

0CD10-M39301EN

PREFACE

1. This Parts Catalog is the 1st edition of 3TN(A)66,68,72L Diesel Engine for WAKITA PRECISION.

Pub. No. : 000Y00D3931

Published : May,1991

2. Model name

Engine model	Vehicle		Vehicle made by
	Products	Model name	
3TN(A)66,68,72L	—	—	WAKITA PRECISION

How to read this Parts Catalog.

1. Parts mentioned in Parts Catalog may not necessarily be standard equipping parts
2. Parts change may be made without prior notice.
3. Form of this Parts Catalog.

Y00F2161 29. FUEL INJECTION PUMP (W/BOOST)															
①	②	REF.	LEV.	PARTS No.	DESCRIPTION	(A)	(B)	(C)	(D)	(E)	(F)	I	R	④	⑥
1				729595-51390	FUEL INJECTION PUMP	1	1	1	1	1					
1-1	1			729595-51391	FUEL INJECTION PUMP	1	1	1	1	1					
				(A=E00185) (B=E00200)											
3	2			26022-060162	SCREW M 6X16	9	9	9	9	9					
1 3-1	2			26022-060162	SCREW M 6X16	4	4	4	4	4					
				(A=E00156) (B=E00156) (C=E00156) (D=E00156) (E=E00156)											
4	2			129470-51040	CAMSHIFT	9	9	9	9	9					
5	2			122710-51050	BEARING ROLLER	9	9	9	9	9					
6	2			129470-51060	RETAINERS	9	9	9	9	9					

Remarks

(1) BOOST COMPENSATOR TYPE.
OPTIONAL PART. TO E/#00155
(4JH-DT, 4JH-DTZ)

①Ref. No,

The Ref. No, in the list may not be in accordance with the Ref. No, on illustration.

(Ex.) illustration No,

List heed No,

1

1

(Before change) → 1-1 (After change)

When interchangeable symbol N, and k, illustrations for the new parts are sometimes omitted.

②Lev. (Level)

Indication and Meaning of Level

Level Hereunder is given the relation among the number of number (1,2,3) the level and the nominal parent-child relationship.

1 ---- Parent parts (Assembly parts)

2 ---- Child parts included in " 1 " (Semi-Assembly parts, component parts of Assembly parts.)

3 ---- Child parts included in " 2 ", Grand-child parts in terms of " 1 ".

(Component parts of Semi-Assembly parts.)

Note) A parts of non-sale parts are illustrated but not listed.

③Change Mark

Change Mark " I " is given to the part for which a design change was made at this time.

The design change was not shown in the last published Parts Catalog.

④Interchangeability Mark

In the case where a part change took place, one of the following interchangeability marks is indicated for that part

Symbol	Interchangeability	Contents note
N	Old ← New	New Part is interchangeable for Old Part but not interchangeable conversely.
Q	Old ← New	New Part is not interchangeable for Old Part but interchangeable conversely.
R	Old ← New	New Part is interchangeable for Old Part and vice versa.
S	Old ← New	New Part is not interchangeable for Old Part and vice versa.
W		Part newly added.
Z		Part discontinued.
F		Not interchangeable single part but interchangeable by set of the related parts.
K		Changed only in quantity used.

⑤Effective Machine No,

When a part is changed, Effective Machine No, of a Model for which the part is applicable is indication

In each column of (A)-(F).

Product Symbol	Product No,	Product Symbol	Product No,
C	Clutch No, Compressor No,	M	Machine No,
D	Drive No,	T	Tractor No,
E	Engine No,	Note 1)※	Date

Note 1) Date may follow the symbol in some cases.(Ex.) ※1996.01

Note 2) As far as engine models shown by " XXX " are concerned, the modification of the parts could not be Predicted or the engine models themselves could not be identified.

Note 3) (A=E/#00185) means that the design change on the part has been effective for the model at the, column (A) (in the case, for 4JH-DT) on and from E/#(Engine Serial Number) 00185

⑥Remarks Mark

Figures or alphabets (Symbols) are entered in the remark column.

The comments (remarks) on the pertinent parts are indicated in the lower part of the list by the same symbols a those stated above.

Contents

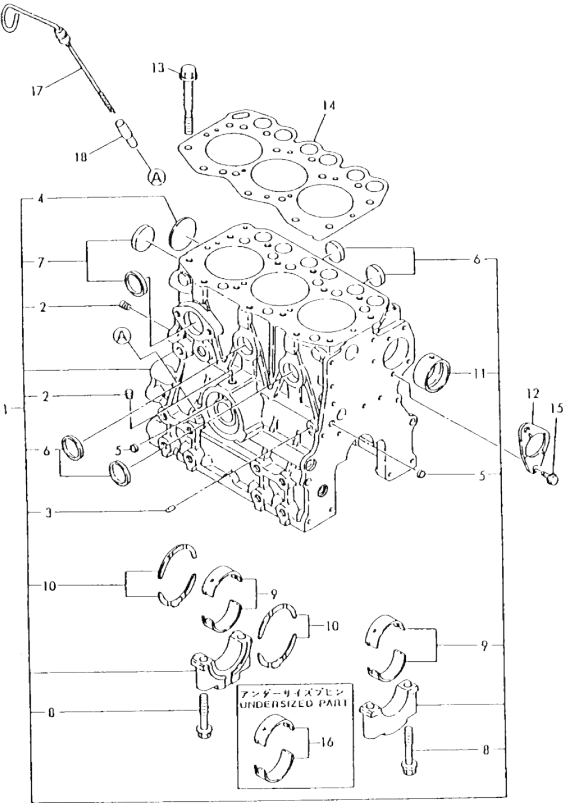
Fig. No.	Fig. Name
ENG. 3TN(A)66,68,72L	
1.	CYLINDER BLOCK
2.	CYLINDER BLOCK
3.	CYLINDER BLOCK
4.	GEAR HOUSING
5.	GEAR HOUSING
6.	FLYWHEEL HOUSING
7.	OIL SEAL HOUSING
8.	LUB.OIL SUMP
9.	LUB.OIL SUMP
10.	CYLINDER HEAD
11.	VALVE ROCKER ARM
12.	BONNET
13.	AIR CLEANER
14.	SUCTION & EXHAUST MANIFOLD
15.	CAMSHAFT
16.	CRANKSHAFT & FLYWHEEL
17.	PISTON & CONNECTING ROD
18.	IDLE GEAR & FUEL PUMP GEAR
19.	LUB.OIL PUMP
20.	LUB.OIL STRAINER
21.	LUB.OIL SUCTION PIPE
22.	COOLING WATER PUMP
23.	RADIATOR & FAN
24.	THERMOSTAT

Fig. No.	Fig. Name
25.	COOLING WATER LINE
26.	FUEL INJECTION PUMP
27.	FUEL INJECTION VALVE
28.	FUEL STRAINER
29.	FUEL INJECTION LINE
30.	FUEL LINE
31.	FUEL RETURN LINE
32.	GOVERNOR
33.	CONTROL SYSTEM
34.	STARTING MOTOR(COMPONENT PARTS)
35.	GENERATOR(COMPONENT PARTS)
36.	ELECTRIC PARTS
37.	TOOLS
38.	GASKET SET(OPTION)
39.	SPECIAL TOOL(OPTIONAL)

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Fig.1. CYLINDER BLOCK

019270-01110
019260-02100
019260-02200
019645-34100

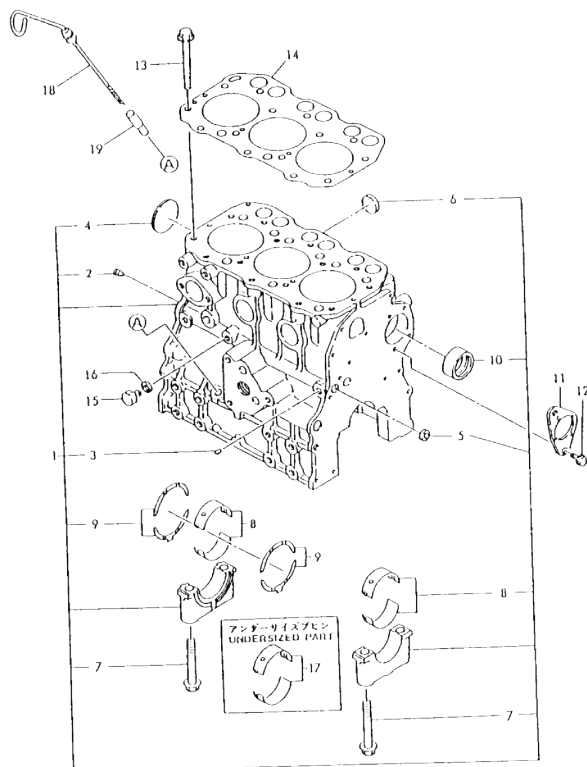


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719260-01560	BLOCK ASSY, CYLINDER	1							
2	2	124060-01050	PLUG, PT1/8	2							
3	2	27221-060100	PLUG, 6X10	1							
4	2	27231-400000	PLUG 40	1							
5	2	27241-100000	PLUG, 10	2							
6	2	27241-250000	PLUG, 25	4							
7	2	27241-300000	PLUG 30	2							
8	2	119260-02020	BOLT, METAL CAP	8							
9	2	719260-02800	BEARING, MAIN	4							
10	2	719260-02930	BEARING, THRUST	2							
11	2	119260-02410	BUSH, CAMSHAFT	1							
12	1	119620-02450	BEARING, THRUST	1							
13	1	119260-01200	BOLT, HEAD	14							
14	1	119255-01340	GASKET, HEAD	1							
15	1	26106-060122	BOLT, M6X 12 PLATED	2							
16	1	719260-02870	BEARING, 0.25 US	1							1
17	1	119645-34800	DIPSTICK, OIL	1							
18	1	121520-34810	GUIDE, DIPSTICK	1							

Remarks
(1)UNDER-SIZE PART.

N:Old $\frac{YBS}{100}$ New, Q:Old $\frac{R10}{100}$ New, R:Old $\frac{YBS}{100}$ New, S:Old $\frac{R10}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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019600-01100
019620-02100
019620-02200
019645-34100



Remarks
(1) UNDER-SIZE PART.

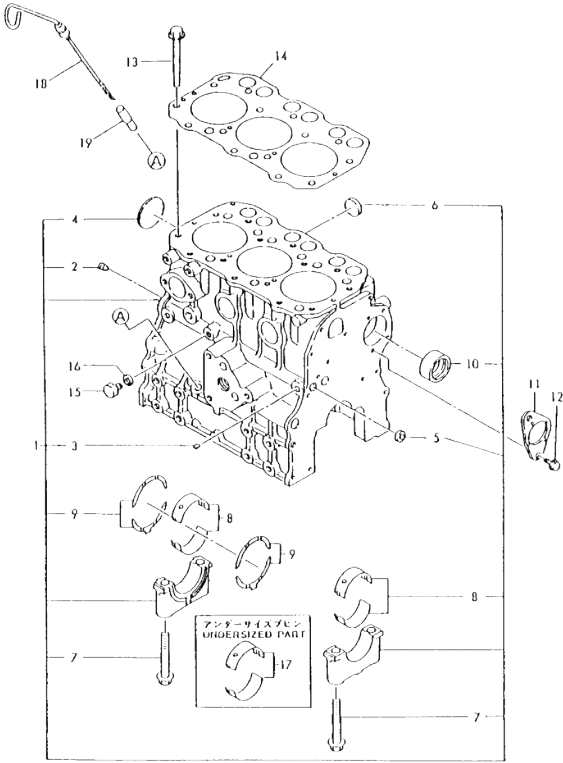
No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719600-01562	BLOCK ASSY, CYLINDER		1						
2	2	124160-01900	PLUG, PT1/4		1						
2-1	2	119600-01050	PLUG, PT1/4		1						N
(B="1987,12)											
3	2	23871-010000	PLUG, R01		1						
4	2	27231-450000	PLUG 45		1						
5	2	27241-120000	PLUG, 12		1						
6	2	27241-300000	PLUG 30		6						
7	2	119620-02020	BOLT, METAL CAP		8						
8	2	719620-02800	BEARING, MAIN		4						
9	2	719620-02930	BEARING, THRUST		2						
10	2	119620-02410	BUSH, CAMSHAFT		1						
11	1	119620-02450	BEARING, THRUST		1						
12	1	26106-060122	BOLT, M6X 12 PLATED		2						
13	1	119620-01200	BOLT, HEAD		14						
14	1	119656-01340	GASKET, HEAD		1						
15	1	119656-01900	PLUG, 8		1						Z
(B=EXXX)											
16	1	104884-59170	GASKET		1						Z
(B=EXXX)											
17	1	719620-02870	BEARING, 0.25 US		4						1
18	1	119645-34800	DIPSTICK, OIL		1						
19	1	121520-34810	GUIDE, DIPSTICK		1						

