

0CD10-M58800EN

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	1
		(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	New Part is interchangeable for Old Part but Old Part is not interchangeable for New Part.
Q	Old $\xrightarrow{\text{No}}$ New Yes	New Part is not interchangeable for Old Part but Old Part is interchangeable for New Part.
R	Old $\xrightarrow{\text{Yes}}$ New Yes	New/ Old Parts are both interchangeable.
S	Old $\xrightarrow{\text{No}}$ New 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.

Contents

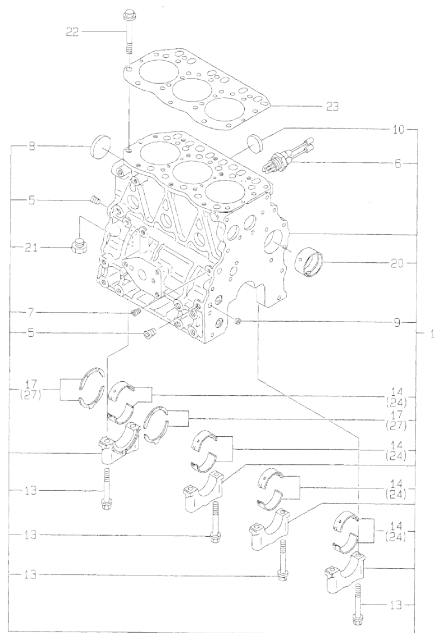
0CD10-M58800

Fig. No.	Fig. Name	Fig. No.	Fig. Name
3TNE78A-GHN			
1.	CYLINDER BLOCK		
2.	GEAR HOUSING		
3.	FLYWHEEL HOUSING & OIL SUMP		
4.	CYLINDER HEAD & BONNET		
5.	SUCTION MANIFOLD		
6.	EXHAUST MANIFOLD		
7.	CAMSHAFT & DRIVING GEAR		
8.	CRANKSHAFT & PISTON		
9.	LUB.OIL SYSTEM		
10.	COOLING WATER SYSTEM		
11.	FUEL INJECTION PUMP		
12.	GOVERNOR		
13.	FEED PUMP		
14.	FUEL INJECTION VALVE		
15.	FUEL FILTER		
16.	ENGINE STOP DEVICE		
17.	STARTING MOTOR		
18.	TENSION PULLEY		
19.	ELECTRIC PARTS		
20.	GASKET SET		

OCD10-M58800 3TNE78A-GHN

Fig.1. CYLINDER BLOCK

Y00058800
3TNE78A-GHN



OCD10-M58800 Fig.1

(A)=3TNE78A-GHN
(B)=
(C)=

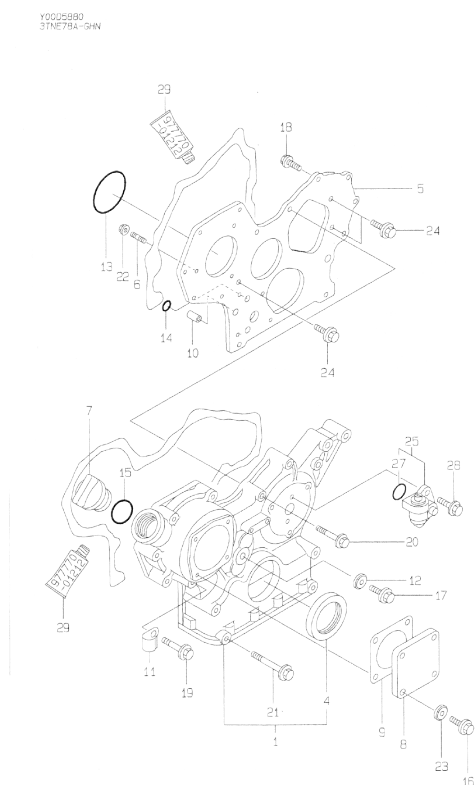
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719915-01560	BLOCK ASSY, CYLINDER	1							
5	2	124160-01910	PLUG, PT1/4	2							
6	2	46150-504600	HEATER	1							
6-1	2	124097-77900	HEATER, COOLING WATER	1						N	
		(A=E62037)									
7	2	23871-010000	PLUG, R01	1							
8	2	27231-500000	PLUG 50	1							
9	2	27241-120000	PLUG, 12	2							
10	2	27241-300000	PLUG 30	6							
13	2	119620-02020	BOLT, METAL CAP	8							
14	2	119810-02800	BEARING, MAIN	4							
17	2	119810-02930	BEARING ASSY, THRUST	1							
20	2	129795-02411	BUSH, CAMSHAFT	1							
21	2	23887-120002	PLUG, 12	1							
22	1	119810-01200	BOLT, CYLINDER HEAD	14							
23	1	119818-01330	GASKET, HEAD	1							
24	1	119810-02870	BEARING ASSY, MAIN	4							1
27	1	119810-02940	BEARING, THRUST 0.25	2							2

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

N:Old $\frac{Y00058800}{100}$ New, Q:Old $\frac{R01}{100}$ New, R:Old $\frac{Y00058800}{100}$ New, S:Old $\frac{R01}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.2. GEAR HOUSING

Remarks
(1) OPTIONAL PART.

