1	SCREW; RR END COVER	
43 (B)	1-81229-774-0	1	SCREW; RR END COVER	
43 (C)	1-81229-832-0	1	SCREW; RR END COVER	
69	1-81229-836-0	1	CLIP; WIRE, GEN	
86	8-97178-134-0	1	NUT SET; PULLEY, GEN	
127	1-81229-767-0	1	BOLT SET; GEN	

1-10 RADIATOR



KEY No.	Part no.	qty	Part description	Engine serial no.
115 (C)	8-98237-412-0	1	BRACKET; FAN GUIDE	

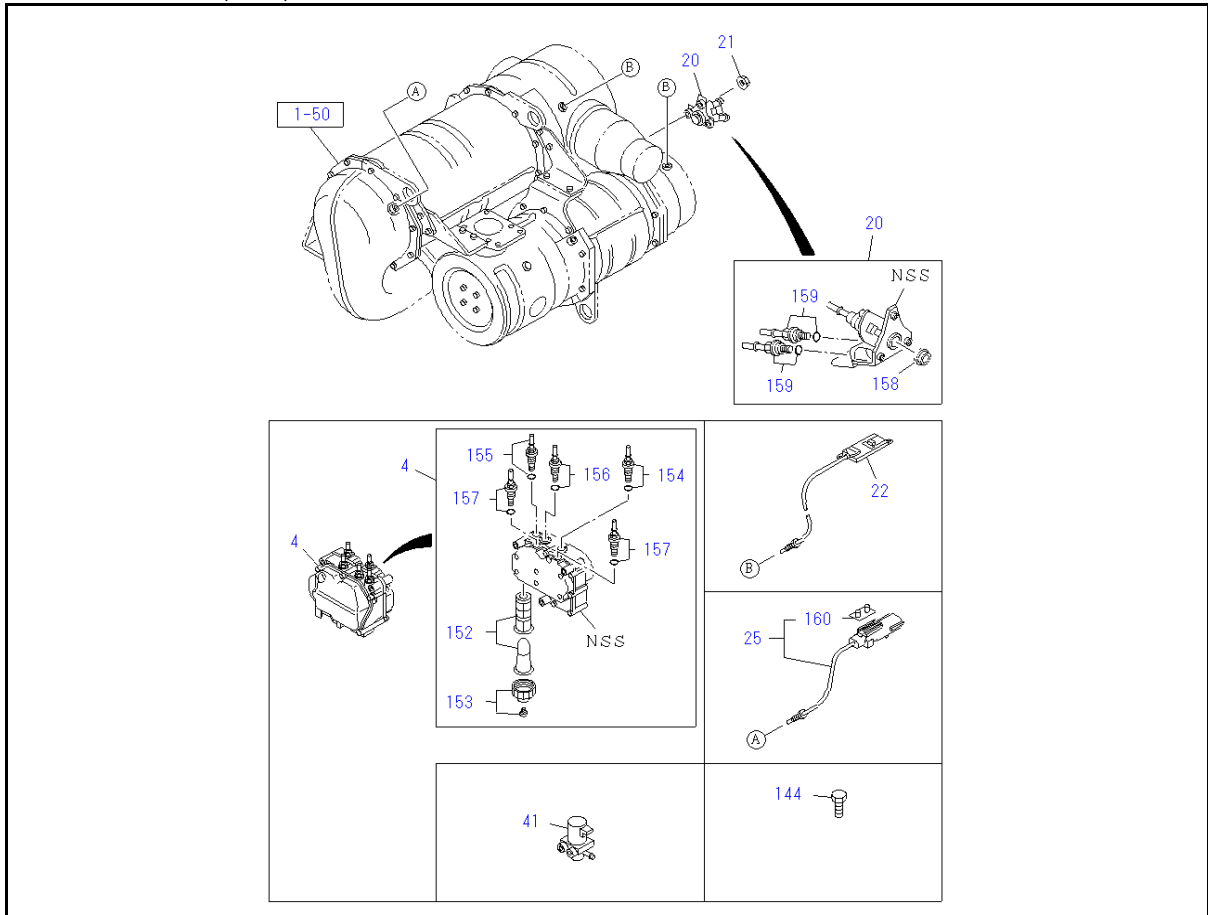
1-40 FUEL TANK



