

0CF10-M64501EN

Introduction

1. This parts catalog for 3YM27A, 3YM30R is published as a revised edition.

	Date of issue	Remarks
First edition	Sep., 2012	No need
1st revised edition	Dec., 2018	

2. This parts catalog does not contain the technical data needed for maintenance service.

3. The illustrations used in this parts catalog have been simplified for clarity.

4. The contents of this parts catalog are subject to change without notice.

5. Be sure to use only Yanmar genuine parts for repairs. If imitation parts are used, it may cause engine defects.

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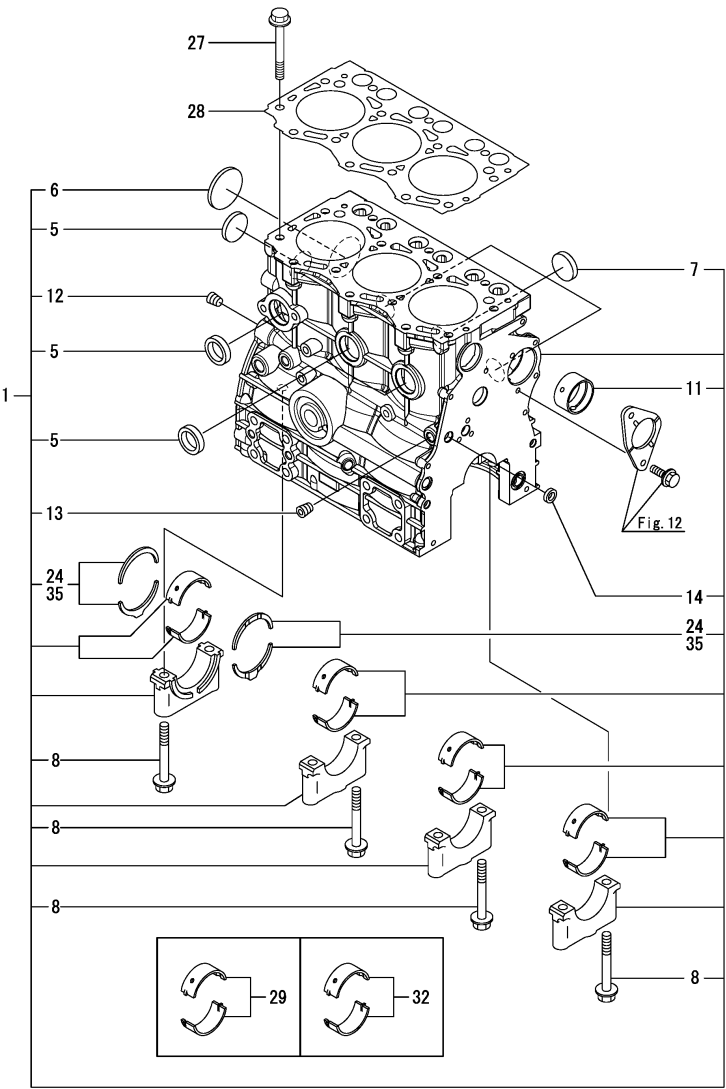
ENGINE

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2. GEAR HOUSING
3. FLYWHEEL HOUSING
4. OIL SUMP
5. MIST SEPARATOR
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7. LABEL
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17. COOLING PUMP(FRESH WATER)
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19. COOLING PIPE(SEA WATER)
20. COOLING PIPE(FRESH WATER)
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22. FUEL INJECTION PUMP
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Fig. No. Fig. Name

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27. CABLE SUPPORT & REMOTE CONTROL HEAD
28. CLUTCH
29. CLUTCH(REMOTE CONTROL)
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32. GENERATOR
33. WIRE HARNESS & RELAY
34. HEATER
35. INSTRUMENT PANEL
36. TOOL
37. GASKET SET(OPTIONAL)

Fig.1. CYLINDER BLOCK

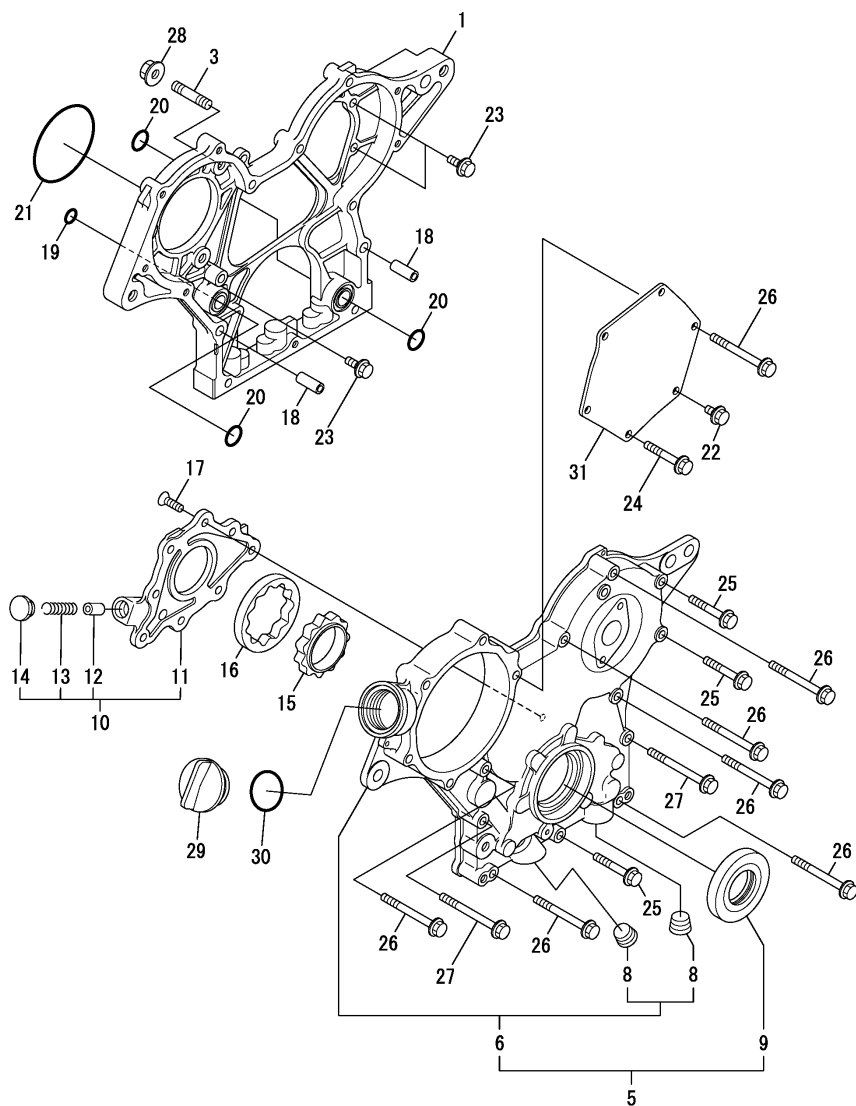


Remarks
(1)Spare parts.
(2)Under-sized(U.S.=0.25) parts.
(3)Over-sized(O.S.=0.25) parts.

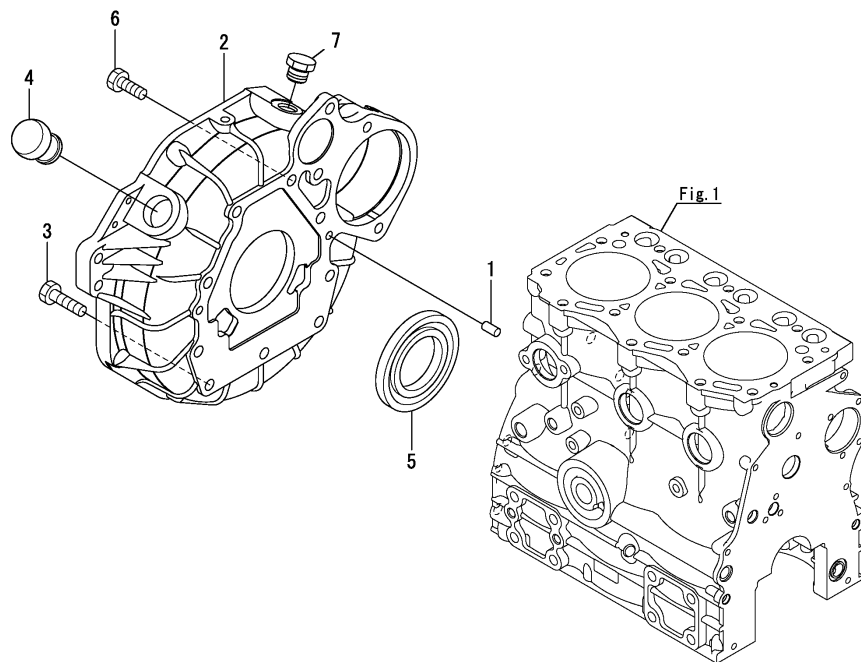
OCF10-M64501 Fig.1

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719717-01561	BLOCK ASSY, CYLINDER	1	1						
5	3	105311-01090	PLUG, 30	4	4						
6	3	119623-01250	PLUG, 45	1	1						
7	3	119285-01990	PLUG, 25	3	3						
8	3	119620-02020	BOLT, METAL CAP	8	8						
11	3	119717-02411	BUSH, CAMSHAFT	1	1						
12	2	124160-01910	PLUG, PT1/4	1	1						
13	2	124060-01050	PLUG, PT1/8	1	1						
14	2	27241-120000	PLUG, 12	1	1						
24	2	119717-02930	METAL ASSY, THRUST	2	2						
27	1	119810-01200	BOLT, CYLINDER HEAD	14	14						
28	1	119717-01331	GASKET, HEAD	1	1						
29	1	719717-02901	METAL ASSY, MAIN	4	4						1
32	1	719717-02911	METAL ASSY, MAIN .25	4	4						2
35	1	119810-02941	METAL ASSY, 0.25 OS	2	2						3

Fig.2. GEAR HOUSING

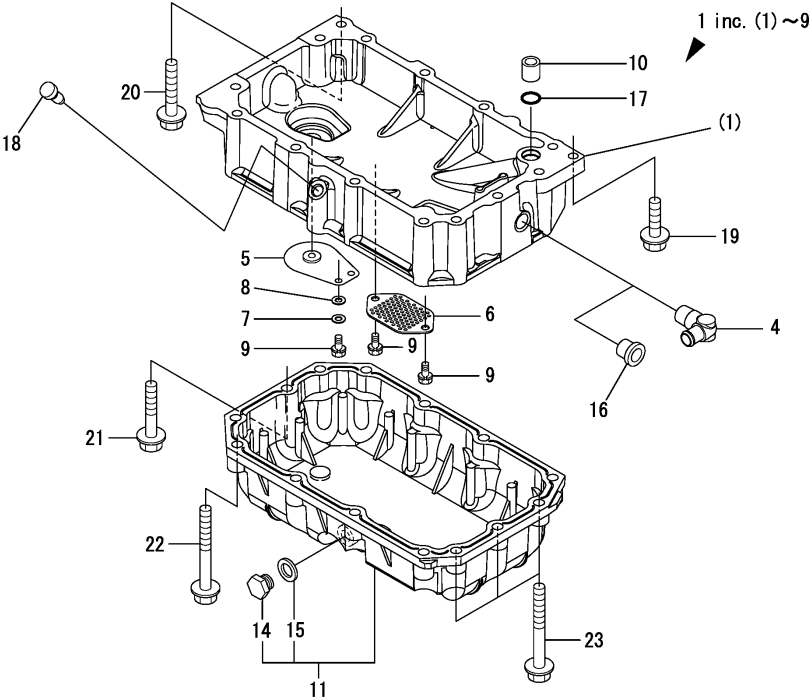


No.	Lev.	Parts No.	Description	Q'ty					
				(A)	(B)	(C)	(D)	(E)	(F)
1	1	119717-01501	CASE, GEAR	1	1				
3	1	119717-01570	STUD	3	3				
5	1	719717-01500	COVER ASSY, CASE	1	1				
6	2	119717-01521	COVER, GEAR CASE	1	1				
8	3	23876-030000	PLUG, R03	2	2				
9	2	119620-01800	SEAL, OIL HTC456208	1	1				
10	1	119717-32100	COVER ASSY, PUMP	1	1				
11	2	119717-32080	COVER, OIL PUMP	1	1				
12	2	129900-32130	VALVE, RELIEF	1	1				
13	2	129001-32320	SPRING	1	1				
14	2	129001-32330	PLUG	1	1				
15	1	119717-32110	ROTOR, INNER	1	1				
16	1	119717-32120	ROTOR, OUTER	1	1				
17	1	119802-32130	SCREW, M6X16	8	8				
18	1	119660-01911	PIPE, KNOCK 6X17	4	4				
19	1	119624-32040	O-RING, P12.0	1	1				
20	1	119717-32050	O-RING, P17.0	3	3				
21	1	121850-51960	O-RING, FUEL PUMP	1	1				
22	1	26106-060122	BOLT, M6X 12 PLATED	1	1				
23	1	26106-060162	BOLT, M6X 16 PLATED	4	4				
24	1	26106-060402	BOLT, M6X 40 PLATED	4	4				
25	1	26106-060402	BOLT, M6X 40 PLATED	3	3				
26	1	26106-060602	BOLT, M6X 60 PLATED	7	7				
27	1	26106-060652	BOLT, M6X 65 PLATED	2	2				
28	1	26306-080002	NUT, M8	3	3				
29	1	124160-01751	CAP, FILLER	1	1				
30	1	24311-000320	O-RING, 1AP32.0	1	1				
31	1	119717-01750	COVER, PUMP	1	1				

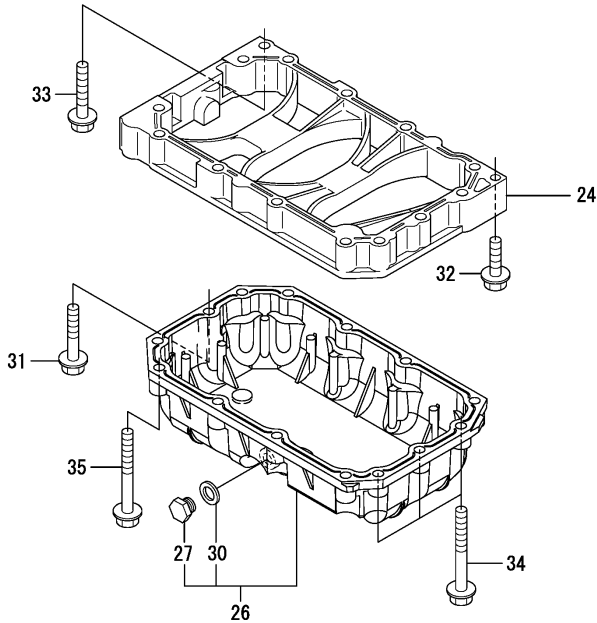


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129100-01580	PIN, PARALLEL 8X16	2	2						
2	1	128990-01650	HOUSING, FLYWHEEL	1	1						
3	1	26206-100302	BOLT, M10X 30 PLATED	3	3						
4	1	119620-01750	CAP, WHEEL COVER	1	1						
5	1	124085-02220	SEAL, METAL HOUSING	1	1						
6	1	26206-100252	BOLT, M10X 25 PLATED	8	8						
7	1	23887-180002	PLUG, 18	1	1						

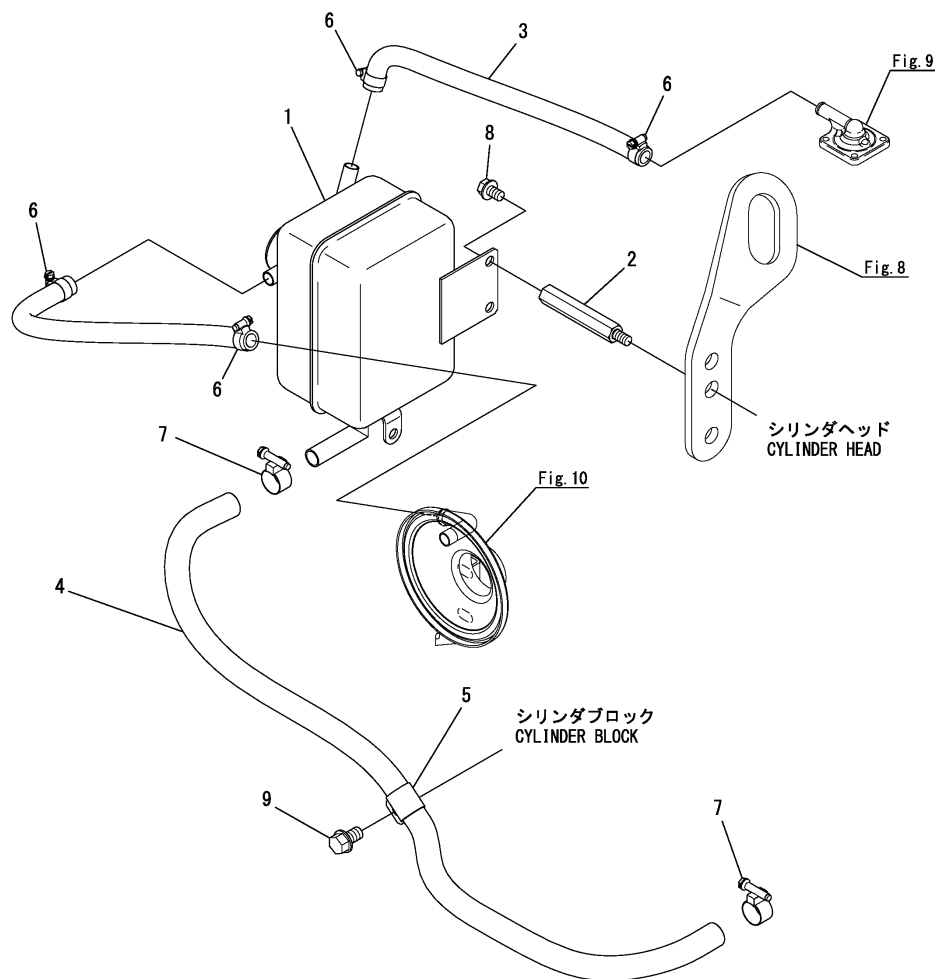
3YM27A



3YM30R

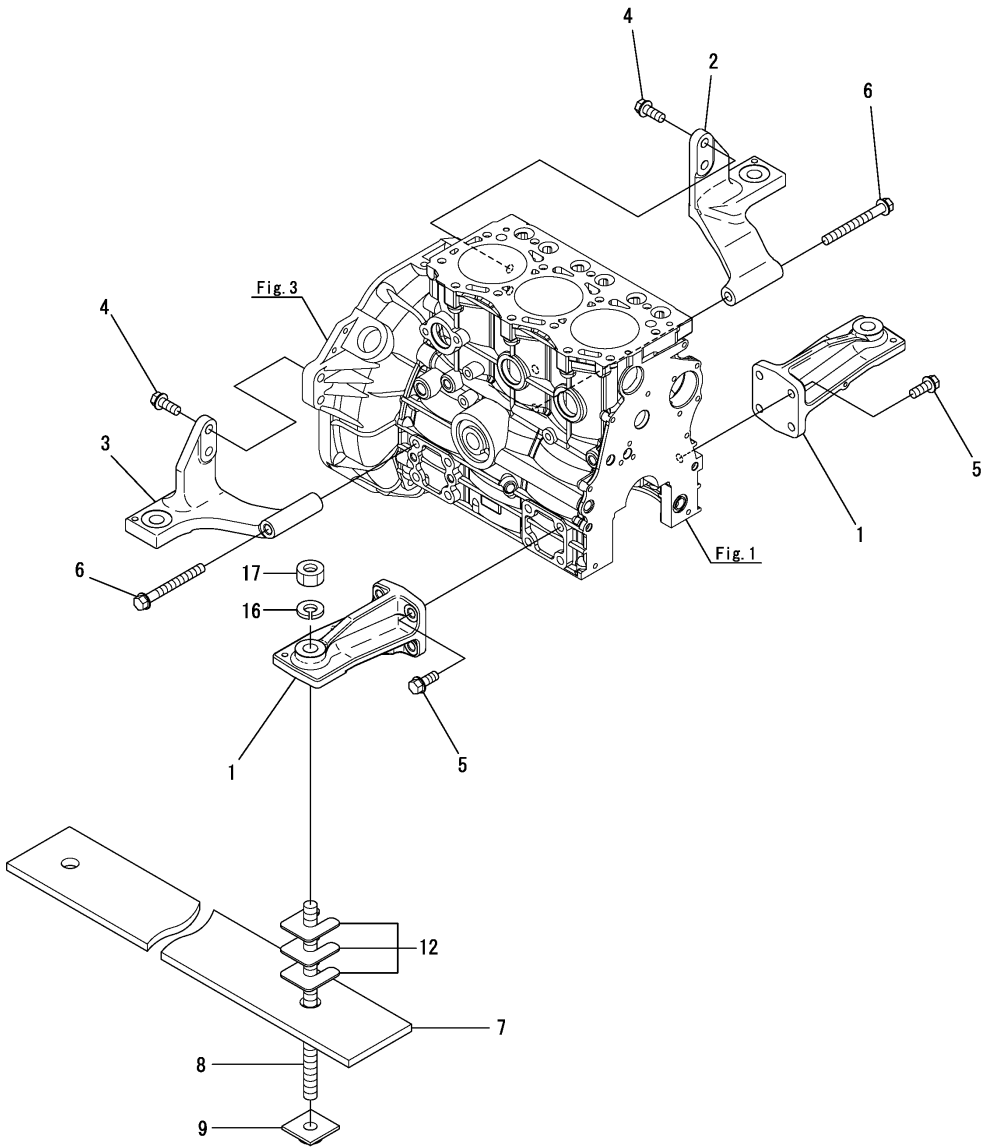


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128991-01710	SPACER ASSY,OIL PAN	1							
4	2	129198-01791	ELBOW, PT3/8	1							
5	2	129198-34500	VALVE ASSY, REVERSE	2							
6	2	128991-35080	STRAINER, LO	1							
7	2	22117-060000	WASHER, 6	4							
8	2	22137-060000	WASHER, 6	4							
9	2	26106-060122	BOLT, M6X 12 PLATED	6							
10	1	119718-01740	PIPE, KNOCK	1							
11	1	128990-01750	OIL PAN ASSY	1							
14	2	121450-42450	PLUG, M16	1							
15	2	22190-160002	WASHER, SEAL 16	1							
16	1	194450-11190	PLUG, SCREW 15.0	1							
17	1	119609-32040	O-RING, P16	1							
18	1	124976-34850	PLUG	1							
19	1	26106-080302	BOLT, M8X 30 PLATED	1							
20	1	26106-080452	BOLT, M8X 45 PLATED	1							
21	1	26106-080702	BOLT, M8X 70 PLATED	1							
22	1	26106-081002	BOLT, M8X100 PLATED	10							
23	1	26106-081002	BOLT, M8X100 PLATED	3							
24	1	119717-01720	SPACER, OIL PAN		1						
26	1	128990-01750	OIL PAN ASSY		1						
27	2	121450-42450	PLUG, M16		1						
30	2	22190-160002	WASHER, SEAL 16		1						
31	1	26106-080452	BOLT, M8X 45 PLATED		1						
32	1	26106-080302	BOLT, M8X 30 PLATED		1						
33	1	26106-080452	BOLT, M8X 45 PLATED		1						
34	1	26106-080702	BOLT, M8X 70 PLATED		3						
35	1	26106-080702	BOLT, M8X 70 PLATED		10						



