

YANMAR 굴삭기**ViO10-2A
PARTS CATALOG**

0CS10-M56101EN

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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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P R E F A C E

1. This Parts Catalog carries Yanmar excavator (crawler back-hoe) VI010-2A, VI010-2B for Korea. (VI010-2A:M/# 23321~) (VI010-2B:M/# 2B501)

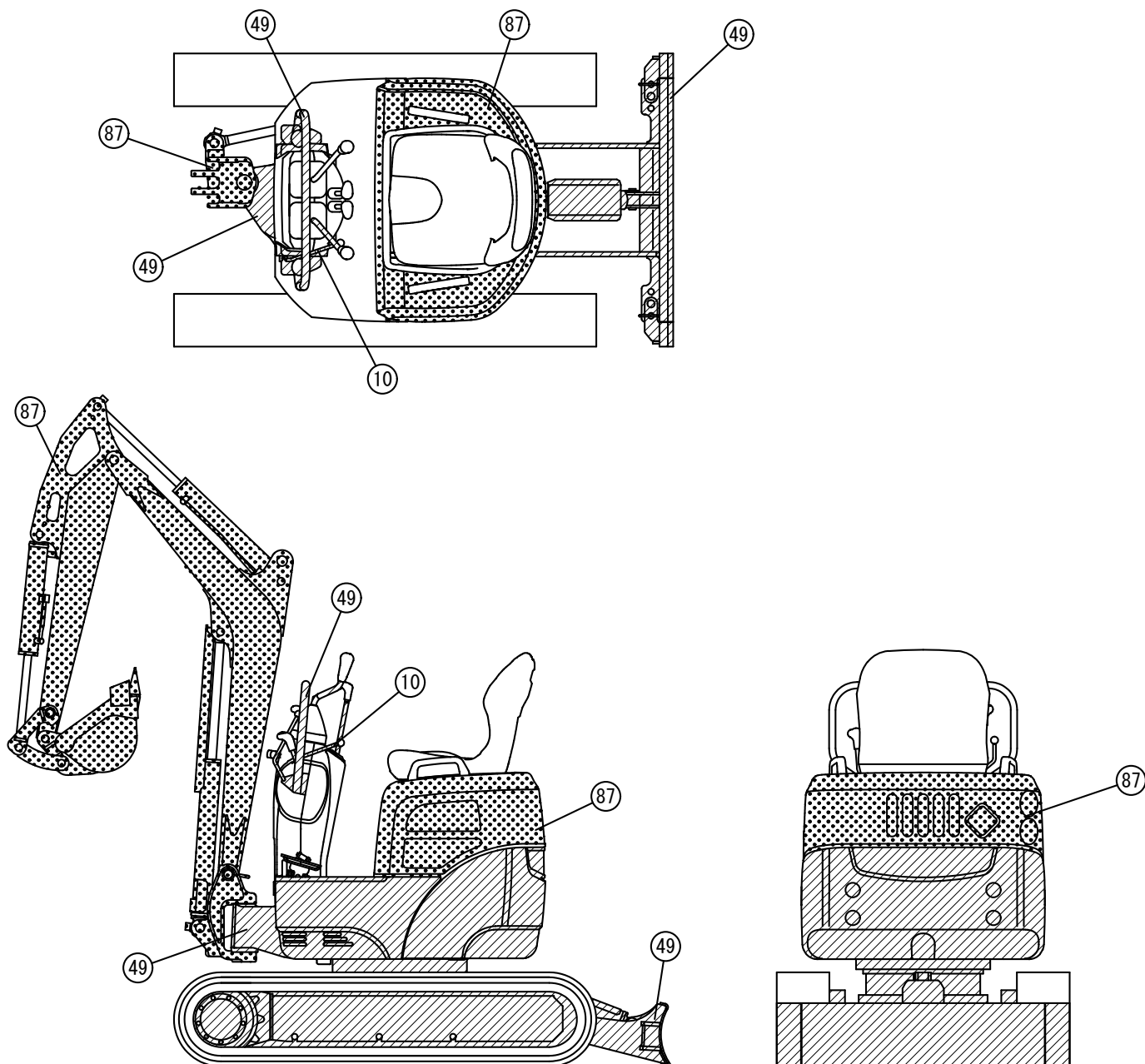
2. Parts catalog history

		Model	Published	Remarks
1st edition	Vehicle	VI010-2A	Jan. , 2011	Disuse old edition
	Engine	3TNV70-WBVB		
1st revised	Vehicle	VI010-2A, VI010-2B	May. , 2016	
	Engine	3TNV70-WBVB		

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

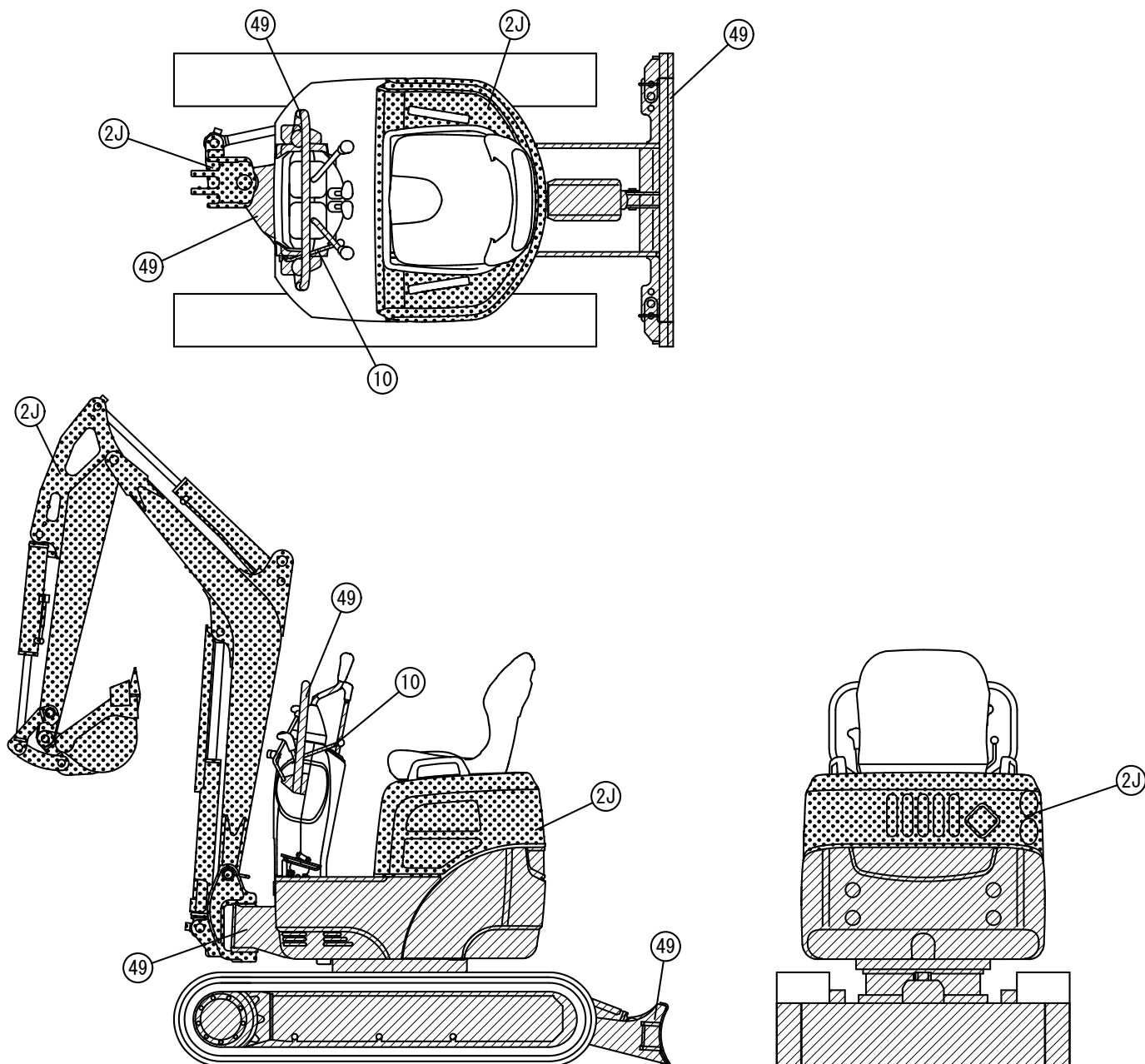
Be sure to use Yanmar Genuine Parts in your maintenance servicing of Yanmar products. Be careful not to use the simple parts available in the market, otherwise their use in repairing causes such as an early breakage, for instance.

VEHICLE PAINTED COLOR(TO M23756)



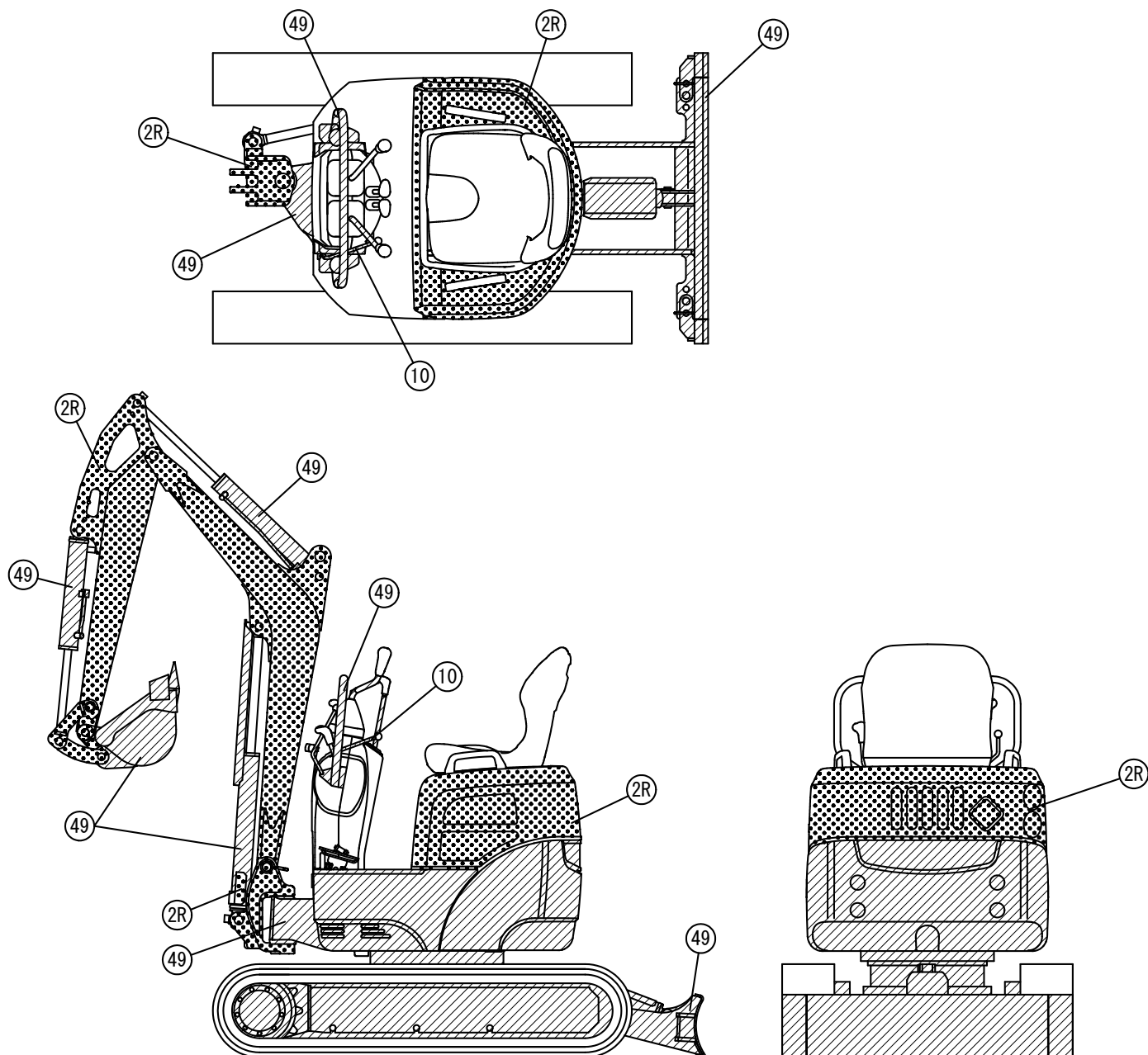
Color Code	Description	Painted Color	Paint Part No.		
			16L Can	4L Can	SPRAY
87		YANMAR New Permanent Yellow	981101-09519	977620-40870	977620-30871
49		YANMAR Navy Gray	-----	TOR-91390000	TOR-94800490
10		YANMAR Red 2	-----	TOR-91000002	TOR-94800100

VEHICLE PAINTED COLOR (FROM M23757 TO M28000)



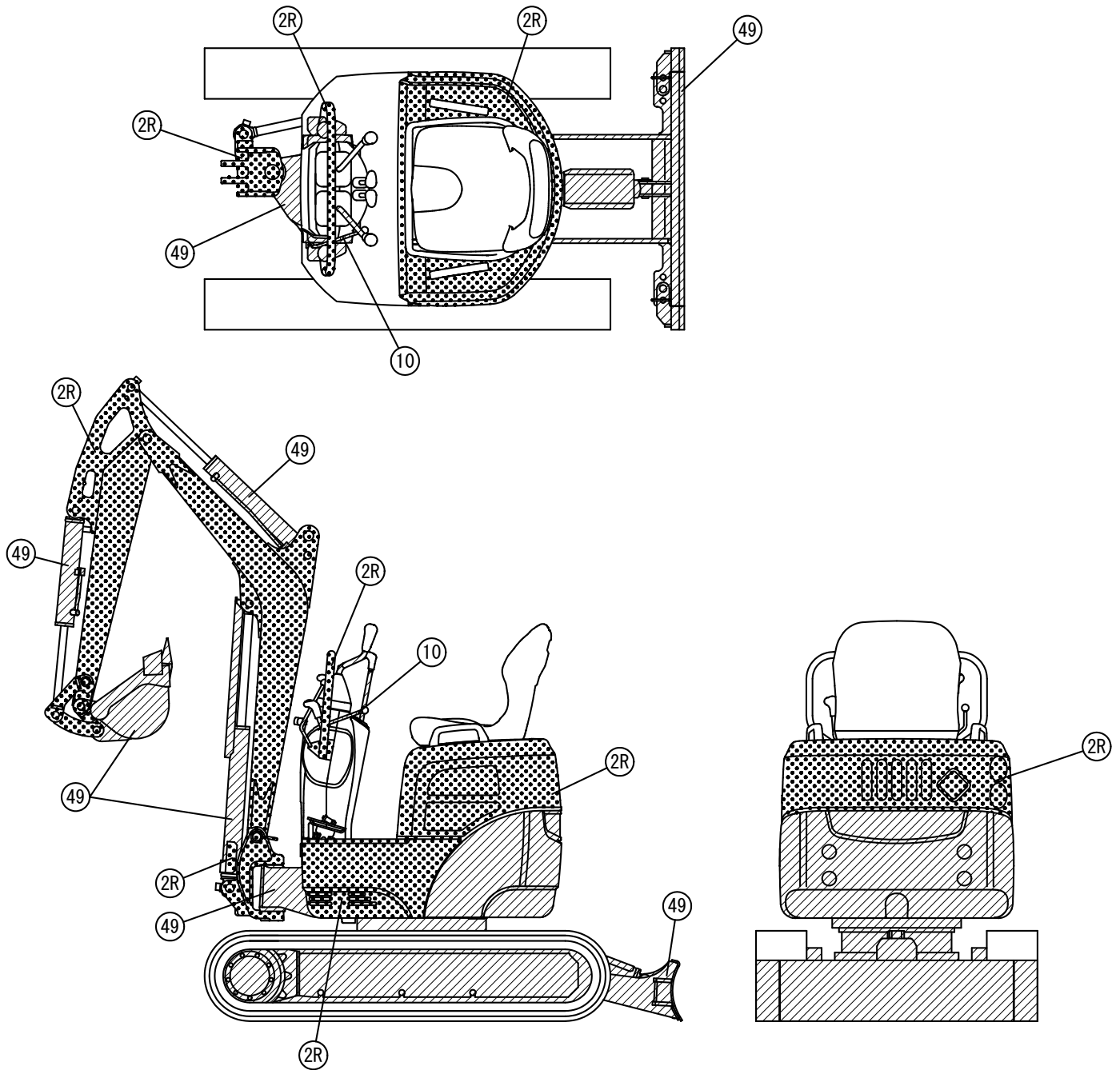
Color Code	Description	Painted Color	Paint Part No.		
			16L Can	4L Can	SPRAY
2J		YANMAR New Permanent Yellow 2	981101-09520	977620-40871	977620-30872
49		YANMAR Navy Gray	-----	TOR-91390000	TOR-94800490
10		YANMAR Red 2	-----	TOR-91000002	TOR-94800100

VEHICLE PAINTED COLOR (FROM M28001 TO M2F000)



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

VEHICLE PAINTED COLOR (FROM M2F001)



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

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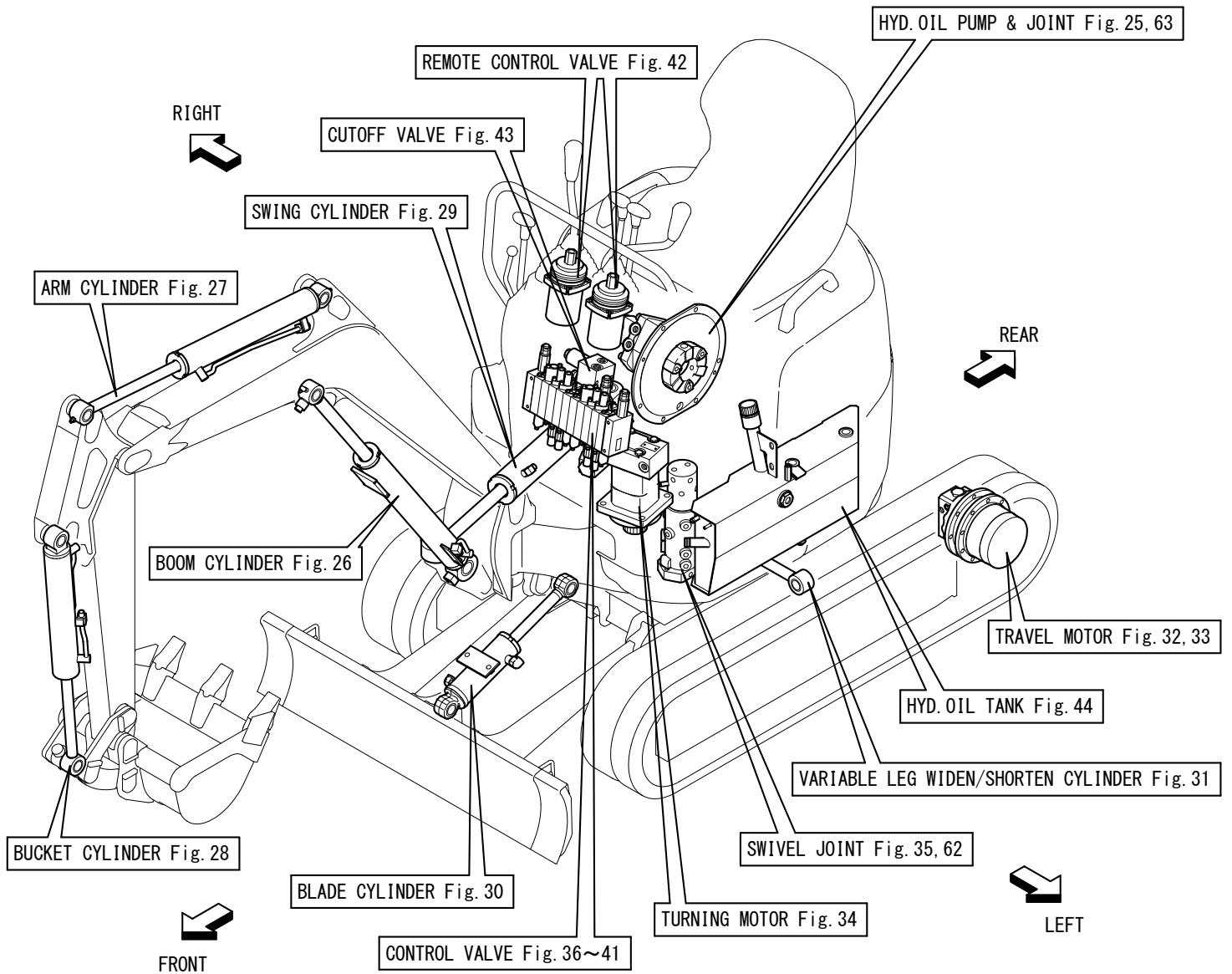
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- 24. BONNET

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Fig. No. Fig. Name

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- 54. CONTROL PIPING(DIRECT SPEC.)
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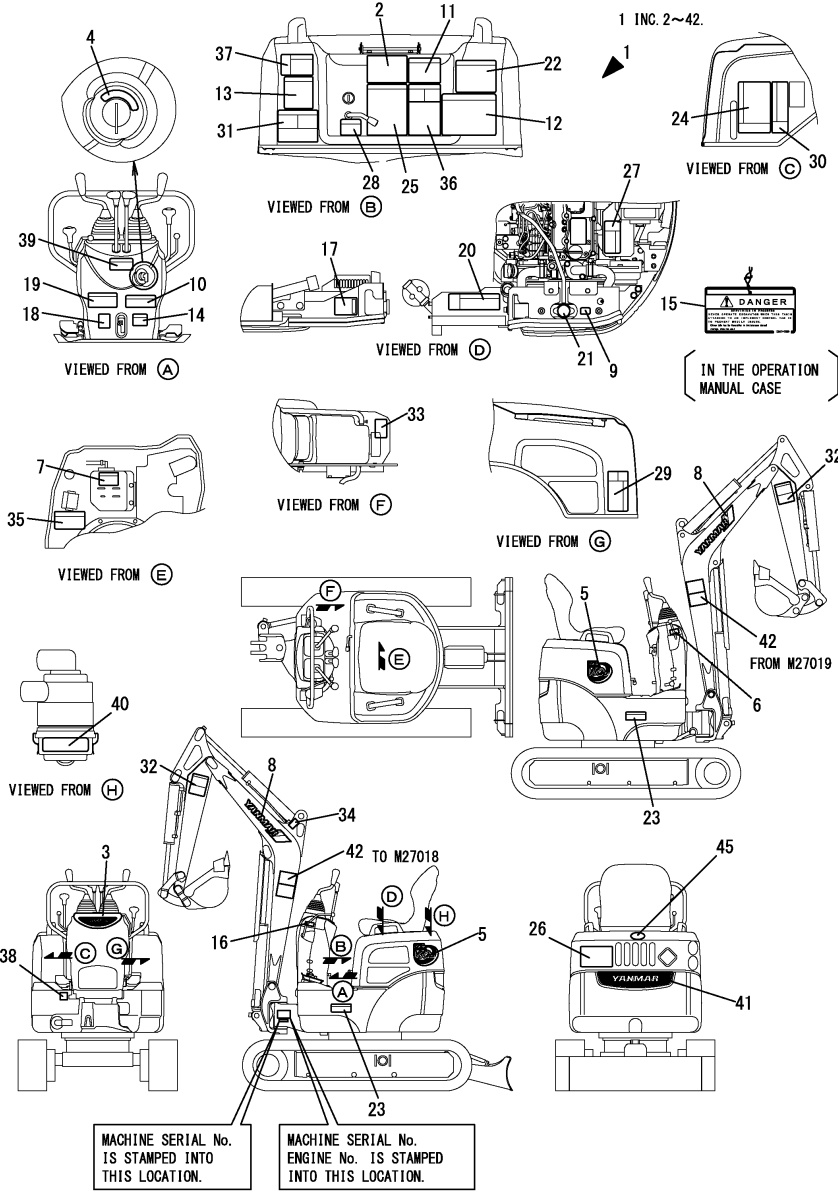
IMPLEMENT

- 56. BOOM BRACKET
- 57. BOOM
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- 60. BUCKET
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OPTIONAL & KIT

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- 73. HYD. OIL PUMP EXCHANGE KIT(OPTIONAL)

Fig.1. LABEL(VIO10-2A)(TO M2F000)

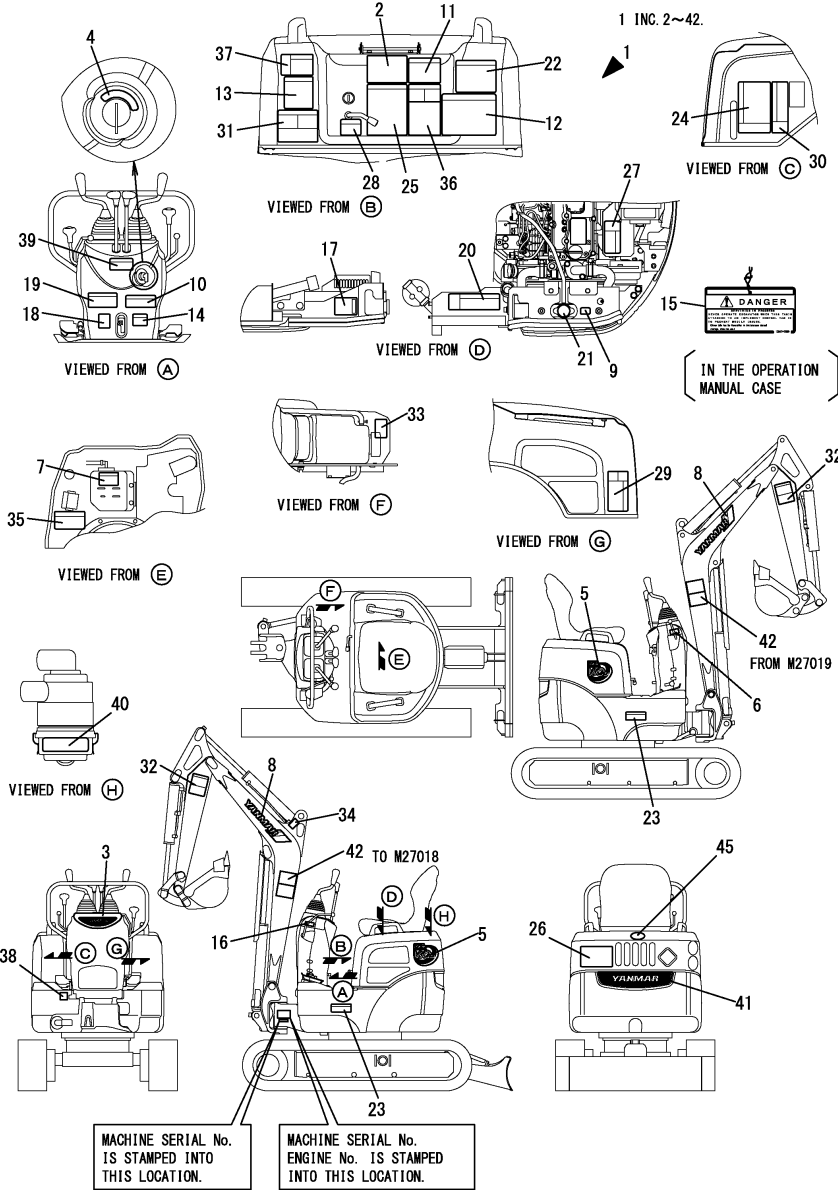


(A)=VIO10-2A(KR)
(B)=VIO10-2B(KR)
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	772A54-03130	LABEL SET V10-2A(EX)	1							1
1-1	1	772A54-03131	LABEL SET V10-2A(EX)	1						S	2
(A=M/#22701)											
1-2	1	772A54-03130	LABEL SET V10-2A(EX)	1						S	1
(A=M/#24177)											
1-3	1	172A54-03510	LABEL SET V10-2A(KR)	1						S	3
(A=M27015)											
1-4	1	172A54-03511	SET,LABEL VIO10-2A(K	1						S	
(A=M28001)											
2	2	172446-03440	LABEL,PATTERN EP	1							
3	2	172480-03150	LABEL,FRENT EMBLEM	1							
4	2	172A64-03700	LABEL, START SWITCH	1							
5	2	172480-03170	LABEL,MODEL	2							
5-1	2	172480-03471	LABEL, MODEL	2							N
(A=M/#22501)											
5-2	2	172A54-03170	LABEL,MODEL	2							N
(A=M28001)											
6	2	172448-03180	LABEL,W/S OPERATION	1							
7	2	172A38-03200	LABEL, SUB-TANK US	1							
7-1	2	172A38-03201	LABEL, SUB TANK	1							N
(A=M/#22955)											
8	2	172186-03200	LABEL,BRAND	2							
8-1	2	172A55-03310	LABEL, BRAND 450	2							N
(A=M/#22955)											
8-2	2	172A86-03310	LABEL,YANMAR	2							N
(A=M28001)											
9	2	172A38-03210	LABEL,ANTI-FREEZING	1							
9-1	2	172A38-03211	LABEL, ANTI-FREEZING	1							N
(A=M/#22955)											
10	2	172A54-03210	LABEL,SPECIFICATION	1							
10-1	2	172A54-03211	LABEL,SPECIFICATION	1							S
(A=M27015)											
10-2	1	172A54-03212	LABEL,SPECIFICATION	1							N
(A=M28675)											
11	2	172480-03220	LABEL,GREASING	1							
12	2	172A54-03230	LABEL,OIL&WATER EX	1							1
12-1	2	172A54-03231	LABEL,OIL&WATER EX	1							S 2
(A=M/#22701)											
12-2	2	172A54-03250	LABEL,OIL&WATER EX N	1							S 1
(A=M/#24177)											
13	2	172437-03242	LABEL, CRAWLER	1							
14	2	172433-03251	LABEL, SWING LOCK US	1							
15	2	172437-03250	TAG ASSY, CAUTION	1							
15-1	2	172437-03251	TAG ASSY, CAUTION	1							N
(A=M/#22751)											
15-2	2	172437-03252	TAG ASSY, CAUTION	1							N
(A=M/#22955)											
16	2	172183-03280	LABEL, LOCK	1							
17	2	172463-03290	LABEL, HYD.OIL	1							
18	2	172137-03300	LABEL, TURNING LOCK	1							
19	2	172437-03311	LABEL, SLOPE US	1							

Fig.1. LABEL(VIO10-2A)(TO M2F000)



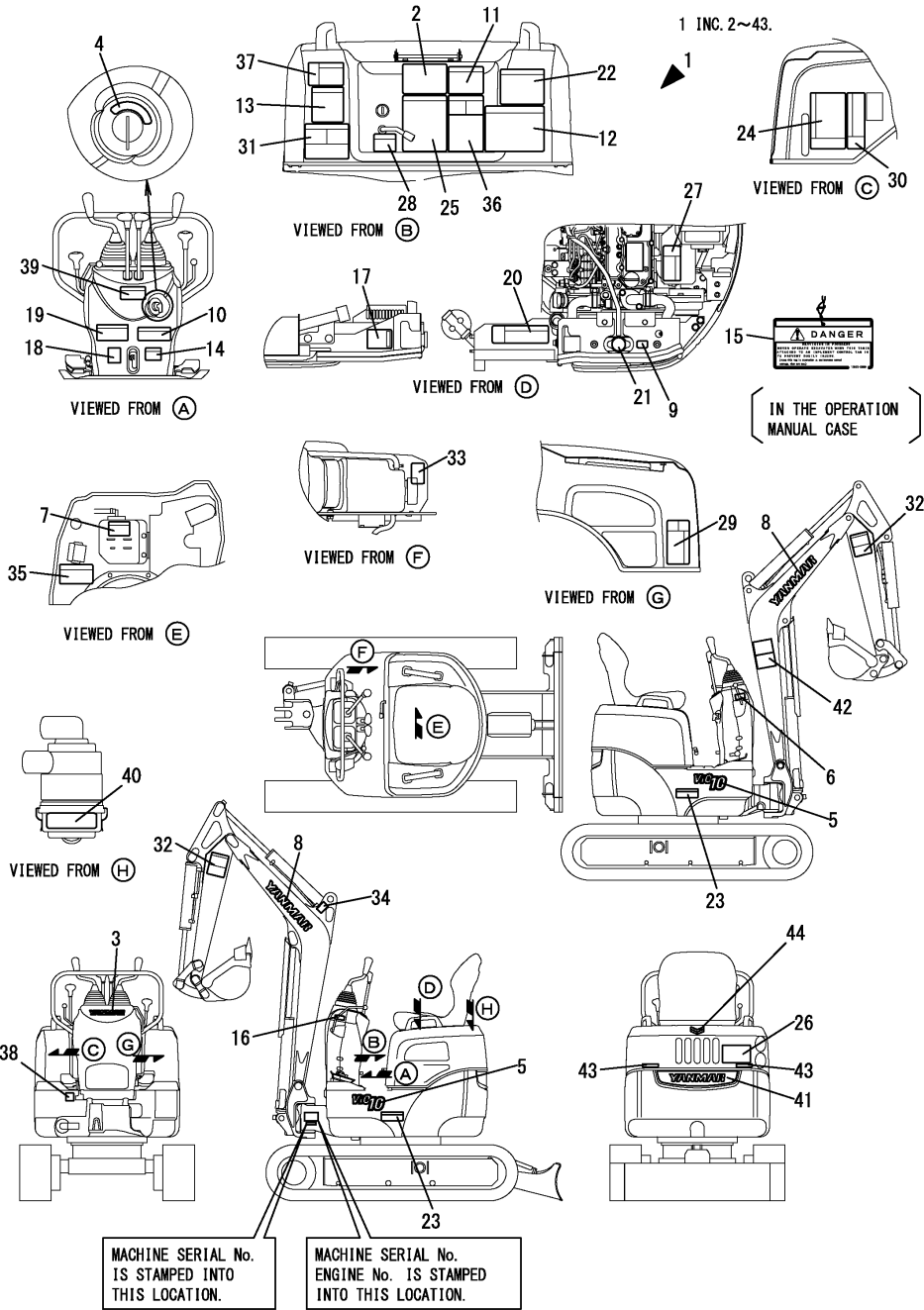
(A)=VIO10-2A(KR)
(B)=VIO10-2B(KR)
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
19-1	2	172437-03312	LABEL, SLOPE	1							N
(A=M/#22751)											
20	2	172437-03322	LABEL, RESEVOIR	1							
21	2	172462-03320	LABEL, RADIATOR	1							
22	2	172437-03342	LABEL, TRANSPORT US	1							
22-1	2	172437-03343	LABEL, TRANSPORT	1							N
(A=M/#22955)											
23	2	172437-03352	LABEL, CYLINDER	2							
24	2	172437-03361	LABEL, BATTERY	1							
25	2	172437-03372	LABEL, NEUTRAL	1							
26	2	172437-03381	LABEL, SWING AREA	1							
26-1	2	172A64-03380	LABEL, SWING AREA US	1							N
(A=M27015)											
27	2	172437-03391	LABEL, RADIATOR	1							
28	2	172437-03402	LABEL, ENGINE COVER	1							
29	2	172A36-03411	LABEL, ENGINE ROOM	1							
30	2	172437-03422	LABEL, MUFFLER	1							
31	2	172437-03432	LABEL, STEERING	1							
32	2	172437-03461	LABEL, BOOM	2							
33	2	172437-03501	LABEL, FUEL	1							
34	2	172437-03511	LABEL, HOOK	1							
35	2	172446-03632	LABEL, HUSE US	1							
36	2	172446-03652	LABEL, VARIABLE US	1							
37	2	172A29-03760	LABEL, MANUAL US	1							
38	2	172A29-03800	LABEL, GREASE US	1							
39	2	172A29-03810	LABEL, LEVER LOCK US	1							
40	2	172125-03951	LABEL, AIR CLEANER	1							
41	2	172480-03160	LABEL, REAR EMBLEM	1							
42	2	172446-03621	LABEL, LIFT E	1							
45	1	172A54-03050	EMBLEM ASSY	1							W
(A=M28001)											

Remarks
(1)Traval motor(F)
(2)Traval motor(K)
(3)Traval motor(F), AP4

Fig.71. (1A)LABEL(VIO10-2A)(FROM M2F001)

