Yanmar 3TNV82A-BPMS Engine

Form No.
917382

Revision A
12/08

(PN 195492)

Gehl 1640E and Mustang 2012 Skid-Steer Loaders

ENGINE PARTS MANUAL

Introduction

This manual covers the Yanmar3TNV82A-BPMS engine, used in Gehl1640E - Mustang 2012 skid-steer loaders.

When ordering service parts, specify the correct part number, full description, quantity required, and the engine model number and serial number.

Items shown that do not have a part number are shown for reference purposes only and are not available for purchase. Part numbers may change. Your Gehl or Mustang dealer will have the latest part number.

Gehl® Company and the Mustang® Manufacturing Co., Inc., reserve the right to make changes or improvements in the design or construction of any part of the unit without incurring the obligation to install such changes on any previously delivered units.

IMPORTANT

For maximum engine life, when shutting the engine down, allow the engine to idle, without load, for five minutes. This will allow engine components that operate at high temperatures to cool slightly before the engine itself is shut down.

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TABLE OF CONTENTS

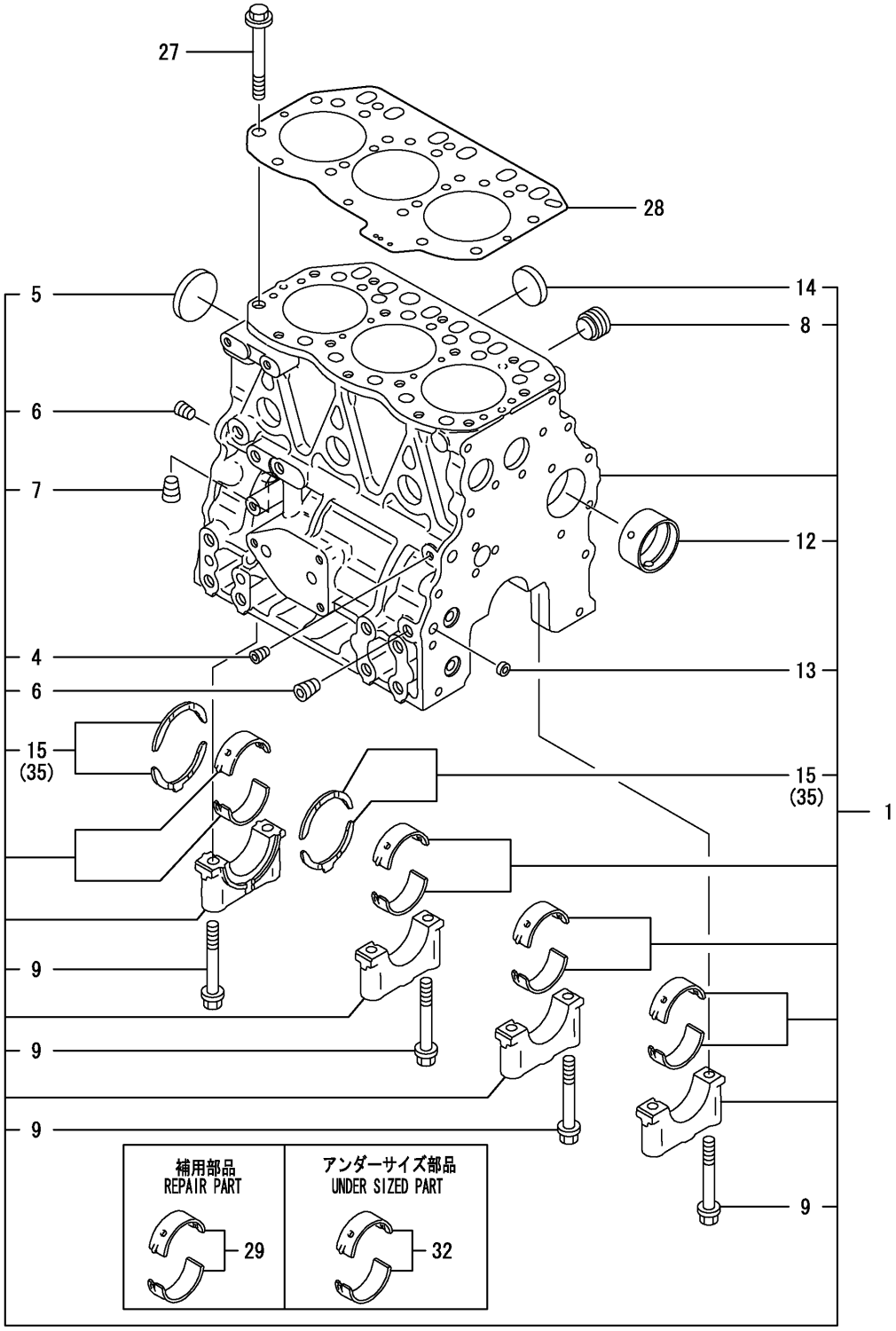
DESCRIPTION **PAGE**

ENGINE SERVICE PARTS

Cylinder Block 1
Gear Housing 3
Flywheel Housing and Oil Sump 5
Cylinder Head and Bonnet 7
Suction Manifold and Air Cleaner 9
Exhaust Manifold and Silencer 11
Camshaft and Driving Gear 13
Crankshaft and Piston. 15
Lubrication Oil System 17
Cooling Water System 19
Fuel Injection Pump 21
Governor. 23
Fuel Injection Valve 25
Fuel Filter 27
Starting Motor 29
Tool and Gasket Set 31
Generator 33

Numerical Index 36

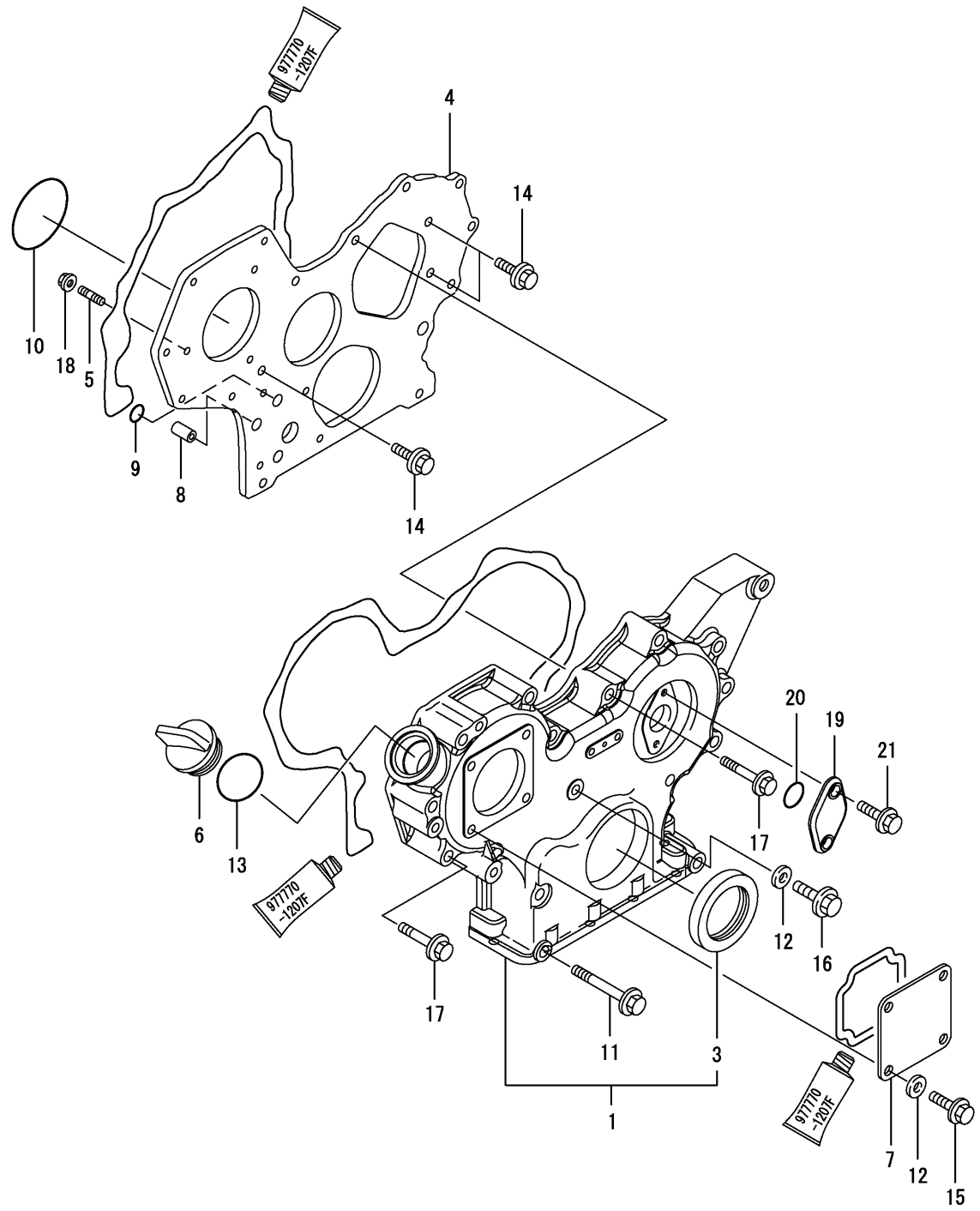
CYLINDER BLOCK



Y00W4660	1, CYLINDER BLOCK				
3TNV82A-BPMS		1, 08/10	2	3	PLUS

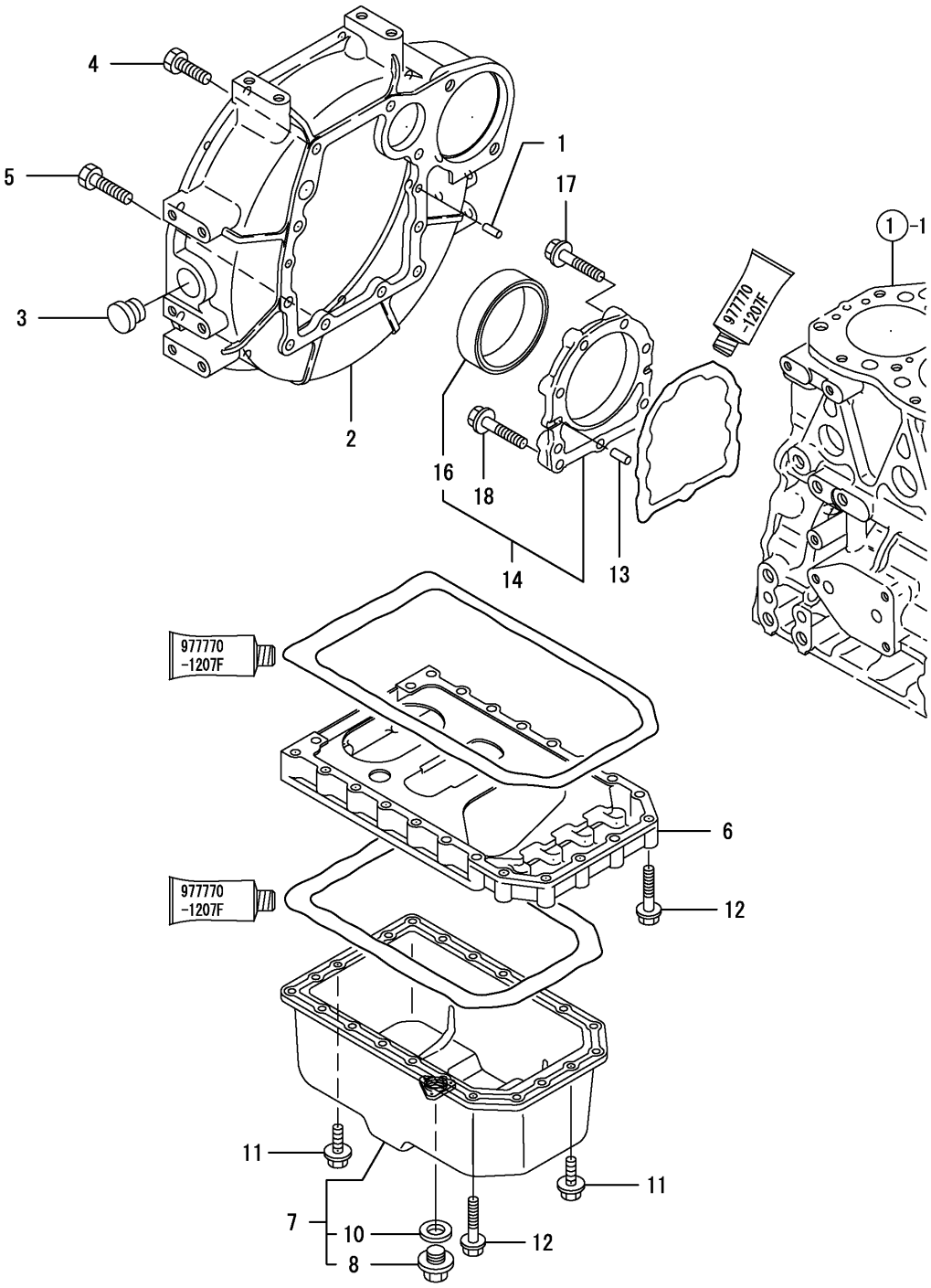
Ref. No.	Part No.	Description	Quantity 3TNV82A
1	198067	BLOCK ASSY, CYLINDER	1
4	425-34723	PLUG PT1/8	1
5	425-36240	PLUG 50	1
6	425-34721	PLUG PT1/4	2
7	425-34721	PLUG PT1/4	1
8	425-34722	PLUG	1
9	425-35149	BOLT, METAL CAP	8
12	197589	BUSH, CAMSHAFT	1
13	425-34725	PLUG 12	2
14	188757	PLUG 30	6
15	203077	BEARING/THRUST	2
27	203078	BOLT/HEAD	14
28	198068	GASKET, HEAD	1
29	198069	BEARING ASSY/MAIN	5
32	198070	BEARING/MAIN METAL US=0.25	5
35	203082	METAL,THRUST.25(4PIE	1

