Løkken Smede- & Maskinværksted A/S
Egevej 41 · 9480 Løkken · Tlf. 98 99 14 75 · Fax 98 99 24 27
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Spare parts catalog- Yanmar engines

(A) = 4BY150
(B) = 4BY180
(C) = 4BY150Z
(D) = 4BY180Z

Fig.1.CYLINDER BLOCK

1.CYLINDER BLOCK

(A)=4BY150
(B)=4BY180
(C)=4BY150Z
(D)=4BY180Z
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY (A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	165000-67770	BOLT, HEX M10X80	10	10	10	10				
2	1	165000-67790	STUD, M8X42	3	3	3	3				
3	1	165000-67730	BOLT, BEARING	3	3	3	3				
4	1	165000-67760	BOLT, BEARING	1	1	1	1				
5	1	165000-67780	NOZZLE, OIL SPRAYING	1	1	1	1				
6	1	165000-67750	GASKET, PROFILE	1	1	1	1				
7	1	165000-67400	SCREW, HEAD M6X16	1	1	1	1				
8	1	165000-67290	PLUG, SCREW M14X1.5	1	1	1	1				
9	1	165000-67470	RING, GASKET 14X20	1	1	1	1				
10	1	165000-67880	DOWEL, D=10.5MM	6	6	6	6				
11	1	165000-67720	DOWEL, D=14.5MM	2	2	2	2				
12	1	165000-67740	DOWEL, D=14.5MM	2	2	2	2				
13	1	165000-69480	NOZZLE, OIL SPRAYING	4	4	4	4				
14	1	165000-67410	SCREW, HEAD M6X10	8	8	8	8				

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Fig.2.LOWER TIMING CASE/BELT W PUMP

Y00R6381 2.LOWER TIMING CASE/BELT W PUMP

(A)=4BY150
(B)=4BY180
(C)=4BY150Z
(D)=4BY180Z
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY (A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	165000-68430	COVER, TIMING CASE	1	1	1	1				
2	2	165000-68390	PLUG, SCREW M40X1.5	1	1	1	1				
3	2	165000-68400	O-RING, 35 2.0	1	1	1	1				
4	2	165000-68420	SEAL, SHAFT 55 68 8	1	1	1	1				
5	1	165000-68410	PLUG, SCREW M30X1	1	1	1	1				
6	1	165000-68450	GASKET, STEEL	1	1	1	1				
7	1	165000-69690	SCREW, TORX M7X38	14	14	14	14				
8	1	165000-69130	TENSIONER, BELT	1	1	1	1				
9	1	165000-69140	TENSIONER, BELT	1	1	1	1				
10	1	165000-69120	SEALING	1	1	1	1				
11	1	165000-67230	BOLT, HEX M6 30	1	1	1	1				
13	1	165000-67330	SCREW, HEAD M8X35	1	1	1	1				

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Fig.3.FLYWHEEL HOUSING

3.FLYWHEEL HOUSING

(A)=4BY150 (D)=4BY180Z
(B)=4BY180 (E)=
(C)=4BY150Z (F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY (A)	(B)	(C)	(D)	(E)	(F)	I	R
2	1	120650-01900	PLATE ASSY, COVER	1	1	1	1				
5	1	120640-01460	SCREW, M6X12	1	1	1	1				
6	1	120652-01810	HOUSING, FLYWHEEL	1	1					N	
	(A=E*****)	(B=E*****)									
8	1	120640-02040	BOLT, M12X100-8.8	2	2						
10	1	120640-02250	WASHER	2	2						
11	1	120650-01700	HOUSING ASSY, WHEEL			1	1				
12	2	120650-01710	HOUSING, FLYWHEEL			1	1			N	
			(C=E*****) (D=E*****)								
14	2	120640-00220	PIN, PARALLEL 8X20	1	1	1	1				
15	2	120650-01760	MOUNT, RUBBER REAR			2	2				
16	2	119778-08350	SPACER			1	1				
17	1	120640-02060	BOLT, M12X130-8.8			2	2				
18	1	120640-02050	BOLT,M12X130-8.8	2	2	2	2				
19	1	120640-01940	BOLT, M8X100-8.8	3	3						
20	1	120640-01950	BOLT, M8X130-8.8			3	3				
21	1	120640-01870	BOLT, M8X40-8.8	1	1	1	1				
22	1	120640-02010	BOLT, M10X100-8.8	2	2						
23	1	120640-02020	BOLT, M10X130-8.8			2	2				

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Fig.4.OIL PAN/LUB. OIL SUMP

4.OIL PAN/LUB. OIL SUMP

(A)=4BY150 (D)=4BY180Z
(B)=4BY180 (E)=
(C)=4BY150Z (F)=

	REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY (A)	(B)	(C)	(D)	(E)	(F)	I	R
	1	1	165000-68300	GASKET	1	1	1	1				
	2	1	120650-01600	SUMP ASSY, OIL	1	1	1	1				
	3	2	120650-01610	SUMP, OIL	1	1	1	1				
I	3-1	2	165000-93250	SUMP,LUB.OIL (D=4.06)	1			1				R
	4	2	120650-01560	PLATE, BAFFLE	1	1	1	1				
	5	2	120650-51620	SCREW, M6X12	7	7	7	7				
	6	2	120640-00190	BOLT, M8X55-8.8	1	1	1	1				
	7	2	120640-01230	RING, SEALING A12X16	1	1	1	1				
	8	2	120650-01650	PLUG, M18X1.5	1	1	1	1				
	9	3	120650-34900	O-RING,15.3X2.2	1	1	1	1				
	10	1	120650-34840	GUIDE ASSY, DIPSTICK	1	1	1	1				
	13	1	120650-34890	O-RING, 14X3	2	2	2	2				
	14	1	120640-02080	BOLT, M6X16-8.8	1	1	1	1				
	15	1	120640-00060	DIPSTICK, OIL	1	1	1	1				
	16	1	165000-68360	BOLT, TORX M8X30	15	15	15	15				
	17	1	165000-68340	BOLT, TORX M6X60	2	2	2	2				
I	18	1	165000-71010	BOLT,M8X110 (B=0/) (C=05/10/) (D=046) (E=1390 04)	2	2	2	2				W
I	19	1	165000-93230	PLUG,SCREW M10X1 (D=4.06)	1			1				W
I	20	1	165000-93240	RING,GASKET (D=4.06)	1			1				W
I	21	1	165000-93270	PLUG,SCREW (D=4.06)	1			1				W

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Fig.5.ENGINE BRACKET

5.ENGINE BRACKET

(A)=4BY150
(B)=4BY180
(C)=4BY150Z
(D)=4BY180Z
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY (A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	120650-08100	BRACKET, ENGINE INT	1	1	1	1				
3	1	120640-01880	BOLT, M8X50-10.9	4	4	4	4				
4	1	120640-01860	BOLT, M8X30-10.9	2	2	2	2				
5	1	120650-08110	BRACKET, ENGINE EXH	1	1	1	1				
7	1	120640-01920	BOLT, M8X70-10.9	4	4	4	4				
8	1	120640-01880	BOLT, M8X50-10.9	2	2	2	2				
9	1	120650-08401	MOUNT, ENGINE	2	2	2	2				
	(A=E*****)	(B=E*****)	(C=E*****) (D=E*****)								
10	1	120640-02240	WASHER	2	2	2	2				
11	1	120650-18460	BRACKET,AIR CHARGE R	1	1	1	1				
13	1	120640-01870	BOLT, M8X40-8.8	4	4	4	4				

