

0CK50-M00470EN

Precautions

1. Some of the illustrations in this parts catalog are simplified.
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.
5. Please refer to the user manual or service manual for information on how to replace parts, technical information, and other related details.
6. If you are using a booklet or PDF parts catalog, you must verify the latest information via the online parts catalog.

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- 3) This parts catalog does not guarantee conformity to the customer's requirements.
- 4) In addition to the previous items, we do not guarantee the accuracy, completeness, assurance, applicability, usefulness, availability, safety or reliability of this parts catalog.

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4. When using this parts catalog, you must comply with the laws and regulations applicable in the country or region in which you use it. Our company assumes no responsibility for any violations of laws and regulations by the customer.

P R E F A C E

1. This Parts Catalog carries Yanmar excavator (crawler back-hoe) Vio20-3B for Korea.

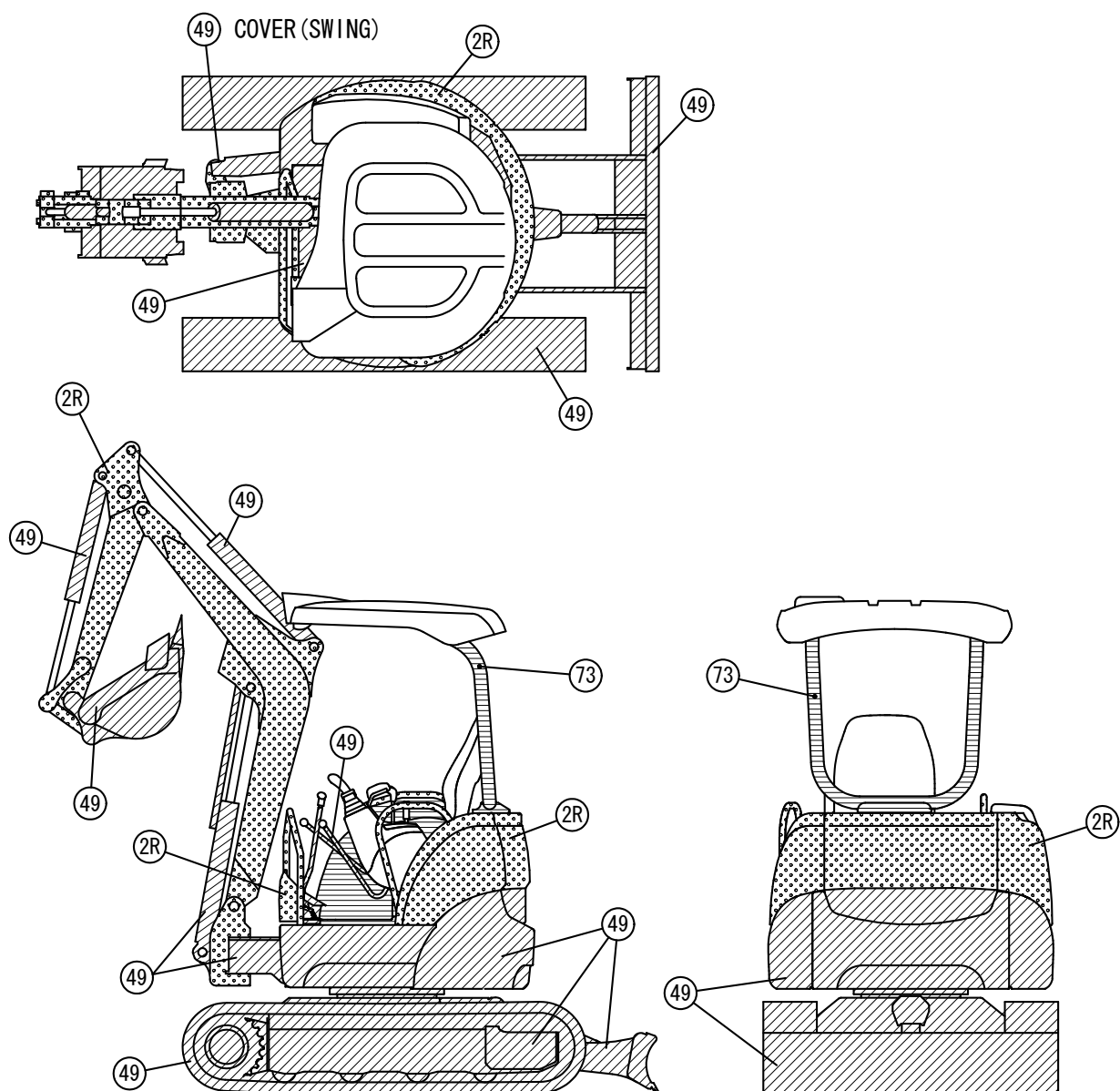
2. Parts catalog history

		Model	Published	Remarks
1st edition	Vehicle	VI020-3B (KR)	Apr. , 2015	
	Engine	3TNV80-XPBV		

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.

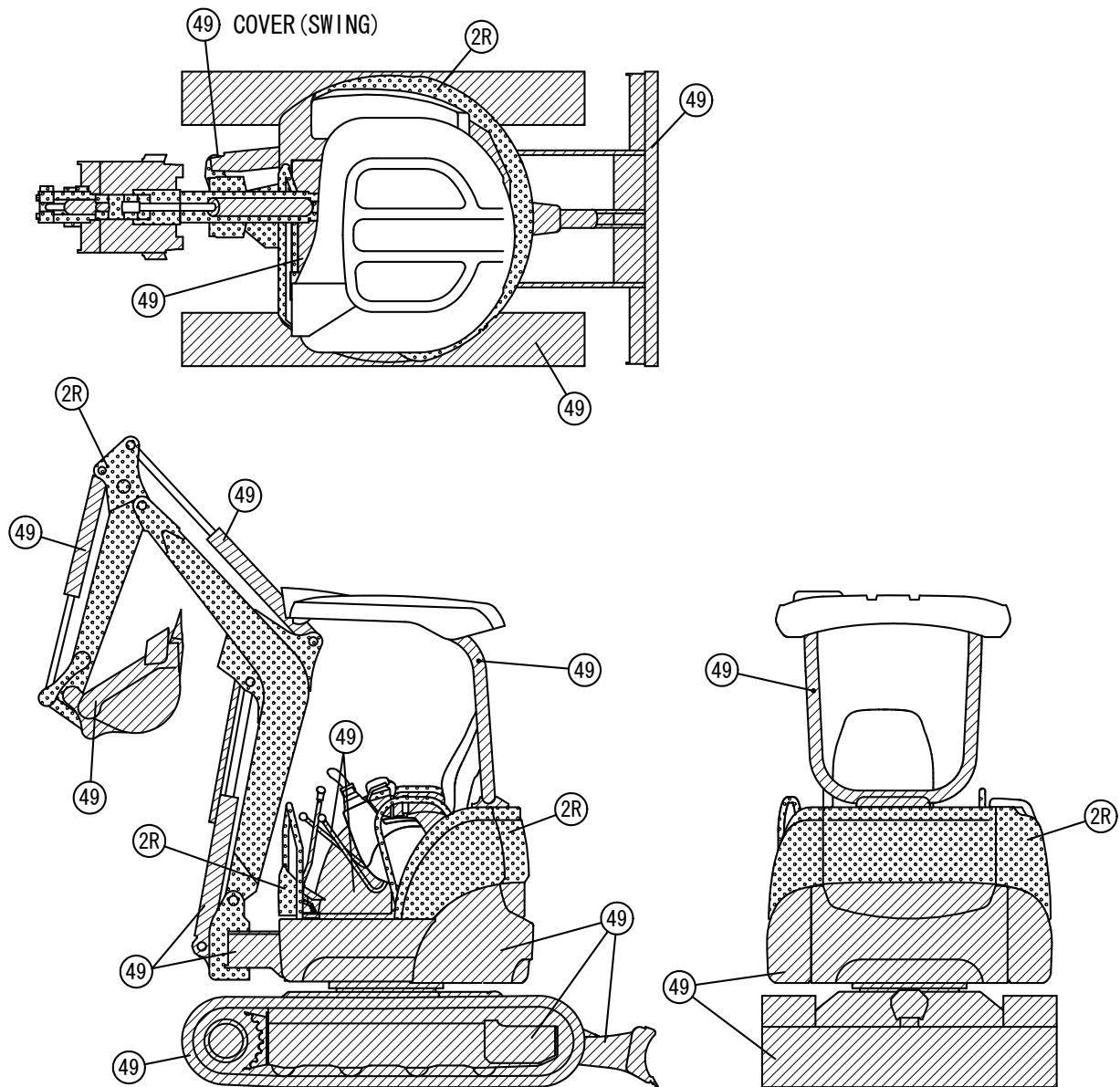
Be sure to use Yanmar Genuine Parts in your maintenance servicing of Yanmar products. Be careful not to use the simple parts available in the market, otherwise their use in repairing causes such as an early breakage, for instance.

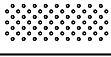
VEHICLE PAINTED COLOR (TO MBF000)



Color Code	Desc-ription	Painted Color	Paint Part No.		
			16L Can	4L Can	SPRAY
49		YANMAR Navy Gray	-----	TOR-91390000	TOR-94800490
2R		YANMAR Turmeric Yellow	-----	977620-41001	977620-41002
73		YANMAR Warm Gray	-----	TOR-91450000	TOR-94800730

VEHICLE PAINTED COLOR (FROM MBF001)

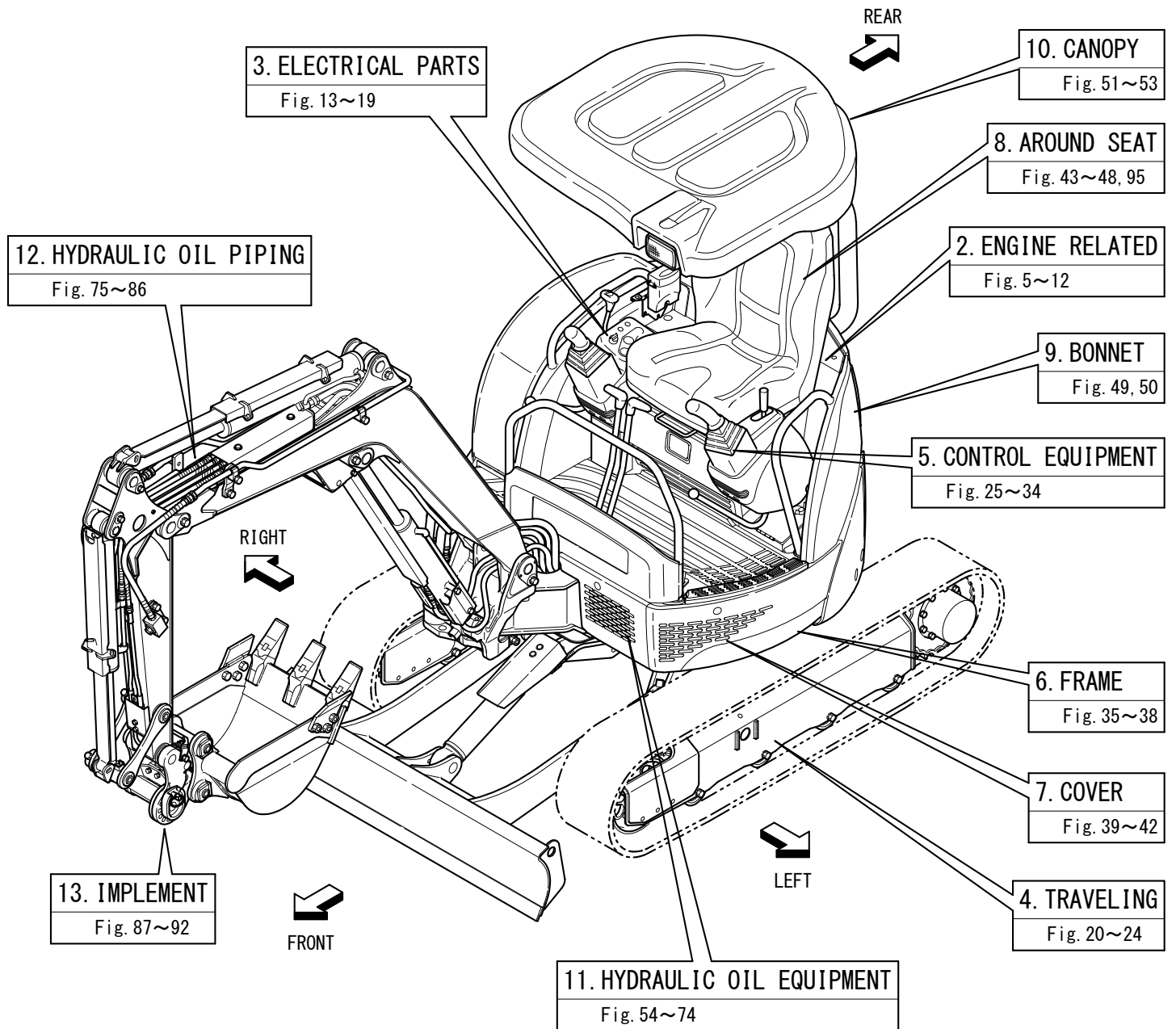


Color Code	Description	Painted Color	Paint Part No.		
			16L Can	4L Can	SPRAY
49		YANMAR Navy Gray	-----	TOR-91390001	TOR-94800491
2R		YANMAR Turmeric Yellow	-----	977620-41001	977620-41002

PICTURESQUE INDEX (1) ■ ■ ■ MAIN PARTS

1. LABEL & ACCESSORY

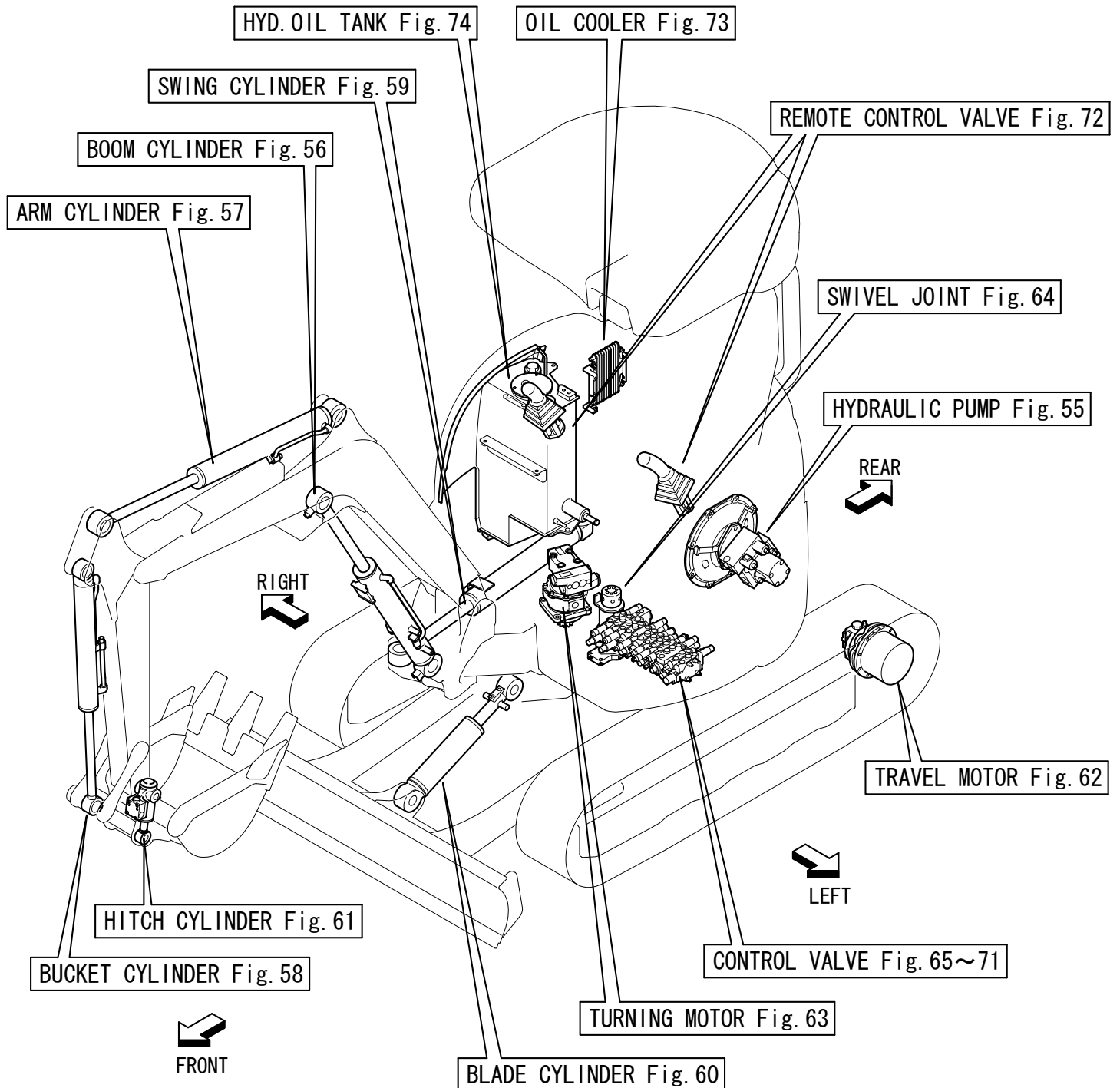
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PICTURESQUE INDEX (2) ■ ■ ■ HYDRAULIC SECTION

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Fig. No. Fig. Name

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AROUND SEAT

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51. CANOPY

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Fig. No. Fig. Name

HYDRAULIC OIL EQUIPMENT

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55. HYDRAULIC PUMP

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IMPLEMENT

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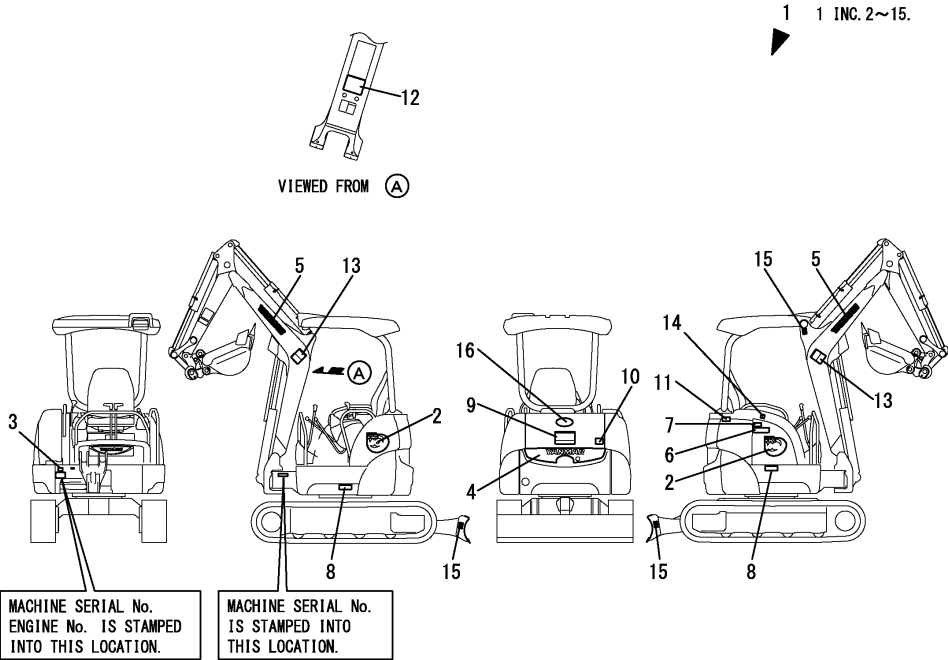
Fig. No. Fig. Name

Fig.1. LABEL(EXTERIOR)(TO MBF000)

(A)=VIO20-3B P(KR)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A36-08200	LABEL SET,OUT AS KR	1							
2	2	172A23-03120	LABEL,MODEL	2							
3	2	172A23-03140	LABEL, GREASE	1							
4	2	172458-03160	LABEL, REAR	1							
5	2	172A86-03310	LABEL,YANMAR	2							
6	2	172437-03322	LABEL, RESEVOIR	1							
7	2	172463-03330	LABEL,COVER	1							
8	2	172437-03352	LABEL, CYLINDER	2							
9	2	172437-03381	LABEL, SWING AREA	1							
10	2	172437-03402	LABEL, ENGINE COVER	1							
11	2	172A36-03411	LABEL, ENGINE ROOM	1							
12	2	172437-03432	LABEL, STEERING	1							
13	2	172437-03461	LABEL, BOOM	2							
14	2	172437-03501	LABEL, FUEL	1							
15	2	172437-03511	LABEL, HOOK	3							
16	1	172A64-03050	EMBLEM ASSY	1							



SAFTY LABEL

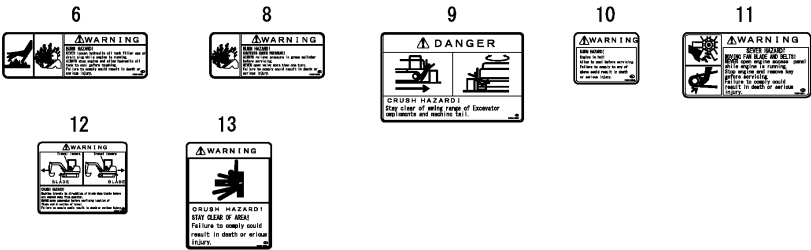
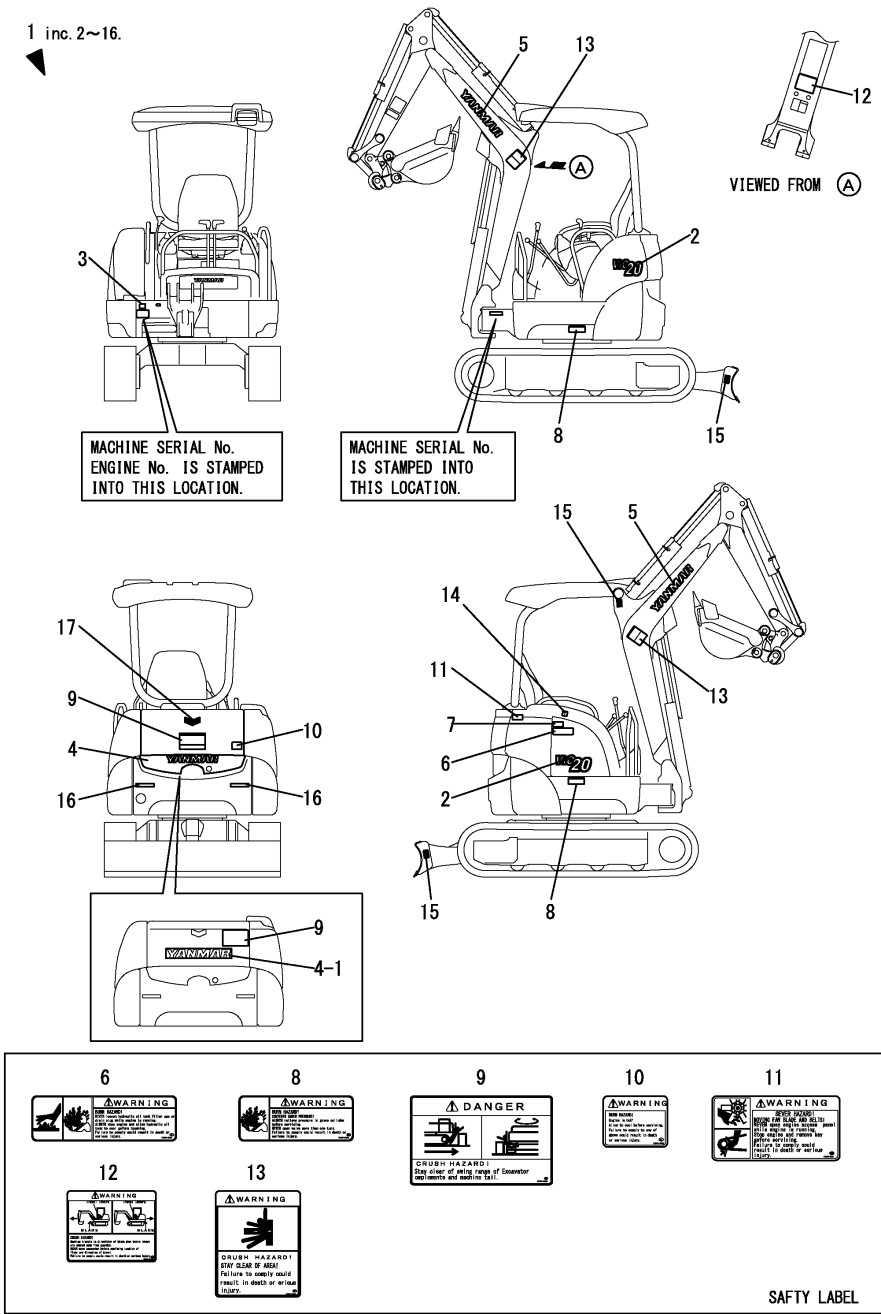


Fig.93. (1A)LABEL(EXTERIOR)(FROM MBF001)

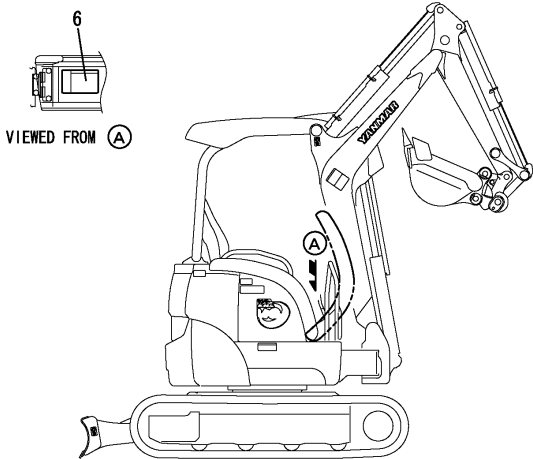
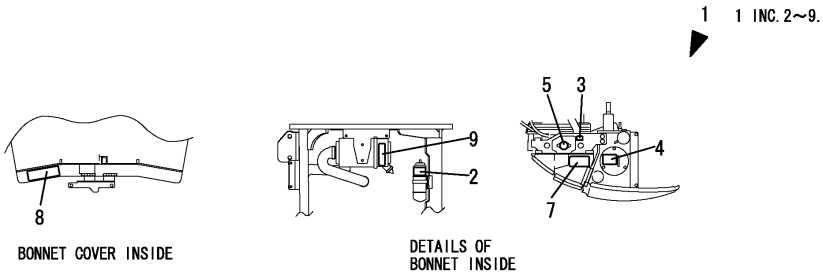


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A36-08201	LABEL SET,OUT AS KRD	1							
1-1	1	172A36-08202	LABEL SET,OUT AS KRD	1							S
(A=MBF167)											
2	2	172A23-03470	LABEL,MODEL VIO20	2							
3	2	172A23-03140	LABEL, GREASE	1							
4	2	172A23-03790	LABEL,REAR	1							
4-1	2	172A86-03820	LABEL, YANMAR 560 B	1							S
(A=MBF167)											
5	2	172A86-03790	LABEL,YANMAR 450 B	2							
6	2	172437-03322	LABEL, RESEVOIR	1							
7	2	172463-03330	LABEL,COVER	1							
8	2	172437-03352	LABEL, CYLINDER	2							
9	2	172437-03381	LABEL, SWING AREA	1							
9-1	2	172A64-03380	LABEL, SWING AREA US	1							N
(A=MBF167)											
10	2	172437-03402	LABEL, ENGINE COVER	1							
11	2	172A36-03411	LABEL, ENGINE ROOM	1							
12	2	172437-03432	LABEL, STEERING	1							
13	2	172437-03461	LABEL, BOOM	2							
14	2	172437-03501	LABEL, FUEL	1							
15	2	172437-03511	LABEL, HOOK	3							
16	2	172B04-03980	LABEL, REFLECTOR M	2							
17	1	172A64-03400	EMBLEM ASSY,FY L2 Y	1							

(A)=VIO20-3B P(KR)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A36-08210	LABEL SET,IN AS KR	1							
2	2	172A38-03201	LABEL, SUB TANK	1							
3	2	172A38-03211	LABEL, ANTI-FREEZING	1							
4	2	172463-03290	LABEL, HYD.OIL	1							
5	2	172462-03320	LABEL, RADIATOR	1							
6	2	172437-03361	LABEL, BATTERY	1							
7	2	172437-03391	LABEL, RADIATOR	1							
8	2	172437-03422	LABEL, MUFFLER	1							
9	2	172125-03951	LABEL, AIR CLEANER	1							



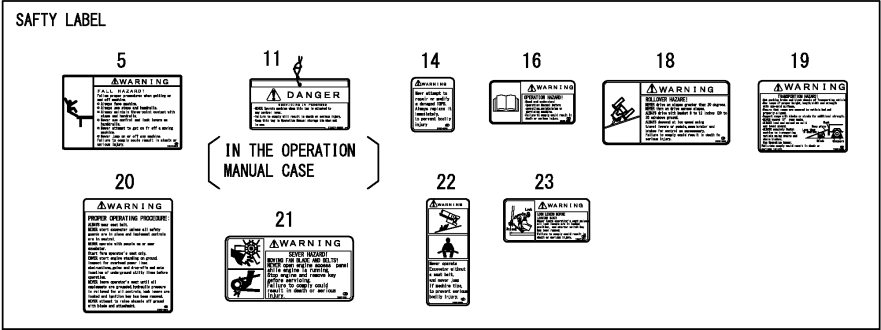
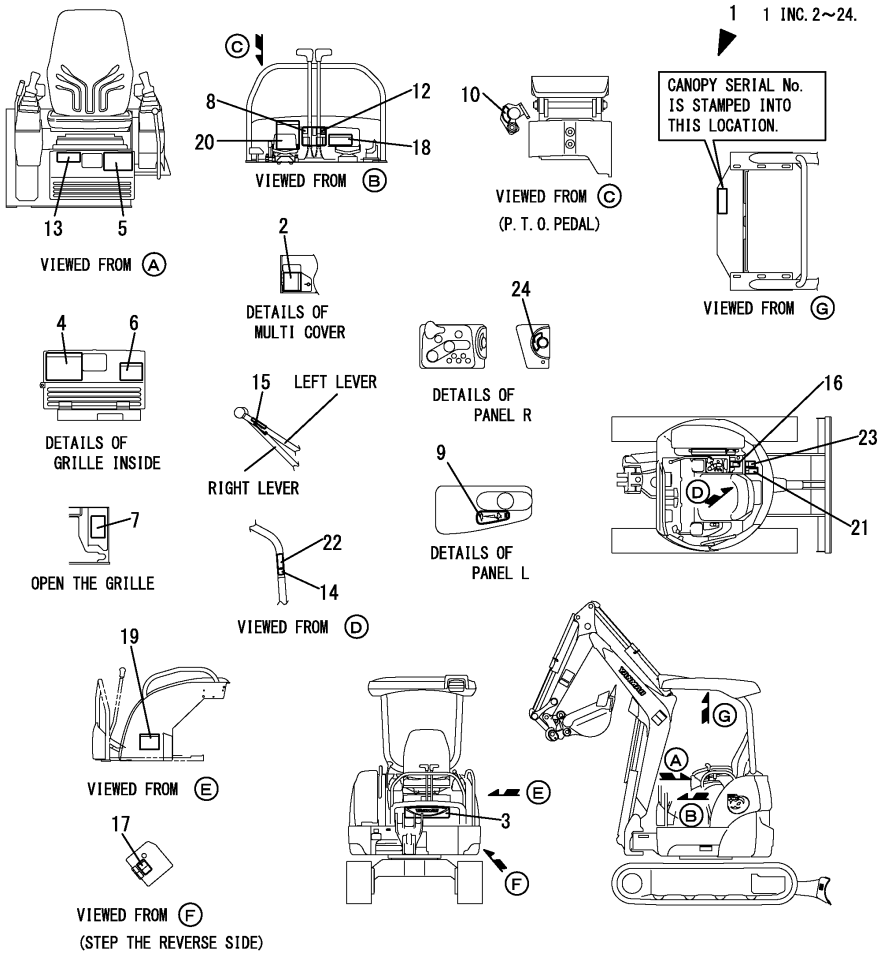
SAFTY LABEL



Fig.3. LABEL(CANOPY)(TO MBF000)

(A)=VIO20-3B P(KR)
(B)=
(C)=

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

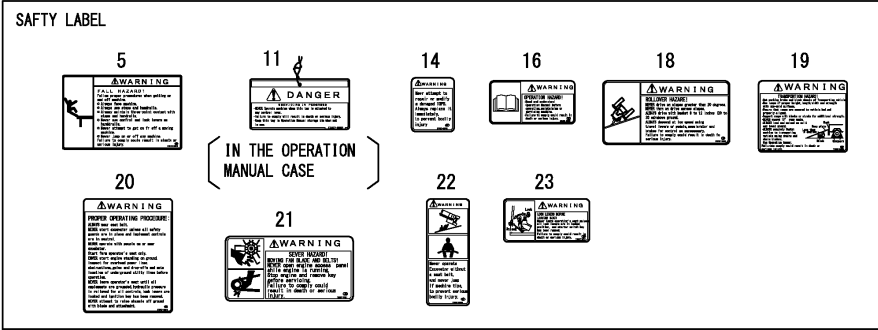
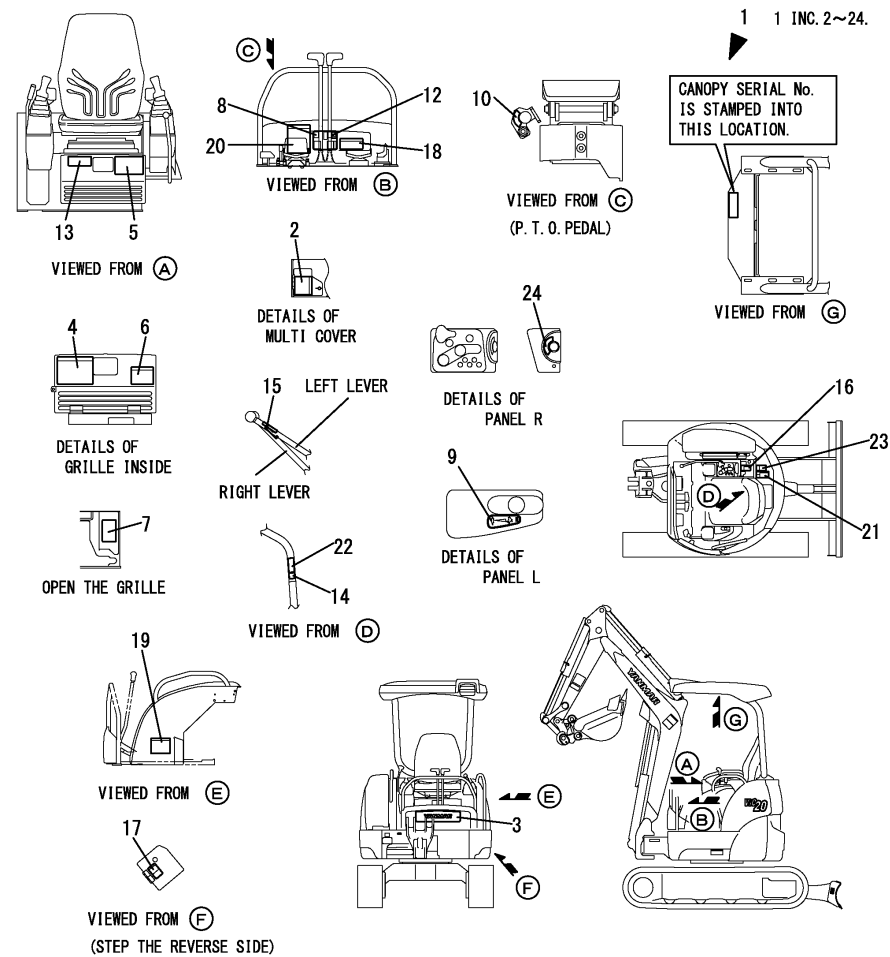


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A36-08220	LABEL SET,CNP AS KR	1							
2	2	172437-03242	LABEL, CRAWLER	1							
3	2	172A64-03120	LABEL,VIO17 FRONT	1							
4	2	172469-03140	LABEL,OIL&WATER	1							
5	2	172472-03141	LABEL, SUPPORT	1							
6	2	172472-03160	LABEL,GREASE	1							
7	2	172472-03171	LABEL,FUSE US	1							
8	2	172490-03200	LABEL, OPERATION	1							
9	2	172458-03220	LABEL, ACCELERATOR	1							
10	2	172458-03240	LABEL, LOCK	1							
11	2	172437-03252	TAG ASSY, CAUTION	1							
12	2	172496-03250	LABEL, PTO	1							
13	2	172A36-03250	LABEL,SPEC KR T4	1							
14	2	172499-03270	LABEL, TOPS	1							
15	2	172183-03280	LABEL, LOCK	2							
16	2	172437-03302	LABEL, MANUAL	1							
17	2	172438-03300	LABEL, PTO SELECT	1							
18	2	172437-03312	LABEL, SLOPE	1							
19	2	172437-03343	LABEL, TRANSPORT	1							
20	2	172437-03372	LABEL, NEUTRAL	1							
21	2	172A36-03411	LABEL, ENGINE ROOM	1							
22	2	172437-03451	LABEL, SEAT BELT	1							
23	2	172437-03471	LABEL, LEVER LOCK	1							
24	2	172A64-03700	LABEL, START SWITCH	1							

Fig.94. (3A)LABEL(CANOPY)(FROM MBF001)

(A)=VIO20-3B P(KR)
(B)=
(C)=

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

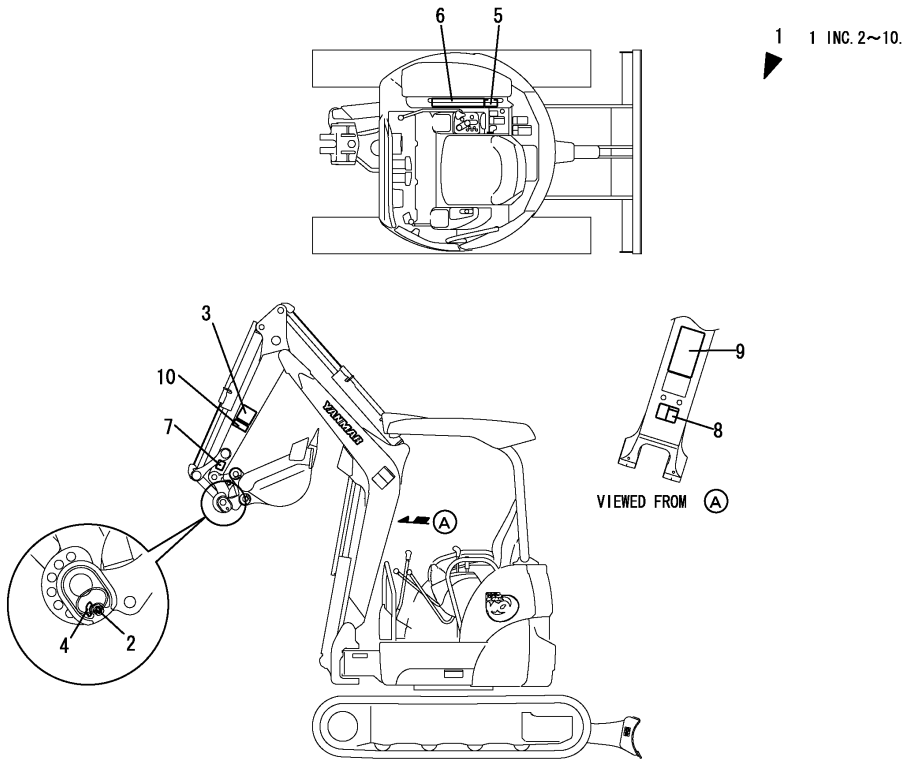


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A36-08221	LABEL SET,CNP AS KRD	1							
2	2	172437-03242	LABEL, CRAWLER	1							
3	2	172A86-03750	LABEL,YANMAR 280 B	1							
4	2	172469-03140	LABEL,OIL&WATER	1							
5	2	172472-03141	LABEL, SUPPORT	1							
6	2	172472-03160	LABEL,GREASE	1							
7	2	172472-03171	LABEL,FUSE US	1							
8	2	172490-03200	LABEL, OPERATION	1							
9	2	172458-03220	LABEL, ACCELERATOR	1							
10	2	172458-03240	LABEL, LOCK	1							
11	2	172437-03252	TAG ASSY, CAUTION	1							
12	2	172496-03250	LABEL, PTO	1							
13	2	172A36-03250	LABEL,SPEC KR T4	1							
14	2	172499-03270	LABEL, TOPS	1							
15	2	172183-03280	LABEL, LOCK	2							
16	2	172437-03302	LABEL, MANUAL	1							
17	2	172438-03300	LABEL, PTO SELECT	1							
18	2	172437-03312	LABEL, SLOPE	1							
19	2	172437-03343	LABEL, TRANSPORT	1							
20	2	172437-03372	LABEL, NEUTRAL	1							
21	2	172A36-03411	LABEL, ENGINE ROOM	1							
22	2	172437-03451	LABEL, SEAT BELT	1							
23	2	172437-03471	LABEL, LEVER LOCK	1							
24	2	172A64-03700	LABEL, START SWITCH	1							

(A)=VIO20-3B P(KR)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A36-08230	LABEL SET,Q KR	1							
2	2	172958-03160	LABEL	1							
3	2	172472-03230	LABEL, OPERATION	1							
4	2	172458-03240	LABEL, LOCK	1							
5	2	172472-03241	LABEL, PIN US	1							
6	2	172472-03250	LABEL, OPERATION	1							
7	2	172472-03261	LABEL, FINGER	1							
8	2	172472-03271	LABEL, SANDUS	1							
9	2	172472-03281	LABEL, WARNING HITCH	1							
10	2	172472-03330	LABEL, LOCK PIN	1							



SAFTY LABEL

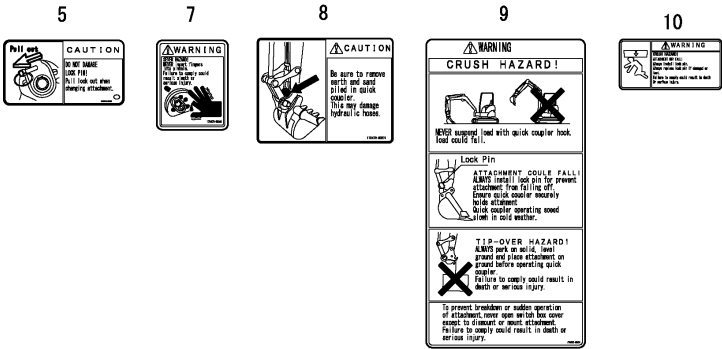
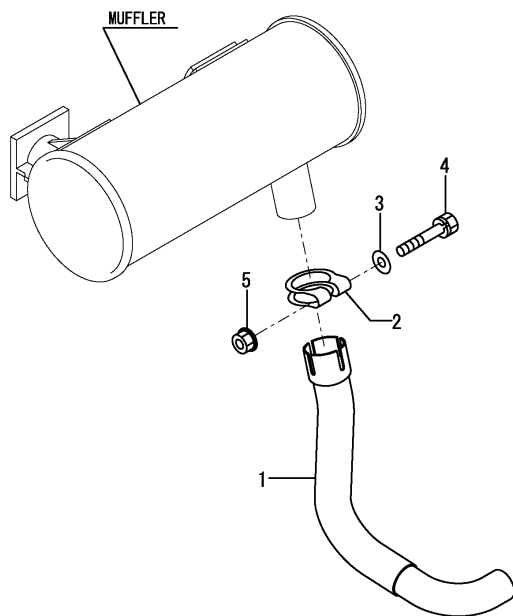
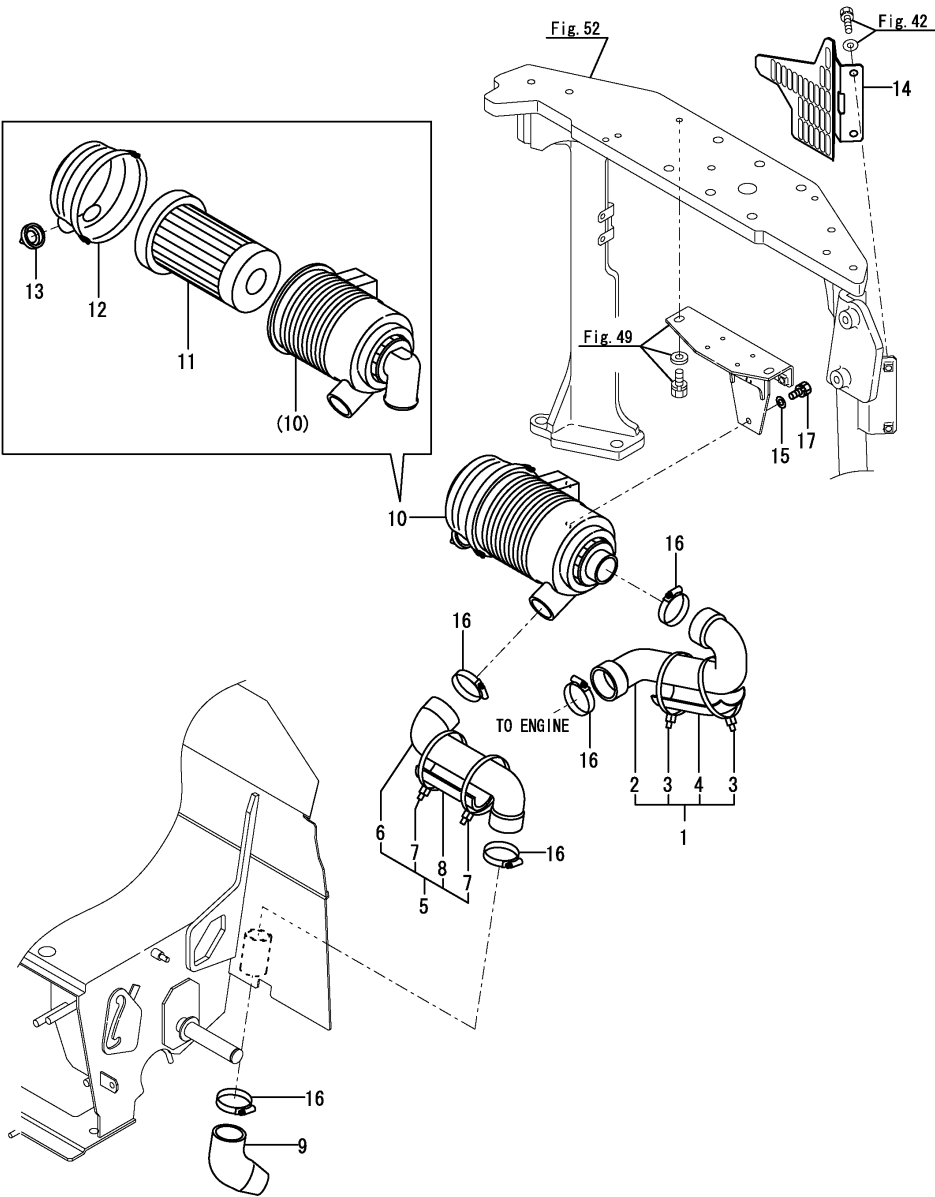


Fig.5. MUFFLER

[illegible]

(A)=VIO20-3B P(KR)
(B)=
(C)=

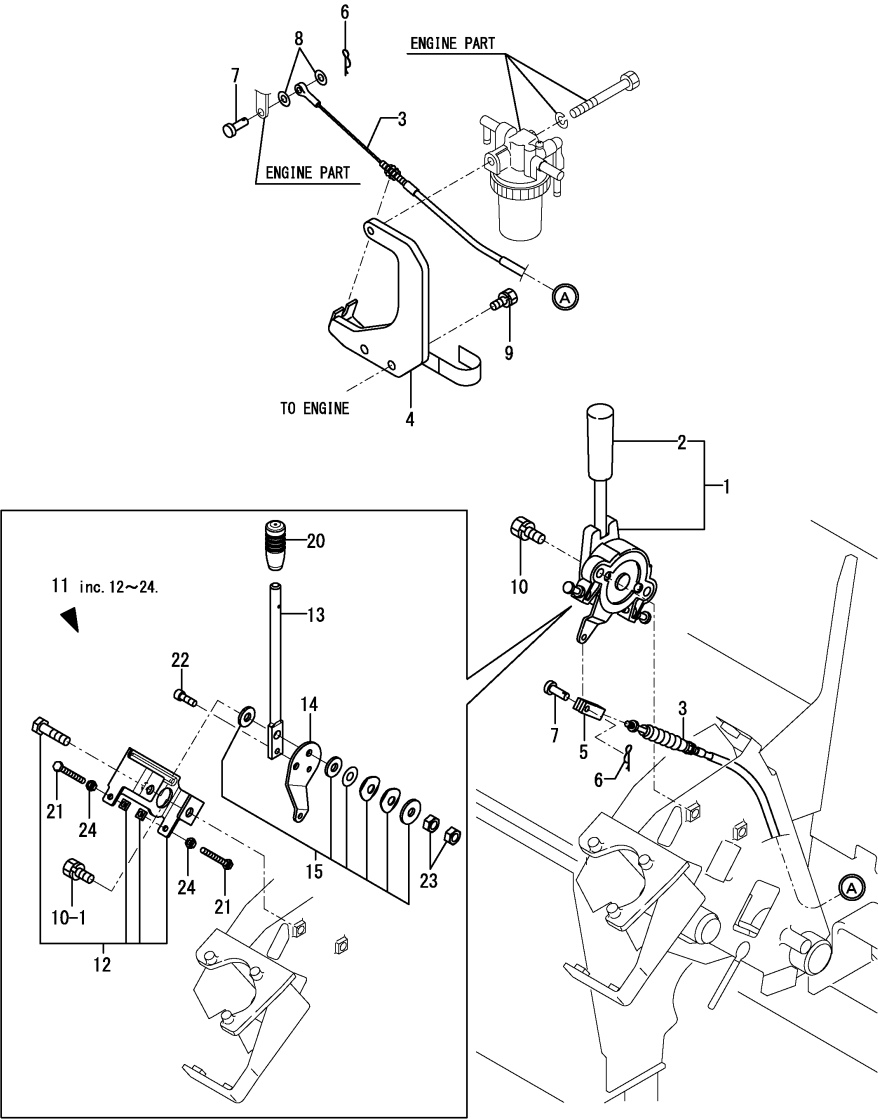
(D)=
(E)=
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A23-11470	HOSE A ASSY,AIRCLEAN	1							
2	2	172A23-11490	HOSE A, AIR CLEANER	1							
3	2	172126-11510	BAND	2							
4	2	172A23-11600	INSULATOR	1							
5	1	172A23-11480	HOSE B ASSY,AIRCLEAN	1							
6	2	172A23-11500	HOSE B, AIR CLEANER	1							
7	2	172126-11510	BAND	2							
8	2	172A23-11600	INSULATOR	1							
9	1	172456-11501	HOSE, AIR CLEANER C	1							
10	1	172456-11510	CLEANER ASSY, AIR	1							
11	2	119808-12520	ELEMENT	1							
12	2	119866-12530	COVER ASSY	1							
13	2	119808-12540	VALVE, UNLOADER	1							
14	1	172487-65160	GUARD, MUFFLER	1							
15	1	22137-080000	WASHER, 8	2							
16	1	23000-060000	CLAMP, 60	5							
17	1	26013-080202	BOLT, M8X 20	2							

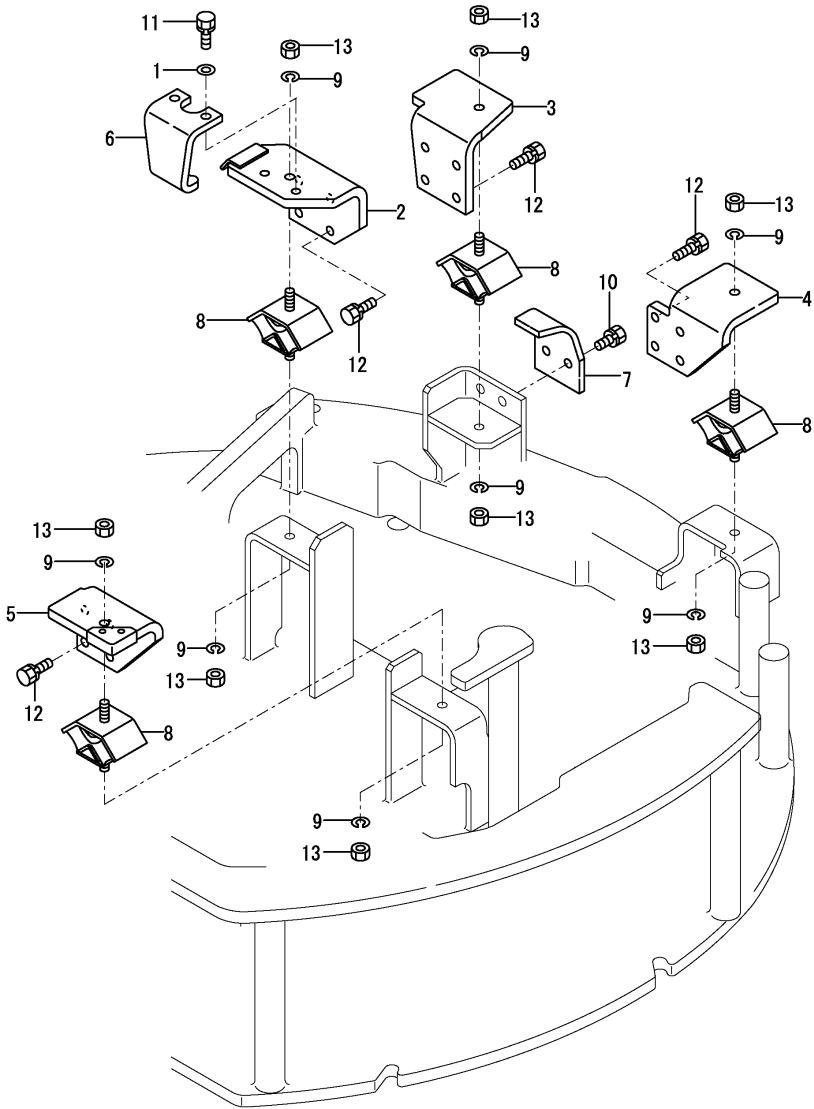
(A)=VIO20-3B P(KR)
(B)=
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172458-12100 (A=MBF018)	LEVER, ACCELERATOR	1						Z	1
2	2	172A79-12150	GRIP	1							
3	1	172469-12111	CABLE, ACCELERATOR	1							
4	1	172487-12220	BRACKET	1							
5	1	172137-12270	JOINT, CABLE	1							
6	1	1C6281-52310	PIN, SNAP 6	2							
7	1	1A1040-56900	PIN, FLAT HEAD 6X17	2							
8	1	22137-060000	WASHER, 6	2							
9	1	26013-080162	BOLT, SPRING M8X 16	2							
10	1	26013-100252	BOLT, SPRING M10X 25	2							
10-1	1	26013-100202	BOLT, M10X 20	2						S	
11	1	172458-12101 (A=MBF018)	LEVER ASSY, ACCEL.	1						W	
12	2	172458-12150	BRACKET ASSY, ACCEL.	1							
13	2	172458-12170	LEVER, ACCEL	1							
14	2	172458-12180	PLATE	1							
15	2	172458-12200	SPRING SET	1							
20	2	172498-12250	GRIP, ACCELERATOR	1							
21	2	26117-060554	BOLT M 6X 55	2							
22	2	26450-060102	BOLT, M6X 10	1							
23	2	26757-100002	NUT, LOCK M10	2							
24	2	26857-060002	NUT, M6	2							

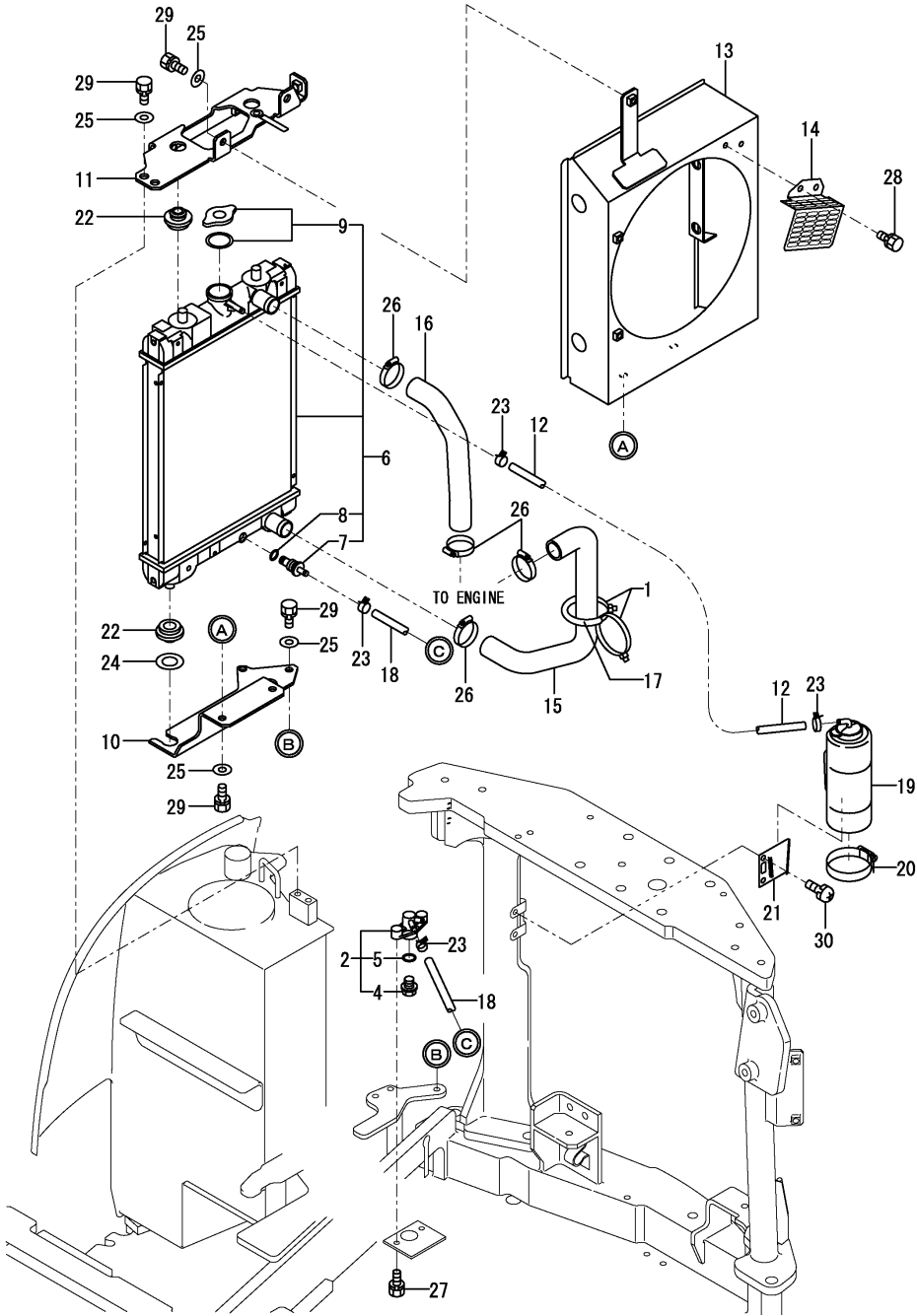
Remarks
(1)Interchangeable by simultaneous replacement with No.10-1 & 11.



