



PARTS CATALOG

Published

2009/7 (Jul.)

0CNP4-G43700

Directions for the Parts Catalog.

1. The parts stipulated in this Parts Catalog are not necessarily standard equipped parts.
2. Parts may change without prior notice.
3. The following is an example of the Parts Catalog format.

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(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 Mark

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

Symbol	Interchangeability	Contents note
N	Old $\begin{matrix} \leftarrow \text{Yes} \\ \text{No} \rightarrow \end{matrix}$ New	New Part is interchangeable for Old Part but Old Part is not interchangeable for New Part.
Q	Old $\begin{matrix} \leftarrow \text{No} \\ \text{Yes} \rightarrow \end{matrix}$ New	New Part is not interchangeable for Old Part but Old Part is interchangeable for New Part.
R	Old $\begin{matrix} \leftarrow \text{Yes} \\ \text{Yes} \rightarrow \end{matrix}$ New	New/ Old Parts are both interchangeable.
S	Old $\begin{matrix} \leftarrow \text{No} \\ \text{No} \rightarrow \end{matrix}$ New	New/ Old Parts are both not interchangeable.
W		Part discontinued.
Z		Part newly added.
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)	Date

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

Note 2) " XXX " 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 Mark

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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PC NO : 0CNP4-G43700

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5.	FUEL PIPE
6.	AIR CLEANER

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34.	REVERSE IDLE SHAFT
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MODEL : EF227E-233E(
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- 64. CONTRPL VALVE
- 65. RELIEF VALVE
- 66. SUB VALVE
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Fig.No. GROUP NAME

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ACCESSORIES SECTION

- 101. ACCESSORIES

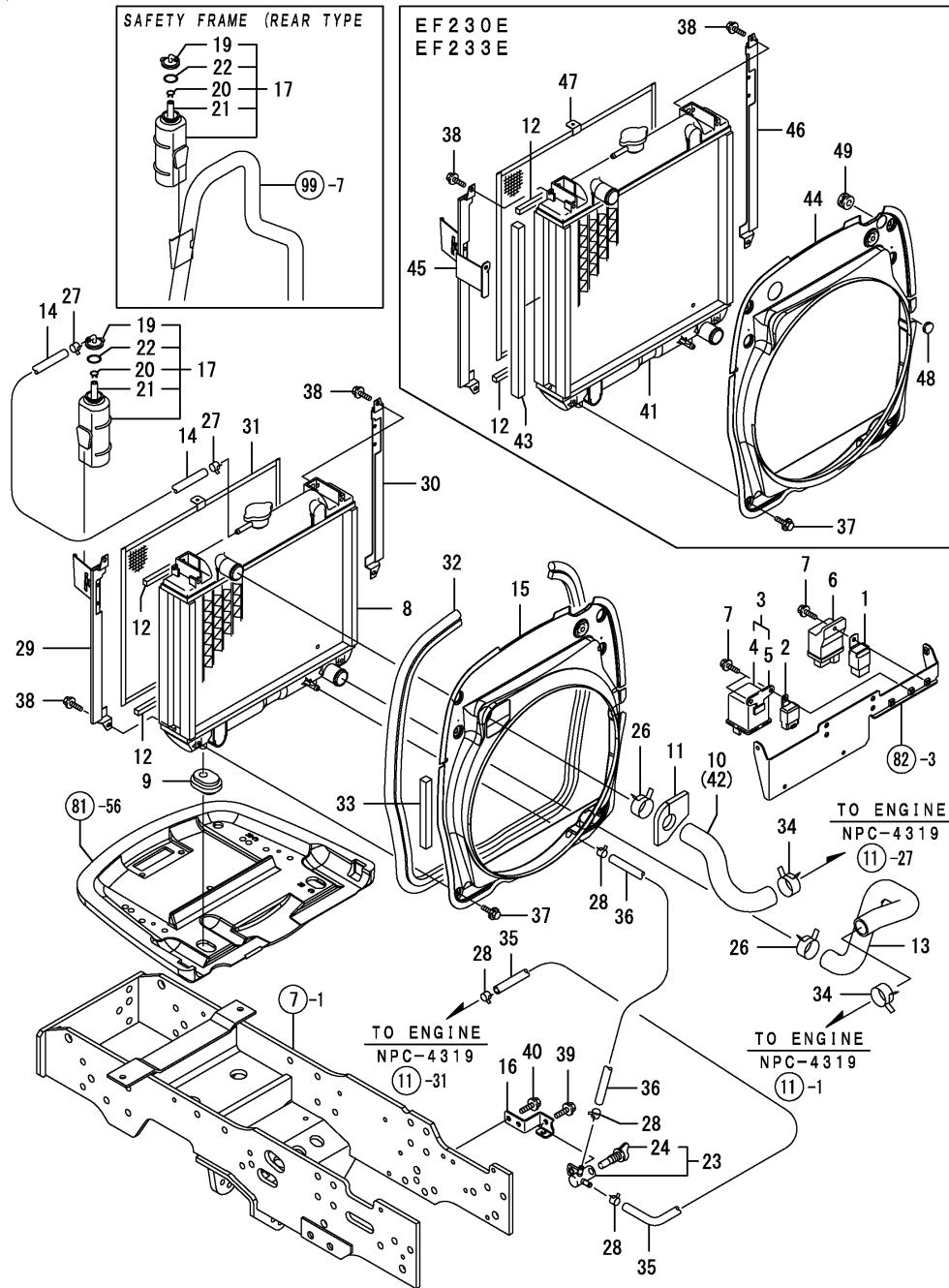
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MODEL : EF227E-233E(
PC NO : 0CNP4-G43700

Fig.No. GROUP NAME
OPTION SECTION
102. LOCK PIN
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Fig.No. GROUP NAME

Fig.1. ENGINE ACCESSORIES



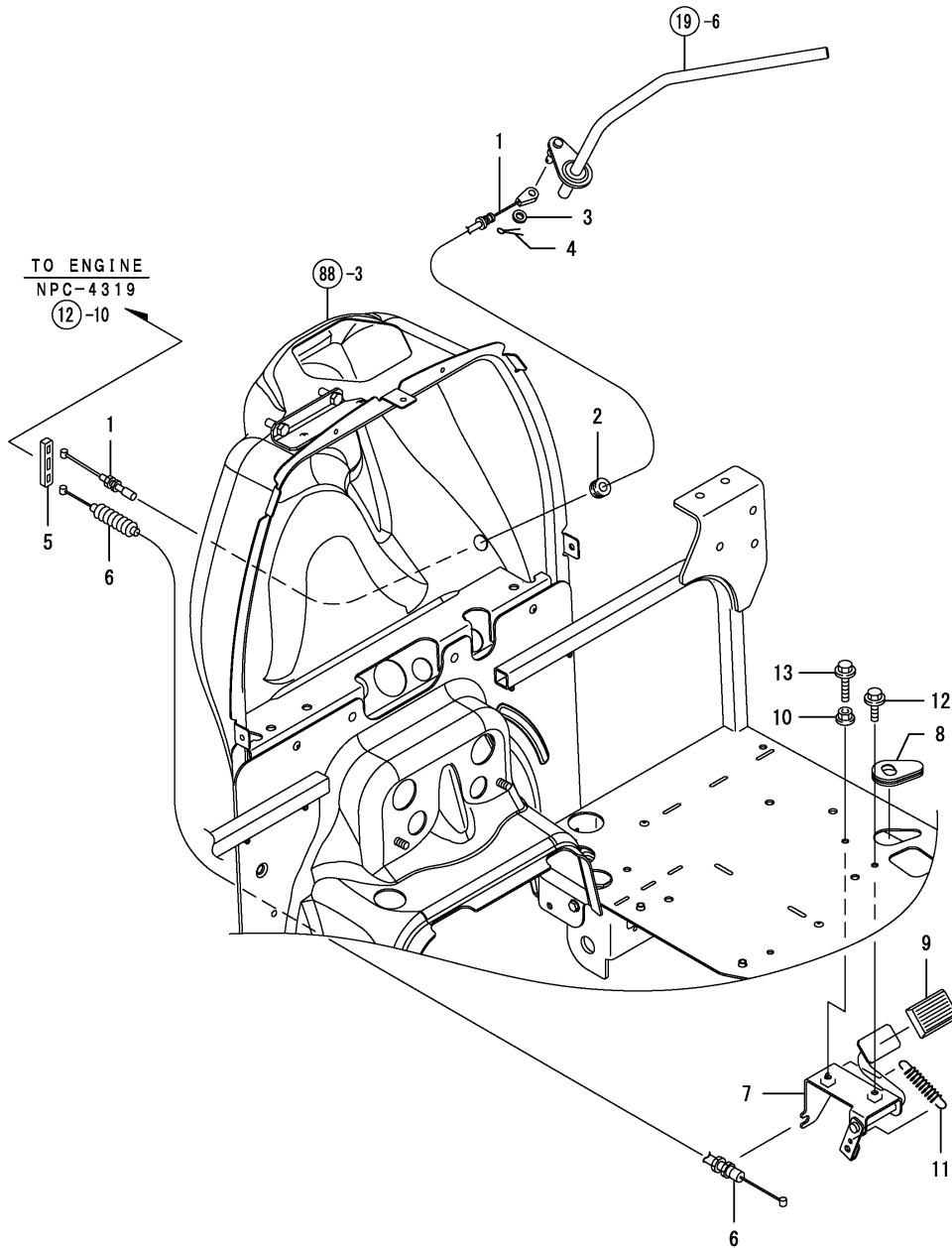
OCNP4-G43700 1. ENGINE ACCESSORIES

(A)=EF227E
(B)=EF230E
(C)=EF233E

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

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198220-52180	RELAY, STARTER	1	1	1					
2	1	198461-52950	RELAY CA,TYPE C	1	1	1					
3	1	119650-77910	RELAY, GROW	1	1	1					
4	2	129052-77920	BODY, RELAY	1	1	1					
5	2	119650-77930	BRACKET, RELAY	1	1	1					
6	1	119852-77910	CONTROLLER,QHS	1	1	1					
7	1	26106-060162	BOLT M 6X 16 PLATED	3	3	3					
8	1	119852-44500	RADIATOR ASSY	1							
9	1	198200-00610	RUBBER, ABSORBER	2	2	2					
10	1	198200-01410	HOSE, COOLING WATER	1							
11	1	198200-01430	SEAL, WATER HOSE	1							
12	1	198200-01440	SEAL,RADIATOR	2	2	2					
13	1	198208-01451	HOSE, COOLING WATER	1	1	1					
14	1	198280-01470	PIPE,WATER DRAIN	1	1	1					
15	1	198200-01510	SHROUD ASSY, FAN	1							
16	1	198200-11351	STAY ASSY, FILTER	1	1	1					
17	1	129263-44510	TANK ASSY, SUB	1	1	1					
19	2	121450-44531	CAP	1	1	1					
20	2	124450-44560	CLAMP	1	1	1					
21	2	23065-070180	PIPE 7X 180	1	1	1					
22	2	121470-44581	GASKET	1	1	1					
23	1	129150-49101	COCK ASSY, 3-WAY	1	1	1					
24	2	129150-49081	COCK, DRAIN	1	1	1					
26	1	175022-49730	CRIP 31, HOSE	2	2	2					
27	1	124766-59050	CLAMP 12	2	2	2					
28	1	124766-59050	CLAMP 12	4	4	4					
29	1	198200-60710	GUIDE ASSY, SCREEN L	1							
30	1	198200-60760	GUIDE, SCREEN R	1							
31	1	198200-60950	SCREEN, RADIATOR	1							
32	1	198200-61950	WEATHER-STRIP, A	1	1	1					
33	1	198200-61980	SEAL, RADIATOR LH	1	1	1					
34	1	23000-035000	CLAMP 35	2	2	2					
35	1	23980-730250	HOSE 7.3X800 BRAIDED	1	1	1					
36	1	23980-730510	HOSE, 7.3 X 510	1	1	1					
37	1	26106-060122	BOLT M 6X 12 PLATED	4	4	4					
38	1	26106-060122	BOLT M 6X 12 PLATED	4	4	4					
39	1	26106-080162	BOLT M 8X 16 PLATED	1	1	1					
40	1	26106-080162	BOLT M 8X 16 PLATED	2	2	2					
41	1	129055-44501	RADIATOR ASSY	1	1	1					
42	1	198208-01410	HOSE, COOLING WATER	1	1						
43	1	198208-01480	URETHANE FOAM,RADIAT	2	2						
44	1	198208-01510	SHROUD ASSY, FAN	1	1						
45	1	198206-60710	GUIDE ASSY, SCREEN L	1	1						
46	1	198206-60760	GUIDE, SCREEN R	1	1						
47	1	198206-60950	SCREEN, RADIATOR	1	1						
48	1	198448-61620	CAP,	1	1						
49	1	194180-61980	GROMMET 24	1	1						

Fig.2. ACCEL LEVER & FOOT ACCELERATOR



OCNP4-G43700 2. ACCEL LEVER & FOOT ACCELERATOR

(A)=EF227E
(B)=EF230E
(C)=EF233E

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

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198200-01150	CABLE, CONTROL	1	1	1					
2	1	198071-58810	GROMMET 8	1	1	1					
3	1	22137-060000	WASHER 6, POLISHED	1	1	1					
4	1	22417-160180	COTTER PIN 1.6X18	1	1	1					
5	1	198071-01160	RUBBER,WIRE RETAINING	1	1	1					
6	1	198200-01210	CABLE, CONTROL	1	1	1					
7	1	198200-01300	CONTROL UNIT, FOOT	1	1	1					
8	1	198071-01390	GROMMET	1	1	1					
9	1	1W3981-14050	RUBBER	1	1	1					
10	1	194990-22130	NUT W/WASHER 6	1	1	1					
11	1	198360-55630	SPRING,RETURN	1	1	1					
12	1	26106-060122	BOLT M 6X 12 PLATED	1	1	1					
13	1	26106-060402	BOLT M 6X 40 PLATED	1	1	1					

Fig.3. EXHAUST

0CNP4-G43700 3. EXHAUST

(A)=EF227E
(B)=EF230E
(C)=EF233E

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

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198200-03110	PIPE, EXHAUST	1							
2	1	198280-05510	PLATE, SHUTTER	1	1	1					
3	1	129052-13550	GASKET,NOZZLE	1	1	1					
4	1	194990-22140	NUT W/WASHER 8	2	2	2					
5	1	22157-080000	WASHER 8	1	1	1					
6	1	26106-080162	BOLT M 8X 16 PLATED	1	1	1					
7	1	26106-080252	BOLT M 8X 25 PLATED	2	2	2					
8	1	198208-03111	PIPE, EXHAUST	1	1						

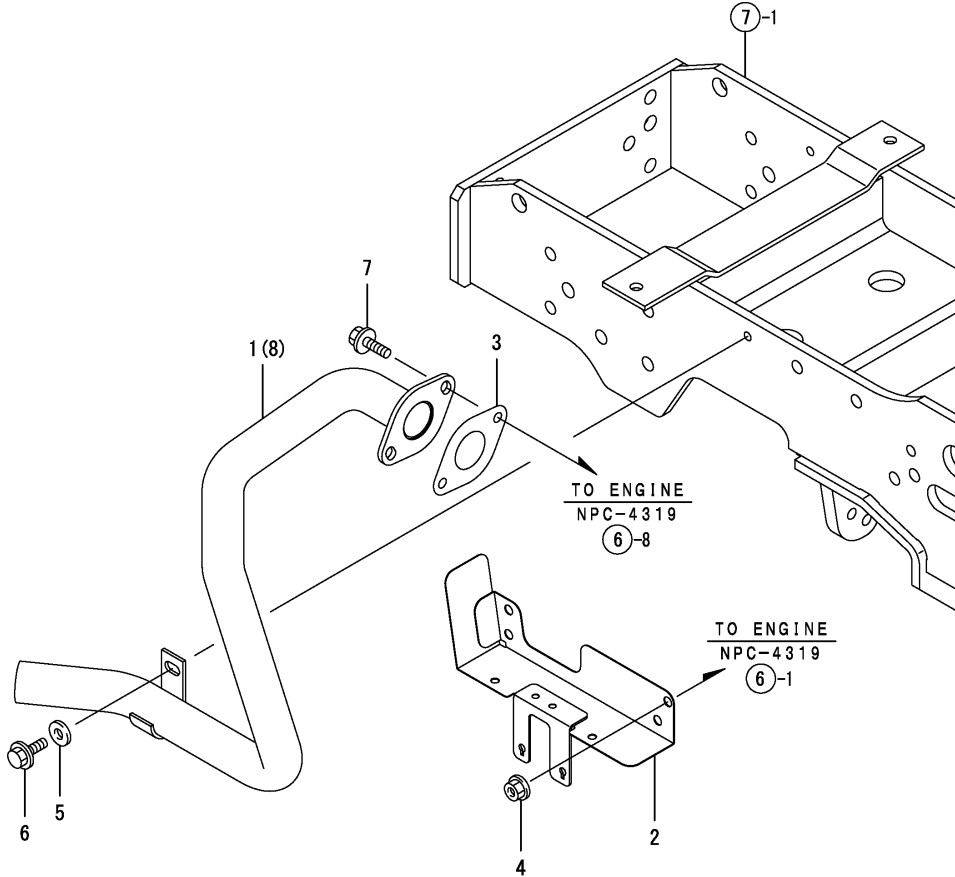
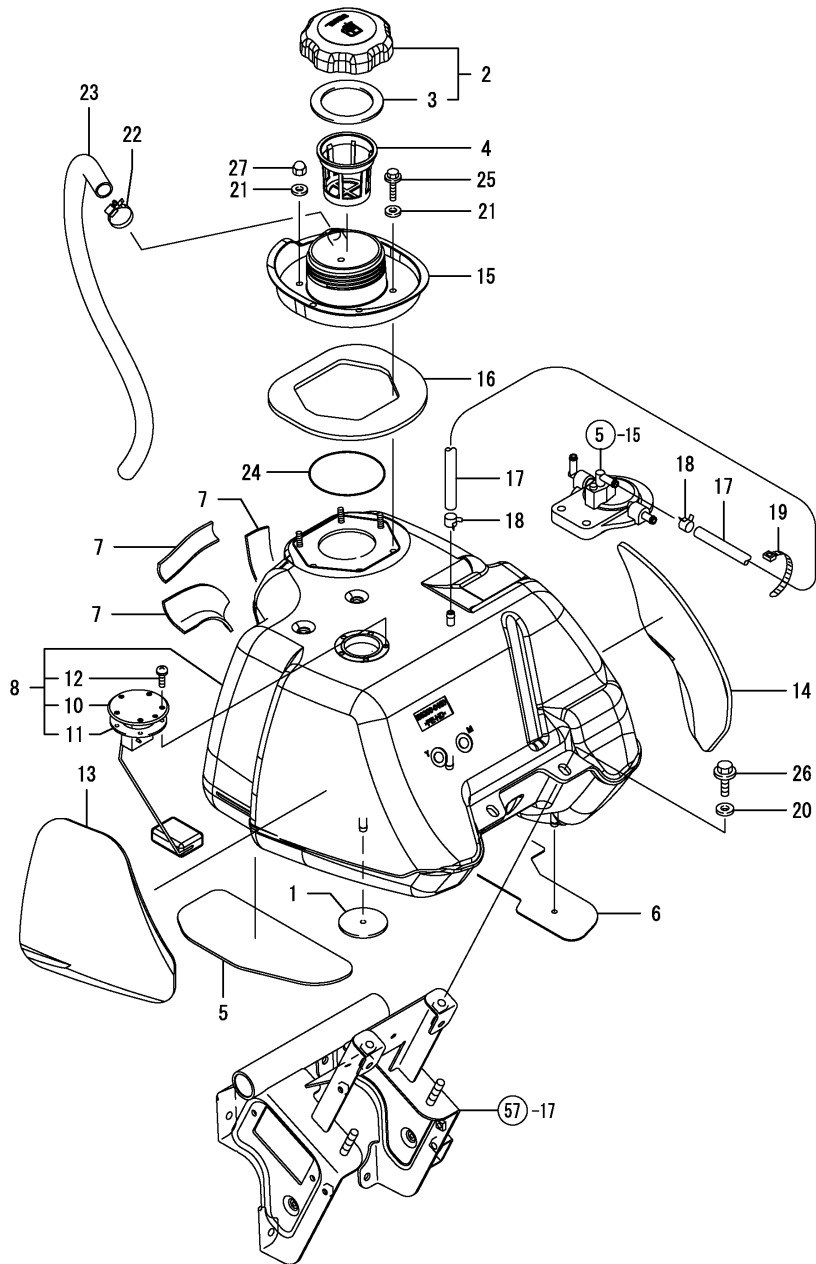


Fig.4. FUEL TANK



OCNP4-G43700 4. FUEL TANK

(A)=EF227E

(B)=EF230E

(C)=EF233E

(D)=

(E)=

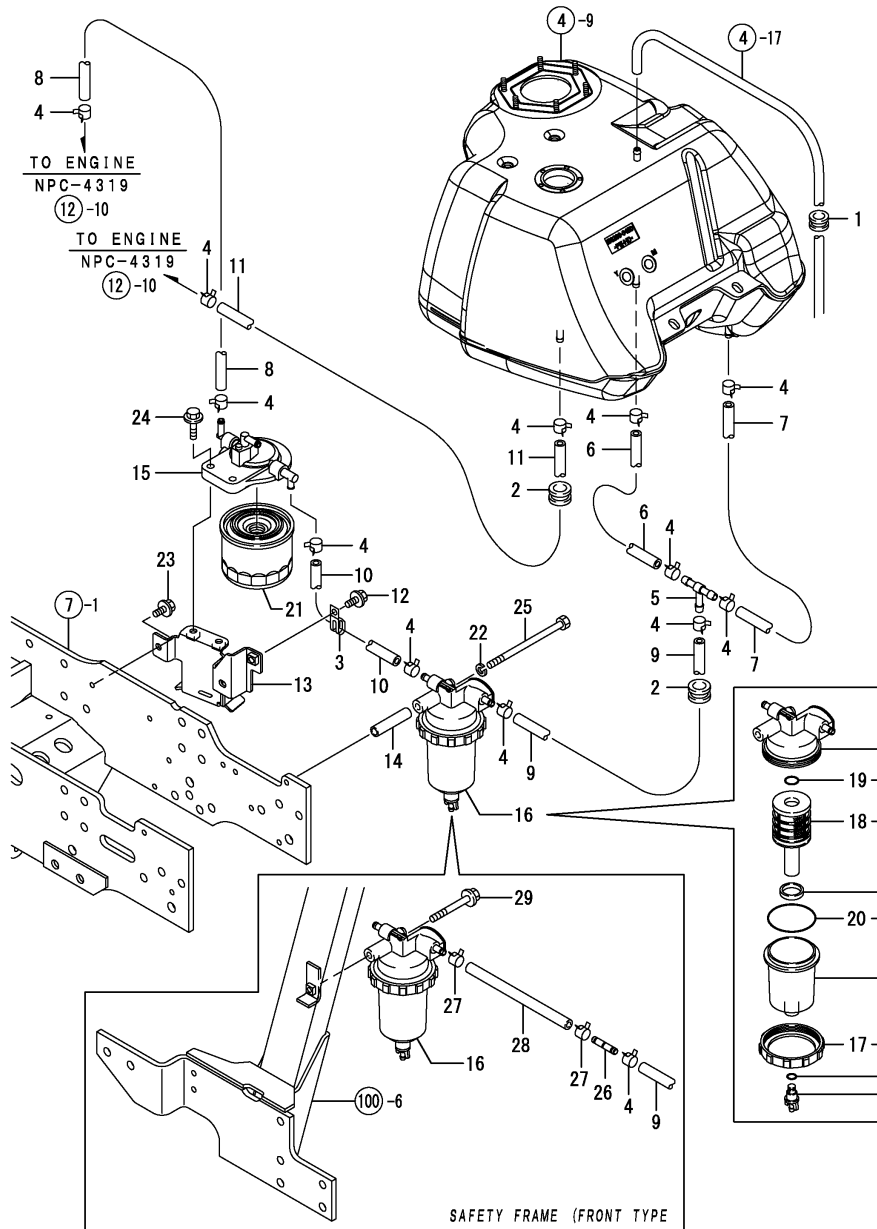
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198200-04020	INSULATOR,TANK LOWER	1	1	1					
2	1	198200-04030	CAP ASSY,FILLER	1	1	1					
3	2	198200-04040	GASKET,FILLER CAP	1	1	1					
4	1	198200-04061	STRAINER,	1	1	1					
5	1	198200-04070	INSULATOLOR,TANK LWR	1	1	1					
6	1	198200-04080	INSULATOLOR,TANK LWR	1	1	1					
7	1	198200-04090	CUSHION(TANK,F	3	3	3					
8	1	198200-04101	TANK ASSY, FUEL	1	1	1					
10	2	198200-56600	SENDER UNIT,	1	1	1					
11	2	198200-56630	GASKET, FUEL GAUGE	1	1	1					
12	2	26022-050102	SCREW M 5X 10	5	5	5					
13	1	198200-04120	CUSHION, TANK L	1	1	1					
14	1	198200-04130	CUSHION, TANK R	1	1	1					
15	1	198200-04210	PAN, DRIP	1	1	1					
16	1	198200-04260	GASKET, DRIP PAN	1	1	1					
17	1	198200-04270	HOSE, AIR VENT	1	1	1					
18	1	124766-59050	CLAMP 12	2	2	2					
19	1	1E6102-84970	BAND 140,WIRE LOCK	1	1	1					
20	1	22157-080000	WASHER 8	2	2	2					
21	1	22190-060000	SEAL WASHER 6(BOLT)	6	6	6					
22	1	23000-019000	CLAMP 19	1	1	1					
23	1	23065-160650	PIPE 16X 600	1	1	1					
24	1	24311-000850	O-RING 1A P-85.0	1	1	1					
25	1	26106-060252	BOLT M 6X 25 PLATED	3	3	3					
26	1	26106-080162	BOLT M 8X 16 PLATED	2	2	2					
27	1	26657-060002	CAP NUT M 6	3	3	3					

Fig.5. FUEL PIPE

(A)=EF227E
(B)=EF230E
(C)=EF233E

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



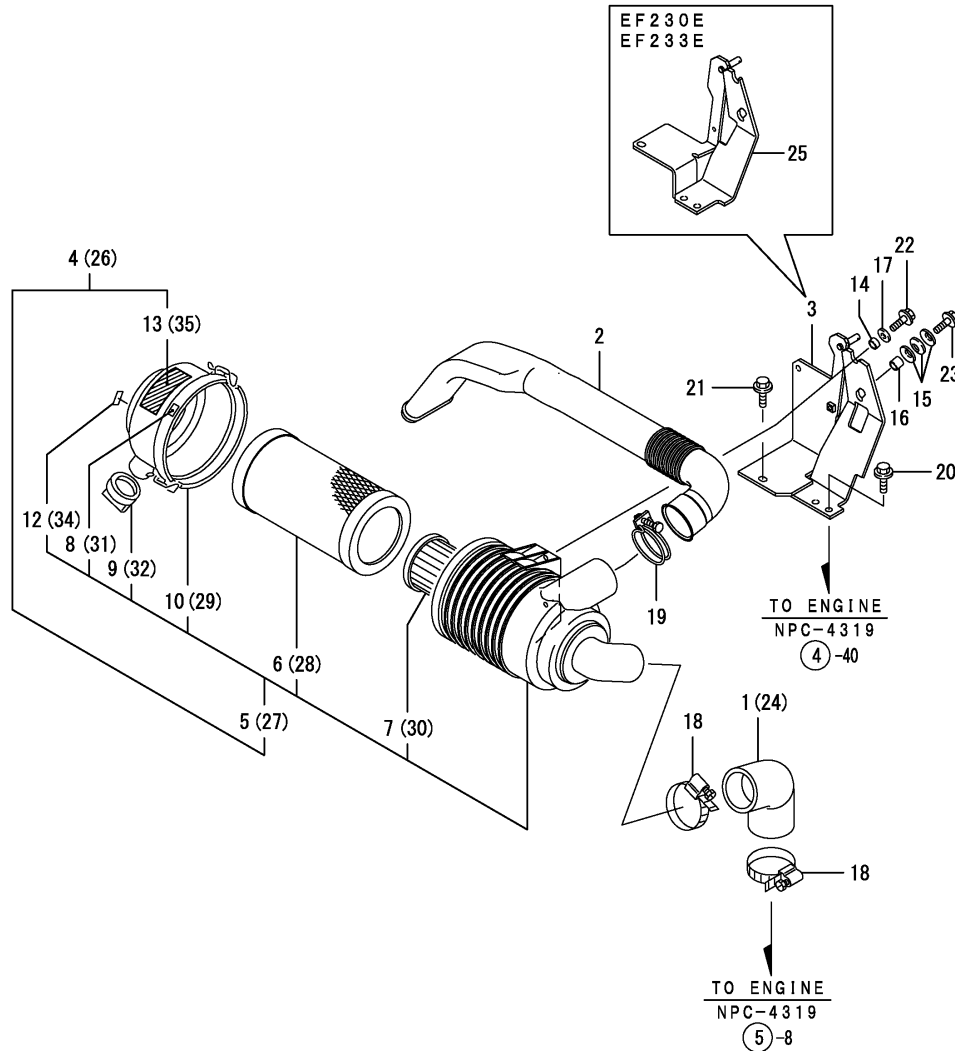
REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	1E8050-05510	GROMMET 12X3,SLITTED	1	1	1					
2	1	194170-51210	GROMMET 25	2	2	2					
3	1	194440-51620	CLAMP, WIRE HARNESS	1	1	1					
4	1	124766-59050	CLAMP 12	12	12	12					
5	1	119629-59910	JOINT, 3-WAY	1	1	1					
6	1	23980-730060	HOSE, 7.3 X 60	1	1	1					
7	1	23980-730180	HOSE, 7.3 X 180	1	1	1					
8	1	23980-730340	HOSE	1	1	1					
9	1	23980-730400	FUEL PIPE 7.3X400	1	1	1					
10	1	23980-730500	FUEL PIPE 7.3X500	1	1	1					
11	1	23980-730730	HOSE, 7.3X730	1	1	1					
12	1	26106-080122	BOLT M 8X 12 PLATED	1	1	1					
13	1	198200-11250	STAY ASSY, FILTER	1	1	1					
14	1	198280-11370	COLLAR	1	1	1					
15	1	119852-55611	BRACKET, FILTER	1	1	1					
16	1	119802-55700	SEPARATOR ASSY	1	1	1					
17	2	129100-55690	RING, RETAINING	1	1	1					
18	2	119802-55710	ELEMENT	1	1	1					
19	2	24311-000160	O-RING 1A P-16.0	1	1	1					
20	2	24321-000650	O-RING 1A G-65.0	1	1	1					
21	1	119802-55800	FILTER, FUEL	1	1	1					
22	1	22217-080000	SPRING WASHER 8	1	1	1					
23	1	26106-080162	BOLT M 8X 16 PLATED	2	2	2					
24	1	26106-080252	BOLT M 8X 25 PLATED	2	2	2					
25	1	26116-081302	BOLT M 8X130 PLATED	1	1	1					
26	1	198280-04470	JOINT	1	1	1					1
27	1	124766-59050	CLAMP 12	2	2	2					1
28	1	23980-730180	HOSE, 7.3 X 180	1	1	1					1
29	1	26106-080652	BOLT M 8X 65 PLATED	1	1	1					1

Remarks
(1) FOR TYPE SAFETY FRAME (FRONT)

Fig.6. AIR CLEANER

(A)=EF227E
(B)=EF230E
(C)=EF233E

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



REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198200-06010	HOSE, AIR INTAKE	1							
2	1	198200-06150	PIPE, INTAKE	1	1	1					
3	1	198280-06200	BRACKET, AIR CLEANER	1							
4	1	198280-06300	CLEANER M ASSY,AIR	1							
5	2	119852-12510	CLEANER ASSY, AIR	1							
6	3	119808-12520	ELEMENT, OUTER	1							
7	3	129051-12530	ELEMENT, INNER	1							
8	3	129418-12530	MARK	1							
9	3	119808-12540	VALVE, UNLOADER	1							
10	3	119866-12540	COVER ASSY	1							
12	3	129612-12650	MARKING,(W)	1							
13	2	198163-65930	CAUTION,MUFFLER	1							
14	1	198280-06410	COLLAR	1	1	1					
15	1	198072-18320	SPRING 12	3	3	3					
16	1	198092-71720	COLLAR, 8.1X10.5X9.3	1	1	1					
17	1	22157-080000	WASHER 8	1	1	1					
18	1	23000-070000	CLAMP 70	2	2	2					
19	1	23010-055000	CLAMP 55	1	1	1					
20	1	26106-080122	BOLT M 8X 12 PLATED	2	2	2					
21	1	26106-080162	BOLT M 8X 16 PLATED	1	1	1					
22	1	26106-080162	BOLT M 8X 16 PLATED	1	1	1					
23	1	26106-080202	BOLT M 8X 20 PLATED	1	1	1					
24	1	198208-06010	HOSE, AIR INTAKE	1	1	1					
25	1	198287-06200	BRACKET, AIR CLEANER	1	1	1					
26	1	198287-06300	CLEANER M ASSY,AIR	1	1	1					
27	2	129055-12510	CLEANER ASSY, AIR	1	1	1					
28	3	119808-12520	ELEMENT, OUTER	1	1	1					
29	3	119866-12530	COVER ASSY	1	1	1					
30	3	129051-12530	ELEMENT, INNER	1	1	1					
31	3	129418-12530	MARK	1	1	1					
32	3	119808-12540	VALVE, UNLOADER	1	1	1					
34	3	129612-12650	MARKING,(W)	1	1	1					
35	2	198163-65930	CAUTION,MUFFLER	1	1	1					

Fig.7. FRONT BLACKET

(A)=EF227E

(B)=EF230E

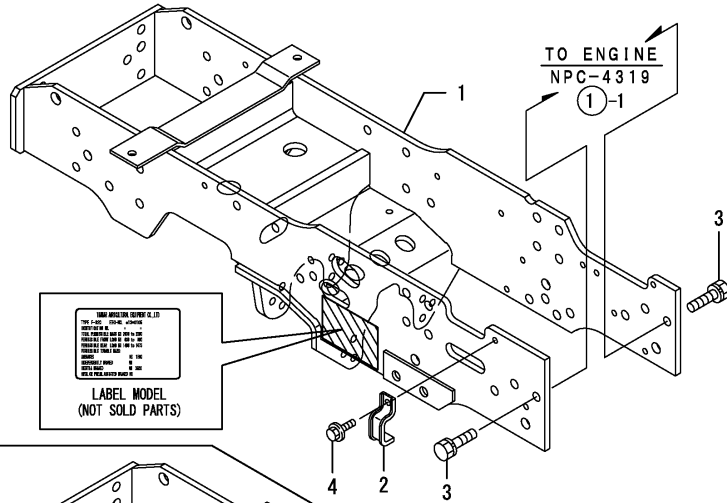
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(D)=

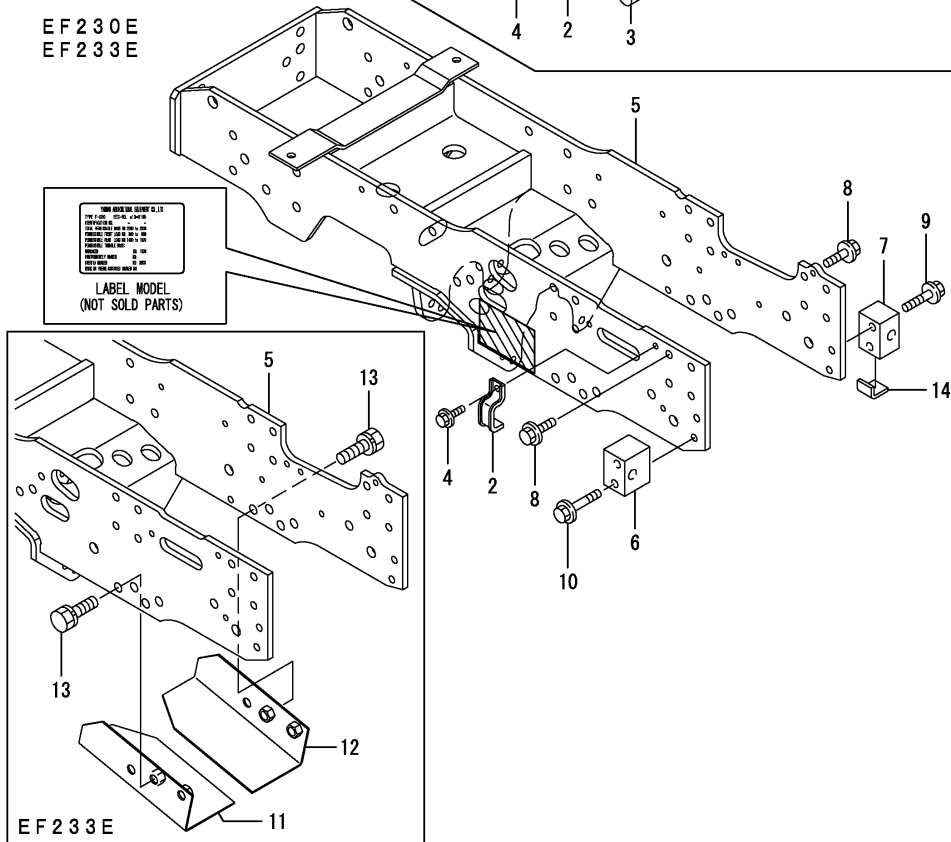
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(F)=

EF227E



EF230E
EF233E



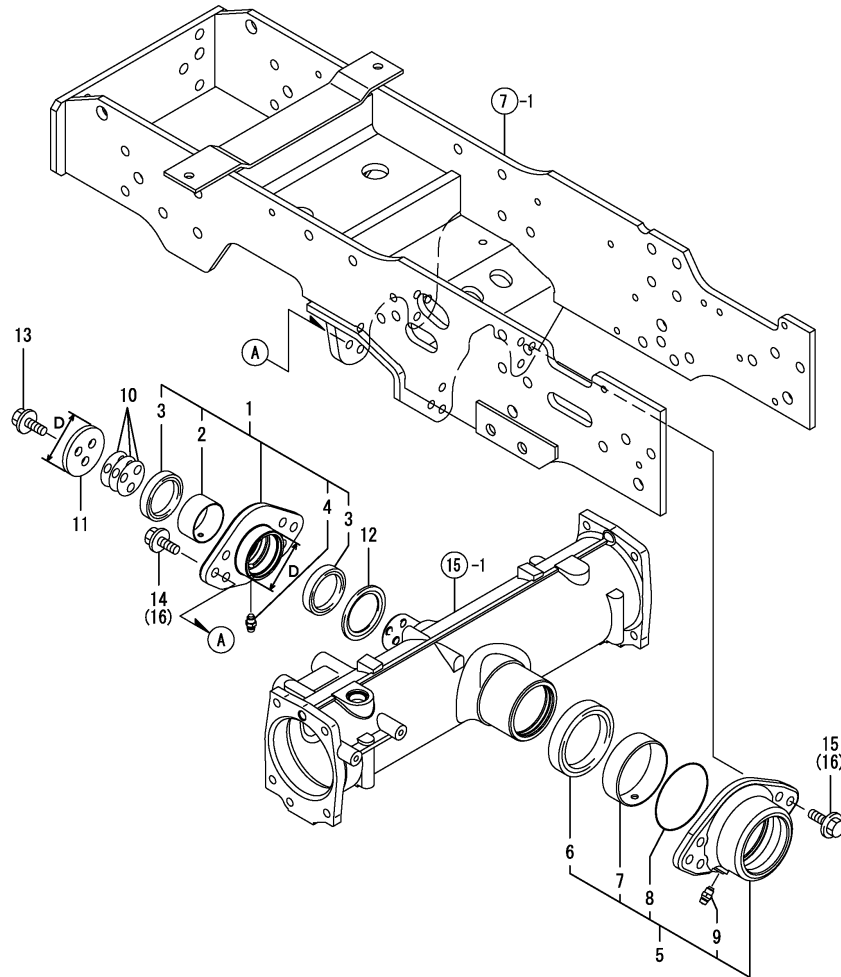
REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R	
				(A)	(B)	(C)	(D)	(E)	(F)			
1	1	198280-11100	BRACKET M ASSY, AXLE	1								
2	1	198200-17950	CLAMP	1	1	1						
3	1	26013-120302	BOLT W/WASHER M12X30	12								
4	1	26106-080122	BOLT M 8X 12 PLATED	1	1	1						
5	1	198287-11100	BRACKET M ASSY, AXLE		1	1						
6	1	198208-11210	STAY, L.H.		1	1						
6-1	1	1A8115-11210	STAY, L.H.		1	1						R
		(B=*2008.11.) (C=*2008.11.)										
7	1	198208-11220	STAY, R.H.		1	1						
7-1	1	1A8115-11220	STAY, R.H.		1	1						R
		(B=*2008.11.) (C=*2008.11.)										
8	1	198208-11310	BOLT, 10 X 25		16	16						
9	1	26106-100452	BOLT M10X 45 PLATED		2	2						
10	1	26106-100552	BOLT M10X 55 PLATED		2	2						
11	1	198287-11210	PLATE L CMP.									1
12	1	198287-11230	PLATE R CMP.									1
13	1	26013-120252	BOLT M12X 25									4
14	1	198093-84810	SEAL,FENDER		1	1						1
		(B=*2008.01.) (C=*2008.01.)										

Fig.8. FRONT SUPPORT

OCNP4-G43700 8. FRONT SUPPORT

(A)=EF227E
(B)=EF230E
(C)=EF233E

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



REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198200-13050	SUPPORT ASSY, F	1	1	1					
1-1	1	198283-13050	SUPPORT ASSY, F	1	1	1					S 1
		(A=*2005.12.) (B=*2005.12.) (C=*2005.12.)									
1-2	1	198283-13051	SUPPORT ASSY, F	1	1	1					N
		(A=FXXXXXX) (B=FXXXXXX) (C=FXXXXXX)									
2	2	194451-11960	BUSH 45X49X25	1	1	1					
2-1	2	198283-13380	BUSH	1	1	1					S
		(A=*2005.12.) (B=*2005.12.) (C=*2005.12.)									
3	2	198291-13240	SEAL G455204,OIL	2	2	2					
3-1	2	198172-11640	SEAL, G50X58X4	2	2	2					S
		(A=*2005.12.) (B=*2005.12.) (C=*2005.12.)									
4	2	24761-010000	NIPPLE M6F, GREASE	1	1	1					
4-1	2	194850-13690	NIPPLE M6F, GREASE	1	1	1					R
		(A=FXXXXXX) (B=FXXXXXX) (C=FXXXXXX)									
5	1	198200-13060	SUPPORT ASSY, R	1	1	1					
5-1	1	198200-13061	SUPPORT ASSY, R	1	1	1					N
		(A=FXXXXXX) (B=FXXXXXX) (C=FXXXXXX)									
6	2	194181-11560	SEAL VB75 85 6.5,OIL	1	1	1					
7	2	194641-11630	BUSH 75X80X25	1	1	1					
8	2	24321-000750	O-RING 1A G-75.0	1	1	1					
9	2	24761-010000	NIPPLE M6F, GREASE	1	1	1					
9-1	2	194850-13690	NIPPLE M6F, GREASE	1	1	1					R
		(A=FXXXXXX) (B=FXXXXXX) (C=FXXXXXX)									
10	1	198200-13320	SHIM,	3	3	3					
11	1	198200-13330	PLATE, THRUST	1	1	1					
11-1	1	198283-13330	PLATE, THRUST	1	1	1					S 1
		(A=*2005.12.) (B=*2005.12.) (C=*2005.12.)									
12	1	198200-13350	WASHER	1	1	1					
13	1	26106-100252	BOLT M10X 25 PLATED	3	3	3					
14	1	26106-100252	BOLT M10X 25 PLATED	6	6	6					Z
		(A=FXXXXXX) (B=FXXXXXX) (C=FXXXXXX)									
15	1	26106-100252	BOLT M10X 25 PLATED	6	6	6					Z
		(A=FXXXXXX) (B=FXXXXXX) (C=FXXXXXX)									
16	1	198208-11310	BOLT, 10 X 25	12	12	12					W
		(A=FXXXXXX) (B=FXXXXXX) (C=FXXXXXX)									

Remarks

(1) D=REF.NO.1 60.5M/M,
REF.NO.1-1 65.5M/M.
D=REF.NO.11 60M/M,REF.NO.11-1 66M/M.

Fig.9. FRONT HITCH

(A)=EF227E
 (B)=EF230E
 (C)=EF233E

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

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198280-11810	HITCH, FRONT	1	1	1					
2	1	198280-11830	PIN, HITCH	1	1	1					
3	1	198280-11840	PIN ASSY, LOCK	1	1	1					
4	1	198535-62780	SPACER,	1	1	1					
5	1	26013-120352	BOLT M12X 35	4	4	4					
6	1	26106-060102	BOLT 6X 10 PLATED	1	1	1					
7	1	26716-120002	NUT 12	4	4	4					

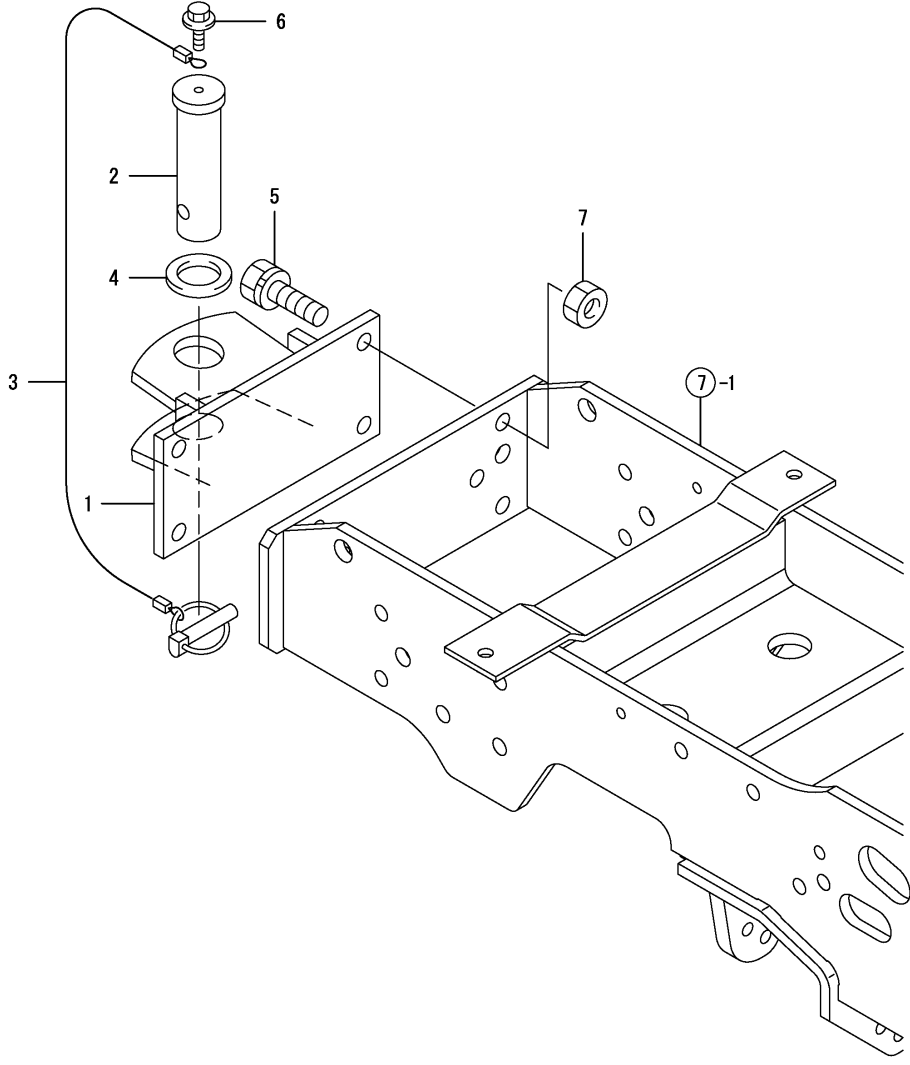
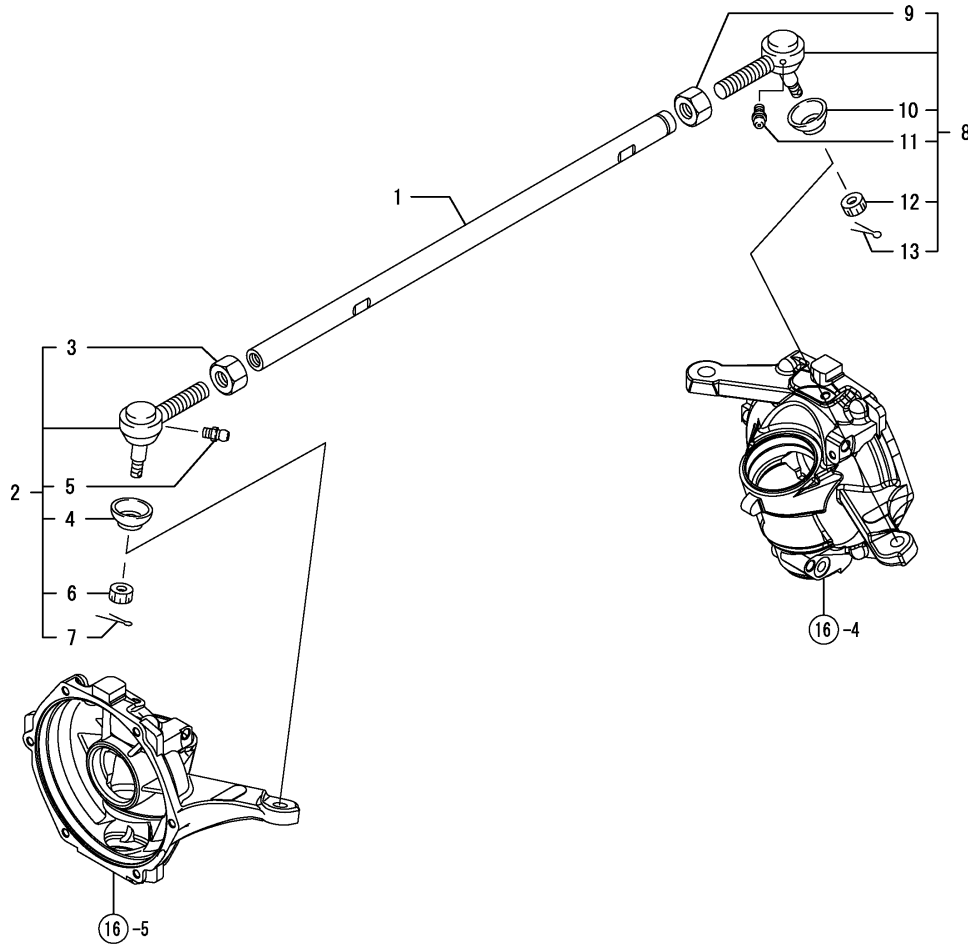


Fig.10. TIE ROD

(A)=EF227E
(B)=EF230E
(C)=EF233E

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



REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198127-12310	TIE-ROD (49)	1	1	1					
I	2	198240-18130	TIRE-ROD END KIT RL	1	1	1					
I	3	194990-22840	NUT M17	1	1	1					
4	2	194730-57220	COVER, DUST	1	1	1					
5	2	24761-060000	NIPPLE MT6X1, GREASE	1	1	1					
6	2	198240-12590	NUT 12	1	1	1					
7	2	22417-300250	COTTER PIN 3.0X 25	1	1	1					
I	8	198240-18120	TIRE-ROD END KIT(LR)	1	1	1					
I	9	194990-22830	NUT M17	1	1	1					
10	2	194730-57220	COVER, DUST	1	1	1					
11	2	24761-060000	NIPPLE MT6X1, GREASE	1	1	1					
12	2	198240-12590	NUT 12	1	1	1					
13	2	22417-300250	COTTER PIN 3.0X 25	1	1	1					

Fig.11. RING GEAR

0CNP4-G43700 11. RING GEAR

(A)=EF227E
(B)=EF230E
(C)=EF233E

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

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198200-13100	GEAR ASSY, RING	1	1	1					
I	1A	2	198200-13110	PINION, DRIVE	1	1	1				
I	1B	2	198200-13120	GEAR, RING	1	1	1				
2	1	1E6190-54080	SLEEVE SI25X30X13	1	1	1					
3	1	22242-000300	CIRCLIP 30	1	1	1					
4	1	24101-062064	BALL BEARING 6206	1	1	1					
5	1	24101-063054	BEARING #6305	1	1	1					

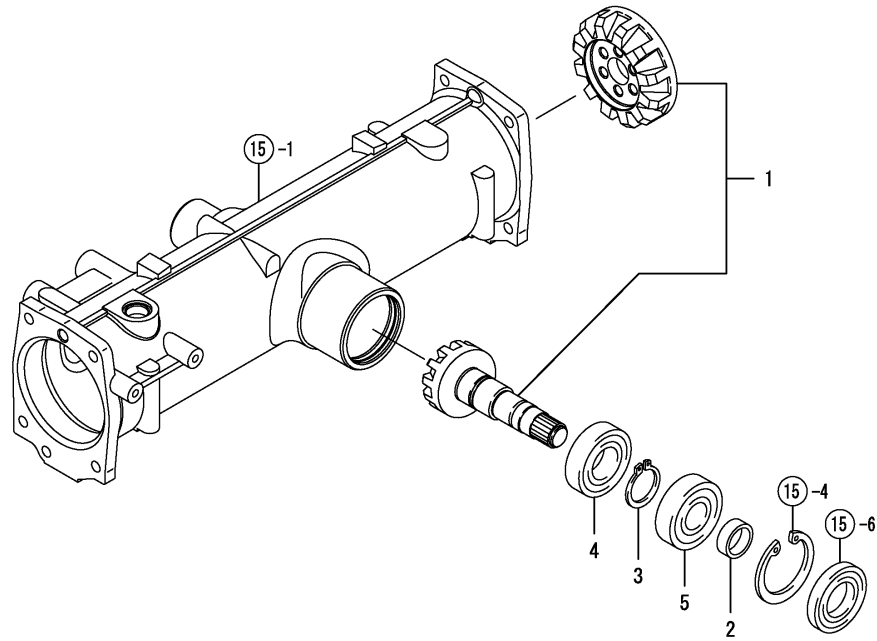


Fig.12. DIFFERENTIAL GEAR

(A)=EF227E
(B)=EF230E
(C)=EF233E

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

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198200-13200	HOUSING ASSY, DIFF.	1	1	1					
2	2	198200-13210	HOUSING, DIFF.	1	1	1					
3	2	198200-13220	SHAFT, DIFF. PINION	1	1	1					
4	2	194300-31550	GEAR, DIFFERENTIAL	2	2	2					
5	2	194300-31560	GEAR, DIFFERENTIAL	2	2	2					
6	2	194300-31610	WASHER, DIFFERENTIAL	2	2	2					
7	2	194300-31620	WASHER, DIFFERENTIAL	2	2	2					
8	2	22351-040040	SPRING PIN 4X40	1	1	1					
9	1	198200-13250	COLLER, DIFFERENTIAL	1	1	1					
10	1	194421-13640	BOLT M 8X22	6	6	6					
11	1	24101-060114	BALL BEARING	2	2	2					

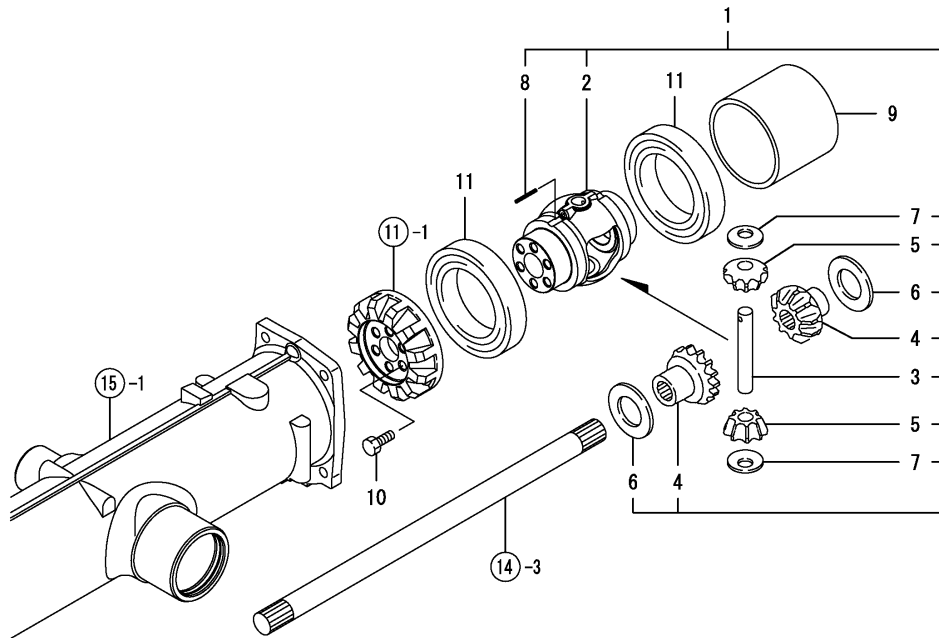
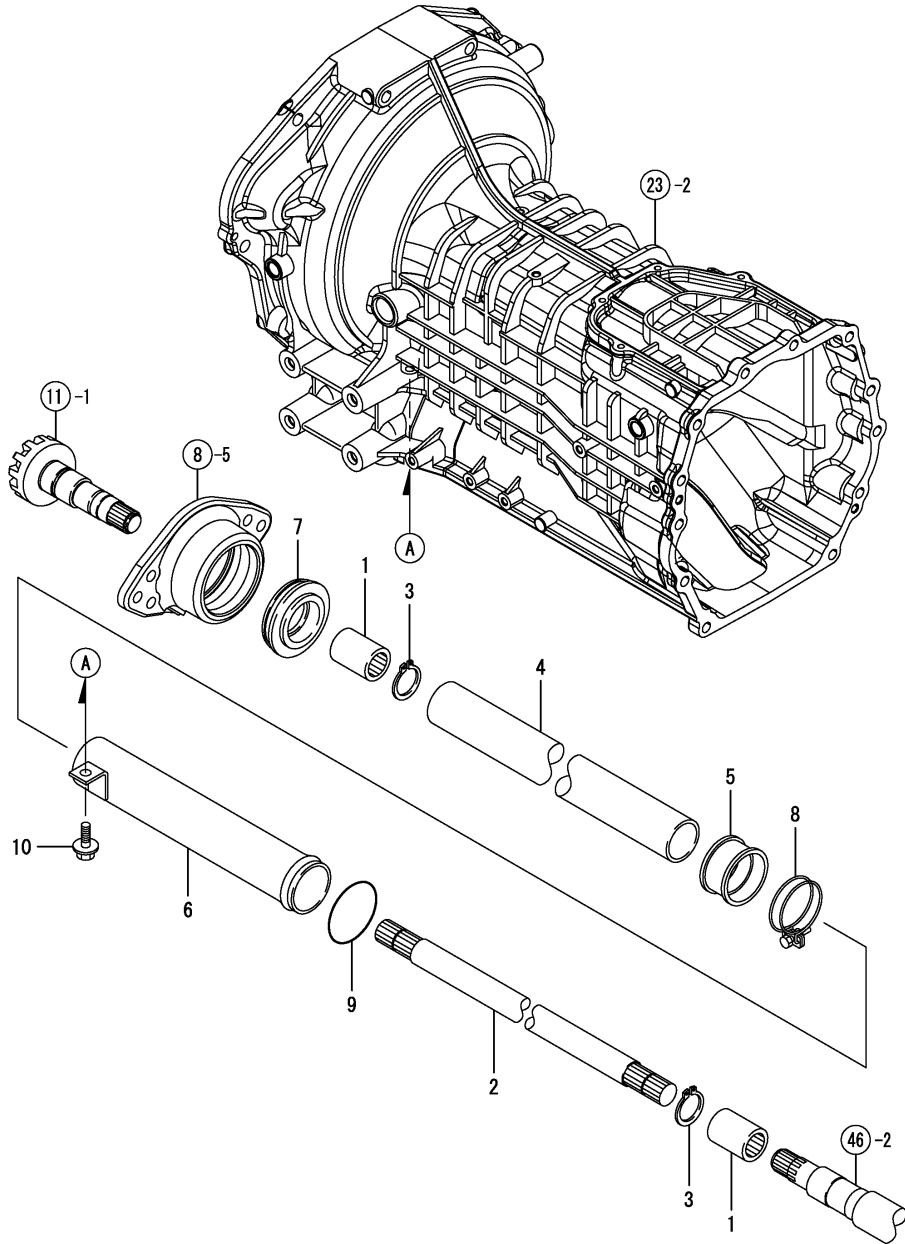


Fig.13. PROPELLER SHAFT



(A)=EF227E
 (B)=EF230E
 (C)=EF233E

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

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198200-13280	COUPLING, FRONT	2	2	2					
2	1	198280-13310	SHAFT, PROPELLER	1	1	1					
3	1	22242-000220	CIRCLIP 22	2	2	2					
4	1	198280-14630	COVER, SHAFT FRONT	1	1	1					
5	1	198071-14650	BOOT,SHAFT COVER	1	1	1					
6	1	198200-14670	COVER, SHAFT REAR	1	1	1					
7	1	198200-14910	SEAL, SHAFT COVER	1	1	1					
8	1	23010-055000	CLAMP 55	1	1	1					
9	1	24321-000450	O-RING 1A G-45.0	1	1	1					
10	1	26106-080162	BOLT M 8X 16 PLATED	1	1	1					

Fig.14. FRONT SHAFT

OCNP4-G43700 14. FRONT SHAFT

(A)=EF227E
(B)=EF230E
(C)=EF233E

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

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198208-13510	SHAFT, FRONT 1ST	1	1	1					
2	1	198200-13520	PINION, 1ST SHAFT	2	2	2					
3	1	198208-13530	SHAFT, FRONT 1ST	1	1	1					
4	1	24101-062074	BALL BEARING	2	2	2					

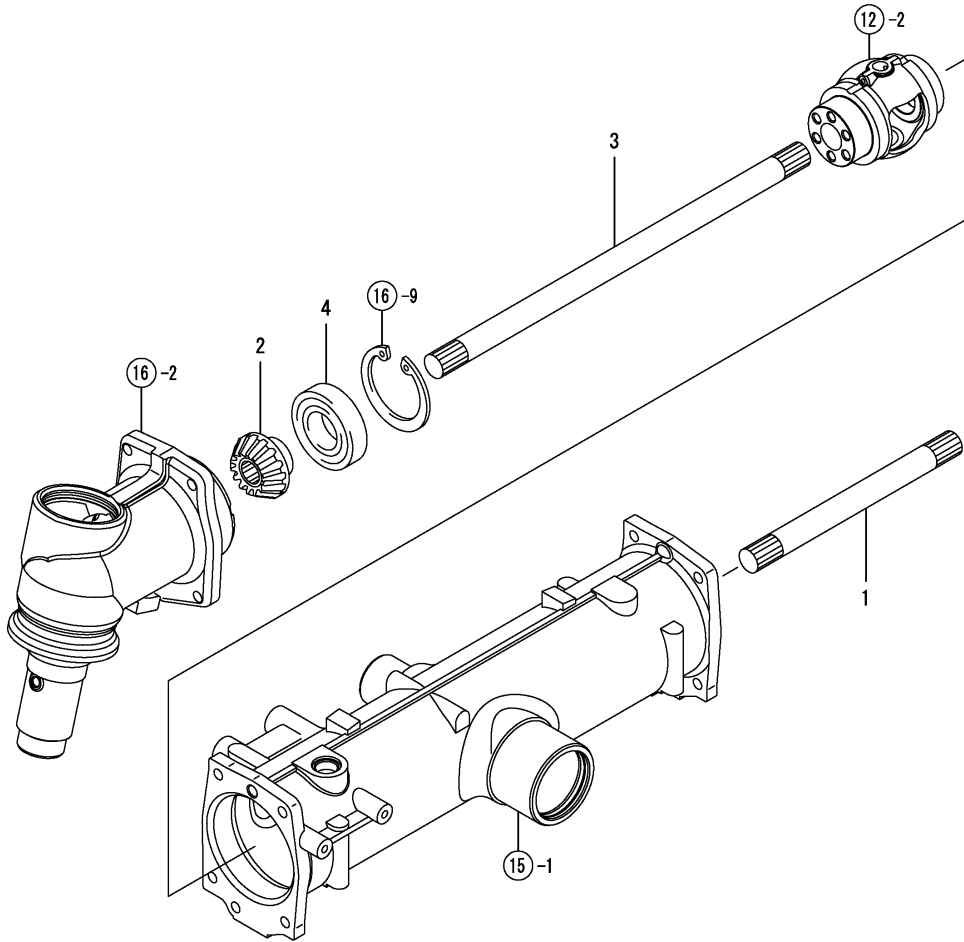


Fig.15. FRONT AXLE CASE

OCNP4-G43700 15. FRONT AXLE CASE

(A)=EF227E
(B)=EF230E
(C)=EF233E

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

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198200-13611	HOUSING, FRONT AXLE	1	1	1					
2	1	198208-17210	BRACKET, CYLINDER	1	1	1					
3	1	1C6900-23020	BREATHER W/GG.,KNOCK	1	1	1					
4	1	22252-000620	CIRCLIP 62(H)	1	1	1					
5	1	24311-000180	O-RING 1A P-18.0	1	1	1					
6	1	24421-306210	SEAL TC30 62 10, OIL	1	1	1					
7	1	26013-120302	BOLT W/WASHER M12X30	4	4	4					

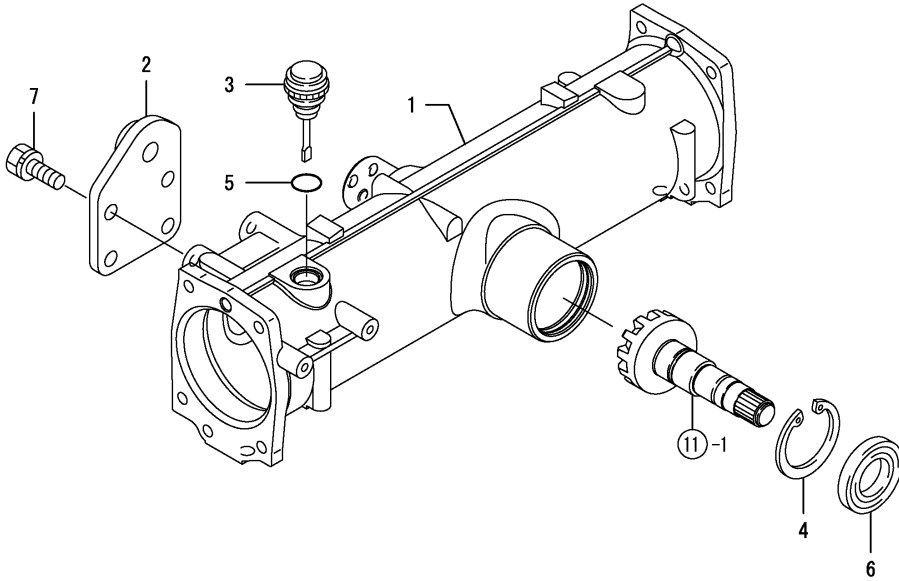


Fig.16. FRONT GEAR CASE

(A)=EF227E

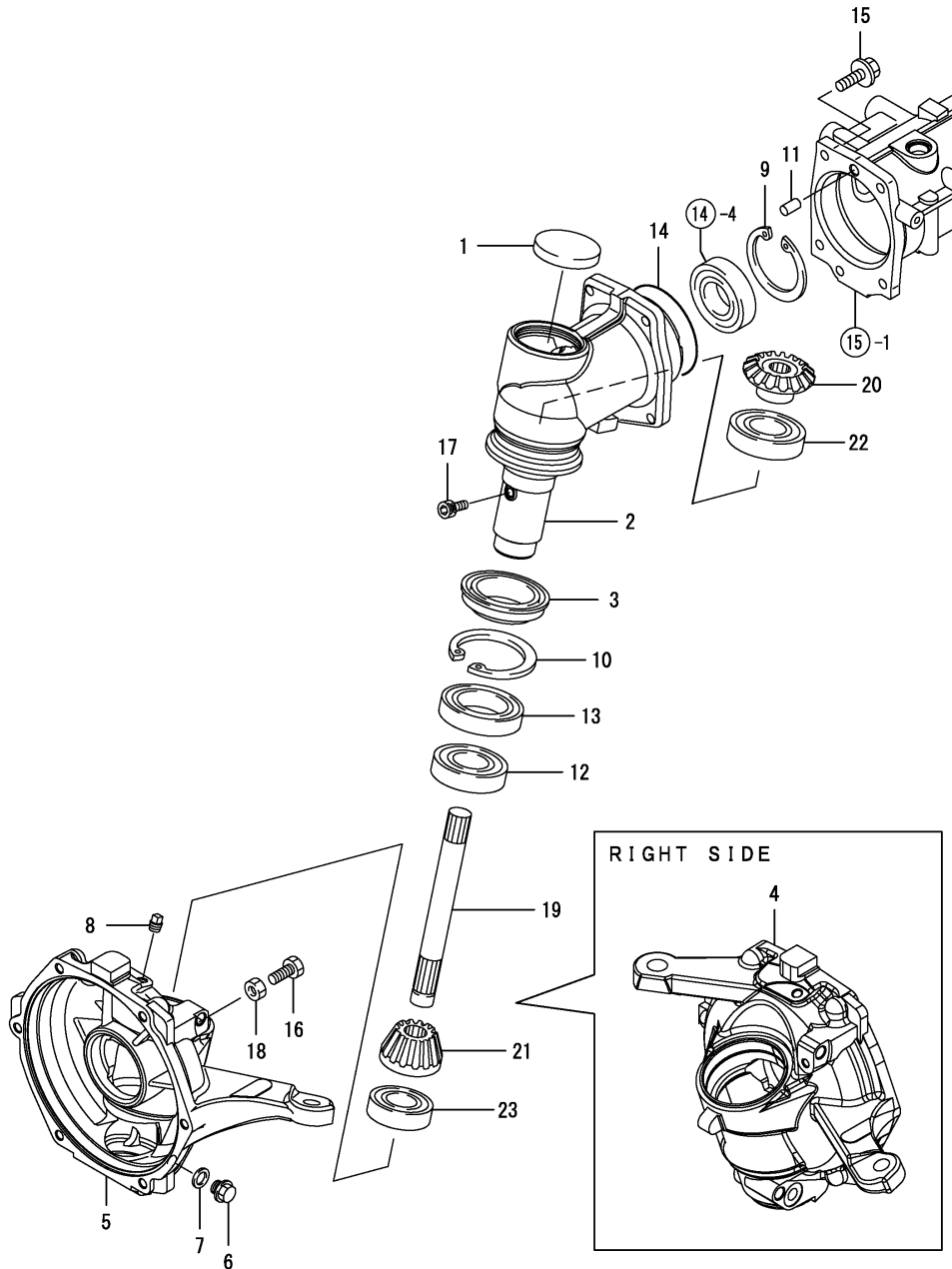
(B)=EF230E

(C)=EF233E

(D)=

(E)=

(F)=



REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	177432-03450	PLUG	2	2	2					
2	1	198208-13720	HOUSING, FRONT GEAR	2	2	2					
3	1	198071-13760	SEAL QLF578016.5,OIL	2	2	2					
4	1	198200-13780	GEARBOX, FRONT R.H.	1	1	1					
5	1	198200-13791	GEARBOX, FRONT L.H.	1	1	1					
6	1	1C6900-23120	BOLT M14X10,DRAIN	2	2	2					
7	1	1C6900-23150	WASHER	2	2	2					
8	1	194151-36670	PLUG PT02	2	2	2					
9	1	22252-000720	CIRCLIP 72	2	2	2					
10	1	22252-000800	CIRCLIP 80	2	2	2					
11	1	22312-100180	PARALLEL PIN 10X 18	2	2	2					
12	1	24101-060084	BALL BEARING	2	2	2					
13	1	24101-060104	BALL BEARING	2	2	2					
14	1	24321-000950	O-RING 1A G-95.0	2	2	2					
15	1	26106-100302	BOLT M10X 30 PLATED	10	10	10					
16	1	26116-100352	BOLT 10X35	2	2	2					
17	1	26450-080122	BOLT 8X 12	2	2	2					
18	1	26716-100002	NUT 10	2	2	2					
19	1	198200-13810	SHAFT, FRONT 2ND	2	2	2					
20	1	198200-13820	GEAR, 2ND SHAFT	2	2	2					
21	1	198200-13830	PINION, FRONT FINAL	2	2	2					
22	1	24101-062064	BALL BEARING 6206	2	2	2					
23	1	24101-063044	BALL BEARING	2	2	2					

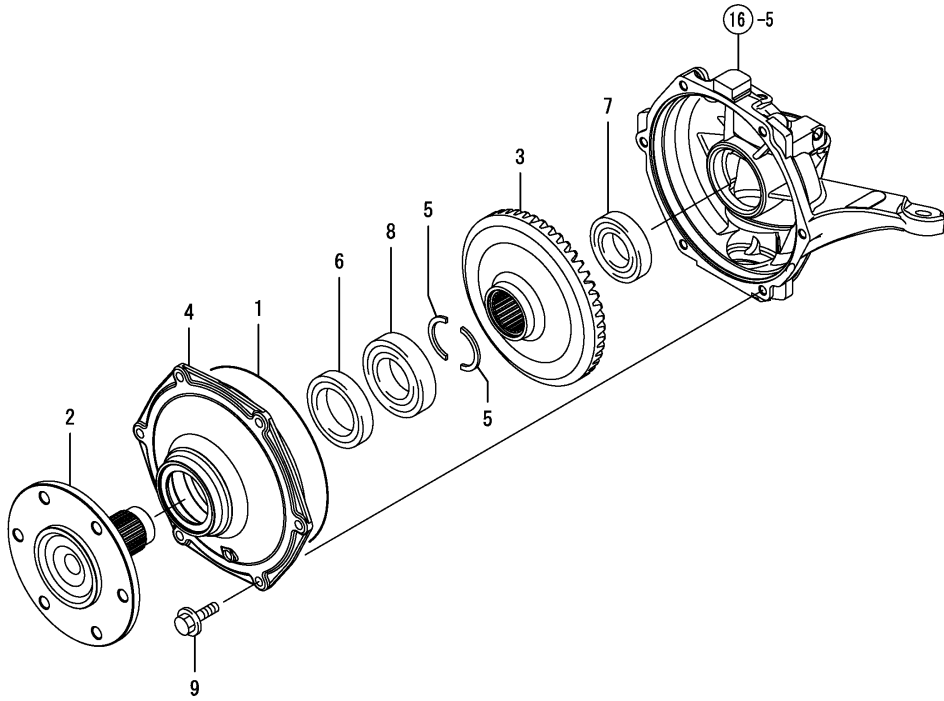
Fig.17. FRONT SPINDLE

OCNP4-G43700 17. FRONT SPINDLE

(A)=EF227E
 (B)=EF230E
 (C)=EF233E

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

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194556-13790	O-RING 190X2.7	2	2	2					
2	1	198200-14110	SPINDLE, FRONT	2	2	2					
3	1	198200-14120	GEAR, FRONT FINAL	2	2	2					
4	1	198200-14130	COVER, GEARBOX	2	2	2					
5	1	198200-14210	RING, HALF TIMBER	4	4	4					
6	1	198475-32660	SEAL QLNY527514.5	2	2	2					
7	1	24101-060084	BALL BEARING	2	2	2					
8	1	24101-062094	BALL BEARING	2	2	2					
9	1	26106-100252	BOLT M10X 25 PLATED	12	12	12					

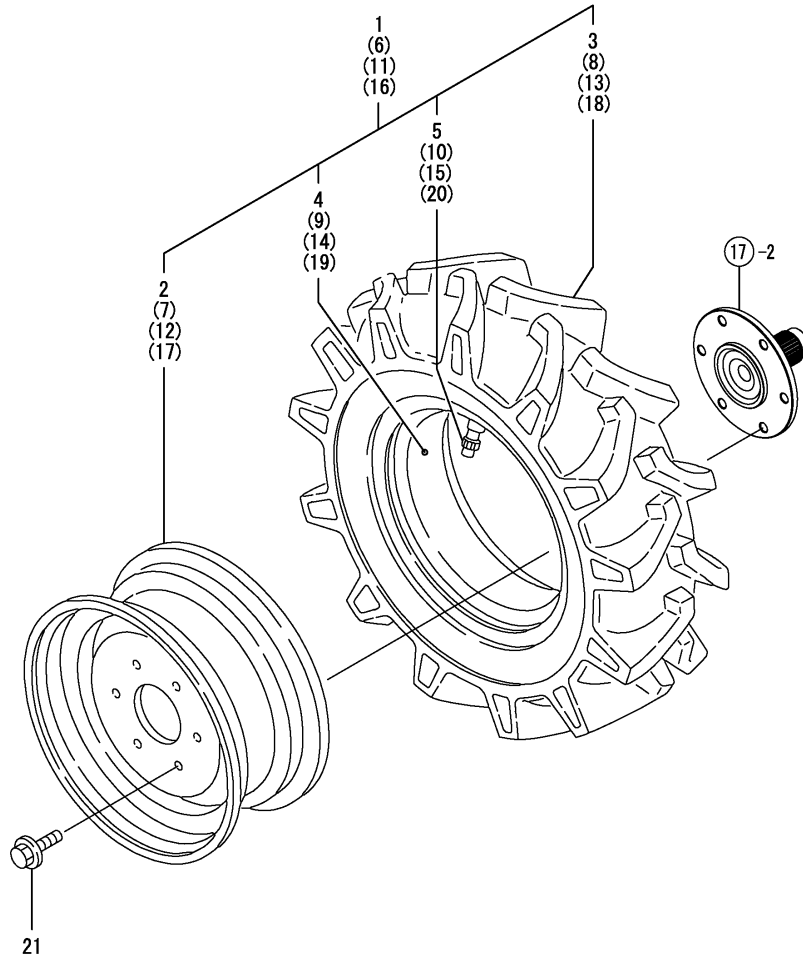


A series of horizontal lines for handwritten notes or additional specifications.