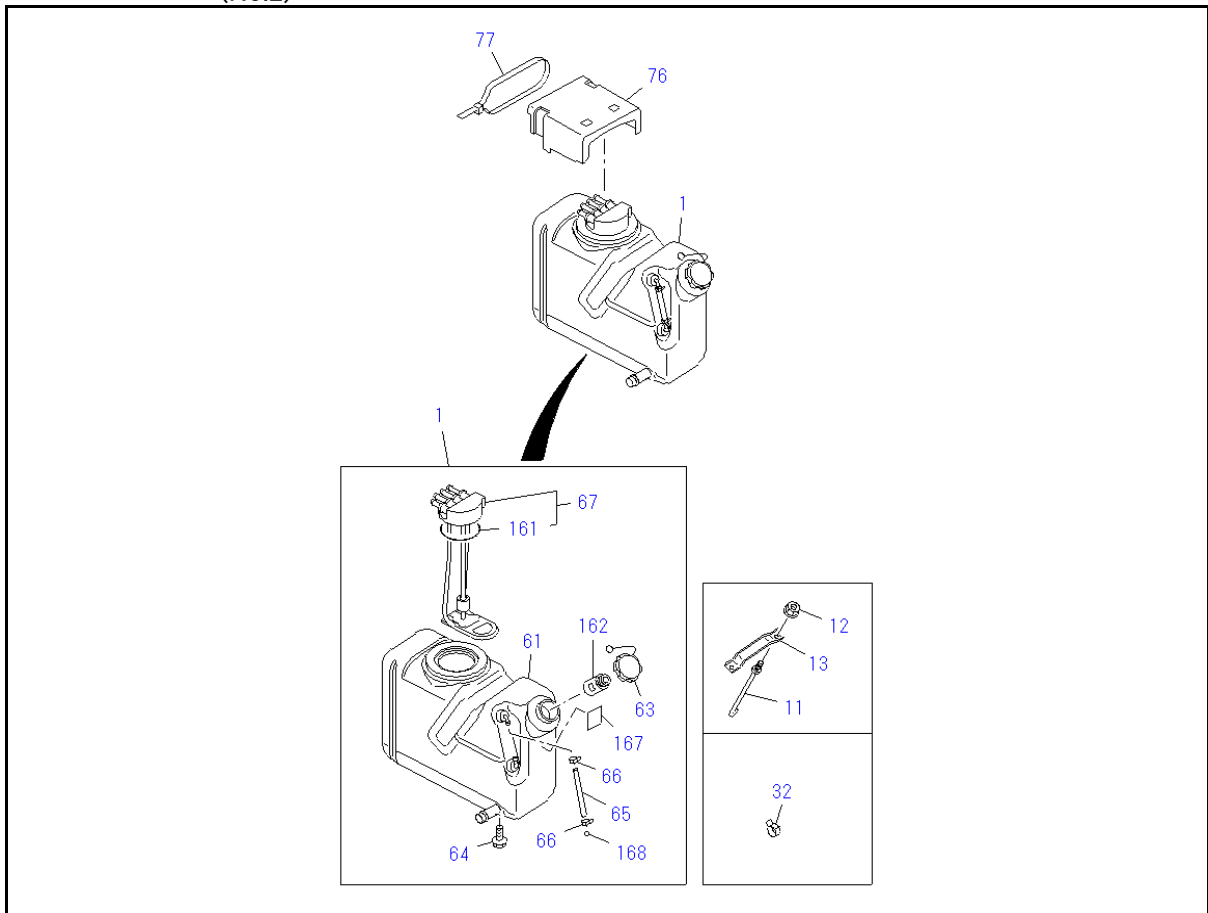
KEY No.	Part no.	qty	Part description	Engine serial no.
127	8-98009-397-2 <8-98009-397-1>	1	PUMP ASM; FUEL,ELEC	
414	8-97047-266-0	2	GROMMET; PUMP MTG,ELEC FUEL	
415	8-97047-265-0	2	COLLAR; GROMMET,ELEC FUEL PUMP	
418	8-98071-404-0	1	GASKET; FUEL PUMP	
484	8-98173-165-0	1	REPAIR KIT; FUEL PUMP MESH FILTER	
646	8-98071-401-0	1	FILTER; FUEL PUMP MESH FILTER	