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194145-04810	WASHER	2							
2	1	172487-13091	MOUNT ASSY,ENG LF	1							
3	1	172487-13101	MOUNT RF, ENG	1							
4	1	172456-13120	MOUNT RR,ENG	1							
5	1	172A23-13121	MOUNT ASSY,ENG LR	1							
6	1	172456-13140	STOPPER	1							
7	1	172456-13150	STOPPER	1							
8	1	172179-13211	RUBBER, ANTI VIBRAT.	4							
9	1	22217-100000	WASHER, SPRING 10	8							
10	1	26013-100202	BOLT, M10X 20	2							
11	1	26013-100252	BOLT, M10X 25	2							
12	1	26013-100252	BOLT, M10X 25	16							
13	1	26716-100002	NUT, M10	8							

(A)=VIO20-3B 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	2							
2	1	172444-13210	COCK ASSY, 2-WAY	1							
4	2	121250-49121	PLUG, DRAIN	1							
5	2	24311-000160	O-RING, 1AP16.0	1							
6	1	172482-13300	RADIATOR ASSY	1							
7	2	172460-13230	PLUG, DRAIN COCK	1							
8	2	172460-13240	O-RING	1							
9	2	172456-13310	CAP ASSY	1							
10	1	172A23-13310	BRACKET,RADIATOR	1							
11	1	172A23-13320	BRACKET ASSY,RADIATO	1							
12	1	172157-13381	HOSE	1							
13	1	172A23-13411	SHROUD ASSY	1							
14	1	172A23-13460	GUARD, FAN	1							
15	1	172A23-13510	PIPE, WATER	1							
16	1	172A23-13520	PIPE, WATER	1							
17	1	172A23-13530	HOSE	1							
18	1	172734-14620	HOSE, FUEL	1							
19	1	119813-44510	TANK ASSY	1							
20	1	124450-44550	BAND	1							
21	1	121256-44600	BRACKET, SUB TANK	1							
22	1	119255-44660	ABSORBER	4							
23	1	124766-59050	CLIP, HOSE 11.5	4							
24	1	172156-81430	SHIM	1							
25	1	22137-100000	WASHER, 10	8							
26	1	23001-041000	CLAMP, HOSE 41	4							
27	1	26013-080162	BOLT, M8X 16	2							
28	1	26013-080162	BOLT, M8X 16	2							
29	1	26013-100202	BOLT, M10X 20	8							
30	1	26022-080162	SCREW, M8X16	2							

Fig.10. DUCT

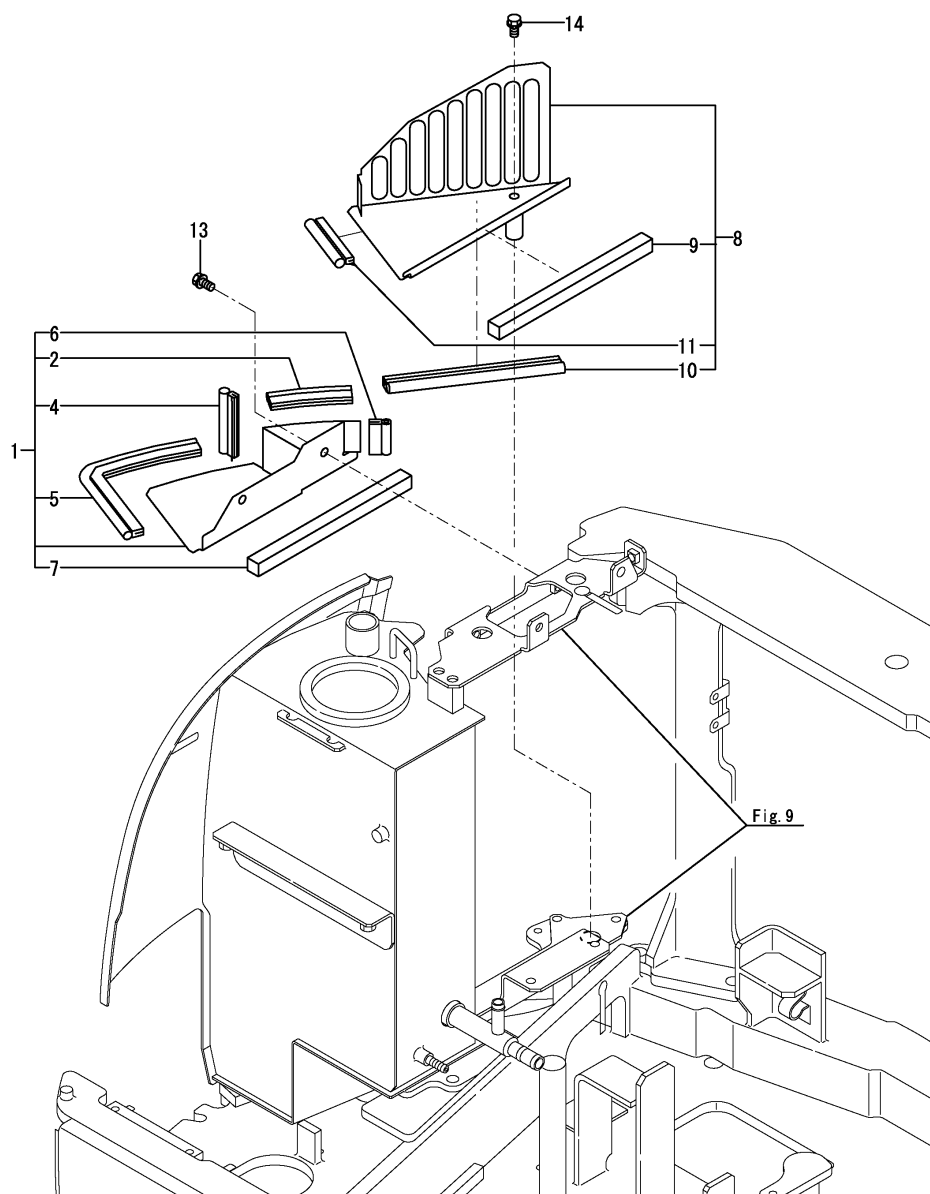


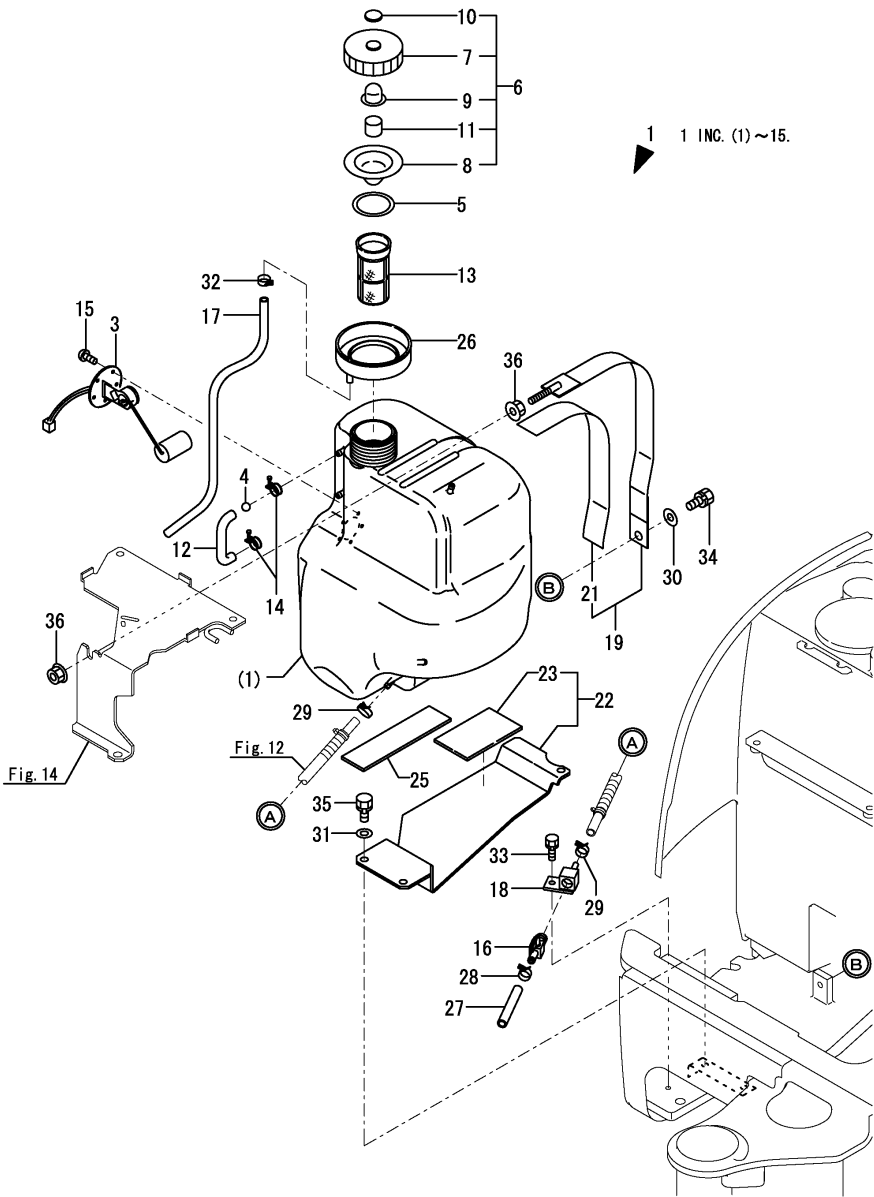
Fig. 9

(A)=VIO20-3B P(KR)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A23-65700-1	DUCT ASSY	1							
2	2	172455-63660	SEAL, RUBBER	1							
4	2	172456-65790	RUBBER, SEAL	1							
5	2	172164-66480	RUBBER 340, SEAL	1							
6	2	172164-66800	RUBBER, SEAL 60	1							
7	2	172480-75260	SEAL, RESERVER	1							
8	1	172A23-65750-3	DUCT ASSY	1							
9	2	172480-13520	SEAL	1							
10	2	172444-54910	SEAL, WEIGHT	1							
11	2	172164-61250	RUBBER, SEAL	1							
13	1	26013-100202	BOLT, M10X 20	2							
14	1	26013-100752	BOLT, M10X 75	1							

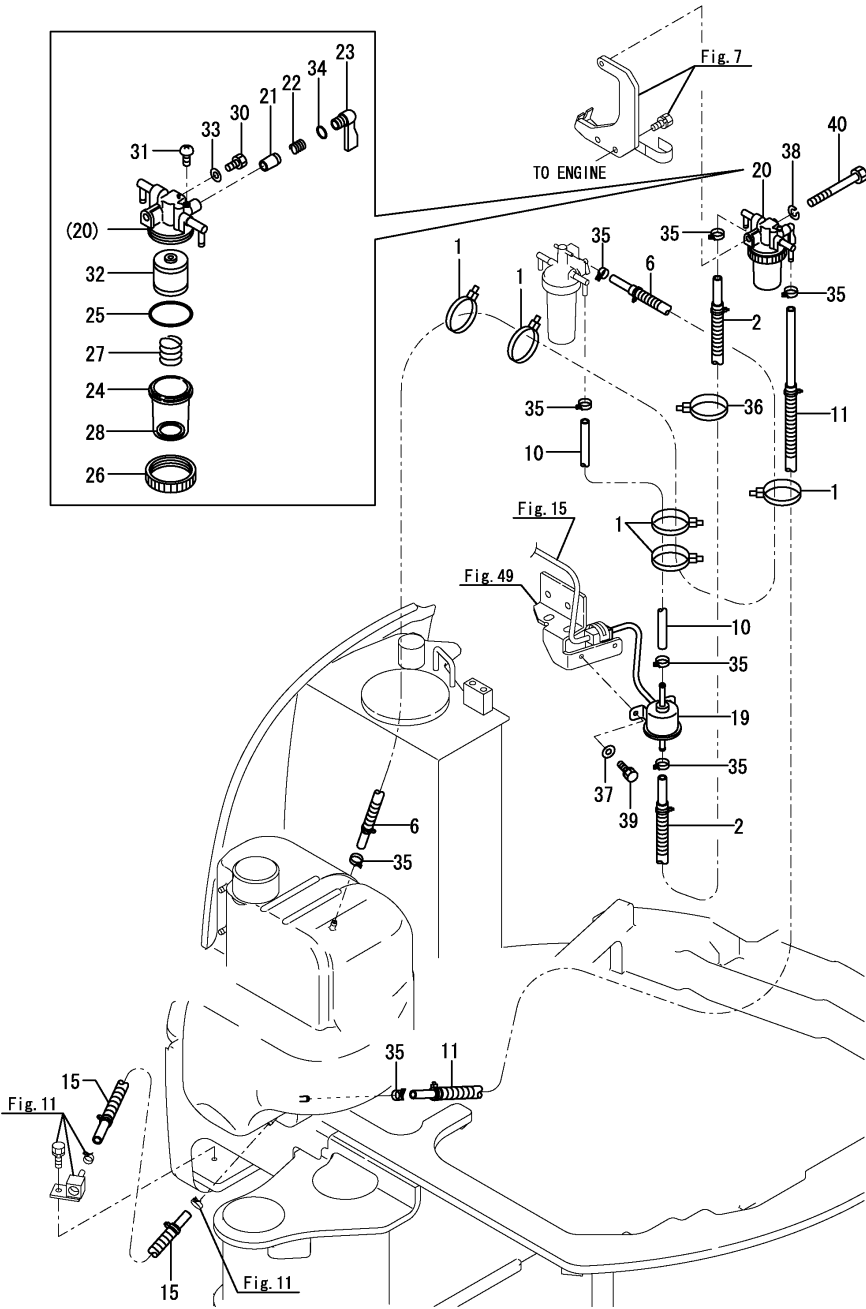
Fig.11. FUEL TANK



(A)=VIO20-3B P(KR)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	772456-14112	TANK ASSY, FUEL	1							
3	2	172456-14152	GAUGE, FUEL	1							
4	2	172447-14160	FLOAT	1							
5	2	172162-14200	GASKET	1							
6	2	172444-14200	CAP, FUEL	1							
7	3	172444-14450	CAP	1							
8	3	172444-14460	PACKING, RUBBER	1							
9	3	172444-14470	PACKING, RUBBER	1							
10	3	172444-14480	WASHER	1							
11	3	172444-14490	SPONGE	1							
12	2	172458-14203	HOSE, FUEL GAUGE	1							
13	2	172183-14250	FILTER, FUEL	1							
14	2	23000-013000	CLAMP, 13	2							
15	2	26022-050122	SCREW, M5X12	5							
16	1	172A69-14230	VALVE, FUEL DRAIN	1							
17	1	172444-14260	HOSE,FUEL	1							
18	1	172444-14270	JOINT, DRAIN	1							
19	1	172456-14300	CLAMP ASSY, FUEL	1							
21	2	172456-14330	RUBBER, CLAMP	1							
22	1	172456-14341	PLATE ASSY	1							
23	2	172444-14130	PLATE, RUBBER	1							
25	1	172458-14340	PLATE, RUBBER	1							
26	1	172458-14370	SUMP, FUEL	1							
27	1	172444-14410	HOSE, DRAIN	1							
28	1	106990-44660	CLIP, HOSE 12.5	1							
29	1	124766-59050	CLIP, HOSE 11.5	2							
30	1	22137-100000	WASHER, 10	1							
31	1	22137-100000	WASHER, 10	3							
32	1	23080-013000	CLAMP, 13	1							
33	1	26013-080202	BOLT, M8X 20	1							
34	1	26013-100202	BOLT, M10X 20	1							
35	1	26013-100202	BOLT, M10X 20	3							
36	1	26367-100002	NUT, M10	2							

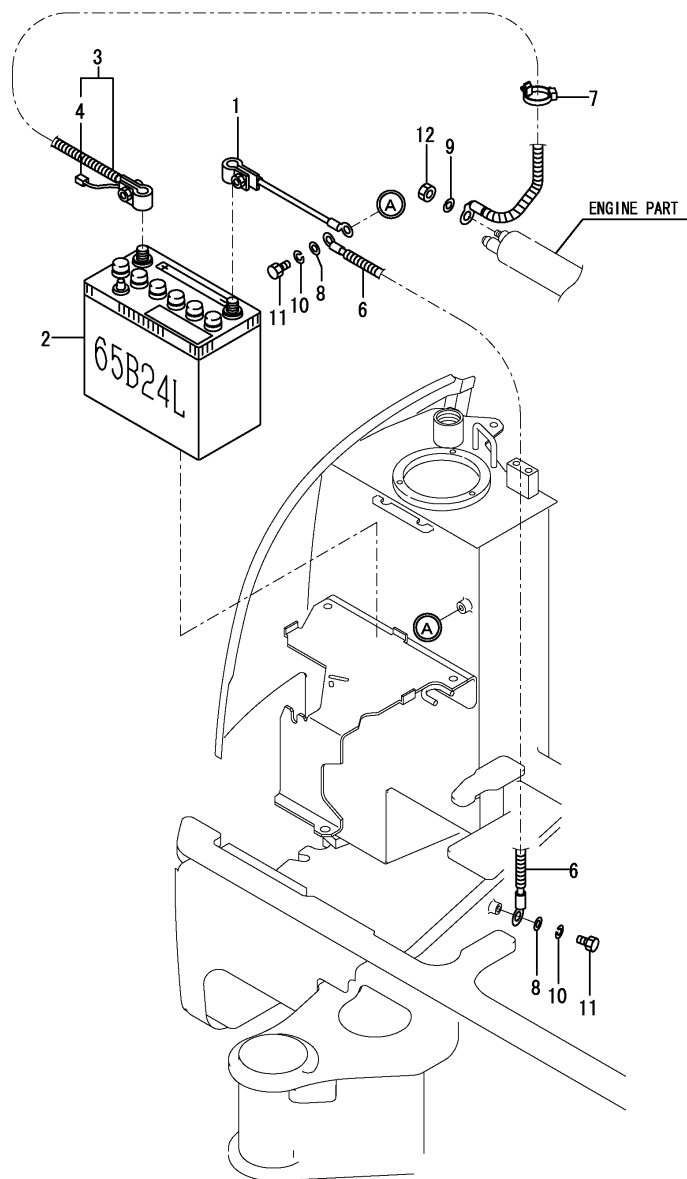


(A)=VIO20-3B P(KR)
(B)=
(C)=

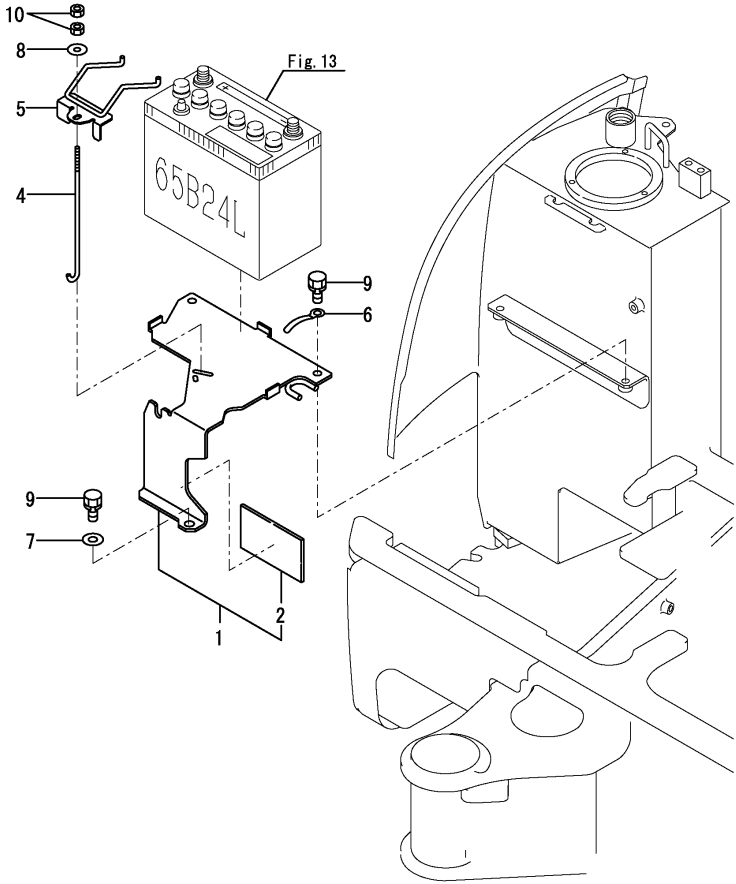
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172126-11510	BAND	5							
2	1	172186-13810	HOSE ASSY	1							
6	1	172487-14520	HOSE	1							
10	1	172171-14610	HOSE, FUEL	1							
11	1	172456-14610	HOSE,FO1470 ASSY	1							
15	1	172456-14630	HOSE,FO 150 ASSY	1							
19	1	129612-52100	PUMP ASSY, FUEL FEED	1							
20	1	129335-55701	SEPARATOR ASSY,WATER	1							
21	2	104200-55321	VALVE, TAPER	1							
22	2	104200-55330	SPRING, VALVE	1							
23	2	104200-55341	HANDLE	1							
24	2	124064-55510	COVER	1							
25	2	102103-55520	O-RING	1							
26	2	110250-55610	RING, RETAINING	1							
27	2	121257-55720	SPRING	1							
28	2	121257-55731	FLOAT	1							
30	2	101720-55750	PLUG, 6	2							
31	2	104200-55750	SCREW, M4	1							
32	2	171081-55910	SCREEN	1							
33	2	23418-060000	GASKET, 6X1.0	2							
34	2	24311-240100	O-RING, 1AP10A	1							
35	1	124766-59050	CLIP, HOSE 11.5	8							
36	1	172122-79930	CLAMP, HOSE	1							
37	1	22137-060000	WASHER, 6	2							
38	1	22217-080000	WASHER, SPRING 8	1							
39	1	26013-060162	BOLT, M6X 16	2							
40	1	26116-080702	BOLT, M8X 70 PLATED	1							

Fig.13. BATTERY



				(A)=VIO20-3B P(KR)					(D)=	
				(B)=					(E)=	
				(C)=					(F)=	
No.	Lev.	Parts No.	Description	Q'ty						
				(A)	(B)	(C)	(D)	(E)	(F)	
1	1	172444-16111	HARNES,BATTERY(-)	1						
2	1	172458-16110	BATTERY	1						
3	1	172456-16200	CORD, BATTERY	1						
4	2	172458-16140	HARNESS, WIRE	1						
6	1	172456-16210	CORD, BATTERY	1						
7	1	194680-51670	BAND, CLIP	1						
8	1	22137-080000	WASHER, 8	2						
9	1	22217-080000	WASHER, SPRING 8	1						
10	1	22217-080000	WASHER, SPRING 8	2						
11	1	26116-080162	BOLT, M8X 16 PLATED	2						
12	1	26716-080002	NUT, M8	1						



(A)=VIO20-3B P(KR)
(B)=
(C)=

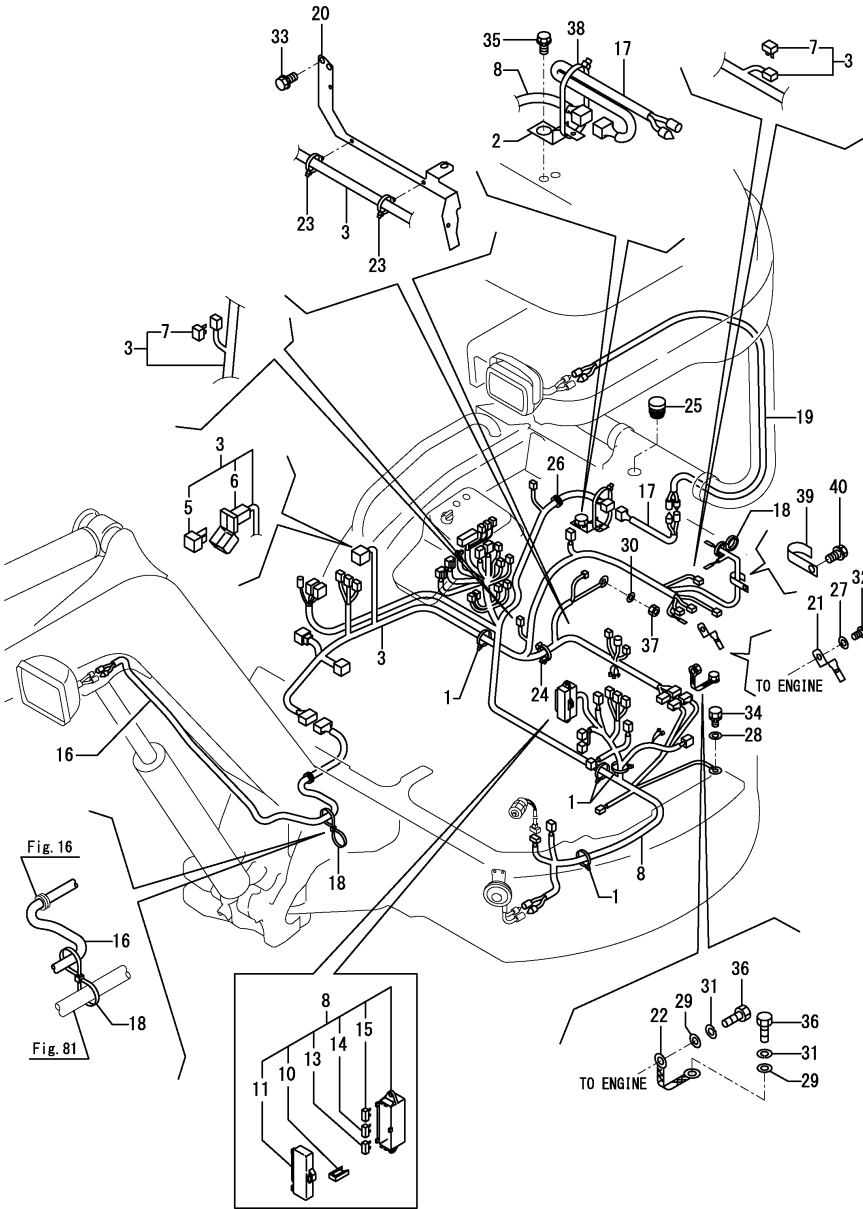
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-16101	BRACKET,BATTERY	1							
2	2	172444-14130	PLATE, RUBBER	1							
4	1	172725-16160	ROD, BATTERY CLAMP	1							
5	1	172458-16300	CLAMP ASSY, BATTERY	1							
6	1	172126-16540	CLAMP	1							
7	1	22137-100000	WASHER, 10	1							
8	1	22157-060000	WASHER, 6	1							
9	1	26013-100202	BOLT, M10X 20	3							
10	1	26716-060002	NUT, M6	2							

Fig.15. WIRING

(A)=VIO20-3B P(KR)
(B)=
(C)=

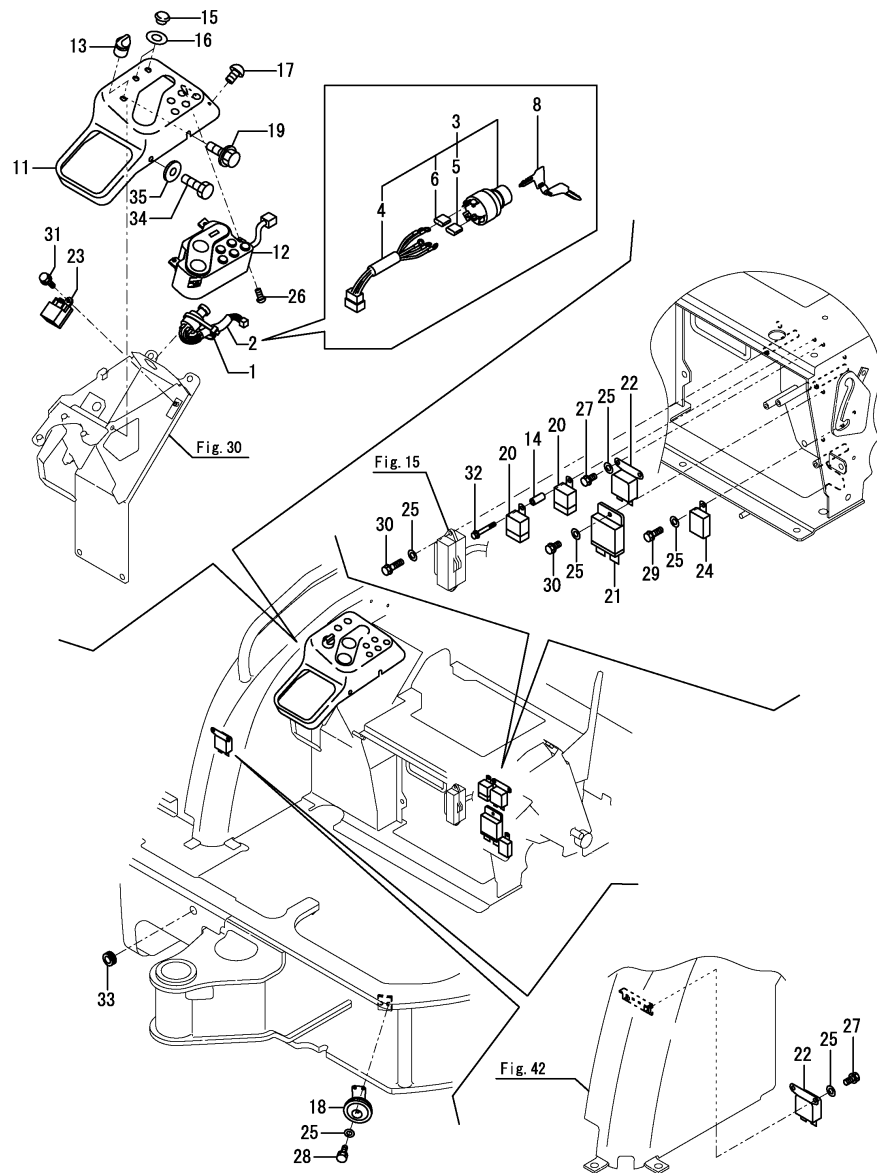
(D)=
(E)=
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172126-11510	BAND	8							
2	1	172A23-14200	SUPPORT, CONNECTOR	1							
3	1	172A23-16500	HARNESS ASSY ,A	1							
5	2	172458-16550	FUSE, SLOWBLOW	1							
6	2	172447-17140	HOUSING	1							
7	2	172648-16600	DIODE, 1.5-2P	2							
8	1	172A23-16523	HARNESS ASSY,B	1							
10	2	172175-17120	PULLER	1							
11	2	172187-17220	COVER	1							
13	2	29420-050000	FUSE, B 5A	2							
14	2	29420-150000	FUSE, B 15A	6							
15	2	29420-300000	FUSE, B 30A	2							
16	1	172456-16531	HARNESS, BOOM LAMP	1							
17	1	172A23-16540	HARNESS, WIRE	1							
18	1	172137-16560	BAND	2							
19	1	172458-16562	HARNESS, LAMP	1							
20	1	172A23-16600	SUPPORT ASSY	1							
21	1	172460-16700	STAY	1							
22	1	933171-15801	CORD, ENGINE EARTH	1							
23	1	194680-51670	BAND, CLIP	4							
24	1	194680-51670	BAND, CLIP	2							
25	1	172480-54150	PLUG	1							
26	1	172958-64500	PLUG	1							1
26-1	1	172958-64600	PLUG, BLACK 28	1						S	2
(A=MBF001)											
27	1	22137-080000	WASHER, 8	1							
28	1	22137-100000	WASHER, 10	1							
29	1	22137-120000	WASHER, 12	2							
30	1	22217-060000	WASHER, SPRING 6	1							
31	1	22217-120000	WASHER, SPRING 12	2							
32	1	26013-080162	BOLT, SPRING M8X 16	1							
33	1	26013-100162	BOLT, SPRING M10X 16	2							
34	1	26013-100202	BOLT, SPRING M10X 20	1							
35	1	26013-100202	BOLT, SPRING M10X 20	1							
36	1	26116-120162	BOLT, M12X 16 PLATED	2							
37	1	26716-060002	NUT, M6	1							
38	1	172126-11510	BAND	1							W
(A=M4B501)											
39	1	1A1380-59480	CLAMP, CORD	1							
40	1	26013-100162	BOLT, M10X 16	1							

Remarks
(1)Color = WARM GARY.
(2)Color = BLACK.

Fig.16. EQUIPMENT



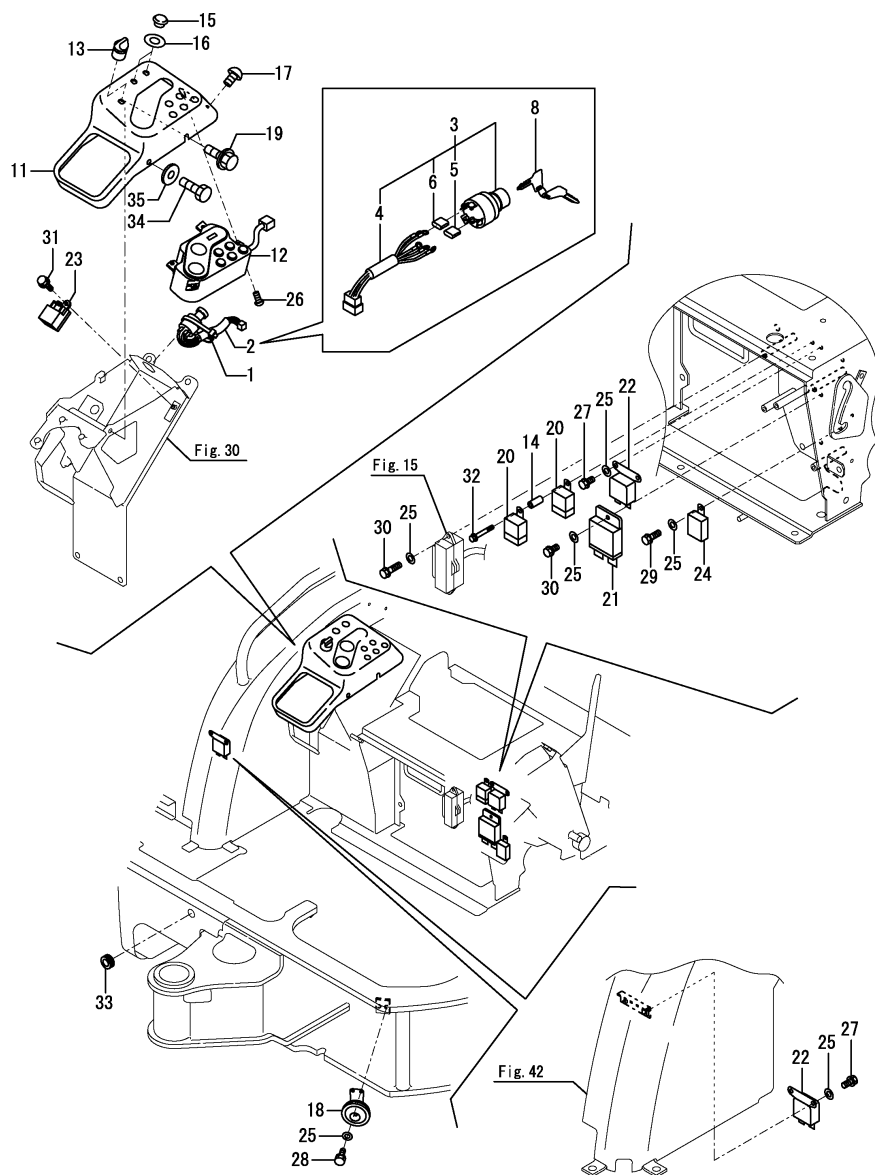
(1)Color = DARK OLIVE GRAY.
(2)Color = PANTONE 425C.

$$(F)=$$

Q'ty	I	R
------	---	---

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172126-11510	BAND, BINDING 300	1							
2	1	172187-17101	SWITCH ASSY, STARTER	1							
2-1	1	172527-17101	SWITCH ASSY, STARTER	1							R
(A=MBF295)											
3	2	172A47-17211	CYLINDER ASSY, KEY	1							
4	3	172187-17070	CORD ASSY	1							
5	3	172187-17080	COVER, PVC M5	3							
6	3	172187-17090	COVER, PVC M4	2							
8	2	933110-00301	KEY ASSY	1							
8-1	2	172524-17330	KEY ASSY, E	1							R
(A=MBF295)											
11	1	172A25-17200	PANEL, INSTRUMENT R	1							1
11-1	1	172A25-17300	COVER, INPANE P D	1							S 2
(A=MBF001)											
12	1	172A77-17250	MONITOR ASSY	1							
12-1	1	172A77-17251	MONITOR ASSY	1							N
(A=*2024.10.)											
13	1	172187-17280	SWITCH ASSY, LIGHT	1							1
13-1	1	172187-17760	SWITCH ASSY, LAMP D	1							S 2
(A=MBF001)											
13-2	1	172187-17761	SWITCH ASSY, LAMP D	1							R 2
(A=*2024.10.)											
13-3	1	172187-17762	SWITCH ASSY, LAMP D	1							N 2
(A=*2024.12.)											
14	1	172A65-17480	COLLAR	1							
15	1	172187-17560	CAP, STEERING WHEEL	2							
16	1	172187-17570	GASKET	2							
17	1	172458-46720	BOLT, BUTTON	1							
17-1	1	172519-63240	BOLT, M8X16	1							R
(A=*2015.06.)											
18	1	194151-57100	HORN	1							
19	1	172519-63240	BOLT, M8X16	3							
19-1	1	172519-63240	BOLT, M8X16	2							K
(A=*2015.06.)											
20	1	119247-77100	RELAY, POWER SN2213	2							
21	1	119802-77200	RELAY, SAFETY	1							
22	1	119650-77911	RELAY ASSY, GLOW	2							
23	1	124970-77920	TIMER, GLOW PLUG	1							
24	1	129211-77920	TIMER, SECTION 1	1							
25	1	22137-060000	WASHER, 6	10							
26	1	22877-400121	SCREW, 4X12	4							
27	1	26013-060122	BOLT, M6X 12	4							
28	1	26013-060122	BOLT, M6X 12	2							
29	1	26013-060162	BOLT, M6X 16	1							
30	1	26013-060202	BOLT, M6X 20	3							
31	1	26014-060202	BOLT, M6X 20	1							
32	1	26014-060402	BOLT, M6X 40	1							
33	1	933171-15680	GROMMET	1							
34	1	172487-63500	BOLT, 8X20	1							W
(A=*2015.06.)											
35	1	22137-080000	WASHER, 8	1							W

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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(1)Color = DARK OLIVE GRAY.
(2)Color = PANTONE 425C.

[illegible]

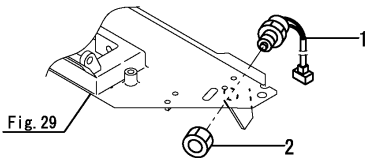
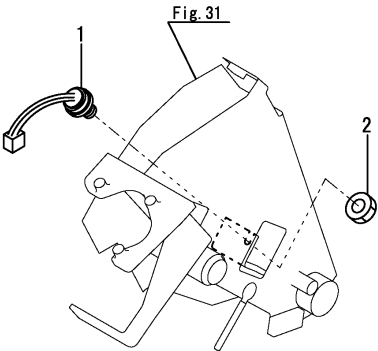
N:Old $\xrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.17. SWITCH (LIMIT)

(A)=VIO20-3B P(KR)
(B)=
(C)=

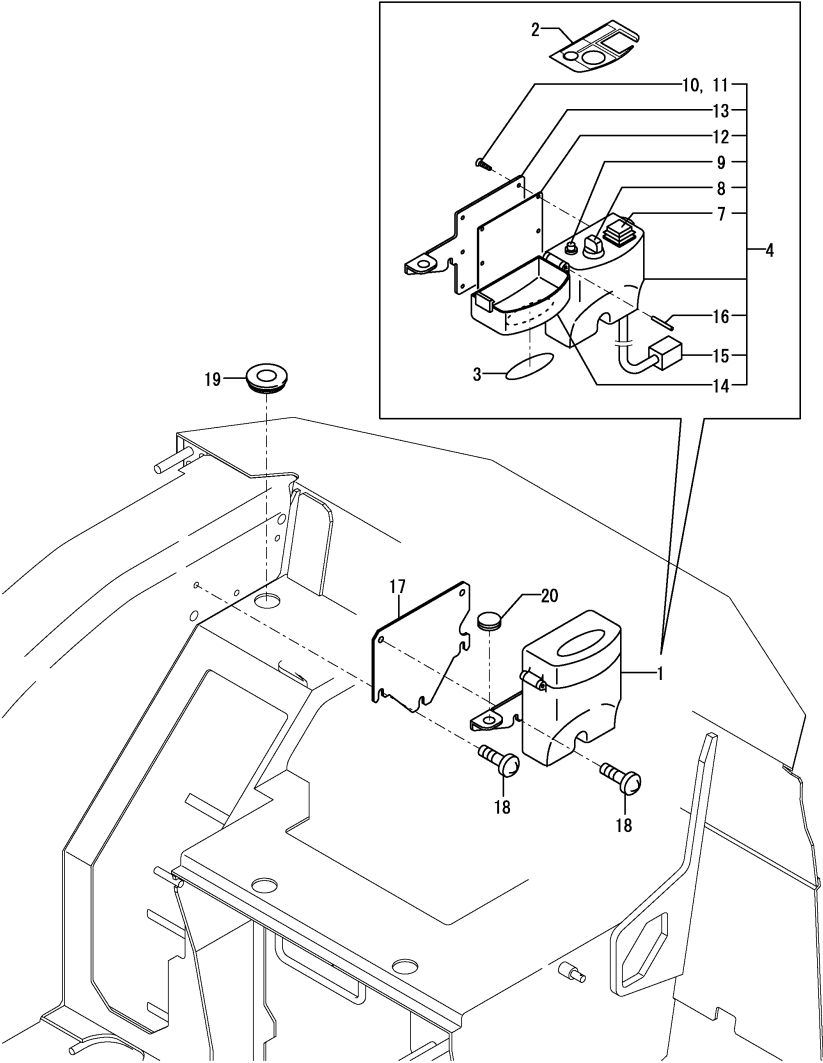
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194464-52190	SWITCH, SAFETY START	2							
2	1	26776-180002	NUT, LOCK M18	2							



0CK50-M00470 ELECTRICAL PARTS
Fig.18. QUICK COUPLER(SWITCH BOX)

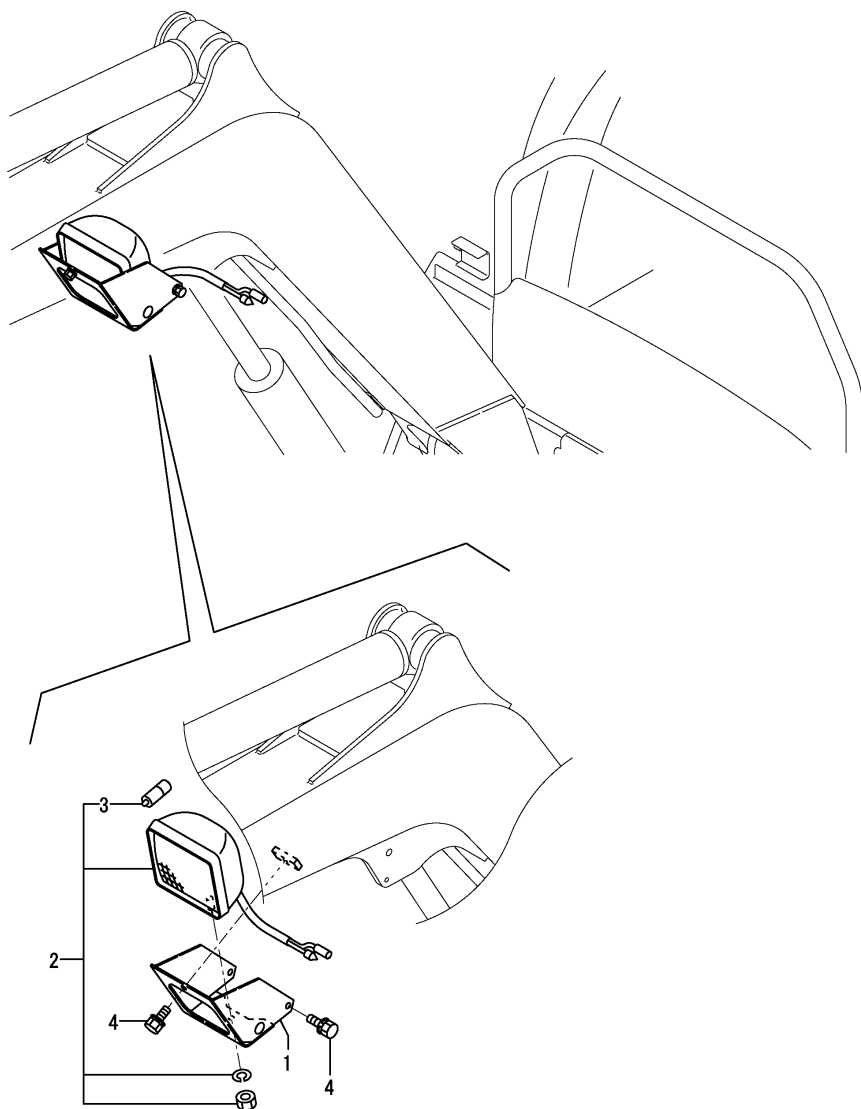
0CK50-M00470 Fig.18
(A)=VIO20-3B P(KR)
(B)=
(C)=
(D)=
(E)=
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172958-17111	BOX, SWITCH EX	1							1
1-1	1	172958-17410	BOX, SWITCH EX D	1						S	3
(A=MBF001)											
2	2	172472-03290	LABEL, SWITCH	1							
3	2	172472-03300	LABEL, COVER	1							
4	2	172958-17102	BOX, SWITCH	1							1
4-1	2	172958-17400	BOX, SWITCH D	1						S	3
(A=MBF001)											
7	3	172958-17140	SWITCH ASSY	1							
8	3	172958-17150	SWITCH ASSY	1							
9	3	172958-17160	LAMP, INDICATOR	1							
10	3	172958-17170	SCREW, TAPPING	6							
11	3	172958-17180	SCREW, TAPPING	2							
12	3	172958-17190	PACKING	1							
13	3	172958-17200	BRACKET	1							
14	3	172958-17210	CASE	1							1
14-1	3	172958-17230	CASE, UPPER	1						S	3
(A=MBF001)											
15	3	172958-17220	CORD	1							
16	3	22351-030028	PIN, SPRING 3.0X28	1							
17	1	172A30-17200	BRACKET ASSY, Q HITCH	1							
18	1	172137-46210	SCREW	5							
19	1	172958-64500	PLUG	1							2
19-1	1	172958-64600	PLUG, BLACK 28	1						S	4
(A=MBF001)											
20	1	172187-64900	PLUG	1							

Remarks
(1)Color = DARK OLIVE GRAY.
(2)Color = WARM GARY.
(3)Color = PANTONE 425C.
(4)Color = BLACK.

Fig.19. WORK LAMP



				(A)=VIO20-3B P(KR)			(D)=					
				(B)=			(E)=					
				(C)=			(F)=					
No.	Lev.	Parts No.	Description	Q'ty							I	R
				(A)	(B)	(C)	(D)	(E)	(F)			
1	1	172456-17401-Y	COVER ASSY, LAMP	1								
2	1	172458-17450	LAMP, WORK	1								
3	2	172187-17540	BULB	1								
4	1	26014-080202	BOLT, M8X 20	3								

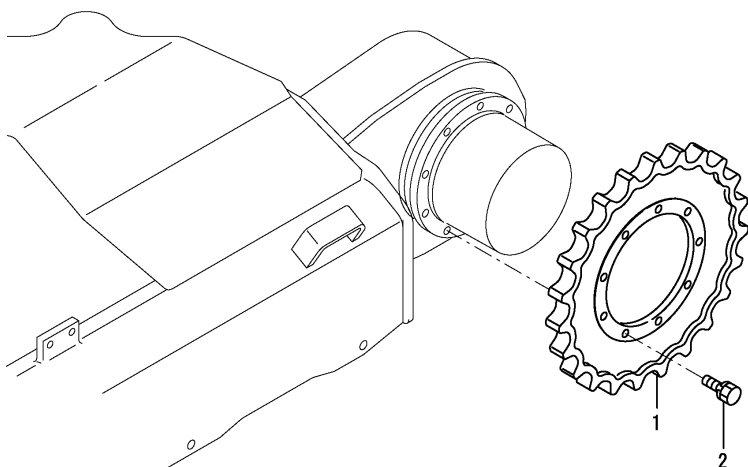
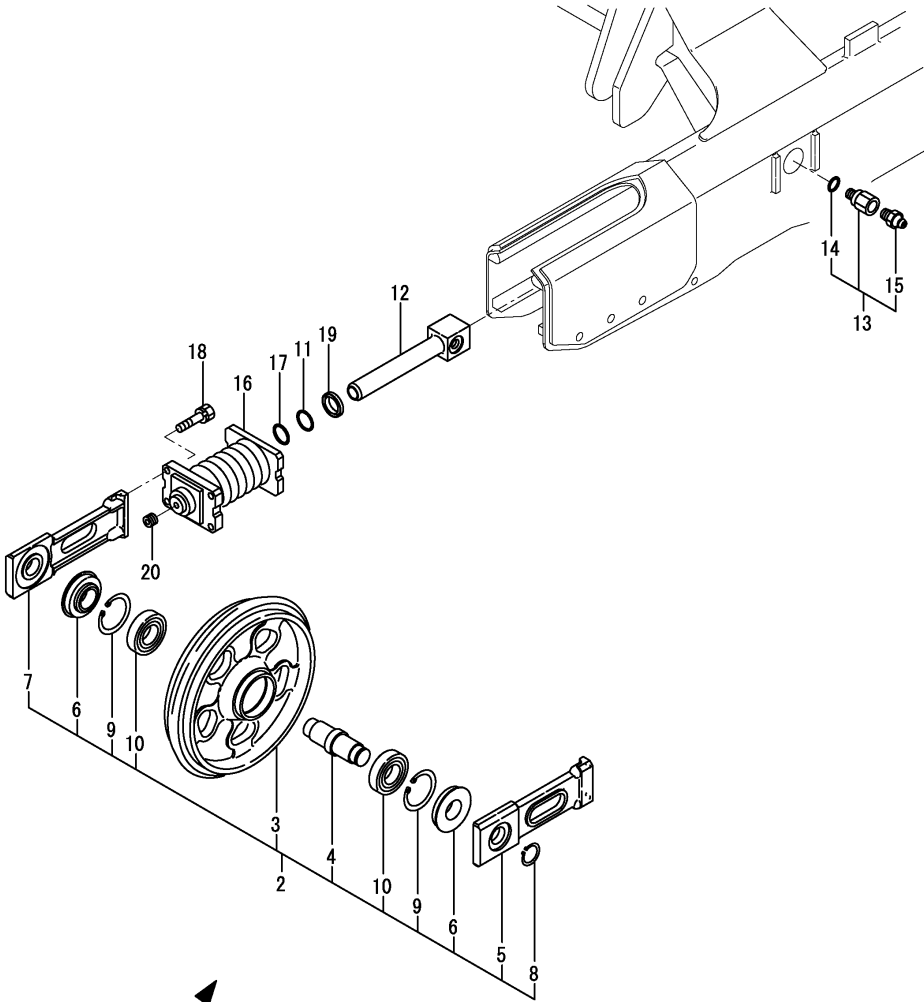
[illegible]

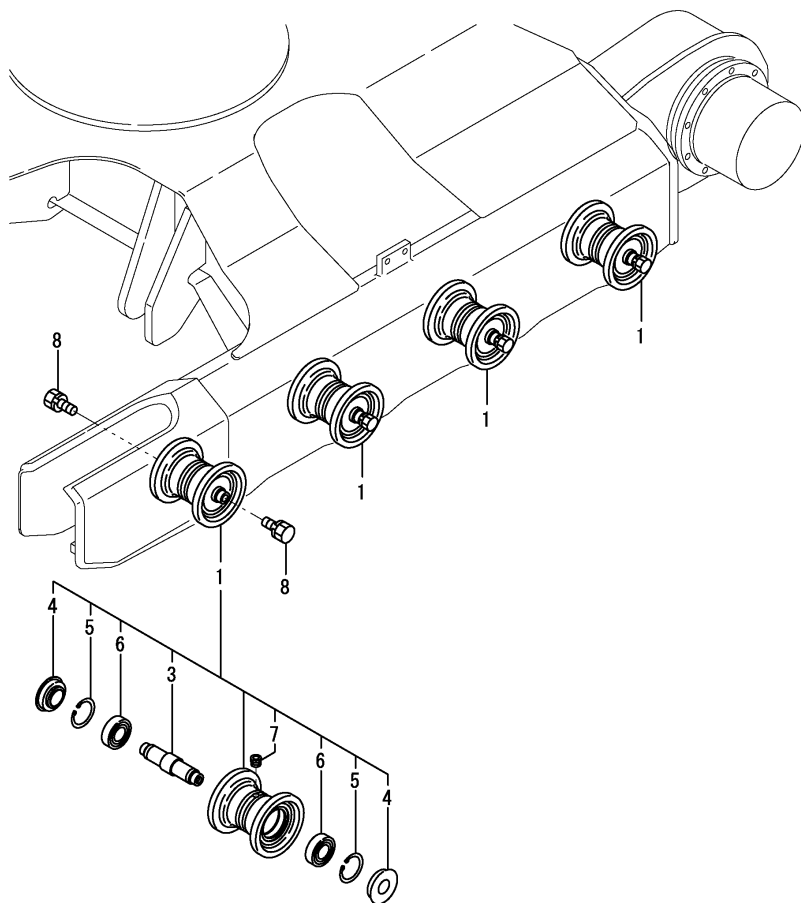
Fig.21. IDLER & ADJUST



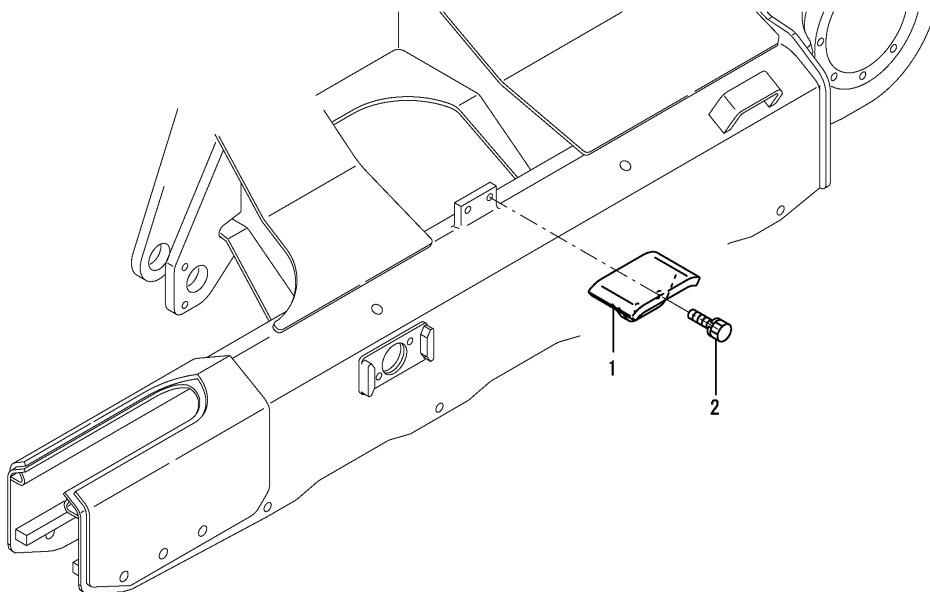
1 1 INC. 2~20.

0CK50-M00470 Fig.21

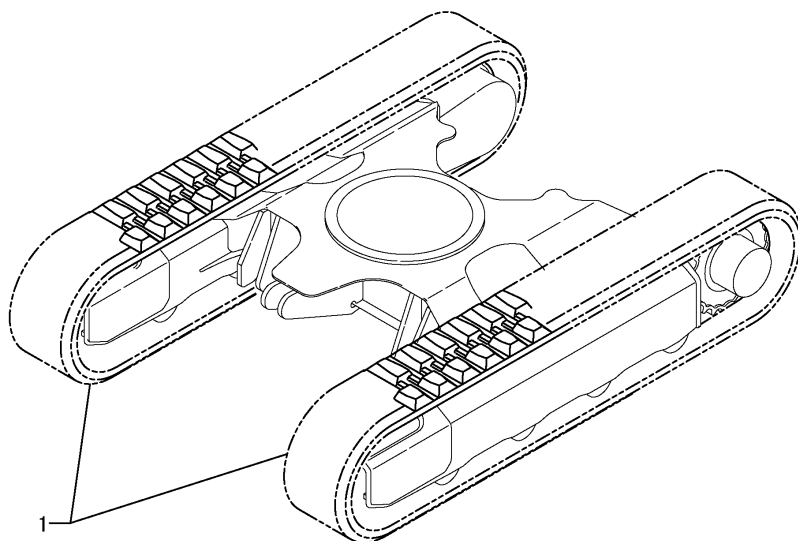
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	772456-37120-1	IDLER ASSY, RUBBER	2							
2	2	772456-37100-2	IDLER ASSY, RUBBER	2							
3	2	172456-37100-2	IDLER ASSY	2							
4	3	172456-37121	SHAFT, IDLER	2							
5	3	172456-37130	COVER, IDLER SEAL	2							
6	3	172141-37140	SEAL, 357220	4							
7	3	172456-37141	COVER, IDLER SEAL	2							
8	3	22242-000300	RING, 30	2							
9	3	22252-000720	RING, 72	4							
10	3	24101-062074	BEARING, BALL 6207	4							
11	2	172A23-37750	RING, BACK UP	2							
12	2	172456-37801	TUBE ASSY, ADJUST	2							
13	2	172122-37844	VALVE ASSY, NIPPLE	2							
14	3	24315-000140	O-RING, 1BP14.0	2							
15	3	24761-020000	NIPPLE, GREASE PT1/8	2							
16	2	172421-37853	SPRING ASSY, CRAWLER	2							
17	2	24315-000300	O-RING, 1BP30.0	2							
18	2	26013-100402	BOLT, M10X 40	8							
19	2	933126-38600	SEAL, DUST	2							
20	2	933171-13691	PLUG	2							



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A23-37300	ROLLER ASSY, LOWER	8							
3	2	172A23-37320	SHAFT	8							
4	2	1E6140-73420	SEAL, OIL QLF255218	16							
5	2	22252-000520	RING, 52	16							
6	2	24101-062054	BEARING, BALL 6205	16							
7	2	933171-13691	PLUG	8							
8	1	26013-120252	BOLT, M12X 25	16							



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-37500-2	PLATE, SHOE	2							
2	1	26013-100302	BOLT, M10X 30	4							

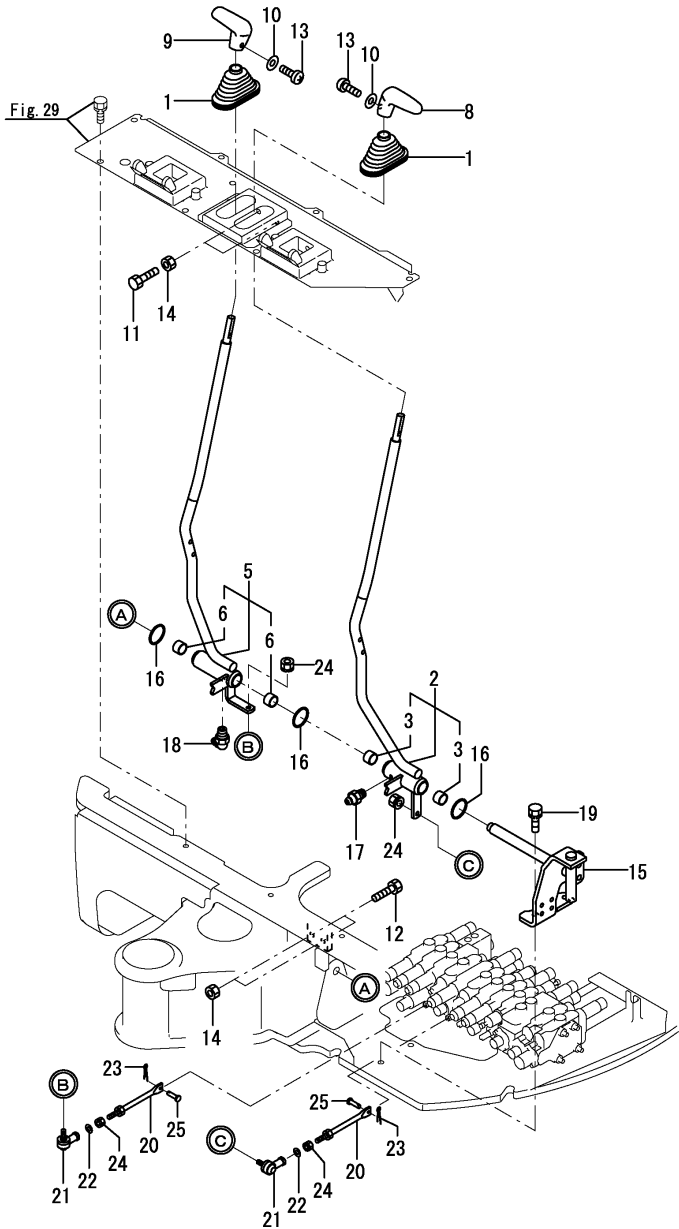


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172421-38601	CRAWLER, RUBBER 250	2							
1-1	1	172421-38602	CRAWLER, RUBBER 250	2							N
(A=*2024.09.)											