Fig.18. FRONT WHEEL TIRE

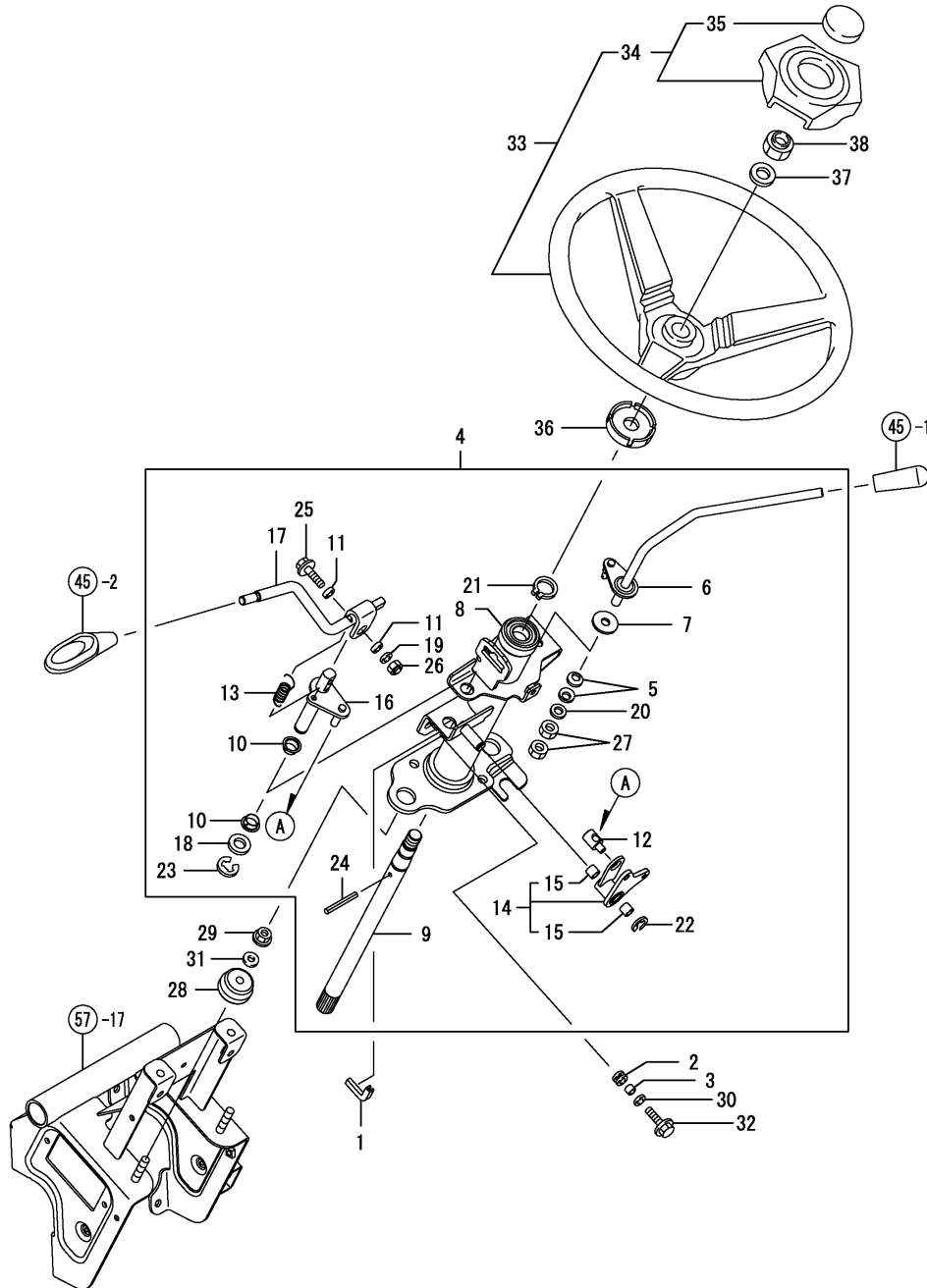
(A)=EF227E
 (B)=EF230E
 (C)=EF233E

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



REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198031-14700	TIRE L KIT,FRONT	1	1	1					
2	2	198031-14710	WHEEL 5JAX14WDC	1	1	1					
3	2	194166-14810	TIRE 6-14	1	1	1					
4	2	194166-14820	TUBE	1	1	1					
5	2	194190-34730	HOUSING,CORE	1	1	1					
6	1	198031-14800	FRONT TIRE R.H KIT	1	1	1					
7	2	198031-14710	WHEEL 5JAX14WDC	1	1	1					
8	2	194166-14810	TIRE 6-14	1	1	1					
9	2	194166-14820	TUBE	1	1	1					
10	2	194190-34730	HOUSING,CORE	1	1	1					
11	1	198127-14700	TIRE L ASSY, FRONT	1	1	1					
12	2	198031-14710	WHEEL 5JAX14WDC	1	1	1					
13	2	194171-14810	TIRE, 7-14-4 FSLM	1	1	1					
14	2	194171-14820	TUBE	1	1	1					
15	2	194190-34730	HOUSING,CORE	1	1	1					
16	1	198127-14800	FRONT TIRE R.H. KIT	1	1	1					
17	2	198031-14710	WHEEL 5JAX14WDC	1	1	1					
18	2	194171-14810	TIRE, 7-14-4 FSLM	1	1	1					
19	2	194171-14820	TUBE	1	1	1					
20	2	194190-34730	HOUSING,CORE	1	1	1					
21	1	194881-12650	BOLT M14X 24	12	12	12					

Fig.19. STEERING



(A)=EF227E

(B)=EF230E

(C)=EF233E

(D)=

(E)=

(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198200-01170	SEAL, CABLE	1	1	1					
2	1	198360-03260	GROMMET 12	2	2	2					
3	1	198360-03270	SPACER	2	2	2					
4	1	198200-15090	COLUMN UNIT,	1	1	1					
5	2	194740-00160	WASHER 10, CONICAL	2	2	2					
6	2	198200-01110	LEVER ASSY, CONTROL	1	1	1					
7	2	198200-01260	PLATE, FRICTION	1	1	1					
8	2	198200-15100	COLUMN ASSY,	1	1	1					
9	2	198200-15180	SHAFT, STEERING	1	1	1					
10	2	198200-27000	BUSH, 15X16X8	2	2	2					
11	2	198200-27030	COLLAR, 9X14X4.5	2	2	2					
12	2	198200-27090	PIN, CONNECTING	1	1	1					
13	2	198200-27240	SPRING, RETURN	1	1	1					
14	2	198200-27250	PLATE ASSY, ARM	1	1	1					
15	3	24550-012100	BUSH 12X10	2	2	2					
16	2	198200-27400	SHAFT, REVERSER	1	1	1					
17	2	198200-27460	LEVER, REVERSER	1	1	1					
18	2	22117-140000	WASHER 14	1	1	1					
19	2	22137-080000	WASHER 8, POLISHED	1	1	1					
20	2	22137-100000	WASHER 10,POLISHED	1	1	1					
21	2	22242-000200	CIRCLIP 20	1	1	1					
22	2	22272-000090	CIRCLIP E- 9	1	1	1					
23	2	22272-000120	CIRCLIP E-12	1	1	1					
24	2	22351-040032	SPRING PIN 4X32	1	1	1					
25	2	26106-080352	BOLT M 8X 35 PLATED	1	1	1					
26	2	26346-080002	U-NUT M 8 PLATED	1	1	1					
27	2	26716-100002	NUT 10	2	2	2					
28	1	198200-15250	MOUNT, STEERING	2	2	2					
29	1	194990-22140	NUT W/WASHER 8	2	2	2					
30	1	22157-080000	WASHER 8	2	2	2					
31	1	22157-080000	WASHER 8	2	2	2					
32	1	26106-080252	BOLT M 8X 25 PLATED	2	2	2					
33	1	198133-15700	WHEEL COMP.,STEERING	1	1	1					
34	2	198133-15740	CAP COMP.,STEERING	1	1	1					
35	3	198133-15780	NAMEPLATE,HANDLE	1	1	1					
36	1	1A7000-15720	STEERING COVER	1	1	1					
37	1	22137-160000	WASHER 16,POLISHED	1	1	1					
38	1	26356-160002	U-NUT M16	1	1	1					

Fig.20. P.S.T. CYLINDER

(A)=EF227E

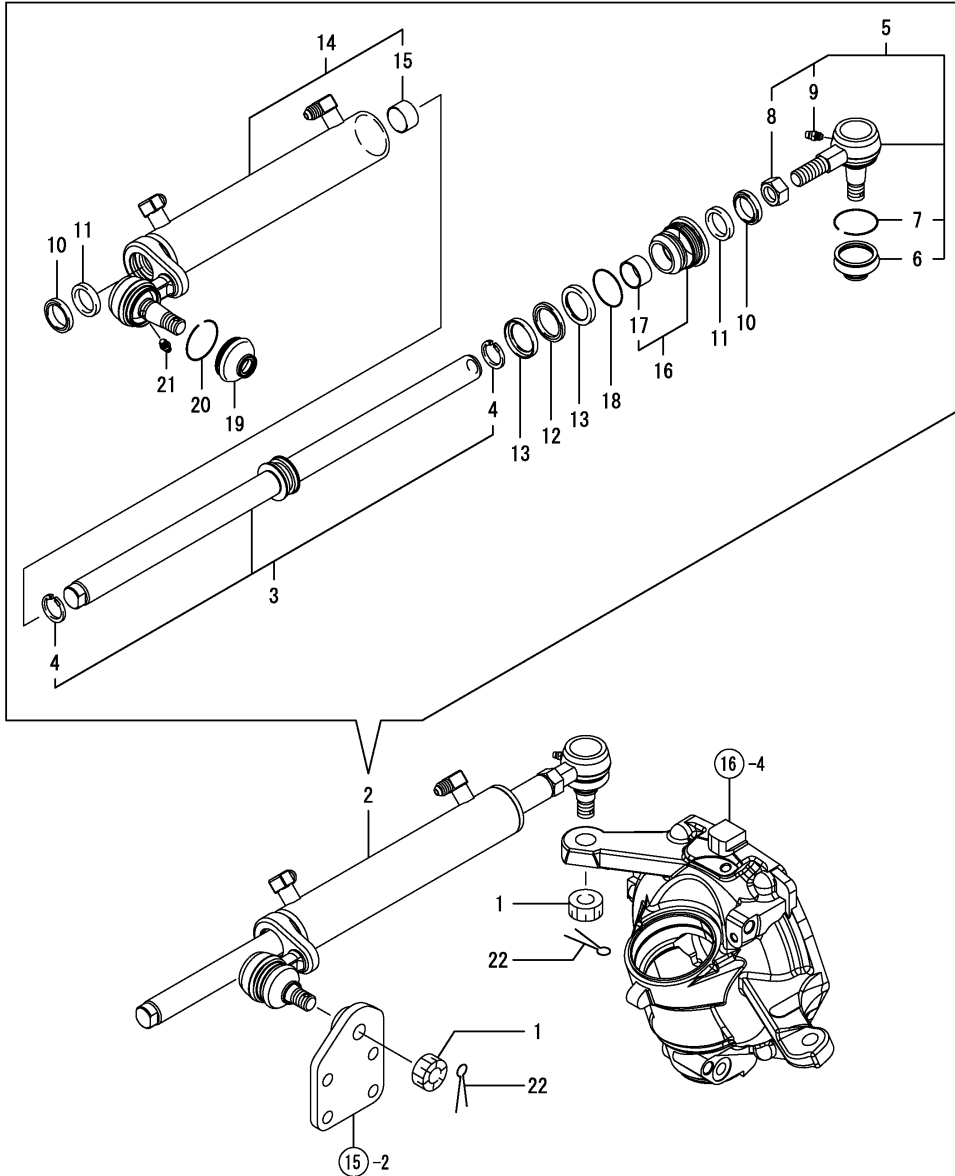
(B)=EF230E

(C)=EF233E

(D)=

(E)=

(F)=



REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194180-12470	NUT, CASTLE	2	2	2					
2	1	198200-17010	CYLINDER KIT, PST.	1	1	1					
3	2	198200-17050	ROD ASSY, STEERING	1	1	1					
4	3	22292-000250	CIRCLIP 25	2	2	2					
5	2	198200-17070	ROD END ASSY	1	1	1					
6	3	194450-12551	COVER, DUST	1	1	1					
7	3	194450-12561	RING, SET	1	1	1					
8	3	1A6030-47880	NUT, 16R	1	1	1					
9	3	24761-060000	NIPPLE MT6X1, GREASE	1	1	1					
10	2	198200-17140	WIPER	2	2	2					
11	2	198200-17150	ROD SEAL	2	2	2					
12	2	198200-17160	PACKING, PISTON	1	1	1					
13	2	198200-17170	BEARING, PISTON	2	2	2					
14	2	198200-17240	TUBE ASSY, CYLINDER	1	1	1					
15	3	24550-025150	BUSH 25X15	1	1	1					
16	2	198200-17250	CAP ASSY	1	1	1					
17	3	24550-025150	BUSH 25X15	1	1	1					
18	2	24315-000350	O-RING 1B P-35.0	1	1	1					
I 19	2	194450-12551	COVER, DUST	1	1	1					
20	2	194450-12561	RING, SET	1	1	1					
21	2	24761-060000	NIPPLE MT6X1, GREASE	1	1	1					
22	1	22417-400250	COTTER PIN 4.0X25	2	2	2					

Fig.21. P.S.T. VALVE

(A)=EF227E
(B)=EF230E
(C)=EF233E

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

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198200-17500	VALVE ASSY, STEERING	1	1	1					
1A	2	198072-17550	SEAL KIT	1	1	1					W
		(A=*2008.04.) (B=*2008.04.) (C=*2008.04.)									
2	1	26136-100162	BOLT, 10 X 16	3	3	3					

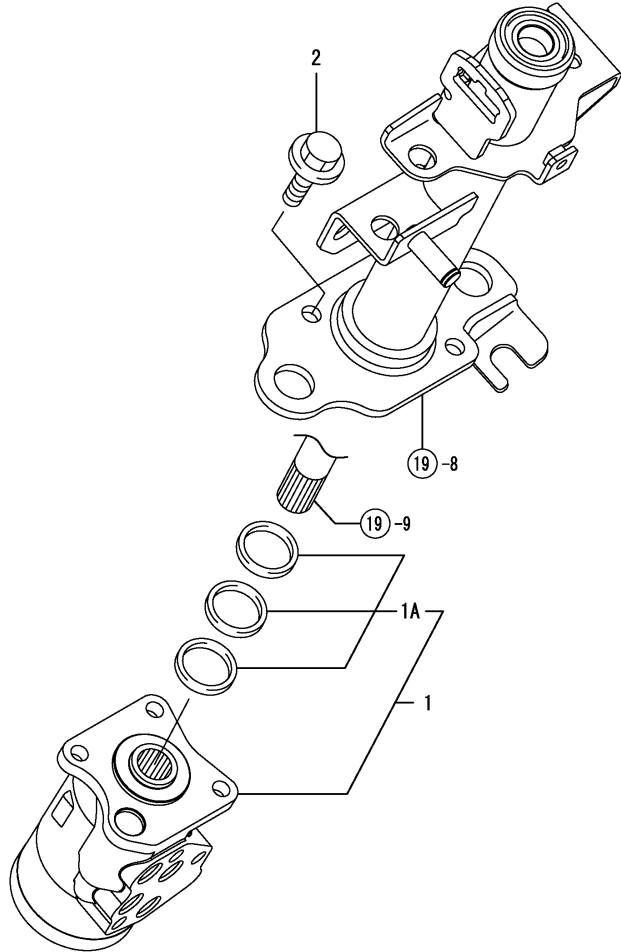
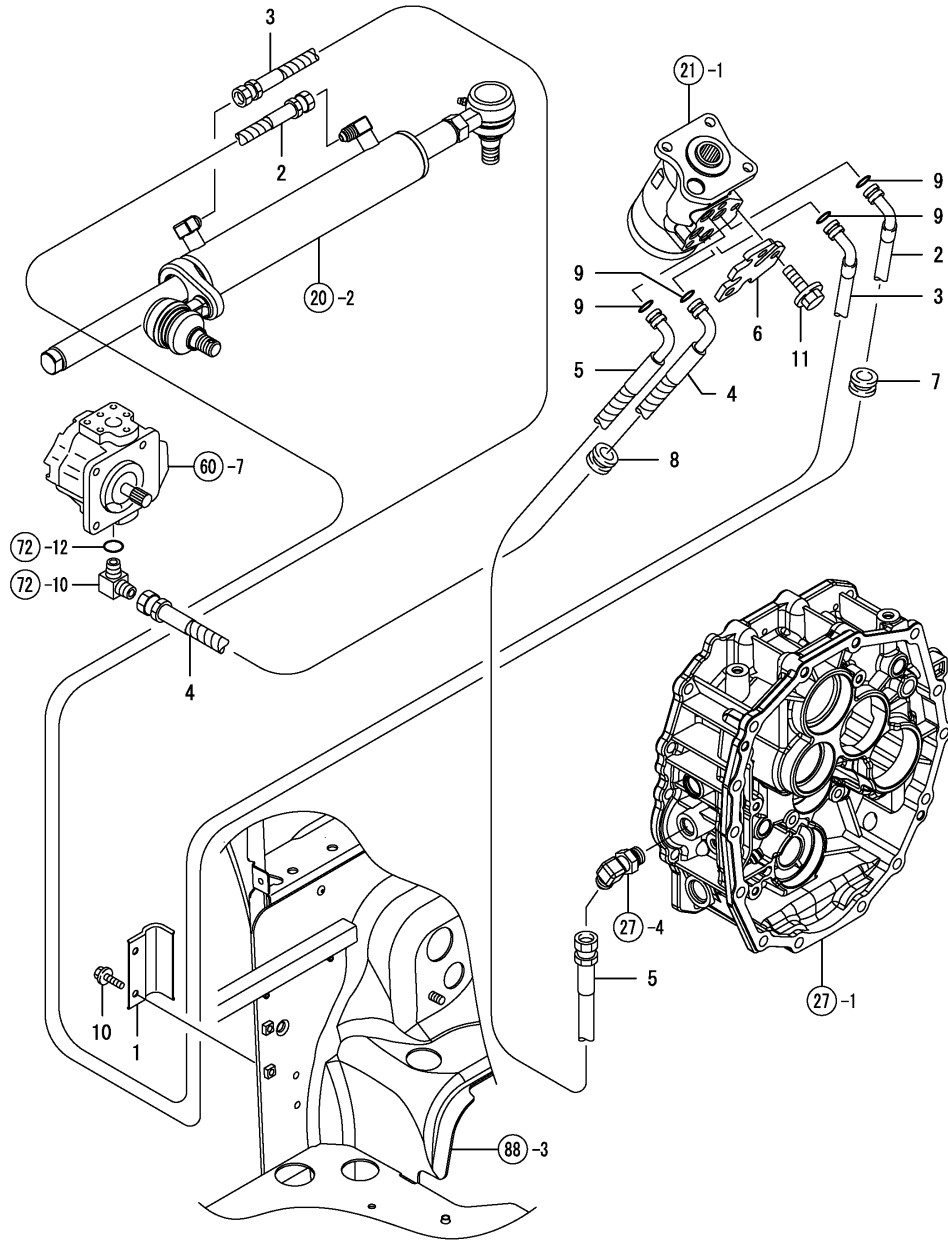


Fig.22. P.S.T. HOSE



(A)=EF227E
(B)=EF230E
(C)=EF233E

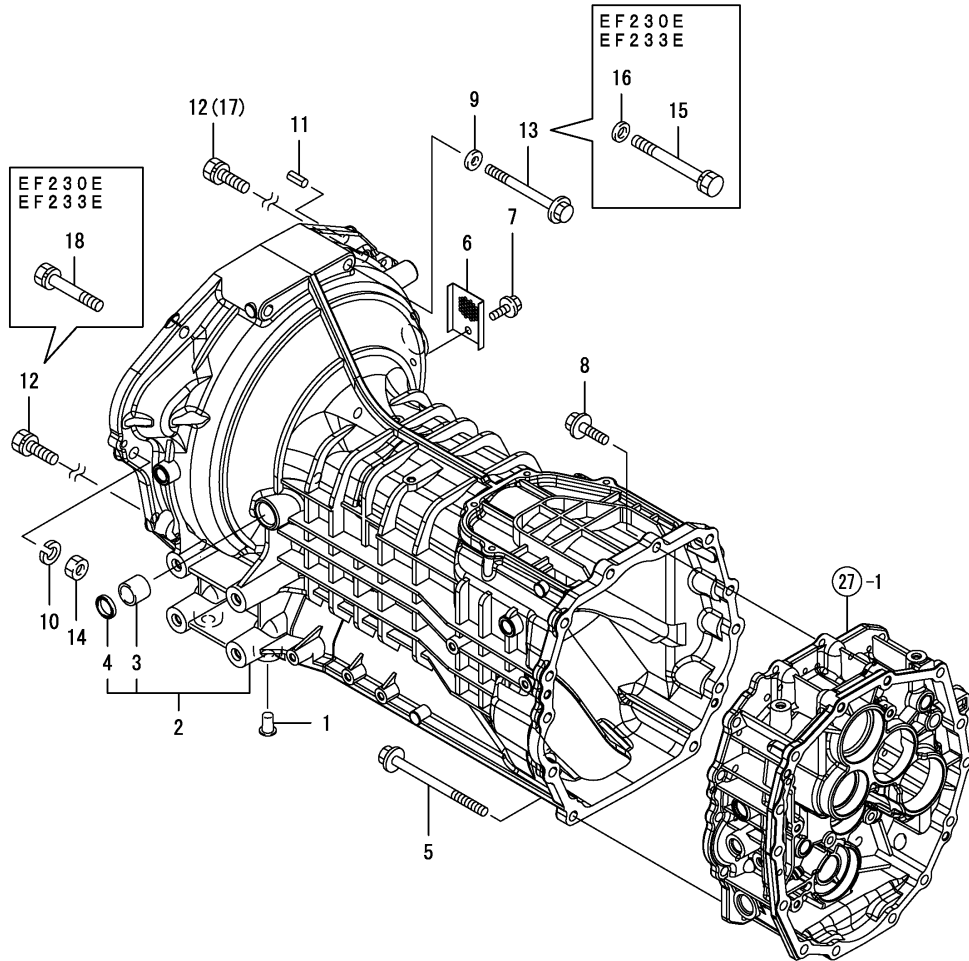
(D)=
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198200-17750	CLAMP	1	1	1					
2	1	198280-17810	HOSE, HYDRAULIC	1	1	1					
3	1	198280-17820	HOSE, HYDRAULIC	1	1	1					
4	1	198200-17830	HOSE, HYDRAULIC	1	1	1					
5	1	198200-17840	HOSE, HYDRAULIC	1	1	1					
6	1	198200-17910	PLATE,	1	1	1					
7	1	194170-51210	GROMMET 25	1	1	1					
8	1	198245-51210	GROMMET 25	1	1	1					
9	1	24311-000120	O-RING 1A P 12.0	4	4	4					
10	1	26106-060122	BOLT M 6X 12 PLATED	2	2	2					
11	1	26136-100162	BOLT, 10 X 16	3	3	3					

Fig.23. CLUTCH HOUSING

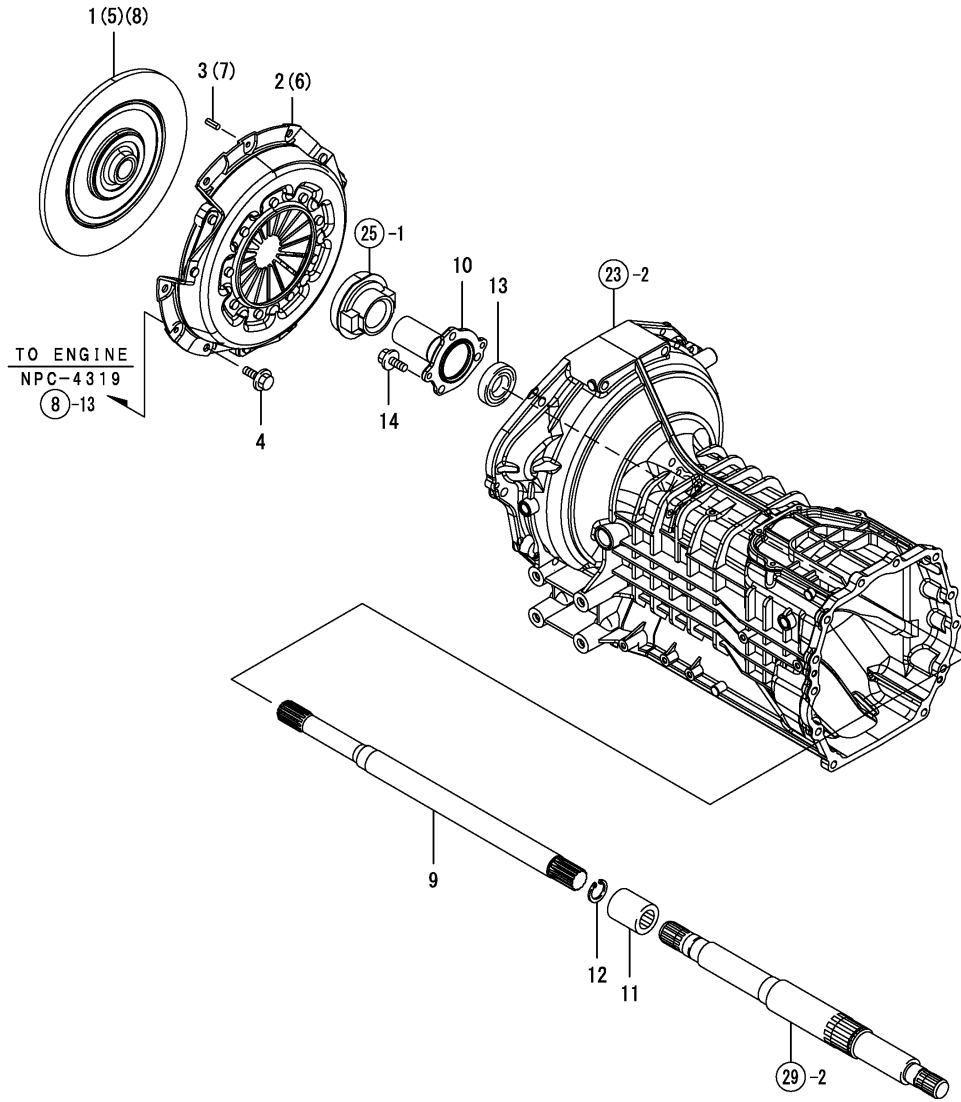
(A)=EF227E
(B)=EF230E
(C)=EF233E

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



REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194201-11230	CAP 11X21	4	4	4					
2	1	198200-21100	HOUSING ASSY, CLUTCH	1	1	1					
3	2	194680-22280	BUSH 20X26X22	2	2	2					
4	2	194680-22290	SEAL G202604,OIL	2	2	2					
5	1	198200-21140	BOLT, 10 X 135	10	10	10					
6	1	198280-21170	COVER, HOUSING	1	1	1					
7	1	26106-080122	BOLT M 8X 12 PLATED	1	1	1					
8	1	26106-100352	BOLT M10X 35 PLATED	2	2	2					
9	1	198200-21160	WASHER 10	2							
10	1	22217-120000	SPRING WASHER 12	1	1	1					
11	1	22351-080018	SPRING PIN 8X18	2	2	2					
12	1	26013-120352	BOLT M12X 35	6							
13	1	26106-101052	BOLT M10X105 PLATED	2							
14	1	26716-120002	NUT 12	1	1	1					
15	1	198206-21220	BOLT,12X110		2	2					
16	1	198206-21230	COLLER		2	2					
17	1	26013-120352	BOLT M12X 35		4	4					
18	1	26013-120702	BOLT 12X70 W/SP.WSHR		2	2					

Fig.24. CLUTCH & CLUTCH SHAFT



OCNP4-G43700 24. CLUTCH & CLUTCH SHAFT

(A)=EF227E
(B)=EF230E
(C)=EF233E

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

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198200-21510	DISK, CLUTCH 215	1							
2	1	194320-21700	PLATE, PRESSURE	1							
3	1	22351-060016	SPRING PIN 6X16	3							
4	1	26106-080162	BOLT M 8X 16 PLATED	6	6	6					
5	2	198208-21510	DISK, CLUTCH 225		1						
6	1	194220-21700	PLATE,PRESSURE		1	1					
7	1	22351-080018	SPRING PIN 8X18		3	3					
8	1	1A7000-21410	DISC			1					
9	1	198200-22111	SHAFT, MAIN DRIVE	1	1	1					
10	1	198200-22531	SLEEVE, BEARING	1	1	1					
11	1	194555-26520	COUPLING	1	1	1					
12	1	22252-000220	CIRCLIP 22	1	1	1					
13	1	24104-060054	BALL BEARING	1	1	1					
14	1	26106-080202	BOLT M 8X 20 PLATED	3	3	3					

Fig.25. CLUTCH RELEASE

(A)=EF227E
(B)=EF230E
(C)=EF233E

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

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198360-22210	BEARING,RELEASE	1	1	1					
2	1	198360-22250	HOOK,SPRING	1	1	1					
3	1	198071-22310	YOKE,CLUTCH SHIFT	1	1	1					
4	1	198071-22320	BOLT M8X40	2	2	2					
5	1	198200-22330	SHAFT,RELEASE CLUTCH	1	1	1					
6	1	194800-22480	SPRING 58	2	2	2					

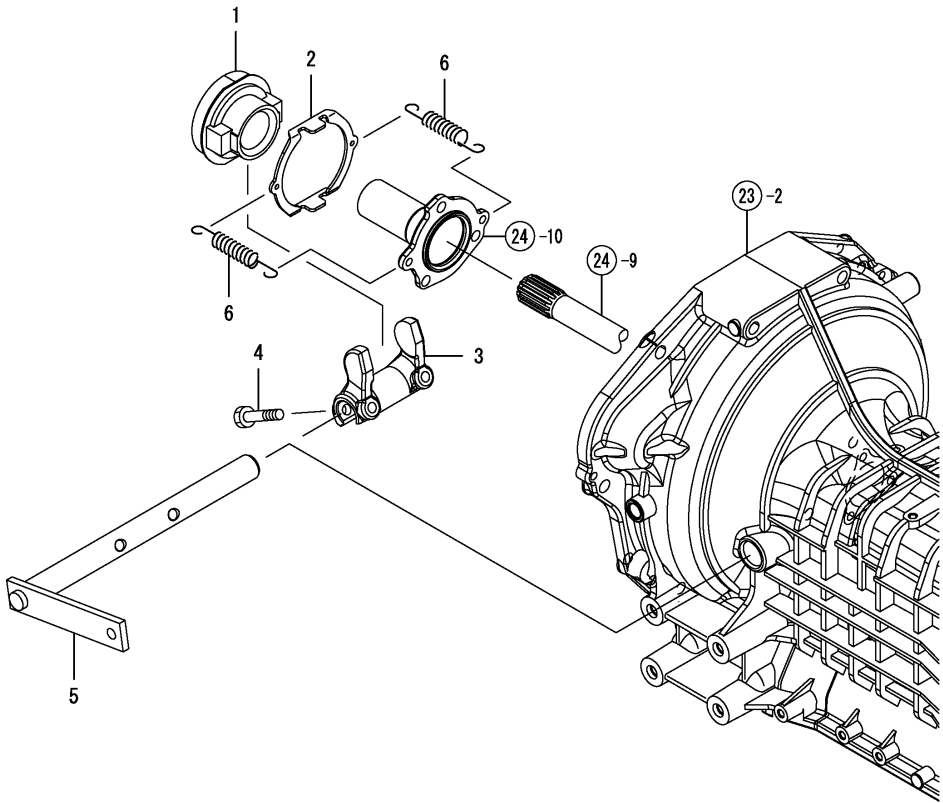
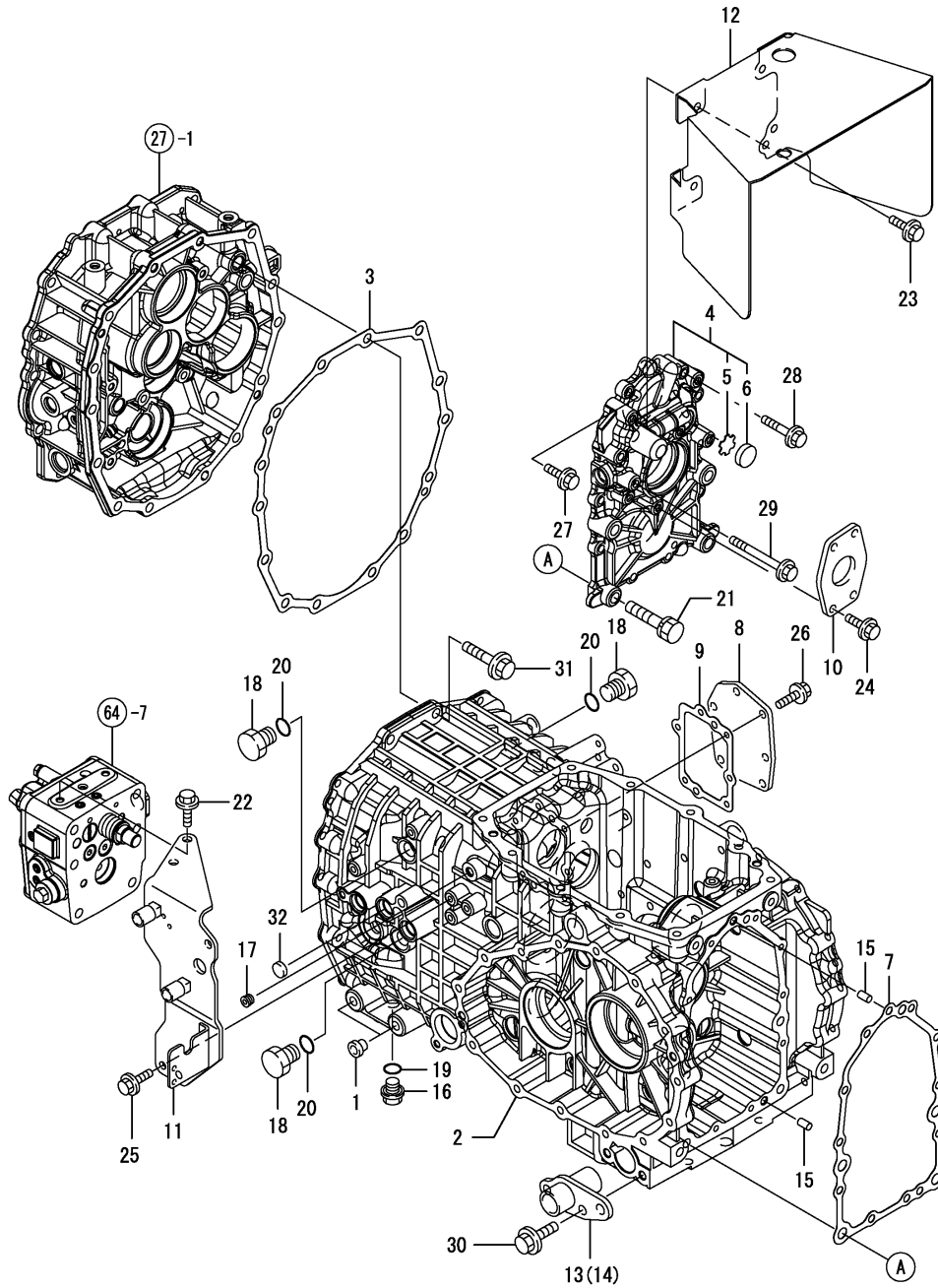


Fig.26. TRANSMISSION CASE



(A)=EF227E

(B)=EF230E

(C)=EF233E

(D)=

(E)=

(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194150-21910	PLUG 11.2	4	4	4					
2	1	198282-24110	HOUSING, XMSN.	1	1	1					
3	1	198200-24120	GASKET, XMSN.	1	1	1					
4	1	198282-24150	COVER ASSY, XMSN.	1	1	1					
5	2	198071-24350	PLATE,OL.INSP.WINDOW	1	1	1					
6	2	1A1040-28470	WINDOW 25,OIL CHECK	1	1	1					
7	1	198200-24170	GASKET, XMSN. COVER	1	1	1					
8	1	198280-24180	COVER, XMSN. SIDE	1	1	1					
9	1	198200-24190	GASKET, HOUSING	1	1	1					
10	1	198255-24460	PLATE, OIL SEAL	1	1	1					
11	1	198282-26710	STAY ASSY, LEVER	1	1	1					
12	1	198280-26901	GUARD M ASSY,PTO	1	1	1					
13	1	198280-73170	SUPPORT, LOWER LINK	1	1	1					
14	1	198280-73250	SUPPORT, LOWER LINK	1	1	1					
15	1	22312-080140	PIN 8X14,STRAIGHT	2	2	2					
16	1	23491-140002	PLUG 14	1	1	1					
17	1	23871-010000	PLUG PT1/8,SCREW	1	1	1					
18	1	23887-180002	PLUG 18	3	3	3					
19	1	24311-000160	O-RING 1A P-16.0	1	1	1					
20	1	24311-000180	O-RING 1A P-18.0	3	3	3					
21	1	26013-120552	BOLT M12X55	2	2	2					
22	1	26106-080162	BOLT M 8X 16 PLATED	2	2	2					
23	1	26106-080162	BOLT M 8X 16 PLATED	4	4	4					
24	1	26106-080162	BOLT M 8X 16 PLATED	2	2	2					
25	1	26106-080202	BOLT M 8X 20 PLATED	2	2	2					
26	1	26106-080202	BOLT M 8X 20 PLATED	6	6	6					
27	1	26106-080252	BOLT M 8X 25 PLATED	8	8	8					
28	1	26106-080452	BOLT M 8X 45 PLATED	1	1	1					
29	1	26106-080802	BOLT M 8X 80 PLATED	1	1	1					
30	1	26106-100252	BOLT M10X 25 PLATED	4	4	4					
31	1	26106-100502	BOLT M10X 50 PLATED	2	2	2					
32	1	27260-170000	PLUG 17,BORE	1	1	1					

Fig.27. CENTER PLATE

(A)=EF227E
(B)=EF230E
(C)=EF233E

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

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198282-24300	PLATE ASSY, CENTER	1	1	1					
2	2	198282-24330	PLUG	1	1	1					
3	1	192167-24600	PLUG	1	1	1					
4	1	1E6680-66470	ELBOW 3/8 W/SEAT	1	1	1					
5	1	22190-100000	SEAL WASHER 10(BOLT)	1	1	1					
6	1	22312-080140	PIN 8X14,STRAIGHT	2	2	2					
7	1	22312-080140	PIN 8X14,STRAIGHT	2	2	2					
8	1	23414-220000	PACKING 22,ROUND	1	1	1					
9	1	23887-220002	PLUG M22,HEX.	1	1	1					
10	1	24311-000140	O-RING 1A P-14.0	1	1	1					
11	1	24311-000140	O-RING 1A P-14.0	1	1	1					
12	1	24421-305011	SEAL, TC305011	1	1	1					
13	1	26106-100162	BOLT M10X 16 PLATED	1	1	1					
14	1	26106-100302	BOLT M10X 30 PLATED	2	2	2					

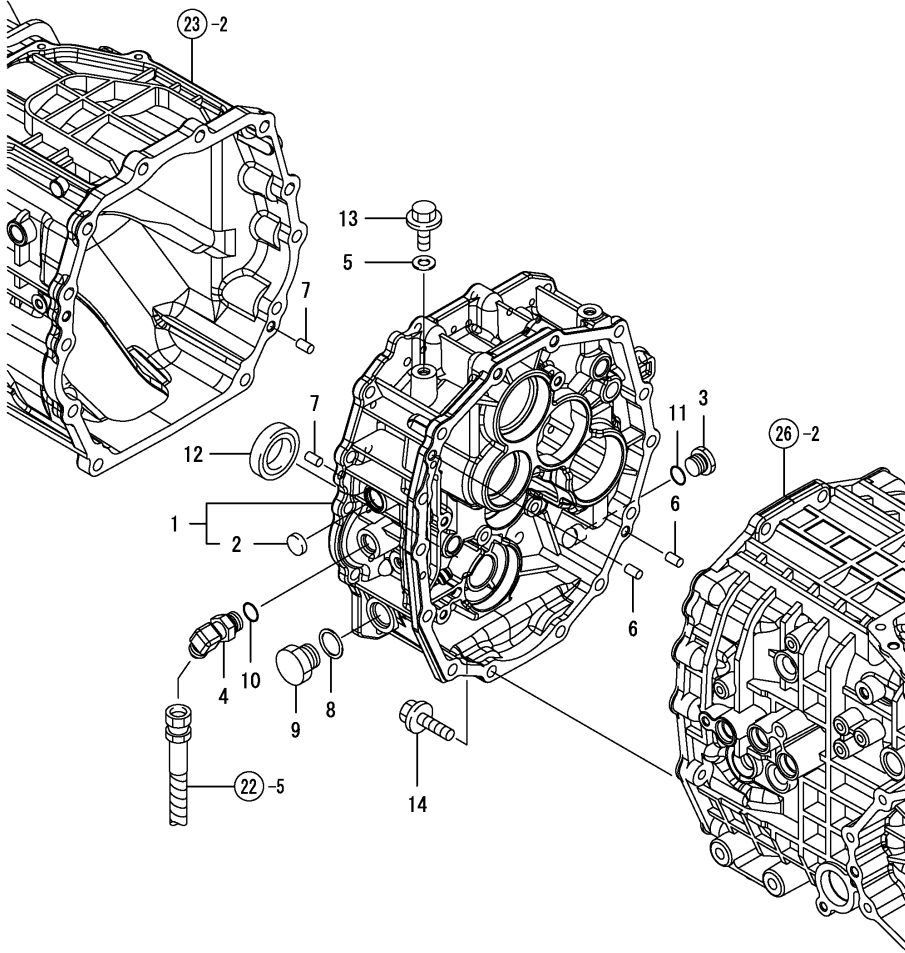


Fig.28. REVERSE HOUSING

(A)=EF227E
(B)=EF230E
(C)=EF233E

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

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198200-24320	OIL SEAL	1	1	1					
2	1	198200-24410	HOUSING, REVERSER	1	1	1					
3	1	198200-24420	GASKET, HOUSING	1	1	1					
4	1	22312-080140	PIN 8X14,STRAIGHT	2	2	2					
5	1	26106-080252	BOLT M 8X 25 PLATED	13	13	13					

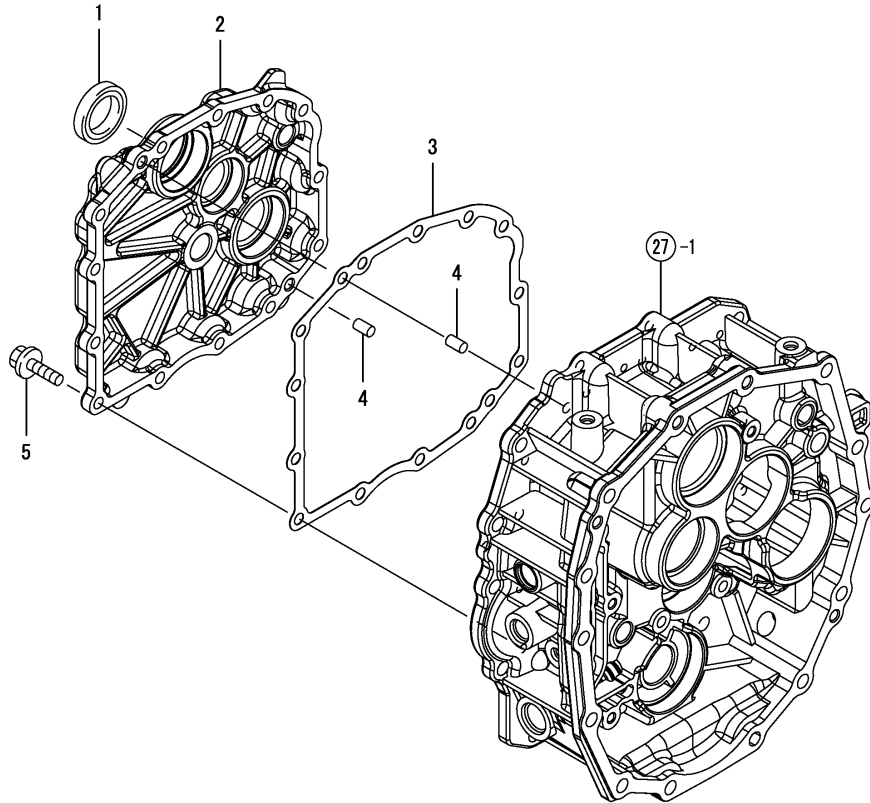


Fig.30. MAIN SHAFT

0CNP4-G43700 30. MAIN SHAFT

(A)=EF227E
(B)=EF230E
(C)=EF233E

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

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198200-25120	GEAR, MAIN	1	1	1					
2	1	198200-25210	SHAFT, MAIN	1	1	1					
3	1	24101-063044	BALL BEARING	2	2	2					

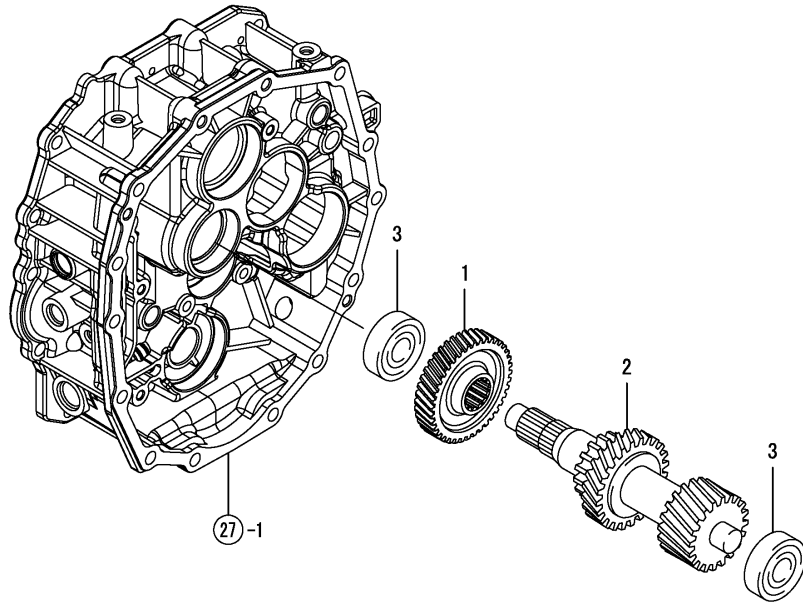
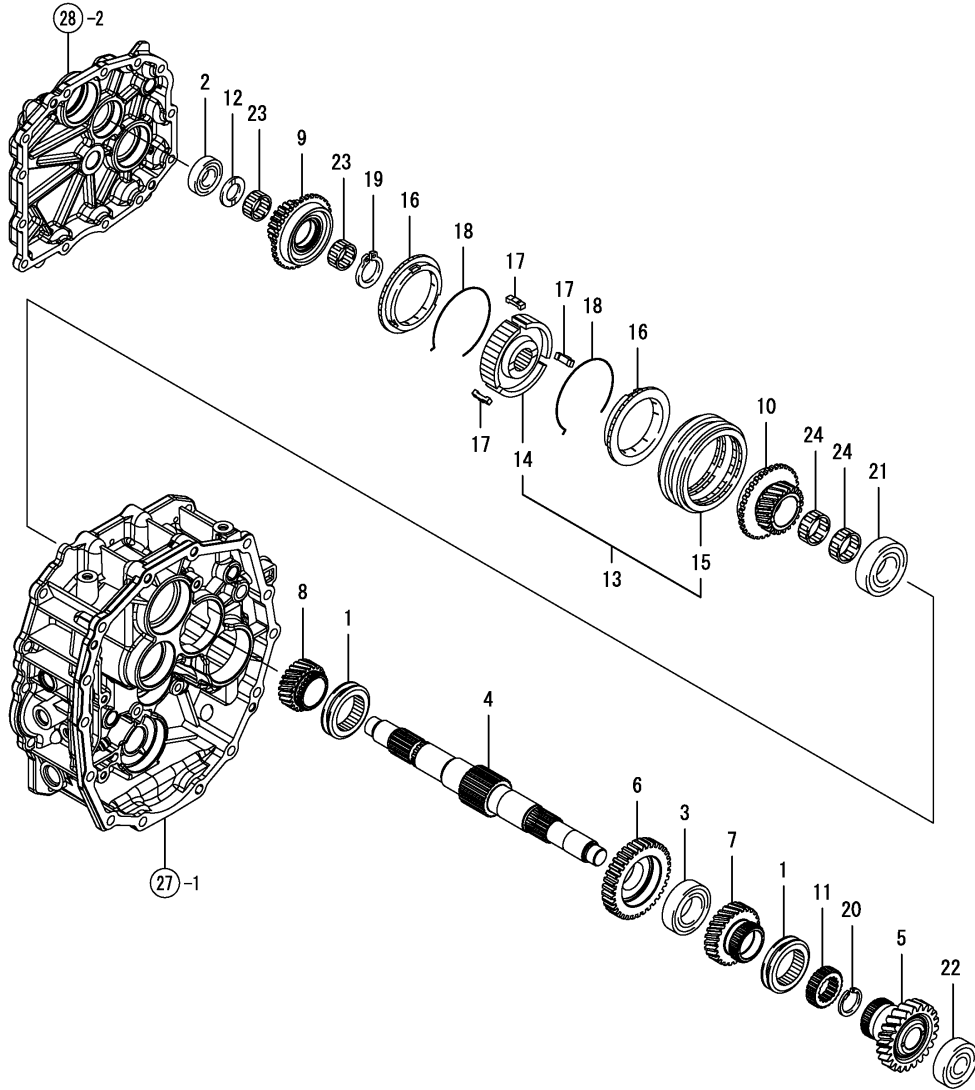


Fig.31. REVERSE SHAFT

(A)=EF227E
(B)=EF230E
(C)=EF233E

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



REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198200-25150	SHIFTER, MAIN SHIFT	2	2	2					
2	1	194515-25180	BALL BEARING	1	1	1					
3	1	194800-25250	BALL BEARING	1	1	1					
4	1	198200-25410	SHAFT, REVERSER	1	1	1					
5	1	198200-25420	GEAR, MAIN SHIFT	1	1	1					
6	1	198200-25430	GEAR, MAIN SHIFT	1	1	1					
7	1	198200-25440	GEAR, MAIN SHIFT	1	1	1					
8	1	198200-25450	GEAR, MAIN SHIFT	1	1	1					
9	1	198200-25460	GEAR, DRIVEN	1	1	1					
10	1	198200-25470	GEAR, DRIVEN	1	1	1					
11	1	198200-25480	COLLAR, SPLINE 25	1	1	1					
12	1	198200-25490	WASHER, 20	1	1	1					
13	1	198121-25800	HUB ASSY, SYNCHRO	1	1	1					
14	2	198121-25820	HUB, SYNCHRO	1	1	1					
15	2	198121-25830	SLIDER	1	1	1					
16	1	198121-25840	SYNCHRONIZER RING	2	2	2					
17	1	198121-25850	KEY A SYNCHRONIZER	3	3	3					
18	1	198121-25870	SPRING (SYNCHRONIZE	2	2	2					
19	1	22242-000290	CIRCLIP 29	1	1	1					
20	1	22292-000280	CIRCLIP S-28	1	1	1					
21	1	24101-062064	BALL BEARING 6206	1	1	1					
22	1	24101-063044	BALL BEARING	1	1	1					
23	1	24161-253013	NEEDLE BEARING	2	2	2					
24	1	24161-303513	NEEDLE BEARING	2	2	2					

Fig.32. REDUCTION SHAFT

(A)=EF227E
 (B)=EF230E
 (C)=EF233E

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

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198200-25510	SHAFT, REDUCTION	1	1	1					
2	1	198200-25650	GEAR, DRIVE	1	1	1					
3	1	198200-25660	GEAR, REVERSER R	1	1	1					
4	1	194640-26440	BALL BEARING	1	1	1					
5	1	22242-000290	CIRCLIP 29	1	1	1					
6	1	24101-062034	BALL BEARING	1	1	1					
7	1	24101-062044	BALL BEARING #6204	1	1	1					

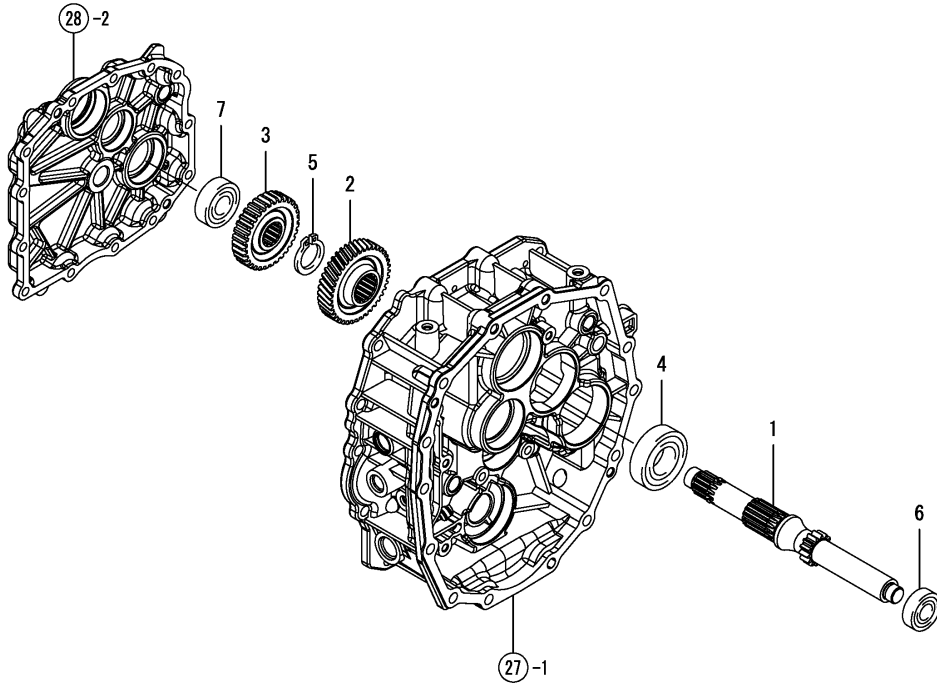
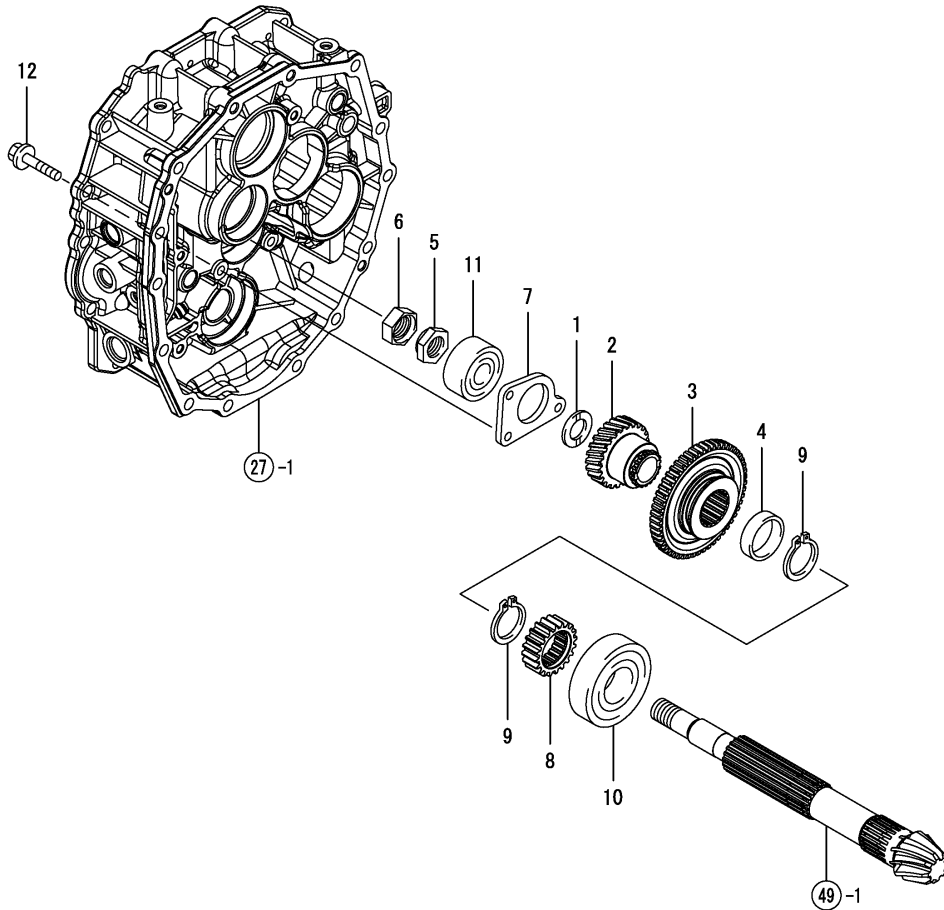


Fig.33. COUNTER SHAFT

(A)=EF227E
(B)=EF230E
(C)=EF233E

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



REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198200-25490	WASHER, 20	1	1	1					
2	1	198200-25520	GEAR, COUNTER	1	1	1					
3	1	198200-25530	GEAR, SLIDE	1	1	1					
4	1	198282-25540	COLLAR, 36X43X11	1	1	1					
5	1	198200-25550	NUT, 20	1	1	1					
6	1	198200-25560	NUT, 20	1	1	1					
7	1	198200-25590	PLATE, KEEP	1	1	1					
8	1	198200-28250	GEAR, FRONT DRIVE	1	1	1					
9	1	22242-000340	CIRCLIP 34	2	2	2					
10	1	24101-063074	BEARING	1	1	1					
11	1	24512-053044	BEARING	1	1	1					
12	1	26106-080402	BOLT M 8X 40 PLATED	3	3	3					

Fig.34. REVERSE IDLE SHAFT

(A)=EF227E
 (B)=EF230E
 (C)=EF233E

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

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198200-25490	WASHER, 20	1	1	1					
2	1	198172-25630	NUT	1	1	1					
3	1	198172-25640	NUT	1	1	1					
4	1	198200-25910	SHAFT, REVERSE IDLE	1	1	1					
5	1	198200-25930	GEAR, REVERSE IDLE	1	1	1					
6	1	22137-120000	WASHER 12,POLISHED	1	1	1					
7	1	24161-253017	NEEDLE BEARING	1	1	1					
8	1	24311-000160	O-RING 1A P-16.0	1	1	1					

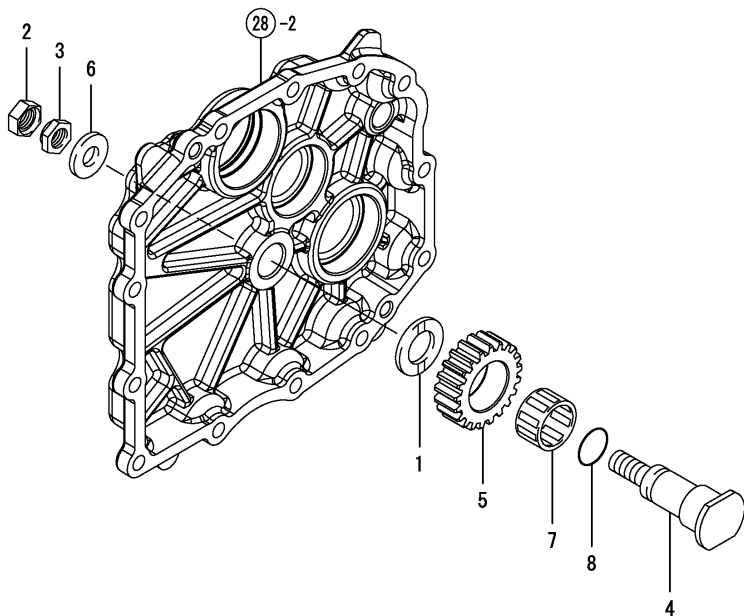


Fig.35. P.T.O. DRIVE SHAFT

(A)=EF227E
(B)=EF230E
(C)=EF233E

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

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198212-25150	COUPLING 13*16/32	1	1	1					
2	1	194640-25390	BALL BEARING	1	1	1					
3	1	198282-26250	SHAFT, PINION	1	1	1					
4	1	22252-000190	CIRCLIP 19	1	1	1					
5	1	24101-063054	BEARING #6305	1	1	1					

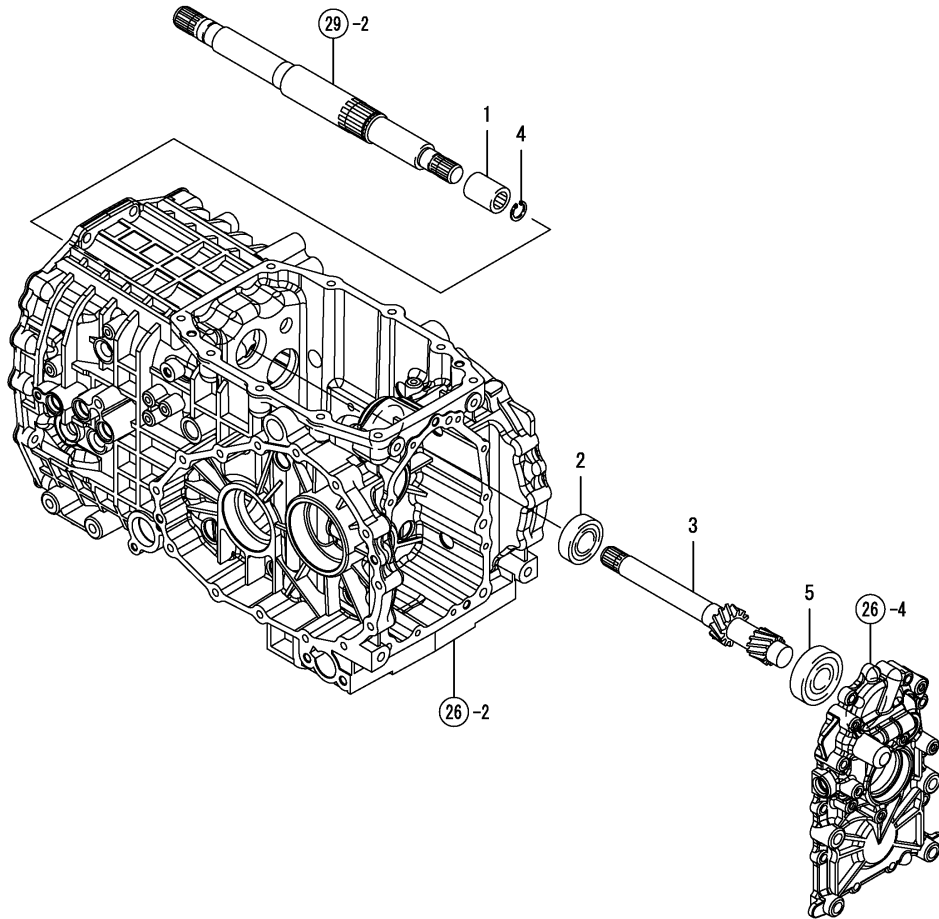
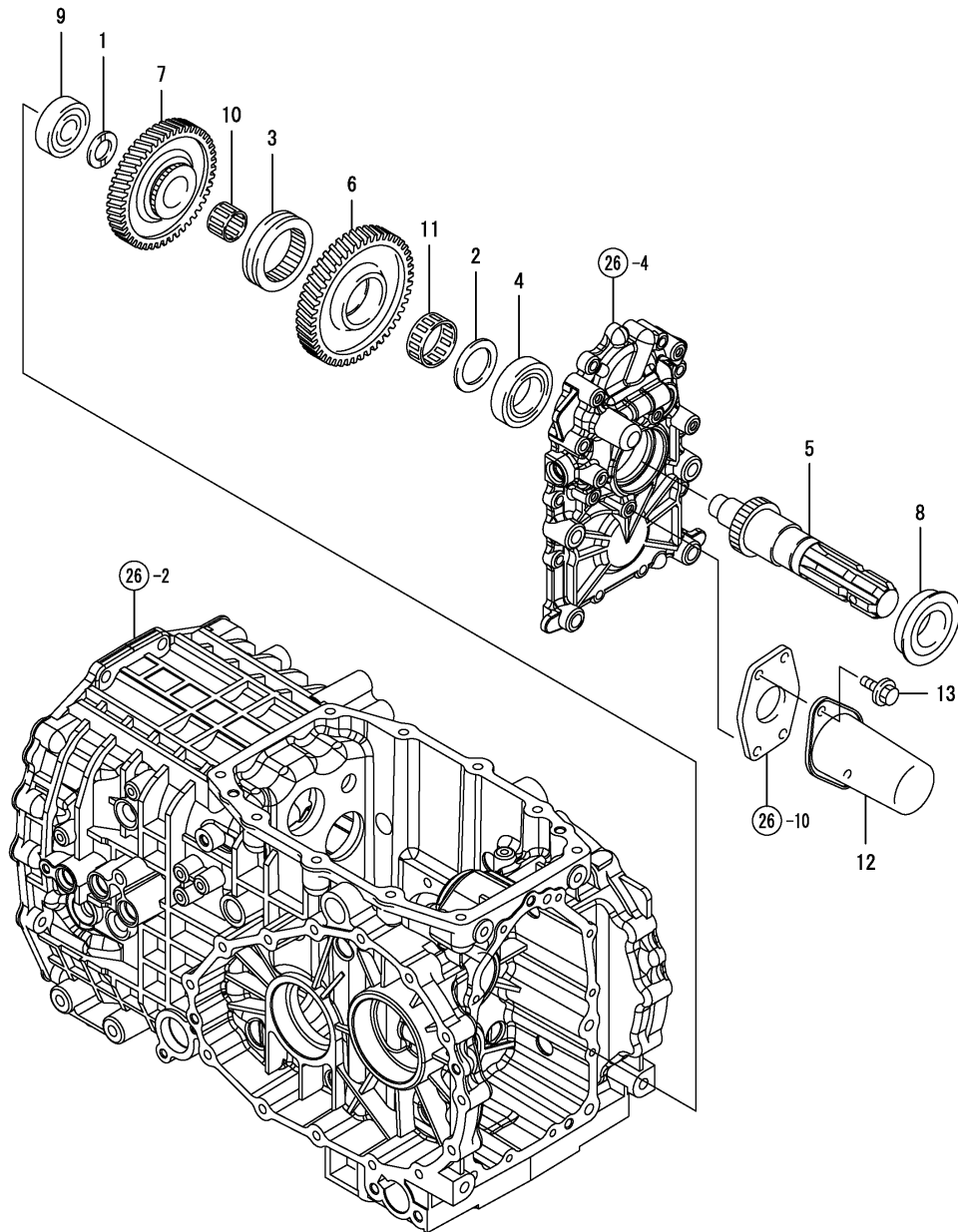


Fig.36. P.T.O. SHAFT



(A)=EF227E
(B)=EF230E
(C)=EF233E

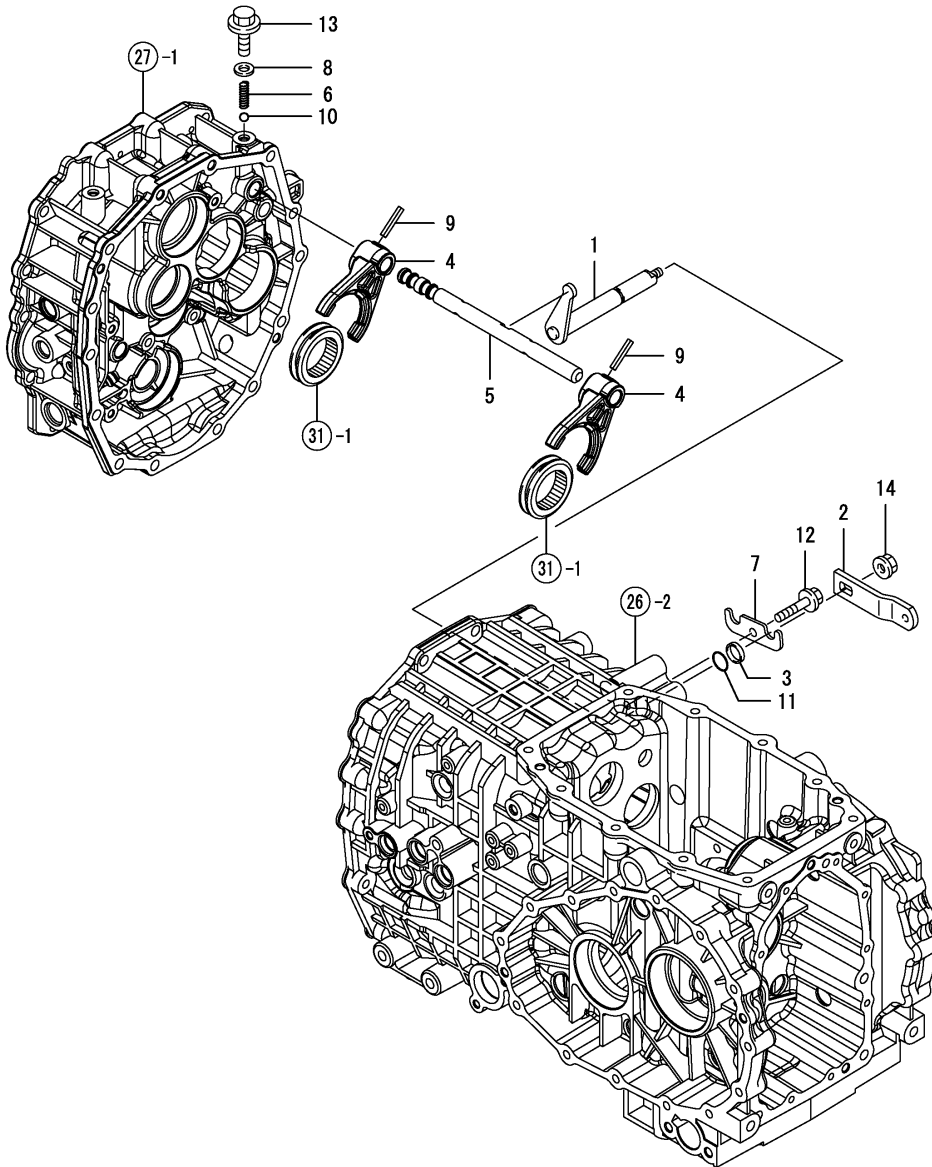
(D)=
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198200-25490	WASHER, 20	1	1	1					
2	1	194180-25550	WASHER 35X50X3	1	1	1					
3	1	198149-25890	SHIFTER	1	1	1					
4	1	194680-25940	BEARING (TMB007)	1	1	1					
5	1	198282-26310	SHAFT, PTO.	1	1	1					
6	1	198282-26320	GEAR, PTO. DRIVEN	1	1	1					
7	1	198282-26330	GEAR, PTO. DRIVEN	1	1	1					
8	1	194370-26350	SEAL QLF 35 60 19	1	1	1					
9	1	24101-063044	BALL BEARING	1	1	1					
10	1	24161-253020	NEEDLE, 253020	1	1	1					
11	1	24161-404517	NEEDLE BEARING	1	1	1					
12	1	1A7100-26850	COVER M COMP.,SHAFT	1	1	1					
13	1	26106-080122	BOLT M 8X 12 PLATED	2	2	2					

Fig.37. MAIN CHANGE SHIFT

(A)=EF227E
(B)=EF230E
(C)=EF233E

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



REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198200-27110	ARM, MAIN SHIFT	1	1	1					
2	1	198200-27141	ARM, MAIN SHIFT	1	1	1					
3	1	198119-27150	COLLOR	1	1	1					
4	1	198200-27170	FORK, SHIFT MAIN	2	2	2					
5	1	198200-27180	SHAFT, FORK MAIN	1	1	1					
6	1	194145-27450	SPRING	1	1	1					
7	1	198200-27740	PLATE B	1	1	1					
8	1	22190-100000	SEAL WASHER 10(BOLT)	1	1	1					
9	1	22351-060032	SPRING PIN 6X32	2	2	2					
10	1	24190-100001	BALL 5/16, STEEL	1	1	1					
11	1	24311-000160	O-RING 1A P-16.0	1	1	1					
12	1	26106-080402	BOLT M 8X 40 PLATED	1	1	1					
13	1	26106-100162	BOLT M10X 16 PLATED	1	1	1					
14	1	26366-080002	NUT M 8	1	1	1					

Fig.38. MAIN CHANGE LEVER

(A)=EF227E
(B)=EF230E
(C)=EF233E

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

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198200-28101	LEVER ASSY, SHIFT	1	1	1					
2	2	24550-016100	BUSH 16X10, DRY	2	2	2					
3	1	198200-28160	BRACKET R, LEVER	1	1	1					
4	1	198221-28450	WASHER 16	1	1	1					
5	1	198200-28650	SHAFT, MAIN LEVER	1	1	1					
6	1	26106-060122	BOLT M 6X 12 PLATED	1	1	1					
7	1	26106-080162	BOLT M 8X 16 PLATED	3	3	3					

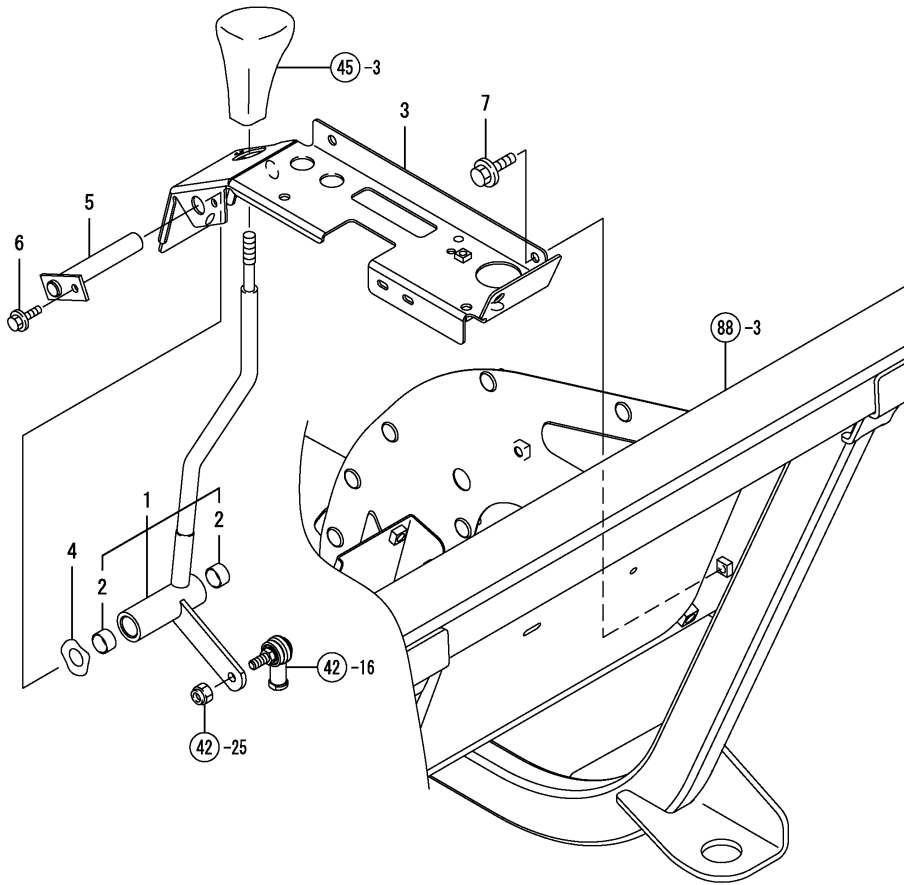
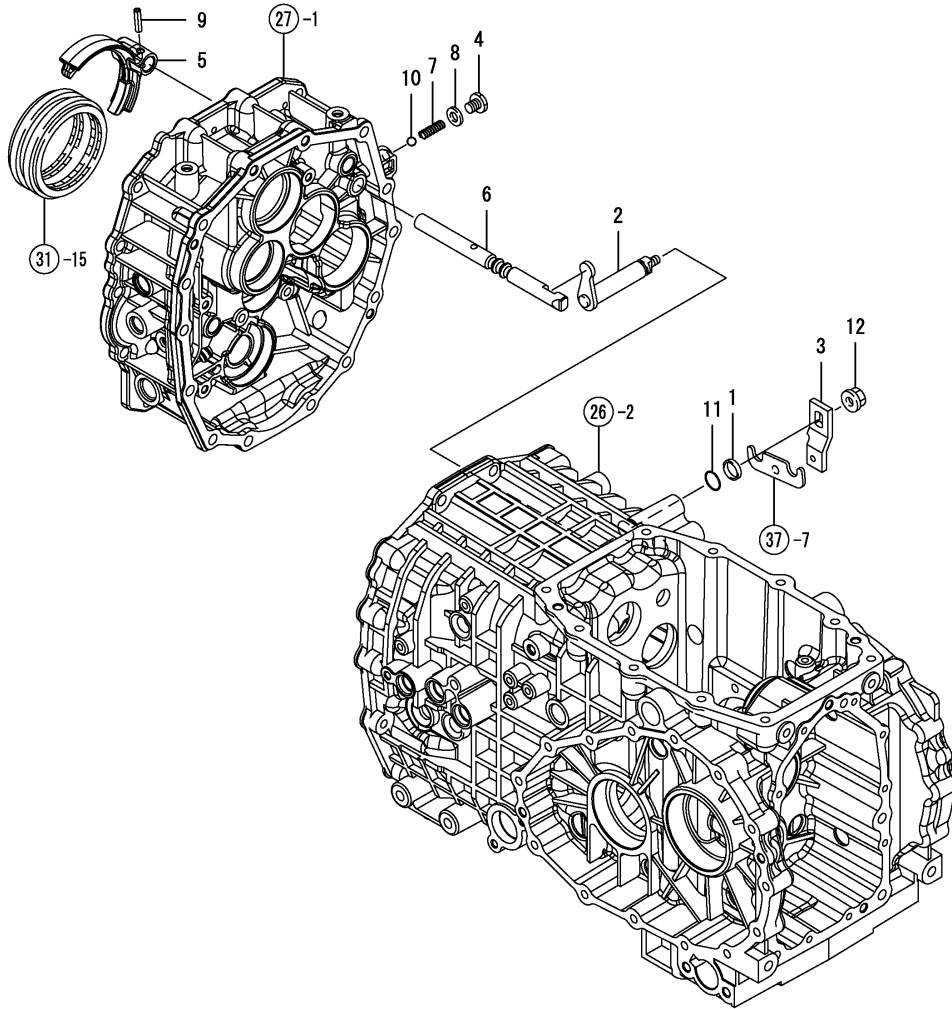


Fig.39. REVERSE SHIFT

(A)=EF227E
(B)=EF230E
(C)=EF233E

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



REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198119-27150	COLLOR	1	1	1					
2	1	198200-27310	ARM, SHIFT REVERSER	1	1	1					
3	1	198200-27340	ARM, REVERSE SHIFT	1	1	1					
4	1	198200-27360	PLUG 10	1	1	1					
5	1	198200-27370	FORK, SHIFT REVERSER	1	1	1					
6	1	198200-27380	SHAFT, FORK REVERSER	1	1	1					
7	1	194145-27450	SPRING	1	1	1					
8	1	22190-100000	SEAL WASHER 10(BOLT)	1	1	1					
9	1	22351-060025	SPRING PIN 6X25	1	1	1					
10	1	24190-100001	BALL 5/16, STEEL	1	1	1					
11	1	24311-000160	O-RING 1A P-16.0	1	1	1					
12	1	26366-080002	NUT M 8	1	1	1					

Fig.41. SUB CHANGE SHIFT

(A)=EF227E
(B)=EF230E
(C)=EF233E

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

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198119-27150	COLLOR	1	1	1					
2	1	194145-27450	SPRING	1	1	1					
3	1	198282-27520	ARM, RANGE SHIFT	1	1	1					
4	1	198119-27570	PLATE	1	1	1					
5	1	198282-27570	SHAFT, FORK	1	1	1					
6	1	198282-27580	FORK, RANGE SHIFT	1	1	1					
7	1	198282-27590	BOLT, SET	1	1	1					
8	1	198072-27650	ARM, SHIFT	1	1	1					
9	1	22190-100000	SEAL WASHER 10(BOLT)	1	1	1					
10	1	22351-060032	SPRING PIN 6X32	1	1	1					
11	1	24190-100001	BALL 5/16, STEEL	1	1	1					
12	1	24311-000160	O-RING 1A P-16.0	1	1	1					
13	1	26106-080162	BOLT M 8X 16 PLATED	1	1	1					

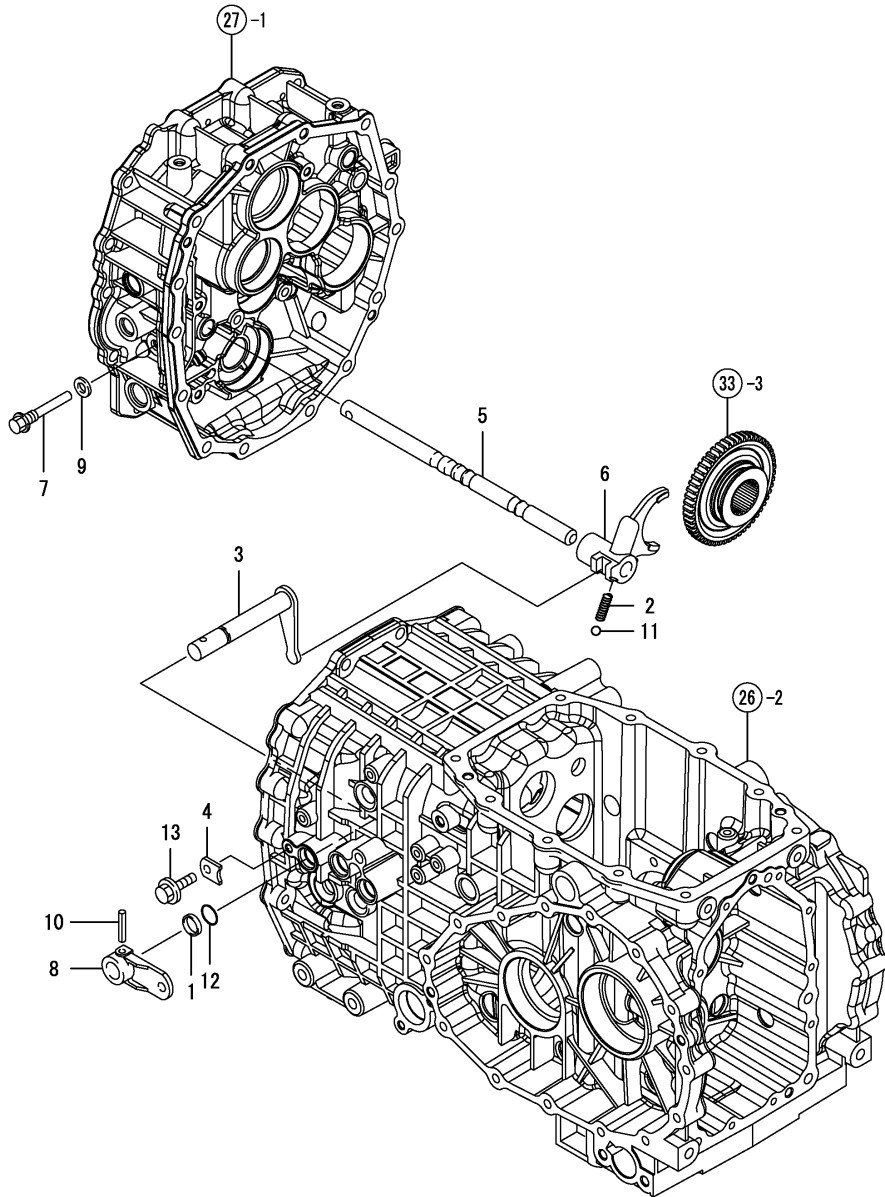
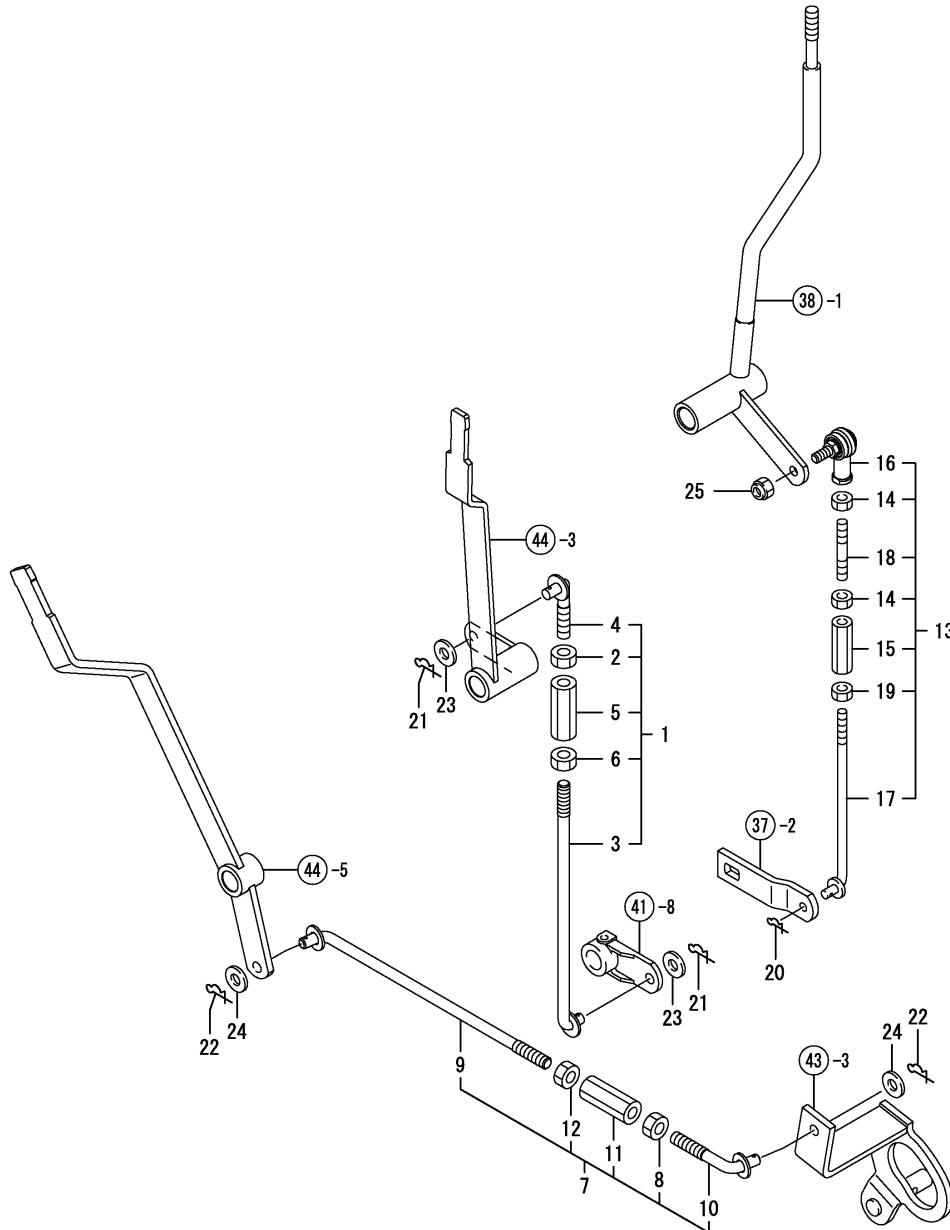


Fig.42. SHIFT LINK

(A)=EF227E
(B)=EF230E
(C)=EF233E

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



REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198280-27650	ROD ASSY, RENGE SHIF	1	1	1					
2	2	194150-22480	NUT M10	1	1	1					
3	2	198280-27660	ROD ASSY, M10	1	1	1					
4	2	198121-28160	ROD M10,LEFT	1	1	1					
5	2	194250-47490	TURNBUCKLE 10X50	1	1	1					
6	2	26716-100002	NUT 10	1	1	1					
7	1	198282-27960	ROD ASSY,PTO SHIFT	1	1	1					
8	2	194150-22480	NUT M10	1	1	1					
9	2	198282-27970	ROD,A ASSY,PTO SHIFT	1	1	1					
10	2	198280-28000	L-BOLT,M10 L	1	1	1					
11	2	194250-47490	TURNBUCKLE 10X50	1	1	1					
12	2	26716-100002	NUT 10	1	1	1					
13	1	198200-28051	ROD ASSY, MAIN SHIFT	1	1	1					
14	2	194990-20170	NUT W/WASHER 8	2	2	2					
15	2	1C6140-43442	TURNBUCKLE 8X46	1	1	1					
16	2	194820-27370	END (L), ROD	1	1	1					
17	2	198200-28061	ROD, SHIFT	1	1	1					
18	2	198200-28080	ROD	1	1	1					
19	2	26716-080002	NUT M 8	1	1	1					
20	1	1C6281-52320	PIN 8,COME-OFF SNAP	1	1	1					
21	1	1C6360-65700	SNAP PIN 10	2	2	2					
22	1	1C6360-65700	SNAP PIN 10	2	2	2					
23	1	22137-100000	WASHER 10,POLISHED	2	2	2					
24	1	22137-100000	WASHER 10,POLISHED	2	2	2					
25	1	26346-080002	U-NUT M 8 PLATED	1	1	1					

Fig.43. P.T.O. SHIFT

(A)=EF227E

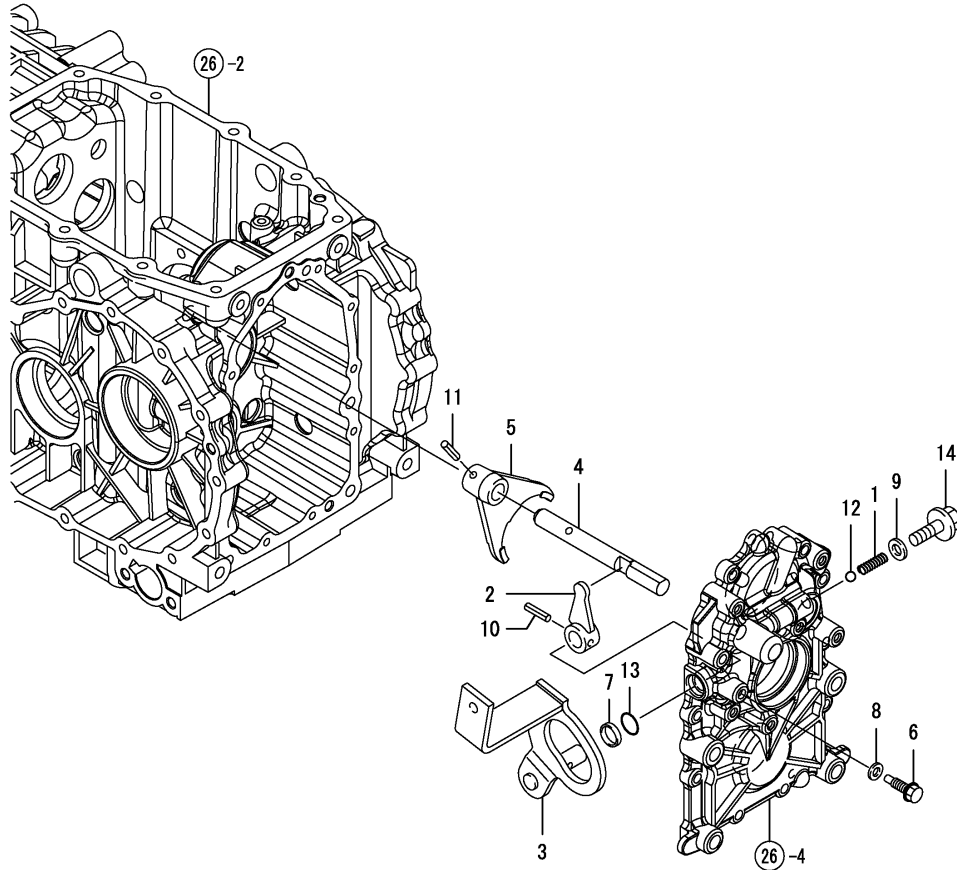
(B)=EF230E

(C)=EF233E

(D)=

(E)=

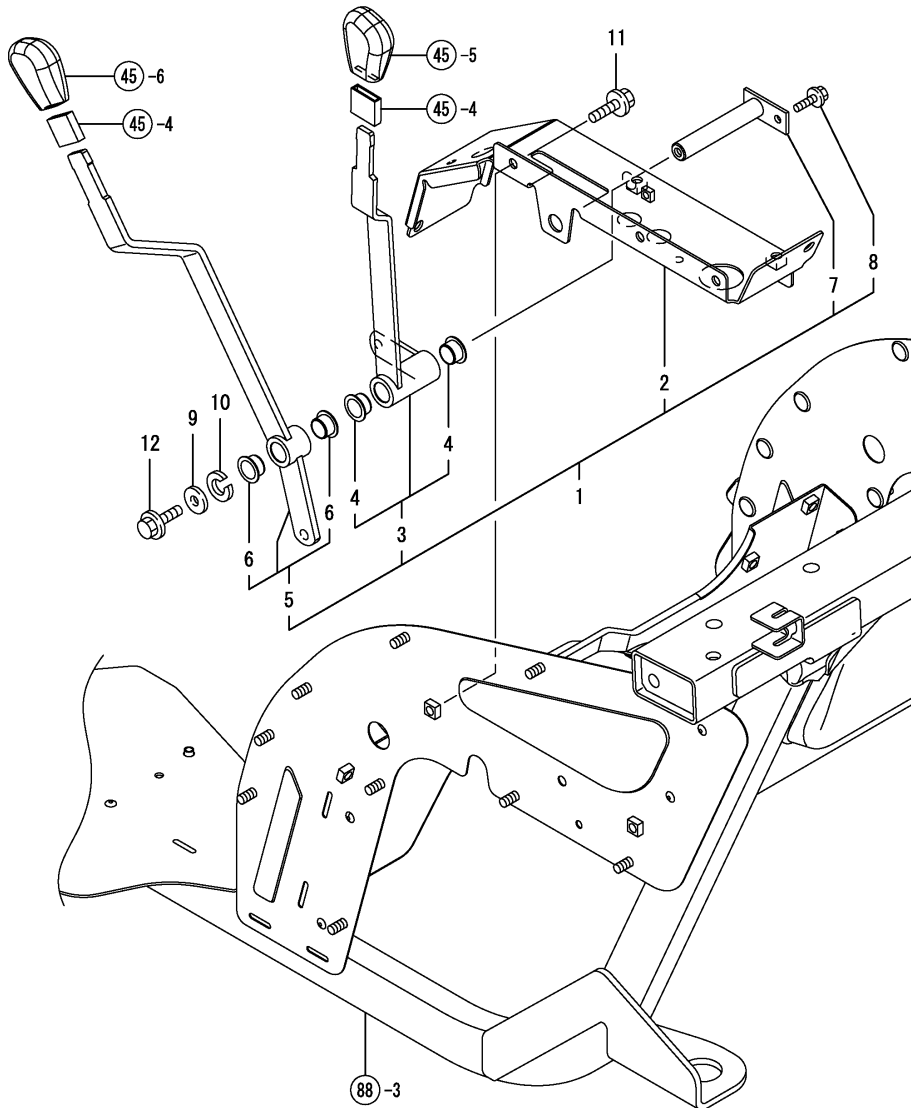
(F)=



REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194680-27540	SPRING, FORK LOCK	1	1	1					
2	1	198280-27710	ARM, PTO. SHIFT	1	1	1					
3	1	198282-27740	ARM, PTO. SHIFT	1	1	1					
4	1	198280-27770	SHAFT, FORK PTO.	1	1	1					
5	1	198282-27780	FORK, PTO SHIFT	1	1	1					
6	1	198280-27790	BOLT, SET	1	1	1					
7	1	198121-28380	COLLAR B, SHIFT ARM	1	1	1					
8	1	22190-080000	SEAL WASHER 8(BOLT)	1	1	1					
9	1	22190-100000	SEAL WASHER 10(BOLT)	1	1	1					
10	1	22351-060025	SPRING PIN 6X25	1	1	1					
11	1	22351-060025	SPRING PIN 6X25	1	1	1					
12	1	24190-080001	BALL 1/4, STEEL	1	1	1					
13	1	24311-000150	O-RING 1A P-15.0	1	1	1					
14	1	26106-100302	BOLT M10X 30 PLATED	1	1	1					

Fig.44. SUB CHANGE & P.T.O. LEVER

OCNP4-G43700 44. SUB CHANGE & P.T.O. LEVER



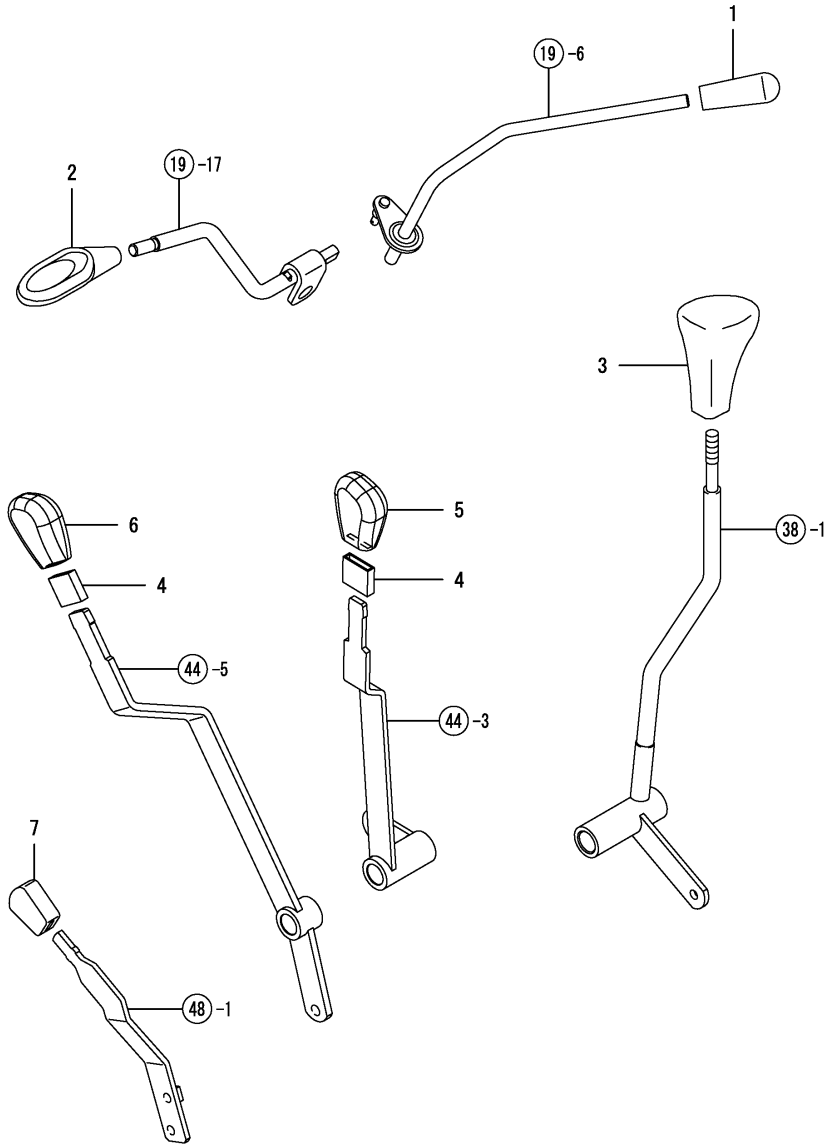
(A)=EF227E
(B)=EF230E
(C)=EF233E

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

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198282-27800	LEVER ASSY	1	1	1					
I 2	2	198200-27640	BRACKET, LEVER L	1	1	1					
3	2	198282-27820	LEVER ASSY,SHIFT	1	1	1					
4	3	1S6489-63330	LFF 1610	2	2	2					
5	2	198282-27880	LEVER ASSY,PTO SHIF	1	1	1					
6	3	1S6489-63330	LFF 1610	2	2	2					
7	2	198200-28660	SHAFT, LEVER	1	1	1					
8	2	26116-060122	BOLT 6X12	1	1	1					
9	1	22157-080000	WASHER 8	1	1	1					
10	1	22217-160000	SPRING WASHER 16	1	1	1					
11	1	26106-080162	BOLT M 8X 16 PLATED	4	4	4					
12	1	26106-080162	BOLT M 8X 16 PLATED	1	1	1					

N:Old $\left\langle \begin{smallmatrix} \text{Yes} \\ \text{No} \end{smallmatrix} \right\rangle$ New, Q:Old $\left\langle \begin{smallmatrix} \text{No} \\ \text{Yes} \end{smallmatrix} \right\rangle$ New, R:Old $\left\langle \begin{smallmatrix} \text{Yes} \\ \text{No} \end{smallmatrix} \right\rangle$ New, S:Old $\left\langle \begin{smallmatrix} \text{No} \\ \text{Yes} \end{smallmatrix} \right\rangle$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
(C)Copy Rights YANMAR CO.,LTD.