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

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Fig.3. CYLINDER BLOCK

019910-01100
019920-02100
019930-02200
019940-03100



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719610-01560	BLOCK ASSY, CYLINDER			1					
2	2	124160-01910	PLUG, PT1/4			1					
2-1	2	119600-01050	PLUG, PT1/4			1				N	
(C=E18586)											
3	2	23871-010000	PLUG, R01			1					
4	2	27231-450000	PLUG 45			1					
5	2	27241-120000	PLUG, 12			1					
6	2	27241-300000	PLUG 30			6					
7	2	119620-02020	BOLT, METAL CAP			8					
8	2	719620-02800	BEARING, MAIN			4					
9	2	719620-02930	BEARING, THRUST			2					
10	2	119620-02410	BUSH, CAMSHAFT			1					
11	1	119620-02450	BEARING, THRUST			1					
12	1	26106-060122	BOLT, M6X 12 PLATED			2					
13	1	119620-01200	BOLT, HEAD			14					
14	1	119610-01340	GASKET, HEAD			1					
15	1	119656-01900	PLUG, 8			1				Z	
(C=E18586)											
16	1	104884-59170	GASKET			1				Z	
(C=E18586)											
17	1	719620-02870	BEARING, 0.25 US			4					1
18	1	119645-34800	DIPSTICK, OIL			1					
19	1	121520-34810	GUIDE, DIPSTICK			1					

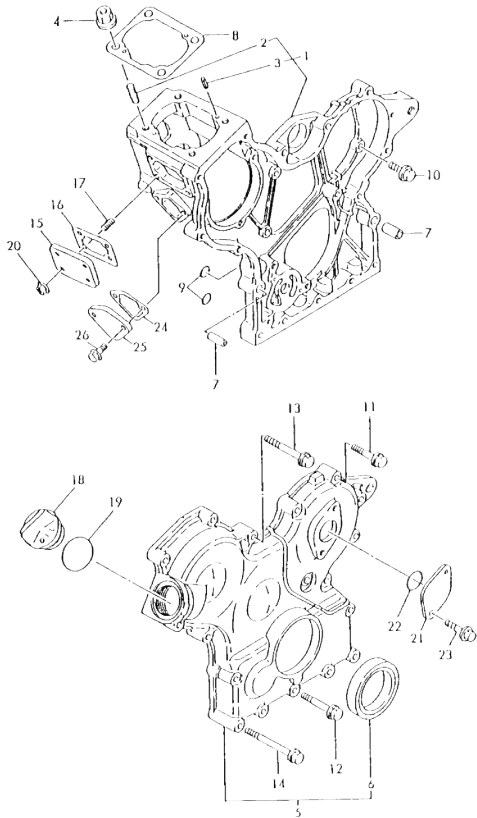
Remarks
(1) UNDER-SIZE PART.

N:Old $\frac{100}{100}$ New, Q:Old $\frac{100}{100}$ New, R:Old $\frac{100}{100}$ New, S:Old $\frac{100}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.4. GEAR HOUSING

019260-01200
019660-01300
019660-01800
019660-52200



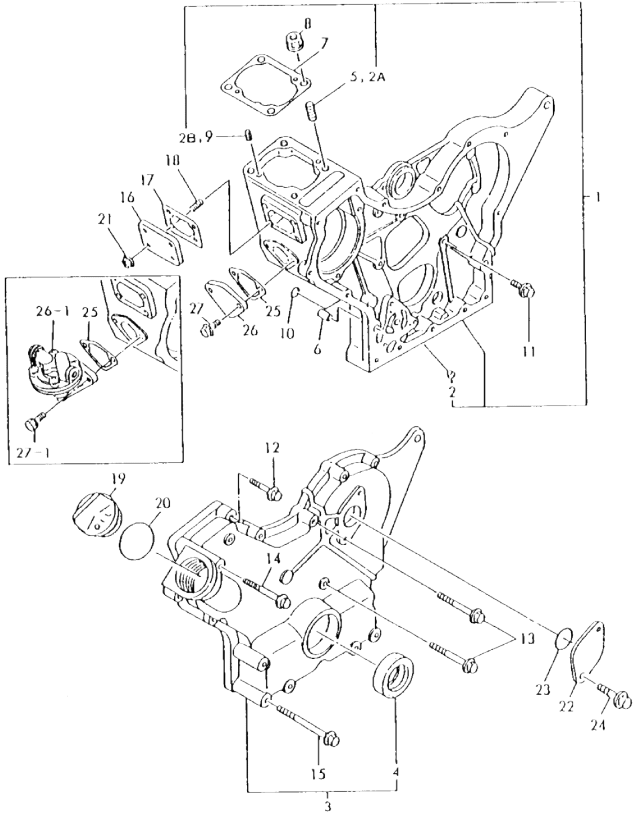
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119260-01490	CASE ASSY, GEAR	1							W
(A=*1987.11)											
2	2	121450-01560	STUD, M8X22	4							
3	2	22351-040010	PIN, SPRING 4.0X10	2							
4	1	194990-22050	NUT, M8	4							
5	1	119260-01590	COVER ASSY,GEAR CASE	1							W
(A=*1990.05)											
6	2	119620-01800	SEAL, OIL	1							
7	1	119660-01911	PIPE, KNOCK	4							
8	1	119620-01950	SHIM SET, ADJUSTING	1							
9	1	24311-000120	O-RING, 1AP12.0	2							
10	1	26106-060162	BOLT, M6X 16 PLATED	5							
11	1	26106-060302	BOLT, M6X 30 PLATED	5							
12	1	26106-060402	BOLT, M6X 40 PLATED	3							
13	1	26106-060502	BOLT, M6X 50 PLATED	4							
14	1	26106-060652	BOLT, M6X 65 PLATED	6							
15	1	119660-01551	COVER	1							
16	1	119660-01561	GASKET	1							
16-1	1	119660-01562	GASKET	1							N
(A=*1990.01)											
17	1	119660-01570	STUD, M6X12	4							
18	1	124160-01751	COVER, FILLER	1							
19	1	121420-01760	O-RING	1							
19-1	1	24311-000320	O-RING, 1AP32.0	1							N
(A=*1988.04)											
20	1	26366-060002	NUT, M6	4							
21	1	121023-01550	COVER	1							
22	1	24341-000260	O-RING, 1AS26.0	1							S
22-1	1	24341-000240	O-RING, 1AS24.0	1							
(A=*1989.01)											
23	1	26106-060182	BOLT, M6X 18 PLATED	2							
24	1	121520-01850	GASKET	1							
24-1	1	121520-01851	GASKET	1							N
(A=*1990.01)											
25	1	121520-01860	COVER	1							
26	1	26106-060162	BOLT, M6X 16 PLATED	2							

N:Old $\frac{YBS}{100}$ New, Q:Old $\frac{RIS}{100}$ New, R:Old $\frac{YBS}{100}$ New, S:Old $\frac{RIS}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.5. GEAR HOUSING

019610-01200
019600-01300
019600-01800
019600-52100
019600-52200



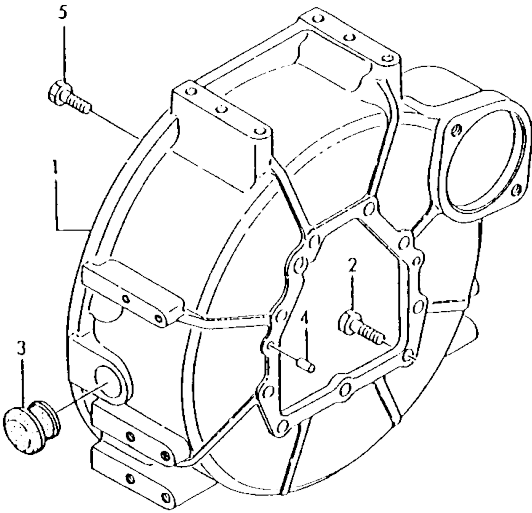
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119610-01490	CASE ASSY, GEAR		1	1					
2	2	119660-01510	PLUG, 10X14		1	1					
2A	2	121450-01560	STUD, M8X22		4	4				W	
2B	2	(B=*1987.12)	(C=E18586)								
		22351-040010	PIN, SPRING 4.0X10		2	2				W	
3	1	119610-01590	COVER ASSY, GEAR CASE		1	1				W	
4	2	119620-01800	SEAL, OIL		1	1					
5	1	121450-01560	STUD, M8X22		4	4				Z	
6	1	119660-01911	PIPE, KNOCK		4	4					
7	1	119620-01950	SHIM SET, ADJUSTING		1	1					
8	1	194990-22050	NUT, M8		4	4					
9	1	22351-040010	PIN, SPRING 4.0X10		2	2				Z	
10	1	(B=*1987.12)	(C=E18586)								
		24311-000120	O-RING, 1AP12.0		2	2					
11	1	26106-060162	BOLT, M6X 16 PLATED		7	7					
12	1	26106-060302	BOLT, M6X 30 PLATED		8	8					
13	1	26106-060602	BOLT, M6X 60 PLATED		3	3					
14	1	26106-060602	BOLT, M6X 60 PLATED		1	1					
15	1	26106-060802	BOLT, M6X 80 PLATED		6	6					
16	1	119660-01551	COVER		1	1					
17	1	119660-01561	GASKET		1	1					
17-1	1	119660-01562	GASKET		1	1				N	
18	1	119660-01570	STUD, M6X12		4	4					
19	1	124160-01751	COVER, FILLER		1	1					
20	1	121420-01760	O-RING		1	1					
20-1	1	24311-000320	O-RING, 1AP32.0		1	1				N	
21	1	(B=*1988.04)	(C=E21755)								
		26366-060002	NUT, M6		4	4					
22	1	121023-01550	COVER		1	1					
23	1	24341-000260	O-RING, 1AS26.0		1	1					
23-1	1	24341-000240	O-RING, 1AS24.0		1	1				S	
24	1	(B=*1989.01)	(C=E25840)								
		26106-060182	BOLT, M6X 18 PLATED		2	2					
25	1	121520-01850	GASKET		1	1					
25-1	1	121520-01851	GASKET		1	1				N	
26	1	(B=*1990.01)	(C=*1990.01)								
		121520-01860	COVER		1	1					
26-1	1	119600-52021	PUMP ASSY, FUEL FEED			1				S	
27	1	(C=EXXX)									
		26106-060162	BOLT, M6X 16 PLATED		2	2					
27-1	1	26014-060202	BOLT, M6X 20			2				S	
			(C=EXXX)								

N:Old $\frac{100}{100}$ New, Q:Old $\frac{100}{100}$ New, R:Old $\frac{100}{100}$ New, S:Old $\frac{100}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.6. FLYWHEEL HOUSING

D19600-01400



(A)=3TN66L-UHW
(B)=3TNA68L-UHW
(C)=3TNA72L-UHW

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119600-01600	HOUSING, FLYWHEEL	1	1	1					
2	1	121120-01620	BOLT, M10X28	3	3	3					
3	1	119620-01750	CAP	1	1	1					
4	1	129100-01580	PIN, M8X16	2	2	2					
5	1	26206-100252	BOLT, M10X 25 PLATED	6	6	6					

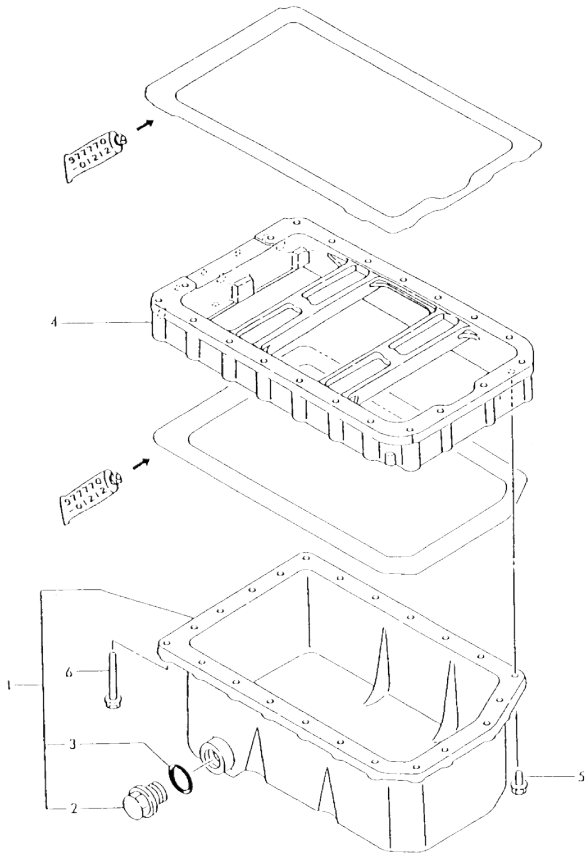
Fig.7. OIL SEAL HOUSING

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119660-01640	CASE ASSY, OIL SEAL	1	1	1				W	
		(A="1990.05)	(B="1990.05)	(C="1990.05)							
2	2	124085-02220	SEAL, OIL	1	1	1					
3	1	119620-01620	PIN, M6X10	2	2	2					
4	1	26106-06020	BOLT, M6X 20 PLATED	10	10	10					
4-1	1	26106-06022	BOLT, M6X 22 PLATED	10	10	10				N	
		(A=EXXX)	(B=EXXX)	(C=EXXX)							

