

YANMAR 굴삭기

ViO12-2A

PARTS CATALOG



0CK50-M01480EN

Precautions

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2. Depending on the specifications of your product, the actual product and parts catalog may not match.
3. Please use genuine parts when repairing the product.
4. When ordering spare parts, please confirm the specifications (model name, serial number, part number, quantity, etc.) and confirm with your distributors or dealers.
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P R E F A C E

1. This Parts Catalog carries YANMAR excavator (crawler back-hoe) VI012-2A for Korea.

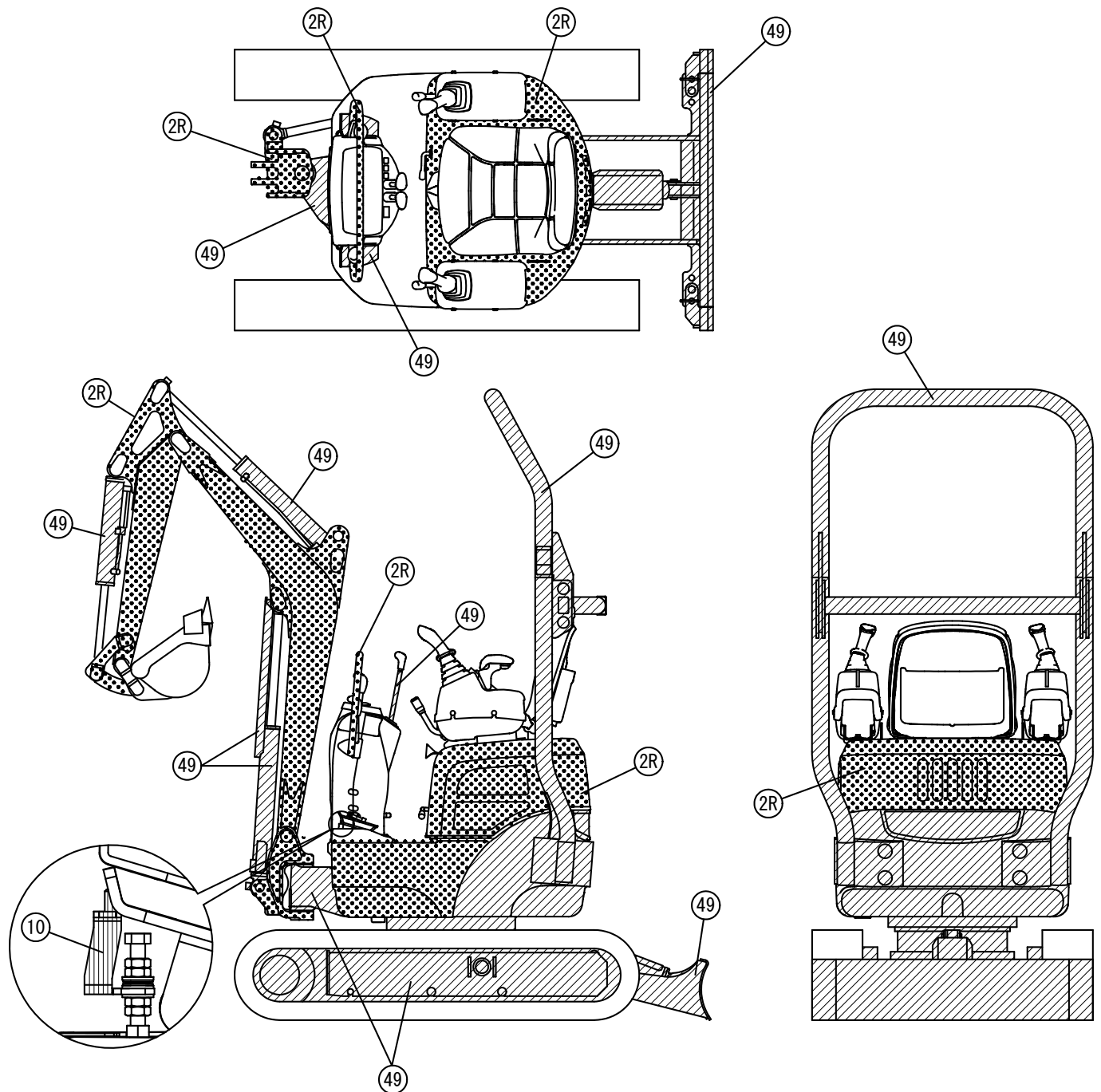
2. Parts catalog history

		Model	Published	Remarks
1st edition	Vehicle	VI012-2A (KR)	Jan. , 2018	
	Engine	3TNV70-WBVB		

3. Your understanding is asking that this parts catalog is not a technical data manual setting forth as servicing procedures, This parts catalog is using simplified illustration.

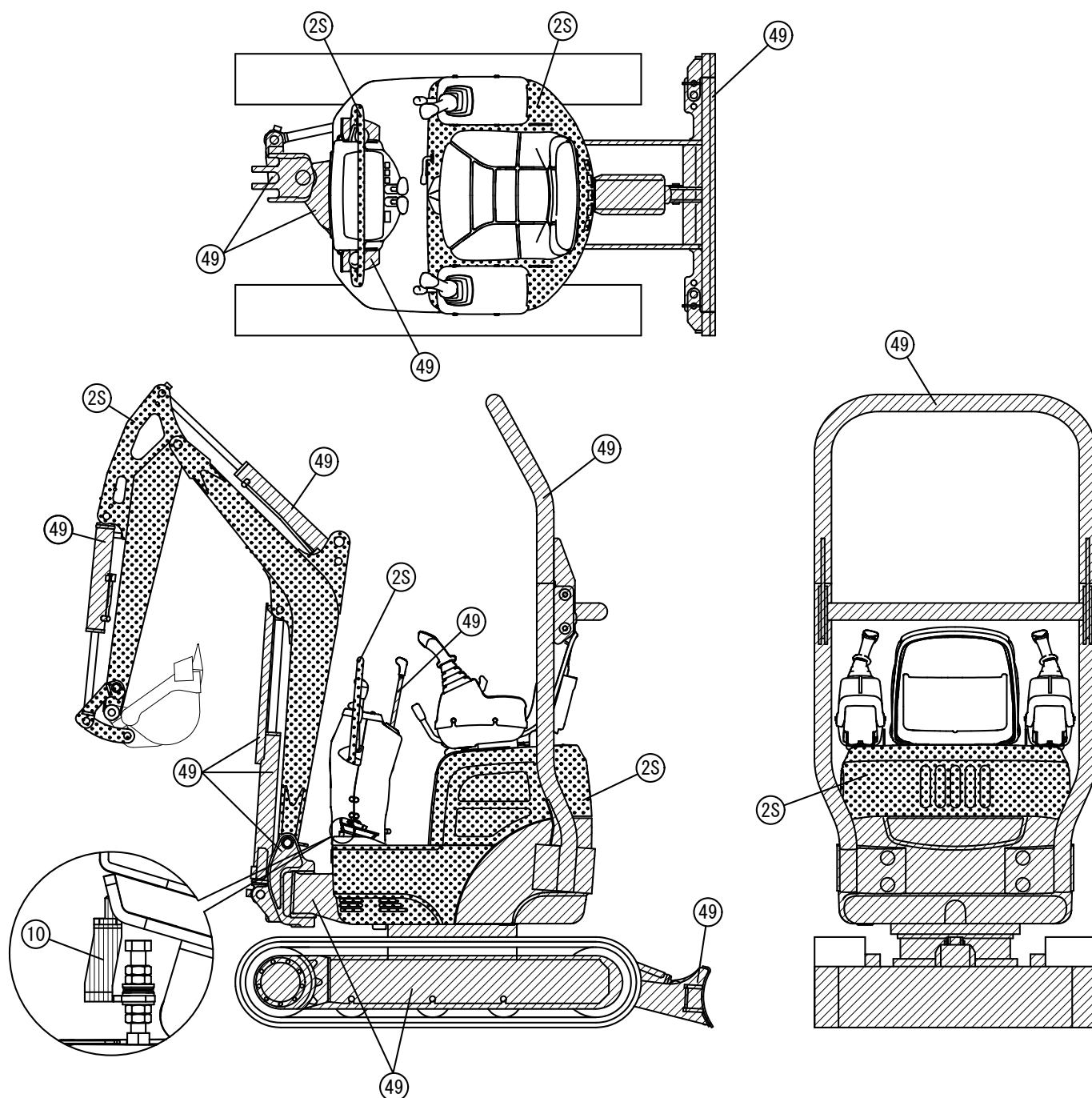
Be sure to use Yanmar Genuine Parts in your maintenance servicing of Yanmar products. Be careful not to use the simple parts available in the market, otherwise their use in repairing causes such as an early breakage, for instance.

VEHICLE PAINTED COLOR



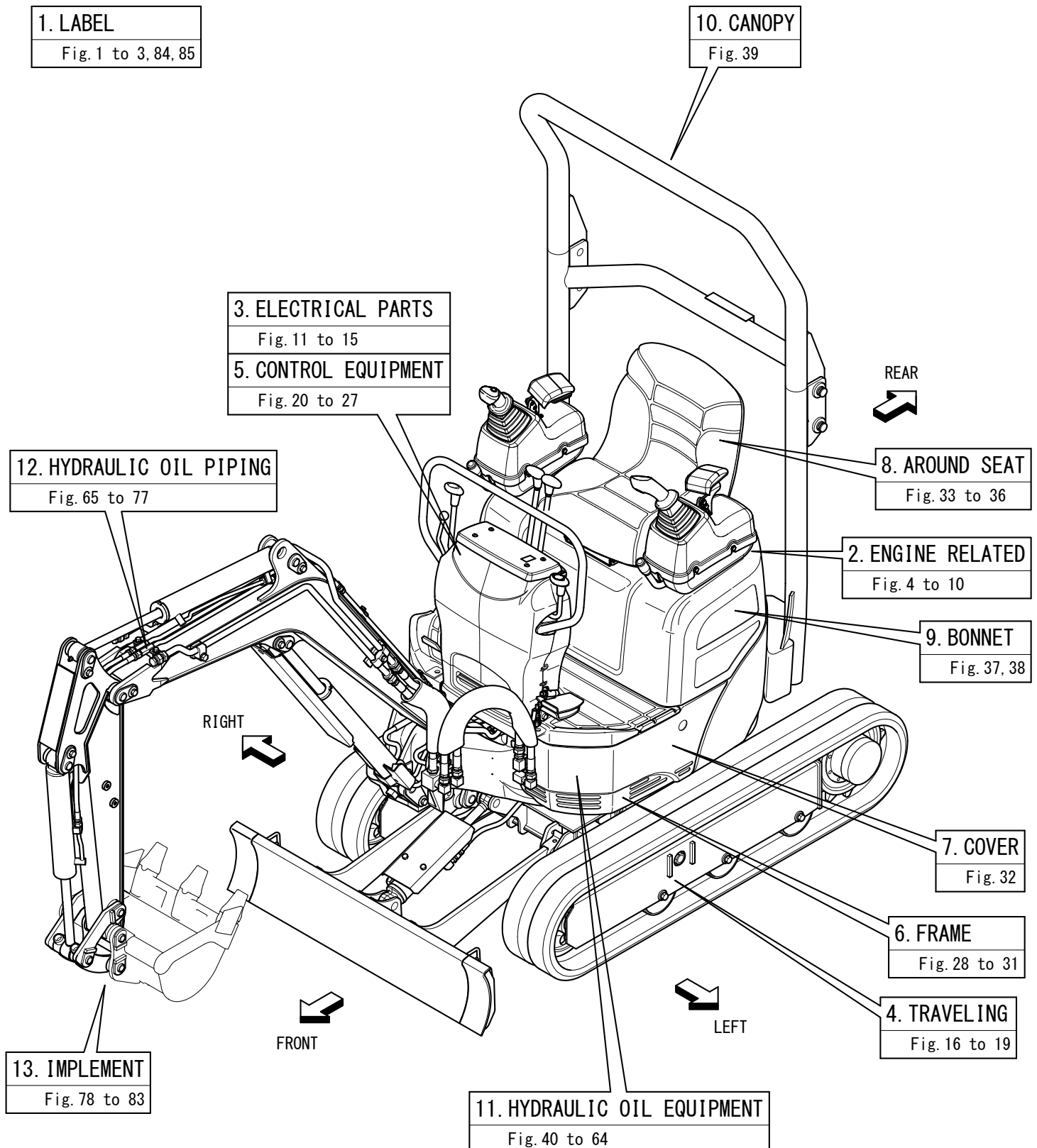
Color Code	Description	Painted Color	Paint Part No.		
			16L Can	4L Can	SPRAY
2R		YANMAR Turmeric Yellow	-----	977620-41001	977620-41002
49		YANMAR Navy Gray	-----	TOR-91390001	TOR-94800491
10		YANMAR Red 2	-----	TOR-91000003	TOR-94800101

VEHICLE PAINTED COLOR (PREMIUM RED SPEC.)



Color Code	Description	Painted Color	Paint Part No.		
			16L Can	4L Can	SPRAY
2S		YANMAR Premium Red	-----	TOR-912S0000	TOR-948002S0
49		YANMAR Navy Gray	-----	TOR-91390001	TOR-94800491
10		YANMAR Red 2	-----	TOR-91000003	TOR-94800101

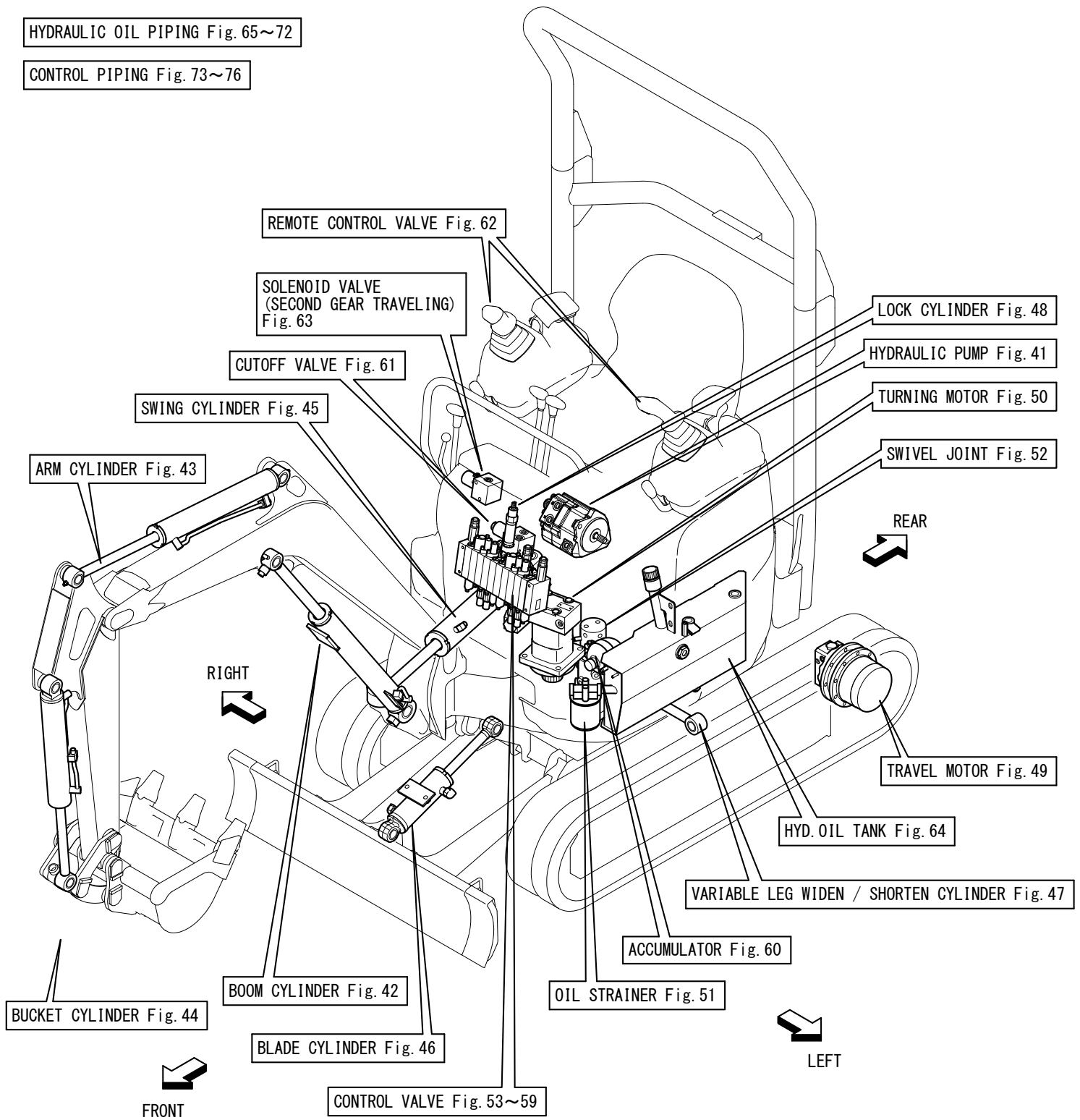
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PICTURESQUE INDEX (2) ■ ■ ■ HYDRAULIC SECTION

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OCK50-M01480

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Fig. No.	Fig. Name
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IMPLEMENT

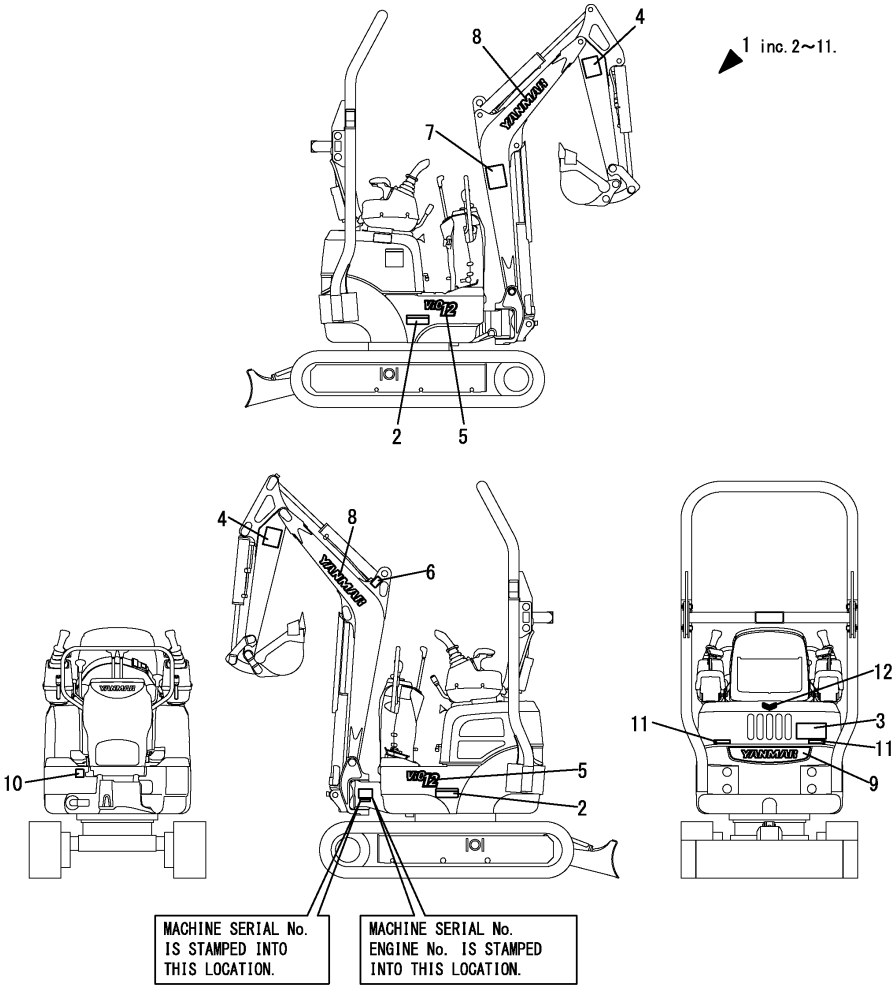
78.	BOOM BRACKET
79.	BOOM
80.	ARM
81.	BUCKET ARM & LINK
82.	BUCKET PIN
83.	BLADE

Fig.1. LABEL(EXTERIOR)

(A)=VIO12-2A P(KR)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172B58-08110	LABEL SET,OUT EX	1							
2	2	172437-03352	LABEL, GREASE CYL US	2							
3	2	172A64-03380	LABEL, SWING AREA US	1							
4	2	172437-03461	LABEL, BOOM	2							
5	2	172B58-03470	LABEL, MODEL VIO12	2							
6	2	172437-03511	LABEL, LIFTING	1							
6-1	2	172437-03512	LABEL,LIFTING	1							N
(A=M22344)											
7	2	172446-03711	LABEL, LIFT US	1							
8	2	172A86-03770	LABEL, YANMAR 355 B	2							
9	2	172A54-03790	LABEL, REAR	1							
10	2	172A29-03800	LABEL, GREASE US	1							
11	2	172B04-03970	LABEL, REFLECTOR S	2							
12	1	172A54-03010	EMBLEM ASSY, FY S3 Y	1							



MACHINE SERIAL No.
IS STAMPED INTO
THIS LOCATION.

MACHINE SERIAL No.
ENGINE No. IS STAMPED
INTO THIS LOCATION.

SAFETY LABEL

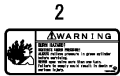
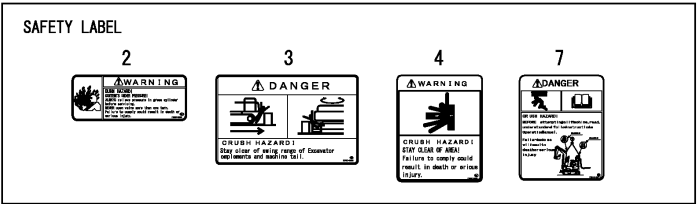
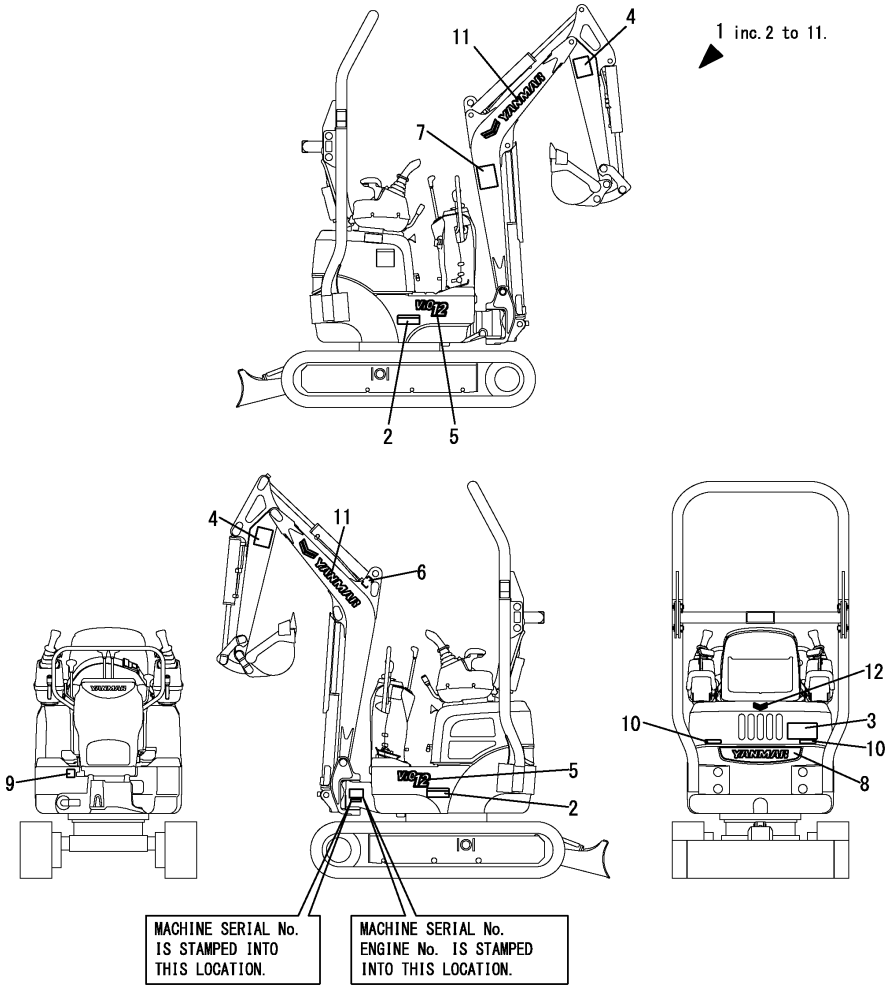


Fig.84. (1A)LABEL(EXTERIOR)(PREMIUM RED SPEC.)

(A)=VIO12-2A P(KR)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172B58-08210	LABEL SET,OUT EX PR	1							
2	2	172437-03352	LABEL, GREASE CYL US	2							
3	2	172A64-03380	LABEL, SWING AREA US	1							
4	2	172437-03461	LABEL, BOOM	2							
5	2	172B58-03470	LABEL, MODEL VIO12	2							
6	2	172437-03512	LABEL,LIFTING	1							
7	2	172446-03711	LABEL, LIFT US	1							
8	2	172A54-03790	LABEL, REAR	1							
9	2	172A29-03800	LABEL, GREASE US	1							
10	2	172B04-03970	LABEL, REFLECTOR S	2							
11	2	172A86-04330	LABEL,FY&YANMAR 280W	2							
12	1	172A54-03030	EMBLEM ASSY,FY S3 BK	1							

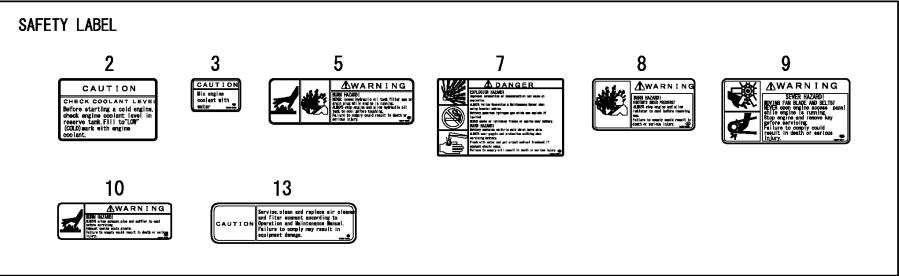
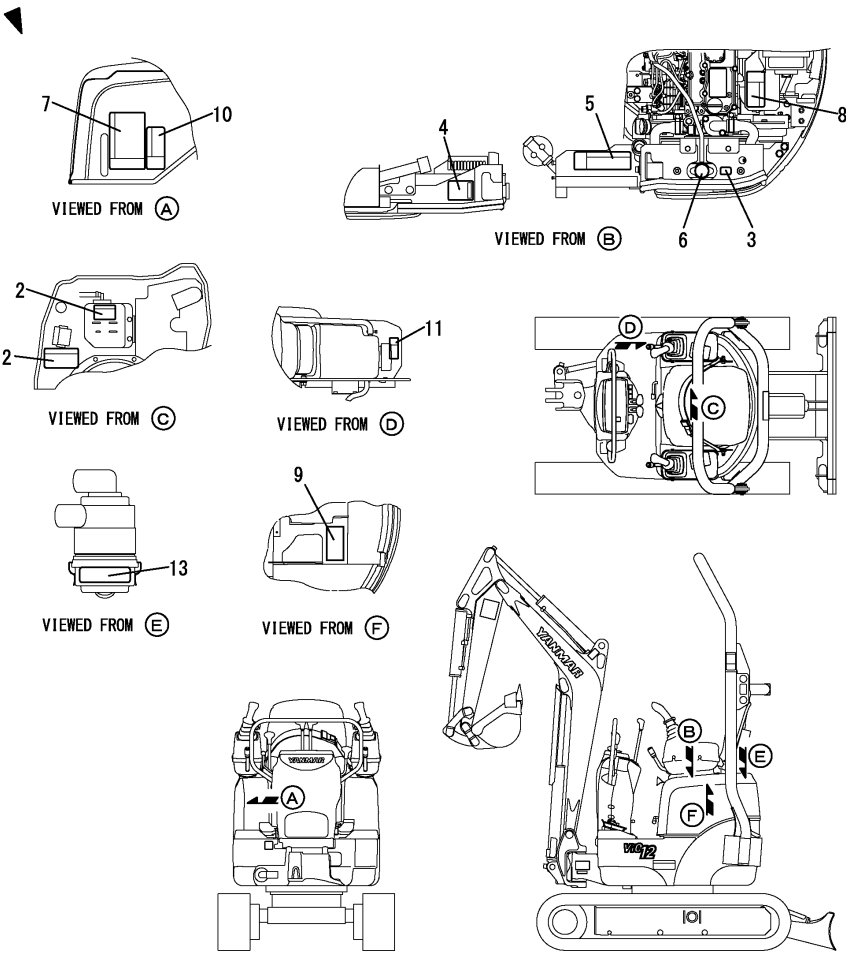


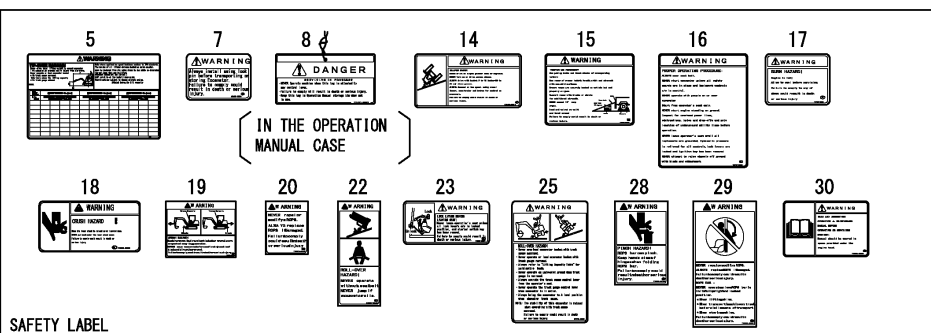
(A)=VIO12-2A P(KR)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172B58-08120	LABEL SET,IN EX	1							
2	2	172A38-03201	LABEL, SUB TANK	1							
3	2	172A38-03211	LABEL, ANTI-FREEZING	1							
4	2	172463-03290	LABEL, OILING US	1							
5	2	172437-03322	LABEL, RESERVOIR US	1							
6	2	172462-03320	LABEL, RADIATOR	1							
7	2	172437-03361	LABEL, BATTERY	1							
8	2	172437-03391	LABEL, RADIATOR	1							
9	2	172A36-03411	LABEL, ENGINE ROOM	1							
10	2	172437-03422	LABEL, SILENCER	1							
11	2	172437-03501	LABEL, FUEL US	1							
12	2	172446-03632	LABEL, FUSE US	1							
13	2	172125-03951	LABEL, AIR CLEANER	1							

1 inc. 2~13.

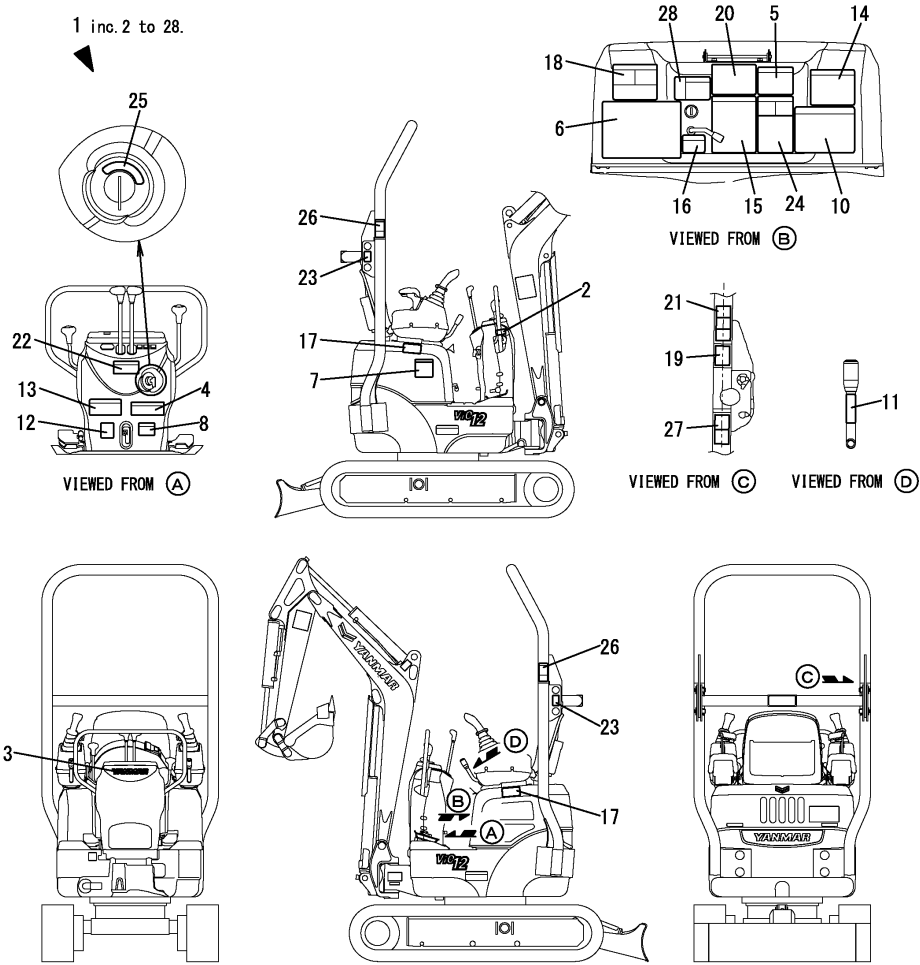




No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172B58-08130	LABEL SET, ROPS EX	1							
1-1	1	172B58-08200	LABEL SET, ROPS KR	1							S
		(A=M22733)									
2	2	172448-03180	LABEL, W/S OPERATION	1							
3	2	172B58-03210	LABEL, SPEC. EX	1							
4	2	172480-03220	LABEL, GREASING	1							
5	2	172B58-03220	LABEL, LIFT ROPS US	1							Z
		(A=M22733)									
6	2	172437-03242	LABEL,ADJUST CRAWLER	1							
7	2	172433-03251	LABEL, SWING LOCK US	1							
8	2	172437-03252	TAG ASSY, CAUTION	1							
11	2	172A54-03250	LABEL,OIL&WATER EX N	1							
12	2	172183-03280	LABEL, LOCK	2							
13	2	172137-03300	LABEL, TURNING LOCK	1							
14	2	172437-03312	LABEL, SLOPE	1							
15	2	172437-03343	LABEL, TRANSPORT	1							
16	2	172437-03372	LABEL, NEUTRAL	1							
17	2	172437-03402	LABEL, ENGINE COVER	1							
18	2	172B58-03410	LABEL,PINCH LEVER US	2							
19	2	172437-03432	LABEL, STEERING	1							
20	2	172437-03441	LABEL, ROPS US	1							
21	2	172446-03440	LABEL, OPERATION EP	1							
22	2	172437-03451	LABEL, SEAT BELT	1							
23	2	172437-03471	LABEL, LEVER LOCK US	1							
24	2	172437-03511	LABEL, LIFTING	2							
24-1	2	172437-03512	LABEL,LIFTING	2							N
		(A=M22344)									
25	2	172446-03652	LABEL, VARIABLE US	1							
26	2	172A64-03700	LABEL, START SWITCH	1							
27	2	172A86-03720	LABEL, YANMAR 200 B	1							
28	2	172A29-03740	LABEL, PINCH ROPS	2							
29	2	172A29-03750	LABEL, FOLDING ROPS	1							
30	2	172A29-03760	LABEL, MANUAL US	1							

N:Old $\xrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.85. (3A)LABEL(AROUND THE CONTROL)(PREMIUM RED SPEC.)



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172B58-08220	LABEL SET,ROPS EX PR	1							
2	2	172448-03180	LABEL, W/S OPERATION	1							
3	2	172B16-03180	LABEL,BRAND LOGO 200	2							
4	2	172B58-03210	LABEL, SPEC. EX	1							
5	2	172480-03220	LABEL, GREASING	1							
6	2	172B58-03220	LABEL, LIFT ROPS US	1							
7	2	172437-03242	LABEL,ADJUST CRAWLER	1							
8	2	172433-03251	LABEL, SWING LOCK US	1							
9	2	172437-03252	TAG ASSY, CAUTION	1							
10	2	172A54-03250	LABEL,OIL&WATER EX N	1							
11	2	172183-03280	LABEL, LOCK	2							
12	2	172137-03300	LABEL, TURNING LOCK	1							
13	2	172437-03312	LABEL, SLOPE	1							
14	2	172437-03343	LABEL, TRANSPORT	1							
15	2	172437-03372	LABEL, NEUTRAL	1							
16	2	172437-03402	LABEL, ENGINE COVER	1							
17	2	172B58-03410	LABEL,PINCH LEVER US	2							
18	2	172437-03432	LABEL, STEERING	1							
19	2	172437-03441	LABEL, ROPS US	1							
20	2	172446-03440	LABEL, OPERATION EP	1							
21	2	172437-03451	LABEL, SEAT BELT	1							
22	2	172437-03471	LABEL, LEVER LOCK US	1							
23	2	172437-03512	LABEL,LIFTING	2							
24	2	172446-03652	LABEL, VARIABLE US	1							
25	2	172A64-03700	LABEL, START SWITCH	1							
26	2	172A29-03740	LABEL, PINCH ROPS	2							
27	2	172A29-03750	LABEL, FOLDING ROPS	1							
28	2	172A29-03760	LABEL, MANUAL US	1							

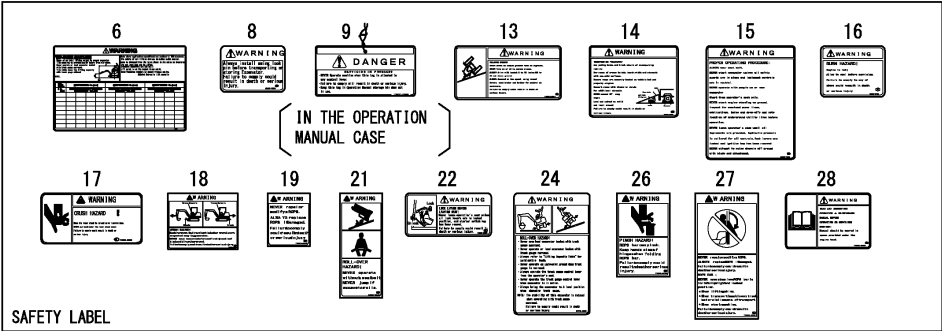


Fig.4. SILENCER

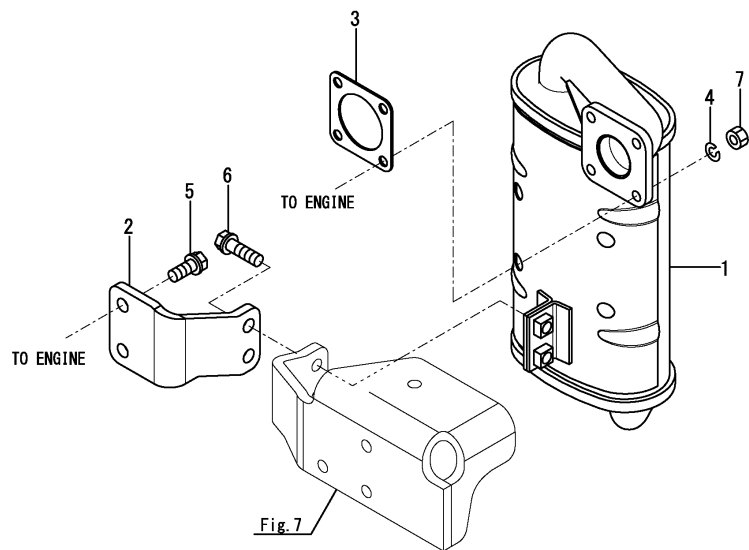


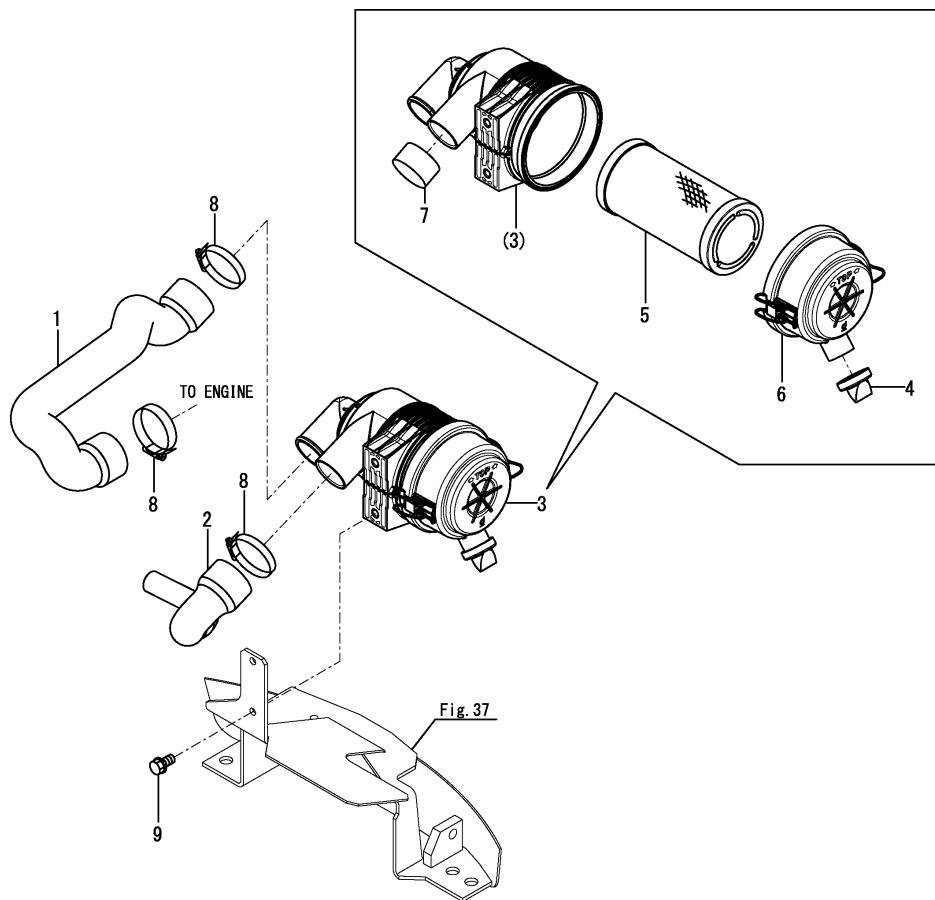
Fig. 7

(A)=VIO12-2A P(KR)
(B)=
(C)=

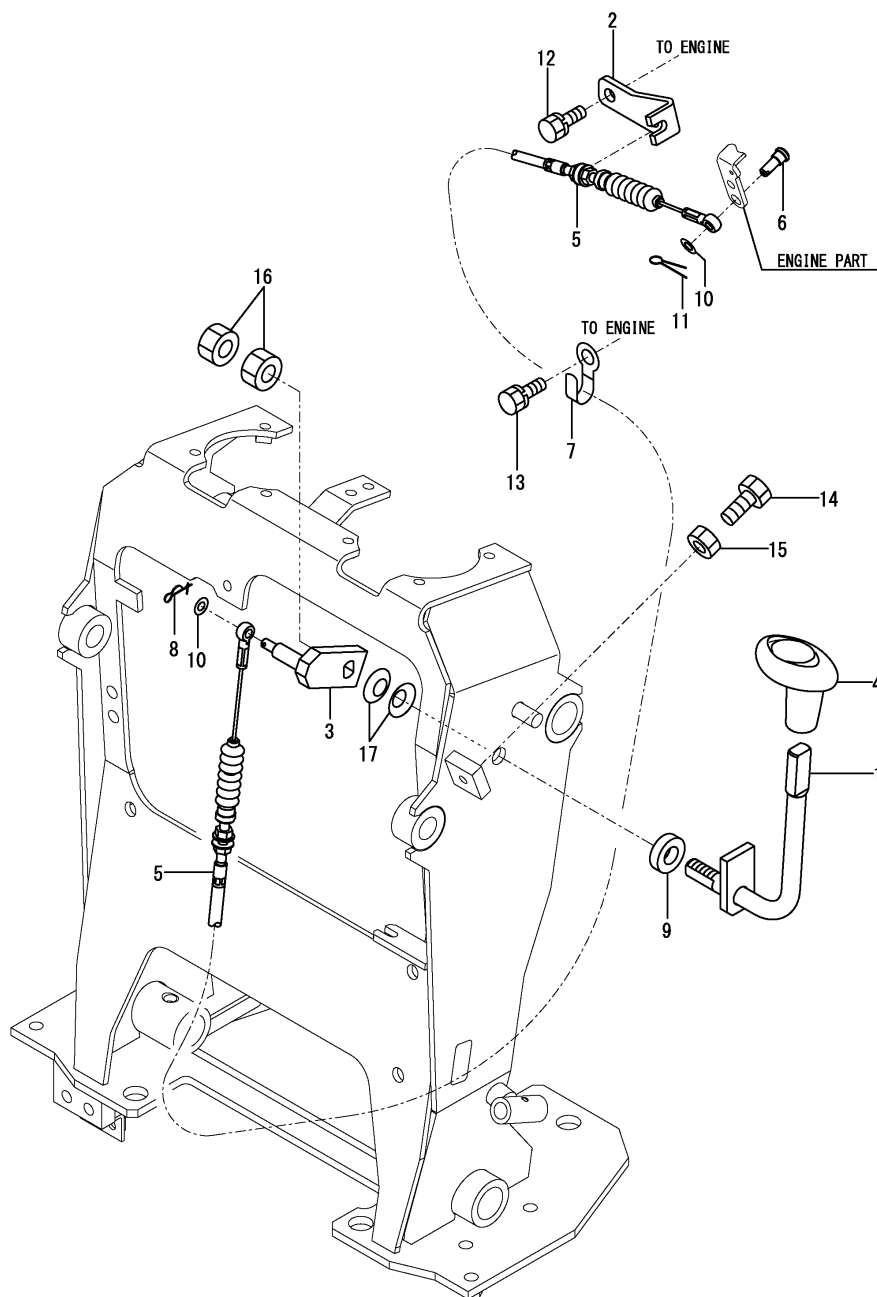
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A54-11310	SILENCER ASSY	1							
2	1	172A54-11320	STAY,SILENCER	1							
3	1	124701-11911	GASKET, SILENCER	1							
4	1	22217-080000	WASHER, SPRING 8	4							
5	1	26013-100252	BOLT, M10X 25	2							
6	1	26013-100352	BOLT, M10X 35	2							
7	1	26716-080002	NUT, M8	4							

Fig.5. AIR CLEANER



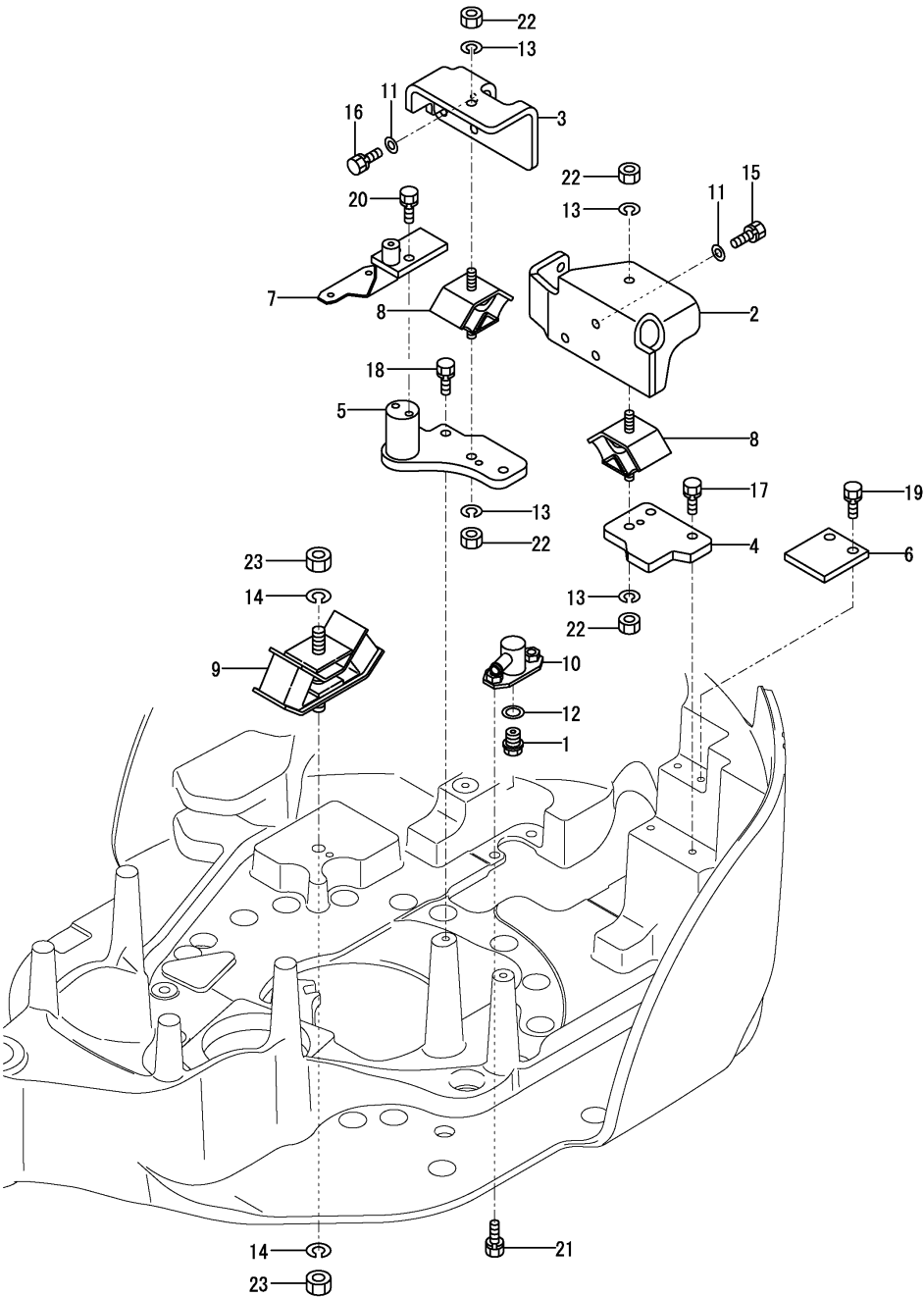
No.	Lev.	Parts No.	Description	(A)=VIO12-2A P(KR)		(D)=		(E)=		I	R
				(B)=	(C)=	(C)	(D)	(E)	(F)		
1	1	172A54-11500	HOSE, AIR CLEANER A			1					
2	1	172A54-11510	HOSE, AIR CLEANER B			1					
3	1	172A20-11550	CLEANER ASSY, AIR			1					
4	2	119808-12540	VALVE, UNLODER			1					
5	2	119655-12560	ELEMENT			1					
6	2	119655-12570	COVER ASSY			1					
7	2	105027-12580	RING, VALVE			1					
8	1	23000-054000	CLAMP, 54			3					
9	1	26013-080162	BOLT, M8X 16			2					



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172446-12100-1	LEVER, ACCELERATOR	1							
2	1	172A54-12101	BRACKET, ACCEL.	1							
3	1	172446-12130	ARM ASSY	1							
4	1	172146-12150	GRIP, ACCELERATOR	1							
5	1	172A54-12200	CABLE, ACCELERATOR	1							
6	1	172113-12522	PIN, CABLE	1							
7	1	172126-16540	CLAMP, 10X70	1							
8	1	1C6281-52310	PIN, SNAP 6	1							
9	1	172156-61320	COLLAR	1							
10	1	22137-060000	WASHER, 6	2							
11	1	22417-200160	PIN, COTTER 2.0X16	1							
12	1	26013-080202	BOLT, M8X 20	2							
13	1	26013-080202	BOLT, M8X 20	1							
14	1	26116-080254	BOLT, M8X 25 PLATED	1							
15	1	26756-080002	NUT, LOCK M8	1							
16	1	26756-120002	NUT, LOCK M12	2							
17	1	933170-01490	SPRING	2							

(A)=VIO12-2A P(KR)
(B)=
(C)=

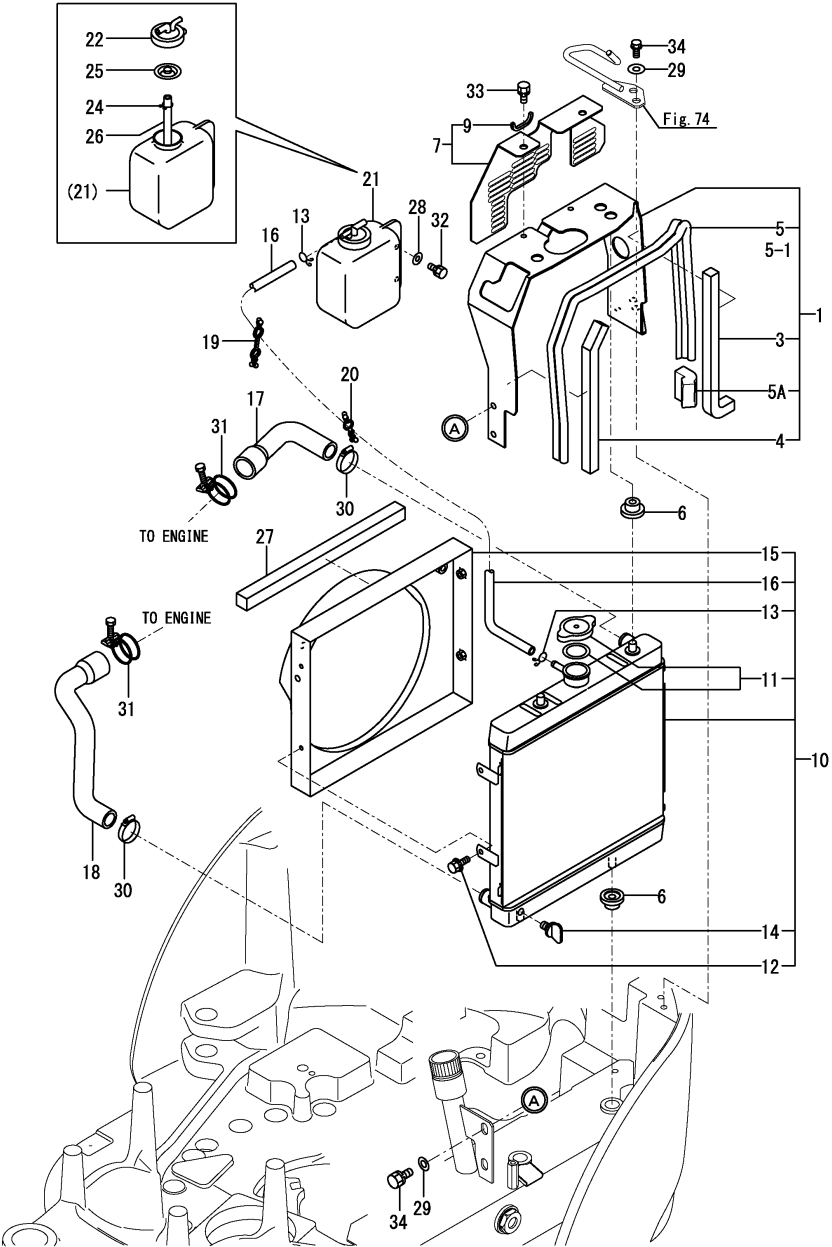
(D)=
(E)=
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	105425-01690	PLUG, DRAIN M16	1							
2	1	172A54-13100	MOUNT, ENGINE FL	1							
3	1	172A54-13110	MOUNT, ENGINE FR	1							
4	1	172A54-13120	STAY, ENGINE FL	1							
5	1	172A54-13130	STAY ASSY, ENG FR	1							
6	1	172157-13160	PLATE, STOPPER	1							
7	1	172480-13160	PLATE ASSY, STOPPER	1							
8	1	172179-13211	RUBBER, ABSORBER	2							
9	1	172447-13260	RUBBER, ABSORBER 290K	1							
10	1	172A54-13701	BLOCK ASSY, DRAIN	1							
11	1	22137-100000	WASHER, 10	6							
12	1	22190-160002	WASHER, SEAL 16	1							
13	1	22217-100000	WASHER, SPRING 10	4							
14	1	22217-140000	WASHER, SPRING 14	2							
15	1	26013-100252	BOLT, M10X 25	3							
16	1	26013-100252	BOLT, M10X 25	3							
17	1	26013-100252	BOLT, M10X 25	2							
18	1	26013-100252	BOLT, M10X 25	2							
19	1	26013-100252	BOLT, M10X 25	2							
20	1	26013-100252	BOLT, M10X 25	2							
21	1	26013-100252	BOLT, M10X 25	2							
22	1	26716-100002	NUT, M10	4							
23	1	26736-140002	NUT, M14	2							

(A)=VIO12-2A P(KR)
(B)=
(C)=

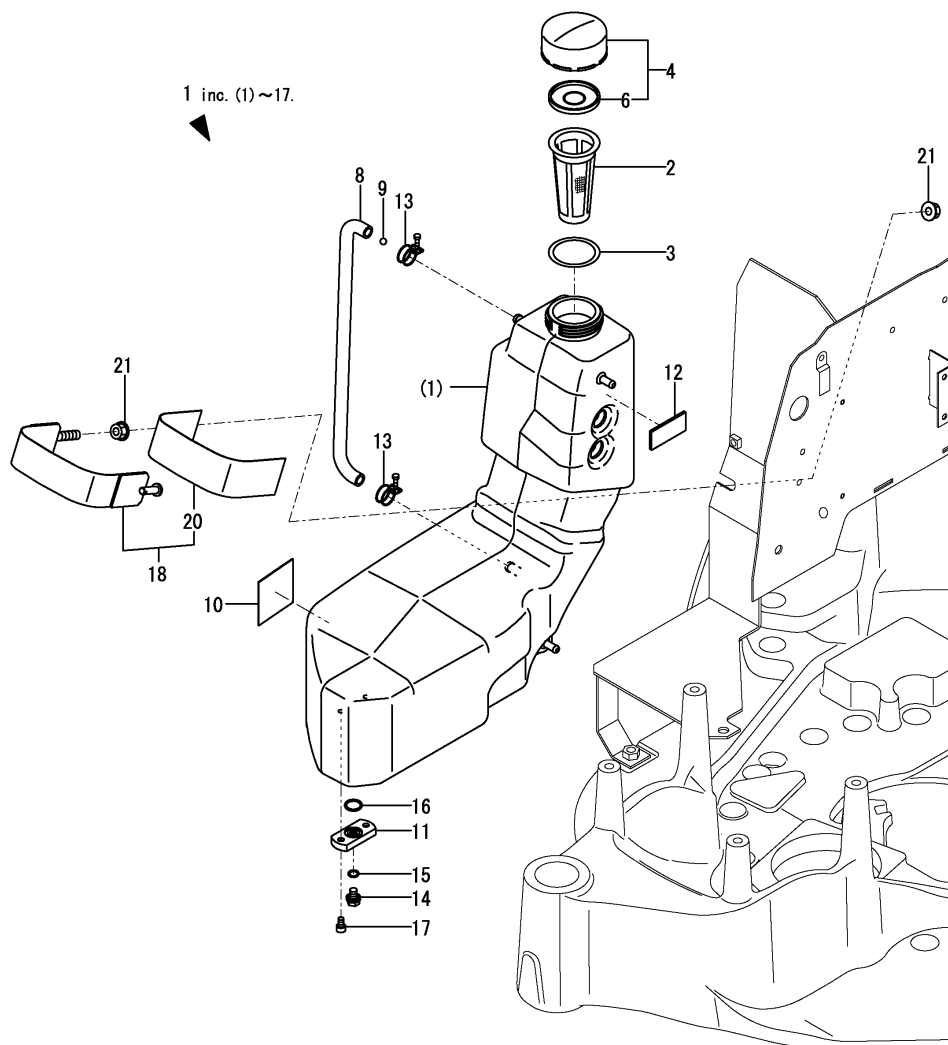
(D)=
(E)=
(F)=



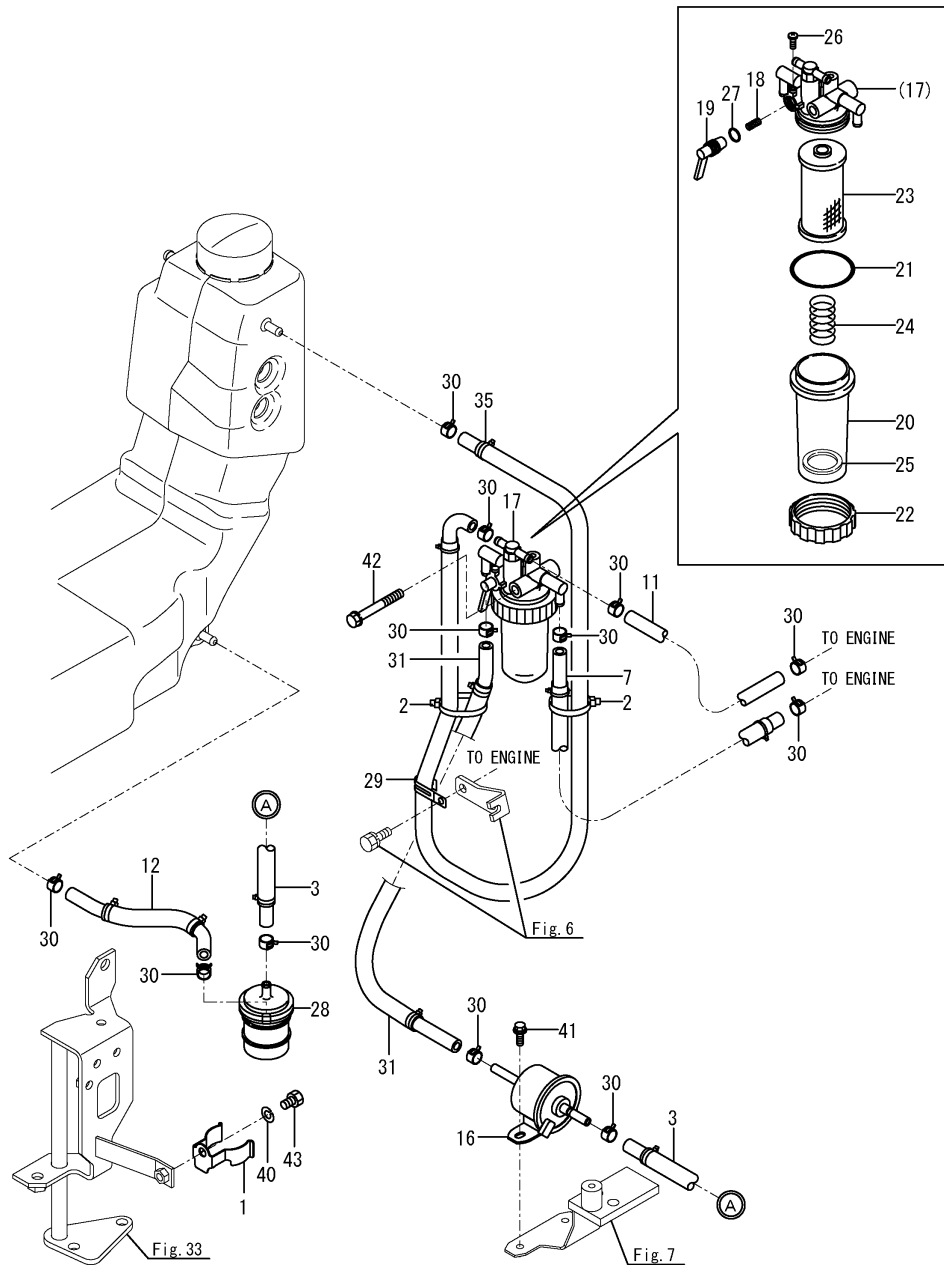
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A54-13302	MOUNT ASSY, RAD	1							
1-1	1	172A54-13303	MOUNT ASSY,RADIATOR	1						N	
(A=M21651)											
3	2	172480-13520	SEAL, A	1							
4	2	172446-13570	SEAL, RADIATOR F	1							
5	2	172989-68640	RUBBER, SEAL 880	1							
5-1	2	172162-61330	SEAL, COVER A	1						S	1
(A=M21651)											
5A	2	172B58-13960	SEAL, OC	1						W	
(A=M21651)											
6	1	172446-13330	RUBBER, ABSORBER	4							
7	1	172A54-13340	GUARD ASSY, FAN	1							
9	2	172A54-13360	TRIM, 60	1							
10	1	172A54-13510	RADIATOR ASSY	1							
11	2	172446-13450	CAP, PRESSURE	1							
12	2	172446-13470	BOLT ASSY	4							
13	2	172446-13490	CLIP	2							
14	2	172446-13500	COCK ASSY	1							
15	2	172A54-13550	SHROUD ASSY	1							
16	2	172480-13560	HOSE, RUBBER	1							
17	1	172A54-13600	HOSE, AIR CLEANER A	1							
18	1	172A54-13610	HOSE, RADIATOR B	1							
19	1	172137-16560	BAND, BINDING W	1							
20	1	172137-16560	BAND, BINDING W	1							
21	1	121468-44520	TANK ASSY, SUB	1							
22	2	121450-44531	CAP	1							
24	2	124450-44560	CLAMP, PIPE	1							
25	2	121470-44581	GASKET	1							
26	2	23065-070130	PIPE, 7X 130	1							
27	1	172447-65710	SEAL, DUCT	1							
28	1	22137-060000	WASHER, 6	2						Z	
(A=*2026.04.)											
29	1	22137-100000	WASHER, 10	4							
30	1	23001-025000	CLAMP, HOSE 25	2							
31	1	23010-038000	CLAMP, 38	2							
32	1	26013-060202	BOLT, M6X 20	2							
32-1	1	26014-060202	BOLT, M6X 20	2						N	
(A=2026.04.)											
33	1	26013-080162	BOLT, M8X 16	2							
34	1	26013-100202	BOLT, M10X 20	4							

Remarks
(1)Full length = No.5 : 880mm, No.5-1 : 810mm.

