

0CD10-M33901EN

PREFACE

1. This Parts Catalog is the 1st edition of 3TNC78L-RTBZ Diesel Engine for TAKEUCHI IND..

Pub. No. : 000Y00D3391
Published : September,1991

2. Model name

Engine model	Vehicle		Vehicle made by
	Products	Model name	
3TNC78L-RTBZ	—	—	TAKEUCHI IND.

Directions for the Parts Catalog.

1. This Parts Catalog shows both standard and optional parts.
2. Parts may change without prior notice.
3. The following is an example of the Parts Catalog format.

OCF10-G21601 29. FUEL INJECTION PUMP(W/BOOST)										
REF.	LEV.	PARTS NO.	DESCRIPTION	(A)	(B)	(C)	(D)	(E)	(F)	
1	1	729595-51390	FUEL INJECTION PUMP	1	1	1	1	1		1
1-1	1	729595-51391	FUEL INJECTION PUMP	1	1	1	1	1		N
		(A=E00185) (B=E00200)								
3	2	26022-060162	SCREW M 6X 16	9	9	9	9	9		
3-1	2	26022-060162	SCREW M 6X 16	4	4	4	4	4		K
		(A=E00156) (B=E00156) (C=E00156) (D=E00156) (E=E00156)								
4	2	129470-51040	CAMSHAFT	1	1	1	1	1		
5	2	122710-51050	BEARING, ROLLER	2	2	2	2	2		
6	2	129470-51060	RETAINER	1	1	1	1	1		

Remarks

(1) BOOST COMPEMSATOR TYPE. OPTIONAL PART, TO E00155,(4JH-DT, 4JH-DTZ

① Ref. No.

The Ref. No. listed may not be in accordance with the illustration Ref. No.

(Ex.) Illustration No.

List Ref No.

1 1 (Before change) → 1-1 (After change)

For interchangeable symbols N, R and K, illustrations for new parts may be abbreviated.

② Lev. (Level)

Level indication

The numbers below indicate the level of relativity towards the main part.

1 ---- Main parts (Assembly parts)

2 ---- Sub component included in " 1 ".

3 ---- Sub component included in " 2 ".

Note) Parts that are not for sale are partially illustrated but not listed.

③ Interchangeability Symbol

When a part change takes place, one of the following interchangeability symbols is indicated beside the part.

Symbol	Interchangeability	Contents note
N	Old $\xrightarrow{\text{Yes}}$ New No $\xrightarrow{\text{No}}$	New Part is interchangeable for Old Part but Old Part is not interchangeable for New Part.
Q	Old $\xrightarrow{\text{No}}$ New Yes $\xrightarrow{\text{Yes}}$	New Part is not interchangeable for Old Part but Old Part is interchangeable for New Part.
R	Old $\xrightarrow{\text{Yes}}$ New Yes $\xrightarrow{\text{Yes}}$	New/ Old Parts are both interchangeable.
S	Old $\xrightarrow{\text{No}}$ New No $\xrightarrow{\text{No}}$	New/ Old Parts are both not interchangeable.
W		Part newly added.
Z		Part discontinued.
F		Not interchangeable by a single part but interchangeable together with related parts.
K		Changes only for used parts quantities.

④ Effective Machine No.

When a part changes, the effective Machine No. will be indicated in the (A)-(F) column.

Product Symbol	Product No.	Product Symbol	Product No.
C	Clutch No. Compressor No.	F	Machine No. (Agricultural Equip.)
D	Drive No.	M	Machine No.
E	Engine No.		

Note 1) A date may follow the symbol. (Ex.) 1996.01

Note 2) "XXXXX" and "ZZZZZ" are for parts that could not be predicted or for engine models that could not be identified.

Note 3) (A=E00185) is the E (Engine Serial Number) for the column (A) model (in this case 4JH-DT) after the parts design change.

⑤ Remarks

Figures or alphabets (symbols) are entered in the remarks column.

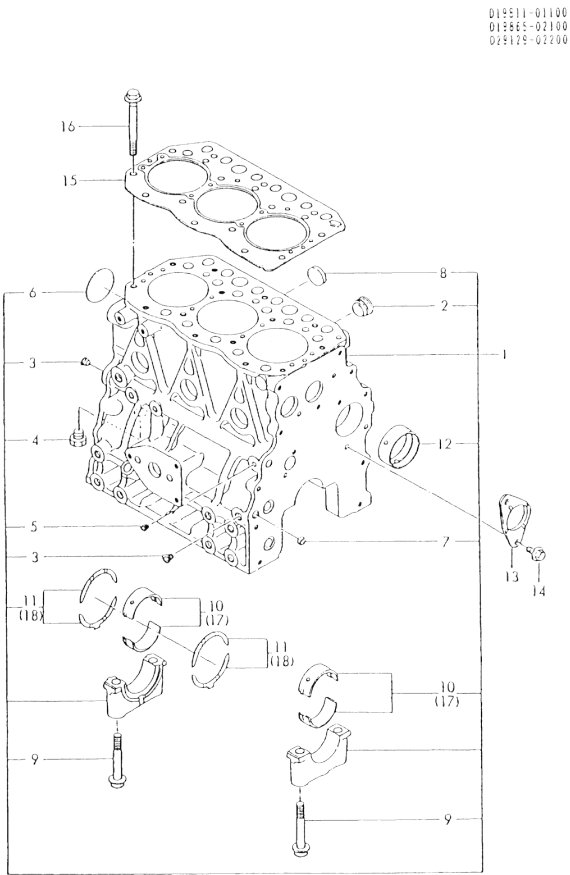
The comments (remarks) on parts that are indicated at the bottom of the illustration are the same symbols as those stated above.

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0CD10-M33901

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3TNC78L-RTBZ			
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6.	EXHAUST MANIFOLD & SILENCER		
7.	CAMSHAFT & DRIVE GEAR		
8.	CRANKSHAFT & PISTON		
9.	LUB. OIL PUMP		
10.	COOLING WATER SYSTEM		
11.	FUEL INJECTION PUMP		
12.	FUEL INJECTION VALVE		
13.	FUEL OIL STRAINER & PIPE		
14.	GOVERNOR		
15.	STARTING MOTOR		
16.	GENERATOR		
17.	TOOLS & GASKET SET		

OCD10-M33901 3TNC78L-RTBZ
Fig.1. CYLINDER BLOCK

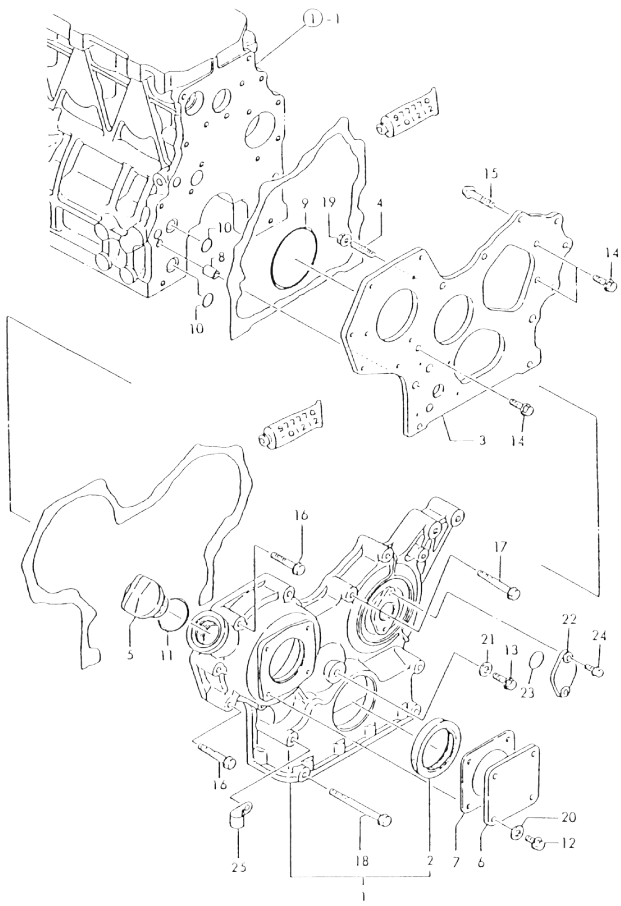


Remarks
(1) UNDER-SIZE(U.S=0.25)PART.
(2) OVER-SIZE(O.S=0.25)PART.