1-46 DEF TANK AND PIPING

(No.1)



(No.2)

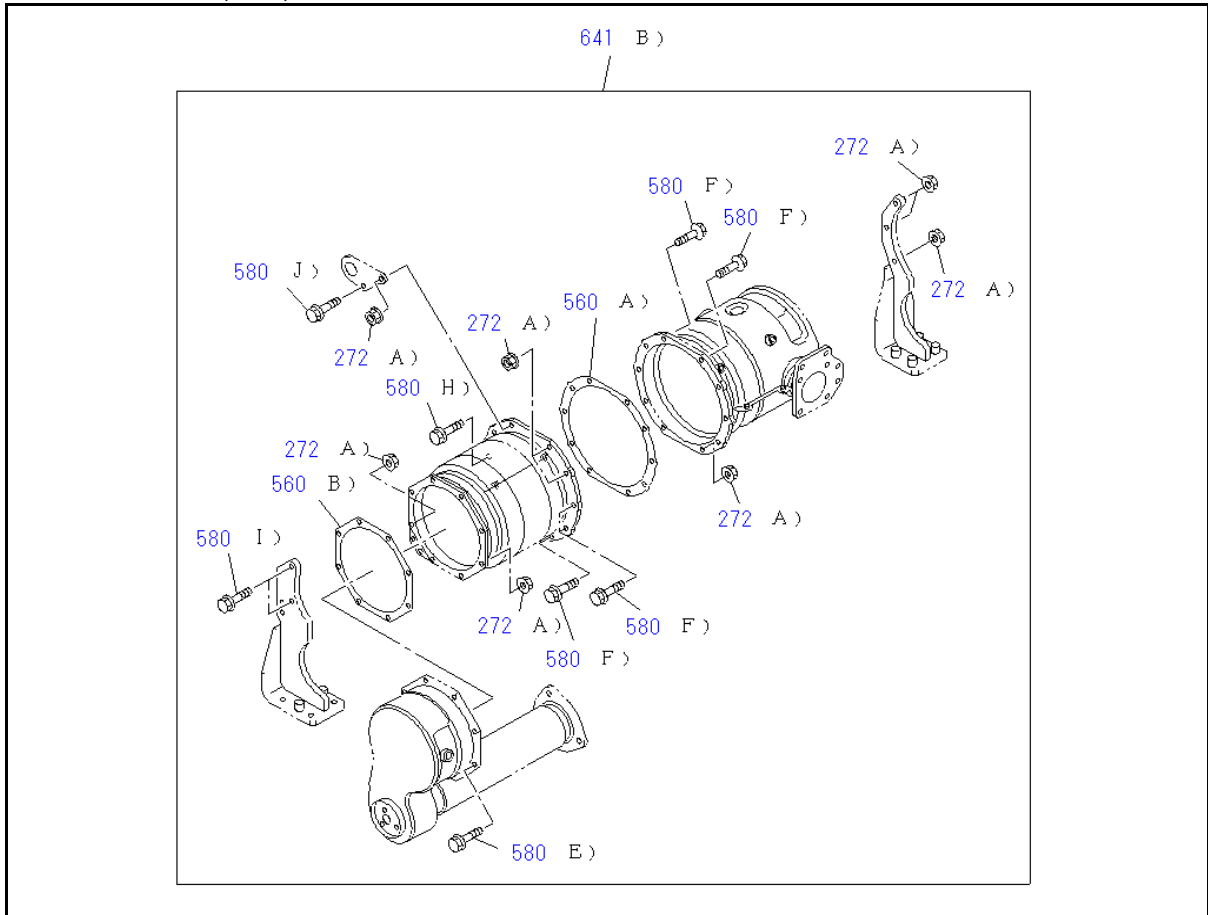


1-46 DEF TANK AND PIPING

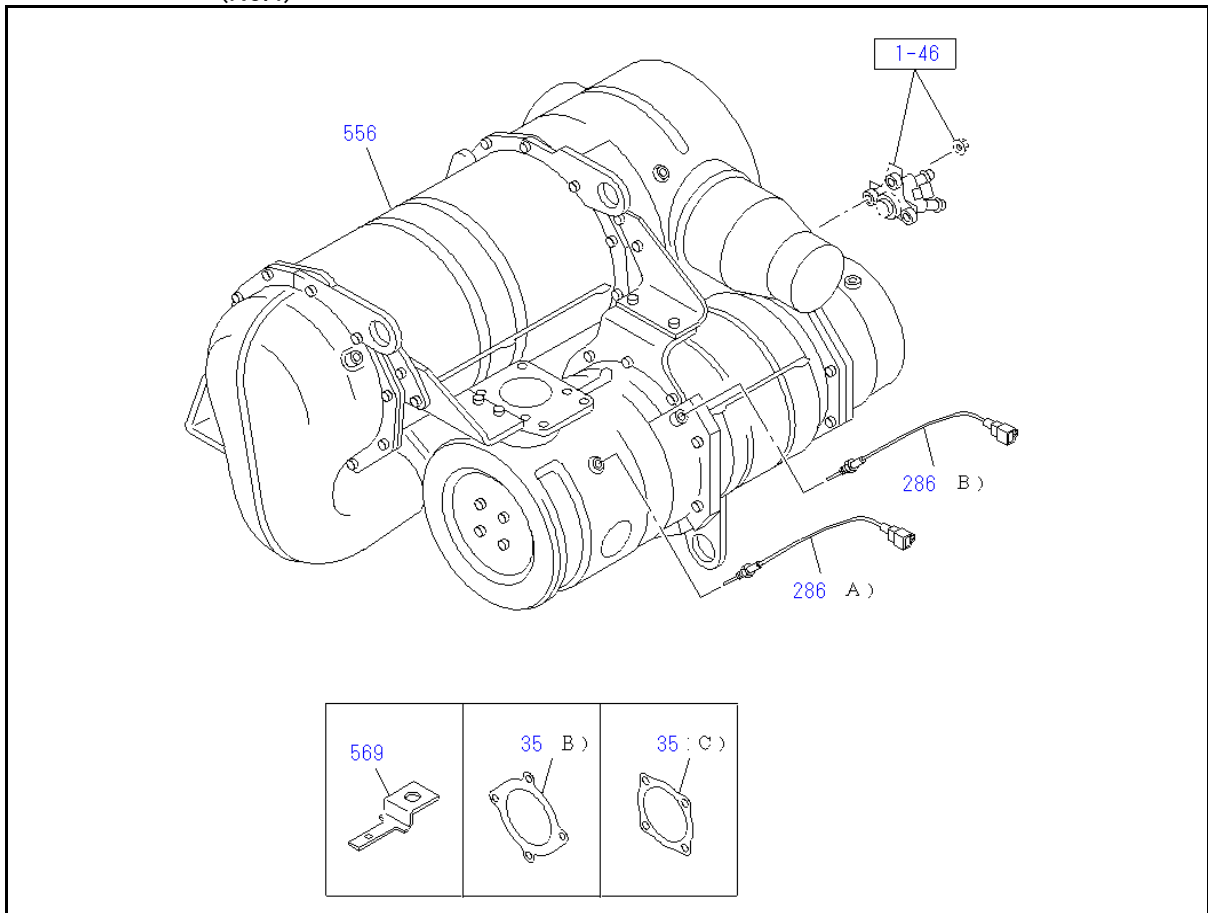
KEY No.	Part no.	qty	Part description	Engine serial no.
1	8-98286-176-4	2	TANK ASM; DEF	
4	8-98268-812-1	1	PUMP ASM; DEF,DCM SPLY	
11	8-98157-936-0	4	BOLT; DEF TANK	
12	0-91180-110-0	4	NUT; DEF TANK M10 FLANGE	
13	8-98156-747-0	2	RETAINER; DEF TANK	
20	8-98231-898-3 <8-98231-898-2>	1	INJECTOR ASM; DEF DCM	
21	0-91180-106-0	3	NUT; INJECTOR ASM,DEF DCM M6 FLANGE	
22	8-98302-394-0	2	SENSOR; DEF DCM EXH NOX	
25	8-98086-329-0	1	SENSOR; DEF DCM EXH TEMP	
32	8-97010-605-0	2	CLAMP; DEF SPLY HOSE ID=24	
41	8-97628-956-1	1	VALVE ASM; DEF TANK HTR DLVY	
61	8-98127-849-3	2	BODY ASM; DEF TANK	
63	8-98120-262-2	2	CAP ASM; FILLER,DEF TANK	
64	8-98120-263-0	2	PLUG; DRAIN,DEF TANK	
65	8-98120-264-1	2	HOSE; WATER LEVEL	
66	8-98120-265-1	4	CLAMP; WATER LEVEL HOSE	
67	8-98286-177-1	2	SENSOR ASM; DEF TANK	
76	8-98156-298-1	2	COVER; DEF TANK CAP	
77	1-09707-183-0	2	CLIP; DEF TANK CAP CVR L=350	
144	9-09906-325-1	1	BOLT; PIPE M14X29 EYE-BOLT	
152	8-98350-716-0	1	FILTER KIT; PUMP ASM,DEF DCM SPLY	
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	
160	8-98170-331-0	1	CLIP; HARNESS,SENSOR DEF DCM EXH TEMP	
161	8-98170-383-0	2	GASKET; SENSOR ASM,DEF TANK	
162	8-98234-328-0	2	ADAPTER; DEF TANK	
167	8-98194-654-0	2	PLATE; CAUTION,DEF	
168	8-98204-163-0	2	INDICATOR; WATER LEVEL	