Fig.9. FUEL TANK



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172480-14100	TANK ASSY, FUEL	1							
2	2	194151-04141	STRAINER, FUEL TANK	1							
3	2	194151-04150	GASKET, STRAINER	1							
4	2	194250-04301	CAP ASSY, FUEL TANK	1							
6	3	194250-04321	VALVE, VENT	1							
8	2	172446-14150	HOSE, FUEL GAUGE	1							
9	2	172447-14160	FLOAT, 7	1							
10	2	172446-14250	PLATE, RUBBER C	1							
11	2	172447-14310	BLOCK, DRAIN	1							
12	2	172157-78600	RUBBER PLATE	1							
13	2	23010-014000	CLAMP, 14	2							
14	2	23491-080002	PLUG, 8	1							
15	2	24311-000090	O-RING, 1AP9.0	1							
16	2	24311-000160	O-RING, 1AP16.0	1							
17	2	26450-060102	BOLT, M6X 10	2							
18	1	172480-14200	CLAMP ASSY, FUEL	1							
20	2	172480-14230	PLATE, RUBBER	1							
21	1	26367-100002	NUT, M10	2							

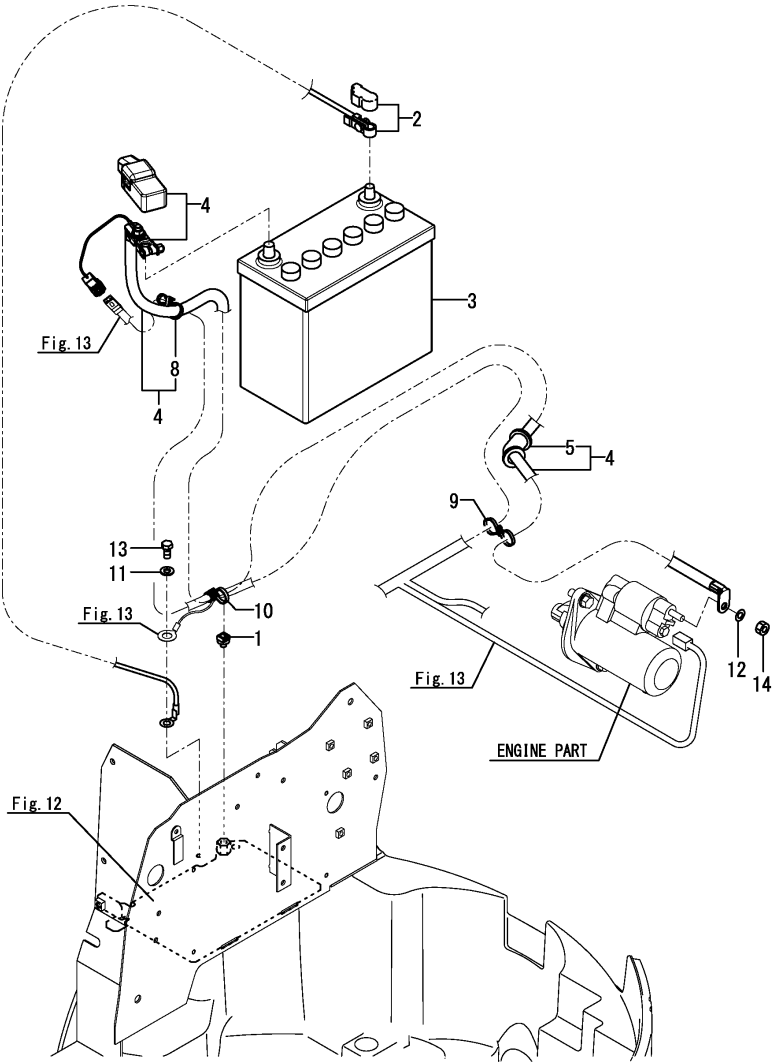


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198072-04320	CLAMP, FILTER	1							
2	1	172126-11510	BAND, BINDING 300	2							
3	1	172186-13810	HOSE ASSY, 500	1							
7	1	172186-13810	HOSE ASSY, 500	1							
11	1	172141-14620	HOSE, FUEL	1							
12	1	172456-14630	HOSE ASSY, FUEL 150	1							
16	1	119225-52102	PUMP, FUEL FEED	1							
17	1	129053-55621	FILTER ASSY, FUEL	1							
18	2	104200-55330	SPRING, FUEL VALVE	1							
19	2	119810-55340	LEVER, FUEL	1							
20	2	129107-55510	CUP, STRAINER	1							
21	2	102103-55520	O-RING, FILTER	1							
22	2	110250-55610	RING, CUP RETAINING	1							
23	2	119810-55650	ELEMENT, FUEL FILTER	1							
24	2	121257-55720	SPRING, ELEMENT	1							
25	2	121257-55731	FLOAT	1							
26	2	104200-55750	SCREW, M4	1							
27	2	24311-240100	O-RING, 1AP10A	1							
28	1	129052-55630	FILTER, FUEL INLET	1							
29	1	1A1686-57850	CLAMP, 80	1							
30	1	124766-59050	CLAMP, HOSE 11.5	12							
31	1	184015-59230	HOSE ASSY, FUEL	1							
35	1	184015-59250	HOSE ASSY, FUEL 850	1							
40	1	22217-080000	WASHER, SPRING 8	1							
41	1	26014-060162	BOLT, M6X 16	2							
42	1	26013-080702	BOLT, M8X 70	1							
43	1	26116-080122	BOLT, M8X 12 PLATED	1							

Fig.11. BATTERY

(A)=VIO12-2A P(KR)
(B)=
(C)=

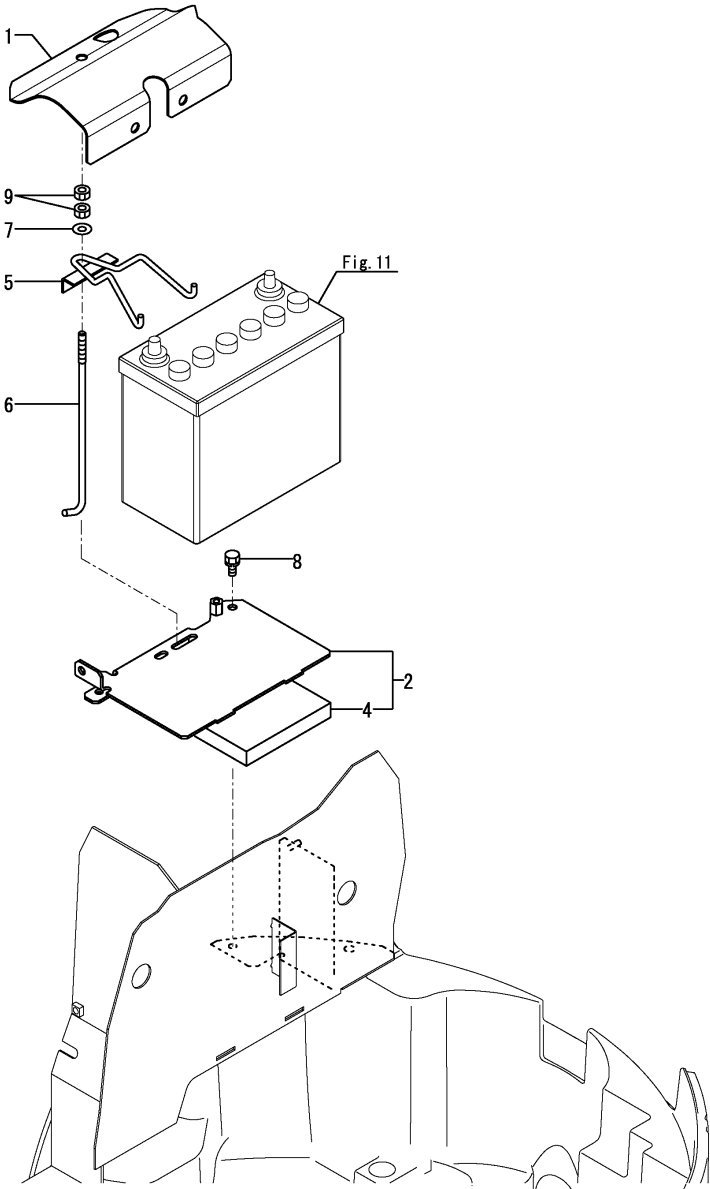
(D)=
(E)=
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172B04-13040	CLIP, TREE	1							
2	1	172156-16110	CABLE, - BATTERY	1							
3	1	172458-16110	BATTERY	1							
3-1	1	172458-16111 (A=M23787)	BATTERY,65B24L	1							N
4	1	172480-16111	WIRE ASSY,BATT.PLUS	1							
5	2	172A54-16070	RUBBER, PROTECT 55	1							
8	2	172137-16560	BAND, BINDING W	1							
9	1	172137-16560	BAND, BINDING W	1							
10	1	172137-16560	BAND, BINDING W	1							
11	1	22137-080000	WASHER, 8	1							
12	1	22217-080000	WASHER, SPRING 8	1							
13	1	26116-080162	BOLT, M8X 16 PLATED	1							
14	1	26716-080002	NUT, M8	1							

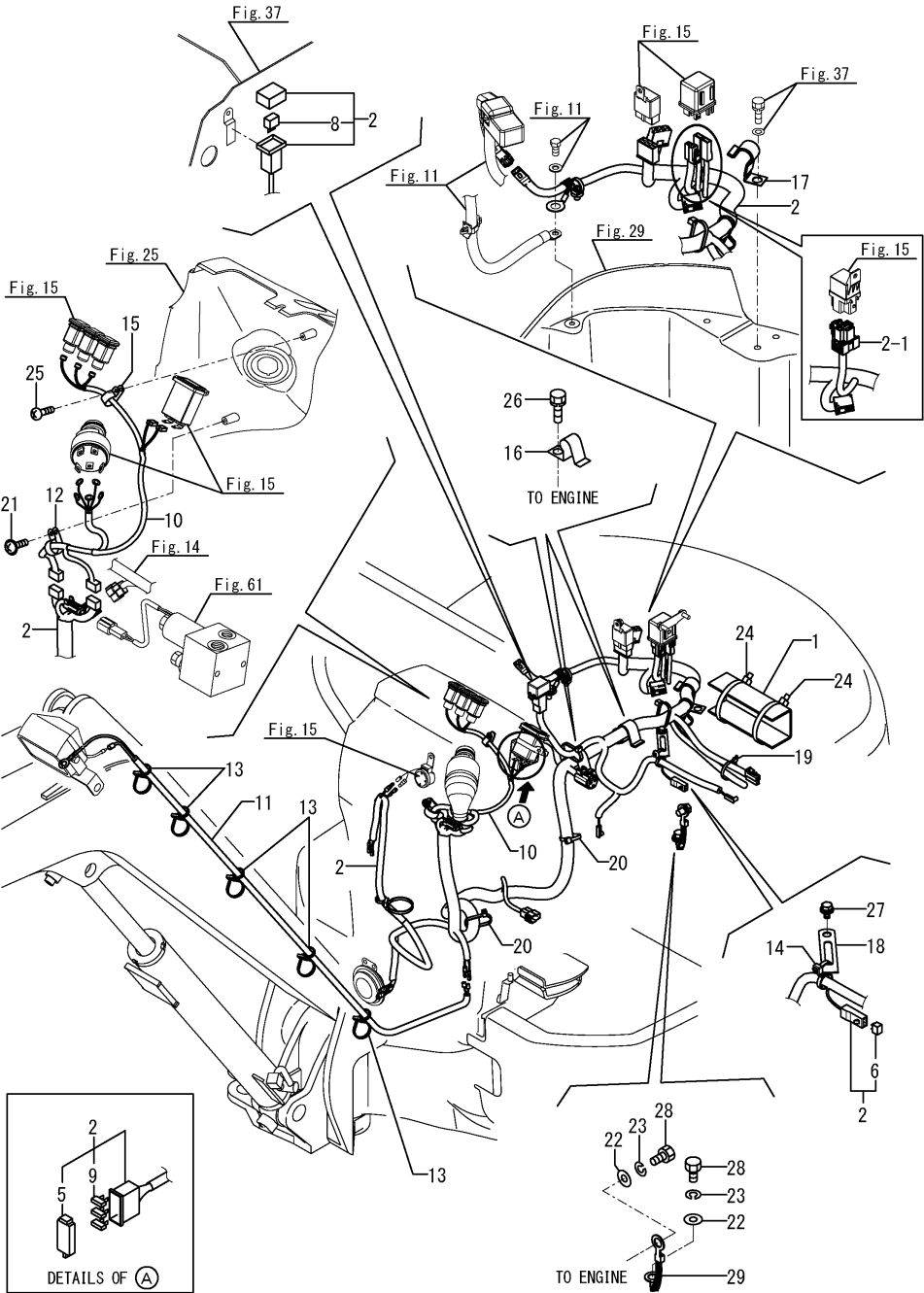
(A)=VIO12-2A P(KR)
(B)=
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A54-16100	COVER,BATTERY	1							
2	1	172480-16290	MOUNT ASSY, BATTERY	1							
4	2	172480-16320	EV MOUNT-B	1							
5	1	172446-16320-1	CLAMP ASSY, BATTERY	1							
6	1	172164-16370	ROD	1							
7	1	22137-080000	WASHER, 8	1							
8	1	26013-080162	BOLT, M8X 16	2							
9	1	26716-080002	NUT, M8	2							

Fig.13. WIRING(1)

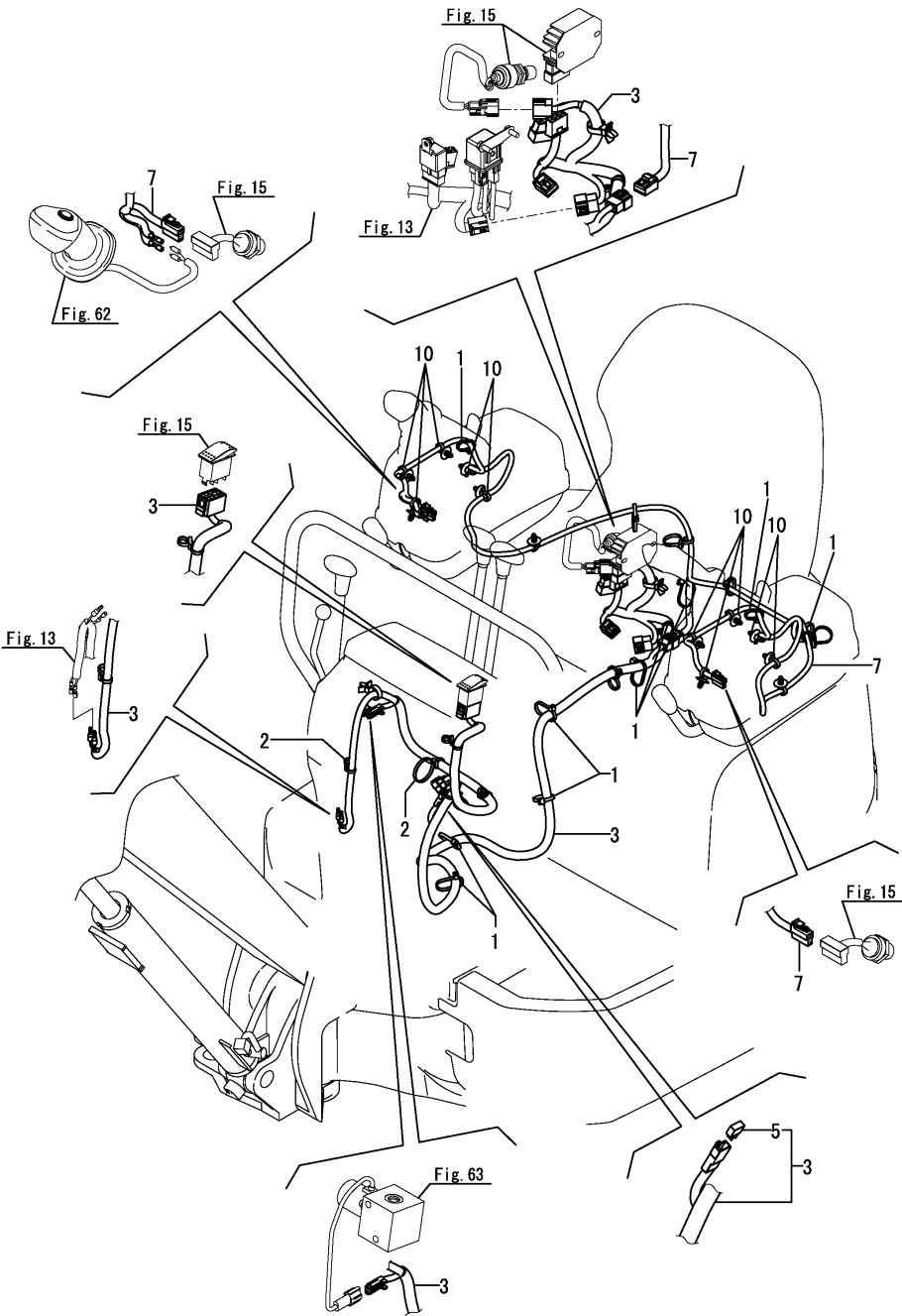


(A)=VIO12-2A P(KR)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172164-11310	MAT	1							
2	1	172A54-16501	HARNESS ASSY, WIRE A	1							
2-1	1	172A54-16502	HARNESS ASSY ,A	1							S
(A=*2023.12)											
5	2	172183-16590	COVER, FUSE	1							
6	2	172648-16600	DIODE, 1.5-2P	1							
8	2	172447-17150	FUSE, SLOW BLOW 40A	1							
9	2	29420-100000	FUSE, B 10A	3							
10	1	172480-16511	HARNESS, WIRE	1							
11	1	172186-16541	HARNESS, WORK LAMP	1							
12	1	172446-16550	CLAMP, NYLON 17.8	1							
13	1	172137-16560	BAND, BINDING W	5							
14	1	172137-16560	BAND, BINDING W	1							
15	1	172446-16560	CLAMP, NYLON 10.7	1							
16	1	172112-16650	CLAMP	2							
17	1	172112-16650	CLAMP	1							
18	1	194440-51620	CLAMP, B	1							
19	1	194250-51660	BAND, NYLON 250	1							
19-1	1	172126-11510	BAND, BINDING 300	1							N
(A=*2022.10.)											
20	1	1A1380-55310	CLAMP, WIRE	2							
21	1	194940-61790	SCREW, TAPPING M5X16	1							
22	1	22137-100000	WASHER, 10	2							
23	1	22217-100000	WASHER, SPRING 10	2							
24	1	22453-100300	WIRE, 1.0	2							
25	1	22857-400120	SCREW, 4X12	1							
26	1	26013-100162	BOLT, M10X 16	2							
27	1	26014-060122	BOLT, M6X 12	1							
28	1	26116-100162	BOLT, M10X 16 PLATED	2							
29	1	933171-15801	CORD, ENGINE EARTH	1							

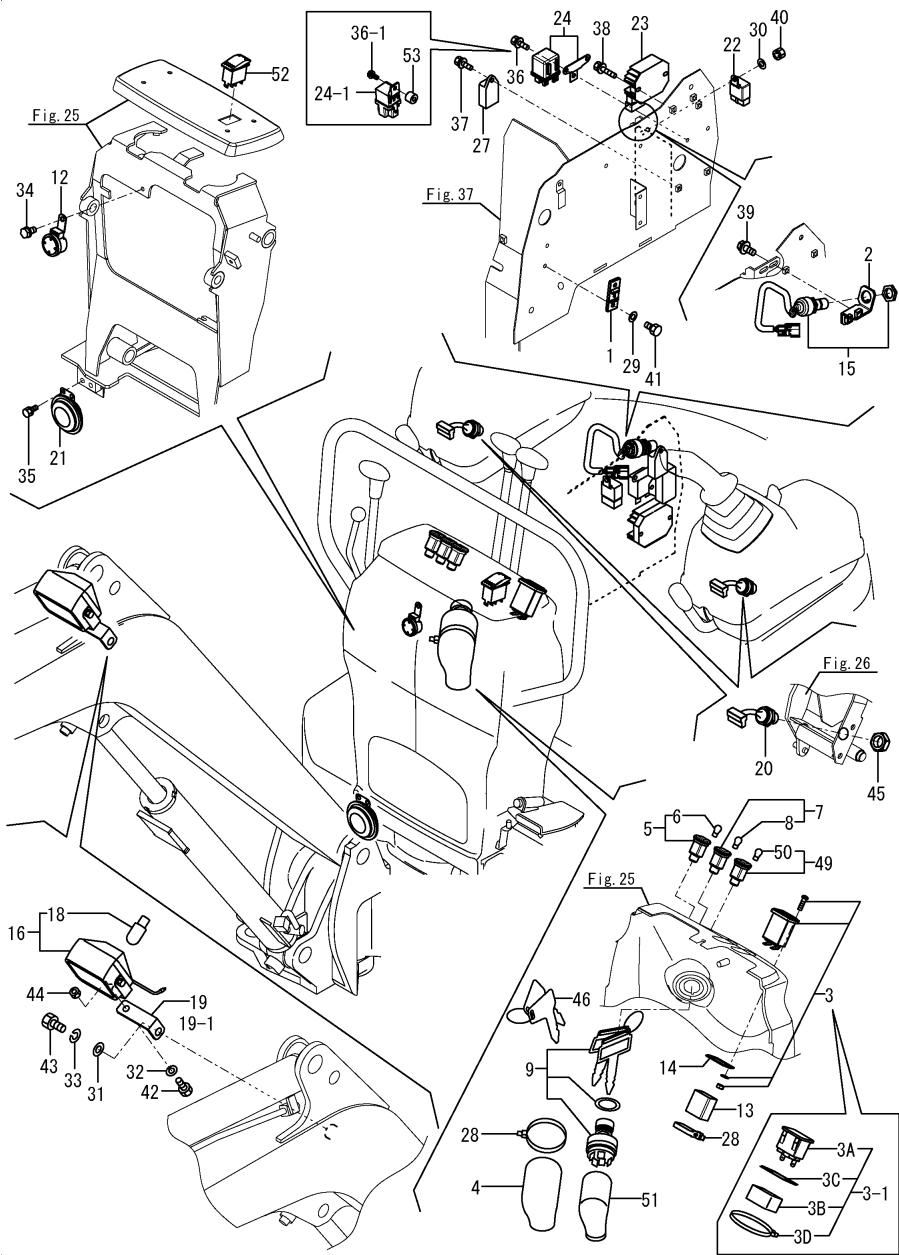
Fig.14. WIRING(2)



(A)=VIO12-2A P(KR)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172126-11510	BAND, BINDING 300	10							
2	1	172137-16560	BAND, BINDING W	2							
3	1	172B58-16560	HARNESS ASSY,LEVER A	1							
5	2	1A7500-51140	DIODE, 1.5AX2	1							
7	1	172B58-16580	HARNESS ASSY,LEVER B	1							
10	1	1E8915-84120	CLAMP, BAND C	10							

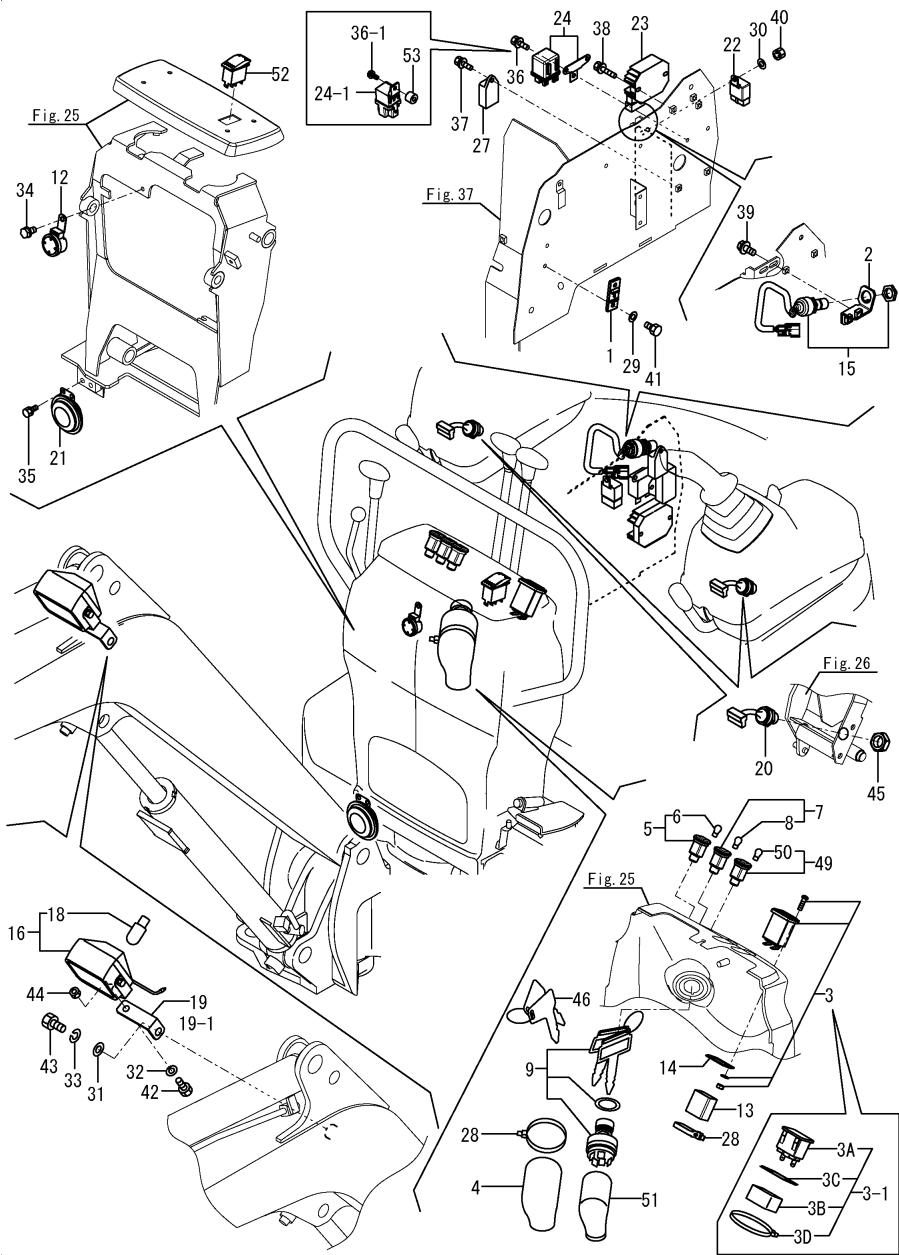


(A)=VIO12-2A P(KR)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172183-16550	BRACKET, FUSE	1							
2	1	172B58-16700	STAY ASSY, SWITCH	1							
3	1	172186-17100	METER, HOUR	1							
3-1	1	172A54-08650 (A=M22733)	HOUR METER KIT	1							N
3A	2	1C7200-08600 (A=M22733)	METER, HOUR	1							W
3B	2	172A80-17151 (A=M22733)	HEAT INSULATOR	1							W
3C	2	172A88-17150 (A=M22733)	PLATE, HOUR METER	1							W
3D	2	172122-79930 (A=M22733)	CLAMP, HOSE B	1							W
4	1	172446-17111	HEAT INSULATOR	1							
5	1	172149-17120	LAMP, CHG	1							
6	2	172149-17140	BULB, 12V 3.4W	1							
7	1	172149-17130	LAMP, TEMP	1							
8	2	172149-17140	BULB, 12V 3.4W	1							
9	1	172A29-17130	KEY ASSY	1							
12	1	172141-17150	BUZZER	1							
13	1	172480-17150	HEAT INSULATOR	1							Z
14	1	172A82-17150 (A=M22733)	PLATE, HOUR METER	1							Z
15	1	172B06-17170	SWITCH, PUSH	1							
16	1	172156-17401	LAMP ASSY, WORK	1							
18	2	172156-17420	BULB, 12V 27W	1							
19	1	172156-17430-Y	STAY, LAMP	1							
19-1	1	172156-17430-7 (A=M22344)	STAY, LAMP	1							S
20	1	194464-52190	SWITCH, SAFETY START	2							
21	1	194151-57100	HORN	1							
22	1	119247-77100	RELAY, POWER SN2213	1							
23	1	119230-77712	LIMITER, CURRENT	1							
24	1	119650-77911	RELAY ASSY, GLOW	1							
24-1	1	172B16-17190	RELAY, CB TYPE C	1							S
27	1	129211-77920 (A=*2023.12)	TIMER, SECTION 1	1							
28	1	172122-79930	CLAMP, HOSE B	2							
29	1	22137-060000	WASHER, 6	2							
30	1	22137-060000	WASHER, 6	1							
31	1	22137-100000	WASHER, 10	1							
32	1	22217-080000	WASHER, SPRING 8	1							
33	1	22217-100000 (A=*2022.10)	WASHER, SPRING 10	1							Z
34	1	26013-060122	BOLT, M6X 12	1							
35	1	26013-060122	BOLT, M6X 12	2							
36	1	26013-060162	BOLT, M6X 16	2							
36-1	1	26023-050202 (A=*2023.12)	SCREW, M5X20	1							S
37	1	26014-060162	BOLT, M6X 16	1							

Remarks
(1)For bonnet.



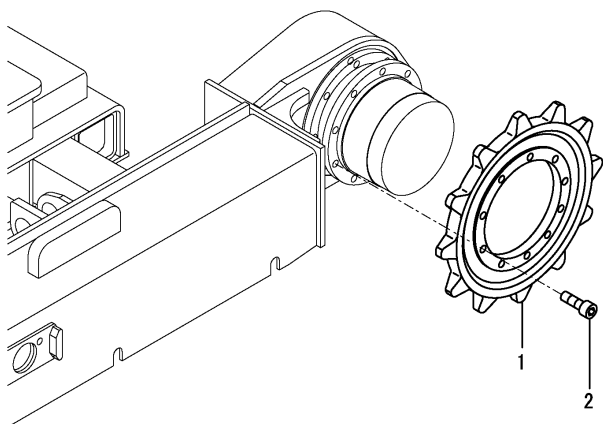
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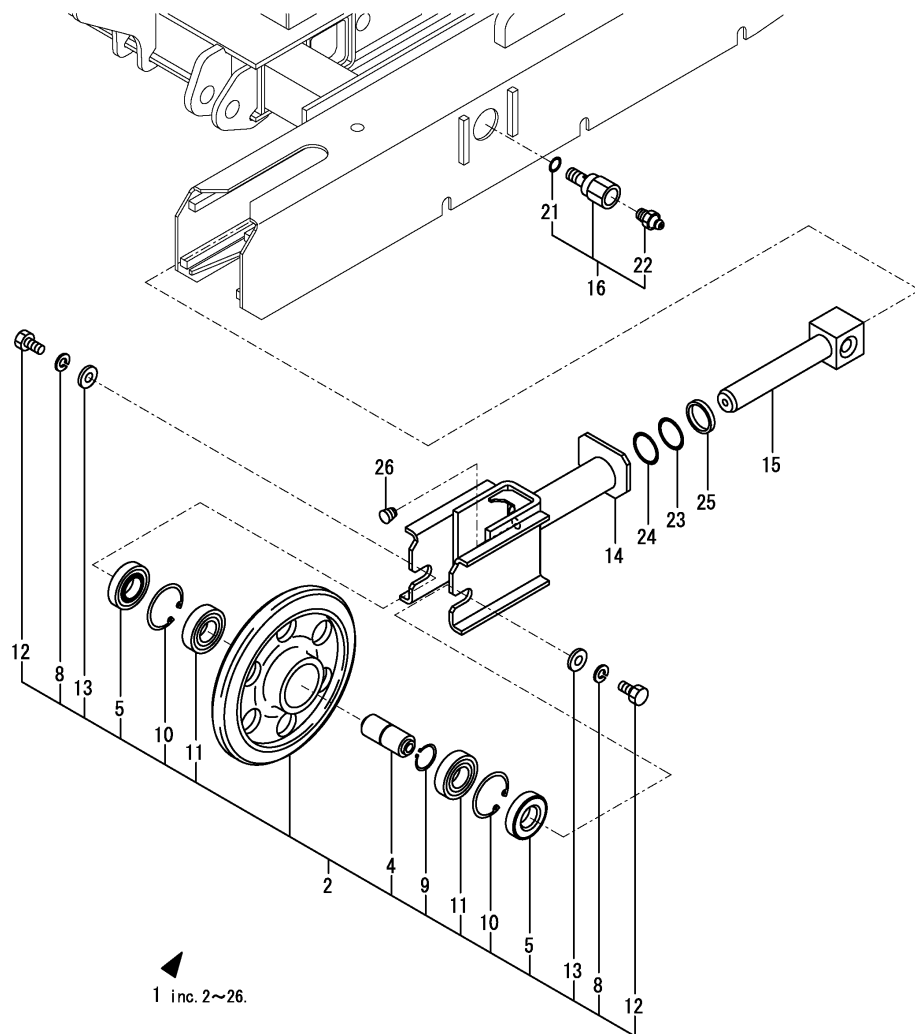
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
38	1	26014-060252	BOLT, M6X 25	2							
39	1	26014-080202	BOLT, M8X 20	2							
40	1	26051-060002	NUT, M6	1							
41	1	26116-060162	BOLT, M6X 16 PLATED	2							
42	1	26116-080162	BOLT, M8X 16 PLATED	1							
43	1	26116-100202	BOLT, M10X 20 PLATED	1							
43-1	1	26013-100202	BOLT, M10X 20	1							N
(A=*2022.10)											
44	1	26716-080002	NUT, M8	1							
45	1	26776-180002	NUT, LOCK M18	2							
46	1	933110-00301	KEY ASSY	1							1
49	1	933113-05190	LAMP, OIL	1							
50	2	933113-05180	BULB, 12V 3W	1							
51	1	933113-15900	COVER, TERMINAL	1							
51-1	1	933113-15901	COVER, TERMINAL	1							N
(A=M21900)											
52	1	172B58-17300	SWITCH, TRAVLE	1							
53	1	172A64-17640	COLLAR,5.8X13.8X10	1							W
(A=*2023.12)											

Remarks
(1)For bonnet.

Fig.16. SPROCKET

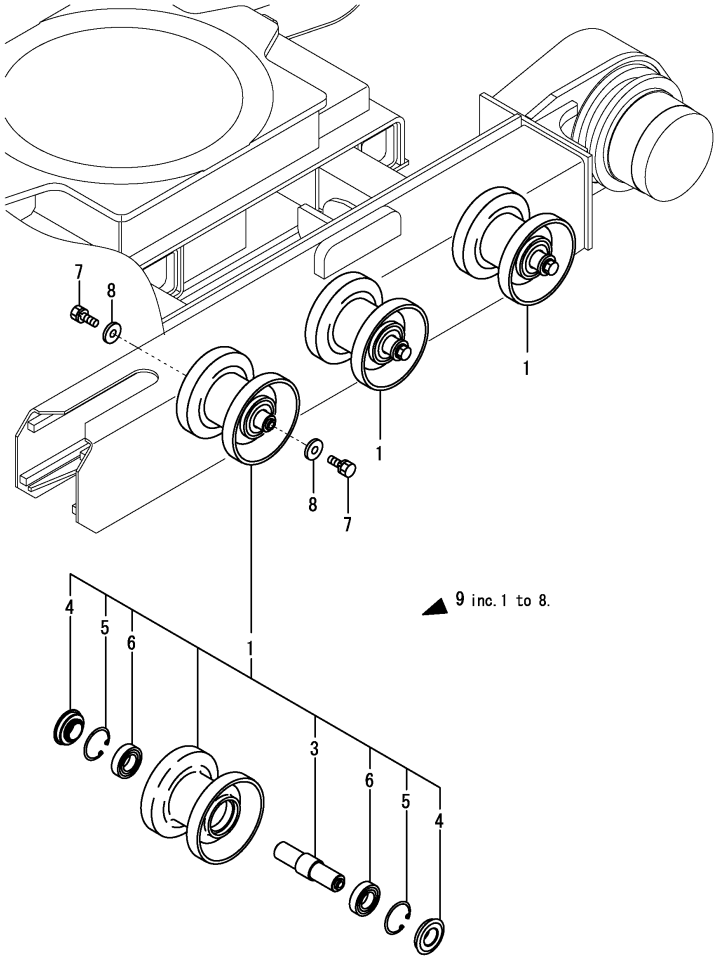
[illegible]



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	772480-37100-1	IDLER ASSY, ADJUST	2							
2	2	772446-37101	IDLER ASSY, 250	2							
4	3	172449-37110-1	SHAFT IDLER(GRAY:49)	2							
5	3	1A1060-48300	SEAL, QLN306213.2	4							
8	3	22217-120000	WASHER, SPRING 12	4							
9	3	22242-000300	RING, 30	2							
10	3	22252-000620	RING, 62	4							
11	3	24101-062064	BEARING, BALL 6206	4							
12	3	26116-120252	BOLT, M12X 25 PLATED	4							
13	3	933152-03700	WASHER, CLUTCH CAM	4							
14	2	172480-37710-1	FORK ASSY, IDLER	2							
15	2	172448-37800	TUBE ASSY, ADJUST	2							
16	2	172122-37844	VALVE ASSY, NIPPLE	2							
21	3	24315-000140	O-RING, 1BP14.0	2							
22	3	24761-020000	NIPPLE, GREASE PT1/8	2							
23	2	172137-37850	RING, BACKUP P30	2							
24	2	24315-000300	O-RING, 1BP30.0	2							
25	2	933126-38600	SEAL, DUST DKB	2							
26	2	933171-13691	PLUG, PT1/8	2							

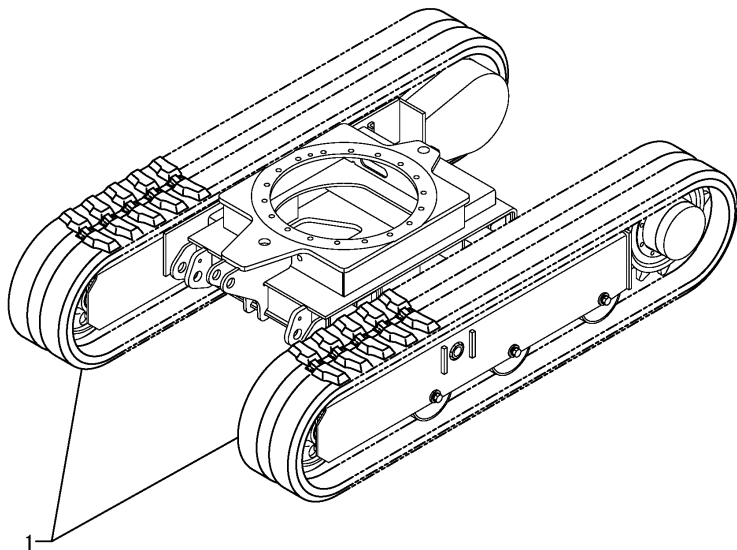
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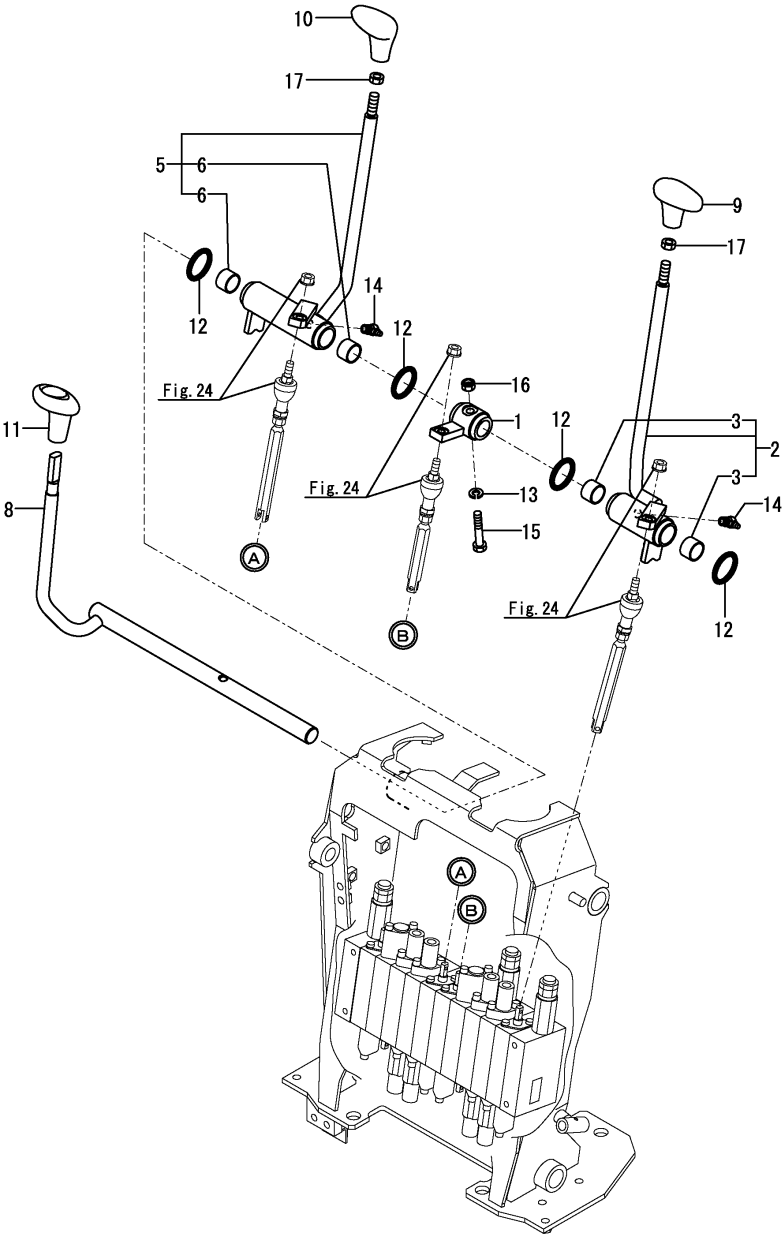
(D)=
(E)=
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A82-37300	ROLLER ASSY, LOWER	6							
1-1	1	172A82-37301	ROLLER ASSY, LOWER	6							R
(A=*2026.03)											
3	2	172A82-37320	SHAFT	6							
4	2	1E6140-73420	SEAL, OIL 25X52X18	12							
5	2	22252-000470	RING, 47	12							
6	2	24101-060054	BEARING, BALL 6005	12							
7	1	26013-120252	BOLT, M12X 25	12							
8	1	933152-03700	WASHER, CLUTCH CAM	12							
9	1	772446-37301	ROLLER	1							1

Remarks
(1)Spare parts.

[illegible]



(A)=VIO12-2A P(KR)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172447-45100	LINK ASSY, BLADE	1							
2	1	172480-45100-1	LEVER ASSY, TRACK L	1							
3	2	172141-41370	BUSH, 20 15	2							
5	1	172480-45120-1	LEVER ASSY, TRACK R	1							
6	2	172141-41370	BUSH, 20 15	2							
8	1	172480-45210-1	LEVER ASSY, BLADE	1							
9	1	172164-45951	GRIP, DRIVE L	1							
10	1	172164-45961	GRIP, DRIVE R	1							
11	1	172164-45970	GRIP, BLADE	1							
12	1	172124-46200	O-RING, 27.6X5.7	4							
13	1	22217-080000	WASHER, SPRING 8	1							
14	1	24761-050000	NIPPLE, GREASE C	2							
15	1	26116-080454	BOLT, M8X 45 PLATED	1							
16	1	26346-080002	NUT, M8	1							
17	1	26756-100002	NUT, LOCK M10	2							

(A)=VIO12-2A P(KR)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172480-45320-1	LEVER ASSY, VARIABLE	1							
3	2	24550-014150	BUSH, 14X15	2							
4	1	172480-45350	LINK,WIDEN/SHORTEN A	1							
5	1	172480-45800	LINK,WIDEN/SHORTEN B	1							
6	1	172446-45950	KNOB, LEVER	1							
7	1	1C6281-52310	PIN, SNAP 6	1							
8	1	22417-160160	PIN, COTTER 1.6X16	1							
9	1	24761-050000	NIPPLE, GREASE C	1							
10	1	933110-54100	PIN, 4.75X14	2							

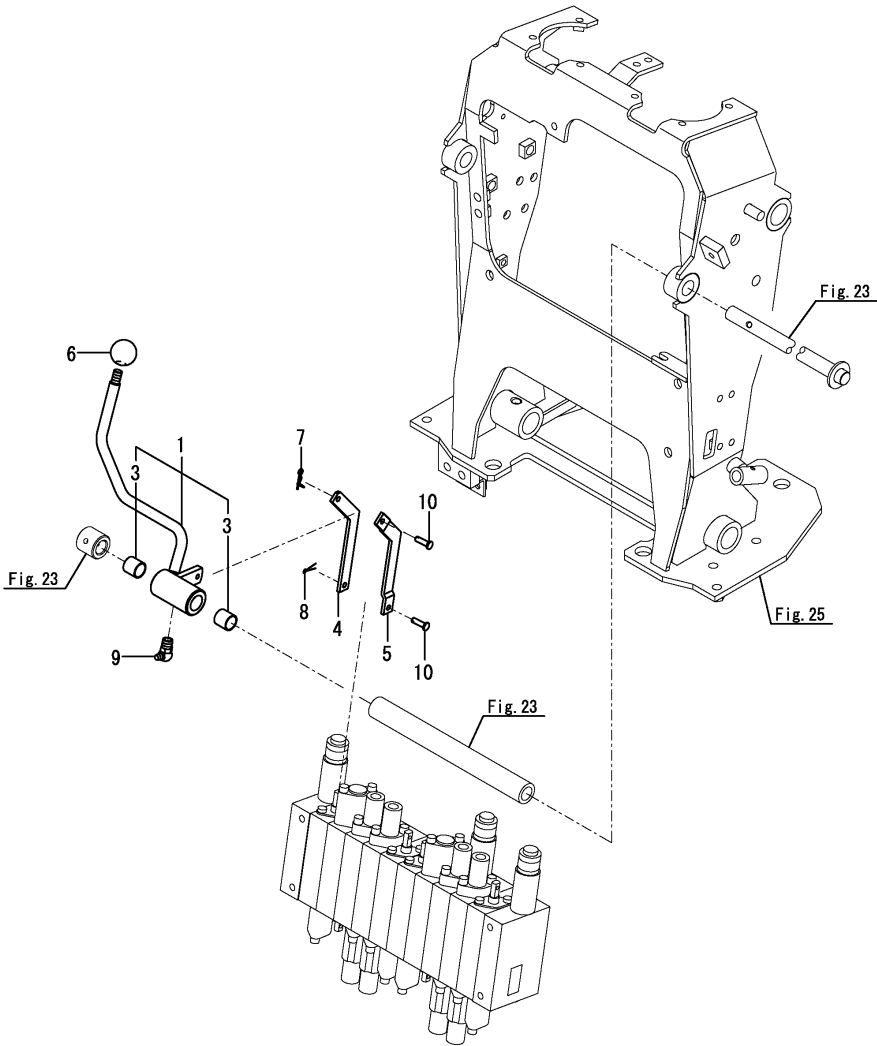
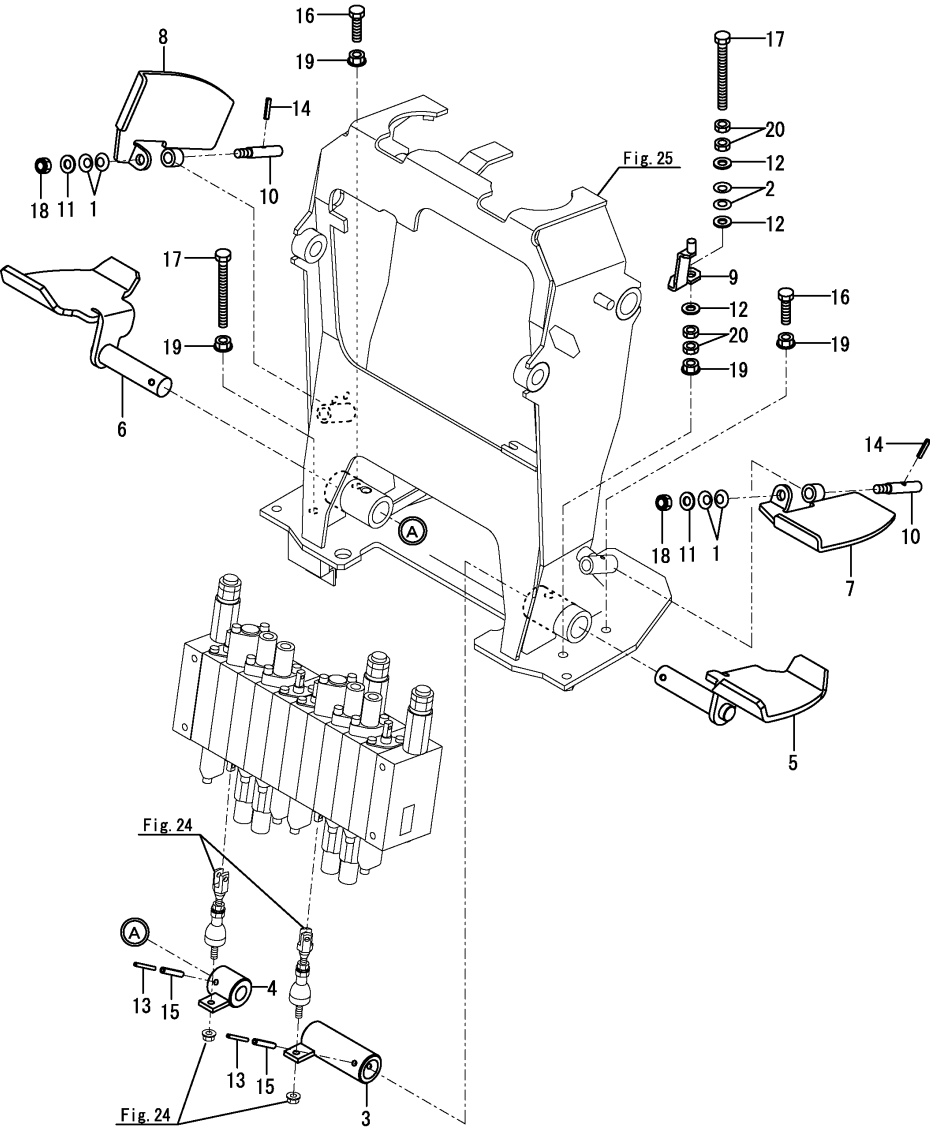


Fig.22. SWING PEDAL & P.T.O. PEDAL



(A)=VIO12-2A P(KR)
(B)=
(C)=

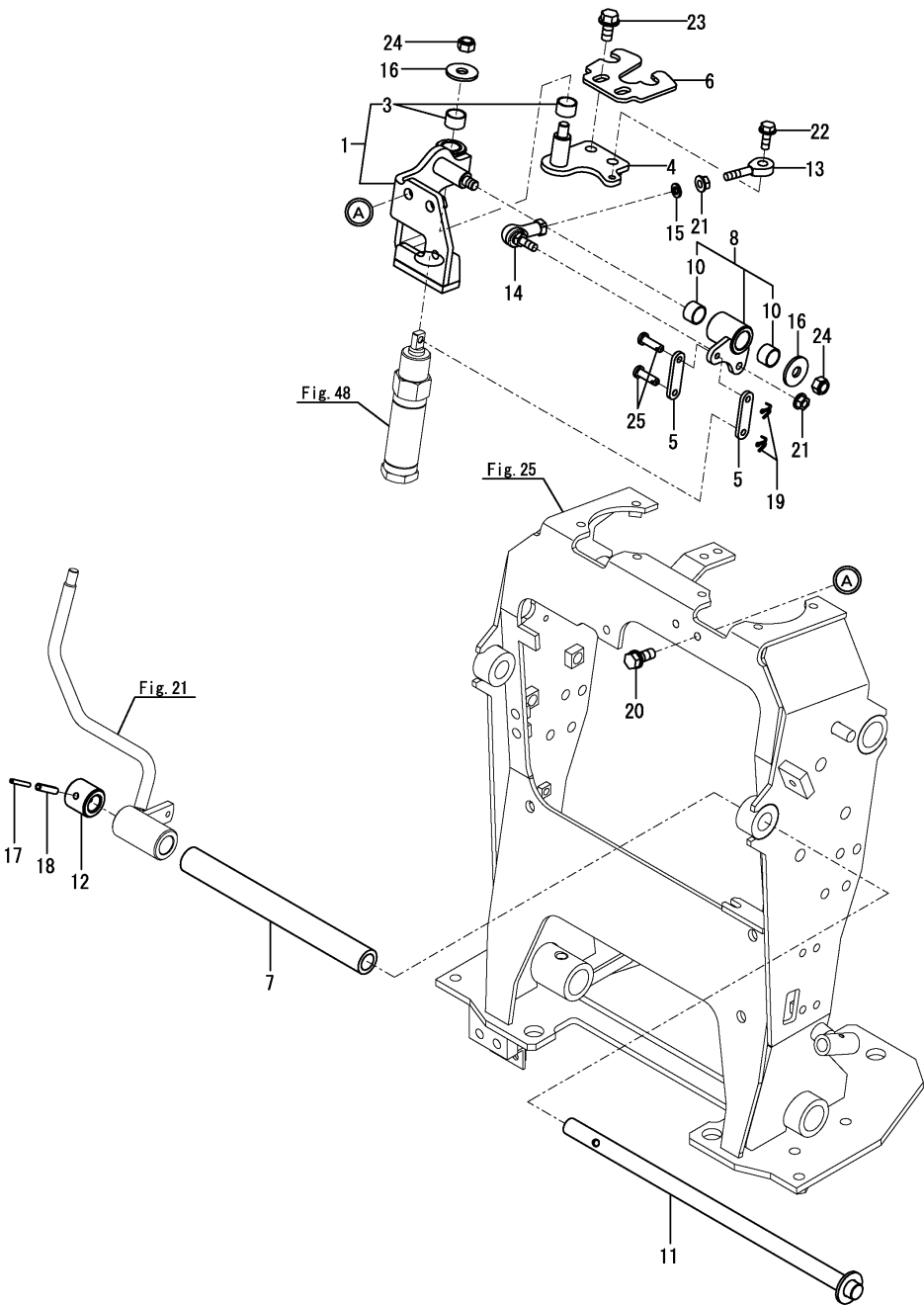
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172068-28490	SPRING, SCREW 8	4							
2	1	172068-28490	SPRING, SCREW 8	2							
3	1	172480-45650-1	LINK ASSY, PEDAL L	1							
4	1	172480-45660-1	LINK ASSY, PEDAL R	1							
5	1	172480-45750-1	PEDAL ASSY, L	1							
6	1	172480-45780-1	PEDAL ASSY, R	1							
7	1	172480-45830-1	COVER ASSY, PEDAL L	1							
8	1	172480-45860-1	COVER ASSY, PEDAL R	1							
9	1	172480-45880	LOCK ASSY, PTO	1							
10	1	172186-45900	SHAFT, PEDAL	2							
11	1	22137-080000	WASHER, 8	2							
12	1	22137-080000	WASHER, 8	3							
13	1	22351-030032	PIN, SPRING 3.0X32	2							
14	1	22351-040020	PIN, SPRING 4.0X20	2							
15	1	22351-050032	PIN, SPRING 5.0X32	2							
16	1	26116-080304	BOLT, M8X 30 PLATED	2							
17	1	26116-080804	BOLT, M8X 80 PLATED	2							
18	1	26346-080002	NUT, M8	2							
19	1	26366-080002	NUT, M8	4							
20	1	26757-080002	NUT, LOCK M8	4							
20-1	1	26756-080002	NUT, LOCK M8	4							R

(A)=*2023.02.)

