

0CD10-M41702EN

PREFACE

1. This Parts Catalog is the 1st edition of 3TNA68,72L-UKS Diesel Engine for KIORITZ CORP..

Pub. No. : 000Y00D4172

Published : August,1991

2. Model name

Engine model	Vehicle		Vehicle made by
	Products	Model name	
3TNA68,72L-UKS	—	—	KIORITZ CORP.

Directions for the Parts Catalog.

- 1.This Parts Catalog shows both standard and optional parts.
- 2.Parts may change without prior notice.
- 3.The following is an example of the Parts Catalog format.

OCF10-G21601 29. FUEL INJECTION PUMP(W/BOOST)										
REF.	LEV.	PARTS NO.	DESCRIPTION	(A)	(B)	(C)	(D)	(E)	(F)	
1	1	729595-51390	FUEL INJECTION PUMP	1	1	1	1	1		1
1-1	1	729595-51391	FUEL INJECTION PUMP	1	1	1	1	1	N	1
		(A=E00185) (B=E00200)								
3	2	26022-060162	SCREW M 6X 16	9	9	9	9	9		
3-1	2	26022-060162	SCREW M 6X 16	4	4	4	4	4	K	
		(A=E00156) (B=E00156) (C=E00156) (D=E00156) (E=E00156)								
4	2	129470-51040	CAMSHAFT	1	1	1	1	1		
5	2	122710-51050	BEARING, ROLLER	2	2	2	2	2		
6	2	129470-51060	RETAINER	1	1	1	1	1		

Remarks

(1) BOOST COMPEMSATOR TYPE. OPTIONAL PART, TO E00155,(4JH-DT, 4JH-DTZ

① Ref. No.

The Ref. No. listed may not be in accordance with the illustration Ref. No.

(Ex.) Illustration No.

List Ref No.

1 1 (Before change) → 1-1 (After change)

For interchangeable symbols N, R and K, illustrations for new parts may be abbreviated.

② Lev. (Level)

Level indication

The numbers below indicate the level of relativity towards the main part.

1 ---- Main parts (Assembly parts)

2 ---- Sub component included in " 1 ".

3 ---- Sub component included in " 2 ".

Note) Parts that are not for sale are partially illustrated but not listed.

③ Interchangeability Symbol

When a part change takes place, one of the following interchangeability symbols is indicated beside the part.

Symbol	Interchangeability	Contents note
N	Old $\xrightarrow{\text{Yes}}$ New No $\xrightarrow{\text{No}}$ New	New Part is interchangeable for Old Part but Old Part is not interchangeable for New Part.
Q	Old $\xrightarrow{\text{No}}$ New Yes $\xrightarrow{\text{Yes}}$ New	New Part is not interchangeable for Old Part but Old Part is interchangeable for New Part.
R	Old $\xrightarrow{\text{Yes}}$ New Yes $\xrightarrow{\text{Yes}}$ New	New/ Old Parts are both interchangeable.
S	Old $\xrightarrow{\text{No}}$ New No $\xrightarrow{\text{No}}$ New	New/ Old Parts are both not interchangeable.
W		Part newly added.
Z		Part discontinued.
F		Not interchangeable by a single part but interchangeable together with related parts.
K		Changes only for used parts quantities.

④ Effective Machine No.

When a part changes, the effective Machine No. will be indicated in the (A)-(F) column.

Product Symbol	Product No.	Product Symbol	Product No.
C	Clutch No. Compressor No.	F	Machine No. (Agricultural Equip.)
D	Drive No.	M	Machine No.
E	Engine No.		

Note 1) A date may follow the symbol. (Ex.) 1996.01

Note 2) "XXXXX" and "ZZZZZ" are for parts that could not be predicted or for engine models that could not be identified.

Note 3) (A=E00185) is the E (Engine Serial Number) for the column (A) model (in this case 4JH-DT) after the parts design change.

⑤ Remarks

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

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

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5.	LUB.OIL SUMP
6.	ENGINE LIFTER
7.	CYLINDER HEAD
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9.	BONNET
10.	AIR CLEANER
11.	INTAKE MANIFOLD
12.	SILENCER
13.	EXHAUST MANIFOLD
14.	CAMSHAFT
15.	CRANKSHAFT
16.	FLYWHEEL
17.	PISTON
18.	CONNECTING ROD
19.	IDLE GEAR
20.	FUEL FEED PUMP GEAR
21.	LUB.OIL PUMP
22.	LUB.OIL DIPSTICK
23.	LUB.OIL STRAINER
24.	LUB.OIL PRESSURE SWITCH

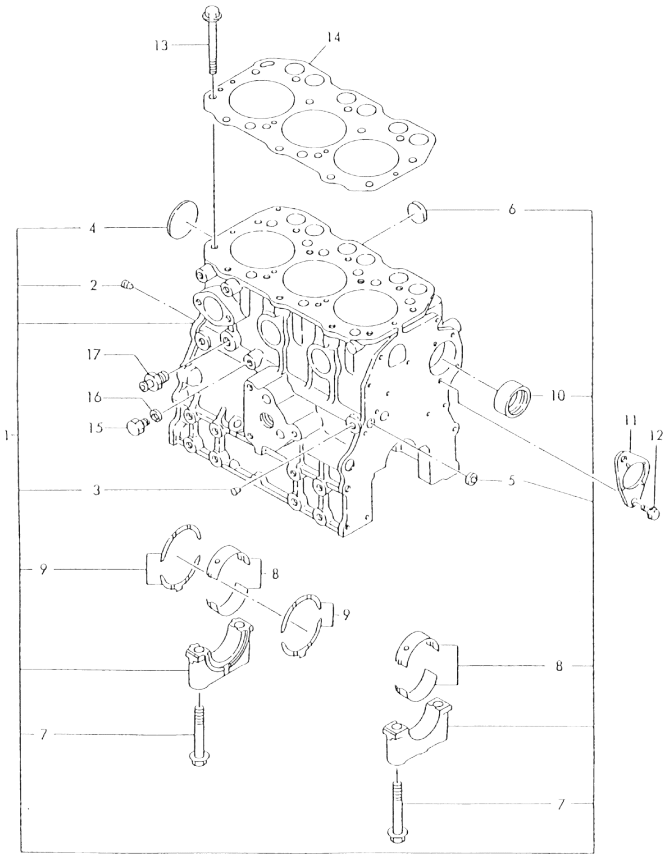
Fig. No.	Fig. Name
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26.	RADIATOR & FAN MOTOR
27.	THERMOSTAT
28.	COOLING WATER LINES
29.	FUEL INJECTION PUMP
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38.	STARTING MOTOR
39.	GENERATOR
40.	GLOW PLUG
41.	ELECTRIC PARTS
42.	STARTING MOTOR(COMPONENT PARTS
43.	GENERATOR(COMPONENT PARTS)
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45.	SPECIAL TOOL(OPTIONAL)
ENGINE 3TNA72L-UKS	
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53.	CRANKSHAFT & PISTON		
54.	LUB.OIL SYSTEM		
55.	COOLING WATER SYSTEM		
56.	FUEL INJECTION PUMP		
57.	FUEL LINE		
58.	GOVERNOR		
59.	STARTING MOTOR		
60.	GENERATOR		
61.	ELECTRIC PART		
62.	GASKET SET(OPTIONAL)		
63.	SPECIAL TOOL(OPTIONAL)		

Fig.1. CYLINDER BLOCK

019600-01100
019620-02100
019625-02200
019600-45300



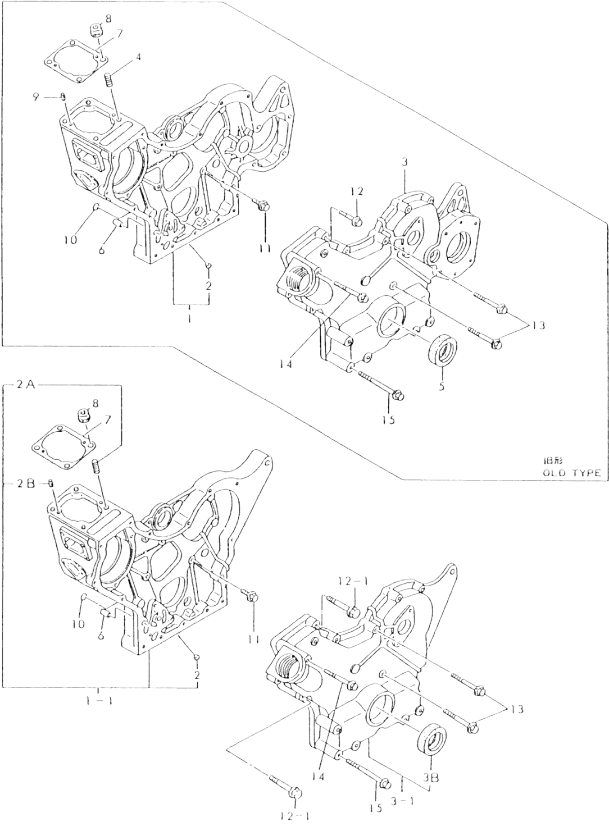
(A)=3TNA68L-UKS
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						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	
(A=E08877)											
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						Z	
(A=E0000)											
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	
(A=E0000)											
16	1	104884-59170	GASKET	1						Z	
(A=E0000)											
17	1	121550-49111	JOINT, PT1/4	1							

OCD10-M41702

Fig.2. GEAR HOUSING



019610-01200
719646-51300

OCD10-M41702 Fig.2

(A)=3TNA68L-UKS
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119600-01501	CASE ASSY, GEAR	1							
1-1	1	119610-01490	CASE ASSY, GEAR	1						F	1
(A=E08877)											
2	2	119660-01510	PLUG, 10X14	1							
2A	2	121450-01560	STUD, M8X22	4						W	
(A=E08877)											
2B	2	22351-040010	PIN, SPRING 4.0X10	2						W	
(A=E08877)											
3	1	119621-01520	COVER, GEAR CASE	1							
3-1	1	119610-01590	COVER ASSY,GEAR CASE	1						F	1
(A=*1990.05)											
3B	2	119620-01800	SEAL, OIL	1						W	
(A=*1990.05)											
4	1	121450-01560	STUD, M8X22	4						Z	
(A=E08877)											
5	1	119620-01800	SEAL, OIL	1						Z	
(A=*1990.05)											
6	1	119660-01911	PIPE, KNOCK	4							
7	1	119620-01950	SHIM SET, ADJUSTING	1							
8	1	194990-22050	NUT, M8	4							
9	1	22351-040010	PIN, SPRING 4.0X10	2						Z	
(A=E08877)											
10	1	24311-000120	O-RING, 1AP12.0	2							
11	1	26106-060162	BOLT, M6X 16 PLATED	7							
12	1	26106-060302	BOLT, M6X 30 PLATED	6							
12-1	1	26106-060302	BOLT, M6X 30 PLATED	8						F	1
(A=E08877)											
13	1	26106-060602	BOLT, M6X 60 PLATED	3							
14	1	26106-060602	BOLT, M6X 60 PLATED	1							
15	1	26106-060802	BOLT, M6X 80 PLATED	6							

Remarks
(1)Ref.No.1-1,3-1 and 12-1 are interchangeable by set.

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.3. GEAR HOUSING BLIND COVER

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

- 1**: A small rectangular plate with two mounting holes.
- 2**: A small rectangular plate with two mounting holes, similar to part 1.
- 3**: A small rectangular plate with two mounting holes, similar to parts 1 and 2.
- 4**: A circular flange with a central hole and four mounting holes.
- 5**: A circular flange with a central hole and four mounting holes, similar to part 4.
- 6**: A small rectangular plate with two mounting holes, similar to parts 1, 2, and 3.
- 7**: A rectangular plate with a central hole and four mounting holes.
- 8**: A rectangular plate with a central hole and four mounting holes, similar to part 7.
- 9**: A rectangular plate with a central hole and four mounting holes, similar to parts 7 and 8.
- 10**: A cylindrical component with a central hole and four mounting holes.
- 11**: A rectangular plate with a central hole and four mounting holes, similar to parts 7, 8, and 9.
- 12**: A small rectangular plate with two mounting holes, similar to parts 1, 2, 3, and 6.
- 13**: A small rectangular plate with two mounting holes, similar to parts 1, 2, 3, and 6.
- 14**: A small rectangular plate with two mounting holes, similar to parts 1, 2, 3, and 6.
- 15**: A small rectangular plate with two mounting holes, similar to parts 1, 2, 3, and 6.

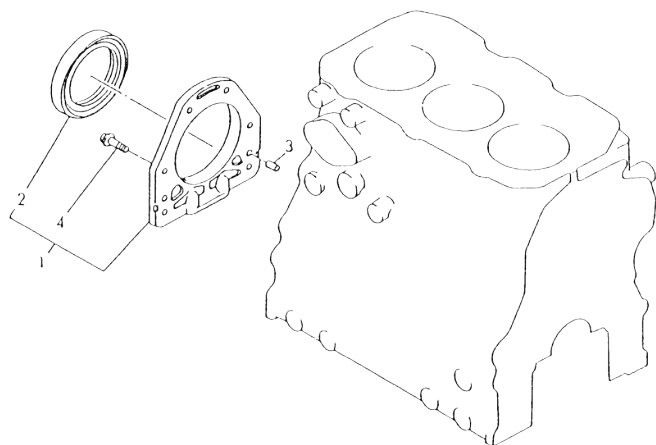
N:Old $\frac{\text{Yes}}{\text{No}}$ New. Q:Old $\frac{\text{No}}{\text{Yes}}$ New. R:Old $\frac{\text{Yes}}{\text{Yes}}$ New. S:Old $\frac{\text{No}}{\text{No}}$ New. W:Add. Z:Discontinued. F:Interchangeable by set. K:Q'ty Change

Fig.4. OIL SEAL HOUSING

0CD10-M41702 Fig.4

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

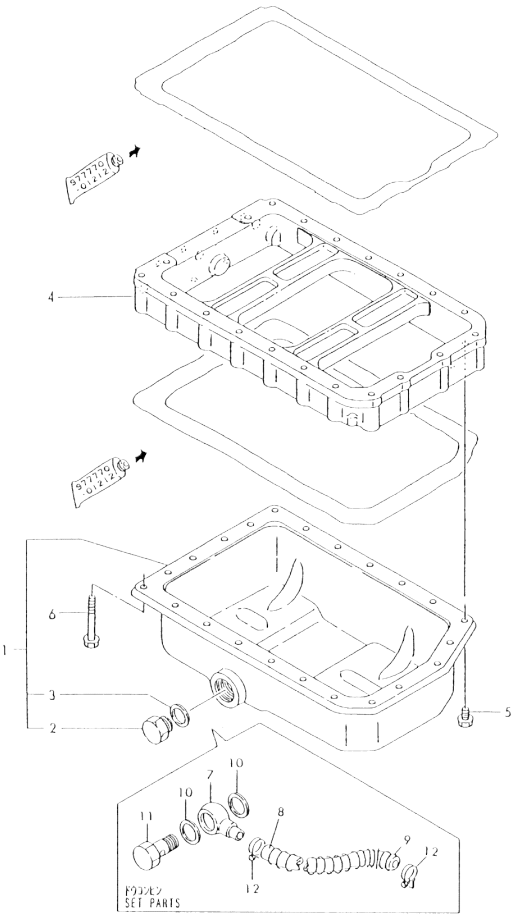
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	119660-01640	CASE ASSY, OIL SEAL	1							W
	(A=E1990.05)										
2	2	124085-02220	SEAL, OIL	1							
3	1	22312-060100	PIN, PARALLEL M6X10	2							
3	1	119620-01620	PIN, M6X10	2							N
	(A=E03816)										
4	1	26106-060222	BOLT, M6X 22 PLATED	10							



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.5. LUB.OIL SUMP

019600-01720



(A)=3TNA68L-UKS
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719631-01540	SUMP ASSY, OIL	1							
2	2	171301-01640	PLUG, 22	1							
3	2	24341-000250	O-RING, 1AS25.0	1							
3-1	2	24341-000240	O-RING, 1AS24.0	1							N
4	1	119600-01721	SPACER, OIL SUMP	1							
4-1	1	119600-01722	SPACER, OIL SUMP	1							R
5	1	26106-060122	BOLT, M6X 12 PLATED	3							
6	1	26106-060452	BOLT, M6X 45 PLATED	20							
7	1	119646-39910	JOINT, PIPE	1							W
8	1	119646-39920	HOSE, DRAIN	1							W
9	1	119646-39930	SPRING, PROTECTE	1							W
10	1	23414-220000	GASKET, 22X1.0	2							W
11	1	23857-180000	BOLT, JOINT 18	1							W
12	1	23010-025000	CLAMP, 25	2							W

Fig.6. ENGINE LIFTER

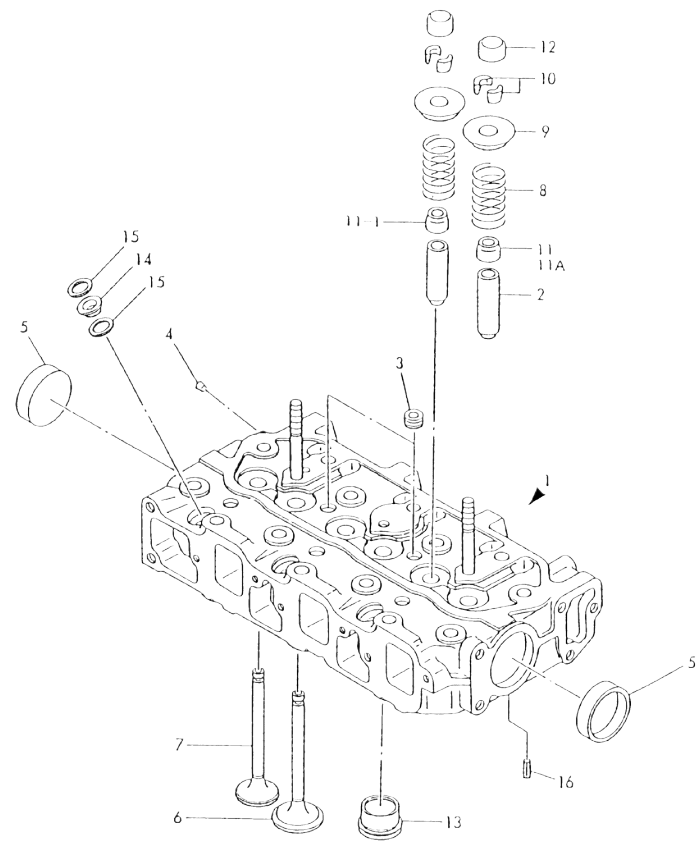
(A)=3TNA68L-UKS
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119260-07900	LIFTER	2							
2	1	26106-080142	BOLT, M8X 14 PLATED	1							
3	1	26106-080142	BOLT, M8X 14 PLATED	2							

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.7. CYLINDER HEAD



019600-11100

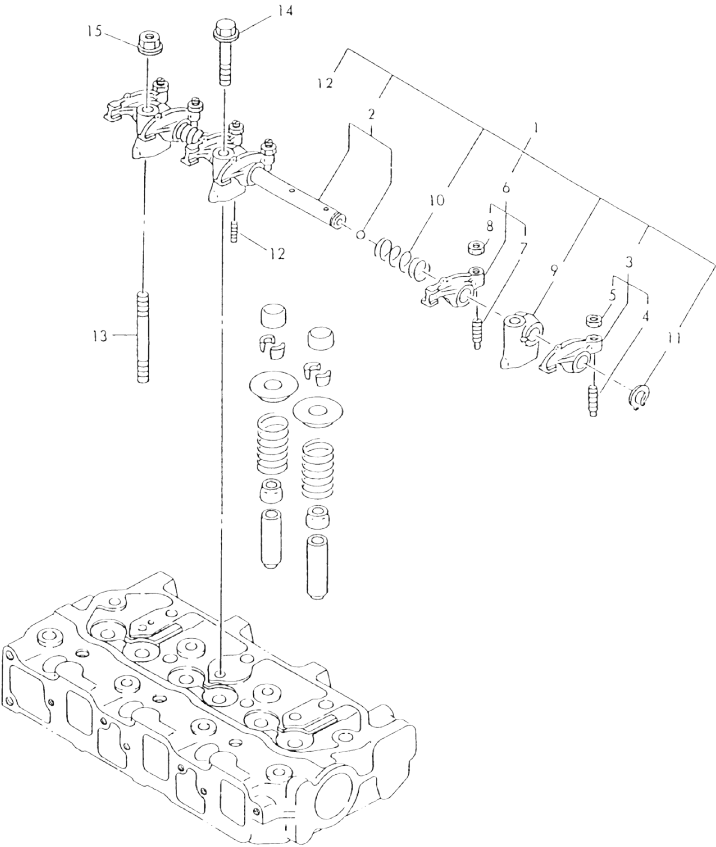
(A)=3TNA68L-UKS
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719656-11701	HEAD ASSY, CYLINDER	1							
2	2	128272-11170	GUIDE, VALVE	6							
3	2	121850-11860	PLUG, PT1/4	2							
4	2	27221-050080	PLUG, 5X 8	1							
5	2	27241-400000	PLUG, 40	2							
6	2	119620-11100	VALVE, INTAKE	3							
7	2	119620-11110	VALVE, EXHAUST	3							
8	2	119620-11120	SPRING, VALVE	6							
9	2	119620-11180	RETAINER, SPRING	6							
10	2	101158-11190	COTTER	6							
10-1	2	27310-070001	COTTER, 7	6							N
(A=E05804)											
11	2	124950-11340	SEAL, VALVE STEM	6							
11-1	2	124950-11340	SEAL, VALVE STEM	3							K
(A=E05804)											
11A	2	124160-11340	SEAL, VALVE STEM	3							W
(A=E05804)											
12	2	104211-11370	CAP, VALVE	6							
13	2	119600-11410	PLUG, HOT	3							
14	1	119600-11450	PROTECTOR, NOZZLE	3							
15	1	119600-11460	GASKET, NOZZLE	6							
16	1	22351-060012	PIN, SPRING 6.0X12	2							