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128991-03150	SEPARATOR, MIST	1							
2	1	128991-03160	BOLT, SPACER M8	2							
3	1	128991-03180	PIPE, BREATHER B	2							
4	1	128991-03190	PIPE, BREATHER C	1							
5	1	128991-26660	CLAMP, P/S HOSE	1							
6	1	23000-016000	CLAMP, 16	4							
7	1	23000-022000	CLAMP, 22	2							
8	1	26106-080122	BOLT, M8X 12 PLATED	2							
9	1	26106-100162	BOLT, M10X 16 PLATED	1							

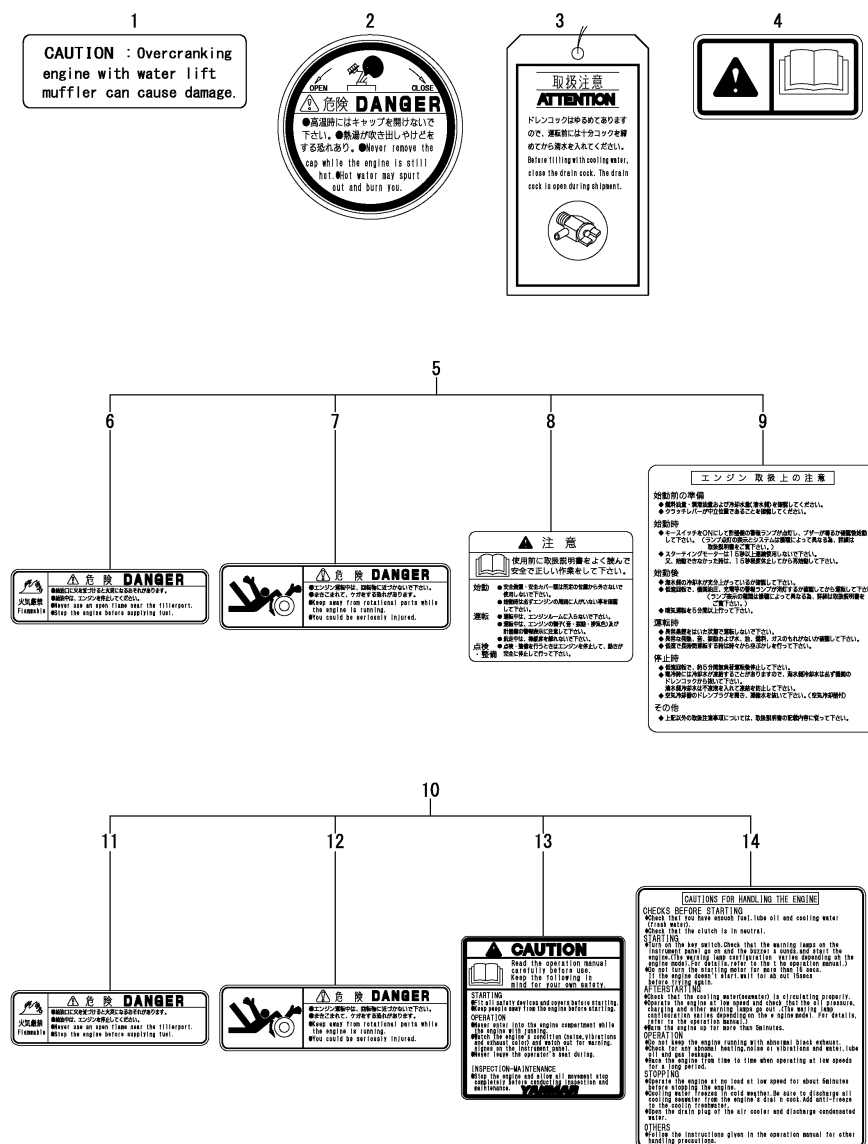
Fig.6. MOUNTING FOOT



(A)=3YM27A
(B)=3YM30R
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128991-08100	FOOT, ENGINE FRONT	2	2						
2	1	128991-08130	FOOT, ENGINE REAR L	1	1						
3	1	128991-08140	FOOT, ENGINE REAR R	1	1						
4	1	26106-100252	BOLT, M10X 25 PLATED	4	4						
5	1	26106-100252	BOLT, M10X 25 PLATED	8	8						
6	1	26106-100902	BOLT, M10X 90 PLATED	2	2						
7	1	129198-08130	PLATE, FOUNDATION	2	2						
8	1	124220-92700	BOLT, FOUNDATION 14	4	4						
9	1	124220-92920	NUT ASSY	4	4						
12	1	123672-92950	SHIM, ADJUST	1	1						
16	1	22212-140000	SPRING WASHER 14	4	4						
17	1	26716-140002	NUT, M14	4	4						

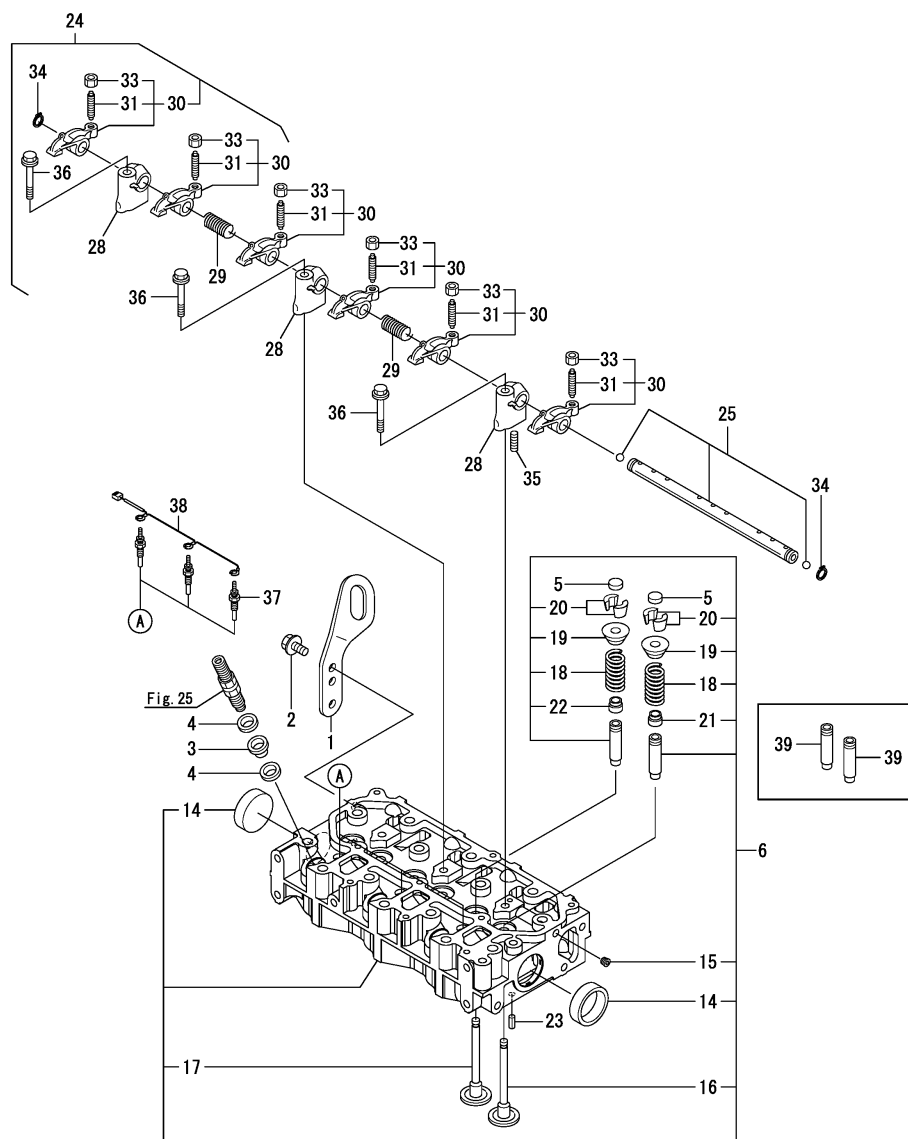


Remarks
(1) Loose parts.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128171-07150	LABEL, CAUTION	1	1						
2	1	128991-07270	LABEL, PRESSURE CAP	1	1						
3	1	123682-07852	LABEL, CAUTION	1	1						Z
		(A=*2017.09.)	(B=*2017.09.)								
4	1	196630-12980	LABEL, CAUTION	1	1						
5	1	120324-07190	LABEL SET	1	1						1
6	2	128296-07400	LABEL, DANGER	2	2						1
7	2	128296-07420	LABEL, DANGER	1	1						1
8	2	120324-07200	LABEL, CAUTION	1	1						1
9	2	120324-07210	LABEL, OPERATION	1	1						1
10	1	128296-07190	LABEL, LOOSE PARTS	1	1						1
10-1	1	128991-07190	LABEL KIT	1	1						N 1
		(A=E/#9650)	(B=*2014.03.)								
11	2	128296-07400	LABEL, DANGER	2	2						1
12	2	128296-07420	LABEL, DANGER	1	1						1
13	2	128296-07450	LABEL, CAUTION	1	1						1
14	2	128296-07460	LABEL, OPERATION	1	1						1
14-1	2	128991-07460	LABEL, OPERATION	1	1						N 1
		(A=E/#9650)	(B=*2014.03.)								

[illegible]

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



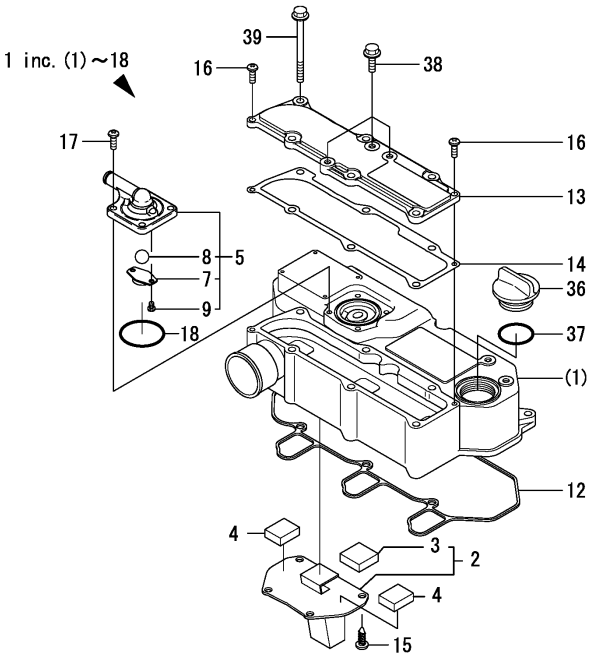
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128990-07910	LIFTER	1	1						
2	1	26106-080142	BOLT, M8X 14 PLATED	2	2						
3	1	129901-11450	PROTECTOR, NOZZLE	3	3						
4	1	119600-11460	GASKET, NOZZLE	6	6						
5	1	105010-11490	CAP, VALVE	6	6						
6	1	119717-11740	HEAD ASSY, CYLINDER	1	1						
14	3	119285-11990	PLUG, 35	2	2						
15	3	23876-005000	PLUG, R005	1	1						
16	2	119717-11101	VALVE, INTAKE	3	3						
17	2	119717-11110	VALVE, EXHAUST	3	3						
18	2	119717-11131	SPRING, VALVE	6	6						
19	2	129508-11180	RETAINER, SPRING	6	6						
20	2	119717-11190	COTTER, VALVE	12	12						
21	2	119717-11340	SEAL, VALVE STEM	3	3						
22	2	119717-11350	SEAL, VALVE STEM	3	3						
23	1	22351-060012	PIN, SPRING 6.0X12	2	2						
24	1	119717-11200	SUPPORT ASSY, ROCKER	1	1						
25	2	119717-11240	SHAFT ASSY, ARM	1	1						
28	2	119717-11260	SUPPORT, ROCKER ARM	3	3						
29	2	119620-11280	SPRING, SHAFT	2	2						
30	2	119717-11650	ARM ASSY, ROCKER INT	6	6						
31	3	129150-11230	SCREW, VALVE ADJUST	6	6						
33	3	129150-11750	NUT, M8XP1.0	6	6						
34	2	22242-000120	RING, 12	2	2						
35	2	26979-050162	SCREW, M5X16	1	1						
36	1	26106-080402	BOLT, M8X 40 PLATED	3	3						
37	1	119717-77801	PLUG, GLOW	3	3						
38	1	128990-77820	CONNECTOR, GLOW PLUG	1	1						
39	1	119717-11800	GUIDE, VALVE	6	6						

Remarks
(1) Spare parts.

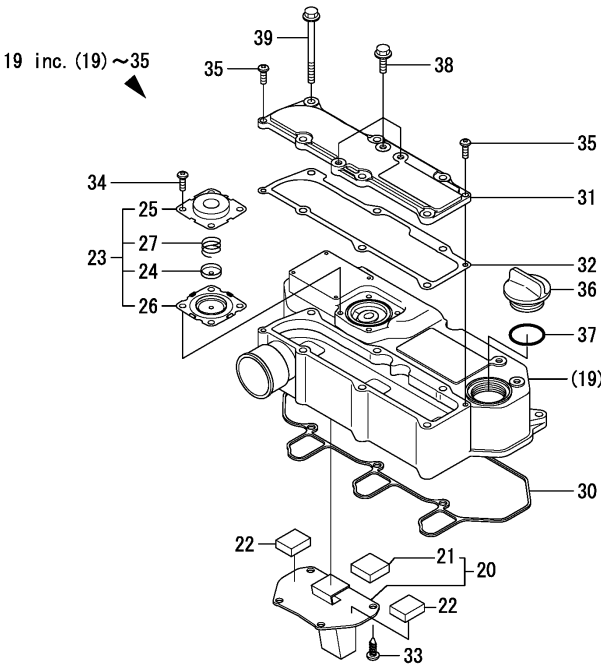
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3YM27A

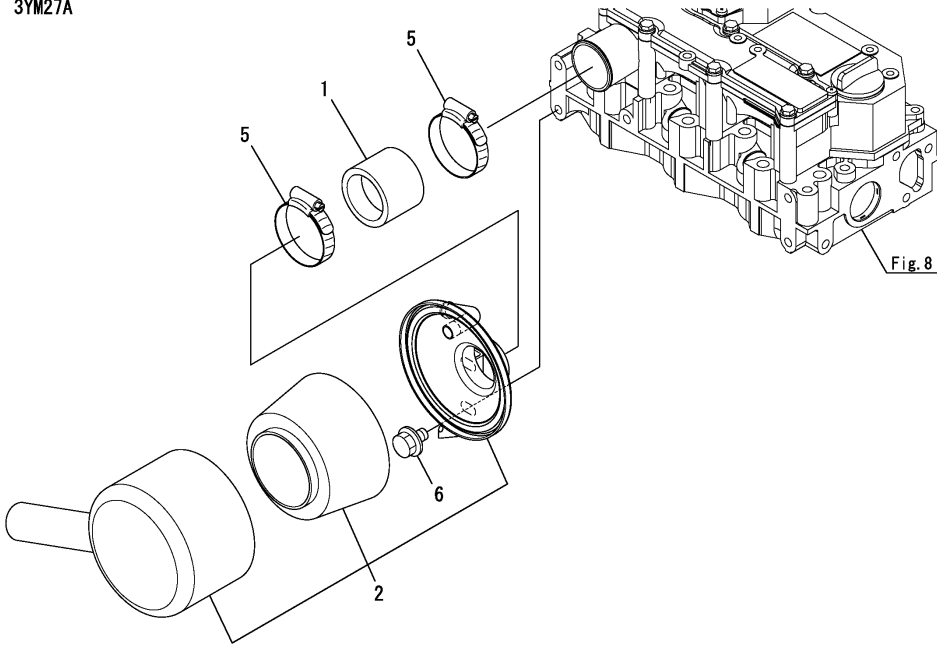


3YM30R

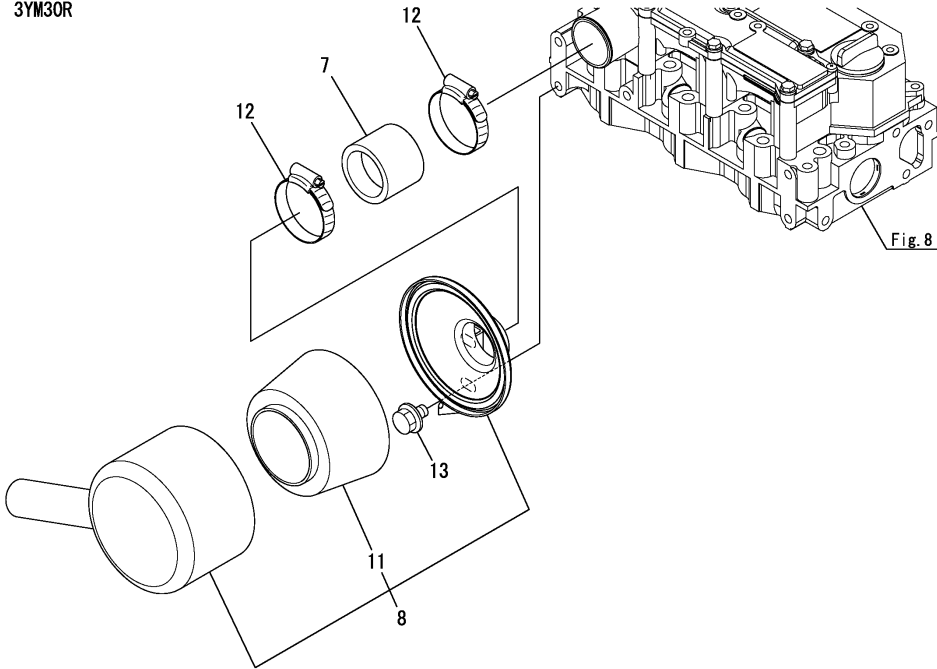


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128991-11380	BONNET ASSY, HEAD	1							
2	2	119717-03031	PLATE, BAFFLE	1							
3	3	119717-03070	BAFFLE, BREATHER	1							
4	2	119717-03070	BAFFLE, BREATHER	2							
5	2	128991-03100	COVER ASSY, BREATHER	1							
7	3	128991-03120	PLATE, BREATHER	1							
8	3	24190-160001	BALL, STEEL 1/2	1							
9	3	26557-040062	SCREW, M4X 6	2							
12	2	119718-11310	GASKET, BONNET	1							
13	2	119717-11320	COVER, BONNET	1							
14	2	119717-11331	GASKET, BONNET COVER	1							
15	2	22857-500100	SCREW, 5X10	4							
16	2	22857-500160	SCREW, 5X16	2							
17	2	22857-500160	SCREW, 5X16	4							
18	2	24341-000400	O-RING, 1AS40.0	1							
19	1	119717-11381	BONNET ASSY, HEAD		1						
20	2	119717-03031	PLATE, BAFFLE		1						
21	3	119717-03070	BAFFLE, BREATHER		1						
22	2	119717-03070	BAFFLE, BREATHER		2						
23	2	119802-03100	DIAPHRAGM ASSY		1						
24	3	119802-03110	PLATE, DIAPHRAGM		1						
25	3	119802-03121	COVER, DIAPHRAGM		1						
26	3	119802-03131	DIAPHRAGM, BREATHER		1						
27	3	119802-03141	SPRING, DIAPHRAGM		1						
30	2	119718-11310	GASKET, BONNET		1						
31	2	119717-11320	COVER, BONNET		1						
32	2	119717-11331	GASKET, BONNET COVER		1						
33	2	22857-500100	SCREW, 5X10		4						
34	2	22857-500100	SCREW, 5X10		4						
35	2	22857-500160	SCREW, 5X16		2						
36	1	124160-01751	CAP, FILLER	1	1						
37	1	24311-000320	O-RING, 1AP32.0	1	1						
38	1	26106-060202	BOLT, M6X 20 PLATED	3	3						
39	1	26106-060752	BOLT, M6X 75 PLATED	6	6						