Fig.45. KNOB

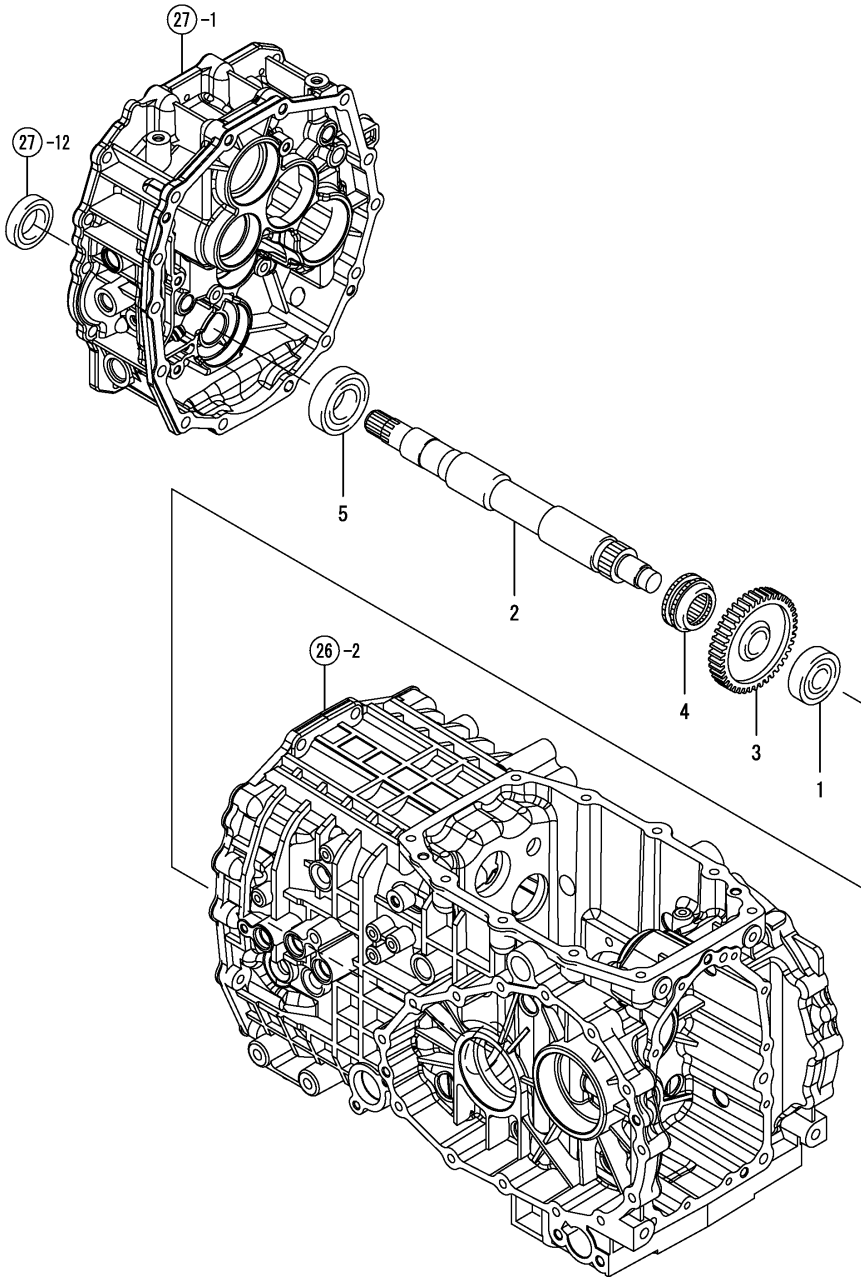


(A)=EF227E
(B)=EF230E
(C)=EF233E

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

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194464-01190	KNOB, THROTTLE LEVER	1	1	1					
2	1	198273-18350	KNOB;REVERSER LEVER	1	1	1					
3	1	1A7600-27310	KNOB, MAIN SHIFT	1	1	1					
4	1	174845-27700	BOOT, SHAFT	2	2	2					
5	1	198200-27810	KNOB, ORANGE	1	1	1					
6	1	198200-27910	KNOB, YELLOW	1	1	1					
7	1	198273-28520	KNOB,P BRAKE	1	1	1					

Fig.46. FRONT DRIVE



(A)=EF227E
(B)=EF230E
(C)=EF233E

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

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194447-13860	BALL BEARING	1	1	1					
2	1	198282-28180	SHAFT, FRONT DRIVE	1	1	1					
3	1	198282-28340	GEAR, FRONT DRIVE	1	1	1					
4	1	198282-28360	SHIFTER	1	1	1					
5	1	24101-062064	BALL BEARING 6206	1	1	1					

Fig.47. FRONT SHIFT

(A)=EF227E
(B)=EF230E
(C)=EF233E

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

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198119-27150	COLLOR	1	1	1					
2	1	194145-27450	SPRING	1	1	1					
3	1	198200-27730	PLATE A,KEEP	1	1	1					
4	1	198282-28410	ARM, 4WD SHIFT	1	1	1					
5	1	198282-28430	FORK, 4WD SHIFT	1	1	1					
6	1	198282-28440	ARM, 4WD SHIFT	1	1	1					
7	1	24190-100001	BALL 5/16, STEEL	1	1	1					
8	1	24311-000160	O-RING 1A P-16.0	1	1	1					
9	1	26106-080402	BOLT M 8X 40 PLATED	1	1	1					
10	1	26366-080002	NUT M 8	1	1	1					

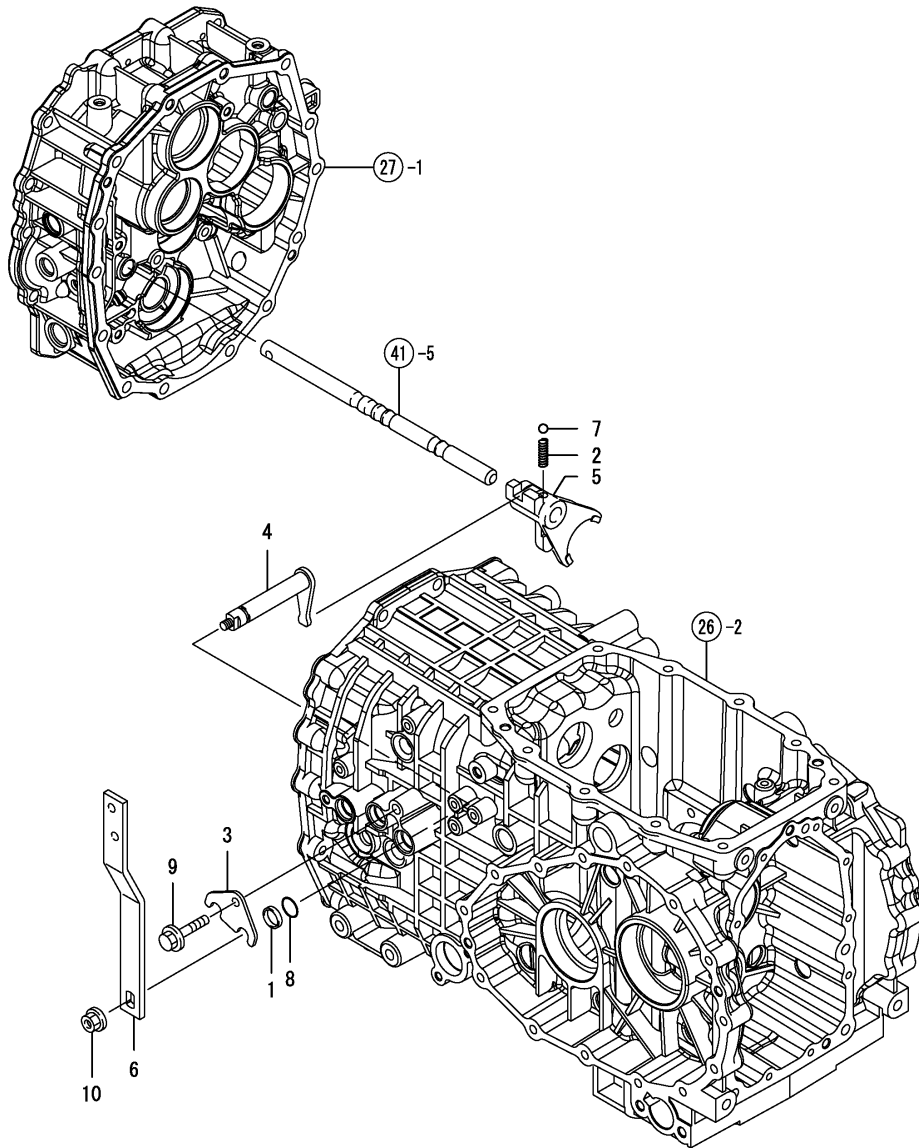


Fig.48. 4WD LEVER

(A)=EF227E
(B)=EF230E
(C)=EF233E

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

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198282-28460	LEVER, 4WD SHIFT	1	1	1					
2	1	26106-080202	BOLT M 8X 20 PLATED	2	2	2					

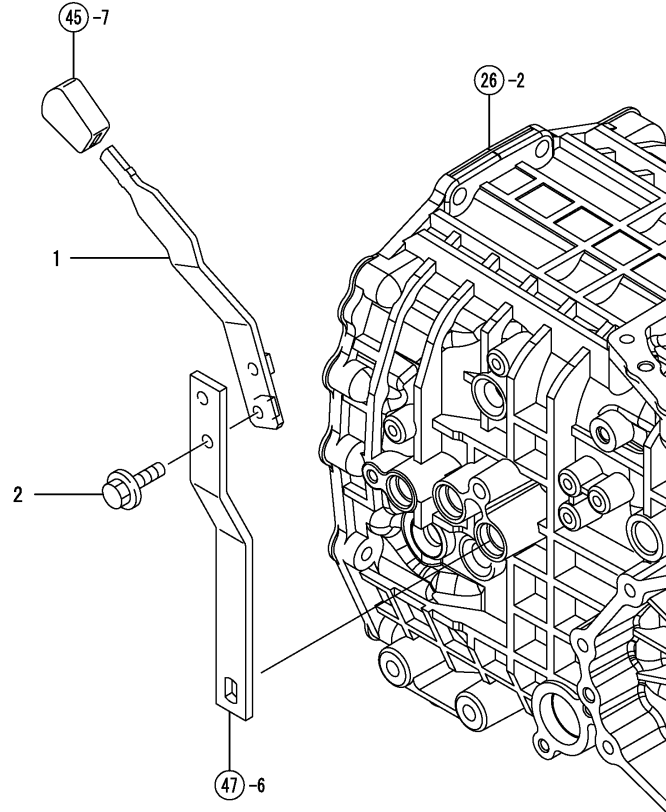
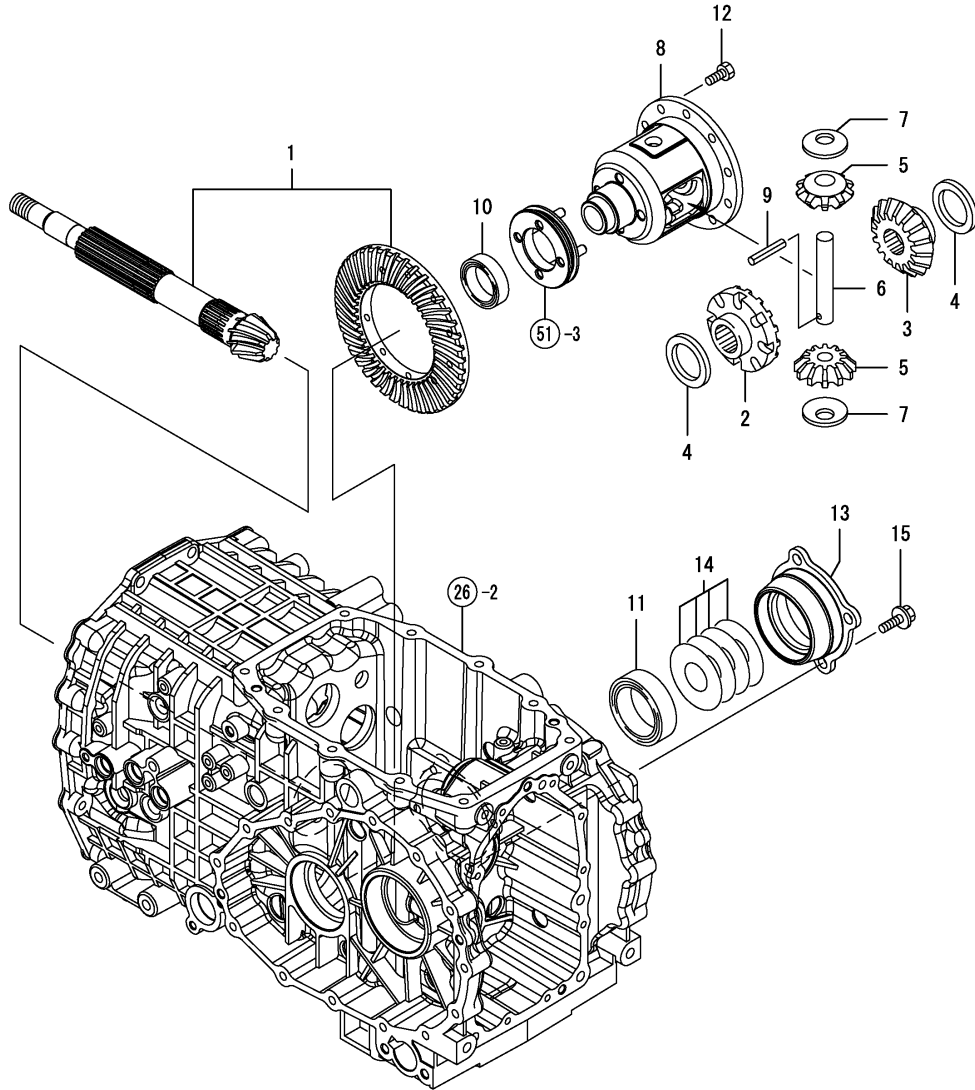


Fig.49. RING GEAR & DIFFERENTIAL GEAR



0CNP4-G43700 49. RING GEAR & DIFFERENTIAL GEAR

(A)=EF227E
(B)=EF230E
(C)=EF233E

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

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198200-31400	GEAR ASSY, RING	1	1	1					
2	1	198200-31510	GEAR, DIFF. SIDE L	1	1	1					
3	1	194525-31520	GEAR R,DIFF.SIDE	1	1	1					
4	1	194515-31610	WASHER, DIFFERENTIAL	2	2	2					
5	1	198200-31810	PINION, DIFF.	2	2	2					
6	1	198200-31820	SHAFT, DIFF. PINION	1	1	1					
7	1	194515-31850	WASHER, DIFFERENTIAL	2	2	2					
8	1	198200-32110	HOUSING, DIFF.	1	1	1					
9	1	22351-040040	SPRING PIN 4X40	1	1	1					
10	1	24101-060074	BALL BEARING	1	1	1					
11	1	24101-062074	BALL BEARING	1	1	1					
12	1	26116-080162	BOLT 8X16	10	10	10					
13	1	198200-32320	CARRIER, DIFF.	1	1	1					
14	1	194850-32340	SHIM SET	1	1	1					
15	1	26106-100252	BOLT M10X 25 PLATED	4	4	4					

Fig.50. REAR HOUSING

(A)=EF227E
(B)=EF230E
(C)=EF233E

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

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198200-32600	HOUSING ASSY, AXLE	2	2	2					
2	2	198290-32750	SEAL TC253506,OIL	2	2	2					
3	1	198200-32630	GASKET, REAR AXLE	2	2	2					
4	1	198200-32660	GASKET, SEAL HOUSING	2	2	2					
5	1	198475-32660	SEAL QLNY527514.5	2	2	2					
6	1	198200-32731	HOUSING, SEAL	2	2	2					
7	1	22312-080140	PIN 8X14,STRAIGHT	4	4	4					
8	1	26106-080402	BOLT M 8X 40 PLATED	8	8	8					
9	1	26106-100502	BOLT M10X 50 PLATED	28	28	28					

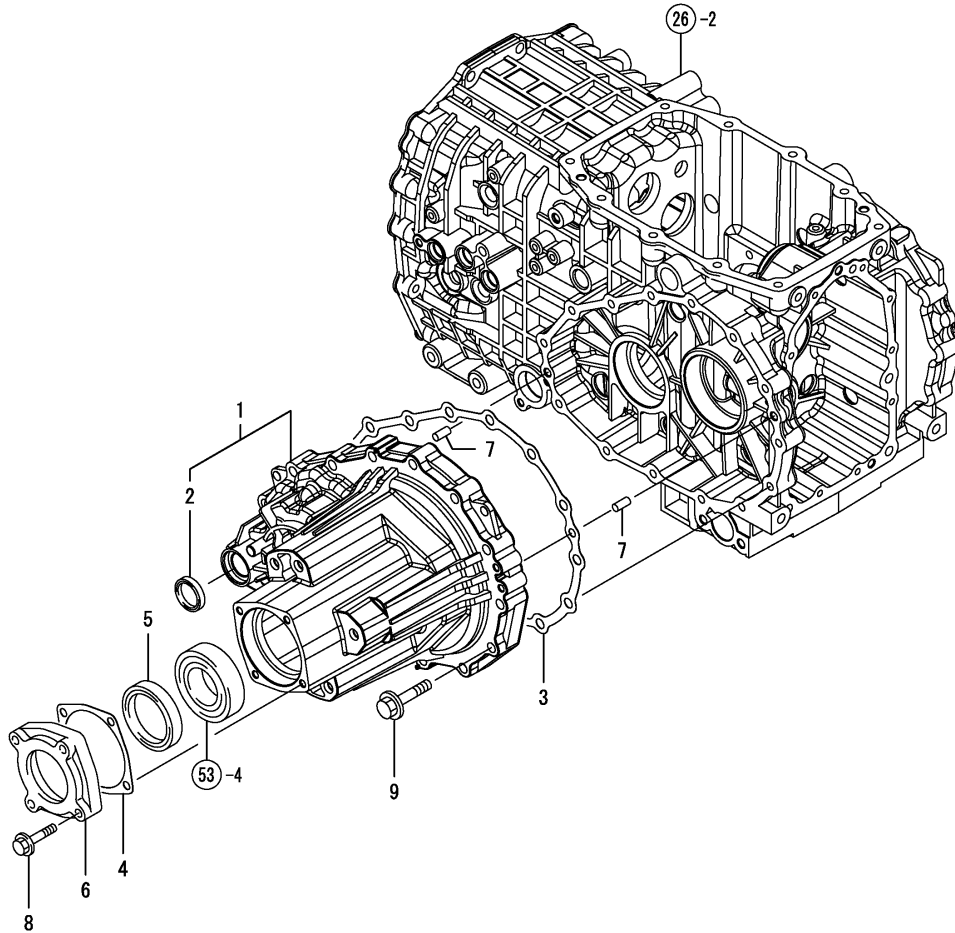
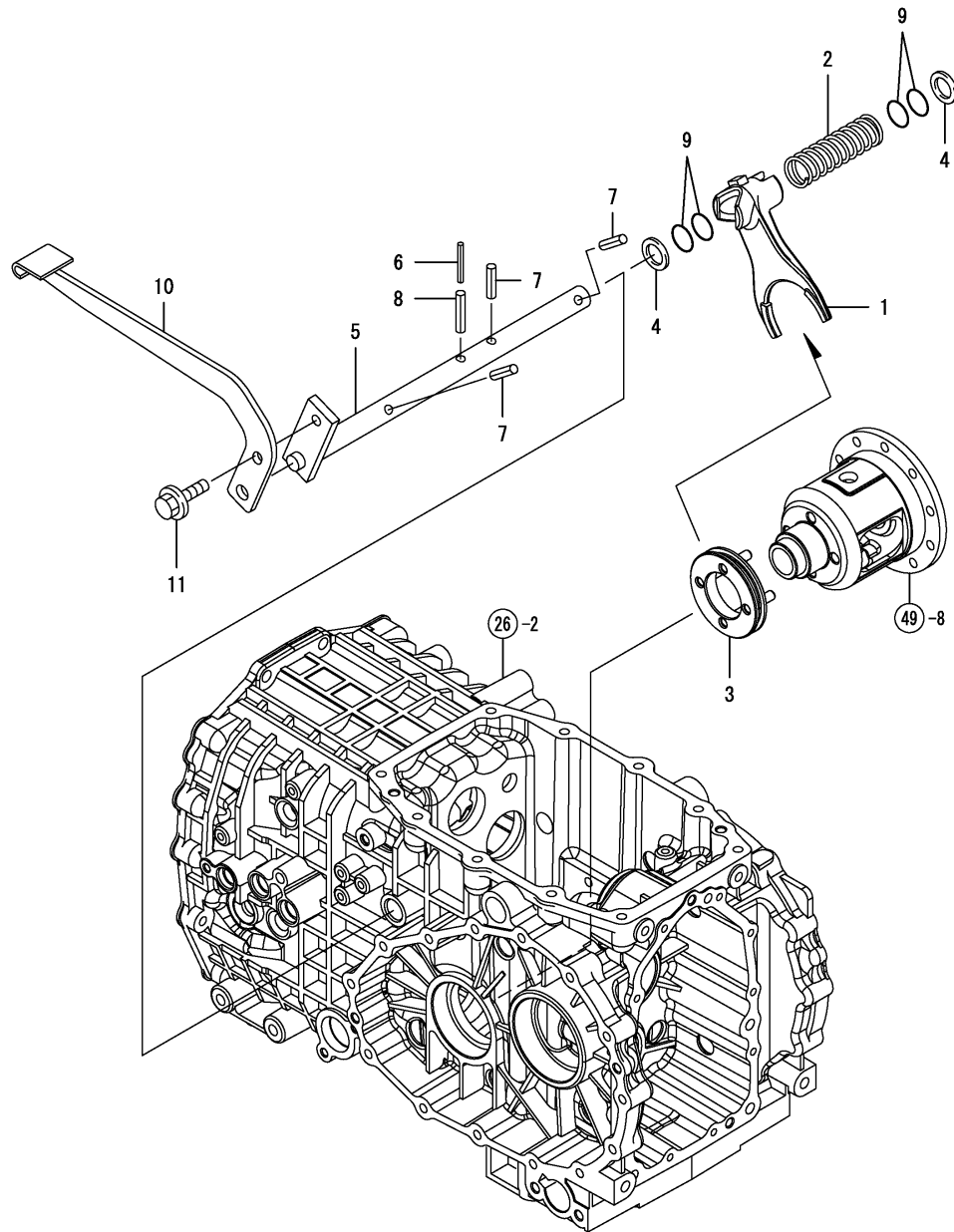


Fig.51. DIFFERENTIAL LOCK



OCNP4-G43700 51. DIFFERENTIAL LOCK

(A)=EF227E

(B)=EF230E

(C)=EF233E

(D)=

(E)=

(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198200-33111	FORK, DIFF. LOCK	1	1	1					
2	1	194420-33150	SPRING, RETURN	1	1	1					
3	1	198200-33150	SLIDER, DIFF. LOCK	1	1	1					
4	1	194300-33200	SPACER 20X32X3.2	2	2	2					
5	1	198280-33210	SHAFT ASSY, LOCK	1	1	1					
6	1	22351-050040	SPRING PIN 5X40	1	1	1					
7	1	22351-080032	SPRING PIN 8X32	3	3	3					
8	1	22351-080040	SPRING PIN 8X40	1	1	1					
9	1	24311-000200	O-RING 1A P-20.0	4	4	4					
10	1	198200-33250	PEDAL, DIFF. LOCK	1	1	1					
11	1	26106-100202	BOLT M10X 20 PLATED	1	1	1					

Fig.52. FINAL PINION & FINAL GEAR

0CNP4-G43700 52. FINAL PINION & FINAL GEAR

(A)=EF227E
 (B)=EF230E
 (C)=EF233E

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

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198200-33410	PINION, FINAL L.H.	1	1	1					
2	1	198200-33420	PINION, FINAL R.H.	1	1	1					
3	1	24101-063064	BALL BEARING	4	4	4					
4	1	198200-33511	GEAR, FINAL	2	2	2					

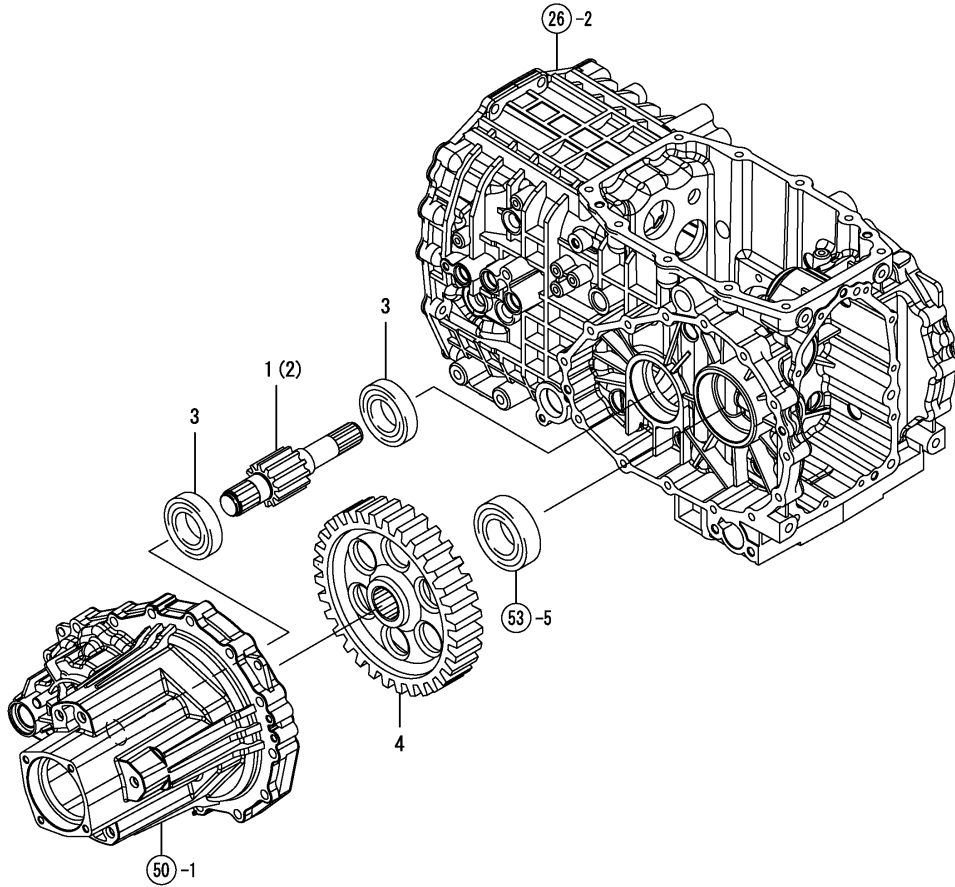


Fig.53. REAR AXLE SHAFT

(A)=EF227E
 (B)=EF230E
 (C)=EF233E

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

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194440-32580	COLLAR 45X55X20	2	2	2					
2	1	198206-34112	SHAFT, REAR AXLE	2	2	2					
3	1	198196-34140	STOP RING	4	4	4					
4	1	24101-062094	BALL BEARING	2	2	2					
5	1	24101-063074	BEARING	2	2	2					

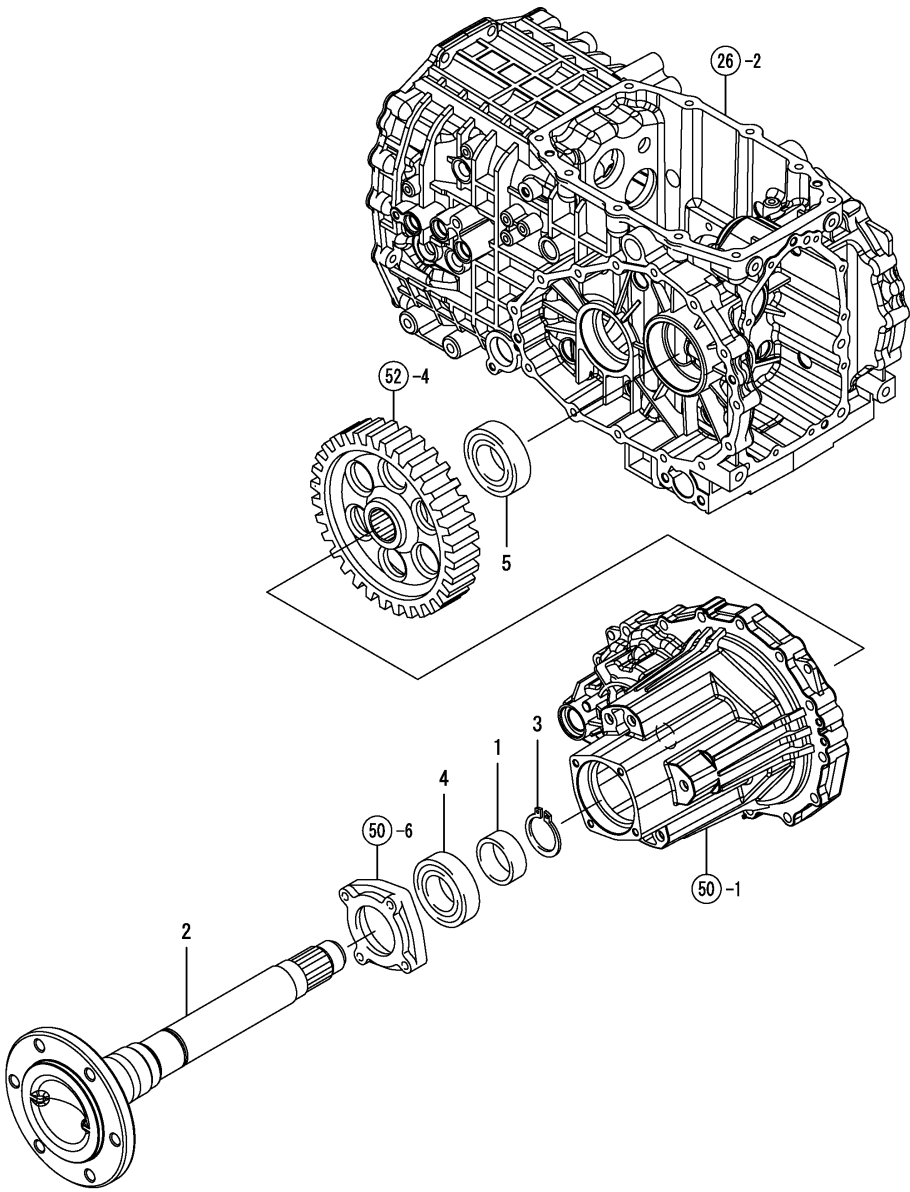


Fig.54. REAR WHEEL TIRE

(A)=EF227E
(B)=EF230E
(C)=EF233E

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

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198282-34700	TIRE, W/WHEEL UNIT L	1	1	1					
2	2	198206-34650	WHEEL, W7-24	1	1	1					
3	2	194433-34910	TIRE 9.5X 24	1	1	1					
4	2	194433-34920	TUBE	1	1	1					
5	2	194190-34730	HOUSING,CORE	1	1	1					
6	1	198282-34800	TIRE, W/WHEEL UNIT R	1	1	1					
7	2	198206-34650	WHEEL, W7-24	1	1	1					
8	2	194433-34910	TIRE 9.5X 24	1	1	1					
9	2	194433-34920	TUBE	1	1	1					
10	2	194190-34730	HOUSING,CORE	1	1	1					
11	1	194881-12650	BOLT M14X 24	8	8	8					
12	1	194279-14220	WASHER 14	4	4	4					
13	1	198200-34130	STUD BOLT, M14X28	4	4	4					
14	1	198200-34190	NUT 14	4	4	4					

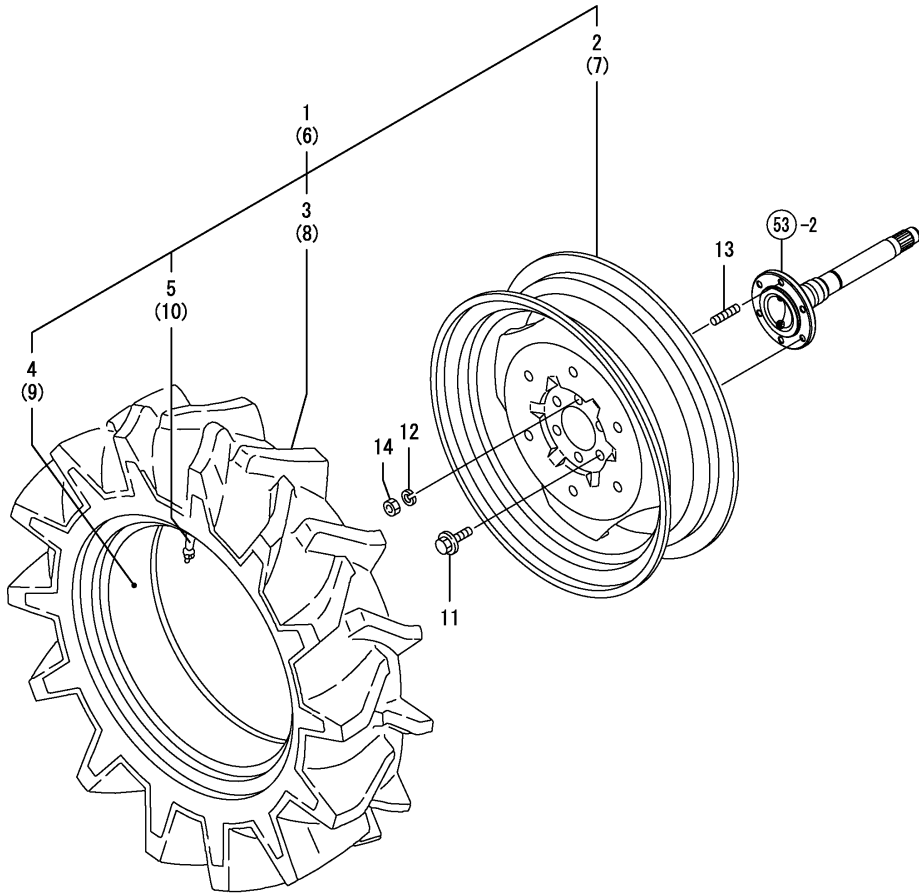
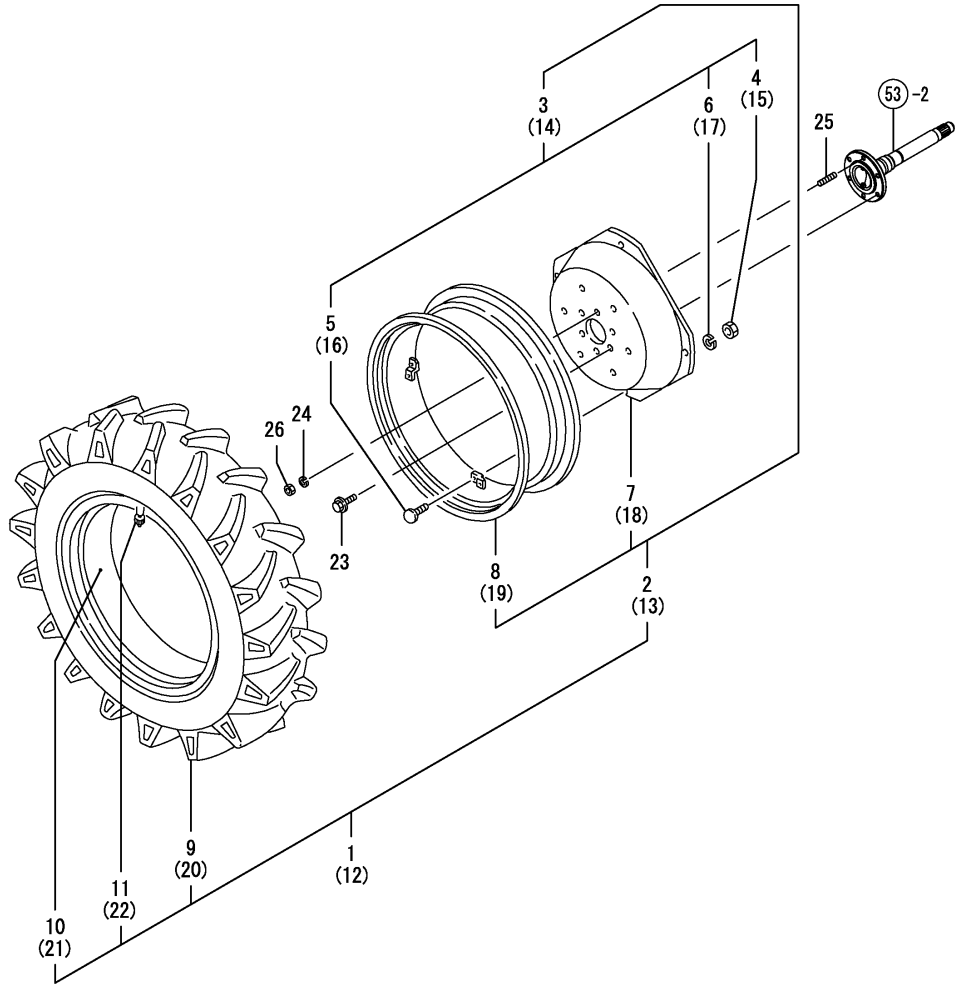


Fig.55. REAR WHEEL TIRE



OCNP4-G43700 55. REAR WHEEL TIRE

(A)=EF227E
(B)=EF230E
(C)=EF233E

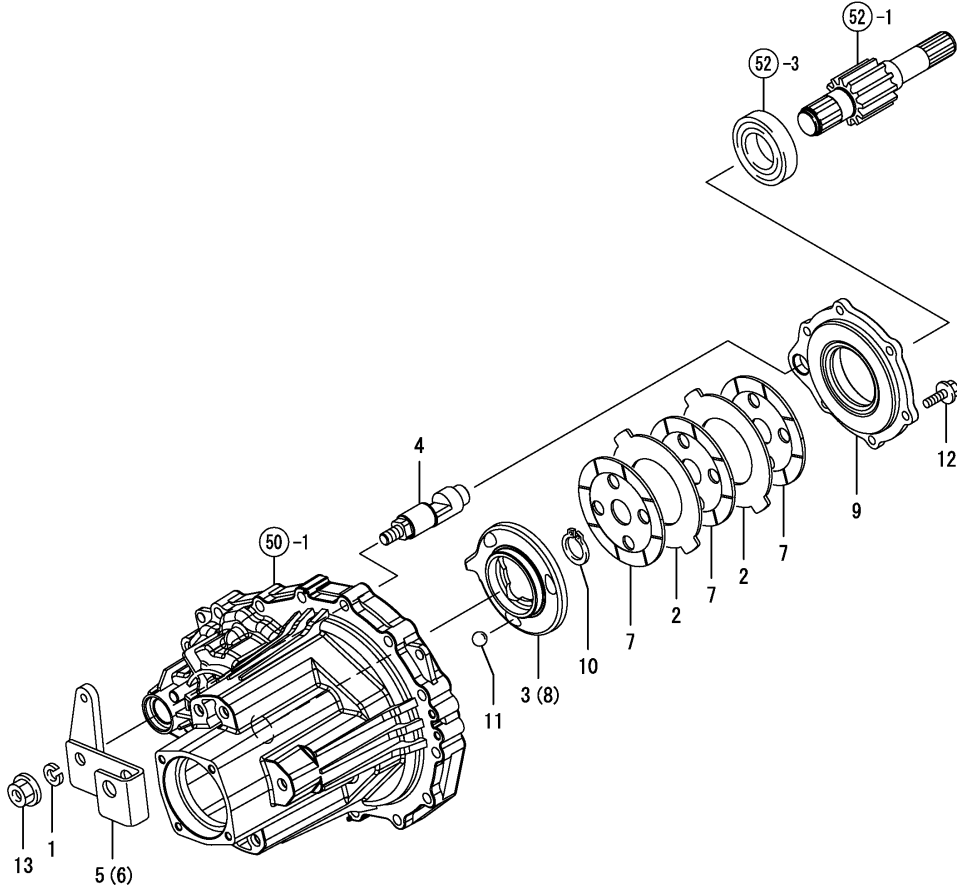
(D)=
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198287-34700	TIRE, W/WHEEL UNIT L	1	1	1					
2	2	198287-34650	WHEEL ASSY, DCW9X34W	1	1	1					
3	3	198255-34100	BOLT KIT (M16X 35)	1	1	1					
4	4	194181-14180	NUT M16	4	4	4					
5	4	194681-14790	BOLT 16X35	4	4	4					
6	4	194065-34170	WASHER 16, LOCK	4	4	4					
7	3	198287-34810	WHELL	1	1	1					
8	3	194130-34891	RIM W9X24	1	1	1					
9	2	194432-34910	TIRE	1	1	1					
10	2	194432-34920	TUBE	1	1	1					
11	2	194190-34730	HOUSING,CORE	1	1	1					
12	1	198287-34800	TIRE, W/WHEEL UNIT R	1	1	1					
13	2	198287-34650	WHEEL ASSY, DCW9X34W	1	1	1					
14	3	198255-34100	BOLT KIT (M16X 35)	1	1	1					
15	4	194181-14180	NUT M16	4	4	4					
16	4	194681-14790	BOLT 16X35	4	4	4					
17	4	194065-34170	WASHER 16, LOCK	4	4	4					
18	3	198287-34810	WHELL	1	1	1					
19	3	194130-34891	RIM W9X24	1	1	1					
20	2	194432-34910	TIRE	1	1	1					
21	2	194432-34920	TUBE	1	1	1					
22	2	194190-34730	HOUSING,CORE	1	1	1					
23	1	194881-12650	BOLT M14X 24	8	8	8					
24	1	194279-14220	WASHER 14	4	4	4					
25	1	198200-34130	STUD BOLT, M14X28	4	4	4					
26	1	198200-34190	NUT 14	4	4	4					

Fig.56. BRAKE

(A)=EF227E
(B)=EF230E
(C)=EF233E

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

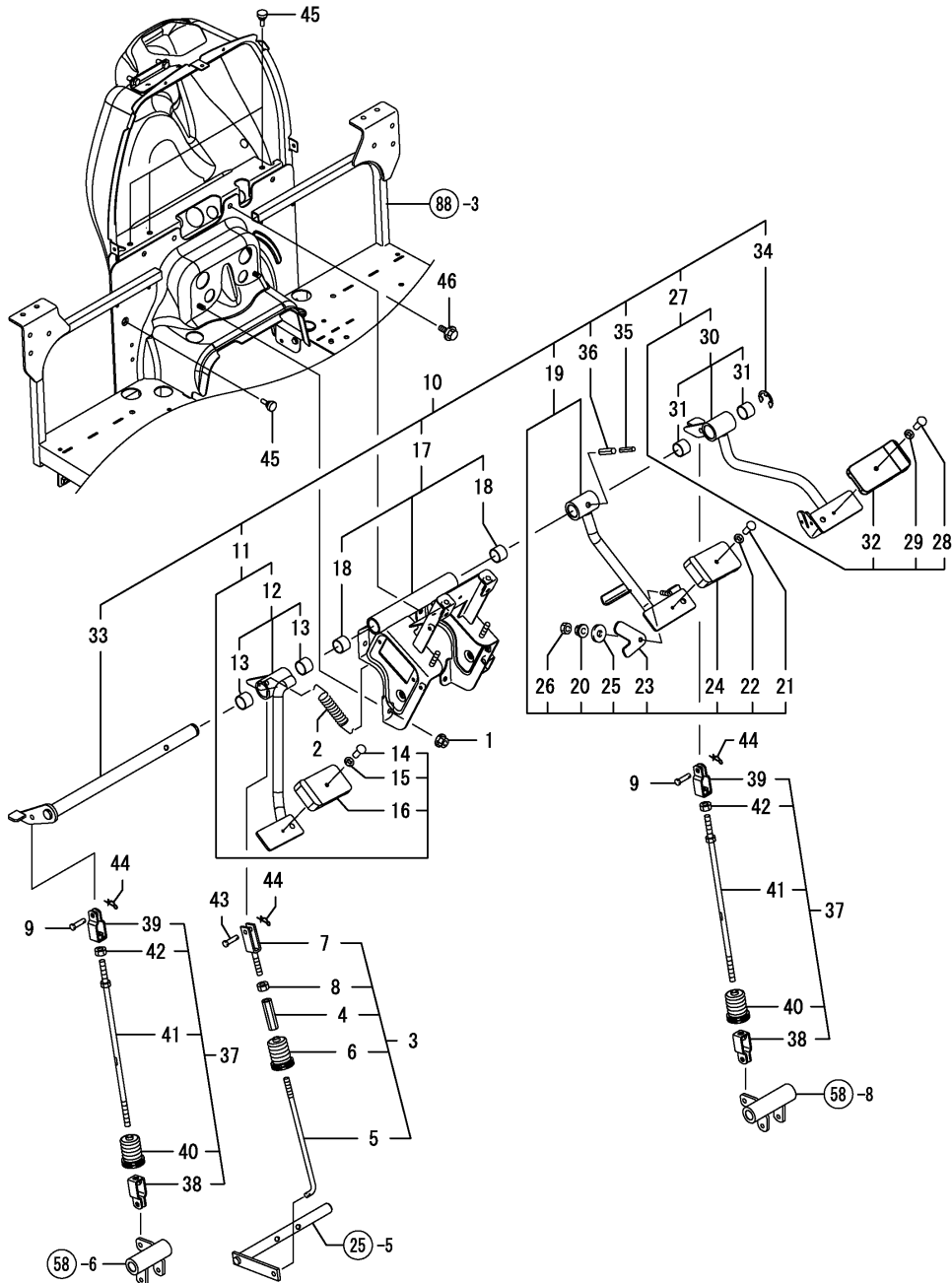


REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194274-13580	SPRING WASHER 12	2	2	2					
2	1	1C6560-15071	PLATE STEEL	4	4	4					
3	1	198200-36310	ACTUATOR, L.H.	1	1	1					
4	1	198200-36340	SHAFT, CAM	2	2	2					
5	1	198280-36350	ARM, BRAKE L	1	1	1					
6	1	198280-36360	ARM, BRAKE R	1	1	1					
7	1	198200-36380	PLATE, FRICTION	6	6	6					
8	1	198200-36410	ACTUATOR, R.H.	1	1	1					
9	1	198200-36421	HOLDER, BEARING	2	2	2					
10	1	22242-000260	CIRCLIP 26	2	2	2					
11	1	24190-170001	BALL 17/32	6	6	6					
12	1	26106-080252	BOLT M 8X 25 PLATED	12	12	12					
13	1	26376-120002	U-NUT M12	2	2	2					

Fig.57. PEDAL

(A)=EF227E
(B)=EF230E
(C)=EF233E

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

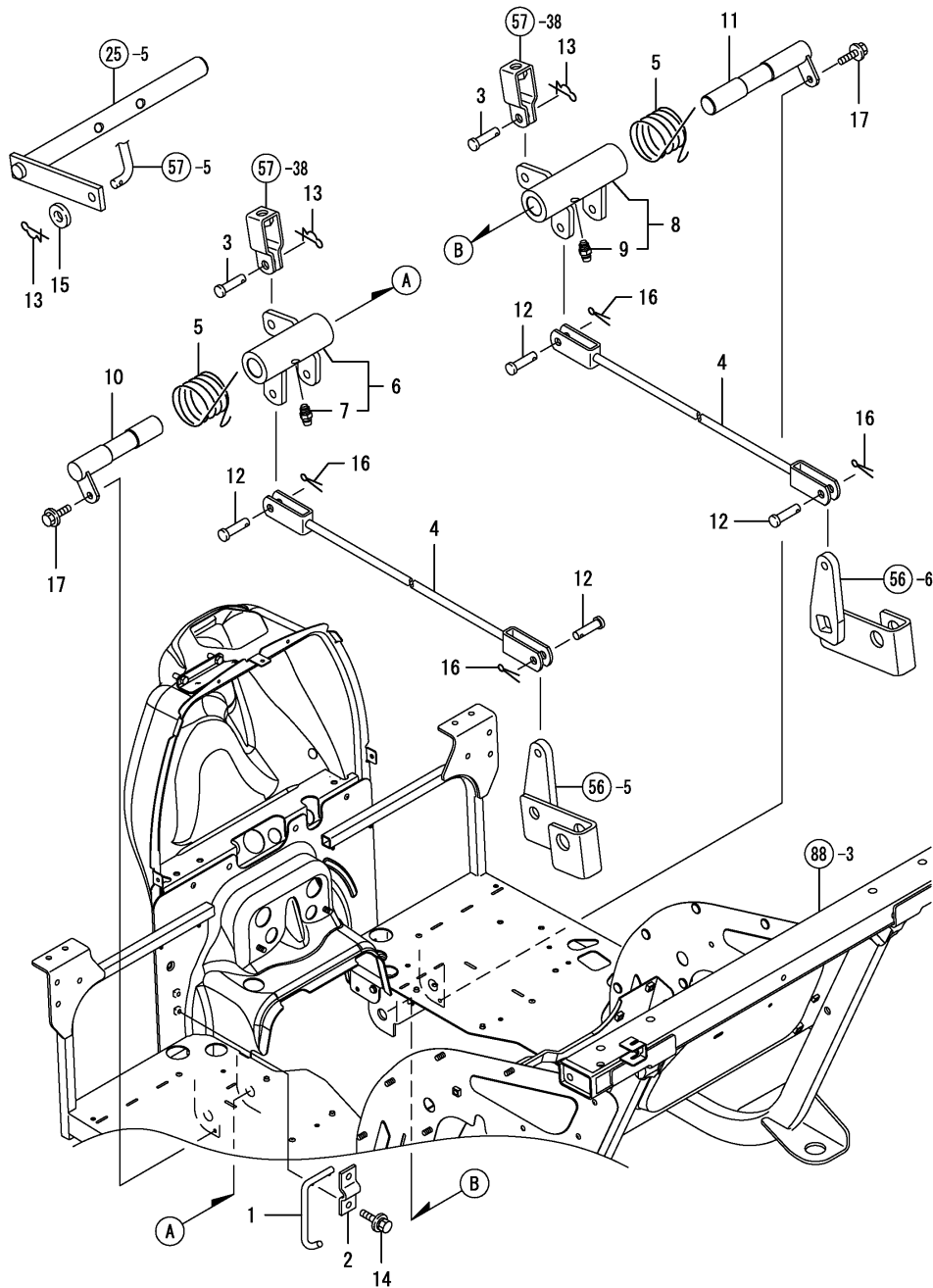


REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194990-22140	NUT W/WASHER 8	2	2	2					
2	1	198200-22510	SPRING, RETURN PEDAL	1	1	1					
3	1	198200-22650	ROD ASSY, CLUTCH	1	1	1					
4	2	194300-22260	TURNBUCKLE M10	1	1	1					
5	2	198200-22690	ROD, CLUTCH	1	1	1					
6	2	198448-37450	BOOTS	1	1	1					
7	2	194130-37750	JOINT (RH SCREW)	1	1	1					
8	2	26716-100002	NUT 10	1	1	1					
9	1	194312-27780	PIN 8.9	2	2	2					
10	1	198282-37200	PEDAL UNIT,	1	1	1					
11	2	198200-22380	PEDAL UNIT, CLUTCH	1	1	1					
12	3	198200-22400	PEDAL ASSY, CLUTCH	1	1	1					
13	4	198448-37360	BUSH 25X28X20	2	2	2					
14	3	198133-22510	RIVET, PEDAL HEAD	1	1	1					
15	3	198133-22530	WASHER, RIVET	1	1	1					
16	3	198071-37510	COVER, PEDAL HEAD	1	1	1					
17	2	198200-37270	BRACKET UNIT, PEDAL	1	1	1					
18	3	198448-37360	BUSH 25X28X20	2	2	2					
19	2	198200-37290	PEDAL UNIT, BRAKE L	1	1	1					
20	3	194990-22140	NUT W/WASHER 8	1	1	1					
21	3	198133-22510	RIVET, PEDAL HEAD	1	1	1					
22	3	198133-22530	WASHER, RIVET	1	1	1					
23	3	198200-37240	CONNECTOR,	1	1	1					
24	3	198071-37510	COVER, PEDAL HEAD	1	1	1					
25	3	22157-080000	WASHER 8	1	1	1					
26	3	26716-080002	NUT M 8	1	1	1					
27	2	198282-37490	PEDAL UNIT, BRAKE R	1	1	1					
28	3	198133-22510	RIVET, PEDAL HEAD	1	1	1					
29	3	198133-22530	WASHER, RIVET	1	1	1					
30	3	198282-37400	PEDAL ASSY, BRAKE R	1	1	1					
31	4	198448-37360	BUSH 25X28X20	2	2	2					
32	3	198071-37510	COVER, PEDAL HEAD	1	1	1					
33	2	198282-37550	SHAFT ASSY, BRAKE	1	1	1					
34	2	22272-000190	CIRCLIP E-19	1	1	1					
35	2	22351-050045	SPRING PIN 5X45	1	1	1					
36	2	22351-080045	SPRING PIN 8X45	1	1	1					
37	1	198200-37610	ROD ASSY, BRAKE F	2	2	2					
38	2	198310-27370	JOINT, L SCREW FORK	2	2	2					
39	2	194312-27770	JOINT	2	2	2					
40	2	198448-37450	BOOTS	2	2	2					
41	2	198200-37660	ROD ASSY, BREAK	2	2	2					
42	2	26716-100002	NUT 10	2	2	2					
43	1	198220-37900	PIN 8X24	1	1	1					
44	1	1C6281-52320	PIN 8, COME-OFF SNAP	3	3	3					
45	1	194330-62530	STOPPER, PEDAL	4	4	4					
46	1	26106-080162	BOLT M 8X 16 PLATED	2	2	2					

Fig.58. BRAKE LINK

(A)=EF227E
(B)=EF230E
(C)=EF233E

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

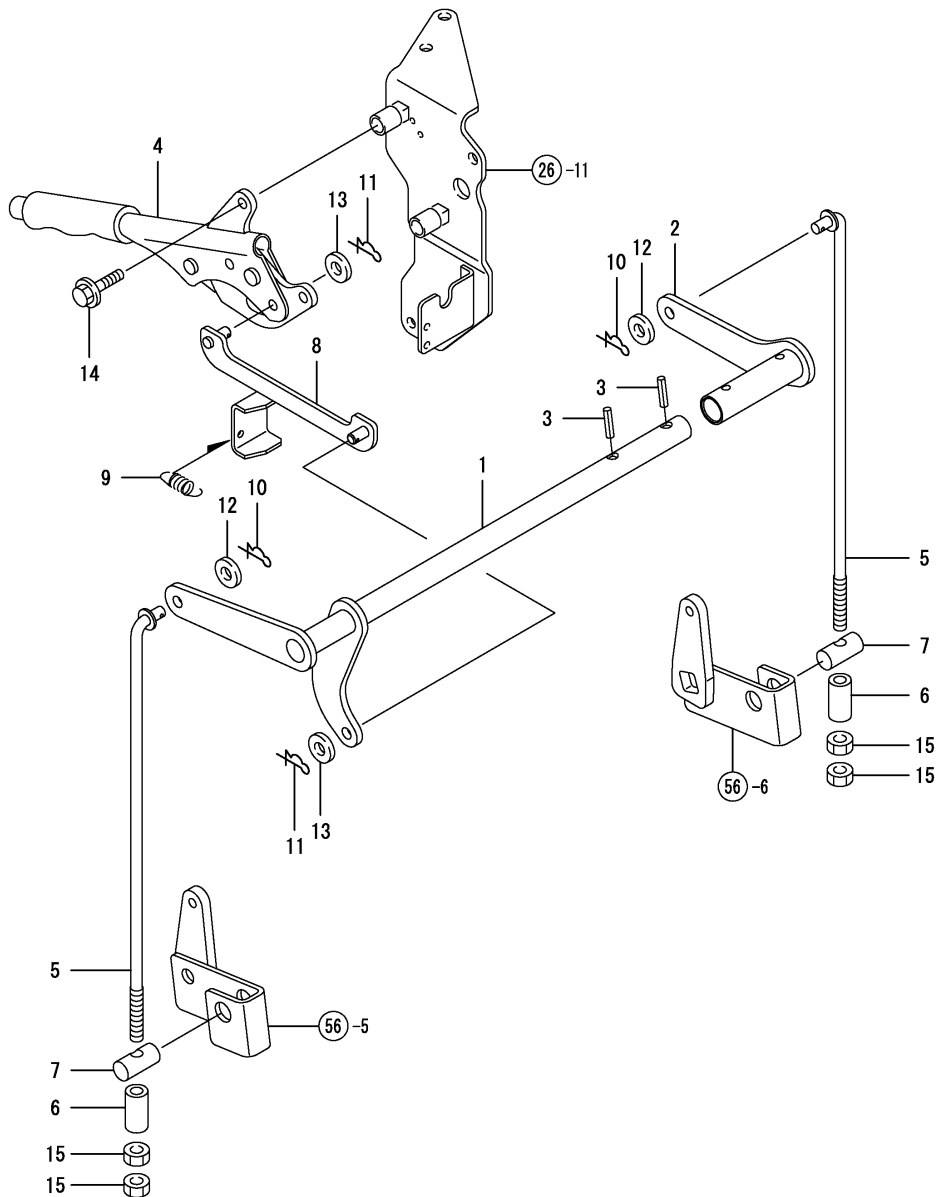


REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198200-22460	LEVER, PEDAL LOCK	1	1	1					
2	1	198200-22470	HINGE, LEVER	1	1	1					
3	1	194312-27780	PIN 8.9	2	2	2					
4	1	198200-37370	ROD ASSY, BRAKE	2	2	2					
5	1	198200-37460	SPRING, BRAKE PEDAL	2	2	2					
6	1	198200-37700	ARM ASSY, BRAKE L	1	1	1					
7	2	24761-010000	NIPPLE M6F, GREASE	1	1	1					
8	1	198200-37710	ARM ASSY, BRAKE R	1	1	1					
9	2	24761-010000	NIPPLE M6F, GREASE	1	1	1					
10	1	198200-37740	SHAFT ASSY, L	1	1	1					
11	1	198200-37840	SHAFT ASSY, R	1	1	1					
12	1	198220-37900	PIN 8X24	4	4	4					
13	1	1C6281-52320	PIN 8,COME-OFF SNAP	3	3	3					
14	1	198093-85650	BOLT M6X16	2	2	2					
15	1	22137-100000	WASHER 10,POLISHED	1	1	1					
16	1	22417-250300	COTTER PIN 2.5X30	4	4	4					
17	1	26106-060122	BOLT M 6X 12 PLATED	2	2	2					

Fig.59. PARKING BRAKE

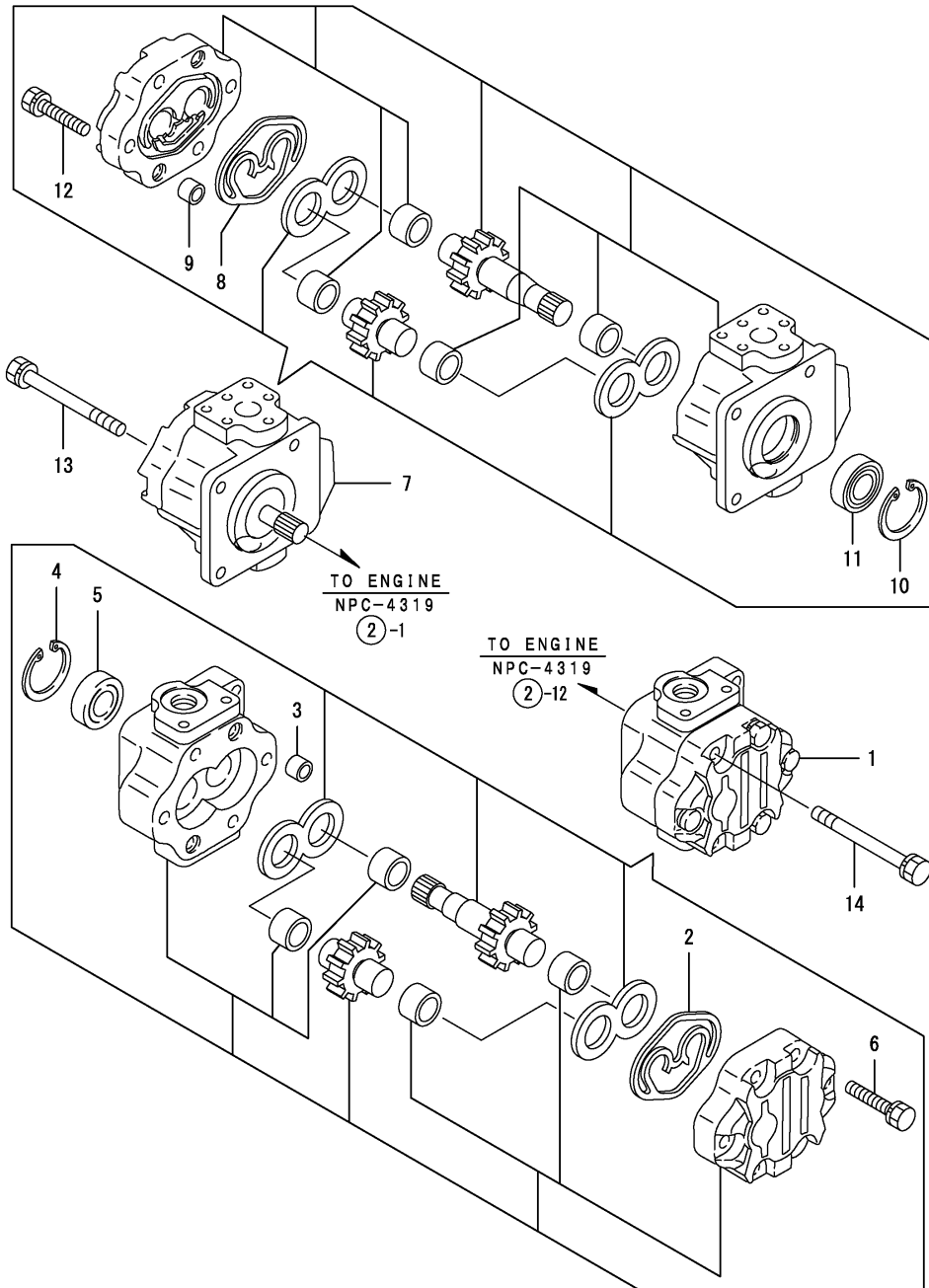
(A)=EF227E
(B)=EF230E
(C)=EF233E

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



REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198280-38510	ARM, PARKING BRAKE	1	1	1					
2	1	198280-38710	ARM, PARKING BRAKE L	1	1	1					
3	1	22351-060032	SPRING PIN 6X32	2	2	2					
4	1	198448-38400	BRAKE, PARKING	1	1	1					
5	1	198280-38810	ROD, PARKING BRAKE A	2	2	2					
6	1	198280-38840	PIPE,10.9X17.3X35	2	2	2					
7	1	198280-38850	PIN, 17X36	2	2	2					
8	1	198280-38910	ROD, PARKING LEVER	1	1	1					
9	1	198280-38950	SPRING,BRAKE	1	1	1					
10	1	1C6360-65700	SNAP PIN 10	2	2	2					
11	1	1C6360-65700	SNAP PIN 10	2	2	2					
12	1	22137-100000	WASHER 10,POLISHED	2	2	2					
13	1	22137-100000	WASHER 10,POLISHED	2	2	2					
14	1	26106-080352	BOLT M 8X 35 PLATED	2	2	2					
15	1	26716-100002	NUT 10	4	4	4					

Fig.60. HYDRAULIC PUMP

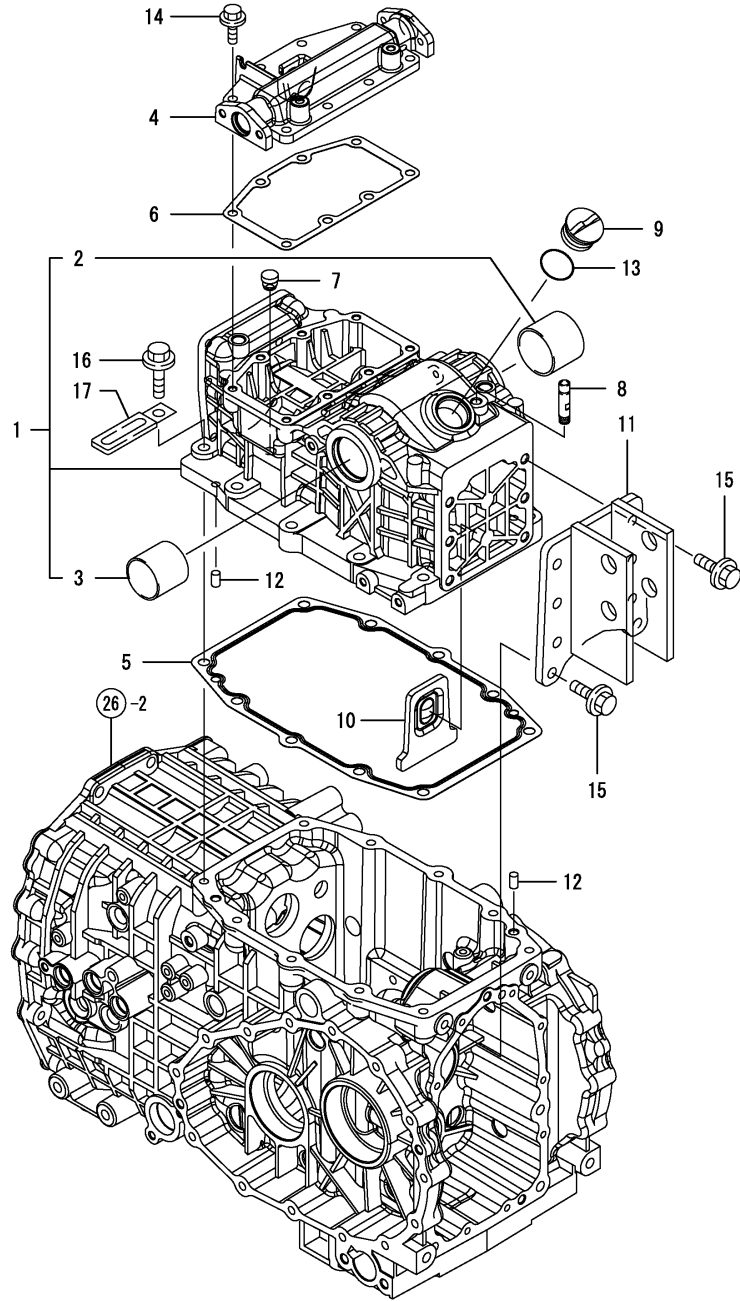


(A)=EF227E
(B)=EF230E
(C)=EF233E

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

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198172-41110	PUMP, HYDRAULIC	1	1	1					
2	2	178070-10401	SQUARE RING	1	1	1					
3	2	194521-41570	PIN 11X7	2	2	2					
4	2	22252-000320	CIRCLIP 32	1	1	1					
5	2	24421-153207	SEAL TC15 32 07, OIL	1	1	1					
6	2	26016-080352	BOLT M 8X 35	4	4	4					
7	1	198280-41150	PUMP ASSY, HYD.OIL	1	1	1					
8	2	178070-10401	SQUARE RING	1	1	1					
9	2	194521-41570	PIN 11X7	2	2	2					
10	2	22252-000320	CIRCLIP 32	1	1	1					
11	2	24421-153207	SEAL TC15 32 07, OIL	1	1	1					
12	2	26016-080352	BOLT M 8X 35	4	4	4					
13	1	26013-080802	BOLT M 8X 80	2	2	2					
14	1	26013-080802	BOLT M 8X 80	2	2	2					

Fig.61. HYDRAULIC CYLINDER CASE



OCNP4-G43700 61. HYDRAULIC CYLINDER CASE

(A)=EF227E

(B)=EF230E

(C)=EF233E

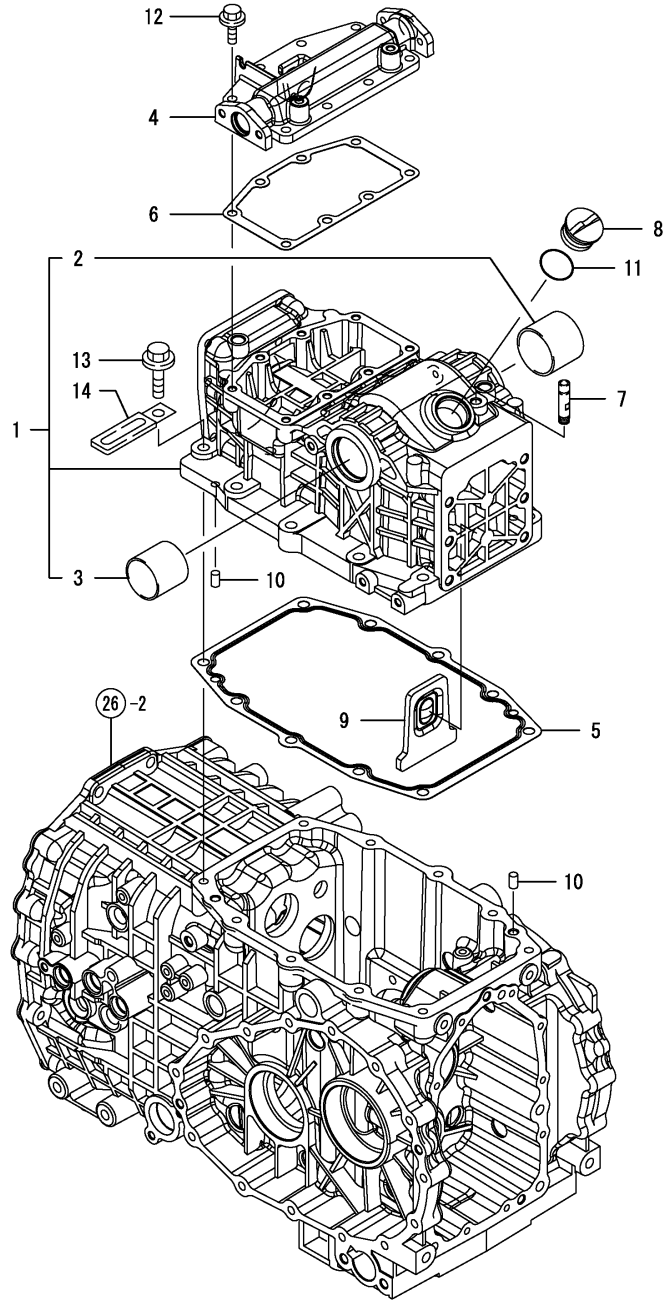
(D)=

(E)=

(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198200-42100	HOUSING ASSY,	1	1	1					
2	2	198200-42130	BUSH, 45X40	1	1	1					
3	2	198200-42140	BUSH, 40X40	1	1	1					
4	1	198200-42150	HOUSING, LINK	1	1	1					
5	1	198200-42180	GASKET, HOUSING	1	1	1					
6	1	198200-42190	GASKET, LINK HOUSING	1	1	1					
7	1	198280-42250	PLUG,CASE	1	1	1					
8	1	194555-42280	BREATHER, AIR	1	1	1					
9	1	194850-42500	CAP, OIL 33	1	1	1					
10	1	198200-42710	PLATE, STOPPER	1	1	1					
11	1	198280-42810	HINGE ASSY, TOP LINK	1	1	1					
12	1	22312-080140	PIN 8X14,STRAIGHT	2	2	2					
13	1	24351-020300	O-RING 1A 2030	1	1	1					
14	1	26106-080252	BOLT M 8X 25 PLATED	8	8	8					
15	1	26106-100252	BOLT M10X 25 PLATED	8	8	8					
16	1	26106-100402	BOLT M10X 40 PLATED	10	10	10					
17	1	194180-51640	CLAMP, WIRE HARNESS	1	1	1					W
(A)=FXXXXXX (B)=FXXXXXX (C)=FXXXXXX)											

Fig.62. HYDRAULIC CYLINDER CASE (DRAFT



(A)=EF227E

(B)=EF230E

(C)=EF233E

(D)=

(E)=

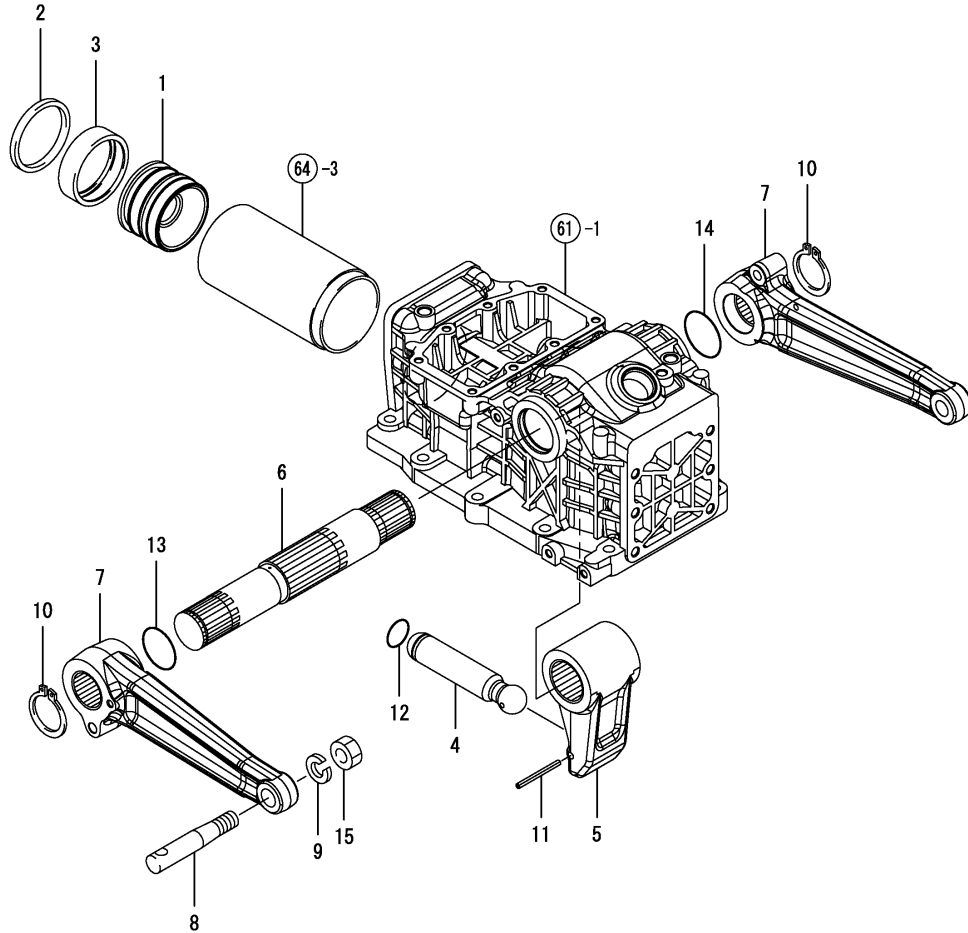
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198200-42100	HOUSING ASSY,	1	1	1					
2	2	198200-42130	BUSH, 45X40	1	1	1					
3	2	198200-42140	BUSH, 40X40	1	1	1					
4	1	198200-42150	HOUSING, LINK	1	1	1					
5	1	198200-42180	GASKET, HOUSING	1	1	1					
6	1	198200-42190	GASKET, LINK HOUSING	1	1	1					
7	1	194555-42280	BREATHER, AIR	1	1	1					
8	1	194850-42500	CAP, OIL 33	1	1	1					
9	1	198200-42710	PLATE, STOPPER	1	1	1					
10	1	22312-080140	PIN 8X14,STRAIGHT	2	2	2					
11	1	24351-020300	O-RING 1A 2030	1	1	1					
12	1	26106-080252	BOLT M 8X 25 PLATED	8	8	8					
13	1	26106-100402	BOLT M10X 40 PLATED	10	10	10					
14	1	194180-51640	CLAMP, WIRE HARNESS	1	1	1					W
(A)=FXXXXXX (B)=FXXXXXX (C)=FXXXXXX)											

Fig.63. PISTON & LIFT CRANK

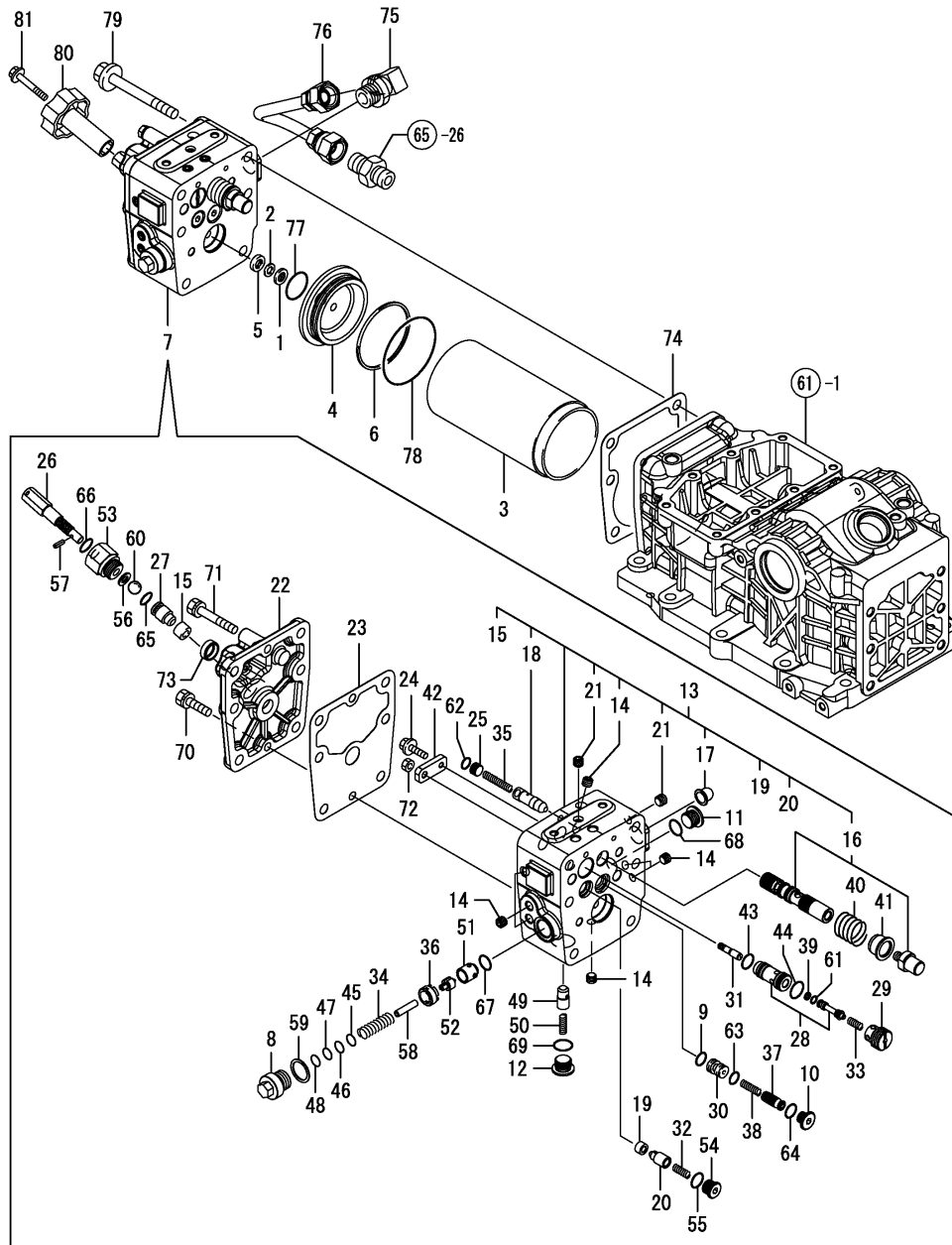
(A)=EF227E
(B)=EF230E
(C)=EF233E

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



REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198200-43310	PISTON, 75	1	1	1					
2	1	198071-43320	U-PACKING 75	1	1	1					
3	1	198071-43330	RING, WEAR	1	1	1					
4	1	198200-43410	ROD, PISTON	1	1	1					
5	1	198200-44110	CRANK, LIFT	1	1	1					
6	1	198200-44210	SHAFT, LIFT	1	1	1					
7	1	198200-44420	ARM, LIFT	2	2	2					
8	1	194130-44480	PIN, LIFT ARM	2	2	2					
9	1	22217-160000	SPRING WASHER 16	2	2	2					
10	1	22242-000400	CIRCLIP 40	2	2	2					
11	1	22351-050056	SPRING PIN 5X56	1	1	1					
12	1	24311-000260	O-RING 1A P-26.0	1	1	1					
13	1	24311-000400	O-RING 1A P-40.0	1	1	1					
14	1	24311-000440	O-RING 1A P-44.0	1	1	1					
15	1	26736-160002	NUT M16	2	2	2					

Fig.64. CONTRPL VALVE

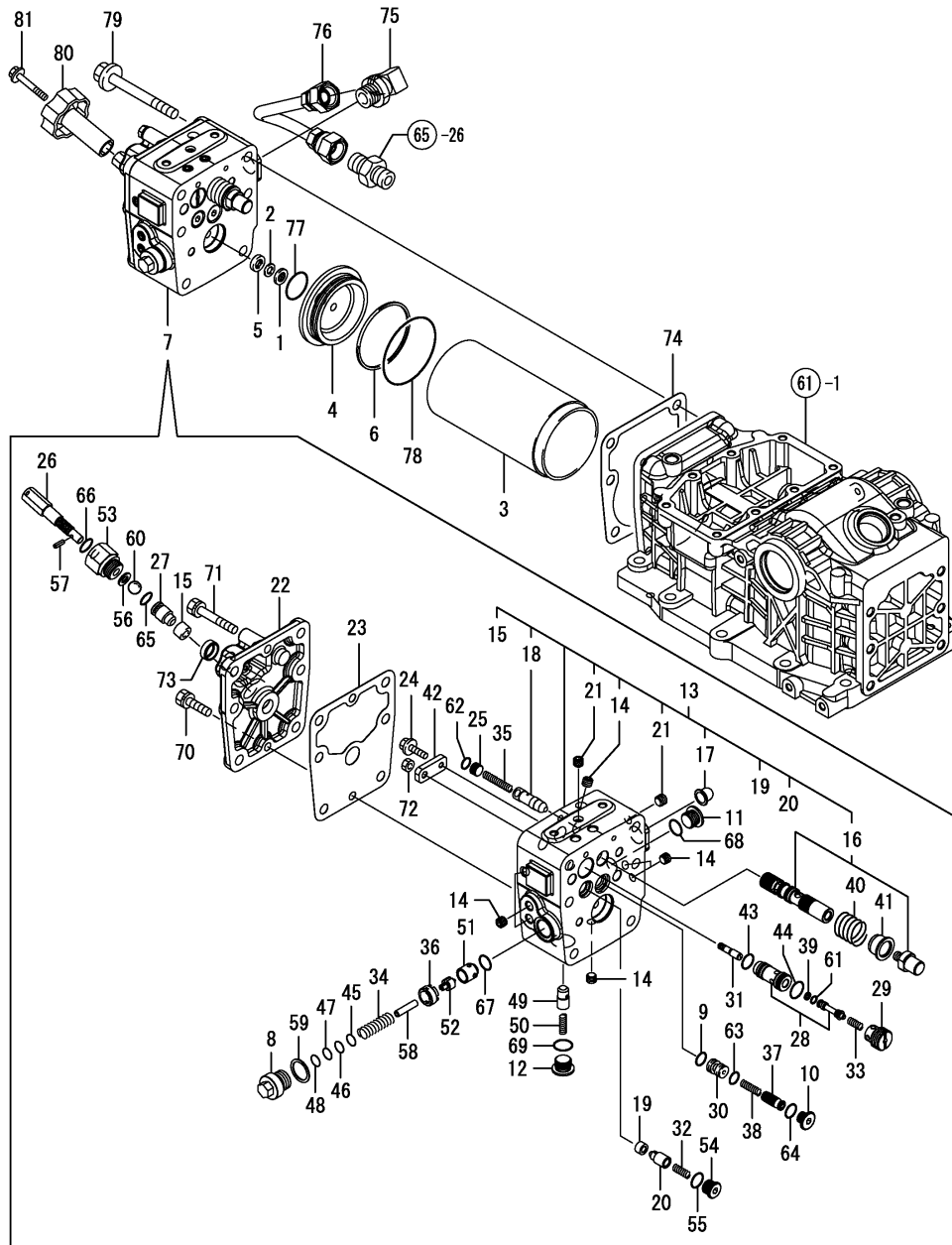


(A)=EF227E
(B)=EF230E
(C)=EF233E

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

REF.	LEV.	PARTS NO.	DESCRIPTION	Q.TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194850-42180	STRAINER	1	1	1					
2	1	194850-42190	SPACER	1	1	1					
3	1	198200-43110	LINER, CYLINDER	1	1	1					
4	1	198200-43211	HEAD, CYLNDER	1	1	1					
5	1	194630-43230	PACKING	1	1	1					
6	1	198200-43250	RING, BACK UP G70	1	1	1					
7	1	198200-45101	VALVE ASSY, LIFT	1	1	1					
8	2	178076-02230	PLUG, RELIEF VALVE	1	1	1					
9	2	178076-04610	PACKING, 1B	1	1	1					
10	2	178076-12400	PLUG, G1/4	1	1	1					
11	2	1A6750-29850	PLUG	1	1	1					
12	2	1A6750-29850	PLUG	1	1	1					
13	2	178076-40011	VALVEBODY CMP	1	1	1					
14	3	178073-01200	PLUG PT 1/8	7	7	7					
15	3	178076-40030	SEAT(STOP	1	1	1					
16	3	178076-40200	SPOOL ASSY, MAIN	1	1	1					
17	3	194556-42220	STRAINER A	1	1	1					
18	3	194170-45310	POPPET	1	1	1					
19	3	198435-45410	SEAT, L CHECK	1	1	1					
20	3	194170-45420	POPPET	1	1	1					
21	3	194555-77120	PLUG	2	2	2					
22	2	178076-40100	COVER,	1	1	1					
23	2	178076-40110	GASKET, COVER	1	1	1					
24	2	178076-40250	BOLT, 6 X 16	1	1	1					
25	2	178076-40300	PLUG, 12	1	1	1					
26	2	178076-40400	BOLT, STOP	1	1	1					
27	2	178076-40410	STOP VALVE	1	1	1					
28	2	178076-40500	VALVE ASSY, CHECK	1	1	1					
29	2	178076-40530	RETAINER, SEAT	1	1	1					
30	2	178076-40600	PLUG,	1	1	1					
31	2	194170-45220	BAR, PUSH	1	1	1					
32	2	1A6640-45230	VALVE, SP FLW.DIVID.	1	1	1					
33	2	194170-45230	SPRING	1	1	1					
34	2	194150-45320	SPRING, RELIEF VALVE	1	1	1					
35	2	194170-45321	SPRING	1	1	1					
36	2	194275-45340	SCREW, VALVE SEAT	1	1	1					
37	2	194170-45350	SPOOL	1	1	1					
38	2	194170-45360	SPRING	1	1	1					
39	2	194170-45430	RING, BACK UP	1	1	1					
40	2	194170-45520	SPRING, SPOOL	1	1	1					
41	2	194170-45530	STOPPER, SPOOL	1	1	1					
42	2	194170-45550	BAR, SPOOL	1	1	1					
43	2	194327-45640	O-RING 1BS14	1	1	1					
44	2	194327-45650	O-RING 1BS16	1	1	1					
45	2	194170-45710	SHIM (T=0.2)	1	1	1					
46	2	194170-45720	SHIM (T=0.3)	1	1	1					
47	2	194170-45730	SHIM (T=0.5)	1	1	1					
48	2	194170-45740	SHIM (T=1.0)	1	1	1					
49	2	194310-46350	POPPET, CHECK	1	1	1					
50	2	194310-46380	SPRING	1	1	1					
51	2	194640-46410	SEAT, SAFETY VALVE	1	1	1					