Fig.8. ROCKER ARM

D19620-11200



(A)=3TNA68L-UKS
(B)=
(C)=

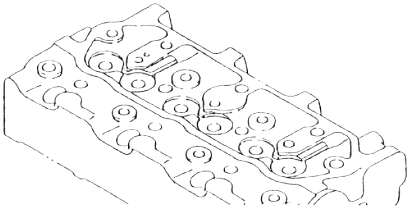
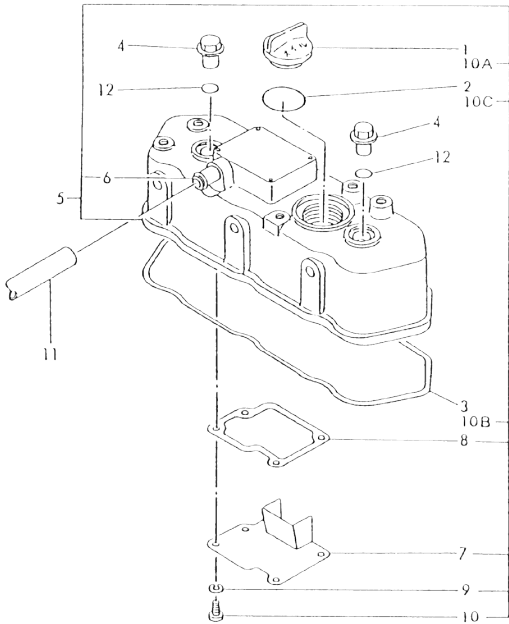
(D)=
(E)=
(F)=

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

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Fig.9. BONNET

019305-03110
019610-11310



OCD10-M41702 Fig.9

(A)=3TNA68L-UKS
(B)=
(C)=

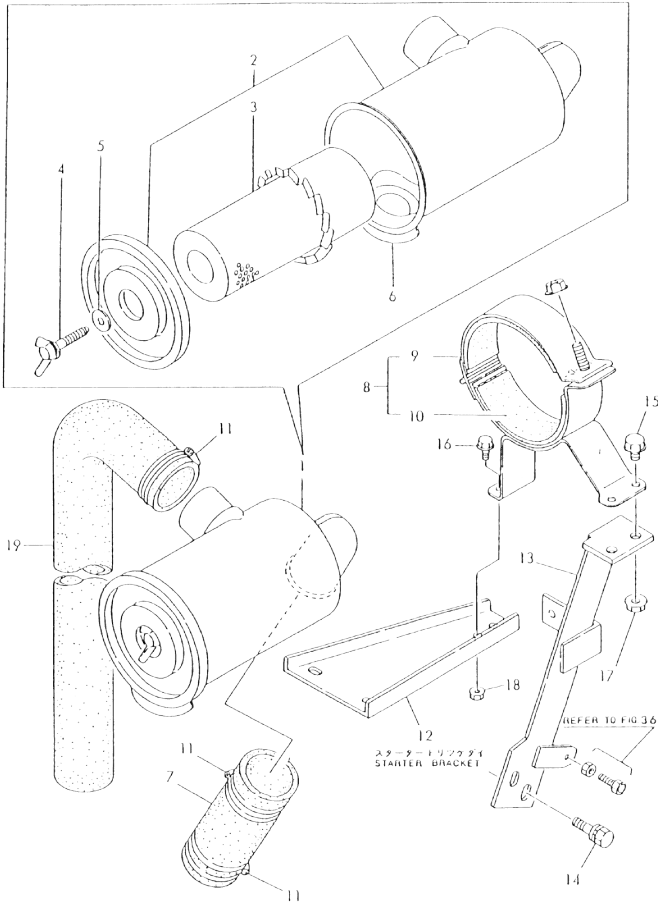
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	124160-01750	COVER	1							
1-1	1	124160-01751 (A=E02563)	COVER, FILLER	1						N	
1-2	1	124160-01751 (A=*1990.05)	COVER, FILLER	1						Z	
2	1	121420-01760	O-RING	1							
2-1	1	24311-000320 (A=E10957)	O-RING, 1AP32.0	1						N	
2-2	1	24311-000320 (A=*1990.05)	O-RING, 1AP32.0	1						Z	
3	1	119620-11310 (A=*1990.05)	GASKET, BONNET	1						Z	
4	1	124160-11360	KNOB	2							
5	1	719620-11520	BONNET ASSY, HEAD	1							
5-1	1	119620-11330 (A=*1990.05)	BONNET ASSY, HEAD	1						N	
6	2	119620-11390	JOINT	1							
7	2	119620-03020	PLATE, SHELTER	1							
8	2	119620-03030	GASKET	1							
8-1	2	119620-03031 (A=E0000)	GASKET	1						N	
9	2	22217-050000	WASHER, SPRING 5	4							
10	2	26557-050102	SCREW, M5X10	4							
10A	2	124160-01751 (A=*1990.05)	COVER, FILLER	1						W	
10B	2	119620-11310 (A=*1990.05)	GASKET, BONNET	1						W	
10C	2	24311-000320 (A=*1990.05)	O-RING, 1AP32.0	1						W	
11	1	23065-120500	PIPE, 12X 500	1							
12	1	24311-000120	O-RING, 1AP12.0	2							

OCD10-M41702

Fig.10. AIR CLEANER

019646 93000



OCD10-M41702 Fig.10

(A)=3TNA68L-UKS
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119654-12500	CLEANER ASSY, AIR	1							
2	2	XX75183164	CASE ASSY	1							
3	2	119860-12510	ELEMENT	1							
4	2	119860-12550	BOLT	1							
5	2	119860-12560	WASHER, SEAL	1							
6	2	X772035051	VALVE, UNLODER	1							
7	1	119646-12550	PIPE, AIR INTAKE	1							
8	1	119640-12590	BRACKET	1							
9	2	119640-12561	SUPPORT, AIR CLEANER	1							
10	2	119640-12580	SEAT, RUBBER	2							
11	1	23000-060000	CLAMP, 60	3							
12	1	119646-12560	BRACKET	1							
13	1	119646-12570	BRACKET	1							
14	1	26014-080222	BOLT, M8X 22	2							
15	1	26014-080202	BOLT, M8X 20	2							
16	1	26014-060182	BOLT, M6X 18	2							
17	1	26366-080002	NUT, M8	2							
18	1	26366-060002	NUT, M6	2							
19	1	171126-12210	PIPE, AIR INTAKE	1							

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. INTAKE MANIFOLD

(A)=3TNA68L-UKS
(B)=
(C)=

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

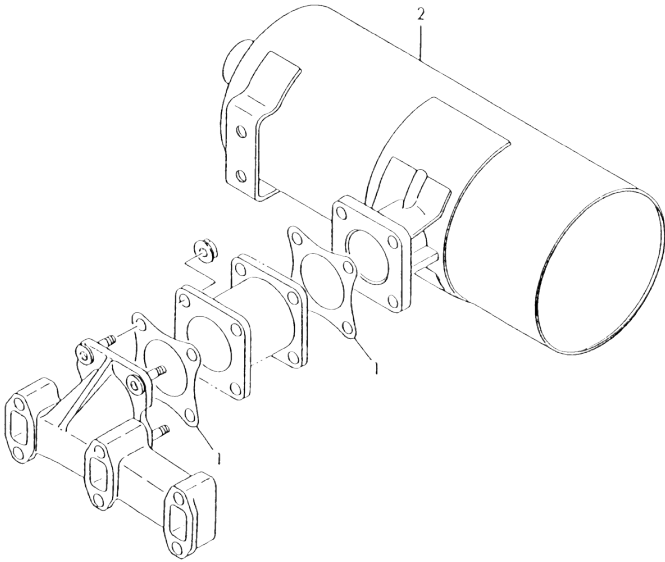
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119660-12101	MANIFOLD, AIR INTAKE	1							
2	1	119660-12111	GASKET, MANIFOLD	1							
3	1	26106-060162	BOLT, M6X 16 PLATED	2							
4	1	26106-060402	BOLT, M6X 40 PLATED	1							

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

0CD10-M41702

Fig.12. SILENCER

019646-93000



0CD10-M41702 Fig.12

(A)=3TNA68L-UKS
(B)=
(C)=

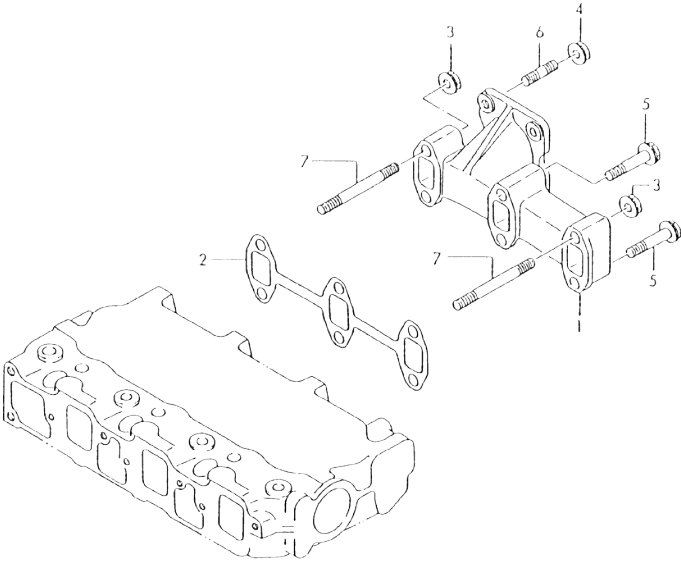
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	121000-13200	GASKET, SILENCER	2							
2	1	119640-13500	SILENCER	1							

0CD10-M41702

Fig.13. EXHAUST MANIFOLD

019600-13200



0CD10-M41702 Fig.13

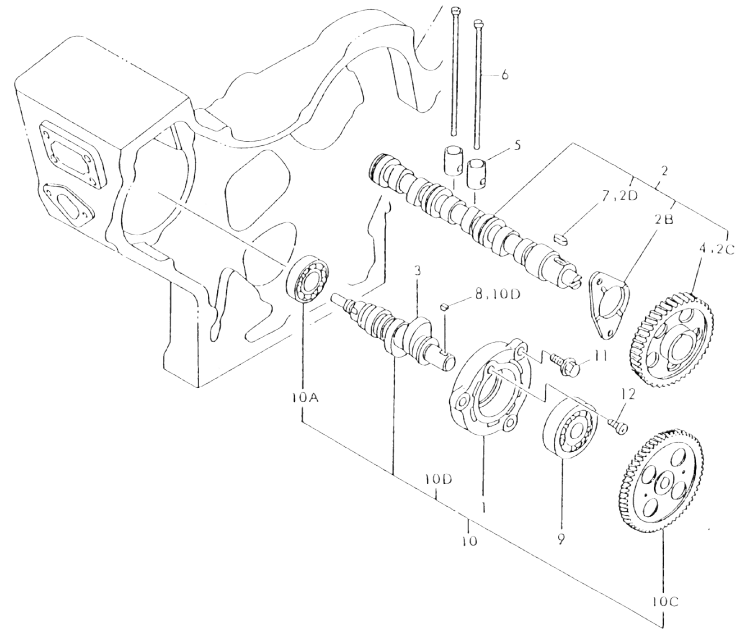
(A)=3TNA68L-UKS
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119600-13100	MANIFOLD, EXHAUST	1							
2	1	119620-13110	GASKET	1							
3	1	194990-22050	NUT, M8	2							
4	1	194990-22050	NUT, M8	4							
5	1	26106-080402	BOLT, M8X 40 PLATED	4							
6	1	26216-080222	STUD, M8X 22	4							
7	1	26216-080552	STUD, M8X 55	2							

OCD10-M41702

Fig.14. CAMSHAFT



019629-14100
719646-51300

OCD10-M41702 Fig.14

(A)=3TNA68L-UKS
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119660-01821	BEARING, FUEL CAM	1							
2	1	119629-14580	CAMSHAFT ASSY	1							W
(A=EXXX)											
2B	2	119620-02450	BEARING, THRUST	1							W
(A=EXXX)											
2C	2	119620-14100	GEAR, CAMSHAFT	1							W
(A=EXXX)											
2D	2	22512-040120	KEY, 4X 12	1							W
(A=EXXX)											
3	1	119660-14092	CAMSHAFT	1							Z
(A=EXXX)											
4	1	119620-14100	GEAR, CAMSHAFT	1							Z
(A=EXXX)											
5	1	119620-14200	TAPPET	6							
6	1	119620-14400	ROD, PUSH	6							
7	1	22512-040120	KEY, 4X 12	1							Z
(A=EXXX)											
8	1	22512-040120	KEY, 4X 12	1							Z
(A=EXXX)											
9	1	24101-062034	BEARING, BALL 6203	1							
10	1	719660-14590	CAMSHAFT	1							W
(A=EXXX)											
10A	2	24102-063034	BEARING, BALL 6303U	1							
10C	2	119660-25902	GEAR, PUMP	1							W
(A=1990.05)											
10D	2	22512-040120	KEY, 4X 12	1							W
(A=EXXX)											
11	1	26106-060162	BOLT, M6X 16 PLATED	3							
12	1	26587-080102	SCREW, M8X10	1							

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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(A)=3TNA68L-UKS
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	719660-21701	CRANKSHAFT ASSY	1							
1-1	1	719660-21700	CRANKSHAFT ASSY	1						N	
		(A=EXXX)									
2	2	119660-21201	GEAR, CRANKSHAFT	1							
3	2	22512-040120	KEY, 4X 12	1							
3A	2	129100-01580	PIN, M8X16	1							W
		(A=EXXX)									
4	1	119621-21650	V-PULLEY	1							
4-1	1	119649-21650	V-PULLEY	1						N	
		(A=EXXX)									
5	1	119621-21680	BOLT, FLANGE 12X1.25	1							
6	1	119620-21941	WASHER	1							

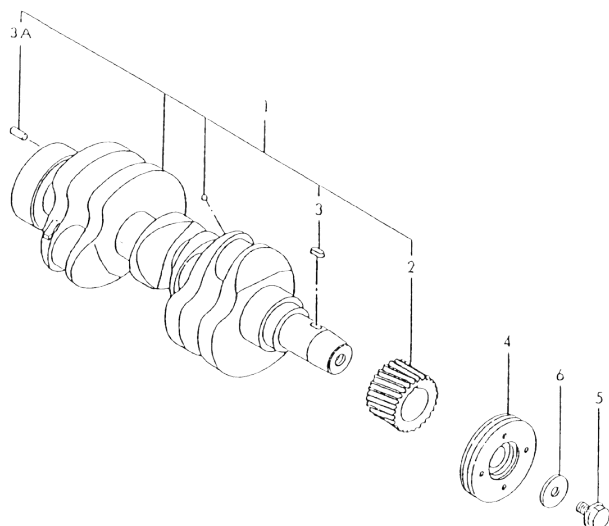


Fig.16. FLYWHEEL

This diagram shows an exploded view of a pump assembly. It includes a circular housing (2) with a central bore, a circular impeller (3) with a serrated outer edge, a small pin (1) for the housing, and a small pin (4) for the impeller. A shaft with a splined end is shown at the bottom right, intended to connect with the impeller.

(A)=3TNA68L-UKS
(B)=
(C)=

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

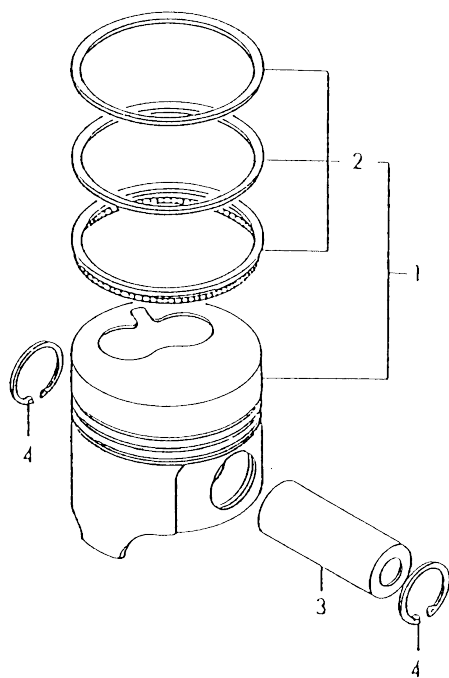
 $Q^{\#}$

(C)

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	119620-21500	BOLT, FLYWHEEL	5							
2	1	119656-21591	FLYWHEEL ASSY	1							
3	2	129350-21600	GEAR, RING	1							
4	1	22312-080160 (A=EXXX)	PIN, PARALLEL M8X16	1						Z	

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

019600-22100

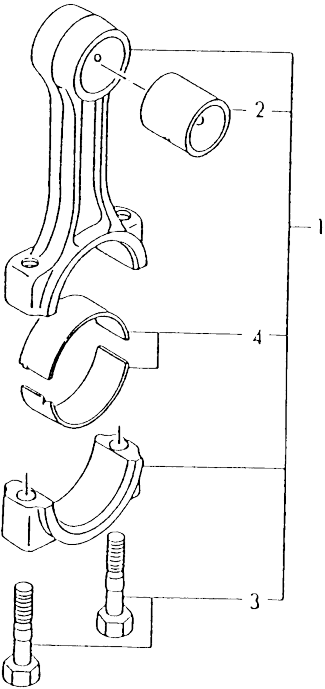


No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119600-22091	PISTON ASSY	3							
1-1	1	119600-22092 (A=E06266)	PISTON ASSY	3							N
2	2	719600-22501	RING SET, PISTON	3							
2-1	2	719630-22502 (A=*1990.05)	RING SET, PISTON	3							N
3	1	119620-22300	PIN, PISTON	3							
4	1	22252-000210	RING, 21	6							

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.18. CONNECTING ROD

019620-23100



(A)=3TNA68L-UKS
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719620-23100	ROD ASSY, CONNECTING	3							
2	2	119620-23100	BEARING, PISTON PIN	3							
3	2	105225-23200	BOLT, CONNECTING ROD	6							
4	2	719620-23600	BEARING, CRANK PIN	3							

Fig.19. IDLE GEAR

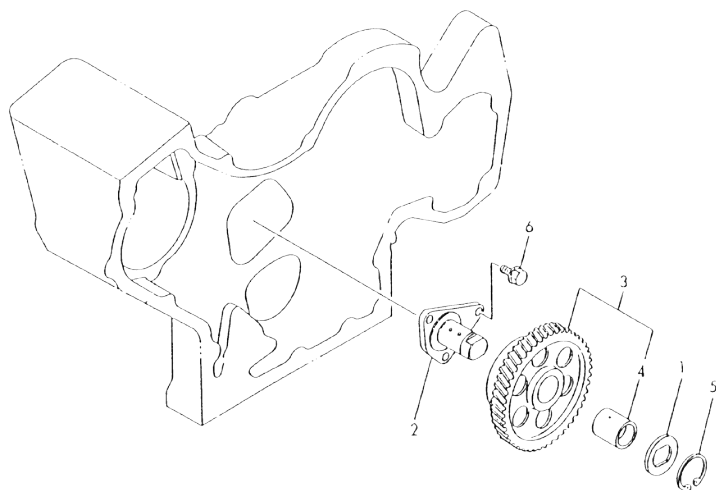
(D)=
(E)=

(A)=3TNA68L-UKS
(B)=
(C)=

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

Q'ty

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	119660-25022	RETAINER	1							
2	1	119660-25052	SHAFT, IDLE	1							
3	1	119620-25102	GEAR ASSY, IDLE	1							
4	2	119620-25062	BUSH, IDLE GEAR	1							
5	1	22242-000200	RING, 20	1							
6	1	26106-060122	BOLT, M6X 12 PLATED	3							



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.20. FUEL FEED PUMP GEAR

0CD10-M41702 Fig.20

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

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

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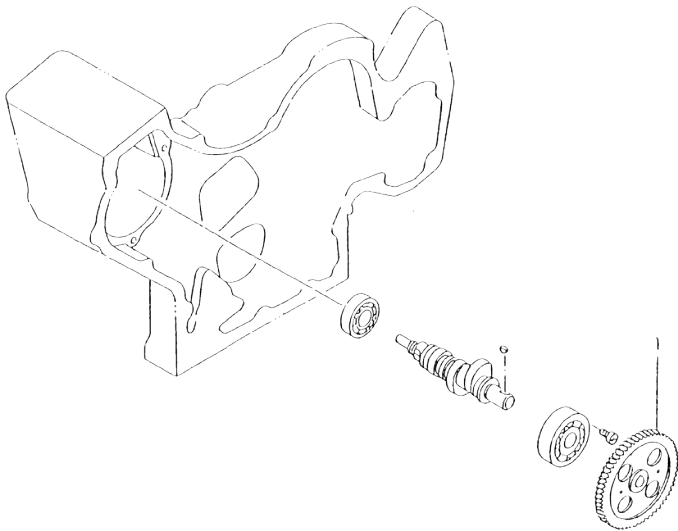


Fig.21. LUB.OIL PUMP

(A)=3TNA68L-UKS
(B)=
(C)=

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

R

[illegible]

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

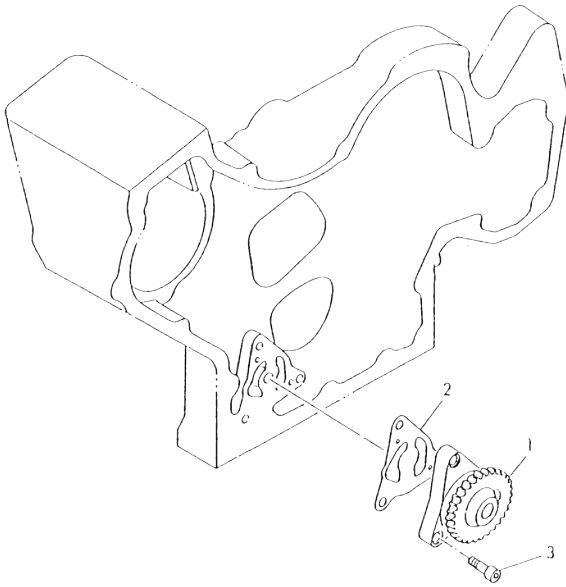


Fig.22. LUB.OIL DIPSTICK

A diagram of a probe assembly 100. It includes a probe 1, which is a long, thin rod with a curved tip and a handle. The probe 1 is shown inserted into a probe holder 2, which is a small, cylindrical component. The probe holder 2 is shown attached to a larger, irregularly shaped component, likely a probe head or a probe body, which has several circular features on its top surface.