Fig.25. TRAVEL LEVER

(A)=VIO20-3B P(KR)
(B)=
(C)=

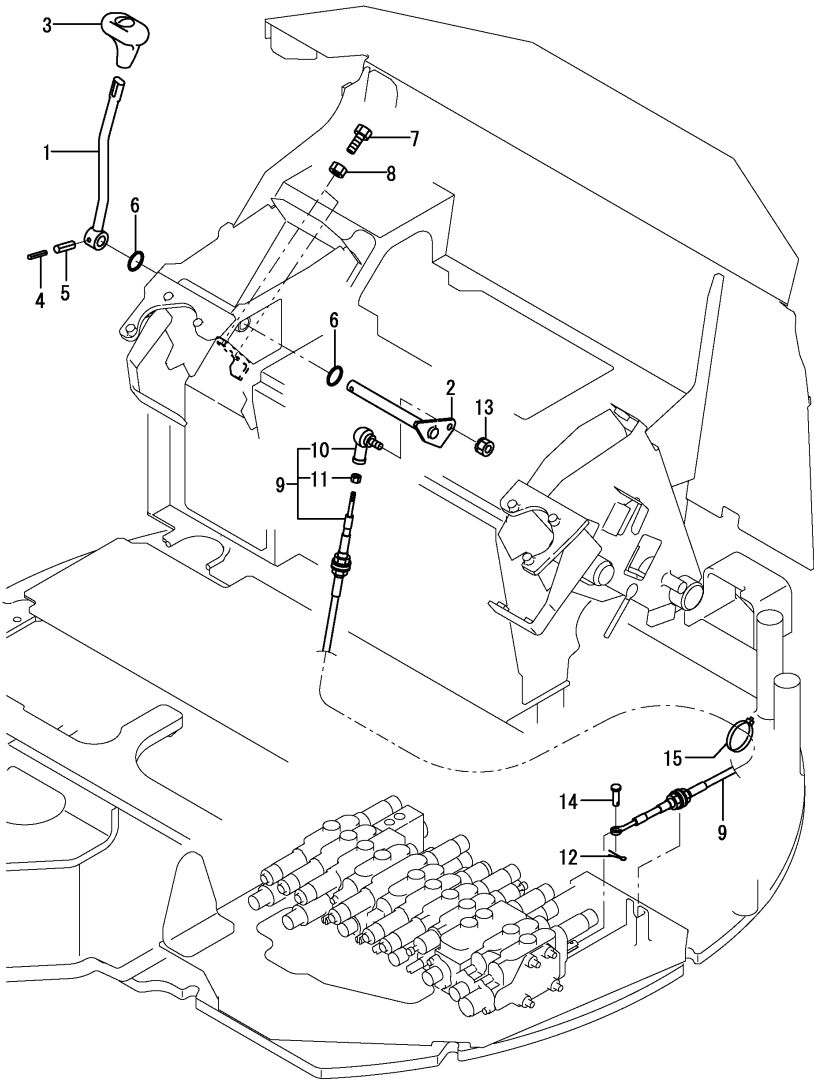
(D)=
(E)=
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172141-41340	BOOT	2							
2	1	172469-45100-1	LEVER, TRACK	1							
3	2	172141-41370	BUSH	2							
5	1	172469-45140-1	LEVER, TRACK	1							
6	2	172141-41370	BUSH	2							
8	1	172187-45870	GRIP, DRIVE	1							
9	1	172187-45880	GRIP, DRIVE	1							
10	1	22117-040000	WASHER, 4	2							
11	1	26116-100404	BOLT, M10X 40 PLATED	2							
12	1	26116-100604	BOLT, M10X 60 PLATED	2							
13	1	26587-040122	SCREW, M4X12	2							
14	1	26716-100002	NUT, M10	4							
15	1	172472-45661-1	BRACKET ASSY, TRACK	1							
16	1	172124-46200	O-RING	3							
17	1	24761-020000	NIPPLE, GREASE PT1/8	1							
18	1	24761-050000	NIPPLE, GREASE C	1							
19	1	26013-100252	BOLT, M10X 25	2							
20	1	172458-45250	ROD ASSY	2							
21	1	172122-46590	ELBOW	2							
22	1	22117-080000	WASHER, 8	2							
23	1	22417-160160	PIN, COTTER 1.6X16	2							
24	1	26051-080002	NUT, M8	4							
25	1	933110-54100	PIN	2							

(A)=VIO20-3B P(KR)
(B)=
(C)=

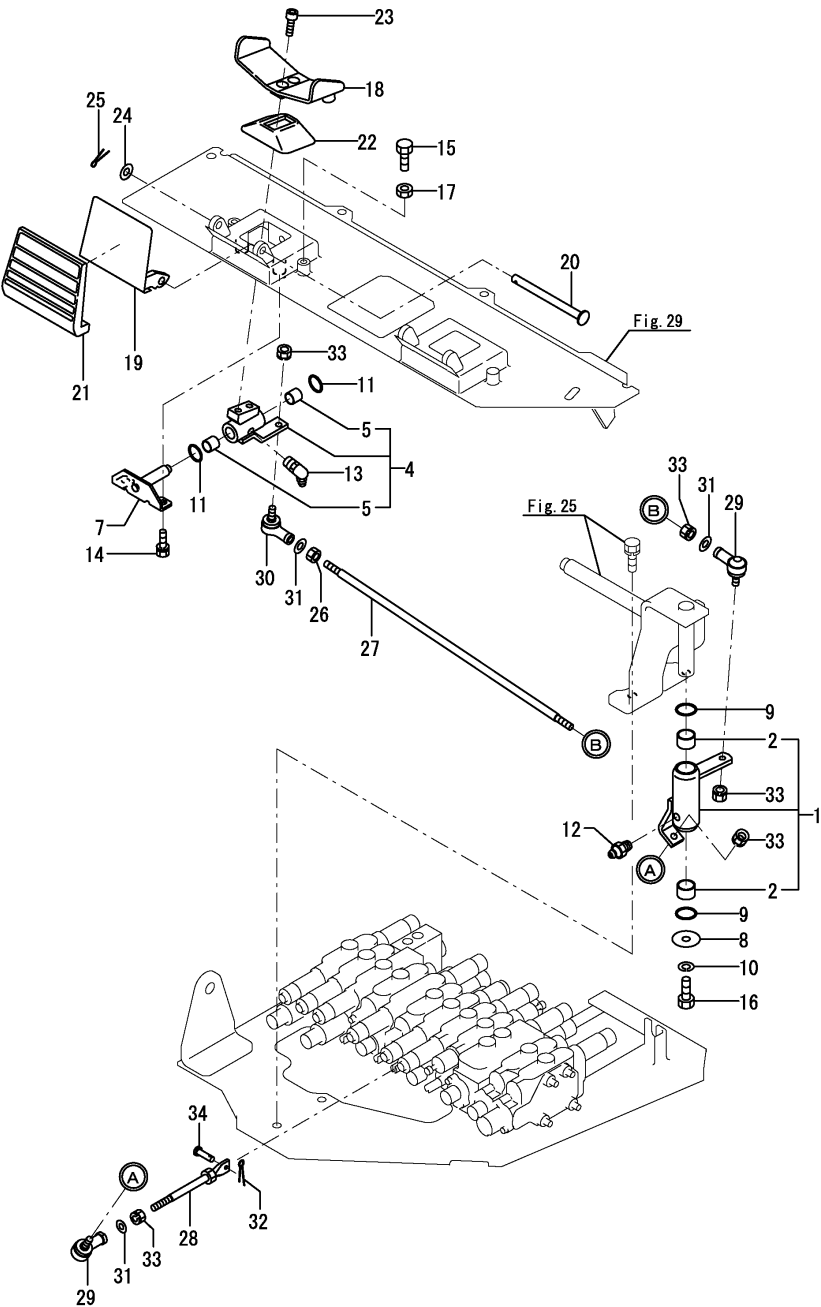
(D)=
(E)=
(F)=



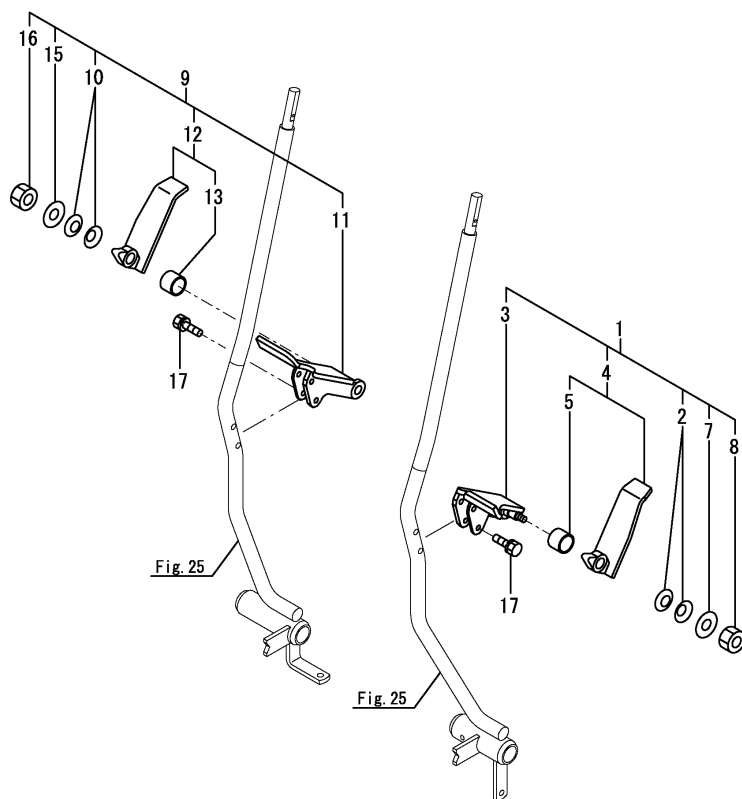
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172472-45700-1	LEVER, BLADE (GRAY:49)	1							
2	1	172458-45720	SHAFT ASSY	1							
3	1	172164-45970	GRIP, BLADE	1							
4	1	22351-030032	PIN, SPRING 3.0X32	1							
5	1	22351-050032	PIN, SPRING 5.0X32	1							
6	1	24311-000210	O-RING, 1AP21.0	2							
7	1	26116-080254	BOLT, M8X 25 PLATED	2							
8	1	26716-080002	NUT, M8	2							
9	1	172458-45800	CABLE, BLADE	1							
10	2	172458-45810	JOINT, BALL	1							
11	2	26757-050002	NUT, LOCK M5	1							
12	1	22417-160160	PIN, COTTER 1.6X16	1							
13	1	26051-080002	NUT, M8	1							
14	1	933110-54100	PIN	1							
15	1	933168-55770	BAND	1							

(A)=VIO20-3B P(KR)
(B)=
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172458-45180-1	LINK, SWING	1							
2	2	172141-41370	BUSH	2							
4	1	172458-45200-1	LINK, PEDAL	1							
5	2	172141-41360	BUSH	2							
7	1	172458-45230	SHAFT, PEDAL	1							
8	1	1A1040-45890	WASHER, 10X36X4.5	1							
9	1	172124-46200	O-RING	2							
10	1	22217-100000	WASHER, SPRING 10	1							
11	1	24311-000210	O-RING, 1AP21.0	2							
12	1	24761-020000	NIPPLE, GREASE PT1/8	1							
13	1	24761-040000	NIPPLE, GREASE B	1							
14	1	26013-080162	BOLT, M8X 16	2							
15	1	26116-080254	BOLT, M8X 25 PLATED	2							
16	1	26116-100202	BOLT, M10X 20 PLATED	1							
17	1	26716-080002	NUT, M8	2							
18	1	172458-45521-1	PEDAL, SWING	1							
19	1	172458-45540-1	COVER, PEDAL	1							
20	1	172187-45651	SHAFT	1							
21	1	172187-45760	PAD	1							
22	1	172157-45990	BOOT, PEDAL	1							
23	1	172165-46340	BOLT	2							
24	1	22137-100000	WASHER, 10	1							
25	1	22417-250200	PIN, COTTER 2.5X20	1							
26	1	194200-37780	NUT, M8	1							
27	1	172456-45160	LOD, SWING	1							
28	1	172823-45940	ROD ASSY	1							
29	1	172122-46590	ELBOW	2							
30	1	1E6740-64200	BALL, LINK	1							
31	1	22117-080000	WASHER, 8	3							
32	1	22417-160160	PIN, COTTER 1.6X16	1							
33	1	26051-080002	NUT, M8	5							
34	1	933110-54100	PIN	1							

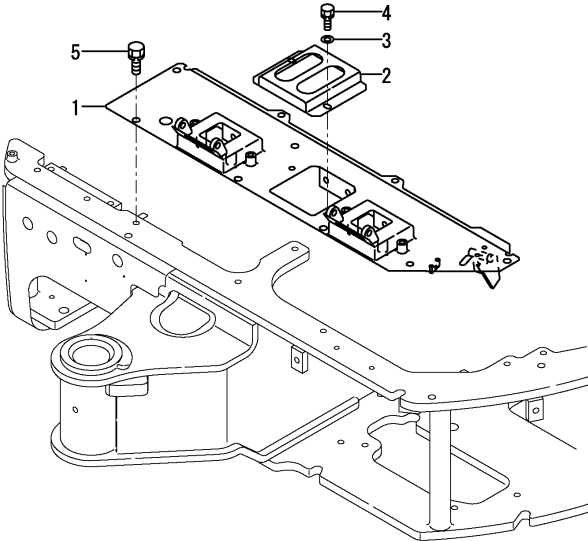


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172472-45601-1	PEDAL, TRACK	1							
2	2	172068-28490	SPRING	2							
3	2	172472-45720-1	PEDAL FL, TRACK (49)	1							
4	2	172472-45810-1	PEDAL ASSY, TRUCK	1							
5	3	172110-45050	BUSH	1							
7	2	22137-080000	WASHER, 8	1							
8	2	26347-080002	NUT, M8	1							
9	1	172472-45621-1	PEDAL, TRACK	1							
10	2	172068-28490	SPRING	2							
11	2	172472-45730-1	PEDAL FR, TRACK (49)	1							
12	2	172472-45850-1	PEDAL ASSY, TRUCK	1							
13	3	172110-45050	BUSH	1							
15	2	22137-080000	WASHER, 8	1							
16	2	26347-080002	NUT, M8	1							
17	1	26013-060302	BOLT, M6X 30	4							

Fig.29. LINK STAND

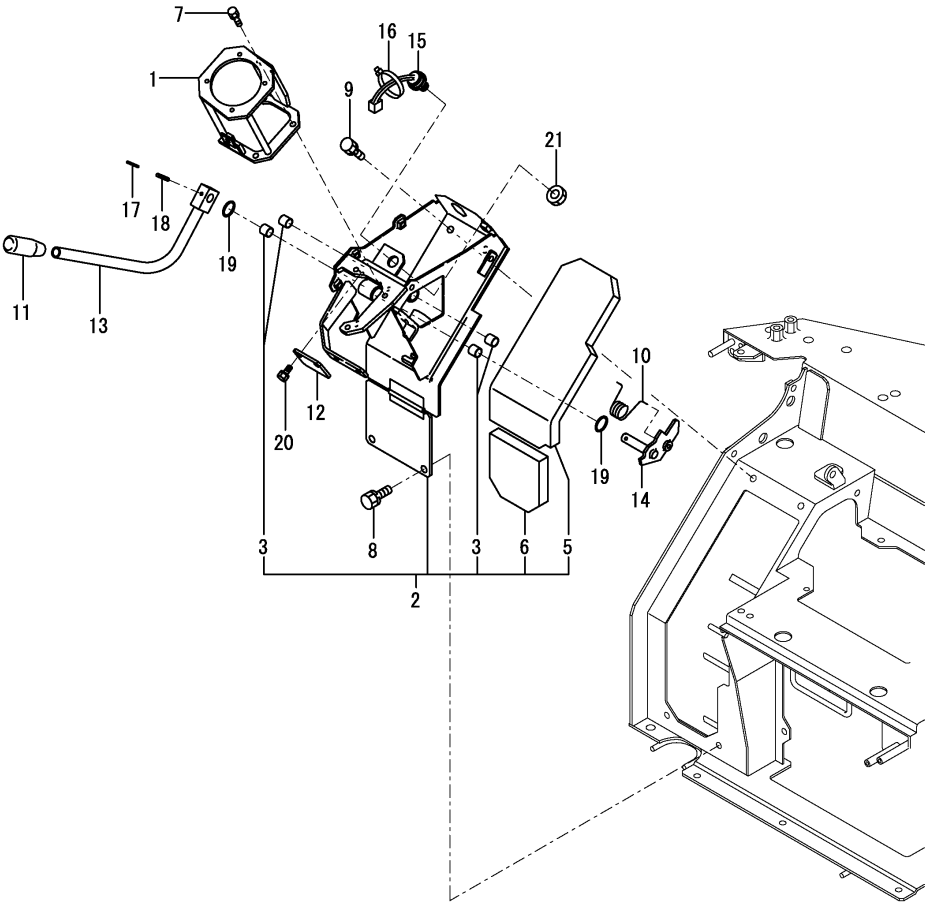
(A)=VIO20-3B P(KR)
(B)=
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172472-45401-1	STAND ASSY, LINK	1							
2	1	172458-45510-1	BRACKET, BOOT	1							
3	1	22137-080000	WASHER, 8	2							
4	1	26013-080162	BOLT, M8X 16	2							
5	1	26013-100202	BOLT, M10X 20	6							

OCK50-M00470 CONTROL EQUIPMENT
Fig.30. LOCK LEVER & STAND(RIGHT)

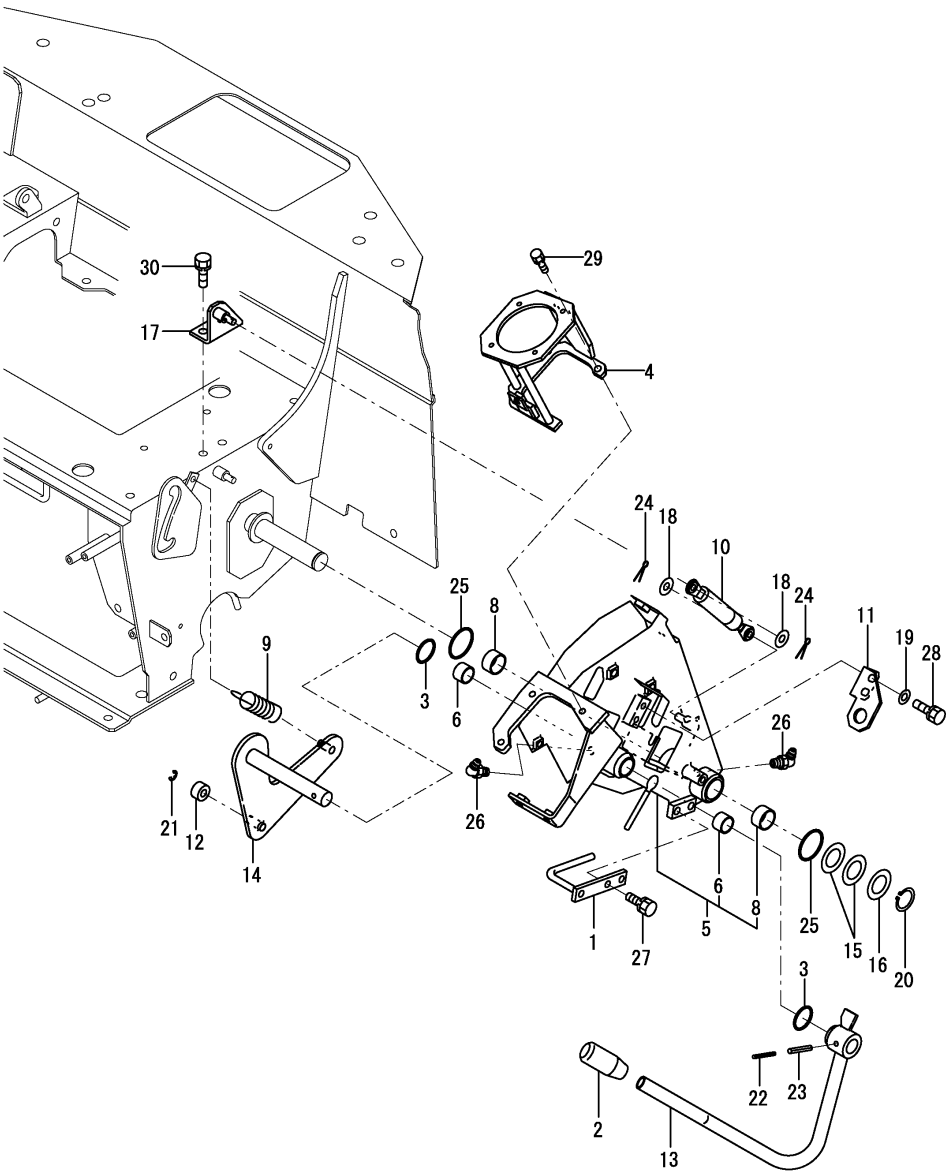


(A)=VIO20-3B P(KR)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172472-46210	BRACKET ASSY	1							
2	1	172A36-46802	STAND ASSY, LEVER	1							
3	2	172141-41360	BUSH	4							
5	2	172A23-46840	SPONGE	1							
6	2	172A23-46850	SPONGE	1							
7	1	26013-080202	BOLT, M8X 20	3							
8	1	26013-100202	BOLT, M10X 20	2							
9	1	26013-100202	BOLT, M10X 20	3							
10	1	172165-45970	SPRING	1							
11	1	172A77-46050	GRIP	1							
12	1	172458-46950	PLATE	1							
13	1	172458-47681	LOCK LEVER R(GRAY:72	1							
14	1	172458-47710	SHAFT ASSY	1							
15	1	194464-52190	SWITCH, SAFETY START	1							
16	1	194202-56460	BAND, 200	1							
17	1	22351-030032	PIN, SPRING 3.0X32	1							
18	1	22351-050032	PIN, SPRING 5.0X32	1							
19	1	24311-000210	O-RING, 1AP21.0	2							
20	1	26013-080162	BOLT, M8X 16	2							
21	1	26776-180002	NUT, LOCK M18	1							

0CK50-M00470 CONTROL EQUIPMENT
Fig.31. LOCK LEVER & STAND(LEFT)

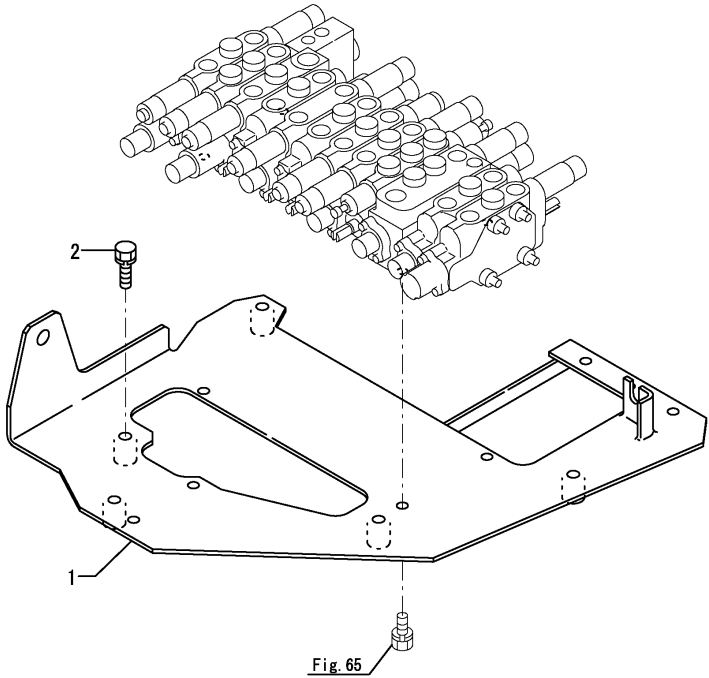


							0CK50-M00470 Fig.31					
							(A)=VIO20-3B P(KR)		(D)=			
							(B)=		(E)=			
							(C)=		(F)=			
No.	Lev.	Parts No.	Description	Q'ty						I	R	
				(A)	(B)	(C)	(D)	(E)	(F)			
1	1	172458-45850	GUIDE, HOSE	1								
2	1	172A77-46050	GRIP	1								
3	1	172124-46200	O-RING	2								
4	1	172472-46220	BRACKET ASSY	1								
5	1	172472-46600	STAND, LEVER	1								
6	2	172141-41370	BUSH	2								
8	2	24550-025150	BUSH, 25X15	2								
9	1	172162-46690	SPRING	1								
10	1	172455-46890	SPRING, GAS	1								
11	1	172455-46950	BRACKET, SWITCH	1								
12	1	172165-47550	BUSH	1								
13	1	172472-47621	LOCK LEVER ASSY,L-US	1								
14	1	172458-47640	ROD ASSY, SPRING	1								
15	1	172165-47980	SHIM	2								
16	1	172165-47990	WASHER	1								
17	1	172472-64600	BRACKET, DAMPER	1								
18	1	22137-080000	WASHER, 8	2								
19	1	22137-080000	WASHER, 8	2								
20	1	22242-000250	RING, 25	1								
21	1	22272-000070	RING, E- 7	1								
22	1	22351-035040	PIN, SPRING 3.5X40	1								
23	1	22351-060040	PIN, SPRING 6.0X40	1								
24	1	22417-200200	PIN, COTTER 2.0X20	2								
25	1	24311-000340	O-RING, 1AP34.0	2								
26	1	24761-050000	NIPPLE, GREASE C	2								
27	1	26013-080162	BOLT, M8X 16	2								
28	1	26013-080202	BOLT, M8X 20	2								
29	1	26013-080202	BOLT, M8X 20	3								
30	1	26013-100202	BOLT, M10X 20	2								

(A)=VIO20-3B P(KR)
(B)=
(C)=

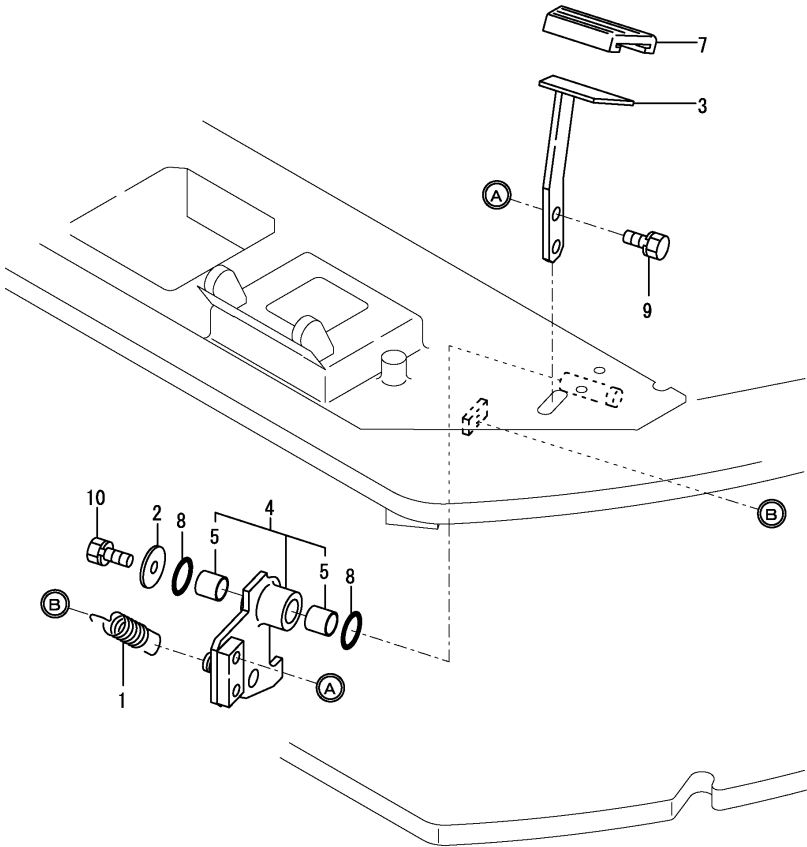
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172487-45600-1	PLATE, VALVE	1							
2	1	26013-100402	BOLT, M10X 40	5							



(A)=VIO20-3B P(KR)
(B)=
(C)=

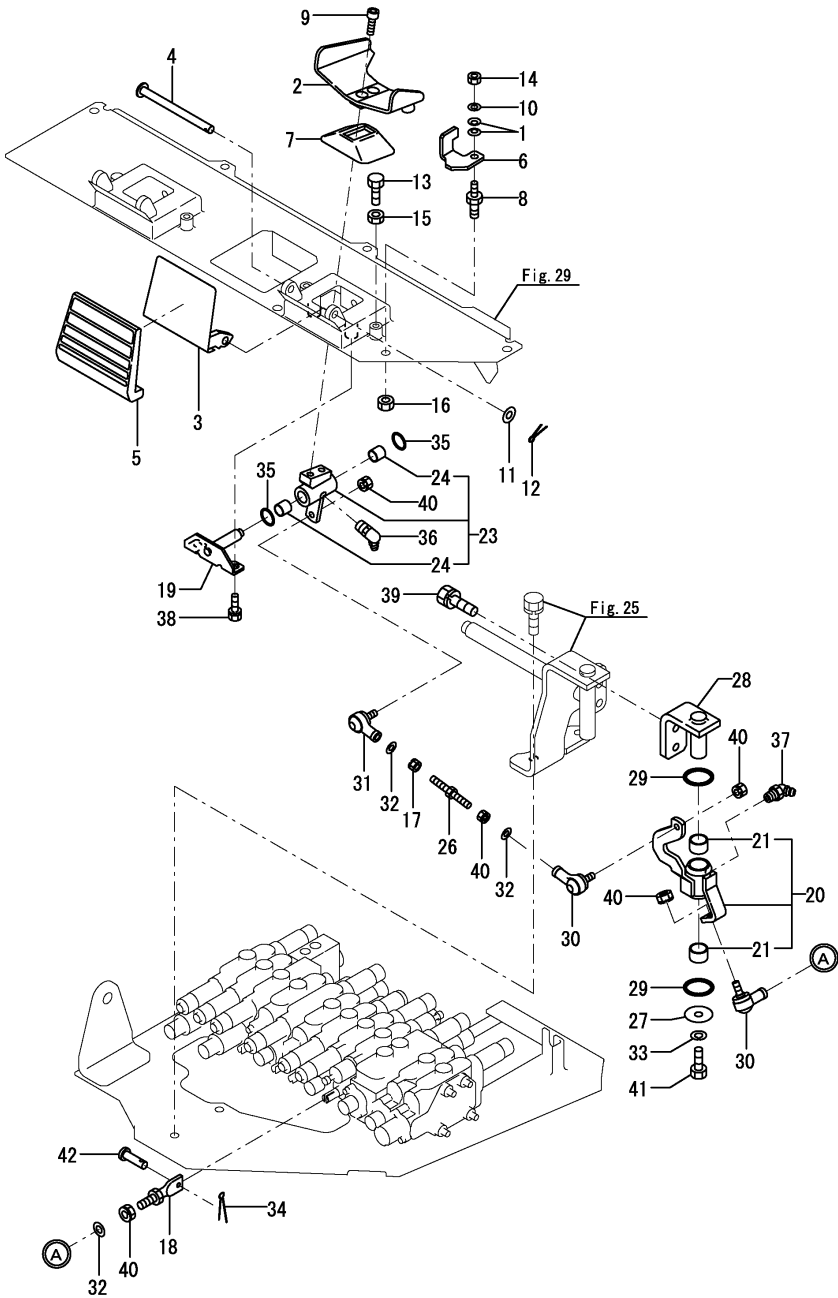
(D)=
(E)=
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172162-12480	SPRING, RETURN	1							
2	1	1A1040-43900	WASHER, SPRING	1							
3	1	172487-45900-1	PEDAL, LO-HIGH	1							
4	1	172458-45920-1	BRACKET, PEDAL	1							
5	2	172141-41360	BUSH	2							
7	1	172458-45950	PAD, PEDAL	1							
8	1	24311-000210	O-RING, 1AP21.0	2							
9	1	26013-080162	BOLT, M8X 16	2							
10	1	26013-080202	BOLT, M8X 20	1							

(A)=VIO20-3B P(KR)
(B)=
(C)=

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



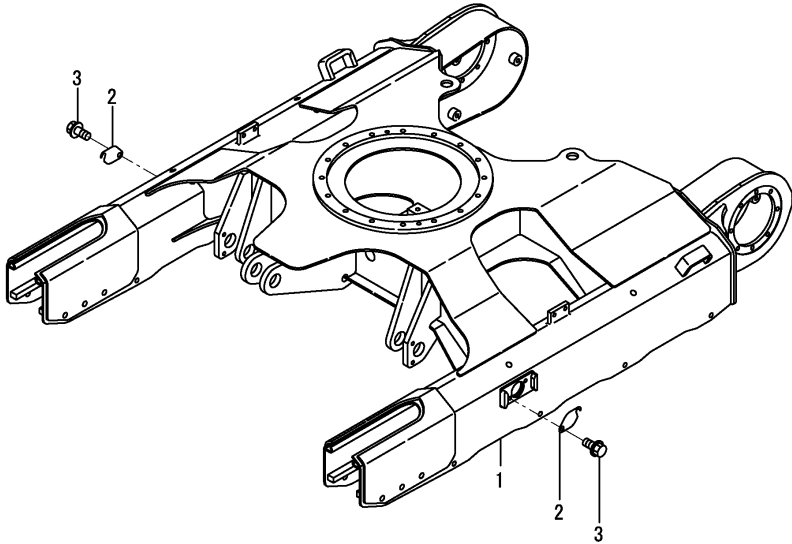
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172068-28490	SPRING, SCREW 8	2							
2	1	172472-45500-1	PEDAL ASSY, PTO	1							
3	1	172458-45540-1	COVER ASSY, PEDAL	1							
4	1	172187-45651	SHAFT, PEDAL COVER	1							
5	1	172187-45760	PAD	1							
6	1	172448-45800-3	PLATE, PTO LOCK	1							
7	1	172157-45990	BOOT, PEDAL	1							
8	1	172462-46230	BOLT, 8X10	1							
9	1	172165-46340	BOLT, HEX SOCKET M8	2							
10	1	22137-080000	WASHER, 8	1							
11	1	22137-100000	WASHER, 10	1							
12	1	22417-250200	PIN, COTTER 2.5X20	1							
13	1	26116-080254	BOLT, M8X 25 PLATED	2							
14	1	26347-080002	NUT, M8	1							
15	1	26716-080002	NUT, M8	2							
16	1	26757-100002	NUT, LOCK M10	1							
17	1	194200-37780	NUT, M8	1							
18	1	172823-45000	ROD, SPOOL 54	1							
19	1	172458-45230-1	SHAFT ASSY, PEDAL	1							
20	1	172472-45300-1	LINK ASSY, PTO A	1							
21	2	172141-41370	BUSH, 20 15	2							
23	1	172472-45330	LINK ASSY, PTO B	1							
24	2	172141-41360	BUSH	2							
26	1	172469-45360	ROD, 77	1							
27	1	1A1040-45890	WASHER, 10X36X4.5	1							
28	1	172458-46150-1	BRACKET, PTO	1							
29	1	172124-46200	O-RING, 27.6X5.7	2							
30	1	172122-46590	ELBOW, 8	2							
31	1	1E6740-64200	BALL, LINK BL8DL	1							
32	1	22117-080000	WASHER, 8	3							
33	1	22217-100000	WASHER, SPRING 10	1							
34	1	22417-160160	PIN, COTTER 1.6X16	1							
35	1	24311-000210	O-RING, 1AP21.0	2							
36	1	24761-040000	NIPPLE, GREASE B	1							
37	1	24761-050000	NIPPLE, GREASE C	1							
38	1	26013-080162	BOLT, M8X 16	2							
39	1	26013-100202	BOLT, M10X 20	2							
40	1	26051-080002	NUT, M8	5							
41	1	26116-100202	BOLT, M10X 20 PLATED	1							
42	1	933110-54100	PIN, 4.75X14	1							

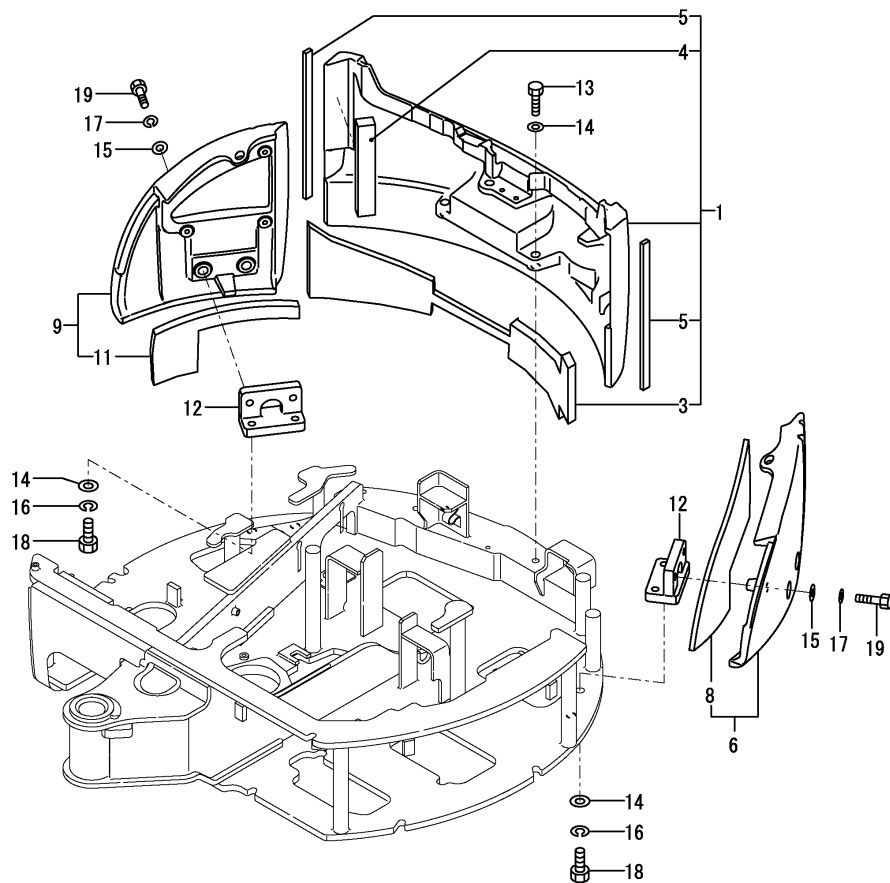
Fig.35. TRAVEL FRAME

(A)=VIO20-3B P(KR)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-50105	FRAME ASSY,LOWER	1							
2	1	172458-50480-2	COVER, FRAME	2							
3	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	172487-53300-2	WEIGHT, COUNTER	1							
3	2	172487-53320	SEAL A	1							
4	2	172487-53330	SEAL	1							
5	2	172458-53370	SEAL, COUNTER	2							
6	1	172487-53350-2	WEIGHT	1							
8	2	172487-53370	SEAL C	1							
9	1	172487-53400-2	WEIGHT ASSY	1							
11	2	172487-53420	SEAL D	1							
12	1	172458-53330	BRACKET ASSY	2							
13	1	172165-53480	BOLT	2							
14	1	172165-53500	WASHER	6							
15	1	172165-53500	WASHER	4							
16	1	22217-160000	WASHER, SPRING 16	4							
17	1	22217-160000	WASHER, SPRING 16	4							
18	1	26116-160452	BOLT, M16X 45 PLATED	4							
19	1	26116-160652	BOLT, M16X 65 PLATED	4							

Fig.37. TURNING FRAME

(A)=VIO20-3B P(KR)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A23-54103	FRAME ASSY,TURNING	1							
3	2	172448-54120	SEAL, DUST	2							
4	2	172171-54750	BUSH 50X65	2							
5	1	24761-040000	NIPPLE, GREASE B	1							

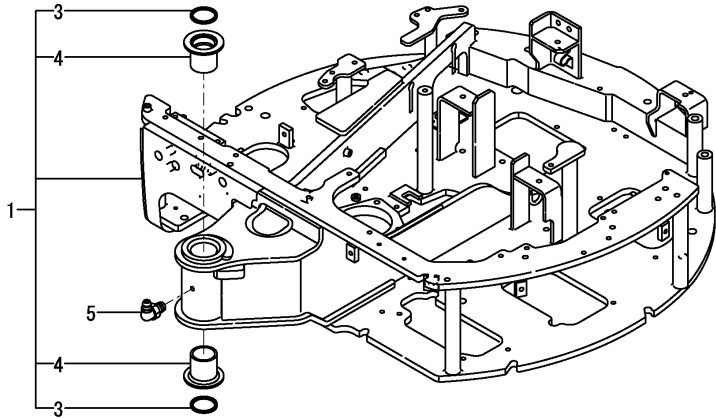
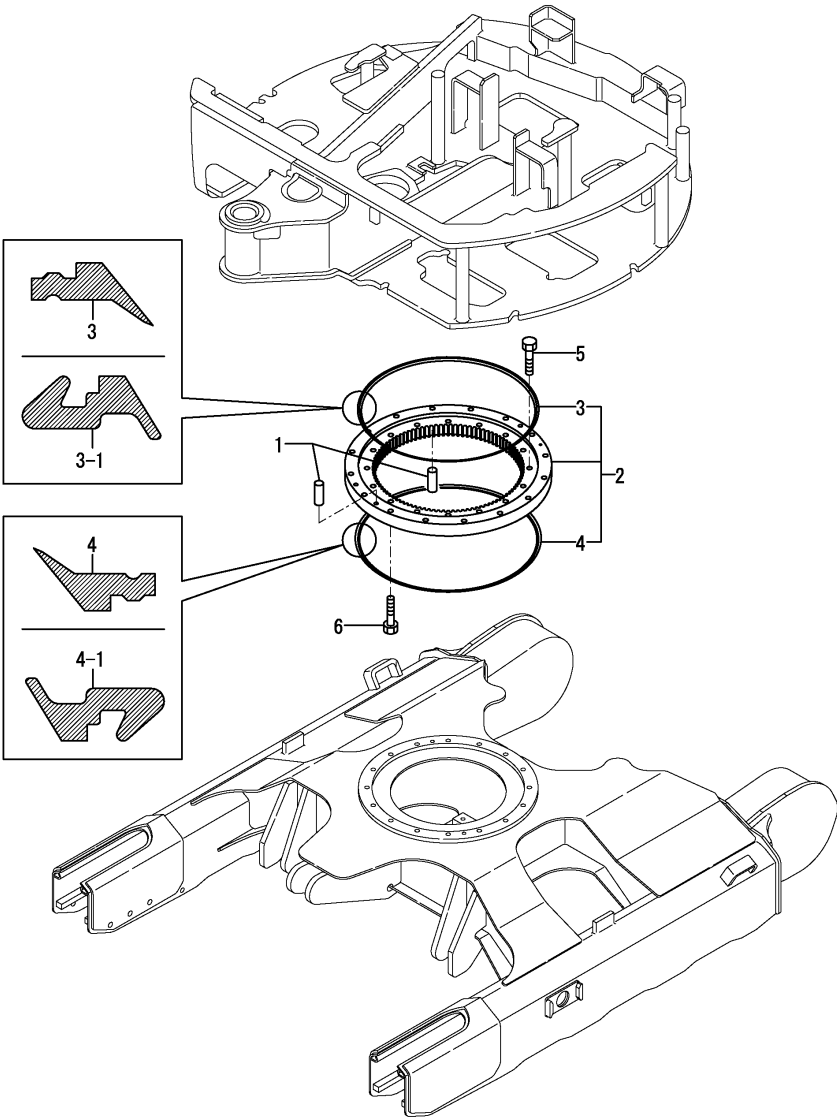


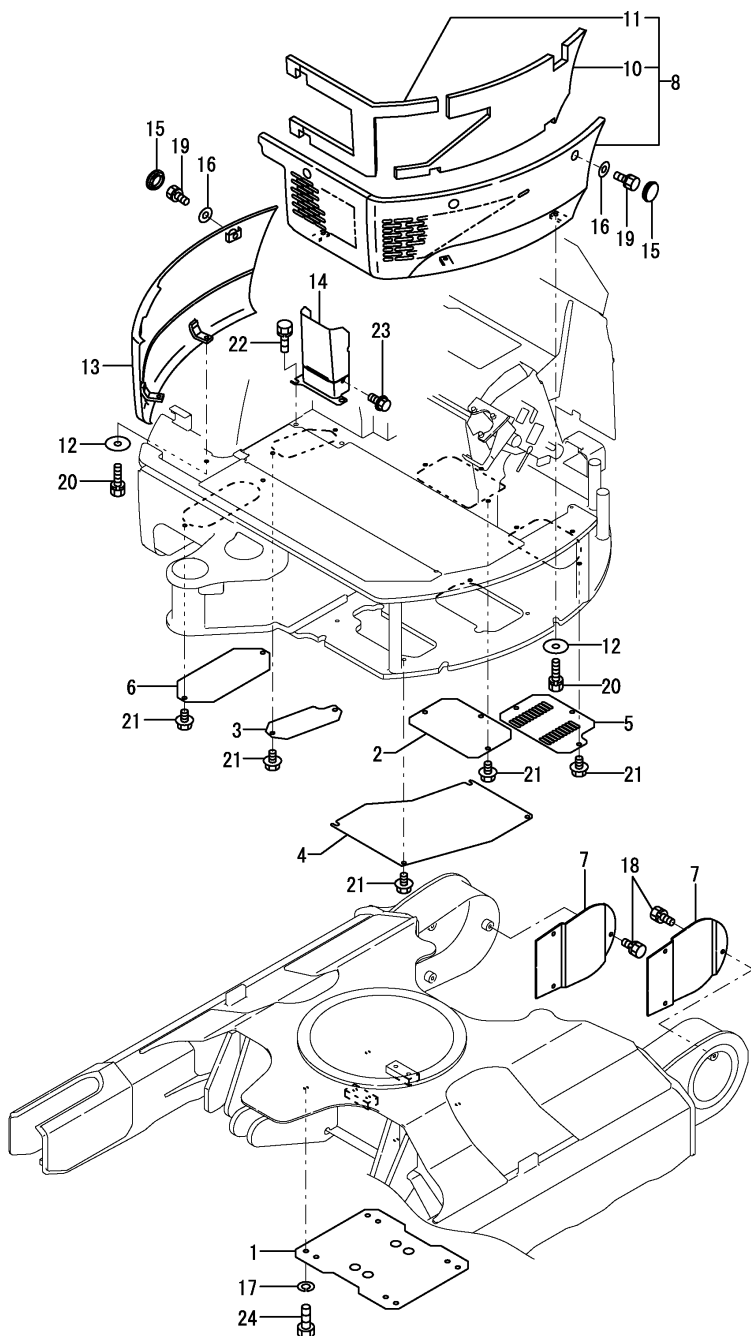
Fig.38. TURNING BEARING

(A)=VIO20-3B P(KR)
(B)=
(C)=

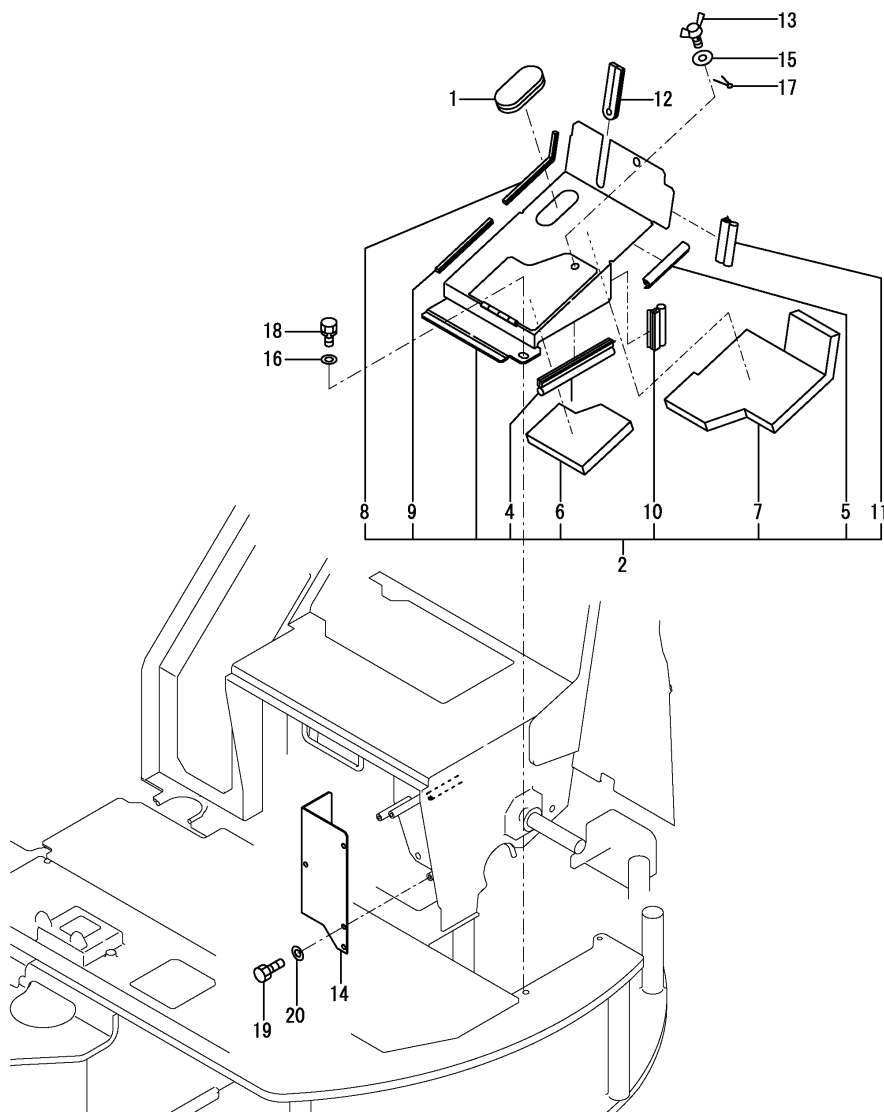
(D)=
(E)=
(F)=

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	172456-57600	BEARING,TURNING	1							
2-1	1	172456-57601	BEARING,SWING	1						N	
(A=MBF295)											
3	2	172183-57620	SEAL, TURNING	1							
3-1	2	172B57-57620	SEAL, A	1						S	
(A=MBF295)											
4	2	172183-57630	SEAL, TURNING	1							
4-1	2	172B57-57630	SEAL, B	1						S	
(A=MBF295)											
5	1	172141-57650	BOLT M12X 55 PLATED	16							
6	1	172A23-57650	BOLT 10.9 12X55	16							



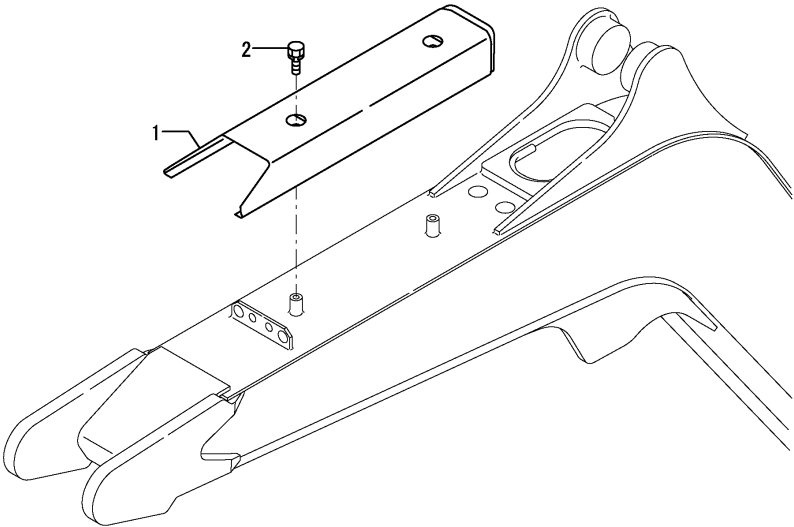


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172141-50763-1	COVER	1							
2	1	172456-61100-2	COVER	1							
3	1	172456-61110-2	COVER	1							
4	1	172458-61110-2	COVER, VALVE	1							
5	1	172456-61130-2	PLATE, PUMP	1							
6	1	172458-61150-3	COVER, FUEL	1							
7	1	172173-61191-1	COVER, TRAVEL	2							
8	1	172A23-61200-2	COVER, FRAME	1							
10	2	172487-61240	SEAL, COVER	1							
11	2	172456-61310	SPONGE	1							
12	1	172458-61261	WASHER	5							
13	1	172456-61270-2	COVER, FRAME	1							
14	1	172A36-61410	PLATE ASSY	1							
15	1	172A21-61600	PLUG	5							
16	1	22137-100000	WASHER, 10	5							
17	1	22217-120000	WASHER, SPRING 12	4							
18	1	26013-100202	BOLT, M10X 20	6							
19	1	26013-100202	BOLT, M10X 20	5							
20	1	26013-100352	BOLT, M10X 35	5							
21	1	26106-100162	BOLT, M10X 16 PLATED	14							
22	1	26106-100162	BOLT, M10X 16 PLATED	2							
23	1	26106-100162	BOLT, M10X 16 PLATED	1							
24	1	26116-120252	BOLT, M12X 25 PLATED	4							



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172146-41320	GROMMET	1							
2	1	172456-61153-1	COVER ASSY, MULTI	1							
4	2	172164-61250	RUBBER, SEAL	1							
5	2	172456-61340	RUBBER, SEAL 105	1							
6	2	172456-61350	SPONGE	1							
7	2	172456-61360	SPONGE	1							
8	2	172146-61370	RUBBER, SEAL	1							
9	2	172458-61540	SEAL, MULTI COVER	1							
10	2	172171-65850	RUBBER, SEAL	1							
11	2	172164-66800	RUBBER, SEAL 60	1							
12	1	172458-61300	GROMMET	1							
13	1	172142-62301	BOLT, WING	1							
14	1	172456-64640	COVER, ELECTRIC	1							
15	1	22133-100000	WASHER, 10	1							
16	1	22137-100000	WASHER, 10	2							
17	1	22417-320200	PIN, COTTER 3.2X20	1							
18	1	26013-100202	BOLT, SPRING M10X 20	2							
19	1	26116-060122	BOLT, M6X 12 PLATED	3							
20	1	22217-060000	WASHER, SPRING 6	3							

Fig.41. COVER(BOOM)

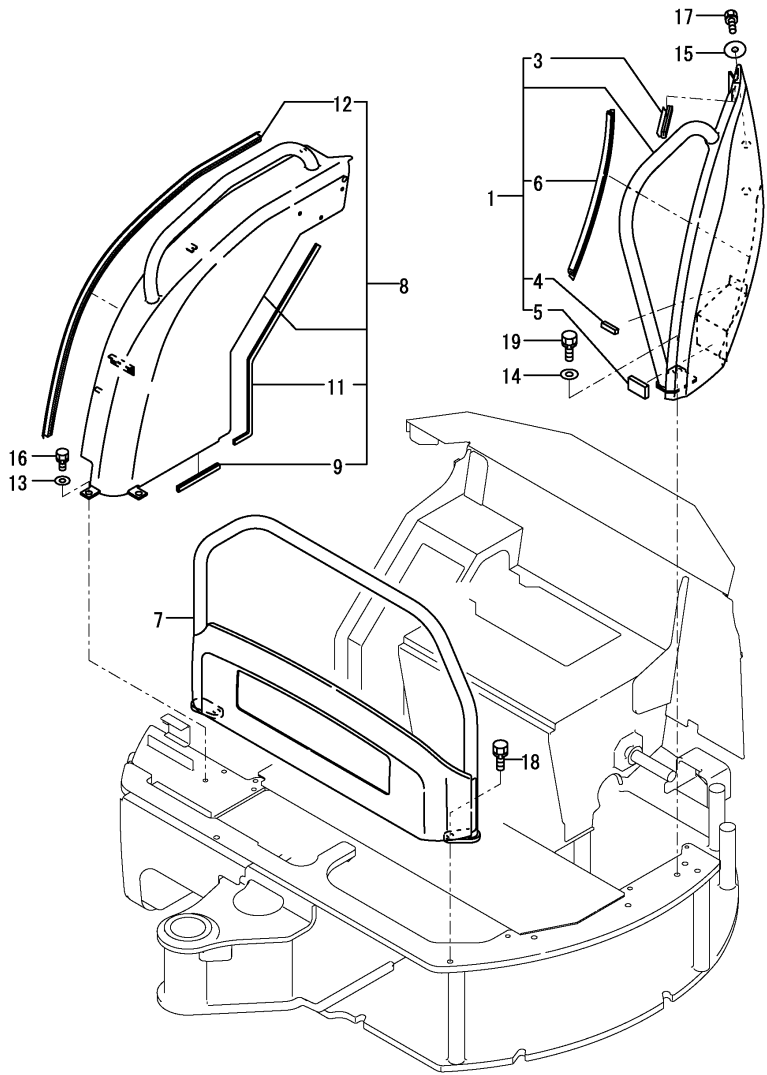


0CK50-M00470 Fig.41											
				(A)=VIO20-3B P(KR)				(D)=			
				(B)=				(E)=			
				(C)=				(F)=			
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-61964-Y	COVER, BOOM	1							
2	1	26013-080162	BOLT, M8X 16	2							

Fig.42. COVER(AROUND THE SEAT)

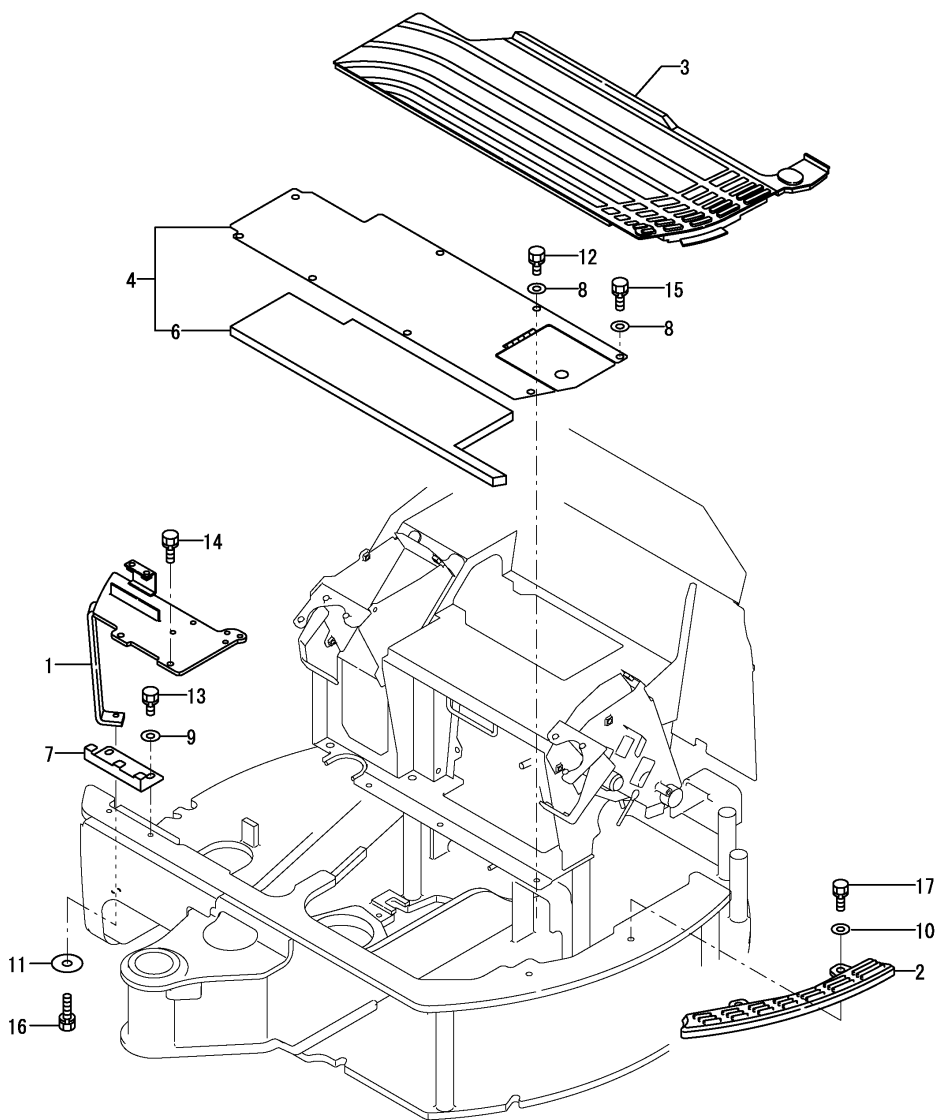
(A)=VIO20-3B P(KR)
(B)=
(C)=

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



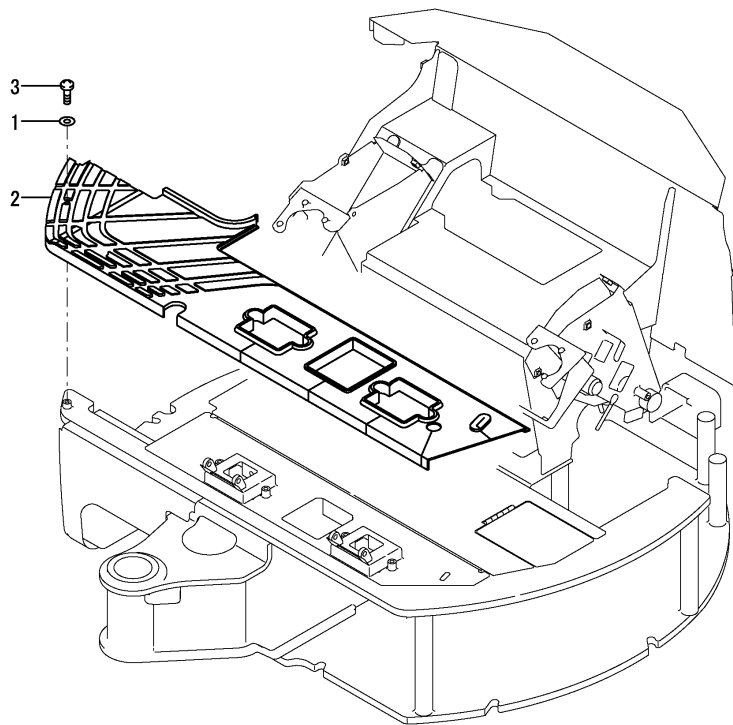
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-61400-Y	BONNET L	1							
3	2	172456-61480	RUBBER, SEAL 95	1							
4	2	172456-61490	SEAL	1							
5	2	172456-61500	SEAL	1							
6	2	172487-64780	RUBBER, SEAL 365	1							
7	1	172458-61600-Y	COVER ASSY	1							
8	1	172456-61691	COVER ASSY	1							
8-1	1	172456-61691-N	COVER ASSY	1							S
(A=MBF001)											
9	2	172156-11150	SEAL, ENGINE	1							
11	2	172458-64140	SEAL	1							
12	2	172165-65460	RUBBER, SEAL	1							
13	1	22137-100000	WASHER, 10	4							
14	1	172730-05250	WASHER	1							
15	1	22157-100000	WASHER, 10	2							
16	1	26013-100202	BOLT, SPRING M10X 20	4							
17	1	26013-100252	BOLT, SPRING M10X 25	2							
18	1	26013-120302	BOLT, SPRING M12X 30	2							
19	1	26013-120352	BOLT, M12X 35	1							

Fig.43. STEP

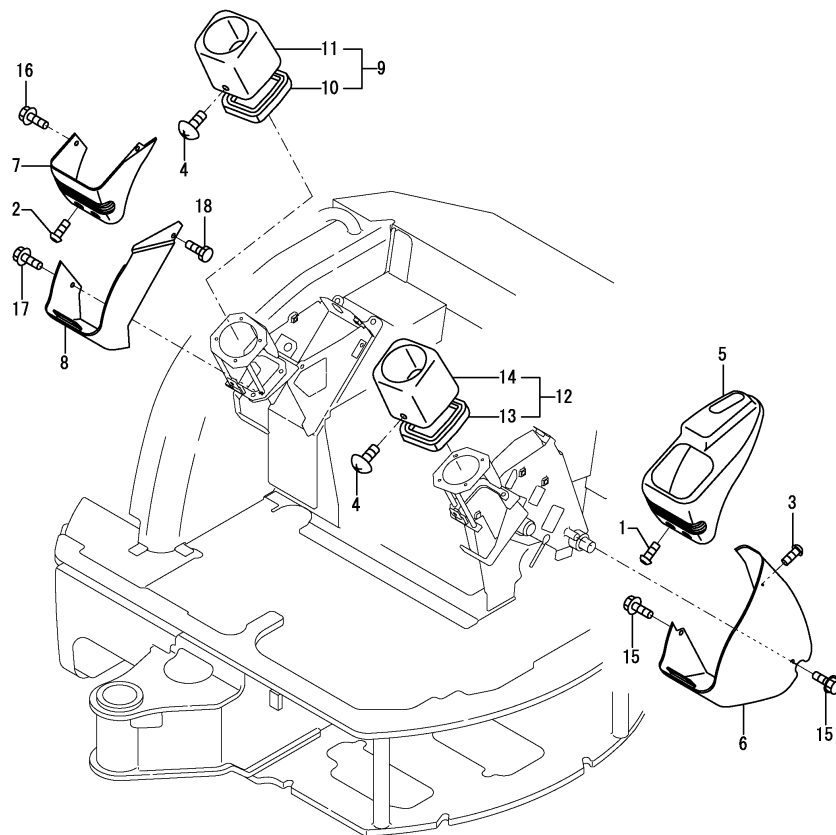


No.	Lev.	Parts No.	Description	Q'ty						I R
				(A)	(B)	(C)	(D)	(E)	(F)	
1	1	172456-62100-2	STEP	1						
2	1	172458-62110-1	STEP	1						
3	1	172456-62200	MAT A	1						
4	1	172469-62210-2	STEP ASSY	1						
6	2	172469-62310	SPONGE	1						
7	1	172456-62500-1	HOOK, FLOOR MAT	1						
8	1	22137-100000	WASHER, 10	8						
9	1	22137-100000	WASHER, 10	2						
10	1	22137-120000	WASHER, 12	2						
11	1	22157-100000	WASHER, 10	1						
12	1	26013-100202	BOLT, M10X 20	6						
13	1	26013-100202	BOLT, M10X 20	2						
14	1	26013-100252	BOLT, M10X 25	2						
15	1	26013-100252	BOLT, M10X 25	2						
16	1	26013-100352	BOLT, M10X 35	1						
17	1	26013-120302	BOLT, M12X 30	2						

Fig.44. FLOOR MAT



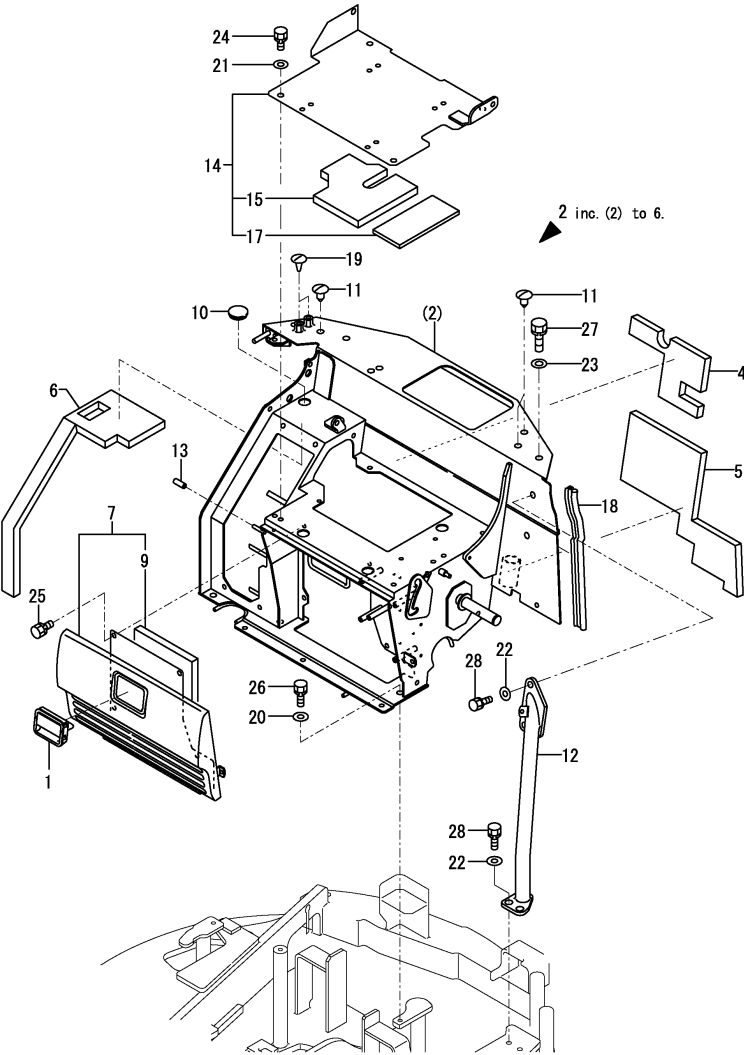
No.	Lev.	Parts No.	Description	(A)=VIO20-3B P(KR)	(D)=	I	R
				(B)=	(E)=		
				(C)=	(F)=		
					Q'ty		
				(A)	(B)	(C)	(D)
					(E)	(F)	
1	1	172458-62430	WASHER	1			
2	1	172A36-62500	MAT, FLOOR B(CANOPY	1			
3	1	172137-69850	SCREW	1			

[illegible]

Remarks
(1)Color = DARK OLIVE GRAY.
(2)Color = WARM GARY.
(3)Color = PANTONE 425C.