3YM27A



3YM30R

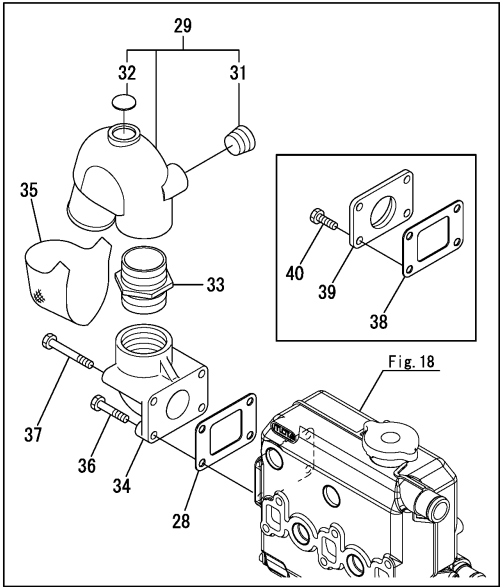
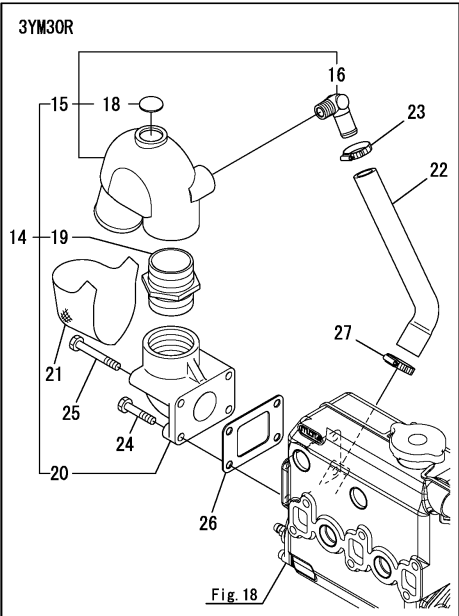
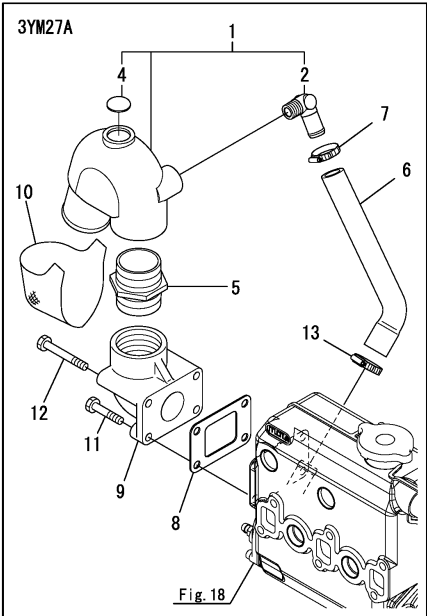


(A)=3YM27A
(B)=3YM30R
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128991-12210	JOINT,INLET SILENCER	1							
2	1	128991-12500	SILENCER ASSY,INTAKE	1							
5	1	23000-060000	CLAMP, 60	2							
6	1	26106-080122	BOLT, M8X 12 PLATED	2							
7	1	128991-12210	JOINT,INLET SILENCER		1						
8	1	128990-12500	SILENCER ASSY,INTAKE		1						
11	2	128270-12540	ELEMENT, AIR CLEANER		1						
12	1	23000-060000	CLAMP, 60		2						
13	1	26106-080122	BOLT, M8X 12 PLATED		2						

Fig.11. EXHAUST BEND & MIXING ELBOW



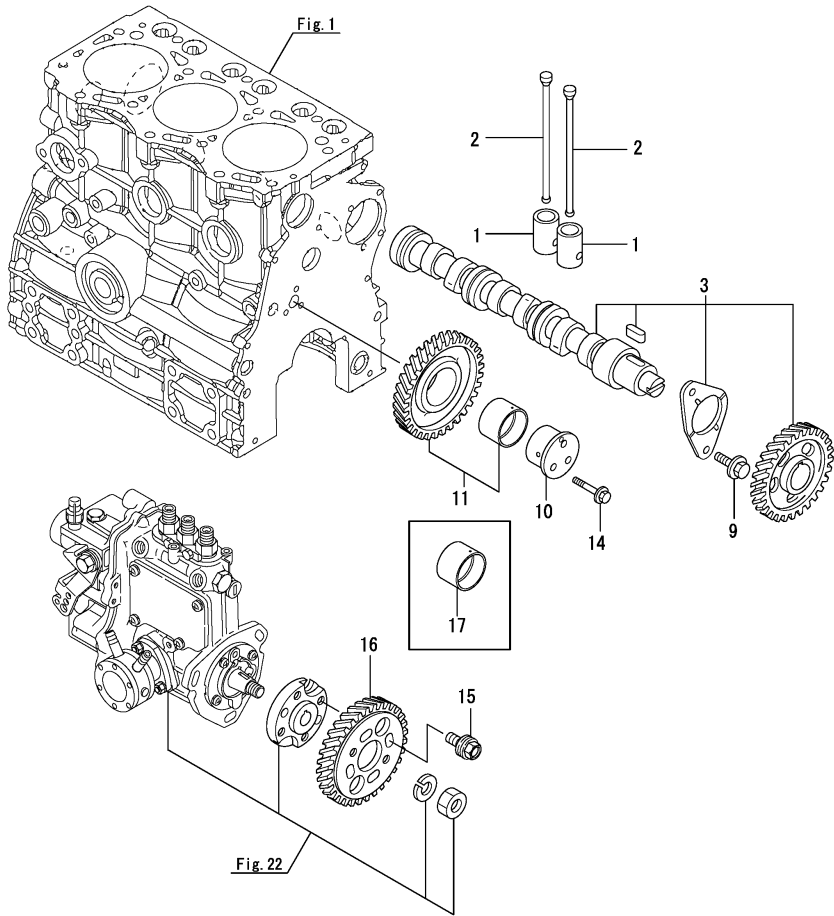
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(B)=3YM30R
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128990-13520	ELBOW ASSY, MIXING	1							
2	2	124070-13300	ELBOW, PT3/8	1							
4	2	27233-250000	PLUG, 25	1							
5	1	104214-13580	JOINT, MIXING ELBOW	1							
6	1	128991-49090	PIPE,CSW B	1							
7	1	23000-025000	CLAMP, 25	1							
8	1	128370-13201	GASKET, ELBOW A	1							
9	1	128992-13610	BEND, EXHAUST	1							
10	1	128991-13660	INSULATOR, EXHAUST	1							
11	1	26203-080352	BOLT, M8X 35 PLATED	2							
12	1	26203-080852	BOLT, 8 X 85	2							
13	1	23000-028000	CLAMP, 28	1							
14	1	128992-13510	ELBOW ASSY, MIXING		1						
15	2	128990-13520	ELBOW ASSY, MIXING		1						
16	3	124070-13300	ELBOW, PT3/8		1						
18	3	27233-250000	PLUG, 25		1						
19	2	104214-13580	JOINT, MIXING ELBOW		1						
20	2	128992-13610	BEND, EXHAUST		1						
21	1	128991-13660	INSULATOR, EXHAUST		1						
22	1	128991-49090	PIPE,CSW B		1						
23	1	23000-025000	CLAMP, 25		1						
24	1	26203-080352	BOLT, M8X 35 PLATED		2						
25	1	26203-080852	BOLT, 8 X 85		2						
26	1	128370-13201	GASKET, ELBOW A		1						
27	1	23000-028000	CLAMP, 28		1						
28	1	128370-13201	GASKET, ELBOW A	1							1
29	1	128991-13510	ELBOW ASSY,U-MIXING	1							1
31	2	23878-030000	PLUG, R03	1							1
32	2	27233-250000	PLUG, 25	1							1
33	1	104214-13580	JOINT, MIXING ELBOW	1							1
34	1	128992-13610	BEND, EXHAUST	1							1
35	1	128991-13660	INSULATOR, EXHAUST	1							1
36	1	26203-080352	BOLT, M8X 35 PLATED	2							1
37	1	26203-080852	BOLT, 8 X 85	2							1
38	1	128370-13201	GASKET, ELBOW A	1							1
39	1	128991-13610	FLANGE,EXHAUST	1							1
40	1	26203-080252	BOLT, M8X 25 PLATED	4							1

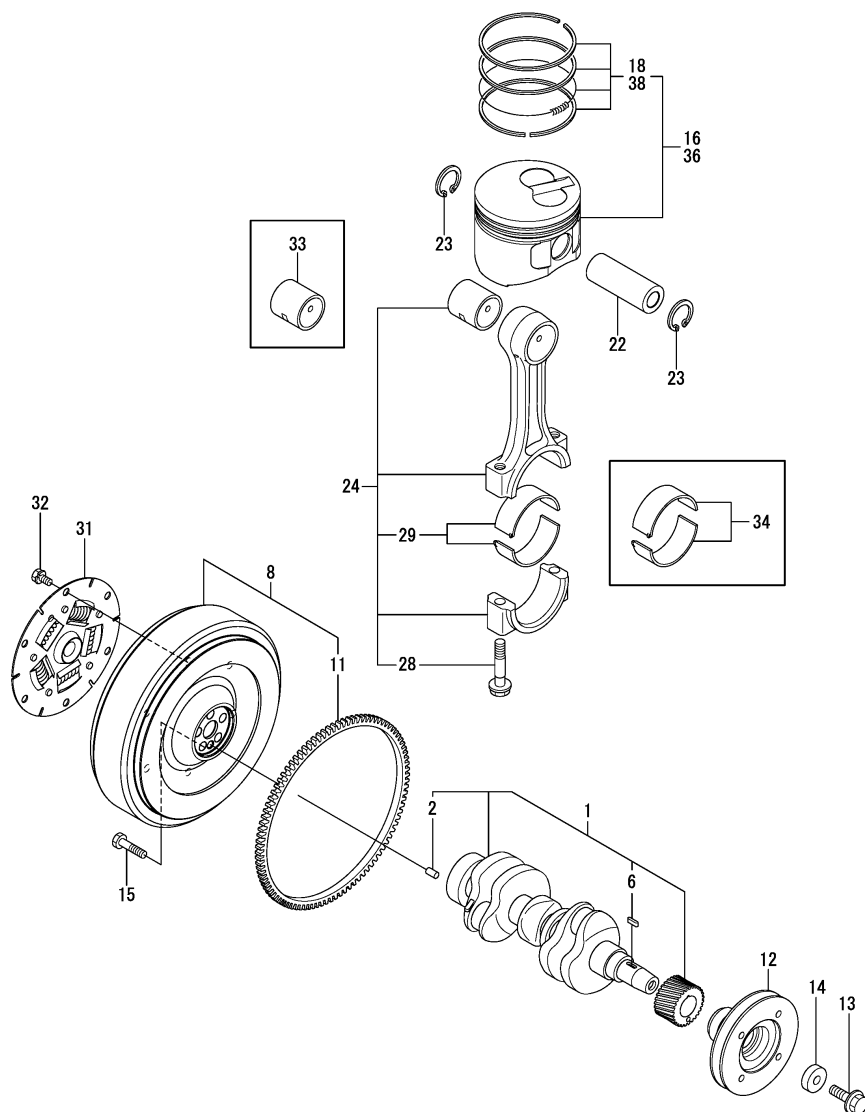
Remarks
(1)Keel cooler specification(Optional parts).

Fig.12. CAMSHAFT & DRIVING GEAR



							OCF10-M64501 Fig.12					
							(A)=3YM27A		(D)=			
							(B)=3YM30R		(E)=			
							(C)=		(F)=			
No.	Lev.	Parts No.	Description	Q'ty						I	R	
				(A)	(B)	(C)	(D)	(E)	(F)			
1	1	119620-14200	TAPPET	6	6							
2	1	119717-14400	ROD, PUSH	6	6							
3	1	119717-14581	CAMSHAFT ASSY	1	1							
9	1	26106-060122	BOLT, M6X 12 PLATED	2	2							
10	1	119717-25050	SHAFT, IDLE GEAR	1	1							
11	1	119717-25101	GEAR ASSY, IDLE	1	1							
14	1	26106-060352	BOLT, M6X 35 PLATED	3	3							
15	1	129150-25301	BOLT, INJECTION PUMP	4	4							
16	1	119717-25930	GEAR, PUMP	1	1							
17	1	119717-25911	BUSH, IDLE GEAR	1	1						1	

Remarks
(1)Spare parts.

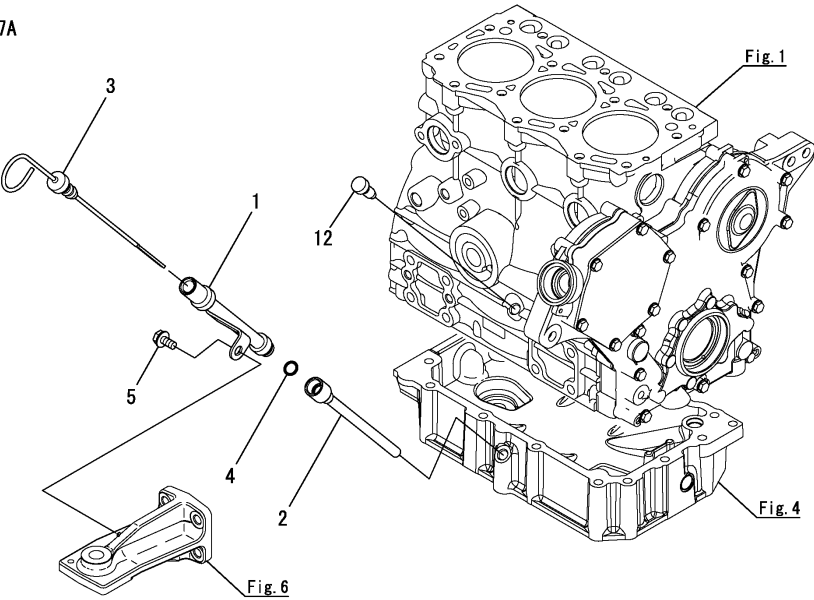


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119717-21700	CRANKSHAFT ASSY	1	1						
2	2	129100-01580	PIN, PARALLEL 8X16	1	1						
6	2	22512-040120	KEY, 4X 12	1	1						
8	1	128990-21590	FLYWHEEL ASSY	1	1						
11	2	124950-21600	GEAR, RING Z=97	1	1						
12	1	128990-21650	V-PULLEY, CRANKSHAFT	1	1						
13	1	119621-21681	BOLT, FLANGE 12X1.25	1	1						
14	1	119620-21941	WASHER, 12	1	1						
15	1	121111-21501	BOLT, FLYWHEEL	5	5						
16	1	119718-22080	PISTON ASSY	3	3						
18	2	119717-22500	RING SET, PISTON	3	3						
22	1	119717-22300	PIN, PISTON	3	3						
23	1	22252-000220	RING, 22	6	6						
24	1	119717-23000	ROD ASSY, CONNECTING	3	3						
24-1	1	119717-23001	ROD ASSY, CONNECTING	3	3						N
		(A=#11916)	(B=#2018.11.)								
28	2	119717-23200	BOLT, CONNECTING ROD	6	6						
29	2	119717-23601	METAL ASSY, CRANK PIN	3	3						
31	1	177070-03501	DISK, DAMPER D170	1	1						
32	1	26013-080142	BOLT, M8X 14	6	6						
33	1	119717-23910	METAL, PISTON PIN	3	3						1
34	1	119717-23611	METAL ASSY, PIN .25	3	3						2
36	1	119718-22090	PISTON ASSY, 0.25 OS	3	3						3
38	2	119717-22550	RING SET, PISTON .25	3	3						

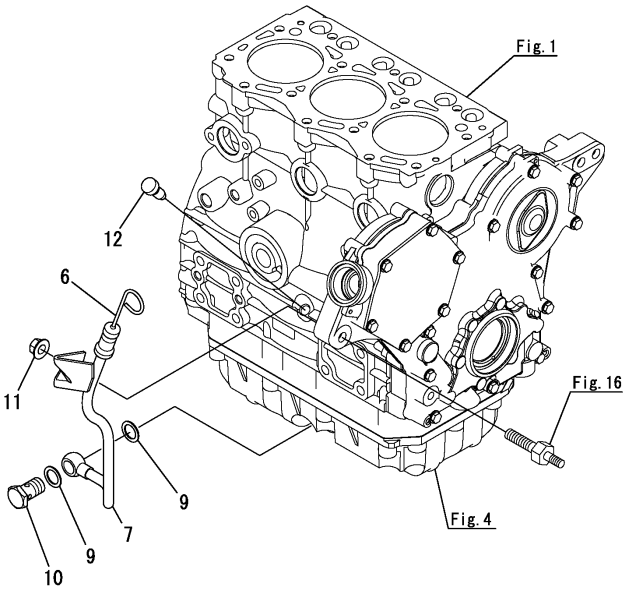
Remarks
(1) Spare parts.
(2) Under-sized (U.S.=0.25) parts.
(3) Over-sized (O.S.=0.25) parts.