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Fig.6.LABEL

6.LABEL

(A)=4BY150
(B)=4BY180
(C)=4BY150Z
(D)=4BY180Z
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY (A)	(B)	(C)	(D)	(E)	(F)	I	R
6	1	120650-07030	LABEL, LIFTER	1	1	1	1				
7	1	120650-07040	LABEL, PRESSURE CAP	1	1	1	1				
8	1	120650-07050	LABEL, OIL DANGER	1	1	1	1				
9	1	120650-07060	LABEL, HOT SURFACE	1	1	1	1				
10	1	120650-07070	LABEL, INTERVAL	1	1	1	1				
11	1	120650-07080	LABEL, ROTATION ENG.	1	1	1	1				
13	1	120650-07100	LABEL, MANUAL	1	1	1	1				
14	1	120650-07110	LABEL, IMO	1	1	1	1				
15	1	120650-07120	LABEL, DONT STEP	1	1	1	1				
16	1	120650-07130	LABEL, YANMAR LOGO	1	1	1	1				
17	1	120650-07150	LABEL, BSO	1	1	1	1				
18	1	120650-07160	LABEL, RCD FAMILY NA	1	1	1	1				
19	1	120650-07170	LABEL, CE MARK	1	1	1	1				
20	1	120650-07190	LABEL, RECREATIONAL	1	1	1	1				

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Fig.7.CYL.HEAD/VALVE TRAIN-CAMSHAFT

Y00R6381 7.CYL.HEAD/VALVE TRAIN-CAMSHAFT

(A)=4BY150
(B)=4BY180
(C)=4BY150Z
(D)=4BY180Z
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY (A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	165000-68220	HEAD, CYLINDER	1	1	1	1				
2	1	165000-67920	BOLT, TORX M6X30	20	20	20	20				
3	1	165000-68130	STUD, M8X55	8	8	8	8				
4	1	165000-67930	STUD, M7X65	5	5	5	5				
5	1	165000-67420	COVER, D=24MM	2	2	2	2				
6	1	165000-67870	PLUG, SCREW M8X1	2	2	2	2				
7	1	165000-67910	PLUG, SCREW M12X1.5	1	1	1	1				
8	1	165000-67900	PLUG, SCREW M14X1.5	2	2	2	2				
9	1	165000-69290	ROD, VALVE PUSH	16	16	16	16				
10	1	165000-69280	LEVER, DRAG	16	16	16	16				
11	1	165000-69320	VALVE, 25.9/5.92MM	16	16	16	16				
12	1	165000-69340	SEAL RING SET, VALVE	1	1	1	1				
13	1	165000-69330	SPRING, VALVE	16	16	16	16				
14	1	165000-69310	PLATE, SPRING UPPER	16	16	16	16				
15	1	165000-69300	COLLET, VALVE D=6	32	32	32	32				

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Fig.8.CYL.HEAD ATTACHED/GLOW PLUG

Y00R6381 8.CYL.HEAD ATTACHED/GLOW PLUG

(A)=4BY150 (D)=4BY180Z
(B)=4BY180 (E)=
(C)=4BY150Z (F)=

	REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY (A)	(B)	(C)	(D)	(E)	(F)	I	R
	1	1	165000-68040	GASKET SET, HEAD	1	1	1	1				
	1A	1	165000-68080	GASKET, HEAD 1-LOCH	1	1	1	1				
	1B	1	165000-68090	GASKET, HEAD 2-LOCH	1	1	1	1				
	1C	1	165000-68100	GASKET, HEAD 3-LOCH	1	1	1	1				
	2	1	165000-68290	BOLT, M12X1.5X147	1	1	1	1				
	3	1	165000-67090	SCREW, M8X35	7	7	7	7				
	4	1	165000-68200	LOOP	1	1	1	1				
I	4-1	1	165000-67990	LOOP	1	1	1	1				R
			(B=0/)	(C=05/10/) (D=046)		(E=1390 04)						
	5	1	165000-68000	SCREW, COUNTERSUNK	2	2	2	2				
	6	1	165000-70660	SENSOR, TEMPERATURE	1	1	1	1				
	7	1	165000-70000	PLUG, GLOW	4	4	4	4				

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Fig.9.CYLINDER HEAD COVER

Y00R6381 9.CYLINDER HEAD COVER

(A)=4BY150
(B)=4BY180
(C)=4BY150Z
(D)=4BY180Z
(E)=
(F)=

	REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY (A)	(B)	(C)	(D)	(E)	(F)	I	R
	1	1	120650-11510	COVER, CYLINDER HEAD	1	1	1	1				
	2	1	165000-68190	GASKET, PROFILE	1	1	1	1				
	3	1	165000-67820	ELEMENT, OUTER	1	1	1	1				
	4	1	165000-67850	ELEMENT, INNER	1	1	1	1				
	5	1	165000-68140	SHIELD, HEAT PROTECT	1	1	1	1				
	6	1	165000-67970	COVER	1	1	1	1				
	7	1	165000-68030	HOLDER, COVER	1	1	1	1				
	9	1	165000-67360	SCREW, M6X12	1	1	1	1				
	11	1	165000-68160	GASKET, PROFILE	1	1	1	1				
	12	1	165000-68170	GASKET, PROFILE	1	1	1	1				
	13	1	165000-67980	COVER	1	1	1	1				
I	13-1	1	165000-71020	COVER	1	1	1	1				R
			(B=0/)	(C=05/10/) (D=046)		(E=0443 04)						
	14	1	165000-68020	GASKET, PROFILE	1	1	1	1				
	15	1	165000-70700	GENERATOR, PULSE	1	1	1	1				
	16	1	165000-70730	O-RING, 17X2.8	1	1	1	1				
	17	1	165000-68120	BOLT,PLASTIC M5X19.5	1	1	1	1				
	19	2	120650-11410	SPACER, ELEMENT	1	1	1	1				
	20	2	120650-11420	PIN, REFERENCE	1	1	1	1				
	23	1	120640-01500	SCREW, M6X45	4	4	4	4				

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Fig.10.INTAKE MANIFOLD

10.INTAKE MANIFOLD

(A)=4BY150
(B)=4BY180
(C)=4BY150Z
(D)=4BY180Z
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY (A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	165000-69880	MANIFOLD ASSY, INT.	1	1	1	1				
2	1	165000-69860	GASKET, PROFILE	4	4	4	4				
3	1	165000-69810	GASKET, PROFILE	4	4	4	4				
4	1	165000-69800	SEALING, RUBBER	1	1	1	1				
5	1	165000-69830	FASTEN, ELEMENT 6X42	8	8	8	8				
6	1	165000-69820	MOUNTING, RUBBER	5	5	5	5				
7	1	165000-69840	RING, BACKUP	5	5	5	5				
8	1	165000-67890	NUT, FLANGE M7	5	5	5	5				
9	1	165000-69850	BOX, VACUMM	1	1	1	1				

