

0CW10-M48301EN

P R E F A C E

1. This parts catalog is the 2nd edition of 3TNV70-XHT for HWASUNG THERMO.

Pub. No. : 0CW10-G48301

Published : December, 2012

2. Model name

Engine model	Vehicle	Vehicle made by
3TNV70-XHT	REFRIGERATOR	HWASUNG THERMO

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 $\xrightarrow{\text{No}}$	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.

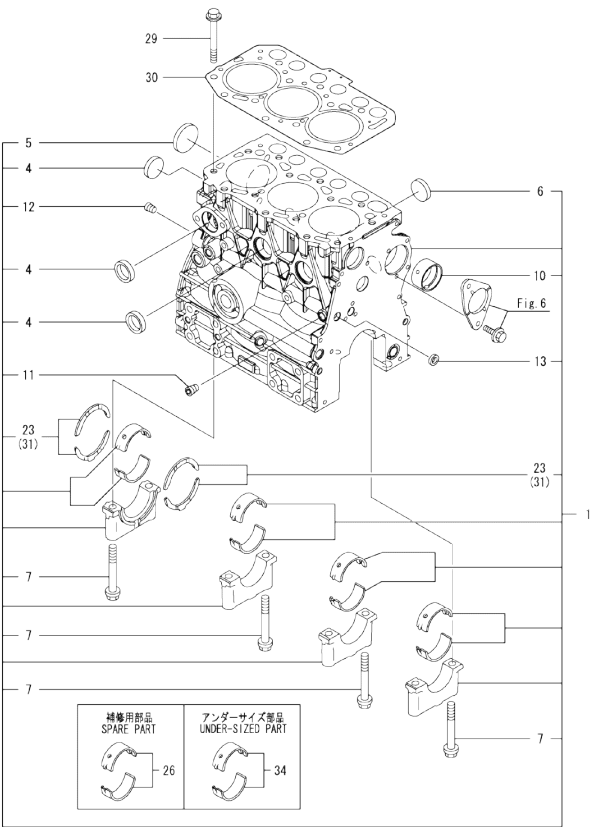
The comments (remarks) on parts that are indicated at the bottom of the illustration are the same symbols as those stated above.

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4.	CYLINDER HEAD & BONNET		
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7.	CRANKSHAFT & PISTON		
8.	LUB.OIL SYSTEM		
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12.	FUEL INJECTION VALVE		
13.	FUEL FILTER		
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Fig.1. CYLINDER BLOCK

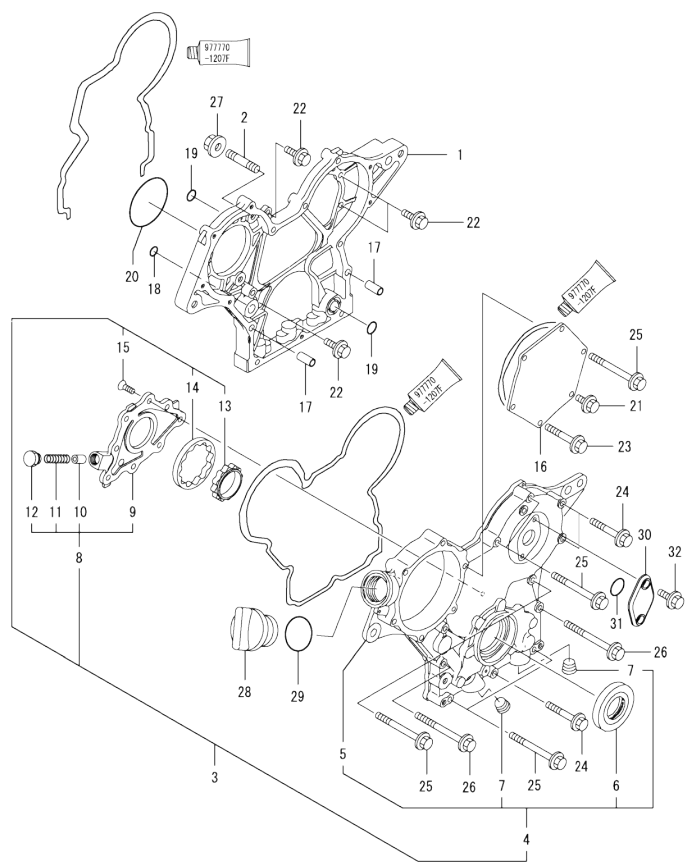


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719515-01561	BLOCK ASSY, CYLINDER	1							
4	2	105311-01090	PLUG, 30	4							
5	2	119623-01250	PLUG, 45	1							
6	2	119285-01990	PLUG, 25	3							
7	2	119620-02020	BOLT, METAL CAP	8							
10	2	119717-02411	BUSH, CAMSHAFT	1							
11	2	124060-01050	PLUG, PT1/8	1							
12	2	124160-01910	PLUG, PT1/4	1							
13	2	27241-120000	PLUG, 12	1							
23	2	119717-02930	BEARING, THRUST	2							
26	1	719717-02901	BEARING, MAIN	4							1
29	1	119515-01200	BOLT, HEAD	14							
30	1	119515-01330	GASKET, HEAD	1							
30-1	1	119515-01331	GASKET, HEAD	1							N
(A=EXXXXX)											
31	1	119810-02941	BEARING, THRUST 0.25	2							2
34	1	719717-02911	BEARING, 0.25 US	4							3

Remarks
(1)Spare part.
(2)Over-sized(O.S.=0.25)part.
(3)Under-sized(U.S.=0.25)part.