				OCD10-M33901 Fig.1							
				(A)=3TNC78L-RTBZ	(D)=						
				(B)=	(E)=						
				(C)=	(F)=						
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719811-01560	BLOCK ASSY, CYLINDER	1							
2	2	171051-01921	PLUG, NPTF1	1							
3	2	124160-01910	PLUG, PT1/4	2							
4	2	23887-120002	PLUG, 12	1							
5	2	23871-010000	PLUG, R01	1							
6	2	27231-500000	PLUG 50	1							
7	2	27241-120000	PLUG, 12	2							
8	2	27241-300000	PLUG 30	6							
9	2	119620-02020	BOLT, METAL CAP	8							
10	2	719810-02800	BEARING, MAIN	4							
11	2	719810-02930	BEARING, THRUST	2							
12	2	129795-02411	BUSH, CAMSHAFT	1							
13	1	129150-02450	BEARING, THRUST	1							Z
(A=E0000)											
14	1	26106-080162	BOLT, M8X 16 PLATED	2							
15	1	119811-01330	GASKET, HEAD T=1.4	1							
16	1	119810-01200	BOLT, HEAD	14							
17	1	119810-02870	BEARING, 0.25 US	4							1
18	1	119810-02940	BEARING, THRUST 0.25	2							2

OCD10-M33901 3TNC78L-RTBZ
Fig.2. GEAR HOUSING

029400-01220
025100-01210



OCD10-M33901 Fig.2										
(A)=3TNC78L-RTBZ										
(D)=										
(E)=										
(F)=										
Q'ty										
(A) (B) (C) (D) (E) (F)										
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I R
1	1	129400-01590	CASE ASSY, GEAR	1						W
(A=E03851)										
2	2	129795-01800	SEAL, OIL	1						
3	1	129400-01520	FLANGE, GEAR CASE	1						
4	1	121450-01560	STUD, M8X22	3						
5	1	124160-01751	COVER, FILLER	1						
6	1	124240-01871	COVER	1						
7	1	124240-01882	GASKET	1						
7-1	1	124240-01883	GASKET	1						N
(A=E03851)										
8	1	129795-01950	PIPE, KNOCK L=18	2						
9	1	121850-51960	O-RING	1						
10	1	24311-000160	O-RING, 1AP16.0	2						
11	1	24311-000320	O-RING, 1AP32.0	1						
12	1	26106-080122	BOLT, M8X 12 PLATED	4						
13	1	26106-080162	BOLT, M8X 16 PLATED	1						
14	1	26106-080162	BOLT, M8X 16 PLATED	3						
15	1	26106-080202	BOLT, M8X 20 PLATED	2						
16	1	26106-080452	BOLT, M8X 45 PLATED	6						
17	1	26106-080552	BOLT, M8X 55 PLATED	3						
18	1	26106-080852	BOLT, M8X 85 PLATED	4						
19	1	26366-080002	NUT, M8	3						
20	1	43400-500410	SEAL WASHER 8	4						
21	1	43400-500410	SEAL WASHER 8	1						
22	1	121023-01550	COVER	1						
23	1	24341-000240	O-RING, 1AS24.0	1						
24	1	26106-060122	BOLT, M6X 12 PLATED	2						
25	1	129150-03100	RETAINER, PIPE	1						W
(A=E03851)										

No:Old

New

Q:Old

New

R:Old

New

S:Old

New

W:Add

Z:Discontinued

F:Interchangeable by set

K:Q'ty Change

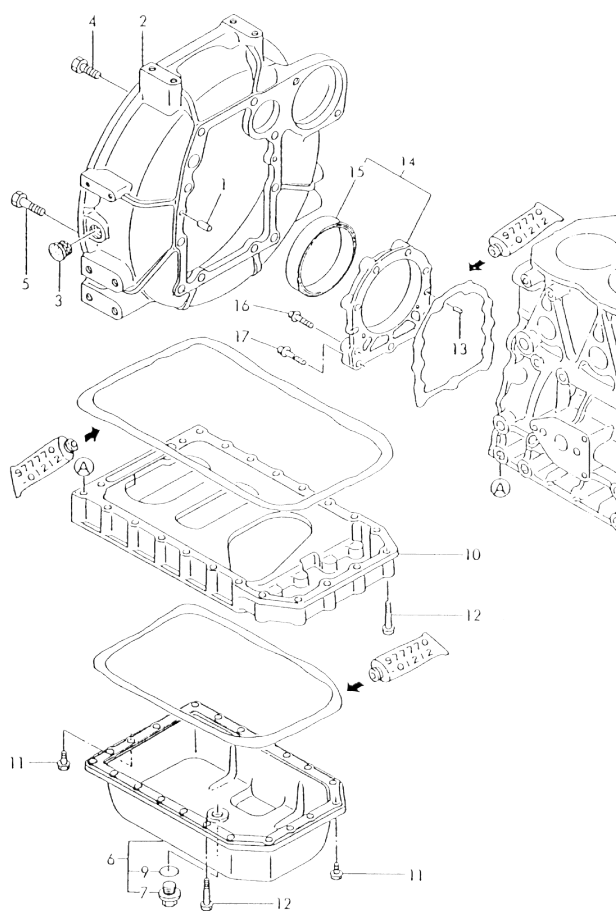
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Fig.3. FLYWHEEL HOUSING & OIL SUMP

(D)=
(E)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129100-01580	PIN, M8X16	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	719810-01541	SUMP ASSY, OIL	1							
6-1	1	119810-01790	SUMP ASSY, OIL	1							N
		(A=EXXX)									
7	2	171301-01640	PLUG, 22	1							
9	2	24341-000240	O-RING, 1AS24.0	1							
10	1	119810-01730	SPACER, OIL SUMP	1							
11	1	26106-080162	BOLT, M8X 16 PLATED	6							
12	1	26106-080452	BOLT, M8X 45 PLATED	22							
13	1	129100-01580	PIN, M8X16	2							
14	1	119860-01640	CASE ASSY, OIL SEAL	1							W
		(A=E03851)									
15	2	119810-01780	SEAL, 769310	1							
16	1	26106-080302	BOLT, M8X 30 PLATED	6							
17	1	26106-080352	BOLT, M8X 35 PLATED	3							



N:Old ^{Yes}/_{No} New. Q:Old ^{No}/_{Yes} New. R:Old ^{Yes}/_{Yes} New. S:Old ^{No}/_{No} New. W:Add. Z:Discontinued. F:Interchangeable by set. K:Qty Change

Fig.4. CYLINDER HEAD

(D)=
(E)=

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

This diagram illustrates the assembly of a mechanical component, possibly a pump or engine part, through several stages. The main assembly is shown at the bottom, with various sub-components and their assembly sequence indicated by numbers 1 through 34. The assembly includes a main housing (1), a central shaft (15), and various internal components like valves (2, 3, 4, 5, 6, 7, 8) and a piston (9). The assembly is shown in a disassembled state to illustrate the sequence of parts to be added. The parts are numbered 1 through 34, with some parts having multiple instances (e.g., 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34). The diagram is a technical drawing showing the exploded view of the assembly.

N:Old $\xrightarrow{\text{Yes}} \text{New. Q:Old} \xleftarrow{\text{No}} \text{New. R:Old} \xleftarrow{\text{Yes}} \text{New. S:Old} \xleftarrow{\text{No}} \text{New. W:Add. Z:Discontinued. F:Interchangeable by set. K:Q'ty Change}$
 ++ CONTINUE ++
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Remarks
(1) REPAIR PART.