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Fig.11.TURBOCHARGER

11.TURBOCHARGER

(A)=4BY150
(B)=4BY180
(C)=4BY150Z
(D)=4BY180Z
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY (A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	120650-18040	TURBINE, TD04HL13T-5		1		1				
2	1	120650-18030	TURBINE, TD04HL13T-5	1		1					
3	1	120650-12510	FILTER, AIR	1	1	1	1				
10	1	120650-13050	MANIFOLD, EXHAUST	1	1	1	1				
12	1	120650-13330	PLUG, SCREW	1	1	1	1				
13	1	120660-18200	GASKET, TURBO IN	1	1	1	1				
14	1	120660-18110	SCREW, M8X25	4	4	4	4				
15	1	120640-00040	GASKET, EXH.MANIFOLD	2	2	2	2				
16	1	120650-13070	NUT, M8	8	8	8	8				
17	1	120650-11430	HOSE, BLOWBY	1	1	1	1				
18	1	120640-01030	CLAMP, HOSE 40X13	2	2	2	2				
21	1	120650-18300	PROTECTOR, HEAT	1	1	1	1				
22	1	120650-18310	PROTECTOR, HEAT MANI	1	1	1	1				
23	1	120650-13800	PROTECTOR, HEAT HOSE	1	1	1	1				

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Fig.12.CRANKSHAFT WITH BEARING SHELLS

Remarks
1)YELLOW
2)GREEN
3)WHITE

12.CRANKSHAFT WITH BEARING SHELLS

(A)=4BY150
(B)=4BY180
(C)=4BY150Z
(D)=4BY180Z
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY (A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	165000-68830	CRANKSHAFT ASSY	1	1	1	1				
1A	1	165000-68840	CRANKSHAFT ASSY	1	1	1	1				
2AG	1	165000-68650	GUIDE, SHILL 60.00MM	1	1	1	1				2
2AW	1	165000-68660	GUIDE, SHILL 60.00MM	1	1	1	1				3
2AY	1	165000-68640	GUIDE, SHILL 60.00MM	1	1	1	1				1
2BG	1	165000-68680	GUIDE, 59.75MM +0.25	1	1	1	1				2
2BW	1	165000-68690	GUIDE, 59.75MM +0.25	1	1	1	1				3
2BY	1	165000-68670	GUIDE, 59.75MM +0.25	1	1	1	1				1
2CG	1	165000-68710	GUIDE, 59.50MM +0.50	1	1	1	1				2
2CW	1	165000-68720	GUIDE, 59.50MM +0.50	1	1	1	1				3
2CY	1	165000-68700	GUIDE, 59.50MM +0.50	1	1	1	1				1
3AG	1	165000-68740	GUIDE, SHILL 60.00MM	1	1	1	1				2
3AW	1	165000-68750	GUIDE, SHILL 60.00MM	1	1	1	1				3
3AY	1	165000-68730	GUIDE, SHILL 60.00MM	1	1	1	1				1
3BG	1	165000-68770	GUIDE, 59.75MM +0.25	1	1	1	1				2
3BW	1	165000-68780	GUIDE, 59.75MM +0.25	1	1	1	1				3
3BY	1	165000-68760	GUIDE, 59.75MM +0.25	1	1	1	1				1
3CG	1	165000-68800	GUIDE, 59.50MM +0.50	1	1	1	1				2
3CW	1	165000-68810	GUIDE, 59.50MM +0.50	1	1	1	1				3
3CY	1	165000-68790	GUIDE, 59.50MM +0.50	1	1	1	1				1
4AG	1	165000-68560	SHELL, BEARING 60.00	4	4	4	4				2
4AW	1	165000-68570	SHELL, BEARING 60.00	4	4	4	4				3
4AY	1	165000-68550	SHELL, BEARING 60.00	4	4	4	4				1
4BG	1	165000-68590	SHELL, 59.75MM +0.25	4	4	4	4				2
4BW	1	165000-68600	SHELL, 59.75MM +0.25	4	4	4	4				3
4BY	1	165000-68580	SHELL, 59.75MM +0.25	4	4	4	4				1
4CG	1	165000-68620	SHELL, 59.50MM +0.50	4	4	4	4				2
4CW	1	165000-68630	SHELL, 59.50MM +0.50	4	4	4	4				3
4CY	1	165000-68610	SHELL, 59.50MM +0.50	4	4	4	4				1
5AG	1	165000-68470	SHELL, BEARING 60.00	4	4	4	4				2
5AW	1	165000-68480	SHELL, BEARING 60.00	4	4	4	4				3
5AY	1	165000-68460	SHELL, BEARING 60.00	4	4	4	4				1
5BG	1	165000-68500	SHELL, 59.75MM +0.25	4	4	4	4				2
5BW	1	165000-68510	SHELL, 59.75MM +0.25	4	4	4	4				3
5BY	1	165000-68490	SHELL, 59.75MM +0.25	4	4	4	4				1
5CG	1	165000-68530	SHELL, 59.50MM +0.50	4	4	4	4				2
5CW	1	165000-68540	SHELL, 59.50MM +0.50	4	4	4	4				3
5CY	1	165000-68520	SHELL, 59.50MM +0.50	4	4	4	4				1

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Fig.13.FLYWHEEL & CYL.MOUNTING PARTS

13.FLYWHEEL & CYL.MOUNTING PARTS

(A)=4BY150 (D)=4BY180Z
(B)=4BY180 (E)=
(C)=4BY150Z (F)=

	REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY (A)	(B)	(C)	(D)	(E)	(F)	I	R
	2	1	120650-21400	FLYWHHEL ASSY	1	1	1	1				
	6	1	120640-00240	SCREW, FLYWHEEL	8	8	8	8				
	7	1	120652-21601	COUPLER, DAMPER DS22	1	1						N
		(A=E*****)	(B=E*****)									
	8	1	120640-01600	BOLT, M8X22 CAP HEX	6	6						N
		(A=E*****)	(B=E*****)									
I	9	1	120640-02230	WASHER	15	15						N
		(A=E*****)	(B=E*****)									
	10	1	120650-21470	ADAPTER, FLYWHEEL			1	1				
	12	1	120640-01930	BOLT, M8X80-8.8			8	8				
	13	1	120650-21500	COUPLER, STERN-DRIVE			1	1				
	14	1	120640-01560	SCREW, M10X25			6	6				
	15	1	120640-02210	WASHER			6	6				
	16	1	165000-68440	CAP, W/SEAL	1	1	1	1				
	17	1	165000-66930	BOLT, HEX M6 25	4	4	4	4				
	18	1	165000-67120	BOLT, HEX M8 28	2	2	2	2				
I	19	1	165000-93310	WHEEL,GENERATOR (D=4.06)	1			1				W
	21	1	165000-70680	SENSOR, CRANKSHAFT	1	1	1	1				
	22	1	165000-70690	TERMINAL, PLUG	1	1	1	1				
	23	1	165000-67360	SCREW, M6X12	1	1	1	1				

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Fig.14.PISTON & CONNECTING ROD