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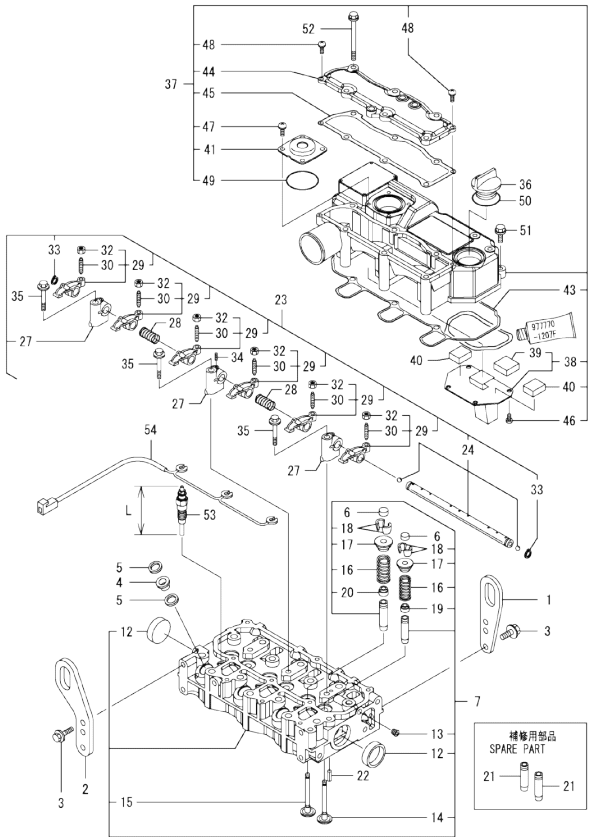
Fig.2. GEAR HOUSING



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119717-01501	CASE, GEAR	1							
2	1	119717-01570	STUD	3							
3	1	119734-01580	CASE ASSY, GEAR	1							
4	2	719734-01510	CASE ASSY, GEAR	1							
5	3	119744-01521	COVER, GEAR CASE	1							
6	3	119717-01800	SEAL, OIL	1							
7	3	23876-030000	PLUG, R03	2							
8	2	119717-32100	COVER ASSY	1							
9	3	119717-32080	COVER	1							
10	3	129900-32130	VALVE, RELIEF	1							
11	3	129001-32320	SPRING	1							
12	3	129001-32330	PLUG	1							
13	2	119717-32110	ROTOR, INNER	1							
14	2	119717-32120	ROTOR, OUTER	1							
15	2	119802-32130	SCREW, M6X16	8							
16	1	119717-01750	COVER	1							
17	1	119660-01911	PIPE, KNOCK	4							
18	1	119624-32040	O-RING, P12.0	1							
19	1	119717-32050	O-RING, P17.0	3							
20	1	121850-51960	O-RING	1							
21	1	26106-060122	BOLT, M6X 12 PLATED	1							
22	1	26106-060162	BOLT, M6X 16 PLATED	4							
23	1	26106-060402	BOLT, M6X 40 PLATED	4							
24	1	26106-060402	BOLT, M6X 40 PLATED	3							
25	1	26106-060602	BOLT, M6X 60 PLATED	7							
26	1	26106-060652	BOLT, M6X 65 PLATED	2							
27	1	26306-080002	NUT, M8	3							
28	1	124160-01751	COVER, FILLER	1							
29	1	24311-000320	O-RING, 1AP32.0	1							
30	1	121023-01551	COVER	1							
31	1	24341-000240	O-RING, 1AS24.0	1							
32	1	26106-060162	BOLT, M6X 16 PLATED	2							

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Fig.4. CYLINDER HEAD & BONNET



Remarks
(1)Spare part.
(2)L=Ref.No.53 69M/M,53-1 66M/M.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119226-07900	LIFTER	1							
2	1	129486-07901	LIFTER	1							
3	1	26106-080142	BOLT, M8X 14 PLATED	4							
4	1	129901-11450	PROTECTOR, NOZZLE	3							
5	1	119600-11460	GASKET, NOZZLE	6							
6	1	105010-11490	CAP, VALVE	6							
7	1	119515-11740	HEAD ASSY, CYLINDER	1							
12	2	119285-11990	PLUG, 35	2							
13	2	23876-005000	PLUG, R005	1							
14	2	119515-11101	VALVE, INTAKE	3							
15	2	119515-11110	VALVE, EXHAUST	3							
16	2	119717-11131	SPRING, VALVE	6							
17	2	129508-11180	RETAINER, SPRING	6							
18	2	119717-11190	COTTER	12							
19	2	119717-11340	SEAL, VALVE STEM	3							
20	2	119717-11350	SEAL, VALVE STEM	3							
21	1	119515-11800	GUIDE, VALVE	6							1
22	1	22351-060012	PIN, SPRING 6.0X12	2							
23	1	119515-11200	SUPPORT ASSY, ARM	1							
24	2	119515-11240	SHAFT ASSY, ROCKER	1							
27	2	119717-11260	SUPPORT, ROCKER ARM	3							
28	2	119515-11280	SPRING	2							
29	2	119717-11650	ARM, ROCKER	6							
30	3	129150-11230	SCREW, VALVE ADJUST	6							
32	3	129150-11750	NUT, M8	6							
33	2	22242-000120	RING, 12	2							
34	2	26979-050162	SCREW, M5X16	1							
35	1	26106-080402	BOLT, M8X 40 PLATED	3							
36	1	124160-01751	COVER, FILLER	1							
37	1	119516-11380	BONNET ASSY, HEAD	1							
38	2	119717-03031	PLATE	1							
39	3	119717-03070	BAFFLE, BREATHER	1							
40	2	119717-03070	BAFFLE, BREATHER	2							
41	2	129006-03120	COVER, DIAPHRAGM	1							
43	2	119515-11310	GASKET, BONNET	1							
44	2	119515-11320	COVER, BONNET	1							
45	2	119515-11330	GASKET	1							
46	2	22857-500100	SCREW, 5X10	4							
47	2	22857-500100	SCREW, 5X10	4							
48	2	22857-500160	SCREW, 5X16	2							
49	2	24341-000400	O-RING, 1AS40.0	1							
50	1	24311-000320	O-RING, 1AP32.0	1							
51	1	26106-060202	BOLT, M6X 20 PLATED	3							
52	1	26106-060752	BOLT, M6X 75 PLATED	6							
53	1	119718-77800	PLUG, GLOW	3							
53-1	1	119718-77801	PLUG, GLOW	3							Q 2
(A)=XXXXXX											
54	1	119717-77852	CONNECTOR, GLOW PLUG	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. AIR CLEANER