(A)=VIO20-3B P(KR)
(B)=
(C)=

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

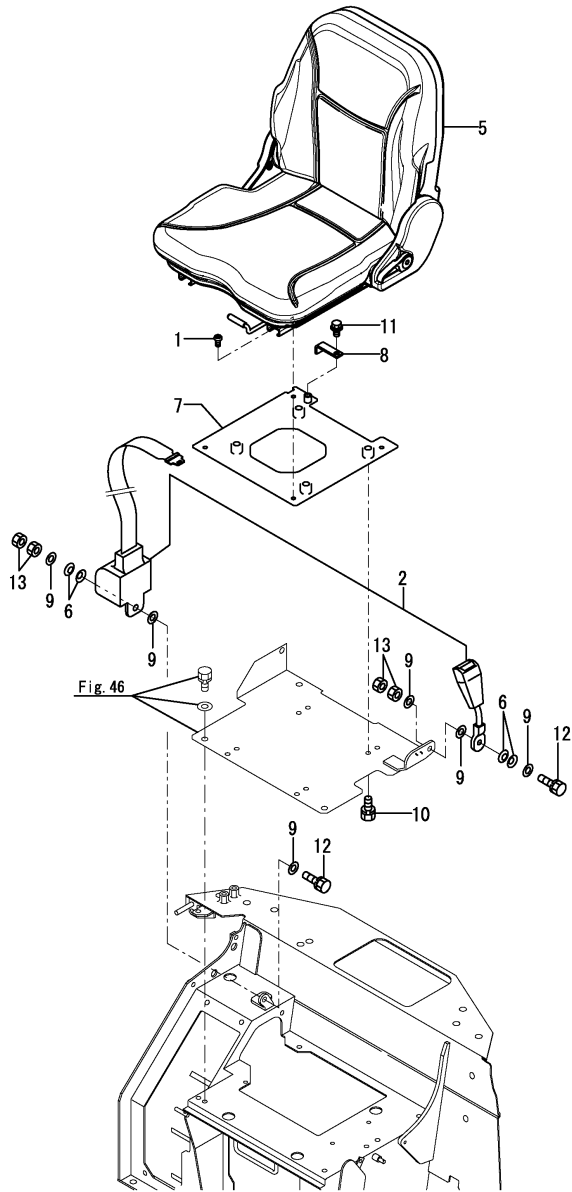


Remarks
(1)Color = DARK OLIVE GRAY.
(2)Color = WARM GARY.
(3)Color = GARY.
(4)Color = BLACK.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172187-61421	HANDLE, LOCK	1							1
1-1	1	172B02-69040	HANDLE, LOCK BLACK	1						S	4
(A=MBF001)											
2	1	172A36-64201	MOUNT ASSY, SEAT	1							
2-1	1	172A36-64201-N	MOUNT ASSY, SEAT	1						S	
(A=MBF001)											
2-2	1	172A36-64202	MOUNT ASSY, SEAT	1							N
(A=MBF163)											
4	2	172A23-64700	SPONGE	1							
5	2	172456-64710	SPONGE	1							
6	2	172A23-64720	SPONGE	1							
7	1	172A23-64461	GRILLE ASSY	1							
7-1	1	172A23-64461-N	GRILLE ASSY	1						S	
(A=MBF001)											
9	2	172A23-64501	SPONGE	1							
10	1	172458-64590	PLUG	1							2
10-1	1	172A21-61600	PLUG	1						S	4
(A=MBF001)											
11	1	172458-64600	CLIP, TREE	3							2
11-1	1	172176-68210	CLIP, TREE	3						S	4
(A=MBF001)											
12	1	172469-64700	PIPE	1							
12-1	1	172469-64700-N	PIPE	1						S	
(A=MBF001)											
13	1	172187-64800	CAP	1							
14	1	172A36-64902	PLATE ASSY, SEAT	1							
14-1	1	172A36-64902-N	PLATE ASSY, SEAT	1						S	
(A=MBF001)											
14-2	1	172A36-64903	PLATE ASSY, SEAT	1							N
(A=MBF163)											
15	2	172A23-64882	SPONGE	1							
17	2	172A23-64930	INSURATOR, SEAT	1							
18	1	172164-66480	RUBBER 340, SEAL	1							
19	1	172444-68650	CLIP, TREE	4							3
19-1	1	172122-17190	CLIP, TREE	4						S	4
(A=MBF001)											
19-2	1	172183-81160	CLIP, TREE 9.5	4							N
(A=M3G249)											
20	1	22137-100000	WASHER, 10	3							
21	1	22137-100000	WASHER, 10	5						Z	
(A=MBF163)											
22	1	22137-120000	WASHER, 12	4							
23	1	22137-120000	WASHER, 12	2							
24	1	26013-100202	BOLT, SPRING M10X 20	5							
24-1	1	26014-100202	BOLT, M10X 20	5							N
(A=MBF163)											
25	1	26013-100202	BOLT, SPRING M10X 20	4							
26	1	26013-100252	BOLT, SPRING M10X 25	3							
27	1	26013-120252	BOLT, SPRING M12X 25	2							
28	1	26013-120302	BOLT, SPRING M12X 30	4							

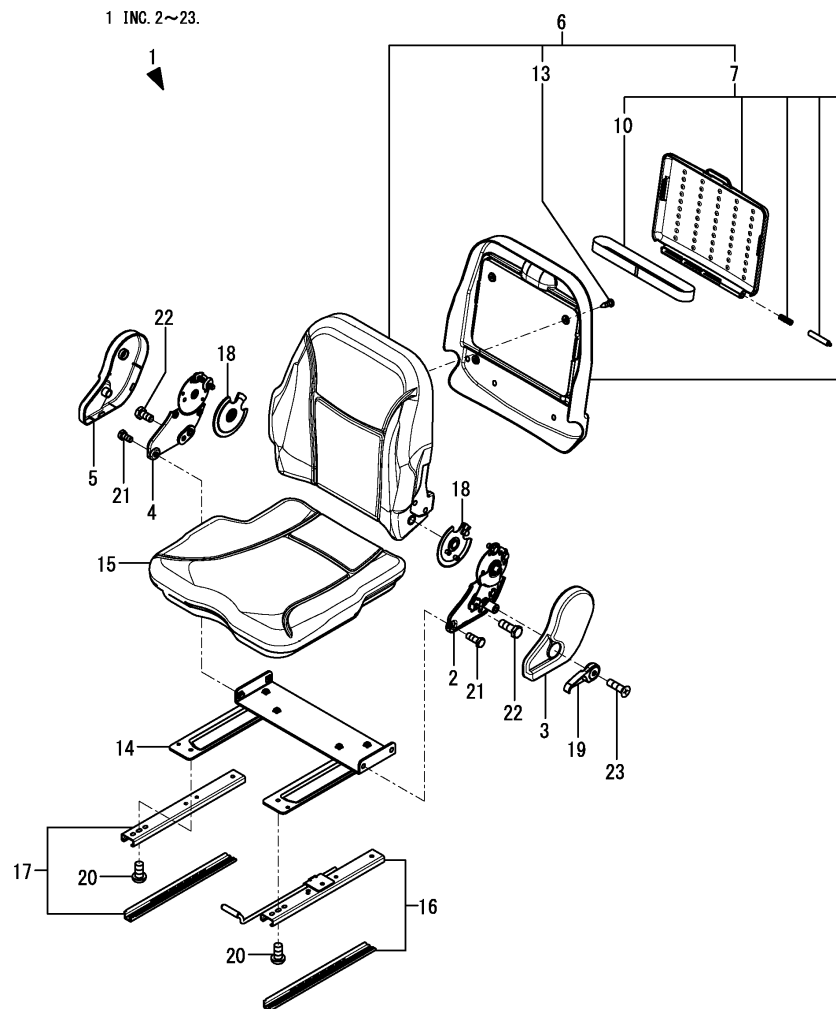
(A)=VIO20-3B P(KR)
(B)=
(C)=

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

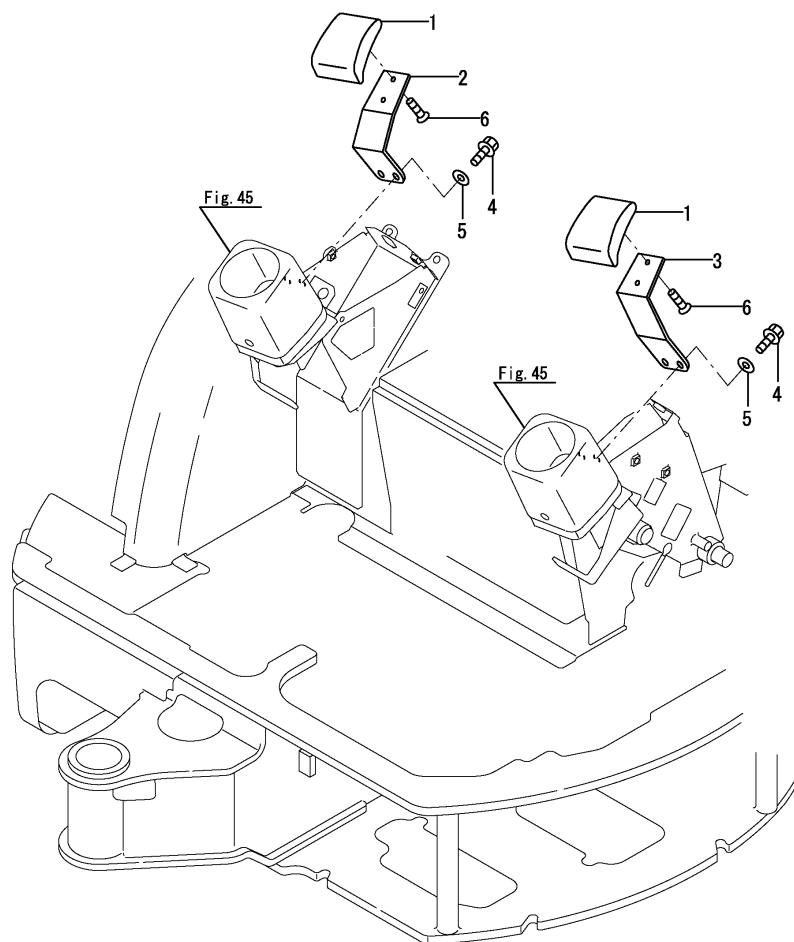


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172455-61710	BOLT M 8X 16	4							
2	1	1A8160-63401	SEATBELT ASSY	1							
5	1	172A64-64070	SEAT ASSY, RECLINING	1							1
6	1	172A77-64270	SPRING	4							
7	1	172A36-64430	PLATE ASSY,MOUNT	1							
7-1	1	172A36-64430-N	PLATE ASSY,MOUNT	1							S
(A=MBF001)											
8	1	172A36-64450	PLATE, LOCK	1							
9	1	22137-100000	WASHER, 10	6							
10	1	26013-100252	BOLT, SPRING M10X 25	4							
11	1	26014-100202	BOLT, M10X 20	1							
12	1	26116-100352	BOLT, M10X 35 PLATED	2							
13	1	26716-100002	NUT, M10	4							

Remarks
(1)Inner parts are shown in Fig.95(47A).

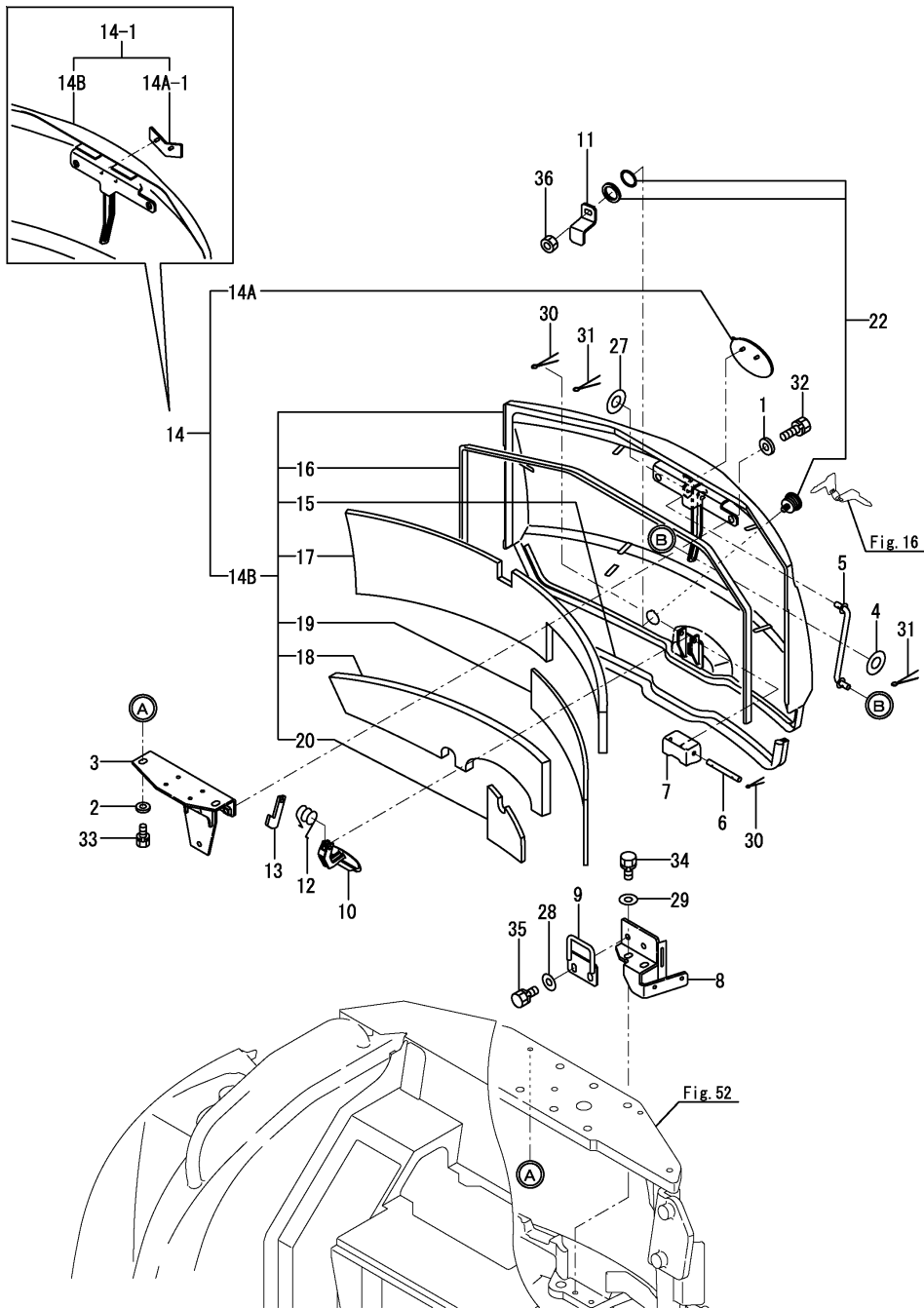


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A64-64070	SEAT ASSY, RECLINING	1							
2	2	172A64-64040	HINGE ASSY	1							
3	2	172A64-64060	COVER	1							
4	2	172A64-64080	HINGE ASSY	1							
5	2	172A64-64090	COVER	1							
6	2	172B02-64210	SEAT ASSY, BACK	1							
7	3	172B02-64270	BOX ASSY,MANUAL	1							
10	4	172A89-64950	BAND	1							
13	3	22859-500200	SCREW, 5.0 X 20	4							
14	2	172B02-64230	BRACKET ASSY, SEAT	1							
15	2	172A89-64780	SEAT, CUSHION	1							
16	2	172A89-64800	RAIL ASSY, TL	1							
17	2	172A89-64810	RAIL ASSY, TR	1							
18	2	172A89-64870	COVER	2							
19	2	172A89-64880	LEVER	1							
20	2	26106-080252	BOLT, M8X 25 PLATED	4							
21	2	26106-100162	BOLT, M10X 16 PLATED	6							
22	2	26106-100252	BOLT, M10X 25 PLATED	2							
23	2	26559-050202	SCREW, M5X20	1							

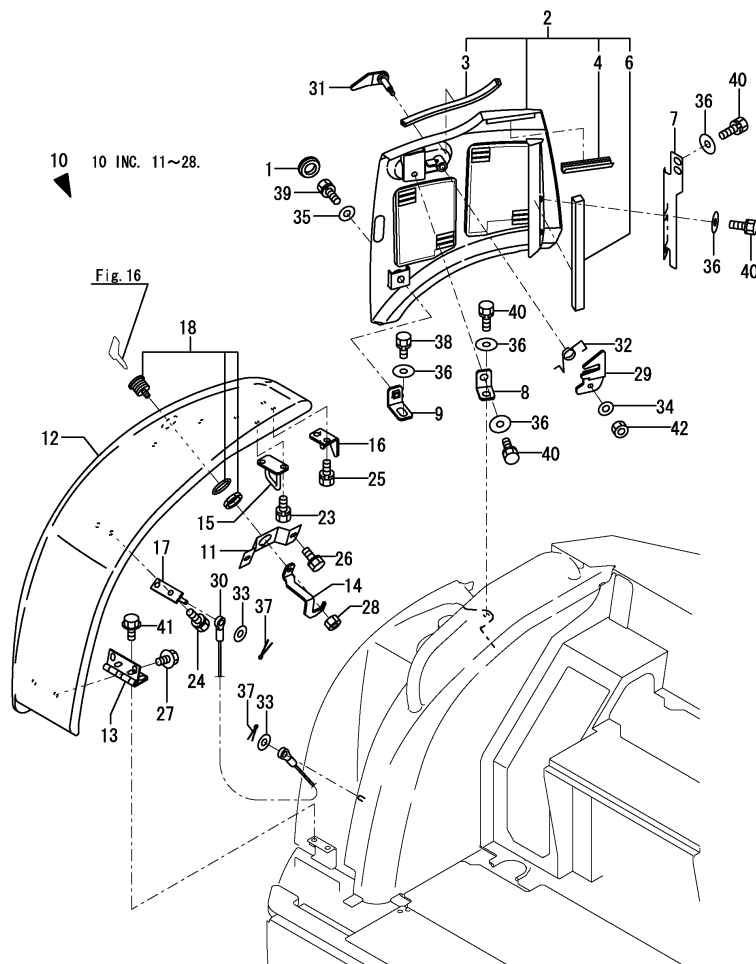


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172441-44320	ARMREST	2							
2	1	172472-64532-1	PLATE, ARMREST	1							
3	1	172472-64542-1	PLATE, ARMREST	1							
4	1	172165-66980	BOLT	4							
5	1	22137-080000	WASHER, 8	4							
6	1	26577-080122	SCREW, M8X12	4							

Fig.49. BONNET(1)

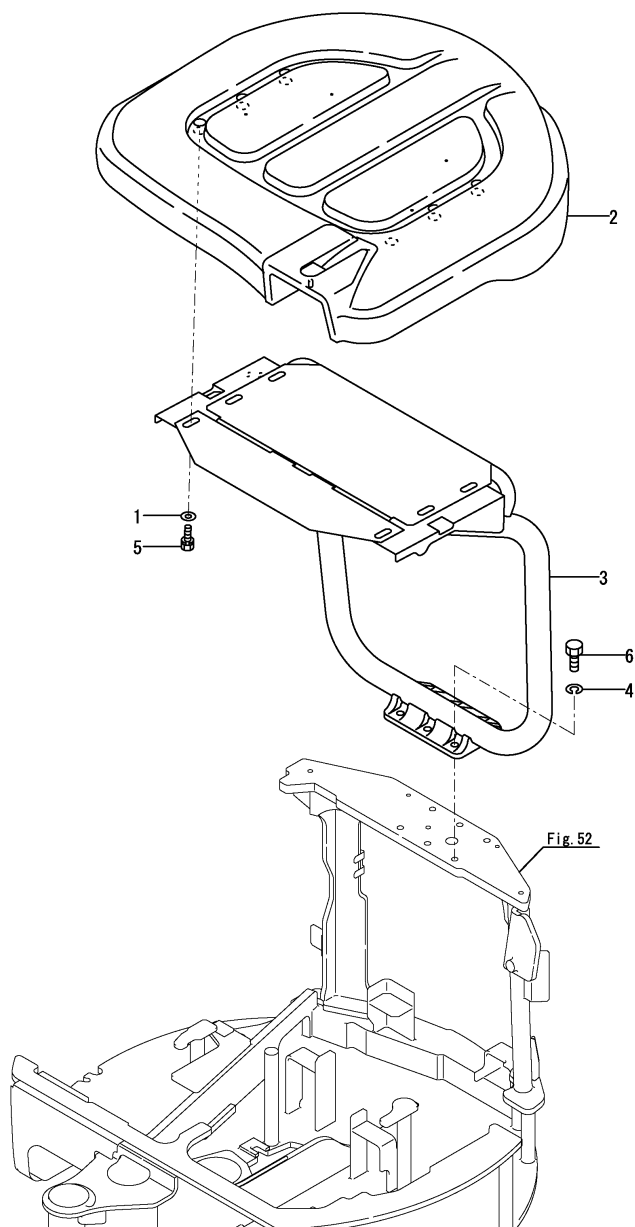


				(A)=VIO20-3B P(KR) (B)= (C)=	(D)= (E)= (F)=		
No.	Lev.	Parts No.	Description	(A)	(B)	Q'ty (C) (D) (E) (F)	I R
1	1	194145-04810	WASHER, 10	2			
2	1	194145-04810	WASHER, 10	2			
3	1	172458-11552	BRACKET ASSY	1			
4	1	1A1380-62160	WASHER, BELT COVER	1			
5	1	172444-64730	ROD ASSY, STOPPER	1			
6	1	172458-65050	SHAFT	1			
7	1	172458-65060	COVER, LOCK	1			
8	1	172456-65150-1	BRACKET, LOCK	1			
9	1	172456-65171	BRACKET B, LOCK	1			
10	1	172187-65210	LEVER ASSY, LOCK	1			
11	1	172458-65271	PLATE, LOCK	1			
12	1	172734-65270	SPRING, CATCH	1			
13	1	172124-65480	CATCHER	1			
14	1	172A23-08450	BONNET KIT, Y	1			
14-1	1	172A23-08451	BONNET KIT, Y D	1			S
(A=MBF001)							
14A	2	172A64-03050	EMBLEM ASSY	1			
14A-1	2	172A64-03400	EMBLEM ASSY,FY L2 Y	1			S
(A=MBF001)							
14B	2	172A23-65600	BONNET ASSY	1			
15	3	172458-65070	SEAL	1			
16	3	172458-65080	RUBBER, SEAL	1			
17	3	172487-65111	SEAL A	1			
18	3	172487-65121	SEAL B	1			
19	3	172487-65130	INSURATOR	1			
20	3	172487-65140	INSURATOR	1			
22	1	172164-66170	KEY ASSY, CYLINDER	1			
27	1	22137-080000	WASHER, 8	1			
28	1	22137-100000	WASHER, 10	2			
29	1	22137-100000	WASHER, 10	2			
30	1	22417-200200	PIN, COTTER 2.0X20	2			
31	1	22417-200200	PIN, COTTER 2.0X20	2			
32	1	26013-100252	BOLT, SPRING M10X 25	2			
33	1	26013-100252	BOLT, SPRING M10X 25	2			
34	1	26013-100252	BOLT, SPRING M10X 25	2			
35	1	26013-100252	BOLT, SPRING M10X 25	2			
36	1	26347-100002	NUT, M10	1			



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A21-61600	PLUG	1							
2	1	172456-65302-Y	BONNET R ASSY	1							
3	2	172434-61190	TRIM	1							
4	2	172458-61500	RUBBER, SEAL	1							
6	2	172456-65890	SEAL 20X20	1							
7	1	172456-65441	BRACKET A	1							
8	1	172456-65450	BRACKET B,BONNET R	1							
9	1	172456-65461	BRACKET ASSY	1							
10	1	172A23-65490	BONNET ASSY,B TY	1							1
10-1	1	172A36-65530	BONNET ASSY,B BK	1							S 2
	(A=MBF001)										
11	2	172455-65230	PLATE, KEY	1							
12	2	172A23-65500	BONNET,B Y	1							1
12-1	2	172A36-65540	BONNET B,BLACK	1							S 2
	(A=MBF001)										
13	2	172456-65511	HINGE, BONNET	1							
14	2	172487-65520	PLATE,HOOK	1							
15	2	172458-65540	PLATE ASSY, STOPPER	1							
16	2	172458-65560	PLATE, GUIDE	1							
17	2	172458-65640	STAY ASSY, WIRE	1							
18	2	172164-66170	KEY ASSY, CYLINDER	1							
23	2	26013-100202	BOLT, SPRING M10X 20	2							
24	2	26013-100202	BOLT, SPRING M10X 20	2							
25	2	26014-100202	BOLT, M10X 20	2							
26	2	26014-100202	BOLT, M10X 20	2							
27	2	26106-100162	BOLT, M10X 16 PLATED	2							
28	2	26347-100002	NUT, M10	1							
29	1	172456-65520	PLATE,HOOK	1							
30	1	172458-65600	CABLE	1							
31	1	172458-65610	HOOK ASSY	1							
32	1	172156-65690	SPRING, STOPPER	1							
33	1	22137-080000	WASHER, 8	2							
34	1	22137-080000	WASHER, 8	1							
35	1	22137-100000	WASHER, 10	1							
36	1	22157-100000	WASHER, 10	6							
37	1	22417-200200	PIN, COTTER 2.0X20	2							
38	1	26013-100202	BOLT, SPRING M10X 20	1							
39	1	26013-100252	BOLT, SPRING M10X 25	1							
40	1	26013-100252	BOLT, SPRING M10X 25	5							
41	1	26106-100162	BOLT, M10X 16 PLATED	2							
42	1	26347-080002	NUT, M8	1							

Remarks
(1)Color = TURMERIC YELLOW.
(2)Color = BLACK.



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172730-05250	WASHER	6							
2	1	172458-67100	ROOF ASSY,CANOPY	1							1
2-1	1	172458-67000	ROOF ASSY, CANOPY D	1							S 2
(A=MBF001)											
3	1	172A23-67111-1	CANOPY ASSY, TOPS	1							
3-1	1	172A23-67111-N	CANOPY ASSY, TOPS	1							S
(A=MBF001)											
4	1	22217-160000	WASHER, SPRING 16	6							
5	1	26013-120302	BOLT, SPRING M12X 30	6							
6	1	26076-160402	BOLT, 10.916X 40	6							

Remarks
(1)Color = NATURAL WHITE.
(2)Color = NAVY GRAY.

(D)=

$$(E)=$$
$$(F)=$$

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	172165-53500	WASHER	4							
2	1	172A23-67211-1	MOUNT,CANOPY (49)	1							
3	1	22217-160000	WASHER, SPRING 16	4							
4	1	26116-160452	BOLT. M16X 45 PLATED	4							

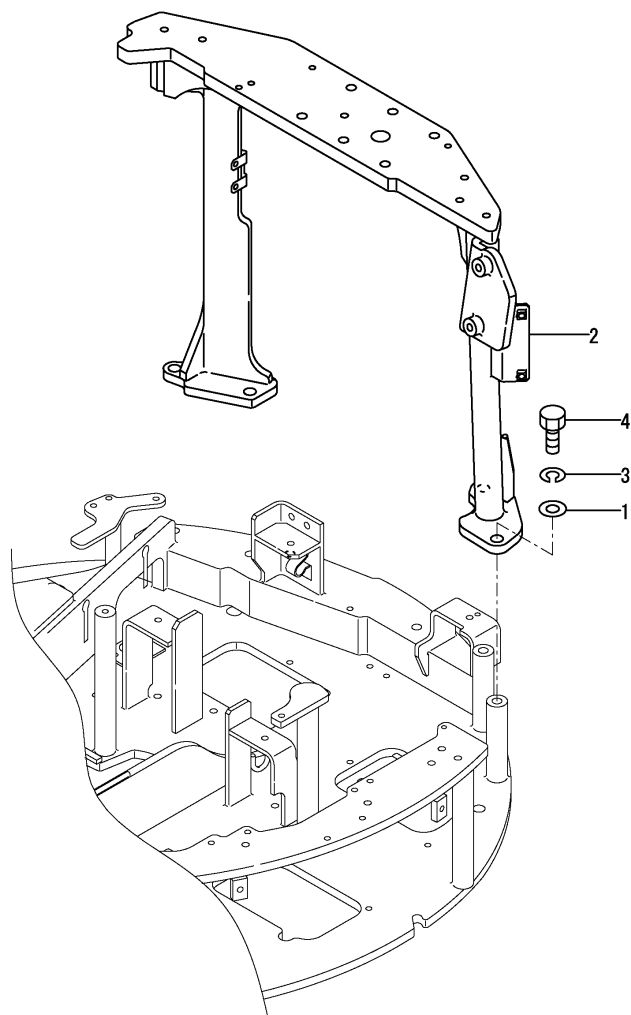
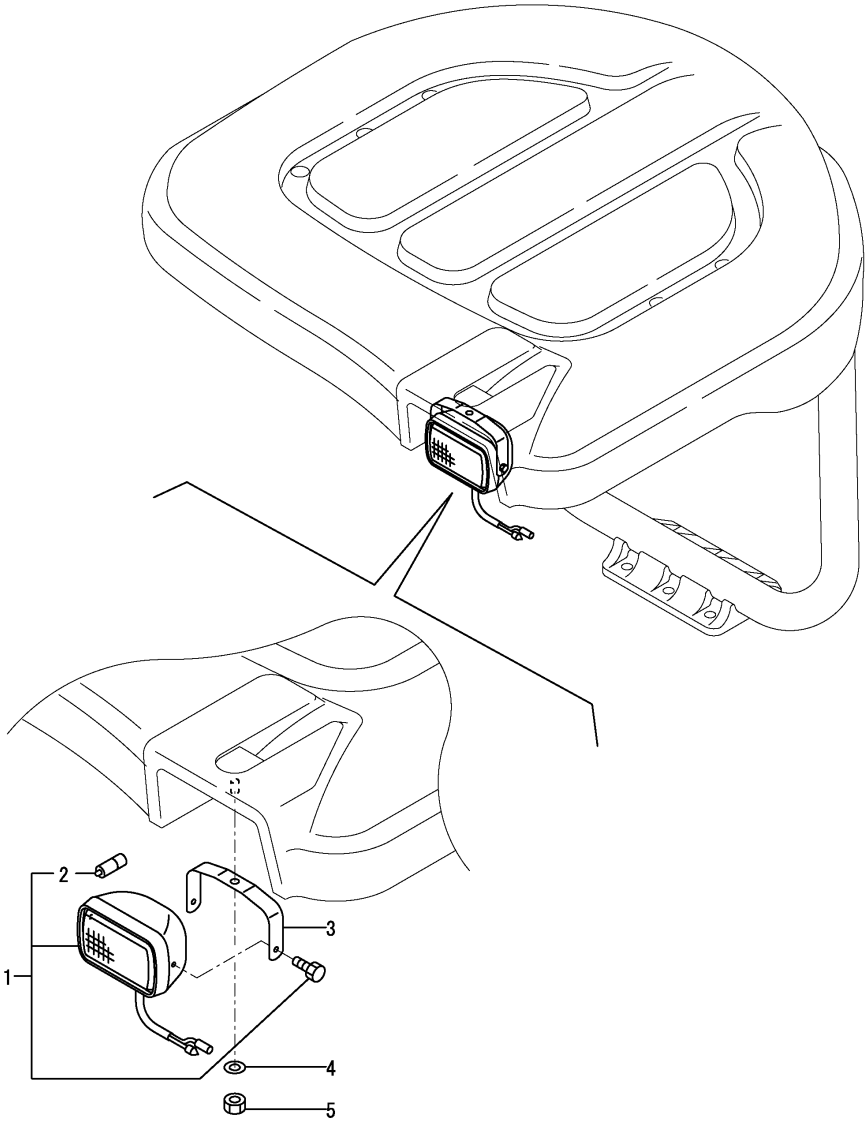


Fig.53. CANOPY LAMP



(A)=VIO20-3B P(KR)
(B)=
(C)=
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172458-17400	LAMP	1							
2	2	172458-17420	BULB	1							
3	1	172458-17410	STAY, LAMP	1							
3-1	1	172458-17410-4 (A=MBF001)	STAY, LAMP	1							S
4	1	22137-100000	WASHER, 10	1							
5	1	26346-100002	NUT, M10	1							

Fig.54. HYDRAULIC PUMP MOUNT

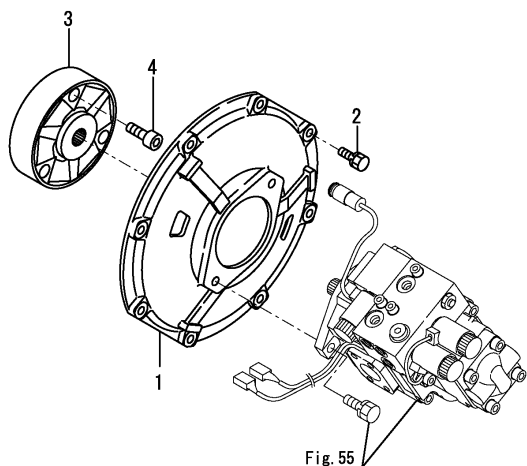


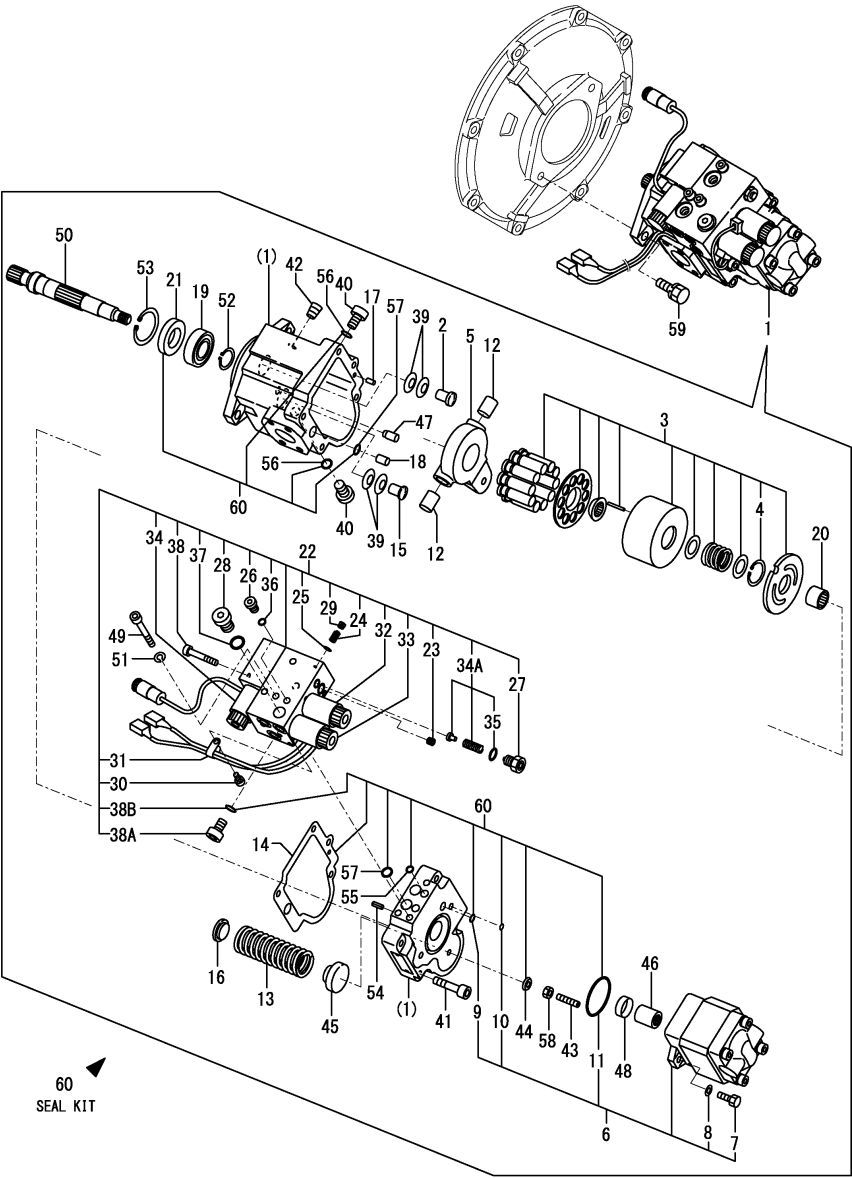
Fig. 55

(A)=VIO20-3B P(KR)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	172168-71101-4	COVER, FLYWHEEL	1							
2	1	26013-100302	BOLT, M10X 30	8							
3	1	172165-71200	COUPLING	1							
4	1	26450-120402	BOLT, M12X 40	3							

Fig.55. HYDRAULIC PUMP



Remarks
(1)For second gear traveling.
(2)For safety lock.
(3)For quick coupler.

(A)=VIO20-3B P(KR)
(B)=
(C)=

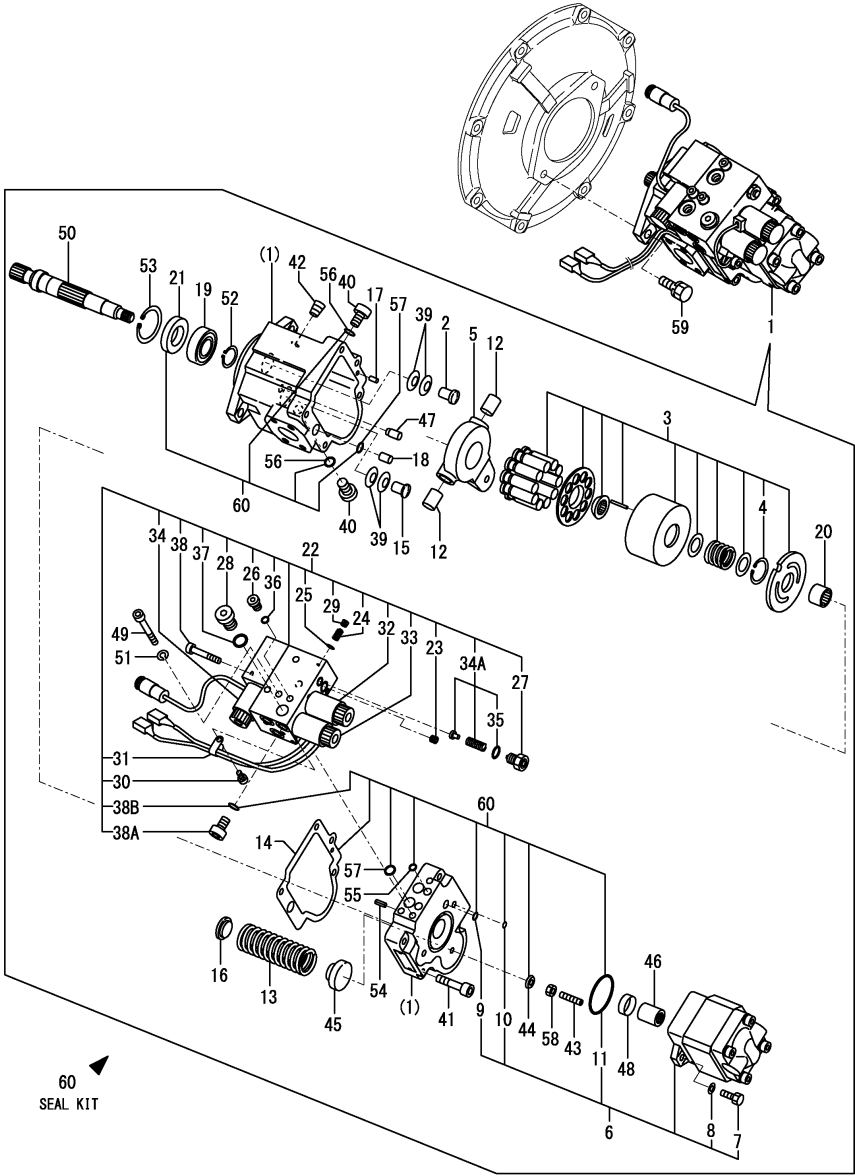
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A30-73100	PUMP ASSY, Q	1							
2	2	172450-73110	PIN,STOPPER	1							
3	2	172A23-73110	BARREL KIT, CYLINDER	1							
4	3	172448-73190	SNAP RING	1							
5	2	172422-73140	PLATE, SWASH	1							
6	2	172A23-73140	PUMP ASSY, GEAR	1							
7	3	172450-73120	BOLT, HEXAGON 8X25	2							
8	3	172450-73130	WASHER	2							
9	3	24315-000070	O-RING, 1BP7.0	1							
10	3	24315-000080	O-RING, 1BP8.0	1							
11	3	24325-000550	O-RING, 1BG55.0	1							
12	2	172422-73160	PIN, SWING	2							
13	2	172A23-73160	SPRING, T1	1							
14	2	172422-73170	GASKET	1							
15	2	172448-73180	PIN A,STOPPER	1							
16	2	172422-73200	HOLDER	1							
17	2	172422-73220	PIN	1							
18	2	172422-73280	PIN	1							
19	2	172422-73290	BEARING, BALL	1							
20	2	172422-73500	BEARING, NEEDLE	1							
21	2	172422-73510	SEAL, OIL	1							
22	2	172958-73511	BLOCK ASSY, VALVE	1							
22-1	2	172A30-73500	VALVE KIT, SOL	1							N
(A=MBF315)											
23	3	172422-73550	PLUG	8							
24	3	172422-73620	SPRING	1							
25	3	172422-73630	FILTER, COIN	1							
26	3	172458-73630	PLUG	1							
27	3	172422-73640	ADJUSTER KIT	1							
28	3	172458-73640	PLUG	1							
29	3	172422-73650	PLUG	2							
30	3	172422-73660	BOLT, HEX SOCKET	1							
31	3	172422-73670	BAND, BANDING	1							
32	3	172458-73680	VALVE, SC	1							1
33	3	172458-73690	VALVE, SC	1							2
34	3	172458-73790	VALVE, SOLENOID	1							3
34A	3	172A64-73280	RELIEF KIT	1							
35	4	24315-000100	O-RING, 1BP10.0	1							
36	3	24315-000080	O-RING, 1BP8.0	1							
37	3	24315-000140	O-RING, 1BP14.0	1							
38	3	26450-050452	BOLT, M5X 45	4							
38A	3	172422-73530	PLUG	1							
38B	3	24315-000110	O-RING, 1BP11.0	1							
39	2	172422-73520	SPRING	4							
40	2	172422-73530	PLUG	2							
41	2	172422-73540	BOLT, HEX SOCKET	5							
42	2	172422-73550	PLUG	5							
43	2	172422-73560	SCREW, HEX. SOCKET	1							
44	2	172422-73570	WASHER, SEAL	1							
45	2	172458-73570	GUIDE, SPRING	1							
46	2	172422-73580	COUPLING	1							

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

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Fig.55. HYDRAULIC PUMP



Remarks
(1)For second gear traveling.
(2)For safety lock.
(3)For quick coupler.

0CK50-M00470 Fig.55

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
47	2	172458-73580	ROD, G	1							
48	2	172422-73590	COLLAR	1							
49	2	172422-73610	BOLT, HEX SOCKET	3							
50	2	172458-73660	SHAFT	1							
51	2	22212-080000	WASHER 8	3							
52	2	22242-000250	RING, 25	1							
53	2	22252-000520	RING, 52	1							
54	2	22351-060016	PIN, SPRING 6.0X16	1							
55	2	24315-000080	O-RING, 1BP8.0	1							
56	2	24315-000110	O-RING, 1BP11.0	2							
57	2	24315-000120	O-RING, 1BP12.0	3							
58	2	26711-080002	NUT, M8	1							
59	1	26013-120302	BOLT, M12X 30	2							
60	1	172A23-73131	SEAL KIT,PUMP	1							

N:Old $\xrightarrow{\text{Yes}}$ New, Q:Old $\xrightarrow{\text{No}}$ New, R:Old $\xrightarrow{\text{Yes}}$ New, S:Old $\xrightarrow{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.56. BOOM CYLINDER

(A)=VIO20-3B P(KR)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A23-70101	CYLINDER ASSY, BM P	1							
2	2	172A23-70111	TUBE ASSY	1							
3	3	172A23-70120	BUSH, PIN 40	1							
4	2	172A23-70130	ROD ASSY	1							
5	3	172A23-70120	BUSH, PIN 40	1							
6	2	172A23-70140	HEAD ASSY	1							
8	3	172A23-70160	BEARING, SLEEVE	1							
9	3	172A23-70210	RING, RETAINING	1							
10	2	172A23-70220	PISTON ASSY	1							
11	3	172A23-70230	PISTON	1							
12	3	172A23-70240	SCREW, M6	1							
13	3	24190-050002	BALL, STEEL 5/32	1							
14	2	172A23-70250	PLUNGER, CUSHION	1							
15	2	172A23-70260	COLLAR, CUSHION	1							
16	2	172A23-70270	PIPE ASSY	1							
17	2	172A23-70280	PIPE ASSY	1							
18	2	172A23-70290	PLUG ASSY	2							
19	3	172A23-70300	PLUG	2							
20	3	172A23-70310	WASHER	2							
21	3	172A23-70320	HOLDER, PIPE	2							
22	3	24315-000150	O-RING, 1BP15.0	4							
23	3	26013-080162	BOLT, M8X 16	2							
24	2	172A23-70330	SEAL KIT	1							
25	3	172A23-70340	SEAL KIT, HEAD	1							
26	3	172B04-72690	SEAL SET,PISTON 70	1							
27	2	172B04-72770	SEAL,DUST 40	4							
28	2	24761-020000	NIPPLE, GREASE PT1/8	2							
29	1	172456-72200-N	COVER, SLIDE	1							
30	1	172457-72230-N	COVER ASSY, CYLINDER	1							
31	1	172457-72240-N	COVER, CYLINDER	1							
32	1	172186-72480	GUIDE, SLIDE	2							
33	1	22217-100000	WASHER, SPRING 10	1							
34	1	22217-100000	WASHER, SPRING 10	4							
35	1	26116-100162	BOLT, M10X 16 PLATED	1							
36	1	26116-100162	BOLT, M10X 16 PLATED	4							
37	1	933147-03400	WASHER, BRAKE ARM	1							
38	1	933168-14170	SPRING	2							

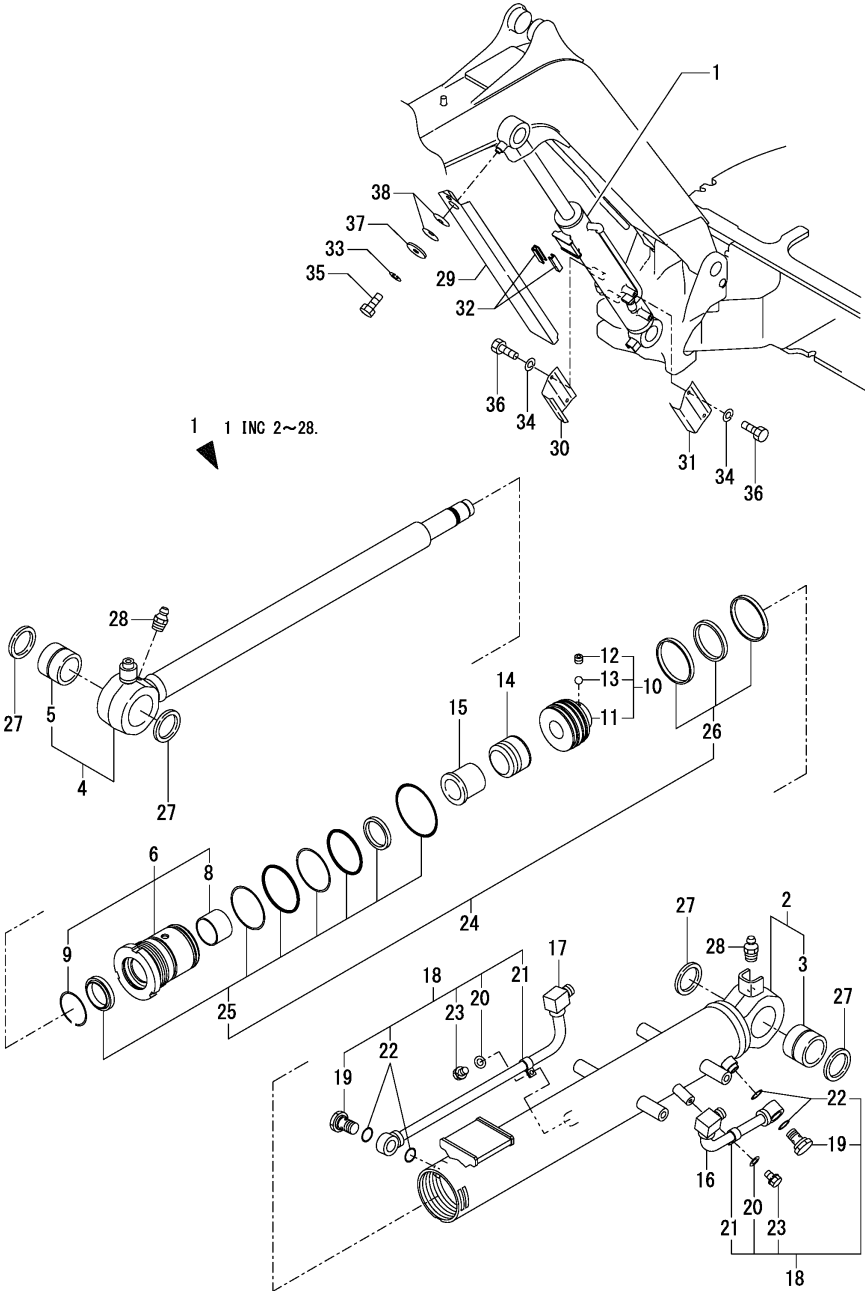
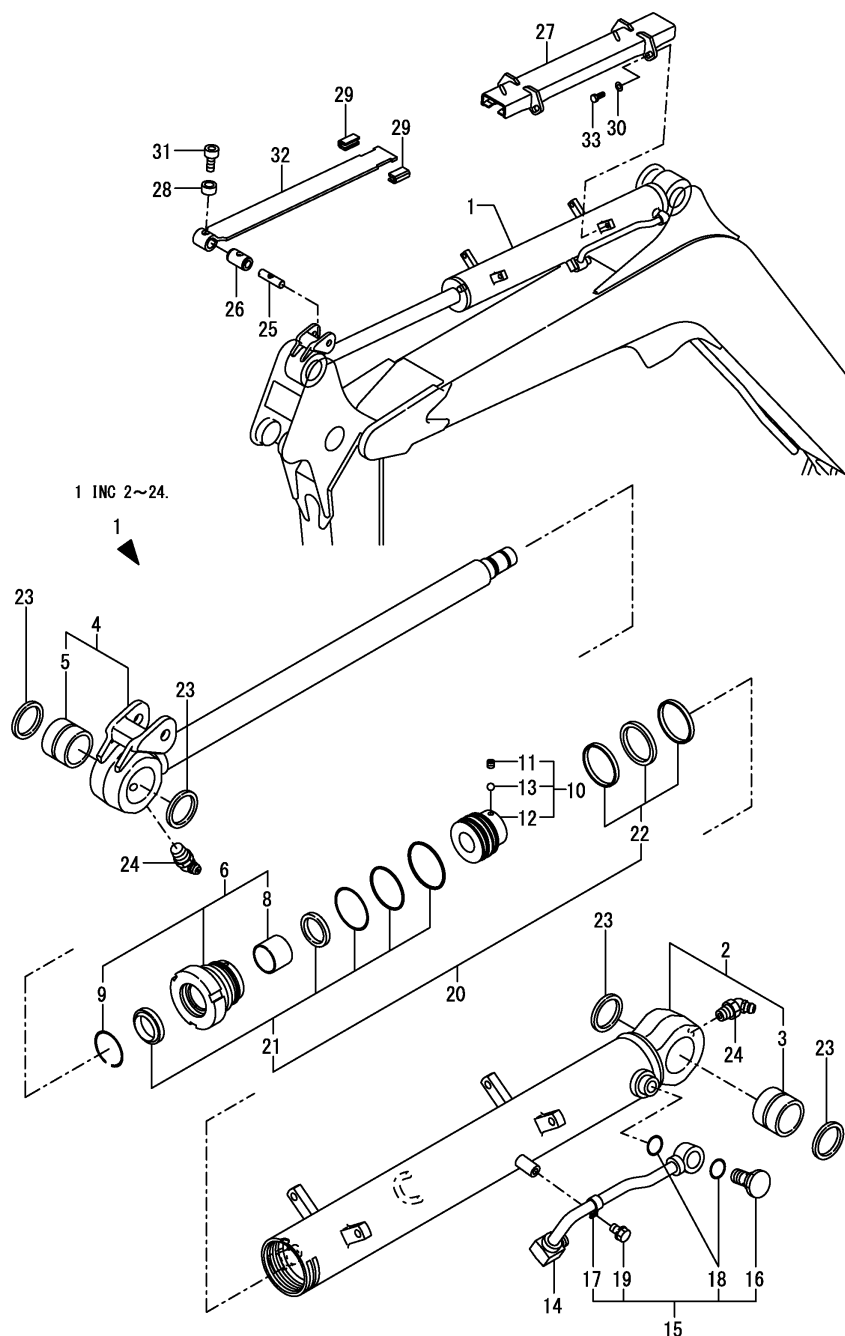
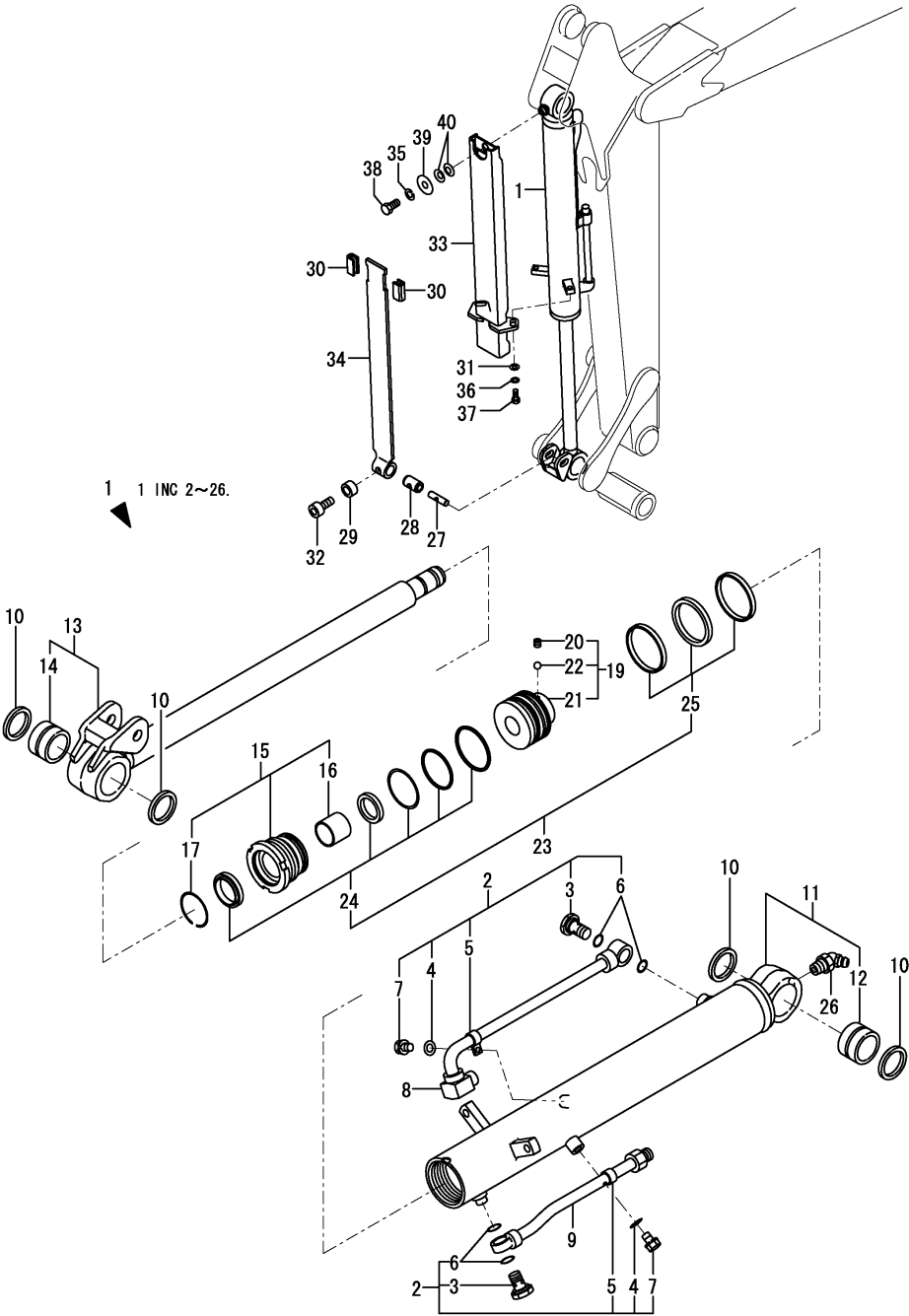