Remarks
(1)COLOR BLUE S MARK (ONLY IN CONJUNCTION WITH P/N 165000-69000)
(2)COLOR RED S MARK (ONLY IN CONJUNCTION WITH P/N 165000-69010)
(3)COLOR BLUE S MARK (ONLY IN CONJUNCTION WITH P/N 165000-69020)
(4)COLOR RED S MARK (ONLY IN CONJUNCTION WITH P/N 165000-69030)
(5)COLOR BLUE S MARK (ONLY IN CONJUNCTION WITH P/N 165000-69040)
(6)COLOR RED S MARK (ONLY IN CONJUNCTION WITH P/N 165000-69050)
(7)COLOR RED (ONLY IN CONJUNCTION WITH P/N 165000-68950)
(8)COLOR BLUE (ONLY IN CONJUNCTION WITH P/N 165000-68940)
(9)COLOR RED (ONLY IN CONJUNCTION WITH P/N 165000-68970)
(A)COLOR BLUE (ONLY IN CONJUNCTION WITH P/N 165000-68960)
(B)COLOR RED (ONLY IN CONJUNCTION WITH P/N 165000-68990)
(C)COLOR BLUE (ONLY IN CONJUNCTION WITH P/N 165000-68980)

14.PISTON & CONNECTING ROD

(A)=4BY150
(B)=4BY180
(C)=4BY150Z
(D)=4BY180Z
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY (A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	165000-68920	ROD, RMFD CONNECTING	1	1	1	1				
2	2	165000-68930	BOLT, CONNECTING ROD	8	8	8	8				
3A	1	165000-68950	SHELL, BEARING 45.00	4	4	4	4				1
3B	1	165000-68940	SHELL, BEARING 45.00	4	4	4	4				2
3C	1	165000-68970	SHELL, 44.75MM +0.25	4	4	4	4				3
3D	1	165000-68960	SHELL, 44.75MM +0.25	4	4	4	4				4
3E	1	165000-68990	SHELL, 44.50MM +0.50	4	4	4	4				5
3F	1	165000-68980	SHELL, 44.50MM +0.50	4	4	4	4				6
4A	1	165000-69000	SHELL, BEARING 45.00	4	4	4	4				7
4B	1	165000-69010	SHELL, BEARING 45.00	4	4	4	4				8
4C	1	165000-69020	SHELL, 44.75MM +0.25	4	4	4	4				9
4D	1	165000-69030	SHELL, 44.75MM +0.25	4	4	4	4				A
4E	1	165000-69040	SHELL, 44.50MM +0.50	4	4	4	4				B
4F	1	165000-69050	SHELL, 44.50MM +0.50	4	4	4	4				C
5	1	165000-69100	PISTON, MAHLE	4	4	4	4				
6	2	165000-69070	RING, LOCK	8	8	8	8				
7	2	165000-69080	RING SET, PISTON	4	4	4	4				
7A	1	165000-69090	RING SET, PISTON .25	4	4	4	4				

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Fig.15.TIMING CHAIN LOWER P/DAMPER

15.TIMING CHAIN LOWER P/DAMPER

(A)=4BY150 (D)=4BY180Z
(B)=4BY180 (E)=
(C)=4BY150Z (F)=

	REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY (A)	(B)	(C)	(D)	(E)	(F)	I	R
	1	1	165000-70260	CHAIN, TIMING	1	1	1	1				
	2	1	165000-68820	SPROCKET, CRANKSHAFT	1	1	1	1				
	3	1	165000-67430	KEY, WOODRUFF 5X6.5	1	1	1	1				
	4	1	165000-70230	RAIL, GUIDE	1	1	1	1				
	5	1	165000-67730	BOLT, BEARING	3	3	3	3				
	6	1	165000-70220	TENSIONER, CHAIN	1	1	1	1				
	7	1	165000-70250	TENSIONER, CHAIN	1	1	1	1				
	8	1	165000-67110	BOLT, HEX M6 30	3	3	3	3				
	9	1	165000-68910	DAMPER, VIBRATION	1	1	1	1				
I	9-1	1	165000-93600	VIBRATION DAMPER	1	1	1	1				R
			(B=7/)	(C=06/07/) (D=016)		(E=1037 01)						
	10	1	165000-68890	BOLT, M18X1.5X85.5	1	1	1	1				
	11	1	165000-68880	WASHER, FLAT	1	1	1	1				

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Fig.16.TIMING GEAR TIMING CHAIN TOP

16.TIMING GEAR TIMING CHAIN TOP

(A)=4BY150
(B)=4BY180
(C)=4BY150Z
(D)=4BY180Z
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY (A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	165000-69210	CHAIN, TIMING	1	1	1	1				
2	1	165000-70240	SPROCKET, PUMP	1	1	1	1				
3	1	165000-70210	NUT, HEXAGON M14X1.5	1	1	1	1				
4	1	165000-69240	SPROCKET, CAMSHAFT	1	1	1	1				
5	1	165000-69270	SCREW, ISA M7X18	3	3	3	3				
6	1	165000-69200	RAIL, GUIDE	1	1	1	1				
7	1	165000-67760	BOLT, BEARING	1	1	1	1				
8	1	165000-69190	TENSIONER, CHAIN	1	1	1	1				
9	1	165000-69180	BOLT, BEARING	2	2	2	2				
10	1	165000-70250	TENSIONER, CHAIN	1	1	1	1				
11	1	165000-67110	BOLT, HEX M6 30	3	3	3	3				
12	1	165000-69220	CAMSHAFT, INLET	1	1	1	1				
13	1	165000-69230	CAMSHAFT, OUTLET	1	1	1	1				

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Fig.17.V-BELT

17.V-BELT

(A)=4BY150
(B)=4BY180
(C)=4BY150Z
(D)=4BY180Z
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY (A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	120640-00010	V-BELT, 6PK1230	1	1						
2	1	120640-00020	V-BELT, 6PK 2080			1	1				

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Fig.18.LUB.OIL PUMP

18.LUB.OIL PUMP

(A)=4BY150
(B)=4BY180
(C)=4BY150Z
(D)=4BY180Z
(E)=
(F)=

	REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY (A)	(B)	(C)	(D)	(E)	(F)	I	R
	1	1	165000-67800	REINFORCEMENT, BOWL	1	1	1	1				
	2	1	165000-67280	BOLT, HEX M8 28	10	10	10	10				
	3	1	165000-69420	PUMP, OIL	1	1	1	1				
	4	2	165000-69360	SCREW, COLLAR M6X18	2	2	2	2				
	5	2	165000-69370	SPROCKET, OIL PUMP	1	1	1	1				
	6	2	165000-69390	BOLT, TORX M8X35	1	1	1	1				
	8	1	165000-69400	CHAIN	1	1	1	1				
	10	1	165000-69380	GASKET	1	1	1	1				
	11	1	165000-68320	SCREW, COLLAR M6X20	3	3	3	3				
	12	1	120650-32600	STRAINER ASSY, OIL	1	1	1	1				
I	12-1	1	165000-93290	TUBE,INTAKE (D=4.06)	1			1				R
	14	1	165000-67670	GASKET SET, BLOCK	1	1	1	1				

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Fig.19.LUB.OIL FILTER

19.LUB.OIL FILTER

(A)=4BY150
(B)=4BY180
(C)=4BY150Z
(D)=4BY180Z
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY (A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	165000-69490	FILTER ASSY, OIL	1	1	1	1				
2	2	165000-69520	ELEMENT, OIL FILTER	1	1	1	1				
3	2	165000-69510	COVER, OIL FILTER	1	1	1	1				
4	3	165000-69440	O-RING, 18.64 3.53MM	1	1	1	1				
5	3	165000-69460	O-RING, 7.0 2.5MM	1	1	1	1				
7	2	165000-70120	SWITCH, OIL PRESSURE	1	1	1	1				
8	2	165000-69500	GASKET, PROFILE	1	1	1	1				
9	1	165000-66950	BOLT, HEX M8X45	3	3	3	3				
10	1	165000-69530	EXCHANGER, HEAT	1	1	1	1				
11	2	165000-69540	GASKET, PROFILE	1	1	1	1				
12	2	165000-69470	SCREW	3	3	3	3				