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

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Fig.5. EXHAUST MANIFOLD

Fig.5. EXHAUST MANIFOLD



				(A)=3TNV70-XHT	(D)=					I	R
				(B)=	(E)=						
				(C)=	(F)=						
No.	Lev.	Parts No.	Description	Q'ty							
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119718-13100	MANIFOLD, EXHAUST	1							
2	1	119717-13110	GASKET	1							
3	1	119717-13600	STUD, M8X50	2							
4	1	119802-13620	BOLT, M8X50	4							
5	1	119131-18320	STUD, M6X22	4							
6	1	26306-080002	NUT, M8	2							
7	1	119515-13200	GASKET, SILENCER	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

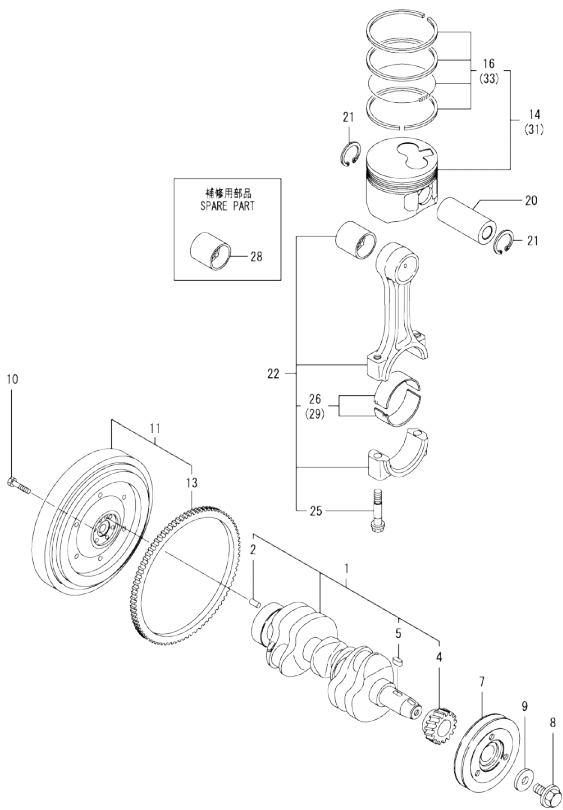
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Fig.6. CAMSHAFT & DRIVING GEAR



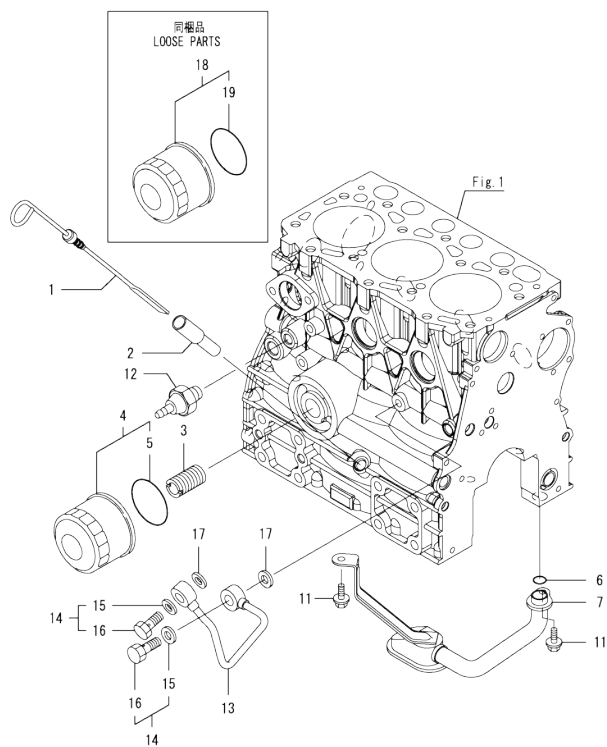
N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Qty Change

