

0CW10-M67900EN

P R E F A C E

1. This parts catalog is the 1st edition of 3TNV70-XZN for ZANOTTI.

Pub.No. : 0CW10-G67900

Published : September, 2010

2. Model name

Engine model	Vehicle	Vehicle made by
3TNV70-XZN	REFRIGERATOR	ZANOTTI

Directions for the Parts Catalog.

- 1.The parts stipulated in this Parts Catalog are not necessarily standard equipped 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)

1

REF.

2

LEV.

PARTS NO.

DESCRIPTION

(A)=4JH-DT
(B)=4JH-DTZ
(C)=4JH-DTZP

(D)=4JH-DTZA
(E)=4JH-DTZY
(F)=

Q'TY

(A) (B) (C) (D) (E) (F)

3

I

5

R

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 Mark

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 Mark

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

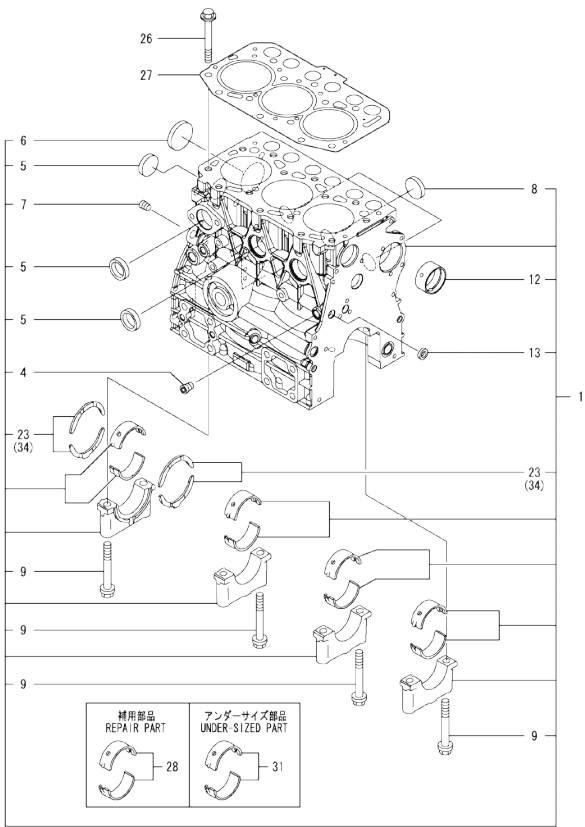
The comments (remarks) on parts that are indicated at the bottom of the illustration are the same symbols as those stated above.

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0CW10-M67900

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15.	(3A)FLYWHEEL HOUSING & OIL SUMP		
4.	CYLINDER HEAD & BONNET		
5.	EXHAUST MANIFOLD		
6.	CAMSHAFT & DRIVING GEAR		
7.	CRANKSHAFT & PISTON		
8.	LUB. OIL SYSTEM		
16.	(8A)LUB. OIL SYSTEM		
9.	COOLING WATER SYSTEM		
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11.	GOVERNOR		
12.	FUEL INJECTION VALVE		
13.	STARTER MOTOR		
17.	(13A)STARTER MOTOR		
18.	(13B)STARTER MOTOR		
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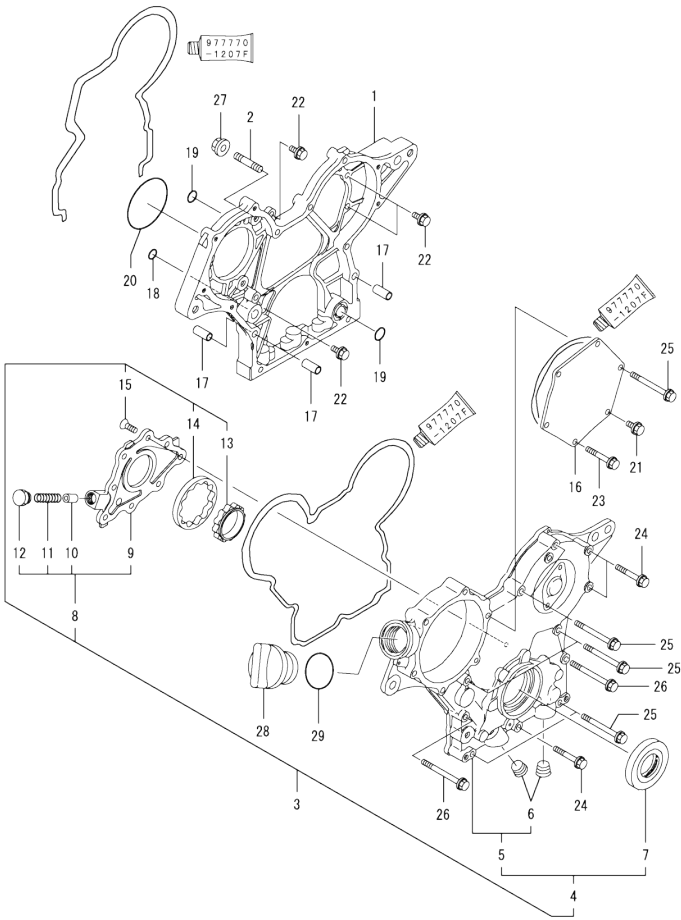
Fig.1. CYLINDER BLOCK



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

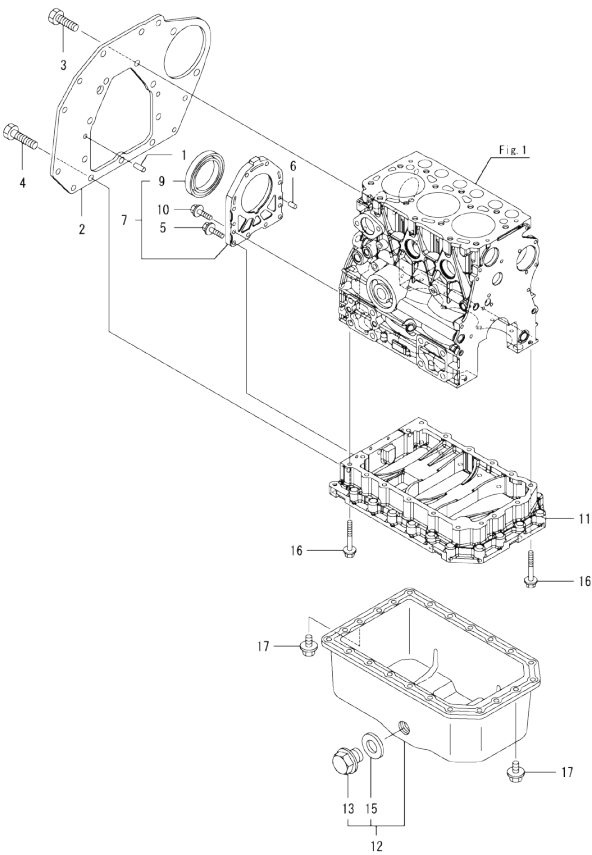
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719515-01560	BLOCK ASSY, CYLINDER	1							
4	2	124060-01050	PLUG, PT1/8	1							
5	2	105311-01090	PLUG, 30	4							
6	2	119623-01250	PLUG, 45	1							
7	2	124160-01910	PLUG, PT1/4	1							
8	2	119285-01990	PLUG, 25	3							
9	2	119620-02020	BOLT, METAL CAP	8							
12	2	119717-02411	BUSH, CAMSHAFT	1							
13	2	27241-120000	PLUG, 12	1							
23	2	119717-02930	METAL ASSY, THRUST	2							
26	1	119515-01200	BOLT, CYLINDER HEAD	14							
27	1	119515-01330	GASKET, HEAD	1							
28	1	719717-02901	METAL ASSY, MAIN	4							1
31	1	719717-02911	METAL ASSY, MAIN .25	4							2
34	1	119810-02941	METAL ASSY, 0.25 OS	2							3