GEAR HOUSING



Y00W4660	2, GEAR HOUSING				
3TNV82A-BPMS		1, 08/10	2	3	PLUS

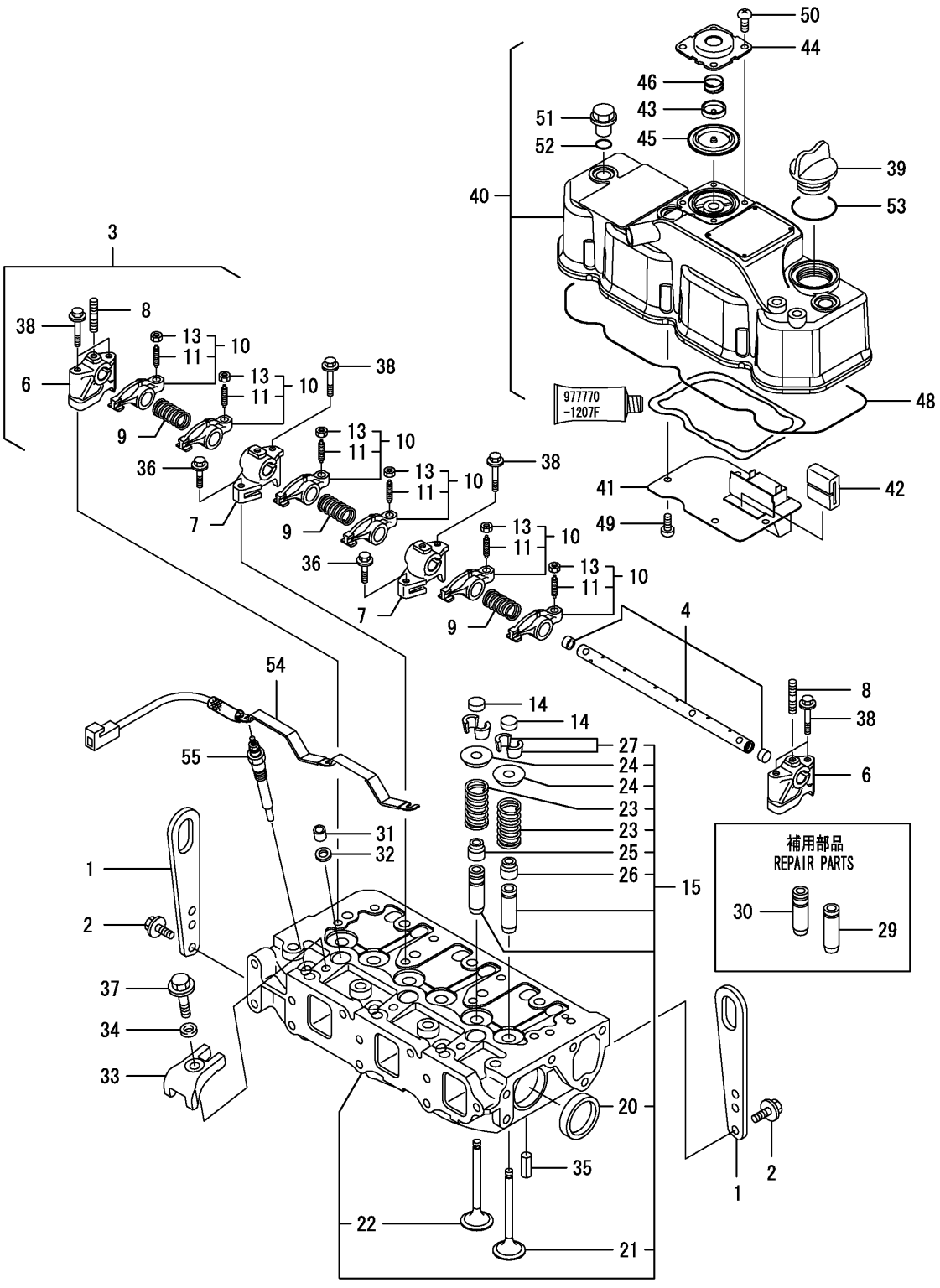
Ref. No.	Part No.	Description	Quantity 3TNV82A
1	197755	GEAR CASE ASSY	1
3	270946	SEAL, OIL	1
4	197771	FLANGE, GEAR CASE	1
5	270948	STUD, M8X25	3
6	425-34740	COVER,FILLER	1
7	425-34741	COVER, HO-P	1
8	425-34743	PIPE, KNOCK L=18	2
9	188452	O-RING P16	2
10	425-34681	O-RING, F.I.PUMP	1
11	188537	BOLT M 8X 85 PLATED	3
12	425-34750	SEAL WASHER 8S	5
13	425-34745	O-RING 1A P-32.0	1
14	425-34733	BOLT M 8X 16 PLATED	3
15	425-34733	BOLT M 8X 16 PLATED	4
16	425-34760	BOLT M 8X 30 PLATED	1
17	425-34748	BOLT M 8X 55 PLATED	12
18	138140	NUT	3
19	270949	COVER, BLIND	1
20	425-34763	O-RING 1A S-24.0	1
21	425-35164	BOLT M 6X 16 PLATED	2



Y00W4660	3. FLYWHEEL HOUSING & OIL SUMP				
3TNV82A-BPMS		1. 08/10	2	3	PLUS

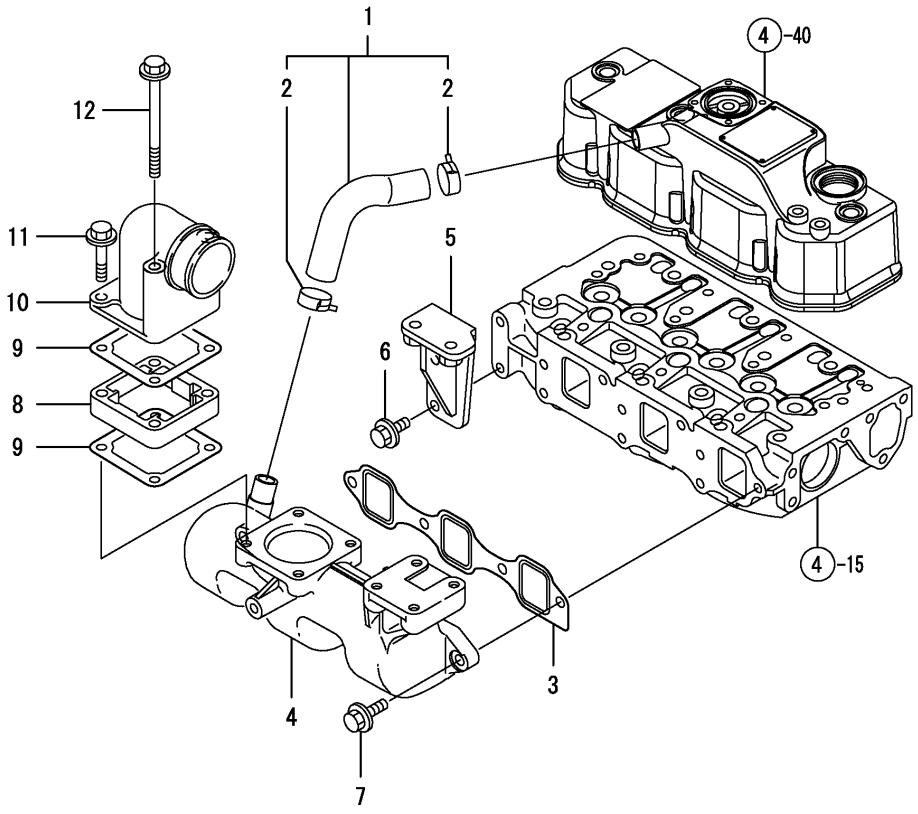
Ref. No.	Part No.	Description	Quantity 3TNV82A
1	188573	PARALLEL PIN 8X16	2
2	425-34754	HOUSING,FLYWHEEL	1
3	425-34756	CAP, FLYWHEEL COVER	1
4	188749	BOLT M10X25	6
5	188750	BOLT M10X30	4
6	198071	SPACER, OIL SUMP	1
7	198072	SUMP ASSY, LUB. OIL	1
8	425-36121	DRAIN PLUG M22	1
10	138113	SEAL WASHER 22S	1
11	425-34733	BOLT M 8X 16 PLATED	6
12	425-34747	BOLT M 8X 45 PLATED	22
13	188573	PARALLEL PIN 8X16	2
14	188574	CASE ASSY, OIL SEAL	1
16	198073	SEAL, OIL	1
17	188640	BOLT M8X30,COLLAR HD	6
18	425-34761	BOLT M 8X 35 PLATED	3