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

3YM27A



3YM30R

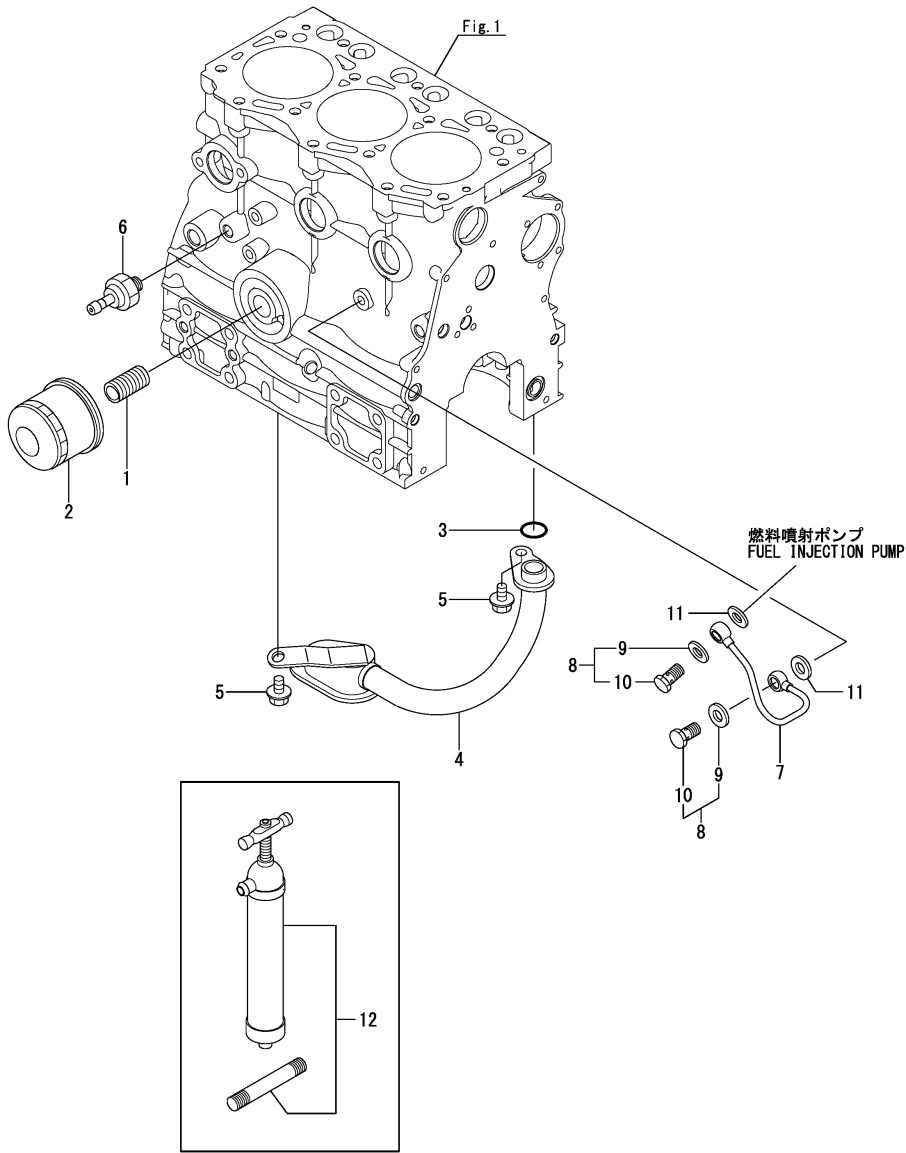


(A)=3YM27A
(B)=3YM30R
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128991-34810	GUIDE, DIPSTICK A	1							
2	1	128991-34820	GUIDE, DIPSTICK B	1							
3	1	128991-34850	DIPSTICK, OIL	1							
4	1	24341-000100	O-RING, 1AS10.0	1							
5	1	26106-060122	BOLT, M6X 12 PLATED	1							
6	1	128990-34850	DIPSTICK, OIL		1						
7	1	128990-34860	GUIDE ASSY, DIPSTICK		1						
9	1	22190-160002	WASHER, SEAL 16		2						
10	1	23857-100000	BOLT, JOINT 10		1						
11	1	26366-100002	NUT, M10		1						
12	1	124976-34850	PLUG	1	1						

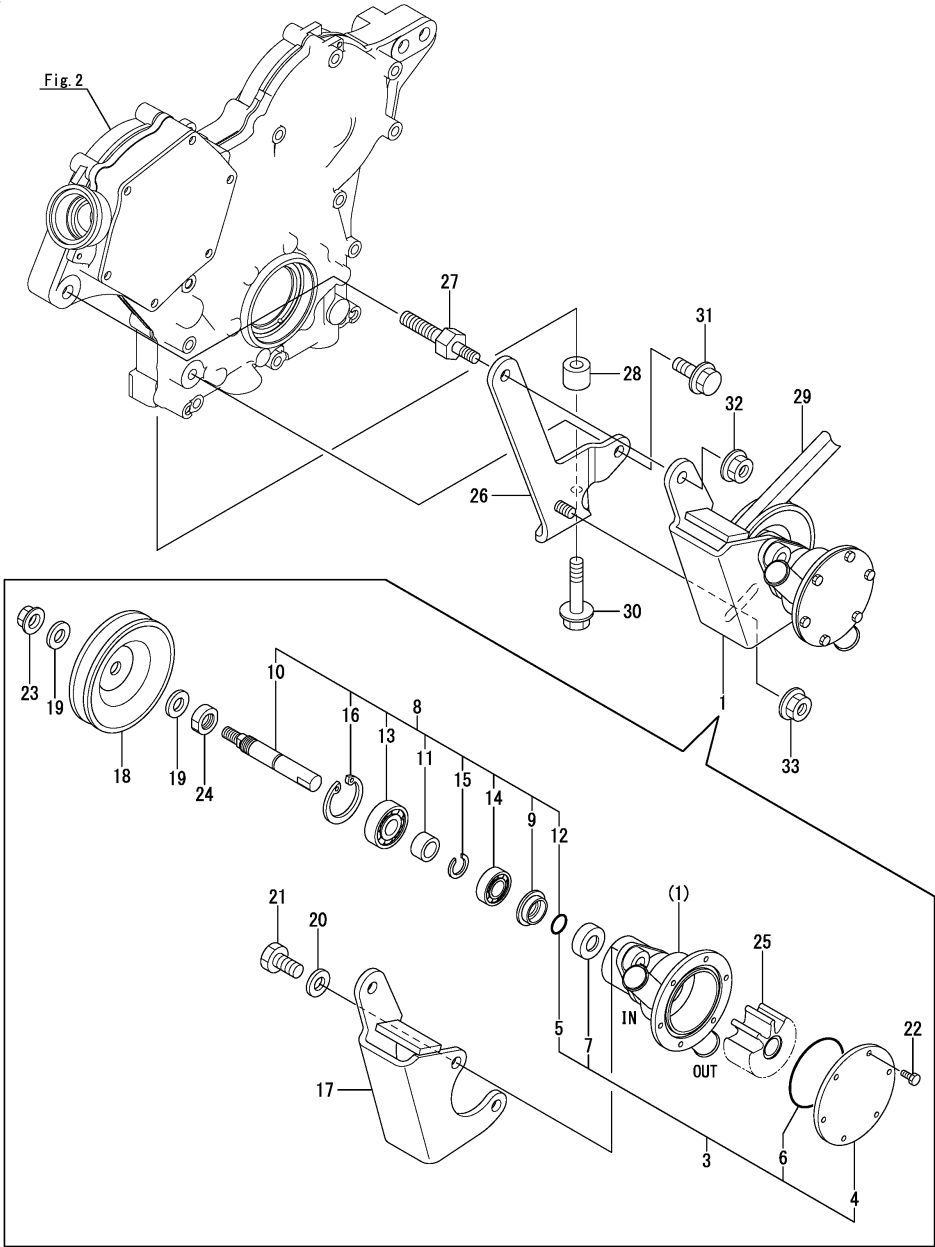
Fig.15. LUB. OIL SYSTEM



							OCF10-M64501 Fig.15					
							(A)=3YM27A (B)=3YM30R (C)=					
							(D)= (E)= (F)=					
							Q'ty					
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R	
1	1	119717-35140	STUD	1	1							
2	1	119305-35160	FILTER ASSY, D68XL65	1	1							
3	1	119717-32060	O-RING, P15.0		1							
4	1	128990-35080	PIPE ASSY, OIL INLET		1							
5	1	26106-060102	BOLT, M6X 10 PLATED		2							
6	1	114250-39450	SWITCH, HYDRAULIC	1	1							
7	1	119717-39210	PIPE, PUMP	1	1							
8	1	129005-59830	BOLT ASSY, JOINT M8	2	2							
9	2	22190-080002	WASHER, SEAL 8	2	2							
10	2	23857-030000	BOLT, JOINT 3	2	2							
11	1	22190-080002	WASHER, SEAL 8	2	2							
12	1	128275-39700	PUMP ASSY, WASTE OIL	1	1							1

Remarks
(1)Optional parts.

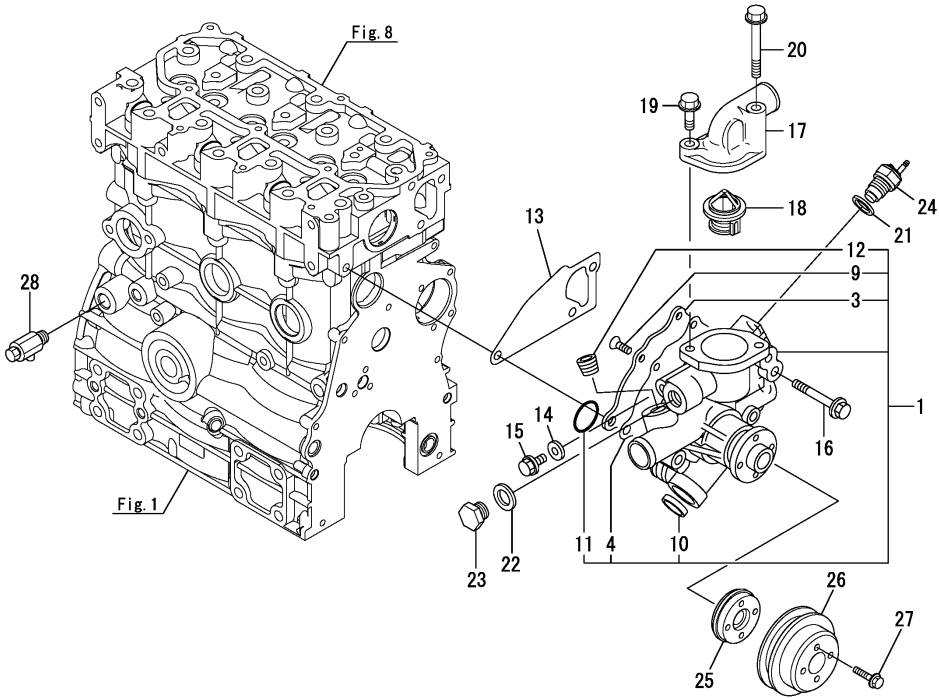
Fig.16. COOLING PUMP(SEA WATER)



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128991-42510	PUMP ASSY, WATER	1	1						
3	2	128990-42550	WEAR KIT	1	1						W
(A)=*2016.10.) (B)=*2016.10.)											
4	3	X0142398	COVER, END	1	1						
4-1	3	128990-42540	COVER, END	1	1						R
(A)=*2016.10.) (B)=*2016.10.)											
5	3	X02173432	O-RING	1	1						
6	3	X02173476	O-RING	1	1						
7	3	X02233010	SEAL, LIP	1	1						
8	2	128990-42560	SHAFT KIT	1	1						W
(A)=*2016.10.) (B)=*2016.10.)											
9	3	X0145050	PLATE	1	1						
10	3	X0146541	SHAFT, WATER PUMP	1	1						
11	3	X0146542	SPACER	1	1						
12	3	X02173432	O-RING	1	1						
13	3	X03431760	BEARING, BALL	1	1						
14	3	X03431748	BEARING, BALL	1	1						
15	3	X00370012	RING, RETAINING	1	1						
16	3	X00371732	RING, RETAINING	1	1						
17	2	128990-42151	BRACKET, PUMP A	1	1						
18	2	124070-42400	V-PULLEY, PUMP	1	1						
19	2	X014678901	WASHER	2	2						
20	2	X00353309	WASHER	2	2						
21	2	X00141916	SCREW	2	2						
22	2	128990-42520	SCREW	6	6						
23	2	X00190050	NUT, LOCK	1	1						
24	2	X00183200	NUT	1	1						
25	2	128991-42200	IMPELLER, PUMP	1	1						
26	1	128991-42160	BRACKET, CSW-P B	1	1						
27	1	128991-42170	BOLT, SPACER CSW-P	1	1						
28	1	128991-42180	COLLAR, BRACKET B	1	1						
29	1	104511-78780	V-BELT, M/19	1	1						
30	1	26106-060302	BOLT, M6X 30 PLATED	1	1						
31	1	26106-080202	BOLT, M8X 20 PLATED	1	1						
32	1	26366-080002	NUT, M8	1	1						
33	1	26366-080002	NUT, M8	1	1						

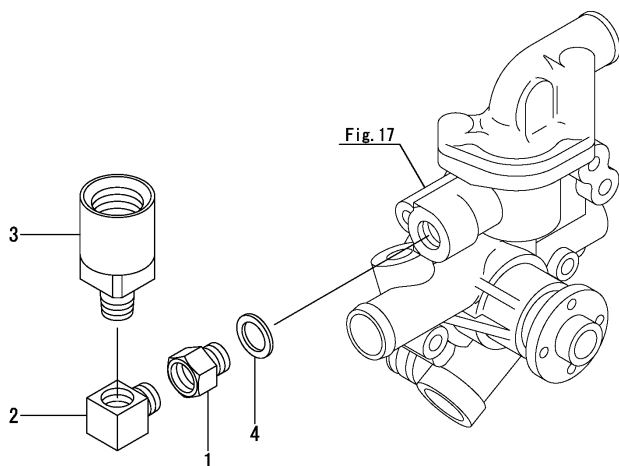
Remarks
* This figure is not applied for keel cooler specification.

Fig.17. COOLING PUMP(FRESH WATER)

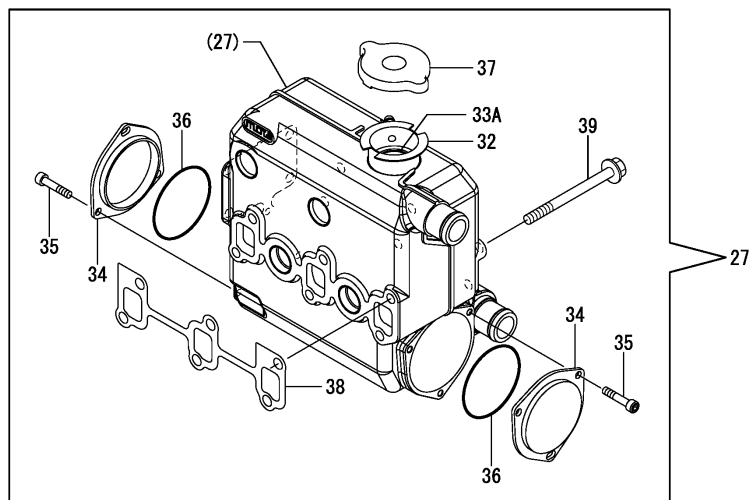
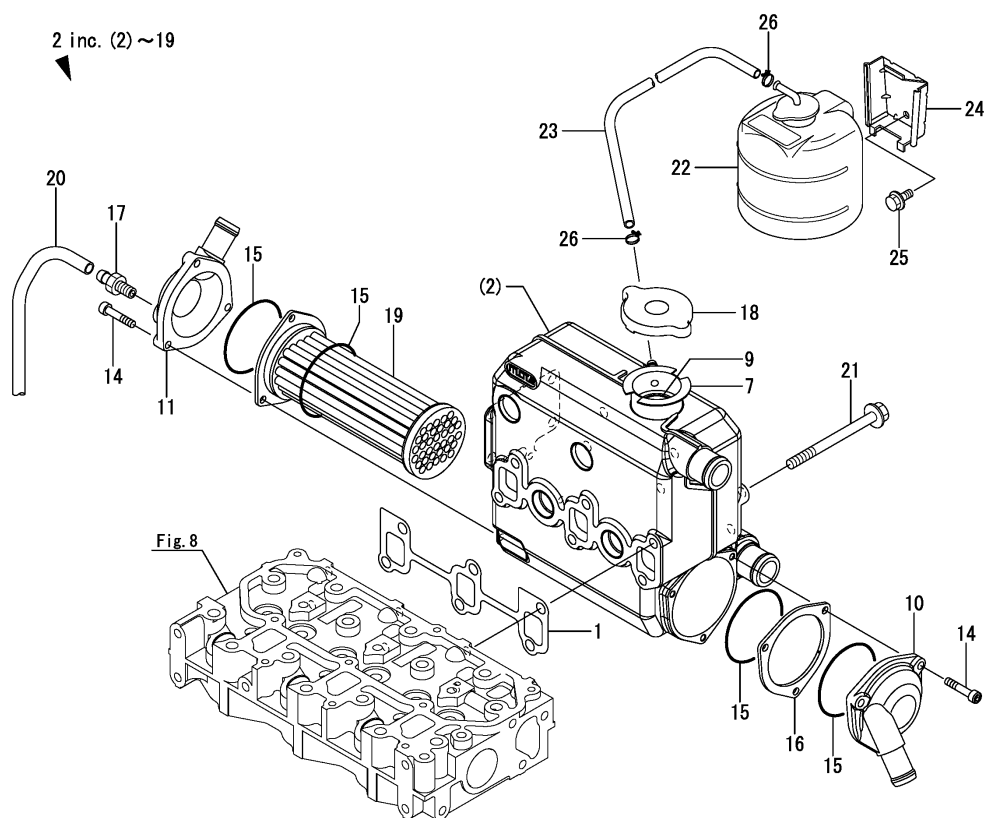


OCF10-M64501 Fig.17											
				(A)=3YM27A					(D)=		
				(B)=3YM30R					(E)=		
				(C)=					(F)=		
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119E10-42000	PUMP ASSY, WATER	1	1						
3	2	119717-42041	COVER, WATER PUMP	1	1						
4	2	119717-42031	GASKET, WATER PUMP	1	1						
9	2	26577-060122	SCREW, M6X12	4	4						
10	2	27241-250000	PLUG, 25	1	1						
11	2	119C10-42320	O-RING, 2028	1	1						
12	2	129916-49740	PLUG, R3/8	1	1						
13	1	119717-42020	GASKET, WATER PUMP	1	1						
14	1	23414-080000	GASKET, 8X1.0	1	1						
15	1	26106-080122	BOLT, M8X 12 PLATED	1	1						
16	1	26106-080502	BOLT, M8X 50 PLATED	3	3						
17	1	124101-49530	COVER, THERMOSTAT	1	1						
18	1	128990-49800	THERMOSTAT, 71C	1	1						
19	1	26106-080252	BOLT, M8X 25 PLATED	1	1						
20	1	26106-080652	BOLT, M8X 65 PLATED	1	1						
21	1	124465-44950	GASKET, 16	1	1						
22	1	124465-44950	GASKET, 16	1	1						
23	1	121450-42450	PLUG, M16	1	1						
24	1	128990-44500	SWITCH, TEMPERATURE	1	1						
25	1	128990-42260	SPACER, PUMP	1	1						
26	1	119740-42350	V-PULLEY, PUMP D=90	1	1						
27	1	26106-060252	BOLT, M6X 25 PLATED	4	4						
28	1	119620-49290	COCK ASSY, 1/4	1	1						

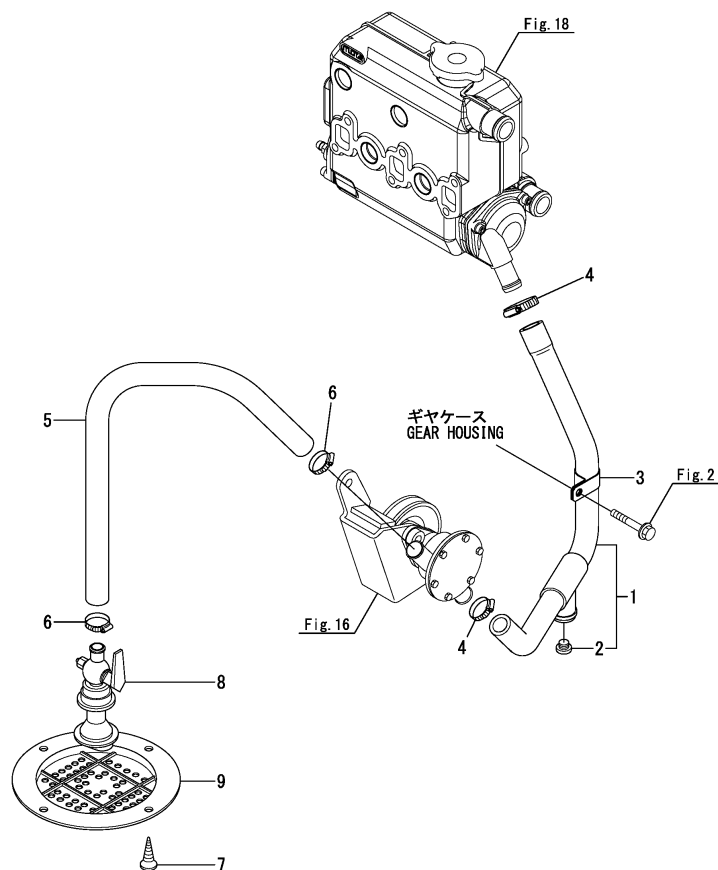
Fig.38. (17A)AIR VENT KIT(KEEL COOLER SPEC.)(OPTIONAL)



No.	Lev.	Parts No.	Description	Q'ty					
				(A)	(B)	(C)	(D)	(E)	(F)
1	1	128991-42450	PLUG, M16	1					
2	1	128991-42670	JOINT, FILLER	1					
3	1	129198-44420	FILLER ASSY, WATER	1					
4	1	124465-44950	GASKET, 16	1					