Fig.64. CONTRPL VALVE



(A)=EF227E

(B)=EF230E

(C)=EF233E

(D)=

(E)=

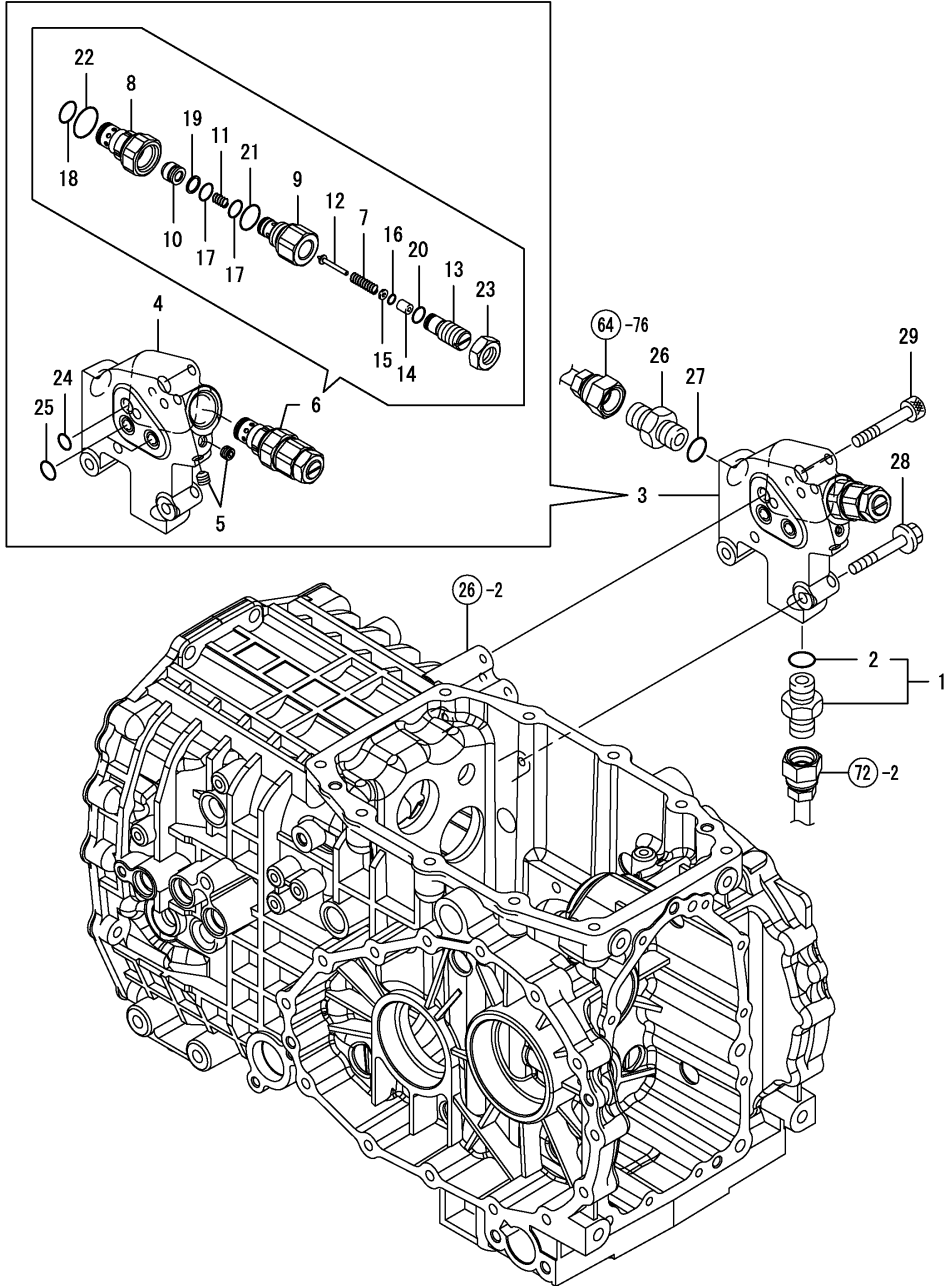
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
52	2	194640-46420	POPPET, SAFETY VALVE	1	1	1					
53	2	194312-46630	HOLDER, VALVE (43)	1	1	1					
54	2	198165-48560	PLUG, 9/16	1	1	1					
55	2	194850-49290	PACKING 6-1	1	1	1					
56	2	22117-080000	WASHER 8	1	1	1					
57	2	22351-040012	SPRING PIN 4X12	1	1	1					
58	2	22351-060028	SPRING PIN 6X28	1	1	1					
59	2	23414-200026	GASKET 20	1	1	1					
60	2	24190-160001	BALL 1/2	1	1	1					
61	2	24311-000050	O-RING 1A P-5.0	1	1	1					
62	2	24315-000090	O-RING 1B P- 9.0	1	1	1					
63	2	24315-000090	O-RING 1B P- 9.0	1	1	1					
64	2	24315-000110	O-RING 1B P-11.0	1	1	1					
65	2	24315-000110	O-RING 1B P-11.0	1	1	1					
66	2	24315-000120	O-RING 1B P-12.0	1	1	1					
67	2	24315-000120	O-RING 1B P-12.0	1	1	1					
68	2	24315-000140	O-RING 1B P-14.0	1	1	1					
69	2	24315-000140	O-RING 1B P-14.0	1	1	1					
70	2	26016-080252	BOLT M 8X 25	1	1	1					
71	2	26016-080502	BOLT M 8X 50	1	1	1					
72	2	26756-060002	LOCK NUT 6	1	1	1					
73	2	27260-200000	PLUG 20,BORE	1	1	1					
74	1	198200-45150	GASKET, LIFT VALVE	1	1	1					
75	1	194765-46980	ELBOW,PF1/2,WSHR,BS	1	1	1					
76	1	198200-48140	LINE ASSY,PRESSURE	1	1	1					
77	1	24325-000250	O-RING 1B G-25.0	1	1	1					
78	1	24325-000700	O-RING 1B G-70.0	1	1	1					
79	1	26106-100902	BOLT M10X 90 PLATED	6	6	6					
80	1	1A7260-46640	KNOB, STOP VALVE	1	1	1					
81	1	1A7260-46650	BOLT, 6 X 40	1	1	1					

Fig.65. RELIEF VALVE

(A)=EF227E
(B)=EF230E
(C)=EF233E

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

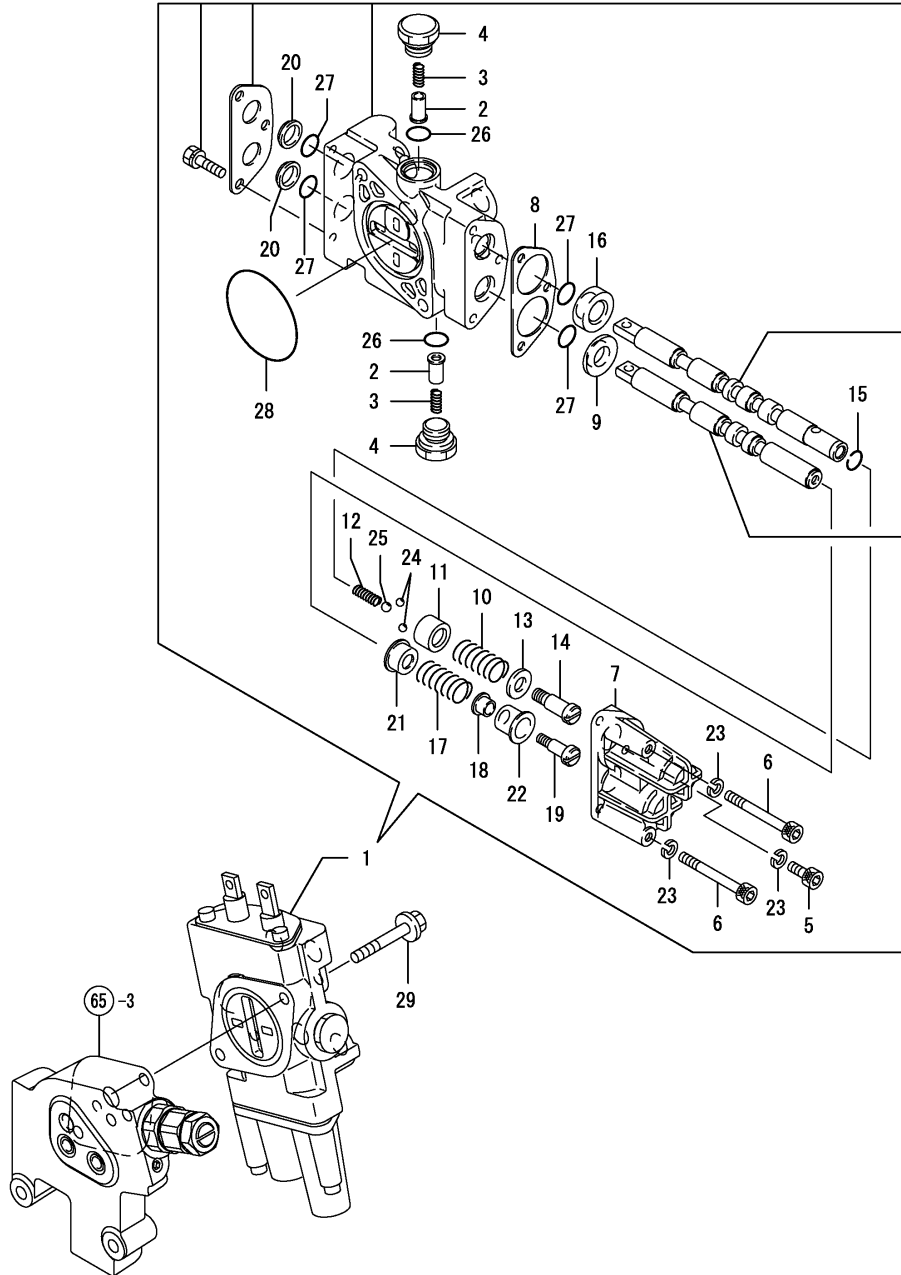


REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198265-48200	ADAPTER ASSY	1	1	1					
2	2	24311-000180	O-RING 1A P-18.0	1	1	1					
3	1	198280-48500	HOUSING ASSY, VALVE	1	1	1					
4	2	1682B4-01020	CASE(RELIEFVALVE	1	1	1					
5	2	178073-01200	PLUG PT 1/8	2	2	2					
6	2	198200-45510	VALVE ASSY, RELIEF	1	1	1					
7	3	178073-04310	SP(PILOT	1	1	1					
8	3	178076-26100	HOLDER, RELIEF	1	1	1					
9	3	178076-26110	HOLDER, RELIEF PILOT	1	1	1					
10	3	178076-26120	VALVE, RELIEF	1	1	1					
11	3	178076-26130	SPRING	1	1	1					
12	3	178076-26140	VALVE, PILOT	1	1	1					
13	3	178076-26160	SCREW, ADJUSTMENT	1	1	1					
14	3	178076-26170	GUIDE, RELIEF VALVE	1	1	1					
15	3	178076-26180	SPACER,	1	1	1					
16	3	178076-26190	PACKING, P 3	1	1	1					
17	3	194327-45630	O-RING 1BS12	2	2	2					
18	3	194327-45650	O-RING 1BS16	1	1	1					
19	3	172510-74530	RING,BACKUP	1	1	1					
20	3	24315-000100	O-RING 1B P-10.0	1	1	1					
21	3	24315-000180	O-RING 1B P-18.0	1	1	1					
22	3	24315-000220	O-RING 1B P-22.0	1	1	1					
23	3	26776-160002	LOCK NUT M16 PLATED	1	1	1					
24	2	24311-000110	O-RING 1A P-11.0	1	1	1					
25	2	24311-000140	O-RING 1A P-14.0	2	2	2					
26	1	172112-77360	CONNECTOR PF1/2PF1/2	1	1	1					
27	1	24311-000180	O-RING 1A P-18.0	1	1	1					
28	1	26106-080452	BOLT M 8X 45 PLATED	2	2	2					
29	1	26450-080402	BOLT 8X40	1	1	1					

Fig.66. SUB VALVE

(A)=EF227E
(B)=EF230E
(C)=EF233E

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

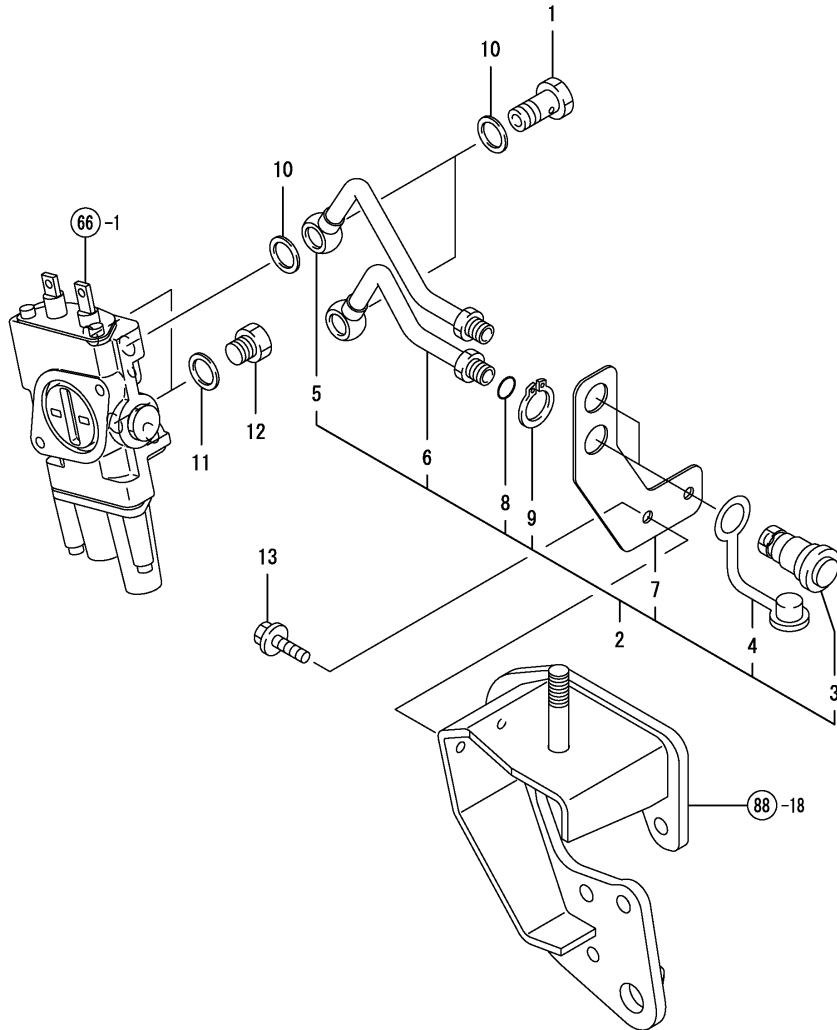


REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198280-46110	SCV ASSY	1	1	1					
2	2	198165-46130	VALVE	2	2	2					
3	2	198165-46140	SPRING	2	2	2					
4	2	198165-46150	PLUG	2	2	2					
5	2	1A6780-46160	BOLT M 6X 25	1	1	1					
6	2	1A6780-46170	BOLT M 6X 55	2	2	2					
7	2	198165-46200	COVER	1	1	1					
8	2	198165-46210	GASKET	1	1	1					
9	2	198165-46220	JOINT	1	1	1					
10	2	198165-46310	SPRING	1	1	1					
11	2	198165-46320	HOLDER	1	1	1					
12	2	198165-46330	SPRING	1	1	1					
13	2	198165-46340	HOLDER	1	1	1					
14	2	198165-46350	BOLT	1	1	1					
15	2	198165-46360	RINK	1	1	1					
16	2	198165-46370	DETENT	1	1	1					
17	2	198165-46410	SPRING	1	1	1					
18	2	198165-46420	STOP	1	1	1					
19	2	198165-46450	BOLT	1	1	1					
20	2	172510-74410	SEAL, DUST	2	2	2					
21	2	172510-74440	RETAINER(A),SPRING	1	1	1					
22	2	172510-74450	RETAINER (B)	1	1	1					
23	2	22287-060000	WASHER 6	3	3	3					
24	2	24190-070001	BALL 7/32	2	2	2					
25	2	24190-080001	BALL 1/4, STEEL	1	1	1					
26	2	24311-000140	O-RING 1A P-14.0	2	2	2					
27	2	24311-000140	O-RING 1A P-14.0	4	4	4					
28	2	24321-000500	O-RING 1A G-50.0	1	1	1					
29	1	26106-080402	BOLT M 8X 40 PLATED	2	2	2					

Fig.67. S.C.V. PIPING

(A)=EF227E
(B)=EF230E
(C)=EF233E

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

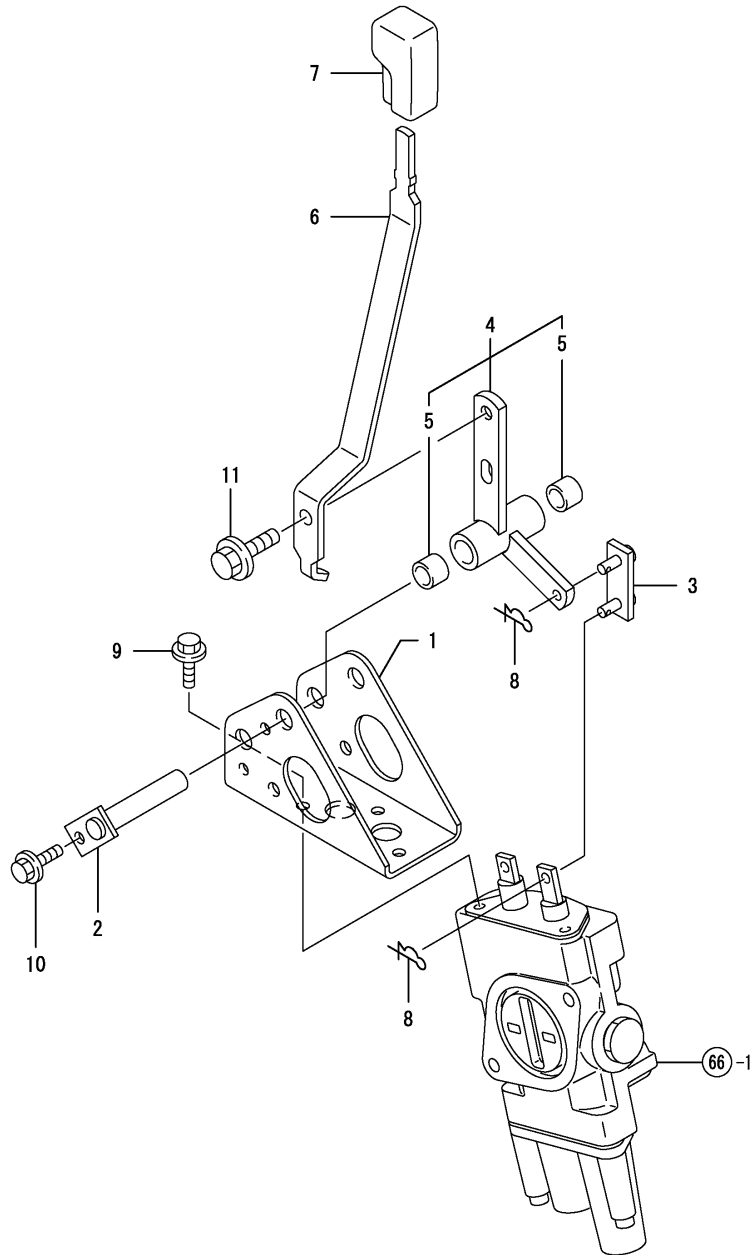


REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194321-17870	BOLT 10, PIPE JOINT	2	2	2					
2	1	198287-46500	PIPE UNIT,SCV	1	1	1					
3	2	198223-46250	HYD.QUICK COUPLER	2	2	2					
4	2	198223-46280	DUST PLUG	2	2	2					
5	2	198287-46510	LINE ASSY,SCV-A1	1	1	1					
6	2	198287-46610	LINE ASSY,SCV-B1	1	1	1					
7	2	198280-46750	STAY	1	1	1					
8	2	194850-49290	PACKING 6-1	2	2	2					
9	2	22242-000220	CIRCLIP 22	2	2	2					
10	1	23414-160021	GASKET 16	4	4	4					
11	1	23414-160021	GASKET 16	2	2	2					
12	1	23887-160002	PLUG 16,HEX.	2	2	2					
13	1	26106-080122	BOLT M 8X 12 PLATED	2	2	2					

Fig.68. S.C.V. CONTROL

(A)=EF227E
(B)=EF230E
(C)=EF233E

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

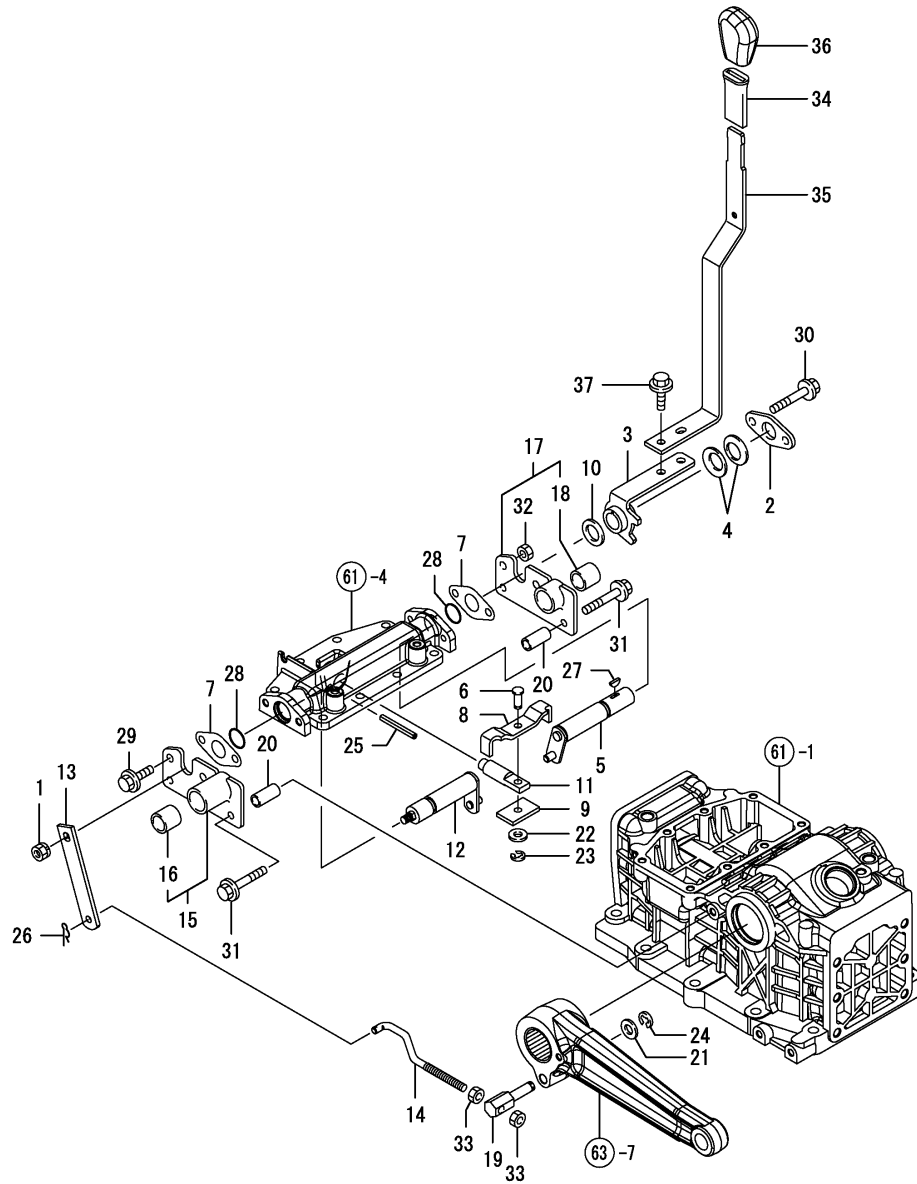


REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198280-46810	BRACKET ASSY,LEVER	1	1	1					
2	1	198280-46870	PIN ASSY,HINGE	1	1	1					
3	1	198133-46890	LINK,SCV LEVER	1	1	1					
4	1	198287-46910	LINK ASSY,LEVER	1	1	1					
5	2	24550-012100	BUSH 12X10	2	2	2					
6	1	198287-46950	LEVER,SCV	1	1	1					
7	1	194940-47341	KNOB,POSITION LEVER	1	1	1					
8	1	1C6281-52310	PIN 6,COME-OFF SNAP	2	2	2					
9	1	26106-060122	BOLT M 6X 12 PLATED	3	3	3					
10	1	26106-060122	BOLT M 6X 12 PLATED	1	1	1					
11	1	26106-080162	BOLT M 8X 16 PLATED	1	1	1					

Fig.69. HYDRAULIC CONTROL

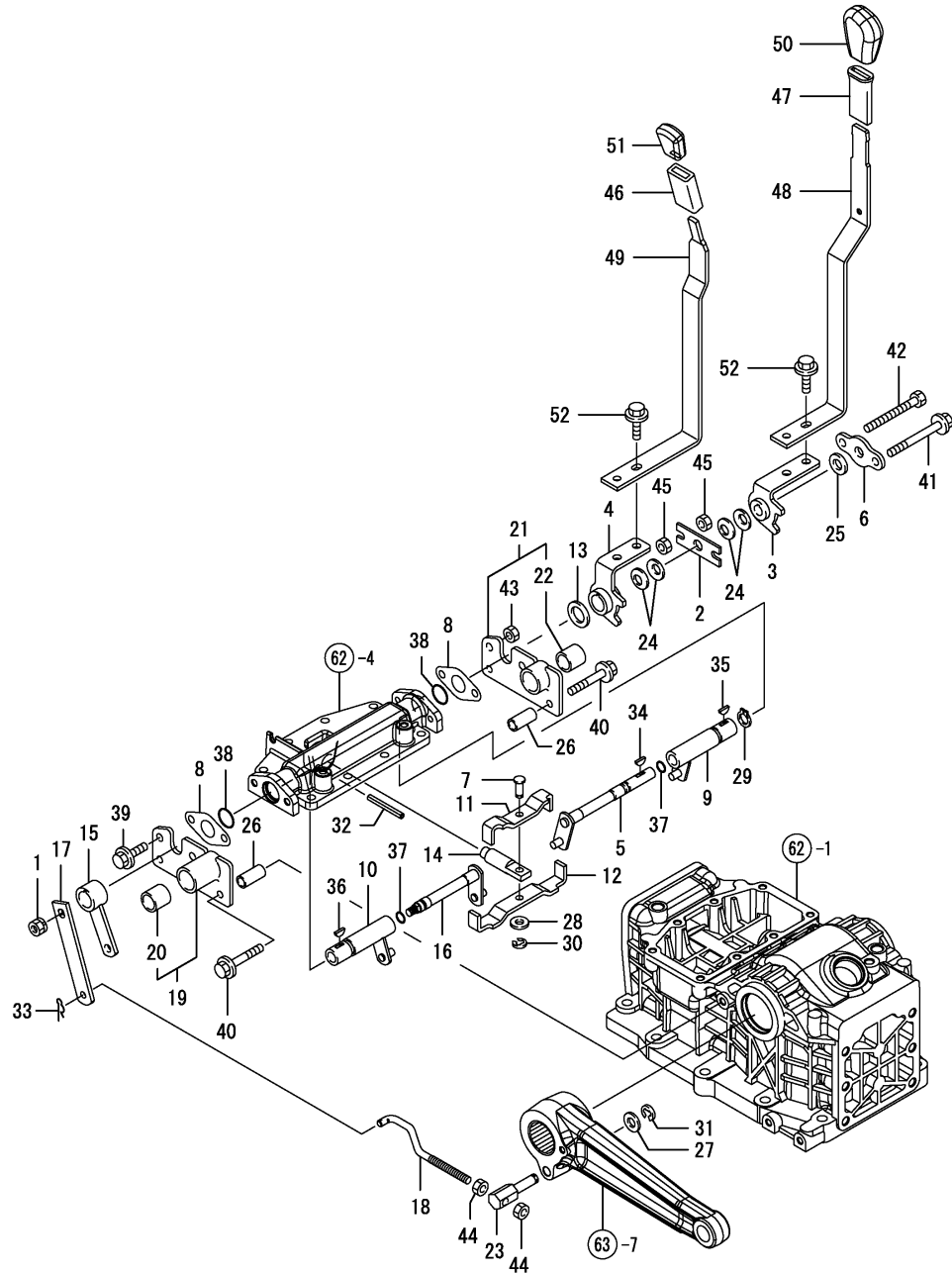
(A)=EF227E
(B)=EF230E
(C)=EF233E

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



REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194990-22050	NUT W/WASHER 8	1	1	1					
2	1	194940-47210	PLATE	1	1	1					
3	1	198280-47210	ARM, P LEVER	1	1	1					
4	1	194940-47220	WASHER 20,SPRING	2	2	2					
5	1	198280-47310	SHAFT, P LEVER	1	1	1					
6	1	198431-47340	PIN,CONTROL	1	1	1					
7	1	194555-47350	PLATE	2	2	2					
8	1	198200-47411	LINK, P CONTROL	1	1	1					
9	1	198280-47430	PLATE	1	1	1					
10	1	194170-47440	PLATE, FRICTION	1	1	1					
11	1	198200-47460	ROD, CONTROL	1	1	1					
12	1	198280-47500	SHAFT, P FEEDBACK	1	1	1					
13	1	198200-47510	ARM, P FEEDBACK	1	1	1					
14	1	198280-47540	ROD, P FEEDBACK	1	1	1					
15	1	198280-47550	STAY ASSY,P BRAKE	1	1	1					
16	2	24550-020200	BUSH 20X20,DRY	1	1	1					
17	1	198280-47580	STAY ASSY,P BRAKE	1	1	1					
18	2	24550-020200	BUSH 20X20,DRY	1	1	1					
19	1	198200-47650	PIN, ADJUSTMENT	1	1	1					
20	1	1C6280-62240	COLLAR 9.2X13.8X30	2	2	2					
21	1	22117-100000	WASHER 10	1	1	1					
22	1	22137-080000	WASHER 8, POLISHED	1	1	1					
23	1	22272-000060	CIRCLIP E- 6	1	1	1					
24	1	22272-000080	CIRCLIP E- 8	1	1	1					
25	1	22351-060050	SPRING PIN 6X50	1	1	1					
26	1	22372-080000	SNAP PIN (JASO 8)	1	1	1					
27	1	22522-030130	WOODRUFF KEY 3X13	1	1	1					
28	1	24311-000200	O-RING 1A P-20.0	2	2	2					
29	1	26106-080162	BOLT M 8X 16 PLATED	2	2	2					
30	1	26106-080502	BOLT M 8X 50 PLATED	2	2	2					
31	1	26106-080502	BOLT M 8X 50 PLATED	2	2	2					
32	1	26716-080002	NUT M 8	2	2	2					
33	1	26716-080002	NUT M 8	2	2	2					
34	1	198072-27880	BOOT,SHAFT	1	1	1					
35	1	198200-47110	LEVER, POSITION	1	1	1					
36	1	198200-47810	KNOB, BLACK	1	1	1					
37	1	26106-080162	BOLT M 8X 16 PLATED	2	2	2					

Fig.70. HYDRAULIC CONTROL (DRAFT)

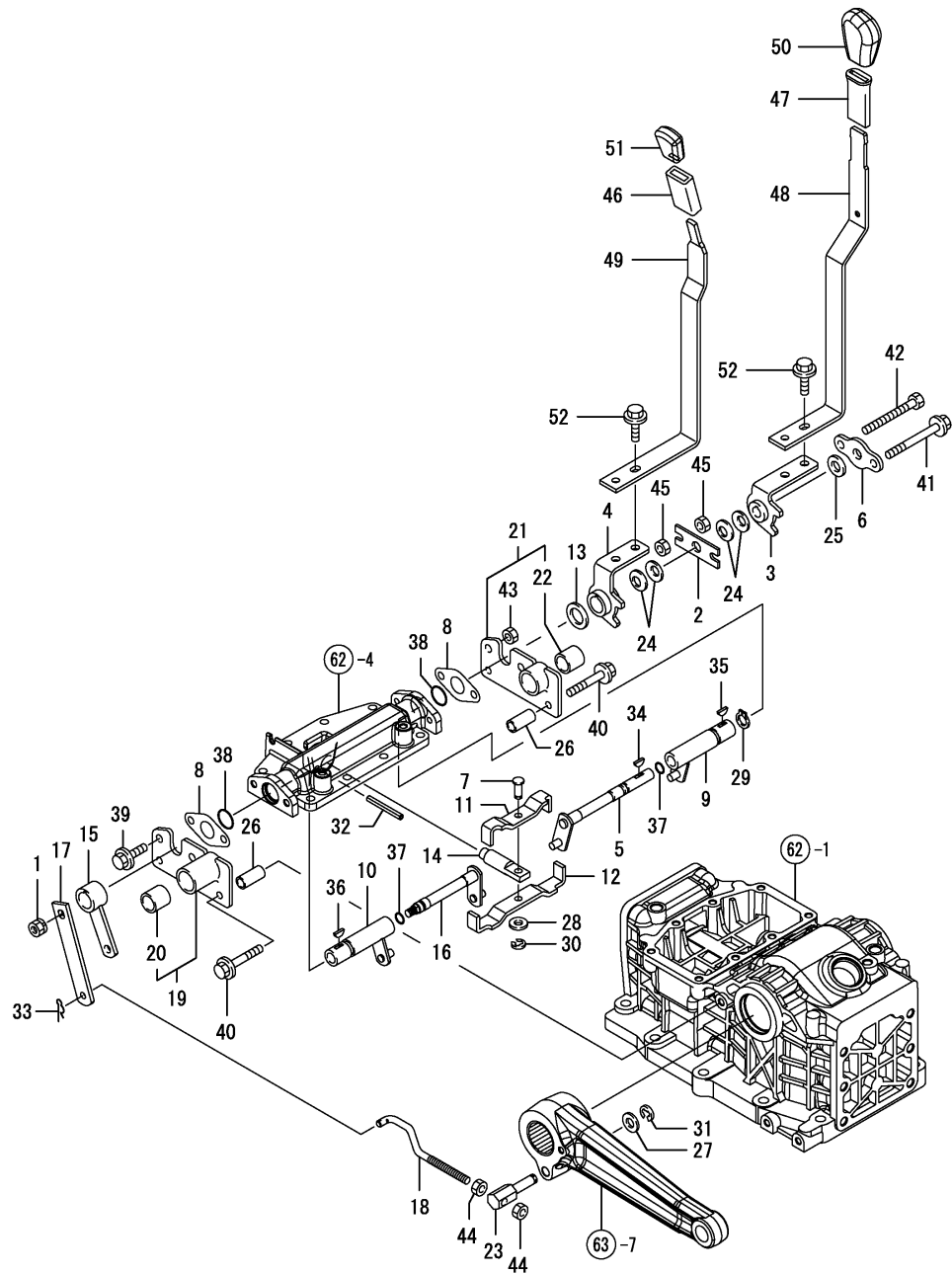


(A)=EF227E
(B)=EF230E
(C)=EF233E

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

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194990-22050	NUT W/WASHER 8	1	1	1					
2	1	198287-47150	PLATE, GUIDE	1	1	1					
3	1	198287-47210	ARM, P LEVER	1	1	1					
4	1	198200-47250	ARM, AUTO LEVER	1	1	1					
5	1	198287-47310	SHAFT, P LEVER	1	1	1					
6	1	194170-47320	PLATE	1	1	1					
7	1	198431-47340	PIN,CONTROL	1	1	1					
8	1	194555-47350	PLATE	2	2	2					
9	1	198287-47360	SHAFT, D LEVER	1	1	1					
10	1	198287-47390	SHAFT, D FEEDBACK	1	1	1					
11	1	198200-47411	LINK, P CONTROL	1	1	1					
12	1	198200-47431	LINK, D CONTROL	1	1	1					
13	1	194170-47440	PLATE, FRICTION	1	1	1					
14	1	198200-47460	ROD, CONTROL	1	1	1					
15	1	198287-47470	ARM,D FEEDBACK	1	1	1					
16	1	198200-47500	SHAFT, P FEEDBACK	1	1	1					
17	1	198200-47510	ARM, P FEEDBACK	1	1	1					
18	1	198280-47540	ROD, P FEEDBACK	1	1	1					
19	1	198280-47550	STAY ASSY,P BRAKE	1	1	1					
20	2	24550-020200	BUSH 20X20,DRY	1	1	1					
21	1	198280-47580	STAY ASSY,P BRAKE	1	1	1					
22	2	24550-020200	BUSH 20X20,DRY	1	1	1					
23	1	198200-47650	PIN, ADJUSTMENT	1	1	1					
24	1	194151-47760	WASHER 12	4	4	4					
25	1	194310-47790	PLATE, FRICTION	1	1	1					
26	1	1C6280-62240	COLLAR 9.2X13.8X30	2	2	2					
27	1	22117-100000	WASHER 10	1	1	1					
28	1	22137-080000	WASHER 8, POLISHED	1	1	1					
29	1	22242-000120	CIRCLIP 12	1	1	1					
30	1	22272-000060	CIRCLIP E- 6	1	1	1					
31	1	22272-000080	CIRCLIP E- 8	1	1	1					
32	1	22351-060050	SPRING PIN 6X50	1	1	1					
33	1	22372-080000	SNAP PIN (JASO 8)	1	1	1					
34	1	22522-030130	WOODRUFF KEY 3X13	1	1	1					
35	1	22522-030130	WOODRUFF KEY 3X13	1	1	1					
36	1	22522-030130	WOODRUFF KEY 3X13	1	1	1					
37	1	24311-000090	O-RING 1A P-9.0	2	2	2					
38	1	24311-000200	O-RING 1A P-20.0	2	2	2					
39	1	26106-080162	BOLT M 8X 16 PLATED	2	2	2					
40	1	26106-080502	BOLT M 8X 50 PLATED	2	2	2					
41	1	26106-080752	BOLT M 8X 75 PLATED	1	1	1					
42	1	26116-080754	BOLT M 8X 75 PLATED	1	1	1					
43	1	26716-080002	NUT M 8	2	2	2					
44	1	26716-080002	NUT M 8	2	2	2					
45	1	26716-080002	NUT M 8	2	2	2					
46	1	174845-27700	BOOT, SHAFT	1	1	1					
47	1	198072-27880	BOOT,SHAFT	1	1	1					
48	1	198200-47110	LEVER, POSITION	1	1	1					
49	1	198200-47120	LEVER, AUTO	1	1	1					
50	1	198200-47810	KNOB, BLACK	1	1	1					
51	1	194273-47910	KNOB	1	1	1					

Fig.70. HYDRAULIC CONTROL (DRAFT)



OCNP4-G43700 70. HYDRAULIC CONTROL (DRAFT)

(A)=EF227E
(B)=EF230E
(C)=EF233E

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

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
52	1	26106-080162	BOLT M 8X 16 PLATED	4	4	4					

Fig.71. DRAFT CONTROL

(A)=EF227E

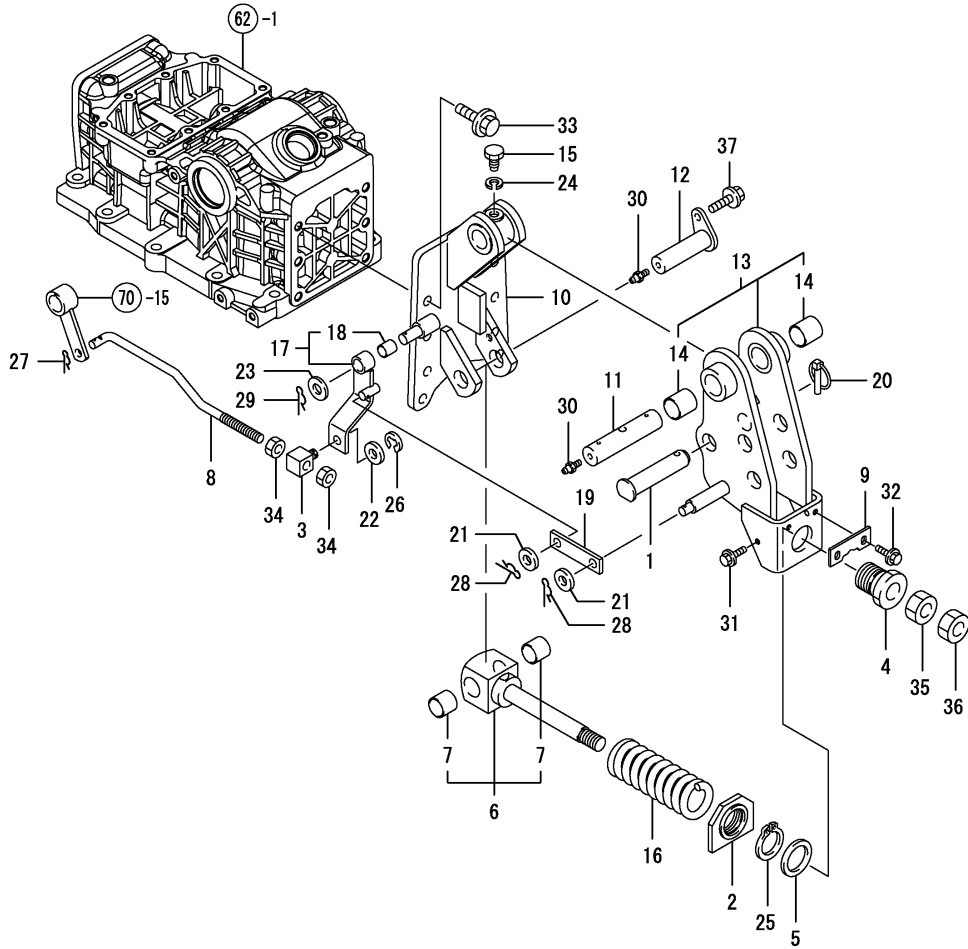
(B)=EF230E

(C)=EF233E

(D)=

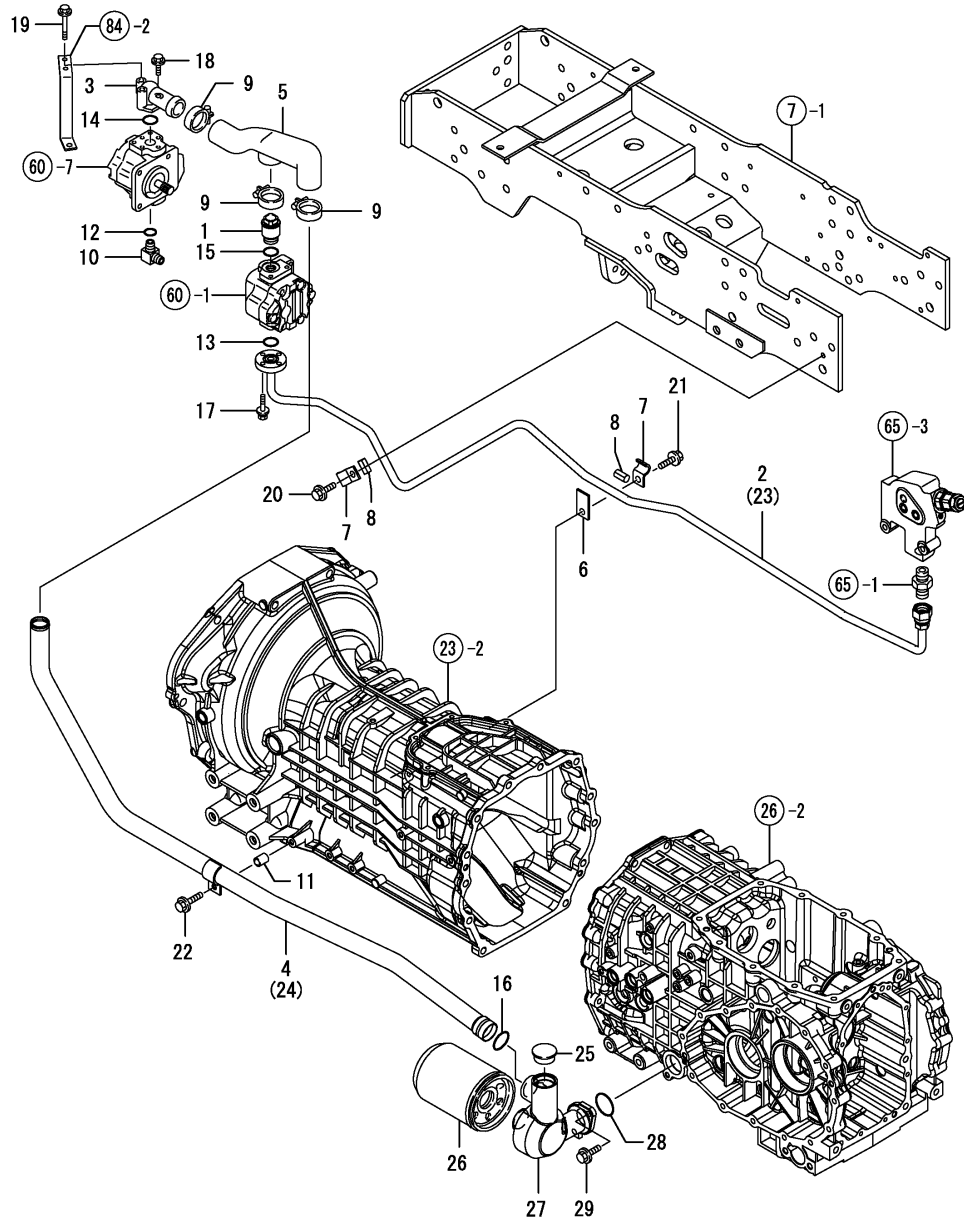
(E)=

(F)=



REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	195385-27810	PIN 19X80	1	1	1					
2	1	198287-47510	HOLDER,SPRING	1	1	1					
3	1	194550-47530	ADJUSTER	1	1	1					
4	1	198287-47550	BOLT,ADJUST	1	1	1					
5	1	198287-47570	SPACER	1	1	1					
6	1	198287-47600	BOLT ASSY, SET	1	1	1					
7	2	194640-47720	BUSH 20X23X20	2	2	2					
8	1	198287-47660	ROD,FEEDBACK	1	1	1					
9	1	198287-47680	PLATE,	1	1	1					
10	1	198287-47720	SUPPORT,HING	1	1	1					
11	1	194320-47760	PIN 22	1	1	1					
12	1	194640-47790	PIN, HINGE	1	1	1					
13	1	198287-47800	HING ASSY,	1	1	1					
14	2	194190-11520	BUSH 25X25	2	2	2					
15	1	194320-47860	BOLT	1	1	1					
16	1	198172-47890	SPRING	1	1	1					
17	1	198287-47900	LINK ASSY,D	1	1	1					
18	2	24550-012150	BUSH 12X15	1	1	1					
19	1	198287-47960	PLATE,LINK	1	1	1					
20	1	194180-72950	PIN ASSY, LOCK	1	1	1					
21	1	22117-100000	WASHER 10	2	2	2					
22	1	22117-100000	WASHER 10	1	1	1					
23	1	22117-120000	WASHER 12	1	1	1					
24	1	22217-100000	SPRING WASHER 10	1	1	1					
25	1	22242-000300	CIRCLIP 30	1	1	1					
26	1	22272-000070	CIRCLIP E- 7	1	1	1					
27	1	22372-080000	SNAP PIN (JASO 8)	1	1	1					
28	1	22372-100000	SNAP PIN 10	2	2	2					
29	1	22372-100000	SNAP PIN 10	1	1	1					
30	1	24761-010000	NIPPLE M6F, GREASE	2	2	2					
31	1	26106-060102	BOLT 6X 10 PLATED	2	2	2					
32	1	26106-060122	BOLT M 6X 12 PLATED	2	2	2					
33	1	26106-100252	BOLT M10X 25 PLATED	8	8	8					
34	1	26716-100002	NUT 10	2	2	2					
35	1	26716-160002	NUT M16	1	1	1					
36	1	26756-160002	LOCK NUT M16 PLATED	1	1	1					
37	1	26106-080122	BOLT M 8X 12 PLATED	1	1	1					

Fig.72. HYDRAULIC PIPING

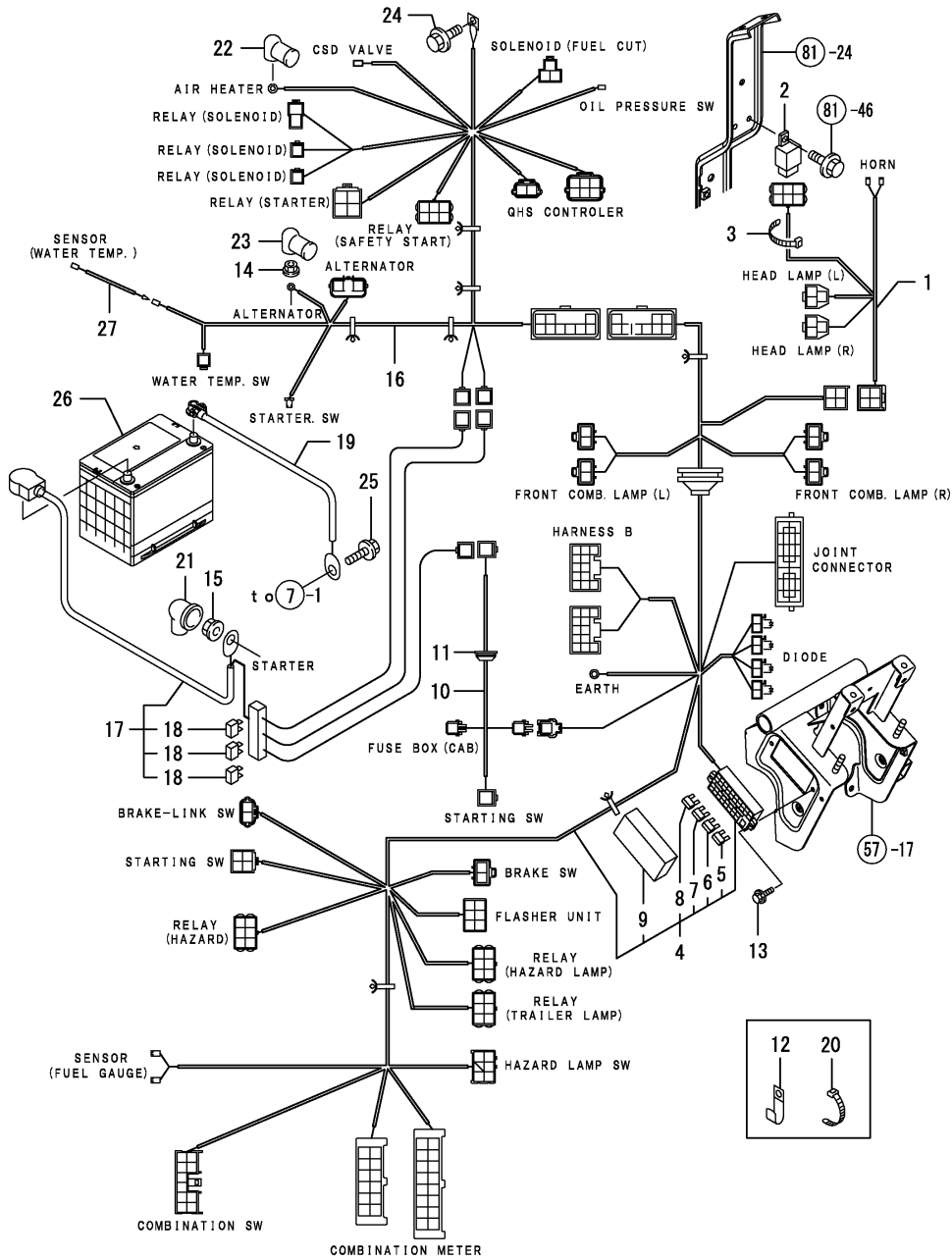


(A)=EF227E
(B)=EF230E
(C)=EF233E

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

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198010-41211	JOINT M22	1	1	1					
2	1	198200-48110	LINE ASSY,PRESSURE	1							
3	1	198220-48140	FLANGE	1	1	1					
4	1	198200-48160	LINE ASSY,LOW PRESS.	1							
5	1	198072-48340	TUBE,LOW-PRES.RUBBER	1	1	1					
6	1	198330-48410	CLAMP	1	1	1					
7	1	198200-48810	CLAMP	2	2	2					
8	1	198240-48850	CUSSION	2	2	2					
9	1	175022-49730	CRIP 31, HOSE	3	3	3					
10	1	1E6680-66470	ELBOW 3/8 W/SEAT	1	1	1					
11	1	198360-86840	COLLAR 8.4X12X15	1	1	1					
12	1	24311-000140	O-RING 1A P-14.0	1	1	1					
13	1	24311-000200	O-RING 1A P-20.0	1	1	1					
14	1	24311-000200	O-RING 1A P-20.0	1	1	1					
15	1	24311-000200	O-RING 1A P-20.0	1	1	1					
16	1	24311-000260	O-RING 1A P-26.0	1	1	1					
17	1	26018-060252	BOLT M 6X 25	4	4	4					
18	1	26106-060202	BOLT M 6X 20 PLATED	1	1	1					
19	1	26106-060452	BOLT M 6X 45 PLATED	2	2	2					
20	1	26106-080162	BOLT M 8X 16 PLATED	1	1	1					
21	1	26106-080202	BOLT M 8X 20 PLATED	1	1	1					
22	1	26106-080302	BOLT M 8X 30 PLATED	1	1	1					
23	1	198208-48110	LINE ASSY,PRESSURE	1	1	1					
24	1	198208-48160	LINE ASSY,LOW PRESS.	1	1	1					
25	1	1A6660-24250	PLUG, BORE 32	1	1	1					
26	1	198119-48310	ELEMENT	1	1	1					
27	1	198200-48350	COVER, FILTER	1	1	1					
28	1	24311-000340	O-RING 1A P-34.0	1	1	1					
29	1	26106-080252	BOLT M 8X 25 PLATED	2	2	2					

Fig.73. WIRE HARNESS

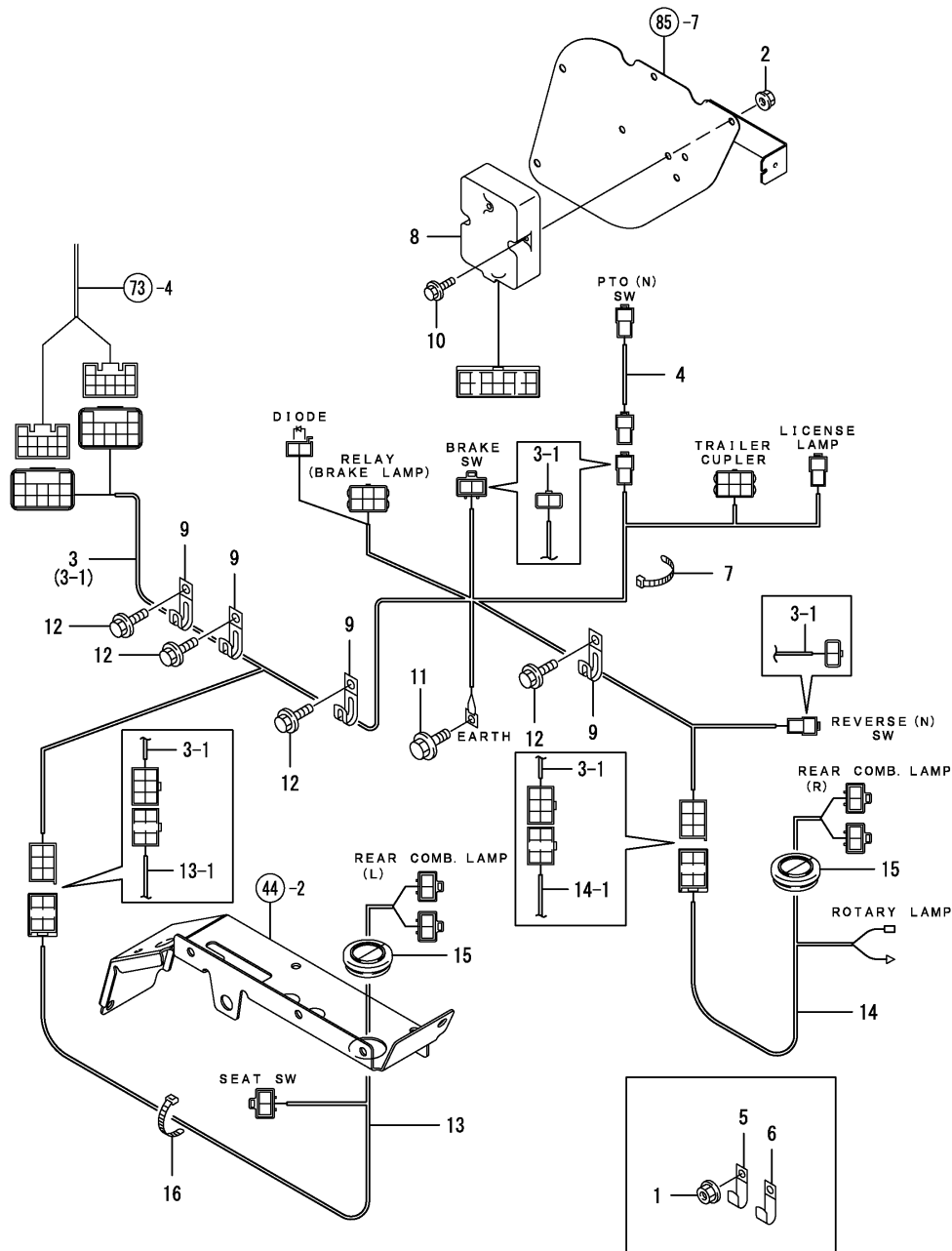


(A)=EF227E
(B)=EF230E
(C)=EF233E

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

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198280-51170	WIRING HARNESS, LAMP	1	1	1					
2	1	198461-52950	RELAY CA,TYPE C	1	1	1					
3	1	29622-250001	BAND RF 250	1	1	1					
4	1	198282-51150	WIRING HARNESS, F	1	1	1					
5	2	198535-52110	FUSE	3	3	3					
6	2	198535-52120	FUSE 10A	4	4	4					
7	2	198535-52130	FUSE 15A	3	3	3					
8	2	198535-52140	FUSE 20A	3	3	3					
9	2	198200-52520	COVER, FUSE BOX	1	1	1					
10	1	198280-51200	CABLE, STARTER	1	1	1					
11	1	194170-51210	GROMMET 25	1	1	1					
12	1	194242-51660	CLAMP, WIRE HARNESS	1	1	1					
13	1	26106-060122	BOLT M 6X 12 PLATED	2	2	2					
14	1	194990-22130	NUT W/WASHER 6	1	1	1					
15	1	194990-22140	NUT W/WASHER 8	1	1	1					
16	1	198282-51110	WIRING HARNESS, A	1	1	1					
17	1	198280-51410	CABLE, BATTERY	1	1	1					
18	2	1A7000-52820	SLOW BLOW FUSE60A	3	3	3					
19	1	194250-51420	CABLE, BATTERY EARTH	1	1	1					
20	1	198220-51870	CLAMP 200	3	3	3					
21	1	124550-77030	COVER, TERMINAL	1	1	1					
22	1	124756-77040	COVER, TERMINAL	1	1	1					
23	1	124756-77040	COVER, TERMINAL	1	1	1					
24	1	26106-080122	BOLT M 8X 12 PLATED	1	1	1					
25	1	26106-080162	BOLT M 8X 16 PLATED	1	1	1					
26	1	198280-51540	BATTERY,	1	1	1					
27	1	198200-51510	CORD,WATER TEMP.	1							

Fig.74. WIRE HARNESS

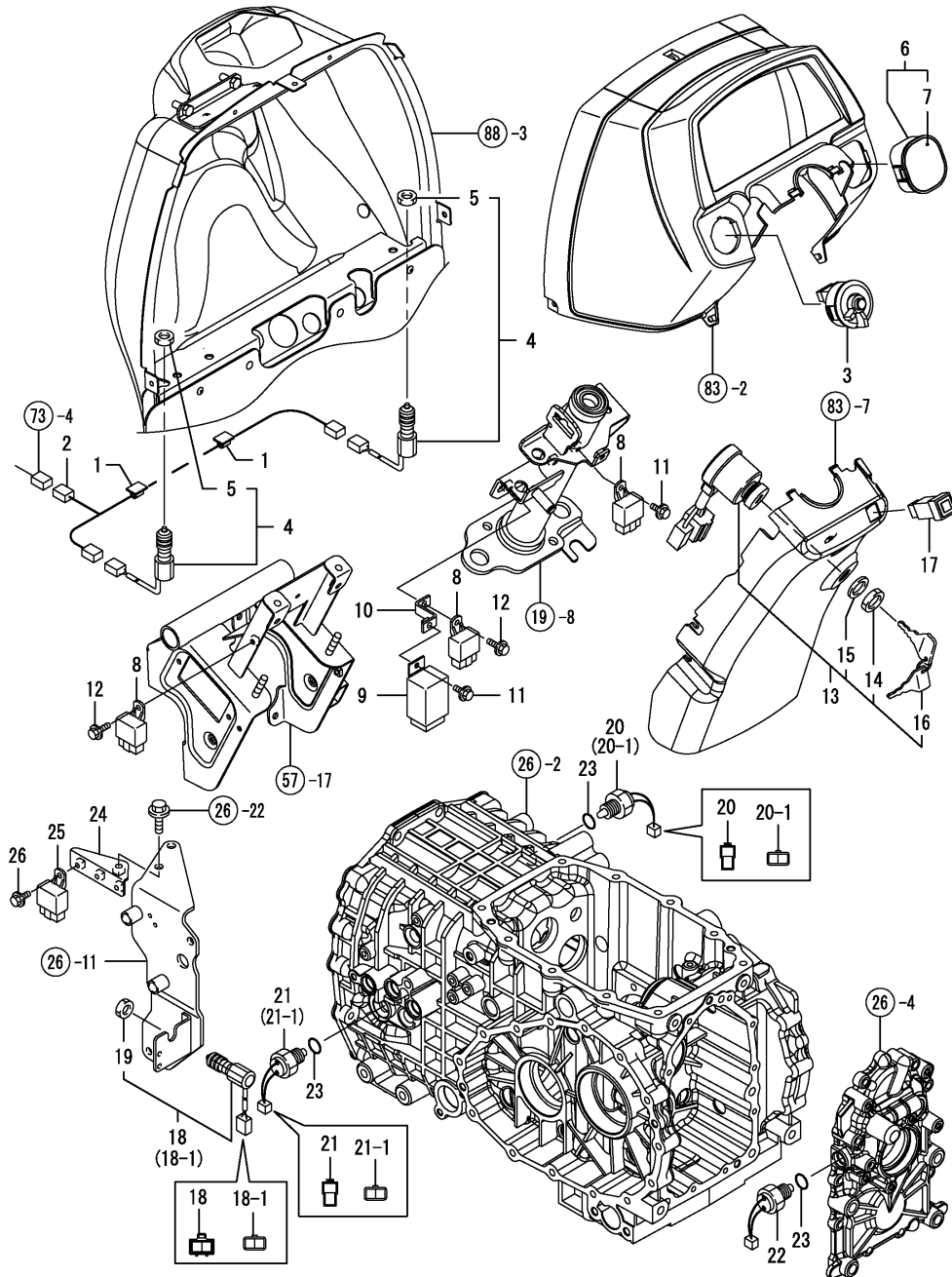


(A)=EF227E
(B)=EF230E
(C)=EF233E

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

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194990-22130	NUT W/WASHER 6	1	1	1					
2	1	194990-22130	NUT W/WASHER 6	2	2	2					
3	1	198282-51130	WIRING HARNESS, B	1	1	1					
3-1	1	198282-51131	WIRING HARNESS (A=*2005.10.) (B=*2005.10.) (C=*2005.10.)	1	1	1					S
4	1	198282-51230	WIRING HARNESS EX,PT (A=*2005.10.) (B=*2005.10.) (C=*2005.10.)	1	1	1					Z
5	1	194440-51630	CLAMP, WIRE HARNESS	1	1	1					
6	1	194180-51640	CLAMP, WIRE HARNESS	2	2	2					
7	1	198220-51870	CLAMP 200	1	1	1					
8	1	198165-52600	CONTROLER,CHAIN	1	1	1					
9	1	1E6102-83230	CLAMP,BATTERY CABLE	4	4	4					
10	1	26106-060202	BOLT M 6X 20 PLATED	2	2	2					
11	1	26106-080122	BOLT M 8X 12 PLATED	1	1	1					
12	1	26106-080122	BOLT M 8X 12 PLATED	4	4	4					
13	1	198280-51180	WIRING HARNESS, C	1	1	1					
13-1	1	198280-51181	WIRING HARNESS, C (A=*2005.10.) (B=*2005.10.) (C=*2005.10.)	1	1	1					S
14	1	198280-51190	WIRING HARNESS, D	1	1	1					
14-1	1	198280-51191	WIRING HARNESS, D (A=*2005.10.) (B=*2005.10.) (C=*2005.10.)	1	1	1					S
15	1	198133-51350	GROMMET 38A	2	2	2					
16	1	29622-250001	BAND RF 250	1	1	1					

Fig.75. SWITCH



(A)=EF227E
(B)=EF230E
(C)=EF233E

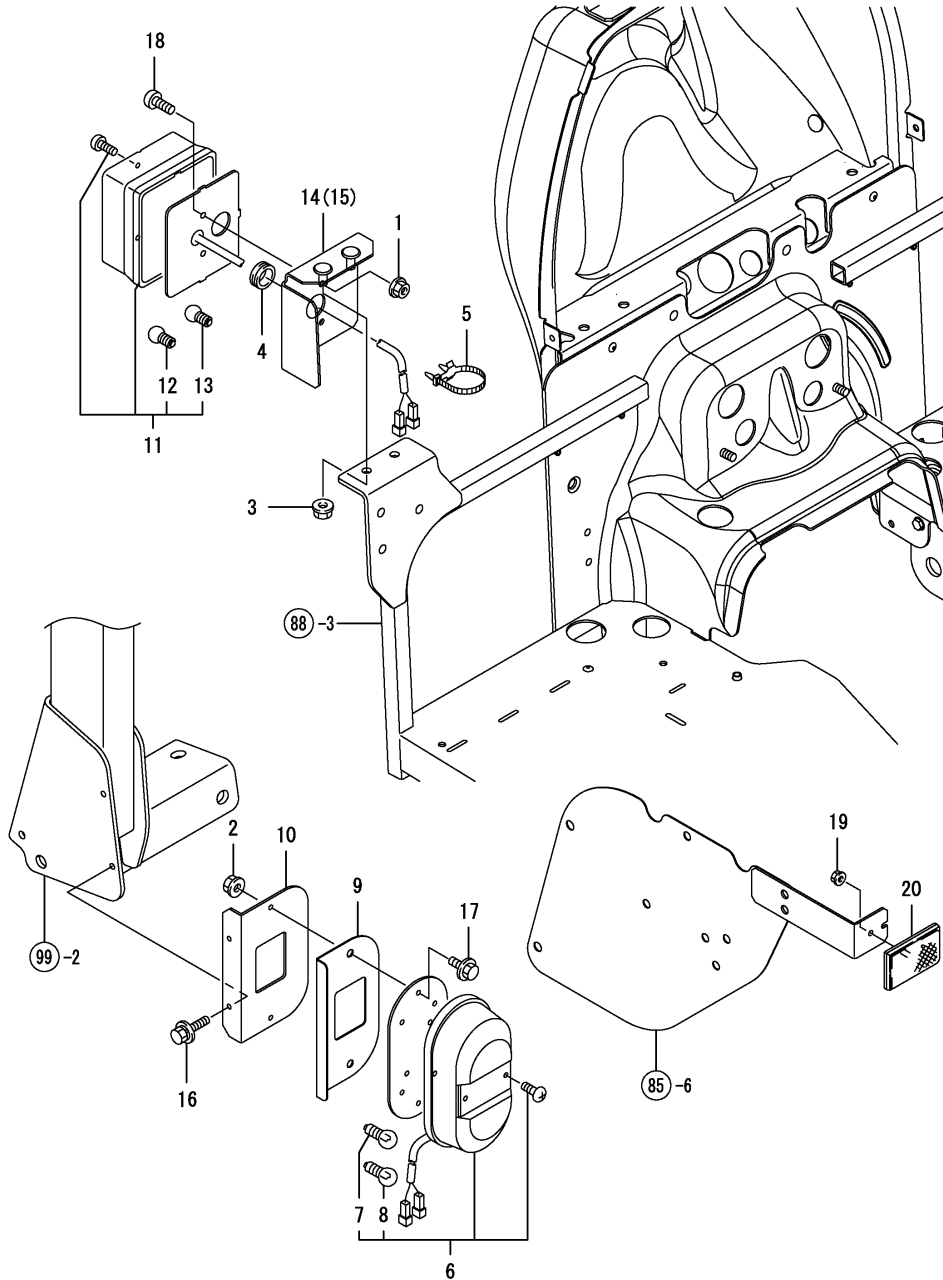
(D)=
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172010-07810	STICKER, WIRE	2	2	2					
2	1	198282-51270	WIRING HARNESS, BRAKE	1	1	1					
3	1	198200-52140	SWITCH, COMBINATION	1	1	1					
4	1	198223-52150	SWITCH, BRAKE LAMP	2	2	2					
5	2	26776-120002	LOCK NUT M12 PLATED	2	2	2					
6	1	198280-52450	SWITCH BOX, CAP	1	1	1					
7	2	198280-52460	LABEL,	1	1	1					
8	1	198461-52950	RELAY CA, TYPE C	3	3	3					
9	1	198282-57200	FLASHER RELAY	1	1	1					
10	1	198282-57250	STAY, RELAY	1	1	1					
11	1	26106-060122	BOLT M 6X 12 PLATED	2	2	2					
12	1	26106-060162	BOLT M 6X 16 PLATED	2	2	2					
13	1	194940-52110	SWITCH, STARTER	1	1	1					
14	2	198360-52320	NUT, RING	1	1	1					
15	2	198360-52330	WASHER	1	1	1					
16	2	198360-52160	KEY COMPL.	1	1	1					
17	1	1A7335-52120	HAZARD SW	1	1	1					
18	1	198223-52150	SWITCH, BRAKE LAMP	1	1	1					
18-1	1	198280-52130	SWITCH ASSY, LAMP	1	1	1					S
		(A=*2005.10.) (B=*2005.10.) (C=*2005.10.)									
19	2	26776-120002	LOCK NUT M12 PLATED	1	1	1					
20	1	194464-52190	SWITCH, SAFETY START	1	1	1					
20-1	1	198269-52190	SWITCH	1	1	1					S
		(A=*2005.10.) (B=*2005.10.) (C=*2005.10.)									
21	1	194464-52190	SWITCH, SAFETY START	1	1	1					
21-1	1	198269-52190	SWITCH	1	1	1					S
		(A=*2005.10.) (B=*2005.10.) (C=*2005.10.)									
22	1	194464-52190	SWITCH, SAFETY START	1	1	1					
23	1	24311-000180	O-RING 1A P-18.0	3	3	3					
24	1	198280-58100	STAY, RELAY	1	1	1					
25	1	198461-52950	RELAY CA, TYPE C	1	1	1					
26	1	26106-060122	BOLT M 6X 12 PLATED	1	1	1					

Fig.76. LAMP

(A)=EF227E
(B)=EF230E
(C)=EF233E

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



REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194990-22120	NUT W/WASHER 5	4	4	4					
2	1	194990-22130	NUT W/WASHER 6	4	4	4					
3	1	194990-22140	NUT W/WASHER 8	4	4	4					
4	1	198448-33390	GROMMET,CABLE	2	2	2					
5	1	194680-51670	BAND	6	6	6					
6	1	198280-53300	LAMP ASSY, REAR	2	2	2					
7	2	1A7100-53220	BULB	2	2	2					
8	2	198280-53330	VALVE, 12V P21/5W	2	2	2					
9	1	198280-53350	PLATE, REAR LAMP	2	2	2					
10	1	198280-53360	STAY, REAR LAMP	2	2	2					
11	1	198280-53400	LAMP ASSY,FRONT	2	2	2					
12	2	1A7100-53220	BULB	2	2	2					
13	2	1A7100-53230	BULB	2	2	2					
14	1	198280-53510	BRACKET, L FRONT	1	1	1					
15	1	198280-53520	BRACKET, R FRONT	1	1	1					
16	1	198461-60590	BOLT 6* 20	4	4	4					
17	1	26106-060162	BOLT M 6X 16 PLATED	4	4	4					
18	1	26557-050122	SCREW M 5X 12	4	4	4					
19	1	194990-22120	NUT W/WASHER 5	2	2	2					
20	1	198280-62250	REFLECTOR	2	2	2					

Fig.77. LICENCE LAMP

(A)=EF227E
(B)=EF230E
(C)=EF233E

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

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194990-22130	NUT W/WASHER 6	1	1	1					
2	1	1C6650-37480	SCREW M6X16,TAPPING	2	2	2					
3	1	194440-51630	CLAMP, WIRE HARNESS	1	1	1					
4	1	1A7100-53400	LAMP	1	1	1					
5	2	1A7100-53420	BULB,LAMP	1	1	1					
6	1	198280-53710	BRACKET ASSY,	1	1	1					
7	1	198280-53750	SEAL, LICENCE LAMP	1	1	1					
8	1	198093-85650	BOLT M6X16	2	2	2					

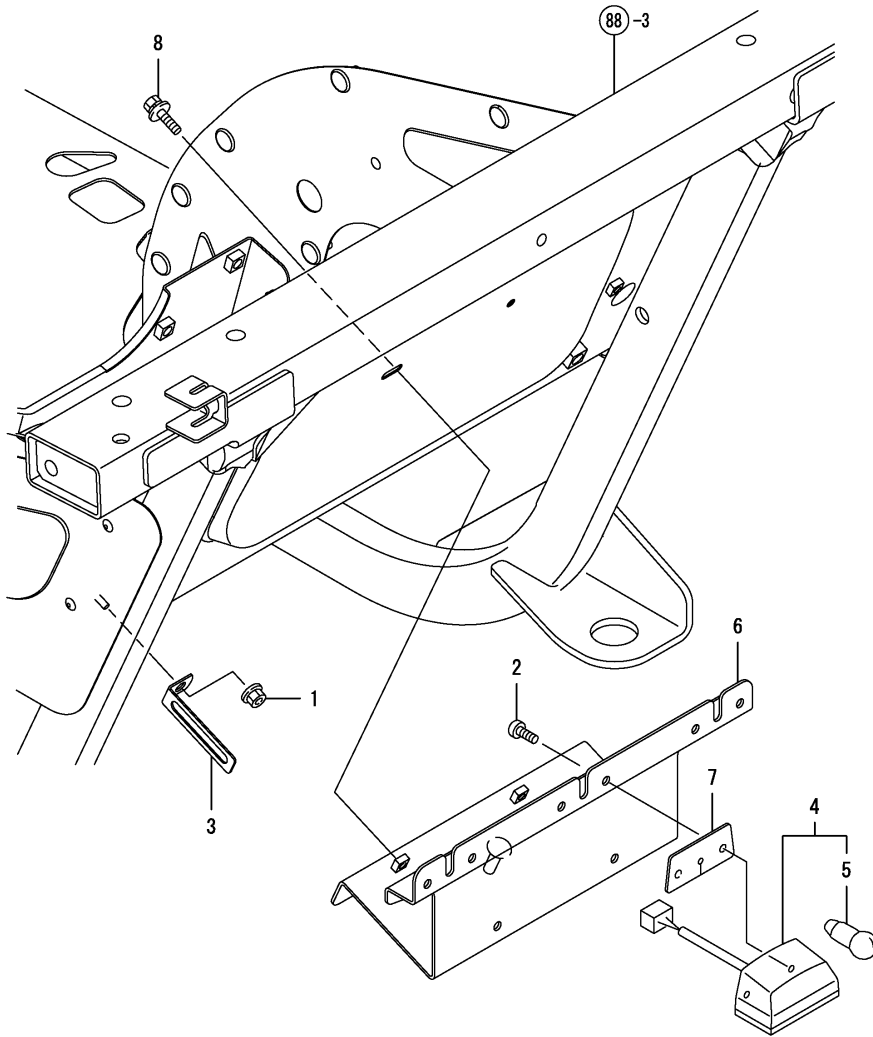


Fig.78. METER

(A)=EF227E
(B)=EF230E
(C)=EF233E

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

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198280-56011	METER ASSY,	1	1	1					
1-1	1	198280-56012	METER ASSY,	1	1	1					N
		(A=FXXXXXX) (B=FXXXXXX) (C=FXXXXXX)									
1-2	1	198280-56013	METER ASSY,	1	1	1					R
		(A=FXXXXXX) (B=FXXXXXX) (C=FXXXXXX)									
5	2	1C6920-36260	BULB, 12V-3.4W	1	1	1					
6	2	198200-56050	BULB, 12V-1.7W	10	10	10					
7	2	198448-56150	LAMP 14V/1.4W	5	5	5					
8	2	198200-56060	GLASS,	1	1	1					
11	1	194940-61790	SCREW 5X16	4	4	4					

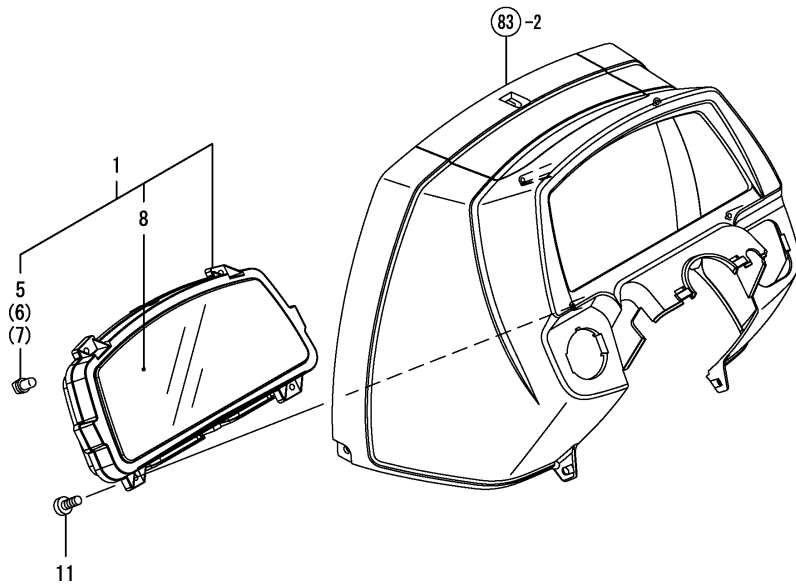


Fig.79. HORN

(A)=EF227E
 (B)=EF230E
 (C)=EF233E

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

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	1C7100-08150	HORN,ELECTRIC	1	1	1					
2	1	26106-060082	BOLT M 6X 8 PLATED	1	1	1					

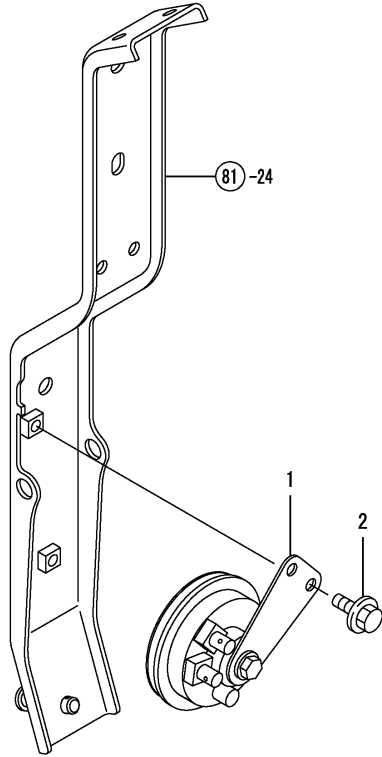
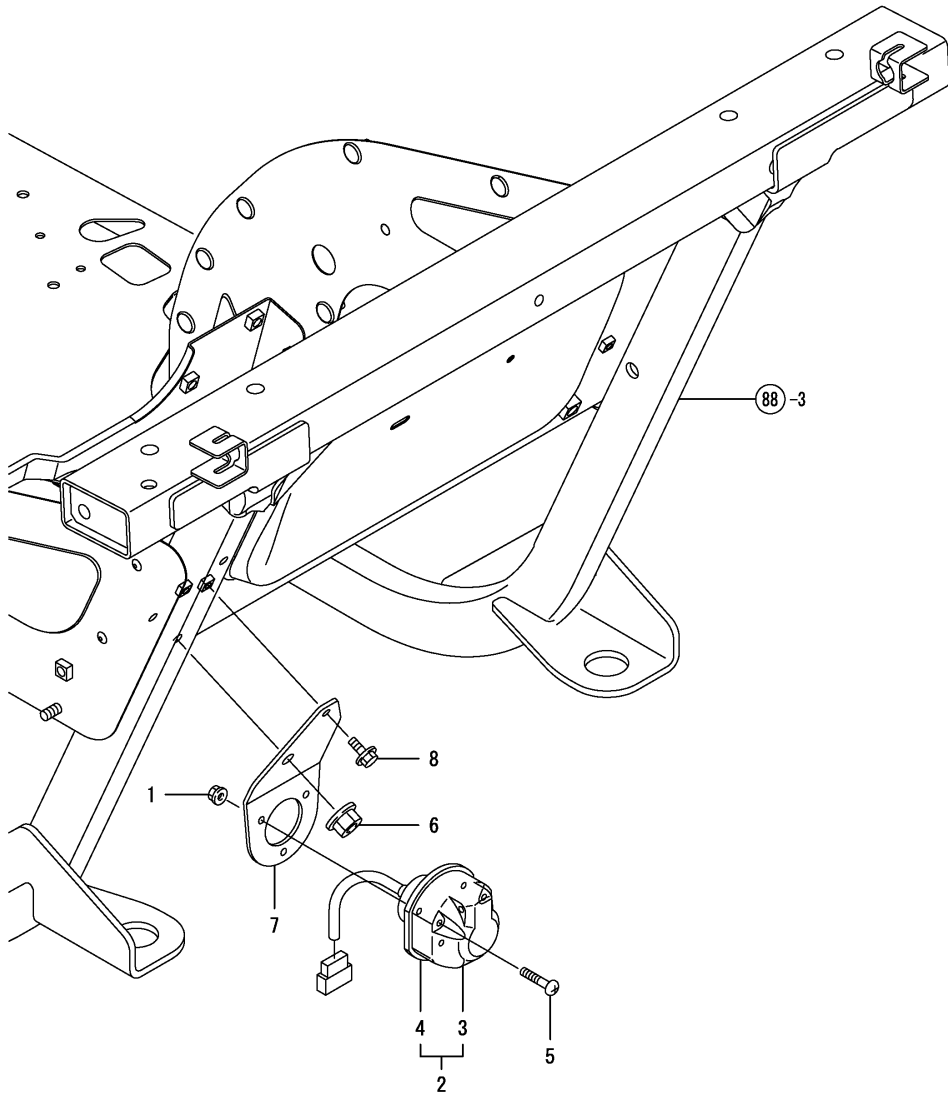


Fig.80. COUPLER

(A)=EF227E
(B)=EF230E
(C)=EF233E

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

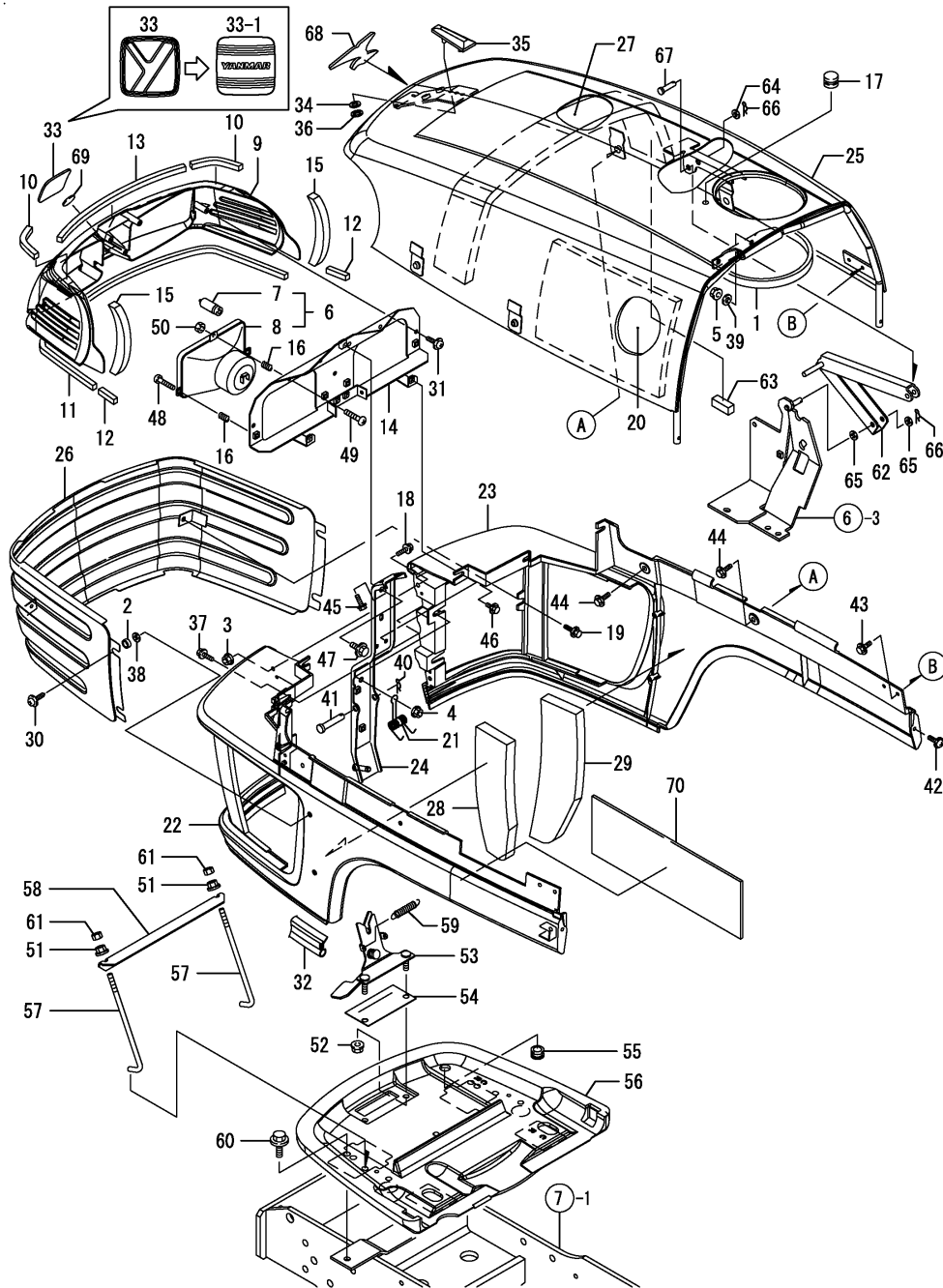


REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194990-22120	NUT W/WASHER 5	3	3	3					
2	1	198163-52150	COUPLER SET,	1	1	1					
3	2	198163-52110	COUPLER ASSY,	1	1	1					
4	2	198163-52120	BOOT, COUPLER	1	1	1					
5	1	26557-050352	SCREW M 5X 35	3	3	3					
6	1	194990-22150	NUT W/WASHER 10	1	1	1					
7	1	198280-57340	BRACKET, COUPLER	1	1	1					
8	1	26106-060122	BOLT M 6X 12 PLATED	1	1	1					

Fig.81. HOOD

(A)=EF227E
(B)=EF230E
(C)=EF233E

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



REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198200-04251	GASKET, DRIP PAN	1	1	1					
2	1	174501-07060	COLLAR 10X15X6	4	4	4					
3	1	194990-22130	NUT W/WASHER 6	2	2	2					
4	1	194990-22140	NUT W/WASHER 8	1	1	1					
5	1	194990-22140	NUT W/WASHER 8	2	2	2					
6	1	1A7100-53100	HEADLAMP CMP.	2	2	2					
7	2	1A7100-53130	BULB	2	2	2					
8	2	1A7100-53140	COVER	2	2	2					
9	1	198280-53150	COVER, HEAD LAMP	1	1	1					
10	1	198280-53170	SEAL, A COVER	2	2	2					
11	1	198280-53180	SEAL, B COVER	1	1	1					
12	1	198280-53190	SEAL, C COVER	2	2	2					
13	1	198200-53210	SEAL, HEAD LAMP	1	1	1					
14	1	198280-53210	BRACKET ASSY, LAMP	1	1	1					
15	1	198200-53230	SEAL, HEAD LAMP	2	2	2					
16	1	198327-53280	SPRING 1.2	6	6	6					
17	1	194197-56350	GROMMET	1	1	1					
18	1	198461-60590	BOLT 6* 20	3	3	3					
19	1	198461-60590	BOLT 6* 20	2	2	2					
20	1	1A7260-60890	URETHANE, HOOD UPPER	1	1	1					
21	1	198200-60910	SPRING, HOOD	1	1	1					
22	1	198200-61152	HOOD, LOWER L	1	1	1					
23	1	198200-61162	HOOD, LOWER R	1	1	1					
24	1	198280-61210	STAY ASSY, FRONT	1	1	1					
25	1	198280-61260	HOOD M ASSY	1	1	1					
26	1	198200-61340	NET ASSY, HOOD	1	1	1					
27	1	198200-61410	URETHANE, HOOD UPPER	1	1	1					
28	1	198200-61420	URETHANE, HOOD LOWER	1	1	1					
29	1	198200-61430	URETHANE, HOOD LOWER	1	1	1					
30	1	194420-61640	SCREW M 5X 16	4	4	4					
31	1	194420-61640	SCREW M 5X 16	4	4	4					
32	1	198133-61950	RUBBER 950	1	1	1					
33	1	198421-65030	MARK 50,YANMAR	1	1	1					
33-1	1	198200-65250	LABEL,YANMAR	1	1	1					S
				(A=*2006.05)	(B=*2006.05)	(C=*2006.05)					
34	1	194555-65130	CUSHION	2	2	2					
35	1	194940-65590	MARK,TOP	1	1	1					
36	1	198071-65610	NUT M5,SPEED	2	2	2					
37	1	198093-82510	BOLT M8X25,COLLAR	1	1	1					
38	1	22137-060000	WASHER 6, POLISHED	4	4	4					
39	1	22137-080000	WASHER 8, POLISHED	2	2	2					
40	1	22372-100000	SNAP PIN 10	1	1	1					
41	1	22487-100550	PIN 10X 55	1	1	1					
42	1	26021-050122	SCREW M 5X 12	2	2	2					
43	1	26106-060082	BOLT M 6X 8 PLATED	2	2	2					
44	1	26106-060122	BOLT M 6X 12 PLATED	4	4	4					
45	1	26106-060122	BOLT M 6X 12 PLATED	2	2	2					
46	1	26106-060162	BOLT M 6X 16 PLATED	4	4	4					
47	1	26106-080162	BOLT M 8X 16 PLATED	1	1	1					
48	1	26557-060302	SCREW M 6X 30	4	4	4					
49	1	26587-040202	SCREW M 4X 20	2	2	2					

N:Old $\begin{matrix} \text{Yes} \\ \text{No} \end{matrix}$ New, Q:Old $\begin{matrix} \text{No} \\ \text{Yes} \end{matrix}$ New, R:Old $\begin{matrix} \text{Yes} \\ \text{No} \end{matrix}$ New, S:Old $\begin{matrix} \text{No} \\ \text{Yes} \end{matrix}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
 ++ CONTINUE ++
 (C)Copy Rights YANMAR CO.,LTD.