Fig.7. CRANKSHAFT & PISTON



No.	Lev.	Parts No.	Description	(A)=3TNV70-XHT (B)= (C)=						Q'ty	I	R
				(A)	(B)	(C)	(D)	(E)	(F)			
1	1	119515-21700	CRANKSHAFT ASSY	1								
2	2	129100-01580	PIN, M8X16	1								
4	2	119717-21200	GEAR, CRANKSHAFT	1								
5	2	22512-040120	KEY, 4X 12	1								
7	1	119515-21650	V-PULLEY	1								
8	1	119621-21680	BOLT, FLANGE 12X1.25	1								
8-1	1	119621-21681	BOLT, FLANGE 12X1.25	1							R	
(A=E62801)												
9	1	119620-21941	WASHER	1								
10	1	119620-21500	BOLT, FLYWHEEL	5								
11	1	119385-21580	FLYWHEEL ASSY	1								
13	2	124060-21600	GEAR, RING	1								
14	1	119516-22020	PISTON ASSY	3								
16	2	119515-22500	RING SET, PISTON	3								
20	1	119515-22300	PIN, PISTON	3								
21	1	22252-000220	RING, 22	6								
22	1	119515-23000	ROD ASSY, CONNECTING	3								
25	2	119717-23200	BOLT, CONNECTING ROD	6								
26	2	119515-23601	BEARING, CRANK PIN	3								1
28	1	119717-23910	BEARING, PISTON PIN	3								2
29	1	119515-23611	METAL ASSY, 0.25	3								3
31	1	119516-22030	PISTON ASSY, 0.25 OS	3								3
33	2	119515-22550	RING SET, 0.25 OS	3								3

Remarks
(1)Spare part.
(2)Under-sized(U.S.=0.25)part.
(3)Over-sized(O.S.=0.25)part.

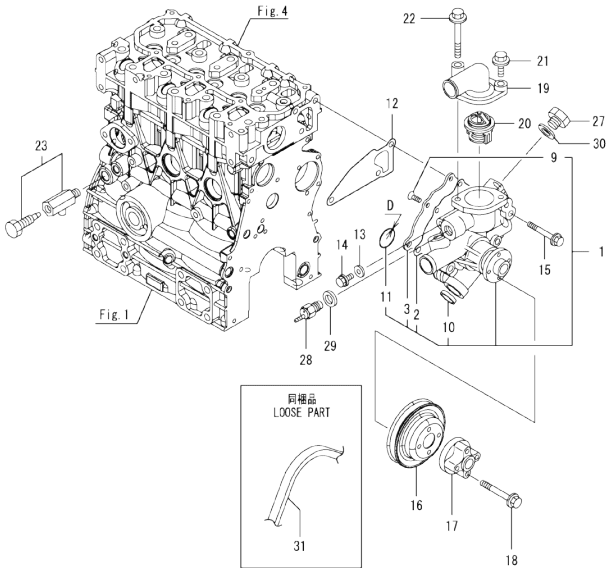


No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119515-34801	DIPSTICK, OIL	1							
2	1	121520-34810	GUIDE, DIPSTICK	1							
3	1	129100-35140	STUD	1							
3-1	1	119717-35140	BOLT	1							N
		(A=E62801)									
4	1	119660-35150	FILTER, LUB. OIL	1							
5	2	124450-35110	O-RING	1							
6	1	119717-32060	O-RING, P15.0	1							
7	1	119515-35080	PIPE ASSY, OIL INLET	1							
11	1	26106-060102	BOLT, M6X 10 PLATED	2							
12	1	114250-39450	SWITCH, 0.5KG	1							
13	1	119717-39210	PIPE, OIL	1							
14	1	129005-59830	BOLT ASSY, JOINT M8	2							
15	2	22190-080002	WASHER, SEAL 6	2							
16	2	23857-030000	BOLT, JOINT 3	2							
17	1	22190-080002	WASHER, SEAL 6	2							
18	1	119660-35150	FILTER, LUB. OIL	1							
19	2	124450-35110	O-RING	1							

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

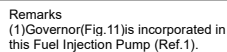
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Fig.9. COOLING WATER SYSTEM



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119515-42001	PUMP ASSY, WATER	1							
1-1	1	119515-42002	PUMP ASSY, CW	1						N	
(A=EXXXXX)											
2	2	119717-42031	GASKET	1							
3	2	119515-42041	COVER	1							
9	2	26577-060122	SCREW, M6X12	4							
10	2	27241-250000	PLUG, 25	1							
11	2	119717-42320	O-RING, P26	1							
11-1	2	119C10-42320	O-RING, 2028	1						S	1
(A=EXXXXX)											
12	1	119515-42020	GASKET, WATER PUMP	1							
13	1	23414-080000	GASKET, 8X1.0	1							
14	1	26106-080122	BOLT, M8X 12 PLATED	1							
15	1	26106-080502	BOLT, M8X 50 PLATED	3							
16	1	119717-42350	V-PULLEY, D=100	1							
17	1	129457-44760	SPACER, FAN	1							
18	1	26106-060452	BOLT, M6X 45 PLATED	4							
19	1	124101-49531	COVER, THERMOSTAT	1							
20	1	119717-49800	THERMOSTAT, 71	1							
21	1	26106-080252	BOLT, M8X 25 PLATED	1							
22	1	26106-080652	BOLT, M8X 65 PLATED	1							
23	1	119620-49290	COCK ASSY, 1/4	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	129612-42340	V-BELT, A36	1							