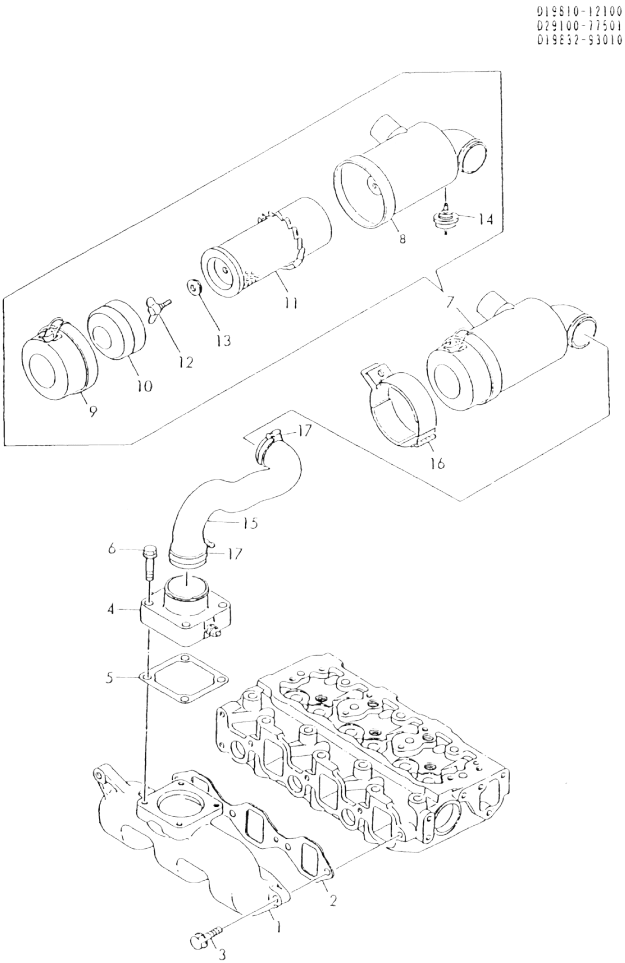
Fig.4. CYLINDER HEAD

This diagram illustrates the exploded view of a mechanical assembly, likely a pump or engine component. The assembly is shown in three main sections, with parts numbered 1 through 49. The top section shows a cylindrical component (35) with various fittings (40, 36, 38, 39, 45, 46, 37, 41, 42) and a lever arm (47, 49). The middle section shows a central shaft assembly (29, 30, 20, 22, 24, 23, 21, 25, 19) with various seals and bearings (17, 16, 24, 23, 21, 25, 19). The bottom section shows a main housing (1) with various internal components (2, 3, 31, 28, 26, 27, 4, 5, 8, 7, 15, 6, 32, 33, 48, 3) and a lever arm (47, 49). The diagram shows the assembly sequence and the relative positions of the various components.

[illegible]

OCD10-M33901 3TNC78L-RTBZ

Fig.5. SUCTION MANIFOLD & AIR CLEANER



D19810-12100
D29100-77501
D19832-53010

OCD10-M33901 Fig.5

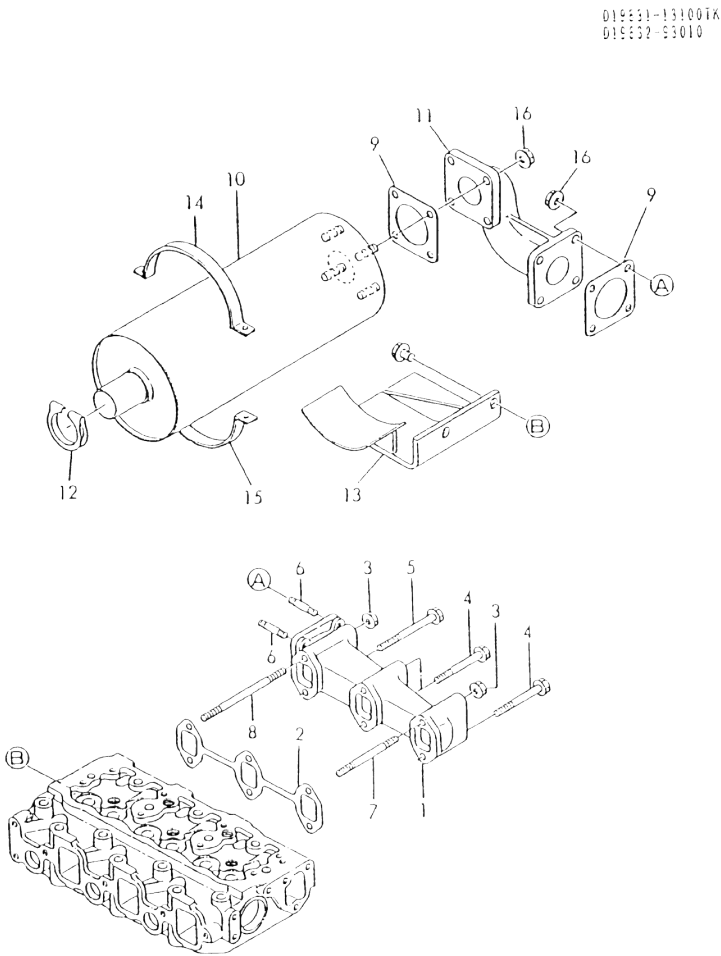
(A)=3TNC78L-RTBZ
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119810-12100	MANIFOLD, AIR INTAKE	1							
2	1	119810-12110	GASKET, MANIFOLD	1							
2-1	1	119810-12111	GASKET, MANIFOLD	1						N	
(A=E03851)											
3	1	26106-080252	BOLT, M8X 25 PLATED	4							
4	1	129120-77501	HEATER	1							
5	1	129150-77510	GASKET	1							
5-1	1	129150-77511	GASKET	1						N	
(A=E03851)											
6	1	26106-080352	BOLT, M8X 35 PLATED	4							
7	1	119832-12500	CLEANER ASSY, AIR	1							
8	2	119832-12650	CASE ASSY	1							
9	2	119831-12660	PAN ASSY, DUST	1							
10	2	121454-12700	RETAINER, ELEMENT	1							
11	2	121454-12510	ELEMENT	1							
12	2	124064-12680	BOLT	1							
13	2	124064-12690	WASHER	1							
14	2	121262-12800	INDICATOR	1							
15	1	119831-12550	PIPE, SUCTION	1							
16	1	119831-12560	SUPPORT, AIR CLEANER	1							
17	1	23000-060000	CLAMP, 60	2							