CYLINDER HEAD AND BONNET



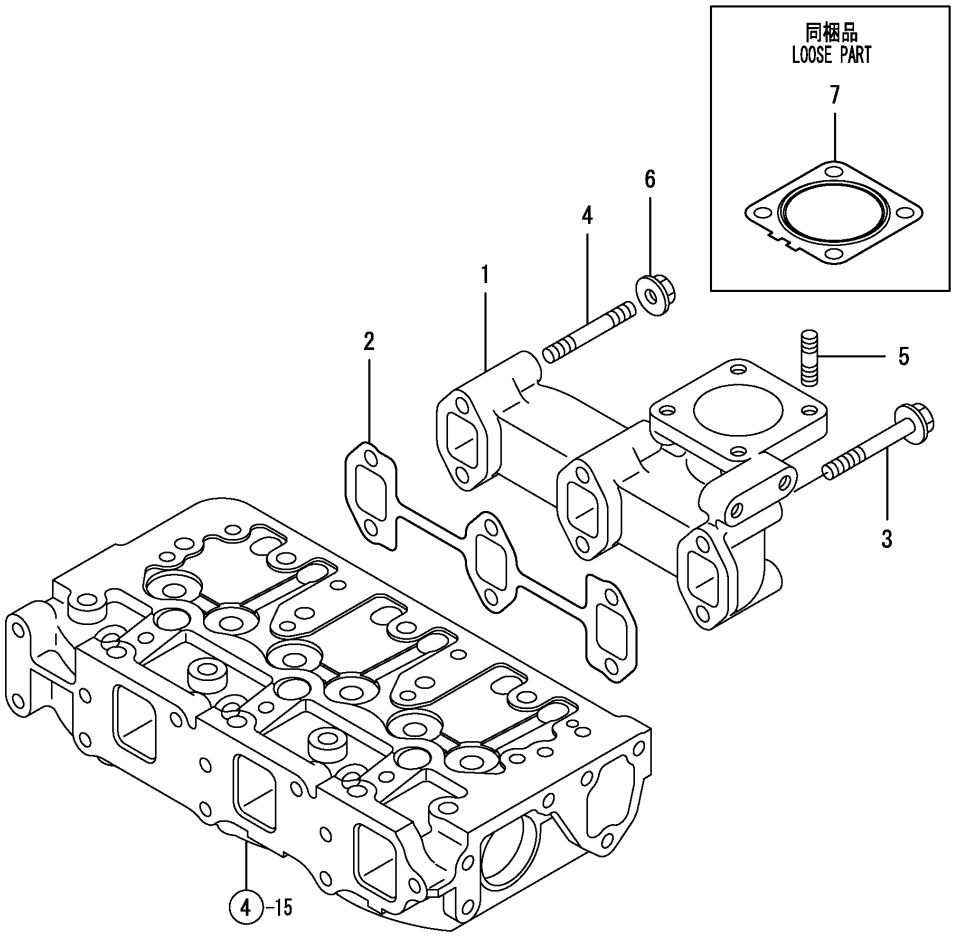
Y00W4660	4, CYLINDER HEAD & BONNET			
3TNV82A-BPMS	1, 08/10	2	3	PLUS

Ref. No.	Part No.	Description	Quantity 3TNV82A
1	188679	LIFTER, ENGINE	2
2	425-34733	BOLT M 8X 16 PLATED	4
3	198074	SHAFT ASSY, ROCKER	1
4	198075	SHAFT/ROCKER ARM	1
6	188470	SUPPORT, ROCKER ARM	2
7	188471	SUPPORT, ROCKER ARM	2
8	188472	STUD	3
9	188597	SPRING	3
10	198076	ARM ASSY, ROCKER	6
11	188596	SCREW, VALVE	6
13	425-34791	NUT M8XP1.0	6
14	425-35192	CAP/VALVE	6
15	198077	HEAD ASSY/CYLINDER	1
20	425-34779	PLUG 40	2
21	198078	VALVE, INTAKE	3
22	198079	VALVE, EXHAUST	3
23	198080	SPRING, VALVE	6
24	198081	RETAINER, SPRING	6
25	197472	SEAL, VALVE STEM	3
26	425-35191	SEAL, VALVE STEM	3
27	425-35189	COTTER	6
29	198082	GUIDE/INTAKE VALVE	3
30	198083	GUIDE/EXHAUST VALVE	3
31	186337	PROTECTOR, NOZZLE	3
32	425-34796	SEAT, NOZZLE	3
33	198084	RETAINER,NOZZLE	3
34	188502	WASHER/INJECTOR	3
35	425-34783	SPRING PIN 6X12	2
36	425-34765	BOLT M 8X 25 PLATED	2
37	425-34747	BOLT M 8X 45 PLATED	3
38	425-34766	BOLT M 8X 50 PLATED	6
39	425-34740	COVER,FILLER	1
40	198085	BONNET ASSY, HEAD	1
41	198086	PLATE, BAFFLE	1
42	425-34769	BAFFLE, BREATHER	1
43	188465	CENTER PLATE	1
44	188466	COVER/DIAPHRAGM	1
45	188467	DIAPHRAGM	1
46	188469	SPRING, DIAPHRAGM	1
48	198087	GASKET/BONNET	1
49	186598	SCREW 5X10,TAPPING	4
50	186598	SCREW 5X10,TAPPING	4
51	425-34775	KNOB	3
52	425-34776	O-RING 1A P 12.0	3
53	425-34745	O-RING 1A P-32.0	1
54	198088	CONNECTOR, GLOW PLUG	1
55	270951	PLUG/GLOW	3



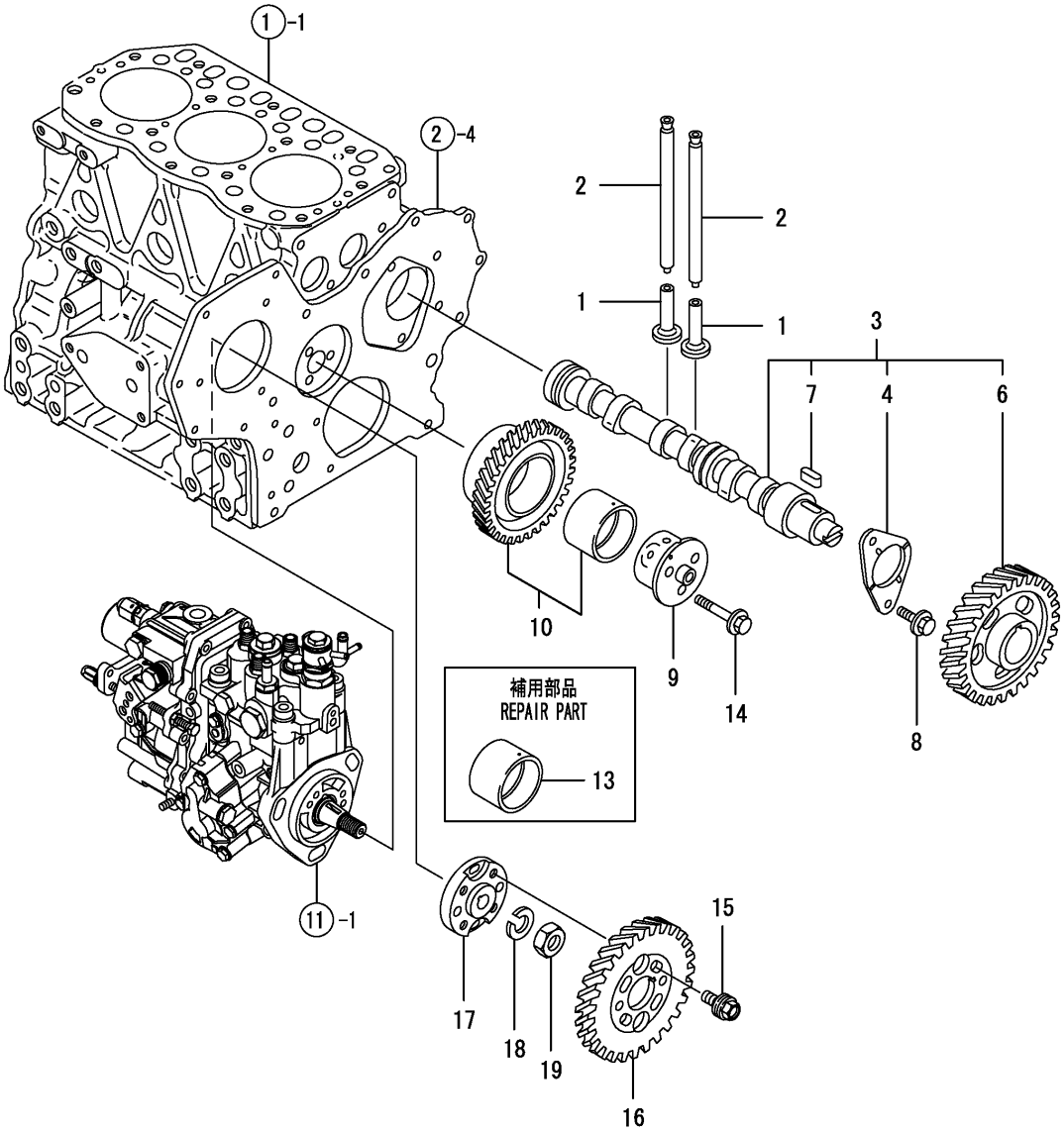
Y00W4660	5, SUCTION MANIFOLD			
3TNV82A-BPMS	1, 08/10	2	3	PLUS

Ref. No.	Part No.	Description	Quantity 3TNV82A
1	198089	PIPE, BREATHER	1
2	188632	CLAMP 24	2
3	198090	GASKET, MANIFOLD	1
4	198091	MANIFOLD, AIR INTAKE	1
5	198092	BRACKET/FILTER	1
6	425-34733	BOLT M8 X 16 PLATED	2
7	425-34765	BOLT M8 X 25 PLATED	4
8	176145	SPACER/SILENCER	1
9	425-34649	GASKET, AIR HEATER	2
10	270954	BEND, AIR HEATER	1
11	188742	BOLT M 8X 40 PLATED	2
12	176144	BOLT M 8X 100 PLATED	2



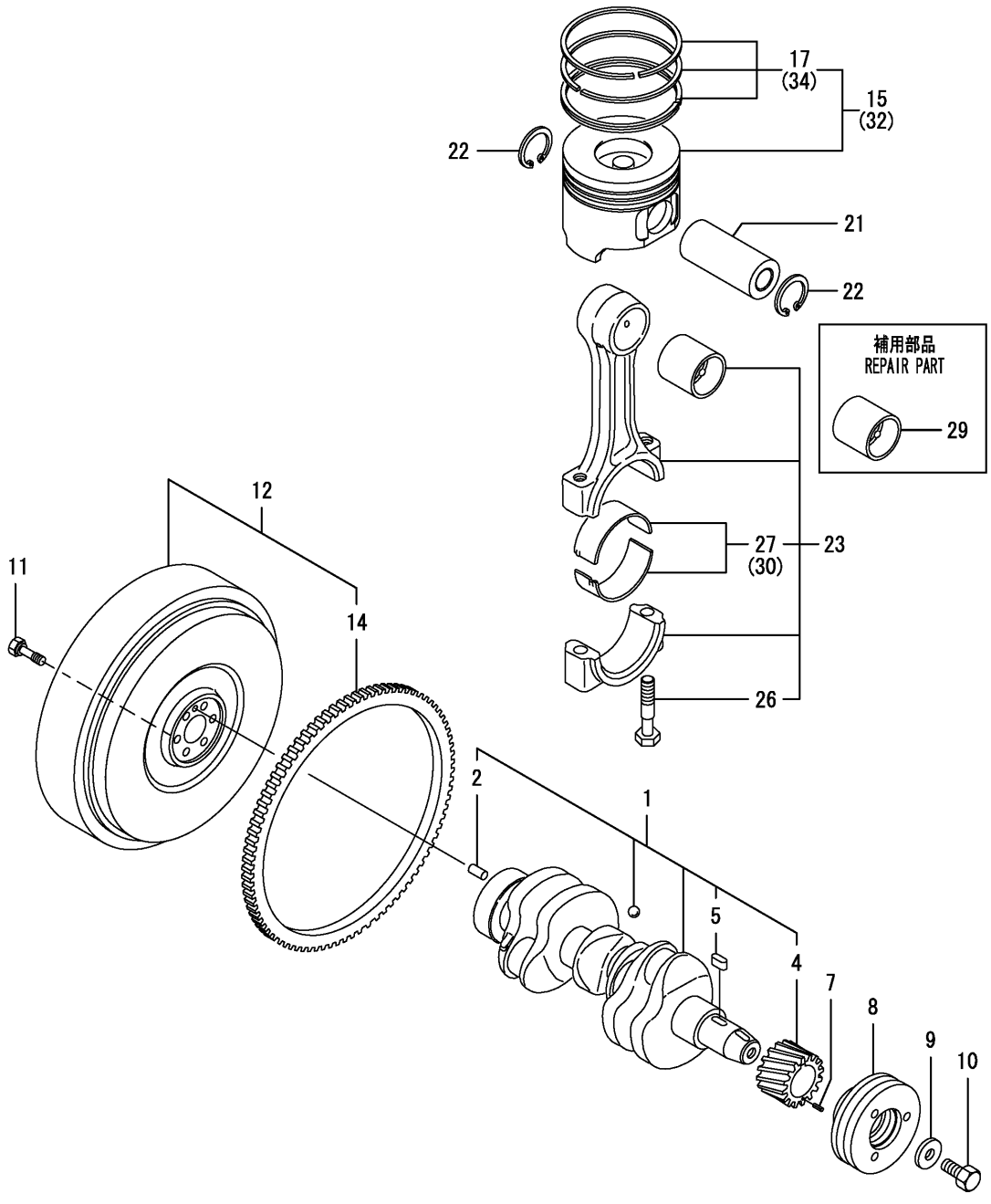
Y00W4660	6. EXHAUST MANIFOLD				
3TNV82A-BPMS		1, 08/10	2	3	PLUS