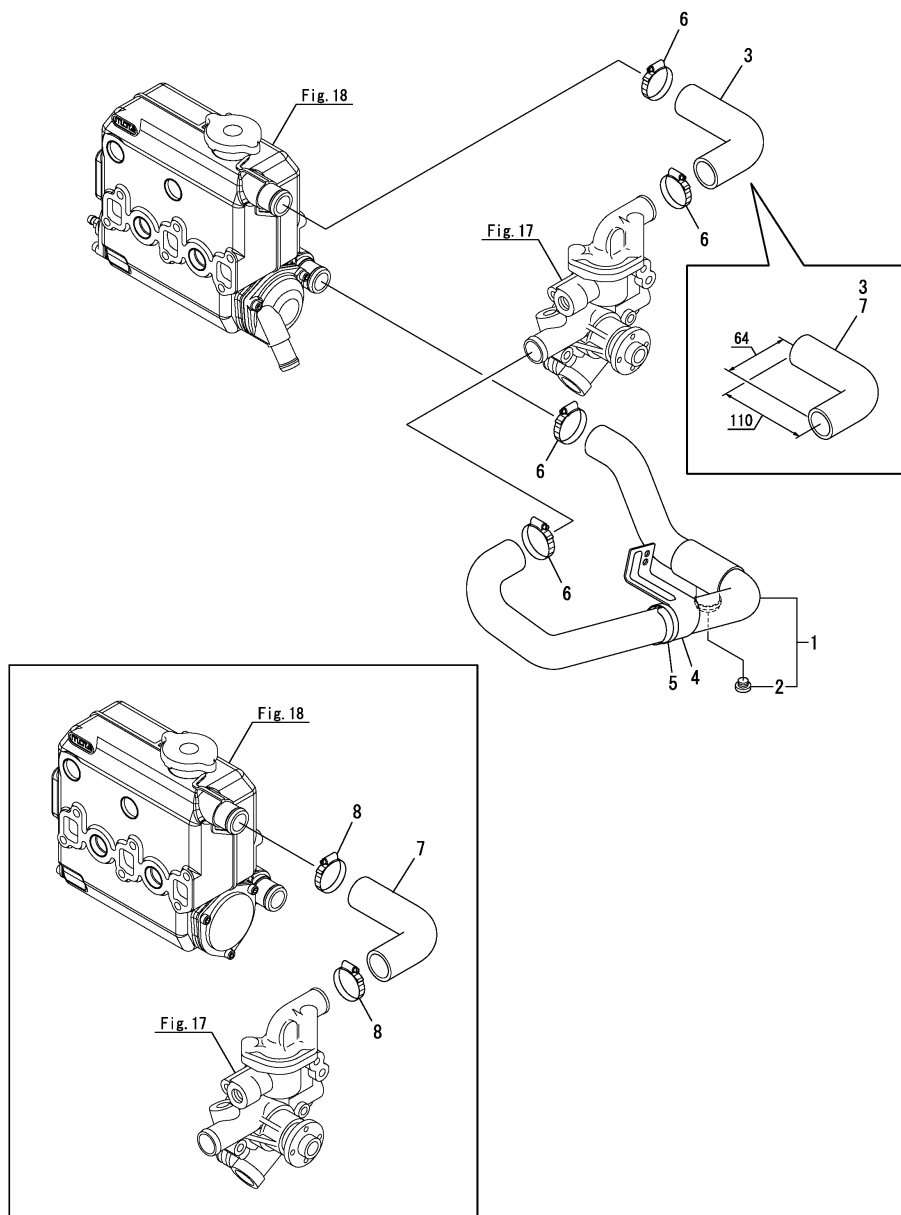
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119717-13110	GASKET, MANIFOLD	1	1						
2	1	128990-44901	COOLER ASSY, WATER	1	1						
7	3	129673-44110	NECK, FILLER	1	1						
9	3	129673-44150	TUBE, D28.5X1.5 LG6	1	1						
10	2	128990-44071	BONNET, INLET	1	1						
11	2	128990-44081	BONNET ASSY, OUT	1	1						
14	2	128990-44090	SCREW, M6X30	6	6						
15	2	128990-44100	O-RING, D65.6X3.53	4	4						
16	2	128990-44110	SPACER	1	1						
17	2	128990-44120	PLUG, DRAIN	1	1						
18	2	129673-44131	CAP, FILLER	1	1						
19	2	128990-44401	ELEMENT, FRESH WATER	1	1						
20	1	23061-070300	PIPE, 7X 300	1	1						
21	1	26106-081152	BOLT, M8X115 PLATED	6	6						
22	1	120445-44530	TANK, SUB	1	1						
23	1	145640-44570	PIPE, OVERFLOW	1	1						
24	1	120445-44540	BRACKET, SUB TANK	1	1						
25	1	26106-080122	BOLT, M8X 12 PLATED	2	2						
26	1	23010-013000	CLAMP 13	2	2						
27	1	128991-44900	TANK ASSY, CFW	1							
32	3	129673-44110	NECK, FILLER	1							
33A	3	129673-44150	TUBE, D28.5X1.5 LG6	1							
34	2	128991-44070	PLATE,END	2							
35	2	128990-44090	SCREW, M6X30	6							
36	2	128990-44100	O-RING, D65.6X3.53	2							
37	2	129673-44131	CAP, FILLER	1							
38	1	119717-13110	GASKET, MANIFOLD	1							
39	1	26106-081152	BOLT, M8X115 PLATED	6							



				(A)=3YM27A (B)=3YM30R (C)=					(D)= (E)= (F)=				
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R		
1	1	128990-49010	PIPE, SEA WATER A	1	1								
1-1	1	128990-49011	PIPE, SEA WATER A	1	1							R	
		(A=E/#11159)	(B=*2016.01.)										
2	2	128990-49110	PLUG ASSY, G1/8	1	1								
3	1	121575-49310	RETAINER, PIPE	1	1								
4	1	23000-028000	CLAMP, 28	4	4								
5	1	124223-49050	PIPE, SEA WATER A	1	1							1	
6	1	23000-025000	CLAMP, 25	2	2							1	
7	1	22724-800380	SCREW, 8.0X38	4	4							1	
8	1	43662-015021	COCK, KINGSTON 15A	1	1							1	
9	1	43666-020951	COVER, STRAINER	1	1							1	

(1)Optional parts.

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128990-49050	PIPE, FRESH WATER A	1	1						
1-1	1	128990-49051	HOSE ASSY, CFW	1	1						N
	(A=*2018.06.)	(B=*2018.06.)									
2	2	128990-49110	PLUG ASSY, G1/8	1	1						
3	1	128990-49070	PIPE, FRESH WATER B	1	1						
4	1	128990-49150	RETAINER, PIPE	1	1						
5	1	194250-51660	BAND, NYLON 250	1	1						
6	1	119172-48350	CLIP, HOSE 35	4	4						
7	1	128990-49070	PIPE, FRESH WATER B	1							1
8	1	119172-48350	CLIP, HOSE 35	2							1

(1)Keel cooler specification(Optional parts).

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.21. BILGE PUMP(OPTIONAL)

(A)=3YM27A
(B)=3YM30R
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	977780-01211	PUMP ASSY, BILGE	1	1						
2	2	X0318101004	MOTOR ASSY, BILGE	1	1						
3	2	X158606410X	SWITH	1	1						
4	3	X8636015001	FUSE, 15A 12V	1	1						
5	2	X179100022X	STRAINER	1	1						
6	2	X179100100X	PIPE ASSY	1	1						
7	2	X0044021509	HOSE, A	1	1						
8	2	X199906101X	SCREW SET	1	1						
9	2	977780-03000	IMPELLER KIT	1	1						

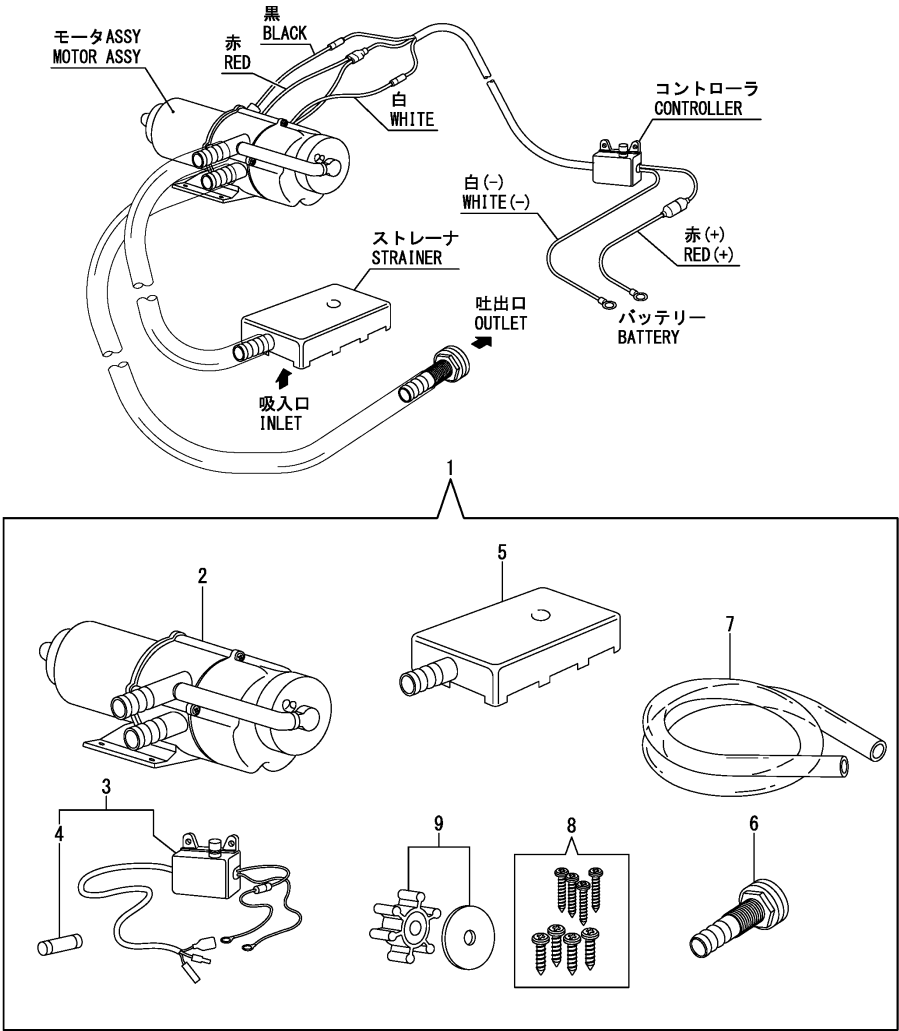
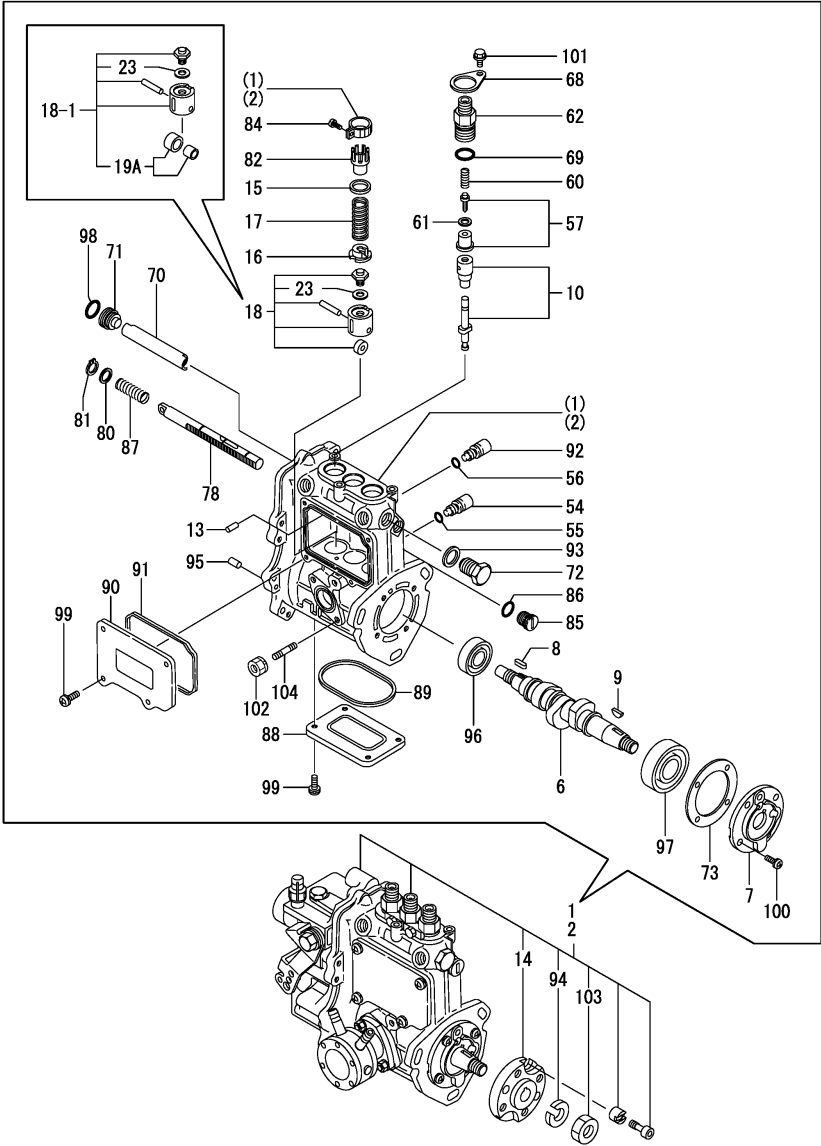


Fig.22. FUEL INJECTION PUMP

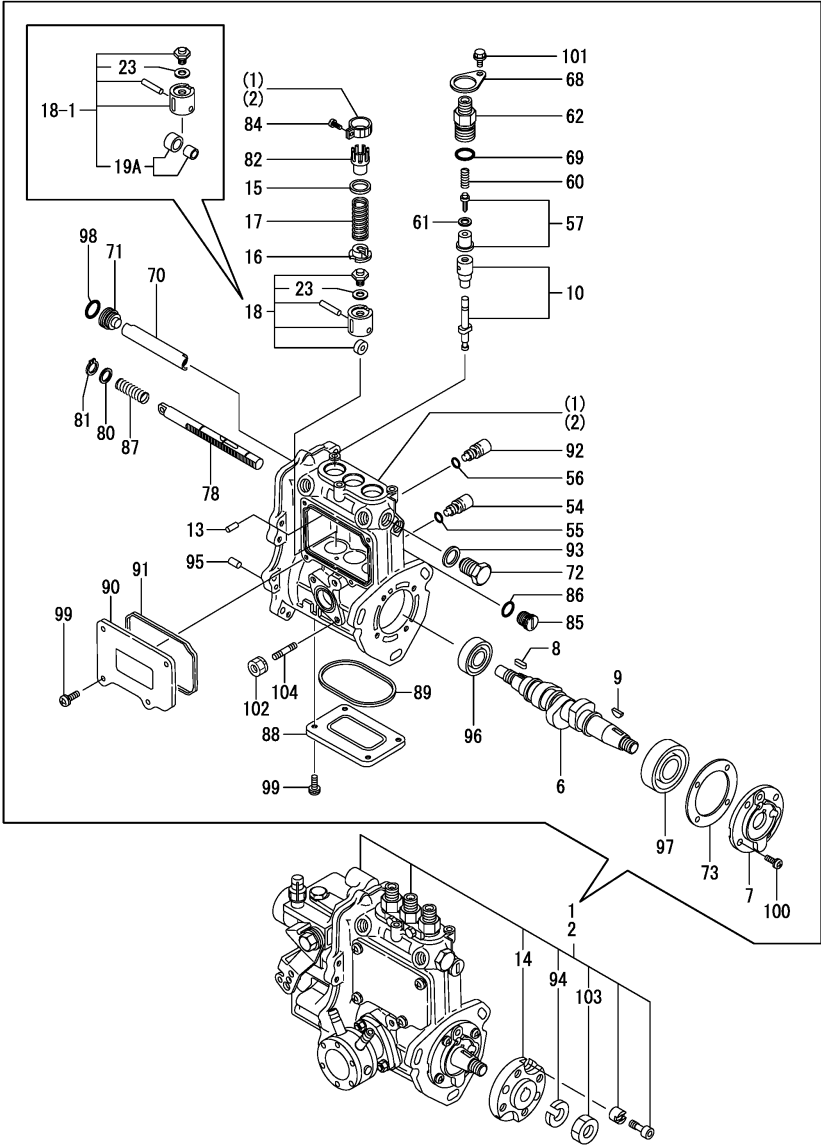
(A)=3YM27A
(B)=3YM30R
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	728991-51350	PUMP ASSY, INJECTION	1							1
2	1	728990-51350	PUMP ASSY, INJECTION		1						1
6	3	119717-51030	CAMSHAFT, PUMP	1	1						
7	3	119717-51060	SUPPORT, CAMSHAFT	1	1						
8	3	119717-51070	KEY, PARALLEL	1	1						
9	3	122710-51090	KEY, FEATHER	1	1						
10	3	119740-51100	PLUNGER ASSY	3	3						
13	3	129155-51140	PIN, BARREL LOCK	3	3						
14	3	119717-51150	FLANGE, CAMSHAFT	1	1						
15	3	158600-51170	RETAINER, SPRING	3	3						
16	3	119717-51570	RETAINER, SPRING	3	3						
17	3	119717-51190	SPRING, PLUNGER	3	3						
18	3	128990-51200	TAPPET ASSY	3	3						
18-1	3	128990-51201	TAPPET ASSY, ROLLER	3	3						N
(A=E/#10914) (B=*2016.04.)											
19A	4	711100-51540	ROLLER ASSY	3	3						W
(A=E/#10914) (B=*2016.04.)											
23	4	129155-51600	SHIM SET, ADJUSTING	3	3						
54	3	158600-51270	STOPPER, TAPPET	3	3						
55	3	129155-51280	O-RING, S6	3	3						
56	3	129155-51280	O-RING, S6	1	1						
57	3	128990-51300	HOLDER ASSY, DELIVERY	3	3						
60	3	128990-51330	SPRING, DELIVERY	3	3						
61	3	124550-51350	GASKET, DELIVERY	3	3						
62	3	158600-51442	VALVE ASSY, DELIVERY	3	3						
68	3	119125-51370	RETAINER, HOLDER	3	3						
69	3	24316-000150	O-RING, 4DP15.0	3	3						
70	3	129155-51400	PROTECTOR	1	1						
71	3	158600-51410	PLUG, DEFLIFTER M12	1	1						
72	3	158600-51420	PLUG, DEFLIFTER M16	1	1						
73	3	129155-51450	SHIM SET, ADJUSTING	1	1						
78	3	119717-51500	RACK, CONTROL	1	1						
80	3	129155-51530	SPACER, SPRING	1	1						
81	3	129155-51540	CIRCLIP, C	1	1						
82	3	129155-51550	PINION, CONTROL	3	3						
84	3	129100-51570	SCREW, PINION M4	3	3						
85	3	158600-51570	PLUG, RACK	1	1						
86	3	129155-51580	O-RING	1	1						
87	3	129155-51591	SPRING, RACK ASSIST	1	1						
88	3	129155-51701	COVER, PUMP BOTTOM	1	1						
89	3	119717-51711	GASKET, PUMP	1	1						
90	3	119717-51750	COVER, BODY SIDE	1	1						
91	3	119717-51761	GASKET, PUMP COVER	1	1						
92	3	158600-51790	STOPPER, RACK	1	1						
93	3	22190-160002	WASHER, SEAL 16	1	1						
94	3	22217-120000	WASHER, SPRING 12	1	1						
95	3	22351-050010	PIN, SPRING 5.0X10	2	2						
96	3	24101-060034	BEARING, BALL 6003	1	1						
97	3	24101-063034	BEARING, BALL 6303	1	1						
98	3	119717-51420	O-RING	1	1						
99	3	26022-050122	SCREW, M5X12	8	8						