OCD10-M33901 3TNC78L-RTBZ

Fig.6. EXHAUST MANIFOLD & SILENCER



OCD10-M33901 Fig.6

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

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

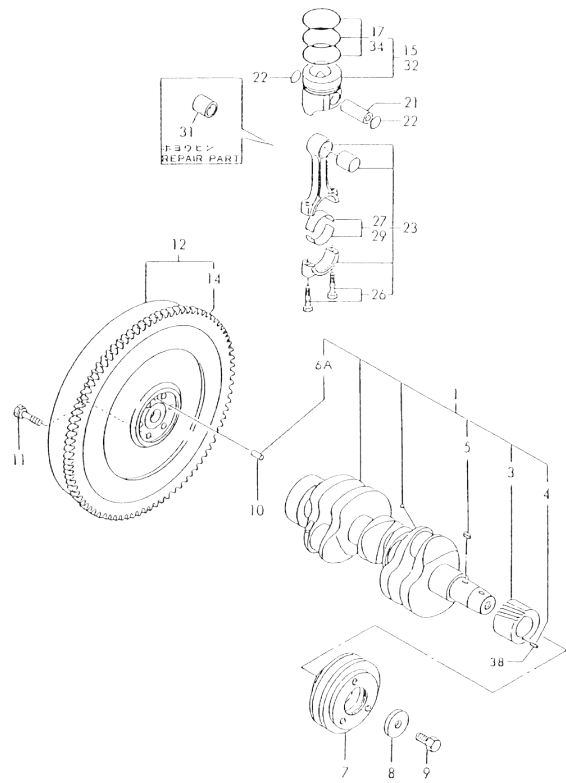
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119840-13100	MANIFOLD, EXHAUST	1							
2	1	119810-13110	GASKET	1							
3	1	194990-22050	NUT, M8	2							
4	1	26106-080602	BOLT, M8X 60 PLATED	3							
5	1	26106-080802	BOLT, M8X 80 PLATED	1							
6	1	26216-080222	STUD, M8X 22	4							
7	1	26216-080602	STUD, M8X 60	1							
8	1	26216-080802	STUD, M8X 80	1							
9	1	124701-11910	GASKET, SILENCER	2							
9-1	1	124701-11911	GASKET, SILENCER	2						N	
(A=E03851)											
10	1	119632-13500	SILENCER	1							
11	1	119831-13550	PIPE	1							
12	1	124664-13580	CLAMP	1							
13	1	119831-13650	STAY, SILENCER	1							
14	1	119888-13670	BAND, SILENCER	1							
15	1	119888-13680	BAND, SILENCER	1							
16	1	194990-22050	NUT, M8	8							

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 & DRIVE GEAR

[illegible]

OCD10-M33901 3TNC78L-RTBZ
Fig.8. CRANKSHAFT & PISTON



015811-21100
025400-21200
015810-21350
015811-21100
015865-23100

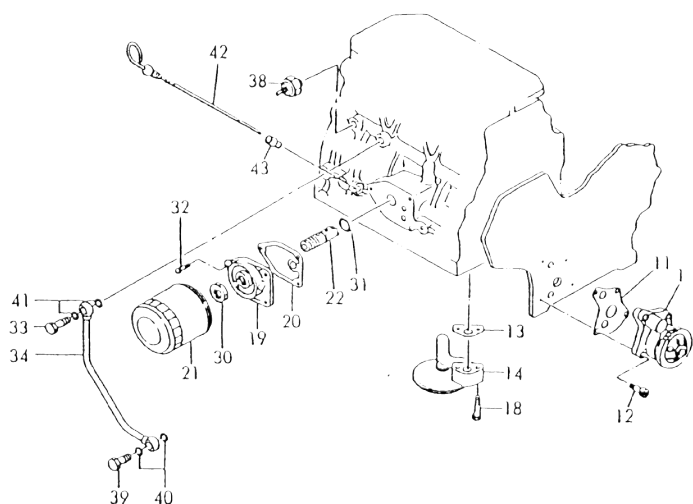
OCD10-M33901 Fig.8
(A)=3TNC78L-RTBZ
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719811-21700	CRANKSHAFT ASSY	1							
3	2	129150-21200	GEAR, CRANKSHAFT	1							
4	2	22351-040010	PIN, SPRING 4.0X10	1						Z	
(A=E0000)											
5	2	22512-070140	KEY, 7X 14	1							
6A	2	129100-01580	PIN, M8X16	1						W	
(A=E0000)											
7	1	171301-21650	V-PULLEY	1							
8	1	129795-21661	WASHER	1							
9	1	121850-21680	BOLT	1							
10	1	129100-01580	PIN, M8X16	1						Z	
(A=E0000)											
11	1	121111-21501	BOLT, FLYWHEEL	6							
12	1	171325-21590	FLYWHEEL ASSY	1							
14	2	119865-21600	GEAR, RING	1							
15	1	119811-22080	PISTON ASSY	3							
17	2	729100-22500	RING SET, PISTON	3							
21	1	104200-22300	PIN, PISTON	3							
22	1	129792-22400	CIRCLIP, 23	6							
23	1	719810-23700	ROD ASSY, CONNECTING	3							
23-1	1	719810-23100	ROD ASSY, CONNECTING	3						N	
(A=E03851)											
26	2	119810-23200	BOLT, CONNECTING ROD	6							
27	2	719810-23600	BEARING, CRANK PIN	3							
27-1	2	119810-23600	BEARING, CRANK PIN	3						N	
(A=E0000)											
29	1	119810-23610	BEARING, 0.25 US	3							1
31	1	119810-23910	BEARING, PISTON PIN	3							2
32	1	719811-22900	PISTON ASSY, 0.25 OS	3							3
34	2	729555-22950	RING SET, 0.25 OS	3							3
38	1	22351-040010	PIN, SPRING 4.0X10	1						W	
(A=E0000)											

Remarks
(1) UNDER-SIZE(U.S=0.25)PART.
(2) REPAIR PART.
(3) OVER-SIZE(O.S=0.25)PART.

Fig.9. LUB. OIL PUMP

019885-32100
019810-34100
019810-35100
029100-35200
019865-39110
019600-39100



0CD10-M33901 Fig.9

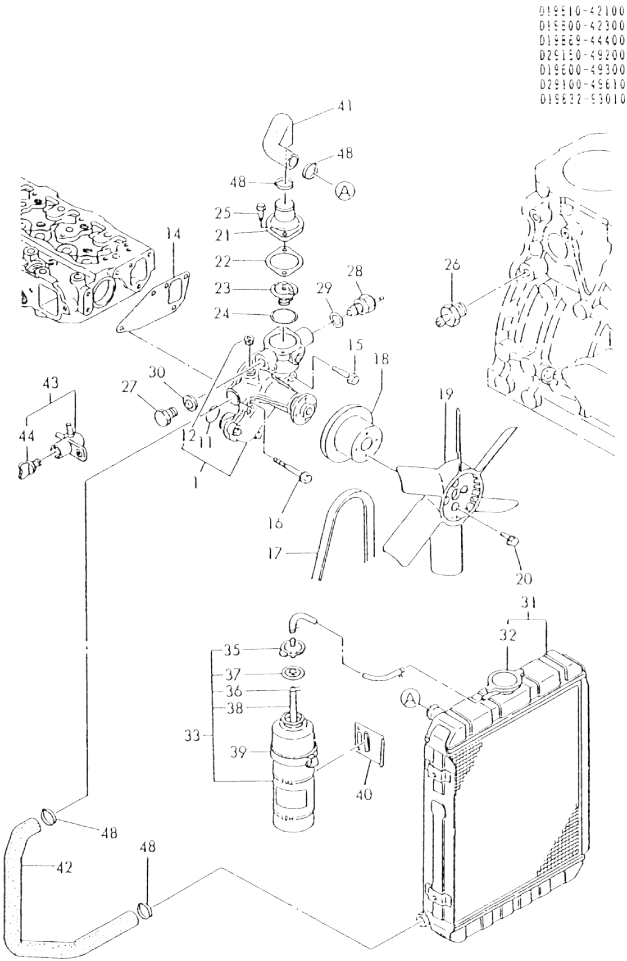
(A)=3TNC78L-RTBZ (D)=
(B)= (E)=
(C)= (F)=