Fig.2. GEAR HOUSING



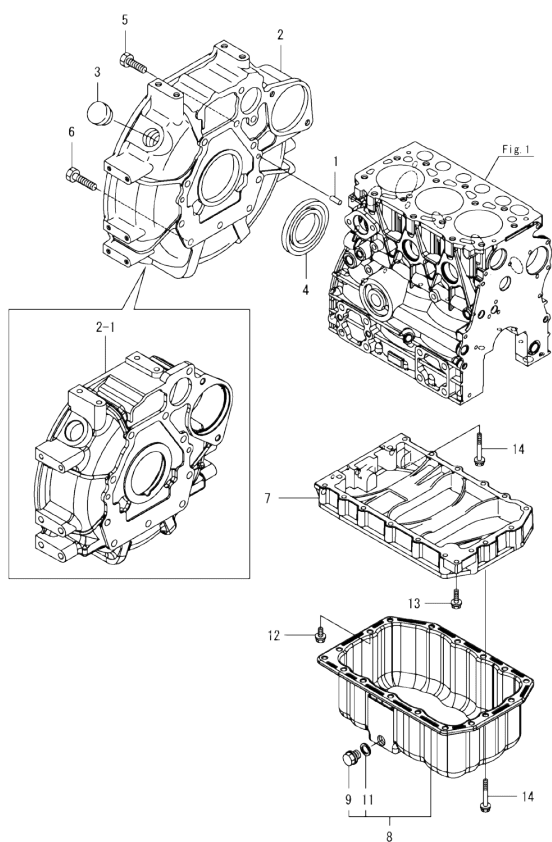
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119717-01501	CASE, GEAR	1							
2	1	119717-01570	STUD	3							
3	1	119734-01590	COVER ASSY, CASE	1							
4	2	719734-01500	COVER ASSY, CASE	1							
5	3	119717-01521	COVER, GEAR CASE	1							
6	4	23876-030000	PLUG, R03	2							
7	3	119717-01800	SEAL, OIL	1							
8	2	119717-32100	COVER ASSY, PUMP	1							
9	3	119717-32080	COVER, OIL PUMP	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, PUMP	1							
17	1	119660-01911	PIPE, KNOCK 6X17	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, FUEL PUMP	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	CAP, FILLER	1							
29	1	24311-000320	O-RING, 1AP32.0	1							

Fig.3. MOUNTING FLANGE & OIL SUMP



Remarks
* This item is applicable to [(A)=EL2670] or previous machines(Refer to Fig.15,18).

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	119717-01640	FLANGE, MOUNTING	1							
3	1	26206-100202	BOLT, M10X 20 PLATED	7							
4	1	26206-100252	BOLT, M10X 25 PLATED	3							
5	1	119285-01580	BOLT, M46X22	4							
6	1	119620-01620	PIN, PARALLEL M6X10	2							
7	1	119718-01640	CASE ASSY, OIL SEAL	1							
9	2	119734-02220	SEAL, OIL WHEEL SIDE	1							
10	1	26106-060222	BOLT, M6X 22 PLATED	6							
11	1	119515-01740	SPACER, OIL PAN	1							
12	1	119810-01770	OIL PAN ASSY	1							
13	2	119640-01640	PLUG, DRAIN M22	1							
15	2	22190-220002	WASHER, SEAL 22	1							
16	1	26106-060452	BOLT, M6X 45 PLATED	17							
17	1	26106-080122	BOLT, M8X 12 PLATED	22							



Remarks

* This item is applicable to I(A)=EL26711 or following machines(Refer to Fig.3).

0CW10-M67900 Fig.15

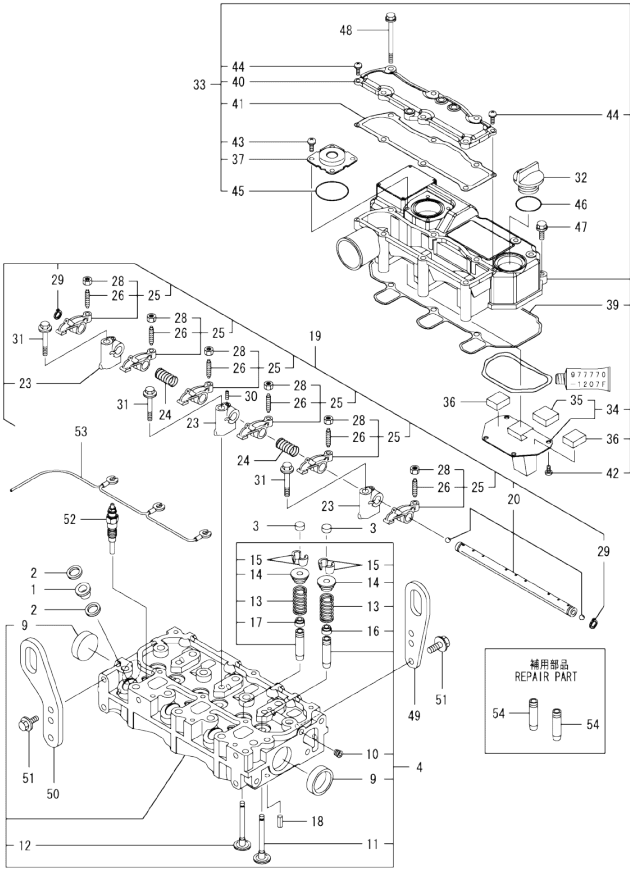
(A)=3TNV70-XZN
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	129100-01580	PIN, PARALLEL 8X16	2							
2	1	119717-01601	HOUSING, FLYWHEEL	1							
2-1	1	119515-01601	HOUSING, FLYWHEEL	1							N
(A=EL7533)											
3	1	119620-01750	CAP, WHEEL COVER	1							
4	1	119734-02220	SEAL, OIL WHEEL SIDE	1							
5	1	26206-100252	BOLT, M10X 25 PLATED	8							
5-1	1	26206-100252	BOLT, M10X 25 PLATED	7							K
(A=EL7533)											
6	1	26206-100302	BOLT, M10X 30 PLATED	3							
7	1	119515-01720	SPACER, OIL PAN	1							
8	1	119546-01770	OIL PAN ASSY	1							
9	2	105425-01690	PLUG, DRAIN M16	1							
11	2	22190-160002	WASHER, SEAL 16	1							
12	1	26106-060122	BOLT, M6X 12 PLATED	1							
13	1	26106-060252	BOLT, M6X 25 PLATED	1							
14	1	26106-060452	BOLT, M6X 45 PLATED	17							

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 & BONNET



Remarks
(1)Spare parts.