1-50 EXHAUST PIPE AND SILENCER

(No.3)



(No.4)

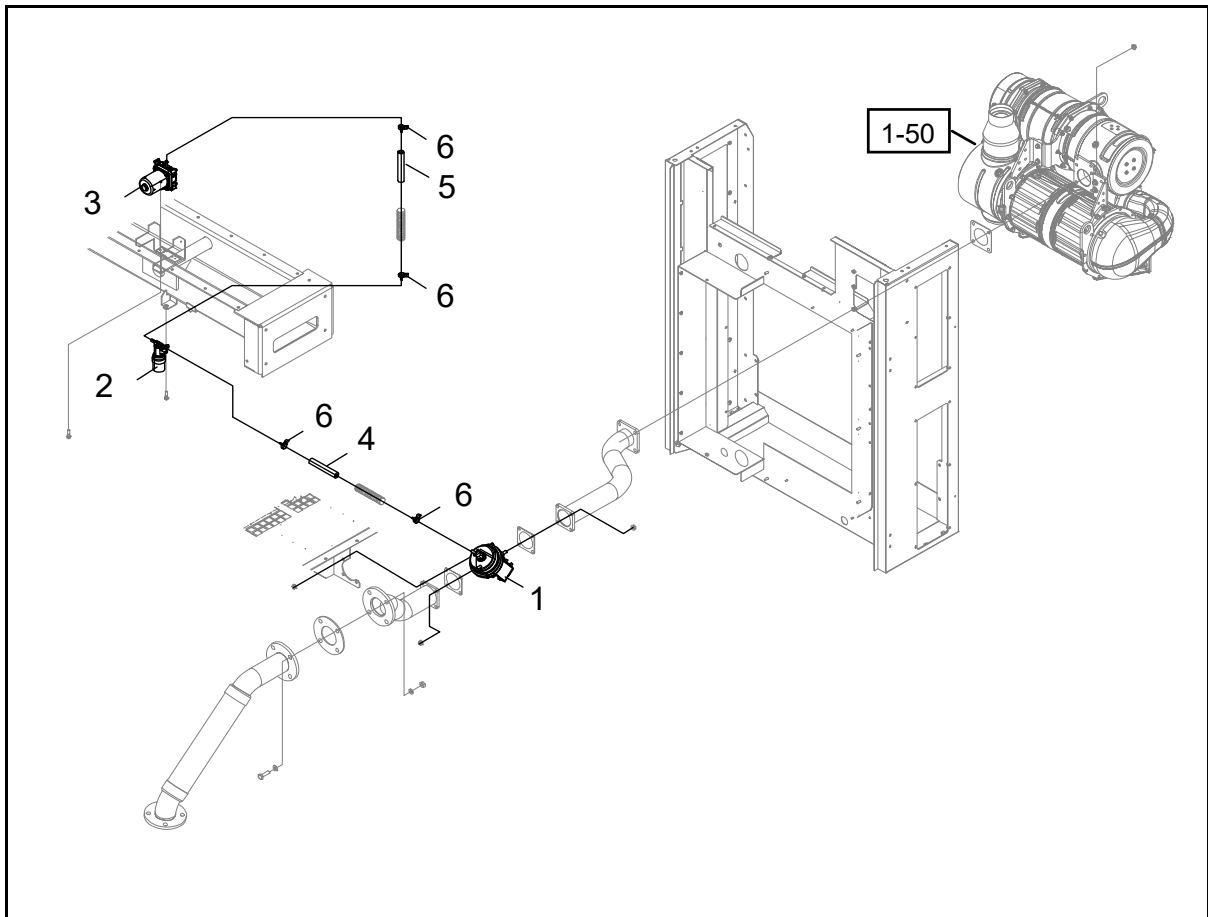


1-50 EXHAUST PIPE AND SILENCER

KEY No.	Part no.	qty	Part description	Engine serial no.
35 (A)	1-22116-040-0	3	GASKET; EXH PIPE TO MANIF ID=81.5	
35 (B)	8-94392-553-2	1	GASKET; EXH PIPE TO MANIF ID=83	
35 (C)	1-22116-043-0	2	GASKET; EXH PIPE TO MANIF ID=85.8	
65	0-91614-710-0	4	WASHER; PL ID=10.5 OD=26	
272 (A)	8-97061-401-1	18	NUT; FLANGE M8 FLANGE	
272 (B)	0-91180-210-0	8	NUT; FLANGE M10 FLANGE	
272 (C)	8-97096-192-1	26	NUT; FLANGE M10 FLANGE	
286 (A)	8-98178-358-1	1	SENSOR; OXYGEN	
286 (B)	8-98186-762-1	1	SENSOR; OXYGEN	
542 (A)	8-98132-913-1	2	BRACKET	
542 (B)	8-98236-706-0	2	BRACKET	
542 (C)	8-98237-444-1	1	BRACKET	
542 (D)	8-98237-445-0	1	BRACKET	
542 (F)	8-98237-449-0	1	BRACKET	
542 (G)	8-98237-737-0	1	BRACKET	
542 (H)	8-98237-739-0	1	BRACKET	
542 (I)	8-98237-740-0	1	BRACKET	
542 (J)	8-98237-827-0	1	BRACKET	
542 (K)	8-98237-828-0	1	BRACKET	
