

0CD10-M43900EN

P R E F A C E

This parts catalog is the 1st edition of 3TNC78L-RTBA for KOBELCO CONSTRUCTION MACHINERY CO., LTD.

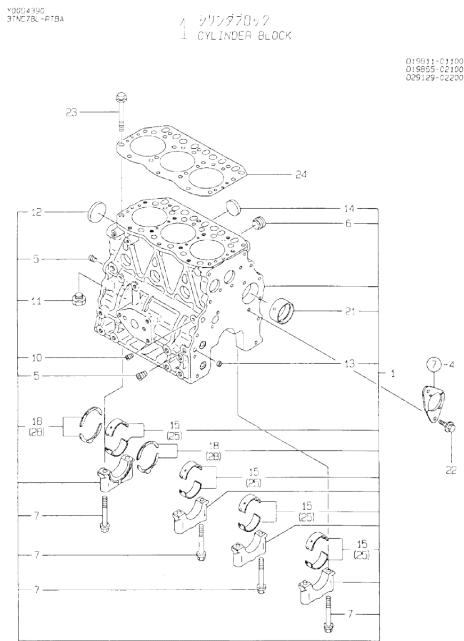
Published : September, 2015

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0CD10-M43900

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Fig.1. CYLINDER BLOCK



(A)=3TNC78L-RTBA
(B)=
(C)=

(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719811-01560	BLOCK ASSY, CYLINDER	1							
5	2	124160-01910	PLUG, PT1/4	2							
6	2	171051-01921	PLUG, NPTF1	1							
7	2	119620-02020	BOLT, METAL CAP	8							
10	2	23871-010000	PLUG, R01	1							
11	2	23887-120002	PLUG, 12	1							
12	2	27231-500000	PLUG 50	1							
13	2	27241-120000	PLUG, 12	2							
14	2	27241-300000	PLUG 30	6							
15	2	719810-02800	BEARING, MAIN	4							
18	2	719810-02930	BEARING, THRUST	2							
21	2	129795-02411	BUSH, CAMSHAFT	1							
22	1	26106-080162	BOLT, M8X 16 PLATED	2							
23	1	119810-01200	BOLT, CYLINDER HEAD	14							
24	1	119811-01330	GASKET, HEAD T=1.4	1							\$
25	1	119810-02870	BEARING ASSY, MAIN	4							1
28	1	119810-02940	BEARING, THRUST 0.25	2							2

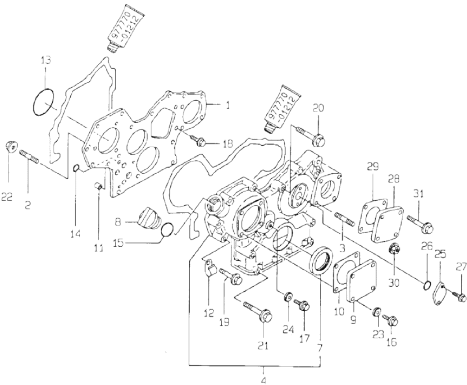
Remarks
(1)Under-sized(U.S.=0.25) parts.
(2)Over-sized(O.S.=0.25) parts.
(\$)These parts are sold as a set with Fig.19 No.1.

Fig.2. GEAR HOUSING

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3TNC78L-RTBA

2 歯ケース
GEAR HOUSING

D76486-01290
D76100-01816
D25150-01810



(A)=3TNC78L-RTBA
(B)=
(C)=

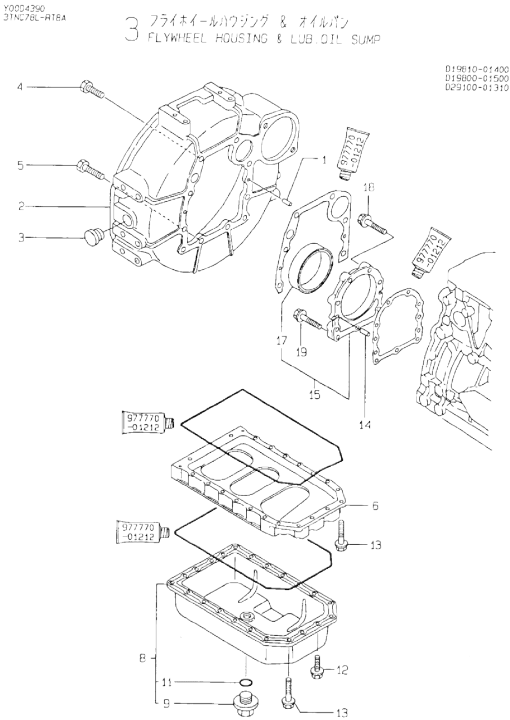
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129100-01520	FLANGE, GEAR CASE	1							
2	1	121450-01560	BOLT, STUD M8X22	3							
3	1	129150-01580	BOLT, STUD M8X30	1							
4	1	129100-01590	CASE ASSY, GEAR	1							
7	2	129795-01800	SEAL, OIL	1							
8	1	124160-01751	CAP, FILLER	1							
9	1	124240-01871	COVER, PUMP	1							
10	1	124240-01883	GASKET	1							\$
11	1	129795-01950	PIPE, DOWEL L=18	2							
12	1	129150-03100	RETAINER, PIPE	1							
13	1	121850-51960	O-RING	1							\$
14	1	24311-000160	O-RING, 1AP16.0	2							\$
15	1	24311-000320	O-RING, 1AP32.0	1							\$
16	1	26106-080122	BOLT, M8X 12 PLATED	4							
17	1	26106-080162	BOLT, M8X 16 PLATED	1							
18	1	26106-080162	BOLT, M8X 16 PLATED	3							
19	1	26106-080452	BOLT, M8X 45 PLATED	6							
20	1	26106-080552	BOLT, M8X 55 PLATED	3							
21	1	26106-080852	BOLT, M8X 85 PLATED	4							
22	1	26366-080002	NUT, M8	3							
23	1	43400-500410	SEAL WASHER 8S	4							
24	1	43400-500410	SEAL WASHER 8S	1							
25	1	121023-01550	COVER	1							
26	1	24341-000240	O-RING, 1AS24.0	1							\$
27	1	26106-060122	BOLT, M6X 12 PLATED	2							
28	1	124240-01871	COVER, PUMP	1							
29	1	124240-01883	GASKET	1							\$
30	1	194990-22050	NUT, M8	1							
31	1	26106-080302	BOLT, M8X 30 PLATED	3							

Remarks

(\$)These parts are sold as a set with Fig.19 No.1.