Ref. No.	Part No.	Description	Quantity 3TNV82A
1	198093	MANIFOLD, EXHAUST	1
2	198094	GASKET/EXHAUST MANIFOLD	1
3	198095	BOLT, M8X60	4
4	198096	STUD BOLT M8 X 60	2
5	425-36249	STUD BOLT M8 X 22	4
6	138140	NUT	2
7	198097	GASKET, SILENCER	2



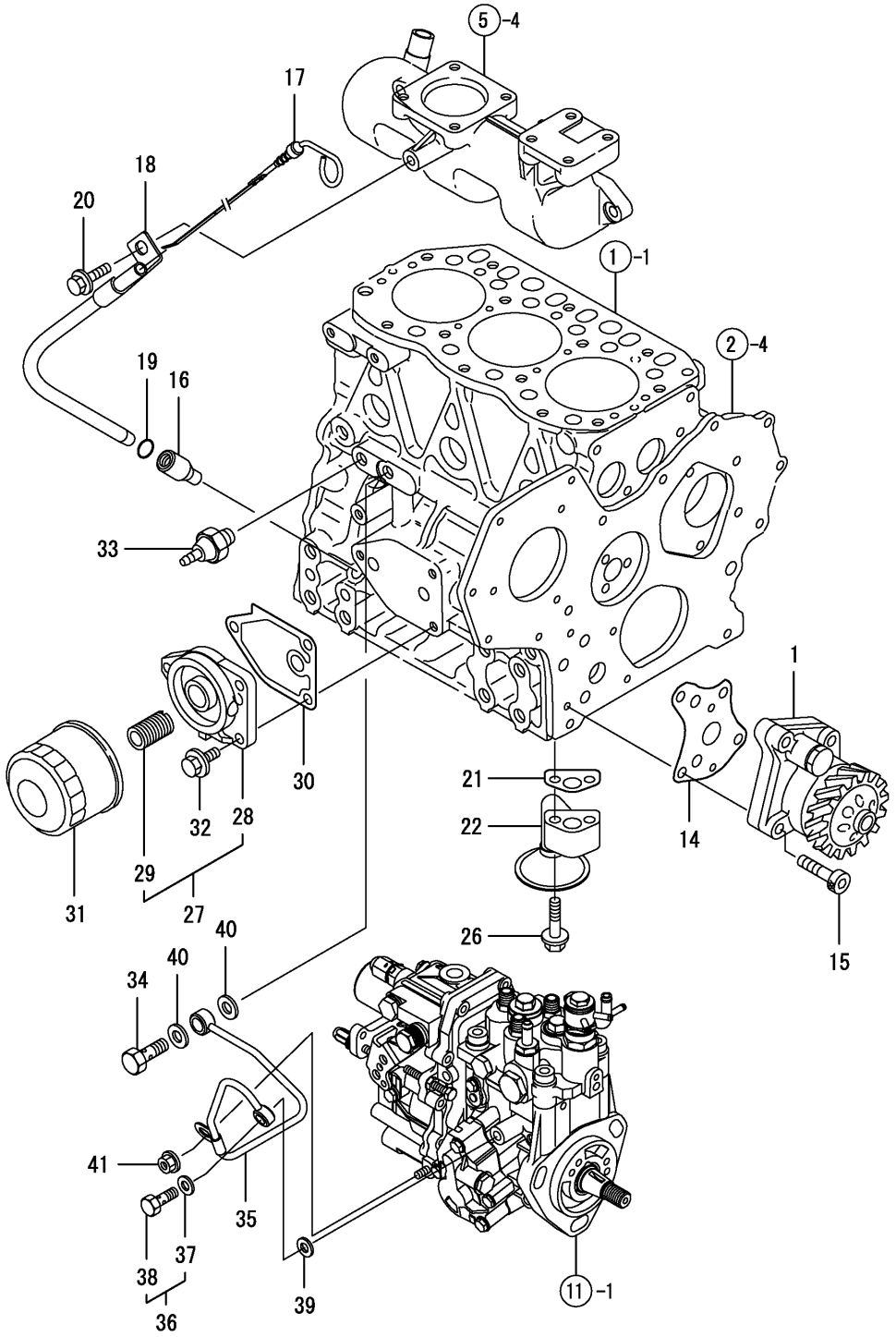
Y00W4660	7. CAMSHAFT & DRIVING GEAR			
3TNV82A-BPMS	1. 08/10	2	3	PLUS

Ref. No.	Part No.	Description	Quantity 3TNV82A
1	425-34808	TAPPET	6
2	198098	ROD, PUSH	6
3	198099	CAMSHAFT ASSY	1
4	425-34656	METAL,THRUST(CAM	1
6	425-34807	GEAR, CAMSHAFT	1
7	425-34810	KEY 7X 14	1
8	188736	BOLT 8X 14 PLATED	2
9	270956	SHAFT, IDLE GEAR	1
10	270957	GEAR ASSY, IDLE	1
13	270958	BUSH, IDLE GEAR	1
14	188742	BOLT M 8X 40 PLATED	3
15	425-36187	BOLT,FI-P	4
16	188479	GEAR, PUMP	1
17	188692	FLANGE	1
18	188712	SPRING WASHER 14	1
19	188755	LOCK NUT M14 PLATED	1



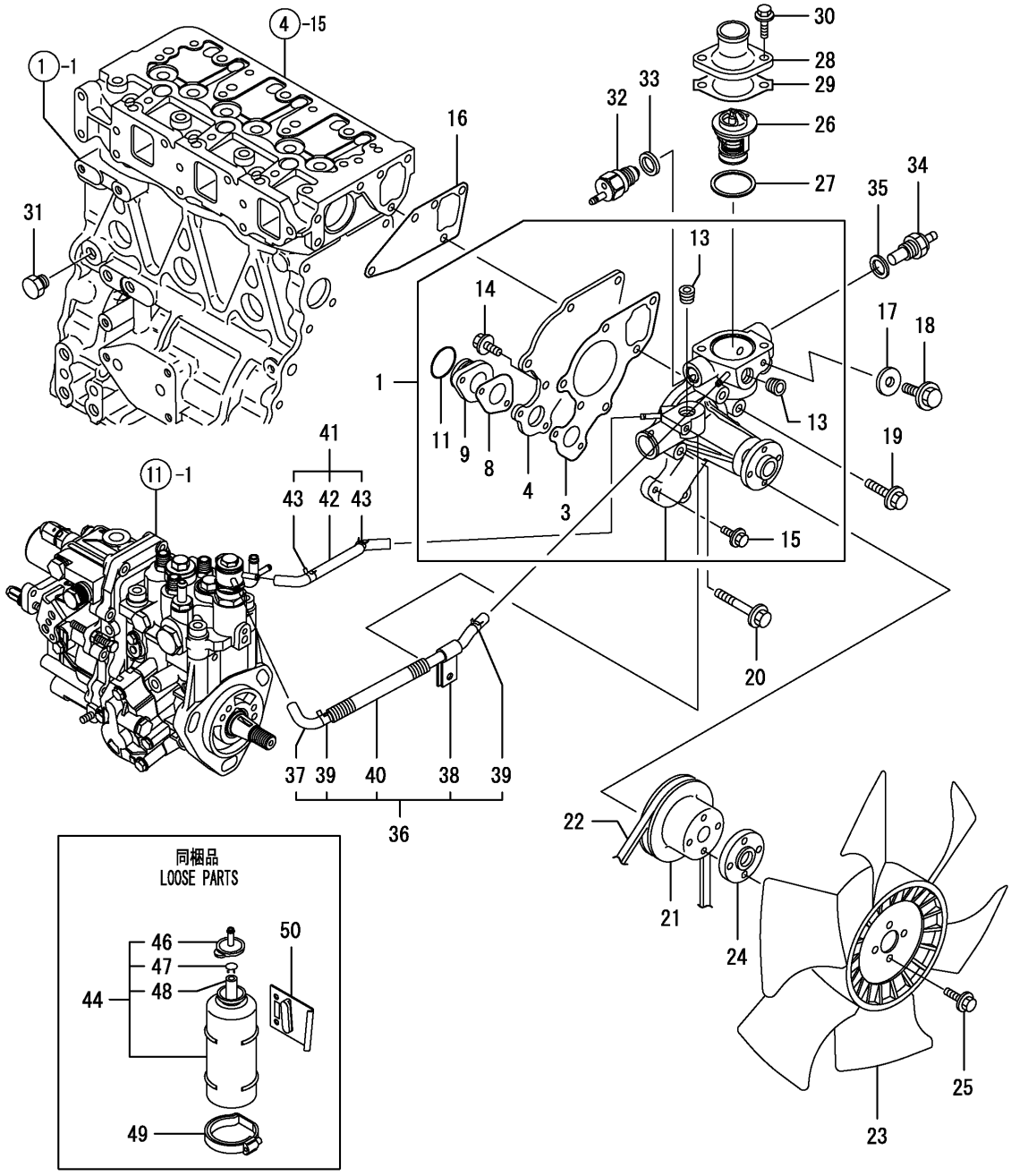
Y00W4660	8, CRANKSHAFT & PISTON			
3TNV82A-BPMS	1, 08/10	2	3	PLUS

Ref. No.	Part No.	Description	Quantity 3TNV82A
1	198130	CRANKSHAFT ASSY	1
2	188573	PARALLEL PIN 8X16	1
4	270960	GEAR, CRANKSHAFT	1
5	425-34810	KEY 7X 14	1
7	138117	SPRING PIN 3X10	1
8	188475	V-PULLEY, CRANKSHAFT	1
9	425-34817	WASHER	1
10	425-34818	BOLT, V-PULLEY	1
11	425-34693	BOLT, FLYWHEEL	6
12	188707	FLYWHEEL ASSY	1
14	425-34694	GEAR, RING	1
15	198100	PISTON W/RING	3
17	198101	RING SET,PISTON	3
21	198102	PIN, PISTON	3
22	198103	CIRCLIP 23	6
23	198104	ROD ASSY, CONNECTING	3
26	198105	BOLT, CONNECTING ROD	6
27	198106	METAL, CRANKPIN	3
29	198107	BUSH, PISTON PIN	3
30	198108	METAL.PIN US=0.25	3
32	198109	PISTON W/RING,0.25OS	3
34	198110	RING SET, 0.25OS	3