542 (L)	8-98237-830-0	1	BRACKET	
556	8-98324-566-1	1	DPD ASM	
557	8-98238-973-0	1	CATALYST ASM	
558	8-98238-975-0	1	FILTER ASM	
560 (A)	8-97611-092-0	1	GASKET; DPD	
560 (B)	8-97628-257-0	1	GASKET; DPD	
560 (C)	8-98118-421-1	2	GASKET; DPD	
561	8-98237-722-0	1	PIPE; DPD	
569	8-97602-870-1	2	BRACKET; HARNESS CLIP	
580 (A)	0-28050-612-0	4	BOLT; FLANGE M6X12 FLANGE	
580 (B)	0-28061-060-0	2	BOLT; FLANGE M10X60 FLANGE	
580 (C)	0-28061-035-0	16	BOLT; FLANGE M10X35 FLANGE	
580 (E)	0-28060-830-0	6	BOLT; FLANGE M8X30 FLANGE	
580 (F)	0-28060-840-0	7	BOLT; FLANGE M8X40 FLANGE	
580 (G)	0-28060-845-0	3	BOLT; FLANGE M8X45 FLANGE	
580 (H)	0-28060-850-0	2	BOLT; FLANGE M8X50 FLANGE	
580 (I)	8-97223-999-0	2	BOLT; FLANGE M8X53 FLANGE	
580 (J)	0-28060-860-0	1	BOLT; FLANGE M8X60 FLANGE	
580 (K)	0-28061-045-0	10	BOLT; FLANGE M10X45 FLANGE	
580 (L)	0-28061-050-0	6	BOLT; FLANGE M10X50 FLANGE	
589	8-98152-529-1	1	PROTECTOR; HEAT,DPD	
622	8-98324-569-0	1	SILENCER SUB ASM; DPD FRONT	