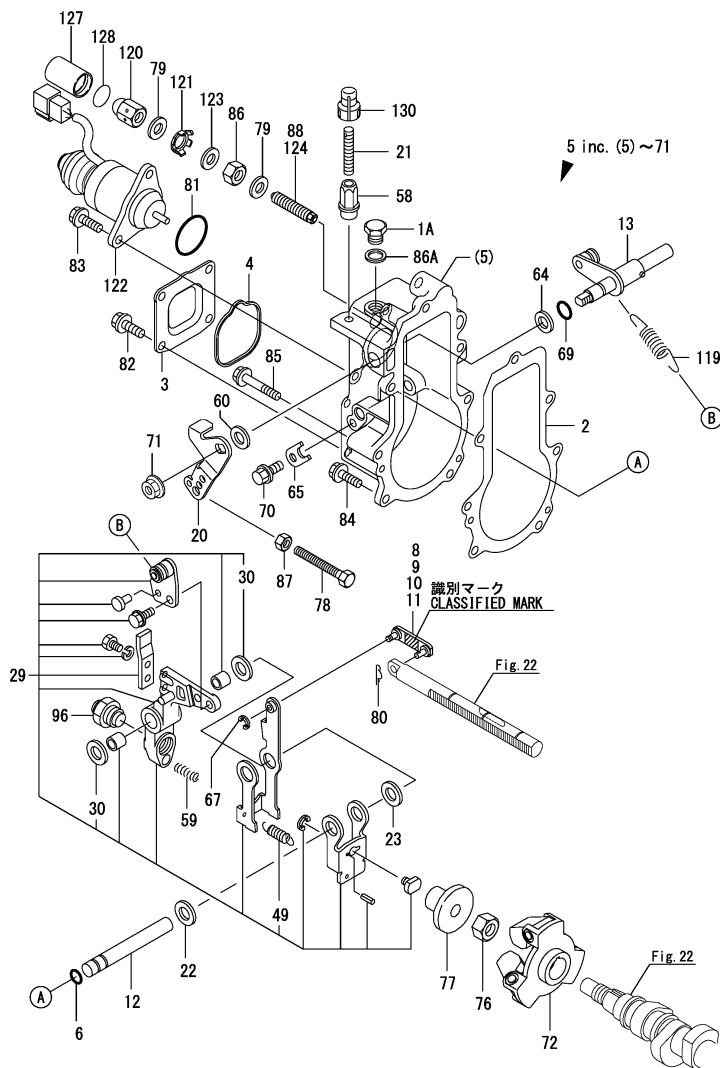
Fig.22. FUEL INJECTION PUMP



				OCF10-M64501 Fig.22							
				(A)=3YM27A (B)=3YM30R (C)=	(D)= (E)= (F)=						
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
100	3	119125-51900	BOLT, M6X14	4	4						
101	3	26106-050102	BOLT, M5X 10 PLATED	3	3						
102	3	119717-51860	NUT, M6	2	2						
103	3	26716-120002	NUT, M12	1	1						
104	3	129155-51020	STUD	2	2						

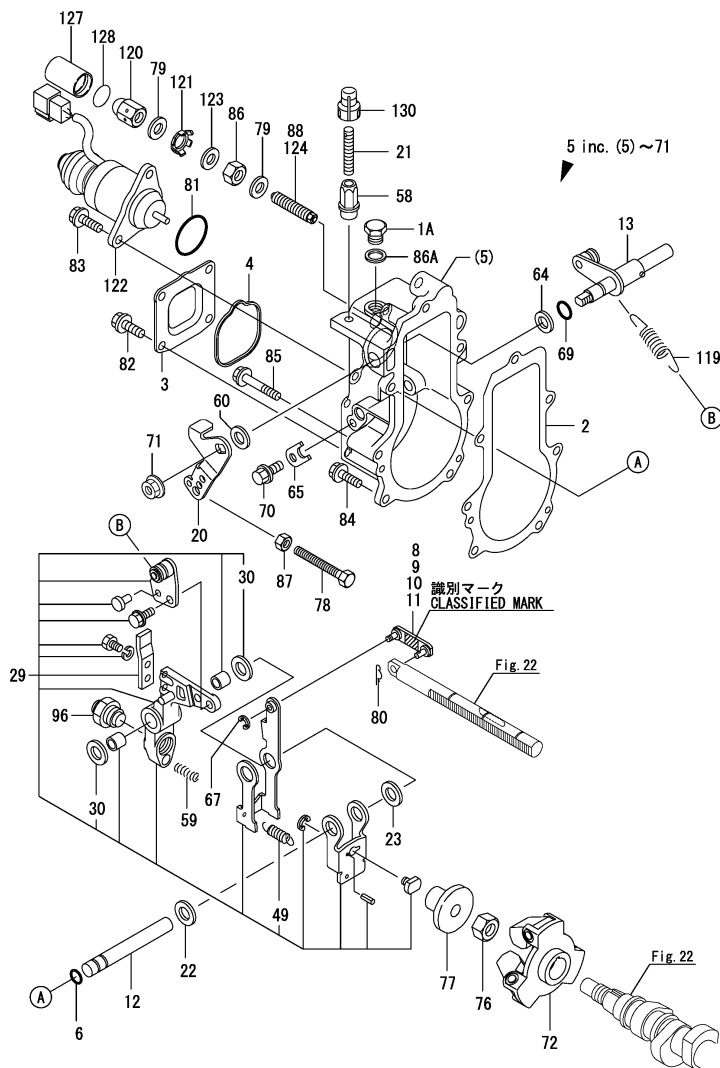
Remarks
(1)Governor(Fig.23) & Fuel feed pump(Fig.24) is incorporated in this Fuel Injection Pump(No.1 & 2).

Fig.23. GOVERNOR



- (1) Selective parts, mark; 3
- (2) Selective parts, mark; 98
- (3) Selective parts, mark; 88
- (4) Selective parts, mark; 03
- (5) Spare parts.

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
 ++ CONTINUE ++
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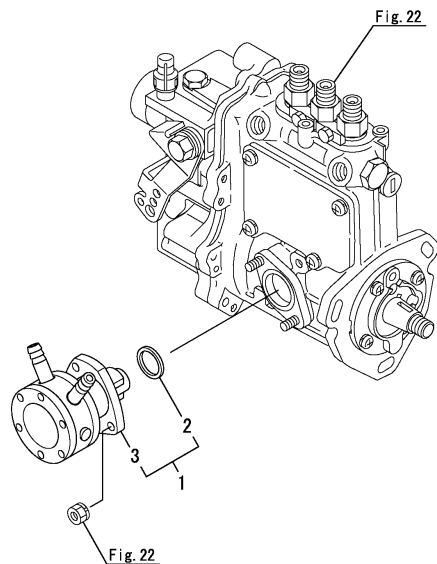


No.	Lev.	Parts No.	Description	(A)=3YM27A (B)=3YM30R (C)=		(D)= (E)= (F)=				I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
122	2	129271-77950	SOLENOID, STOP	1	1						
123	2	23414-120016	GASKET, 12X1.0	1	1						
124	2	120323-61470	BOLT, FUEL CONTROL	1							
127	1	129209-61961	CASE	1	1						5
128	1	24311-000160	O-RING, 1AP16.0	1	1						
130	1	119285-66650	CAP, HIGH-IDLE	1	1						5

* This figure(Governor) is incorporated in the Fuel Injection Pump(Fig.22).

- (1) Selective parts, mark; 3
- (2) Selective parts, mark; 98
- (3) Selective parts, mark; 88
- (4) Selective parts, mark; 03
- (5) Spare parts.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	129158-52000	PUMP ASSY, FUEL FEED	1	1						
2	3	129155-52051	GASKET, PUMP COVER	1	1						
3	3	129158-52101	PUMP ASSY, FUEL FEED	1	1						

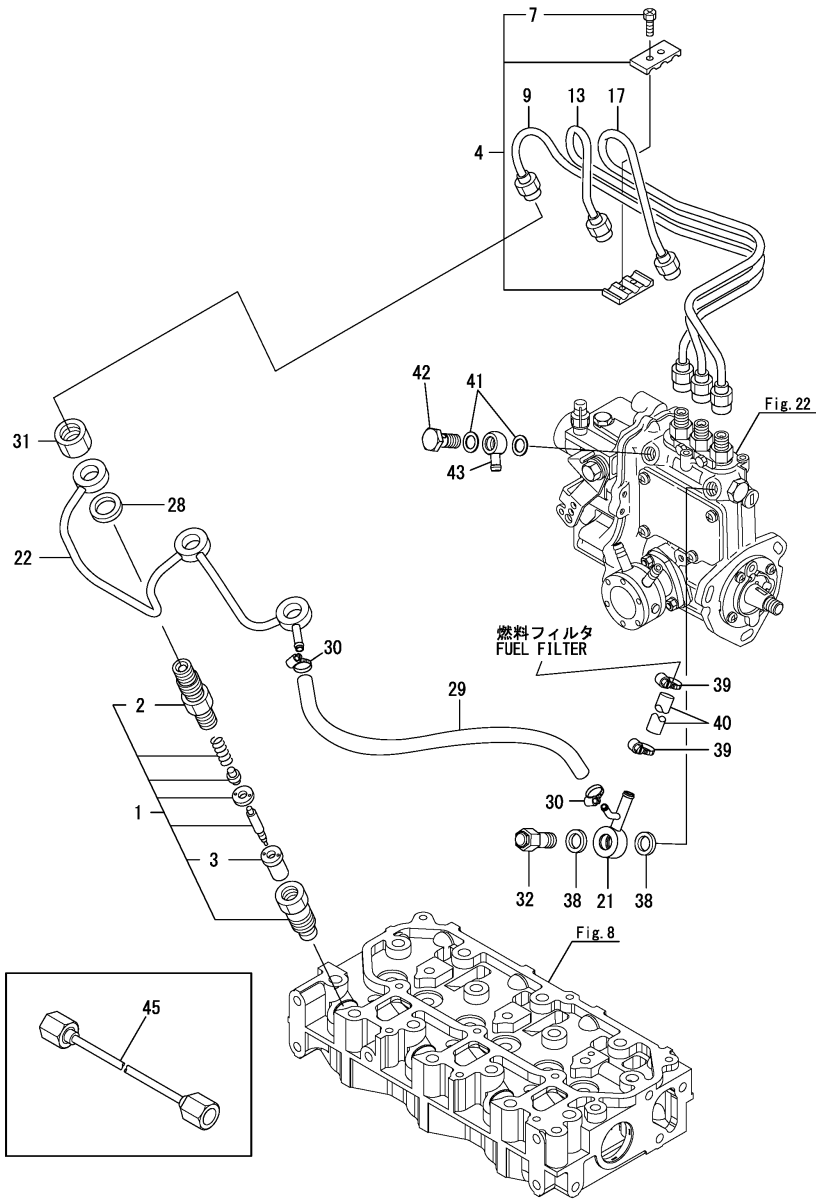


* This figure(Fuel feed pump) is incorporated in the Fuel Injection Pump(Fig.22).

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

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Fig.25. FUEL INJECTION VALVE & FUEL INJECTION PIPE



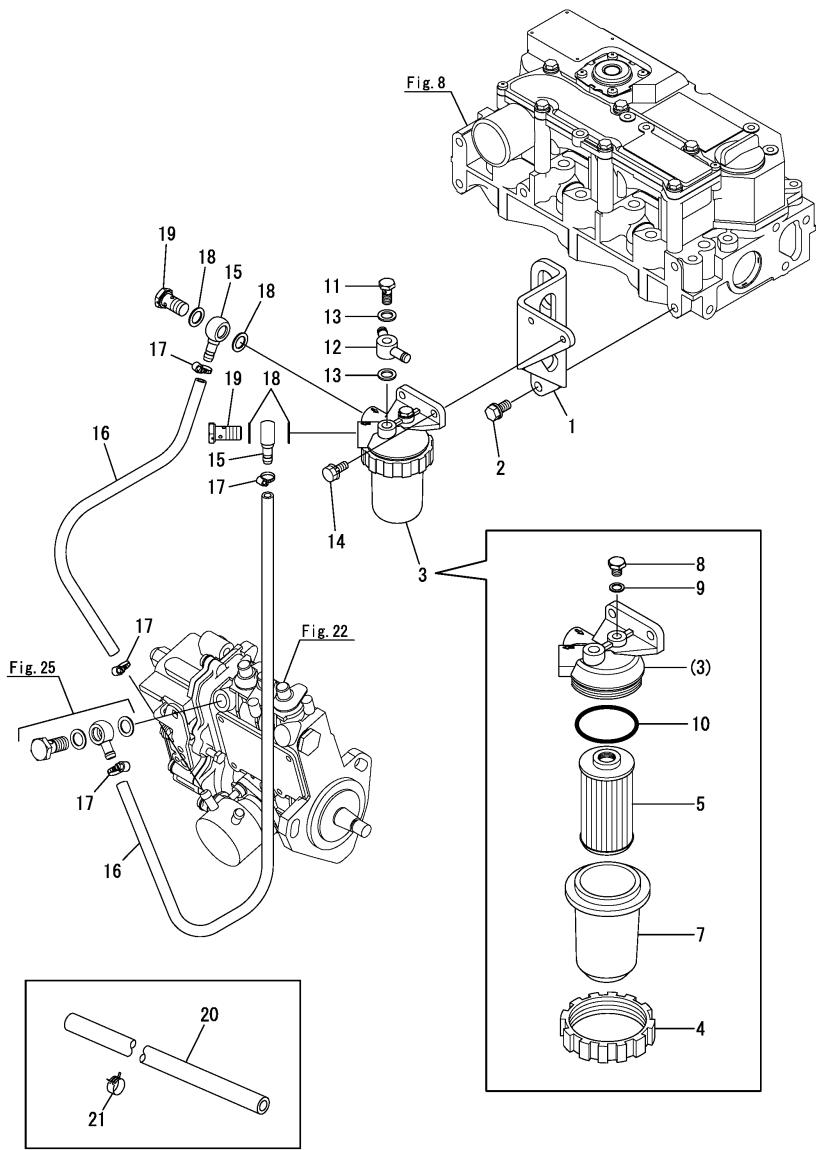
(A)=3YM27A
(B)=3YM30R
(C)=

(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	3						
2	2	118200-53010	HOLDER, NOZZLE	3	3						
3	2	119515-53010	VALVE ASSY,INJECTION	3	3						
4	1	129150-59120	RETAINER, PIPE	1	1						
7	2	129150-59131	BOLT, M4X14	2	2						
9	1	119717-59810	PIPE, INJECTION NO.1	1	1						
13	1	119717-59820	PIPE, INJECTION NO.2	1	1						
17	1	119717-59830	PIPE, INJECTION NO.3	1	1						
21	1	119840-59570	JOINT, OVERFLOW	1	1						
22	1	119717-59510	PIPE ASSY, RETURN	1	1						
28	1	129901-59560	GASKET, FUEL RETURN	3	3						
29	1	119773-59511	PIPE, FUEL	1	1						
30	1	23000-016000	CLAMP, 16	2	2						
31	1	119620-59700	NUT, NOZZLE RETURN	3	3						
32	1	119813-59950	VALVE ASSY, CHECK	1	1						
38	1	22190-120002	WASHER, SEAL 12	2	2						
39	1	23000-016000	CLAMP, 16	2	2						
40	1	128370-59040	PIPE, FUEL	1	1						
41	1	22190-120002	WASHER, SEAL 12	2	2						
42	1	103854-39140	BOLT, PIPE JOINT	1	1						
43	1	101304-59020	JOINT, PIPE 12	1	1						
45	1	128991-59850	PIPE ASSY, INJECTION	1							1

Remarks
(1)For NK.

Fig.26. FUEL PIPE & FUEL FILTER



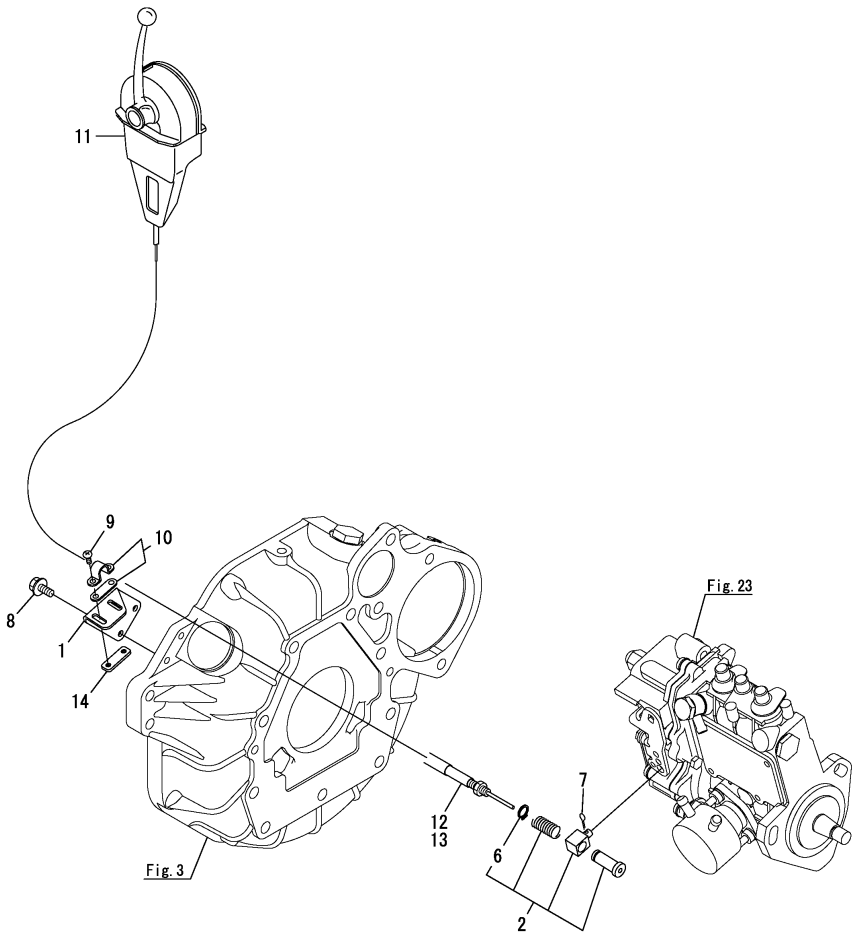
(A)=3YM27A
(B)=3YM30R
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128990-55011	BRACKET, FILTER	1	1						
2	1	26106-080162	BOLT, M8X 16 PLATED	2	2						
3	1	121370-55601	STRAINER ASSY, FUEL	1	1						
4	2	110250-55610	RING, CUP RETAINING	1	1						
5	2	104500-55710	ELEMENT, FUEL FILTER	1	1						
7	2	121370-55730	CUP, STRAINER	1	1						
8	2	101720-55750	PLUG, HEXAGON M6	1	1						
9	2	23418-060000	GASKET, 6X1.0	1	1						
10	2	24341-000440	O-RING, 1AS44.0	1	1						
11	1	128990-59150	BOLT, PIPE JOINT M8	1	1						
12	1	128991-59530	JOINT, FO RETURN	1	1						
13	1	22190-080002	WASHER, SEAL 8	2	2						
14	1	26013-060162	BOLT, M6X 16	2	2						
15	1	104264-59020	JOINT	2	2						
16	1	119172-59201	PIPE, FUEL	2	2						
17	1	23000-016000	CLAMP, 16	4	4						
18	1	22190-120002	WASHER, SEAL 12	4	4						
19	1	23857-060000	BOLT, JOINT 6	2	2						
20	1	129795-59100	PIPE, FUEL L=4000	1	1						1
21	1	23000-016000	CLAMP, 16	4	4						1

Remarks
(1)Loose parts.

Fig.27. CABLE SUPPORT & REMOTE CONTROL HEAD



Remarks
(1)4m.
(2)7m.