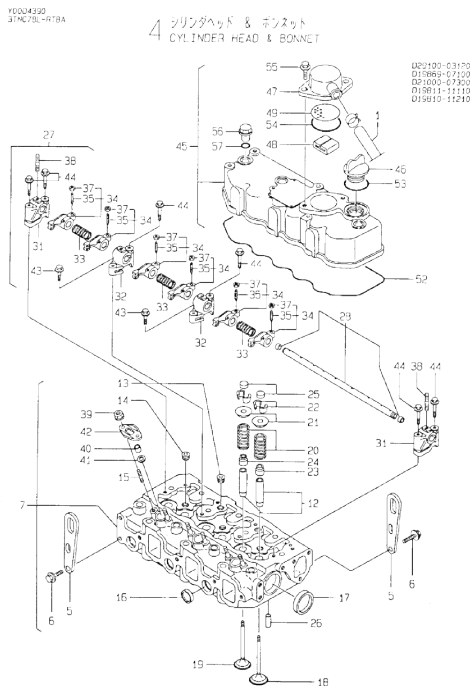
Fig.3. FLYWHEEL HOUSING & OIL SUMP



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129100-01580	PIN, PARALLEL 8X16	2							
2	1	171301-01600	HOUSING, FLYWHEEL	1							
3	1	119620-01750	CAP	1							
4	1	26206-100252	BOLT, M10X 25 PLATED	6							
5	1	26206-100302	BOLT, M10X 30 PLATED	4							
6	1	119810-01730	SPACER, OIL-PAN	1							
8	1	119810-01790	OIL PAN ASSY	1							
9	2	171301-01640	PLUG, M22	1							
11	2	24341-000240	O-RING, 1AS24.0	1							
12	1	26106-080162	BOLT, M8X 16 PLATED	6							
13	1	26106-080452	BOLT, M8X 45 PLATED	22							
14	1	129100-01580	PIN, PARALLEL 8X16	2							
15	1	719810-01650	CASE ASSY, OIL SEAL	1							
17	2	119810-01780	SEAL, 76X93X10	1							
18	1	26106-080302	BOLT, M8X 30 PLATED	6							
19	1	26106-080352	BOLT, M8X 35 PLATED	3							

OCD10-M43900 ENGINE 3TNC78L-RTBA

Fig.4. CYLINDER HEAD & BONNET



Remarks
(1)Repair parts.
(\$)These parts are sold as a set with Fig.19 No.1.

OCD10-M43900 Fig.4

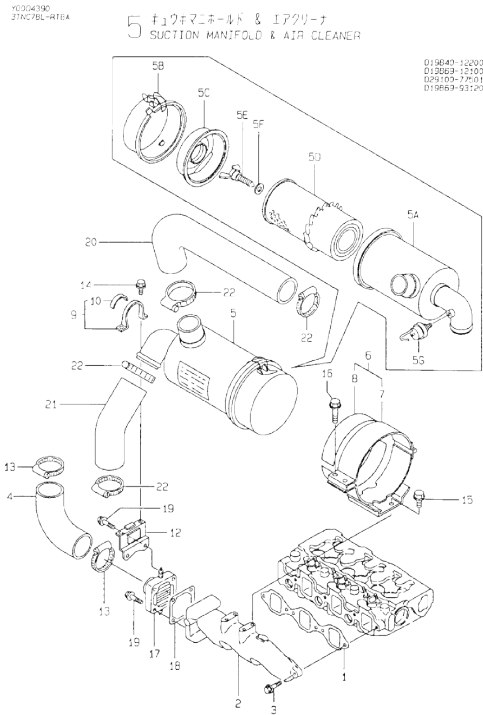
(A)=3TNC78L-RTBA
(B)=
(C)=

(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129150-03090	HOSE, ID16X2T	1							
5	1	124736-07900	LIFTER, ENGINE	2							
6	1	26106-080142	BOLT, M8X 14 PLATED	4							
7	1	719811-11700	HEAD ASSY, CYLINDER	1							1
12	2	124060-11800	GUIDE, INTAKE VALVE	6							
13	2	121850-11860	PLUG, PT1/4	2							
14	2	23871-030000	PLUG, R03	3							
15	2	26216-060302	STUD, M&X 30	6							
16	2	27241-220000	PLUG, 22	3							
17	2	27241-400000	PLUG, 40	2							
18	2	119810-11100	VALVE, INTAKE	3							
19	2	119810-11110	VALVE, EXHAUST	3							
20	2	119810-11120	SPRING, VALVE	6							
21	2	104211-11180	RETAINER, SPRING	6							
22	2	101158-11190	COTTER	6							
22-1	2	27310-070001	COTTER, 7	6							N
(A=EXXXXX)											
23	2	124160-11340	SEAL, VALVE STEM	3							\$
24	2	124950-11340	SEAL, VALVE STEM	3							\$
25	2	104211-11370	CAP, VALVE	6							
26	2	22351-060012	PIN, SPRING 6.0X12	2							
27	1	119865-11200	SUPPORT ASSY, ARM	1							
28	2	119810-11240	SHAFT ASSY, ROCKER	1							
31	2	129155-11260	SUPPORT, ROCKER ARM	2							
32	2	129155-11270	SUPPORT, ROCKER ARM	2							
33	2	129150-11280	SPRING, ROCKER	3							
34	2	719810-11650	ARM ASSY, ROCKER	6							
35	3	129150-11230	SCREW, VALVE ADJUST	6							
37	3	129150-11750	NUT, M8	6							
38	2	26226-080182	STUD, M&X 18	3							
39	2	26366-060002	NUT, M6	6							
40	1	119625-11870	PROTECTOR, NOZZLE	3							\$
41	1	119625-11880	SEAT, NOZZLE	3							\$
42	1	119625-11900	RETAINER, NOZZLE	3							
43	1	26106-080252	BOLT, M8X 25 PLATED	2							
44	1	26106-080502	BOLT, M8X 50 PLATED	6							
45	1	119810-11350	BONNET ASSY, HEAD	1							
46	2	124160-01751	CAP, FILLER	1							
47	2	129150-03020	COVER, BREATHER	1							
48	2	129150-03070	BAFFLE, BREATHER	1							
49	2	129150-03080	PLATE, BAFFLE	1							
52	2	119865-11310	GASKET, BONNET	1							\$
53	2	24311-000320	O-RING, 1AP32.0	1							
54	2	24341-000500	O-RING, 1AS50.0	1							\$
55	2	26106-080162	BOLT, M8X 16 PLATED	2							
56	1	124160-11360	KNOB	3							
57	1	24311-000120	O-RING, 1AP12.0	3							\$

N:Old $\frac{100}{100}$ New, Q:Old $\frac{100}{100}$ New, R:Old $\frac{100}{100}$ New, S:Old $\frac{100}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.5. SUCTION MANIFOLD & AIR CLEANER



Remarks
(\$)These parts are sold as a set with Fig.19 No.1.