(A)=3TNA68L-UKS
(B)=
(C)=

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

[illegible]

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.23. LUB.OIL STRAINER

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

- 1**: A small circular component, possibly a gasket or seal, located between the main housing and the base plate.
- 2**: A triangular bracket or support piece.
- 3**: A large, cylindrical component with a flange, likely a motor or actuator.
- 4**: A small circular component, possibly a gasket or seal, located between the main housing and the base plate.
- 5**: A long, cylindrical component, possibly a shaft or a long bolt.
- 6**: A small circular component, possibly a gasket or seal, located between the main housing and the base plate.
- 7**: A small circular component, possibly a gasket or seal, located between the main housing and the base plate.
- 8**: A U-shaped component, possibly a bracket or a support piece.
- 9**: A small circular component, possibly a gasket or seal, located between the main housing and the base plate.
- 10**: A small circular component, possibly a gasket or seal, located between the main housing and the base plate.
- 11**: A small circular component, possibly a gasket or seal, located between the main housing and the base plate.

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Fig.24. LUB.OIL PRESSURE SWITCH

(A)=3TNA68L-UKS
(B)=
(C)=

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

 Q^k

(C)

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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This diagram shows an exploded view of a mechanical assembly. The components are identified by numbered callouts:

- 1:** A bracket or base plate with a hole labeled '1J'.
- 2:** A long vertical rod or pin.
- 3:** A curved pipe or hose.
- 4:** A cylindrical component, possibly a pulley or a bush.
- 5:** A long screw or bolt.
- 6:** A small pin or screw.

The diagram illustrates how these parts fit together to form a complete assembly.

[illegible]

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

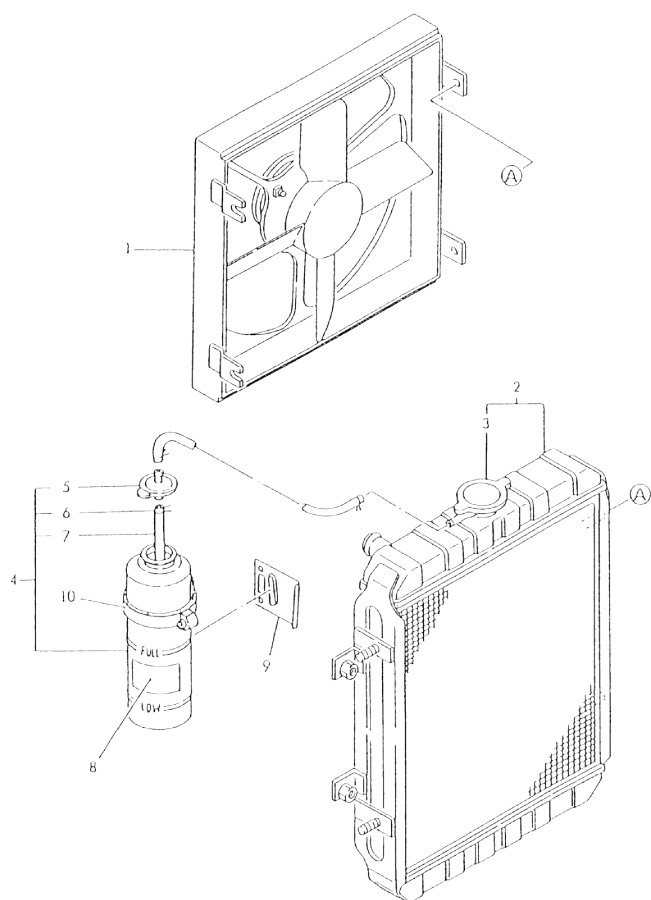
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Fig.26. RADIATOR & FAN MOTOR

0CD10-M41702 Fig.26

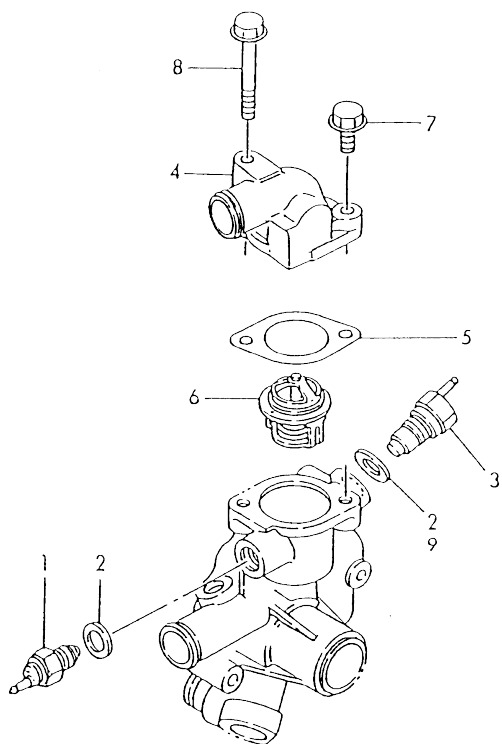
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	119646-44700	MOTOR, FAN	1							
2	1	119646-44500	RADIATOR	1							
3	2	XR904110700	CAP, RADIATOR	1							
4	1	121450-44510	TANK ASSY, SUB	1							
5	2	121450-44530	CAP	1							
6	2	124450-44560	RETAINER	1							
7	2	23065-070180	PIPE, 7X 180	1							
8	1	121470-44540	LABEL, SUB-TANK	1							
9	1	121256-44600	BRACKET, SUB TANK	1							
10	1	124450-44550	BAND	1							

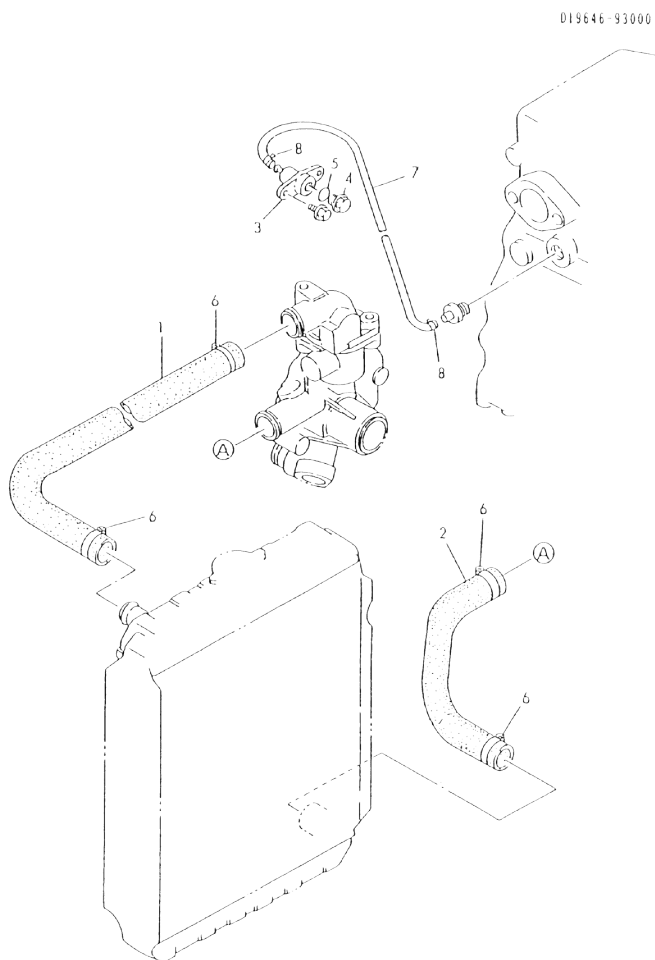


N:Old $\xrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change

019646-49220
019646-49600



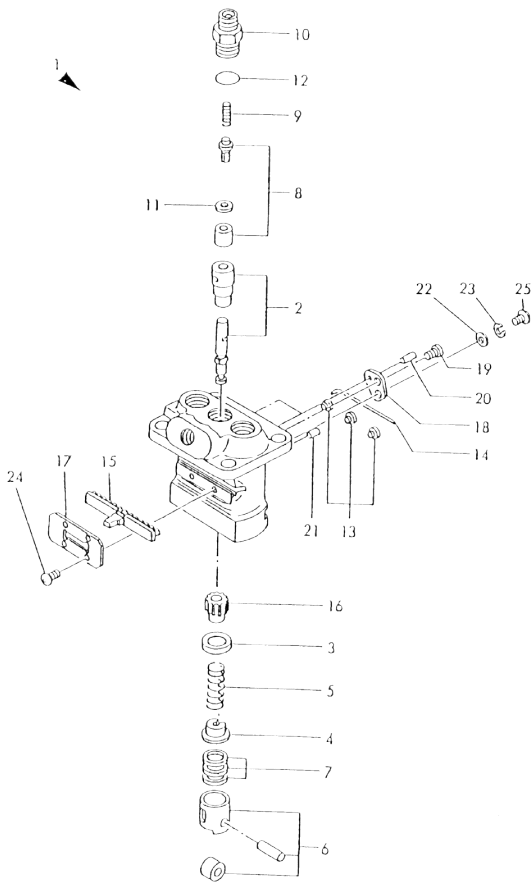
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	121250-44901	SWITCH, 110	1							
2	1	124465-44950	GASKET, 16	2							
2-1	1	124465-44950	GASKET, 16	1							K
(A=*1990.10)											
3	1	171005-49380	SWITCH	1							
3-1	1	119646-44900	SWITCH, 80	1							N
(A=EXXX)											
3-2	1	119646-44901	SWITCH, 70	1							N
(A=*1990.10)											
4	1	124101-49530	COVER, THERMOSTAT	1							
5	1	129350-49540	GASKET	1							
5-1	1	129350-49541	GASKET	1							N
(A=*1990.05)											
6	1	129350-49800	THERMOSTAT, 71	1							
7	1	26106-080252	BOLT, M8X 25 PLATED	1							
8	1	26106-080552	BOLT, M8X 55 PLATED	1							
9	1	43400-500490	SEAL WASHER 16S	1							W
(A=*1990.10)											



No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	119646-49010	PIPE, WATER	1							
2	1	119646-49020	PIPE, WATER	1							
3	1	121521-49100	BODY ASSY. COCK	1							
4	1	121250-49121	PLUG, DRAIN	1							
5	1	24311-000160	O-RING, 1AP16.0	1							
6	1	23010-038000	CLAMP, 38	4							
7	1	171022-49160	PIPE, DRAIN L=650	1							
8	1	124766-59050	CLIP, HOSE 12	2							

Fig.29. FUEL INJECTION PUMP

719646-51300



(A)=3TNA68L-UKS
(B)=
(C)=

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

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

Fig.30. FUEL FEED PUMP

(A)=3TNA68L-UKS
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	121520-01850	GASKET	1							
1-1	1	121520-01851 (A=1990.02)	GASKET	1							R
2	1	119600-52021	PUMP ASSY, FUEL FEED	1							
3	1	26014-060202	BOLT, M6X 20	2							

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

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

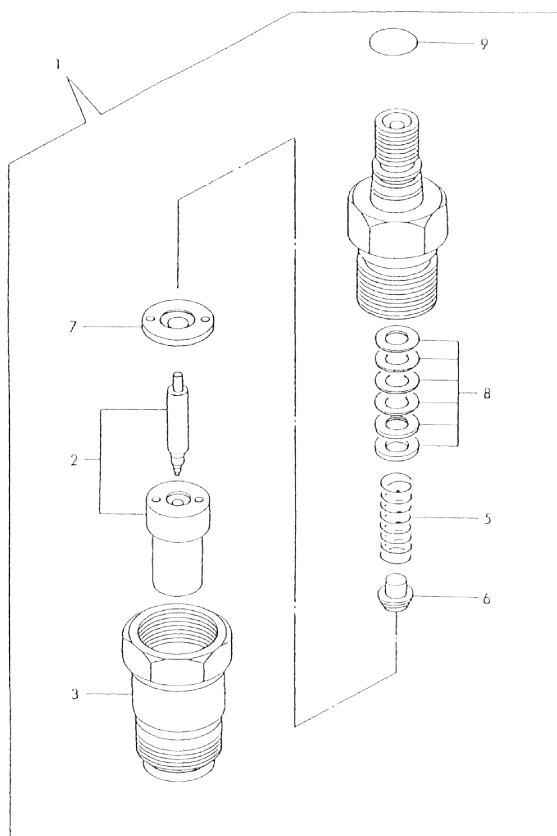
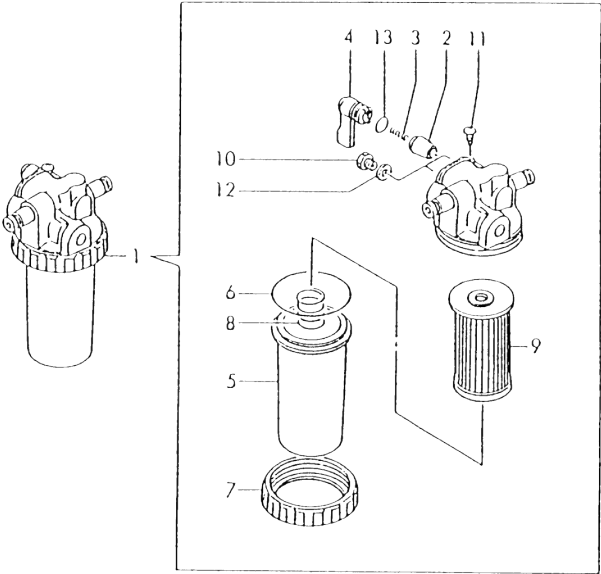


Fig.32. FUEL STRAINER

019646-93000



(A)=3TNA68L-UKS
(B)=
(C)=

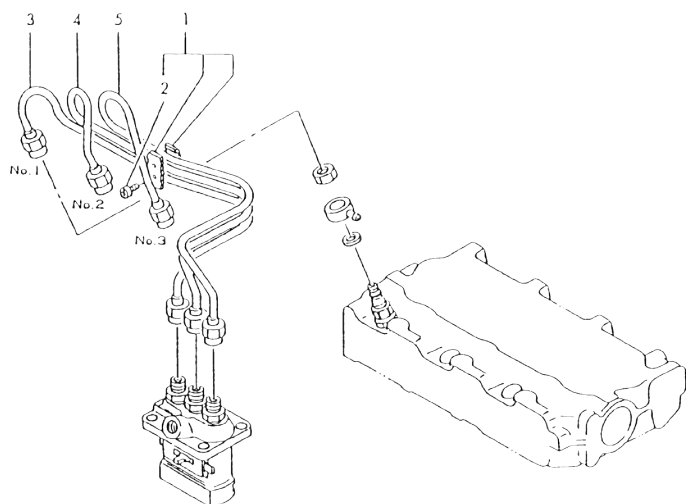
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	121254-55600	STRAINER ASSY, FUEL	1							
2	2	104200-55321	VALVE, TAPER	1							
3	2	104200-55330	SPRING, VALVE	1							
4	2	104200-55341	HANDLE	1							
5	2	121254-55510	COVER	1							
6	2	102103-55520	O-RING	1							
7	2	110250-55610	RING, RETAINING	1							
8	2	121250-55620	SPRING	1							
9	2	124550-55700	FILTER, FUEL L=90	1							
10	2	101720-55750	PLUG, 6	2							
11	2	104200-55750	SCREW, M4	1							
12	2	23418-060000	GASKET, 6X1.0	2							
13	2	24311-240100	O-RING, 1AP10A	1							

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

[illegible]

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

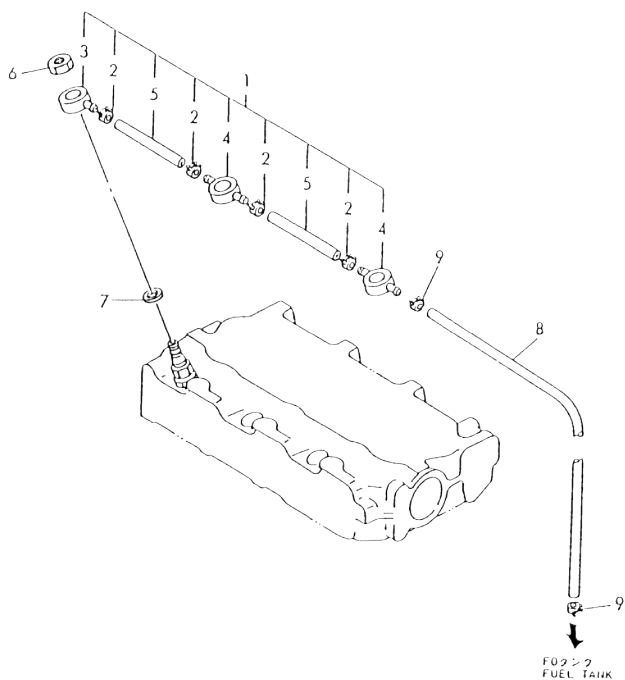


0CD10-M41702 Fig.35

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

(C)

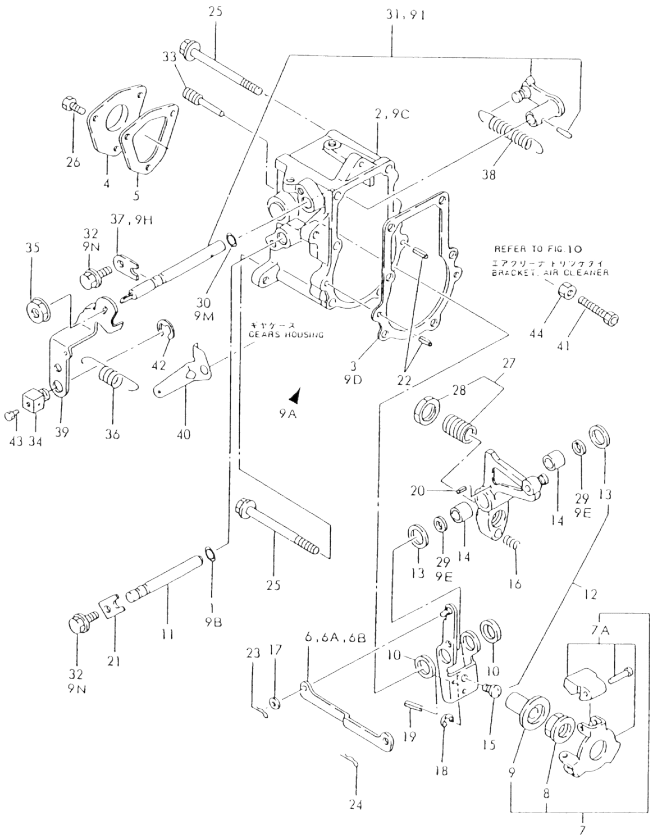
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	119620-59540	PIPE ASSY, FUEL	1							
2	2	124066-59100	CLIP, HOSE 8	4							
3	2	129155-59520	JOINT	1							
3-1	2	119260-59520	JOINT	1							
	(A=E05515)										
4	2	129155-59530	JOINT	2							
4-1	2	119260-59530	JOINT	2							
	(A=E05515)										
5	2	105025-59550	PIPE, FUEL RETURN	2							
6	1	119620-59700	NUT, NOZZLE	3							
7	1	23414-140000	GASKET, 14X1.0	3							
8	1	23780-041300	HOSE, FUEL 4X1300	1							
9	1	124066-59100	CLIP, HOSE 8	2							



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.36. GOVERNOR

719649-51300



Remarks
(1) REPAIR PARTS

(A)=3TNA68L-UKS
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129155-51280	O-RING, S6	1						Z	
		(A=E000)									
2	1	119660-61013	CASE, GOVERNOR	1						Z	
		(A=E000)									
3	1	119660-61051	GASKET	1						Z	
		(A=E000)									
4	1	119660-61060	COVER, GOVERNOR CASE	1							
5	1	119660-61070	GASKET	1							
5-1	1	119660-61071	GASKET	1						N	
		(A=*1990.02)									
6	1	119660-61121	LINK, NO MARK	1							
6A	1	119660-61140	LINK, MARK :2	1						W	1
		(A=E08877)									
6B	1	119660-61150	LINK, MARK :3	1						W	1
		(A=E08877)									
7	1	119600-61100	DRIVE ASSY	1						W	
		(A=E000)									
7A	2	119600-61200	WEIGHT ASSY,GOVERNOR	1							
8	2	119660-61300	NUT	1							
9	2	119660-61341	SLEEVE	1							
9A	1	119610-61200	CASE ASSY, GOVERNOR	1						W	
		(A=E000)									
9B	2	129155-51280	O-RING, S6	1						W	
		(A=E000)									
9C	2	119660-61013	CASE, GOVERNOR	1						W	
		(A=E000)									
9D	2	119660-61052	GASKET	1						W	
		(A=E000)									
9E	2	119660-61460	SHIM SET	1						W	
		(A=E000)									
9H	2	119600-61900	RETAINER, SHAFT	1						W	
		(A=E000)									
9I	2	119621-66091	SHAFT ASSY	1						W	
		(A=E000)									
9M	2	24341-000070	O-RING, 1AS7.0	1						W	
		(A=E000)									
9N	2	26106-060102	BOLT, M6X 10 PLATED	2						W	
		(A=E000)									
10	1	129155-61480	SPACER ASSY	2							
11	1	119660-61491	SHAFT	1							
12	1	119656-61500	LEVER ASSY, GOVERNOR	1							
		(A=*1990.05)									
13	2	174307-51700	SHIM SET	2							
14	2	121450-61520	BEARING, NEEDLE 8	2							
15	2	119600-61540	SHIFTER	1							
16	2	119660-61651	SPRING, STARTING	1							
17	2	22117-040000	WASHER, 4	1							
18	2	22272-000040	RING, E- 4	1							
19	2	22351-020004	PIN, SPRING 2.0X 4	1							
20	2	22351-030014	PIN, SPRING 3.0X14	1							
21	1	119660-61901	RETAINER, SHAFT	1							