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Fig.20.ROTARY PUMP(OPTION)

Y00R6381 20.ROTARY PUMP(OPTION)

(A)=4BY150
(B)=4BY180
(C)=4BY150Z
(D)=4BY180Z
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY (A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	124413-39100	PUMP, OIL SUMP	1	1	1	1				
2	1	43720-001220	PIPE	1	1	1	1				

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Fig.21.PIPE, OIL

21.PIPE, OIL

(A)=4BY150
(B)=4BY180
(C)=4BY150Z
(D)=4BY180Z
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY (A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	120650-39610	PIPE, OIL TURBO IN	1	1	1	1				
4	1	120640-01210	RING, SEALING	7	7	7	7				
5	1	120650-85410	CLAMP, PIPE	1	1	1	1				
6	1	120640-01510	SCREW, M8X16	1	1	1	1				
7	1	120640-02230	WASHER	1	1	1	1				
8	1	120650-39350	PIPE, OIL SENSOR	1	1	1	1				
9	1	120650-39290	SCREW, HOLLOW	1	1	1	1				
10	1	120640-01410	SCREW, HOLLOW	1	1	1	1				
12	1	120650-39620	PIPE, OIL TURBO OUT	1	1	1	1				
14	1	120650-39630	GASKET, OIL RETURN	1	1	1	1				
15	1	120640-01470	SCREW, M6X16	2	2	2	2				
16	1	120650-39250	HOSE, TURBO RETURN	1	1	1	1				
17	1	120640-01020	CLAMP, HOSE 27X9	2	2	2	2				
18	1	120640-00260	SUPPORT, HOSE 2512	1	1	1	1				
19	1	120640-00250	SUPPORT, HOSE 1412	2	2	2	2				

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Fig.22.AIR COOLER

22.AIR COOLER

(A)=4BY150
(B)=4BY180
(C)=4BY150Z
(D)=4BY180Z
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY (A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	120650-18400	COOLER ASSY, AIR	1	1	1	1				
2	1	120640-01990	BOLT, M10X60-8.8	4	4	4	4				
3	1	120650-18810	AIR DUCT, CAC OUT	1	1	1	1				
4	1	120650-17110	SUPPORT, COVER SUC	1	1	1	1				
5	1	120640-01590	SCREW, M6X25	4	4	4	4				
6	1	120640-02220	WASHER	2	2	2	2				
7	1	120640-01540	SCREW, M8X35	1	1	1	1				
8	1	120640-02230	WASHER	2	2	2	2				
9	1	120650-18910	HOSE, CAC OUT	1	1	1	1				
10	1	120640-01050	CLAMP, HOSE 80X13	2	2	2	2				
11	1	120640-00130	SENSOR, AIR TEMP	1	1	1	1				
12	1	120650-18820	DUCT, AIR	1	1	1	1				
14	1	120640-01540	SCREW, M8X35	2	2	2	2				
15	1	120650-18850	GASKET, AIR CAC IN	1	1	1	1				
16	1	120650-18900	HOSE, COMPRESSOR OUT	1	1	1	1				
17	1	120650-49720	CLAMP, HOSE	2	2	2	2				
18	1	120640-00140	SENSOR, BOOST P	1	1	1	1				

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Fig.23.AIR COOLER(INNER PARTS)

23.AIR COOLER(INNER PARTS)

(A)=4BY150
(B)=4BY180
(C)=4BY150Z
(D)=4BY180Z
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY (A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	120650-18400	COOLER ASSY, AIR	1	1	1	1				
2	2	120650-18410	HOUSING, CAC 4BY	1	1	1	1				
3	2	120650-18420	TUBE STACK, 4BY	1	1	1	1				
4	2	120650-18430	COVER, CAC REAR	1	1	1	1				
5	2	120650-18440	COVER, CAC FRONT	1	1	1	1				
6	2	120650-18450	SPACER, CAC	1	1	1	1				
7	2	120650-18470	O-RING, CAC	4	4	4	4				
8	2	120650-18480	BOLT, M8X40	8	8	8	8				
9	2	120650-18490	ZINC	1	1	1	1				
10	2	120650-18500	GASKET, CUPPER	1	1	1	1				
11	2	120650-18510	PLUG, DRAIN	1	1	1	1				
12	2	120650-18520	GASKET, CUPPER	1	1	1	1				

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Fig.24.WATER PUMP

Y00R6381 24.WATER PUMP

(A)=4BY150 (B)=4BY180 (C)=4BY150Z (D)=4BY180Z (E)= (F)=

	REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY (A)	(B)	(C)	(D)	(E)	(F)	I	R
	1	1	165000-69700	PUMP, RMFD WATER	1	1	1	1				
	2	1	165000-69720	GASKET, STEEL	1	1	1	1				
	3	1	165000-69690	SCREW, TORX M7X38	4	4	4	4				
	4	1	165000-69680	THERMOSTAT ASSY	1	1	1	1				
	5	2	165000-69650	GASKET, PROFILE	1	1	1	1				
	6	2	165000-69660	O-RING	1	1	1	1				
	7	2	165000-69670	RING, BACKUP	1	1	1	1				
	8	1	165000-69640	SCREW, TORX M6X20	4	4	4	4				
	9	1	165000-67950	CONNECTOR	1	1	1	1				
	10	1	165000-67960	GASKET, PROFILE	1	1	1	1				
	11	1	165000-66930	BOLT, HEX M6 25	3	3	3	3				
	12	1	120650-49390	COUPLING, QUICK	2	2	2	2				
	13	1	165000-69790	PIPE, RETURN	1	1	1	1				
I	13-1	1	165000-93330	PIPE,RETURN	1	1	1	1				R
			(B=7/)	(C=06/07/) (D=066)		(E=1665 06)						
	14	2	165000-69780	SCREW, VENT	1	1	1	1				
	15	1	165000-69360	SCREW, COLLAR M6X18	2	2	2	2				
	16	1	120650-49380	COUPLING, QUICK	1	1	1	1				
	17	1	165000-69770	HOSE, WATER	1	1	1	1				
	18	1	120640-01020	CLAMP, HOSE 27X9	1	1	1	1				
	19	1	120640-09130	TIE,STRAP 550	1	1	1	1				
	20	1	120650-49850	HOSE ASSY, HEATER SU	1	1	1	1				N
		(A=E*****)	(B=E*****)	(C=E*****) (D=E*****)								
	21	1	120650-49860	HOSE ASSY, HEATER RE	1	1	1	1				N
		(A=E*****)	(B=E*****)	(C=E*****) (D=E*****)								

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Fig.25.COOLING SEA WATER PUMP