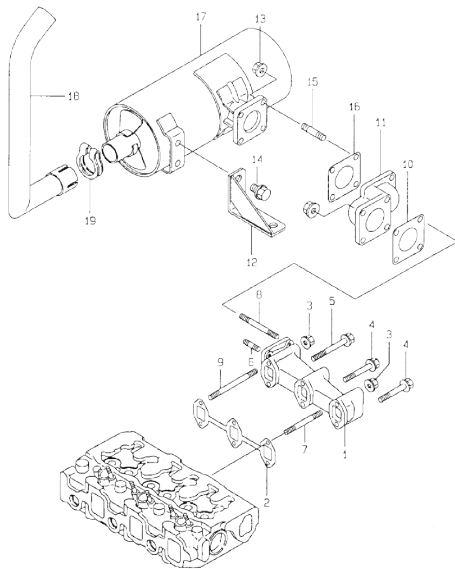
OCD10-M43900 Fig.5									
(A)=3TNC78L-RTBA (D)= (E)= (F)=									
Q'ty									
(A) (B) (C) (D) (E) (F)									
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)
1	1	119810-12111	GASKET, MANIFOLD	1					
2	1	171301-12701	MANIFOLD, AIR INTAKE	1					
3	1	26106-080252	BOLT, M8X 25 PLATED	4					
4	1	119840-12210	PIPE, AIR INTAKE	1					
5	1	119869-12510	CLEANER ASSY, AIR	1					
5A	2	119840-12650	CASE ASSY	1					
5B	2	129350-12660	PAN ASSY, DUST	1					
5C	2	121120-12541	RETAINER, ELEMENT	1					
5D	2	129350-12900	ELEMENT	1					
5E	2	121120-12561	BOLT	1					
5F	2	121120-12571	WASHER, SEAL	1					
5G	2	121262-12800	INDICATOR	1					
6	1	129132-12581	SUPPORT ASSY,CLEANER	1					
7	2	129132-12561	SUPPORT, AIR CLEANER	1					
8	2	119640-12580	SEAT, RUBBER	2					
9	1	129132-12800	BAND, AIR CLEANER	1					
10	2	129132-12850	CLAMP	1					
12	1	119836-12810	SUPPORT, AIR CLEANER	1					
13	1	23000-060000	CLAMP, 60	2					
14	1	26106-060142	BOLT, M6X 14 PLATED	2					
15	1	26106-080142	BOLT, M8X 14 PLATED	4					
16	1	26106-080252	BOLT, M8X 25 PLATED	2					
17	1	129120-77501	HEATER, AIR	1					
18	1	129150-77511	GASKET, AIR HEATER	1					
19	1	26106-080352	BOLT, M8X 35 PLATED	4					
20	1	119869-12210	PIPE, AIR INTAKE	1					
21	1	119869-12220	PIPE, AIR INTAKE	1					
22	1	23000-060000	CLAMP, 60	4					

0CD10-M43900 ENGINE 3TNC78L-RTBA
Fig.6. EXHAUST MANIFOLD & SILENCER

YCD04390
3TNC78L-RTBA

6 ハイマニホールド & サイレンサ
EXHAUST MANIFOLD & SILENCER

019840-13100
019840-13110
019869-93120



Remarks
(\$)These parts are sold as a set with Fig.19 No.1.

0CD10-M43900 Fig.6

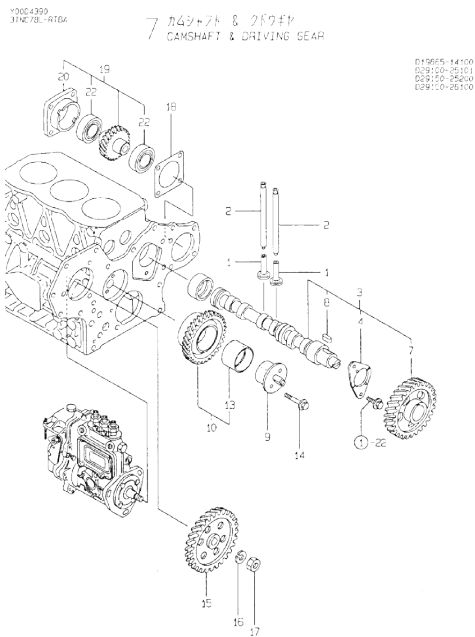
(A)=3TNC78L-RTBA
(B)=
(C)=

(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119840-13100	MANIFOLD, EXHAUST	1							
2	1	119810-13110	GASKET, EXH.MANIFOLD	1							\$
3	1	194990-22050	NUT, M8	2							
4	1	26106-080602	BOLT, M8X 60 PLATED	3							
5	1	26106-080802	BOLT, M8X 80 PLATED	1							
6	1	26216-080222	STUD, M8X 22	2							
7	1	26216-080602	STUD, M8X 60	1							
8	1	26216-080702	STUD, M8X 70	2							
9	1	26216-080802	STUD, M8X 80	1							
10	1	124701-11911	GASKET, SILENCER	1							
11	1	119840-13150	PIPE, CONNECTING	1							
12	1	119840-13650	STAY, SILENCER	1							
13	1	194990-22050	NUT, M8	2							
14	1	26106-100162	BOLT, M10X 16 PLATED	2							
15	1	26216-080222	STUD, M8X 22	2							
16	1	124701-11911	GASKET, SILENCER	1							\$
17	1	119640-13500	SILENCER	1							
18	1	119869-13550	PIPE	1							
19	1	124664-13580	CLAMP	1							

N:Old $\frac{YES}{NO}$ New, Q:Old $\frac{YES}{NO}$ New, R:Old $\frac{YES}{NO}$ New, S:Old $\frac{YES}{NO}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.7. CAMSHAFT & DRIVING GEAR



Remarks
(1)Repair parts.
(\$)These parts are sold as a set with Fig.19 No.1.

(A)=3TNC78L-RTBA
(B)=
(C)=

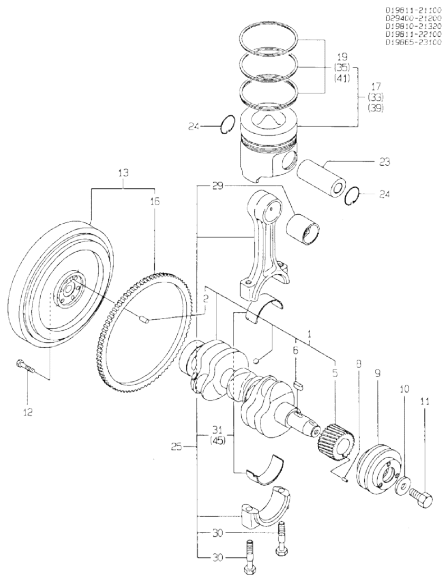
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129150-14200	TAPPET	6							
2	1	119810-14400	PUSH-ROD	6							
3	1	119810-14580	CAMSHAFT ASSY	1							
4	2	129150-02450	BEARING, THRUST	1							
7	2	129150-14101	GEAR, CAMSHAFT	1							
8	2	22512-070140	KEY, 7X 14	1							
9	1	129100-25061	SHAFT, IDLE	1							
10	1	129150-25101	GEAR ASSY, IDLE	1							
13	2	129150-25920	BUSH, IDLE GEAR	1							1
14	1	26106-080452	BOLT, M8X 45 PLATED	2							
15	1	129150-25900	GEAR, PUMP	1							
16	1	22217-120000	WASHER, SPRING 12	1							
17	1	26716-120002	NUT, M12	1							
18	1	129150-01881	GASKET	1							\$
19	1	129150-26000	DRIVE ASSY, PUMP	1							
20	2	129150-26050	BRACKET, PUMP	1							
22	2	24101-060064	BEARING, BALL 6006	2							