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

Fig.8. LUB.OIL SUMP

019260-01710



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719288-01540	SUMP ASSY, OIL	1							
1-1	1	119260-01770	SUMP ASSY, OIL	1							N
(A=*1990.)											
2	2	121400-01640	PLUG, 16	1							
3	2	24311-000180	O-RING, 1AP18.0	1							
4	1	119454-01721	SPACER, OIL SUMP	1							
5	1	26106-060102	BOLT, M6X 10 PLATED	3							
6	1	26106-060452	BOLT, M6X 45 PLATED	20							

Fig.9. LUB.OIL SUMP

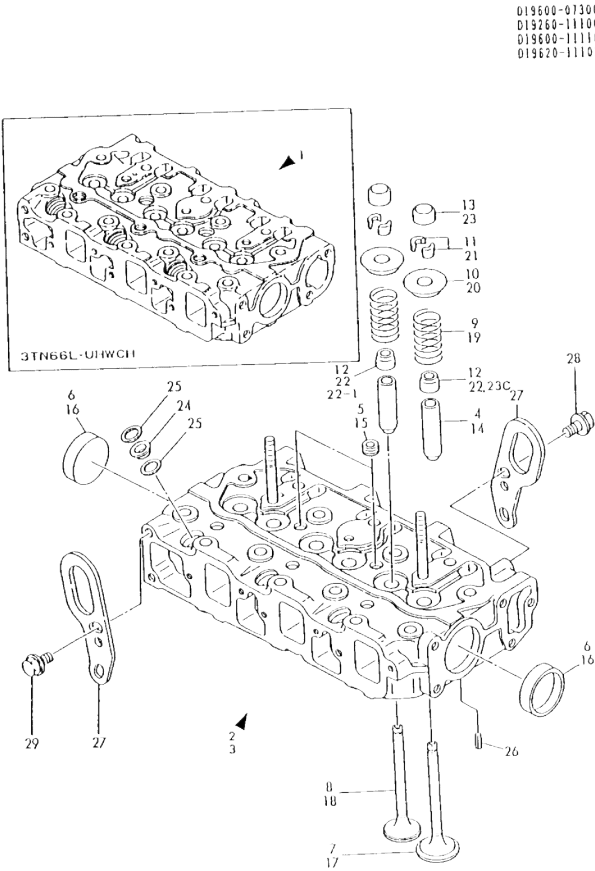
[illegible]

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	1719600-01541	SUMP ASSY, OIL		1	1					
1-1	1	119600-01770	SUMP ASSY, OIL		1	1					N
		(B=1990.)	(C=1990.)								
2	2	171301-01640	PLUG, 22		1	1					
3	2	24341-000240	O-RING, 1AS2.0		1	1					
4	1	119600-01722	SPACER, OIL SUMP			1	1				
5	1	26106-060122	BOLT, M6X 12 PLATED		3	3					
6	1	26106-060452	BOLT, M6X 45 PLATED		20	20					

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

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Fig.10. CYLINDER HEAD



019600-01300
019260-11100
019600-11110
019620-11102

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719260-11700	HEAD ASSY, CYLINDER	1							
2	1	719600-11700	HEAD ASSY, CYLINDER		1						
3	1	719620-11700	HEAD ASSY, CYLINDER			1					
4	2	119260-11800	GUIDE, VALVE	6							1
5	2	121850-11860	PLUG, PT1/4	2							
6	2	27241-350000	PLUG, 35	2							
7	2	119260-11100	VALVE, INTAKE	3							
8	2	119260-11110	VALVE, EXHAUST	3							
9	2	114250-11120	SPRING, VALVE	6							
10	2	114250-11180	RETAINER, SPRING	6							
11	2	114250-11190	COTTER	6							
12	2	119260-11340	SEAL, VALVE STEM	6							
13	2	119260-11370	CAP, VALVE	6							
14	2	119620-11801	GUIDE, VALVE		6	6					1
15	2	121850-11860	PLUG, PT1/4		2	2					
16	2	27241-400000	PLUG, 40		2	2					
17	2	119620-11100	VALVE, INTAKE		3	3					
18	2	119620-11110	VALVE, EXHAUST		3	3					
19	2	119620-11120	SPRING, VALVE		6	6					
20	2	119620-11180	RETAINER, SPRING		6	6					
21	2	101158-11190	COTTER		6	6					
22	2	124950-11340	SEAL, VALVE STEM		6	6					
22-1	2	124950-11340 (B=E07233) (C=E15989)	SEAL, VALVE STEM		3	3					K
23	2	104211-11370	CAP, VALVE		6	6					
23C	2	124160-11340 (B=E07233) (C=E15989)	SEAL, VALVE STEM		3	3					W
24	1	119600-11450	PROTECTOR, NOZZLE		3	3	3				
25	1	119600-11460	GASKET, NOZZLE		6	6	6				
26	1	22351-060012	PIN, SPRING 6.0X12		2	2	2				
27	1	119260-07900	LIFTER		2	2	2				
28	1	26106-080142	BOLT, M8X 14 PLATED		1	1	1				
29	1	26106-080142	BOLT, M8X 14 PLATED		2	2	2				

Remarks

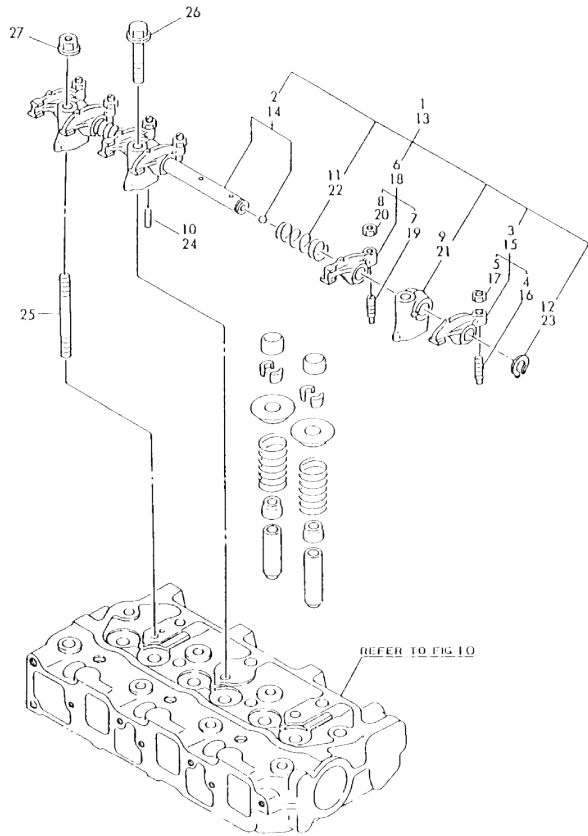
(1)REPAIR PART.

N:Old $\frac{YES}{NO}$ New, Q:Old $\frac{YES}{NO}$ New, R:Old $\frac{YES}{NO}$ New, S:Old $\frac{YES}{NO}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.11. VALVE ROCKER ARM

019260-11200
019620-11200

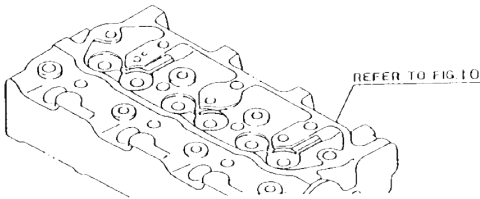
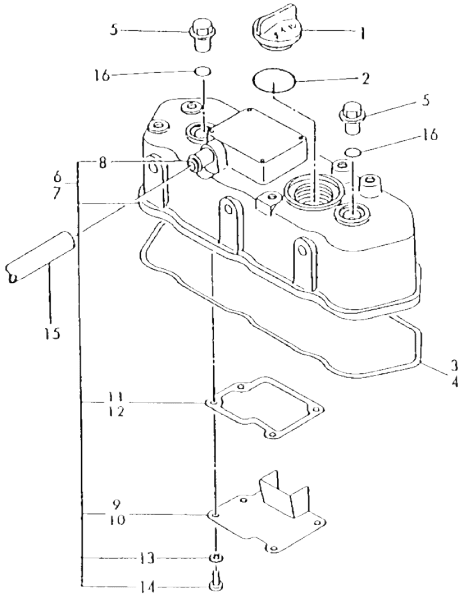


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119260-11200	SUPPORT ASSY, ARM	1							
2	2	119260-11240	SHAFT ASSY, ROCKER	1							
3	2	719260-11650	ARM ASSY, ROCKER	3							
4	3	105010-11230	SCREW, VALVE ADJUST	3							
5	3	26756-060002	NUT, LOCK M6	3							
6	2	719260-11660	ARM ASSY, ROCKER	3							
7	3	105010-11230	SCREW, VALVE ADJUST	3							
8	3	26756-060002	NUT, LOCK M6	3							
9	2	119260-11260	SUPPORT, ROCKER ARM	3							
10	2	119260-11270	SCREW	1							
11	2	119260-11280	SPRING	2							
12	2	22242-000100	RING, 10	2							
13	1	119620-11200	SUPPORT ASSY, ARM		1	1					
14	2	119620-11240	SHAFT ASSY, ROCKER		1	1					
15	2	719620-11650	ARM ASSY, ROCKER		3	3					
16	3	105010-11230	SCREW, VALVE ADJUST		3	3					
17	3	26756-060002	NUT, LOCK M6		3	3					
18	2	719620-11660	ARM ASSY, ROCKER		3	3					
19	3	105010-11230	SCREW, VALVE ADJUST		3	3					
20	3	26756-060002	NUT, LOCK M6		3	3					
21	2	119620-11260	SUPPORT, ROCKER ARM		3	3					
22	2	119620-11280	SPRING		2	2					
23	2	22242-000120	RING, 12		2	2					
24	2	26979-050162	SCREW, M5X16		1	1					
25	1	119620-11350	STUD		2	2	2				
26	1	26106-080452	BOLT, M8X 45 PLATED		1	1	1				
27	1	26366-080002	NUT, M8		2	2	2				

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Fig.12. BONNET

019241-03100
019643-03100
019250-11310
019610-11300
019247-93100
019647-93100
019647-93110



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	124160-01751	COVER, FILLER	1	1	1					
2	1	121420-01760	O-RING	1	1	1					
2-1	1	24311-000320	O-RING, 1AP32.0	1	1	1				N	
3	1	119260-11310	GASKET, BONNET	1							
4	1	119620-11310	GASKET, BONNET		1	1					
5	1	124160-11360	KNOB	2	2	2					
6	1	719260-11520	BONNET ASSY, HEAD	1							
7	1	719620-11520	BONNET ASSY, HEAD		1	1					
8	2	119620-11390	JOINT	1	1	1					
9	2	119260-03020	PLATE, SHELTER	1							
10	2	119620-03020	PLATE, SHELTER		1	1					
11	2	119260-03030	GASKET	1							
11-1	2	119260-03031	GASKET	1						N	
12	2	119620-03030	GASKET		1	1					
12-1	2	119620-03031	GASKET		1	1				N	
13	2	22217-050000	WASHER, SPRING 5	4	4	4					
14	2	26557-050102	SCREW, M5X10	4	4	4					
15	1	23065-120800	PIPE, 12X 800	1	1	1					
16	1	24311-000120	O-RING, 1AP12.0	2	2	2					

Fig.13. AIR CLEANER

This technical drawing shows an exploded view of a mechanical assembly. The components are numbered as follows:

- 1**: A cylindrical housing or bellows assembly with a flange on one end and a mounting bracket on the other.
- 2**: A central shaft or piston rod with a threaded section and a flange.
- 3**: A small cylindrical component, possibly a seal or bushing, located between parts 1 and 2.
- 4**: A circular flange or end plate with a central hole and a locking mechanism.
- 5**: A small circular washer or spacer.
- 6**: A small cylindrical component, possibly a seal or bushing, located between parts 2 and 4.
- 7**: A small cylindrical component, possibly a seal or bushing, located between parts 2 and 4.