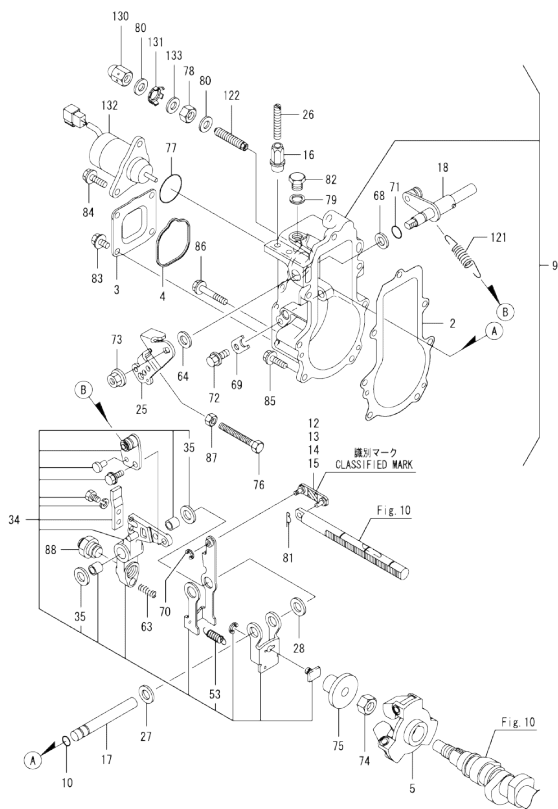
Fig.10. FUEL INJECTION PUMP



N:Old $\xleftrightarrow{\text{Yes/No}}$ New, Q:Old $\xleftrightarrow{\text{No/Yes}}$ New, R:Old $\xleftrightarrow{\text{Yes/Yes}}$ New, S:Old $\xleftrightarrow{\text{No/No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.11. GOVERNOR



Remarks

*This figure(Governor)is incorporated in the Fuel Injection Pump (Fig.10).

(1)Selective parts, mark; 3

(2)Selective parts, mark; 98

(3)Selective parts, mark; 88

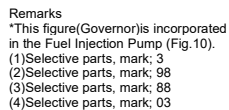
(4)Selective parts, mark; 03

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
2	2	119717-61050	GASKET	1							
3	2	119717-61060	COVER, GOVERNOR CASE	1							
4	2	119717-61070	GASKET	1							
5	2	119717-61200	WEIGHT ASSY,GOVERNOR	1							
5-1	2	119717-61201	WEIGHT ASSY,GOVERNOR	1							R
(A=EXXXXX)											
9	2	119515-61300	CASE ASSY, GOVERNOR	1							
10	3	129155-51280	O-RING, S6	1							
12	3	119717-61120	LINK, MARK :3	1							1
13	3	119717-61130	LINK, MARK 98	1							2
14	3	119717-61140	LINK, MARK 88	1							3
15	3	119717-61150	LINK, MARK 03	1							4
16	3	129209-61370	NUT, M6	1							
17	3	129052-61390	SHAFT	1							
18	3	119415-61400	SHAFT ASSY	1							
18-1	3	119415-61401	SHAFT ASSY, CONTROL	1							N
(A=E62801)											
25	3	119515-61440	LEVER, CONTROL	1							
26	3	129155-61450	BOLT, LIMITER	1							
26-1	3	121575-66830	SCREW	1							R
(A=EXXXXX)											
27	3	129156-61460	SHIM, T=0.6	1							
28	3	129155-61480	SPACER ASSY	1							
34	3	119516-61500	LEVER ASSY, GOVERNOR	1							
35	4	174307-51700	SHIM SET	2							
53	4	129486-61540	SPRING, SET	1							
63	3	129486-61650	SPRING, STARTING	1							
64	3	158552-61700	SHIM SET	1							
68	3	158552-61710	SHIM, T=1.0	1							
69	3	119660-61901	RETAINER, SHAFT	1							
70	3	22272-000030	RING, E- 3	1							
71	3	24341-000070	O-RING, 1AS7.0	1							
72	3	26106-060102	BOLT, M6X 10 PLATED	1							
73	3	26366-080002	NUT, M8	1							
74	2	129008-61301	NUT	1							
75	2	129155-61341	SLEEVE	1							
76	2	171353-61460	BOLT, IDLE	1							
77	2	158552-61900	O-RING	1							
78	2	129209-61920	NUT, ARB	1							
79	2	22190-100002	WASHER, SEAL 10	1							
80	2	22190-120002	WASHER, SEAL 12	2							
81	2	22372-040000	PIN, SNAP 4	1							
82	2	23887-100002	PLUG, 10	1							
82-1	2	119717-51930	PLUG,M10	1							R
(A=EXXXXX)											
83	2	26106-060102	BOLT, M6X 10 PLATED	4							
84	2	26106-060142	BOLT, M6X 14 PLATED	2							
85	2	26106-060202	BOLT, M6X 20 PLATED	4							
86	2	26106-060452	BOLT, M6X 45 PLATED	3							
87	2	26756-060002	NUT, LOCK M6	1							
88	2	119740-61550	ANGLEICH ASSY	1							

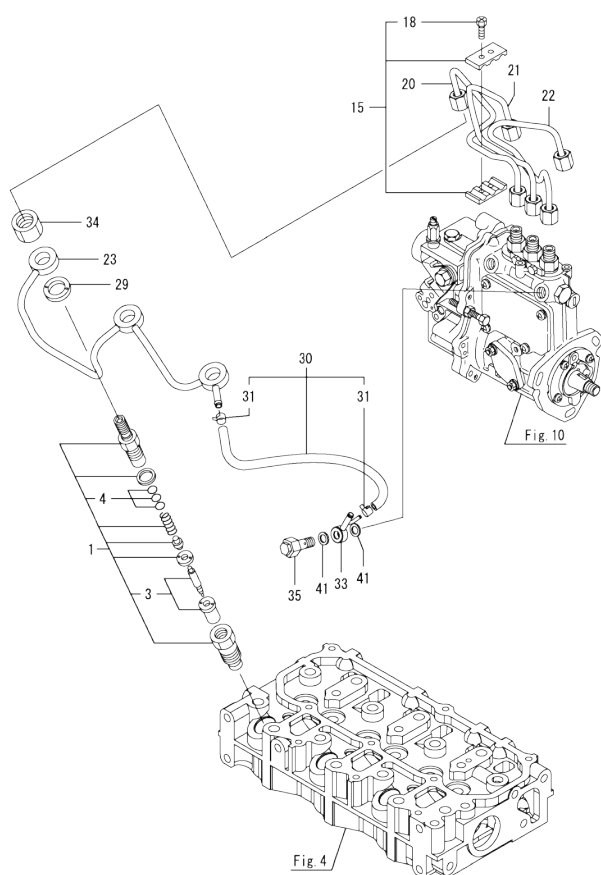
N:Old $\xrightarrow{\text{100}} \text{New}$, Q:Old $\xrightarrow{\text{100}} \text{New}$, R:Old $\xrightarrow{\text{100}} \text{New}$, S:Old $\xrightarrow{\text{100}} \text{New}$, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change