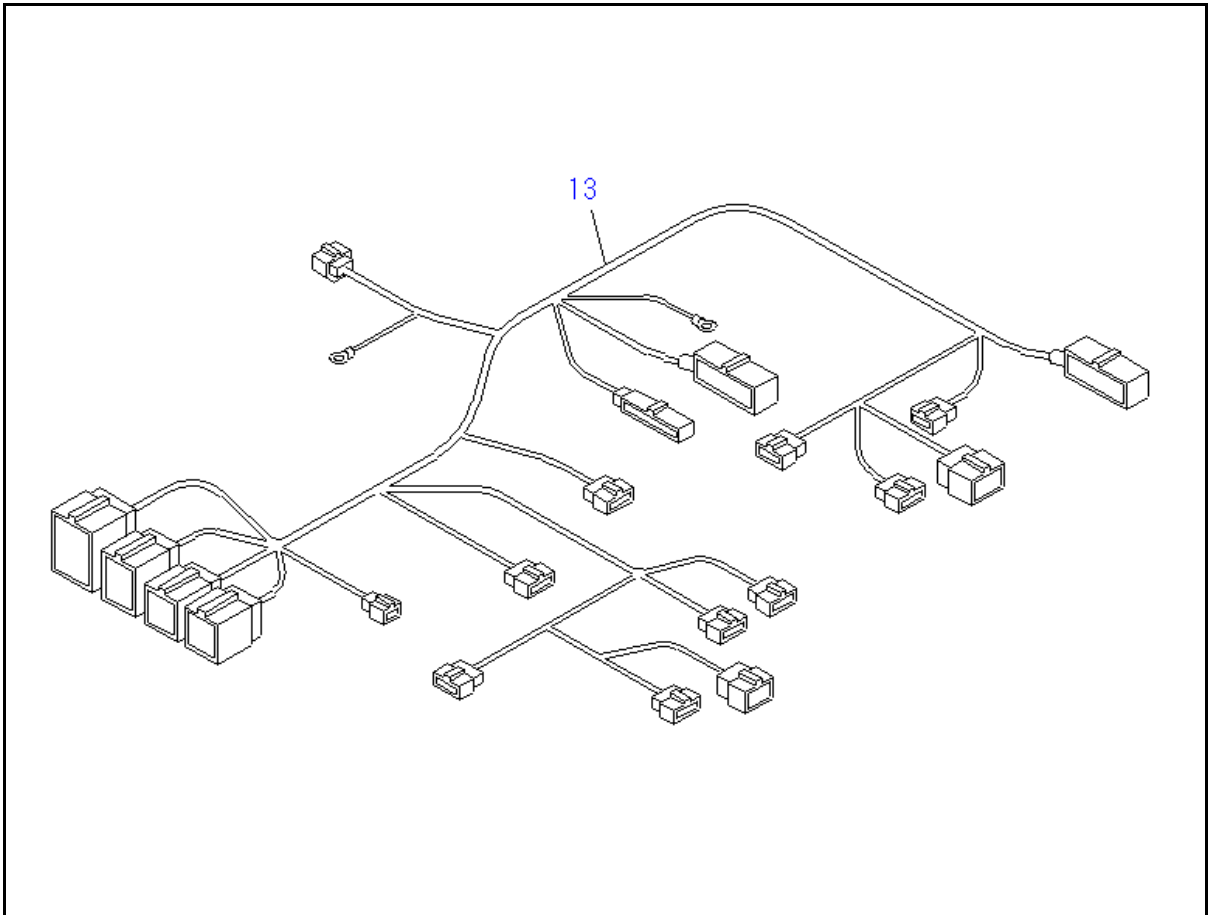
KEY No.	Part no.	qty	Part description	Engine serial no.
633 (A)	8-98217-783-0	1	CHAMBER SUB ASM; DEF,FRONT	
633 (B)	8-98237-720-0	1	CHAMBER SUB ASM; DEF,FRONT	
634	8-98118-422-1	2	GASKET; MIXER	
638	8-98238-506-0	1	CATALYST ASM; DEF	
641 (B)	1-87831-547-0	1	GASKET KIT; FLANGE,DPD	
643	8-98141-351-0	3	STUD M6X34.3 HEXALOBULAR	