Fig.57. ARM CYLINDER



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A23-70500	CYLINDER ASSY,AM	1							
2	2	172A23-70510	TUBE ASSY	1							
3	3	172A23-70120	BUSH, PIN 40	1							
4	2	172A23-70520	ROD ASSY	1							
5	3	172A23-70120	BUSH, PIN 40	1							
6	2	172A23-70530	HEAD ASSY	1							
8	3	172A23-70550	BEARING, SLEEVE	1							
9	3	172A23-70560	RING, RETAINING	1							
10	2	172A23-70570	PISTON ASSY	1							
11	3	172A23-70240	SCREW, M6	1							
12	3	172A23-70580	PISTON	1							
13	3	24190-050002	BALL, STEEL 5/32	1							
14	2	172A23-70590	PIPE ASSY	1							
15	2	172A23-70600	PLUG ASSY	1							
16	3	172A23-70610	PLUG	1							
17	3	172A23-70620	HOLDER, PIPE	1							
18	3	24315-350220	O-RING, 1BP22A	2							
19	3	26013-080162	BOLT, M8X 16	1							
20	2	172A23-70630	SEAL KIT	1							
21	3	172A23-70640	SEAL KIT, HEAD	1							
22	3	172A23-70650	SEAL KIT, PISTON	1							
23	2	172B04-72770	SEAL,DUST 40	4							
24	2	24761-040000	NIPPLE, GREASE B	2							
25	1	172A23-72043	SHAFT	1							
26	1	172A23-72052	GROMMET	1							
27	1	172A23-72062-N	GUIDE ASSY, 545	1							
28	1	172A46-72070	SPACER	1							
29	1	172A23-72081	GUIDE, SLIDE	2							
30	1	172A79-72570	WASHER	4							
31	1	172A47-72840	BOLT	1							
32	1	172A23-72951-N	PLATE,SLIDE 585	1							
33	1	26076-100252	BOLT, 10.910X 25	4							

Fig.58. BUCKET CYLINDER

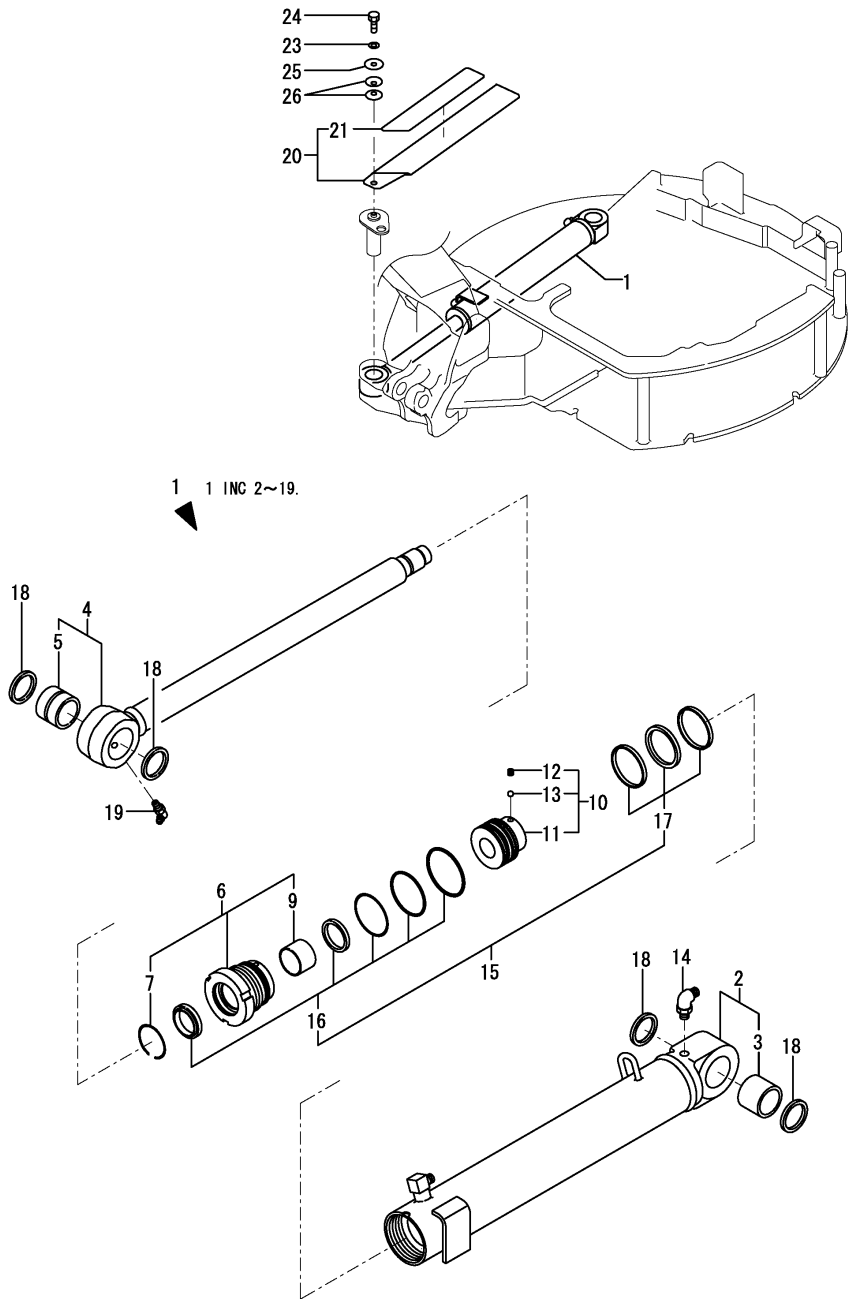


(A)=VIO20-3B P(KR)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A23-71100	CYLINDER ASSY, BKT Q	1							
2	2	172A23-70290	PLUG ASSY	2							
3	3	172A23-70300	PLUG	2							
4	3	172A23-70310	WASHER	2							
5	3	172A23-70320	HOLDER, PIPE	2							
6	3	24315-000150	O-RING, 1BP15.0	4							
7	3	26013-080162	BOLT, M8X 16	2							
8	2	172A23-70810	PIPE ASSY	1							
9	2	172A23-70820	PIPE ASSY	1							
10	2	172A23-70830	SEAL, DUST PIN 35	4							
11	2	172A23-71110	TUBE ASSY	1							
12	3	172A23-70720	BUSH, PIN 35	1							
13	2	172A23-71120	ROD ASSY	1							
14	3	172A23-70720	BUSH, PIN 35	1							
15	2	172A23-71130	HEAD ASSY	1							
16	3	172A23-70550	BEARING, SLEEVE	1							
17	3	172A23-70560	RING, RETAINING	1							
19	2	172A23-71170	PISTON ASSY	1							
20	3	172A23-70800	SCREW, M6	1							
21	3	172A23-71180	PISTON	1							
22	3	24190-050002	BALL, STEEL 5/32	1							
23	2	172A23-71190	SEAL KIT	1							
24	3	172A23-71200	SEAL KIT, HEAD	1							
25	3	172A23-71210	SEAL KIT, PISTON	1							
26	2	24761-040000	NIPPLE, GREASE B	1							
27	1	172A23-72043	SHAFT	1							
28	1	172A23-72052	GROMMET	1							
29	1	172A46-72070	SPACER	1							
30	1	172A23-72081	GUIDE, SLIDE	2							
31	1	172A79-72570	WASHER	2							
32	1	172A47-72840	BOLT	1							
33	1	172A23-72902-N	GUIDE ASSY, 595	1							
34	1	172A23-72951-N	PLATE,SLIDE 585	1							
35	1	22217-100000	WASHER, SPRING 10	1							
36	1	22217-100000	WASHER, SPRING 10	2							
37	1	26076-100252	BOLT, 10.910X 25	2							
38	1	26116-100162	BOLT, M10X 16 PLATED	1							
39	1	933147-03400	WASHER, BRAKE ARM	1							
40	1	933168-14170	SPRING	2							

Fig.59. SWING CYLINDER

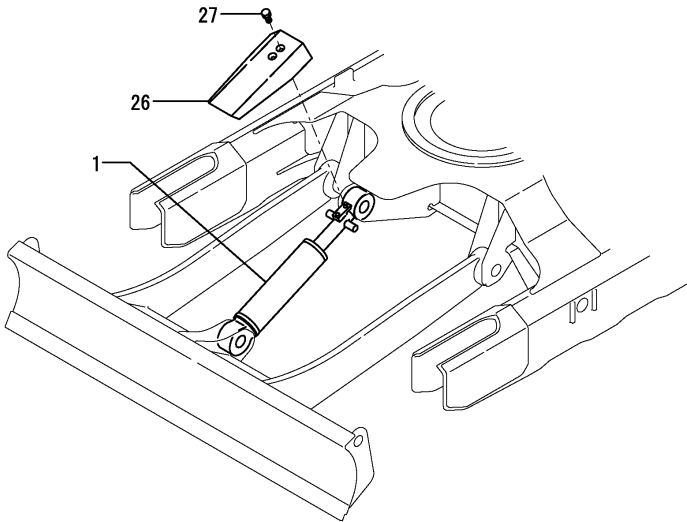


							Q'ty						I R	
							(A)	(B)	(C)	(D)	(E)	(F)		
No.	Lev.	Parts No.	Description											
1	1	172A23-71400	CYLINDER ASSY, SWING				1							
2	2	172A23-71410	TUBE ASSY				1							
3	3	172A23-71420	BUSH, PIN 40				1							
4	2	172A23-71430	ROD ASSY				1							
5	3	172A23-70120	BUSH, PIN 40				1							
6	2	172A23-71440	HEAD ASSY				1							
7	3	172A23-70210	RING, RETAINING				1							
9	3	172A23-71460	BEARING, SLEEVE				1							
10	2	172A23-71470	PISTON ASSY				1							
11	3	172A23-71480	PISTON				1							
12	3	172A79-72870	SCREW,M8				1							
13	3	24190-070002	BALL, STEEL 7/32				1							
14	2	172A23-71490	ELBOW, G1/4				1							
15	2	172A23-71500	SEAL KIT				1							
16	3	172A23-71510	SEAL KIT, HEAD				1							
17	3	172B04-72690	SEAL SET,PISTON 70				1							
18	2	172B04-72770	SEAL,DUST 40				4							
19	2	24761-050000	NIPPLE, GREASE C				1							
20	1	172456-72790-2	COVER, SWING				1							
21	2	172164-62431	SHEET				1							
23	1	22217-100000	WASHER, SPRING 10				1							
24	1	26116-100162	BOLT, M10X 16 PLATED				1							
25	1	933147-03400	WASHER, BRAKE ARM				1							
26	1	933168-14170	SPRING				2							

Fig.60. BLADE CYLINDER

(A)=VIO20-3B P(KR)
(B)=
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172421-72700-2	CYLINDER ASSY, BLADE	1							
2	2	172168-72020	SEAL SET, HEAD 70X40	1							
7	2	172460-72070	SEAL SET, PISTON	1							
10	2	172143-72400	HEAD 70 40	1							
12	3	24550-040300	BUSH, 40X30	1							
13	2	172141-72420	WASHER, LOCK	1							
14	2	172175-72550	NUT	1							
15	2	172421-72610-2	TUBE ASSY, BLADE	1							
16	3	172168-72240	BUSH	1							
18	3	172168-81270	SEAL, DUST	2							
19	2	172421-72620	ROD ASSY,BLADE	1							
20	3	172168-72240	BUSH	1							
22	4	23871-005000	PLUG, R005	1							
23	3	172168-81270	SEAL, DUST	2							
24	2	172421-72770	PISTON	1							
25	2	933111-26600	RING, SPRING	1							
26	1	172A23-72800	COVER ASSY, BLADE	1							
27	1	26013-100202	BOLT, M10X 20	2							

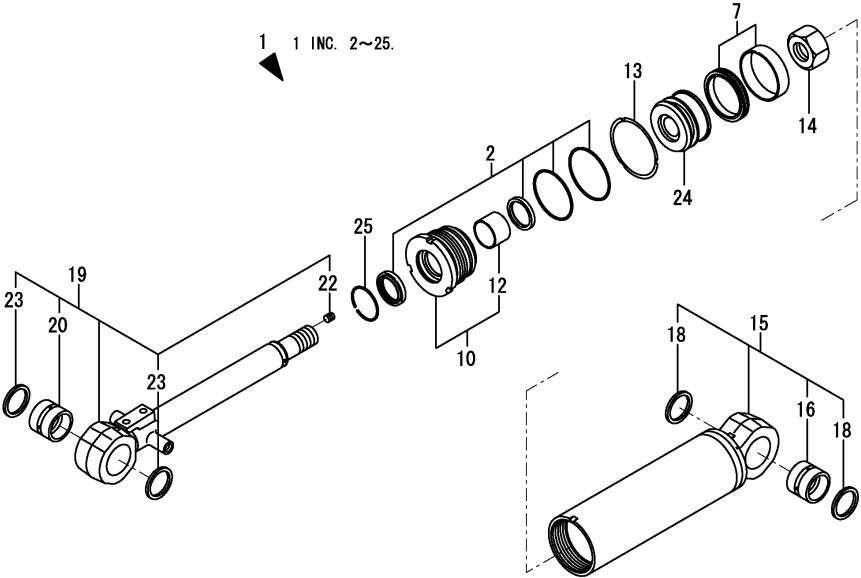
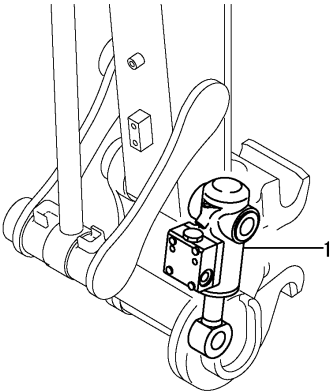


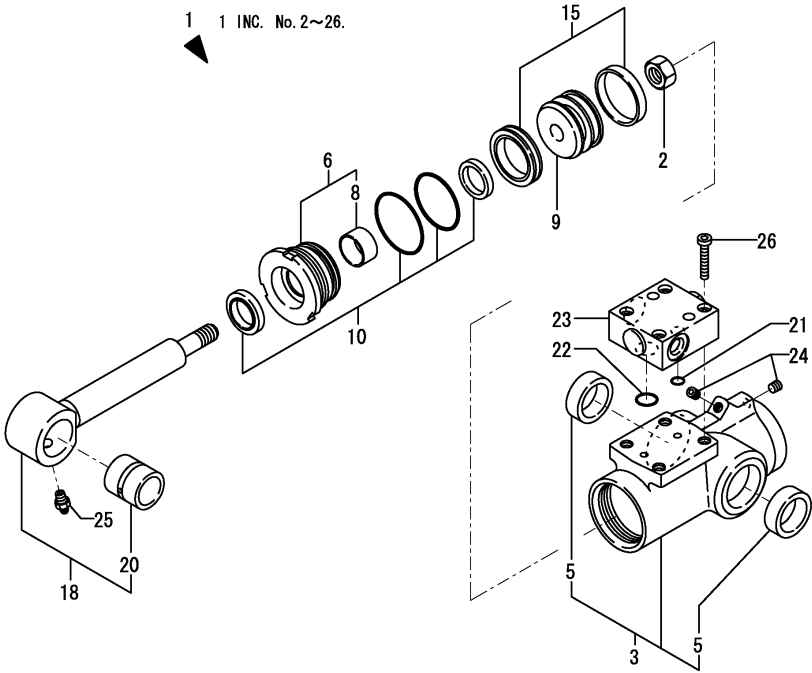
Fig.61. HITCH CYLINDER

(A)=VIO20-3B P(KR)
(B)=
(C)=

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



1 1 INC. No. 2~26.

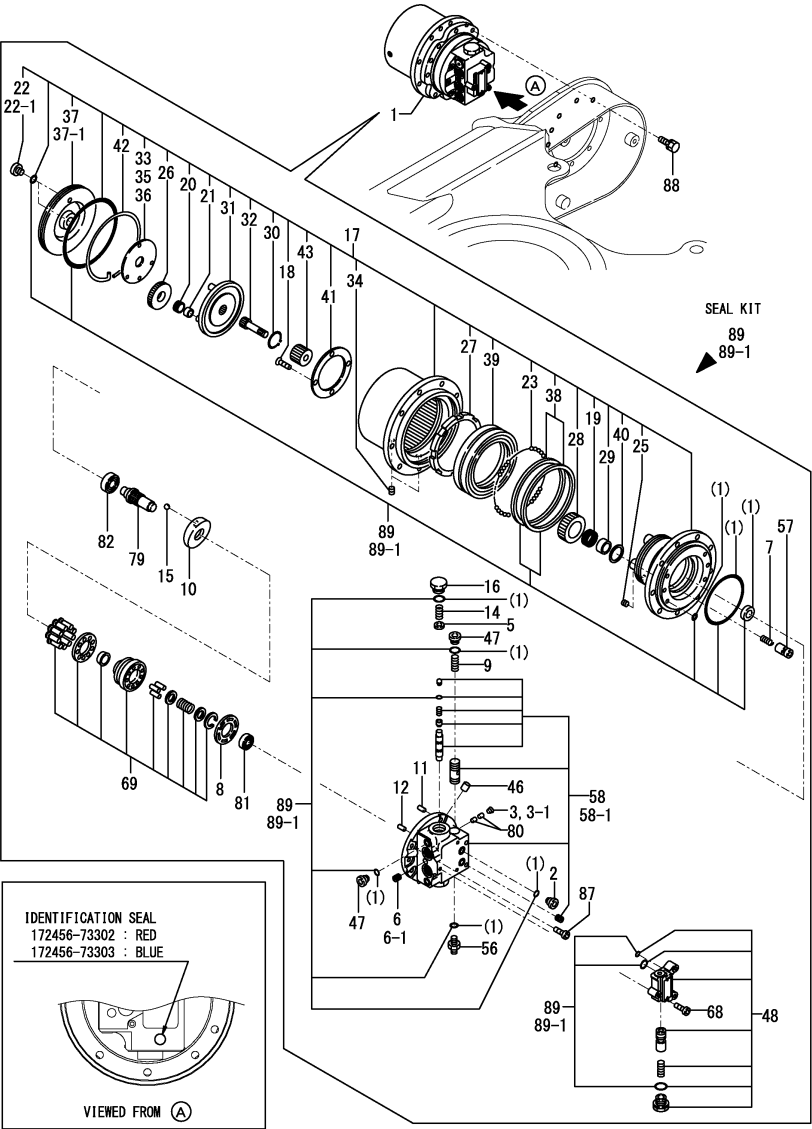


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172956-72800-N	CYLINDER ASSY, HITCH	1							
2	2	172156-72400	NUT	1							
3	2	172956-72810-N	TUBE, HITCH	1							
5	3	172956-72880	BUSH (25-33-14.5	2							
6	2	172956-72860	HEAD ASSY 45 25	1							
8	3	24550-025150	BUSH, 25X15	1							
9	2	172956-72890	PISTON 45 25	1							
10	2	172956-72900	SEAL SET, HEAD 45 25	1							
15	2	172956-72910	SEAL SET, PISTON	1							
18	2	172956-72920	ROD ASSY,HITCH	1							
20	3	172156-84440	BUSH 25X 35	1							
21	2	172958-72950	O-RING	1							
22	2	172958-72960	O-RING	1							
23	2	172958-72983-N	VALVE ASSY,OPERATE	1							
24	2	23871-005000	PLUG, R005	2							
25	2	24761-020000	NIPPLE, GREASE PT1/8	1							
26	2	26450-060302	BOLT, M6X 30	4							

Fig.62. TRAVEL MOTOR

(A)=VIO20-3B P(KR)
(B)=
(C)=

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



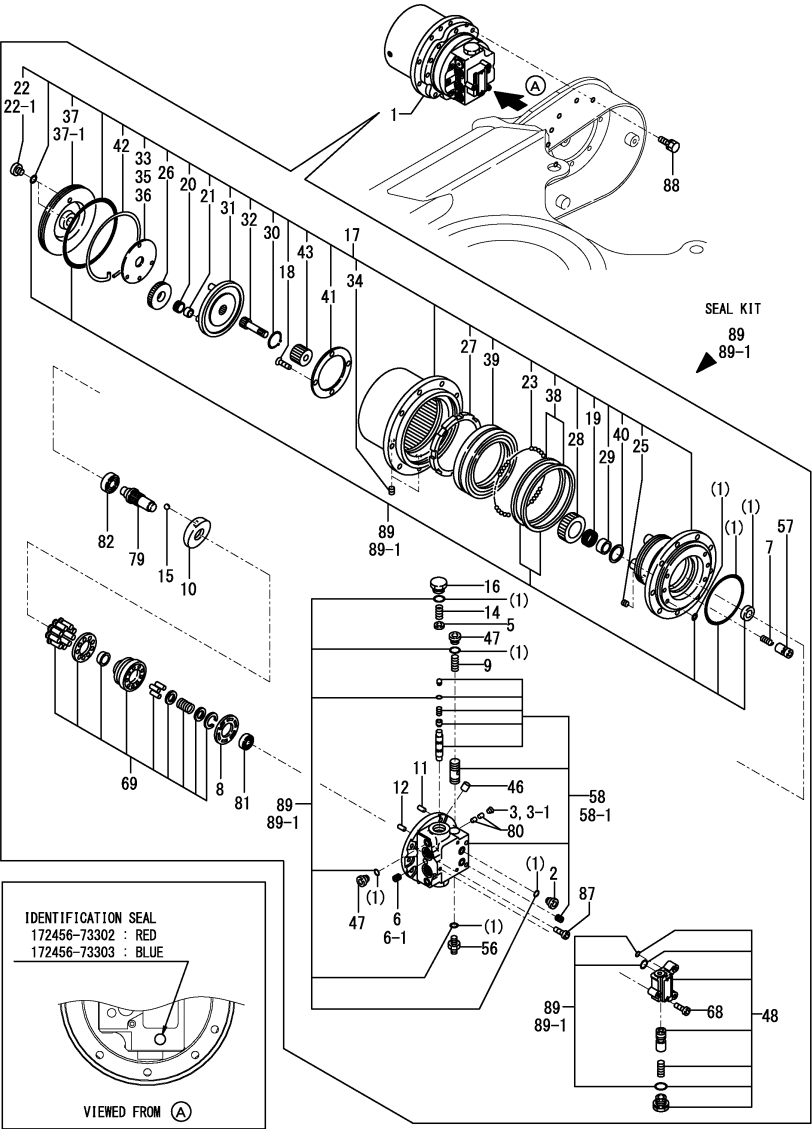
Remarks
(1)IDENTIFICATION SEAL COLOR:RED
(2)IDENTIFICATION SEAL COLOR:BLUE
(3)No.22 is PF : 1/4, No.22-1 is PF : 3/8
No.22-1 & 37-1 interchangeable by set.
(4)IDENTIFICATION SEAL COLOR:BLUE
No.3-1, 16-1 & 58-1 interchangeable by set.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-73302	MOTOR ASSY, TRAVEL	2							1
1-1	1	172456-73303	MOTOR ASSY,TRAVELING	2						N	2
(A=MBF315)											
2	2	1A6240-37360	PLUG	4							
3	2	172147-70220	PLUG	4							1
3-1	2	172B03-73330	PLUG	4						S	4
(A=MBF315)											
5	2	172141-70450	SEAT, SPRING	4							
6	2	172162-70780	PLUG	2							1
6-1	2	172B03-73340	PLUG, M10X1.5	2						S	4
(A=MBF315)											
7	2	172168-71951	SPRING	4							
8	2	172638-73330	PLATE, VALVE	2							
8-1	2	172B03-73290	PLATE, VALVE	2							N
(A=MBF315)											
9	2	172421-73400	SPRING	2							
10	2	172456-73461	PLATE	2							
11	2	172122-73470	PIN	2							
12	2	172122-73480	PIN	4							
14	2	172456-73500	SPRING	4							
15	2	172450-73510	BALL, STEEL	4							
16	2	172456-73510	CAP	4							
17	2	172A23-73510	GEAR, REDUCTION	2							
17-1	2	172A23-73511	REDUCTION GEAR	2							N
(A=MBF315)											
18	3	172141-70110	SCREW	8							
19	3	172147-70120	GAUGE ASSY	8							
20	3	172141-70150	GAUGE, W/ROLLER	6							
21	3	172141-70160	RACE, INNER	6							
22	3	172148-70301	PLUG	4							
22-1	3	172147-70500	PLUG	4						S	3
(A=MBF315)											
23	3	172122-70350	BALL, STEEL	218							
25	3	172450-73330	PLUG	4							
26	3	172421-73350	GEAR, PLANETARY	6							
27	3	172456-73351	NUT, RING	2							
28	3	172456-73360	GEAR, PLANETARY	8							
29	3	172456-73370	INNER RACE	8							
30	3	172456-73390	SNAP RING	2							
31	3	172456-73400	HOLDER	2							
32	3	172456-73410	GEAR, DRIVE	2							
33	3	172456-73420	THRUST PLATE	2							
34	3	172122-73430	PLUG	4							
35	3	172456-73430	THRUST PLATE	2							
36	3	172456-73440	THRUST PLATE	2							
37	3	172456-73450	COVER	2							
37-1	3	172B16-73380	COVER	2						S	3
(A=MBF315)											
38	3	172183-73510	SEAL, FLOATING	2							
39	3	172183-73520	BEARING	2							
40	3	172183-73560	WASHER, THRUST	8							

Fig.62. TRAVEL MOTOR

(A)=VIO20-3B P(KR)
(B)=
(C)=

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



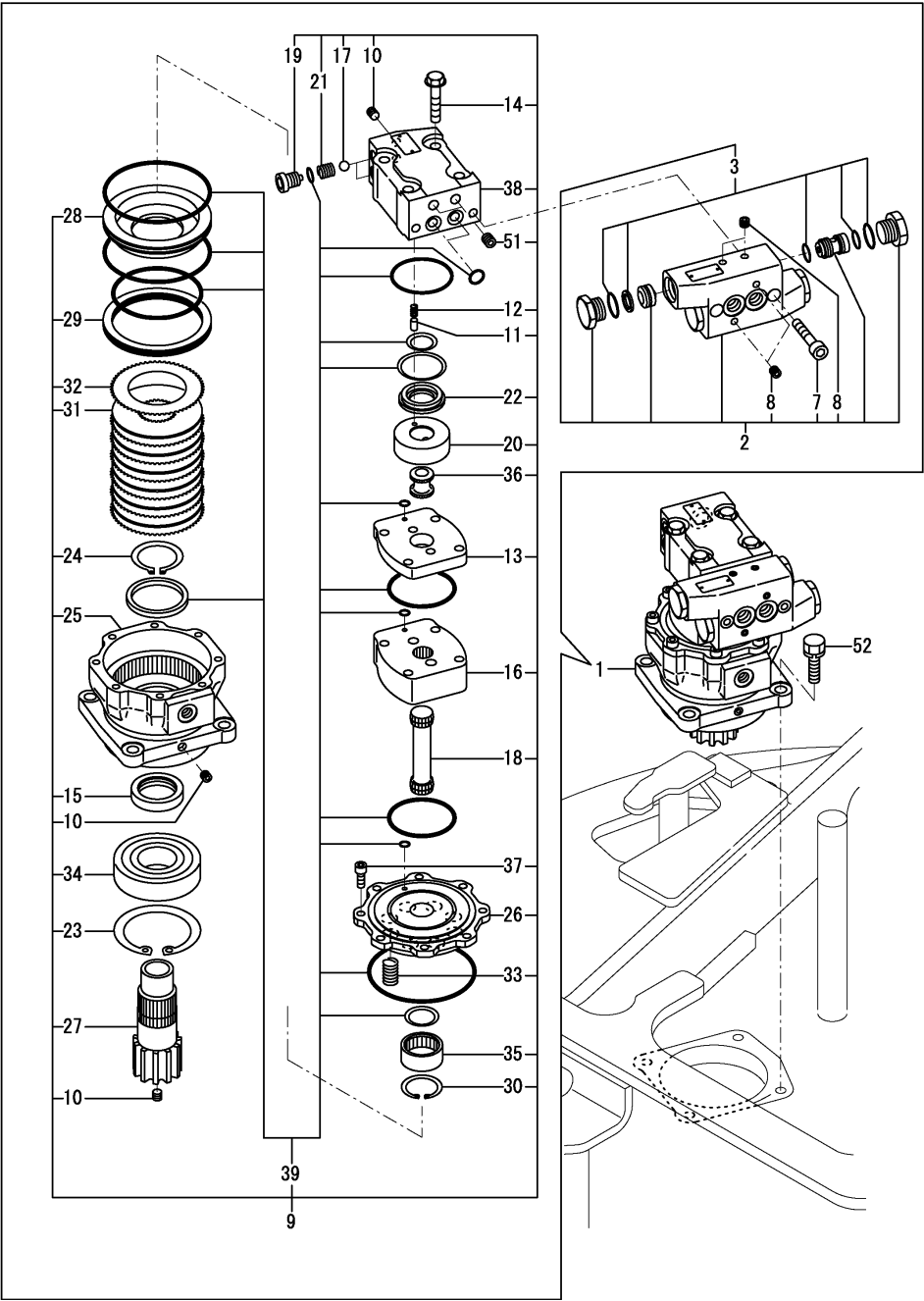
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
41	3	172183-73570	PLATE, THRUST	2							
42	3	172183-73660	WIRE	2							
43	3	172456-73980	SUN GEAR	2							
46	2	172456-73520	ORIFICE	4							
47	2	172A23-73530	PLUG	6							
48	2	172456-73540	VALVE ASSY	2							
56	2	172A23-73540	PLUG	2							
57	2	172450-73551	PISTON ASSY	4							
58	2	172A23-73550	PLATE KIT, BASE	2							1
58-1	2	172A23-73551	PLATE KIT, BASE	2							S 4
(A=MBF315)											
68	2	172456-73570	BOLT, SOCKET HEAD	6							
69	2	172450-73620	BLOCK KIT, CYLINDER	2							
69-1	2	172450-73621	CYLINDER BLOCK KIT	2							N
(A=MBF315)											
79	2	172183-73670	SHAFT	2							
80	2	172312-74790	ORIFICE	8							
81	2	24101-060024	BEARING, BALL 6002	2							
82	2	24101-060044	BEARING, BALL 6004	2							
87	2	26450-080202	BOLT, M8X 20	12							
88	1	26013-100252	BOLT, SPRING M10X 25	16							
89	1	172456-73320	SEAL SET	2							1
89-1	1	172B16-73350	SEAL KIT, MOTOR	2							S 2
(A=MBF315)											

Remarks
(1)IDENTIFICATION SEAL COLOR:RED
(2)IDENTIFICATION SEAL COLOR:BLUE
(3)No.22 is PF : 1/4, No.22-1 is PF : 3/8
No.22-1 & 37-1 interchangeable by set.
(4)IDENTIFICATION SEAL COLOR:BLUE
No.3-1, 16-1 & 58-1 interchangeable by set.

Fig.63. TURNING MOTOR

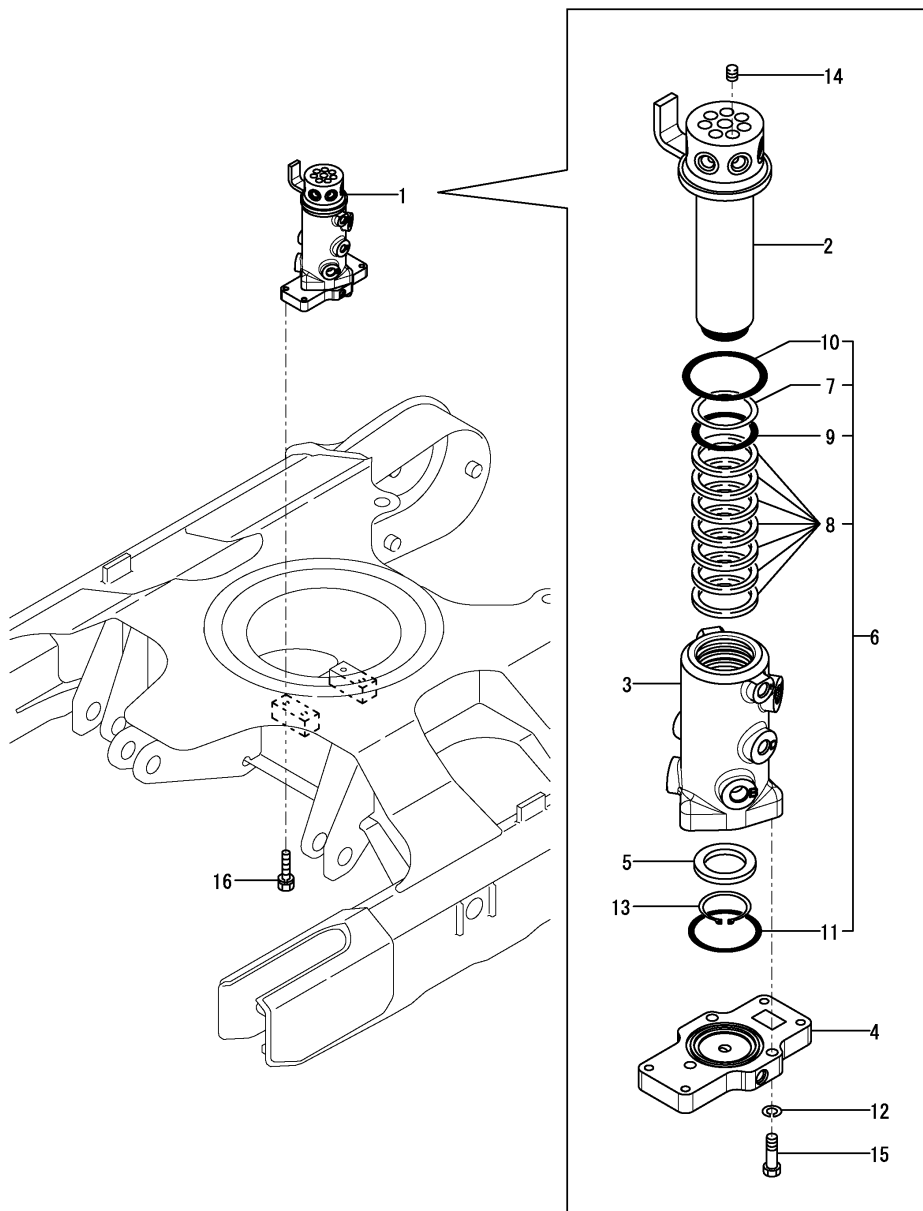
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(B)=
(C)=

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



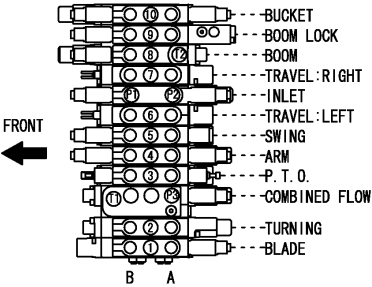
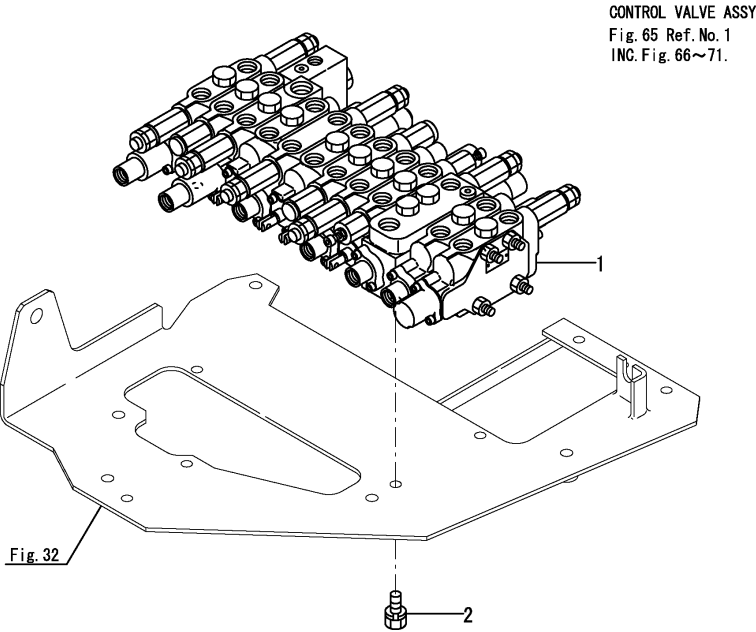
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-73310	MOTOR, SWING	1							
1-1	1	172456-73311	MOTOR ASSY, SWING	1						N	
(A=*2015.06.)											
2	2	172456-77100	VALVE	1							
2-1	2	172456-77101	VALVE ASSY, SHOCKLESS	1						N	
(A=*2015.06.)											
3	3	172456-77110	SEAL SET, VALVE	1							
7	3	172456-77130	BOLT 6*65	2							
8	3	23871-010000	PLUG, R01	6							
9	2	172456-77140	MOTOR, SWING	1							
10	3	172137-70490	PLUG	4							
11	3	172137-70570	PIN	2							
12	3	172137-70580	SPRING	2							
13	3	172148-73350	PLATE, VALVE	1							
14	3	172173-73510	BOLT 12X40	4							
15	3	172173-73520	COLLAR	1							
16	3	172173-73570	GEROLLER	1							
17	3	172168-73580	BALL	2							
18	3	172173-73580	DRIVE	1							
19	3	172168-73590	PLUG	2							
20	3	172173-73590	VALVE	1							
21	3	172168-73600	SPRING	2							
22	3	172173-73600	RING, BALANCING	1							
23	3	172173-73690	SNAP RING	1							
24	3	172173-73700	CIRCLIP	1							
25	3	172456-77150	HOUSING, BEARING	1							
26	3	172456-77160	FLANGE, MOUTING	1							
27	3	172456-77170	GEAR, PINION	1							
28	3	172456-77180	PISTON, HYDRAULIC	1							
29	3	172456-77190	RING	1							
30	3	172456-77200	CIRCLIP	1							
31	3	172456-77210	PLATE, FRICTION	6							
32	3	172456-77220	PLATE	7							
33	3	172456-77230	SPRING	8							
34	3	172456-77240	FRONT BEARING	1							
35	3	172456-77250	NEEDLE BEARING	1							
36	3	172141-77260	DRIVE, VALVE	1							
37	3	172456-77270	BOLT 6*65	8							
38	3	172456-77280	HOUSING, VALVE	1							
39	3	172456-77290	SEAL SET	1							
51	3	172141-77400	PLUG, BLIND	2							
52	1	26013-120402	BOLT, SPRING M12X 40	4							

Fig.64. SWIVEL JOINT



				(A)=VIO20-3B P(KR)			(D)=				
				(B)=			(E)=				
				(C)=			(F)=				
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172B02-73800	JOINT ASSY, SWIVEL	1							
2	2	172B02-73810	SHAFT ASSY, SWIVEL	1							
3	2	172B02-73840	HUB, SWIVEL	1							
4	2	172B02-73850	FLANGE, SWIVEL	1							
5	2	172B02-73860	SPACER, SWIVEL	1							
6	2	172B02-73910	SEAL KIT, SWIVEL	1							
7	3	172B02-73880	RING, BACKUP T3 55	1							
8	3	172B02-73890	SEAL, SWIVEL	7							
9	3	24315-000560	O-RING, 1BP56.0	1							
10	3	24315-000750	O-RING, 1BP75.0	1							
11	3	24325-000700	O-RING, 1BG70.0	1							
12	2	22217-100000	WASHER, SPRING 10	3							
13	2	22242-000451	RING, 45	1							
14	2	23871-020000	PLUG, R02	7							
15	2	26076-100352	BOLT, 10.910X 35	3							
16	1	26013-100402	BOLT, M10X 40	4							

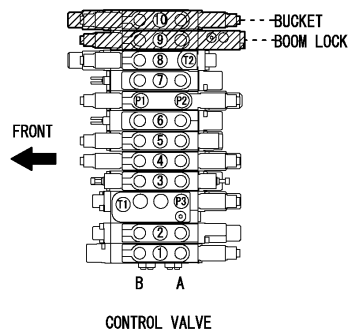
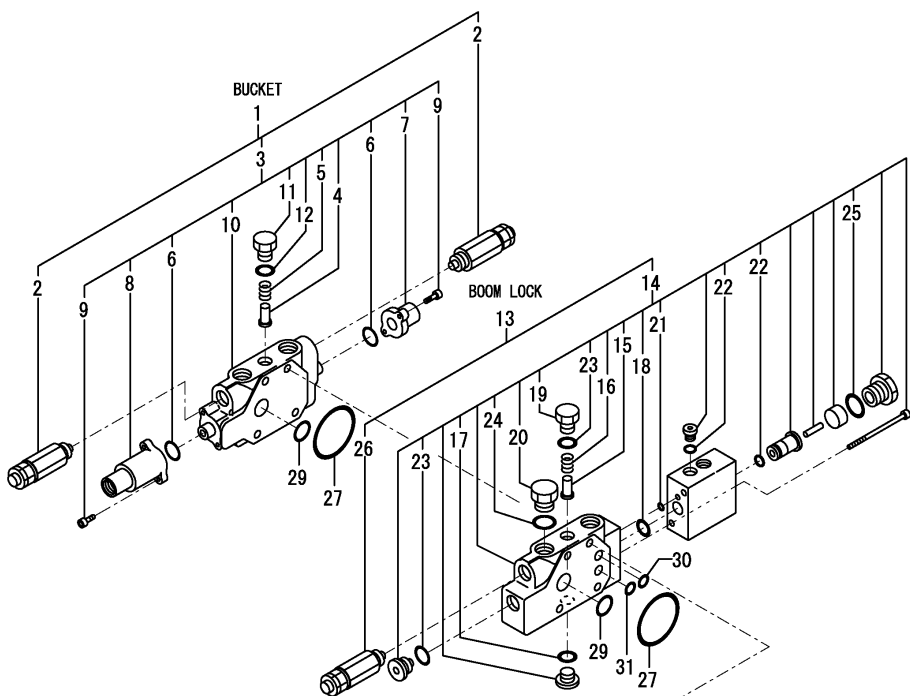
Fig.65. CONTROL VALVE(1/7)



CONTROL VALVE

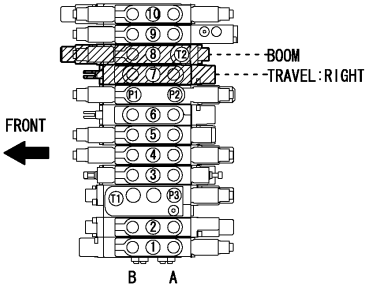
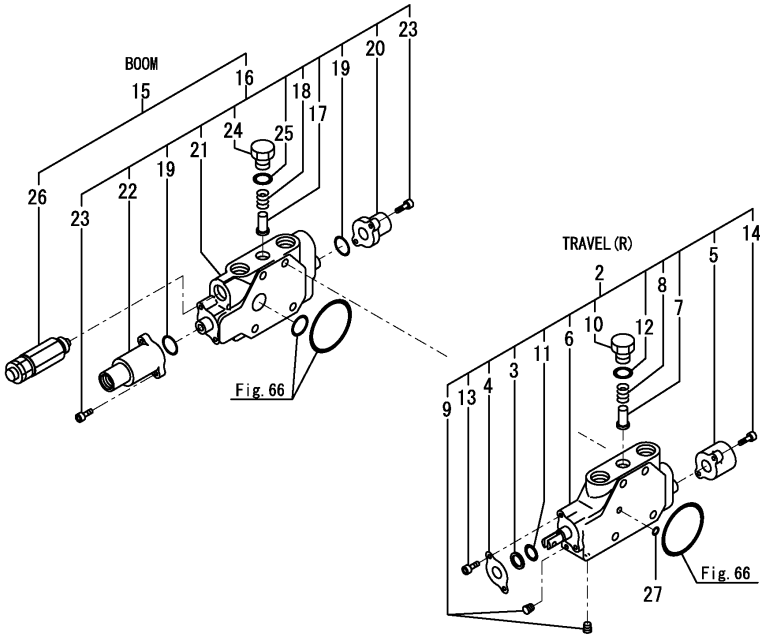
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-74102	VALVE ASSY, CONTROL	1							
2	1	26013-100162	BOLT, M10X 16	3							

Fig.66. CONTROL VALVE(2/7)



No.	Lev.	Parts No.	Description	Q'ty					
				(A)	(B)	(C)	(D)	(E)	(F)
1	2	172456-74390	SECTION, BUCKET	1					
2	3	172456-74280	VALVE ASSY, RELIEF 2	2					
3	3	172458-74610	SECTION ASSY, BUCKET	1					
4	4	172458-74150	VALVE, REVERSE	1					
5	4	172458-74160	SPRING, VALVE	1					
6	4	172458-74230	O-RING	2					
7	4	172458-74240	COVER, PILOT	1					
8	4	172458-74250	COVER, PILOT	1					
9	4	172458-74260	BOLT	4					
10	4	172458-74620	SPOOL ASSY, BUCKET	1					
11	4	172458-74630	STAY, VALVE	1					
12	4	24315-000110	O-RING, 1BP11.0	1					
13	2	172456-74430	SECTION, BOOM LOCK	1					
14	3	172456-74260	BOOM LOCK ASSY	1					
15	4	172458-74290	VALVE, REVERSE	1					
16	4	172458-74360	SPRING, VALVE	1					
17	4	172456-74410	O-RING, 1B S 16.0	1					
18	4	172456-74420	O-RING, AS 1B17.0	1					
19	4	172458-74640	STAY, VALVE	1					
20	4	172458-74650	STAY, VALVE	1					
21	4	24311-000060	O-RING, 1AP6.0	1					
22	4	24315-000080	O-RING, 1BP8.0	2					
23	4	24315-000110	O-RING, 1BP11.0	2					
24	4	24315-000140	O-RING, 1BP14.0	1					
25	4	24315-000180	O-RING, 1BP18.0	1					
26	3	172456-74440	VALVE, RELIEF	1					
27	2	172458-74720	O-RING	11					
28	2	172458-74730	BOLT	4					
29	2	24311-000180	O-RING, 1AP18.0	7					
30	2	24315-000090	O-RING, 1BP9.0	1					
31	2	24315-000100	O-RING, 1BP10.0	1					
32	2	26716-080002	NUT, M8	4					

Fig.67. CONTROL VALVE(3/7)



(A)=VIO20-3B P(KR)
(B)=
(C)=

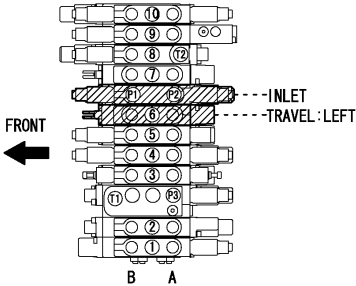
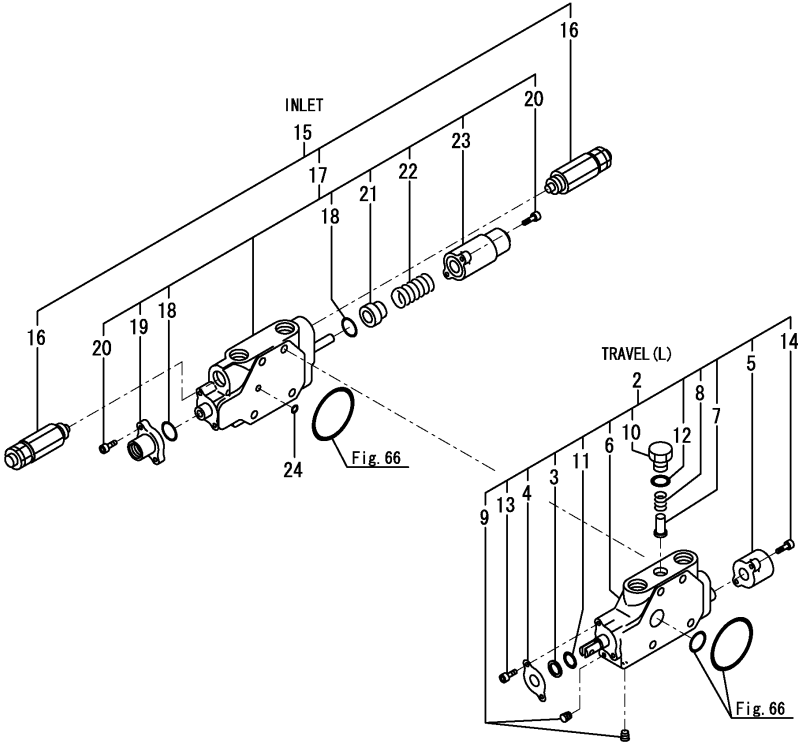
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
2	3	172456-74190	SECTION ASSY, TRAVEL	1							
3	4	172458-74130	WIPER, DUST	1							
4	4	172458-74140	RETAINER, SEAL	1							
5	4	172458-74170	CAP, SPRING	1							
6	4	172456-74230	SPOOL ASSY, TRAVEL	1							
7	4	172458-74290	VALVE, REVERSE	1							
8	4	172458-74360	SPRING, VALVE	1							
9	4	172458-74460	PLUG	2							
10	4	172458-74640	STAY, VALVE	1							
11	4	24311-000120	O-RING, 1AP12.0	1							
12	4	24315-000110	O-RING, 1BP11.0	1							
13	4	26450-050102	BOLT, M5X 10	2							
14	4	26450-050182	BOLT, M5X 18	2							
15	2	172456-74370	SECTION, BOOM	1							
16	3	172456-74240	SECTION ASSY, BOOM	1							
17	4	172458-74150	VALVE, REVERSE	1							
18	4	172458-74160	SPRING, VALVE	1							
19	4	172458-74230	O-RING	2							
20	4	172458-74240	COVER, PILOT	1							
21	4	172456-74250	SPOOL ASSY, BOOM	1							
22	4	172458-74250	COVER, PILOT	1							
23	4	172458-74260	BOLT	4							
24	4	172458-74630	STAY, VALVE	1							
25	4	24315-000110	O-RING, 1BP11.0	1							
26	3	172456-74280	VALVE ASSY, RELIEF 2	1							
27	2	24311-000060	O-RING, 1AP6.0	2							

Fig.68. CONTROL VALVE(4/7)

(A)=VIO20-3B P(KR)
(B)=
(C)=

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



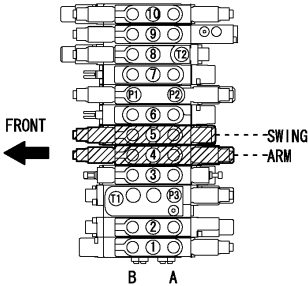
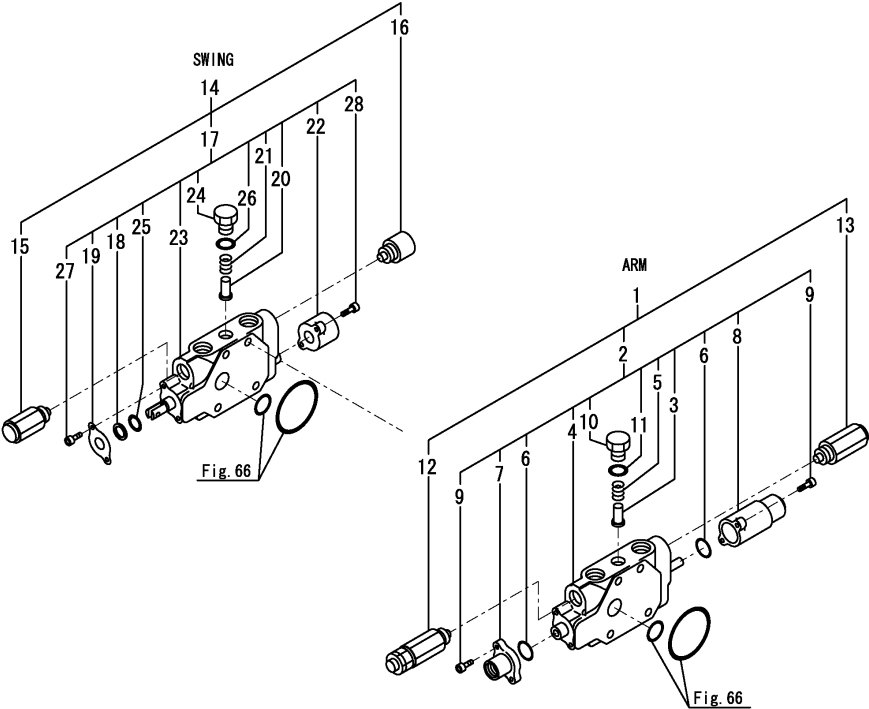
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
2	3	172456-74170	SECTION ASSY, TRAVEL	1							
3	4	172458-74130	WIPER, DUST	1							
4	4	172458-74140	RETAINER, SEAL	1							
5	4	172458-74170	CAP, SPRING	1							
6	4	172456-74180	SPOOL ASSY, TRAVEL	1							
7	4	172458-74290	VALVE, REVERSE	1							
8	4	172458-74360	SPRING, VALVE	1							
9	4	172458-74460	PLUG	2							
10	4	172458-74640	STAY, VALVE	1							
11	4	24311-000120	O-RING, 1AP12.0	1							
12	4	24315-000110	O-RING, 1BP11.0	1							
13	4	26450-050102	BOLT, M5X 10	2							
14	4	26450-050182	BOLT, M5X 18	2							
15	2	172456-74350	VALVE, CNTROL INLLET	1							
16	3	172456-74400	VALVE, RELIEF 210/20	2							
17	3	172458-74520	SECTION ASSY	1							
18	4	172458-74230	O-RING	2							
19	4	172458-74240	COVER, PILOT	1							
20	4	172458-74260	BOLT	4							
21	4	172458-74530	SEAT, SPRING	1							
22	4	172458-74540	SPRING, RETURN	1							
23	4	172458-74550	COVER, PILOT	1							
24	2	24311-000060	O-RING, 1AP6.0	2							

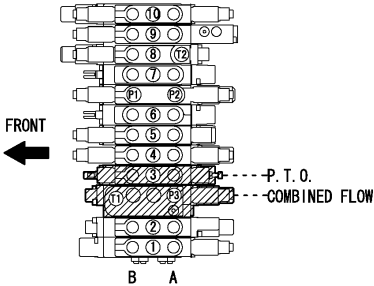
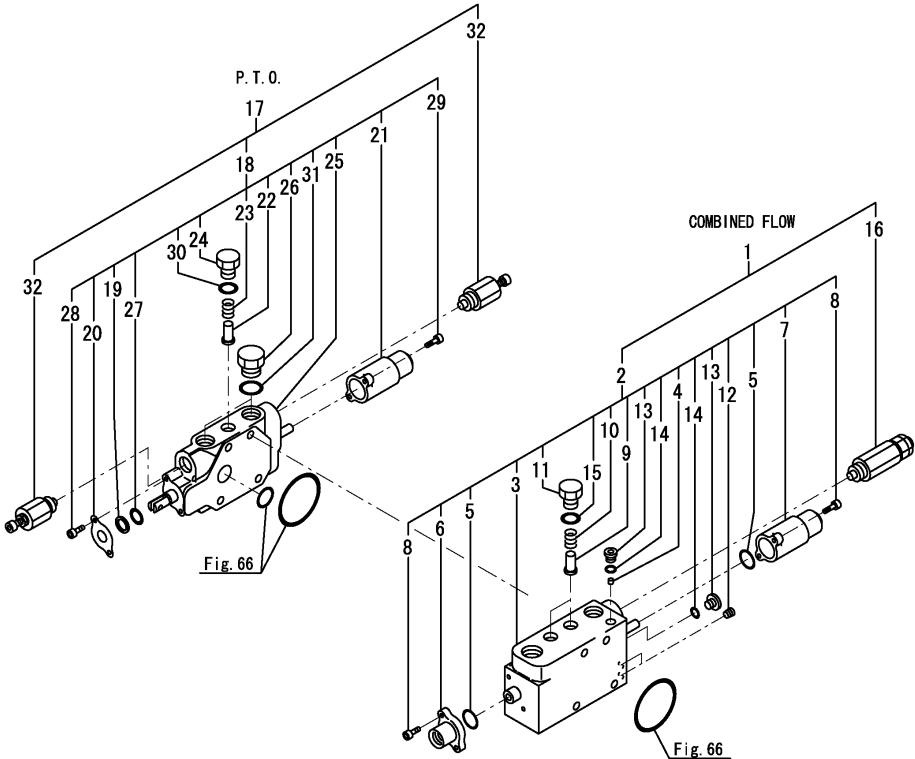
Fig.69. CONTROL VALVE(5/7)

(A)=VIO20-3B P(KR)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172456-74320	SECTION, ARM	1							
2	3	172456-74150	SECTION ASSY, ARM	1							
3	4	172458-74150	VALVE, REVERSE	1							
4	4	172456-74160	SPOOL ASSY, ARM	1							
5	4	172458-74160	SPRING, VALVE	1							
6	4	172458-74230	O-RING	2							
7	4	172458-74240	COVER, PILOT	1							
8	4	172458-74250	COVER, PILOT	1							
9	4	172458-74260	BOLT	4							
10	4	172458-74630	STAY, VALVE	1							
11	4	24315-000110	O-RING, 1BP11.0	1							
12	3	172447-74221	VALVE ASSY, RELIEF	1							
13	3	172447-74230	ANTI-CAVITATION	1							
14	2	172456-74330	SECTION, SWING	1							
15	3	172447-74230	ANTI-CAVITATION	1							
16	3	172456-74290	RELIEF VALVE PLUG	1							
17	3	172458-74420	SECTION ASSY, SWING	1							
18	4	172458-74130	WIPER, DUST	1							
19	4	172458-74140	RETAINER, SEAL	1							
20	4	172458-74150	VALVE, REVERSE	1							
21	4	172458-74160	SPRING, VALVE	1							
22	4	172458-74170	CAP, SPRING	1							
23	4	172458-74430	SPOOL ASSY, SWING	1							
24	4	172458-74630	STAY, VALVE	1							
25	4	24311-000120	O-RING, 1AP12.0	1							
26	4	24315-000110	O-RING, 1BP11.0	1							
27	4	26450-050102	BOLT, M5X 10	2							
28	4	26450-050182	BOLT, M5X 18	2							