(A)=3TNV70-XZN
(B)=
(C)=

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

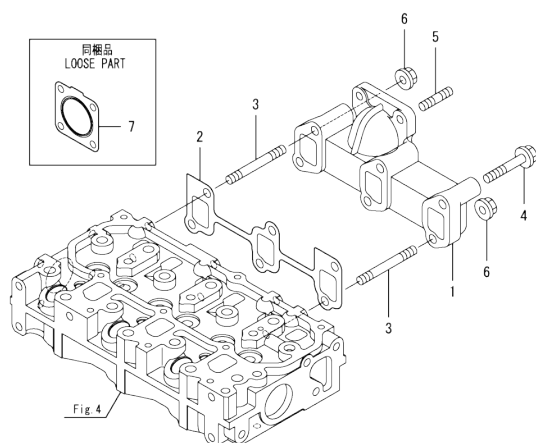
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129901-11450	PROTECTOR, NOZZLE	3							
2	1	119600-11460	GASKET, NOZZLE	6							
3	1	105010-11490	CAP, VALVE	6							
4	1	119515-11740	HEAD ASSY, CYLINDER	1							
9	2	119285-11990	PLUG, 35	2							
10	2	23876-005000	PLUG, R005	1							
11	2	119515-11101	VALVE, INTAKE	3							
12	2	119515-11110	VALVE, EXHAUST	3							
13	2	119717-11131	SPRING, VALVE	6							
14	2	129508-11180	RETAINER, SPRING	6							
15	2	119717-11190	COTTER, VALVE	12							
16	2	119717-11340	SEAL, VALVE STEM	3							
17	2	119717-11350	SEAL, VALVE STEM	3							
18	1	22351-060012	PIN, SPRING 6.0X12	2							
19	1	119515-11200	SUPPORT ASSY, ROCKER	1							
20	2	119515-11240	SHAFT ASSY, ARM	1							
23	2	119717-11260	SUPPORT, ROCKER ARM	3							
24	2	119515-11280	SPRING, SHAFT	2							
25	2	119717-11650	ARM ASSY, ROCKER INT	6							
26	3	129150-11230	SCREW, VALVE ADJUST	6							
28	3	129150-11750	NUT, M8XP1.0	6							
29	2	22242-000120	RING, 12	2							
30	2	26979-050162	SCREW, M5X16	1							
31	1	26106-080402	BOLT, M8X 40 PLATED	3							
32	1	124160-01751	CAP, FILLER	1							
33	1	119516-11380	BONNET ASSY, HEAD	1							
34	2	119717-03031	PLATE, BAFFLE	1							
35	3	119717-03070	BAFFLE, BREATHER	1							
36	2	119717-03070	BAFFLE, BREATHER	2							
37	2	129006-03120	COVER, DIAPHRAGM	1							
39	2	119515-11310	GASKET, BONNET	1							
40	2	119515-11320	COVER, BONNET	1							
41	2	119515-11330	GASKET, BONNET COVER	1							
42	2	22857-500100	SCREW, 5X10	4							
43	2	22857-500100	SCREW, 5X10	4							
44	2	22857-500160	SCREW, 5X16	2							
45	2	24341-000400	O-RING, 1AS40.0	1							
46	1	24311-000320	O-RING, 1AP32.0	1							
47	1	26106-060202	BOLT, M6X 20 PLATED	3							
48	1	26106-060752	BOLT, M6X 75 PLATED	6							
49	1	119226-07900	LIFTER, ENGINE	1							
50	1	129486-07901	LIFTER, ENGINE	1							
51	1	26106-080142	BOLT, M8X 14 PLATED	4							
52	1	119718-77800	PLUG, GLOW	3							
53	1	119717-77820	CONNECTOR, GLOW PLUG	1							
54	1	119515-11800	GUIDE, VALVE	6							1

Fig.5. EXHAUST MANIFOLD

(D)=
(E)=

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

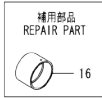
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	119718-13100	MANIFOLD, EXHAUST	1							
2	1	119717-13110	GASKET, MANIFOLD	1							
3	1	119717-13600	STUD, M8X50	2							
4	1	119802-13620	BOLT, M8X50	4							
5	1	119131-18320	STUD, M8X22	4							
6	1	26306-080002	NUT, M8	2							
7	1	119515-13200	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



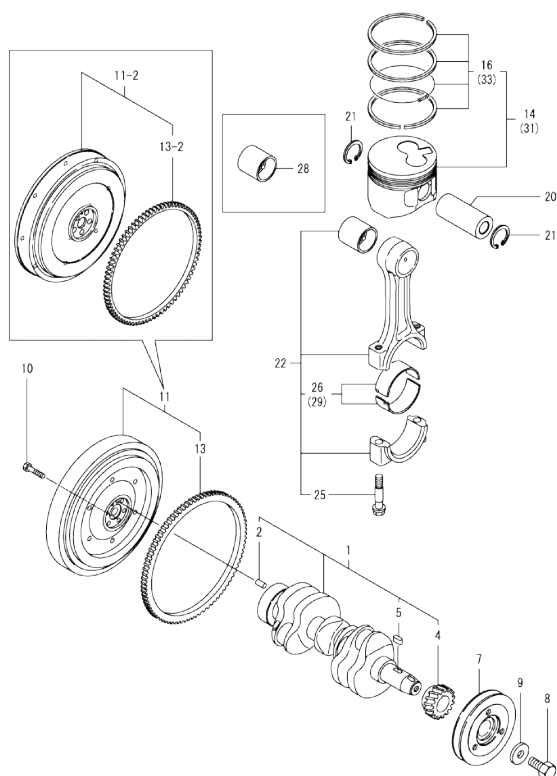
N:Old ^{Yes}/_{No} New. Q:Old ^{No}/_{Yes} New. R:Old ^{Yes}/_{Yes} New. S:Old ^{No}/_{No} New. W:Add. Z:Discontinued. F:Interchangeable by set. K:Qty Change

(A)=3TNV70-XZN
(B)=
(C)=

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

 Q^*

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	119620-14200	TAPPET	6							
2	1	119515-14400	ROD, PUSH	6							
3	1	119515-14581	CAMSHAFT ASSY	1							
8	1	26106-060122	BOLT, M6X 12 PLATED	2							
9	1	119717-25050	SHAFT, IDLE GEAR	1							
10	1	119717-25101	GEAR ASSY, IDLE	1							
13	1	26106-060352	BOLT, M6X 35 PLATED	3							
14	1	129150-25301	BOLT, INJECTION PUMP	4							
15	1	119717-25930	GEAR, PUMP	1							
16	1	119717-25911	BUSH, IDLE GEAR	1							1



Remarks

(1) Spare parts.

(2) Under-sized (U.S.=0.25) part.

(3) Over-sized (O.S.=0.25) part.

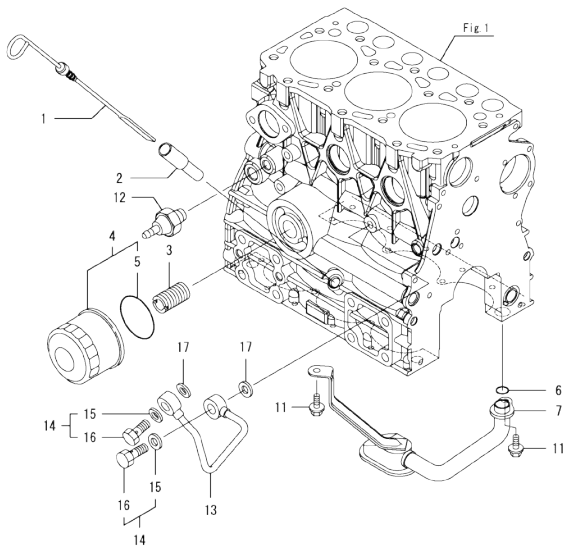
(4) No.10, 11 & 13 is interchangeable with a set of No.10-1, 11-1 & 13-1.

(5) No.10-1, 11-1 & 13-1 is interchangeable with a set of No.10-2, 11-2 & 13-2.

				(A)=3TNV70-XZN (B)= (C)=	0CW10-M67900 Fig.7 (D)= (E)= (F)=					
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I R
1	1	119515-21700	CRANKSHAFT ASSY	1						
2	2	129100-01580	PIN, PARALLEL 8X16	1						
4	2	119717-21200	GEAR, CRANKSHAFT	1						
5	2	22512-040120	KEY, 4X 12	1						
7	1	119515-21650	V-PULLEY, CRANKSHAFT	1						
8	1	119621-21681	BOLT, FLANGE 12X1.25	1						
9	1	119620-21941	WASHER, 12	1						
10	1	119620-21500	BOLT, FLYWHEEL	5						
10-1	1	121111-21501	BOLT, FLYWHEEL	5						F 4
(A=EL2671)										
10-2	1	119620-21500	BOLT, FLYWHEEL	5						F 5
(A=EL7533)										
11	1	119385-21580	FLYWHEEL ASSY	1						
11-1	1	119636-21590	FLYWHEEL ASSY	1						F 4
(A=EL2671)										
11-2	1	119515-21580	FLYWHEEL ASSY	1						F 5
(A=EL7533)										
13	2	124060-21600	GEAR, RING Z=105	1						
13-1	2	119865-21600	GEAR, RING Z=116	1						F 4
(A=EL2671)										
13-2	2	124950-21600	GEAR, RING Z=97	1						F 5
(A=EL7533)										
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	METAL ASSY, CRANK PIN	3						
28	1	119717-23910	METAL, PISTON PIN	3						
29	1	119515-23611	METAL ASSY, PIN .25	3						1
31	1	119516-22030	PISTON ASSY, 0.25 OS	3						3
33	2	119515-22550	RING SET, PISTON .25	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