1-59 OTHER PARTS



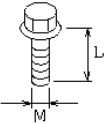
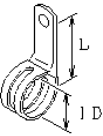
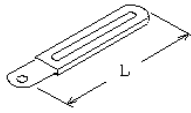
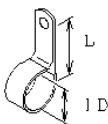
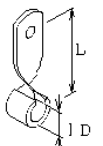
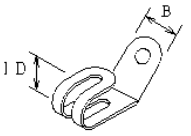

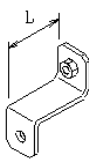
KEY No.	Part no.	qty	Part description	Engine serial no.
1	8-97526-485-0	1	VALVE ASM;EXH THROTTLE	
2	8-98043-344-0	1	VALVE;MAGNETIC (24V), EXH THROTTLE	
3	8-97526-486-0	1	PUMP;VACUUM	
4	0-08358-130-0	1	HOSE;VACUUM	
5	0-08308-740-0	1	HOSE;VACUUM	
6	8-97329-628-0	4	CLAMP;HOSE VACUUM	

8-10 WIRING HARNESS AND FUSE



KEY No.	Part no.	qty	Part description	Engine serial no.
13	8-98268-282-1	1	HARNESS; ENG	

8-15 FIXING PARTS; WIRING HARNESS

SIZE	KEY NO.	SIZE	KEY NO.	SIZE	KEY NO.		
							
M	L	ID	L	L			
8	12	304	A)	21	24	305	G)
	16	304	B)	24	32	305	D)
	20	139		31	35	305	C)
10	16	304	F)				
	20	304	C)				
	25	304	D)				
							
ID	L	ID	L	ID	B		
11	24	305	A)	8	55	305	E)
19	28	305	B)				
							
ID	L	ID	L				
18	44	305	J)				
21	47.5	305	H)				
						308	

KEY No.	Part no.	qty	Part description	Engine serial no.
139	0-28050-820-0	2	BOLT; BRKT M8X20 FLANGE	
304 (A)	0-28050-812-0	5	BOLT; ENG HARNESS CLIP M8X12 FLANGE	
304 (B)	0-28050-816-0	12	BOLT; ENG HARNESS CLIP M8X16 FLANGE	
304 (C)	0-28151-016-0	1	BOLT; ENG HARNESS CLIP M10X16 FLANGE	
304 (D)	0-28151-020-0	1	BOLT; ENG HARNESS CLIP M10X20 FLANGE	
304 (E)	0-28151-025-0	1	BOLT; ENG HARNESS CLIP M10X25 FLANGE	
304 (F)	0-28650-820-0	1	BOLT; ENG HARNESS CLIP M8X20 FLANGE	
305 (A)	0-95235-045-0	2	CLIP; ENG HARNESS ID=11 L=24	
305 (B)	0-95235-856-0	1	CLIP; ENG HARNESS ID=19 L=28	
305 (C)	1-09700-329-1	1	CLIP; ENG HARNESS ID=31 L=35	
305 (D)	1-09700-766-1	3	CLIP; ENG HARNESS ID=24 L=32	
305 (E)	1-09700-479-0 <1-09700-839-1>	1	CLIP; ENG HARNESS ID=8 L=55	
305 (F)	5-09700-307-1	1	CLIP; ENG HARNESS L=80	
305 (G)	8-94176-807-1	1	CLIP; ENG HARNESS ID=21 L=24	
305 (H)	8-94178-108-0	1	CLIP; ENG HARNESS ID=21 L=47.5	

KEY No.	Part no.	qty	Part description	Engine serial no.
305 (I)	8-94443-021-1	4	CLIP; ENG HARNESS L=100	
305 (J)	8-97367-985-1	10	CLIP; ENG HARNESS ID=18 L=44	
305 (K)	8-97367-983-1	1	CLIP; ENG HARNESS ID=12 B=14	
308	1-47475-868-0	1	BRACKET; CLIP,ENG HARNESS L=47	
308	1-47477-088-1	1	BRACKET; CLIP,ENG HARNESS L=110	
308	1-47478-113-0	2	BRACKET; CLIP,ENG HARNESS L=30	
308	8-98089-597-0	1	BRACKET; CLIP,ENG HARNESS L=27	