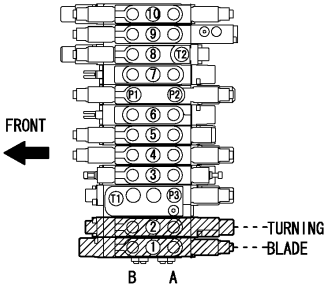
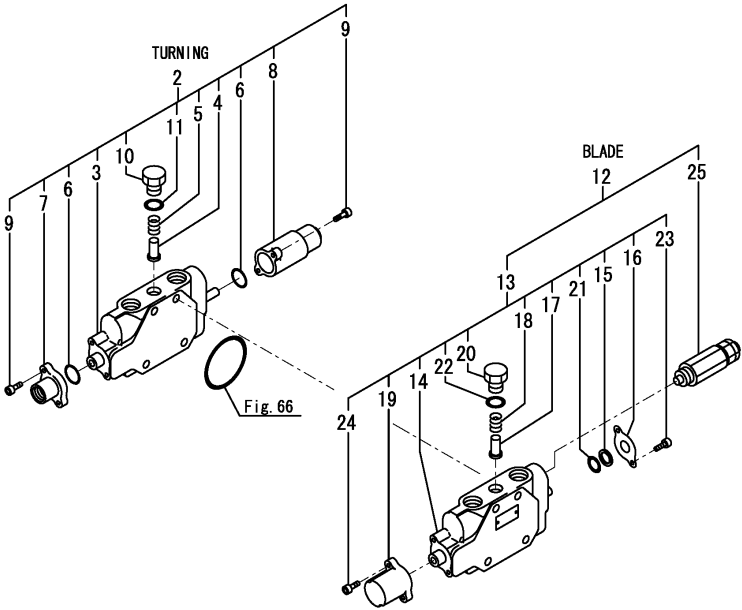




No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172456-74310	SECTION, CONFLUENE	1							
2	3	172456-74130	SECTION ASSY	1							
3	4	172456-74140	SPOOL ASSY	1							
4	4	172457-74190	LIMITTER, M6 0.9	1							
5	4	172458-74230	O-RING	2							
6	4	172458-74240	COVER, PILOT	1							
7	4	172458-74250	COVER, PILOT	1							
8	4	172458-74260	BOLT	4							
9	4	172458-74290	VALVE, REVERSE	2							
10	4	172458-74360	SPRING, VALVE	2							
11	4	172458-74640	STAY, VALVE	2							
12	4	172458-74660	PLUG, SCREW	2							
13	4	172458-74670	PLUG	2							
14	4	24315-000080	O-RING, 1BP8.0	2							
15	4	24315-000110	O-RING, 1BP11.0	2							
16	3	172456-74270	VALVE, RELIEF	1							
17	2	172456-74460	SECTION, PTO	1							
18	3	172456-74450	SECTION ASSY, PTO	1							
19	4	172458-74130	WIPER, DUST	1							
20	4	172458-74140	RETAINER, SEAL	1							
21	4	172458-74170	CAP, SPRING	1							
22	4	172490-74310	VALVE, REVERSE	1							
23	4	172490-74320	SPRING, VALVE	1							
24	4	172490-74330	STAY, VALVE	1							
25	4	172458-74390	SPOOL ASSY, PTO	1							
26	4	172458-74650	STAY, VALVE	2							
27	4	24311-000120	O-RING, 1AP12.0	1							
28	4	26450-050102	BOLT, M5X 10	2							
29	4	26450-050182	BOLT, M5X 18	2							
30	4	41851-000110	O-RING	1							
31	4	41851-000140	O-RING	2							
32	3	172458-74740	VALVE, SHUT-OFF	2							

(A)=VIO20-3B P(KR)
(B)=
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
2	3	172456-74110	SECTION ASSY	1							
3	4	172456-74120	SPOOL ASSY, SWING	1							
4	4	172458-74150	VALVE, REVERSE	1							
5	4	172458-74160	SPRING, VALVE	1							
6	4	172458-74230	O-RING	2							
7	4	172458-74240	COVER, PILOT	1							
8	4	172458-74250	COVER, PILOT	1							
9	4	172458-74260	BOLT	4							
10	4	172458-74630	STAY, VALVE	1							
11	4	24315-000110	O-RING, 1BP11.0	1							
12	2	172458-74750	SECTION, BLADE	1							
13	3	172458-74110	SECTION ASSY, BLADE	1							
14	4	172458-74120	SPOOL ASSY, BLADE	1							
15	4	172458-74130	WIPER, DUST	1							
16	4	172458-74140	RETAINER, SEAL	1							
17	4	172458-74150	VALVE, REVERSE	1							
18	4	172458-74160	SPRING, VALVE	1							
19	4	172458-74170	CAP, SPRING	1							
20	4	172458-74630	STAY, VALVE	1							
21	4	24311-000120	O-RING, 1AP12.0	1							
22	4	24315-000110	O-RING, 1BP11.0	1							
23	4	26450-050102	BOLT, M5X 10	2							
24	4	26450-050182	BOLT, M5X 18	2							
25	3	172458-74700	VALVE, RELIEF	1							

(A)=VIO20-3B P(KR)
(B)=
(C)=

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

Q'ty

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172463-74511	VALVE ASSY	1							
2	2	172441-74030	BOOT	1							
3	2	172441-74040	LEVER KIT	1							
4	2	172463-74530	CARDAN 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	172463-74590	HANDLE	1							
10	3	172463-74580	BUTTON COVER KIT	1							
11	1	172463-74521	VALVE ASSY	1							
12	2	172441-74030	BOOT	1							
13	2	172441-74040	LEVER KIT	1							
14	2	172441-74050	HANDLE	1							
15	2	172463-74530	CARDAN KIT	1							
16	2	172463-74540	PLATE, RETAINING	1							
17	2	172463-74551	PLUNGER KIT	1							
18	2	172463-74561	REGULATION KIT	4							
19	2	172463-74570	SPRING KIT	1							
20	1	22137-060000	WASHER, 6	6							
21	1	26013-060202	BOLT, SPRING M6X 20	6							

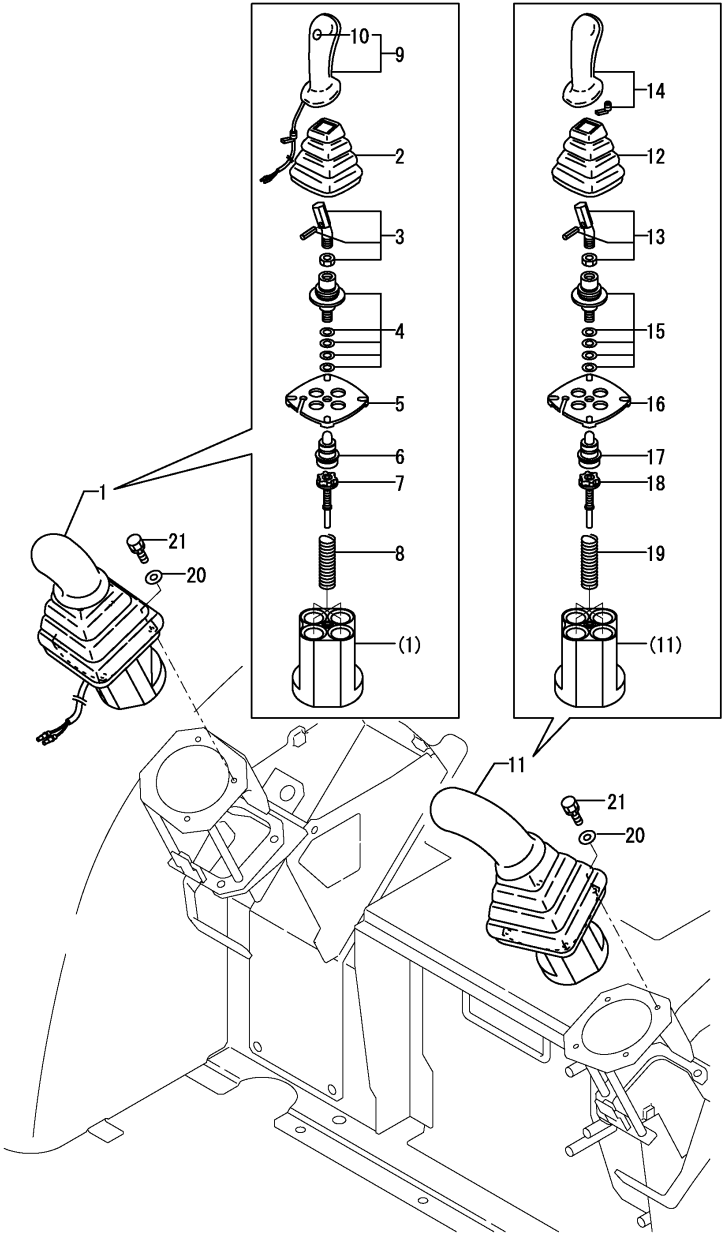
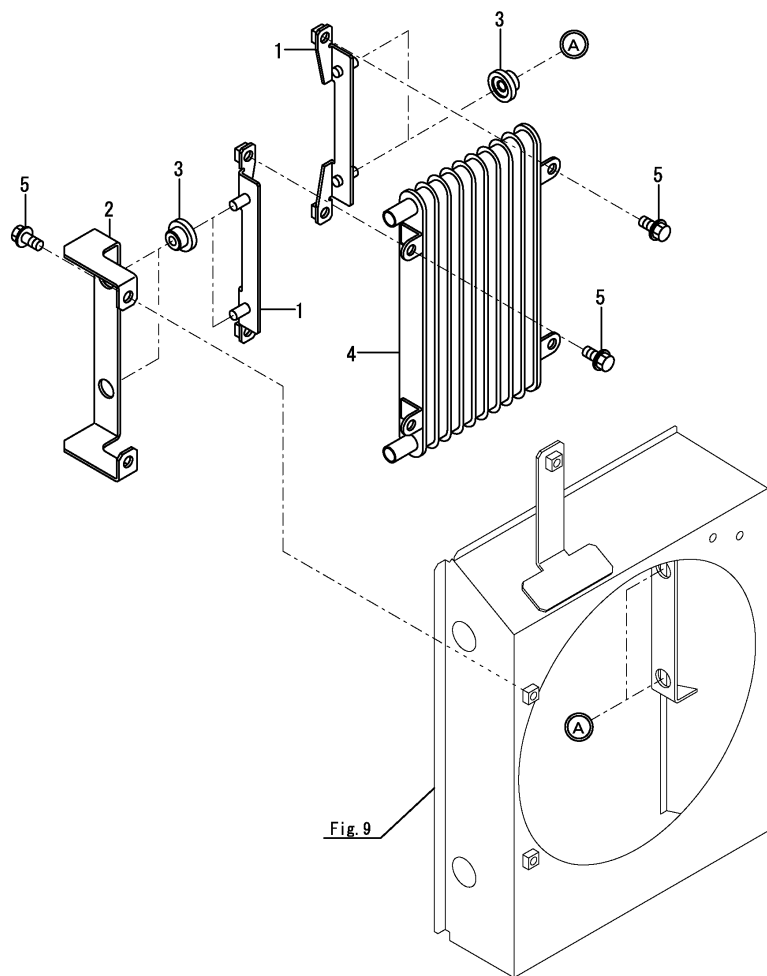


Fig.73. OIL COOLER



(A)=VIO20-3B P(KR)
(B)=
(C)=

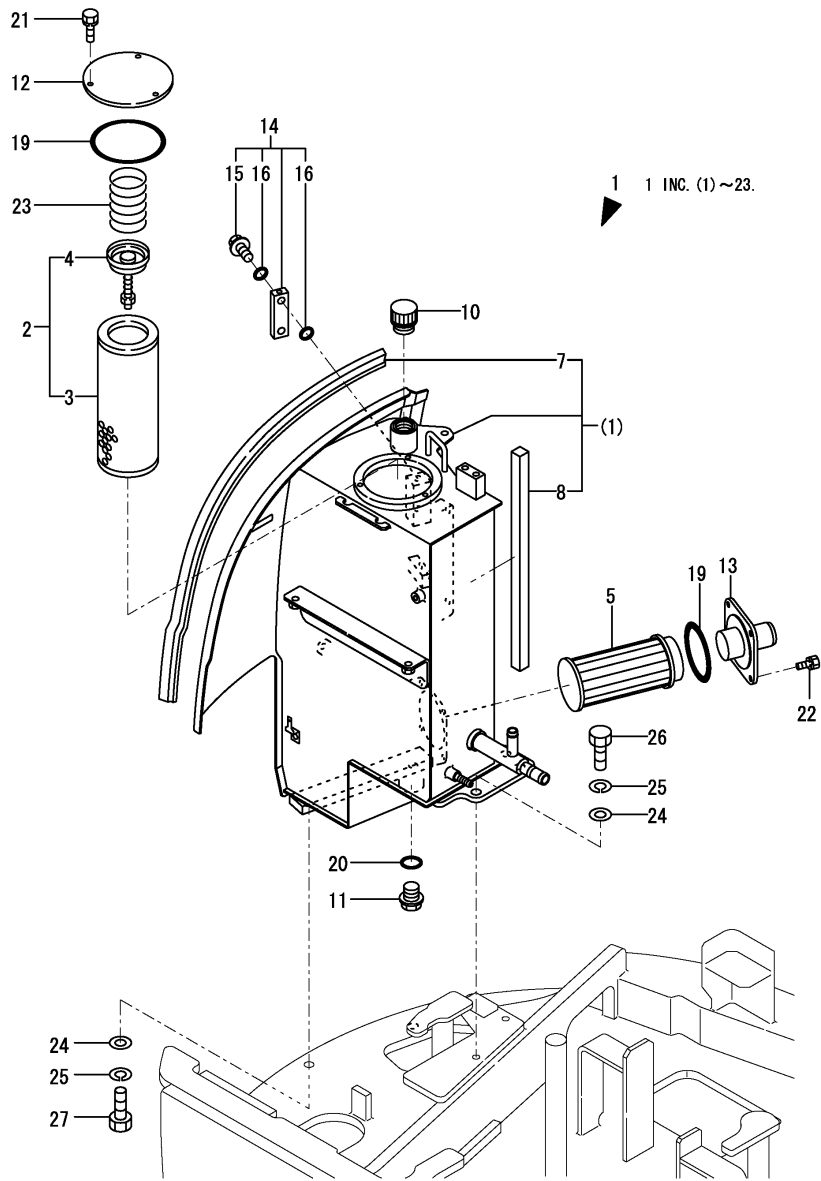
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172490-13160	BRACKET ASSY	2							
2	1	172A23-13210	BRACKET,O/C	1							
3	1	172446-13330	ABSORBER, SHOCK	4							
4	1	198448-48810	COOLER ASSY, OIL	1							
5	1	26106-100162	BOLT, M10X 16 PLATED	6							

Fig.74. HYD. OIL TANK

(A)=VIO20-3B P(KR)
(B)=
(C)=

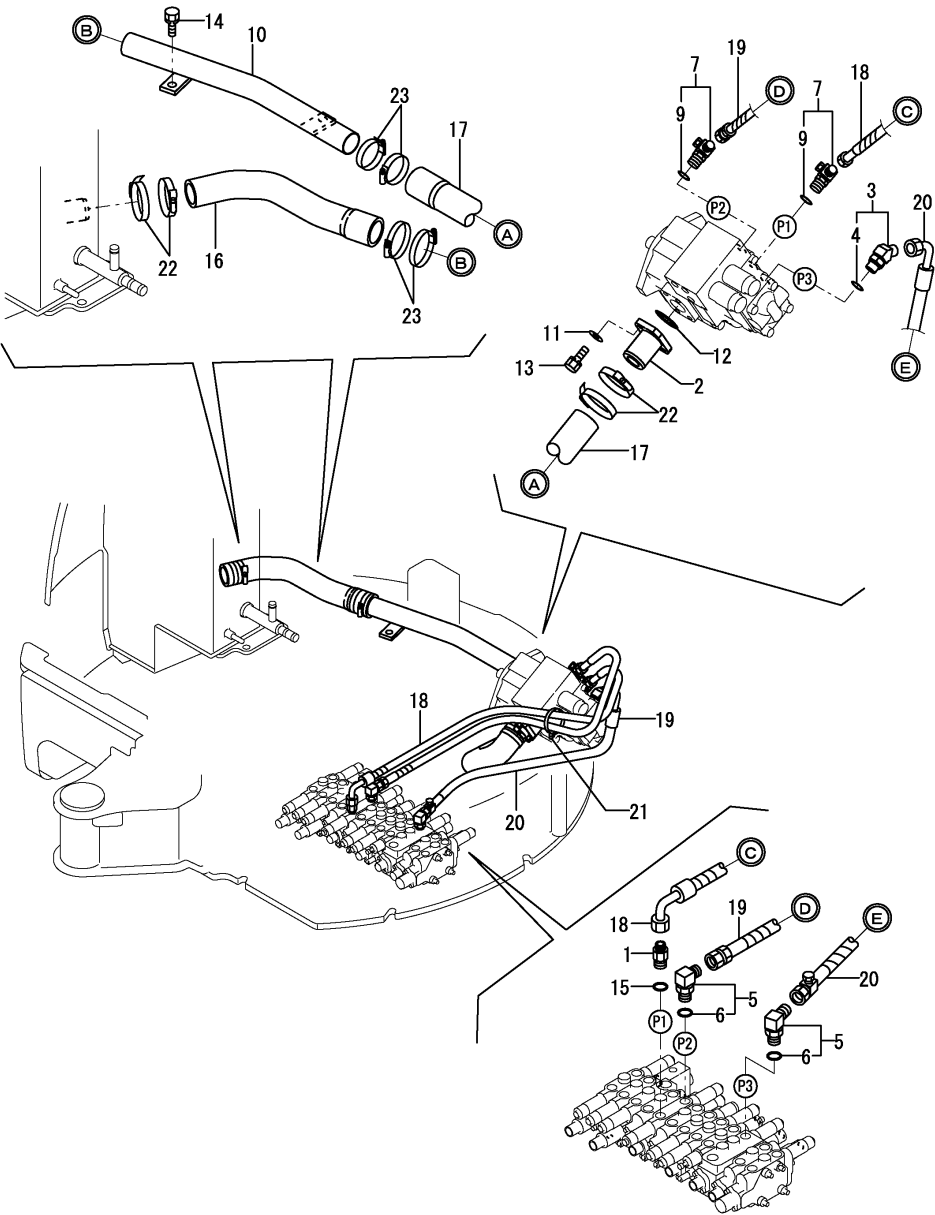
(D)=
(E)=
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	772A23-75100-Y	TANK ASSY, RESERVOIR	1							
2	2	172175-73700	FILTER ASSY, RETURN	1							
3	3	172175-73710	ELEMENT, FILTER	1							
4	3	172141-73770	VALVE ASSY, BY-PASS	1							
5	2	172146-73730	FILTER, SUCTION	1							
7	3	172168-65750	RUBBER, SEAL	1							
8	3	172458-75070	SEAL	1							
10	2	172446-75250	CAP, RESERVER	1							
11	2	172455-75330	PLUG, DRAIN	1							
12	2	172460-75410	COVER, TANK	1							
13	2	172A46-75500	FLANGE, SUCTION	1							
14	2	172447-75600	GAUGE ASSY	1							
15	3	172455-75290	BOLT	2							
16	3	172455-75300	O-RING	4							
19	2	24321-001050	O-RING, 1AG105.0	2							
20	2	24341-000300	O-RING, 1AS30.0	1							
21	2	26014-080202	BOLT, M8X 20	3							
22	2	26014-080252	BOLT, M8X 25	4							
23	2	933152-02710	SPRING, CLUTCH	1							
24	1	22137-140000	WASHER, 14	4							
25	1	22217-140000	WASHER, SPRING 14	4							
26	1	26116-140302	BOLT, M14X 30 PLATED	2							
27	1	26116-140352	BOLT, M14X 35 PLATED	2							

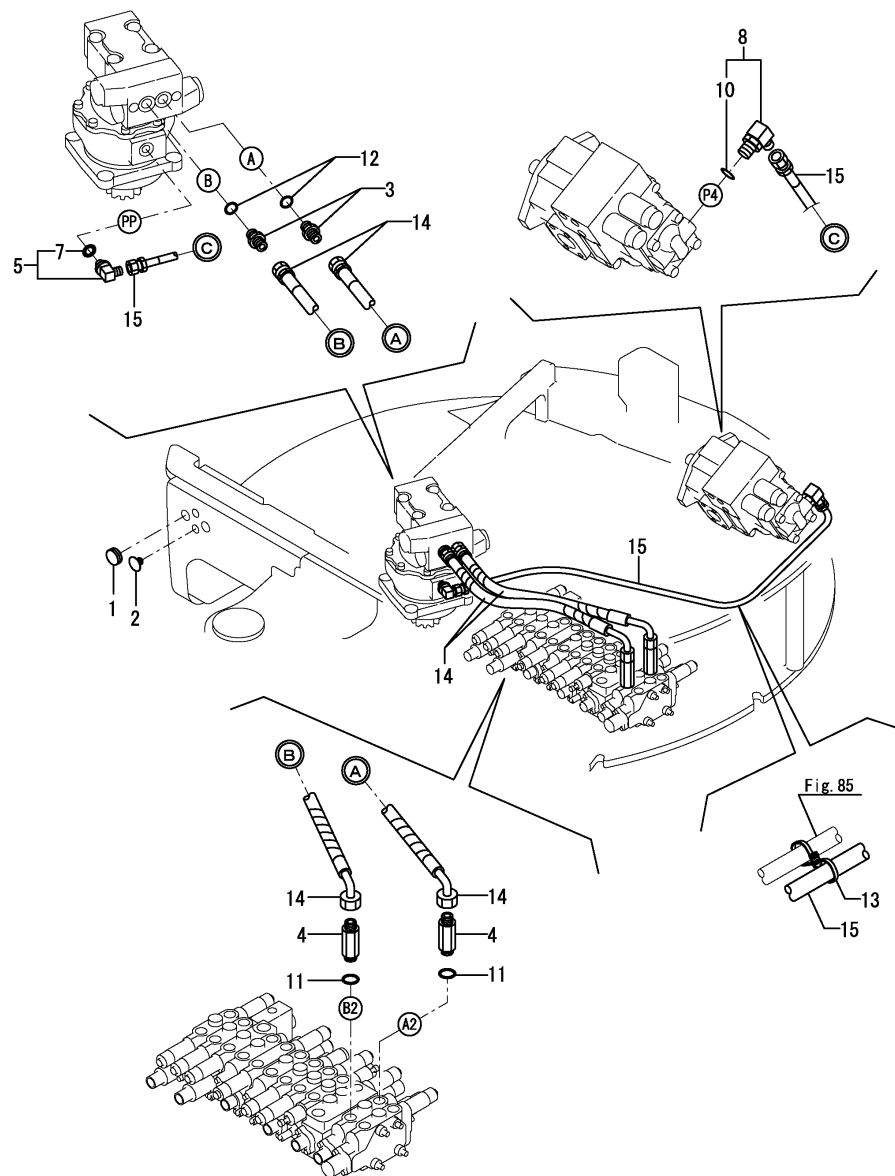
(A)=VIO20-3B P(KR)
(B)=
(C)=

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



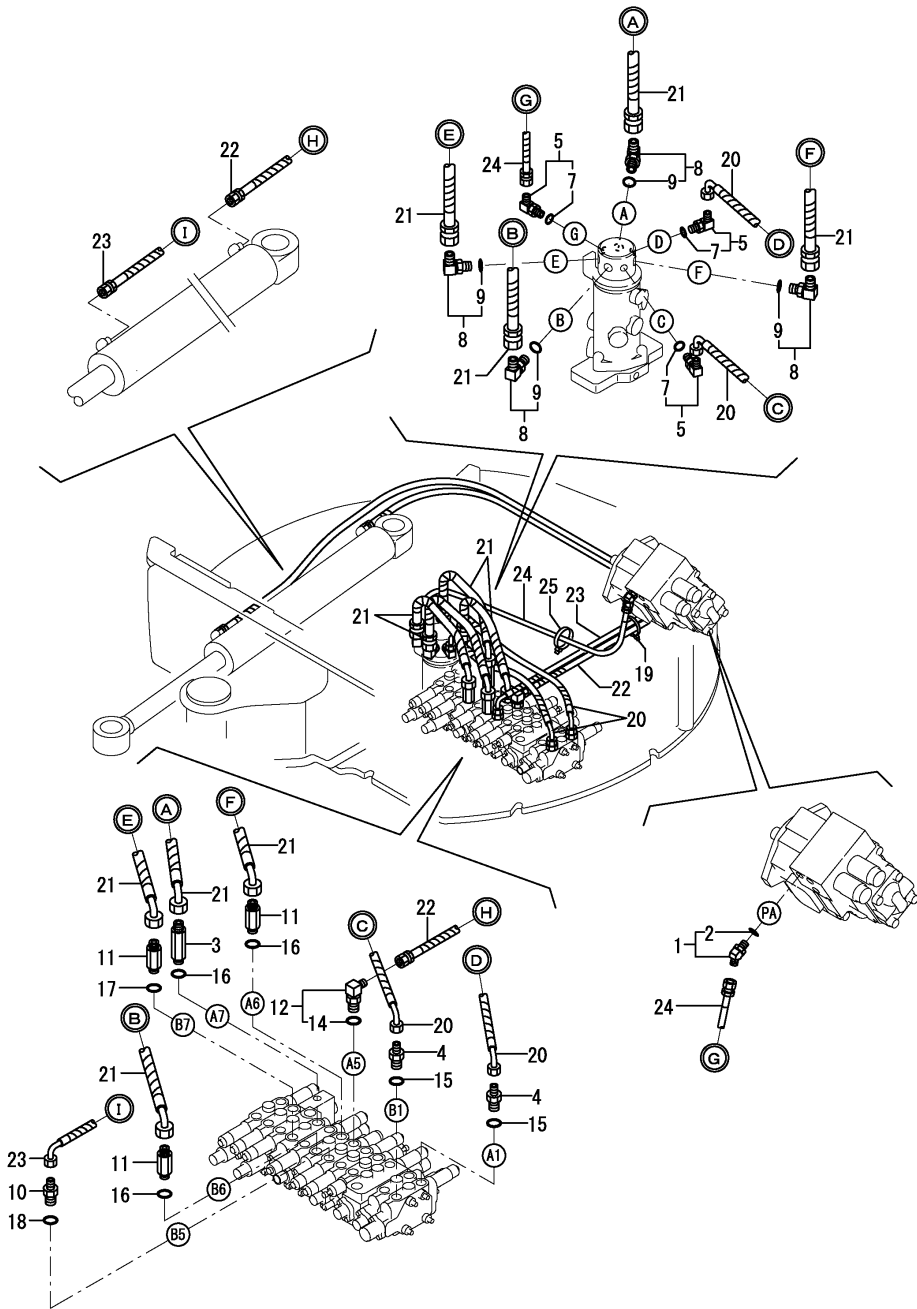
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172730-75141	ADAPTER	1							
2	1	172422-76100	FLANGE	1							
3	1	172644-76161	ELBOW, ADJUST	1							
4	2	24315-000140	O-RING, 1BP14.0	1							
5	1	172142-76181	JOINT ASSY	2							
6	2	24315-000140	O-RING, 1BP14.0	2							
7	1	172A23-76301	ELBOW ASSY	2							
9	2	41851-000180	O-RING	2							
10	1	172487-76410	TUBE ASSY, SUCTION	1							
11	1	22117-100000	WASHER, 10	4							
12	1	24321-000400	O-RING, 1AG40.0	1							
13	1	26013-100252	BOLT, M10X 25	4							
14	1	26014-100252	BOLT, M10X 25	2							
15	1	41851-000140	O-RING	1							
16	1	172A23-78080	HOSE	1							
17	1	172A23-78090	HOSE 42.5 55.2	1							
18	1	172A23-78112	HOSE H206BC077S	1							
19	1	172A23-78121	HOSE H206BB074S	1							
20	1	172A23-78131	HOSE H206CZ066S	1							
21	1	172122-79930	CLAMP, HOSE	1							
22	1	23001-060000	CLAMP, HOSE 60	4							
23	1	23001-060000	CLAMP, HOSE 60	4							

Fig.76. PUMP & CONTROL VALVE - TURNING MOTOR



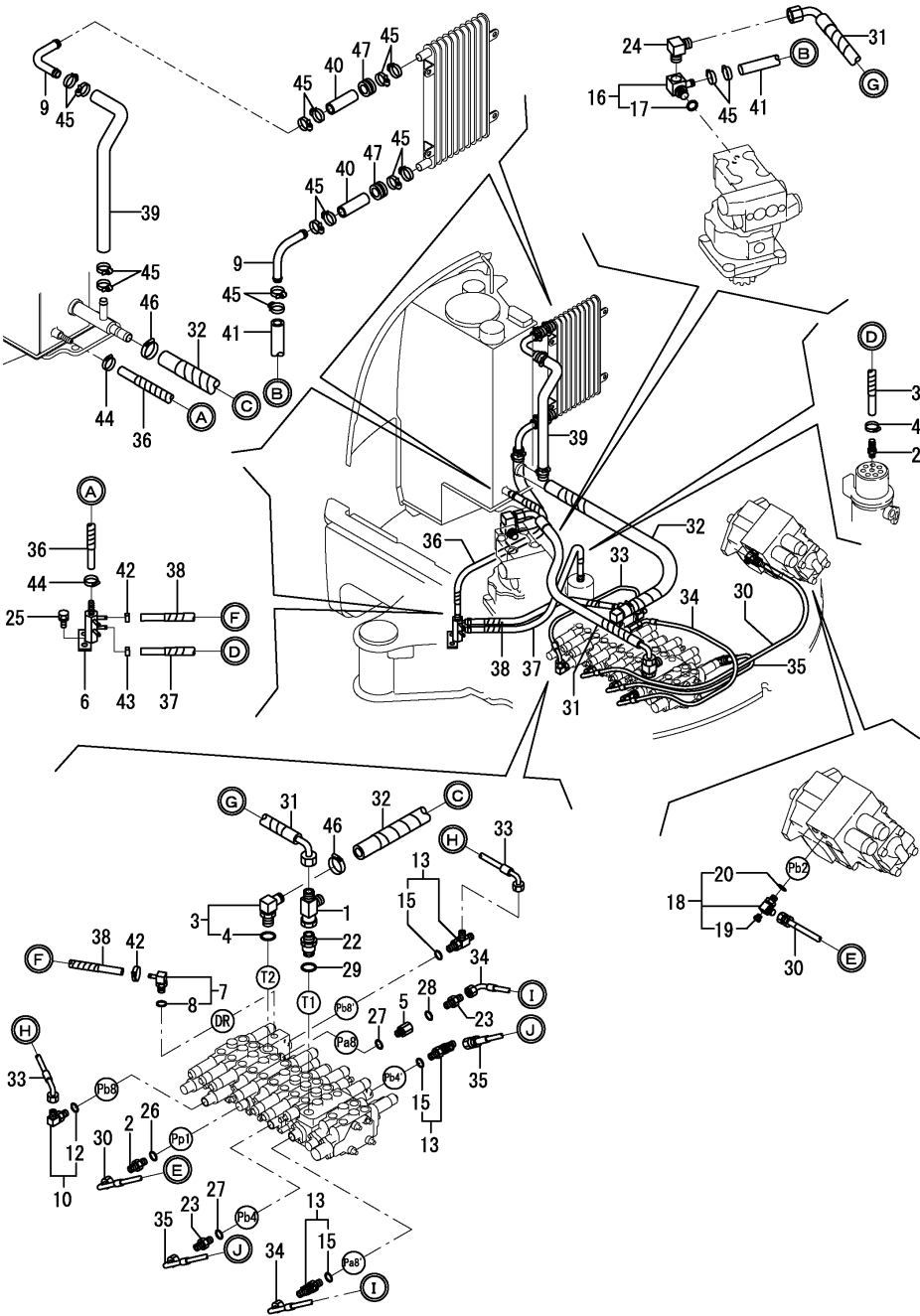
				(A)=VIO20-3B P(KR)			(D)=					
				(B)=			(E)=					
				(C)=			(F)=					
No.	Lev.	Parts No.	Description	Q'ty							I	R
				(A)	(B)	(C)	(D)	(E)	(F)			
1	1	172312-17260	GROMMET	2								
2	1	172176-68210	CLIP, TREE	2								
3	1	172730-75141	ADAPTER	2								
4	1	172162-76131	ADAPTER	2								
5	1	172141-76181	CONNECTOR ASSY, 02FF	1								
7	2	41851-000110	O-RING	1								
8	1	172141-76920	CONNECTOR ASSY	1								
10	2	24315-000140	O-RING, 1BP14.0	1								
11	1	41851-000140	O-RING	2								
12	1	41851-000140	O-RING	2								
13	1	172137-16560	BAND	1								
14	1	172422-78210	HOSE	2								
15	1	172423-78940	HOSE	1								

Fig.77. CONTROL VALVE - SWIVEL JOINT & SWING CYLINDER



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172173-76102	CONNECTOR ASSY	1							
2	2	41851-000110	O-RING	1							
3	1	172162-76131	ADAPTER	1							
4	1	172422-76130	CONNECTOR, PF1/4-3/8	2							
5	1	172141-76181	CONNECTOR ASSY, 02FF	3							
7	2	41851-000110	O-RING	3							
8	1	172142-76181	JOINT ASSY	4							
9	2	24315-000140	O-RING, 1BP14.0	4							
10	1	172147-76260	CONNECTOR, 3/8X1/4	1							
11	1	172116-76381	ADAPTER, 64	3							
12	1	172141-76920	CONNECTOR ASSY	1							
14	2	24315-000140	O-RING, 1BP14.0	1							
15	1	41851-000140	O-RING	2							
16	1	41851-000140	O-RING	3							
17	1	41851-000140	O-RING	1							
18	1	41851-000140	O-RING	1							
19	1	172126-11510	BAND	1							
20	1	172456-78170	HOSE	2							
21	1	172422-78200	HOSE	4							
22	1	172456-78200	HOSE	1							
23	1	172456-78210	HOSE	1							
24	1	172A45-78600	HOSE	1							
25	1	172122-79930	CLAMP, HOSE	2							

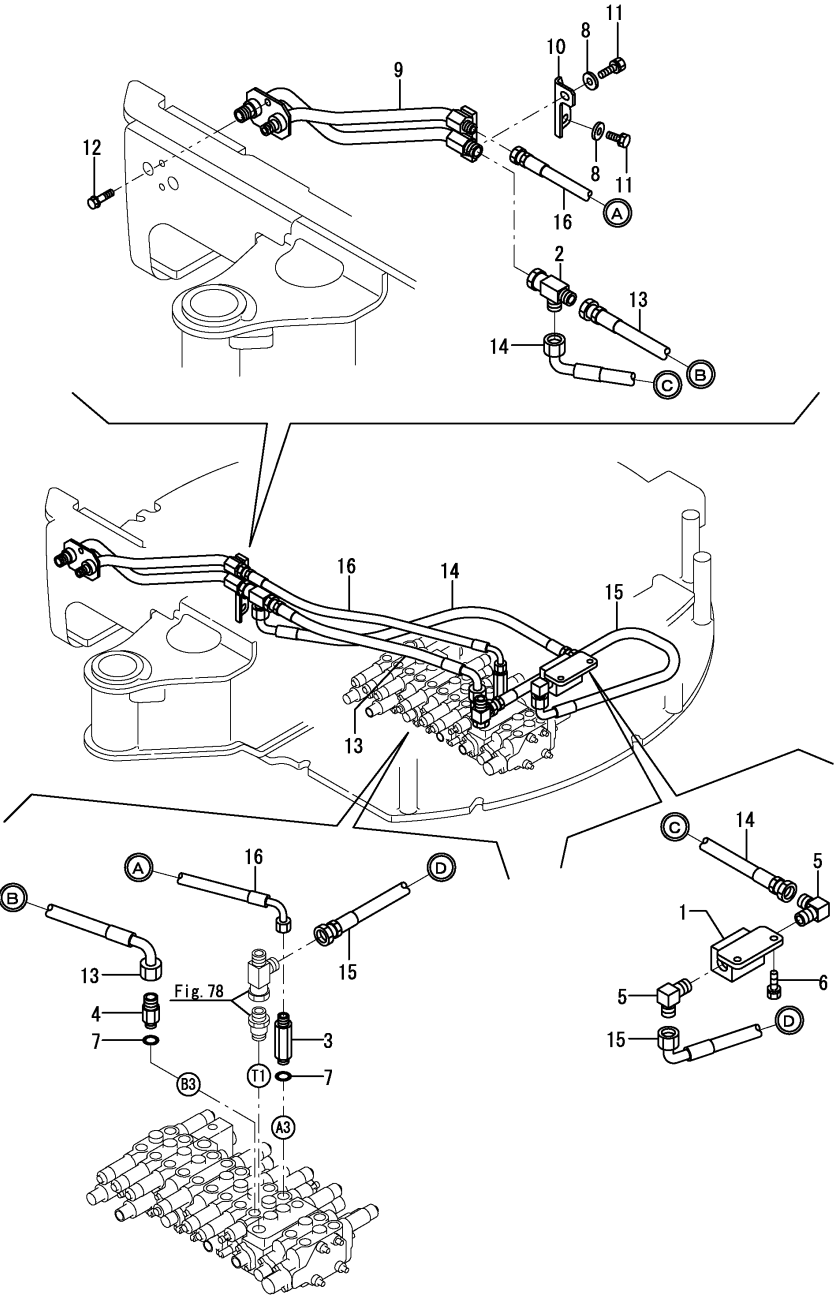
Fig.78. RETURN



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172469-76110	CONNECTOR, 3X1/2	1							
2	1	172123-76121	ADAPTER	1							
3	1	172164-76131	ELBOW	1							
4	2	24315-000180	O-RING, 1BP18.0	1							
5	1	172422-76140	CONNECTOR	1							
6	1	172444-76150	JOINT	1							
7	1	172458-76150	NIPPLE, ELBOW	1							
8	2	24315-000110	O-RING, 1BP11.0	1							
9	1	172490-76150	PIPE	2							
10	1	172141-76181	CONNECTOR ASSY, 02FF	1							
12	2	41851-000110	O-RING	1							
13	1	172162-76181	JOINT ASSY	3							
15	2	41851-000110	O-RING	3							
16	1	172A23-76200	ELBOW	1							
17	2	41851-000140	O-RING	1							
18	1	172A23-76210	ELBOW	1							
19	2	23871-010000	PLUG, R01	1							
20	2	41851-000110	O-RING	1							
21	1	172141-76220	NIPPLE, 02	1							
22	1	172147-76271	CONNECTOR, 1/2X1/2	1							
23	1	172164-76330	JOINT, PF1/4-0.7	2							
24	1	23393-040000	JOINT, 90RGI-1/2	1							
25	1	26013-100202	BOLT, M10X 20	2							
26	1	41851-000110	O-RING	1							
27	1	41851-000110	O-RING	2							
28	1	41851-000110	O-RING	1							
29	1	41851-000180	O-RING	1							
30	1	172456-78161	HOSE F403BC091S	1							
31	1	172456-78260	HOSE	1							
32	1	172456-78270	HOSE	1							
33	1	172458-78290	HOSE, F403CC042	1							
34	1	172458-78300	HOSE, F403CC074	1							
35	1	172458-78310	HOSE, F403BC053	1							
36	1	172165-78412	HOSE	1							
37	1	172458-78530	HOSE, G604YY054S	1							
38	1	172458-78540	HOSE, G604YY045S	1							
39	1	172A23-78840	HOSE	1							
40	1	172A23-78850	HOSE	2							
41	1	172A23-78860	HOSE	1							
42	1	23000-013000	CLAMP, 13	2							
43	1	23000-013000	CLAMP, 13	2							
44	1	23001-016000	CLAMP, HOSE 16	2							
45	1	23001-022000	CLAMP, HOSE 22	16							
46	1	23001-035000	CLAMP, HOSE 35	2							
47	1	29311-252000	GROMET, 25.0X2	2							

(A)=VIO20-3B P(KR)
(B)=
(C)=

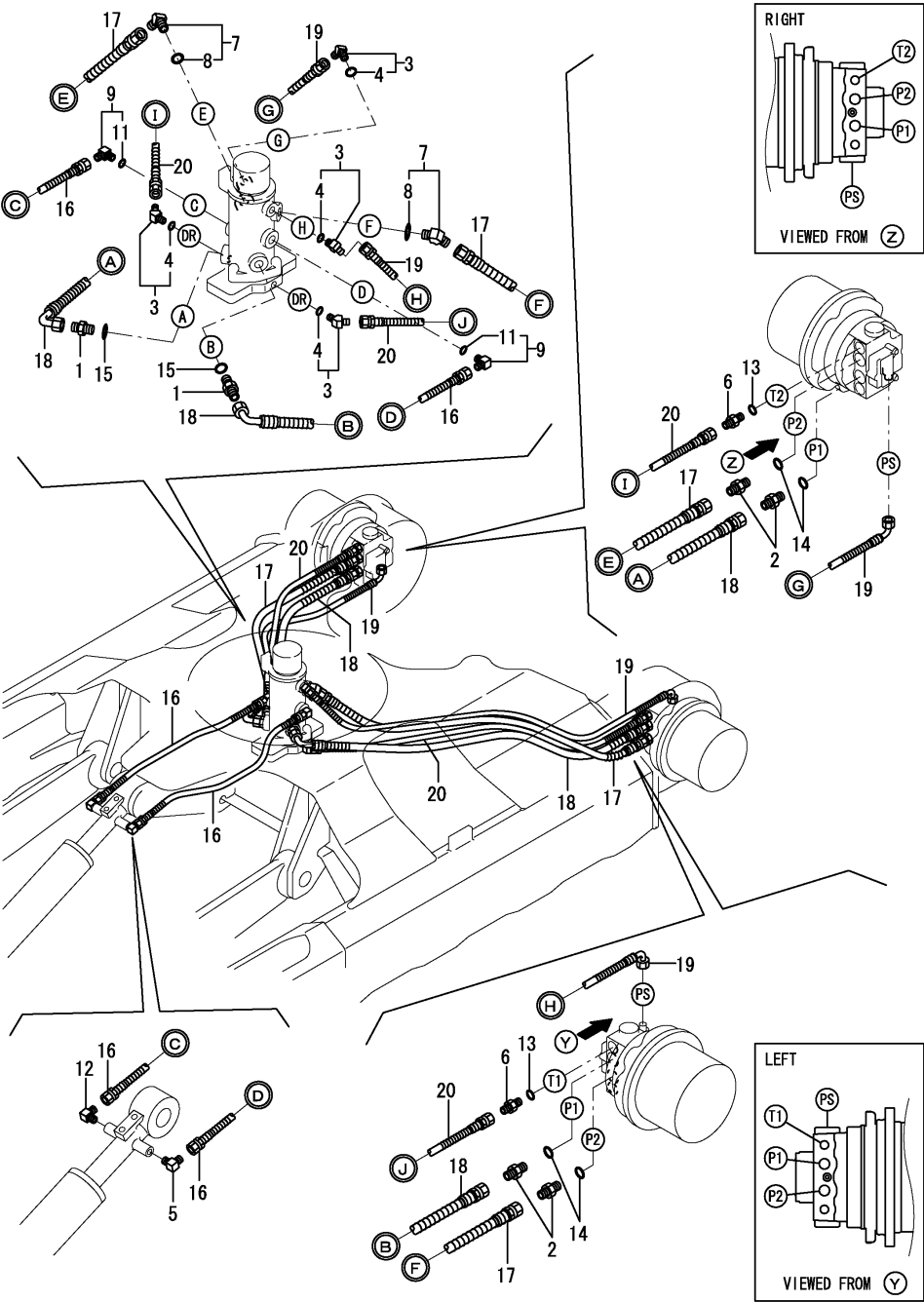
(D)=
(E)=
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172183-74822	VALVE ASSY, STOP	1							
2	1	172469-76110	CONNECTOR, 3X1/2	1							
3	1	172162-76131	ADAPTER	1							
4	1	172422-76180	CONNECTOR, PF3/8X1/2	1							
5	1	23393-040000	JOINT, 90RGI-1/2	2							
6	1	26013-100252	BOLT, M10X 25	2							
7	1	41851-000140	O-RING	2							
8	1	172110-36010	COLLAR	2							
9	1	172456-76801	TUBE ASSY, F-END	1							
10	1	172456-76880	PLATE, MOUNT	1							
11	1	26013-100252	BOLT, M10X 25	2							
12	1	26013-100352	BOLT, M10X 35	2							
13	1	172469-78550	HOSE	1							
14	1	172469-78560	HOSE	1							
15	1	172469-78570	HOSE	1							
16	1	172456-78970	HOSE	1							

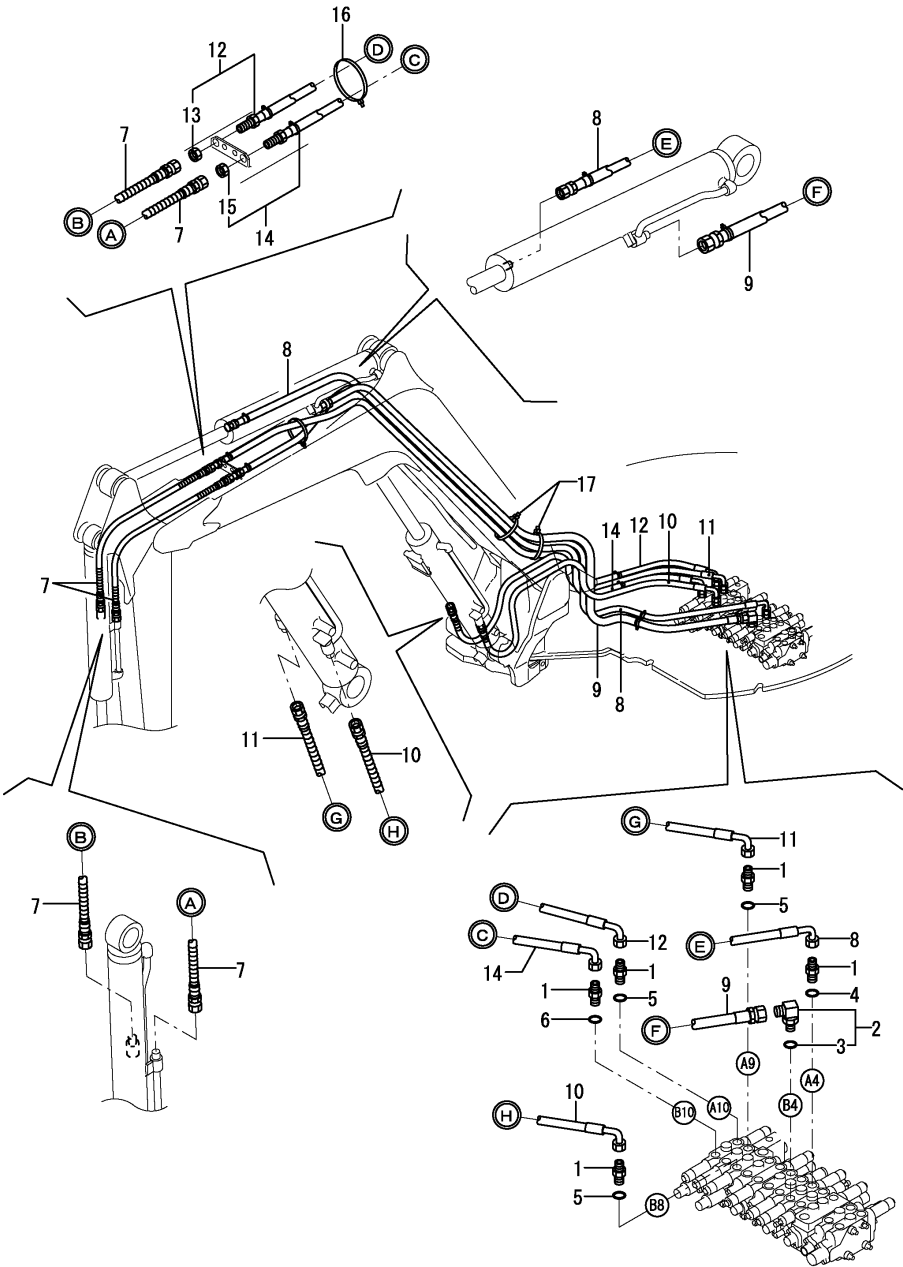
(A)=VIO20-3B P(KR)
(B)=
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172730-75141	ADAPTER	2							
2	1	172730-75141	ADAPTER	4							
3	1	172173-76102	CONNECTOR ASSY	4							
4	2	41851-000110	O-RING	4							
5	1	172421-76100	CONNECTOR	1							
6	1	172123-76121	ADAPTER	2							
7	1	172644-76161	ELBOW, ADJUST	2							
8	2	24315-000140	O-RING, 1BP14.0	2							
9	1	172141-76181	CONNECTOR ASSY, 02FF	2							
11	2	41851-000110	O-RING	2							
12	1	23393-020000	JOINT, 90RG1-1/4	1							
13	1	41851-000110	O-RING	2							
14	1	41851-000140	O-RING	4							
15	1	41851-000140	O-RING	2							
16	1	172421-78120	HOSE	2							
17	1	172421-78131	HOSE	2							
18	1	172456-78291	HOSE	2							
19	1	172456-78301	HOSE	2							
20	1	172456-78312	HOSE	2							

Fig.81. BOOM

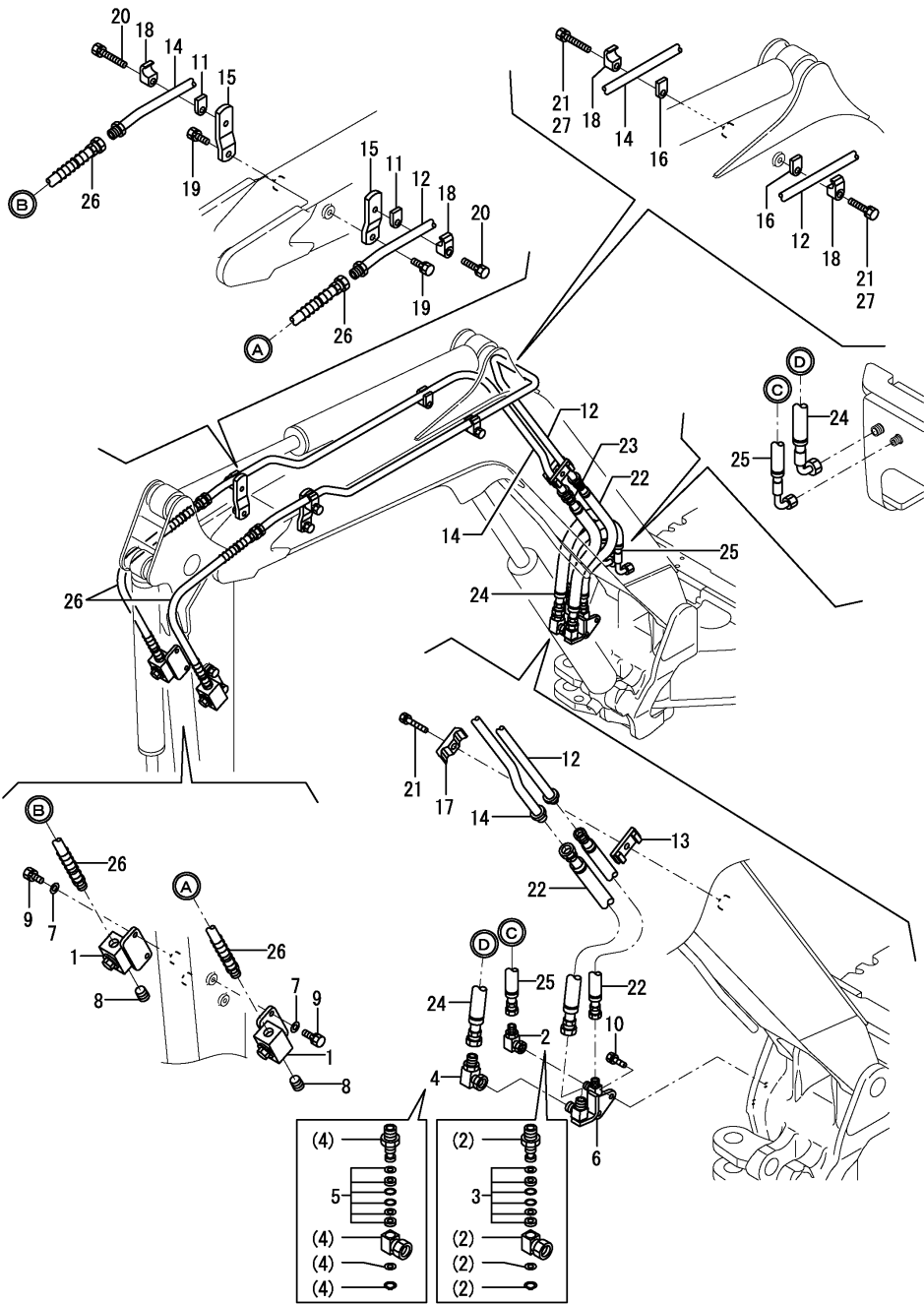


(A)=VIO20-3B P(KR)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172730-75141	ADAPTER	5							
2	1	172142-76181	JOINT ASSY	1							
3	2	24315-000140	O-RING, 1BP14.0	1							
4	1	41851-000140	O-RING	1							
5	1	41851-000140	O-RING	3							
6	1	41851-000140	O-RING	1							
7	1	172957-78150	HOSE	2							
8	1	172456-78180	HOSE	1							
9	1	172456-78191	HOSE H206BB232K	1							
10	1	172456-78220	HOSE	1							
11	1	172456-78230	HOSE	1							
12	1	172456-78241	HOSE	1							
13	2	172455-79770	NUT, LOCK	1							
14	1	172456-78251	HOSE	1							
15	2	172455-79770	NUT, LOCK	1							
16	1	172122-79930	CLAMP, HOSE	1							
17	1	172122-79930	CLAMP, HOSE	2							

Fig.82. P.T.O.(ARM END)



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172183-74822-Y	VALVE, STOP	2							
2	1	172456-76250	JOINT, SWIVEL 3/8	1							
3	2	172456-76260	SEAL SET, 3/8	1							
4	1	172142-76270	JOINT, SWIVEL 1/2	1							
5	2	172142-77040	SEAL SET	1							
6	1	172456-76700	JOINT ASSY, PTO	1							
7	1	22117-100000	WASHER, 10	4							
8	1	23871-040000	PLUG, R04	2							
9	1	26013-100252	BOLT, SPRING M10X 25	4							
10	1	26013-100252	BOLT, SPRING M10X 25	2							
11	1	172183-76250-Y	PLATE, SPACER	2							
12	1	172456-76601-Y	TUBE ASSY,PTO L	1							
13	1	172175-76640-Y	SPACER ASSY	1							
14	1	172456-76651-Y	TUBE ASSY,PTO R	1							
15	1	172458-76680-Y	STAY	2							
16	1	172187-76690-Y	PLATE	2							
17	1	172175-76750-Y	CLAMP, PLUMBING 1/2	1							
18	1	172142-76950-Y	CLAMP, 1/2	4							
19	1	26013-120302	BOLT, SPRING M12X 30	2							
20	1	26013-120502	BOLT, SPRING M12X 50	2							
20-1	1	26014-120552	BOLT, M12X 55	2							N
(A=*2016.05.)											
21	1	26013-120602	BOLT, SPRING M12X 60	3							
21-1	1	26013-120602	BOLT, M12X 60	1							K
(A=*2016.05.)											
22	1	172469-78510	HOSE	1							
23	1	172469-78520	HOSE	1							
24	1	172469-78530	HOSE	1							
25	1	172469-78540	HOSE	1							
26	1	172456-78910	HOSE	2							
27	1	26014-120602	BOLT, M12X 60	2							W
(A=*2016.05.)											