25.COOLING SEA WATER PUMP

(A)=4BY150
(B)=4BY180
(C)=4BY150Z
(D)=4BY180Z
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY (A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	120650-42300	IMPELLER, PUMP	1	1	1	1				
2	2	120650-42310	IMPELLER	1	1	1	1				
3	1	120650-42360	V-BELT, 4PK 964	1	1	1	1				
4	1	120640-01550	SCREW, M8X80	3	3	3	3				
5	1	120650-17200	BOLT, FIXING 1	1	1	1	1				
6	1	120640-02230	WASHER	1	1	1	1				
7	1	120650-17210	BOLT, FIXING 2	1	1	1	1				
8	1	120650-17220	BOLT, FIXING 3	1	1	1	1				
9	1	120650-17170	COVER ASSY, BELT	1	1	1	1				
10	1	120640-00280	GROMMET	3	3	3	3				
11	1	120640-00270	COLLAR,BRACKET	3	3	3	3				
12	1	120640-00330	NUT, FLANGE M8	3	3	3	3				

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Fig.26.HEAT EXCHANGER

26.HEAT EXCHANGER

(A)=4BY150 (D)=4BY180Z
(B)=4BY180 (E)=
(C)=4BY150Z (F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY (A)	(B)	(C)	(D)	(E)	(F)	I	R
2	1	120650-44000	HEAT EXCHANGER ASSY	1	1	1	1			N	
	(A=E*****)	(B=E*****)	(C=E*****) (D=E*****)								
3	1	120650-44180	SPACER, ELEMENT REAR	1	1	1	1				
5	1	120640-01910	BOLT, M8X65-8.8	2	2	2	2				
6	1	120650-44210	SCREW, ELEMENT FRONT	1	1	1	1				
8	1	120640-01890	BOLT, M8X50-8.8	2	2	2	2				
9	1	120650-44170	BRACKET, REAR TOP	1	1	1	1				
10	1	120650-13320	SCREW, M8X20	2	2	2	2				
11	1	120640-02230	WASHER	2	2	2	2				
12	1	120640-01960	BOLT, M10X30-8.8	3	3	3	3				
13	1	120650-44220	SLEEVE, PROTECTING	1	1	1	1				
14	1	120650-11440	SPACER, BRACKET REAR	1	1	1	1				
15	1	120640-01460	SCREW, M6X12	1	1	1	1				
16	1	120650-17130	BLAKET	1	1	1	1				
17	1	120640-01580	SCREW, M8X25	2	2	2	2				
19	1	128397-44500	TANK ASSY, RESERVE	1	1	1	1				
20	1	128397-44510	BRACKET, SUB-TANK	1	1	1	1				
21	1	129670-44570	LABEL	1	1	1	1				
22	1	23010-013000	CLAMP 13	2	2	2	2				
23	1	129270-44501	PIPE,OVER FLOW	1	1	1	1				

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Fig.27.HEAT EXCHANGER(INNER PARTS)

27.HEAT EXCHANGER(INNER PARTS)

(A)=4BY150
(B)=4BY180
(C)=4BY150Z
(D)=4BY180Z
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY (A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	120650-44000	HEAT EXCHANGER ASSY	1	1	1	1				
2	2	120650-44010	HOUSING, HEX 4BY	1	1	1	1				
3	2	120650-44020	CORE, HEX 4BY	1	1	1	1				
4	2	120650-44030	COVER, HEX REAR	1	1	1	1				
5	2	120650-44040	COVER, HEX FRONT	1	1	1	1				
6	2	120650-44050	SPACER, HEX	1	1	1	1				
7	2	120650-44070	O-RING, HEX	4	4	4	4				
8	2	120650-18480	BOLT, M8X40	8	8	8	8				
9	2	120650-18490	ZINC	1	1	1	1				
10	2	120650-18500	GASKET, CUPPER	1	1	1	1				
11	2	120650-44080	COCK,DRAIN	1	1	1	1				
12	2	120650-44090	CAP, FILLER	1	1	1	1				

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Fig.28.HOSE, FW PUMP

28.HOSE, FW PUMP

(A)=4BY150
(B)=4BY180
(C)=4BY150Z
(D)=4BY180Z
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY (A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	120650-39270	SENSOR, OIL PRESSURE	1	1	1	1				
2	1	120640-01240	RING, SEALING A14X18	1	1	1	1				
3	1	120650-17120	SUPPORT, COVER EXH	1	1	1	1				
4	1	120640-02080	BOLT, M6X16-8.8	2	2	2	2				
5	1	120640-01530	SCREW, M8X30	3	3	3	3				
6	1	120650-49100	HOSE ASSY, ENGINE IN	1	1	1	1				
10	1	120650-49250	PIPE ASSY, HEAD OUT	1	1	1	1				
14	1	120650-49260	O-RING, 36X3.53	2	2	2	2				
16	1	120650-49710	CLAMP, HOSE	2	2	2	2				
17	1	120650-49200	HOSE ASSY, HEAD OUT	1	1	1	1				
21	1	120650-49650	CLAMP, PIPE	1	1	1	1				
22	1	120640-01510	SCREW, M8X16	1	1	1	1				
23	1	120640-02230	WASHER	1	1	1	1				
24	1	120650-49400	HOSE, OIL COOLER	1	1	1	1				
28	1	120640-01020	CLAMP, HOSE 27X9	1	1	1	1				
29	1	120650-49330	HOSE, VENTILATION	1	1	1	1				
30	1	120650-49350	NIPPLE, HOSE	1	1	1	1				
31	1	120640-01010	CLAMP, HOSE 16X7,5	2	2	2	2				
32	1	120640-01410	SCREW, HOLLOW	1	1	1	1				
33	1	120640-01210	RING, SEALING	2	2	2	2				
34	1	120650-44190	BRACKET, FRONT TOP	1	1	1	1				
35	1	120640-01520	SCREW, M8X20	5	5	5	5				
36	1	120650-11650	COVER ASSY, PUMP	1	1	1	1				
37	2	120650-11600	COVER, VACUUM PUMP	1	1	1	1				
38	2	120650-11610	O-RING,61X3.5	1	1	1	1				

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Fig.29.MIXING ELBOW

29.MIXING ELBOW

(A)=4BY150
(B)=4BY180
(C)=4BY150Z
(D)=4BY180Z
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY (A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	120650-13400	ELBOW ASSY, MIXING	1	1	1	1				
6	3	120650-13420	PLUG, M18X1.5	1	1	1	1				
7	3	120640-01270	RING, SEALING A18X22	1	1	1	1				
8	3	120650-13490	PLUG	1	1	1	1				
9	3	120640-01260	RING, SEALING A17X21	1	1	1	1				
10	1	120650-13450	V-CLAMP, TURBINE OUT	1	1	1	1				
11	1	120650-13850	HOSE, MIXING IN 25	1	1						
12	1	120650-13510	HOSE, MIXING IN			1	1				
13	1	120650-49720	CLAMP, HOSE	2	2	2	2				
14	1	120652-13400	ELBOW ASSY, MIXING	1	1	1	1				
24	1	120650-13750	HOSE, MIXING IN 10 R	1	1	1	1				
25	1	120650-13760	HOSE, MIXING IN 40 R	1	1	1	1				
27	1	120650-44100	HOSE, MIXING DRAIN	1	1	1	1				
28	1	120640-01010	CLAMP, HOSE 16X7,5	2	2	2	2				
29	1	120650-13520	JOINT, RUBBER	1	1	1	1				
30	1	119172-48010	HOSE CLIPS	4	4	4	4				

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Fig.30.BILGE PUMP(OPTION)

Y00R6381 30.BILGE PUMP(OPTION)

(A)=4BY150 (D)=4BY180Z
(B)=4BY180 (E)=
(C)=4BY150Z (F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY (A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	127675-46012	PUMP,BILGE (12V	1	1	1	1				