OCD10-M43900 ENGINE 3TNC78L-RTBA
Fig.8. CRANKSHAFT & PISTON

Y0004390
3TNC78L-RTBA

クランクシャフト & ピストン
CRANKSHAFT & PISTON



OCD10-M43900 Fig.8

(A)=3TNC78L-RTBA
(B)=
(C)=

(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719811-21700	CRANKSHAFT ASSY	1							
2	2	129100-01580	PIN, PARALLEL 8X16	1							
5	2	129150-21200	GEAR, CRANKSHAFT	1							
6	2	22512-070140	KEY, 7X 14	1							
8	1	22351-040010	PIN, SPRING 4.0X10	1							
9	1	171301-21650	V-PULLEY, CRANKSHAFT	1							
10	1	129795-21661	WASHER	1							
11	1	121850-21680	BOLT	1							
12	1	121111-21501	BOLT, FLYWHEEL	6							
13	1	171325-21590	FLYWHEEL ASSY	1							
16	2	119865-21600	GEAR, RING Z=116	1							
17	1	119811-22080	PISTON ASSY	3							
19	2	729100-22500	RING SET, PISTON	3							
23	1	104200-22300	PIN, PISTON	3							
24	1	129792-22400	CIRCLIP, 23	6							
25	1	719810-23100	ROD ASSY, CONNECTING	3							
29	2	119810-23910	BEARING, PISTON PIN	3							1
30	2	119810-23200	BOLT, CONNECTING ROD	6							
31	2	119810-23600	BEARING, CRANK PIN	3							
33	1	719811-22900	PISTON ASSY, 0.25 OS	3							2
35	2	729555-22950	RING SET, 0.25 OS	3							
39	1	119811-22920	PISTON ASSY, 0.50 OS	3							3
41	2	129100-22970	RING SET, 0.50 OS	3							3
45	1	119810-23610	BEARING, 0.25 US	3							4

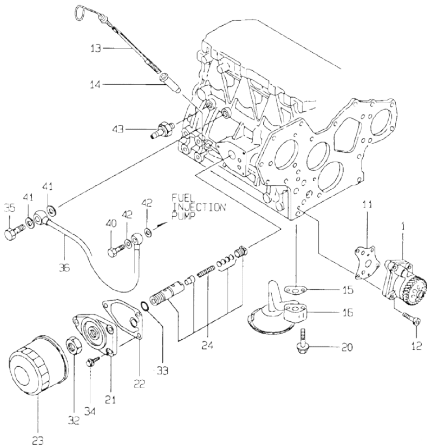
Remarks
(1)Repair parts.
(2)Over-sized(O.S.=0.25) parts.
(3)Over-sized(O.S.=0.50) parts.
(4)Under-sized(U.S.=0.25) parts.

Fig.10. LUB. OIL SYSTEM

Y0004390
3TNC78L-RTBA

10 LOZ74
LUB. OIL SYSTEM

D19810-32100
D19810-34100
D19810-35100
D29150-35200
D19810-39110
D19810-39110



(A)=3TNC78L-RTBA
(B)=
(C)=

(D)=
(E)=
(F)=

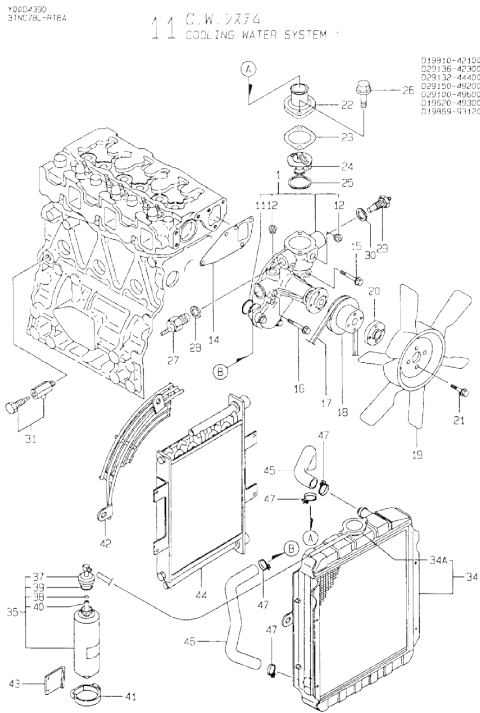
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119810-32000	PUMP ASSY, OIL	1							
11	1	129150-32020	GASKET, PUMP	1							\$
12	1	26450-060252	BOLT, M6X 25	4							
13	1	119600-34800	DIPSTICK, OIL	1							
14	1	121520-34810	GUIDE, DIPSTICK	1							
15	1	129150-35041	GASKET	1							\$
16	1	119810-35400	PIPE ASSY, OIL INLET	1							
20	1	26106-080352	BOLT, M8X 35 PLATED	2							
21	1	129150-35101	BRACKET, FILTER	1							
22	1	129150-35111	GASKET	1							\$
23	1	129150-35150	FILTER 90X80L	1							
24	1	119865-35300	VALVE ASSY, CONTROL	1							
32	1	129150-35350	NUT	1							
33	1	24311-000160	O-RING, 1AP16.0	1							\$
34	1	26106-080202	BOLT, M8X 20 PLATED	3							
35	1	124160-39140	BOLT, PIPE JOINT M10	1							
36	1	119810-39200	PIPE ASSY, OIL	1							
40	1	124550-59820	BOLT, PIPE JOINT M8	1							
41	1	23414-100000	GASKET, 10X1.0	2							\$
42	1	43400-500410	SEAL WASHER 8S	2							
43	1	124160-39450	SWITCH, HYDRAULIC	1							

Remarks

(\$)These parts are sold as a set with Fig.19 No.1.

OCD10-M43900 ENGINE 3TNC78L-RTBA

Fig.11. COOLING WATER SYSTEM



Remarks
(\$)These parts are sold as a set with Fig.19 No.1.

