



# PARTS CATALOG

Published

2010/9 (Sep.)

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OCT10-G24400

## P R E F A C E

1. This Parts Catalog carries all parts incorporated in YANMAR Model **F180D-P, F180DXP-P, F220D-P, F220DXP-P** tractors manufactured since August 1991.
2. Each illustration corresponds to the parts list on the following page.
3. When ordering parts, clearly write down the engine model and serial number, as well as the name and number of each part in your order sheet. This will help insure reliable delivery of the parts you have ordered.



## Directions for the Parts Catalog.

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

OCF10-G21601 29. FUEL INJECTION PUMP(W/BOOST)

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 newly added.
Z		Part discontinued.
F		Not interchangeable by a single part but interchangeable together with related parts.
K		Changes only for used parts quantities.

### ④ Effective Machine No.

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

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

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

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

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

### ⑤ Remarks 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 : F180D/220D(XP)-P  
PC NO : OCT10-G24400

Fig.No. GROUP NAME

## ENGINE 3TNC78/80-RN

1. CYLINDER BLOCK
2. GEAR HOUSING(NON-POWER STEERIN
3. GEAR HOUSING(POWER STEERING)
4. MOUNTING FLANGE & OIL PAN
5. BONNET
6. CYLINDER HEAD
7. SUCTION MANIFOLD & AIR CLEANER
8. EXHAUST MANIFOLD & MUFFLER
9. CAMSHAFT & DRIVING GEAR
10. CRANKSHAFT & PISTON
11. HYDRAULIC PUMP
12. LUB. OIL SYSTEM
13. COOLING WATER SYSTEM
14. RADIATOR
15. FUEL INJECTION PUMP
16. GOVERNOR(FOR 3TNC78)
17. GOVERNOR(FOR 3TNC80)
18. FUEL INJECTION VALVE
19. FUEL FILTER
20. ENGINE STOP DEVICE
21. STARTING MOTOR
22. GENERATOR
23. GASKET SET(OPTIONAL)

## CHASSIS F180/220D-P

24. AXEL LEVER & FOOT AXLE
25. FUEL TANK
26. FUEL PIPE
27. BELT COVER

Fig.No. GROUP NAME

28. FRONT BRACKET
29. CENTER PIN SUPPORT
30. TIE-ROD
31. RING GEAR & DIFFERENTIAL GEAR
32. PROPELLER SHAFT
33. FRONT SHAFT (1)
34. FRONT AXLE CASE
35. FRONT GEAR CASE
36. FRONT SHAFT(2) & FRONT SPINDLE
37. FRONT WHEEL TIRE (L)
38. FRONT WHEEL TIRE (R)
39. STEERING GEAR
40. STEERING GEAR(POWER STEERING)
41. DRAG-ROD
42. CLUTCH HOUSING
43. SINGLE CLUTCH & CLUTCH SHAFT
44. CLUTCH RELEASE
45. CLUTCH PEDAL
46. TRANSMISSION CASE
47. CENTER PLATE
48. CENTER PLATE(POWER SHIFT)
49. POWER SHIFT PUMP
50. REGULATOR
51. SECOND RELIEF & SEAL CASE
52. OIL STRAINER & REVERSE SHAFT
53. MAIN DRIVE GEAR
54. MAIN SHAFT
55. POWER SHIFT CLUTCH SHAFT
56. COUNTER SHAFT
57. P.T.O. DRIVE SHAFT

# CONTENTS

MODEL : F180D/220D(XP)-P  
PC NO : OCT10-G24400

## Fig.No. GROUP NAME

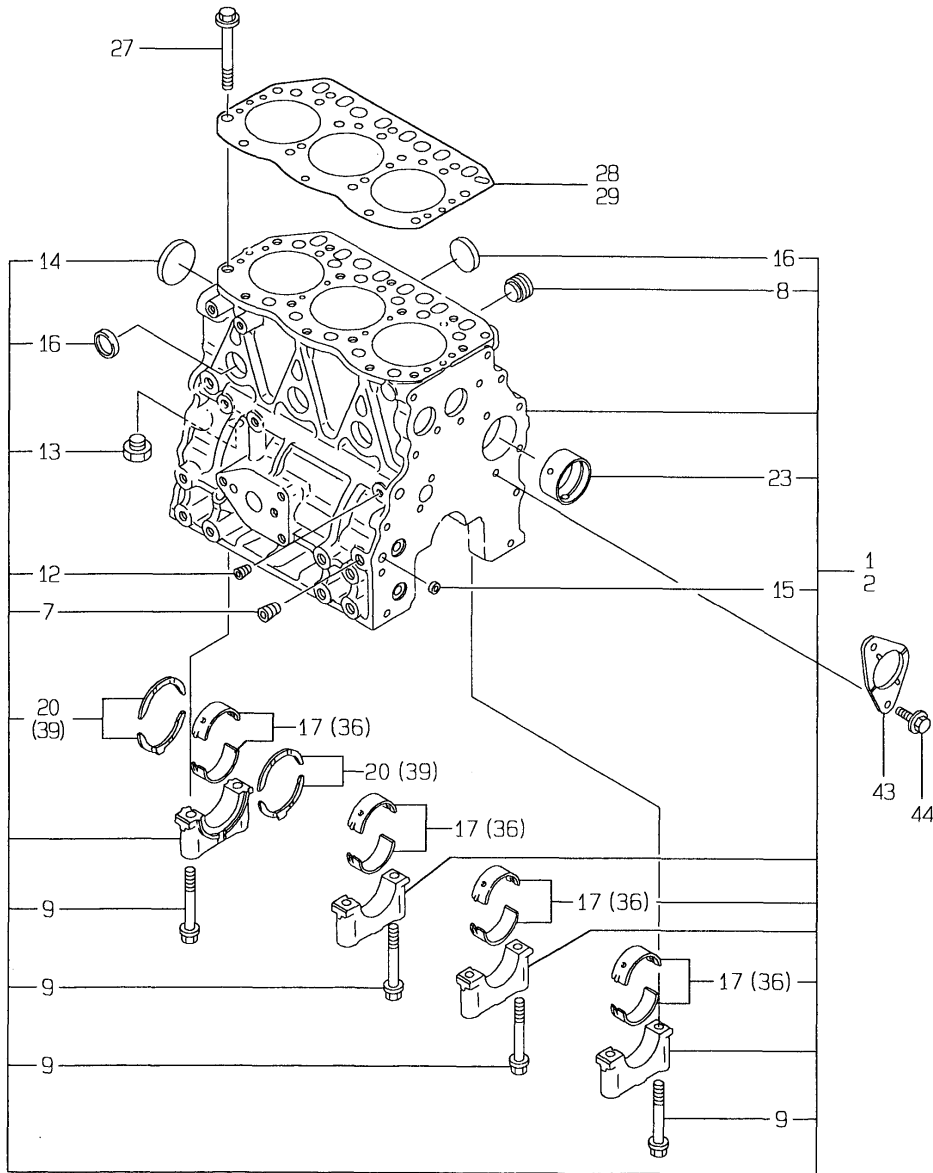
- 58. P.T.O. SHAFT
- 59. MAIN SHIFT
- 60. MAIN SHIFT(POWER SHIFT)
- 61. MECHANICAL CONTROL
- 62. POWER SHIFT CONTROL
- 63. RANGE SHIFT
- 64. P.T.O. SHIFT
- 65. FRONT DRIVE
- 66. RING GEAR&DIFFERENTIAL CARRIER
- 67. REAR HOUSING
- 68. DIFFERENTIAL LOCK
- 69. FINAL PINION & FINAL GEAR
- 70. REAR WHEEL TIRE (L)
- 71. REAR WHEEL TIRE (R)
- 72. BRAKE (L)
- 73. BRAKE (R)
- 74. BRAKE PEDAL
- 75. HYDRAULIC PUMP
- 76. HYDRAULIC PUMP(POWER STEERING)
- 77. HYDRAULIC CYLINDER CASE
- 78. HYDRAULIC SIDE COVER
- 79. PISTON & LIFT CRANK
- 80. CONTROL VALVE
- 81. RELIEF VALVE
- 82. STOP VALVE
- 83. SAFETY VALVE
- 84. HYDRAULIC CONTROL
- 85. HYDRAULIC PIPING
- 86. HYDRAULIC PIPING(POWER STEERIN
- 87. WIRE HARNESS

## Fig.No. GROUP NAME

- 88. BATTERY, HORN & ELECTRIC PARTS
- 89. SWITCH
- 90. LAMP
- 91. METER
- 92. BONNET
- 93. DASHBOARD & REARVIEW MIRROR
- 94. FENDER
- 95. STEP
- 96. SEAT
- 97. LABEL
- 98. P.T.O. GUARD & TOP LINK
- 99. LIFT LINK
- 100. LOWER LINK & CHECK CHAIN
- 101. DRAWBAR HITCH
- 102. BALANCE WEIGHT
- 103. TOOL
- 104. BATTERY ASY

Fig.1. CYLINDER BLOCK

1. CYLINDER BLOCK



Remarks

- (1) UNDER-SIZED (U.S=0.25) PART.
- (2) OVER-SIZED (O.S=0.25) PART.

OCT10-G24400 1. CYLINDER BLOCK

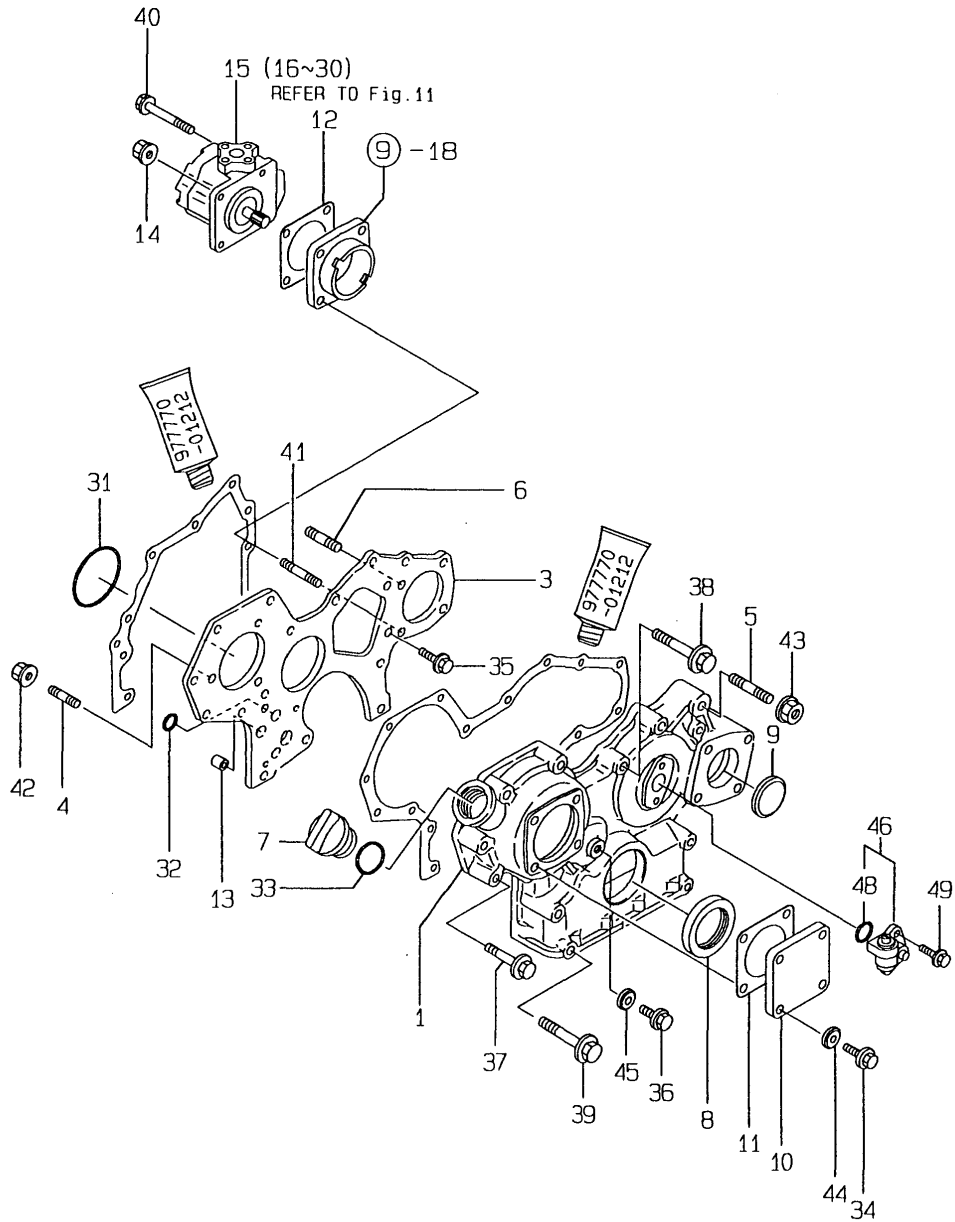
(A)=3TNC78-RN  
(B)=3TNC78-RNP  
(C)=3TNC80-RN

(D)=3TNC80-RNP  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719811-01560	BLOCK ASSY, CYLINDER	1	1						
2	1	719812-01560	BLOCK ASSY, CYLINDER				1	1			
7	3	124160-01910	PLUG PT1/4	2	2	2	2				
8	3	171051-01921	PLUG	1	1	1	1				
9	3	119620-02020	BOLT	8	8	8	8				
12	3	23871-010000	PLUG PT1/8,SCREW	1	1	1	1				
13	3	23887-120002	PLUG M12,HEX.	1	1	1	1				
14	3	27231-500000	PLUG 50	1	1	1	1				
15	3	27241-120000	PLUG 12	2	2	2	2				
16	3	27241-300000	PLUG 30	6	6	6	6				
17	2	719810-02800	MAIN BEARING	4	4	4	4				
20	2	719810-02930	BEARING, THRUST	2	2	2	2				
23	2	129795-02411	BUSH, CAMSHAFT	1	1	1	1				
27	1	119810-01200	BOLT, CYL. HEAD	14	14	14	14				
28	1	119811-01330	GASKET, HEAD	1	1						
29	1	119812-01330	GASKET, HEAD			1	1				
36	1	119810-02870	MAIN BEARING US=0.25	4	4	4	4				1
39	1	119810-02940	BEARING,THRUST .25OS	2	2	2	2				2
43	1	129150-02450	METAL,THRUST(CAM	1	1	1	1				
44	1	26106-080162	BOLT M 8X 16 PLATED	2	2	2	2				

Fig.2. GEAR HOUSING(NON-POWER STEERIN

2. GEAR HOUSING  
(NON-POWER STEERING)



(A)=3TNC78-RN  
(B)=3TNC78-RNP  
(C)=3TNC80-RN

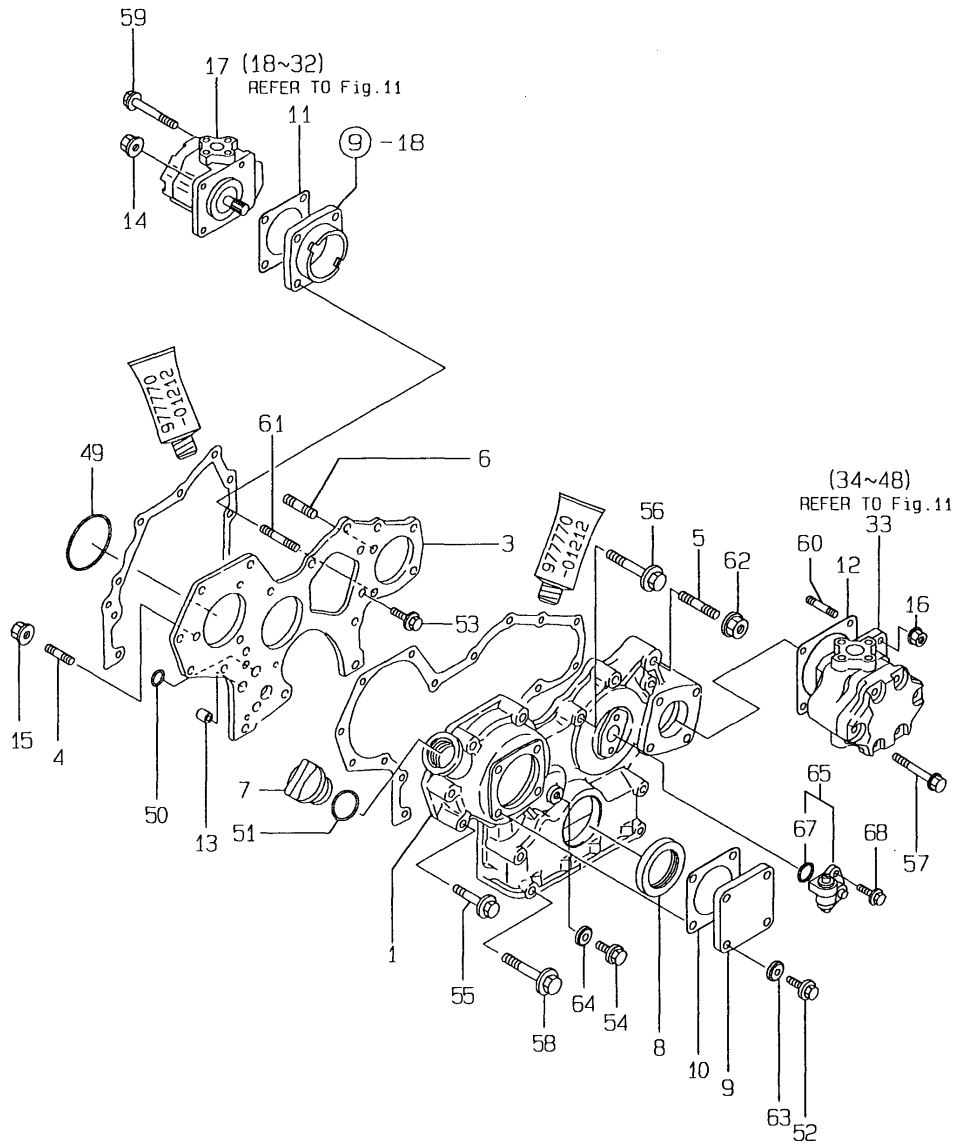
(D)=3TNC80-RNP  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129100-01500	HOUSING, GEAR	1							
3	1	129150-01520	FLANGE	1							
4	1	121450-01560	STUD M 8X 22	3							
5	1	121450-01570	STUD	1							
6	1	129150-01580	STUD 8 X 30	1							
7	1	124160-01751	COVER,FILLER	1							
8	1	129795-01800	SEAL, OIL	1							
9	1	119807-01870	PLUG, BLIND	1							
10	1	124240-01871	COVER, HO-P	1							
11	1	124240-01883	GASKET, PUMP	1							
12	1	124240-01883	GASKET, PUMP	1							
13	1	129795-01950	PIPE, KNOCK L=18	2							
14	1	194990-22050	NUT W/WASHER 8	2							
15	1	198010-41110	PUMP PW1-C-7A, HYDRO.	1							
18	2	178070-10400	RING	1							
21	2	194521-41570	PIN 11X7	2							
28	2	22252-000320	CIRCLIP 32	1							
29	2	24421-153207	SEAL TC15 32 07, OIL	1							
30	2	26016-080352	BOLT M 8X 35	4							
31	1	121850-51960	O-RING, F.I.PUMP	1							
32	1	24311-000160	O-RING 1A P-16.0	2							
33	1	24311-000320	O-RING 1A P-32.0	1							
34	1	26106-080122	BOLT M 8X 12 PLATED	4							
35	1	26106-080162	BOLT M 8X 16 PLATED	3							
36	1	26106-080162	BOLT M 8X 16 PLATED	1							
37	1	26106-080452	BOLT M 8X 45 PLATED	6							
38	1	26106-080552	BOLT M 8X 55 PLATED	3							
39	1	26106-080852	BOLT M 8X 85 PLATED	4							
40	1	26106-080952	BOLT M 8X 95 PLATED	2							
41	1	26216-080402	STUD M 8X 40 PLATED	1							
42	1	26366-080002	NUT M 8	3							
43	1	26366-100002	NUT M10	1							
44	1	43400-500410	SEAL WASHER 8S	4							
45	1	43400-500410	SEAL WASHER 8S	1							
46	1	129150-91400	GEAR UNIT, TACHOMETER	1							
48	2	24341-000240	O-RING 1A S-24.0	1							
49	1	26106-060162	BOLT M 6X 16 PLATED	2							



Fig.3. GEAR HOUSING(POWER STEERING)

3. GEAR HOUSING  
(POWER STEERING)



OCT10-G24400 3. GEAR HOUSING(POWER STEERING)

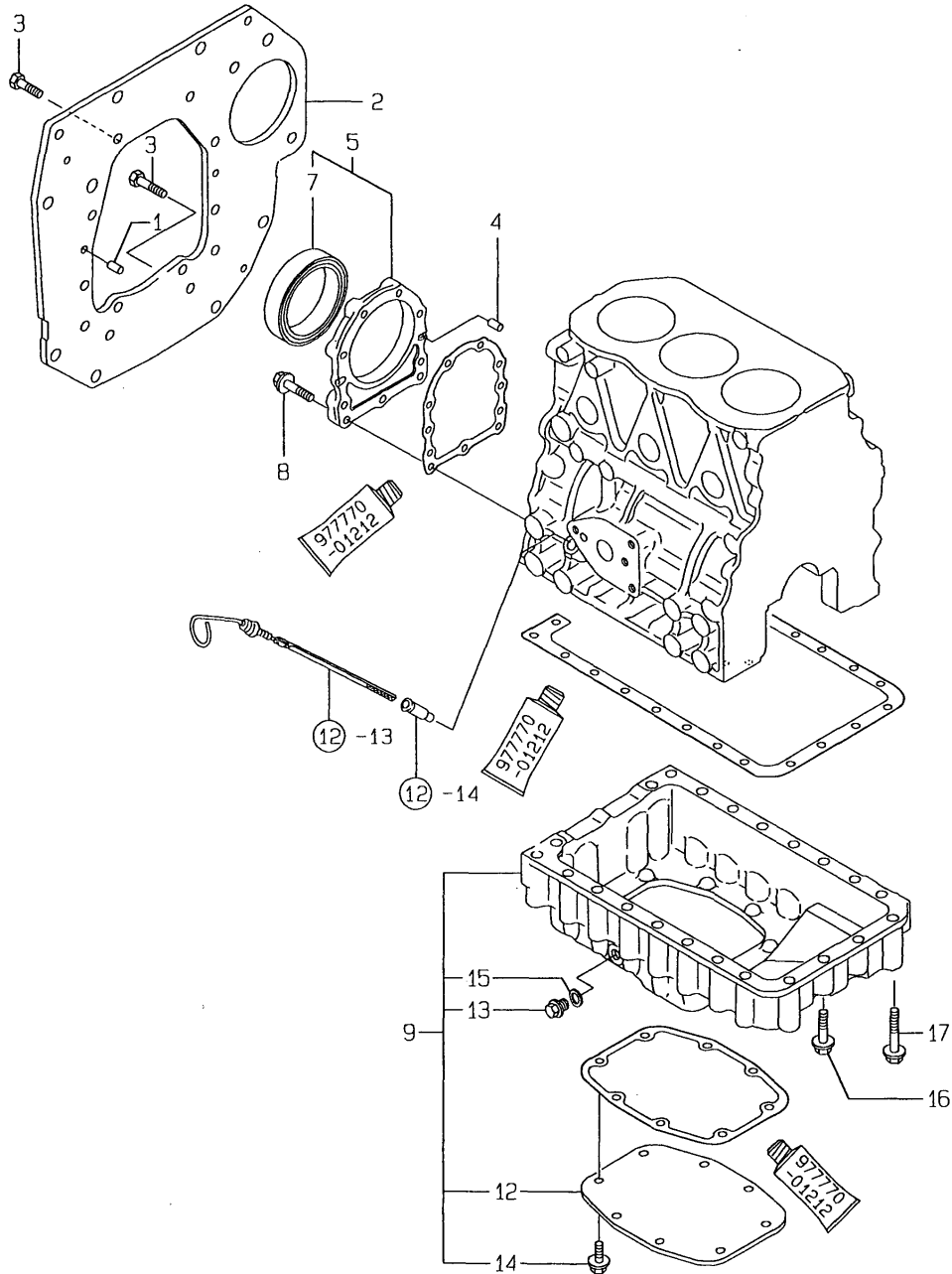
(A)=3TNC78-RN  
(B)=3TNC78-RNP  
(C)=3TNC80-RN

(D)=3TNC80-RNP  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129100-01500	HOUSING, GEAR		1		1				
3	1	129150-01520	FLANGE		1		1				
4	1	121450-01560	STUD M 8X 22		3		3				
5	1	121450-01570	STUD		1		1				
6	1	129150-01580	STUD 8 X 30		1		1				
7	1	124160-01751	COVER,FILLER		1		1				
8	1	129795-01800	SEAL, OIL		1		1				
9	1	124240-01871	COVER, HO-P		1		1				
10	1	124240-01883	GASKET, PUMP		1		1				
11	1	124240-01883	GASKET, PUMP		1		1				
12	1	124240-01883	GASKET, PUMP		1		1				
13	1	129795-01950	PIPE, KNOCK L=18		2		2				
14	1	194990-22050	NUT W/WASHER 8		2		2				
15	1	194990-22050	NUT W/WASHER 8		3		3				
16	1	194990-22050	NUT W/WASHER 8		2		2				
17	1	198010-41110	PUMP PW1-C-7A, HYDRO.		1		1				
20	2	178070-10400	RING		2		2				
23	2	194521-41570	PIN 11X7		2		2				
30	2	22252-000320	CIRCLIP 32		1		1				
31	2	24421-153207	SEAL TC15 32 07, OIL		1		1				
32	2	26016-080352	BOLT M 8X 35		4		4				
33	1	198011-41110	PUMP PW1-C-4C, HYDRO.		1		1				
36	2	178070-10400	RING		1		1				
45	2	194521-41570	PIN 11X7		2		2				
46	2	22252-000320	CIRCLIP 32		1		1				
47	2	24421-153207	SEAL TC15 32 07, OIL		1		1				
48	2	26016-080352	BOLT M 8X 35		4		4				
49	1	121850-51960	O-RING, F.I.PUMP		1		1				
50	1	24311-000160	O-RING 1A P-16.0		2		2				
51	1	24311-000320	O-RING 1A P-32.0		1		1				
52	1	26106-080122	BOLT M 8X 12 PLATED		4		4				
53	1	26106-080162	BOLT M 8X 16 PLATED		3		3				
54	1	26106-080162	BOLT M 8X 16 PLATED		1		1				
55	1	26106-080452	BOLT M 8X 45 PLATED		6		6				
56	1	26106-080552	BOLT M 8X 55 PLATED		3		3				
57	1	26106-080802	BOLT M 8X 80 PLATED		2		2				
58	1	26106-080852	BOLT M 8X 85 PLATED		4		4				
59	1	26106-080952	BOLT M 8X 95 PLATED		2		2				
60	1	26216-080202	STUD M 8X 20 PLATED		2		2				
61	1	26216-080402	STUD M 8X 40 PLATED		1		1				
62	1	26366-100002	NUT M10		1		1				
63	1	43400-500410	SEAL WASHER 8S		4		4				
64	1	43400-500410	SEAL WASHER 8S		1		1				
65	1	129150-91400	GEAR UNIT, TACHOMETER		1		1				
67	2	24341-000240	O-RING 1A S-24.0		1		1				
68	1	26106-060162	BOLT M 6X 16 PLATED		2		2				

Fig.4. MOUNTING FLANGE & OIL PAN

4.MOUNTING FLANGE & OIL PAN



OCT10-G24400 4. MOUNTING FLANGE & OIL PAN

(A)=3TNC78-RN  
(B)=3TNC78-RNP  
(C)=3TNC80-RN

(D)=3TNC80-RNP  
(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	2				
2	1	119808-01600	FLANGE, MOUNTING	1	1	1	1				
3	1	26206-100202	BOLT M10X20	10	10	10	10				
4	1	129100-01580	PARALLEL PIN 8X16	2	2	2	2				
5	1	119860-01640	CASE ASSY, OIL SEAL	1	1	1	1				
7	2	119810-01780	SEAL, OIL	1	1	1	1				
8	1	26106-080302	BOLT M 8X 30 PLATED	9	9	9	9				
9	1	119808-01770	PAN, LUB OIL	1	1	1	1				
12	2	119808-01720	COVER, OIL SUMP	1	1	1	1				
13	2	129054-01640	PLUG, DRAIN	1	1	1	1				
14	2	26106-080122	BOLT M 8X 12 PLATED	8	8	8	8				
15	2	43400-500450	SEAL WASHER 12S	1	1	1	1				
16	1	26106-080502	BOLT M 8X 50 PLATED	2	2	2	2				
17	1	26106-080702	BOLT M 8X 70 PLATED	20	20	20	20				

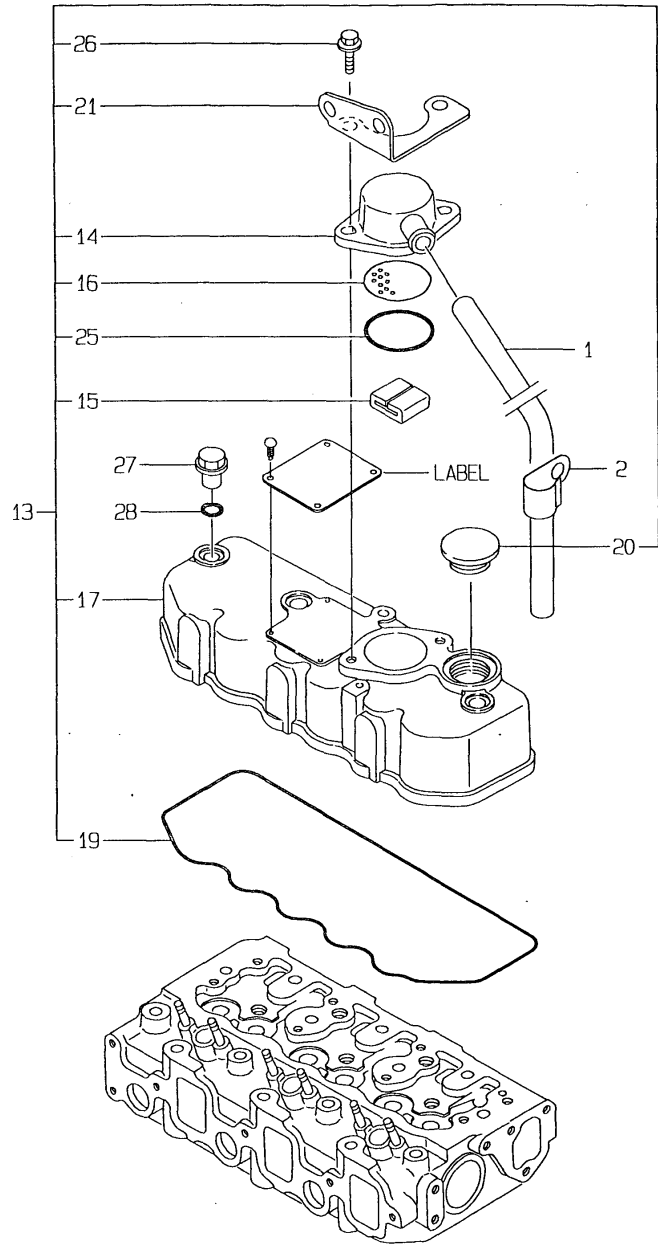
Fig.5. BONNET

OCT10-G24400 5. BONNET

(A)=3TNC78-RN  
(B)=3TNC78-RNP  
(C)=3TNC80-RN

(D)=3TNC80-RNP  
(E)=  
(F)=

5. BONNET



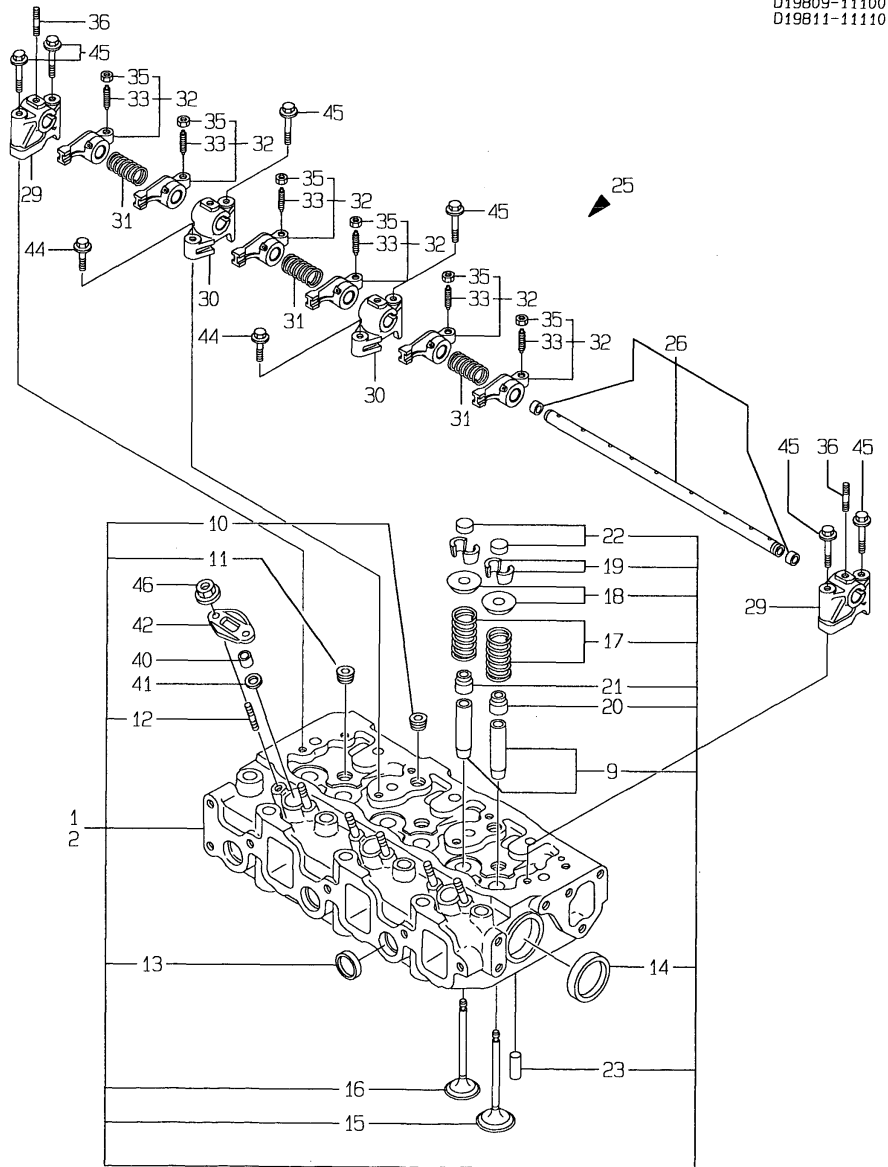
REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129150-03090	PIPE	1	1	1	1				
2	1	129150-03100	RETAINER	1	1	1	1				
13	1	119808-11290	BONNET COMPL.	1	1	1	1				
14	2	129150-03020	COVER, BREATHER	1	1	1	1				
15	2	129150-03070	BAFFLE, BREATHER	1	1	1	1				
16	2	129150-03080	PLATE, SHELTER	1	1	1	1				
17	2	119810-11300	BONNET	1	1	1	1				
19	2	119865-11310	GASKET, BONNET	1	1	1	1				
20	2	119807-11770	PLUG, BLIND	1	1	1	1				
21	2	198010-61080	STAY CMP, BONNET LOCK	1	1	1	1				
25	2	24341-000500	O-RING 1A S-50.0	1	1	1	1				
26	2	26106-080202	BOLT M 8X 20 PLATED	2	2	2	2				
27	1	124160-11360	KNOB	3	3	3	3				
28	1	24311-000120	O-RING 1A P 12.0	3	3	3	3				

Fig.6. CYLINDER HEAD

(A)=3TNC78-RN  
(B)=3TNC78-RNP  
(C)=3TNC80-RN

(D)=3TNC80-RNP  
(E)=  
(F)=

6. CYLINDER HEAD



REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719811-11700	HEAD ASSY, CYLINDER	1	1						
2	1	719812-11700	HEAD ASSY, CYLINDER								
9	3	124060-11800	GUIDE, VALVE	6	6	6	6				1
10	3	121850-11860	PLUG PT1/4	2	2	2	2				
11	3	23871-030000	PLUG PT3/8,SCREW	3	3	3	3				
12	3	26216-060302	STUD M 6X 30 PLATED	6	6	6	6				
13	3	27241-220000	PLUG 22	3	3	3	3				
14	3	27241-400000	PLUG 40	2	2	2	2				
15	2	119810-11100	VALVE, SUCTION	3	3	3	3				
16	2	119810-11110	VALVE, EXHAUST	3	3	3	3				
17	2	119810-11120	SPRING, VALVE	6	6	6	6				
18	2	104211-11180	RETAINER, SPRING	6	6	6	6				
19	2	101158-11190	COTTER	6	6	6	6				
20	2	124160-11340	SEAL, VALVE STEM(INT)	3	3	3	3				
21	2	124950-11340	SEAL, VALVE STEM(EXH)	3	3	3	3				
22	2	104211-11370	CAP, VALVE	6	6	6	6				
23	2	22351-060012	SPRING PIN 6X12	2	2	2	2				
25	1	119865-11200	SUPPORT ASSY, ROCKER	1	1	1	1				
26	2	119810-11240	SHAFT, ROCKER ARM	1	1	1	1				
29	2	129155-11260	SUPPORT, ROCKER ARM	2	2	2	2				
30	2	129155-11270	SUPPORT, ROCKER ARM	2	2	2	2				
31	2	129150-11280	SPRING	3	3	3	3				
32	2	719810-11650	ARM ASSY, ROCKER	6	6	6	6				
33	3	129150-11230	SCREW, VALVE	6	6	6	6				
35	3	129150-11750	NUT M8XP1.0	6	6	6	6				
36	2	26226-080182	STUD M 8X 18 PLATED	3	3	3	3				
40	1	119625-11870	PROTECTOR, NOZZLE	3	3	3	3				
41	1	119625-11880	SEAT, NOZZLE	3	3	3	3				
42	1	119625-11900	RETAINER	3	3	3	3				
44	1	26106-080252	BOLT M 8X 25 PLATED	2	2	2	2				
45	1	26106-080502	BOLT M 8X 50 PLATED	6	6	6	6				
46	1	26366-060002	NUT M 6	6	6	6	6				

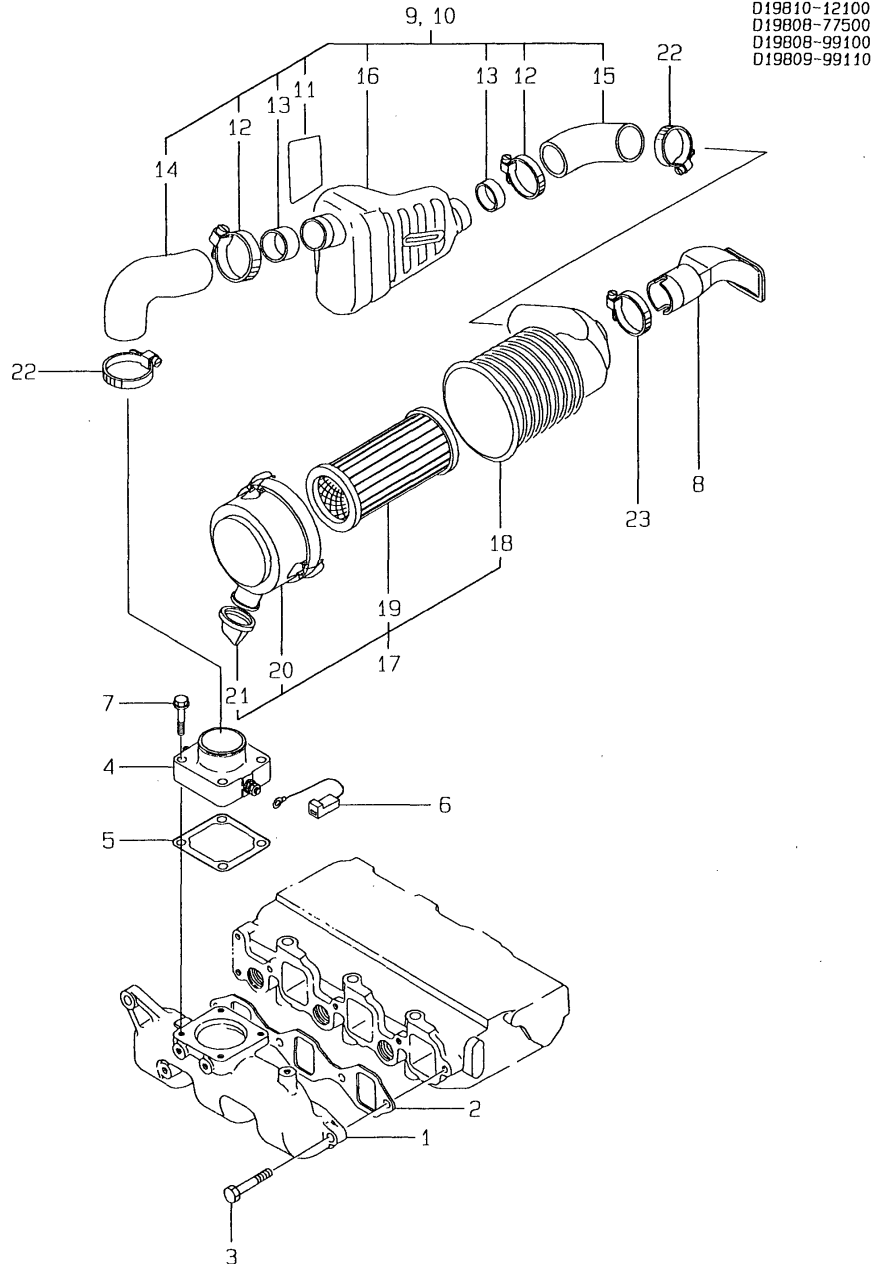
Remarks  
(1)REPAIR PART.

Fig.7. SUCTION MANIFOLD & AIR CLEANER

(A)=3TNC78-RN  
(B)=3TNC78-RNP  
(C)=3TNC80-RN

(D)=3TNC80-RNP  
(E)=  
(F)=

7.SUC.MANIFOLD & AIR CLEANER



REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119810-12100	MANIFOLD, SUCTION	1	1	1	1				
2	1	119810-12111	GASKET, MANIFOLD	1	1	1	1				
3	1	26106-080252	BOLT M 8X 25 PLATED	4	4	4	4				
4	1	129120-77501	HEATER, AIR	1	1	1	1				
5	1	129150-77511	GASKET, AIR HEATER	1	1	1	1				
6	1	119867-77530	WIRE	1	1	1	1				
7	1	26106-080352	BOLT M 8X 35 PLATED	4	4	4	4				
8	1	119808-12020	PIPE, EXTENSION	1	1	1	1				
9	1	119808-12031	PIPE ASSY, SUCTION	1	1	1	1				
10	1	119808-12039	PIPE ASSY, SUCTION	1	1	1	1				
11	2	119808-12090	PROTECTOR	1	1	1	1				
12	2	121855-12080	CLAMP	2	2	2	2				
13	2	119808-12070	PIPE	2	2	2	2				
14	2	119808-12060	PIPE (C), AIR INTAKE	1	1	1	1				
15	2	119808-12050	PIPE (B), AIR INTAKE	1	1	1	1				
16	2	119808-12041	PIPE (A), AIR INTAKE	1	1	1	1				
17	1	119808-12500	CLEANER ASSY, AIR	1	1	1	1				
18	2	119808-12510	BODY, AIR CLEANER	1	1	1	1				
19	2	119808-12520	ELEMENT, OUTER	1	1	1	1				
20	2	119808-12530	COVER	1	1	1	1				
21	2	119808-12540	VALVE, UNLOADER	1	1	1	1				
22	1	23000-070000	CLAMP 70	2	2	2	2				
23	1	23010-055000	CLAMP 55	1	1	1	1				

Fig.8. EXHAUST MANIFOLD & MUFFLER

8.EXH.MANIFOLD & MUFFLER

OCT10-G24400 8. EXHAUST MANIFOLD & MUFFLER

(A)=3TNC78-RN  
(B)=3TNC78-RNP  
(C)=3TNC80-RN

(D)=3TNC80-RNP  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119808-13100	EXH. MANIFOLD	1	1	1	1				
2	1	119810-13110	GASKET, EXH.MANIFOLD	1	1	1	1				
3	1	194990-22050	NUT W/WASHER 8	2	2	2	2				
4	1	26106-080352	BOLT M 8X 35 PLATED	2	2	2	2				
5	1	26106-080602	BOLT M 8X 60 PLATED	1	1	1	1				
6	1	26106-081002	BOLT M 8X100 PLATED	1	1	1	1				
7	1	26216-080602	STUD M 8X 60 PLATED	2	2	2	2				
8	1	119808-13500	SILENCER	1	1	1	1				
9	1	129107-13540	GASKET, SILENCER	1	1	1	1				
10	1	194990-22050	NUT W/WASHER 8	2	2	2	2				
11	1	22351-040012	SPRING PIN 4X12	2	2	2	2				
12	1	26216-080222	STUD M 8X 22 PLATED	2	2	2	2				

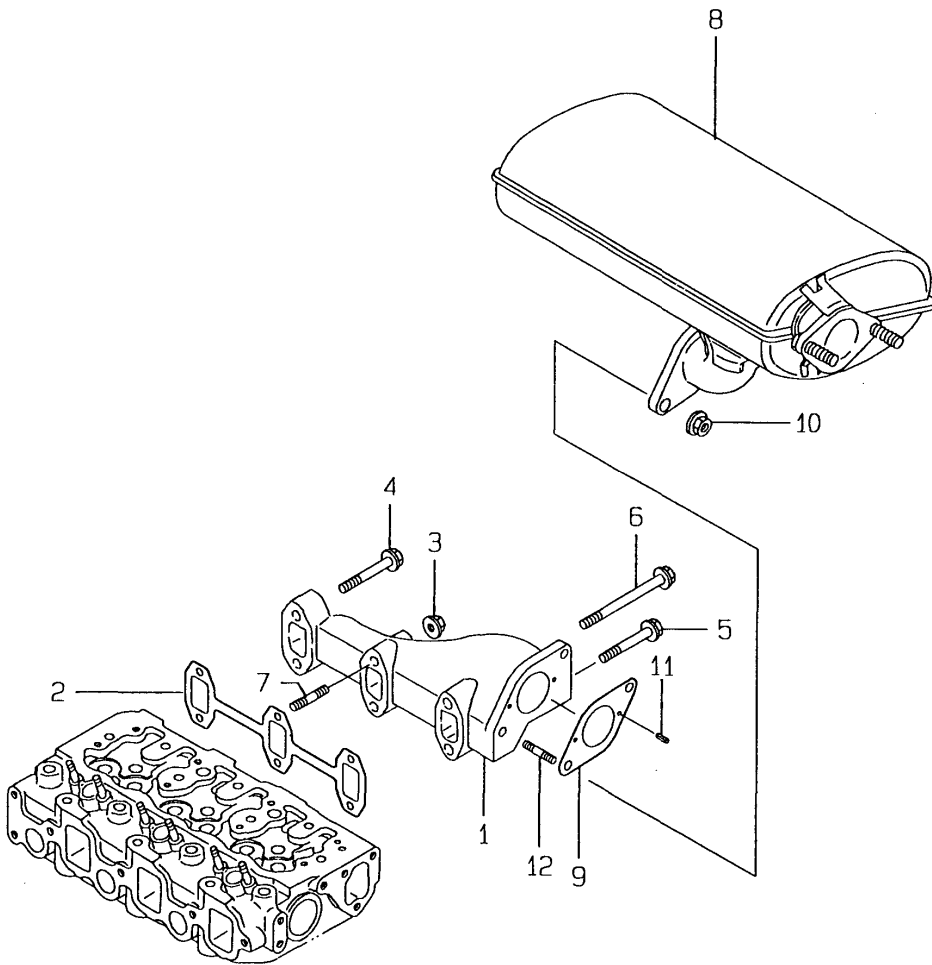


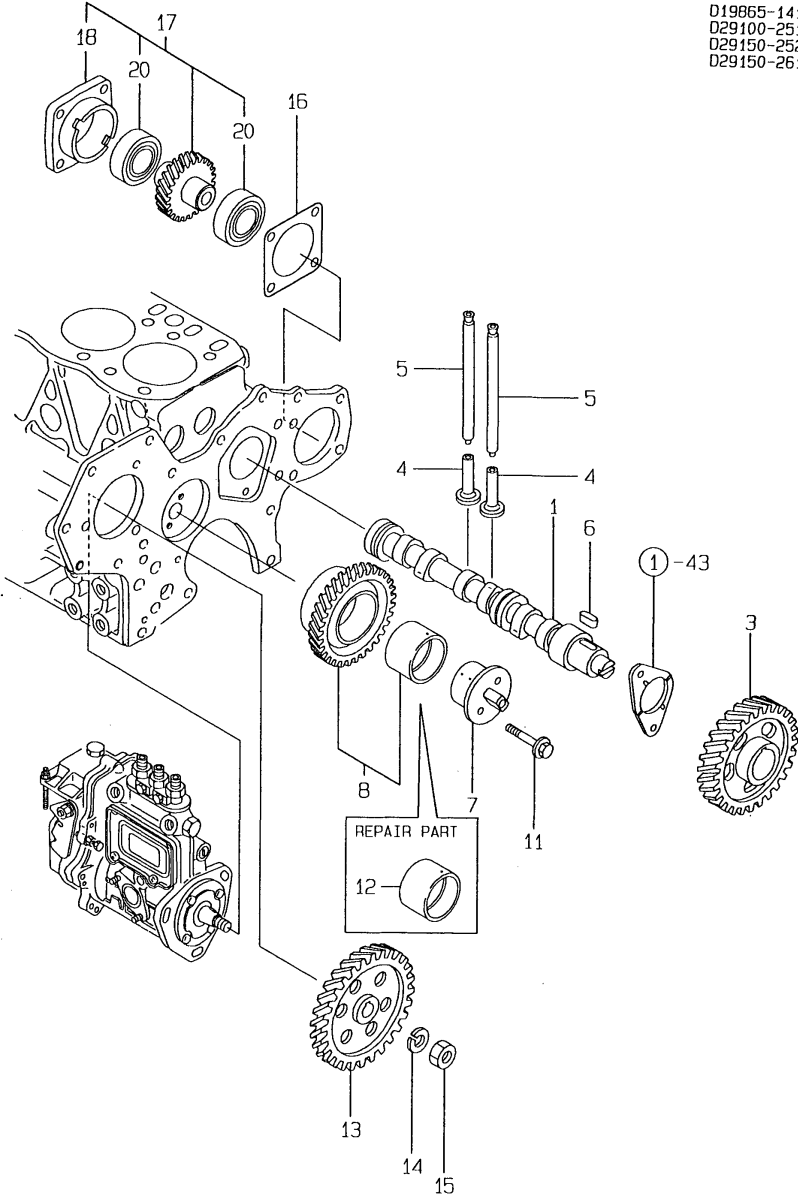
Fig.9. CAMSHAFT & DRIVING GEAR

(A)=3TNC78-RN  
(B)=3TNC78-RNP  
(C)=3TNC80-RN

(D)=3TNC80-RNP  
(E)=  
(F)=

9. CAMSHAFT & DRIVING GEAR

D19865-14101  
D29100-25101  
D29150-25200  
D29150-26100



REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119810-14011	CAMSHAFT	1	1	1	1				
3	1	129150-14101	GEAR, CAMSHAFT	1	1	1	1				
4	1	129155-14200	TAPPET	6	6	6	6				
5	1	119810-14400	ROD, PUSH	6	6	6	6				
6	1	22512-070140	KEY 7X 14	1	1	1	1				
7	1	129100-25061	SHAFT, IDLE GEAR	1	1	1	1				
8	1	129150-25101	GEAR W/BUSH	1	1	1	1				
11	1	26106-080452	BOLT M 8X 45 PLATED	2	2	2	2				
12	1	129150-25920	BUSH, IDLE GEAR	1	1	1	1				1
13	1	129150-25900	GEAR, FUEL INJ. PUMP	1	1	1	1				
14	1	22217-120000	SPRING WASHER 12	1	1	1	1				
15	1	26716-120002	NUT 12	1	1	1	1				
16	1	129150-01881	GASKET, COVER	1	1	1	1				
17	1	129150-26000	DRIVING SET, HO-PUMP	1	1	1	1				
18	2	129150-26050	BRACKET, HO-P	1	1	1	1				
20	2	24101-060064	BALL BEARING	2	2	2	2				

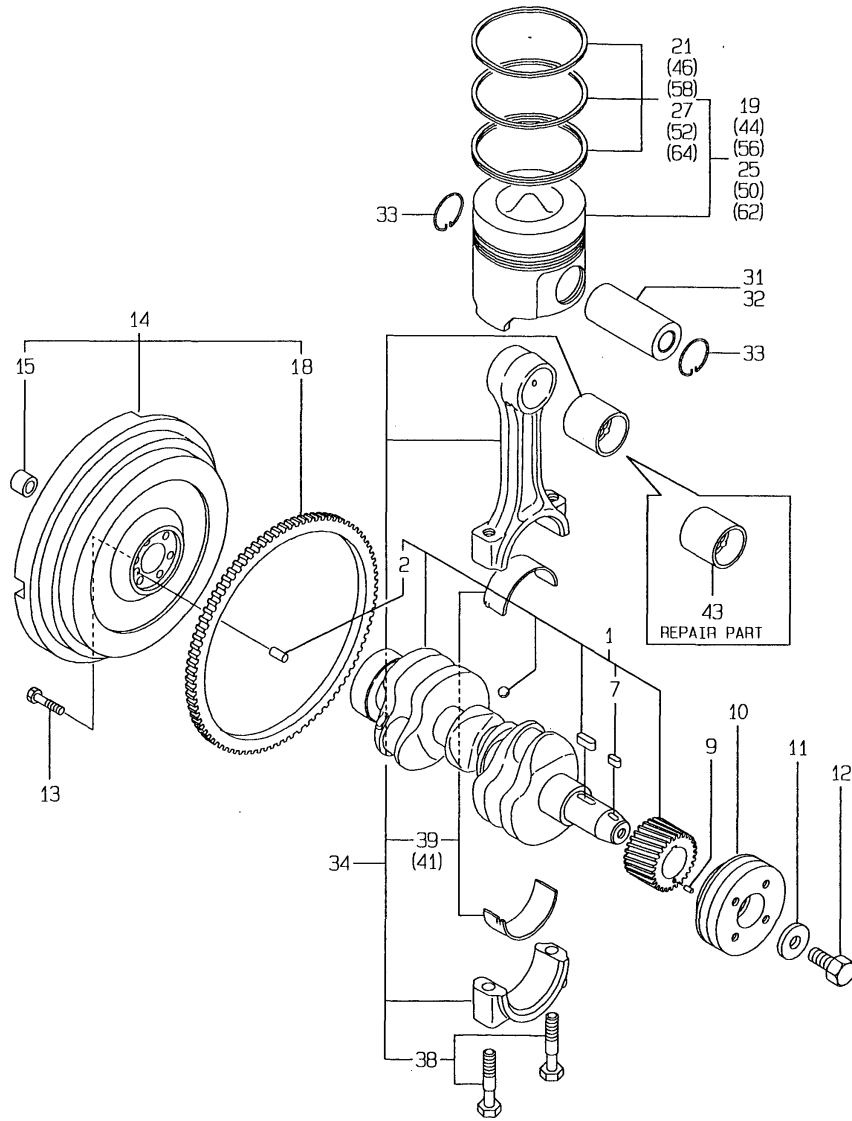
Remarks  
(1)REPAIR PART.

Fig.10. CRANKSHAFT & PISTON

(A)=3TNC78-RN  
(B)=3TNC78-RNP  
(C)=3TNC80-RN

(D)=3TNC80-RNP  
(E)=  
(F)=

10. CRANKSHAFT & PISTON



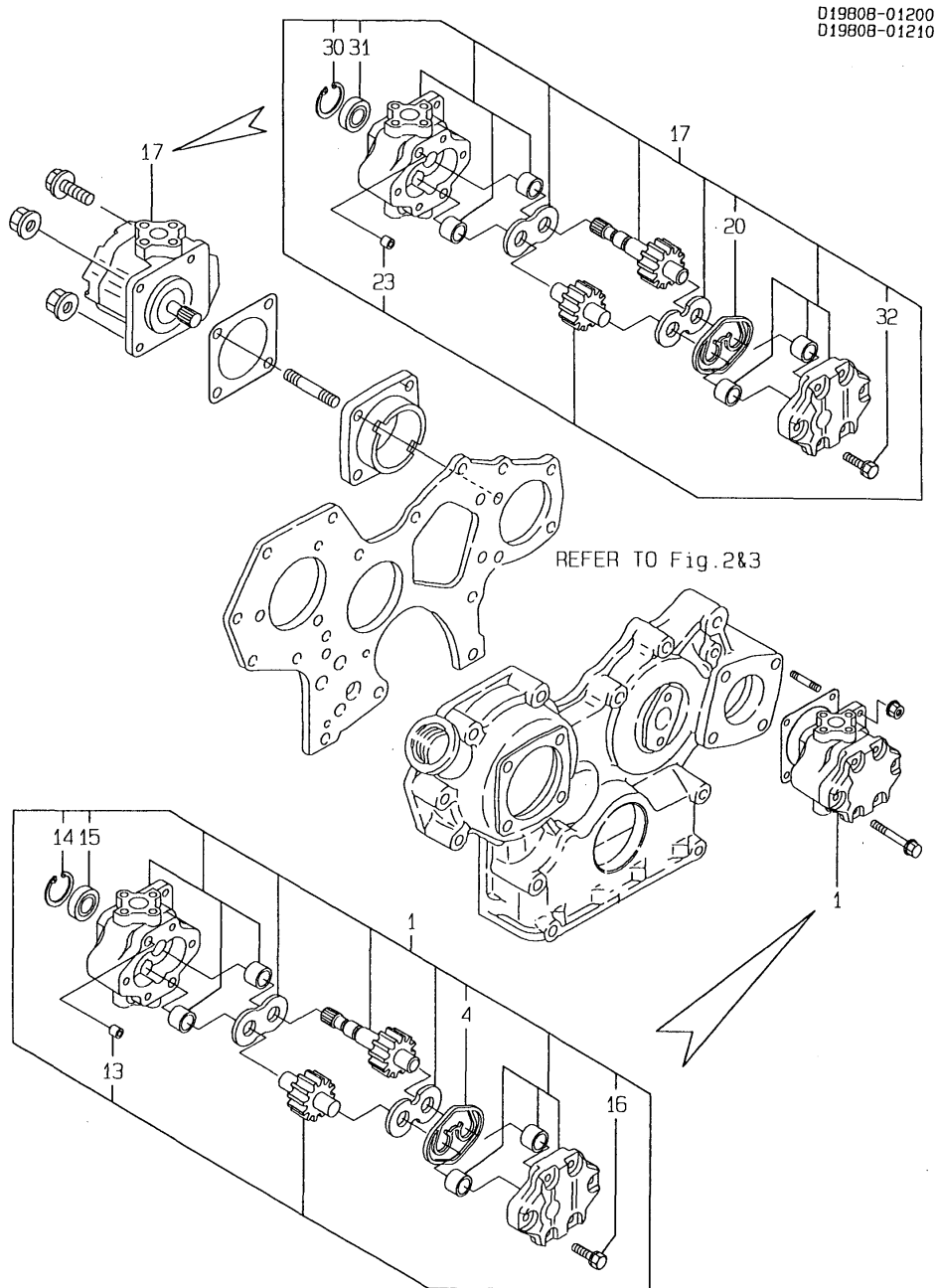
REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719811-21710	CRANKSHAFT ASSY	1	1	1	1				
2	2	129100-01580	PARALLEL PIN 8X16	1	1	1	1				
7	2	22512-070160	KEY 7X 16	1	1	1	1				
9	1	22351-040010	SPRING PIN 4X10	1	1	1	1				
10	1	119867-21650	V-PULLEY, CRANKSHAFT	1	1	1	1				
11	1	129795-21661	WASHER	1	1	1	1				
12	1	121850-21680	BOLT, V-PULLEY	1	1	1	1				
13	1	121111-21501	BOLT, FLYWHEEL	6	6	6	6				
14	1	119808-21580	FLYWHEEL W/RING GEAR	1	1	1	1				
15	2	124950-21230	BUSH	1	1	1	1				
18	2	119867-21600	GEAR,FRT.DIFF.DRIVE	1	1	1	1				
I	18-1	2	119867-21601	GEAR,FRT.DIFF.DRIVE	1	1	1	1			S
				(A=EZZZZZ)	(B=EZZZZZ)	(C=EZZZZZ)	(D=EZZZZZ)				
19	1	119811-22080	PISTON W/RINGS	3	3						
21	2	729100-22500	RING SET	3	3						
25	1	119812-22080	PISTON W/RINGS			3	3				
27	2	729150-22500	RING SET			3	3				
31	1	104200-22300	PIN, PISTON	3	3						
32	1	114650-22300	PIN, PISTON D=23			3	3				
33	1	129792-22400	CIRCLIP 23	6	6	6	6				
34	1	719810-23100	ROD ASSY, CONNECTING	3	3	3	3				
38	2	119810-23200	BOLT, CONNECTING ROD	6	6	6	6				
39	2	119810-23600	BEARING, CRANKPIN	3	3	3	3				
41	1	119810-23610	BEARING,PIN U.S=0.25	3	3	3	3				1
43	1	119810-23910	BUSH, PISTON PIN	3	3	3	3				2
44	1	719811-22900	PISTON W/RING OS=.25	3	3						3
46	2	729555-22950	RING SET O.S=0.25	3	3						3
50	1	719812-22900	PISTON W/RING OS=.25			3	3				3
52	2	729812-22950	RING SET O.S=0.25			3	3				3
56	1	119811-22920	PISTON W/RING OS=0.5	3	3						4
58	2	129100-22970	RING SET O.S=0.5	3	3						4
62	1	119812-22920	PISTON W/RING OS=0.5			3	3				4
64	2	119812-22970	RING SET O.S=0.50			3	3				4

Remarks  
 (1)UNDER-SIZED(U.S=0.25)PART.  
 (2)REPAIR PART.  
 (3)OVER-SIZED(O.S=0.25)PART.  
 (4)OVER-SIZED(O.S=0.25)PART.