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Fig.31.STEERING OIL COOLER

31.STEERING OIL COOLER

(A)=4BY150
(B)=4BY180
(C)=4BY150Z
(D)=4BY180Z
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY (A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	120650-49560	HOSE, CAC-HEAT EXCH.	1	1	1	1				
2	1	120650-49710	CLAMP, HOSE	6	6	6	6				
3	1	120650-49520	HOSE, PUMP JOINT	1	1	1	1				
4	1	120650-49540	PIPE, WATER PUMP OUT	1	1	1	1				
5	1	120650-49610	PLUG, DRAIN	1	1	1	1				
6	1	120650-49550	HOSE, COOLER JOINT	2	2	2	2				
7	1	120650-49580	PIPE, CAC IN	1	1	1	1				
8	1	120650-49590	HOSE, CAC IN	1	1	1	1				
9	1	120650-49720	CLAMP, HOSE	4	4	4	4				
11	1	120650-33300	BRACKET, OIL COOLER	1	1	1	1				
12	1	120640-01520	SCREW, M8X20	4	4	4	4				
13	1	120650-57010	COOLER,ATF GEAR OIL	1	1	1	1				
14	1	120640-01050	CLAMP, HOSE 80X13	2	2	2	2				
15	1	D20650-49410	HOSE ASSY, DRAVE OUT			1	1				
16	1	D20650-49420	HOSE ASSY, PUMP IN	1	1	1	1				

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Fig.32.STEERING PUMP/PIPE

32.STEERING PUMP/PIPE

(A)=4BY150
(B)=4BY180
(C)=4BY150Z
(D)=4BY180Z
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY (A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	120640-00150	PUMP ASSY,STEERING			1	1				
2	1	120640-01930	BOLT, M8X80-8.8			1	1				
3	1	120640-01570	BOLT, M6X80-8.8			1	1				
4	1	120640-02220	WASHER			3	3				
5	1	120640-01870	BOLT, M8X40-8.8			1	1				
6	1	120650-57410	ADAPTER,ATF PUMP			1	1				
7	1	120640-00300	RING, SEALING A30X36			1	1				
8	1	120650-85330	PIPE, STEERING OIL			1	1				
9	1	120640-01420	SCREW, HOLLOW			1	1				
10	1	120640-01240	RING, SEALING A14X18			2	2				
11	1	120650-85450	PROTECTOR, HEAT POWE			2	2				
12	1	120650-85360	PIPE, STEERING OIL			1	1				
13	1	120650-85320	PIPE, STEERING OIL			1	1				
14	1	120640-01260	RING, SEALING A17X21			4	4				
15	1	120650-85370	SCREW, HOLLOW			2	2				
16	1	120650-57440	HOSE, ATF PUMP INLET			1	1				
17	1	120640-01020	CLAMP, HOSE 27X9			2	2				
18	1	120650-85410	CLAMP, PIPE			1	1				
19	1	120650-85390	CLAMP, PIPE			1	1				
20	1	120640-01520	SCREW, M8X20			2	2				
21	1	120640-02230	WASHER			2	2				
22	1	120650-85430	CLAMP, PIPE			1	1				
23	1	120640-01830	BOLT, M6X35-8.8			1	1				
25	1	120640-00200	NUT,M6			1	1				

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Fig.33.FUEL OIL FILTER/PIPE

33.FUEL OIL FILTER/PIPE

(A)=4BY150
(B)=4BY180
(C)=4BY150Z
(D)=4BY180Z
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY (A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	165000-70620	PIPE, FUEL RETURN	1	1	1	1				
2	1	165000-67580	CLAMP, HOSE L12-15	1	1	1	1				
3	1	165000-67340	BOLT, HOLLOW	1	1	1	1				
4	1	165000-67460	RING, GASKET 12X18	2	2	2	2				
5	1	165000-67590	CLAMP, HOSE L15-19	2	2	2	2				
6	1	165000-70740	CLAMP, HOSE	1	1	1	1				
7	1	120650-55310	HOSE, FILTER-PUMP	1	1	1	1				
8	1	120650-55320	HOSE, PUMP-FILTER	2	2	2	2				
9	1	120650-55340	PIPE, FUEL FILTER IN	1	1	1	1				
10	1	120640-01010	CLAMP, HOSE 16X7,5	12	12	2	2				
11	1	120650-55370	HOSE, FUEL LEACKAGE	1	1	1	1				
12	1	120650-55330	PIPE, FUEL RETURN	1	1	1	1				
13	1	120640-01020	CLAMP, HOSE 27X9	2	2	2	2				
14	1	120650-85390	CLAMP, PIPE	2	2	2	2				
15	1	120640-01510	SCREW, M8X16	4	4	4	4				
16	1	120640-02230	WASHER	4	4	4	4				
17	1	120650-55350	HOSE, FILTER OUT	1	1	1	1				
18	1	120650-55380	FITTING, REDUCING	1	1	1	1				
19	1	120650-55360	HOSE, FUEL	1	1	1	1				
20	1	120650-39190	CLAMP, PIPE	1	1	1	1				
21	1	120640-01470	SCREW, M6X16	1	1	1	1				
22	1	120640-02220	WASHER	1	1	1	1				
23	1	120650-55390	HOSE, TEMP.SENSOR	1	1	1	1				
24	1	120640-00120	SENSOR ASSY, TEMP.	1	1	1	1				
25	1	120650-55040	FILTER, FUEL OIL	1	1	1	1				
26	1	120650-55210	CLAMP, PIPE	2	2	2	2				

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Fig.34.PUMP, FUEL LOW

34.PUMP, FUEL LOW

(A)=4BY150
(B)=4BY180
(C)=4BY150Z
(D)=4BY180Z
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY (A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	120650-51500	PUMP ASSY, FUEL LOW	1	1	1	1				
2	1	120650-51630	CLAMP, DN61	2	2	2	2				
3	1	120640-01450	SCREW, M6X10	4	4	4	4				
4	1	120640-02220	WASHER	4	4	4	4				

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Fig.35.HIGH-PRESSURE PUMP/INJECTOR

35.HIGH-PRESSURE PUMP/INJECTOR

(A)=4BY150
(B)=4BY180
(C)=4BY150Z
(D)=4BY180Z
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY (A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	165000-70380	ACCUMULATOR,PRESSURE	1	1	1	1				
2	2	165000-70480	VALVE, REGULATING	1	1	1	1				
3	2	165000-70390	SENSOR, PRESSURE	1	1	1	1				
4	2	165000-70580	CONNECTOR	1	1	1	1				
5	2	165000-70160	RING, GASKET	2	2	2	2				
6	2	165000-70400	BOLT, HOLLOW	1	1	1	1				
7	1	165000-67020	SCREW, HEAD M8X25	3	3	3	3				
8	1	165000-70560	INJECTOR, RMFD	4	4	4	4				
9	2	165000-70290	CLAMP	4	4	4	4				
10	2	165000-70430	O-RING, 22 2	4	4	4	4				
11	2	165000-70270	RING, GASKET	4	4	4	4				
12	1	165000-70420	FLANGE	4	4	4	4				
13	1	165000-70280	NUT, FLANGE M6	8	8	8	8				
14	1	165000-70450	HOSE ASSY, PRESSURE	1	1	1	1				
15	1	165000-70300	MOUNTING, RUBBER	1	1	1	1				
16	1	165000-70460	HOSE ASSY, PRESSURE	2	2	2	2				
17	1	165000-70470	HOSE ASSY, PRESSURE	2	2	2	2				
18	1	165000-70410	CLAMP	2	2	2	2				
19	1	165000-70570	SCREW, HEAD M5X12	2	2	2	2				
20	1	165000-70440	PIPE, OVERFLOW OIL	1	1	1	1				
21	1	165000-70190	PUMP, HIGH PRESSURE	1	1	1	1				
22	1	165000-70180	MEASURING, UNIT	1	1	1	1				
23	1	165000-70170	SCREW	3	3	3	3				
24	1	165000-67490	NUT, HEX AM8	3	3	3	3				
25	1	165000-70150	GASKET, STEEL	1	1	1	1				