(A)=VIO12-2A P(KR)
(B)=
(C)=

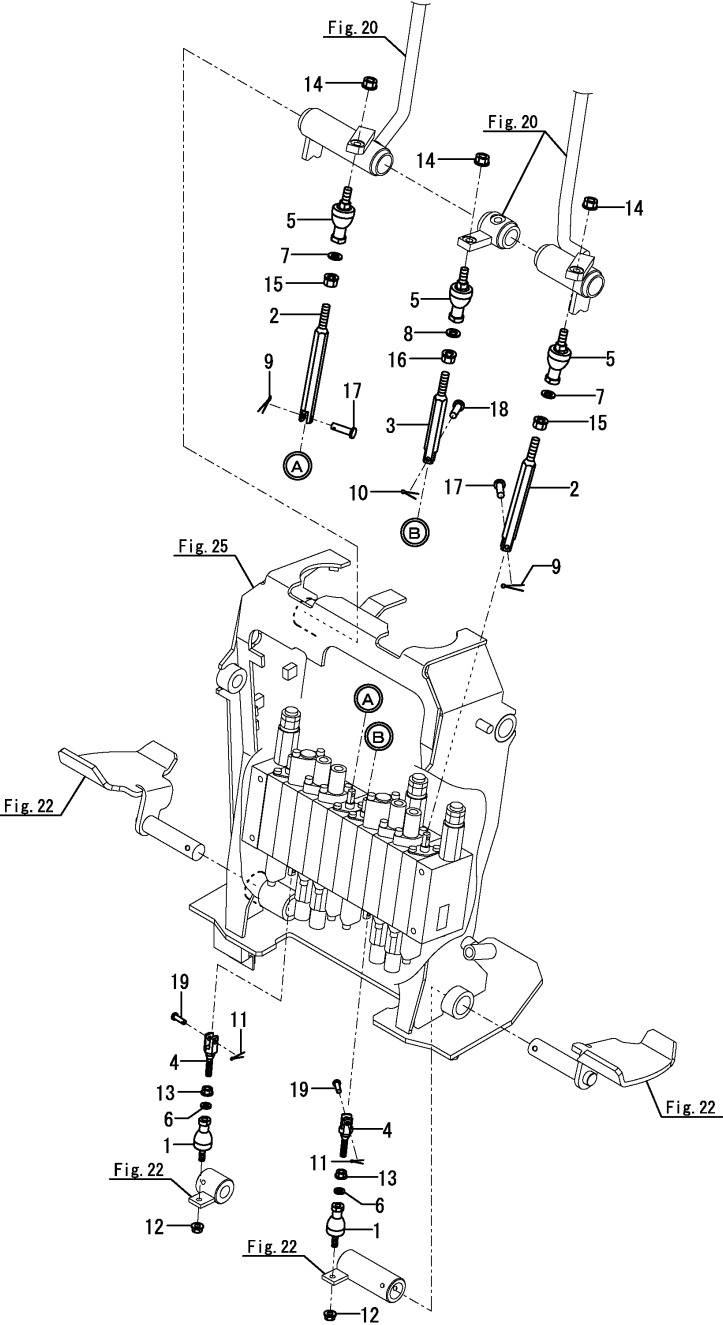
(D)=
(E)=
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172B58-45210	BRACKET ASSY	1							
3	2	24550-014100	BUSH, 14X10	2							
4	1	172B58-45270	ARM ASSY, LOCK	1							
5	1	172B58-45300	LINK, LOCK	2							
6	1	172A54-45311	PLATE , LOCK	1							
7	1	172480-45360-1	PIPE	1							
8	1	172B58-45370	LINK ASSY, B	1							
10	2	24550-014100	BUSH, 14X10	2							
11	1	172B58-45420	SHAFT ASSY, LEVER	1							
12	1	172B58-45440	BOSS, 14X25X23	1							
13	1	172156-45800	END, ROD	1							
14	1	172446-45820	LINK BALL 6	1							
15	1	22117-060000	WASHER, 6	1							
16	1	22157-080000	WASHER, 8	2							
17	1	22351-030025	PIN, SPRING 3.0X25	1							
18	1	22351-050025	PIN, SPRING 5.0X25	1							
19	1	22417-160160	PIN, COTTER 1.6X16	2							
20	1	26013-080202	BOLT, M8X 20	2							
21	1	26051-060002	NUT, M6	2							
22	1	26106-060162	BOLT, M6X 16 PLATED	1							
23	1	26106-080162	BOLT, M8X 16 PLATED	2							
24	1	26347-080002	NUT, M8	2							
25	1	933110-54100	PIN, 4.75X14	2							

(A)=VIO12-2A P(KR)
(B)=
(C)=

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



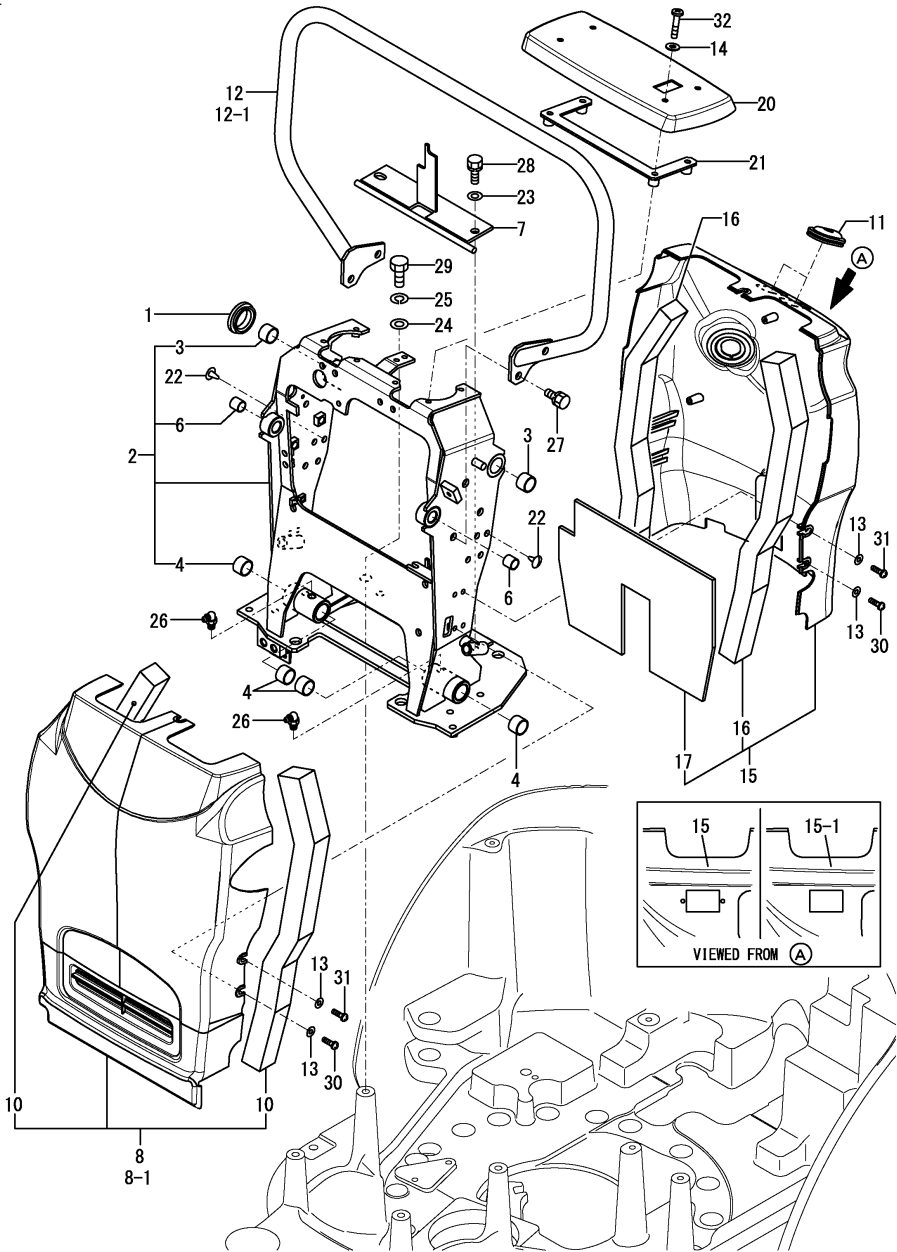
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172157-45630	BALL, LINK 6	2							
2	1	172480-45900	ROD-A	2							
3	1	172480-45910	ROD-B	1							
4	1	172480-45920	ROD-C	2							
5	1	172122-47250	BALL, LINK 8	3							
6	1	22117-060000	WASHER, 6	2							
7	1	22117-080000	WASHER, 8	2							
8	1	22117-080000	WASHER, 8	1							
9	1	22417-160160	PIN, COTTER 1.6X16	2							
10	1	22417-160160	PIN, COTTER 1.6X16	1							
11	1	22417-160160	PIN, COTTER 1.6X16	2							
12	1	26051-060002	NUT, M6	2							
13	1	26051-060002	NUT, M6	2							
14	1	26051-080002	NUT, M8	3							
15	1	26051-080002	NUT, M8	2							
16	1	26051-080002	NUT, M8	1							
17	1	933110-54100	PIN, 4.75X14	2							
18	1	933110-54100	PIN, 4.75X14	1							
19	1	933110-54100	PIN, 4.75X14	2							

Fig.25. LINK STAND

(A)=VIO12-2A P(KR)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	1A6260-27270	GROMMET, 35	1							
2	1	172480-45052-1	SUPPORT ASSY	1							
3	2	172141-41370	BUSH, 20 15	2							
4	2	172141-41370	BUSH, 20 15	4							
6	2	24550-014150	BUSH, 14X15	2							
7	1	172480-45550-1	PLATE ASSY, GUIDE	1							
8	1	172A54-49100	COVER ASSY, STAND F	1							
8-1	1	172A54-49320	COVER ASSY,STAND FPR	1							S
(A=M22344)											
10	2	172480-49120	SEAL, STAND	2							
11	1	172446-49180	GROMMET, LEVER	2							
12	1	172446-49200-Y	BAR, ASSIST	1							
12-1	1	172446-49200-2	ASSIST BAR ASSY	1							S
(A=M22344)											
13	1	172446-49350	WASHER, 6.3X15X1	10							
14	1	172446-49350	WASHER, 6.3X15X1	4							
15	1	172480-49450	COVER ASSY,STAND R D	1							
15-1	1	172480-49451	COVER ASSY,STAND R D	1							S 1
(A=M22733)											
16	2	172480-49120	SEAL, STAND	2							
17	2	172480-49170	HEAT INSULATOR, R	1							
20	1	172B58-63130	COVER, FRONT	1							
21	1	172B58-63150	STAY ASSY,FRONTCOVER	1							
22	1	172444-68650	CLIP, TREE	4							
23	1	22137-100000	WASHER, 10	2							
24	1	22137-120000	WASHER, 12	4							
25	1	22217-120000	WASHER, SPRING 12	4							
26	1	24761-050000	NIPPLE, GREASE C	2							
27	1	26013-100202	BOLT, M10X 20	4							
28	1	26013-100252	BOLT, M10X 25	2							
29	1	26076-120302	BOLT, 10.912X 30	4							
30	1	26589-060162	SCREW, M6	6							
31	1	26589-060202	SCREW, M6X20	4							
32	1	26589-060302	SCREW, M6	4							

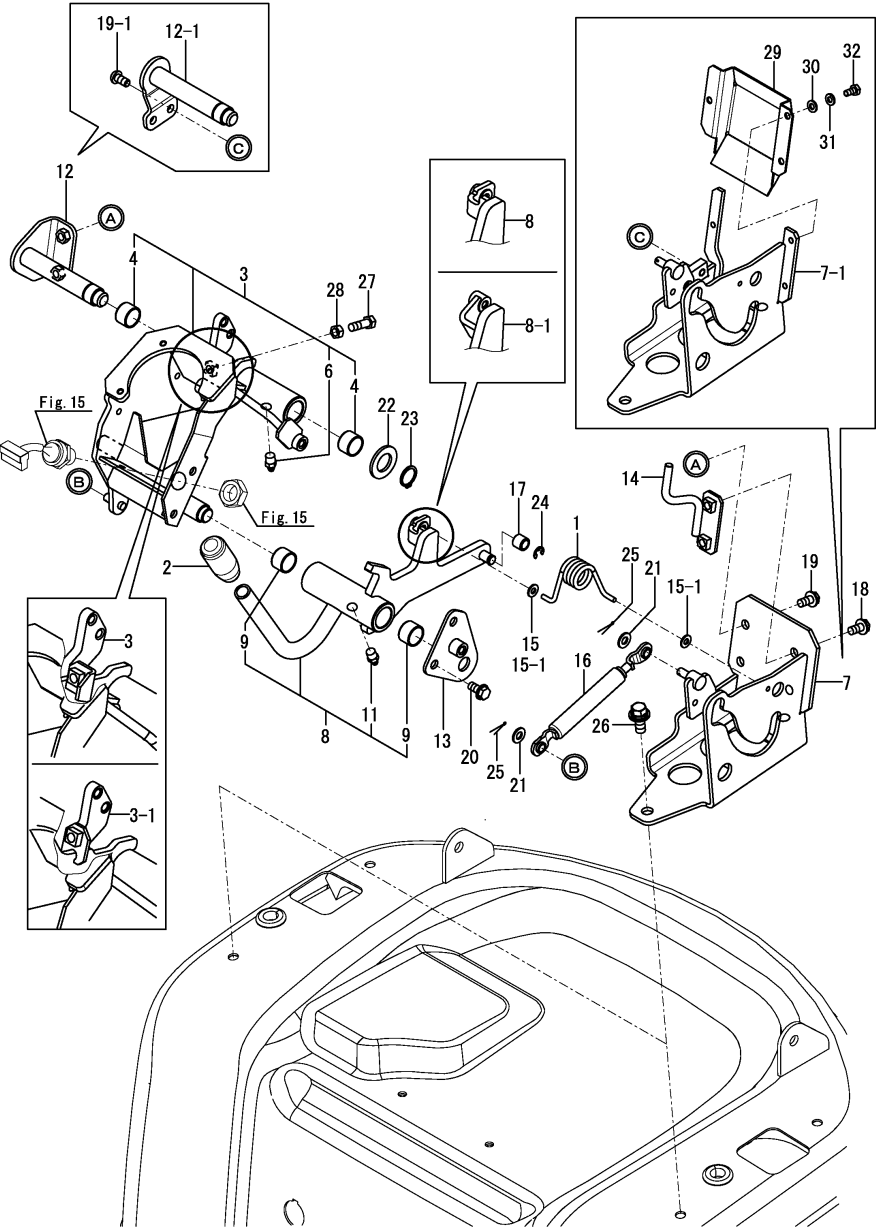


Remarks

(1)Interchangeable by simultaneous replacement with Fig.15 No.3A, 3B & 3D.

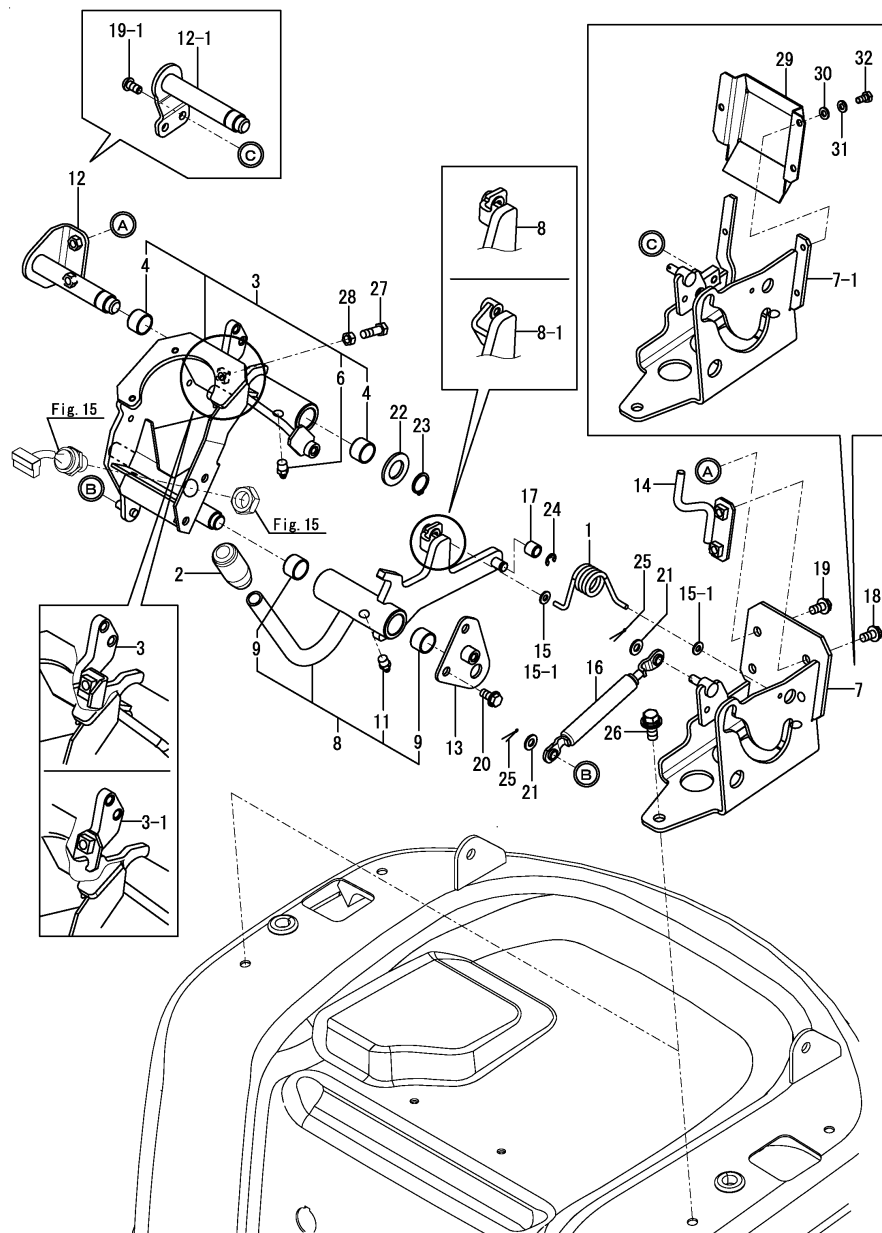
(A)=VIO12-2A P(KR)
(B)=
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172165-45970	SPRING	2							
2	1	172A77-46050	GRIP	2							
3	1	172B58-46100	STAND ASSY, LEVER	2							
3-1	1	172B58-46101 (A=M21641)	STAND ASSY, LEVER	2						S	1
3-2	1	172B58-46102 (A=M22733)	STAND ASSY, LEVER	2						N	
4	2	172141-41370	BUSH, 20 15	4							
6	2	24761-020000	NIPPLE, GREASE PT1/8	2							
7	1	172B58-46200	BASE ASSY, LEVER	2							
7-1	1	172B58-46201 (A=M21641)	BASE ASSY, LEVER	2						S	1
8	1	172B58-46300	LEVER ASSY, LOCK	2							
8-1	1	172B58-46301 (A=M21641)	LEVER ASSY, LOCK	2						S	1
9	2	172141-41370	BUSH, 20 15	4							
11	2	24761-020000	NIPPLE, GREASE PT1/8	2							
12	1	172B58-46500	PLATE ASSY, BASE	2							
12-1	1	172B58-46501 (A=M21641)	PLATE ASSY, BASE	2						S	1
13	1	172B58-46550	PLATE ASSY, LEVER	2							
14	1	172B58-46600 (A=M21641)	GUIDE ASSY, HOSE	2						Z	
15	1	172B58-46650	WASHER, 5.5X20X1.5	2							
15-1	1	172B58-46660 (A=M21711)	WASHER, 5X20X3	4						N	
16	1	172B58-46800	SPRING, GAS	2							
17	1	172165-47550	BUSH	2							
18	1	172519-63240 (A=M21641)	BOLT, M8X16	4						Z	
19	1	172519-63240	BOLT, M8X16	4							
19-1	1	172186-45840 (A=M21641)	BOLT, BUTTON 8X16	4						S	1
20	1	172519-63240	BOLT, M8X16	4							
21	1	22137-080000	WASHER, 8	4							
22	1	22137-200000	WASHER, 20	2							
23	1	22242-000200	RING, 20	2							
24	1	22272-000070	RING, E- 7	2							
25	1	22417-200200	PIN, COTTER 2.0X20	4							
26	1	26014-100252	BOLT, M10X 25	4							
27	1	26116-080254	BOLT, M8X 25 PLATED	2							
28	1	26716-080002	NUT, M8	2							
29	1	172B58-46280 (A=M21641)	COVER, LEVER	2						W	1
29-1	1	172B58-46281 (A=M21703)	COVER, LEVER	2						N	
30	1	22137-060000 (A=M21641)	WASHER, 6	6						W	1
31	1	22217-060000 (A=M21641)	WASHER, SPRING 6	6						W	1
32	1	26116-060122	BOLT, M6X 12 PLATED	6						W	1

Remarks
(1)Interchangeable with a set of No.3-1, 7-1, 8-1, 12-1, 19-1, 29, 30, 31 and 32 on Fig.26 , No.16 and 17 on Fig.73 and No.1-1, 3-1, 4-1, 5-1, 6-1, 7-1, 8-1, 9-1, 10-1, 11-1, 12-1, 13-1, 14-1, 25-1 and 27 on Fig.74.



(1) Interchangeable with a set of No.3-1, 7-1, 8-1, 12-1, 19-1, 29, 30, 31 and 32 on Fig.26 , No.16 and 17 on Fig.73 and No.1-1, 3-1, 4-1, 5-1, 6-1, 7-1, 8-1, 9-1, 10-1, 11-1, 12-1, 13-1, 14-1, 25-1 and 27 on Fig.74.

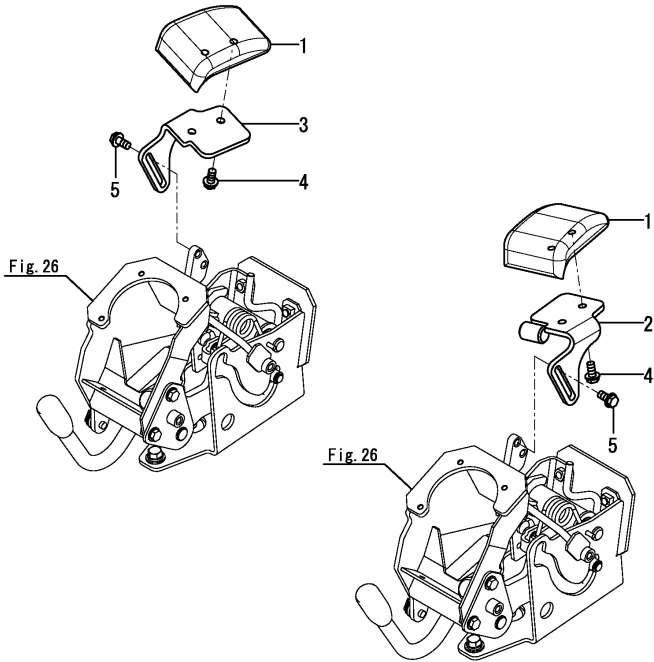
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I R
				(A)	(B)	(C)	(D)	(E)	(F)	
(A=M21641)										

N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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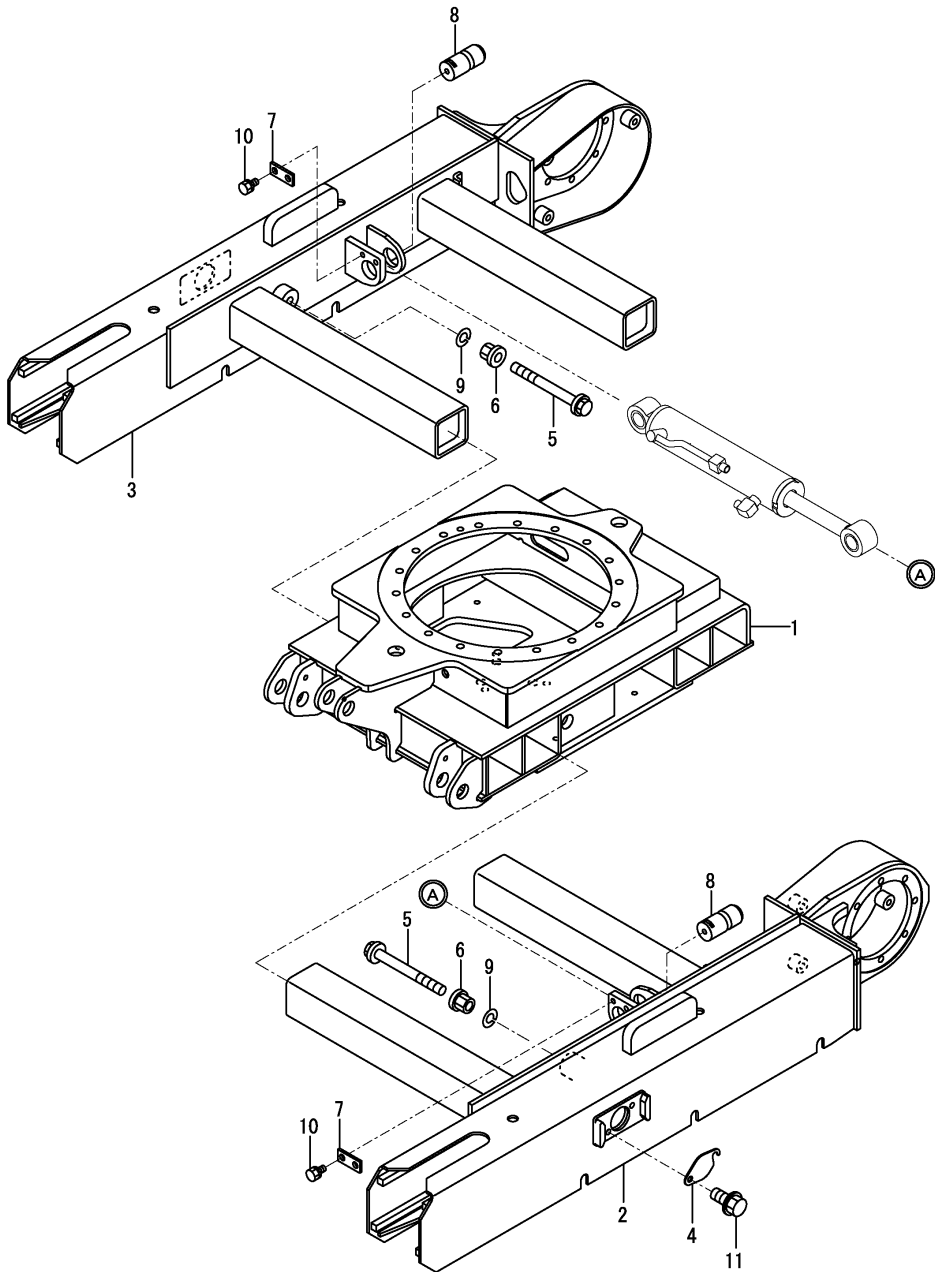
(A)=VIO12-2A P(KR)
(B)=
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172441-44320	ARMREST	2							
2	1	172A46-46500	GUIDE ASSY, L	1							
3	1	172A46-46530	PLATE, GUIDE R	1							
4	1	172519-63240	BOLT, M8X16	4							
4-1	1	172162-68370	BOLT, M8X12	4						N	
(A=M21761)											
5	1	172519-63240	BOLT, M8X16	4							

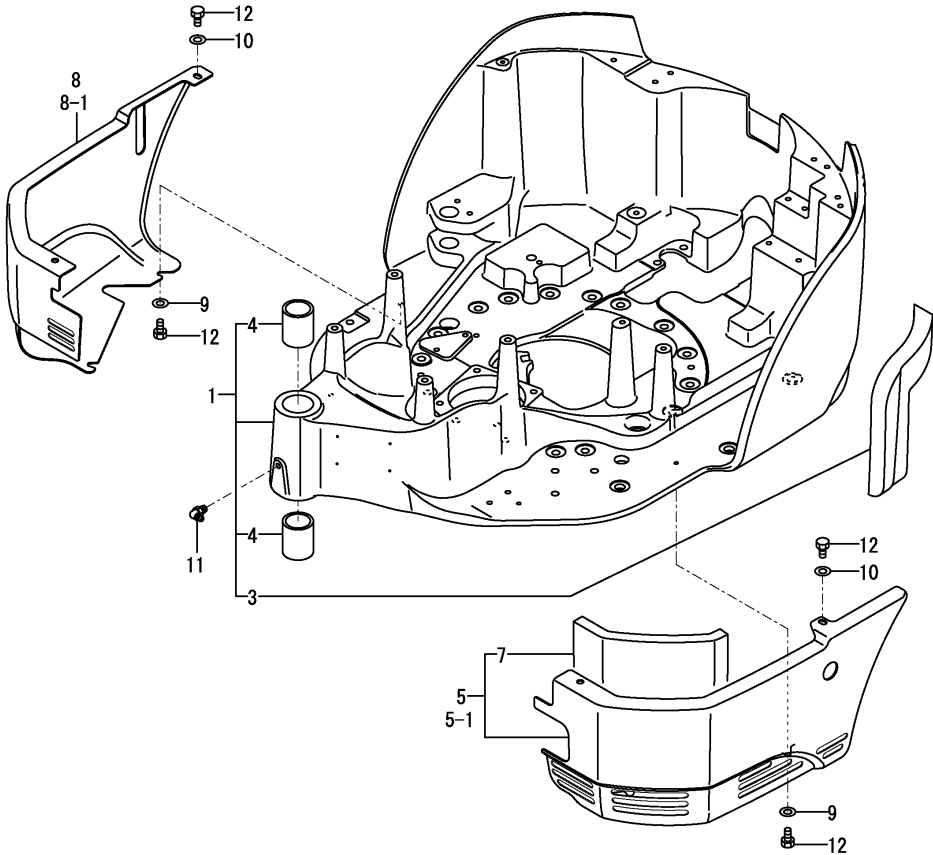
0CK50-M01480 FRAME
Fig.28. TRAVEL FRAME



(A)=VIO12-2A P(KR)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172480-50200-1	FRAME ASSY, LOWER	1							
2	1	172480-50402-1	FRAME, CRAWLER	1							
3	1	172480-50412-1	FRAME, CRAWLER	1							
4	1	172458-50480-2	COVER, FRAME	2							
5	1	172480-50480	BOLT ASSY, STOPPER	2							
6	1	172448-50720	NUT ASSY, STOPPER	2							
7	1	172448-50770-2	PLATE	2							
8	1	172480-50910	PIN 33 X 64	2							
9	1	22217-160000	WASHER, SPRING 16	2							
10	1	26013-100162	BOLT, M10X 16	4							
11	1	26106-100122	BOLT, M10X 12 PLATED	4							

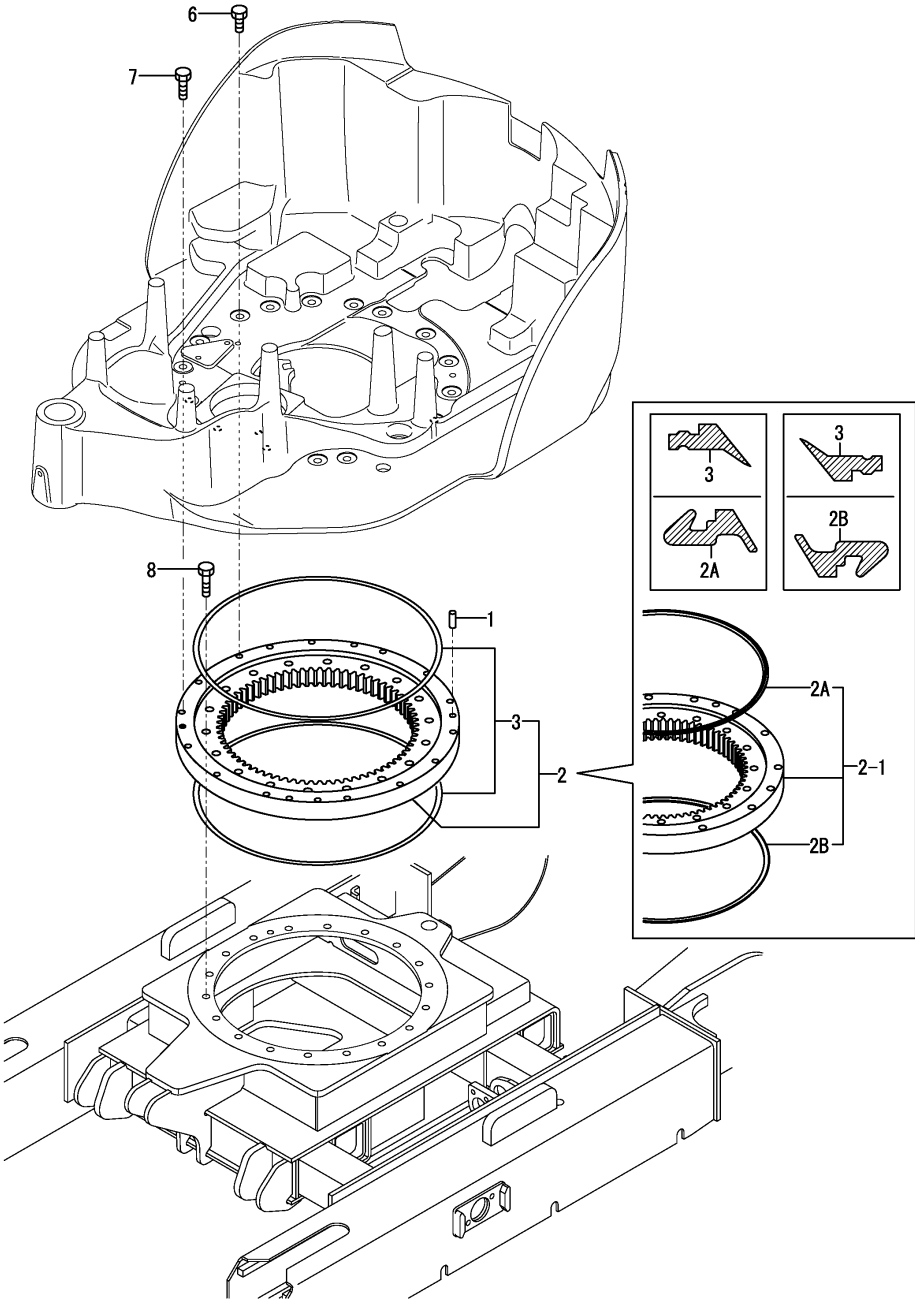


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A54-54101	FRAME ASSY, TURNING	1							
3	2	172480-54130	SEAL, FRAME	1							
4	2	172447-54540	BUSH, PIN 40-60	2							
5	1	172A54-54200-Y	COVER ASSY, FRAME L	1							
5-1	1	172A54-54200-4	COVER L, FRAM ASSY	1							S
(A=M22344)											
7	2	172480-54220	PAD, SIDE COVER A	1							
8	1	172480-54260-Y	COVER, FRAME R	1							
8-1	1	172480-54260-4	COVER R, FRAME	1							S
(A=M22344)											
9	1	1A1380-62160	WASHER, BELT COVER	4							
10	1	22137-080000	WASHER, 8	2							
11	1	24761-050000	NIPPLE, GREASE C	1							
12	1	26116-080162	BOLT, M8X 16 PLATED	6							

Fig.30. TURNING BEARING

(A)=VIO12-2A P(KR)
(B)=
(C)=

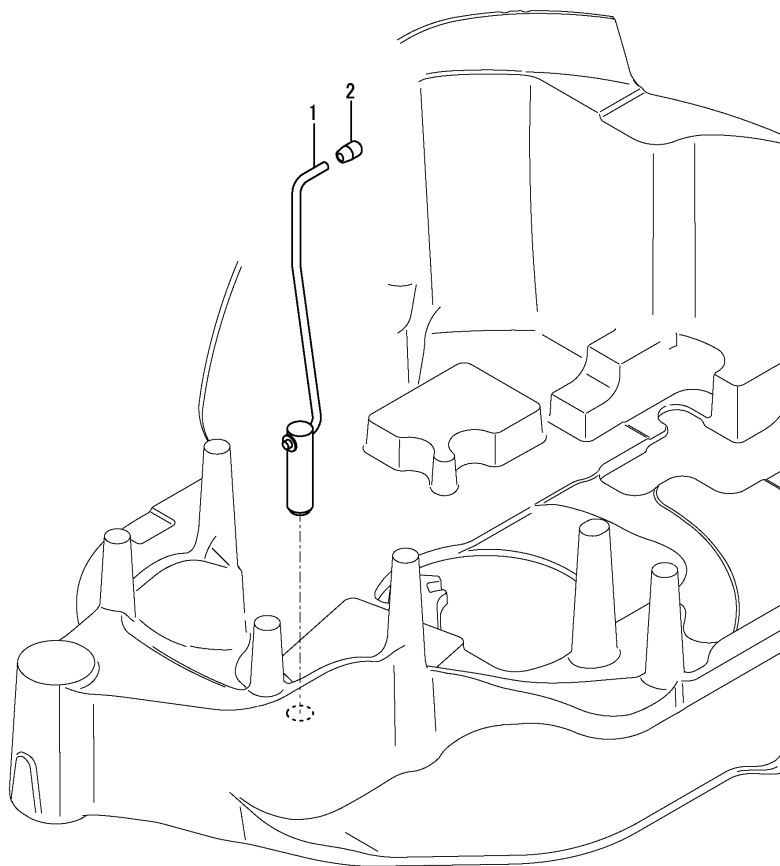
(D)=
(E)=
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194940-24350	PIN, PARALLEL 10X28	3							
2	1	172447-57600	BEARING, TURNING	1							
2-1	1	172447-57601	BEARING, TURNING	1							R
2A	2	172A64-57620	SEAL, A	1							W
2B	2	172A64-57630	SEAL, B	1							W
3	2	172149-57610	SEAL SET	1							Z
6	1	26076-120302	BOLT, 10.912X 30	13							
7	1	26076-120402	BOLT, 10.912X 40	4							
8	1	26076-120452	BOLT, 10.912X 45	18							

(D)=

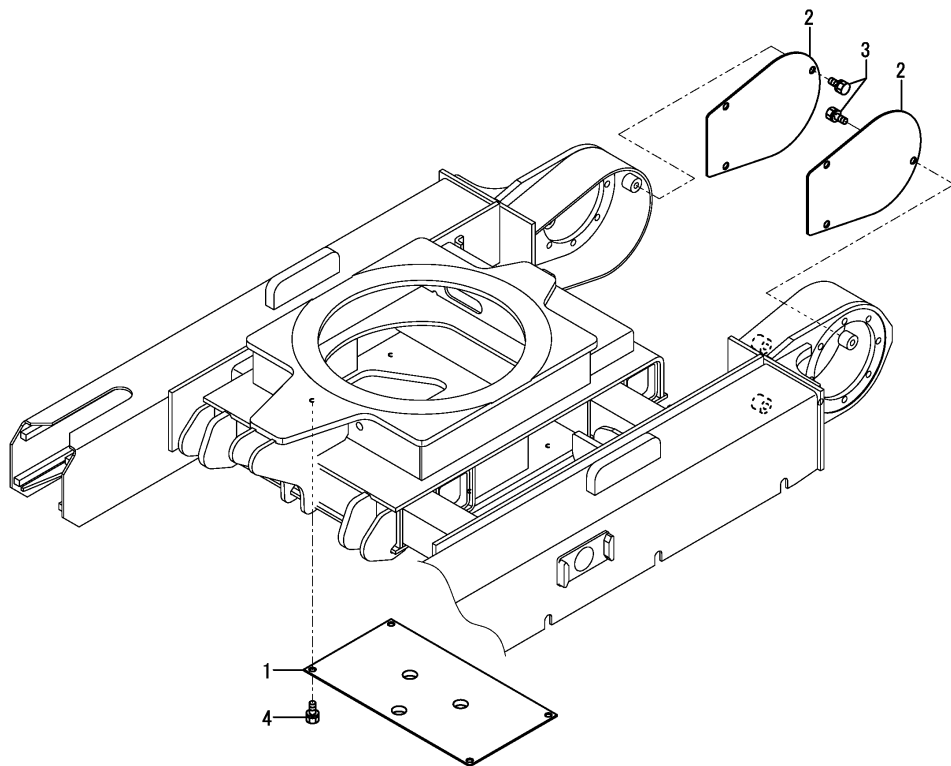
(E)=

$$(F)=$$


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172480-58800	PIN ASSY, LOCK	1							
2	1	172157-58830	KNOB, 6.5X18X35	1							

$$(F)=$$

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172480-61300-1	COVER, UNDER	1							
2	1	172447-61500-2	COVER, MOTOR	2							
3	1	26013-100202	BOLT, M10X 20	6							
4	1	26013-100202	BOLT, M10X 20	4							



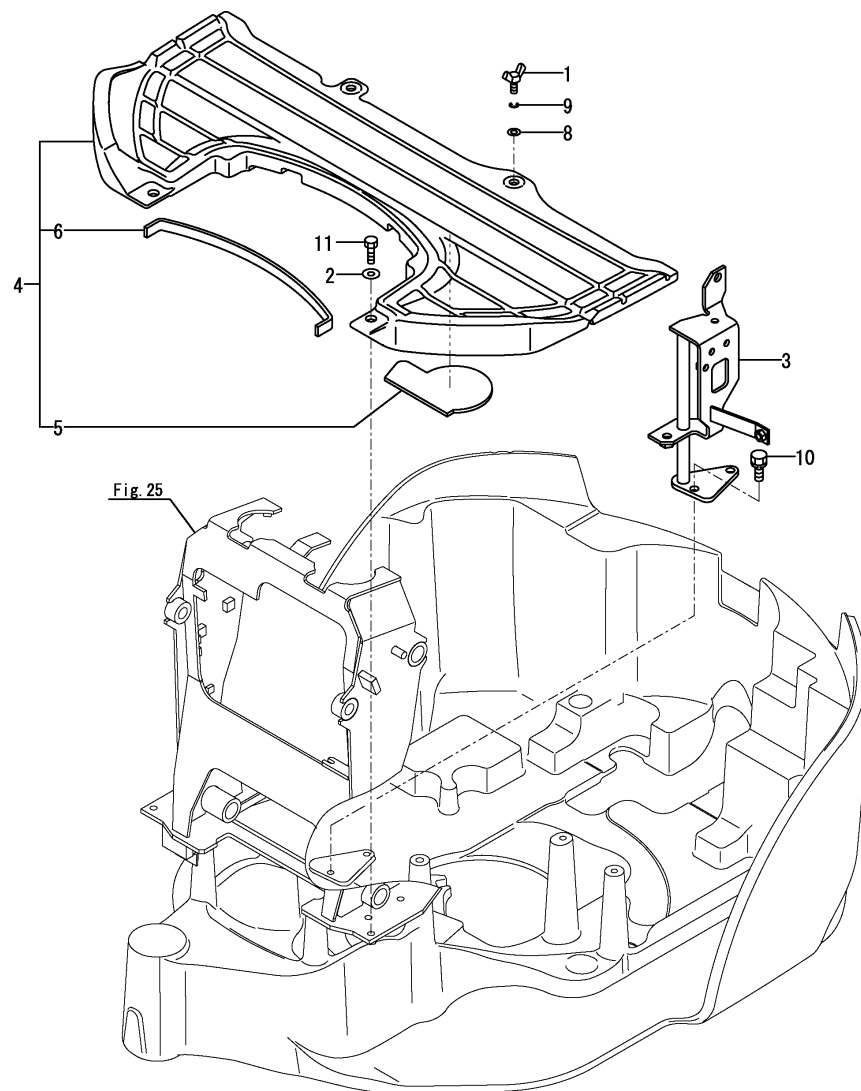
$$(F)=$$


Fig. 25

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172447-62150	WING BOLT, 8X20	2							
2	1	1A1380-62160	WASHER, BELT COVER	2							
3	1	172480-62200	MOUNT ASSY, STEP	1							
4	1	172480-62400	STEP ASSY	1							
5	2	172480-62120	INSULATOR	1							
6	2	172446-62220	SEAL, STEP	1							
8	1	22137-080000	WASHER, 8	2							
9	1	22272-000060	RING, E- 6	2							
10	1	26013-100252	BOLT, M10X 25	2							
11	1	26116-080252	BOLT, M8X 25 PLATED	2							

(A)=VIO12-2A P(KR)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172B58-63110	COVER, LEVER UP	2							
2	1	172B58-63120	COVER, LEVER LOW	2							
3	1	172519-63240	BOLT, M8X16	8							

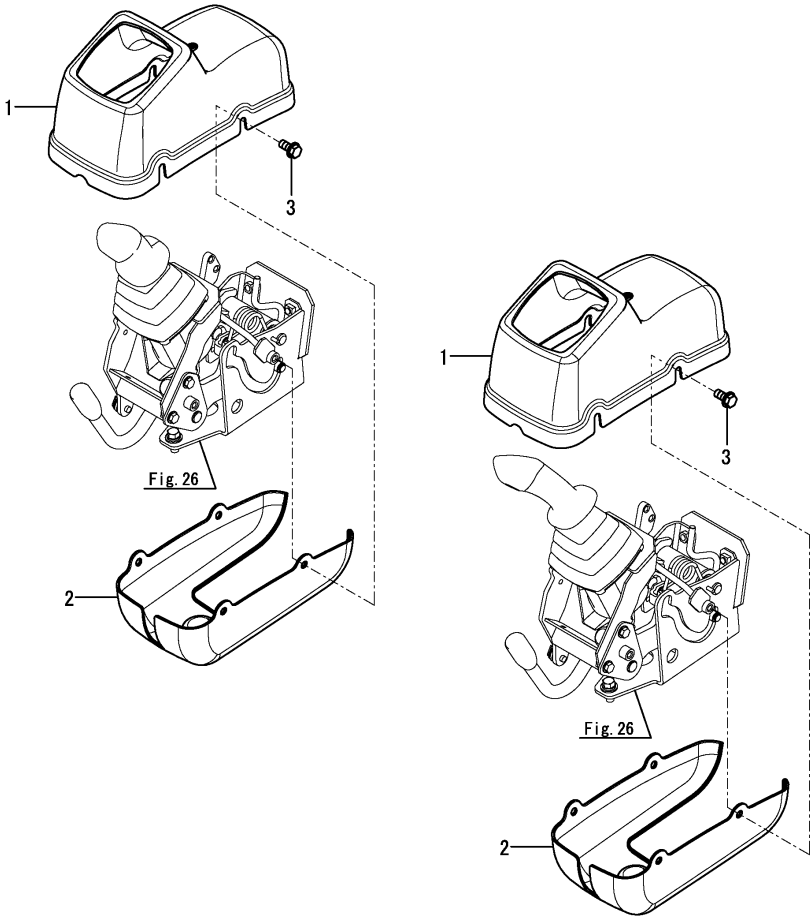
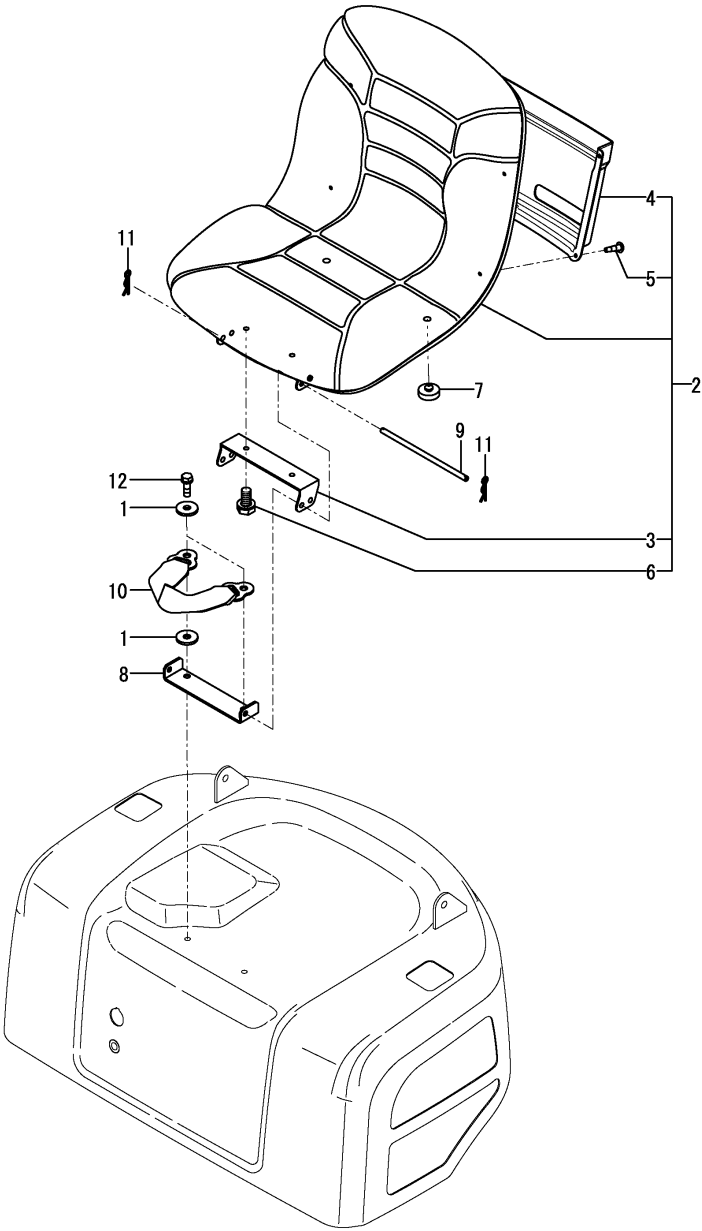


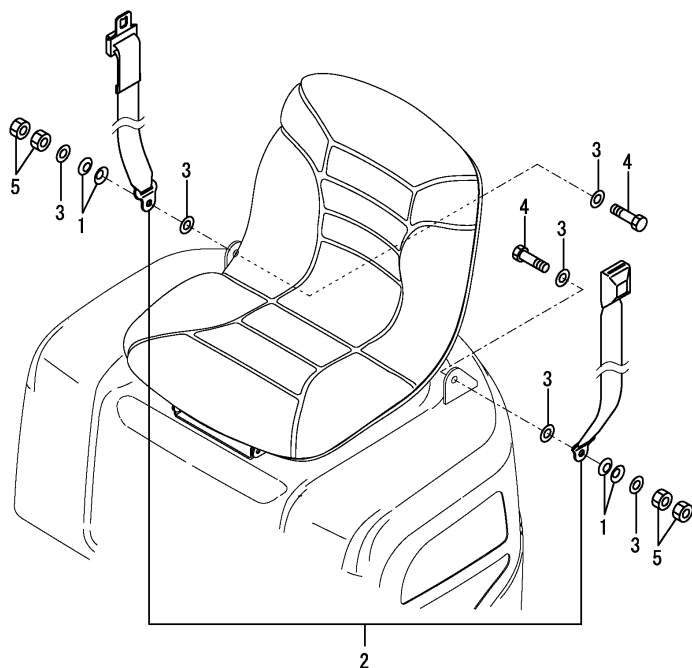
Fig.35. SEAT & SEAT MOUNT



(A)=VIO12-2A P(KR)
(B)=
(C)=
(D)=
(E)=
(F)=

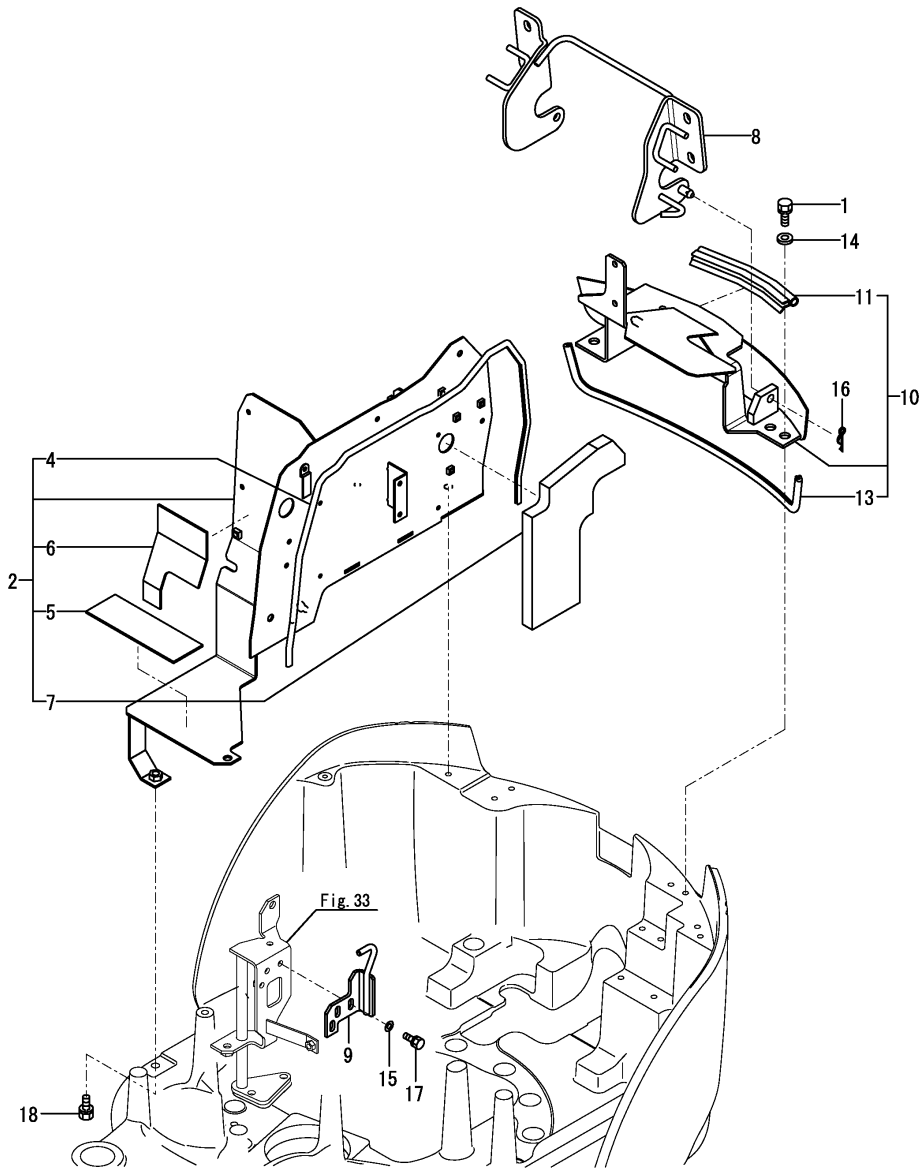
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	1A1040-43900	WASHER, SPRING	4							
2	1	172A54-64011	SEAT ASSY, EP	1							
2-1	1	172A54-64160	SEAT ASSY, 430 3P	1							R
3	2	172A54-64020	STAY, SEAT EP	1							Z
4	2	172A64-64030	CASE, LETTER	1							Z
5	2	172A64-64050	SCREW,TAPPING 6.0X16	4							Z
6	2	26106-080202	BOLT, M8X 20 PLATED	2							Z
7	1	172649-64150	CUSHION, SEAT	2							
8	1	172A54-64200	BRACKET, SEAT EP	1							
9	1	172156-64420	PIN, 8-195	1							
10	1	172B58-64900	BELT ASSY, BONNET	1							
11	1	22372-080000	PIN, SNAP 8	2							
12	1	26013-080252	BOLT, M8X 25	2							

Fig.36. SEAT BELT



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A77-64270	SPRING,10	4							
2	1	172B58-64300	BELT, SEAT	1							
3	1	22137-100000	WASHER, 10	6							
4	1	26116-100352	BOLT, M10X 35 PLATED	2							
5	1	26716-100002	NUT, M10	4							

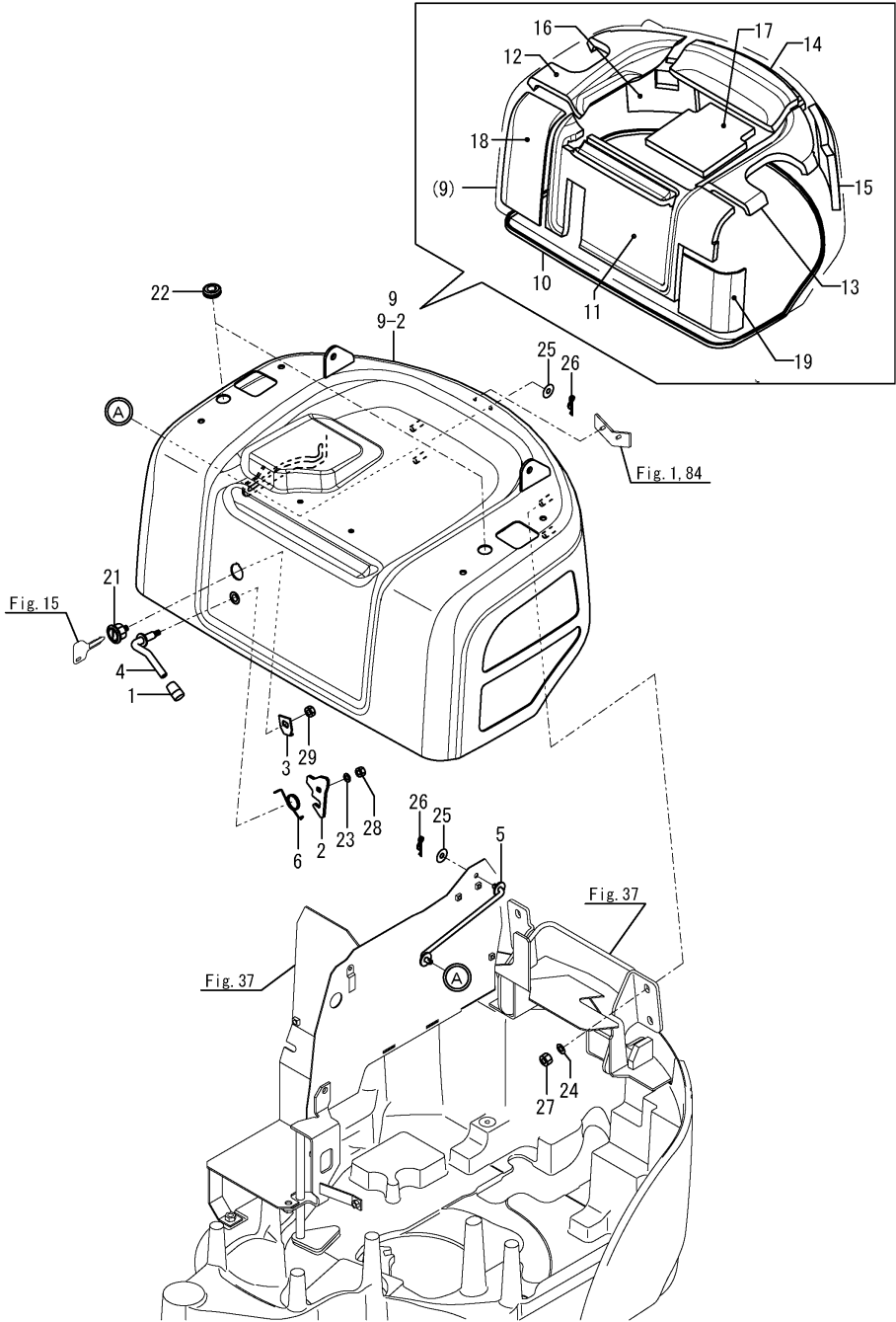
Fig.37. BONNET MOUNT



(A)=VIO12-2A P(KR)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172164-19130	BOLT, 10X25	4							
2	1	172480-62802	PARTITION ASSY	1							
4	2	172480-62900	RUBBER, EDGE 980	1							
5	2	172446-62910	PLATE, RUBBER A	1							
6	2	172480-62910	PLATE, RUBBER A	1							
7	2	172480-62921	SPONGE, PARTITION	1							
8	1	172B58-65300	ARM ASSY, BONNET	1							
9	1	172480-65350	HOOK ASSY	1							
10	1	172A54-65401	MOUNT ASSY, BONNET	1							
11	2	172162-15320	SEAL	1							
13	2	172146-68440	RUBBER, SEAL	1							
14	1	172446-65470	WASHER, 10.5-22	4							
15	1	22137-080000	WASHER, 8	3							
16	1	22372-120000	PIN, SNAP 12	2							
17	1	26013-080202	BOLT, M8X 20	3							
18	1	26013-100202	BOLT, M10X 20	4							