Fig.11. HYDRAULIC PUMP

11.HYDRAULIC PUMP



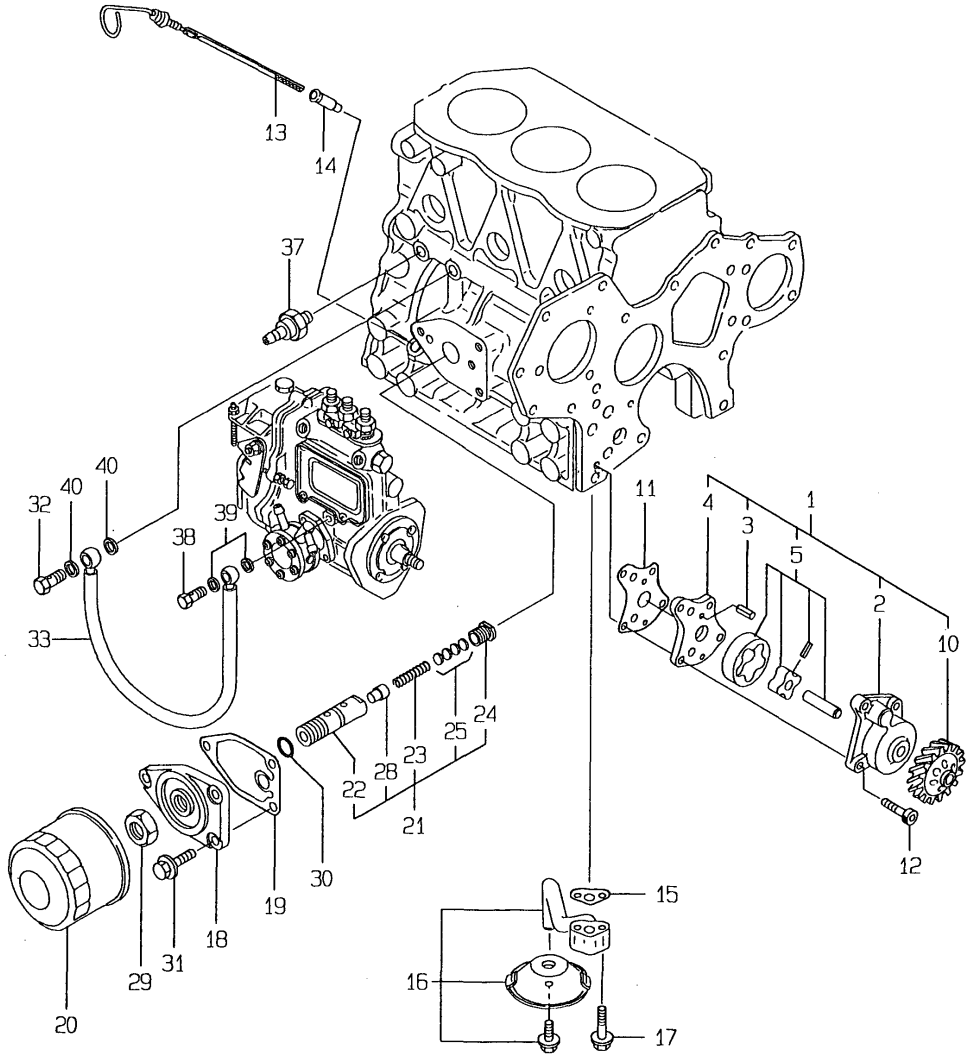
(A)=3TNC78-RN  
(B)=3TNC78-RNP  
(C)=3TNC80-RN

(D)=3TNC80-RNP  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198011-41110	PUMP PW1-C-4C, HYDRO.		1		1				
4	2	178070-10400	RING		1		1				
13	2	194521-41570	PIN 11X7		2		2				
14	2	22252-000320	CIRCLIP 32		1		1				
15	2	24421-153207	SEAL TC15 32 07, OIL		1		1				
16	2	26016-080352	BOLT M 8X 35		4		4				
17	1	198010-41110	PUMP PW1-C-7A, HYDRO.	1	1	1	1				
20	2	178070-10400	RING	1	1	1	1				
23	2	194521-41570	PIN 11X7	2	2	2	2				
30	2	22252-000320	CIRCLIP 32	1	1	1	1				
31	2	24421-153207	SEAL TC15 32 07, OIL	1	1	1	1				
32	2	26016-080352	BOLT M 8X 35	4	4	4	4				

Fig.12. LUB. OIL SYSTEM

12.LUB.OIL SYSTEM



(A)=3TNC78-RN  
(B)=3TNC78-RNP  
(C)=3TNC80-RN

(D)=3TNC80-RNP  
(E)=  
(F)=

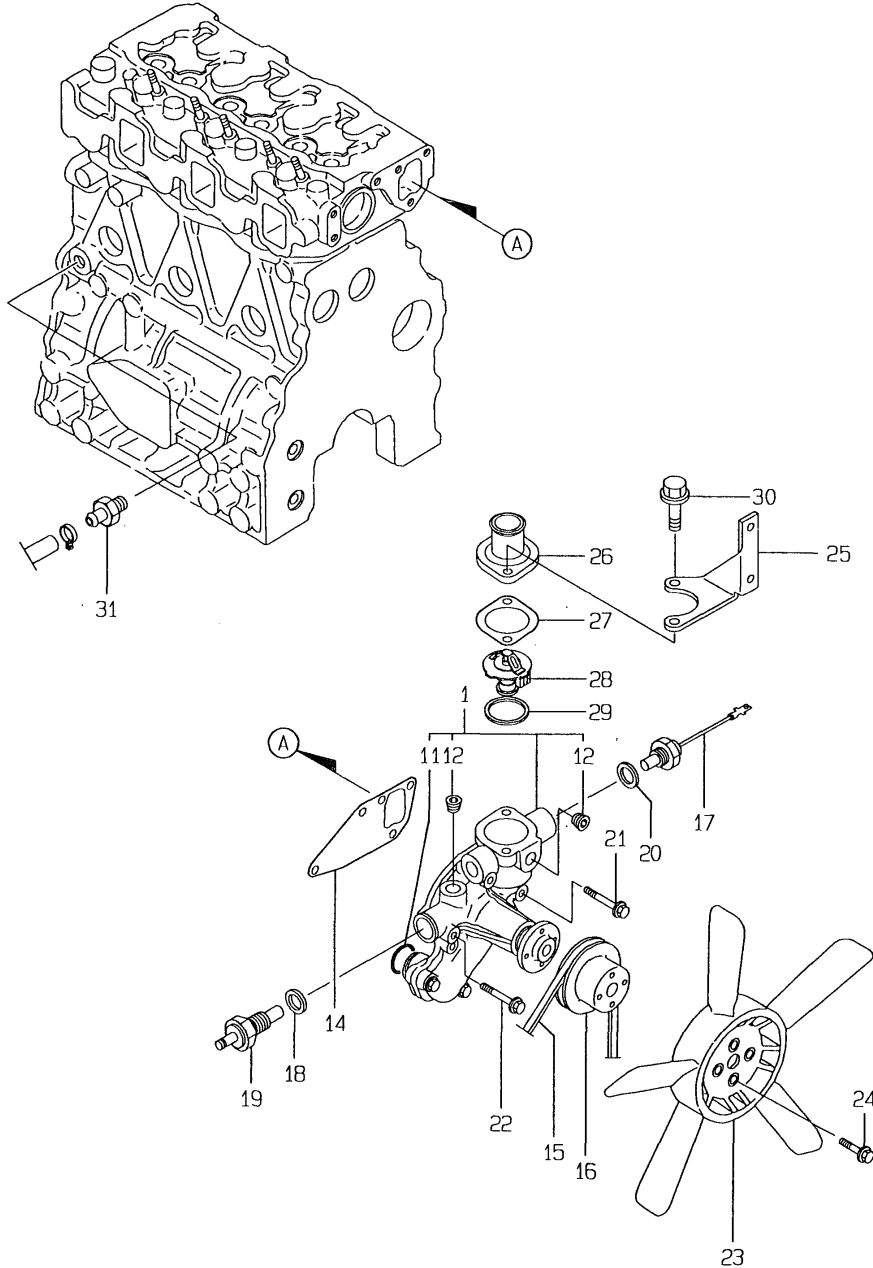
REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119810-32000	PUMP ASSY, LUB. OIL	1	1	1	1				
2	2	119810-32010	BODY, L.O. PUMP	1	1	1	1				
3	2	121450-32060	PIN 4X8	2	2	2	2				
4	2	119810-32080	COVER, L.O. PUMP	1	1	1	1				
5	2	119810-32150	ROTER ASSY	1	1	1	1				
10	2	129150-32201	GEAR, LUB. OIL PUMP	1	1	1	1				
11	1	129150-32020	GASKET, L.O. PUMP	1	1	1	1				
12	1	26450-060252	BOLT M 6X 25	4	4	4	4				
13	1	119867-34801	DIPSTIC	1	1	1	1				
14	1	129150-34810	GUIDE, DIPSTICK	1	1	1	1				
15	1	129150-35041	GASKET, PIPE	1	1	1	1				
16	1	119867-35090	PIPE ASSY, OIL INLET	1	1	1	1				
17	1	26106-080352	BOLT M 8X 35 PLATED	2	2	2	2				
18	1	129150-35101	BRACKET, STRAINER	1	1	1	1				
19	1	129150-35111	GASKET, BRACKET	1	1	1	1				
20	1	119305-35150	FILTER, LUB. OIL	1	1	1	1				
21	1	119865-35300	VALVE ASSY, OIL PRESS	1	1	1	1				
22	2	119865-35310	BODY	1	1	1	1				
23	2	119865-35320	SPRING	1	1	1	1				
24	2	119865-35330	RETAINER	1	1	1	1				
25	2	129150-35340	SHIM SET	1	1	1	1				
28	2	119865-35350	VALVE, OIL PRESS	1	1	1	1				
29	1	129150-35350	NUT	1	1	1	1				
30	1	24311-000160	O-RING 1A P-16.0	1	1	1	1				
31	1	26106-080202	BOLT M 8X 20 PLATED	3	3	3	3				
32	1	124160-39140	BOLT 10, PIPE JOINT	1	1	1	1				
33	1	119810-39200	PIPE ASSY, LUB. OIL	1	1	1	1				
37	1	124160-39450	SWITCH, OIL PRESSURE	1	1	1	1				
38	1	124550-59820	BOLT 8, PIPE JOINT	1	1	1	1				
39	1	23414-080000	GASKET 8, ROUND	2	2	2	2				
40	1	23414-100000	GASKET 10, ROUND	2	2	2	2				

Fig.13. COOLING WATER SYSTEM

(A)=3TNC78-RN  
(B)=3TNC78-RNP  
(C)=3TNC80-RN

(D)=3TNC80-RNP  
(E)=  
(F)=

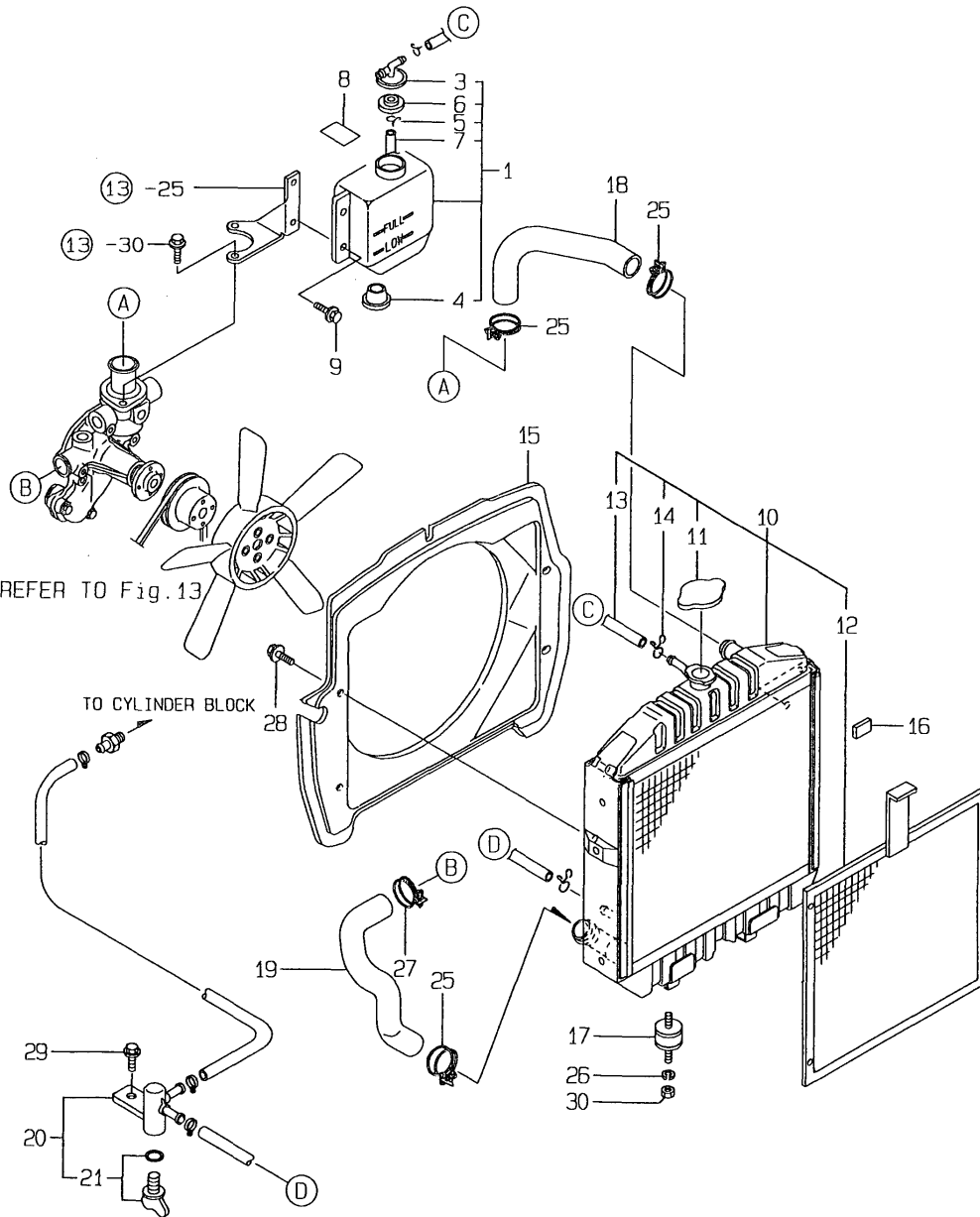
13.COOLING WATER SYSTEM



REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119810-42001	PUMP ASSY, WATER	1	1	1	1				
11	2	129150-42320	O-RING	1	1	1	1				
12	2	23871-030000	PLUG PT3/8,SCREW	2	2	2	2				
14	1	129150-42020	GASKET, PUMP	1	1	1	1				
15	1	121492-42290	V-BELT A38	1	1	1	1				
16	1	129550-42350	V-PULLEY(D=120)	1	1	1	1				
17	1	129107-44900	SENSOR,HOT WATER	1	1	1	1				
18	1	124465-44950	GASKET 16	1	1	1	1				
19	1	124250-49351	THERMOMETER	1	1	1	1				
20	1	129150-49360	GASKET 10	1	1	1	1				
21	1	26106-080352	BOLT M 8X 35 PLATED	1	1	1	1				
22	1	26106-080552	BOLT M 8X 55 PLATED	3	3	3	3				
23	1	129155-44740	FAN D320	1	1	1	1				
24	1	26014-060162	BOLT M 6X 16	4	4	4	4				
25	1	119808-44600	BRACKET, SUB-TANK	1	1	1	1				
26	1	129350-49530	COVER, THERMOSTAT	1	1	1	1				
27	1	129795-49551	GASKET, COVER	1	1	1	1				
28	1	129155-49800	THERMOSTAT	1	1	1	1				
29	1	129150-49811	GASKET, (NON-ASB.)	1	1	1	1				
30	1	26106-080252	BOLT M 8X 25 PLATED	2	2	2	2				
31	1	121550-49111	JOINT PT1/4	1	1	1	1				

Fig.14. RADIATOR

14. RADIATOR



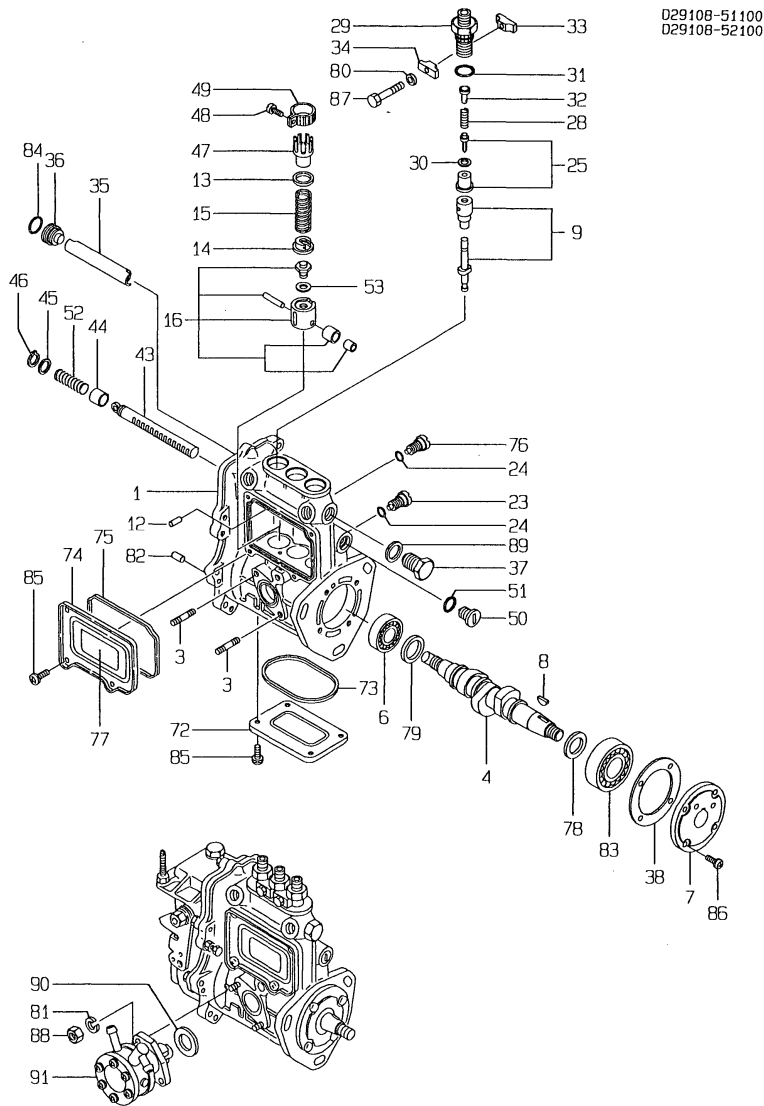
(A)=3TNC78-RN  
(B)=3TNC78-RNP  
(C)=3TNC80-RN

(D)=3TNC80-RNP  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	121468-44510	SUB-TANK ASSY	1	1	1	1				
3	2	121450-44531	CAP	1	1	1	1				
4	2	121468-44540	PLUG, SUB-TANK	1	1	1	1				
5	2	124450-44560	CLAMP	1	1	1	1				
6	2	121470-44581	GASKET	1	1	1	1				
7	2	23065-070130	PIPE 7X 130	1	1	1	1				
8	1	121470-44540	LABEL, SUB-TANK	1	1	1	1				
9	1	26106-060102	BOLT 6X 10 PLATED	2	2	2	2				
10	1	119808-44501	RADIATOR	1	1	1	1				
11	2	129107-44590	CAP, RADIATOR	1	1	1	1				
12	2	119808-44570	PROTECTOR,FRONT	1	1	1	1				
13	2	124722-49160	HOSE(B), WATER DRAIN	1	1	1	1				
14	2	121250-44590	CLAMP	2	2	2	2				
15	1	119808-44560	BRACKET, SUB. TANK	1	1	1	1				
16	1	121454-44590	PAD	1	1	1	1				
17	1	129550-44660	ABSORBER, SHOCK	2	2	2	2				
18	1	119808-49010	PIPE (A), C.WATER	1	1	1	1				
19	1	119867-49020	PIPE B,COOLING WATER	1	1	1	1				
20	1	129150-49100	COCK ASSY, 3-WAY	1	1	1	1				
21	2	129150-49080	COCK, DRAIN	1	1	1	1				
25	1	121267-49500	CLAMP 38	3	3	3	3				
26	1	22212-100000	SPRING WASHER 10	2	2	2	2				
27	1	23000-041000	CLAMP 41	1	1	1	1				
28	1	26106-060082	BOLT M 6X 8 PLATED	4	4	4	4				
29	1	26106-080252	BOLT M 8X 25 PLATED	1	1	1	1				
30	1	26716-100002	NUT 10	2	2	2	2				

# Fig.15. FUEL INJECTION PUMP

## 15.FUEL INJECTION PUMP



**Remarks**

- (1) FIG.16(GOVERNOR) IS INCORPORATED IN FUEL INJECTION PUMP ASSY(REF. NO.1).
- (2) FIG.17(GOVERNOR) IS INCORPORATED IN FUEL INJECTION PUMP ASSY(REF. NO.2).

(A)=3TNC78-RN  
(B)=3TNC78-RNP  
(C)=3TNC80-RN

(D)=3TNC80-RNP  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q.TY						I	R	
				(A)	(B)	(C)	(D)	(E)	(F)			
I	1A	1	719808-51300	PUMP W/GOV. & F.PUMP	1	1					1	
I	1B	1	719809-51310	PUMP W/GOV. & F.PUMP				1	1			2
	3	2	129155-51020	STUD, FEED PUMP	2	2	2	2				
	4	2	119810-51040	CAMSHAFT	1	1	1	1				
	6	2	129155-51050	BALL BEARING, THRUST	1	1	1	1				
	7	2	129155-51060	CAM SHAFT SUPPORT	1	1	1	1				
	8	2	122710-51090	KEY	1	1	1	1				
	9	2	129108-51100	PLUNGER W/BARREL	3	3	3	3				
	12	2	129155-51140	PIN, BARREL LOCKING	3	3	3	3				
	13	2	174307-51170	RETAINER A	3	3	3	3				
	14	2	129155-51180	SPRING SHOE, PLUNGER	3	3	3	3				
	15	2	124950-51190	SPRING, PLUNGER	3	3	3	3				
	16	2	129155-51200	TAPPET ASSY	3	3	3	3				
	23	2	129155-51270	LOCKING, TAPPET	3	3	3	3				
	24	2	129155-51280	O-RING S6	3	3	3	3				
	25	2	129100-51300	VALVE W/SEAT, DELIV.	3	3	3	3				
	28	2	129155-51320	SPRING, DELIV. VALVE	3	3	3	3				
	29	2	129155-51340	GUARD, DELIVERY VALVE	3	3	3	3				
	30	2	124550-51350	GASKET, DELIVERY	3	3	3	3				
	31	2	124550-51370	O-RING, DELIVERY	3	3	3	3				
	32	2	129155-51370	STOPPER, VALVE	3	3	3	3				
	33	2	129155-51380	LOCKING (A)	2	2	2	2				
	34	2	129155-51390	LOCKING (B)	2	2	2	2				
	35	2	129155-51400	DEFLECTOR	1	1	1	1				
	36	2	129155-51410	CHECK BOLT, DEFLECTOR	1	1	1	1				
	37	2	129155-51420	PLUG (M16)	1	1	1	1				
	38	2	129155-51450	SHIM SET, ADJUSTING	1	1	1	1				
	43	2	129155-51500	RACK, CONTROL	1	1	1	1				
	44	2	129155-51521	BUSH, RACK	1	1	1	1				
	45	2	129155-51530	SPACER, AUX. SPRING	1	1	1	1				
	46	2	129155-51540	CIRCLIP	1	1	1	1				
	47	2	129155-51550	PINION, CONTROL	3	3	3	3				
	48	2	122117-51560	SCREW, PINION	3	3	3	3				
	49	2	174307-51560	PINION	3	3	3	3				
	50	2	129155-51570	PLUG (M12)	1	1	1	1				
	51	2	129155-51580	O-RING	1	1	1	1				
	52	2	129155-51591	SPRING, RACK	1	1	1	1				
	53	2	129155-51600	SHIM PACK	3	3	3	3				
	72	2	129155-51700	COVER, LOWER	1	1	1	1				
	73	2	129155-51710	GASKET, LOWER COVER	1	1	1	1				
	74	2	129155-51750	COVER, SIDE	1	1	1	1				
	75	2	129155-51760	GASKET, SIDE COVER	1	1	1	1				
	76	2	129155-51790	LOCKING, RACK	1	1	1	1				
	77	2	129156-51910	LABEL, CAUTION	1	1	1	1				
	78	2	129155-51930	SPACER T=3.25	1	1	1	1				
	79	2	129155-51940	SPACER T=1.5	1	1	1	1				
	80	2	22217-050000	SPRING WASHER 5	2	2	2	2				
	81	2	22217-060000	SPRING WASHER 6	2	2	2	2				
	82	2	22351-050010	SPRING PIN 5X10	2	2	2	2				
	83	2	24101-063034	BALL BEARING	1	1	1	1				
	84	2	24341-000160	O-RING 1A S-16.0	1	1	1	1				

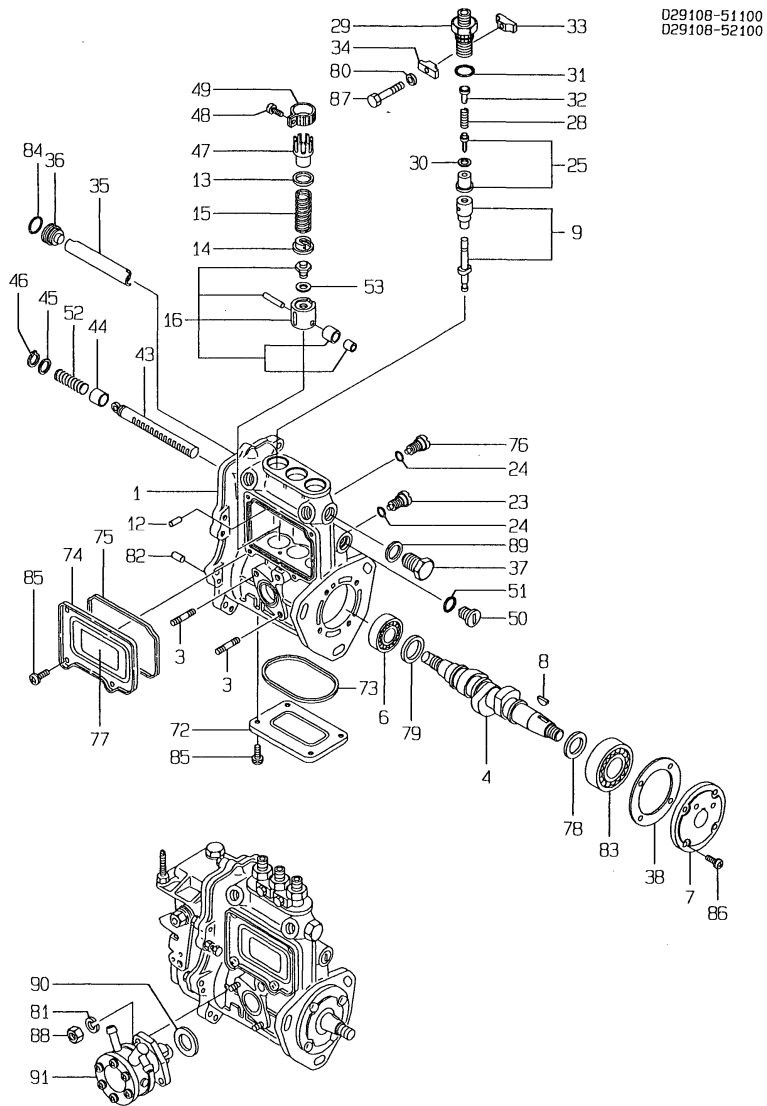
N:Old  $\xrightarrow{\text{Yes}}$  New, Q:Old  $\xrightarrow{\text{No}}$  New, R:Old  $\xrightarrow{\text{Yes}}$  New, S:Old  $\xrightarrow{\text{No}}$  New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change

++ CONTINUE ++

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Fig.15. FUEL INJECTION PUMP

15.FUEL INJECTION PUMP



OCT10-G24400 15. FUEL INJECTION PUMP

(A)=3TNC78-RN  
(B)=3TNC78-RNP  
(C)=3TNC80-RN

(D)=3TNC80-RNP  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
85	2	26022-050102	SCREW M 5X 10	8	8	8	8				
86	2	26022-060162	SCREW M 6X 16	4	4	4	4				
87	2	26116-050302	BOLT M 5X 30 PLATED	2	2	2	2				
88	2	26716-060002	NUT 6	2	2	2	2				
89	2	43400-500490	SEAL WASHER 16S	1	1	1	1				
90	2	129155-52050	GASKET	1	1	1	1				
91	2	129108-52100	PUMP ASSY, FUEL FEED	1	1	1	1				

Remarks

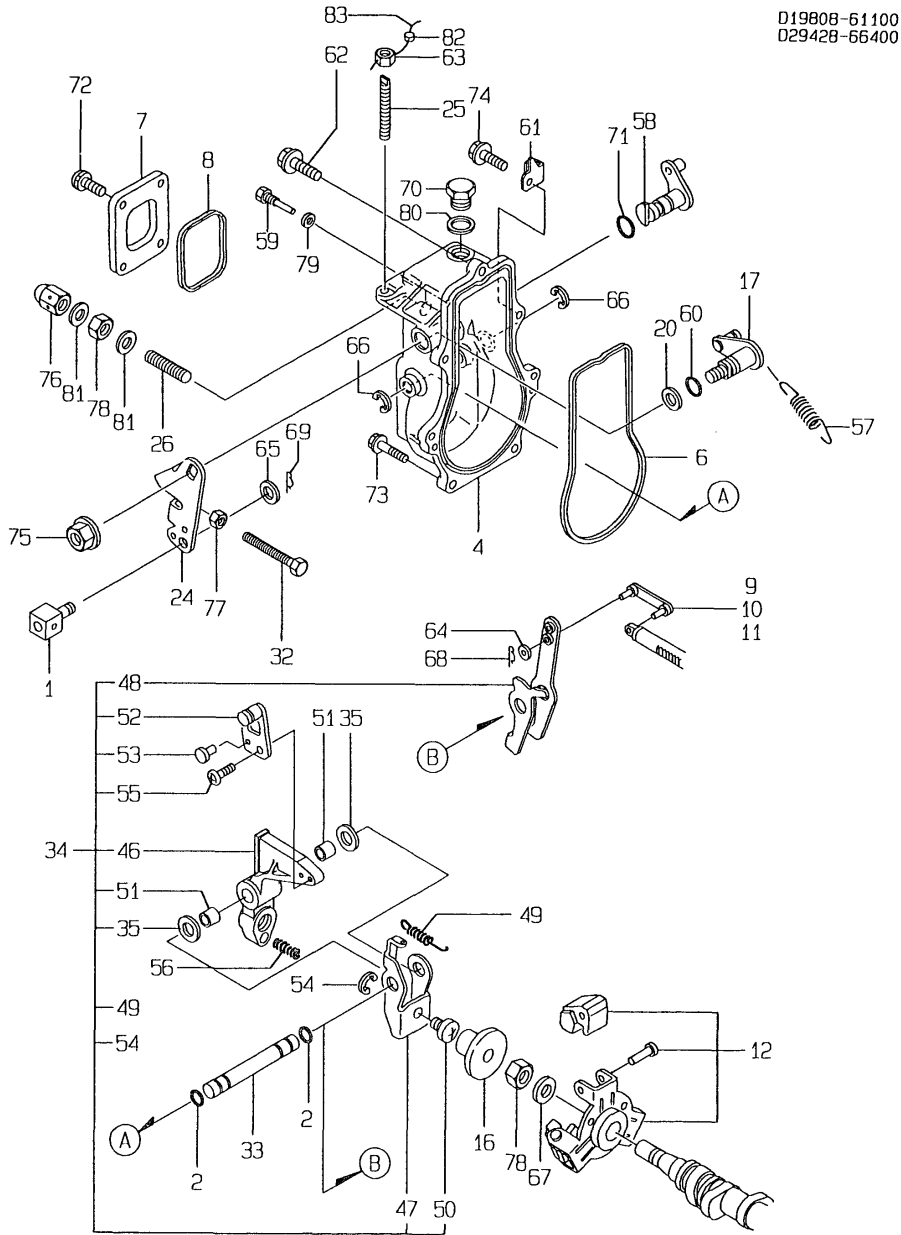
- (1)FIG.16(GOVERNOR) IS INCORPORATED IN FUEL INJECTION PUMP ASSY(REF. NO.1).
- (2)FIG.17(GOVERNOR) IS INCORPORATED IN FUEL INJECTION PUMP ASSY(REF. NO.2).

Fig.16. GOVERNOR(FOR 3TNC78)

(A)=3TNC78-RN  
(B)=3TNC78-RNP  
(C)=3TNC80-RN

(D)=3TNC80-RNP  
(E)=  
(F)=

16. GOVERNOR (FOR 3TNC78)



REF.	LEV.	PARTS NO.	DESCRIPTION	(A)	(B)	(C)	(D)	(E)	(F)	QTY	I	R
1	1	194150-01370	ADJUSTER	1	1							
2	1	129155-51280	O-RING S6	2	2							
4	1	119843-61011	CASE, GOVERNOR	1	1							
6	1	129155-61050	GASKET, GOV. CASE	1	1							
7	1	129155-61060	COVER, GOVERNOR CASE	1	1							
8	1	129155-61070	GASKET, CASE COVER	1	1							
9	1	129155-61120	LINK L=30(MARK 0	1	1							
10	1	129155-61130	LINK L=31(MARK 1	1	1							
11	1	129155-61140	LINK L=30.5(MARK 05)	1	1							
12	1	129155-61201	WEIGHT ASSY, GOV.	1	1							
16	1	129155-61341	SLEEVE(L=25.5)	1	1							
17	1	129100-61400	SHAFT ASSY, CONTROL	1	1							
20	1	129155-61430	SPACER, SHAFT	1	1							
24	1	129100-61440	LEVER, CONTROL	1	1							
25	1	129155-61450	BOLT, REVOL. LIMIT	1	1							
26	1	129428-61450	TORQUE SPRING ASSY	1	1							
32	1	129155-61460	BOLT, IDLE LIMIT	1	1							
33	1	129155-61490	SHAFT, GOV. LEVER	1	1							
34	1	119843-61500	LEVER ASSY, GOVERNOR	1	1							
35	2	174307-51700	SHIM SET	2	2							
46	2	129100-61510	LEVER, TENSION	1	1							
47	2	119843-61520	LEVER A,GOVERNOR	1	1							
48	2	119843-61530	LEVER B,GOVERNOR	1	1							
49	2	119843-61540	SPRING	1	1							
50	2	129155-61540	SHIFTER	1	1							
51	2	119843-61550	BUSH	2	2							
52	2	171353-61910	HOOK, TENSION LEVER	1	1							
53	2	129100-61920	PIN	1	1							
54	2	22272-000040	CIRCLIP E- 4	1	1							
55	2	26022-060122	SCREW M 6X 12	1	1							
56	1	129100-61650	SPRING, FUEL CONTROL	1	1							
57	1	171353-61710	SPRING, GOVERNOR	1	1							
58	1	129129-61801	LEVER ASSY, STOP	1	1							
59	1	129155-61810	PIN, STOP LEVER	1	1							
60	1	129155-61830	O-RING S10	1	1							
61	1	129116-61890	SUPPORT, STOP LEVER	1	1							
62	1	129155-61950	BOLT, WASHER BASED	1	1							
63	1	124550-66370	LOCK NUT M 6	1	1							
64	1	22117-040000	WASHER 4	1	1							
65	1	22137-080000	WASHER 8, POLISHED	1	1							
66	1	22272-000060	CIRCLIP E- 6	2	2							
67	1	22287-120000	WASHER 12	1	1							
68	1	22372-040000	SNAP PIN 4	2	2							
69	1	22417-160180	COTTER PIN 1.6X18	1	1							
70	1	23887-100002	PLUG 10	1	1							
71	1	24311-240100	O-RING 1A P-10A	1	1							
72	1	26022-050102	SCREW M 5X 10	4	4							
73	1	26106-060202	BOLT M 6X 20 PLATED	5	5							
74	1	26106-060252	BOLT M 6X 25 PLATED	1	1							
75	1	26366-080002	NUT M 8	1	1							
76	1	26687-120002	CAP NUT M12	1	1							

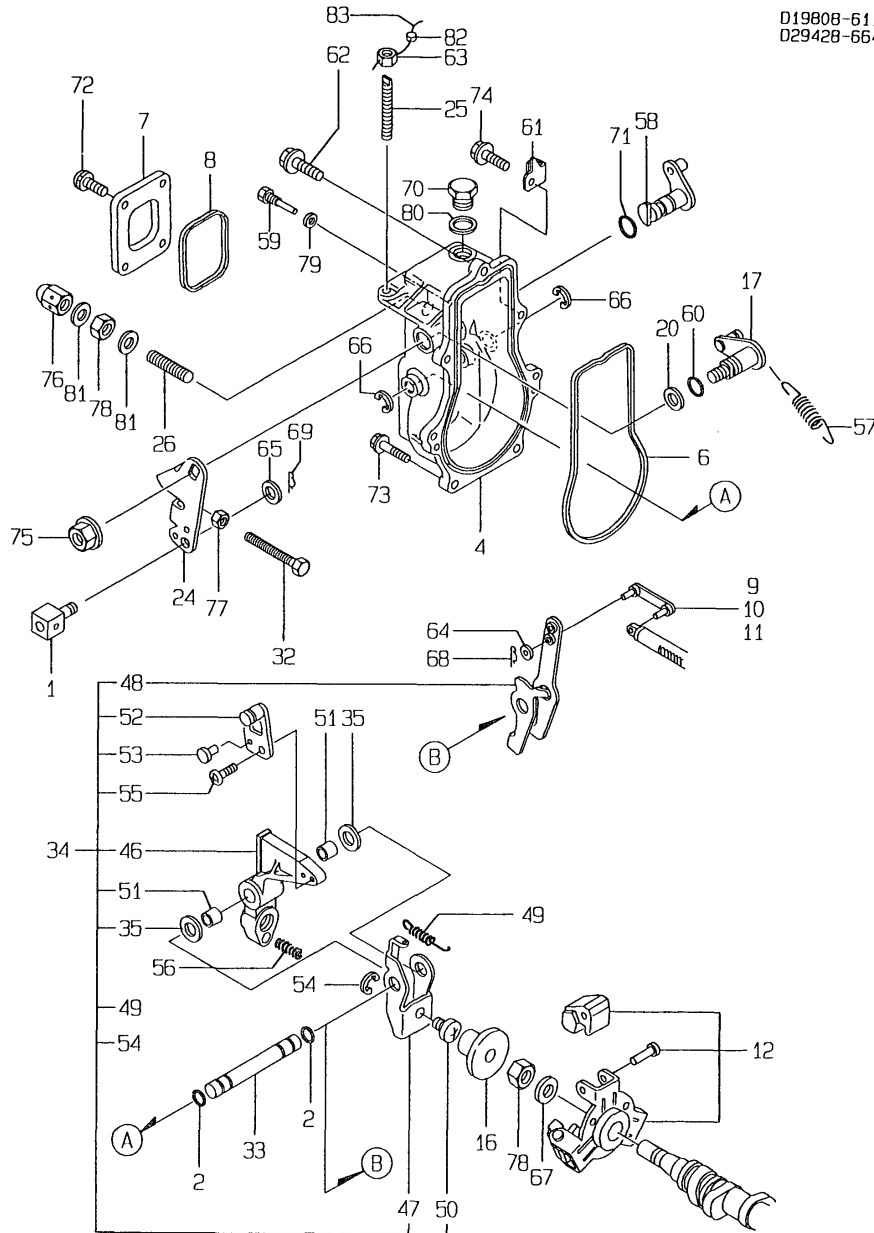
Fig.16. GOVERNOR(FOR 3TNC78)

(A)=3TNC78-RN  
(B)=3TNC78-RNP  
(C)=3TNC80-RN

(D)=3TNC80-RNP  
(E)=  
(F)=

16. GOVERNOR (FOR 3TNC78)

D19808-61100  
D29428-66400



REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
77	1	26756-060002	LOCK NUT 6	1	1						
78	1	26776-120002	LOCK NUT M12 PLATED	2	2						
79	1	43400-500390	SEAL WASHER 6S	1	1						
80	1	43400-500430	SEAL WASHER 10S	1	1						
81	1	43400-500450	SEAL WASHER 12S	2	2						
82	1	135210-61090	LEAD	1	1						
83	1	22451-060000	WIRE 0.6	1	1						

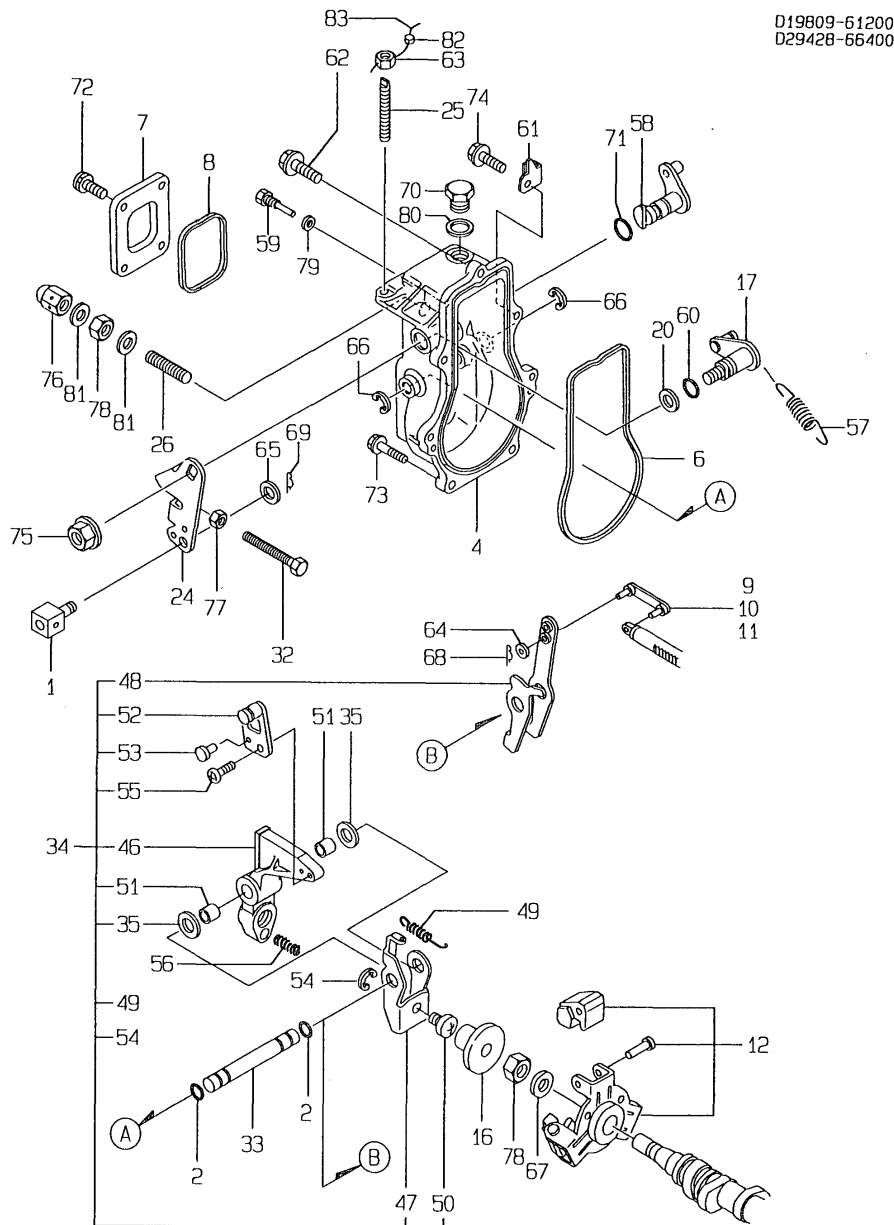


Fig.17. GOVERNOR(FOR 3TNC80)

(A)=3TNC78-RN  
(B)=3TNC78-RNP  
(C)=3TNC80-RN

(D)=3TNC80-RNP  
(E)=  
(F)=

17. GOVERNOR (FOR 3TNC80)



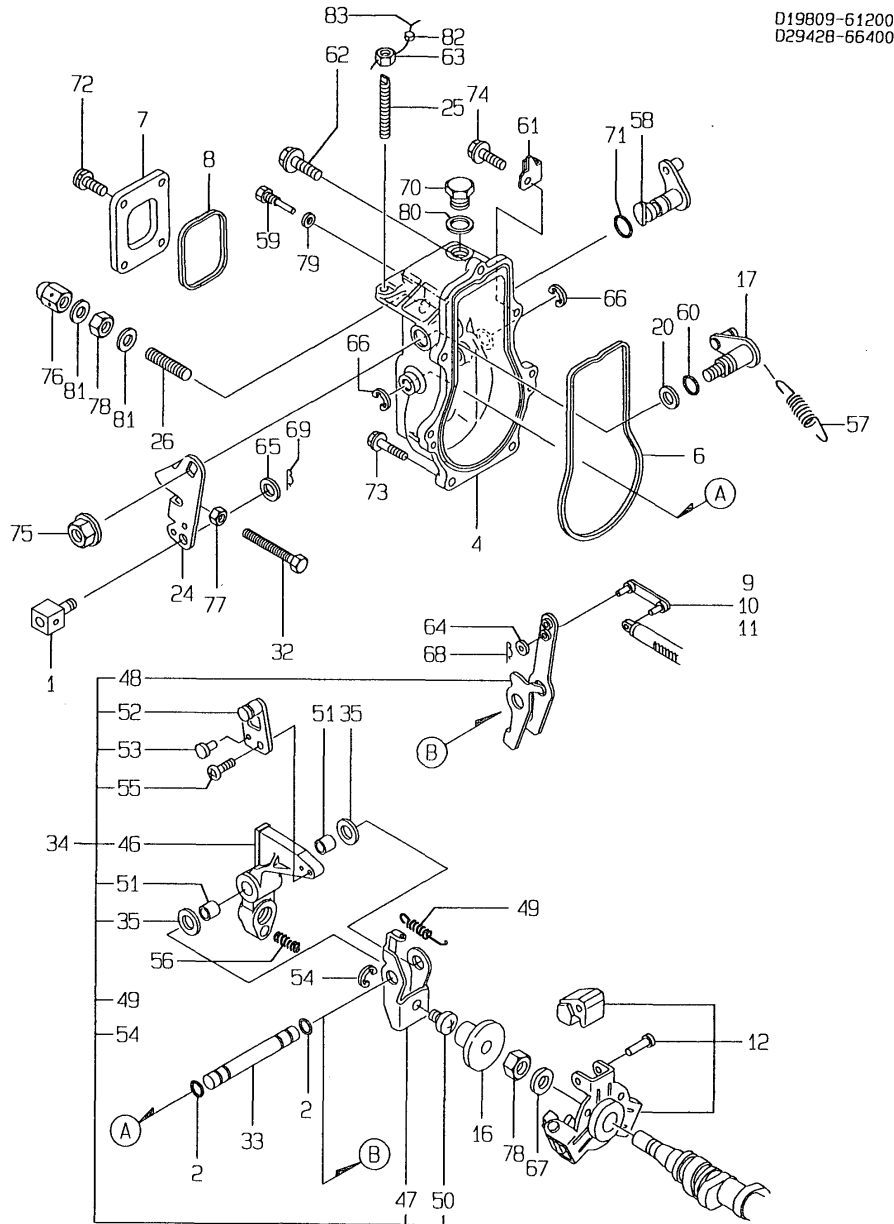
REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194150-01370	ADJUSTER			1	1				
2	1	129155-51280	O-RING S6			2	2				
4	1	119843-61011	CASE, GOVERNOR			1	1				
6	1	129155-61050	GASKET, GOV. CASE			1	1				
7	1	129155-61060	COVER, GOVERNOR CASE			1	1				
8	1	129155-61070	GASKET, CASE COVER			1	1				
9	1	129155-61120	LINK L=30(MARK 0			1	1				
10	1	129155-61130	LINK L=31(MARK 1			1	1				
11	1	129155-61140	LINK L=30.5(MARK 05)			1	1				
12	1	129155-61201	WEIGHT ASSY, GOV.			1	1				
16	1	129155-61341	SLEEVE(L=25.5)			1	1				
17	1	129100-61400	SHAFT ASSY, CONTROL			1	1				
20	1	129155-61430	SPACER, SHAFT			1	1				
24	1	129100-61440	LEVER, CONTROL			1	1				
25	1	129155-61450	BOLT, REVOL. LIMIT			1	1				
26	1	129428-61450	TORQUE SPRING ASSY			1	1				
32	1	129155-61460	BOLT, IDLE LIMIT			1	1				
33	1	129155-61490	SHAFT, GOV. LEVER			1	1				
34	1	119843-61500	LEVER ASSY, GOVERNOR			1	1				
35	2	174307-51700	SHIM SET			2	2				
46	2	129100-61510	LEVER, TENSION			1	1				
47	2	119843-61520	LEVER A,GOVERNOR			1	1				
48	2	119843-61530	LEVER B,GOVERNOR			1	1				
49	2	119843-61540	SPRING			1	1				
50	2	129155-61540	SHIFTER			1	1				
51	2	119843-61550	BUSH			2	2				
52	2	171353-61910	HOOK, TENSION LEVER			1	1				
53	2	129100-61920	PIN			1	1				
54	2	22272-000040	CIRCLIP E- 4			1	1				
55	2	26022-060122	SCREW M 6X 12			1	1				
56	1	129100-61650	SPRING, FUEL CONTROL			1	1				
57	1	171353-61710	SPRING, GOVERNOR			1	1				
58	1	129129-61801	LEVER ASSY, STOP			1	1				
59	1	129155-61810	PIN, STOP LEVER			1	1				
60	1	129155-61830	O-RING S10			1	1				
61	1	129116-61890	SUPPORT, STOP LEVER			1	1				
62	1	129155-61950	BOLT, WASHER BASED			1	1				
63	1	124550-66370	LOCK NUT M 6			1	1				
64	1	22117-040000	WASHER 4			1	1				
65	1	22137-080000	WASHER 8, POLISHED			1	1				
66	1	22272-000060	CIRCLIP E- 6			2	2				
67	1	22287-120000	WASHER 12			1	1				
68	1	22372-040000	SNAP PIN 4			2	2				
69	1	22417-160180	COTTER PIN 1.6X18			1	1				
70	1	23887-100002	PLUG 10			1	1				
71	1	24311-240100	O-RING 1A P-10A			1	1				
72	1	26022-050102	SCREW M 5X 10			4	4				
73	1	26106-060202	BOLT M 6X 20 PLATED			5	5				
74	1	26106-060252	BOLT M 6X 25 PLATED			1	1				
75	1	26366-080002	NUT M 8			1	1				
76	1	26687-120002	CAP NUT M12			1	1				

Fig.17. GOVERNOR(FOR 3TNC80)

(A)=3TNC78-RN  
(B)=3TNC78-RNP  
(C)=3TNC80-RN

(D)=3TNC80-RNP  
(E)=  
(F)=

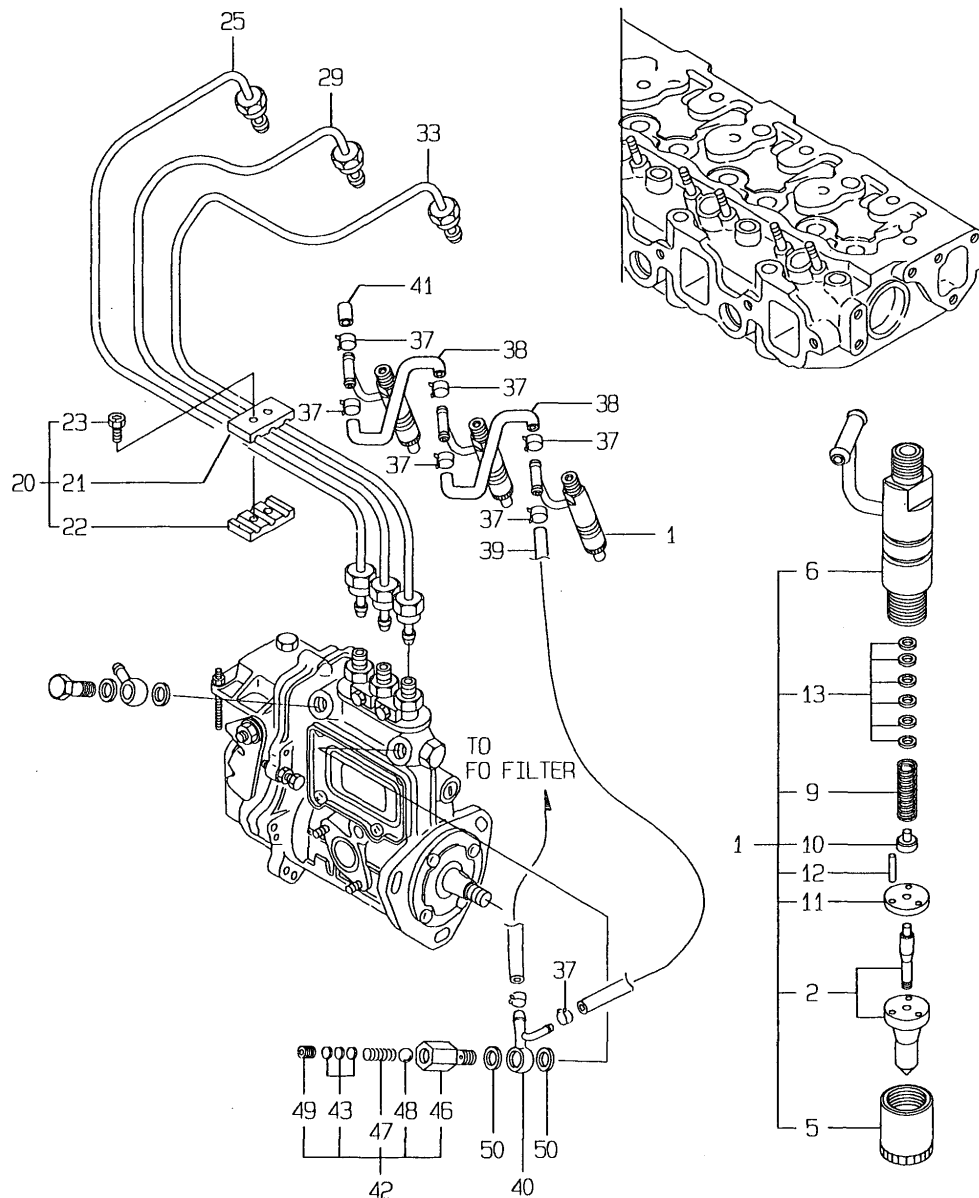
17. GOVERNOR (FOR 3TNC80)



REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
77	1	26756-060002	LOCK NUT 6			1	1				
78	1	26776-120002	LOCK NUT M12 PLATED			2	2				
79	1	43400-500390	SEAL WASHER 6S			1	1				
80	1	43400-500430	SEAL WASHER 10S			1	1				
81	1	43400-500450	SEAL WASHER 12S			2	2				
82	1	135210-61090	LEAD			1	1				
83	1	22451-060000	WIRE 0.6			1	1				

Fig.18. FUEL INJECTION VALVE

18.FUEL INJECTION VALVE



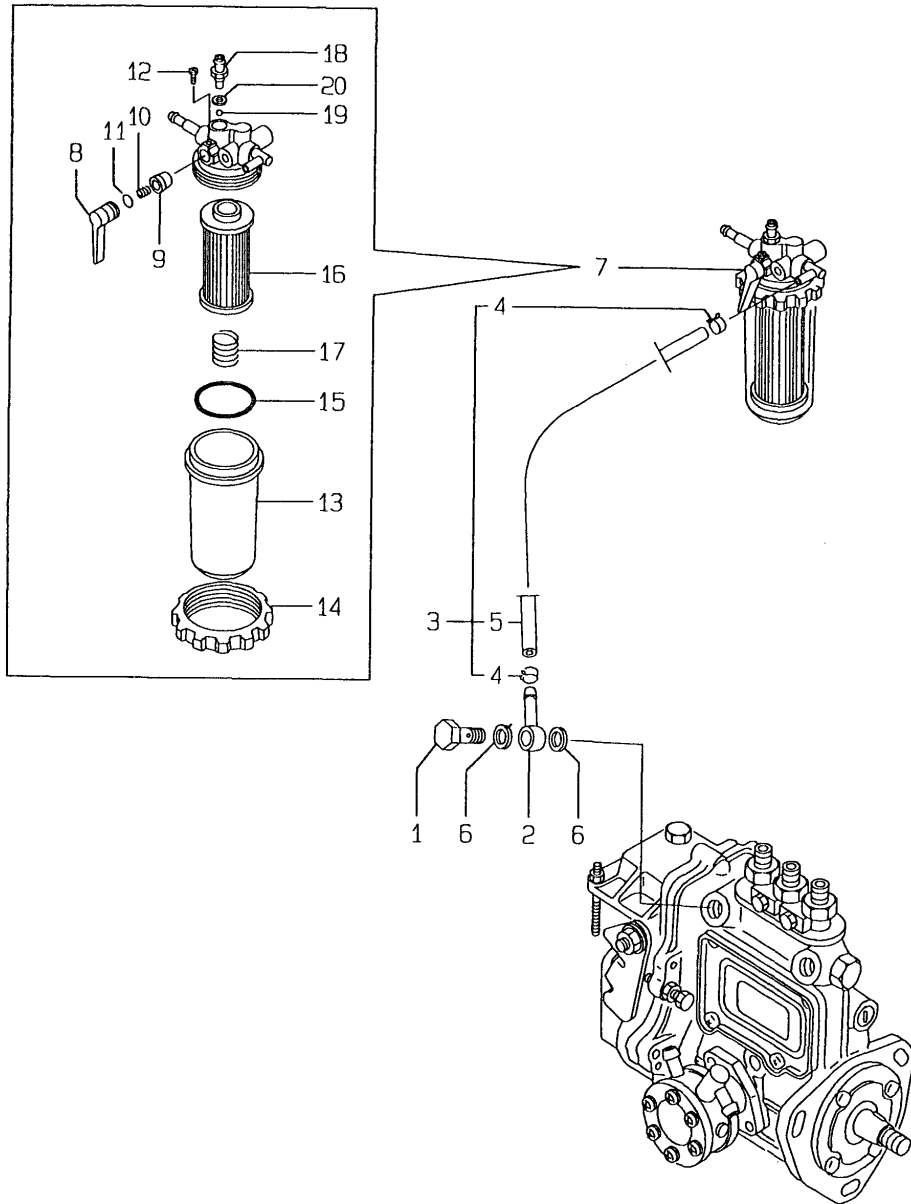
(A)=3TNC78-RN  
(B)=3TNC78-RNP  
(C)=3TNC80-RN

(D)=3TNC80-RNP  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719807-53100	VALVE ASSY, F.INJECT	3	3	3	3				
2	2	119807-53000	NOZZLE ASSY,F.INJECT	3	3	3	3				
5	2	114250-53080	NUT, NOZZLE CASE	3	3	3	3				
6	2	129100-53100	HOLDER ASSY, NOZZLE	3	3	3	3				
9	2	114250-53120	SPRING, NOZZLE	3	3	3	3				
10	2	114250-53130	SEAT, NOZZLE SPRING	3	3	3	3				
11	2	114250-53140	PLATE, STOP	3	3	3	3				
12	2	114250-53210	PIN	6	6	6	6				
13	2	114250-53400	SHIM PACK	3	3	3	3				
20	1	129150-59120	RETAINER, INJ. PIPE	1	1	1	1				
21	2	129150-59100	RETAINER	1	1	1	1				
22	2	129150-59110	RETAINER	1	1	1	1				
23	2	129150-59130	BOLT M 4X 12	2	2	2	2				
25	1	119810-59810	PIPE, FUEL INJECTION	1	1	1	1				
29	1	119810-59820	PIPE, FUEL INJECTION	1	1	1	1				
33	1	119810-59830	PIPE, FUEL INJECTION	1	1	1	1				
37	1	124066-59100	CLAMP 8	7	7	7	7				
38	1	121250-59550	PIPE, FUEL	2	2	2	2				
39	1	119840-59560	PIPE, FUEL RETURN	1	1	1	1				
40	1	119808-59570	JOINT	1	1	1	1				
41	1	129150-59580	CAP	1	1	1	1				
42	1	129100-59951	VALVE ASSY, CHECK	1	1	1	1				
43	2	129100-59850	SHIM SET	1	1	1	1				
46	2	129100-59961	BODY,CHECK VALVE	1	1	1	1				
47	2	129100-59970	SPRING	1	1	1	1				
48	2	24190-080001	BALL 1/4, STEEL	1	1	1	1				
49	2	27241-100000	PLUG 10	1	1	1	1				
50	1	23414-120000	GASKET 12, ROUND	2	2	2	2				

Fig.19. FUEL FILTER

19 FUEL FILTER



(A)=3TNC78-RN  
(B)=3TNC78-RNP  
(C)=3TNC80-RN

(D)=3TNC80-RNP  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	103854-39140	BOLT, PIPE JOINT	1	1	1	1				
2	1	101304-59020	JOINT 12, PIPE	1	1	1	1				
3	1	119860-59020	PIPE ASSY, FUEL OIL	1	1	1	1				
4	2	124766-59050	CLAMP 12	2	2	2	2				
5	2	105110-59560	PIPE, FUEL OIL	1	1	1	1				
6	1	104200-59170	GASKET 12	2	2	2	2				
7	1	119808-55620	STRAINER ASSY, FUEL	1	1	1	1				
8	2	119810-55340	LEVER	1	1	1	1				
9	2	104200-55321	VALVE, TAPER	1	1	1	1				
10	2	104200-55330	SPRING, TAPER VALVE	1	1	1	1				
11	2	24311-240100	O-RING 1A P-10A	1	1	1	1				
12	2	104200-55750	SCREW M 4	1	1	1	1				
13	2	121254-55510	CUP, STRAINER	1	1	1	1				
14	2	110250-55610	RING, RETAINING	1	1	1	1				
15	2	102103-55520	O-RING	1	1	1	1				
16	2	119810-55700	ELEMENT, FUEL OIL	1	1	1	1				
17	2	121250-55620	SPRING	1	1	1	1				
18	2	129107-55740	JOINT	1	1	1	1				
19	2	129107-55750	BALL	1	1	1	1				
20	2	129107-55760	GASKET	1	1	1	1				