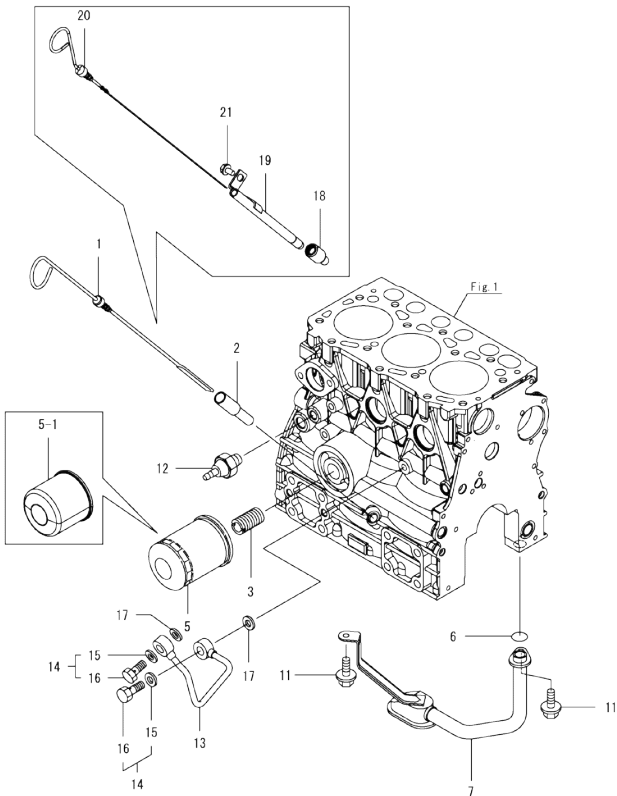
Fig.8. LUB. OIL SYSTEM



Remarks
* This item is applicable to [(A)=EL2670] or previous machines(Refer to Fig.16).

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119515-34801	DIPSTICK, OIL	1							
2	1	121520-34810	GUIDE, DIPSTICK	1							
3	1	119717-35140	STUD	1							
4	1	119660-35150	FILTER ASSY, D80XL75	1							
5	2	124450-35110	O-RING, OIL FILTER	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, HYDRAULIC	1							
13	1	119717-39210	PIPE, PUMP	1							
14	1	129005-59830	BOLT ASSY, JOINT M8	2							
15	2	22190-080002	WASHER, SEAL 8	2							
16	2	23857-030000	BOLT, JOINT 3	2							
17	1	22190-080002	WASHER, SEAL 8	2							

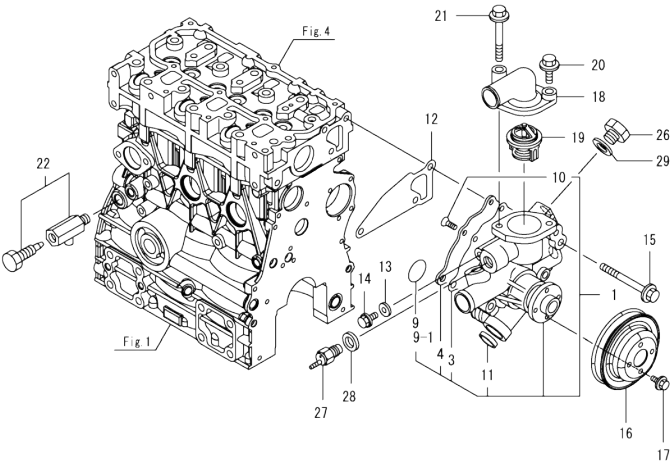
Fig.16. (8A)LUB. OIL SYSTEM



Remarks
* This item is applicable to [(A)=EL2671] or following machines(Refer to Fig.8).
(1)Spare parts.

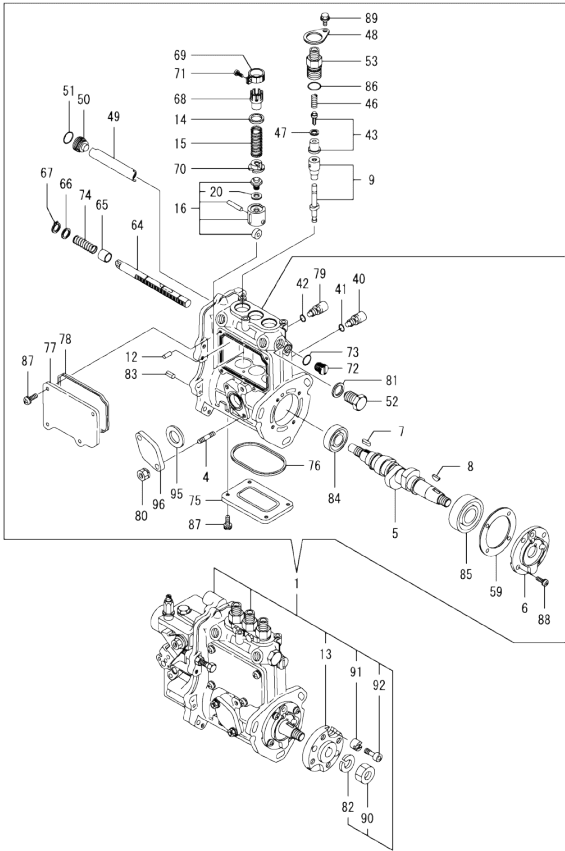
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119546-34801 (A=EL7533)	DIPSTICK, OIL	1						Z	
2	1	121520-34810 (A=EL7533)	GUIDE, DIPSTICK	1						Z	
3	1	119717-35140 (A=EL7533)	STUD	1							1
5	1	129242-35110	FILTER, OIL	1							
5-1	1	119305-35151 (A=EL7533)	FILTER ASSY, D68XL65	1						N	1
6	1	119717-32060	O-RING, P15.0	1							
7	1	119546-35080	PIPE ASSY, OIL INLET	1							
11	1	26106-060102	BOLT, M6X 10 PLATED	2							
12	1	114250-39450	SWITCH, HYDRAULIC	1							
13	1	119717-39210	PIPE, PUMP	1							
14	1	129005-59830	BOLT ASSY, JOINT M8	2							
15	2	22190-080002	WASHER, SEAL 8	2							
16	2	23857-030000	BOLT, JOINT 3	2							
17	1	22190-080002	WASHER, SEAL 8	2							
18	1	119260-34810	GUIDE, DIPSTICK	1							W
19	1	119534-34810 (A=EL7533)	GUIDE, DIPSTICK	1							W
20	1	119546-34810 (A=EL7533)	DIPSTICK, LUB.OIL	1							W
21	1	26106-060102 (A=EL7533)	BOLT, M6X 10 PLATED	1							W

Fig.9. COOLING WATER SYSTEM



				0CW10-M67900 Fig.9							
				(A)=3TNV70-XZN		(D)=		(E)=			
				(B)=		(F)=		(E)=			
				(C)=				(F)=			
						Q'ty					
						(A)		(B)			
						(C)		(D)			
						(E)		(F)			
										I R	
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119515-42001	PUMP ASSY, WATER	1							
1-1	1	119515-42002	PUMP ASSY, WATER	1							N
(A=*2012.03.)											
3	2	119717-42031	GASKET, WATER PUMP	1							
4	2	119515-42041	COVER, WATER PUMP	1							
9	2	119717-42320	O-RING, P26	1							
9-1	2	119C10-42320	O-RING, 2028	1							S
(A=*2012.03.)											
10	2	26577-060122	SCREW, M6X12	4							
11	2	27241-250000	PLUG, 25	1							
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, PUMP D=100	1							Z
(A=EL7533)											
17	1	26106-060122	BOLT, M6X 12 PLATED	4							Z
(A=EL7533)											
18	1	124101-49531	COVER, THERMOSTAT	1							
19	1	119717-49800	THERMOSTAT, 71C	1							
20	1	26106-080252	BOLT, M8X 25 PLATED	1							
21	1	26106-080652	BOLT, M8X 65 PLATED	1							
22	1	119620-49290	COCK ASSY, 1/4	1							
26	1	121450-42450	PLUG, M16	1							
27	1	121250-44901	SWITCH, TEMPERATURE	1							
28	1	124465-44950	GASKET, 16	1							
29	1	124465-44950	GASKET, 16	1							