Fig.81. HOOD

(A)=EF227E

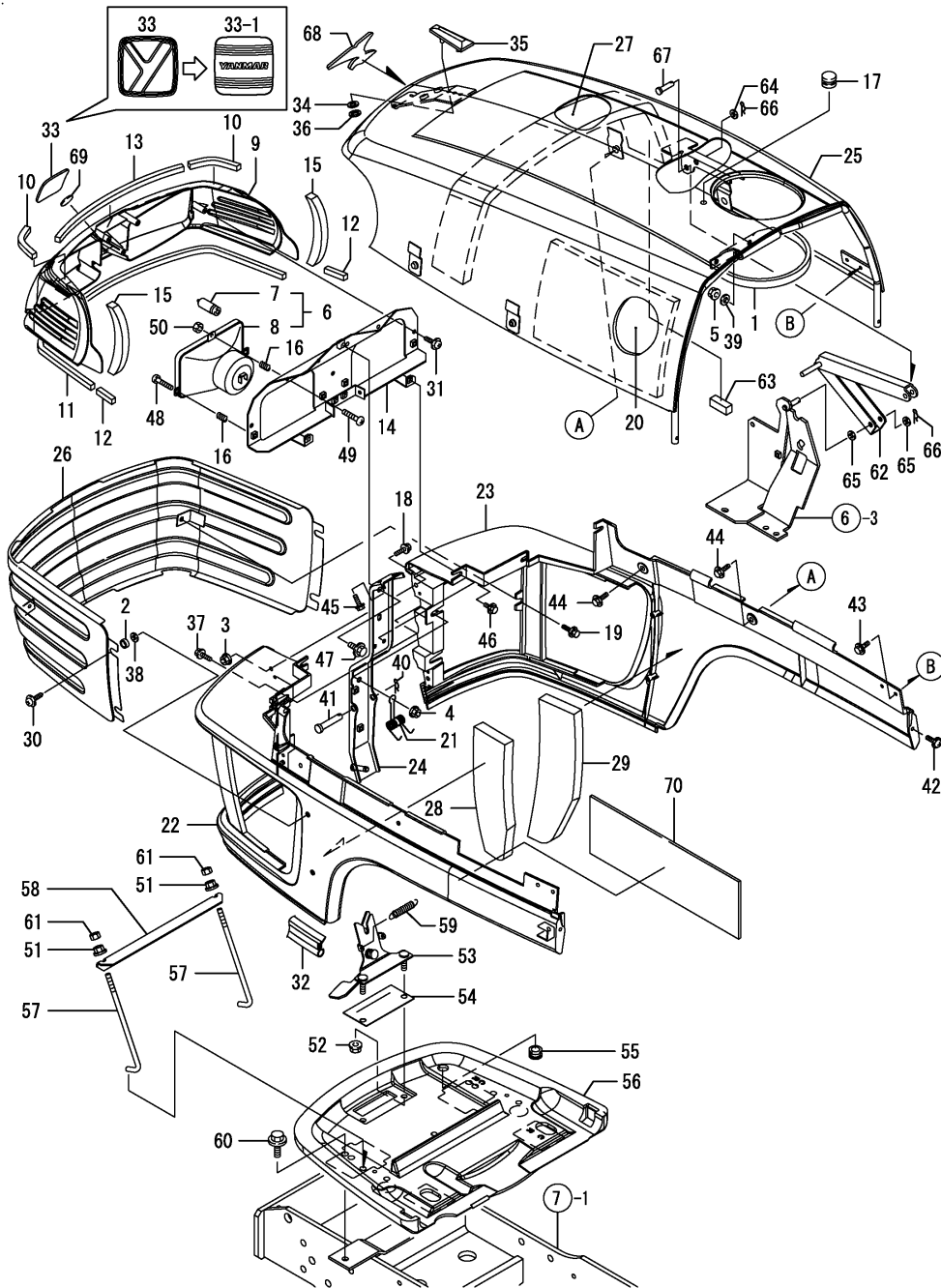
(B)=EF230E

(C)=EF233E

(D)=

(E)=

(F)=

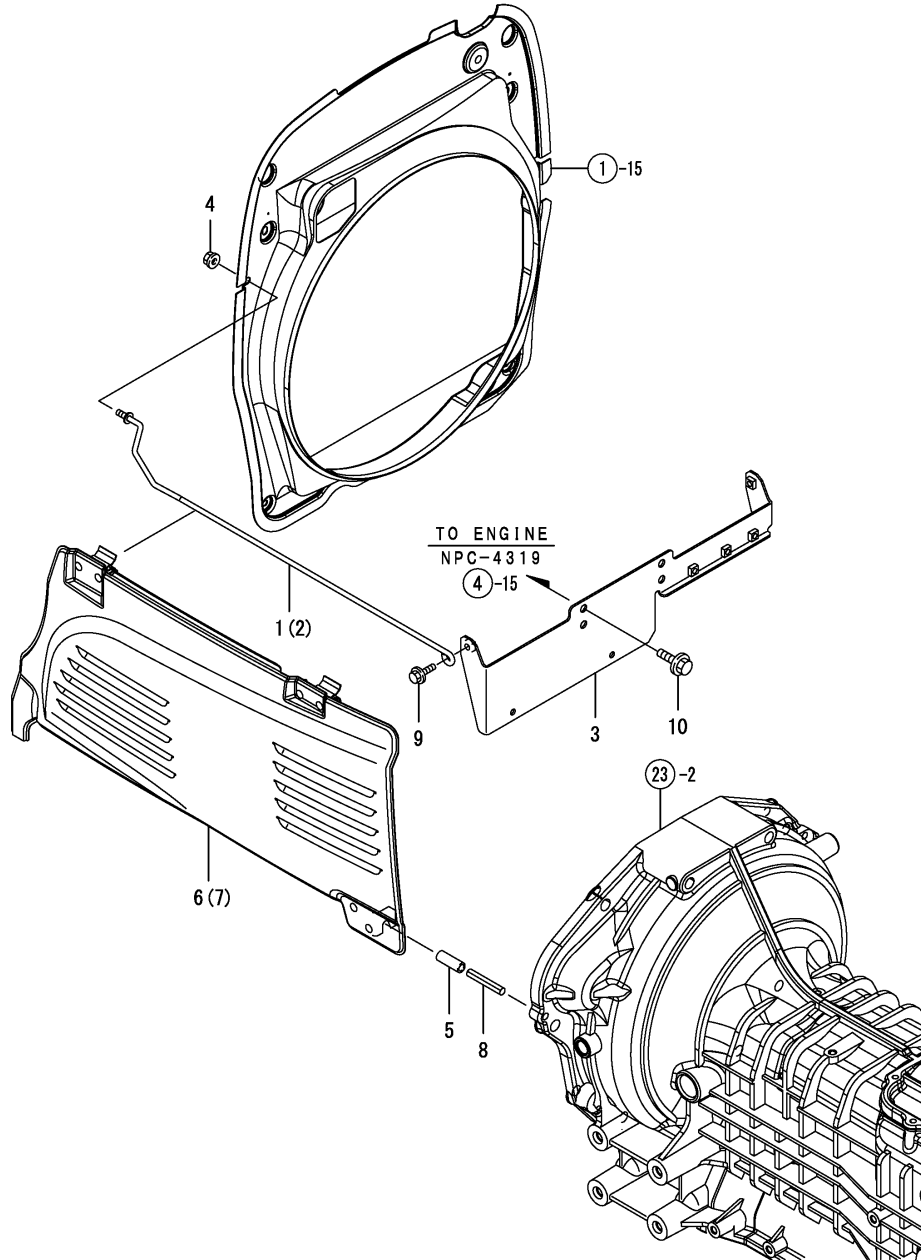


REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
50	1	26716-040002	NUT M 4	2	2	2					
51	1	194990-22140	NUT W/WASHER 8	2	2	2					
52	1	194990-22140	NUT W/WASHER 8	2	2	2					
53	1	198200-61250	LOCK ASSY, HOOD	1	1	1					
54	1	198200-61320	SEAL, HOOD LOCK	1	1	1					
55	1	198200-61490	GROMMET, 8	1	1	1					
56	1	198280-61500	SUPPORT, BATTERY	1	1	1					
57	1	198200-61530	ROD, BATTERY CLAMP	2	2	2					
58	1	198200-61580	CLAMP, BATTERY	1	1	1					
59	1	198230-61960	SPRING	1	1	1					
60	1	26106-100302	BOLT M10X 30 PLATED	2	2	2					
61	1	26716-080002	NUT M 8	2	2	2					
62	1	198200-61400	STAND ASSY	1	1	1					
63	1	198200-61550	STOPPER, STAND	3	3	3					
64	1	22137-080000	WASHER 8, POLISHED	1	1	1					
64-1	1	22190-080000	SEAL WASHER 8(BOLT)	1	1	1					N
		(A=FXXXXXX) (B=FXXXXXX) (C=FXXXXXX)									
65	1	22190-080000	SEAL WASHER 8(BOLT)	2	2	2					
66	1	22372-080000	SNAP PIN (JASO 8)	2	2	2					
67	1	22487-080300	PIN 8X 30	1	1	1					
68	1	198200-65010	MARK, BRAN 63-R400	1	1	1					W
		(A=*2006.05.) (B=*2006.05.) (C=*2006.05.)									
69	1	198208-65260	LABEL, PROTECTOR	1	1	1					W
		(A=*2006.05.) (B=*2006.05.) (C=*2006.05.)									
70	1	198283-60100	URETHANE, HOOD LOWER	1	1	1					W
		(A=*2008.08.) (B=*2008.08.) (C=*2008.08.)									

Fig.82. SIDE COVER

(A)=EF227E
(B)=EF230E
(C)=EF233E

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

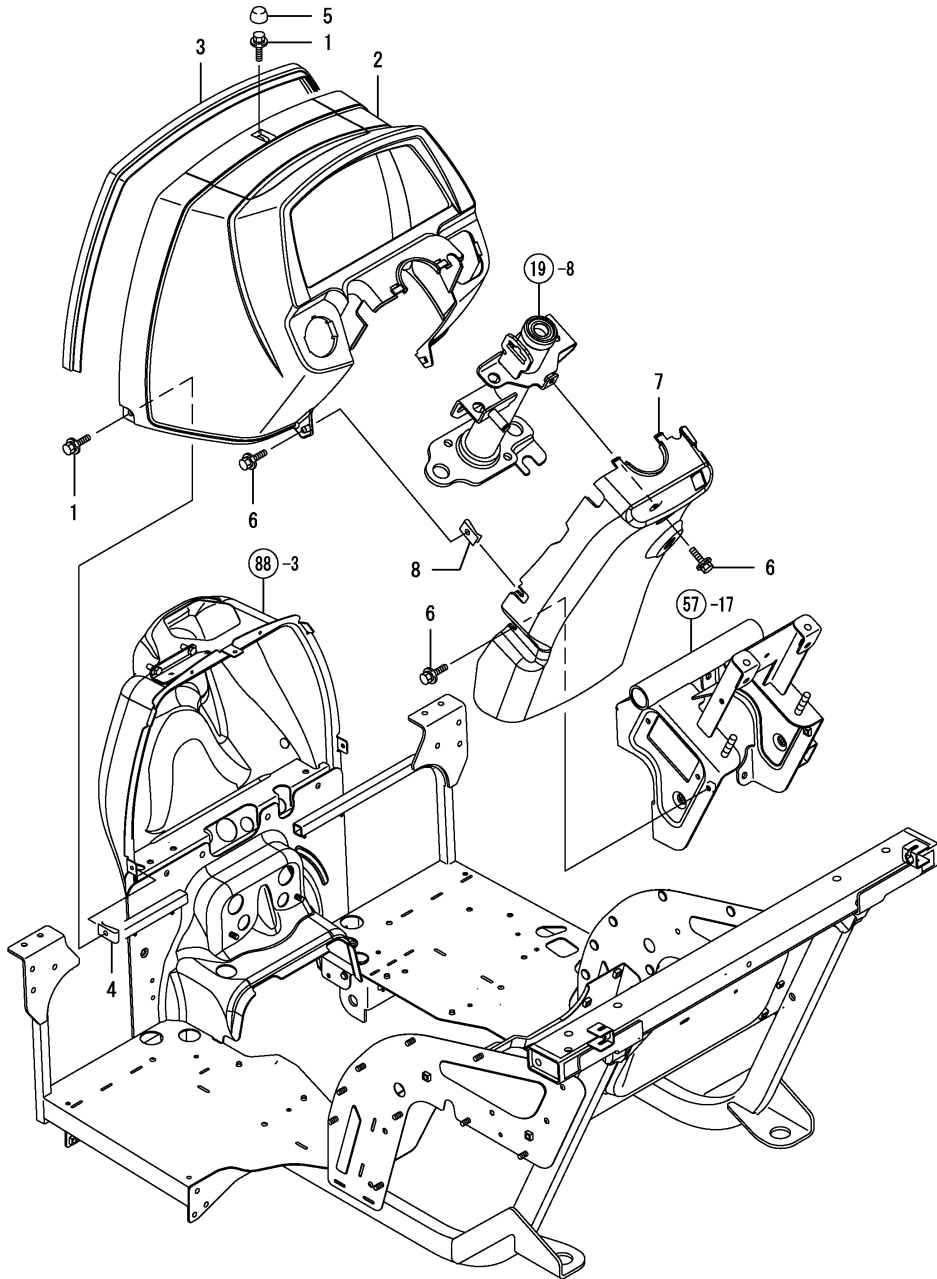


REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198200-01570	STAY ASSY, COVER L	1	1	1					
2	1	198200-01580	STAY ASSY, COVER R	1	1	1					
3	1	198200-01600	STAY ASSY, REAR	1	1	1					
4	1	194990-22130	NUT W/WASHER 6	2	2	2					
5	1	198200-60990	PIPE, GUARD	2	2	2					
6	1	198280-61000	COVER M ASSY, SIDE L	1	1	1					
7	1	198280-61010	COVER M ASSY, SIDE R	1	1	1					
8	1	22351-080050	SPRING PIN 8X50	2	2	2					
9	1	26106-060162	BOLT M 6X 16 PLATED	2	2	2					
10	1	26106-080122	BOLT M 8X 12 PLATED	2	2	2					

Fig.83. DASHBOARD

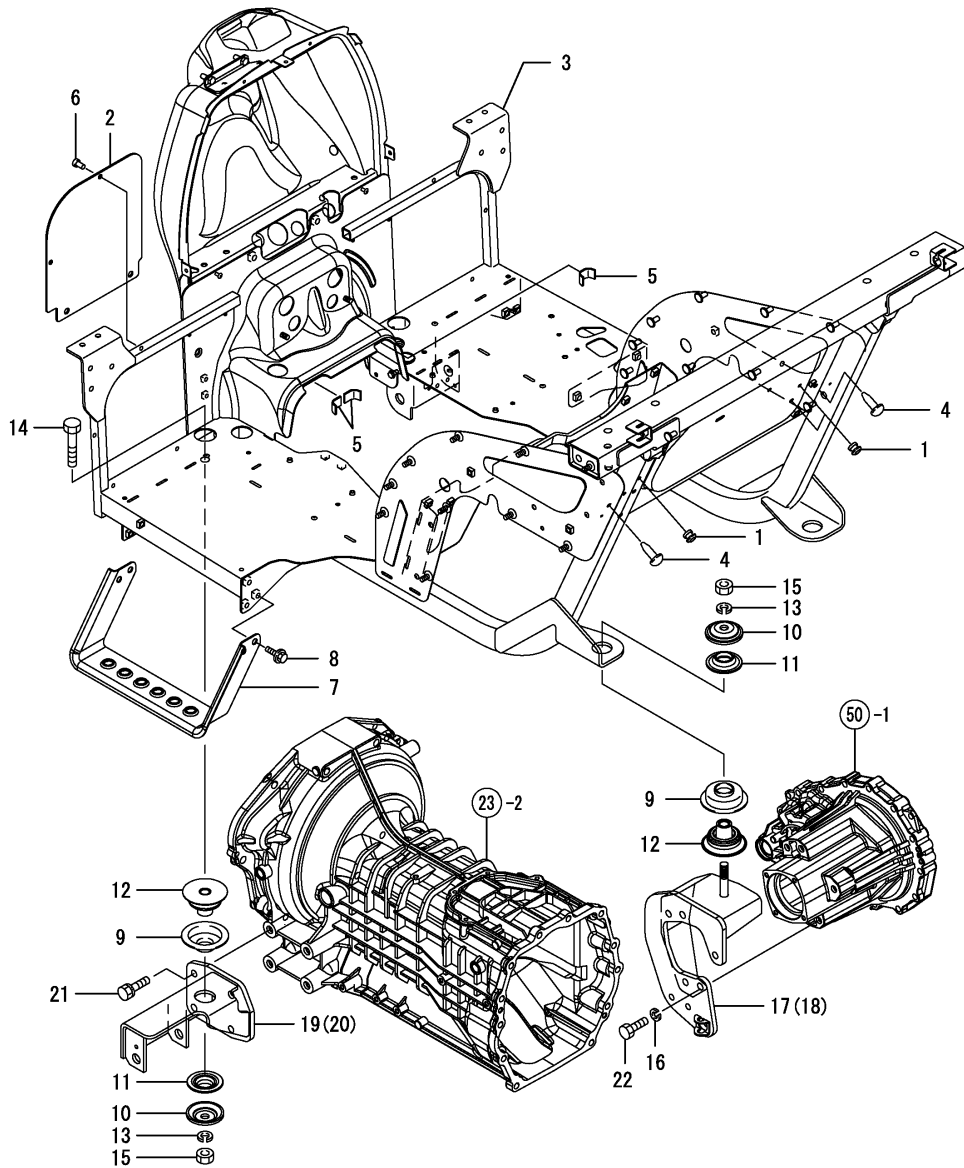
(A)=EF227E
(B)=EF230E
(C)=EF233E

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



REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198072-60590	BOLT M6X20	3	3	3					
2	1	198282-61590	DASHBOARD M ASSY	1	1	1					
3	1	198200-61620	TRIM, 920	1	1	1					
3-1	1	1A8115-61620	WEATER STORIP,920	1	1	1					N
		(A=*2009.02.)	(B=*2009.02.)	(C=*2009.02.)							
4	1	198071-61890	NUT 6,SPEED	3	3	3					
5	1	198200-63620	CAP, BOLT	1	1	1					
6	1	198461-60590	BOLT 6* 20	5	5	5					
7	1	198282-61680	COLUMN R M ASSY	1	1	1					
8	1	198071-61890	NUT 6,SPEED	2	2	2					

Fig.88. FLOOR



(A)=EF227E
(B)=EF230E
(C)=EF233E

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

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	1C6053-26020	CAP, RUBBER	3	3	3					
2	1	198200-62300	GUARD, DUST FOOT	2	2	2					
3	1	198280-62490	FLOOR M ASSY	1	1	1					
4	1	1E6760-74150	CAP 8,HOLE	2	2	2					
5	1	198093-84810	SEAL,FENDER	3	3	3					
6	1	197810-84840	RIVET	2	2	2					
7	1	198200-62560	SUB-STEP,	1	1	1					
8	1	26106-080162	BOLT M 8X 16 PLATED	4	4	4					
9	1	198071-62900	STOPPER,MOUNT	4	4	4					
10	1	198200-62910	STOPPER, U	4	4	4					
11	1	198200-62970	MOUNT, UPPER	4	4	4					
12	1	198200-62990	MOUNT, LOWER	4	4	4					
13	1	22217-140000	SPRING WASHER 14	4	4	4					
14	1	26116-140752	BOLT M14X 75 PLATED	2	2	2					
15	1	26716-140002	NUT M14	4	4	4					
16	1	194274-13580	SPRING WASHER 12	10	10	10					
17	1	198280-62630	MOUNT ASSY, REAR L	1	1	1					
18	1	198280-62640	MOUNT ASSY, REAR R	1	1	1					
19	1	198280-62850	MOUNT ASSY, FRONT L	1	1	1					
20	1	198280-62860	MOUNT ASSY, FRONT R	1	1	1					
21	1	26013-120402	BOLT M12X 40	8	8	8					
22	1	26116-120402	BOLT M12X 40	10	10	10					

Fig.89. DRIVER SEAT

(A)=EF227E
(B)=EF230E
(C)=EF233E

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

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198282-62910	COVER ASSY,DUST B	1	1	1					
2	1	198282-63110	SEAT CMP	1	1	1					
3	1	26106-080122	BOLT M 8X 12 PLATED	6	6	6					
4	1	26106-080162	BOLT M 8X 16 PLATED	4	4	4					

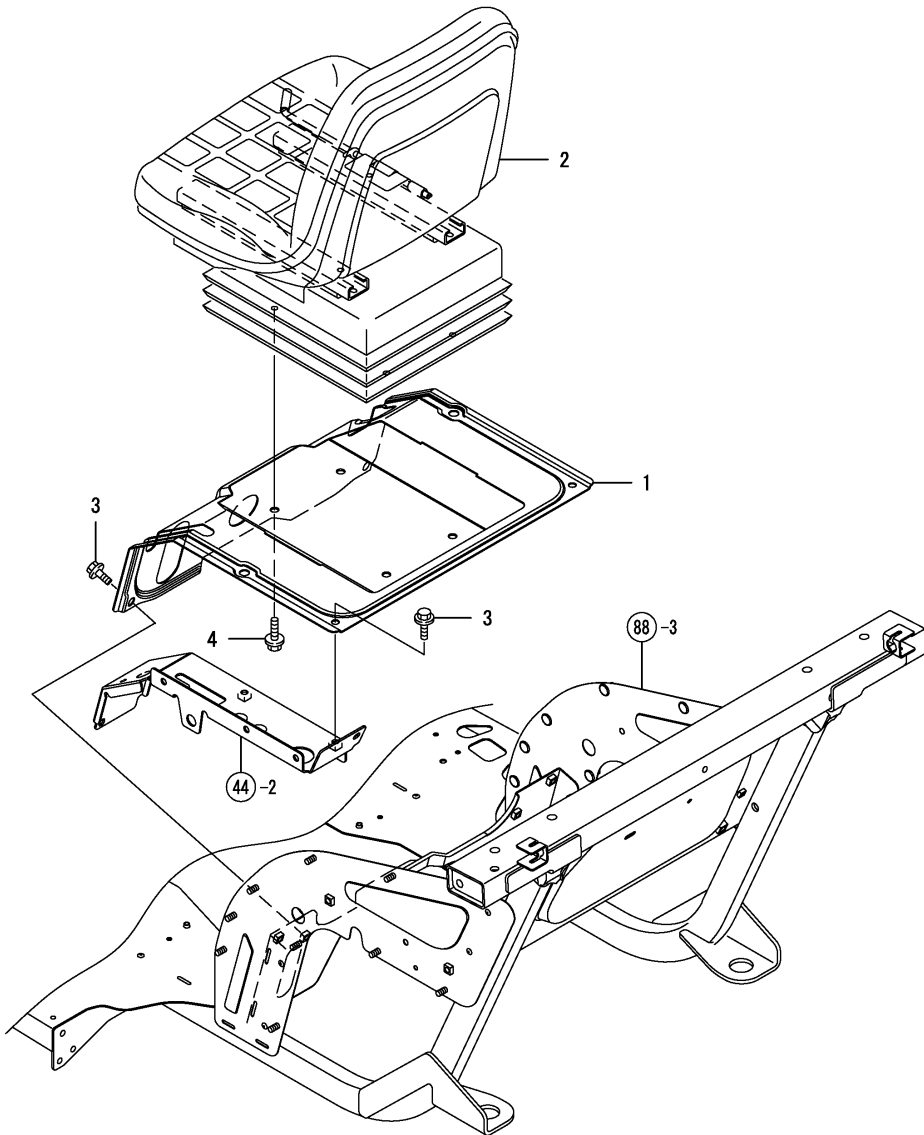


Fig.90. BACK MIRROR

(A)=EF227E

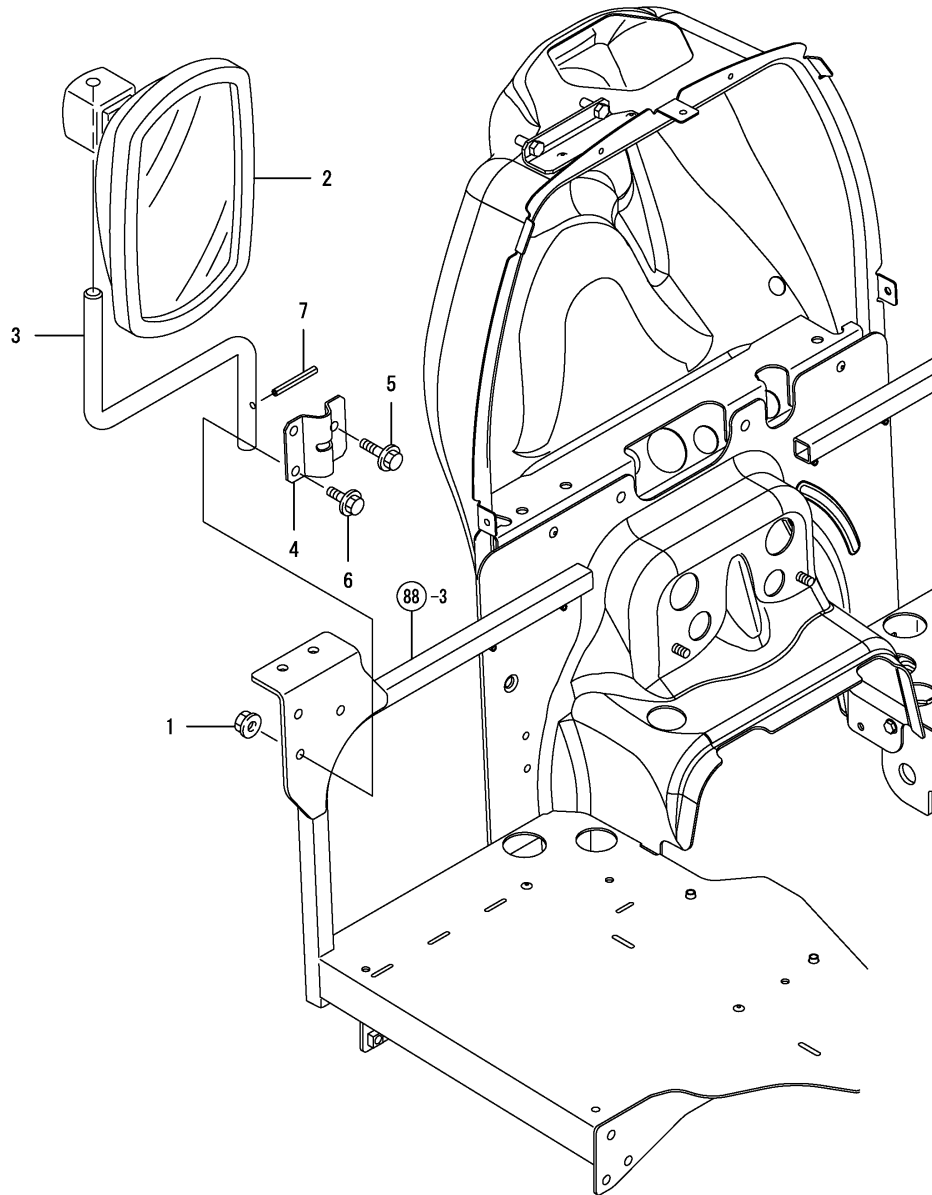
(B)=EF230E

(C)=EF233E

(D)=

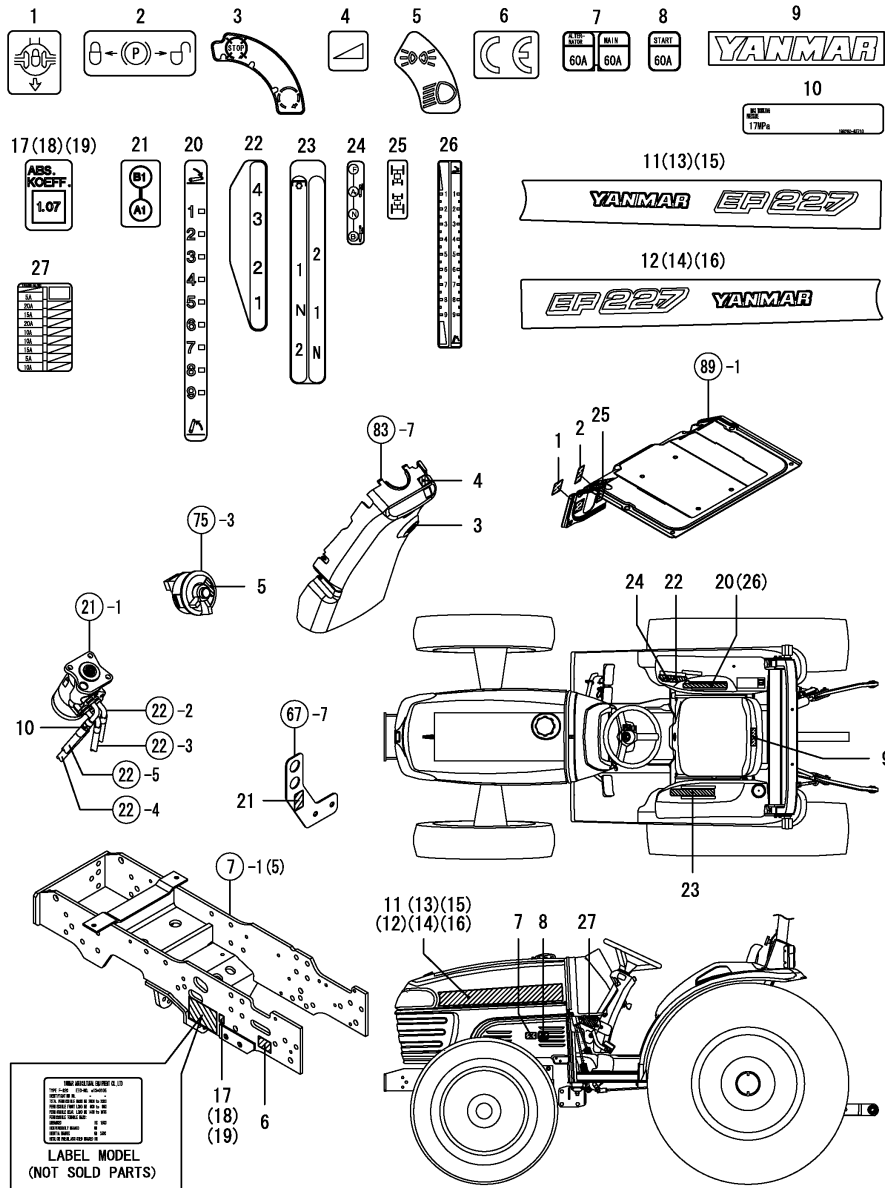
(E)=

(F)=



REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194990-22140	NUT W/WASHER 8	1	1	1					
2	1	1A7100-64110	MIRROR ASSY	1	1	1					
3	1	198280-64120	SHAFT, MIRROR	1	1	1					
4	1	198280-64150	STAY, MIRROR	1	1	1					
5	1	198093-82510	BOLT M8X25,COLLAR	1	1	1					
6	1	198460-83350	BOLT M8X16,BC COLLAR	2	2	2					
7	1	22351-060032	SPRING PIN 6X32	1	1	1					

Fig.91. LABELS



Remarks
(1) FOR TYPE DRAFT

(A)=EF227E
(B)=EF230E
(C)=EF233E

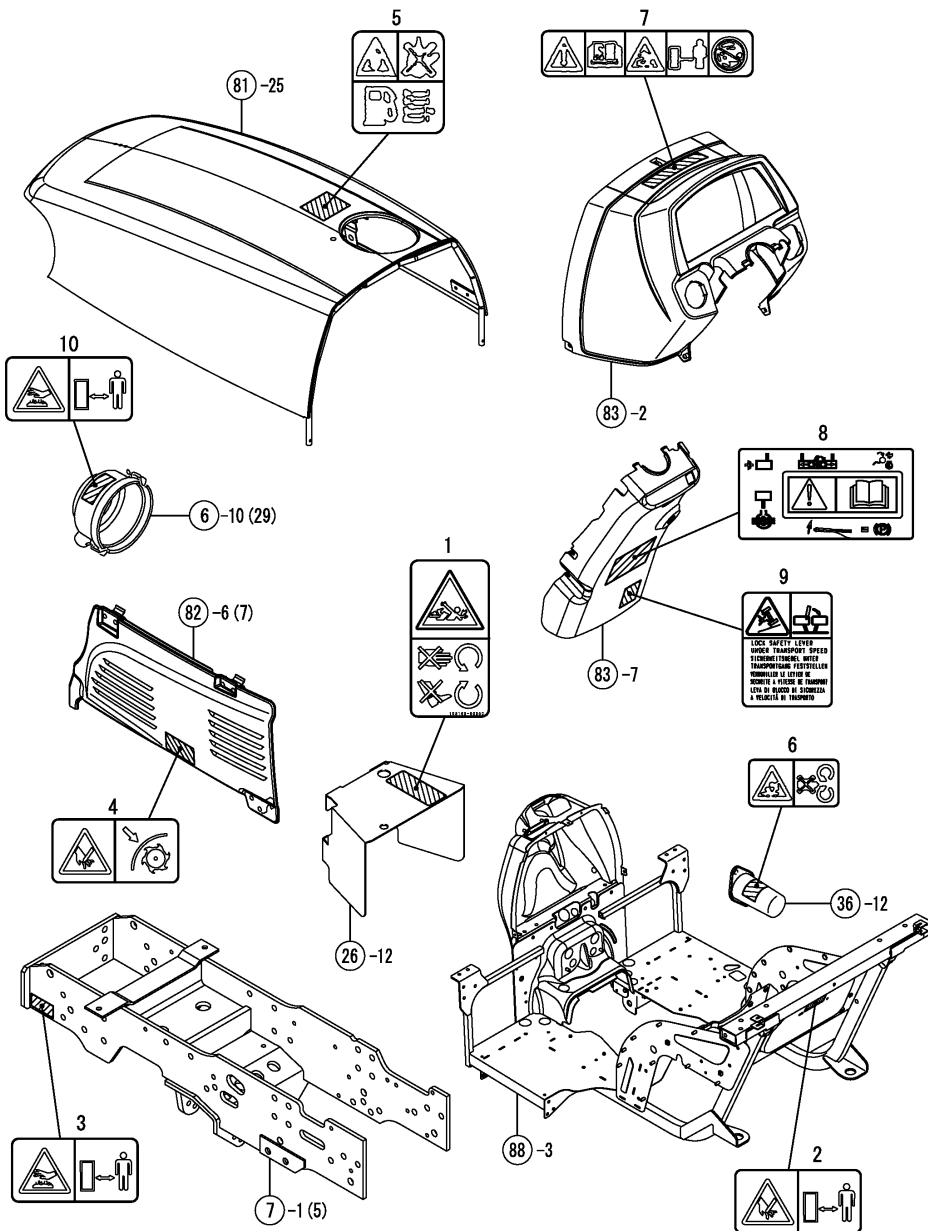
(D)=
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194240-65441	LABEL, DIFF. LOCK	1	1	1					
2	1	198036-65470	LABEL, BRAKE LOCK	1	1	1					
3	1	1A6640-65510	LABEL,KEY SWITCH	1	1	1					
4	1	1A6640-65530	LABEL,THROTTLE	1	1	1					
5	1	198280-65580	LABEL,	1	1	1					
6	1	198165-65590	DECAL,CE	1	1	1					
7	1	198280-65770	LABEL,	1	1	1					
8	1	198280-65790	LABEL,	1	1	1					
9	1	198208-65890	LABEL, ROOF	1	1	1					
10	1	198280-65710	LABEL, H.P. HOSE	4	4	4					
11	1	198280-65110	LABEL, NAME	1							
12	1	198280-65120	LABEL, NAME	1							
13	1	198282-65110	LABEL, NAME		1						
14	1	198282-65120	LABEL, NAME		1						
15	1	198284-65110	LABEL, NAME				1				
16	1	198284-65120	LABEL, NAME				1				
17	1	198280-65570	LABEL,	1							
18	1	198282-65570	LABEL,		1						
19	1	198284-65570	LABEL,				1				
20	1	198280-65510	LABEL, POSITION	1	1	1					
21	1	198280-65640	LABEL,SCV COUPLER	1	1	1					
22	1	198282-65650	LABEL, NAIN SHIFT	1	1	1					
23	1	198282-65670	LABEL, RANGE-PTO	1	1	1					
24	1	198282-65690	LABEL,	1	1	1					
25	1	198221-65740	LABEL, MFWD	1	1	1					
26	1	198282-65520	LABEL, LIFT	1	1	1					1
27	1	198280-65780	LABEL,	1	1	1					

Fig.92. LABELS (SAFETY)

(A)=EF227E
(B)=EF230E
(C)=EF233E

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

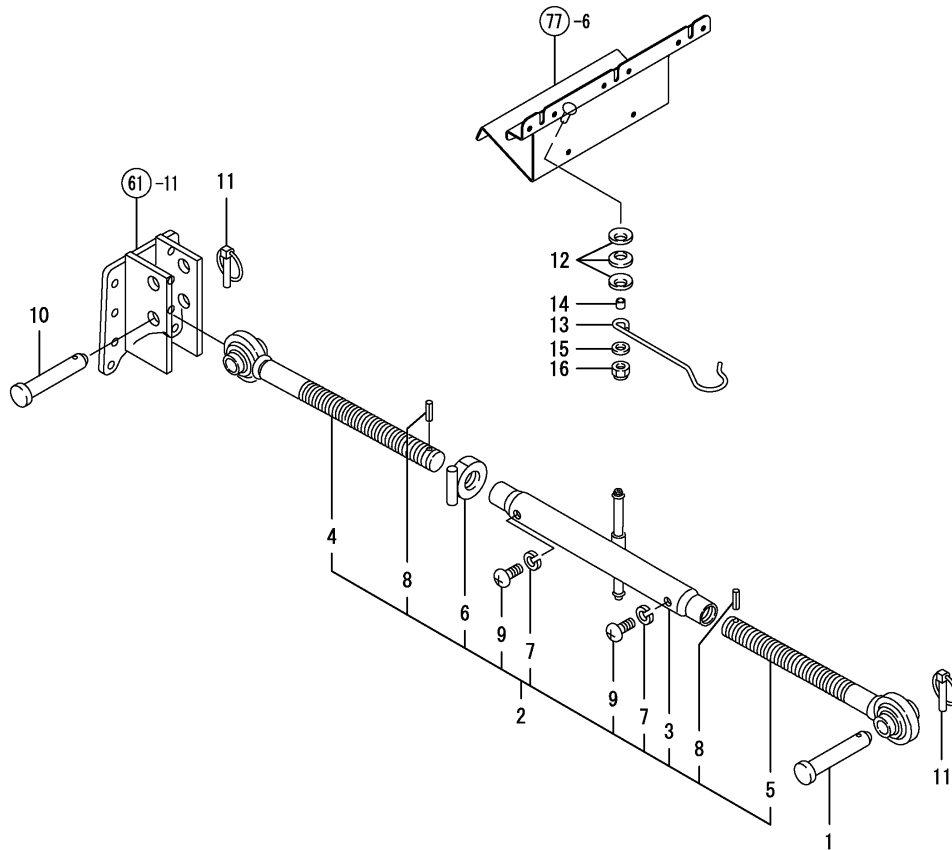


REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198163-65350	DANGER,ROTAT.SHAFT	1	1	1					
2	1	198280-65610	LABEL,3P	1	1	1					
3	1	198163-65930	CAUTION,MUFFLER	1	1	1					
4	1	198163-65940	CAUTION,SAFETY COVER	2	2	2					
5	1	1A6150-91251	LABEL,RAKE CAUTION	1	1	1					
6	1	1A6150-93151	LABEL,COVER	1	1	1					
7	1	198163-65310	LABEL, SAFETY	1	1	1					
8	1	198282-65300	LABEL,OPERATION G	1	1	1					
9	1	198163-65780	LABEL,BRAKE COUPLING	1	1	1					
10	1	198163-65930	CAUTION,MUFFLER	1	1	1					

Fig.93. TOP LINK

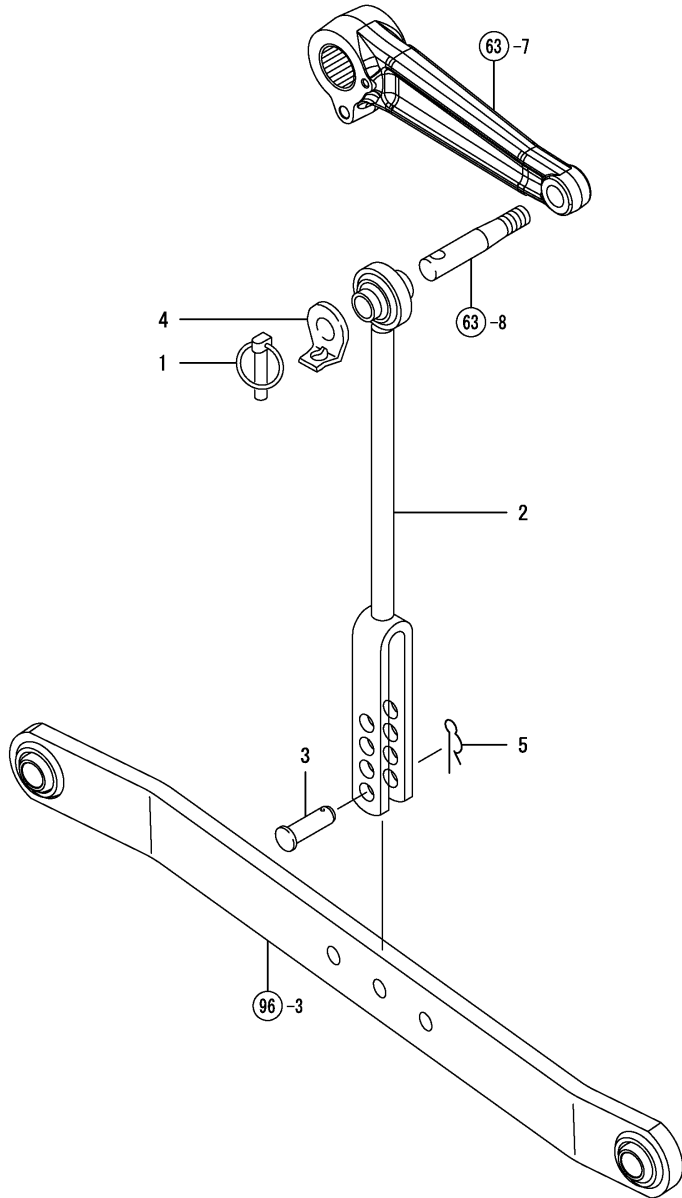
(A)=EF227E
(B)=EF230E
(C)=EF233E

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



REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	195080-15060	PIN, HITCH	1	1	1					
2	1	198220-71100	LINK ASSY, TOP	1	1	1					
3	2	194275-71500	BODY, TOP LINK	1	1	1					
4	2	194145-71600	LINK (R), TOP	1	1	1					
5	2	194145-71700	LINK (L), TOP	1	1	1					
6	2	198092-71750	NUT 24,CMP	1	1	1					
7	2	22217-060000	SPRING WASHER 6	2	2	2					
8	2	22351-040024	SPRING PIN 4X24	2	2	2					
9	2	26557-060062	SCREW M 6X 6	2	2	2					
10	1	194150-71230	PIN, TOP LINK	1	1	1					
11	1	794130-71410	PIN ASSY,BALL SOCKET	2	2	2					
12	1	198072-18320	SPRING 12	3	3	3					
13	1	198280-71710	HOOK, TOP LINK	1	1	1					
14	1	198092-71720	COLLAR, 8.1X10.5X9.3	1	1	1					
15	1	22137-080000	WASHER 8, POLISHED	1	1	1					
16	1	26346-080002	U-NUT M 8 PLATED	1	1	1					

Fig.95. LIFT LINK (L



0CNP4-G43700 95. LIFT LINK (L

(A)=EF227E
(B)=EF230E
(C)=EF233E

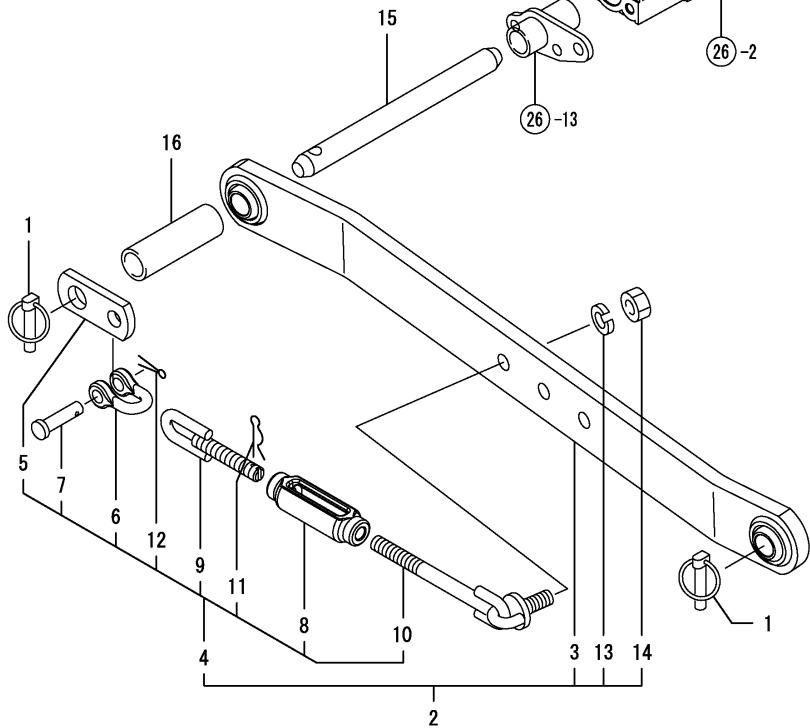
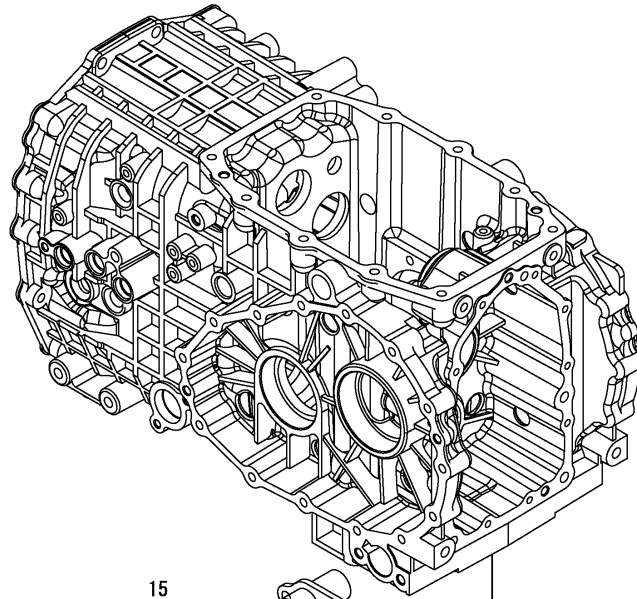
(D)=
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	794130-71410	PIN ASSY,BALL SOCKET	1	1	1					
2	1	198200-72300	LINK ASSY, LIFT L.H.	1	1	1					
3	1	194150-72460	PIN, LIFT YOKE	1	1	1					
4	1	198071-74970	COLLAR,BALL & SOCKET	1	1	1					
5	1	22372-160000	SNAP PIN 16	1	1	1					

Fig.96. LOWER LINK & CHECK CHAIN

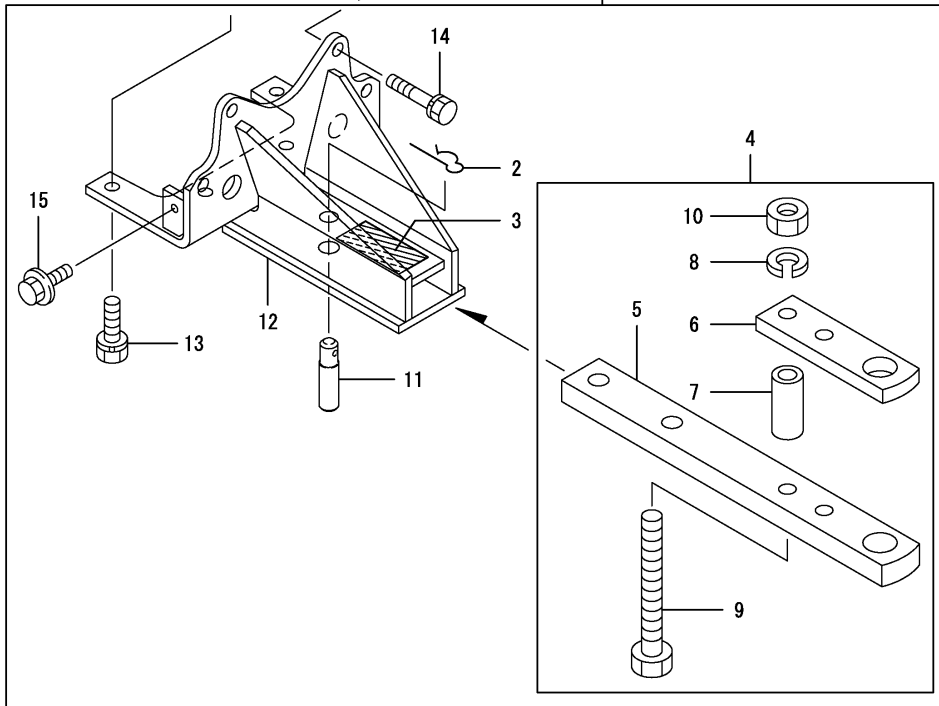
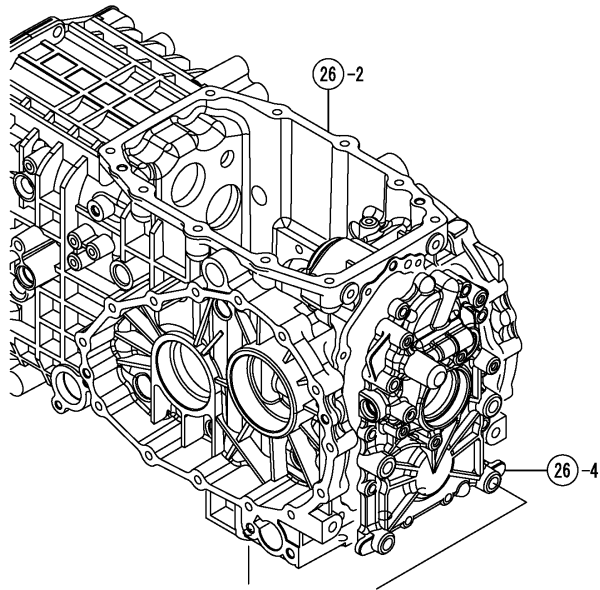
(A)=EF227E
(B)=EF230E
(C)=EF233E

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



REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	794130-71410	PIN ASSY,BALL SOCKET	4	4	4					
2	1	198280-73100	LINK & CHAIN KIT,	2	2	2					
3	2	198280-73500	LINK ASSY, LOWER	2	2	2					
4	2	198280-74100	CHAIN ASSY, CHECK	2	2	2					
5	3	198280-74550	HINGE, CHAIN	2	2	2					
6	3	194080-74621	BODY (SA10), SHACKLE	2	2	2					
7	3	194080-74631	PIN (SA10), SHACKLE	2	2	2					
8	3	198360-74670	TURNBUCKLE, CHAIN	2	2	2					
9	3	198121-74720	BOLT	2	2	2					
10	3	198280-74800	CHAIN,SWAY(R)	2	2	2					
11	3	22360-200000	SNAP PIN 20	2	2	2					
12	3	22417-320320	COTTER PIN 3.2X32	2	2	2					
13	2	22217-140000	SPRING WASHER 14	2	2	2					
14	2	26716-140002	NUT M14	2	2	2					
15	1	198200-73150	PIN, LOWER LINK	2	2	2					
16	1	198200-73210	COLLAR,	2	2	2					

Fig.97. DRAWBAR HITCH



(A)=EF227E
(B)=EF230E
(C)=EF233E

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

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198280-75700	HITCH KIT,DRAWBER	1	1	1					
2	2	195230-17260	PIN 22, SNAP	1	1	1					
3	2	198280-65210	LABEL,	1	1	1					
4	2	198280-75200	DRAWBER ASSY,	1	1	1					
5	3	198280-75210	DRAWBER	1	1	1					
6	3	198280-75250	PLATE,CLEVIS	1	1	1					
7	3	198280-75260	SPACER,CLEVIS	2	2	2					
8	3	22217-160000	SPRING WASHER 16	2	2	2					
9	3	26116-161302	BOLT M16X130 PLATED	2	2	2					
10	3	26716-160002	NUT M16	2	2	2					
11	2	198253-75430	PIN, HITCH	1	1	1					
12	2	198280-75750	BRACKET ASSY,DRAWBER	1	1	1					
13	2	26013-120352	BOLT M12X 35	5	5	5					
14	2	26013-120652	BOLT M12X 65	2	2	2					
15	2	26106-100202	BOLT M10X 20 PLATED	2	2	2					

Fig.98. CONTROL BOX

(A)=EF227E
 (B)=EF230E
 (C)=EF233E

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

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198200-63670	COVER, LEVER GUIDE	1	1	1					

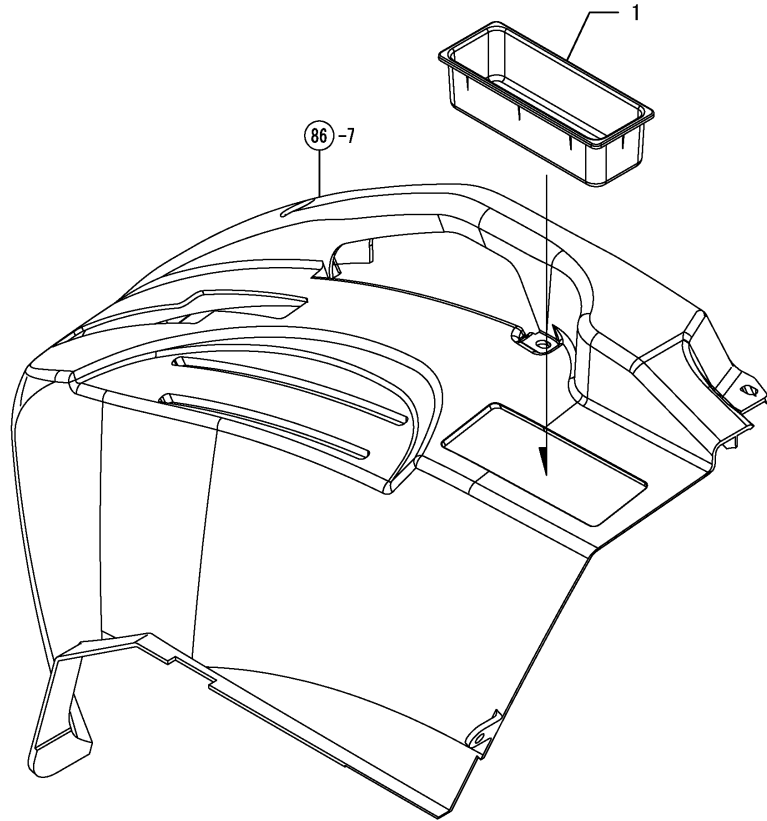
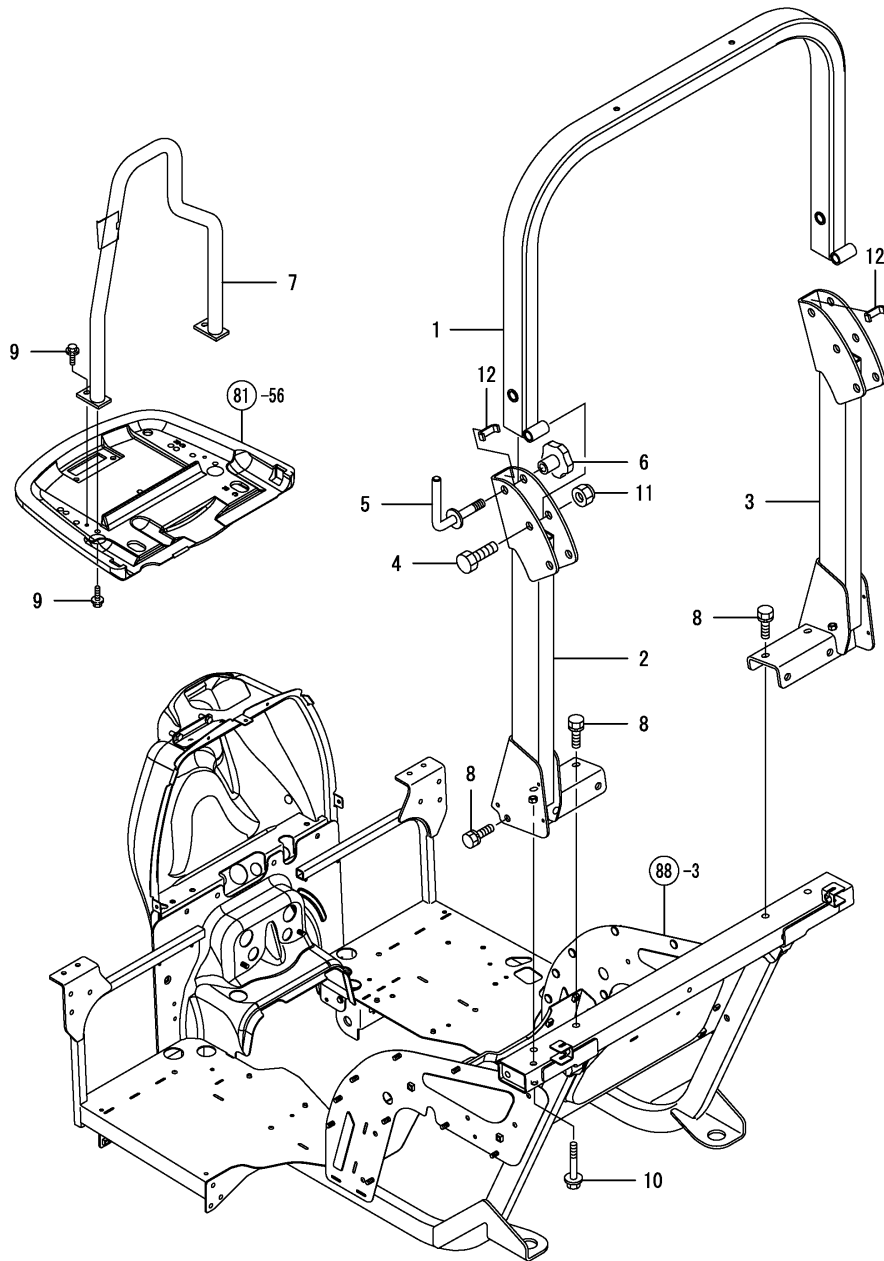


Fig.99. SAFETY FRAME (REAR)

(A)=EF227E
(B)=EF230E
(C)=EF233E

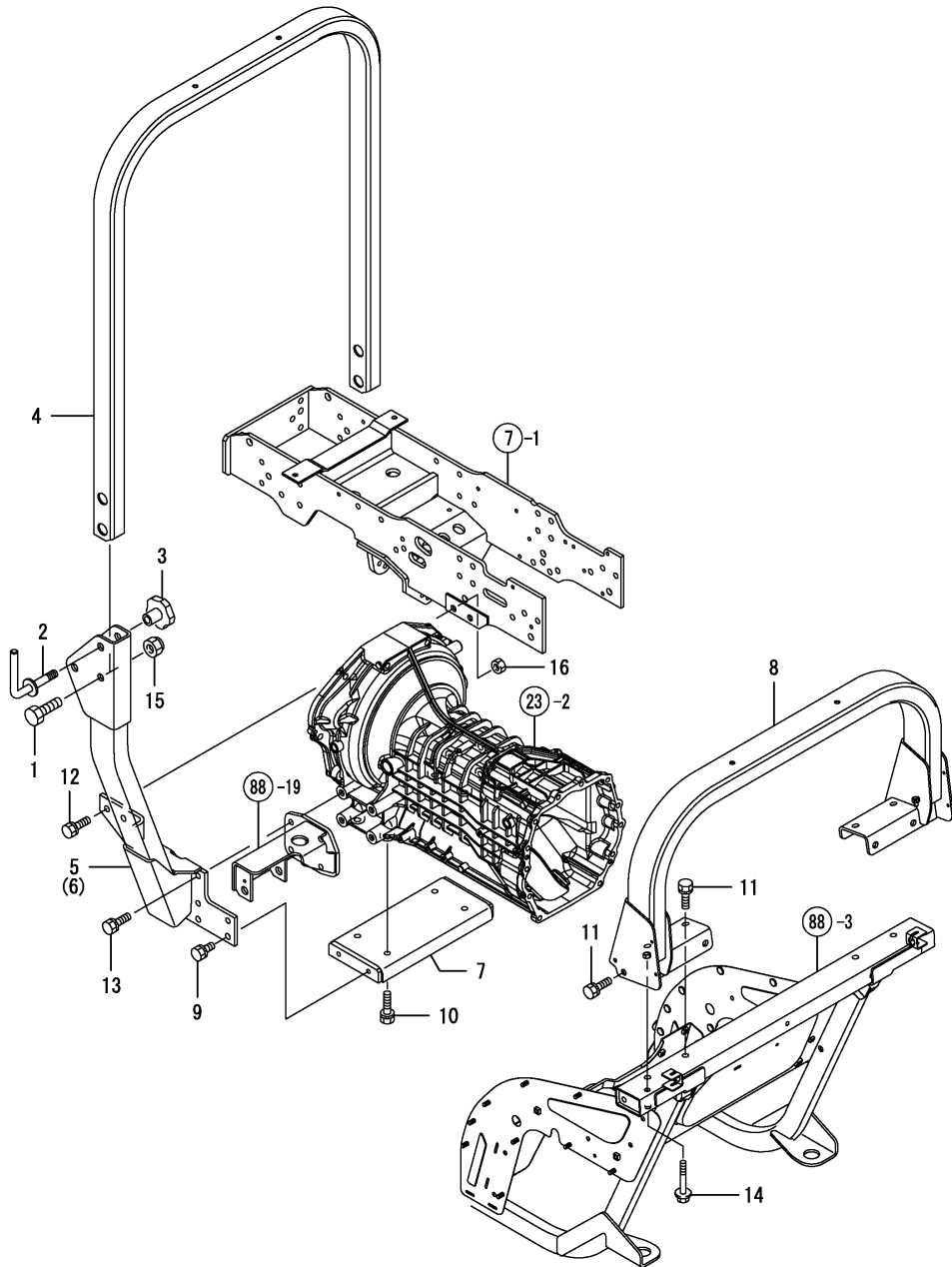
(D)=
(E)=
(F)=



REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198280-85100	FRAME ASSY, UPPER	1	1	1					
2	1	198280-85150	FRAME ASSY, LOW	1	1	1					
3	1	198280-85160	FRAME ASSY, R LOW	1	1	1					
4	1	198200-85400	BOLT, 16 X 85	2	2	2					
5	1	198280-85410	HANDLE ASSY,	2	2	2					
6	1	198163-85630	KNOB M16	2	2	2					
7	1	198280-85710	FRAME ASSY,FRONT	1	1	1					
8	1	26013-120352	BOLT M12X 35	10	10	10					
9	1	26106-080202	BOLT M 8X 20 PLATED	4	4	4					
10	1	26106-100652	BOLT M10X 65 PLATED	2	2	2					
11	1	26356-160002	U-NUT M16	2	2	2					
12	1	198162-61370	SEAL E,LADIATOR	2	2	2					W

(A)=*2008.06.) (B)=*2008.06.) (C)=*2008.06.)

Fig.100. SAFETY FRAME (FRONT



0CNP4-G43700 100. SAFETY FRAME (FRONT

(A)=EF227E

(B)=EF230E

(C)=EF233E

(D)=

(E)=

(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198200-85400	BOLT, 16 X 85	2	2	2					
2	1	198280-85410	HANDLE ASSY,	2	2	2					
3	1	198163-85630	KNOB M16	2	2	2					
4	1	198282-85800	FRAME ASSY,UPPER	1	1	1					
5	1	198282-85820	FRAME L ASSY,MAIN	1	1	1					
6	1	198282-85830	FRAME R ASSY,MAIN	1	1	1					
7	1	198282-85900	PLATE ASSY,UNDER	1	1	1					
8	1	198282-85950	GUARD ASSY, REAR	1	1	1					
9	1	26013-120252	BOLT M12X 25	4	4	4					
10	1	26013-120352	BOLT M12X 35	4	4	4					
11	1	26013-120352	BOLT M12X 35	10	10	10					
12	1	26013-120402	BOLT M12X 40	4	4	4					
13	1	26013-120452	BOLT M12X 45	6	6	6					
14	1	26106-100652	BOLT M10X 65 PLATED	2	2	2					
15	1	26356-160002	U-NUT M16	2	2	2					
16	1	26716-120002	NUT 12	4	4	4					

Fig.101. ACCESSORIES

(A)=EF227E
(B)=EF230E
(C)=EF233E

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

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	41812-012020	MANUAL, OPERATOR	1	1	1					

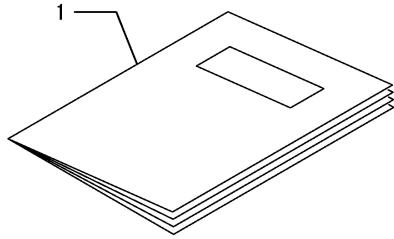


Fig.102. LOCK PIN

(A)=EF227E
(B)=EF230E
(C)=EF233E

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

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198280-11710	LOCK PIN KIT	1	1	1					
2	2	198280-11240	PIN, LOCK	1	1	1					
3	3	194250-11140	SPRING	1	1	1					
4	3	198280-11250	PIN	1	1	1					
5	2	22137-160000	WASHER 16,POLISHED	3	3	3					
6	2	22360-160000	SNAP PIN 16	2	2	2					

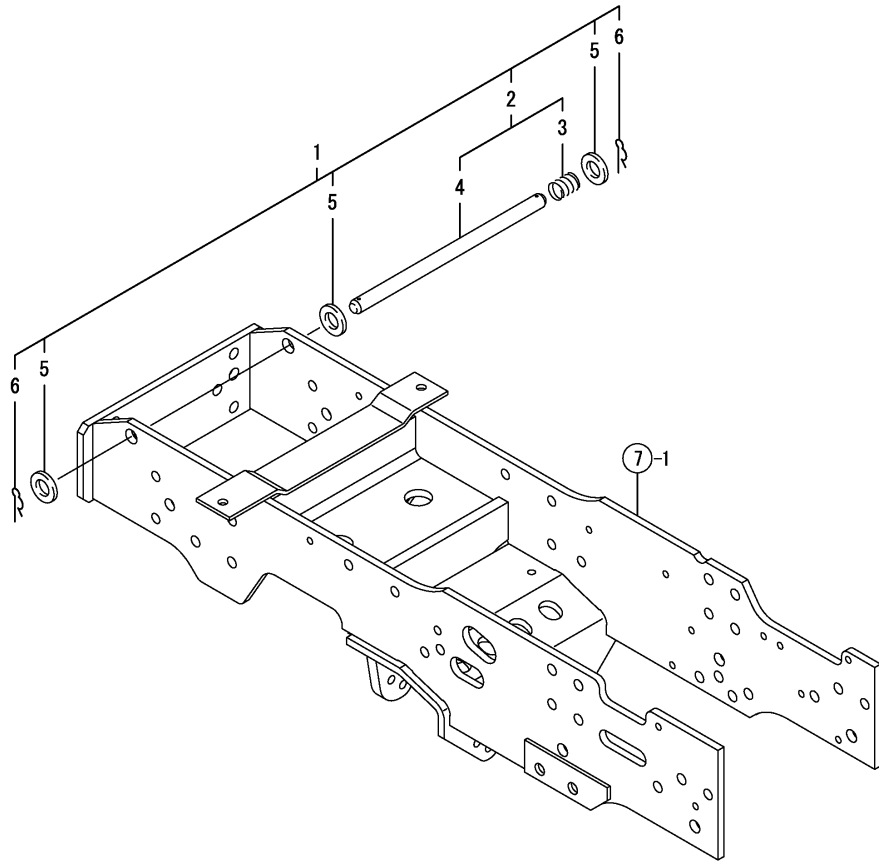
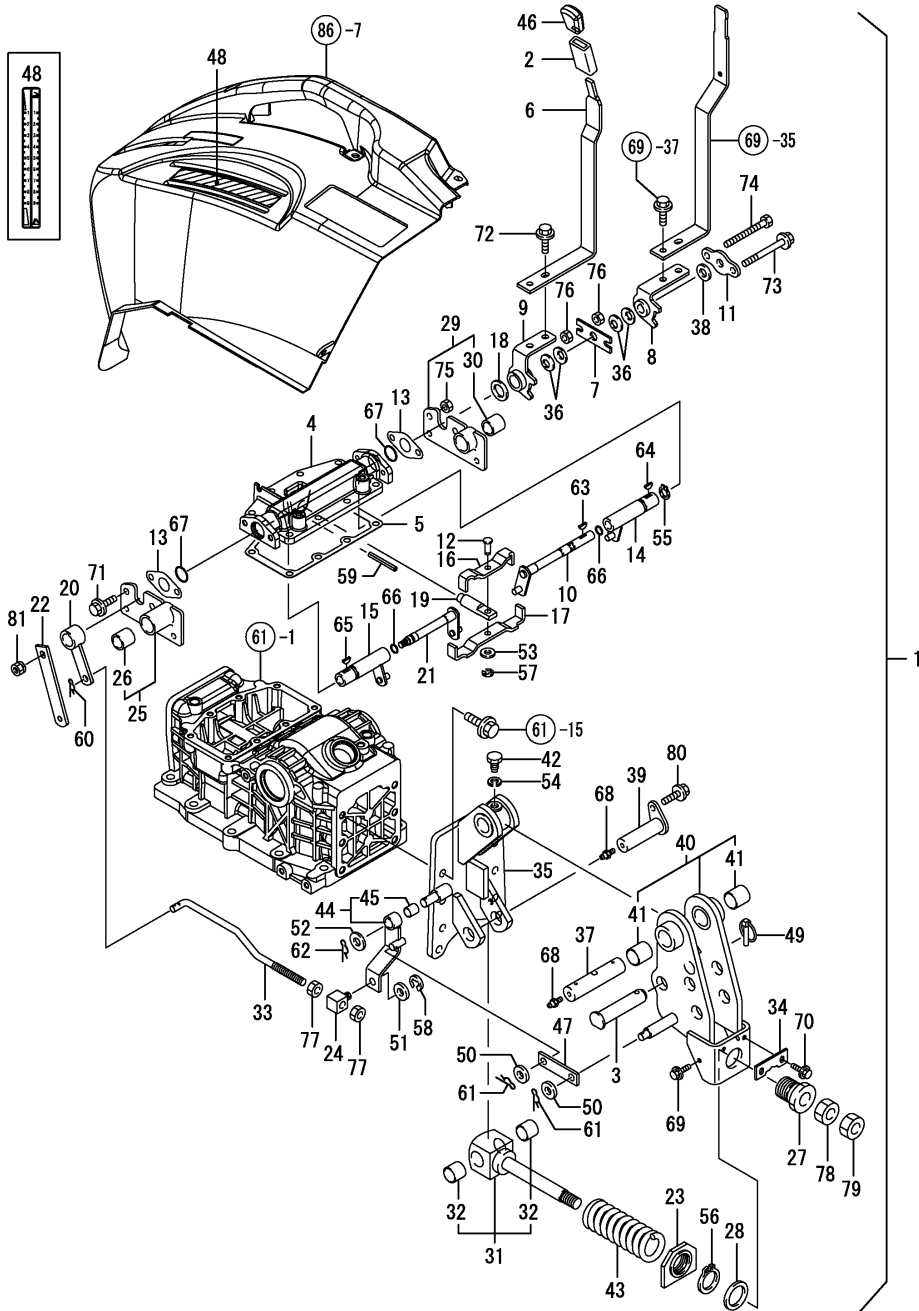


Fig.103. DRAFT CONTROL



(A)=EF227E
(B)=EF230E
(C)=EF233E

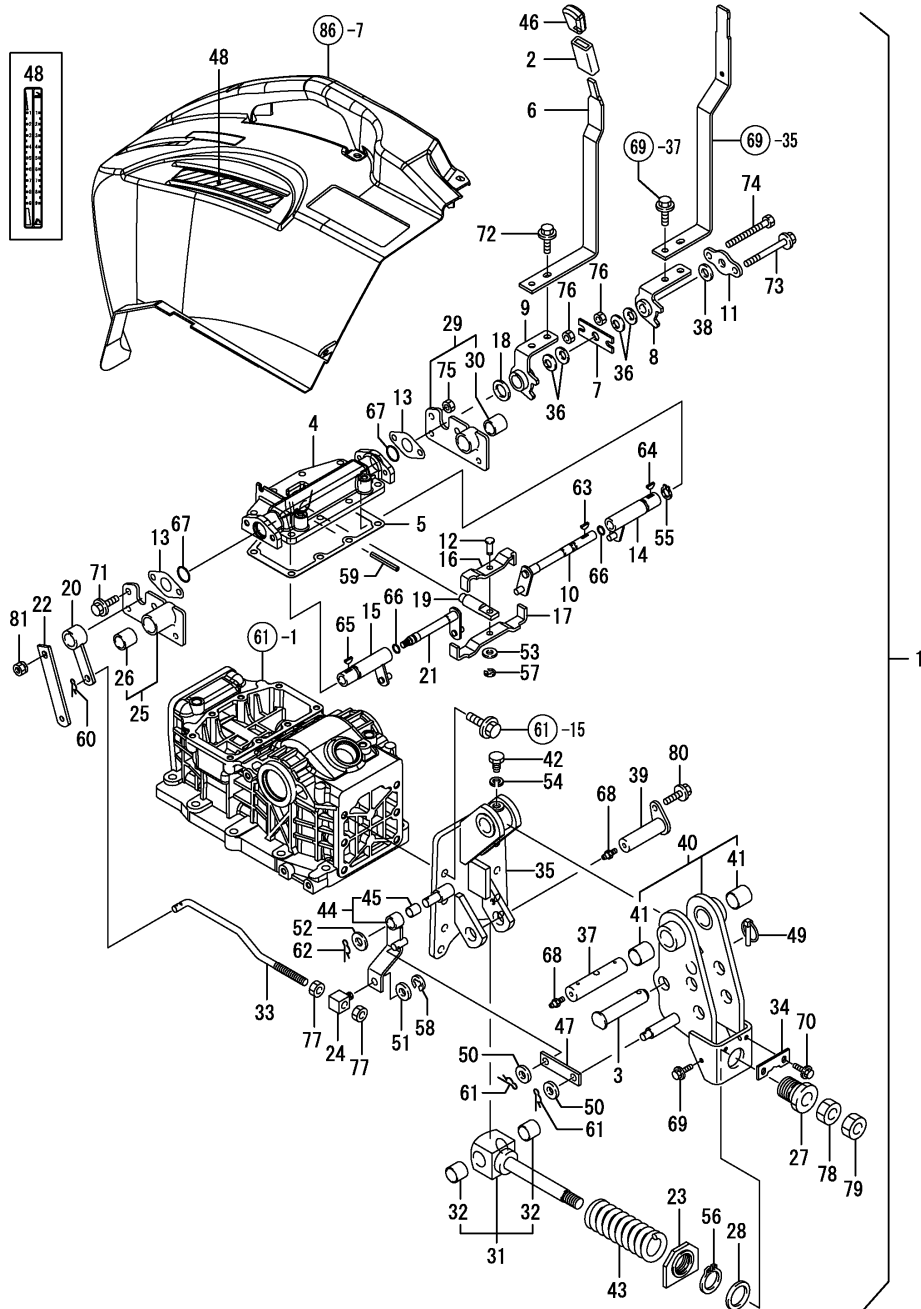
(D)=
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198287-47100	DRAFT CONTROL KIT	1	1	1					
2	2	174845-27700	BOOT, SHAFT	1	1	1					
3	2	195385-27810	PIN 19X80	1	1	1					
4	2	198200-42150	HOUSING, LINK	1	1	1					
5	2	198200-42190	GASKET, LINK HOUSING	1	1	1					
6	2	198200-47120	LEVER, AUTO	1	1	1					
7	2	198287-47150	PLATE, GUIDE	1	1	1					
8	2	198287-47210	ARM, P LEVER	1	1	1					
9	2	198200-47250	ARM, AUTO LEVER	1	1	1					
10	2	198287-47310	SHAFT, P LEVER	1	1	1					
11	2	194170-47320	PLATE	1	1	1					
12	2	198431-47340	PIN,CONTROL	1	1	1					
13	2	194555-47350	PLATE	2	2	2					
14	2	198287-47360	SHAFT, D LEVER	1	1	1					
15	2	198287-47390	SHAFT, D FEEDBACK	1	1	1					
16	2	198200-47411	LINK, P CONTROL	1	1	1					
17	2	198200-47431	LINK, D CONTROL	1	1	1					
18	2	194170-47440	PLATE, FRICTION	1	1	1					
19	2	198200-47460	ROD, CONTROL	1	1	1					
20	2	198287-47470	ARM,D FEEDBACK	1	1	1					
21	2	198200-47500	SHAFT, P FEEDBACK	1	1	1					
22	2	198200-47510	ARM, P FEEDBACK	1	1	1					
23	2	198287-47510	HOLDER,SPRING	1	1	1					
24	2	194550-47530	ADJUSTER	1	1	1					
25	2	198280-47550	STAY ASSY,P BRAKE	1	1	1					
26	3	24550-020200	BUSH 20X20,DRY	1	1	1					
27	2	198287-47550	BOLT,ADJUST	1	1	1					
28	2	198287-47570	SPACER	1	1	1					
29	2	198280-47580	STAY ASSY,P BRAKE	1	1	1					
30	3	24550-020200	BUSH 20X20,DRY	1	1	1					
31	2	198287-47600	BOLT ASSY, SET	1	1	1					
32	3	194640-47720	BUSH 20X23X20	2	2	2					
33	2	198287-47660	ROD,FEEDBACK	1	1	1					
34	2	198287-47680	PLATE,	1	1	1					
35	2	198287-47720	SUPPORT,HING	1	1	1					
36	2	194151-47760	WASHER 12	4	4	4					
37	2	194320-47760	PIN 22	1	1	1					
38	2	194310-47790	PLATE, FRICTION	1	1	1					
39	2	194640-47790	PIN, HINGE	1	1	1					
40	2	198287-47800	HING ASSY,	1	1	1					
41	3	194190-11520	BUSH 25X25	2	2	2					
42	2	194320-47860	BOLT	1	1	1					
43	2	198172-47890	SPRING	1	1	1					
44	2	198287-47900	LINK ASSY,D	1	1	1					
45	3	24550-012150	BUSH 12X15	1	1	1					
46	2	194273-47910	KNOB	1	1	1					
47	2	198287-47960	PLATE,LINK	1	1	1					
48	2	198282-65520	LABEL, LIFT	1	1	1					
49	2	194180-72950	PIN ASSY, LOCK	1	1	1					
50	2	22117-100000	WASHER 10	2	2	2					
51	2	22117-100000	WASHER 10	1	1	1					

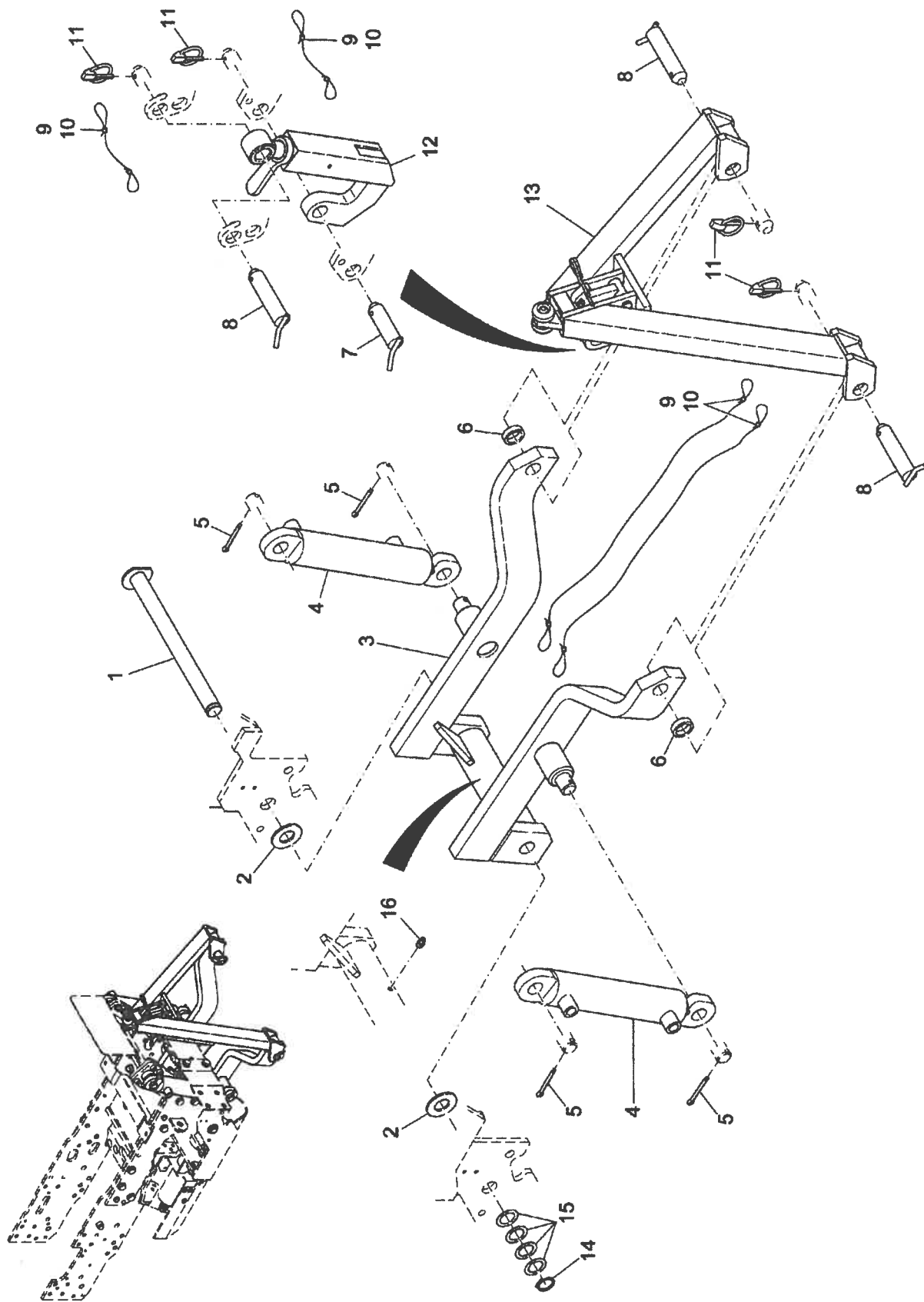
Fig.103. DRAFT CONTROL

(A)=EF227E
(B)=EF230E
(C)=EF233E

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

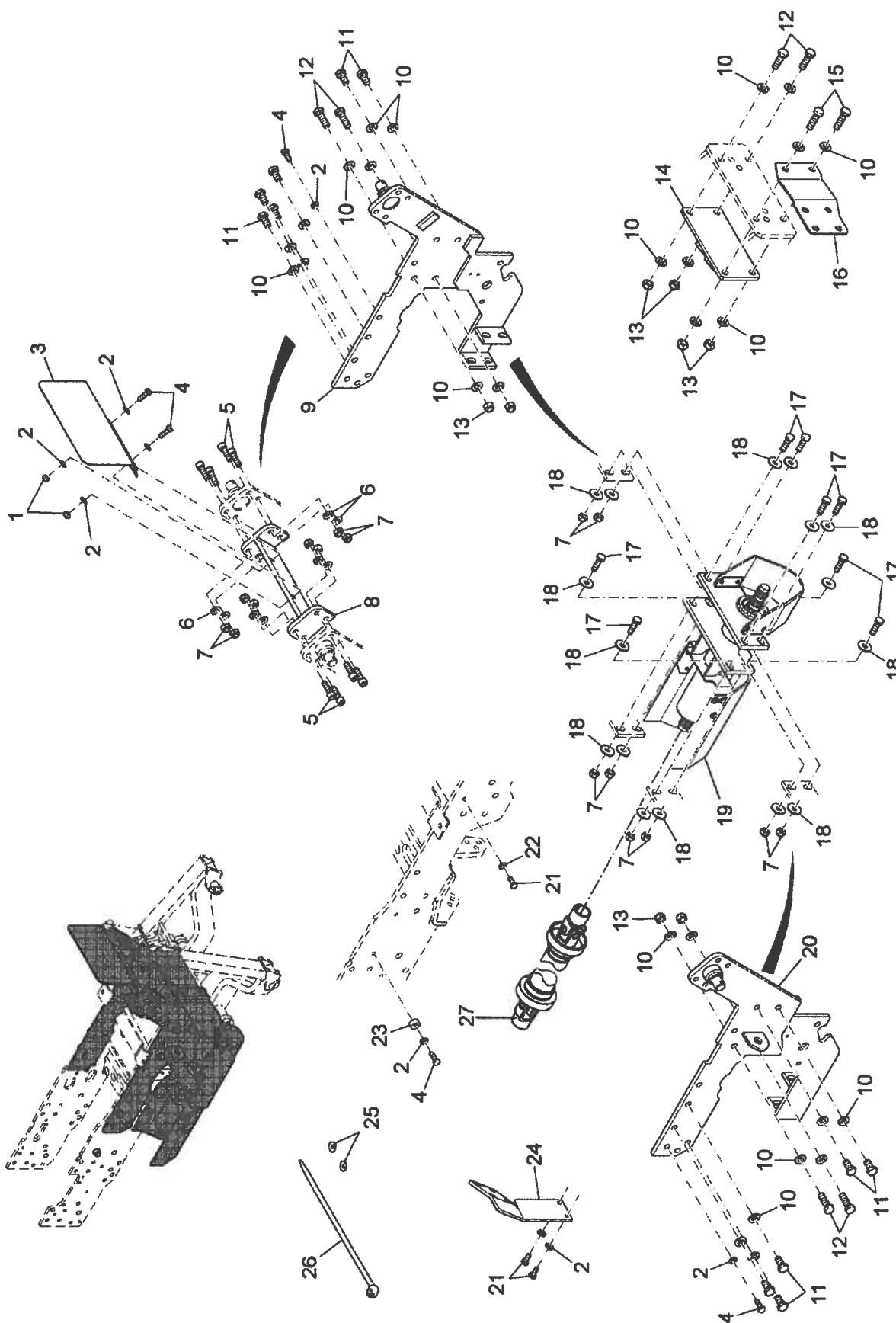


REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
52	2	22117-120000	WASHER 12	1	1	1					
53	2	22137-080000	WASHER 8, POLISHED	1	1	1					
54	2	22217-100000	SPRING WASHER 10	1	1	1					
55	2	22242-000120	CIRCLIP 12	1	1	1					
56	2	22242-000300	CIRCLIP 30	1	1	1					
57	2	22272-000060	CIRCLIP E- 6	1	1	1					
58	2	22272-000070	CIRCLIP E- 7	1	1	1					
59	2	22351-060050	SPRING PIN 6X50	1	1	1					
60	2	22372-080000	SNAP PIN (JASO 8)	1	1	1					
61	2	22372-100000	SNAP PIN 10	2	2	2					
62	2	22372-100000	SNAP PIN 10	1	1	1					
63	2	22522-030130	WOODRUFF KEY 3X13	1	1	1					
64	2	22522-030130	WOODRUFF KEY 3X13	1	1	1					
65	2	22522-030130	WOODRUFF KEY 3X13	1	1	1					
66	2	24311-000090	O-RING 1A P-9.0	2	2	2					
67	2	24311-000200	O-RING 1A P-20.0	2	2	2					
68	2	24761-010000	NIPPLE M6F, GREASE	2	2	2					
69	2	26106-060102	BOLT 6X 10 PLATED	2	2	2					
70	2	26106-060122	BOLT M 6X 12 PLATED	2	2	2					
71	2	26106-080162	BOLT M 8X 16 PLATED	2	2	2					
72	2	26106-080162	BOLT M 8X 16 PLATED	2	2	2					
73	2	26106-080752	BOLT M 8X 75 PLATED	1	1	1					
74	2	26116-080754	BOLT M 8X 75 PLATED	1	1	1					
75	2	26716-080002	NUT M 8	2	2	2					
76	2	26716-080002	NUT M 8	2	2	2					
77	2	26716-100002	NUT 10	2	2	2					
78	2	26716-160002	NUT M16	1	1	1					
79	2	26756-160002	LOCK NUT M16 PLATED	1	1	1					
80	2	26106-080102	BOLT M 8X 10 PLATED	1	1	1					
81	2	194990-22050	NUT W/WASHER 8	1	1	1					



Pos	Ersatzteilnummer	Materialnummer	Benennung	Menge

1	01183570	96718754	Bolzen	1
2	01183510	90764259	Scheibe	2
3	01183560	96718002	Unterenker	1
4	01181980	90801135	Hydraulikzylinder	2
5	00027880	13280342	Splint	4
6	00921130	90160862	Ring	2
7	01043640	96710223	Steckbolzen	1
8	00921340	96034202	Steckbolzen	3
9	00500220	17523010	Pressklemme	8
10	00500210	22104038	Rundlitzenseil	1
11	00710090	13850078	Klappstecker	4
12	99351800BT20-1		Oberlenker	1
13	01031610	97708788	Kuppeldreieck	1
14	00125360	12610051	Sicherungsring	1
15	00694780	12335493	Pass-Scheibe	4
16	00025910	15715014	Kegelschmiemippel	1



Pos	Ersatzteilnummer	Materialnummer	Benennung	Menge

1	00051510	12040051	6kt.Mutter	2
2	00053750	12310041	Scheibe	7
3	01183540	90803602	Kennzeichenhalter	1
4	00053100	11038247	6kt.Schraube	5
5	XXXXXXXX		noch keine ET-Nummer vergeben	8
6	00053760	12310058	Scheibe	8
7	00132880	12040200	6kt.Mutter	16
8	01183580	96718937	Traverse, kpl.	1
9	01183490	96717970	Flansch links	1
10	00053770	12310066	Scheibe	27
11	00053190	11038460	6kt.Schraube	11
12	00053220	11038494	6kt.Schraube	6
13	00051490	12040077	6kt.Mutter	8
14	01183550	96717897	Flansch Oberlenker	1
15	00121060	11038502	6kt.Schraube	2
16	01183520	90799248	Halter vorn	1
17	00123690	11038387	6kt.Schraube	8
18	00046520	12332037	Scheibe	16
19	01185010	97714265	Gelenkwellenlager	1
20	01183500	96717988	Flansch rechts	1
21	00053090	11038213	6kt.Schraube	3
22	00740310	12520029	Sperrkantscheibe	1
23	01183530	90803545	Buchse	1
24	01183690	90802950	Halteplatte	1
25	00042900	12332029	Scheibe	2
26	00967760	90156688	Kabelbinder	20
27	01182470	90809823	Gelenkwelle	1

Part Number Index

All parts are stipulated in the order of part numbers.