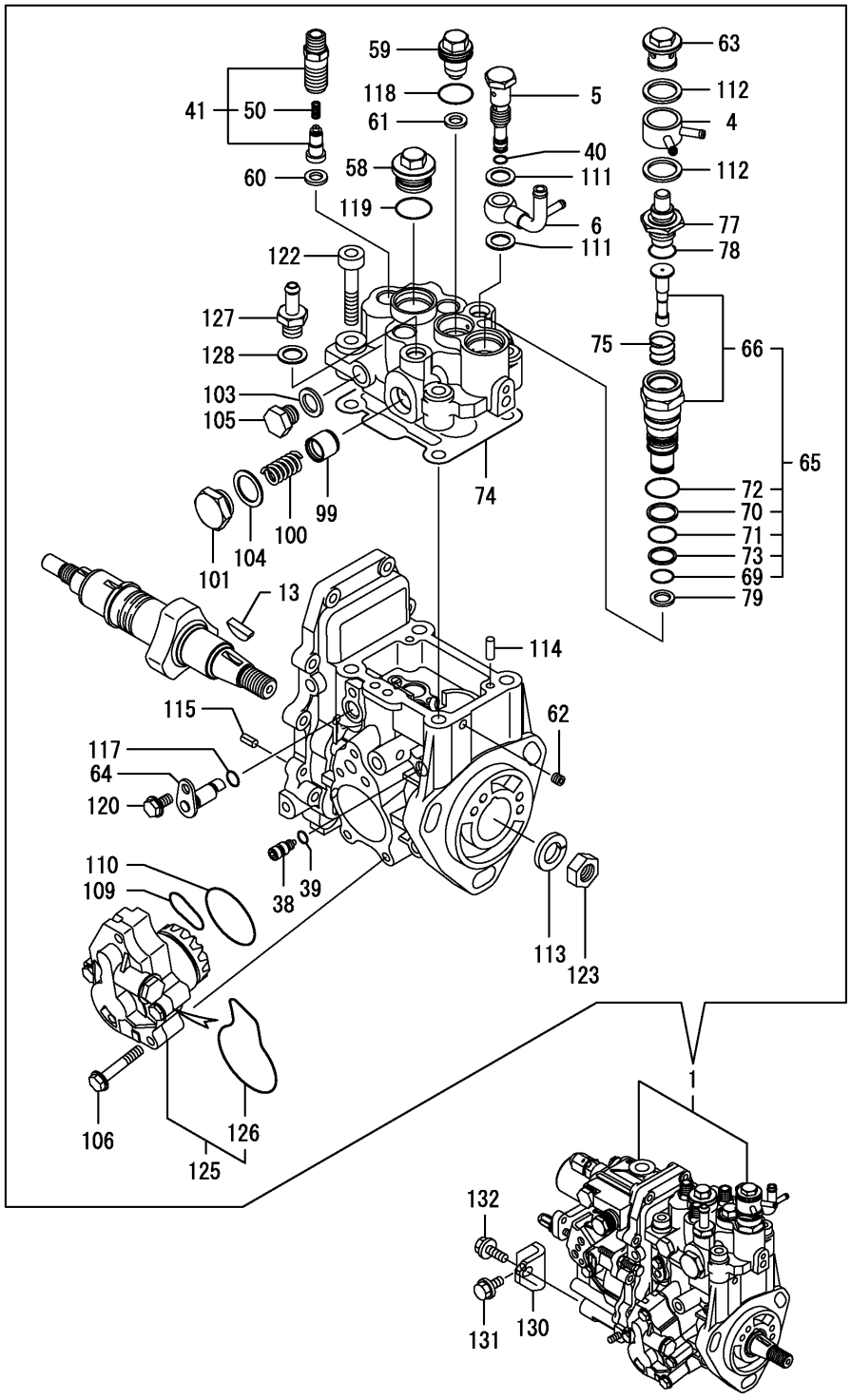
Y00W4660	9. LUB. OIL SYSTEM				
3TNV82A-BPMS		1, 08/10	2	3	PLUS

Ref. No.	Part No.	Description	Quantity 3TNV82A
1	425-36257	PUMP ASSY, LUB. OIL	1
14	425-34701	GASKET, L.O. PUMP	1
15	425-34823	BOLT M 6X 25	4
16	425-34825	GUIDE, DIPSTICK	1
17	198111	DIPSTICK, LUB.OIL	1
18	188485	GUIDE, DIPSTICK	1
19	425-34827	O-RING 1A P-10A	1
20	425-34733	BOLT M 8X 16 PLATED	1
21	425-34828	GASKET, (NON-ASB.)	1
22	198112	PIPE ASSY, OIL INLET	1
26	425-34761	BOLT M 8X 35 PLATED	2
27	198113	BRACKET ASSY, FILTER	1
28	188486	BRACKET, FILTER	1
29	270966	STUD	1
30	425-34831	GASKET, (NON-ASB.)	1
31	195568	FILTER 80X80L	1
32	425-34746	BOLT M8 X 20 PLATED	3
33	425-34684	SWITCH, OIL PRESSURE	1
34	425-34835	BOLT, PIPE JOINT	1
35	188487	PIPE ASSY, LUB. OIL	1
36	186468	BOLT ASSY, JOINT	1
37	425-34750	SEAL WASHER 8S	1
38	186600	JOINT BOLT 3	1
39	425-34750	SEAL WASHER 8S	1
40	425-35958	SEAL WASHER 10S	2
41	425-34781	NUT M6	1



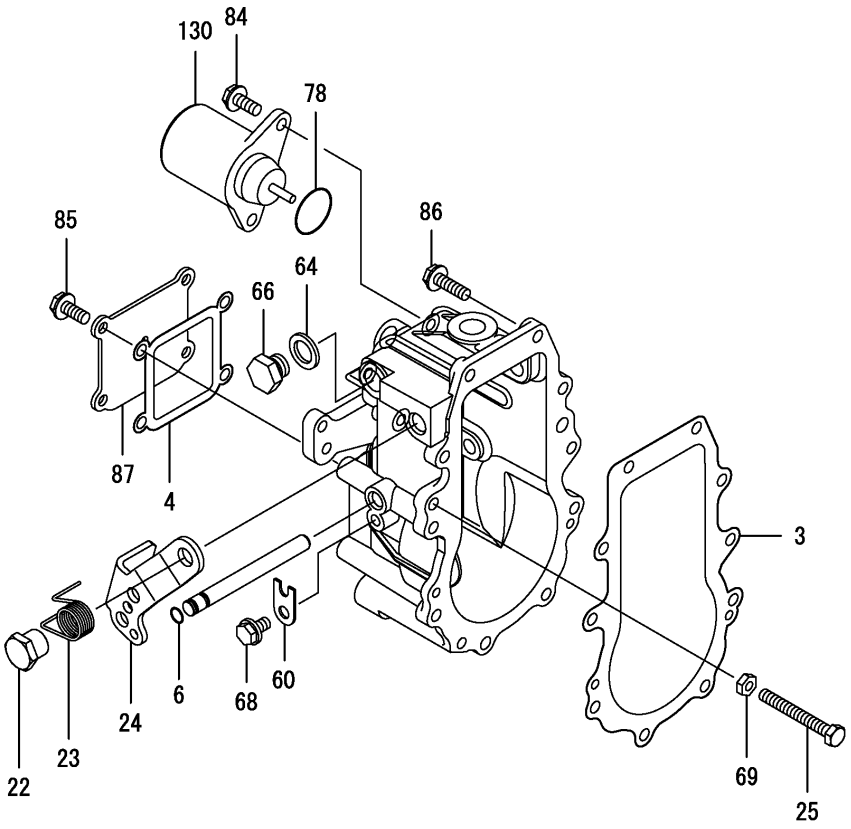
Y00W4660	10, COOLING WATER SYSTEM			
3TNV82A-BPMS	1, 08/10	2	3	PLUS

Ref. No.	Part No.	Description	Quantity 3TNV82A
1	198114	PUMP ASSY, WATER	1
3	198115	GASKET, WATER PUMP	1
4	198116	PLATE	1
8	198117	GASKET, WATER PUMP	1
9	198118	PIPE, PUMP	1
11	198119	O-RING	1
13	425-36260	PLUG PT3/8, SCREW	2
14	425-35962	BOLT M6 X 14 PLATED	2
15	188732	BOLT M6 X 20 PLATED	2
16	198120	GASKET, WATER PUMP	1
17	425-34727	GASKET 8, ROUND	1
18	425-34729	BOLT M 8X 12 PLATED	1
19	425-34761	BOLT M8 X 35 PLATED	1
20	425-34748	BOLT M8 X 55 PLATED	3
21	425-36261	V-PULLEY(D=110)	1
22	198176	V-BELT 37”	1
23	198121	FAN, COOLING	1
24	203171	SPACER	1
25	188732	BOLT M6 X 20 PLATED	4
26	425-34661	THERMOSTAT	1
27	425-34705	GASKET, THERMOSTAT	1
28	425-34843	COVER, THERMOSTAT	1
29	425-34704	GASKET, (NON-ASB.)	1
30	138520	BOLT M 8X 22 PLATED	2
31	270970	PLUG, DRAIN	1
32	425-34683	SWITCH, THERMOSTAT	1
33	160427	GASKET 16	1
34	138076	THERMOMETER	1
35	425-34707	GASKET 10	1
36	198122	PIPE, WATER MP2 A	1
37	198123	PIPE, WATER MP2 A	1
38	186339	CLAMP, PIPE	1
39	186464	CLIP, HOSE	2
40	198124	TUBE, CORRUGATED	1
41	198125	PIPE, WATER MP2 B	1
42	198126	PIPE, WATER MP2 B	1
43	186464	CLIP, HOSE	2
44	425-36233	BOTTLE ASSY, WATER	1
46	188526	CAP	1
47	186461	CLAMP	1
48	188720	PIPE 7 X 230	1
49	425-36235	BAND	1
50	425-36152	BRACKET, SUB TANK	1



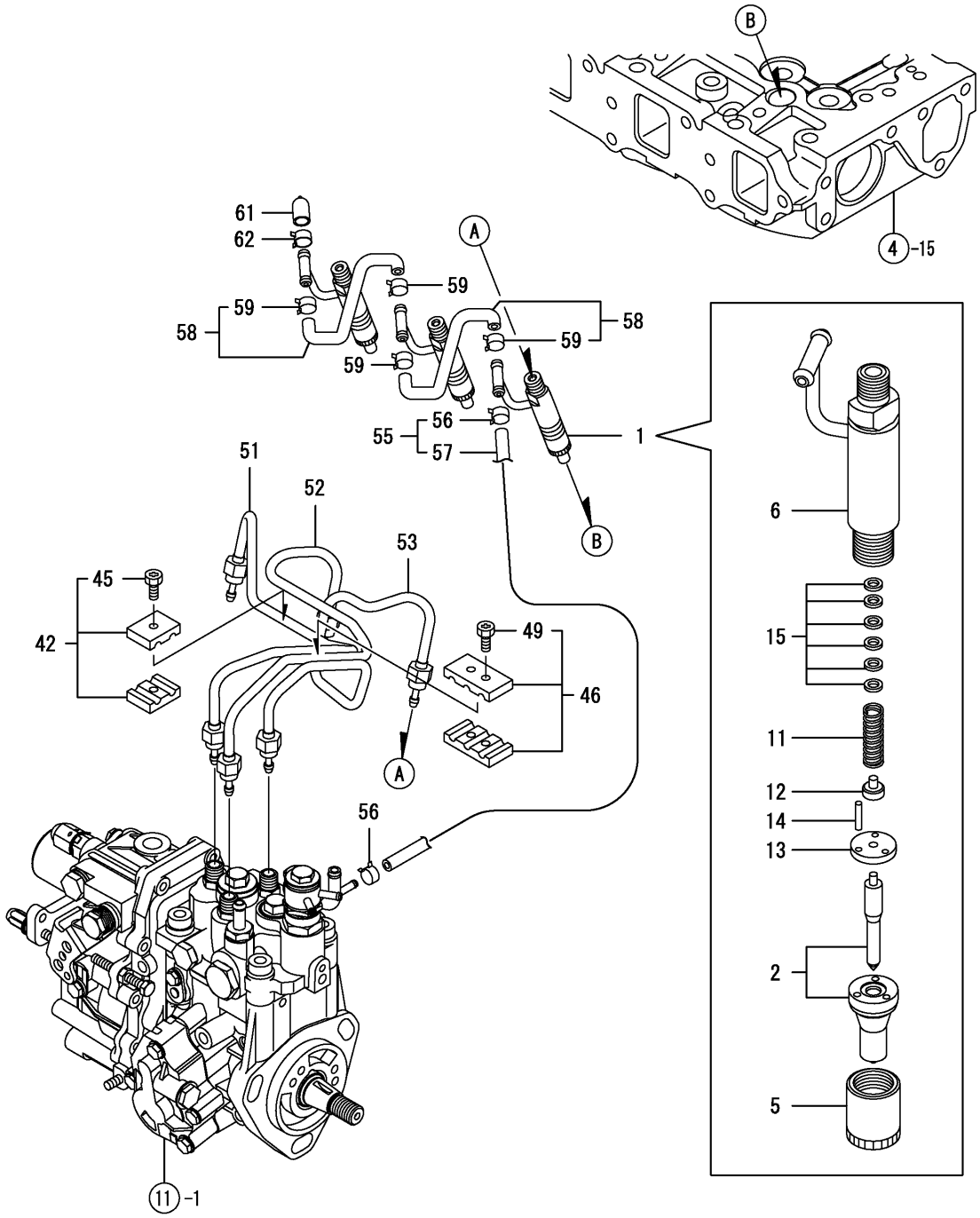
Y00W4660	11. FUEL INJECTION PUMP			
3TNV82A-BPMS	1. 08/10	2	3	PLUS