No.	Lev.	Parts No.	Description	(F) Qty						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	1	129150-35040	GASKET	1							
	1	129150-35041	GASKET	1							N
(A=E03851)											
14	1	119810-35400	PIPE ASSY, OIL INLET	1							
18	1	26116-080352	BOLT, M8X 35 PLATED	2							
18-1	1	26106-080352	BOLT, M8X 35 PLATED	2							N
(A=E000X)											
19	1	129150-35101	BRACKET, STRAINER	1							
20	1	129150-35110	GASKET	1							
20-1	1	129150-35111	GASKET	1							N
(A=E03851)											
21	1	129150-35150	FILTER 90X80L	1							
22	1	119865-35300	VALVE ASSY, CONTROL	1							
30	1	129150-35350	NUT	1							
31	1	24311-000160	O-RING, 1AP16.0	1							
32	1	26106-080202	BOLT, M8X 20 PLATED	3							
33	1	124160-39140	BOLT, PIPE JOINT M10	1							
34	1	119810-39200	PIPE ASSY, OIL	1							
38	1	124160-39450	SWITCH, 0.5KG	1							
39	1	124550-59820	BOLT, PIPE JOINT M8	1							
40	1	23414-080000	GASKET, 8X1.0	2							
40-1	1	43400-500410	SEAL WASHER 8	2							N
(A=E03851)											
41	1	23414-100000	GASKET, 10X1.0	2							
42	1	119600-34800	DIPSTICK, OIL	1							
43	1	121520-34810	GUIDE, DIPSTICK	1							

N:Old ^{YES}/_{NO} New. Q:Old ^{NO}/_{YES} New. R:Old ^{YES}/_{YES} New. S:Old ^{NO}/_{NO} New. W:Add. Z:Discontinued. F:Interchangeable by set. K:Q'ty Change

OCD10-M33901 3TNC78L-RTBZ

Fig.10. COOLING WATER SYSTEM

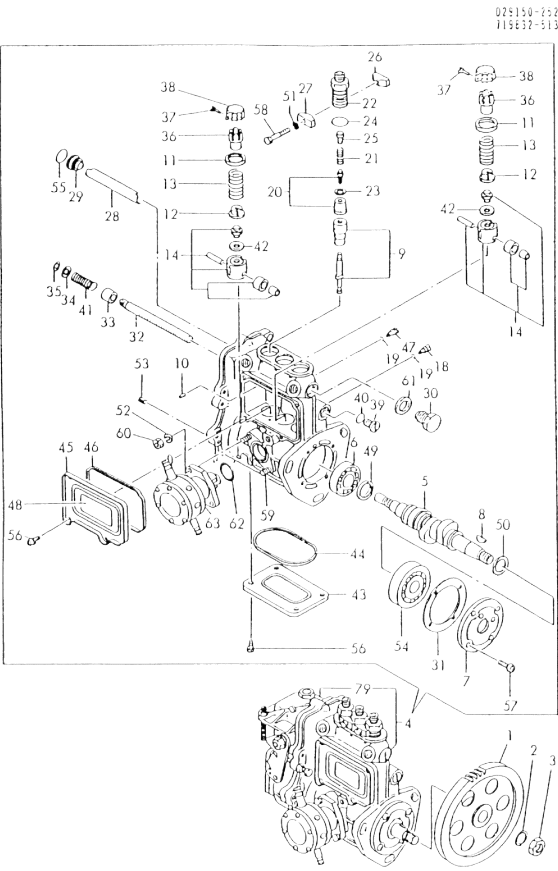


OCD10-M33901 Fig.10									
(A)=3TNC78L-RTBZ									
(D)=									
(E)=									
(F)=									
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)
1	1	119810-42000	PUMP ASSY, WATER	1					
1-1	1	119810-42001	PUMP ASSY, WATER	1					N
(A=E03851)									
11	2	129150-42320	O-RING	1					
12	2	23871-030000	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	2					
16-1	1	26106-080552	BOLT, M8X 55 PLATED	3					K
(A=E03851)									
17	1	121236-42290	V-BELT, A39	1					
18	1	129403-42380	V-PULLEY, D=110	1					
19	1	119620-44741	FAN, COOLING D310	1					
20	1	26014-060162	BOLT, M6X 16	4					
21	1	129350-49530	COVER, THERMOSTAT	1					
22	1	129795-49550	GASKET	1					
22-1	1	129795-49551	GASKET	1					N
(A=E03851)									
23	1	129155-49800	THERMOSTAT, 71	1					
24	1	129150-49810	GASKET, THERMOSTAT	1					
24-1	1	129150-49811	GASKET, THERMOSTAT	1					N
(A=E03851)									
25	1	26106-080202	BOLT, M8X 20 PLATED	2					
26	1	121550-49111	JOINT, PT1/4	1					
27	1	121450-42450	PLUG, M16	1					
28	1	121250-44901	SWITCH, 110	1					
29	1	124465-44950	GASKET, 16	1					
30	1	124465-44950	GASKET, 16	1					
31	1	119831-44500	RADIATOR	1					
32	2	124450-44590	CAP, RADIATOR	1					
33	1	171064-44510	TANK ASSY, SUB	1					
35	2	121450-44531	CAP	1					
36	2	124450-44560	RETAINER	1					
37	2	121470-44581	GASKET	1					
38	2	23065-070225	PIPE 7X 225	1					
39	1	124450-44550	BAND	1					
40	1	121256-44600	BRACKET, SUB TANK	1					
41	1	119280-49010	PIPE, WATER	1					
42	1	119632-49020	PIPE, WATER	1					
43	1	129150-49100	COCK ASSY, 3-WAY	1					
44	2	129150-49080	COCK, DRAIN	1					
48	1	23010-038000	CLAMP, 38	4					

Fig.11. FUEL INJECTION PUMP

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

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



Remarks
(1) GOVERNOR(FIG.14) IS INCORPORATED
IN THIS FUEL INJECTION PUMP ASSY
(REF.NO.4).

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129150-25900	GEAR, PUMP	1							
2	1	22217-120000	WASHER, SPRING 12	1							
3	1	26716-120002	NUT, M12	1							
4	1	719832-51360	PUMP ASSY, INJECTION	1							1
5	2	119810-51040	CAMSHAFT	1							
6	2	129155-51050	BEARING, 17BM001D	1							
7	2	129155-51060	SUPPORT, CAMSHAFT	1							
8	2	122710-51090	KEY	1							
9	2	129400-51100	PLUNGER ASSY	3							
10	2	129155-51140	PIN	3							
11	2	174307-51170	RETAINER, SPRING A	3							
12	2	129155-51180	RETAINER, SPRING	3							
13	2	124950-51190	SPRING, PLUNGER	3							
14	2	129155-51200	TAPPET ASSY	3							
18	2	129155-51270	STOPPER, TAPPET	3							
19	2	129155-51280	O-RING, S6	3							
20	2	128170-51300	VALVE ASSY, DELIVERY	3							
21	2	129155-51320	SPRING, DELIVERY	3							
22	2	129155-51340	RETAINER	3							
23	2	124550-51350	GASKET, DELIVERY	3							
24	2	124550-51370	O-RING	3							
25	2	129155-51370	STOPPER, VALVE	3							
26	2	129155-51380	STOPPER	2							
27	2	129155-51390	STOPPER	2							
28	2	129155-51400	DEFLECTOR	1							
29	2	129155-51410	BOLT	1							
30	2	129155-51420	PLUG, M16	1							
31	2	129155-51450	SHIM SET, ADJUSTING	1							
32	2	129155-51500	RACK, CONTROL	1							
33	2	129155-51521	BUSH, RACK	1							
34	2	129155-51530	SPACER	1							
35	2	129155-51540	CIRCLIP	1							
36	2	129155-51550	PINION, CONTROL	3							
37	2	122117-51560	SCREW	3							
38	2	174307-51560	PINION	3							
39	2	129155-51570	PLUG, M12	1							
40	2	129155-51580	O-RING	1							
41	2	129155-51591	SPRING, RACK	1							
42	2	129155-51600	SHIM SET, ADJUSTING	3							
43	2	129155-51700	COVER	1							
44	2	129155-51710	GASKET	1							
45	2	129155-51750	COVER	1							
46	2	129155-51760	GASKET	1							
47	2	129155-51790	STOOPER, RACK	1							
48	2	129156-51910	LABEL, CAUTION	1							
49	2	129155-51930	SPACER, T=3.25	1							
50	2	129155-51940	SPACER, T=1.5	1							
51	2	22217-050000	WASHER, SPRING 5	2							Z
(A)=E00X											
52	2	22217-060000	WASHER, SPRING 6	2							
53	2	22351-050010	PIN, SPRING 5.0X10	2							