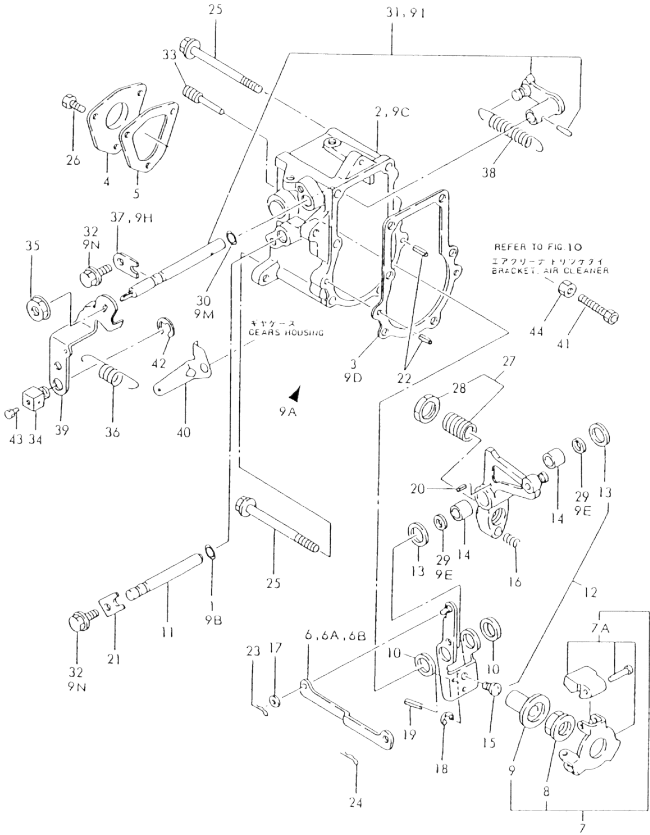
N:Old $\frac{100}{100}$ New, Q:Old $\frac{100}{100}$ New, R:Old $\frac{100}{100}$ New, S:Old $\frac{100}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
++ CONTINUE ++
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Fig.36. GOVERNOR

(A)=3TNA68L-UKS
(B)=
(C)=

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

719649-51300

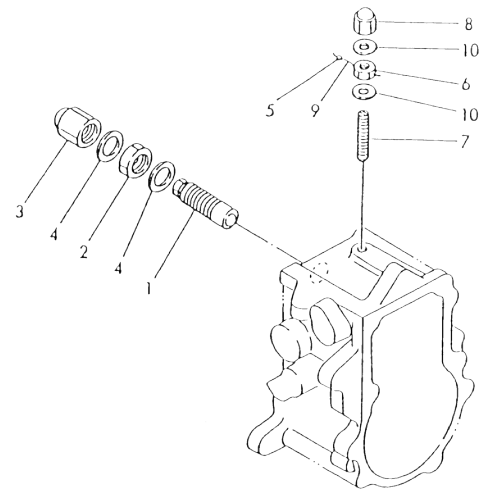


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
22	1	22351-040010	PIN, SPRING 4.0X10	2							
23	1	22360-040000	PIN, SNAP 4	1							
24	1	22360-060000	PIN, SNAP 6	1							
25	1	26106-060702	BOLT, M6X 70 PLATED	6							
26	1	26116-050102	BOLT, M5X 10 PLATED	3							
27	1	119600-66720	ANGLEICH ASSY	1							
28	2	129155-61590	NUT, LOCK	1							
29	1	119660-61460	SHIM SET	1							Z
(A=EXXX)											
30	1	24341-000070	O-RING, 1AS7.0	1							Z
(A=EXXX)											
31	1	119621-66091	SHAFT ASSY	1							Z
(A=EXXX)											
32	1	26106-060102	BOLT, M6X 10 PLATED	2							Z
(A=EXXX)											
33	1	124250-03640	SCREW	1							
34	1	124066-03770	RETAINER	1							
35	1	194990-22050	NUT, M8	1							
36	1	119840-61870	SPRING	1							
37	1	119600-61900	RETAINER, SHAFT	1							Z
(A=EXXX)											
38	1	119600-66020	SPRING, REGULATOR	1							
39	1	119640-66051	HANDLE, REGULATOR	1							
40	1	119656-66910	HOOK	1							
41	1	102100-67080	BOLT, ADJUSTING	1							
42	1	22272-000050	RING, E- 5	1							
43	1	26116-040088	BOLT, M4X 8 PLATED	1							
44	1	26756-060002	NUT, LOCK M6	1							

Remarks
(1) REPAIR PARTS

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.37. CONTROL SYSTEM



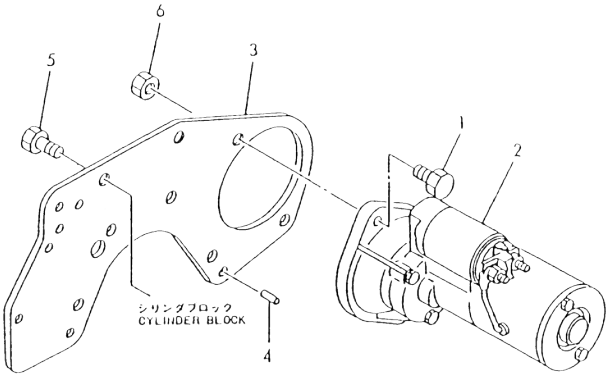
719646-51300
029426-66400

				0CD10-M41702 Fig.37							
				(A)=3TNA68L-UKS				(D)=			
				(B)=				(E)=			
				(C)=				(F)=			
						Q'ty					
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	119600-66530	LIMITER ASSY, FUEL	1							
2	1	124772-66750	NUT, LOCK M12	1							
3	1	129100-61930	NUT, CAP	1							
4	1	43400-500450	SEAL WASHER 12S	2							
5	1	135210-61090	LEAD	1							
6	1	124550-66370	NUT, M6	1							
7	1	121575-66830	SCREW	1							
8	1	119600-66840	NUT, CAP	1							
9	1	22451-060000	WIRE, 0.6	1							
10	1	43400-500400	SEAL WASHER 6	2							

0CD10-M41702

Fig.38. STARTING MOTOR

019646-77110
019656-77800



0CD10-M41702 Fig.38

(A)=3TNA68L-UKS

(D)=

(B)=

(E)=

(C)=

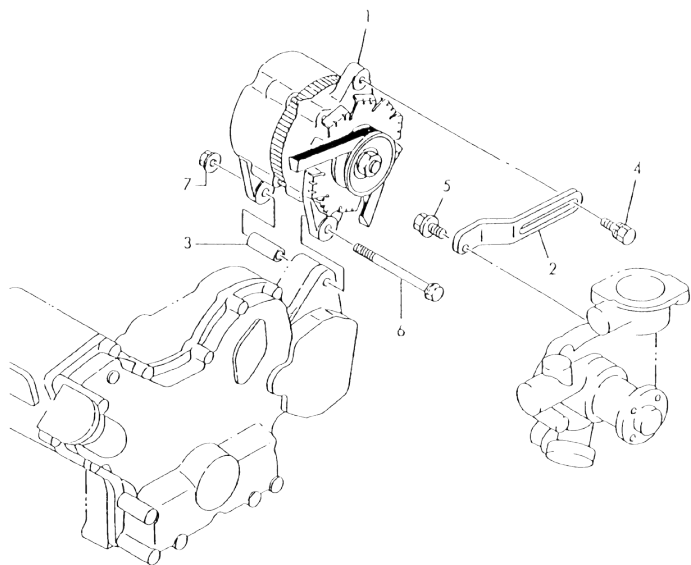
(F)=

Q'ty

I R

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)		
1	1	121476-01620	BOLT	2							
2	1	124976-77011	STARTER, S114-349A	1							
3	1	119656-77041	BRACKET, STARTER	1							
4	1	22312-080160	PIN, PARALLEL M8X16	2							
4-1	1	129100-01580	PIN, M8X16	2							N
(A=E04997)											
5	1	26206-100202	BOLT, M10X 20 PLATED	6							
6	1	26716-120002	NUT, M12	2							

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019660-77310

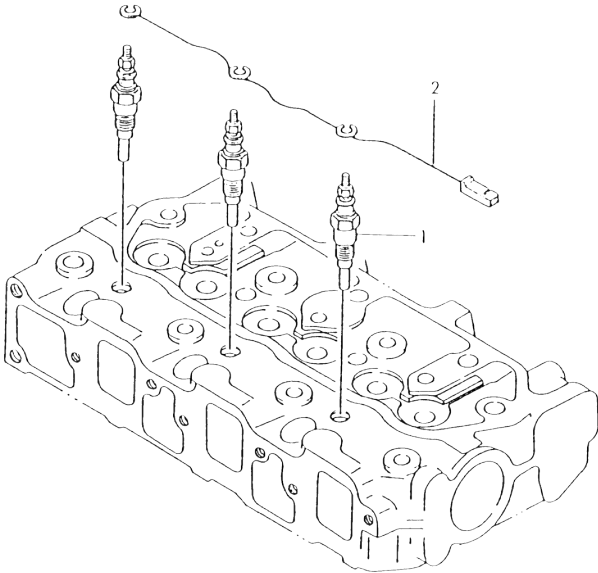


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119620-77200	GENERATOR, 12V-35A	1							
1-1	1	119620-77201 (A=*1990.)	GENERATOR, 40A	1							R
2	1	119660-77330	ADJUSTER	1							
3	1	119621-77340 (A=*1990.)	PIECE, DISTANCE	1							Z
4	1	26014-080252	BOLT, M8X 25	1							
5	1	26106-080182	BOLT, M8X 18 PLATED	1							
5-1	1	26106-080162 (A=*1990.05)	BOLT, M8X 16 PLATED	1							N
6	1	26106-081052	BOLT, M8X105 PLATED	1							
6-1	1	26106-100552 (A=*1990.)	BOLT, M10X 55 PLATED	1							N
7	1	26366-080002 (A=*1990.)	NUT, M8	1							Z

0CD10-M41702

Fig.40. GLOW PLUG

019654-77310
019650-77700



0CD10-M41702 Fig.40

(A)=3TNA68L-UKS
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129795-77800	PLUG, GLOW	3							
2	1	119645-77820	CONNECTOR, GLOW PLUG	1							

Fig.41. ELECTRIC PARTS

0CD10-M41702 Fig.41

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

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

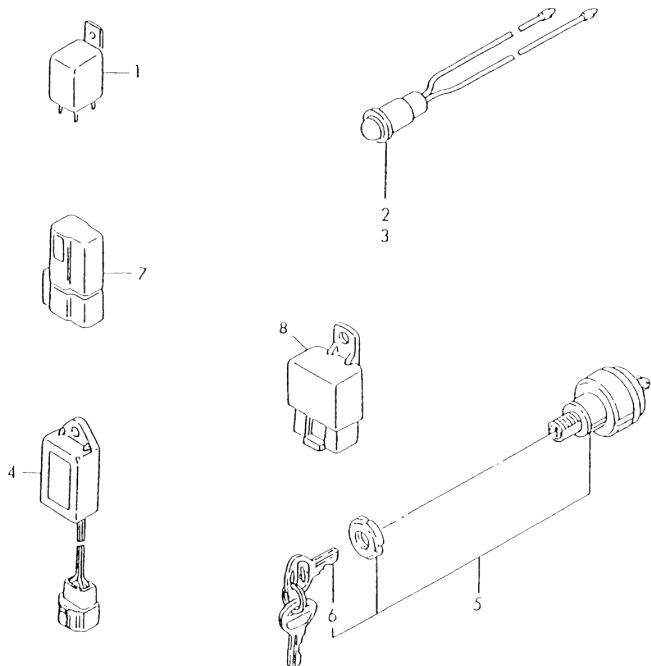
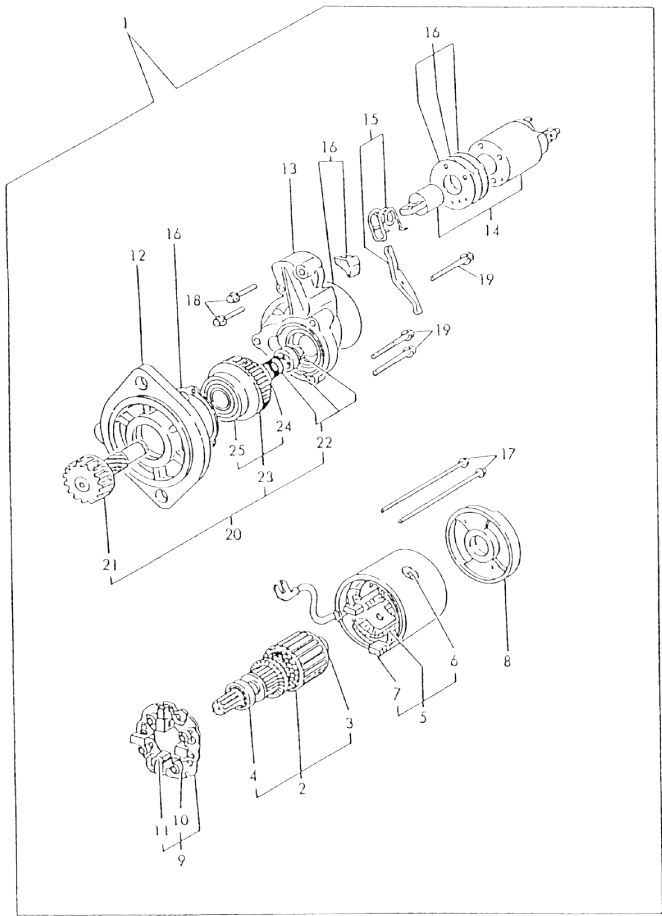


Fig.42. STARTING MOTOR(COMPONENT PARTS

019646-77110



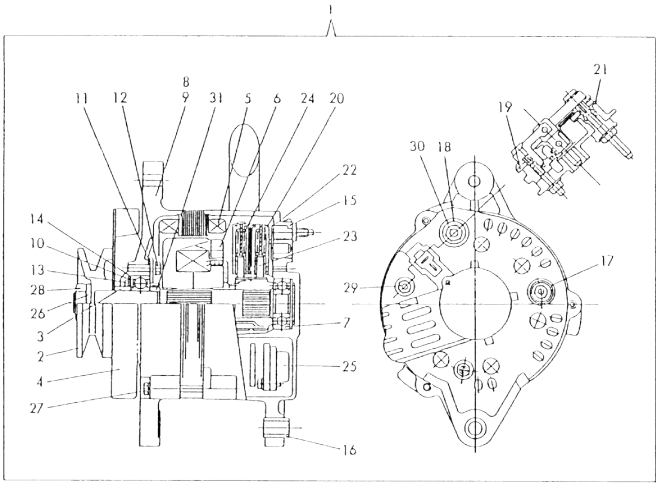
(A)=3TNA68L-UKS
(B)=
(C)=

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

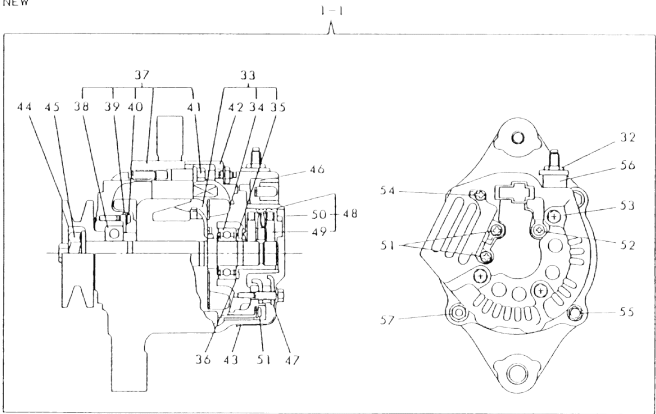
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	124976-77011	STARTER, S114-349A	1							
2	2	X211451007	ARMATURE ASSY	1							
3	3	X211415502	BEARING, BALL	1							
4	3	X211425502	BEARING, BALL	1							
5	2	X211472106	COIL ASSY, FIELD	1							
6	3	X21148215	SCREW, POLE CORE	4							
7	3	X21143315	BRUSH (+)	2							
8	2	X211483003	COVER	1							
9	2	X211429007	HOLDER ASSY, BRUSH	1							
10	3	X21148314	SPRING, BRUSH	4							
11	3	X211459002	BRUSH (-)	2							
12	2	X211476504	HOUSING ASSY, GEAR	1							
13	2	X211414501	HOUSING, CENTER	1							
14	2	X211447007	SWITCH, MAGNETIC	1							
15	2	X21146012	LEVER, SHIFT	1							
16	2	X211448004	COVER KIT	1							
17	2	X211468005	BOLT, THROUGH	2							
18	2	X21145866	BOLT	2							
19	2	X21142867	BOLT	3							
20	2	X211415505	CLUTCH ASSY	1							
21	3	X211495009	SHAFT	1							
22	3	X211429006	STOPPER SET	1							
23	3	X211425505	CLUTCH ASSY	1							
24	4	X211435502	BALL BEARING	1							
25	4	X211445502	BALL BEARING	1							

Fig.43. GENERATOR(COMPONENT PARTS)

019646-77210



NEW



(A)=3TNA68L-UKS
(B)=
(C)=

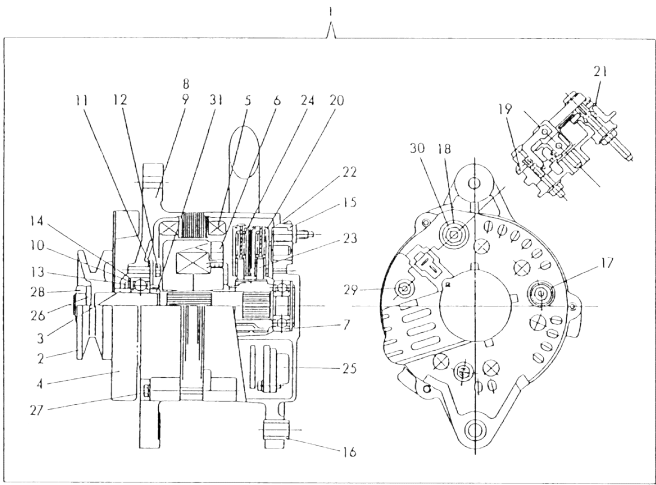
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119620-77200	GENERATOR, 12V-35A	1							
1-1	1	119620-77201	GENERATOR, 40A	1						N	
		(A=E14312)									
2	2	X0210412581	PULLEY	1						Z	
		(A=E14312)									
3	2	X0210450040	COLLAR	1						Z	
		(A=E14312)									
4	2	X0210510800	FAN	1						Z	
		(A=E14312)									
5	2	X0211000880	STATOR	1						Z	
		(A=E14312)									
6	2	X0212000480	ROTOR	1						Z	
		(A=E14312)									
7	3	X9491000350	BEARING	1						Z	
		(A=E14312)									
8	2	X0214002010	FRAME ASSY	1						Z	
		(A=E14312)									
9	3	X0214011671	FRAME	1						Z	
		(A=E14312)									
10	3	X0214050010	COVER	1						Z	
		(A=E14312)									
11	3	X0214110280	PLATE	1						Z	
		(A=E14312)									
12	3	X9480070010	SCREW	3						Z	
		(A=E14312)									
13	3	X9490200230	FELT	1						Z	
		(A=E14312)									
14	3	X9491000340	BEARING	1						Z	
		(A=E14312)									
15	2	X0215014560	FRAME, REAR	1						Z	
		(A=E14312)									
16	3	X0215410321	BUSH	1						Z	
		(A=E14312)									
17	2	X0216050291	INSULATION	1						Z	
		(A=E14312)									
18	2	X0216050301	INSULATION	1						Z	
		(A=E14312)									
19	2	X0219972990	SERVICE KIT	1						Z	
		(A=E14312)									
20	3	X0216202141	HOLDER ASSY	1						Z	
		(A=E14312)									
21	4	X0216050890	INSULATION	2						Z	
		(A=E14312)									
22	4	X0216250180	WASHER	1						Z	
		(A=E14312)									
23	4	X0216600130	BRUSH	2						Z	
		(A=E14312)									
24	4	X9491700570	SPRING	2						Z	
		(A=E14312)									
25	2	X0260007000	REGULATOR ASSY	1						Z	
		(A=E14312)									

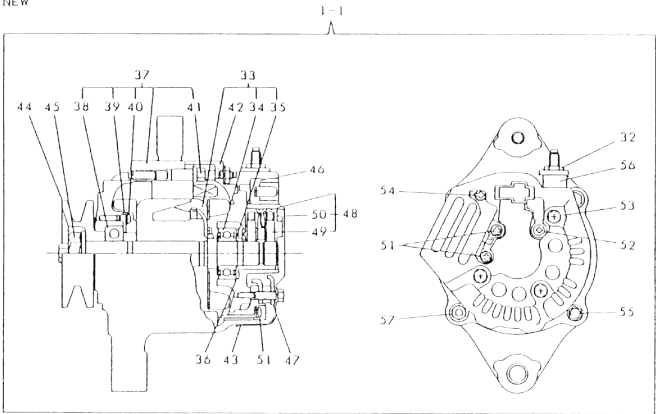
N:Old $\frac{N_{old}}{100}$ New, Q:Old $\frac{Q_{old}}{100}$ New, R:Old $\frac{R_{old}}{100}$ New, S:Old $\frac{S_{old}}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
++ CONTINUE ++
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Fig.43. GENERATOR(COMPONENT PARTS)