OCD10-M43900 Fig.11

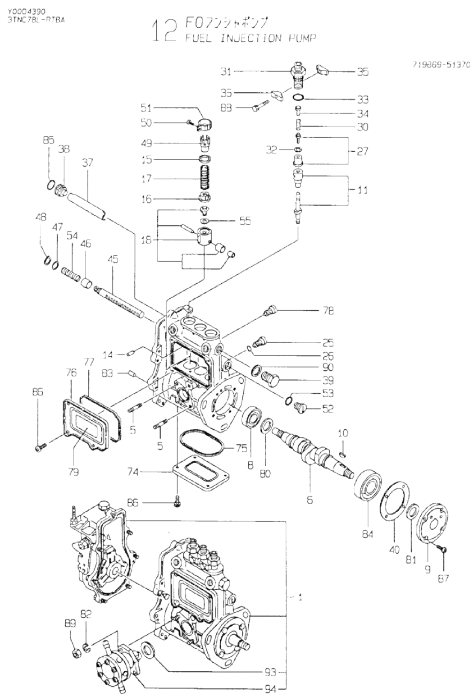
(A)=3TNC78L-RTBA
(B)=
(C)=

(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119810-42001	PUMP ASSY, WATER	1							
11	2	129150-42320	O-RING	1							
12	2	23871-030000	PLUG, R03	2							
14	1	129150-42020	GASKET, WATER PUMP	1							\$
15	1	26106-080352	BOLT, M8X 35 PLATED	1							
16	1	26106-080552	BOLT, M8X 55 PLATED	3							
17	1	119865-42290	V-BELT, A36.5	1							
18	1	129556-42350	V-PULLEY, 96	1							
19	1	121520-44740	FAN, COOLING D325	1							
20	1	124574-44761	SPACER, FAN	1							
21	1	26014-060302	BOLT, M6X 30	4							
22	1	129350-49530	COVER, THERMOSTAT	1							
23	1	129795-49551	GASKET	1							\$
24	1	129155-49800	THERMOSTAT, 71C	1							
25	1	129150-49811	GASKET, THERMOSTAT	1							\$
26	1	26106-080202	BOLT, M8X 20 PLATED	2							
27	1	121250-44901	SWITCH, THERMO 110	1							
28	1	124465-44950	GASKET, 16	1							\$
29	1	124250-49351	SENSOR, WATER TEMP.	1							
30	1	129150-49360	GASKET	1							\$
31	1	119620-49290	COCK ASSY, 1/4	1							
34	1	119869-44510	RADIATOR	1							
34A	2	123682-44210	CAP, RADIATOR	1							
35	1	171064-44510	TANK ASSY, SUB	1							
36	2	171064-44520	BODY, SUB-TANK	1							
37	2	121450-44531	CAP	1							
38	2	124450-44560	CLAMP, HOSE	1							
39	2	121470-44581	GASKET	1							
40	2	23065-070225	HOSE 7X 225	1							
41	1	124450-44550	BAND, SUB-TANK	1							
42	1	129132-44590	NET, WIRE	1							
43	1	121256-44600	BRACKET, SUB TANK	1							
44	1	129132-44901	COOLER ASSY, OIL	1							
45-1	1	119859-49010	PIPE, WATER	1							
46	1	119869-49020	PIPE, WATER	1							
47	1	23010-038000	CLAMP, 38	4							

N:Old $\frac{YES}{NO}$ New, Q:Old $\frac{RIS}{YES}$ New, R:Old $\frac{YES}{YES}$ New, S:Old $\frac{RIS}{NO}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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OCD10-M43900 ENGINE 3TNC78L-RTBA
Fig.12. FUEL INJECTION PUMP



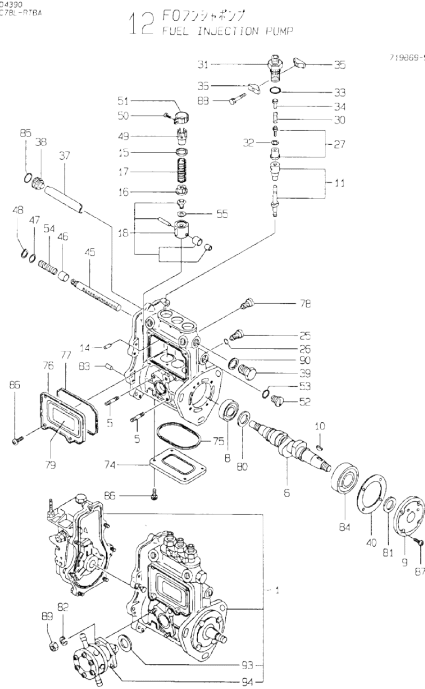
Remarks
(1)Governor(Fig.13) is incorporated in this Fuel Injection Pump(No.1).
(\$)These parts are sold as a set with Fig.19 No.1.

										OCD10-M43900 Fig.12	
										(A)=3TNC78L-RTBA (D)= (E)= (F)=	
										Q'ty	
										I R	
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719869-51370	PUMP ASSY, INJECTION	1							1
5	2	129155-51020	BOLT, STUD	2							
6	2	119810-51040	CAMSHAFT	1							
8	2	129155-51050	BEARING, 17BM001D	1							
9	2	129155-51060	SUPPORT, CAMSHAFT	1							
10	2	122710-51090	FEATHER KEY,WOODRUFF	1							
11	2	129108-51100	PLUNGER ASSY, FUEL	3							
14	2	129155-51140	PIN	3							
15	2	174307-51170	RETAINER, SPRING A	3							
16	2	129155-51180	RETAINER, SPRING	3							
17	2	124950-51190	SPRING, PLUNGER	3							
18	2	129155-51200	TAPPET ASSY	3							
25	2	129155-51270	STOPPER, TAPPET	3							
26	2	129155-51280	O-RING, S6	3							
27	2	128170-51300	VALVE ASSY, DELIVERY	3							
30	2	129155-51320	SPRING, DELIVERY	3							
31	2	129155-51340	HOLDER, DELIVERY	3							
32	2	124550-51350	GASKET, DELIVERY	3							
33	2	124550-51370	O-RING	3							
34	2	129155-51370	STOPPER, DELIVERY	3							
35	2	129155-51380	STOPPER, DELIVERY	2							
36	2	129155-51390	STOPPER, DELIVERY	2							
37	2	129155-51400	DEFLECTOR	1							
38	2	129155-51410	PLUG, SCREW	1							
39	2	129155-51420	PLUG, M16	1							
40	2	129155-51450	SHIM SET, ADJUSTING	1							
45	2	129155-51500	RACK, CONTROL	1							
46	2	129155-51521	BUSH, RACK	1							
47	2	129155-51530	SPACER	1							
48	2	129155-51540	CIRCLIP	1							
49	2	129155-51550	PINION, CONTROL	3							
50	2	122117-51560	SCREW	3							
51	2	174307-51560	PINION	3							
52	2	129155-51570	PLUG, M12	1							
53	2	129155-51580	O-RING	1							
54	2	129155-51591	SPRING, RACK	1							
55	2	129155-51600	SHIM SET, ADJUSTING	3							
74	2	129155-51700	COVER	1							
75	2	129155-51710	GASKET	1							
76	2	129155-51750	COVER	1							
77	2	129155-51760	GASKET	1							
78	2	129155-51790	STOPPER, RACK	1							
79	2	129156-51910	LABEL, CAUTION	1							
80	2	129155-51930	SPACER, T=3.25	1							
81	2	129155-51940	SPACER, T=1.5	1							
82	2	22217-060000	WASHER, SPRING 6	2							
83	2	22351-050010	PIN, SPRING 5.0X10	2							
84	2	24101-063034	BEARING, BALL 6303	1							
85	2	24341-000160	O-RING, 1AS16.0	1							
86	2	26022-050102	SCREW, M5X10	8							
87	2	26022-060162	SCREW, M6X16	4							