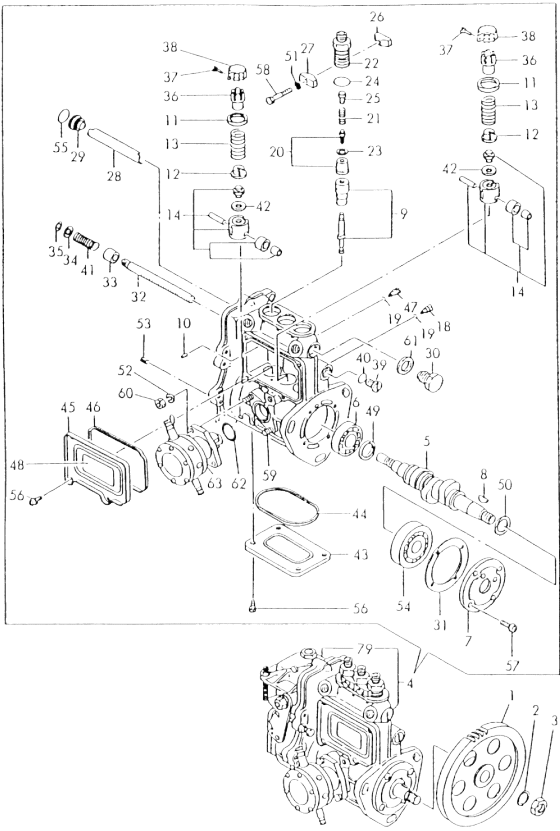
N:Old $\frac{100}{100}$ New, Q:Old $\frac{100}{100}$ New, R:Old $\frac{100}{100}$ New, S:Old $\frac{100}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
++ CONTINUE ++
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Fig.11. FUEL INJECTION PUMP

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

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
54	2	24101-063034	BEARING, BALL 6303	1							
55	2	24341-000160	O-RING, 1AS16.0	1							
56	2	26022-050102	SCREW, M5X10	8							
57	2	26022-060162	SCREW, M6X16	4							
58	2	26116-050302	BOLT, M5X 30 PLATED	2							
59	2	129155-51020	STUD	2							
60	2	26716-060002	NUT, M6	2							
61	2	43400-500490	SEAL WASHER 16	1							
62	2	129155-52050	GASKET	1							
63	2	129100-52100	PUMP ASSY, FUEL FEED	1							



029150-75260
715232-51360

Remarks
(1) GOVERNOR(FIG.14) IS INCORPORATED
IN THIS FUEL INJECTION PUMP ASSY
(REF.NO.4).

Fig.12. FUEL INJECTION VALVE

[illegible]

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

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

 $Q^{\#}$

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	729500-53200	VALVE ASSY,INJECTION	3							
2	2	129500-53050	VALVE ASSY,INJECTION	3							
3	2	114250-53080	NUT, NOZZLE D16.95	3							
5	2	114250-53120	SPRING, NOZZLE	3							
6	2	114250-53130	SEAT, SPRING	3							
7	2	114250-53140	PLATE	3							
8	2	114250-53210	PIN	6							
9	2	114250-53400	SHIM SET	3							
10	1	129150-59120	RETAINER, PIPE	1							
11	2	129150-59130	BOLT, M4X12	2							
13	1	119810-59810	PIPE ASSY, INJECTION	1							
14	1	119810-59820	PIPE ASSY, INJECTION	1							
15	1	119810-59830	PIPE ASSY, INJECTION	1							

N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change

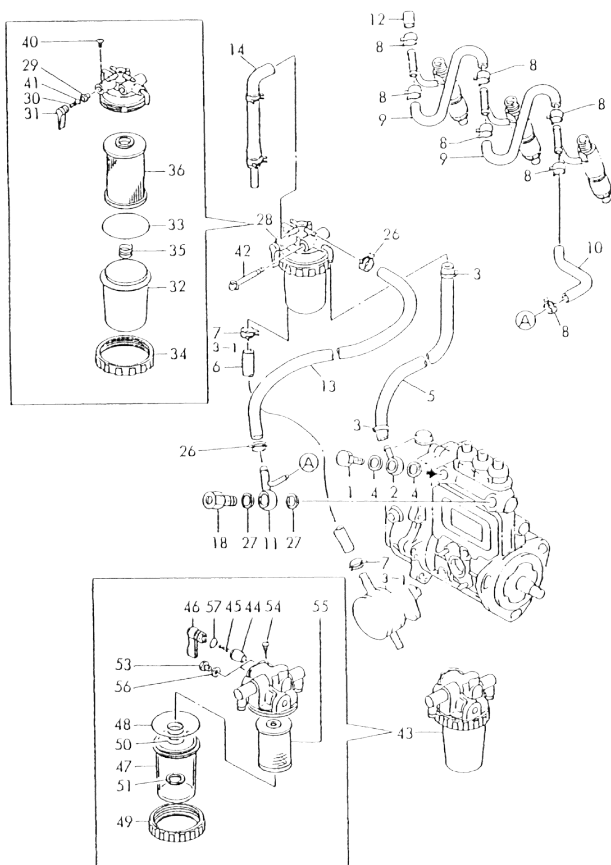
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Fig.13. FUEL OIL STRAINER & PIPE

(D)=
(E)=

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

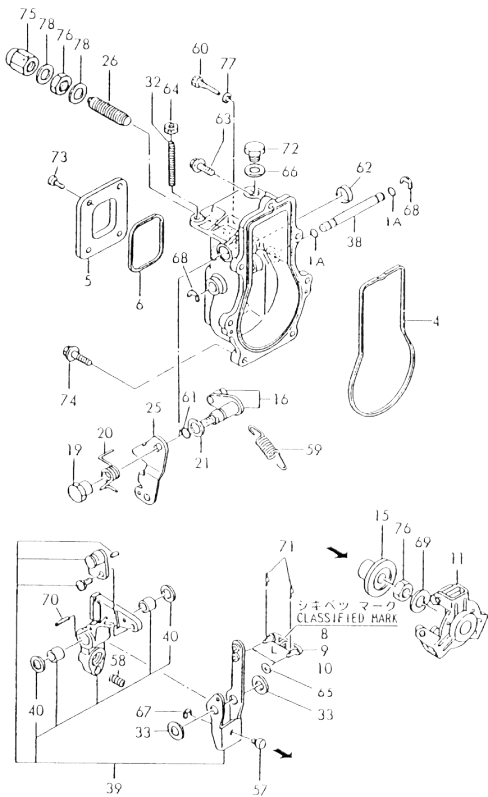
019810-55111
029100-55211
019840-55301
019852-55010