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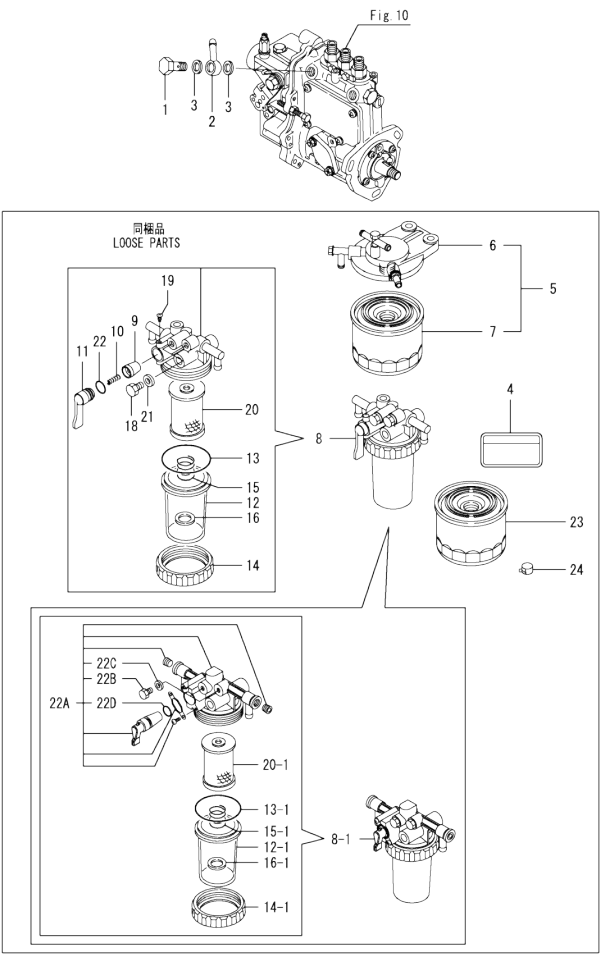
N:Old $\frac{\text{Yes}}{\text{No}}$ New. Q:Old $\frac{\text{No}}{\text{Yes}}$ New. R:Old $\frac{\text{Yes}}{\text{Yes}}$ New. S:Old $\frac{\text{No}}{\text{No}}$ New. W:Add. Z:Discontinued. F:Interchangeable by set. K:Qty Change



				(A)=3TNV70-XHT (B)= (C)=	(D)= (E)= (F)=					I	R
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119515-53001	VALVE ASSY,INJECTION	3							
3	2	119515-53010	VALVE ASSY,INJECTION	3							
4	2	129901-53800	SHIM SET, ADJUSTING	3							
15	1	129150-59120	RETAINER, PIPE	1							
18	2	129150-59131	BOLT, M4X14	2							
20	1	119546-59810	PIPE ASSY, INJECTION	1							
21	1	119546-59820	PIPE ASSY, INJECTION	1							
22	1	119546-59830	PIPE ASSY, INJECTION	1							
23	1	119515-59540	PIPE ASSY, RETURN	1							
29	1	129901-59560	GASKET	3							
30	1	119540-59570	PIPE ASSY, RETURN	1							
31	2	124066-59100	CLIP, HOSE 8	2							
33	1	119840-59570	JOINT	1							
34	1	119620-59700	NUT, NOZZLE	3							
35	1	119813-59950	VALVE ASSY, CHECK	1							
41	1	22190-120002	WASHER, SEAL 12	2							

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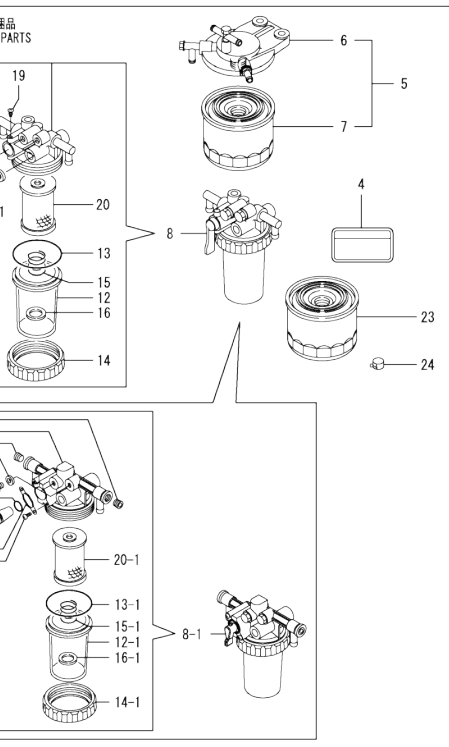
Fig.13. FUEL FILTER