Ref. No.	Part No.	Description	Quantity 3TNV82A
1	198127	INJECTION PUMP ASSY	1
4	192291	JOINT, COOLING WATER	1
	197642	HARNESS CMP	1
5	192292	JOINT, OVERFLOW	1
6	192290	JOINT, OVERFLOW	1
13	192293	KEY,WOODRUFF 4X16	1
38	197772	STOPPER	1
39	197770	O-RING	1
40	197770	O-RING	1
41	198128	VALVE ASSY, DELIVERY	3
50	186678	SPRING	3
58	197773	PLUG	1
59	197468	BARREL PLUG	1
60	198129	PK(BARREL PLUG	3
61	198129	PK(BARREL PLUG	1
62		PLUG	1
64		LIFTER	1
65		TIMER SET	1
66		TIMER CMP	1
69		O-RING, 1011	1
70		BACKUP RING	1
71		O RING	1
72		PACKING, 1020	1
73		RING, BACKUP T2 P 15	1
74	186675	PACKING, HEAD	1
75		SPRING,TIMER	1
77		ELEMENT, THERMO	1
78		O-RING, P14	1
79		PACKING,TIMER	1
99		PISTON	1
100		SPRING, ACTUATOR	1
101		PLUG	1
103	425-35959	SEAL WASHER 12	1
104	192294	SEAL WASHER 18	1
105	425-35174	PLUG M12,HEX.	1
106	197857	BOLT	4
109	192297	O-RING	1
110	192299	O-RING 4E S42	1
111	425-35959	SEAL WASHER 12	2
112	192294	WASHER 18	2
113	188712	SPRING WASHER 14	1
114		PARALLEL PIN 5X14	2
115	425-34892	SPRING PIN 5X10	2
117	186607	O-RING 1A P-7.0	1
118	197798	O-RING	1
119	198131	PACKING, 1020	1
120	425-35263	BOLT 6X 10 PLATED	1
122	197872	BOLT M 8X 45	4
123	188755	LOCK NUT M14 PLATED	1
125	192295	PUMP ASSY,FEED	1
126	192296	O-RING(FEED P INNER	1
127	192298	JOINT,PIPE	1
128	425-35959	SEAL WASHER 12	1
130	188490	RETAINER,PUMP	1
131	425-34733	BOLT M 8X 16 PLATED	1
132	425-34746	BOLT M8 X 20 PLATED	1



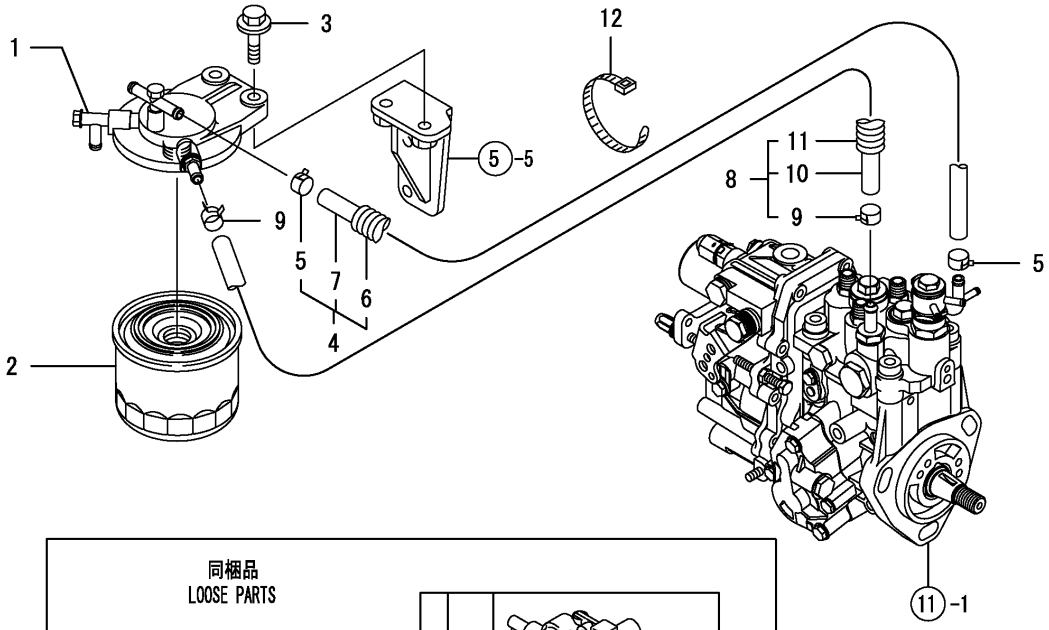
Y00W4660	12. GOVERNOR			
3TNV82A-BPMS	1. 08/10	2	3	PLUS

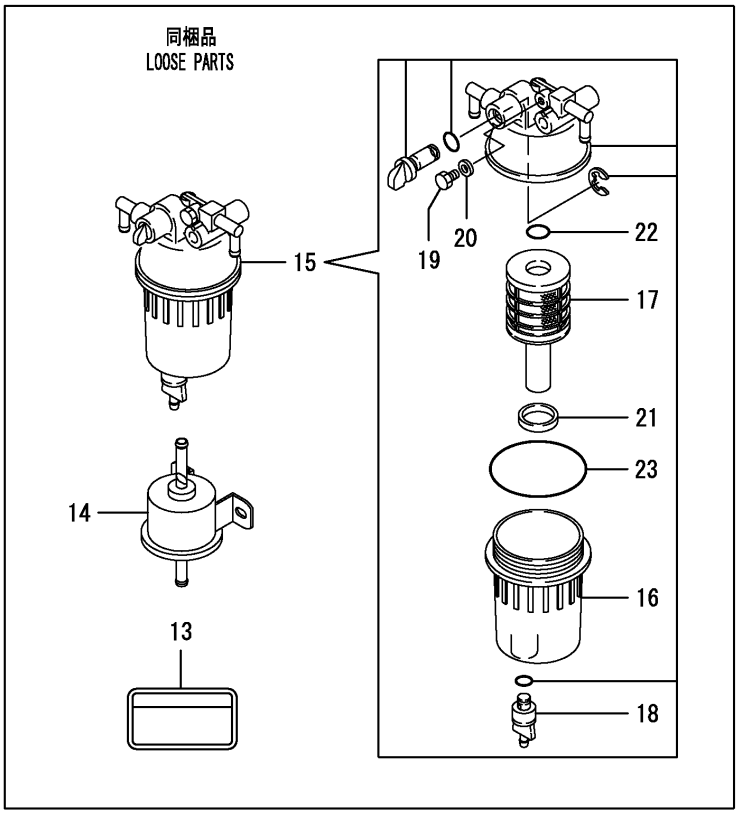
Ref. No.	Part No.	Description	Quantity 3TNV82A
3	192280	PACKING, CASE	1
4	192281	PACKING, COVER	1
6	425-34678	O-RING S6	1
22	192283	NUT	1
23	192284	SPRING, RETURN	1
24	192285	LEVER, REGULATOR	1
25	425-34981	BOLT, IDLE LIMIT	1
60	425-35352	RETAINER, SHAFT	1
64	270972	WASHER, SEAL 12(BOLT)	1
66	425-35174	PLUG M12,HEX.	1
68	425-35263	BOLT M6 X 10 PLATED	1
69	425-34984	LOCK NUT 6	1
78	270973	O-RING	1
84	425-35962	BOLT M6 X 14 PLATED	2
85	425-35962	BOLT M6 X 14 PLATED	4
86	188732	BOLT M 6X 20 PLATED	10
87	192287	COVER, GOVERNOR CASE	1
130	425-35925	SOLENOID, STOP	1



Y00W4660	13, FUEL INJECTION VALVE			
3TNV82A-BPMS	1, 08/10	2	3	PLUS

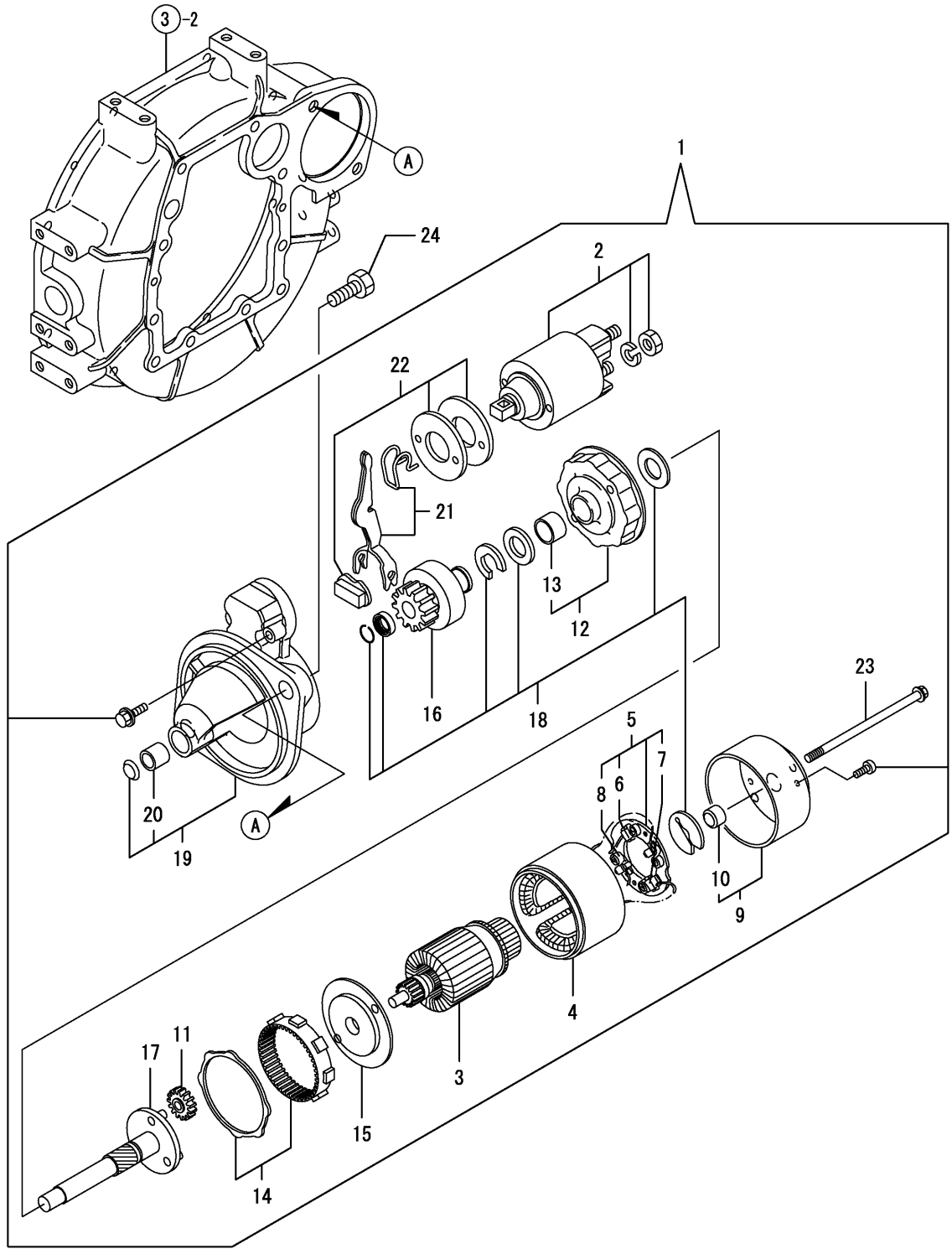
Ref. No.	Part No.	Description	Quantity 3TNV82A
1	198132	VALVE ASSY, INJECTION	3
2	198133	VAVLE ASSY, INJECTION	3
5	425-34903	NUT, CASE	3
6	188491	HOLDER ASSY, NOZZLE	3
11	425-34666	SPRING, NOZZLE	3
12	425-34905	SEAT, NOZZLE SPRING	3
13	425-34906	PLATE, STOP	3
14	188447	PIN	6
15	198134	SHIM SET	3
42	425-35968	RETAINER	1
45	186473	BOLT M4X14,HEX.SCKT.	1
46	425-35452	RETAINER, PIPE	1
49	186473	BOLT M4X14,HEX.SCKT.	2
51	198135	PIPE ASSY, INJECTION	1
52	198136	PIPE ASSY, INJECTION	1
53	198137	PIPE ASSY, INJECTION	1
55	188493	PIPE ASSY, RETURN	1
56	186464	CLAMP 9	2
57	188494	PIPE, FUEL RETURN	1
58	186481	PIPE ASSY, RETURN	2
59	186464	CLAMP 9	4
61	270977	CAP	1
62	188517	CLAMP 10	1