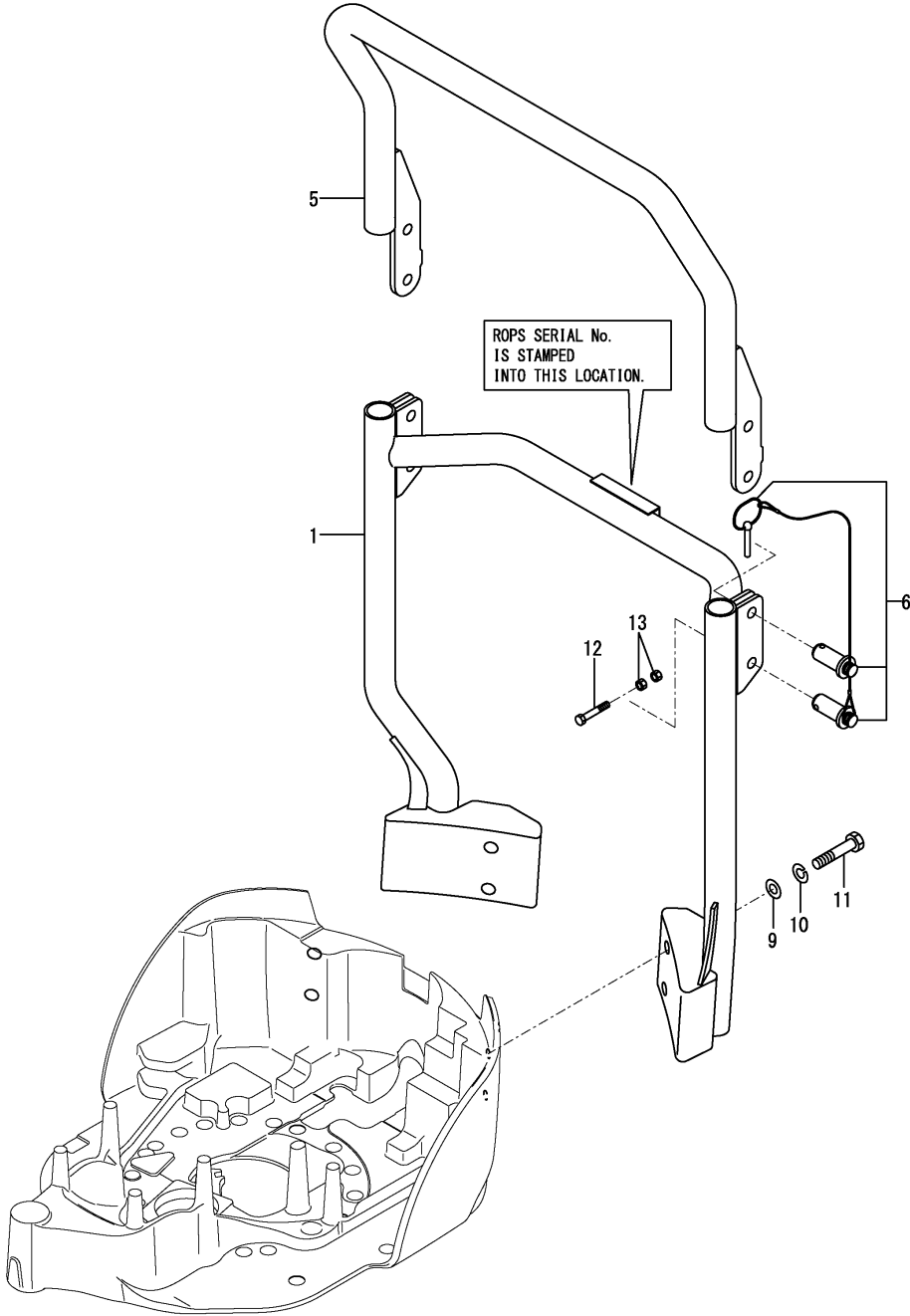


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172116-46630	KNOB, LOCK LEVER	1							
2	1	172446-65372	PLATE, LEVER LOCK	1							
3	1	172446-65380	PLATE, KEY LOCK	1							
4	1	172480-65450	LEVER ASSY	1							
5	1	172480-65470	LINK ASSY,OPEN/CLOSE	1							
6	1	172156-65690	SPRING, STOPPER	1							
9	1	172B58-65700	BONNET ASSY,SL	1							
9-1	1	172B58-65701	BONNET ASSY,SL	1							N
(A=M20992)											
9-2	1	172B58-65701-1	BONNET ASSY,SL	1							S
(A=M22344)											
10	2	172480-65210	TRIM, 2500	1							
11	2	172480-65220	PAD, BONNET A	1							
12	2	172B58-65230	SPONGE, BONNET B SL	1							
13	2	172A54-65240	SPONGE, BONNET C SL	1							
13-1	2	172A54-65241	SPONGE, BONNET C SL	1							N
(A=M20992)											
14	2	172480-65250	PAD, BONNET D	1							
15	2	172480-65260	PAD, BONNET E	1							
16	2	172B58-65260	SPONGE, BONNET G	1							
17	2	172480-65271	PAD, BONNET F	1							
18	2	172480-65280	HEAT INSULATOR, A	1							
19	2	172480-65290	HEAT INSULATOR, B	1							
21	1	172164-66170	KEY ASSY, CYLINDER	1							
22	1	1A7410-87900	GROMMET, 16	2							
23	1	22137-080000	WASHER, 8	1							
24	1	22137-100000	WASHER, 10	4							
25	1	22157-080000	WASHER, 8	2							
26	1	22372-080000	PIN, SNAP 8	2							
27	1	26051-100002	NUT, M10	4							
28	1	26347-080002	NUT, M8	1							
29	1	26347-100002	NUT, M10	1							

(A)=VIO12-2A P(KR)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172480-68500-1	MOUNT, ROPS	1							
5	1	172480-68660-1	POLE, ROPS ROOF	1							
6	1	172480-68742	PIN ASSY, ROPS	2							
9	1	22137-200000	WASHER, 20	4							
10	1	22217-200000	WASHER, SPRING 20	4							
11	1	26076-201002	BOLT, 10.920X100	4							
12	1	26116-060352	BOLT, M6X 35 PLATED	2							
13	1	26716-060002	NUT, M6	4							



(A)=VIO12-2A P(KR)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172480-71100	MOUNT ASSY, PUMP	1							
2	1	22312-080200	PIN, PARALLEL M8X20	2							
3	1	26013-100202	BOLT, M10X 20	6							
4	1	172A54-71210	JOINT ASSY,PUMP	1							

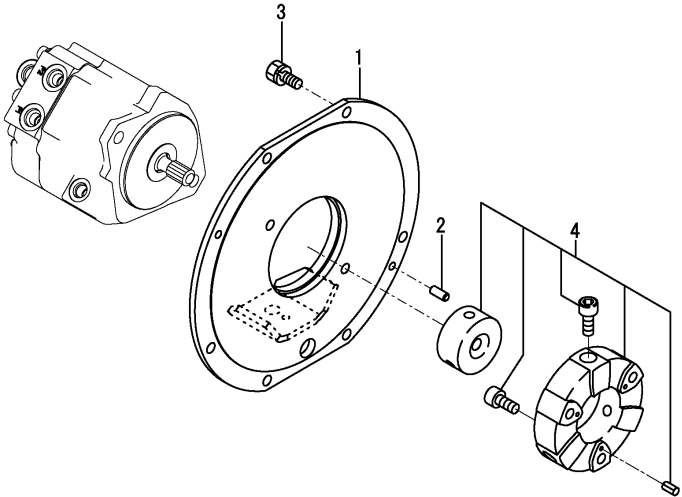
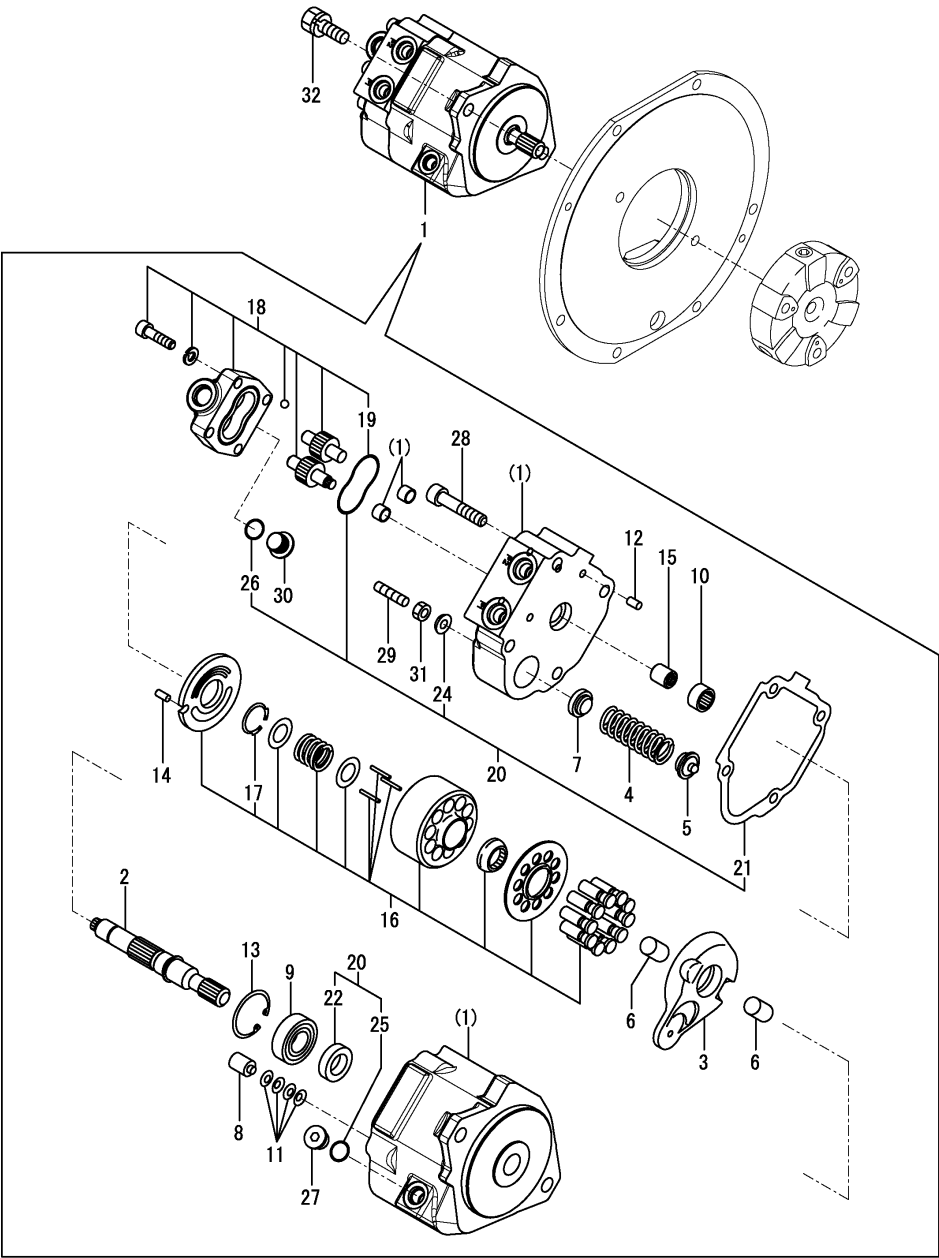


Fig.41. HYDRAULIC PUMP

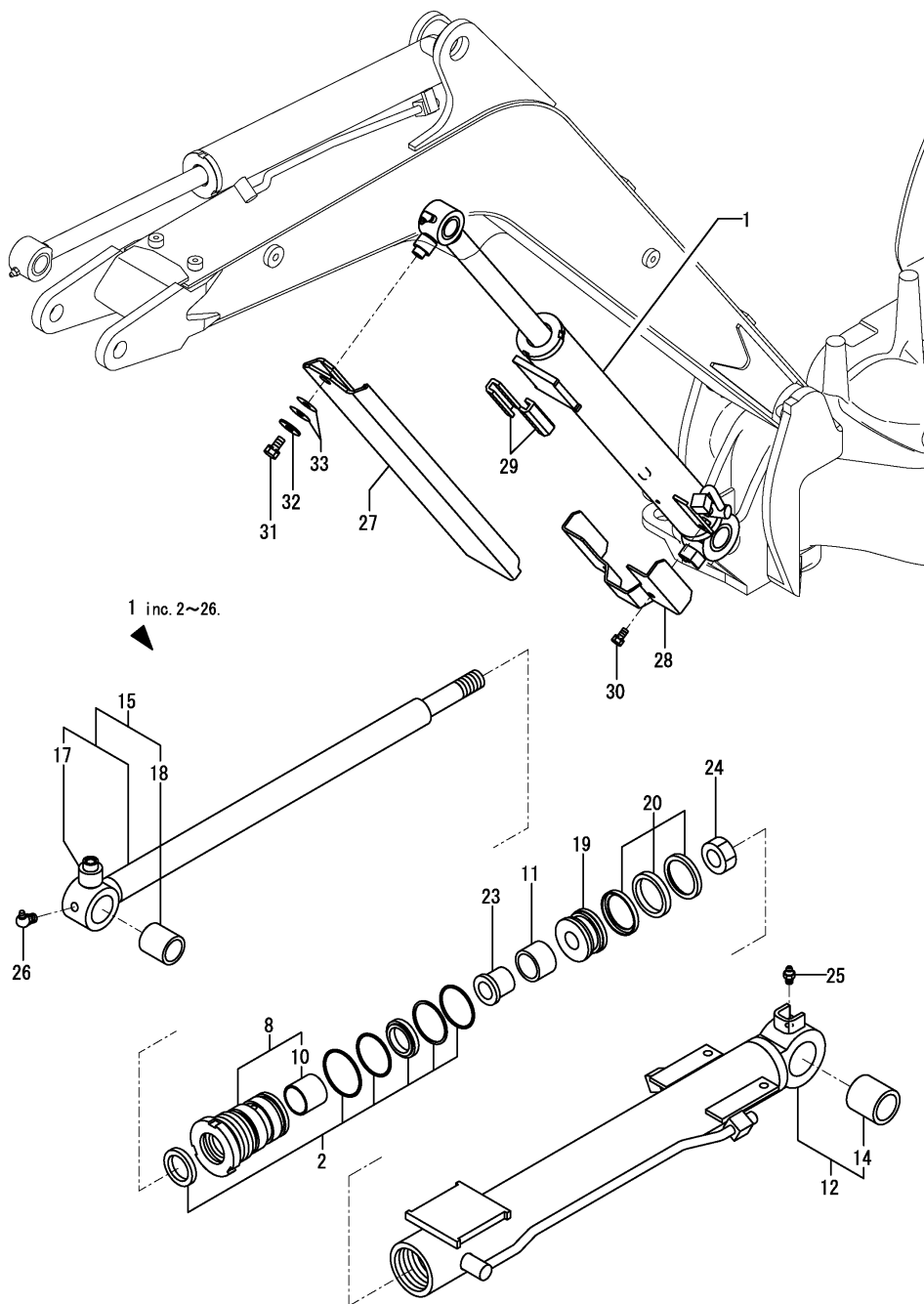
(A)=VIO12-2A P(KR)
(B)=
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A54-73100	PUMP ASSY, PVD	1							
2	2	172A54-73110	SHAFT	1							
3	2	172A54-73120	PLATE,SWASH	1							
4	2	172A54-73140	SPRING,T1	1							
5	2	172A54-73150	HOLDER,SPRING	1							
6	2	172422-73160	PIN	2							
7	2	172A54-73160	GUIDE,SPRING	1							
8	2	172A54-73170	PIN,STOPPER A	1							
9	2	172A54-73180	BALL,BEARING	1							
10	2	172A54-73190	NEEDLE,BEARING	1							
11	2	172A54-73210	SPRING,DISH	4							
12	2	172422-73220	PIN	2							
13	2	172A54-73220	RING,SNAP 42	1							
14	2	172A54-73240	PIN,SPRING 5-12	1							
15	2	172A54-73250	JOINT	1							
16	2	172A54-73270	BARREL KIT,CYL PVD	1							
17	3	172A54-73230	RING,SNAP 28	1							
18	2	172A54-73280	PUMP KIT,GEAR PVD	1							
19	3	172A54-73260	O-RING, 50-V	1							
20	2	172A54-73290	SEAL KIT,PVD	1							
21	3	172A54-73130	PACKING	1							
22	3	172A54-73200	SEAL, OIL	1							
24	3	172422-73570	WASHER, SEAL	1							
25	3	24315-000110	O-RING, 1BP11.0	1							
26	3	24315-000140	O-RING, 1BP14.0	1							
27	2	172422-73530	PLUG	1							
28	2	172422-73540	BOLT	4							
29	2	172422-73560	SCREW	1							
30	2	172458-73640	PLUG	1							
31	2	26711-080002	NUT, M8	1							
32	1	26013-120302	BOLT, M12X 30	2							

Fig.42. BOOM CYLINDER

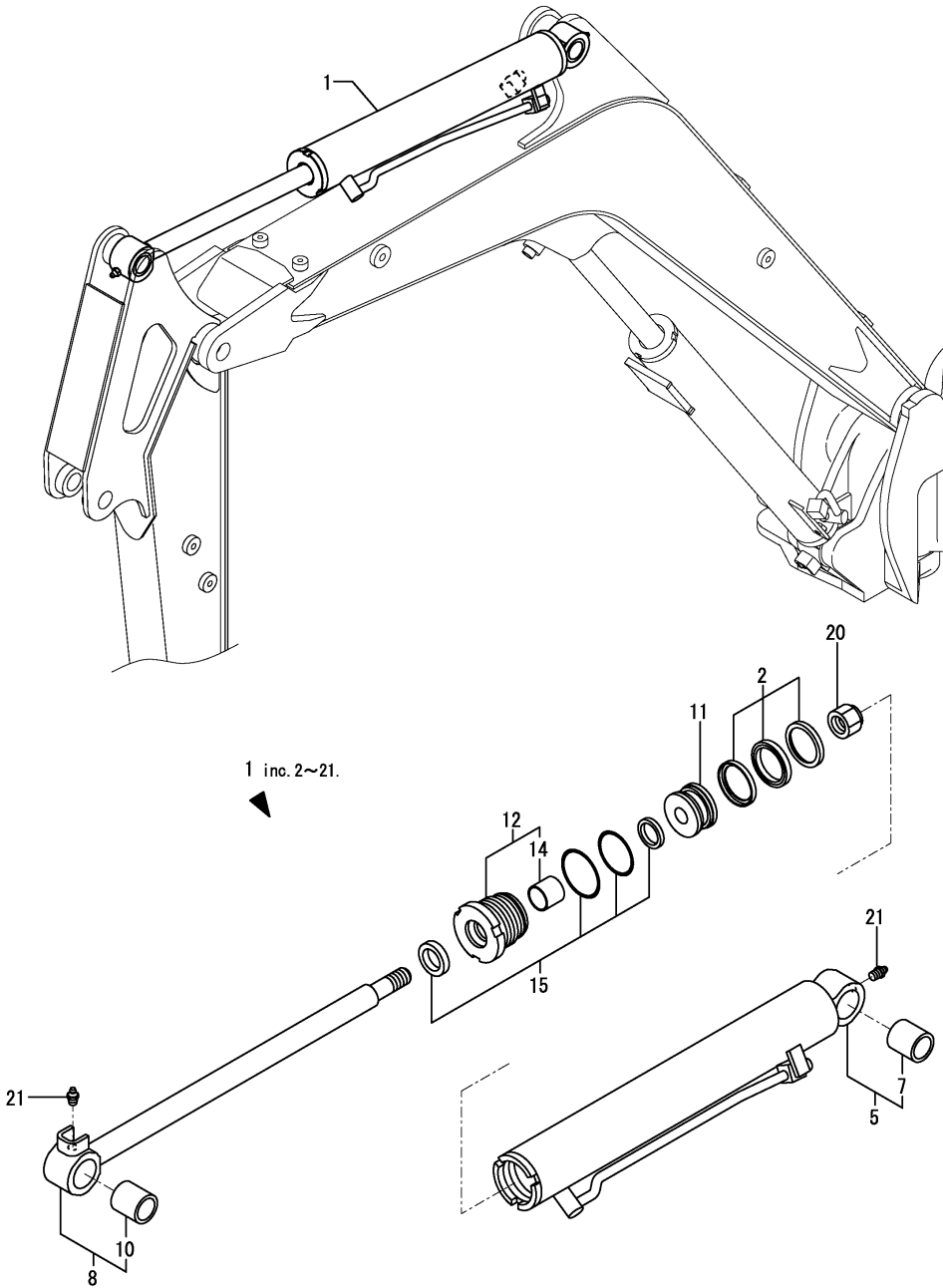


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172480-72100-N	CYLINDER ASSY, BOOM	1							
2	2	172447-72010	SEAL SET, HEAD 50X30	1							
8	2	172447-72110	HEAD ASSY, 50 30	1							
10	3	24550-030300	BUSH, 30X30	1							
11	2	172480-72160	RING, CUSHION 36 A	1							
12	2	172480-72170-N	TUBE ASSY, BOOM	1							
14	3	933125-05400	BUSH, PIN 30 40 A	1							
15	2	172480-72180	ROD ASSY, BOOM	1							
17	4	172169-72340	SEAT, SCREW M10X29.3	1							
18	3	172156-72770	BUSH, PIN 25 35 B	1							
19	2	172447-72311	PISTON, 50 20X28	1							
19-1	2	172447-72312	PISTON, 50X20X28	1							N
(A=M21326)											
20	2	172447-72321	GASKET ASSY, RGU50	1							
20-1	2	172A54-72320	PACKING, BRL50 ASSY	1							N
(A=M21326)											
23	2	172447-72370	COLLAR, 36	1							
24	2	172141-72580	U-NUT, M20	1							
25	2	24761-020000	NIPPLE, GREASE PT1/8	1							
26	2	24761-040000	NIPPLE, GREASE B	1							
27	1	172480-72150-N	COVER, SLIDE	1							
28	1	172447-72360-N	COVER, CYLINDER HOSE	1							
29	1	172186-72480	GUIDE, SLIDE	2							
30	1	26013-080162	BOLT, M8X 16	2							
31	1	26013-100202	BOLT, M10X 20	1							
32	1	933147-03400	WASHER, BRAKE ARM	1							
33	1	933168-14170	SPRING, 16	2							

Fig.43. ARM CYLINDER

(A)=VIO12-2A P(KR)
(B)=
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172447-72401-N	CYLINDER ASSY, ARM	1							
2	2	172447-72321	GASKET ASSY, RGU50	1							
2-1	2	172A54-72320	PACKING, BRL50 ASSY	1							N
(A=M21326)											
5	2	172447-72420-N	TUBE ASSY, ARM	1							
7	3	172156-72770	BUSH, PIN 25 35 B	1							
8	2	172447-72491	ROD ASSY, ARM	1							
10	3	172156-72770	BUSH, PIN 25 35 B	1							
11	2	172447-72531	PISTON, 50 18X28	1							
11-1	2	172447-72532	PISTON,50X18X28	1							N
(A=M21326)											
12	2	172157-72620	HEAD ASSY, 50 25 B	1							
14	3	24550-025250	BUSH, 25X25	1							
15	2	172157-72020	SEAL SET, HEAD 50B	1							
20	2	172186-72950	U-NUT, M18	1							
21	2	24761-020000	NIPPLE, GREASE PT1/8	2							

Fig.44. BUCKET CYLINDER

(A)=VIO12-2A P(KR)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172480-72200-N	CYLINDER ASSY,BUCKET	1							
2	2	172157-72020	SEAL SET, HEAD 50B	1							
7	2	172480-72250-N	TUBE ASSY, BUCKET	1							
9	3	172156-72770	BUSH, PIN 25 35 B	1							
10	2	172447-72321	GASKET ASSY, RGU50	1							
10-1	2	172A54-72320	PACKING, BRL50 ASSY	1							N
(A=M21326)											
13	2	172447-72531	PISTON, 50 18X28	1							
13-1	2	172447-72532	PISTON,50X18X28	1							N
(A=M21326)											
14	2	172157-72620	HEAD ASSY, 50 25 B	1							
16	3	24550-025250	BUSH, 25X25	1							
17	2	172446-72640	ROD ASSY, BUCKET	1							
18	3	172156-72410	BUSH, PIN 25 35 A	1							
20	2	172157-72730	U-NUT, M18	1							
21	2	24761-050000	NIPPLE, GREASE C	1							

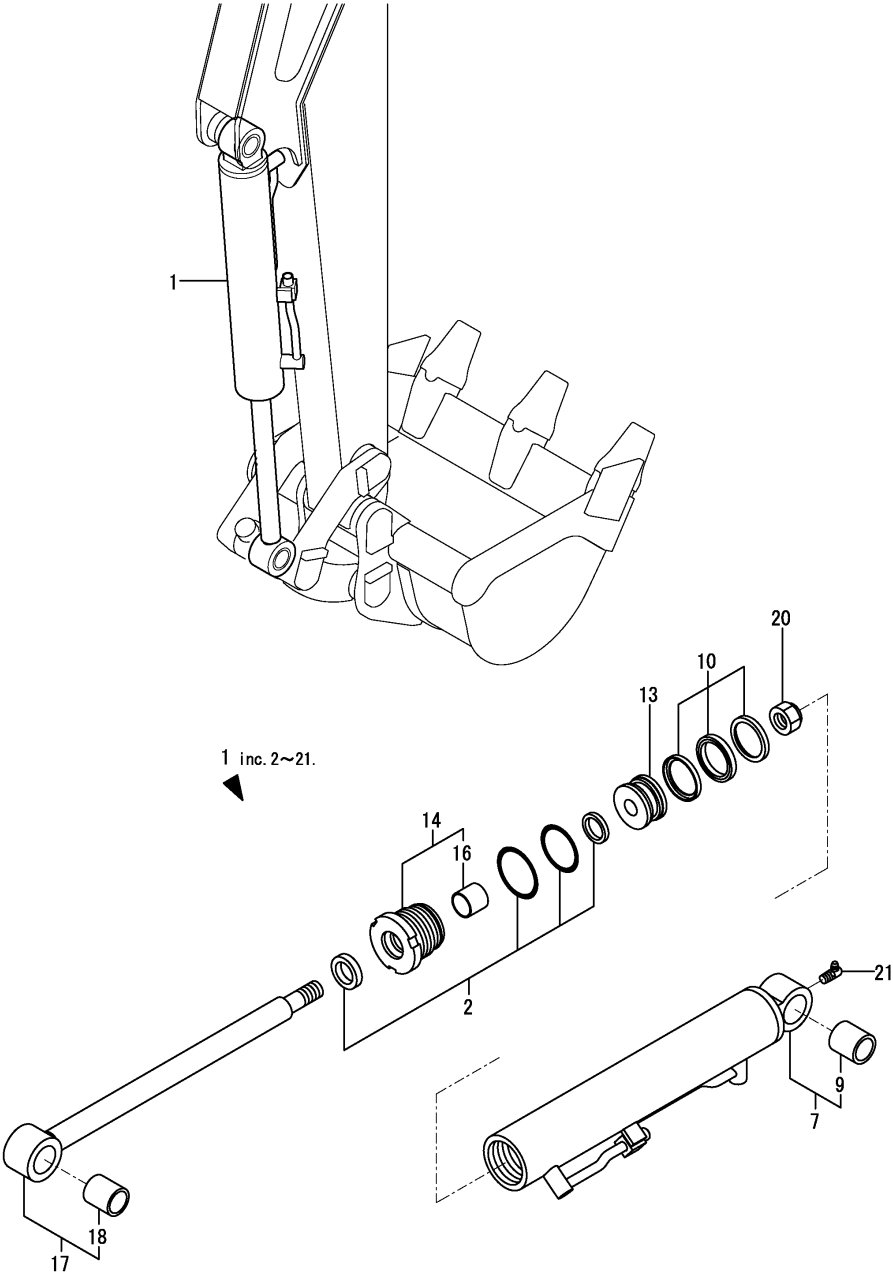
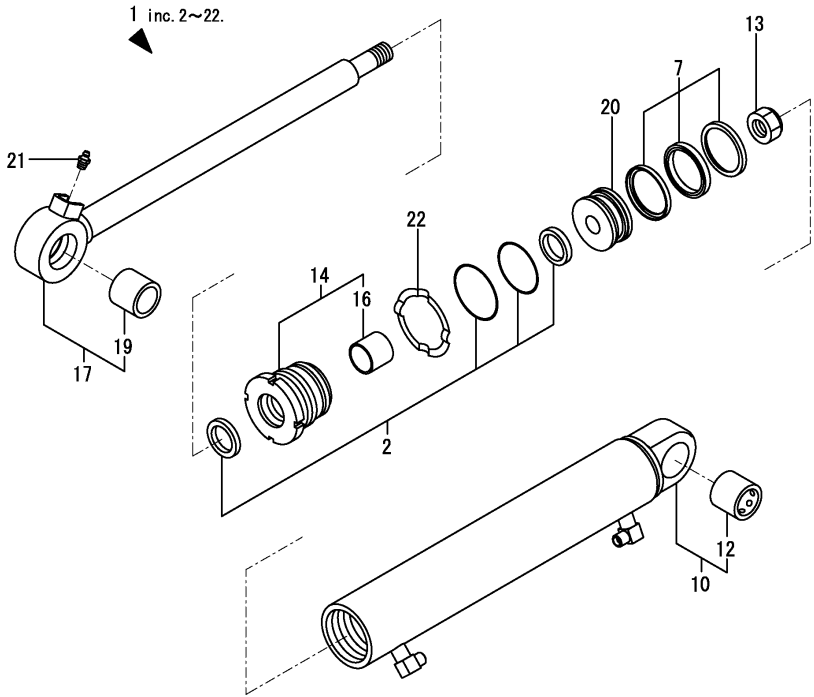
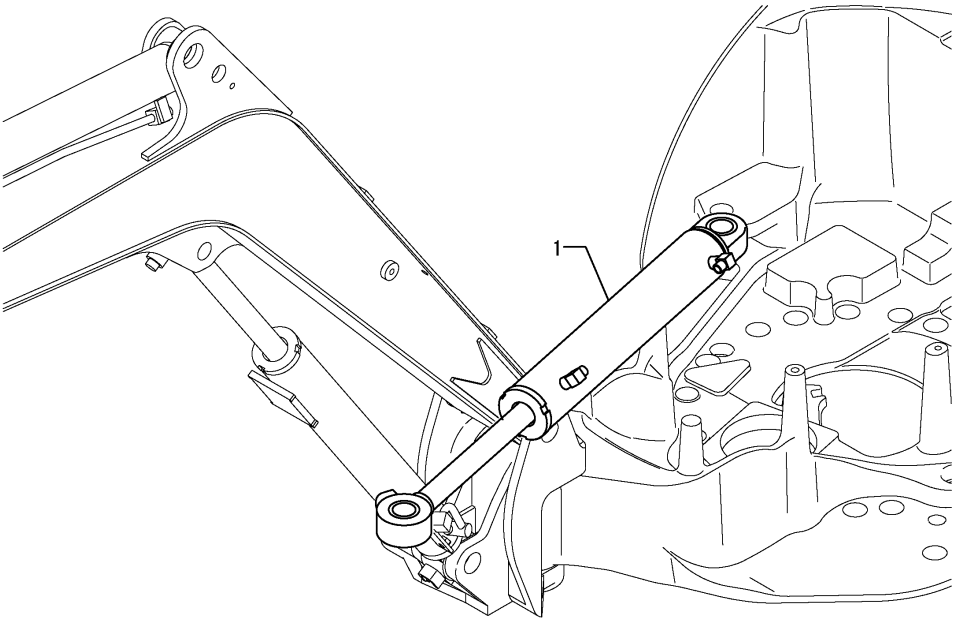


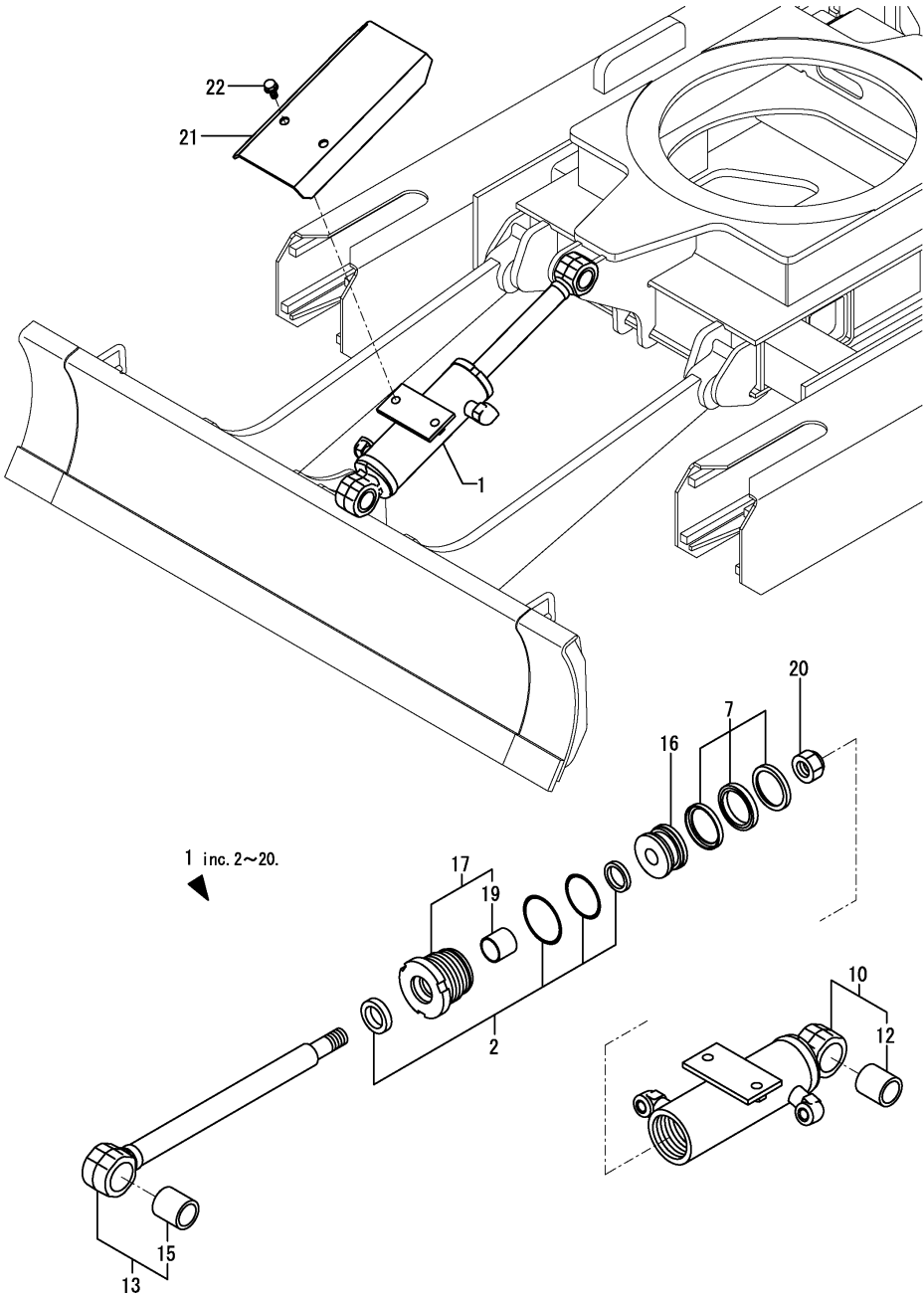
Fig.45. SWING CYLINDER



(A)=VIO12-2A P(KR)
(B)=
(C)=

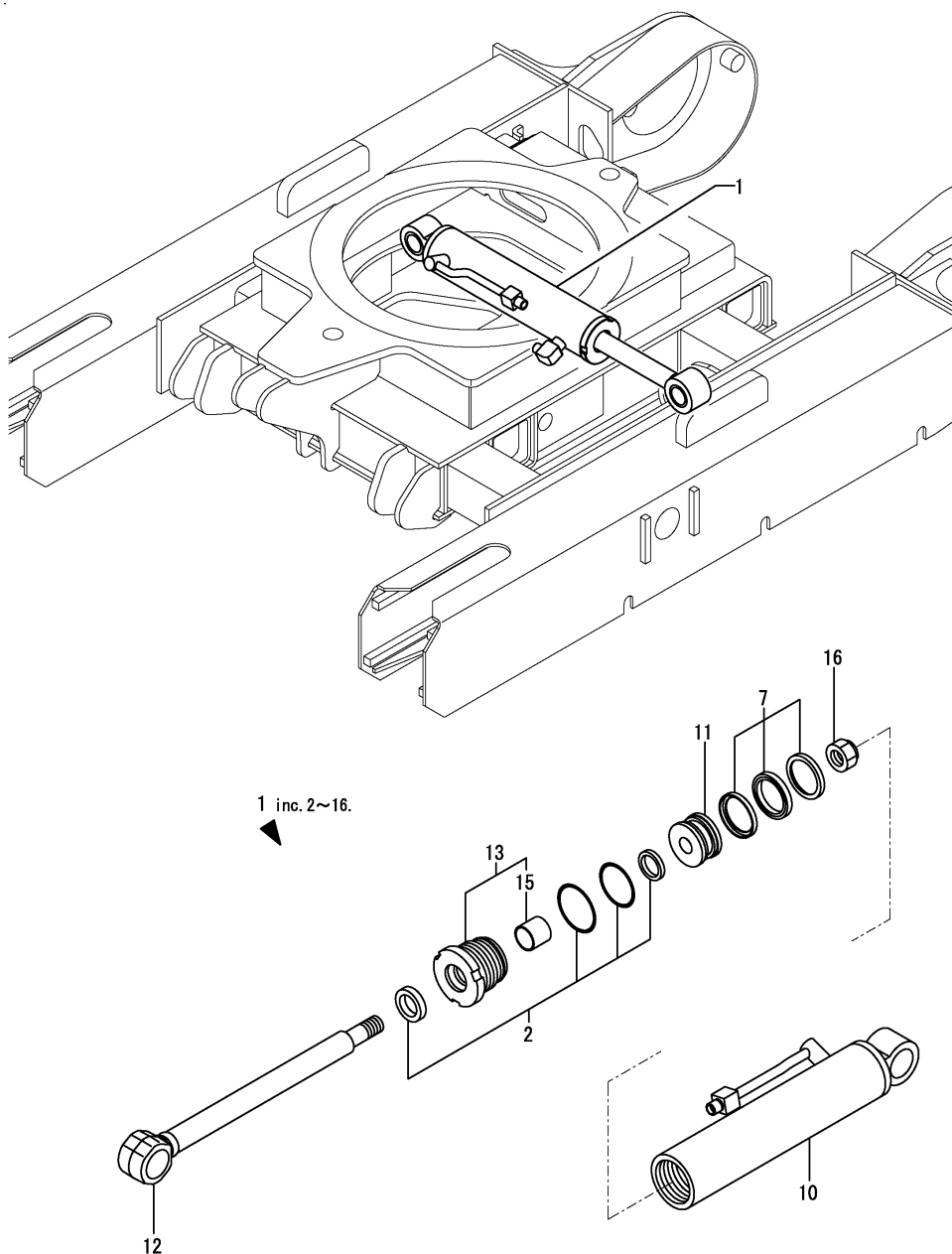
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172480-72400-1	CYLINDER ASSY, SWING	1							
2	2	172A64-72020	SEAL SET, HEAD 60X30	1							
7	2	172638-72201	GASKET ASSY, RGU 60	1							
7-1	2	172A64-70140	SEAL SET, RGU-60	1							N
(A=M21326)											
10	2	172480-72430-1	TUBE ASSY, SWING	1							
12	3	172186-72911	BUSH, 30-35	1							
13	2	172141-72580	U-NUT, M20	1							
14	2	172447-72860	HEAD ASSY, 60 30	1							
16	3	24550-030300	BUSH, 30X30	1							
17	2	172447-72910	ROD ASSY, SWING	1							
19	3	933125-05300	BUSH, PIN 30 34.5B	1							
20	2	172447-72951	PISTON, 60 20-28	1							
20-1	2	172447-72952	PISTON,60X20X28	1							N
(A=M21326)											
21	2	24761-020000	NIPPLE, GREASE PT1/8	1							
22	2	933125-59600	WASHER, LOCK 60 B	1							



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172480-72300-1	CYLINDER ASSY, BLADE	1							
2	2	172157-72020	SEAL SET, HEAD 50B	1							
7	2	172447-72321	GASKET ASSY, RGU50	1							
7-1	2	172A54-72320	PACKING, BRL50 ASSY	1						N	
		(A=M21326)									
10	2	172480-72380-1	TUBE ASSY, BLADE	1							
12	3	172156-72410	BUSH, PIN 25 35 A	1							
13	2	172480-72390	ROD ASSY, BLADE	1							
15	3	172156-72410	BUSH, PIN 25 35 A	1							
16	2	172447-72531	PISTON, 50 18X28	1							
16-1	2	172447-72532	PISTON,50X18X28	1						N	
		(A=M21326)									
17	2	172157-72620	HEAD ASSY, 50 25 B	1							
19	3	24550-025250	BUSH, 25X25	1							
20	2	172157-72730	U-NUT, M18	1							
21	1	172A64-72690	PROTECTOR	1							
22	1	26014-100252	BOLT, M10X 25	2							

Fig.47. VARIABLE LEG WIDEN / SHORTEN CYLINDER

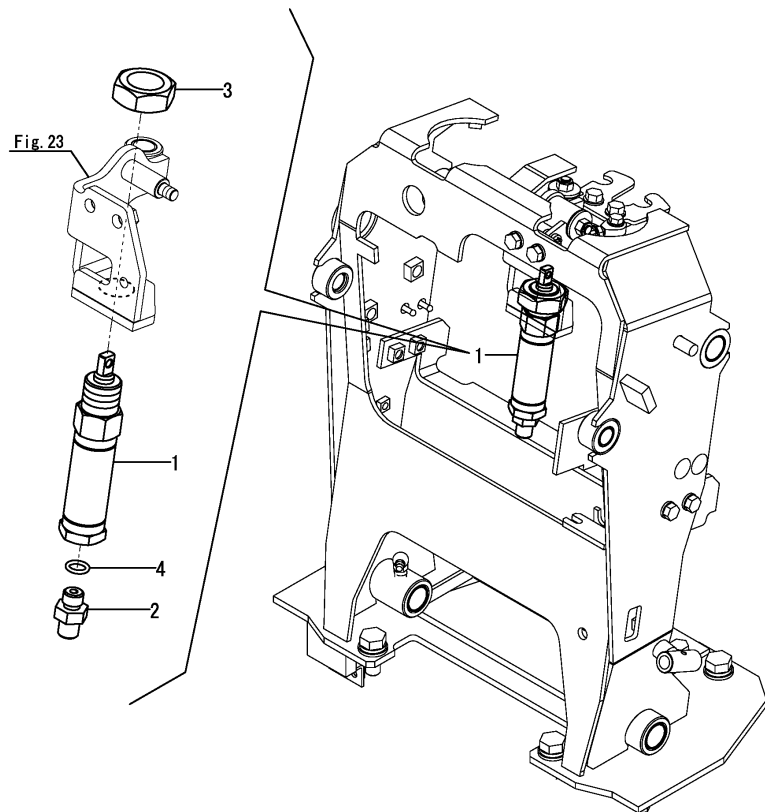


(A)=VIO12-2A P(KR)
(B)=
(C)=

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

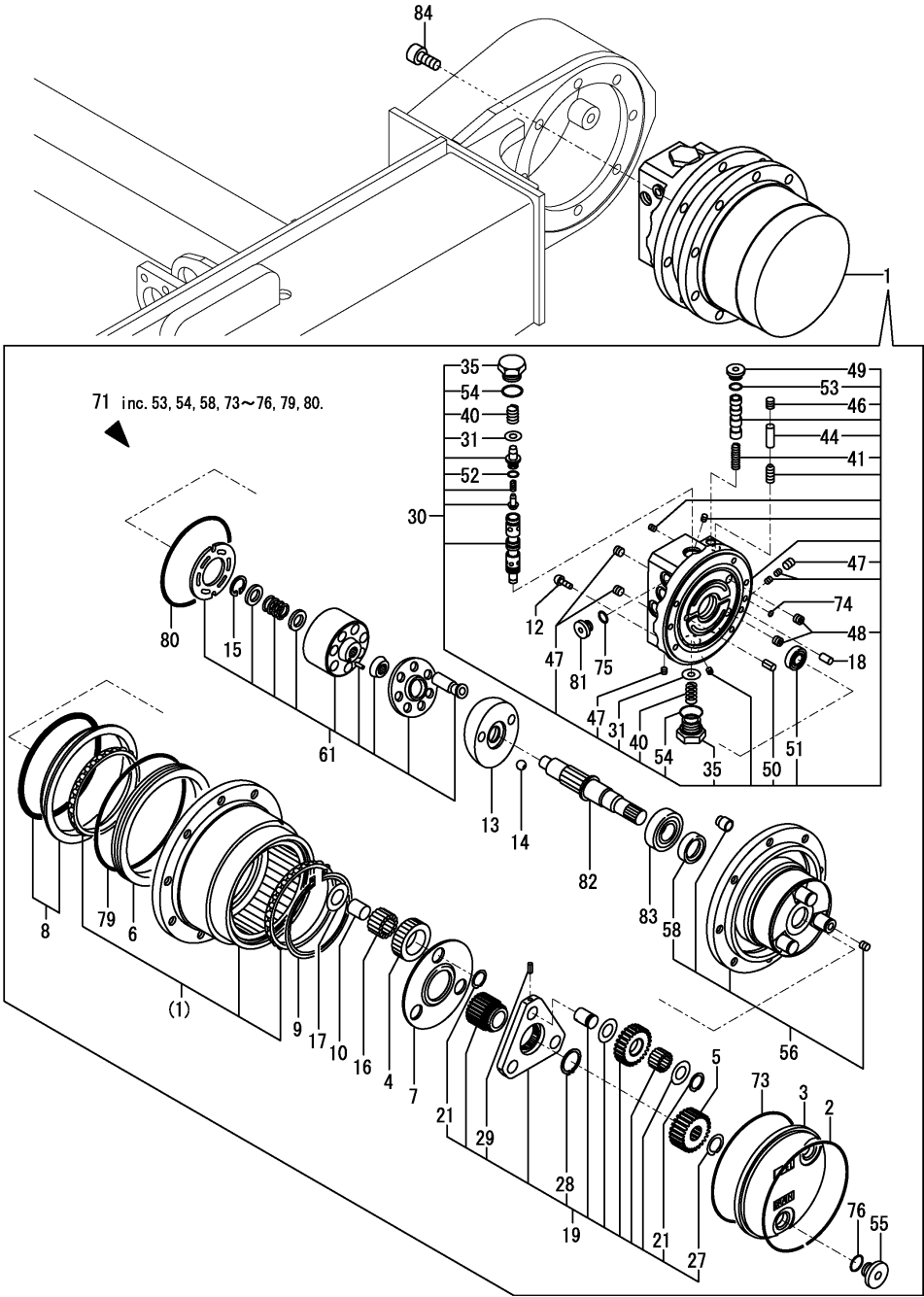
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172480-72500-1	CYLINDER ASSY	1							
2	2	172157-72020	SEAL SET, HEAD 50B	1							
7	2	172447-72321	GASKET ASSY, RGU50	1							
7-1	2	172A54-72320	PACKING, BRL50 ASSY	1							N
		(A=M21326)									
10	2	172480-72510-1	TUBE ASSY, VARIABLE	1							
11	2	172447-72531	PISTON, 50 18X28	1							
11-1	2	172447-72532	PISTON,50X18X28	1							N
		(A=M21326)									
12	2	172480-72530	ROD ASSY, VARIABLE	1							
13	2	172157-72620	HEAD ASSY, 50 25 B	1							
15	3	24550-025250	BUSH, 25X25	1							
16	2	172157-72730	U-NUT, M18	1							

Fig.48. LOCK CYLINDER

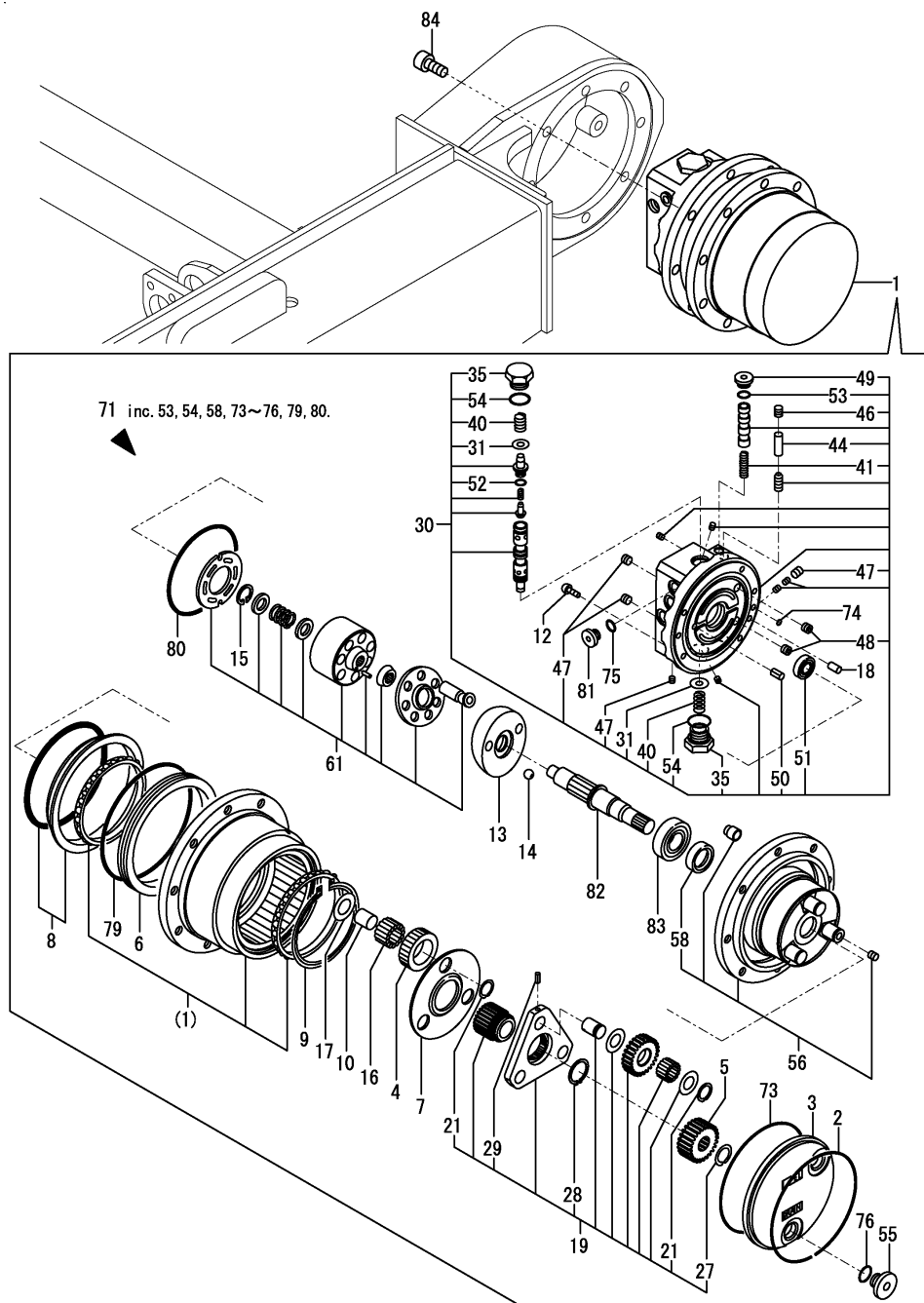


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172B58-72900	CYLINDER, LOCK	1							
2	1	172123-76121	ADAPTER	1							
3	1	26776-240002	NUT, LOCK M24	1							
4	1	41851-000110	O-RING, P11.0 HNBR	1							

Fig.49. TRAVEL MOTOR

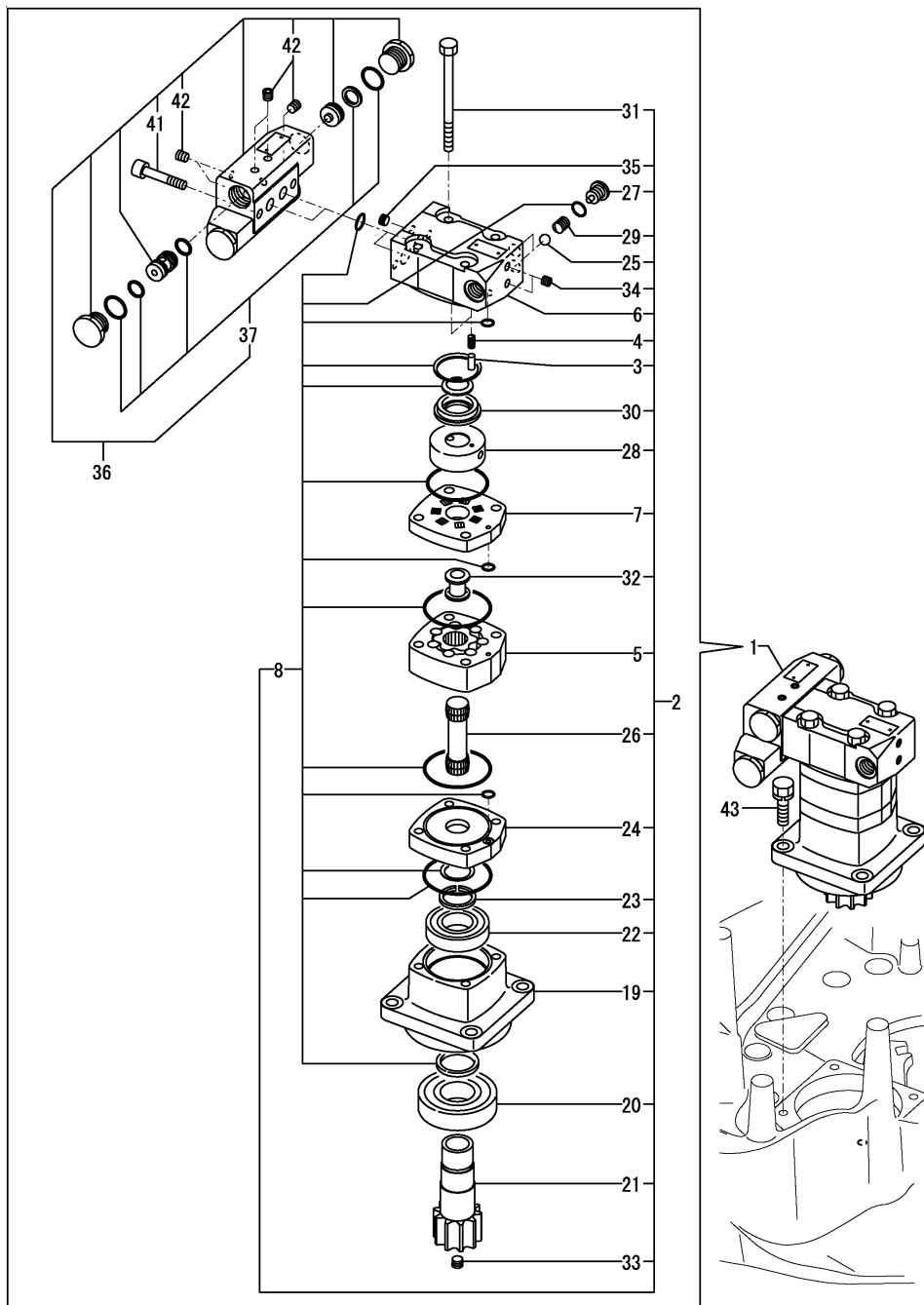


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172447-73300	MOTOR ASSY, TRAVEL	2							
2	2	172157-70090	RING, SNAP	2							
3	2	172447-73100	COVER	2							
4	2	172447-73120	GEAR	6							
5	2	172447-73140	GEAR	2							
6	2	172447-73150	RING, SEAL	2							
7	2	172447-73160	PLATE, THRUST	2							
8	2	172447-73170	SEAL, A	2							
9	2	172447-73180	RING, SNAP	2							
10	2	172447-73190	RING	6							
12	2	172186-73240	BOLT, HEX SOCKET	14							
13	2	172447-73250	PLATE	2							
14	2	172447-73280	BALL	4							
15	2	172126-73400	SNAP RING	2							
16	2	172186-73410	NEEDLE	90							
17	2	172447-73510	WASHER, THRUST	6							
18	2	172425-73540	PIN, PARALLEL 8X54	2							
19	2	172447-73550	CARRIER KIT	2							
21	3	172157-70240	SNAP RING	12							
27	3	172186-73450	RING, SNAP	2							
28	3	22242-000150	RING, 15	2							
29	3	22351-030012	PIN, SPRING 3.0X12	6							
30	2	172447-73560	BODY 1 ASSY	2							
31	3	172157-70450	RING	4							
35	3	172186-73160	PLUG	4							
40	3	172447-73440	SPRING	4							
41	3	172447-73450	SPRING	2							
44	3	172447-73480	NEEDLE	4							
46	3	172422-73550	PLUG	4							
47	3	172422-73550	PLUG	8							
48	3	172422-73650	PLUG	4							
49	3	172187-73670	PLUG	4							
50	3	22351-050012	PIN, SPRING 5.0X12	2							
51	3	24101-060020	BEARING, BALL 6002C3	2							
52	3	24311-000100	O-RING, 1AP10.0	4							
53	3	24315-000140	O-RING, 1BP14.0	4							
54	3	24315-000180	O-RING, 1BP18.0	4							
55	2	172187-73570	PLUG	4							
56	2	172447-73570	PLATE KIT	2							
58	3	172186-73230	SEAL, OIL	2							
61	2	172447-73580	BARREL KIT, CYLINDER	2							
71	2	172447-73590	O-RING KIT	2							
73	3	172447-73500	O-RING	2							
74	3	24315-000060	O-RING, 1BP6.0	2							
75	3	24315-000110	O-RING, 1BP11.0	4							
76	3	24315-000140	O-RING, 1BP14.0	4							
79	3	24321-001300	O-RING, 1AG130.0	2							
80	3	24325-001050	O-RING 1B G-105.0	2							
81	2	172187-73600	PLUG	4							
82	2	172186-73710	SHAFT	2							
83	2	24101-060044	BEARING, BALL 6004	2							



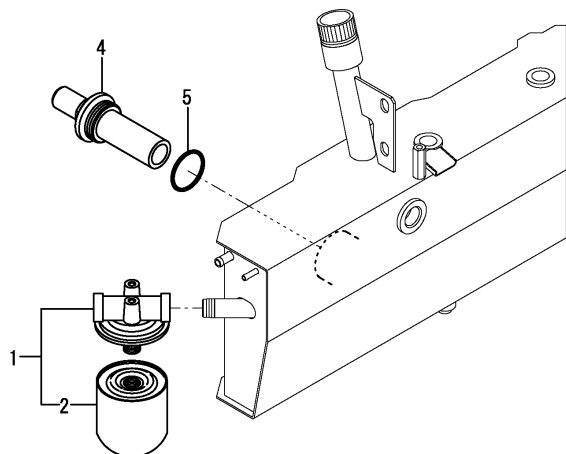
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
84	1	26450-100252	BOLT, M10X 25	16							

Fig.50. TURNING MOTOR



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172480-73310	MOTOR ASSY, SWING	1							
2	2	172480-73320	MOTOR ASSY, SWING	1							
3	3	172137-70570	PIN	2							
4	3	172137-70580	SPRING	2							
5	3	172480-73330	GEROLLER	1							
6	3	172480-73340	HOUSING, VALVE	1							
7	3	172148-73350	PLATE, VALVE	1							
8	3	172480-73350	SEAL SET	1							
19	3	172171-73410	HOUSING, BEARING	1							
20	3	172171-73430	BEARING, BALL	1							
21	3	172183-73430	GEAR, PINION	1							
22	3	172171-73440	BEARING, BALL	1							
23	3	172171-73460	RING, RETAINING	1							
24	3	172186-73550	PLATE, WEAR	1							
25	3	172168-73580	BALL, STEEL	2							
26	3	172186-73580	DRIVE	1							
27	3	172168-73590	PLUG	2							
28	3	172173-73590	VALVE	1							
29	3	172168-73600	SPRING	2							
30	3	172173-73600	RING, BALANCING	1							
31	3	172186-73610	BOLT, 6X22	4							
32	3	172141-77260	DRIVE, VALVE	1							
33	3	23871-010000	PLUG, R01	1							
34	3	23871-010000	PLUG, R01	2							
35	3	23871-020000	PLUG, R02	2							
36	2	172480-73410	VALVE COMPL.	1							
37	3	172456-77110	SEAL SET, VALVE	1							
41	3	172456-77130	BOLT 6*65	2							
42	3	23871-010000	PLUG, R01	6							
43	1	26013-120402	BOLT, M12X 40	4							