N:Old $\frac{100}{100}$ New, Q:Old $\frac{100}{100}$ New, R:Old $\frac{100}{100}$ New, S:Old $\frac{100}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
++ CONTINUE ++
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OCD10-M43900 ENGINE 3TNC78L-RTBA
Fig.12. FUEL INJECTION PUMP

Y20C4390
3TNC78L-RTBA



12 FUEL INJECTION PUMP

719605-51370

OCD10-M43900 Fig.12

(A)=3TNC78L-RTBA
(B)=
(C)=

(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
88	2	26116-050302	BOLT, M5X 30 PLATED	2							
89	2	26716-060002	NUT, M6	2							
90	2	43400-500490	SEAL WASHER 16S	1							
93	2	129155-52050	GASKET	1							\$
94	2	129100-52100	PUMP ASSY, FUEL FEED	1							

Remarks
(1)Governor(Fig.13) is incorporated in this Fuel Injection Pump(No.1).
(\$)These parts are sold as a set with Fig. 19 No.1.

N:Old $\frac{YES}{NO}$ New, Q:Old $\frac{RIS}{YES}$ New, R:Old $\frac{YES}{YES}$ New, S:Old $\frac{RIS}{NO}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.13. GOVERNOR

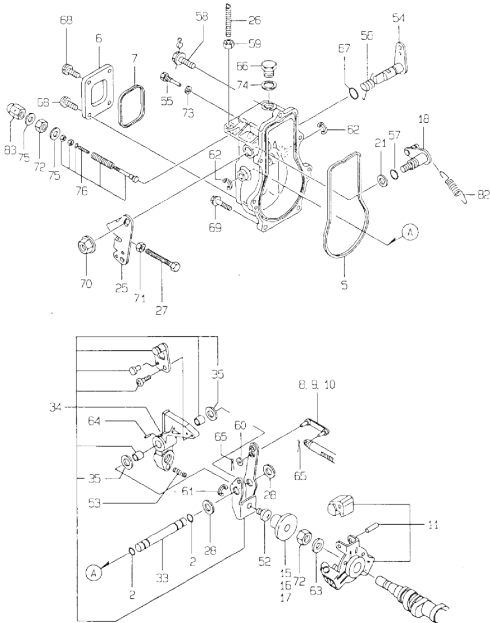
(A)=3TNC78L-RTBA
(B)=
(C)=

(D)=
(E)=
(F)=

Y0004390
3TNC78L-RTBA

13 13 13
GOVERNOR

719869-51370



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
2	2	129155-51280	O-RING, S6	2							
5	2	129155-61050	GASKET	1							
6	2	129155-61060	COVER, GOVERNOR CASE	1							
7	2	129155-61070	GASKET	1							
8	2	129155-61120	LINK, L=30 MARK 0	1							
9	2	129155-61130	LINK, L=31 MARK 1	1							
10	2	129155-61140	LINK, L=30.5 MARK 05	1							
11	2	129155-61201	WEIGHT ASSY,GOVERNOR	1							
15	2	129155-61341	SLEEVE	1							
16	2	129155-61350	SLEEVE, L=24.9	1							
17	2	129155-61360	SLEEVE, L=25.2	1							
18	2	129100-61400	SHAFT ASSY	1							
21	2	129155-61430	SHIM, SHAFT	1							
25	2	129100-61440	LEVER, CONTROL	1							
26	2	129155-61450	BOLT, LIMITING	1							
27	2	129155-61460	BOLT, LIMITING	1							
28	2	129155-61480	SHIM ASSY	2							
33	2	129155-61490	SHAFT	1							
34	2	129500-61500	LEVER ASSY, GOVERNOR	1							
35	3	174307-51700	SHIM SET, PLUNGER	2							
52	2	129155-61540	SHIFTER	1							
53	2	129100-61650	SPRING, FUEL LIMITER	1							
54	2	129255-61802	LEVER, STOP	1							
55	2	129155-61810	PIN	1							
56	2	129100-61821	SPRING, RETURN	1							
57	2	129155-61830	O-RING, S10	1							
58	2	129155-61950	BOLT	1							
59	2	124550-66370	NUT, M6	1							
60	2	22117-040000	WASHER, 4	1							
61	2	22272-000040	RING, E- 4	1							
62	2	22272-000060	RING, E- 6	2							
63	2	22287-120000	WASHER, 12	1							
64	2	22351-030016	PIN, SPRING 3.0X16	1							
65	2	22372-040000	PIN, SNAP 4	2							
66	2	23887-100002	PLUG, 10	1							
67	2	24311-240100	O-RING, 1AP10A	1							
68	2	26022-050102	SCREW, M5X10	4							
69	2	26106-060202	BOLT, M6X 20 PLATED	6							
70	2	26366-080002	NUT, M8	1							
71	2	26756-060002	NUT, LOCK M6	1							
72	2	26776-120002	NUT, LOCK M12	2							
73	2	43400-500390	SEAL WASHER 6S	1							
74	2	43400-500430	SEAL WASHER 10S	1							
75	2	43400-500450	SEAL WASHER 12S	2							
76	1	129100-61450	LIMITER ASSY, FUEL	1							
82	1	171353-61710	SPRING, GOVERNOR	1							
83	1	26687-120002	NUT, CAP M12	1							