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Fig.36.FUEL FILTER

36.FUEL FILTER

(A)=4BY150
(B)=4BY180
(C)=4BY150Z
(D)=4BY180Z
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY (A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	120650-55010	FILTER ASSY, FUEL	1	1	1	1				
2	2	120650-55020	ELEMENT, FUEL	1	1	1	1				
3	1	120650-75880	HARNESS, WIRE	1	1	1	1				
4	1	120640-01970	BOLT, M10X35-10.9	2	2	2	2				
5	1	120650-55400	CONNECTOR, SCREW	1	1	1	1				
6	1	120650-55430	CONNECTOR, M16X1.5	1	1	1	1				
7	1	120650-55440	CONNECTOR, HOSE	1	1	1	1				

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Y00R6381

Fig.37.STARTER

Y00R6381 37.STARTER

(A)=4BY150
(B)=4BY180
(C)=4BY150Z
(D)=4BY180Z
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY (A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	165000-70090	MOTOR, STARTER 2.0KW	1	1	1	1				
2	1	165000-70080	SWITCH, SOLENOID	1	1	1	1				

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Fig.38.ALTERNATOR

Y00R6381 38.ALTERNATOR

(A)=4BY150
(B)=4BY180
(C)=4BY150Z
(D)=4BY180Z
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY (A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	165000-70040	ALTERNATOR, COMPACT	1	1	1	1				
1A	1	165000-70060	ALTERNATOR ASSY,150A	1	1	1	1				
2	1	165000-67180	BOLT,HEX M10X70	1	1	1	1				
3	1	165000-67300	BOLT, HEX M10X125	1	1	1	1				

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Fig.39.WIRE HARNESS(ECU)

Y00R6381 39.WIRE HARNESS(ECU)

(A)=4BY150
(B)=4BY180
(C)=4BY150Z
(D)=4BY180Z
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY (A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	120650-78050	HARNESS, WIRE	1	1	1	1				
	(A=E*****)	(B=E*****)	(C=E*****) (D=E*****)								

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Fig.40.WIRE HARNESS

40.WIRE HARNESS

(A)=4BY150
(B)=4BY180
(C)=4BY150Z
(D)=4BY180Z
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY (A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	120650-78000	HARNESS, WIRE 4CYL	1	1	1	1				
3	1	120650-78610	BOLT, 50X16S	2	2	2	2				
4	1	120640-01510	SCREW, M8X16	2	2	2	2				
5	1	120640-00340	CLIP,CORRUGATED 17	1	1	1	1				
6	1	120640-00350	CLIP,CORRUGATED 10	1	1	1	1				
7	1	120640-00360	CLIP,CORRUGATED 4.5	2	2	2	2				
8	1	120640-09050	TIE STRAP	8	8	8	8				
9	1	120650-78210	CABLE, CHARGE	1	1	1	1				
10	1	120640-00330	NUT, FLANGE M8	2	2	2	2				
11	1	120640-00320	NUT, FLANGE M6	1	1	1	1				
12	1	120650-78600	CLAMP, PIPE	1	1	1	1				
13	1	120640-01560	SCREW, M10X25	1	1	1	1				

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Fig.41.AIR HEATER(OPTION)

Y00R6381 41.AIR HEATER(OPTION)

(A)=4BY150
(B)=4BY180
(C)=4BY150Z
(D)=4BY180Z
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY (A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	120650-75870	BRACKET, HEATER CONT	1	1	1	1				
2	1	120650-78240	CONTROLLER, HEATER 4	1	1	1	1				
3	1	120640-02080	BOLT, M6X16-8.8	2	2	2	2				
4	1	120640-00200	NUT,M6	2	2	2	2				
5	1	120650-78250	HARNESS, HEATER 4BY	1	1	1	1				
6	1	120650-78260	CABLE, POSITIVE	1	1	1	1				

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Fig.42.ECU

42.ECU

(A)=4BY150
(B)=4BY180
(C)=4BY150Z
(D)=4BY180Z
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY (A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	120650-75290	SHEET, ANGLE	1	1	1	1				
2	1	120640-01470	SCREW, M6X16	6	6	6	6				
3	1	120650-75450	MOUNT, RUBBER	4	4	4	4				
4	1	120640-00200	NUT,M6	8	8	8	8				
5	1	120650-75680	SLEEVE, PROTECTING	2	2	2	2				
7	1	120650-75250	PLATE ASSY, BASE ECU	1	1	1	1				
17	1	120650-75330	BOX, FUSE	2	2	2	2				
18	1	120650-75820	GROMMET, HOLDER	3	3	3	3				
19	1	120640-01440	SCREW, M4X10	3	3	3	3				
20	1	120650-75810	CLIP,WIRE	3	3	3	3				
21	1	120650-75360	NUT,PANEL	3	3	3	3				
22	1	120650-75380	SILICON SEAL	3	3	3	3				
23	1	120650-75320	CLIP, FUSE	5	5	5	5				
24	1	120640-00180	RELAY	2	2	2	2				
25	1	120640-00170	RELAY	1	1	1	1				
26	1	120650-75500	LINK, FUSE	1	1	1	1				
27	1	120650-75510	LINK, FUSE	2	2	2	2				R
	(A=E*****)	(B=E*****)	(C=E*****) (D=E*****)								
28	1	120650-75520	LINK, FUSE	1	1	1	1				
29	1	120650-75530	FUSE	1	1	1	1				
30	1	120650-75540	FUSE	1	1	1	1				W
	(A=E*****)	(B=E*****)	(C=E*****) (D=E*****)								
31	1	120640-09050	TIE STRAP	4	4	4	4				
32	1	120650-75700	COVER ASSY, E-BOX	1	1	1	1				
37	1	120640-01490	SCREW, M6X30	4	4	4	4				
38	1	120640-02220	WASHER	4	4	4	4				
39	1	120650-75410	SUPPORT, E-BOX	1	1	1	1				
41	1	120640-01980	BOLT, M10X45-8.8	2	2	2	2				

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Fig.43.TOP COVER

TOP COVER RISER ELBOW (OPTION)

43.TOP COVER

(A)=4BY150
(B)=4BY180
(C)=4BY150Z
(D)=4BY180Z
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY (A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	120650-17000	COVER ASSY, DESIGN	1	1	1	1				
2	1	120650-17150	CAMLOCK	4	4	4	4				
3	1	120652-17000	TOP COVER CMP, 4 RIS	1	1	1	1				

(A=E*****) (B=E*****) (C=E*****) (D=E*****)

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