0CD10-M58800 Fig.2

(A)=3TNE78A-GHN
(B)=
(C)=

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

Q'ty	I	R
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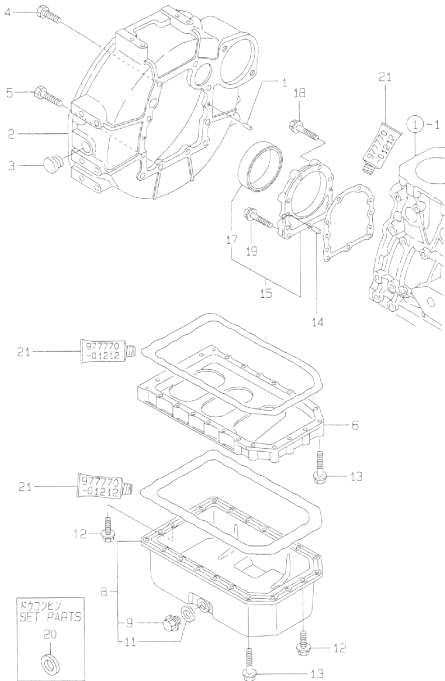
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719810-01500	CASE ASSY, GEAR	1							
4	2	129795-01800	SEAL, OIL	1							
5	1	129400-01520	FLANGE, GEAR CASE	1							
6	1	121450-01560	BOLT, STUD M8X22	3							
7	1	124160-01751	CAP, FILLER	1							
8	1	124240-01871	COVER, PUMP	1							
9	1	124240-01883	GASKET	1							
10	1	129795-01950	PIPE, DOWEL L=18	2							
11	1	129150-03100	RETAINER, PIPE	1							
12	1	22190-080002	WASHER, SEAL 6	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	26106-080202	BOLT, M8X 20 PLATED	2							
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	22190-080002	WASHER, SEAL 6	4							
24	1	26106-080162	BOLT, M8X 16 PLATED	3							
25	1	129150-91400	GEAR	1							
27	2	24341-000240	O-RING, 1AS24.0	1							
28	1	26106-060162	BOLT, M6X 16 PLATED	2							
29	1	977770-01212	GASKET, LIQUID	1							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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OCD10-M58800 3TNE78A-GHN

Fig.3. FLYWHEEL HOUSING & OIL SUMP

Y0005880
3TNE78A-GHN



OCD10-M58800 Fig.3

(A)=3TNE78A-GHN
(B)=
(C)=

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

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	119810-01770	OIL PAN ASSY	1							
9	2	119640-01640	PLUG, DRAIN M22	1							
11	2	22190-220002	WASHER, SEAL 22	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	129486-01670	BOLT, M8X30	6							
19	1	26106-080352	BOLT, M8X 35 PLATED	3							
20	1	23414-220000	GASKET, 22X1.0	1							
21	1	977770-01212	GASKET, LIQUID	1							1

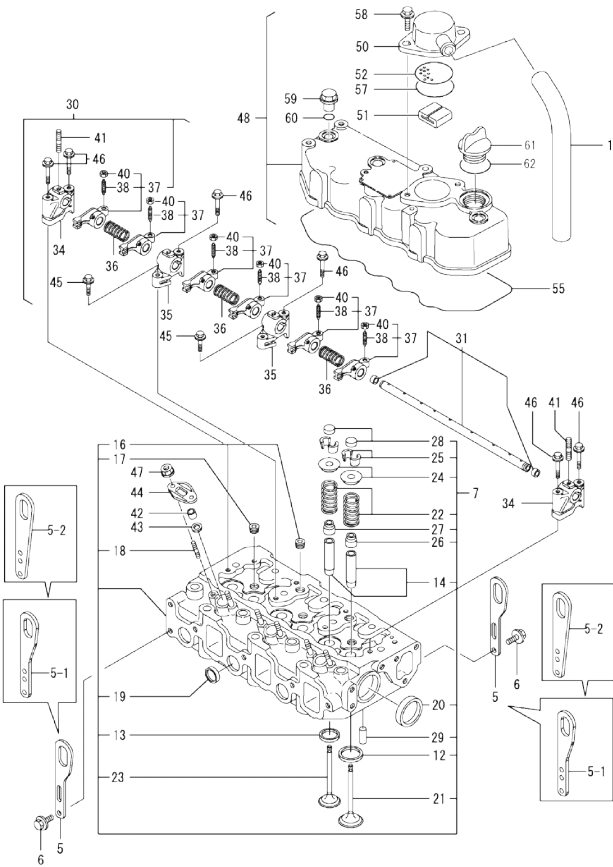
Remarks

(1) OPTIONAL PART.

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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OCD10-M58800 3TNE78A-GHN

Fig.4. CYLINDER HEAD & BONNET



Remarks
(1) REPAIR PART.