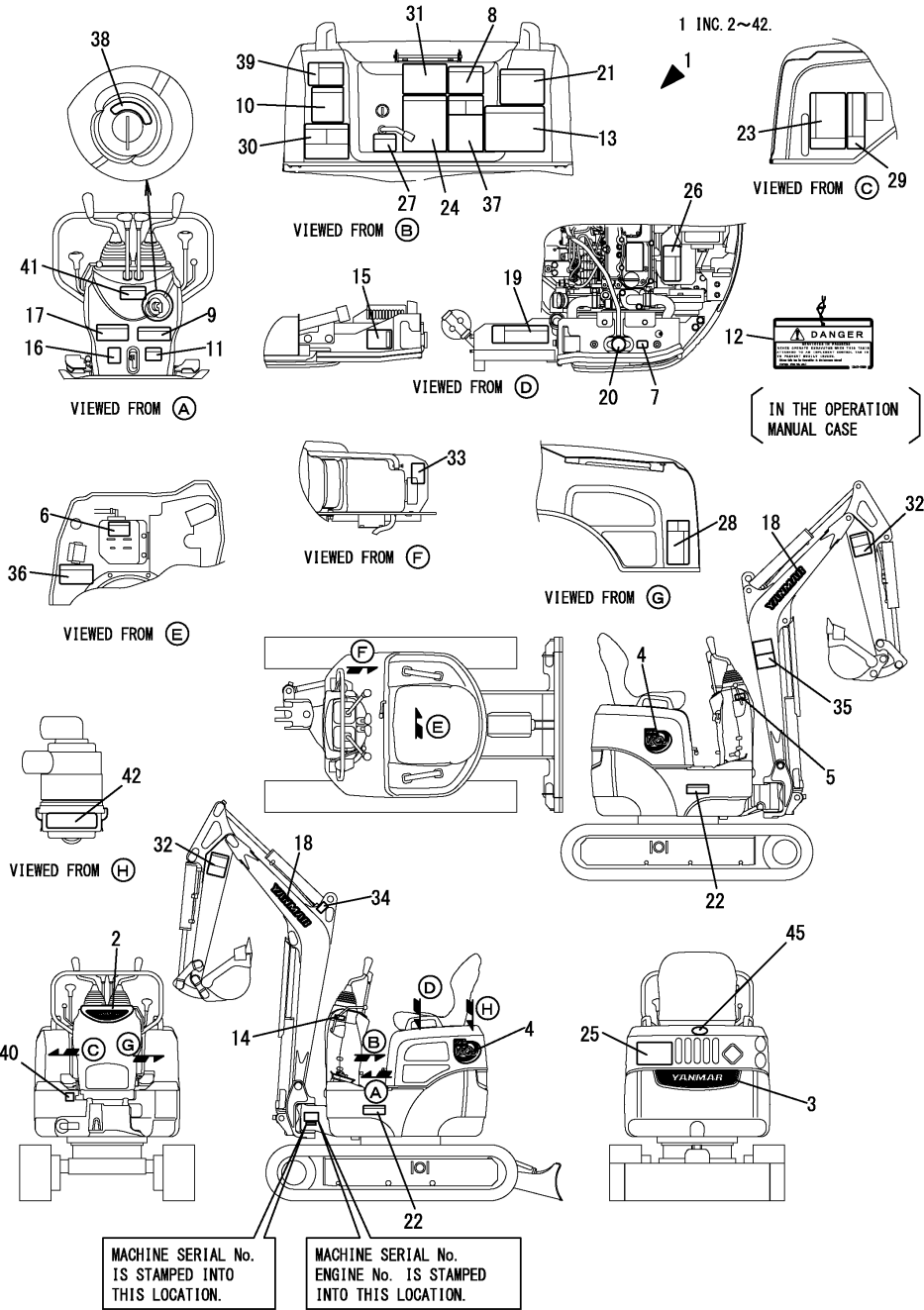


(A)=VIO10-2A(KR)
(B)=VIO10-2B(KR)
(C)=

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

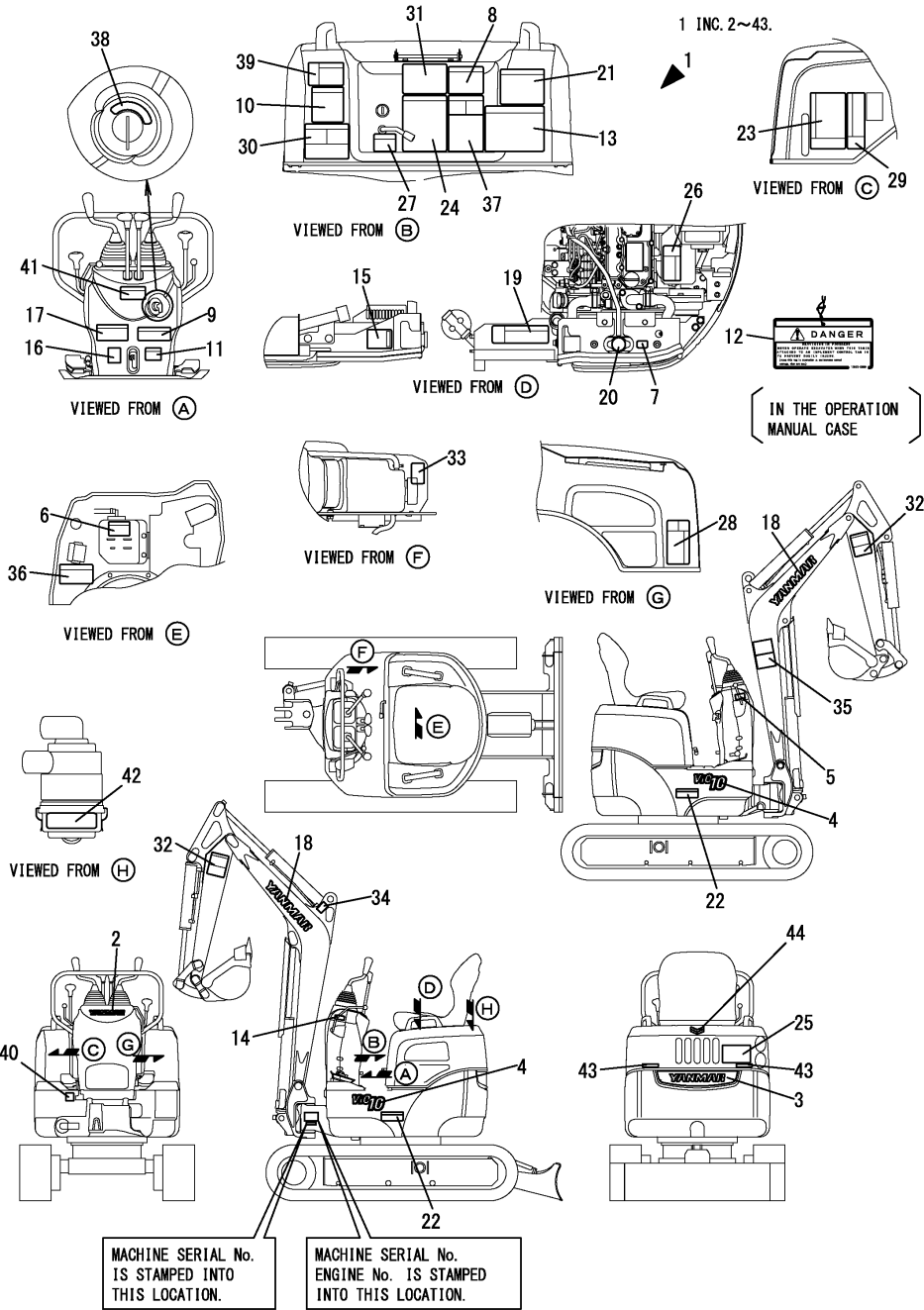
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A54-03512	LABEL SET,VIO10-2A K	1							1
2	2	172446-03440	LABEL,PATTERN EP	1							
3	2	172A86-03720	LABEL,YANMAR 200 B	1							
4	2	172A64-03700	LABEL, START SWITCH	1							
5	2	172A54-03470	LABEL,MODEL	2							
6	2	172448-03180	LABEL,W/S OPERATION	1							
7	2	172A38-03201	LABEL, SUB TANK	1							
8	2	172A86-03770	LABEL,YANMAR 355 B	2							
9	2	172A38-03211	LABEL, ANTI-FREEZING	1							
10	1	172A54-03212	LABEL,SPECIFICATION	1							
11	2	172480-03220	LABEL,GREASING	1							
12	2	172A54-03250	LABEL,OIL&WATER EX N	1							1
13	2	172437-03242	LABEL, CRAWLER	1							
14	2	172433-03251	LABEL, SWING LOCK US	1							
15	2	172437-03252	TAG ASSY, CAUTION	1							
16	2	172183-03280	LABEL, LOCK	1							
17	2	172463-03290	LABEL, HYD.OIL	1							
18	2	172137-03300	LABEL, TURNING LOCK	1							
19	2	172437-03312	LABEL, SLOPE	1							
20	2	172437-03322	LABEL, RESEVOIR	1							
21	2	172462-03320	LABEL, RADIATOR	1							
22	2	172437-03343	LABEL, TRANSPORT	1							
23	2	172437-03352	LABEL, CYLINDER	2							
24	2	172437-03361	LABEL, BATTERY	1							
25	2	172437-03372	LABEL, NEUTRAL	1							
26	2	172A64-03380	LABEL,SWING AREA US	1							
27	2	172437-03391	LABEL, RADIATOR	1							
28	2	172437-03402	LABEL, ENGINE COVER	1							
29	2	172A36-03411	LABEL, ENGINE ROOM	1							
30	2	172437-03422	LABEL, MUFFLER	1							
31	2	172437-03432	LABEL, STEERING	1							
32	2	172437-03461	LABEL, BOOM	2							
33	2	172437-03501	LABEL, FUEL	1							
34	2	172437-03511	LABEL, HOOK	1							
35	2	172446-03632	LABEL, HUSE US	1							
36	2	172446-03652	LABEL, VARIABLE US	1							
37	2	172A29-03760	LABEL, MANUAL US	1							
38	2	172A29-03800	LABEL, GREASE US	1							
39	2	172A29-03810	LABEL, LEVER LOCK US	1							
40	2	172125-03951	LABEL, AIR CLEANER	1							
41	2	172A54-03790	LABEL,REAR	1							
42	2	172446-03621	LABEL,LIFT E	1							
43	2	172B04-03970	LABEL, REFLECTOR S	2							
44	1	172A54-03010	EMBLEM ASSY,FY S3 Y	1							

Fig.68. (1B)LABEL(VIO10-2B)(TO M2F000)



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A54-03520	LABEL SET, VIO10-2BK		1						
2	2	172480-03150	LABEL,FRENT EMBLEM		1						
3	2	172480-03160	LABEL, REAR EMBLEM		1						
4	2	172A54-03170	LABEL,MODEL		2						
5	2	172448-03180	LABEL,W/S OPERATION		1						
6	2	172A38-03201	LABEL, SUB TANK		1						
7	2	172A38-03211	LABEL, ANTI-FREEZING		1						
8	2	172480-03220	LABEL,GREASING		1						
9	2	172A54-03220	LABEL,SPECIFICATION		1						
10	2	172437-03242	LABEL, CRAWLER		1						
11	2	172433-03251	LABEL, SWING LOCK US		1						
12	2	172437-03252	TAG ASSY, CAUTION		1						
13	2	172A54-03250	LABEL,OIL&WATER EX N		1						
14	2	172183-03280	LABEL, LOCK		1						
15	2	172463-03290	LABEL, HYD.OIL		1						
16	2	172137-03300	LABEL, TURNING LOCK		1						
17	2	172437-03312	LABEL, SLOPE		1						
18	2	172A86-03310	LABEL,YANMAR		2						
19	2	172437-03322	LABEL, RESEVOIR		1						
20	2	172462-03320	LABEL, RADIATOR		1						
21	2	172437-03343	LABEL, TRANSPORT		1						
22	2	172437-03352	LABEL, CYLINDER		2						
23	2	172437-03361	LABEL, BATTERY		1						
24	2	172437-03372	LABEL, NEUTRAL		1						
25	2	172A64-03380	LABEL,SWING AREA US		1						
26	2	172437-03391	LABEL, RADIATOR		1						
27	2	172437-03402	LABEL, ENGINE COVER		1						
28	2	172A36-03411	LABEL, ENGINE ROOM		1						
29	2	172437-03422	LABEL, MUFFLER		1						
30	2	172437-03432	LABEL, STEERING		1						
31	2	172446-03440	LABEL,PATTERN EP		1						
32	2	172437-03461	LABEL, BOOM		2						
33	2	172437-03501	LABEL, FUEL		1						
34	2	172437-03511	LABEL, HOOK		1						
35	2	172446-03621	LABEL,LIFT E		1						
36	2	172446-03632	LABEL, HUSE US		1						
37	2	172446-03652	LABEL, VARIABLE US		1						
38	2	172A64-03700	LABEL, START SWITCH		1						
39	2	172A29-03760	LABEL, MANUAL US		1						
40	2	172A29-03800	LABEL, GREASE US		1						
41	2	172A29-03810	LABEL, LEVER LOCK US		1						
42	2	172125-03951	LABEL, AIR CLEANER		1						
45	1	172A54-03050	EMBLEM ASSY		1						

Fig.72. (1C)LABEL(VIO10-2B)(FROM M2F001)



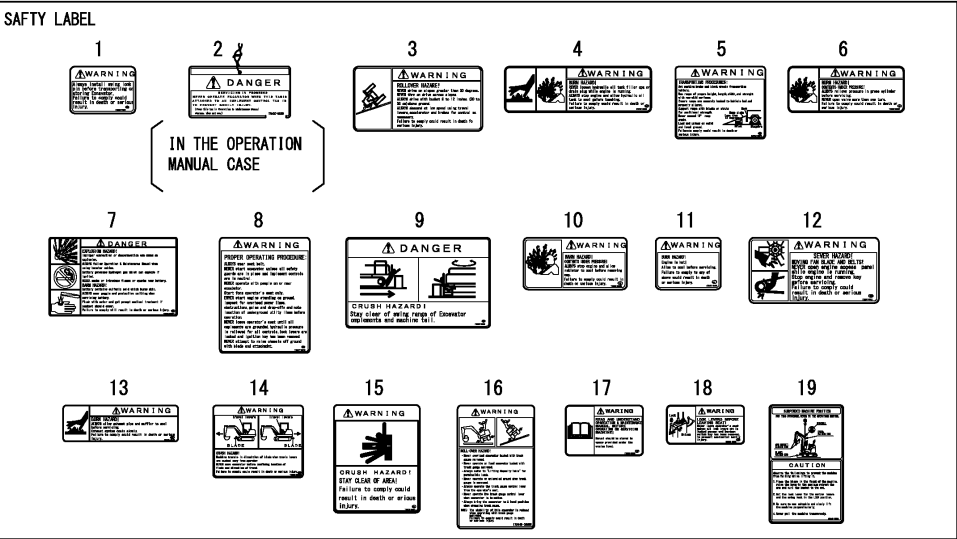
(A)=VIO10-2A(KR)
(B)=VIO10-2B(KR)
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A54-03521	LABEL SET, VIO10-2BK		1						
2	2	172A86-03720	LABEL, YANMAR 200 B		1						
3	2	172A54-03790	LABEL, REAR		1						
4	2	172A54-03470	LABEL, MODEL VIO10		2						
5	2	172448-03180	LABEL, W/S OPERATION		1						
6	2	172A38-03201	LABEL, SUB TANK		1						
7	2	172A38-03211	LABEL, ANTI-FREEZING		1						
8	2	172480-03220	LABEL, GREASING		1						
9	2	172A54-03220	LABEL, SPECIFICATION		1						
10	2	172437-03242	LABEL, CRAWLER		1						
11	2	172433-03251	LABEL, SWING LOCK US		1						
12	2	172437-03252	TAG ASSY, CAUTION		1						
13	2	172A54-03250	LABEL, OIL&WATER EX N		1						
14	2	172183-03280	LABEL, LOCK		1						
15	2	172463-03290	LABEL, HYD.OIL		1						
16	2	172137-03300	LABEL, TURNING LOCK		1						
17	2	172437-03312	LABEL, SLOPE		1						
18	2	172A86-03770	LABEL, YANMAR 355 B		2						
19	2	172437-03322	LABEL, RESEVOIR		1						
20	2	172462-03320	LABEL, RADIATOR		1						
21	2	172437-03343	LABEL, TRANSPORT		1						
22	2	172437-03352	LABEL, CYLINDER		2						
23	2	172437-03361	LABEL, BATTERY		1						
24	2	172437-03372	LABEL, NEUTRAL		1						
25	2	172A64-03380	LABEL, SWING AREA US		1						
26	2	172437-03391	LABEL, RADIATOR		1						
27	2	172437-03402	LABEL, ENGINE COVER		1						
28	2	172A36-03411	LABEL, ENGINE ROOM		1						
29	2	172437-03422	LABEL, MUFFLER		1						
30	2	172437-03432	LABEL, STEERING		1						
31	2	172446-03440	LABEL, PATTERN EP		1						
32	2	172437-03461	LABEL, BOOM		2						
33	2	172437-03501	LABEL, FUEL		1						
34	2	172437-03511	LABEL, HOOK		1						
35	2	172446-03621	LABEL, LIFT E		1						
36	2	172446-03632	LABEL, HUSE US		1						
37	2	172446-03652	LABEL, VARIABLE US		1						
38	2	172A64-03700	LABEL, START SWITCH		1						
39	2	172A29-03760	LABEL, MANUAL US		1						
40	2	172A29-03800	LABEL, GREASE US		1						
41	2	172A29-03810	LABEL, LEVER LOCK US		1						
42	2	172125-03951	LABEL, AIR CLEANER		1						
43	2	172B04-03970	LABEL, REFLECTOR S		2						
44	1	172A54-03010	EMBLEM ASSY		1						

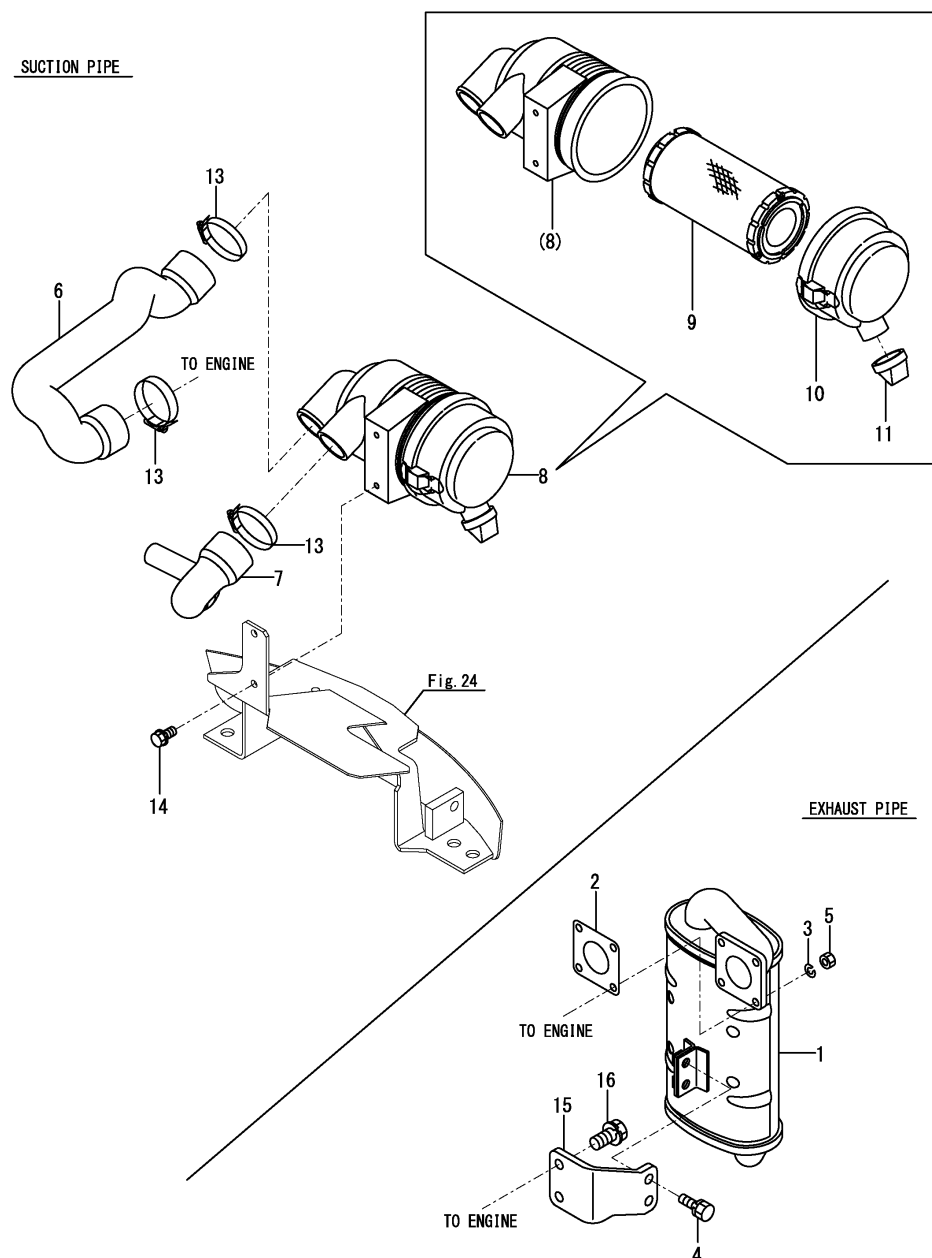
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(B)=VIO10-2B(KR)
(C)=

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



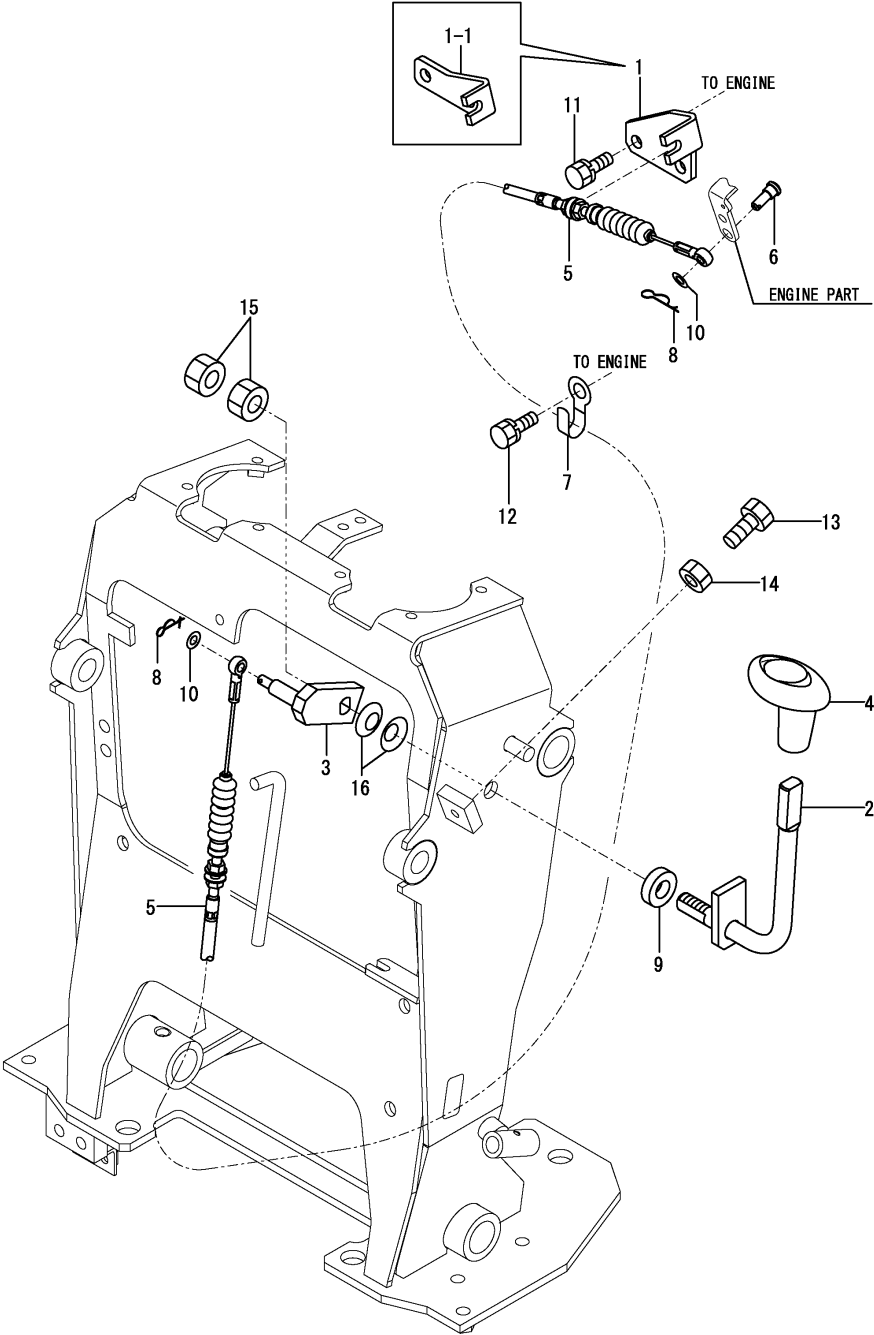
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172433-03251	LABEL, SWING LOCK US	1	1						
2	1	172437-03250	TAG ASSY, CAUTION	1							
2-1	1	172437-03251	TAG ASSY, CAUTION	1							N
2-2	(A=M/#22751)	1 172437-03252	TAG ASSY, CAUTION	1	1						N
	(A=M/#22955)										
3	1	172437-03311	LABEL, SLOPE US	1							
3-1	1	172437-03312	LABEL, SLOPE	1	1						N
	(A=M/#22751)										
4	1	172437-03322	LABEL, RESEVOIR	1	1						
5	1	172437-03342	LABEL, TRANSPORT US	1							
5-1	1	172437-03343	LABEL, TRANSPORT	1	1						N
	(A=M/#22955)										
6	1	172437-03352	LABEL, CYLINDER	2	2						
7	1	172437-03361	LABEL, BATTERY	1	1						
8	1	172437-03372	LABEL, NEUTRAL	1	1						
9	1	172437-03381	LABEL, SWING AREA	1							
9-1	1	172A64-03380	LABEL, SWING AREA US	1	1						N
	(A=M27015)										
10	1	172437-03391	LABEL, RADIATOR	1	1						
11	1	172437-03402	LABEL, ENGINE COVER	1	1						
12	1	172A36-03411	LABEL, ENGINE ROOM	1	1						
13	1	172437-03422	LABEL, MUFFLER	1	1						
14	1	172437-03432	LABEL, STEERING	1	1						
15	1	172437-03461	LABEL, BOOM	2	2						
16	1	172446-03652	LABEL, VARIABLE US	1	1						
17	1	172A29-03760	LABEL, MANUAL US	1	1						
18	1	172A29-03810	LABEL, LEVER LOCK US	1	1						
19	1	172446-03621	LABEL, LIFT E	1	1						

N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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No.	Lev.	Parts No.	Description	(A)	(B)	C'ty (C) (D) (E) (F)	I R
1	1	172A54-11310	SILENCER ASSY	1	1		
2	1	124701-11911	GASKET, SILENCER	1	1		
3	1	22217-080000	WASHER, SPRING 8	4	4		
4	1	26013-100252	BOLT, M10X 25	2	2		
5	1	26716-080002	NUT, M8	4	4		
6	1	172A54-11500	HOSE A,AIR CLEANER	1	1		
7	1	172A54-11510	HOSE B,AIR CLEANER	1	1		
8	1	172A20-11550	CLEANER ASSY, AIR	1	1		
9	2	119515-12520	ELEMENT, AIR CLEANER	1			
9-1	2	119655-12560	ELEMENT	1	1		R
		(A=M28378)					
10	2	119655-12570	COVER ASSY	1	1		
11	2	119808-12540	VALVE, UNLOAD	1	1		
13	1	23000-054000	CLAMP, 54	3	3		
14	1	26013-080162	BOLT, M8X 16	2	2		
15	1	172A54-11320	STAY, SILENCER	1	1		W
		(A=M/#23145)					
16	1	26013-100352	BOLT, M10X 35	2	2		W
		(A=M/#23145)					

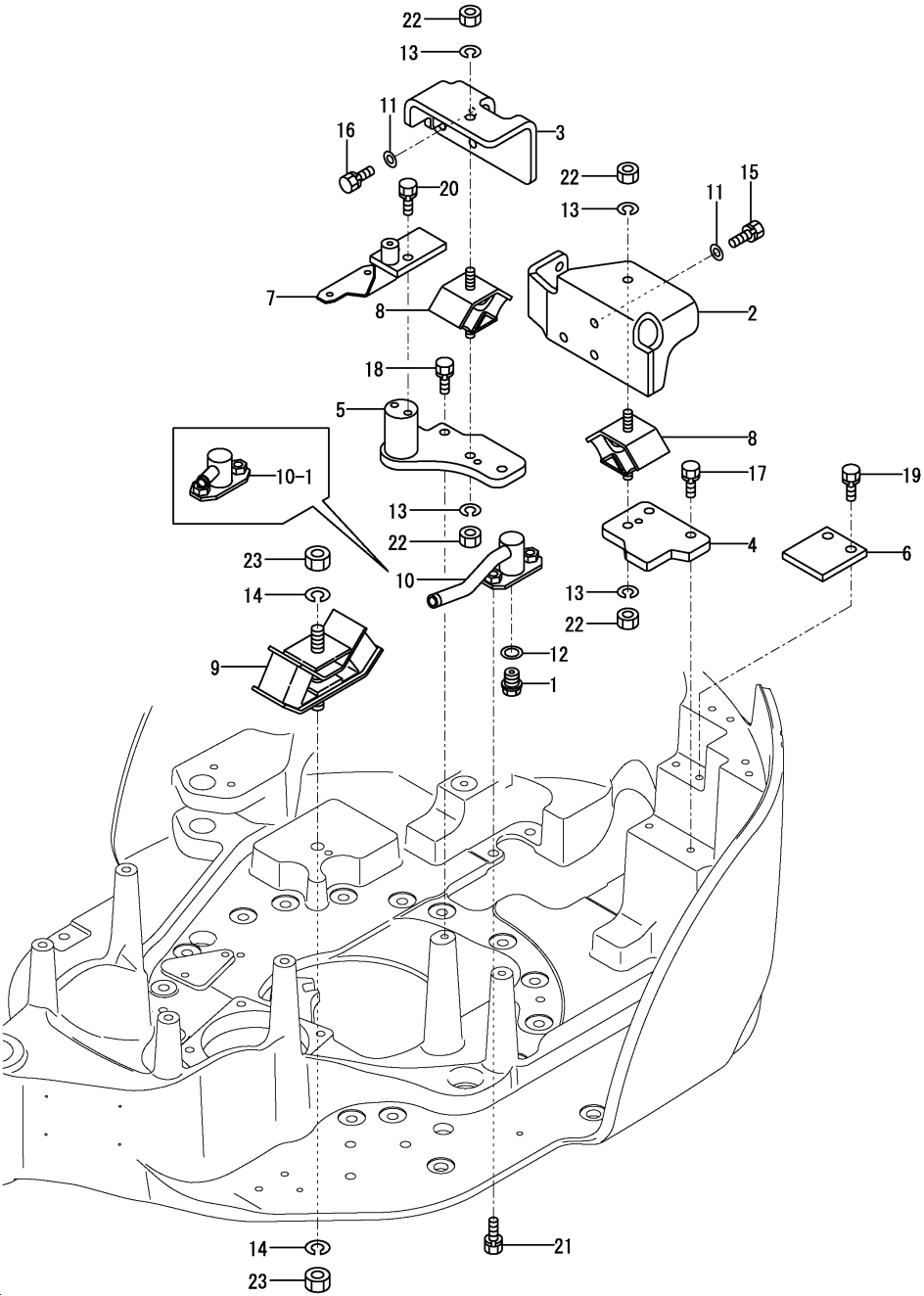
OCS10-M56101 ENGINE RELATED
Fig.4. ACCELERATOR LEVER



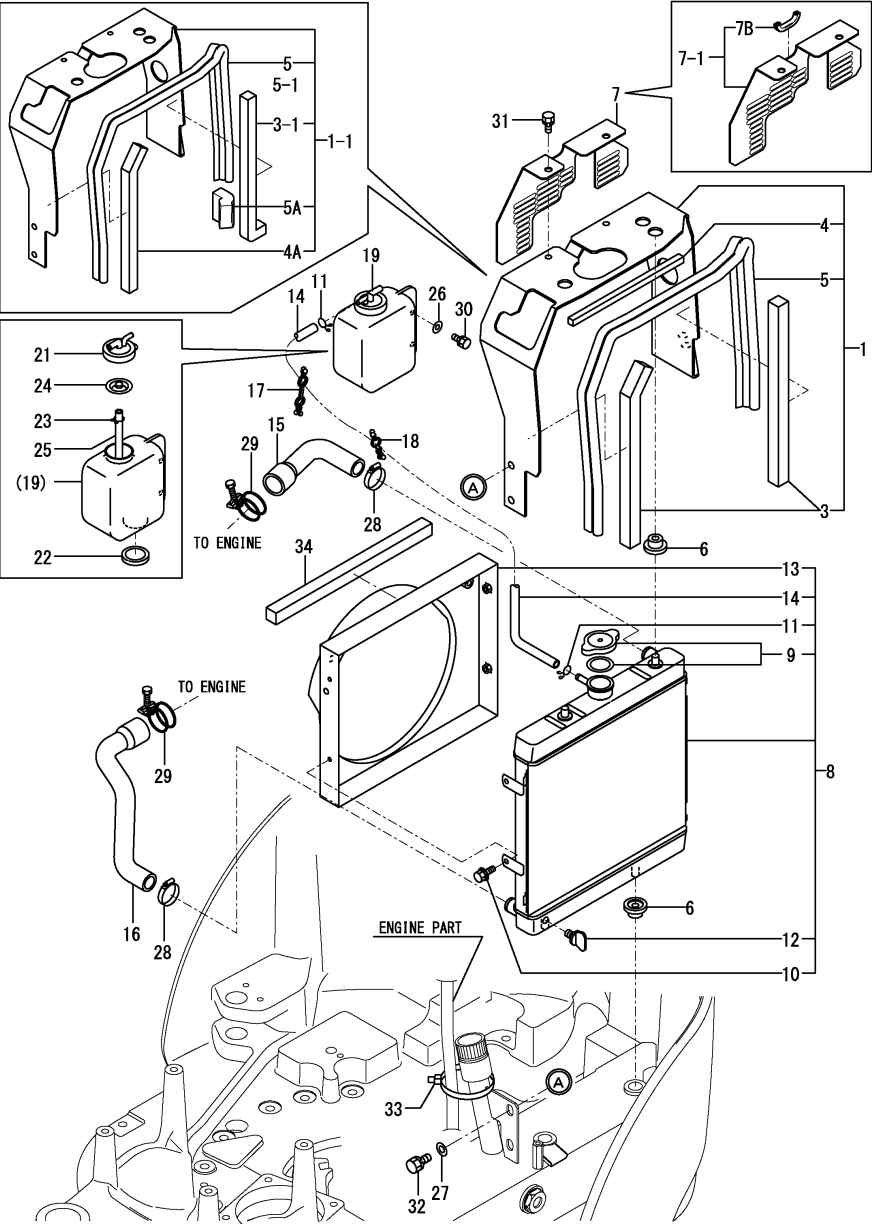
OCS10-M56101 Fig.4											
(A)=VIO10-2A(KR) (D)=											
(B)=VIO10-2B(KR) (E)=											
(C)= (F)=											
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A54-12100	BRACKET,ACCEL	1							
1-1	1	172A54-12101	BRACKET,ACCEL	1	1						S
(A=M27204)											
2	1	172446-12100	LEVER, ACCELERATOR	1							
2-1	1	172446-12100-1	LEVER, ACCELERATOR	1	1						S
(A=M/#22955)											
3	1	172446-12130	ARM ASSY	1	1						
4	1	172146-12150	GRIP, ACCELERATOR	1	1						
5	1	172A54-12200	CABLE, ACCELERATOR	1	1						
6	1	172113-12522	PIN, CABLE	1	1						
7	1	172126-16540	CLAMP	1	1						
8	1	1C6281-52310	PIN, SNAP 6	2	2						
9	1	172156-61320	COLLAR	1	1						
10	1	22137-060000	WASHER, 6	2	2						
11	1	26013-080202	BOLT, M8X 20	2	2						
12	1	26013-080202	BOLT, M8X 20	1	1						
13	1	26116-080254	BOLT, M8X 25 PLATED	1	1						
14	1	26756-080002	NUT, LOCK M8	1	1						
15	1	26756-120002	NUT, LOCK M12	2	2						
16	1	933170-01490	SPRING	2	2						

(A)=VIO10-2A(KR)
(B)=VIO10-2B(KR)
(C)=

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



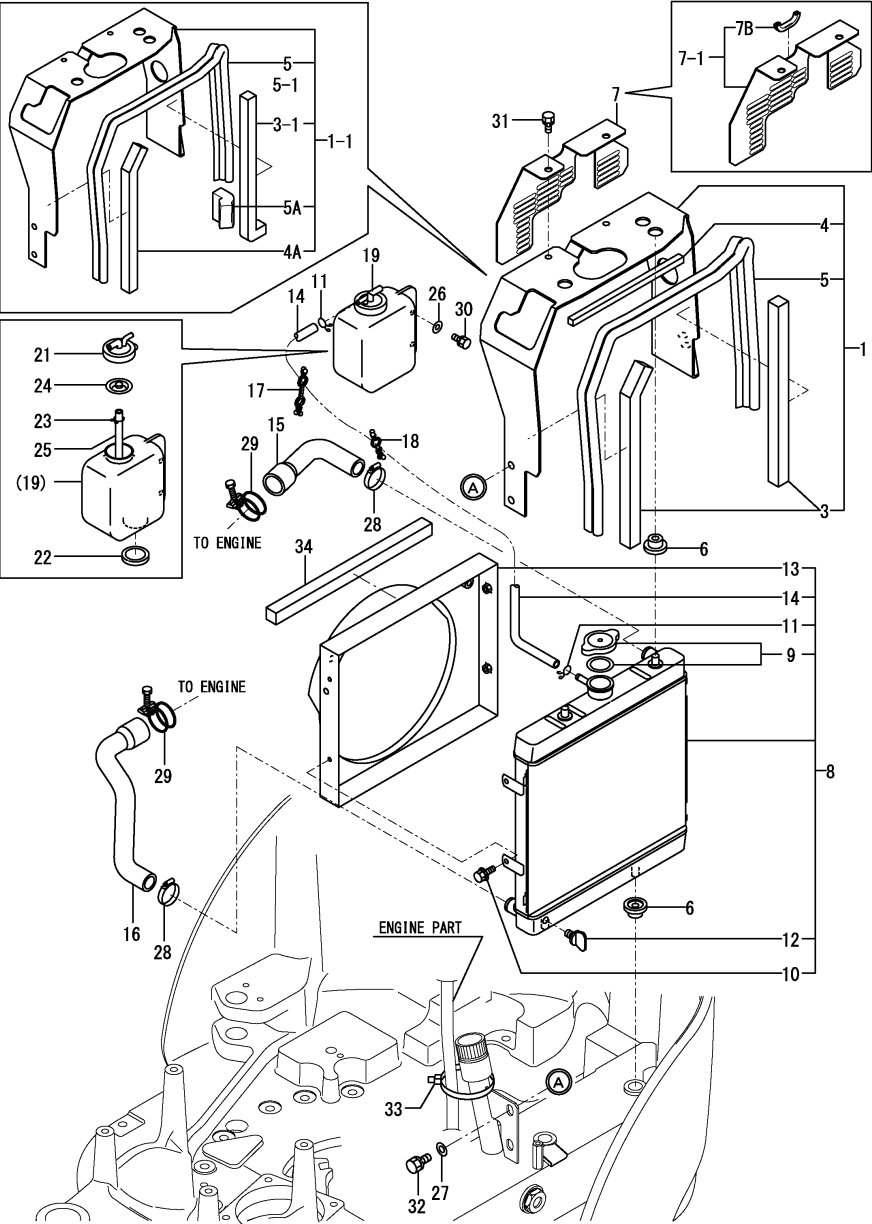
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	105425-01690	PLUG, M16	1	1						
2	1	172A54-13100	MOUNT FL,ENGINE	1	1						
3	1	172A54-13110	MOUNT FR,ENGINE	1	1						
4	1	172A54-13120	STAY,ENG FL	1	1						
5	1	172A54-13130	STAY ASSY,ENG FR	1	1						
6	1	172157-13160	PLATE, STOPPER	1	1						
7	1	172480-13160	PLATE, STOPPER	1	1						
8	1	172179-13211	RUBBER, ANTI VIBRAT.	2	2						
9	1	172447-13260	ABSOBER,SHOCK 290K	1	1						
10	1	172A54-13700	BLOCK ASSY, DRAIN	1							
10-1	1	172A54-13701	BLOCK ASSY, DRAIN	1	1						S
(A=M27001)											
11	1	22137-100000	WASHER, 10	6	6						
12	1	22190-160002	WASHER, SEAL 16	1	1						
13	1	22217-100000	WASHER, SPRING 10	4	4						
14	1	22217-140000	WASHER, SPRING 14	2	2						
15	1	26013-100252	BOLT, M10X 25	3	3						
16	1	26013-100252	BOLT, M10X 25	3	3						
17	1	26013-100252	BOLT, M10X 25	2	2						
18	1	26013-100252	BOLT, M10X 25	2	2						
19	1	26013-100252	BOLT, M10X 25	2	2						
20	1	26013-100252	BOLT, M10X 25	2	2						
21	1	26013-100252	BOLT, M10X 25	2	2						
22	1	26716-100002	NUT, M10	4	4						
23	1	26736-140002	NUT, M14	2	2						



Remarks
(1)Interchangeable by simultaneous replacement with No.34.
(2)Full length = No.5 : 880mm, No.5-1 : 810mm.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A54-13300	MOUNT ASSY, RADIATOR	1							
1-1	1	172A54-13301	MOUNT ASSY, RADIATOR	1	1					F	1
(A=M29528)											
1-2	1	172A54-13302	MOUNT ASSY, RAD	1	1					N	
(A=M2F398) (B=MBF013)											
1-3	1	172A54-13303	MOUNT ASSY,RADIATOR	1	1					N	
(A=M2G489) (B=MBF016)											
3	2	172480-13520	SEAL, A	2							
3-1	2	172480-13520	SEAL, A	1	1					K	
(A=M29528)											
4	2	172480-13530	SEAL, B	1						Z	
(A=M29528)											
4A	2	172446-13570	SEAL, RADIATOR F	1	1					W	
(A=M29528)											
5	2	172989-68640	RUBBER, SEAL 880	1	1						
5-1	2	172162-61330	SEAL, COVER A	1	1					S	2
(A=M2G489) (B=MBF016)											
5A	2	172B58-13960	SEAL, OC	1	1					W	
(A=M2G489) (B=MBF016)											
6	1	172446-13330	RUBBER, ABSORBER	4	4						
7	1	172A54-13350	GUARD, FAN	1	1						
7-1	1	172A54-13340	GUARD ASSY, FAN	1	1					N	
(A=M2F487) (B=M2F487)											
7B	2	172A54-13360	TRIM, 60	1	1						
8	1	172A54-13510	RADIATOR ASSY	1	1						
9	2	172446-13450	CAP, PRESSURE	1	1						
10	2	172446-13470	BOLT ASSY	4	4						
11	2	172446-13490	CLIP	2	2						
12	2	172446-13500	COCK ASSY	1	1						
13	2	172A54-13550	SHROUD ASSY	1	1						
14	2	172480-13560	HOSE, RUBBER	1	1						
15	1	172A54-13600	HOSE, AIR CLEANER A	1	1						
16	1	172A54-13610	HOSE, RADIATOR B	1	1						
17	1	172171-14300	CLAMP, DOUBLE	1							
17-1	1	172137-16560	BAND, BINDING W	1	1					N	
(A=M/#22502)											
18	1	172122-16600	CLAMP, DOUBLE	1							
18-1	1	172137-16560	BAND, BINDING W	1	1					N	
(A=M/#22502)											
19	1	121468-44510	TANK ASSY, SUB	1							
19-1	1	121468-44520	TANK ASSY, SUB	1	1					N	
(A=M24314)											
21	2	121450-44531	CAP	1	1						
22	2	121468-44540	PLUG, SUB TANK	1						Z	
(A=M24350)											
23	2	124450-44560	CLAMP, PIPE	1	1						
24	2	121470-44581	GASKET	1	1						
25	2	23065-070130	PIPE, 7X 130	1	1						
26	1	22137-060000	WASHER, 6	2	2						
27	1	22137-100000	WASHER, 10	4	4						
28	1	23001-025000	CLAMP, HOSE 25	2	2						

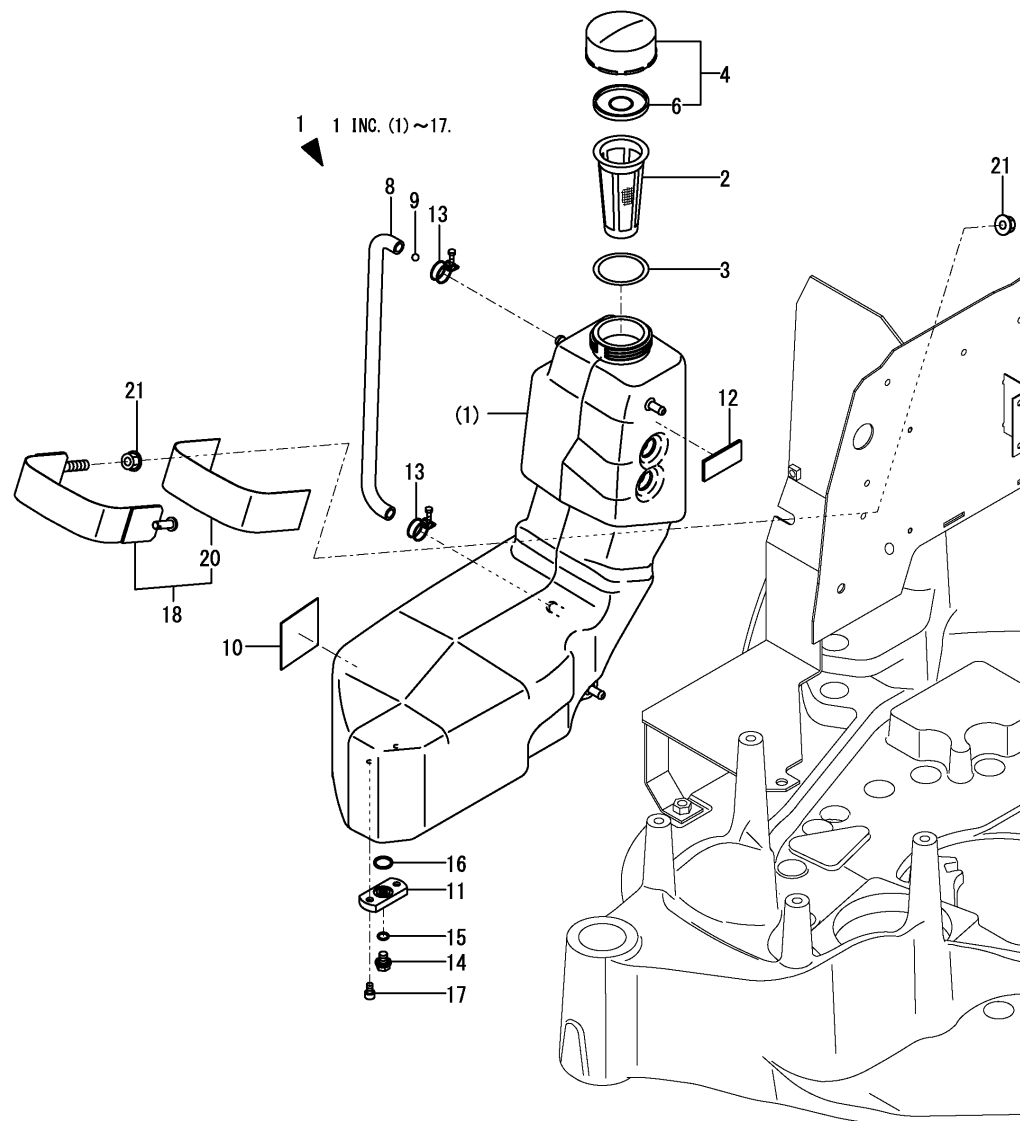
0CS10-M56101 ENGINE RELATED
Fig.6. RADIATOR & MOUNT



Remarks
(1)Interchangeable by simultaneous replacement with No.24.
(2)Full length = No.5 : 880mm, No.5-1 : 810mm.