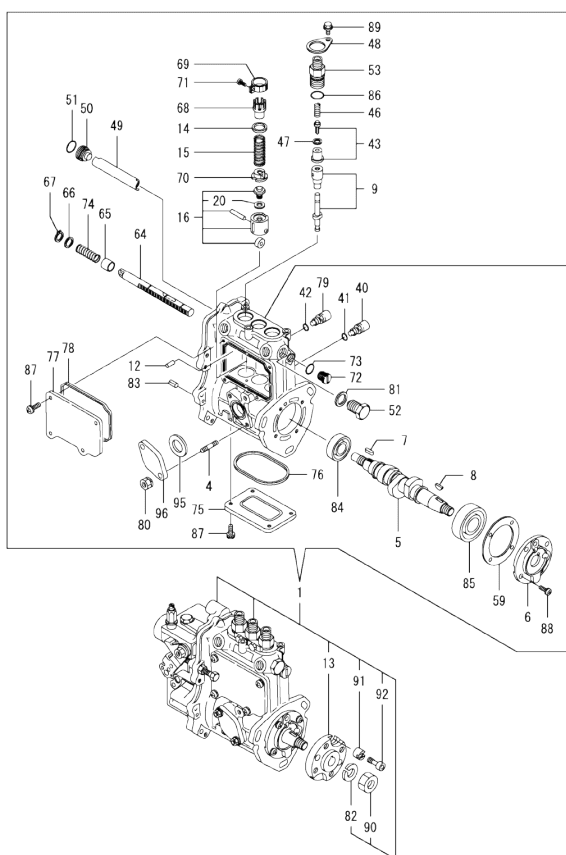
Fig.10. FUEL INJECTION PUMP



Remarks
(1)Governor(Fig.11) is incorporated in this Fuel Injection Pump(No.1).

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719515-51390	PUMP ASSY, INJECTION	1							1
4	2	129155-51020	STUD		2						
5	2	119717-51030	CAMSHAFT, PUMP	1							
6	2	119717-51060	SUPPORT, CAMSHAFT	1							
7	2	119717-51070	KEY, PARALLEL	1							
8	2	122710-51090	KEY, FEATHER	1							
9	2	119515-51100	PLUNGER ASSY	3							
12	2	129155-51140	PIN, BARREL LOCK	3							
13	2	119717-51150	FLANGE, CAMSHAFT	1							
14	2	158600-51170	RETAINER, SPRING	3							
15	2	119717-51190	SPRING, PLUNGER	3							
16	2	119717-51200	TAPPET ASSY, ROLLER	3							
20	3	129155-51600	SHIM SET, ADJUSTING	3							
40	2	158600-51270	STOPPER, TAPPET	3							
41	2	129155-51280	O-RING, S6	3							
42	2	129155-51280	O-RING, S6	1							
43	2	119717-51300	VALVE ASSY, DELIVERY	3							
46	2	119717-51330	SPRING, DELIVERY	3							
47	2	124550-51350	GASKET, DELIVERY	3							
48	2	119125-51370	RETAINER, HOLDER	3							
49	2	129155-51400	PROTECTOR	1							
50	2	158600-51410	PLUG, DEFLIFTER M12	1							
51	2	119717-51420	O-RING	1							
52	2	158600-51420	PLUG, DEFLIFTER M16	1							
53	2	158600-51442	VALVE ASSY, DELIVERY	3							
59	2	129155-51450	SHIM SET, ADJUSTING	1							
64	2	119717-51500	RACK, CONTROL	1							
65	2	129155-51521	BUSH, RACK	1							
66	2	129155-51530	SPACER, SPRING	1							
67	2	129155-51540	CIRCLIP, C	1							
68	2	129155-51550	PINION, CONTROL	3							
69	2	129100-51560	PINION	3							
70	2	119717-51570	RETAINER, SPRING	3							
71	2	129100-51570	SCREW, PINION M4	3							
72	2	158600-51570	PLUG, RACK	1							
73	2	129155-51580	O-RING	1							
74	2	129155-51591	SPRING, RACK ASSIST	1							
75	2	129155-51701	COVER, PUMP BOTTOM	1							
76	2	119717-51711	GASKET, PUMP	1							
77	2	119717-51750	COVER, BODY SIDE	1							
78	2	119717-51761	GASKET, PUMP COVER	1							
79	2	158600-51790	STOPPER, RACK	1							
80	2	119717-51860	NUT, M6	2							
81	2	22190-160002	WASHER, SEAL 16	1							
82	2	22217-120000	WASHER, SPRING 12	1							
83	2	22351-050010	PIN, SPRING 5.0X10	2							
84	2	24101-060034	BEARING, BALL 6003	1							
85	2	24101-063034	BEARING, BALL 6303	1							
86	2	24316-000150	O-RING, 4DP15.0	3							
87	2	26022-050122	SCREW, M5X12	8							
88	2	26022-060162	SCREW, M6X16	4							

N:Old $\frac{New}{Old}$ New, O:Old $\frac{New}{Old}$ New, R:Old $\frac{New}{Old}$ New, S:Old $\frac{New}{Old}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
++ CONTINUE ++
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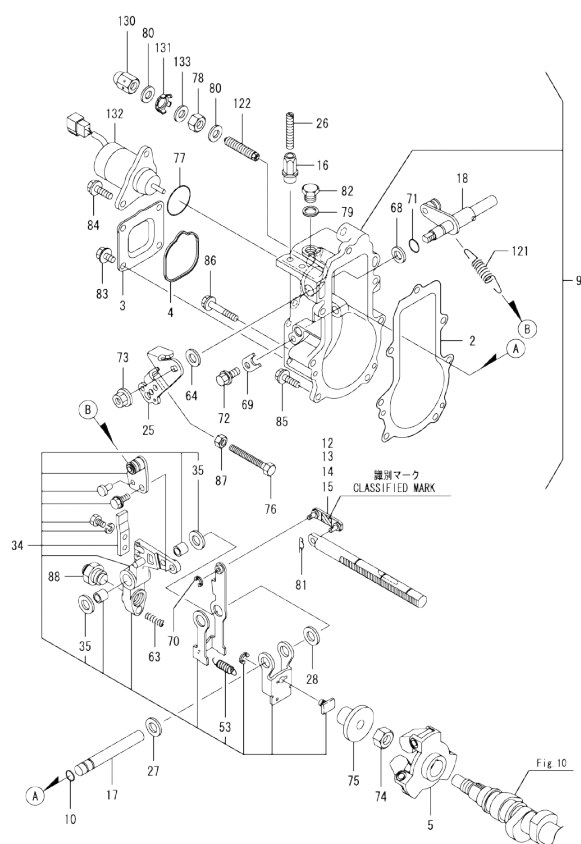


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
89	2	26106-050102	BOLT, M5X 10 PLATED	3							
90	2	26716-120002	NUT, M12	1							
91	2	119717-51480	COLLAR	1							
92	2	119717-51490	BOLT	1							
95	2	129155-52051	GASKET, PUMP COVER	1							
96	2	129100-52200	COVER, FEED PUMP	1							

Remarks

(1) Governor (Fig.11) is incorporated in this Fuel Injection Pump (No.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:Qty Change
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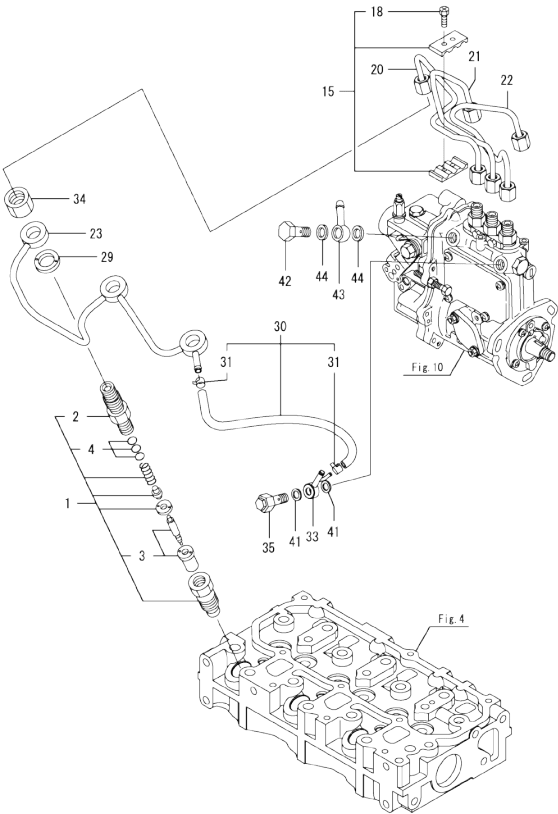
Certain the classification mark, then place your order(Refer to illustration).