(A)=VIO20-3B P(KR)
(B)=
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(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172958-76130	ELBOW	2							
2	2	24315-000110	O-RING, 1BP11.0	2							
3	1	172958-76130	ELBOW	1							
4	2	24315-000110	O-RING, 1BP11.0	1							
5	1	172141-76181	CONNECTOR ASSY, 02FF	1							
7	2	41851-000110	O-RING	1							
8	1	172956-76100-Y	TUBE, HITCH	1							
9	1	172110-76170-5	PLATE	1							
10	1	172137-76580	COLLAR	1							
11	1	172956-81901-Y	COVER, ARM	1							
12	1	26013-080162	BOLT, M8X 16	2							
13	1	26013-080162	BOLT, M8X 16	1							
14	1	26013-080252	BOLT, M8X 25	1							
15	1	172956-78100	HOSE	1							
16	1	172956-78110	HOSE	1							
17	1	172957-78111	HOSE	2							
18	1	172956-78120	HOSE	1							
19	1	172958-78200	HOSE	1							
20	1	172122-79930	CLAMP, HOSE	2							

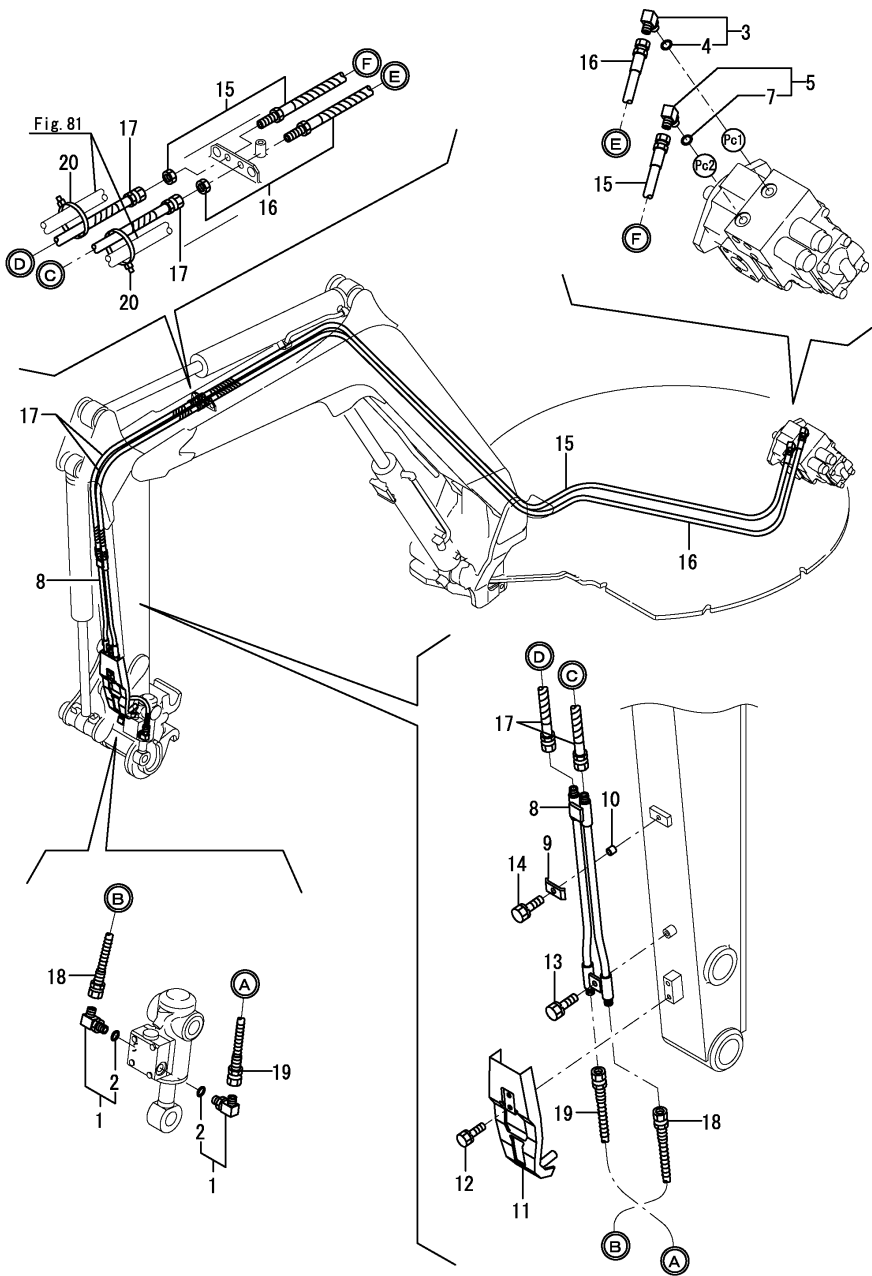
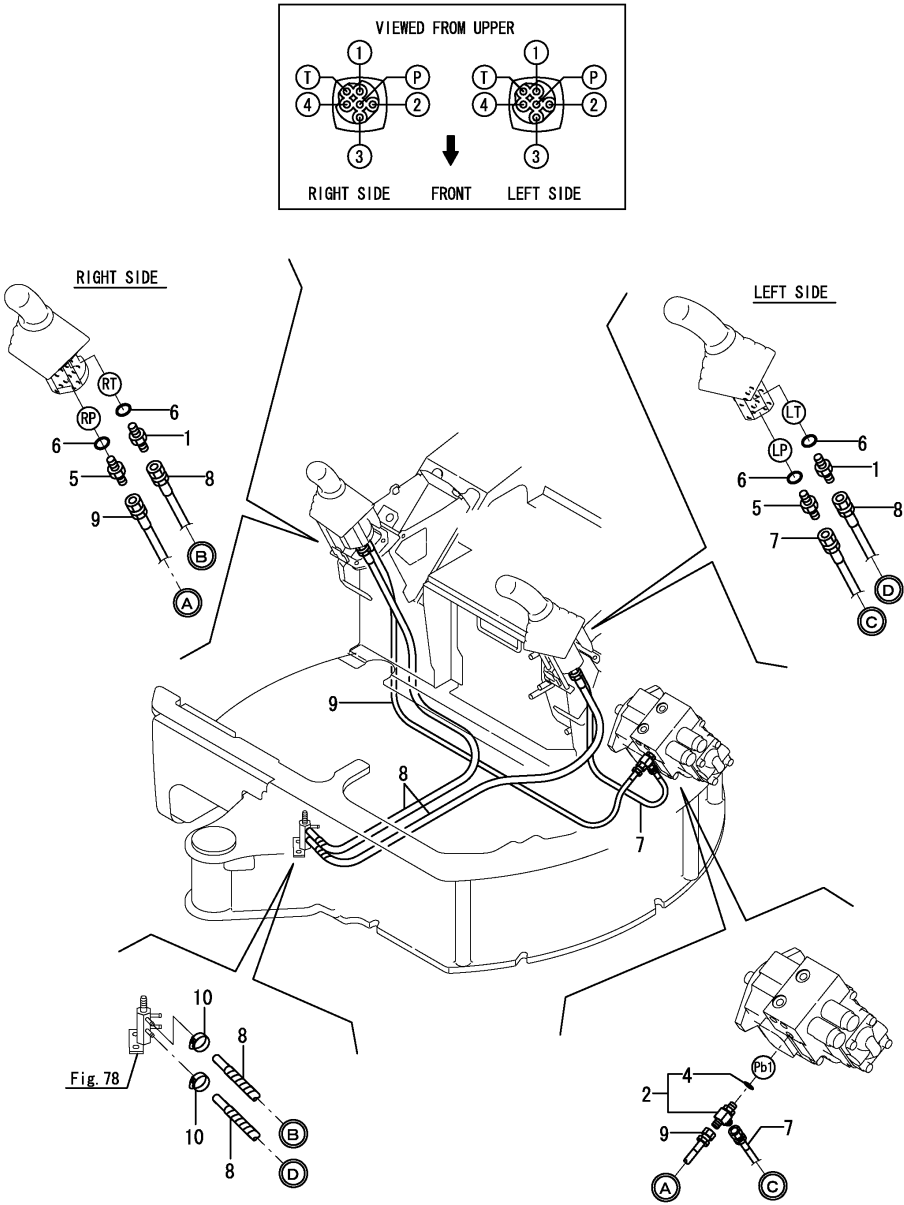
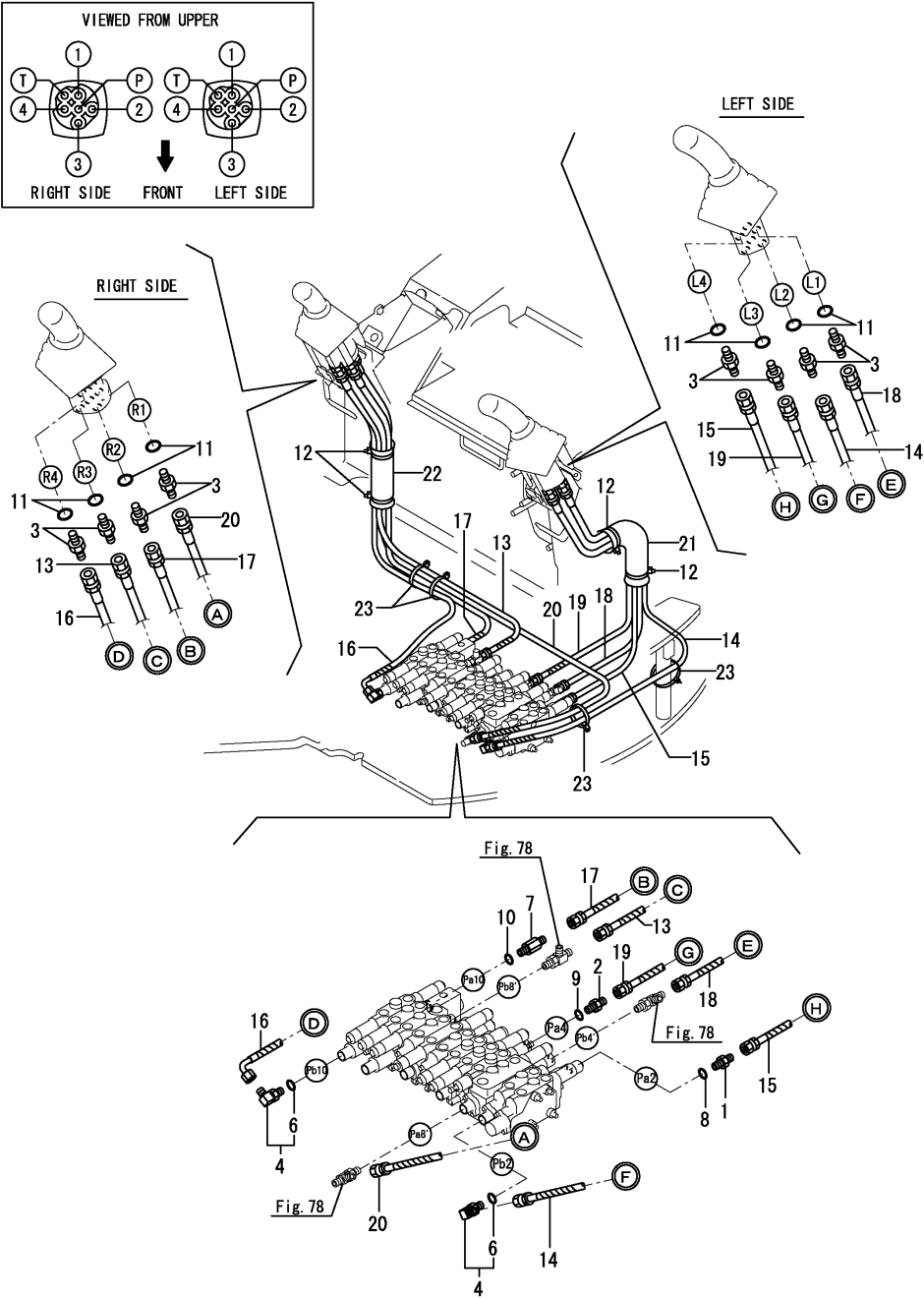


Fig.84. CONTROL PIPING(PUMP - REMOTE CONTROL VALVE - RETURN)



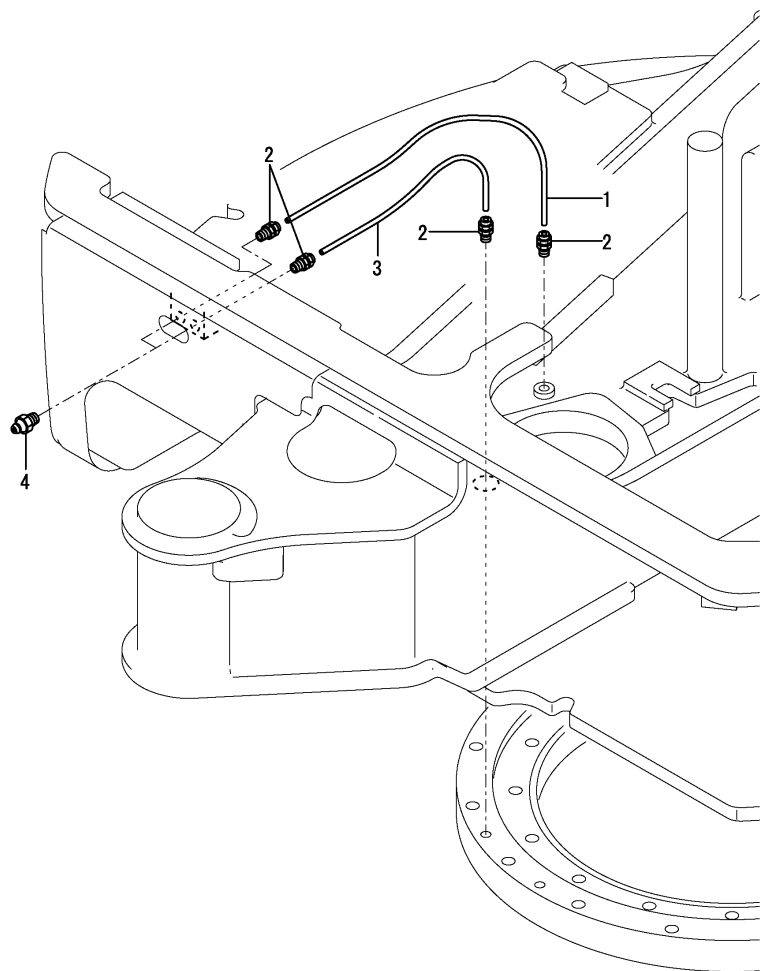
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172123-76121	ADAPTER	2							
2	1	172162-76181	JOINT ASSY	1							
4	2	41851-000110	O-RING	1							
5	1	172455-76220	CONNECTOR	2							
6	1	41851-000110	O-RING	4							
7	1	172469-78180	HOSE	1							
8	1	172469-78190	HOSE	2							
9	1	172469-78200	HOSE	1							
10	1	23000-013000	CLAMP, 13	2							

Fig.85. CONTROL PIPING(REMOTE CONTROL VALVE - CONTROL VALVE)



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172123-76121	ADAPTER	1							
2	1	172123-76121	ADAPTER	1							
3	1	172123-76121	ADAPTER	8							
4	1	172141-76181	CONNECTOR ASSY, 02FF	2							
6	2	41851-000110	O-RING	2							
7	1	172183-76200	CONNECTOR	1							
8	1	41851-000110	O-RING	1							
9	1	41851-000110	O-RING	1							
10	1	41851-000110	O-RING	1							
11	1	41851-000110	O-RING	8							
12	1	172126-11510	BAND	4							
13	1	172468-78130	HOSE	1							
14	1	172469-78210	HOSE	1							
15	1	172469-78220	HOSE	1							
16	1	172469-78230	HOSE	1							
17	1	172469-78240	HOSE	1							
18	1	172469-78250	HOSE	1							
19	1	172469-78260	HOSE	1							
20	1	172469-78270	HOSE	1							
21	1	172472-78800	SPONGE, HOSE	1							
22	1	172165-79810	SPONGE, HOSE	1							
23	1	172122-79930	CLAMP, HOSE	4							

Fig.86. GREASING

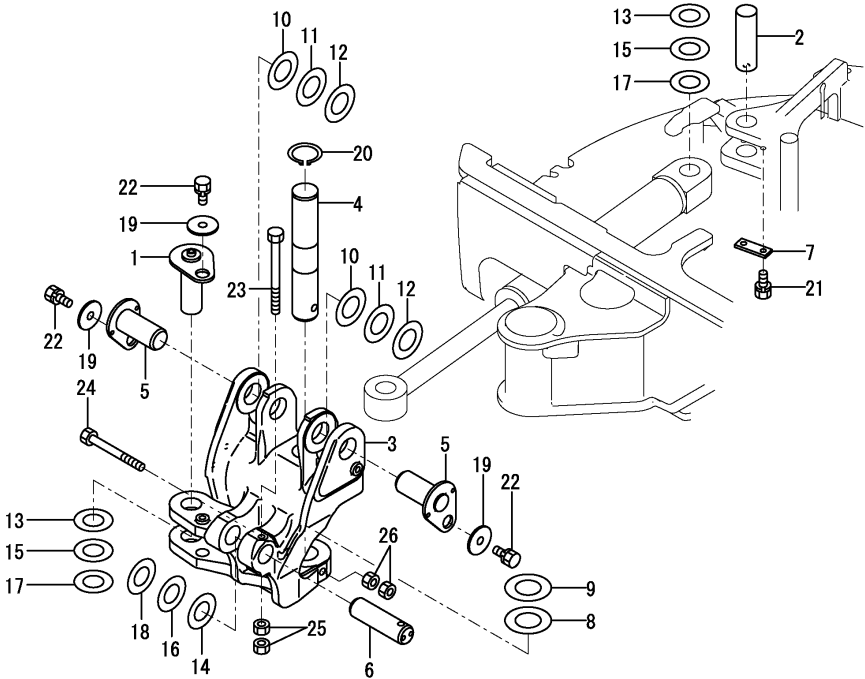


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172186-77100	HOSE	1							
2	1	172141-77800	JOINT, GREASE	4							
3	1	172151-77801	HOSE	1							
4	1	24761-020000	NIPPLE, GREASE PT1/8	2							

Fig.87. BOOM BRACKET

(A)=VIO20-3B P(KR)
(B)=
(C)=

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

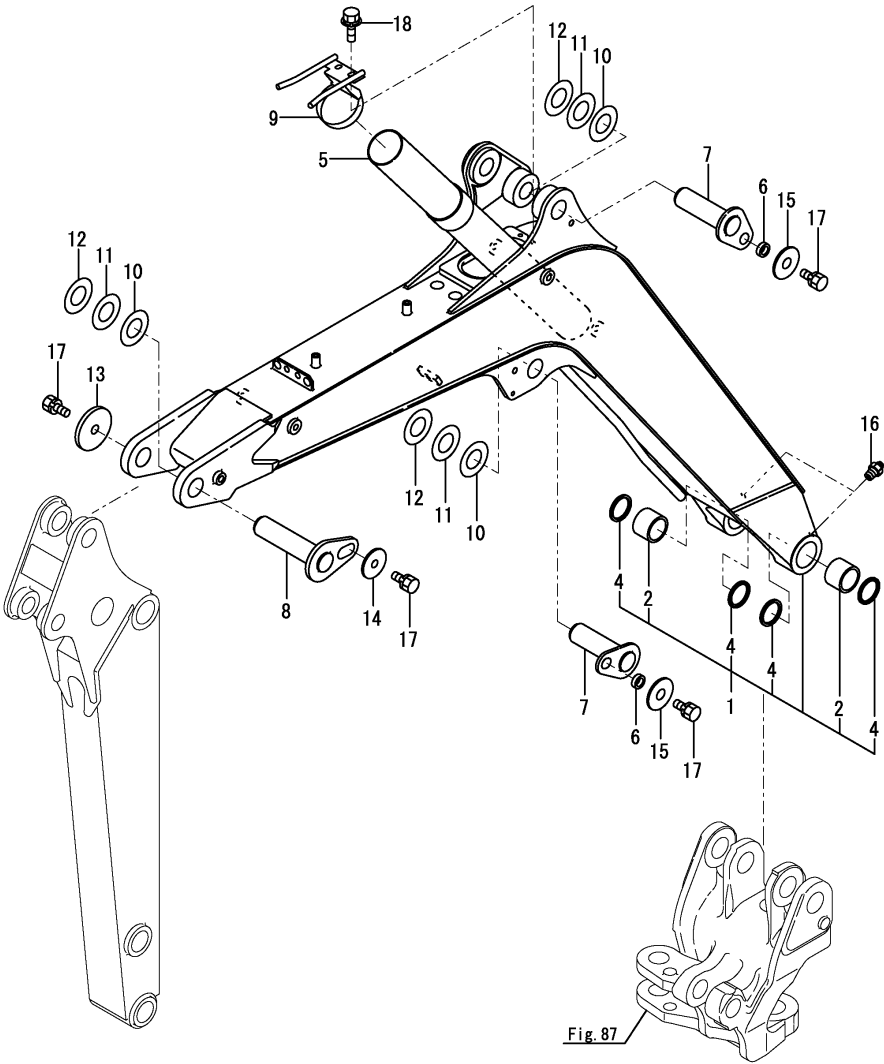


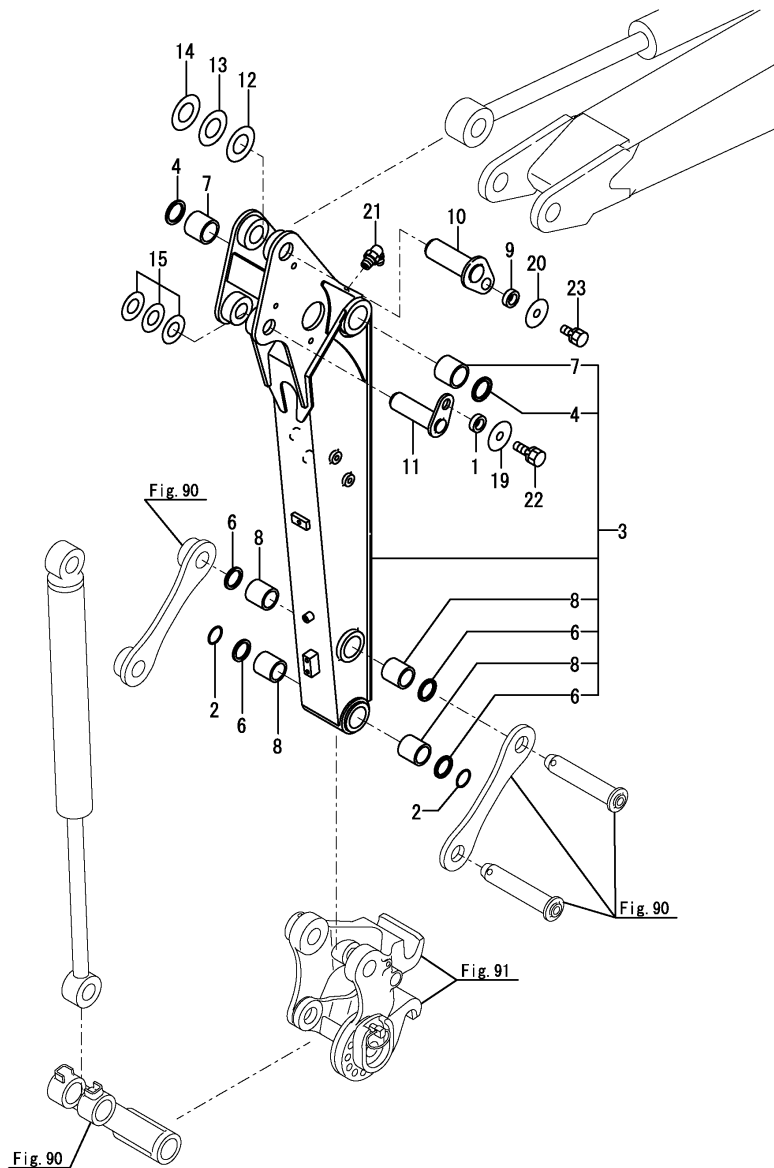
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-81900	PIN 40X103	1							
2	1	172458-81920	PIN	1							
3	1	172456-82300-Y	BRACKET, BOOM	1							
4	1	172456-82330	PIN 50X264	1							
5	1	172456-82340	PIN 45X98	2							
6	1	172456-82361	PIN 40X124	1							
7	1	172456-82400-3	PLATE, LOCK	1							
8	1	172165-82520	SHIM	1							
9	1	172165-82530	SHIM	1							
10	1	172165-82550	SHIM	2							
11	1	172165-82560	SHIM	2							
12	1	172165-82570	SHIM	2							
13	1	172165-82580	SHIM	2							
14	1	172165-82580	SHIM	1							
15	1	172165-82590	SHIM	2							
16	1	172165-82590	SHIM	1							
17	1	172165-82600	SHIM	2							
18	1	172165-82600	SHIM	1							
19	1	22157-120000	WASHER, 12	3							
20	1	22242-000500	RING, 50	1							
21	1	26013-100202	BOLT, M10X 20	2							
22	1	26013-120252	BOLT, M12X 25	3							
23	1	26116-121102	BOLT, M12X110 PLATED	1							
24	1	26206-141502	BOLT, M14X150 PLATED	1							
25	1	26716-120002	NUT, M12	2							
26	1	26716-140002	NUT, M14	2							

(A)=VIO20-3B P(KR)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A23-81090-Y	BOOM ASSY	1							
2	2	172168-72400	BUSH, 45-55-40	2							
4	2	172168-81410	SEAL, DUST 45X55X4	4							
5	1	172456-81450	PIPE ASSY, PROTECT	1							
5-1	1	172456-81451	PIPE ASSY	1							N
(A=MBF315)											
6	1	172164-81670	SPACER	2							
7	1	172456-81710	PIN ASSY, 40X134	2							
8	1	172456-81740	PIN ASSY, 40X167.5	1							
9	1	172458-81751-Y	CLAMP ASSY, PIPE	1							
10	1	172165-82580	SHIM, 40X75X0.5	3							
11	1	172165-82590	SHIM, 40X75X1.2	3							
12	1	172165-82600	SHIM, 40X75X1.6	3							
13	1	172146-82910	SPACER	1							
14	1	172444-82990	WASHER, 13X50X3.2	1							
15	1	22157-120000	WASHER, 12	2							
16	1	24761-050000	NIPPLE, GREASE C	2							
17	1	26013-120252	BOLT, M12X 25	4							
18	1	26014-080162	BOLT, M8X 16	2							

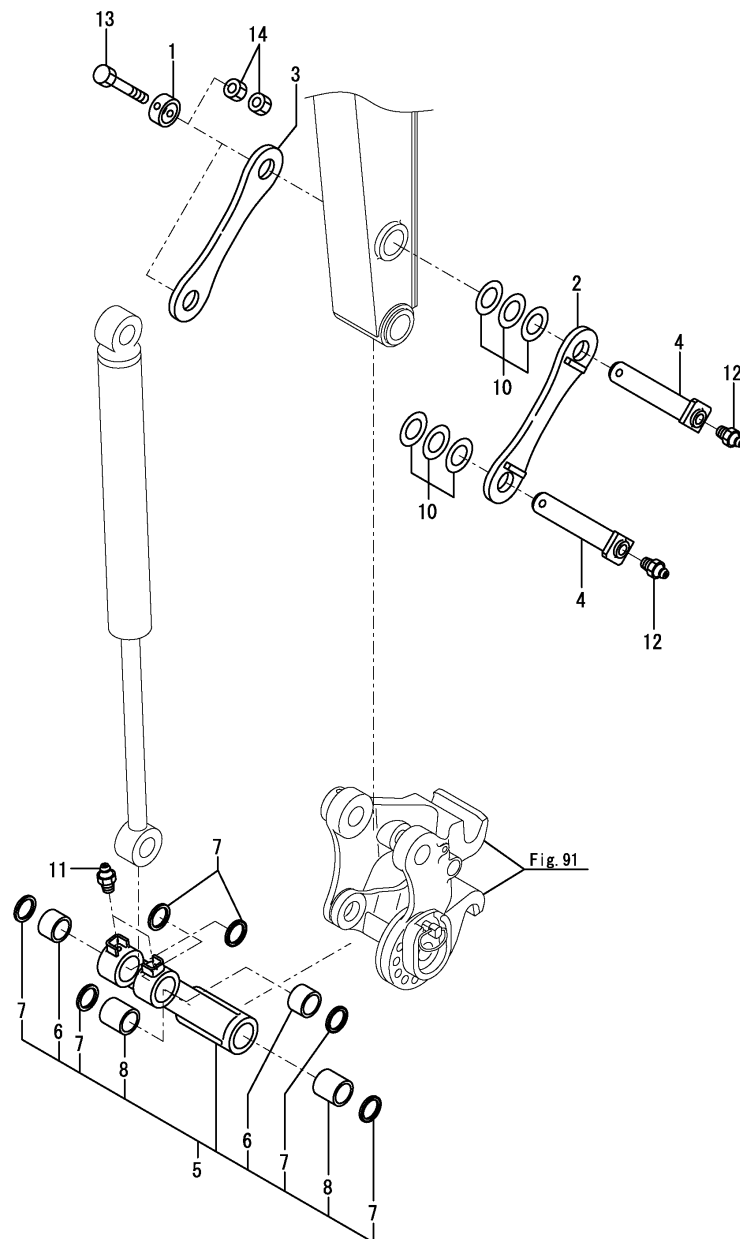




(A)=VIO20-3B P(KR)
(B)=
(C)=

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

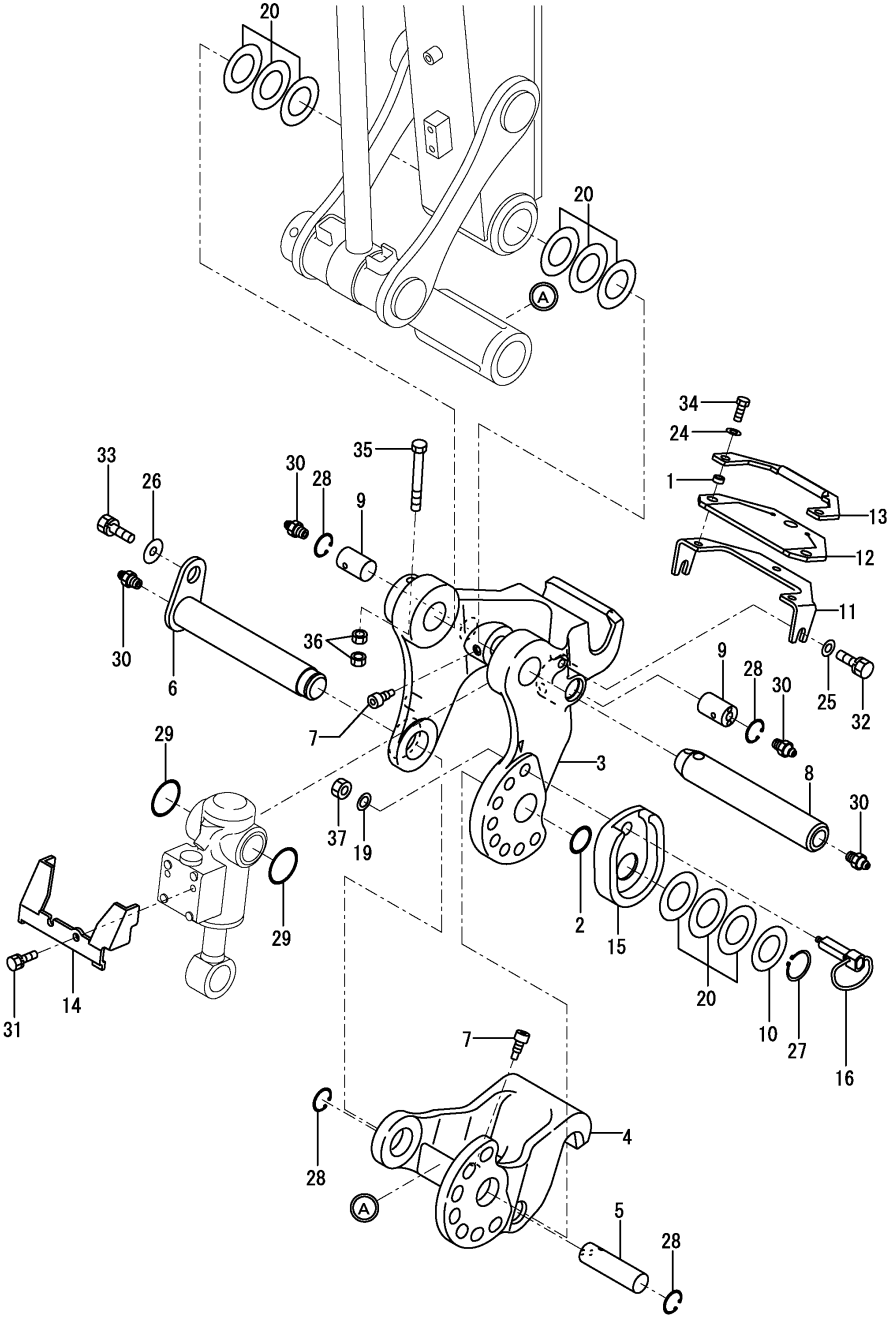
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172010-01640	SPACER	1							
2	1	172171-81270	O-RING, 61X6.0	2							
3	1	172956-81490-Y	ARM ASSY, 950	1							
4	2	172448-72650	SEAL, DUST	2							
6	2	172448-81610	SEAL, DUST 35X45X4	4							
7	2	172456-81650	BUSHING 40X50X45	2							
8	2	172141-82270	BUSH 35 45	4							
9	1	172164-81670	SPACER	1							
10	1	172456-81770	PIN 40X116 ASSY	1							
11	1	172456-81810	PIN 35X116 ASSY	1							
12	1	172165-82580	SHIM	1							
13	1	172165-82590	SHIM	1							
14	1	172165-82600	SHIM	1							
15	1	172141-84601	SHIM	1							
19	1	22157-100000	WASHER, 10	1							
20	1	22157-120000	WASHER, 12	1							
21	1	24761-040000	NIPPLE, GREASE B	1							
22	1	26013-100252	BOLT, M10X 25	1							
23	1	26013-120252	BOLT, M12X 25	1							



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172171-81500	COLLAR, 35X48.6X22	2							
2	1	172456-82701-Y	ARM, BUCKET	1							
3	1	172456-82710-Y	ARM, BUCKET	1							
4	1	172456-82831	PIN 35X160 ASSY	2							
5	1	172141-84403-Y	BACKETLINK ASSY	1							
6	2	172141-72561	BUSH (35-45-30	2							
7	2	172448-81610	SEAL, DUST 35X45X4	6							
8	2	172141-82270	BUSH 35 45	2							
10	1	172141-84601	SHIM	2							
11	1	24761-020000	NIPPLE, GREASE PT1/8	2							
12	1	24761-020000	NIPPLE, GREASE PT1/8	2							
13	1	26116-100652	BOLT, M10X 65 PLATED	2							
14	1	26716-100002	NUT, M10	4							

(A)=VIO20-3B P(KR)
(B)=
(C)=

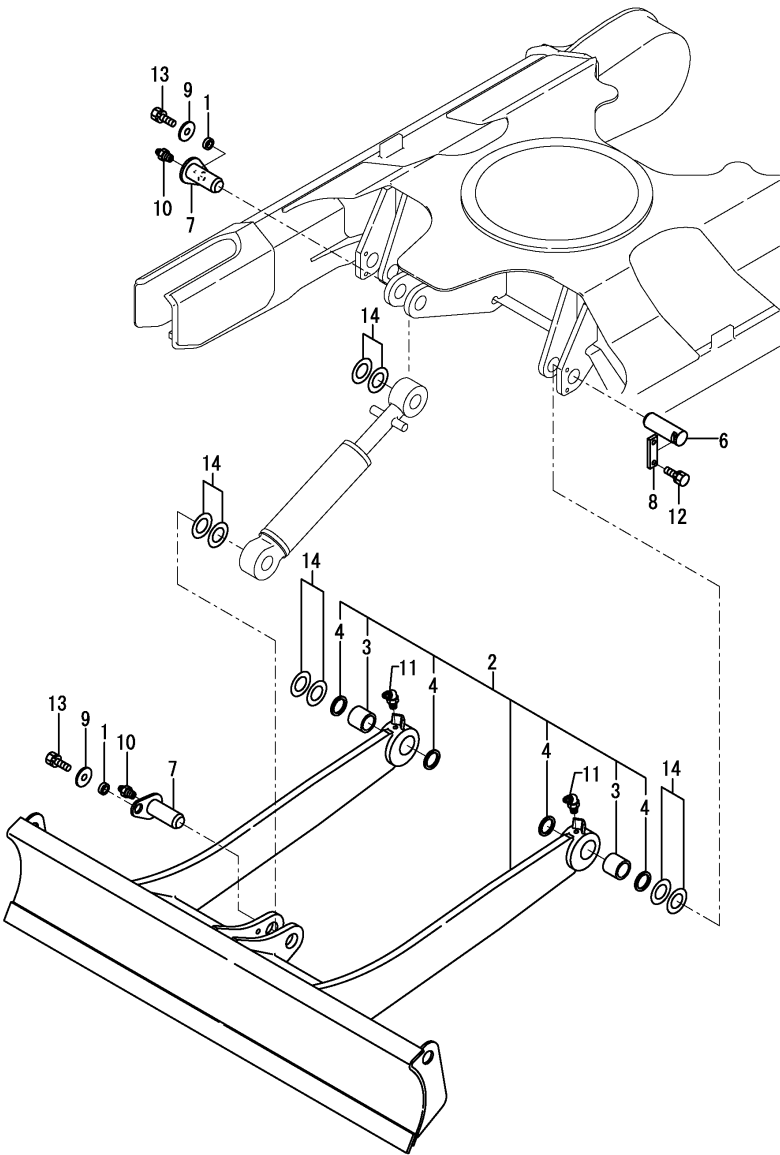
(D)=
(E)=
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172958-17121	COLLAR, 9X4	3							
2	1	172124-46200	O-RING, 27.6X5.7	1							
3	1	172956-83102-Y	BRACKET, A	1							
4	1	172956-83112-Y	BRACKET, B	1							
5	1	172958-83131	PIN, 25X86	1							
6	1	172956-83140	PIN ASSY, 35X213.5	1							
6-1	1	172956-83141	PIN ASSY, 35X213.5	1							N
(A=MBF315)											
7	1	172958-83140	BOLT, HEX SOCKET	3							
8	1	172956-83160	PIN, 35X218	1							
8-1	1	172956-83161	PIN, 35X218	1							N
(A=MBF315)											
9	1	172956-83200	PIN, 25-38	2							
9-1	1	172956-83201	PIN, 25X38	2							N
(A=MBF315)											
10	1	172956-83221	COLLAR, 32.5X55X1.2	1							
11	1	172956-83252-Y	GUARD ASSY	1							
12	1	172956-83282	PLATE, RUBBER	1							
13	1	172956-83291-Y	PLATE ASSY	1							
14	1	172958-83292-Y	COVER, HITCH	1							
15	1	172956-83350-Y	PLATE, LOCK	1							
16	1	172956-83362	PIN ASSY, LOCK	1							
19	1	172956-83381	WASHER, 6.4X14X1.5	1							
20	1	172141-84601	SHIM ASSY, 35	3							
24	1	22137-080000	WASHER, 8	3							
25	1	22137-100000	WASHER, 10	2							
26	1	22157-100000	WASHER, 10	1							
27	1	22242-000320	RING, 32	1							
28	1	22252-000250	RING, 25	4							
29	1	24311-000400	O-RING, 1AP40.0	2							
30	1	24761-020000	NIPPLE, GREASE PT1/8	4							
31	1	26013-080162	BOLT, M8X 16	2							
32	1	26013-100202	BOLT, M10X 20	2							
33	1	26013-100252	BOLT, M10X 25	1							
34	1	26116-080252	BOLT, M8X 25 PLATED	3							
35	1	26116-100802	BOLT, M10X 80 PLATED	1							
36	1	26716-100002	NUT, M10	2							
37	1	26756-060002	NUT, LOCK M6	1							

(A)=VIO20-3B P(KR)
(B)=
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(E)=
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172164-81670	SPACER	2							
2	1	172A23-94092	BLADE ASSY	1							
3	2	172168-72240	BUSH	2							
4	2	172168-81270	SEAL, DUST	4							
6	1	172422-94210	PIN	2							
7	1	172141-94271	PIN 38-94	2							
8	1	172124-94310-5	PLATE, LOCK	2							
9	1	22157-120000	WASHER, 12	2							
10	1	24761-020000	NIPPLE, GREASE PT1/8	2							
11	1	24761-040000	NIPPLE, GREASE B	2							
12	1	26013-100252	BOLT, M10X 25	4							
13	1	26013-120302	BOLT, M12X 30	2							
14	1	933171-29751	SHIM SET	4							

Parts No. Index

Parts No.	Fig. No.	Ref. No.
101720-55750	12	30
102103-55520	12	25
104200-55321	12	21
104200-55330	12	22
104200-55341	12	23
104200-55750	12	31
106990-44660	11	28
110250-55610	12	26
119247-77100	16	20
119255-44660	9	22
119650-77911	16	22
119802-77200	16	21
119808-12520	6	11
119808-12540	6	13
119813-44510	9	19
119866-12530	6	12
121250-49121	9	4
121256-44600	9	21
121257-55720	12	27
121257-55731	12	28
124064-55510	12	24
124450-44550	9	20
124766-59050	9	23
	11	29
	12	35
124970-77920	16	23
129211-77920	16	24
129335-55701	12	20
129612-52100	12	19
171081-55910	12	32
172010-01640	89	1
172068-28490	28	2
		10
	34	1
172110-36010	79	8
172110-45050	28	5
		13
172110-76170-5	83	9
172116-76381	77	11
172122-17190	46	19 -1
172122-37844	21	13
172122-46590	25	21
	27	29
	34	30
172122-70350	62	23
172122-73430	62	34
172122-73470	62	11
172122-73480	62	12
172122-79930	12	36
	75	21

Parts No.	Fig. No.	Ref. No.
172122-79930	77	25
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		17
	83	20
	85	23
172123-76121	78	2
	80	6
	84	1
	85	1
		2
		3
172124-46200	25	16
	27	9
	31	3
	34	29
	91	2
172124-65480	49	13
172124-94310-5	92	8
172125-03951	2	9
172126-11510	6	3
		7
	9	1
	12	1
	15	1
		38
	16	1
	77	19
	85	12
172126-16540	14	6
172137-12270	7	5
172137-16560	15	18
	76	13
172137-46210	18	18
172137-69850	44	3
172137-70490	63	10
172137-70570	63	11
172137-70580	63	12
172137-76580	83	10
172141-37140	21	6
172141-41340	25	1
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172141-41370	25	3
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	27	2
	31	6
	34	21
172141-50763-1	39	1

Parts No.	Fig. No.	Ref. No.
172141-57650	38	5
172141-70110	62	18
172141-70150	62	20
172141-70160	62	21
172141-70450	62	5
172141-72420	60	13
172141-72561	90	6
172141-73770	74	4
172141-76181	76	5
	77	5
	78	10
	80	9
	83	5
	85	4
172141-76220	78	21
172141-76920	76	8
	77	12
172141-77260	63	36
172141-77400	63	51
172141-77800	86	2
172141-82270	89	8
	90	8
172141-84403-Y	90	5
172141-84601	89	15
	90	10
	91	20
172141-94271	92	7
172142-62301	40	13
172142-76181	75	5
	77	8
	81	2
172142-76270	82	4
172142-76950-Y	82	18
172142-77040	82	5
172143-72400	60	10
172146-41320	40	1
172146-61370	40	8
172146-73730	74	5
172146-82910	88	13
172147-70120	62	19
172147-70220	62	3
172147-70500	62	22 -1
172147-76260	77	10
172147-76271	78	22
172148-70301	62	22
172148-73350	63	13
172151-77801	86	3
172156-11150	42	9
172156-65690	50	32
172156-72400	61	2

Parts No.	Fig. No.	Ref. No.
172156-81430	9	24
172156-84440	61	20
172157-13381	9	12
172157-45990	27	22
	34	7
172162-12480	33	1
172162-14200	11	5
172162-46690	31	9
172162-62540	45	10
		13
172162-70780	62	6
172162-76131	76	4
	77	3
	79	3
172162-76181	78	13
	84	2
172164-45970	26	3
172164-61250	10	11
	40	4
172164-62431	59	21
172164-66170	49	22
	50	18
172164-66480	10	5
	46	18
172164-66800	10	6
	40	11
172164-76131	78	3
172164-76330	78	23
172164-81670	88	6
	89	9
	92	1
172165-45970	30	10
172165-46340	27	23
	34	9
172165-47550	31	12
172165-47980	31	15
172165-47990	31	16
172165-53480	36	13
172165-53500	36	14
		15
	52	1
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26106-100252	95	22
26116-060122	40	19
26116-080162	13	11
26116-080252	91	34
26116-080254	26	7
	27	15
	34	13
26116-080702	12	40
26116-100162	56	35
		36
	58	38
	59	24
	26116-100202	27
		16
	34	41
26116-100352	47	12
26116-100404	25	11
26116-100604	25	12
26116-100652	90	13
26116-100802	91	35
26116-120162	15	36
26116-120252	39	24
26116-121102	87	23
26116-140302	74	26
26116-140352	74	27
26116-160452	36	18
	52	4
	36	19
26117-060554	7	21
26206-141502	87	24
26346-100002	53	5
26347-080002	28	8
		16
	34	14
	50	42
26347-100002	49	36
	50	28
	5	5
26366-100002	11	36
26367-100002	67	13
26450-050102	68	13
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26450-050452	55	38
26450-060102	7	22
26450-060302	61	26
26450-080202	62	87
26450-120402	54	4
26559-050202	95	23
26577-080122	48	6
26587-040122	25	13
26711-080002	55	58
26716-060002	14	10
	15	37
26716-080002	13	12
	26	8
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	66	32
26716-100002	8	13
	25	14
	47	13
	90	14
	91	36
26716-120002	87	25
26716-140002	87	26
26756-060002	91	37
26757-050002	26	11
26757-100002	7	23
	34	16
26776-180002	17	2
	30	21
26857-060002	7	24
29311-252000	78	47
29420-050000	15	13
29420-150000	15	14
29420-300000	15	15
41851-000110	70	30
	76	7
	77	2
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	78	12
		15
		20
		26
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41851-000140	70	15
	75	11
	76	12
		15
	77	16
		17
		18
	78	17
	79	7
	80	14
		15
	81	4
		5
		6
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	78	
772456-14112	11	1
772456-37100-2	21	2
772456-37120-1	21	1
772A23-75100-Y	74	1
933110-00301	16	8
933110-54100	25	25
	26	14
	27	34
	34	42
933111-26600	60	25
933126-38600	21	19
933147-03400	56	37
	58	39
	59	25
933152-02710	74	23
933168-14170	56	38
	58	40
	59	26
933168-55770	26	15
933171-13691	21	20
	22	7
933171-15680	16	33
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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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0CB50-M00080EN



Precautions

1. Some of the illustrations in this parts catalog are simplified.
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.
5. Please refer to the user manual or service manual for information on how to replace parts, technical information, and other related details.
6. If you are using a booklet or PDF parts catalog, you must verify the latest information via the online parts catalog.

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- 1) The contents provided in this parts catalog may not correspond with the latest products due to changes in regulations, product specifications, or other amendments.
- 2) The illustrations of the products listed in this parts catalog (including 3D images) are for image purposes only and may differ from the actual product and specifications.
- 3) This parts catalog does not guarantee conformity to the customer's requirements.
- 4) In addition to the previous items, we do not guarantee the accuracy, completeness, assurance, applicability, usefulness, availability, safety or reliability of this parts catalog.

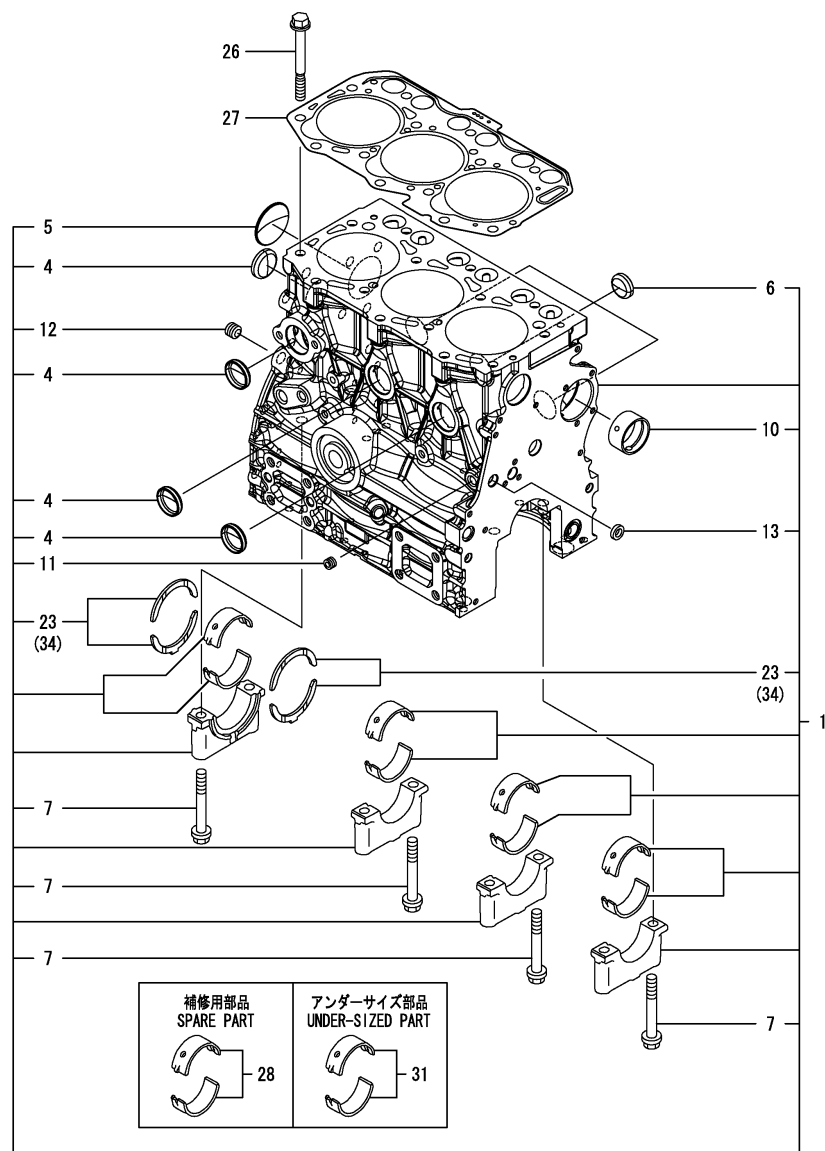
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4. When using this parts catalog, you must comply with the laws and regulations applicable in the country or region in which you use it. Our company assumes no responsibility for any violations of laws and regulations by the customer.

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14.	STARTER MOTOR (TO NOV. 2022)		
17.	(14A)STARTER MOTOR(FROM NOV. 2022)		
15.	GENERATOR		
16.	GASKET SET		



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119E00-01560	BLOCK ASSY, CYLINDER	1							
4	2	105311-01090	PLUG, 30	4							
5	2	119623-01250	PLUG, 45	1							
6	2	119285-01990	PLUG, 25	3							
7	2	119620-02020	BOLT, METAL CAP	8							
10	2	119717-02411	BUSH, CAMSHAFT	1							
11	2	124060-01050	PLUG, PT1/8	1							
12	2	124160-01910	PLUG, PT1/4	1							
13	2	27241-120000	PLUG, 12	1							
23	2	119717-02930	METAL ASSY, THRUST	2							
26	1	119810-01200	BOLT, CYLINDER HEAD	14							
27	1	119E10-01330	GASKET SET, HEAD	1							
28	1	719717-02901	METAL ASSY, MAIN	4							1
31	1	719717-02911	METAL ASSY, MAIN .25	4							2
34	1	119810-02941	METAL ASSY, 0.25 OS	2							3

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

(A)=3TNV80-XPBV
(B)=
(C)=

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

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	STUD	3							
3	1	119734-01590	COVER ASSY, CASE	1							
4	2	719734-01500	COVER ASSY, CASE	1							
5	3	119717-01521	COVER, GEAR CASE	1							
6	4	23876-030000	PLUG, R03	2							
7	3	119717-01800	SEAL, OIL	1							
8	2	119717-32100	COVER ASSY, PUMP	1							
9	3	119717-32080	COVER, OIL 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	119717-01750	COVER, PUMP	1							
17	1	119660-01911	PIPE, KNOCK 6X17	4							
18	1	119624-32040	O-RING, P12.0	1							
19	1	119717-32050	O-RING, P17.0	3							
20	1	121850-51960	O-RING, FUEL PUMP	1							
21	1	26106-060122	BOLT, M6X 12 PLATED	1							
22	1	26106-060162	BOLT, M6X 16 PLATED	4							
23	1	26106-060402	BOLT, M6X 40 PLATED	4							
24	1	26106-060402	BOLT, M6X 40 PLATED	3							
25	1	26106-060602	BOLT, M6X 60 PLATED	7							
26	1	26106-060652	BOLT, M6X 65 PLATED	2							
27	1	26306-080002	NUT, M8	3							
28	1	124160-01751	CAP, FILLER	1							
29	1	24311-000320	O-RING, 1AP32.0	1							

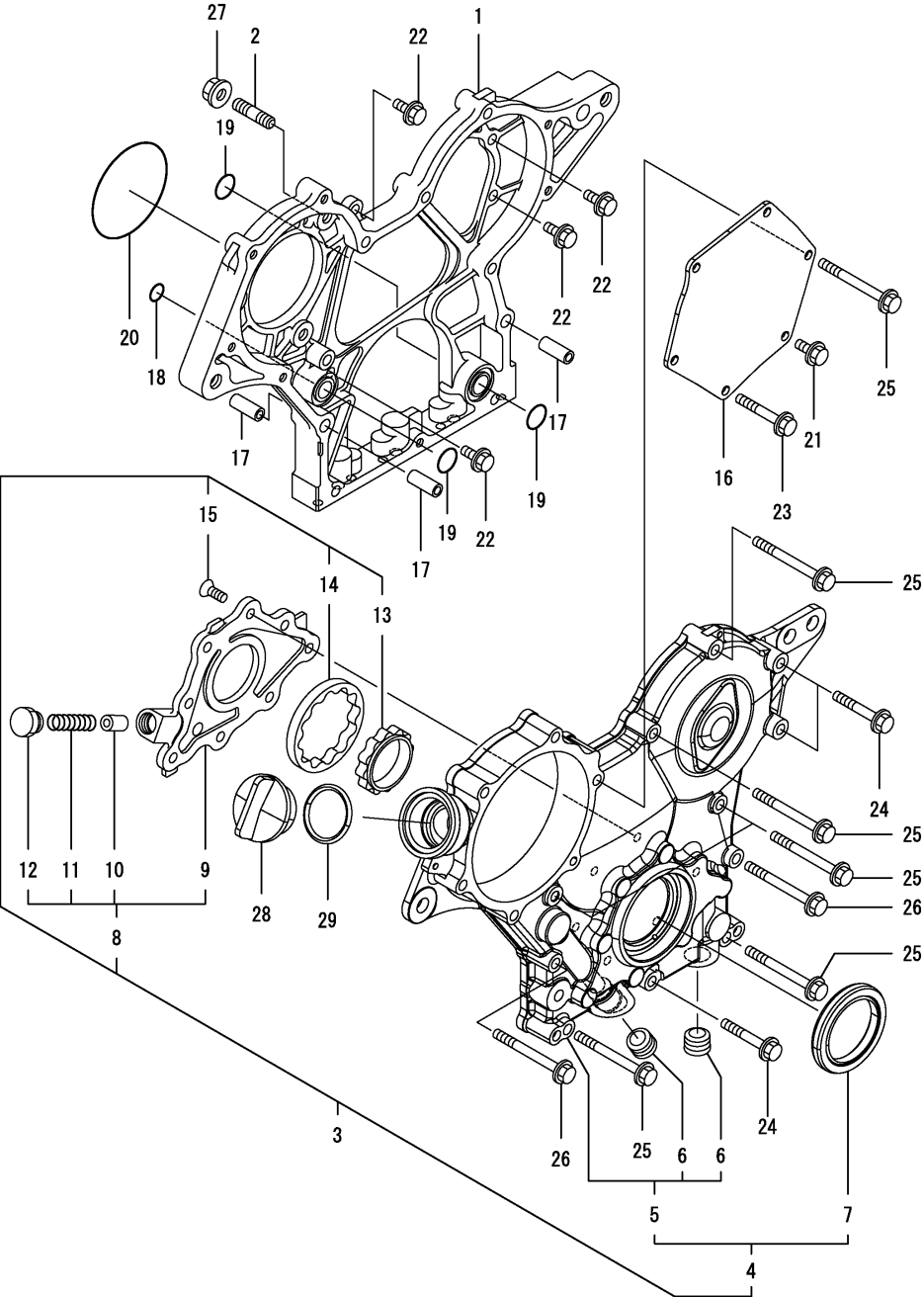
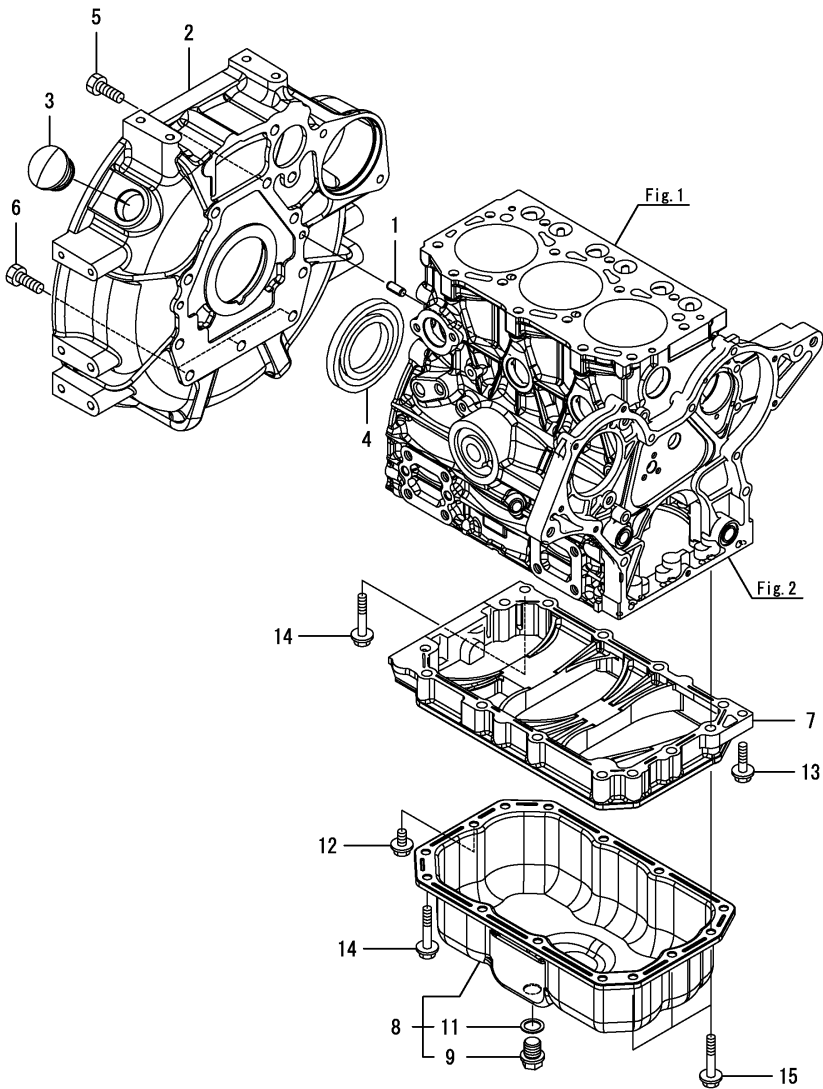
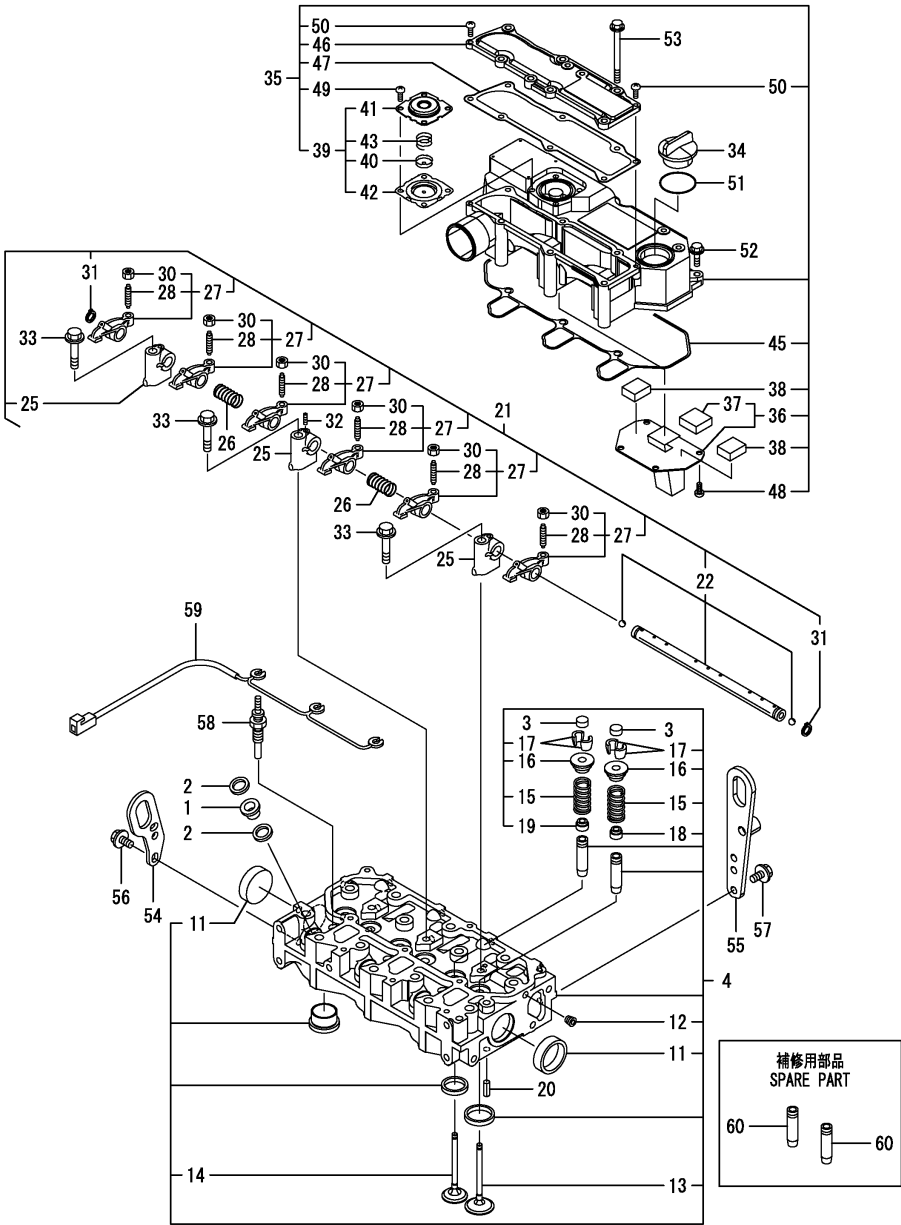


Fig.3. FLYWHEEL HOUSING & OIL SUMP



				0CB50-M00080 Fig.3								
				(A)=3TNV80-XPBV	(D)=							
				(B)=	(E)=							
				(C)=	(F)=							
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	119717-01601	HOUSING, FLYWHEEL	1								
3	1	119620-01750	CAP, WHEEL COVER	1								
4	1	124085-02220	SEAL, METAL HOUSING	1								
5	1	26206-100252	BOLT, M10X 25 PLATED	8								
6	1	26206-100302	BOLT, M10X 30 PLATED	3								
7	1	119717-01720	SPACER, OIL PAN	1								
8	1	119740-01770	OIL PAN ASSY	1								
9	2	105425-01690	PLUG, DRAIN M16	1								
11	2	22190-160002	WASHER, SEAL 16	1								
12	1	26106-080122	BOLT, M8X 12 PLATED	1								
13	1	26106-080302	BOLT, M8X 30 PLATED	1								
14	1	26106-080452	BOLT, M8X 45 PLATED	11								
15	1	26106-080502	BOLT, M8X 50 PLATED	3								

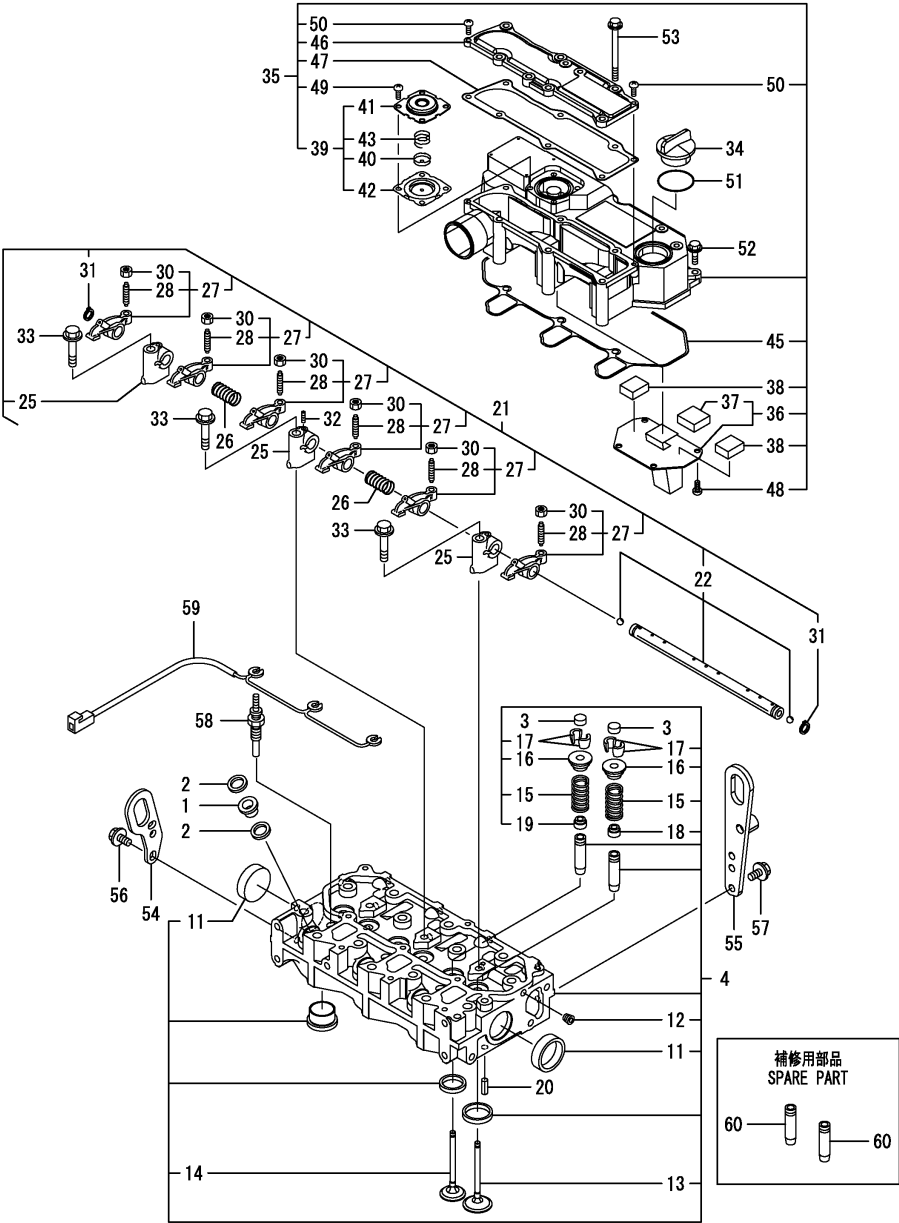
Fig.4. CYLINDER HEAD & BONNET



Remarks
(1)Spare parts.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129901-11450	PROTECTOR, NOZZLE	3							
2	1	119600-11460	GASKET, NOZZLE	6							
3	1	105010-11490	CAP, VALVE	6							
4	1	119E10-11740	HEAD ASSY, CYLINDER	1							
11	2	119285-11990	PLUG, 35	2							
11-1	2	27241-350000	PLUG, 35	2							R
(A=*2025.09.)											
12	2	23876-005000	PLUG, R005	1							
13	2	119E10-11100	VALVE, INTAKE	3							
14	2	119E10-11110	VALVE, EXHAUST	3							
15	2	119717-11131	SPRING, VALVE	6							
16	2	129508-11180	RETAINER, SPRING	6							
17	2	119717-11190	COTTER, VALVE	12							
18	2	119717-11340	SEAL, VALVE STEM	3							
19	2	119717-11350	SEAL, VALVE STEM	3							
20	1	22351-060012	PIN, SPRING 6.0X12	2							
21	1	119717-11200	SUPPORT ASSY, ROCKER	1							
22	2	119717-11240	SHAFT ASSY, ARM	1							
25	2	119717-11260	SUPPORT, ROCKER ARM	3							
26	2	119620-11280	SPRING, SHAFT	2							
27	2	119717-11650	ARM ASSY, ROCKER INT	6							
28	3	129150-11230	SCREW, VALVE ADJUST	6							
30	3	129150-11750	NUT, M8XP1.0	6							
31	2	22242-000120	RING, 12	2							
32	2	26979-050162	SCREW, M5X16	1							
33	1	26106-080402	BOLT, M8X 40 PLATED	3							
34	1	124160-01751	CAP, FILLER	1							
35	1	119717-11381	BONNET ASSY, HEAD	1							
36	2	119717-03031	PLATE, BAFFLE	1							
37	3	119717-03070	BAFFLE, BREATHER	1							
38	2	119717-03070	BAFFLE, BREATHER	2							
39	2	119802-03100	DIAPHRAGM ASSY	1							
40	3	119802-03110	PLATE, DIAPHRAGM	1							
41	3	119802-03121	COVER, DIAPHRAGM	1							
42	3	119802-03131	DIAPHRAGM, BREATHER	1							
43	3	119802-03141	SPRING, DIAPHRAGM	1							
45	2	119718-11310	GASKET, BONNET	1							
46	2	119717-11320	COVER, BONNET	1							
47	2	119717-11331	GASKET, BONNET COVER	1							
48	2	22857-500100	SCREW, 5X10	4							
49	2	22857-500100	SCREW, 5X10	4							
50	2	22857-500160	SCREW, 5X16	2							
51	1	24311-000320	O-RING, 1AP32.0	1							
52	1	26106-060202	BOLT, M6X 20 PLATED	3							
53	1	26106-060752	BOLT, M6X 75 PLATED	6							
54	1	119626-07900	LIFTER, ENGINE	1							
55	1	119940-07900	LIFTER, ENGINE	1							
56	1	26106-080142	BOLT, M8X 14 PLATED	2							
57	1	26106-080162	BOLT, M8X 16 PLATED	2							
58	1	119717-77801	PLUG, GLOW	3							
58-1	1	119717-77810	PLUG, GLOW 12V	3							N

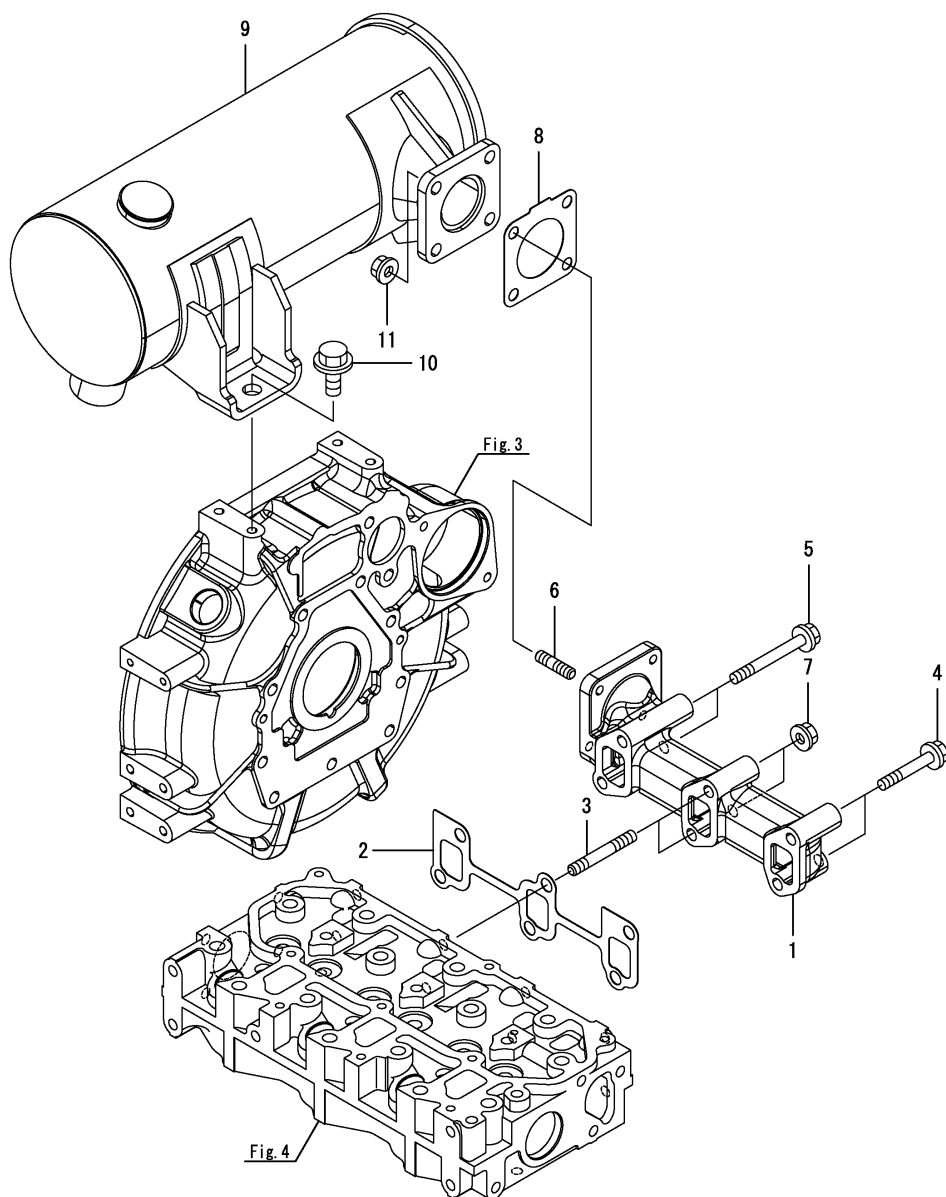
Fig.4. CYLINDER HEAD & BONNET



Remarks
(1)Spare parts.