Fig.51. OIL STRAINER

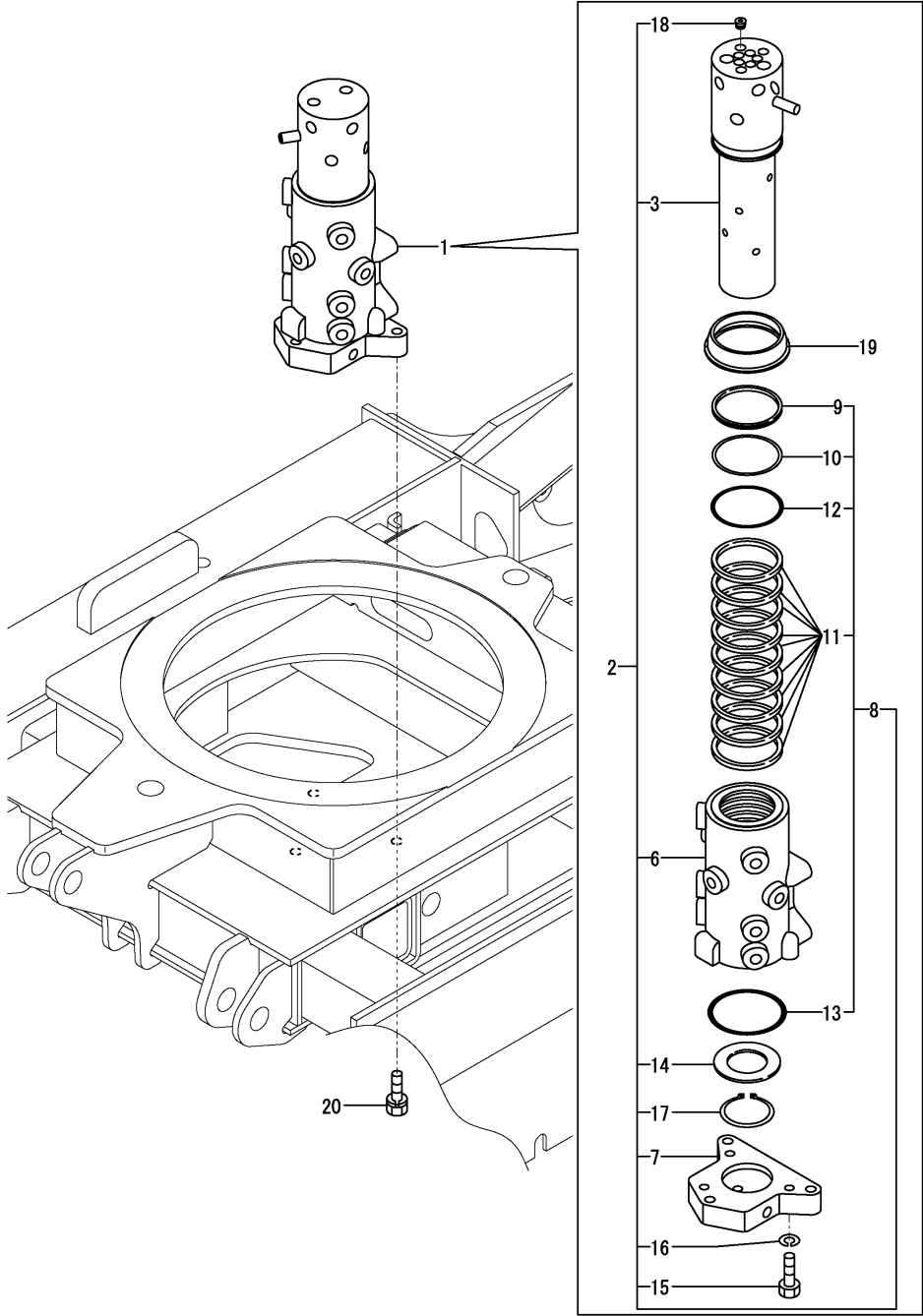


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172156-73700	FILTER ASSY, RETURN	1							
2	2	172156-73710	ELEMENT, FILTER	1							
4	1	172480-73700	FILTER, SUCTION	1							
5	1	24315-000440	O-RING 1B P-44.0	1							

Fig.52. SWIVEL JOINT

(A)=VIO12-2A P(KR)
(B)=
(C)=

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



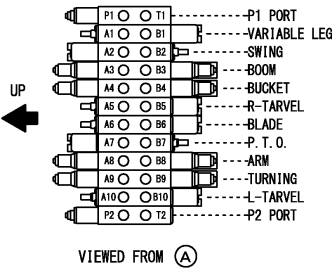
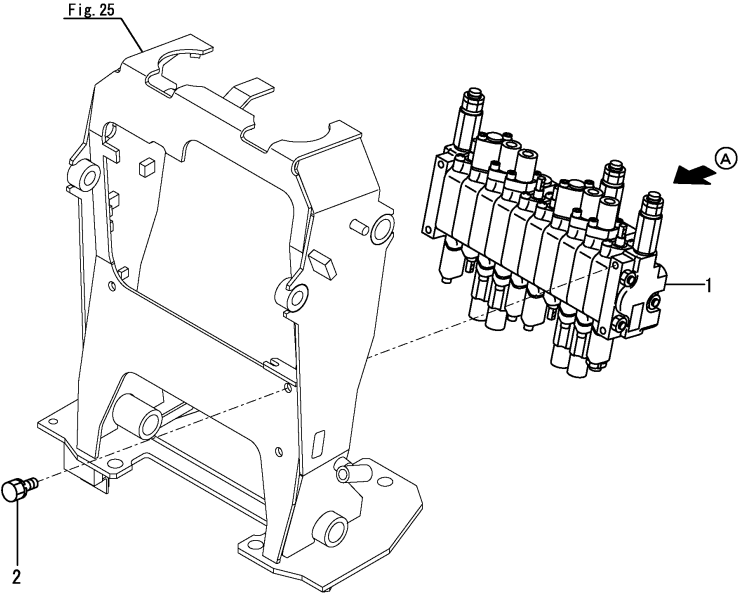
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A64-73790	JOINT ASSY, SWIVEL S	1							
2	2	172A64-73800	JOINT ASSY,SWIVEL S	1							
3	3	172A64-73810	SHAFT ASSY,SWIVEL SL	1							
6	3	172A64-73840	HUB, SWIVEL S	1							
7	3	172A64-73850	FLANGE,SWIVEL SL	1							
8	3	172A64-73860	SEAL KIT, SWIVEL	1							
9	4	172A64-73870	V-RING	1							
10	4	172B02-73880	RING, BACKUP T3 55	1							
11	4	172B02-73890	SEAL, SWIVEL	9							
12	4	24315-000560	O-RING, 1BP56.0	1							
13	4	24325-000700	O-RING, 1BG70.0	1							
14	3	172B02-73860	SPACER, SWIVEL	1							
15	3	172A64-73890	BOLT,10.9 8X 40	3							
16	3	22217-080000	WASHER, SPRING 8	3							
17	3	22242-000451	RING, 45	1							
18	3	23871-010000	PLUG, R01	8							
19	2	172448-73900	COVER, DUCT	1							
20	1	26013-100302	BOLT, M10X 30	3							

Fig.53. CONTROL VALVE(1/7)

(A)=VIO12-2A P(KR)
(B)=
(C)=

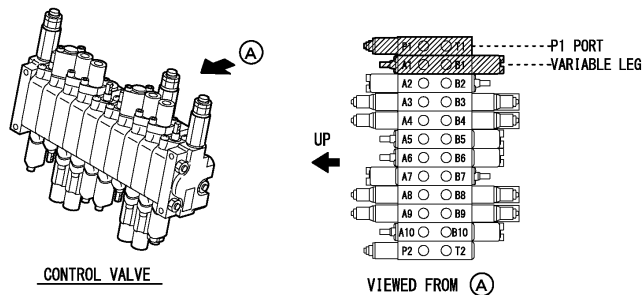
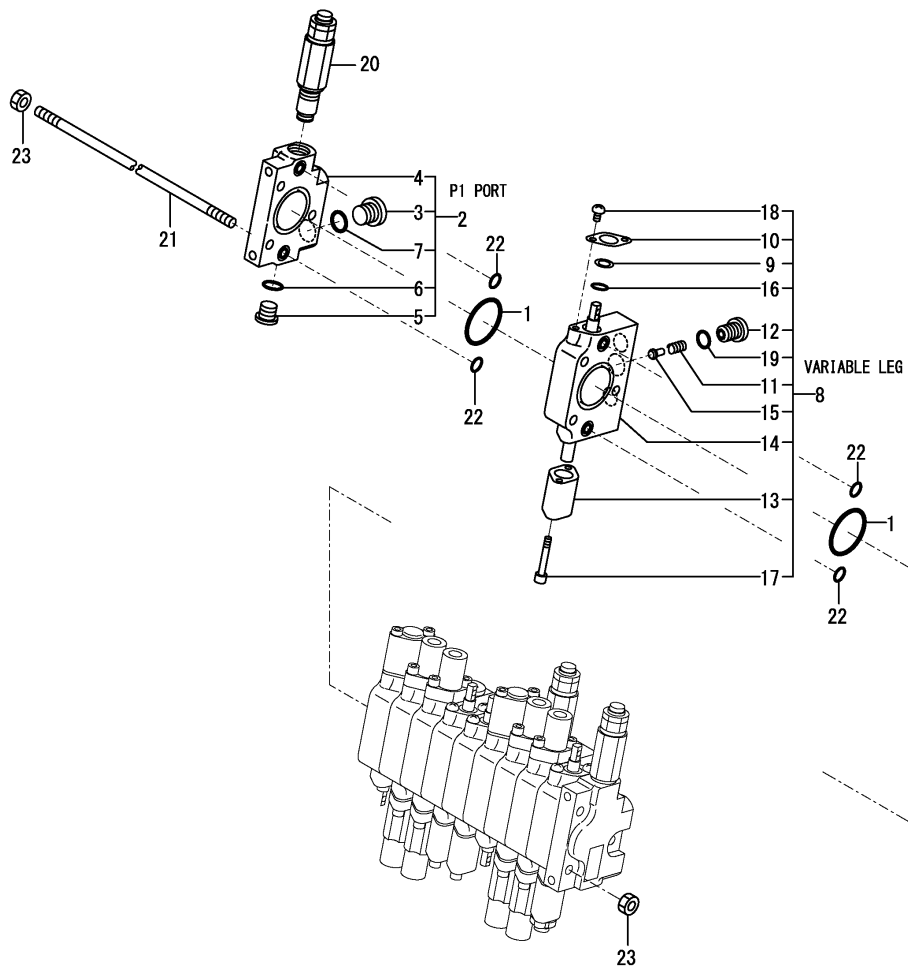
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172480-74300	VALVE ASSY, CONTROL	1							1
2	1	26013-080162	BOLT, M8X 16	3							



Remarks
(1)Inner parts are shown in Fig.59 from Fig.54.

Fig.54. CONTROL VALVE(2/7)



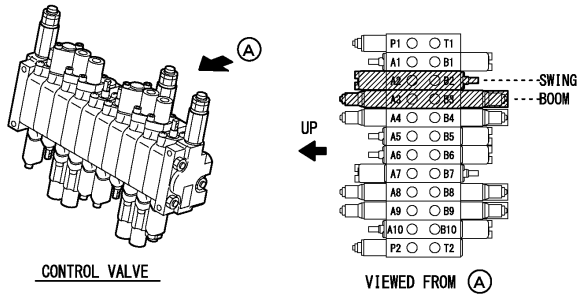
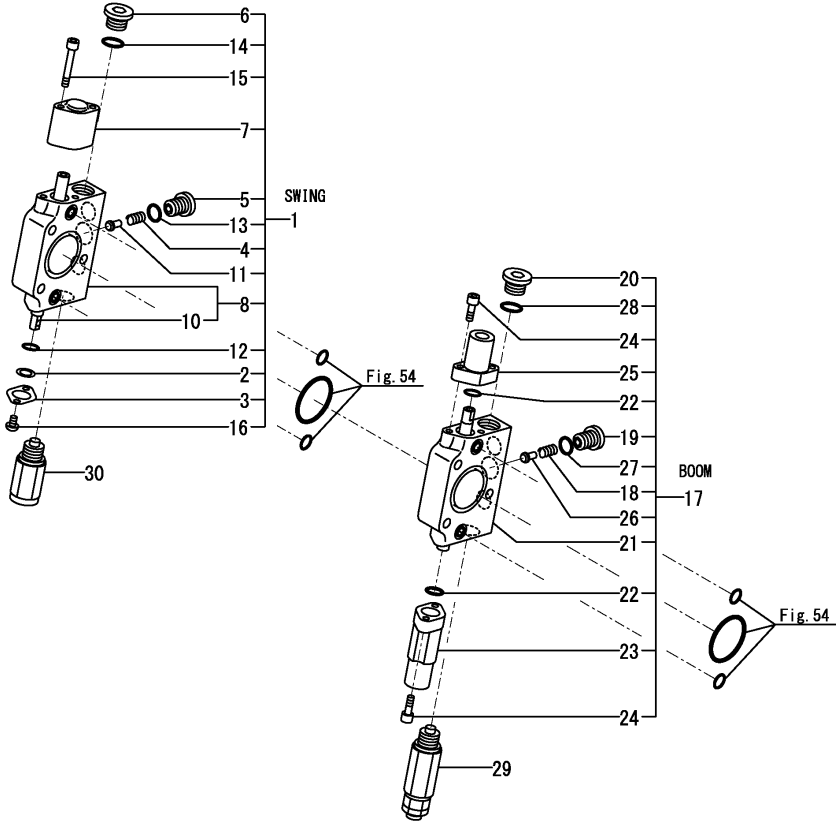
(A)=VIO12-2A P(KR)
(B)=
(C)=

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

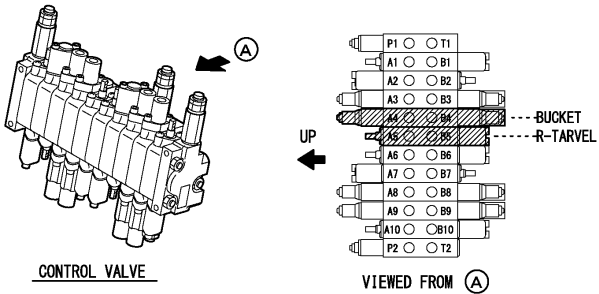
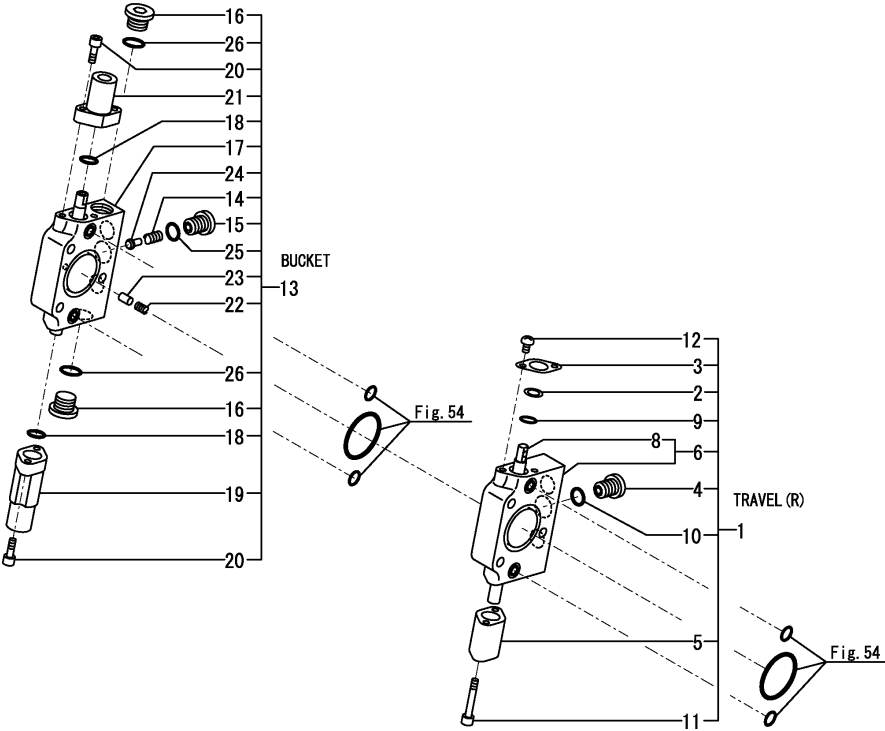
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172157-70710	O-RING, 1B 127	11							
2	2	172446-74120	SECTION ASSY, P1	1							
3	3	172157-70720	PLUG, PF3/8	1							
4	3	172447-74250	SECTION ASSY, P1	1							
5	3	172183-74350	PLUG, PF1/4	1							
6	3	24315-000110	O-RING, 1BP11.0	1							
7	3	24315-000140	O-RING, 1BP14.0	1							
8	2	172480-74120	SECTION ASSY, OPTION	1							
9	3	172157-70630	RING, BACK UP	1							
10	3	172157-70640	RETAINER, O-RING	1							
11	3	172157-70690	SPRING, CHECK VALVE	1							
12	3	172157-70700	STAY, CHECK VALVE	1							
13	3	172157-70820	CAP, SPRING	1							
14	3	172448-74350	SPOOL ASSY, OPTION	1							
15	3	172137-74520	VALVE, CHECK	1							
16	3	24311-240100	O-RING, 1AP10A	1							
17	3	26450-050452	BOLT, M5X 45	2							
18	3	26557-050102	SCREW, M5X10	2							
19	3	24315-000110	O-RING, 1BP11.0	1							
20	2	172480-74250	VALVE ASSY, RELIEF	1							
21	2	172446-74560	BOLT, L288	3							
22	2	24315-000100	O-RING, 1BP10.0	22							
23	2	26716-080002	NUT, M8	6							

(A)=VIO12-2A P(KR)
(B)=
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172446-74130	SECTION ASSY, SWING	1							
2	3	172157-70630	RING, BACK UP	1							
3	3	172157-70640	RETAINER, O-RING	1							
4	3	172157-70690	SPRING, CHECK VALVE	1							
5	3	172157-70700	STAY, CHECK VALVE	1							
6	3	172157-70720	PLUG, PF3/8	1							
7	3	172157-70820	CAP, SPRING	1							
8	3	172446-74410	SECTION, SWING SUB	1							
10	4	172446-74260	SPOOL ASSY, SWING	1							
11	3	172137-74520	VALVE, CHECK	1							
12	3	24311-240100	O-RING, 1AP10A	1							
13	3	24315-000110	O-RING, 1BP11.0	1							
14	3	24315-000140	O-RING, 1BP14.0	1							
15	3	26450-050452	BOLT, M5X 45	2							
16	3	26557-050102	SCREW, M5X10	2							
17	2	172480-74140	SECTION ASSY, BOOM	1							
18	3	172157-70690	SPRING, CHECK VALVE	1							
19	3	172157-70700	STAY, CHECK VALVE	1							
20	3	172157-70720	PLUG, PF3/8	1							
21	3	172480-74150	SPOOL ASSY, BOOM	1							
22	3	172449-74220	O-RING, AS 1A016	2							
23	3	172449-74270	CAP, A1	1							
24	3	172449-74280	BOLT, M5 X 20	4							
25	3	172449-74290	CAP, B1	1							
26	3	172137-74520	VALVE, CHECK	1							
27	3	24315-000110	O-RING, 1BP11.0	1							
28	3	24315-000140	O-RING, 1BP14.0	1							
29	2	172447-74221	VALVE ASSY, RELIEF	1							
30	2	172447-74230	ANTI-CAVITATION ASSY	1							

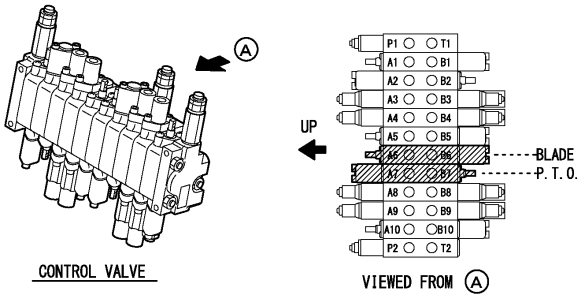
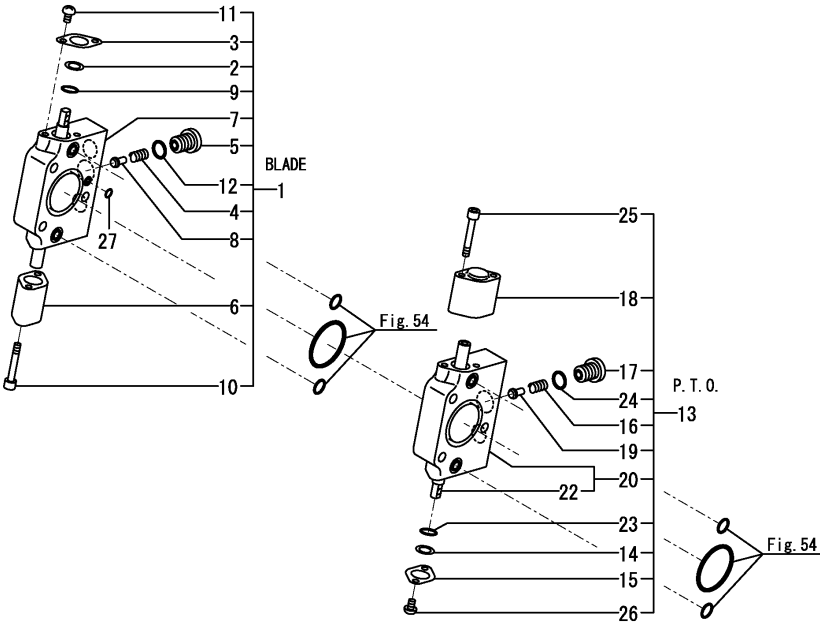


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172446-74160	SECTION ASSY, TRAVEL	1							
2	3	172157-70630	RING, BACK UP	1							
3	3	172157-70640	RETAINER, O-RING	1							
4	3	172157-70700	STAY, CHECK VALVE	1							
5	3	172157-70820	CAP, SPRING	1							
6	3	172446-74440	SECTION ASSY, TRAVEL	1							
8	4	172446-74320	SPOOL ASSY, TRAVEL	1							
9	3	24311-240100	O-RING, 1AP10A	1							
10	3	24315-000110	O-RING, 1BP11.0	1							
11	3	26450-050452	BOLT, M5X 45	2							
12	3	26557-050102	SCREW, M5X10	2							
13	2	172480-74160	SECTION ASSY, BUCKET	1							
14	3	172157-70690	SPRING, CHECK VALVE	1							
15	3	172157-70700	STAY, CHECK VALVE	1							
16	3	172157-70720	PLUG, PF3/8	2							
17	3	172480-74170	SPOOL ASSY, BUCKET	1							
18	3	172449-74220	O-RING, AS 1A016	2							
19	3	172449-74270	CAP, A1	1							
20	3	172449-74280	BOLT, M5 X 20	4							
21	3	172449-74290	CAP, B1	1							
22	3	172447-74300	SPRING, CHECK VALVE	1							
23	3	172447-74310	VALVE, CHECK	1							
24	3	172137-74520	VALVE, CHECK	1							
25	3	24315-000110	O-RING, 1BP11.0	1							
26	3	24315-000140	O-RING, 1BP14.0	2							

Fig.57. CONTROL VALVE(5/7)

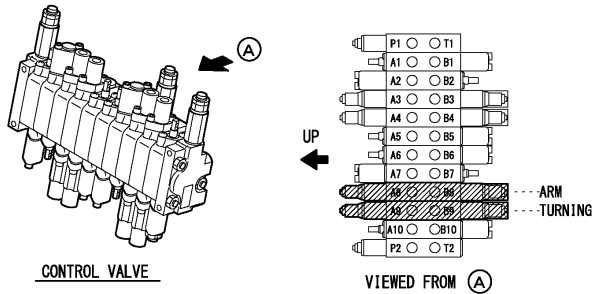
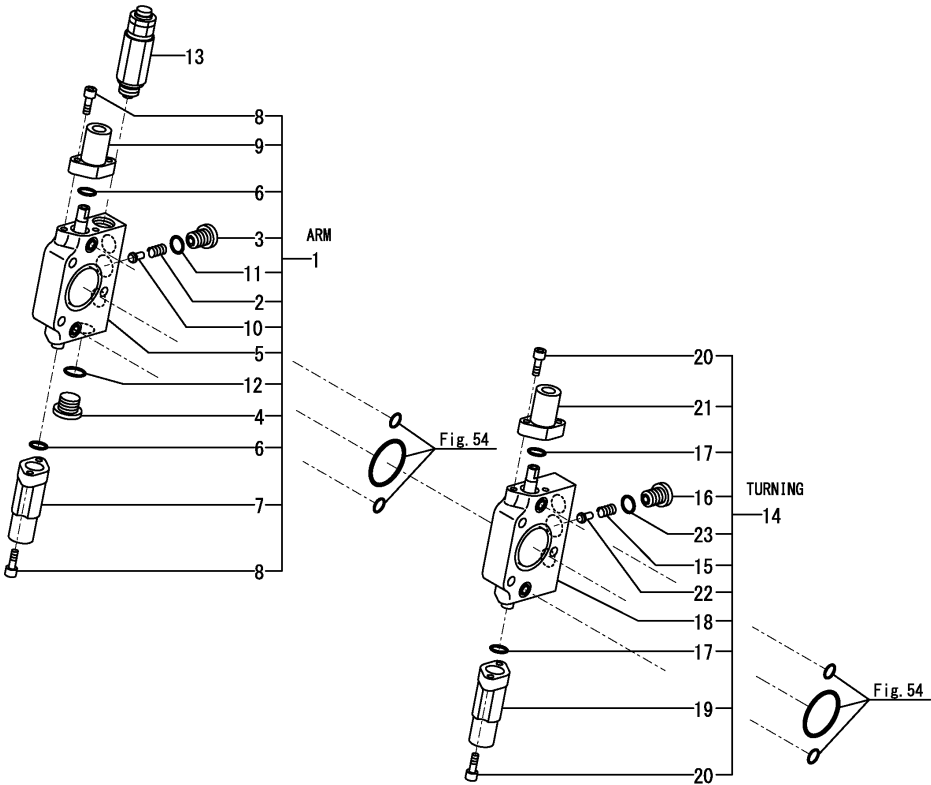
(A)=VIO12-2A P(KR)
(B)=
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172480-74180	SECTION ASSY, BLADE	1							
2	3	172157-70630	RING, BACK UP	1							
3	3	172157-70640	RETAINER, O-RING	1							
4	3	172157-70690	SPRING, CHECK VALVE	1							
5	3	172157-70700	STAY, CHECK VALVE	1							
6	3	172157-70820	CAP, SPRING	1							
7	3	172480-74190	SPOOL ASSY, BLADE	1							
8	3	172137-74520	VALVE, CHECK	1							
9	3	24311-240100	O-RING, 1AP10A	1							
10	3	26450-050452	BOLT, M5X 45	2							
11	3	26557-050102	SCREW, M5X10	2							
12	3	24315-000110	O-RING, 1BP11.0	1							
13	2	172446-74600	SECTION ASSY, PTO	1							
14	3	172157-70630	RING, BACK UP	1							
15	3	172157-70640	RETAINER, O-RING	1							
16	3	172157-70690	SPRING, CHECK VALVE	1							
17	3	172157-70700	STAY, CHECK VALVE	1							
18	3	172157-70820	CAP, SPRING	1							
19	3	172137-74520	VALVE, CHECK	1							
20	3	172446-74630	SECTION ASSY, PTO	1							
22	4	172446-74620	SPOOL ASSY, PTO	1							
23	3	24311-240100	O-RING, 1AP10A	1							
24	3	24315-000110	O-RING, 1BP11.0	1							
25	3	26450-050452	BOLT, M5X 45	2							
26	3	26557-050102	SCREW, M5X10	2							
27	2	24315-000040	O-RING, 1BP4.0	1							

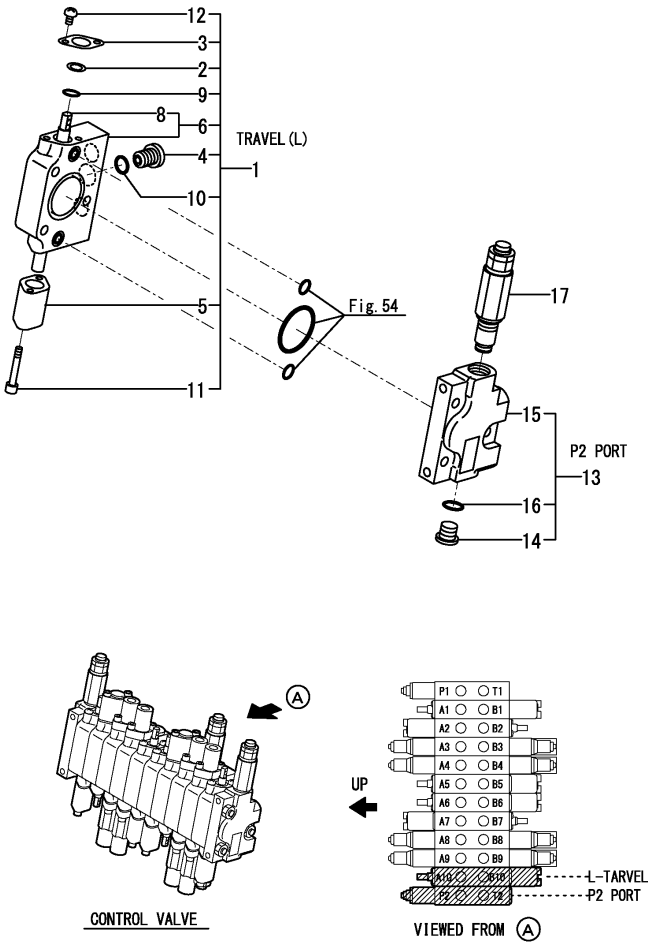
Fig.58. CONTROL VALVE(6/7)



(A)=VIO12-2A P(KR)
(B)=
(C)=
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172480-74200	SECTION ASSY, ARM	1							
2	3	172157-70690	SPRING, CHECK VALVE	1							
3	3	172157-70700	STAY, CHECK VALVE	1							
4	3	172157-70720	PLUG, PF3/8	1							
5	3	172480-74210	SPOOL ASSY, ARM	1							
6	3	172449-74220	O-RING, AS 1A016	2							
7	3	172449-74270	CAP, A1	1							
8	3	172449-74280	BOLT, M5 X 20	4							
9	3	172449-74290	CAP, B1	1							
10	3	172137-74520	VALVE, CHECK	1							
11	3	24315-000110	O-RING, 1BP11.0	1							
12	3	24315-000140	O-RING, 1BP14.0	1							
13	2	172447-74221	VALVE ASSY, RELIEF	1							
14	2	172480-74220	SECTION ASSY, SWING	1							
15	3	172157-70690	SPRING, CHECK VALVE	1							
16	3	172157-70700	STAY, CHECK VALVE	1							
17	3	172449-74220	O-RING, AS 1A016	2							
18	3	172480-74230	SPOOL ASSY, TURNING	1							
19	3	172449-74270	CAP, A1	1							
20	3	172449-74280	BOLT, M5 X 20	4							
21	3	172449-74290	CAP, B1	1							
22	3	172137-74520	VALVE, CHECK	1							
23	3	24315-000110	O-RING, 1BP11.0	1							

Fig.59. CONTROL VALVE(7/7)

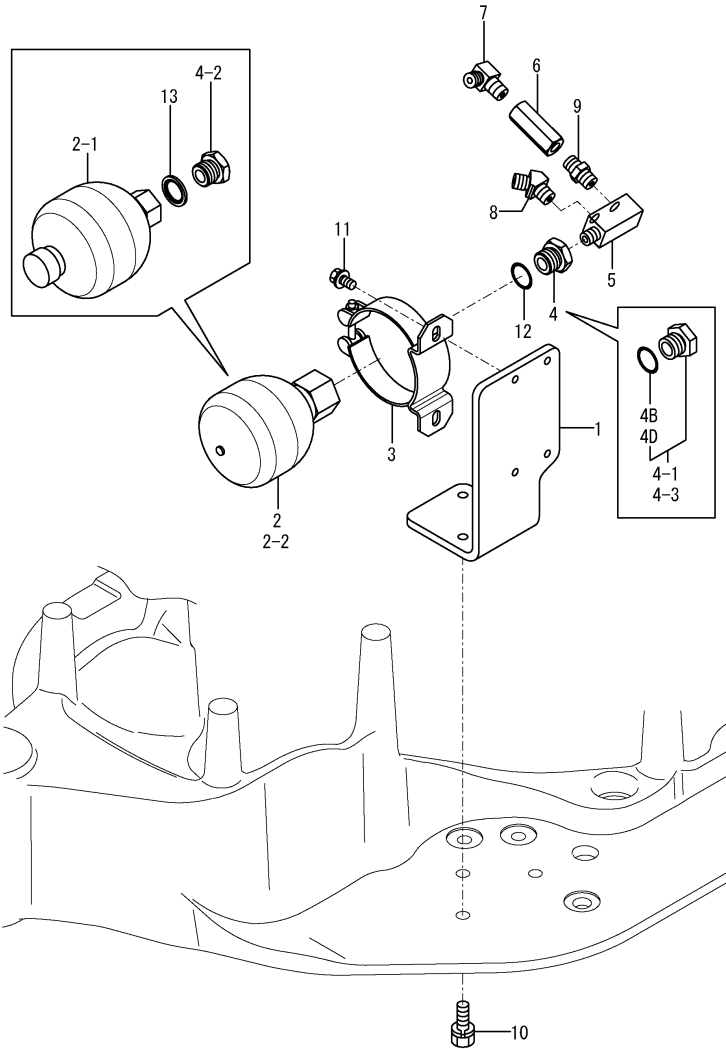


(A)=VIO12-2A P(KR)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172446-74160	SECTION ASSY, TRAVEL	1							
2	3	172157-70630	RING, BACK UP	1							
3	3	172157-70640	PLATE, O-RING	1							
4	3	172157-70700	STAY, VALVE	1							
5	3	172157-70820	CAP, SPRING	1							
6	3	172446-74440	SECTION ASSY, TRAVEL	1							
8	4	172446-74320	SPOOL ASSY, TRAVEL	1							
9	3	24311-240100	O-RING, 1AP10A	1							
10	3	24315-000110	O-RING, 1BP11.0	1							
11	3	26450-050452	BOLT, M5X 45	2							
12	3	26557-050102	SCREW, M5X10	2							
13	2	172447-74200	SECTION ASSY	1							
14	3	172183-74350	PLUG	1							
15	3	172447-74380	SECTION	1							
16	3	24315-000110	O-RING, 1BP11.0	1							
17	2	172480-74250	VALVE ASSY, RELIEF	1							

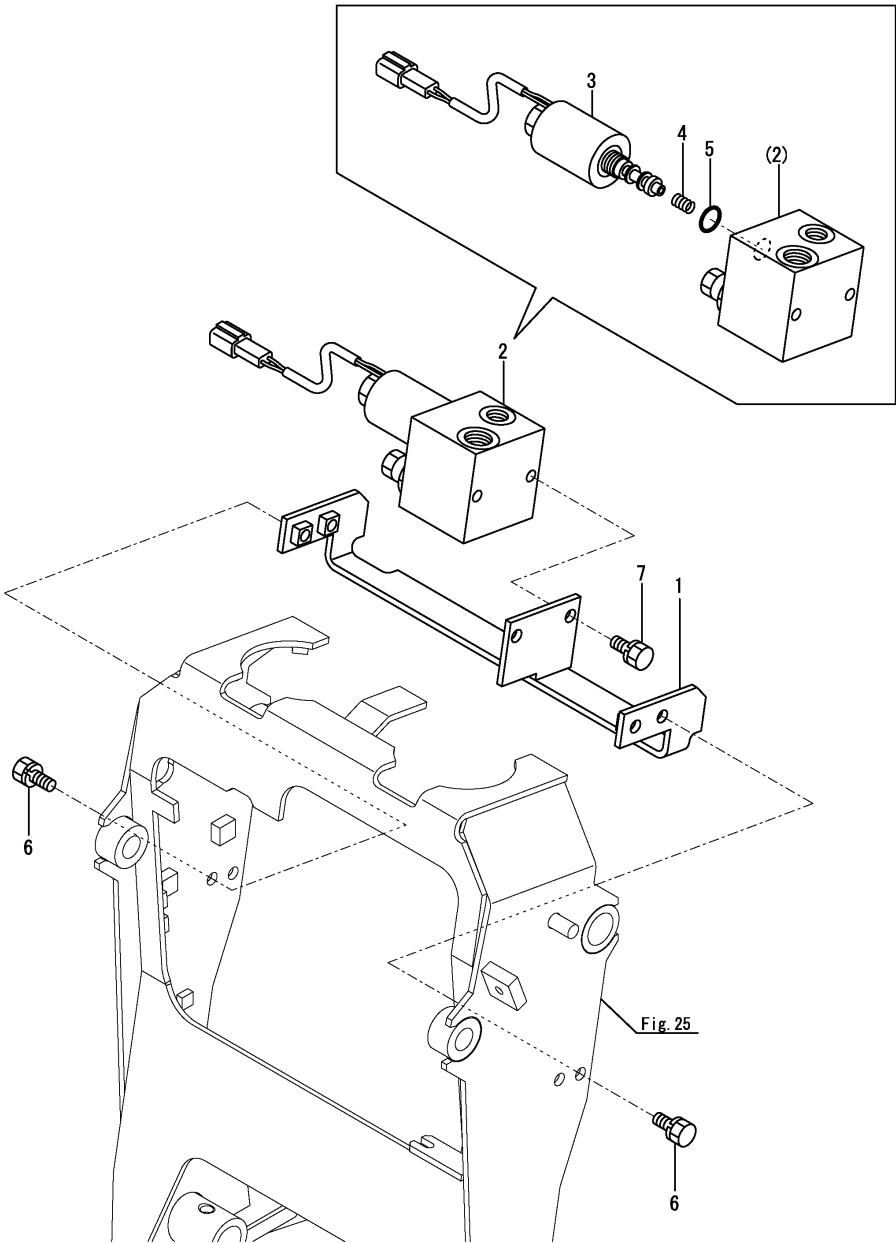
Fig.60. ACCUMULATOR



Remarks
(1)Interchangeable by simultaneous replacement with No.4-2 & 13.
(2)Interchangeable by simultaneous replacement with No.4-3.

OCK50-M01480 Fig.60											
				(A)=VIO12-2A P(KR)	(D)=						
				(B)=	(E)=						
				(C)=	(F)=						
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172B58-71320	BRACKET,ACC	1							
2	1	172B11-73600	ACCUMULATOR	1							
2-1	1	172B57-73600	ACCUMULATOR	1							F 1
2-2	(A=M22531)										
	1	172B11-73600	ACCUMULATOR	1							F 2
	(A=M22620)										
3	1	172B11-73630	CLAMP	1							
4	1	172110-76050	BUSH	1							
4-1	1	172110-76051	BUSHING	1							N
4-2	(A=M21359)										
	1	172A54-76200	CONNECTOR,G1/2-RC1/4	1							F
	(A=M22531)										
4-3	1	172110-76051	BUSHING	1							F
	(A=M22620)										
4B	2	24319-000180	PACKING,HNBR-90 P 18	1							W
4B-1	(A=M21359)										
	2	24319-000180	PACKING,HNBR-90 P 18	1							Z
	(A=M22531)										
4D	2	24319-000180	PACKING,HNBR-90 P 18	1							W
	(A=M22620)										
5	1	172181-76100	CONNECTOR, 3XPT1/4	1							
6	1	172156-76290	VALVE, CHECK PT1/4	1							
7	1	23393-020000	JOINT, 90RGI-1/4	1							
8	1	23394-020000	JOINT, 45RGI-1/4	1							
9	1	23395-020000	JOINT, RRN-1/4	1							
10	1	26013-100252	BOLT, M10X 25	2							
11	1	26014-080162	BOLT, M8X 16	2							
12	1	41851-000180	O-RING, P 18.0 HNBR	1							Z
	(A=M21359)										
13	1	172B12-76240	SEAL RING, BS 1/2	1							W
	(A=M22531)										
13-1	1	172B12-76240	SEAL RING, BS 1/2	1							Z
	(A=M22620)										

Fig.61. CUT OFF VALVE



				0CK50-M01480 Fig.61							
				(A)=VIO12-2A P(KR)				(D)=			
				(B)=				(E)=			
				(C)=				(F)=			
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172480-45600	STAY ASSY, VALVE	1							
2	1	172449-74700	VALVE ASSY, CUT OFF	1							
3	2	172449-74710	SOLENOID, SW36CU151	1							
4	2	172449-74720	SPRING	1							
5	2	24315-000140	O-RING, 1BP14.0	1							
6	1	26013-080162	BOLT, M8X 16	4							
7	1	26013-080162	BOLT, M8X 16	2							

(A)=VIO12-2A P(KR)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A69-74900	VALVE ASSY, L	1							
2	2	172441-74030	BOOT, RUBBER	1							
3	2	172441-74040	LEVER KIT	1							
4	2	172463-74530	JOINT KIT	1							
5	2	172463-74540	PLATE, RETAINING	1							
6	2	172463-74551	PLUNGER KIT	1							
7	2	172463-74561	REGULATION KIT	4							
8	2	172463-74570	SPRING KIT	1							
9	2	172A69-74910	HANDLE	1							
10	1	26014-060162	BOLT, M6X 16	3							
11	1	26014-060162	BOLT, M6X 16	3							
12	1	172B58-74500	VALVE ASSY,R	1							
13	2	172441-74030	BOOT, RUBBER	1							
14	2	172441-74040	LEVER KIT	1							
15	2	172B58-74100	HANDLE ASSY,R	1							
16	2	172463-74530	JOINT KIT	1							
17	2	172463-74540	PLATE, RETAINING	1							
18	2	172463-74551	PLUNGER KIT	1							
19	2	172463-74561	REGULATION KIT	4							
20	2	172463-74570	SPRING KIT	1							

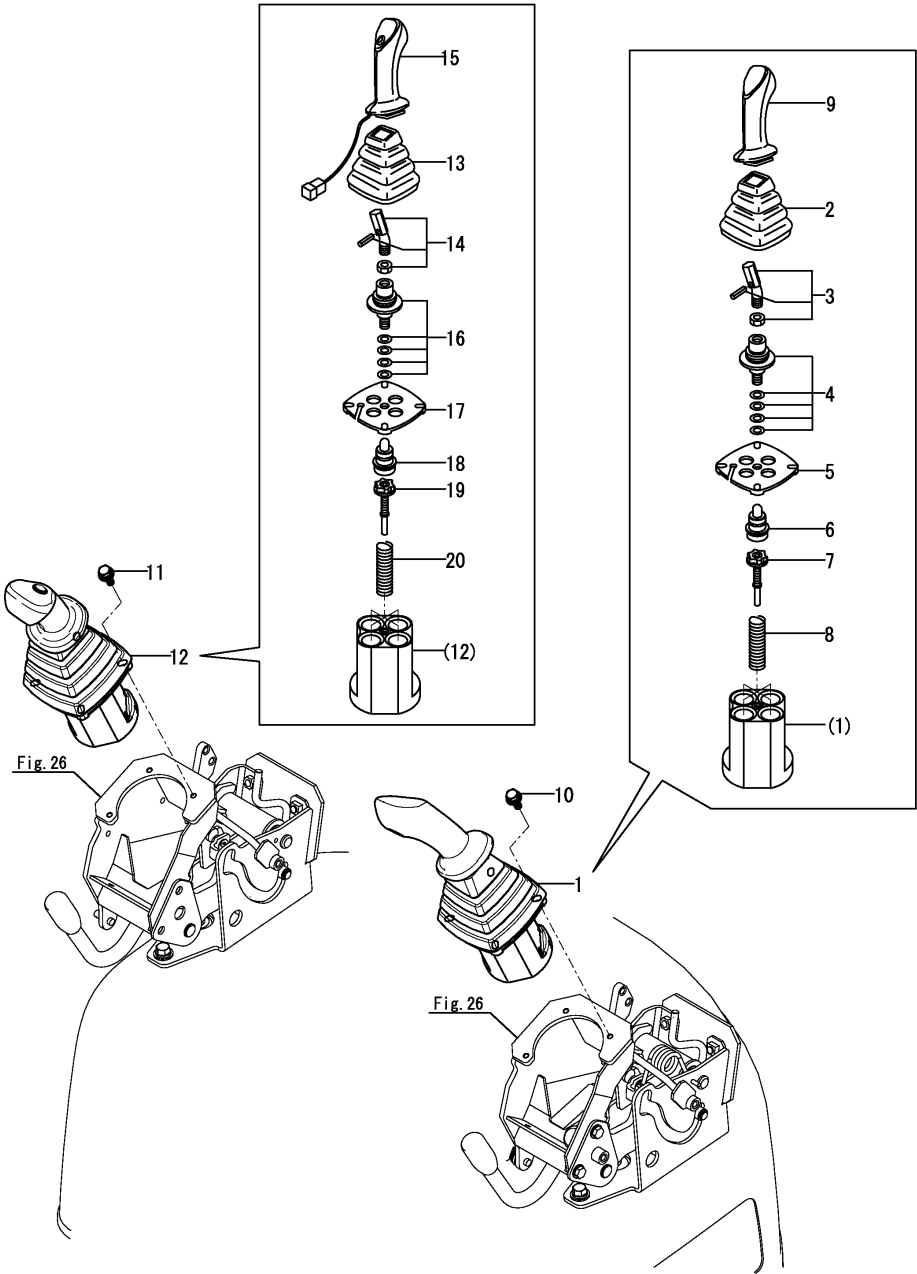
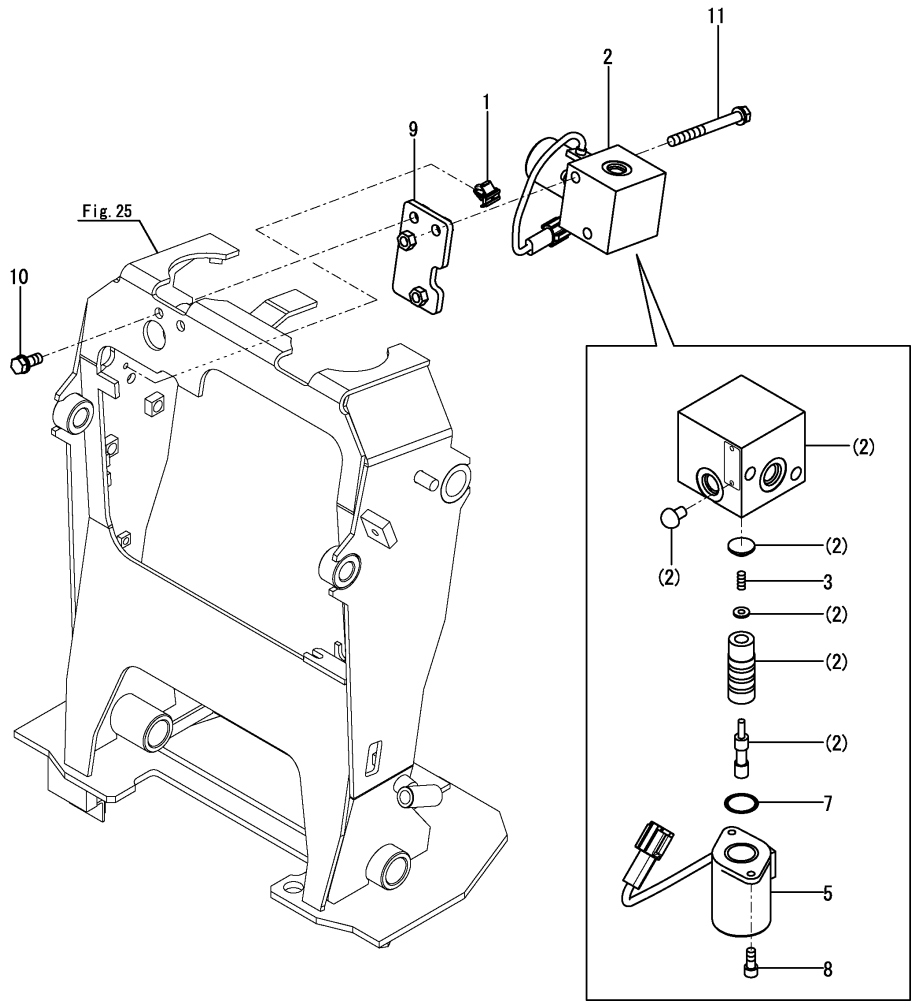
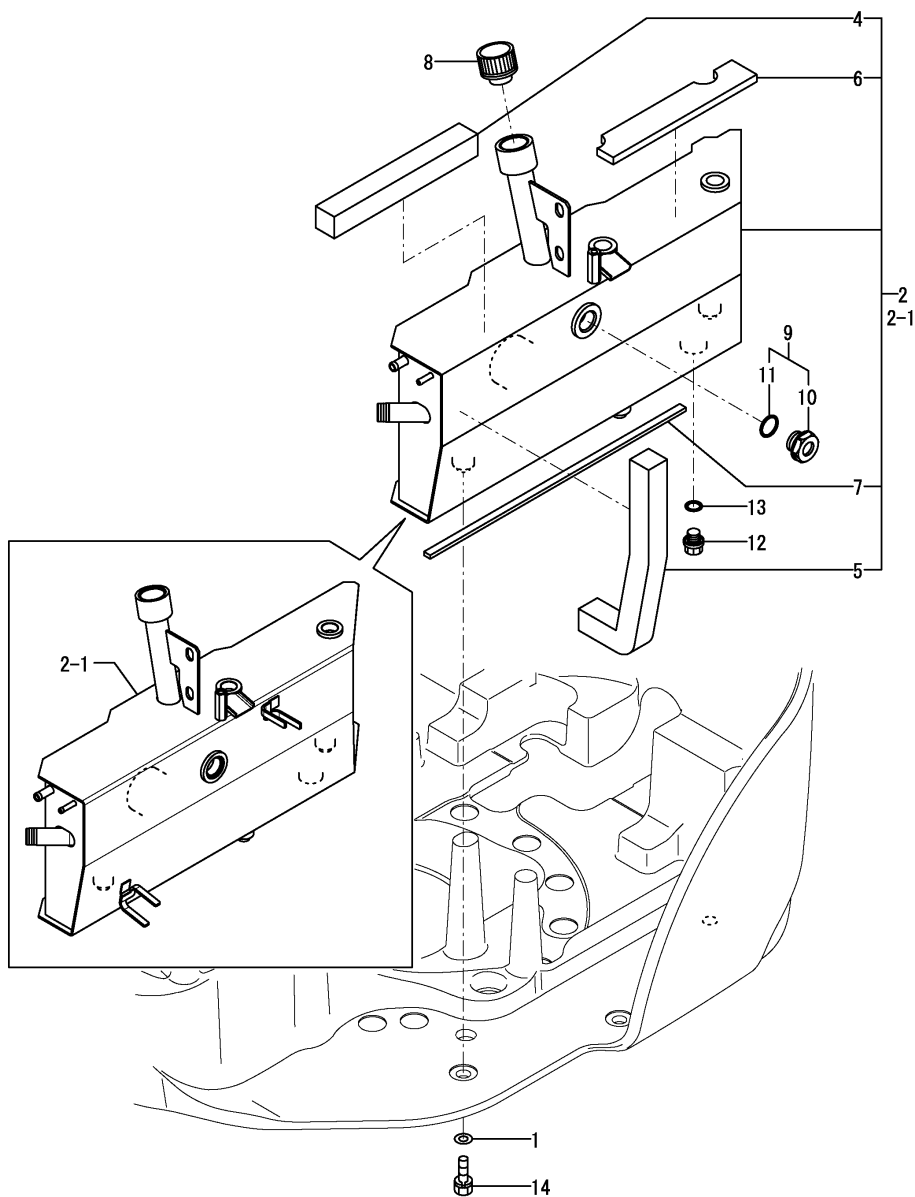


Fig.63. SOLENOID VALVE(2ND GEAR TRAVELING.)

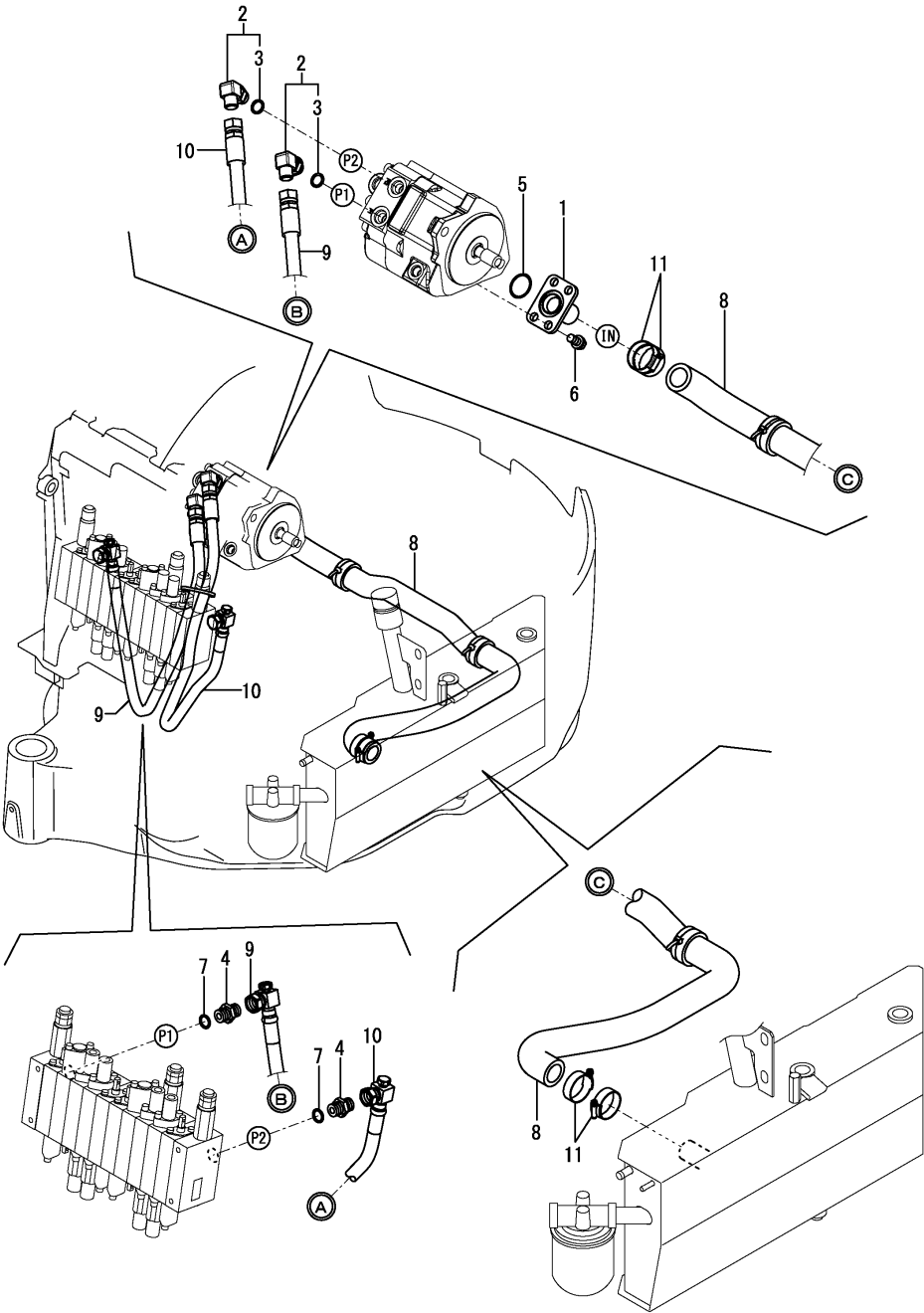


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172B58-16050	CLIP, CONNECTOR	1							
2	1	172186-74141	VALVE ASSY, LOW-HIGH	1							
3	2	172186-74150	SPRING	1							
5	2	172A46-74720	VALVE, SOLENOID	1							
5-1	2	172A46-74721	SOLENOID	1							R
(A=M21915)											
7	2	24311-000160	O-RING, 1AP16.0	1							
8	2	26450-050102	BOLT, M5X 10	2							
9	1	172B58-74700	STAY ASSY, SECOND	1							
10	1	26013-080202	BOLT, M8X 20	2							
11	1	26013-080802	BOLT, M8X 80	2							



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194145-04810	WASHER, 10	3							
2	1	172A54-75100	RESERVOIR ASSY	1							
2-1	1	172A54-75101	RESERVOIR ASSY	1							S
		(A="2020.11)									
4	2	172480-75250	SEAL, RESERVER A	1							
5	2	172480-75260	SEAL, RESERVER B	1							
6	2	172480-75270	SEAL, RESERVER C	1							
7	2	172480-75280	SEAL, RESERVER D	1							
8	1	172446-75250	CAP, RESERVOIR	1							
9	1	172480-75350	GAUGE ASSY,RESERVOIR	1							
10	2	172480-75360	GAUGE, RESERVOIR	1							
11	2	24311-350220	O-RING, 1AP22A	1							
12	1	23491-140002	PLUG, 14	1							
13	1	24311-000160	O-RING, 1AP16.0	1							
14	1	26013-100202	BOLT. M10X 20	3							

Fig.65. TANK - PUMP & CONTROL VALVE



(A)=VIO12-2A P(KR)
(B)=
(C)=

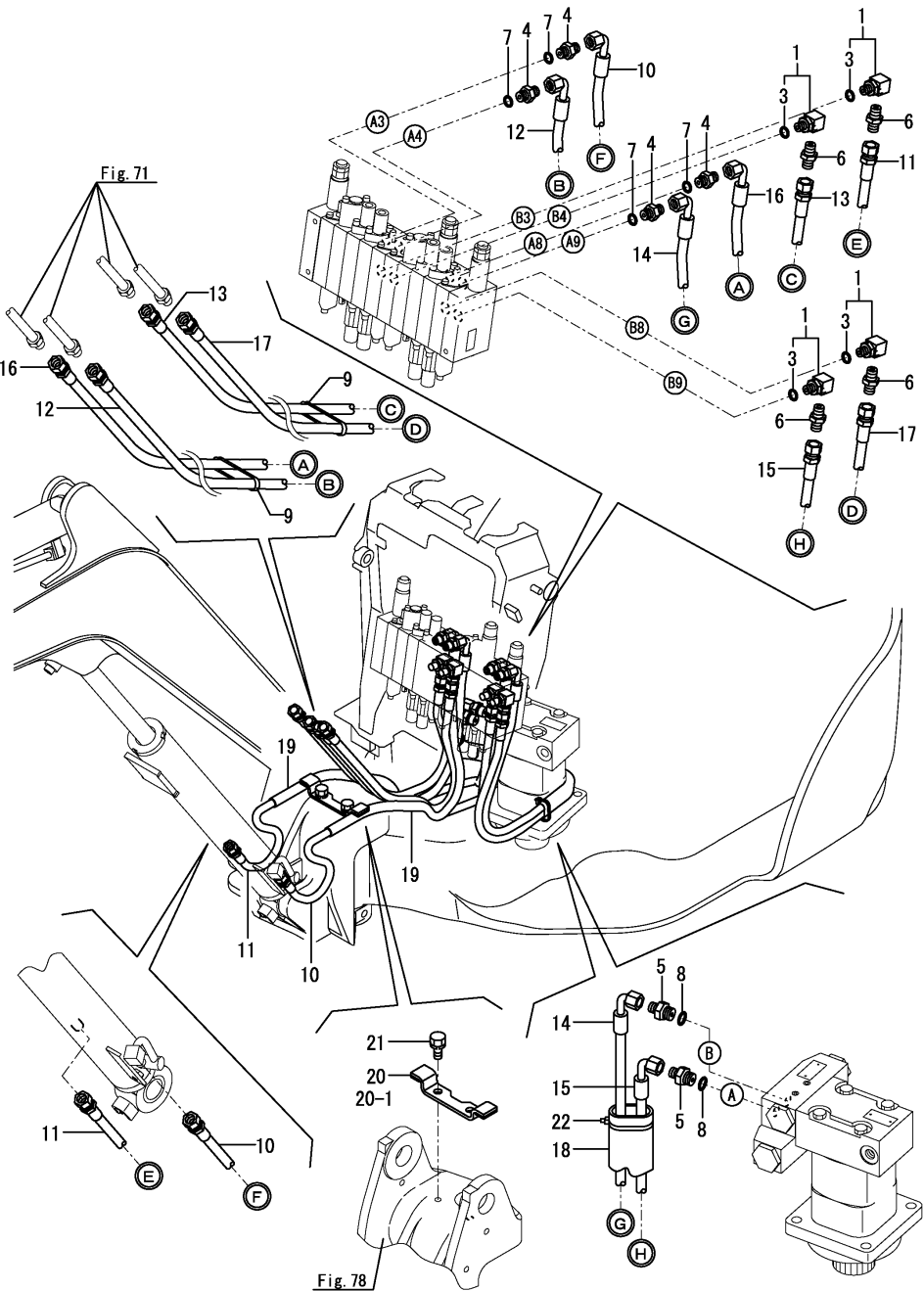
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172116-76160	FLANGE, SUCTION	1							
2	1	172142-76181	JOINT ASSY	2							
3	2	24315-000140	O-RING, 1BP14.0	2							
4	1	172186-76410	ADAPTER, M/M	2							
5	1	24315-000300	O-RING, 1BP30.0	1							
6	1	26013-100252	BOLT, M10X 25	4							
7	1	41851-000140	O-RING, P 14.0 HNBR	2							
8	1	172A54-78100	HOSE ASSY, SUCTION	1							
9	1	172480-78150	HOSE, H206BZ080K	1							
10	1	172A54-78160	HOSE, H206BZ092K	1							
11	1	23001-041000	CLAMP, HOSE 41	4							