(A)=3TNC78L-RTBA
(B)=
(C)=

(D)=
(E)=
(F)=



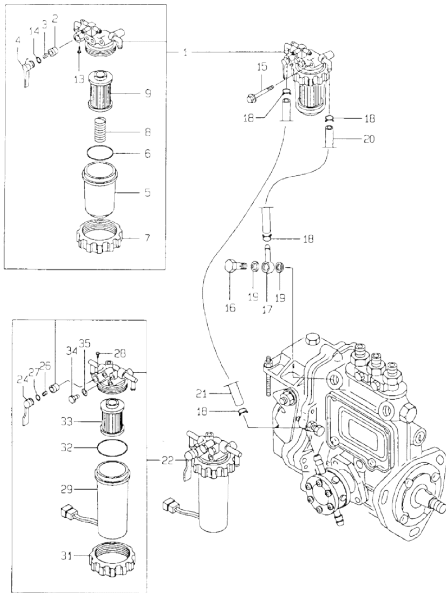
N:Old $\xrightarrow{\text{YES}}$ New. Q:Old $\xrightarrow{\text{NO}}$ New. R:Old $\xrightarrow{\text{YES}}$ New. S:Old $\xrightarrow{\text{NO}}$ New. W:Add. Z:Discontinued. F:Interchangeable by set. K:Qty Change

Fig.15. FUEL FILTER

Y0024390
3TNC78L-RTBA

15 FUEL FILTER

D19810-55111
D29100-55211
D15800-03120



(A)=3TNC78L-RTBA
(B)=
(C)=

(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119810-55621	FILTER ASSY, FUEL	1							
2	2	104200-55321	VALVE, TAPER	1							
3	2	104200-55330	SPRING, FUEL VALVE	1							
4	2	119810-55340	LEVER, FUEL	1							
5	2	121254-55510	CUP, FUEL STARINER	1							
6	2	102103-55520	O-RING	1							
7	2	110250-55610	RING, CUP RETAINING	1							
8	2	121250-55620	SPRING, ELEMENT	1							
9	2	119810-55650	ELEMENT	1							
13	2	104200-55750	SCREW, PAN M4	1							
14	2	24311-240100	O-RING, 1AP10A	1							
15	1	26014-080702	BOLT, M8X 70	1							
16	1	103854-39140	BOLT, PIPE JOINT	1							
17	1	101304-59020	JOINT, PIPE 12	1							
18	1	124766-59050	CLAMP, HOSE 11.5	4							
19	1	104200-59170	GASKET, 12	2							\$
20	1	129555-59510	HOSE, D13/7.5X180	1							
21	1	105025-59530	HOSE, FUEL D13X400	1							
22	1	129137-55700	SEPARATOR ASSY,WATER	1							
24	2	104200-55341	HANDLE, COCK	1							
26	2	104200-55330	SPRING, FUEL VALVE	1							
27	2	24311-240100	O-RING, 1AP10A	1							
28	2	104200-55750	SCREW, PAN M4	1							
29	2	129137-55710	CUP ASSY	1							
31	2	110250-55610	RING, CUP RETAINING	1							
32	2	102103-55520	O-RING	1							
33	2	171081-55910	FILTER, FUEL	1							
34	2	101720-55750	PLUG, HEXAGON M6	2							
35	2	23418-060000	GASKET, 6X1.0	2							

Remarks

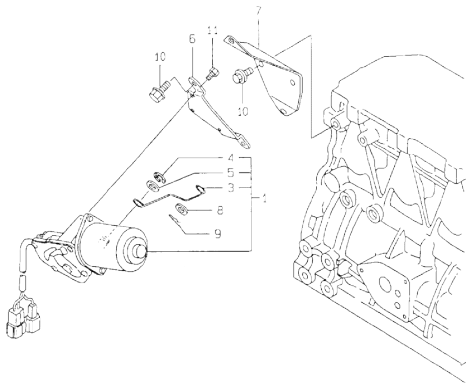
(\$)These parts are sold as a set with Fig.19 No.1.

Fig.16. ENGINE STOP DEVICE

Y00043900
3TNC78L-RTBA

16 16
ENGINE STOP DEVICE

D19535-00500



(A)=3TNC78L-RTBA
(B)=
(C)=

(D)=
(E)=
(F)=

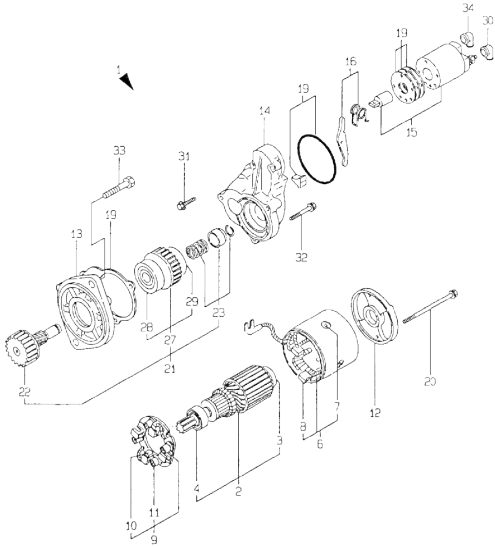
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119836-66800	MOTOR ASSY, STOP	1							
3	2	119840-66830	SPRING, STOP MOTOR	1							
4	2	129566-66880	RING, SNAP	1							
5	2	129566-66890	WASHER	1							
6	1	119840-66810	BRACKET, STOP MOTOR	1							
7	1	119856-66811	BRACKET, STOP MOTOR	1							
8	1	22117-080000	WASHER, 8	1							
9	1	22360-080000	SNAP PIN 8	1							
10	1	26106-080122	BOLT, M8X 12 PLATED	4							
11	1	26116-050102	BOLT, M5X 10 PLATED	3							