No.	Lev.	Parts No.	Description	(A)	(B)	(C)	Qty (D)	(E)	(F)	I	R
1	1	103854-39140	BOLT, PIPE JOINT	1							W
		(A=E000X)									
2	1	101304-59020	JOINT, PIPE 12	1							
3	1	124766-59050	CLIP, HOSE 12	2							
3-1	1	124766-59050	CLIP, HOSE 12	4							K
		(A=E03851)									
4	1	104200-59170	GASKET, 12	2							
5	1	129555-59510	PIPE, D13/7.5X180	1							
6	1	129255-59580	PIPE, FUEL	1							
6-1	1	105025-59530	PIPE, FUEL D13X400	1							N
		(A=E03851)									
7	1	23000-013000	CLAMP, 13	2							Z
		(A=E03851)									
8	1	124066-59100	CLIP, HOSE 8	7							
9	1	121250-59550	PIPE, FUEL D8X120	2							
10	1	119840-59560	PIPE, FUEL RETURN	1							
11	1	119840-59570	JOINT	1							
12	1	129150-59580	CAP	1							
13	1	129255-59580	PIPE, FUEL	1							
14	1	119840-59601	BEND	1							
18	1	129100-59951	VALVE ASSY, CHECK	1							
26	1	23000-013000	CLAMP, 13	2							
26-1	1	124766-59050	CLIP, HOSE 12	2							R
		(A=1991.06)									
27	1	23414-120000	GASKET, 12X1.0	2							
28	1	119810-55621	FILTER ASSY, FUEL	1							
29	2	104200-55321	VALVE, TAPER	1							
30	2	104200-55330	SPRING, VALVE	1							
31	2	119810-55340	LEVER	1							
32	2	121254-55510	COVER	1							
33	2	102103-55520	O-RING	1							
34	2	110250-55610	RING, RETAINING	1							
35	2	121250-55620	SPRING	1							
36	2	119810-55650	ELEMENT	1							
40	2	104200-55750	SCREW, M4	1							
41	2	24311-240100	O-RING, 1AP10A	1							
42	1	26014-080702	BOLT, M8X 70	1							
43	1	129335-55700	SEPARATOR ASSY, WATER	1							
44	2	104200-55321	VALVE, TAPER	1							
45	2	104200-55330	SPRING, VALVE	1							
46	2	104200-55341	HANDLE	1							
47	2	124064-55510	COVER	1							
48	2	102103-55520	O-RING	1							
49	2	110250-55610	RING, RETAINING	1							
50	2	121257-55720	SPRING	1							
51	2	121257-55731	FLOAT	1							
53	2	101720-55750	PLUG, 6	2							
54	2	104200-55750	SCREW, M4	1							
55	2	171081-55910	SCREEN	1							
56	2	23418-060000	GASKET, 6X1.0	2							
57	2	24311-240100	O-RING, 1AP10A	1							

N:Old $\xrightarrow{\text{Yes}} \text{New}$, Q:Old $\xrightarrow{\text{No}} \text{New}$, R:Old $\xrightarrow{\text{Yes}} \text{New}$, S:Old $\xrightarrow{\text{No}} \text{New}$, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change

Fig.14. GOVERNOR



715633-11360

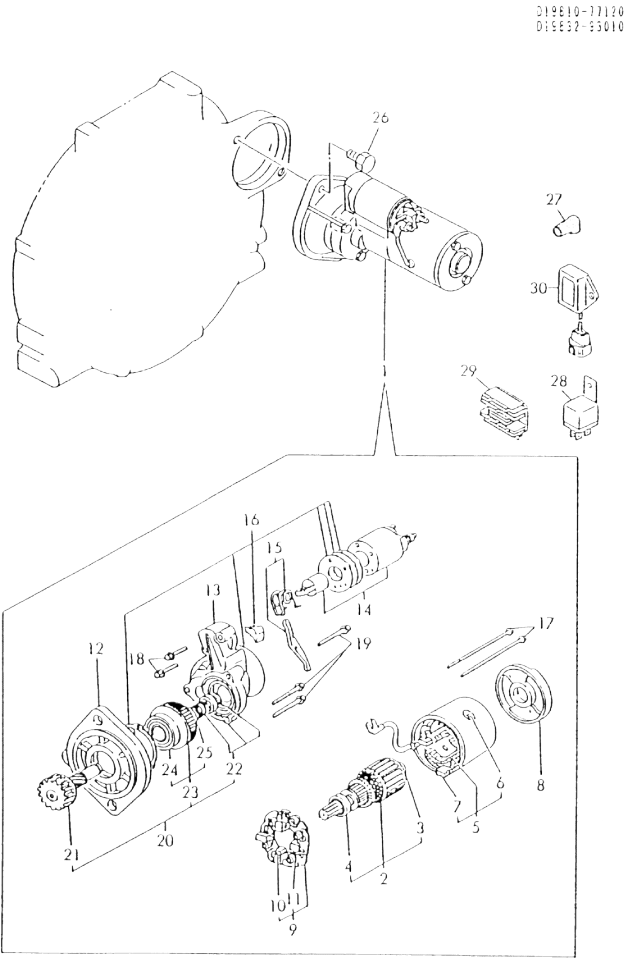
(A)=3TNC78L-RTBZ
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1A	1	129155-51280	O-RING, S6	2							
4	1	129155-61050	GASKET	1							
5	1	129155-61060	COVER, GOVERNOR CASE	1							
6	1	129155-61070	GASKET	1							
8	1	129155-61120	LINK, L=30 MARK 0	1							1
9	1	129155-61130	LINK, L=31 MARK 1	1							1
10	1	129155-61140	LINK, L=30.5 MARK 05	1							1
11	1	129155-61201	WEIGHT ASSY,GOVERNOR	1							
15	1	129155-61341	SLEEVE	1							
16	1	129100-61400	SHAFT ASSY	1							
19	1	129255-61410	NUT, LOCK	1							
20	1	129255-61420	SPRING, RETURN	1							
21	1	129155-61430	SPACER	1							
25	1	129100-61440	LEVER, CONTROL	1							
26	1	129100-61450	LIMITER ASSY, FUEL	1							
32	1	129155-61450	BOLT, LIMITER	1							
33	1	129155-61480	SPACER ASSY	2							
38	1	129155-61490	SHAFT	1							
39	1	129500-61500	LEVER ASSY, GOVERNOR	1							
40	2	174307-51700	SHIM SET	2							
57	1	129155-61540	SHIFTER	1							
58	1	129100-61650	SPRING, CONTROLLER	1							
59	1	171353-61710	SPRING, GOVERNOR	1							
60	1	129155-61810	PIN	1							
61	1	129155-61830	O-RING, S10	1							
62	1	129100-61851	PLUG	1							
63	1	129155-61950	BOLT	1							
64	1	124550-66370	NUT, M6	1							
65	1	22117-040000	WASHER, 4	1							
66	1	22190-100000	WASHER, SEAL 10	1							
66-1	1	43400-500430	SEAL WASHER 10	1							N
(A=E03851)											
67	1	22272-000040	RING, E- 4	1							
68	1	22272-000060	RING, E- 6	2							
69	1	22287-120000	WASHER, 12	1							
70	1	22351-030016	PIN, SPRING 3.0X16	1							
71	1	22360-040000	PIN, SNAP 4	2							
71-1	1	22372-040000	PIN, SNAP 4	2							R
(A=E03851)											
72	1	23887-100002	PLUG, 10	1							
73	1	26022-050102	SCREW, M5X10	4							
74	1	26106-060202	BOLT, M6X20 PLATED	6							
75	1	26687-120002	NUT, CAP M12	1							
76	1	26776-120002	NUT, LOCK M12	2							
77	1	43400-500390	SEAL WASHER 6	1							
78	1	43400-500450	SEAL WASHER 12	2							

Remarks
(1) SELECTIVE PARTS : CERTAIN THE CLASSIFICATION MARK, THEN PLACE YOUR ORDER.(ILLUSTRATION)