OCD10-M58800 Fig.4

(A)=3TNE78A-GHN
(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							
5-1	1	129604-07900	LIFTER	2						N	
(A=2009.05)											
5-2	1	129900-07900	LIFTER, ENGINE	2						N	
(A=2009.08)											
6	1	26106-080142	BOLT, M8X 14 PLATED	4							
7	1	719818-11700	HEAD ASSY, CYLINDER	1							
12	2	119810-11080	SEAT, INTAKE VALVE	3							
13	2	119810-11090	SEAT, EXHAUST VALVE	3							
14	2	124060-11800	GUIDE, INTAKE VALVE	6							1
16	2	121850-11860	PLUG, PT1/4	2							
17	2	23871-030000	PLUG, R03	3							
18	2	26216-060302	STUD, M6X 30	6							
19	2	27241-220000	PLUG, 22	3							
20	2	27241-400000	PLUG, 40	2							
21	2	119810-11100	VALVE, INTAKE	3							
22	2	119810-11120	SPRING, VALVE	6							
23	2	119810-11130	VALVE, EXHAUST	3							
24	2	104211-11180	RETAINER, SPRING	6							
25	2	27310-070001	COTTER, 7	6							
26	2	124160-11340	SEAL, VALVE STEM	3							
27	2	124950-11340	SEAL, VALVE STEM	3							
28	2	104211-11370	CAP, VALVE	6							
29	2	22351-060012	PIN, SPRING 6.0X12	2							
30	1	119865-11200	SUPPORT ASSY, ARM	1							
31	2	119810-11240	SHAFT ASSY, ROCKER	1							
34	2	129155-11260	SUPPORT, ROCKER ARM	2							
35	2	129155-11270	SUPPORT, ROCKER ARM	2							
36	2	129150-11280	SPRING, ROCKER	3							
37	2	719810-11650	ARM ASSY, ROCKER	6							
38	3	129150-11230	SCREW, VALVE ADJUST	6							
40	3	129150-11750	NUT, M8	6							
41	2	26226-080182	STUD, M8X 18	3							
42	1	119625-11871	PROTECTOR, NOZZLE	3							
43	1	119625-11880	SEAT, NOZZLE	3							
44	1	119625-11900	RETAINER, NOZZLE	3							
45	1	26106-080252	BOLT, M8X 25 PLATED	2							
46	1	26106-080502	BOLT, M8X 50 PLATED	6							
47	1	26366-060002	NUT, M6	6							
48	1	719810-11520	BONNET ASSY, HEAD	1							
50	2	129150-03020	COVER, BREATHER	1							
51	2	129150-03070	BAFFLE, BREATHER	1							
52	2	129150-03080	PLATE, BAFFLE	1							
55	2	119865-11310	GASKET, BONNET	1							
57	2	24341-000500	O-RING, 1AS50.0	1							
58	2	26106-080162	BOLT, M8X 16 PLATED	2							
59	1	124160-11360	KNOB	3							
60	1	24311-000120	O-RING, 1AP12.0	3							
61	1	124160-01751	CAP, FILLER	1							
62	1	24311-000320	O-RING, 1AP32.0	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.6. EXHAUST MANIFOLD

This diagram shows the exploded view of the engine head assembly. The components are numbered as follows:

- 1: Head gasket
- 2: Head gasket
- 3: Head gasket
- 4: Head gasket
- 5: Head gasket
- 6: Head gasket
- 7: Head gasket
- 8: Head gasket
- 9: Head gasket
- 10: Head gasket
- 11: Head gasket

(A)=3TNE78A-GHN
(B)=
(C)=

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

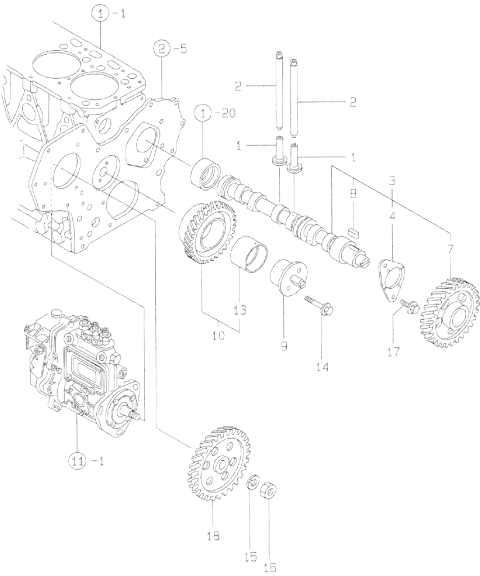
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	124450-11900	GASKET	1							
2	1	119810-13100	MANIFOLD, EXHAUST	1							
3	1	119810-13110	GASKET, EXH.MANIFOLD	1							
4	1	171083-13300	BEND, EXHAUST 50A	1							
5	1	194990-22050	NUT, M8	2							
6	1	23414-170000	GASKET, 17X1.0	1							
7	1	23894-030002	PLUG, G3/8	1							
8	1	26106-080452	BOLT, M8X 45 PLATED	2							
9	1	26106-080602	BOLT, M8X 60 PLATED	2							
10	1	26106-080952	BOLT, M8X 95 PLATED	4							
11	1	26216-080602	STUD, M8X 60	2							

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-M58800 3TNE78A-GHN

Fig.7. CAMSHAFT & DRIVING GEAR

Y0005880
3TNE78A-GHN



Remarks
(1) REPAIR PART.

OCD10-M58800 Fig.7

(A)=3TNE78A-GHN
(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	22217-120000	WASHER, SPRING 12	1							
16	1	26716-120002	NUT, M12	1							
17	1	26106-080142	BOLT, M8X 14 PLATED	2							
18	1	129100-25900	GEAR, PUMP	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.9. LUB.OIL SYSTEM

This exploded view diagram illustrates the assembly of a 4-cylinder engine. The components are identified by the following callouts:

- 1-1**: Cylinder head
- 2-5**: Valve train components (intake/exhaust valves, springs, and retainers)
- 3-1**: Piston and connecting rod assembly
- 4**: Crankshaft
- 5**: Oil pan
- 6**: Water pump
- 7**: Timing belt/timing chain drive components
- 8**: Camshaft
- 9**: Distributor
- 10**: Ignition coil
- 11**: Spark plug
- 12**: Timing belt/timing chain cover
- 13**: Timing belt/timing chain tensioner
- 14**: Water pump housing
- 15**: Ignition coil bracket
- 16**: Timing belt/timing chain guide
- 17**: Timing belt/timing chain
- 18**: Water pump pulley
- 19**: Ignition coil pulley
- 20**: Ignition coil bracket
- 21**: Ignition coil
- 22**: Ignition coil bracket
- 23**: Ignition coil bracket
- 24**: Ignition coil bracket
- 25**: Ignition coil bracket
- 26**: Ignition coil bracket
- 27**: Ignition coil bracket
- 28**: Ignition coil bracket
- 29**: Ignition coil bracket
- 30**: Ignition coil bracket
- 31**: Ignition coil bracket
- 32**: Ignition coil bracket
- 33**: Ignition coil bracket
- 34**: Ignition coil bracket
- 35**: Ignition coil bracket
- 36**: Ignition coil bracket
- 37**: Ignition coil bracket
- 38**: Ignition coil bracket
- 39**: Ignition coil bracket

(A)=3TNE78A-GHN
(B)=
(C)=

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

 $Q^{\#}$

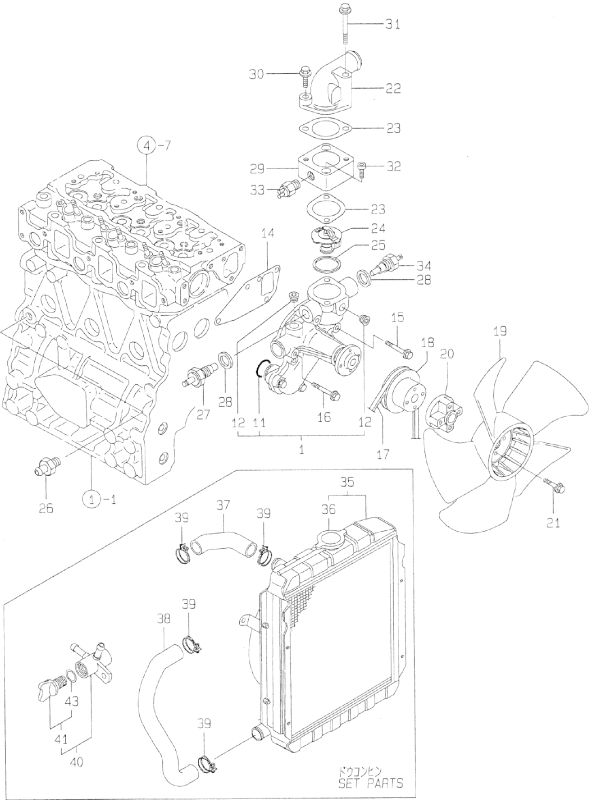
No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129001-32001	PUMP ASSY, OIL	1							
14	1	129150-32020	GASKET, PUMP	1							
15	1	26450-060252	BOLT, M6X 25	4							
16	1	119932-34800	DIPSTICK, OIL	1							
17	1	121520-34810	GUIDE, DIPSTICK	1							
18	1	129150-35041	GASKET	1							
19	1	119810-35300	PIPE ASSY, OIL INLET	1							
23	1	26106-080352	BOLT, M8X 35 PLATED	2							
24	1	171375-35100	BRACKET, STRAINER	1							
25	1	129150-35111	GASKET	1							
26	1	129150-35151	FILTER, D80XL80	1							
27	1	129001-35300	BOLT, LO FILTER	1							
28	1	129150-35350	NUT	1							
29	1	24311-000160	O-RING, 1AP16.0	1							
30	1	26106-080202	BOLT, M8X 20 PLATED	3							
31	1	124160-39140	BOLT, PIPE JOINT M10	1							
32	1	119810-39200	PIPE ASSY, OIL	1							
36	1	124160-39450	SWITCH, HYDRAULIC	1							
37	1	124550-59820	BOLT, PIPE JOINT M8	1							
38	1	23414-100000	GASKET, 10X1.0	2							
39	1	22190-080002	WASHER, SEAL 6	2							
40	1	171375-39601	DAMPER, 1/8	1							
41	1	144626-91560	SENSOR	1							
42	1	124250-49351	SENSOR, WATER TEMP.	1							
43	1	129150-49360	GASKET	1							
44	1	129792-39410	VALVE ASSY, CHECK	3							
50	1	119810-39650	NOZZLE	3							
51	1	22351-030010	PIN, SPRING 3.0X10	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:Q'ty Change