Fig.66. CONTROL VALVE - TURNING MOTOR & BOOM

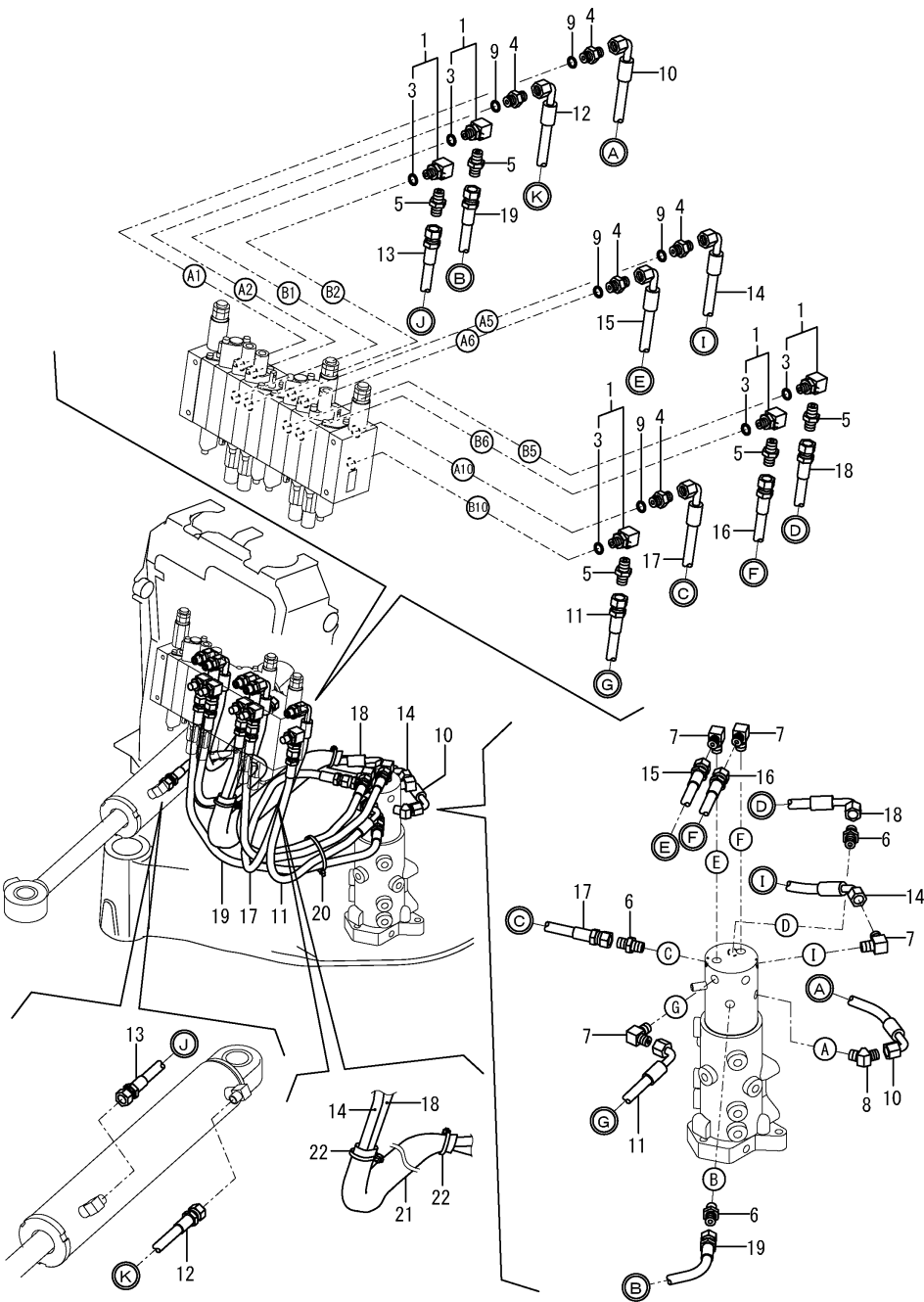
(A)=VIO12-2A P(KR)
(B)=
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172137-76100	ELBOW, PT PF1/4	4							
3	2	24315-000110	O-RING, 1BP11.0	4							
4	1	172123-76121	ADAPTER, M/M PF1/4	4							
5	1	172157-76150	CONNECTOR, 3/8-1/4	2							
6	1	23391-020000	JOINT, RGI-1/4	4							
7	1	41851-000110	O-RING, P11.0 HNBR	4							
8	1	41851-000140	O-RING, P 14.0 HNBR	2							
9	1	172126-11510	BAND, BINDING 300	2							
10	1	172480-78240	HOSE, F204BC101W	1							
11	1	172480-78250	HOSE, F204BB082W	1							
12	1	172480-78261	HOSE, F204BC074K	1							
13	1	172480-78271	HOSE, F204BB063K	1							
14	1	172B58-78300	HOSE, F203CC088	1							
15	1	172B58-78310	HOSE, F203BC083	1							
16	1	172480-78371	HOSE, F204BC074K	1							
17	1	172480-78381	HOSE, F204BB065K	1							
18	1	172157-78640	COVER, HOSE 20-500	1							
19	1	172142-78760	COVER, HOSE 16-650	2							
20	1	172186-78960-Y	CLAMP, HOSE	1							
20-1	1	172186-78960-3	CLAMP ASSY, HOSE	1							S
(A=M22344)											
21	1	26013-100202	BOLT, M10X 20	2							
22	1	933168-55770	BAND, BINDING 146	2							

Fig.67. CONTROL VALVE - SWIVEL JOINT & SWING CYLINDER

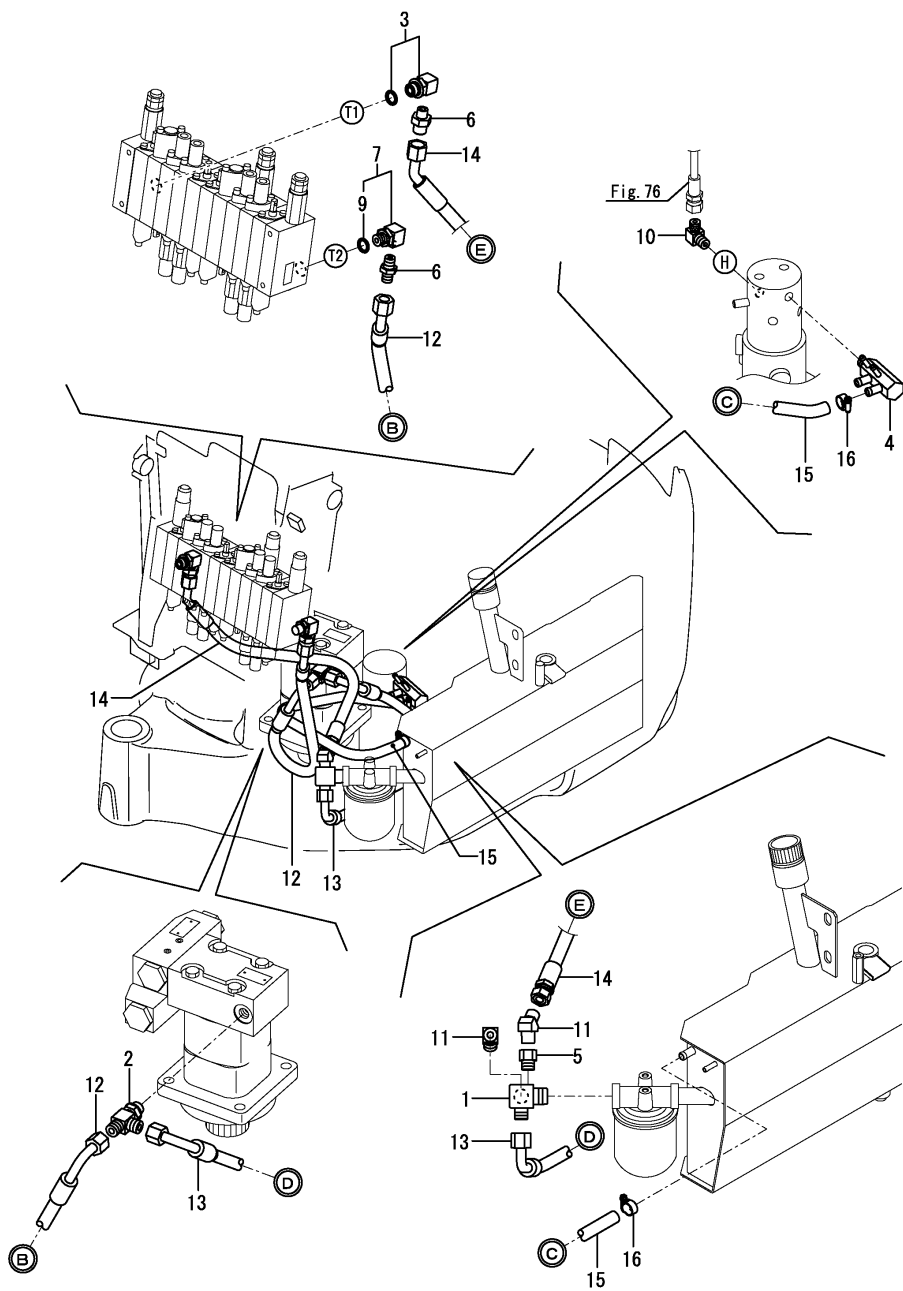


(A)=VIO12-2A P(KR)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172137-76100	ELBOW, PT PF1/4	5							
3	2	24315-000110	O-RING, 1BP11.0	5							
4	1	172123-76121	ADAPTER, M/M PF1/4	5							
5	1	23391-020000	JOINT, RGI-1/4	5							
6	1	23391-020000	JOINT, RGI-1/4	3							
7	1	23393-020000	JOINT, 90RGI-1/4	4							
8	1	23394-020000	JOINT, 45RGI-1/4	1							
9	1	41851-000110	O-RING, P11.0 HNBR	5							
10	1	172480-78200	HOSE, F204CC082	1							
11	1	172446-78210	HOSE, P204BC059	1							
12	1	172446-78220	HOSE, P204BC065	1							
13	1	172480-78230	HOSE, F204BB061	1							
14	1	172480-78300	HOSE, F204CE091	1							
15	1	172480-78320	HOSE, F204BC064	1							
16	1	172480-78330	HOSE, F204BB060	1							
17	1	172480-78430	HOSE, F204BC077	1							
18	1	172446-78470	HOSE, P204BC073	1							
19	1	172446-78480	HOSE, P204BB065	1							
20	1	933168-55770	BAND, BINDING 146	1							
21	1	172157-78640	COVER, HOSE 20-500	1							W
(A=M23779)											
22	1	933168-55770	BAND, BINDING 146	2							W
(A=M23779)											

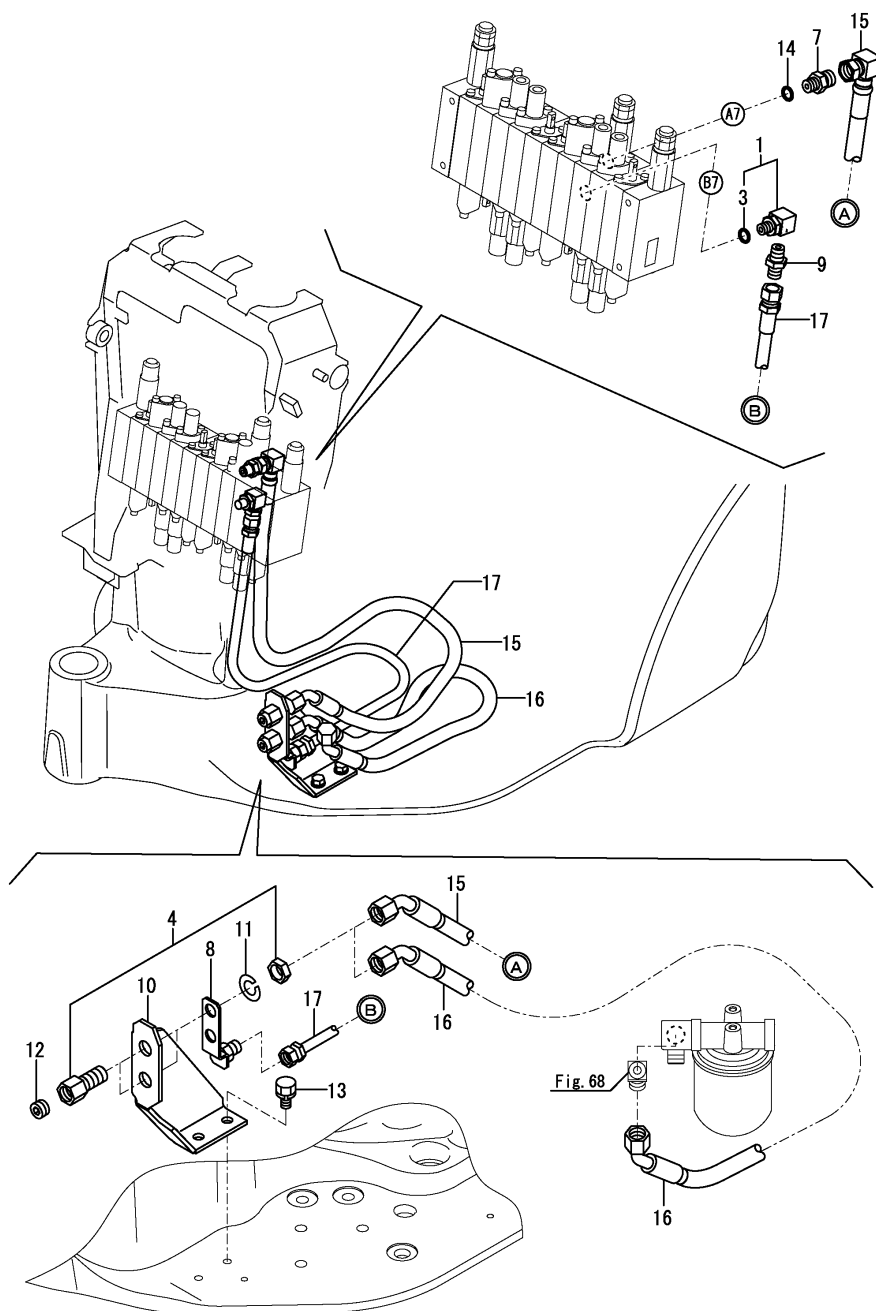
Fig.68. RETURN



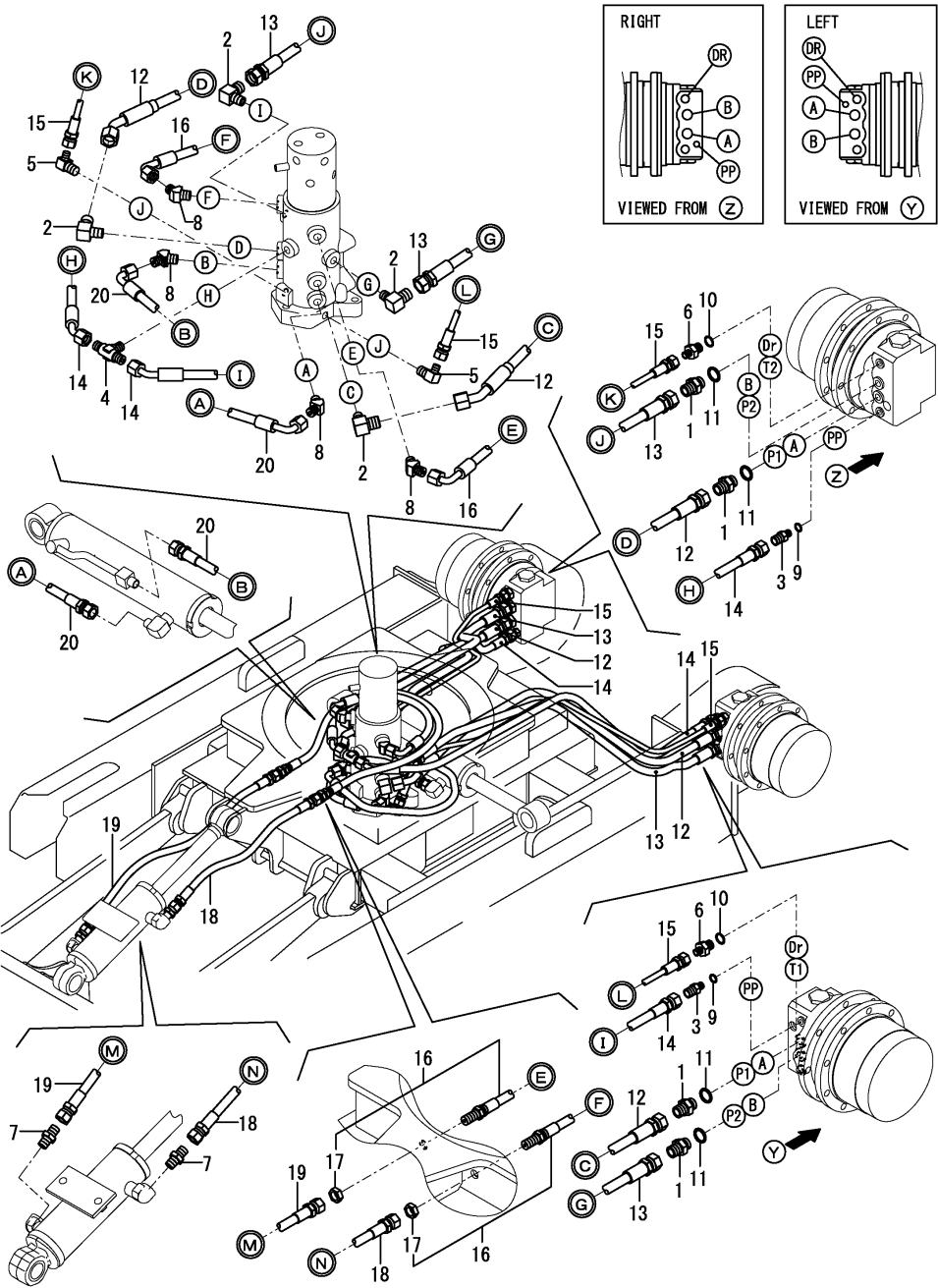
(A)=VIO12-2A P(KR)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172480-76101	CONNECTOR,4P	1							
2	1	172480-76120	TEE, ADJUSTABLE	1							
3	1	172A54-76150	ELBOW, G3/8-RC1/4	1							
4	1	172480-76200	CONNECTER, DRAIN	1							
5	1	172633-76200	ADAPTER	1							
6	1	172312-76240	NIPPLE, 1/4-3/8	2							
7	1	172186-76370	CONNECTOR, 3/8X1/4	1							
9	2	24315-000140	O-RING, 1BP14.0	1							
10	1	23393-020000	JOINT, 90RGI-1/4	1							
11	1	23394-030000	JOINT, 45RGI-3/8	2							
12	1	172480-78170	HOSE, G606CE050	1							
13	1	172480-78470	HOSE, P406CC055	1							
14	1	172A54-78480	HOSE, G606BE052	1							
15	1	172480-78640	HOSE, G806YY056	1							
16	1	23001-016000	CLAMP, HOSE 16	2							



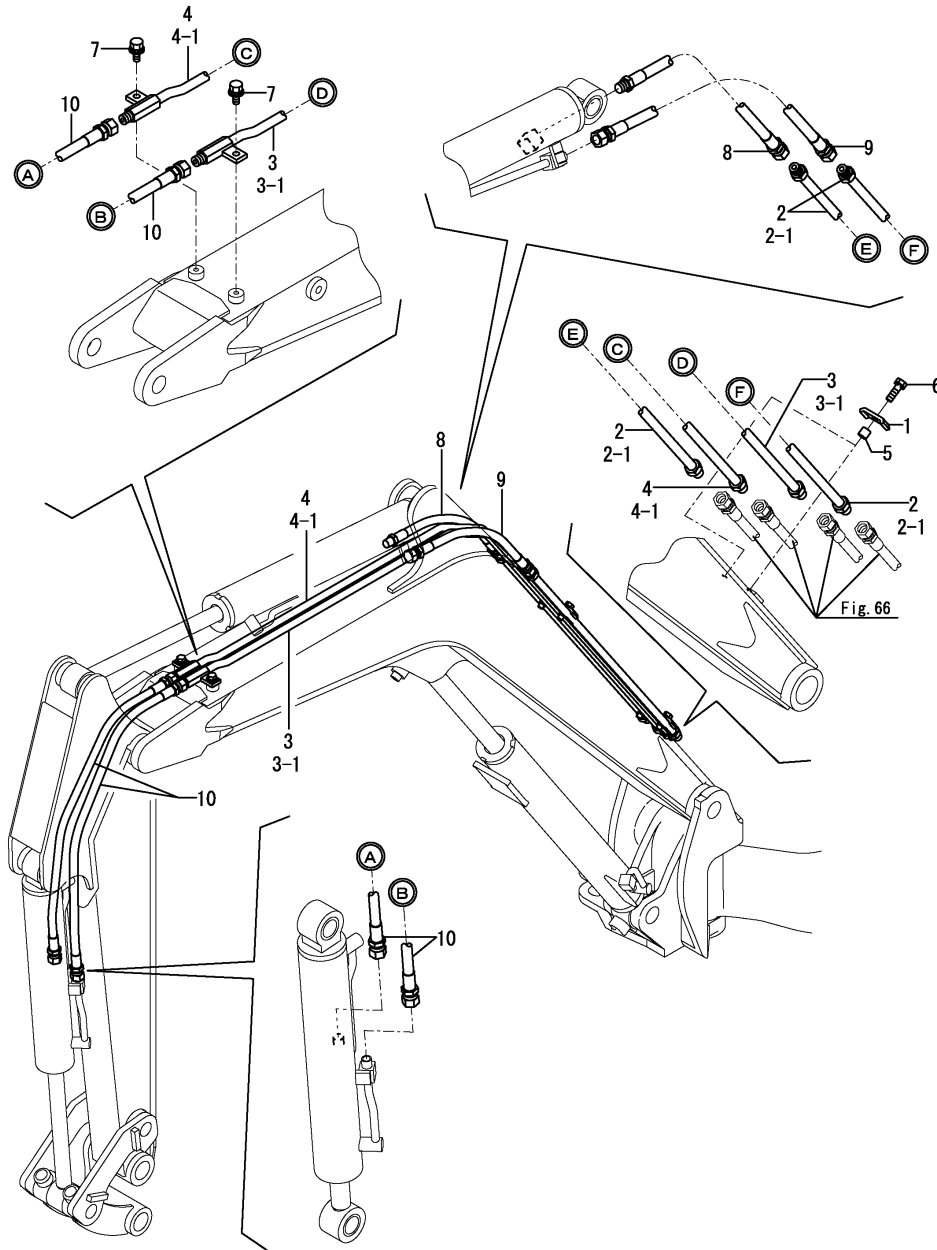
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172137-76100	ELBOW, PT PF1/4	1							
3	2	24315-000110	O-RING, 1BP11.0	1							
4	1	172145-76180	JOINT, 3/8	2							
7	1	172638-76190	CONNECTOR, PF1/4X3/8	1							
8	1	172446-76200	CONNECTOR ASSY, 3/8	1							
9	1	172312-76240	NIPPLE, 1/4-3/8	1							
10	1	172446-76300	BRACKET, PTO	1							
11	1	22217-160000	WASHER, SPRING 16	2							
12	1	23871-030000	PLUG, R03	2							
13	1	26013-100162	BOLT, M10X 16	2							
14	1	41851-000110	O-RING, P11.0 HNBR	1							
15	1	172480-78340	HOSE, H206EV091K	1							
16	1	172480-78460	HOSE, G606EE070K	1							
17	1	172446-78920	HOSE	1							



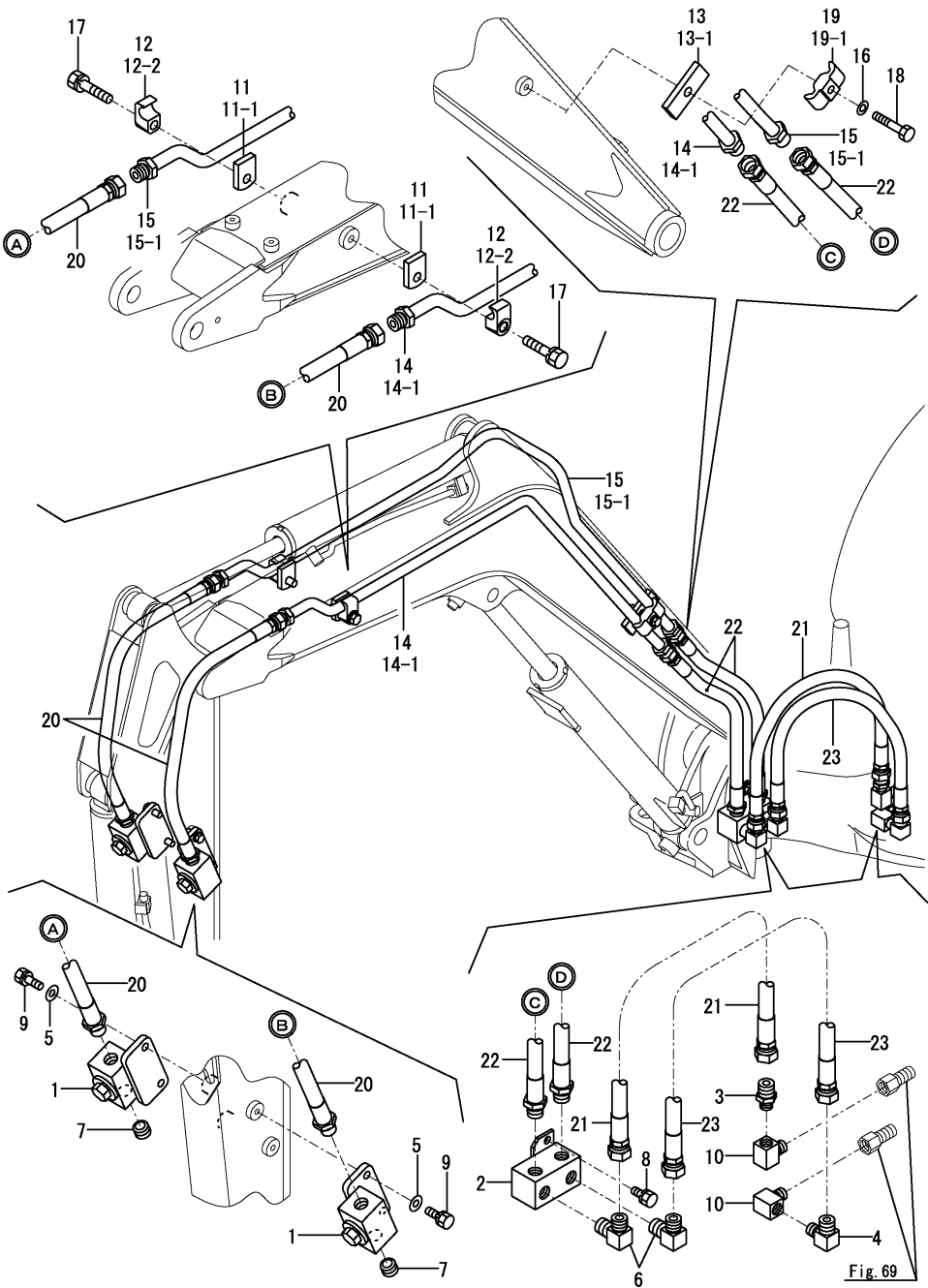
(A)=VIO12-2A P(KR)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172730-75141	ADAPTER, M/M C	4							
2	1	172147-76180	ELBOW, 90 1/4X3/8	4							
3	1	172447-76210	JOINT, G1/8-G1/4	2							
4	1	172162-76320	CONNECTOR, 3X1/4	1							
5	1	172447-76520	JOINT, 90RGI-1/4	2							
6	1	172447-76700	JOINT, G1/4-G1/8	2							
7	1	23391-020000	JOINT, RGI-1/4	2							
8	1	23394-020000	JOINT, 45RGI-1/4	4							
9	1	24315-000080	O-RING, 1BP8.0	2							
10	1	41851-000110	O-RING, P11.0 HNBR	2							
11	1	41851-000140	O-RING, P 14.0 HNBR	4							
12	1	172480-78500	HOSE, P205BD072W	2							
13	1	172480-78520	HOSE, P205BB069W	2							
14	1	172446-78550	HOSE, P204BD082W	2							
15	1	172480-78560	HOSE, P202BB070W	2							
16	1	172480-78580	HOSE, F204CX054W	2							
17	2	172455-79740	NUT, LOCK 1/4	2							
18	1	172480-78600	HOSE, F204BB044W	1							
19	1	172480-78610	HOSE, F204BB056W	1							
20	1	172480-78620	HOSE, F204BC049W	2							



No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	172110-76170	PLATE	4							
2	1	172447-76400-Y	TUBE ASSY, ARM	2							
2-1	1	172447-76400-3	TUBE ASSY, ARM	2							S
(A=M22344)											
3	1	172447-76450-Y	TUBE ASSY, BUCKET L	1							
3-1	1	172447-76450-3	TUBE ASSY, BUCKET L	1							S
(A=M22344)											
4	1	172447-76500-Y	TUBE ASSY, BUCKET R	1							
4-1	1	172447-76500-3	TUBE ASSY, BUCKET R	1							S
(A=M22344)											
5	1	172137-76580	COLLAR, 9X11	4							
6	1	26013-080252	BOLT, M8X 25	4							
7	1	26014-080162	BOLT, M8X 16	2							
8	1	172447-78260	HOSE, P204AB034 K	1							
9	1	172447-78270	HOSE, P204BB034 K	1							
10	1	172480-78280	HOSE, F204BB064W	2							

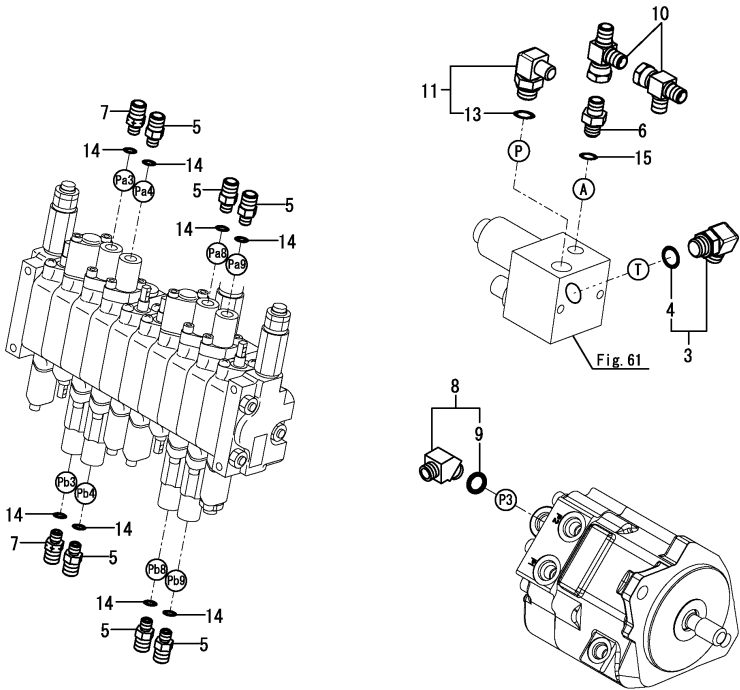
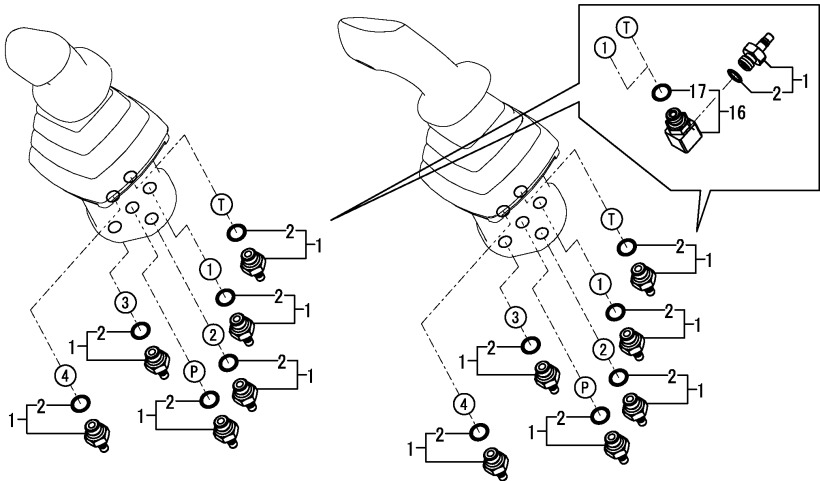


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172183-74822	VALVE ASSY, STOP 08	2							
2	1	172449-76650	JOINT ASSY, 1/2	1							
3	1	172141-76940	ADAPTER, 1/2-3/8	1							
4	1	172141-76990	ELBOW, 90 1/2-3/8	1							
5	1	22117-100000	WASHER, 10	4							
6	1	23393-040000	JOINT, 90RGI-1/2	2							
7	1	23871-040000	PLUG, R04	2							
8	1	26013-100202	BOLT, M10X 20	2							
9	1	26013-100252	BOLT, M10X 25	4							
10	1	933166-24240	ELBOW, SWIVEL JOINT	2							
11	1	172183-76250-Y	PLATE, SPACER	2							
11-1	1	172183-76250-3	PLATE, SPACER	2							S
(A=M22344)											
12	1	172175-76491	CLAMP, 17.3	2							
12-1	1	172175-76492	CLAMP, 17.3	2							R
(A=M20992)											
12-2	1	172175-76492-3	CLAMP, 17.3	2							S
(A=M22344)											
12-3	1	172175-76493-3	CLAMP, 17.3	2							R
(A=M24043)											
13	1	172175-76590-Y	PLATE, SPACER	1							
13-1	1	172175-76590-6	PLATE, SPACER	1							S
(A=M22344)											
14	1	172480-76600-Y	TUBE ASSY, PTO L	1							
14-1	1	172480-76600-3	TUBE ASSY, L PTO	1							S
(A=M22344)											
15	1	172480-76620-Y	TUBE ASSY, PTO R	1							
15-1	1	172480-76620-3	TUBE ASSY, R PTO	1							S
(A=M22344)											
16	1	22217-100000	WASHER, SPRING 10	1							
17	1	26014-120552	BOLT, M12X 55	2							
18	1	26116-100552	BOLT, M10X 55 PLATED	1							
19	1	933155-09670-Y	CLAMP, PIPE	1							
19-1	1	933155-09670-9	CLAMP, H.PRESS PIPE	1							S
(A=M22344)											
20	1	172A64-78590	HOSE, H208AB068W	2							
21	1	172446-78810	HOSE, H208BB075K	1							
22	1	172462-78920	HOSE, H208AB051K	2							
23	1	172462-78930	HOSE, H208BB081K	1							

Fig.73. CONTROL PIPING(FITTING)

(A)=VIO12-2A P(KR)
(B)=
(C)=

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

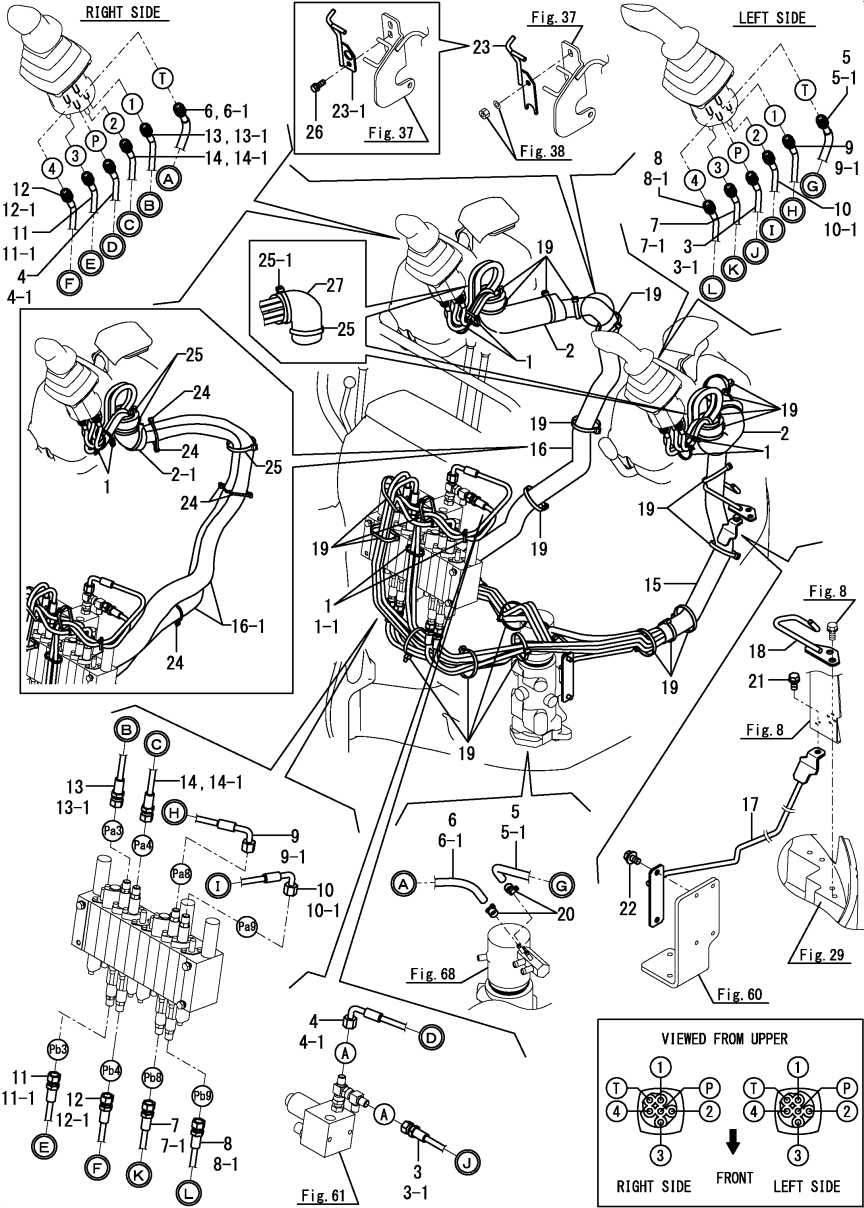


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172B58-76020	CONNECTOR, 1/4 QUICK	12							
2	2	41851-000110	O-RING, P11.0 HNBR	12							
3	1	172142-76181	JOINT, 90-3/8	1							
4	2	24315-000140	O-RING, 1BP14.0	1							
5	1	172447-76210	JOINT, G1/8-G1/4	6							
6	1	172455-76220	CONNECTOR, PF1/4	1							
7	1	172480-76230	CONNECTOR, 0.8	2							
8	1	172828-76340	CONNECTOR ASSY	1							
9	2	24315-000140	O-RING, 1BP14.0	1							
10	1	172B03-76620	CONNECTOR, 3-G1/4	2							
11	1	172141-76920	CONNECTOR ASSY	1							
13	2	24315-000140	O-RING, 1BP14.0	1							
14	1	24315-000080	O-RING, 1BP8.0	8							
15	1	41851-000110	O-RING, P11.0 HNBR	1							
16	1	172B58-76100	ELBOW,G1/4	4						W	1
(A=M21651)											
17	2	24319-000110	PACKING,HNBR-90 P 11	4						W	1
(A=M21651)											

Remarks

(1)Interchangeable with a set of No.3-1, 7-1, 8-1, 12-1, 19-1, 29, 30, 31 and 32 on Fig.26 , No.16 and 17 on Fig.73 and No.1-1, 3-1, 4-1, 5-1, 6-1, 7-1, 8-1, 9-1, 10-1, 11-1, 12-1, 13-1, 14-1, 25-1 and 27 on Fig.74.

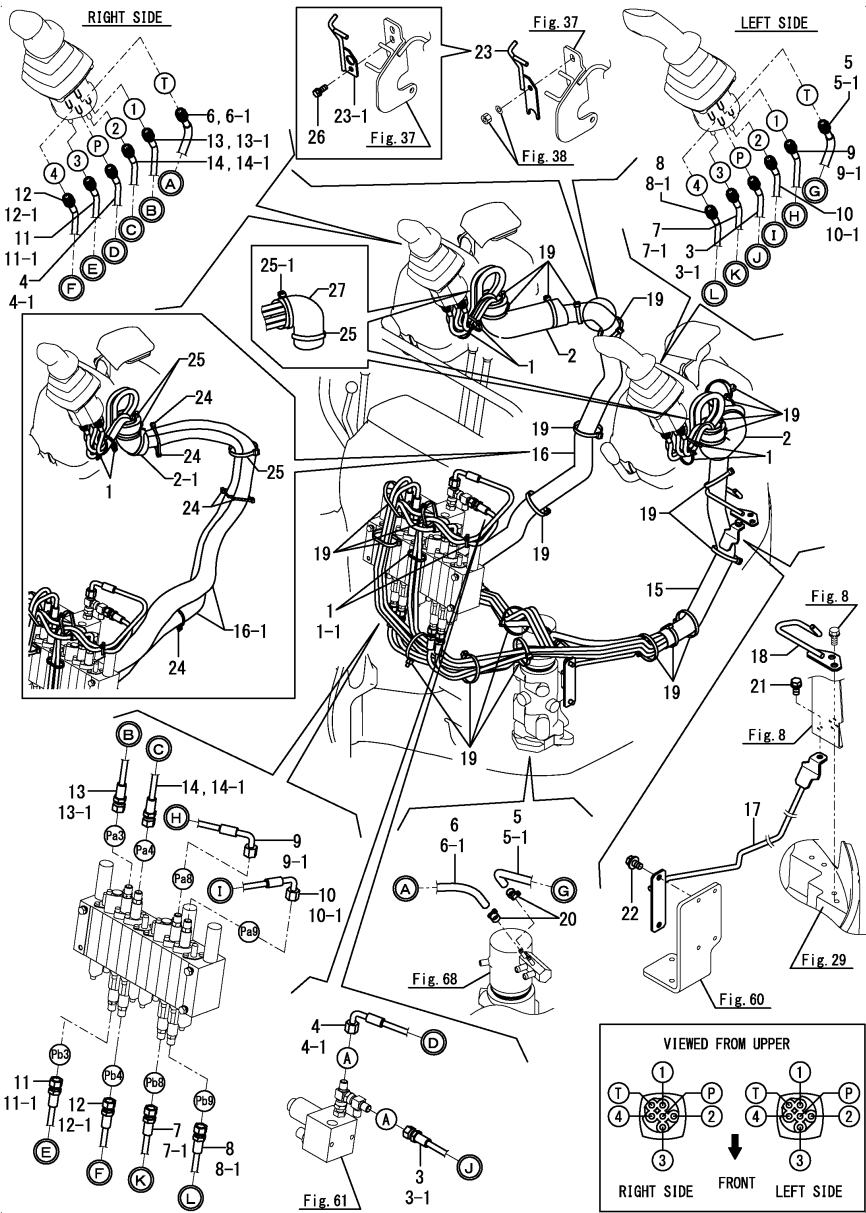
Fig.74. CONTROL PIPING(PUMP - CONTROL VALVE - RETURN)



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172126-11510	BAND, BINDING 300	8							
1-1	1	172126-11510	BAND, BINDING 300	2						K	1
(A=M21651)											
1-2	1	172126-11510	BAND, BINDING 300	4						K	
(A=M21954)											
2	1	172458-78571	SPONGE, HOSE	2							
2-1	1	172458-63641	SPONGE, HOSE 120	2						S	
(A=M20729)											
3	1	172B58-78680	HOSE, H603BT268S	1							
3-1	1	172B58-78681	HOSE, H603BT266S	1						S	1
(A=M21651)											
3-2	1	172B58-78682	HOSE, H603BT277S	1						N	
(A=M21703)											
4	1	172B58-78690	HOSE, H603CT314S	1							
4-1	1	172B58-78691	HOSE, H603CT312S	1						S	1
(A=M21651)											
4-2	1	172B58-78692	HOSE, H603CT323S	1						N	
(A=M21703)											
5	1	172B58-78700	HOSE, H604TY178	1							
5-1	1	172B58-78701	HOSE, H604TY170	1						S	1
(A=M21651)											
5-2	1	172B58-78702	HOSE, H604TY175	1						N	
(A=M21703)											
6	1	172B58-78710	HOSE, H604TY212	1							
6-1	1	172B58-78711	HOSE, H604TY204S	1						S	1
(A=M21651)											
6-2	1	172B58-78712	HOSE, H604TY209	1						N	
(A=M21703)											
7	1	172B58-78730	HOSE, H603BT219	1							
7-1	1	172B58-78731	HOSE, H603BT222K	1						S	1
(A=M21651)											
7-2	1	172B58-78732	HOSE, H603BT225K	1						N	
(A=M21703)											
8	1	172B58-78740	HOSE, H603BT215S	1							
8-1	1	172B58-78741	HOSE, H603BT206	1						S	1
(A=M21651)											
8-2	1	172B58-78742	HOSE, H603BT217	1						N	
(A=M21703)											
9	1	172B58-78750	HOSE, H603CT265	1							
9-1	1	172B58-78751	HOSE, H603CT261	1						S	1
(A=M21651)											
9-2	1	172B58-78752	HOSE, H603CT263	1						N	
(A=M21703)											
10	1	172B58-78760	HOSE, H603CT271	1							
10-1	1	172B58-78761	HOSE, H603CT273	1						S	1
(A=M21651)											
10-2	1	172B58-78762	HOSE, H603CT277K	1						N	
(A=M21703)											
11	1	172B58-78770	HOSE, H603BT270	1							
11-1	1	172B58-78771	HOSE, H603BT273K	1						S	1
(A=M21651)											

Remarks
* Fitting(control valve, remote control valve) is shown in Fig.73.
(1)Interchangeable with a set of No.3-1, 7-1, 8-1, 12-1, 19-1, 29, 30, 31 and 32 on Fig.26 , No.16 and 17 on Fig.73 and No.1-1, 3-1, 4-1, 5-1, 6-1, 7-1, 8-1, 9-1, 10-1, 11-1, 12-1, 13-1, 14-1, 25-1 and 27 on Fig.74.

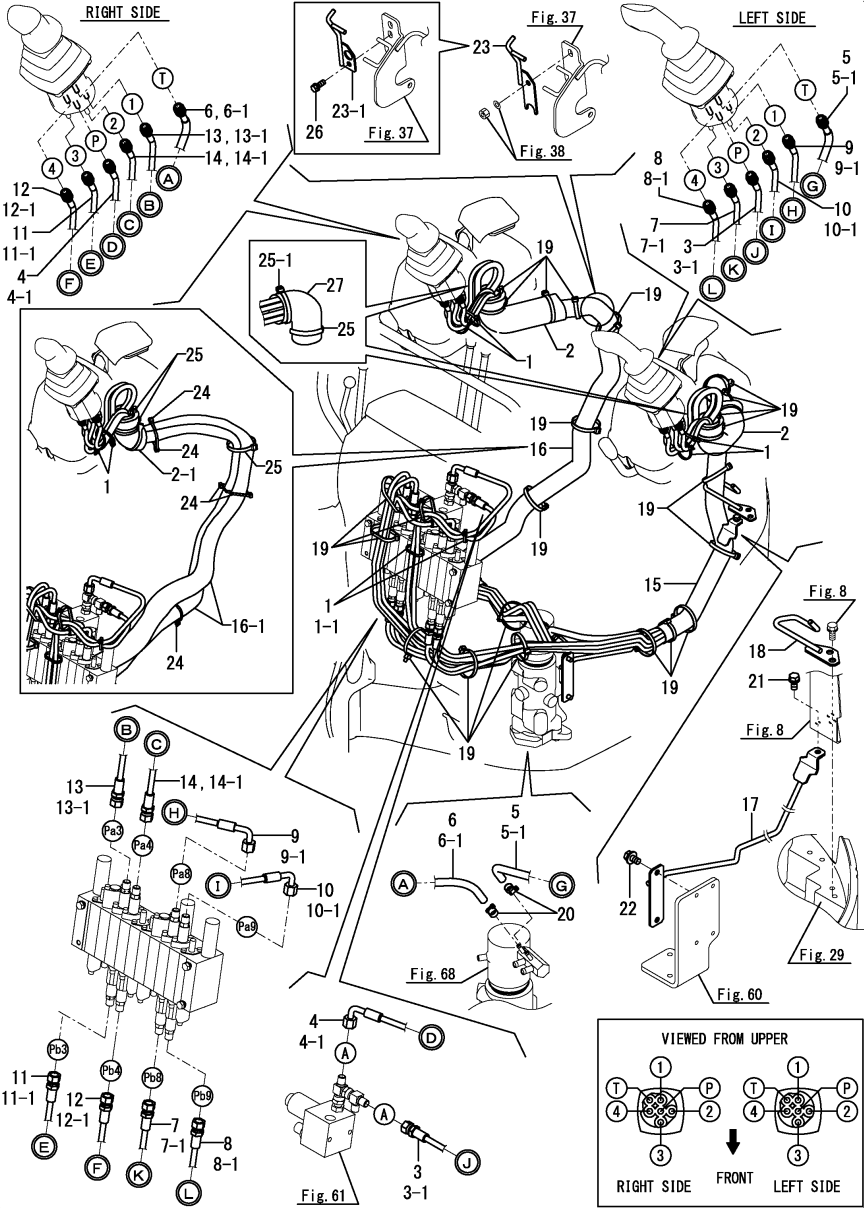
Fig.74. CONTROL PIPING(PUMP - CONTROL VALVE - RETURN)



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
11-2	1	172B58-78772 (A=M21703)	HOSE, H603BT276K	1						N	
12	1	172B58-78780	HOSE, H603BT272S	1							
12-1	1	172B58-78781 (A=M21651)	HOSE, H603BT263	1						S	1
12-2	1	172B58-78782 (A=M21703)	HOSE, H603BT274	1						N	
13	1	172B58-78790	HOSE, H603BT310	1							
13-1	1	172B58-78791 (A=M21651)	HOSE, H603BT306	1						S	1
13-2	1	172B58-78792 (A=M21703)	HOSE, H603BT308	1						N	
14	1	172B58-78800	HOSE, H603BT307	1							
14-1	1	172B58-78801 (A=M21651)	HOSE, H603BT309	1						S	1
14-2	1	172B58-78802 (A=M21703)	HOSE, H603BT313K	1						N	
15	1	172B58-79010	COVER, HOSE 57-1100	1							
15-1	1	172B58-79011 (A=M20729)	COVER, HOSE 57-1200	1						N	
16	1	172B58-79020	COVER, HOSE 57-1500	1							
16-1	1	172B58-79030 (A=M20729)	COVER, HOSE 40-1500	2						S	
17	1	172B58-79200	GUIDE ASSY, HOSE	1							
18	1	172B58-79300	GUIDE ASSY, HOSE	1							
19	1	172122-79890	CLAMP, HOSE 350	29							
19-1	1	172122-79890	CLAMP, HOSE 350	36						K	
19-2	1	172122-79890 (A=M20634) (A=M20729)	CLAMP, HOSE 350	16						K	
19-3	1	172122-79890 (A=M21954)	CLAMP, HOSE 350	18						K	
20	1	23000-013000	CLAMP, 13	2							
21	1	26013-080162	BOLT, M8X 16	1							
22	1	26014-080162	BOLT, M8X 16	2							
23	1	172B58-79400	GUIDE ASSY, HOSE C	1						W	
23-1	1	172B58-79500 (A=M20634) (A=M20729)	GUIDE ASSY, HOSE D	1						S	
24	1	172126-11510 (A=M20729)	BAND, BINDING 300	8						W	
24-1	1	172126-11510 (A=M21954)	BAND, BINDING 300	12						K	
25	1	172122-79890 (A=M20729)	CLAMP, HOSE 350	10						W	
25-1	1	172122-79890 (A=M21651)	CLAMP, HOSE 350	12						K	1
25-2	1	172122-79890 (A=M21954)	CLAMP, HOSE 350	8						K	
26	1	26013-100252 (A=M20729)	BOLT, M10X 25	1						W	

Remarks
* Fitting(control valve, remote control valve) is shown in Fig.73.
(1)Interchangeable with a set of No.3-1, 7-1, 8-1, 12-1, 19-1, 29, 30, 31 and 32 on Fig.26 , No.16 and 17 on Fig.73 and No.1-1, 3-1, 4-1, 5-1, 6-1, 7-1, 8-1, 9-1, 10-1, 11-1, 12-1, 13-1, 14-1, 25-1 and 27 on Fig.74.

Fig.74. CONTROL PIPING(PUMP - CONTROL VALVE - RETURN)



(A)=VIO12-2A P(KR)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
27	1	172B58-79040 (A=M21651)	COVER, HOSE 57-80	2						W	1

Remarks
* Fitting(control valve, remote control valve) is shown in Fig.73.
(1)Interchangeable with a set of No.3-1, 7-1, 8-1, 12-1, 19-1, 29, 30, 31 and 32 on Fig.26 , No.16 and 17 on Fig.73 and No.1-1, 3-1, 4-1, 5-1, 6-1, 7-1, 8-1, 9-1, 10-1, 11-1, 12-1, 13-1, 14-1, 25-1 and 27 on Fig.74.