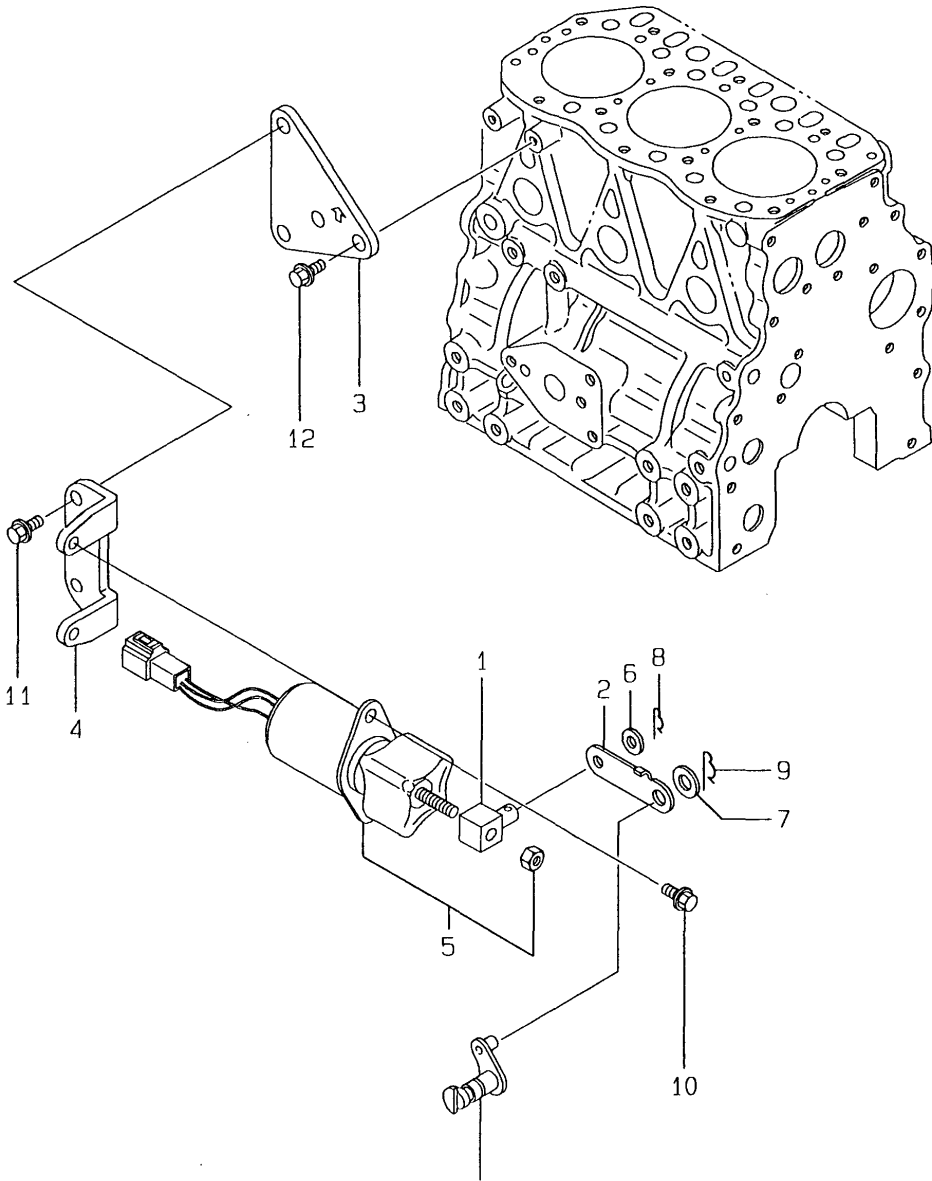
Fig.20. ENGINE STOP DEVICE

20.ENGINE STOP DEVICE

(A)=3TNC78-RN  
(B)=3TNC78-RNP  
(C)=3TNC80-RN

(D)=3TNC80-RNP  
(E)=  
(F)=

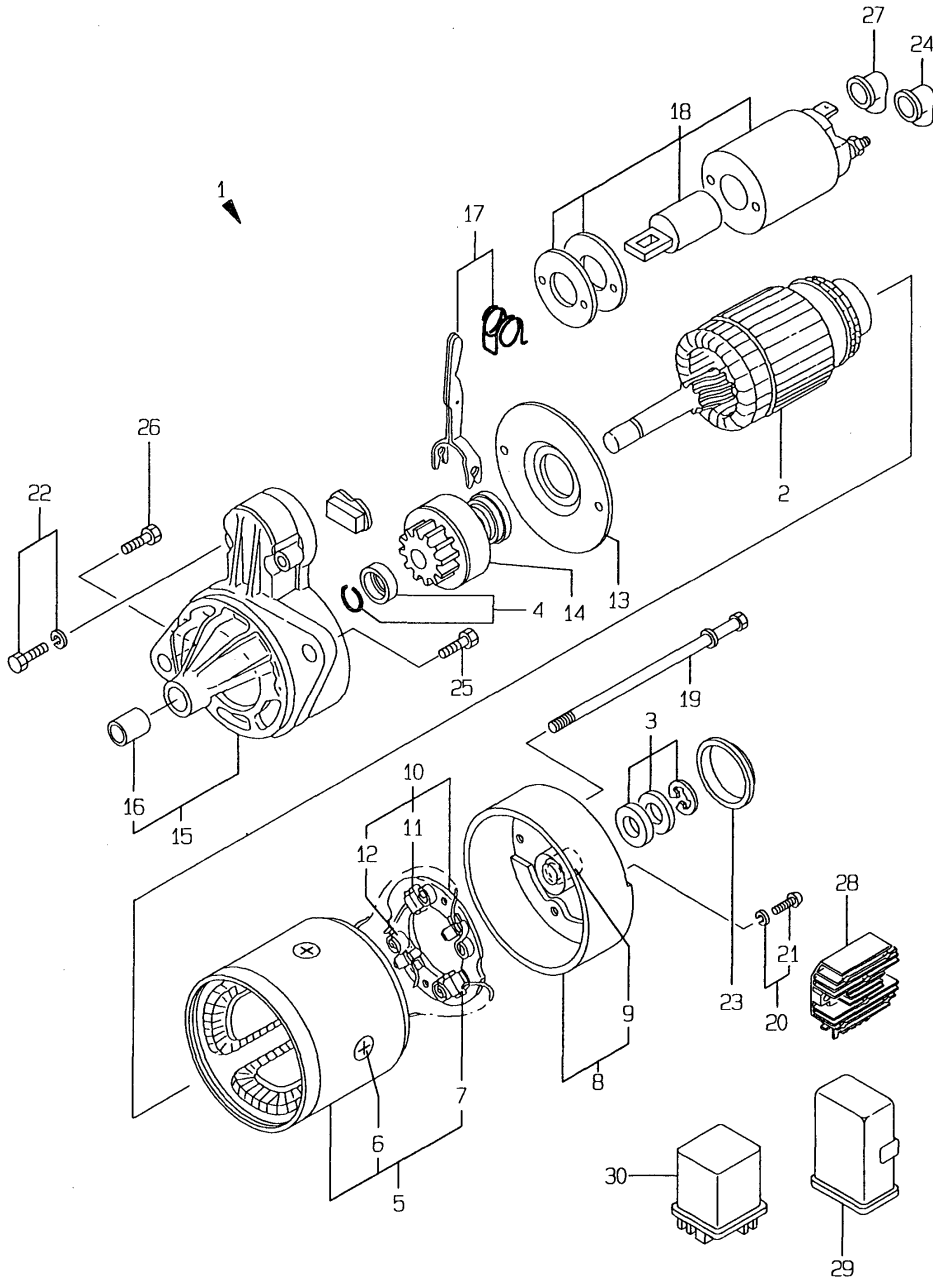
REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119620-66820	JOINT	1	1	1	1				
2	1	119807-66860	LINK	1	1	1	1				
3	1	119808-66870	BRACKET A,SOLENOID	1	1	1	1				
4	1	119808-66880	BRACKET B,SOLENOID	1	1	1	1				
5	1	119807-77800	SOLENOID,STOP	1	1	1	1				
6	1	22117-060000	WASHER 6	1	1	1	1				
7	1	22117-080000	WASHER 8	1	1	1	1				
8	1	22360-060000	SNAP PIN 6	1	1	1	1				
9	1	22360-080000	SNAP PIN 8	1	1	1	1				
10	1	26106-060102	BOLT 6X 10 PLATED	2	2	2	2				
11	1	26106-060142	BOLT M 6X 14 PLATED	2	2	2	2				
12	1	26106-080122	BOLT M 8X 12 PLATED	2	2	2	2				



REFER TO FIG. 16&17

Fig.21. STARTING MOTOR

21.STARTING MOTOR



(A)=3TNC78-RN  
(B)=3TNC78-RNP  
(C)=3TNC80-RN

(D)=3TNC80-RNP  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	121450-77010	STARTER(S114-235B)	1	1	1	1				
2	2	X211491001	ARMATURE ASSY	1	1	1	1				
3	2	X21148110	WASHER SET, THRUST	1	1	1	1				
4	2	X21147155	STOPPER SET, PINION	1	1	1	1				
5	2	X211432001	COIL ASSY, FIELD	1	1	1	1				
6	3	X21147215	SCREW, POLE CORE	4	4	4	4				
7	3	X21145312	BRUSH (+)	2	2	2	2				
8	2	X211453002	COVER ASSY, REAR	1	1	1	1				
9	3	X21145352	METAL	1	1	1	1				
10	2	X211443101	HOLDER ASSY, BRUSH	1	1	1	1				
11	3	X21148313	BRUSH (-)	1	1	1	1				
12	3	X21144314	SPRING, BRUSH	1	1	1	1				
13	2	X21143454	PLATE, CENTER	1	1	1	1				
14	2	X211455003	PINION ASSY	1	1	1	1				
15	2	X211456009	CASE ASSY, GEAR	1	1	1	1				
16	3	X21144661	METAL, GEAR CASE	1	1	1	1				
17	2	X21148652	LEVER SET, SHIFT	1	1	1	1				
18	2	X211497004	SWITCH ASSY, MAGNET	1	1	1	1				
19	2	X21146815	BOLT, THROUGH	2	2	2	2				
20	2	X21142835	SCREW SET	1	1	1	1				
21	3	26557-040122	SCREW M 4X 12,PAN HD	2	2	2	2				
22	2	26116-060322	BOLT M 6X 32 PLATED	2	2	2	2				
23	2	X21143963	COVER KIT, DUCT	1	1	1	1				
24	2	X21142472	COVER, TERMINAL	1	1	1	1				
25	1	119865-01650	BOLT	1	1	1	1				
26	1	26106-100202	BOLT M10X 20 PLATED	1	1	1	1				
27	1	124550-77030	COVER, TERMINAL	1	1	1	1				
28	1	129150-77710	CURRENT LIMITER(20A)	1	1	1	1				
29	1	129505-77880	BODY, CONTROLLER	1	1	1	1				
30	1	119650-77920	BODY, RELAY	1	1	1	1				

Fig.22. GENERATOR

22. GENERATOR

(A)=3TNC78-RN  
(B)=3TNC78-RNP  
(C)=3TNC80-RN

(D)=3TNC80-RNP  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129150-77202	GENERATOR	1	1	1	1				
2	2	XM219230000	WASHER, SPRING	1	1	1	1				
3	2	XM329830000	COLLAR	1	1	1	1				
4	2	XM860250000	WASHER 10	1	1	1	1				
5	2	XM863720000	NUT	1	1	1	1				
6	2	129150-77210	PLATE ASSY	1	1	1	1				
7	3	XM069000000	CLAMP	1	1	1	1				
8	3	XM081780000	STATOR	1	1	1	1				
9	3	XM178780000	COUPLER	1	1	1	1				
10	3	XYSPS400800	SCREW	1	1	1	1				
11	3	XYSPS402400	SCREW	2	2	2	2				
14	2	129150-77230	FLYWHEEL ASSY	1	1	1	1				
15	1	119808-77330	ADJUSTER, V-BELT	1	1	1	1				
16	1	26014-080252	BOLT M 8X 25	1	1	1	1				

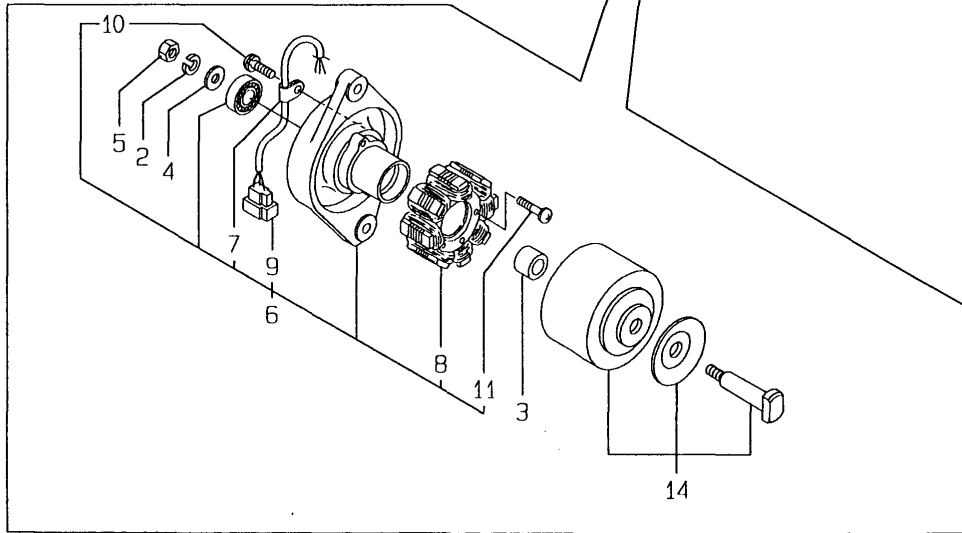
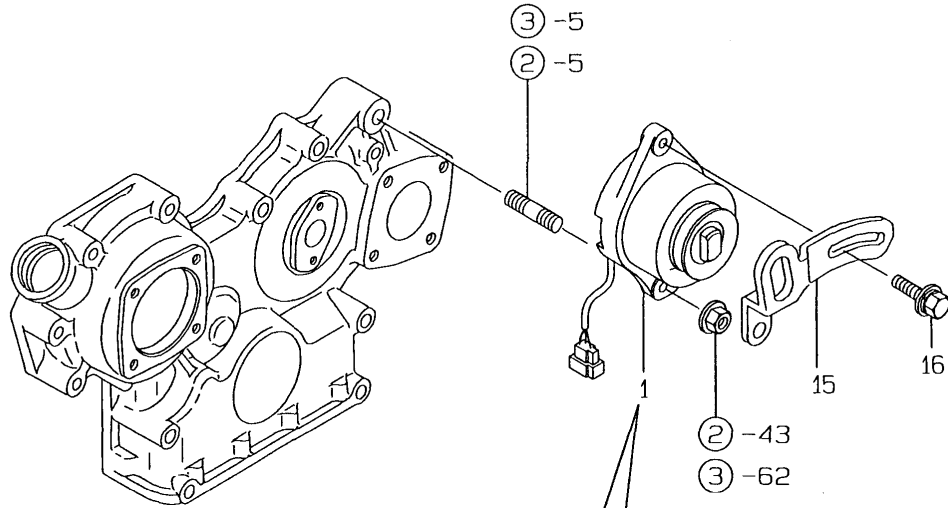
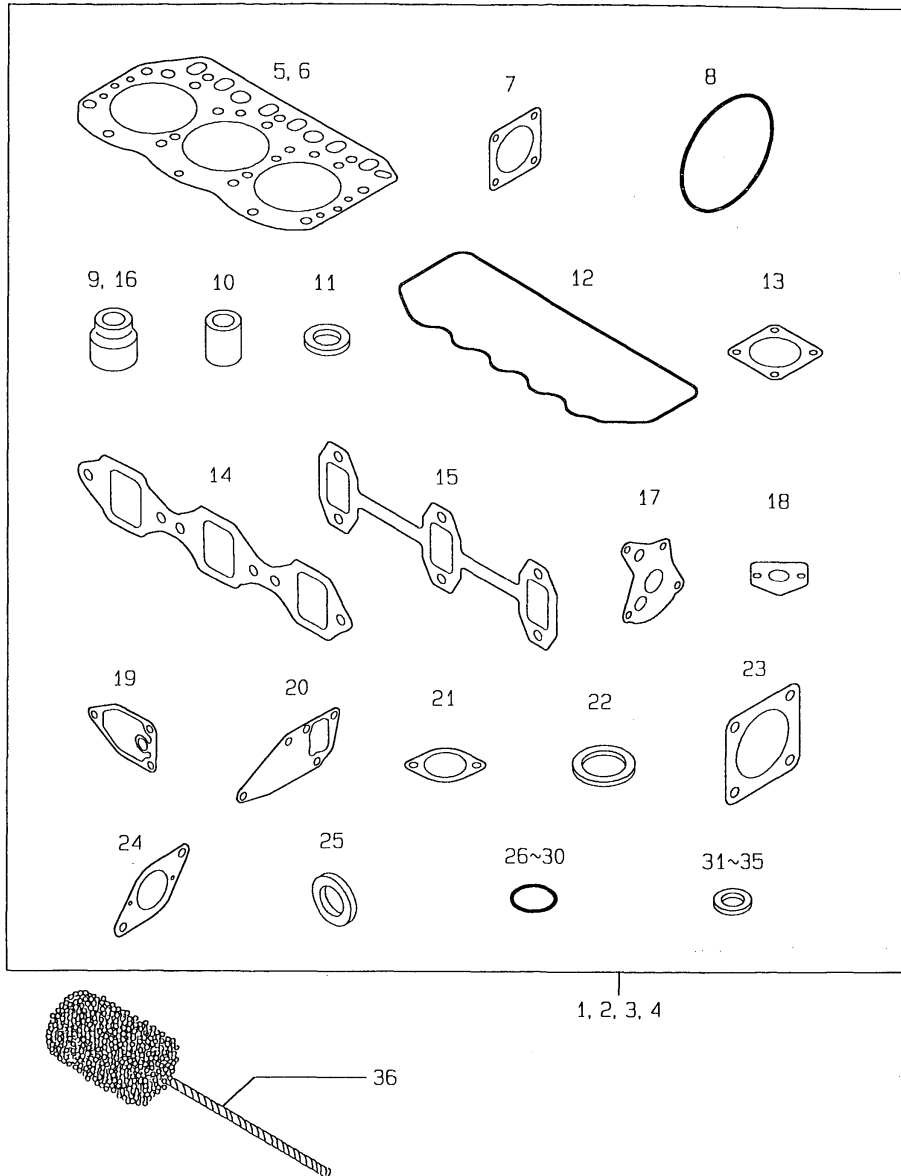


Fig.23. GASKET SET(OPTIONAL)

(A)=3TNC78-RN  
(B)=3TNC78-RNP  
(C)=3TNC80-RN

(D)=3TNC80-RNP  
(E)=  
(F)=

23.GASKET SET (OPTIONAL)



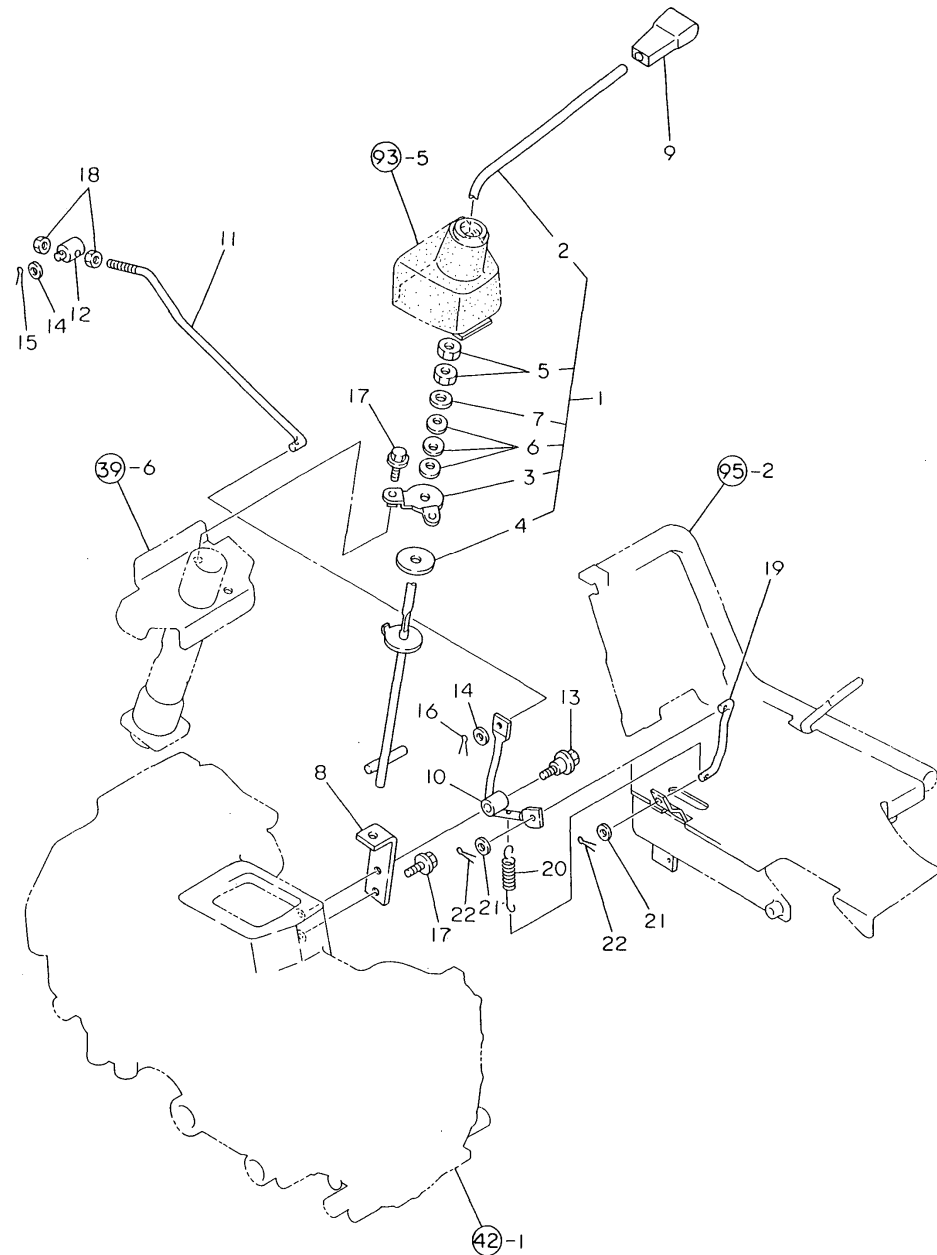
REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719808-92600	GASKET SET	1							1
2	1	719808-92610	GASKET SET		1						1
3	1	719809-92600	GASKET SET			1					1
4	1	719809-92610	GASKET SET				1				1
5	2	119811-01330	GASKET, HEAD	1	1						
6	2	119812-01330	GASKET, HEAD				1	1			
7	2	124240-01883	GASKET, PUMP	2	3	2	3				
8	2	121850-51960	O-RING, F.I.PUMP	1	1	1	1				
9	2	124160-11340	SEAL, VALVE STEM(INT)	3	3	3	3				
10	2	119625-11870	PROTECTOR, NOZZLE	3	3	3	3				
11	2	119625-11880	SEAT, NOZZLE	3	3	3	3				
12	2	119865-11310	GASKET, BONNET	1	1	1	1				
13	2	129150-77511	GASKET, AIR HEATER	1	1	1	1				
14	2	119810-12111	GASKET, MANIFOLD	1	1	1	1				
15	2	119810-13110	GASKET, EXH.MANIFOLD	1	1	1	1				
16	2	124950-11340	SEAL, VALVE STEM(EXH)	3	3	3	3				
17	2	129150-32020	GASKET, L.O. PUMP	1	1	1	1				
18	2	129150-35041	GASKET, PIPE	1	1	1	1				
19	2	129150-35111	GASKET, BRACKET	1	1	1	1				
20	2	129150-42020	GASKET, PUMP	1	1	1	1				
21	2	129795-49551	GASKET, COVER	1	1	1	1				
22	2	129150-49811	GASKET, (NON-ASB.)	1	1	1	1				
23	2	129150-01881	GASKET, COVER	1	1	1	1				
24	2	129107-13540	GASKET, SILENCER	1	1	1	1				
25	2	129155-52050	GASKET	1	1	1	1				
26	2	24311-000120	O-RING 1A P 12.0	3	3	3	3				
27	2	24311-000160	O-RING 1A P-16.0	3	3	3	3				
28	2	24311-000320	O-RING 1A P-32.0	1	1	1	1				
29	2	24341-000500	O-RING 1A S-50.0	1	1	1	1				
30	2	24341-000240	O-RING 1A S-24.0	1	1	1	1				
31	2	23414-080000	GASKET 8, ROUND	2	2	2	2				
32	2	23414-100000	GASKET 10, ROUND	2	2	2	2				
33	2	124465-44950	GASKET 16	1	1	1	1				
34	2	129150-49360	GASKET 10	1	1	1	1				
35	2	104200-59170	GASKET 12	2	2	2	2				
36	1	129400-92420	FLEX HORN	1	1	1	1				1

Remarks  
(1)OPTIONAL PART.



Fig.24. AXEL LEVER & FOOT AXLE

Fig. 24 AXEL LEVER & FOOT AXLE



(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

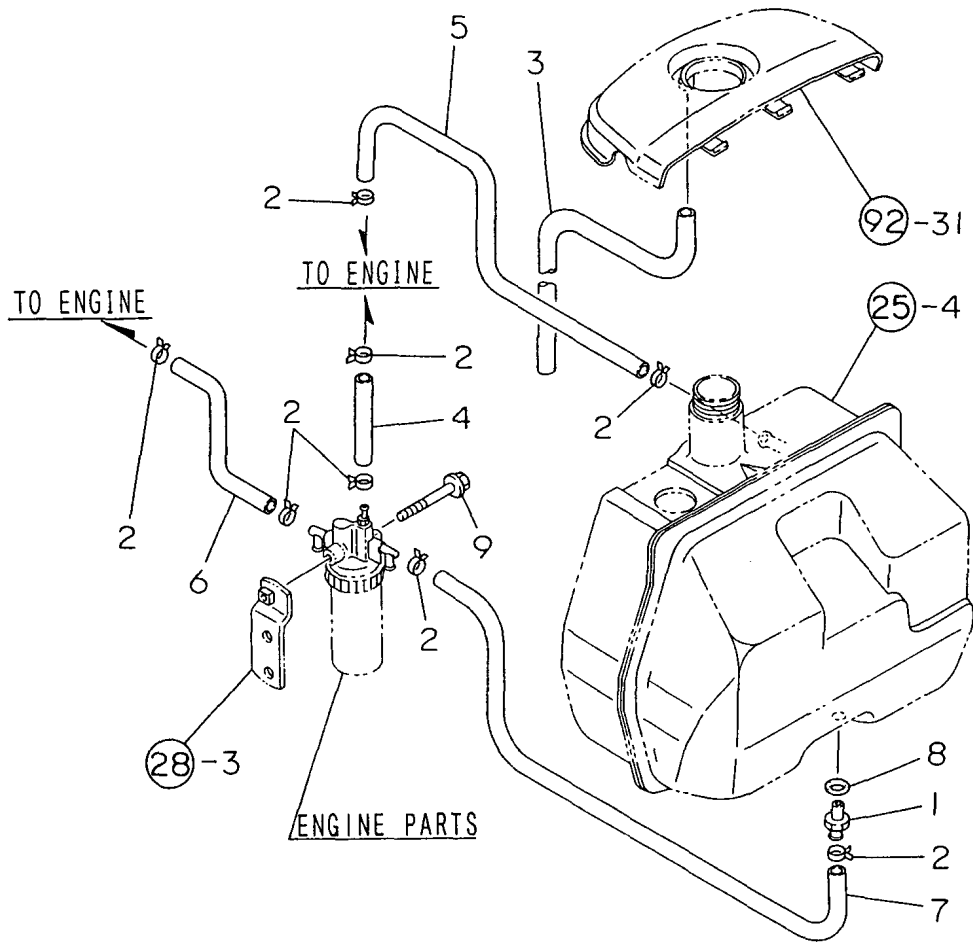
(D)=F220DXP-P  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	798010-01110	LEVER KIT,ACCELERATR	1	1	1	1				
2	2	198010-01110	LEVER, THROTTLE	1	1	1	1				
3	2	198010-01160	BRACKET, THRTL LEVER	1	1	1	1				
4	2	194145-01260	PLATE, FRICTION	1	1	1	1				
5	2	194130-15530	LOCK NUT 12	2	2	2	2				
6	2	194151-47760	WASHER 12	3	3	3	3				
7	2	22137-120000	WASHER 12,POLISHED	1	1	1	1				
8	1	198010-01190	HINGE	1	1	1	1				
9	1	194940-01230	KNOB,ACCELERAT.LEVER	1	1	1	1				
10	1	198010-01350	LEVER, THRTL LINK	1	1	1	1				
11	1	198010-01360	ROD, ACCEL. LINK	1	1	1	1				
12	1	194150-01370	ADJUSTER	1	1	1	1				
13	1	194145-62241	BOLT	1	1	1	1				
14	1	22137-080000	WASHER 8, POLISHED	2	2	2	2				
15	1	22417-160180	COTTER PIN 1.6X18	1	1	1	1				
16	1	22417-200300	COTTER PIN 2.0X30	1	1	1	1				
17	1	26106-080162	BOLT M 8X 16 PLATED	3	3	3	3				
18	1	26716-080002	NUT M 8	2	2	2	2				
19	1	198010-01440	ROD, THROTTLE	1	1	1	1				
20	1	194750-04400	SPRING, RETURN	1	1	1	1				
21	1	22137-060000	WASHER 6, POLISHED	2	2	2	2				
22	1	22417-200300	COTTER PIN 2.0X30	2	2	2	2				



Fig.26. FUEL PIPE

Fig. 26 FUEL PIPE



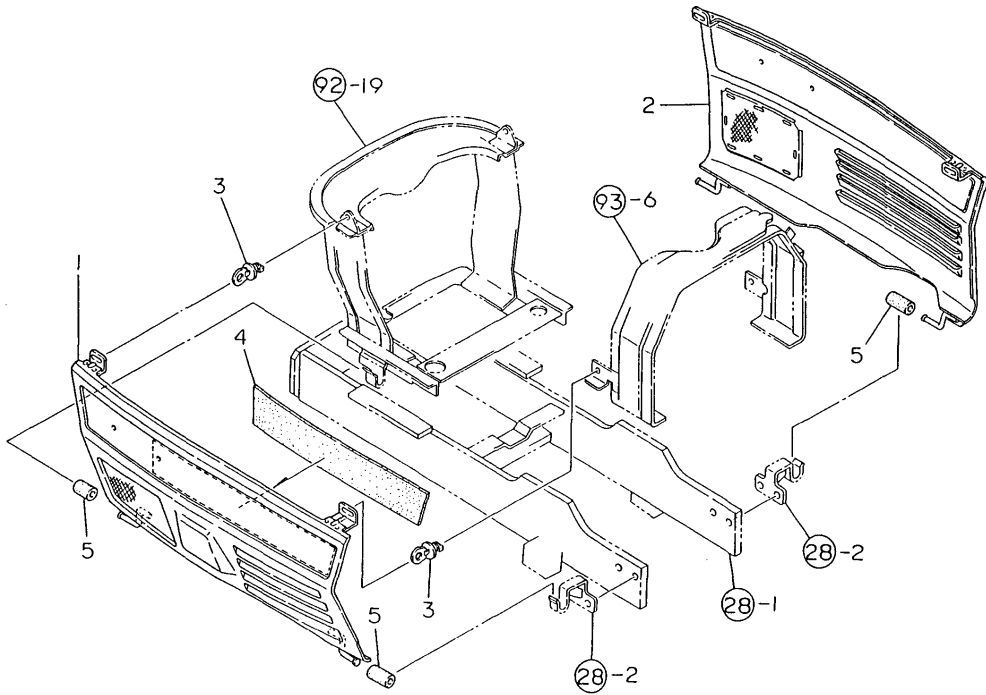
(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198220-04750	JOINT	1	1	1	1				
2	1	124766-59050	CLAMP 12	8	8	8	8				
3	1	23065-160950	PIPE 16X 950	1	1	1	1				
4	1	23780-070140	HOSE 7X140,FUEL	1	1	1	1				
5	1	23780-070450	HOSE 7X450,FUEL	1	1	1	1				
6	1	23980-730130	HOSE G 7.3X130,BRAID	1	1	1	1				
7	1	23980-730540	FUEL PIPE 7.3X540	1	1	1	1				
8	1	24311-000150	O-RING 1A P-15.0	1	1	1	1				
9	1	26106-080652	BOLT M 8X 65 PLATED	1	1	1	1				

Fig.27. BELT COVER

Fig. 27 BELT COVER



(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

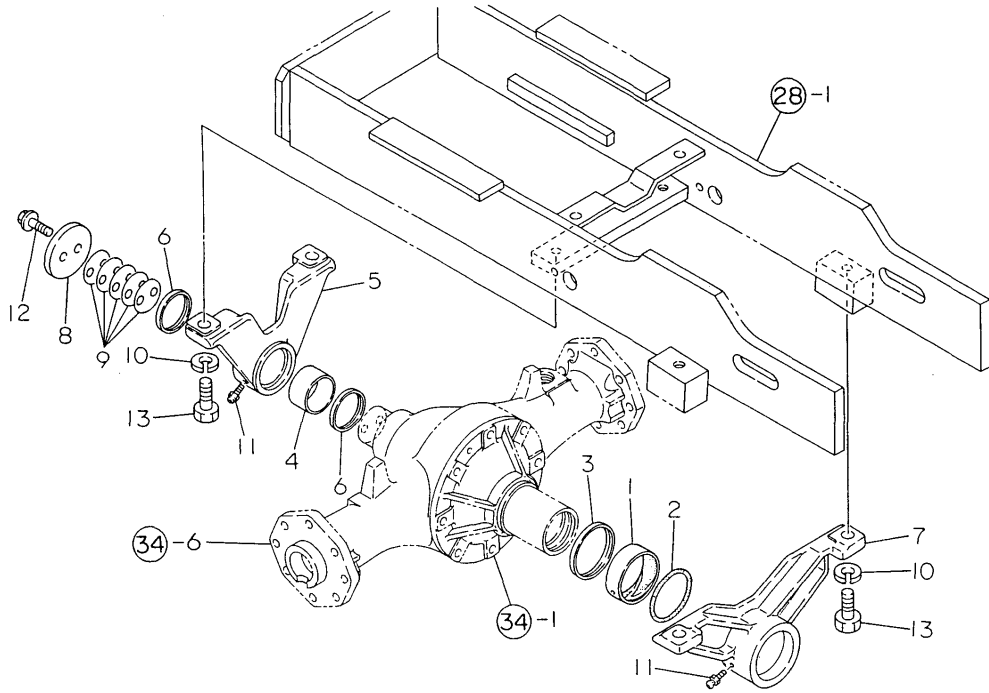
(D)=F220DXP-P  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198010-05100	COVER L COMPL.,SIDE	1	1	1	1				
2	1	198010-05150	COVER R COMP.,SIDE	1	1	1	1				
3	1	198220-61350	FASTENER,QUARTERTURN	4	4	4	4				
4	1	198010-61450	PAD	1	1	1	1				
5	1	198220-61800	RUBBER, CUSHION	4	4	4	4				



Fig.29. CENTER PIN SUPPORT

Fig. 29 CENTER PIN SUPPORT



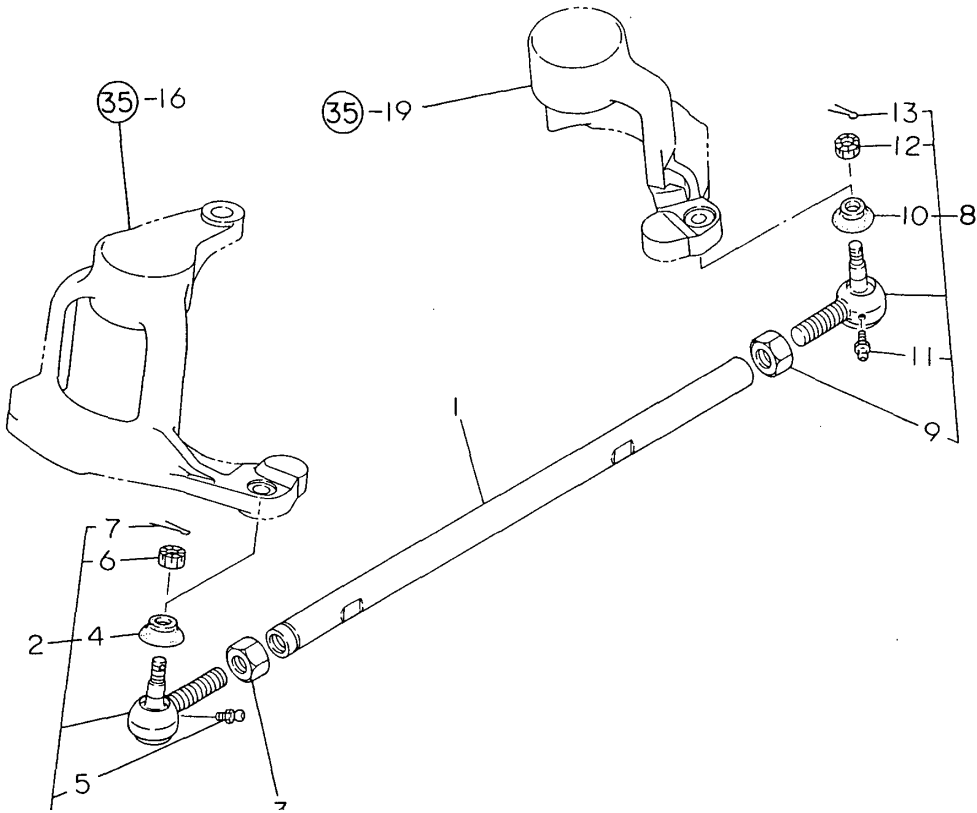
(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194556-11620	BUSH 60X66X22	1	1	1	1				
2	1	194556-11630	O-RING 3060	1	1	1	1				
3	1	194556-11640	SEAL VB60 66 5, OIL	1	1	1	1				
4	1	194451-11960	BUSH 45X49X25	1	1	1	1				
5	1	198291-13230	SUPPORT F,AXLE (49)	1	1	1	1				
6	1	198291-13240	SEAL G455204,OIL	2	2	2	2				
7	1	198291-13250	SUPPORT R,AXLE (49)	1	1	1	1				
8	1	198291-13260	PLATE,THRUST	1	1	1	1				
9	1	198291-13270	SHIM 43	5	5	5	5				
I	10	22217-140000	SPRING WASHER 14	4	4	4	4				
	11	24761-010000	NIPPLE M6F, GREASE	2	2	2	2				
	12	26106-100302	BOLT M10X 30 PLATED	2	2	2	2				
	13	26116-140452	BOLT M14X 45 PLATED	4	4	4	4				

Fig.30. TIE-ROD

Fig. 30 TIE-ROD



(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

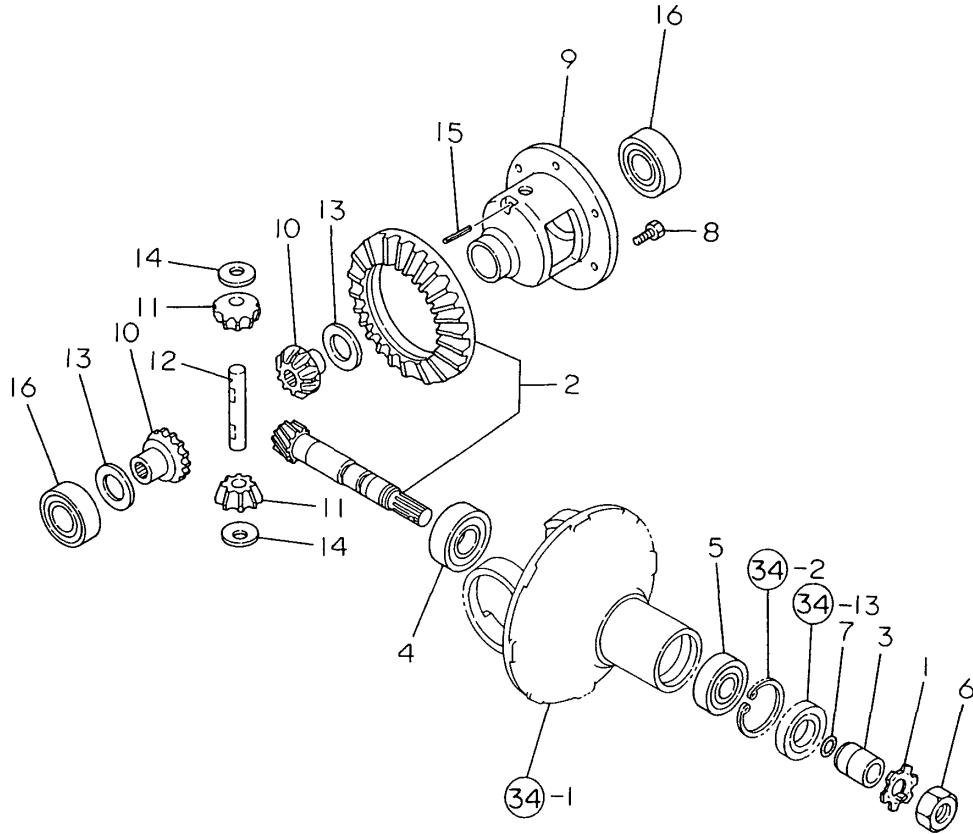
REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198291-12310	TIE-ROD (49)	1	1	1	1				
2	1	198240-18120	TIRE-ROD END KIT(LR)	1	1	1	1				
3	2	194990-22830	NUT M17	1	1	1	1				
4	2	194730-57220	COVER, DUST	1	1	1	1				
5	2	24761-060000	NIPPLE MT6X1, GREASE	1	1	1	1				
6	2	198240-12590	NUT 12	1	1	1	1				
7	2	22417-300250	COTTER PIN 3.0X 25	1	1	1	1				
8	1	198240-18130	TIRE-ROD END KIT RL	1	1	1	1				
9	2	194990-22840	NUT M17	1	1	1	1				
10	2	194730-57220	COVER, DUST	1	1	1	1				
11	2	24761-060000	NIPPLE MT6X1, GREASE	1	1	1	1				
12	2	198240-12590	NUT 12	1	1	1	1				
13	2	22417-300250	COTTER PIN 3.0X 25	1	1	1	1				

Fig.31. RING GEAR & DIFFERENTIAL GEAR

(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

Fig. 31 RING GEAR & DIFFERENTIAL GEAR

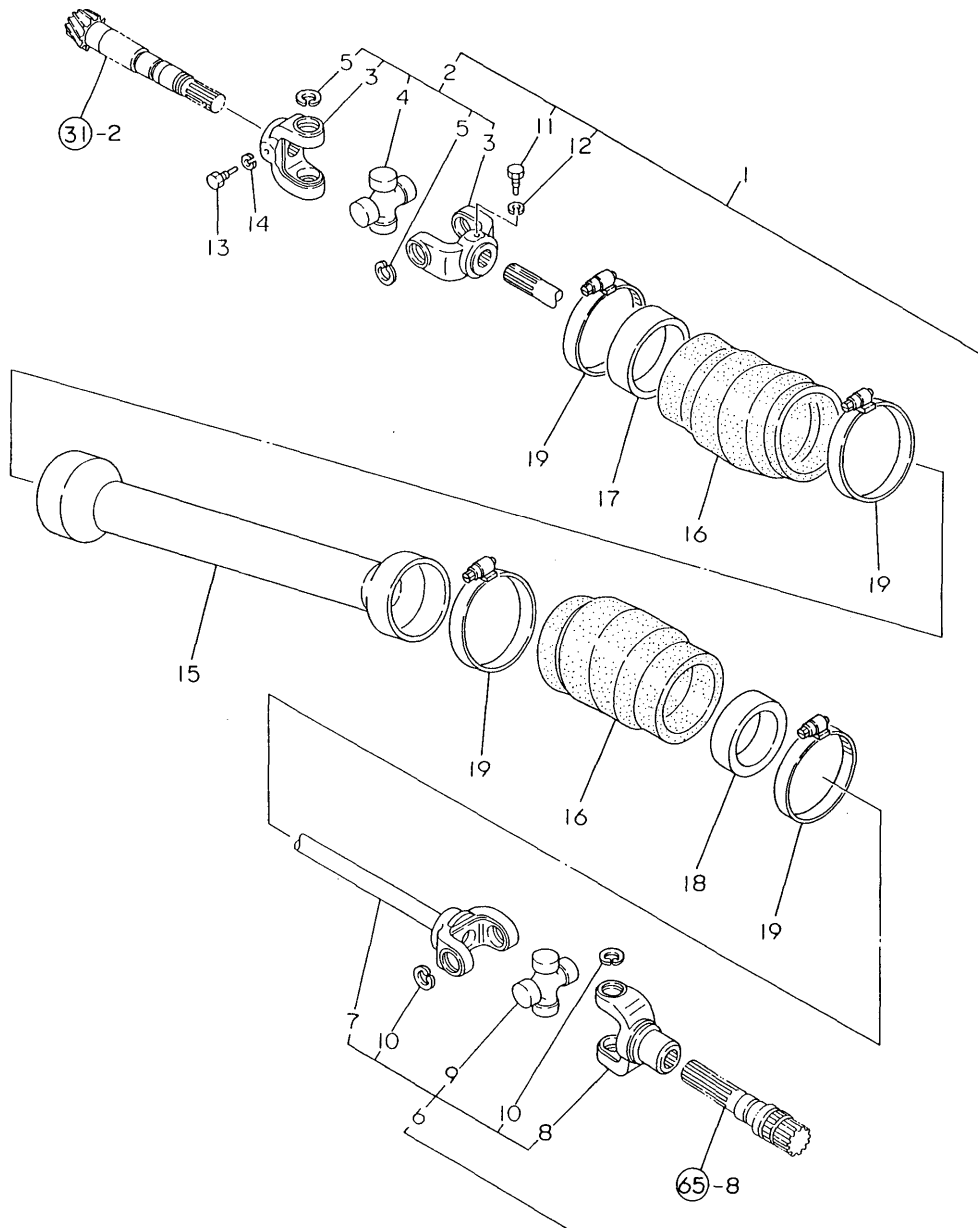


REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194301-11660	WASHER 20	1	1	1	1				
2	1	198291-13100	GEAR COMPL.,RING	1	1	1	1				
3	1	194441-13130	COLLAR 20X30X32	1	1	1	1				
4	1	194447-13860	BALL BEARING	1	1	1	1				
5	1	194555-25880	BALL BEARING	1	1	1	1				
6	1	194300-32260	NUT 20	1	1	1	1				
7	1	24341-000180	O-RING 1A S-18.0	1	1	1	1				
8	1	194301-11800	BOLT M 8X 14	6	6	6	6				
9	1	198221-13210	CASE, DIFFERENTIAL	1	1	1	1				
10	1	194300-31550	GEAR, DIFFERENTIAL	2	2	2	2				
11	1	194300-31560	GEAR, DIFFERENTIAL	2	2	2	2				
12	1	194300-31570	SHAFT, DIFFERENTIAL	1	1	1	1				
13	1	194300-31610	WASHER, DIFFERENTIAL	2	2	2	2				
14	1	194300-31620	WASHER, DIFFERENTIAL	2	2	2	2				
15	1	22351-040030	SPRING PIN 4X30	1	1	1	1				
16	1	24101-060084	BALL BEARING	2	2	2	2				



Fig.32. PROPELLER SHAFT

Fig. 32 PROPELLER SHAFT



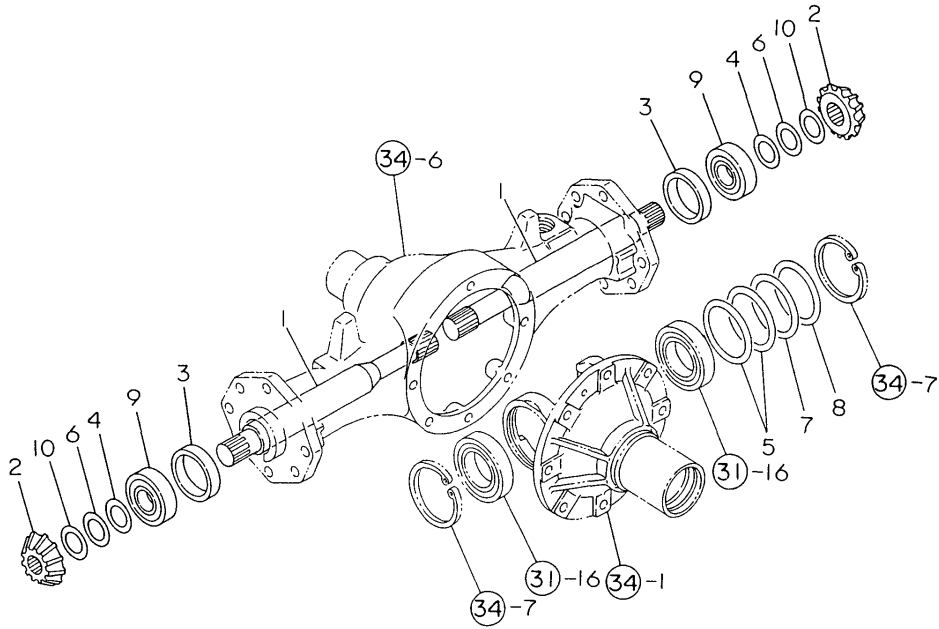
(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198291-13300	SHAFT COMP,PROPELLER	1	1	1	1				
2	2	194516-13320	JOINT CMP,FRONT (12)	1	1	1	1				
3	3	194516-13390	YOKE, SPLINE	2	2	2	2				
4	3	194800-22260	JOURNAL	1	1	1	1				
5	3	22252-000200	CIRCLIP 20	4	4	4	4				
6	2	198291-13340	JOINT COMP.,CROSS	1	1	1	1				
7	3	198291-13380	SHAFT COMP,PROPELLER	1	1	1	1				
8	3	194800-22250	YOKE,SLEEVE	1	1	1	1				
9	3	194800-22260	JOURNAL	1	1	1	1				
10	3	22252-000200	CIRCLIP 20	4	4	4	4				
11	2	194526-13410	BOLT M 8	1	1	1	1				
12	2	22217-080000	SPRING WASHER 8	1	1	1	1				
13	1	194526-13410	BOLT M 8	1	1	1	1				
14	1	22217-080000	SPRING WASHER 8	1	1	1	1				
15	1	198291-14610	COVER,SHAFT	1	1	1	1				
16	1	194198-14650	BOOT, RUBBER	2	2	2	2				
17	1	198291-14650	COLLAR F,RUBBER BOOT	1	1	1	1				
18	1	194516-14660	COLLAR, RUBBER BOOT	1	1	1	1				
19	1	194441-14670	CLAMP	4	4	4	4				

Fig.33. FRONT SHAFT (1)

Fig. 33 FRONT SHAFT(1)



OCT10-G24400 33. FRONT SHAFT (1)

(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

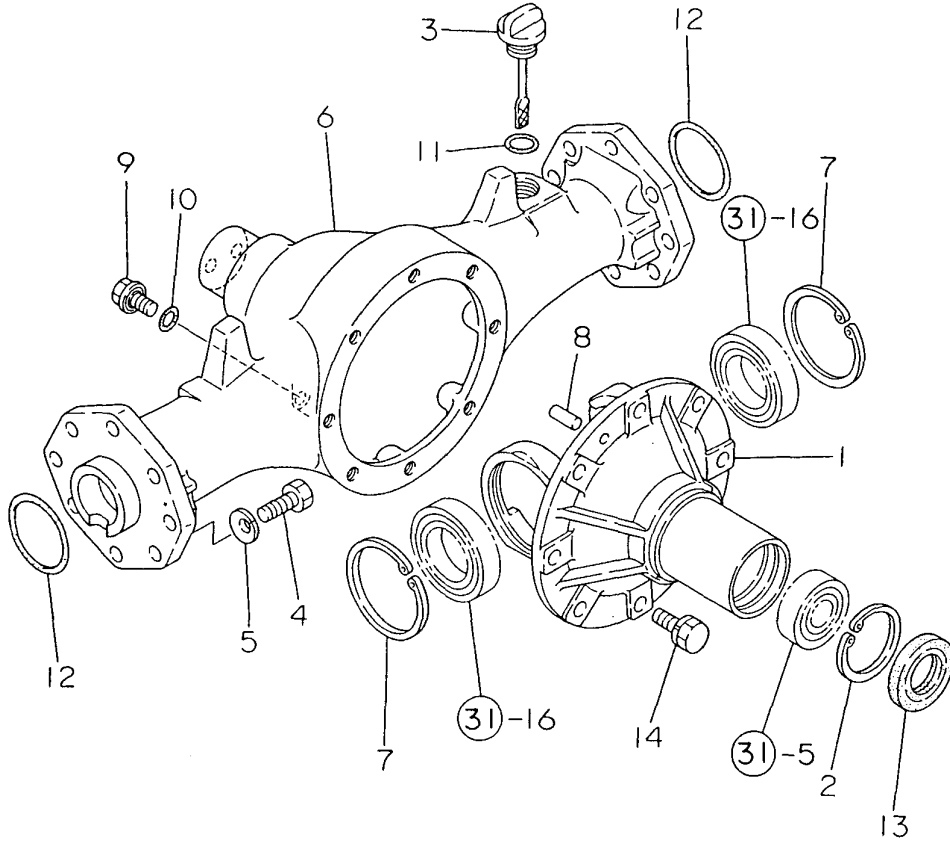
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198011-13510	SHAFT, FRONT AXLE	2	2	2	2				
2	1	194516-13520	PINION, DRIVE SHAFT	2	2	2	2				
3	1	198011-13550	SPACER	2	2	2	2				
4	1	194191-13570	SHIM (A)	2	2	2	2				
5	1	194447-13570	SHIM T=0.1F	2	2	2	2				
6	1	194191-13580	SHIM (B)	2	2	2	2				
7	1	194447-13580	SHIM T=0.3F	1	1	1	1				
8	1	194447-13590	SHIM T=0.5F	1	1	1	1				
9	1	194640-25390	BALL BEARING	2	2	2	2				
I	10	1	194200-25470	SHIM	2	2	2	2			

Fig.34. FRONT AXLE CASE

(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

Fig. 34 FRONT AXLE CASE



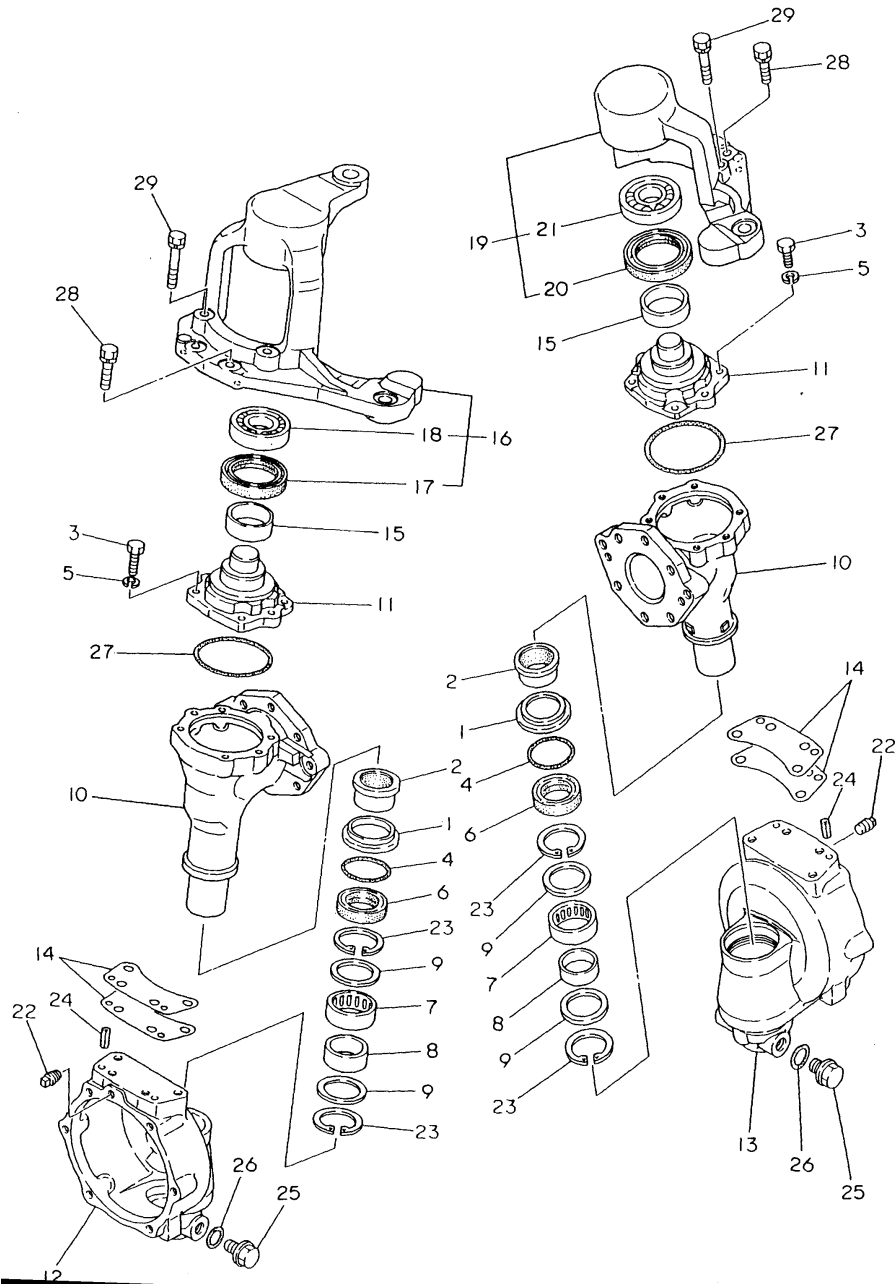
REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198291-13450	CARRIER,FRONT DIFF.	1	1	1	1				
2	1	194516-13470	CIRCLIP 52-H	1	1	1	1				
3	1	198291-13491	GAUGE,OIL LEVEL	1	1	1	1				
4	1	194274-13550	BOLT M10X 30	16	16	16	16				
5	1	194274-13570	SPRING WASHER 10	16	16	16	16				
6	1	198291-13611	CASE,FRONT AXLE	1	1	1	1				
7	1	22252-000680	CIRCLIP 68	2	2	2	2				
8	1	22312-080180	PARALLEL PIN 8X16	1	1	1	1				
9	1	23491-140002	PLUG 14	1	1	1	1				
10	1	24311-000160	O-RING 1A P-16.0	1	1	1	1				
11	1	24311-000180	O-RING 1A P-18.0	1	1	1	1				
12	1	24321-000500	O-RING 1A G-50.0	2	2	2	2				
13	1	24421-305208	SEAL TC30 52 08, OIL	1	1	1	1				
14	1	26013-100252	BOLT W/WASHER M10X25	8	8	8	8				

Fig.35. FRONT GEAR CASE

(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

Fig. 35 FRONT GEAR CASE



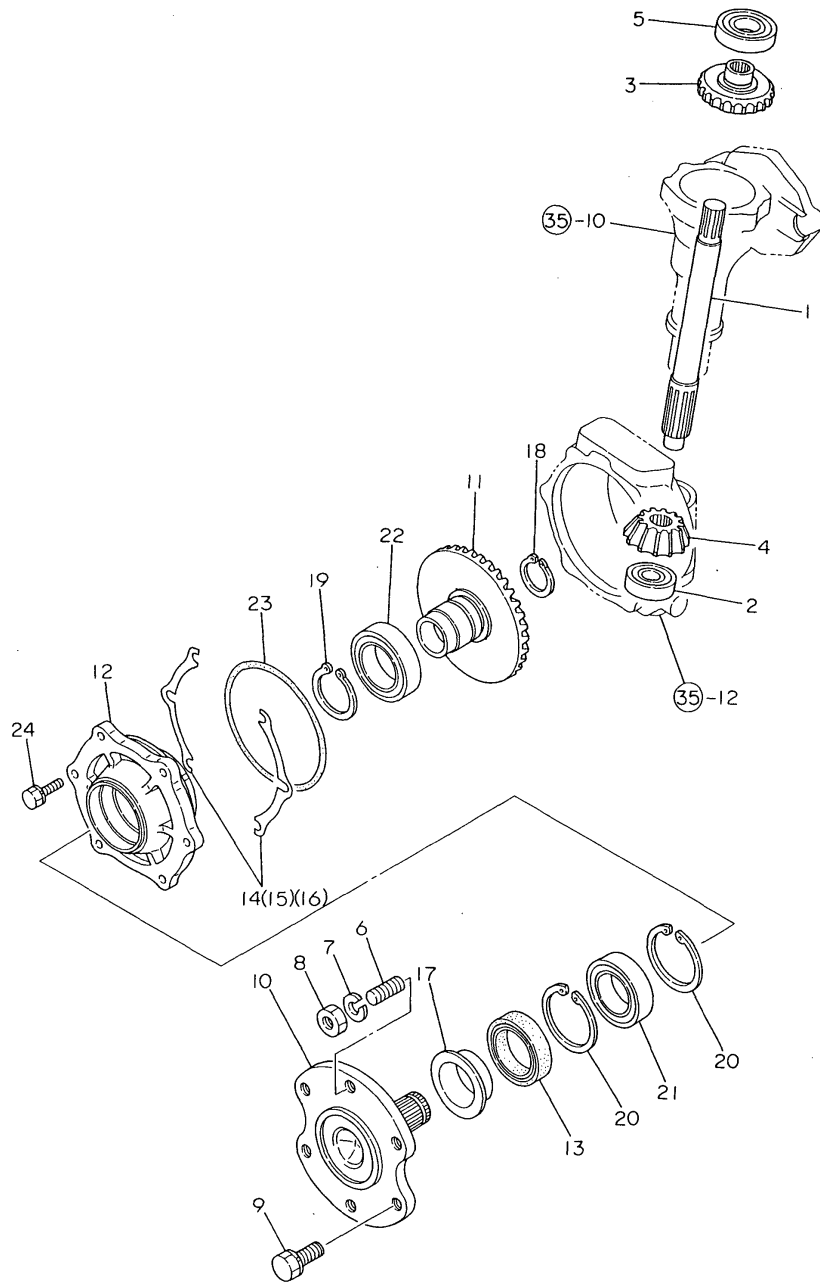
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194306-13630	COLLAR 48X57X10	2	2	2	2				
2	1	194306-13640	SLEEVE 40X50X26	2	2	2	2				
3	1	194421-13640	BOLT M 8X22	12	12	12	12				
4	1	194306-13650	O-RING 1A P 45.0 A	2	2	2	2				
5	1	194421-13650	SPRING WASHER 8	12	12	12	12				
6	1	194447-13650	SEAL TC6Y445711.5	2	2	2	2				
7	1	194447-13660	NEEDLE BEARING	2	2	2	2				
8	1	194447-13670	RACE 404517, INNER	2	2	2	2				
9	1	194447-13680	WASHER 42X52X1.6	4	4	4	4				
10	1	198011-13710	CASE, FRONT GEAR	2	2	2	2				
11	1	194516-13721	COVER,FRNT.GEAR CASE	2	2	2	2				
12	1	194516-13740	BOX, FRONT GEAR	1	1	1	1				
13	1	194516-13750	BOX, FRONT GEAR	1	1	1	1				
14	1	194516-13760	SHIM T=0.5	4	4	4	4				
15	1	194516-13770	SLEEVE SI455016	2	2	2	2				
16	1	198011-13790	SUPPORT L CMP,KG.PIN	1	1	1	1				
17	2	194313-13790	SEAL TC6Y50 68 12.5	1	1	1	1				
18	2	24104-062064	BALL BEARING	1	1	1	1				
19	1	198011-13890	SUPPORT R CMP,KG.PIN	1	1	1	1				
20	2	194313-13790	SEAL TC6Y50 68 12.5	1	1	1	1				
21	2	24104-062064	BALL BEARING	1	1	1	1				
22	1	194151-36670	PLUG PT02	2	2	2	2				
23	1	22262-000520	CIRCLIP R-52	4	4	4	4				
24	1	22351-080020	SPRING PIN 8X20	4	4	4	4				
25	1	23491-140002	PLUG 14	2	2	2	2				
26	1	24311-000160	O-RING 1A P-16.0	2	2	2	2				
27	1	24321-000750	O-RING 1A G-75.0	2	2	2	2				
28	1	26013-100302	BOLT M10X 30	4	4	4	4				
29	1	26013-100502	BOLT M10X 50	4	4	4	4				