OCD10-M58800 3TNE78A-GHN

Fig.10. COOLING WATER SYSTEM

Y0025880
3TNE78A-GHN



OCD10-M58800 Fig.10

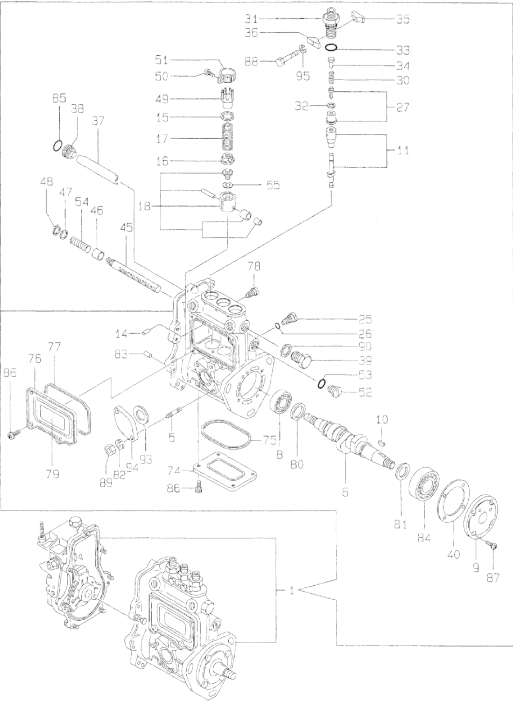
(A)=3TNE78A-GHN
(B)=
(C)=

(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	25132-003900	V-BELT, A39	1							
18	1	129403-42380	V-PULLEY, D=110	1							
19	1	119265-44740	FAN, D=310X5F	1							
20	1	171353-44760	SPACER, FAN	1							
21	1	26106-060352	BOLT, M6X 35 PLATED	4							
22	1	124101-49530	COVER, THERMOSTAT	1							
23	1	129795-49551	GASKET	2							
24	1	129155-49800	THERMOSTAT, 71C	1							
25	1	129150-49811	GASKET, THERMOSTAT	1							
26	1	121550-49111	JOINT, PT1/4	1							
27	1	121250-44901	SWITCH, THERMO 110	1							
28	1	129150-49360	GASKET, 10	2							
29	1	171335-49590	SPACER	1							
30	1	26106-080302	BOLT, M8X 30 PLATED	1							
31	1	26106-080602	BOLT, M8X 60 PLATED	1							
32	1	26450-080302	BOLT, M8X 30	2							
33	1	171375-44900	SWITCH, 15	1							
34	1	171375-44910	SENSOR	1							
35	1	171340-44510	RADIATOR	1							
36	2	123682-44210	CAP, RADIATOR	1							
37	1	171335-49010	PIPE, WATER	1							
37-1	1	119915-49010	PIPE, WATER A	1							N
(A=E12218)											
38	1	171301-49020	PIPE, WATER	1							
39	1	23010-038000	CLAMP, 38	4							
40	1	129150-49100	COCK ASSY, 3-WAY	1							
41	2	129150-49080	COCK, DRAIN	1							
43	3	119629-49080	GASKET	1							

OCD10-M58800 3TNE78A-GHN
Fig.11. FUEL INJECTION PUMP

Y0025980
3TNE78A-GHN



Remarks
(1)GOVERNOR(FIG.12)IS INCORPORATED
IN THIS FUEL INJECTION PUMP.
(REF.NO.1).

OCD10-M58800 Fig.11

(A)=3TNE78A-GHN
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719915-51400	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	129411-51200	PLUNGER ASSY	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 $\frac{NBS}{100}$ New, Q:Old $\frac{QBS}{100}$ New, R:Old $\frac{RBS}{100}$ New, S:Old $\frac{SBS}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
++ CONTINUE ++
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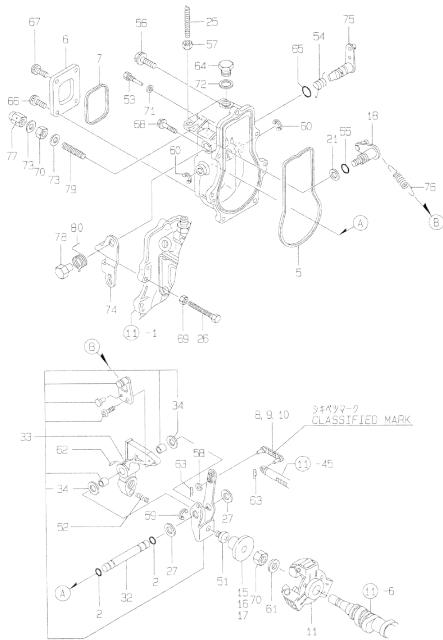
Fig.11. FUEL INJECTION PUMP

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

OCD10-M58800 3TNE78A-GHN

Fig.12. GOVERNOR

YD025895
3TNE78A-GHN



Remarks
(1) SELECTIVE PARTS:CERTAIN THE CLASSIFICATION MARK,THEN PLACE YOUR ORDER.(REF.TO.ILLUSTRATION).
(2) SELECTIVE PART.
* THIS FIGURE(GOVERNOR.ASSY)IS INCORPORATED IN THE FUEL INJECTION PUMP ASSY(FIG.11).