Fig.75. CONTROL PIPING(PUMP - CUT OFF VALVE - LOCK CYLINDER)

(A)=VIO12-2A P(KR)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172B58-78170	HOSE,P404CC094S	1							
2	1	172B58-78270	HOSE, F403CC028S	1							
3	1	172480-78670	HOSE, G806BY061	1							
4	1	172480-79240	HOSE, P404BC054	1							
5	1	23001-016000	CLAMP, HOSE 16	1							

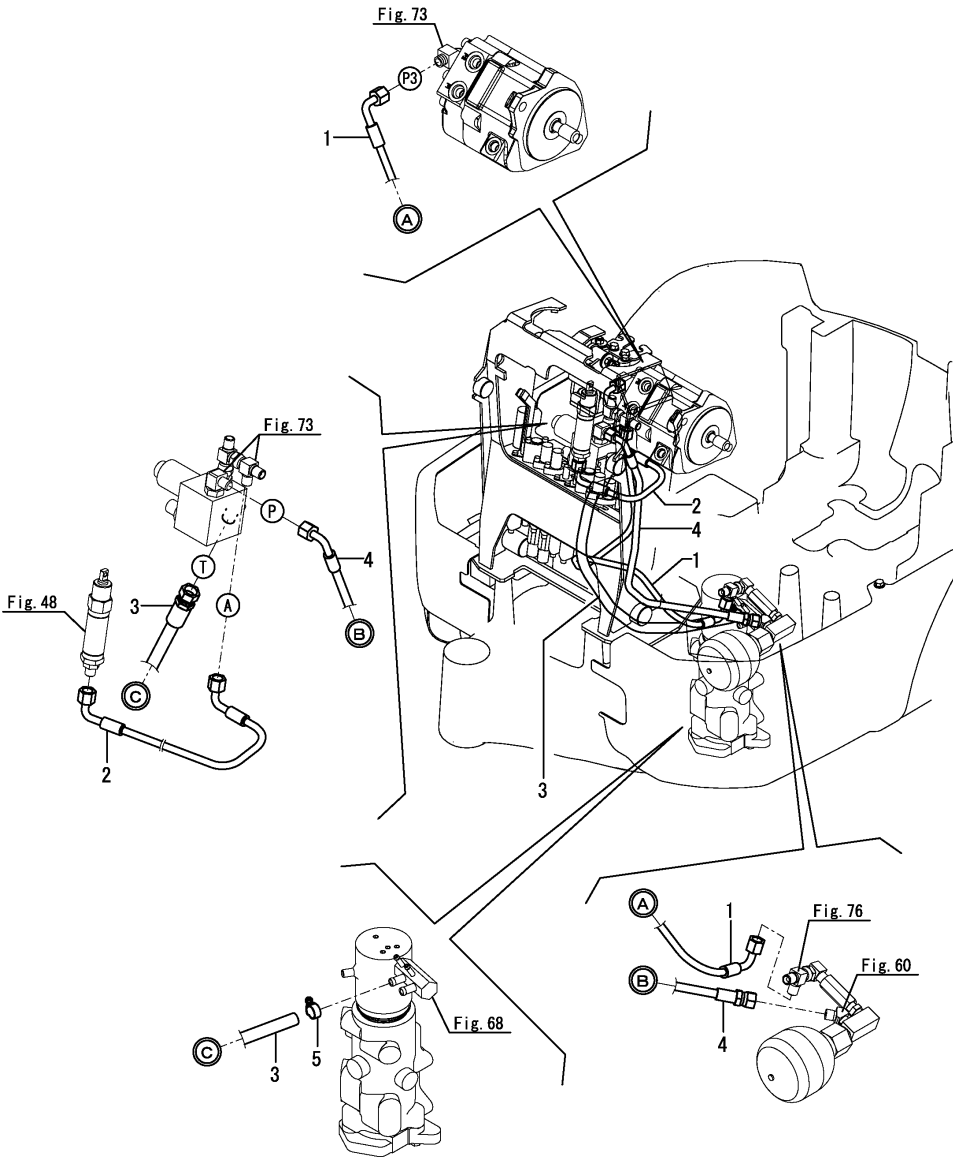
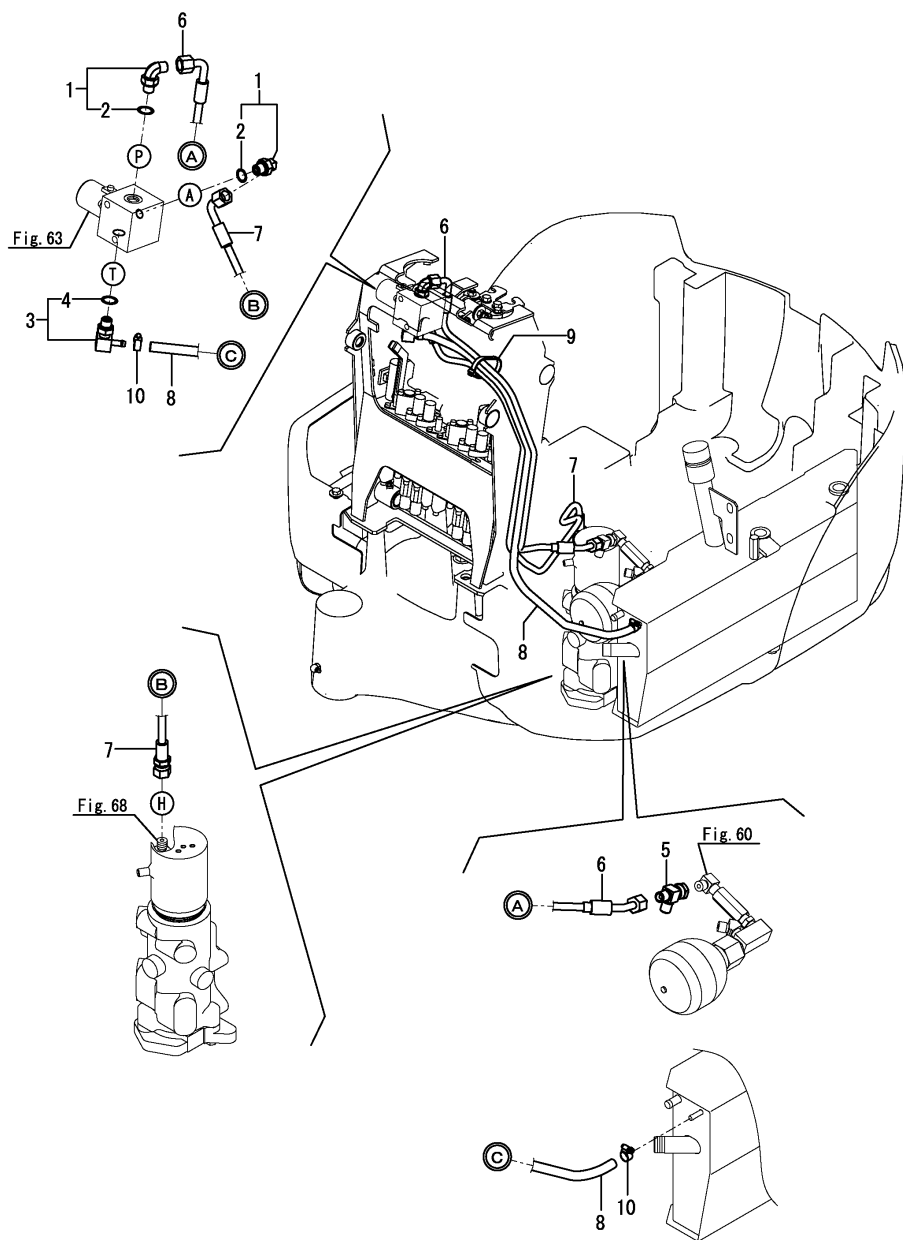
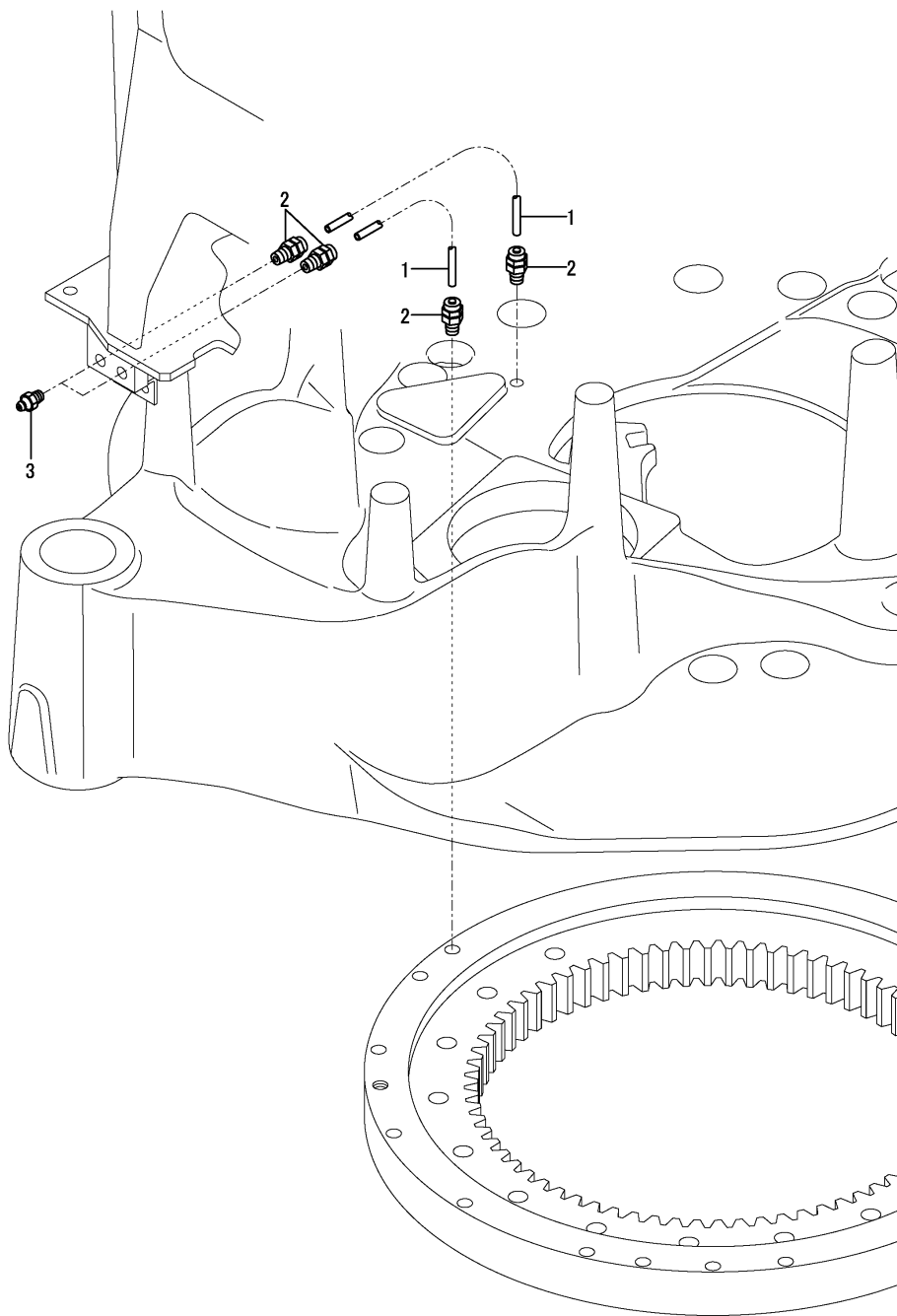


Fig.76. CONTROL PIPING(SOLENOID VALVE)



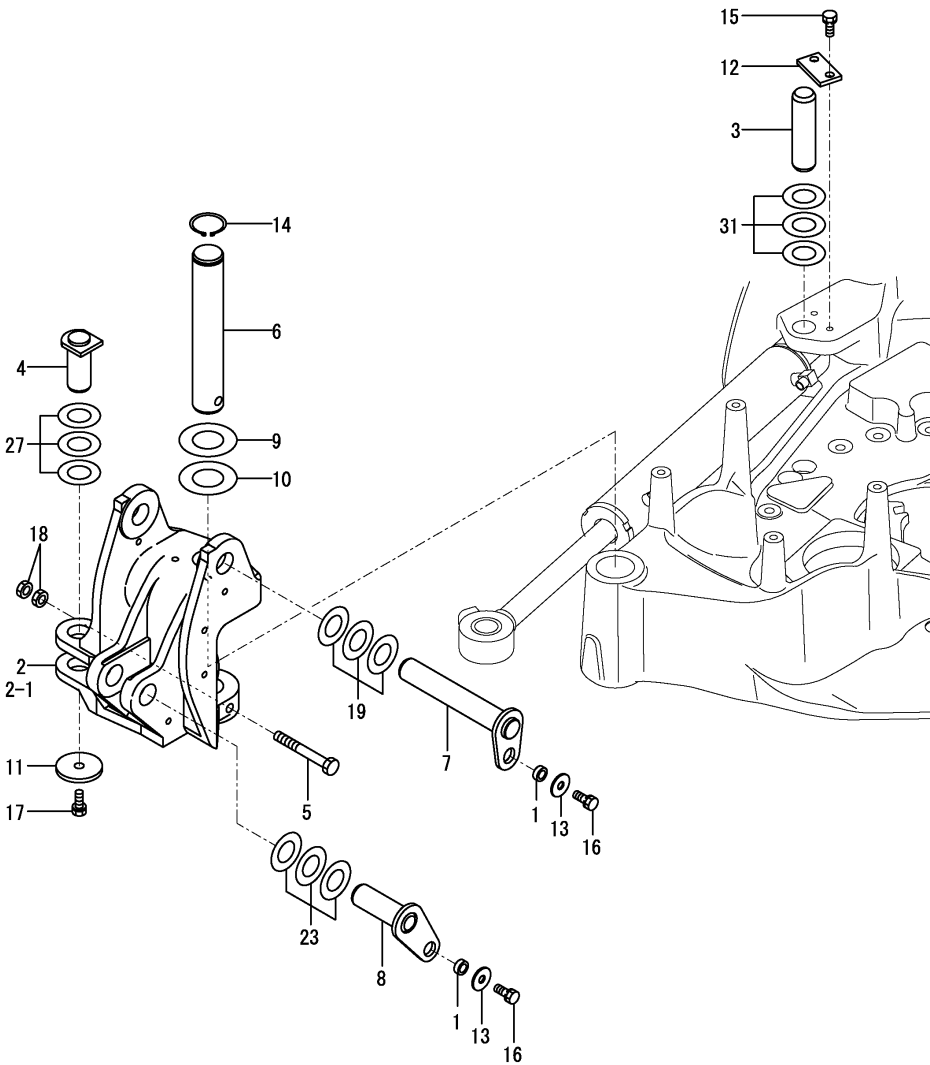
No.	Lev.	Parts No.	Description	(A)=VIO12-2A P(KR)		(D)=		(E)=		I R
				(B)=	(C)=	(F)=				
				(A)	(B)	(C)	(D)	(E)	(F)	
1	1	172B03-76010	ELBOW	2						
2	2	41851-000110	O-RING, P11.0 HNBR	2						
3	1	172458-76150	NIPPLE, ELBOW	1						
4	2	24315-000110	O-RING, 1BP11.0	1						
5	1	172B03-76620	CONNECTOR,3-G1/4	1						
6	1	172B58-78240	HOSE, F403CE083S	1						
7	1	172B58-78250	HOSE, F403BC107S	1						
8	1	172B58-78260	HOSE, G804YY092S	1						
9	1	172122-79890	CLAMP, HOSE 350	1						
10	1	23000-013000	CLAMP, 13	2						

Fig.77. GREASING



No.	Lev.	Parts No.	Description	(A)=VIO12-2A P(KR)	(B)=	(C)=	(D)=	(E)=	(F)=
				(A)	(B)	(C)	(D)	(E)	(F)
1	1	172480-77100	HOSE, P602YY046	2					
2	1	172141-77800	JOINT ASSY, GREASE	4					
3	1	24761-020000	NIPPLE, GREASE PT1/8	2					

Fig.78. BOOM BRACKET

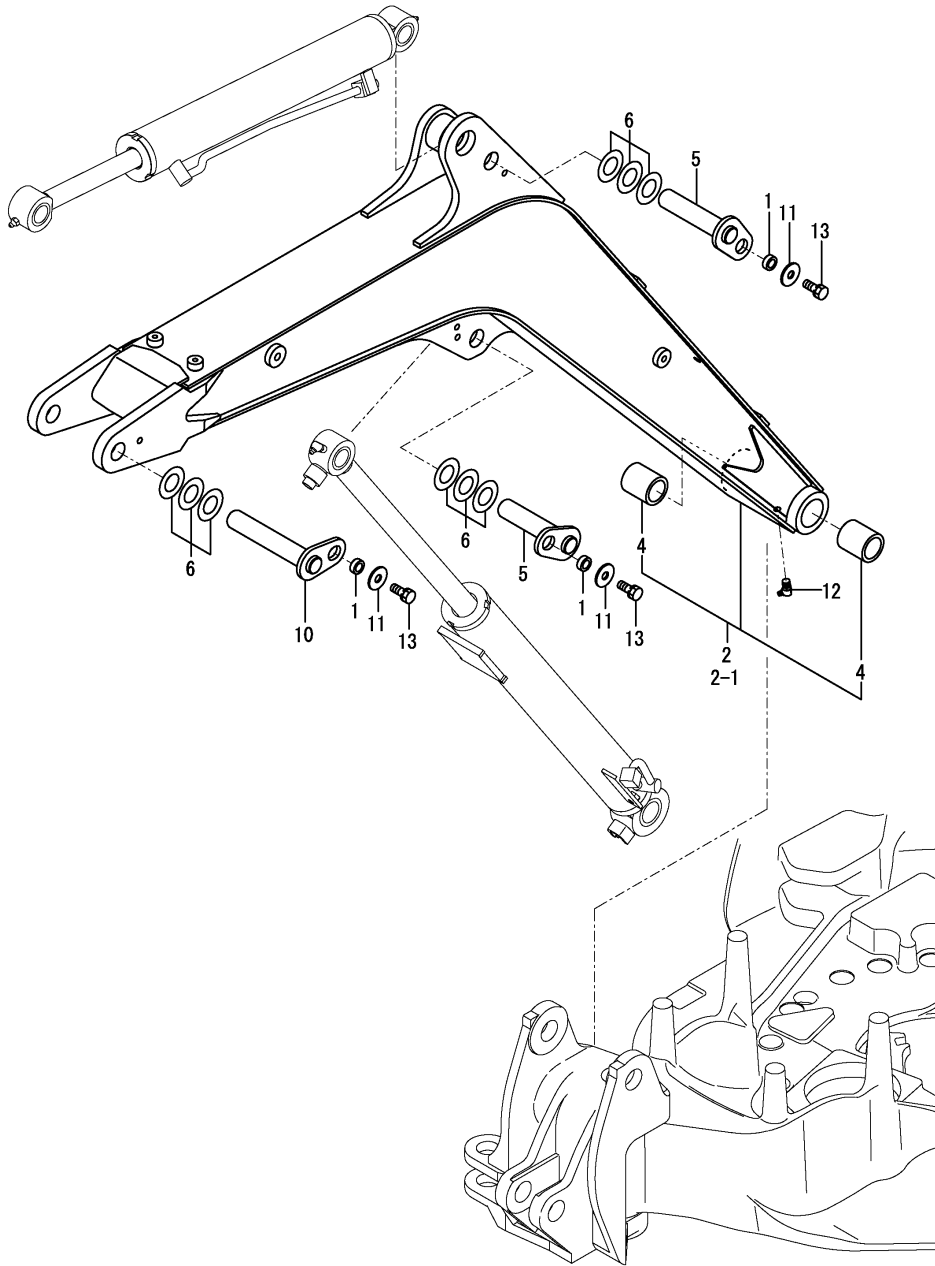


OCK50-M01480 Fig.78

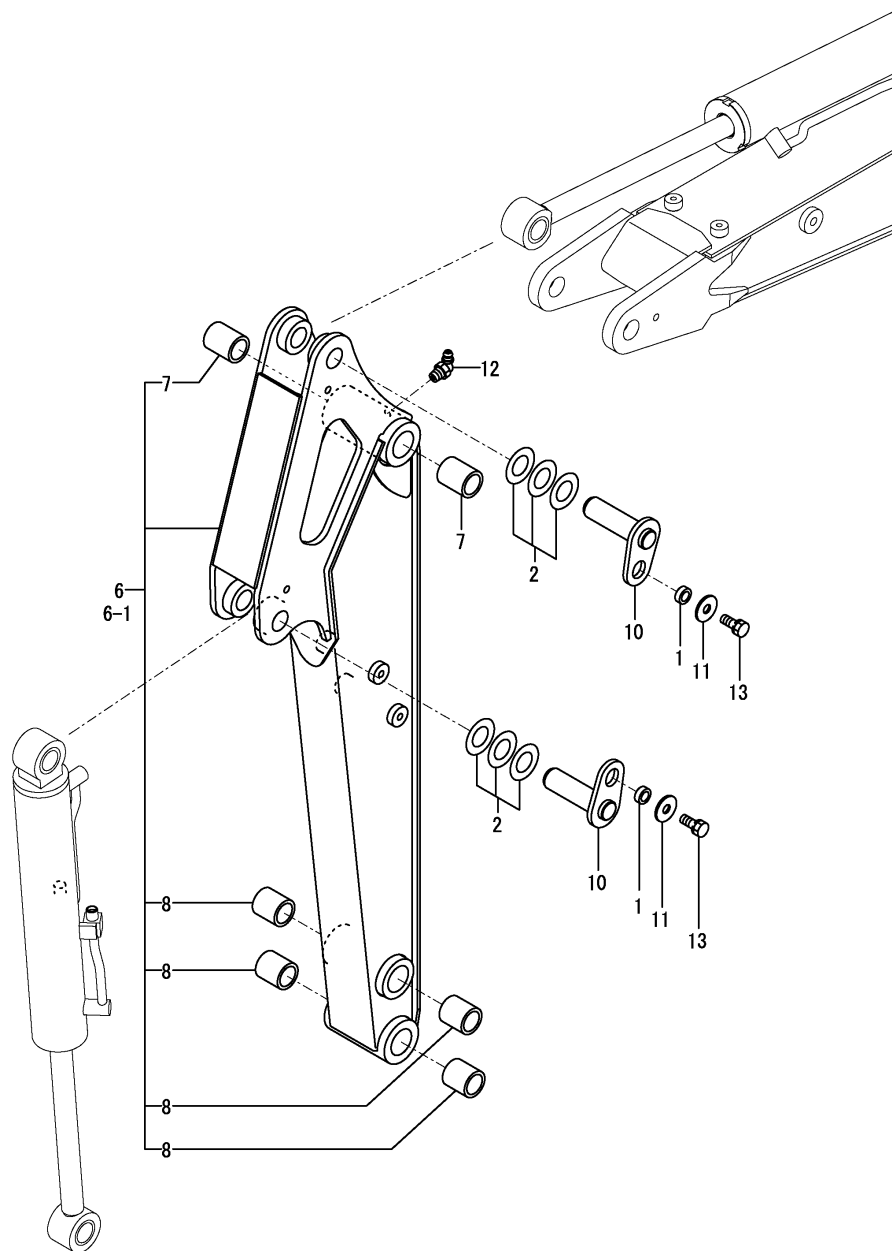
(A)=VIO12-2A P(KR)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	Q'ty (D) (E) (F)	I	R
1	1	172010-01640	SPACER	2					
2	1	172447-82300-Y	BRACKET, BOOM	1					
2-1	1	172447-82300-3	BRACKET, BOOM	1					S
(A=M22344)									
3	1	172A54-82310	PIN, 30X117	1					
4	1	172A54-82320	PIN ASSY, 30X68	1					
5	1	172157-82340	BOLT, 12X95	1					
5-1	1	26076-120952	BOLT, 10.912X 95	1					R
(A=*2024.11.)									
6	1	172A54-82340	PIN, 40X242.5	1					
7	1	172A54-82350	PIN ASSY, 30X183	1					
8	1	172A54-82380	PIN ASSY, 30X86	1					
9	1	172165-82580	SHIM, 40X75X0.5	1					
10	1	172165-82590	SHIM, 40X75X1.2	1					
11	1	172146-82910	SPACER	1					
12	1	172149-83190-1	PLATE, LOCK	1					
13	1	22157-100000	WASHER, 10	2					
14	1	22242-000400	RING, 40	1					
15	1	26013-100252	BOLT, M10X 25	2					
16	1	26013-100252	BOLT, M10X 25	2					
17	1	26013-120252	BOLT, M12X 25	1					
18	1	26756-120002	NUT, LOCK M12	2					
19	1	933160-06711	SHIM ASSY, 30	1					
23	1	933160-06711	SHIM ASSY, 30	1					
27	1	933160-06711	SHIM ASSY, 30	1					
31	1	933160-06711	SHIM ASSY, 30	1					



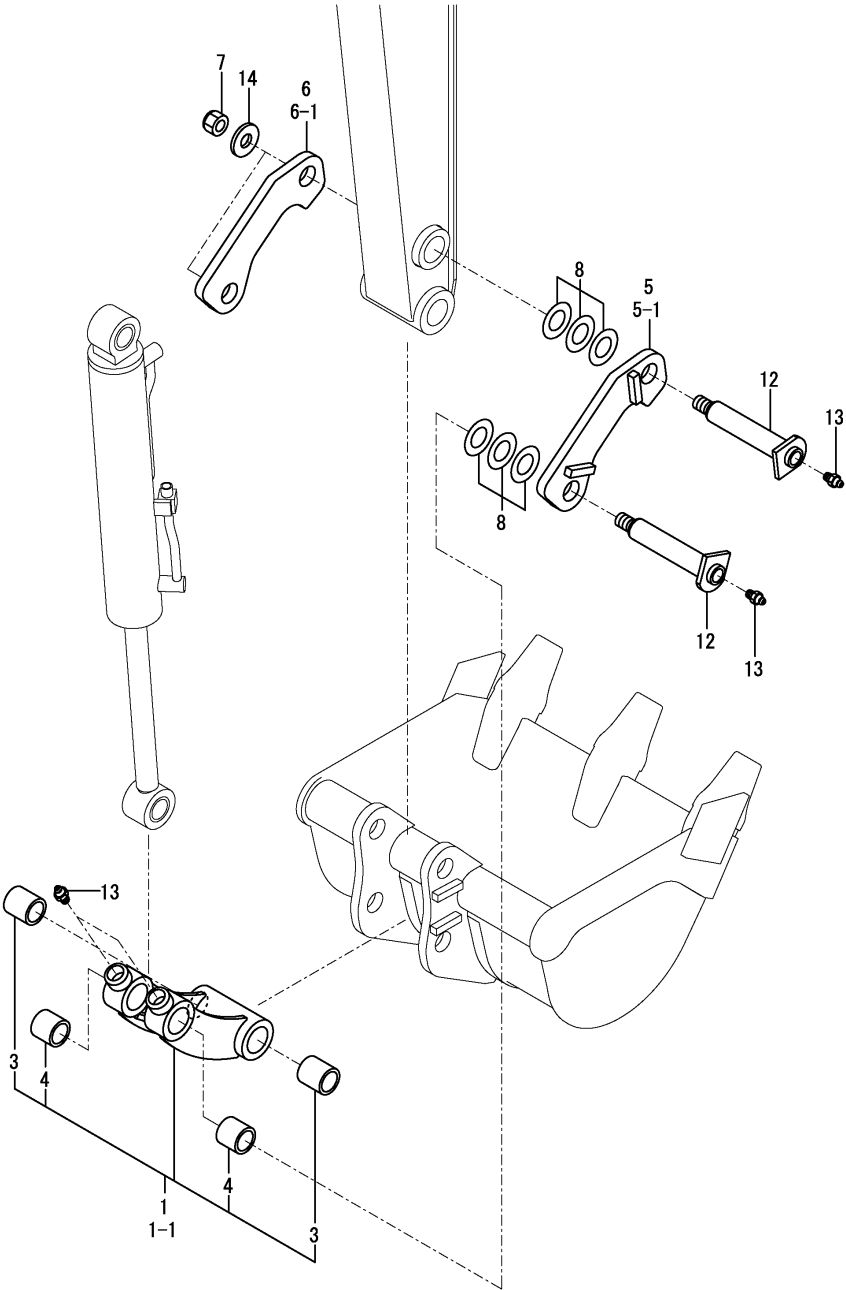
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172010-01640	SPACER	3							
2	1	172480-81090-Y	BOOM ASSY	1							
2-1	1	172480-81090-3	BOOM ASSY	1							S
		(A=M22344)									
4	2	172137-81300	BUSH, PIN 30 45	2							
5	1	172A54-81320	PIN ASSY, 25X111	2							
6	1	172156-81400	SHIM ASSY, 25-45	3							
10	1	172A20-81940	PIN ASSY, 25X140	1							
11	1	22157-100000	WASHER, 10	3							
12	1	24761-050000	NIPPLE, GREASE C	1							
13	1	26013-100252	BOLT, M10X 25	3							



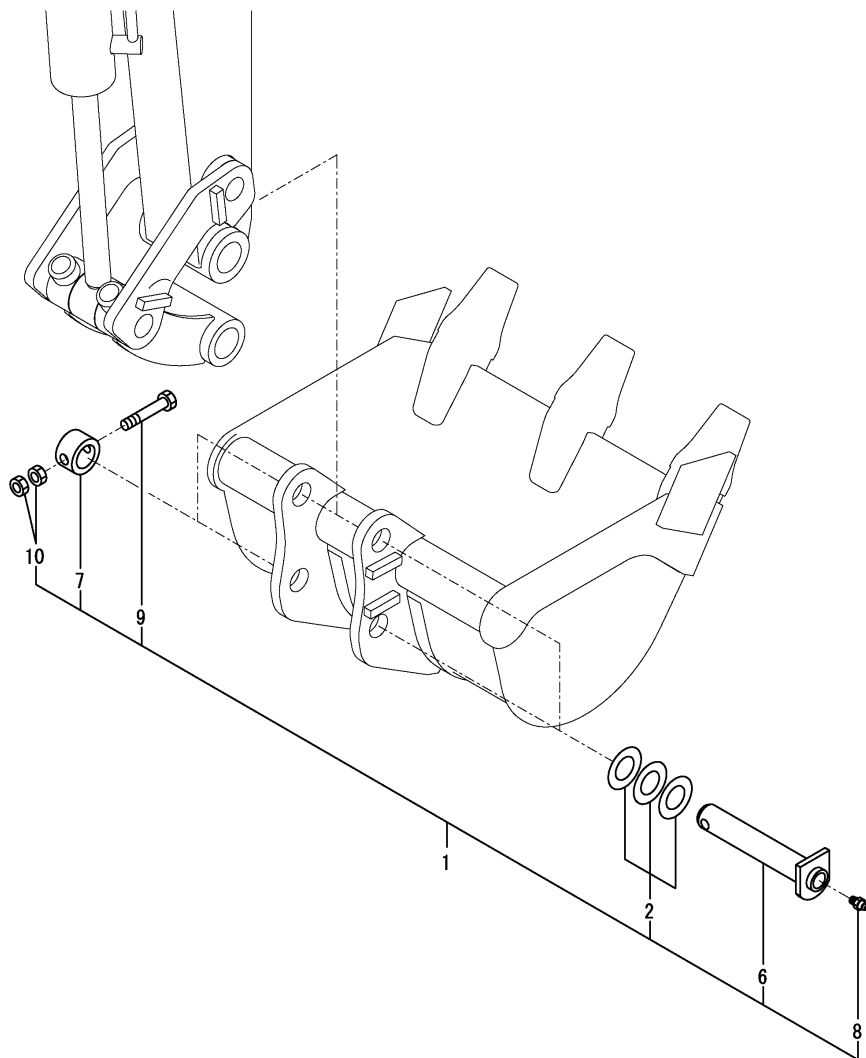
No.	Lev.	Parts No.	Description	(A)=VIO12-2A P(KR)		(D)=		(E)=		I	R
				(B)=	(C)=	(C)	(D)	(E)	(F)		
1	1	172010-01640	SPACER			2					
2	1	172156-81400	SHIM ASSY, 25-45			2					
6	1	172480-81600-Y	ARM ASSY, 830			1					
6-1	1	172480-81600-3	ARM,830 ASSY			1					S
		(A=M22344)									
7	2	172155-54220	BUSH, 25-33			2					
8	2	172157-81360	BUSH, PIN 25 35 A			4					
10	1	172A20-81960	PIN ASSY, 25X83			2					
11	1	22157-100000	WASHER, 10			2					
12	1	24761-050000	NIPPLE, GREASE C			1					
13	1	26013-100252	BOLT, M10X 25			2					

(A)=VIO12-2A P(KR)
(B)=
(C)=

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

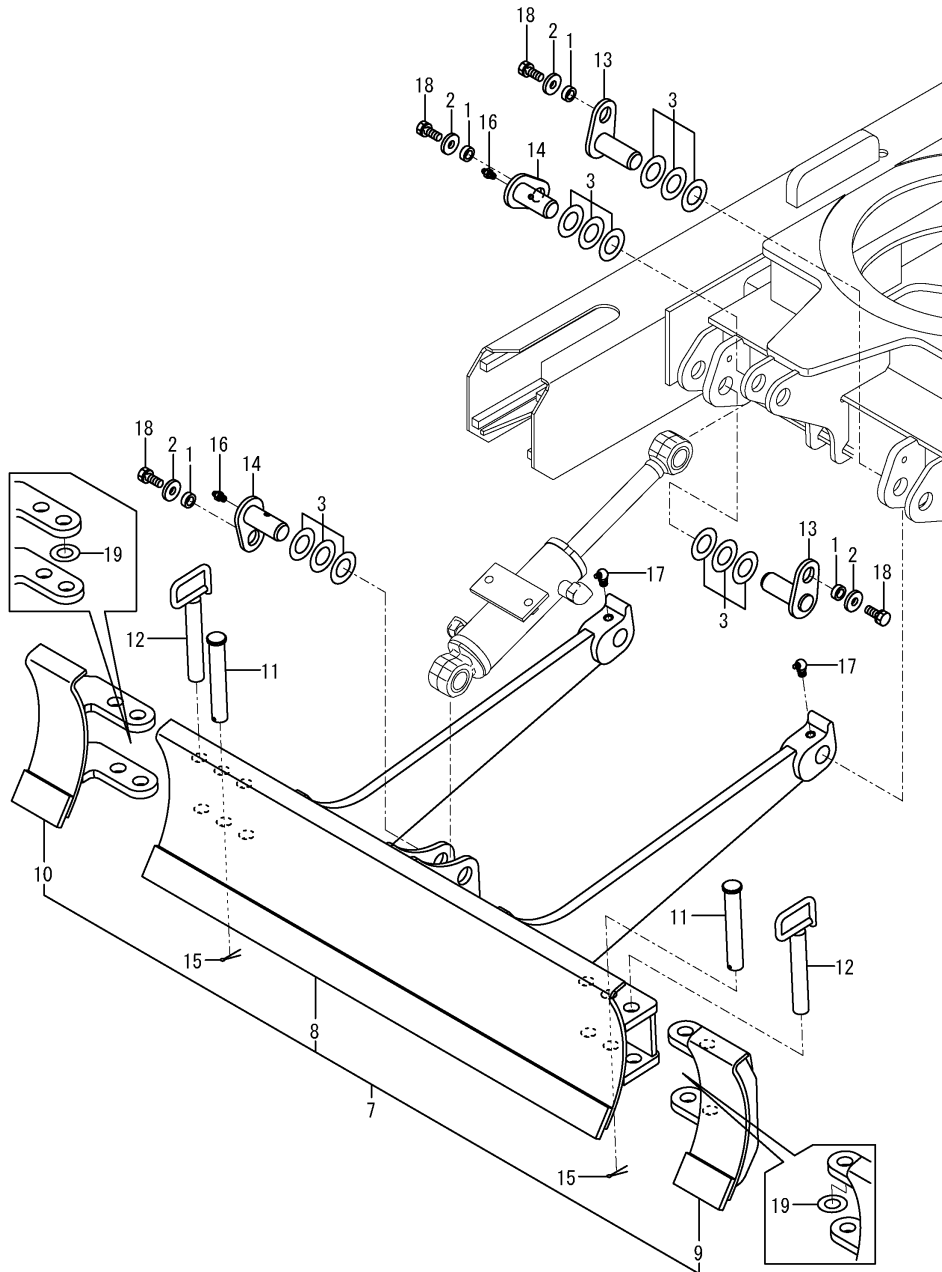


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172157-81302-Y	LINK ASSY, BUCKET	1							
1-1	1	172157-81302-5	LINK ASSY, BUCKET	1						S	
(A=M22344)											
3	2	172157-81360	BUSH, PIN 25 35 A	2							
4	2	172157-81370	BUSH, PIN 25 35	2							
5	1	172157-81341-Y	ARM ASSY, BUCKET L	1							
5-1	1	172157-81341-6	ARM ASSY, BUCKET L	1						S	
(A=M22344)											
6	1	172157-81351-Y	ARM, BUCKET	1							
6-1	1	172157-81351-6	ARM, BUCKET	1						S	
(A=M22344)											
7	1	172137-81380	NUT, NYLON M16	2							
8	1	172156-81400	SHIM ASSY, 25-45	2							
12	1	172A54-81780	PIN ASSY, 25X121	2							
13	1	24761-020000	NIPPLE, GREASE PT1/8	4							
14	1	933147-08501	WASHER, WHEEL SHAFT	2							



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A54-81900	PIN KIT, BUCKET	2							
2	2	172156-81400	SHIM ASSY, 25-45	2							
6	2	172A54-81800	PIN ASSY, 25X133	2							
7	2	172186-81820	COLLAR, 25X38.1X22	2							
8	2	24761-020000	NIPPLE, GREASE PT1/8	2							
9	2	26116-100552	BOLT, M10X 55 PLATED	2							
10	2	26716-100002	NUT, M10	4							

Fig.83. BLADE



No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I R
1	1	172010-01640	SPACER	4						
2	1	172110-36010	COLLAR	4						
3	1	172156-81400	SHIM ASSY, 25-45	4						
7	1	172480-94051	BLADE ASSY	1						
8	2	172480-94102	BLADE ASSY	1						
9	2	172480-94223	BLADE ASSY, SIDE L	1						
10	2	172480-94233	BLADE ASSY, SIDE R	1						
11	1	172480-94290	PIN, 20X123	2						
12	1	172480-94300	PIN ASSY, 20	2						
13	1	172A54-94350	PIN ASSY, 25X63	2						
14	1	172A54-94370	PIN ASSY, 25X59	2						
15	1	22417-400350	PIN, COTTER 4.0X35	2						
16	1	24761-020000	NIPPLE, GREASE PT1/8	2						
17	1	24761-040000	NIPPLE, GREASE B	2						
18	1	26013-100252	BOLT, M10X 25	4						
19	1	172155-81360	SHIM, 20X38X0.5	2						W

(A)=VIO12-2A P(KR)
(B)=
(C)=
(D)=
(E)=
(F)=

(A=M23732)

Parts No. Index

Parts No.	Fig. No.	Ref. No.
102103-55520	10	21
104200-55330	10	18
104200-55750	10	26
105027-12580	5	7
105425-01690	7	1
110250-55610	10	22
119225-52102	10	16
119230-77712	15	23
119247-77100	15	22
119650-77911	15	24
119655-12560	5	5
119655-12570	5	6
119808-12540	5	4
119810-55340	10	19
119810-55650	10	23
121257-55720	10	24
121257-55731	10	25
121450-44531	8	22
121468-44520	8	21
121470-44581	8	25
124450-44560	8	24
124701-11911	4	3
124766-59050	10	30
129052-55630	10	28
129053-55621	10	17
129107-55510	10	20
129211-77920	15	27
172010-01640	78	1
	79	1
	80	1
	83	1
172068-28490	22	1
		2
172110-36010	83	2
172110-76050	60	4
172110-76051	60	4 -1
		4 -3
172110-76170	71	1
172112-16650	13	16
		17
172113-12522	6	6
172116-46630	38	1
172116-76160	65	1
172122-37844	17	16
172122-47250	24	5
172122-79890	74	19
		19 -1
		19 -2
		19 -3
		25

Parts No.	Fig. No.	Ref. No.
172122-79890	74	25 -1
		25 -2
	76	9
172122-79930	15	3 D
		28
172123-76121	48	2
	66	4
	67	4
172124-46200	20	12
172125-03951	2	13
172126-11510	10	2
	13	19 -1
	14	1
	66	9
	74	1
		1 -1
		1 -2
		24
		24 -1
172126-16540	6	7
172126-73400	49	15
172137-03300	3	13
	85	12
172137-16560	8	19
		20
	11	8
		9
		10
	13	13
		14
	14	2
172137-37850	17	23
172137-70570	50	3
172137-70580	50	4
172137-74520	54	15
	55	11
		26
	56	24
	57	8
		19
	58	10
		22
172137-76100	66	1
	67	1
	69	1
172137-76580	71	5
172137-81300	79	4
172137-81380	81	7
172141-14620	10	11
172141-17150	15	12

Parts No.	Fig. No.	Ref. No.
172141-41370	20	3
		6
	25	3
		4
	26	4
		9
172141-72580	42	24
	45	13
172141-76920	73	11
172141-76940	72	3
172141-76990	72	4
172141-77260	50	32
172141-77800	77	2
172142-76181	65	2
	73	3
172142-78760	66	19
172145-76180	69	4
172146-12150	6	4
172146-68440	37	13
172146-82910	78	11
172147-76180	70	2
172148-73350	50	7
172149-17120	15	5
172149-17130	15	7
172149-17140	15	6
		8
172149-57610	30	3
172149-83190-1	78	12
172155-54220	80	7
172155-81360	83	19
172156-16110	11	2
172156-17401	15	16
172156-17420	15	18
172156-17430-7	15	19 -1
172156-17430-Y	15	19
172156-45800	23	13
172156-61320	6	9
172156-64420	35	9
172156-65690	38	6
172156-72410	44	18
	46	12
		15
172156-72770	42	18
	43	7
		10
	44	9
172156-73700	51	1
172156-73710	51	2
172156-76290	60	6
172156-81400	79	6

Parts No.	Fig. No.	Ref. No.
172156-81400	80	2
	81	8
	82	2
	83	3
172157-13160	7	6
172157-45630	24	1
172157-58830	31	2
172157-70090	49	2
172157-70240	49	21
172157-70450	49	31
172157-70630	54	9
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172B16-17190	15	24 -1
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	85	17
172B58-03470	1	5
	84	5
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172B58-08120	2	1
172B58-08130	3	1
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172B58-46102	26	3 -2
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172B58-46280	26	29
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172B58-46500	26	12
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172B58-46550	26	13
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23393-020000	60	7
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23394-020000	60	8
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26116-080162	11	13
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26116-080252	33	11
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26116-080454	20	15
26116-080804	22	17
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26757-080002	22	20
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26776-240002	48	3
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0CB10-M72600EN

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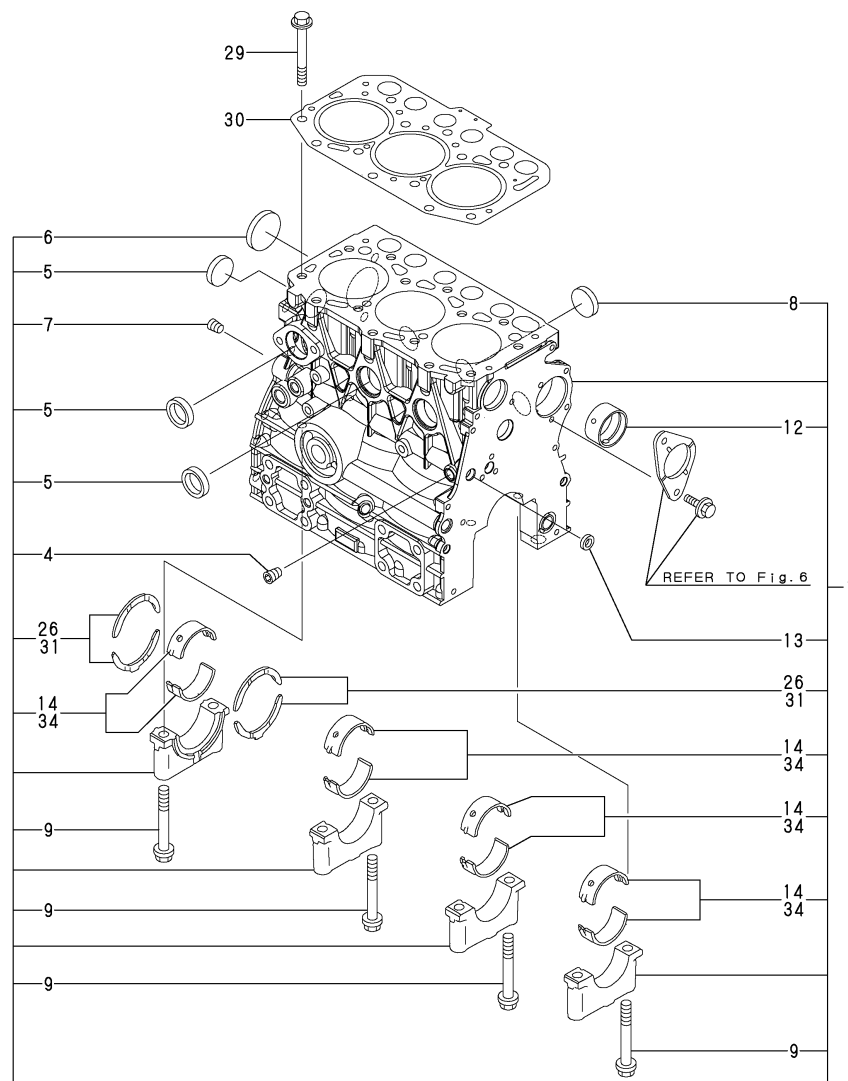
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5.	EXHAUST MANIFOLD		
6.	CAMSHAFT & DRIVING GEAR		
7.	CRANKSHAFT & PISTON		
8.	LUB. OIL SYSTEM		
9.	COOLING WATER SYSTEM		
10.	FUEL INJECTION PUMP		
11.	GOVERNOR		
12.	FUEL INJECTION VALVE		
13.	STARTER MOTOR		
14.	GENERATOR		
15.	GASKET SET & TOOL		

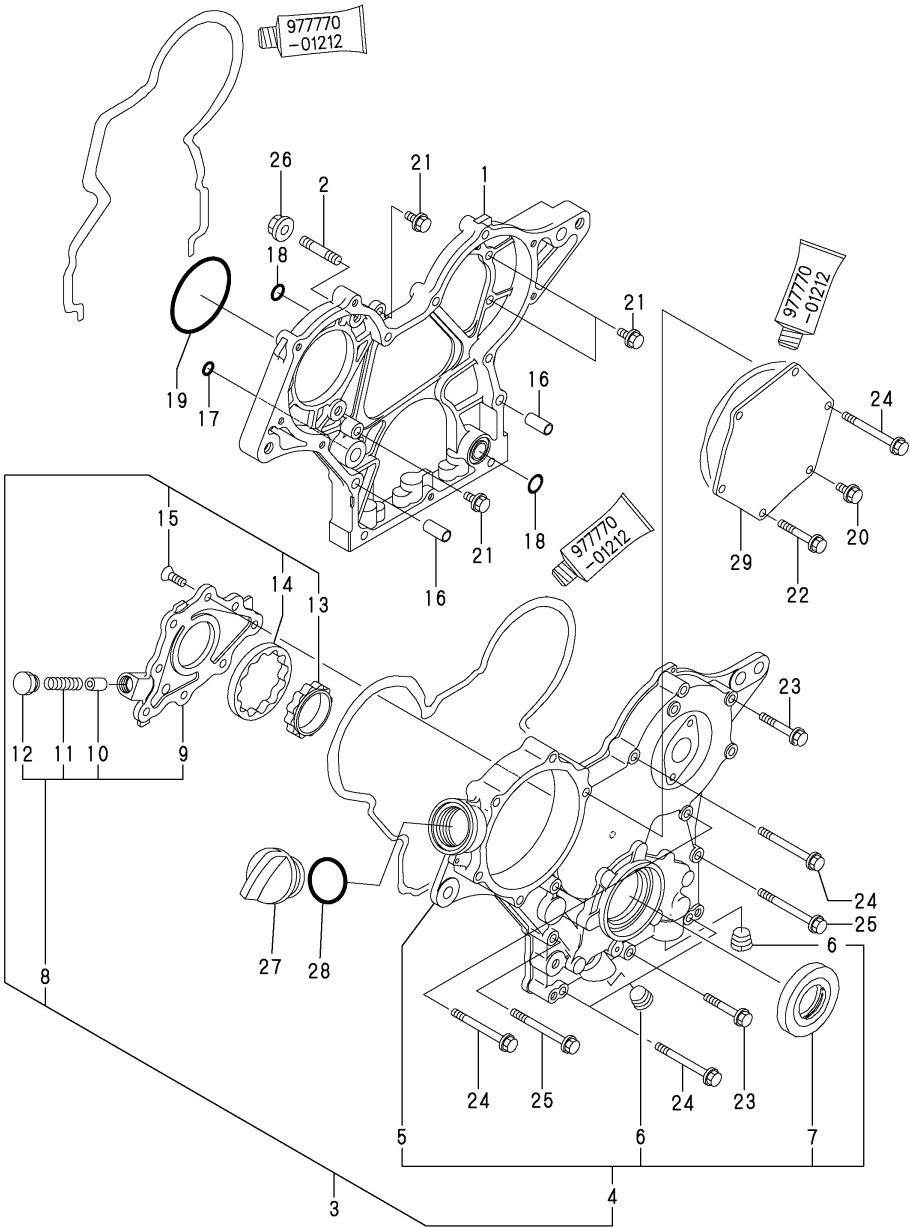


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719515-01560	BLOCK ASSY, CYLINDER	1							
4	3	124060-01050	PLUG, PT1/8	1							
5	3	105311-01090	PLUG, CUP TYPE 30	4							
6	3	119623-01250	PLUG, DISH TYPE 45	1							
7	3	124160-01910	PLUG, PT1/4	1							
8	3	119285-01990	PLUG, CUP TYPE 25	3							
9	3	119620-02020	BOLT, METAL CAP	8							
12	3	119717-02410	BUSH, CAMSHAFT	1							
13	3	27241-120000	PLUG, 12	1							
14	2	719717-02900	BEARING ASSY, MAIN	4							2
26	2	119717-02930	BEARING ASSY, THRUST	2							
29	1	119515-01200	BOLT, CYLINDER HEAD	14							
30	1	119515-01330	GASKET, HEAD	1							
31	1	119810-02940	BEARING, THRUST 0.25	2							1
34	1	719717-02910	BEARING ASSY. MAIN	4							3

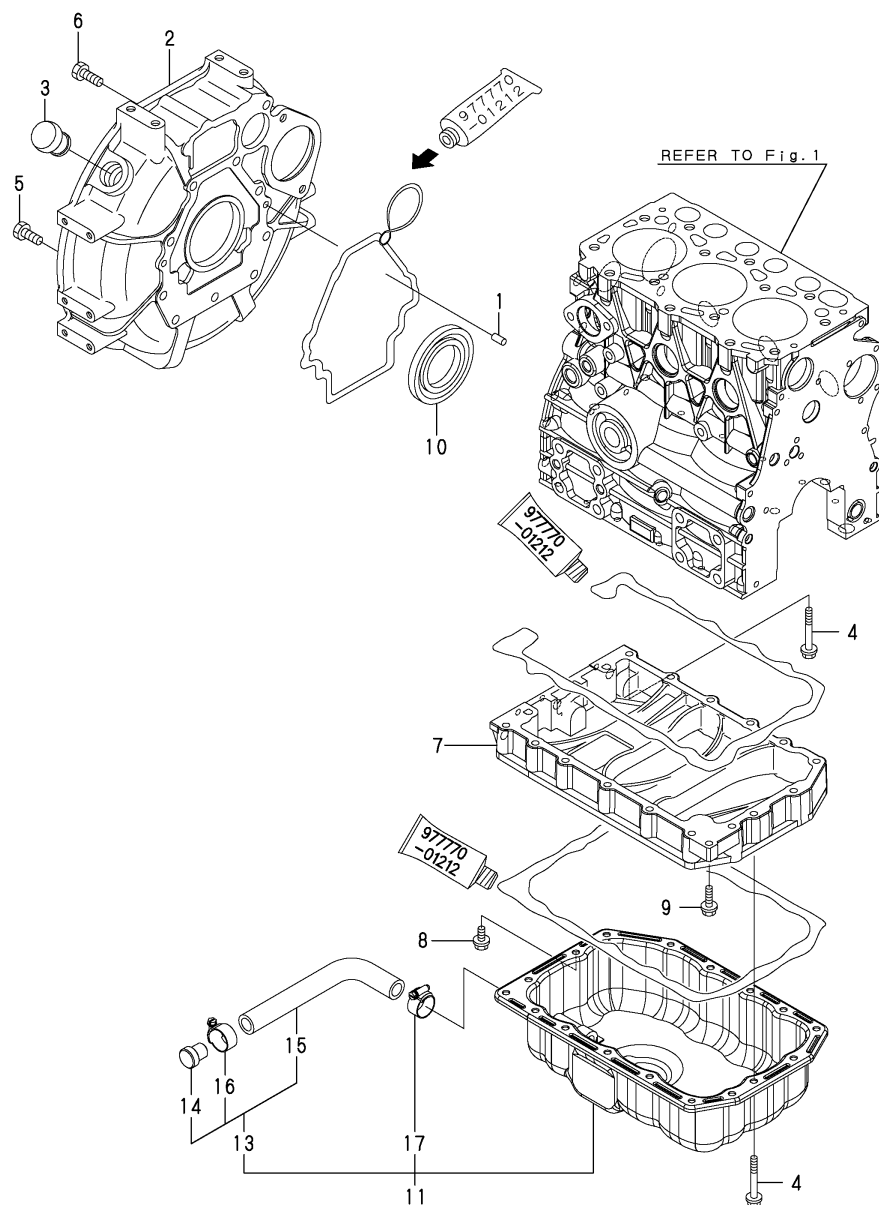
Remarks
(1)Over-sized(O.S.=0.25) parts.
(2)Spare parts.
(3)Under-sized(U.S.=0.25) parts.

N:Old $\xrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.2. GEAR HOUSING



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119717-01501	CASE, GEAR	1							
2	1	119717-01570	BOLT, STUD	3							
3	1	119717-01590	COVER ASSY,GEAR CASE	1							
4	2	719717-01500	COVER ASSY,GEAR CASE	1							
5	3	119717-01521	COVER, GEAR CASE	1							
6	3	23876-030000	PLUG, R03	2							
7	3	119620-01800	SEAL, OIL	1							
8	2	119717-32100	COVER ASSY	1							
9	3	119717-32080	COVER, PUMP	1							
10	3	129900-32130	VALVE, RELIEF	1							
11	3	129001-32320	SPRING	1							
12	3	129001-32330	PLUG	1							
13	2	119717-32110	ROTOR, INNER	1							
14	2	119717-32120	ROTOR, OUTER	1							
15	2	119802-32130	SCREW, M6X16	8							
16	1	119660-01911	PIPE, DOWEL 6X17	4							
17	1	119624-32040	O-RING, P12.0	1							
18	1	119717-32050	O-RING, P17.0	3							
19	1	121850-51960	O-RING	1							
20	1	26106-060122	BOLT, M6X 12 PLATED	1							
21	1	26106-060162	BOLT, M6X 16 PLATED	4							
22	1	26106-060402	BOLT, M6X 40 PLATED	4							
23	1	26106-060402	BOLT, M6X 40 PLATED	3							
24	1	26106-060602	BOLT, M6X 60 PLATED	7							
25	1	26106-060652	BOLT, M6X 65 PLATED	2							
26	1	26306-080002	NUT, M8	3							
27	1	124160-01751	CAP, FILLER	1							
28	1	24311-000320	O-RING, 1AP32.0	1							
29	1	119717-01750	COVER, PUMP	1							

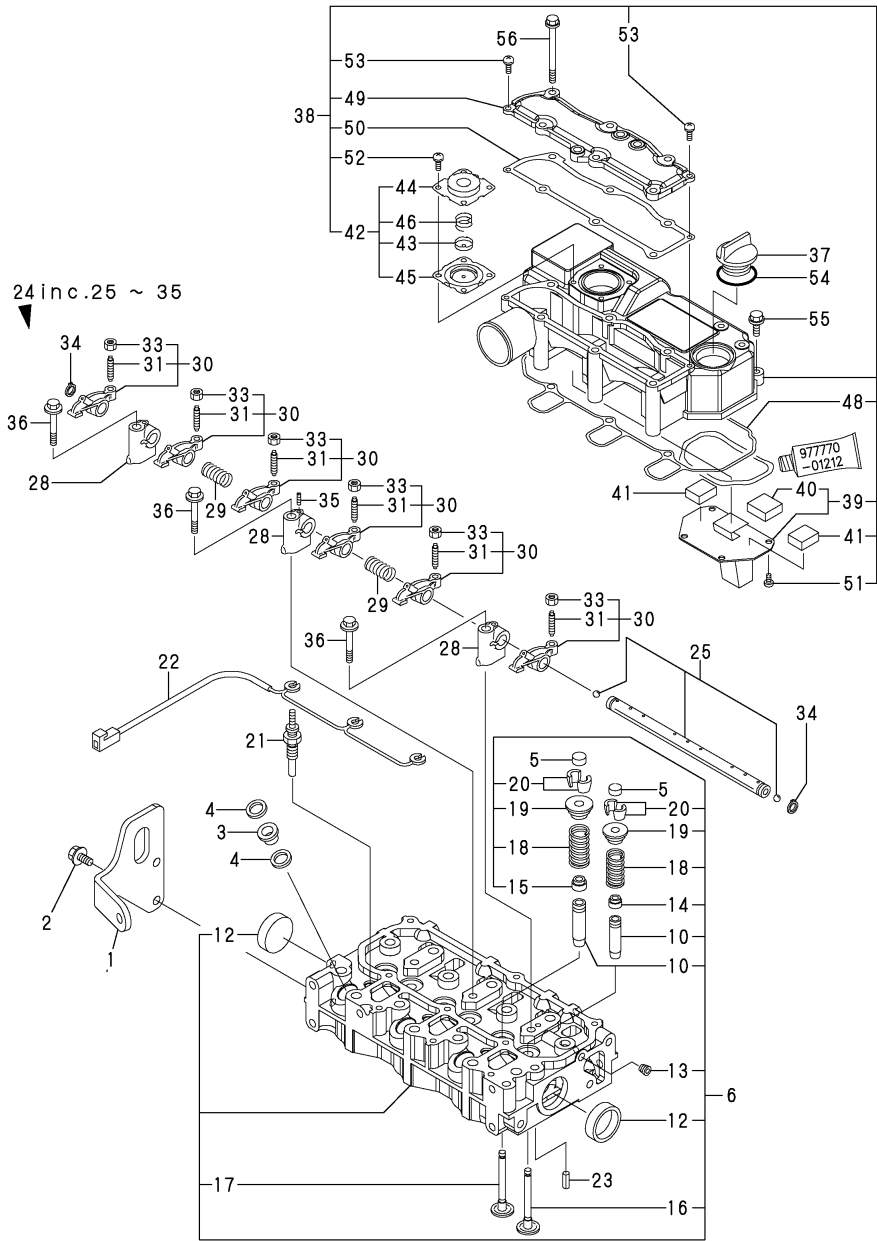


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129100-01580	PIN, PARALLEL 8X16	2							
2	1	119515-01601	HOUSING, FLYWHEEL	1							
3	1	119620-01750	CAP	1							
4	1	26106-060452	BOLT, M6X 45 PLATED	17							
5	1	26206-100252	BOLT, M10X 25 PLATED	7							
6	1	121120-01620	BOLT, M10X28	3							
7	1	119515-01720	SPACER, OIL-PAN	1							
8	1	26106-060122	BOLT, M6X 12 PLATED	1							
9	1	26106-060252	BOLT, M6X 25 PLATED	1							
10	1	124085-02220	SEAL, OIL	1							
11	1	119540-01790	SUMP ASSY, OIL	1							
13	2	119540-39920	HOSE ASSY, OIL DRAIN	1							
14	3	119656-39930	PLUG, DRAIN M14	1							
15	3	119540-39940	HOSE, DRAIN	1							
16	3	23001-022000	CLAMP, HOSE 22	1							
17	2	23001-022000	CLAMP, HOSE 22	1							

Fig.4. CYLINDER HEAD & BONNET

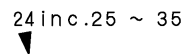
(A)=3TNV70-WBVB
(B)=
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119540-55910	STAY ASSY	1							
2	1	26106-080162	BOLT, M8X 16 PLATED	2							
3	1	129901-11450	PROTECTOR, NOZZLE	3							
4	1	119600-11460	GASKET, NOZZLE	6							
5	1	105010-11490	CAP, VALVE	6							
6	1	119515-11740	HEAD ASSY, CYLINDER	1							
10	3	119515-11800	GUIDE, VALVE	6							1
12	3	119285-11990	PLUG, 35	2							
13	3	23876-005000	PLUG, R005	1							
14	2	119717-11340	SEAL, VALVE STEM	3							
15	2	119717-11350	SEAL, VALVE STEM	3							
16	2	119515-11100	VALVE, INTAKE	3							
17	2	119515-11110	VALVE, EXHAUST	3							
18	2	119717-11131	SPRING, VALVE	6							
19	2	129508-11180	RETAINER, SPRING	6							
20	2	119717-11190	COTTER, VALVE	12							
21	1	119717-77800	PLUG, GLOW	3							
21-1	1	119717-77801	PLUG, GLOW	3							N
(A=E87231)											
21-2	1	119717-77810	PLUG, GLOW 12V	3							N
(A=*2023.06)											
22	1	119717-77820	CONNECTOR, GLOW PLUG	1							
23	1	22351-060012	PIN, SPRING 6.0X12	2							
24	1	119515-11200	SUPPORT ASSY, ROCKER	1							
25	2	119515-11240	SHAFT ASSY, ARM	1							
28	2	119717-11260	SUPPORT, ROCKER ARM	3							
29	2	119515-11280	SPRING, SHAFT	2							
30	2	119717-11650	ARM ASSY, ROCKER INT	6							
31	3	129150-11230	SCREW, VALVE ADJUST	6							
33	3	129150-11750	NUT, M8XP1.0	6							
34	2	22242-000120	RING, 12	2							
35	2	26979-050162	SCREW, M5X16	1							
36	1	26106-080402	BOLT, M8X 40 PLATED	3							
37	1	124160-01751	CAP, FILLER	1							
38	1	119515-11380	BONNET ASSY, HEAD	1							
39	2	119717-03031	PLATE, BAFFLE	1							
40	3	119717-03070	BAFFLE, BREATHER	1							
41	2	119717-03070	BAFFLE, BREATHER	2							
42	2	119802-03100	DIAPHRAGM ASSY	1							
43	3	119802-03110	PLATE, DIAPHRAGM	1							
44	3	119802-03121	COVER, DIAPHRAGM	1							
45	3	119802-03131	DIAPHRAGM, BREATHER	1							
46	3	119802-03141	SPRING, DIAPHRAGM	1							
48	2	119515-11310	GASKET, BONNET	1							
49	2	119515-11320	COVER, BONNET	1							
50	2	119515-11330	GASKET, BONNET COVER	1							
51	2	22857-500100	SCREW, 5X10	4							
52	2	22857-500100	SCREW, 5X10	4							
53	2	22857-500160	SCREW, 5X16	2							
54	1	24311-000320	O-RING, 1AP32.0	1							
55	1	26106-060202	BOLT, M6X 20 PLATED	3							

Remarks
(1)Spare parts.

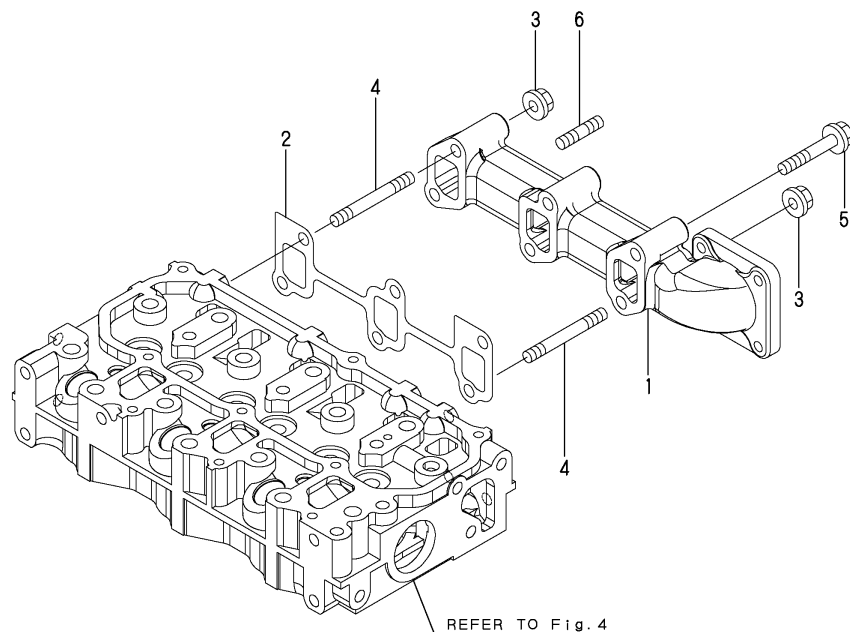


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
56	1	26106-060752	BOLT, M6X 75 PLATED	6							

[illegible]

Remarks
(1) Spare parts.