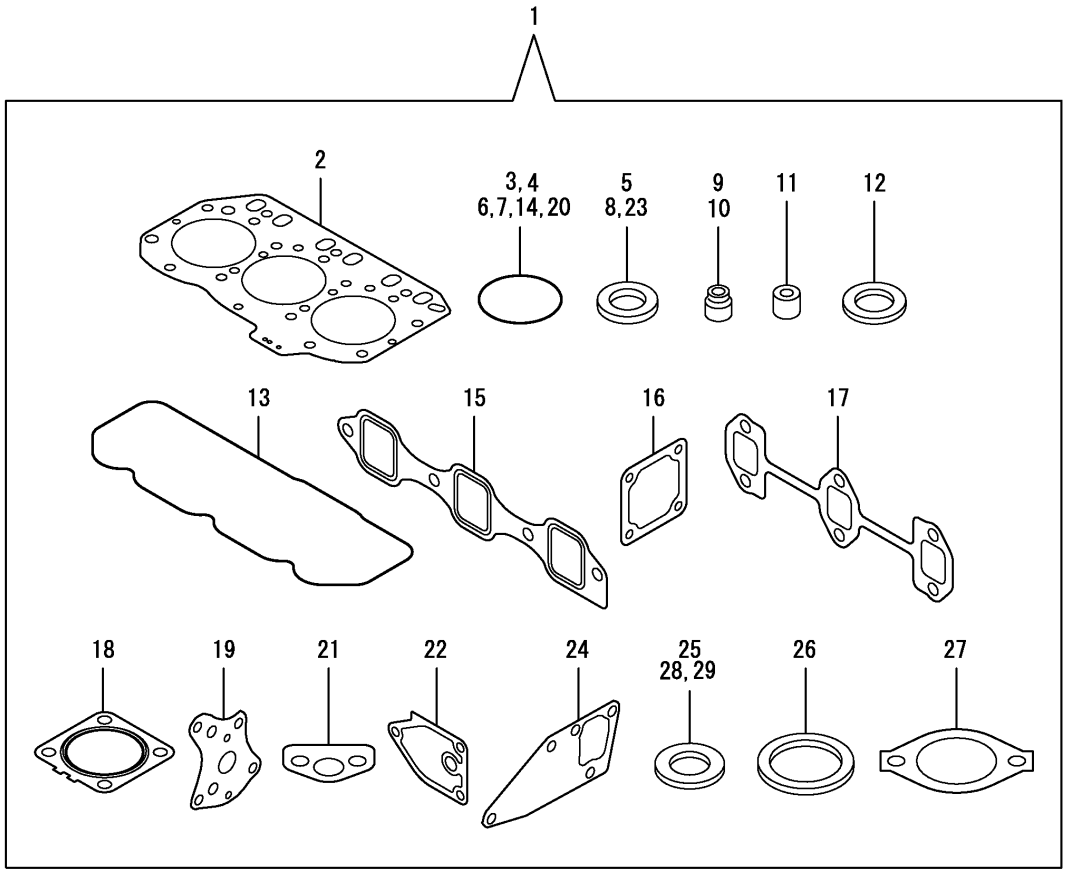
Y00W4660	14, FUEL LINE				
3TNV82A-BPMS		1, 08/10	2	3	PLUS

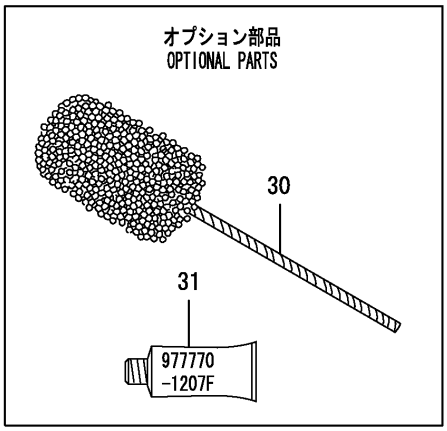
Ref. No.	Part No.	Description	Quantity 3TNV82A
1	186467	BRACKET,FUEL FILTER	1
2	203888	FILTER, FUEL	1
3	425-34760	BOLT M8 X 30 PLATED	2
4	186478	PIPE ASSY, FUEL OIL	1
5	425-34916	CLAMP 12	2
6	138107	TUBE, CORRUGATED	1
7	425-36289	PIPE, FUEL OIL	1
8	197746	PIPE ASSY, FUEL OIL	1
9	425-34916	CLAMP 12	2
10	198138	PIPE, FUEL OIL	1
11	188691	TUBE, CORRUGATED	1
12	137953	CLAMP 140	1
13	197868	LABEL/FUEL OIL	1
14	186308	PUMP ASSY, FUEL FEED	1
15	198139	SEPARATOR ASSY	1
16	203821	CUP	1
17	203822	ELEMENT	1
18	203823	PLUG, DRAIN	1
19	203824	VALVE, AIR VENT	1
20	203825	PACKING, PLUG	1
21	203826	FLOAT	1
22	425-34744	O-RING 1A P-16.0	1
23	203827	O-RING 1A G-75.0	1



Y00W4660	15, STARTING MOTOR			
3TNV82A-BPMS	1, 08/10	2	3	PLUS

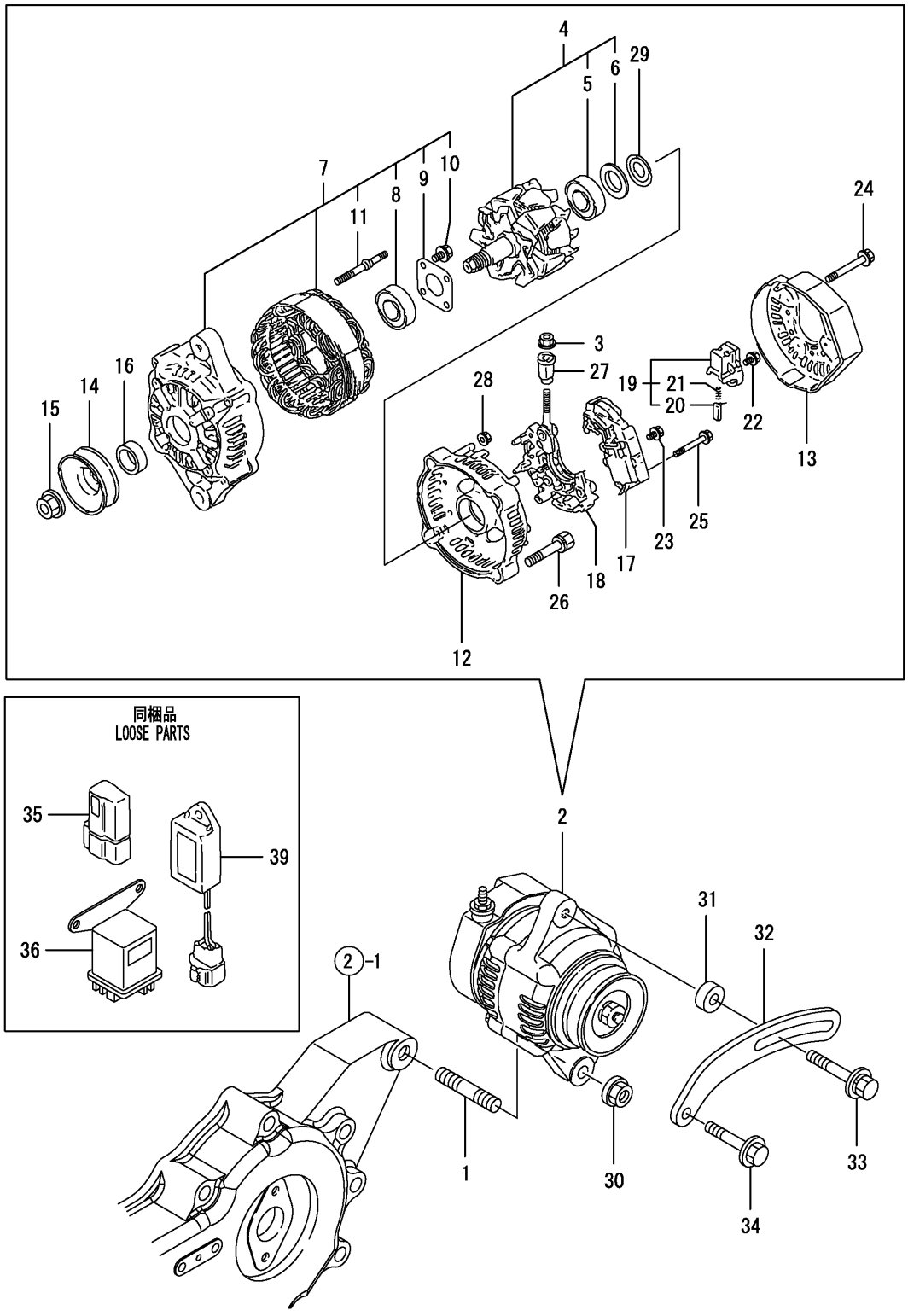
Ref. No.	Part No.	Description	Quantity 3TNV82A
1	198140	STARTER	1
2	198141	MAGNETIC SWITCH ASSY	1
3	198142	ARMATURE ASSY	1
4	198143	YOKE ASSY	1
5	198144	BRUSH HOLDER ASSY	1
6	198145	BRUSH(-)	2
7	198146	BRUSH(+) SET	1
8	198147	BRUSH SPRING	4
9	198148	REAR COVER ASSY	1
10	198149	REAR COVER METAL	1
11	198150	PLANET GEAR	3
12	198151	CENTER BRACKET(P)	1
13	198152	BRACKET	1
14	198153	GEAR, INTERNAL	1
15	198154	CENTER BRACKET(A)	1
16	198155	PINION ASSY	1
17	198156	SHAFT(PINION	1
18	198157	WASHER SET	1
19	198158	GEAR CASE ASSY	1
20	425-35756	METAL, STARTER	1
21	198159	SHIFT LEVER SET	1
22	198160	DUST COVER KIT	1
23	198161	THROUGH BOLT	2
24	188748	BOLT M12X 25 PLATED	2