OCD10-M58800 Fig.12

(A)=3TNE78A-GHN
(B)=
(C)=

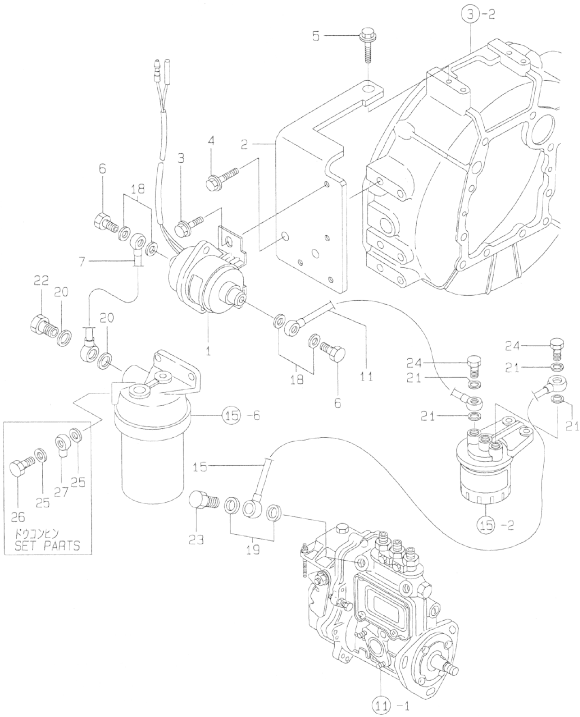
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
2	2	129155-61280	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							1
9	2	129155-61130	LINK, L=31 MARK 1	1							1
10	2	129155-61140	LINK, L=30.5 MARK 05	1							1
11	2	129155-61201	WEIGHT ASSY,GOVERNOR	1							
15	2	129155-61341	SLEEVE	1							2
16	2	129155-61350	SLEEVE, L=24.9	1							2
17	2	129155-61360	SLEEVE, L=25.2	1							2
18	2	129100-61400	SHAFT ASSY	1							
21	2	129155-61430	SHIM, SHAFT	1							
25	2	129155-61450	BOLT, LIMITING	1							
26	2	129155-61460	BOLT, LIMITING	1							
27	2	129155-61480	SHIM ASSY	2							
32	2	129155-61490	SHAFT	1							
33	2	129100-61501	LEVER ASSY, GOVERNOR	1							
34	3	174307-51700	SHIM SET, PLUNGER	2							
51	2	129155-61540	SHIFTER	1							
52	2	129500-61650	SPRING, FUEL CONTROL	1							
53	2	129155-61810	PIN	1							
54	2	129100-61821	SPRING, RETURN	1							
55	2	129155-61830	O-RING, S10	1							
56	2	129155-61950	BOLT	1							
57	2	124550-66370	NUT, M6	1							
58	2	22117-040000	WASHER, 4	1							
59	2	22272-000040	RING, E- 4	1							
60	2	22272-000060	RING, E- 6	2							
61	2	22287-120000	WASHER, 12	1							
62	2	22351-030016	PIN, SPRING 3.0X16	1							
63	2	22372-040000	PIN, SNAP 4	2							
64	2	23887-100002	PLUG, 10	1							
65	2	24311-240100	O-RING, 1AP10A	1							
66	2	26022-050102	SCREW, M5X10	2							
67	2	26023-050102	SCREW, M5X10	2							
68	2	26106-060202	BOLT, M6X 20 PLATED	6							
69	2	26756-060002	NUT, LOCK M6	1							
70	2	26776-120002	NUT, LOCK M12	2							
71	2	22190-060002	WASHER, SEAL 6	1							
72	2	22190-100002	WASHER, SEAL 10	1							
73	2	22190-120002	WASHER, SEAL 12	2							
74	2	171488-61440	LEVER, CONTROL	1							
75	2	129155-61802	LEVER, STOP	1							
76	2	129500-61700	SPRING, GOVERNOR	1							
77	2	26687-120002	NUT, CAP M12	1							
78	2	129255-61410	NUT, M8	1							
79	2	129155-61470	BOLT, FO CONTROL	1							
80	2	129255-61420	SPRING, RETURN	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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OCD10-M58800 3TNE78A-GHN
Fig.13. FEED PUMP

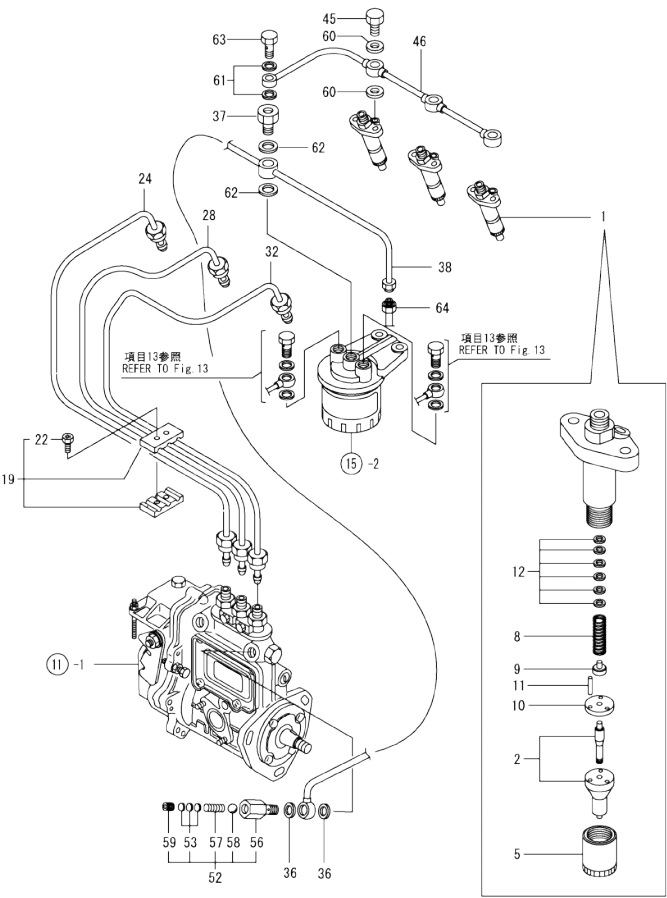
Y0005990
3TNE78A-GHN



OCD10-M58800 Fig.13											
				(A)=3TNE78A-GHN	(D)=						
				(B)=	(E)=						
				(C)=	(F)=						
				Q'ty						I	R
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)		
1	1	124790-52201	PUMP ASSY, FUEL FEED	1							
2	1	171375-52501	BRACKET, PUMP	1							
3	1	26106-060102	BOLT, M6X 10 PLATED	2							
4	1	26106-080162	BOLT, M8X 16 PLATED	2							
5	1	26106-100162	BOLT, M10X 16 PLATED	1							
6	1	105582-59150	BOLT, PIPE JOINT M8	2							
7	1	171375-59500	PIPE ASSY, FUEL	1							
11	1	171335-59511	PIPE ASSY, FUEL	1							
15	1	171335-59521	PIPE ASSY, FUEL	1							
18	1	23414-080012	GASKET, 8X1.0	4							
19	1	23414-120000	GASKET, 12X1.0	2							
20	1	23414-120000	GASKET, 12X1.0	2							
21	1	23414-120000	GASKET, 12X1.0	4							
22	1	23857-060000	BOLT, JOINT 6	1							
23	1	23857-060000	BOLT, JOINT 6	1							
24	1	23857-060000	BOLT, JOINT 6	2							
25	1	23414-120000	GASKET, 12X1.0	2							
26	1	23857-060000	BOLT, JOINT 6	1							
27	1	103854-39540	JOINT, PIPE	1							