(Depending on the area in which the part is used.)

This index will display the location of the part according to each part number.

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198200-24320	28	1
198200-24410	28	2
198200-24420	28	3
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198200-25210	30	2
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198200-28061	42	17
198200-28080	42	18
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198200-32320	49	13
198200-32600	50	1
198200-32630	50	3
198200-32660	50	4
198200-32731	50	6
198200-33111	51	1
198200-33150	51	3
198200-33250	51	10
198200-33410	52	1
198200-33420	52	2
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	62	1
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198200-63670	98	1
198200-65010	81	68
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	100	1
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198206-62111	85	3
198208-01410	1	42
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198208-01480	1	43
198208-01510	1	44
198208-03111	3	8
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198208-11210	7	6
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198208-11310	7	8
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198280-04470	5	26
198280-05510	3	2
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198280-06410	6	14
198280-11100	7	1
198280-11240	102	2
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198280-62640	88	18
198280-62850	88	19
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198280-64150	90	4
198280-65110	91	11
198280-65120	91	12
198280-65210	97	3
198280-65510	91	20
198280-65570	91	17
198280-65580	91	5
198280-65610	92	2
198280-65640	91	21
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198280-73500	96	3
198280-74100	96	4
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198280-75250	97	6
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198282-27580	41	6
198282-27590	41	7
198282-27740	43	3
198282-27780	43	5
198282-27800	44	1
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198282-27960	42	7
198282-27970	42	9
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198282-28410	47	4
198282-28430	47	5
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198282-28460	48	1
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198535-52140	73	8
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1A6640-65530	91	4
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1A7100-53400	77	4
1A7100-53420	77	5
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1A7260-46640	64	80
1A7260-46650	64	81
1A7260-60890	81	20
1A7335-52120	75	17
1A7600-27310	45	3
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1A8115-11220	7	7 -1
1A8115-61620	83	3 -1
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1D2180-22130	29	1
1E6102-83230	74	9
1E6102-84970	4	19
1E6190-54080	11	2
	29	4
1E6680-66470	27	4
	72	10
1E6760-74150	88	4
1E8050-05510	5	1
1S6489-63330	44	4
		6
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41812-012020	101	1
794130-71410	93	11
	94	1
	95	1
	96	1



YANMAR CO.,LTD.



PARTS CATALOG

Published 2009/10 (Oct.)

0CNP4-G31900

Directions for the Parts Catalog.

1. The parts stipulated in this Parts Catalog are not necessarily standard equipped parts.
2. Parts may change without prior notice.
3. The following is an example of the Parts Catalog format.

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(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 Mark

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

Symbol	Interchangeability	Contents note
N	Old $\begin{matrix} \leftarrow \text{Yes} \\ \text{No} \rightarrow \end{matrix}$ New	New Part is interchangeable for Old Part but Old Part is not interchangeable for New Part.
Q	Old $\begin{matrix} \leftarrow \text{No} \\ \text{Yes} \rightarrow \end{matrix}$ New	New Part is not interchangeable for Old Part but Old Part is interchangeable for New Part.
R	Old $\begin{matrix} \leftarrow \text{Yes} \\ \text{Yes} \rightarrow \end{matrix}$ New	New/ Old Parts are both interchangeable.
S	Old $\begin{matrix} \leftarrow \text{No} \\ \text{No} \rightarrow \end{matrix}$ New	New/ Old Parts are both not interchangeable.
W		Part discontinued.
Z		Part newly added.
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)	Date

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

Note 2) " XXX " 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 Mark

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.

CONTENTS

MODEL : 3TNV82A-NRE(N4322

PC NO : 0CNP4-G31900

Fig.No. GROUP NAME

ENGINE SECTION

1. CYLINDER BLOCK
2. GEAR HOUSING
3. MOUNTING FLANGE & OIL SUMP
4. CYLINDER HEAD & BONNET
5. SUCTION MANIFOLD
6. EXHAUST MANIFOLD & SILENCER
7. CAMSHAFT & DRIVING GEAR
8. CRANKSHAFT & PISTON
9. HYDRAULIC PUMP
10. LUB.OIL SYSTEM
11. COOLING WATER SYSTEM
12. FUEL INJECTION PUMP
13. FUEL INJECTION VALVE
14. STARTING MOTOR
15. GENERATOR

Fig.No. GROUP NAME

Fig.1. CYLINDER BLOCK

(A)=3TNV82A-NRE

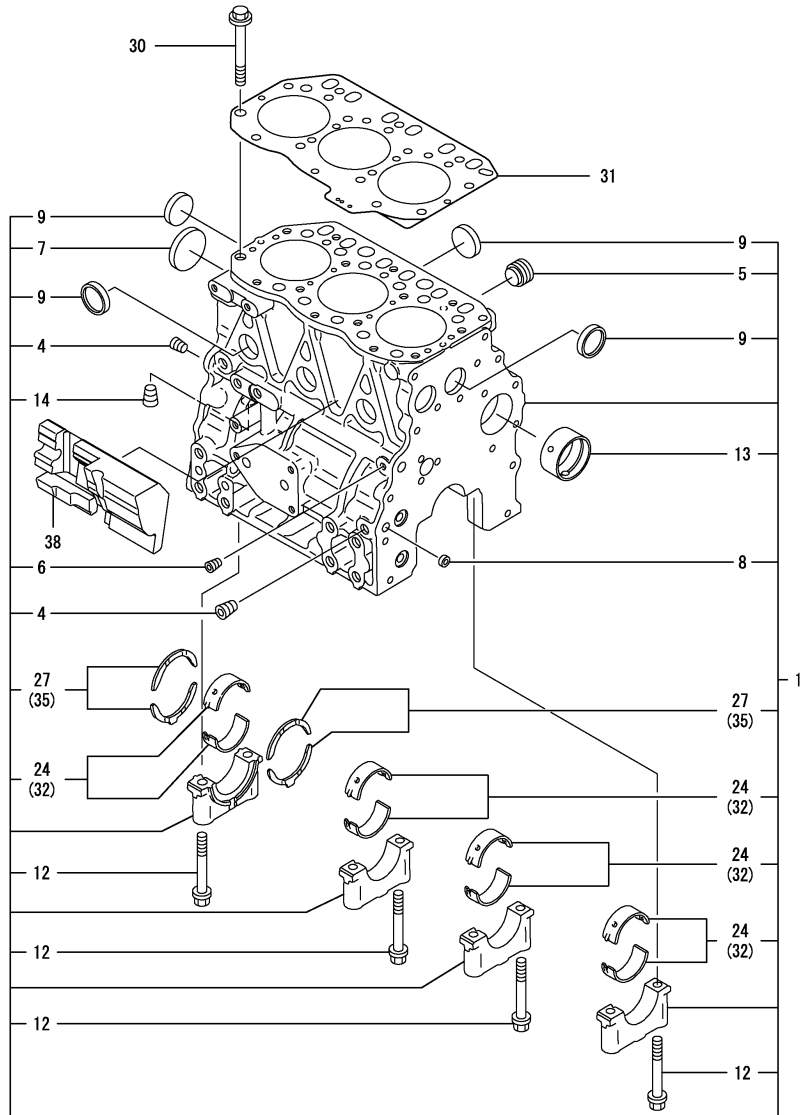
(B)=

(C)=

(D)=

(E)=

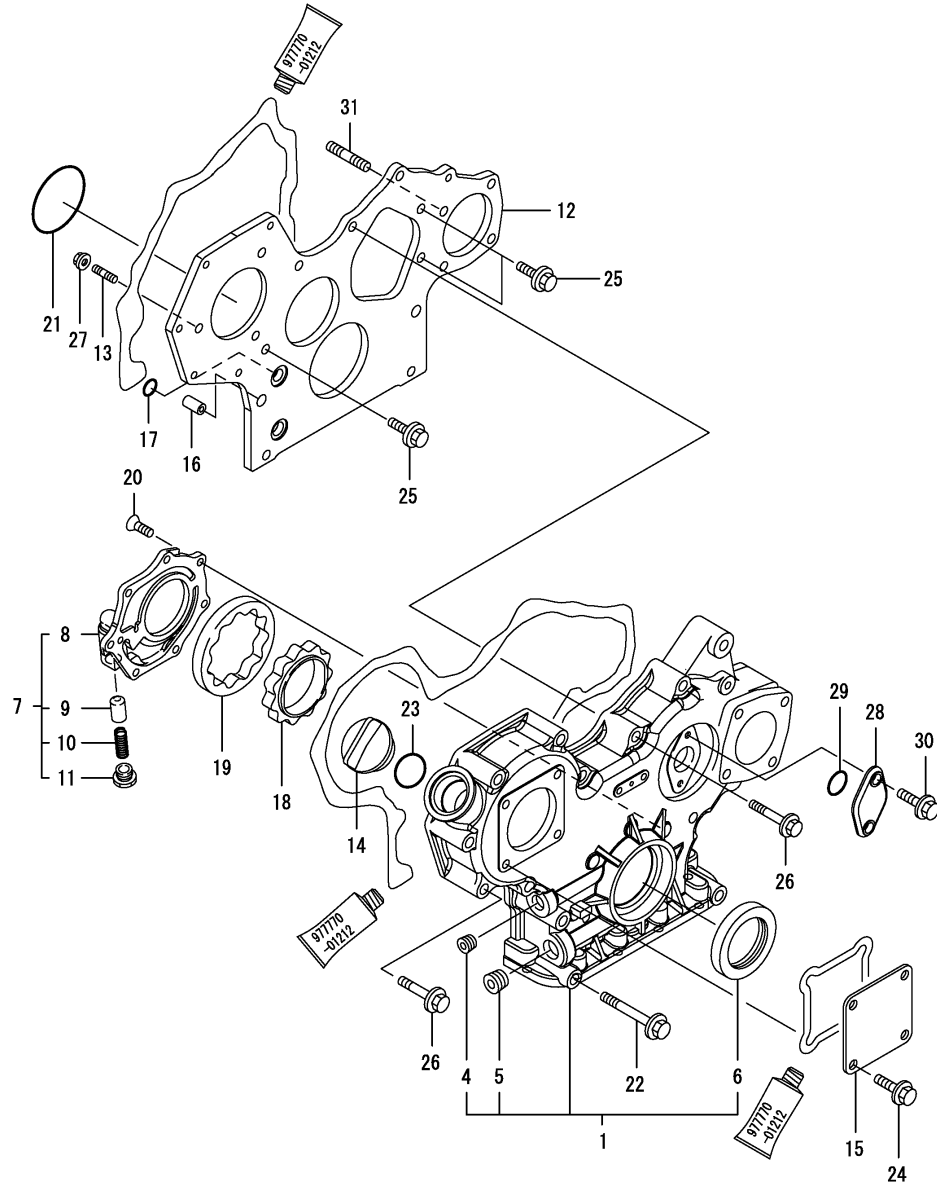
(F)=



REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719802-01560	BLOCK ASSY, CYLINDER	1							
4	2	124160-01910	PLUG PT1/4	2							
5	2	171051-01921	PLUG	1							
6	2	124060-01050	PLUG PT1/8	1							
7	2	129001-01250	PLUG 50	1							
8	2	27241-120000	PLUG 12	2							
9	2	27241-300000	PLUG 30	6							
12	2	119620-02020	BOLT	8							
13	2	129795-02411	BUSH, CAMSHAFT	1							
14	2	124160-01910	PLUG PT1/4	1							
24	2	719810-02980	METAL, MAIN (STD)	4							3
27	2	119810-02930	BEARING,THRUST (4PIE	1							
30	1	119810-01200	BOLT, CYL. HEAD	14							
31	1	119812-01330	GASKET, HEAD	1							
32	1	119810-02870	MAIN BEARING US=0.25	4							1
35	1	119810-02940	BEARING,THRUST .25OS	2							2
38	1	119802-01190	SPACER	1							

Remarks
 (1) UNDER-SIZE(U.S=0.25)PART.
 (2) OVER-SIZE(O.S=0.25)PART.
 (3) REPAIR PART.
 (REMARKS)"EFFECTIVE MACHINE NO." OF
 ENGINE IS INDICATED ON THE
 ENGINE LABEL WHICH IS SHOWN
 IN FIG.4.

Fig.2. GEAR HOUSING



Remarks
 (REMARKS)"EFFECTIVE MACHINE NO." OF
 ENGINE IS INDICATED ON THE
 ENGINE LABEL WHICH IS SHOWN
 IN FIG.4.

OCNP4-G31900 2. GEAR HOUSING

(A)=3TNV82A-NRE

(B)=

(C)=

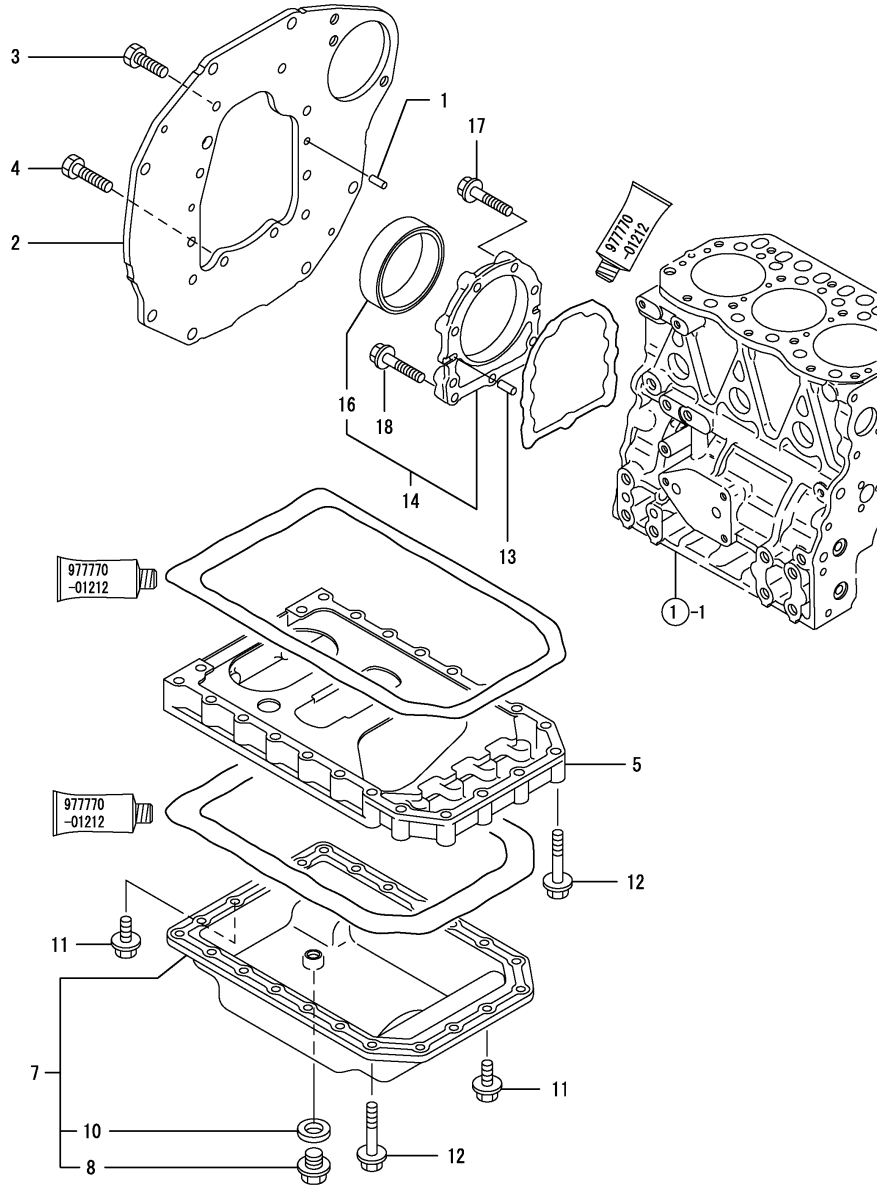
(D)=

(E)=

(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729004-01500	HOUSING ASSY, GEAR	1							
4	2	23876-030000	PLUG PT3/8,SCREW	1							
5	2	23876-040000	PLUG PT 1/2	1							
6	2	129795-01800	SEAL, OIL	1							
7	1	119802-32100	COVER ASSY, PUMP	1							
8	2	119802-32070	COVER, LUB.OIL PUMP	1							
9	2	129900-32130	VALVE, RELIEF	1							
10	2	129418-32320	SPRING	1							
11	2	129001-32330	PLUG	1							
12	1	129004-01520	FRANGE, GEAR CASE	1							
13	1	119802-01560	STUD, M8X25	3							
14	1	124160-01751	COVER,FILLER	1							
15	1	124240-01871	COVER, HO-P	1							
16	1	129795-01950	PIPE, KNOCK L=18	2							
17	1	119609-32040	O-RING P16	4							
18	1	119802-32111	ROTOR, INNER	1							
19	1	119802-32120	ROTOR, OUTER	1							
20	1	119802-32130	SCREW, M6X16	7							
21	1	121850-51960	O-RING, F.I.PUMP	1							
22	1	129001-91841	BOLT M 8X 85 PLATED	3							
23	1	24311-000320	O-RING 1A P-32.0	1							
24	1	26106-080162	BOLT M 8X 16 PLATED	4							
25	1	26106-080162	BOLT M 8X 16 PLATED	3							
26	1	26106-080552	BOLT M 8X 55 PLATED	11							
27	1	26306-080002	NUT	3							
28	1	121023-01550	COVER, BLIND	1							
29	1	24341-000240	O-RING 1A S-24.0	1							
30	1	26106-060162	BOLT M 6X 16 PLATED	2							
31	1	129150-01580	STUD 8 X 30	1							

Fig.3. MOUNTING FLANGE & OIL SUMP



Remarks
 (REMARKS)"EFFECTIVE MACHINE NO." OF
 ENGINE IS INDICATED ON THE
 ENGINE LABEL WHICH IS SHOWN
 IN FIG.4.

0CNP4-G31900 3. MOUNTING FLANGE & OIL SUMP

(A)=3TNV82A-NRE

(B)=

(C)=

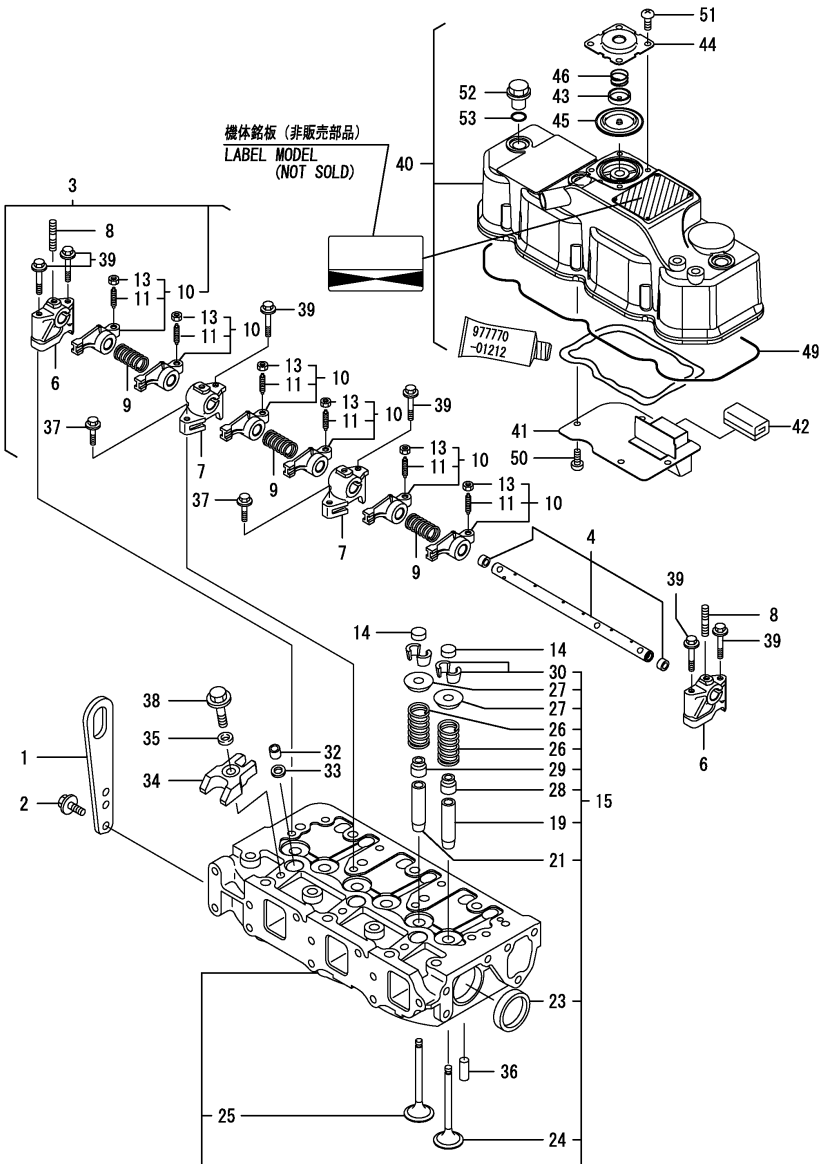
(D)=

(E)=

(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129100-01580	PARALLEL PIN 8X16	2							
2	1	119852-01600	FLANGE, MOUNTING	1							
3	1	26206-100202	BOLT M10X20	6							
4	1	26206-100252	BOLT M10X25	4							
5	1	119810-01730	SPACER, L.O. SUMP	1							
7	1	119852-01770	SUMP, LUB.OIL	1							
8	2	129054-01640	DRAIN PLUG	1							
10	2	22190-120002	SEAL WASHER 12	1							
11	1	26106-080162	BOLT M 8X 16 PLATED	6							
12	1	26106-080452	BOLT M 8X 45 PLATED	22							
13	1	129100-01580	PARALLEL PIN 8X16	2							
14	1	129100-01640	CASE ASSY, OIL SEAL	1							
16	2	129795-01780	SEAL, OIL	1							
17	1	129486-01670	BOLT M8X30,COLLAR HD	6							
18	1	26106-080352	BOLT M 8X 35 PLATED	3							

Fig.4. CYLINDER HEAD & BONNET



Remarks
 (1) REPAIR PART.
 (REMARKS)"EFFECTIVE MACHINE NO." OF
 ENGINE IS INDICATED ON THE
 ENGINE LABEL WHICH IS SHOWN
 IN FIG.4.

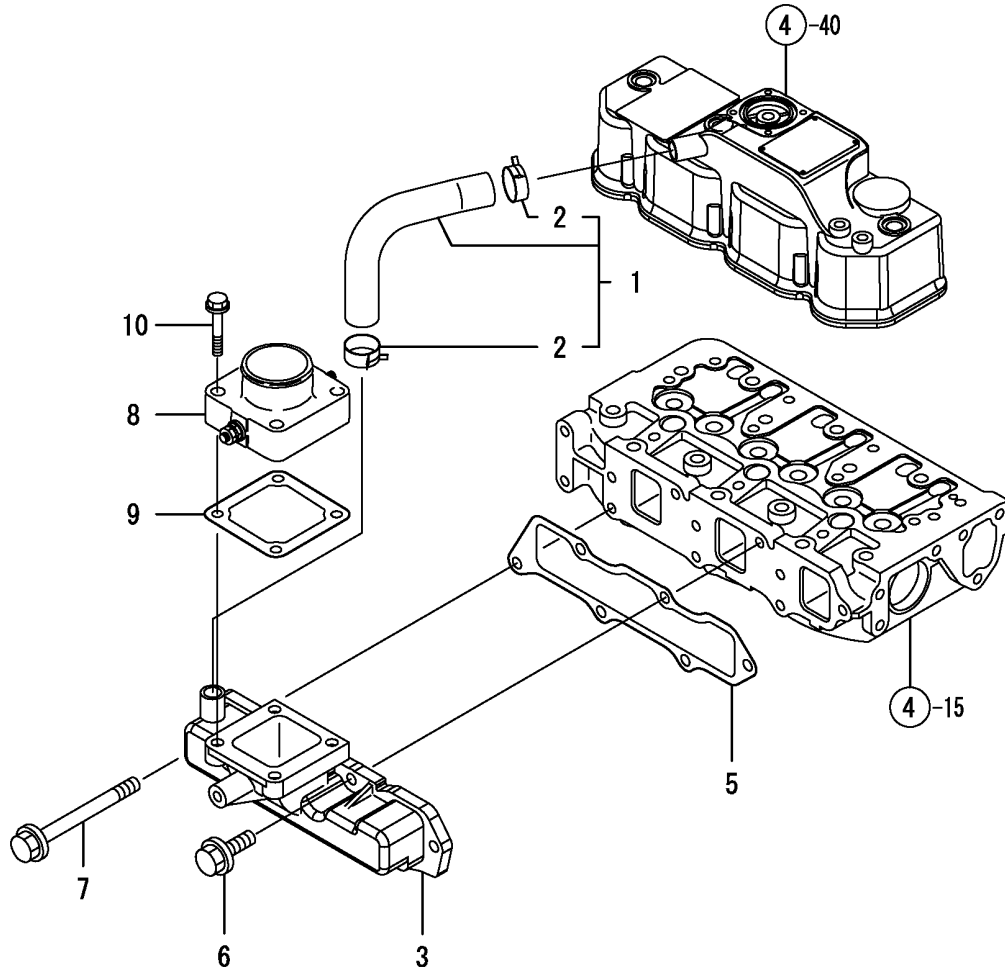
OCNP4-G31900 4. CYLINDER HEAD & BONNET

(A)=3TNV82A-NRE
 (B)=
 (C)=

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

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129900-07900	LIFTER, ENGINE	1							
2	1	26106-080142	BOLT 8X 14 PLATED	2							
3	1	119802-11241	SHAFT ASSY, ROCKER	1							
4	2	119802-11251	SHAFT, ROCKER ARM	1							
6	2	119802-11260	SUPPORT, ROCKER ARM	2							
7	2	119802-11270	SUPPORT, ROCKER ARM	2							
8	2	119802-11280	STUD	3							
9	2	129150-11280	SPRING	3							
10	2	119802-11650	ARM ASSY, ROCKER	6							
11	3	129150-11230	SCREW, VALVE	6							
13	3	129150-11750	NUT M8XP1.0	6							
14	1	104211-11370	CAP, VALVE	6							
15	1	119802-11700	HEAD ASSY, CYLINDER	1							
19	2	124060-11800	GUIDE, VALVE	3							1
21	2	119802-11810	GUIDE, VALVE	3							1
23	2	27241-400000	PLUG 40	2							
24	2	119802-11100	VALVE, INTAKE	3							
25	2	119802-11110	VALVE, EXHAUST	3							
26	2	119810-11120	SPRING, VALVE	6							
27	2	104211-11180	RETAINER, SPRING	6							
28	2	124160-11340	SEAL, VALVE STEM(INT	3							
29	2	124950-11340	SEAL, VALVE STEM(EXH	3							
30	2	27310-070001	COTTER ASSY	6							
32	1	119802-11870	PROTECTOR, NOZZLE	3							
33	1	119625-11880	SEAT, NOZZLE	3							
34	1	119802-11900	RETAINER, NOZZLE	3							
35	1	120270-54410	WASHER	3							
36	1	22351-060012	SPRING PIN 6X12	2							
37	1	26106-080252	BOLT M 8X 25 PLATED	2							
38	1	26106-080452	BOLT M 8X 45 PLATED	3							
39	1	26106-080502	BOLT M 8X 50 PLATED	6							
40	1	119852-11350	BONNET ASSY, HEAD	1							
41	2	119802-03010	PLATE, BAFFLE	1							
42	2	129150-03070	BAFFLE, BREATHER	1							
43	2	119802-03110	PLATE, DIAPHRAGM	1							
44	2	119802-03121	COVER, DIAPHRAGM	1							
45	2	119802-03130	DIAPHRAGM	1							
46	2	119802-03141	SPRING, DIAPHRAGM	1							
49	2	119802-11310	GASKET, BONNET	1							
50	2	22857-500100	SCREW 5X10,TAPPING	4							
51	2	22857-500100	SCREW 5X10,TAPPING	4							
52	1	124160-11360	KNOB	3							
53	1	24311-000120	O-RING 1A P 12.0	3							

Fig.5. SUCTION MANIFOLD



0CNP4-G31900 5. SUCTION MANIFOLD

(A)=3TNV82A-NRE
(B)=
(C)=

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

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129005-03080	PIPE, BREATHER	1							
2	2	129410-03990	CLAMP 22	2							
3	1	119802-12120	MANIFOLD, INTAKE	1							
5	1	119813-12110	GASKET,INT. MANIFOLD	1							
6	1	26106-080202	BOLT M 8X 20 PLATED	4							
7	1	26106-080802	BOLT M 8X 80 PLATED	2							
8	1	129120-77501	HEATER, AIR	1							
9	1	129150-77511	GASKET, (NON-ASB.)	1							
10	1	26106-080352	BOLT M 8X 35 PLATED	4							

Remarks
(REMARKS)"EFFECTIVE MACHINE NO." OF
ENGINE IS INDICATED ON THE
ENGINE LABEL WHICH IS SHOWN
IN FIG.4.

Fig.6. EXHAUST MANIFOLD & SILENCER

0CNP4-G31900 6. EXHAUST MANIFOLD & SILENCER

(A)=3TNV82A-NRE

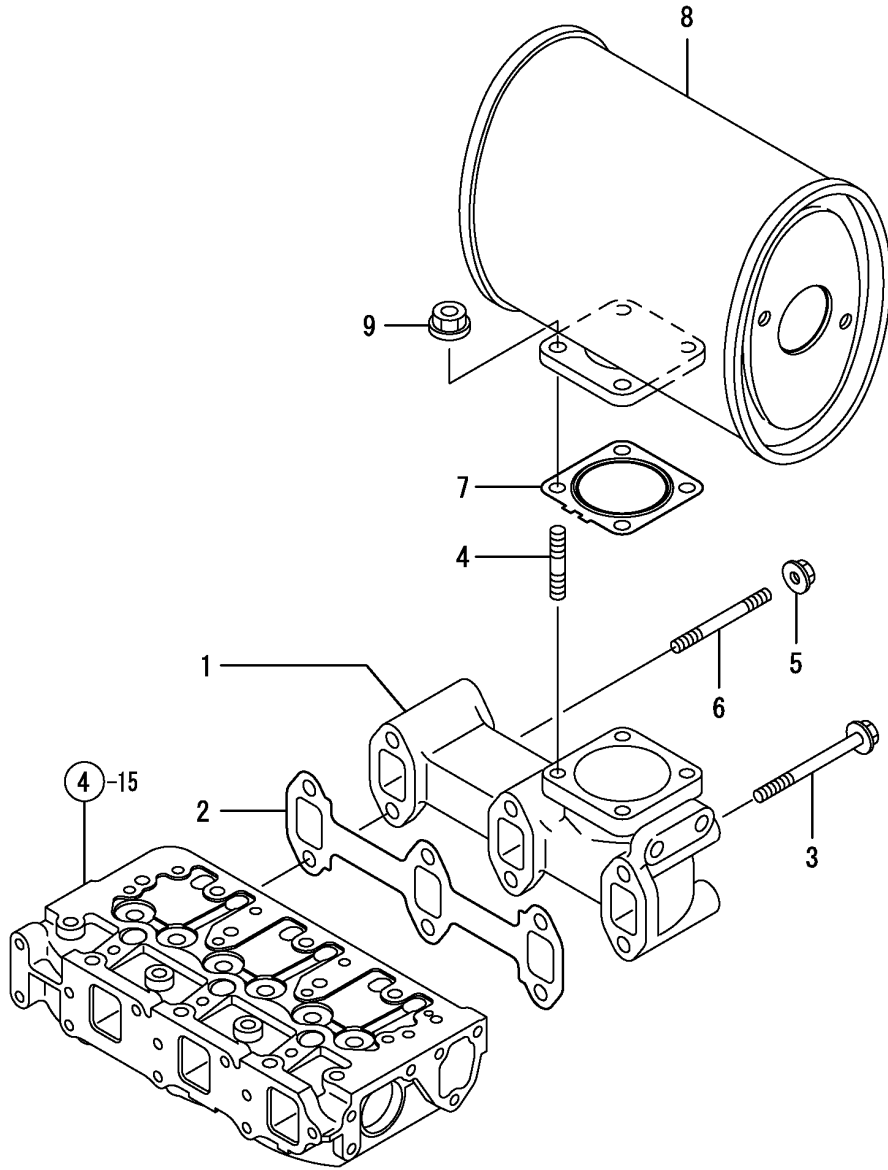
(B)=

(C)=

(D)=

(E)=

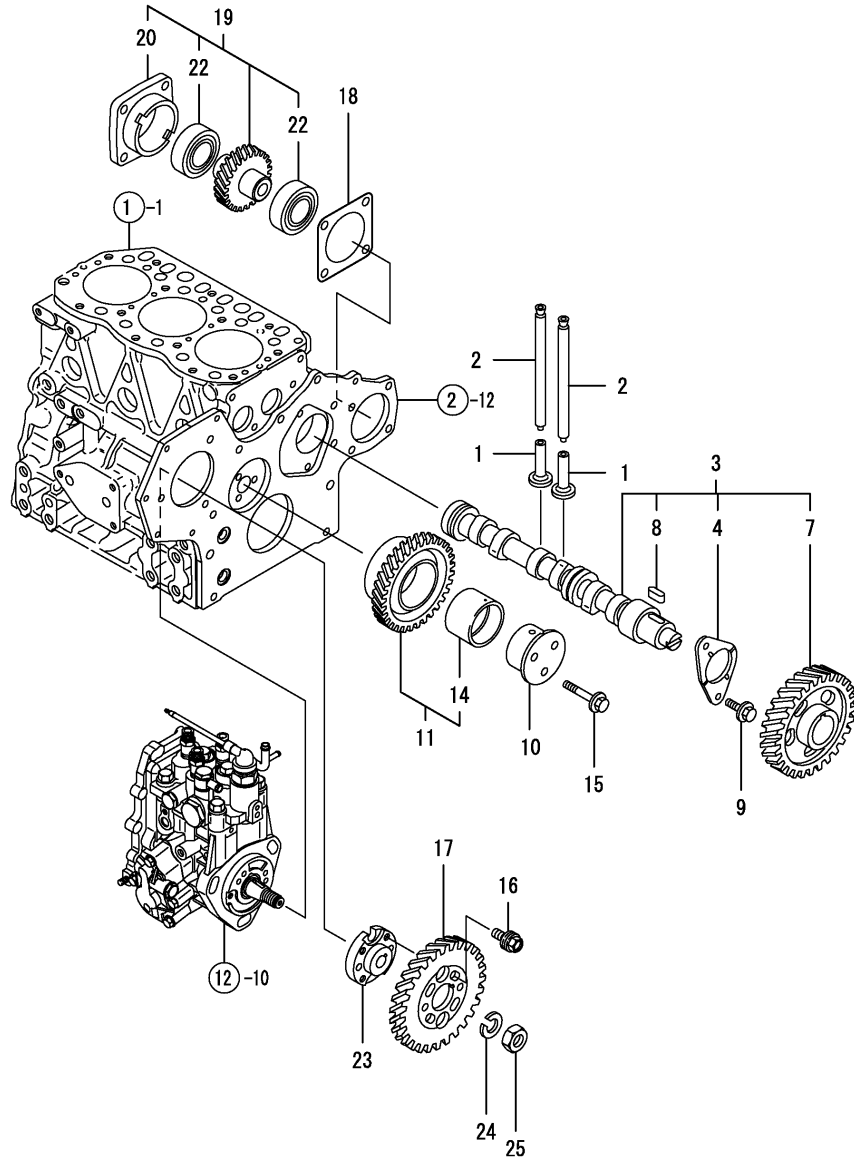
(F)=



REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119888-13101	MANIFOLD, EXHAUST	1							
2	1	119810-13110	GASKET, EXH.MANIFOLD	1							
3	1	119802-13640	BOLT, M8X60	4							
4	1	119131-18320	BOLT M 8X 22	4							
5	1	26306-080002	NUT	2							
6	1	119852-13220	STUD, M8X75	2							
7	1	129004-13200	GASKET, SILENCER	1							
8	1	119852-13520	SILENCER	1							
9	1	26306-080002	NUT	4							

Remarks
 (REMARKS)"EFFECTIVE MACHINE NO." OF
 ENGINE IS INDICATED ON THE
 ENGINE LABEL WHICH IS SHOWN
 IN FIG.4.

Fig.7. CAMSHAFT & DRIVING GEAR



OCNP4-G31900 7. CAMSHAFT & DRIVING GEAR

(A)=3TNV82A-NRE

(B)=

(C)=

(D)=

(E)=

(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129150-14200	TAPPET	6							
2	1	119810-14400	ROD, PUSH	6							
3	1	119802-14580	CAMSHFT ASSY	1							
4	2	129150-02450	METAL,THRUST(CAM	1							
7	2	129150-14101	GEAR, CAMSHAFT	1							
8	2	22512-070140	KEY 7X 14	1							
9	1	26106-080142	BOLT 8X 14 PLATED	2							
10	1	119802-25051	SHAFT, IDLE GEAR	1							
11	1	119802-25100	GEAR ASSY, IDLE	1							
14	2	119802-25070	BUSH, IDLE GEAR	1							1
15	1	26106-080402	BOLT M 8X 40 PLATED	3							
16	1	129150-25301	BOLT,FI-P	4							
17	1	119802-25901	GEAR, PUMP	1							
18	1	129150-01881	GASKET, (NON ASB.)	1							
19	1	129150-26000	DRIVING SET, HO-PUMP	1							
20	2	129150-26050	BRACKET, HO-P	1							
22	2	24105-060064	BALL BEARING	2							
23	1	158552-51151	FLANGE	1							
24	1	22217-140000	SPRING WASHER 14	1							
25	1	26776-140002	LOCK NUT M14 PLATED	1							

Remarks
 (1) REPAIR PART.
 (REMARKS)"EFFECTIVE MACHINE NO." OF
 ENGINE IS INDICATED ON THE
 ENGINE LABEL WHICH IS SHOWN
 IN FIG.4.

Fig.8. CRANKSHAFT & PISTON

0CNP4-G31900 8. CRANKSHAFT & PISTON

(A)=3TNV82A-NRE

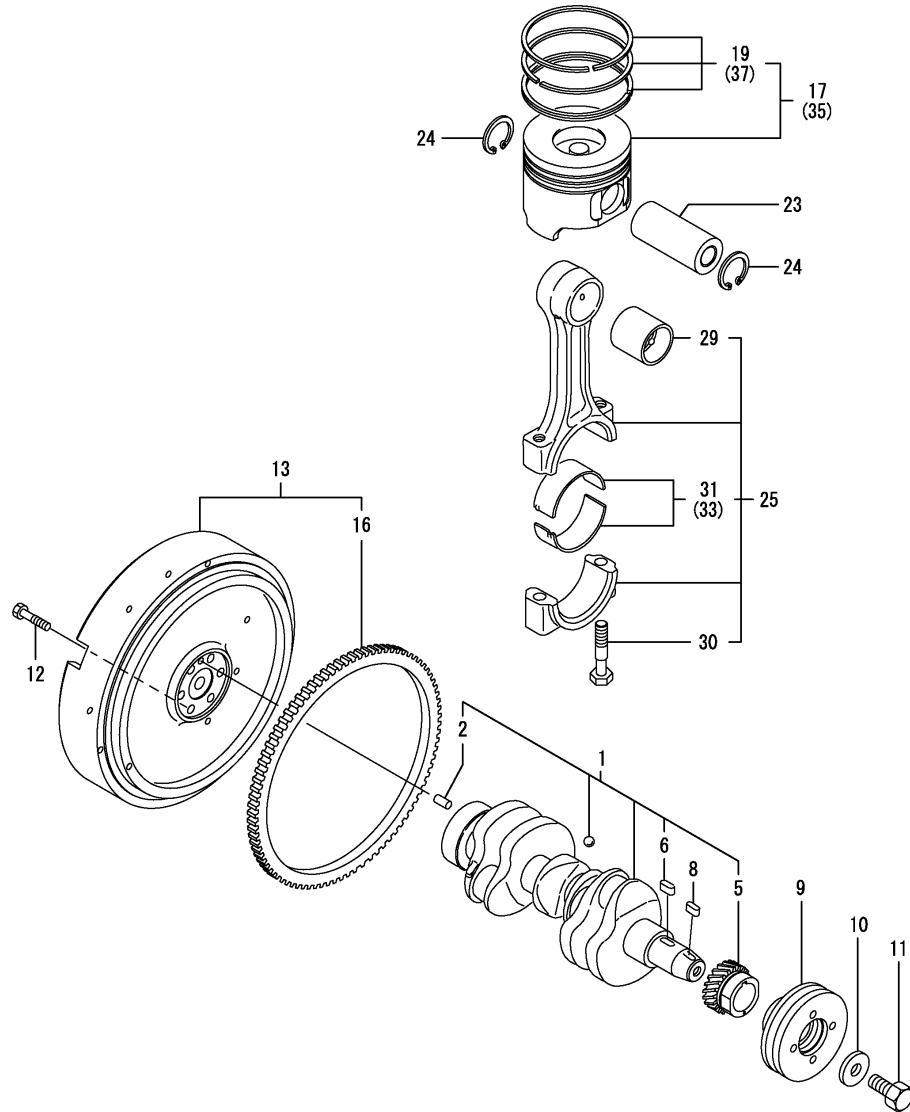
(B)=

(C)=

(D)=

(E)=

(F)=

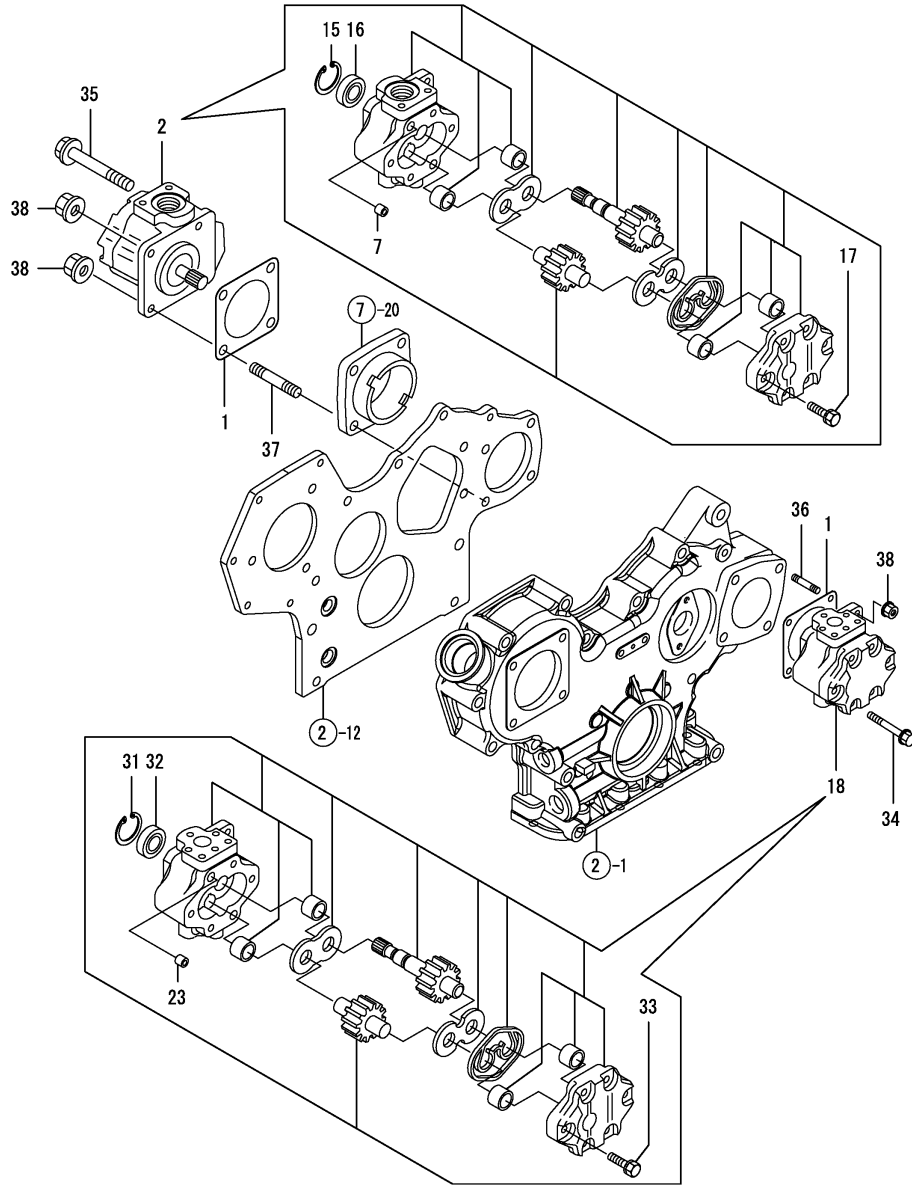


REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119802-21002	CRANKSHAFT ASSY	1							
2	2	129100-01580	PARALLEL PIN 8X16	1							
5	2	119802-21202	GEAR, CRANKSHAFT	1							
6	2	22512-070140	KEY 7X 14	1							
8	1	22512-070140	KEY 7X 14	1							
9	1	119852-21650	V-PULLEY, CRANKSHAFT	1							
10	1	129795-21661	WASHER	1							
11	1	121850-21680	BOLT, V-PULLEY	1							
12	1	121111-21501	BOLT, FLYWHEEL	6							
13	1	119852-21592	FLYWHEEL ASSY	1							
16	2	124550-21600	RING GEAR	1							
17	1	119802-22080	PISTON W/RING	3							
19	2	119802-22500	RING SET, PISTON	3							
23	1	119813-22300	PIN, PISTON	3							
24	1	129792-22400	CIRCLIP 23	6							
25	1	719810-23100	ROD ASSY, CONNECTING	3							
29	2	119810-23910	BUSH, PISTON PIN	3							1
30	2	119810-23200	BOLT, CONNECTING ROD	6							
31	2	119810-23600	BEARING, CRANKPIN	3							
33	1	119810-23610	BEARING, PIN U.S.=0.25	3							2
35	1	719802-22900	PISTON W/RING OS=.25	3							3
37	2	719802-22950	RING SET O.S.=0.25	3							3

Remarks

(1) REPAIR PART.
 (2) UNDER-SIZE(U.S=0.25)PART.
 (3) OVER-SIZE(O.S=0.25)PART.
 (REMARKS)"EFFECTIVE MACHINE NO." OF
 ENGINE IS INDICATED ON THE
 ENGINE LABEL WHICH IS SHOWN
 IN FIG.4.

Fig.9. HYDRAULIC PUMP



(A)=3TNV82A-NRE

(B)=

(C)=

(D)=

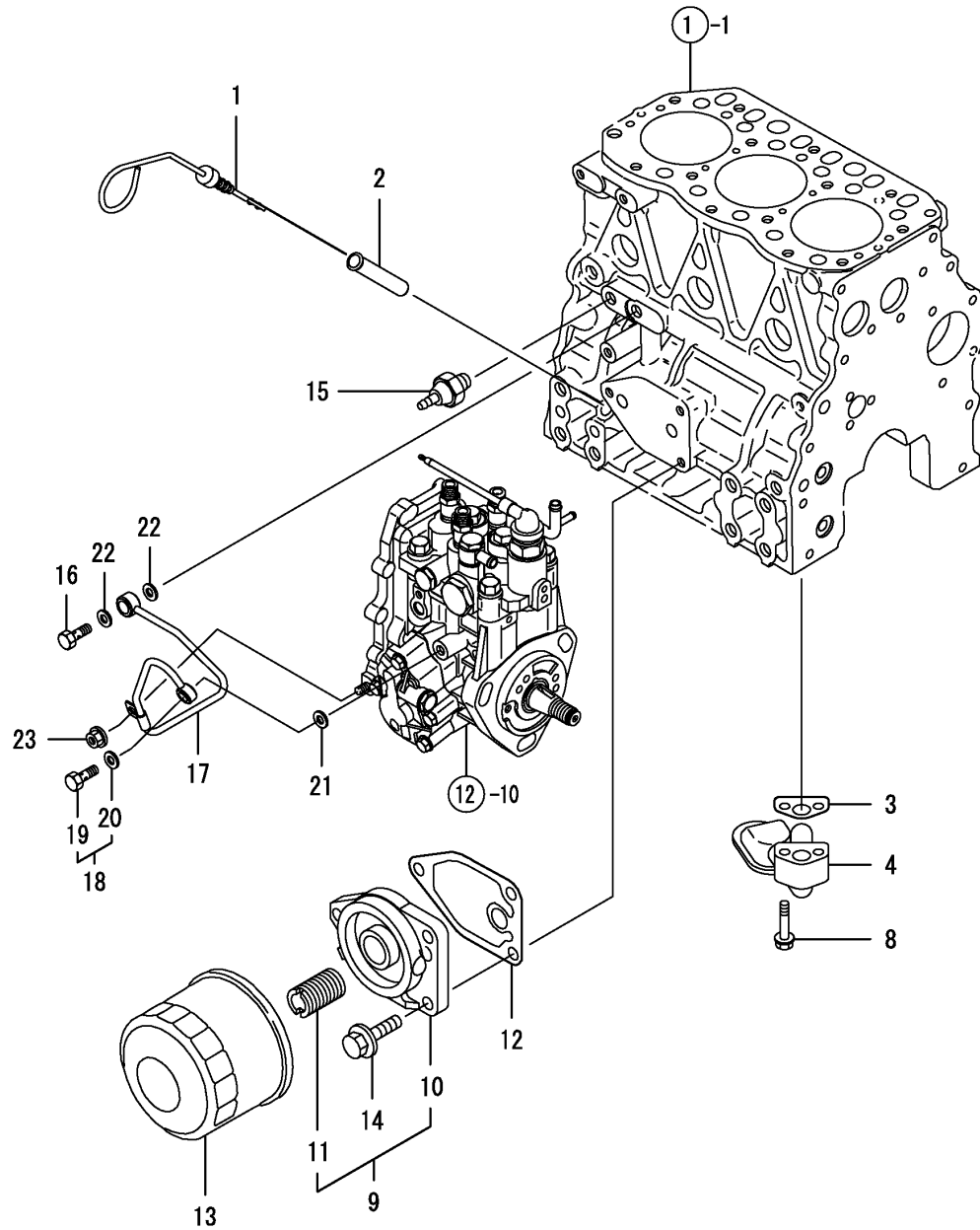
(E)=

(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	124240-01883	GASKET, (NON-ASB.)	2							
2	1	198172-41110	PUMP, HYDRAULIC	1							
7	2	194521-41570	PIN 11X7	2							
15	2	22252-000320	CIRCLIP 32	1							
16	2	24421-153207	SEAL TC15 32 07, OIL	1							
17	2	26016-080352	BOLT M 8X 35	4							
18	1	198280-41150	PUMP ASSY, HYD. OIL	1							
23	2	194521-41570	PIN 11X7	2							
31	2	22252-000320	CIRCLIP 32	1							
32	2	24421-153207	SEAL TC15 32 07, OIL	1							
33	2	26016-080352	BOLT M 8X 35	4							
34	1	26106-080802	BOLT M 8X 80 PLATED	2							
35	1	26106-080952	BOLT M 8X 95 PLATED	2							
36	1	26216-080222	STUD M 8X 22 PLATED	2							
37	1	26216-080402	STUD M 8X 40 PLATED	1							
38	1	26306-080002	NUT	4							

Remarks
 (REMARKS)"EFFECTIVE MACHINE NO." OF
 ENGINE IS INDICATED ON THE
 ENGINE LABEL WHICH IS SHOWN
 IN FIG.4.

Fig.10. LUB.OIL SYSTEM



Remarks
(1) REPAIR PART.

(A)=3TNV82A-NRE

(B)=

(C)=

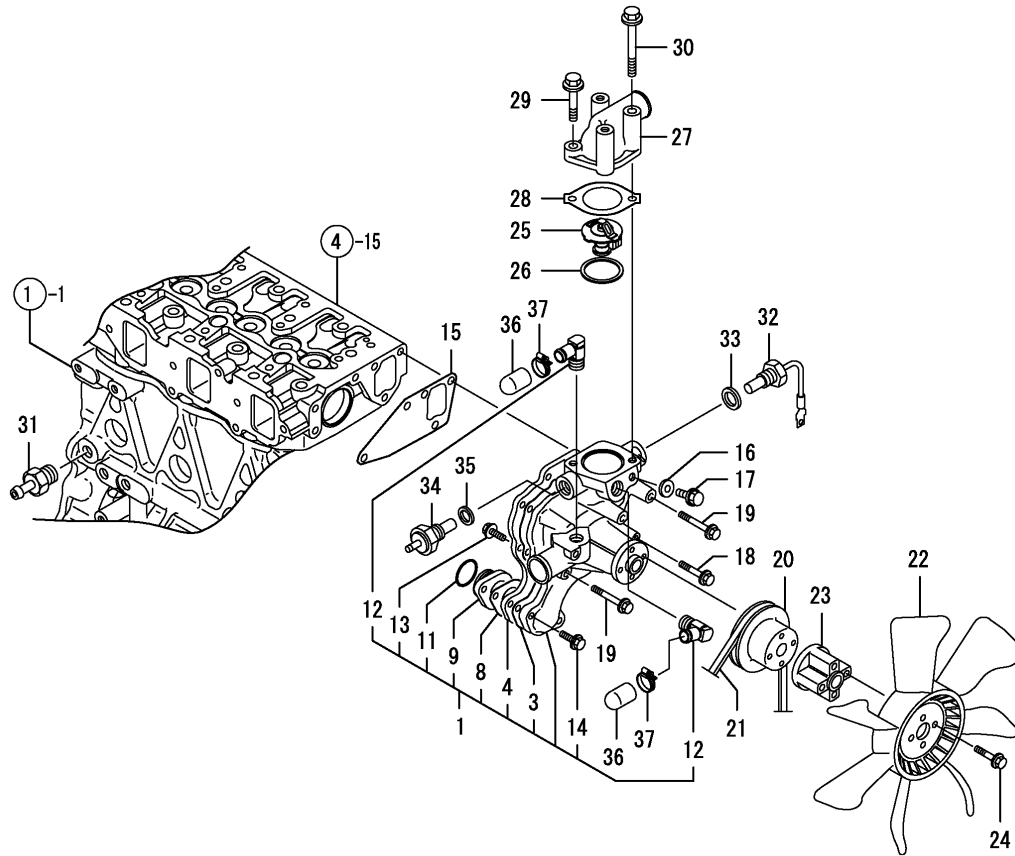
(D)=

(E)=

(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119852-34811	DIPSTICK, LUB.OIL	1							
2	1	121520-34810	GUIDE, DIPSTICK	1							
3	1	129150-35042	GASKET, (NON-ASB.)	1							
4	1	119810-35401	PIPE ASSY, OIL INLET	1							
8	1	26106-080352	BOLT M 8X 35 PLATED	2							
9	1	119802-35100	BRACKET ASSY, FILTER	1							
10	2	119802-35110	BRACKET, FILTER	1							
11	2	129100-35140	STUD	1							
12	1	129150-35111	GASKET, (NON-ASB.)	1							
13	1	129150-35153	FILTER 80X80L	1							1
14	1	26106-080202	BOLT M 8X 20 PLATED	3							
15	1	114250-39450	SWITCH,(0.5KG)L.O.	1							
16	1	124160-39140	BOLT 10, PIPE JOINT	1							
17	1	119802-39450	PIPE ASSY, LUB. OIL	1							
18	1	129005-59830	BOLT ASSY, JOINT	1							
19	2	23857-030000	JOINT BOLT 3	1							
20	2	22190-080002	SEAL WASHER 8S	1							
21	1	22190-080002	SEAL WASHER 8S	1							
22	1	22190-100002	SEAL WASHER 10S	2							
23	1	26366-060002	NUT M 6	1							

Fig.11. COOLING WATER SYSTEM



OCNP4-G31900 11. COOLING WATER SYSTEM

(A)=3TNV82A-NRE

(B)=

(C)=

(D)=

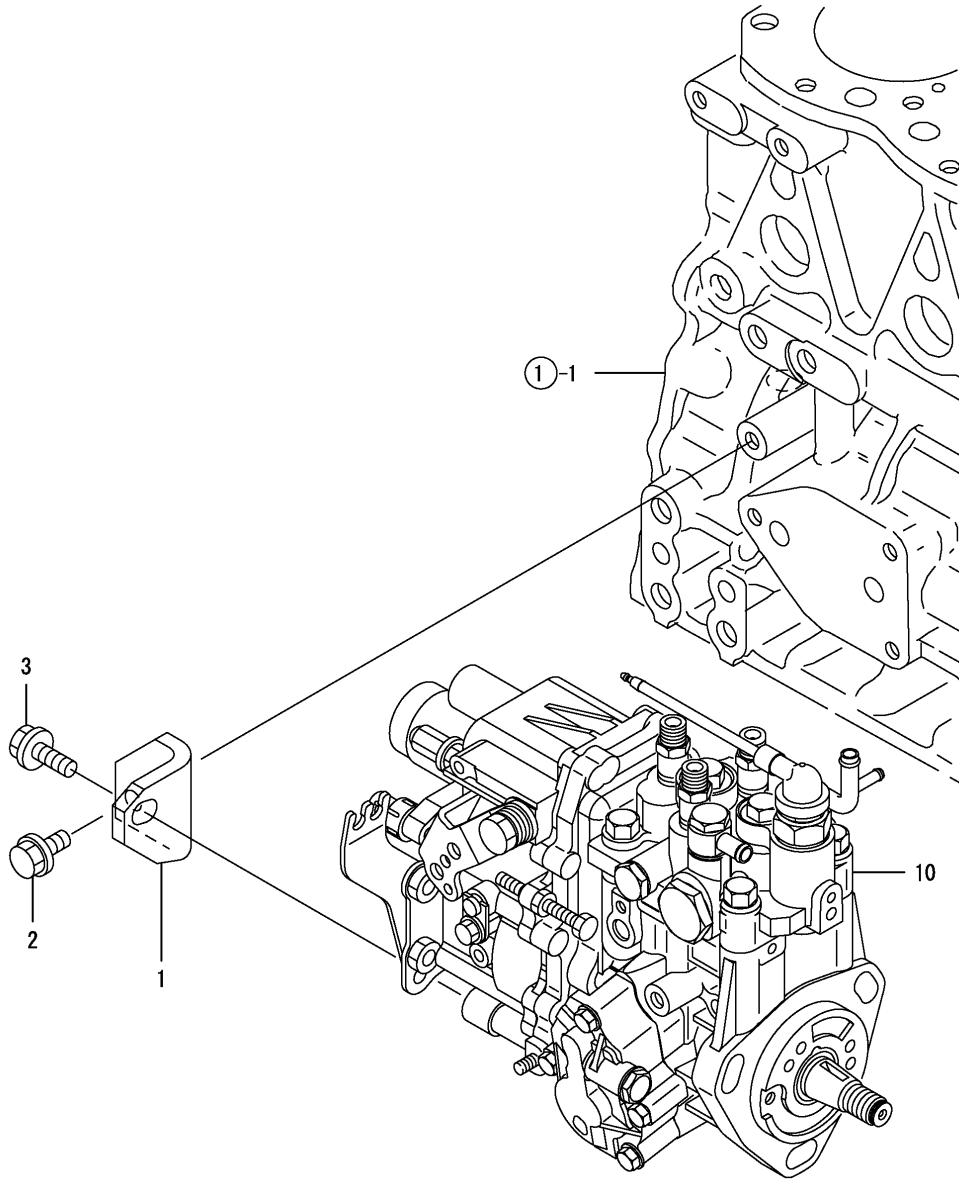
(E)=

(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119852-42010	PUMP ASSY, WATER	1							
3	2	119810-42051	GASKET, (NON-ASB.)	1							
4	2	119810-42120	PLATE	1							
8	2	119810-42281	GASKET, (NON-ASB.)	1							
9	2	119810-42290	PIPE, C.W. PUMP	1							
11	2	129054-42320	O-RING	1							
12	2	119852-49300	ELBOW R3/8	2							
13	2	26106-060142	BOLT M 6X 14 PLATED	2							
14	2	26106-060202	BOLT M 6X 20 PLATED	2							
15	1	129486-42050	GASKET	1							
16	1	23414-080000	GASKET 8, ROUND	1							
17	1	26106-080122	BOLT M 8X 12 PLATED	1							
18	1	26106-080352	BOLT M 8X 35 PLATED	1							
19	1	26106-080552	BOLT M 8X 55 PLATED	3							
20	1	129403-42380	V-PULLEY(D=110)	1							
21	1	119831-42290	V-BELT A37.5	1							
22	1	121267-44741	FAN, COOLING (D=360)	1							
23	1	119256-44760	SPACER	1							
24	1	26106-060602	BOLT M 6X 60 PLATED	4							
25	1	129457-49801	THERMOSTAT(82	1							
26	1	129150-49811	GASKET, (NON-ASB.)	1							
27	1	119852-49530	COVER, THERMOSTAT	1							
28	1	129795-49551	GASKET, (NON-ASB.)	1							
29	1	26106-080282	BOLT M 8X 28 PLATED	1							
30	1	26106-080652	BOLT M 8X 65 PLATED	1							
31	1	121550-49111	JOINT PT1/4	1							
32	1	129107-44901	SENSOR,HOT WATER	1							
33	1	124465-44950	GASKET 16	1							
34	1	124250-49351	THERMOMETER	1							
35	1	129150-49360	GASKET 10	1							
36	1	129055-49320	CAP, ELBOW	2							
37	1	23000-022000	CLAMP 22	2							

Remarks
 (REMARKS)"EFFECTIVE MACHINE NO." OF
 ENGINE IS INDICATED ON THE
 ENGINE LABEL WHICH IS SHOWN
 IN FIG.4.

Fig.12. FUEL INJECTION PUMP



Remarks
 (REMARKS)"EFFECTIVE MACHINE NO." OF
 ENGINE IS INDICATED ON THE
 ENGINE LABEL WHICH IS SHOWN
 IN FIG.4.

0CNP4-G31900 12. FUEL INJECTION PUMP

(A)=3TNV82A-NRE
 (B)=
 (C)=

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

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119802-51250	BRACKET, PUMP	1							
2	1	26106-080162	BOLT M 8X 16 PLATED	1							
3	1	26106-080202	BOLT M 8X 20 PLATED	1							
10	1	719852-51330	INJECTION PUMP ASSY	1							

Fig.13. FUEL INJECTION VALVE

(A)=3TNV82A-NRE

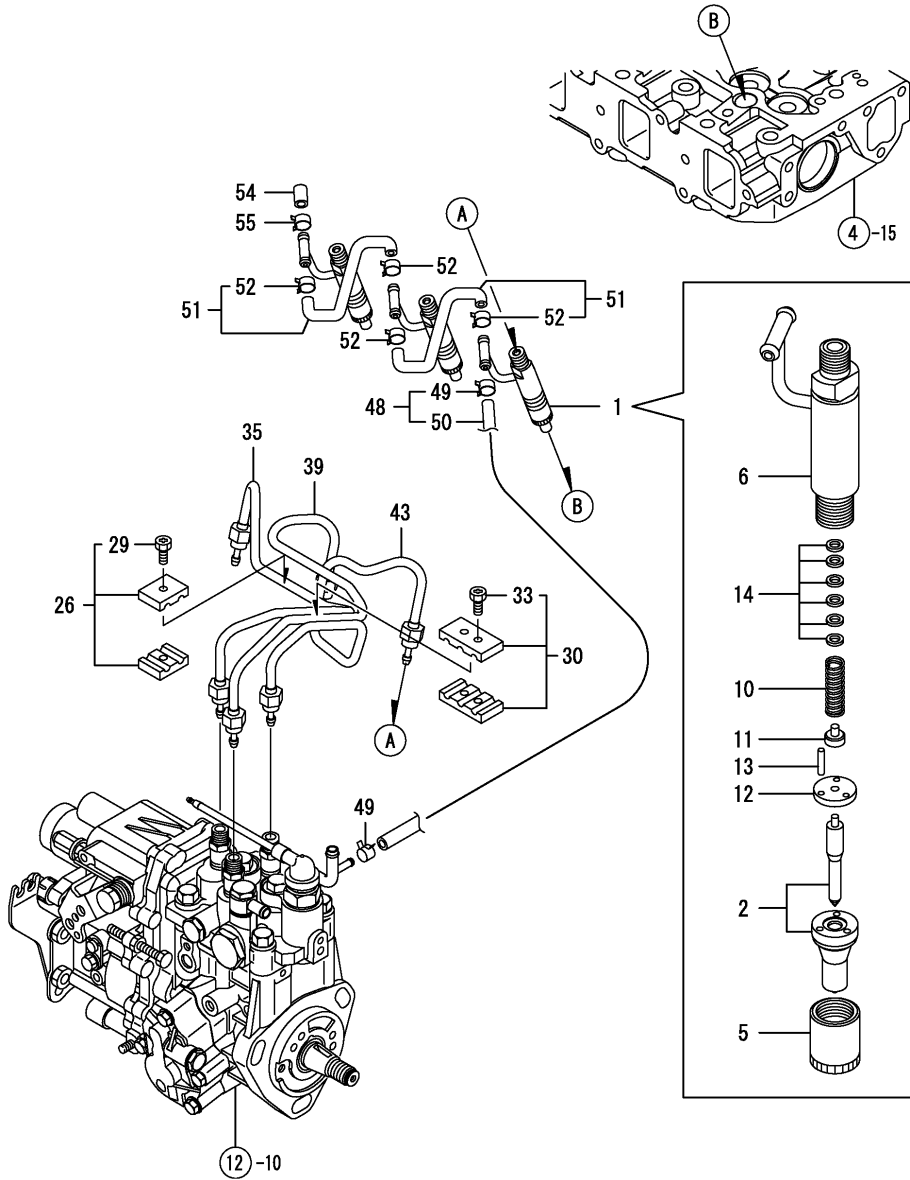
(B)=

(C)=

(D)=

(E)=

(F)=



REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729240-53200	FUEL INJECTOR(WBJ	3							
2	2	129240-53001	NOZZLE ASSY	3							
5	2	114250-53080	NUT, NOZZLE CASE	3							
6	2	119802-53100	HOLDER ASSY, NOZZLE	3							
10	2	114250-53120	SPRING, NOZZLE	3							
11	2	114250-53130	SEAT, NOZZLE SPRING	3							
12	2	114250-53140	PLATE, STOP	3							
13	2	114250-53210	PIN	6							
14	2	114250-53400	SHIM PACK	3							
26	1	119305-59120	RETAINER	1							
29	2	129150-59131	BOLT M4X14,HEX.SCKT.	1							
30	1	129150-59120	RETAINER, INJ. PIPE	1							
33	2	129150-59131	BOLT M4X14,HEX.SCKT.	2							
35	1	119802-59810	PIPE ASSY, INJECTION	1							
39	1	119802-59820	PIPE ASSY, INJECTION	1							
43	1	119802-59830	PIPE ASSY, INJECTION	1							
48	1	119802-59550	PIPE ASSY, RETURN	1							
49	2	124722-59050	CLAMP 9	2							
50	2	119802-59560	PIPE, FUEL RETURN	1							
51	1	129486-59551	PIPE, FUEL RETURN	2							
52	2	124722-59050	CLAMP 9	4							
54	1	119593-59580	CAP	1							
55	1	124060-77680	CLAMP 10	1							

Remarks
 (REMARKS)"EFFECTIVE MACHINE NO." OF
 ENGINE IS INDICATED ON THE
 ENGINE LABEL WHICH IS SHOWN
 IN FIG.4.

Fig.14. STARTING MOTOR

(A)=3TNV82A-NRE

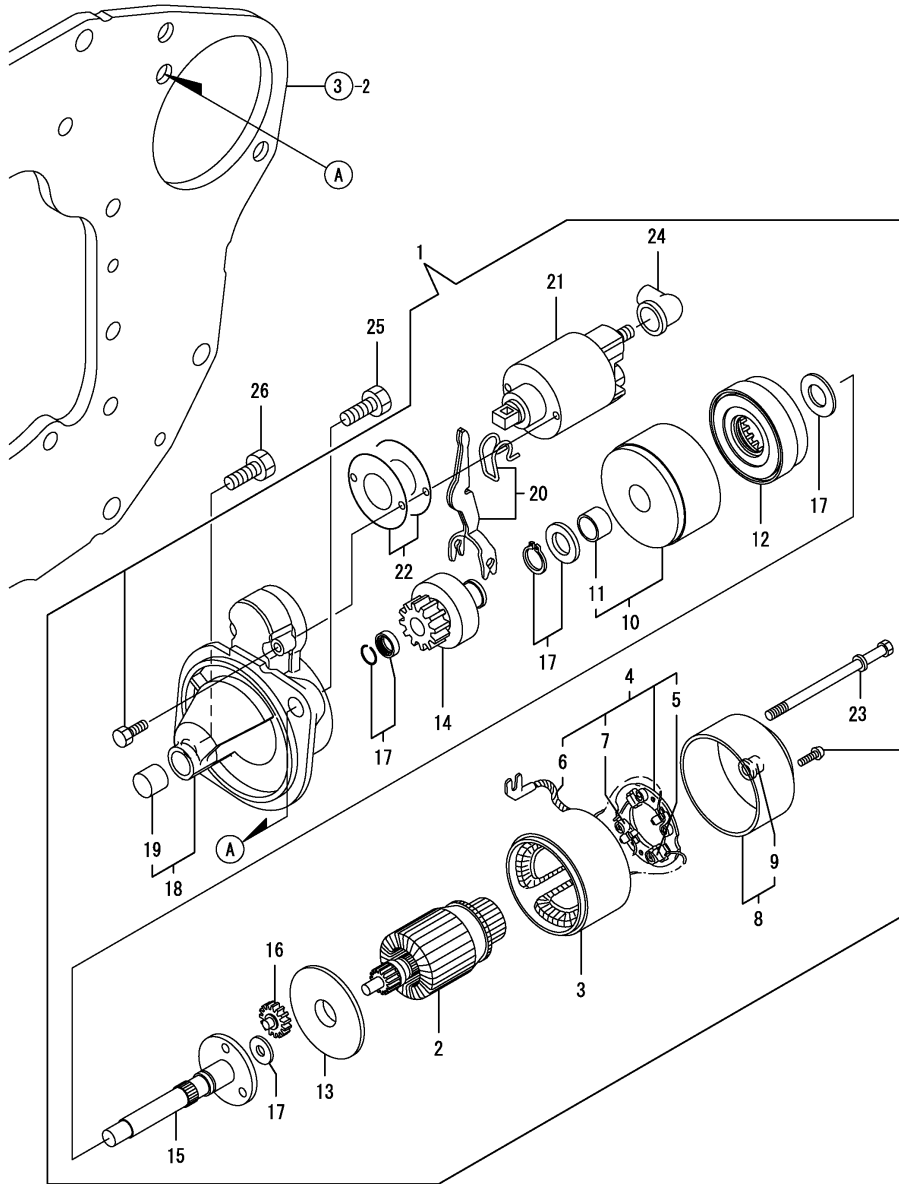
(B)=

(C)=

(D)=

(E)=

(F)=



REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129052-77010	STARTER	1							
2	2	129698-77101	ARMATURE ASSY	1							
3	2	129698-77110	COIL ASSY, FIELD	1							
4	2	129698-77120	HOLDER ASSY,BRUSH	1							
5	3	129698-77130	BRUSH (-)	2							
6	3	129698-77140	BRUSH(+) SET	1							
7	3	129698-77150	SPRING, BRUSH	4							
8	2	129698-77161	COVER ASSY, REAR	1							
9	3	129698-77170	REAR COVER METAL	1							
10	2	129698-77180	BRACKET	1							
11	3	129698-77190	BRACKET	1							
12	2	129698-77200	INTERNAL GEAR	1							
13	2	129698-77210	BRACKET	1							
14	2	129698-77220	PINION ASSY	1							
15	2	129698-77230	SHAFT(PINION)	1							
16	2	129698-77240	GEAR	3							
17	2	129698-77250	WASHER SET	1							
18	2	129052-77030	HOUSING ASSY, GEARS	1							
19	3	X2114535200	METAL, STARTER	1							
20	2	129698-77270	LEVER, SHIFT	1							
21	2	129698-77020	MAGNETIC SWITCH ASSY	1							
22	2	129698-77280	COVER ASSY, DUST	1							
23	2	124195-77770	THROUGH BOLT	2							
24	2	X2114274200	COVER, TERMINAL	1							
25	1	129155-77060	BOLT, STARTER	1							
26	1	26116-120202	BOLT M12X 20 PLATED	1							

Remarks
 (REMARKS)"EFFECTIVE MACHINE NO." OF
 ENGINE IS INDICATED ON THE
 ENGINE LABEL WHICH IS SHOWN
 IN FIG.4.

Fig.15. GENERATOR

(A)=3TNV82A-NRE

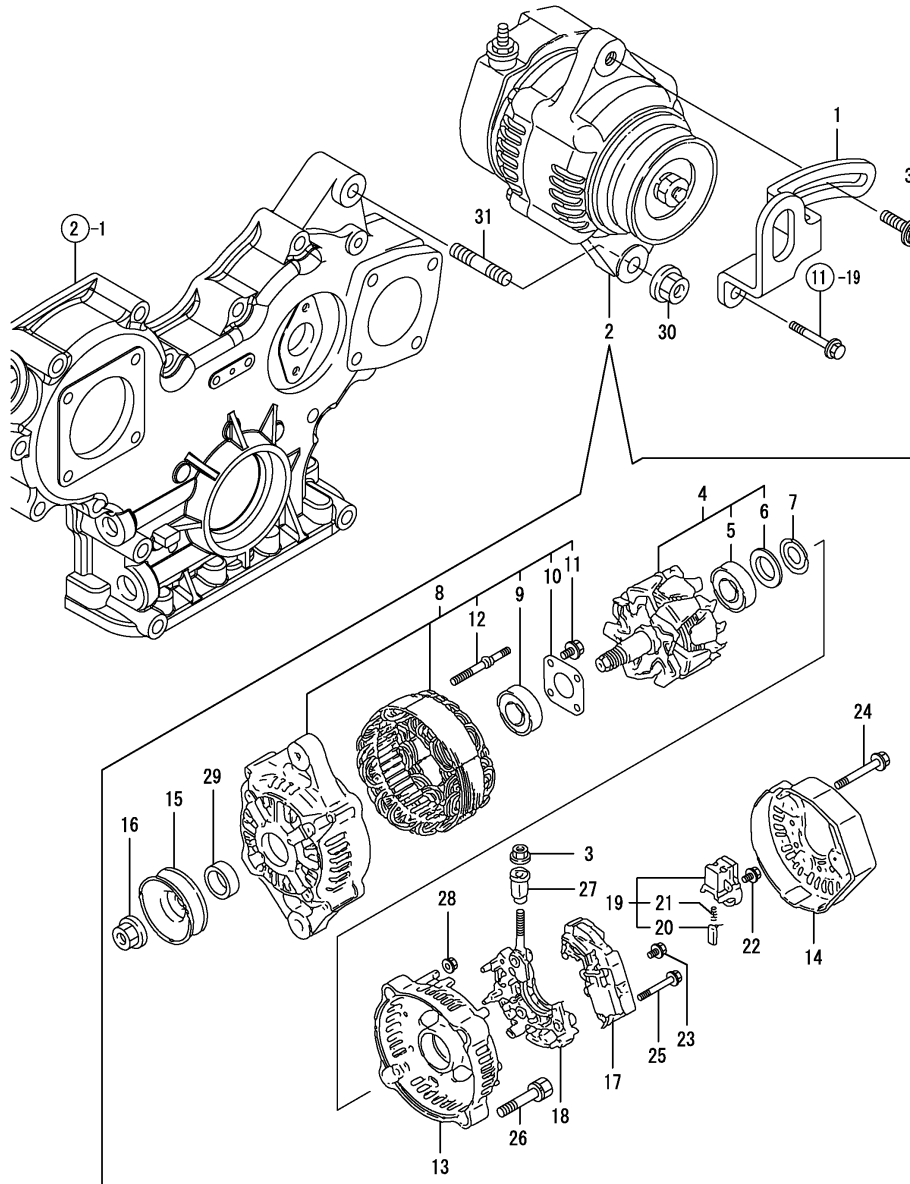
(B)=

(C)=

(D)=

(E)=

(F)=



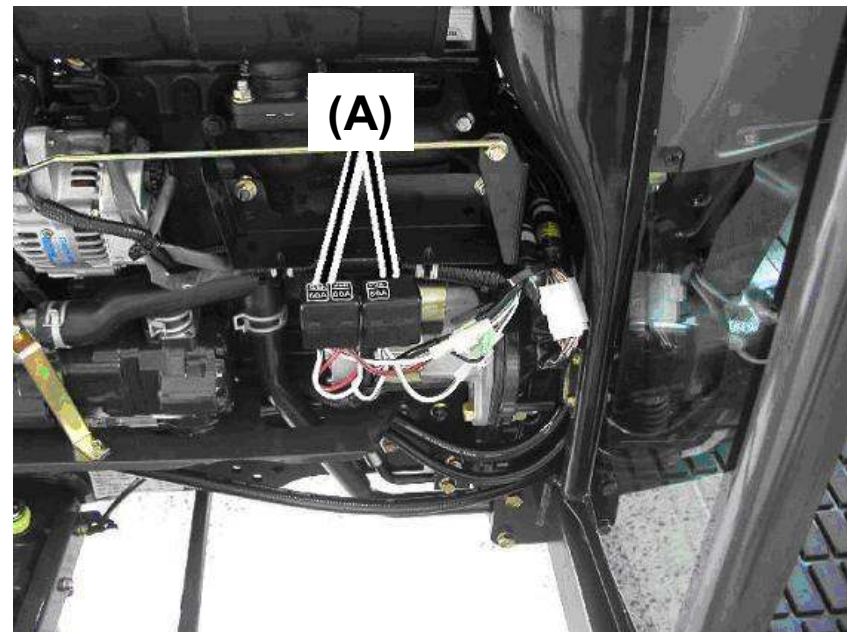
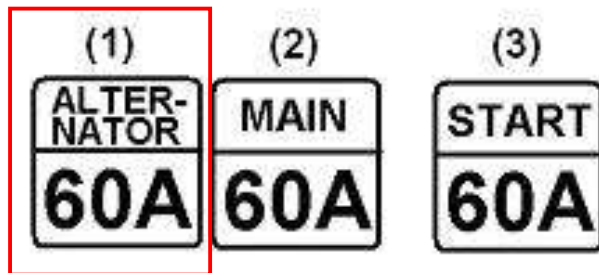
REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119852-77330	ADJUSTER, BELT	1							
2	1	129423-77200	GENERATOR	1							
3	2	X9490561001	NUT	1							
4	2	119620-77380	ROTOR ASSY	1							
5	3	123501-79240	BEARING, BALL	1							
6	3	119620-79250	COVER, BEARING	1							
7	2	119620-79360	THRUST WASHER	1							
8	2	119620-77421	FLAME ASSY, DRIVE	1							
9	3	119620-79200	BALL BEARING	1							
10	3	119620-79210	PLATE	1							
11	3	119620-79220	SCREW	4							
12	3	119620-79230	BOLT, STUD	2							
13	2	119620-77440	FLAME ASSY, REAR	1							
14	2	129240-79300	COVER	1							
15	2	119620-77461	PULLEY	1							
16	2	119620-77471	NUT	1							
17	2	129423-77710	REGULATOR ASSY	1							
18	2	119620-79260	HOLDER	1							
19	2	129052-79270	HOLDER, BRUSH	1							
20	3	119620-77480	BRUSH ASSY	2							
21	3	119620-79280	SPRING	2							
22	2	119620-79290	SCREW	6							
23	2	119620-79300	SCREW	1							
24	2	119620-79310	BOLT	3							
25	2	119620-79320	SCREW W/WASHER	2							
26	2	119620-79330	BOLT	2							
27	2	119620-79340	INSULATION BUSH	1							
28	2	119620-79350	NUT	2							
29	2	119620-77490	COLLAR	1							
30	1	26306-100002	NUT	1							
31	1	129795-01900	STUD	1							
32	1	119810-77340	BOLT	1							

Remarks
 (REMARKS)"EFFECTIVE MACHINE NO." OF
 ENGINE IS INDICATED ON THE
 ENGINE LABEL WHICH IS SHOWN
 IN FIG.4.

1. Replace the slow blow fuse

Remove negative cable from battery.

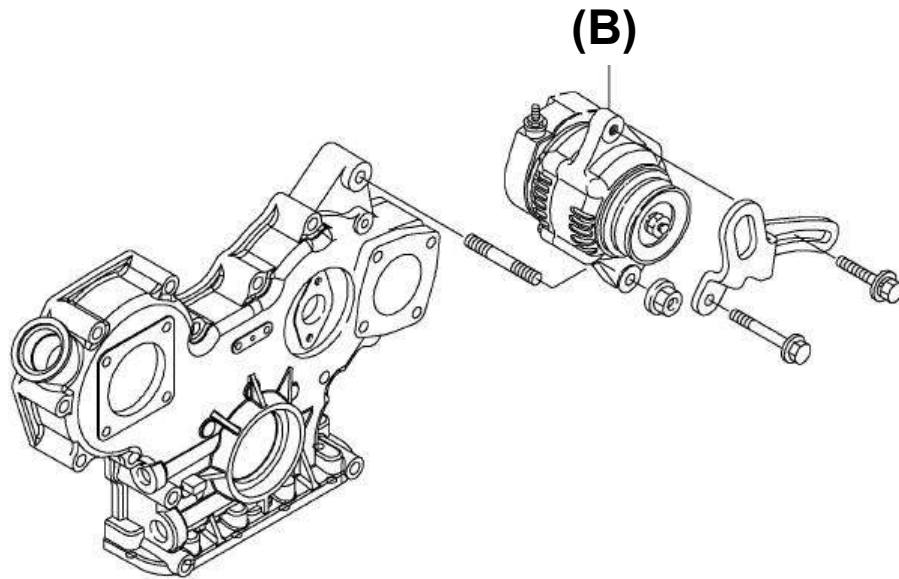
Replace the ALTERNATOR SLOW BLOW FUSE (1) to 80A fuse which is supplied with alternator.



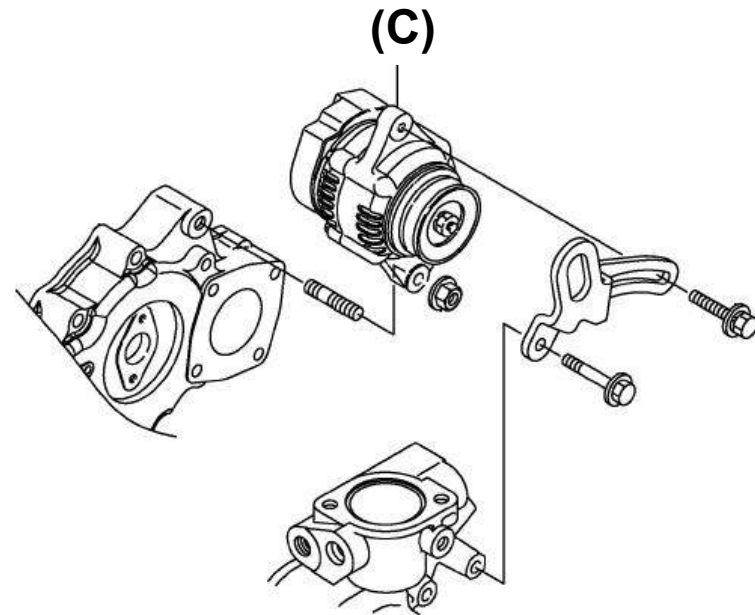
(A) – SLOW BLOW FUSE

2. Replace the alternator.

Replace to the large capacity alternator (C), 119626-77210.
Attach negative cable to battery.



NORMAL
(B) 129423-77200 / GENERATOR, 12V-40A



LARGE CAPACITY
(C) 119626-77210 / ALTERNATOR 12V-55A

Part Number Index

All parts are stipulated in the order of part numbers.

(Depending on the area in which the part is used.)

This index will display the location of the part according to each part number.

PARTS No. INDEX

PARTS No.	Fig.	Ref.No.
104211-11180	4	27
104211-11370	4	14
114250-39450	10	15
114250-53080	13	5
114250-53120	13	10
114250-53130	13	11
114250-53140	13	12
114250-53210	13	13
114250-53400	13	14
119131-18320	6	4
119256-44760	11	23
119305-59120	13	26
119593-59580	13	54
119609-32040	2	17
119620-02020	1	12
119620-77380	15	4
119620-77421	15	8
119620-77440	15	13
119620-77461	15	15
119620-77471	15	16
119620-77480	15	20
119620-77490	15	29
119620-79200	15	9
119620-79210	15	10
119620-79220	15	11
119620-79230	15	12
119620-79250	15	6
119620-79260	15	18
119620-79280	15	21
119620-79290	15	22
119620-79300	15	23
119620-79310	15	24
119620-79320	15	25
119620-79330	15	26
119620-79340	15	27
119620-79350	15	28
119620-79360	15	7
119625-11880	4	33
119802-01190	1	38
119802-01560	2	13
119802-03010	4	41
119802-03110	4	43
119802-03121	4	44
119802-03130	4	45
119802-03141	4	46
119802-11100	4	24
119802-11110	4	25
119802-11241	4	3
119802-11251	4	4
119802-11260	4	6

PARTS No.	Fig.	Ref.No.
119802-11270	4	7
119802-11280	4	8
119802-11310	4	49
119802-11650	4	10
119802-11700	4	15
119802-11810	4	21
119802-11870	4	32
119802-11900	4	34
119802-12120	5	3
119802-13640	6	3
119802-14580	7	3
119802-21002	8	1
119802-21202	8	5
119802-22080	8	17
119802-22500	8	19
119802-25051	7	10
119802-25070	7	14
119802-25100	7	11
119802-25901	7	17
119802-32070	2	8
119802-32100	2	7
119802-32111	2	18
119802-32120	2	19
119802-32130	2	20
119802-35100	10	9
119802-35110	10	10
119802-39450	10	17
119802-51250	12	1
119802-53100	13	6
119802-59550	13	48
119802-59560	13	50
119802-59810	13	35
119802-59820	13	39
119802-59830	13	43
119810-01200	1	30
119810-01730	3	5
119810-02870	1	32
119810-02930	1	27
119810-02940	1	35
119810-11120	4	26
119810-13110	6	2
119810-14400	7	2
119810-23200	8	30
119810-23600	8	31
119810-23610	8	33
119810-23910	8	29
119810-35401	10	4
119810-42051	11	3
119810-42120	11	4
119810-42281	11	8

PARTS No.	Fig.	Ref.No.
119810-42290	11	9
119810-77340	15	32
119812-01330	1	31
119813-12110	5	5
119813-22300	8	23
119831-42290	11	21
119852-01600	3	2
119852-01770	3	7
119852-11350	4	40
119852-13220	6	6
119852-13520	6	8
119852-21592	8	13
119852-21650	8	9
119852-34811	10	1
119852-42010	11	1
119852-49300	11	12
119852-49530	11	27
119852-77330	15	1
119888-13101	6	1
120270-54410	4	35
121023-01550	2	28
121111-21501	8	12
121267-44741	11	22
121520-34810	10	2
121550-49111	11	31
121850-21680	8	11
121850-51960	2	21
123501-79240	15	5
124060-01050	1	6
124060-11800	4	19
124060-77680	13	55
124160-01751	2	14
124160-01910	1	4
		14
124160-11340	4	28
124160-11360	4	52
124160-39140	10	16
124195-77770	14	23
124240-01871	2	15
124240-01883	9	1
124250-49351	11	34
124465-44950	11	33
124550-21600	8	16
124722-59050	13	49
		52
124950-11340	4	29
129001-01250	1	7
129001-32330	2	11
129001-91841	2	22
129004-01520	2	12

PARTS No.	Fig.	Ref.No.
129004-13200	6	7
129005-03080	5	1
129005-59830	10	18
129052-77010	14	1
129052-77030	14	18
129052-79270	15	19
129054-01640	3	8
129054-42320	11	11
129055-49320	11	36
129100-01580	3	1
		13
	8	2
129100-01640	3	14
129100-35140	10	11
129107-44901	11	32
129120-77501	5	8
129150-01580	2	31
129150-01881	7	18
129150-02450	7	4
129150-03070	4	42
129150-11230	4	11
129150-11280	4	9
129150-11750	4	13
129150-14101	7	7
129150-14200	7	1
129150-25301	7	16
129150-26000	7	19
129150-26050	7	20
129150-35042	10	3
129150-35111	10	12
129150-35153	10	13
129150-49360	11	35
129150-49811	11	26
129150-59120	13	30
129150-59131	13	29
		33
129150-77511	5	9
129155-77060	14	25
129240-53001	13	2
129240-79300	15	14
129403-42380	11	20
129410-03990	5	2
129418-32320	2	10
129423-77200	15	2
129423-77710	15	17
129457-49801	11	25
129486-01670	3	17
129486-42050	11	15
129486-59551	13	51
129698-77020	14	21

PARTS No. INDEX

PARTS No.	Fig.	Ref.No.
129698-77101	14	2
129698-77110	14	3
129698-77120	14	4
129698-77130	14	5
129698-77140	14	6
129698-77150	14	7
129698-77161	14	8
129698-77170	14	9
129698-77180	14	10
129698-77190	14	11
129698-77200	14	12
129698-77210	14	13
129698-77220	14	14
129698-77230	14	15
129698-77240	14	16
129698-77250	14	17
129698-77270	14	20
129698-77280	14	22
129792-22400	8	24
129795-01780	3	16
129795-01800	2	6
129795-01900	15	31
129795-01950	2	16
129795-02411	1	13
129795-21661	8	10
129795-49551	11	28
129900-07900	4	1
129900-32130	2	9
158552-51151	7	23
171051-01921	1	5
194521-41570	9	7
		23
198172-41110	9	2
198280-41150	9	18
719802-01560	1	1
719802-22900	8	35
719802-22950	8	37
719810-02980	1	24
719810-23100	8	25
719852-51330	12	10
729004-01500	2	1
729240-53200	13	1
X2114274200	14	24
X2114535200	14	19
X9490561001	15	3

PARTS No.	Fig.	Ref.No.
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PARTS No.	Fig.	Ref.No.
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PARTS No.	Fig.	Ref.No.
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YANMAR CO.,LTD.