				(A)=3TNV70-XZN (B)= (C)=							(D)= (E)= (F)=		
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	Q'ty	I	R	
2	2	119717-61050	GASKET, CASE	1									
3	2	119717-61060	COVER, GOVERNOR CASE	1									
4	2	119717-61070	GASKET, COVER	1									
5	2	119717-61201	WEIGHT ASSY,GOVERNOR	1									
9	2	119515-61300	CASE ASSY, GOVERNOR	1									
10	3	129155-51280	O-RING, S6	1									
12	3	119717-61120	LINK, L=29.3 MARK 3	1									
13	3	119717-61130	LINK, L=29.8 MARK 98	1									
14	3	119717-61140	LINK, L=28.8 MARK 88	1									
15	3	119717-61150	LINK, L=30.3 MARK 03	1									
16	3	129209-61370	NUT, ARB M6	1									
17	3	129052-61390	SHAFT,GOVERNOR LEVER	1									
18	3	119415-61401	SHAFT ASSY, LEVER	1									
25	3	119515-61440	LEVER, CONTROL	1									
26	3	129155-61450	BOLT, LIMITER	1									
27	3	129156-61460	SHIM, LEVER T=0.6	1									
28	3	129155-61480	SPACER ASSY, LEVER	1									
34	3	119516-61500	LEVER ASSY, GOVERNOR	1									
35	4	174307-51700	SHIM SET, PLUNGER	2									
53	4	129486-61540	SPRING, LEVER	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	STOPPER, 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, SUPPORT	1									
75	2	129155-61341	SLEEVE	1									
76	2	171353-61460	BOLT, IDLE LIMIT	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									
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									
121	2	119516-61700	SPRING, GOVERNOR	1									
122	2	158601-61710	LIMITER ASSY, FUEL	1									
130	2	129209-61930	NUT	1									
131	2	129209-61970	PLATE	1									
132	2	119233-77932	SOLENOID, STOP	1									
133	2	23414-120016	GASKET, 12X1.0	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.12. FUEL INJECTION VALVE



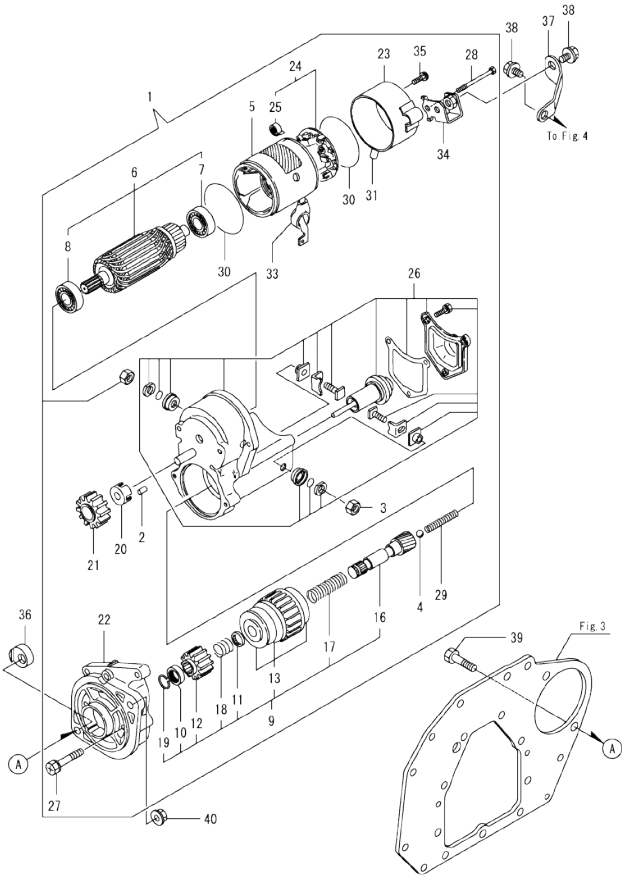
(A)=3TNV70-XZN
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119515-53001	VALVE ASSY,INJECTION	3							
2	2	118200-53010	HOLDER, NOZZLE	3							
3	2	119515-53010	VALVE ASSY,INJECTION	3							
4	2	129901-53800	SHIM SET, ADJUSTING	3							1
15	1	129150-59120	RETAINER, PIPE	1							
18	2	129150-59131	BOLT, M4X14	2							
20	1	119546-59810	PIPE, INJECTION NO.1	1							
21	1	119546-59820	PIPE, INJECTION NO.2	1							
22	1	119546-59830	PIPE, INJECTION NO.3	1							
23	1	119515-59540	PIPE ASSY, RETURN	1							
29	1	129901-59560	GASKET, FUEL RETURN	3							
30	1	119540-59570	HOSE ASSY, RETURN	1							
31	2	124066-59100	CLAMP, HOSE 8	2							
33	1	119840-59570	JOINT, OVERFLOW	1							
34	1	119620-59700	NUT, NOZZLE RETURN	3							
35	1	119813-59950	VALVE ASSY, CHECK	1							
41	1	22190-120002	WASHER, SEAL 12	2							
42	1	103854-39140	BOLT, PIPE JOINT	1							
43	1	101304-59020	JOINT, PIPE 12	1							
44	1	22190-120002	WASHER, SEAL 12	2							

Remarks
(1)Spare parts.

Fig.13. STARTER MOTOR



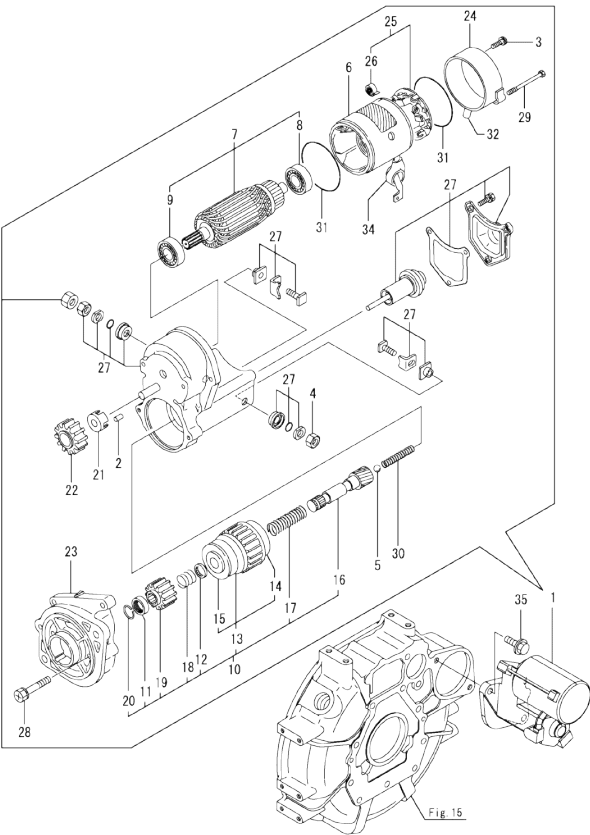
Remarks
* This item is applicable to [(A)=EL2670] or previous machines(Refer to Fig.17,18).