										0CS10-M56101		Fig.6	
										(A)=VIO10-2A(KR)		(D)=	
										(B)=VIO10-2B(KR)		(E)=	
										(C)=		(F)=	
No.	Lev.	Parts No.	Description	Q'ty		I		R					
				(A)	(B)	(C)	(D)	(E)	(F)				
29	1	23010-038000	CLAMP, 38	2	2								
30	1	26013-060162	BOLT, M6X 16	2									
30-1	1	26013-060202	BOLT, M6X 20	2	2					N			
(A=M/#22501)													
31	1	26013-080162	BOLT, M8X 16	2	2								
32	1	26013-100202	BOLT, M10X 20	4	4								
33	1	933168-55770	BAND, BINDING 146	1	1								
34	1	172447-65710	SEAL, DUCT	1	1					W			
(A=M29528)													

Fig.7. FUEL TANK



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

Fig.8. FUEL PIPING

(A)=VIO10-2A(KR)
(B)=VIO10-2B(KR)
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	198072-04320	CLAMP, FILTER	1	1						
2	1	172186-13810	HOSE ASSY	1	1						
6	1	172171-14610	HOSE, FUEL	1							
6-1	1	172186-13810 (A=M22501)	HOSE ASSY	1	1						N
7	1	172141-14620	HOSE, FUEL	1	1						
8-1	1	172A54-14610	HOSE, FUEL 140	1							
8-2	1	184015-59250 (A=M28186)	HOSE	1	1						N
9	1	172456-14630	HOSE,FO 150 ASSY	1	1						
13	1	119225-52102	PUMP, FUEL FEED	1	1						
14	1	129053-55620	FILTER ASSY, FUEL	1							
14-1	1	129053-55621 (A=M28293)	FILTER ASSY, FUEL	1	1						N
15	2	104200-55330	SPRING, FUEL VALVE	1	1						
16	2	119810-55340	LEVER, FUEL	1	1						
17	2	129107-55510	CUP, STRAINER	1	1						
18	2	102103-55520	O-RING	1	1						
19	2	110250-55610	RING, CUP RETAINING	1	1						
20	2	119810-55650	ELEMENT	1	1						
21	2	121257-55720	SPRING, FILTER	1	1						
22	2	121257-55731	FLOAT	1	1						
23	2	104200-55750	SCREW, PAN M4	1	1						
24	2	24311-240100	O-RING, 1AP10A	1	1						
25	1	129052-55630	FILTER, FUEL	1	1						
26	1	124766-59050	CLAMP, HOSE 11.5	12	12						
27	1	184015-59230	HOSE ASSY, FUEL	1	1						
31	1	22137-060000	WASHER, 6	2	2						
32	1	22217-080000	WASHER, SPRING 8	1	1						
33	1	26013-060162	BOLT, M6X 16	2	2						
34	1	26013-080602	BOLT, M8X 60	1							
34-1	1	26013-080702 (A=M/#22502)	BOLT, M8X 70	1	1						N
35	1	26116-080122	BOLT, M8X 12 PLATED	1	1						
36	1	1A1686-57850 (A=M28186)	CLAMP, 80	1	1						W
37	1	172122-79930 (A=M28186)	CLAMP, HOSE	2	2						W
37-1	1	172126-11510 (A=M28186)	BAND	2	2						N

Fig.9. BATTERY

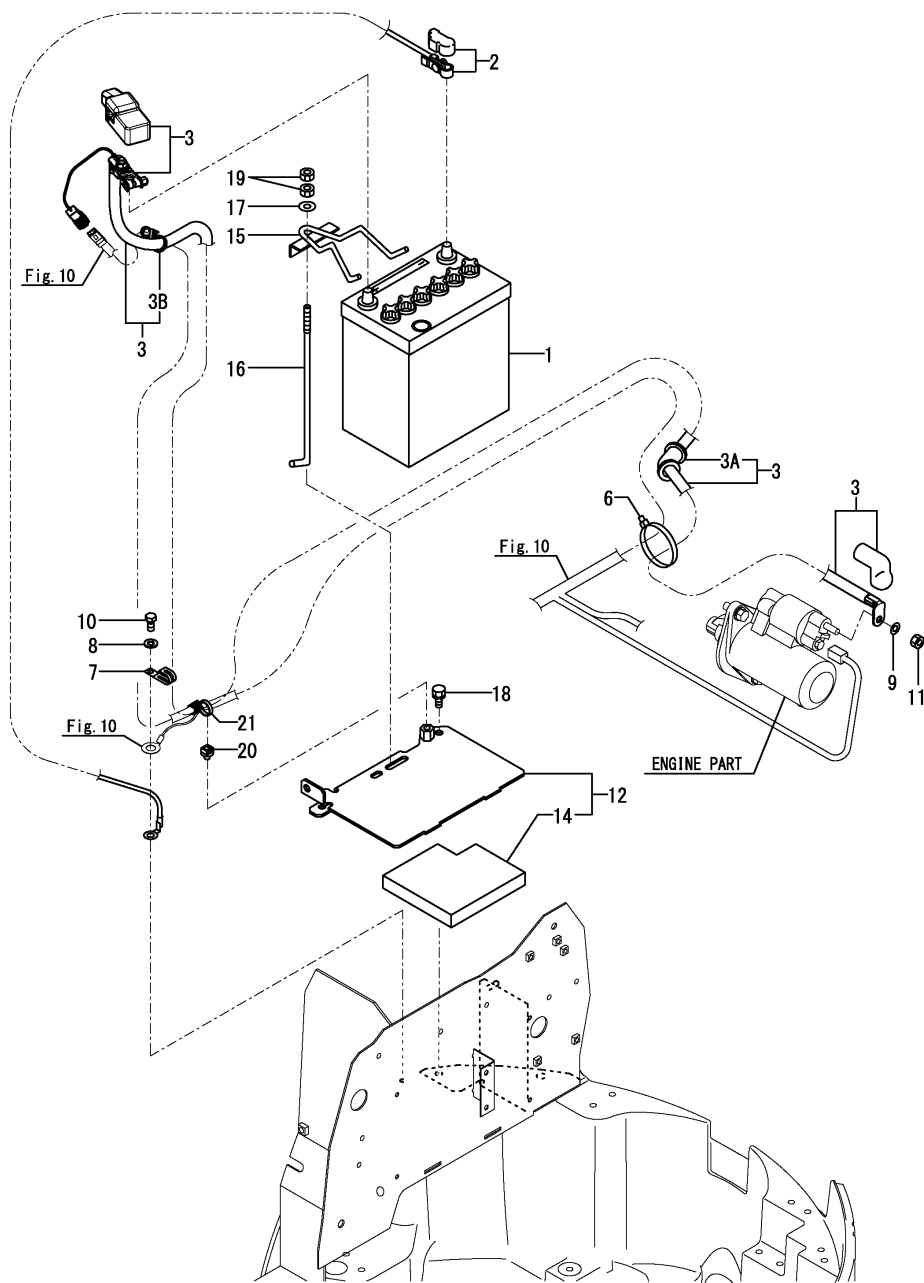
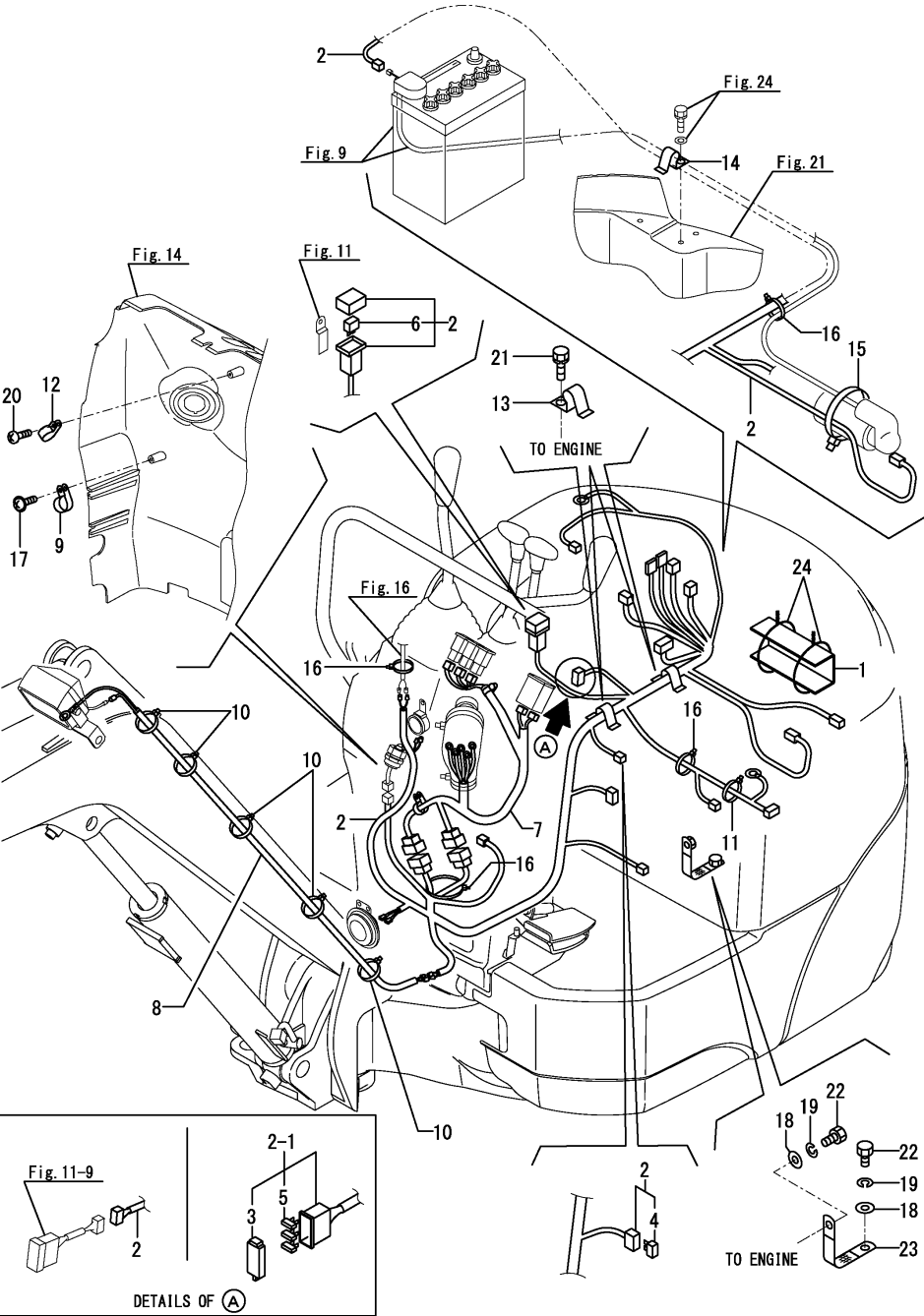
[illegible]

Fig.10. WIRING

(A)=VIO10-2A(KR)
(B)=VIO10-2B(KR)
(C)=

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

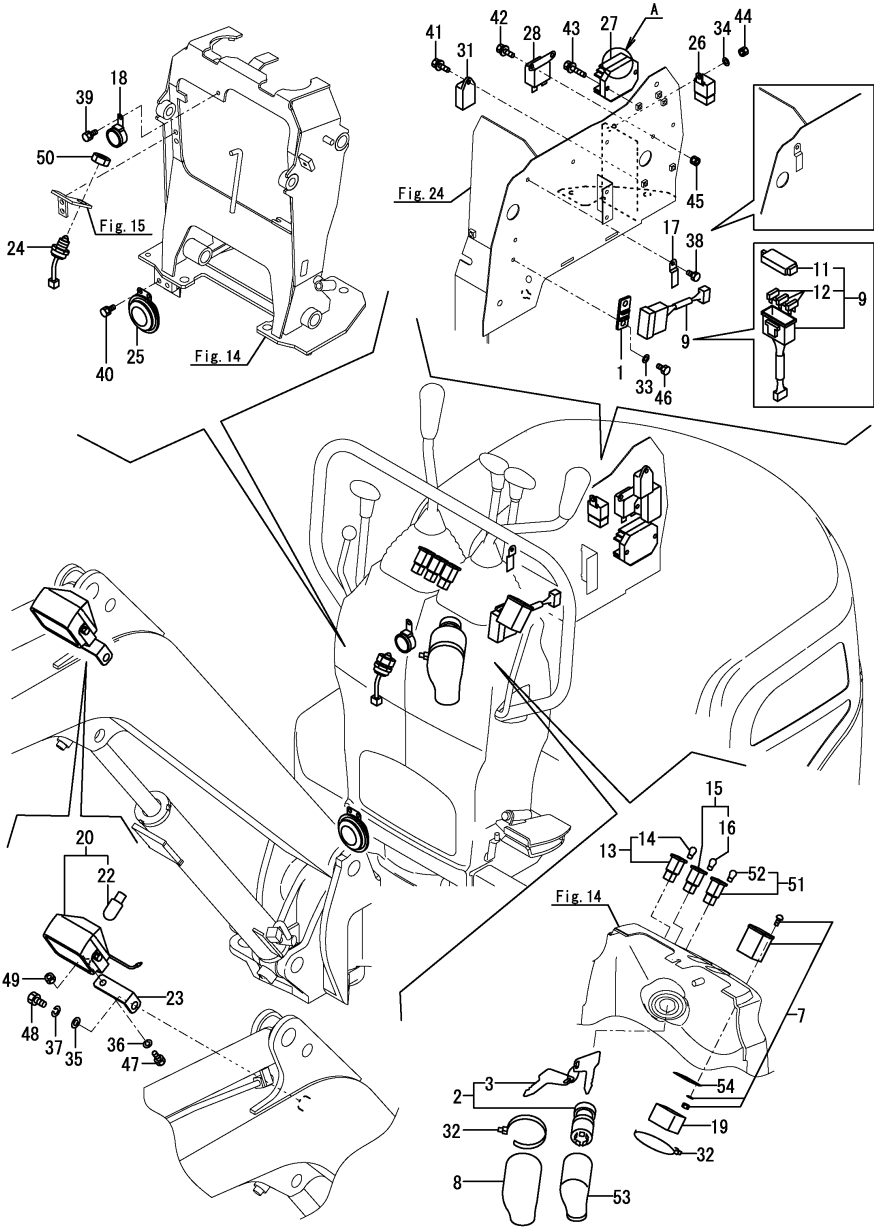


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172164-11310	MAT	1	1						
2	1	172A54-16500	WIRE HARNESS-A	1							
2-1	1	172A54-16501	WIRE HARNESS A ASSY	1	1					N	
(A=M/#22546)											
3	2	172183-16590	COVER	1	1					W	
(A=M/#22546)											
4	2	172648-16600	DIODE, 1.5-2P	1	1						
5	2	29420-100000	FUSE, B 10A	3	3					W	
(A=M/#22546)											
6	2	172447-17150	FUSE 40A	1	1						
7	1	172480-16510	WIRE HARNESS, STAND	1							
7-1	1	172480-16511	HARNESS, STAND	1	1					N	
(A=M/#22609)											
8	1	172186-16541	HARNESS, WORK LAMP	1	1						
9	1	172446-16550	CLAMP	1	1						
10	1	172137-16560	BAND	5	5						
11	1	172137-16560	BAND	1	1						
12	1	172446-16560	CLAMP	1	1						
13	1	172112-16650	CLAMP	2	2						
14	1	172112-16650	CLAMP	1	1						
15	1	194250-51660	BAND, NYLON 250	1	1						
16	1	1A1380-55310	CLAMP, WIRE	4	4						
17	1	194940-61790	SCREW, TAPPING M5X16	1	1						
18	1	22137-100000	WASHER, 10	2	2						
19	1	22217-100000	WASHER, SPRING 10	2	2						
20	1	22857-400120	SCREW, 4X12	1	1						
21	1	26013-100162	BOLT, M10X 16	2	2						
22	1	26116-100162	BOLT, M10X 16 PLATED	2	2						
23	1	933171-15801	CORD, ENGINE EARTH	1	1						
24	1	22453-100300	WIRE, 1.0	2	2					W	
(A=*2010.12.)											

Fig.11. EQUIPMENT

(A)=VIO10-2A(KR)
(B)=VIO10-2B(KR)
(C)=

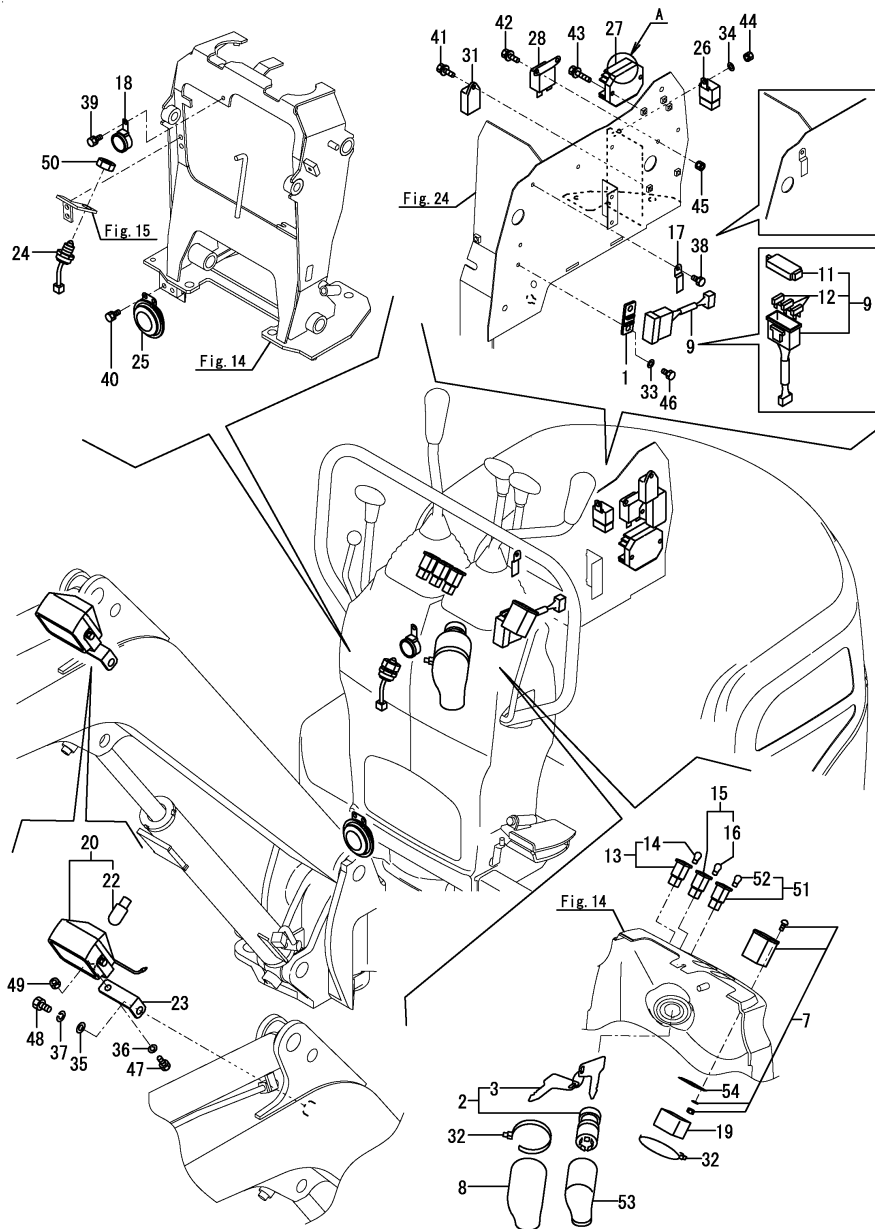
(D)=
(E)=
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172183-16550	BRACKET,FUSE	1	1						
2	1	172524-17010	SWITCH ASSY, STARTER	1							
2-1	1	172524-17011	SWITCH ASSY, STARTER	1	1						N
(A=M28234)											
3	2	172524-17330	KEY ASSY	1	1						
7	1	172186-17100	METER, HOUR	1	1						
8	1	172446-17111	INSULATOR	1	1						
9	1	172447-17110	FUSE CMP,4P	1							Z
(A=M22546)											
11	2	172183-16590	COVER	1							
12	2	29420-100000	FUSE, B 10A	3							
13	1	172149-17120	LAMP	1	1						
14	2	172149-17140	BULB, 12V 3.4W	1	1						
15	1	172149-17130	LAMP	1	1						
16	2	172149-17140	BULB, 12V 3.4W	1	1						
17	1	172447-17130	STAY	1							Z
(A=M22701)											
18	1	172141-17150	BUZZER	1	1						
19	1	172480-17150	INSULATOR, 5X45X130	1	1						
20	1	172156-17401	LAMP, WORK	1	1						
22	2	172156-17420	BULB, 12V 27W	1	1						
23	1	172156-17430-1	STAY, LAMP	1							S
(A=M22955)											
23-1	1	172156-17430-5	STAY, LAMP	1							S
(A=M23757)											
23-2	1	172156-17430-Y	STAY, LAMP	1	1						S
(A=M28001)											
24	1	194464-52190	SWITCH, START	1	1						
25	1	194151-57100	HORN	1	1						
26	1	119247-77100	RELAY, POWER	1							
26-1	1	198461-52950	RELAY, CA TYPE C	1	1						R
(A=M27113)											
27	1	119230-77711	LIMITTER, CURRENT	1							1
27-1	1	119230-77712	LIMITTER, CURRENT	1	1						N 2
(A=M24032)											
28	1	119650-77910	RELAY ASSY, GLOW	1							
28-1	1	119650-77911	RELAY ASSY, GLOW	1	1						N
(A=M27170)											
31	1	129211-77920	TIMER	1	1						
32	1	172122-79930	CLAMP, HOSE	2	2						
33	1	22137-060000	WASHER, 6	2	2						
34	1	22137-060000	WASHER, 6	1	1						
35	1	22137-100000	WASHER, 10	1	1						
36	1	22217-080000	WASHER, SPRING 8	1	1						
37	1	22217-100000	WASHER, SPRING 10	1	1						
38	1	26013-060122	BOLT, M6X 12	1							Z
(A=M22701)											
39	1	26013-060122	BOLT, M6X 12	1	1						
40	1	26013-060122	BOLT, M6X 12	2	2						
41	1	26014-060162	BOLT, M6X 16	1	1						
42	1	26014-060162	BOLT, M6X 16	2							

Remarks
(1)A : Model sealing = RS51 81
(2)A : Model sealing = RX51 22

Fig.11. EQUIPMENT



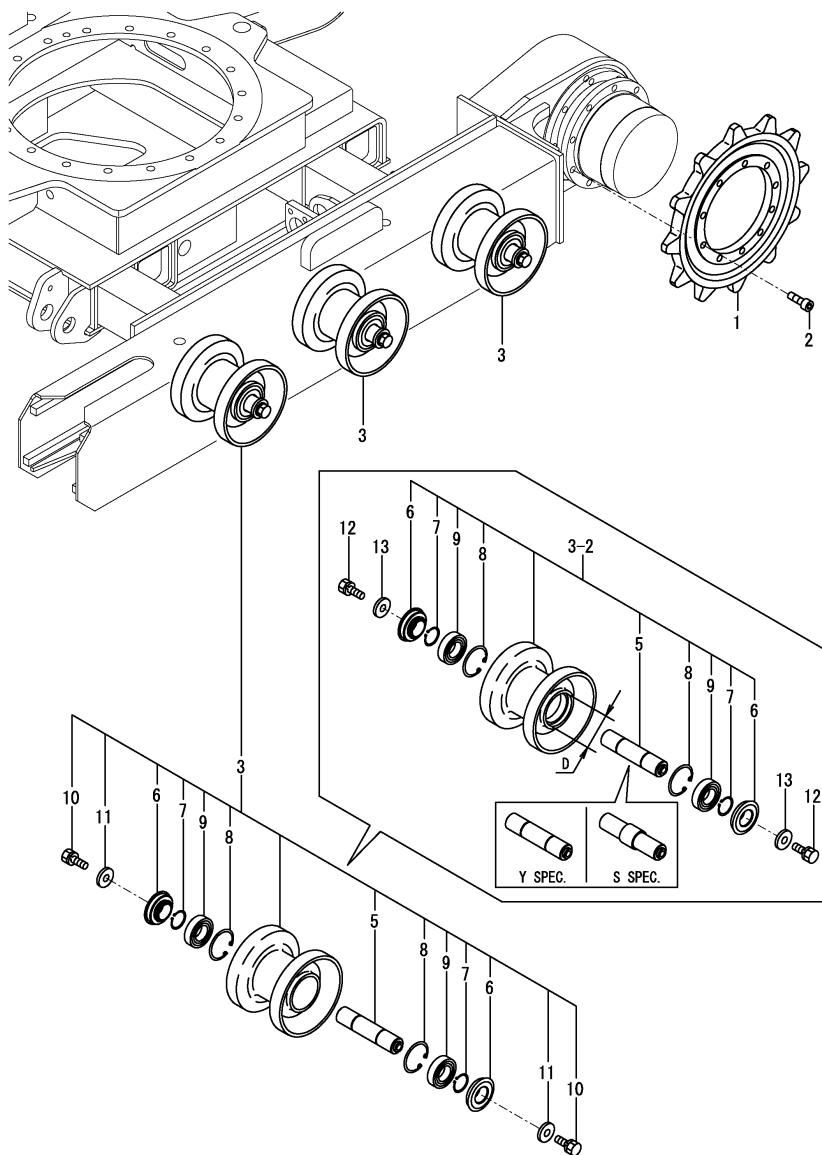
(1)A : Model sealing = RS51 81
(2)A : Model sealing = RX51 22

(A)=VIO10-2A(KR)
(B)=VIO10-2B(KR)
(C)=

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

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I R
42-1	1	26013-060162 (A=M22701)	BOLT, M6X 16	2	2					R
43	1	26014-060252	BOLT, M6X 25	2	2					
44	1	26051-060002	NUT, M6	1	1					
45	1	26051-060002 (A=M22701)	NUT, M6	2						Z
46	1	26116-060162	BOLT, M6X 16 PLATED	2	2					
47	1	26116-080162	BOLT, M8X 16 PLATED	1	1					
48	1	26116-100202	BOLT, M10X 20 PLATED	1	1					
49	1	26716-080002	NUT, M8	1	1					
50	1	26776-180002	NUT, LOCK M18	1	1					
51	1	933113-05190	LAMP, OIL	1	1					
52	2	933113-05180	BULB, 12V 3W	1	1					
53	1	933113-15900	COVER, TERMINAL	1	1					
54	1	172A82-17150 (A=M29690)	PLATE, HOUR METER	1	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
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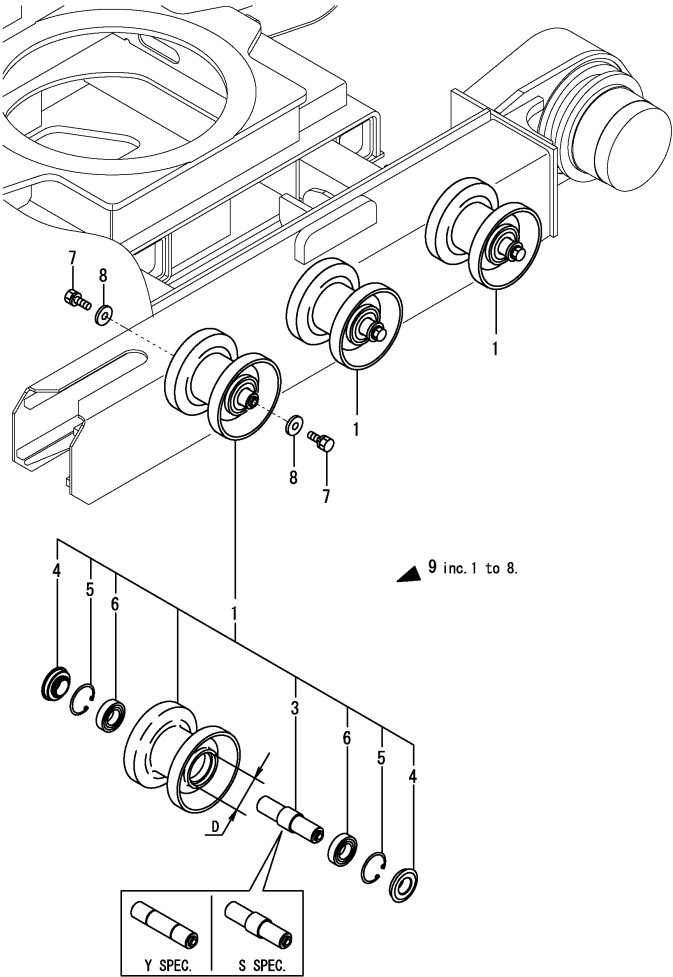


No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	172447-29101-1	SPROCKET, 12	2	2						
2	1	26450-100252	BOLT, M10X 25	18	18						
3	1	772446-37300-3	ROLLER ASSY, TRACK	6							
3-1	1	172446-30200 (A=M/#23108)	ROLLER, TRACK	6						F	1
3-2	1	172446-30200 (A=M29430)	ROLLER, TRACK	6						Z	2
5	2	172155-37310	SHAFT, ROLLER	6							
6	2	172137-37360	SEAL, TW254716	12							
7	2	22242-000250	RING, 25	12							
8	2	22252-000470	RING, 47	12							
9	2	24101-060054	BEARING, BALL 6005	12							
10	2	26013-120252 (A=M/#23108)	BOLT, M12X 25	12						Z	
11	2	933152-03700 (A=M/#23108)	WASHER, CLUTCH	12						Z	
12	1	26013-120252 (A=M/#23108)	BOLT, M12X 25	12						W	
13	1	933152-03700 (A=M/#23108)	WASHER, CLUTCH	12						W	

The inner parts are not compatible.

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.67. (12A)TRACK ROLLER(S SPEC.)



Remarks
* Y specification D=53.5mm, S specification D=62mm.
The inner parts are not compatible.
* Track roller (Y specification) are shown in Fig.12.
(1)Spare parts.

(A)=VIO10-2A(KR)
(B)=VIO10-2B(KR)
(C)=

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

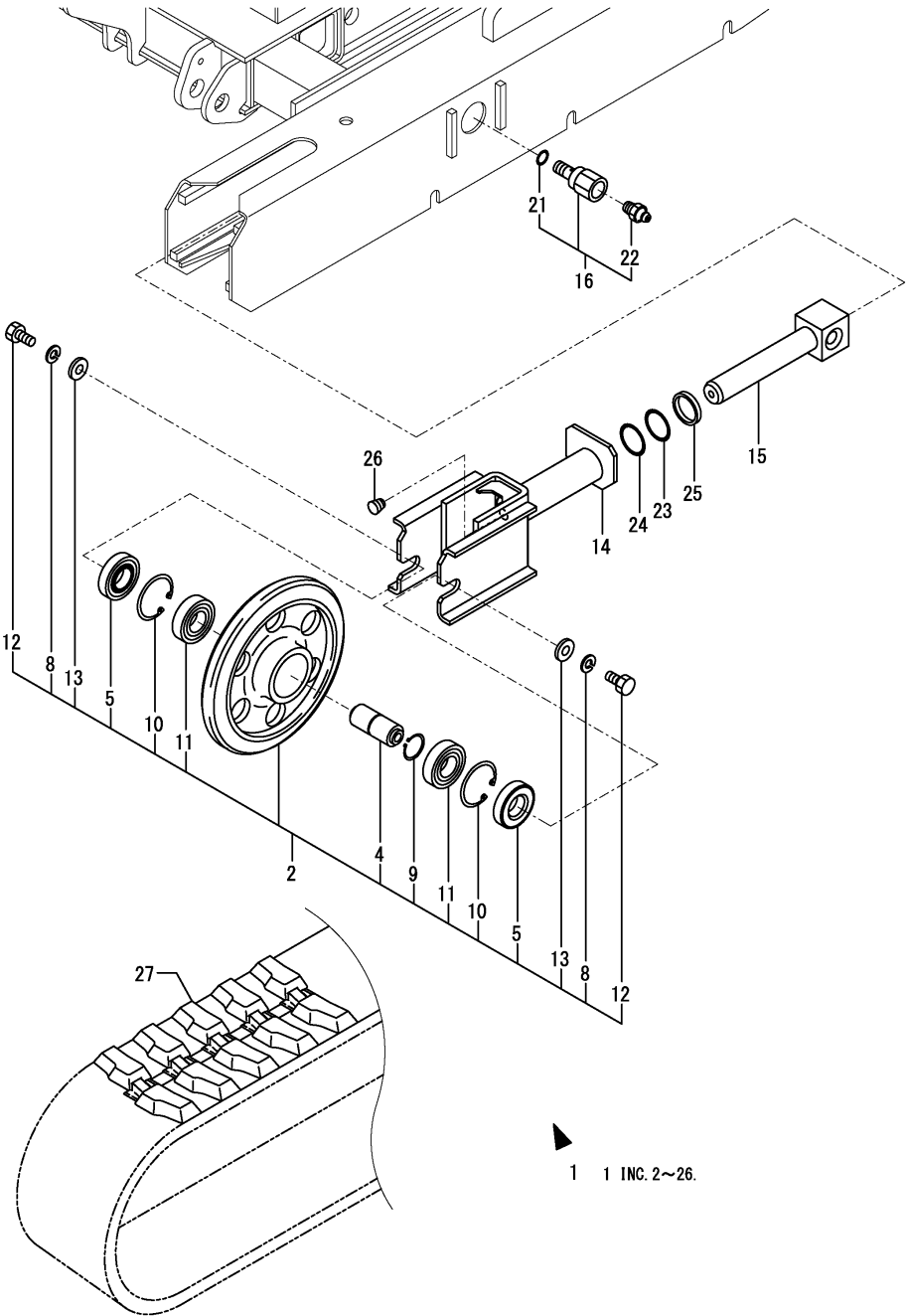
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A82-37300 (A=M29430)	ROLLER ASSY, LOWER	6	6						W
3	2	172A82-37320	SHAFT	6	6						
4	2	1E6140-73420	SEAL, OIL 25X52X18	12	12						
5	2	22252-000470	RING, 47	12	12						
6	2	24101-060054	BEARING, BALL 6005	12	12						
7	1	26013-120252	BOLT, M12X 25	12	12						
8	1	933152-03700	WASHER, CLUTCH	12	12						
9	1	772446-37301	ROLLER	1	1						1

Fig.13. IDLER, CRAWLER ADJUST & CRAWLER

(A)=VIO10-2A(KR)
(B)=VIO10-2B(KR)
(C)=

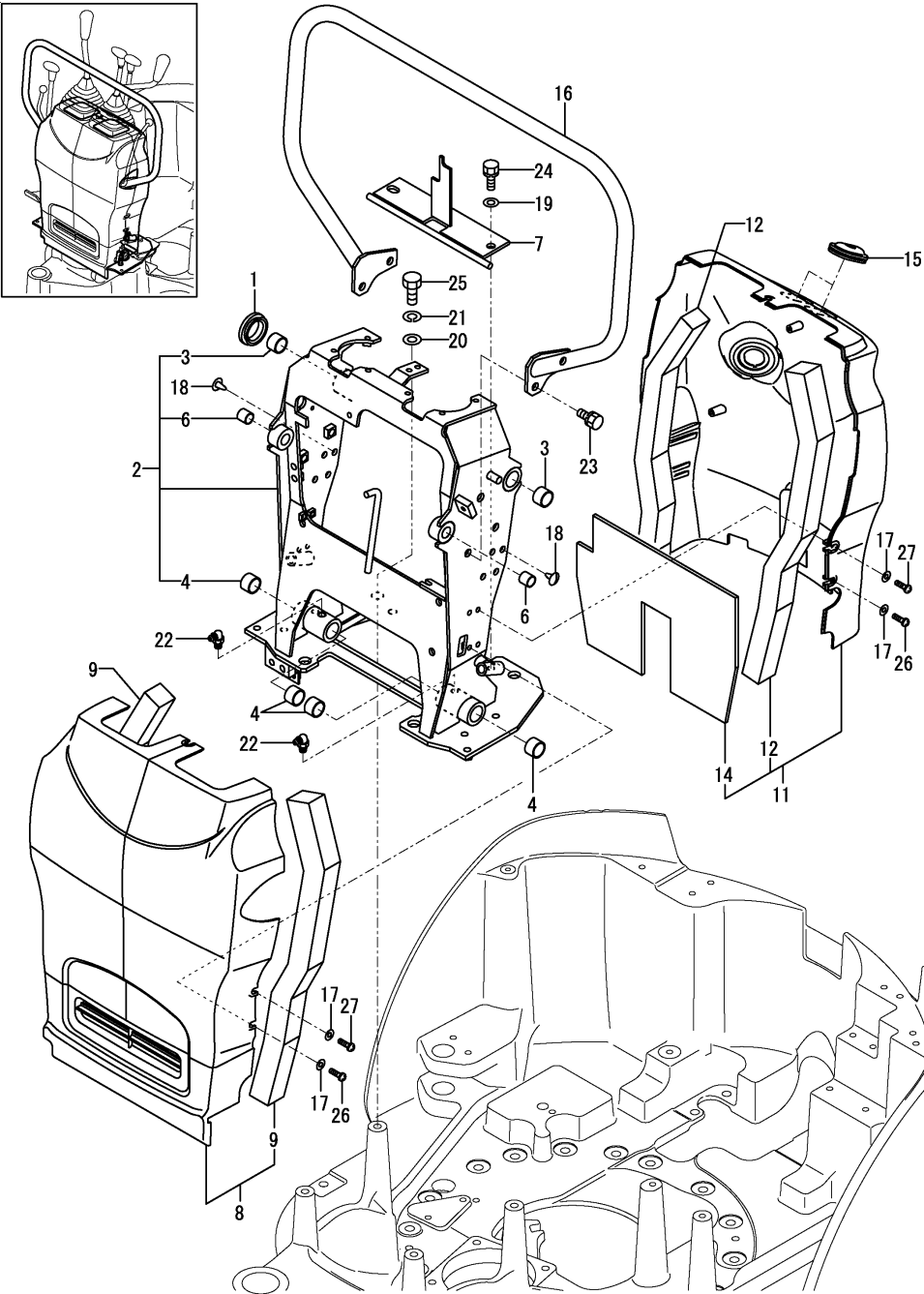
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	772480-37100-1	IDLER ASSY, W/ADJUST	2	2						
2	2	772446-37101-1	IDLER ASSY	2	2						
4	3	172449-37110-1	SHAFT IDLER(GRAY:49)	2	2						
5	3	1A1060-48300	SEAL,OIL QLN306213.2	4	4						
8	3	22217-120000	WASHER, SPRING 12	4	4						
9	3	22242-000300	RING, 30	2	2						
10	3	22252-000620	RING, 62	4	4						
11	3	24101-062064	BEARING, BALL 6206	4	4						
12	3	26116-120252	BOLT, M12X 25 PLATED	4	4						
13	3	933152-03700	WASHER, CLUTCH	4	4						
14	2	172480-37710-1	FORK ASSY, IDLER	2	2						
15	2	172448-37800	TUBE ASSY, ADJUST	2	2						
16	2	172122-37844	VALVE ASSY, NIPPLE	2	2						
21	3	24315-000140	O-RING, 1BP14.0	2	2						
22	3	24761-020000	NIPPLE, GREASE PT1/8	2	2						
23	2	172137-37850	RING, BACK UP	2	2						
24	2	24315-000300	O-RING, 1BP30.0	2	2						
25	2	933126-38600	SEAL, DUST	2	2						
26	2	933171-13691	PLUG	2	2						
27	1	172480-38600	CRAWLER, RUBBER	2	2						



1 1 INC. 2~26.