Fig.36. FRONT SHAFT(2) & FRONT SPINDLE

(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

Fig. 36 FRONT SHAFT (2) & FRONT SPINDLE



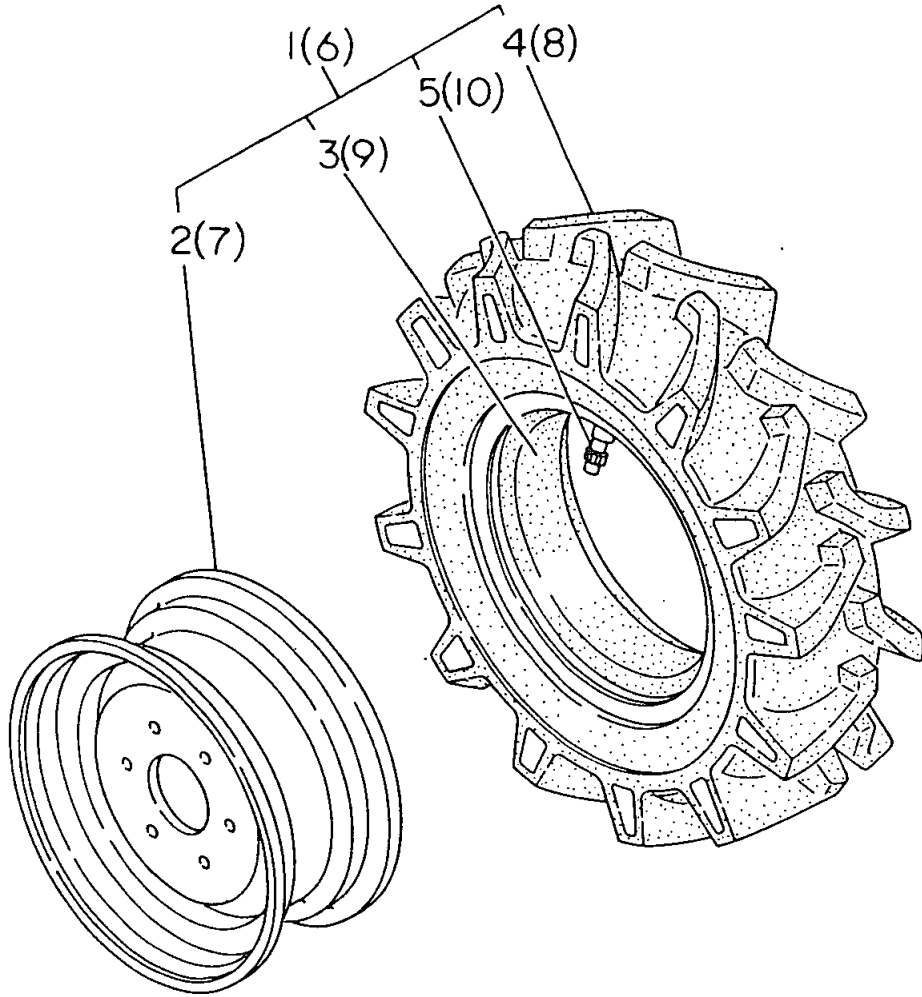
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198011-13850	SHAFT (2ND), FRONT	2	2	2	2				
2	1	194447-13860	BALL BEARING	2	2	2	2				
3	1	194516-13940	GEAR, FRONT DRIVE	2	2	2	2				
4	1	194516-13950	PINION, FINAL	2	2	2	2				
5	1	24104-062064	BALL BEARING	2	2	2	2				
6	1	194556-12620	BOLT 14X24	4	4	4	4				
7	1	194556-12630	WASHER 14,SPRING	4	4	4	4				
8	1	194556-12640	NUT 14	4	4	4	4				
9	1	194278-12650	BOLT W/WASHER M14X25	8	8	8	8				
10	1	198331-14100	SPINDLE, FRONT	2	2	2	2				
11	1	194516-14120	GEAR, FINAL	2	2	2	2				
12	1	198331-14130	CASE,FRONT BEARING	2	2	2	2				
13	1	194447-14140	SEAL TC6Y 57 75 12	2	2	2	2				
14	1	194447-14150	SHIM T=0.1	4	4	4	4				
15	1	194447-14160	SHIM T=0.3	2	2	2	2				
16	1	194447-14170	SHIM T=0.5	2	2	2	2				
17	1	194447-14180	SLEEVE SL525718	2	2	2	2				
18	1	22242-000340	CIRCLIP 34	2	2	2	2				
19	1	22242-000500	CIRCLIP 50	2	2	2	2				
20	1	22252-000750	CIRCLIP 75	4	4	4	4				
21	1	24101-060094	BALL BEARING	2	2	2	2				
22	1	24101-060104	BALL BEARING	2	2	2	2				
23	1	24321-001400	O-RING 1A G-140.0	2	2	2	2				
24	1	26013-100302	BOLT M10X 30	12	12	12	12				

Fig.37. FRONT WHEEL TIRE (L)

(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

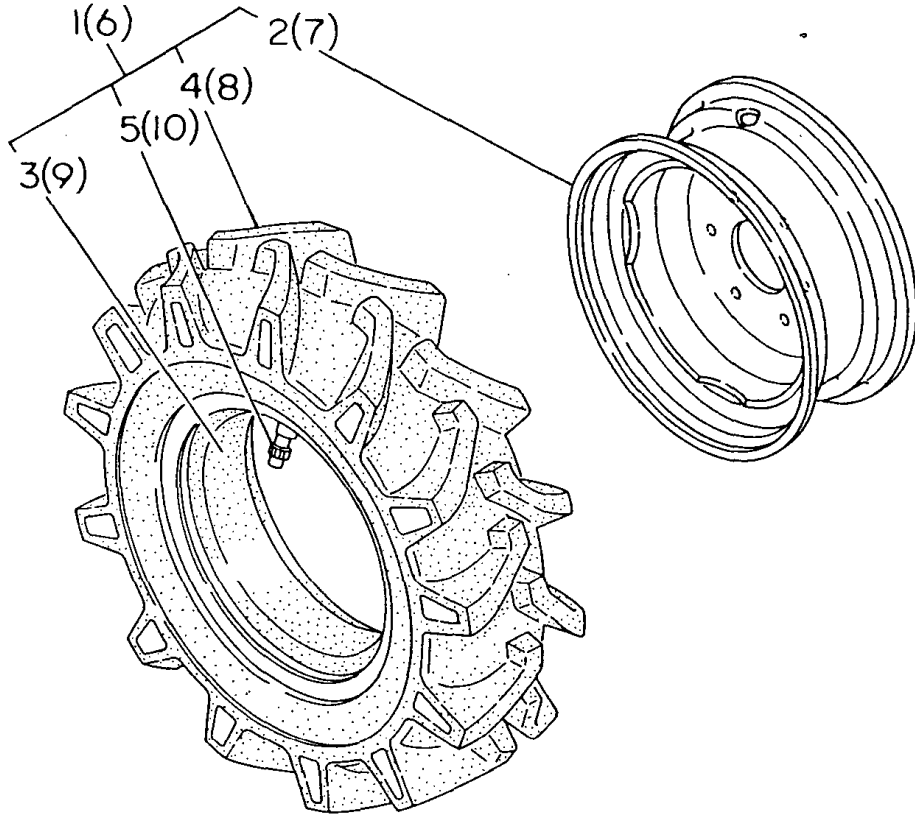
Fig. 37 FRONT WHEEL TIRE (L)



REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198021-14700	TIRE L KIT,FRONT	1	1						
2	2	198021-14710	WHEEL 4JAX12WDC	1	1						
3	2	194526-14810	TUBE	1	1						
4	2	194526-14820	TIRE 6.00-12	1	1						
5	2	194190-34730	HOUSING,CORE	1	1						
6	1	198031-14700	TIRE L KIT,FRONT			1	1				
7	2	198031-14710	WHEEL 5JAX14WDC			1	1				
8	2	194166-14810	TIRE 6-14			1	1				
9	2	194166-14820	TUBE			1	1				
10	2	194190-34730	HOUSING,CORE			1	1				

Fig.38. FRONT WHEEL TIRE (R)

# Fig. 38 FRONT WHEEL TIRE (R)



OCT10-G24400 38. FRONT WHEEL TIRE (R)

(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

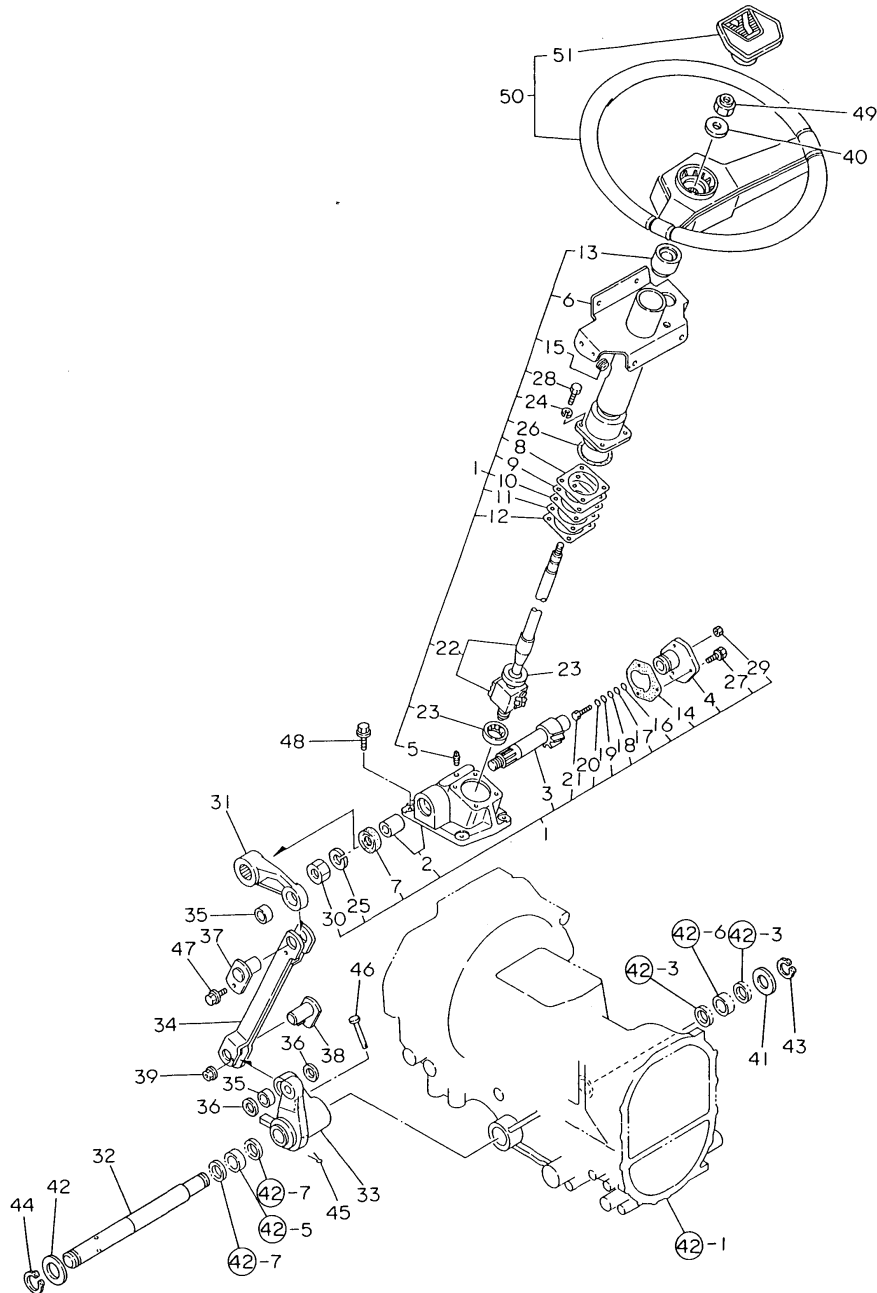
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198021-14800	FRONT TIRE R.H KIT	1	1						
2	2	198021-14710	WHEEL 4JAX12WDC	1	1						
3	2	194526-14810	TUBE	1	1						
4	2	194526-14820	TIRE 6.00-12	1	1						
5	2	194190-34730	HOUSING,CORE	1	1						
6	1	198031-14800	FRONT TIRE R.H KIT			1	1				
7	2	198031-14710	WHEEL 5JAX14WDC			1	1				
8	2	194166-14810	TIRE 6-14			1	1				
9	2	194166-14820	TUBE			1	1				
10	2	194190-34730	HOUSING,CORE			1	1				

Fig.39. STEERING GEAR

(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

Fig. 39 STEERING GEAR



REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198010-15100	GEAR COMP.,STEERING	1	1	1	1				
2	2	194940-15110	BOX,GEAR	1	1	1	1				
3	2	194262-15140	SHAFT,SECTOR	1	1	1	1				
4	2	194262-15150	COVER ASSY, SIDE	1	1	1	1				
5	2	194130-15170	PLUG PT1/4	1	1	1	1				
6	2	198010-15210	CONTROL COLUMN	1	1	1	1				
7	2	194262-15220	SEAL TV 223508, OIL	1	1	1	1				
8	2	194750-15250	SHIM T=0.05	1	1	1	1				
9	2	194750-15260	SHIM T=0.07	1	1	1	1				
10	2	194750-15270	SHIM T=0.08	1	1	1	1				
11	2	194750-15280	SHIM T=0.1	1	1	1	1				
12	2	194630-15290	SHIM T=0.2	1	1	1	1				
13	2	194202-15310	BUSH, COLUMN	1	1	1	1				
14	2	194262-15330	GASKET, SIDE COVER	1	1	1	1				
15	2	194440-15340	PLUG, BREATHER	1	1	1	1				
16	2	194262-15420	SHIM (A) (T=1.525)	1	1	1	1				
17	2	194262-15430	SHIM (B) (T=1.555)	1	1	1	1				
18	2	194262-15440	SHIM (C) (T=1.585)	1	1	1	1				
19	2	194262-15450	SHIM (D) (T=1.615)	1	1	1	1				
20	2	194262-15460	SHIM (E) (T=1.645)	1	1	1	1				
21	2	194262-15470	SCREW, ADJUSTING	1	1	1	1				
22	2	198010-15500	NUT ASSY, BALL	1	1	1	1				
23	2	194262-15520	BEARING	2	2	2	2				
24	2	22217-080000	SPRING WASHER 8	4	4	4	4				
25	2	22217-160000	SPRING WASHER 16	1	1	1	1				
26	2	24321-000500	O-RING 1A G-50.0	1	1	1	1				
27	2	26013-080202	BOLT W/WASHER M8X20	3	3	3	3				
28	2	26116-080202	BOLT M 8X 20 PLATED	4	4	4	4				
29	2	26716-080002	NUT M 8	1	1	1	1				
30	2	26736-160002	NUT M16	1	1	1	1				
31	1	198010-15610	ARM A,PITMAN (49)	1	1	1	1				
32	1	198011-15640	SHAFT,PITMAN	1	1	1	1				
33	1	198011-15651	ARM C,PITMAN (49)	1	1	1	1				
34	1	198011-16100	ROD A,DRAG	1	1	1	1				
35	1	198291-16140	BUSH 25X28X15	2	2	2	2				
36	1	198291-16150	SEAL G253204,OIL	2	2	2	2				
37	1	198011-16180	PIN U,LINK	1	1	1	1				
38	1	198011-16190	PIN D,LINK	1	1	1	1				
39	1	194990-22140	NUT W/WASHER 8	1	1	1	1				
40	1	22137-120000	WASHER 12,POLISHED	1	1	1	1				
41	1	22137-240000	WASHER 24,POLISHED	1	1	1	1				
42	1	22137-300000	WASHER 30	1	1	1	1				
43	1	22242-000250	CIRCLIP 25S	1	1	1	1				
44	1	22242-000300	CIRCLIP 30	1	1	1	1				
45	1	22417-200300	COTTER PIN 2.0X30	1	1	1	1				
46	1	22487-080600	PIN 8X 60	1	1	1	1				
47	1	26106-080122	BOLT M 8X 12 PLATED	1	1	1	1				
48	1	26106-100252	BOLT M10X 25 PLATED	4	4	4	4				
49	1	26356-120002	U-NUT M12	1	1	1	1				
50	1	194940-15800	WHEEL COMP.,STEERING	1	1	1	1				
51	2	194940-15870	CAP,WHEEL	1	1	1	1				

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

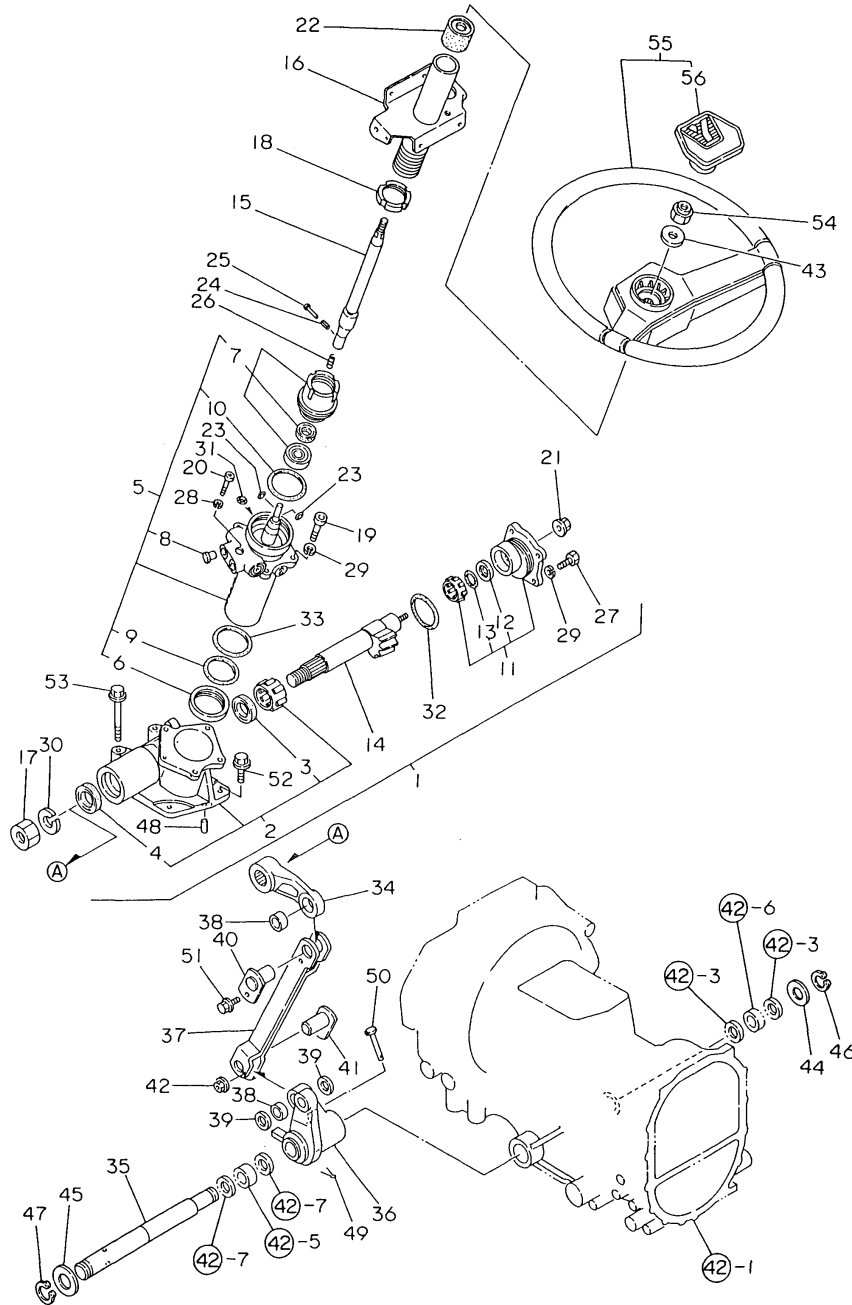


Fig.40. STEERING GEAR(POWER STEERING)

(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

Fig. 40 STEERING GEAR (POWER STEERING)



REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198011-15100	GEAR COMP.,STEERING		1		1				
2	2	198291-15110	CASE COMPL.,GEAR		1		1				
3	3	194516-15210	U-GASKET		1		1				
4	3	194516-15220	SEAL, OIL		1		1				
5	2	194516-15120	CASE ASSY		1		1				
6	3	194516-15240	SEAL		1		1				
7	3	194556-15310	PLUG		1		1				
8	3	194556-15410	PLUG		2		2				
9	3	24341-000530	O-RING 1A S-53.0		1		1				
10	3	24341-000560	O-RING 1A S-56.0		1		1				
11	2	194516-15130	COVER ASSY, SIDE		1		1				
12	3	194516-15230	SEAL		1		1				
13	3	24341-000300	O-RING 1A S-30.0		1		1				
14	2	198291-15140	SHAFT COMP.,SECTOR		1		1				
15	2	198011-15150	SHAFT ASSY, STEERING		1		1				
16	2	198011-15160	COLUMN ASSY,STEERING		1		1				
17	2	194516-15250	NUT		1		1				
18	2	194516-15260	LOCK NUT		1		1				
19	2	194556-15360	BOLT		4		4				
20	2	194556-15370	BOLT		1		1				
21	2	194556-15380	NUT		1		1				
22	2	194327-15410	BUSH, COLUMN		1		1				
23	2	194454-15490	O-RING		2		2				
24	2	194454-15500	SPRING PIN		1		1				
25	2	194454-15510	RIVET		1		1				
26	2	194454-15600	SPRING		1		1				
27	2	194454-15610	BOLT		1		1				
28	2	22217-060000	SPRING WASHER 6		1		1				
29	2	22217-100000	SPRING WASHER 10		8		8				
30	2	22217-220000	SPRING WASHER 22		1		1				
31	2	24311-000080	O-RING 1A P-8.0		1		1				
32	2	24321-000600	O-RING 1A G-60.0		1		1				
33	2	24341-000560	O-RING 1A S-56.0		1		1				
34	1	198011-15610	ARM A,PITMAN(PST(49)		1		1				
35	1	198011-15640	SHAFT,PITMAN		1		1				
36	1	198011-15651	ARM C,PITMAN (49)		1		1				
37	1	198011-16100	ROD A,DRAG		1		1				
38	1	198291-16140	BUSH 25X28X15		2		2				
39	1	198291-16150	SEAL G253204,OIL		2		2				
40	1	198011-16180	PIN U,LINK		1		1				
41	1	198011-16190	PIN D,LINK		1		1				
42	1	194990-22140	NUT W/WASHER 8		1		1				
43	1	22137-120000	WASHER 12,POLISHED		1		1				
44	1	22137-240000	WASHER 24,POLISHED		1		1				
45	1	22137-300000	WASHER 30		1		1				
46	1	22242-000250	CIRCLIP 25S		1		1				
47	1	22242-000300	CIRCLIP 30		1		1				
48	1	22312-100180	PARALLEL PIN 10X 18		2		2				
49	1	22417-200300	COTTER PIN 2.0X30		1		1				
50	1	22487-080600	PIN 8X 60		1		1				
51	1	26106-080122	BOLT M 8X 12 PLATED		1		1				

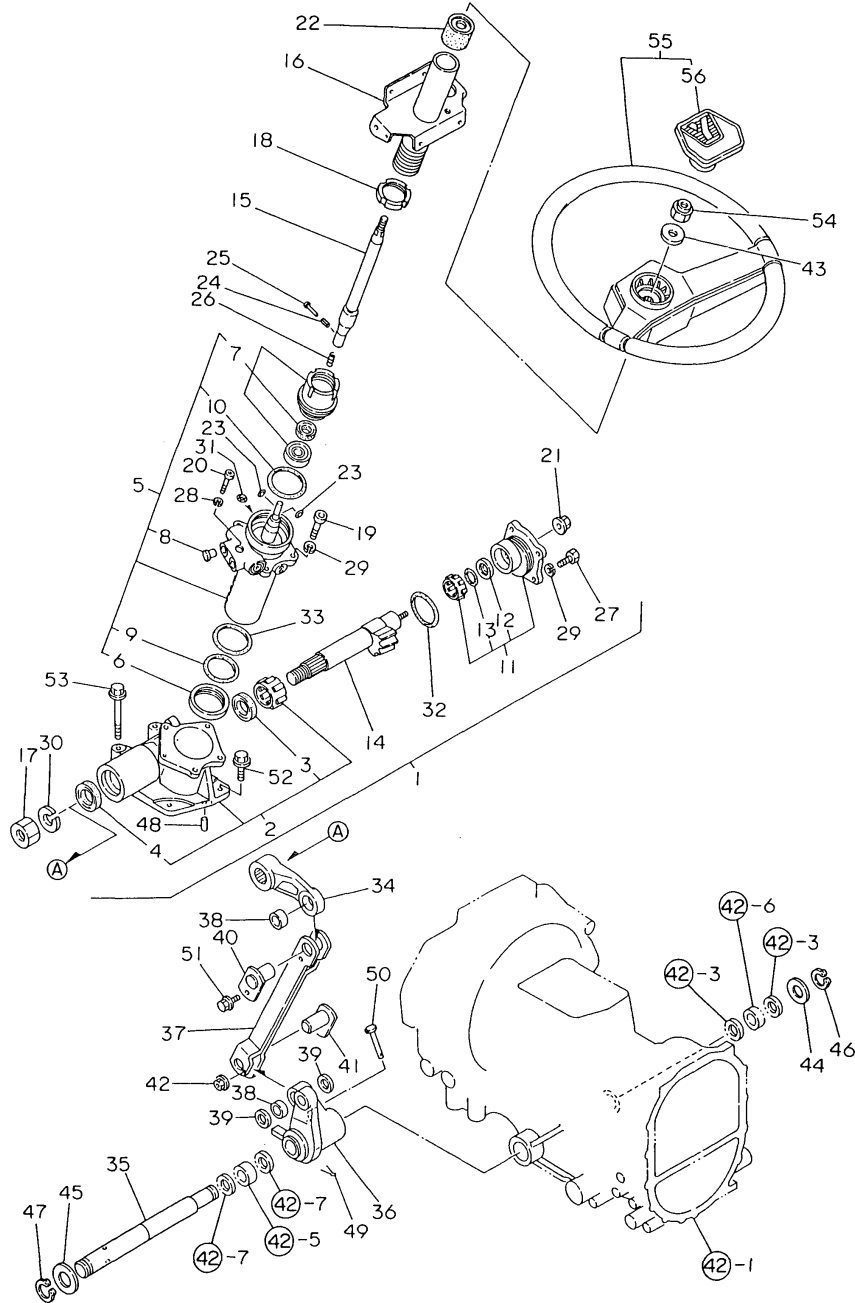
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++ CONTINUE ++

Fig.40. STEERING GEAR(POWER STEERING)

(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

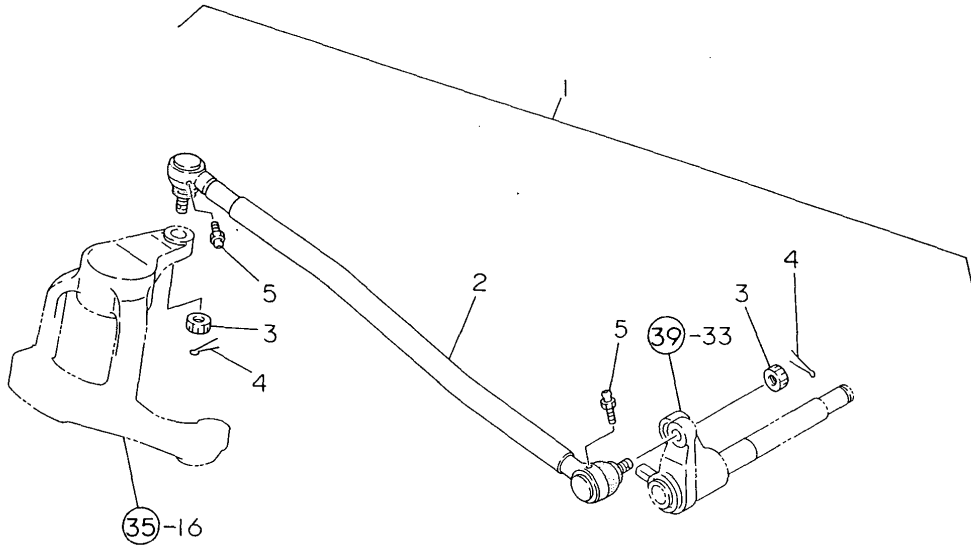
Fig. 40 STEERING GEAR (POWER STEERING)



REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
52	1	26106-100252	BOLT M10X 25 PLATED		2		2				
53	1	26106-100802	BOLT M10X 80 PLATED		2		2				
54	1	26356-120002	U-NUT M12		1		1				
55	1	194940-15800	WHEEL COMP.,STEERING		1		1				
56	2	194940-15870	CAP,WHEEL		1		1				

Fig.41. DRAG-ROD

Fig. 41 DRAG-ROD



OCT10-G24400 41. DRAG-ROD

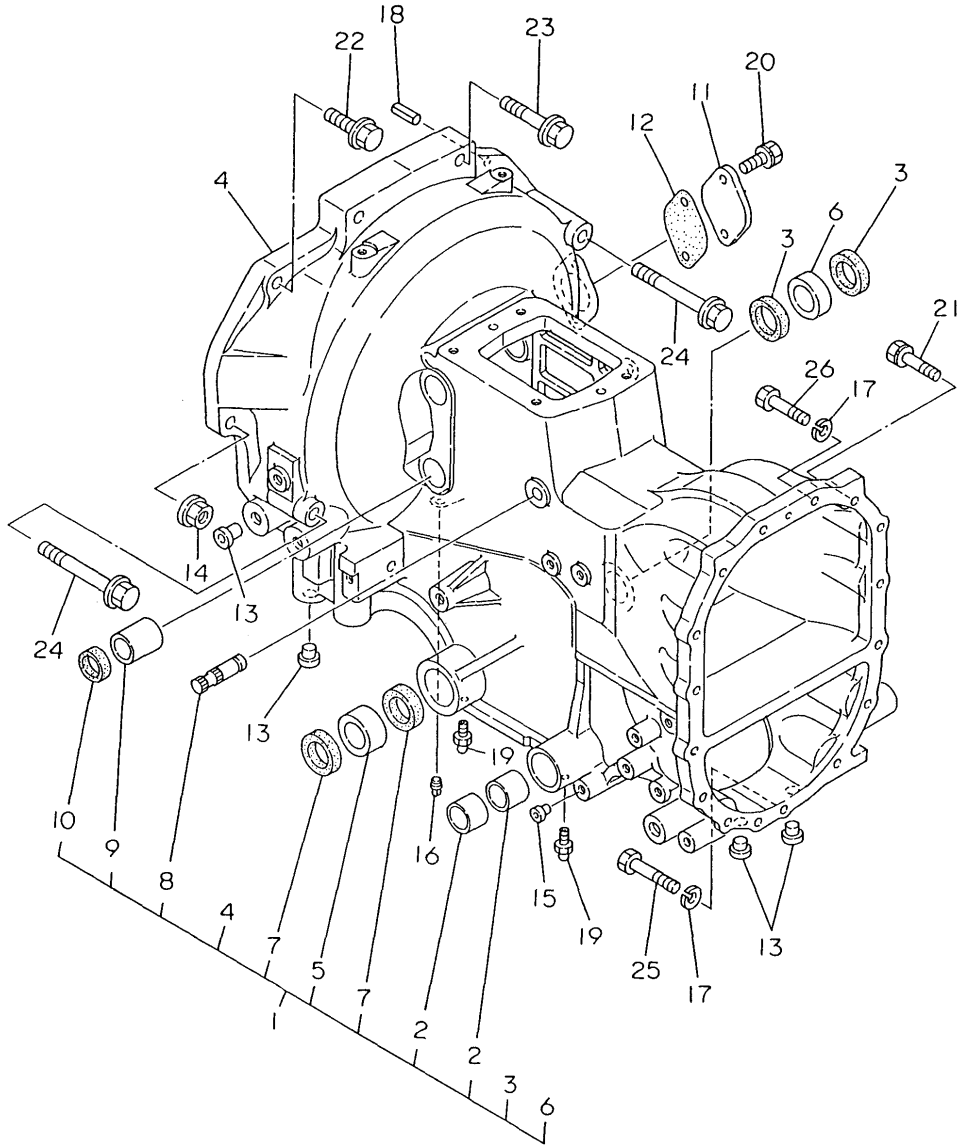
(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198011-16200	ROD COMP.,DRAG	1	1	1	1				
2	2	198011-16250	ROD SUB-COMP.,DRAG	1	1	1	1				
3	2	194730-57241	NUT M12	2	2	2	2				
4	2	22417-300250	COTTER PIN 3.0X 25	2	2	2	2				
5	2	24761-060000	NIPPLE MT6X1, GREASE	2	2	2	2				

Fig.42. CLUTCH HOUSING

Fig. 42 CLUTCH HOUSING



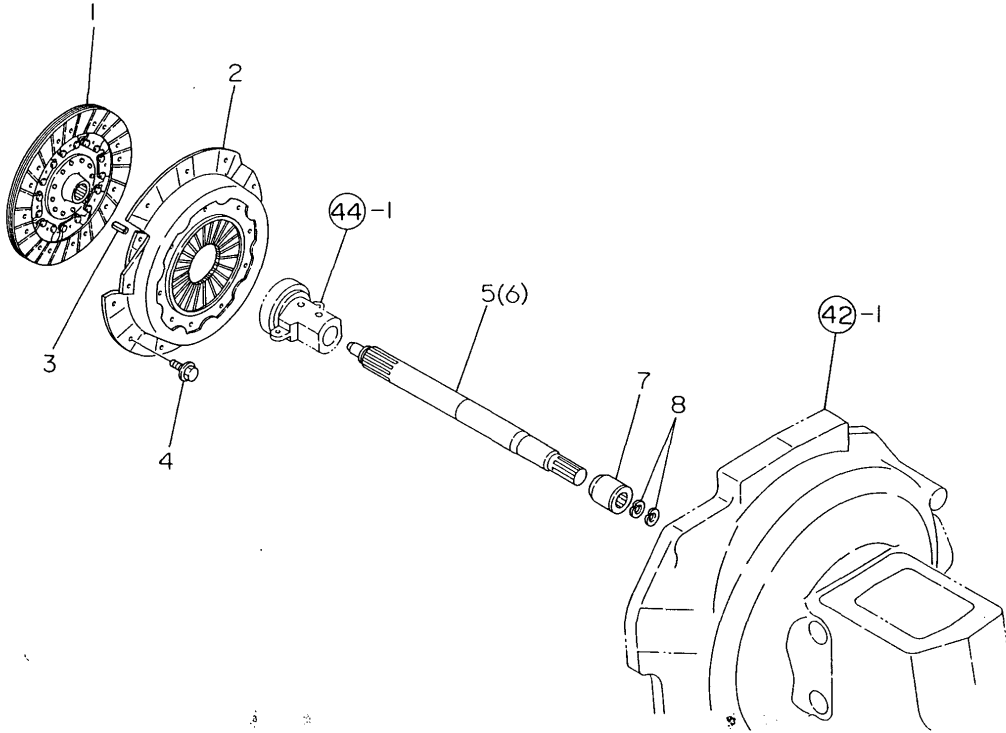
(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198010-21100	HOUSING ASSY, CLUTCH	1	1	1	1				
2	2	194740-06080	BUSH 25X30X18	4	4	4	4				
3	2	198291-16150	SEAL G253204,OIL	2	2	2	2				
4	2	198010-21111	HOUSING,CLUTCH	1	1	1	1				
5	2	198291-21410	BUSH 30X37X20	1	1	1	1				
6	2	198291-21420	BUSH 25X32X20	1	1	1	1				
7	2	198291-21430	SEAL G303704,OIL	2	2	2	2				
8	2	194150-22250	PIN, HOOK	2	2	2	2				
9	2	194680-22280	BUSH 20X26X22	2	2	2	2				
10	2	194680-22290	SEAL G202604,OIL	2	2	2	2				
11	1	194146-21150	COVER, SIDE	1	1	1	1				
12	1	194146-21160	GASKET, SIDE COVER	1	1	1	1				
13	1	194150-21910	PLUG 11.2	10	10	10	10				
14	1	194990-22150	NUT W/WASHER 10	1	1	1	1				
15	1	194275-27750	PLUG 7.8	4	4	4	4				
16	1	194151-36670	PLUG PT02	1	1	1	1				
17	1	22217-080000	SPRING WASHER 8	5	5	5	5				
18	1	22351-080018	SPRING PIN 8X18	2	2	2	2				
19	1	24761-010000	NIPPLE M6F, GREASE	2	2	2	2				
20	1	26013-080202	BOLT W/WASHER M8X20	2	2	2	2				
21	1	26013-080302	BOLT M 8X 30	10	10	10	10				
22	1	26106-100352	BOLT M10X 35 PLATED	1	1	1	1				
23	1	26106-100552	BOLT M10X 55 PLATED	2	2	2	2				
24	1	26106-100952	BOLT M10X 95 PLATED	5	5	5	5				
25	1	26116-080502	BOLT M 8X 50 PLATED	3	3	3	3				
26	1	26116-080552	BOLT 8X55	2	2	2	2				

Fig.43. SINGLE CLUTCH & CLUTCH SHAFT

Fig. 43 SINGLE CLUTCH & CLUTCH SHAFT



OCT10-G24400 43. SINGLE CLUTCH & CLUTCH SHAFT

(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

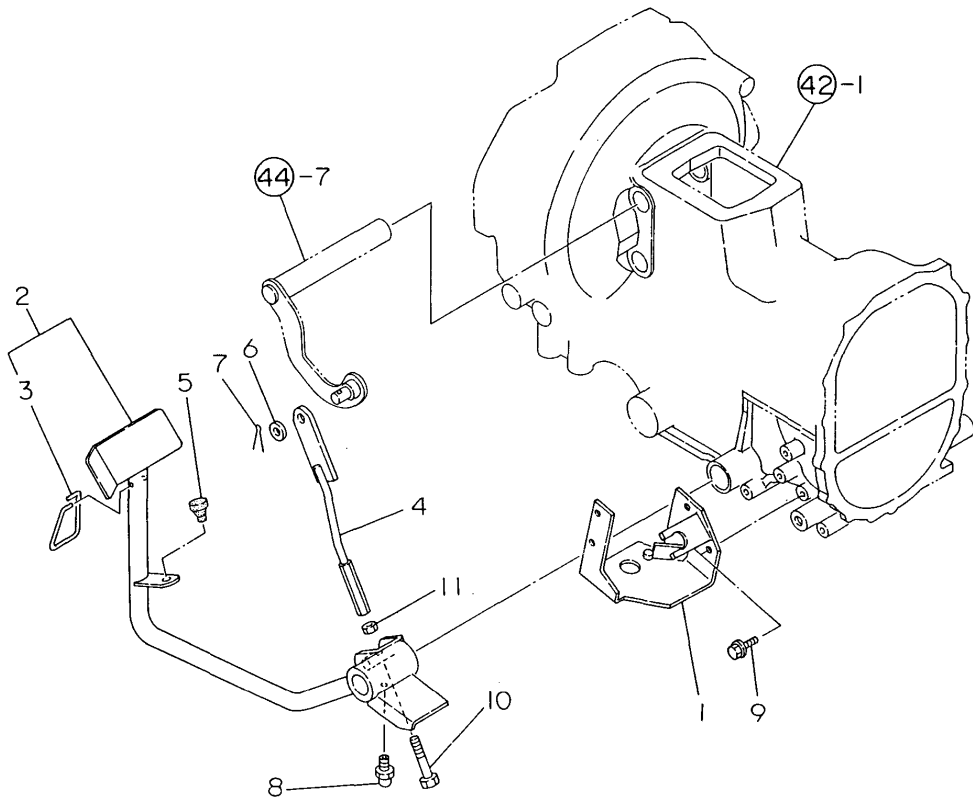
(D)=F220DXP-P  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194535-21401	DISC, CLUTCH	1	1	1	1				
2	1	794150-21700	PLATE, PRESSURE	1	1	1	1				
3	1	22351-080018	SPRING PIN 8X18	3	3	3	3				
4	1	26106-080162	BOLT M 8X 16 PLATED	6	6	6	6				
5	1	198010-22110	SHAFT, MAIN DRIVE		1		1				
6	1	198015-22110	SHAFT, MAIN DRIVE	1		1					
7	1	194190-26180	JOINT	1	1	1	1				
8	1	22252-000170	CIRCLIP 17	2	2	2	2				



Fig.45. CLUTCH PEDAL

Fig. 45 CLUTCH PEDAL



OCT10-G24400 45. CLUTCH PEDAL

(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

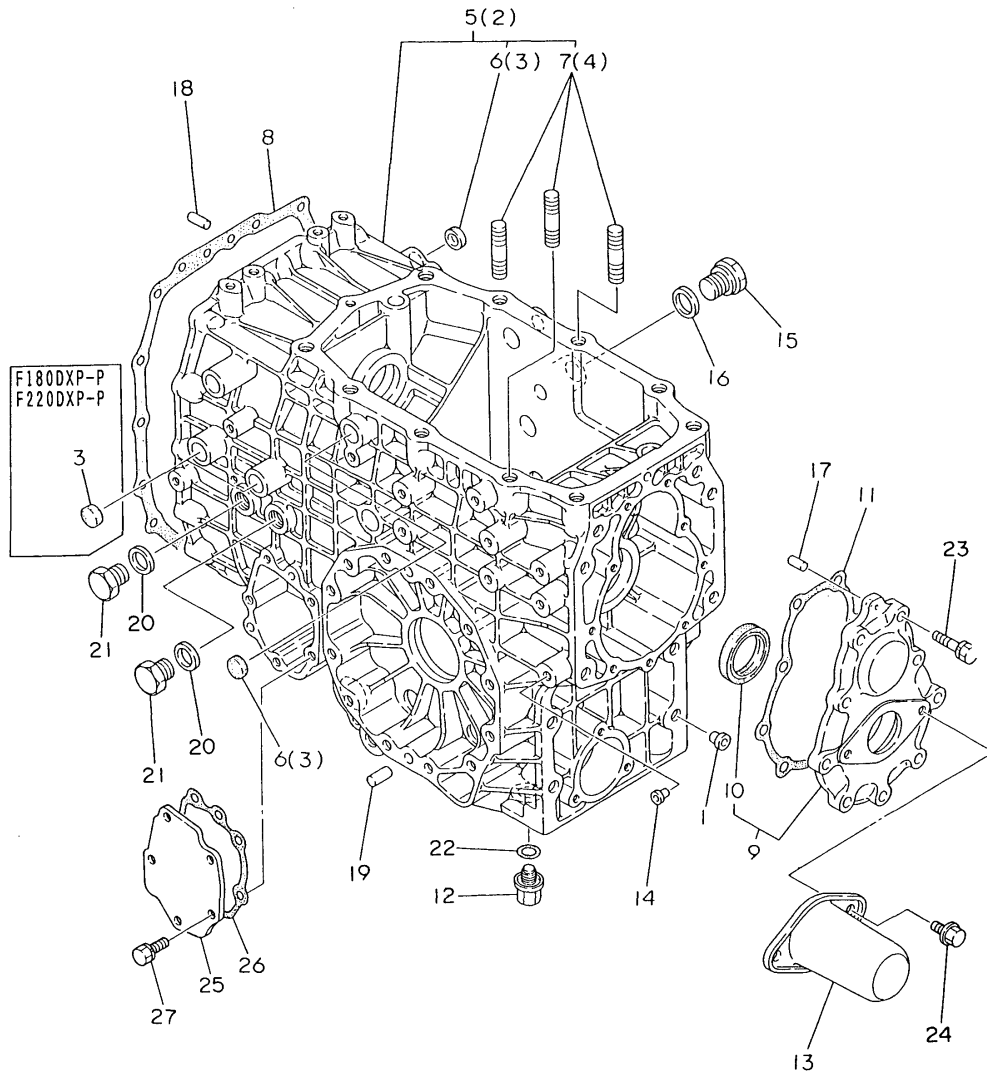
REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198010-21350	STOPER, PEDAL	1	1	1	1				
2	1	198010-22400	PEDAL KIT,CLUTCH	1	1	1	1				
3	2	198010-22460	LOCK,CLUTCH	1	1	1	1				
4	1	198010-22550	ROD, CLUTCH	1	1	1	1				
5	1	194330-62530	STOPPER, PEDAL	1	1	1	1				
6	1	22137-100000	WASHER 10,POLISHED	1	1	1	1				
7	1	22417-200300	COTTER PIN 2.0X30	1	1	1	1				
8	1	24761-010000	NIPPLE M6F, GREASE	1	1	1	1				
9	1	26106-080162	BOLT M 8X 16 PLATED	3	3	3	3				
10	1	26116-080754	BOLT M 8X 75 PLATED	1	1	1	1				
11	1	26716-080002	NUT M 8	1	1	1	1				

Fig.46. TRANSMISSION CASE

(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

Fig. 46 TRANSMISSION CASE

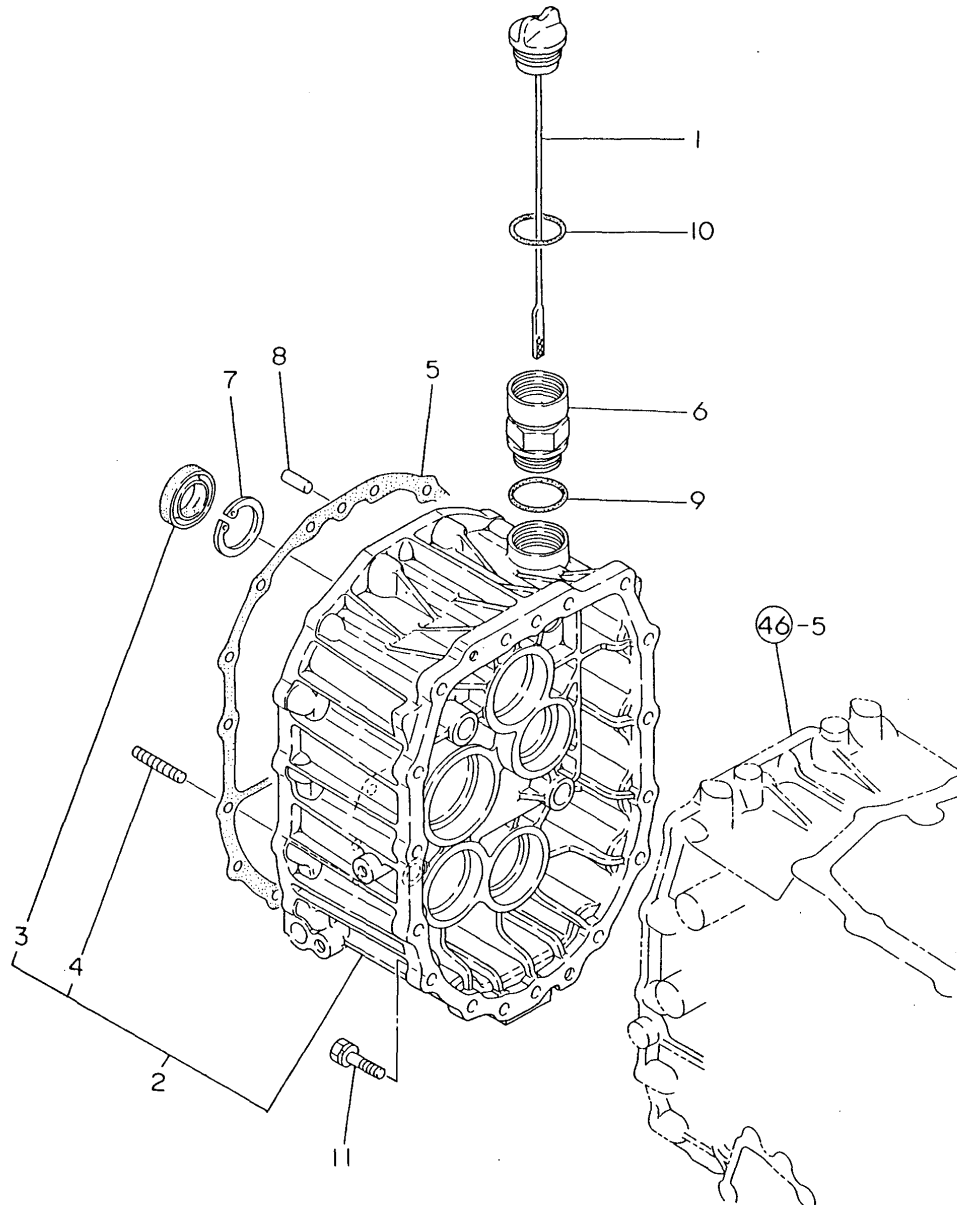


REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194150-21910	PLUG 11.2	4	4	4	4				
2	1	198330-24101	CASE COMP.,TRANSMIS.		1		1				
3	2	194197-21170	PLUG 17,BORE		4		4				
4	2	26216-120352	STUD M12X 35 PLATED		3		3				
5	1	198335-24101	CASE COMP.,TRANSMIS.	1		1					
6	2	194197-21170	PLUG 17,BORE	2		2					
7	2	26216-120352	STUD M12X 35 PLATED	3		3					
8	1	194515-24120	GASKET, MISSION CASE	1	1	1	1				
9	1	198330-24140	COVER CMP,TRANSM.RR.	1	1	1	1				
10	2	194197-24370	SEAL TC30 50 8, OIL	1	1	1	1				
11	1	194515-24160	GASKET, REAR COVER	1	1	1	1				
12	1	194515-24250	PLUG, DRAIN	1	1	1	1				
13	1	198290-26860	COVER,P.T.O.SHAFT	1	1	1	1				
14	1	194145-31750	PLUG 9.5	3	3	3	3				
15	1	194312-46750	PLUG PF3/8	1	1	1	1				
16	1	194555-77910	GASKET	1	1	1	1				
17	1	22312-080140	PIN 8X14,STRAIGHT	1	1	1	1				
18	1	22312-080200	PARALLEL PIN 8X20	2	2	2	2				
19	1	22312-100200	PARALLEL PIN 10X20	4	4	4	4				
20	1	23414-160021	GASKET 16	2	2	2	2				
21	1	23887-160002	PLUG 16,HEX.	2	2	2	2				
22	1	24311-000160	O-RING 1A P-16.0	1	1	1	1				
23	1	26013-080302	BOLT M 8X 30	9	9	9	9				
24	1	26106-080122	BOLT M 8X 12 PLATED	2	2	2	2				
25	1	194515-24180	COVER, MISSION SIDE	1	1	1	1				
26	1	194515-24190	GASKET, SIDE COVER	1	1	1	1				
27	1	26013-080202	BOLT W/WASHER M8X20	5	5	5	5				



Fig.47. CENTER PLATE

Fig. 47 CENTER PLATE



OCT10-G24400 47. CENTER PLATE

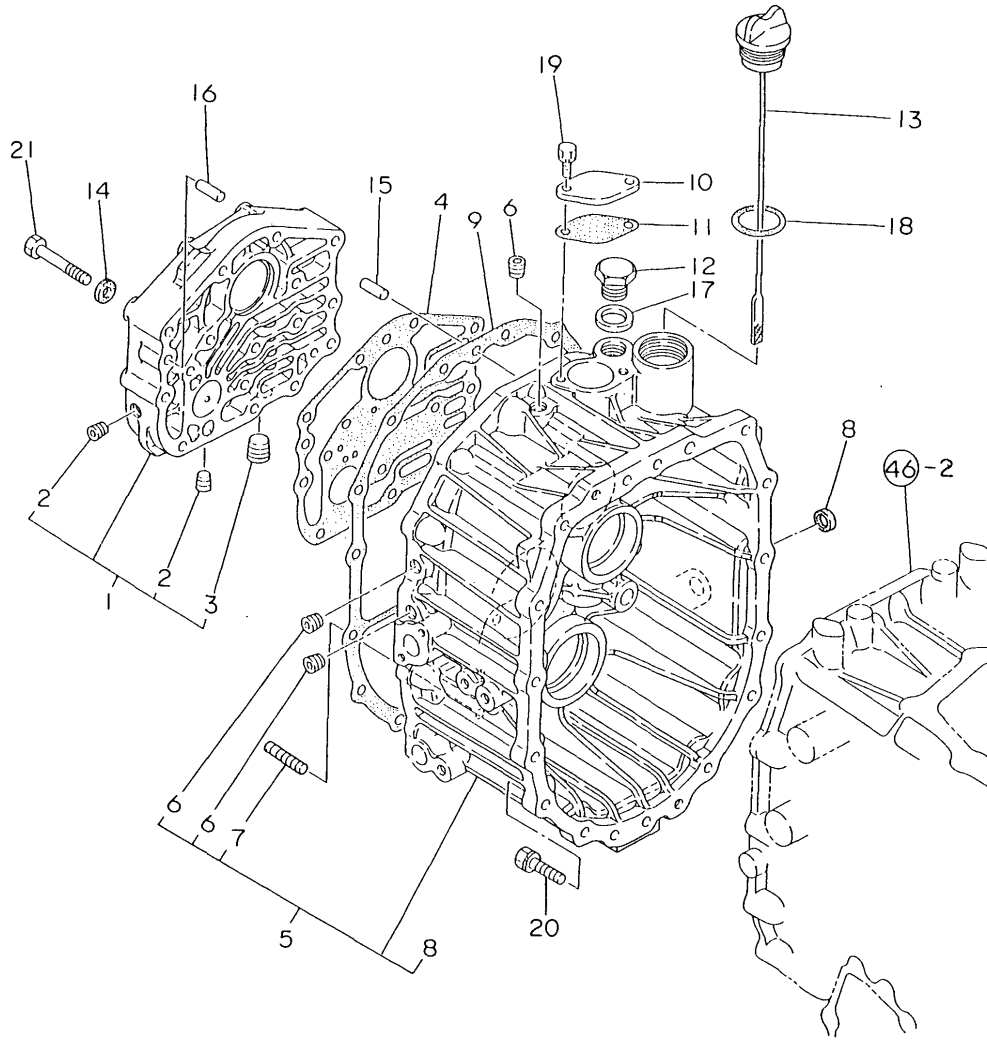
(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R	
				(A)	(B)	(C)	(D)	(E)	(F)			
1	1	194150-24290	DIPSTICK 33X184	1		1						
2	1	194566-24300	PLATE ASSY, CENTER	1		1						
3	2	24423-254208	SEAL TC 25 42 8, OIL	1		1						
4	2	26226-080302	STUD M 8X 30 PLATED	2		2						
5	1	194515-24320	GASKET, PLATE	1		1						
6	1	194215-24960	PIPE	1		1						
7	1	22252-000420	CIRCLIP 42	1		1						
8	1	22312-080200	PARALLEL PIN 8X20	2		2						
9	1	24321-000300	O-RING G30	1		1						
10	1	24351-020300	O-RING 1A 2030	1		1						
11	1	26013-080302	BOLT M 8X 30	15		15						

Fig.48. CENTER PLATE(POWER SHIFT)

Fig. 48 CENTER PLATE (POWER SHIFT)



OCT10-G24400 48. CENTER PLATE(POWER SHIFT)

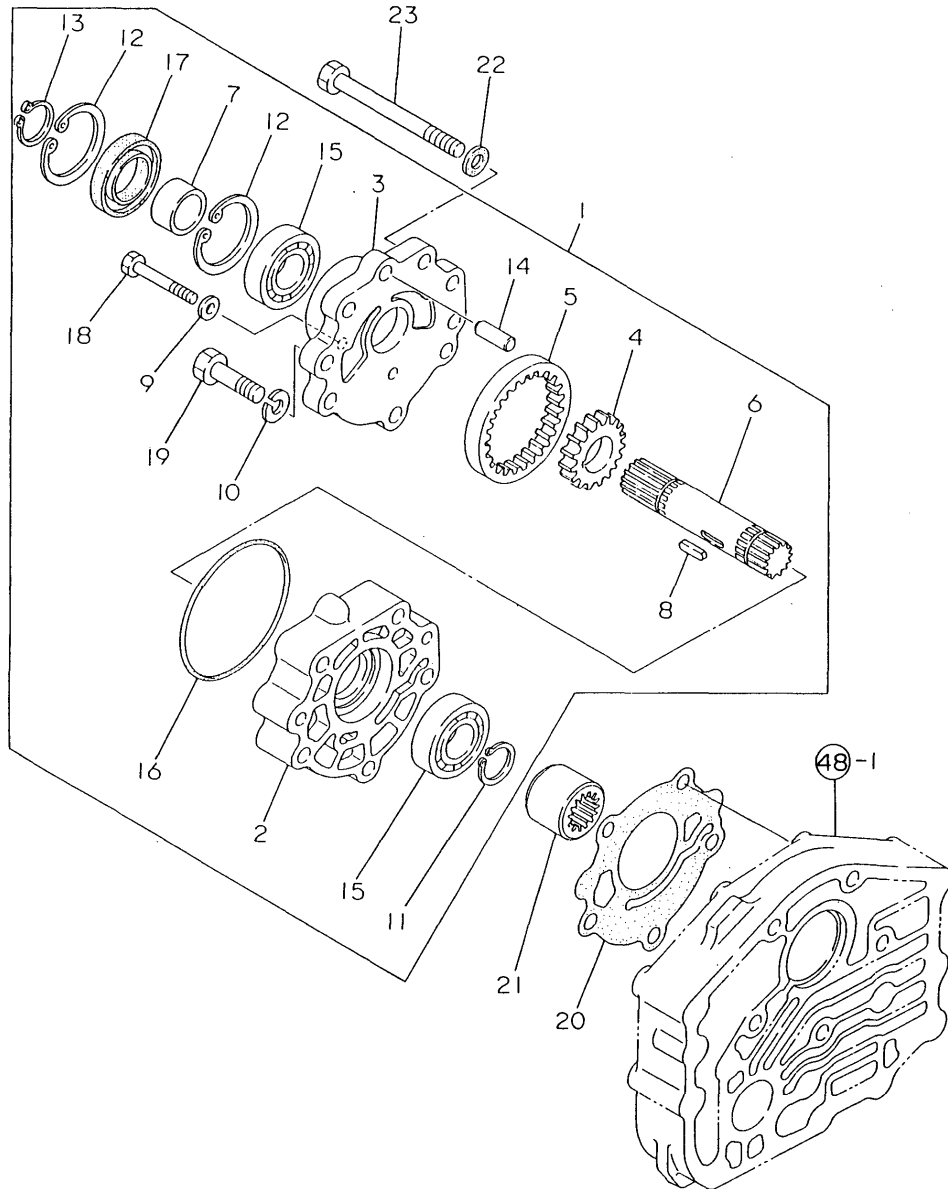
(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194515-24200	PLATE, OIL LINE		1		1				
2	2	23871-010000	PLUG PT1/8,SCREW		2		2				
3	2	23871-030000	PLUG PT3/8,SCREW		1		1				
4	1	194515-24220	GASKET, OIL PLATE		1		1				
5	1	194516-24300	PLATE ASSY, CENTER		1		1				
6	2	23871-010000	PLUG PT1/8,SCREW		3		3				
7	2	26226-080302	STUD M 8X 30 PLATED		2		2				
8	2	27260-150000	PLUG 15,BORE		1		1				
9	1	194515-24320	GASKET, PLATE		1		1				
10	1	194515-24370	PLATE,END		1		1				
11	1	194515-24390	GASKET, PLATE		1		1				
12	1	194310-24660	PLUG M18		1		1				
13	1	194215-24950	DIPSTICK 33X230		1		1				
14	1	22190-080000	SEAL WASHER 8(BOLT)		8		8				
15	1	22312-080200	PARALLEL PIN 8X20		2		2				
16	1	22312-080200	PARALLEL PIN 8X20		1		1				
17	1	23414-180023	GASKET 18		1		1				
18	1	24351-020300	O-RING 1A 2030		1		1				
19	1	26013-060142	BOLT M 6X 14		2		2				
20	1	26013-080302	BOLT M 8X 30		15		15				
21	1	26116-080502	BOLT M 8X 50 PLATED		8		8				