OCD10-M33901 3TNC78L-RTBZ
Fig.15. STARTING MOTOR



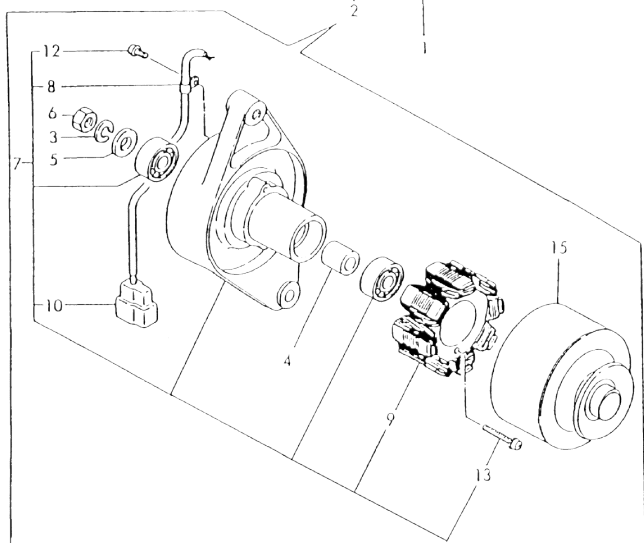
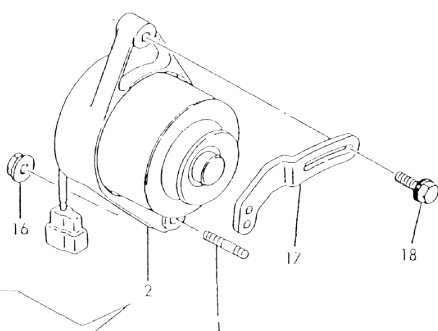
OCD10-M33901 Fig.15									
(A)=3TNC78L-RTBZ									
(D)=									
(E)=									
(F)=									
Q'ty									
I R									
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)
1	1	124976-77011	STARTER, S114-349A	1					
2	2	X211451007	ARMATURE ASSY	1					
3	3	X211415502	BEARING, BALL	1					
4	3	X211425502	BEARING, BALL	1					
5	2	X211472106	COIL ASSY, FIELD	1					
6	3	X21148215	SCREW, POLE CORE	4					
7	3	X21143315	BRUSH (+)	2					
8	2	X211483003	COVER	1					
9	2	X211429007	HOLDER ASSY, BRUSH	1					
10	3	X21148314	SPRING, BRUSH	4					
11	3	X211459002	BRUSH (-)	2					
12	2	X211476504	HOUSING ASSY, GEAR	1					
13	2	X211414501	HOUSING, CENTER	1					
14	2	X211447007	SWITCH, MAGNETIC	1					
15	2	X21146012	LEVER, SHIFT	1					
16	2	X211448004	COVER KIT	1					
17	2	X211468005	BOLT, THROUGH	2					
18	2	X21145866	BOLT	2					
19	2	X21142867	BOLT	3					
20	2	X211415505	CLUTCH ASSY	1					
21	3	X211495009	SHAFT	1					
22	3	X211429006	STOPPER SET	1					
23	3	X211425505	CLUTCH ASSY	1					
24	4	X211435502	BALL BEARING	1					
25	4	X211445502	BALL BEARING	1					
26	1	26116-120252	BOLT, M12X 25 PLATED	2					
27	1	124550-77030	COVER, TERMINAL	1					
28	1	119247-77100	RELAY, SAFETY	1					
29	1	119640-77711	LIMITER, CURRENT	1					
30	1	121522-77721	INDICATOR	1					

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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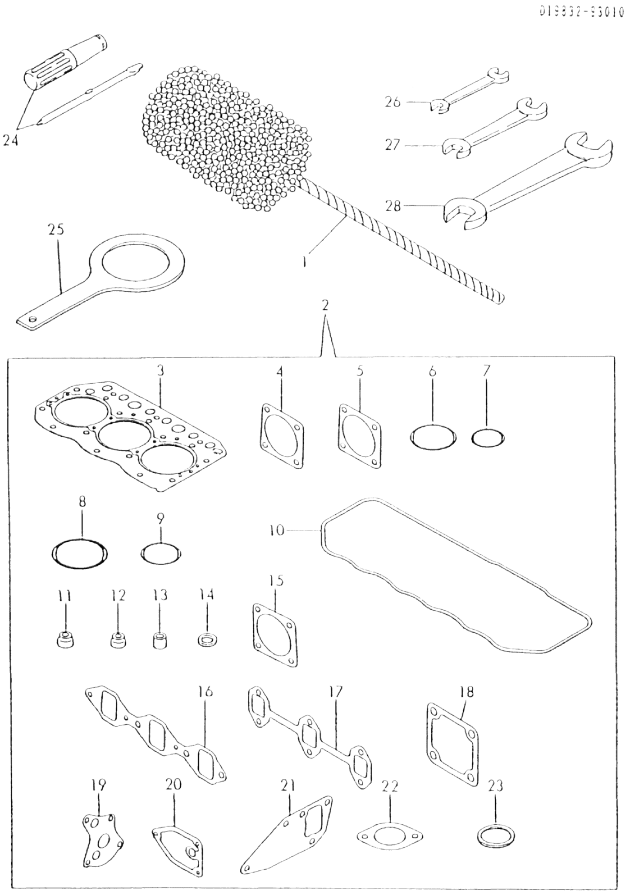
Fig.16. GENERATOR

029151-77200
019810-77310



				(A)=3TNC78L-RTBZ (B)= (C)=	(D)= (E)= (F)=	Q'ty		I		R
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	
1	1	121450-01570	BOLT, STUD	1						
2	1	129150-77202	GENERATOR	1						
3	2	XM219230000	WASHER, SPRING	1						
4	2	XM329830000	COLLAR	1						
5	2	XM860250000	WASHER, 10	1						
6	2	XM863720000	NUT	1						
7	2	129150-77210	PLATE ASSY	1						
8	3	XM069000000	CLAMP	1						
9	3	XM081780000	STATOR	1						
10	3	XM178780000	COUPLER	1						
12	3	XYSPS400800	SCREW	1						
13	3	XYSPS402400	SCREW	2						
15	2	129150-77230	FLYWHEEL ASSY	1						
16	1	26366-100002	NUT, M10	1						
17	1	119810-77330	ADJUSTER	1						
18	1	26014-080252	BOLT, M8X 25	1						

Fig.17. TOOLS & GASKET SET



Remarks
(1) OPTIONAL PART.

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

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129400-92410	FLEX HORN	1							1
2	1	719843-92600	GASKET SET	1							1
2-1	1	719843-92601	GASKET SET	1						N	1
(A=E0000)											
3	2	119811-01330	GASKET, HEAD T=1.4	1							
4	2	124240-01882	GASKET	3							
4-1	2	124240-01883	GASKET	1						N	
(A=E0000)											
5	2	129150-01880	GASKET	1							
6	2	121850-51960	O-RING	1							
7	2	24311-000320	O-RING, 1AP32.0	1							
8	2	24341-000500	O-RING, 1AS50.0	1							
9	2	24311-000320	O-RING, 1AP32.0	1							
10	2	119865-11310	GASKET, BONNET	1							
11	2	124160-11340	SEAL, VALVE STEM	3							
12	2	124950-11340	SEAL, VALVE STEM	3							
13	2	119625-11870	PROTECTOR, NOZZLE	3							
14	2	119625-11880	SEAT, NOZZLE	3							
15	2	124701-11910	GASKET, SILENCER	1							
15-1	2	124701-11911	GASKET, SILENCER	2						N	
(A=E03851)											
16	2	119810-12110	GASKET, MANIFOLD	1							
16-1	2	119810-12111	GASKET, MANIFOLD	1						N	
(A=E03851)											
17	2	119810-13110	GASKET	1							
18	2	129150-77510	GASKET	1							
18-1	2	129150-77511	GASKET	1						N	
(A=E03851)											
19	2	129150-32020	GASKET, PUMP	1							
20	2	129150-35110	GASKET	1							
20-1	2	129150-35111	GASKET	1						N	
(A=E03851)											
21	2	129150-42020	GASKET, WATER PUMP	1							
22	2	129795-49550	GASKET	1							
22-1	2	129795-49551	GASKET	1						N	
(A=E03851)											
23	2	129150-49810	GASKET, THERMOSTAT	1							
23-1	2	129150-49811	GASKET, THERMOSTAT	1						N	
(A=E03851)											
24	1	104200-92350	DRIVER, SCREW	1							
25	1	171301-92750	WRENCH, L.O. FILTER	1							
26	1	28110-100120	SPANNER, 10X12	1							
27	1	28110-140170	SPANNER, 14X17	1							
28	1	28110-190220	SPANNER, 19X22	1							

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