Y00W4660	17, GASKET SET			
3TNV82A-BPMS	1, 08/10	2	3	PLUS

Ref. No.	Part No.	Description	Quantity 3TNV82A
1	198163	GASKET SET(NON-ASB.)	1
2	198068	GASKET, HEAD	1
3	188452	O-RING P16	2
4	425-34681	O-RING, F.I.PUMP	1
5	425-34750	SEAL WASHER 8S	3
6	425-34745	O-RING 1A P-32.0	3
7	425-34763	O-RING 1A P-24.0	1
8	138113	SEAL WASHER 22S	1
9	197472	SEAL, VALVE STEM	8
10	425-35191	SEAL, VALVE STEM	8
11	186337	PROTECTOR, NOZZLE	4
12	425-34796	SEAT, NOZZLE	4
13	198087	PK,BONNET	1
14	425-34776	O-RING 1A P 12.0	3
15	198090	GASKET, MANIFOLD	1
16	425-34649	GASKET, AIR HEATER	1
17	198094	GASKET, EXH.MANIFOLD	1
18	198097	GASKET, SILENCER	1
19	425-34701	GASKET, L.O. PUMP	1
20	425-34827	O-RING 1A P-10A	1
21	425-34828	GASKET, (NON-ASB.)	1
22	425-34831	GASKET, (NON-ASB.)	1
23	425-35958	SEAL WASHER 10S	2
24	198120	GASKET, WATER PUMP	1
25	425-34727	GASKET 8, ROUND	1
26	425-34705	GASKET, THERMOSTAT	1
27	425-34704	GASKET, (NON-ASB.)	1
28	160427	GASKET 16	1
29	425-34707	GASKET 10	1
30	197511	FLEX HORN	1
31	138154	GASKET.LIQUID	1



Y00W4660	16, GENERATOR				
3TNV82A-BPMS		1, 08/10	2	3	PLUS

Ref. No.	Part No.	Description	Quantity 3TNV82A
1	186484	STUD	1
2	188636	ALTERNATOR, 12V-40A	1
3	198162	NUT	1
4	186315	ROTOR ASSY	1
5	188508	BEARING, BALL	1
6	186325	COVER, BEARING	1
7	186316	FLAME ASSY, DRIVE	1
8	186321	BALL BEARING	1
9	186322	PLATE	1
10	186323	SCREW	4
11	186324	BOLT, STUD	2
12	186317	FLAME ASSY, REAR	1
13	188637	COVER, REAR END	1
14	186318	PULLEY	1
15	186319	NUT	1
16	186320	COLLAR	1
17	188638	REGULATOR ASSY	1
18	186326	HOLDER	1
19	186469	HOLDER, BRUSH	1
20	188455	BRUSH ASSY	2
21	188458	SPRING	2
22	186327	SCREW	6
23	186328	SCREW	1
24	186329	BOLT	3
25	186330	SCREW W/ WASHER	2
26	186331	BOLT	2
27	186332	INSULATION BUSH	1
28	186333	NUT	2
29	186334	THRUST WASHER	1
30	138141	NUT	1
31	188500	ADJUSTER, BELT	1
32	188495	ADJUSTER,BELT	1
33	192273	BOLT, ADJUSTER	1
34	425-34747	BOLT M 8X 45 PLATED	1
35	137945	DIODE	1
36	137946	RELAY, GLOW	1
39	138089	TIMER	1

SECTION NOTES

NUMERICAL INDEX

Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.	Part No.	Page No.	Ref. No.
137945	34	35	186675	22	74	192280	24	3	198097	12	7
137946	34	36	186678	22	50	192281	24	4	198097	32	18
137953	28	12	188447	26	14	192283	24	22	198098	14	2
138076	20	34	188452	4	9	192284	24	23	198099	14	3
138089	34	39	188452	32	3	192285	24	24	198100	16	15
138107	28	6	188455	34	20	192287	24	87	198101	16	17
138113	6	10	188458	34	21	192290	22	6	198102	16	21
138113	32	8	188465	8	43	192291	22	4	198103	16	22
138117	16	7	188466	8	44	192292	22	5	198104	16	23
138140	4	18	188467	8	45	192293	22	13	198105	16	26
138140	12	6	188469	8	46	195568	18	31	198106	16	27
138141	34	30	188470	8	6	197468	22	59	198107	16	29
138154	32	31	188471	8	7	197472	8	25	198108	16	30
138520	20	30	188472	8	8	197472	32	9	198109	16	32
160427	20	33	188475	16	8	197511	32	30	198110	16	34
160427	32	28	188479	14	16	197589	2	12	198111	18	17
176144	10	12	188485	18	18	197642	22	4	198112	18	22
176145	10	8	188486	18	28	197746	28	8	198113	18	27
186308	28	14	188487	18	35	197755	4	1	198114	20	1
186315	34	4	188491	26	6	197770	22	39	198115	20	3
186316	34	7	188493	26	55	197770	22	40	198116	20	4
186317	34	12	188494	26	57	197771	4	4	198117	20	8
186318	34	14	188495	34	32	197772	22	38	198118	20	9
186319	34	15	188500	34	31	197773	22	58	198119	20	11
186320	34	16	188502	8	34	197868	28	13	198120	20	16
186321	34	8	188508	34	5	198067	2	1	198120	32	24
186322	34	9	188517	26	62	198068	32	2	198121	20	23
186323	34	10	188526	20	46	198069	2	29	198122	20	36
186324	34	11	188537	4	11	198070	2	32	198123	20	37
186325	34	6	188573	6	1	198071	6	6	198124	20	40
186326	34	18	188573	6	13	198072	6	7	198125	20	41
186327	34	22	188573	16	2	198073	6	16	198126	20	42
186328	34	23	188574	6	14	198074	8	3	198127	22	1
186329	34	24	188596	8	11	198075	8	4	198128	22	41
186330	34	25	188597	8	9	198076	8	10	198129	22	60
186331	34	26	188632	10	2	198077	8	15	198129	22	61
186332	34	27	188636	34	2	198078	8	21	198130	16	1
186333	34	28	188637	34	13	198079	8	22	198132	26	1
186334	34	29	188638	34	17	198080	8	23	198133	26	2
186337	8	31	188640	6	17	198081	8	24	198134	26	15
186337	32	11	188679	8	1	198082	8	29	198135	26	51
186339	20	38	188691	28	11	198083	8	30	198136	26	52
186461	20	47	188692	14	17	198084	8	33	198137	26	53
186464	20	39	188707	16	12	198085	8	40	198138	28	10
186464	20	43	188712	14	18	198086	8	41	198139	28	15
186464	26	56	188720	20	48	198087	8	48	198140	30	1
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186467	28	1	188732	20	25	198088	8	54	198142	30	3
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186481	26	58	188749	6	4	198093	12	1	198148	30	9
186484	34	1	188750	6	5	198094	12	2	198149	30	10
186598	8	49	188755	14	19	198094	32	17	198150	30	11
186598	8	50	188757	2	14	198095	12	3	198151	30	12
186600	18	38	192273	34	33	198096	12	4	198152	30	13

NUMERICAL INDEX

Part No.	Page No.	Ref. No.
198153	30	14
198154	30	15
198155	30	16
198156	30	17
198157	30	18
198158	30	19
198159	30	21
198160	30	22
198161	30	23
198162	34	3
198163	32	1
198176	20	22
203077	2	15
203078	2	27
203082	2	35
203171	20	24
203821	28	16
203822	28	17
203823	28	18
203824	28	19
203825	28	20
203826	28	21
203827	28	23
203888	28	2
270946	4	3
270948	4	5
270949	4	19
270951	8	55
270954	10	10
270956	14	9
270957	14	10
270958	14	13
270960	16	4
270966	18	29
270970	20	31
270972	24	64
270973	24	78
270977	26	61
425-34649	10	9
425-34649	32	16
425-34656	14	4
425-34661	20	26
425-34666	26	11
425-34678	24	6
425-34681	4	10
425-34681	32	4
425-34683	20	32
425-34684	18	33
425-34693	16	11
425-34694	16	14
425-34701	18	14
425-34701	32	19
425-34704	20	29
425-34704	32	27
425-34705	20	27
425-34705	32	26
425-34707	20	35
425-34707	32	29
425-34721	2	6
425-34721	2	7
425-34722	2	8
425-34723	2	4
425-34725	2	13
425-34727	20	17
425-34727	32	25
425-34729	20	18
425-34733	4	14
425-34733	4	15
425-34733	6	11
425-34733	8	2
425-34733	10	6
425-34733	18	20
425-34740	4	6
425-34740	8	39
425-34741	4	7
425-34743	4	8
425-34744	28	22
425-34745	4	13
425-34745	8	53
425-34745	32	6
425-34746	18	32
425-34747	6	12
425-34747	8	37
425-34747	34	34
425-34748	4	17
425-34748	20	20
425-34750	4	12
425-34750	18	37
425-34750	18	39
425-34750	32	5
425-34754	6	2
425-34756	6	3
425-34760	4	16
425-34760	28	3
425-34761	6	18
425-34761	18	26
425-34761	20	19
425-34763	4	20
425-34763	32	7
425-34765	8	36
425-34765	10	7
425-34766	8	38
425-34769	8	42
425-34775	8	51
425-34776	8	52
425-34776	32	14
425-34779	8	20
425-34781	18	41
425-34783	8	35
425-34791	8	13
425-34796	8	32
425-34796	32	12
425-34807	14	6
425-34808	14	1
425-34810	14	7
425-34810	16	5
425-34817	16	9
425-34818	16	10
425-34823	18	15
425-34825	18	16
425-34827	18	19
425-34827	32	20
425-34828	18	21
425-34828	32	21
425-34831	18	30
425-34831	32	22
425-34835	18	34
425-34843	20	28
425-34903	26	5
425-34905	26	12
425-34906	26	13
425-34916	28	5
425-34916	28	9
425-34981	24	25
425-34984	24	69
425-35149	2	9
425-35164	4	21
425-35174	24	66
425-35189	8	27
425-35191	8	26
425-35191	32	10
425-35192	8	14
425-35263	24	68
425-35352	24	60
425-35452	26	46
425-35756	30	20
425-35925	24	130
425-35958	18	40
425-35958	32	23
425-35962	20	14
425-35962	24	84
425-35962	24	85
425-35968	26	42
425-36121	6	8
425-36152	20	50
425-36187	14	15
425-36233	20	44
425-36235	20	49
425-36240	2	5
425-36249	12	5
425-36257	18	1
425-36260	20	13
425-36261	20	21
425-36289	28	7

TORQUE SPECIFICATIONS

Use these torque values when tightening hardware (excluding locknuts, and self-tapping, thread-forming, and sheet metal screws) unless otherwise specified.

UNIFIED NATIONAL THREAD	GRADE 2		GRADE 5		GRADE 8	
	DRY	LUBED	DRY	LUBED	DRY	LUBED
8-32	19*	14*	30*	22*	41*	31*
8-36	20*	15*	31*	23*	43*	32*
10-24	27*	21*	43*	32*	60*	45*
10-32	31*	23*	49*	36*	68*	51*
1/4-20	66*	50*	9	75*	12	9
1/4-28	76*	56*	10	86*	14	10
5/16-18	11	9	17	13	25	18
5/16-24	12	9	19	14	25	20
3/8-16	20	15	30	23	45	35
3/8-24	23	17	35	25	50	35
7/16-14	32	24	50	35	70	55
7/16-20	36	27	55	40	80	60
1/2-13	50	35	75	55	110	80
1/2-20	55	40	90	65	120	90
9/16-12	70	55	110	80	150	110
9/16-18	80	60	120	90	170	130
5/8-11	100	75	150	110	220	170
5/8-18	110	85	180	130	240	180
3/4-10	175	130	260	200	380	280
3/4-16	200	150	300	220	420	320
7/8-9	170	125	430	320	600	460
7/8-14	180	140	470	360	660	500
1-8	250	190	640	480	900	680
1-12	270	210	710	530	1000	740
METRIC COARSE THREAD	**GRADE 8.8**		**GRADE 10.9**		**GRADE 12.9**	
	DRY	**LUBED**	**DRY**	**LUBED**	**DRY**	**LUBED**
M6-1	8	6	11	8	13.5	10
M8-1.25	19	14	27	20	32.5	24
M10-1.5	37.5	28	53	39	64	47
M12-1.75	65	48	91.5	67.5	111.5	82
M14-2	103.5	76.5	145.5	108	176.5	131
M16-2	158.5	117.5	223.5	165.5	271	200

*All torque values are in ft-lbs except those marked with an * which are in lbs.

For metric torque value (N·m) multiply ft-lbs value by 1.355 or the in-lbs value by 0.113.

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