(A)=3TNV70-XZN
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119209-77010	STARTER, 1.4 R	1							
2	2	X0283060061	ROLLER	5							
3	2	X9490561370	NUT	1							
4	2	X9491200240	BALL, STEEL	1							
5	2	129407-77210	YOKE ASSY	1							
6	2	129407-77220	ARMATURE ASSY	1							
7	3	129129-77230	BEARING, BALL	1							
8	3	129129-77240	BEARING, BALL	1							
9	2	121120-77250	STARTER	1							
10	3	X0280210230	NUT, PINION STOP	1							
11	3	X0283270140	RETAINER, SNAP	1							
12	3	X0283711770	PINION, STARTER	1							
13	3	129129-77390	CLUTCH ASSY, STARTER	1							
16	3	129129-77400	SHAFT, STARTER	1							
17	3	129129-77410	SPRING, COIL	1							
18	3	129407-77410	SPRING, COIL	1							
19	3	129129-77430	RING, SNAP	1							
20	2	129129-77260	RETAINER	1							
21	2	129129-77270	PINION	1							
22	2	119209-77280	HOUSING	1							
23	2	129407-77290	FRAME	1							
24	2	129407-77300	HOLDER ASSY	1							
25	3	X9491730461	SPRING, BRUSH	4							
26	2	119209-77310	SWITCH ASSY, MAGNET	1							
27	2	129129-77320	BOLT, W/WASHER	2							
28	2	129407-77330	BOLT	2							
29	2	129129-77340	SPRING	1							
30	2	129129-77350	O-RING	2							
31	2	129129-77362	COVER	1							
33	2	129129-77380	CAP	1							
34	2	119209-77460	STAY	1							
35	2	129129-77460	SCREW	2							
36	1	119285-77050	NUT, STARTER	1							
37	1	119516-77910	SUPPORT, STARTER	1							
38	1	26106-080122	BOLT, M8X 12 PLATED	2							
39	1	26156-120302	BOLT, M12X 30 PLATED	2							
40	1	26736-120002	NUT, M12	1							

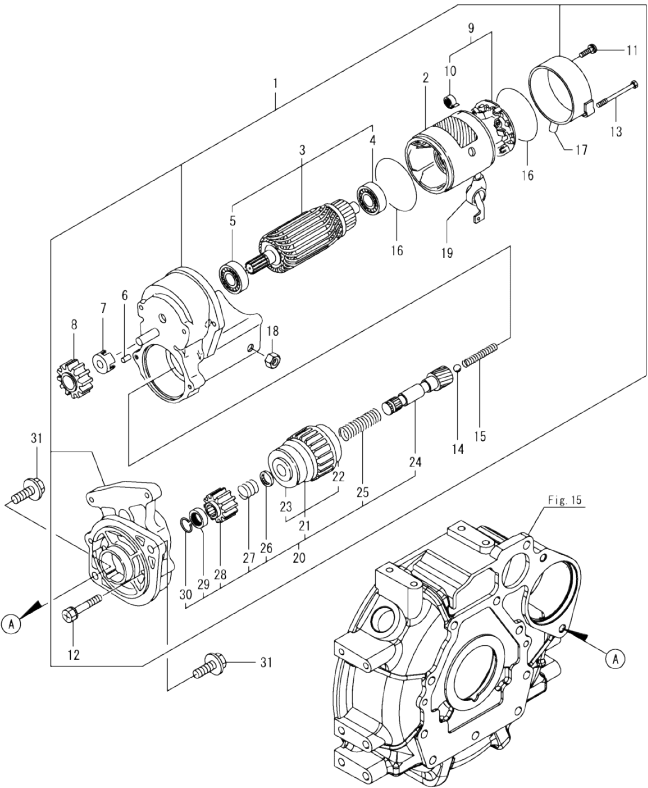
Fig.17. (13A)STARTER MOTOR



Remarks
* This item is applicable to [(A)=EL2671] through [(A)=EL7532](Refer to Fig.13,18).

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119740-77020	STARTER, RA1.4	1							
2	2	X0283060061	ROLLER	5							
3	2	129129-77460	SCREW	2							
4	2	X9490561370	NUT	1							
5	2	X9491200240	BALL, STEEL	1							
6	2	129407-77210	YOKE ASSY	1							
7	2	129407-77220	ARMATURE ASSY	1							
8	3	129129-77230	BEARING, BALL	1							
9	3	129129-77240	BEARING, BALL	1							
10	2	X1280996600	STARTER KIT	1							
11	3	X0280210230	NUT, PINION STOP	1							
12	3	X0283270140	RETAINER, SNAP	1							
13	3	129129-77390	CLUTCH ASSY, STARTER	1							
14	4	129129-77440	BEARING, BALL	1							
15	4	129129-77450	BEARING, BALL	1							
16	3	129129-77400	SHAFT, STARTER	1							
17	3	129129-77410	SPRING, COIL	1							
18	3	129407-77410	SPRING, COIL	1							
19	3	X0283712350	PINION, STARTER	1							
20	3	129129-77430	RING, SNAP	1							
21	2	129129-77260	RETAINER	1							
22	2	129129-77270	PINION	1							
23	2	X4284003310	HOUSING	1							
24	2	129407-77290	FRAME	1							
25	2	129407-77300	HOLDER ASSY	1							
26	3	X9491730461	SPRING, BRUSH	4							
27	2	X1534004151	SWITCH ASSY	1							
28	2	129129-77320	BOLT, W/WASHER	2							
29	2	129407-77330	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	26106-100252	BOLT, M10X 25 PLATED	2							

Fig.18. (13B)STARTER MOTOR



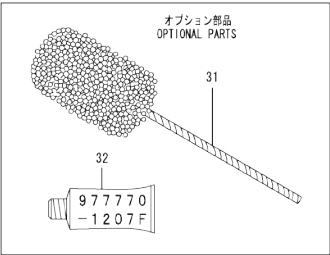
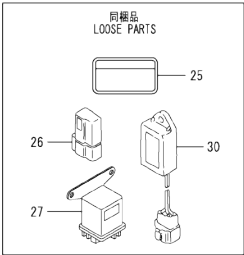
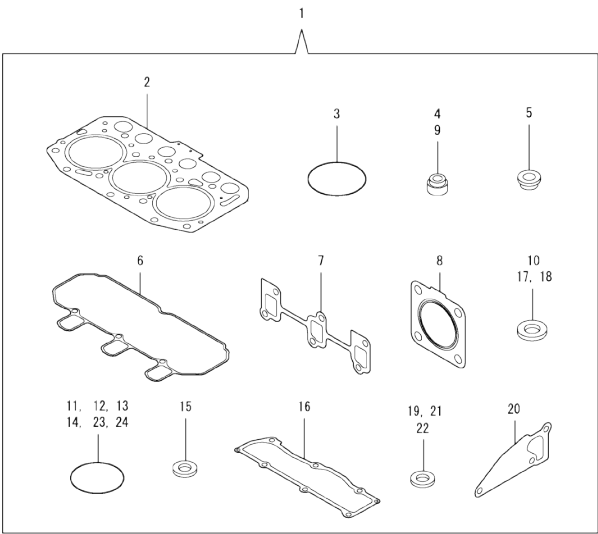
Remarks
* This item is applicable to [(A)=EL7533] or following machines(Refer to Fig.13,17).