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	103854-39140	BOLT, PIPE JOINT	1							
2	1	101304-59020	JOINT, PIPE 12	1							
3	1	22190-120002	WASHER, SEAL 12	2							
4	1	114110-07760	LABEL, FUEL CAUTION	1							
4-1	1	114110-07761	LABEL, FUEL OIL CAUT	1						N	
(A=E62801)											
5	1	129940-55601	FILTER ASSY, FUEL	1							
6	2	129004-55612	BRACKET, FILTER	1							
7	2	119802-55801	FILTER, FUEL	1							
8	1	129335-55700	SEPARATOR ASSY,WATER	1							
8-1	1	129335-55750	SEPARATOR ASSY,WATER	1						N	
(A=E62801)											
9	2	104200-55321	VALVE, TAPER	1						Z	
(A=E62801)											
10	2	104200-55330	SPRING, VALVE	1						Z	
(A=E62801)											
11	2	104200-55341	HANDLE	1						Z	
(A=E62801)											
12	2	124064-55510	COVER	1							
12-1	2	129335-55740	CUP	1						S	
(A=E62801)											
13	2	102103-55520	O-RING	1						S	
13-1	2	24311-000440	O-RING, 1AP4.0	1						S	
(A=E62801)											
14	2	110250-55610	RING, RETAINING	1						S	
14-1	2	119833-55660	RING, RETAINING	1						S	
(A=E62801)											
15	2	121257-55720	SPRING	1						S	
15-1	2	129053-55650	SPRING, SCREEN	1						S	
(A=E62801)											
16	2	121257-55731	FLOAT	1						S	
16-1	2	129053-55640	FLOAT	1						S	
(A=E62801)											
18	2	101720-55750	PLUG, 6	2						Z	
(A=E62801)											
19	2	104200-55750	SCREW, M4	1						Z	
(A=E62801)											
20	2	171081-55910	SCREEN	1						S	
20-1	2	129335-55780	ELEMENT ASSY	1						S	
(A=E62801)											
21	2	23418-060000	GASKET, 6X1.0	2						Z	
(A=E62801)											
22	2	24311-240100	O-RING, 1AP10A	1						Z	
(A=E62801)											
22A	2	129335-55770	BODY ASSY	1						W	
(A=E62801)											
22B	3	129242-55750	VALVE, AIR VENT	2						W	
(A=E62801)											
22C	3	129242-55760	GASKET	2						W	
(A=E62801)											
22D	3	24311-000110	O-RING, 1AP11.0	1						W	

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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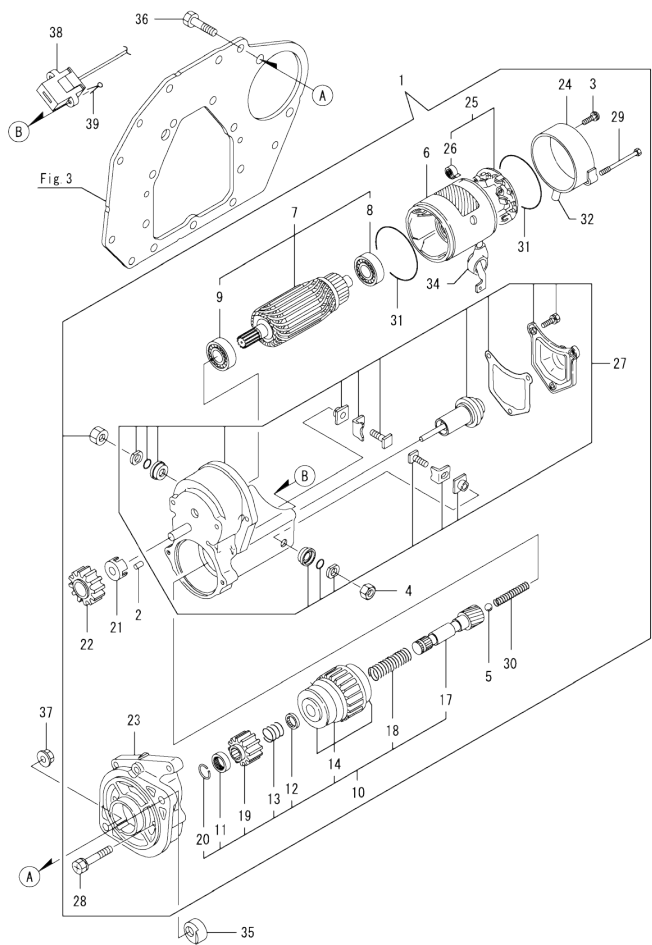
Fig.13. FUEL FILTER

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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

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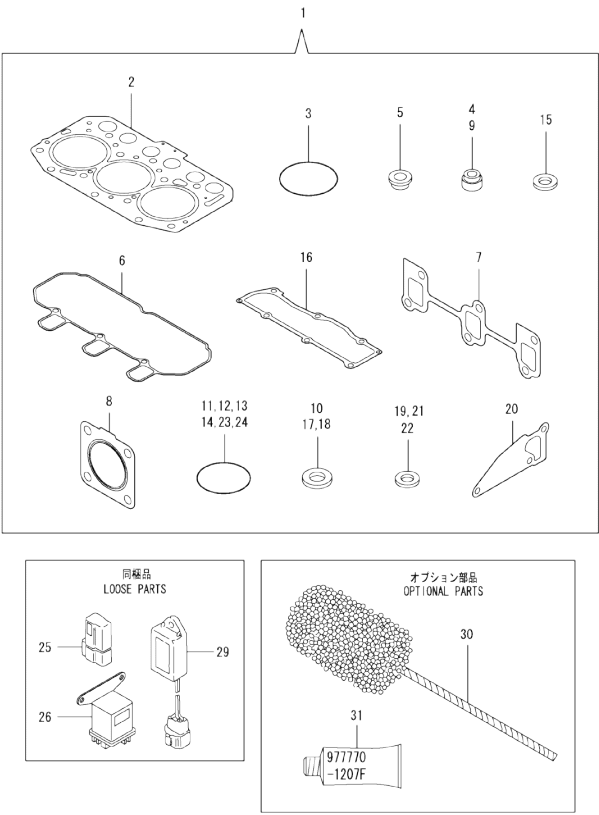
Fig.14. STARTING MOTOR