Fig.49. POWER SHIFT PUMP

Fig. 49 POWER SHIFT PUMP



(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

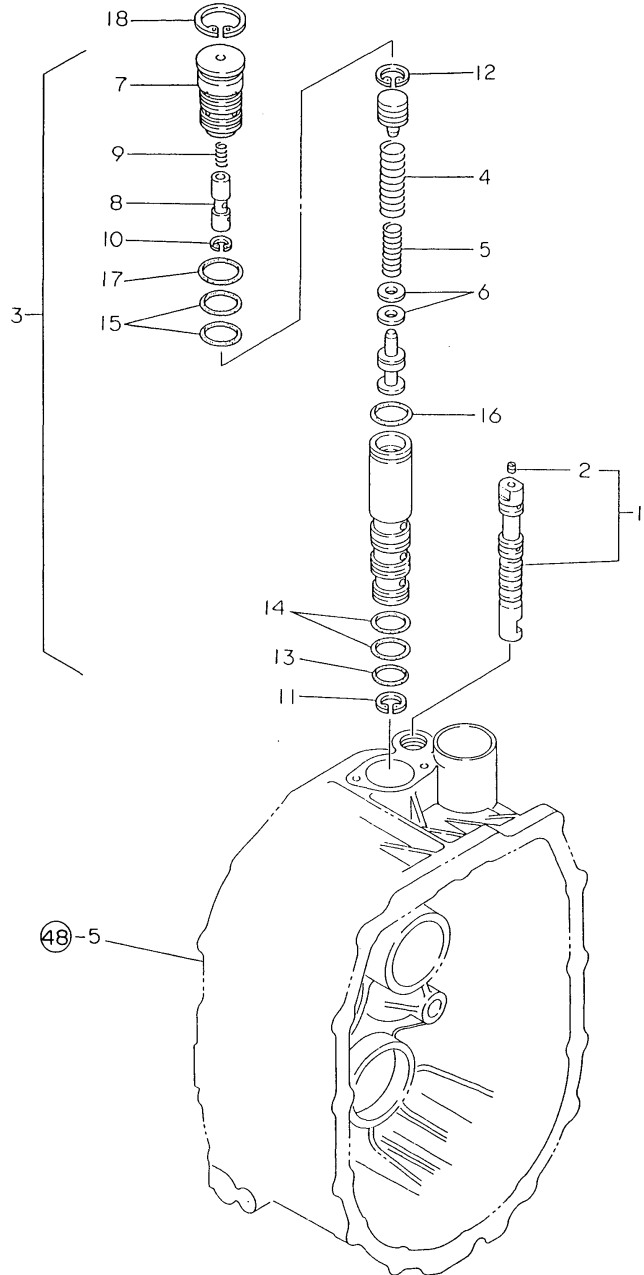
REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194515-24400	PUMP ASSY, P. SHIFT		1		1				
2	2	194515-24410	HOUSING		1		1				
3	2	194515-24430	COVER, HOUSING		1		1				
4	2	194515-24440	GEAR, DRIVE		1		1				
5	2	194515-24450	GEAR, INTERNAL		1		1				
6	2	194515-24460	SHAFT, DRIVE		1		1				
7	2	194515-24470	SLEEVE 20X25X13		1		1				
8	2	194515-24490	KEY 4X4X13		1		1				
9	2	22190-060000	SEAL WASHER 6(BOLT)		1		1				
10	2	22217-080000	SPRING WASHER 8		2		2				
11	2	22242-000200	CIRCLIP 20		1		1				
12	2	22252-000420	CIRCLIP 42		2		2				
13	2	22292-000200	CIRCLIP S-20		1		1				
14	2	22312-080200	PARALLEL PIN 8X20		2		2				
15	2	24101-060044	BALL BEARING #6004		2		2				
16	2	24341-000750	O-RING 1A S-75.0		1		1				
17	2	24423-254208	SEAL TC 25 42 8, OIL		1		1				
18	2	26116-060402	BOLT M 6X 40 PLATED		1		1				
19	2	26116-080302	BOLT 8X30		2		2				
20	1	194515-24420	GASKET, PUMP		1		1				
21	1	194310-25050	COUPLING		1		1				
22	1	22190-080000	SEAL WASHER 8(BOLT)		5		5				
23	1	26116-080852	BOLT M 8X 85 PLATED		5		5				

Fig.50. REGULATOR

(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

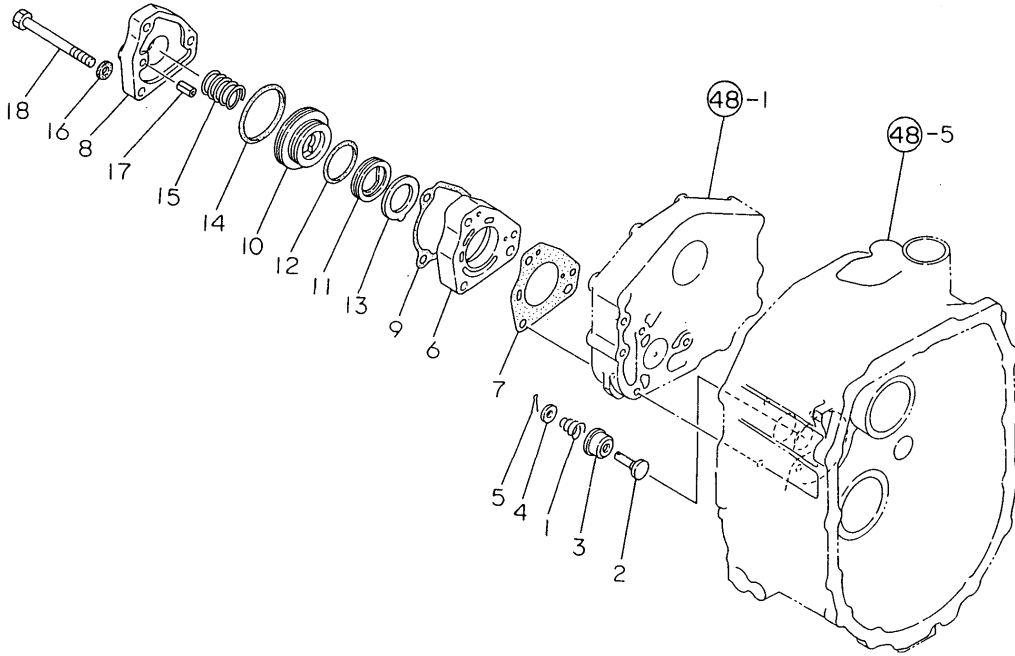
Fig. 50 REGULATOR



REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R	
				(A)	(B)	(C)	(D)	(E)	(F)			
1	1	194515-24500	SPOOL ASSY, VALVE		1		1					
2	2	26979-050052	SCREW M 5X 5		1		1					
3	1	194850-24630	VALVE ASSY, DRV		1		1					
4	2	194555-24610	SPRING, RELEASE		1		1					
5	2	194555-24620	SPRING, RELEASE		1		1					
6	2	194800-24620	SHIM T=0.5		2		2					
7	2	194555-24650	SLEEVE(OV		1		1					
8	2	194800-24662	VALVE, OPEN		1		1					
9	2	194555-24670	SPRING, RETURN		1		1					
10	2	22252-000120	CIRCLIP 12		1		1					
11	2	22252-000180	CIRCLIP 18		1		1					
12	2	22252-000200	CIRCLIP 20		1		1					
13	2	24341-000220	O-RING 1A S-22.0		1		1					
14	2	24341-000224	O-RING 1A S-22.4		2		2					
15	2	24341-000240	O-RING 1A S-24.0		2		2					
16	2	24341-000240	O-RING 1A S-24.0		1		1					
17	2	24341-000260	O-RING 1A S-26.0		1		1					
18	1	22252-000320	CIRCLIP 32		1		1					

Fig.51. SECOND RELIEF & SEAL CASE

Fig. 51 SECOND RELIEF & SEAL CASE



OCT10-G24400 51. SECOND RELIEF & SEAL CASE

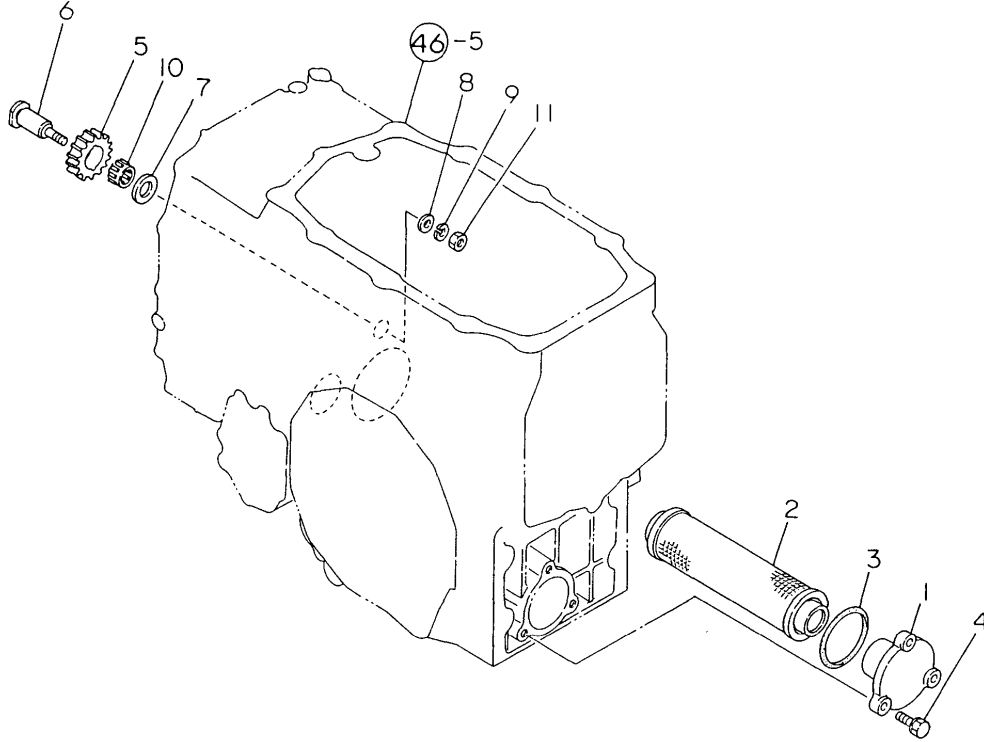
(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R	
				(A)	(B)	(C)	(D)	(E)	(F)			
1	1	194310-24770	SPRING		1		1					
2	1	1E6190-55660	VALVE, 2ND RELIEF		1		1					
3	1	1E6190-55710	SEAT, 2ND RELIEF		1		1					
4	1	22117-060000	WASHER 6		1		1					
5	1	22417-200100	COTTER PIN 2.0X10		1		1					
6	1	194515-24810	CASE, SEAL		1		1					
7	1	194515-24820	GASKET, SEAL CASE		1		1					
8	1	194515-24830	COVER, SEAL CASE		1		1					
9	1	194515-24840	GASKET, COVER		1		1					
10	1	194515-24850	PISTON		1		1					
11	1	194515-24861	BRAKE 42, NEUTRAL		1		1					
12	1	194420-24870	O-RING 2037		1		1					
13	1	194515-24870	PLATE 42, BRAKE		1		1					
14	1	194420-24880	O-RING 2053		1		1					
15	1	194515-24890	SPRING, NEUTRAL BRAKE		1		1					
16	1	22190-080000	SEAL WASHER 8(BOLT)		3		3					
17	1	22351-080016	SPRING PIN 8X16		1		1					
18	1	26116-080852	BOLT M 8X 85 PLATED		3		3					

Fig.52. OIL STRAINER & REVERSE SHAFT

Fig. 52 OIL STRAINER & REVERSE SHAFT



(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

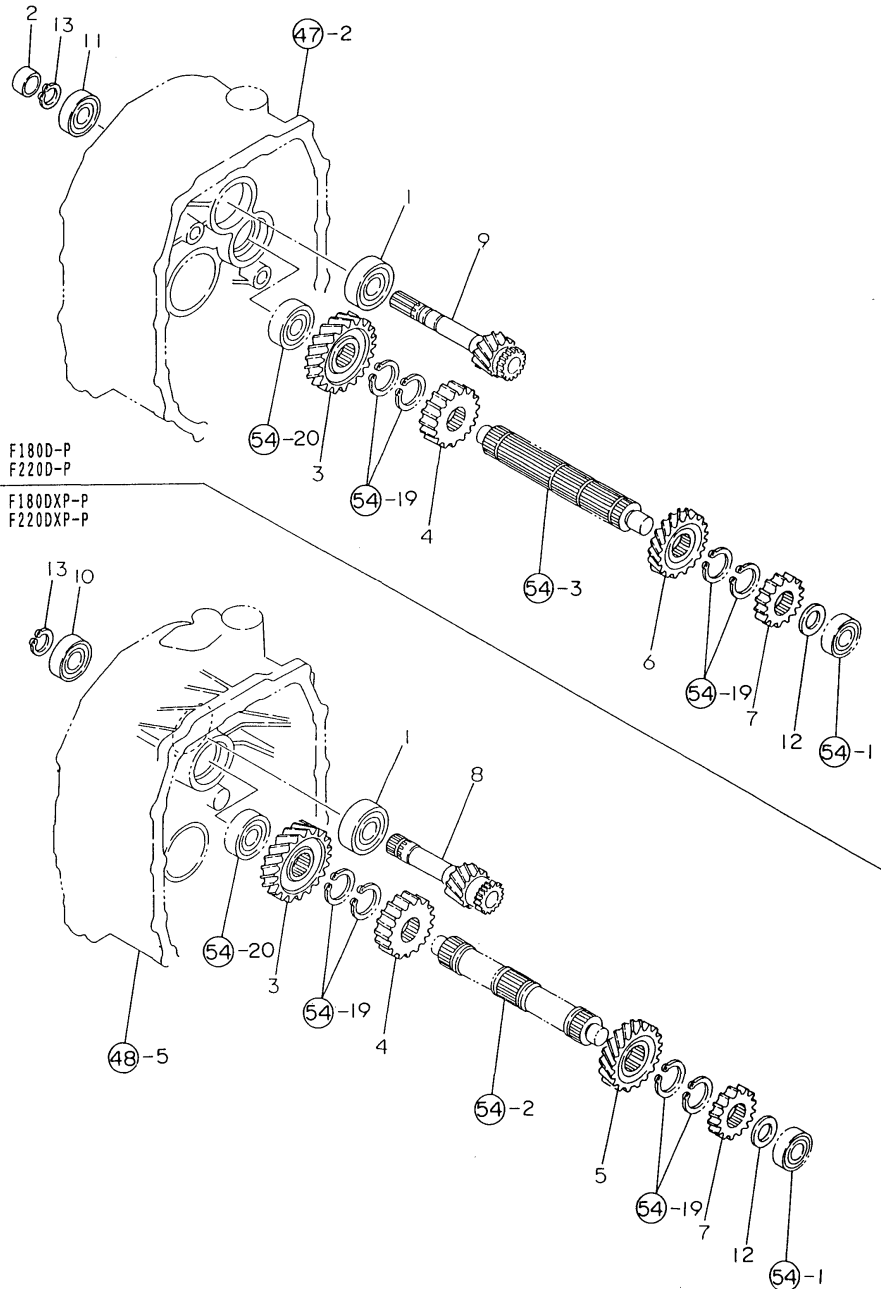
REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194640-24921	COVER,OIL STRAINER	1	1	1	1				
2	1	194515-24930	FILTER, SUCTION	1	1	1	1				
3	1	24341-000550	O-RING 1A S-55.0	1	1	1	1				
4	1	26013-080202	BOLT W/WASHER M8X20	3	3	3	3				
5	1	194515-25910	GEAR, REVERSE	1	1	1	1				
6	1	194515-25921	SHAFT, REVERSE IDLER	1	1	1	1				
7	1	194515-25940	WASHER 18X30X2.0	1	1	1	1				
8	1	22137-100000	WASHER 10,POLISHED	1	1	1	1				
9	1	22217-100000	SPRING WASHER 10	1	1	1	1				
10	1	24161-182412	NEEDLE BEARING	1	1	1	1				
11	1	26716-100002	NUT 10	1	1	1	1				

Fig.53. MAIN DRIVE GEAR

(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

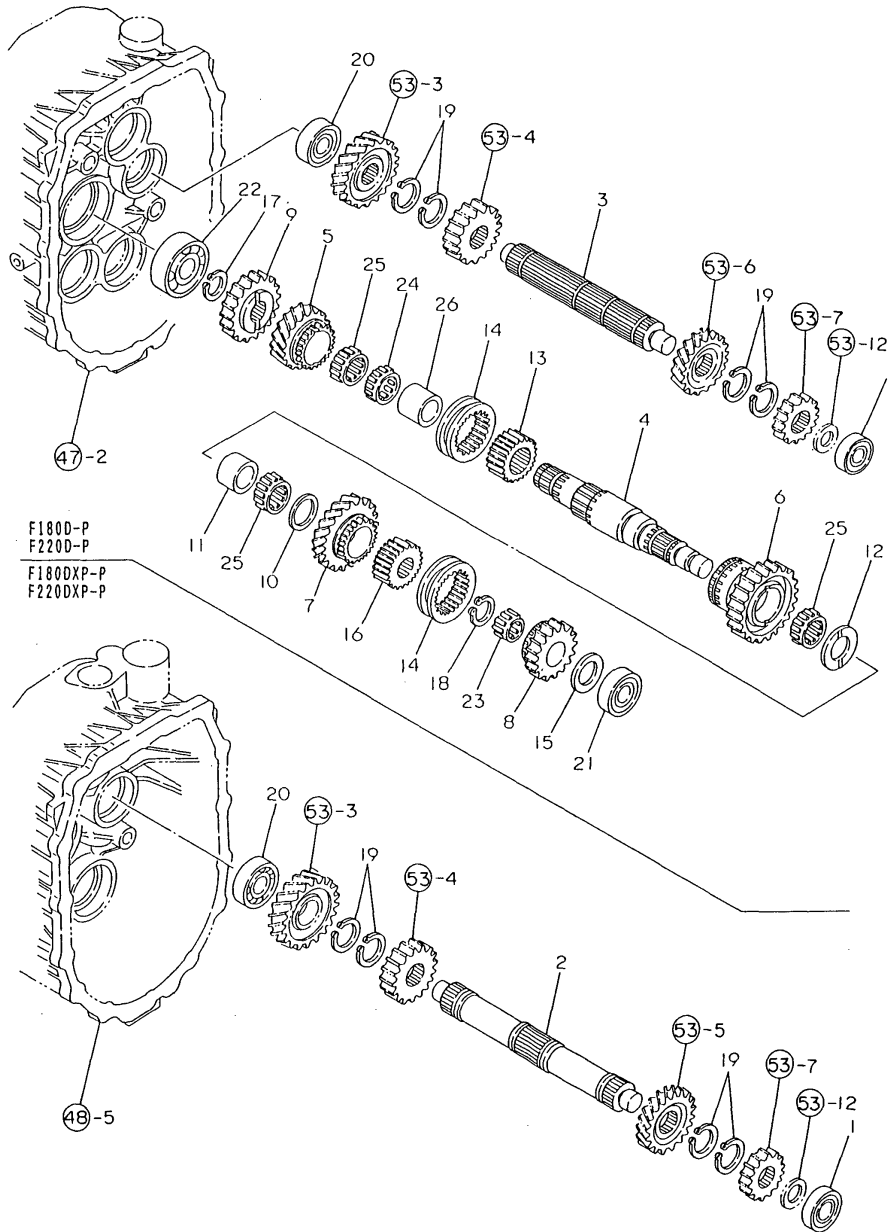
Fig. 53 MAIN DRIVE GEAR



REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194447-13860	BALL BEARING	1	1	1	1				
2	1	194310-24470	SLEEVE 20X25X13	1		1					
3	1	194515-25120	GEAR, MAIN	1	1	1	1				
4	1	198330-25130	GEAR 22T,MAIN	1	1	1	1				
5	1	198330-25140	GEAR 22T,2ND MAIN		1		1				
6	1	198335-25140	GEAR 22T,2ND MAIN	1		1					
7	1	194515-25150	GEAR, MAIN	1	1	1	1				
8	1	198330-25160	GEAR 17T,MAIN		1		1				
9	1	198335-25160	GEAR 17T,MAIN	1		1					
10	1	194515-25180	BALL BEARING		1		1				
11	1	194565-25180	BALL BEARING	1		1					
12	1	194515-25190	WASHER 20X32X2	1	1	1	1				
13	1	22242-000190	CIRCLIP 19	1	1	1	1				

Fig.54. MAIN SHAFT

Fig. 54 MAIN SHAFT



OCT10-G24400 54. MAIN SHAFT

(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194515-25180	BALL BEARING	1	1	1	1				
2	1	198330-25210	SHAFT,PWR.SHIFT MAIN		1		1				
3	1	198335-25210	SHAFT,MAIN	1		1					
4	1	194565-25410	SHAFT	1		1					
5	1	198335-25420	GEAR 29T,MECH.	1		1					
6	1	198335-25430	GEAR 33T,MECH.	1		1					
7	1	198335-25440	GEAR 25T,MECH.	1		1					
8	1	198335-25450	GEAR 22T,MECH.	1		1					
9	1	194565-25460	GEAR, DRIVE	1		1					
10	1	194565-25470	COLLAR 32X36X3	1		1					
11	1	194565-25480	INNER RACE	1		1					
12	1	194565-25490	WASHER 28X45X3	1		1					
13	1	198335-25511	COLLAR 1-3,SPLINE	1		1					
14	1	198335-25520	SHIFTER	2		2					
15	1	194565-25590	WASHER 17X32X3	1		1					
16	1	198335-25611	COLLAR 2-R,SPLINE	1		1					
17	1	22242-000240	CIRCLIP 24	1		1					
18	1	22242-000260	CIRCLIP 26	1		1					
19	1	22242-000290	CIRCLIP 29	4	4	4	4				
20	1	24101-062044	BALL BEARING #6204	1	1	1	1				
21	1	24101-063034	BALL BEARING	1		1					
22	1	24101-063054	BEARING #6305	1		1					
23	1	24161-222617	NEEDLE BEARING	1		1					
24	1	24161-323713	NEEDLE 323713	1		1					
25	1	24161-323717	NEEDLE BEARING	3		3					
26	1	24163-282300	RING 283230,INNER	1		1					

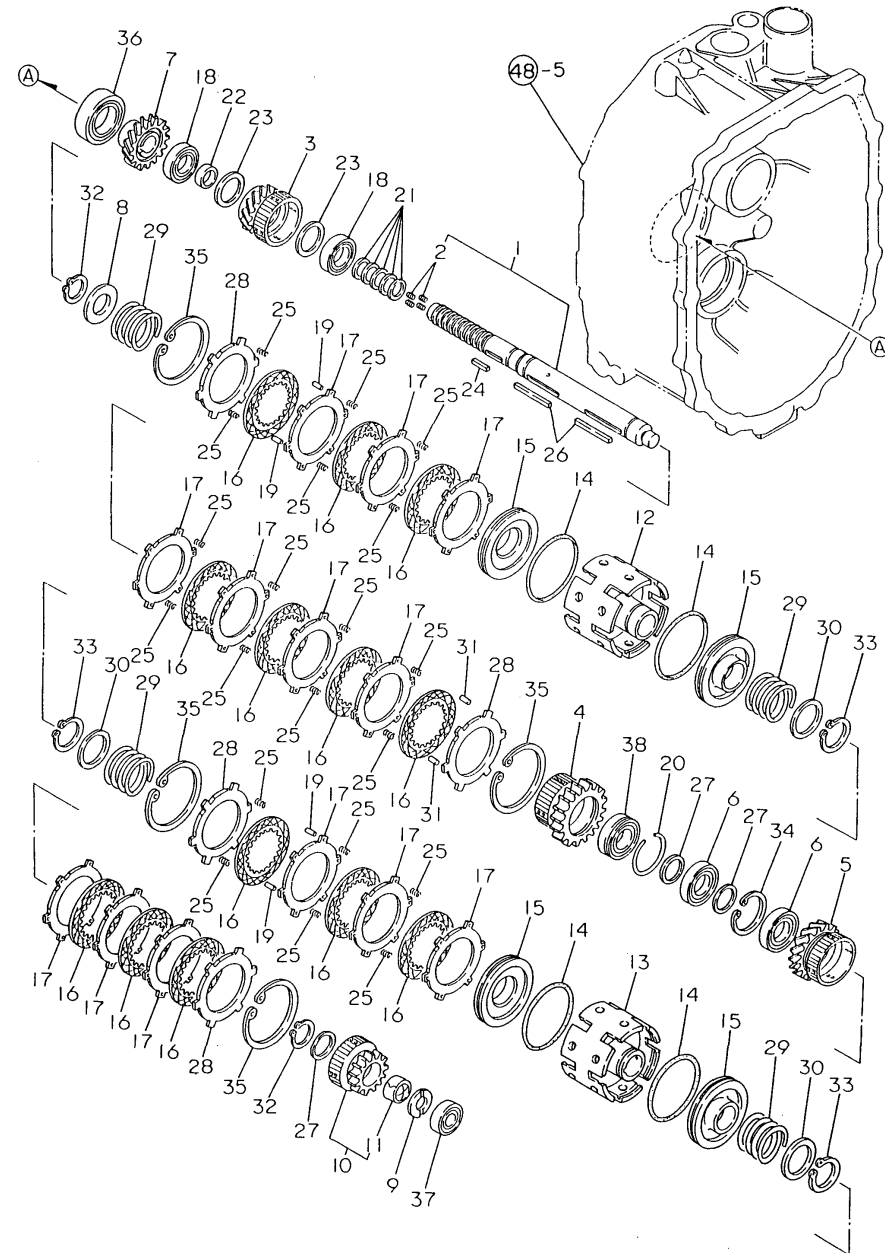


Fig.55. POWER SHIFT CLUTCH SHAFT

(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

Fig. 55 POWER SHIFT CLUTCH SHAFT



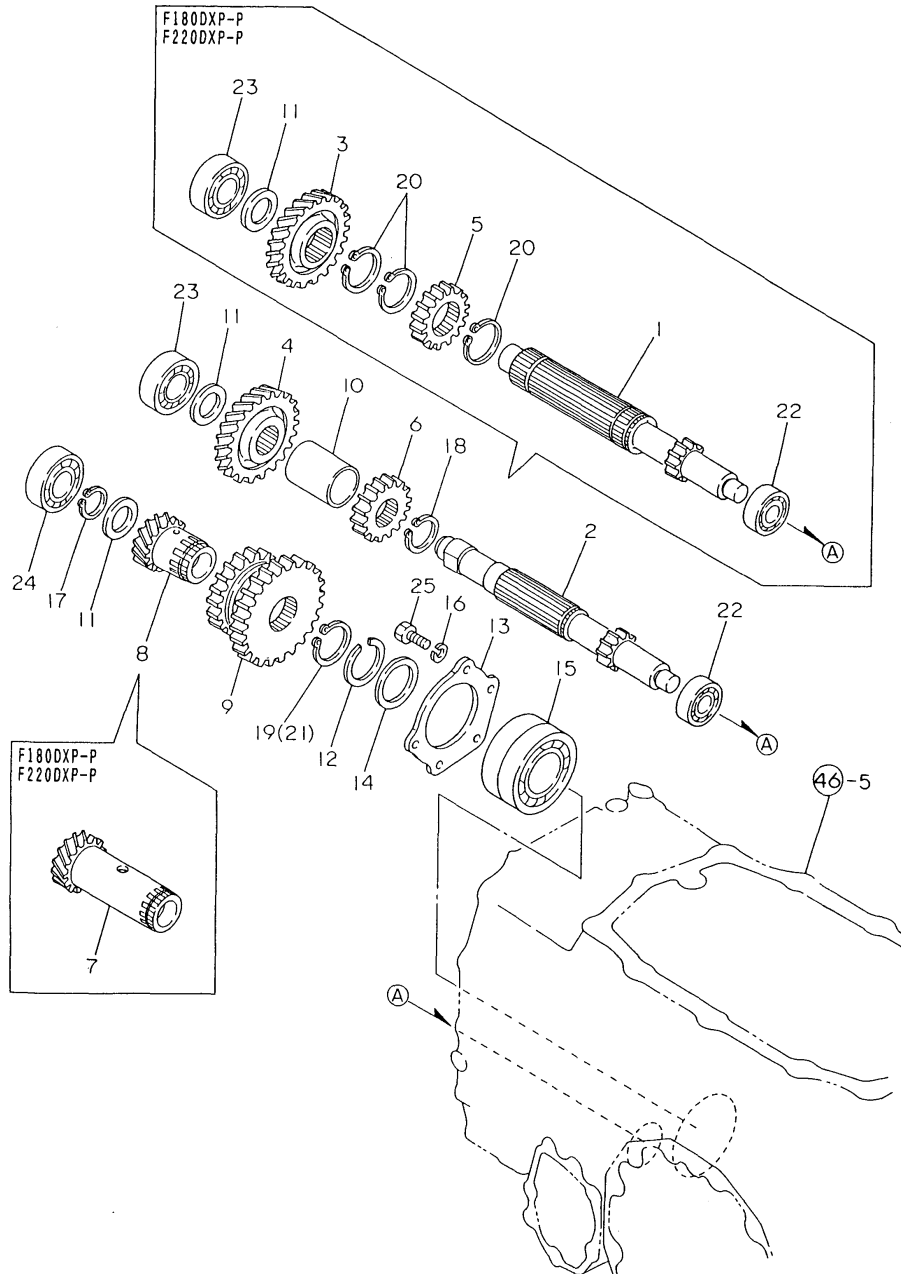
REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194515-25400	SHAFT ASSY, CLUTCH		1		1				
2	2	26911-060082	SCREW M 6X 8		4		4				
3	1	194515-25420	GEAR, CLUTCH		1		1				
4	1	198330-25430	GEAR 33T,CLUTCH		1		1				
5	1	198330-25440	GEAR 25T,CLUTCH		1		1				
6	1	194430-25460	BALL BEARING 16006		2		2				
7	1	194515-25460	GEAR, DRIVE		1		1				
8	1	194515-25480	WASHER 30X53X2.6		1		1				
9	1	194515-25490	WASHER 20X40X3		1		1				
10	1	194515-25500	GEAR ASSY, CLUTCH		1		1				
11	2	194515-25580	BUSH 30X33X14.5		1		1				
12	1	198330-25510	CYLINDER 3-1,CLUTCH		1		1				
13	1	198330-25520	CYLINDER 2-R,CLUTCH		1		1				
14	1	194515-25530	D-RING 95		4		4				
15	1	194515-25540	PISTON, CLUTCH		4		4				
16	1	194515-25550	PLATE, FRICTION		13		13				
17	1	194515-25560	PLATE 1.2, STEEL		13		13				
18	1	194515-25570	BALL BEARING		2		2				
19	1	194555-25580	PIN 2X11.5		6		6				
20	1	194515-25610	SNAP RING 55		1		1				
21	1	194515-25650	SEAL RING 27		5		5				
22	1	194515-25660	COLLAR 27X30X9		1		1				
23	1	194515-25670	WASHER 38X47X1		2		2				
24	1	194515-25680	KEY 7X7X28		1		1				
25	1	194555-25680	SPRING		30		30				
26	1	194515-25690	KEY 7X5.8X60		2		2				
27	1	194515-25780	WASHER 30X38X2.3		3		3				
28	1	194520-25780	PLATE 3.5, STEEL		4		4				
29	1	194300-25790	SPRING		4		4				
30	1	194440-25810	RETAINER, SPRING		3		3				
31	1	1E6140-54360	PIN 2X15		3		3				
32	1	22242-000300	CIRCLIP 30		2		2				
33	1	22242-000400	CIRCLIP 40		3		3				
34	1	22252-000550	CIRCLIP 55		1		1				
35	1	22252-000950	CIRCLIP 95		4		4				
36	1	24101-060084	BALL BEARING		1		1				
37	1	24101-062044	BALL BEARING #6204		1		1				
38	1	24111-060064	BALL BEARING		1		1				

Fig.56. COUNTER SHAFT

(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

Fig. 56 COUNTER SHAFT



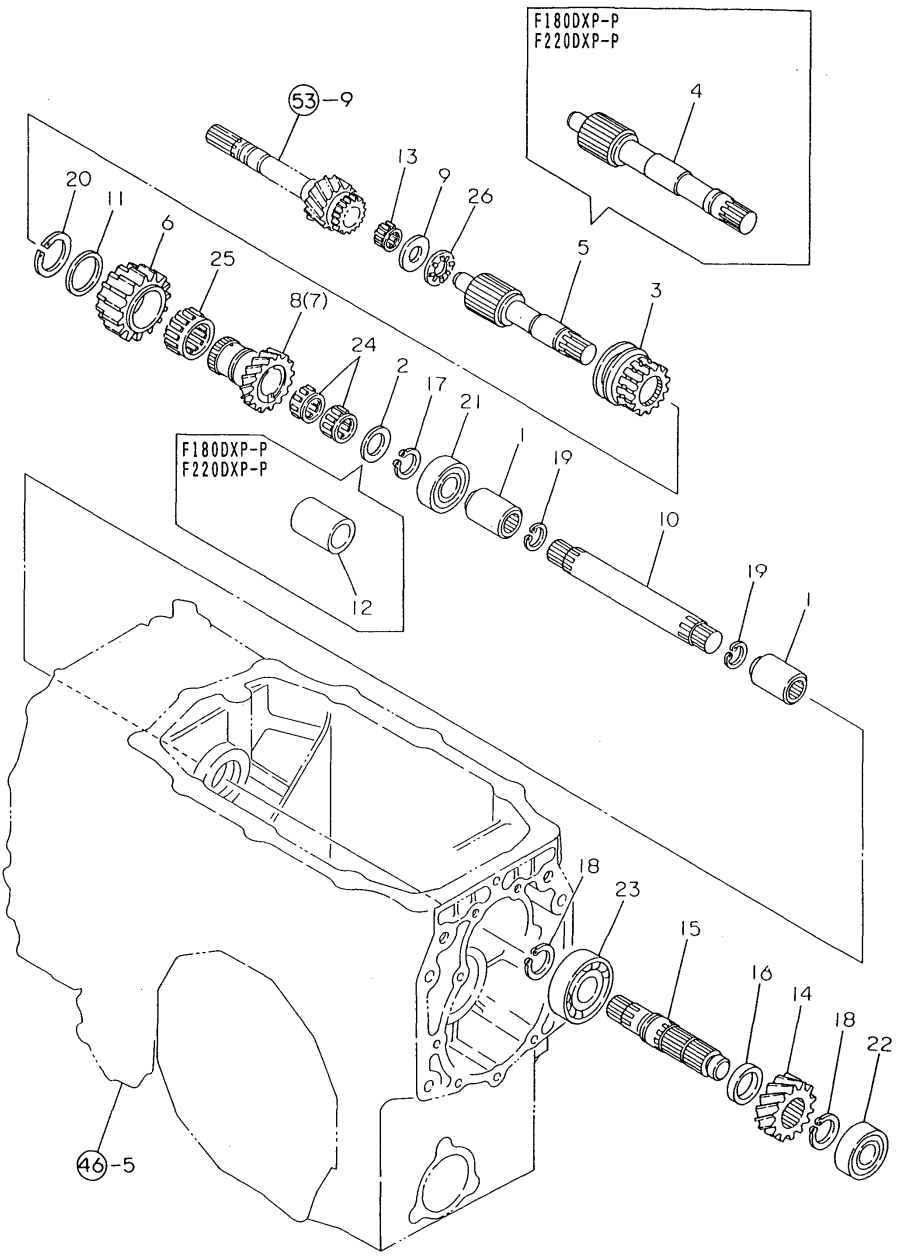
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198330-25710	SHAFT PS,REDUCTION		1		1				
2	1	198335-25710	SHAFT,MECH.REDUCTION	1		1					
3	1	194515-25720	GEAR, REDUCTION		1		1				
4	1	194565-25720	GEAR, REDUCTION	1		1					
5	1	198330-25730	GEAR 18T,REDUCTION		1		1				
6	1	198335-25730	GEAR 18T,REDUCTION	1		1					
7	1	194515-25740	GEAR, COUNTER		1		1				
8	1	194565-25740	GEAR, COUNTER	1		1					
9	1	198330-25750	GEAR 25-46,SLIDE	1	1	1	1				
10	1	194565-25780	COLLAR 30X38X46.5	1		1					
11	1	194515-25790	WASHER 25X37X2	2	2	2	2				
12	1	194515-25810	CIRCLIP 35X2-S	1	1	1	1				
13	1	194515-25820	RETAINER, BEARING	1	1	1	1				
14	1	194515-25840	WASHER 35X45X3	1	1	1	1				
15	1	194515-25850	BALL BEARING	1	1	1	1				
16	1	22217-080000	SPRING WASHER 8	5	5	5	5				
17	1	22242-000240	CIRCLIP 24	1	1	1	1				
18	1	22242-000290	CIRCLIP 29	1		1					
19	1	22242-000340	CIRCLIP 34	1		1					
20	1	22242-000340	CIRCLIP 34		3		3				
21	1	22242-000340	CIRCLIP 34		1		1				
22	1	24101-062034	BALL BEARING	1	1	1	1				
23	1	24101-062054	BEARING #6205	1	1	1	1				
24	1	24101-062054	BEARING #6205	1	1	1	1				
25	1	26116-080252	BOLT M 8X 25 PLATED	5	5	5	5				

Fig.57. P.T.O. DRIVE SHAFT

(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

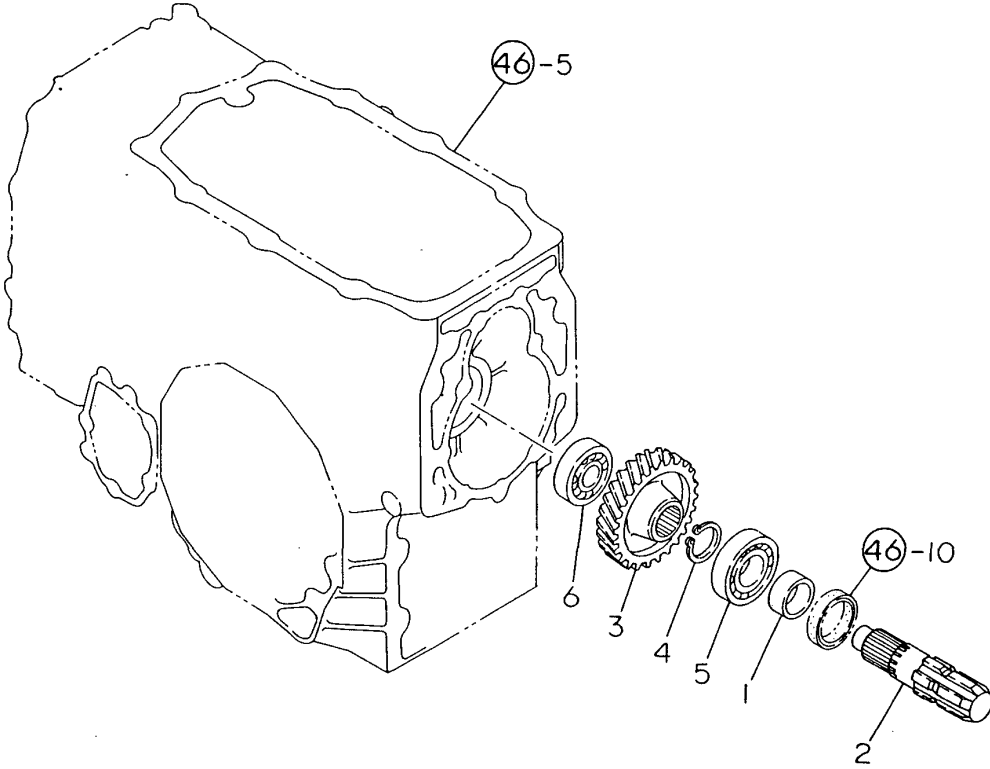
Fig. 57 P, T, O DRIVE SHAFT



REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194310-25100	JOINT	2	2	2	2				
2	1	194515-25190	WASHER 20X32X2	1		1					
3	1	198010-26130	SHIFTER,P.T.O.	1	1	1	1				
4	1	198330-26140	SHAFT,P.T.O.DRIVE		1		1				
5	1	198335-26140	SHAFT,P.T.O.DRIVE	1		1					
6	1	198010-26150	GEAR, P.T.O.	1	1	1	1				
7	1	198330-26160	GEAR 16T,P.T.O.		1		1				
8	1	198335-26160	GEAR 16T,P.T.O.	1		1					
9	1	194515-26180	WASHER	1	1	1	1				
10	1	198330-26190	SHAFT,CONNECTING	1	1	1	1				
11	1	194515-26210	WASHER 32X40X1.6	1	1	1	1				
12	1	198330-26220	COLLAR 20X30X40.5			1			1		
13	1	198330-26230	NEEDLE 15X19X13	1	1	1	1				
14	1	198330-26260	GEAR 15T,P.T.O.IDLE	1	1	1	1				
15	1	198330-26270	SHAFT,P.T.O.PINION	1	1	1	1				
16	1	194515-26290	COLLAR 25X34X6	1	1	1	1				
17	1	22242-000200	CIRCLIP 20	1	1	1	1				
18	1	22242-000240	CIRCLIP 24	2	2	2	2				
19	1	22252-000170	CIRCLIP 17	2	2	2	2				
20	1	22292-000320	CIRCLIP S-32	1	1	1	1				
21	1	24101-062044	BALL BEARING #6204	1	1	1	1				
22	1	24101-062044	BALL BEARING #6204	1	1	1	1				
23	1	24101-063054	BEARING #6305	1	1	1	1				
24	1	24161-202413	NEEDLE BEARING	2	2	2	2				
25	1	24161-323717	NEEDLE BEARING	1	1	1	1				
26	1	24166-152802	NEEDLE BEARING	1	1	1	1				

Fig.58. P.T.O. SHAFT

Fig. 58 P, T, O SHAFT



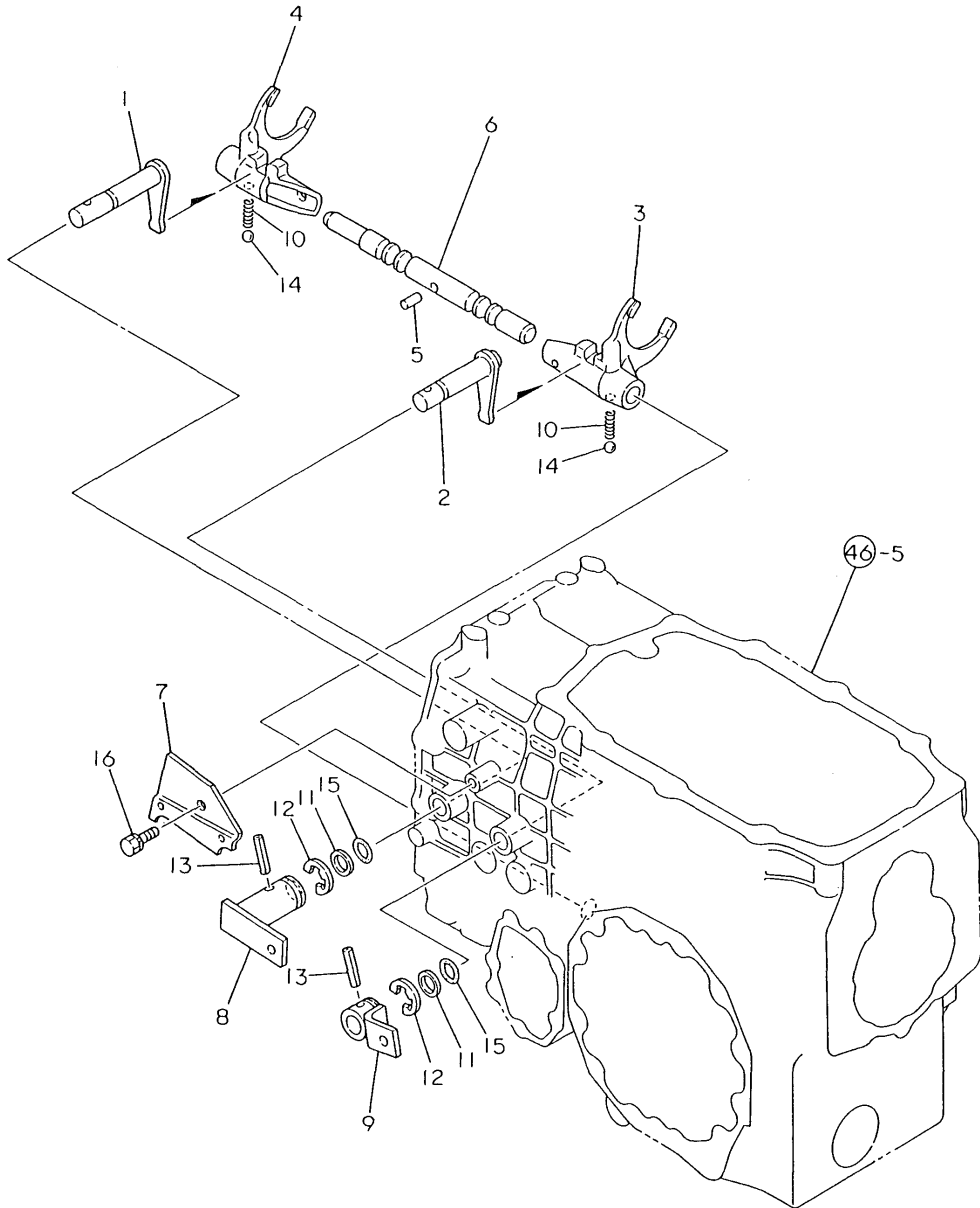
(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	195040-13320	COLLAR 30X38X14,SEAL	1	1	1	1				
2	1	194515-26310	SHAFT, P.T.O.	1	1	1	1				
3	1	198330-26330	GEAR 31T,DRIVEN	1	1	1	1				
4	1	22242-000290	CIRCLIP 29	1	1	1	1				
5	1	24101-062064	BALL BEARING 6206	1	1	1	1				
6	1	24101-063044	BALL BEARING	1	1	1	1				

Fig.59. MAIN SHIFT

Fig. 59 MAIN SHIFT



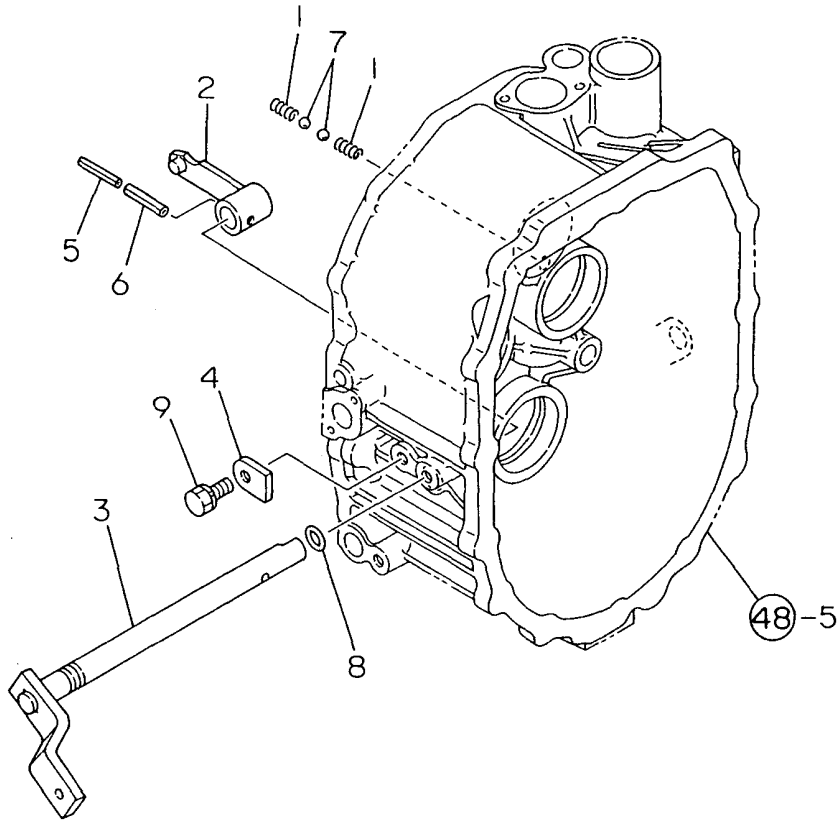
(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198335-27071	ARM 1-3,SHIFT	1	1						
2	1	198335-27090	ARM 2-R,SHIFT	1	1						
3	1	194565-27120	FORK	1	1						
4	1	194565-27130	FORK	1	1						
5	1	194565-27140	SPINDLE 8X19.5	1	1						
6	1	198335-27170	SHAFT,MN.CHG.FORK	1	1						
7	1	198335-27200	PLATE,KEEP	1	1						
8	1	198015-27211	ARM, SHIFT	1	1						
9	1	198015-27251	ARM, SHIFT	1	1						
10	1	194145-27450	SPRING	2	2						
11	1	198290-28540	COLLAR 17X21X2	2	2						
12	1	22272-000150	CIRCLIP E-15	2	2						
13	1	22351-060040	SPRING PIN 6X40	2	2						
14	1	24190-100001	BALL 5/16, STEEL	2	2						
15	1	24311-000160	O-RING 1A P-16.0	2	2						
16	1	26013-080202	BOLT W/WASHER M8X20	1	1						

Fig.60. MAIN SHIFT(POWER SHIFT)

Fig. 60 MAIN SHIFT (POWER SHIFT)



OCT10-G24400 60. MAIN SHIFT(POWER SHIFT)

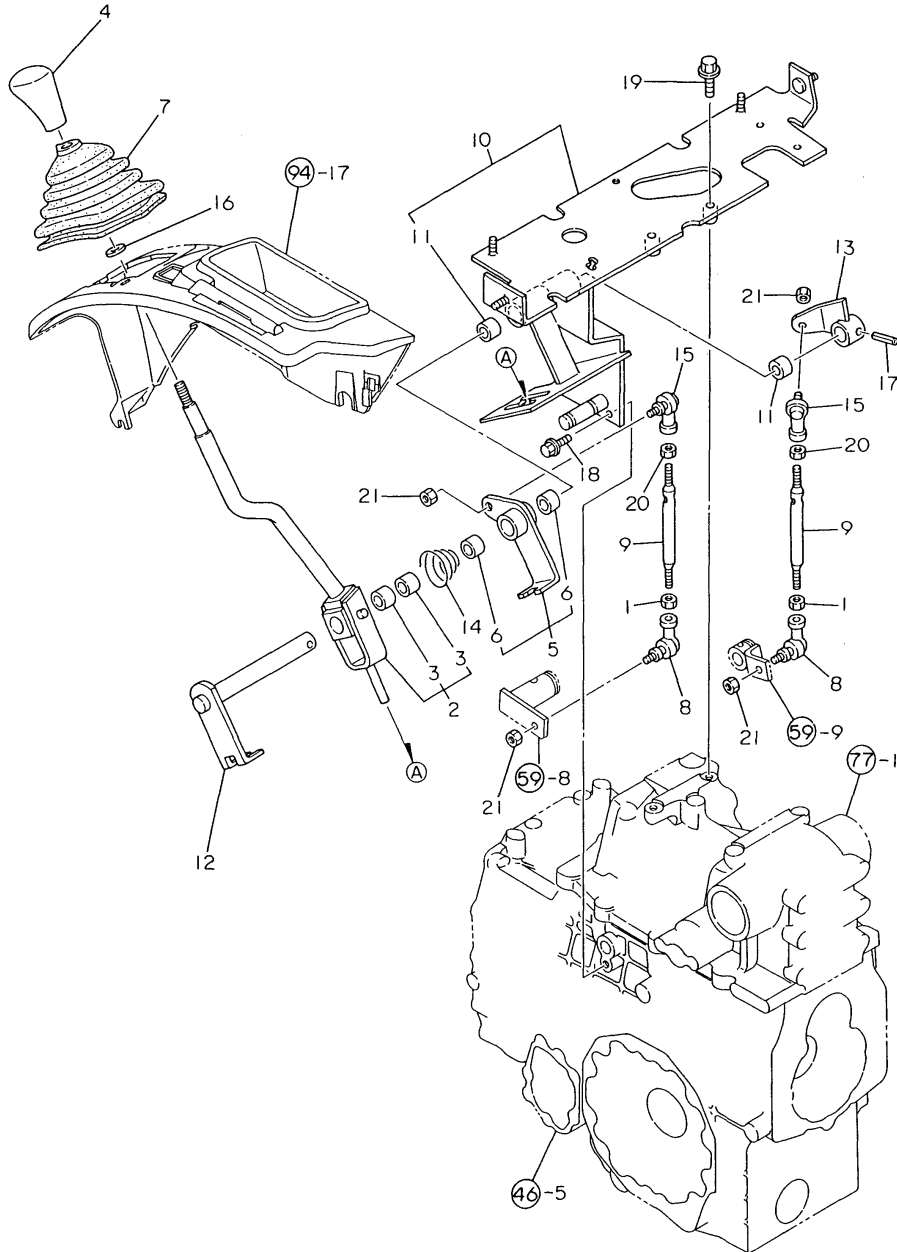
(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194505-27120	SPRING		2		2				
2	1	194515-27211	ARM,SHIFT		1		1				
3	1	198290-27250	SHAFT,MAIN CHANGE		1		1				
4	1	194197-27681	PLATE, KEEP		1		1				
5	1	22351-035032	SPRING PIN 3.5X32		1		1				
6	1	22351-060032	SPRING PIN 6X32		1		1				
7	1	24190-090001	BALL 9/32		2		2				
8	1	24311-000110	O-RING 1A P-11.0		1		1				
9	1	26013-080202	BOLT W/WASHER M8X20		1		1				

Fig.61. MECHANICAL CONTROL

Fig. 61 MECHANICAL CONTROL



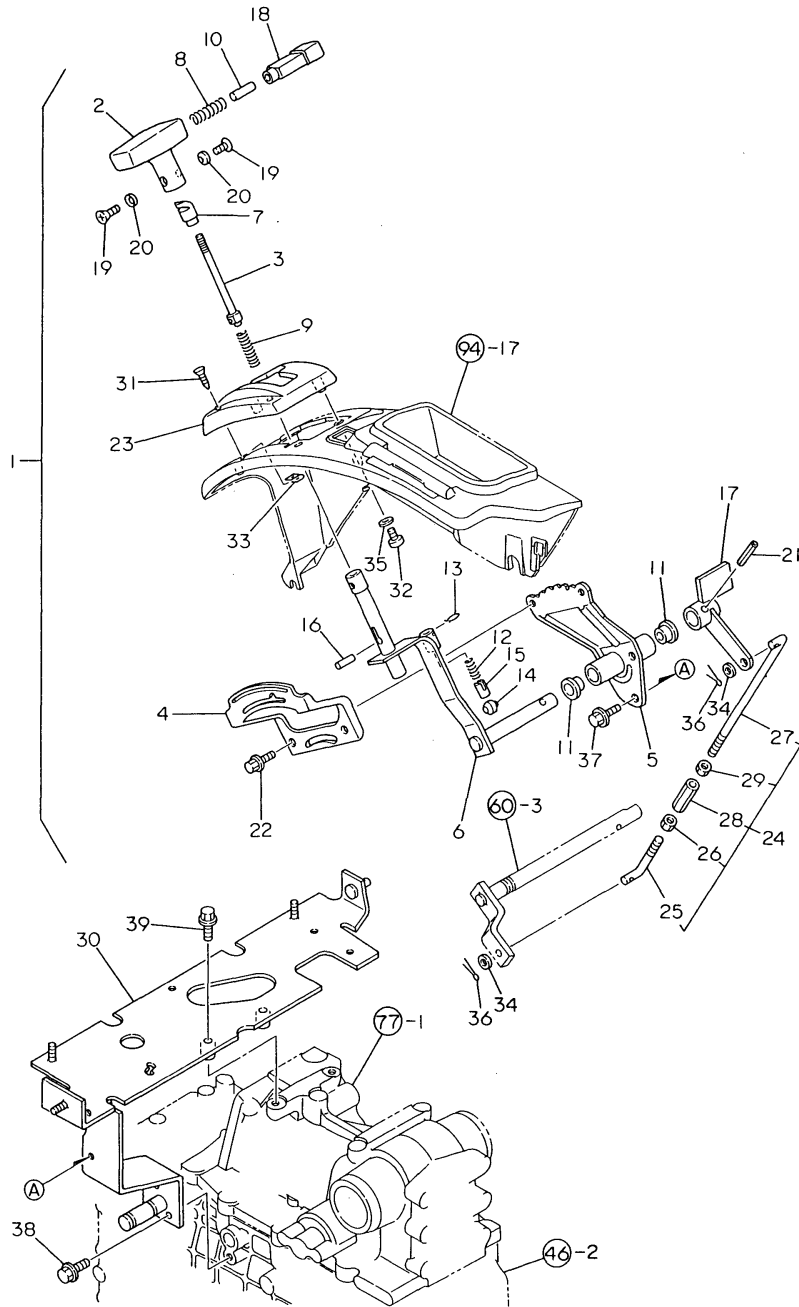
(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194990-20170	NUT W/WASHER 8	2	2						
2	1	198015-27100	LEVER ASSY	1	1						
3	2	24550-020150	BUSH 20X15	2	2						
4	1	198335-27160	KNOB,MAIN CHANGE	1	1						
5	1	198015-27300	ARM, SHIFT	1	1						
6	2	24550-020150	BUSH 20X15	2	2						
7	1	198015-27350	BOOT	1	1						
8	1	194820-27370	END (L), ROD	2	2						
9	1	198015-27380	ROD,CHANGE	2	2						
10	1	198015-27490	SUPPORT CMP,MECH.LVR	1	1						
11	2	24550-020150	BUSH 20X15	2	2						
12	1	198015-27500	ARM 2-R,CHANGE	1	1						
13	1	198015-27550	ARM B 2-R,CHANGE	1	1						
14	1	198310-27771	SPRING	1	1						
15	1	172112-41980	BEARING, ROD-END	2	2						
16	1	22137-120000	WASHER 12,POLISHED	1	1						
17	1	22351-060032	SPRING PIN 6X32	1	1						
18	1	26106-080162	BOLT M 8X 16 PLATED	1	1						
19	1	26106-100352	BOLT M10X 35 PLATED	2	2						
20	1	26716-080002	NUT M 8	2	2						
21	1	26986-080002	NUT 8,LOCK	4	4						

Fig.62. POWER SHIFT CONTROL

Fig. 62 POWER SHIFT CONTROL



(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

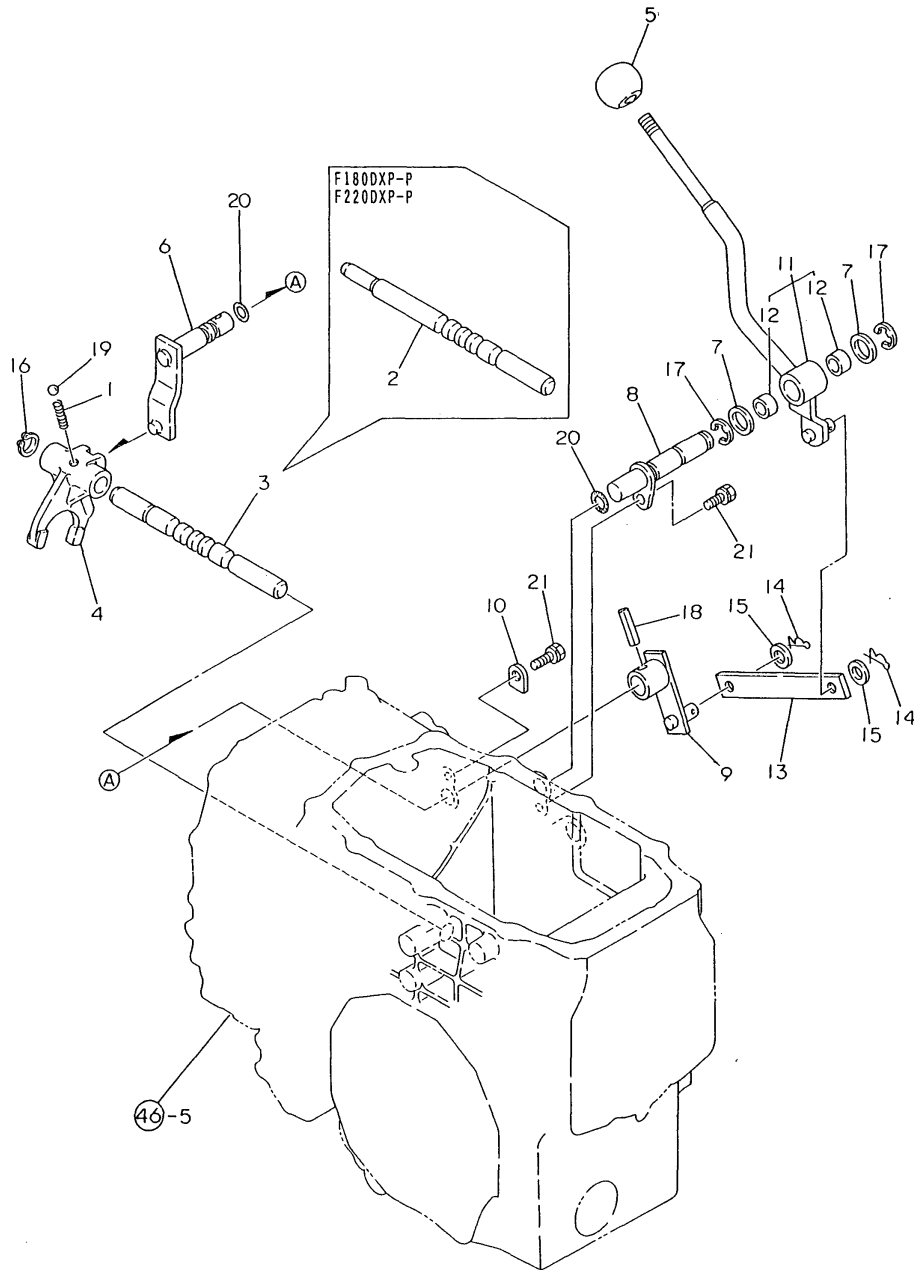
(D)=F220DXP-P  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198011-27200	GRIP,CONT.LEVER BLK.		1		1				
2	2	198290-27141	KNOB, SHIFT LEVER		1		1				
3	2	198290-27210	ROD,DETENT		1		1				
4	2	198011-27220	PLATE,DETENT NO.1		1		1				
5	2	198011-27230	DETENT NO.2 COMP.POS		1		1				
6	2	198011-27260	LEVER SUB-CMP.,SHIFT		1		1				
7	2	198291-27310	SLEEVE		1		1				
8	2	198291-27320	SPRING		1		1				
9	2	194556-27330	SPRING		1		1				
10	2	198291-27330	PIN 6X25		1		1				
11	2	194556-27340	BUSH		2		2				
12	2	194556-27350	SPRING		1		1				
13	2	194556-27360	PIN		1		1				
14	2	194556-27370	ROLLER		1		1				
15	2	194556-27380	PISTON		1		1				
16	2	194556-27410	PIN		1		1				
17	2	198011-27420	ARM,PWR.STEER.CHANGE		1		1				
18	2	198290-27421	BUTTON,SHIFT LVR.KNB		1		1				
19	2	198290-27431	SCREW M5X5,FH.M/C		2		2				
20	2	198290-27441	WASHER 5,CONICAL SP.		2		2				
21	2	22351-060032	SPRING PIN 6X32		1		1				
22	2	26106-060122	BOLT M 6X 12 PLATED		2		2				
23	1	198010-27240	GUIDE,MAIN CHANGE		1		1				
24	1	198011-27300	ROD COMP,MAIN CHANGE		1		1				
25	2	194150-22460	ROD, CLUTCH		1		1				
26	2	194150-22480	NUT M10		1		1				
27	2	198011-27300	ROD, MAIN SHIFT		1		1				
28	2	194250-47490	TURNBUCKLE 10*50		1		1				
29	2	26716-100002	NUT 10		1		1				
30	1	198010-27400	SUPPORT,PW.STEER.LVR		1		1				
31	1	194800-61640	SCREW M 5X 30		2		2				
32	1	194940-61790	SCREW 5X16		2		2				
33	1	198220-63850	NUT 5		2		2				
34	1	22137-100000	WASHER 10,POLISHED		2		2				
35	1	22157-060000	WASHER 6		2		2				
36	1	22417-200300	COTTER PIN 2.0X30		2		2				
37	1	26106-080162	BOLT M 8X 16 PLATED		2		2				
38	1	26106-080162	BOLT M 8X 16 PLATED		1		1				
39	1	26106-100352	BOLT M10X 35 PLATED		2		2				