N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119540-13100	MANIFOLD, EXHAUST	1							
2	1	119717-13110	GASKET, EXH.MANIFOLD	1							
3	1	26306-080002	NUT, M8	2							
4	1	119717-13600	BOLT, STUD M8X50	2							
5	1	119802-13620	BOLT, M8X50	4							
6	1	119131-18320	BOLT, STUD M8X22	4							

Fig.6. CAMSHAFT & DRIVING GEAR

(A)=3TNV70-WBVB
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119620-14200	TAPPET	6							
2	1	119515-14400	PUSH-ROD	6							
3	1	119515-14580	CAMSHAFT ASSY	1							
8	1	26106-060122	BOLT, M6X 12 PLATED	2							
9	1	119717-25050	SHAFT, IDLE	1							
10	1	119717-25100	GEAR ASSY, IDLE	1							
13	1	26106-060352	BOLT, M6X 35 PLATED	3							
14	1	129150-25301	BOLT	4							
15	1	119717-25930	GEAR, PUMP	1							
16	1	119717-51150	FLANGE	1							
17	1	22217-120000	WASHER, SPRING 12	1							
18	1	26716-120002	NUT, M12	1							

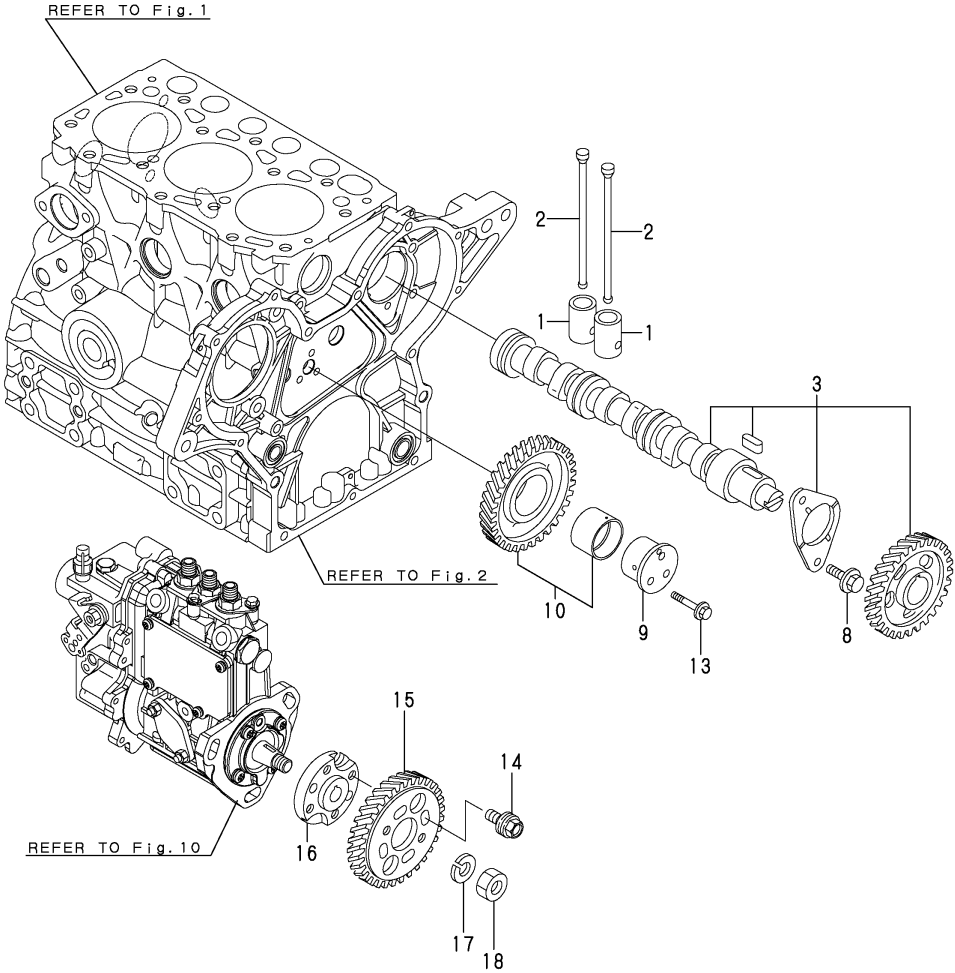
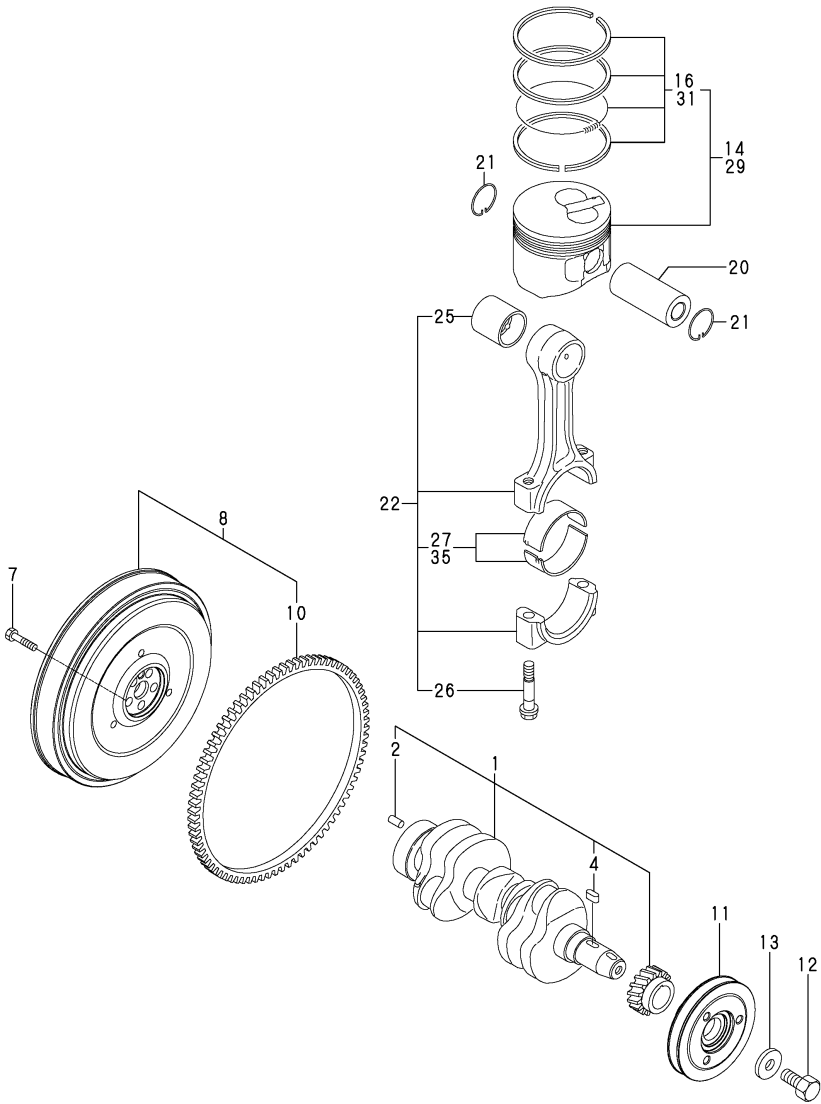


Fig.7. CRANKSHAFT & PISTON

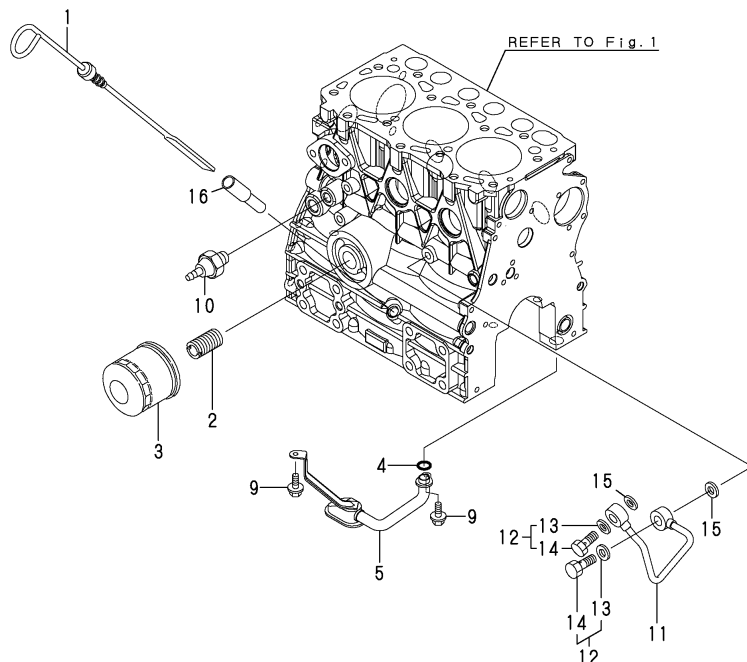
(A)=3TNV70-WBVB
(B)=
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119515-21700	CRANKSHAFT ASSY	1							
2	2	129100-01580	PIN, PARALLEL 8X16	1							
4	2	22512-040120	KEY, 4X 12	1							
7	1	119620-21500	BOLT, FLYWHEEL	5							
8	1	119540-21590	FLYWHEEL ASSY	1							
10	2	124950-21600	GEAR, RING	1							
11	1	119515-21650	V-PULLEY	1							
12	1	119621-21680	BOLT, FLANGE 12X1.25	1							
13	1	119620-21941	WASHER	1							
14	1	119515-22080	PISTON ASSY	3							
16	2	119515-22500	RING SET, PISTON	3							
20	1	119515-22300	PIN, PISTON	3							
21	1	22252-000220	RING, 22	6							
22	1	119515-23000	ROD ASSY, CONNECTING	3							
25	2	119717-23910	BEARING, PISTON PIN	3							2
26	2	119717-23200	BOLT, CONNECTING ROD	6							
27	2	119515-23600	BEARING, CRANK PIN	3							
29	1	119515-22900	PISTON ASSY, 0.25 OS	3							1
31	2	119515-22550	RING SET, 0.25 OS	3							1
35	1	119515-23610	BEARING ASSY, 0.25	3							3

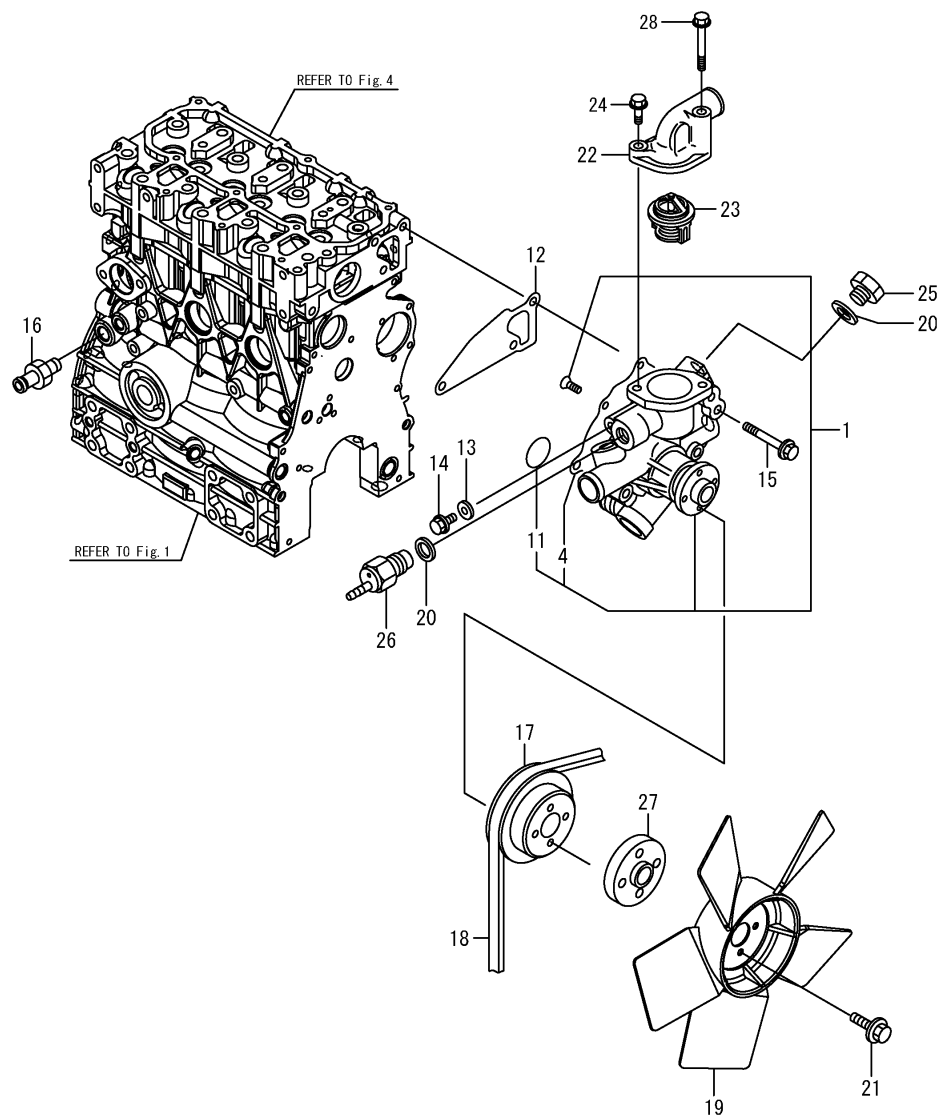
Remarks
(1)Over-sized(O.S.=0.25) parts.
(2)Spare parts.
(3)Under-sized(U.S.=0.25) parts.



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119515-34801	DIPSTICK, OIL	1							
2	1	129100-35140	STUD	1							
2-1	1	119717-35140	STUD	1							N
2-2	(A=E60927) 1	119417-35140	STUD, LO FILTER	1							N
	(A=EG7991)										
3	1	119305-35170	FILTER ASSY, D68XL65	1							
4	1	119717-32060	O-RING, P15.0	1							
5	1	119515-35080	PIPE ASSY, OIL INLET	1							
9	1	26106-060102	BOLT, M6X 10 PLATED	2							
10	1	114250-39450	SWITCH, HYDRAULIC	1							
11	1	119717-39210	PIPE, PUMP	1							
12	1	129005-59830	BOLT ASSY, JOINT M8	2							
13	2	22190-080002	WASHER, SEAL 8	2							
14	2	23857-030000	BOLT, JOINT 3	2							
15	1	22190-080002	WASHER, SEAL 8	2							
16	1	121520-34810	GUIDE, DIPSTICK	1							

Remarks
(1) Spare parts.

Fig.9. COOLING WATER SYSTEM

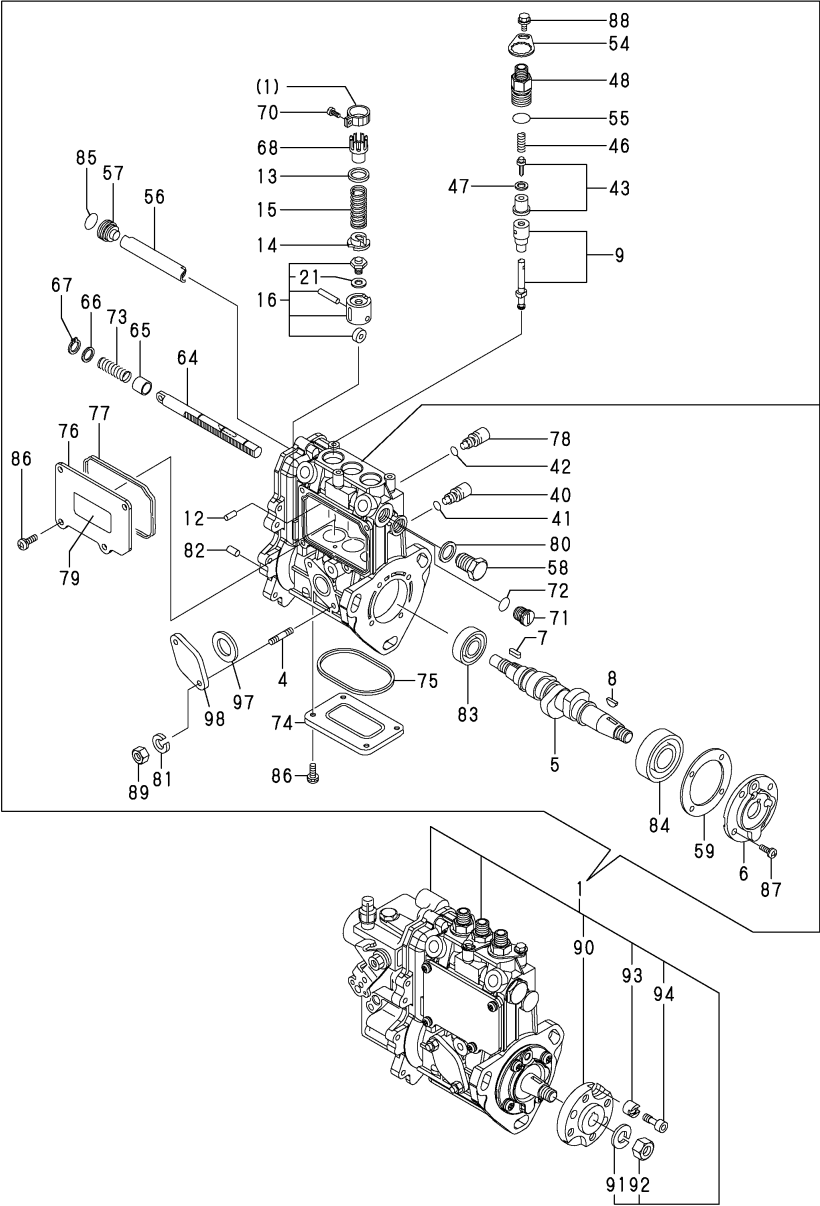


No.	Lev.	Parts No.	Description	Q'ty						I R
				(A)	(B)	(C)	(D)	(E)	(F)	
1	1	119515-42001	PUMP ASSY, WATER	1						
1-1	1	119515-42002	PUMP ASSY, WATER	1						N
		(A=E/ 85974)								
1-2	1	119515-42003	PUMP ASSY, CW	1						N
		(A=*2019.01)								
4	2	119717-42031	GASKET, WATER PUMP	1						
11	2	119717-42320	O-RING, P26	1						
11-1	2	119C10-42320	O-RING, 2028	1						S
		(A=E/ 85974)								
12	1	119515-42020	GASKET, WATER PUMP	1						
13	1	23414-080000	GASKET, 8X1.0	1						
14	1	26106-080122	BOLT, M8X 12 PLATED	1						
15	1	26106-080502	BOLT, M8X 50 PLATED	3						
16	1	121550-49111	JOINT, PT1/4	1						
17	1	119740-42350	V-PULLEY, PUMP D=90	1						
18	1	25132-003600	V-BELT, A36	1						
18-1	1	171001-42290	V-BELT, A35.5	1						N
		(A=E_54543)								
19	1	119540-44700	FAN, COOLING D=230	1						
20	1	124465-44950	GASKET, 16	2						
21	1	26106-060202	BOLT, M6X 20 PLATED	4						
22	1	124101-49531	COVER, THERMOSTAT	1						
23	1	119717-49800	THERMOSTAT, 71C	1						
24	1	26106-080252	BOLT, M8X 25 PLATED	1						
25	1	121450-42450	PLUG, M16	1						
26	1	121250-44901	SWITCH, TEMPERATURE	1						
27	1	119734-44760	SPACER, FAN 6MM	1						
28	1	26106-080652	BOLT, M8X 65 PLATED	1						

Fig.10. FUEL INJECTION PUMP

(A)=3TNV70-WBVB
(B)=
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719540-51360	PUMP ASSY, INJECTION	1							1
4	2	129155-51020	BOLT, STUD	2							
5	2	119717-51030	CAMSHAFT	1							
6	2	119717-51060	SUPPORT, CAMSHAFT	1							
7	2	119717-51070	FEATHER KEY,PARALLEL	1							
8	2	122710-51090	FEATHER KEY,WOODRUFF	1							
9	2	119515-51100	PLUNGER ASSY, FUEL	3							
12	2	129155-51140	PIN	3							
13	2	158600-51170	RETAINER, SPRING	3							
14	2	119717-51180	RETAINER, SPRING	3							
15	2	119717-51190	SPRING, PLUNGER	3							
16	2	119717-51200	TAPPET ASSY	3							
21	3	129155-51600	SHIM SET, ADJUSTING	3							
40	2	158600-51270	STOPPER, TAPPET	3							
41	2	129155-51280	O-RING, S6	3							
42	2	129155-51280	O-RING, S6	1							
43	2	119717-51300	VALVE ASSY, DELIVERY	3							
46	2	119717-51330	SPRING, DELIVERY	3							
47	2	124550-51350	GASKET, DELIVERY	3							
48	2	158600-51441	VALVE ASSY, DELIVERY	3							
54	2	118400-51370	PLATE, LOCKING	3							
55	2	24316-000150	O-RING, 4DP15.0	3							
56	2	129155-51400	DEFLECTOR	1							
57	2	158600-51410	PLUG, DEFLECTOR	1							
58	2	158600-51420	PLUG, DEFLECTOR	1							
59	2	129155-51450	SHIM SET, ADJUSTING	1							
64	2	119717-51500	RACK, CONTROL	1							
65	2	129155-51521	BUSH, RACK	1							
66	2	129155-51530	SPACER	1							
67	2	129155-51540	CIRCLIP	1							
68	2	129155-51550	PINION, CONTROL	3							
70	2	129100-51570	SCREW, PINION	3							
71	2	158600-51570	PLUG, RACK	1							
72	2	129155-51580	O-RING	1							
73	2	129155-51591	SPRING, RACK	1							
74	2	129155-51701	COVER	1							
75	2	119717-51710	GASKET	1							
76	2	119717-51750	COVER	1							
77	2	119717-51760	GASKET	1							
78	2	158600-51790	STOPPER, RACK	1							
79	2	129156-51910	LABEL, CAUTION	1							
80	2	22190-160002	WASHER, SEAL 16	1							
81	2	22217-060000	WASHER, SPRING 6	2							
82	2	22351-050010	PIN, SPRING 5.0X10	2							
83	2	24101-060034	BEARING, BALL 6003	1							
84	2	24101-063034	BEARING, BALL 6303	1							
85	2	119717-51420	O-RING	1							
86	2	26022-050122	SCREW, M5X12	8							
87	2	26022-060162	SCREW, M6X16	4							
88	2	26106-050102	BOLT, M5X 10 PLATED	3							
89	2	26716-060002	NUT, M6	2							

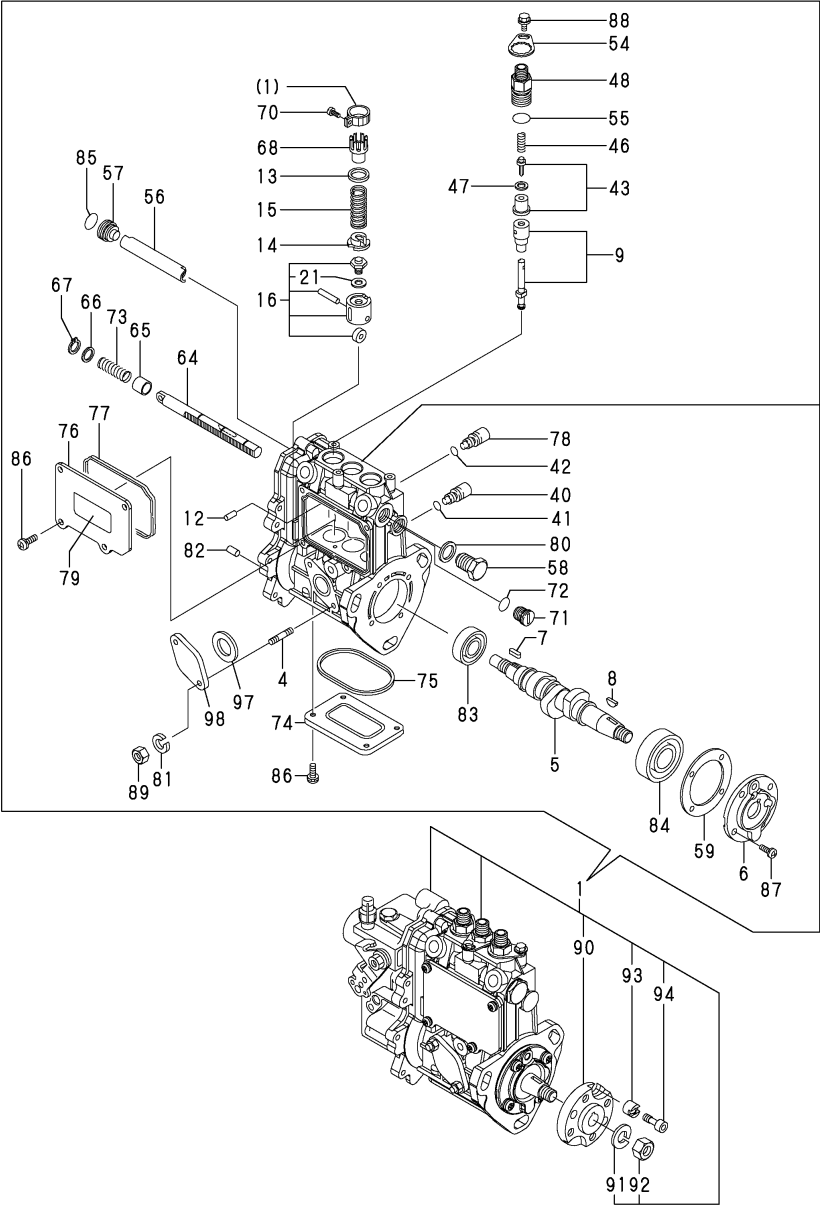
Remarks

(1)Governor(Fig.11) is incorporated in this Fuel Injection Pump(No.1).

Fig.10. FUEL INJECTION PUMP

(A)=3TNV70-WBVB
(B)=
(C)=

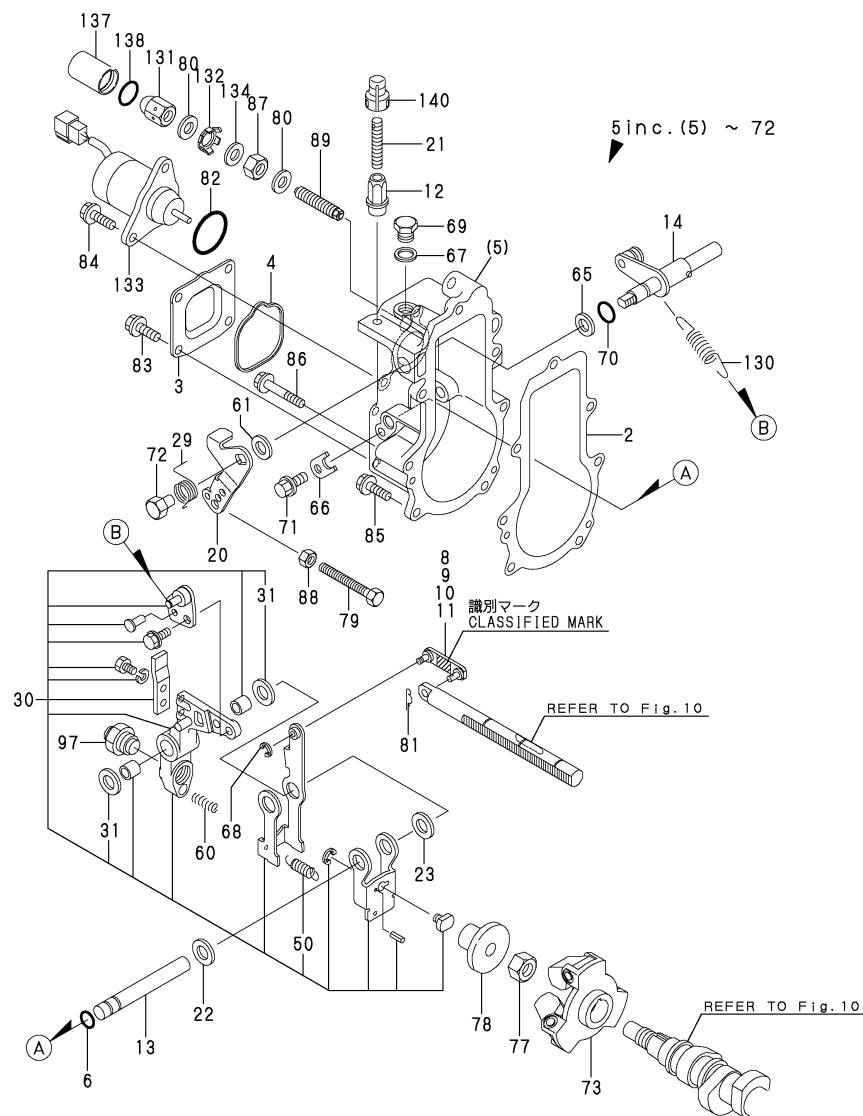
(D)=
(E)=
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
90	2	119717-51150	FLANGE	1							
91	2	22217-120000	WASHER, SPRING 12	1							
92	2	26716-120002	NUT, M12	1							
93	2	119717-51480	COLLAR	1							
94	2	119717-51490	BOLT	1							
97	2	129155-52051	GASKET	1							
98	2	129100-52200	COVER, PUMP	1							

Remarks

(1)Governor(Fig.11) is incorporated in this Fuel Injection Pump(No.1).



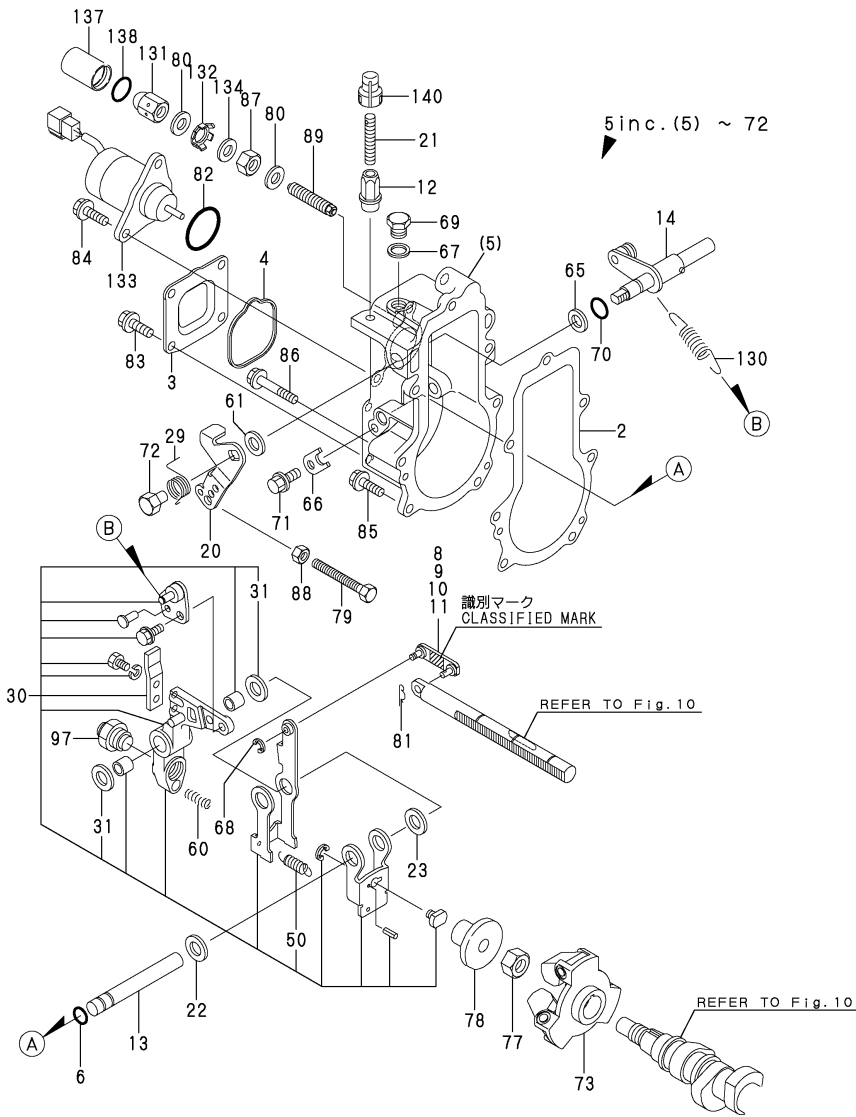
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
2	2	119717-61050	GASKET	1							
3	2	119717-61060	COVER, GOVERNOR CASE	1							
4	2	119717-61070	GASKET	1							
5	2	119540-61100	CASE ASSY, GOVERNOR	1							
6	3	129155-51280	O-RING, S6	1							
8	3	119717-61120	LINK, MARK :3	1							1
9	3	119717-61130	LINK, MARK 98	1							1
10	3	119717-61140	LINK, MARK 88	1							1
11	3	119717-61150	LINK, MARK 03	1							1
12	3	129209-61370	NUT, ARB M6	1							
13	3	129052-61390	SHAFT,GOVERNOR LEVER	1							
14	3	119717-61400	SHAFT ASSY	1							
20	3	119515-61440	LEVER, CONTROL	1							
21	3	129155-61450	BOLT, LIMITING	1							
22	3	129156-61460	SHIM, T=0.6	1							
23	3	129155-61480	SHIM ASSY	1							
29	3	129255-61420	SPRING, RETURN	1							
30	3	119761-61500	LEVER ASSY, GOVERNOR	2							
31	4	174307-51700	SHIM SET, PLUNGER	2							
50	4	129486-61540	SPRING, GOV.LEVER	1							
60	3	129486-61650	SPRING, STARTING	1							
61	3	158552-61700	SHIM SET	1							
65	3	158552-61710	SHIM, T=1.0	1							
66	3	119660-61901	STOPPER, SHAFT	1							
67	3	22190-100002	WASHER, SEAL 10	1							
68	3	22272-000030	RING, E- 3	1							
69	3	23887-100002	PLUG, 10	1							
70	3	24341-000070	O-RING, 1AS7.0	1							
71	3	26106-060102	BOLT, M6X 10 PLATED	1							
72	3	129255-61410	NUT, M8	1							
73	2	119717-61200	WEIGHT ASSY,GOVERNOR	1							
77	2	119660-61300	NUT	1							
78	2	129155-61341	SLEEVE	1							
79	2	129155-61460	BOLT, LIMITING	1							
80	2	22190-120002	WASHER, SEAL 12	2							
81	2	22372-040000	PIN, SNAP 4	1							
82	2	24341-000280	O-RING, 1AS28.0	1							
82-1	2	158552-61900	O-RING	1							N
(A=EXXXXX)											
83	2	26106-060102	BOLT, M6X 10 PLATED	4							
84	2	26106-060142	BOLT, M6X 14 PLATED	2							
85	2	26106-060202	BOLT, M6X 20 PLATED	4							
86	2	26106-060452	BOLT, M6X 45 PLATED	3							
87	2	26736-120002	NUT, M12	1							
88	2	26756-060002	NUT, LOCK M6	1							
89	2	158601-61760	LIMITER ASSY, FUEL	1							
97	2	119746-61550	ANGLEICH ASSY	1							
130	2	129489-61700	SPRING, GOVERNOR	1							
131	2	129209-61930	NUT, CAP	1							
132	2	129209-61970	PLATE	1							
133	2	119233-77932	SOLENOID, STOP	1							

N:Old $\xrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
 ++ CONTINUE ++
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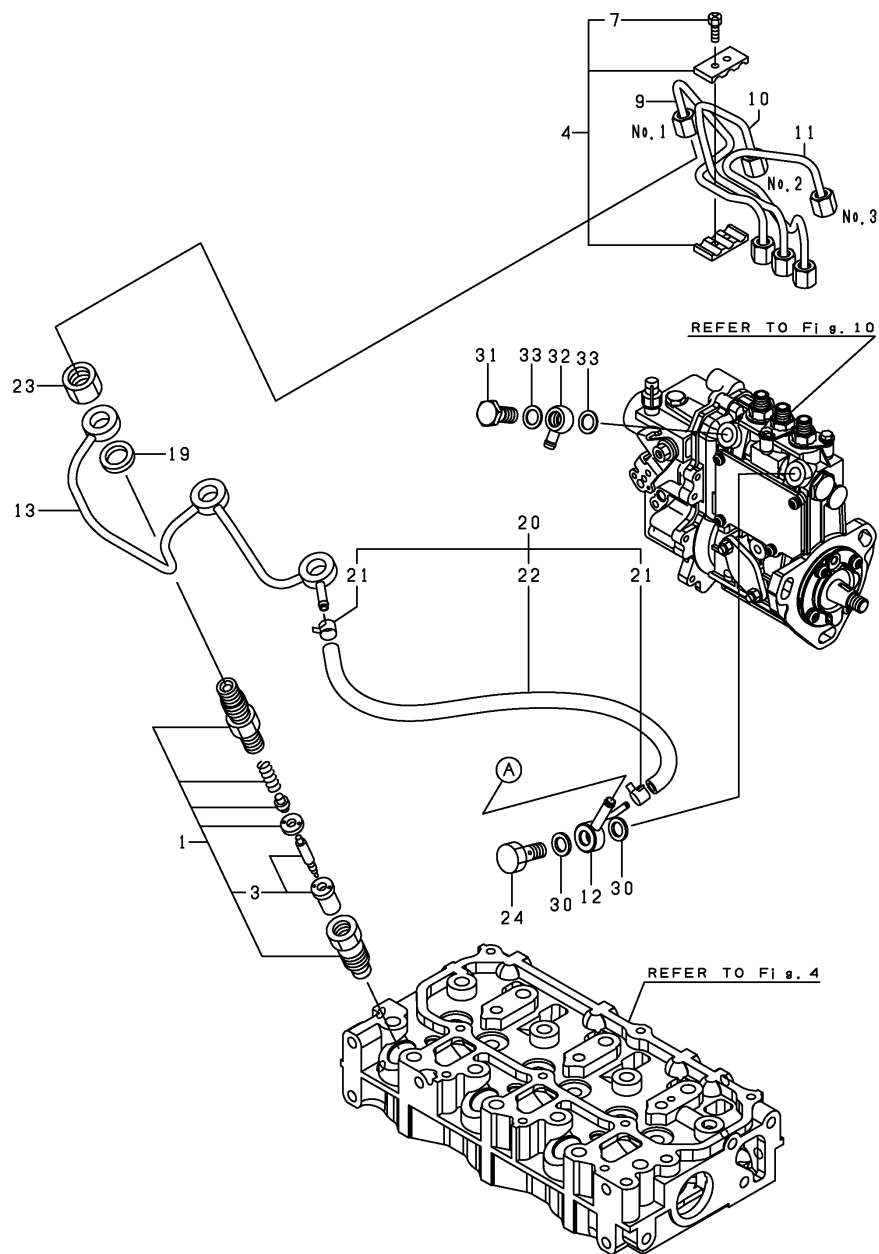
(A)=3TNV70-WBVB
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
134	2	23414-120016	GASKET, 12X1.0	1							
137	1	129209-61960	CASE	1							2
138	1	24311-000150	O-RING, 1AP15.0	1							
140	1	119285-66650	CAP, HIGH-IDLE	1							2



Remarks
(1) Selective parts : Certain the classification mark, then place your order.
(2) Spare parts.
* This figure (Governor) is incorporated in the Fuel Injection Pump (Fig. 10).

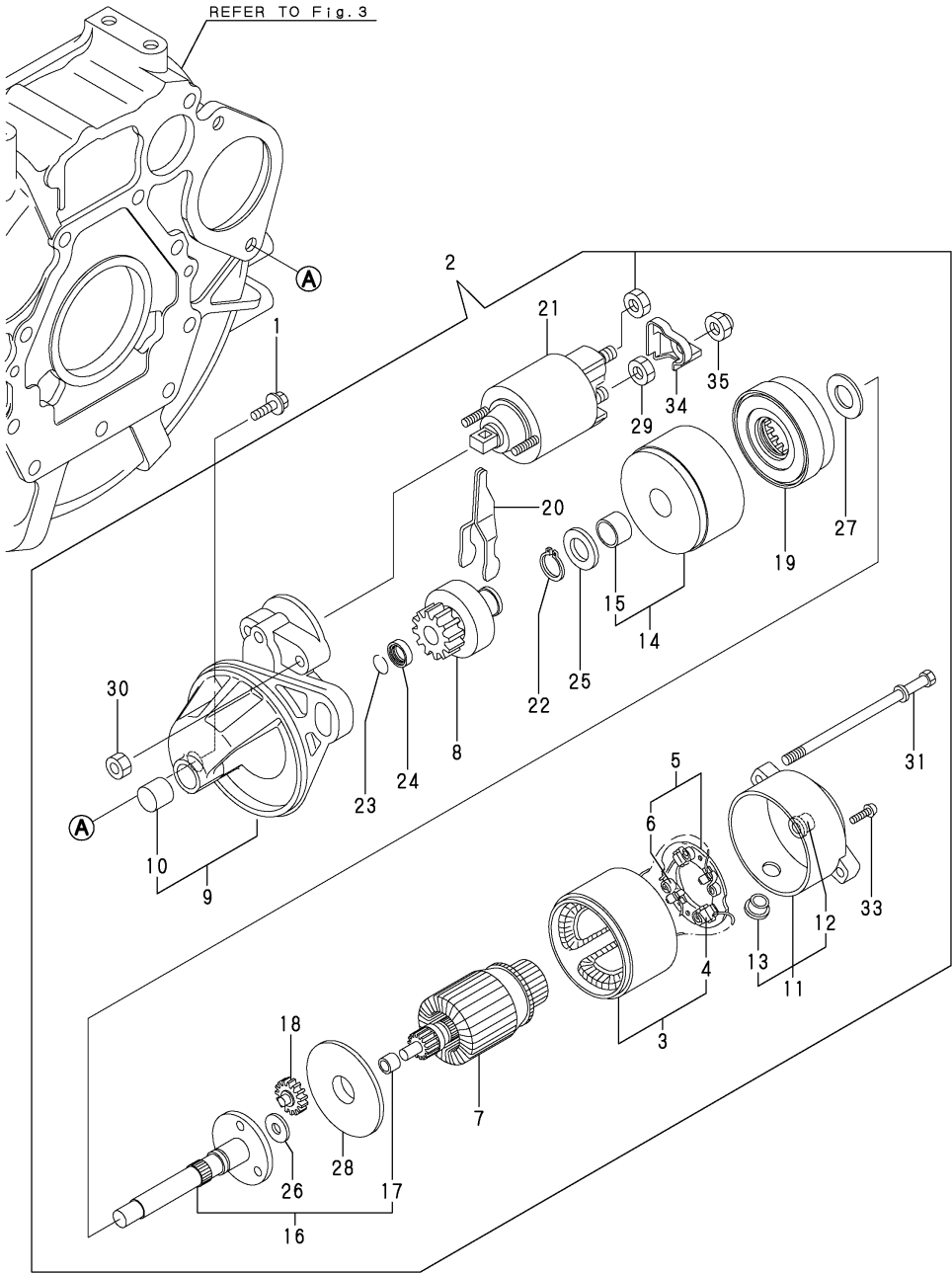


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119517-53001	VALVE ASSY,INJECTION	3							
3	2	119517-53010	VALVE ASSY,INJECTION	3							
4	1	129150-59120	RETAINER, PIPE	1							
7	2	129150-59131	BOLT, M4X14	2							
9	1	119546-59810	PIPE, INJECTION NO.1	1							
10	1	119546-59820	PIPE, INJECTION NO.2	1							
11	1	119546-59830	PIPE, INJECTION NO.3	1							
12	1	119840-59570	JOINT, OVERFLOW	1							
13	1	119515-59540	PIPE ASSY, RETURN	1							
19	1	129901-59560	GASKET, FUEL RETURN	3							
20	1	119515-59570	HOSE ASSY, RETURN	1							
20-1	1	119540-59570	HOSE ASSY, RETURN	1							N
(A=E01673)											
20-2	1	119416-59520	PIPE ASSY, RETURN	1							N
(A=*2020.04.)											
21	2	124066-59100	CLAMP, HOSE 8	2							
22	2	105225-59240	HOSE, FUEL RETURN	1							
22-1	2	119540-59560	HOSE ASSY, RETURN	1							N
(A=E01673)											
23	1	119620-59700	NUT, NOZZLE RETURN	3							
24	1	119813-59950	VALVE ASSY, CHECK	1							
30	1	22190-120002	WASHER, SEAL 12	2							
31	1	103854-39140	BOLT, PIPE JOINT	1							
32	1	101304-59020	JOINT, PIPE 12	1							
33	1	22190-120002	WASHER, SEAL 12	2							

Fig.13. STARTER MOTOR

(A)=3TNV70-WBVB
(B)=
(C)=

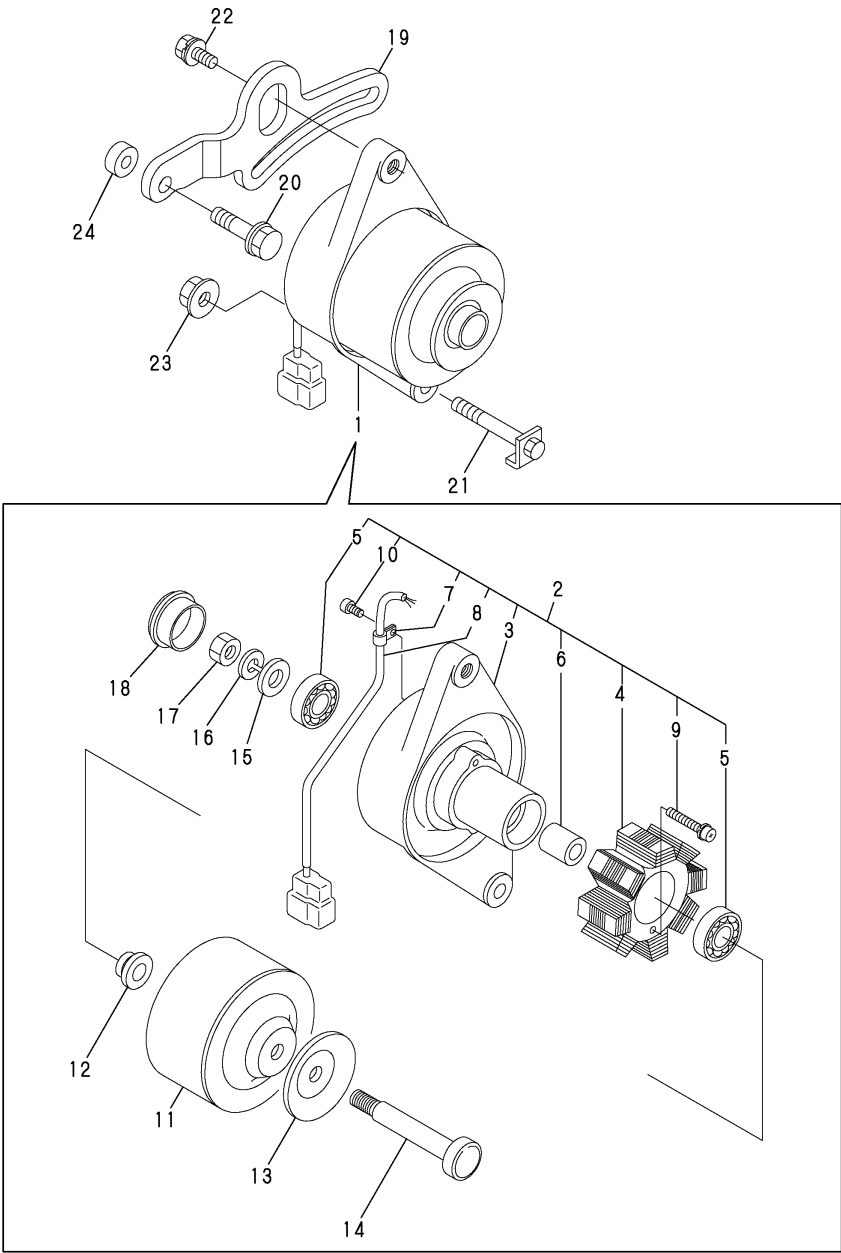
(D)=
(E)=
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	26106-100252	BOLT, M10X 25 PLATED	2							
2	1	119717-77010	STARTER ASSY	1							
3	2	X0281007750	YOKE ASSY	1							
4	3	X0280996180	STARTER KIT	2							
5	2	X0285105190	HOLDER ASSY	1							
6	3	X0285205030	SPRING	4							
7	2	X0282005991	ARMATURE ASSY	1							
8	2	X0283006960	CLUTCH ASSY	1							
9	2	X4284001590	HOUSING ASSY	1							
10	3	X9491050100	BEARING, NEEDLE	1							
11	2	X0285007030	FRAME ASSY	1							
12	3	X9491040990	BEARING	1							
13	3	X0280626010	COVER	1							
14	2	X0284105040	BEARING ASSY	1							
15	3	X9491034330	BEARING	1							
16	2	X0286105010	SHAFT ASSY	1							
17	3	X9491034320	BEARING	1							
18	2	X0286305010	GEAR	3							
19	2	X0286355010	GEAR	1							
20	2	X0287405140	LEVER	1							
21	2	X0534007800	SWITCH ASSY	1							
22	2	X9055715000	RING	1							
23	2	X9490721360	RING	1							
24	2	X0280210331	NUT	1							
25	2	X9490138110	WASHER	1							
26	2	X9490138090	WASHER	1							
27	2	X9490138100	WASHER	1							
28	2	X0284525010	PLATE	1							
29	2	X9490562360	NUT	1							
30	2	X9490560750	NUT	2							
31	2	X9490423420	BOLT, THROUGH	2							
33	2	X9490065670	SCREW, M4X6	2							
34	2	X0280335350	COVER, TERMINAL	1							
35	2	X1289510130	NUT	1							

(A)=3TNV70-WBVB
(B)=
(C)=

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

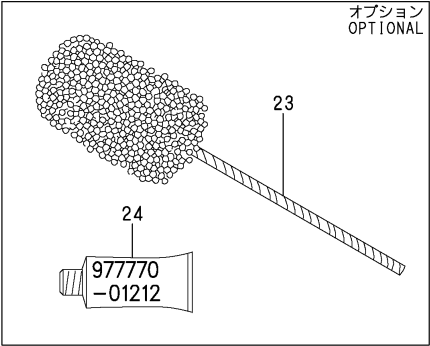
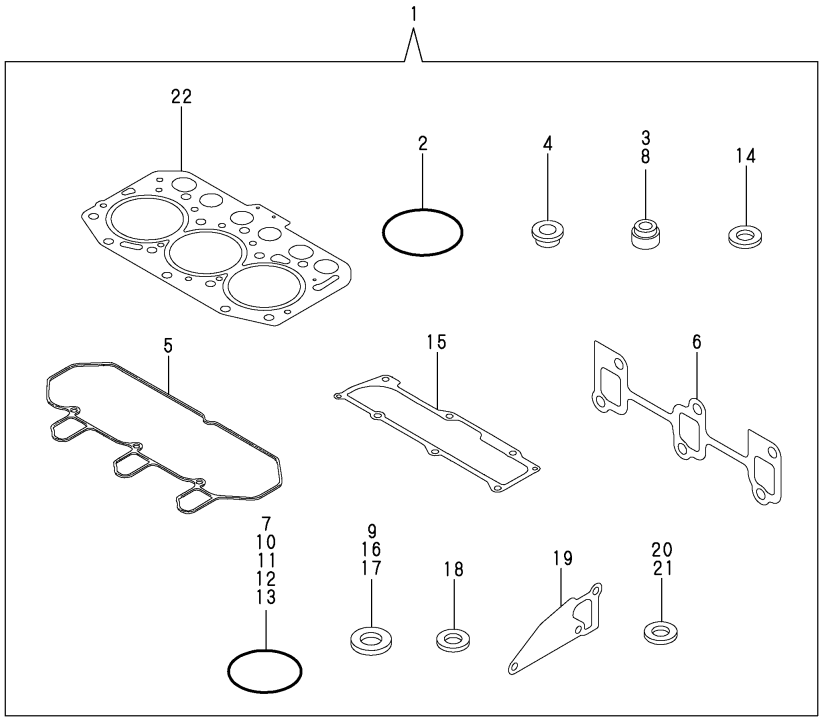


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119663-77200	DYNAMO	1							
2	2	X2A09922KA	PLATE ASSY	1							
3	3	X2A07071KA	PLATE, COIL	1							
4	3	X4A07023KC	STATOR ASSY	1							
5	3	24104-062010	BEARING, 6201UUC3	2							
6	3	XM329830000	COLLAR	1							
7	3	XM069000000	CLAMP	1							
8	3	XM178780000	COUPLER	1							
9	3	XYSPS402400	SCREW	2							
10	3	XYSPS400800	SCREW	1							
11	2	X3A08344KB	FLYWHEEL	1							
12	2	X4A04060K01	COLLAR	1							
13	2	XM721740000	PULLEY	1							
14	2	X4A07130K01	SHAFT	1							
15	2	XM860250000	WASHER, 10	1							
16	2	XM219230000	WASHER, SPRING	1							
17	2	XM863720000	NUT	1							
18	2	XM771870000	CAP	1							
19	1	119540-77310	ADJUSTER	1							
20	1	26106-080202	BOLT, M8X 20 PLATED	1							
21	1	119740-77250	BOLT, M10X75	1							
22	1	129972-77341	BOLT, ADJUST L=50	1							
23	1	26306-100002	NUT, M10	1							
24	1	119940-77270	SPACER	1							

Fig.15. GASKET SET & TOOL

(A)=3TNV70-WBVB
(B)=
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719544-92600	GASKET SET	1							1
2	2	121850-51960	O-RING	1							
3	2	119717-11340	SEAL, VALVE STEM	3							
4	2	129901-11450	PROTECTOR, NOZZLE	3							
5	2	119515-11310	GASKET, BONNET	1							
6	2	119717-13110	GASKET, EXH.MANIFOLD	1							
7	2	24341-000240	O-RING, 1AS24.0	1							
8	2	119717-11350	SEAL, VALVE STEM	3							
9	2	22190-080002	WASHER, SEAL 6	4							
10	2	24311-000320	O-RING, 1AP32.0	2							
11	2	119717-32060	O-RING, P15.0	1							
12	2	119624-32040	O-RING, P12.0	1							
13	2	119717-32050	O-RING, P17.0	3							
14	2	119600-11460	GASKET, NOZZLE	6							
15	2	119515-11330	GASKET	1							
16	2	22190-160002	WASHER, SEAL 16	1							
17	2	22190-120002	WASHER, SEAL 12	4							
18	2	129901-59560	GASKET	3							
19	2	119515-42020	GASKET, WATER PUMP	1							
20	2	23414-080000	GASKET, 8X1.0	1							
21	2	124465-44950	GASKET, 16	2							
22	2	119515-01330	GASKET, HEAD	1							
23	1	129400-92410	HONE, FLEX	1							1
24	1	977770-01212	GASKET, LIQUID	1							1

Remarks
(1)Optional parts.

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Parts No.	Fig. No.	Ref. No.
101304-59020	12	32
103854-39140	12	31
105010-11490	4	5
105225-59240	12	22
105311-01090	1	5
114250-39450	8	10
118400-51370	10	54
119131-18320	5	6
119233-77932	11	133
119285-01990	1	8
119285-11990	4	12
119285-66650	11	140
119305-35170	8	3
119416-59520	12	20 -2
119417-35140	8	2 -2
119515-01200	1	29
119515-01330	1	30
	15	22
119515-01601	3	2
119515-01720	3	7
119515-11100	4	16
119515-11110	4	17
119515-11200	4	24
119515-11240	4	25
119515-11280	4	29
119515-11310	4	48
	15	5
119515-11320	4	49
119515-11330	4	50
	15	15
119515-11380	4	38
119515-11740	4	6
119515-11800	4	10
119515-14400	6	2
119515-14580	6	3
119515-21650	7	11
119515-21700	7	1
119515-22080	7	14
119515-22300	7	20
119515-22500	7	16
119515-22550	7	31
119515-22900	7	29
119515-23000	7	22
119515-23600	7	27
119515-23610	7	35
119515-34801	8	1
119515-35080	8	5
119515-42001	9	1
119515-42002	9	1 -1
119515-42003	9	1 -2

Parts No.	Fig. No.	Ref. No.
119515-42020	9	12
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119515-51100	10	9
119515-59540	12	13
119515-59570	12	20
119515-61440	11	20
119517-53001	12	1
119517-53010	12	3
119540-01790	3	11
119540-13100	5	1
119540-21590	7	8
119540-39920	3	13
119540-39940	3	15
119540-44700	9	19
119540-55910	4	1
119540-59560	12	22 -1
119540-59570	12	20 -1
119540-61100	11	5
119540-77310	14	19
119546-59810	12	9
119546-59820	12	10
119546-59830	12	11
119600-11460	4	4
	15	14
119620-01750	3	3
119620-01800	2	7
119620-02020	1	9
119620-14200	6	1
119620-21500	7	7
119620-21941	7	13
119620-59700	12	23
119621-21680	7	12
119623-01250	1	6
119624-32040	2	17
	15	12
119656-39930	3	14
119660-01911	2	16
119660-61300	11	77
119660-61901	11	66
119663-77200	14	1
119717-01501	2	1
119717-01521	2	5
119717-01570	2	2
119717-01590	2	3
119717-01750	2	29
119717-02410	1	12
119717-02930	1	26
119717-03031	4	39
119717-03070	4	40
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Parts No.	Fig. No.	Ref. No.
119717-11131	4	18
119717-11190	4	20
119717-11260	4	28
119717-11340	4	14
	15	3
119717-11350	4	15
	15	8
119717-11650	4	30
119717-13110	5	2
	15	6
119717-13600	5	4
119717-23200	7	26
119717-23910	7	25
119717-25050	6	9
119717-25100	6	10
119717-25930	6	15
119717-32050	2	18
	15	13
119717-32060	8	4
	15	11
119717-32080	2	9
119717-32100	2	8
119717-32110	2	13
119717-32120	2	14
119717-35140	8	2 -1
119717-39210	8	11
119717-42031	9	4
119717-42320	9	11
119717-49800	9	23
119717-51030	10	5
119717-51060	10	6
119717-51070	10	7
119717-51150	6	16
	10	90
119717-51180	10	14
119717-51190	10	15
119717-51200	10	16
119717-51300	10	43
119717-51330	10	46
119717-51420	10	85
119717-51480	10	93
119717-51490	10	94
119717-51500	10	64
119717-51710	10	75
119717-51750	10	76
119717-51760	10	77
119717-61050	11	2
119717-61060	11	3
119717-61070	11	4
119717-61120	11	8

Parts No.	Fig. No.	Ref. No.
119717-61130	11	9
119717-61140	11	10
119717-61150	11	11
119717-61200	11	73
119717-61400	11	14
119717-77010	13	2
119717-77800	4	21
119717-77801	4	21 -1
119717-77810	4	21 -2
119717-77820	4	22
119734-44760	9	27
119740-42350	9	17
119740-77250	14	21
119746-61550	11	97
119761-61500	11	30
119802-03100	4	42
119802-03110	4	43
119802-03121	4	44
119802-03131	4	45
119802-03141	4	46
119802-13620	5	5
119802-32130	2	15
119810-02940	1	31
119813-59950	12	24
119840-59570	12	12
119940-77270	14	24
119C10-42320	9	11 -1
121120-01620	3	6
121250-44901	9	26
121450-42450	9	25
121520-34810	8	16
121550-49111	9	16
121850-51960	2	19
	15	2
122710-51090	10	8
124060-01050	1	4
124066-59100	12	21
124085-02220	3	10
124101-49531	9	22
124160-01751	2	27
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124160-01910	1	7
124465-44950	9	20
	15	21
124550-51350	10	47
124950-21600	7	10
129001-32320	2	11
129001-32330	2	12
129005-59830	8	12
129052-61390	11	13

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Parts No.	Fig. No.	Ref. No.
129100-01580	3	1
	7	2
129100-35140	8	2
129100-51570	10	70
129100-52200	10	98
129150-11230	4	31
129150-11750	4	33
129150-25301	6	14
129150-59120	12	4
129150-59131	12	7
129155-51020	10	4
129155-51140	10	12
129155-51280	10	41
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	11	6
129155-51400	10	56
129155-51450	10	59
129155-51521	10	65
129155-51530	10	66
129155-51540	10	67
129155-51550	10	68
129155-51580	10	72
129155-51591	10	73
129155-51600	10	21
129155-51701	10	74
129155-52051	10	97
129155-61341	11	78
129155-61450	11	21
129155-61460	11	79
129155-61480	11	23
129156-51910	10	79
129156-61460	11	22
129209-61370	11	12
129209-61930	11	131
129209-61960	11	137
129209-61970	11	132
129255-61410	11	72
129255-61420	11	29
129400-92410	15	23
129486-61540	11	50
129486-61650	11	60
129489-61700	11	130
129508-11180	4	19
129900-32130	2	10
129901-11450	4	3
	15	4
129901-59560	12	19
	15	18
129972-77341	14	22
158552-61700	11	61

Parts No.	Fig. No.	Ref. No.
158552-61710	11	65
158552-61900	11	82 -1
158600-51170	10	13
158600-51270	10	40
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158600-51420	10	58
158600-51441	10	48
158600-51570	10	71
158600-51790	10	78
158601-61760	11	89
171001-42290	9	18 -1
174307-51700	11	31
22190-080002	8	13
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	15	9
22190-100002	11	67
22190-120002	11	80
	12	30
		33
	15	17
22190-160002	10	80
	15	16
22217-060000	10	81
22217-120000	6	17
	10	91
22242-000120	4	34
22252-000220	7	21
22272-000030	11	68
22351-050010	10	82
22351-060012	4	23
22372-040000	11	81
22512-040120	7	4
22857-500100	4	51
		52
22857-500160	4	53
23001-022000	3	16
		17
23414-080000	9	13
	15	20
23414-120016	11	134
23857-030000	8	14
23876-005000	4	13
23876-030000	2	6
23887-100002	11	69
24101-060034	10	83
24101-063034	10	84
24104-062010	14	5
24311-000150	11	138
24311-000320	2	28
	4	54

Parts No.	Fig. No.	Ref. No.
24311-000320	15	10
24316-000150	10	55
24341-000070	11	70
24341-000240	15	7
24341-000280	11	82
25132-003600	9	18
26022-050122	10	86
26022-060162	10	87
26106-050102	10	88
26106-060102	8	9
	11	71
		83
26106-060122	2	20
	3	8
	6	8
26106-060142	11	84
26106-060162	2	21
26106-060202	4	55
	9	21
	11	85
26106-060252	3	9
26106-060352	6	13
26106-060402	2	22
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26106-060452	3	4
	11	86
26106-060602	2	24
26106-060652	2	25
26106-060752	4	56
26106-080122	9	14
26106-080162	4	2
26106-080202	14	20
26106-080252	9	24
26106-080402	4	36
26106-080502	9	15
26106-080652	9	28
26106-100252	13	1
26206-100252	3	5
26306-080002	2	26
	5	3
26306-100002	14	23
26716-060002	10	89
26716-120002	6	18
	10	92
26736-120002	11	87
26756-060002	11	88
26979-050162	4	35
27241-120000	1	13
719515-01560	1	1
719540-51360	10	1

Parts No.	Fig. No.	Ref. No.
719544-92600	15	1
719717-01500	2	4
719717-02900	1	14
719717-02910	1	34
977770-01212	15	24
X0280210331	13	24
X0280335350	13	34
X0280626010	13	13
X0280996180	13	4
X0281007750	13	3
X0282005991	13	7
X0283006960	13	8
X0284105040	13	14
X0284525010	13	28
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X0285205030	13	6
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X0286355010	13	19
X0287405140	13	20
X0534007800	13	21
X1289510130	13	35
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X2A09922KA	14	2
X3A08344KB	14	11
X4284001590	13	9
X4A04060K01	14	12
X4A07023KC	14	4
X4A07130K01	14	14
X9055715000	13	22
X9490065670	13	33
X9490138090	13	26
X9490138100	13	27
X9490138110	13	25
X9490423420	13	31
X9490560750	13	30
X9490562360	13	29
X9490721360	13	23
X9491034320	13	17
X9491034330	13	15
X9491040990	13	12
X9491050100	13	10
XM0690000000	14	7
XM1787800000	14	8
XM2192300000	14	16
XM3298300000	14	6
XM7217400000	14	13
XM7718700000	14	18
XM8602500000	14	15

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Parts No.	Fig. No.	Ref. No.
XM863720000	14	17
XYSPS400800	14	10
XYSPS402400	14	9

Parts No.	Fig. No.	Ref. No.
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Parts No.	Fig. No.	Ref. No.
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Parts No.	Fig. No.	Ref. No.
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