PARTS CATALOG

Published 2009/10 (Oct.)

0CNP4-G32000

Directions for the Parts Catalog.

1. The parts stipulated in this Parts Catalog are not necessarily standard equipped parts.
2. Parts may change without prior notice.
3. The following is an example of the Parts Catalog format.

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(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 Mark

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

Symbol	Interchangeability	Contents note
N	Old $\begin{matrix} \leftarrow \text{Yes} \\ \text{No} \rightarrow \end{matrix}$ New	New Part is interchangeable for Old Part but Old Part is not interchangeable for New Part.
Q	Old $\begin{matrix} \leftarrow \text{No} \\ \text{Yes} \rightarrow \end{matrix}$ New	New Part is not interchangeable for Old Part but Old Part is interchangeable for New Part.
R	Old $\begin{matrix} \leftarrow \text{Yes} \\ \text{Yes} \rightarrow \end{matrix}$ New	New/ Old Parts are both interchangeable.
S	Old $\begin{matrix} \leftarrow \text{No} \\ \text{No} \rightarrow \end{matrix}$ New	New/ Old Parts are both not interchangeable.
W		Part discontinued.
Z		Part newly added.
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)	Date

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

Note 2) " XXX " 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 Mark

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.

CONTENTS

MODEL : 3TNV84-NRE(N4322

PC NO : 0CNP4-G32000

Fig.No. GROUP NAME

ENGINE SECTION

1. CYLINDER BLOCK
2. GEAR HOUSING
3. MOUNTING FLANGE & OIL SUMP
4. CYLINDER HEAD & BONNET
5. SUCTION MANIFOLD
6. EXHAUST MANIFOLD & SILENCER
7. CAMSHAFT & DRIVING GEAR
8. CRANKSHAFT & PISTON
9. HYDRAULIC PUMP
10. LUB.OIL SYSTEM
11. COOLING WATER SYSTEM
12. FUEL INJECTION PUMP
13. FUEL INJECTION VALVE
14. STARTING MOTOR
15. GENERATOR
16. SHORT BLOCK

Fig.No. GROUP NAME

Fig.1. CYLINDER BLOCK

(A)=3TNV84-NRE

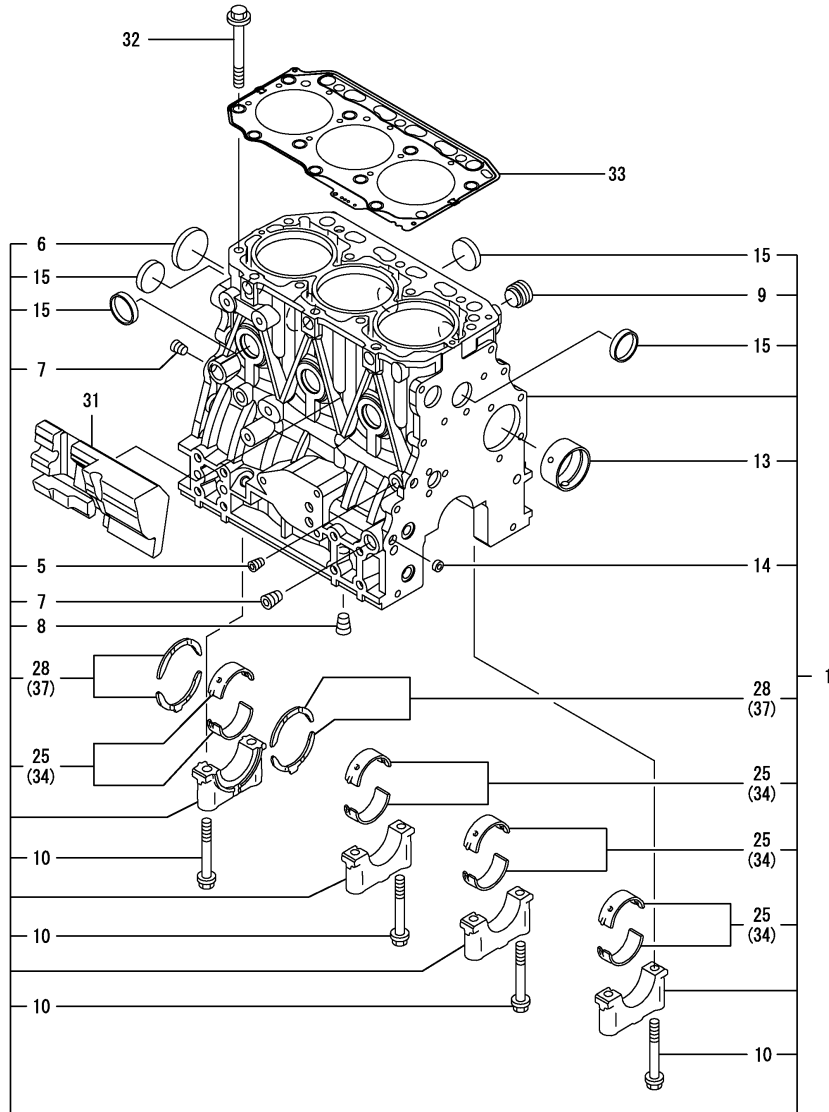
(B)=

(C)=

(D)=

(E)=

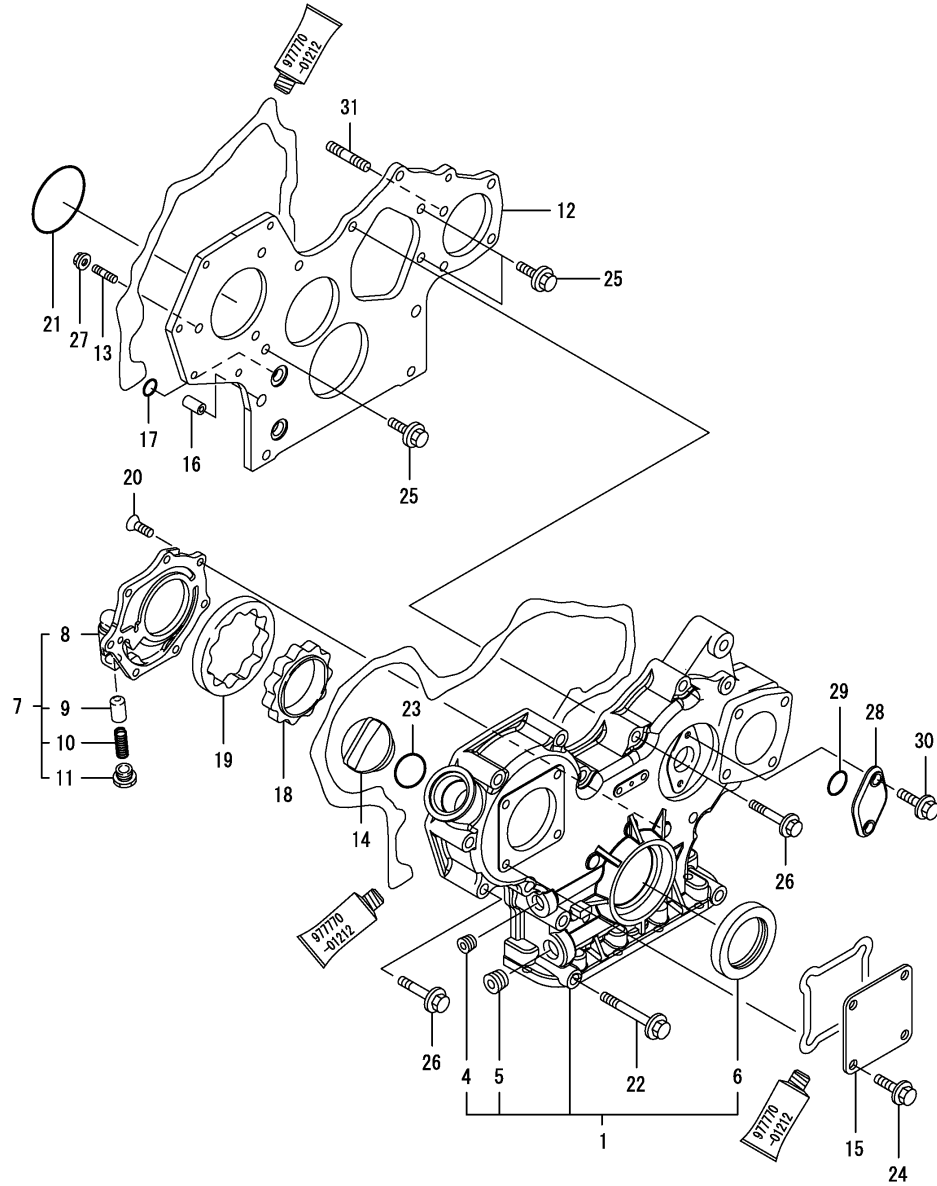
(F)=



REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729004-01560	BLOCK ASSY, CYLINDER	1							
5	2	124060-01050	PLUG PT1/8	1							
6	2	129001-01250	PLUG 50	1							
7	2	124160-01910	PLUG PT1/4	2							
8	2	124160-01910	PLUG PT1/4	1							
9	2	171051-01921	PLUG	1							
10	2	129150-02020	BOLT, METAL CAP	8							
13	2	129795-02411	BUSH, CAMSHAFT	1							
14	2	27241-120000	PLUG 12	2							
15	2	27241-300000	PLUG 30	6							
25	2	129001-02930	MAIN BEARING SET	4							3
28	2	129150-02930	METAL, THRUST	2							
31	1	129004-01190	SPACER	1							
32	1	129150-01200	STUD, CYL. HEAD	14							
33	1	129002-01331	GASKET, CYL. HEAD	1							
34	1	129150-02870	MAIN METAL US=0.25	4							1
37	1	129150-02940	METAL, THRUST.25(4PIE	1							2

Remarks
 (1) UNDER-SIZE(U.S=0.25)PART.
 (2) OVER-SIZE(O.S=0.25)PART.
 (3) REPAIR PART.
 (REMARKS)"EFFECTIVE MACHINE NO." OF
 ENGINE IS INDICATED ON THE
 ENGINE LABEL WHICH IS SHOWN
 IN FIG.4.

Fig.2. GEAR HOUSING



Remarks
 (REMARKS)"EFFECTIVE MACHINE NO." OF
 ENGINE IS INDICATED ON THE
 ENGINE LABEL WHICH IS SHOWN
 IN FIG.4.

0CNP4-G32000 2. GEAR HOUSING

(A)=3TNV84-NRE

(B)=

(C)=

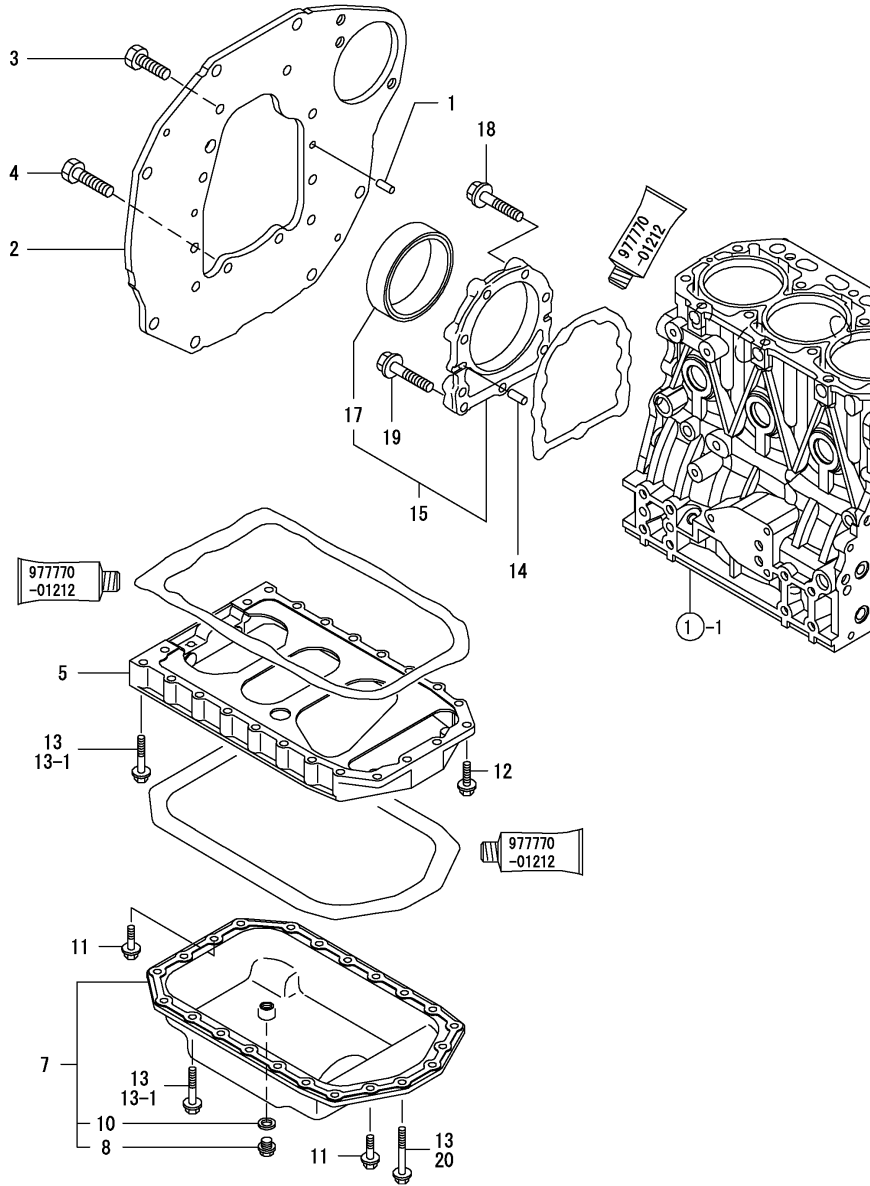
(D)=

(E)=

(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729004-01500	HOUSING ASSY, GEAR	1							
4	2	23876-030000	PLUG PT3/8,SCREW	1							
5	2	23876-040000	PLUG PT 1/2	1							
6	2	129795-01800	SEAL, OIL	1							
7	1	119802-32100	COVER ASSY, PUMP	1							
8	2	119802-32070	COVER, LUB.OIL PUMP	1							
9	2	129900-32130	VALVE, RELIEF	1							
10	2	129418-32320	SPRING	1							
11	2	129001-32330	PLUG	1							
12	1	129004-01520	FRANGE, GEAR CASE	1							
13	1	119802-01560	STUD, M8X25	3							
14	1	124160-01751	COVER,FILLER	1							
15	1	124240-01871	COVER, HO-P	1							
16	1	129795-01950	PIPE, KNOCK L=18	2							
17	1	119609-32040	O-RING P16	4							
18	1	119802-32111	ROTOR, INNER	1							
19	1	119802-32120	ROTOR, OUTER	1							
20	1	119802-32130	SCREW, M6X16	7							
21	1	121850-51960	O-RING, F.I.PUMP	1							
22	1	129001-91841	BOLT M 8X 85 PLATED	3							
23	1	24311-000320	O-RING 1A P-32.0	1							
24	1	26106-080162	BOLT M 8X 16 PLATED	4							
25	1	26106-080162	BOLT M 8X 16 PLATED	3							
26	1	26106-080552	BOLT M 8X 55 PLATED	11							
27	1	26306-080002	NUT	3							
28	1	121023-01550	COVER, BLIND	1							
29	1	24341-000240	O-RING 1A S-24.0	1							
30	1	26106-060162	BOLT M 6X 16 PLATED	2							
31	1	129150-01580	STUD 8 X 30	1							

Fig.3. MOUNTING FLANGE & OIL SUMP



Remarks
 (REMARKS)"EFFECTIVE MACHINE NO." OF
 ENGINE IS INDICATED ON THE
 ENGINE LABEL WHICH IS SHOWN
 IN FIG.4.

OCNP4-G32000 3. MOUNTING FLANGE & OIL SUMP

(A)=3TNV84-NRE

(B)=

(C)=

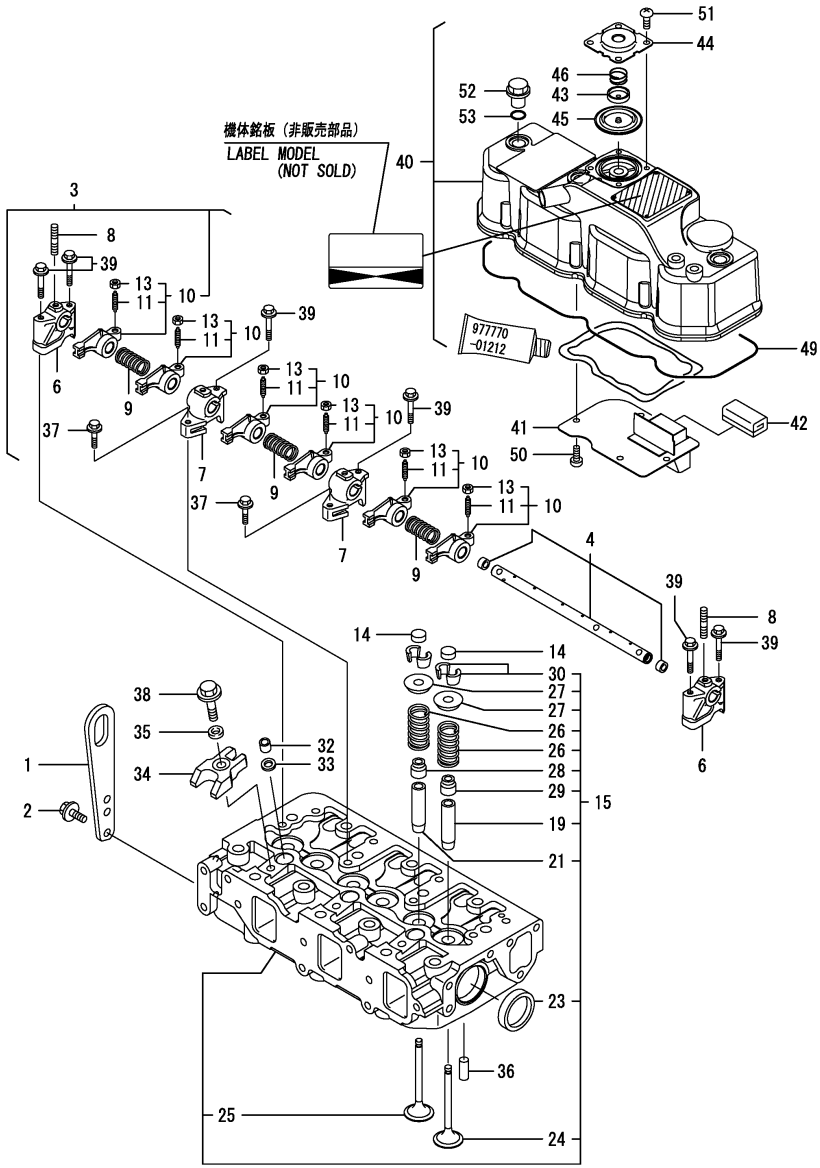
(D)=

(E)=

(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129100-01580	PARALLEL PIN 8X16	2							
2	1	119852-01600	FLANGE, MOUNTING	1							
3	1	26206-100202	BOLT M10X20	6							
4	1	26206-100252	BOLT M10X25	4							
5	1	129100-01730	SPACER, OIL SUMP	1							
7	1	129055-01770	SUMP, LUB.OIL	1							
8	2	129054-01640	DRAIN PLUG	1							
10	2	22190-120002	SEAL WASHER 12	1							
11	1	26106-080162	BOLT M 8X 16 PLATED	4							
12	1	26106-080252	BOLT M 8X 25 PLATED	2							
13	1	26106-080452	BOLT M 8X 45 PLATED	20							
13-1	1	26106-080452	BOLT M 8X 45 PLATED	16							K
(A=FROM 1ST)											
14	1	129100-01580	PARALLEL PIN 8X16	2							
15	1	129100-01640	CASE ASSY, OIL SEAL	1							
17	2	129795-01780	SEAL, OIL	1							
18	1	129486-01670	BOLT M8X30,COLLAR HD	6							
19	1	26106-080352	BOLT M 8X 35 PLATED	3							
20	1	26106-080502	BOLT M 8X 50 PLATED	4							W
(A=FROM 1ST)											

Fig.4. CYLINDER HEAD & BONNET



OCNP4-G32000 4. CYLINDER HEAD & BONNET

(A)=3TNV84-NRE

(B)=

(C)=

(D)=

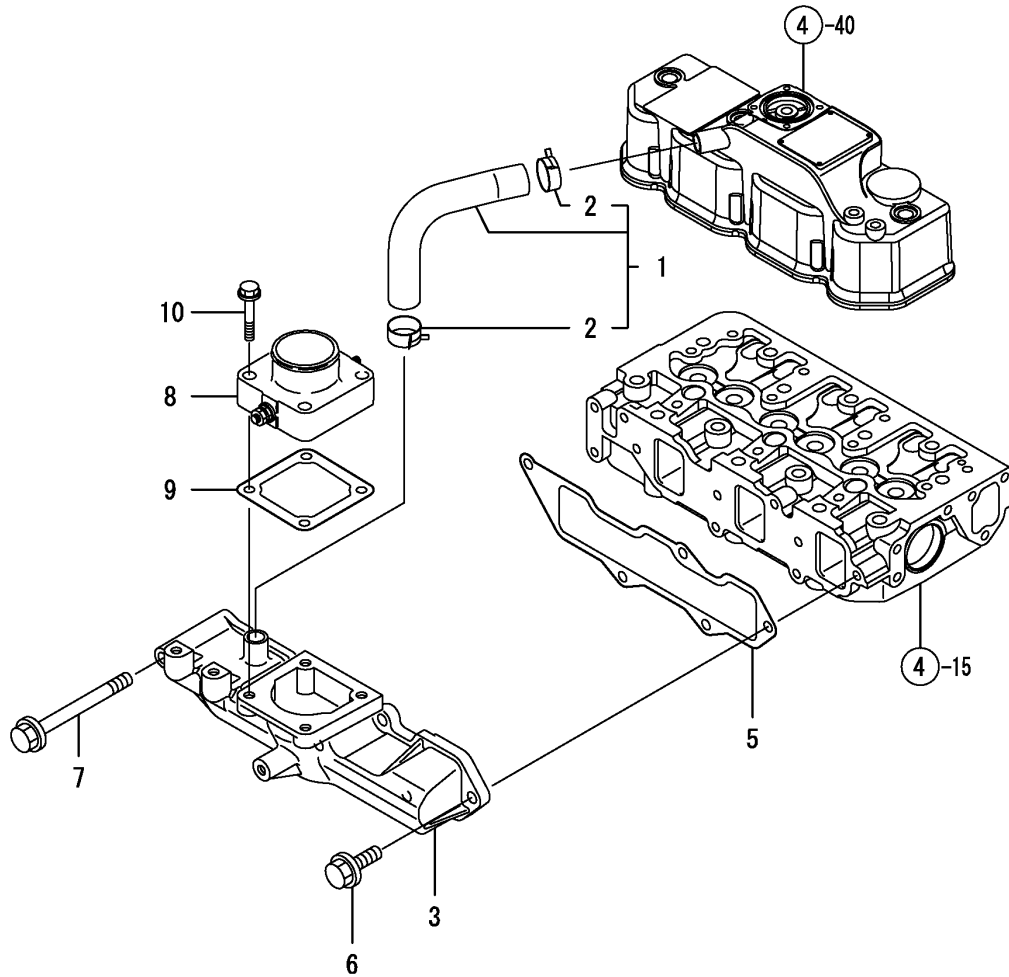
(E)=

(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129900-07900	LIFTER, ENGINE	1							
2	1	26106-080142	BOLT 8X 14 PLATED	2							
3	1	129004-11241	SHAFT ASSY, ROCKER	1							
4	2	129004-11251	SHAFT, ROCKER ARM	1							
6	2	119802-11260	SUPPORT, ROCKER ARM	2							
7	2	119802-11270	SUPPORT, ROCKER ARM	2							
8	2	119802-11280	STUD	3							
9	2	129150-11280	SPRING	3							
10	2	129004-11650	ARM ASSY, ROCKER	6							
11	3	129150-11230	SCREW, VALVE	6							
13	3	129150-11750	NUT M8XP1.0	6							
14	1	129150-11370	CAP, VALVE	6							
15	1	129004-11700	HEAD ASSY, CYLINDER	1							
19	2	120130-11860	GUIDE, VALVE	3							1
21	2	129150-11810	GUIDE, VALVE	3							1
23	2	27241-400000	PLUG 40	2							
24	2	129004-11101	VALVE, INTAKE	3							
25	2	129100-11111	VALVE, EXHAUST	3							
26	2	129795-11120	SPRING, VALVE	6							
27	2	129795-11180	RETAINER, SPRING	6							
28	2	121400-11340	SEAL, VALVE STEM	3							
29	2	124460-11340	SEAL, VALVE STEM	3							
30	2	27310-080001	COTTER 8	6							
32	1	119802-11870	PROTECTOR, NOZZLE	3							
33	1	119625-11880	SEAT, NOZZLE	3							
34	1	129004-11900	RETAINER, NOZZLE	3							
35	1	120270-54410	WASHER	3							
36	1	22351-060012	SPRING PIN 6X12	2							
37	1	26106-080252	BOLT M 8X 25 PLATED	2							
38	1	26106-080352	BOLT M 8X 35 PLATED	3							
39	1	26106-080502	BOLT M 8X 50 PLATED	6							
40	1	129055-11350	BONNET ASSY, HEAD	1							
41	2	129004-03010	PLATE, BAFFLE	1							
42	2	129150-03070	BAFFLE, BREATHER	1							
43	2	119802-03110	PLATE, DIAPHRAGM	1							
44	2	119802-03121	COVER, DIAPHRAGM	1							
45	2	119802-03130	DIAPHRAGM	1							
46	2	119802-03141	SPRING, DIAPHRAGM	1							
49	2	129004-11310	GASKET, BONNET	1							
50	2	22857-500100	SCREW 5X10,TAPPING	4							
51	2	22857-500100	SCREW 5X10,TAPPING	4							
52	1	124160-11360	KNOB	3							
53	1	24311-000120	O-RING 1A P 12.0	3							

Remarks
 (1) REPAIR PART.
 (REMARKS)"EFFECTIVE MACHINE NO." OF ENGINE IS INDICATED ON THE ENGINE LABEL WHICH IS SHOWN IN FIG.4.

Fig.5. SUCTION MANIFOLD



0CNP4-G32000 5. SUCTION MANIFOLD

(A)=3TNV84-NRE
(B)=
(C)=

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

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129005-03080	PIPE, BREATHER	1							
2	2	129410-03990	CLAMP 22	2							
3	1	129005-12100	MANIFOLD, INTAKE	1							
5	1	129001-12110	GASKET,INT. MANIFOLD	1							
6	1	26106-080202	BOLT M 8X 20 PLATED	4							
7	1	26106-080802	BOLT M 8X 80 PLATED	1							
8	1	129120-77501	HEATER, AIR	1							
9	1	129150-77511	GASKET, (NON-ASB.)	1							
10	1	26106-080352	BOLT M 8X 35 PLATED	4							

Remarks
(REMARKS)"EFFECTIVE MACHINE NO." OF
ENGINE IS INDICATED ON THE
ENGINE LABEL WHICH IS SHOWN
IN FIG.4.

Fig.6. EXHAUST MANIFOLD & SILENCER

0CNP4-G32000 6. EXHAUST MANIFOLD & SILENCER

(A)=3TNV84-NRE

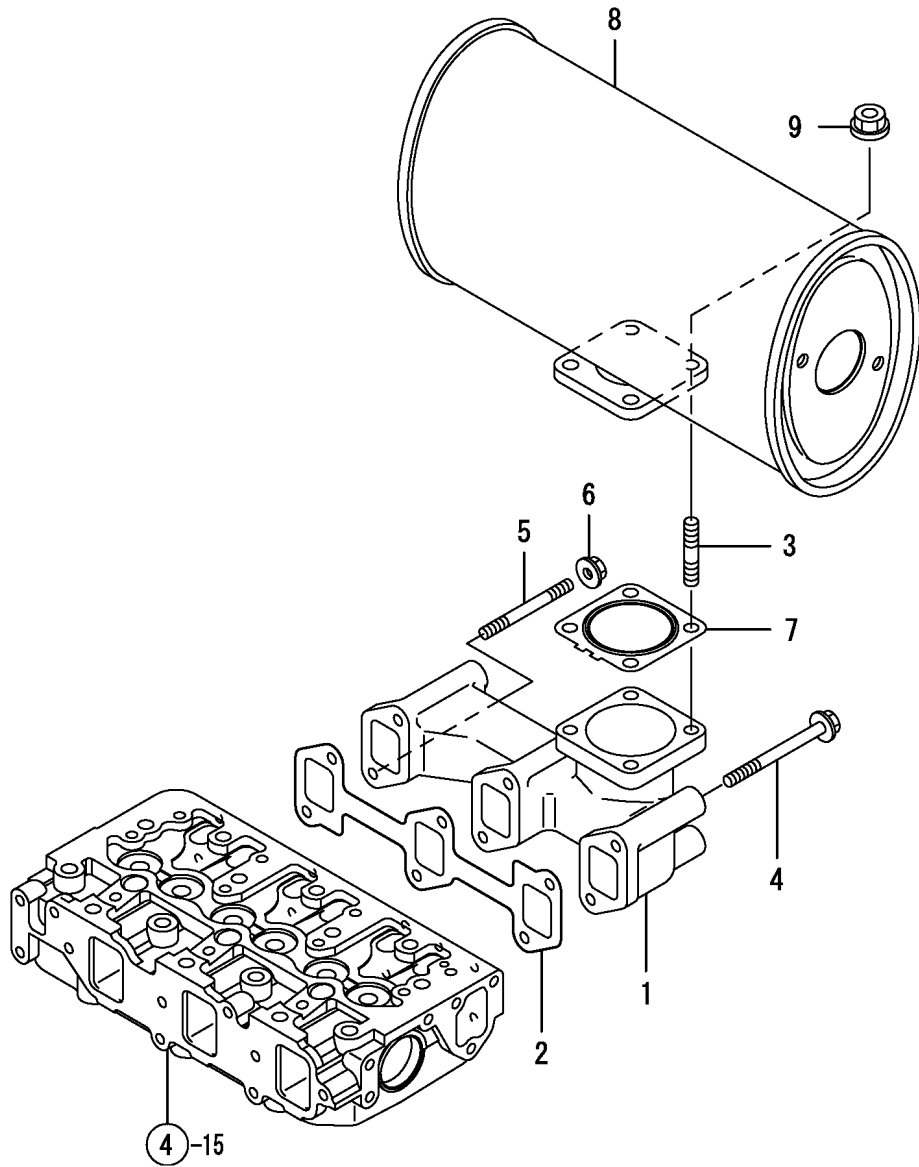
(B)=

(C)=

(D)=

(E)=

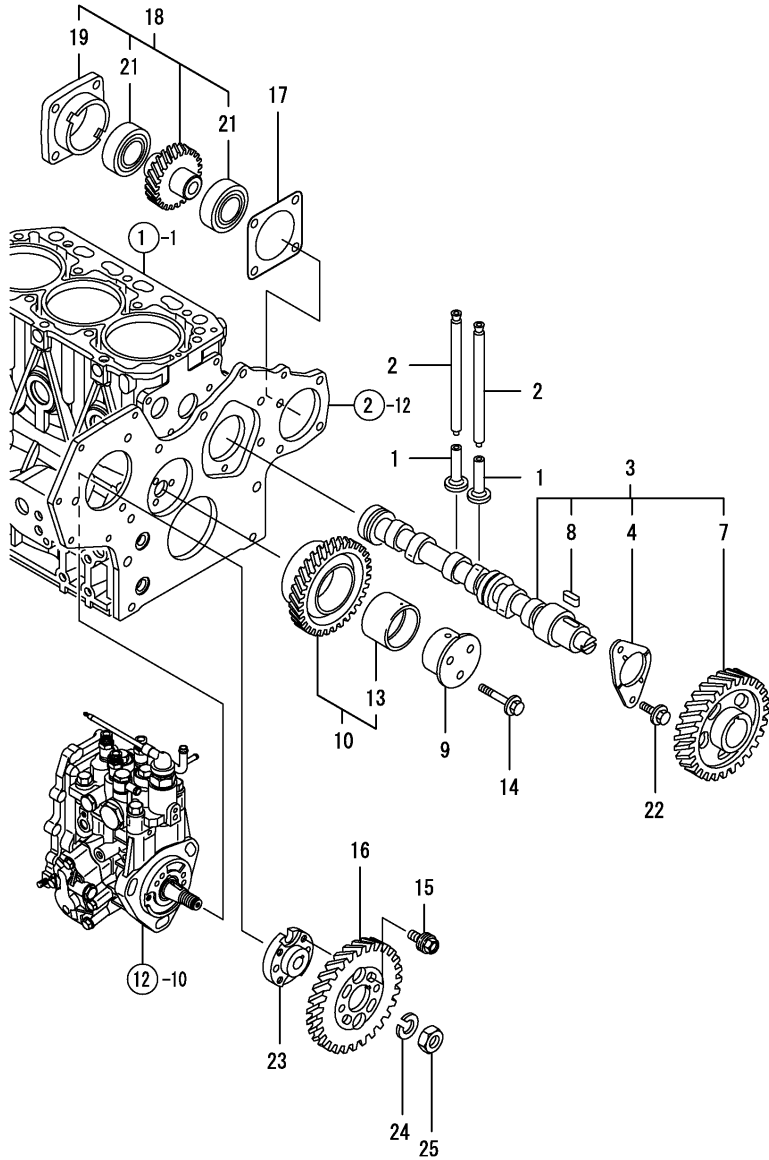
(F)=



REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R	
				(A)	(B)	(C)	(D)	(E)	(F)			
1	1	171350-13100	MANIFOLD, EXHAUST	1								
2	1	129150-13110	GASKET, EXH.MANIFOLD	1								
3	1	119131-18320	BOLT M 8X 22	4								
4	1	123900-13630	BOLT 8X80	4								
5	1	129263-13220	BOLT M8X95	2								
6	1	26306-080002	NUT	2								
7	1	129004-13200	GASKET, SILENCER	1								
8	1	129055-13521	SILENCER	1								
9	1	26306-080002	NUT	4								

Remarks
 (REMARKS)"EFFECTIVE MACHINE NO." OF
 ENGINE IS INDICATED ON THE
 ENGINE LABEL WHICH IS SHOWN
 IN FIG.4.

Fig.7. CAMSHAFT & DRIVING GEAR



OCNP4-G32000 7. CAMSHAFT & DRIVING GEAR

(A)=3TNV84-NRE

(B)=

(C)=

(D)=

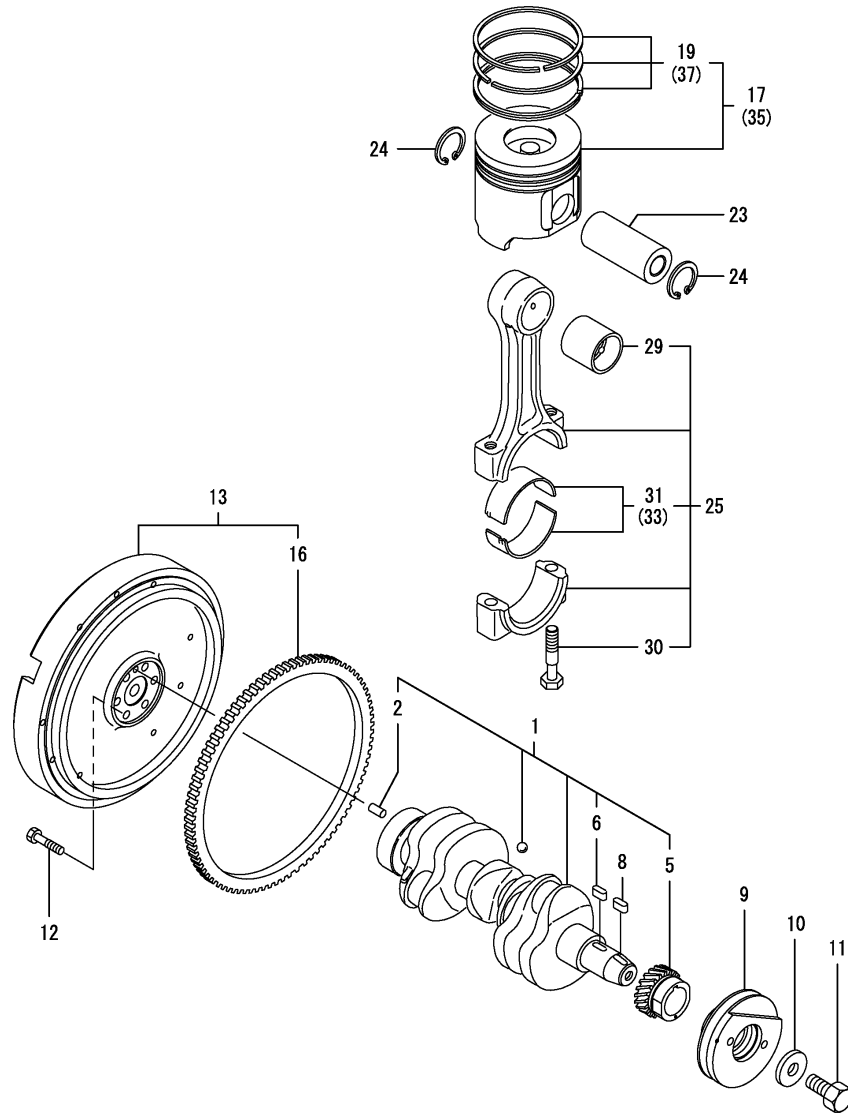
(E)=

(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129150-14200	TAPPET	6							
2	1	129150-14400	ROD, PUSH	6							
3	1	129129-14580	CAMSHAFT ASSY	1							
4	2	129150-02450	METAL,THRUST(CAM	1							
7	2	129150-14101	GEAR, CAMSHAFT	1							
8	2	22512-070140	KEY 7X 14	1							
9	1	119802-25051	SHAFT, IDLE GEAR	1							
10	1	119802-25100	GEAR ASSY, IDLE	1							
13	2	119802-25070	BUSH, IDLE GEAR	1							1
14	1	26106-080402	BOLT M 8X 40 PLATED	3							
15	1	129150-25301	BOLT,FI-P	4							
16	1	119802-25901	GEAR, PUMP	1							
17	1	129150-01881	GASKET, (NON ASB.)	1							
18	1	129150-26000	DRIVING SET, HO-PUMP	1							
19	2	129150-26050	BRACKET, HO-P	1							
21	2	24105-060064	BALL BEARING	2							
22	1	26106-080142	BOLT 8X 14 PLATED	2							
23	1	158552-51151	FLANGE	1							
24	1	22217-140000	SPRING WASHER 14	1							
25	1	26776-140002	LOCK NUT M14 PLATED	1							

Remarks
 (1) REPAIR PART.
 (REMARKS)"EFFECTIVE MACHINE NO." OF
 ENGINE IS INDICATED ON THE
 ENGINE LABEL WHICH IS SHOWN
 IN FIG.4.

Fig.8. CRANKSHAFT & PISTON



0CNP4-G32000 8. CRANKSHAFT & PISTON

(A)=3TNV84-NRE

(B)=

(C)=

(D)=

(E)=

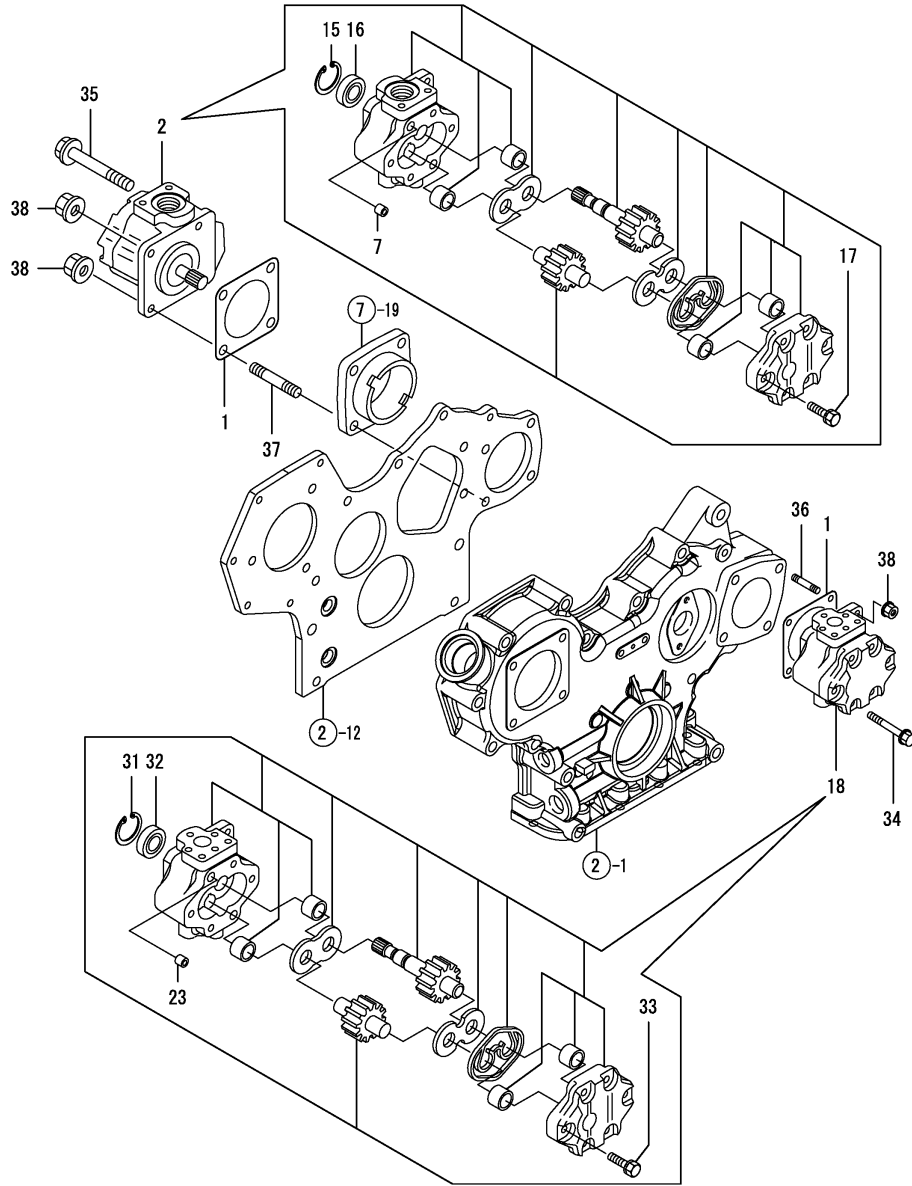
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129004-21002	CRANKSHAFT ASSY	1							
2	2	129100-01580	PARALLEL PIN 8X16	1							
5	2	119802-21202	GEAR, CRANKSHAFT	1							
6	2	22512-070140	KEY 7X 14	1							
8	1	22512-070140	KEY 7X 14	1							
9	1	129055-21650	V-PULLEY, CRANKSHAFT	1							
10	1	129795-21661	WASHER	1							
11	1	121850-21680	BOLT, V-PULLEY	1							
12	1	121111-21501	BOLT, FLYWHEEL	6							
13	1	129055-21592	FLYWHEEL ASSY	1							
16	2	124550-21600	RING GEAR	1							
17	1	129004-22080	PISTON W/RING	3							
19	2	129004-22500	RING SET	3							
23	1	129202-22300	PIN, PISTON(D26,L70)	3							
24	1	22252-000260	CIRCLIP 26	6							
25	1	729402-23100	ROD ASSY, CONNECTING	3							
29	2	129100-23910	BUSH, PISTON PIN	3							1
30	2	121550-23200	BOLT, CONNECTING ROD	6							
31	2	129150-23600	METAL, CRANKPIN	3							
33	1	129150-23610	METAL.PIN US=0.25	3							2
35	1	129004-22900	PISTON W/RING OS=.25	3							3
37	2	129004-22950	RING SET O.S=0.25	3							3

Remarks

(1) REPAIR PART.
 (2) UNDER-SIZE(U.S=0.25)PART.
 (3) OVER-SIZE(O.S=0.25)PART.
 (REMARKS)"EFFECTIVE MACHINE NO." OF
 ENGINE IS INDICATED ON THE
 ENGINE LABEL WHICH IS SHOWN
 IN FIG.4.

Fig.9. HYDRAULIC PUMP



(A)=3TNV84-NRE
(B)=
(C)=

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

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	124240-01883	GASKET, (NON-ASB.)	2							
2	1	198172-41110	PUMP, HYDRAULIC	1							
7	2	194521-41570	PIN 11X7	2							
15	2	22252-000320	CIRCLIP 32	1							
16	2	24421-153207	SEAL TC15 32 07, OIL	1							
17	2	26016-080352	BOLT M 8X 35	4							
18	1	198280-41150	PUMP ASSY, HYD. OIL	1							
23	2	194521-41570	PIN 11X7	2							
31	2	22252-000320	CIRCLIP 32	1							
32	2	24421-153207	SEAL TC15 32 07, OIL	1							
33	2	26016-080352	BOLT M 8X 35	4							
34	1	26106-080802	BOLT M 8X 80 PLATED	2							
35	1	26106-080952	BOLT M 8X 95 PLATED	2							
36	1	26216-080222	STUD M 8X 22 PLATED	2							
37	1	26216-080402	STUD M 8X 40 PLATED	1							
38	1	26306-080002	NUT	4							

Remarks
(REMARKS)"EFFECTIVE MACHINE NO." OF
ENGINE IS INDICATED ON THE
ENGINE LABEL WHICH IS SHOWN
IN FIG.4.

Fig.10. LUB.OIL SYSTEM

(A)=3TNV84-NRE

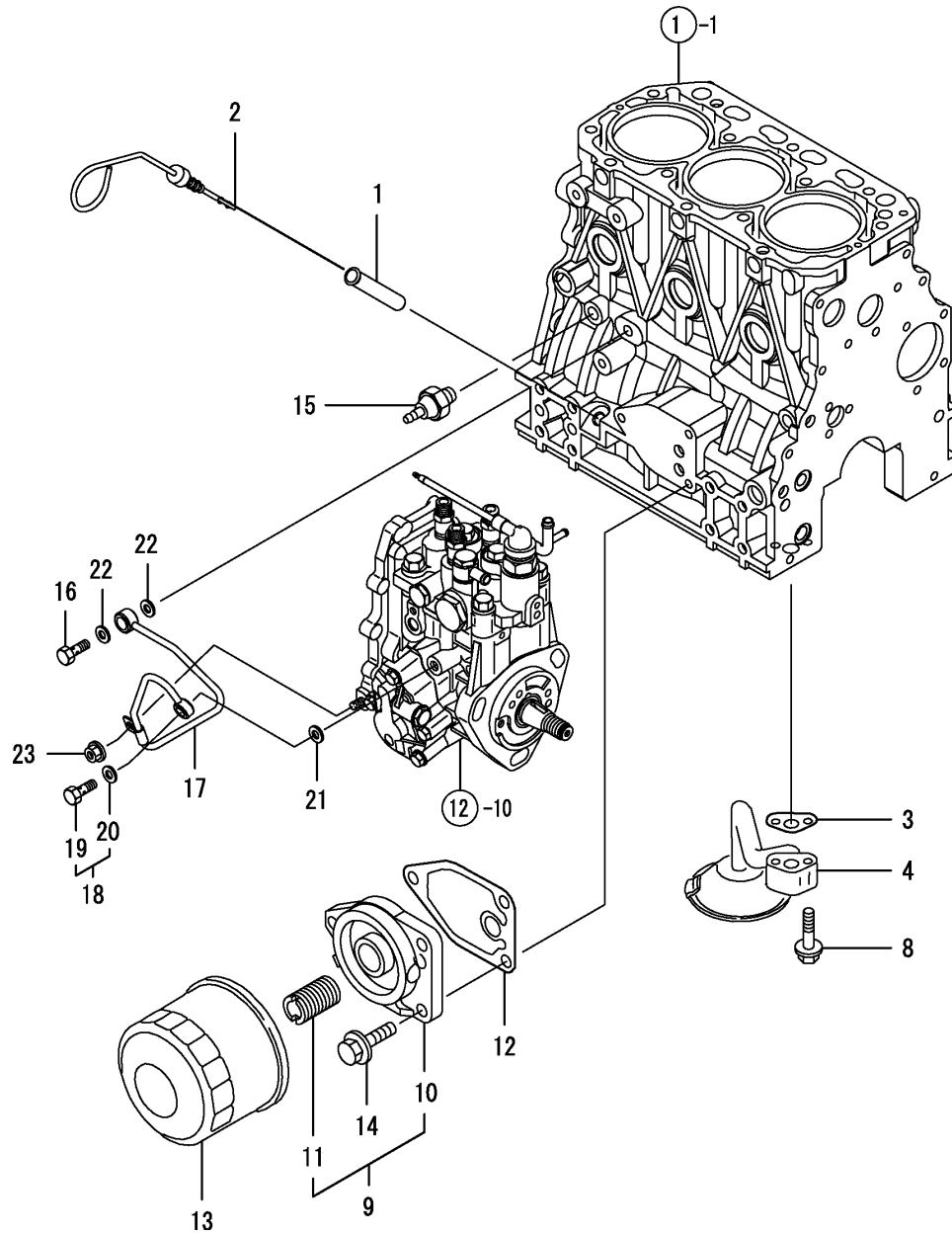
(B)=

(C)=

(D)=

(E)=

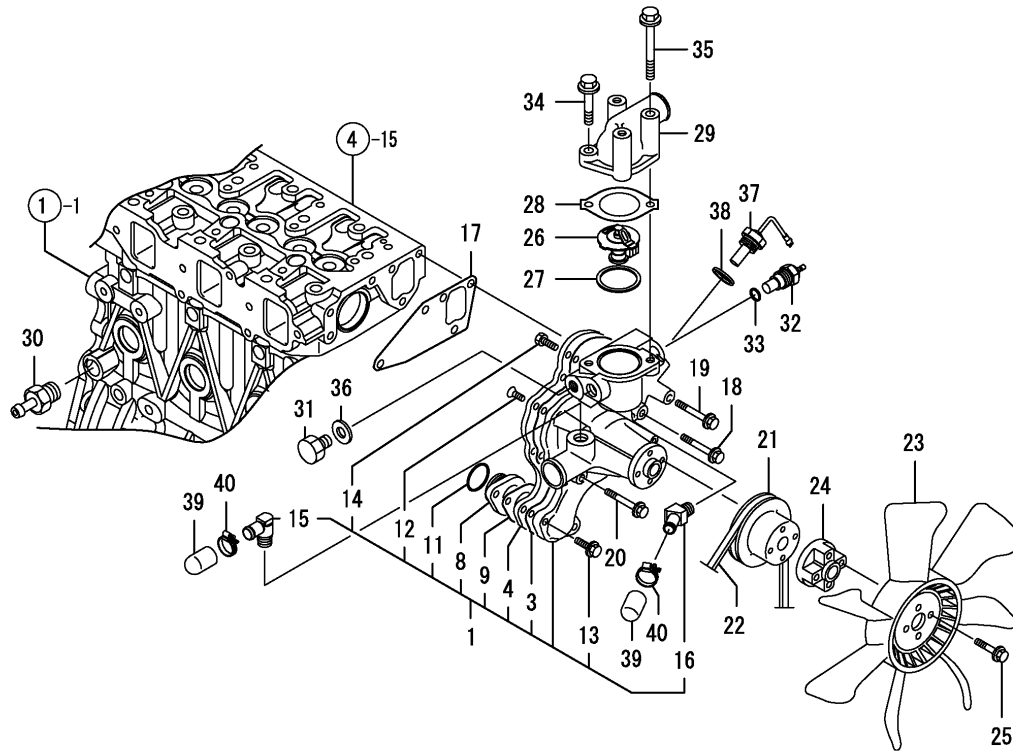
(F)=



REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	121520-34810	GUIDE, DIPSTICK	1							
2	1	129055-34811	DIPSTICK, LUB.OIL	1							
3	1	129150-35042	GASKET, (NON-ASB.)	1							
4	1	129150-35091	PIPE ASSY, OIL INLET	1							
8	1	26106-080352	BOLT M 8X 35 PLATED	2							
9	1	119802-35100	BRACKET ASSY, FILTER	1							
10	2	119802-35110	BRACKET, FILTER	1							
11	2	129100-35140	STUD	1							
12	1	129150-35111	GASKET, (NON-ASB.)	1							
13	1	129150-35153	FILTER 80X80L	1							1
14	1	26106-080202	BOLT M 8X 20 PLATED	3							
15	1	114250-39450	SWITCH,(0.5KG)L.O.	1							
16	1	124160-39140	BOLT 10, PIPE JOINT	1							
17	1	119802-39450	PIPE ASSY, LUB. OIL	1							
18	1	129005-59830	BOLT ASSY, JOINT	1							
19	2	23857-030000	JOINT BOLT 3	1							
20	2	22190-080002	SEAL WASHER 8S	1							
21	1	22190-080002	SEAL WASHER 8S	1							
22	1	22190-100002	SEAL WASHER 10S	2							
23	1	26366-060002	NUT M 6	1							

Remarks
(1) REPAIR PART.

Fig.11. COOLING WATER SYSTEM



OCNP4-G32000 11. COOLING WATER SYSTEM

(A)=3TNV84-NRE

(B)=

(C)=

(D)=

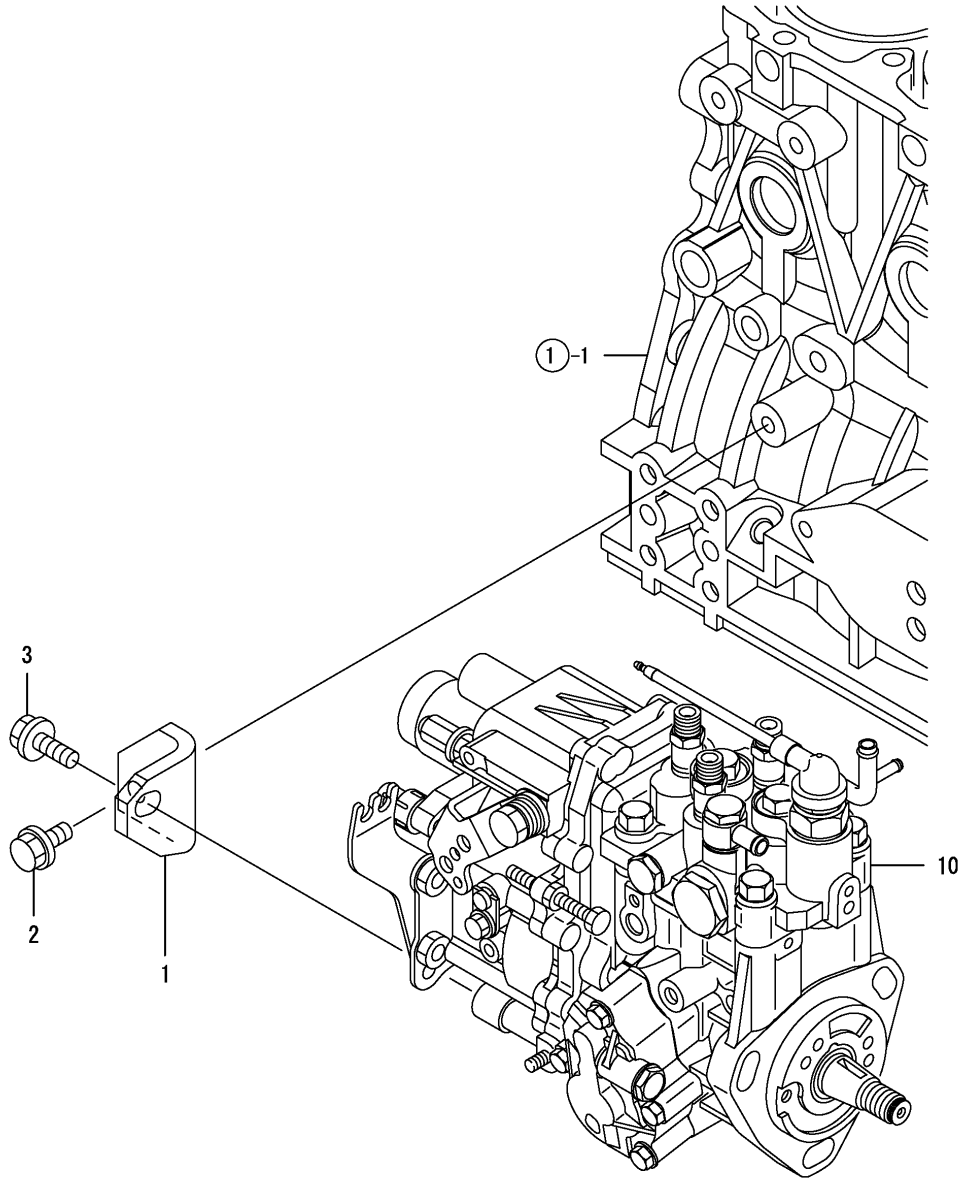
(E)=

(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129055-42010	PUMP ASSY, WATER	1							
3	2	129457-42050	PACKING	1							
I 4	2	129457-42120	PLATE	1							
8	2	129150-42300	FLANGE, C. W. PUMP	1							
9	2	129150-42311	GASKET, (NON-ASB.)	1							
11	2	129054-42320	O-RING	1							
I 12	2	121850-42410	SCREW	1							
13	2	26106-060202	BOLT M 6X 20 PLATED	2							
14	2	26116-060162	BOLT 6X16	5							
15	2	119852-49300	ELBOW R3/8	1							
16	2	129055-49300	ELBOW, R3/8	1							
17	1	129486-42050	GASKET	1							
18	1	26106-080552	BOLT M 8X 55 PLATED	2							
19	1	26106-080602	BOLT M 8X 60 PLATED	1							
20	1	26106-080702	BOLT M 8X 70 PLATED	1							
21	1	129550-42350	V-PULLEY(D=120)	1							
22	1	25132-003900	V-BELT (A-39)	1							
23	1	129556-44740	FAN, COOLING	1							
24	1	171353-44760	SPACER	1							
25	1	26106-060402	BOLT M 6X 40 PLATED	4							
26	1	129457-49801	THERMOSTAT(82	1							
27	1	129150-49811	GASKET, (NON-ASB.)	1							
28	1	129795-49551	GASKET, (NON-ASB.)	1							
29	1	119852-49530	COVER, THERMOSTAT	1							
30	1	121550-49111	JOINT PT1/4	1							
31	1	129054-42450	PLUG, M12X1.5	1							
32	1	124250-49351	THERMOMETER	1							
33	1	129150-49360	GASKET 10	1							
34	1	26106-080282	BOLT M 8X 28 PLATED	1							
35	1	26106-080652	BOLT M 8X 65 PLATED	1							
36	1	22190-120002	SEAL WASHER 12	1							
37	1	129107-44901	SENSOR,HOT WATER	1							
38	1	124465-44950	GASKET 16	1							
39	1	129055-49320	CAP, ELBOW	2							
40	1	23000-022000	CLAMP 22	2							

Remarks
 (REMARKS)"EFFECTIVE MACHINE NO." OF
 ENGINE IS INDICATED ON THE
 ENGINE LABEL WHICH IS SHOWN
 IN FIG.4.

Fig.12. FUEL INJECTION PUMP



0CNP4-G32000 12. FUEL INJECTION PUMP

(A)=3TNV84-NRE
(B)=
(C)=

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

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R	
				(A)	(B)	(C)	(D)	(E)	(F)			
1	1	119802-51250	BRACKET, PUMP	1								
2	1	26106-080162	BOLT M 8X 16 PLATED	1								
3	1	26106-080202	BOLT M 8X 20 PLATED	1								
10	1	729055-51350	INJECTION PUMP ASSY	1								

Remarks
(REMARKS)"EFFECTIVE MACHINE NO." OF
ENGINE IS INDICATED ON THE
ENGINE LABEL WHICH IS SHOWN
IN FIG.4.

Fig.13. FUEL INJECTION VALVE

(A)=3TNV84-NRE

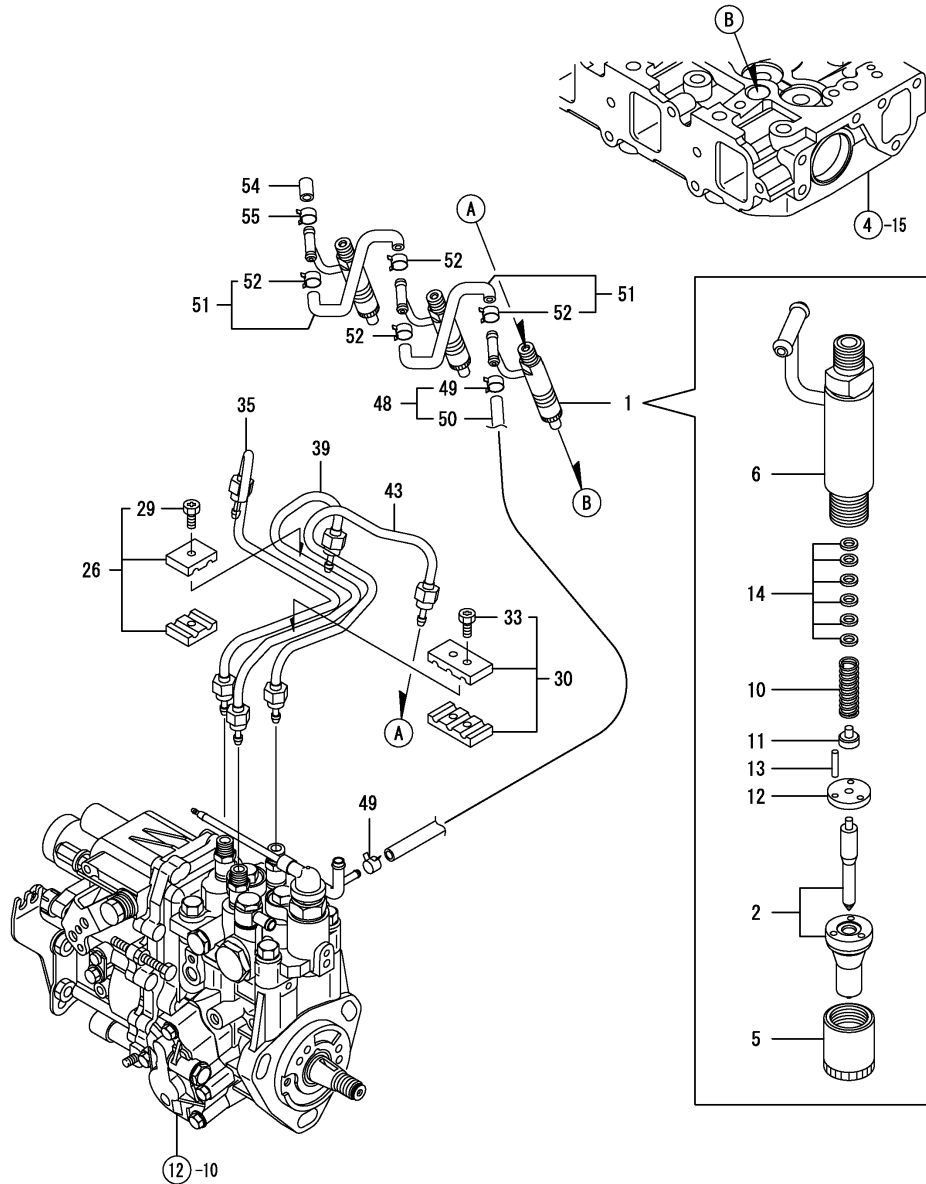
(B)=

(C)=

(D)=

(E)=

(F)=



REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729244-53100	FUEL INJECTOR(WBC	3							
2	2	129234-53001	NOZZLE CMP	3							
5	2	114250-53080	NUT, NOZZLE CASE	3							
6	2	119802-53100	HOLDER ASSY, NOZZLE	3							
10	2	114250-53120	SPRING, NOZZLE	3							
11	2	114250-53130	SEAT, NOZZLE SPRING	3							
12	2	114250-53140	PLATE, STOP	3							
13	2	114250-53210	PIN	6							
14	2	114250-53400	SHIM PACK	3							
26	1	119305-59120	RETAINER	1							
29	2	129150-59131	BOLT M4X14,HEX.SCKT.	1							
30	1	129150-59120	RETAINER, INJ. PIPE	1							
33	2	129150-59131	BOLT M4X14,HEX.SCKT.	2							
I 35	1	129004-59810	PIPE ASSY, INJECTION	1							
I 39	1	129004-59820	PIPE ASSY, INJECTION	1							
I 43	1	129004-59830	PIPE ASSY, INJECTION	1							
48	1	119802-59550	PIPE ASSY, RETURN	1							
49	2	124722-59050	CLAMP 9	2							
50	2	119802-59560	PIPE, FUEL RETURN	1							
51	1	129486-59551	PIPE, FUEL RETURN	2							
52	2	124722-59050	CLAMP 9	4							
54	1	119593-59580	CAP	1							
55	1	124060-77680	CLAMP 10	1							

Remarks
 (REMARKS)"EFFECTIVE MACHINE NO." OF
 ENGINE IS INDICATED ON THE
 ENGINE LABEL WHICH IS SHOWN
 IN FIG.4.

Fig.14. STARTING MOTOR

(A)=3TNV84-NRE

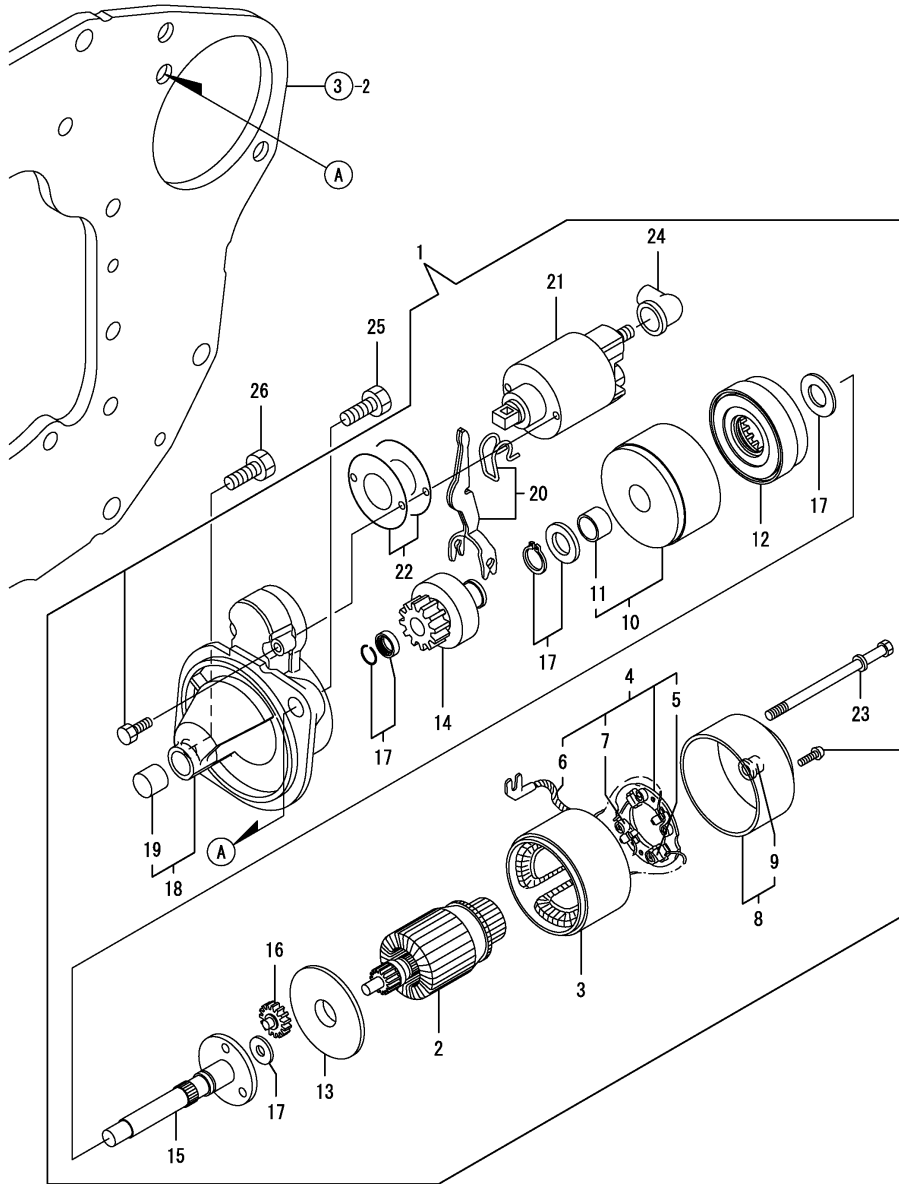
(B)=

(C)=

(D)=

(E)=

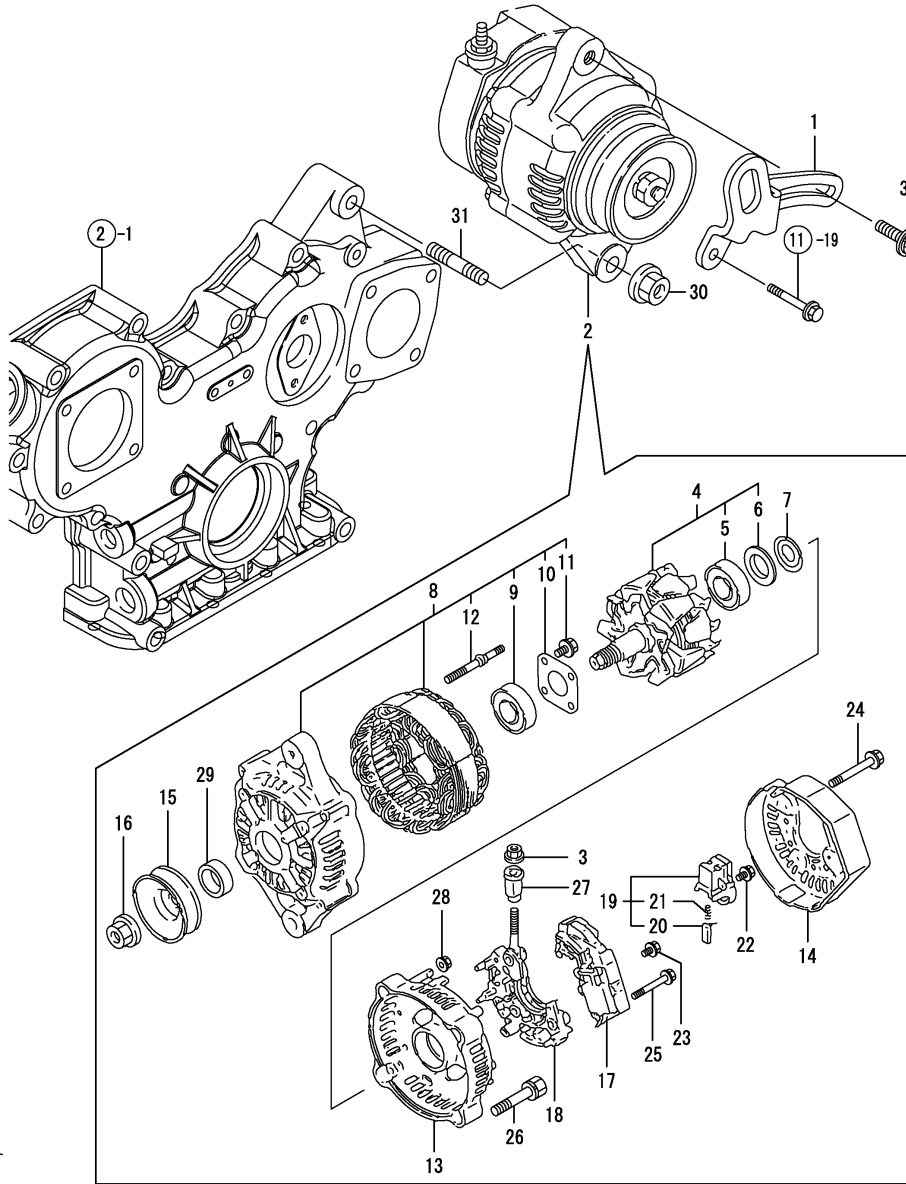
(F)=



REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129052-77010	STARTER	1							
2	2	129698-77101	ARMATURE ASSY	1							
3	2	129698-77110	COIL ASSY, FIELD	1							
4	2	129698-77120	HOLDER ASSY,BRUSH	1							
5	3	129698-77130	BRUSH (-)	2							
6	3	129698-77140	BRUSH(+) SET	1							
7	3	129698-77150	SPRING, BRUSH	4							
8	2	129698-77161	COVER ASSY, REAR	1							
9	3	129698-77170	REAR COVER METAL	1							
10	2	129698-77180	BRACKET	1							
11	3	129698-77190	BRACKET	1							
12	2	129698-77200	INTERNAL GEAR	1							
13	2	129698-77210	BRACKET	1							
14	2	129698-77220	PINION ASSY	1							
15	2	129698-77230	SHAFT(PINION)	1							
16	2	129698-77240	GEAR	3							
17	2	129698-77250	WASHER SET	1							
18	2	129052-77030	HOUSING ASSY, GEARS	1							
19	3	X2114535200	METAL, STARTER	1							
20	2	129698-77270	LEVER, SHIFT	1							
21	2	129698-77020	MAGNETIC SWITCH ASSY	1							
22	2	129698-77280	COVER ASSY, DUST	1							
23	2	124195-77770	THROUGH BOLT	2							
24	2	X2114274200	COVER, TERMINAL	1							
25	1	129155-77060	BOLT, STARTER	1							
26	1	26116-120202	BOLT M12X 20 PLATED	1							

Remarks
 (REMARKS)"EFFECTIVE MACHINE NO." OF
 ENGINE IS INDICATED ON THE
 ENGINE LABEL WHICH IS SHOWN
 IN FIG.4.

Fig.15. GENERATOR



(A)=3TNV84-NRE

(B)=

(C)=

(D)=

(E)=

(F)=

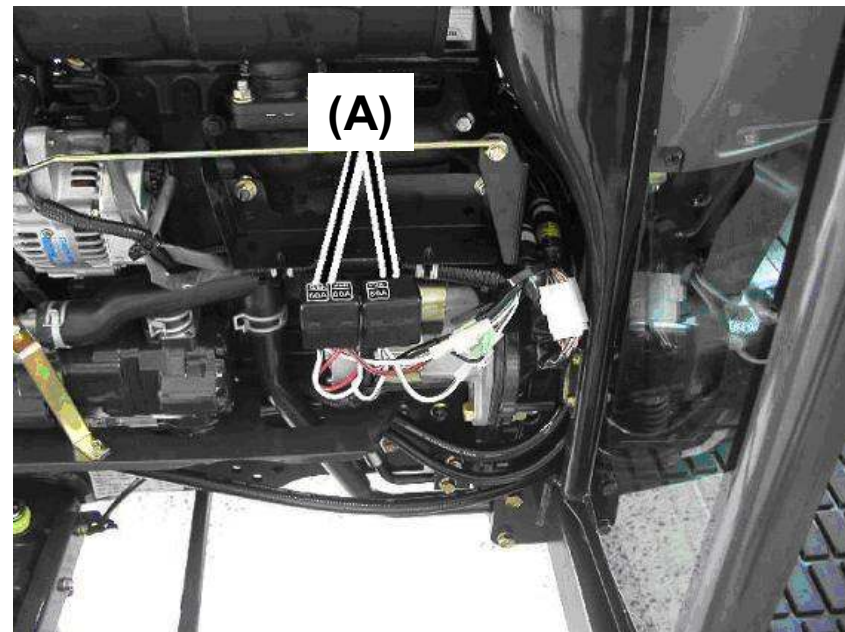
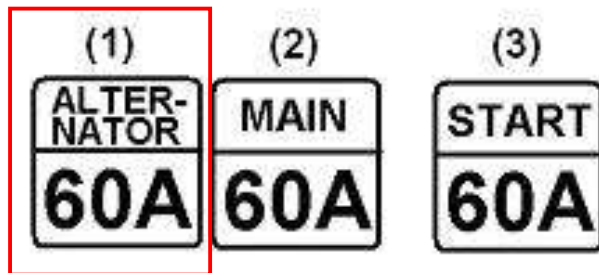
REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129263-77330	ADJUSTER, BELT	1							
2	1	129423-77200	GENERATOR	1							
3	2	X9490561001	NUT	1							
4	2	119620-77380	ROTOR ASSY	1							
5	3	123501-79240	BEARING, BALL	1							
6	3	119620-79250	COVER, BEARING	1							
7	2	119620-79360	THRUST WASHER	1							
8	2	119620-77421	FLAME ASSY, DRIVE	1							
9	3	119620-79200	BALL BEARING	1							
10	3	119620-79210	PLATE	1							
11	3	119620-79220	SCREW	4							
12	3	119620-79230	BOLT, STUD	2							
13	2	119620-77440	FLAME ASSY, REAR	1							
14	2	129240-79300	COVER	1							
15	2	119620-77461	PULLEY	1							
16	2	119620-77471	NUT	1							
17	2	129423-77710	REGULATOR ASSY	1							
18	2	119620-79260	HOLDER	1							
19	2	129052-79270	HOLDER, BRUSH	1							
20	3	119620-77480	BRUSH ASSY	2							
21	3	119620-79280	SPRING	2							
22	2	119620-79290	SCREW	1							
23	2	119620-79300	SCREW	1							
24	2	119620-79310	BOLT	3							
25	2	119620-79320	SCREW W/WASHER	2							
26	2	119620-79330	BOLT	2							
27	2	119620-79340	INSULATION BUSH	1							
28	2	119620-79350	NUT	2							
29	2	119620-77490	COLLAR	1							
30	1	26306-100002	NUT	1							
31	1	129795-01900	STUD	1							
32	1	119810-77340	BOLT	1							

Remarks
 (REMARKS)"EFFECTIVE MACHINE NO." OF
 ENGINE IS INDICATED ON THE
 ENGINE LABEL WHICH IS SHOWN
 IN FIG.4.

1. Replace the slow blow fuse

Remove negative cable from battery.

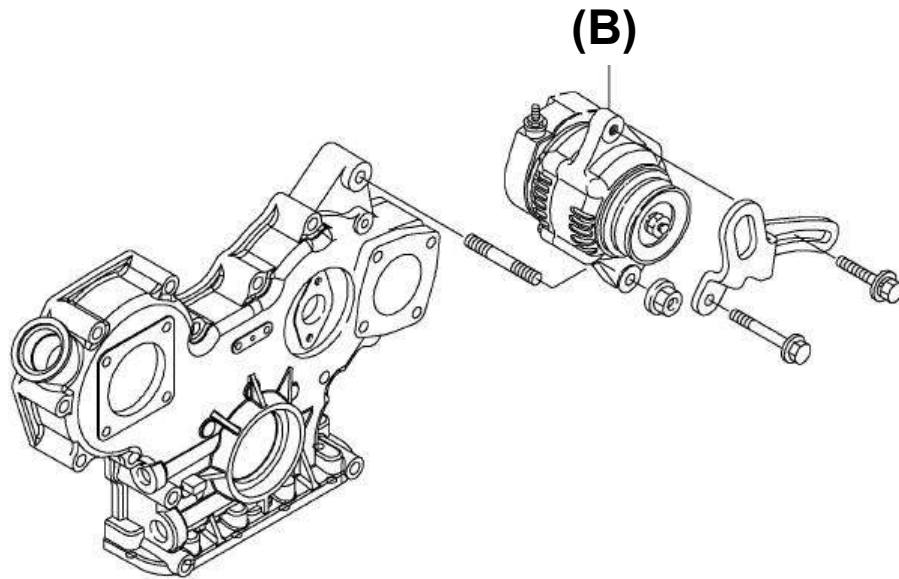
Replace the ALTERNATOR SLOW BLOW FUSE (1) to 80A fuse which is supplied with alternator.



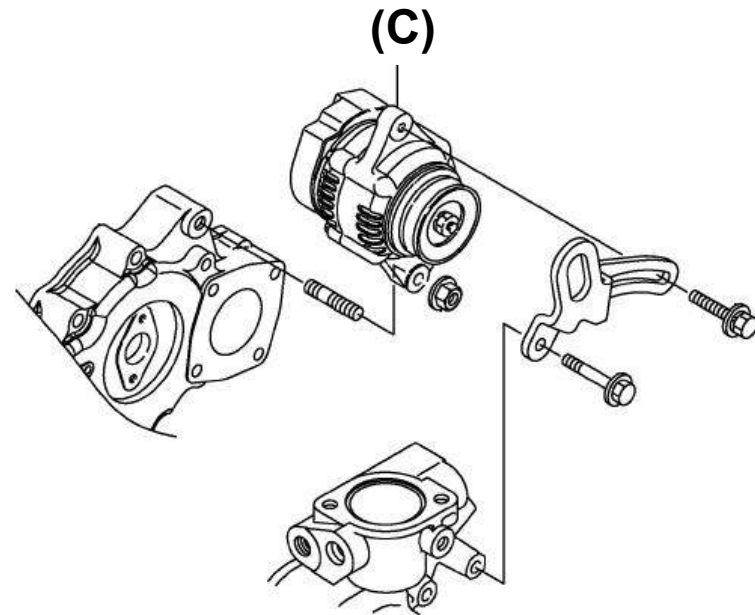
(A) – SLOW BLOW FUSE

2. Replace the alternator.

Replace to the large capacity alternator (C), 119626-77210.
Attach negative cable to battery.



NORMAL
(B) 129423-77200 / GENERATOR, 12V-40A



LARGE CAPACITY
(C) 119626-77210 / ALTERNATOR 12V-55A

Fig.16. SHORT BLOCK

0CNP4-G32000 16. SHORT BLOCK

(A)=3TNV84-NRE
(B)=
(C)=

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

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729233-01000	SHORT BLOCK ASSY	1							
2	2	129233-01560	BLOCK ASSY, CYLINDER	1							
3	2	729402-01650	CASE ASSY, OIL SEAL	1							
4	2	129150-14200	TAPPET	6							
5	2	129129-14580	CAMSHAFT ASSY	1							
6	2	129004-21002	CRANKSHAFT ASSY	1							
7	2	129004-22080	PISTON ASSY	3							
8	2	129202-22300	PIN, PISTON	3							
9	2	729402-23100	ROD ASSY, CONNECTING	3							
10	2	119802-25101	GEAR ASSY, IDLE	1							
11	2	22252-000260	RING, 26	6							
12	2	26106-080142	BOLT, 8 X14	2							

NOT ILLUSTRATED

Remarks
* NOT ILLUSTRATED.

Part Number Index

All parts are stipulated in the order of part numbers.

(Depending on the area in which the part is used.)

This index will display the location of the part according to each part number.

PARTS No. INDEX

PARTS No.	Fig.	Ref.No.
114250-39450	10	15
114250-53080	13	5
114250-53120	13	10
114250-53130	13	11
114250-53140	13	12
114250-53210	13	13
114250-53400	13	14
119131-18320	6	3
119305-59120	13	26
119593-59580	13	54
119609-32040	2	17
119620-77380	15	4
119620-77421	15	8
119620-77440	15	13
119620-77461	15	15
119620-77471	15	16
119620-77480	15	20
119620-77490	15	29
119620-79200	15	9
119620-79210	15	10
119620-79220	15	11
119620-79230	15	12
119620-79250	15	6
119620-79260	15	18
119620-79280	15	21
119620-79290	15	22
119620-79300	15	23
119620-79310	15	24
119620-79320	15	25
119620-79330	15	26
119620-79340	15	27
119620-79350	15	28
119620-79360	15	7
119625-11880	4	33
119802-01560	2	13
119802-03110	4	43
119802-03121	4	44
119802-03130	4	45
119802-03141	4	46
119802-11260	4	6
119802-11270	4	7
119802-11280	4	8
119802-11870	4	32
119802-21202	8	5
119802-25051	7	9
119802-25070	7	13
119802-25100	7	10
119802-25101	16	10
119802-25901	7	16
119802-32070	2	8

PARTS No.	Fig.	Ref.No.
119802-32100	2	7
119802-32111	2	18
119802-32120	2	19
119802-32130	2	20
119802-35100	10	9
119802-35110	10	10
119802-39450	10	17
119802-51250	12	1
119802-53100	13	6
119802-59550	13	48
119802-59560	13	50
119810-77340	15	32
119852-01600	3	2
119852-49300	11	15
119852-49530	11	29
120130-11860	4	19
120270-54410	4	35
121023-01550	2	28
121111-21501	8	12
121400-11340	4	28
121520-34810	10	1
121550-23200	8	30
121550-49111	11	30
121850-21680	8	11
121850-42410	11	12
121850-51960	2	21
123501-79240	15	5
123900-13630	6	4
124060-01050	1	5
124060-77680	13	55
124160-01751	2	14
124160-01910	1	7
		8
124160-11360	4	52
124160-39140	10	16
124195-77770	14	23
124240-01871	2	15
124240-01883	9	1
124250-49351	11	32
124460-11340	4	29
124465-44950	11	38
124550-21600	8	16
124722-59050	13	49
		52
129001-01250	1	6
129001-02930	1	25
129001-12110	5	5
129001-32330	2	11
129001-91841	2	22
129002-01331	1	33

PARTS No.	Fig.	Ref.No.
129004-01190	1	31
129004-01520	2	12
129004-03010	4	41
129004-11101	4	24
129004-11241	4	3
129004-11251	4	4
129004-11310	4	49
129004-11650	4	10
129004-11700	4	15
129004-11900	4	34
129004-13200	6	7
129004-21002	8	1
	16	6
129004-22080	8	17
	16	7
129004-22500	8	19
129004-22900	8	35
129004-22950	8	37
129004-59810	13	35
129004-59820	13	39
129004-59830	13	43
129005-03080	5	1
129005-12100	5	3
129005-59830	10	18
129052-77010	14	1
129052-77030	14	18
129052-79270	15	19
129054-01640	3	8
129054-42320	11	11
129054-42450	11	31
129055-01770	3	7
129055-11350	4	40
129055-13521	6	8
129055-21592	8	13
129055-21650	8	9
129055-34811	10	2
129055-42010	11	1
129055-49300	11	16
129055-49320	11	39
129100-01580	3	1
		14
	8	2
129100-01640	3	15
129100-01730	3	5
129100-11111	4	25
129100-23910	8	29
129100-35140	10	11
129107-44901	11	37
129120-77501	5	8
129129-14580	7	3

PARTS No.	Fig.	Ref.No.
129129-14580	16	5
129150-01200	1	32
129150-01580	2	31
129150-01881	7	17
129150-02020	1	10
129150-02450	7	4
129150-02870	1	34
129150-02930	1	28
129150-02940	1	37
129150-03070	4	42
129150-11230	4	11
129150-11280	4	9
129150-11370	4	14
129150-11750	4	13
129150-11810	4	21
129150-13110	6	2
129150-14101	7	7
129150-14200	7	1
	16	4
129150-14400	7	2
129150-23600	8	31
129150-23610	8	33
129150-25301	7	15
129150-26000	7	18
129150-26050	7	19
129150-35042	10	3
129150-35091	10	4
129150-35111	10	12
129150-35153	10	13
129150-42300	11	8
129150-42311	11	9
129150-49360	11	33
129150-49811	11	27
129150-59120	13	30
129150-59131	13	29
		33
129150-77511	5	9
129155-77060	14	25
129202-22300	8	23
	16	8
129233-01560	16	2
129234-53001	13	2
129240-79300	15	14
129263-13220	6	5
129263-77330	15	1
129410-03990	5	2
129418-32320	2	10
129423-77200	15	2
129423-77710	15	17
129457-42050	11	3

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PARTS No.	Fig.	Ref.No.
129457-42120	11	4
129457-49801	11	26
129486-01670	3	18
129486-42050	11	17
129486-59551	13	51
129550-42350	11	21
129556-44740	11	23
129698-77020	14	21
129698-77101	14	2
129698-77110	14	3
129698-77120	14	4
129698-77130	14	5
129698-77140	14	6
129698-77150	14	7
129698-77161	14	8
129698-77170	14	9
129698-77180	14	10
129698-77190	14	11
129698-77200	14	12
129698-77210	14	13
129698-77220	14	14
129698-77230	14	15
129698-77240	14	16
129698-77250	14	17
129698-77270	14	20
129698-77280	14	22
129795-01780	3	17
129795-01800	2	6
129795-01900	15	31
129795-01950	2	16
129795-02411	1	13
129795-11120	4	26
129795-11180	4	27
129795-21661	8	10
129795-49551	11	28
129900-07900	4	1
129900-32130	2	9
158552-51151	7	23
171051-01921	1	9
171350-13100	6	1
171353-44760	11	24
194521-41570	9	7
		23
198172-41110	9	2
198280-41150	9	18
729004-01500	2	1
729004-01560	1	1
729055-51350	12	10
729233-01000	16	1
729244-53100	13	1

PARTS No.	Fig.	Ref.No.
729402-01650	16	3
729402-23100	8	25
	16	9
X2114274200	14	24
X2114535200	14	19
X9490561001	15	3

PARTS No.	Fig.	Ref.No.
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PARTS No.	Fig.	Ref.No.
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YANMAR CO.,LTD.



PARTS CATALOG

Published 2009/10 (Oct.)

0CNP4-G32100

Directions for the Parts Catalog.

1. The parts stipulated in this Parts Catalog are not necessarily standard equipped parts.
2. Parts may change without prior notice.
3. The following is an example of the Parts Catalog format.