019646-77210



NEW



(A)=3TNA68L-UKS
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
26	2	X9025814001	WASHER	1						Z	
(A=E14312)											
27	2	X9480420910	BOLT	3						Z	
(A=E14312)											
28	2	X9490501080	NUT	1						Z	
(A=E14312)											
29	2	X9490560990	NUT	3						Z	
(A=E14312)											
30	2	X9490561001	NUT	1						Z	
(A=E14312)											
31	2	X9491920900	COLLAR	1						Z	
(A=E14312)											
32	2	X9490561001	NUT	1						W	
(A=E14312)											
33	2	119620-77380	ROTOR ASSY	1						W	
(A=E14312)											
34	3	119620-79240	BEARING, BALL	1						W	
(A=E14312)											
35	3	119620-79250	COVER	1						W	
(A=E14312)											
36	3	119620-79360	WASHER, THRUST	1						W	
(A=E14312)											
37	2	119620-77420	FLAME ASSY, DRIVE	1						W	
(A=E14312)											
38	3	119620-79200	BEARING, BALL	1						W	
(A=E14312)											
39	3	119620-79210	PLATE, RETAINER	1						W	
(A=E14312)											
40	3	119620-79220	SCREW	4						W	
(A=E14312)											
41	3	119620-79230	STUD	2						W	
(A=E14312)											
42	2	119620-77440	FRAME ASSY	1						W	
(A=E14312)											
43	2	119620-77450	COVER	1						W	
(A=E14312)											
44	2	119620-77460	PULLEY,CRANKSHAFT	1						W	
(A=E14312)											
45	2	119620-77470	NUT	1						W	
(A=E14312)											
46	2	119620-77710	REGULATOR ASSY	1						W	
(A=E14312)											
47	2	119620-79260	HOLDER	1						W	
(A=E14312)											
48	2	119620-79270	HOLDER, BRUSH	1						W	
(A=E14312)											
49	3	119620-77480	BRUSH ASSY	2						W	
(A=E14312)											
50	3	119620-79280	SPRING	2						W	
(A=E14312)											
51	2	119620-79290	SCREW	6						W	

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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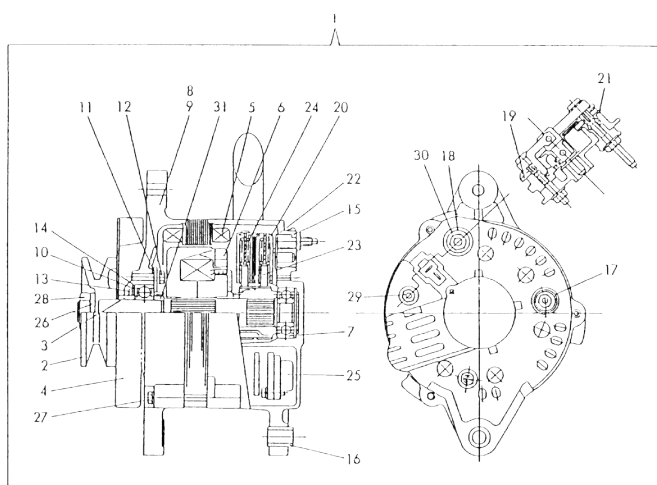
Fig.43. GENERATOR(COMPONENT PARTS)

0CD10-M41702 Fig.43

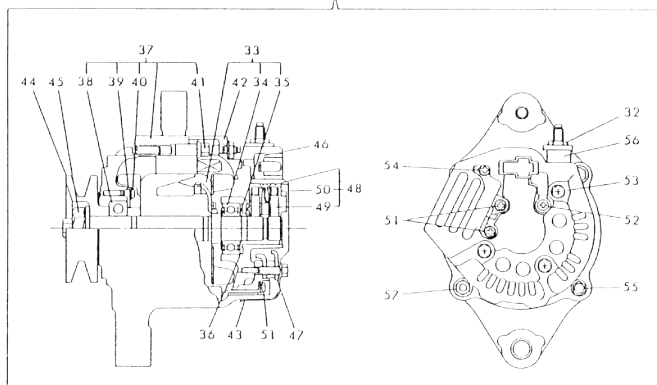
(A)=3TNA68L-UKS
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
52	(A=E14312) 2	119620-79300	SCREW	1						W	
53	(A=E14312) 2	119620-79310	BOLT	3						W	
54	(A=E14312) 2	119620-79320	SCREW	2						W	
55	(A=E14312) 2	119620-79330	BOLT	2						W	
56	(A=E14312) 2	119620-79340	BUSH, INSULATION	1						W	
57	(A=E14312) 2	119620-79350	NUT	2						W	

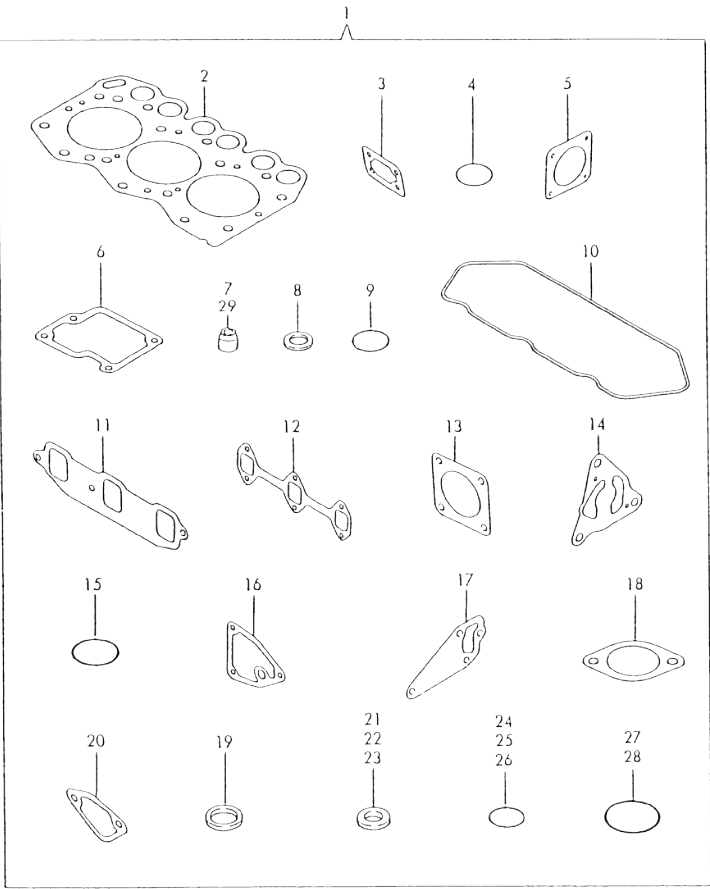


1-1



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

Fig.44. GASKET SET



Remarks
(1)OPTIONAL PART.

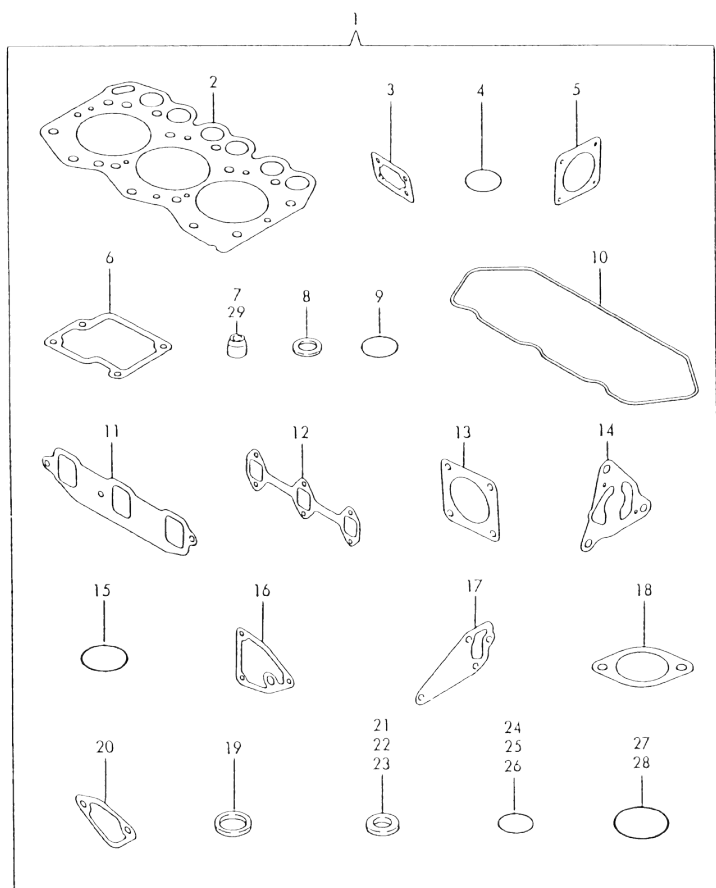
(A)=3TNA68L-UKS
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719646-92600	GASKET SET	1							1
1-1	1	719646-92601	GASKET SET	1						N	1
(A=E0000)											
2	2	119656-01340	GASKET, HEAD	1							
3	2	119660-01561	GASKET	1							
3-1	2	119660-01562	GASKET	1						R	
(A=1990.02)											
4	2	121420-01760	O-RING	1							
4-1	2	24311-000320	O-RING, 1AP32.0	1						N	
(A=1990.05)											
5	2	124240-01882	GASKET	1						Z	
(A=E0000)											
6	2	119620-03030	GASKET	1							
6-1	2	119620-03031	GASKET	1						N	
(A=E0000)											
7	2	124950-11340	SEAL, VALVE STEM	6							
7-1	2	124950-11340	SEAL, VALVE STEM	3						K	
(A=E05804)											
8	2	119600-11460	GASKET, NOZZLE	6							
9	2	121420-01760	O-RING	1							
9-1	2	24311-000320	O-RING, 1AP32.0	1						N	
(A=1990.05)											
10	2	119620-11310	GASKET, BONNET	1							
11	2	119660-12111	GASKET, MANIFOLD	1							
12	2	119620-13110	GASKET	1							
13	2	121000-13200	GASKET, SILENCER	1							
14	2	119660-32020	GASKET, PUMP	1							
15	2	124450-35110	O-RING	1							
16	2	119660-35112	GASKET	1							
16-1	2	119660-35113	GASKET	1						R	
(A=1990.02)											
17	2	119620-42020	GASKET, WATER PUMP	1							
18	2	129350-49540	GASKET	1							
18-1	2	129350-49541	GASKET	1						N	
(A=1990.05)											
19	2	124465-44950	GASKET, 16	2							
19-1	2	124465-44950	GASKET, 16	1						K	
(A=1990.10)											
20	2	121520-01850	GASKET	1							
20-1	2	121520-01851	GASKET	1						R	
(A=1990.02)											
21	2	104200-59170	GASKET, 12	2							
22	2	23414-080012	GASKET, 8X1.0	4							
23	2	23414-140000	GASKET, 14X1.0	3							
24	2	24311-000120	O-RING, 1AP12.0	2							
25	2	24311-000160	O-RING, 1AP16.0	1							
26	2	24311-240100	O-RING, 1AP10A	1							
27	2	24341-000250	O-RING, 1AS25.0	1							
27-1	2	24341-000240	O-RING, 1AS24.0	1						N	
(A=E02563)											
28	2	24341-000260	O-RING, 1AS26.0	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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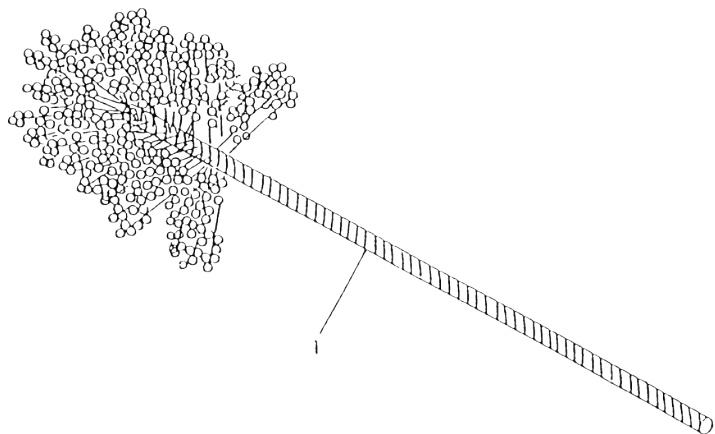
No.	Lev.	Parts No.	Description	Q'ty						I R
				(A)	(B)	(C)	(D)	(E)	(F)	
28-1	2	24341-000240 (A=E17278)	O-RING, 1AS24.0	1						N
29	2	124160-11340 (A=E05804)	SEAL, VALVE STEM	3						W



Remarks
(1)OPTIONAL PART.

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.45. SPECIAL TOOL(OPTIONAL)



(A)=3TNA68L-UKS
(B)=
(C)=

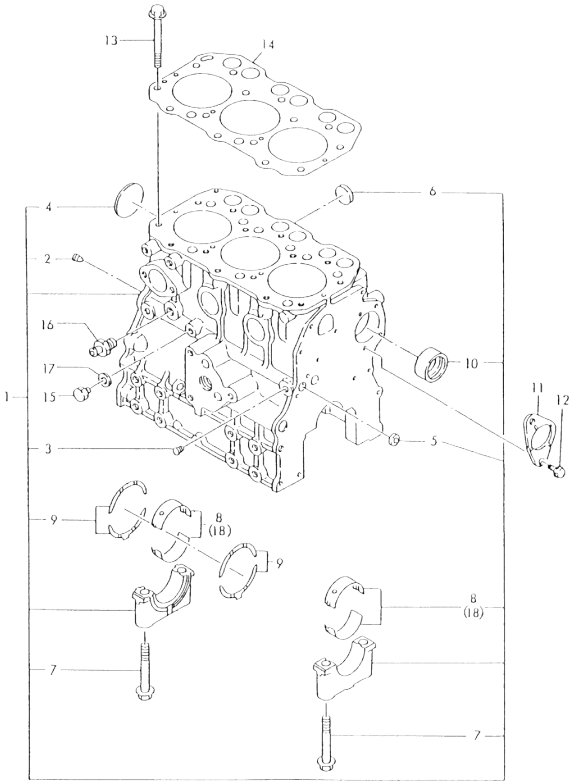
(D)=
(E)=
(F)=

[illegible]

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.46. CYLINDER BLOCK

019610-01100
019620-02100
019629-02200
019600-49300

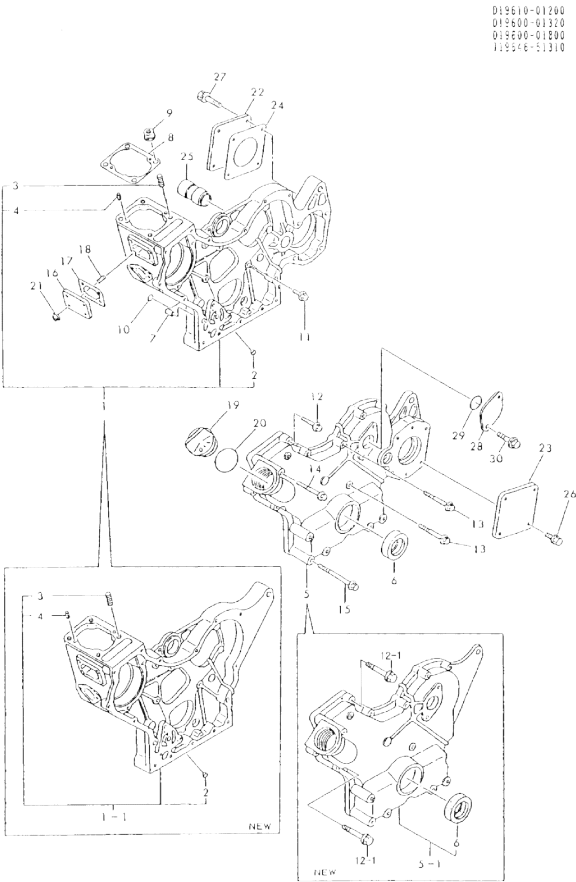


Remarks
(1)UNDER-SIZE PART.

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	
		(B=E17350)									
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					Z	
		(B=E17350)									
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	
		(B=E17350)									
16	1	121550-49111	JOINT, PT1/4		1						
17	1	104884-59170	GASKET		1					Z	
		(B=E17350)									
18	1	719620-02870	BEARING, 0.25 US		4						1

OCD10-M41702

Fig.47. GEAR HOUSING



D19610-01260
D19600-01320
D19600-01800
D19600-01310

OCD10-M41702 Fig.47

(A)=
(B)=3TNA72L-UKS
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119600-01501	CASE ASSY, GEAR		1						
1-1	1	119610-01490	CASE ASSY, GEAR (B=E41789)		1					F	1
2	2	119660-01510	PLUG, 10X14		1						
3	2	121450-01560	STUD, M8X22		4						
4	2	22351-040010	PIN, SPRING 4.0X10		2						
5	1	119621-01520	COVER, GEAR CASE		1						
5-1	1	119610-01590	COVER ASSY,GEAR CASE (B=E41789)		1					F	1
6	2	119620-01800	SEAL, OIL		1						
7	1	119660-01911	PIPE, KNOCK		4						
8	1	119620-01950	SHIM SET, ADJUSTING		1						
9	1	194990-22050	NUT, M8		4						
10	1	24311-000120	O-RING, 1AP12.0		2						
11	1	26106-060162	BOLT, M6X 16 PLATED		7						
12	1	26106-060302	BOLT, M6X 30 PLATED		6						
12-1	1	26106-060302	BOLT, M6X 30 PLATED (B=E41789)		8					F	1
13	1	26106-060602	BOLT, M6X 60 PLATED		3						
14	1	26106-060602	BOLT, M6X 60 PLATED		1						
15	1	26106-060802	BOLT, M6X 80 PLATED		6						
16	1	119660-01551	COVER		1						
17	1	119660-01561	GASKET		1						
17-1	1	119660-01562	GASKET (B=E39286)		1						R
18	1	119660-01570	STUD, M6X12		4						
19	1	124160-01751	COVER, FILLER		1						
20	1	121420-01760	O-RING		1						
20-1	1	24311-000320	O-RING, 1AP32.0 (B=E21469)		1						N
21	1	26366-060002	NUT, M6		4						
22	1	124240-01871	COVER (B=E41789)		1						Z
23	1	124240-01871	COVER (B=E41789)		1						Z
24	1	124240-01882	GASKET (B=E41789)		1						Z
25	1	119621-26140	PLUG (B=E41789)		1						Z
26	1	26106-080122	BOLT, M8X 12 PLATED (B=E41789)		4						Z
27	1	26106-080402	BOLT, M8X 40 PLATED (B=E41789)		4						Z
28	1	121023-01550	COVER		1						
29	1	24341-000260	O-RING, 1AS26.0		1						
29-1	1	24341-000240	O-RING, 1AS24.0 (B=E25030)		1						
30	1	26106-060182	BOLT, M6X 18 PLATED		2						

Remarks
(1)Ref.No.1-1,5-1 and 12-1 are interchangeable by set.

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.48. LUB.OIL SUMP

(D)=
(E)=

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

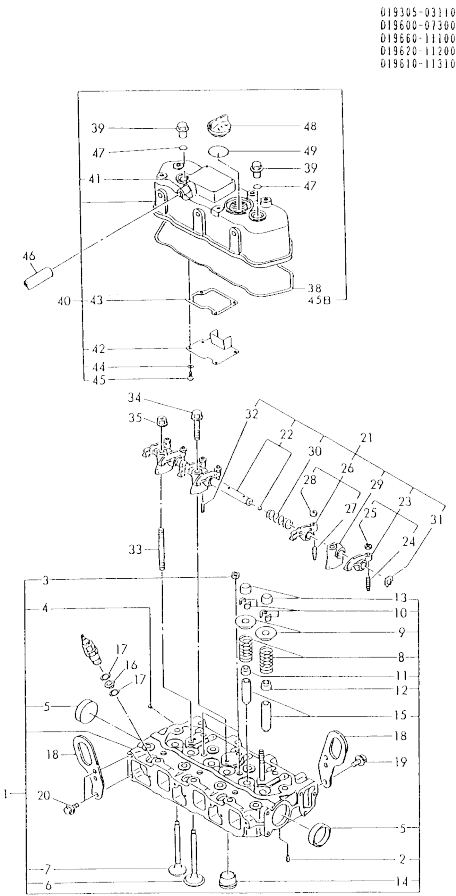
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	719631-01540	SUMP ASSY, OIL		1						
2	2	171301-01640	PLUG, 22		1						
3	2	24341-000240	O-RING, 1AS24.0		1						
4	1	119600-01722	SPACER, OIL SUMP		1						
5	1	26106-060122	BOLT, M6X 12 PLATED		3						
6	1	26106-060452	BOLT, M6X 45 PLATED		20						
7	1	119620-01620	PIN, M6X10		2						
8	1	119660-01640	CASE ASSY, OIL SEAL (B=E41789)		1						W
9	2	124085-02220	SEAL, OIL		1						
10	1	26106-060222	BOLT, M6X 22 PLATED		10						
11	1	119646-39910	JOINT, PIPE		1						
12	1	119646-39920	HOSE, DRAIN		1						
13	1	119646-39930	SPRING, PROTECTE		1						
14	1	23414-220000	GASKET, 22X1.0 (B=E17350)		2						W
15	1	23857-180000	BOLT, JOINT 18 (B=E17350)		1						W
16	1	23010-025000	CLAMP, 25 (B=E21469)		2						W

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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OCD10-M41702

Fig.49. CYLINDER HEAD & BONNET



Remarks
(1)REPAIR PART.