Fig.14. LINK STAND



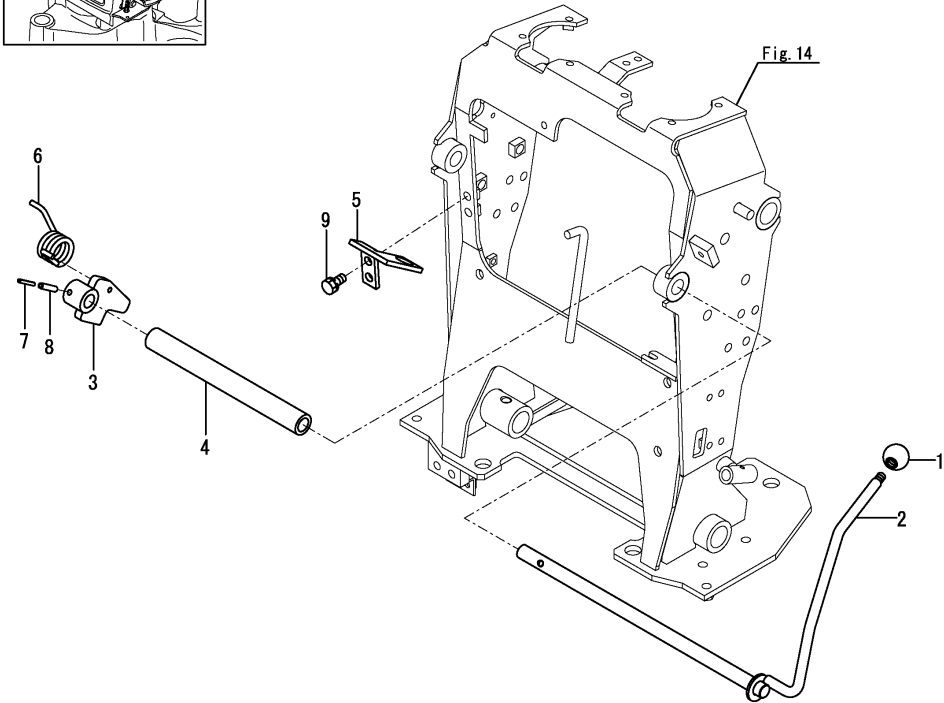
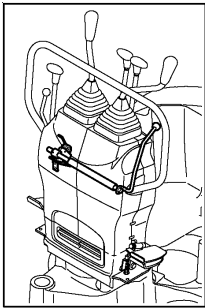
(A)=VIO10-2A(KR)
(B)=VIO10-2B(KR)
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	1A6260-27270	GROMMET, 35	1	1						
2	1	172480-45050-1	SUPPORT ASSY	1							
2-1	1	172480-45051-1	SUPPORT ASSY	1	1						N
(A=M29278)											
2-2	1	172480-45052-1	SUPPORT ASSY	1	1						N
(A=M2F398) (B=MBF013)											
3	2	172141-41370	BUSH, 20 15	2	2						
4	2	172141-41370	BUSH, 20 15	4	4						
6	2	24550-014150	BUSH, 14X15	2	2						
7	1	172480-45550-1	PLATE ASSY, GUIDE	1	1						
8	1	172480-49200	COVER ASSY, STAND F	1							
8-1	1	172A54-49100	COVER ASSY, STAND F	1	1						S
(A=M28001)											
9	2	172480-49120	SEAL, STAND	2	2						
11	1	172480-49150	COVER ASSY, STAND R	1	1						1
11-1	1	172480-49450	COVER ASSY,STAND R D	1	1						S 2
(A=M2F001) (B=M2F001)											
12	2	172480-49120	SEAL, STAND	2	2						
14	2	172480-49170	HEAT INSULATOR, R	1	1						
15	1	172446-49180	GROMMET, LEVER	2	2						
16	1	172446-49200-1	ASSIST BAR ASSY	1	1						
16-1	1	172446-49200-Y	BAR, ASSIST	1	1						S
(A=M2F001) (B=M2F001)											
17	1	172446-49350	WASHER, 6.3X15X1	10	10						
18	1	172444-68650	CLIP, TREE	4	4						
19	1	22137-100000	WASHER, 10	2	2						
20	1	22137-120000	WASHER, 12	4	4						
21	1	22217-120000	WASHER, SPRING 12	4	4						
22	1	24761-050000	NIPPLE, GREASE C	2	2						
23	1	26013-100202	BOLT, M10X 20	4	4						
24	1	26013-100252	BOLT, M10X 25	2	2						
25	1	26076-120302	BOLT, 10.912X 30	4	4						
26	1	26589-060162	SCREW, M6	6	6						
27	1	26589-060202	SCREW, M6X20	4	4						

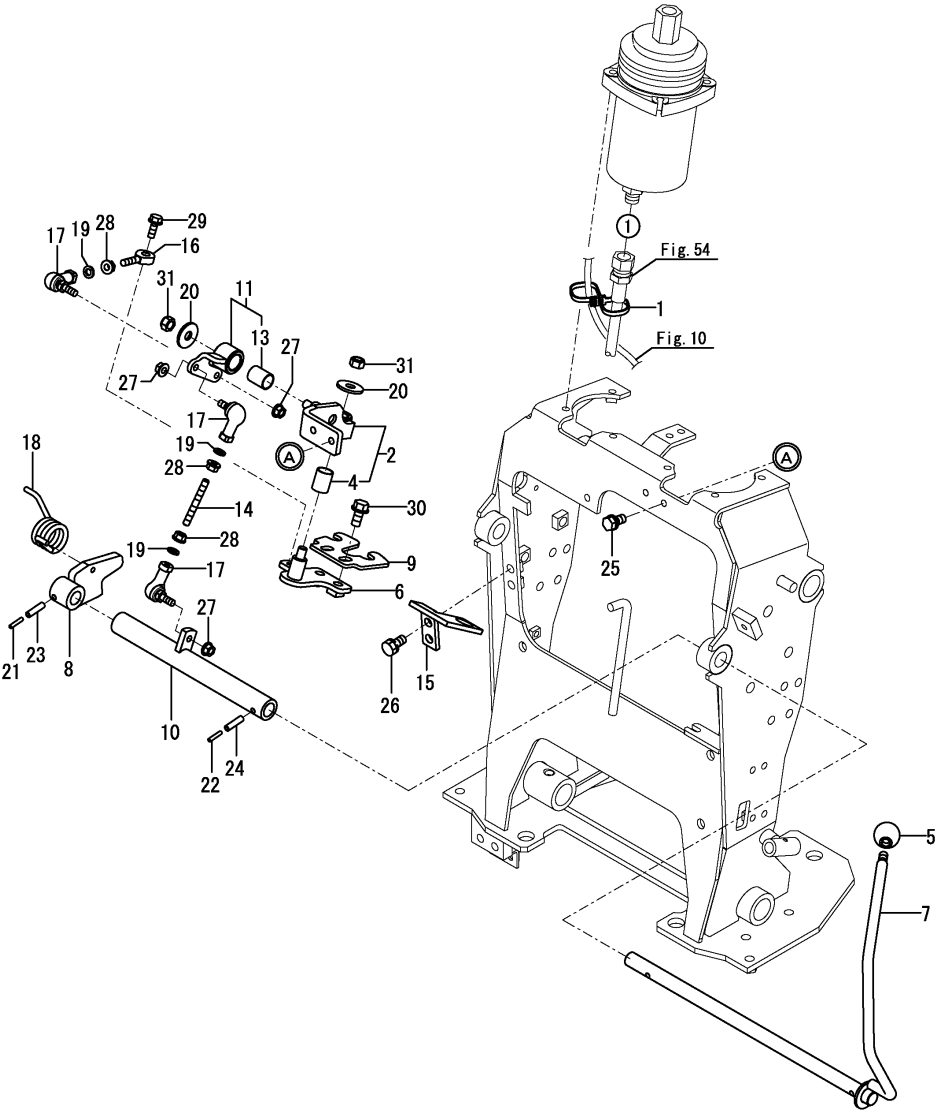
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(B)=VIO10-2B(KR)
(C)=

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

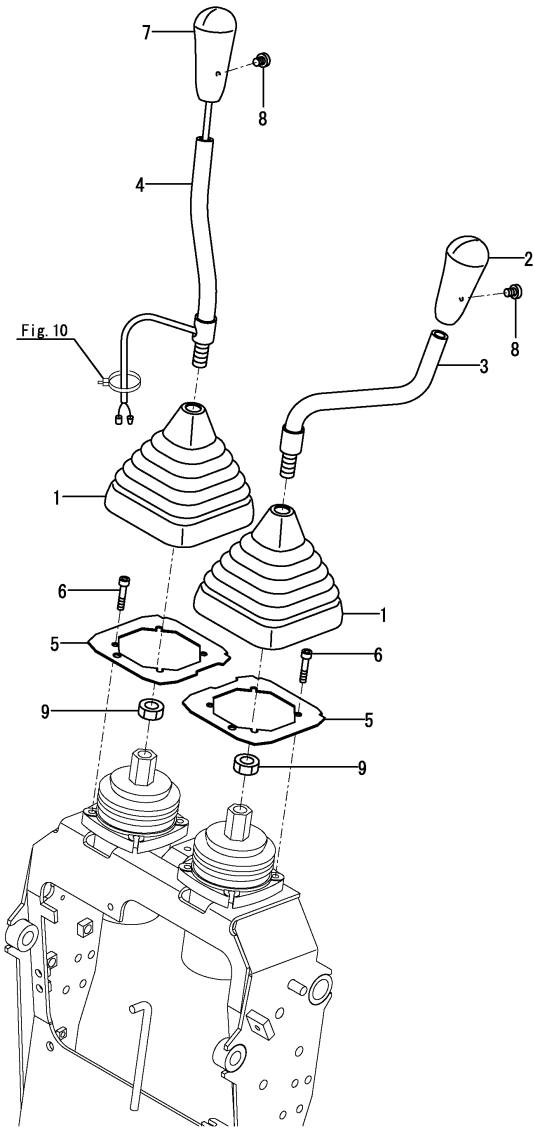
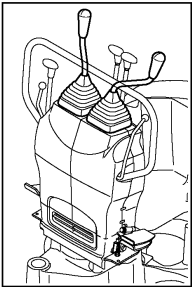


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172447-45230	KNOB, LEVER	1							
2	1	172480-45280-1	LEVER ASSY, LOCK	1							
2-1	1	172480-45281	LEVER ASSY,ROCK	1							N
(A=M29358)											
3	1	172480-45300-1	LINK ASSY, LOCK	1							
4	1	172480-45360-1	PIPE	1							
5	1	172480-45500	PLATE,SAFETY SWITCH	1							
6	1	172165-45970	SPRING	1							
7	1	22351-030025	PIN, SPRING 3.0X25	1							
8	1	22351-050025	PIN, SPRING 5.0X25	1							
9	1	26013-080162	BOLT, M8X 16	2							

OCS10-M56101 CONTROL EQUIPMENT
Fig.69. (15A)STOPPER(VIO10-2B)



OCS10-M56101 Fig.69											
			(A)=VIO10-2A(KR)	(D)=							
			(B)=VIO10-2B(KR)	(E)=							
			(C)=	(F)=							
No.	Lev.	Parts No.	Description	Q'ty					I	R	
				(A)	(B)	(C)	(D)	(E)			(F)
1	1	172137-16560	BAND, BINDING W		1						
2	1	172A54-45210	BRACKET ASSY		1						
4	2	24550-014200	BUSH, 14X20		1						
5	1	172447-45230	KNOB, LOCK LEVER		1						
6	1	172A54-45270	ARM ASSY, LOCK		1						
7	1	172480-45281	LEVER ASSY, LOCK		1						
8	1	172480-45300-1	LINK ASSY, LOCK		1						
9	1	172A54-45310	PLATE , LOCK		1						
9-1	1	172A54-45311	PLATE , LOCK		1					N	
(B=MBF013)											
10	1	172A54-45330	LINK ASSY, A		1						
11	1	172A54-45370	LINK ASSY, B		1						
13	2	24550-014200	BUSH, 14X20		1						
14	1	172A54-45410	ROD		1						
15	1	172480-45500	PLATE, SAFETY SWITCH		1						
16	1	172156-45800	END, ROD		1						
17	1	172446-45820	LINK BALL 6		3						
18	1	172165-45970	SPRING		1						
19	1	22117-060000	WASHER, 6		3						
20	1	22157-080000	WASHER, 8		2						
21	1	22351-030025	PIN, SPRING 3.0X25		1						
22	1	22351-030025	PIN, SPRING 3.0X25		1						
23	1	22351-050025	PIN, SPRING 5.0X25		1						
24	1	22351-050025	PIN, SPRING 5.0X25		1						
25	1	26013-080162	BOLT, M8X 16		2						
26	1	26013-080162	BOLT, M8X 16		2						
27	1	26051-060002	NUT, M6		3						
28	1	26051-060002	NUT, M6		3						
29	1	26106-060162	BOLT, M6X 16 PLATED		1						
30	1	26106-080162	BOLT, M8X 16 PLATED		2						
31	1	26347-080002	NUT, M8		2						



(A)=VIO10-2A(KR)
(B)=VIO10-2B(KR)
(C)=

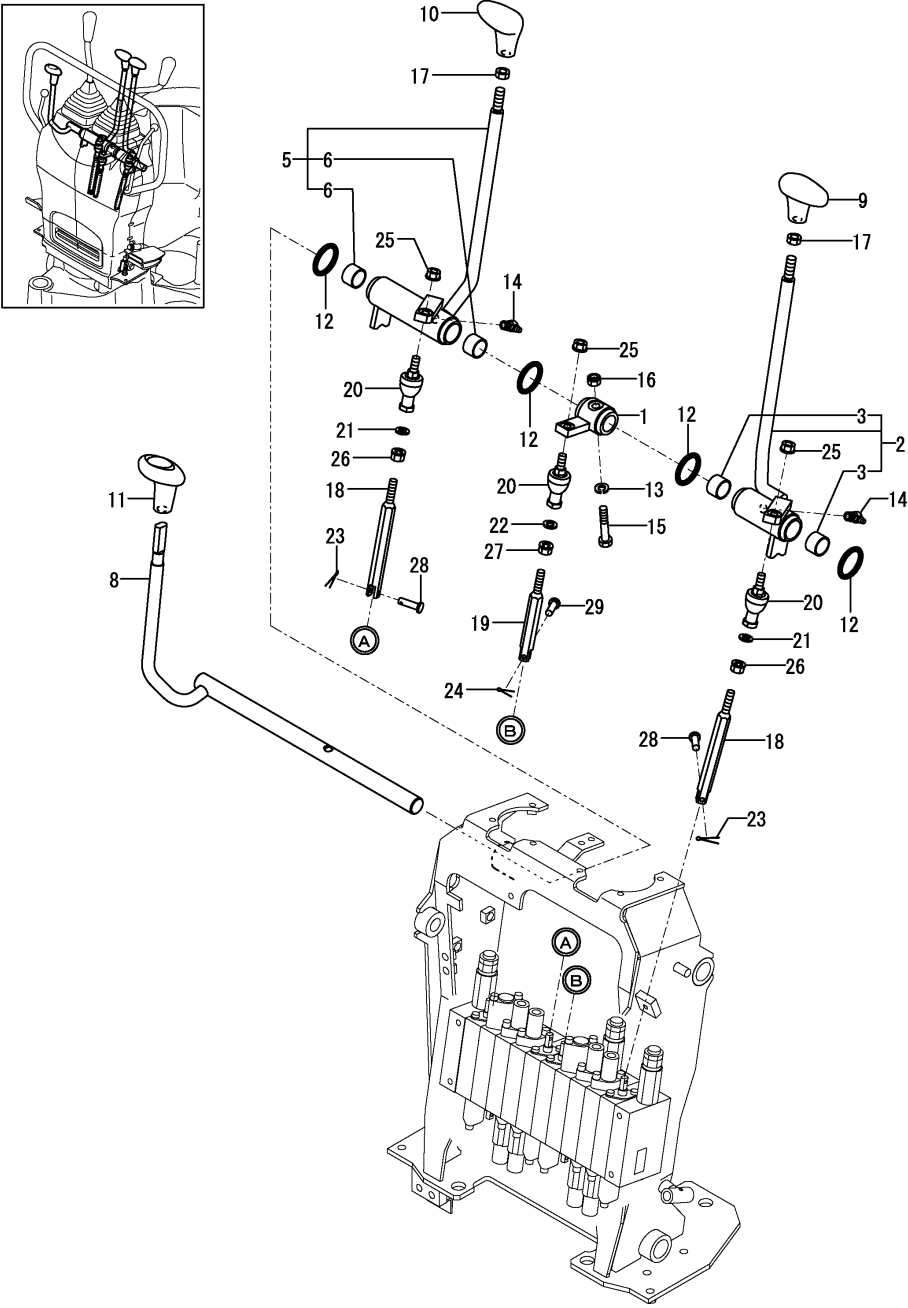
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172151-45010	BOOT P,LEVER	2	2						
2	1	172165-45071	KNOB ASSY	1	1						
3	1	172480-45150-1	LEVER ASSY	1	1						
4	1	172480-45170-1	LEVER ASSY	1	1						
5	1	172480-45380-1	PLATE, BOOT	2	2						
6	1	172458-46730	BOLT N6X30	6	6						
7	1	172165-47871	KNOB ASSY	1	1						1
8	1	26587-040062	SCREW, M4X 6	2	2						
9	1	26736-140002	NUT, M14	2	2						

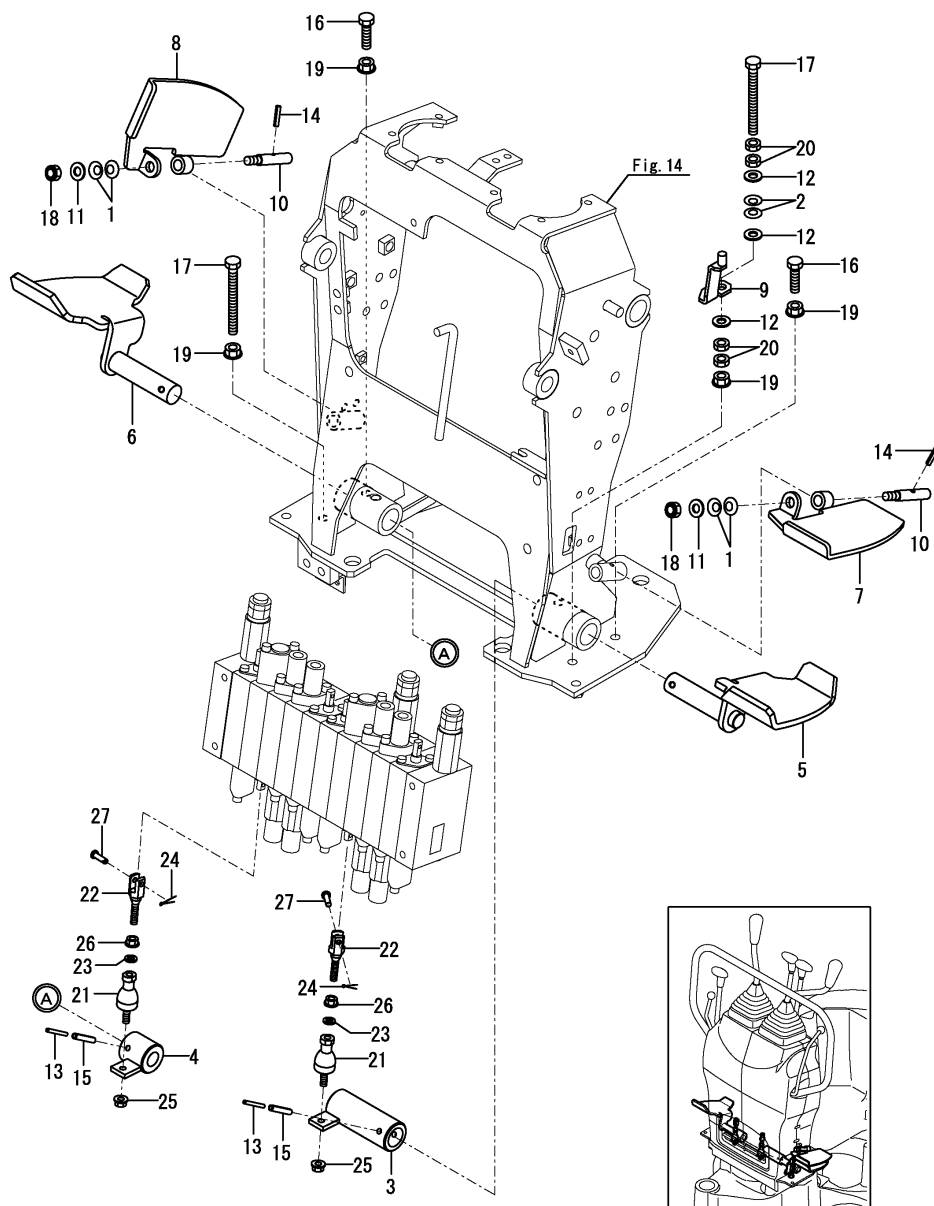
Remarks
(1)A knob with a built in horn switch.

OCS10-M56101 CONTROL EQUIPMENT

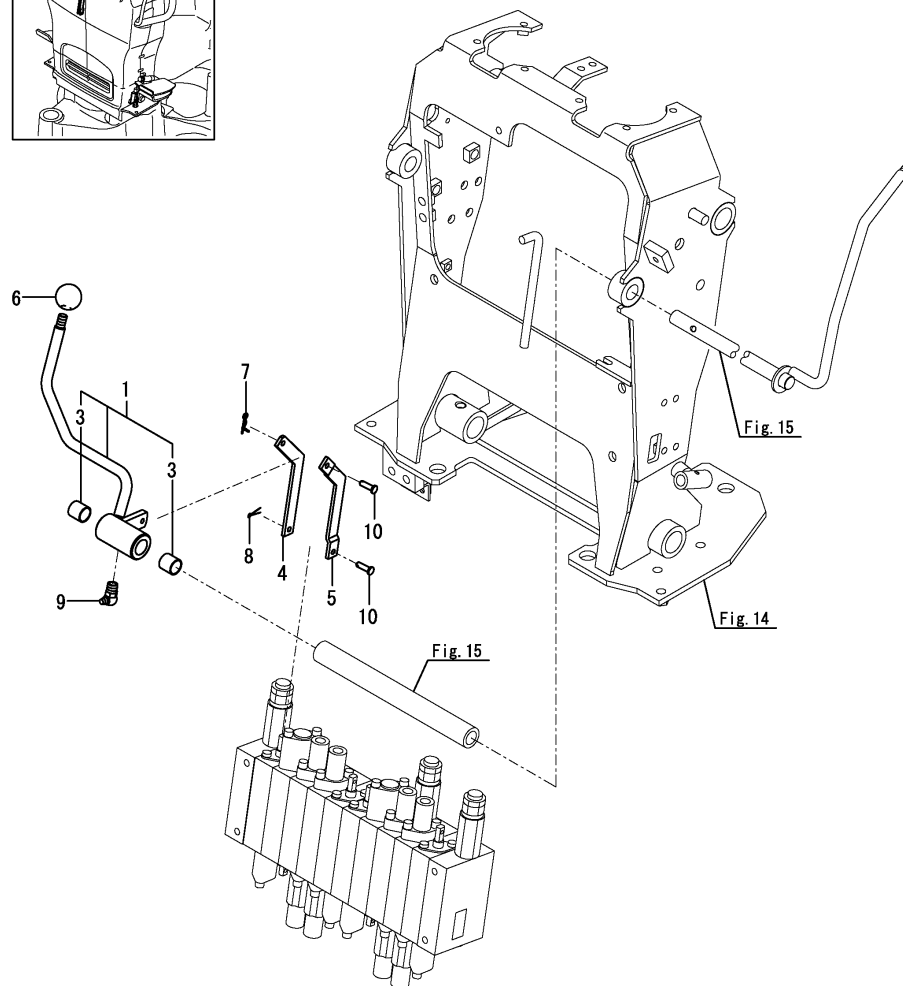
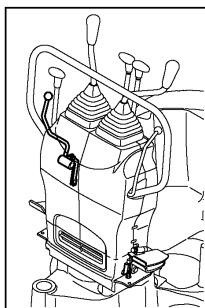
Fig.17. TRAVEL LEVER & BLADE LEVER



				Description	Q'ty						I	R
No.	Lev.	Parts No.			(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172447-45100		LINK, BLADE CMP	1	1						
2	1	172480-45100-1		LEVER ASSY, TRACK	1	1						
3	2	172141-41370		BUSH	2	2						
5	1	172480-45120-1		LEVER ASSY, TRACK	1	1						
6	2	172141-41370		BUSH	2	2						
8	1	172480-45210-1		LEVER ASSY, BLADE	1	1						
9	1	172164-45951		GRIP, DRIVE	1	1						
10	1	172164-45961		GRIP, DRIVE	1	1						
11	1	172164-45970		GRIP, BLADE	1	1						
12	1	172124-46200		O-RING	4	4						
13	1	22217-080000		WASHER, SPRING 8	1	1						
14	1	24761-050000		NIPPLE, GREASE C	2	2						
15	1	26116-080454		BOLT, M8X 45 PLATED	1	1						
16	1	26346-080002		NUT, M8	1	1						
17	1	26756-100002		NUT, LOCK M10	2	2						
18	1	172480-45900		ROD-A	2	2						
19	1	172480-45910		ROD-B	1	1						
20	1	172122-47250		BALL 8, LINK	3	3						
21	1	22117-080000		WASHER, 8	2	2						
22	1	22117-080000		WASHER, 8	1	1						
23	1	22417-160160		PIN, COTTER 1.6X16	2	2						
24	1	22417-160160		PIN, COTTER 1.6X16	1	1						
25	1	26051-080002		NUT, M8	3	3						
26	1	26051-080002		NUT, M8	2	2						
27	1	26051-080002		NUT, M8	1	1						
28	1	933110-54100		PIN	2	2						
29	1	933110-54100		PIN	1	1						

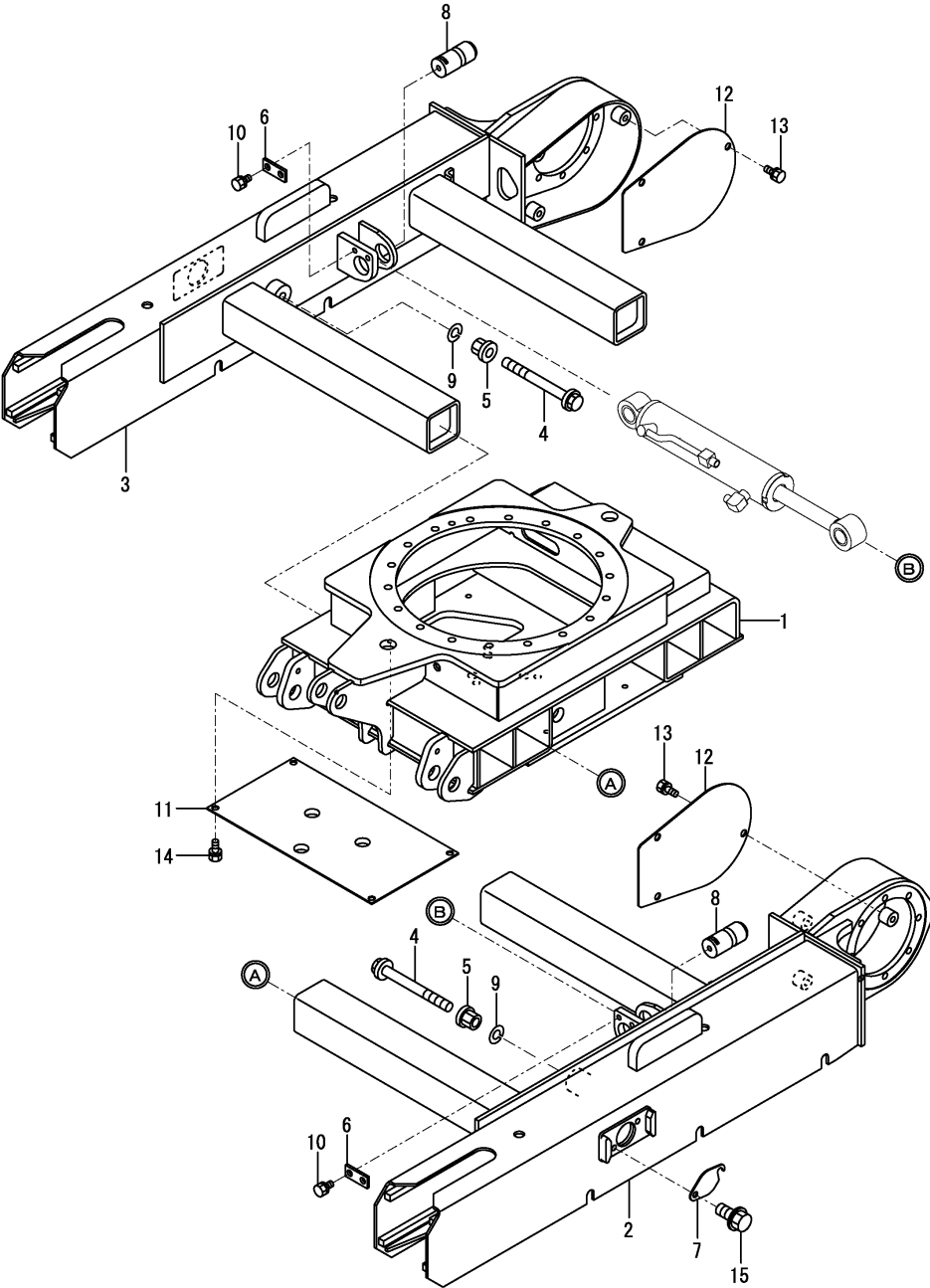


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172068-28490	SPRING	4	4						
2	1	172068-28490	SPRING	2	2						
3	1	172480-45650-1	LINK ASSY, PEDAL	1	1						
4	1	172480-45660-1	LINK ASSY, PEDAL	1	1						
5	1	172480-45750-1	PEDAL ASSY	1	1						
6	1	172480-45780-1	PEDAL ASSY	1	1						
7	1	172480-45830-1	COVER ASSY, PEDAL	1	1						
8	1	172480-45860-1	COVER ASSY, PEDAL	1	1						
9	1	172480-45880-1	LOCK ASSY, PTO	1	1						
10	1	172186-45900	SHAFT, PEDAL	2	2						
11	1	22137-080000	WASHER, 8	2	2						
12	1	22137-080000	WASHER, 8	3	3						
13	1	22351-030032	PIN, SPRING 3.0X32	2	2						
14	1	22351-040020	PIN, SPRING 4.0X20	2	2						
15	1	22351-050032	PIN, SPRING 5.0X32	2	2						
16	1	26116-080304	BOLT, M8X 30 PLATED	2	2						
17	1	26116-080804	BOLT, M8X 80 PLATED	2	2						
18	1	26346-080002	NUT, M8	2	2						
19	1	26366-080002	NUT, M8	4	4						
20	1	26757-080002	NUT, LOCK M8	4	4						
21	1	172157-45630	BALL 6, LINK	2	2						
22	1	172480-45920	ROD-C	2	2						
23	1	22117-060000	WASHER, 6	2	2						
24	1	22417-160160	PIN, COTTER 1.6X16	2	2						
25	1	26051-060002	NUT, M6	2	2						
26	1	26051-060002	NUT, M6	2	2						
27	1	933110-54100	PIN	2	2						



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

OCS10-M56101 FRAME
Fig.20. TRACK FRAME

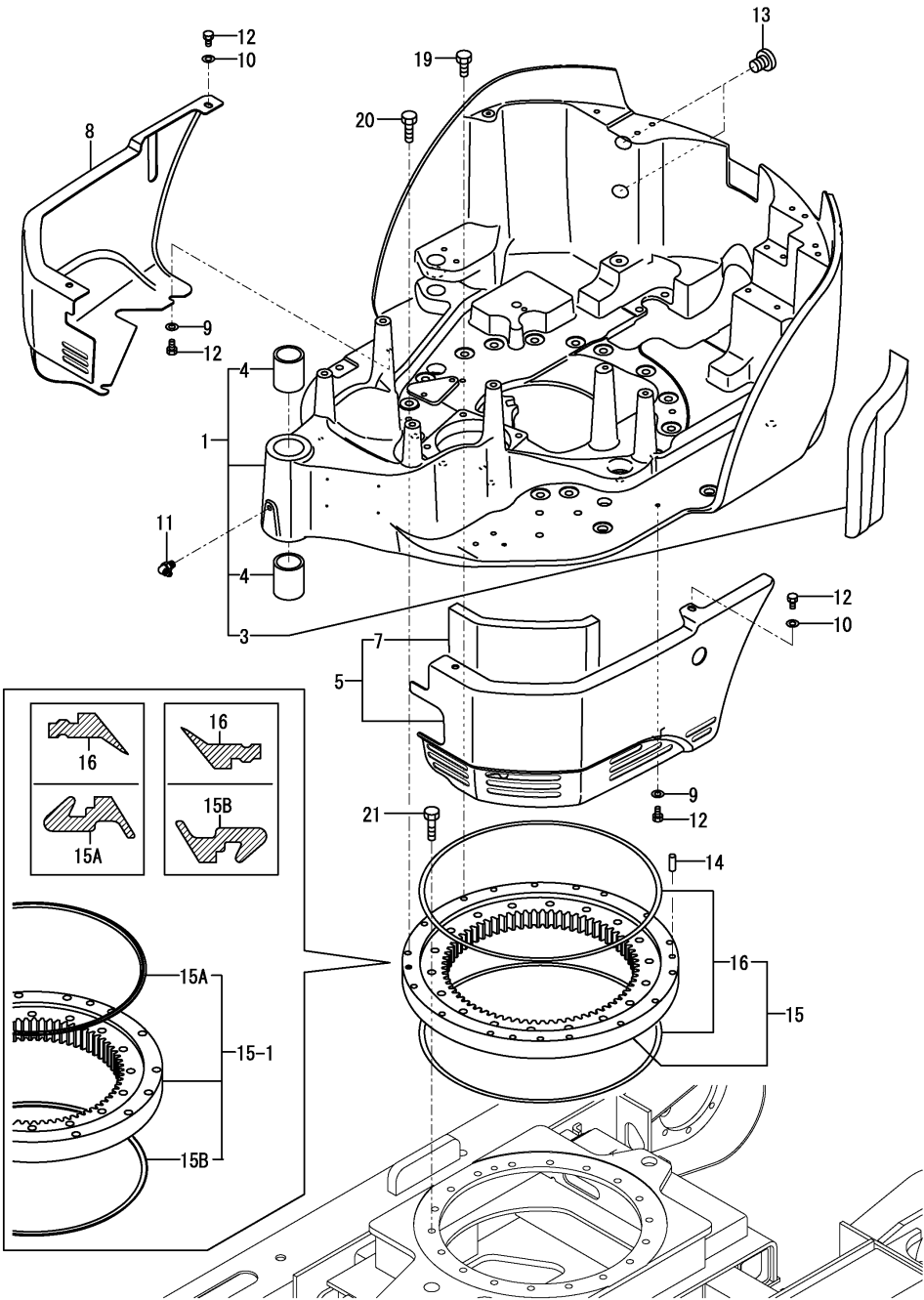


0CS10-M56101 Fig.20												
(A)=VIO10-2A(KR)												
(B)=VIO10-2B(KR)												
(C)=												
(D)=												
(E)=												
(F)=												
No.	Lev.	Parts No.	Description	(A)	(B)	Q'ty	(C)	(D)	(E)	(F)	I	R
1	1	172480-50200-1	FRAME ASSY, LOWER	1	1							
2	1	172480-50402-1	FRAME, CRAWLER	1	1							
3	1	172480-50412-1	FRAME, CRAWLER	1	1							
4	1	172480-50480	BOLT ASSY, STOPPER	2	2							
5	1	172448-50720	NUT ASSY, STOPPER	2	2							
6	1	172448-50770-2	PLATE	2	2							
7	1	172458-50480-2	COVER, FRAME	2	2							
8	1	172480-50910	PIN 33 X 64	2	2							
9	1	22217-160000	WASHER, SPRING 16	2	2							
10	1	26013-100162	BOLT, M10X 16	4	4							
11	1	172480-61300-1	COVER	1	1							
12	1	172447-61500-2	COVER, MOTOR	2	2							
13	1	26013-100202	BOLT, M10X 20	6	6							
14	1	26013-100202	BOLT, M10X 20	4	4							
15	1	26106-100122	BOLT, M10X 12 PLATED	4	4							

Fig.21. TURNING FRAME & TURNING BEARING

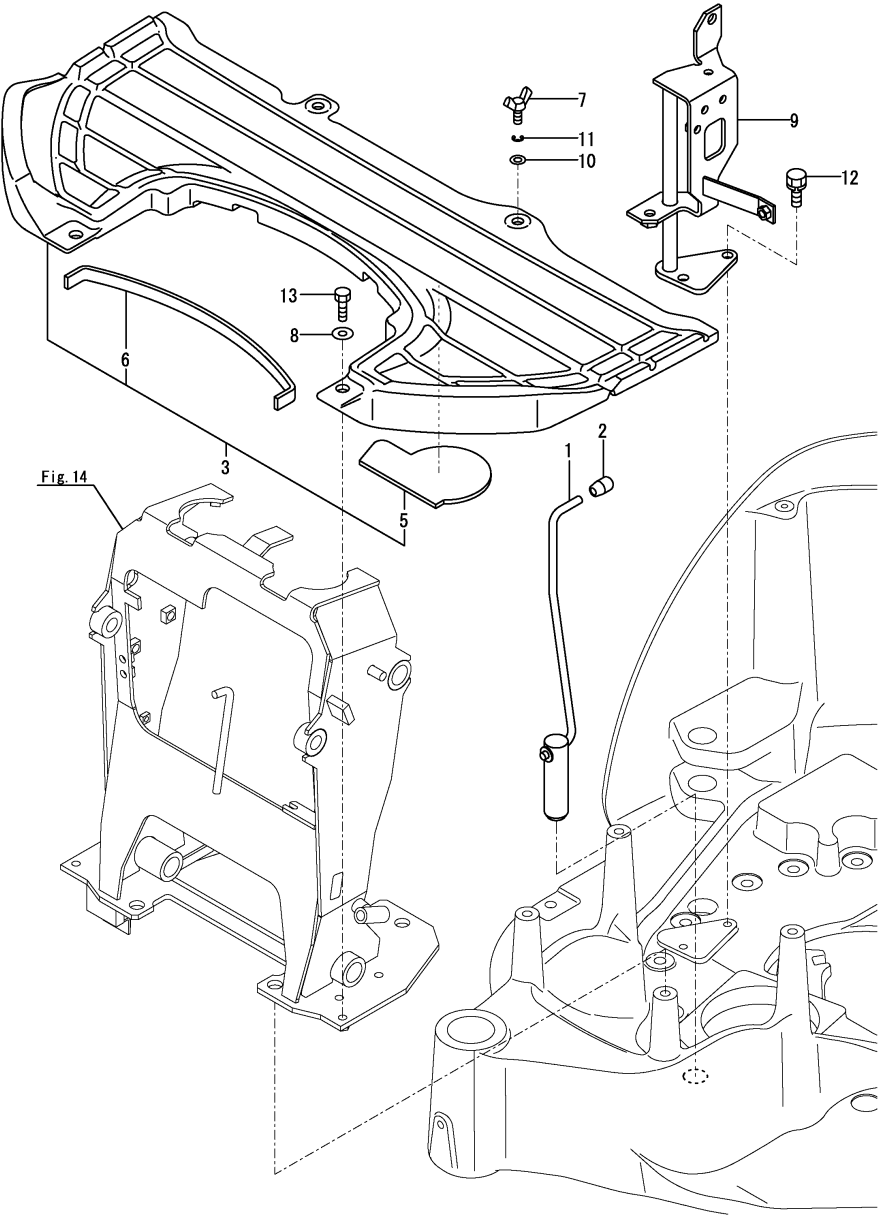
(A)=VIO10-2A(KR)
(B)=VIO10-2B(KR)
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A54-54100-1	FRAME ASSY, TURNING	1							
1-1	1	172A54-54101	FRAM,TURNING(GRAY:49	1	1					N	
(A=M27001)											
3	2	172480-54130	SEAL, FRAME	1	1						
4	2	172447-54540	PIN BUSH 40-60	2	2						
5	1	172A54-54200-3	COVER, FRAME	1	1						
5-1	1	172A54-54200-Y	COVER, FRAME	1	1					S	
(A=M2F001) (B=M2F001)											
7	2	172480-54220	SPONGE	1	1						
8	1	172480-54260-3	COVER, FRAME	1	1						
8-1	1	172480-54260-Y	COVER, FRAME	1	1					S	
(A=M2F001) (B=M2F001)											
9	1	1A1380-62160	WASHER, BELT COVER	4	4						
10	1	22137-080000	WASHER, 8	2	2						
11	1	24761-050000	NIPPLE, GREASE C	1	1						
12	1	26116-080162	BOLT, M8X 16 PLATED	6	6						
13	1	172480-54150	PLUG	4	4						
14	1	194940-24350	PIN, PARALLEL 10X28	3	3						
15	1	172447-57600	BEARING, SWING	1	1						
15-1	1	172447-57601	BEARING, TURNING	1	1					R	
(A=*2019.03) (B=*2019.03)											
15A	2	172A64-57620	SEAL, A	1	1					W	
(A=*2019.03) (B=*2019.03)											
15B	2	172A64-57630	SEAL, B	1	1					W	
(A=*2019.03) (B=*2019.03)											
16	2	172149-57610	SEAL SET	1	1					Z	
(A=*2019.03) (B=*2019.03)											
19	1	26076-120302	BOLT, 10.912X 30	13	13						
20	1	26076-120402	BOLT, 10.912X 40	4	4						
21	1	26076-120452	BOLT, 10.912X 45	18	18						

Fig.22. STEP & TURNING LOCK



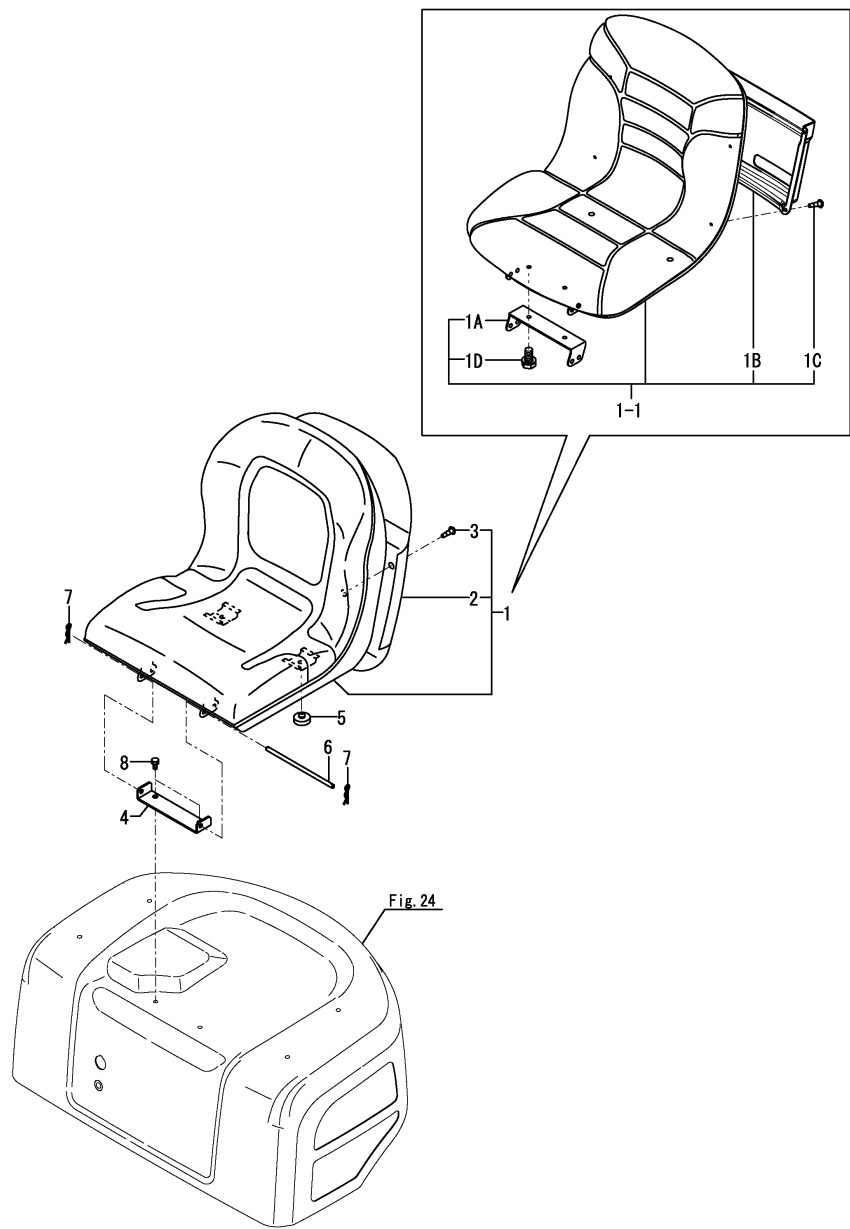
Remarks
(1)Color = DARK OLIVE GRAY.
(2)Color = BLACK.