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129129-77010	STARTER ASSY	1							
2	2	X0283060061	ROLLER	5							
3	2	129129-77460	SCREW	2							
4	2	X9490561370	NUT	1							
5	2	X9491200240	BALL	1							
6	2	129129-77210	YOKE ASSY	1							
7	2	129129-77220	ARMATURE ASSY	1							
8	3	129129-77230	BEARING, BALL	1							
9	3	129129-77240	BEARING, BALL	1							
10	2	129129-77250	STARTER	1							
11	3	X0280210230	NUT	1							
12	3	X0283270140	RETAINER	1							
13	3	X9491703371	SPRING, COIL	1							
14	3	129129-77390	CLUTCH ASSY	1							
17	3	129129-77400	SHAFT	1							
18	3	129129-77410	SPRING, COIL	1							
19	3	129129-77420	PINION, STARTER	1							
20	3	129129-77430	RING	1							
21	2	129129-77260	RETAINER	1							
22	2	129129-77270	PINION	1							
23	2	129129-77280	HOUSING	1							
24	2	129129-77290	FRAME	1							
25	2	129129-77300	HOLDER ASSY	1							
26	3	X9491730461	SPRING	4							
27	2	129129-77310	SWITCH ASSY	1							
28	2	129129-77320	BOLT	2							
29	2	129129-77330	BOLT	2							
30	2	129129-77340	SPRING	1							
31	2	129129-77350	O-RING	2							
32	2	129129-77362	COVER	1							
34	2	129129-77380	CAP	1							
35	1	119285-77050	NUT	1							
36	1	26156-120302	BOLT, M12X 30 PLATED	2							
37	1	26376-120002	NUT, M12	1							
37-1	1	26736-120002	NUT, M12	1							N
(A=E48498)											
38	1	119643-77900	CONNECTOR, STARTER	1							
39	1	22411-200250	COTTER PIN 2.0X25	1							

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Fig.15. GASKET SET



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719515-92780	GASKET SET	1							1
2	2	119515-01330	GASKET, HEAD	1							
2-1	2	119515-01331	GASKET, HEAD	1						N	
(A=EXXXXX)											
3	2	121850-51960	O-RING	1							
4	2	119717-11340	SEAL, VALVE STEM	3							
5	2	129901-11450	PROTECTOR, NOZZLE	3							
6	2	119515-11310	GASKET, BONNET	1							
7	2	119717-13110	GASKET	1							
8	2	119515-13200	GASKET, SILENCER	1							
9	2	119717-11350	SEAL, VALVE STEM	3							
10	2	22190-080002	WASHER, SEAL 6	4							
11	2	24311-000320	O-RING, 1AP32.0	2							
12	2	119717-32060	O-RING, P15.0	1							
13	2	119624-32040	O-RING, P12.0	1							
14	2	119717-32050	O-RING, P17.0	3							
15	2	119600-11460	GASKET, NOZZLE	6							
16	2	119515-11330	GASKET	1							
17	2	22190-220002	WASHER, SEAL 22	1							
18	2	22190-120002	WASHER, SEAL 12	4							
19	2	129901-59560	GASKET	3							
20	2	119515-42020	GASKET, WATER PUMP	1							
21	2	23414-080000	GASKET, 8X1.0	1							
22	2	124465-44950	GASKET, 16	2							
23	2	24341-000240	O-RING, 1AS24.0	1							
24	2	24341-000400	O-RING, 1AS40.0	1							
25	1	119643-66900	DIODE	1							
26	1	119650-77910	RELAY ASSY, GLOW	1							
26-1	1	119650-77911	RELAY ASSY, GLOW	1						N	
(A=EXXXXX)											
29	1	129211-77920	TIMER	1							
30	1	129400-92410	HONE	1							1
31	1	977770-1207F	GASKET LIQUID	1							1

Remarks

(1)Optional parts.

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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104200-55330	13	10
104200-55341	13	11
104200-55750	13	19
105010-11490	4	6
105027-12570	16	5
105311-01090	1	4
110250-55610	13	14
114110-07760	13	4
114110-07761	13	4 -1
114250-39450	8	12
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119226-07900	4	1
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119285-01580	3	5
119285-01990	1	6
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119515-01200	1	29
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119515-01331	1	30 -1
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119515-01740	3	11
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119515-59540	12	23
119515-61300	11	9
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119516-11380	4	37
119516-22020	7	14
119516-22030	7	31
119516-61500	11	34
119516-61700	11	121
119540-59570	12	30
119546-59810	12	20
119546-59820	12	21
119546-59830	12	22
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119620-01620	3	6
119620-02020	1	7
119620-14200	6	1
119620-21500	7	10
119620-21941	7	9
119620-49290	9	23
119620-59700	12	34
119621-21680	7	8
119621-21681	7	8 -1
119623-01250	1	5
119624-32040	2	18
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119626-12502	16	1
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