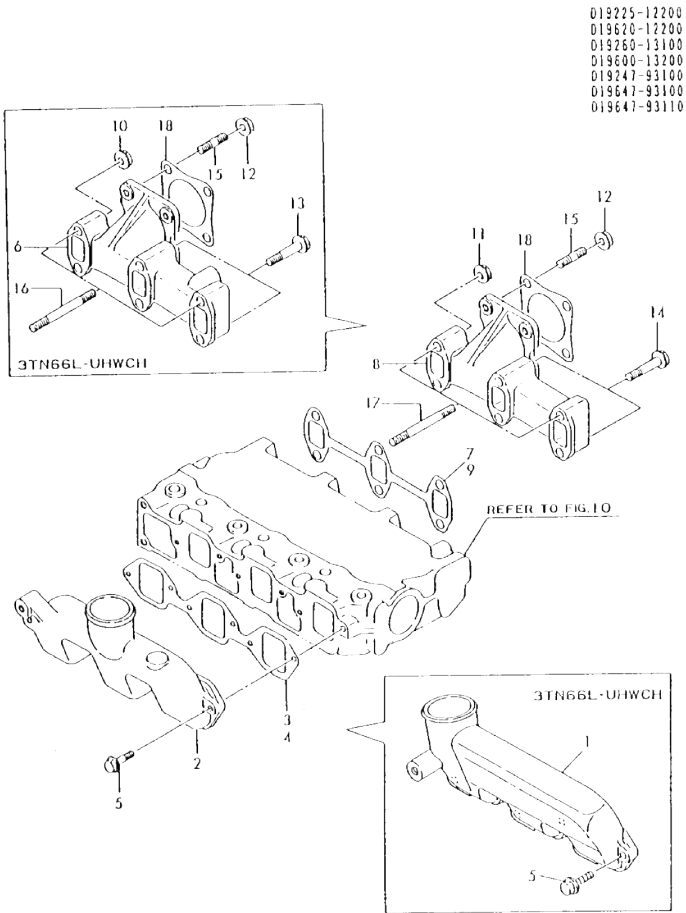
The diagram illustrates the assembly sequence and the relative positions of the parts. Callout boxes provide detailed views of specific components: the top-left box shows a detail of part 1, and the bottom-right box shows a detail of part 1 with a locking mechanism.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	171033-12500	CLEANER ASSY, AIR	1	1	1					
1-1	1	121465-12500	CLEANER ASSY, AIR (C=E18586)			1					R
2	2	171033-12510	ELEMENT	1	1	1					
2-1	2	121465-12510	ELEMENT (C=E18586)				1				R
3	2	171033-12540	CASE ASSY, CLEANER	1	1	1					
3-1	2	121465-12650	CASE ASSY (C=E18586)			1					R
4	2	171033-12560	PAN ASSY, DUST	1	1	1					
4-1	2	121465-12660	PAN, DUST (C=E18586)			1					R
5	2	124064-12680	BOLT	1	1	1					
6	2	124064-12690	WASHER		1	1					
7	2	121465-12700	RETAINER, ELEMENT	1	1	1					

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

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Fig.14. SUCTION & EXHAUST MANIFOLD



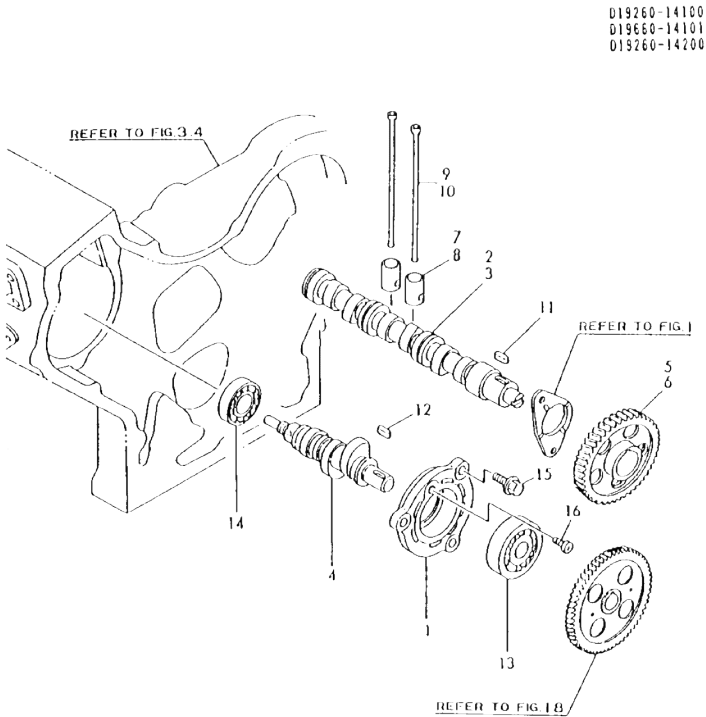
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119260-12100	MANIFOLD, AIR INTAKE	1							
2	1	119620-12101	MANIFOLD, AIR INTAKE		1	1					
3	1	119260-12110	GASKET, MANIFOLD	1							
3-1	1	119260-12111	GASKET, MANIFOLD	1						N	
4	1	119620-12110	GASKET, MANIFOLD		1	1					
4-1	1	119620-12111	GASKET, MANIFOLD		1	1				N	
5	1	26106-060202	BOLT, M6X 20 PLATED	4	6	6					
6	1	119260-13100	MANIFOLD, EXHAUST	1							
7	1	119260-13110	GASKET	1							
8	1	119600-13100	MANIFOLD, EXHAUST		1	1					
9	1	119620-13110	GASKET		1	1					
10	1	26366-060002	NUT, M6	2							
11	1	194990-22050	NUT, M8		2	2					
12	1	194990-22050	NUT, M8	4	4	4					
13	1	26106-060352	BOLT, M6X 35 PLATED	4							
14	1	26106-080402	BOLT, M8X 40 PLATED		4	4					
15	1	26216-080222	STUD, M8X 22	4	4	4					
16	1	26216-060402	STUD, M6X 40	2							
17	1	26216-080552	STUD, M8X 55		2	2					
18	1	121000-13200	GASKET, SILENCER	1	1	1					

(A)=3TN66L-UHW
(B)=3TNA68L-UHW
(C)=3TNA72L-UHW
(D)=
(E)=
(F)=

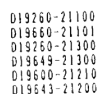
N:Old $\frac{YES}{NO}$ New, Q:Old $\frac{YES}{NO}$ New, R:Old $\frac{YES}{NO}$ New, S:Old $\frac{YES}{NO}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change

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Fig.15. CAMSHAFT



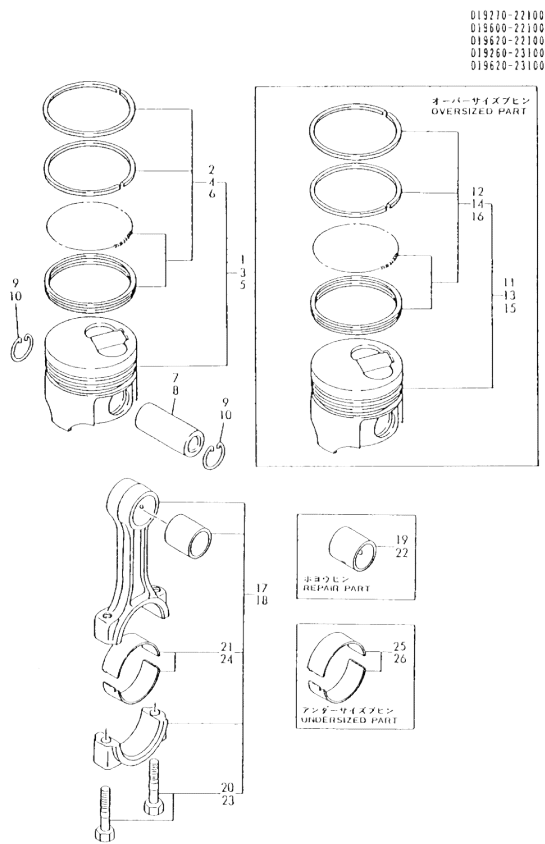
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119660-01821	BEARING, FUEL CAM	1	1	1					
2	1	119260-14010	CAMSHAFT	1							
3	1	119620-14010	CAMSHAFT		1	1					
4	1	119660-14092	CAMSHAFT	1	1	1					
5	1	119260-14100	GEAR, CAMSHAFT	1							
6	1	119620-14100	GEAR, CAMSHAFT		1	1					
7	1	119260-14200	TAPPET	6							
8	1	119620-14200	TAPPET		6	6					
9	1	119260-14400	ROD, PUSH	6							
10	1	119620-14400	ROD, PUSH		6	6					
11	1	22512-040120	KEY, 4X 12	1	1	1					
12	1	22512-040120	KEY, 4X 12	1	1	1					
13	1	24101-062034	BEARING, BALL 6203	1	1	1					
14	1	24102-063034	BEARING, BALL 6303U	1	1	1					
15	1	26106-060162	BOLT, M6X 16 PLATED	3	3	3					
16	1	26587-080102	SCREW, M8X10	1	1	1					



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

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Fig.17. PISTON & CONNECTING ROD

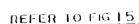


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119270-22090	PISTON ASSY	3							
1-1	1	119270-22091	PISTON ASSY	3						N	
(A=*1987.07)											
2	2	719270-22500	RING SET, PISTON	3							
2-1	2	719270-22501	RING SET, PISTON	3						N	
(A=*1987.07)											
3	1	119600-22091	PISTON ASSY		3						
3-1	1	119600-22092	PISTON ASSY		3					N	
(B=E07233)											
4	2	719600-22501	RING SET, PISTON		3						
4-1	2	719630-22502	RING SET, PISTON		3					N	
(B=E07233)											
5	1	119620-22090	PISTON ASSY				3				
6	2	719620-22500	RING SET, PISTON				3				
7	1	119260-22300	PIN, PISTON		3						
8	1	119620-22300	PIN, PISTON			3	3				
9	1	105225-22400	CIRCLIP		6						
10	1	22252-000210	RING, 21		6	6					
11	1	719270-22820	PISTON ASSY, 0.25 OS		3						1
12	2	719270-22540	RING SET, 0.25 OS		3						1
13	1	719600-22820	PISTON ASSY, 0.25 OS			3					1
14	2	719600-22540	RING SET, 0.25 OS			3					1
15	1	719620-22820	PISTON ASSY, 0.25 OS				3				1
16	2	719620-22540	RING SET, 0.25 OS				3				1
17	1	719260-23100	ROD ASSY, CONNECTING		3						
18	1	719620-23100	ROD ASSY, CONNECTING			3	3				
19	2	119260-23910	BEARING, PISTON PIN		3						2
20	2	119260-23200	BOLT, CONNECTING ROD		6						
21	2	719260-23600	BEARING, CRANK PIN		3						
22	2	119620-23910	BEARING, PISTON PIN			3	3				2
23	2	105225-23200	BOLT, CONNECTING ROD			6	6				
24	2	719620-23600	BEARING, CRANK PIN			3	3				
25	1	719260-23610	BEARING ASSY, 0.25			3					3
26	1	719620-23610	BEARING ASSY, 0.25			3	3				3

Remarks
(1)OVER-SIZE PART.
(2)REPAIR PART.
(3)UNDER-SIZE PART.

N:Old $\frac{H_{10}}{10}$ New, Q:Old $\frac{H_{10}}{10}$ New, R:Old $\frac{H_{10}}{10}$ New, S:Old $\frac{H_{10}}{10}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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REFER TO FIG 3.4



No.	Lev.	Parts No.	Description	(A)=3TN66L-UHW (B)=3TN68L-UHW (C)=3TN72L-UHW			(D)= (E)= (F)=			I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119660-25022	RETAINER	1	1	1					
2	1	119660-25052	SHAFT, IDLE	1	1	1					
3	1	119260-25100	GEAR ASSY, IDLE	1							
4	2	119620-25912	BUSH	1							1
5	1	119620-25102	GEAR ASSY, IDLE		1	1					
6	2	119620-25912	BUSH		1	1					1
7	1	22242-000200	RING, 20	1	1	1					
8	1	26106-060122	BOLT, M6X 12 PLATED	3	3	3					
9	1	119260-25900	GEAR, PUMP	1							
10	1	119660-25902	GEAR, PUMP		1	1					

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

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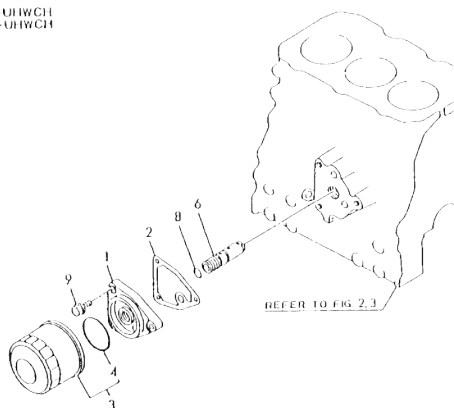
Fig.19. LUB.OIL PUMP