Fig.63. RANGE SHIFT

Fig. 63 RANGE SHIFT



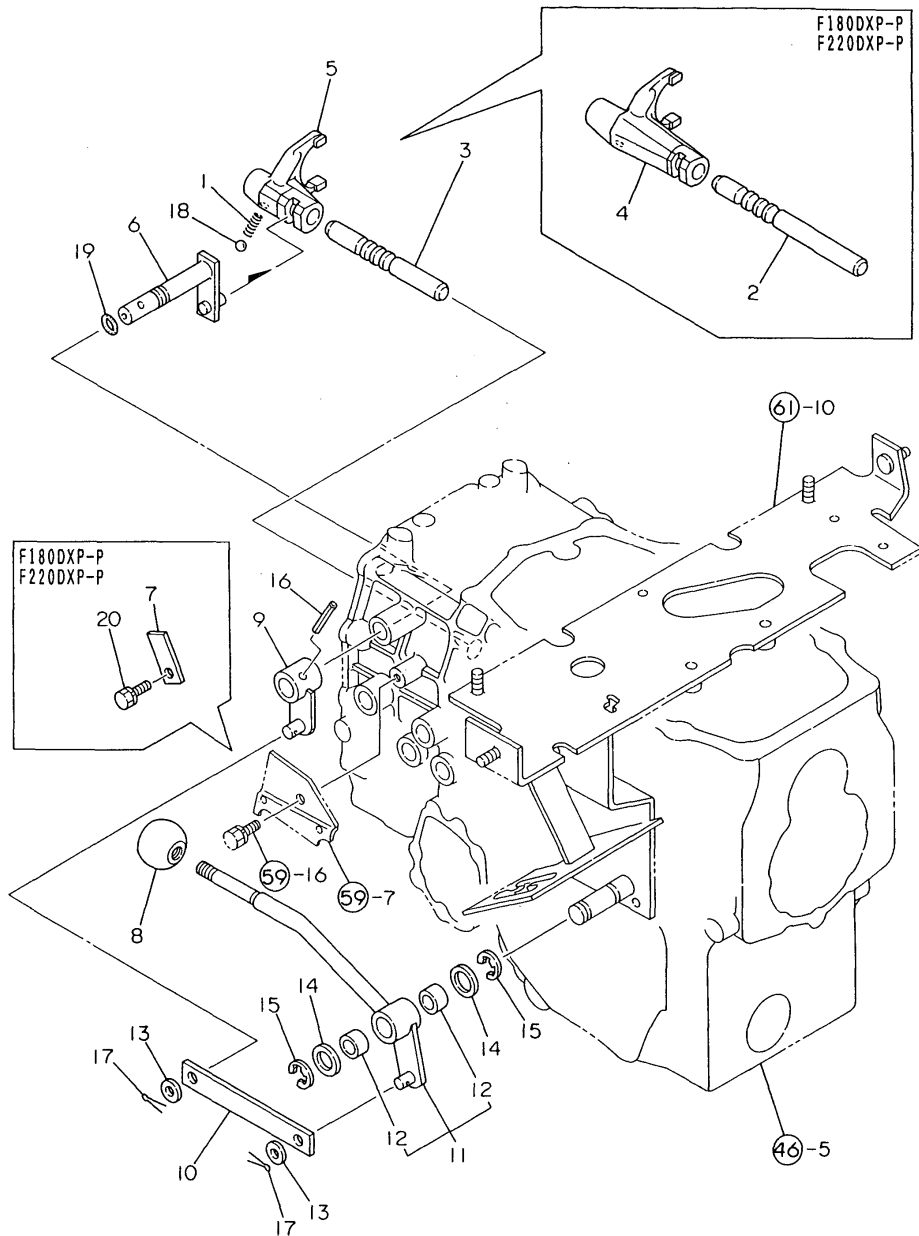
(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194145-27450	SPRING	1	1	1	1				
2	1	194515-27510	SHAFT, FORK		1		1				
3	1	194565-27510	SHAFT, FORK	1		1					
4	1	194515-27520	FORK, SHIFT	1	1	1	1				
5	1	194420-27550	KNOB	1	1	1	1				
6	1	194515-27550	ARM, SHIFT	1	1	1	1				
7	1	194525-27590	WASHER, 18X30X2	2	2	2	2				
8	1	198010-27600	FULCRUM,SUB-CHG.LVR.	1	1	1	1				
9	1	198010-27610	ARM, RANGE SHIFT	1	1	1	1				
10	1	194197-27681	PLATE, KEEP	1	1	1	1				
11	1	198010-27850	LEVER COMP.,SUB-CHG.	1	1	1	1				
12	2	194630-24230	BUSH 17X19X15	2	2	2	2				
13	1	198010-27860	ROD, RANGE SHIFT	1	1	1	1				
14	1	1C6281-52320	PIN 8,COME-OFF SNAP	2	2	2	2				
15	1	22137-100000	WASHER 10,POLISHED	2	2	2	2				
16	1	22242-000170	CIRCLIP 17	1	1	1	1				
17	1	22272-000150	CIRCLIP E-15	2	2	2	2				
18	1	22351-060032	SPRING PIN 6X32	1	1	1	1				
19	1	24190-100001	BALL 5/16, STEEL	1	1	1	1				
20	1	24311-000125	O-RING 1A P-12.5	2	2	2	2				
21	1	26013-080202	BOLT W/WASHER M8X20	2	2	2	2				

Fig.64. P.T.O. SHIFT

Fig. 64 P, T, O SHIFT



(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

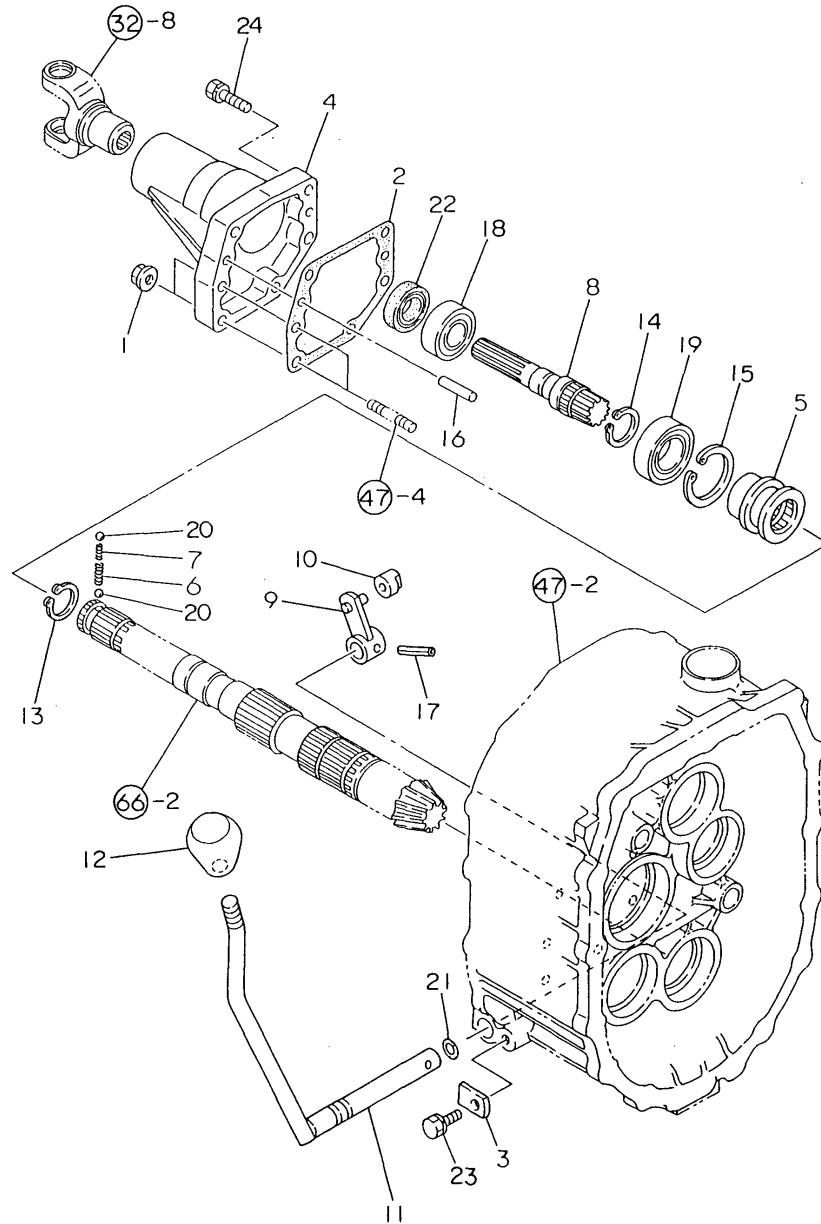
REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194145-27450	SPRING	1	1	1	1				
2	1	194515-27712	SHAFT, FORK		1		1				
3	1	194565-27712	SHAFT,PTO.MECH.FORK	1		1					
4	1	194515-27721	FORK, SHIFT		1		1				
5	1	194565-27721	FORK,PTO.MECH.SHAFT	1		1					
6	1	194515-27750	ARM, P.T.O. SHIFT	1	1	1	1				
7	1	194515-27790	PLATE, KEEP		1		1				
8	1	194420-27810	KNOB	1	1	1	1				
9	1	198010-27940	ARM,P.T.O.	1	1	1	1				
10	1	198010-27950	ROD, P.T.O.	1	1	1	1				
11	1	198010-27980	LEVER, P.T.O.	1	1	1	1				
12	2	194630-24230	BUSH 17X19X15	2	2	2	2				
13	1	22137-100000	WASHER 10,POLISHED	2	2	2	2				
14	1	22137-180000	WASHER 18	2	2	2	2				
15	1	22272-000150	CIRCLIP E-15	2	2	2	2				
16	1	22351-060032	SPRING PIN 6X32	1	1	1	1				
17	1	22417-200300	COTTER PIN 2.0X30	2	2	2	2				
18	1	24190-100001	BALL 5/16, STEEL	1	1	1	1				
19	1	24311-000125	O-RING 1A P-12.5	1	1	1	1				
20	1	26013-080202	BOLT W/WASHER M8X20		1		1				

Fig.65. FRONT DRIVE

(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

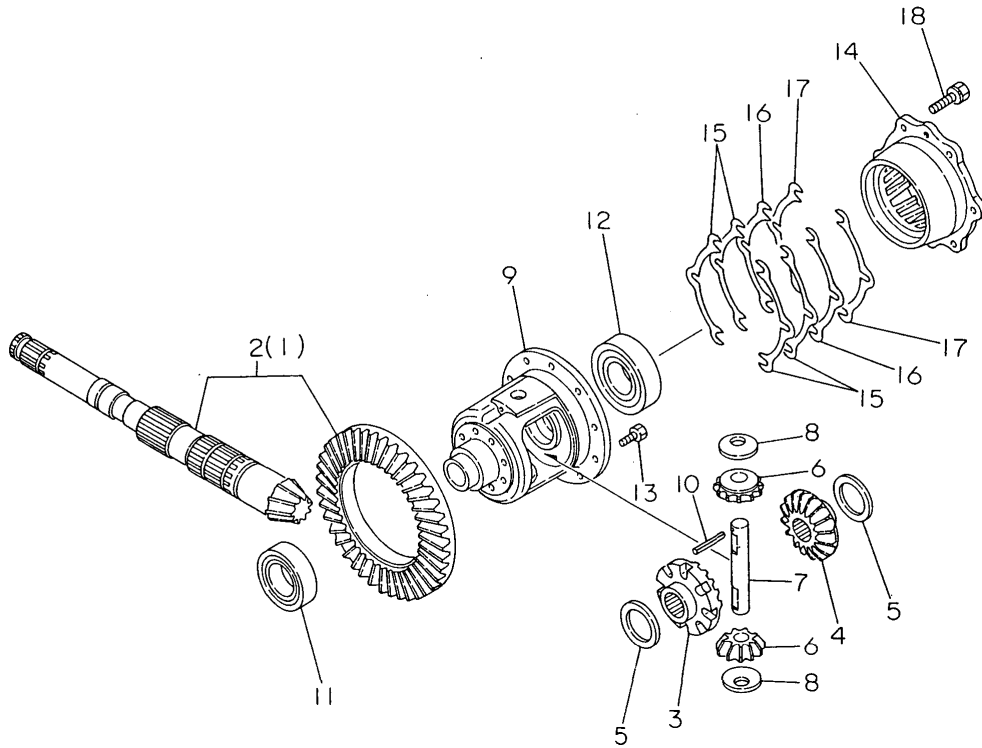
Fig. 65 FRONT DRIVE



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				
2	1	194515-24360	GASKET, COVER	1	1	1	1				
3	1	194197-27681	PLATE, KEEP	1	1	1	1				
4	1	194516-28111	CASE, FRONT DRIVE	1	1	1	1				
5	1	194516-28151	SLIDER, FRONT	1	1	1	1				
6	1	194516-28161	SPRING 17.3	1	1	1	1				
7	1	194516-28171	SPRING 3.8X15.6	1	1	1	1				
8	1	194516-28211	SHAFT, FRONT DRIVE	1	1	1	1				
9	1	194516-28250	ARM, FRONT SHIFT	1	1	1	1				
10	1	194306-28320	BLOCK, SHIFT	1	1	1	1				
11	1	198011-28410	LEVER, FRONT DRIVE	1	1	1	1				
12	1	194421-28480	KNOB	1	1	1	1				
13	1	22242-000240	CIRCLIP 24	1	1	1	1				
14	1	22242-000250	CIRCLIP 25S	1	1	1	1				
15	1	22252-000470	CIRCLIP 47(H)	1	1	1	1				
16	1	22312-080200	PARALLEL PIN 8X20	2	2	2	2				
17	1	22351-060025	SPRING PIN 6X25	1	1	1	1				
18	1	24101-060044	BALL BEARING #6004	1	1	1	1				
19	1	24101-060054	BALL BEARING 6005	1	1	1	1				
20	1	24190-080001	BALL 1/4, STEEL	2	2	2	2				
21	1	24311-000110	O-RING 1A P-11.0	1	1	1	1				
22	1	24421-203508	SEAL, OIL	1	1	1	1				
23	1	26013-080202	BOLT W/WASHER M8X20	1	1	1	1				
24	1	26013-080302	BOLT M 8X 30	4	4	4	4				

Fig.66. RING GEAR&DIFFERENTIAL CARRIER

Fig. 66 RING GEAR & DIFFERENTIAL CARRIER



(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194516-31401	GEAR COMP.,RING		1		1				
2	1	194566-31400	GEAR W/COUNTERSHAFT	1			1				
3	1	194525-31510	GEAR L,DIFF.SIDE	1	1		1	1			
4	1	194525-31520	GEAR R,DIFF.SIDE	1	1		1	1			
5	1	194515-31610	WASHER, DIFFERENTIAL	2	2		2	2			
6	1	194525-31810	PINION,DIFF.	2	2		2	2			
7	1	194515-31820	SHAFT, DIFFERENTIAL	1	1		1	1			
8	1	194515-31850	WASHER, DIFFERENTIAL	2	2		2	2			
9	1	194515-32110	HOUSING, DIFF.	1	1		1	1			
10	1	22351-040040	SPRING PIN 4X40	1	1		1	1			
11	1	24101-060074	BALL BEARING	1	1		1	1			
12	1	24101-062074	BALL BEARING	1	1		1	1			
13	1	26116-080162	BOLT 8X16	10	10		10	10			
14	1	194515-32320	CARRIER,DIFFERENTIAL	1	1		1	1			
15	1	194515-32350	SHIM T=0.1	4	4		4	4			
16	1	194515-32360	SHIM T=0.3	2	2		2	2			
17	1	194515-32370	SHIM T=0.5	2	2		2	2			
18	1	26013-080252	BOLT M 8X 25	6	6		6	6			

Fig.67. REAR HOUSING

Fig. 67 REAR HOUSING

(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194447-14140	SEAL TC6Y 57 75 12	2	2	2	2				
2	1	194515-32613	HOUSING L, REAR AXLE	1	1	1	1				
3	1	194515-32623	HOUSING R, REAR AXLE	1	1	1	1				
4	1	194515-32630	PACKING, HOUSING	2	2	2	2				
5	1	194515-32650	COVER, REAR AXLE	2	2	2	2				
6	1	194515-32660	GASKET, AXLE COVER	2	2	2	2				
7	1	198290-32710	SLEEVE,CAMSHAFT	2	2	2	2				
8	1	198290-32750	SEAL TC253506,OIL	2	2	2	2				
9	1	194312-32800	HINGE, LOWER LINK	2	2	2	2				
10	1	22217-100000	SPRING WASHER 10	4	4	4	4				
11	1	22312-100200	PARALLEL PIN 10X20	4	4	4	4				
12	1	23491-140002	PLUG 14	2	2	2	2				
13	1	24311-000160	O-RING 1A P-16.0	2	2	2	2				
14	1	26013-100352	BOLT M10X 35	14	14	14	14				
15	1	26013-100402	BOLT M10X 40	24	24	24	24				
16	1	26013-100452	BOLT M10X 45	4	4	4	4				
17	1	26013-100502	BOLT M10X 50	2	2	2	2				
18	1	26116-100552	BOLT M10X 55 PLATED	4	4	4	4				

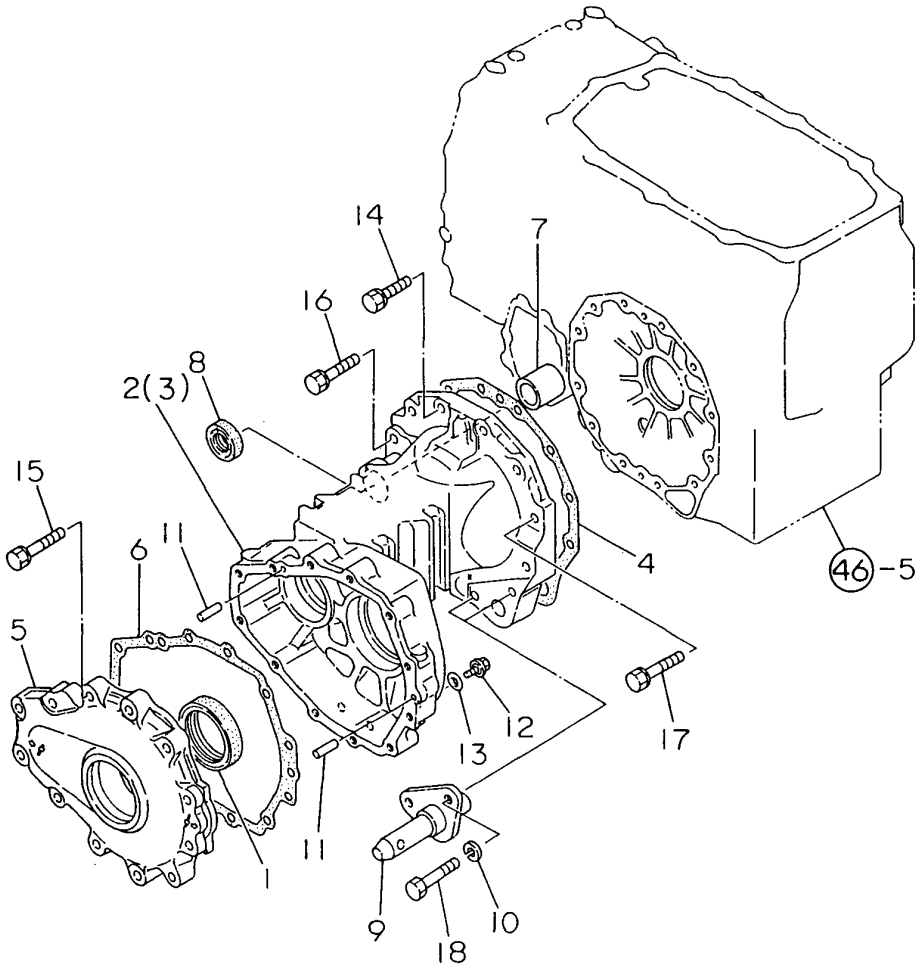
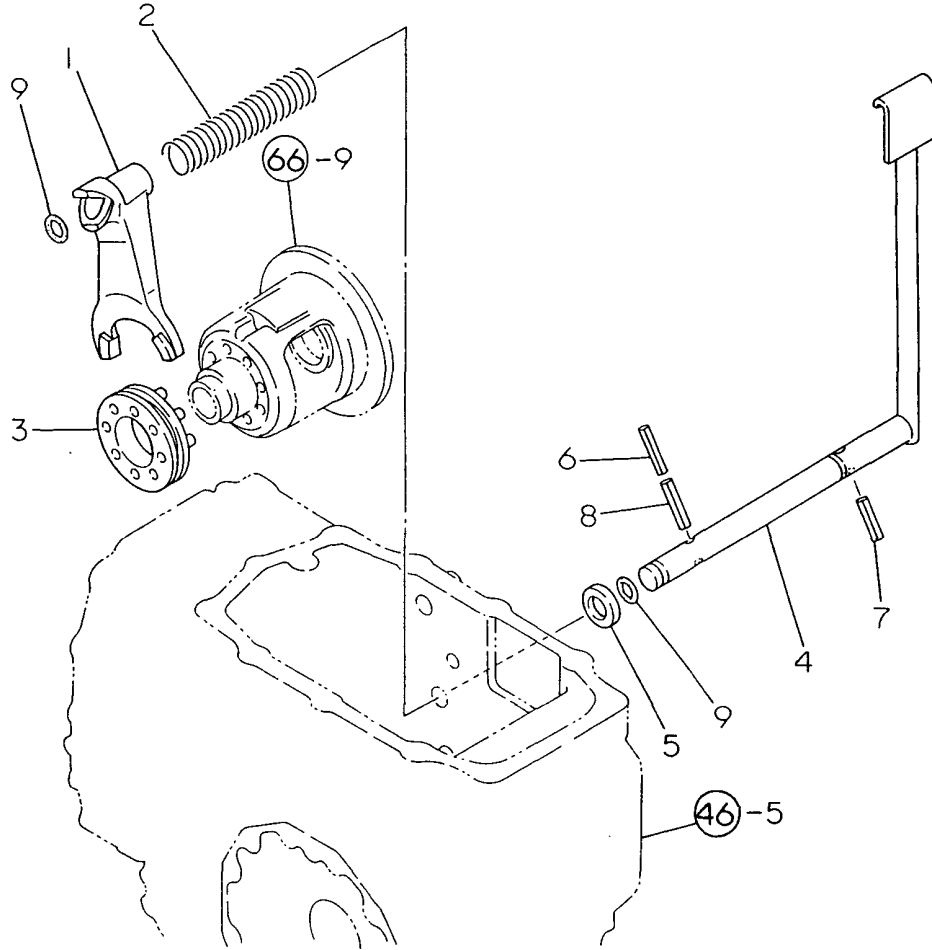


Fig.68. DIFFERENTIAL LOCK

Fig. 68 DIFFERENTIAL LOCK



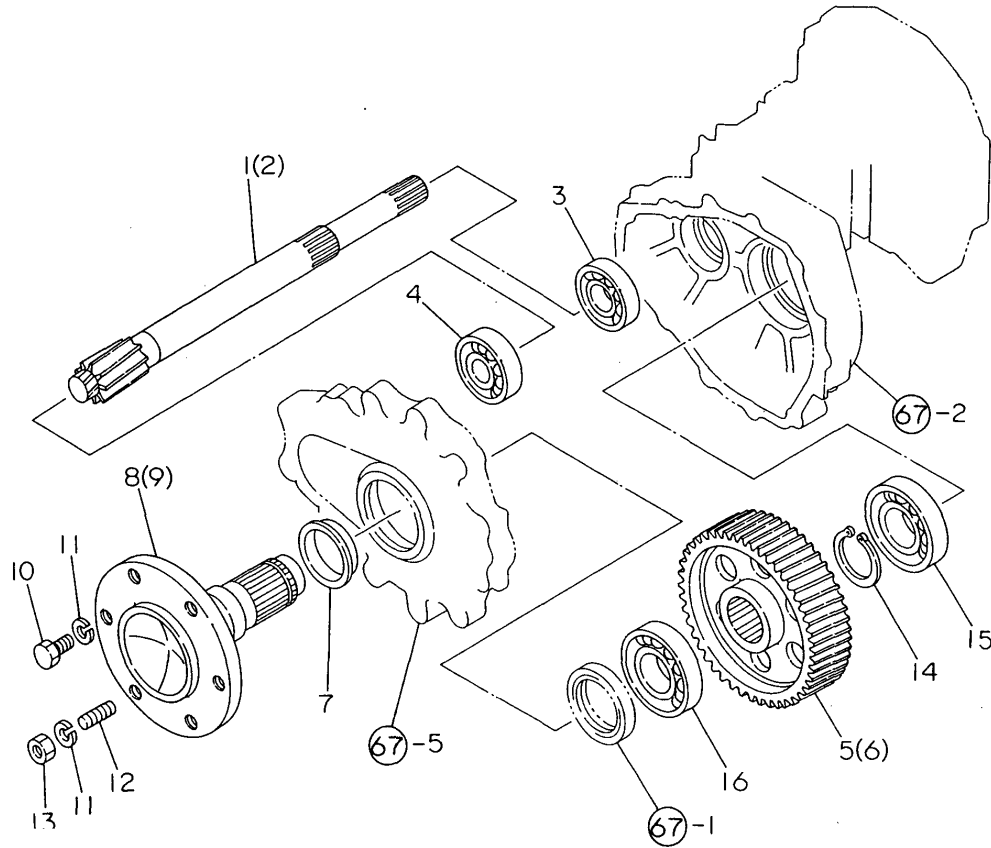
(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194515-33110	FORK, DIFF. LOCK	1	1	1	1				
2	1	194420-33150	SPRING, RETURN	1	1	1	1				
3	1	194515-33150	SLIDER, DIFFERENTIAL	1	1	1	1				
4	1	198010-33160	PEDAL, DIFF. LOCK	1	1	1	1				
5	1	194300-33200	SPACER 20X32X3.2	1	1	1	1				
6	1	22351-050040	SPRING PIN 5X40	1	1	1	1				
7	1	22351-080032	SPRING PIN 8X32	1	1	1	1				
8	1	22351-080040	SPRING PIN 8X40	1	1	1	1				
9	1	24311-000160	O-RING 1A P-16.0	2	2	2	2				

Fig.69. FINAL PINION & FINAL GEAR

Fig. 69 FINAL PINION & FINAL GEAR



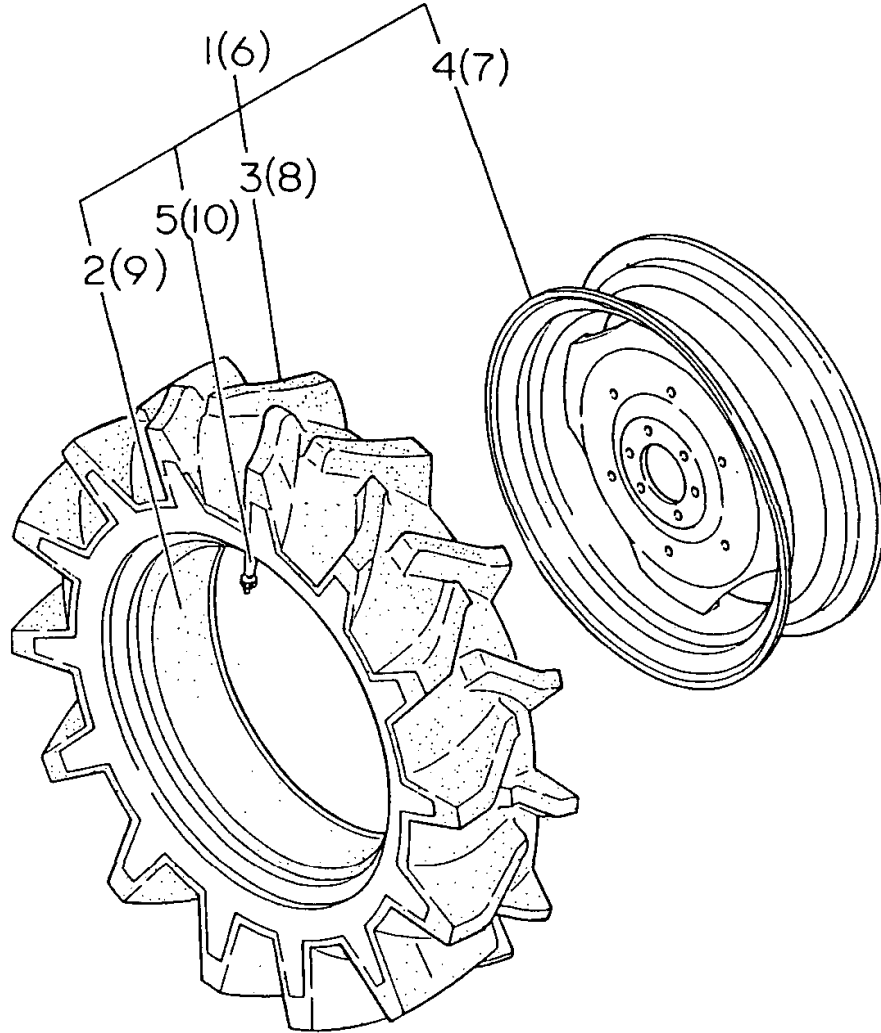
(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194515-33410	PINION, FINAL	1	1	1	1				
2	1	194515-33420	PINION, FINAL	1	1	1	1				
3	1	194515-33430	BALL BEARING	2	2	2	2				
4	1	194515-33440	BALL BEARING	2	2	2	2				
5	1	194525-33510	GEAR, FINAL	1	1	1	1				
6	1	194525-33520	GEAR, FINAL	1	1	1	1				
7	1	194447-14180	SLEEVE SL525718	2	2	2	2				
8	1	194525-34110	SHAFT, REAR AXLE	2	2						
9	1	198330-34110	SHAFT, REAR AXLE			2	2				
10	1	194555-34180	BOLT 16X30	8	8	8	8				
11	1	194555-34190	SPRING WASHER 16	12	12	12	12				
12	1	194555-34200	STUD 16X28	4	4	4	4				
13	1	194555-34210	NUT M16	4	4	4	4				
14	1	22242-000450	CIRCLIP 45	2	2	2	2				
15	1	24101-062084	BALL BEARING	2	2	2	2				
16	1	24101-062094	BALL BEARING	2	2	2	2				

Fig.70. REAR WHEEL TIRE (L)

# Fig. 70 REAR WHEEL TIRE (L)



(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

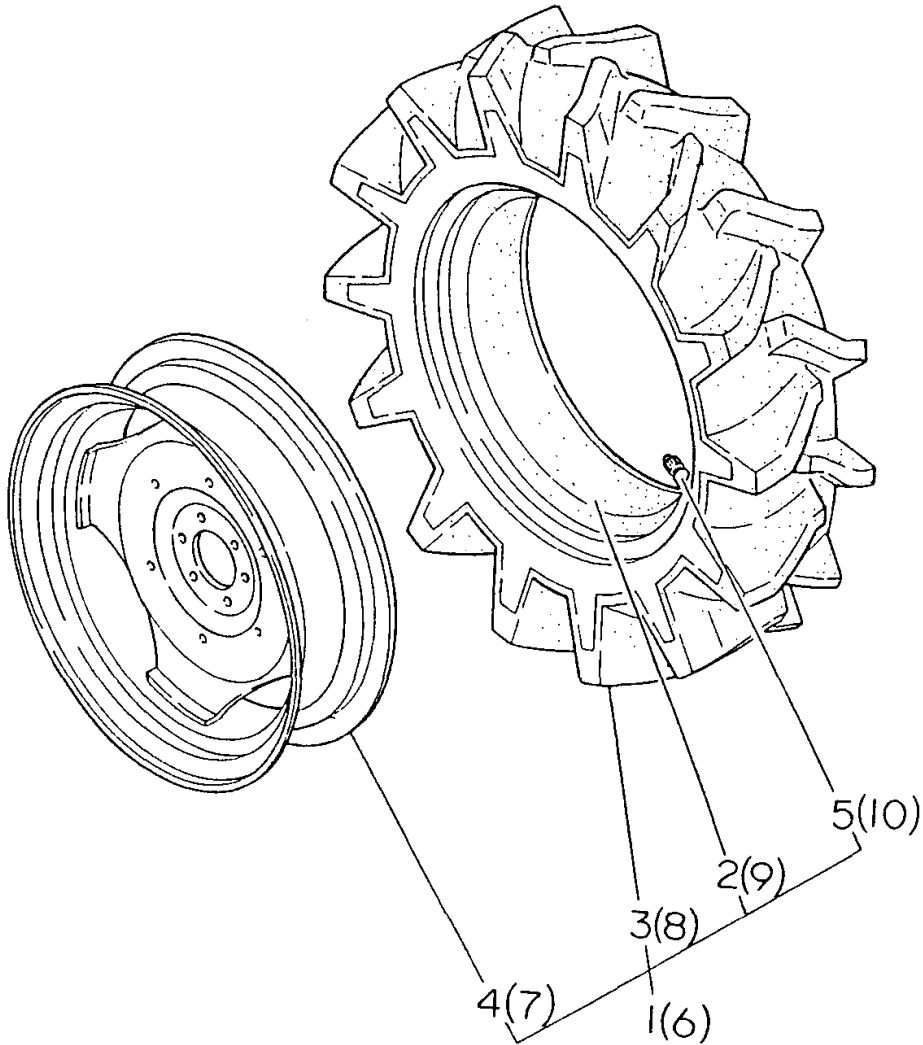
(D)=F220DXP-P  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194292-34700	TIRE(L)ASSY,REAR WH.	1	1						
2	2	194195-34430	TUBE	1	1						
3	2	194195-34470	TIRE 9.5-20	1	1						
4	2	194292-34870	WHEEL W 7X 20	1	1						
5	2	194190-34730	HOUSING,CORE	1	1						
6	1	198031-34700	TIRE L KIT,REAR WHL.			1	1				
7	2	194190-34800	WHEEL W-7X22W			1	1				
8	2	198031-34910	TIRE W/TUBE 9.5-22			1	1				
9	2	198031-34920	TUBE 9.5-22			1	1				
10	2	194190-34730	HOUSING,CORE			1	1				



Fig.71. REAR WHEEL TIRE (R)

Fig. 71 REAR WHEEL TIRE (R)



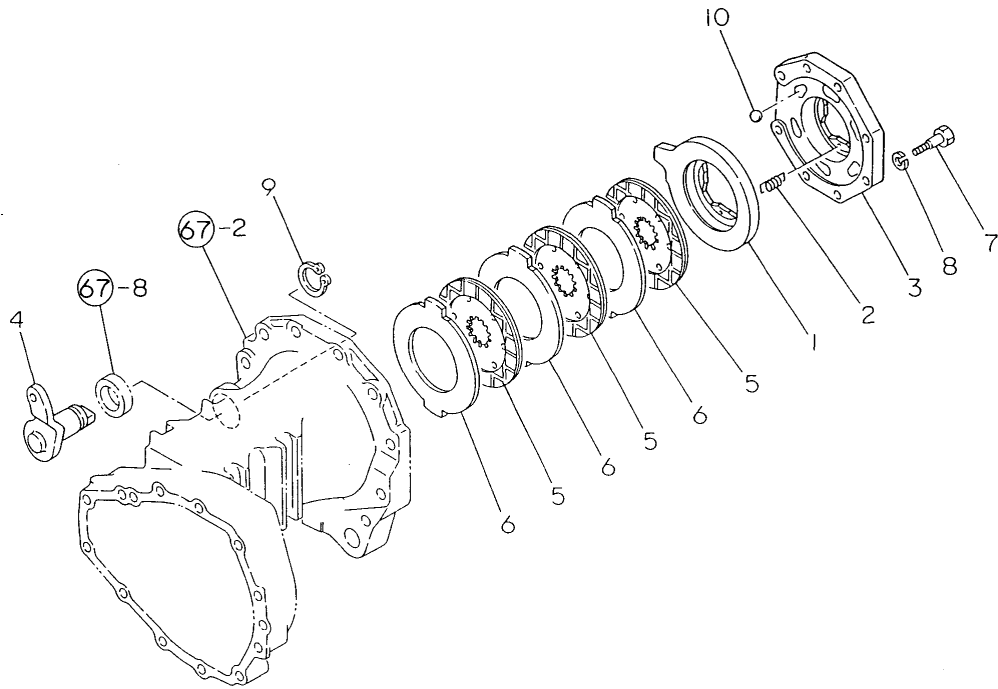
(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194292-34800	TIRE(R)ASSY,REAR WH.	1	1						
2	2	194195-34430	TUBE	1	1						
3	2	194195-34470	TIRE 9.5-20	1	1						
4	2	194292-34870	WHEEL W 7X 20	1	1						
5	2	194190-34730	HOUSING,CORE	1	1						
6	1	198031-34800	TIRE R KIT,REAR WHL.			1	1				
7	2	194190-34800	WHEEL W-7X22W			1	1				
8	2	198031-34910	TIRE W/TUBE 9.5-22			1	1				
9	2	198031-34920	TUBE 9.5-22			1	1				
10	2	194190-34730	HOUSING,CORE			1	1				

Fig.72. BRAKE (L)

Fig. 72 BRAKE (L)



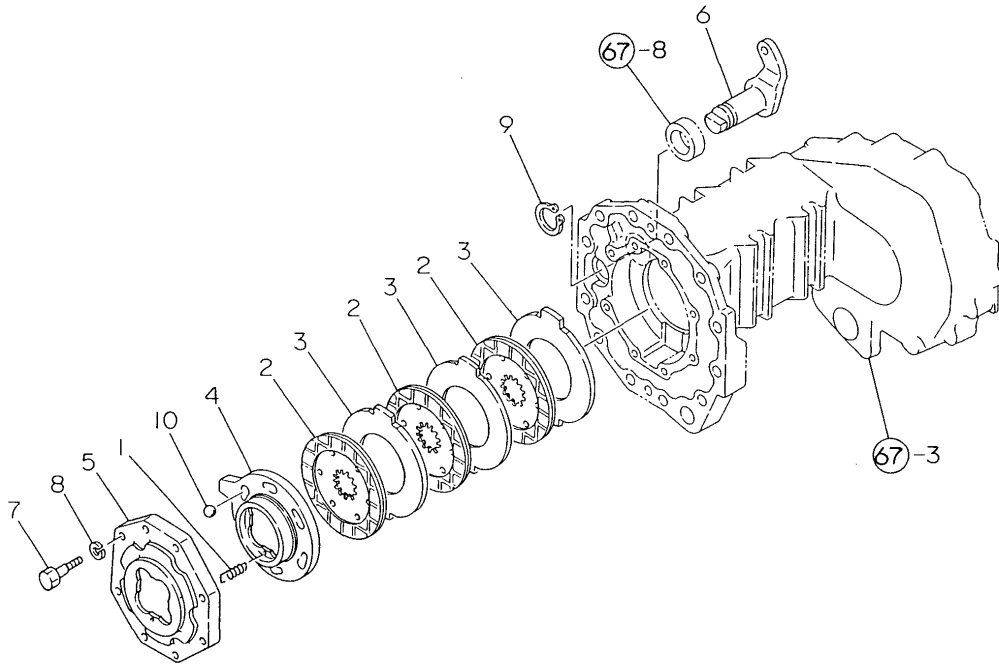
(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194515-36310	ACTUATOR L	1	1	1	1				
2	1	194205-36320	SPRING, ACTUATOR	2	2	2	2				
3	1	194515-36320	COVER, ACTUATER	1	1	1	1				
4	1	194515-36330	SHAFT, CAM LEVER	1	1	1	1				
5	1	194515-36381	PLATE 116, FRICTION	3	3	3	3				
6	1	194515-36390	PLATE 118, STEEL	3	3	3	3				
7	1	194515-36450	BOLT 8X30, REAMER	8	8	8	8				
8	1	22217-080000	SPRING WASHER 8	8	8	8	8				
9	1	22242-000250	CIRCLIP 25S	1	1	1	1				
10	1	24190-160001	BALL 1/2	6	6	6	6				

Fig.73. BRAKE (R)

Fig. 73 BRAKE (R)



OCT10-G24400 73. BRAKE (R)

(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

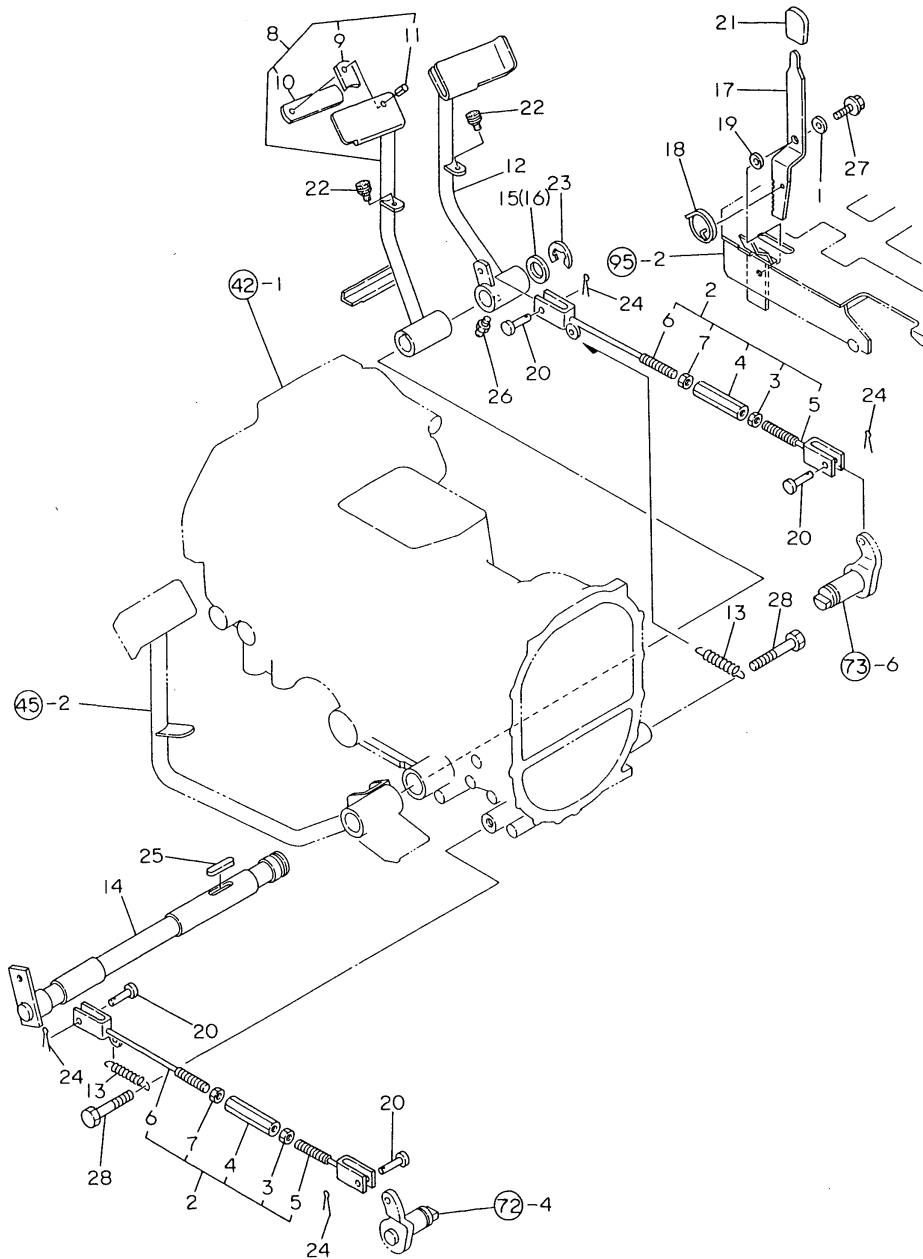
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194205-36320	SPRING, ACTUATOR	2	2	2	2				
2	1	194515-36381	PLATE 116, FRICTION	3	3	3	3				
3	1	194515-36390	PLATE 118, STEEL	3	3	3	3				
4	1	194515-36410	ACTUATOR R	1	1	1	1				
5	1	194515-36420	COVER, ACTUATOR	1	1	1	1				
6	1	194515-36430	SHAFT, CAM LEVER	1	1	1	1				
7	1	194515-36450	BOLT 8X30, REAMER	8	8	8	8				
8	1	22217-080000	SPRING WASHER 8	8	8	8	8				
9	1	22242-000250	CIRCLIP 25S	1	1	1	1				
10	1	24190-160001	BALL 1/2	6	6	6	6				

Fig.74. BRAKE PEDAL

(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

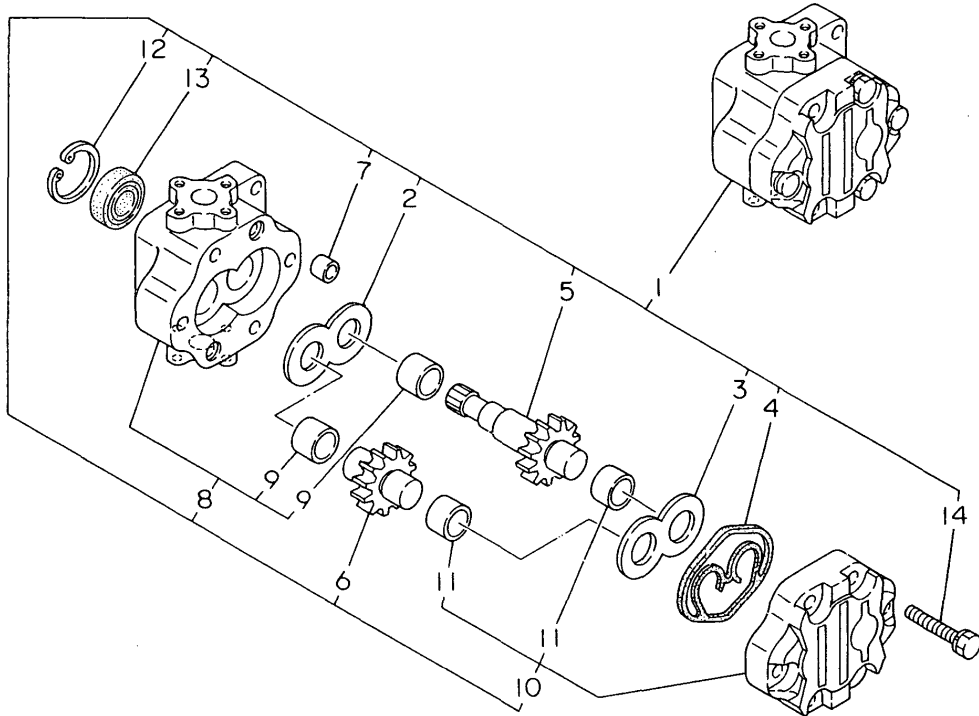
Fig. 74 BRAKE PEDAL



REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194145-01310	WASHER	1	1	1	1				
2	1	798290-37000	ROD KIT,BRAKE	2	2	2	2				
3	2	194150-22480	NUT M10	2	2	2	2				
4	2	194151-37730	TURNBUCKLE M10X90	2	2	2	2				
5	2	194130-37740	ROD, BRAKE	2	2	2	2				
6	2	198290-37750	SCREW,BRAKE ROD R	2	2	2	2				
7	2	26716-100002	NUT 10	2	2	2	2				
8	1	198010-37300	PEDAL L COMP.,BRAKE	1	1	1	1				
9	2	194150-37530	SPACER	1	1	1	1				
10	2	194940-37540	CONNECTOR,BRAKE PDL.	1	1	1	1				
11	2	22351-080018	SPRING PIN 8X18	1	1	1	1				
12	1	198010-37400	PEDAL R COMP.,BRAKE	1	1	1	1				
13	1	198290-37510	SPRING,RETURN	2	2	2	2				
14	1	198290-37550	SHAFT,BRAKEPEDAL(49)	1	1	1	1				
15	1	194130-37560	WASHER	1	1	1	1				
16	1	194150-37570	WASHER	1	1	1	1				
17	1	198290-37660	LEVER,BRAKE LOCK	1	1	1	1				
18	1	194110-37691	SPRING, RETURN	1	1	1	1				
19	1	194193-37700	COLLAR	1	1	1	1				
20	1	194080-37781	PIN 8X25	4	4	4	4				
21	1	194273-47910	KNOB	1	1	1	1				
22	1	194330-62530	STOPPER, PEDAL	2	2	2	2				
23	1	22272-000190	CIRCLIP E-19	1	1	1	1				
24	1	22417-200300	COTTER PIN 2.0X30	4	4	4	4				
25	1	22512-070400	KEY 7X 40	1	1	1	1				
26	1	24761-010000	NIPPLE M6F, GREASE	1	1	1	1				
27	1	26106-100202	BOLT M10X 20 PLATED	1	1	1	1				
28	1	26116-120602	BOLT M12X 60 PLATED	2	2	2	2				

Fig.75. HYDRAULIC PUMP

Fig. 75 HYDRAULIC PUMP



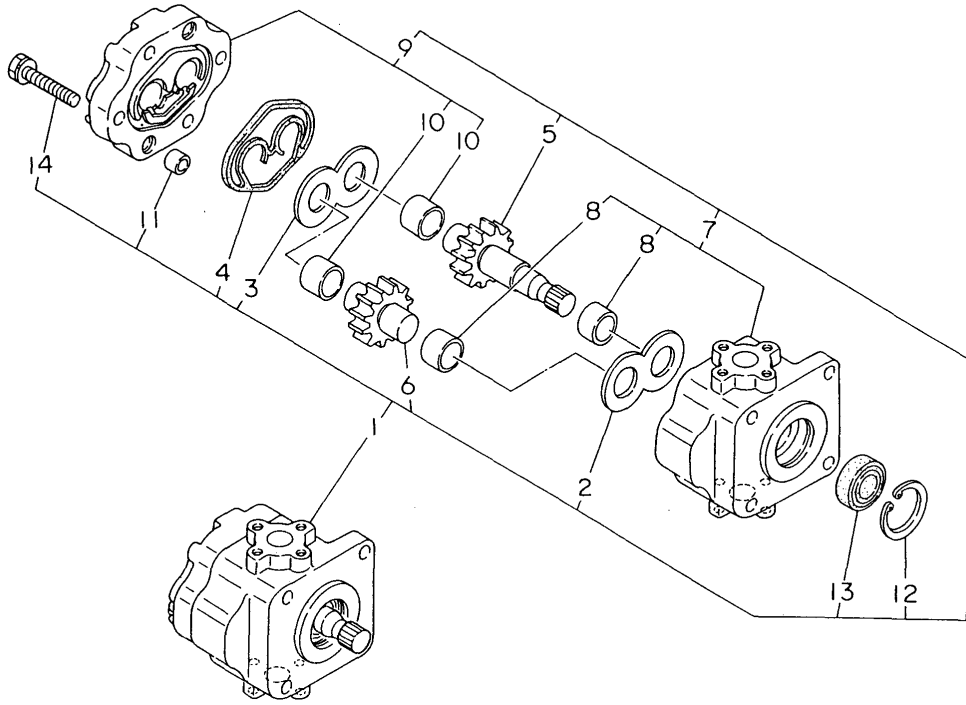
(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198010-41110	PUMP PW1-C-7A, HYDRO.	1	1	1	1				
2	2	178070-10300	PLATE A	1	1	1	1				
3	2	178070-10350	PLATE B	1	1	1	1				
4	2	178070-10400	RING	1	1	1	1				
5	2	178070-14050	GEAR 1	1	1	1	1				
6	2	178070-14070	GEAR 2	1	1	1	1				
7	2	194521-41570	PIN 11X7	2	2	2	2				
8	2	178070-96100	CASE, AIR CLEANER	1	1	1	1				
9	3	24550-018150	BUSH 18X15	2	2	2	2				
10	2	178070-96200	COVER, FAN CASE	1	1	1	1				
11	3	24550-018150	BUSH 18X15	2	2	2	2				
12	2	22252-000320	CIRCLIP 32	1	1	1	1				
13	2	24421-153207	SEAL TC15 32 07, OIL	1	1	1	1				
14	2	26016-080352	BOLT M 8X 35	4	4	4	4				

Fig.76. HYDRAULIC PUMP(POWER STEERING)

Fig. 76 HYDRAULIC PUMP (POWER STEERING)



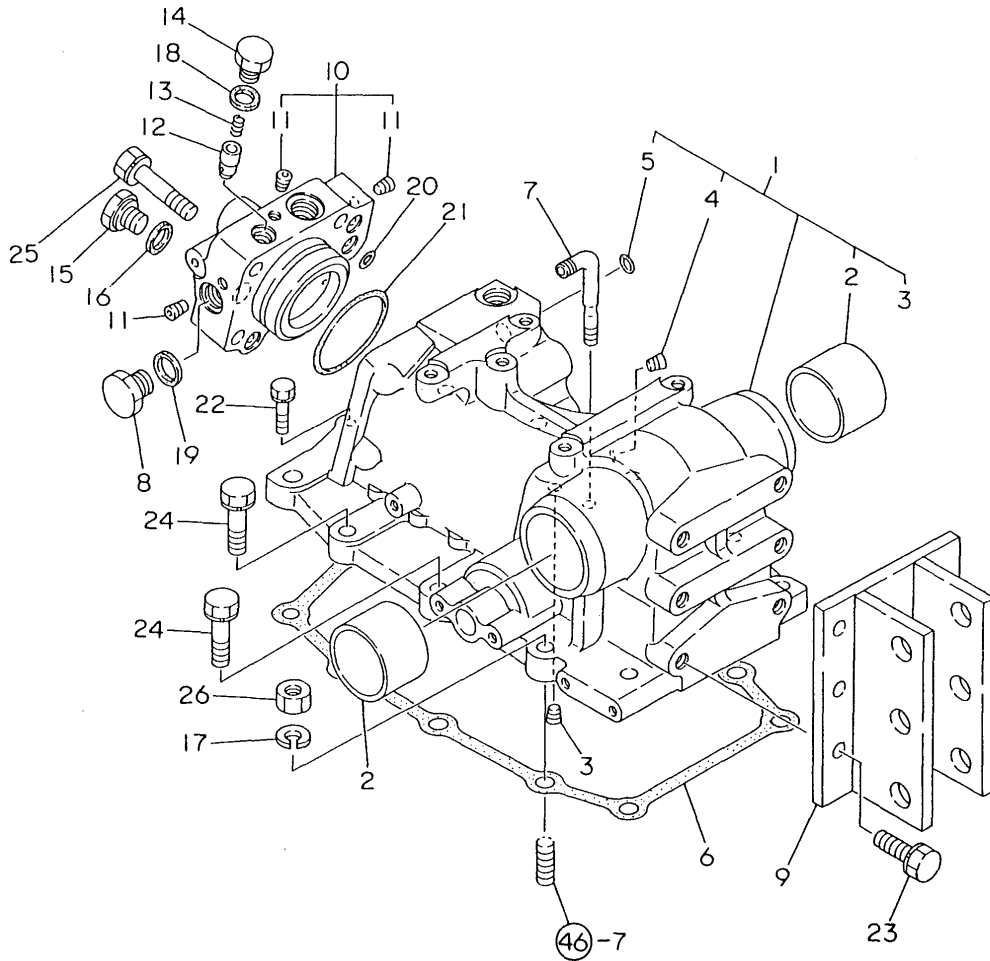
(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R	
				(A)	(B)	(C)	(D)	(E)	(F)			
1	1	198011-41110	PUMP PW1-C-4C, HYDRO.		1		1					
2	2	178070-10300	PLATE A		1		1					
3	2	178070-10350	PLATE B		1		1					
4	2	178070-10400	RING		1		1					
5	2	178070-11050	GEAR 1		1		1					
6	2	178070-11070	GEAR 2		1		1					
7	2	178070-11100	CASE, AIR CLEANER		1		1					
8	3	24550-018150	BUSH 18X15		2		2					
9	2	178070-21200	COVER, FAN CASE		1		1					
10	3	24550-018150	BUSH 18X15		2		2					
11	2	194521-41570	PIN 11X7		2		2					
12	2	22252-000320	CIRCLIP 32		1		1					
13	2	24421-153207	SEAL TC15 32 07, OIL		1		1					
14	2	26016-080352	BOLT M 8X 35		4		4					

Fig.77. HYDRAULIC CYLINDER CASE

Fig. 77 HYDRAULIC CYLINDER CASE



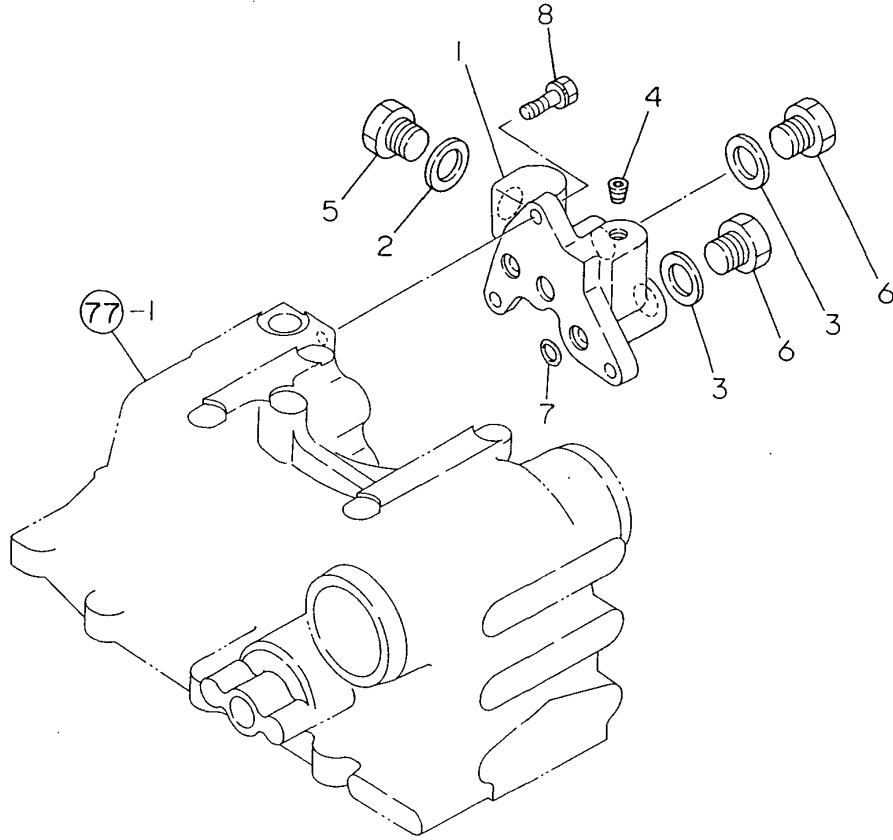
(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194515-42100	HOUSING, HYDRAULIC	1	1	1	1				
2	2	194150-42130	BUSH 50X55X40	2	2	2	2				
3	2	23871-010000	PLUG PT1/8,SCREW	1	1	1	1				
4	2	23871-020000	PLUG PT1/4,SCREW	1	1	1	1				
5	2	24311-000100	O-RING 1A P-10.0	1	1	1	1				
6	1	194515-42150	GASKET, HOUSING	1	1	1	1				
7	1	198330-42280	BREATHER,AIR	1	1	1	1				
8	1	194515-42310	PLUG 18	1	1	1	1				
9	1	194515-42810	HINGE, TOP LINK	1	1	1	1				
10	1	194515-43200	HEAD, CYLINDER	1	1	1	1				
11	2	23871-010000	PLUG PT1/8,SCREW	3	3	3	3				
12	1	194310-46350	POPPET, CHECK	1	1	1	1				
13	1	194310-46380	SPRING	1	1	1	1				
14	1	194310-46730	PLUG 14	1	1	1	1				
15	1	194312-46750	PLUG PF3/8	1	1	1	1				
16	1	194555-77910	GASKET	1	1	1	1				
17	1	22217-120000	SPRING WASHER 12	3	3	3	3				
18	1	23414-140018	GASKET 14	1	1	1	1				
19	1	23414-180023	GASKET 18	1	1	1	1				
20	1	24315-000110	O-RING 1B P-11.0	3	3	3	3				
21	1	24325-000650	O-RING 1B G-65.0	1	1	1	1				
22	1	26013-080352	BOLT M 8X 35	1	1	1	1				
23	1	26013-120302	BOLT W/WASHER M12X30	6	6	6	6				
24	1	26013-120402	BOLT M12X 40	7	7	7	7				
25	1	26013-120502	BOLT M12X 50	4	4	4	4				
26	1	26716-120002	NUT 12	3	3	3	3				