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(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 Mark

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

Symbol	Interchangeability	Contents note
N	Old $\begin{matrix} \leftarrow \text{Yes} \\ \text{No} \rightarrow \end{matrix}$ New	New Part is interchangeable for Old Part but Old Part is not interchangeable for New Part.
Q	Old $\begin{matrix} \leftarrow \text{No} \\ \text{Yes} \rightarrow \end{matrix}$ New	New Part is not interchangeable for Old Part but Old Part is interchangeable for New Part.
R	Old $\begin{matrix} \leftarrow \text{Yes} \\ \text{Yes} \rightarrow \end{matrix}$ New	New/ Old Parts are both interchangeable.
S	Old $\begin{matrix} \leftarrow \text{No} \\ \text{No} \rightarrow \end{matrix}$ New	New/ Old Parts are both not interchangeable.
W		Part discontinued.
Z		Part newly added.
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)	Date

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

Note 2) " XXX " 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 Mark

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.

CONTENTS

MODEL : 3TNV88-N,MRE(N4322

PC NO : 0CNP4-G32100

Fig.No. GROUP NAME

ENGINE SECTION

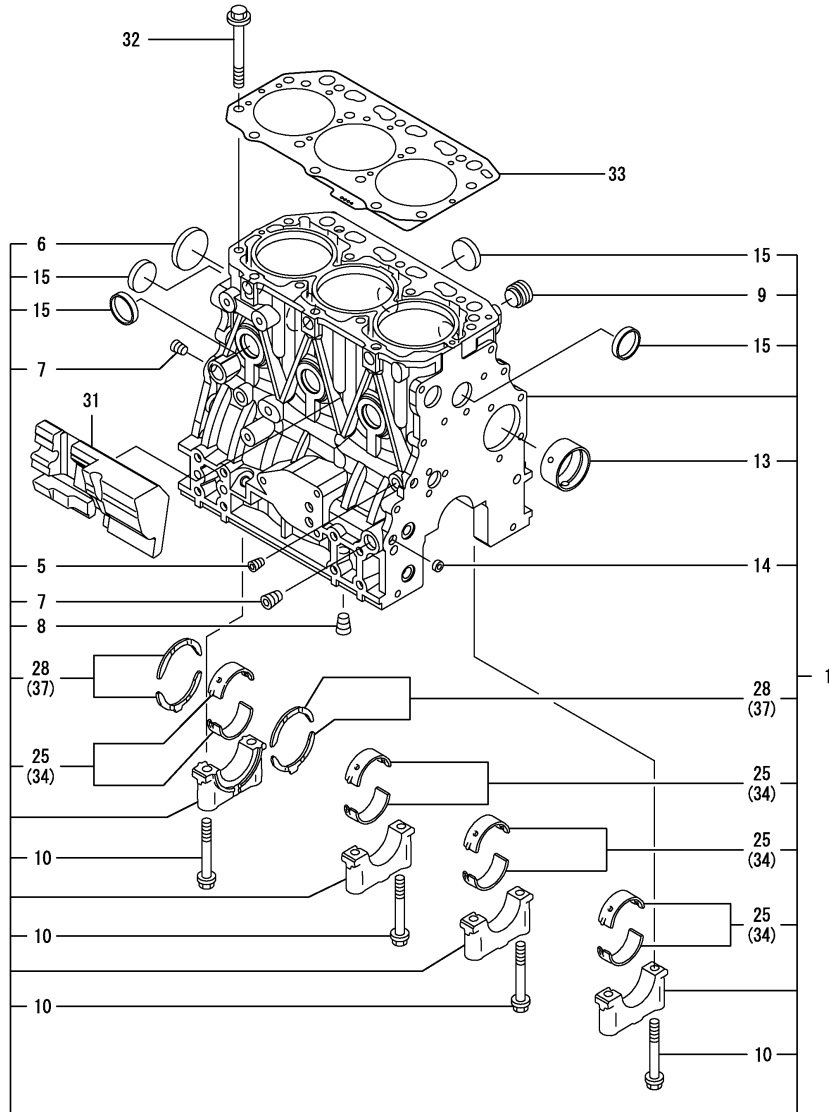
1. CYLINDER BLOCK
2. GEAR HOUSING
3. MOUNTING FLANGE & OIL SUMP
4. CYLINDER HEAD & BONNET
5. SUCTION MANIFOLD
6. EXHAUST MANIFOLD & SILENCER
7. CAMSHAFT & DRIVING GEAR
8. CRANKSHAFT & PISTON
9. HYDRAULIC PUMP
10. LUB.OIL SYSTEM
11. COOLING WATER SYSTEM
12. FUEL INJECTION PUMP
13. FUEL INJECTION VALVE
14. STARTING MOTOR
15. GENERATOR
16. SHORT BLOCK

Fig.No. GROUP NAME

Fig.1. CYLINDER BLOCK

(A)=3TNV88-NRE
(B)=3TNV88-MRE
(C)=

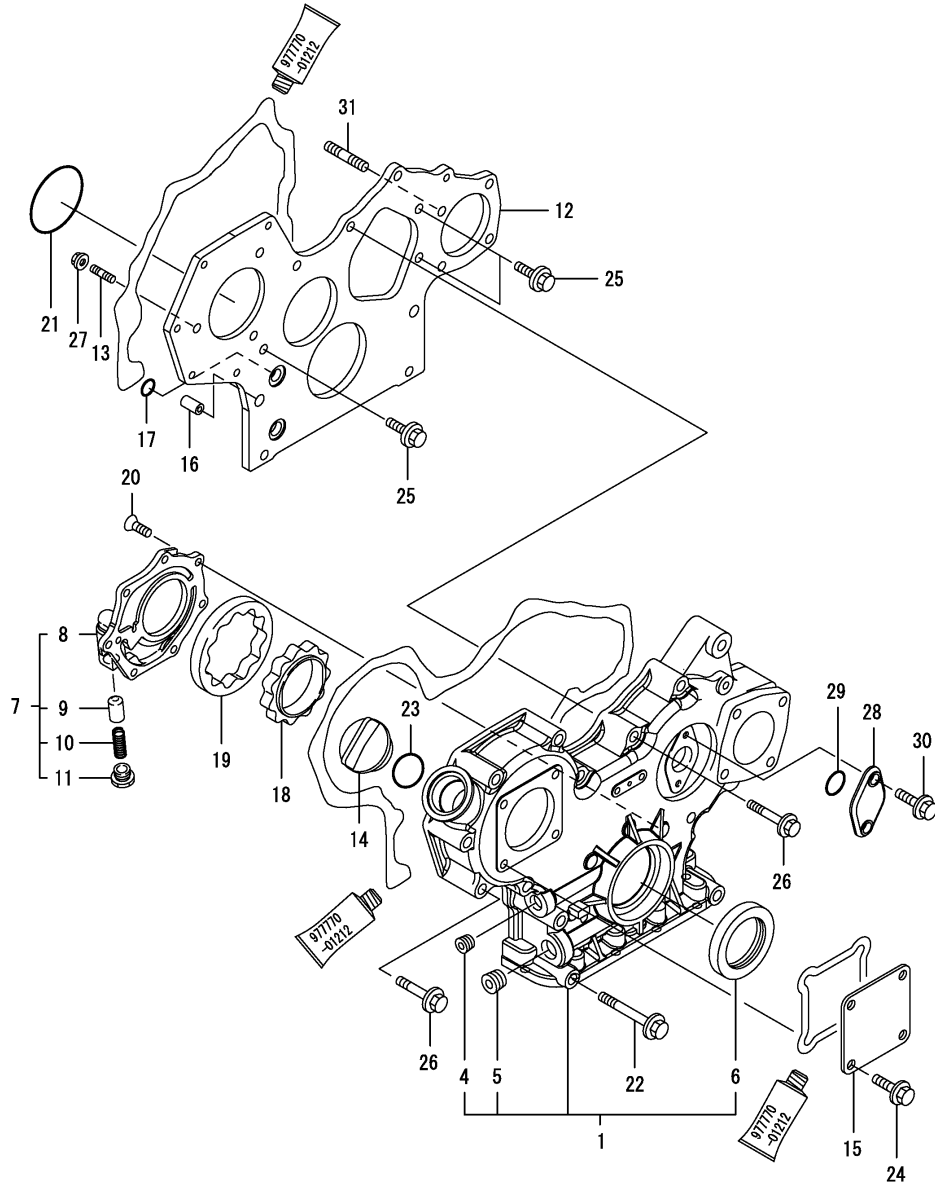
(D)=
(E)=
(F)=



REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729005-01560	BLOCK ASSY, CYLINDER	1	1						
5	2	124060-01050	PLUG PT1/8	1	1						
6	2	129001-01250	PLUG 50	1	1						
7	2	124160-01910	PLUG PT1/4	2	2						
8	2	124160-01910	PLUG PT1/4	1	1						
9	2	171051-01921	PLUG	1	1						
10	2	129150-02020	BOLT, METAL CAP	8	8						
13	2	129795-02411	BUSH, CAMSHAFT	1	1						
14	2	27241-120000	PLUG 12	2	2						
15	2	27241-300000	PLUG 30	6	6						
25	2	129001-02930	MAIN BEARING SET	4	4						3
28	2	129150-02930	METAL, THRUST	2	2						
31	1	129004-01190	SPACER	1	1						
32	1	129150-01200	STUD, CYL. HEAD	14	14						
33	1	129001-01340	GASKET, (NON-ASB.)	1	1						
34	1	129150-02870	MAIN METAL US=0.25	4	4						1
37	1	129150-02940	METAL,THRUST.25(4PIE	1	1						2

Remarks
 (1) UNDER-SIZE(U.S=0.25)PART.
 (2) OVER-SIZE(O.S=0.25)PART.
 (3) REPAIR PART.
 (REMARKS)"EFFECTIVE MACHINE NO." OF
 ENGINE IS INDICATED ON THE
 ENGINE LABEL WHICH IS SHOWN
 IN FIG.4.

Fig.2. GEAR HOUSING



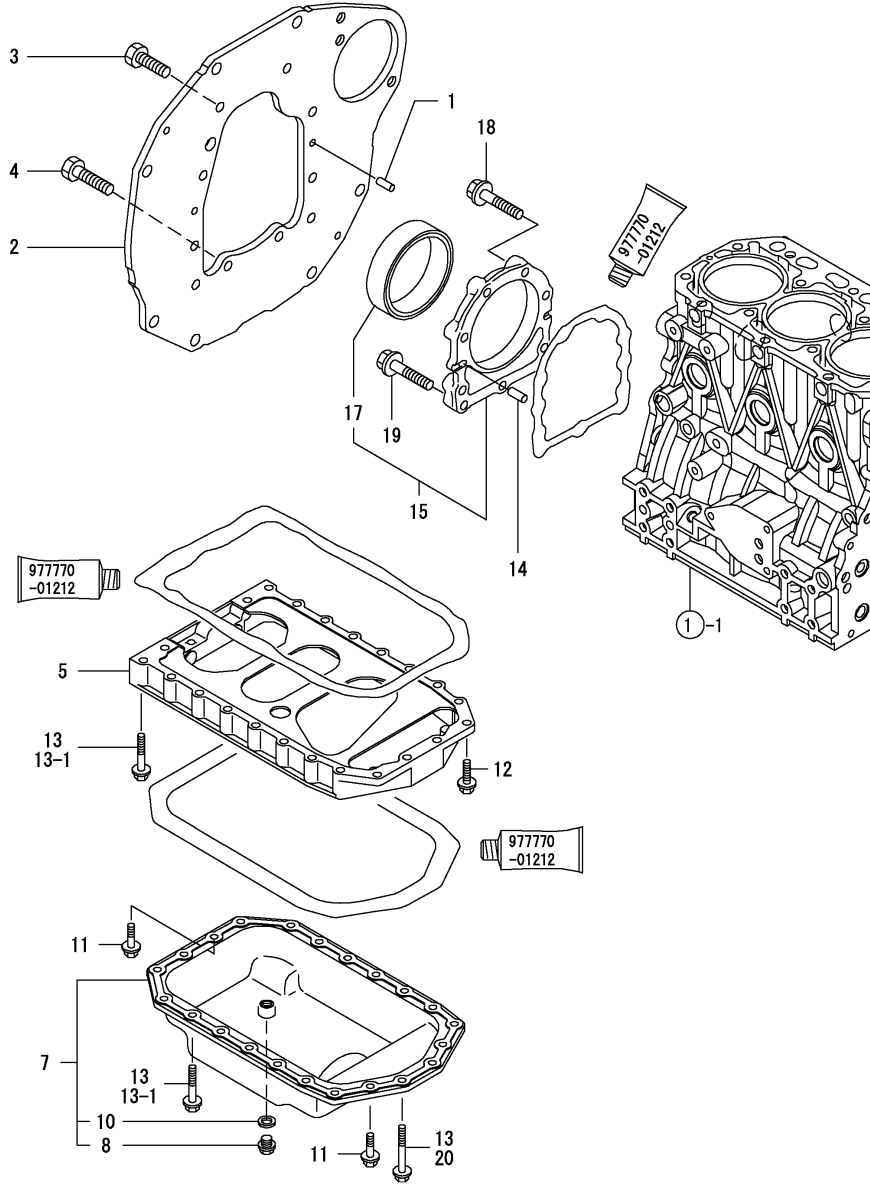
(A)=3TNV88-NRE
(B)=3TNV88-MRE
(C)=

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

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729004-01500	HOUSING ASSY, GEAR	1	1						
4	2	23876-030000	PLUG PT3/8,SCREW	1	1						
5	2	23876-040000	PLUG PT 1/2	1	1						
6	2	129795-01800	SEAL, OIL	1	1						
7	1	119802-32100	COVER ASSY, PUMP	1	1						
8	2	119802-32070	COVER, LUB.OIL PUMP	1	1						
9	2	129900-32130	VALVE, RELIEF	1	1						
10	2	129418-32320	SPRING	1	1						
11	2	129001-32330	PLUG	1	1						
12	1	129004-01520	FRANGE, GEAR CASE	1	1						
13	1	119802-01560	STUD, M8X25	3	3						
14	1	124160-01751	COVER,FILLER	1	1						
15	1	124240-01871	COVER, HO-P	1	1						
16	1	129795-01950	PIPE, KNOCK L=18	2	2						
17	1	119609-32040	O-RING P16	4	4						
18	1	119802-32111	ROTOR, INNER	1	1						
19	1	119802-32120	ROTOR, OUTER	1	1						
20	1	119802-32130	SCREW, M6X16	7	7						
21	1	121850-51960	O-RING, F.I.PUMP	1	1						
22	1	129001-91841	BOLT M 8X 85 PLATED	3	3						
23	1	24311-000320	O-RING 1A P-32.0	1	1						
24	1	26106-080162	BOLT M 8X 16 PLATED	4	4						
25	1	26106-080162	BOLT M 8X 16 PLATED	3	3						
26	1	26106-080552	BOLT M 8X 55 PLATED	11	11						
27	1	26306-080002	NUT	3	3						
28	1	121023-01550	COVER, BLIND	1	1						
29	1	24341-000240	O-RING 1A S-24.0	1	1						
30	1	26106-060162	BOLT M 6X 16 PLATED	2	2						
31	1	129150-01580	STUD 8 X 30	1	1						

Remarks
(REMARKS)"EFFECTIVE MACHINE NO." OF
ENGINE IS INDICATED ON THE
ENGINE LABEL WHICH IS SHOWN
IN FIG.4.

Fig.3. MOUNTING FLANGE & OIL SUMP



OCNP4-G32100 3. MOUNTING FLANGE & OIL SUMP

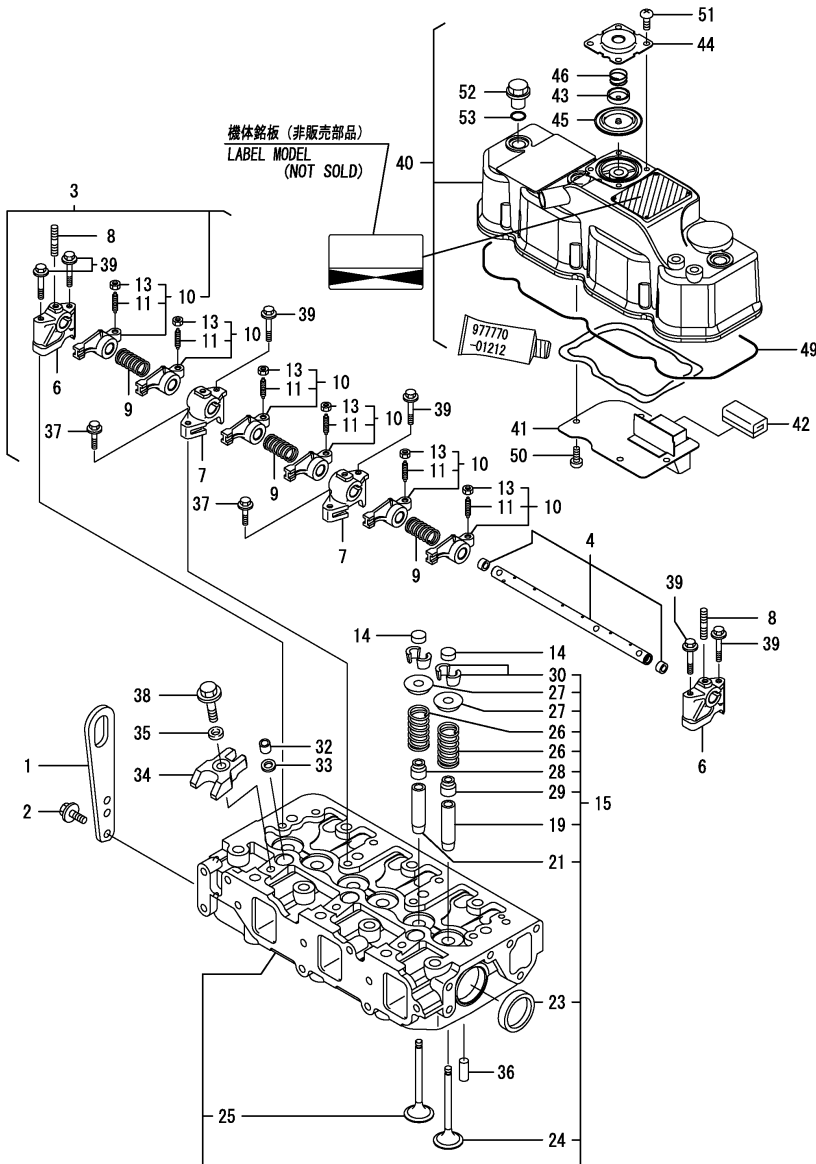
(A)=3TNV88-NRE
(B)=3TNV88-MRE
(C)=

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

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129100-01580	PARALLEL PIN 8X16	2	2						
2	1	119852-01600	FLANGE, MOUNTING	1	1						
3	1	26206-100202	BOLT M10X20	6	6						
4	1	26206-100252	BOLT M10X25	4	4						
5	1	129100-01730	SPACER, OIL SUMP	1	1						
7	1	129055-01770	SUMP, LUB.OIL	1	1						
8	2	129054-01640	DRAIN PLUG	1	1						
10	2	22190-120002	SEAL WASHER 12	1	1						
11	1	26106-080162	BOLT M 8X 16 PLATED	4	4						
12	1	26106-080252	BOLT M 8X 25 PLATED	2	2						
13	1	26106-080452	BOLT M 8X 45 PLATED	20	20						
13-1	1	26106-080452	BOLT M 8X 45 PLATED	16	16						K
(A=FROM 1ST) (B=FROM 1ST)											
14	1	129100-01580	PARALLEL PIN 8X16	2	2						
15	1	129100-01640	CASE ASSY, OIL SEAL	1	1						
17	2	129795-01780	SEAL, OIL	1	1						
18	1	129486-01670	BOLT M8X30,COLLAR HD	6	6						
19	1	26106-080352	BOLT M 8X 35 PLATED	3	3						
20	1	26106-080502	BOLT M 8X 50 PLATED	4	4						W
(A=FROM 1ST) (B=FROM 1ST)											

Remarks
(REMARKS)"EFFECTIVE MACHINE NO." OF
ENGINE IS INDICATED ON THE
ENGINE LABEL WHICH IS SHOWN
IN FIG.4.

Fig.4. CYLINDER HEAD & BONNET



Remarks
 (1) REPAIR PART.
 (REMARKS)"EFFECTIVE MACHINE NO." OF
 ENGINE IS INDICATED ON THE
 ENGINE LABEL WHICH IS SHOWN
 IN FIG.4.

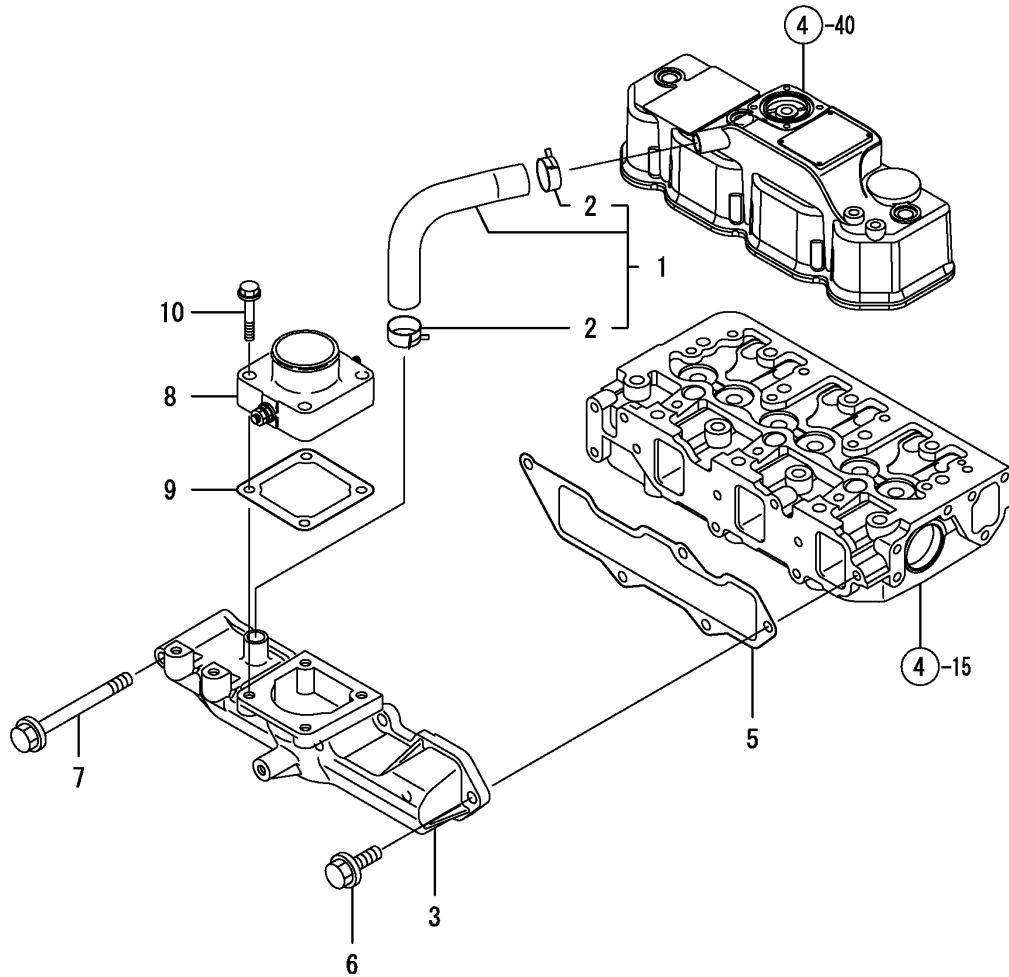
OCNP4-G32100 4. CYLINDER HEAD & BONNET

(A)=3TNV88-NRE
 (B)=3TNV88-MRE
 (C)=

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

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129900-07900	LIFTER, ENGINE	1	1						
2	1	26106-080142	BOLT 8X 14 PLATED	2	2						
3	1	129004-11241	SHAFT ASSY, ROCKER	1	1						
4	2	129004-11251	SHAFT, ROCKER ARM	1	1						
6	2	119802-11260	SUPPORT, ROCKER ARM	2	2						
7	2	119802-11270	SUPPORT, ROCKER ARM	2	2						
8	2	119802-11280	STUD	3	3						
9	2	129150-11280	SPRING	3	3						
10	2	129004-11650	ARM ASSY, ROCKER	6	6						
11	3	129150-11230	SCREW, VALVE	6	6						
13	3	129150-11750	NUT M8XP1.0	6	6						
14	1	129150-11370	CAP, VALVE	6	6						
15	1	129004-11700	HEAD ASSY, CYLINDER	1	1						
19	2	120130-11860	GUIDE, VALVE	3	3						1
21	2	129150-11810	GUIDE, VALVE	3	3						1
23	2	27241-400000	PLUG 40	2	2						
24	2	129004-11101	VALVE, INTAKE	3	3						
25	2	129100-11111	VALVE, EXHAUST	3	3						
26	2	129795-11120	SPRING, VALVE	6	6						
27	2	129795-11180	RETAINER, SPRING	6	6						
28	2	121400-11340	SEAL, VALVE STEM	3	3						
29	2	124460-11340	SEAL, VALVE STEM	3	3						
30	2	27310-080001	COTTER 8	6	6						
32	1	119802-11870	PROTECTOR, NOZZLE	3	3						
33	1	119625-11880	SEAT, NOZZLE	3	3						
34	1	129004-11900	RETAINER, NOZZLE	3	3						
35	1	120270-54410	WASHER	3	3						
36	1	22351-060012	SPRING PIN 6X12	2	2						
37	1	26106-080252	BOLT M 8X 25 PLATED	2	2						
38	1	26106-080352	BOLT M 8X 35 PLATED	3	3						
39	1	26106-080502	BOLT M 8X 50 PLATED	6	6						
40	1	129055-11350	BONNET ASSY, HEAD	1	1						
41	2	129004-03010	PLATE, BAFFLE	1	1						
42	2	129150-03070	BAFFLE, BREATHER	1	1						
43	2	119802-03110	PLATE, DIAPHRAGM	1	1						
44	2	119802-03121	COVER, DIAPHRAGM	1	1						
45	2	119802-03130	DIAPHRAGM	1	1						
46	2	119802-03141	SPRING, DIAPHRAGM	1	1						
49	2	129004-11310	GASKET, BONNET	1	1						
50	2	22857-500100	SCREW 5X10,TAPPING	4	4						
51	2	22857-500100	SCREW 5X10,TAPPING	4	4						
52	1	124160-11360	KNOB	3	3						
53	1	24311-000120	O-RING 1A P 12.0	3	3						

Fig.5. SUCTION MANIFOLD



0CNP4-G32100 5. SUCTION MANIFOLD

(A)=3TNV88-NRE
(B)=3TNV88-MRE
(C)=

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

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129005-03080	PIPE, BREATHER	1	1						
2	2	129410-03990	CLAMP 22	2	2						
3	1	129005-12100	MANIFOLD, INTAKE	1	1						
5	1	129001-12110	GASKET,INT. MANIFOLD	1	1						
6	1	26106-080202	BOLT M 8X 20 PLATED	4	4						
7	1	26106-080802	BOLT M 8X 80 PLATED	1	1						
8	1	129120-77501	HEATER, AIR	1	1						
9	1	129150-77511	GASKET, (NON-ASB.)	1	1						
10	1	26106-080352	BOLT M 8X 35 PLATED	4	4						

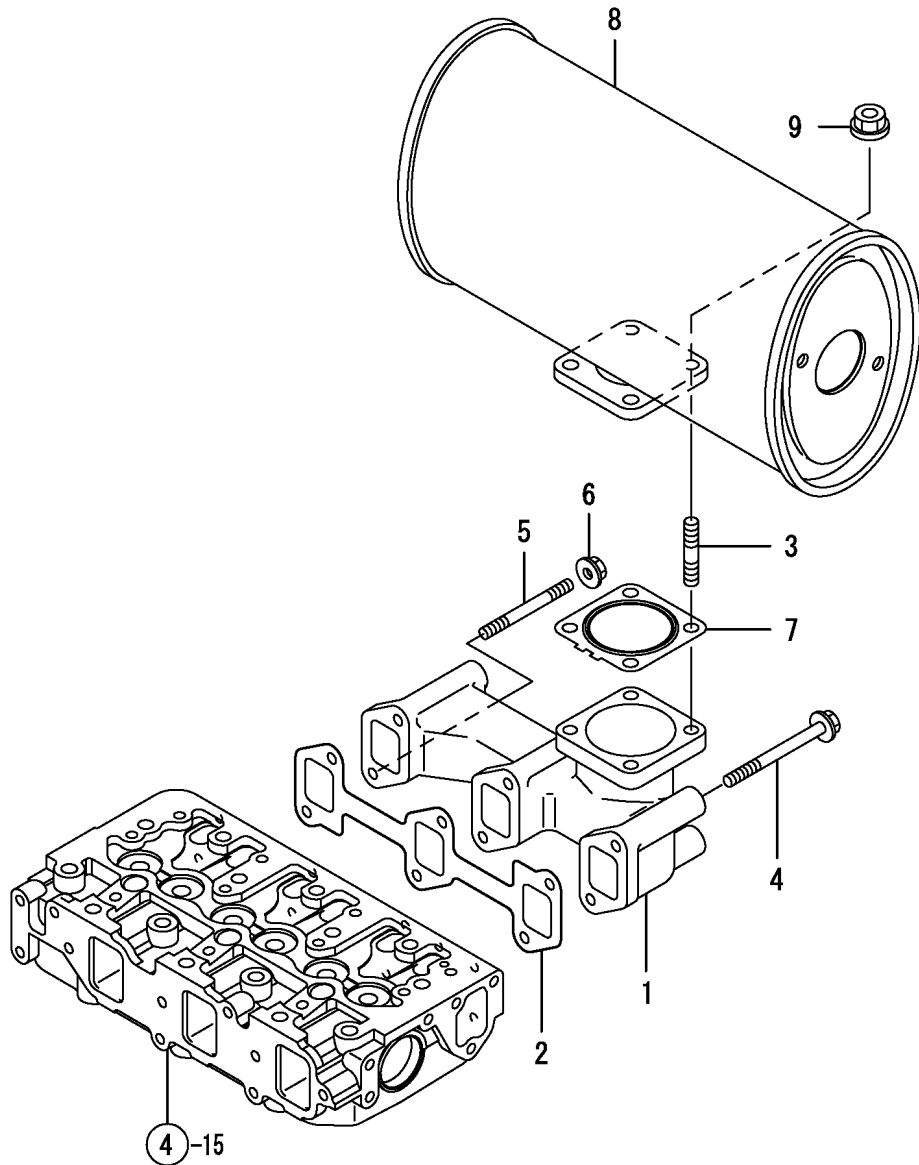
Remarks
(REMARKS)"EFFECTIVE MACHINE NO." OF
ENGINE IS INDICATED ON THE
ENGINE LABEL WHICH IS SHOWN
IN FIG.4.

Fig.6. EXHAUST MANIFOLD & SILENCER

0CNP4-G32100 6. EXHAUST MANIFOLD & SILENCER

(A)=3TNV88-NRE
(B)=3TNV88-MRE
(C)=

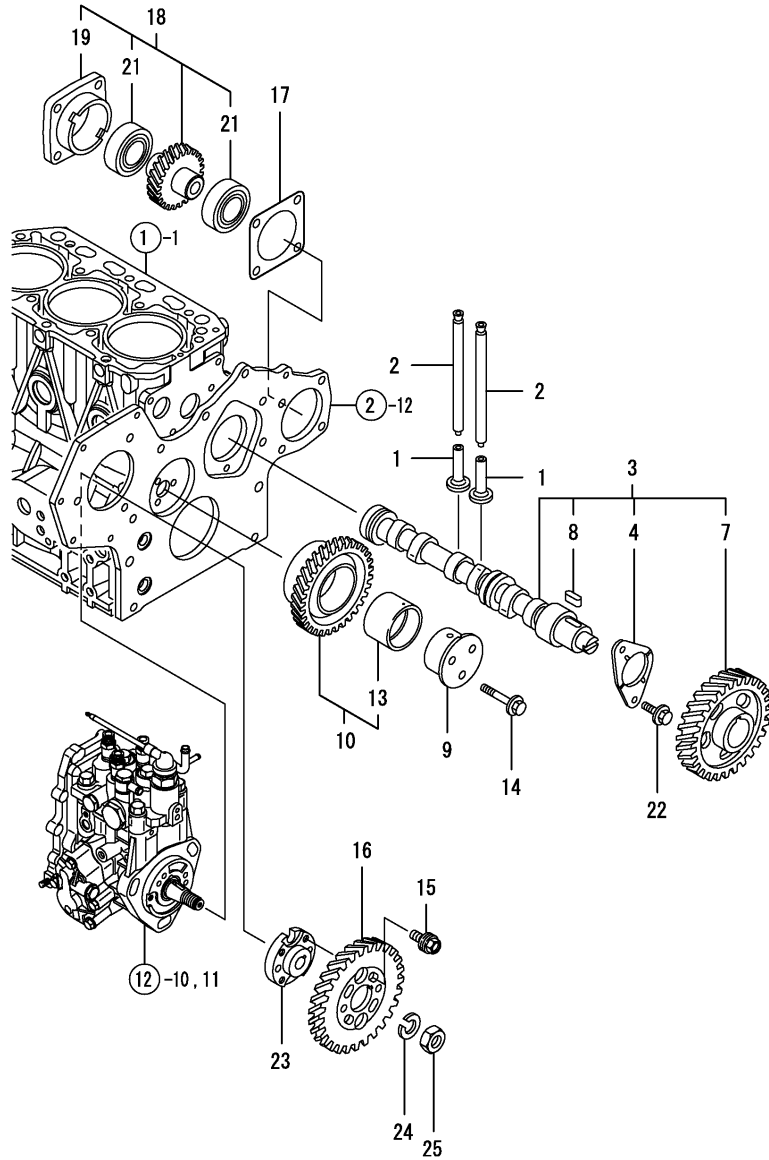
(D)=
(E)=
(F)=



REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	171350-13100	MANIFOLD, EXHAUST	1	1						
2	1	129150-13110	GASKET, EXH.MANIFOLD	1	1						
3	1	119131-18320	BOLT M 8X 22	4	4						
4	1	123900-13630	BOLT 8X80	4	4						
5	1	129263-13220	BOLT M8X95	2	2						
6	1	26306-080002	NUT	2	2						
7	1	129004-13200	GASKET, SILENCER	1	1						
8	1	129055-13521	SILENCER	1	1						
9	1	26306-080002	NUT	4	4						

Remarks
(REMARKS)"EFFECTIVE MACHINE NO." OF
ENGINE IS INDICATED ON THE
ENGINE LABEL WHICH IS SHOWN
IN FIG.4.

Fig.7. CAMSHAFT & DRIVING GEAR



OCNP4-G32100 7. CAMSHAFT & DRIVING GEAR

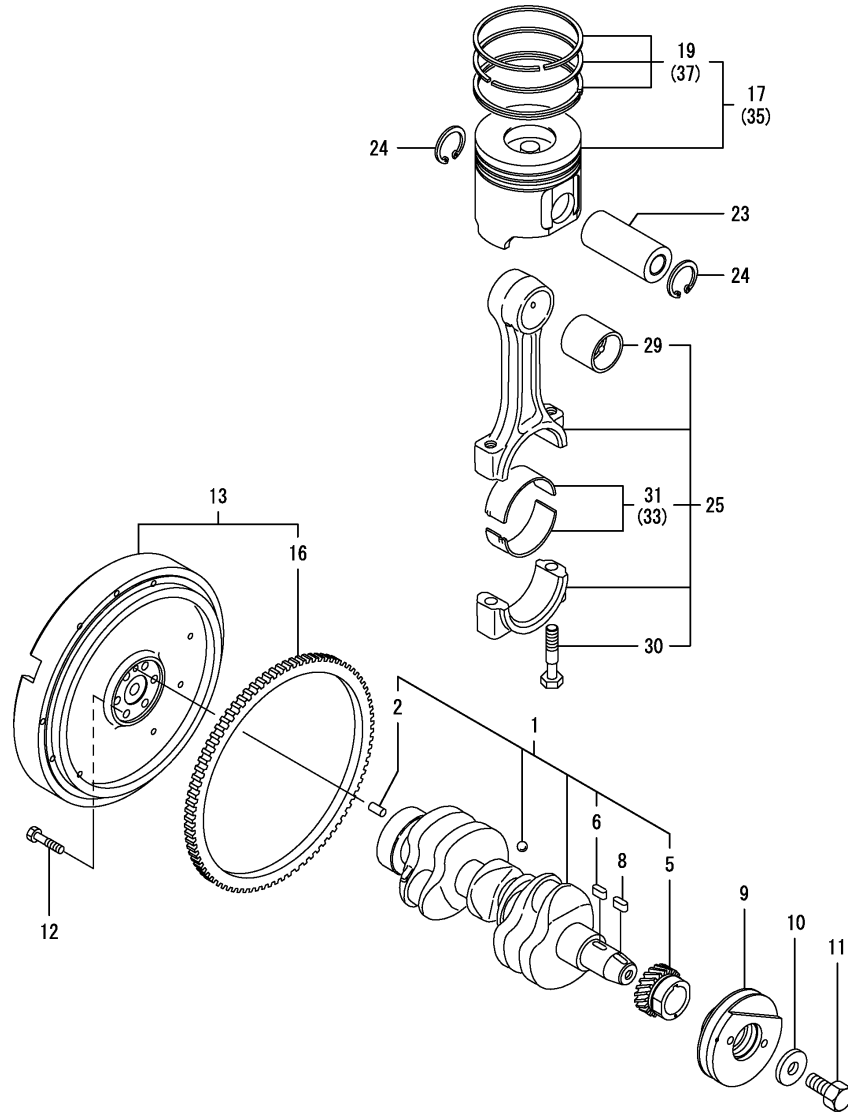
(A)=3TNV88-NRE
(B)=3TNV88-MRE
(C)=

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

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129150-14200	TAPPET	6	6						
2	1	129150-14400	ROD, PUSH	6	6						
3	1	129129-14580	CAMSHAFT ASSY	1	1						
4	2	129150-02450	METAL,THRUST(CAM	1	1						
7	2	129150-14101	GEAR, CAMSHAFT	1	1						
8	2	22512-070140	KEY 7X 14	1	1						
9	1	119802-25051	SHAFT, IDLE GEAR	1	1						
10	1	119802-25100	GEAR ASSY, IDLE	1	1						
13	2	119802-25070	BUSH, IDLE GEAR	1	1						1
14	1	26106-080402	BOLT M 8X 40 PLATED	3	3						
15	1	129150-25301	BOLT,FI-P	4	4						
16	1	119802-25901	GEAR, PUMP	1	1						
17	1	129150-01881	GASKET, (NON ASB.)	1	1						
18	1	129150-26000	DRIVING SET, HO-PUMP	1	1						
19	2	129150-26050	BRACKET, HO-P	1	1						
21	2	24105-060064	BALL BEARING	2	2						
22	1	26106-080142	BOLT 8X 14 PLATED	2	2						
23	1	158552-51151	FLANGE	1	1						
24	1	22217-140000	SPRING WASHER 14	1	1						
25	1	26776-140002	LOCK NUT M14 PLATED	1	1						

Remarks
(1) REPAIR PART.
(REMARKS)"EFFECTIVE MACHINE NO." OF
ENGINE IS INDICATED ON THE
ENGINE LABEL WHICH IS SHOWN
IN FIG.4.

Fig.8. CRANKSHAFT & PISTON



0CNP4-G32100 8. CRANKSHAFT & PISTON

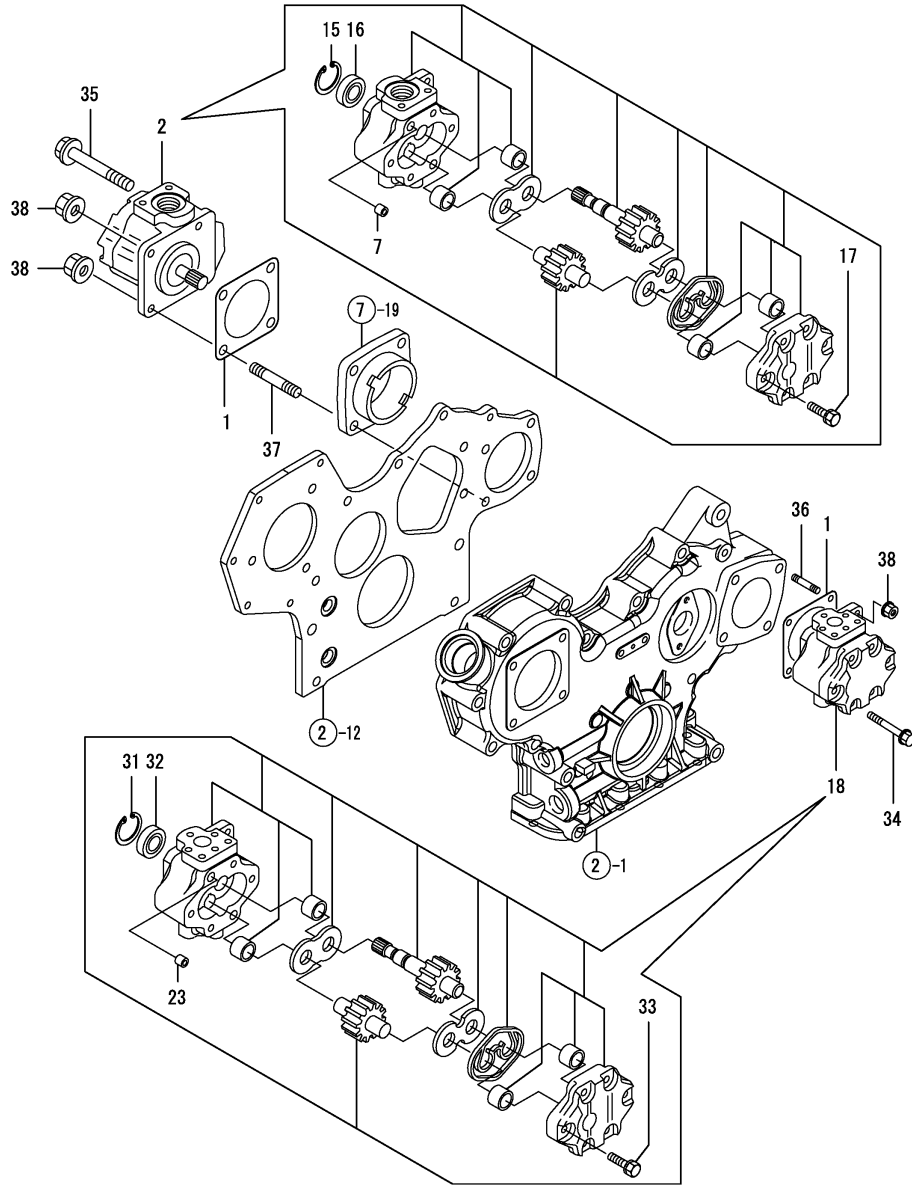
(A)=3TNV88-NRE
(B)=3TNV88-MRE
(C)=

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

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129004-21002	CRANKSHAFT ASSY	1	1						
2	2	129100-01580	PARALLEL PIN 8X16	1	1						
5	2	119802-21202	GEAR, CRANKSHAFT	1	1						
6	2	22512-070140	KEY 7X 14	1	1						
8	1	22512-070140	KEY 7X 14	1	1						
9	1	129055-21650	V-PULLEY, CRANKSHAFT	1	1						
10	1	129795-21661	WASHER	1	1						
11	1	121850-21680	BOLT, V-PULLEY	1	1						
12	1	121111-21501	BOLT, FLYWHEEL	6	6						
13	1	129055-21592	FLYWHEEL ASSY	1	1						
16	2	124550-21600	RING GEAR	1	1						
17	1	129005-22080	PISTON ASSY	3	3						
19	2	129005-22500	RING SET, PISTON	3	3						
23	1	129202-22300	PIN, PISTON(D26,L70)	3	3						
24	1	22252-000260	CIRCLIP 26	6	6						
25	1	729402-23100	ROD ASSY, CONNECTING	3	3						
29	2	129100-23910	BUSH, PISTON PIN	3	3						1
30	2	121550-23200	BOLT, CONNECTING ROD	6	6						
31	2	129150-23600	METAL, CRANKPIN	3	3						
33	1	129150-23610	METAL.PIN US=0.25	3	3						2
35	1	129005-22900	PISTON W/RING OS=.25	3	3						3
37	2	129005-22950	RING SET O.S=0.25	3	3						3

Remarks
 (1) REPAIR PART.
 (2) UNDER-SIZE(U.S=0.25)PART.
 (3) OVER-SIZE(O.S=0.25)PART.
 (REMARKS)"EFFECTIVE MACHINE NO." OF
 ENGINE IS INDICATED ON THE
 ENGINE LABEL WHICH IS SHOWN
 IN FIG.4.

Fig.9. HYDRAULIC PUMP



(A)=3TNV88-NRE
 (B)=3TNV88-MRE
 (C)=

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

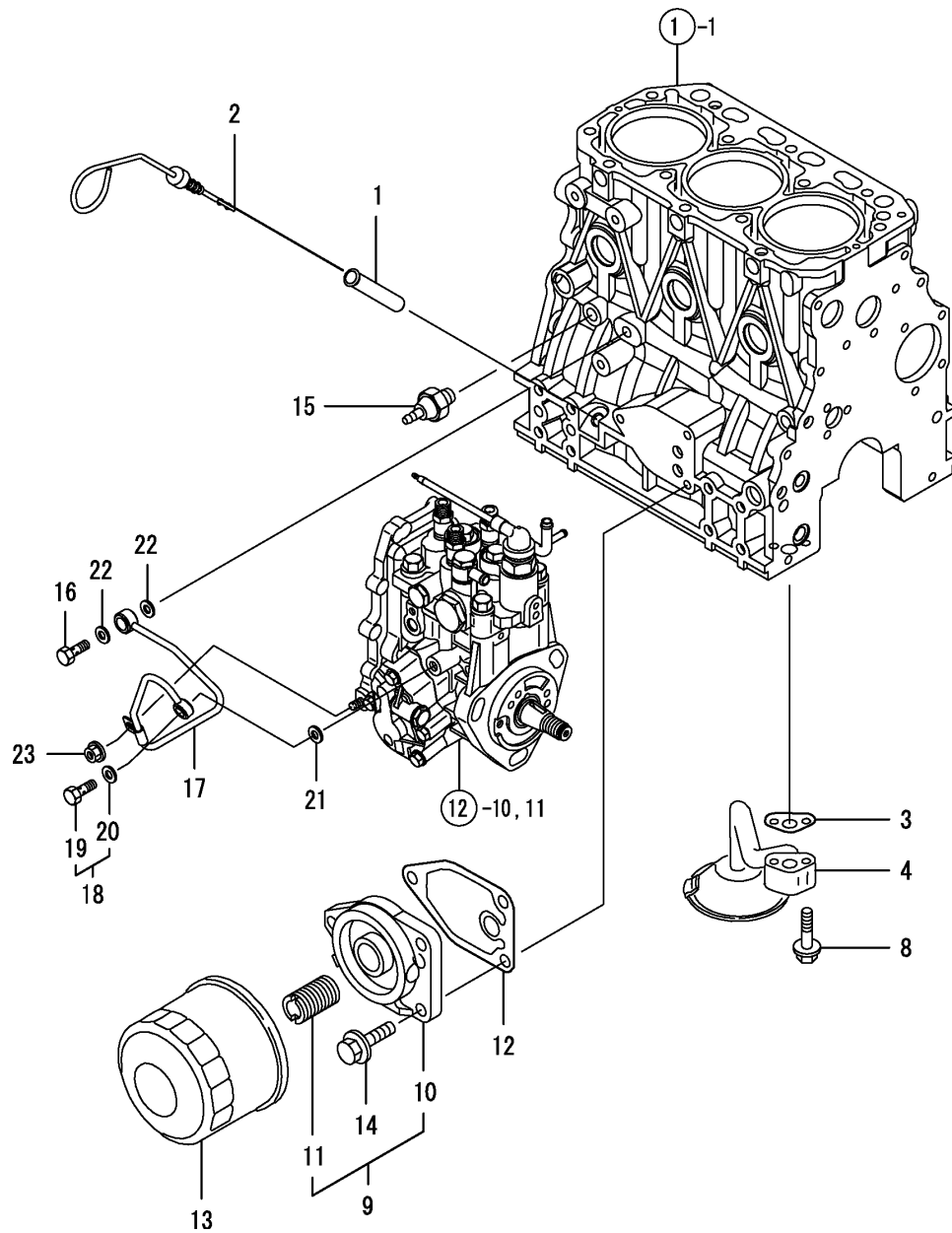
REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	124240-01883	GASKET, (NON-ASB.)	2	2						
2	1	198172-41110	PUMP, HYDRAULIC	1	1						
7	2	194521-41570	PIN 11X7	2	2						
15	2	22252-000320	CIRCLIP 32	1	1						
16	2	24421-153207	SEAL TC15 32 07, OIL	1	1						
17	2	26016-080352	BOLT M 8X 35	4	4						
18	1	198280-41150	PUMP ASSY, HYD. OIL	1	1						
23	2	194521-41570	PIN 11X7	2	2						
31	2	22252-000320	CIRCLIP 32	1	1						
32	2	24421-153207	SEAL TC15 32 07, OIL	1	1						
33	2	26016-080352	BOLT M 8X 35	4	4						
34	1	26106-080802	BOLT M 8X 80 PLATED	2	2						
35	1	26106-080952	BOLT M 8X 95 PLATED	2	2						
36	1	26216-080222	STUD M 8X 22 PLATED	2	2						
37	1	26216-080402	STUD M 8X 40 PLATED	1	1						
38	1	26306-080002	NUT	4	4						

Remarks
 (REMARKS)"EFFECTIVE MACHINE NO." OF
 ENGINE IS INDICATED ON THE
 ENGINE LABEL WHICH IS SHOWN
 IN FIG.4.

Fig.10. LUB.OIL SYSTEM

(A)=3TNV88-NRE
(B)=3TNV88-MRE
(C)=

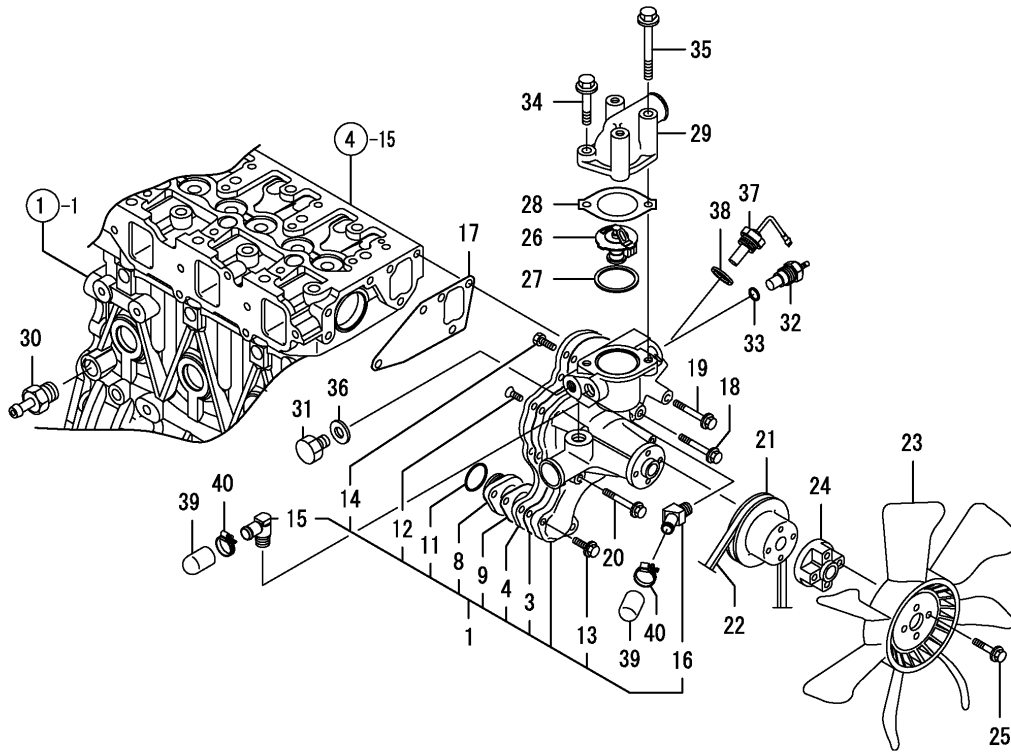
(D)=
(E)=
(F)=



REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	121520-34810	GUIDE, DIPSTICK	1	1						
2	1	129055-34811	DIPSTICK, LUB.OIL	1	1						
3	1	129150-35042	GASKET, (NON-ASB.)	1	1						
4	1	129150-35091	PIPE ASSY, OIL INLET	1	1						
8	1	26106-080352	BOLT M 8X 35 PLATED	2	2						
9	1	119802-35100	BRACKET ASSY, FILTER	1	1						
10	2	119802-35110	BRACKET, FILTER	1	1						
11	2	129100-35140	STUD	1	1						
12	1	129150-35111	GASKET, (NON-ASB.)	1	1						
13	1	129150-35153	FILTER 80X80L	1	1						1
14	1	26106-080202	BOLT M 8X 20 PLATED	3	3						
15	1	114250-39450	SWITCH,(0.5KG)L.O.	1	1						
16	1	124160-39140	BOLT 10, PIPE JOINT	1	1						
17	1	119802-39450	PIPE ASSY, LUB. OIL	1	1						
18	1	129005-59830	BOLT ASSY, JOINT	1	1						
19	2	23857-030000	JOINT BOLT 3	1	1						
20	2	22190-080002	SEAL WASHER 8S	1	1						
21	1	22190-080002	SEAL WASHER 8S	1	1						
22	1	22190-100002	SEAL WASHER 10S	2	2						
23	1	26366-060002	NUT M 6	1	1						

Remarks
(1) REPAIR PART.

Fig.11. COOLING WATER SYSTEM



OCNP4-G32100 11. COOLING WATER SYSTEM

(A)=3TNV88-NRE
(B)=3TNV88-MRE
(C)=

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

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129055-42010	PUMP ASSY, WATER	1	1						
3	2	129457-42050	PACKING	1	1						
I 4	2	129457-42120	PLATE	1	1						
8	2	129150-42300	FLANGE, C. W. PUMP	1	1						
9	2	129150-42311	GASKET, (NON-ASB.)	1	1						
11	2	129054-42320	O-RING	1	1						
I 12	2	121850-42410	SCREW	1	1						
13	2	26106-060202	BOLT M 6X 20 PLATED	2	2						
14	2	26116-060162	BOLT 6X16	5	5						
15	2	119852-49300	ELBOW R3/8	1	1						
16	2	129055-49300	ELBOW, R3/8	1	1						
17	1	129486-42050	GASKET	1	1						
18	1	26106-080552	BOLT M 8X 55 PLATED	2	2						
19	1	26106-080602	BOLT M 8X 60 PLATED	1	1						
20	1	26106-080702	BOLT M 8X 70 PLATED	1	1						
21	1	129550-42350	V-PULLEY(D=120)	1	1						
22	1	25132-003900	V-BELT (A-39)	1	1						
23	1	129556-44740	FAN, COOLING	1	1						
24	1	171353-44760	SPACER	1	1						
25	1	26106-060402	BOLT M 6X 40 PLATED	4	4						
26	1	129457-49801	THERMOSTAT(82	1	1						
27	1	129150-49811	GASKET, (NON-ASB.)	1	1						
28	1	129795-49551	GASKET, (NON-ASB.)	1	1						
29	1	119852-49530	COVER, THERMOSTAT	1	1						
30	1	121550-49111	JOINT PT1/4	1	1						
31	1	129054-42450	PLUG, M12X1.5	1	1						
32	1	124250-49351	THERMOMETER	1	1						
33	1	129150-49360	GASKET 10	1	1						
34	1	26106-080282	BOLT M 8X 28 PLATED	1	1						
35	1	26106-080652	BOLT M 8X 65 PLATED	1	1						
36	1	22190-120002	SEAL WASHER 12	1	1						
37	1	129107-44901	SENSOR,HOT WATER	1	1						
38	1	124465-44950	GASKET 16	1	1						
39	1	129055-49320	CAP, ELBOW	2	2						
40	1	23000-022000	CLAMP 22	2	2						

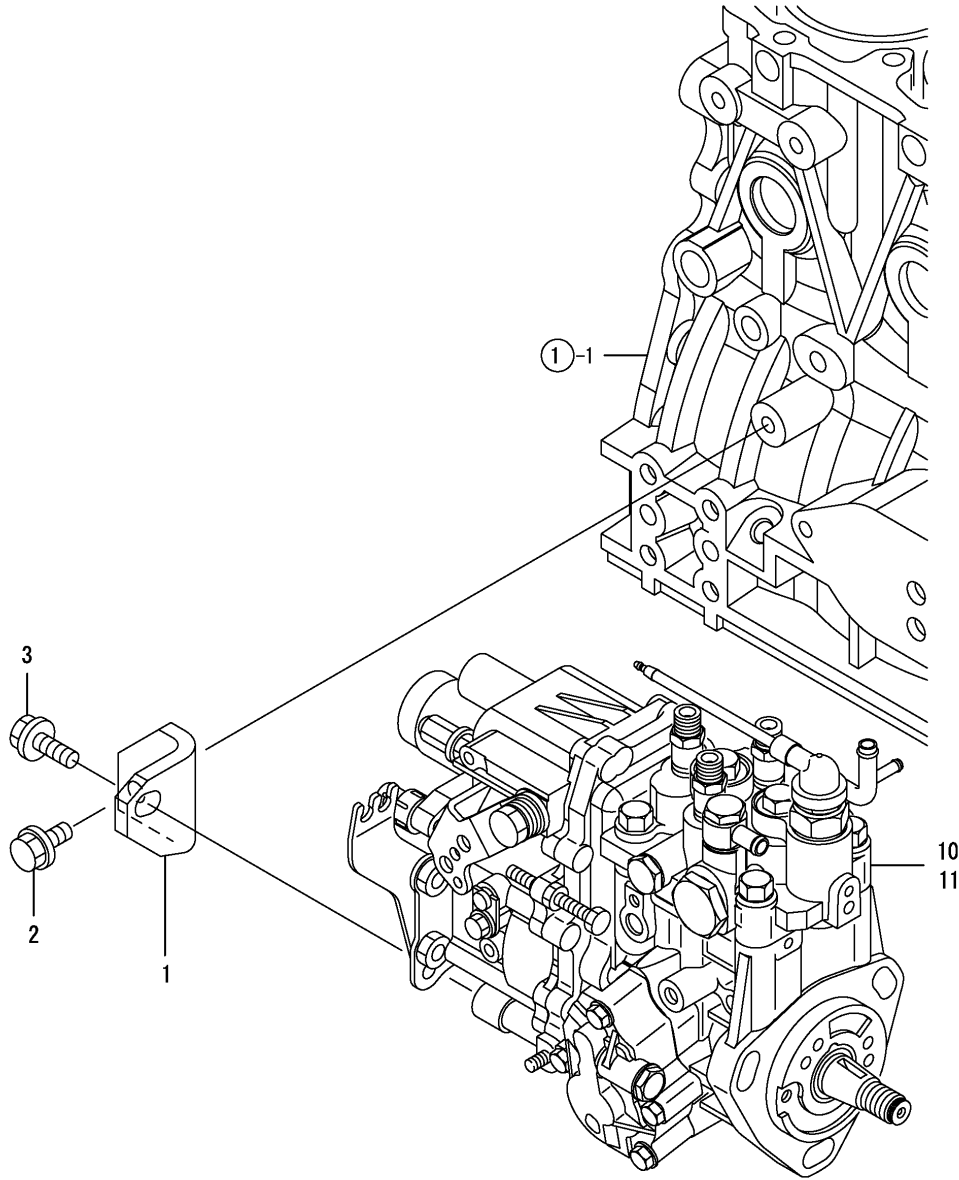
Remarks
(REMARKS)"EFFECTIVE MACHINE NO." OF
ENGINE IS INDICATED ON THE
ENGINE LABEL WHICH IS SHOWN
IN FIG.4.

Fig.12. FUEL INJECTION PUMP

0CNP4-G32100 12. FUEL INJECTION PUMP

(A)=3TNV88-NRE
 (B)=3TNV88-MRE
 (C)=

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



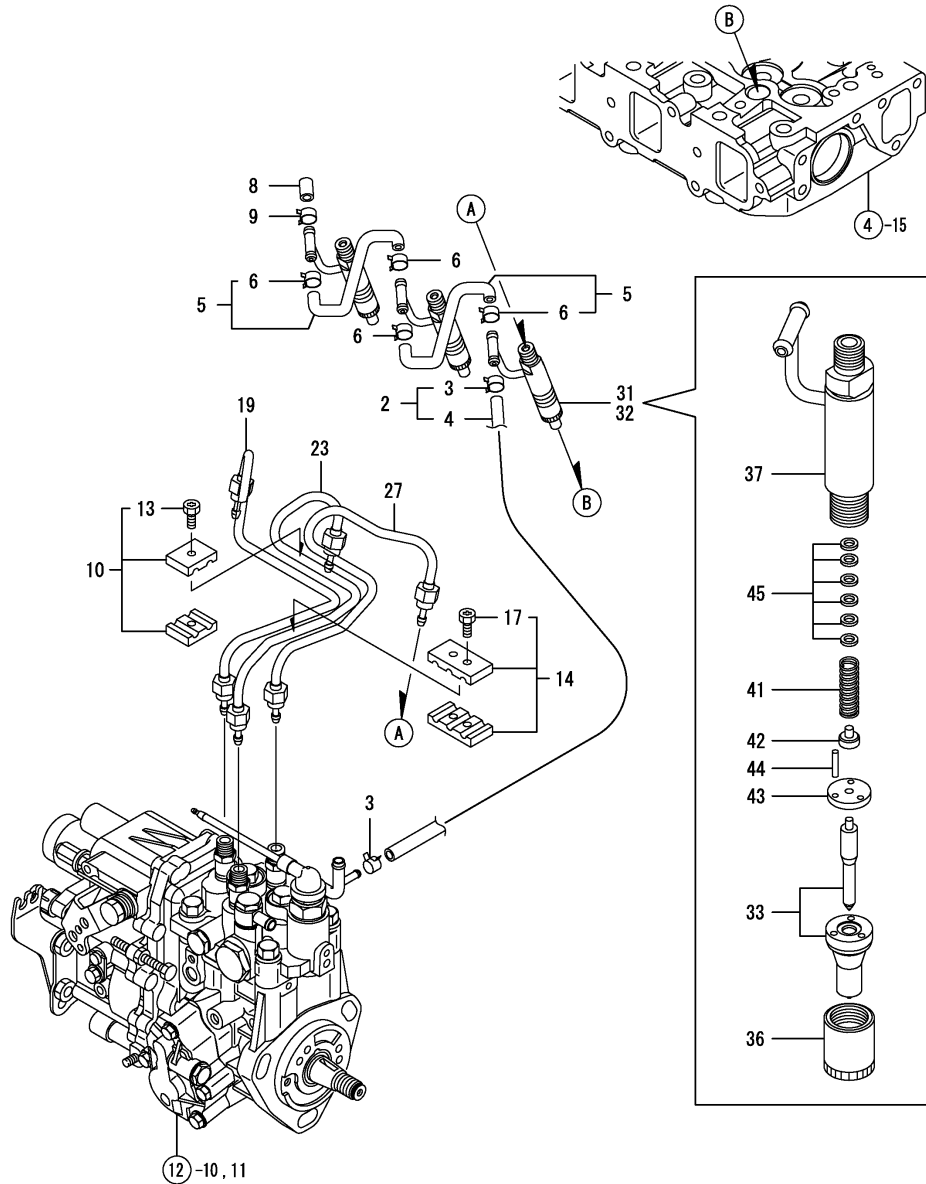
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119802-51250	BRACKET, PUMP	1	1						
2	1	26106-080162	BOLT M 8X 16 PLATED	1	1						
3	1	26106-080202	BOLT M 8X 20 PLATED	1	1						
10	1	729066-51330	INJECTION PUMP ASSY	1							
11	1	729066-51320	INJECTION PUMP ASSY		1						

Remarks
 (REMARKS)"EFFECTIVE MACHINE NO." OF
 ENGINE IS INDICATED ON THE
 ENGINE LABEL WHICH IS SHOWN
 IN FIG.4.

Fig.13. FUEL INJECTION VALVE

(A)=3TNV88-NRE
(B)=3TNV88-MRE
(C)=

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



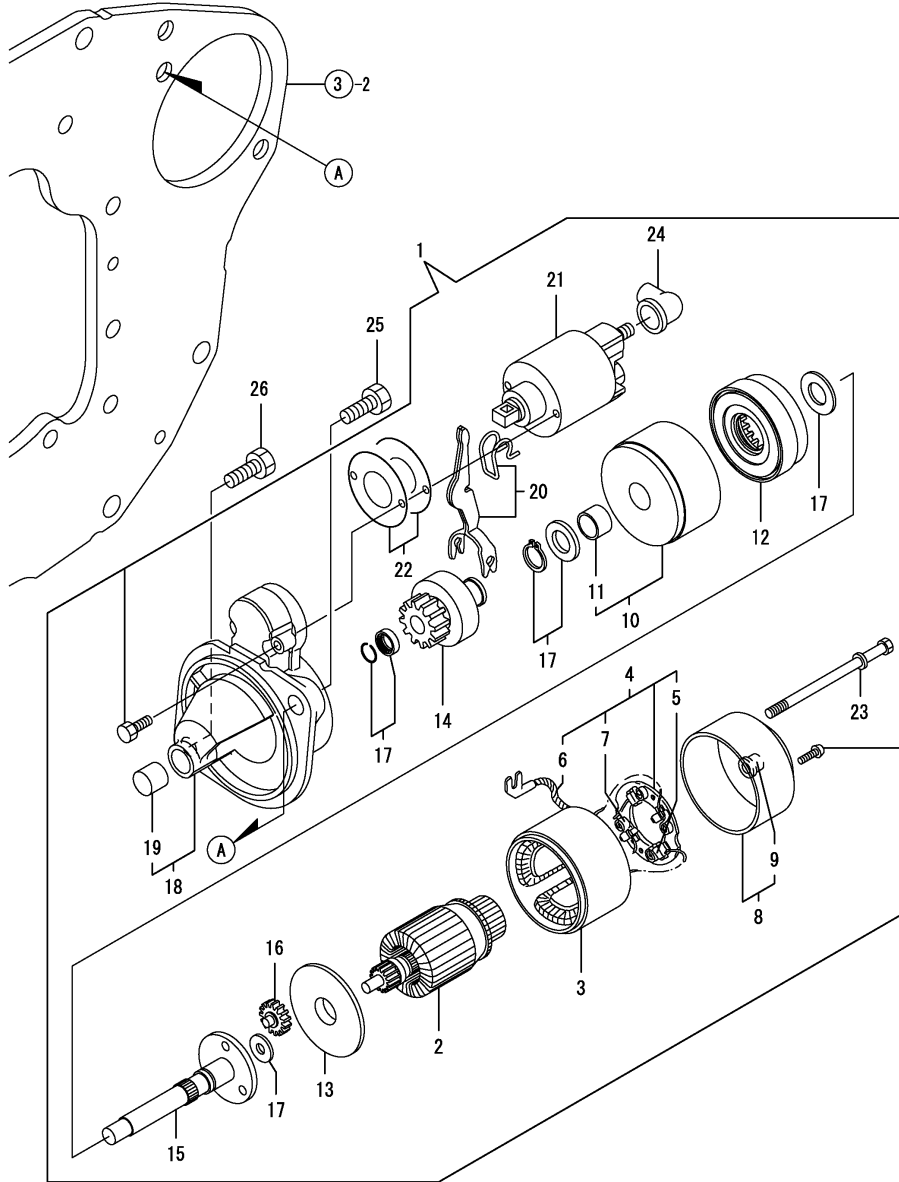
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
2	1	119802-59550	PIPE ASSY, RETURN	1	1						
3	2	124722-59050	CLAMP 9	2	2						
4	2	119802-59560	PIPE, FUEL RETURN	1	1						
5	1	129486-59551	PIPE, FUEL RETURN	2	2						
6	2	124722-59050	CLAMP 9	4	4						
8	1	119593-59580	CAP	1	1						
9	1	124060-77680	CLAMP 10	1	1						
10	1	119305-59120	RETAINER	1	1						
13	2	129150-59131	BOLT M4X14,HEX.SCKT.	1	1						
14	1	129150-59120	RETAINER, INJ. PIPE	1	1						
17	2	129150-59131	BOLT M4X14,HEX.SCKT.	2	2						
19	1	129004-59810	PIPE ASSY, INJECTION	1	1						
23	1	129004-59820	PIPE ASSY, INJECTION	1	1						
27	1	129004-59830	PIPE ASSY, INJECTION	1	1						
31	1	729245-53100	FUEL INJECTOR(WBB	3							
32	1	729004-53101	VALVE ASSY, F.INJECT		3						
33	2	129004-53001	NOZZLE CMP	3	3						
36	2	114250-53080	NUT, NOZZLE CASE	3	3						
37	2	119802-53100	HOLDER ASSY, NOZZLE	3	3						
41	2	114250-53120	SPRING, NOZZLE	3	3						
42	2	114250-53130	SEAT, NOZZLE SPRING	3	3						
43	2	114250-53140	PLATE, STOP	3	3						
44	2	114250-53210	PIN	6	6						
45	2	114250-53400	SHIM PACK	3	3						

Remarks
(REMARKS)"EFFECTIVE MACHINE NO." OF
ENGINE IS INDICATED ON THE
ENGINE LABEL WHICH IS SHOWN
IN FIG.4.

Fig.14. STARTING MOTOR

(A)=3TNV88-NRE
(B)=3TNV88-MRE
(C)=

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



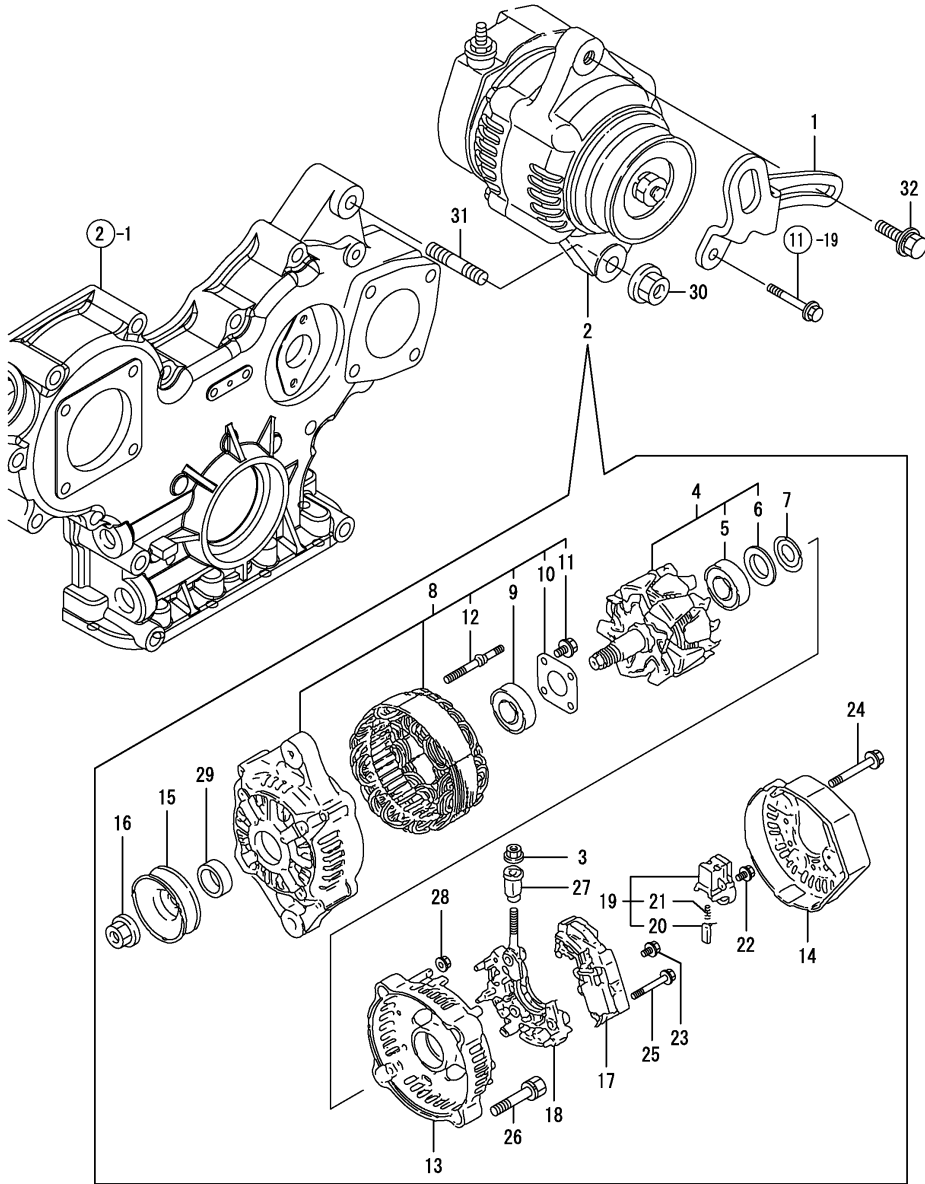
REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129052-77010	STARTER	1	1						
2	2	129698-77101	ARMATURE ASSY	1	1						
3	2	129698-77110	COIL ASSY, FIELD	1	1						
4	2	129698-77120	HOLDER ASSY,BRUSH	1	1						
5	3	129698-77130	BRUSH (-)	2	2						
6	3	129698-77140	BRUSH(+) SET	1	1						
7	3	129698-77150	SPRING, BRUSH	4	4						
8	2	129698-77161	COVER ASSY, REAR	1	1						
9	3	129698-77170	REAR COVER METAL	1	1						
10	2	129698-77180	BRACKET	1	1						
11	3	129698-77190	BRACKET	1	1						
12	2	129698-77200	INTERNAL GEAR	1	1						
13	2	129698-77210	BRACKET	1	1						
14	2	129698-77220	PINION ASSY	1	1						
15	2	129698-77230	SHAFT(PINION)	1	1						
16	2	129698-77240	GEAR	3	3						
17	2	129698-77250	WASHER SET	1	1						
18	2	129052-77030	HOUSING ASSY, GEARS	1	1						
19	3	X2114535200	METAL, STARTER	1	1						
20	2	129698-77270	LEVER, SHIFT	1	1						
21	2	129698-77020	MAGNETIC SWITCH ASSY	1	1						
22	2	129698-77280	COVER ASSY, DUST	1	1						
23	2	124195-77770	THROUGH BOLT	2	2						
24	2	X2114274200	COVER, TERMINAL	1	1						
25	1	129155-77060	BOLT, STARTER	1	1						
26	1	26116-120202	BOLT M12X 20 PLATED	1	1						

Remarks
(REMARKS)"EFFECTIVE MACHINE NO." OF
ENGINE IS INDICATED ON THE
ENGINE LABEL WHICH IS SHOWN
IN FIG.4.

Fig.15. GENERATOR

(A)=3TNV88-NRE
(B)=3TNV88-MRE
(C)=

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



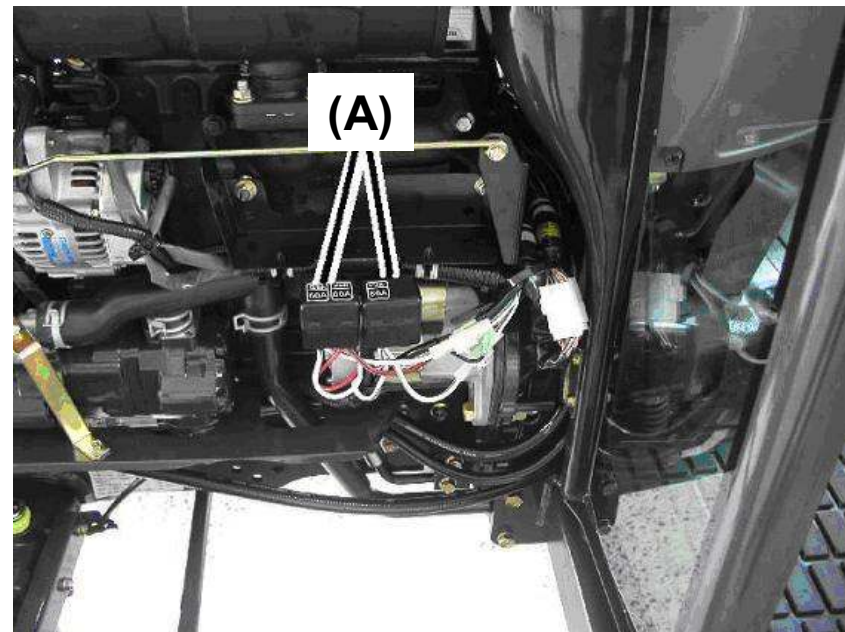
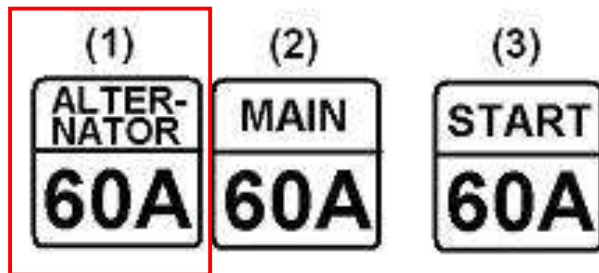
REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129263-77330	ADJUSTER, BELT	1	1						
2	1	129423-77200	GENERATOR	1	1						
3	2	X9490561001	NUT	1	1						
4	2	119620-77380	ROTOR ASSY	1	1						
5	3	123501-79240	BEARING, BALL	1	1						
6	3	119620-79250	COVER, BEARING	1	1						
7	2	119620-79360	THRUST WASHER	1	1						
8	2	119620-77421	FLAME ASSY, DRIVE	1	1						
9	3	119620-79200	BALL BEARING	1	1						
10	3	119620-79210	PLATE	1	1						
11	3	119620-79220	SCREW	4	4						
12	3	119620-79230	BOLT, STUD	2	2						
13	2	119620-77440	FLAME ASSY, REAR	1	1						
14	2	129240-79300	COVER	1	1						
15	2	119620-77461	PULLEY	1	1						
16	2	119620-77471	NUT	1	1						
17	2	129423-77710	REGULATOR ASSY	1	1						
18	2	119620-79260	HOLDER	1	1						
19	2	129052-79270	HOLDER, BRUSH	1	1						
20	3	119620-77480	BRUSH ASSY	2	2						
21	3	119620-79280	SPRING	2	2						
22	2	119620-79290	SCREW	6	6						
23	2	119620-79300	SCREW	1	1						
24	2	119620-79310	BOLT	3	3						
25	2	119620-79320	SCREW W/WASHER	2	2						
26	2	119620-79330	BOLT	2	2						
27	2	119620-79340	INSULATION BUSH	1	1						
28	2	119620-79350	NUT	2	2						
29	2	119620-77490	COLLAR	1	1						
30	1	26306-100002	NUT	1	1						
31	1	129795-01900	STUD	1	1						
32	1	119810-77340	BOLT	1	1						

Remarks
(REMARKS)"EFFECTIVE MACHINE NO." OF
ENGINE IS INDICATED ON THE
ENGINE LABEL WHICH IS SHOWN
IN FIG.4.

1. Replace the slow blow fuse

Remove negative cable from battery.

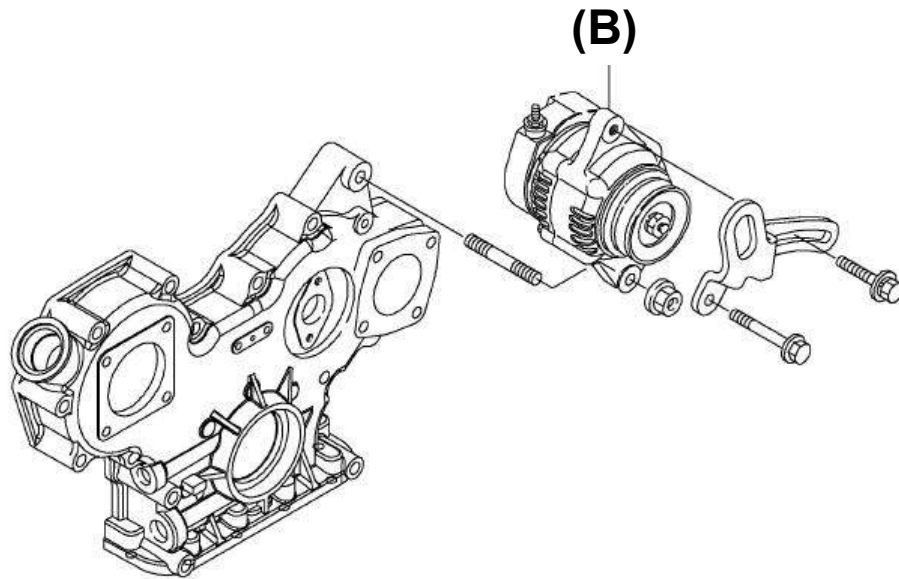
Replace the ALTERNATOR SLOW BLOW FUSE (1) to 80A fuse which is supplied with alternator.



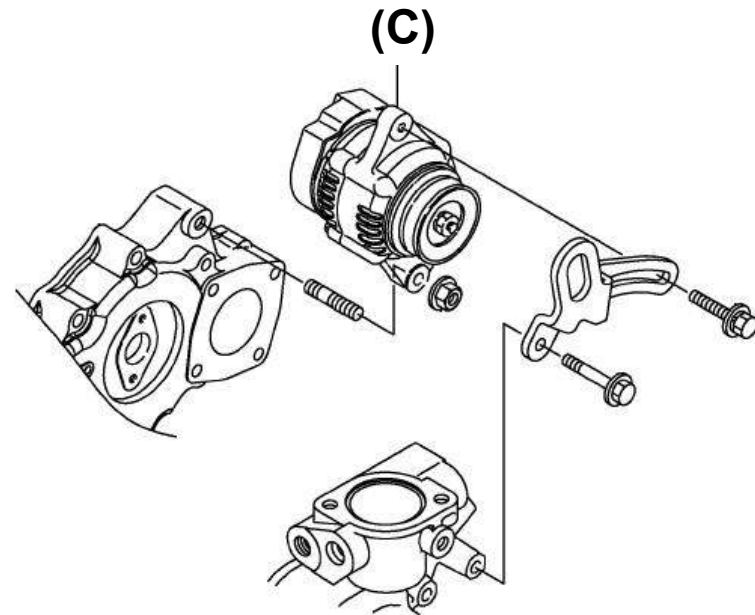
(A) – SLOW BLOW FUSE

2. Replace the alternator.

Replace to the large capacity alternator (C), 119626-77210.
Attach negative cable to battery.



NORMAL
(B) 129423-77200 / GENERATOR, 12V-40A



LARGE CAPACITY
(C) 119626-77210 / ALTERNATOR 12V-55A

Fig.16. SHORT BLOCK

0CNP4-G32100 16. SHORT BLOCK

(A)=3TNV88-NRE
(B)=3TNV88-MRE
(C)=

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

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	729235-01000	SHORT BLOCK ASSY	1	1						
2	2	129235-01560	BLOCK ASSY, CYLINDER	1	1						
3	2	729402-01650	CASE ASSY, OIL SEAL	1	1						
4	2	129150-14200	TAPPET	6	6						
5	2	129129-14580	CAMSHAFT ASSY	1	1						
6	2	129004-21002	CRANKSHAFT ASSY	1	1						
7	2	129005-22080	PISTON ASSY	3	3						
8	2	129202-22300	PIN, PISTON	3	3						
9	2	729402-23100	ROD ASSY, CONNECTING	3	3						
10	2	119802-25101	GEAR ASSY, IDLE	1	1						
11	2	22252-000260	RING, 26	6	6						
12	2	26106-080142	BOLT, 8 X14	2	2						

NOT ILLUSTRATED

Remarks
* NOT ILLUSTRATED.

Part Number Index

All parts are stipulated in the order of part numbers.

(Depending on the area in which the part is used.)

This index will display the location of the part according to each part number.

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114250-53130	13	42
114250-53140	13	43
114250-53210	13	44
114250-53400	13	45
119131-18320	6	3
119305-59120	13	10
119593-59580	13	8
119609-32040	2	17
119620-77380	15	4
119620-77421	15	8
119620-77440	15	13
119620-77461	15	15
119620-77471	15	16
119620-77480	15	20
119620-77490	15	29
119620-79200	15	9
119620-79210	15	10
119620-79220	15	11
119620-79230	15	12
119620-79250	15	6
119620-79260	15	18
119620-79280	15	21
119620-79290	15	22
119620-79300	15	23
119620-79310	15	24
119620-79320	15	25
119620-79330	15	26
119620-79340	15	27
119620-79350	15	28
119620-79360	15	7
119625-11880	4	33
119802-01560	2	13
119802-03110	4	43
119802-03121	4	44
119802-03130	4	45
119802-03141	4	46
119802-11260	4	6
119802-11270	4	7
119802-11280	4	8
119802-11870	4	32
119802-21202	8	5
119802-25051	7	9
119802-25070	7	13
119802-25100	7	10
119802-25101	16	10
119802-25901	7	16
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119802-32111	2	18
119802-32120	2	19
119802-32130	2	20
119802-35100	10	9
119802-35110	10	10
119802-39450	10	17
119802-51250	12	1
119802-53100	13	37
119802-59550	13	2
119802-59560	13	4
119810-77340	15	32
119852-01600	3	2
119852-49300	11	15
119852-49530	11	29
120130-11860	4	19
120270-54410	4	35
121023-01550	2	28
121111-21501	8	12
121400-11340	4	28
121520-34810	10	1
121550-23200	8	30
121550-49111	11	30
121850-21680	8	11
121850-42410	11	12
121850-51960	2	21
123501-79240	15	5
123900-13630	6	4
124060-01050	1	5
124060-77680	13	9
124160-01751	2	14
124160-01910	1	7
		8
124160-11360	4	52
124160-39140	10	16
124195-77770	14	23
124240-01871	2	15
124240-01883	9	1
124250-49351	11	32
124460-11340	4	29
124465-44950	11	38
124550-21600	8	16
124722-59050	13	3
		6
129001-01250	1	6
129001-01340	1	33
129001-02930	1	25
129001-12110	5	5
129001-32330	2	11
129001-91841	2	22

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129004-01190	1	31
129004-01520	2	12
129004-03010	4	41
129004-11101	4	24
129004-11241	4	3
129004-11251	4	4
129004-11310	4	49
129004-11650	4	10
129004-11700	4	15
129004-11900	4	34
129004-13200	6	7
129004-21002	8	1
	16	6
129004-53001	13	33
129004-59810	13	19
129004-59820	13	23
129004-59830	13	27
129005-03080	5	1
129005-12100	5	3
129005-22080	8	17
	16	7
129005-22500	8	19
129005-22900	8	35
129005-22950	8	37
129005-59830	10	18
129052-77010	14	1
129052-77030	14	18
129052-79270	15	19
129054-01640	3	8
129054-42320	11	11
129054-42450	11	31
129055-01770	3	7
129055-11350	4	40
129055-13521	6	8
129055-21592	8	13
129055-21650	8	9
129055-34811	10	2
129055-42010	11	1
129055-49300	11	16
129055-49320	11	39
129100-01580	3	1
		14
	8	2
129100-01640	3	15
129100-01730	3	5
129100-11111	4	25
129100-23910	8	29
129100-35140	10	11
129107-44901	11	37
129120-77501	5	8

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129150-01200	1	32
129150-01580	2	31
129150-01881	7	17
129150-02020	1	10
129150-02450	7	4
129150-02870	1	34
129150-02930	1	28
129150-02940	1	37
129150-03070	4	42
129150-11230	4	11
129150-11280	4	9
129150-11370	4	14
129150-11750	4	13
129150-11810	4	21
129150-13110	6	2
129150-14101	7	7
129150-14200	7	1
	16	4
129150-14400	7	2
129150-23600	8	31
129150-23610	8	33
129150-25301	7	15
129150-26000	7	18
129150-26050	7	19
129150-35042	10	3
129150-35091	10	4
129150-35111	10	12
129150-35153	10	13
129150-42300	11	8
129150-42311	11	9
129150-49360	11	33
129150-49811	11	27
129150-59120	13	14
129150-59131	13	13
		17
129150-77511	5	9
129155-77060	14	25
129202-22300	8	23
	16	8
129235-01560	16	2
129240-79300	15	14
129263-13220	6	5
129263-77330	15	1
129410-03990	5	2
129418-32320	2	10
129423-77200	15	2
129423-77710	15	17
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129486-01670	3	18
129486-42050	11	17
129486-59551	13	5
129550-42350	11	21
129556-44740	11	23
129698-77020	14	21
129698-77101	14	2
129698-77110	14	3
129698-77120	14	4
129698-77130	14	5
129698-77140	14	6
129698-77150	14	7
129698-77161	14	8
129698-77170	14	9
129698-77180	14	10
129698-77190	14	11
129698-77200	14	12
129698-77210	14	13
129698-77220	14	14
129698-77230	14	15
129698-77240	14	16
129698-77250	14	17
129698-77270	14	20
129698-77280	14	22
129795-01780	3	17
129795-01800	2	6
129795-01900	15	31
129795-01950	2	16
129795-02411	1	13
129795-11120	4	26
129795-11180	4	27
129795-21661	8	10
129795-49551	11	28
129900-07900	4	1
129900-32130	2	9
158552-51151	7	23
171051-01921	1	9
171350-13100	6	1
171353-44760	11	24
194521-41570	9	7
		23
198172-41110	9	2
198280-41150	9	18
729004-01500	2	1
729004-53101	13	32
729005-01560	1	1
729066-51320	12	11
729066-51330	12	10

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X2114274200	14	24
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X9490561001	15	3

PARTS No.	Fig.	Ref.No.
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PARTS No.	Fig.	Ref.No.
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YANMAR CO., LTD.