3TN66L-UHWCII

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

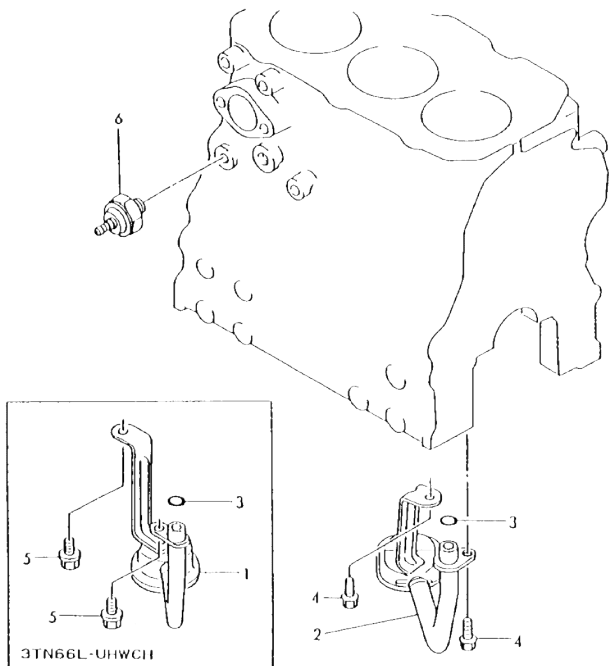
Fig.20. LUB.OIL STRAINER

3TNA68L-UHWCH
3TNA72L-UHWCH



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

019260-35220
019600-35200
019600-39100

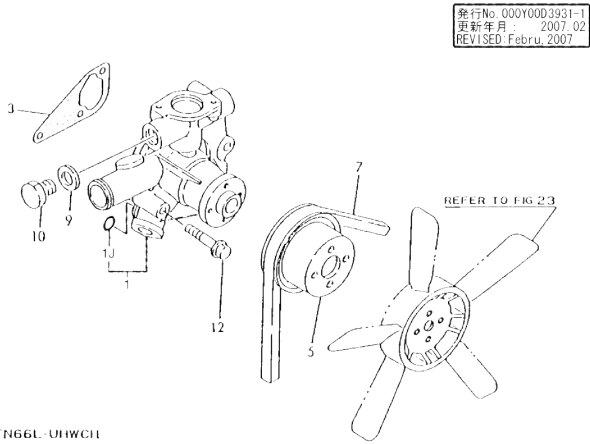


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119260-35081	PIPE, OIL INLET	1							
2	1	119600-35091	PIPE ASSY, OIL INLET		1	1					
3	1	24311-000120	O-RING, 1AP12.0	1	1	1					
4	1	26106-060102	BOLT, M6X 10 PLATED		2	2					
5	1	26106-060122	BOLT, M6X 12 PLATED	2							
6	1	124160-39450	SWITCH, 0.5KG	1	1	1					

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

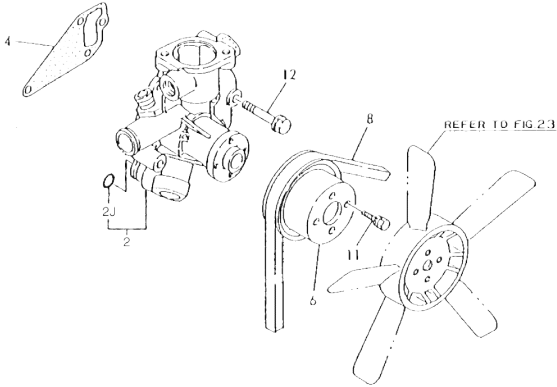
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Fig.22. COOLING WATER PUMP



3TN66L-UHWC1

3TN66L-UHWC1
3TN66L-UHWC1

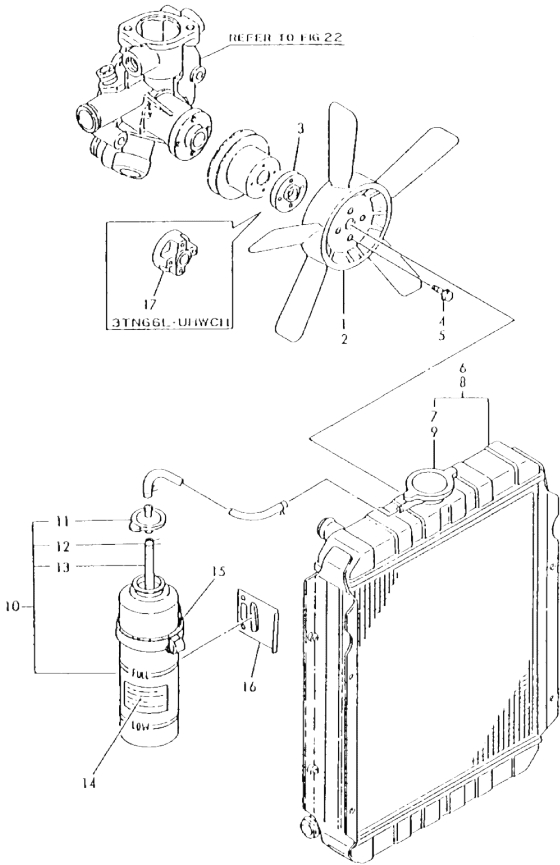


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119260-42000	PUMP ASSY, WATER	1							
1-1	1	119260-42001	PUMP ASSY, WATER	1						N	
(A=1990.06)											
1J	2	119225-42320	O-RING	1							
2	1	119660-42003	PUMP ASSY, WATER		1	1					
2-1	1	119660-42004	PUMP ASSY, WATER		1	1				N	
(B=1990.01) (C=1990.01)											
2J	2	119620-42320	O-RING		1	1					
3	1	119260-42020	GASKET, WATER PUMP	1							
4	1	119620-42020	GASKET, WATER PUMP		1	1					
5	1	119620-42350	V-PULLEY		1						
6	1	119660-42350	V-PULLEY		1	1					
7	1	104514-42780	V-BELT, HM33	1							
8	1	119620-42291	V-BELT, FM34.5		1	1					
8-1	1	119650-42291	V-BELT, 35		1	1				N	
(B=E05505) (C=E15989)											
9	1	23414-160021	GASKET, 16X1.0	1							
10	1	23887-160002	PLUG, 16	1							
10-1	1	121450-42450	PLUG, M16	1						N	
(A=1987.04)											
11	1	26014-060122	BOLT, M6X 12		4	4				Z	
(B=E0000) (C=E0000)											
12	1	26106-080452	BOLT, M8X 45 PLATED	3	4	4					

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Fig.23. RADIATOR & FAN

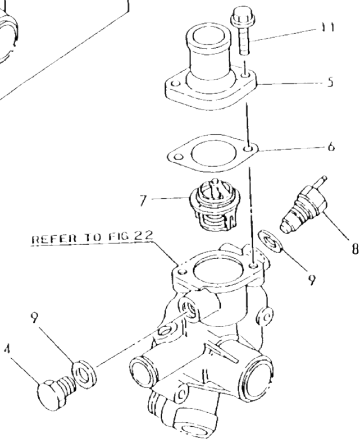
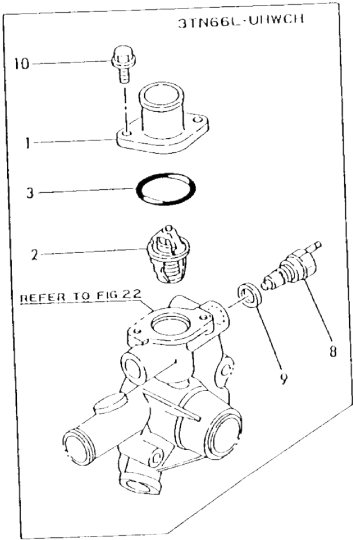
013247-42300
013645-44400
013241-93100
013641-93100
013647-93110



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	121023-44740	FAN, COOLING	1							
2	1	124700-44740	FAN, COOLING 5X310		1	1					
3	1	124574-44761	SPACER, FAN		1	1					
4	1	26106-060352	BOLT, M6X 35 PLATED	4							
5	1	26106-060202	BOLT, M6X 20 PLATED		4	4					
6	1	119260-44500	RADIATOR	1							
7	2	123682-44210	CAP, RADIATOR	1							
8	1	171002-44502	RADIATOR		1	1					
9	2	123682-44210	CAP, RADIATOR		1	1					
10	1	121450-44510	TANK ASSY, SUB	1	1	1					
11	2	121450-44530	CAP	1	1	1					
12	2	124450-44560	RETAINER	1	1	1					
13	2	23065-070180	PIPE, 7X 180	1	1	1					
14	1	121470-44540	LABEL, SUB-TANK	1	1	1					
14-1	1	121470-44540	LABEL, SUB-TANK			1					Z
(C=EXXX)											
15	1	124450-44550	BAND	1	1	1					
16	1	121256-44600	BRACKET, SUB TANK	1	1	1					
17	1	171353-44760	SPACER, FAN	1							

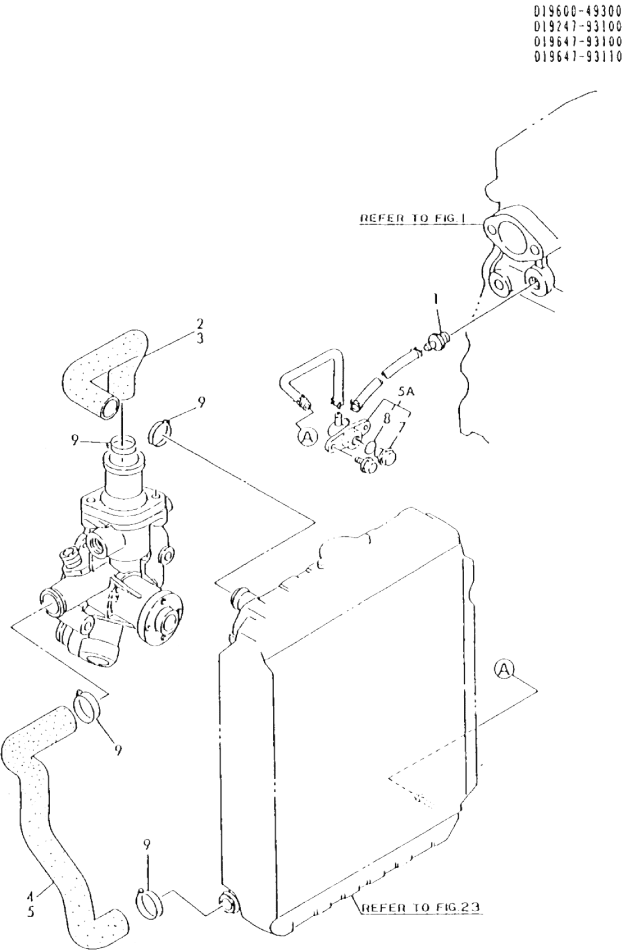
Fig.24. THERMOSTAT

019260-49200
019600-49200
019260-49600



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119260-49530	COVER, THERMOSTAT	1							
2	1	119260-49800	THERMOSTAT, 71	1							
3	1	24321-000350	O-RING, 1AG35.0	1							
4	1	121450-42450	PLUG, M16		1	1					
5	1	129350-49530	COVER, THERMOSTAT		1	1					
6	1	129350-49540	GASKET		1	1					
6-1	1	129350-49541	GASKET		1	1					N
		(B=*1990.01)	(C=*1990.01)								
7	1	129350-49800	THERMOSTAT, 71		1	1					
8	1	121250-44901	SWITCH, 110		1	1	1				
9	1	124465-44950	GASKET, 16		1	2	2				
10	1	26106-060182	BOLT, M6X 18 PLATED		2						
11	1	26106-080202	BOLT, M8X 20 PLATED			2	2				

Fig.25. COOLING WATER LINE

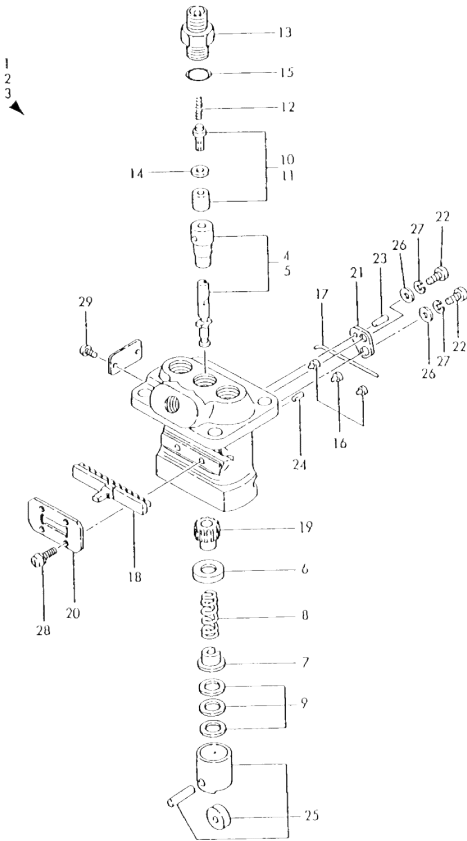


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	121550-49111	JOINT, PT1/4	1	1	1					
2	1	119288-49010	PIPE, WATER	1							
3	1	119688-49010	PIPE, WATER		1	1					
4	1	119280-49020	PIPE, WATER		1						
5	1	119645-49020	PIPE, WATER			1	1				
5A	1	121450-49110	COCK ASSY, 3-WAY	1	1	1					W
(A=*1988,06) (B=*1988,06) (C=E21755)											
7	2	121250-49121	PLUG, DRAIN	1	1	1					
8	2	24311-000160	O-RING, 1AP16.0	1	1	1					
9	1	23010-038000	CLAMP, 38	4	4	4					