Fig.78. HYDRAULIC SIDE COVER

Fig. 78 HYDRAULIC SIDE COVER



OCT10-G24400 78. HYDRAULIC SIDE COVER

(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194555-42200	COVER,EXT.TAKE-OUT	1	1	1	1				
2	1	23414-180023	GASKET 18	1	1	1	1				
3	1	23414-200026	GASKET 20	2	2	2	2				
4	1	23871-010000	PLUG PT1/8,SCREW	1	1	1	1				
5	1	23887-180002	PLUG 18	1	1	1	1				
6	1	23887-200002	PLUG 20, HEX.	2	2	2	2				
7	1	24315-000110	O-RING 1B P-11.0	3	3	3	3				
8	1	26013-080252	BOLT M 8X 25	3	3	3	3				

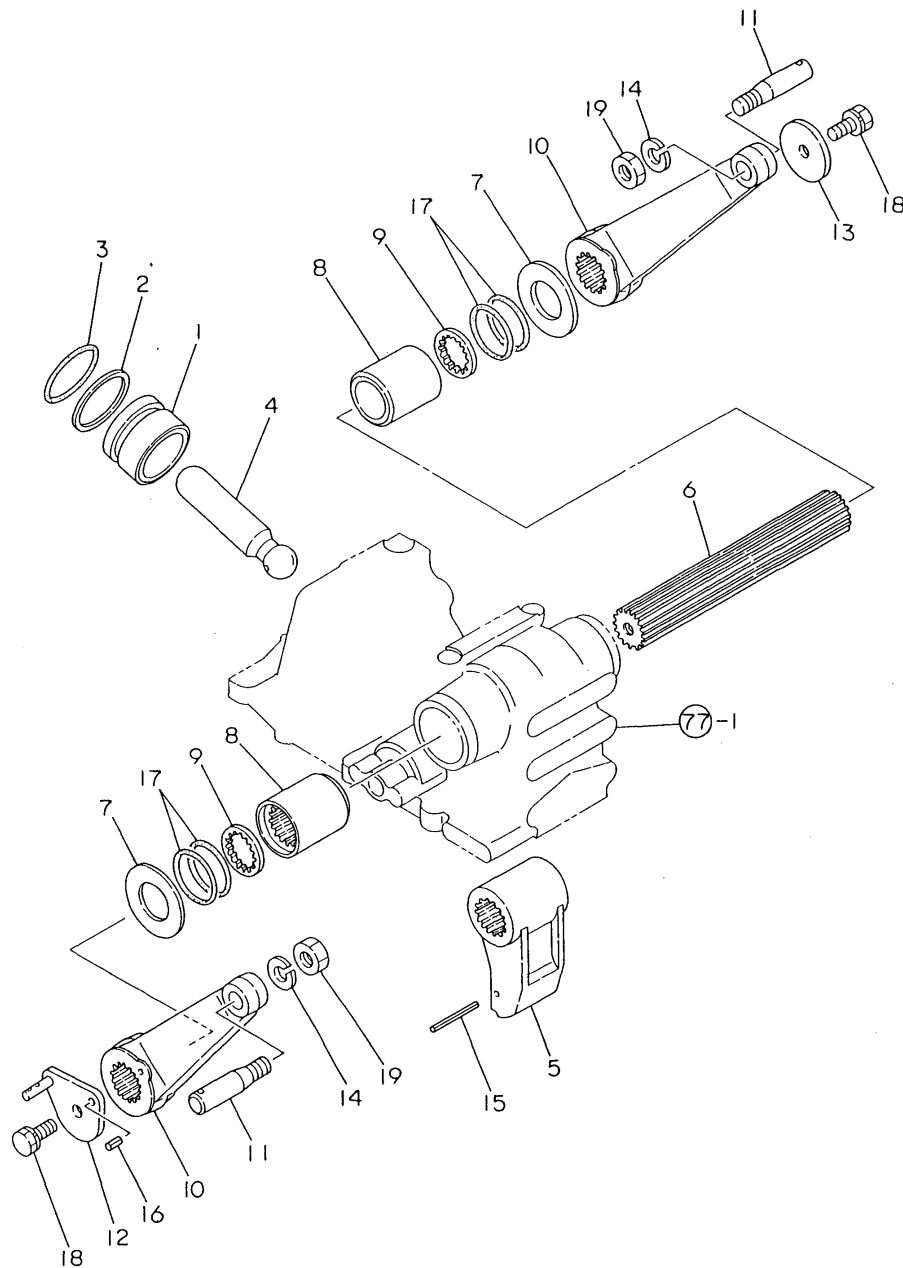


Fig.79. PISTON & LIFT CRANK

(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

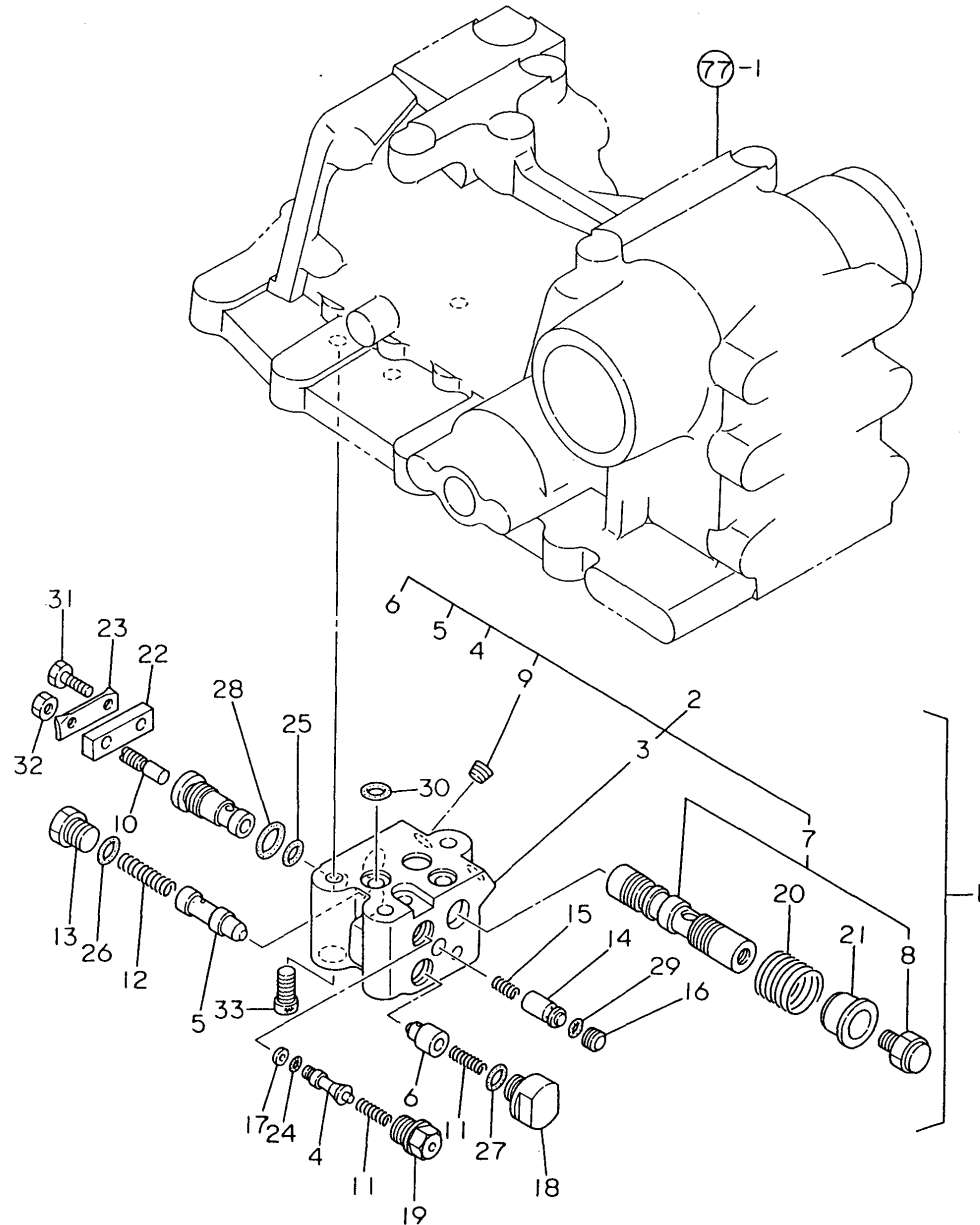
Fig. 79 PISTON & LIFT CRANK



REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194515-43310	PISTON, HYDRAULIC	1	1	1	1				
2	1	194520-43350	RING, BACK UP	1	1	1	1				
3	1	24311-000600	O-RING 1A P-60.0	1	1	1	1				
4	1	194310-43410	ROD, PISTON	1	1	1	1				
5	1	194515-44110	CRANK, LIFT	1	1	1	1				
6	1	194515-44210	SHAFT, LIFT	1	1	1	1				
7	1	194282-44230	WASHER 40X73X3.2	2	2	2	2				
8	1	194150-44251	SLEEVE, LIFT SHAFT	2	2	2	2				
9	1	194150-44261	SEAL, SPLINE SHAFT	2	2	2	2				
10	1	198290-44420	ARM L,LIFT	2	2	2	2				
11	1	194130-44480	PIN, LIFT ARM	2	2	2	2				
12	1	194515-44510	ARM, FEED BACK	1	1	1	1				
13	1	194150-44530	WASHER 12X60X6	1	1	1	1				
14	1	22217-160000	SPRING WASHER 16	2	2	2	2				
15	1	22351-050056	SPRING PIN 5X56	1	1	1	1				
16	1	22351-060016	SPRING PIN 6X16	1	1	1	1				
17	1	24321-000500	O-RING 1A G-50.0	4	4	4	4				
18	1	26013-120252	BOLT M12X 25	2	2	2	2				
19	1	26736-160002	NUT M16	2	2	2	2				

Fig.80. CONTROL VALVE

Fig. 80 CONTROL VALVE



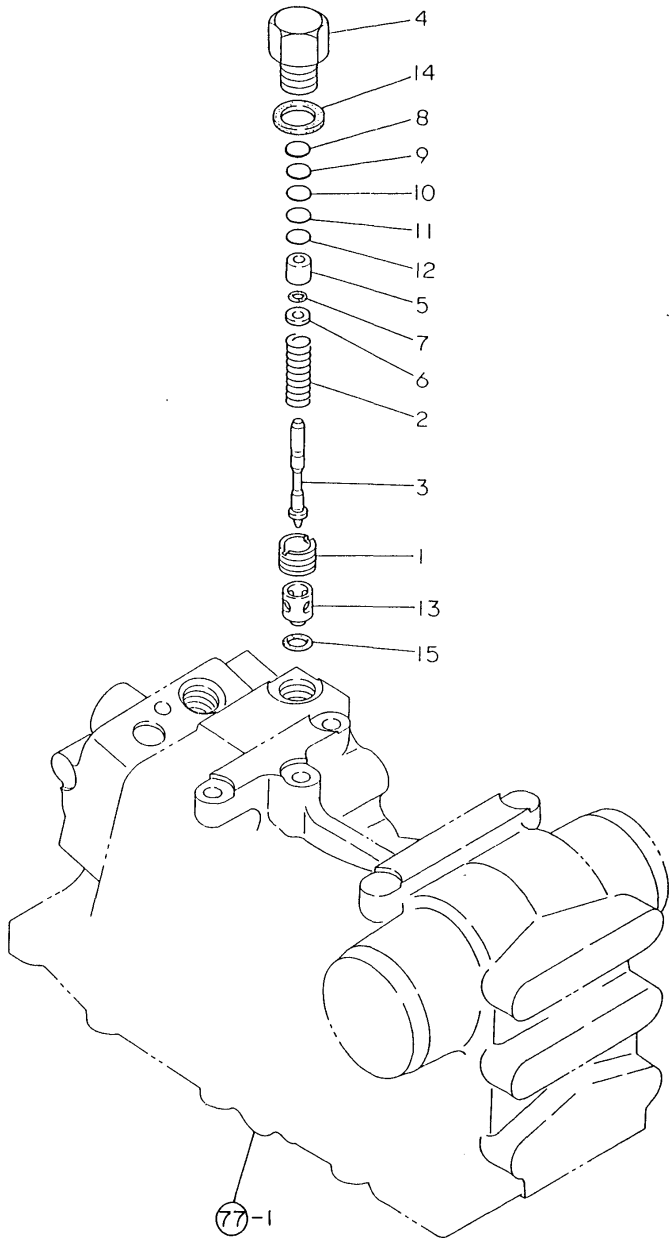
(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194515-45101	VALVE COMP.,CONTROL	1	1	1	1				
2	2	194515-45120	BODY COMP.,VALVE	1	1	1	1				
3	3	194170-45112	BODY, VALVE	1	1	1	1				
4	3	194555-45211	POPPET,	1	1	1	1				
5	3	194170-45310	POPPET	1	1	1	1				
6	3	194170-45420	POPPET	1	1	1	1				
7	3	194515-45500	SPOOL COMPL.	1	1	1	1				
8	4	194555-45540	PIN,SPOOL	1	1	1	1				
9	3	23871-010000	PLUG PT1/8,SCREW	2	2	2	2				
10	2	194170-45220	BAR, PUSH	1	1	1	1				
11	2	194170-45230	SPRING	2	2	2	2				
12	2	194170-45321	SPRING	1	1	1	1				
13	2	194170-45330	PLUG	1	1	1	1				
14	2	194170-45350	SPOOL	1	1	1	1				
15	2	194170-45360	SPRING	1	1	1	1				
16	2	194170-45370	PLUG	1	1	1	1				
17	2	194170-45430	RING, BACK UP	1	1	1	1				
18	2	194170-45440	PLUG	1	1	1	1				
19	2	198421-45440	HOLDER, M.CHECK	1	1	1	1				
20	2	194170-45520	SPRING, SPOOL	1	1	1	1				
21	2	194170-45530	STOPPER, SPOOL	1	1	1	1				
22	2	194170-45550	BAR, SPOOL	1	1	1	1				
23	2	194170-45560	WASHER 12X40X0.6	1	1	1	1				
24	2	24311-000050	O-RING 1A P-5.0	1	1	1	1				
25	2	24311-000100	O-RING 1A P-10.0	1	1	1	1				
26	2	24311-000120	O-RING 1A P 12.0	1	1	1	1				
27	2	24311-000120	O-RING 1A P 12.0	1	1	1	1				
28	2	24311-000140	O-RING 1A P-14.0	1	1	1	1				
29	2	24315-000070	O-RING 1B P-7.0	1	1	1	1				
30	2	24315-000110	O-RING 1B P-11.0	3	3	3	3				
31	2	26116-060162	BOLT 6X16	1	1	1	1				
32	2	26756-060002	LOCK NUT 6	1	1	1	1				
33	1	26450-080202	BOLT M 8X 20	3	3	3	3				

Fig.81. RELIEF VALVE

Fig. 81 RELIEF VALVE



OCT10-G24400 81. RELIEF VALVE

(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

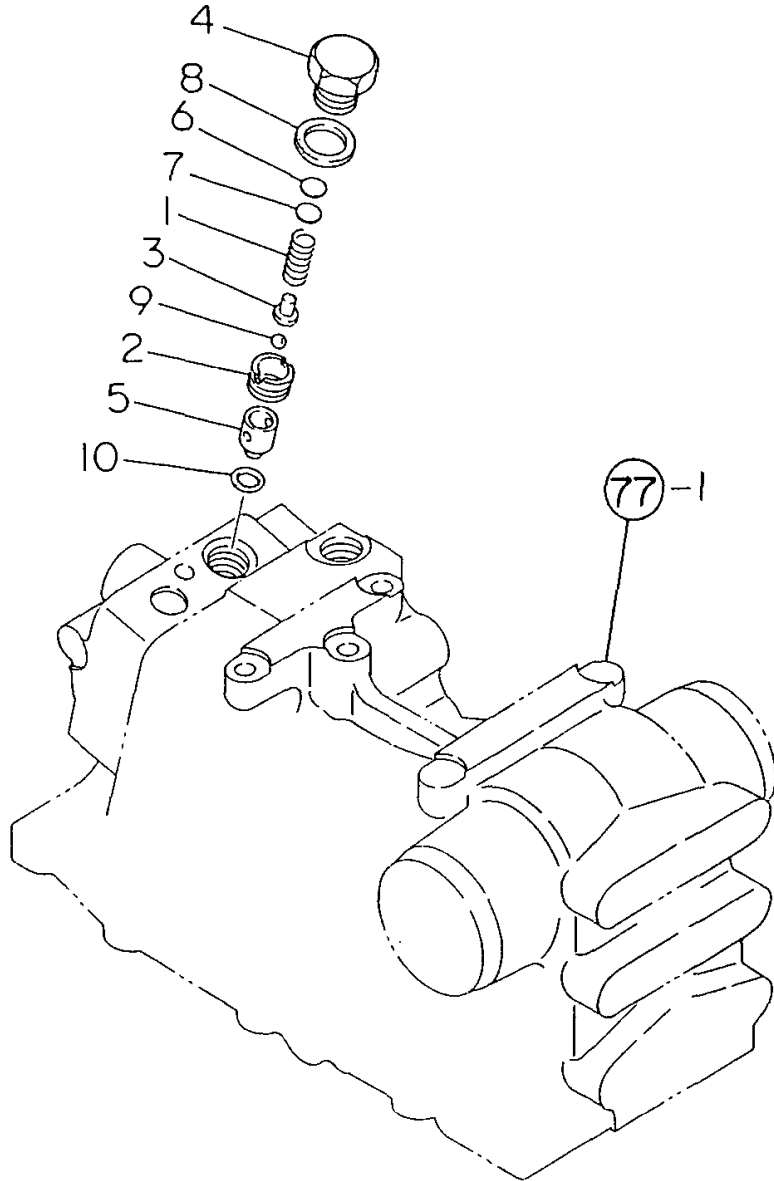
REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194275-45340	SCREW, VALVE SEAT	1	1	1	1				
2	1	194170-45610	SPRING,RELIEF VALVE	1	1	1	1				
3	1	194195-45620	POPPET	1	1	1	1				
4	1	194195-45630	PLUG, RELIEF VALVE	1	1	1	1				
5	1	194195-45640	SEAT, SPRING	1	1	1	1				
6	1	194195-45650	WASHER	1	1	1	1				
7	1	194195-45660	O-RING 6X1.8	1	1	1	1				
I 8	1	194170-45700	SHIM (T=0.1)	1	1	1	1				
I 9	1	194170-45710	SHIM (T=0.2)	1	1	1	1				
I 10	1	194170-45720	SHIM (T=0.3)	1	1	1	1				
I 11	1	194170-45730	SHIM (T=0.5)	1	1	1	1				
I 12	1	194170-45740	SHIM (T=1.0)	1	1	1	1				
13	1	194195-46260	SEAT, RELIEF VALVE	1	1	1	1				
14	1	23414-200026	GASKET 20	1	1	1	1				
15	1	24311-000120	O-RING 1A P 12.0	1	1	1	1				



(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

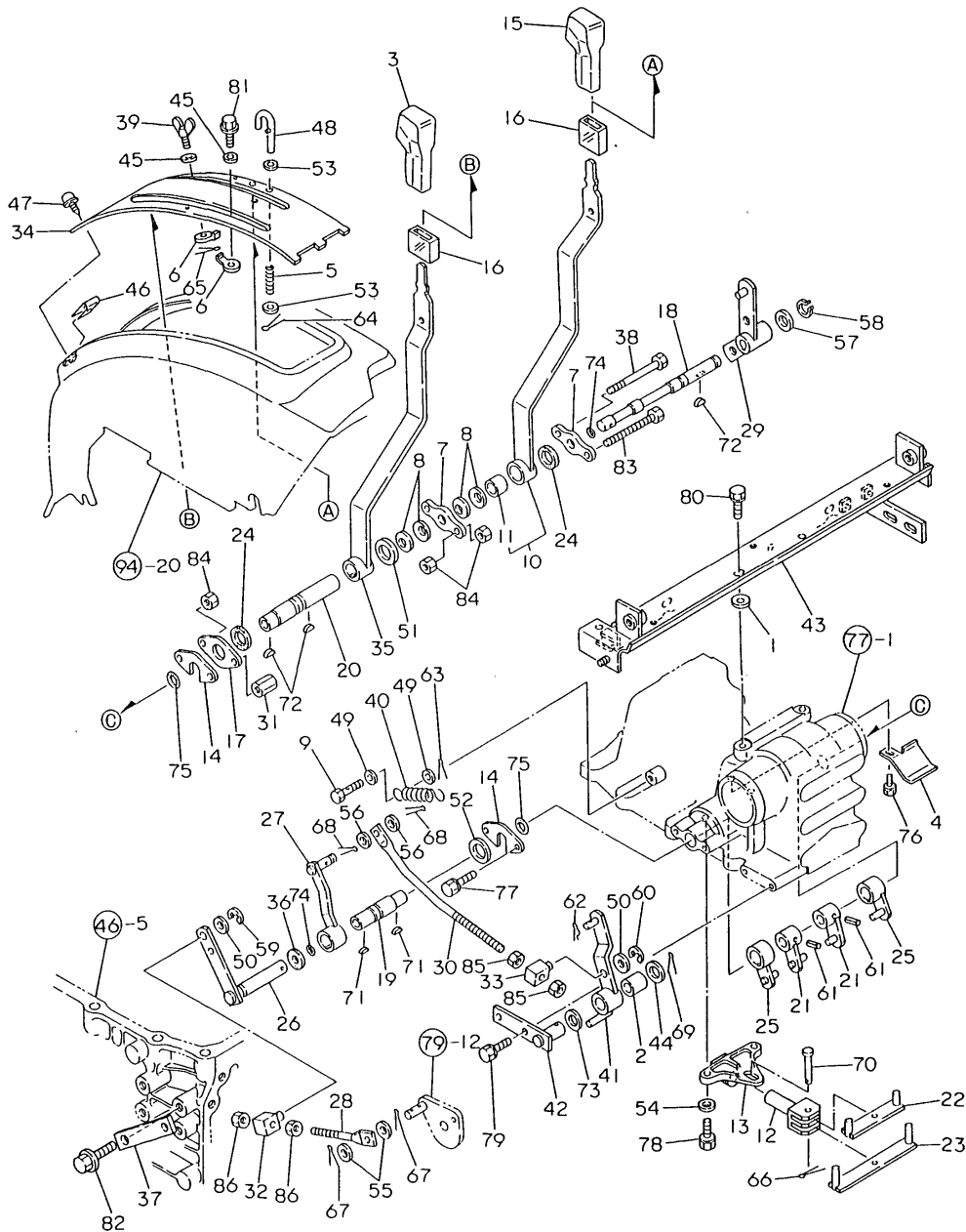
# Fig. 83 SAFETY VALVE



REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194150-45320	SPRING, RELIEF VALVE	1	1	1	1				
2	1	194150-45340	SCREW, VALVE SEAT	1	1	1	1				
3	1	194150-45361	HOLDER, RELIEF VALVE	1	1	1	1				
4	1	194151-45370	PLUG, RELIEF VALVE	1	1	1	1				
5	1	194151-46261	SEAT, RELIEF VALVE	1	1	1	1				
6	1	110250-53410	SHIM T=0.2	1	1	1	1				
7	1	110250-53430	SHIM T=0.5	1	1	1	1				
8	1	23414-200026	GASKET 20	1	1	1	1				
9	1	24190-080003	BALL 1/4	1	1	1	1				
10	1	24311-000120	O-RING 1A P 12.0	1	1	1	1				

Fig.84. HYDRAULIC CONTROL

Fig. 84 HYDRAULIC CONTROL



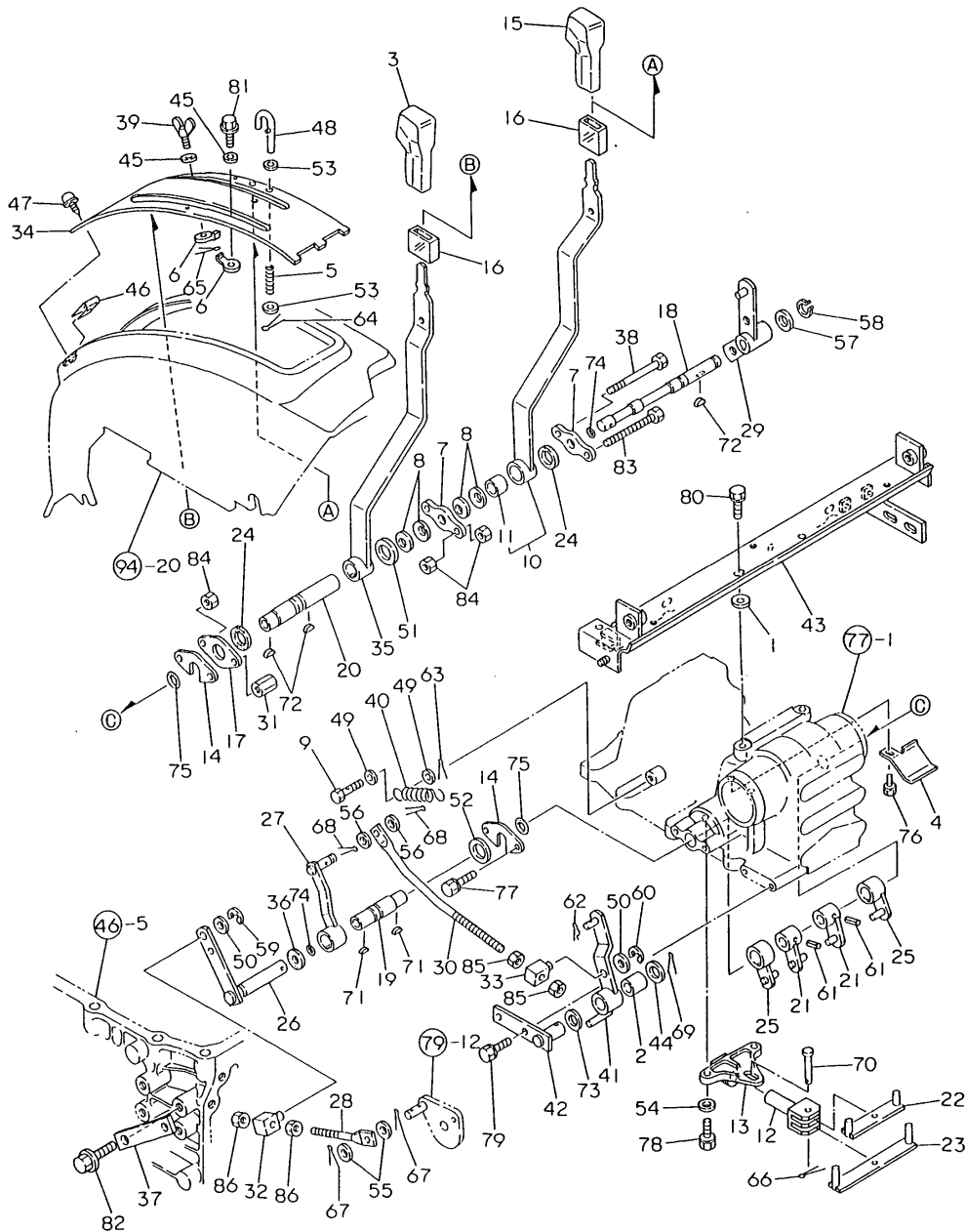
(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194150-01270	SPACER 20	2	2	2	2				
2	1	194310-21210	BUSH 15X20X25	1	1	1	1				
3	1	198331-28520	KNOB,HI-GRIP	1	1	1	1				
4	1	198290-42290	GUARD,OIL	1	1	1	1				
5	1	194312-45320	SPRING	1	1	1	1				
6	1	194550-47110	STOPPER	2	2	2	2				
7	1	194940-47210	PLATE	2	2	2	2				
8	1	194940-47220	WASHER 20,SPRING	4	4	4	4				
9	1	194515-47310	HOOK, SPRING	1	1	1	1				
10	1	198010-47320	LEVER COMP.,POS.CONT	1	1	1	1				
11	2	194940-47230	BUSH 19X22X15	1	1	1	1				
12	1	198360-47320	ROD, CONTROL	1	1	1	1				
13	1	198360-47330	PLATE, CONTROL	1	1	1	1				
14	1	194555-47340	PLATE (A)	2	2	2	2				
15	1	194940-47341	KNOB,POSITION LEVER	1	1	1	1				
16	1	198010-47340	PIPE, PROTECTOR	2	2	2	2				
17	1	194555-47350	PLATE	1	1	1	1				
18	1	198360-47380	SHAFT,POSIT.CONTROL	1	1	1	1				
19	1	194555-47390	SHAFT, CONTROL	1	1	1	1				
20	1	198360-47390	SHAFT,DRAFT CONTROL	1	1	1	1				
21	1	194555-47401	ARM P,CONTROL	2	2	2	2				
22	1	198360-47420	BAR,POSITION CONTROL	1	1	1	1				
23	1	198360-47430	BAR,DRAFT CONTROL	1	1	1	1				
24	1	194170-47440	PLATE, FRICTION	2	2	2	2				
25	1	194555-47440	ARM, CONTROL	2	2	2	2				
26	1	194515-47450	ARM, FEED BACK	1	1	1	1				
27	1	198330-47480	ARM COMP.,FEEDBACK	1	1	1	1				
28	1	194515-47490	ROD, FEED BACK	1	1	1	1				
29	1	198010-47500	LEVER,BACKUP	1	1	1	1				
30	1	198330-47500	ROD,DRAFT FEEDBACK	1	1	1	1				
31	1	194640-47510	NUT M 8	1	1	1	1				
32	1	194550-47530	ADJUSTER	1	1	1	1				
33	1	194550-47530	ADJUSTER	1	1	1	1				
34	1	198010-47600	GUIDE ASSY, LEVER	1	1	1	1				
35	1	198010-47700	LEVER, CONTROL	1	1	1	1				
36	1	194310-47790	PLATE, FRICTION	1	1	1	1				
37	1	198036-47810	PLATE, STOPPER	1	1	1	1				
38	1	198360-47810	BOLT 8X80	1	1	1	1				
39	1	198361-47840	BOLT, WING	1	1	1	1				
40	1	194515-47850	SPRING, RETURN	1	1	1	1				
41	1	194515-47860	LINK, FEED BACK	1	1	1	1				
42	1	194555-47870	PLATE, FEED BACK	1	1	1	1				
43	1	198010-47890	STOPPER, LEVER	1	1	1	1				
44	1	194550-47910	SPACER 15X28X2	1	1	1	1				
45	1	194740-55430	SPRING WASHER 8	2	2	2	2				
46	1	194167-61650	NUT 5008	2	2	2	2				
47	1	194940-61790	SCREW 5X16	2	2	2	2				
48	1	194555-62990	STOPPER	1	1	1	1				
49	1	22117-080000	WASHER 8	2	2	2	2				
50	1	22117-100000	WASHER 10	2	2	2	2				
51	1	22117-200000	WASHER 20	1	1	1	1				

Fig.84. HYDRAULIC CONTROL

Fig. 84 HYDRAULIC CONTROL



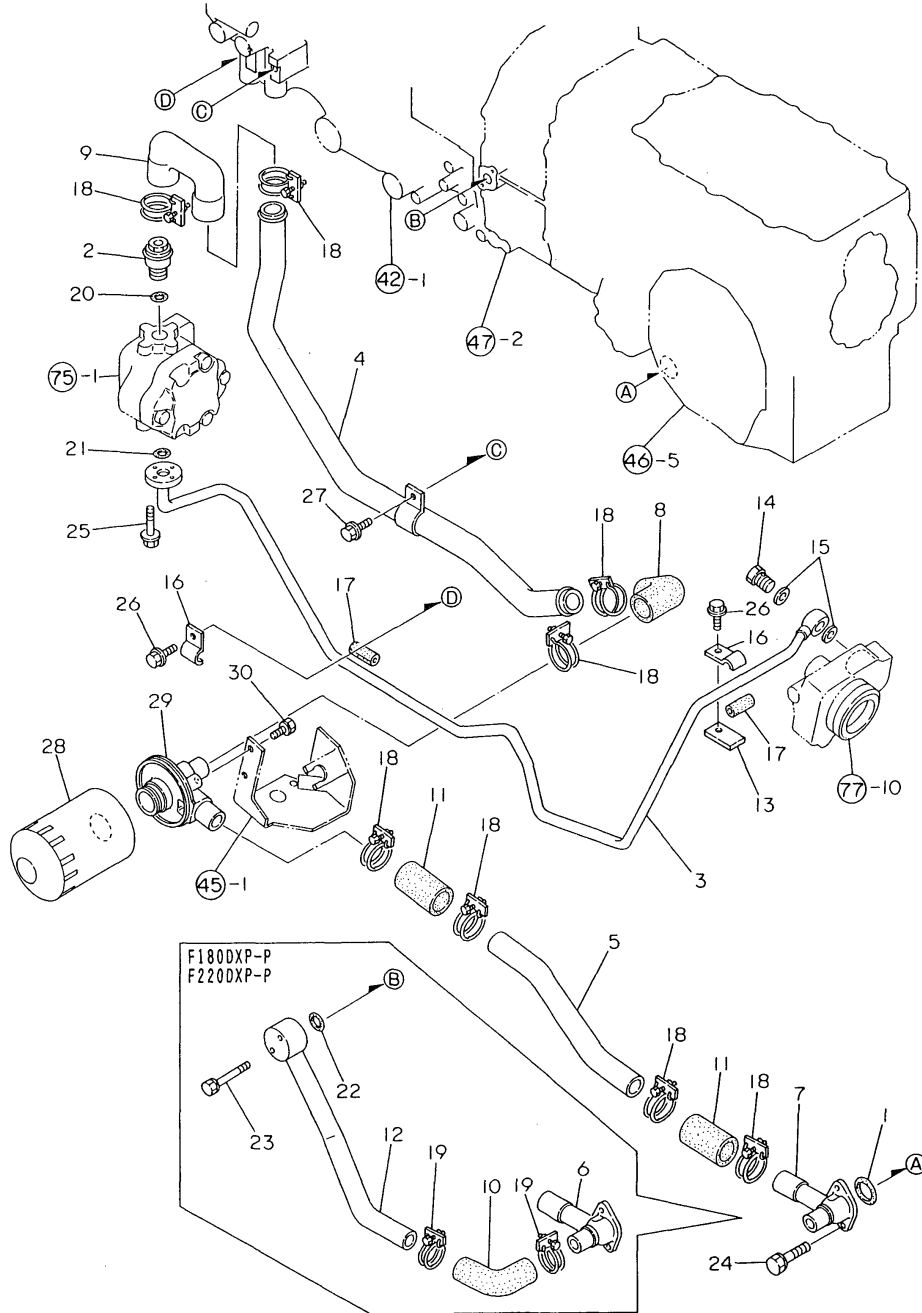
(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
52	1	22117-200000	WASHER 20	1	1	1	1				
53	1	22137-060000	WASHER 6, POLISHED	2	2	2	2				
54	1	22137-080000	WASHER 8, POLISHED	2	2	2	2				
55	1	22137-100000	WASHER 10, POLISHED	2	2	2	2				
56	1	22137-100000	WASHER 10, POLISHED	2	2	2	2				
57	1	22137-120000	WASHER 12, POLISHED	1	1	1	1				
58	1	22242-000120	CIRCLIP 12	1	1	1	1				
59	1	22272-000070	CIRCLIP E- 7	1	1	1	1				
60	1	22272-000070	CIRCLIP E- 7	1	1	1	1				
61	1	22351-050032	SPRING PIN 5X32	2	2	2	2				
62	1	22372-080000	SNAP PIN (JASO 8)	1	1	1	1				
63	1	22417-200150	COTTER PIN 2.0X15	1	1	1	1				
64	1	22417-200200	COTTER PIN 2.0X20	1	1	1	1				
65	1	22417-200200	COTTER PIN 2.0X20	1	1	1	1				
66	1	22417-200200	COTTER PIN 2.0X20	1	1	1	1				
67	1	22417-250200	COTTER PIN 2.5X20	2	2	2	2				
68	1	22417-250200	COTTER PIN 2.5X20	2	2	2	2				
69	1	22417-300250	COTTER PIN 3.0X 25	1	1	1	1				
70	1	22487-080350	PIN 8X 35	1	1	1	1				
71	1	22522-030130	WOODRUFF KEY 3X13	2	2	2	2				
72	1	22522-030130	WOODRUFF KEY 3X13	3	3	3	3				
73	1	23414-160000	GASKET 16, ROUND	1	1	1	1				
74	1	24311-000090	O-RING 1A P-9.0	2	2	2	2				
75	1	24311-000160	O-RING 1A P-16.0	2	2	2	2				
76	1	26013-080122	BOLT M 8X 12	1	1	1	1				
77	1	26013-080162	BOLT W/WASHER M8X16	2	2	2	2				
78	1	26013-080202	BOLT W/WASHER M8X20	2	2	2	2				
79	1	26013-080202	BOLT W/WASHER M8X20	2	2	2	2				
80	1	26013-100202	BOLT W/WASHER M10X20	2	2	2	2				
81	1	26106-080202	BOLT M 8X 20 PLATED	1	1	1	1				
82	1	26106-100252	BOLT M10X 25 PLATED	1	1	1	1				
83	1	26116-080804	BOLT M 8X 80 PLATED	1	1	1	1				
84	1	26716-080002	NUT M 8	3	3	3	3				
85	1	26716-100002	NUT 10	2	2	2	2				
86	1	26716-100002	NUT 10	2	2	2	2				

Fig.85. HYDRAULIC PIPING

Fig. 85 HYDRAULIC PIPING



(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194180-26690	O-RING 2035	1	1	1	1				
2	1	198010-41210	JOINT M22	1	1	1	1				
3	1	198010-48110	PIPE,HI-PRESSURE(49)	1	1	1	1				
4	1	198010-48160	PIPE,LO-PRESSURE(49)	1	1	1	1				
5	1	198010-48190	PIPE B,LOW-PRESSURE	1	1	1	1				
6	1	194515-48210	BEND		1		1				
7	1	194565-48210	BEND	1			1				
8	1	194640-48220	HOSE, LOW PRESSURE	1	1	1	1				
9	1	198010-48220	HOSE,MAN LOW-PRESS.	1	1	1	1				
10	1	194630-48230	HOSE, LOW PRESURE		1		1				
11	1	194640-48240	HOSE, LOW PRESSURE	2	2	2	2				
12	1	194515-48320	PIPE, SUCTION		1		1				
13	1	198330-48410	CLAMP	1	1	1	1				
14	1	194130-48650	BOLT 18, JOINT	1	1	1	1				
15	1	194320-48660	GASKET 18	2	2	2	2				
16	1	194450-48830	CLAMP	2	2	2	2				
17	1	194464-48850	RUBBER	2	2	2	2				
18	1	121267-49500	CLAMP 38	8	8	8	8				
19	1	23010-035000	CLAMP 35		2		2				
20	1	24311-000200	O-RING 1A P-20.0	1	1	1	1				
21	1	24311-000200	O-RING 1A P-20.0	1	1	1	1				
22	1	24311-000200	O-RING 1A P-20.0		1		1				
23	1	26013-060452	BOLT M 6X 45		2		2				
24	1	26013-080252	BOLT M 8X 25	2	2	2	2				
25	1	26106-060202	BOLT M 6X 20 PLATED	4	4	4	4				
26	1	26106-080162	BOLT M 8X 16 PLATED	2	2	2	2				
27	1	26106-080162	BOLT M 8X 16 PLATED	1	1	1	1				
28	1	194250-48310	FILTER, HYDRAULIC	1	1	1	1				
29	1	198290-48360	COVER,FILTER	1	1	1	1				
30	1	26106-080202	BOLT M 8X 20 PLATED	2	2	2	2				

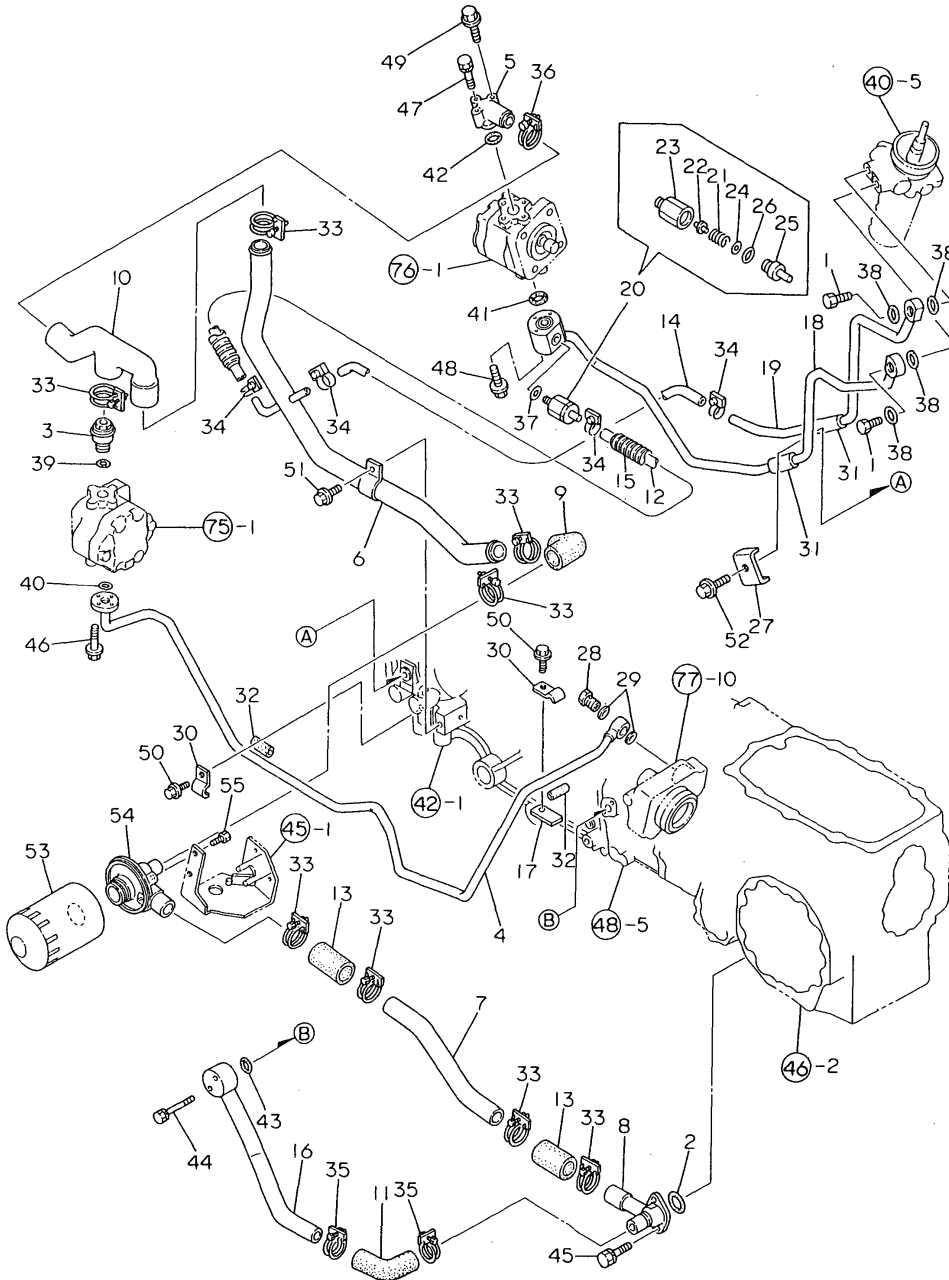


Fig.86. HYDRAULIC PIPING(POWER STEERIN

(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

Fig. 86 HYDRAULIC PIPING (POWER STEERING)



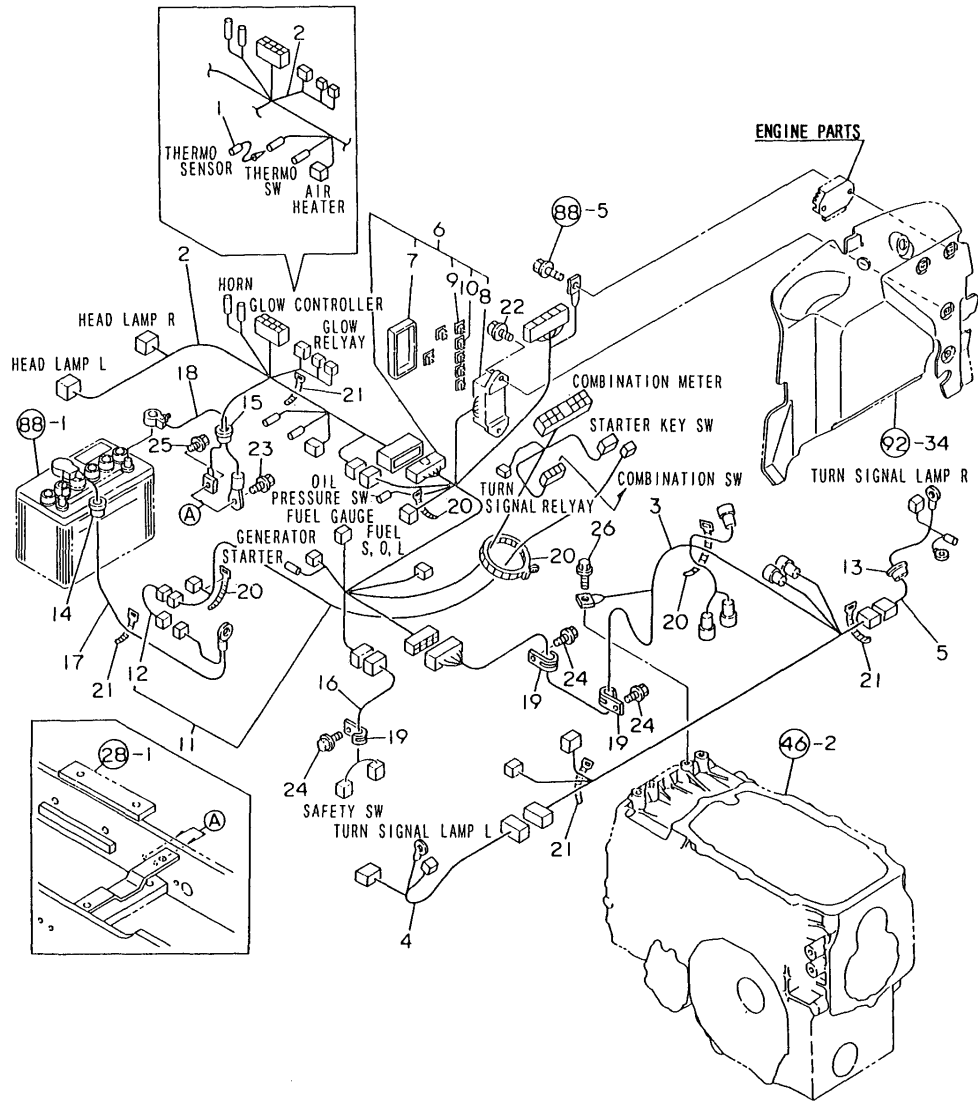
REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194556-17780	BOLT M16, JOINT		2		2				
2	1	194180-26690	O-RING 2035		1		1				
3	1	198010-41210	JOINT M22		1		1				
4	1	198010-48110	PIPE,HI-PRESSURE(49)		1		1				
5	1	198220-48140	FLANGE		1		1				
6	1	198011-48160	LINE, DRAIN		1		1				
7	1	198010-48190	PIPE B,LOW-PRESSURE		1		1				
8	1	194515-48210	BEND		1		1				
9	1	194640-48220	HOSE, LOW PRESSURE		1		1				
10	1	198011-48220	HOSE,PST.LOW-PRESS.		1		1				
11	1	194630-48230	HOSE, LOW PRESURE		1		1				
12	1	198011-48230	HOSE, RETURN		1		1				
13	1	194640-48240	HOSE, LOW PRESSURE		2		2				
14	1	198011-48250	HOSE, RETURN		1		1				
15	1	198011-48260	PIPE 19, CORRUGAT		1		1				
16	1	194515-48320	PIPE, SUCTION		1		1				
17	1	198330-48410	CLAMP		1		1				
18	1	198011-48500	LINE, PUMP		1		1				
19	1	198011-48551	PIPE,PST.RET.LW-PRES		1		1				
20	1	198011-48601	VALVE ASSY, RELIEF		1		1				
21	2	158870-17520	SPRING,RELIEF		1		1				
22	2	158870-17610	POPPET		1		1				
23	2	198011-48611	HOLDER, VALVE		1		1				
24	2	198011-48620	SHIM 0.2		1		1				
25	2	198011-48631	PLUG, VALVE		1		1				
26	2	24311-000180	O-RING 1A P-18.0		1		1				
27	1	194470-48630	CLAMP		1		1				
28	1	194130-48650	BOLT 18, JOINT		1		1				
29	1	194320-48660	GASKET 18		2		2				
30	1	194450-48830	CLAMP		2		2				
31	1	194130-48850	PIPE		2		2				
32	1	194464-48850	RUBBER		2		2				
33	1	121267-49500	CLAMP 38		8		8				
34	1	23010-016000	CLAMP 16		4		4				
35	1	23010-035000	CLAMP 35		2		2				
36	1	23010-035000	CLAMP 35		1		1				
37	1	23414-120016	GASKET 12		1		1				
38	1	23414-160021	GASKET 16		4		4				
39	1	24311-000200	O-RING 1A P-20.0		1		1				
40	1	24311-000200	O-RING 1A P-20.0		1		1				
41	1	24311-000200	O-RING 1A P-20.0		1		1				
42	1	24311-000200	O-RING 1A P-20.0		1		1				
43	1	24311-000200	O-RING 1A P-20.0		1		1				
44	1	26013-060452	BOLT M 6X 45		2		2				
45	1	26013-080252	BOLT M 8X 25		2		2				
46	1	26106-060202	BOLT M 6X 20 PLATED		4		4				
47	1	26106-060202	BOLT M 6X 20 PLATED		1		1				
48	1	26106-060402	BOLT M 6X 40 PLATED		3		3				
49	1	26106-060402	BOLT M 6X 40 PLATED		2		2				
50	1	26106-080162	BOLT M 8X 16 PLATED		2		2				
51	1	26106-080162	BOLT M 8X 16 PLATED		1		1				

N:Old  $\begin{matrix} \leftarrow \text{Yes} \\ \text{No} \end{matrix}$  New, Q:Old  $\begin{matrix} \leftarrow \text{No} \\ \text{Yes} \end{matrix}$  New, R:Old  $\begin{matrix} \leftarrow \text{Yes} \\ \text{Yes} \end{matrix}$  New, S:Old  $\begin{matrix} \leftarrow \text{No} \\ \text{No} \end{matrix}$  New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change  
++ CONTINUE ++  
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Fig.87. WIRE HARNESS

Fig. 87 WIRE HARNESS



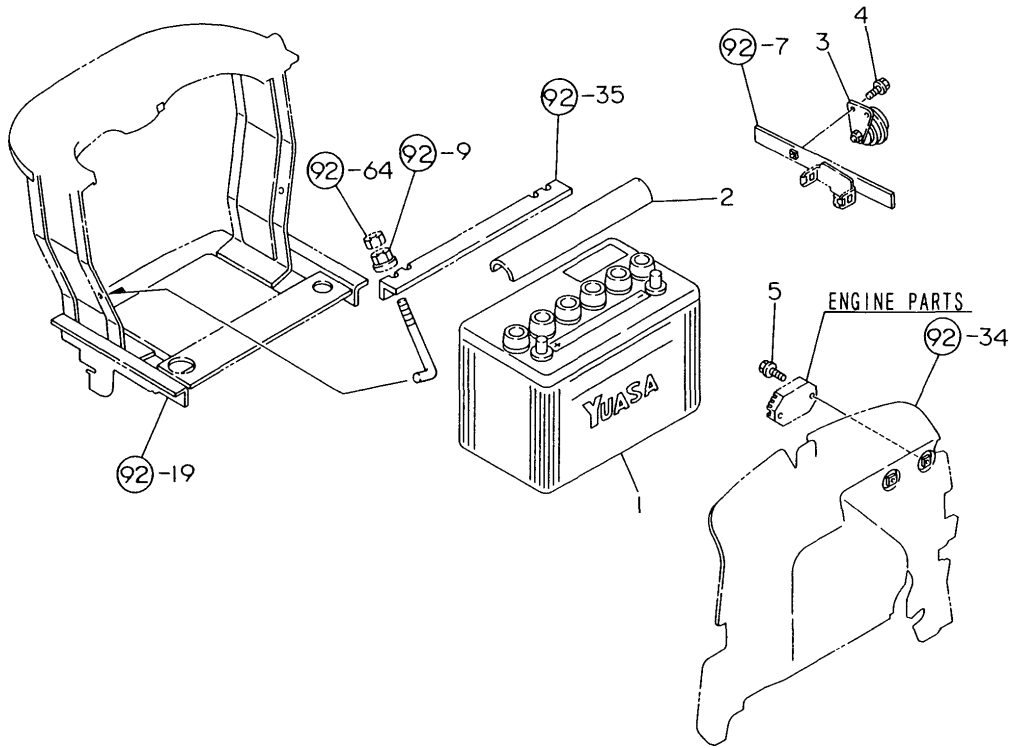
(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
I	1	198010-51080		3	3	3	3				
	2	198010-51110	HARNESS, WIRE	1	1	1	1				
	3	198010-51120	HARNESS B,WIRE	1	1	1	1				
	4	198010-51130	HARNESS C,WIRE	1	1	1	1				
	5	198010-51140	HARNESS D,WIRE	1	1	1	1				
	6	198010-51150	HARNESS F COMP.,WIRE	1	1	1	1				
	7	198010-52430	COVER, FUSE BOX	1	1	1	1				
	8	198010-52440	BODY,FUSE BOX	1	1	1	1				
	9	198220-52820	FUSE 5A	5	5	5	5				
	10	198220-52840	FUSE 15A	2	2	2	2				
	11	198010-51180	HARNESS CMP,STR.WIRE	1	1	1	1				
	12	194550-51220	LINK,FUSIBLE 0.85RED	1	1	1	1				
	13	194170-51210	GROMMET 25	1	1	1	1				
	14	198220-51210	GROMMET	1	1	1	1				
	15	198245-51210	GROMMET 25	1	1	1	1				
	16	198010-51230	CORD,SAFETY STRT.SW.	1	1	1	1				
	17	198220-51410	CABLE, BATTERY	1	1	1	1				
	18	194250-51420	CABLE, BATTERY EARTH	1	1	1	1				
	19	194440-51620	CLAMP, WIRE HARNESS	3	3	3	3				
	20	194250-51660	BAND 250	4	4	4	4				
	21	121750-59890	CLAMP 140	4	4	4	4				
	22	26106-060162	BOLT M 6X 16 PLATED	2	2	2	2				
	23	26106-080162	BOLT M 8X 16 PLATED	1	1	1	1				
	24	26106-080162	BOLT M 8X 16 PLATED	3	3	3	3				
	25	26106-080162	BOLT M 8X 16 PLATED	1	1	1	1				
	26	26106-080162	BOLT M 8X 16 PLATED	1	1	1	1				

Fig.88. BATTERY, HORN & ELECTRIC PARTS

Fig. 88 BATTERY, HORN & ELECTRIC PARTS



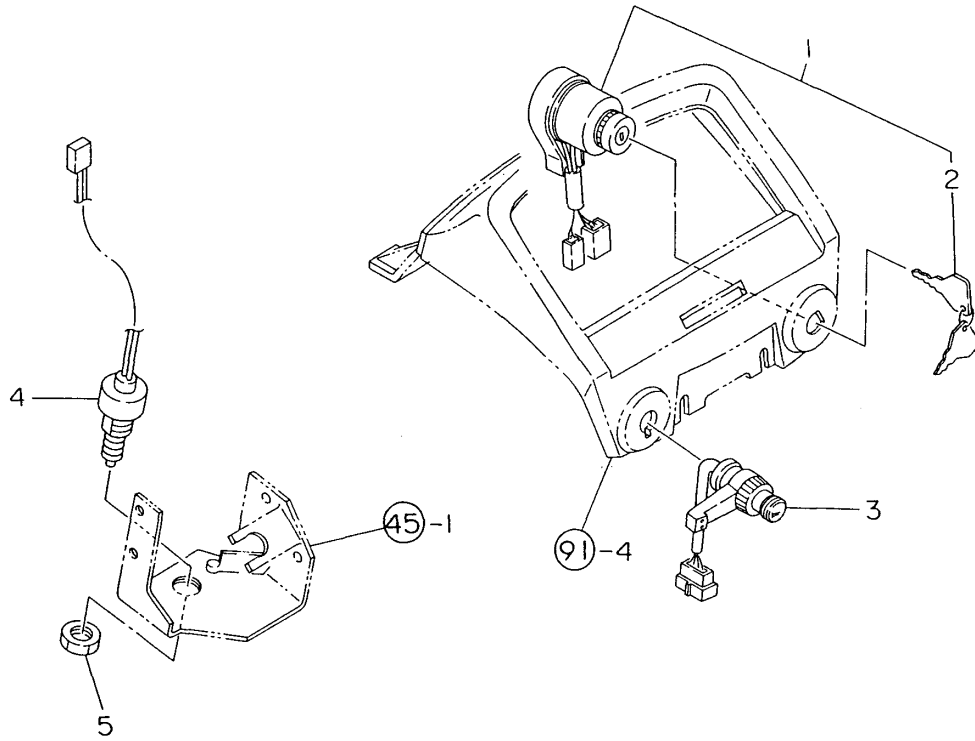
(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194240-51510	BATTERY N70Z	1	1	1	1				
2	1	194150-51550	COVER, BATTERY	1	1	1	1				
3	1	194151-57100	HORN	1	1	1	1				
4	1	26106-060122	BOLT M 6X 12 PLATED	1	1	1	1				
5	1	26106-060252	BOLT M 6X 25 PLATED	2	2	2	2				

Fig.89. SWITCH

Fig. 89 SWITCH



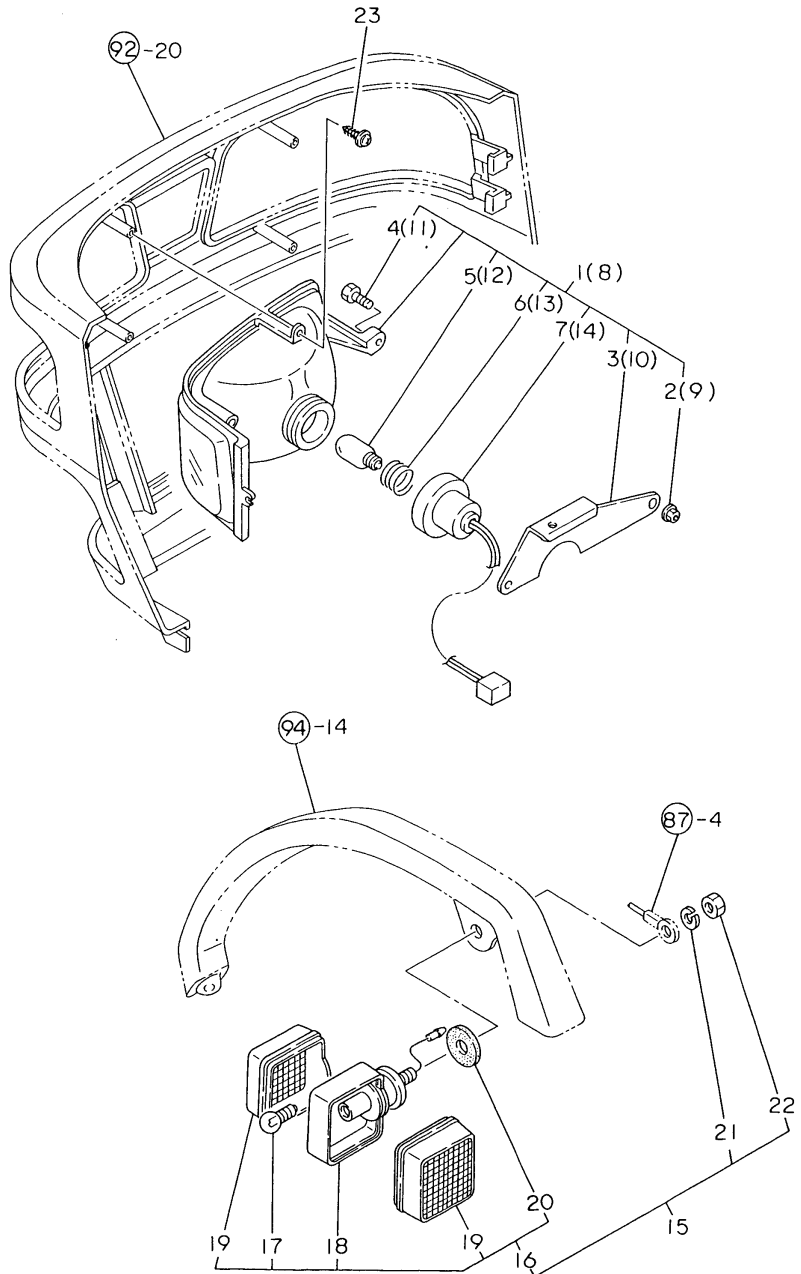
(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194940-52110	SWITCH,STARTER	1	1	1	1				
2	2	198360-52160	KEY COMPL.	1	1	1	1				
3	1	194555-52140	SWITCH,COMBINATION	1	1	1	1				
4	1	194197-52191	SWITCH, SAFETY START	1	1	1	1				
5	1	194240-52210	NUT M22	1	1	1	1				

Fig.90. LAMP

Fig. 90 LAMP



(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

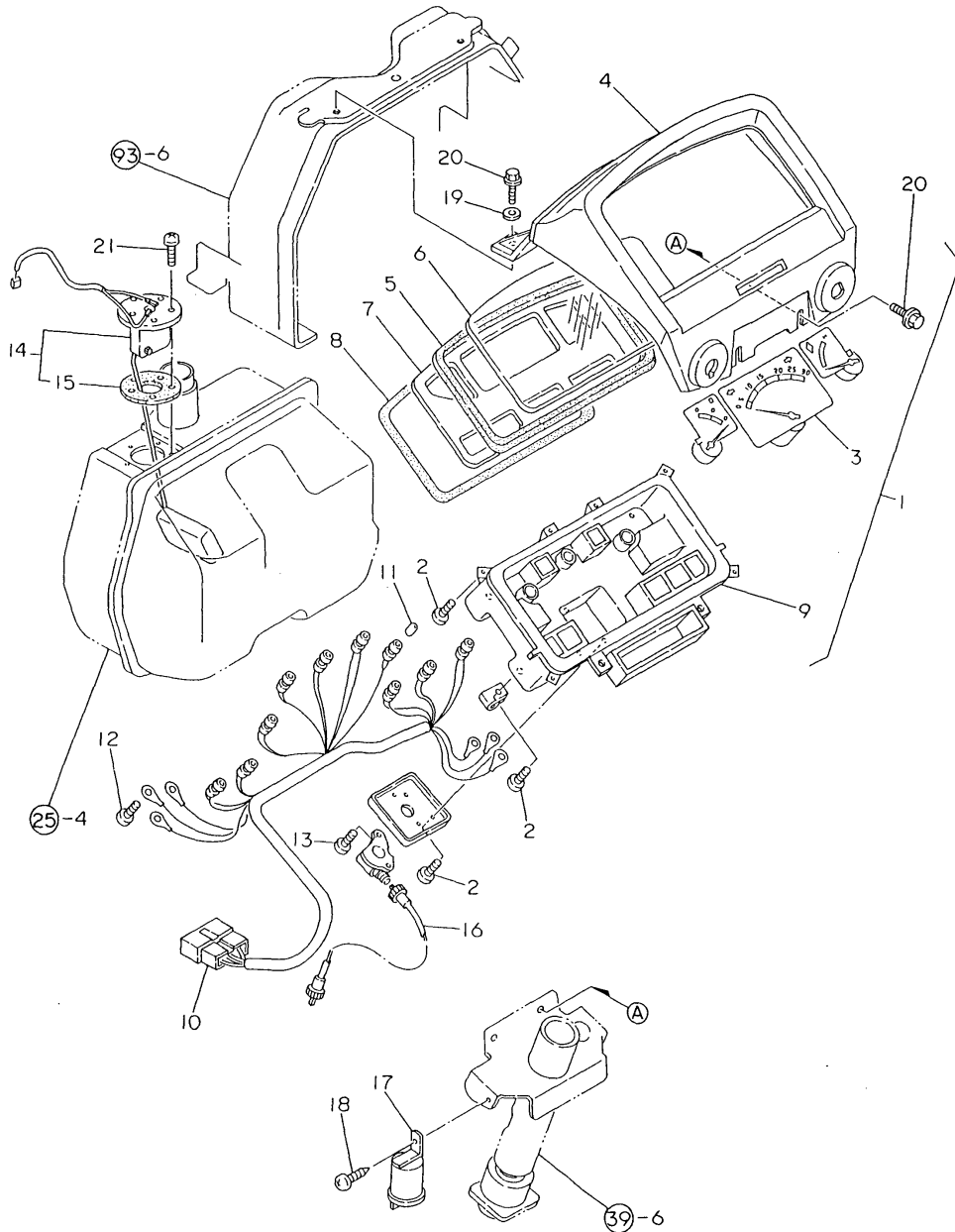
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198010-53100	HEADLIGHT L COMPL.	1	1	1	1				
2	2	194990-22130	NUT W/WASHER 6	2	2	2	2				
3	2	198010-53130	STAY L,HEADLIGHT	1	1	1	1				
4	2	198010-53170	BOLT	2	2	2	2				
5	2	198511-54140	BULB 12V15W/15W	1	1	1	1				
6	2	198511-54150	SPRING	1	1	1	1				
7	2	198511-54160	COVER COMP.,SOCKET	1	1	1	1				
8	1	198010-53200	HEADLIGHT R COMPL.	1	1	1	1				
9	2	194990-22130	NUT W/WASHER 6	2	2	2	2				
10	2	198010-53140	STAY R,HEADLIGHT	1	1	1	1				
11	2	198010-53170	BOLT	2	2	2	2				
12	2	198511-54140	BULB 12V15W/15W	1	1	1	1				
13	2	198511-54150	SPRING	1	1	1	1				
14	2	198511-54160	COVER COMP.,SOCKET	1	1	1	1				
15	1	198010-53400	LIGHT ASSY, WORKING	2	2	2	2				
16	2	198010-53420	LAMP, FLASHER	2	2	2	2				
17	3	194200-53400	BULB, 12V-20W	2	2	2	2				
18	3	198010-53410	BODY	2	2	2	2				
19	3	198511-53430	LENS	4	4	4	4				
20	3	198511-53450	GASKET	2	2	2	2				
21	2	22217-100000	SPRING WASHER 10	2	2	2	2				
22	2	26776-100002	LOCK NUT M10 PLATED	2	2	2	2				
23	1	194940-61790	SCREW 5X16	4	4	4	4				

Fig.91. METER

(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

Fig. 91 METER



REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198010-56010	METER CMP.,COMBINAT.	1	1	1	1				
2	2	198220-53170	SCREW	14	14	14	14				
3	2	198010-56110	METER COMPL.	1	1	1	1				
4	2	198010-56120	VISOR	1	1	1	1				
5	2	198220-56130	PACKING	1	1	1	1				
6	2	198220-56140	GLASS	1	1	1	1				
7	2	198220-56150	RETAINER	1	1	1	1				
8	2	198220-56160	PACKING	1	1	1	1				
9	2	198010-56200	CASE ASSY	1	1	1	1				
10	2	198010-56210	WIRE HARNESS	1	1	1	1				
11	2	198220-56220	LAMP	10	10	10	10				
12	2	198220-56230	SCREW	6	6	6	6				
13	2	26022-040102	SCREW M 4X 10	2	2	2	2				
14	1	198290-56600	GAUGE COMPL.,FUEL	1	1	1	1				
15	2	194420-56620	GASKET	1	1	1	1				
16	1	194275-56900	CABLE, HOUR-METER	1	1	1	1				
17	1	194555-57200	RELAY	1	1	1	1				
18	1	194065-60580	SCREW M 6X25	1	1	1	1				
19	1	22157-080000	WASHER 8	2	2	2	2				
20	1	26106-080202	BOLT M 8X 20 PLATED	4	4	4	4				
21	1	26557-050122	SCREW M 5X 12	5	5	5	5				

Fig.92. BONNET

Fig. 92 BONNET

(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198010-03110	EXTENSION	1	1	1	1				
2	1	194420-05210	BOLT M 6X 16	1	1	1	1				
3	1	194420-05210	BOLT M 6X 16	4	4	4	4				
4	1	194420-05210	BOLT M 6X 16	1	1	1	1				
5	1	198010-05290	PACKING	4	4	4	4				
6	1	198010-05580	STAY L,RADIATOR	1	1	1	1				
7	1	198010-05590	STAY R,RADIATOR	1	1	1	1				
8	1	129107-13550	GASKET, NOZZLE	1	1	1	1				
9	1	194990-22140	NUT W/WASHER 8	2	2	2	2				
10	1	194990-22140	NUT W/WASHER 8	1	1	1	1				
11	1	194990-22140	NUT W/WASHER 8	4	4	4	4				
12	1	198241-28330	GUIDE,FRONT SHIFT	1	1	1	1				
13	1	198360-51271	RUBBER, EDGING	1	1	1	1				
14	1	124766-59050	CLAMP 12	4	4	4	4				
15	1	198010-61050	LEVER, HOOD LOCK	1	1	1	1				
16	1	198010-61060	LEVER,BONNET LINK	1	1	1	1				
17	1	198010-61080	STAY CMP,BONNET LOCK	1	1	1	1				
18	1	198010-61100	UPPER HOOD COMP.	1	1	1	1				
19	1	198010-61200	FRAME COMP.,GRILLE	1	1	1	1				
20	1	198010-61300	GRILLE,FRONT	1	1	1	1				
21	1	198220-61340	SPRING	1	1	1	1				
22	1	198010-61350	NET,FRONT GRILLE	1	1	1	1				
23	1	198010-61420	SHEET,STRTR.INSULAT.	1	1	1	1				
24	1	198010-61430	URETHANE DS,UPPER R	1	1	1	1				
25	1	198010-61440	URETHANE DS,UPPER L	1	1	1	1				
26	1	194322-61460	PAD, (RUBBER)	2	2	2	2				
27	1	198010-61460	URETHANE BS40X15X250	2	2	2	2				
28	1	198010-61470	SEAL	1	1	1	1				
29	1	198010-61480	SEAL	1	1	1	1				
30	1	198010-61490	URETHANE,DASHB.COVER	1	1	1	1				
31	1	198010-61540	COVER, FUEL TANK	1	1	1	1				
32	1	194420-61640	SCREW M 5X 16	4	4	4	4				
33	1	194167-61650	NUT 5008	4	4	4	4				
34	1	198010-61710	PLATE, AIR CUT	1	1	1	1				
35	1	194190-61750	CLAMP, BATTERY	1	1	1	1				
36	1	198010-61750	STAND, HOOD	1	1	1	1				
37	1	194190-61761	RUBBER, CUSHION	4	4	4	4				
38	1	198011-61780	ROD, BATTERY CLAMP	2	2	2	2				
39	1	198010-61810	COVER, STARTER	1	1	1	1				
40	1	198010-61890	PACKING	1	1	1	1				
41	1	198010-61910	BRACKET,AIR CLEANER	1	1	1	1				
42	1	198010-61950	STRIP A,WEATHER	1	1	1	1				
43	1	198010-61960	STRIP B,WEATHER	2	2	2	2				
44	1	198230-61960	SPRING	1	1	1	1				
45	1	198010-61970	STRIP C,WEATHER	2	2	2	2				
46	1	198240-61970	STRIP	1	1	1	1				
47	1	198010-61980	PIN,HOOD LOCK	1	1	1	1				
48	1	22137-080000	WASHER 8, POLISHED	1	1	1	1				
49	1	22137-080000	WASHER 8, POLISHED	1	1	1	1				
50	1	22137-120000	WASHER 12,POLISHED	1	1	1	1				
51	1	22372-080000	SNAP PIN (JASO 8)	1	1	1	1				

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.