(A)=VIO10-2A(KR)
(B)=VIO10-2B(KR)
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172480-58800	PIN ASSY, LOCK	1	1						
2	1	172157-58830	KNOB, 6.5X18X35	1	1						
3	1	172480-62100	STEP ASSY	1	1						1
3-1	1	172480-62400	STEP ASSY, BLACK	1	1					S	2
		(A=M2F002) (B=M2F002)									
5	2	172480-62120	INSULATOR	1	1						
6	2	172446-62220	SEAL, STEP	1	1						
7	1	172447-62150	WING BOLT M8X 20	2	2						
8	1	1A1380-62160	WASHER, BELT COVER	2	2						
9	1	172480-62200	MOUNT ASSY, STEP	1	1						
10	1	22137-080000	WASHER, 8	2	2						
11	1	22272-000060	RING, E- 6	2	2						
12	1	26013-100252	BOLT, M10X 25	2	2						
13	1	26116-080252	BOLT, M8X 25 PLATED	2	2						

OCS10-M56101 AROUND SEAT
Fig.23. SEAT & SEAT MOUNT

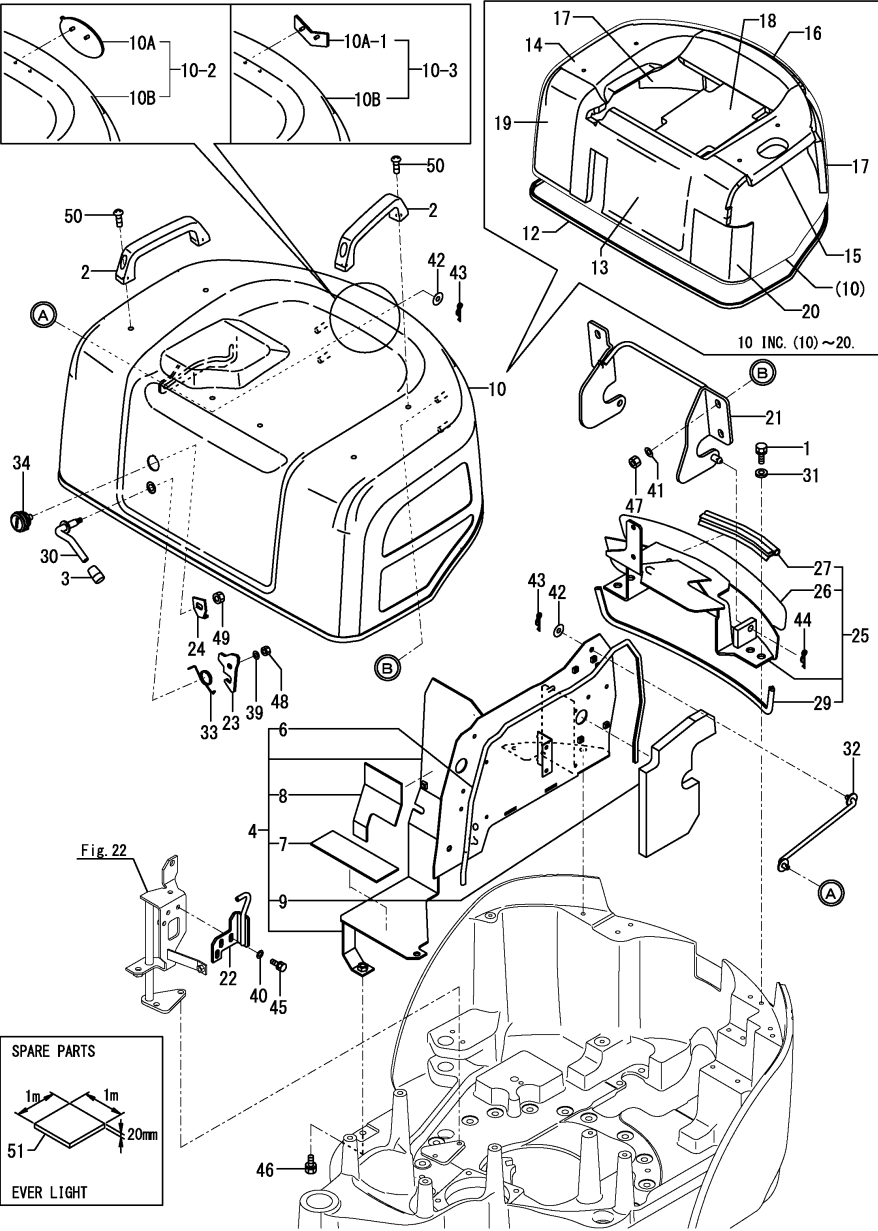


(A)=VIO10-2A(KR)
(B)=VIO10-2B(KR)
(C)=

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

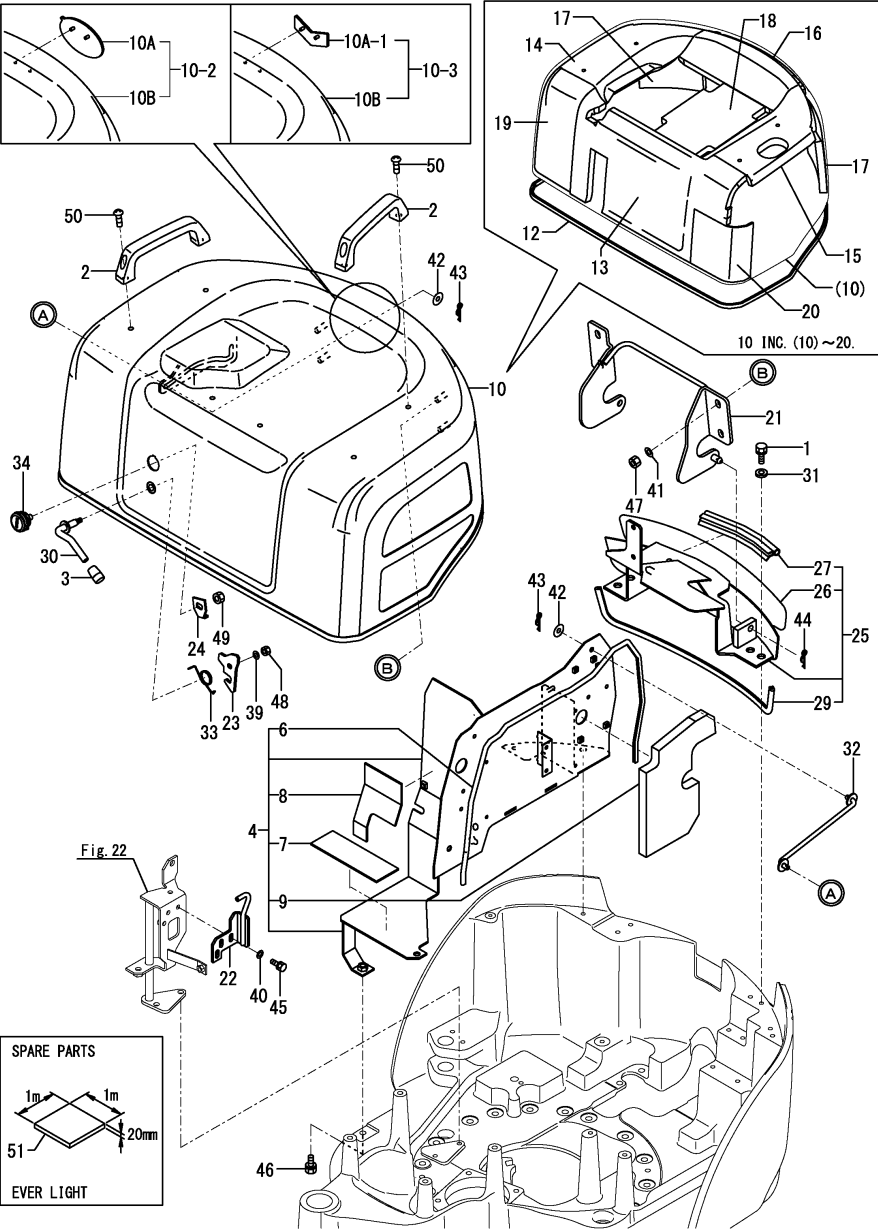
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A54-64100	SEAT ASSY, OPERATOR	1							
1-1	1	172A64-64010 (A=M27280)	SEATASSY, OPERATOR	1	1					N	
1-2	1	172A64-64011 (A=MBF002)	SEAT ASSY	1	1						R
1-3	1	172A64-64012 (A=M29924) (B=M29924)	SEAT ASSY	1	1						N
1A	2	172A64-64020 (A=M27280)	STAY, SEAT	1	1						W
1B	2	172A64-64030 (A=M27280)	CASE, LETTER	1	1						W
1C	2	172A64-64050 (A=M27280)	SCREW,TAPPING 6.0X16	4	4						W
1D	2	26013-080202 (A=M27280)	BOLT, M8X 20	2	2						W
1D-1	2	26106-080202 (A=MBF002)	BOLT, M8X 20 PLATED	2	2						R
2	2	172A54-64110 (A=M27280)	COVER, REAR	1							Z
3	2	172A54-64120 (A=M27280)	SCREW, TAPPING 5X16	4							Z
4	1	172446-64200-1	BRACKET, SEAT	1							1
4-1	1	172446-64200-2 (A=M23757)	BRACKET,SEAT(GREEN96	1						S	1
4-2	1	172446-64200-Y (A=M28001)	BRACKET,SEAT	1	1						S
4-3	1	172446-64200 (A=*2017.05.)	BRACKET, SEAT	1	1						N
5	1	172141-64370	CUSHION, SEAT	2	2						
6	1	172156-64420	PIN, 8-195	1	1						
7	1	22372-080000	PIN, SNAP 8	2	2						
8	1	26013-080162	BOLT, M8X 16	2	2						

Remarks
(1)Interchangeable by No.4-3.



Remarks
(1)Spare parts.
(2)Refer to Fig.1.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172164-19130	BOLT M10X 25	4	4						
2	1	172164-45980	GRIP, BONNET	2							
2-1	1	172164-45981	GRIP, BONNET	2	2					N	
(A=M27249)											
3	1	172116-46630	KNOB, LEVER	1	1						
4	1	172480-62801	PLATE, PARTITION	1	1						
6	2	172480-62900	TRIM	1	1						
7	2	172446-62910	PLATE, RUBBER	1	1						
8	2	172480-62910	RUBBER PLATE-A	1	1						
9	2	172480-62920	SPONGE	1	1						
10	1	172480-65101-1	BONNET ASSY	1							
10-1	1	172480-65101-3	BONNET ASSY	1						S	
(A=M23757)											
10-2	1	172A54-65580	BONNET KIT,ENBLEM Y	1	1					S	
(A=M28001)											
10-3	1	172A54-65581	BONNET KIT,ENBLEM YD	1	1					S	
(A=M2F001) (B=M2F001)											
10A	2	172A54-03050	EMBLEM ASSY	1	1					W	
(A=M28001)											
10A-1	2	172A54-03010	EMBLEM ASSY,FY S3 Y	1	1					S	
(A=M2F001) (B=M2F001)											
10B	2	172A54-65600-Y	BONNET ASSY	1	1					W	
(A=M28001)											
12	3	172480-65210	TRIM, 2500	1	1						
13	3	172480-65220	EV-A, BONNET	1	1						
14	3	172480-65230	EV-B, BONNET	1	1						
15	3	172480-65240	EV-C, BONNET	1	1						
16	3	172480-65250	EV-D, BONNET	1	1						
17	3	172480-65260	EV-E, BONNET	2	2						
18	3	172480-65271	EV F,BONNET	1	1						
19	3	172480-65280	INSULATOR	1	1						
20	3	172480-65290	INSULATOR	1	1						
21	1	172480-65301	ARM ASSY, BONNET	1	1						
22	1	172480-65350	HOOK ASSY	1	1						
23	1	172446-65371	PLATE	1	1						
24	1	172446-65380	PLATE	1	1						
25	1	172A54-65400	MOUNT ASSY, BONNET	1	1						
26	2	172480-03160	LABEL, REAR EMBLEM	1	1					Z	2
(A=*2016.04.) (B=*2016.04.)											
27	2	172162-15320	SEAL	1	1						
29	2	172146-68440	RUBBER, SEAL	1	1						
30	1	172480-65450	LEVER ASSY	1	1						
31	1	172446-65470	WASHER, 10.5-22	4	4						
32	1	172480-65470	LINK, OPEN & SHUT	1	1						
33	1	172156-65690	SPRING, STOPPER	1	1						
34	1	172164-66170	KEY ASSY, CYLINDER	1	1						
39	1	22137-080000	WASHER, 8	1	1						
40	1	22137-080000	WASHER, 8	3	3						
41	1	22137-100000	WASHER, 10	4	4						
42	1	22157-080000	WASHER, 8	2	2						
43	1	22372-080000	PIN, SNAP 8	2	2						



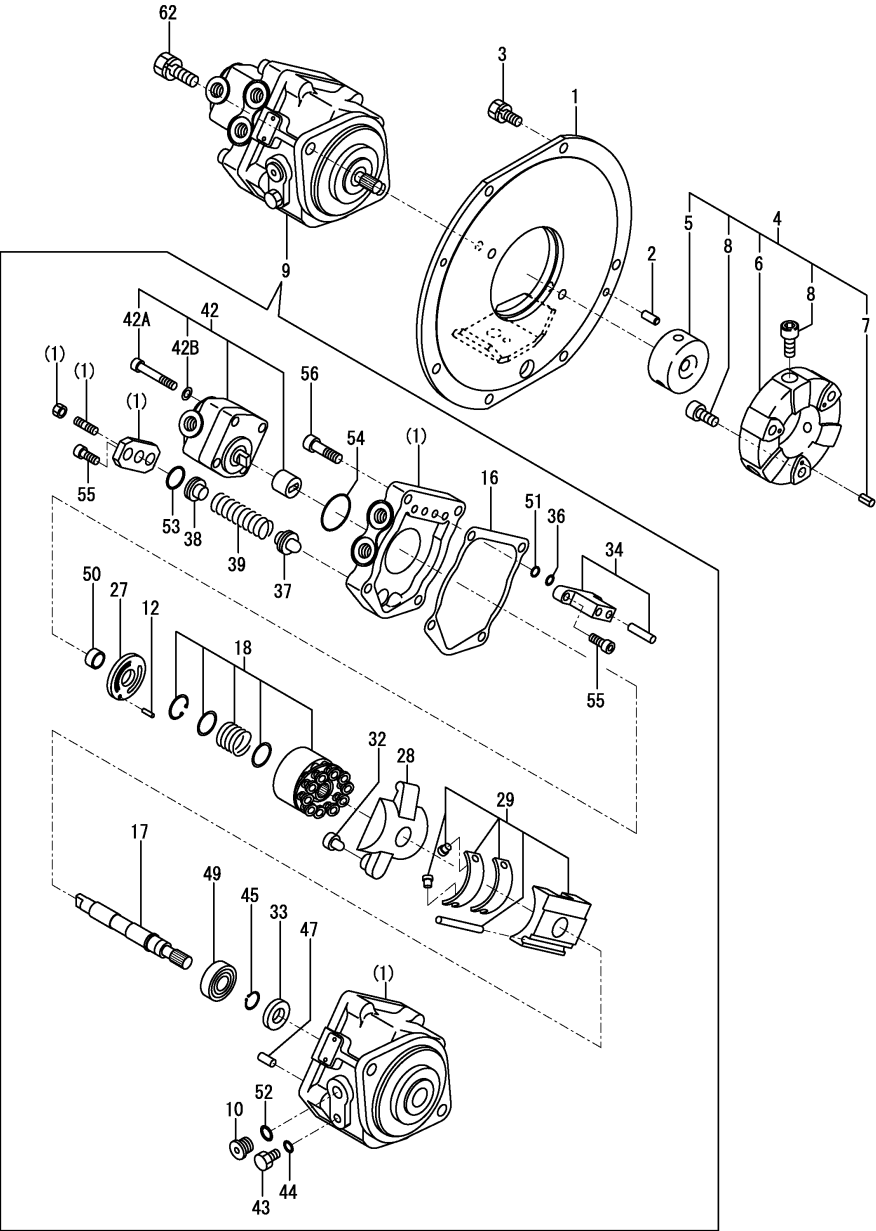
(A)=VIO10-2A(KR)
(B)=VIO10-2B(KR)
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
44	1	22372-120000	PIN, SNAP 12	2	2						
45	1	26013-080202	BOLT, M8X 20	3	3						
46	1	26013-100202	BOLT, M10X 20	4	4						
47	1	26051-100002	NUT, M10	4	4						
48	1	26347-080002	NUT, M8	1	1						
49	1	26347-100002	NUT, M10	1	1						
50	1	26557-080202	SCREW, M8X20	4	4						
51	1	172478-65750	SPONGE	1	1						1

Remarks
(1)Spare parts.
(2)Refer to Fig.1.

Fig.25. HYDRAULIC PUMP & JOINT(PUMP : K SPEC.)(TO M28674)



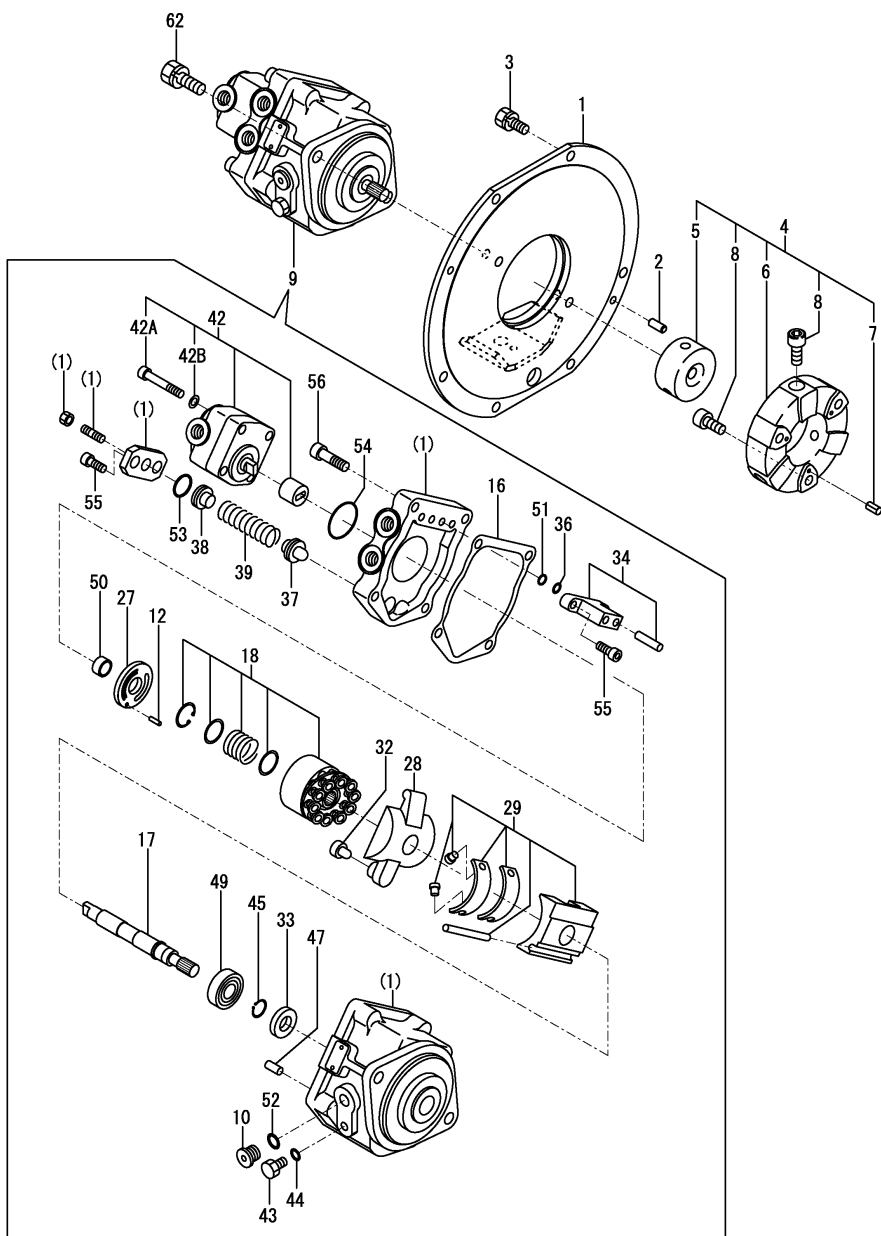
(A)=VIO10-2A(KR)
(B)=VIO10-2B(KR)
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172480-71100	MOUNT ASSY, PUMP	1							
2	1	22312-080200	PIN, PARALLEL M8X20	2							
3	1	26013-100202	BOLT, M10X 20	6							
4	1	172157-71210	COUPLING ASSY	1							
5	2	172157-71201	JOINT	1							
6	2	172137-71220	COUPLING, CF-8	1							
7	2	22351-040008	PIN, SPRING 4.0X 8	3							
8	2	26450-100302	BOLT, M10X 30	6							
9	1	758842-86101	PUMP ASSY, HYDRAULIC	1							
9-1	1	758842-86102	PUMP ASSY, HYDRAULIC	1							N
(A=M24278)											
10	2	178076-12400	PLUG, G1/4	1							
12	2	158802-85040	PIN, PARALLEL 4X14	1							
16	2	158842-86030	GASKET, PORT BLOCK	1							
17	2	158843-86060	SHAFT	1							
18	2	158842-86140	BLOCK ASSY, PLUNGER	1							W
(A=M24278)											
27	2	158842-86210	PLATE, VALVE	1							
28	2	158842-86300	CRADLE	1							
28-1	2	158842-86301	CRADLE	1							R
(A=M24278)											
29	2	158842-86291	HOLDER ASSY, CRADLE	1							W
(A=M24278)											
32	2	158842-86360	RETAINER, SPRING	1							
33	2	158842-86410	SEAL, OIL 17305	1							
34	2	158842-86520	GUIDE SET, PISTON	1							W
(A=M24278)											
36	2	158842-86550	PIECE, THROTTLE	2							
37	2	158842-86610	RETAINER, SPRING A	1							
38	2	158842-86620	RETAINER, SPRING B	1							
39	2	158842-86640	SPRING, OUTSIDE	1							
42	2	158843-86800	PUMP ASSY, GEAR	1							
42A	3	26450-080502	BOLT, M8X 50	2							
42B	3	22117-080000	WASHER, 8	2							
43	2	158842-86910	PLUG, HEXAGON M10X10	1							
44	2	22190-100003	WASHER, SEAL 10	1							
45	2	22242-000170	RING, 17	1							
47	2	22312-060100	PIN, PARALLEL M6X10	2							
49	2	24101-062034	BEARING, BALL 6203	1							
50	2	24162-152112	BEARING, 152112	1							
51	2	24311-000090	O-RING, 1AP9.0	2							
51-1	2	24315-000090	O-RING, 1BP9.0	2							N
(A=M24032)											
52	2	24311-000110	O-RING, 1AP11.0	1							
52-1	2	24315-000110	O-RING, 1BP11.0	1							N
(A=M24032)											
53	2	24311-000220	O-RING, 1AP22.0	1							
53-1	2	24315-000220	O-RING, 1BP22.0	1							N
(A=M24032)											
54	2	24341-000390	O-RING, 1AS39.0	1							
55	2	26450-080202	BOLT, M8X 20	4							

Remarks
* Hydraulic oil pump exchange kit, for Fig.63(25A) is shown in Fig.73.

Fig.25. HYDRAULIC PUMP & JOINT(PUMP : K SPEC.)(TO M28674)



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
56	2	26450-100352	BOLT, M10X 35	4							
62	1	26013-120302	BOLT, M12X 30	2							

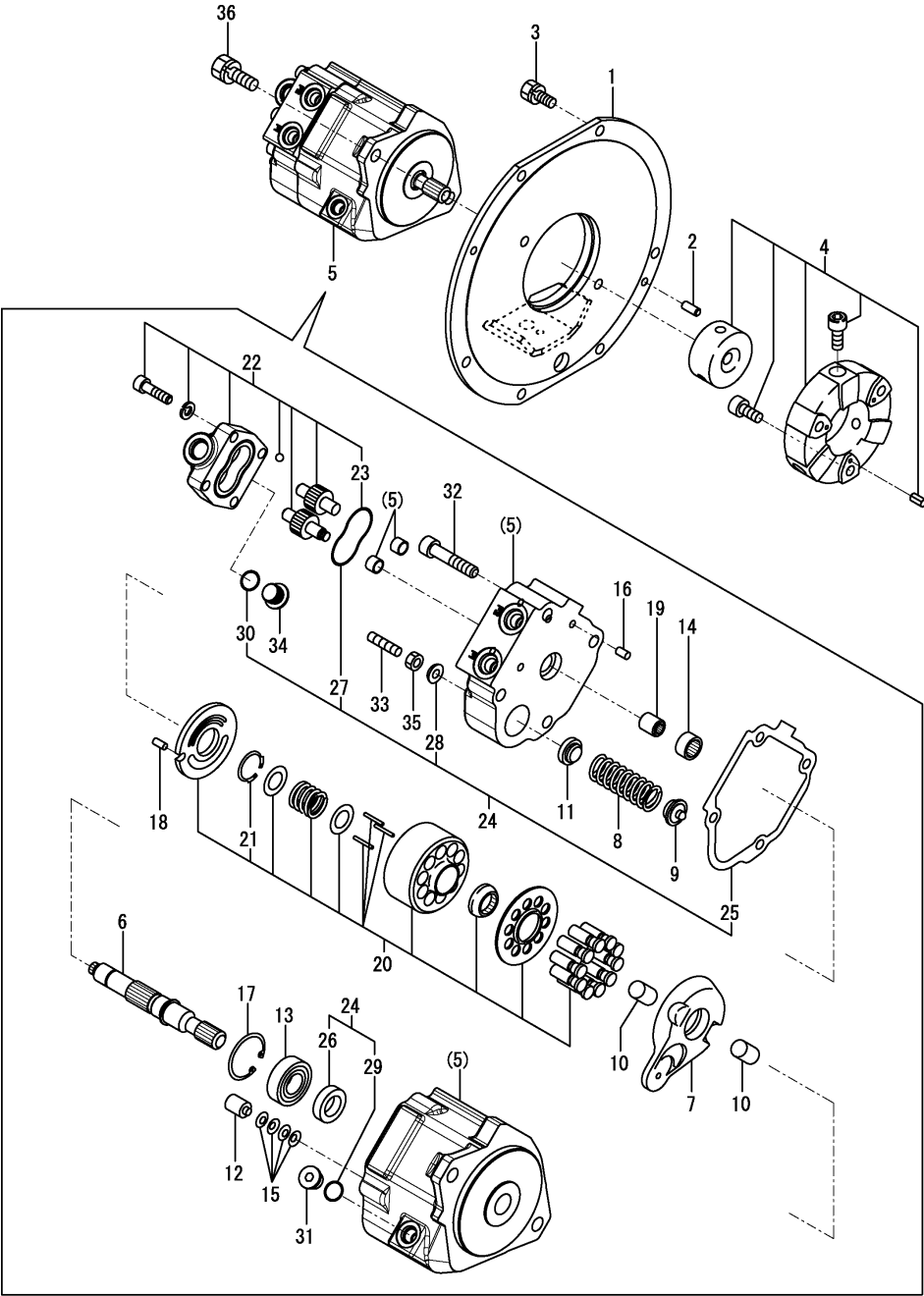
* Hydraulic oil pump exchange kit, for Fig.63(25A) is shown in Fig.73.

N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.63. (25A)HYDRAULIC PUMP & JOINT(PUMP : F SPEC.)(FROM M28675)

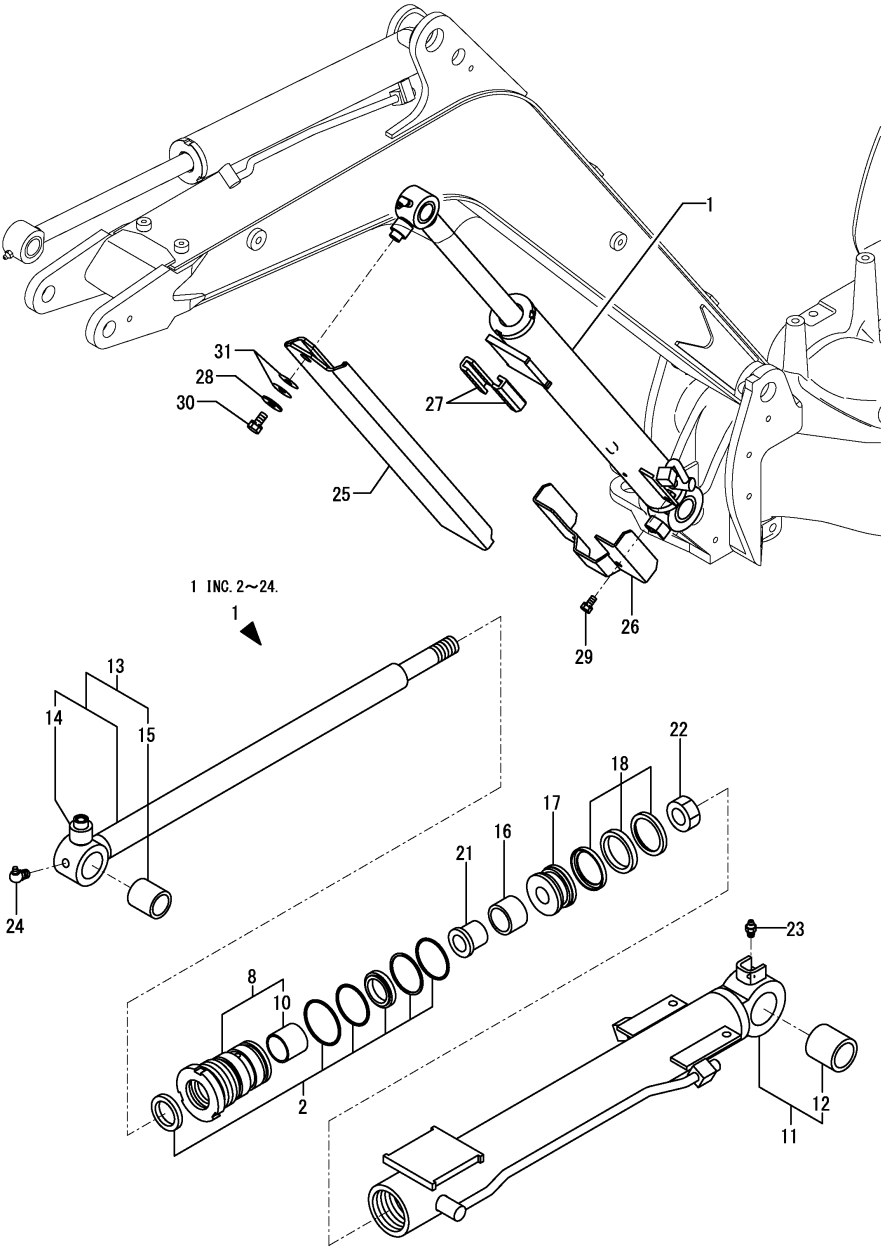
(A)=VIO10-2A(KR)
(B)=VIO10-2B(KR)
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172480-71100	MOUNT ASSY,PUMP	1	1						
2	1	22312-080200	PIN, PARALLEL M8X20	2	2						
3	1	26013-100202	BOLT, M10X 20	6	6						
4	1	172A54-71210	JOINT ASSY,PUMP	1	1						
5	1	172A54-73100	PUMP ASSY,PVD	1	1						W
(A=M28675)											
6	2	172A54-73110	SHAFT	1	1						
7	2	172A54-73120	PLATE,SWASH	1	1						
8	2	172A54-73140	SPRING,T1	1	1						
9	2	172A54-73150	HOLDER,SPRING	1	1						
10	2	172422-73160	PIN	2	2						
11	2	172A54-73160	GUIDE,SPRING	1	1						
12	2	172A54-73170	PIN,STOPPER A	1	1						
13	2	172A54-73180	BALL,BEARING	1	1						
14	2	172A54-73190	NEEDLE,BEARING	1	1						
15	2	172A54-73210	SPRING,DISH	4	4						
16	2	172422-73220	PIN	2	2						
17	2	172A54-73220	RING,SNAP 42	1	1						
18	2	172A54-73240	PIN,SPRING 5-12	1	1						
19	2	172A54-73250	JOINT	1	1						
20	2	172A54-73270	BARREL KIT,CYL PVD	1	1						
21	3	172A54-73230	RING,SNAP 28	1	1						
22	2	172A54-73280	PUMP KIT,GEAR PVD	1	1						
23	3	172A54-73260	O-RING, 50-V	1	1						
24	2	172A54-73290	SEAL KIT,PVD	1	1						
25	3	172A54-73130	PACKING	1	1						
26	3	172A54-73200	SEAL, OIL	1	1						
27	3	172A54-73260	O-RING, 50-V	1	1						
28	3	172422-73570	WASHER	1	1						
29	3	24315-000110	O-RING, 1BP11.0	1	1						
30	3	24315-000140	O-RING, 1BP14.0	1	1						
31	2	172422-73530	PLUG	1	1						
32	2	172422-73540	BOLT	4	4						
33	2	172422-73560	SCREW	1	1						
34	2	172458-73640	PLUG	1	1						
35	2	26711-080002	NUT, M8	1	1						
36	1	26013-120302	BOLT, M12X 30	2	2						

Fig.26. BOOM CYLINDER



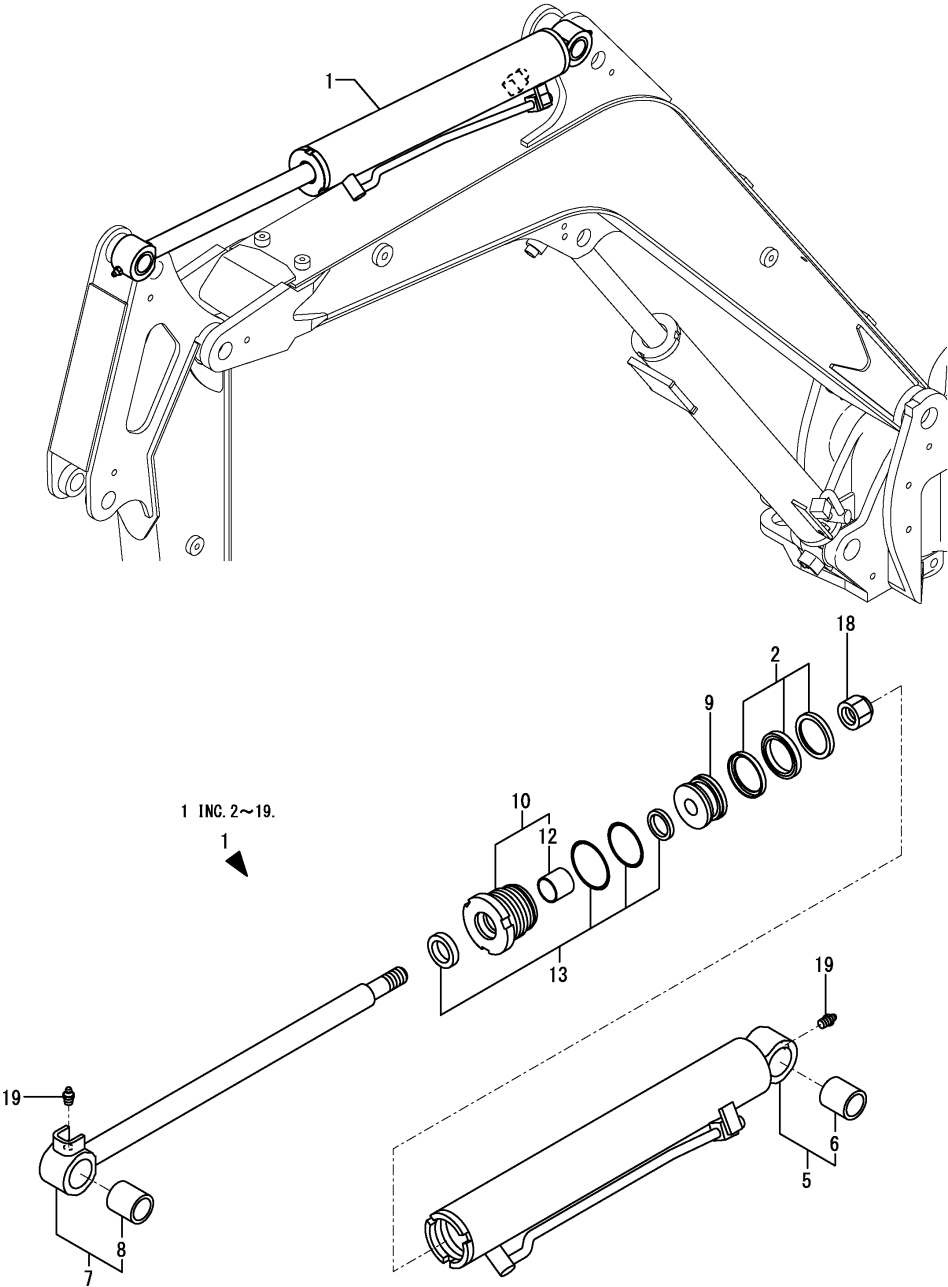
Remarks
(1)Welded part.