OCD10-M41702 Fig.49

(A)=
(B)=3TNA72L-UKS
(C)=

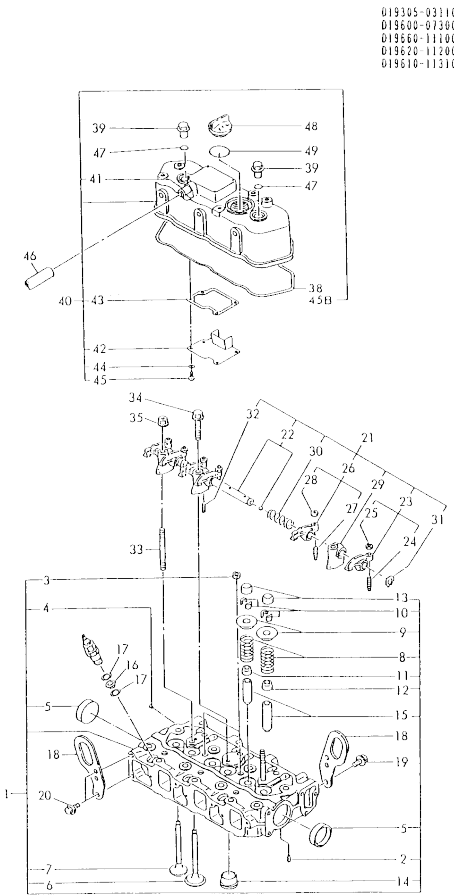
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719660-11700	HEAD ASSY, CYLINDER		1						
2	2	22351-060012	PIN, SPRING 6.0X12		2						
3	2	121850-11860	PLUG, PT1/4		2						
4	2	27221-050080	PLUG, 5X 8		1						
5	2	27241-400000	PLUG, 40		2						
6	2	119620-11100	VALVE, INTAKE		3						
7	2	119620-11110	VALVE, EXHAUST		3						
8	2	119620-11120	SPRING, VALVE		6						
9	2	119620-11180	RETAINER, SPRING		6						
10	2	101158-11190	COTTER		6						
10-1	2	27310-070001	COTTER, 7		6						N
(B=EXXXXXX)											
11	2	124950-11340	SEAL, VALVE STEM		3						
12	2	124160-11340	SEAL, VALVE STEM		3						
13	2	104211-11370	CAP, VALVE		6						
14	2	119656-11410	PLUG, HOT		3						
15	1	119620-11801	GUIDE, VALVE		6						1
16	1	119600-11450	PROTECTOR, NOZZLE		3						
17	1	119600-11460	GASKET, NOZZLE		6						
18	1	119260-07900	LIFTER		2						
19	1	26106-080142	BOLT, M8X 14 PLATED		1						
20	1	26106-080142	BOLT, M8X 14 PLATED		2						
21	1	119620-11200	SUPPORT ASSY, ARM		1						
22	2	119620-11240	SHAFT ASSY, ROCKER		1						
23	2	719620-11650	ARM ASSY, ROCKER		3						
24	3	105010-11230	SCREW, VALVE ADJUST		3						
25	3	26756-060002	NUT, LOCK M6		3						
26	2	719620-11660	ARM ASSY, ROCKER		3						
27	3	105010-11230	SCREW, VALVE ADJUST		3						
28	3	26756-060002	NUT, LOCK M6		3						
29	2	119620-11260	SUPPORT, ROCKER ARM		3						
30	2	119620-11280	SPRING		2						
31	2	22242-000120	RING, 12		2						
32	2	26979-050162	SCREW, M5X16		1						
33	1	119620-11350	STUD		2						
34	1	26106-080452	BOLT, M8X 45 PLATED		1						
35	1	26366-080002	NUT, M8		2						
38	1	119620-11310	GASKET, BONNET		1						Z
39	1	124160-11360	KNOB		2						
40	1	719620-11520	BONNET ASSY, HEAD		1						
40-1	1	119620-11330	BONNET ASSY, HEAD		1						N
40-2	1	119620-11331	BONNET ASSY, HEAD		1						N
40-3	1	719620-11521	BONNET ASSY, HEAD		1						R
41	2	119620-11390	JOINT		1						
41-1	2	118400-03060	JOINT, BREATHER		1						R
42	2	119620-03020	PLATE, SHELTER		1						
43	2	119620-03030	GASKET		1						
43-1	2	119620-03031	GASKET		1						R
44	2	22217-050000	WASHER, SPRING 5		4						Z
45	2	26557-050102	SCREW, M5X10		4						
45-1	2	22857-500100	SCREW, 5X10		4						R

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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0CD10-M41702

Fig.49. CYLINDER HEAD & BONNET



Remarks
(1)REPAIR PART.

0CD10-M41702 Fig.49

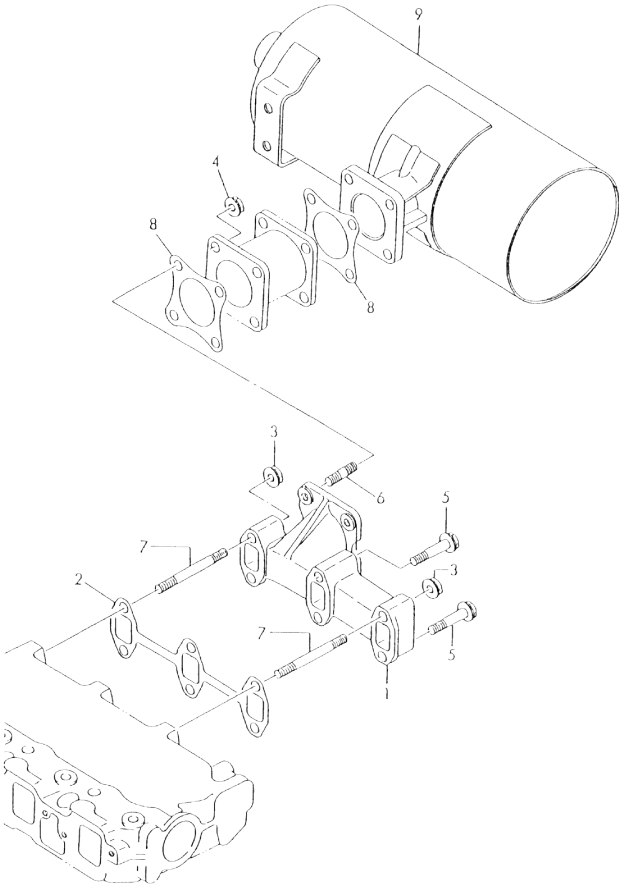
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
45B	2	119620-11310	GASKET, BONNET		1						W
46	1	23065-120500	PIPE, 12X 500		1						
47	1	24311-000120	O-RING, 1AP12.0		2						
48	1	124160-01751	COVER, FILLER		1						
49	1	24311-000320	O-RING, 1AP32.0		1						

N:Old $\frac{YES}{NO}$ New, Q:Old $\frac{R/O}{YES}$ New, R:Old $\frac{YES}{YES}$ New, S:Old $\frac{R/O}{YES}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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0CD10-M41702

Fig.51. EXHAUST MANIFOLD & SILENCER

019600-13200
019646 93010



0CD10-M41702 Fig.51

(A)=
(B)=3TNA72L-UKS
(C)=

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

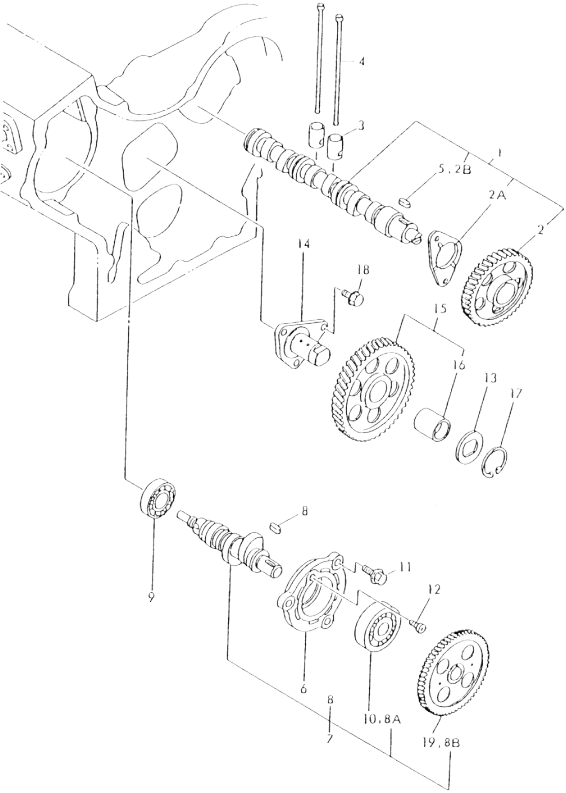
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119600-13100	MANIFOLD, EXHAUST		1						
2	1	119620-13110	GASKET		1						
3	1	194990-22050	NUT, M8		2						
4	1	194990-22050	NUT, M8		4						
5	1	26106-080402	BOLT, M8X 40 PLATED		4						
6	1	26216-080222	STUD, M8X 22		4						
7	1	26216-080552	STUD, M8X 55		2						
8	1	121000-13200	GASKET, SILENCER		2						
9	1	119640-13500	SILENCER		1						

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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OCD10-M41702

Fig.52. CAMSHAFT & DRIVING GEAR

019629-14100
019660-25101
719646-51310



OCD10-M41702 Fig.52

(A)=
(B)=3TNA72L-UKS
(C)=

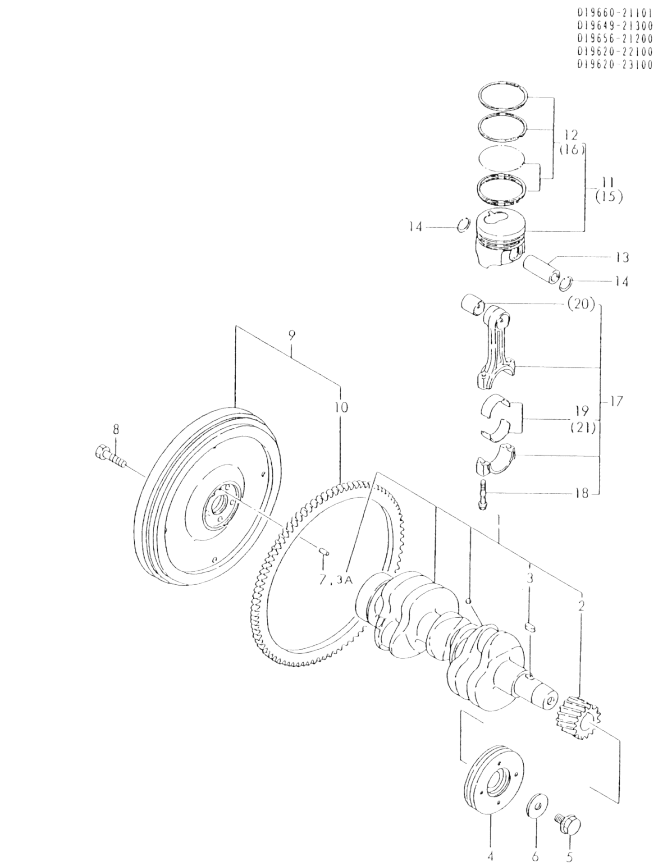
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119629-14580 (B=E41789)	CAMSHAFT ASSY		1						W
2	2	119620-14100	GEAR, CAMSHAFT		1						
2A	2	119620-02450 (B=E41789)	BEARING, THRUST		1						W
2B	2	22512-040120 (B=E41789)	KEY, 4X 12		1						W
3	1	119620-14200	TAPPET		6						
4	1	119620-14400	ROD, PUSH		6						
5	1	22512-040120 (B=E41789)	KEY, 4X 12		1						Z
6	1	119660-01821	BEARING, FUEL CAM		1						
7	1	719660-14590 (B=E41789)	CAMSHAFT		1						W
8	2	22512-040120 (B=E41789)	KEY, 4X 12		1						
8A	2	24102-063034	BEARING, BALL 6303U		1						W
8B	2	119660-25902 (B=E41789)	GEAR, PUMP		1						W
9	1	24101-062034	BEARING, BALL 6203		1						
10	1	24102-063034 (B=E41789)	BEARING, BALL 6303U		1						Z
11	1	26106-060162	BOLT, M6X 16 PLATED		3						
12	1	26587-080102	SCREW, M8X10		1						
13	1	119660-25022	RETAINER		1						
14	1	119660-25052	SHAFT, IDLE		1						
15	1	119620-25102	GEAR ASSY, IDLE		1						
16	1	119620-25912	BUSH		1						1
17	1	22242-000200	RING, 20		1						
18	1	26106-060122	BOLT, M6X 12 PLATED		3						
19	1	119660-25902 (B=E41789)	GEAR, PUMP		1						Z

Remarks
(1)REPAIR PART.

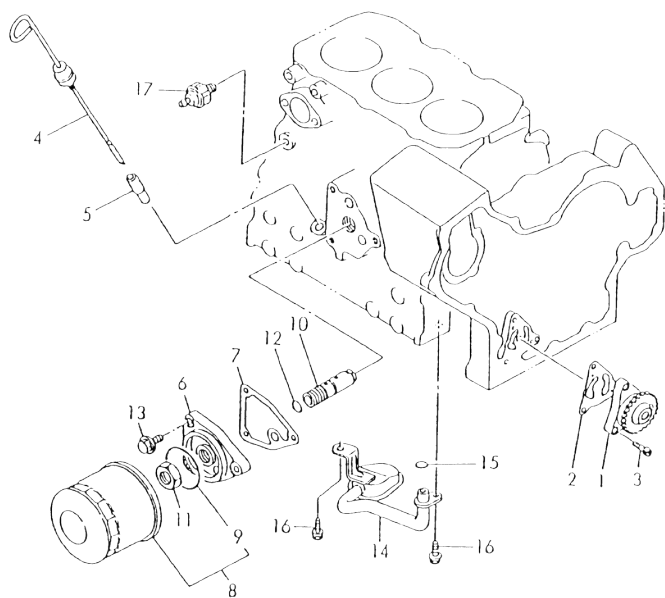
N:Old $\frac{YES}{NO}$ New, Q:Old $\frac{YES}{NO}$ New, R:Old $\frac{YES}{NO}$ New, S:Old $\frac{YES}{NO}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.53. CRANKSHAFT & PISTON



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

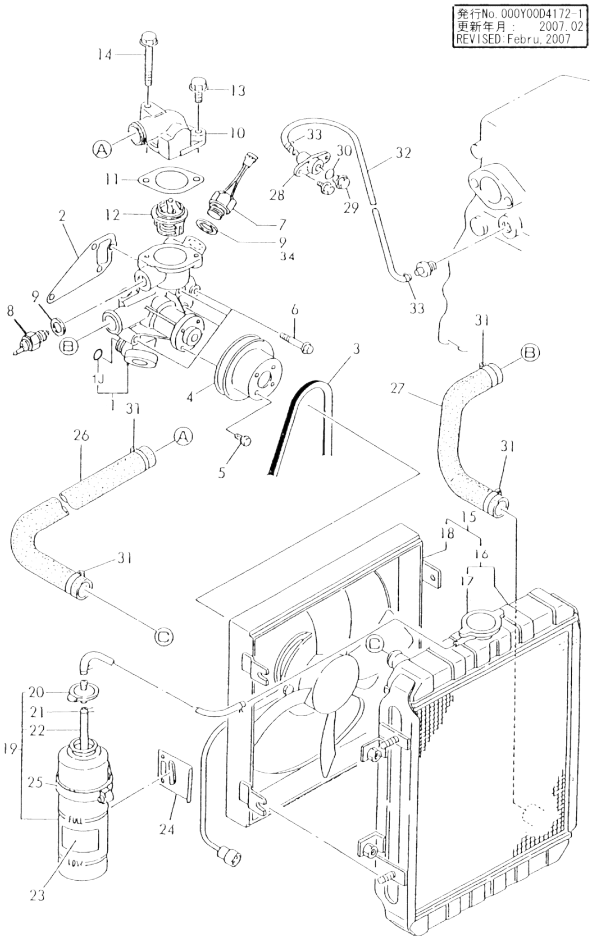
OCD10-M41702 Fig.53									
(A)= (B)=3TNA72L-UKS (C)=									
(D)= (E)= (F)=									
Q'ty									
(A) (B) (C) (D) (E) (F)									
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)
1	1	719660-21701	CRANKSHAFT ASSY		1				
1-1	1	719660-21700	CRANKSHAFT ASSY		1				N
(B=EXXX)									
2	2	119660-21201	GEAR, CRANKSHAFT		1				
3	2	22512-040120	KEY, 4X 12		1				
3A	2	129100-01580	PIN, M8X16		1				W
(B=*1990.)									
4	1	119621-21650	V-PULLEY		1				
4-1	1	119649-21650	V-PULLEY		1				N
(B=EXXX)									
5	1	119621-21680	BOLT, FLANGE 12X1.25		1				
6	1	119620-21941	WASHER		1				
7	1	129100-01580	PIN, M8X16		1				Z
(B=*1990.)									
8	1	119620-21500	BOLT, FLYWHEEL		5				
9	1	119656-21591	FLYWHEEL ASSY		1				
10	2	129350-21600	GEAR, RING		1				
11	1	119620-22090	PISTON ASSY		3				
12	2	719620-22501	RING SET, PISTON		3				
12-1	2	719620-22500	RING SET, PISTON		3				R
(B=EXXX)									
13	1	119620-22300	PIN, PISTON		3				
14	1	22252-000210	RING, 21		6				
15	1	719620-22820	PISTON ASSY, 0.25 OS		3				1
16	2	719620-22540	RING SET, 0.25 OS		3				1
17	1	719620-23100	ROD ASSY, CONNECTING		3				
18	2	105225-23200	BOLT, CONNECTING ROD		6				
19	2	719620-23600	BEARING, CRANK PIN		3				
20	1	119620-23910	BEARING, PISTON PIN		3				2
21	1	719620-23610	BEARING ASSY, 0.25		3				3



D19660-32100
D19600-34110
D19600-35100
D19600-35210
D19600-39100

				0CD10-M41702 Fig.54							
				(A)= (B)=3TNA72L-UKS (C)=	(D)= (E)= (F)=						
No.	Lev.	Parts No.	Description	Q'ty							I R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119660-32001	PUMP ASSY, OIL		1						
2	1	119660-32020	GASKET, PUMP		1						
3	1	26450-060202	BOLT, M&X 20		3						
4	1	119600-34800	DIPSTICK, OIL		1						
5	1	121520-34810	GUIDE, DIPSTICK		1						
6	1	119660-35102	BRACKET, FILTER		1						
7	1	119660-35112	GASKET		1						
7-1	1	119660-35113	GASKET		1						R
(B=E39286)											
8	1	119660-35150	FILTER, LUB. OIL		1						
9	2	124450-35110	O-RING		1						
10	1	119660-35300	VALVE ASSY, CONTROL		1						
11	1	129150-35350	NUT		1						
12	1	24311-000160	O-RING, 1AP16.0		1						
13	1	26106-080202	BOLT, M8X 20 PLATED		3						
14	1	119600-35081	PIPE ASSY, OIL INLET		1						
15	1	24311-000120	O-RING, 1AP12.0		1						
16	1	26106-060102	BOLT, M6X 10 PLATED		2						
17	1	124160-39450	SWITCH, 0.5KG		1						

Fig.55. COOLING WATER SYSTEM

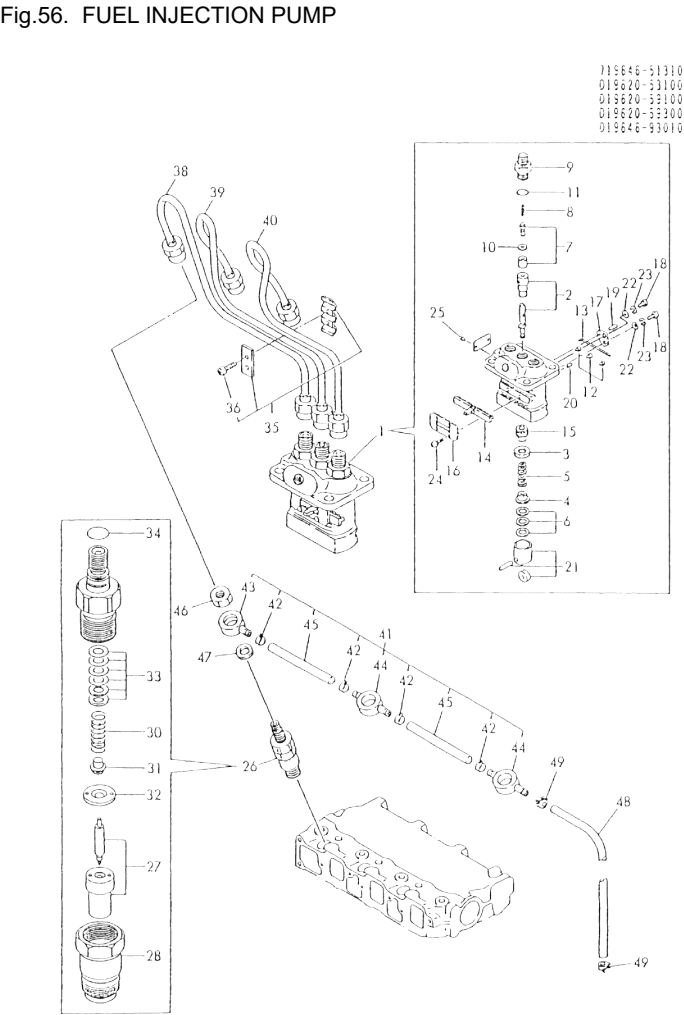


(A)=
(B)=3TNA72L-UKS
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119660-42003	PUMP ASSY, WATER		1						
1-1	1	119660-42004	PUMP ASSY, WATER		1						R
(B=E39286)											
1J	2	119620-42320	O-RING		1						
2	1	119620-42020	GASKET, WATER PUMP		1						
3	1	119640-42290	V-BELT, FM36.5		1						
4	1	119660-42350	V-PULLEY		1						
5	1	26106-060102	BOLT, M6X 10 PLATED		4						
6	1	26106-080452	BOLT, M8X 45 PLATED		4						
7	1	119646-44900	SWITCH, 80		1						
7-1	1	119646-44901	SWITCH, 70		1						N
(B=E46741)											
8	1	121250-44901	SWITCH, 110		1						
9	1	124465-44950	GASKET, 16		2						
9-1	1	124465-44950	GASKET, 16		1						K
(B=E46741)											
10	1	124101-49530	COVER, THERMOSTAT		1						
11	1	129350-49540	GASKET		1						
11-1	1	129350-49541	GASKET		1						R
(B=E41789)											
12	1	129350-49800	THERMOSTAT, 71		1						
13	1	26106-080252	BOLT, M8X 25 PLATED		1						
14	1	26106-080552	BOLT, M8X 55 PLATED		1						
15	1	119646-44510	FAN		1						
15-1	1	119646-44511	RADIATOR ASSY		1						N
(B=E46741)											
16	2	119646-44520	RADIATOR		1						
16-1	2	119646-44521	RADIATOR		1						N
(B=E46741)											
17	3	XR904110700	CAP, RADIATOR		1						
18	2	119646-44530	FAN		1						
19	1	121450-44510	TANK ASSY, SUB		1						
20	2	121450-44530	CAP		1						
21	2	124450-44560	RETAINER		1						
22	2	23065-070180	PIPE, 7X 180		1						
23	1	121470-44540	LABEL, SUB-TANK		1						
24	1	121256-44600	BRACKET, SUB TANK		1						
25	1	124450-44550	BAND		1						
26	1	119646-49020	PIPE, WATER		1						
27	1	119646-49030	PIPE, WATER		1						
28	1	121521-49100	BODY ASSY, COCK		1						
29	1	121250-49121	PLUG, DRAIN		1						
30	1	24311-000160	O-RING, 1AP16.0		1						
31	1	23010-038000	CLAMP, 38		4						
32	1	171022-49160	PIPE, DRAIN L=650		1						
33	1	124766-59050	CLIP, HOSE 12		2						
34	1	43400-500490	SEAL WASHER 16S		1						W
(B=E46741)											