OCD10-M58800 3TNE78A-GHN

Fig.14. FUEL INJECTION VALVE



OCD10-M58800 Fig.14

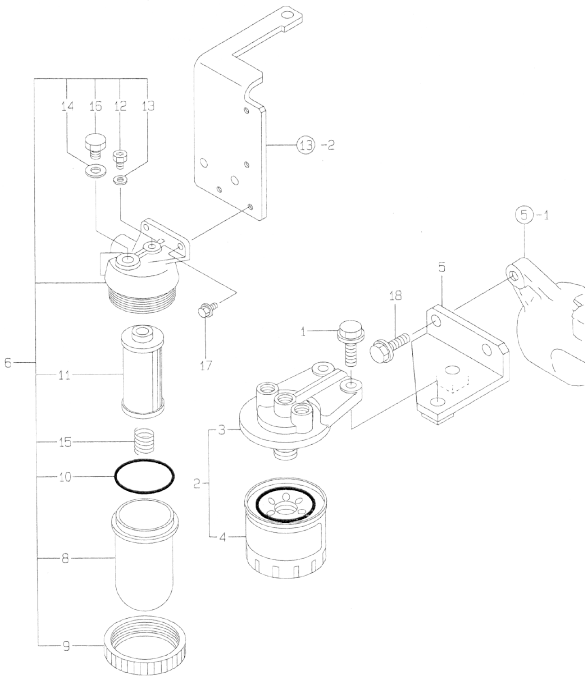
(A)=3TNE78A-GHN
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729500-53300	VALVE ASSY,INJECTION	3							
2	2	129500-53000	VALVE ASSY,INJECTION	3							
5	2	114250-53080	NUT, NOZZLE	3							
8	2	114250-53120	SPRING, NOZZLE	3							
9	2	114250-53130	SEAT, SPRING	3							
10	2	114250-53140	SPACER	3							
11	2	114250-53210	PIN	6							
12	2	114250-53400	SHIM SET	3							
19	1	129150-59120	RETAINER, PIPE	1							
22	2	129150-59131	BOLT, M4X14	2							
24	1	119811-59810	PIPE ASSY, INJECTION	1							
28	1	119811-59820	PIPE ASSY, INJECTION	1							
32	1	119811-59830	PIPE ASSY, INJECTION	1							
36	1	104200-59170	GASKET, 12	2							
37	1	129495-59300	BOLT, PIPE JOINT	1							
38	1	171335-59530	PIPE ASSY, FUEL	1							
45	1	129491-59540	BOLT, PIPE JOINT M6	3							
46	1	171335-59551	PIPE ASSY, RETURN	1							
52	1	129100-59951	VALVE ASSY, CHECK	1							
53	2	129100-59850	SHIM SET	1							
56	2	129100-59961	BODY, VALVE	1							
57	2	129100-59970	SPRING	1							
58	2	24190-080001	BALL, STEEL 1/4	1							
59	2	27241-100000	PLUG, 10	1							
60	1	23414-060000	GASKET, 6X1.0	6							
61	1	23414-080012	GASKET, 8X1.0	2							
62	1	23414-140000	GASKET, 14X1.0	2							
63	1	23851-030000	JOINT BOLT 3	1							
64	1	43551-001451	UNION 8(M)	1							

OCD10-M58800 3TNE78A-GHN
Fig.15. FUEL FILTER

Y0005880
3TNE78A-GHN

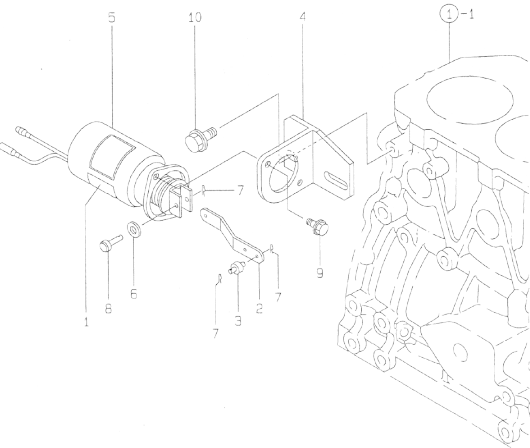


										OCD10-M58800		Fig.15					
										(A)=3TNE78A-GHN		(D)=					
										(B)=		(E)=					
										(C)=		(F)=					
										Q'ty							
No.	Lev.	Parts No.	Description						(A)	(B)	(C)	(D)	(E)	(F)	I	R	
1	1	26106-100302	BOLT, M10X 30 PLATED						2								
2	1	129470-55601	FILTER ASSY, FUEL						1								
3	2	129470-55610	BODY, STRAINER						1								
4	2	129470-55701	STRAINER ASSY, FUEL						1								
5	1	171335-55611	BRACKET, STRAINER						1								
6	1	171081-55900	FILTER ASSY, PRE						1								
8	2	121370-55730	CUP, STRAINER						1								
9	2	110250-55610	RING, CUP RETAINING						1								
10	2	103854-32050	O-RING						1								
11	2	171081-55910	FILTER, FUEL						1								
12	2	101720-55750	PLUG, HEXAGON M6						1								
13	2	23418-060000	GASKET, 6X1.0						1								
14	2	23414-080012	GASKET, 8X1.0						1								
15	2	121257-55720	SPRING, FILTER						1								
16	2	101720-55750	PLUG, HEXAGON M6						1								
17	1	26106-060142	BOLT, M6X 14 PLATED						2								
18	1	26106-080162	BOLT, M8X 16 PLATED						2								