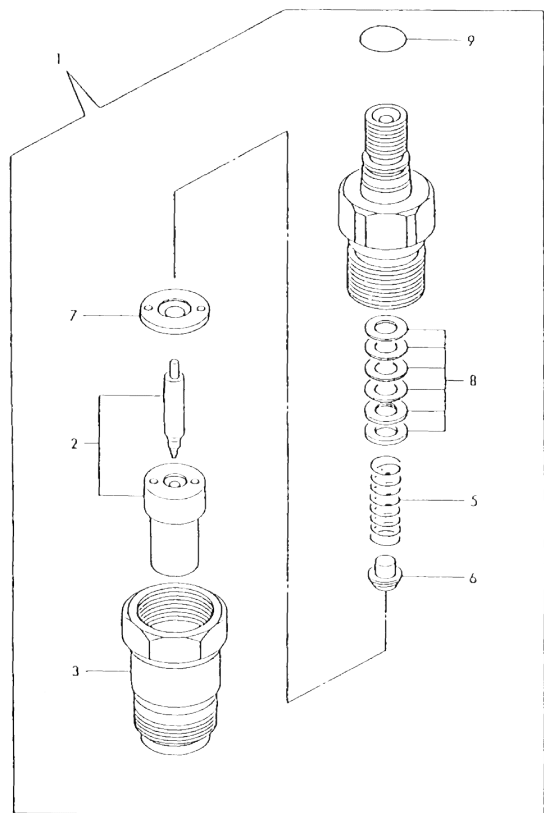
OCD10-M39301

Fig.26. FUEL INJECTION PUMP

019225-51100
019621-51100
019660-51100



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719225-51100	PUMP ASSY, INJECTION	1							
2	1	719660-51100	PUMP ASSY, INJECTION		1						
3	1	719621-51100	PUMP ASSY, INJECTION			1					
4	2	119225-51100	PLUNGER ASSY	3							
5	2	119620-51101	PLUNGER ASSY		3	3					
6	2	119620-51170	RETAINER, SPRING A	3	3	3					
7	2	119620-51180	RETAINER, SPRING B	3	3	3					
8	2	119620-51190	SPRING, PLUNGER	3	3	3					
9	2	119620-51250	SHIM SET	3	3	3					
10	2	119225-51300	VALVE ASSY, DELIVERY	3							
11	2	119620-51300	VALVE ASSY, DELIVERY		3	3					
12	2	105546-51330	SPRING, DELIVERY	3	3	3					
13	2	119620-51340	HOLDER, DELIVERY	3	3	3					
14	2	119620-51350	GASKET	3	3	3					
15	2	119620-51370	O-RING	3	3	3					
16	2	119620-51450	PIECE	3	3	3					
17	2	119620-51461	PIN	1	1	1					
18	2	119660-51500	RACK, CONTROL	1	1	1					
19	2	119620-51510	PINION	3	3	3					
20	2	119660-51530	RETAINER, RACK	1	1	1					
21	2	119620-51650	PLATE	2	2	2					
22	2	119620-51660	SCREW	2	2	2					
23	2	119620-51670	PIN	2	2	2					
24	2	119620-51680	PIN	1	1	1					
25	2	119620-51700	TAPPET ASSY	3	3	3					
26	2	22137-040000	WASHER, 4	2	2	2					
27	2	22217-040000	WASHER, SPRING 4	2	2	2					
28	2	26022-040082	SCREW, M4X 8	4	4	4					
29	2	26587-040102	SCREW, M4X10	2	2	2					



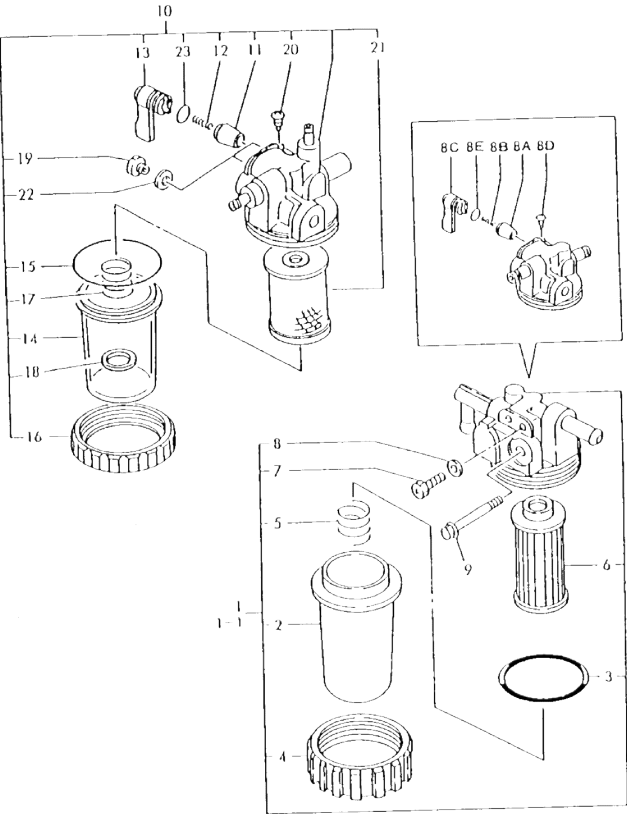
019620-53100

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719620-53100	VALVE ASSY,INJECTION	3	3	3					
2	2	119620-53000	VALVE ASSY,INJECTION	3	3	3					
3	2	119620-53080	NUT, NOZZLE	3	3	3					
5	2	119620-53120	SPRING, NOZZLE	3	3	3					
6	2	114250-53130	SEAT, SPRING	3	3	3					
7	2	119620-53140	SPACER, VALVE STOP	3	3	3					
8	2	114250-53400	SHIM SET	3	3	3					
9	2	129155-61830	O-RING, S10	3	3	3					

OCD10-M39301

Fig.28. FUEL STRAINER

D19260-55100
D19247-93100
D19647-93100
D19647-93110



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119225-55600	FILTER ASSY, FUEL	1	1	1					
1-1	1	171059-55600	FILTER ASSY, FUEL (C=E18586)			1				N	
2	2	121254-55510	COVER	1	1	1					
3	2	102103-55520	O-RING	1	1	1					
4	2	110250-55610	RING, RETAINING	1	1	1					
5	2	121250-55620	SPRING	1	1	1					
6	2	124550-55700	FILTER, FUEL L=90	1	1	1					
7	2	101720-55750	PLUG, 6	2	2	2					
8	2	23418-060000	GASKET, 6X1.0	2	2	2					
8A	2	104200-55321	VALVE, TAPER (C=E18586)			1				W	
8B	2	104200-55330	SPRING, VALVE (C=E18586)			1				W	
8C	2	104200-55341	HANDLE (C=E18586)			1				W	
8D	2	104200-55750	SCREW, M4 (C=E18586)			1				W	
8E	2	24311-240100	O-RING, 1AP10A (C=E18586)			1				W	
9	1	26106-080652	BOLT, M8X 65 PLATED	1	1	1					
9-1	1	26014-080702	BOLT, M8X 70 (A=*1988.06) (B=*1988.06)	1	1					N	
10	1	121257-55700	SEPARATOR, WATER	1	1	1					
11	2	104200-55321	VALVE, TAPER	1	1	1					
12	2	104200-55330	SPRING, VALVE	1	1	1					
13	2	104200-55341	HANDLE	1	1	1					
14	2	121254-55510	COVER	1	1	1					
15	2	102103-55520	O-RING	1	1	1					
16	2	110250-55610	RING, RETAINING	1	1	1					
17	2	121257-55720	SPRING	1	1	1					
18	2	121257-57731	FLOAT	1	1	1					M
18-1	2	121257-55731	FLOAT	1	1	1					
19	2	101720-55750	PLUG, 6	2	2	2					
20	2	104200-55750	SCREW, M4	1	1	1					
21	2	171081-55910	SCREEN	1	1	1					
22	2	23418-060000	GASKET, 6X1.0	2	2	2					
23	2	24311-240100	O-RING, 1AP10A	1	1	1					

N:Old $\frac{YRS}{100}$ New, Q:Old $\frac{HRS}{100}$ New, R:Old $\frac{YRS}{100}$ New, S:Old $\frac{HRS}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.29. FUEL INJECTION LINE

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	129150-59120	RETAINER, PIPE	1	1	1					
2	2	129150-59130	BOLT, M4X12	2	2	2					
3	1	119260-59810	PIPE ASSY, INJECTION	1							
3-1	1	119225-59810 (A=1987.09)	PIPE ASSY, INJECTION	1						N	
4	1	119620-59810	PIPE ASSY, INJECTION		1	1					
4-1	1	119620-59811 (B=E07233) (C=E15989)	PIPE ASSY, INJECTION		1	1				N	
5	1	119260-59820	PIPE ASSY, INJECTION	1							
6	1	119620-59820	PIPE ASSY, INJECTION		1	1					
6-1	1	119620-59821 (B=E07233) (C=E15989)	PIPE ASSY, INJECTION		1	1				N	
7	1	119260-59830	PIPE ASSY, INJECTION	1							
8	1	119620-59830	PIPE ASSY, INJECTION		1	1					
8-1	1	119620-59831 (B=E07233) (C=E15989)	PIPE ASSY, INJECTION		1	1				N	

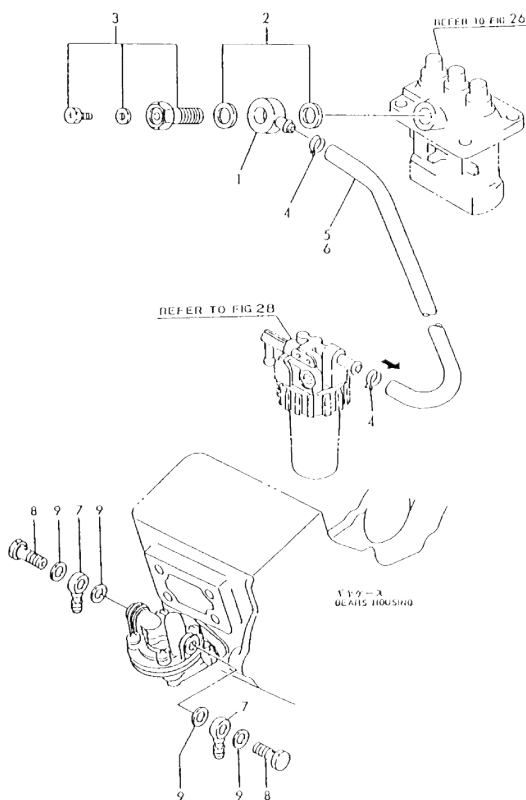
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No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129150-59020	JOINT, PIPE	1	1	1					
1-1	1	101304-59020	JOINT, PIPE 12	1	1	1					R
		(A=1987.06) (B=E07233) (C=E15989)									
2	1	104200-59170	GASKET, 12	2	2	2					
3	1	103854-59191	BOLT ASSY, JOINT M12	1	1	1					
4	1	124766-59050	CLIP, HOSE 12	2	2	2					
4-1	1	124066-59100	CLIP, HOSE 8			2					S
		(C=E18586)									
5	1	121250-59080	PIPE, FUEL D12X180		1	1					
5-1	1	105225-59100	PIPE, FUEL RETURN			1					S
		(C=E18586)									
6	1	124767-59080	PIPE, FUEL		1						
7	1	104264-59030	JOINT, PIPE 8			2					W
		(C=E18586)									
8	1	105582-59150	BOLT, PIPE JOINT			2					W
		(C=E18586)									
9	1	23414-080012	GASKET, 8X1.0			4					W
		(C=E18586)									

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

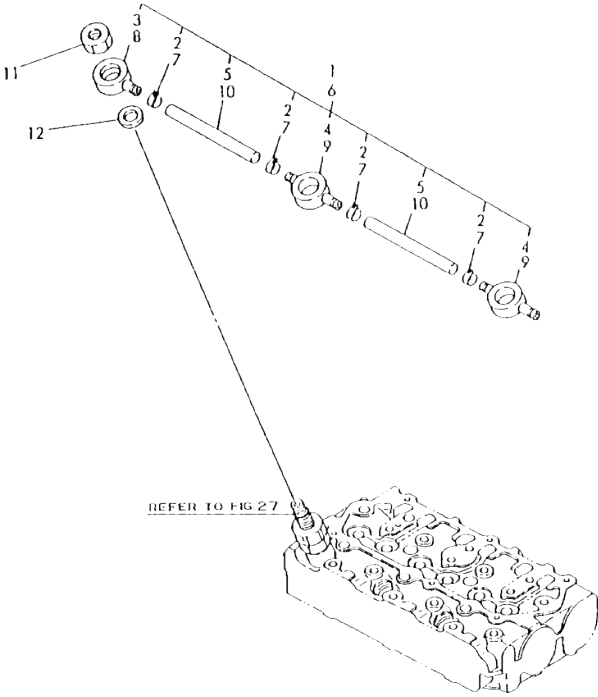
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Fig.31. FUEL RETURN LINE