0CB50-M00080										Fig.4	
(A)=3TNV80-XPBV										(D)=	
(B)=										(E)=	
(C)=										(F)=	
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
(A=*2023.06)											
59	1	119717-77820	CONNECTOR, GLOW PLUG	1							
60	1	119717-11800	GUIDE, VALVE	6							1

Fig.5. EXHAUST MANIFOLD & SILENCER



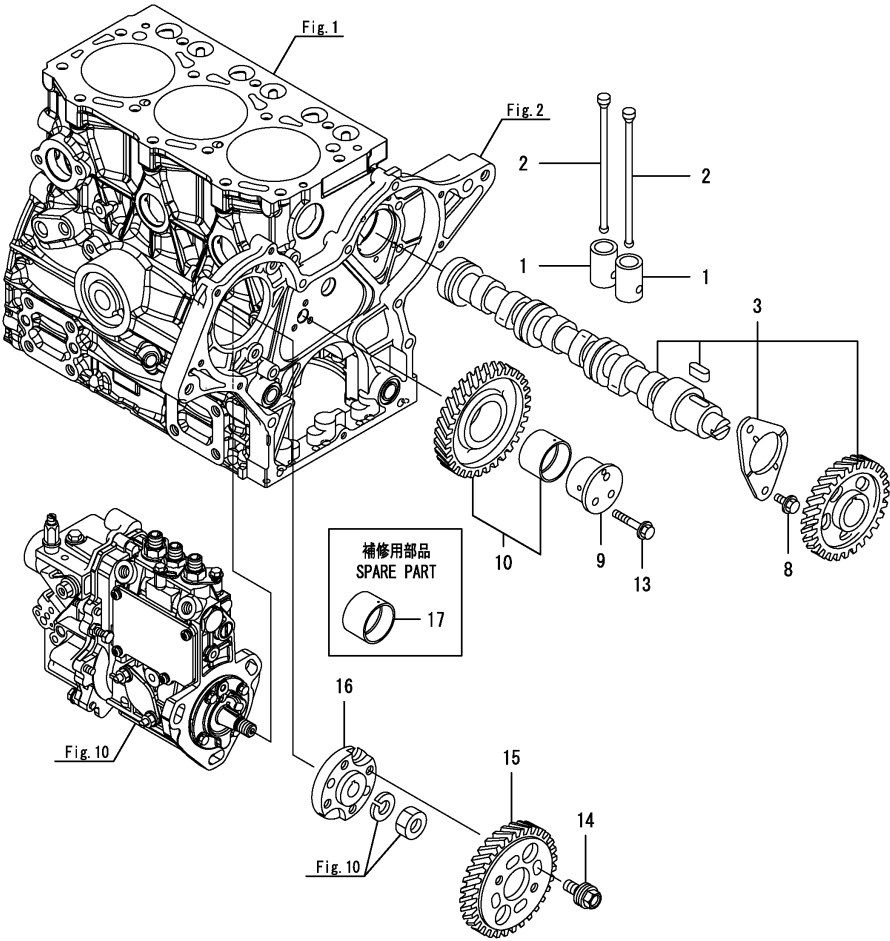
No.	Lev.	Parts No.	Description	(A)=3TNV80-XPBV		(D)=		I	R
				(B)=	(C)=	(E)=	(F)=		
				(A)	(B)	(C)	(D)	(E)	(F)
1	1	119740-13100	MANIFOLD, EXHAUST	1					
2	1	119717-13110	GASKET, MANIFOLD	1					
3	1	119717-13600	STUD, M8X50	2					
4	1	129E00-13610	BOLT, M8X50 10.9T	2					
5	1	129E00-13630	BOLT, M8X71 10.9T	2					
6	1	119131-18320	STUD, M8X22	4					
7	1	26306-080002	NUT, M8	2					
8	1	119515-13200	GASKET, SILENCER	1					
9	1	119740-13511	SILENCER	1					
10	1	26106-100182	BOLT, M10X 18 PLATED	2					
11	1	26306-080002	NUT, M8	4					

Fig.6. CAMSHAFT & DRIVING GEAR

(A)=3TNV80-XPBV
(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	119717-14400	ROD, PUSH	6							
3	1	119717-14581	CAMSHAFT ASSY	1							
8	1	26106-060122	BOLT, M6X 12 PLATED	2							
9	1	119717-25050	SHAFT, IDLE GEAR	1							
10	1	119717-25101	GEAR ASSY, IDLE	1							
13	1	26106-060352	BOLT, M6X 35 PLATED	3							
14	1	129150-25301	BOLT, INJECTION PUMP	4							
15	1	119717-25930	GEAR, PUMP	1							
16	1	119717-51150	FLANGE, CAMSHAFT	1							
17	1	119717-25911	BUSH, IDLE GEAR	1							1

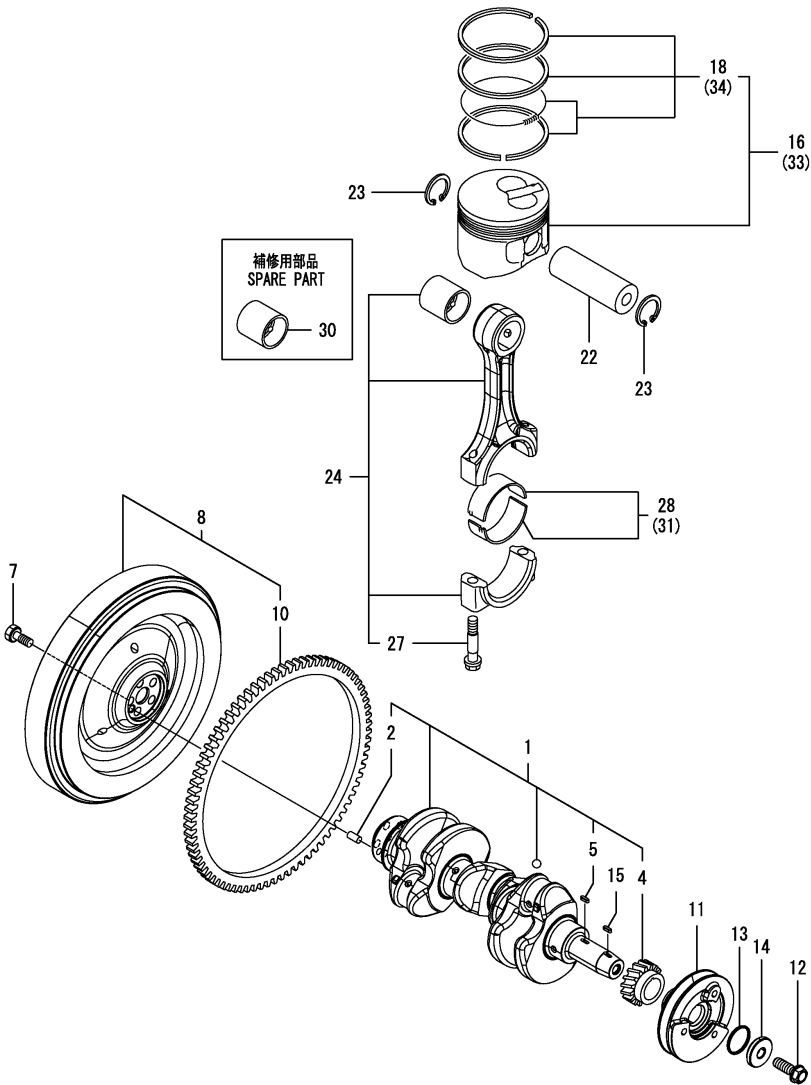


Remarks
(1)Spare parts.

Fig.7. CRANKSHAFT & PISTON

(A)=3TNV80-XPBV
(B)=
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119E10-21700	CRANKSHAFT ASSY	1							
2	2	129100-01580	PIN, PARALLEL 8X16	1							
4	2	119717-21200	GEAR, CRANKSHAFT	1							
5	2	22512-040120	KEY, 4X 12	1							
7	1	121111-21501	BOLT, FLYWHEEL	5							
8	1	119E10-21590	FLYWHEEL ASSY	1							
10	2	119865-21600	GEAR, RING Z=116	1							
11	1	119C10-21650	V-PULLEY, CRANKSHAFT	1							
12	1	119621-21681	BOLT, FLANGE 12X1.25	1							
13	1	119C10-21930	GASKET, WASHER	1							
14	1	119C10-21940	WASHER, V-PULLEY	1							
15	1	22512-040120	KEY, 4X 12	1							
16	1	119E10-22080	PISTON ASSY	3							
18	2	119E10-22500	RING SET, PISTON	3							
22	1	119E10-22300	PIN, PISTON	3							
23	1	22252-000220	RING, 22	6							
24	1	119E10-23000	ROD ASSY, CONNECTING	3							
27	2	119717-23200	BOLT, CONNECTING ROD	6							
28	1	119717-23601	METAL ASSY,CRANK PIN	3							
30	1	119717-23910	METAL, PISTON PIN	3							1
31	1	119717-23611	METAL ASSY, PIN .25	3							2
33	1	119E10-22900	PISTON ASSY, 0.25 OS	3							3
34	2	119E10-22550	RING SET, PISTON .25	3							3

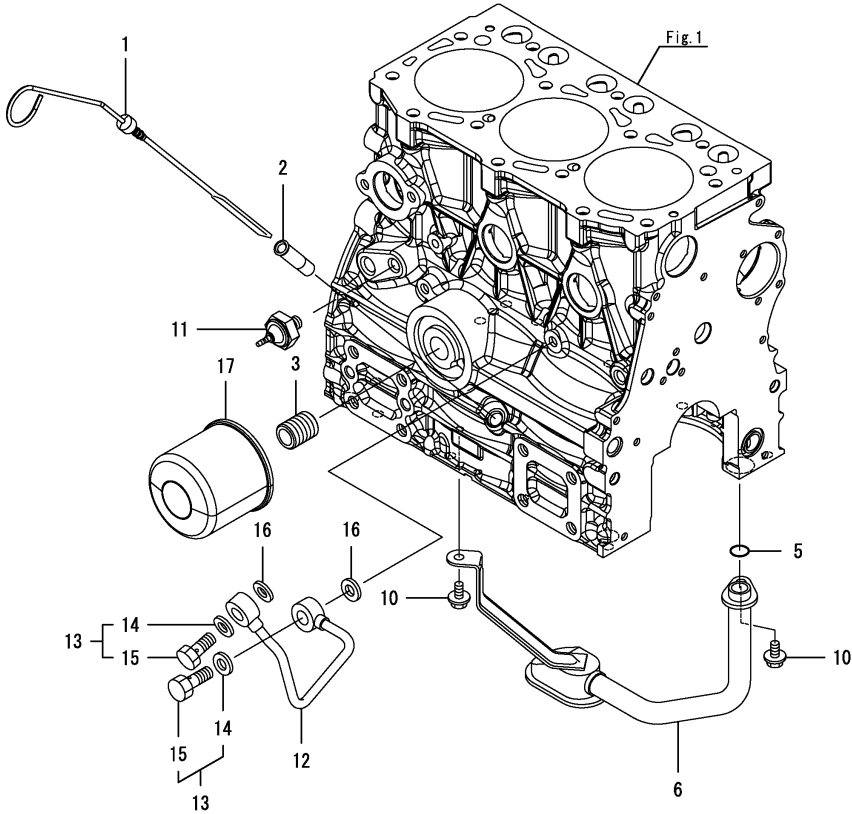
Remarks
(1)Spare parts.
(2)Under-sized(U.S.=0.25) parts.
(3)Over-sized(O.S.=0.25) parts.

Fig.8. LUB. OIL SYSTEM

(A)=3TNV80-XPBV
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119740-34801	DIPSTICK, OIL	1							
2	1	121520-34810	GUIDE, DIPSTICK	1							
3	1	119717-35140	STUD	1							
3-1	1	119417-35140	STUD, LO FILTER	1							N
		(A=01649)									
5	1	119717-32060	O-RING, P15.0	1							
6	1	119717-35080	PIPE ASSY, OIL INLET	1							
10	1	26106-060102	BOLT, M6X 10 PLATED	2							
11	1	114250-39450	SWITCH, HYDRAULIC	1							
12	1	119717-39210	PIPE, PUMP	1							
13	1	129005-59830	BOLT ASSY, JOINT M8	2							
14	2	22190-080002	WASHER, SEAL 8	2							
15	2	23857-030000	BOLT, JOINT 3	2							
16	1	22190-080002	WASHER, SEAL 8	2							
17	1	119305-35170	FILTER ASSY, D68XL65	1							

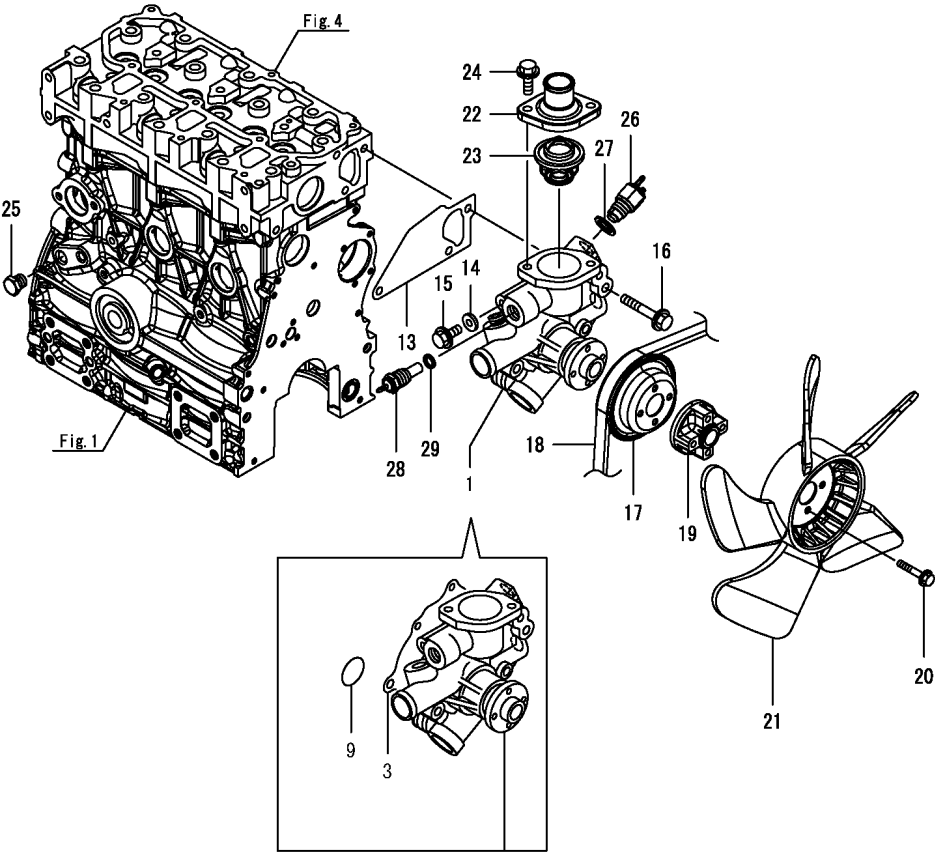


Remarks
(1)Spare parts.

Fig.9. COOLING WATER SYSTEM

(A)=3TNV80-XPBV
(B)=
(C)=

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

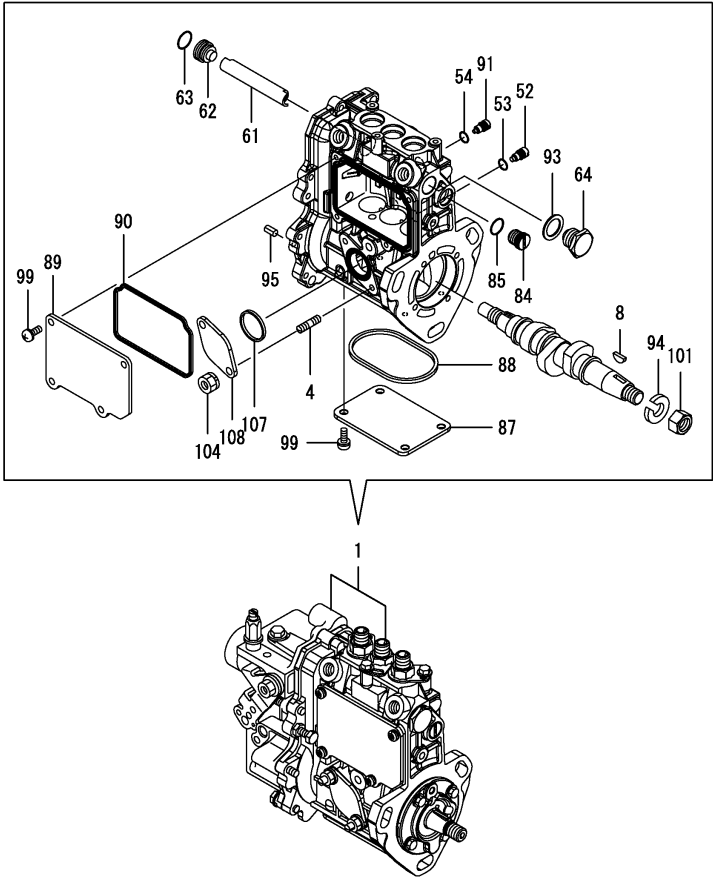


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119E10-42000	PUMP ASSY, WATER	1							
1-1	1	119E10-42001	PUMP ASSY, CW	1						N	
(A=01645)											
3	2	119717-42031	GASKET, WATER PUMP	1							
9	2	119C10-42320	O-RING, 2028	1							
13	1	119717-42020	GASKET, WATER PUMP	1							
14	1	23414-080000	GASKET, 8X1.0	1							
15	1	26106-080122	BOLT, M8X 12 PLATED	1							
16	1	26106-080502	BOLT, M8X 50 PLATED	3							
17	1	119740-42350	V-PULLEY, PUMP D=90	1							
18	1	25152-003500	V-BELT, A35	1							
19	1	171353-44760	SPACER, FAN 25MM	1							
20	1	26106-060352	BOLT, M6X 35 PLATED	4							
21	1	119233-44740	FAN, COOLING D290XUH	1							
22	1	129350-49530	COVER, THERMOSTAT	1							
23	1	119717-49800	THERMOSTAT, 71C	1							
24	1	26106-080202	BOLT, M8X 20 PLATED	2							
25	1	171056-49120	PLUG, DRAIN R1/4	1							
26	1	121250-44901	SWITCH, TEMPERATURE	1							
27	1	124465-44950	GASKET, 16	1							
28	1	171056-49351	SENSOR, TEMPERATURE	1							
29	1	129150-49360	GASKET, 10	1							

Fig.10. FUEL INJECTION PUMP

(A)=3TNV80-XPBV
(B)=
(C)=

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

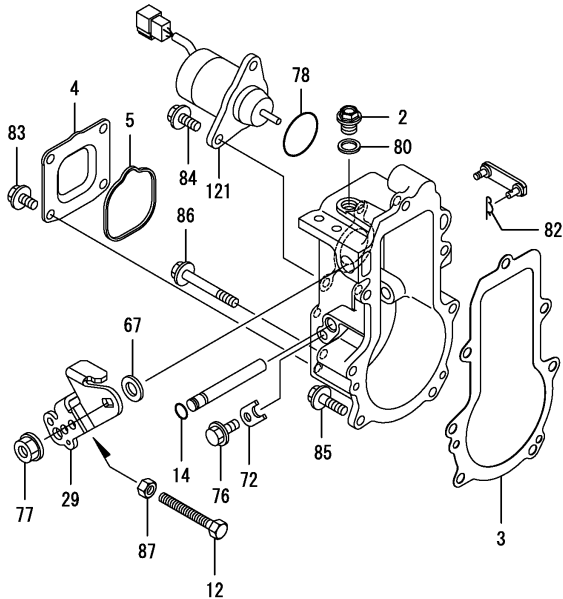


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719E40-51370	FIE ASSY	1							1
4	2	129155-51020	STUD	2							
8	2	122710-51090	KEY, FEATHER	1							
52	2	158600-51270	STOPPER, TAPPET	3							
53	2	129155-51280	O-RING, S6	3							
54	2	129155-51280	O-RING, S6	1							
61	2	129155-51400	PROTECTOR	1							
62	2	158600-51410	PLUG, DEFLIFTER M12	1							
63	2	119717-51420	O-RING	1							
64	2	158600-51420	PLUG, DEFLIFTER M16	1							
84	2	158600-51570	PLUG, RACK	1							
85	2	129155-51580	O-RING	1							
87	2	129155-51701	COVER, PUMP BOTTOM	1							
88	2	119717-51711	GASKET, PUMP	1							
89	2	119717-51750	COVER, BODY SIDE	1							
90	2	119717-51761	GASKET, PUMP COVER	1							
91	2	158600-51790	STOPPER, RACK	1							
93	2	22190-160002	WASHER, SEAL 16	1							
94	2	22217-120000	WASHER, SPRING 12	1							
95	2	22351-050010	PIN, SPRING 5.0X10	2							
99	2	26022-050122	SCREW, M5X12	8							
101	2	26716-120002	NUT, M12	1							
104	2	119717-51860	NUT, M6	2							
107	2	129155-52051	GASKET, PUMP COVER	1							
108	2	129100-52200	COVER, FEED PUMP	1							

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

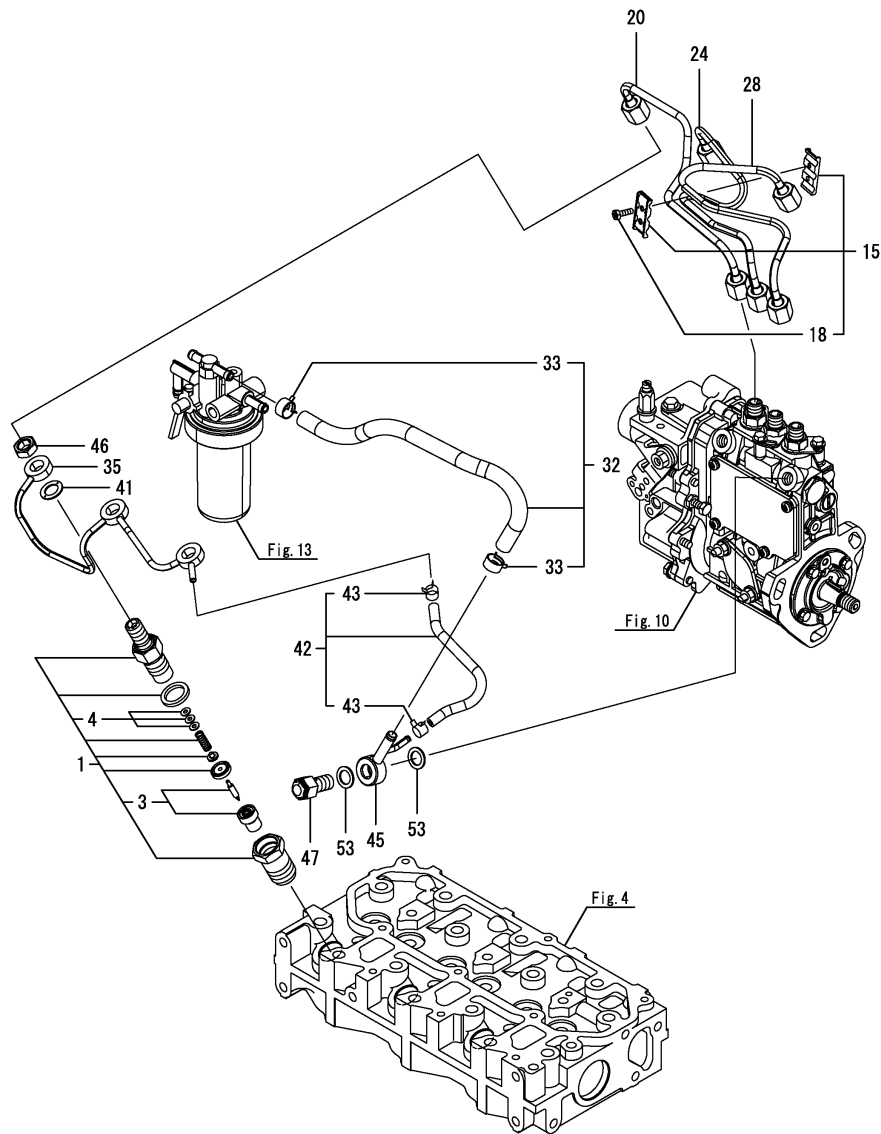
(A)=3TNV80-XPBV
(B)=
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
2	2	119717-51930	PLUG, M10	1							
3	2	119717-61050	GASKET, CASE	1							
4	2	119717-61060	COVER, GOVERNOR CASE	1							
5	2	119717-61070	GASKET, COVER	1							
12	2	129155-61460	BOLT, IDLE LIMIT	1							
14	2	129155-51280	O-RING, S6	1							
29	2	119740-61440	LEVER, CONTROL	1							
67	2	158552-61700	SHIM SET	1							
72	2	119660-61901	STOPPER, SHAFT	1							
76	2	26106-060102	BOLT, M6X 10 PLATED	1							
77	2	26366-080002	NUT, M8	1							
78	2	158552-61900	O-RING	1							
80	2	22190-100002	WASHER, SEAL 10	1							
82	2	22372-040000	PIN, SNAP 4	1							
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	26756-060002	NUT, LOCK M6	1							
121	2	119233-77932	SOLENOID, STOP	1							

Remarks
* This figure(Governor) is incorporated in the Fuel Injection Pump(Fig.10).



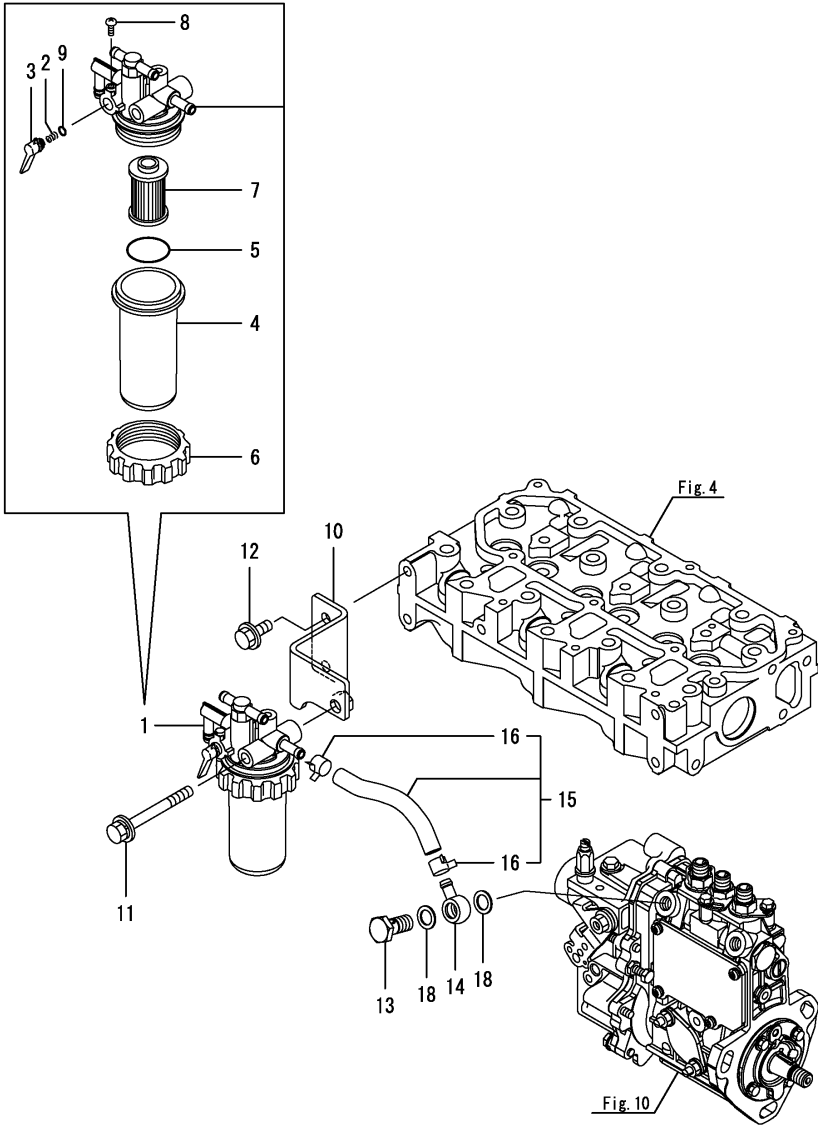
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119517-53001	VALVE ASSY,INJECTION	3							
3	2	119517-53010	NOZZLE ASSY	3							
4	2	129901-53800	SHIM SET, ADJUSTING	3							1
15	1	129150-59120	RETAINER, PIPE	1							
18	2	129150-59131	BOLT, M4X14	2							
20	1	119E10-59810	PIPE ASSY, INJECTION	1							
24	1	119E10-59820	PIPE, INJECTION NO.2	1							
28	1	119E10-59830	PIPE, INJECTION NO.3	1							
32	1	129210-59100	HOSE ASSY, FUEL L300	1							
33	2	124766-59050	CLAMP, HOSE 11.5	2							
35	1	119717-59510	PIPE ASSY, RETURN	1							
41	1	129901-59560	GASKET, FUEL RETURN	3							
42	1	119540-59570	HOSE ASSY, RETURN	1							
43	2	124066-59100	CLAMP, HOSE 8	2							
45	1	119840-59570	JOINT, OVERFLOW	1							
46	1	119620-59700	NUT, NOZZLE RETURN	3							
47	1	119813-59950	VALVE ASSY, CHECK	1							
53	1	22190-120002	WASHER, SEAL 12	2							

Remarks
(1) Spare parts.

N:Old $\begin{matrix} \text{Yes} \\ \text{No} \end{matrix}$ New, Q:Old $\begin{matrix} \text{No} \\ \text{Yes} \end{matrix}$ New, R:Old $\begin{matrix} \text{Yes} \\ \text{Yes} \end{matrix}$ New, S:Old $\begin{matrix} \text{No} \\ \text{No} \end{matrix}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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(A)=3TNV80-XPBV
(B)=
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119740-55601	STRAINER ASSY, FUEL	1							
2	2	104200-55330	SPRING, FUEL VALVE	1							
3	2	119810-55340	LEVER, FUEL	1							
4	2	121254-55510	CUP, FUEL STARINER	1							
5	2	102103-55520	O-RING, FILTER	1							
6	2	110250-55610	RING, CUP RETAINING	1							
7	2	119810-55650	ELEMENT, FUEL FILTER	1							
8	2	104200-55750	SCREW, M4	1							
9	2	24311-240100	O-RING, 1AP10A	1							
10	1	119E40-55660	BRACKET, FILTER	1							
11	1	26014-080702	BOLT, M8X 70	1							
12	1	26106-080142	BOLT, M8X 14 PLATED	2							
13	1	103854-39140	BOLT, PIPE JOINT	1							
14	1	101304-59020	JOINT, PIPE 12	1							
15	1	129210-59020	PIPE ASSY, FUEL L115	1							
16	2	124766-59050	CLAMP, HOSE 11.5	2							
18	1	22190-120002	WASHER, SEAL 12	2							

Fig.14. STARTER MOTOR (TO NOV. 2022)

(A)=3TNV80-XPBV
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119717-77010	STARTER, P1.1	1							
2	2	X0281007750	YOKE ASSY	1							
3	3	X0280996180	STARTER KIT	2							
4	2	X0285105190	HOLDER ASSY	1							
5	3	X0285205030	SPRING	4							
6	2	X0282005991	ARMATURE ASSY	1							
7	2	X0283006960	CLUTCH	1							
8	2	X4284001590	HOUSING ASSY	1							
9	3	X9491050100	BEARING, NEEDLE	1							
10	2	X0285007030	FRAME ASSY	1							
11	3	X9491040990	BEARING	1							
12	3	X0280626010	COVER	1							
13	2	X0284105040	BEARING ASSY, SUB	1							
14	3	X9491034330	BEARING	1							
15	2	X0286105010	SHAFT ASSY, SUB	1							
16	3	X9491034320	BEARING	1							
17	2	X0286305010	GEAR	3							
18	2	X0286355010	GEAR	1							
19	2	X0287405140	LEVER	1							
20	2	X2534000090	SWITCH ASSY	1							
21	2	X9055715000	RING	1							
22	2	X9490721360	RING	1							
23	2	X0280210331	NUT	1							
24	2	X9490138110	WASHER	1							
25	2	X9490138090	WASHER	1							
26	2	X9490138100	WASHER	1							
27	2	X0284525010	PLATE	1							
28	2	X9490562360	NUT	1							
29	2	X9490560750	NUT	2							
30	2	X9490423420	BOLT, THROUGH	2							
32	2	X9490065670	SCREW, M4X6	2							
33	2	X1280330020	COVER, TERMINAL	1							
34	2	X1289510130	NUT	1							
35	1	26106-100252	BOLT, M10X 25 PLATED	2							

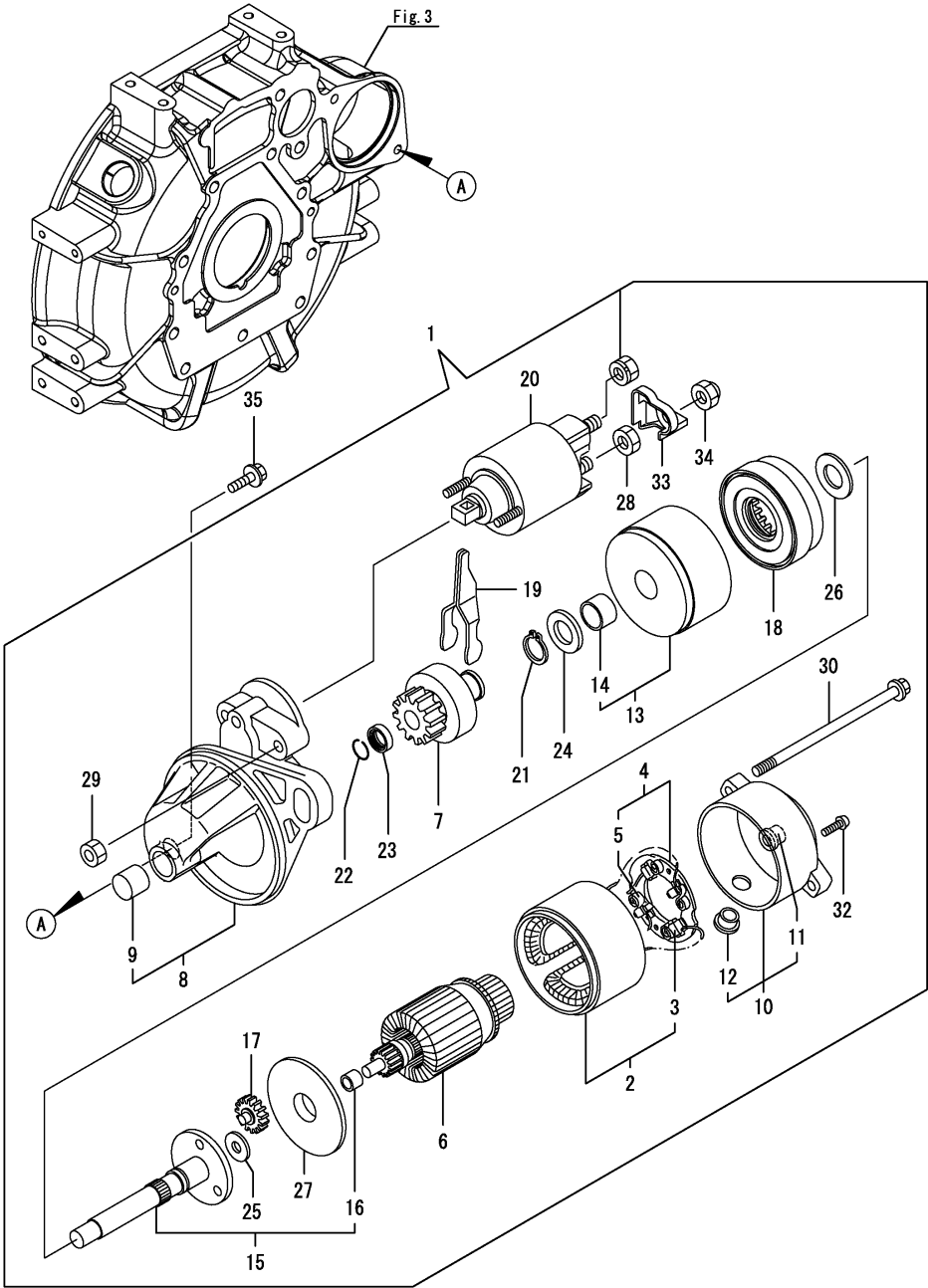
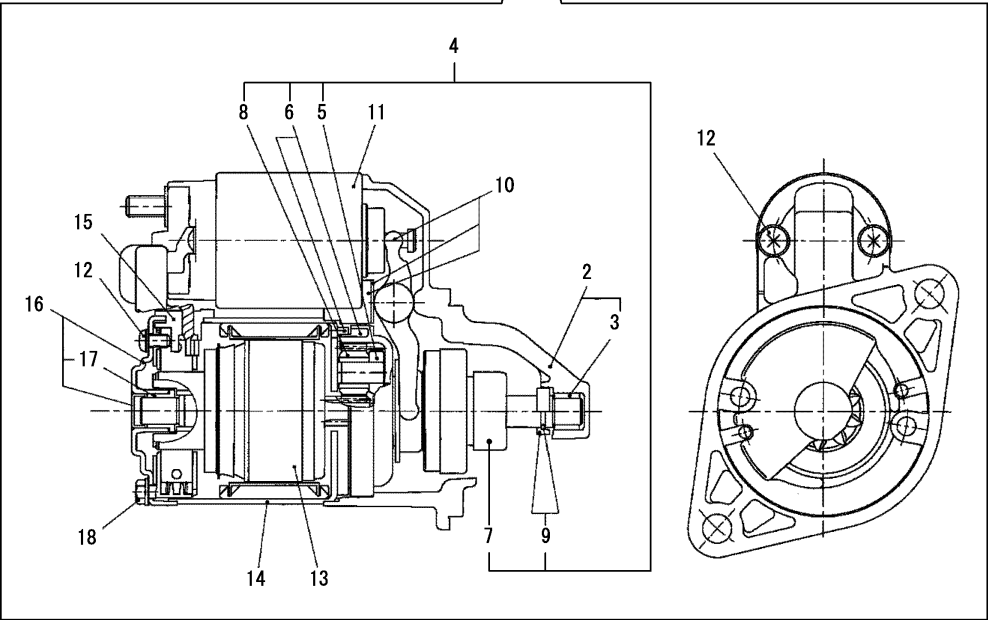
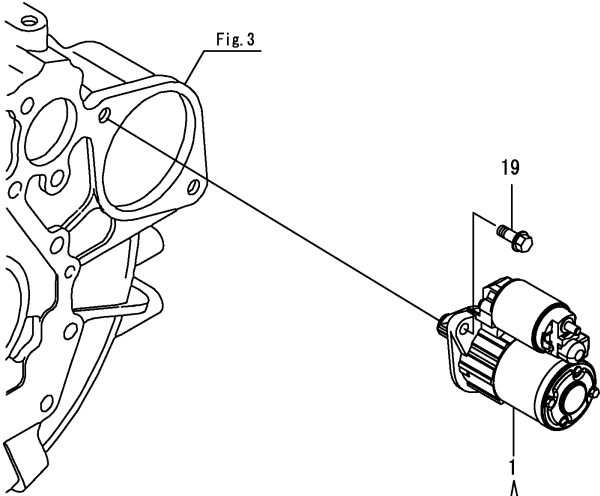


Fig.17. (14A)STARTER MOTOR(FROM NOV. 2022)

(A)=3TNV80-XPBV
(B)=
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119E10-77000	STARTER, 12V-1.1KW	1							N
	(A=*2022.11)										
2	2	119E10-77500	BRACKET ASSY, FRONT	1							
3	3	119E10-77510	METAL, FR	1							
4	2	119E10-77520	SHAFT ASSY, CLUTCH	1							
5	3	119E10-77530	SHAFT ASSY, GEAR	1							
6	3	119E10-77540	GEAR ASSY, INTERNAL	1							
7	3	119E10-77550	CLUTCH, OVER RUNNING	1							
8	3	119E10-77560	GEAR ASSY	3							
9	3	119E10-77570	STOPPER SET	1							
10	2	119E10-77580	LEVER	1							
11	2	119E10-77590	SWITCH ASSY	1							
12	2	119E10-77600	SCREW SET	1							
13	2	119E10-77610	ARMATURE	1							
14	2	119E10-77620	YOKE ASSY	1							
15	2	119E10-77630	BRUSH ASSY	1							
16	2	119E10-77640	COVER ASSY	1							
17	3	119E10-77650	METAL, RR	1							
18	2	119E10-77660	BOLT SET	1							
19	1	26106-100252	BOLT, M10X 25 PLATED	2							

(A)=3TNV80-XPBV
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129423-77200	GENERATOR, 12V-40A	1							
2	2	X9490561001	NUT	1							
3	2	119620-77380	ROTOR ASSY	1							
4	3	123501-79240	BEARING, BALL	1							
5	3	119620-79250	COVER, BEARING	1							
6	2	119620-77421	FRAME ASSY, DRIVE	1							
7	3	119620-79200	BEARING, BALL	1							
8	3	119620-79210	PLATE, RETAINER	1							
9	3	119620-79220	SCREW	4							
10	3	119620-79230	STUD	2							
11	2	119620-77440	FRAME ASSY, REAR	1							
12	2	119620-77461	PULLEY, GENERATOR	1							
13	2	119620-77471	NUT	1							
14	2	119620-77490	COLLAR	1							
15	2	129423-77710	REGULATOR ASSY	1							
16	2	119620-79260	HOLDER ASSY	1							
17	2	129052-79270	HOLDER ASSY, BRUSH	1							
18	3	119620-77480	BRUSH ASSY, SUB	2							
19	3	119620-79280	SPRING	2							
20	2	119620-79290	SCREW	6							
21	2	119620-79300	SCREW	1							
22	2	129240-79300	COVER	1							
23	2	119620-79310	BOLT	3							
24	2	119620-79320	SCREW, W/WASHER	2							
25	2	119620-79330	BOLT	2							
26	2	119620-79340	BUSH, INSULATION	1							
27	2	119620-79350	NUT	2							
28	2	119620-79360	WASHER, THRUST	1							
29	1	119740-77251	BOLT, M10X80	1							
30	1	26306-100002	NUT, M10	1							
31	1	119717-77330	ADJUSTER, BELT	1							
32	1	119810-77340	BOLT, ADJUSTER L=30	1							
33	1	26106-080202	BOLT, M8X 20 PLATED	1							

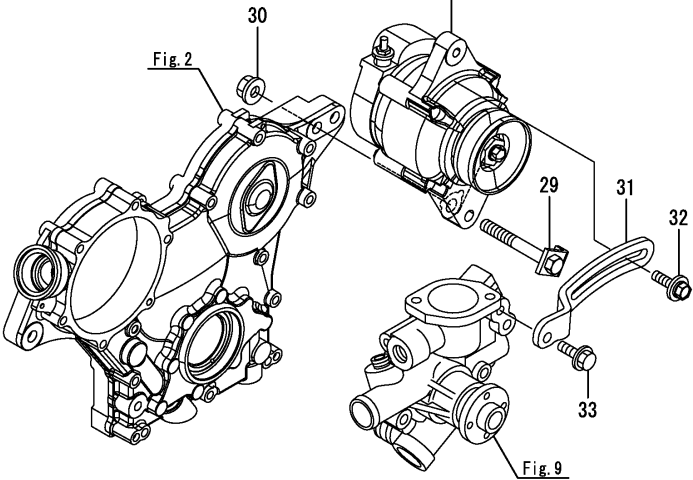
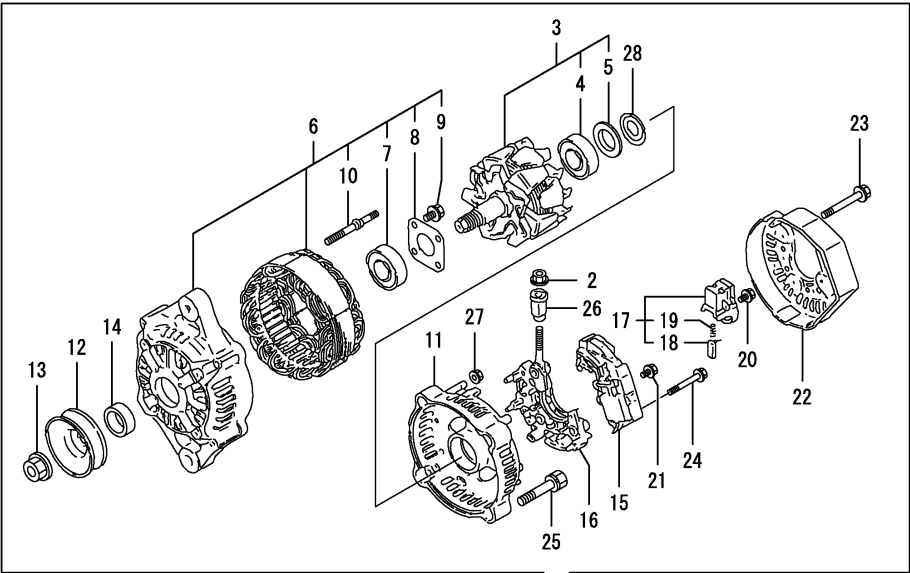
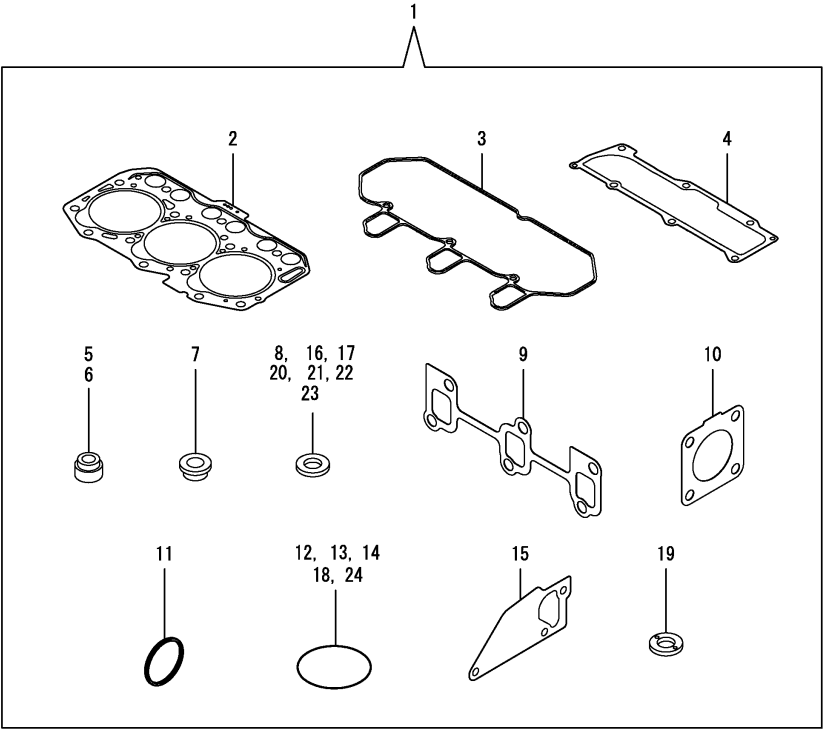


Fig.16. GASKET SET

(A)=3TNV80-XPBV
(B)=
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719E21-92601	GASKET SET	1							1
2	2	119E10-01330	GASKET SET, HEAD	1							
3	2	119718-11310	GASKET, BONNET	1							
4	2	119717-11331	GASKET, BONNET COVER	1							
5	2	119717-11340	SEAL, VALVE STEM	3							
6	2	119717-11350	SEAL, VALVE STEM	3							
7	2	129901-11450	PROTECTOR, NOZZLE	3							
8	2	119600-11460	GASKET, NOZZLE	6							
9	2	119717-13110	GASKET, MANIFOLD	1							
10	2	119515-13200	GASKET, SILENCER	1							
11	2	119C10-21930	GASKET, WASHER	1							
12	2	119624-32040	O-RING, P12.0	1							
13	2	119717-32050	O-RING, P17.0	3							
14	2	119717-32060	O-RING, P15.0	1							
15	2	119717-42020	GASKET, WATER PUMP	1							
16	2	124465-44950	GASKET, 16	1							
17	2	129150-49360	GASKET, 10	1							
18	2	121850-51960	O-RING, FUEL PUMP	1							
19	2	129901-59560	GASKET, FUEL RETURN	3							
20	2	22190-080002	WASHER, SEAL 8	4							
21	2	22190-120002	WASHER, SEAL 12	4							
22	2	22190-160002	WASHER, SEAL 16	1							
23	2	23414-080000	GASKET, 8X1.0	1							
24	2	24311-000320	O-RING, 1AP32.0	2							

Remarks
(1)Optional parts.

Parts No. Index

Parts No.	Fig. No.	Ref. No.
101304-59020	13	14
102103-55520	13	5
103854-39140	13	13
104200-55330	13	2
104200-55750	13	8
105010-11490	4	3
105311-01090	1	4
105425-01690	3	9
110250-55610	13	6
114250-39450	8	11
119131-18320	5	6
119233-44740	9	21
119233-77932	11	121
119285-01990	1	6
119285-11990	4	11
119305-35170	8	17
119417-35140	8	3 -1
119515-13200	5	8
	16	10
119517-53001	12	1
119517-53010	12	3
119540-59570	12	42
119600-11460	4	2
	16	8
119620-01750	3	3
119620-02020	1	7
119620-11280	4	26
119620-14200	6	1
119620-59700	12	46
119620-77380	15	3
119620-77421	15	6
119620-77440	15	11
119620-77461	15	12
119620-77471	15	13
119620-77480	15	18
119620-77490	15	14
119620-79200	15	7
119620-79210	15	8
119620-79220	15	9
119620-79230	15	10
119620-79250	15	5
119620-79260	15	16
119620-79280	15	19
119620-79290	15	20
119620-79300	15	21
119620-79310	15	23
119620-79320	15	24
119620-79330	15	25
119620-79340	15	26
119620-79350	15	27

Parts No.	Fig. No.	Ref. No.
119620-79360	15	28
119621-21681	7	12
119623-01250	1	5
119624-32040	2	18
	16	12
119626-07900	4	54
119660-01911	2	17
119660-61901	11	72
119717-01501	2	1
119717-01521	2	5
119717-01570	2	2
119717-01601	3	2
119717-01720	3	7
119717-01750	2	16
119717-01800	2	7
119717-02411	1	10
119717-02930	1	23
119717-03031	4	36
119717-03070	4	37
		38
119717-11131	4	15
119717-11190	4	17
119717-11200	4	21
119717-11240	4	22
119717-11260	4	25
119717-11320	4	46
119717-11331	4	47
	16	4
119717-11340	4	18
	16	5
119717-11350	4	19
	16	6
119717-11381	4	35
119717-11650	4	27
119717-11800	4	60
119717-13110	5	2
	16	9
119717-13600	5	3
119717-14400	6	2
119717-14581	6	3
119717-21200	7	4
119717-23200	7	27
119717-23601	7	28
119717-23611	7	31
119717-23910	7	30
119717-25050	6	9
119717-25101	6	10
119717-25911	6	17
119717-25930	6	15
119717-32050	2	19

Parts No.	Fig. No.	Ref. No.
119717-32050	16	13
119717-32060	8	5
	16	14
119717-32080	2	9
119717-32100	2	8
119717-32110	2	13
119717-32120	2	14
119717-35080	8	6
119717-35140	8	3
119717-39210	8	12
119717-42020	9	13
	16	15
119717-42031	9	3
119717-49800	9	23
119717-51150	6	16
119717-51420	10	63
119717-51711	10	88
119717-51750	10	89
119717-51761	10	90
119717-51860	10	104
119717-51930	11	2
119717-59510	12	35
119717-61050	11	3
119717-61060	11	4
119717-61070	11	5
119717-77010	14	1
119717-77330	15	31
119717-77801	4	58
119717-77810	4	58 -1
119717-77820	4	59
119718-11310	4	45
	16	3
119734-01590	2	3
119740-01770	3	8
119740-13100	5	1
119740-13511	5	9
119740-34801	8	1
119740-42350	9	17
119740-55601	13	1
119740-61440	11	29
119740-77251	15	29
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