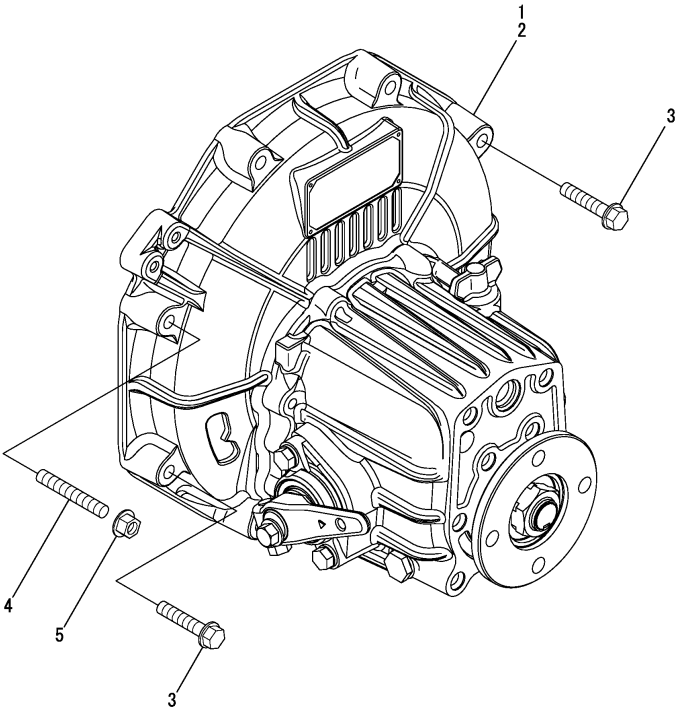
							OCF10-M64501				Fig.27	
							(A)=3YM27A (B)=3YM30R (C)=		(D)= (E)= (F)=			
No.	Lev.	Parts No.	Description	Q'ty		I		R				
				(A)	(B)	(C)	(D)	(E)	(F)			
1	1	128991-67150	BRACKET, CABLE	1	1							
1-1	1	128991-67151	BRACKET, CABLE	1	1						N	
		(A=E/#11700)	(B=*2018.03.)									
2	1	129470-67200	RETAINER ASSY	1	1							
6	2	22242-000100	RING, 10	1	1							
7	1	22372-080000	PIN, SNAP 8	1	1							
8	1	26106-060122	BOLT, M6X 12 PLATED	2	2							
9	1	26557-050202	SCREW, M5X20	2	2							
10	1	41710-000410	CLAMP	1	1							
11	1	41730-000681	CONTROL, MT-3	1	1							
12	1	27730-301400	CABLE, REMO-CON	2	2						1	
13	1	129470-86500	CABLE, L=7000	2	2						2	
14	1	121574-86320	RETAINER	1	1							

Fig.28. CLUTCH

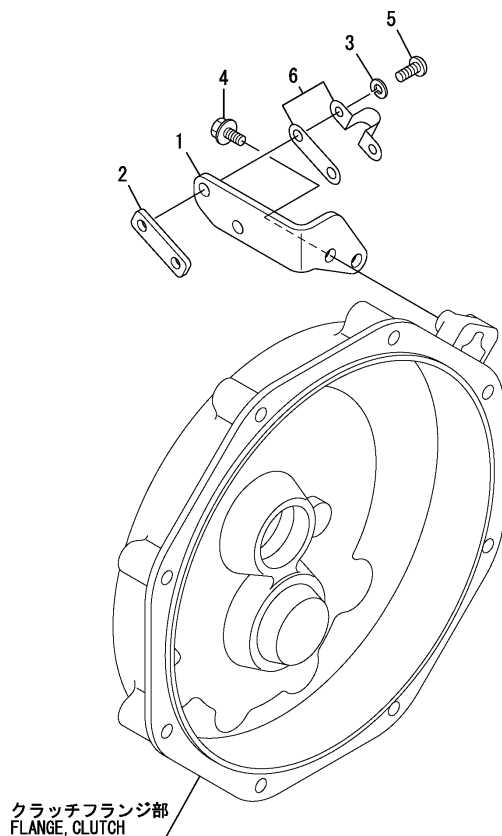
(A)=3YM27A
(B)=3YM30R
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128171-81510	CLUTCH, I=2.21	1							1
2	1	128171-81520	CLUTCH, I=2.62	1	1						2
3	1	26106-080402	BOLT, M8X 40 PLATED	7	7						
4	1	26216-080452	STUD, M8X 45	1	1						
5	1	26366-080002	NUT, M8	1	1						



Remarks
(1)KM2P-1A(Reduction ratio 2.21).
(2)KM2P-1A(Reduction ratio 2.62).



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128991-86310	BRACKET, CABLE	1	1						
2	1	121574-86320	RETAINER	1	1						
3	1	22212-050000	WASHER 5	2	2						
4	1	26106-060122	BOLT, M6X 12 PLATED	2	2						
5	1	26557-050202	SCREW, M5X20	2	2						
6	1	41710-000410	CLAMP	1	1						

Fig.30. COUPLING(OPTIONAL)

(A)=3YM27A
(B)=3YM30R
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129198-85520	COUPLING, SOLID 35	1	1						
2	1	26106-100322	BOLT, M10X 32 PLATED	4	4						
3	1	26706-100002	NUT, M10	4	4						

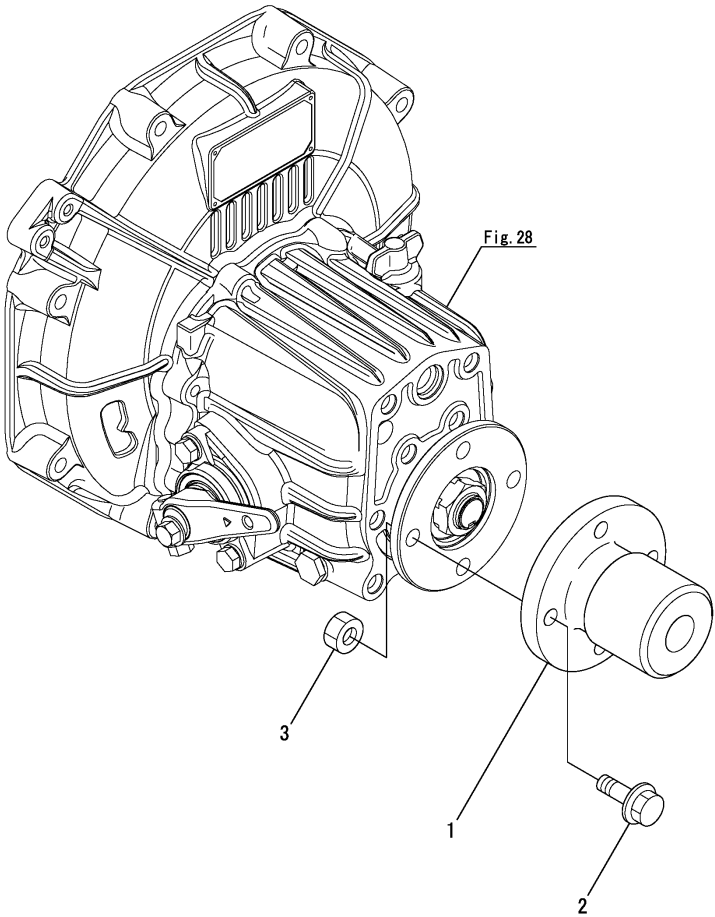
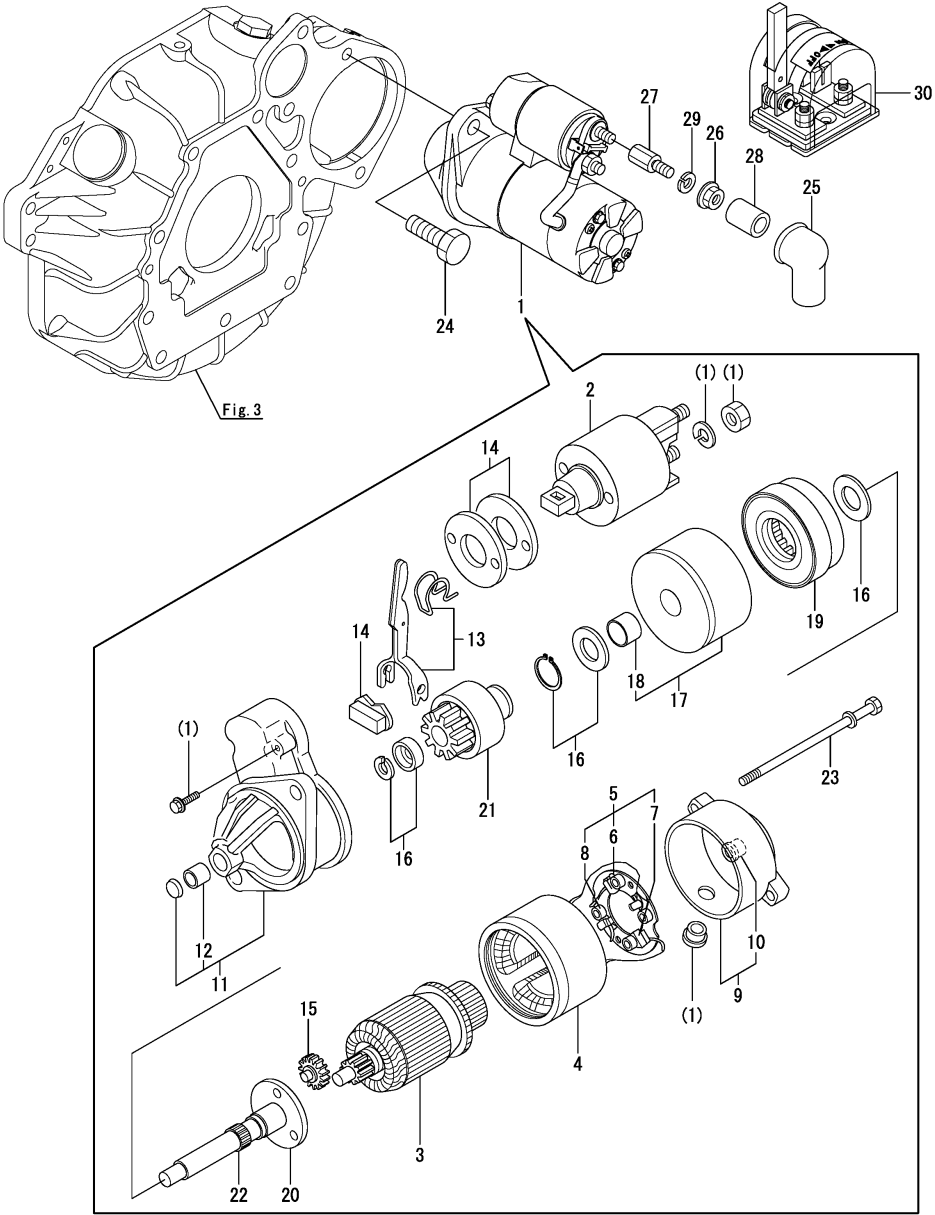


Fig.31. STARTER MOTOR

(A)=3YM27A
(B)=3YM30R
(C)=

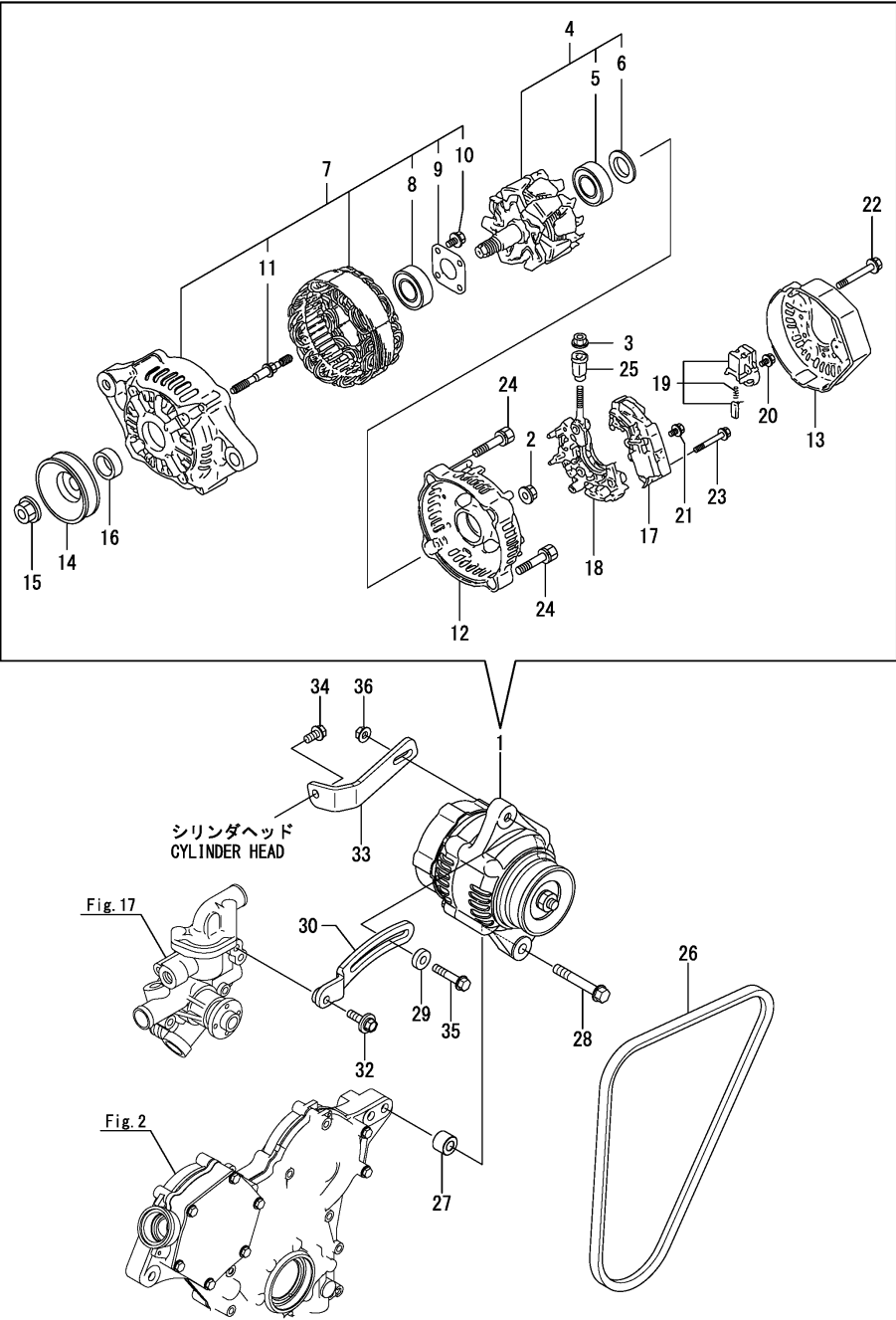
(D)=
(E)=
(F)=



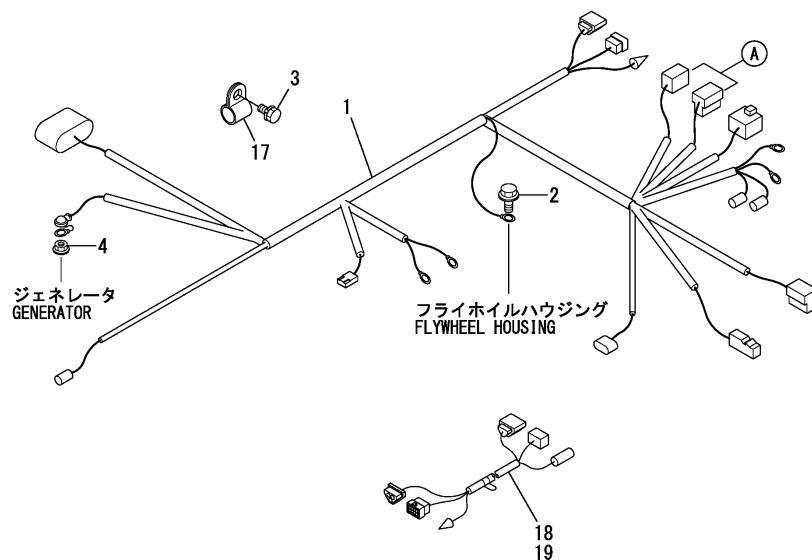
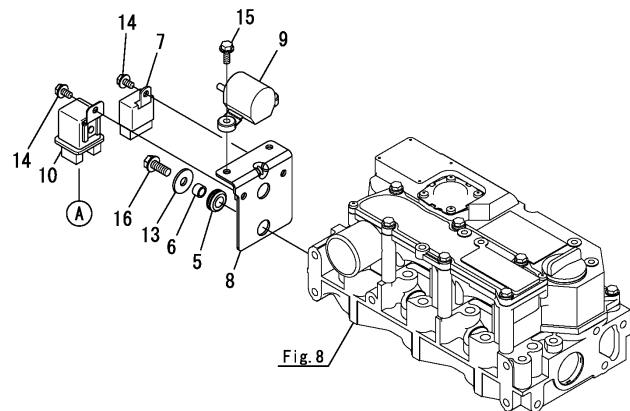
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129608-77010	STARTER ASSY	1	1						
2	2	129698-77020	SWITCH ASSY, MAGNET	1	1						
3	2	129698-77101	ARMATURE ASSY	1	1						
4	2	129608-77110	YOKE ASSY	1	1						
5	2	129698-77120	HOLDER ASSY, BRUSH	1	1						
6	3	129698-77140	BRUSH SET	1	1						
7	3	129698-77130	BRUSH	2	2						
8	3	129698-77150	SPRING, BRUSH	4	4						
9	2	129698-77161	COVER ASSY, STARTER	1	1						
10	3	129698-77170	BEARING, REAR COVER	1	1						
11	2	129698-77260	CASE ASSY, GEAR	1	1						
12	3	X2114535200	METAL, STARTER	1	1						
13	2	129698-77270	LEVER SET, SHIFT	1	1						
14	2	129698-77280	COVER KIT, DUST	1	1						
15	2	129698-77240	GEAR, PLANETARY	3	3						
16	2	129698-77250	WASHER SET	1	1						
17	2	129698-77180	BRACKET, CENTER P	1	1						
18	3	129698-77190	BRACKET, CENTER	1	1						
19	2	129698-77200	GEAR, INTERNAL	1	1						
20	2	129698-77210	BRACKET, CENTER A	1	1						
21	2	129698-77220	PINION ASSY	1	1						
22	2	129698-77230	SHAFT, PINION	1	1						
23	2	124195-77770	BOLT, THROUGH	2	2						
24	1	26116-120302	BOLT, M12X 30 PLATED	2	2						
25	1	124550-77030	COVER, TERMINAL B	1	1						
26	1	26756-080002	NUT, LOCK M8	1	1						
27	1	119175-77500	BOLT, SPACER	1	1						
28	1	128991-77800	COVER	1	1						
29	1	22113-080000	WASHER, 8	1	1						
30	1	123310-77640	SWITCH, BATTERY	1	1						1

Remarks
(1)Loose parts.