OCS10-M56101 Fig.26												
				(A)=VIO10-2A(KR) (B)=VIO10-2B(KR) (C)=	(D)= (E)= (F)=							
No.	Lev.	Parts No.	Description	Q'ty							I	R
				(A)	(B)	(C)	(D)	(E)	(F)			
1	1	172480-72100-1	CYLINDER ASSY, BOOM	1								
1-1	1	172480-72100-2	CYLINDER ASSY, BOOM	1							S	
(A=M23757)												
1-2	1	172480-72100-N	CYLINDER ASSY, BOOM	1	1						S	
(A=M28001)												
2	2	172447-72010	SEAL SET, HEAD 50X30	1	1							
8	2	172447-72110	HEAD ASSY, 50 30	1	1							
10	3	24550-030300	BUSH, 30X30	1	1							
11	2	172480-72170-1	TUBE ASSY, BOOM	1								
11-1	2	172480-72170-2	TUBE ASSY, BOOM	1							S	
(A=M23757)												
11-2	2	172480-72170-N	TUBE ASSY, BOOM	1	1						S	
(A=M28001)												
12	3	933125-05400	BUSH, PIN 30 40 A	1	1							
13	2	172480-72180	ROD ASSY, BOOM	1	1							
14	4	172169-72340	SEAT, SCREW M10X29.3	1	1						1	
15	3	172156-72770	BUSH, PIN 25 35 B	1	1							
16	2	172480-72160	RING, CUSHION 36 A	1	1							
17	2	172447-72311	PISTON, 50 20X28	1	1							
17-1	2	172447-72312	PISTON,50X20X28	1	1						N	
(A=M2G227) (B=M2G227)												
18	2	172447-72321	GASKET ASSY, RGU50	1	1							
18-1	2	172A54-72320	PACKING, BRL50 ASSY	1	1						N	
(A=M2G227) (B=M2G227)												
21	2	172447-72370	COLLAR, 36	1	1							
22	2	172141-72580	U-NUT, M20	1	1							
23	2	24761-020000	NIPPLE, GREASE PT1/8	1	1							
24	2	24761-040000	NIPPLE, GREASE B	1	1							
25	1	172480-72150-1	COVER, SLIDE	1								
25-1	1	172480-72150-2	COVER, SLIDE	1							S	
(A=M23751)												
25-2	1	172480-72150-N	COVER, SLIDE	1	1						S	
(A=M28001)												
26	1	172447-72360-1	COVER, CYLINDER HOSE	1								
26-1	1	172447-72360-2	COVER, HOSE	1							S	
(A=M23751)												
26-2	1	172447-72360-N	COVER, CYLINDER HOSE	1	1						S	
(A=M28001)												
27	1	172186-72480	GUIDE, SLIDE	2	2							
28	1	22157-100000	WASHER, 10	1								
28-1	1	933147-03400	WASHER, BRAKE ARM	1	1						N	
(A=M23806)												
29	1	26013-080162	BOLT, M8X 16	2	2							
30	1	26013-100202	BOLT, M10X 20	1	1							
31	1	933168-14170	SPRING, 16	2	2							

Fig.27. ARM CYLINDER

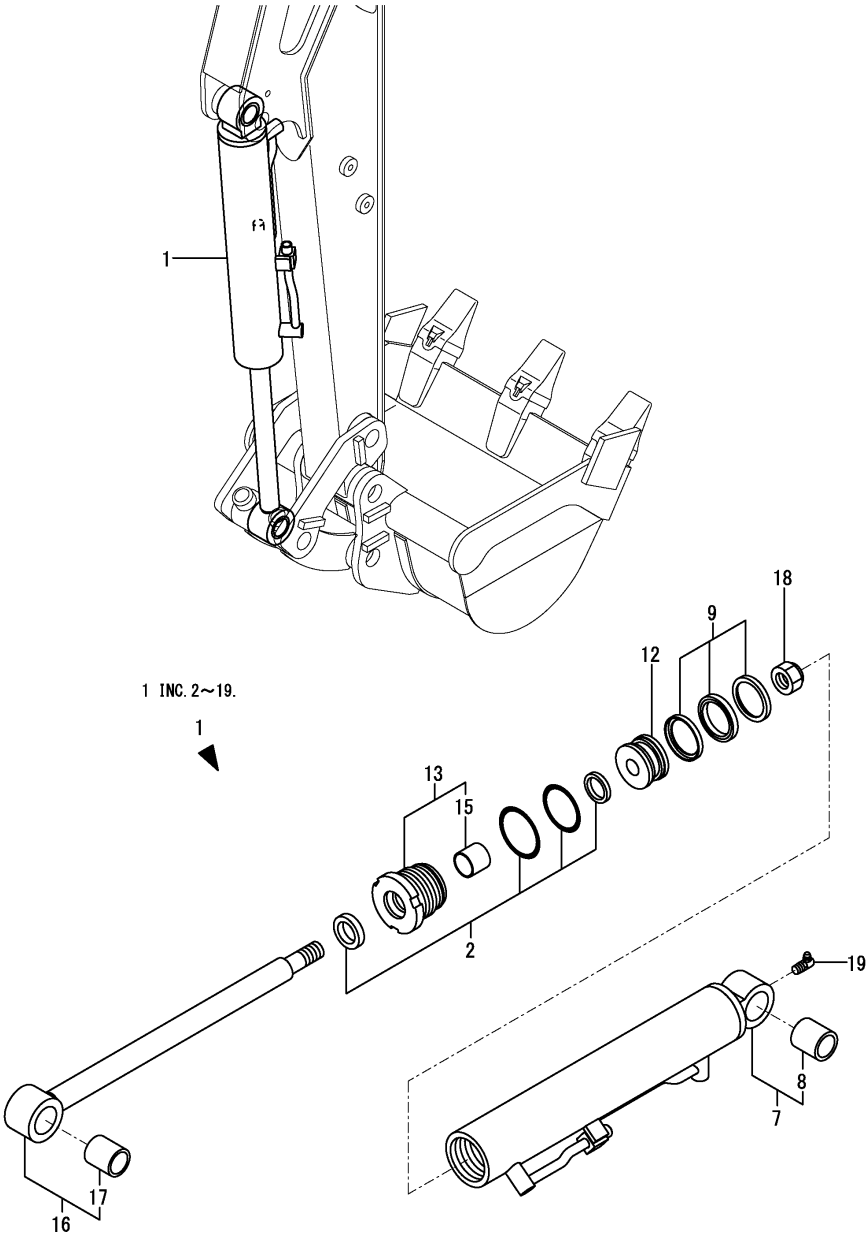
(A)=VIO10-2A(KR)
(B)=VIO10-2B(KR)
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172447-72400-1	CYLINDER ASSY, ARM	1							
1-1	1	172447-72401-1	CYLINDER ASSY, ARM	1						N	
(A=M/#23281)											
1-2	1	172447-72401-2	CYLINDER ASSY, ARM	1						S	
(A=M23757)											
1-3	1	172447-72401-N	CYLINDER ASSY, ARM	1	1					S	
(A=M28001)											
2	2	172447-72321	GASKET ASSY, RGU50	1	1						
2-1	2	172A54-72320	PACKING, BRL50 ASSY	1	1					N	
(A=M2G227) (B=M2G227)											
5	2	172447-72420-1	TUBE ASSY, ARM	1							
5-1	2	172447-72420-2	TUBE ASSY, ARM	1						S	
(A=M23757)											
5-2	2	172447-72420-N	TUBE ASSY, ARM	1	1					S	
(A=M28001)											
6	3	172156-72770	BUSH, PIN 25 35 B	1	1						
7	2	172447-72491	ROD ASSY, ARM	1	1						
8	3	172156-72770	BUSH, PIN 25 35 B	1	1						
9	2	172447-72531	PISTON, 50 18X28	1	1						
9-1	2	172447-72532	PISTON,50X18X28	1	1					N	
(A=M2G227) (B=M2G227)											
10	2	172157-72620	HEAD ASSY, 50 25 B	1	1						
12	3	24550-025250	BUSH, 25X25	1	1						
13	2	172157-72020	SEAL SET, HEAD 50B	1	1						
18	2	172186-72950	U-NUT, M18	1	1						
19	2	24761-020000	NIPPLE, GREASE PT1/8	2	2						

Fig.28. BUCKET CYLINDER



(A)=VIO10-2A(KR)
(B)=VIO10-2B(KR)
(C)=

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

Q'ty

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	172480-72200-1	CYLINDER ASSY, BUCKET	1							
1-1	1	172480-72200-2	CYLINDER ASSY, BUCKET	1							S
(A=M23757)											
1-2	1	172480-72200-N	CYLINDER ASSY, BUCKET	1	1						S
(A=M28001)											
2	2	172157-72020	SEAL SET, HEAD 50B	1	1						
7	2	172480-72250-1	TUBE ASSY, BUCKET	1							
7-1	2	172480-72250-2	TUBE ASSY, BUCKET	1							S
(A=M23757)											
7-2	2	172480-72250-N	TUBE ASSY, BUCKET	1	1						S
(A=M28001)											
8	3	172156-72770	BUSH, PIN 25 35 B	1	1						
9	2	172447-72321	GASKET ASSY, RGU50	1	1						
9-1	2	172A54-72320	PACKING, BRL50 ASSY	1	1						N
(A=M2G227) (B=M2G227)											
12	2	172447-72531	PISTON, 50 18X28	1	1						
12-1	2	172447-72532	PISTON, 50X18X28	1	1						N
(A=M2G227) (B=M2G227)											
13	2	172157-72620	HEAD ASSY, 50 25 B	1	1						
15	3	24550-025250	BUSH, 25X25	1	1						
16	2	172446-72640	ROD ASSY, BUCKET	1	1						
17	3	172156-72410	BUSH, PIN 25 35 A	1	1						
18	2	172157-72730	U-NUT, M18	1	1						
19	2	24761-050000	NIPPLE, GREASE C	1	1						

N:Old

Yes

 No New, Q:Old

No

 Yes New, R:Old

Yes

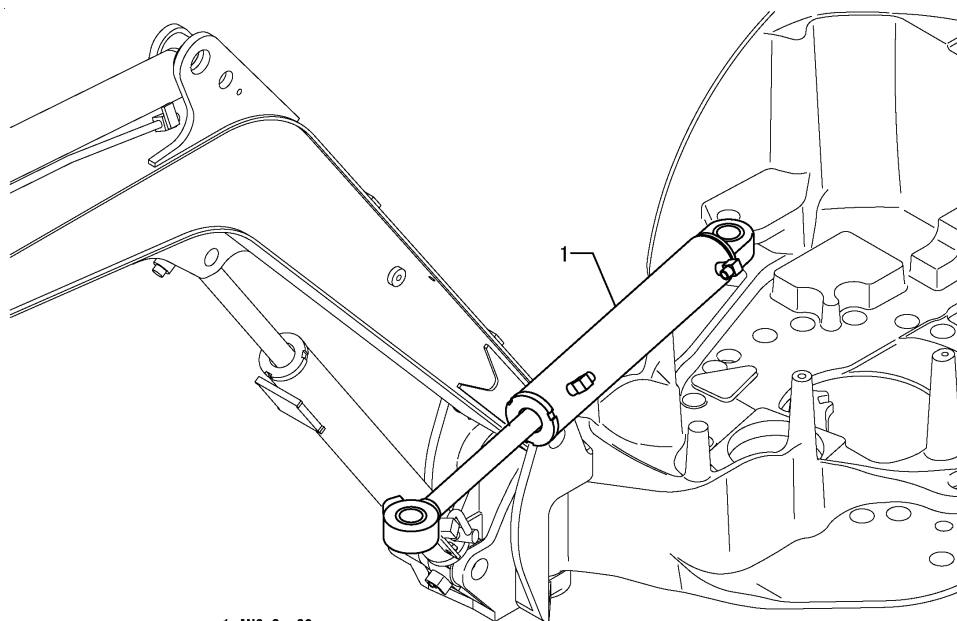
 No New, S:Old

No

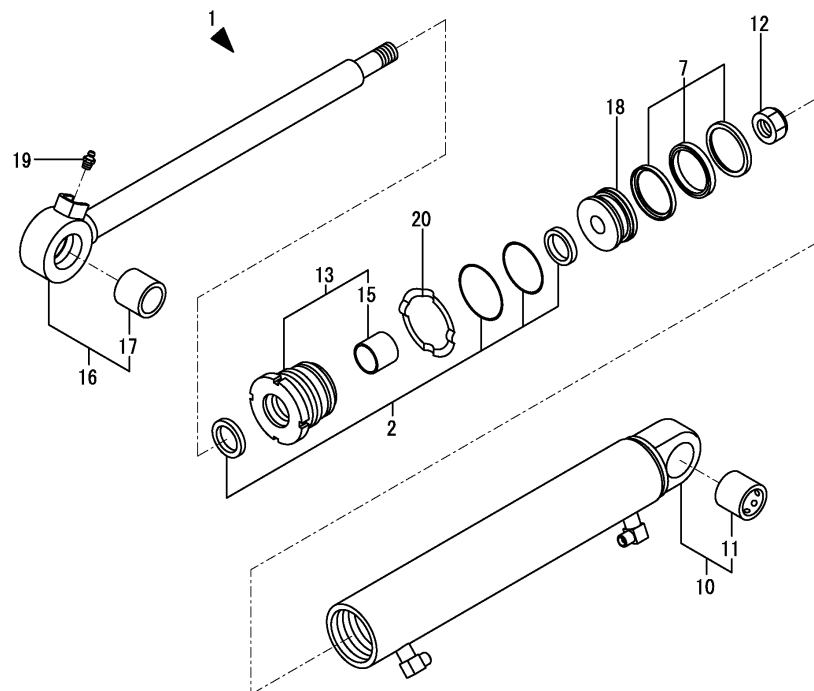
 Yes New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change

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Fig.29. SWING CYLINDER

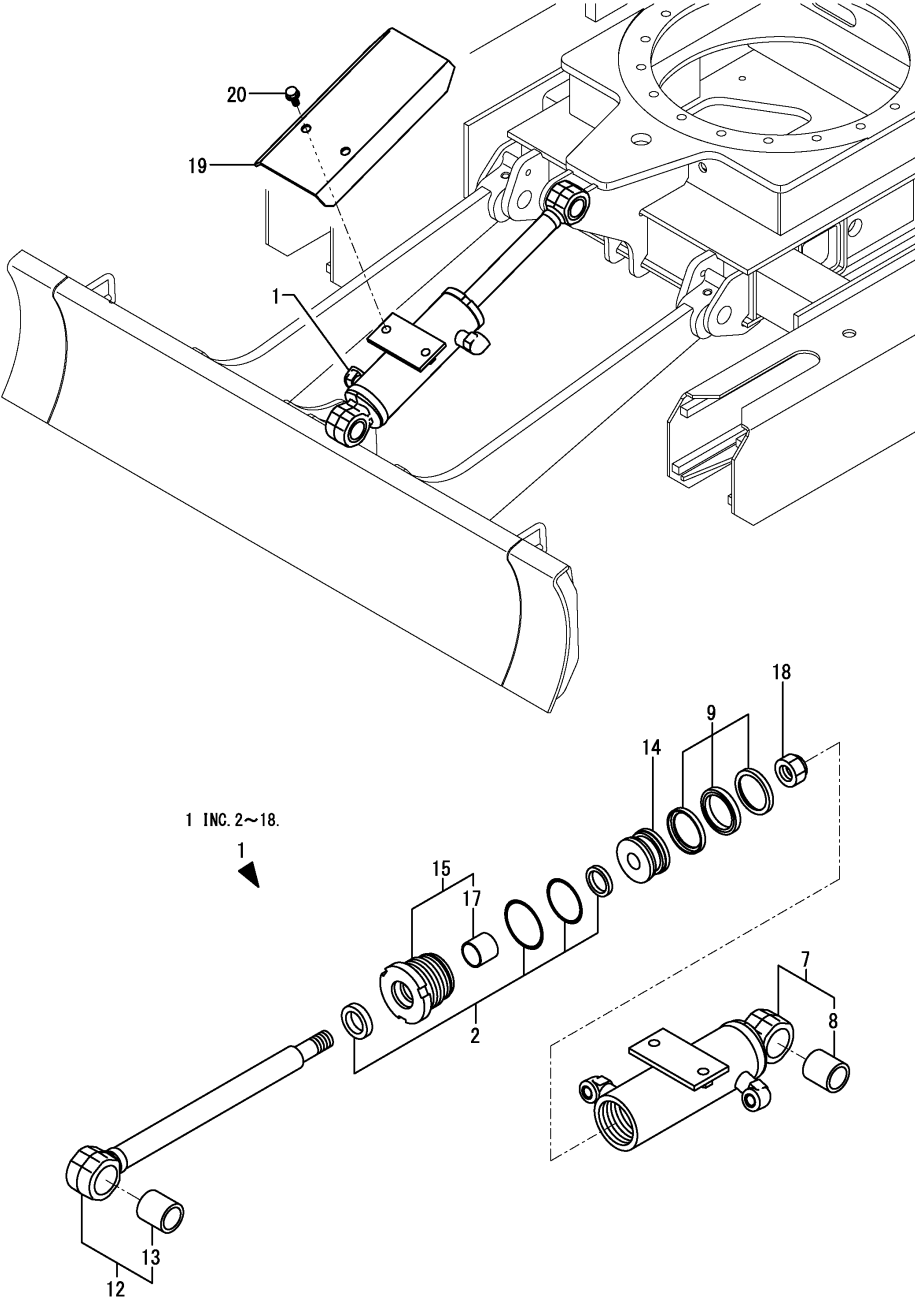


1 INC. 2~20.



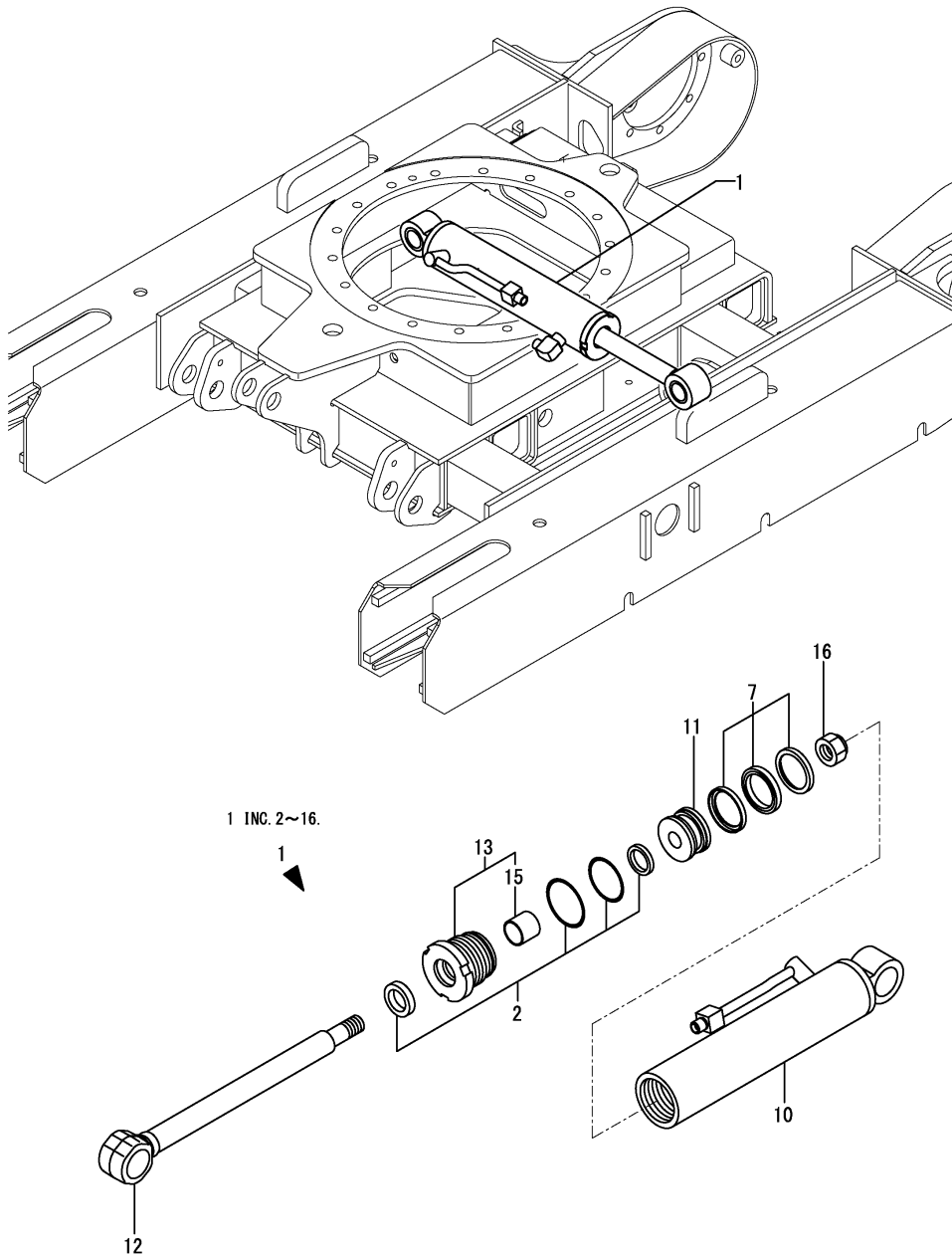
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172480-72400-1	CYLINDER ASSY, SWING	1	1						
2	2	172447-72020	SEAL SET, HEAD 60X30	1							
2-1	2	172A64-72020	SEAL SET, HEAD 60X30	1	1						R
(A=M23869)											
7	2	172638-72200	PACKING	1							
7-1	2	172638-72201	GASKET ASSY, RGU 60	1	1						N
(A=M/# 24023)											
7-2	2	172A64-70140	SEAL SET, RGU-60	1	1						N
(A=M2G227) (B=M2G227)											
10	2	172480-72430-1	TUBE ASSY, SWING	1	1						
11	3	172186-72910	BUSH, 30-35	1							
11-1	3	172186-72911	BUSH, 30-35	1	1						N
(A=M29709)											
12	2	172141-72580	U-NUT, M20	1	1						
13	2	172447-72860	HEAD ASSY, 60 30	1	1						
15	3	24550-030300	BUSH, 30X30	1	1						
16	2	172447-72910	ROD ASSY, SWING	1	1						
17	3	933125-05300	BUSH, PIN 30 34.5B	1	1						
18	2	172447-72951	PISTON, 60 20-28	1	1						
18-1	2	172447-72952	PISTON, 60X20X28	1	1						N
(A=M2G227) (B=M2G227)											
19	2	24761-020000	NIPPLE, GREASE PT1/8	1	1						
20	2	933125-59600	WASHER, LOCK 60 B	1	1						

Fig.30. BLADE CYLINDER



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172480-72300-1	CYLINDER ASSY, BLADE	1	1						
2	2	172157-72020	SEAL SET, HEAD 50B	1	1						
7	2	172480-72380-1	TUBE ASSY, BLADE	1	1						
8	3	172156-72410	BUSH, PIN 25 35 A	1	1						
9	2	172447-72321	GASKET ASSY, RGU50	1	1						
9-1	2	172A54-72320	PACKING, BRL50 ASSY	1	1						N
(A=M2G227) (B=M2G227)											
12	2	172480-72390	ROD ASSY, BLADE	1	1						
13	3	172156-72410	BUSH, PIN 25 35 A	1	1						
14	2	172447-72531	PISTON, 50 18X28	1	1						
14-1	2	172447-72532	PISTON,50X18X28	1	1						N
(A=M2G227) (B=M2G227)											
15	2	172157-72620	HEAD ASSY, 50 25 B	1	1						
17	3	24550-025250	BUSH, 25X25	1	1						
18	2	172157-72730	U-NUT, M18	1	1						
19	1	172480-72370-1	PROTECTOR	1							
19-1	1	172A64-72690	PROTECTOR	1	1						R
(A=M23645)											
20	1	26014-100202	BOLT, M10X 20	2							
20-1	1	26014-100252	BOLT, M10X 25	2	2						N
(A=M27179)											

Fig.31. VARIABLE LEG WIDEN / SHORTEN CYLINDER

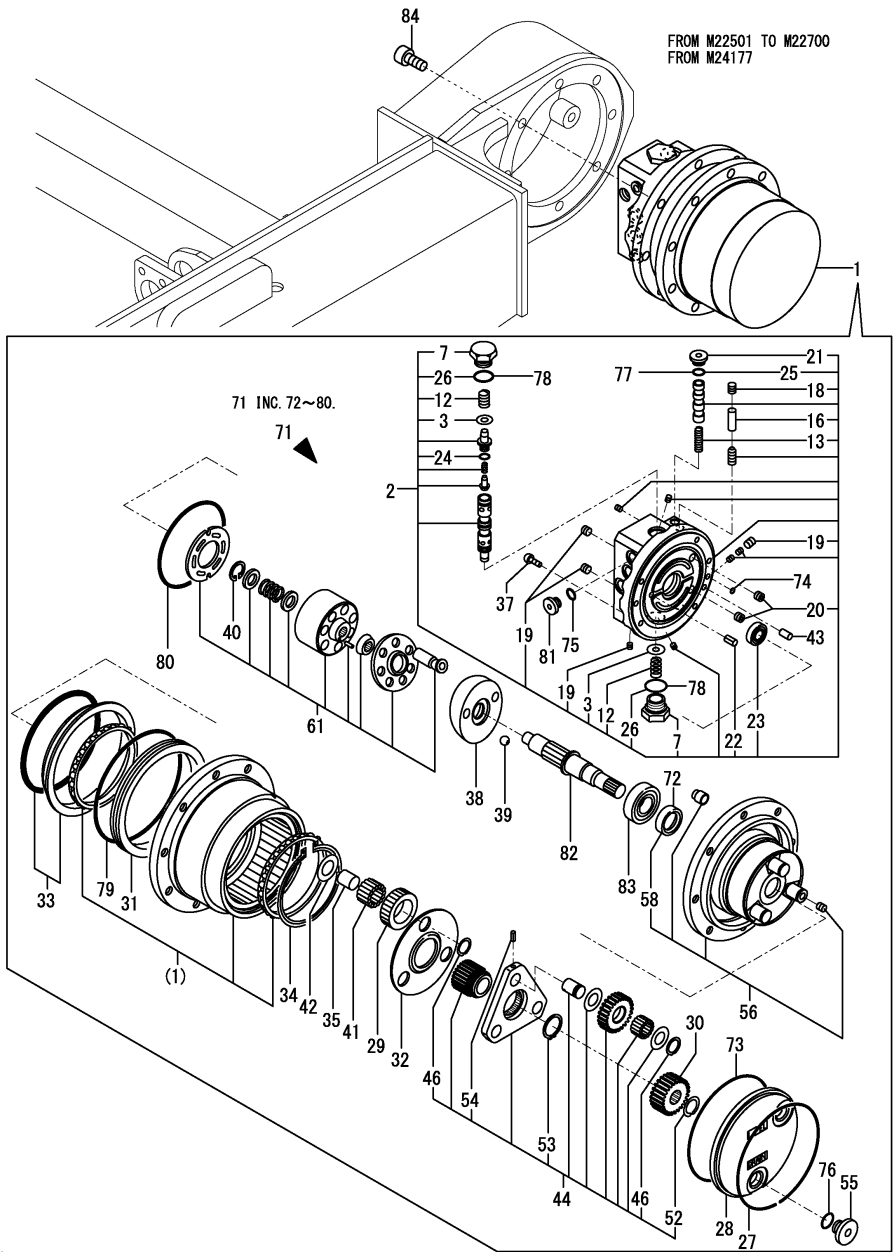


(A)=VIO10-2A(KR)
(B)=VIO10-2B(KR)
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172480-72500-1	CYLINDER ASSY	1	1						
2	2	172157-72020	SEAL SET, HEAD 50B	1	1						
7	2	172447-72321	GASKET ASSY, RGU50	1	1						
7-1	2	172A54-72320	PACKING, BRL50 ASSY	1	1						N
		(A=M2G227) (B=M2G227)									
10	2	172480-72510-1	TUBE ASSY, VARIABLE	1	1						
11	2	172447-72531	PISTON, 50 18X28	1	1						
11-1	2	172447-72532	PISTON,50X18X28	1	1						N
		(A=M2G227) (B=M2G227)									
12	2	172480-72530	ROD ASSY, VARIABLE	1	1						
13	2	172157-72620	HEAD ASSY, 50 25 B	1	1						
15	3	24550-025250	BUSH, 25X25	1	1						
16	2	172157-72730	U-NUT, M18	1	1						

Fig.32. TRAVEL MOTOR(F)



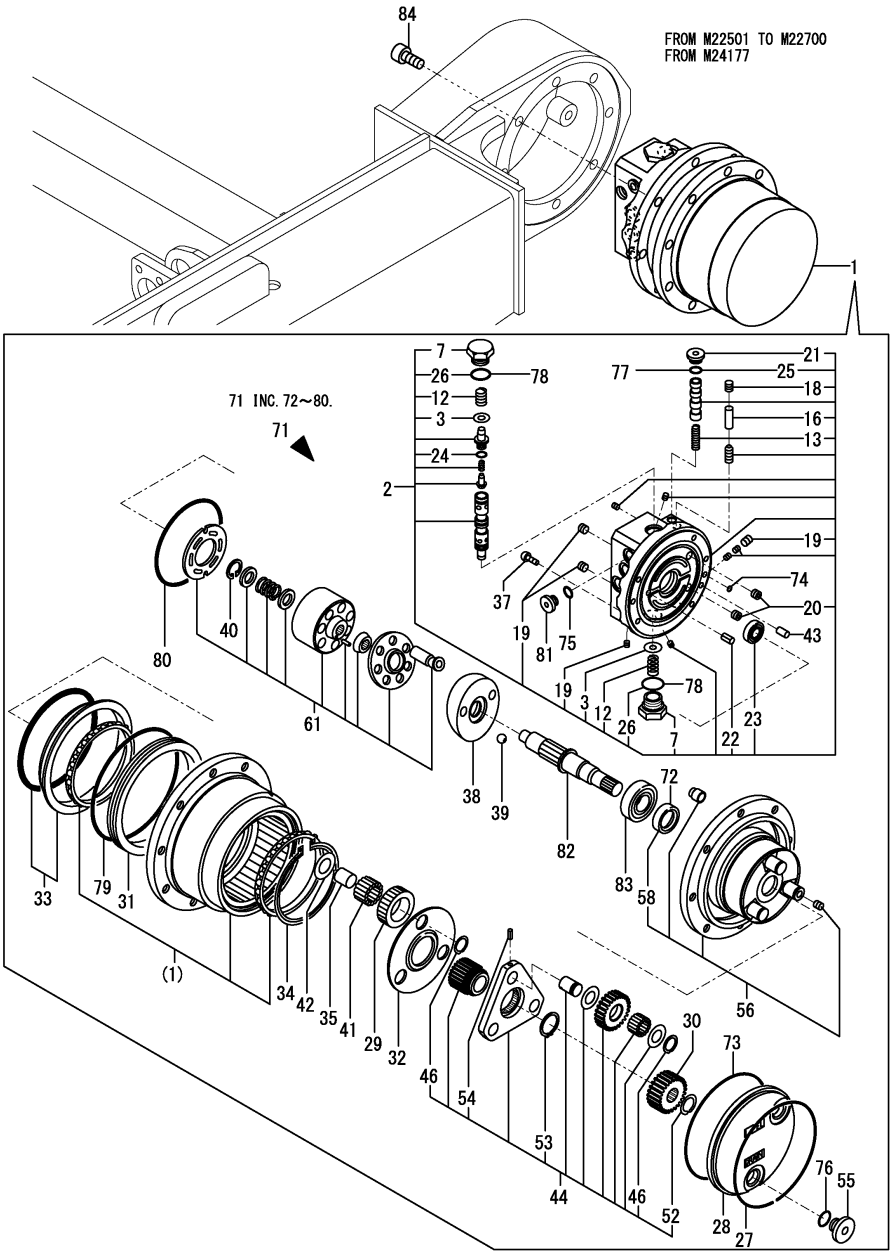
(A)=VIO10-2A(KR)
(B)=VIO10-2B(KR)
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172447-73300	MOTOR CMP,TRAVEL	2	2						
2	2	172447-53560	PLATE ASSY,BASE	2							
2-1	2	172447-73560	BODY 1 ASSY	2	2					N	
(A=M24248)											
3	3	172157-70450	RING	4	4						
7	3	172186-73160	PLUG	4	4						
12	3	172447-73440	SPRING	4	4						
13	3	172447-73450	SPRING	2	2						
16	3	172447-73480	NEEDLE	4	4						
18	3	172422-73550	PLUG	4	4						
19	3	172422-73550	PLUG	8	8						
20	3	172422-73650	PLUG	4	4						
21	3	172187-73670	PLUG	4	4						
22	3	22351-050012	PIN, SPRING 5.0X12	2	2						
23	3	24101-060020	BEARING, BALL 6002C3	2	2						
24	3	24311-000100	O-RING, 1AP10.0	4	4						
25	3	24315-000140	O-RING, 1BP14.0	4	4						
26	3	24315-000180	O-RING, 1BP18.0	4	4						
27	2	172157-70090	SNAP RING	2	2						
28	2	172447-73100	COVER	2	2						
29	2	172447-73120	GEAR	6	6						
30	2	172447-73140	GEAR	2	2						
31	2	172447-73150	RING,SEAL	2	2						
32	2	172447-73160	PLATE,THRUST	2	2						
33	2	172447-73170	SEAL ASSY	2	2						
34	2	172447-73180	RING,SNAP	2	2						
35	2	172447-73190	RING	6	6						
37	2	172186-73240	BOLT,HEX SOCKET	14	14						
38	2	172447-73250	PLATE	2	2						
39	2	172447-73280	BALL	4	4						
40	2	172126-73400	SNAP RING	2	2						
41	2	172186-73410	NEEDLE	90	90						
42	2	172447-73510	WASHER,THRUST	6	6						
43	2	172425-73540	PIN, PARALLEL	2	2						
44	2	172447-73550	CARRIER KIT	2	2						
46	3	172157-70240	SNAP RING	12	12						
52	3	172186-73450	RING,SNAP	2	2						
53	3	22242-000150	RING, 15	2	2						
54	3	22351-030012	PIN, SPRING 3.0X12	6	6						
55	2	172187-73570	PLUG	4	4						
56	2	172447-73570	PLATE KIT	2	2						
58	3	172186-73230	SEAL, OIL	2	2						
61	2	172447-73580	CYLINDER BARREL ASSY	2	2						
71	2	172447-73590	O-RING KIT	2	2						
72	3	172186-73230	SEAL, OIL	2	2						
73	3	172447-73500	O-RING	2	2						
74	3	24315-000060	O-RING, 1BP6.0	2	2						
75	3	24315-000110	O-RING, 1BP11.0	4	4						
76	3	24315-000140	O-RING, 1BP14.0	4	4						
77	3	24315-000140	O-RING, 1BP14.0	4	4						
78	3	24315-000180	O-RING, 1BP18.0	4	4						

Remarks
* Rerated to (K) travel motor parts are shown in Fig.37.

Fig.32. TRAVEL MOTOR(F)



OCS10-M56101 Fig.32

(A)=VIO10-2A(KR)
(B)=VIO10-2B(KR)
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
79	3	24321-001300	O-RING, 1AG130.0	2	2						
80	3	24325-001050	O-RING 1B G-105.0	2	2						
81	2	172187-73600	PLUG	4	4						
82	2	172186-73710	SHAFT	2	2						
83	2	24101-060044	BEARING, BALL 6004	2	2						
84	1	26450-100252	BOLT, M10X 25	16	16						

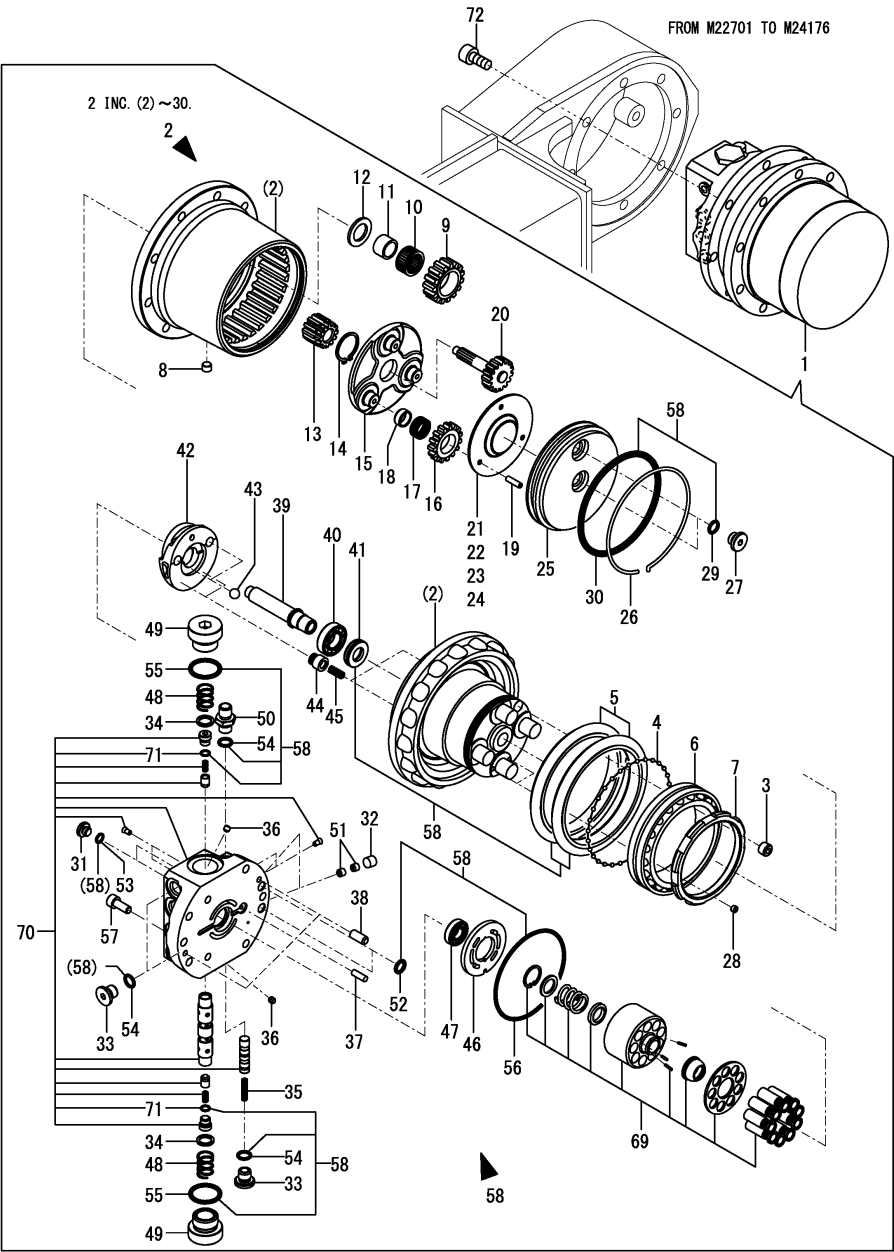
Remarks
* Rerated to (K) travel motor parts are shown in Fig.37.