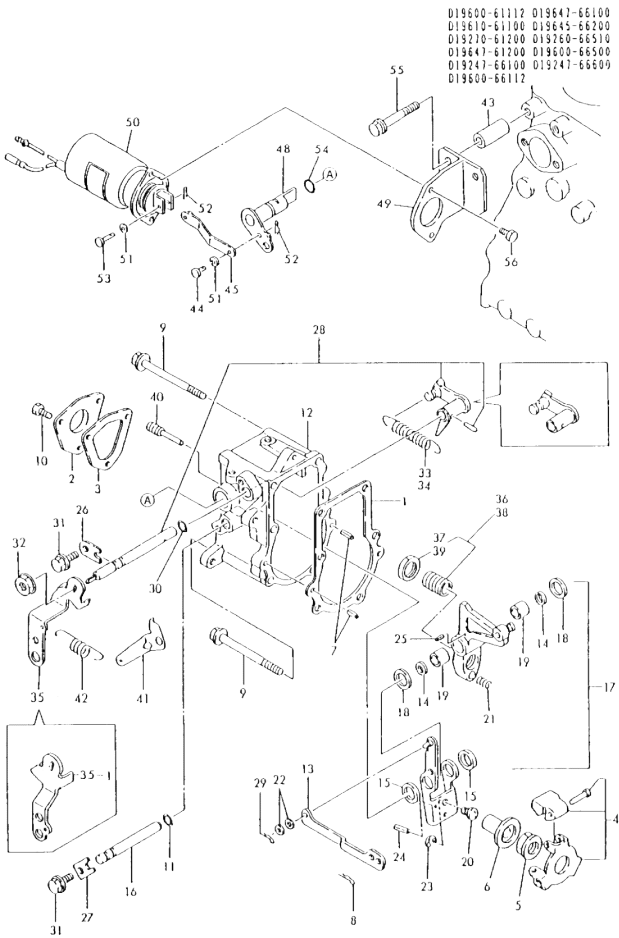
019260-59300
019620-59300



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119260-59540	PIPE ASSY, RETURN	1							
2	2	124066-59100	CLIP, HOSE 8	4							
3	2	119260-59520	JOINT	1							
4	2	119260-59530	JOINT	2							
5	2	119260-59550	PIPE, FUEL	2							
6	1	119620-59540	PIPE ASSY, FUEL		1	1					
7	2	124066-59100	CLIP, HOSE 8	4	4						
8	2	129155-59520	JOINT	1	1						
8-1	2	119260-59520	JOINT	1	1					N	
9	2	129155-59530	JOINT		2	2					
9-1	2	119260-59530	JOINT		2	2				N	
10	2	105025-59550	PIPE, FUEL RETURN		2	2					
11	1	119620-59700	NUT, NOZZLE	3	3	3					
12	1	23414-140000	GASKET, 14X1.0	3	3	3					

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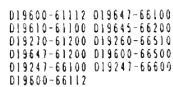
Fig.32. GOVERNOR



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119660-61051	GASKET	1	1	1					
1-1	1	119660-61052	GASKET	1	1	1				N	
(A=*1990.01) (B=*1990.01) (C=*1990.01)											
2	1	119660-61060	COVER, GOVERNOR CASE	1	1	1					
3	1	119660-61070	GASKET	1	1	1					
3-1	1	119660-61071	GASKET	1	1	1				N	
(A=*1990.01) (B=*1990.01) (C=*1990.01)											
4	1	119600-61200	WEIGHT ASSY, GOVERNOR	1	1	1					
5	1	119660-61300	NUT	1	1	1					
6	1	119660-61341	SLEEVE	1	1	1					
7	1	22351-040010	PIN, SPRING 4.0X10	2	2	2					
8	1	22360-060000	PIN, SNAP 6	1	1	1					
9	1	26106-060702	BOLT, M6X 70 PLATED	6	6	6					
10	1	26116-050102	BOLT, M5X 10 PLATED	3	3	3					
11	1	129155-51280	O-RING, S6	1	1	1					
12	1	119660-61013	CASE, GOVERNOR	1	1	1					
13	1	119285-61120	LINK, NO MARK	1	1	1					
13-1	1	119660-61121	LINK, NO MARK			1				N	
(C=E0000)											
14	1	119660-61460	SHIM SET	1	1	1					
15	1	129155-61480	SPACER ASSY	2	2	2					
16	1	119660-61491	SHAFT	1	1	1					
17	1	119600-61500	LEVER ASSY, GOVERNOR	1	1	1					
18	2	174307-51700	SHIM SET	2	2	2					
19	2	129155-61530	BUSH	2	2	2					
20	2	119600-61540	SHIFTER	1	1	1					
21	2	119600-61650	SPRING, STARTING	1	1	1					
22	2	22117-040000	WASHER, 4	1	1	1					
22-1	2	22117-040000	WASHER, 4	2	2	2				K	
(A=*1987.09) (B=E07233) (C=E15989)											
23	2	22272-000040	RING, E- 4	1	1	1					
24	2	22351-020004	PIN, SPRING 2.0X 4	1	1	1					
25	2	22351-030014	PIN, SPRING 3.0X14	1	1	1					
26	1	119600-61900	RETAINER, SHAFT	1	1	1					
27	1	119660-61901	RETAINER, SHAFT	1	1	1					
28	1	119285-66090	SHAFT ASSY	1	1	1					
28-1	1	119621-66091	SHAFT ASSY			1				N	
(C=E0000)											
29	1	22360-040000	PIN, SNAP 4	1	1	1					
30	1	24341-000070	O-RING, 1AS7.0	1	1	1					
31	1	26106-060102	BOLT, M6X 10 PLATED	2	2	2					
32	1	194990-22050	NUT, M8	1	1	1					
33	1	119260-66010	SPRING, REGULATOR	1							
34	1	119600-66020	SPRING, REGULATOR		1	1					
35	1	119640-66051	HANDLE, REGULATOR	1	1	1					
35-1	1	119621-66051	LEVER, REGULATOR			1				N	
(C=E0000)											
36	1	119260-66720	ANGLEICH ASSY	1							
37	2	129155-61590	NUT, LOCK	1							
38	1	119600-66700	ANGLEICH ASSY		1	1					
39	2	129155-61590	NUT, LOCK	1							

N:Old, New, Q:Old, New, R:Old, New, S:Old, New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
++ CONTINUE ++
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Fig.32. GOVERNOR



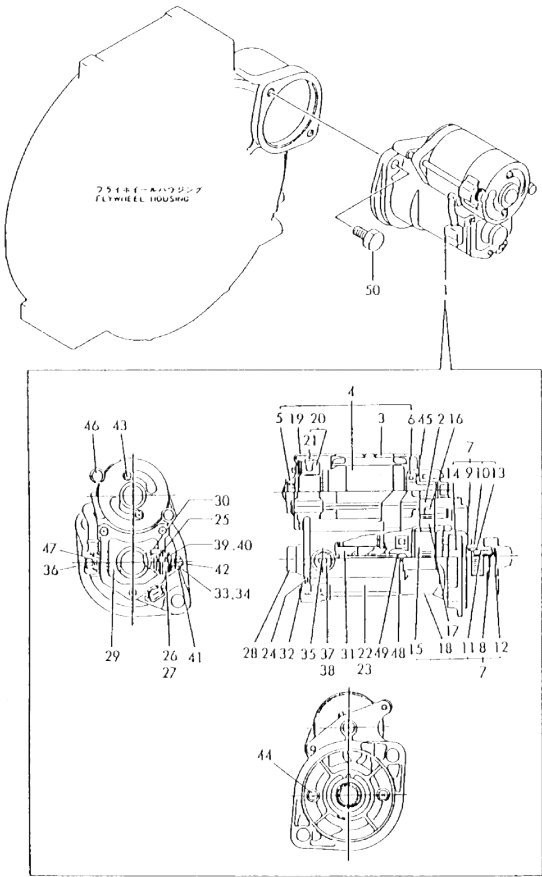
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[illegible]

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119260-66540	LIMITER ASSY, FUEL	1							
2	1	119600-66530	LIMITER ASSY, FUEL		1	1					
3	1	129100-61930	NUT, CAP	1	1	1					
4	1	124772-66750	NUT, LOCK M12		1	1	1				
5	1	43400-500450	SEAL WASHER 12	2	2	2					
6	1	135210-61090	LEAD	1	1	1					
7	1	124550-66370	NUT, M6	1	1	1					
8	1	121575-66830	SCREW	1	1	1					
9	1	119600-66840	NUT, CAP	1	1	1					
10	1	22451-060000	WIRE, 0.6	1	1	1					
11	1	26116-060304	BOLT, M6X 30 PLATED	1	1	1					
12	1	26756-060002	NUT, LOCK M6	1	1	1					
13	1	43400-500400	SEAL WASHER 6	2	2	2					

Fig.34. STARTING MOTOR(COMPONENT PARTS

019640-11100



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119620-77011	STARTER	1	1	1					
2	2	X0280630011	RETAINER	1	1	1					
3	2	X0281003751	YOKE ASSY	1	1	1					
4	2	X0282001531	ARMATURE ASSY	1	1	1					
5	3	X9491001360	BEARING	1	1	1					
6	3	X9491001860	BALL BEARING	1	1	1					
7	2	X0283005050	CLUTCH, STARTER	1	1	1					
8	3	X0280210230	NUT	1	1	1					
9	3	X0283270140	RETAINER	1	1	1					
10	3	X0283715030	PINION, STARTER	1	1	1					
11	3	X0283810040	SHAFT	1	1	1					
12	3	X9490721080	RING	1	1	1					
13	3	X9491703371	SPRING, COIL	1	1	1					
14	3	X9491704260	SPRING	1	1	1					
15	3	121120-77930	CASE ASSY, STARTER	1	1	1					
16	2	X0283060061	ROLLER	5	5	5					
17	2	X0283711420	PINION	1	1	1					
18	2	X0284004910	HOUSING, STARTER	1	1	1					
19	2	X0285040631	FRAME ASSY	1	1	1					
20	2	X0285100460	HOLDER ASSY, BRUSH	1	1	1					
21	3	X9491730461	SPRING	4	4	4					
22	2	X0534006460	SWITCH, MAGNETIC	1	1	1					
23	3	X0534040320	GASKET	1	1	1					
24	3	X0534490120	BUSH	1	1	1					
25	3	X0534490120	BUSH	1	1	1					
26	3	X0534490230	BUSH	1	1	1					
27	3	X0534490230	BUSH	1	1	1					
28	3	X0535050620	COVER	1	1	1					
29	3	X0535130241	PLATE (B)	1	1	1					
30	3	X0535130320	PLATE (A)	1	1	1					
31	3	X0536600401	PLUNGER	1	1	1					
32	3	X9151005141	BOLT W/WASHER	3	3	3					
33	3	X9490170900	WASHER	1	1	1					
34	3	X9490170900	WASHER	1	1	1					
35	3	X9490441303	BOLT	1	1	1					
36	3	X9490441312	BOLT	1	1	1					
37	3	X9490502820	NUT	1	1	1					
38	3	X9490502820	NUT	1	1	1					
39	3	X9491402100	O-RING	1	1	1					
40	3	X9491402100	O-RING	1	1	1					
41	2	X9019008651	NUT	1	1	1					
42	2	X9025808001	WASHER	1	1	1					
43	2	X9490071810	SCREW W/WASHER	2	2	2					
44	2	X9490071970	SCREW W/WASHER	2	2	2					
45	2	X9490200710	WASHER	1	1	1					Z
(A=E18586) (B=E18586) (C=E18586)											
46	2	X9490471500	BOLT W/WASHER	2	2	2					
46-1	2	X9490423330	BOLT W/WASHER	2	2	2					N
(A=E18586) (B=E18586) (C=E18586)											
47	2	X9490561370	NUT	1	1	1					
48	2	X9491200240	BALL	1	1	1					

N:Old $\frac{100}{100}$ New, Q:Old $\frac{100}{100}$ New, R:Old $\frac{100}{100}$ New, S:Old $\frac{100}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
++ CONTINUE ++
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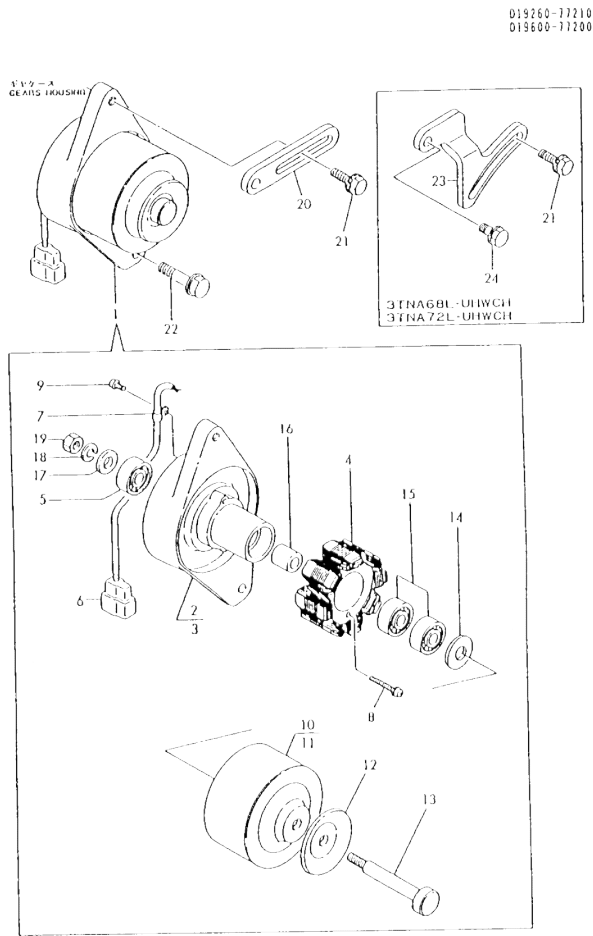
Figure 1 shows an exploded perspective view of the flywheel housing assembly. The main housing is labeled "FLYWHEEL HOUSING" and "フライホイールハウジング". A detailed view of the mounting bracket is shown to the right, with a screw labeled "50".