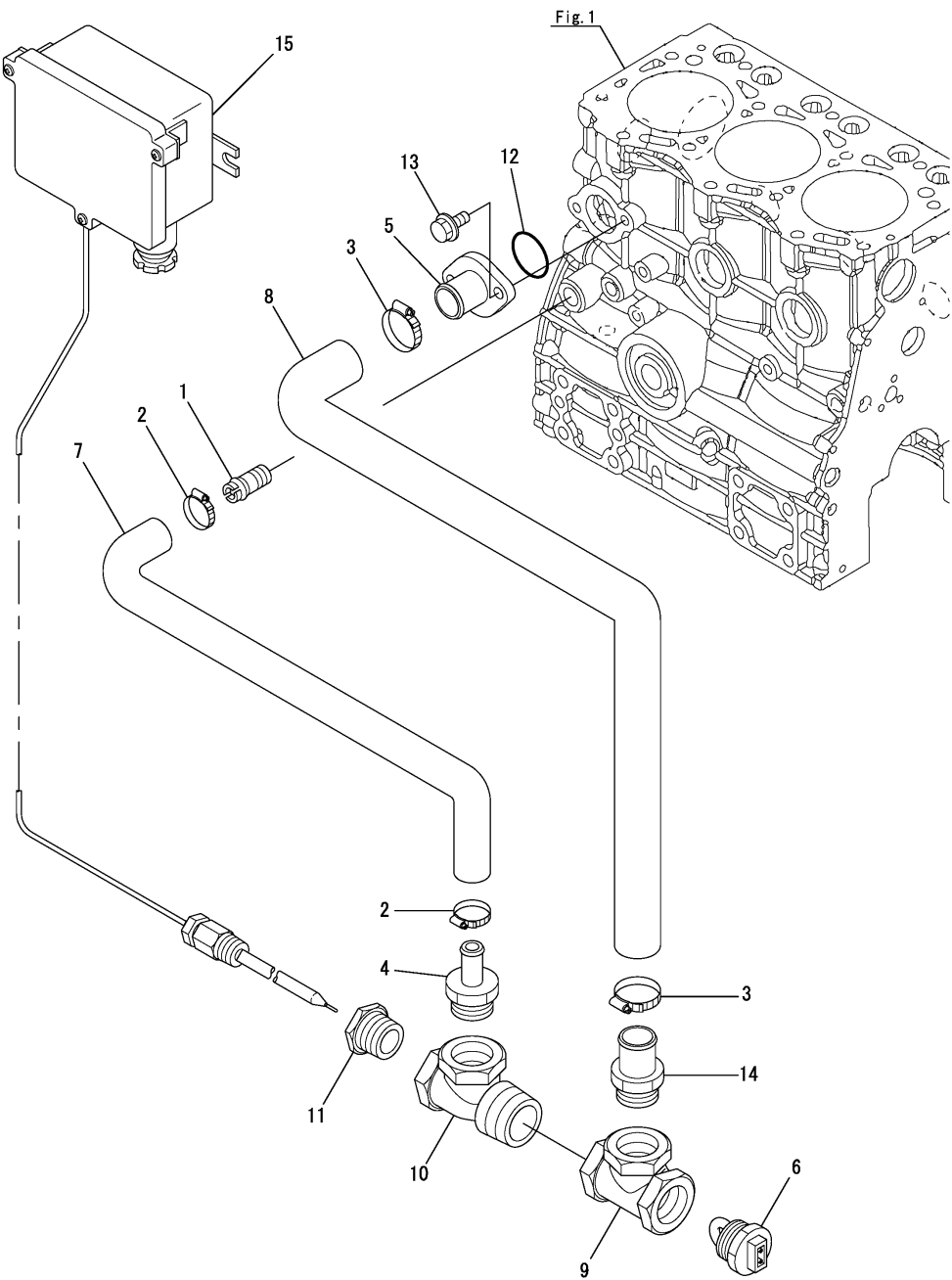
Fig.32. GENERATOR



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119626-77210	ALTERNATOR, 12V-55A	1	1						
1-1	1	119626-77220	ALTERNATOR, 12V-55A	1	1						R
		(A=E/#11118) (B=*2016.09.)									
2	2	119620-79350	NUT	2	2						
3	2	X9490561001	NUT	1	1						
4	2	129052-77380	ROTOR ASSY	1	1						
5	3	123501-79240	BEARING, BALL	1	1						
6	3	119620-79250	COVER, BEARING	1	1						
7	2	129052-77422	FRAME ASSY	1	1						
8	3	119620-79200	BEARING, BALL	1	1						
9	3	119620-79210	PLATE, RETAINER	1	1						
10	3	119620-79220	SCREW	4	4						
11	3	119620-79230	STUD	2	2						
12	2	128401-77440	COVER, END	1	1						
13	2	119626-77450	COVER, END	1	1						
14	2	119620-77461	PULLEY, GENERATOR	1	1						
15	2	119620-77471	NUT	1	1						
16	2	119620-77490	COLLAR	1	1						
17	2	129423-77710	REGULATOR ASSY	1	1						
17-1	2	129423-77720	REGULATOR ASSY	1	1						R
		(A=E/#11118) (B=*2016.09.)									
18	2	129052-79260	HOLDER ASSY	1	1						
19	2	129052-79270	HOLDER ASSY, BRUSH	1	1						
20	2	119620-79290	SCREW	6	6						
21	2	119620-79300	SCREW	1	1						
22	2	119620-79310	BOLT	3	3						
23	2	119620-79320	SCREW, W/WASHER	2	2						
24	2	119620-79330	BOLT	2	2						
25	2	119620-79340	BUSH, INSULATION	1	1						
26	1	129258-42290	V-BELT, A36.5	1	1						
27	1	128991-77270	SPACER, ALTERNATOR	1	1						
28	1	26106-100652	BOLT, M10X 65 PLATED	1	1						
29	1	128296-77320	SPACER,ADJUSTER	1	1						
30	1	128991-77330	ADJUSTER, BELT	1	1						
32	1	119810-77340	BOLT, ADJUSTER L=30	1	1						
33	1	128991-77350	SUPPORT,ALTERNATOR	1	1						
34	1	26106-080162	BOLT, M8X 16 PLATED	1	1						
35	1	26106-080454	BOLT, M8X 45 PLATED	1	1						
36	1	26366-080002	NUT, M8	1	1						



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	128991-77920	HARNESS, WIRE	1	1						
2	1	26106-080122	BOLT, M8X 12 PLATED	1	1						
3	1	26106-080142	BOLT, M8X 14 PLATED	1	1						
4	1	26366-060002	NUT, M6	1	1						
5	1	105100-55501	RUBBER, FUEL TANK	2	2						
6	1	105100-55540	COLLAR, TANK	2	2						
7	1	119247-77100	RELAY, POWER SN2213	1	1						
8	1	128991-77400	BRACKET, RELAY	1	1						
9	1	128990-77550	RELAY, MAGNET	1	1						
10	1	128990-77911	RELAY, GLOW	1	1						
13	1	22157-080000	WASHER, 8	2	2						
14	1	26106-060102	BOLT, M6X 10 PLATED	2	2						
15	1	26106-060162	BOLT, M6X 16 PLATED	2	2						
16	1	26106-080202	BOLT, M8X 20 PLATED	2	2						
17	1	121575-49310	RETAINER, PIPE	1	1						
18	1	164100-22720	HARNESS, WIRE 4M	1	1						
19	1	164100-22730	HARNESS, WIRE 6M	1	1						

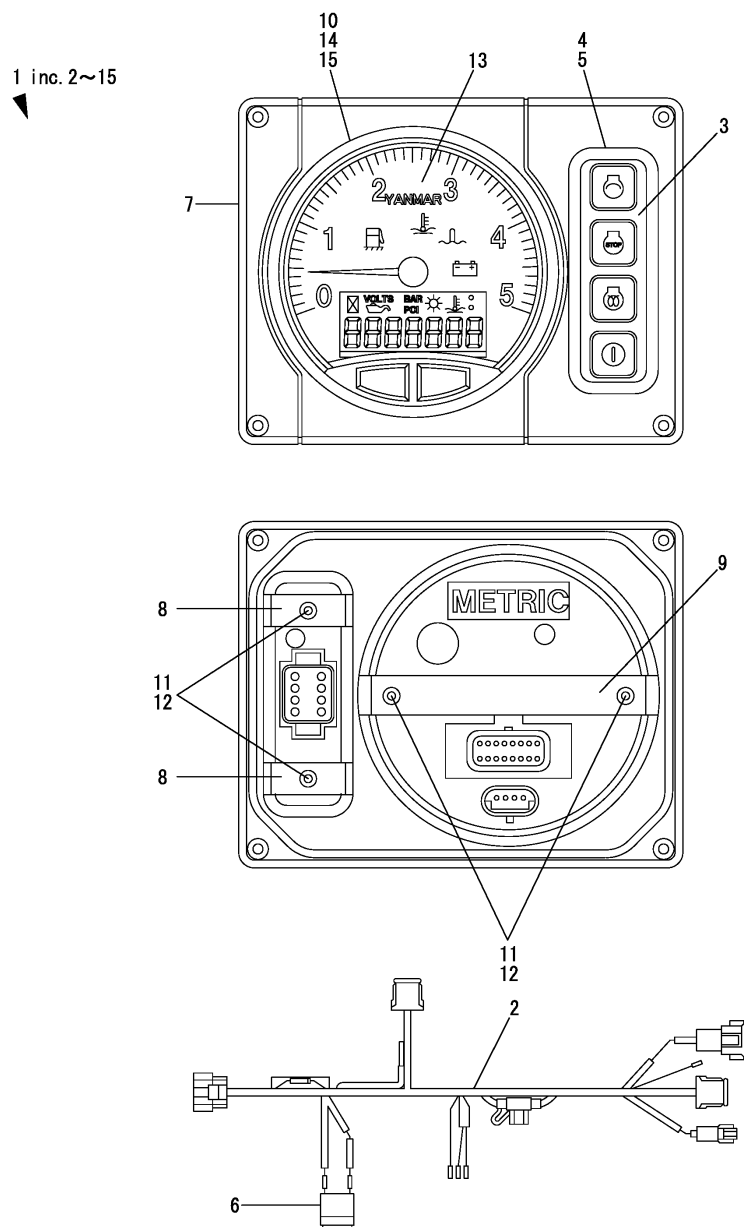


(A)=3YM27A
(B)=3YM30R
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129122-44480	JOINT, PT1/4	1	1						
2	1	119172-48250	CLIP, HOSE 25	2	2						
3	1	119172-48350	CLIP, HOSE 35	2	2						
4	1	128991-49940	JOINT, B	1	1						
5	1	128991-49950	JOINT, C	1	1						
6	1	171015-77900	BLOCK, HEATER	1	1						
7	1	23072-041000	HOSE, 4 X 1000	1	1						
8	1	23072-101000	HOSE, 10X1000	1	1						
9	1	23121-100007	ELBOW, R 1	1	1						
10	1	23122-100007	JOINT, T R1	1	1						
11	1	23161-100407	BUSH, R1X1/2	1	1						
12	1	24341-000340	O-RING, 1AS34.0	1	1						
13	1	26106-080182	BOLT, M8X 18 PLATED	2	2						
14	1	43530-500570	JOINT, PIPE	1	1						
15	1	46111-554360	SWITCH, TEMPERATURE	1	1						

Fig.35. INSTRUMENT PANEL

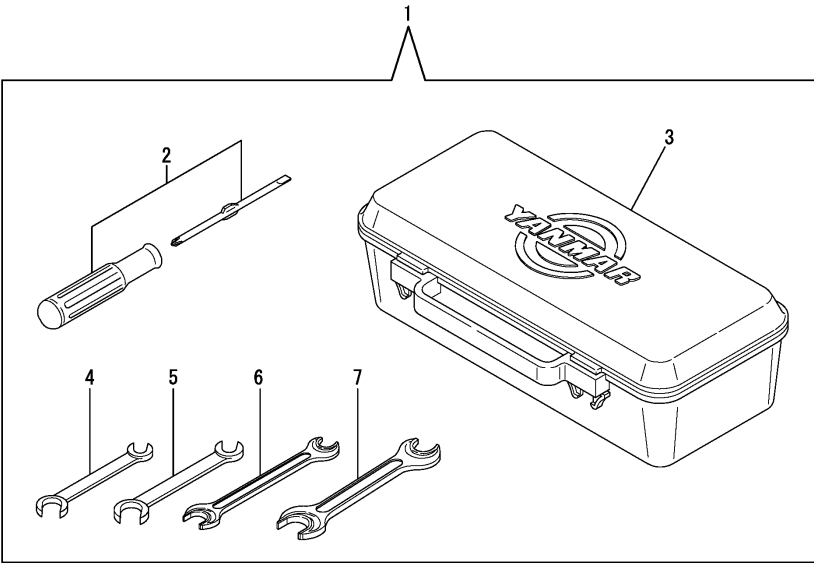


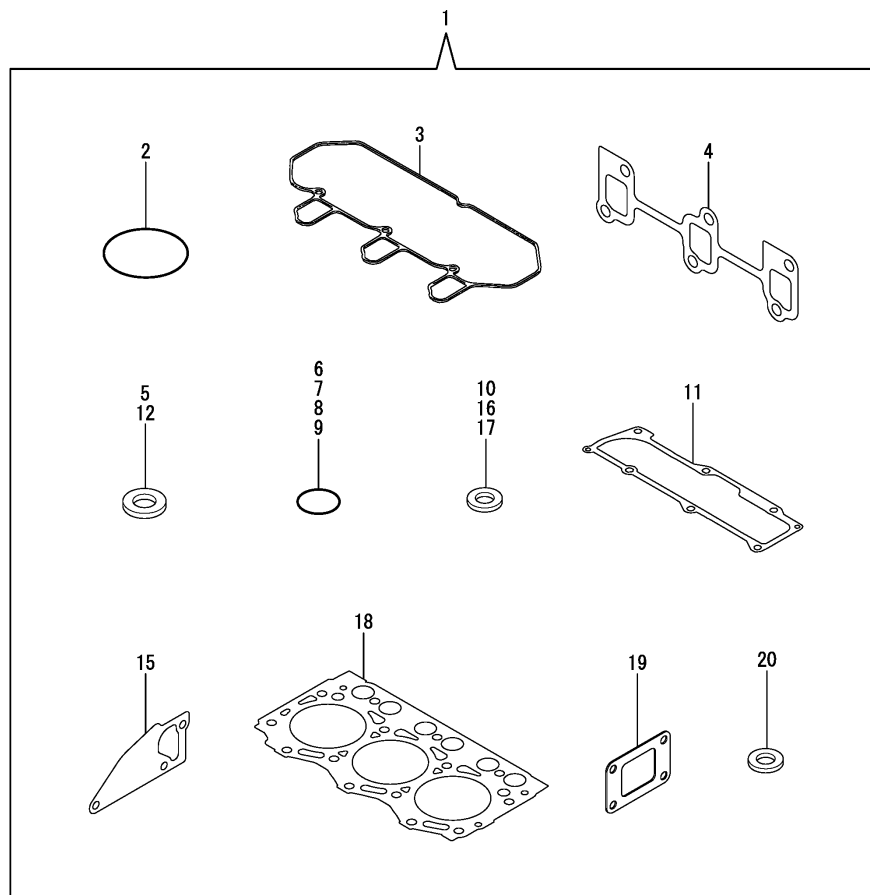
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	164100-30101	PANEL ASSY, B20	1	1						
1-1	1	164100-30102	PANEL ASSY, B20 MD	1	1						N
		(A=E/#9685)	(B=*2015.05.)								
1-2	1	164100-30103	PANEL ASSY, B20 MD	1	1						N
		(A=E/#10275)	(B=*2015.05.)								
1-3	1	164100-30104	PANEL ASSY, B20 MD	1	1						N
		(A=E/#11234)	(B=*2017.06.)								
2	2	164100-21100	HARNESS, PANEL	1	1						
3	2	164100-31101	SWITCH, PANEL MD	1	1						
3-1	2	164100-31102	SWITCH, PANEL MD	1	1						N
		(A=E/#11234)	(B=*2017.06.)								
4	2	164100-31150	GASKET, SWITCH MD	1	1						
5	2	164100-31900	BEZEL, SWITCH BK MD	1	1						
6	2	164100-36100	BUZZER, PANEL	1	1						
7	2	164100-39100	FRAME, PANEL B	1	1						
8	2	164100-39120	BRACKET, SWITCH MD	2	2						
9	2	164100-39130	BRACKET, GAUGE 5	1	1						
9-1	2	164100-39131	BRACKET, GAUGE 5 MD	1	1						N
		(A=E/#9685)	(B=*2015.05.)								
10	2	164100-39150	CAP, GAUGE TERMINAL	1	1						
11	2	164100-39180	WASHER, LOCK MD	4	4						
12	2	164100-39190	NUT, M3.5 MD	4	4						
13	2	164100-53101	GAUGE, TACH LCD 5 MD	1	1						
13-1	2	164100-53102	GAUGE, TACH LCD 5 MD	1	1						N
		(A=E/#9685)	(B=*2015.05.)								
13-2	2	164100-53103	GAUGE, TACHOMETER	1	1						N
		(A=E/#10275)	(B=*2015.05.)								
14	2	164100-53150	GASKET, GAUGE 5 MD	1	1						
15	2	164100-53900	BEZEL, GAUGE 5 BK MD	1	1						

(A)=3YM27A
(B)=3YM30R
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719195-92500	TOOL ASSY	1	1						
2	2	104200-92350	DRIVER, SCREW	1	1						
3	2	104200-92600	BOX, SPARE PARTS	1	1						
4	2	28110-080100	SPANNER, 8X10	1	1						
5	2	28110-100130	SPANNER, 10X13	1	1						
6	2	28110-120140	SPANNER, 12X14	1	1						
7	2	28110-170190	SPANNER, 17X19	1	1						





No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	728990-92600	GASKET SET	1	1						
2	2	121850-51960	O-RING, FUEL PUMP	1	1						
3	2	119718-11310	GASKET, BONNET	1	1						
4	2	119717-13110	GASKET, MANIFOLD	1	1						
5	2	22190-080002	WASHER, SEAL 8	4	4						
6	2	24311-000320	O-RING, 1AP32.0	2	2						
7	2	119717-32060	O-RING, P15.0	1	1						
8	2	119624-32040	O-RING, P12.0	1	1						
9	2	119717-32050	O-RING, P17.0	2	2						
10	2	119600-11460	GASKET, NOZZLE	6	6						
11	2	119717-11331	GASKET, BONNET COVER	1	1						
12	2	22190-160002	WASHER, SEAL 16	1	1						
15	2	119717-42020	GASKET, WATER PUMP	1	1						
16	2	23414-080000	GASKET, 8X1.0	1	1						
17	2	124465-44950	GASKET, 16	1	1						
18	2	119717-01331	GASKET, HEAD	1	1						
19	2	128370-13201	GASKET, ELBOW A	1	1						
20	2	129150-49360	GASKET, 10	1	1						

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104264-59020	26	15
104500-55710	26	5
104511-78780	16	29
105010-11490	8	5
105100-55501	33	5
105100-55540	33	6
105311-01090	1	5
110250-55610	26	4
114250-39450	15	6
118200-53010	25	2
119125-51370	22	68
119125-51900	22	100
119172-48250	34	2
119172-48350	20	6
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119172-59201	26	16
119175-77500	31	27
119247-77100	33	7
119285-01990	1	7
119285-11990	8	14
119285-66650	23	130
119305-35160	15	2
119515-53001	25	1
119515-53010	25	3
119515-61440	23	20
119527-61700	23	119
119600-11460	8	4
	37	10
119609-32040	4	17
119620-01750	3	4
119620-01800	2	9
119620-02020	1	8
119620-11280	8	29
119620-14200	12	1
119620-21941	13	14
119620-49290	17	28
119620-59700	25	31
119620-77461	32	14
119620-77471	32	15
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119620-79230	32	11
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119620-79300	32	21
119620-79310	32	22
119620-79320	32	23
119620-79330	32	24
119620-79340	32	25
119620-79350	32	2
119621-21681	13	13
119623-01250	1	6
119624-32040	2	19
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119626-77210	32	1
119626-77220	32	1 -1
119626-77450	32	13
119660-01911	2	18
119660-61901	23	65
119717-01331	1	28
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119717-01501	2	1
119717-01521	2	6
119717-01570	2	3
119717-01720	4	24
119717-01750	2	31
119717-02411	1	11
119717-02930	1	24
119717-03031	9	2
		20
119717-03070	9	3
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119717-11101	8	16
119717-11110	8	17
119717-11131	8	18
119717-11190	8	20
119717-11200	8	24
119717-11240	8	25
119717-11260	8	28
119717-11320	9	13
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119717-11331	9	14
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119717-21700	13	1
119717-22300	13	22
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119717-23910	13	33
119717-25050	12	10
119717-25101	12	11
119717-25911	12	17
119717-25930	12	16
119717-32050	2	20
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119717-32060	15	3
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119717-32080	2	11
119717-32100	2	10
119717-32110	2	15
119717-32120	2	16
119717-35140	15	1
119717-39210	15	7
119717-42020	17	13
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119717-42041	17	3
119717-51030	22	6
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119717-51150	22	14
119717-51190	22	17
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119717-61140	23	10
119717-61150	23	11
119717-61201	23	72
119717-61400	23	13
119717-61500	23	29
119717-77801	8	37
119718-01740	4	10
119718-11310	9	12
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128171-81510	28	1
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128270-12540	10	11
128275-39700	15	12
128296-07190	7	10
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128991-03150	5	1
128991-03160	5	2
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128991-03190	5	4
128991-07190	7	10 -1
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128991-07460	7	14 -1
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128991-11380	9	1
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128991-12500	10	2
128991-13510	11	29
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128991-34810	14	1
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128991-42160	16	26
128991-42170	16	27
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128991-42510	16	1
128991-42670	38	2
128991-44070	18	34
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128991-49940	34	4
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26216-080452	28	4

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26306-080002	2	28
26366-060002	33	4
26366-080002	16	32
		33
	23	71
	28	5
	32	36
26366-100002	14	11
26557-040062	9	9
26557-050202	27	9
	29	5
26577-060122	17	9
26706-100002	30	3
26716-120002	22	103
26716-140002	6	17
26756-060002	23	87
26756-080002	31	26
26979-050162	8	35
27233-250000	11	4
		18
		32
27241-120000	1	14
27241-250000	17	10
27730-301400	27	12
28110-080100	36	4
28110-100130	36	5
28110-120140	36	6
28110-170190	36	7
41710-000410	27	10
	29	6
41730-000681	27	11
43530-500570	34	14
43662-015021	19	8
43666-020951	19	9
46111-554360	34	15
711100-51540	22	19 A
719195-92500	36	1
719717-01500	2	5
719717-01561	1	1
719717-02901	1	29
719717-02911	1	32
728990-51350	22	2
728990-92600	37	1
728991-51350	22	1
977780-01211	21	1
977780-03000	21	9
X00141916	16	21
X00183200	16	24
X00190050	16	23
X00353309	16	20

Parts No.	Fig. No.	Ref. No.
X00370012	16	15
X00371732	16	16
X0044021509	21	7
X0142398	16	4
X0145050	16	9
X0146541	16	10
X0146542	16	11
X014678901	16	19
X02173432	16	5
		12
X02173476	16	6
X02233010	16	7
X0318101004	21	2
X03431748	16	14
X03431760	16	13
X158606410X	21	3
X179100022X	21	5
X179100100X	21	6
X199906101X	21	8
X2114535200	31	12
X8636015001	21	4
X9490561001	32	3

Parts No.	Fig. No.	Ref. No.
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