OCD10-M58800 3TNE78A-GHN

Fig.16. ENGINE STOP DEVICE

Y0005890
3TNE78A-GHN



OCD10-M58800 Fig.16

(A)=3TNE78A-GHN
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	171010-65100	LABEL	1							
2	1	171335-65110	LINK, SOLENOID	1							
3	1	171335-65120	PIN	1							
4	1	171335-65130	BRACKET, SOLENOID	1							
5	1	171335-77951	SOLENOID, MAGNETIC	1							
6	1	22117-050000	WASHER, 5	1							
7	1	22360-050000	SNAP PIN 5	3							
8	1	22487-050160	PIN, H 5X 16	1							
9	1	26106-060122	BOLT, M6X 12 PLATED	2							
10	1	26106-080142	BOLT, M8X 14 PLATED	2							

Fig.17. STARTING MOTOR

This exploded view diagram illustrates the assembly of a power tool housing. The components are numbered as follows:

- 1**: Main housing upper shell
- 2**: Motor assembly (includes 3, 4, 5, 6, 7)
- 3**: Motor housing
- 4**: Motor shaft
- 5**: Motor stator
- 6**: Motor end cap
- 7**: Motor terminal block
- 8**: Motor mounting flange
- 9**: Housing lower shell
- 10**: Housing lower shell insert
- 11**: Housing lower shell insert screw
- 12**: Housing upper shell insert
- 13**: Housing upper shell insert screw
- 14**: Housing upper shell insert
- 15**: Housing upper shell insert screw
- 16**: Housing upper shell insert
- 17**: Housing upper shell insert screw
- 18**: Housing upper shell insert
- 19**: Housing upper shell insert screw
- 20**: Housing upper shell insert
- 21**: Housing upper shell insert screw
- 22**: Housing upper shell insert
- 23**: Housing upper shell insert
- 24**: Housing upper shell insert
- 25**: Housing upper shell insert screw

Callout **A** points to the housing upper shell insert (12). Callout **B** points to the housing upper shell insert (14).

(D)=
(E)=

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

[illegible]

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

Fig.18. TENSION PULLEY

This exploded view diagram illustrates the assembly of a mechanical component, likely a pump or valve. The main housing (1) is shown at the bottom left. Above it, a bracket (2) is attached to the housing. A central shaft (3) passes through the bracket and is secured with a nut (4) and a washer (5). A flange (6) is mounted on the end of the shaft. A lever arm (7) is connected to the bracket via a pin (8) and a nut (9). A small component (10) is shown near the lever arm, and a screw (11) is used to secure it. A small pin (12) is also shown. A small screw (13) is used to secure the lever arm to the bracket. A small pin (14) is shown near the lever arm, and a screw (15) is used to secure it. A small pin (16) is shown near the lever arm.

(A)=3TNE78A-GHN
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	121450-01570	BOLT, STUD	1							
2	1	171375-44300	PULLEY ASSY, TENSION	1							
3	2	171011-44301	PULLEY, TENSION	1							
4	2	171375-44320	BRACKET, PULLEY	1							
5	2	26706-100002	NUT, M10	1							
6	1	26366-100002	NUT, M10	1							
7	1	119810-77330	ADJUSTER	1							
8	1	26014-080252	BOLT, M8X 25	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

Fig.19. ELECTRIC PARTS

(A)=3TNE78A-GHN
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	171010-77850	THERMOSTAT	2							
2	1	171090-91010	GAUGE	1							
3	1	171014-91101	TACHOMETER	1							
4	1	121400-91251	SWITCH, STARTER	1							
5	2	121400-91271	KEY, SWITCH	1							
6	1	121400-91140	SHAFT	1							

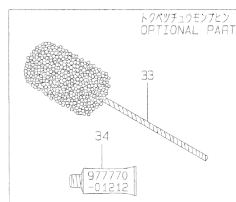
N:Old ^{Yes}/_{No} New. Q:Old ^{No}/_{Yes} New. R:Old ^{Yes}/_{Yes} New. S:Old ^{No}/_{No} New. W:Add. Z:Discontinued. F:Interchangeable by set. K:Q'ty Change

Fig.20. GASKET SET

(D)=
(E)=

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

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



Parts No. Index

Parts No.	Fig. No.	Ref. No.
101720-55750	15	12
		16
103854-32050	15	10
103854-39540	13	27
104200-59170	14	36
	20	20
104211-11180	4	24
104211-11370	4	28
105582-59150	13	6
110250-55610	15	9
114250-53080	14	5
114250-53120	14	8
114250-53130	14	9
114250-53140	14	10
114250-53210	14	11
114250-53400	14	12
119265-44740	10	19
119620-01750	3	3
119620-02020	1	13
119625-11871	4	42
	20	6
119625-11880	4	43
	20	7
119625-11900	4	44
119629-49080	10	43
119640-01640	3	9
119810-01200	1	22
119810-01730	3	6
119810-01770	3	8
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