Fig.33. TRAVEL MOTOR(K)

(A)=VIO10-2A(KR)
(B)=VIO10-2B(KR)
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A54-73300	MOTOR ASSY, TRAVELING	2							
2	2	172A54-73400	GEAR, REDUCTION	2							
3	3	172175-70110	PLUG	2							
4	3	172122-70350	BALL, STEEL	188							
5	3	172A54-73410	SEAL, FLOATING	2							
6	3	172A54-73420	BEARING	2							
7	3	172A54-73430	NUT, RING	2							
8	3	172122-73430	PLUG	2							
9	3	172A54-73440	GEAR, PLANETARY	8							
10	3	172A54-73450	NEEDLE BEARING	8							
11	3	172A54-73460	INNER RACE	8							
12	3	172A54-73470	WASHER, THRUST	8							
13	3	172A54-73480	GEAR, SUN	2							
14	3	172A54-73490	SPRING	2							
15	3	172A54-73500	HOLDER	2							
16	3	172A54-73510	GEAR, PLANETARY	6							
17	3	172A54-73520	GAUGE, W/ROLLER	6							
18	3	172A54-73530	INNER RACE	6							
19	3	172A54-73540	PIN, SPRING	6							
20	3	172A54-73550	GEAR, DRIVE	2							
21	3	172A54-73560	PLATE, THRUST	2							
22	3	172A54-73570	PLATE, THRUST	2							
23	3	172A54-73580	PLATE, THRUST	2							
24	3	172A54-73590	PLATE, THRUST	2							
25	3	172A54-73600	COVER	2							
26	3	172A54-73610	WIRE	2							
27	3	172A54-73620	PLUG	4							
28	3	172A54-73630	PLUG	4							
29	3	24315-000110	O-RING, 1BP11.0	4							
30	3	24315-001100	O-RING, 1BP110.0	2							
31	2	1A6240-37360	PLUG	4							
32	2	172147-70220	PLUG	4							
33	2	172148-70301	PLUG	6							
34	2	172141-70450	SEAT, SPRING	4							
35	2	172421-73400	SPRING	2							
36	2	172173-73440	ORIFICE	4							
37	2	172122-73470	PIN	2							
38	2	172122-73480	PIN	4							
39	2	172A54-73640	SHAFT	2							
40	2	172A54-73650	BALL BEARING	2							
41	2	172A54-73660	SEAL, OIL	2							
42	2	172A54-73670	PLATE	2							
43	2	172A54-73680	STEEL BALL	4							
44	2	172A54-73690	PISTON ASSY	4							
45	2	172A54-73700	SPRING	2							
46	2	172A54-73710	PLATE, VALVE	2							
47	2	172A54-73720	BALL BEARING	2							
48	2	172A54-73730	SPRING	4							
49	2	172A54-73740	CAP	4							
50	2	172A54-73750	PLUG	2							
51	2	172312-74790	ORIFICE	8							



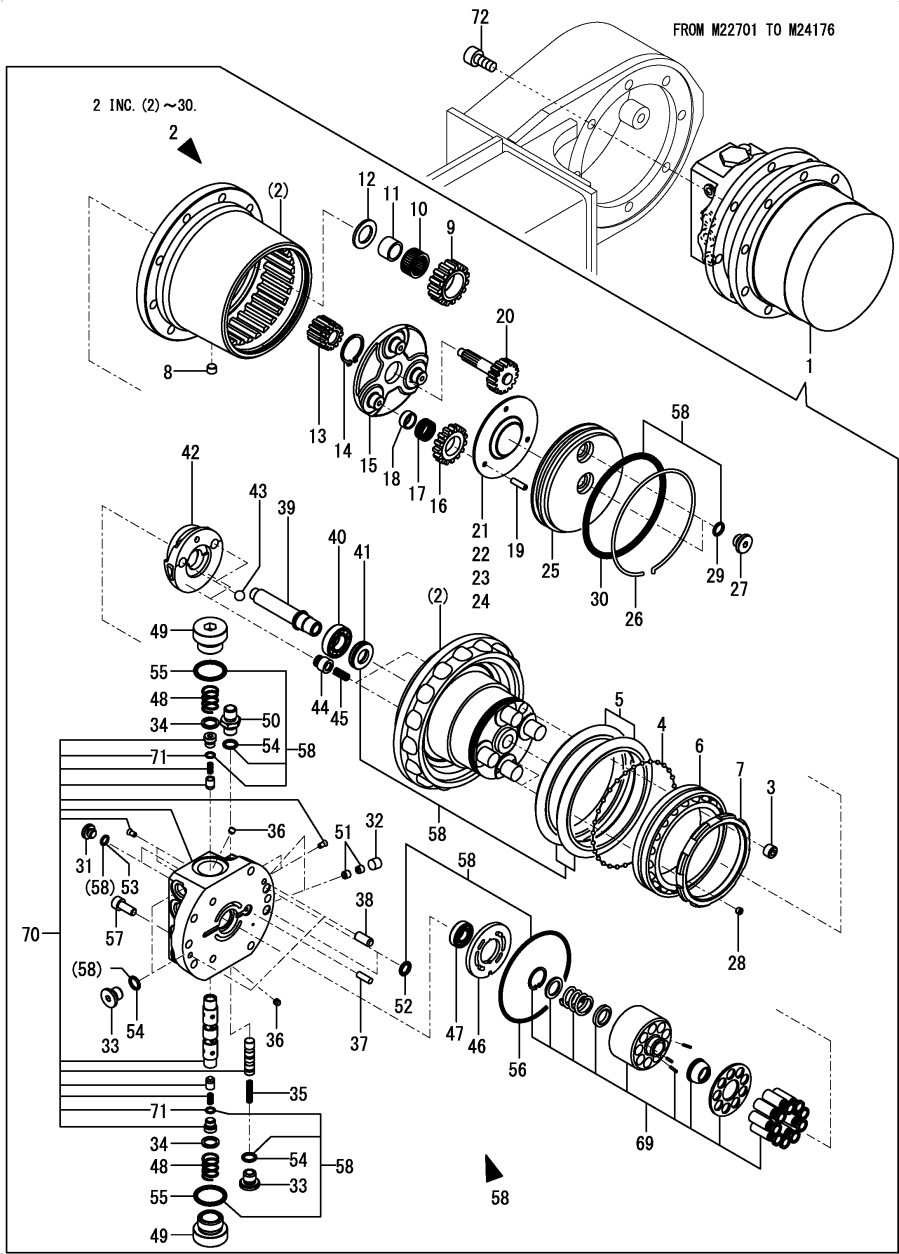
Remarks
* Rerated to (F) travel motor parts are shown in Fig.36.

Fig.33. TRAVEL MOTOR(K)

(A)=VIO10-2A(KR)
(B)=VIO10-2B(KR)
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
52	2	24315-000070	O-RING, 1BP7.0	6							
53	2	24315-000080	O-RING, 1BP8.0	4							
54	2	24315-000110	O-RING, 1BP11.0	8							
55	2	24315-000240	O-RING, 1BP24.0	4							
55-1	2	41851-000240	O-RING	4							N
(A=M24102)											
56	2	24321-001000	O-RING, 1AG100.0	2							
57	2	26450-080202	BOLT, M8X 20	12							
58	2	172A54-73350	SEAL SET, MOTOR	2							
69	2	172A54-73360	CYLINDER BLOCK KIT	2							
70	2	172A54-73370	PLATE KIT, BASE	2							
71	3	172141-70440	O-RING	4							
72	1	26450-100252	BOLT, M10X 25	16							

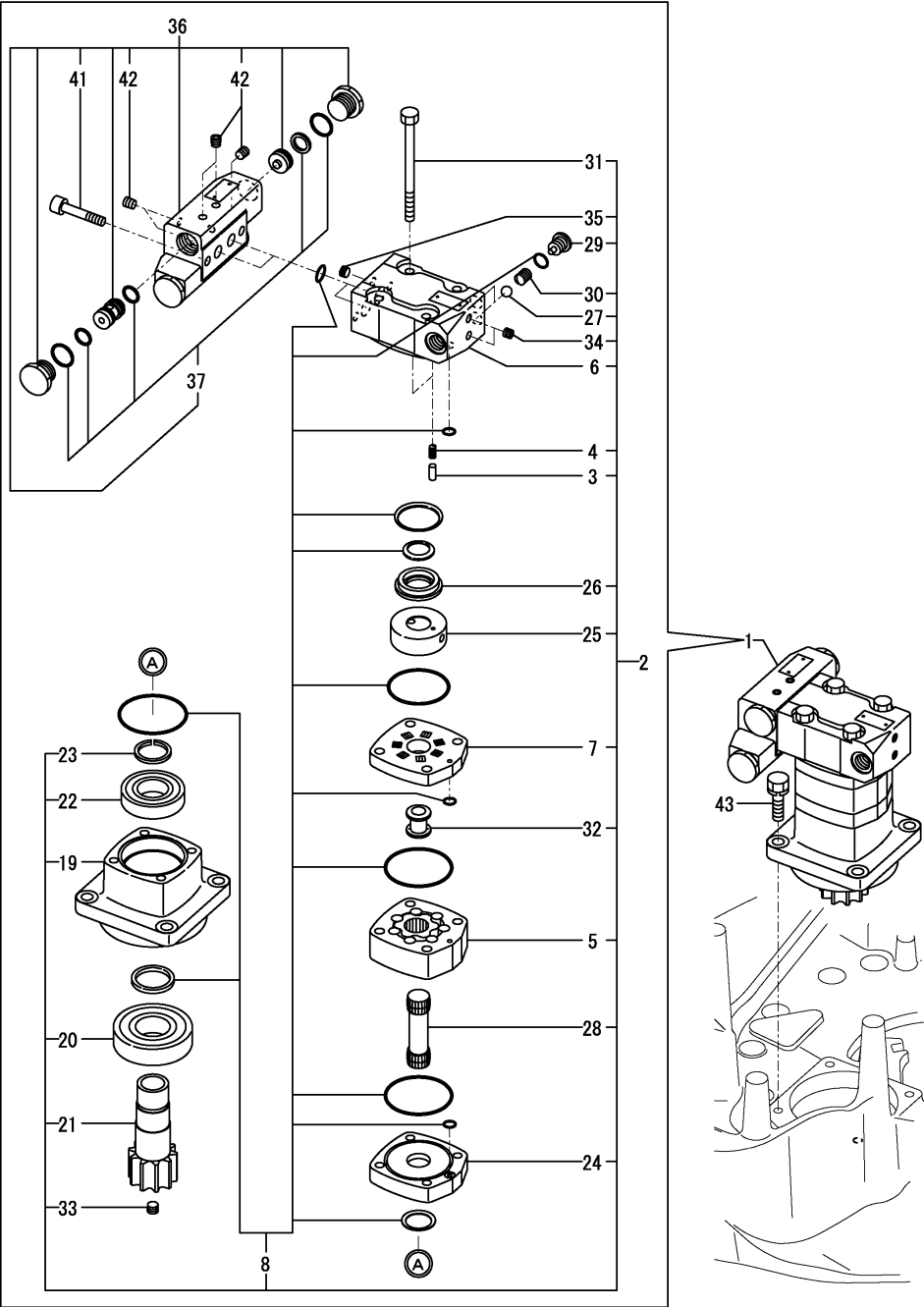


Remarks
* Rerated to (F) travel motor parts are shown in Fig.36.

Fig.34. TURNING MOTOR

(A)=VIO10-2A(KR)
(B)=VIO10-2B(KR)
(C)=

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

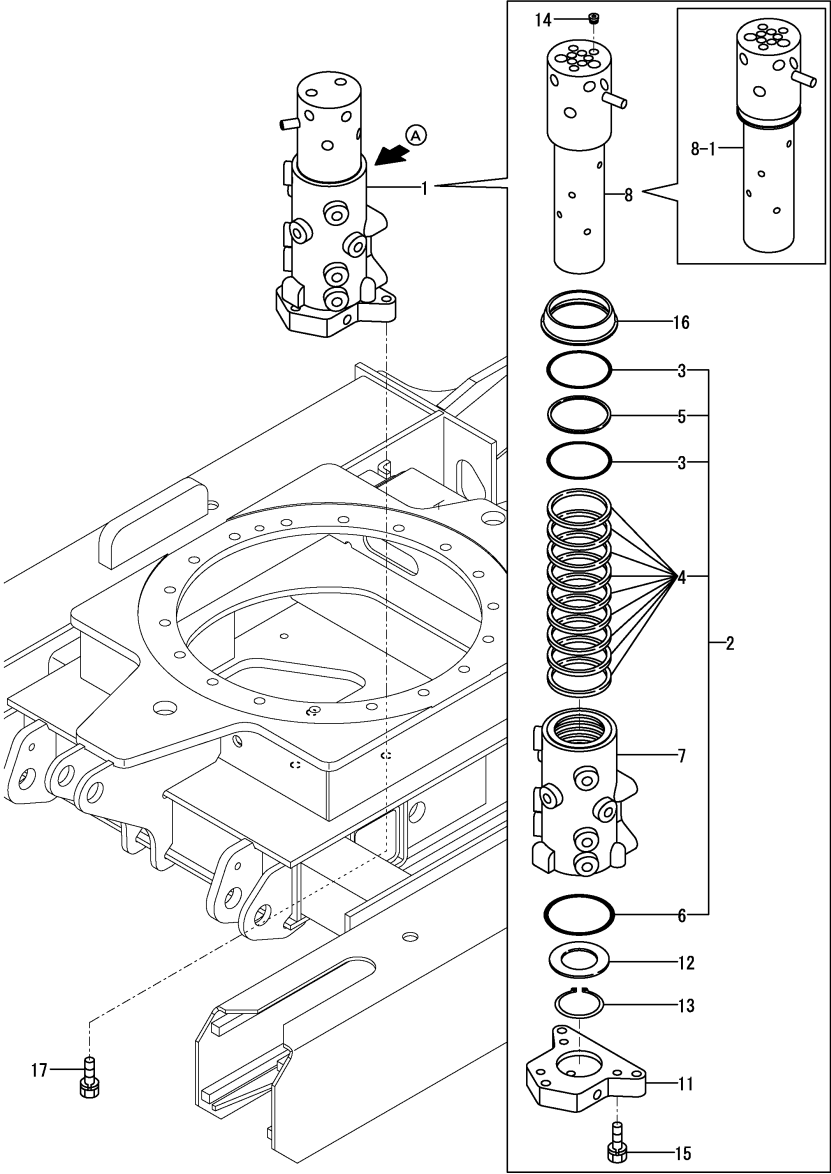


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172480-73310	MOTOR ASSY, SWING	1	1						
2	2	172480-73320	MOTOR ASSY, SWING	1	1						
3	3	172137-70570	PIN	2	2						
4	3	172137-70580	SPRING	2	2						
5	3	172480-73330	GEROLLER	1	1						
6	3	172480-73340	HOUSING, VALVE	1	1						
7	3	172148-73350	PLATE, VALVE	1	1						
8	3	172480-73350	SEAL SET	1	1						
19	3	172171-73410	HOUSING	1	1						
20	3	172171-73430	BALL BEARING	1	1						
21	3	172183-73430	GEAR, PINION	1	1						
22	3	172171-73440	BALL BEARING	1	1						
23	3	172171-73460	RETAINING RING	1	1						
24	3	172186-73550	PLATE, WEAR	1	1						
25	3	172186-73560	VALVE	1							
25-1	3	172173-73590	VALVE	1	1						R
(A=M22501)											
26	3	172186-73570	BALANCING PLATE	1							
26-1	3	172173-73600	RING,BALANCING	1	1						R
(A=M22501)											
27	3	172168-73580	BALL	2	2						
28	3	172186-73580	DRIVE	1	1						
29	3	172168-73590	PLUG	2	2						
30	3	172168-73600	SPRING	2	2						
31	3	172186-73610	BOLT, 6X22	4	4						
32	3	172141-77260	DRIVE, VALVE	1	1						
33	3	23871-010000	PLUG, R01	1	1						
34	3	23871-010000	PLUG, R01	2	2						
35	3	23871-020000	PLUG, R02	2	2						
36	2	172480-73410	VALVE COMPL.	1	1						
37	3	172456-77110	SEAL SET, VALVE	1	1						
41	3	172456-77130	BOLT 6*65	2	2						
42	3	23871-010000	PLUG, R01	6	6						
43	1	26013-120402	BOLT, M12X 40	4	4						

Fig.35. SWIVEL JOINT(Y SPEC.)(TO M28357)

(A)=VIO10-2A(KR)
(B)=VIO10-2B(KR)
(C)=

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



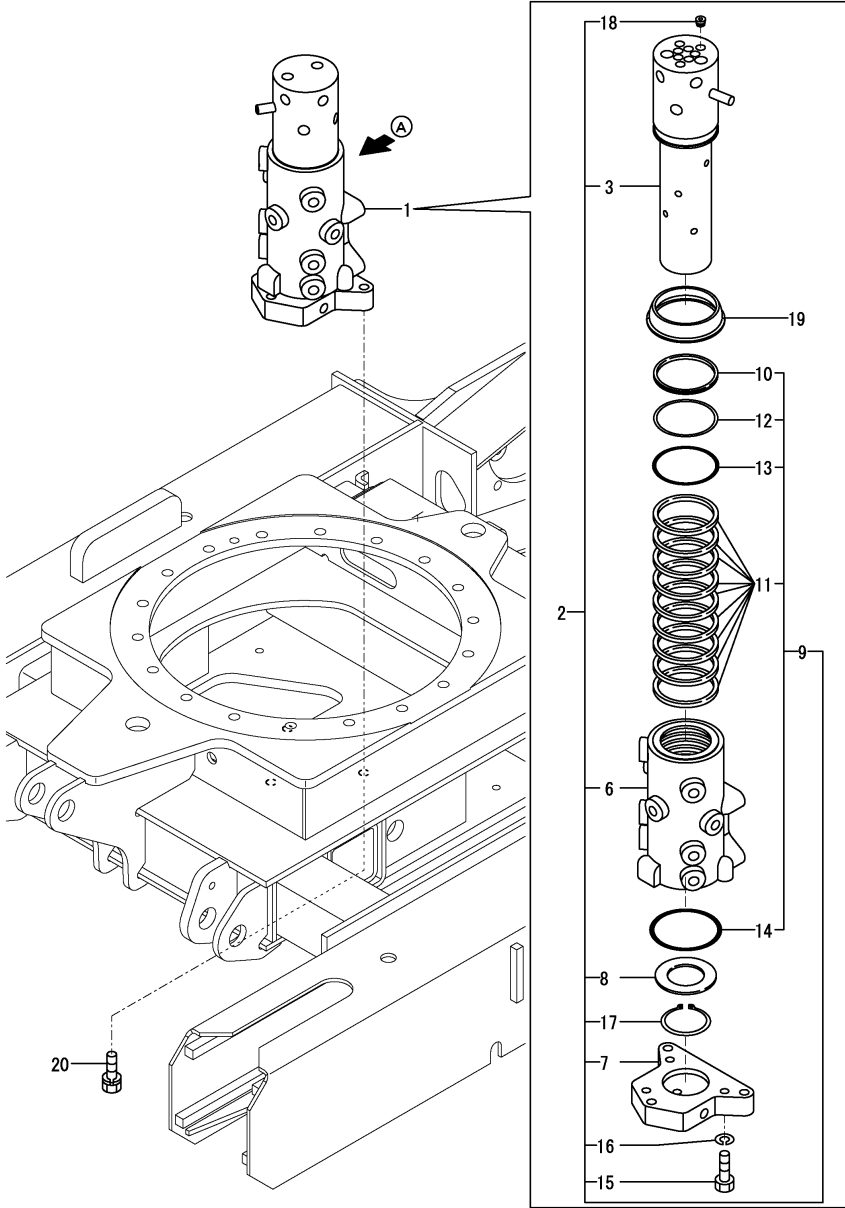
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172448-73850	SWIVEL ASSY	1							
1-1	1	172448-73840	SWIVEL ASSY	1						N	
(A=M/#22896)											
1-2	1	172448-73840	SWIVEL ASSY	1						Z	1
(A=M28358)											
2	3	172446-73900	SEAL SET, SWIVEL	1							
3	4	172142-73800	O-RING, 55.76X5.7	2							
4	4	172458-73820	SEAL, SWIVEL	9							
4-1	4	172447-73840	SEAL	9						R	
(A=M/#23108)											
5	4	172148-73870	RING, BUCK UP	1							
6	4	24321-000700	O-RING, 1AG70.0	1							
7	3	172448-73860	HUB, SWIVEL	1							
8	3	172446-73871	SHAFT, SWIVEL	1							
8-1	3	172446-73872	SHAFT, SWIVEL	1						F	2
(A=M/#22896)											
11	3	172446-73890	FLANGE, SWIVEL	1							
12	3	172157-73910	SPACER, SWIVEL	1							
13	3	22242-000401	RING, 40	1							
14	3	23871-010000	PLUG, R01	8							
15	3	26013-080352	BOLT, M8X 35	3							
16	2	172448-73900	COVER, DUCT	1						W	
(A=M/#22896)											
17	1	26013-100302	BOLT, M10X 30	3							

Remarks
(1)A : no label.
Compatible by assembly exchange with parts of Fig.82(35A) No.1.
The inner parts are not compatible.
(2)Interchangeable by simultaneous replacement with No.16.

Fig.62. (35A)SWIVEL JOINT(N SPEC.)(FROM M28358)

(A)=VIO10-2A(KR)
(B)=VIO10-2B(KR)
(C)=

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



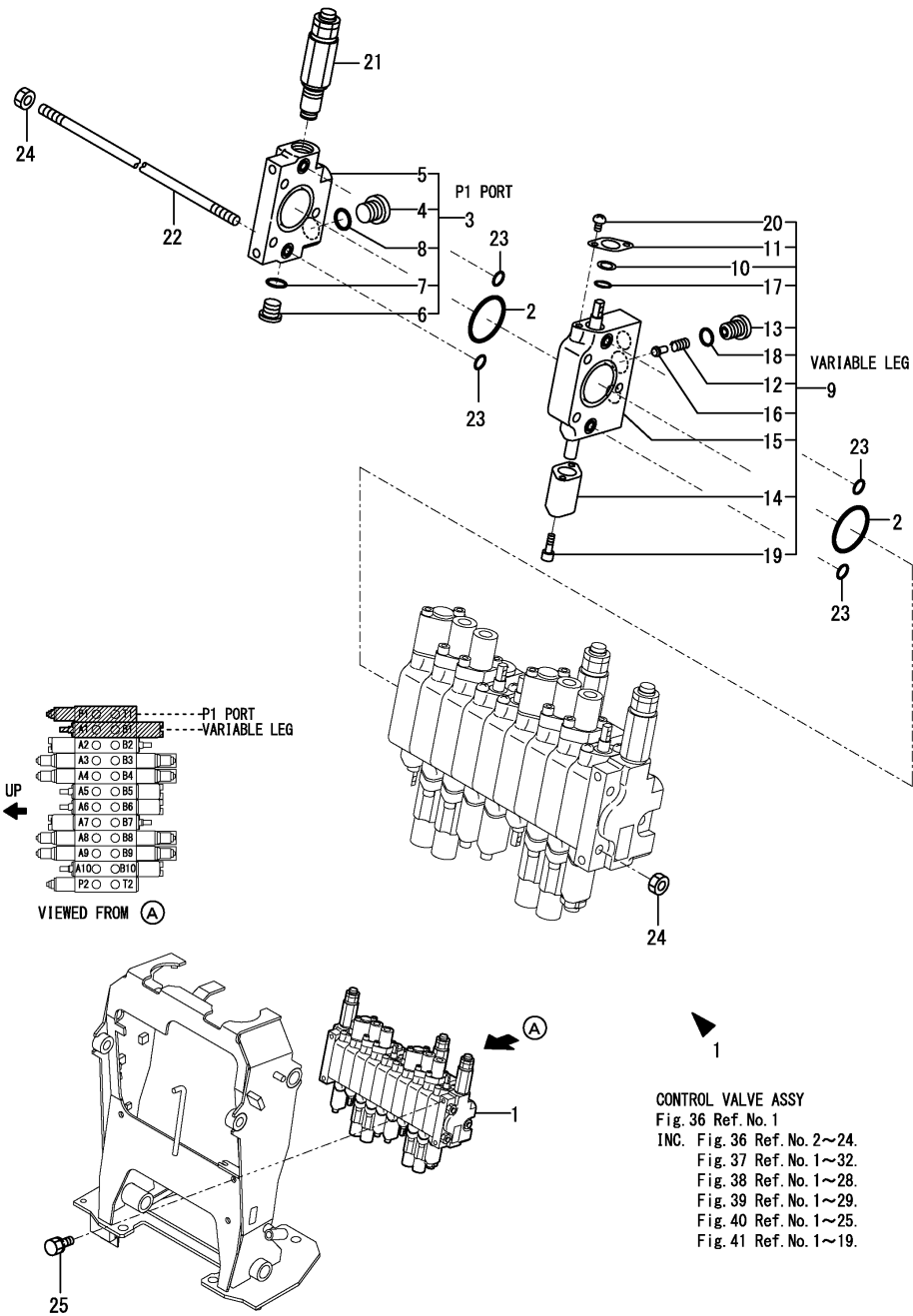
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A64-73790	JOINT ASSY,SWIVEL S	1	1					W	1
(A=M28358)											
2	2	172A64-73800	JOINT ASSY,SWIVEL S	1	1						
3	3	172A64-73810	SHAFT ASSY,SWIVEL SL	1	1						
6	3	172A64-73840	HUB,SWIVEL S	1	1						
7	3	172A64-73850	FLANGE,SWIVEL SL	1	1						
8	3	172B02-73860	SPACER, SWIVEL	1	1						
9	3	172A64-73880	SEAL KIT,SL	1							
9-1	3	172A64-73860	SEAL KIT, SWIVEL	1	1					N	
(A=M28950)											
10	4	172A64-73870	RING,V	1	1						
11	4	172B02-73870	SEAL, SWIVEL	9							
11-1	4	172B02-73890	SEAL, SWIVEL	9	9					N	
(A=M28950)											
12	4	172B02-73880	RING, BACKUP T3 55	1	1						
13	4	24315-000560	O-RING, 1BP56.0	1	1						
14	4	24325-000700	O-RING, 1BG70.0	1	1						
15	3	172A64-73890	BOLT,10.9 8X 40	3	3						
16	3	22217-080000	WASHER, SPRING 8	3	3						
17	3	22242-000451	RING, 45	1	1						
18	3	23871-010000	PLUG, R01	8	8						
19	2	172448-73900	COVER, DUCT	1	1						
20	1	26013-100302	BOLT, M10X 30	3	3						

Remarks
(1)A:"NACHI"LABEL
Compatible by assembly exchange from parts of Fig.35 No.1-2.
The inner parts are not compatible.

(A)=VIO10-2A(KR)
(B)=VIO10-2B(KR)
(C)=

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

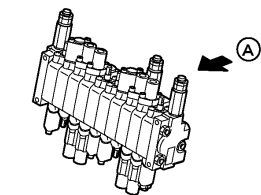
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172480-74300	VALVE ASSY, CONTROL	1	1						
2	2	172157-70710	O-RING	2	2						
3	2	172446-74120	SECTION ASSY	1	1						
4	3	172157-70720	PLUG PF3/8	1	1						
5	3	172447-74250	SECTION	1	1						
6	3	172183-74350	PLUG	1	1						
7	3	24315-000110	O-RING, 1BP11.0	1	1						
8	3	24315-000140	O-RING, 1BP14.0	1	1						
9	2	172480-74120	SECTION ASSY, OPTION	1	1						
10	3	172157-70630	BAC UP RING	1	1						
11	3	172157-70640	PLATE, O-RING	1	1						
12	3	172157-70690	SPRING, VALVE	1	1						
13	3	172157-70700	STAY, VALVE	1	1						
14	3	172157-70820	CAP, SPRING	1	1						
15	3	172448-74350	SPOOL ASSY, OPTION	1	1						
16	3	172137-74520	VALVE, CHECK	1	1						
17	3	24311-240100	O-RING, 1AP10A	1	1						
18	3	24315-000110	O-RING, 1BP11.0	1							
18-1	3	41851-000110	O-RING	1	1						N
(A=M24102)											
19	3	26450-050452	BOLT, M5X 45	2	2						
20	3	26557-050102	SCREW, M5X10	2	2						
21	2	172480-74250	MAIN RELIEF VALVE	1	1						
22	2	172446-74560	BOLT	3	3						
23	2	24315-000100	O-RING, 1BP10.0	4	4						
24	2	26716-080002	NUT, M8	6	6						
25	1	26013-080162	BOLT, M8X 16	3	3						



CONTROL VALVE ASSY
Fig. 36 Ref. No. 1
INC. Fig. 36 Ref. No. 2~24.
Fig. 37 Ref. No. 1~32.
Fig. 38 Ref. No. 1~28.
Fig. 39 Ref. No. 1~29.
Fig. 40 Ref. No. 1~25.
Fig. 41 Ref. No. 1~19.

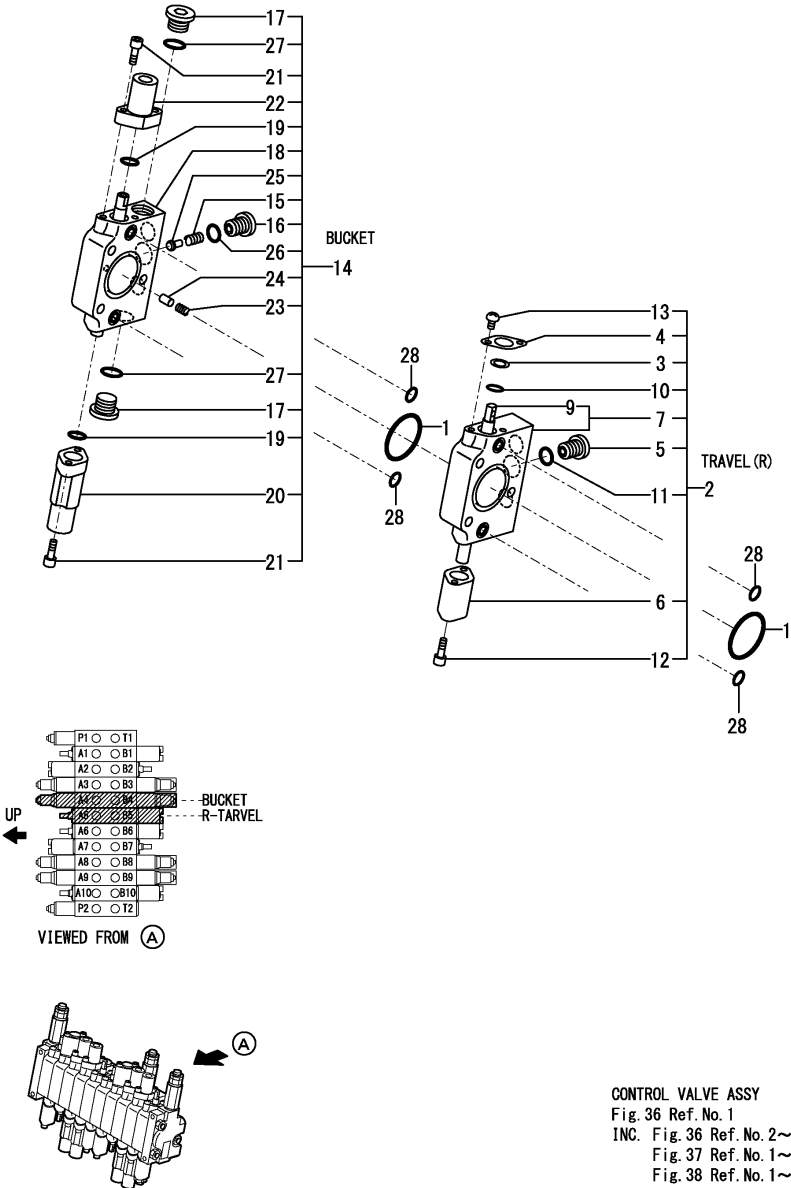
(A)=VIO10-2A(KR)
(B)=VIO10-2B(KR)
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172157-70710	O-RING	2	2						
2	2	172446-74130	SECTION ASSY, SWING	1	1						
3	3	172157-70630	BAC UP RING	1	1						
4	3	172157-70640	PLATE, O-RING	1	1						
5	3	172157-70690	SPRING, VALVE	1	1						
6	3	172157-70700	STAY, VALVE	1	1						
7	3	172157-70720	PLUG PF3/8	1	1						
8	3	172157-70820	CAP, SPRING	1	1						
9	3	172446-74410	SECTION, SWING	1	1						
11	4	172446-74260	SPOOL ASSY, SWING	1	1						
12	3	172137-74520	VALVE, CHECK	1	1						
13	3	24311-240100	O-RING, 1AP10A	1	1						
14	3	24315-000110	O-RING, 1BP11.0	1	1						
15	3	24315-000140	O-RING, 1BP14.0	1	1						
16	3	26450-050452	BOLT, M5X 45	2	2						
17	3	26557-050102	SCREW, M5X10	2	2						
18	2	172480-74140	SECTION ASSY, BOOM	1	1						
19	3	172157-70690	SPRING, VALVE	1	1						
20	3	172157-70700	STAY, VALVE	1	1						
21	3	172157-70720	PLUG PF3/8	1	1						
22	3	172480-74150	SPOOL ASSY, BOOM	1	1						
23	3	172449-74220	O-RING, AS 1A016	2	2						
24	3	172449-74270	CAP	1	1						
25	3	172449-74280	BOLT, M5 X 20	4	4						
26	3	172449-74290	CAP	1	1						
27	3	172137-74520	VALVE, CHECK	1	1						
28	3	24315-000110	O-RING, 1BP11.0	1							
28-1	3	41851-000110	O-RING	1	1						N
	(A=M24102)										
29	3	24315-000140	O-RING, 1BP14.0	1							
29-1	3	41851-000140	O-RING	1	1						N
	(A=M24102)										
30	2	172447-74221	VALVE ASSY, RELIEF	1	1						
31	2	172447-74230	ANTI-CAVITATION	1	1						
32	2	24315-000100	O-RING, 1BP10.0	4	4						

Fig.38. CONTROL VALVE(3/6)



CONTROL VALVE ASSY
Fig. 36 Ref. No. 1
INC. Fig. 36 Ref. No. 2~24.
Fig. 37 Ref. No. 1~32.
Fig. 38 Ref. No. 1~28.
Fig. 39 Ref. No. 1~29.
Fig. 40 Ref. No. 1~25.
Fig. 41 Ref. No. 1~19.

(A)=VIO10-2A(KR)
(B)=VIO10-2B(KR)
(C)=

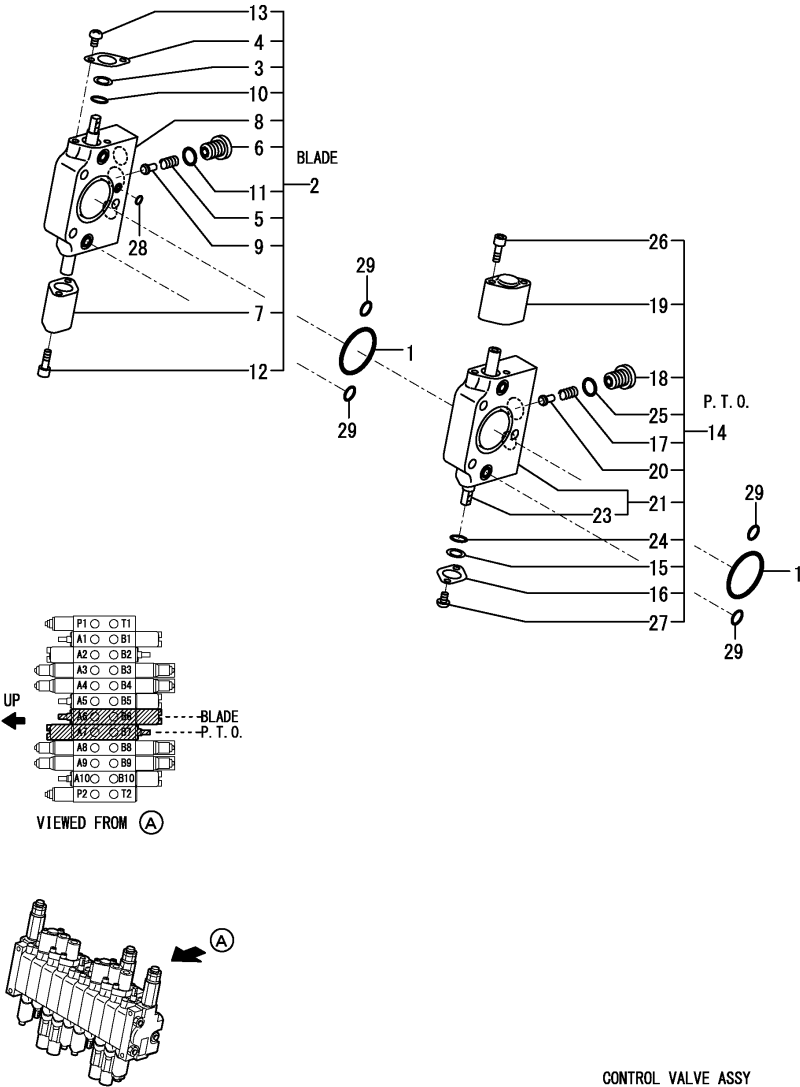
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172157-70710	O-RING	2	2						
2	2	172446-74160	SECTION ASSY, TRAVEL	1	1						
3	3	172157-70630	BAC UP RING	1	1						
4	3	172157-70640	PLATE, O-RING	1	1						
5	3	172157-70700	STAY, VALVE	1	1						
6	3	172157-70820	CAP, SPRING	1	1						
7	3	172446-74440	SECTION ASSY, TRAVEL	1	1						
9	4	172446-74320	SPOOL ASSY, TRAVEL	1	1						
10	3	24311-240100	O-RING, 1AP10A	1	1						
11	3	24315-000110	O-RING, 1BP11.0	1	1						
12	3	26450-050452	BOLT, M5X 45	2	2						
13	3	26557-050102	SCREW, M5X10	2	2						
14	2	172480-74160	SECTION ASSY, BUCKET	1	1						
15	3	172157-70690	SPRING, VALVE	1	1						
16	3	172157-70700	STAY, VALVE	1	1						
17	3	172157-70720	PLUG PF3/8	2	2						
18	3	172480-74170	SPOOL ASSY, BUCKET	1	1						
19	3	172449-74220	O-RING, AS 1A016	2	2						
20	3	172449-74270	CAP	1	1						
21	3	172449-74280	BOLT, M5 X 20	4	4						
22	3	172449-74290	CAP	1	1						
23	3	172447-74300	SPRING, VALVE	1	1						
24	3	172447-74310	VALVE, CHECK	1	1						
25	3	172137-74520	VALVE, CHECK	1	1						
26	3	24315-000110	O-RING, 1BP11.0	1							
26-1	3	41851-000110	O-RING	1	1						N
(A=M24102)											
27	3	24315-000140	O-RING, 1BP14.0	2							
27-1	3	41851-000140	O-RING	2	2						N
(A=M24102)											
28	2	24315-000100	O-RING, 1BP10.0	4	4						

Fig.39. CONTROL VALVE(4/6)

(A)=VIO10-2A(KR)
(B)=VIO10-2B(KR)
(C)=

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



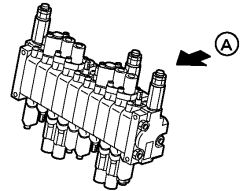
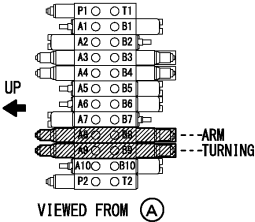
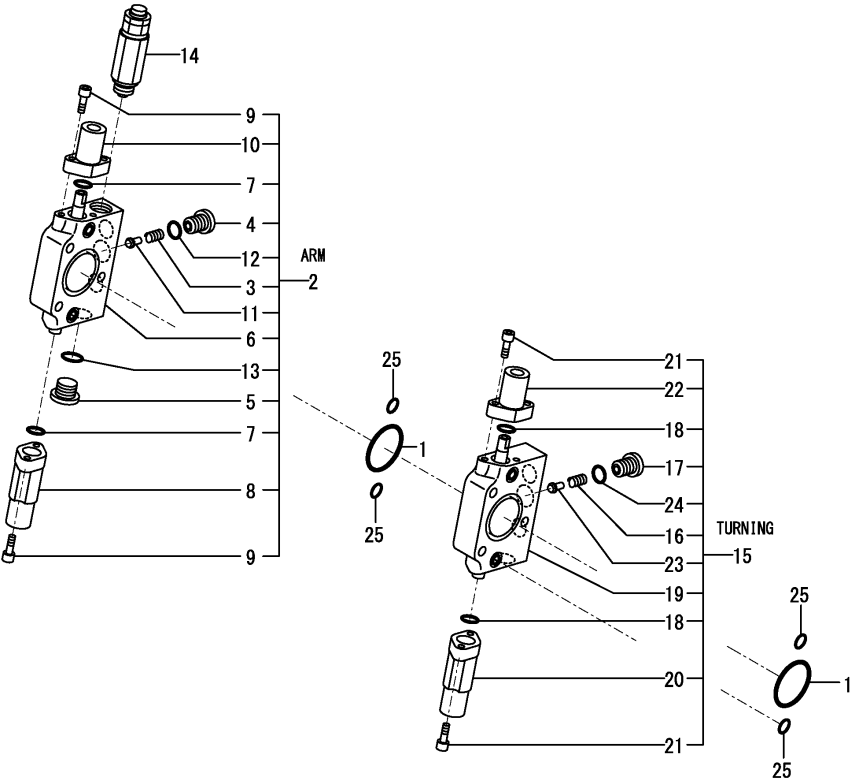
CONTROL VALVE ASSY
Fig. 36 Ref.No.1
INC. Fig. 36 Ref. No. 2~24.
Fig. 37 Ref. No. 1~32.
Fig. 38 Ref. No. 1~28.
Fig. 39 Ref. No. 1~29.
Fig. 40 Ref. No. 1~25.
Fig. 41 Ref. No. 1~19.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172157-70710	O-RING	2	2						
2	2	172480-74180	SECTION ASSY, BLADE	1	1						
3	3	172157-70630	BAC UP RING	1	1						
4	3	172157-70640	PLATE, O-RING	1	1						
5	3	172157-70690	SPRING, VALVE	1	1						
6	3	172157-70700	STAY, VALVE	1	1						
7	3	172157-70820	CAP, SPRING	1	1						
8	3	172480-74190	SPOOL ASSY, BLADE	1	1						
9	3	172137-74520	VALVE, CHECK	1	1						
10	3	24311-240100	O-RING, 1AP10A	1	1						
11	3	24315-000110	O-RING, 1BP11.0	1							
11-1	3	41851-000110	O-RING	1	1						N
(A=M24102)											
12	3	26450-050452	BOLT, M5X 45	2	2						
13	3	26557-050102	SCREW, M5X10	2	2						
14	2	172446-74600	SECTION ASSY, PTO	1	1						
15	3	172157-70630	BAC UP RING	1	1						
16	3	172157-70640	PLATE, O-RING	1	1						
17	3	172157-70690	SPRING, VALVE	1	1						
18	3	172157-70700	STAY, VALVE	1	1						
19	3	172157-70820	CAP, SPRING	1	1						
20	3	172137-74520	VALVE, CHECK	1	1						
21	3	172446-74630	SECTION ASSY, PTO	1	1						
23	4	172446-74620	SPOOL ASSY,PTO	1	1						
24	3	24311-240100	O-RING, 1AP10A	1	1						
25	3	24315-000110	O-RING, 1BP11.0	1	1						
26	3	26450-050452	BOLT, M5X 45	2	2						
27	3	26557-050102	SCREW, M5X10	2	2						
28	2	24315-000040	O-RING, 1BP4.0	1	1						
29	2	24315-000100	O-RING, 1BP10.0	4	4						