Fig.17. STARTER MOTOR

YCD04390
3TNC78L-RTBA

17 スターティングモータ
STARTING MOTOR

DP9100-77120
D19859-93120



(A)=3TNC78L-RTBA
(B)=
(C)=

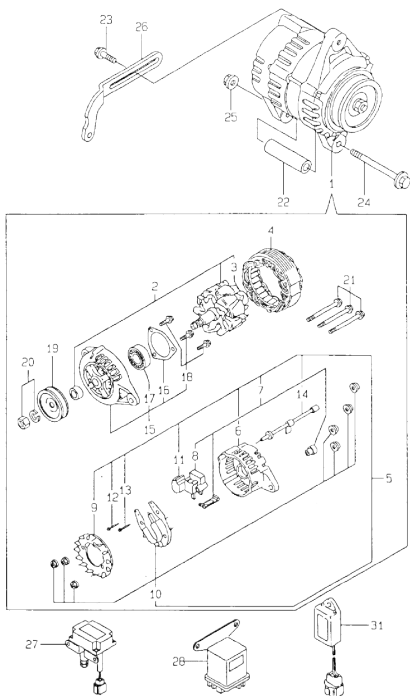
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	171008-77010	STARTER ASSY	1							
2	2	171008-77400	ARMATURE ASSY	1							
3	3	171008-77410	BEARING, BALL	1							
4	3	171008-77420	BEARING, BALL	1							
6	2	171008-77440	COIL ASSY, FIELD	1							
7	3	171008-77450	SCREW, CORE SET	4							
8	3	171008-77460	BRUSH (+)	2							
9	2	171008-77470	HOLDER ASSY, BRUSH	1							
10	3	171008-77480	BRUSH (-)	2							
11	3	171008-77490	SPRING, BRUSH	4							
12	2	171008-77500	COVER, REAR	1							
13	2	171008-77510	CASE, GEAR	1							
14	2	171008-77520	HOUSING, CENTER	1							
15	2	171008-77530	SWITCH, MAGNETIC	1							
16	2	171008-77540	LEVER SET	1							
19	2	171008-77571	COVER KIT, DUST	1							
20	2	171008-77640	BOLT, THROUGH	2							
21	2	171008-77650	PINION ASSY,W/CLUTCH	1							
22	3	171008-77660	SHAFT, PINION	1							
23	3	171008-77670	STOPPER SET, PINION	1							
27	3	171008-77720	CLUTCH ASSY	1							
28	4	171008-77730	BEARING, BALL	1							
29	4	171008-77740	BEARING, BALL	1							
30	2	171008-77750	COVER, TERMINAL	1							
31	2	26106-060322	BOLT, M6X 32 PLATED	2							
32	2	26106-060402	BOLT, M6X 40 PLATED	3							
33	1	26116-120252	BOLT, M12X 25 PLATED	2							
34	1	124550-77030	COVER, TERMINAL	1							

Fig.18. GENERATOR

Y0304390
3TNC78L-RTBA

ジェネレータ
GENERATOR

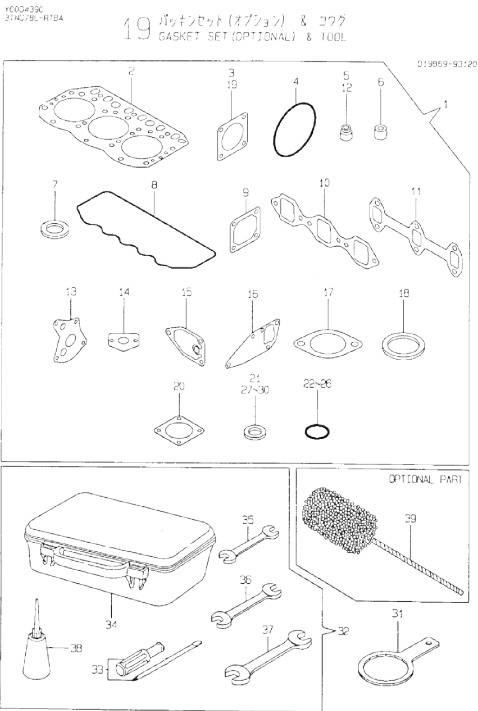


(A)=3TNC78L-RTBA
(B)=
(C)=

(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119836-77200	GENERATOR	1							
2	2	119836-77700	ROTOR ASSY	1							
3	3	119836-77850	BALL BEARING	1							
4	2	119836-77710	STATOR ASSY	1							
5	2	119836-77721	COVER ASSY, REAR	1							
6	3	119836-77730	COVER, REAR	1							
7	3	119836-77741	BRUSH ASSY,REGULATOR	1							
8	4	119836-77750	BRUSH ASSY	1							
9	3	119836-77760	GUIDE, FAN SIDE	1							
10	3	119836-77770	DIODE ASSY	1							
11	3	119836-77780	CONDENSER	1							
12	3	119836-77871	BOLT (1)	1							
13	3	119836-77880	BOLT (2)	1							
14	3	119836-77890	WIRE ASSY, LEAD	1							
15	2	119836-77790	COVER ASSY, FRONT	1							
16	3	119836-77800	RETAINER, BEARING	1							
17	3	119836-77840	BALL BEARING	1							
18	3	119836-77860	SCREW KID	1							
19	2	119836-77810	PULLEY	1							
20	2	119836-77820	NUT ASSY, PULLEY	1							
21	2	119836-77830	BOLT, THROUGH	3							
22	1	119820-77340	PIECE, DISTANCE	1							
23	1	26014-080252	BOLT, M8X 25	1							
24	1	129136-77250	BOLT M 8X105	1							
25	1	26366-080002	NUT, M8	1							
26	1	129100-77330	ADJUSTER	1							
27	1	129136-77100	RELAY, SAFETY	1							
28	1	119650-77910	RELAY ASSY, GLOW	1							
31	1	119869-77910	TIMER	1							

Fig.19. TOOL & GASKET SET(OPTIONAL)



Remarks
(1)Optional parts.

(A)=3TNC78L-RTBA
(B)=
(C)=

(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719869-92600	GASKET SET	1							1
2	2	119811-01330	GASKET, HEAD T=1.4	1							
3	2	124240-01883	GASKET	3							
4	2	121850-51960	O-RING	1							
5	2	124160-11340	SEAL, VALVE STEM	3							
6	2	119625-11870	PROTECTOR, NOZZLE	3							
7	2	119625-11880	SEAT, NOZZLE	3							
8	2	119865-11310	GASKET, BONNET	1							
9	2	129150-77511	GASKET, AIR HEATER	1							
10	2	119810-12111	GASKET, MANIFOLD	1							
11	2	119810-13110	GASKET, EXH.MANIFOLD	1							
12	2	124950-11340	SEAL, VALVE STEM	3							
13	2	129150-32020	GASKET, PUMP	1							
14	2	129150-35041	GASKET	1							
15	2	129150-35111	GASKET	1							
16	2	129150-42020	GASKET, WATER PUMP	1							
17	2	129795-49551	GASKET	1							
18	2	129150-49811	GASKET, THERMOSTAT	1							
19	2	129150-01881	GASKET	1							
20	2	124701-11911	GASKET, SILENCER	1							
21	2	129155-52050	GASKET	1							
22	2	24311-000120	O-RING, 1AP12.0	3							
23	2	24311-000160	O-RING, 1AP16.0	3							
24	2	24311-000320	O-RING, 1AP32.0	1							
25	2	24341-000500	O-RING, 1AS50.0	1							
26	2	24341-000240	O-RING, 1AS24.0	1							
27	2	23414-100000	GASKET, 10X1.0	2							
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29	2	129150-49360	GASKET	1							
30	2	104200-59170	GASKET, 12	2							
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32	1	171001-93100	BOX, TOOL	1							
33	2	104200-92350	SCREW-DRIVER	1							
34	2	104200-92600	BOX, TOOL	1							
35	2	28110-100120	SPANNER, 10X12	1							
36	2	29110-140170	WRENCH 14X17	1							
37	2	28110-190220	SPANNER, 19X22	1							
38-1	2	28210-000140	OILER	1							
39	1	129400-92420	HONE, FLEX	1							1

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