[illegible]

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

OCD10-M39301

Fig.35. GENERATOR(COMPONENT PARTS)



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	171301-77201	DYNAMO ASSY, 15A	1	1	1					
2	2	XM08137	PLATE ASSY	1	1	1					
3	3	XM08138	PLATE	1	1	1					
4	3	XM08180	STATOR ASSY	1	1	1					
5	3	XM27436	BALL BEARING	1	1	1					
6	3	XM17878	COUPLER	1	1	1					
7	3	XM36410	CLAMP	1	1	1					
8	3	26022-040252	SCREW, M4X25	2	2	2					
9	3	XYSPS4008	SCREW	1	1	1					
10	2	XM82184	FLYWHEEL ASSY	1	1	1					
11	3	XM82110	FLYWHEEL	1	1	1					
12	3	XM72174	PULLEY	1	1	1					
13	3	XM72664	SHAFT	1	1	1					
14	3	XM37336	WASHER	1	1	1					
15	3	XM27436	BALL BEARING	2	2	2					
16	2	106383-44720	SPACER	1	1	1					
17	2	106383-44730	WASHER	1	1	1					
18	2	22212-100000	WASHER 10,SPRING	1	1	1					
19	2	26716-100002	NUT, M10	1	1	1					
20	1	121450-77330	ADJUSTER	1							
21	1	26014-080252	BOLT, M8X 25	1	1	1					
22	1	26106-100402	BOLT, M10X 40 PLATED	1	1	1					
23	1	119600-77330	ADJUSTER	1	1						
24	1	26106-080182	BOLT, M8X 18 PLATED	1	1						



N:Old $\xrightarrow{\text{Yes}} \text{New, Q:Old} \xrightarrow{\text{No}} \text{New, R:Old} \xrightarrow{\text{Yes}} \text{New, S:Old} \xrightarrow{\text{No}} \text{New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change}$
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Fig.37. TOOLS

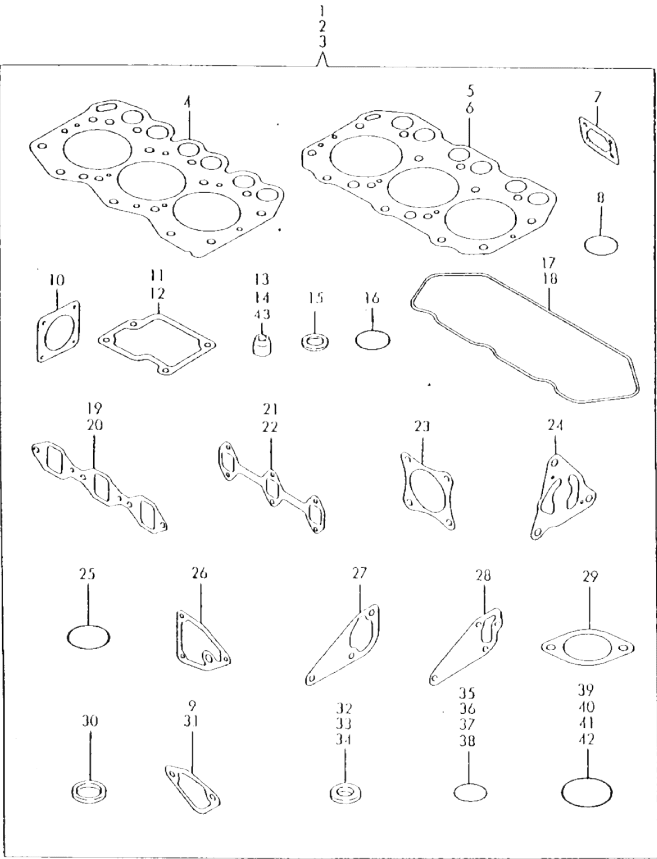
This diagram shows the components of a portable electronic device, likely a radio or communication unit, in an exploded view. The components are numbered as follows:

- 1**: The main rectangular carrying case with a handle and a latch.
- 2**: A cylindrical component, possibly a battery or a speaker, with a pointed end.
- 3**: A small rectangular component, likely a control panel or a small antenna.
- 4**: A small, curved component, possibly a bracket or a small antenna.
- 5**: A larger, curved component, possibly a bracket or a larger antenna.
- 6**: A long, curved component, possibly a large antenna or a carrying strap.
- 7**: A conical component, possibly a speaker or a microphone.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	171001-93100	BOX, TOOL	1	1	1					
2	2	104200-92350	DRIVER, SCREW	1	1	1					
3	2	104200-92600	BOX, TOOL	1	1	1					
4	2	28110-100120	SPANNER, 10X12	1	1	1					
5	2	28110-140170	SPANNER, 14X17	1	1	1					
6	2	28110-190220	SPANNER, 19X22	1	1	1					
7	2	28210-000140	OILER	1	1	1					

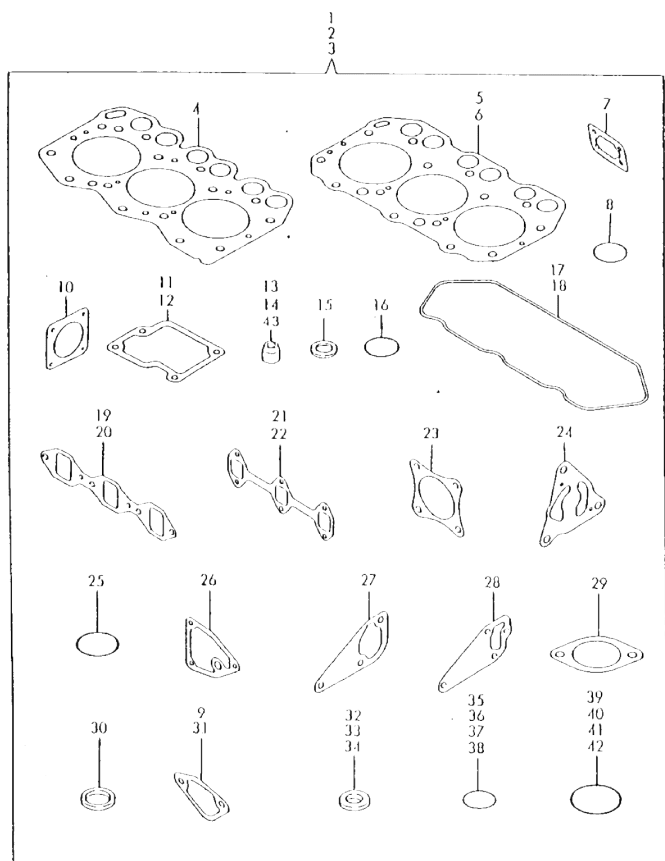
N:Old $\frac{\text{Yes}}{\text{No}}$ New. Q:Old $\frac{\text{No}}{\text{Yes}}$ New. R:Old $\frac{\text{Yes}}{\text{Yes}}$ New. S:Old $\frac{\text{No}}{\text{No}}$ New. W:Add. Z:Discontinued. F:Interchangeable by set. K:Q'ty Change

Fig.38. GASKET SET(OPTION)



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719241-92600	GASKET SET	1							
1-1	1	719241-92601	GASKET SET	1							N
(A=EXXX)											
2	1	719643-92600	GASKET SET		1						
2-1	1	719643-92601	GASKET SET		1						N
(B=EXXX)											
3	1	719642-92600	GASKET SET				1				
3-1	1	719642-92601	GASKET SET				1				N
(C=EXXX)											
4	2	119225-01340	GASKET, HEAD	1							
5	2	119656-01340	GASKET, HEAD		1						
6	2	119610-01340	GASKET, HEAD				1				
7	2	119660-01561	GASKET		1	1	1				
7-1	2	119660-01562	GASKET		1	1	1				N
(A=*1990.01) (B=*1990.01) (C=*1990.01)											
8	2	121420-01760	O-RING		1	1	1				
8-1	2	24311-000320	O-RING, 1AP32.0		1	1	1				N
(A=*1988.04) (B=*1988.04) (C=E21755)											
9	2	121520-01850	GASKET				1				
9-1	2	121520-01851	GASKET				1				N
(C=*1990.01)											
10	2	124240-01882	GASKET			1					
11	2	119260-03030	GASKET		1						
11-1	2	119260-03031	GASKET		1						N
(A=*1990.06)											
12	2	119620-03030	GASKET			1	1				
12-1	2	119620-03031	GASKET			1	1				N
(B=*1990.01) (C=*1990.01)											
13	2	119260-11340	SEAL, VALVE STEM		6						
14	2	124950-11340	SEAL, VALVE STEM			6	6				
14-1	2	124950-11340	SEAL, VALVE STEM			3	3				K
(B=E07233) (C=E15989)											
15	2	119600-11460	GASKET, NOZZLE		6	6	6				
16	2	121420-01760	O-RING		1	1	1				
16-1	2	24311-000320	O-RING, 1AP32.0		1	1	1				N
(A=*1988.04) (B=*1988.04) (C=E21755)											
17	2	119260-11310	GASKET, BONNET		1						
18	2	119620-11310	GASKET, BONNET			1	1				
19	2	119260-12110	GASKET, MANIFOLD		1						
19-1	2	119260-12111	GASKET, MANIFOLD		1						N
(A=*1990.06)											
20	2	119620-12110	GASKET, MANIFOLD			1	1				
20-1	2	119620-12111	GASKET, MANIFOLD			1	1				N
(B=*1990.04) (C=*1990.04)											
21	2	119260-13110	GASKET		1						
22	2	119620-13110	GASKET			1	1				
23	2	121000-13200	GASKET, SILENCER			1	1	1			
24	2	119660-32020	GASKET, PUMP			1	1	1			
25	2	124450-35110	O-RING			1	1	1			
26	2	119660-35112	GASKET			1	1				
26-1	2	119660-35113	GASKET			1	1				N

N:Old, W:New, Q:Old, R:New, S:Old, W:New, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
++ CONTINUE ++
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No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
			(B=*1990.01) (C=*1990.01)								
27	2	119260-42020	GASKET, WATER PUMP	1							
28	2	119620-42020	GASKET, WATER PUMP		1	1					
29	2	129350-49540	GASKET		1	1					
29-1	2	129350-49541	GASKET		1	1					N
			(B=*1990.01) (C=*1990.01)								
30	2	124465-44950	GASKET, 16	1	2						
31	2	121520-01850	GASKET	1	1	1					
31-1	2	121520-01851	GASKET	1	1	1					N
			(A=*1990.01) (B=*1990.01) (C=*1990.01)								
32	2	104200-59170	GASKET, 12		2	2					
33	2	23414-080012	GASKET, 8X1.0		4	4					
34	2	23414-140000	GASKET, 14X1.0		3	3					
35	2	24311-000120	O-RING, 1AP12.0		5	5					
36	2	24311-000160	O-RING, 1AP16.0			1	1				
37	2	24311-000180	O-RING, 1AP18.0	1							
38	2	24311-240100	O-RING, 1AP10A		1	1					
39	2	24321-000350	O-RING, 1AG35.0	1							
40	2	24341-000250	O-RING, 1AS25.0		1						
41	2	24341-000260	O-RING, 1AS26.0	1	1	1					
41-1	2	24341-000240	O-RING, 1AS24.0	1	1	1					S
			(A=*1989.01) (B=*1989.01) (C=E25840)								
42	2	102103-55520	O-RING	2	2	2					
43	2	124160-11340	SEAL, VALVE STEM		3	3					W
			(B=E07233) (C=E15989)								

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

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119260-01590	4	5
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119260-03031	12	11 -1
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119600-01600	6	1
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119600-01770	9	1 -1
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119600-22091	17	3
119600-22092	17	3 -1
119600-35091	21	2
119600-52021	5	26 -1
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119620-01620	7	3
119620-01750	6	3
119620-01800	4	6
	5	4
119620-01950	4	8
	5	7
119620-02020	2	7
	3	7
119620-02410	2	10
	3	10
119620-02450	1	12
	2	11
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119620-03020	12	10
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119620-03031	12	12 -1
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119620-11200	11	13
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119620-77820	36	9
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119656-01340	2	14
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119660-42003	22	2
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119660-61491	32	16
119660-61901	32	27
119660-77710	36	2 -1
119688-49010	25	3
119865-21600	16	12
119865-77720	36	10
121000-13200	14	18
	38	23
121023-01550	4	21
	5	22
121023-44740	23	1
121111-21501	16	10
121120-01620	6	2
121120-77930	34	15
121250-44901	24	8
121250-49121	25	7
121250-55620	28	5
121250-59080	30	5
121254-55510	28	2
		14
121256-44600	23	16
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121257-55720	28	17
121257-55731	28	18 -1
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121400-91251	36	6
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	5	2 A
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121450-44530	23	11
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	5	25
	38	9
		31
121520-01851	4	24 -1
	5	25 -1
	38	9 -1
		31 -1
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