Fig.56. FUEL INJECTION PUMP



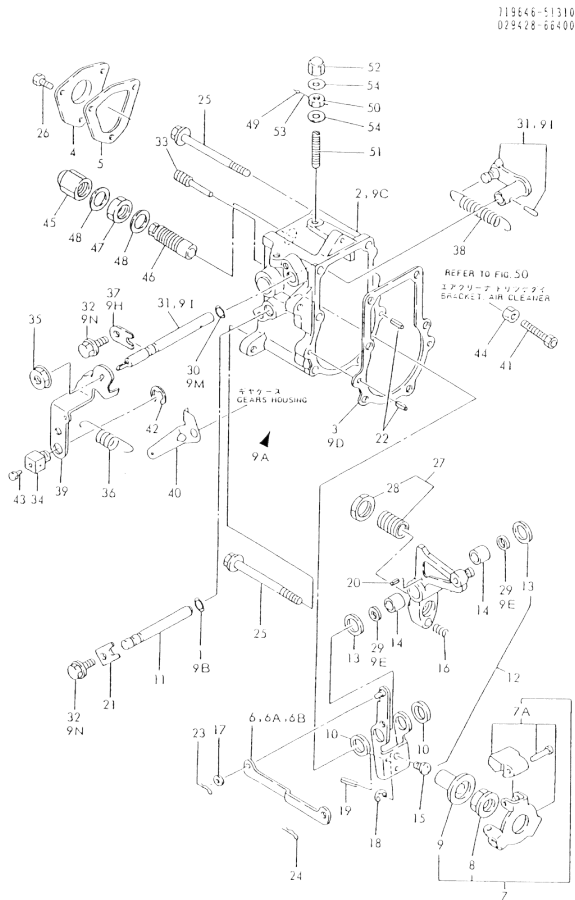
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719621-51100	PUMP ASSY, INJECTION		1						
2	2	119620-51101	PLUNGER ASSY		3						
3	2	119620-51170	RETAINER, SPRING A		3						
4	2	119620-51180	RETAINER, SPRING B		3						
5	2	119620-51190	SPRING, PLUNGER		3						
6	2	119620-51250	SHIM SET		3						
7	2	119620-51300	VALVE ASSY, DELIVERY		3						
8	2	105546-51330	SPRING, DELIVERY		3						
9	2	119620-51340	HOLDER, DELIVERY		3						
10	2	119620-51350	GASKET		3						
11	2	119620-51370	O-RING		3						
12	2	119620-51450	PIECE		3						
13	2	119620-51461	PIN		1						
14	2	119660-51500	RACK, CONTROL		1						
15	2	119620-51510	PINION		3						
16	2	119660-51530	RETAINER, RACK		1						
17	2	119620-51650	PLATE		2						
18	2	119620-51660	SCREW		2						
19	2	119620-51670	PIN		2						
20	2	119620-51680	PIN		1						
21	2	119620-51700	TAPPET ASSY		3						
22	2	22137-040000	WASHER, 4		2						
23	2	22217-040000	WASHER, SPRING 4		2						
24	2	26022-040082	SCREW, M4X 8		4						
25	2	26587-040102	SCREW, M4X10		2						
26	1	719620-53100	VALVE ASSY, INJECTION		3						
27	2	119620-53000	VALVE ASSY, INJECTION		3						
28	2	119620-53080	NUT, NOZZLE		3						
30	2	119620-53120	SPRING, NOZZLE		3						
31	2	114250-53130	SEAT, SPRING		3						
32	2	119620-53140	SPACER, VALVE STOP		3						
33	2	114250-53400	SHIM SET		3						
34	2	129155-61830	O-RING, S10		3						
35	1	129150-59120	RETAINER, PIPE		1						
36	2	129150-59130	BOLT, M4X12		2						
38	1	119620-59811	PIPE ASSY, INJECTION		1						
39	1	119620-59821	PIPE ASSY, INJECTION		1						
40	1	119620-59831	PIPE ASSY, INJECTION		1						
41	1	119620-59540	PIPE ASSY, FUEL		1						
42	2	124066-59100	CLIP, HOSE 8		4						
43	2	129155-59520	JOINT		1						
43-1	2	119260-59520	JOINT		1						N
(B=E17350)											
44	2	129155-59530	JOINT		2						
44-1	2	119260-59530	JOINT		2						N
(B=E17350)											
45	2	105025-59550	PIPE, FUEL RETURN		2						
46	1	119620-59700	NUT, NOZZLE		3						
47	1	23414-140000	GASKET, 14X1.0		3						
48	1	23780-041300	HOSE, FUEL 4X1300		1						
49	1	124066-59100	CLIP, HOSE 8		2						

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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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

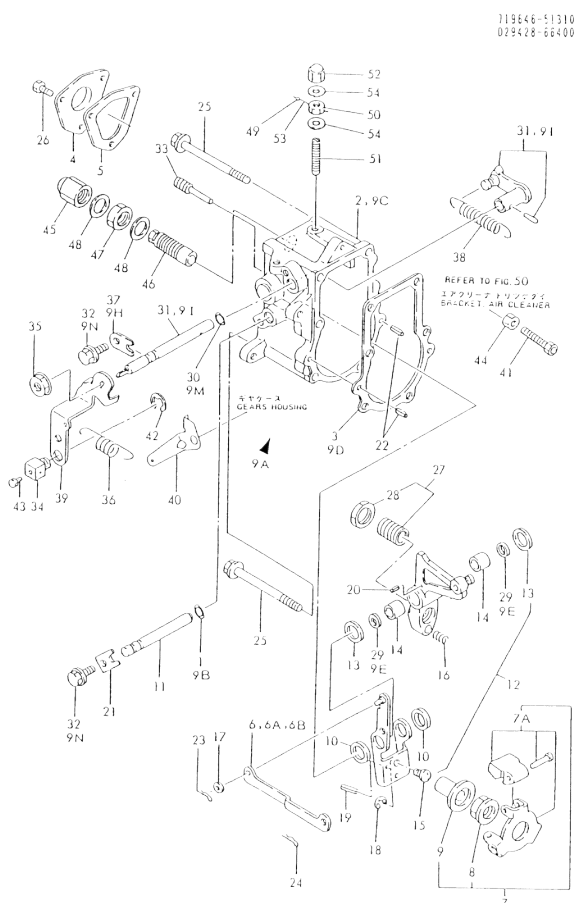
Fig.58. GOVERNOR



Remarks
(1) REPAIR PART

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129155-51280 (B=EXXX)	O-RING, S6		1					Z	
2	1	119660-61013 (B=EXXX)	CASE, GOVERNOR		1					Z	
3	1	119660-61051 (B=EXXX)	GASKET		1					Z	
4	1	119660-61060	COVER, GOVERNOR CASE		1						
5	1	119660-61070	GASKET		1						
5-1	1	119660-61071	GASKET		1					R	
6	1	119660-61121 (B=E39286)	LINK, NO MARK		1						
6A	1	119660-61140	LINK, MARK :2		1						1
6B	1	119660-61150	LINK, MARK :3		1						1
7	1	119600-61100 (B=EXXX)	DRIVE ASSY		1					W	
7A	2	119600-61200	WEIGHT ASSY,GOVERNOR		1						
8	2	119660-61300	NUT		1						
9	2	119660-61341	SLEEVE		1						
9A	1	119610-61200 (B=EXXX)	CASE ASSY, GOVERNOR		1					W	
9B	2	129155-51280 (B=EXXX)	O-RING, S6		1					W	
9C	2	119660-61013 (B=EXXX)	CASE, GOVERNOR		1					W	
9D	2	119660-61051 (B=EXXX)	GASKET		1					W	
9D-1	2	119660-61052 (B=EXXX)	GASKET		1					N	
9E	2	119660-61460 (B=EXXX)	SHIM SET		1					W	
9H	2	119600-61900 (B=EXXX)	RETAINER, SHAFT		1					W	
9I	2	119621-66091 (B=EXXX)	SHAFT ASSY		1					W	
9M	2	24341-000070 (B=EXXX)	O-RING, 1AS7.0		1					W	
9N	2	26106-060102 (B=EXXX)	BOLT, M6X 10 PLATED		2					W	
10	1	129155-61480 (B=EXXX)	SPACER ASSY		2						
11	1	119660-61491	SHAFT		1						
12	1	119656-61500	LEVER ASSY, GOVERNOR		1						
13	2	174307-51700	SHIM SET		2						
14	2	121450-61520	BEARING, NEEDLE 8		2						
15	2	119600-61540	SHIFTER		1						
16	2	119660-61651	SPRING, STARTING		1						
17	2	22117-040000	WASHER, 4		1						
18	2	22272-000040	RING, E- 4		1						
19	2	22351-020004	PIN, SPRING 2.0X 4		1						
20	2	22351-030014	PIN, SPRING 3.0X14		1						
21	1	119660-61901	RETAINER, SHAFT		1						
22	1	22351-040010	PIN, SPRING 4.0X10		2						

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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No.	Lev.	Parts No.	Description	Qty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
23	1	22360-040000	PIN, SNAP 4		1						
24	1	22360-060000	PIN, SNAP 6		1						
25	1	26106-060702	BOLT, M6X 70 PLATED		6						
26	1	26116-050102	BOLT, M5X 10 PLATED		3						
27	1	119600-66720	ANGLEICH ASSY		1						
28	2	129155-61590	NUT, LOCK		1						
29	1	119660-61460	SHIM SET		1						Z
		(B=EXXX)									
30	1	24341-000070	O-RING, 1AS7.0		1						Z
		(B=EXXX)									
31	1	119621-66091	SHAFT ASSY		1						Z
		(B=EXXX)									
32	1	26106-060102	BOLT, M6X 10 PLATED		2						Z
		(B=EXXX)									
33	1	124250-03640	SCREW		1						
34	1	124066-03770	RETAINER		1						
35	1	194990-22050	NUT, M8		1						
36	1	119840-61870	SPRING		1						
37	1	119600-61900	RETAINER, SHAFT		1						Z
		(B=EXXX)									
38	1	119600-66020	SPRING, REGULATOR		1						
39	1	119640-66051	HANDLE, REGULATOR		1						
40	1	119656-66910	HOOK		1						
41	1	102100-67080	BOLT, ADJUSTING		1						
42	1	22272-000050	RING, E- 5		1						
43	1	26116-040088	BOLT, M4X 8 PLATED		1						
44	1	26756-060002	NUT, LOCK M6		1						
45	1	129100-61930	NUT, CAP		1						
46	1	119600-66530	LIMITER ASSY, FUEL		1						
47	1	124772-66750	NUT, LOCK M12		1						
48	1	43400-500450	SEAL WASHER 12S		2						
49	1	135210-61090	LEAD		1						
50	1	124550-66370	NUT, M6		1						
51	1	121575-66830	SCREW		1						
52	1	119600-66840	NUT, CAP		1						
53	1	22451-060000	WIRE, 0.6		1						
54	1	43400-500400	SEAL WASHER 6		2						

Remarks
(1) REPAIR PART

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

Fig.59. STARTING MOTOR

(A)=
(B)=3TNA72L-UKS
(C)=

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

Q'ty

I R

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	124976-77011	STARTER, S114-349A		1						
2	2	X211451007	ARMATURE ASSY		1						
3	3	X211415502	BEARING, BALL		1						
4	3	X211425502	BEARING, BALL		1						
5	2	X211472106	COIL ASSY, FIELD		1						
6	3	X21148215	SCREW, POLE CORE		4						
7	3	X21143315	BRUSH (+)		2						
8	2	X211483003	COVER		1						
9	2	X211429007	HOLDER ASSY, BRUSH		1						
10	3	X21148314	SPRING, BRUSH		4						
11	3	X211459002	BRUSH (-)		2						
12	2	X211476504	HOUSING ASSY, GEAR		1						
13	2	X211414501	HOUSING, CENTER		1						
14	2	X211447007	SWITCH, MAGNETIC		1						
15	2	X21146012	LEVER, SHIFT		1						
16	2	X211448004	COVER KIT		1						
17	2	X211468005	BOLT, THROUGH		2						
18	2	X21145866	BOLT		2						
19	2	X21142867	BOLT		3						
20	2	X211415505	CLUTCH ASSY		1						
21	3	X211495009	SHAFT		1						
22	3	X211429006	STOPPER SET		1						
23	3	X211425505	CLUTCH ASSY		1						
24	4	X211435502	BALL BEARING		1						
25	4	X211445502	BALL BEARING		1						
26	1	129100-01580	PIN, M8X16		2						
27	1	121476-01620	BOLT		2						
28	1	119656-77041	BRACKET, STARTER		1						
29	1	26206-100202	BOLT, M10X 20 PLATED		6						
30	1	26716-120002	NUT, M12		2						

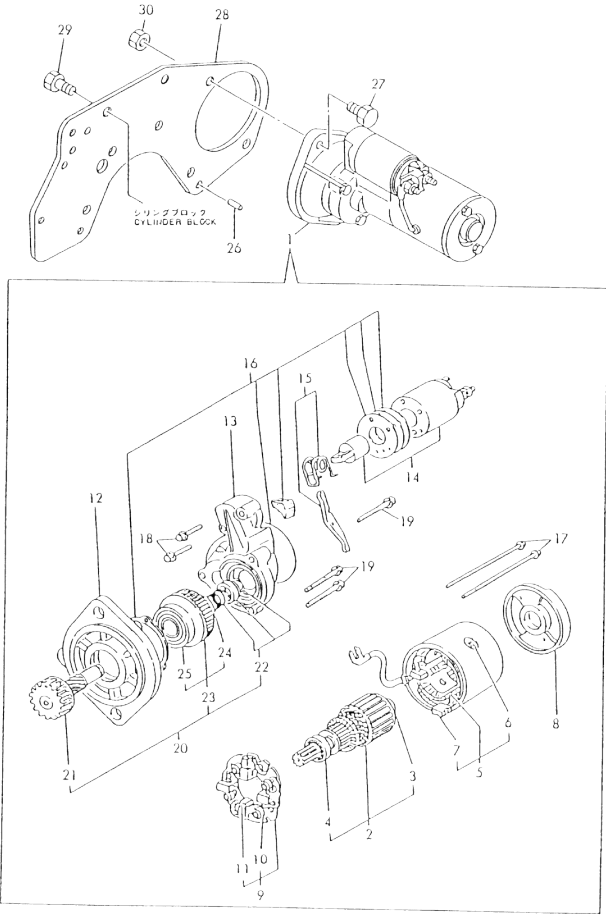
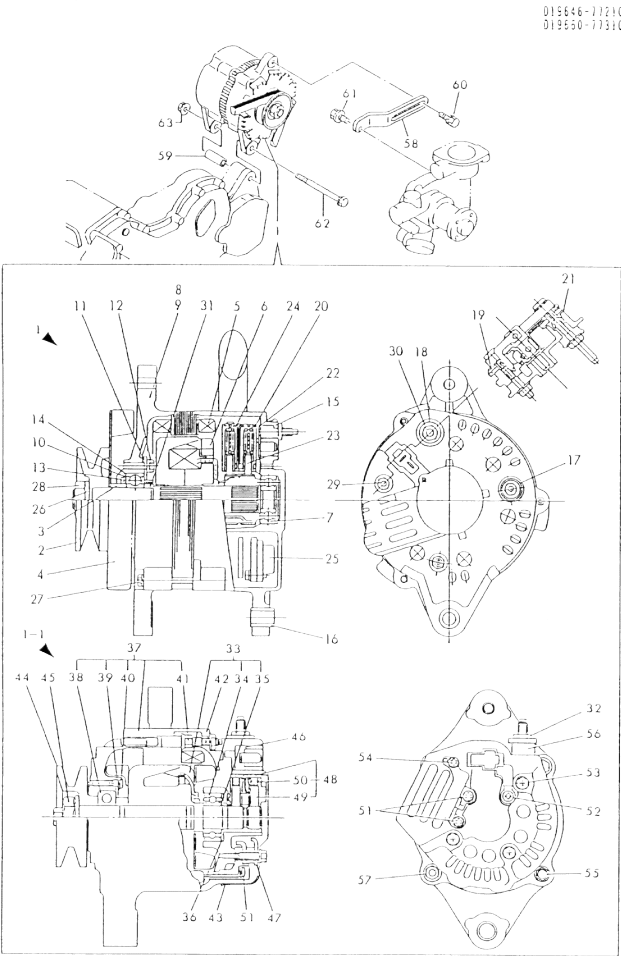


Fig.60. GENERATOR



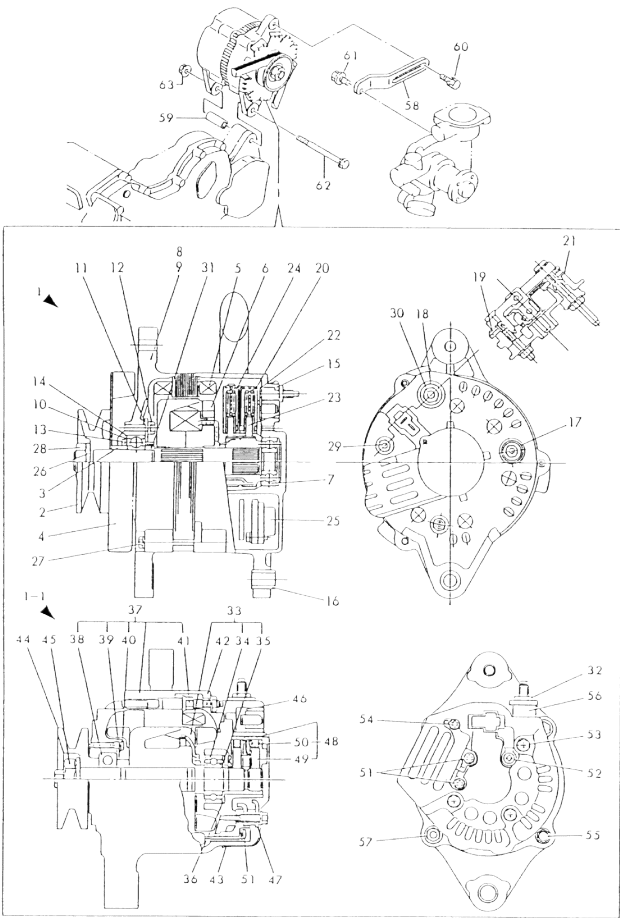
015646-77210
019550-77310

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119620-77200	GENERATOR, 12V-35A		1						
1-1	1	119620-77201	GENERATOR, 40A (B=E25030)		1						N
2	2	X0210412581	PULLEY (B=E25030)		1						Z
3	2	X0210450040	COLLAR (B=E25030)		1						Z
4	2	X0210510800	FAN (B=E25030)		1						Z
5	2	X0211000880	STATOR (B=E25030)		1						Z
6	2	X0212000480	ROTOR (B=E25030)		1						Z
7	3	X9491000350	BEARING (B=E25030)		1						Z
8	2	X0214002010	FRAME ASSY (B=E25030)		1						Z
9	3	X0214011671	FRAME (B=E25030)		1						Z
10	3	X0214050010	COVER (B=E25030)		1						Z
11	3	X0214110280	PLATE (B=E25030)		1						Z
12	3	X9480070010	SCREW (B=E25030)		3						Z
13	3	X9490200230	FELT (B=E25030)		1						Z
14	3	X9491000340	BEARING (B=E25030)		1						Z
15	2	X0215014560	FRAME, REAR (B=E25030)		1						Z
16	3	X0215410321	BUSH (B=E25030)		1						Z
17	2	X0216050291	INSULATION (B=E25030)		1						Z
18	2	X0216050301	INSULATION (B=E25030)		1						Z
19	2	X0219972990	SERVICE KIT (B=E25030)		1						Z
20	3	X0216202141	HOLDER ASSY (B=E25030)		1						Z
21	4	X0216050890	INSULATION (B=E25030)		2						Z
22	4	X0216250180	WASHER (B=E25030)		1						Z
23	4	X0216600130	BRUSH (B=E25030)		2						Z
24	4	X9491700570	SPRING (B=E25030)		2						Z
25	2	X0260007000	REGULATOR ASSY (B=E25030)		1						Z