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119540-77010	STARTER, RA1.4		1						
2	2	129407-77210	YOKE ASSY		1						
3	2	129407-77220	ARMATURE ASSY		1						
4	3	129129-77230	BEARING, BALL		1						
5	3	129129-77240	BEARING, BALL		1						
6	2	X0283060061	ROLLER		5						
7	2	129129-77260	RETAINER		1						
8	2	129129-77270	PINION		1						
9	2	129407-77300	HOLDER ASSY		1						
10	3	X9491730461	SPRING, BRUSH		4						
11	2	129129-77460	SCREW		2						
12	2	129129-77320	BOLT, W/WASHER		2						
13	2	129407-77330	BOLT		2						
14	2	X9491200240	BALL, STEEL		1						
15	2	129129-77340	SPRING		1						
16	2	129129-77350	O-RING		2						
17	2	129129-77362	COVER		1						
18	2	X9490561370	NUT		1						
19	2	129129-77380	CAP		1						
20	2	X1280996600	STARTER KIT		1						
21	3	129129-77390	CLUTCH ASSY, STARTER		1						
22	4	129129-77440	BEARING, BALL		1						
23	4	129129-77450	BEARING, BALL		1						
24	3	129129-77400	SHAFT, STARTER		1						
25	3	129129-77410	SPRING, COIL		1						
26	3	X0283270140	RETAINER, SNAP		1						
27	3	129407-77410	SPRING, COIL		1						
28	3	X0283712350	PINION, STARTER		1						
29	3	X0280210230	NUT, PINION STOP		1						
30	3	129129-77430	RING, SNAP		1						
31	1	26106-100252	BOLT, M10X 25 PLATED		2						

Fig.14. GASKET SET

(A)=3TNV70-XZN
(B)=
(C)=

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



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							
3	2	121850-51960	O-RING, FUEL PUMP	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, MANIFOLD	1							
8	2	119515-13200	GASKET, SILENCER	1							
9	2	119717-11350	SEAL, VALVE STEM	3							
10	2	22190-080002	WASHER, SEAL 8	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, BONNET COVER	1							
17	2	22190-220002	WASHER, SEAL 22	1							
18	2	22190-120002	WASHER, SEAL 12	4							
19	2	129901-59560	GASKET, FUEL RETURN	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	114110-07760	LABEL, FUEL CAUTION	1							
26	1	119643-66900	DIODE	1							
27	1	119650-77910	RELAY ASSY, GLOW	1							
30	1	129211-77920	TIMER, SECTION 1	1							
31	1	129400-92410	HONE, FLEX	1							1
32	1	977770-1207F	GASKET, LIQUID	1							1

Remarks
(1)Optional parts.

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105425-01690	15	9
114110-07760	14	25
114250-39450	8	12
	16	12
118200-53010	12	2
119125-51370	10	48
119131-18320	5	5
119209-77010	13	1
119209-77280	13	22
119209-77310	13	26
119209-77460	13	34
119226-07900	4	49
119233-77932	11	132
119260-34810	16	18
119285-01580	3	5
119285-01990	1	8
119285-11990	4	9
119285-77050	13	36
119305-35151	16	5 -1
119385-21580	7	11
119415-61401	11	18
119515-01200	1	26
119515-01330	1	27
	14	2
119515-01601	15	2 -1
119515-01720	15	7
119515-01740	3	11
119515-11101	4	11
119515-11110	4	12
119515-11200	4	19
119515-11240	4	20
119515-11280	4	24
119515-11310	4	39
	14	6
119515-11320	4	40
119515-11330	4	41
	14	16
119515-11740	4	4
119515-11800	4	54
119515-13200	5	7
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119515-14400	6	2
119515-14581	6	3
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119515-21700	7	1

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119515-23611	7	29
119515-34801	8	1
119515-35080	8	7
119515-42001	9	1
119515-42002	9	1 -1
119515-42020	9	12
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119515-42041	9	4
119515-51100	10	9
119515-53001	12	1
119515-53010	12	3
119515-59540	12	23
119515-61300	11	9
119515-61440	11	25
119516-11380	4	33
119516-22020	7	14
119516-22030	7	31
119516-61500	11	34
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119534-34810	16	19
119540-59570	12	30
119540-77010	18	1
119546-01770	15	8
119546-34801	16	1
119546-34810	16	20
119546-35080	16	7
119546-59810	12	20
119546-59820	12	21
119546-59830	12	22
119600-11460	4	2
	14	15
119620-01620	3	6
119620-01750	15	3
119620-02020	1	9
119620-14200	6	1
119620-21500	7	10
		10 -2
119620-21941	7	9
119620-49290	9	22
119620-59700	12	34
119621-21681	7	8
119623-01250	1	6
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119717-01501	2	1
119717-01521	2	5
119717-01570	2	2
119717-01601	15	2
119717-01640	3	2
119717-01750	2	16
119717-01800	2	7
119717-02411	1	12
119717-02930	1	23
119717-03031	4	34
119717-03070	4	35
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119717-11190	4	15
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119717-11340	4	16
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119717-11350	4	17
	14	9
119717-11650	4	25
119717-13110	5	2
	14	7
119717-13600	5	3
119717-21200	7	4
119717-23200	7	25
119717-23910	7	28
119717-25050	6	9
119717-25101	6	10
119717-25911	6	16
119717-25930	6	15
119717-32050	2	19
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119717-32080	2	9
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119717-32110	2	13
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119717-49800	9	19
119717-51030	10	5
119717-51060	10	6
119717-51070	10	7
119717-51150	10	13
119717-51190	10	15
119717-51200	10	16
119717-51300	10	43
119717-51330	10	46
119717-51420	10	51
119717-51480	10	91
119717-51490	10	92
119717-51500	10	64
119717-51570	10	70
119717-51711	10	76
119717-51750	10	77
119717-51761	10	78
119717-51860	10	80
119717-61050	11	2
119717-61060	11	3
119717-61070	11	4
119717-61120	11	12
119717-61130	11	13
119717-61140	11	14
119717-61150	11	15
119717-61201	11	5
119717-77820	4	53
119718-01640	3	7
119718-13100	5	1
119718-77800	4	52
119734-01590	2	3
119734-02220	3	9
	15	4
119740-61550	11	88
119740-77020	17	1
119802-13620	5	4
119802-32130	2	15
119810-01770	3	12
119810-02941	1	34
119813-59950	12	35
119840-59570	12	33
119865-21600	7	13 -1
119C10-42320	9	9 -1
121111-21501	7	10 -1
121120-77250	13	9
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124060-01050	1	4
124060-21600	7	13
124066-59100	12	31
124101-49531	9	18
124160-01751	2	28
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124160-01910	1	7
124450-35110	8	5
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124550-51350	10	47
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129001-32320	2	11
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129005-59830	8	14
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129100-51560	10	69
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129129-77440	17	14
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129150-11230	4	26
129150-11750	4	28
129150-25301	6	14
129150-59120	12	15
129150-59131	12	18
129155-51020	10	4
129155-51140	10	12
129155-51280	10	41
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129155-51400	10	49
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129209-61970	11	131
129211-77920	14	30
129242-35110	16	5
129400-92410	14	31
129407-77210	13	5
	17	6
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129407-77220	13	6
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129407-77290	13	23
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129407-77300	13	24
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129407-77330	13	28
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129407-77410	13	18
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129486-07901	4	50
129486-61540	11	53
129486-61650	11	63
129508-11180	4	14
129900-32130	2	10
129901-11450	4	1
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129901-53800	12	4
129901-59560	12	29
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158552-61710	11	68
158552-61900	11	77
158600-51170	10	14
158600-51270	10	40
158600-51410	10	50
158600-51420	10	52
158600-51442	10	53
158600-51570	10	72
158600-51790	10	79
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22190-220002	3	15
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24341-000240	14	23
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26106-060352	6	13
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26106-060452	3	16
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26106-060602	2	25
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26106-080252	9	20
26106-080402	4	31
26106-080502	9	15
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26106-100252	17	35
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26206-100252	3	4
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26206-100302	15	6
26306-080002	2	27
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26366-080002	11	73
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26716-120002	10	90
26736-120002	13	40
26756-060002	11	87
26979-050162	4	30
27241-120000	1	13
27241-250000	9	11
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	17	12
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X0283711770	13	12
X0283712350	17	19
	18	28
X1280996600	17	10
	18	20
X1534004151	17	27
X4284003310	17	23
X9490561370	13	3
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X9491200240	13	4
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X9491730461	13	25
	17	26
	18	10