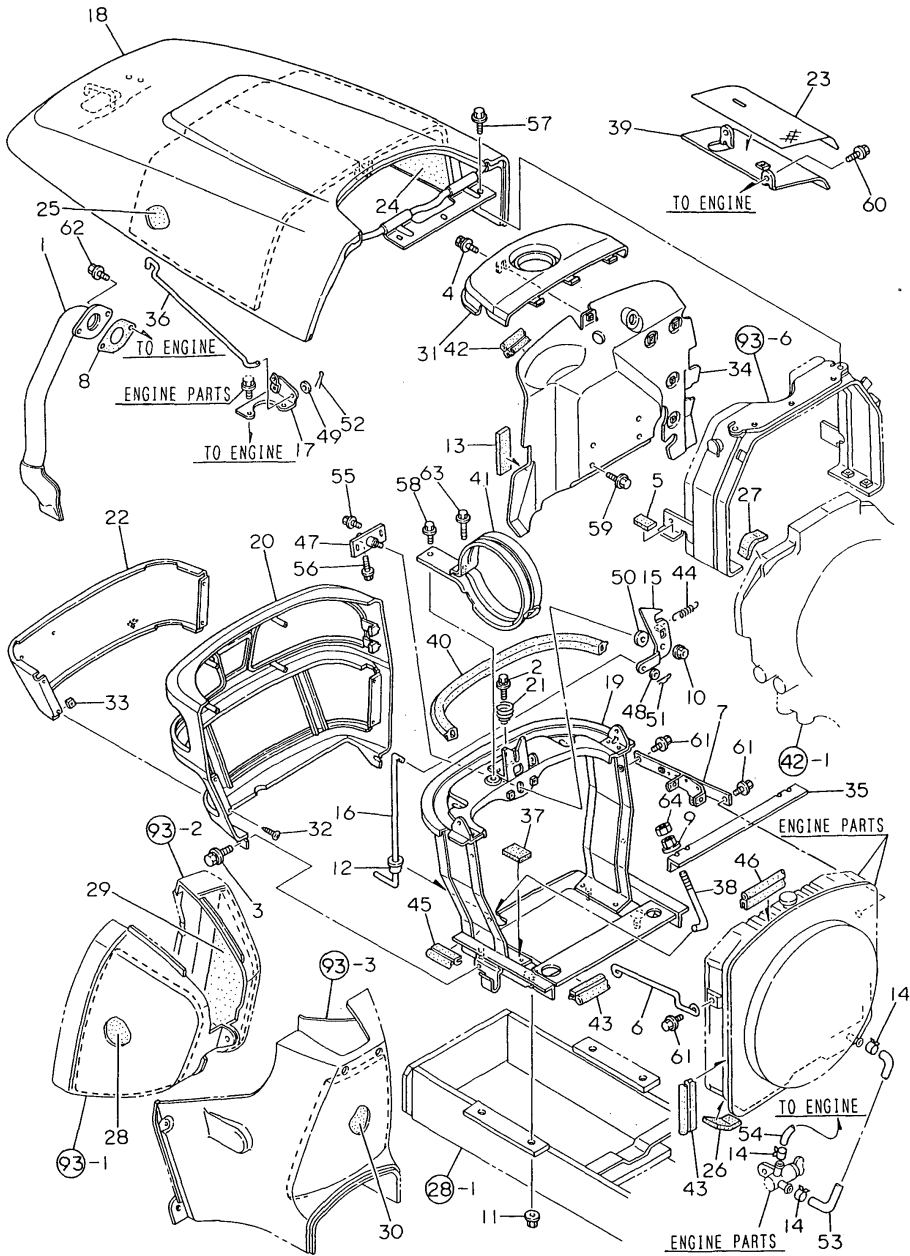


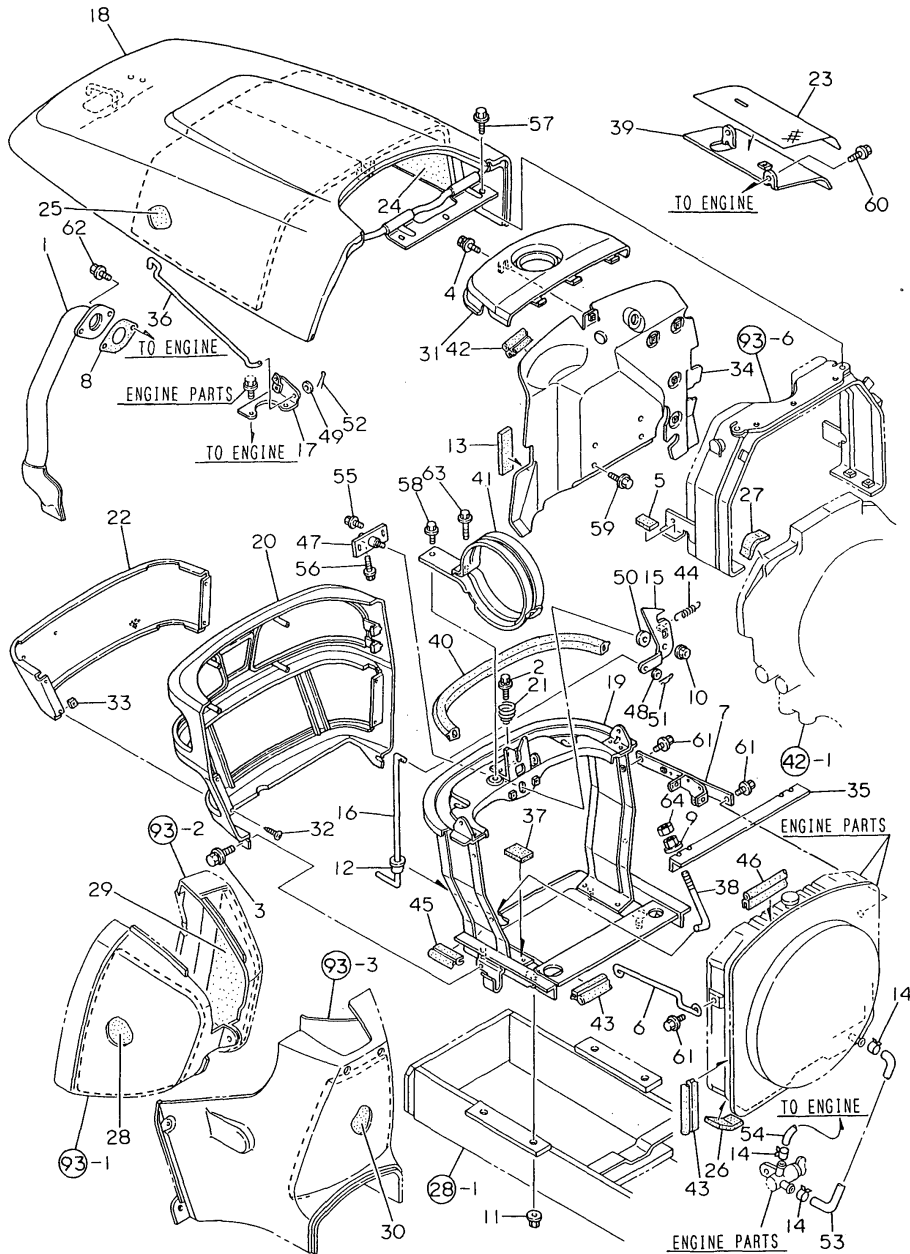


Fig.92. BONNET

(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

Fig. 92 BONNET



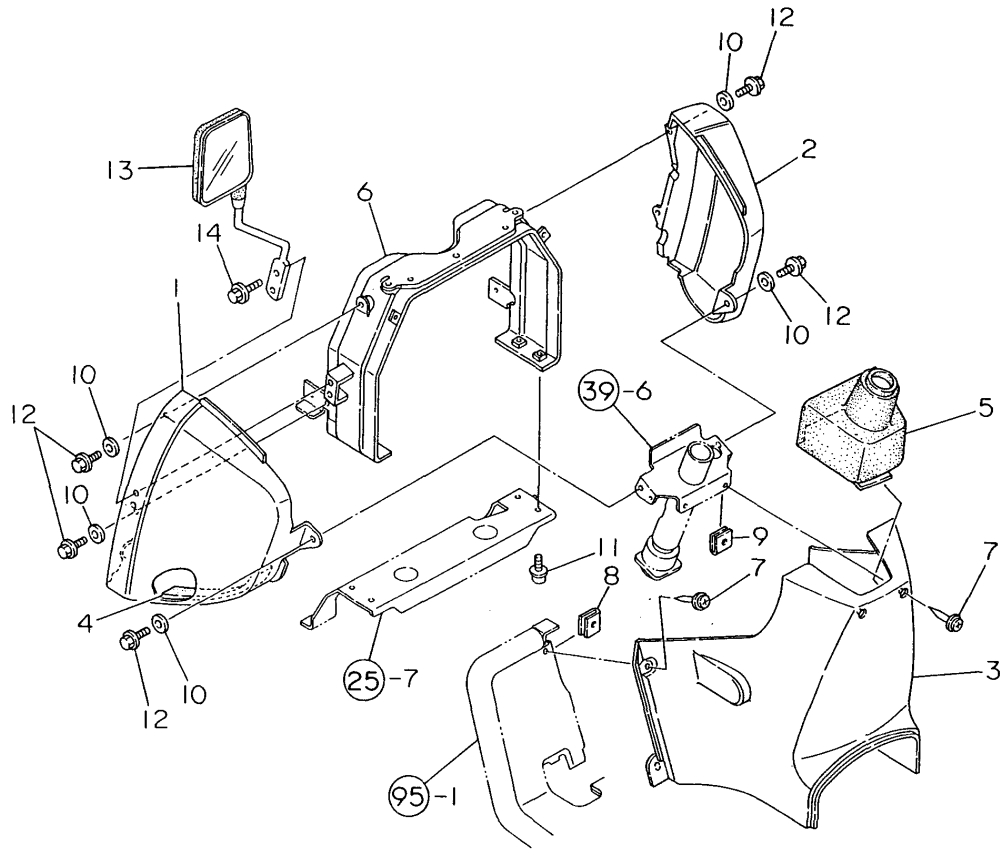
REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
52	1	22417-200300	COTTER PIN 2.0X30	1	1	1	1				
53	1	23780-070190	HOSE 7X190,FUEL	1	1	1	1				
54	1	23980-730650	FUEL PIPE 7.3X650	1	1	1	1				
55	1	26106-060162	BOLT M 6X 16 PLATED	2	2	2	2				
56	1	26106-060304	BOLT 6X30	1	1	1	1				
57	1	26106-080122	BOLT M 8X 12 PLATED	3	3	3	3				
58	1	26106-080162	BOLT M 8X 16 PLATED	1	1	1	1				
59	1	26106-080162	BOLT M 8X 16 PLATED	4	4	4	4				
60	1	26106-080162	BOLT M 8X 16 PLATED	1	1	1	1				
61	1	26106-080162	BOLT M 8X 16 PLATED	4	4	4	4				
62	1	26106-080252	BOLT M 8X 25 PLATED	2	2	2	2				
63	1	26106-080302	BOLT M 8X 30 PLATED	1	1	1	1				
64	1	26716-080002	NUT M 8	2	2	2	2				

Fig.93. DASHBOARD & REARVIEW MIRROR

(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

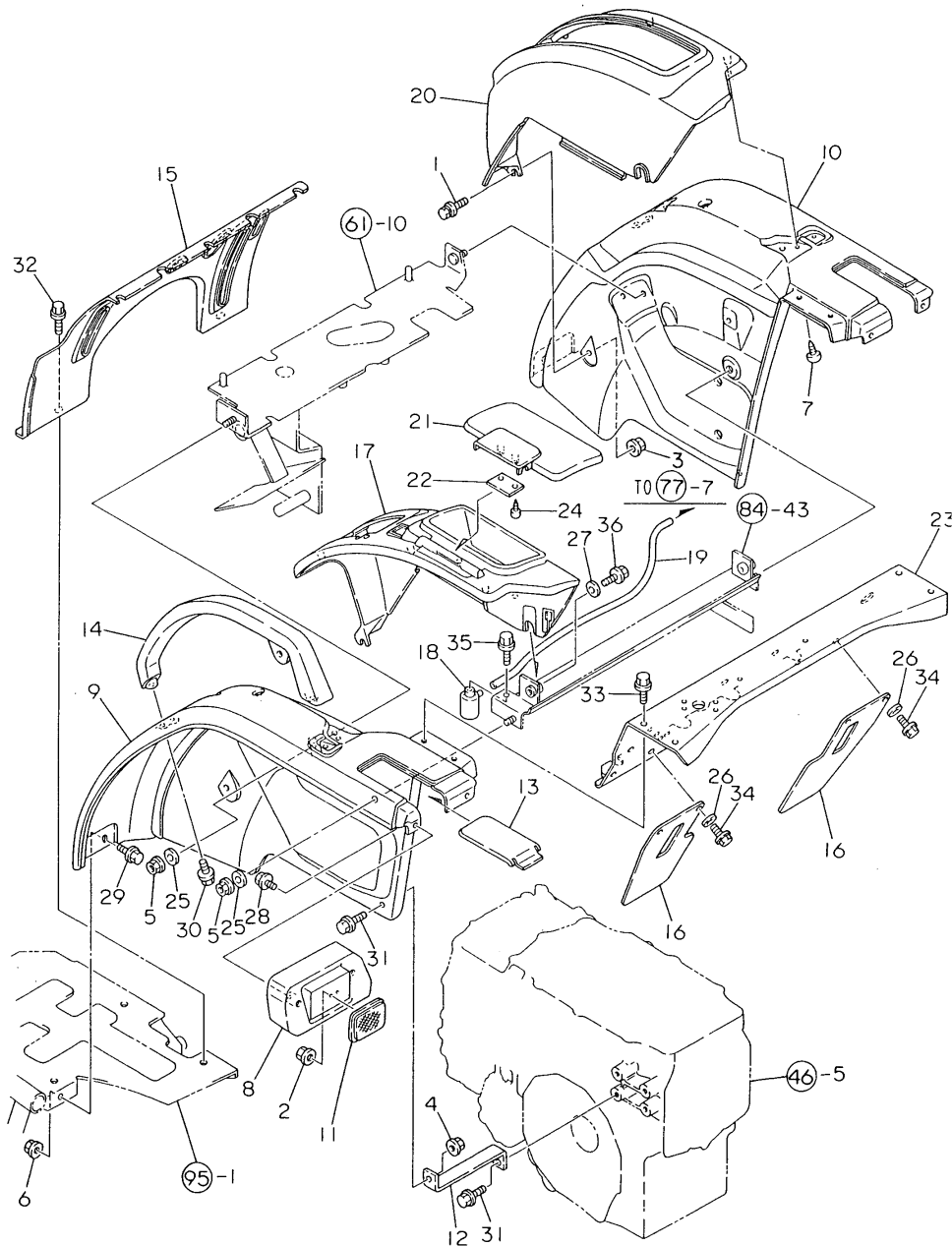
Fig. 93 DASHBOARD & REARVIEW MIRROR



REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198036-61500	DASHBOARD SIDE (L)	1	1	1	1				
2	1	198010-61510	SIDE R,DASHBOARD	1	1	1	1				
3	1	198010-61520	COVER, DUSH BORD	1	1	1	1				
4	1	198010-61550	URETHANE CS50X25X250	1	1	1	1				
5	1	198010-61580	COVER,STEERING	1	1	1	1				
6	1	198036-61600	STAY, DASHBOARD	1	1	1	1				
7	1	194555-61640	SCREW M 5X 25	6	6	6	6				
8	1	194167-61650	NUT 5008	4	4	4	4				
9	1	198220-63850	NUT 5	2	2	2	2				
10	1	22157-080000	WASHER 8	6	6	6	6				
11	1	26106-080162	BOLT M 8X 16 PLATED	4	4	4	4				
12	1	26106-080202	BOLT M 8X 20 PLATED	6	6	6	6				
13	1	198010-64200	REARVIEW MIRROR	1	1	1	1				
14	1	26106-060202	BOLT M 6X 20 PLATED	2	2	2	2				

Fig.94. FENDER

Fig. 94 FENDER



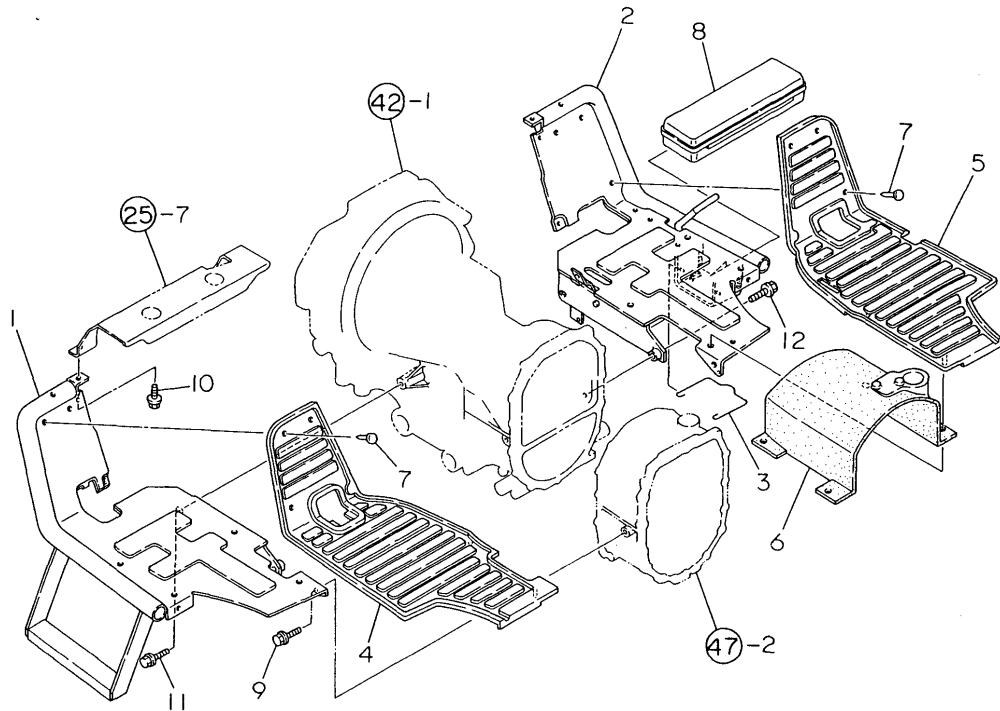
(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194420-05210	BOLT M 6X 16	2	2	2	2				
2	1	194990-22130	NUT W/WASHER 6	2	2	2	2				
3	1	194990-22130	NUT W/WASHER 6	2	2	2	2				
4	1	194990-22140	NUT W/WASHER 8	2	2	2	2				
5	1	194990-22140	NUT W/WASHER 8	4	4	4	4				
6	1	194990-22140	NUT W/WASHER 8	2	2	2	2				
7	1	194940-61790	SCREW 5X16	6	6	6	6				
8	1	194940-62050	HOUSING, TAIL	2	2	2	2				
9	1	198010-62100	FENDER (L)	1	1	1	1				
10	1	198010-62110	FENDER (R)	1	1	1	1				
11	1	194630-62230	REFLECTOR	2	2	2	2				
12	1	198010-62350	STAY, FENDER LOWER	2	2	2	2				
13	1	198010-62390	COVER, FENDER UPPER	2	2	2	2				
14	1	198010-62410	ASSIST BAR	2	2	2	2				
15	1	198010-62910	COVER, DUST	1	1	1	1				
16	1	198010-62930	COVER, REAR DUST	2	2	2	2				
17	1	198010-63500	LEVER GUIDE L	1	1	1	1				
18	1	194205-63550	BREATHER, AIR	1	1	1	1				
19	1	198010-63560	PIPE, AIR BREATHER	1	1	1	1				
20	1	198010-63600	GUIDE (R), LEVER	1	1	1	1				
21	1	198010-63630	LID, BOX	1	1	1	1				
22	1	198010-63640	SPRING, LID	1	1	1	1				
23	1	198010-63800	COVER, REAR	1	1	1	1				
24	1	194680-78200	SCREW 5X 14	2	2	2	2				
25	1	22157-080000	WASHER 8	4	4	4	4				
I 26	1	22157-080000	WASHER 8	4	4	4	4				
27	1	22157-100000	WASHER 10	2	2	2	2				
28	1	26106-060122	BOLT M 6X 12 PLATED	4	4	4	4				
29	1	26106-080162	BOLT M 8X 16 PLATED	2	2	2	2				
30	1	26106-080162	BOLT M 8X 16 PLATED	4	4	4	4				
31	1	26106-080162	BOLT M 8X 16 PLATED	4	4	4	4				
32	1	26106-080162	BOLT M 8X 16 PLATED	2	2	2	2				
I 33	1	26106-080162	BOLT M 8X 16 PLATED	4	4	4	4				
34	1	26106-080162	BOLT M 8X 16 PLATED	4	4	4	4				
35	1	26106-080202	BOLT M 8X 20 PLATED	1	1	1	1				
36	1	26106-100252	BOLT M10X 25 PLATED	2	2	2	2				

Fig.95. STEP

Fig. 95 STEP



(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

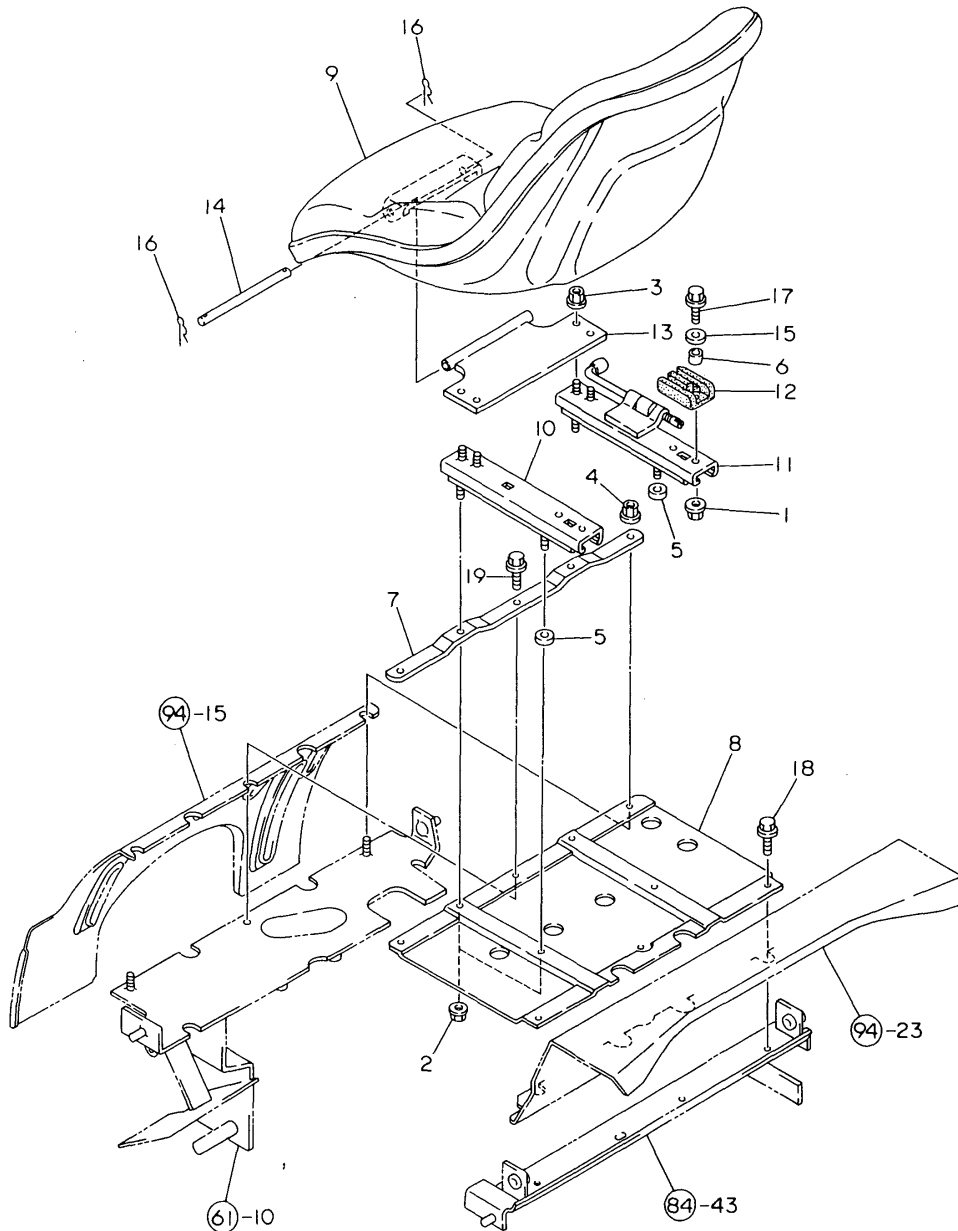
REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198010-62500	STEP (L) ASSY	1	1	1	1				
2	1	198010-62600	STEP (R) ASSY	1	1	1	1				
3	1	198010-62710	HOOK,TOOL BOX	1	1	1	1				
4	1	198010-62950	RUBBER, CUSHION	1	1	1	1				
5	1	198010-62960	RUBBER, CUSHION	1	1	1	1				
6	1	198010-62970	RUBBER	1	1	1	1				
7	1	1E6760-74150	CAP 8,HOLE	6	6	6	6				
8	1	194193-83000	BOX, TOOL	1	1	1	1				
9	1	26106-080162	BOLT M 8X 16 PLATED	2	2	2	2				
10	1	26106-080162	BOLT M 8X 16 PLATED	2	2	2	2				
11	1	26106-100202	BOLT M10X 20 PLATED	2	2	2	2				
12	1	26106-100352	BOLT M10X 35 PLATED	2	2	2	2				

Fig.96. SEAT

(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

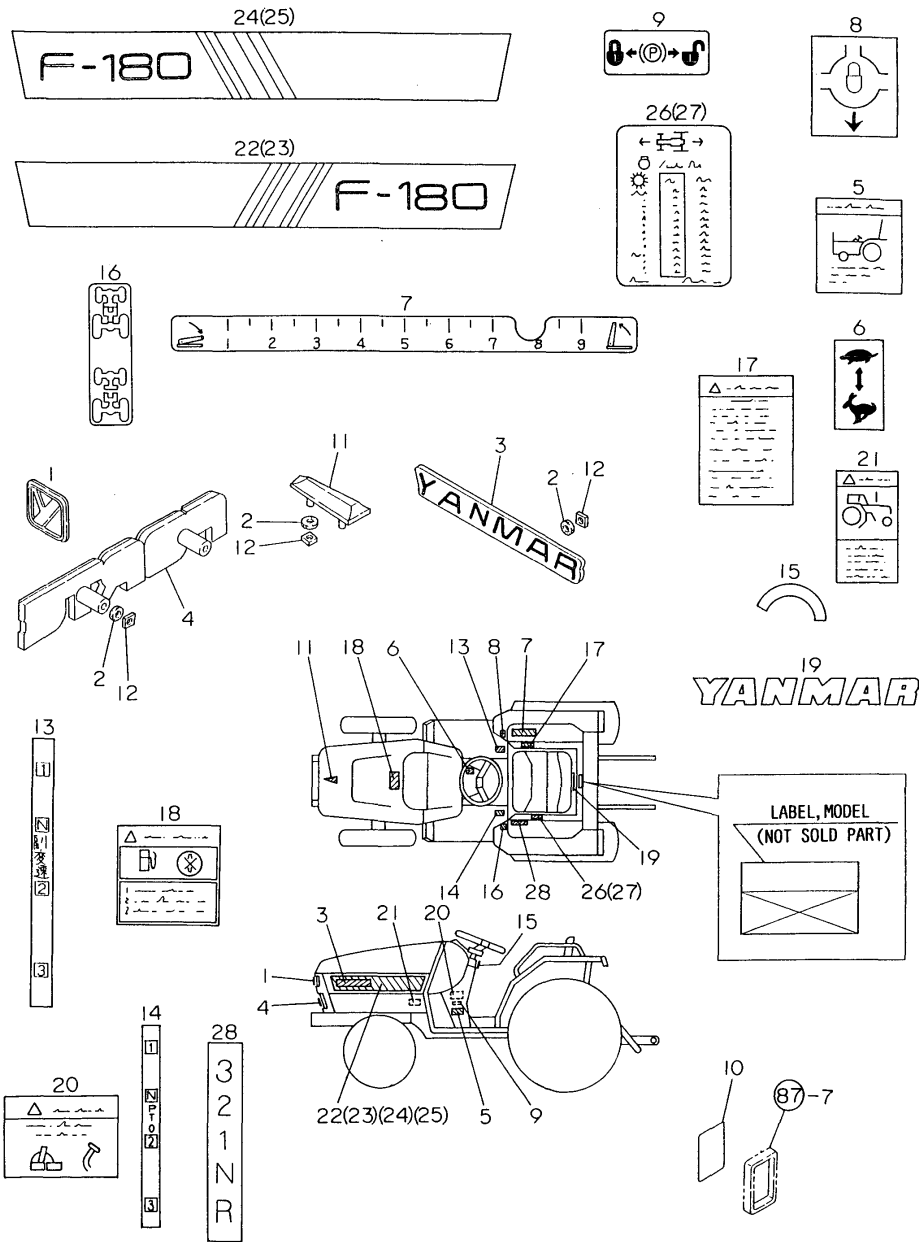
Fig. 96 SEAT



REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194990-22130	NUT W/WASHER 6	2	2	2	2				
2	1	194990-22140	NUT W/WASHER 8	4	4	4	4				
3	1	194990-22140	NUT W/WASHER 8	4	4	4	4				
4	1	194990-22140	NUT W/WASHER 8	2	2	2	2				
5	1	194145-22430	SPACER 18	2	2	2	2				
6	1	1C6215-48870	COLLAR 6.5X10.5X4.2	2	2	2	2				
7	1	198021-62820	COVER	1	1	1	1				
8	1	198010-62920	COVER,SEAT LOWER(DG)	1	1	1	1				
9	1	198360-63110	SEAT, OPERATOR	1	1	1	1				
10	1	198360-63150	RAIL L	1	1	1	1				
11	1	198360-63160	RAIL R	1	1	1	1				
12	1	198010-63210	RUBBER,SEAT CUSHION	2	2	2	2				
13	1	198021-63210	BRACKET, SEAT	1	1	1	1				
14	1	194151-63222	PIN, HINGE	1	1	1	1				
15	1	22157-060000	WASHER 6	2	2	2	2				
16	1	22372-080000	SNAP PIN (JASO 8)	2	2	2	2				
17	1	26106-060162	BOLT M 6X 16 PLATED	2	2	2	2				
18	1	26106-080162	BOLT M 8X 16 PLATED	3	3	3	3				
19	1	26106-080202	BOLT M 8X 20 PLATED	1	1	1	1				

Fig.97. LABEL

Fig. 97 LABEL



(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

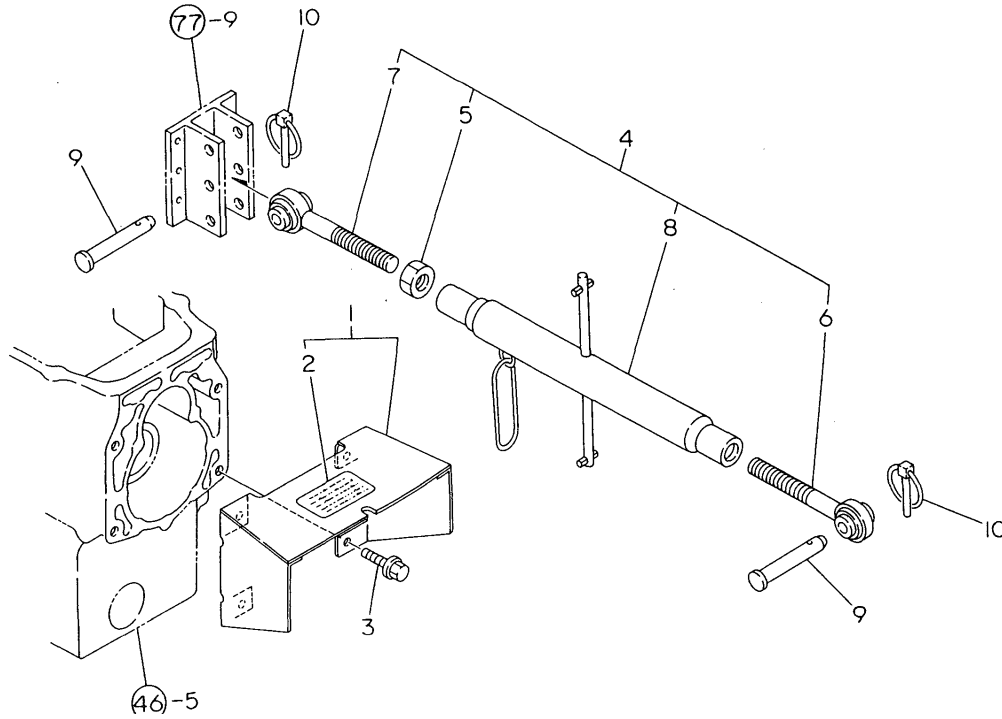
REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198421-65030	MARK 50, YANMAR	1	1	1	1				
2	1	194555-65130	CUSHION	8	8	8	8				
3	1	198511-65140	MARK YANMAR	2	2	2	2				
4	1	198511-65201	EMBLEM, FRONT	1	1	1	1				
5	1	198440-65220	LABEL, CLUTCH HANDLG	1	1	1	1				
6	1	194458-65340	LABEL, CREEP	1	1	1	1				
7	1	198036-65420	LABEL, HYDROOLIFT	1	1	1	1				
8	1	194240-65441	LABEL, DIFF. LOCK	1	1	1	1				
9	1	198036-65470	LABEL, BRAKE LOCK	1	1	1	1				
10	1	198036-65520	LABEL, HUSE BOX	1	1	1	1				
11	1	194940-65590	MARK, TOP	1	1	1	1				
12	1	194200-65610	NUT 5	8	8	8	8				
13	1	198010-65660	LABEL, SUB-CHANGE	1	1	1	1				
14	1	198010-65670	LABEL, P.T.O	1	1	1	1				
15	1	198010-65720	LABEL	1	1	1	1				
16	1	198221-65740	LABEL, MFWD	1	1	1	1				
17	1	198440-65750	LABEL	1	1	1	1				
18	1	198226-65790	LABEL, FUEL CAUTION	1	1	1	1				
19	1	194170-65891	LABEL, SEAT	1	1	1	1				
20	1	194256-65920	LABEL, PEDAL CAUTION	1	1	1	1				
21	1	119629-77091	LABEL, STARTER	1	1	1	1				
22	1	198011-65110	LABEL, SIDE(L)	1	1						
23	1	198031-65110	LABEL, SIDE(L)				1	1			
24	1	198011-65120	LABEL, SIDE(R)	1	1						
25	1	198031-65120	LABEL, SIDE(R)					1	1		
26	1	198016-65560	LABEL, SPEED	1	1						
27	1	198036-65560	LABEL, SPEED					1	1		
28	1	198010-65350	LABEL, MAIN CHANGE					1	1		

Fig.98. P.T.O. GUARD & TOP LINK

(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

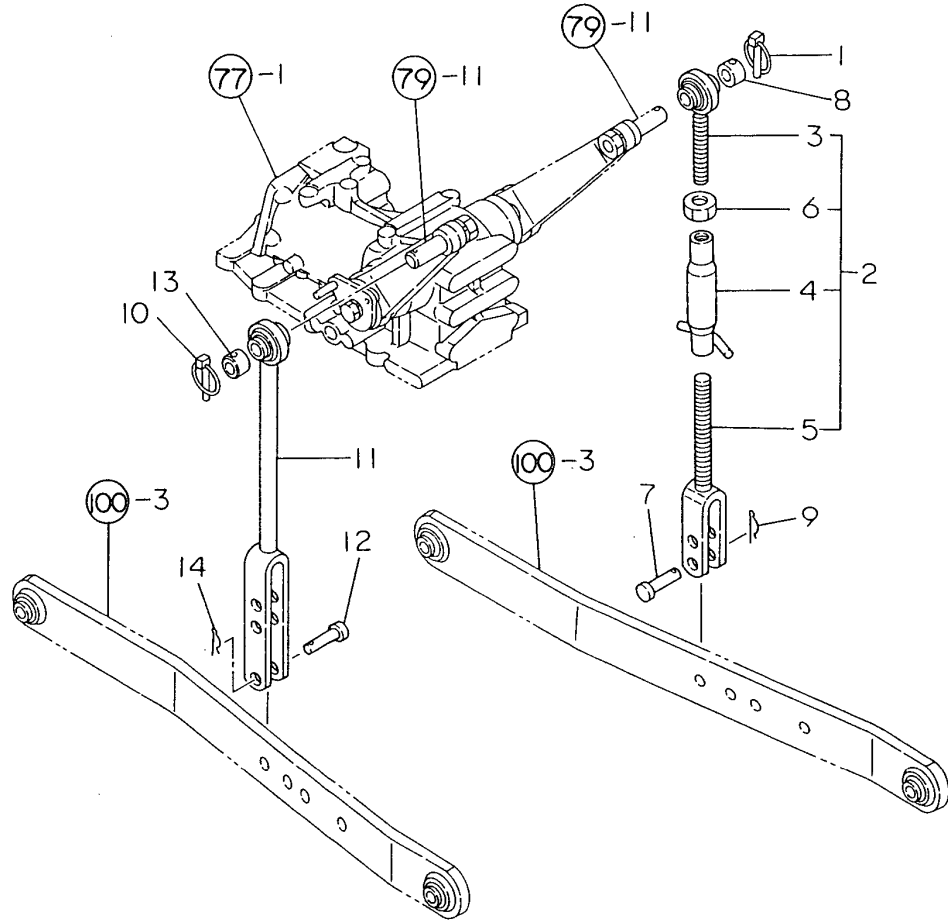
Fig. 98 P, T, O GUARD & TOP LINK



REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198416-70100	GUARD W/LABEL, PTO	1	1	1	1				
2	2	198440-65620	LABEL,P.T.O.WARNING	1	1	1	1				
3	1	26106-120202	BOLT M12X 20 PLATED	4	4	4	4				
4	1	794525-71100	TOP LINK KIT	1	1	1	1				
5	2	194150-71140	NUT 24	1	1	1	1				
6	2	194515-71260	EYE BOLT (L)	1	1	1	1				
7	2	194515-71360	EYE BOLT W/BALL (R)	1	1	1	1				
8	2	194525-71500	TURNBUCKLE COMPL.	1	1	1	1				
9	1	194150-71230	PIN, TOP LINK	2	2	2	2				
10	1	794130-71410	PIN ASSY,BALL SOCKET	2	2	2	2				

Fig.99. LIFT LINK

Fig. 99 LIFT LINK



(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

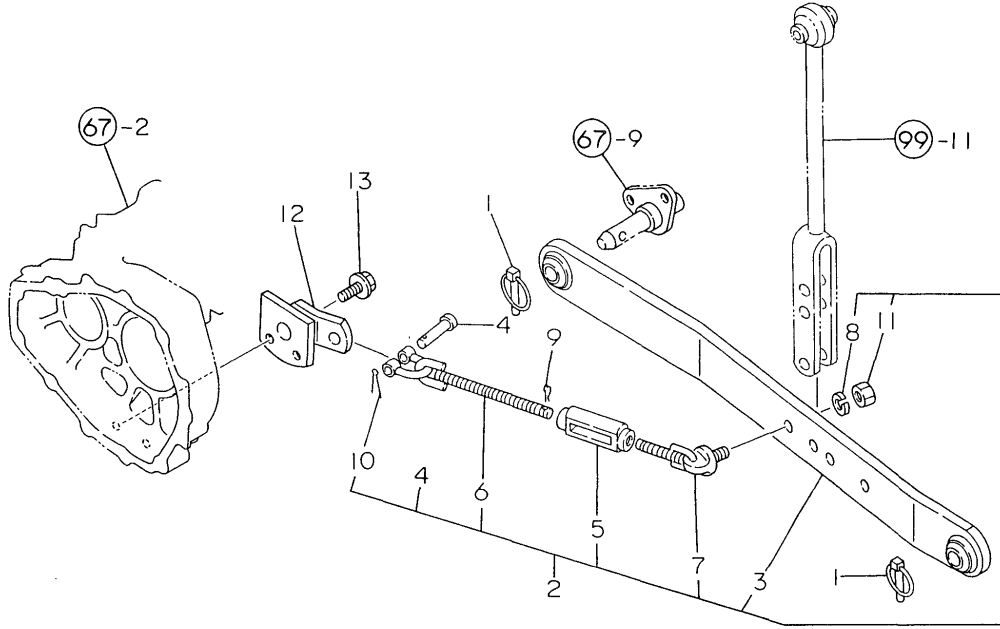
(D)=F220DXP-P  
(E)=  
(F)=

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	1				
2	1	794515-72100	LIFT LINK R KIT	1	1	1	1				
3	2	194555-72220	EYE BOLT	1	1	1	1				
4	2	194515-72230	TURNBUCKLE	1	1	1	1				
5	2	194515-72450	YOKE, LIFT LINK	1	1	1	1				
6	2	194515-72490	NUT M18	1	1	1	1				
7	1	194150-72460	PIN	1	1	1	1				
8	1	198415-74970	COLLAR,BALL & SOCKET	1	1	1	1				
9	1	22372-160000	SNAP PIN 16	1	1	1	1				
10	1	794130-71410	PIN ASSY,BALL SOCKET	1	1	1	1				
11	1	194515-72310	LINK ASSY (L), LIFT	1	1	1	1				
12	1	194150-72460	PIN	1	1	1	1				
13	1	198415-74970	COLLAR,BALL & SOCKET	1	1	1	1				
14	1	22372-160000	SNAP PIN 16	1	1	1	1				



Fig.100. LOWER LINK & CHECK CHAIN

Fig.100 LOWER LINK & CHECK CHAIN



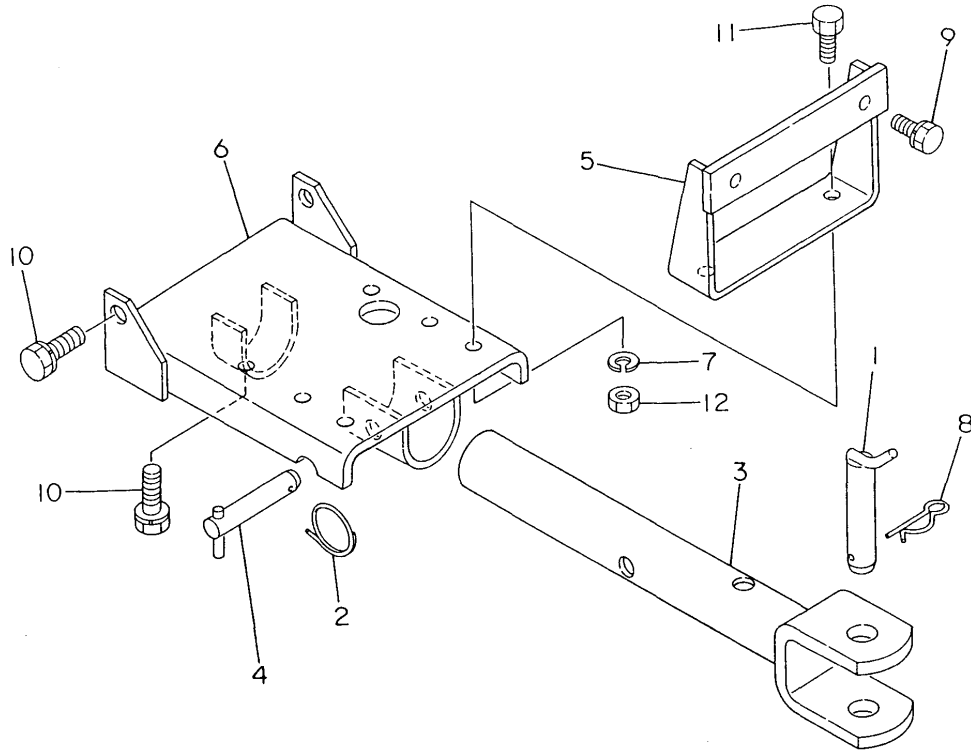
(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(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	4				
2	1	798330-73101	LINK & CHK.CHAIN,LWR	2	2	2	2				
3	2	194515-73411	LINK, LOWER	2	2	2	2				
4	2	194080-74631	PIN (SA10), SHACKLE	2	2	2	2				
5	2	198360-74670	TURNBUCKLE, CHAIN	2	2	2	2				
6	2	194312-74720	EYE BOLT	2	2	2	2				
7	2	194420-74820	EYE BOLT (R)	2	2	2	2				
8	2	22217-140000	SPRING WASHER 14	2	2	2	2				
9	2	22360-200000	SNAP PIN 20	2	2	2	2				
10	2	22417-320360	COTTER PIN 3.2X36	2	2	2	2				
11	2	26716-140002	NUT M14	2	2	2	2				
12	1	198330-74900	HINGE,CHECK CHAIN	2	2	2	2				
13	1	26106-100252	BOLT M10X 25 PLATED	4	4	4	4				

Fig.101. DRAWBAR HITCH

Fig. 101 DRAWBAR HITCH



(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

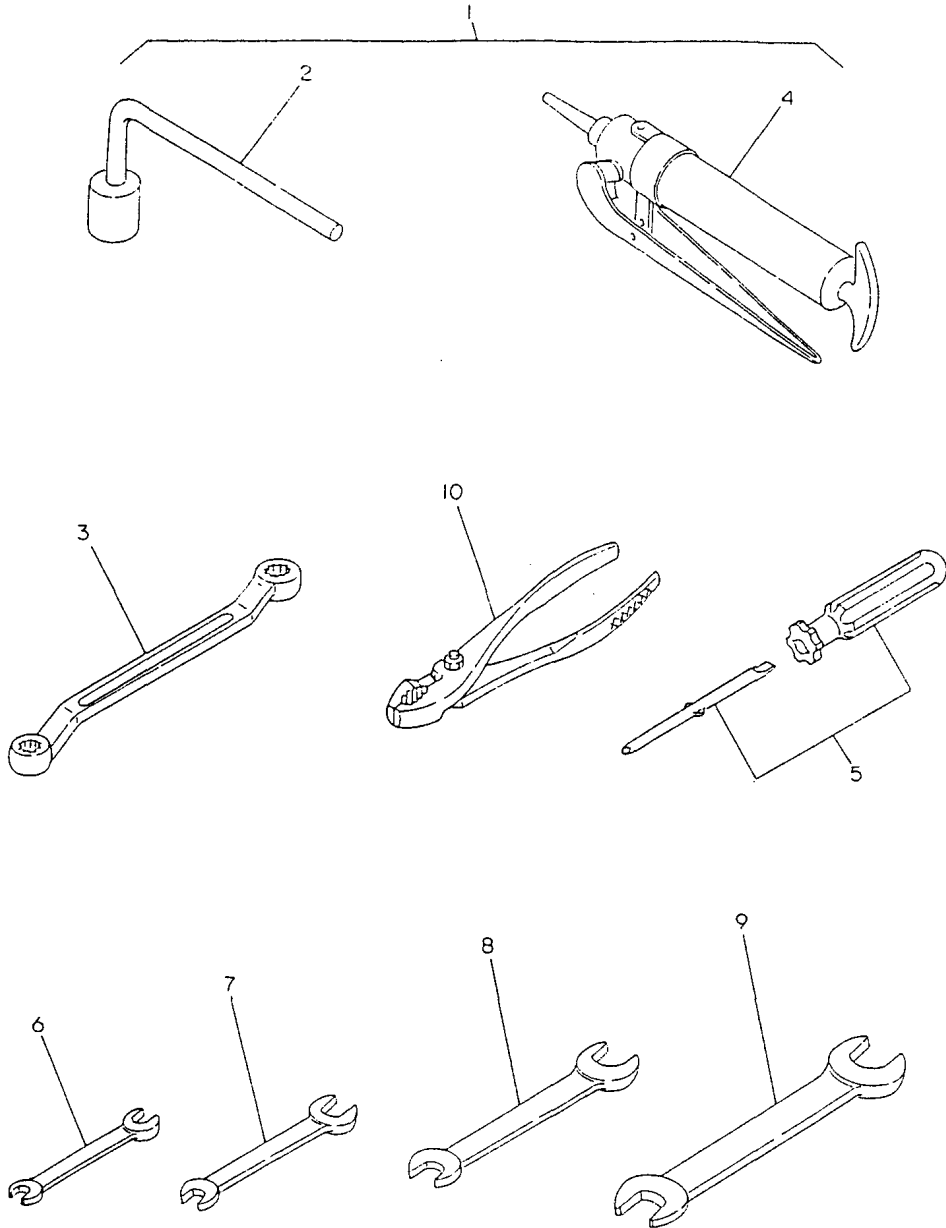
(D)=F220DXP-P  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194145-75240	PIN 22X 70, HITCH	1	1	1	1				
2	1	194145-75250	RING	1	1	1	1				
3	1	194555-75710	HITCH, DRAWBER	1	1	1	1				
4	1	194150-75740	PIN 16X 70, HITCH	1	1	1	1				
5	1	194515-75750	PLATE	1	1	1	1				
6	1	194515-75810	BRACKET,DRAW-BAR(49)	1	1	1	1				
7	1	22217-120000	SPRING WASHER 12	2	2	2	2				
8	1	22360-190000	SNAP PIN 19	1	1	1	1				
9	1	26013-120252	BOLT M12X 25	2	2	2	2				
10	1	26013-140352	BOLT W/WASHER M14X35	6	6	6	6				
11	1	26116-120302	BOLT M12X 30 PLATED	2	2	2	2				
12	1	26716-120002	NUT 12	2	2	2	2				



Fig.103. TOOL

Fig. 103 TOOL



(A)=F180D-P  
(B)=F180DXP-P  
(C)=F220D-P

(D)=F220DXP-P  
(E)=  
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	794440-82100	TOOL KIT	1	1	1	1				
2	2	194740-81010	BOX WRENCH 26	1	1	1	1				
3	2	194080-82110	WRENCH 17X19	1	1	1	1				
4	2	194130-82190	GUN, GREASE	1	1	1	1				
5	2	104200-92350	DRIVER, SCREW	1	1	1	1				
6	2	28110-080100	WRENCH 8X10	1	1	1	1				
7	2	28110-120140	WRENCH 12X14	1	1	1	1				
8	2	28110-170190	WRENCH 17X19	1	1	1	1				
9	2	28110-220240	WRENCH 22X24	1	1	1	1				
10	2	28170-001500	PLIERS 150	1	1	1	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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119620-02020	1	9
119620-66820	20	1
119625-11870	6	40
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119808-01720	4	12
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119808-12020	7	8
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119808-13100	8	1
119808-13500	8	8
119808-21580	10	14
119808-44501	14	10
119808-44560	14	15
119808-44570	14	12
119808-44600	13	25
119808-49010	14	18
119808-55620	19	7
119808-59570	18	40
119808-66870	20	3
119808-66880	20	4
119808-77330	22	15
119810-01200	1	27
119810-01780	4	7
119810-02870	1	36
119810-02940	1	39
119810-11100	6	15
119810-11110	6	16
119810-11120	6	17
119810-11240	6	26
119810-11300	5	17
119810-12100	7	1
119810-12111	7	2
	23	14
119810-13110	8	2
	23	15
119810-14011	9	1
119810-14400	9	5
119810-23200	10	38
119810-23600	10	39
119810-23610	10	41
119810-23910	10	43
119810-32000	12	1
119810-32010	12	2
119810-32080	12	4
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119810-39200	12	33
119810-42001	13	1
119810-51040	15	4
119810-55340	19	8
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119811-22080	10	19
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119812-01330	1	29
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119860-59020	19	3
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119865-11310	5	19
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119865-35320	12	23
119865-35330	12	24
119865-35350	12	28
119867-21600	10	18
119867-21601	10	18 -1
119867-21650	10	10
119867-34801	12	13
119867-35090	12	16
119867-49020	14	19
119867-77530	7	6
121111-21501	10	13
121250-44590	14	14
121250-55620	19	17
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121254-55510	19	13
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121450-44531	14	3
121450-77010	21	1
121454-44590	14	16
121468-44510	14	1
121468-44540	14	4
121470-44540	14	8
121470-44581	14	6
121492-42290	13	15
121550-49111	13	31
121750-59890	87	21
121850-11860	6	10
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	23	9
124160-11360	5	27
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		11
		12
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124250-49351	13	19
124450-44560	14	5
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129054-01640	4	13
129100-01500	2	1
	3	1
129100-01580	4	1
		4
	10	2
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129150-77202	22	1
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129155-51050	15	6
129155-51060	15	7
129155-51140	15	12
129155-51180	15	14
129155-51200	15	16
129155-51270	15	23
129155-51280	15	24
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	17	2
129155-51320	15	28
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129155-51370	15	32
129155-51380	15	33
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	17	50
129155-61810	16	59
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	17	60
129155-61950	16	62
	17	62
129156-51910	15	77
129350-49530	13	26
129400-92420	23	36
129428-61450	16	26
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129505-77880	21	29
129550-42350	13	16
129550-44660	14	17
129792-22400	10	33
129795-01800	2	8
	3	8
129795-01950	2	13
	3	13
129795-02411	1	23
129795-21661	10	11
129795-49551	13	27
	23	21
135210-61090	16	82
	17	82
158870-17520	86	21
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