N:Old $\frac{NOS}{100}$ New, Q:Old $\frac{HIS}{100}$ New, R:Old $\frac{HIS}{100}$ New, S:Old $\frac{HIS}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
++ CONTINUE ++
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Fig.60. GENERATOR

015646-77210
019550-77310



(A)=
(B)=3TNA72L-UKS
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
26	2	X9025814001 (B=E25030)	WASHER		1					Z	
27	2	X9480420910 (B=E25030)	BOLT		3					Z	
28	2	X9490501080 (B=E25030)	NUT		1					Z	
29	2	X9490560990 (B=E25030)	NUT		3					Z	
30	2	X9490561001 (B=E25030)	NUT		1					Z	
31	2	X9491920900 (B=E25030)	COLLAR		1					Z	
32	2	X9490561001 (B=E25030)	NUT		1					W	
33	2	119620-77380 (B=E25030)	ROTOR ASSY		1					W	
34	3	119620-79240 (B=E25030)	BEARING, BALL		1					W	
35	3	119620-79250 (B=E25030)	COVER		1					W	
36	3	119620-79360 (B=E25030)	WASHER, THRUST		1					W	
37	2	119620-77420 (B=E25030)	FLAME ASSY, DRIVE		1					W	
38	3	119620-79200 (B=E25030)	BEARING, BALL		1					W	
39	3	119620-79210 (B=E25030)	PLATE, RETAINER		1					W	
40	3	119620-79220 (B=E25030)	SCREW		4					W	
41	3	119620-79230 (B=E25030)	STUD		2					W	
42	2	119620-77440 (B=E25030)	FRAME ASSY		1					W	
43	2	119620-77450 (B=E25030)	COVER		1					W	
44	2	119620-77460 (B=E25030)	PULLEY,CRANKSHAFT		1					W	
45	2	119620-77470 (B=E25030)	NUT		1					W	
46	2	119620-77710 (B=E25030)	REGULATOR ASSY		1					W	
47	2	119620-79260 (B=E25030)	HOLDER		1					W	
48	2	119620-79270 (B=E25030)	HOLDER, BRUSH		1					W	
49	3	119620-77480 (B=E25030)	BRUSH ASSY		2					W	
50	3	119620-79280 (B=E25030)	SPRING		2					W	
51	2	119620-79290 (B=E25030)	SCREW		6					W	

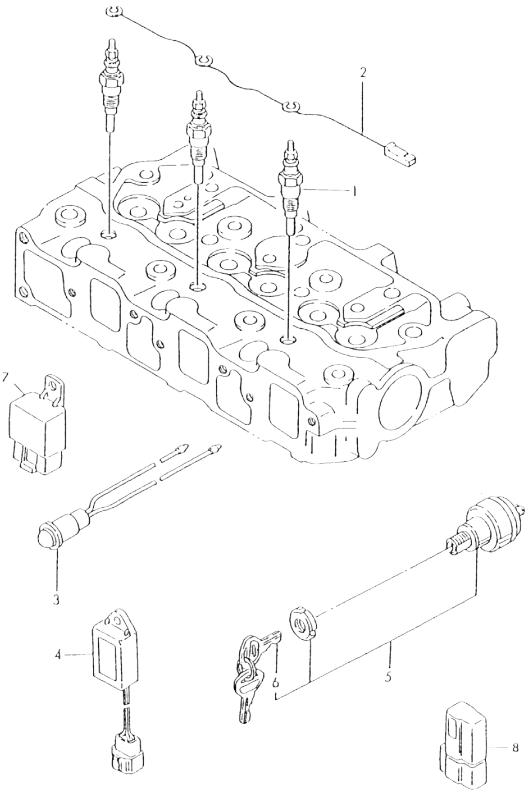
N:Old $\frac{100}{100}$ New, Q:Old $\frac{100}{100}$ New, R:Old $\frac{100}{100}$ New, S:Old $\frac{100}{100}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
++ CONTINUE ++
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N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change

Fig.61. ELECTRIC PART

019654-77310
019650-77700
019646-53010

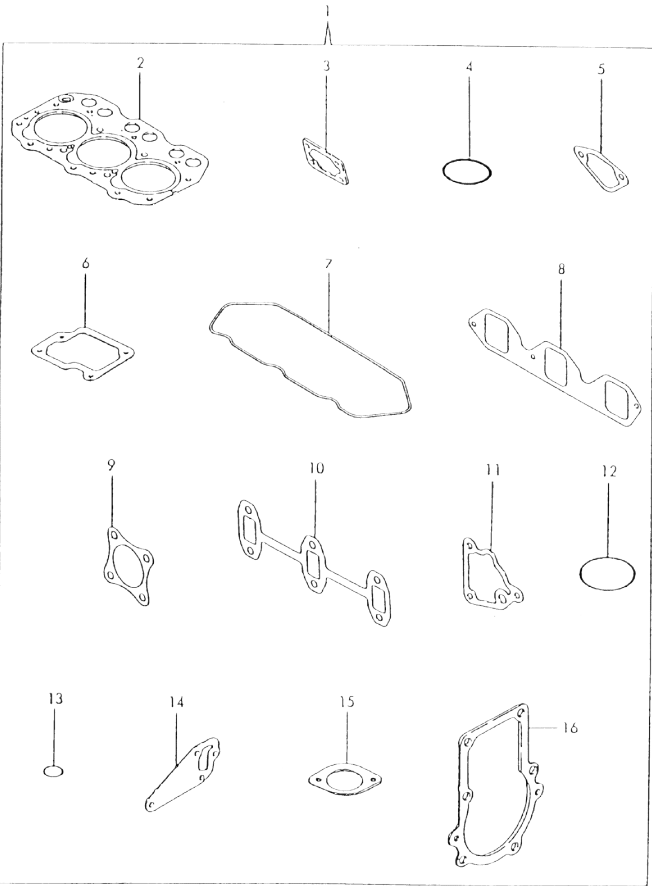


(A)=
(B)=3TNA72L-UKS
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129795-77800	PLUG, GLOW		3						
2	1	119645-77820	CONNECTOR, GLOW PLUG		1						
3	1	124732-77720	LAMP, CHARGING		1						
4	1	128300-77920	TIMER		1						
5	1	121400-91251	SWITCH, STARTER		1						
6	2	121400-91271	KEY, SWITCH		2						
7	1	119247-77100	RELAY, SAFETY		1						W
(B=E31403)											
8	1	119643-66900	DIODE		1						W
(B=E31406)											

Fig.62. GASKET SET(OPTIONAL)



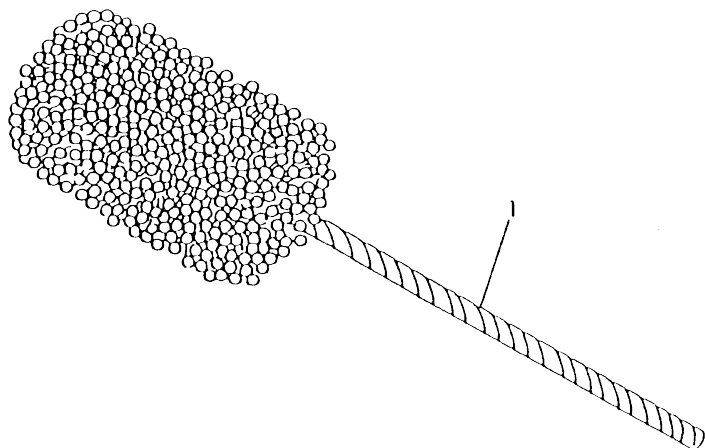
Remarks
(1)OPTIONAL PART.

(A)=
(B)=3TNA72L-UKS
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719685-92600	GASKET SET		1						1
1-1	1	719685-92601	GASKET SET (B=EXXX)		1					N	1
2	2	119610-01340	GASKET, HEAD		1						
3	2	119660-01561	GASKET		1						
3-1	2	119660-01562	GASKET		1					R	
(B=E39286)											
4	2	121420-01760	O-RING		2						
4-1	2	24311-000320	O-RING, 1AP32.0		2					N	
(B=E21469)											
5	2	121520-01850	GASKET		1						
5-1	2	121520-01851	GASKET		1					R	
(B=E39286)											
6	2	119620-03030	GASKET		1						
6-1	2	119620-03031	GASKET		1					R	
(B=E39286)											
7	2	119620-11310	GASKET, BONNET		1						
8	2	119660-12111	GASKET, MANIFOLD		1						
9	2	121000-13200	GASKET, SILENCER		2						
10	2	119620-13110	GASKET		1						
11	2	119660-35112	GASKET		1						
11-1	2	119660-35113	GASKET		1					R	
(B=E39286)											
12	2	124450-35110	O-RING		1						
13	2	24311-000160	O-RING, 1AP16.0		1						
14	2	119620-42020	GASKET, WATER PUMP		1						
15	2	129350-49540	GASKET		1						
15-1	2	129350-49541	GASKET		1					R	
(B=E41789)											
16	2	119660-61051	GASKET		1						
16-1	2	119660-61052	GASKET		1					N	
(B=EXXX)											

Fig.63. SPECIAL TOOL(OPTIONAL)



(A)=
(B)=3TNA72L-UKS
(C)=

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

[illegible]

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

Parts No. Index

Parts No.	Fig. No.	Ref. No.
101158-11190	7	10
	49	10
101304-59020	34	1
	57	1
101720-55750	32	10
	57	18
102100-67080	36	41
	58	41
102103-55520	32	6
	57	14
103854-59191	34	5
	57	5
104200-55321	32	2
	57	10
104200-55330	32	3
	57	11
104200-55341	32	4
	57	12
104200-55750	32	11
	57	19
104200-59170	34	4
	44	21
	57	4
104211-11370	7	12
	49	13
104264-59030	34	2
	57	2
104884-59170	1	16
	46	17
105010-11230	8	4
		7
	49	24
		27
105025-59550	35	5
	56	45
105225-23200	18	3
	53	18
105546-51330	29	9
	56	8
105582-59150	34	3
	57	3
110250-55610	32	7
	57	15
114250-53130	31	6
	56	31
114250-53400	31	8
	56	33
118400-03060	49	41 -1
119247-77100	41	8
	61	7

Parts No.	Fig. No.	Ref. No.
119260-07900	6	1
	49	18
119260-59520	35	3 -1
	56	43 -1
119260-59530	35	4 -1
	56	44 -1
119600-01050	1	2 -1
	46	2 -1
119600-01501	2	1
	47	1
119600-01721	5	4
119600-01722	5	4 -1
	48	4
119600-11410	7	13
119600-11450	7	14
	49	16
119600-11460	7	15
	44	8
	49	17
119600-13100	13	1
	51	1
119600-22091	17	1
119600-22092	17	1 -1
119600-34800	22	1
	54	4
119600-35081	23	8
	54	14
119600-52021	30	2
	57	23
119600-61100	36	7
	58	7
119600-61200	36	7 A
	58	7 A
119600-61540	36	15
	58	15
119600-61900	36	9 H
		37
	58	9 H
	37	
119600-66020	36	38
	58	38
119600-66530	37	1
	58	46
119600-66720	36	27
	58	27
119600-66840	37	8
	58	52
119610-01340	46	14
	62	2
119610-01490	2	1 -1

Parts No.	Fig. No.	Ref. No.
119610-01490	47	1 -1
119610-01590	2	3 -1
	47	5 -1
119610-61200	36	9 A
	58	9 A
119620-01200	1	13
	46	13
119620-01620	4	3 -1
	48	7
119620-01800	2	3 B
		5
	47	6
119620-01950	2	7
	47	8
119620-02020	1	7
	46	7
119620-02410	1	10
	46	10
119620-02450	1	11
	14	2 B
	46	11
	52	2 A
119620-03020	9	7
	49	42
119620-03030	9	8
	44	6
	49	43
	62	6
119620-03031	9	8 -1
	44	6 -1
	49	43 -1
	62	6 -1
119620-11100	7	6
	49	6
119620-11110	7	7
	49	7
119620-11120	7	8
	49	8
119620-11180	7	9
	49	9
119620-11200	8	1
	49	21
119620-11240	8	2
	49	22
119620-11260	8	9
	49	29
119620-11280	8	10
	49	30
119620-11310	9	3
		10 B

Parts No.	Fig. No.	Ref. No.
119620-11310	44	10
	49	38
		45 B
	62	7
119620-11330	9	5 -1
	49	40 -1
119620-11331	49	40 -2
119620-11350	8	13
	49	33
119620-11390	9	6
	49	41
119620-11801	49	15
119620-13110	13	2
	44	12
	51	2
	62	10
119620-14100	14	2 C
		4
	52	2
119620-14200	14	5
	52	3
119620-14400	14	6
	52	4
119620-21500	16	1
	53	8
119620-21941	15	6
	53	6
119620-22090	53	11
119620-22300	17	3
	53	13
119620-23100	18	2
119620-23910	53	20
119620-25062	19	4
119620-25102	19	3
	52	15
119620-25912	52	16
119620-42020	25	2
	44	17
	55	2
	62	14
119620-42320	25	1 J
	55	1 J
119620-51101	29	2
	56	2
119620-51170	29	3
	56	3
119620-51180	29	4
	56	4
119620-51190	29	5
	56	5

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Parts No.	Fig. No.	Ref. No.
119620-51250	29	7
	56	6
119620-51300	29	8
	56	7
119620-51340	29	10
	56	9
119620-51350	29	11
	56	10
119620-51370	29	12
	56	11
119620-51450	29	13
	56	12
119620-51461	29	14
	56	13
119620-51510	29	16
	56	15
119620-51650	29	18
	56	17
119620-51660	29	19
	56	18
119620-51670	29	20
	56	19
119620-51680	29	21
	56	20
119620-51700	29	6
	56	21
119620-53000	31	2
	56	27
119620-53080	31	3
	56	28
119620-53120	31	5
	56	30
119620-53140	31	7
	56	32
119620-59540	35	1
	56	41
119620-59700	35	6
	56	46
119620-59810	33	3
119620-59811	33	3 -1
	56	38
119620-59820	33	4
119620-59821	33	4 -1
	56	39
119620-59830	33	5
119620-59831	33	5 -1
	56	40
119620-77200	39	1
	43	1
	60	1

Parts No.	Fig. No.	Ref. No.
119620-77201	39	1 -1
	43	1 -1
	60	1 -1
119620-77380	43	33
	60	33
119620-77420	43	37
	60	37
119620-77440	43	42
	60	42
119620-77450	43	43
	60	43
119620-77460	43	44
	60	44
119620-77470	43	45
	60	45
119620-77480	43	49
	60	49
119620-77710	43	46
	60	46
119620-79200	43	38
	60	38
119620-79210	43	39
	60	39
119620-79220	43	40
	60	40
119620-79230	43	41
	60	41
119620-79240	43	34
	60	34
119620-79250	43	35
	60	35
119620-79260	43	47
	60	47
119620-79270	43	48
	60	48
119620-79280	43	50
	60	50
119620-79290	43	51
	60	51
119620-79300	43	52
	60	52
119620-79310	43	53
	60	53
119620-79320	43	54
	60	54
119620-79330	43	55
	60	55
119620-79340	43	56
	60	56
119620-79350	43	57

Parts No.	Fig. No.	Ref. No.
119620-79350	60	57
119620-79360	43	36
	60	36
119621-01520	2	3
	47	5
119621-21650	15	4
	53	4
119621-21680	15	5
	53	5
119621-26140	3	10
	47	25
119621-66091	36	9 I
	31	
	58	9 I
	31	
119621-77340	39	3
	60	59
119629-14580	14	2
	52	1
119640-12561	10	9
	50	9
119640-12580	10	10
	50	10
119640-12590	10	8
	50	8
119640-13500	12	2
	51	9
119640-42290	25	3
	55	3
119640-66051	36	39
	58	39
119643-66900	41	7
	61	8
119645-77820	40	2
	61	2
119646-12550	10	7
	50	7
119646-12560	10	12
	50	12
119646-12570	10	13
	50	13
119646-39910	5	7
	48	11
119646-39920	5	8
	48	12
119646-39930	5	9
	48	13
119646-44500	26	2
119646-44510	55	15
119646-44511	55	15 -1

Parts No.	Fig. No.	Ref. No.
119646-44520	55	16
119646-44521	55	16 -1
119646-44530	55	18
119646-44700	26	1
119646-44900	27	3 -1
	55	7
119646-44901	27	3 -2
	55	7 -1
119646-49010	28	1
119646-49020	28	2
	55	26
119646-49030	55	27
119649-21650	15	4 -1
	53	4 -1
119654-12500	10	1
	50	1
119656-01340	1	14
	44	2
119656-01900	1	15
	46	15
119656-11410	49	14
119656-21591	16	2
	53	9
119656-61500	36	12
	58	12
119656-66910	36	40
	58	40
119656-77041	38	3
	59	28
119660-01510	2	2
	47	2
119660-01551	3	1
	47	16
119660-01561	3	2
	44	3
	47	17
	62	3
119660-01562	3	2 -1
	44	3 -1
	47	17 -1
	62	3 -1
119660-01570	3	3
	47	18
119660-01640	4	1
	48	8
119660-01821	14	1
	52	6
119660-01911	2	6
	47	7
119660-12101	11	1

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Parts No.	Fig. No.	Ref. No.
119660-12101	50	20
119660-12111	11	2
	44	11
	50	21
	62	8
119660-14092	14	3
119660-21201	15	2
	53	2
119660-25022	19	1
	52	13
119660-25052	19	2
	52	14
119660-25902	14	10 C
	20	1
	52	8 B
		19
119660-32001	21	1
	54	1
119660-32020	21	2
	44	14
	54	2
119660-35102	23	1
	54	6
119660-35112	23	2
	44	16
	54	7
	62	11
119660-35113	23	2 -1
	44	16 -1
	54	7 -1
	62	11 -1
119660-35150	23	3
	54	8
119660-35300	23	5
	54	10
119660-42003	25	1
	55	1
119660-42004	25	1 -1
	55	1 -1
119660-42350	25	4
	55	4
119660-51500	29	15
	56	14
119660-51530	29	17
	56	16
119660-61013	36	2
		9 C
	58	2
		9 C
119660-61051	36	3

Parts No.	Fig. No.	Ref. No.
119660-61051	58	3
		9 D
	62	16
119660-61052	36	9 D
	58	9 D-1
	62	16 -1
119660-61060	36	4
	58	4
119660-61070	36	5
	58	5
119660-61071	36	5 -1
	58	5 -1
119660-61121	36	6
	58	6
119660-61140	36	6 A
	58	6 A
119660-61150	36	6 B
	58	6 B
119660-61300	36	8
	58	8
119660-61341	36	9
	58	9
119660-61460	36	9 E
		29
	58	9 E
		29
119660-61491	36	11
	58	11
119660-61651	36	16
	58	16
119660-61901	36	21
	58	21
119660-77330	39	2
	60	58
119840-61870	36	36
	58	36
119860-12510	10	3
	50	3
119860-12550	10	4
	50	4
119860-12560	10	5
	50	5
121000-13200	12	1
	44	13
	51	8
	62	9
121023-01550	3	13
	47	28
121250-44901	27	1
	55	8

Parts No.	Fig. No.	Ref. No.
121250-49121	28	4
	55	29
121250-55620	32	8
	57	16
121254-55510	32	5
	57	13
121254-55600	32	1
	57	9
121256-44600	26	9
	55	24
121400-91251	41	5
	61	5
121400-91271	41	6
	61	6
121420-01760	3	5
	9	2
	44	4
		9
	47	20
	62	4
121450-01560	2	2 A
		4
	47	3
121450-44510	26	4
	55	19
121450-44530	26	5
	55	20
121450-61520	36	14
	58	14
121470-44540	26	8
	55	23
121476-01620	38	1
	59	27
121520-01850	30	1
	44	20
	57	22
	62	5
121520-01851	30	1 -1
	44	20 -1
	57	22 -1
	62	5 -1
121520-34810	22	2
	54	5
121521-49100	28	3
	55	28
121522-77101	41	1
121525-59090	34	7
	57	7
121550-49111	1	17
	46	16

Parts No.	Fig. No.	Ref. No.
121575-66830	37	7
	58	51
121850-11860	7	3
	49	3
124066-03770	36	34
	58	34
124066-59100	35	2
		9
	56	42
		49
124085-02220	4	2
	48	9
124101-49530	27	4
	55	10
124160-01750	9	1
124160-01751	3	4
	9	1 -1
		1 -2
		10 A
	47	19
	49	48
124160-01900	1	2
124160-01910	46	2
124160-11340	7	11 A
	44	29
	49	12
124160-11360	9	4
	49	39
124160-39450	24	1
	54	17
124240-01871	3	7
		8
	47	22
		23
124240-01882	3	9
	44	5
	47	24
124250-03640	36	33
	58	33
124450-35110	23	4
	44	15
	54	9
	62	12
124450-44550	26	10
	55	25
124450-44560	26	6
	55	21
124465-44950	27	2
		2 -1
	44	19

Parts No. Index

Parts No.	Fig. No.	Ref. No.	Parts No.	Fig. No.	Ref. No.	Parts No.	Fig. No.	Ref. No.	Parts No.	Fig. No.	Ref. No.
124465-44950	44	19 -1	129155-61590	36	28	22242-000200	52	17	23414-140000	35	7
	55	9		58	28	22252-000210	17	4		44	23
		9 -1	129155-61830	31	9		53	14		56	47
124550-55700	32	9		56	34	22272-000040	36	18	23414-220000	5	10
	57	17	129350-21600	16	3		58	18		48	14
124550-66370	37	6		53	10	22272-000050	36	42	23418-060000	32	12
	58	50	129350-49540	27	5		58	42		57	20
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