Fig.40. CONTROL VALVE(5/6)

(A)=VIO10-2A(KR)
(B)=VIO10-2B(KR)
(C)=

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



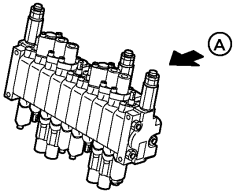
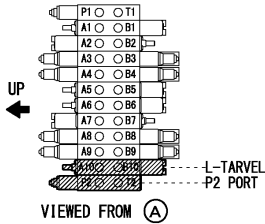
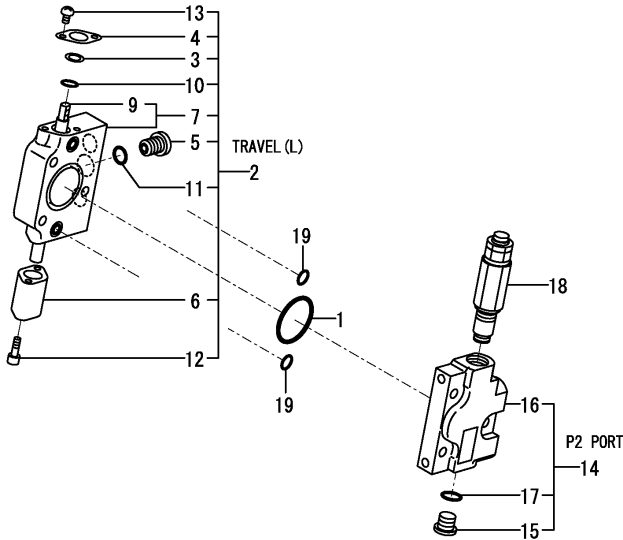
CONTROL VALVE ASSY
Fig. 36 Ref. No. 1
INC. Fig. 36 Ref. No. 2~24.
Fig. 37 Ref. No. 1~32.
Fig. 38 Ref. No. 1~28.
Fig. 39 Ref. No. 1~29.
Fig. 40 Ref. No. 1~25.
Fig. 41 Ref. No. 1~19.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172157-70710	O-RING	2	2						
2	2	172480-74200	SECTION ASSY, ARM	1	1						
3	3	172157-70690	SPRING, VALVE	1	1						
4	3	172157-70700	STAY, VALVE	1	1						
5	3	172157-70720	PLUG PF3/8	1	1						
6	3	172480-74210	SPOOL ASSY, ARM	1	1						
7	3	172449-74220	O-RING, AS 1A016	2	2						
8	3	172449-74270	CAP	1	1						
9	3	172449-74280	BOLT, M5 X 20	4	4						
10	3	172449-74290	CAP	1	1						
11	3	172137-74520	VALVE, CHECK	1	1						
12	3	24315-000110	O-RING, 1BP11.0	1							
12-1	3	41851-000110	O-RING	1	1						N
(A=M24102)											
13	3	24315-000140	O-RING, 1BP14.0	1							
13-1	3	41851-000140	O-RING	1	1						N
(A=M24102)											
14	2	172447-74221	VALVE ASSY, RELIEF	1	1						
15	2	172480-74220	SECTION ASSY	1	1						
16	3	172157-70690	SPRING, VALVE	1	1						
17	3	172157-70700	STAY, VALVE	1	1						
18	3	172449-74220	O-RING, AS 1A016	2	2						
19	3	172480-74230	SPOOL ASSY, SWING	1	1						
20	3	172449-74270	CAP	1	1						
21	3	172449-74280	BOLT, M5 X 20	4	4						
22	3	172449-74290	CAP	1	1						
23	3	172137-74520	VALVE, CHECK	1	1						
24	3	24315-000110	O-RING, 1BP11.0	1	1						
24-1	3	41851-000110	O-RING	1							N
(A=M24102)											
25	2	24315-000100	O-RING, 1BP10.0	4	4						

Fig.41. CONTROL VALVE(6/6)

(A)=VIO10-2A(KR)
(B)=VIO10-2B(KR)
(C)=

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

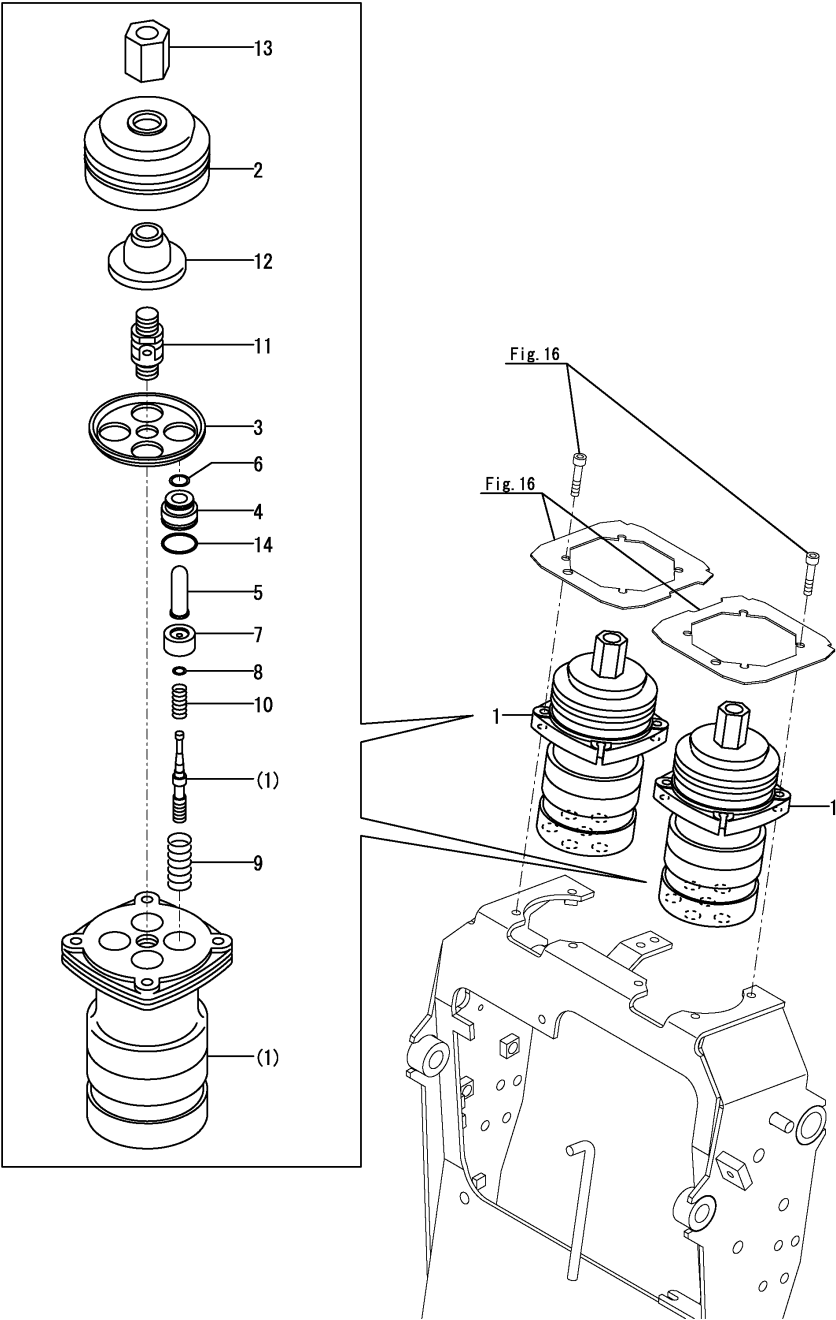


CONTROL VALVE ASSY
Fig. 36 Ref. No. 1
INC. Fig. 36 Ref. No. 2~24.
Fig. 37 Ref. No. 1~32.
Fig. 38 Ref. No. 1~28.
Fig. 39 Ref. No. 1~29.
Fig. 40 Ref. No. 1~25.
Fig. 41 Ref. No. 1~19.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172157-70710	O-RING	1	1						
2	2	172446-74160	SECTION ASSY, TRAVEL	1	1						
3	3	172157-70630	BAC UP RING	1	1						
4	3	172157-70640	PLATE, O-RING	1	1						
5	3	172157-70700	STAY, VALVE	1	1						
6	3	172157-70820	CAP, SPRING	1	1						
7	3	172446-74440	SECTION ASSY, TRAVEL	1	1						
9	4	172446-74320	SPOOL ASSY, TRAVEL	1	1						
10	3	24311-240100	O-RING, 1AP10A	1	1						
11	3	24315-000110	O-RING, 1BP11.0	1	1						
12	3	26450-050452	BOLT, M5X 45	2	2						
13	3	26557-050102	SCREW, M5X10	2	2						
14	2	172447-74200	SECTION ASSY	1	1						
15	3	172183-74350	PLUG	1	1						
16	3	172447-74380	SECTION	1	1						
17	3	24315-000110	O-RING, 1BP11.0	1	1						
18	2	172480-74250	MAIN RELIEF VALVE	1	1						
19	2	24315-000100	O-RING, 1BP10.0	2	2						

(A)=VIO10-2A(KR)
(B)=VIO10-2B(KR)
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172448-74701	VALVE ASSY, CONTROL	2	2						
2	2	172455-74710	BELLOWS	2	2						
3	2	172448-74760	PLATE	2	2						
4	2	172448-74770	PLUG	8	8						
5	2	172448-74780	ROD Q,PUSH	8	8						
6	2	172448-74790	SEAL	8	8						
7	2	172448-74910	SEAT, SPRING	8	8						
8	2	172448-74920	WASHER	8	8						
9	2	172448-74930	SPRING	8	8						
10	2	172448-74940	SPRING	8	8						
11	2	172448-74950	JOINT	2	2						
12	2	172448-74960	PLATE, CIRCLE	2	2						
13	2	172448-74970	NUT, ADJUST	2	2						
14	2	24315-000200	O-RING, 1BP20.0	8	8						

Fig.43. CUT OFF VALVE

(A)=VIO10-2A(KR)
(B)=VIO10-2B(KR)
(C)=

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

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

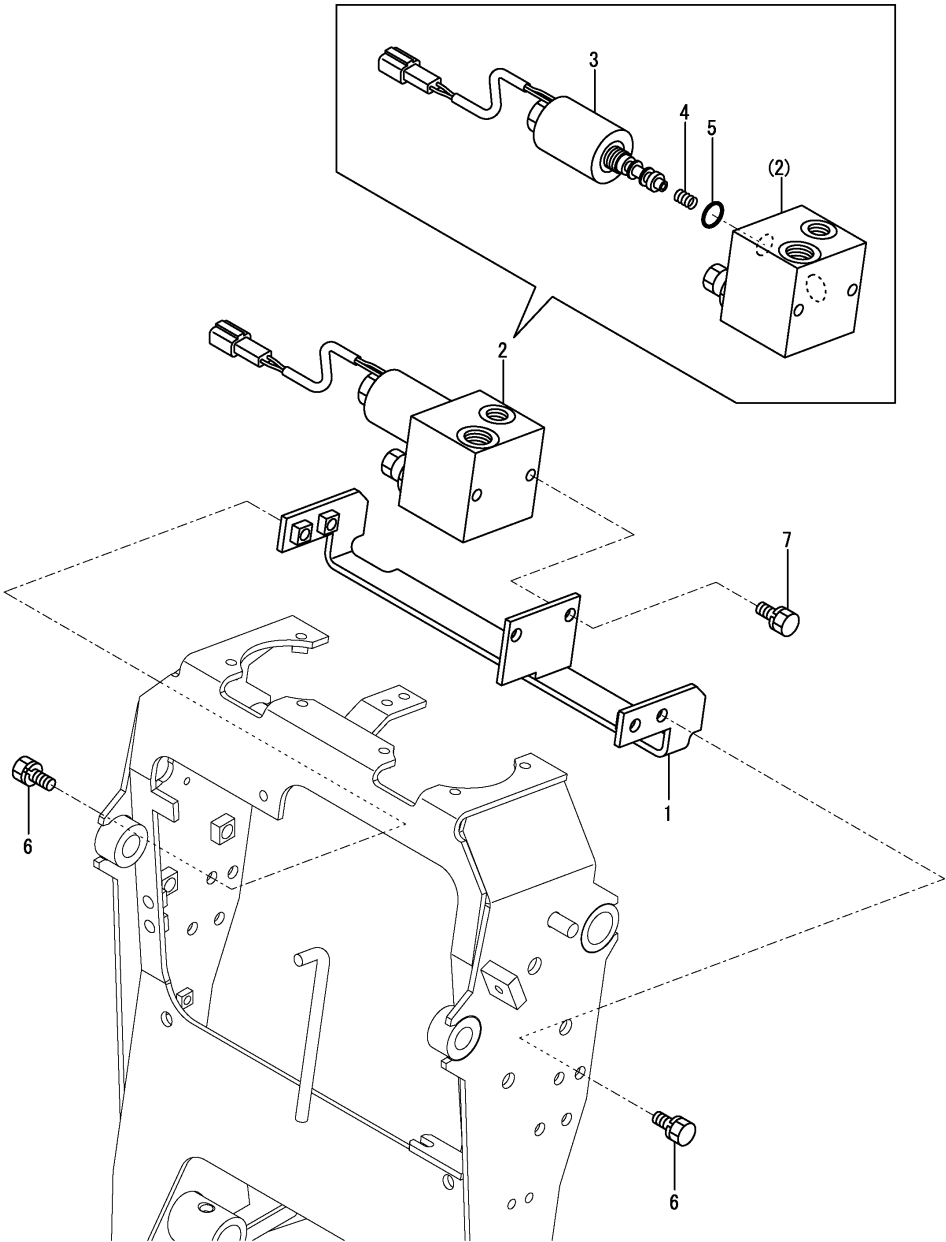
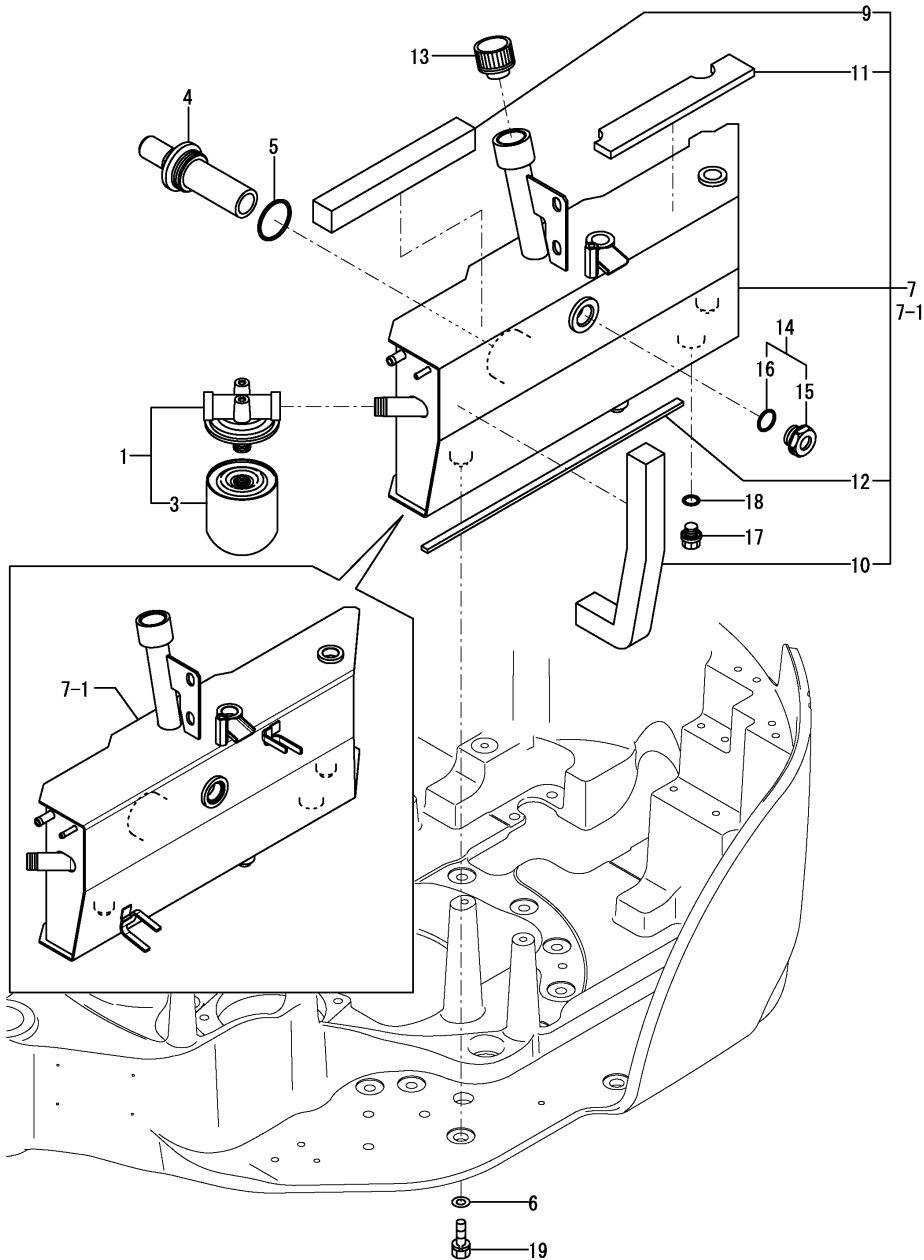


Fig.44. HYD. OIL TANK

(A)=VIO10-2A(KR)
(B)=VIO10-2B(KR)
(C)=

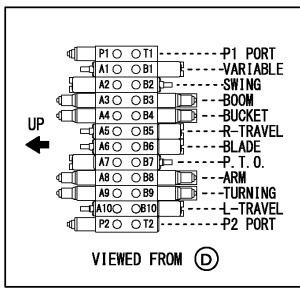
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172156-73700	FILTER ASSY, RETURN	1	1						
3	2	172156-73710	ELEMENT, FILTER	1	1						
4	1	172480-73700	FILTER, SUCTION	1	1						
5	1	24315-000440	O-RING 1B P-44.0	1	1						
6	1	194145-04810	WASHER, 10	3	3						
7	1	172A54-75100	RESERVOIR ASSY	1	1						
7-1	1	172A54-75101	RESERVOIR ASSY	1	1						S
		(A=M2G486) (B=M2G486)									
9	2	172480-75250	SEAL, RESERVER A	1	1						
10	2	172480-75260	SEAL, RESERVER B	1	1						
11	2	172480-75270	SEAL, RESERVER C	1	1						
12	2	172480-75280	SEAL, RESERVER D	1	1						
13	1	172446-75250	CAP, RESERVOIR	1	1						
14	1	172480-75350	GAUGE ASSY,RESERVOIR	1	1						
15	2	172480-75360	GAUGE, RESERVOIR	1	1						
16	2	24311-350220	O-RING, 1AP22A	1	1						
17	1	23491-140002	PLUG, 14	1	1						
18	1	24311-000160	O-RING, 1AP16.0	1	1						
19	1	26013-100202	BOLT, M10X 20	3	3						



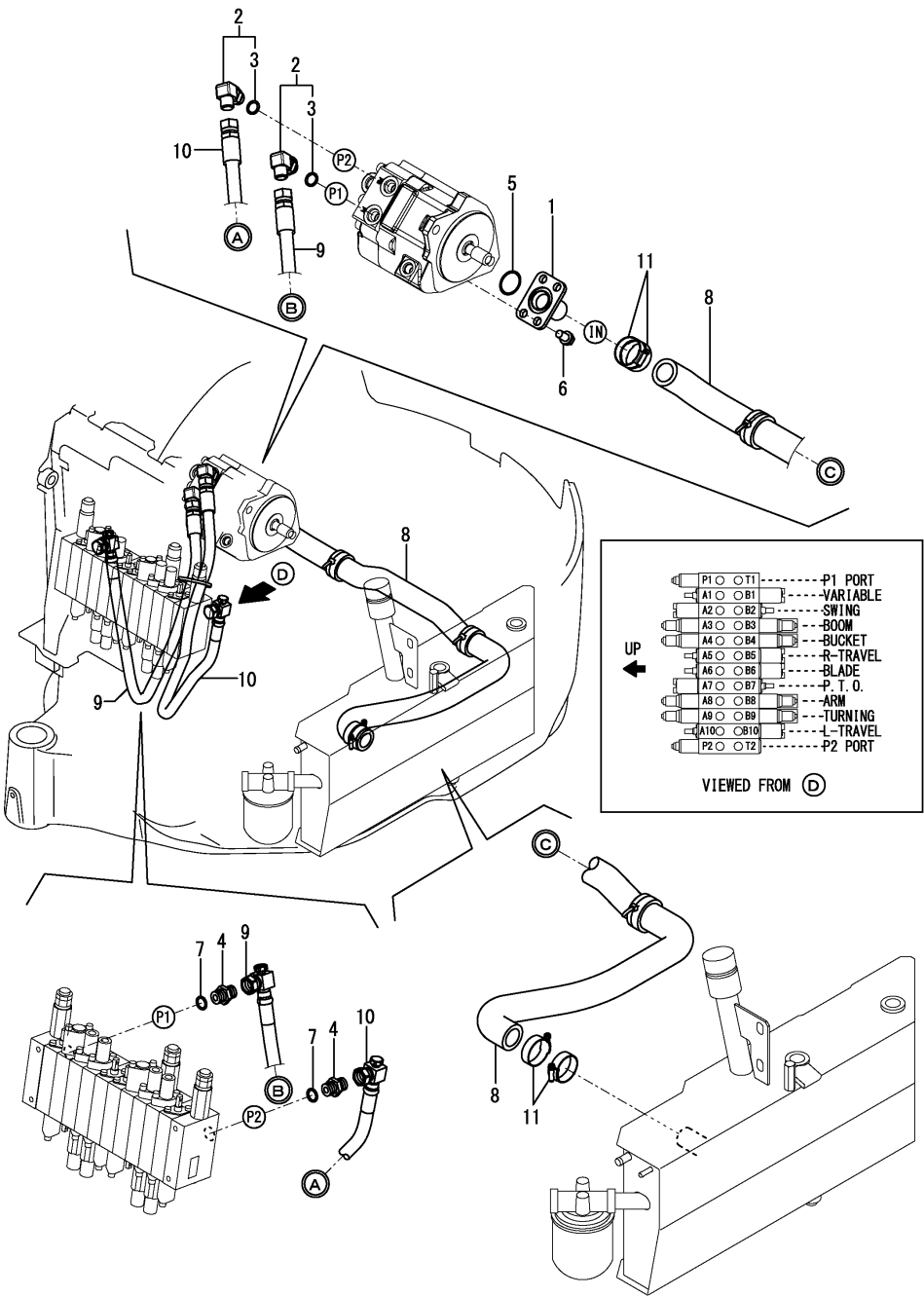
(A)=VIO10-2A(KR)
(B)=VIO10-2B(KR)
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172142-76100	CONNECTOR, PF3/4	1							
2	1	172142-76181	JOINT ASSY	2							
2A	2	24315-000140	O-RING, 1BP14.0	2							N
		(A=M22501)									
3	1	172186-76410	ADAPTER	2							
4	1	24315-000140	O-RING, 1BP14.0	2							
4-1	1	41851-000140	O-RING	2							N
		(A=M24102)									
5	1	24315-000240	O-RING, 1BP24.0	1							
5-1	1	41851-000240	O-RING	1							N
		(A=M24102)									
6	1	172480-78100	HOSE ASSY, SUCTION	1							
7	1	172480-78150	HOSE	1							
8	1	172480-78160	HOSE	1							
9	1	23001-041000	CLAMP, HOSE 41	4							

Fig.64. (45A)TANK - PUMP - VALVE(PUMP : F SPEC.)(FROM M28675)



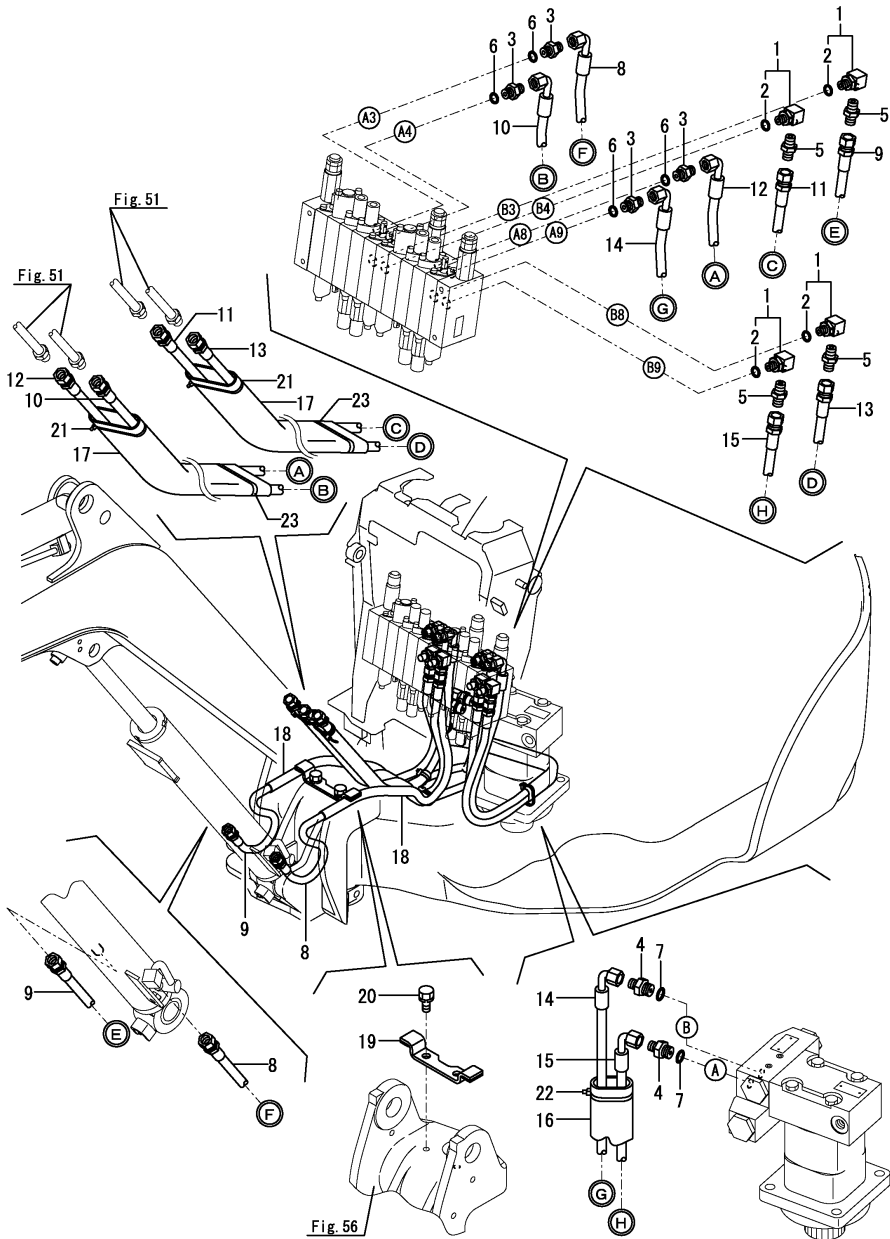
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172116-76160	FLANGE, SUCTION	1	1						W
(A=M28675)											
2	1	172142-76181	JOINT ASSY	2	2						
3	2	24315-000140	O-RING, 1BP14.0	2	2						
4	1	172186-76410	ADAPTER	2	2						
5	1	24315-000300	O-RING, 1BP30.0	1	1						
6	1	26013-100252	BOLT, M10X 25	4	4						
7	1	41851-000140	O-RING	2	2						
8	1	172A54-78100	HOSE ASSY,SUCTION	1	1						
9	1	172480-78150	HOSE	1	1						
10	1	172A54-78160	HOSE,H206BZ092K	1	1						
11	1	23001-041000	CLAMP, HOSE 41	4	4						

Fig.46. CONTROL VALVE - TURNING MOTOR & BOOM

(A)=VIO10-2A(KR)
(B)=VIO10-2B(KR)
(C)=

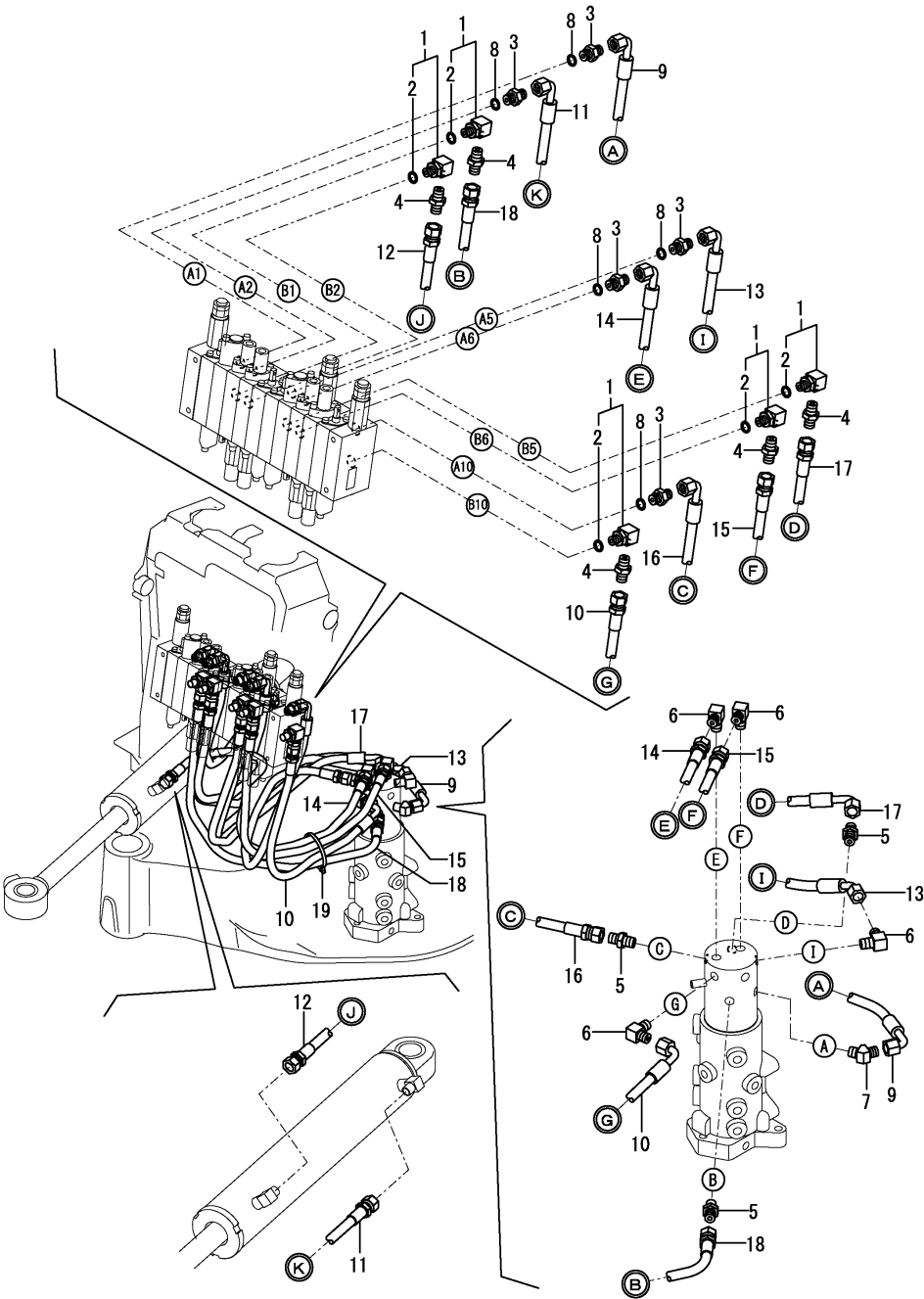
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172137-76100	ELBOW	4	4						
2	2	24315-000110	O-RING, 1BP11.0	4	4						
3	1	172123-76121	ADAPTER	4	4						
4	1	172157-76150	CONNECTOR	2	2						
5	1	23391-020000	JOINT, RGI-1/4	4	4						
6	1	24315-000110	O-RING, 1BP11.0	4							
6-1	1	41851-000110	O-RING	4	4						N
(A=M24102)											
7	1	24315-000140	O-RING, 1BP14.0	2							
7-1	1	41851-000140	O-RING	2	2						N
(A=M24102)											
8	1	172480-78240	HOSE	1	1						
9	1	172480-78250	HOSE	1	1						
10	1	172480-78260	HOSE	1							
10-1	1	172480-78261	HOSE,F204BC074K	1	1						S 1
(A=M28006)											
11	1	172480-78270	HOSE	1							
11-1	1	172480-78271	HOSE,F204BB063K	1	1						S 1
(A=M28006)											
12	1	172480-78370	HOSE	1							
12-1	1	172480-78371	HOSE,F204BC074K	1	1						S 1
(A=M28006)											
13	1	172480-78380	HOSE	1							
13-1	1	172480-78381	HOSE,F204BB065K	1	1						S 1
(A=M28006)											
14	1	172480-78410	HOSE	1	1						
15	1	172480-78420	HOSE	1	1						
16	1	172157-78640	COVER, HOSE	1	1						
17	1	172157-78640	COVER, HOSE	2							Z
(A=M28006)											
18	1	172142-78760	COVER, HOSE	2	2						
19	1	172186-78960-1	CLAMP, HOSE	1							
19-1	1	172186-78960-2	CLAMP, HOSE	1							S
(A=M23757)											
19-2	1	172186-78960-Y	CLAMP, HOSE	1	1						S
(A=M28001)											
20	1	26013-100202	BOLT, M10X 20	2	2						
21	1	933168-55770	BAND	4							Z
(A=M28006)											
22	1	933168-55770	BAND	2	2						
23	1	172126-11510	BAND	2							W
(A="2016.05.)											



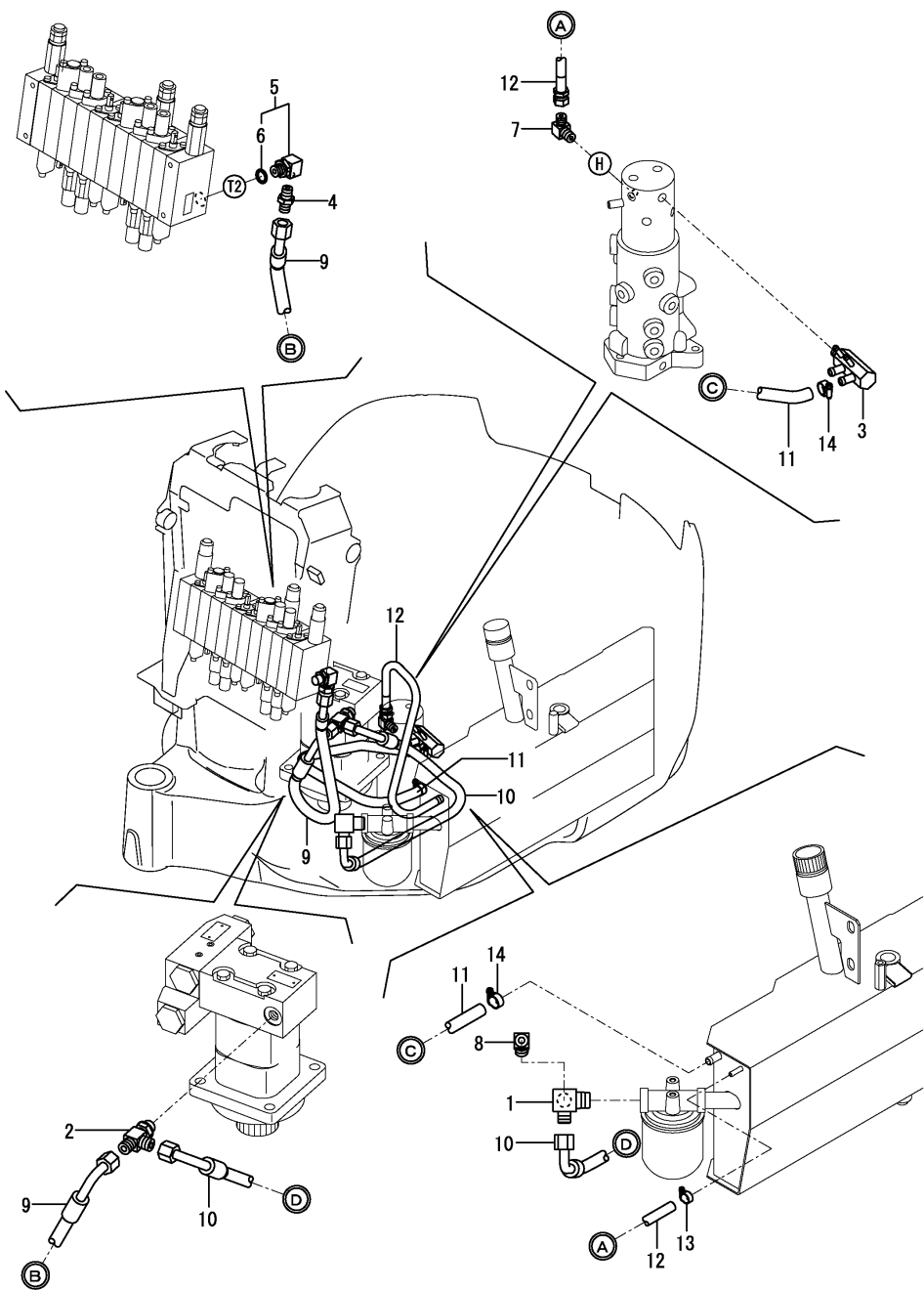
Remarks
(1)No.10-1, 11-1, 12-1, 13-1 is with cordura.

Fig.47. CONTROL VALVE - SWIVEL JOINT & SWING CYLINDER



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172137-76100	ELBOW	5	5						
2	2	24315-000110	O-RING, 1BP11.0	5	5						
3	1	172123-76121	ADAPTER	5	5						
4	1	23391-020000	JOINT, RGI-1/4	5	5						
5	1	23391-020000	JOINT, RGI-1/4	3	3						
6	1	23393-020000	JOINT, 90RGI-1/4	4	4						
7	1	23394-020000	JOINT, 45RGI-1/4	1	1						
8	1	24315-000110	O-RING, 1BP11.0	5	5						
8-1	1	41851-000110	O-RING	5	5						N
(A=M24102)											
9	1	172480-78200	HOSE	1	1						
10	1	172446-78210	HOSE	1	1						
11	1	172446-78220	HOSE	1	1						
12	1	172480-78230	HOSE	1	1						
13	1	172480-78300	HOSE	1	1						
14	1	172480-78320	HOSE	1	1						
15	1	172480-78330	HOSE	1	1						
16	1	172480-78430	HOSE	1	1						
17	1	172446-78470	HOSE	1	1						
18	1	172446-78480	HOSE	1	1						
19	1	933168-55770	BAND	1	1						

Fig.48. RETURN(PUMP : K SPEC.)(TO M28674)



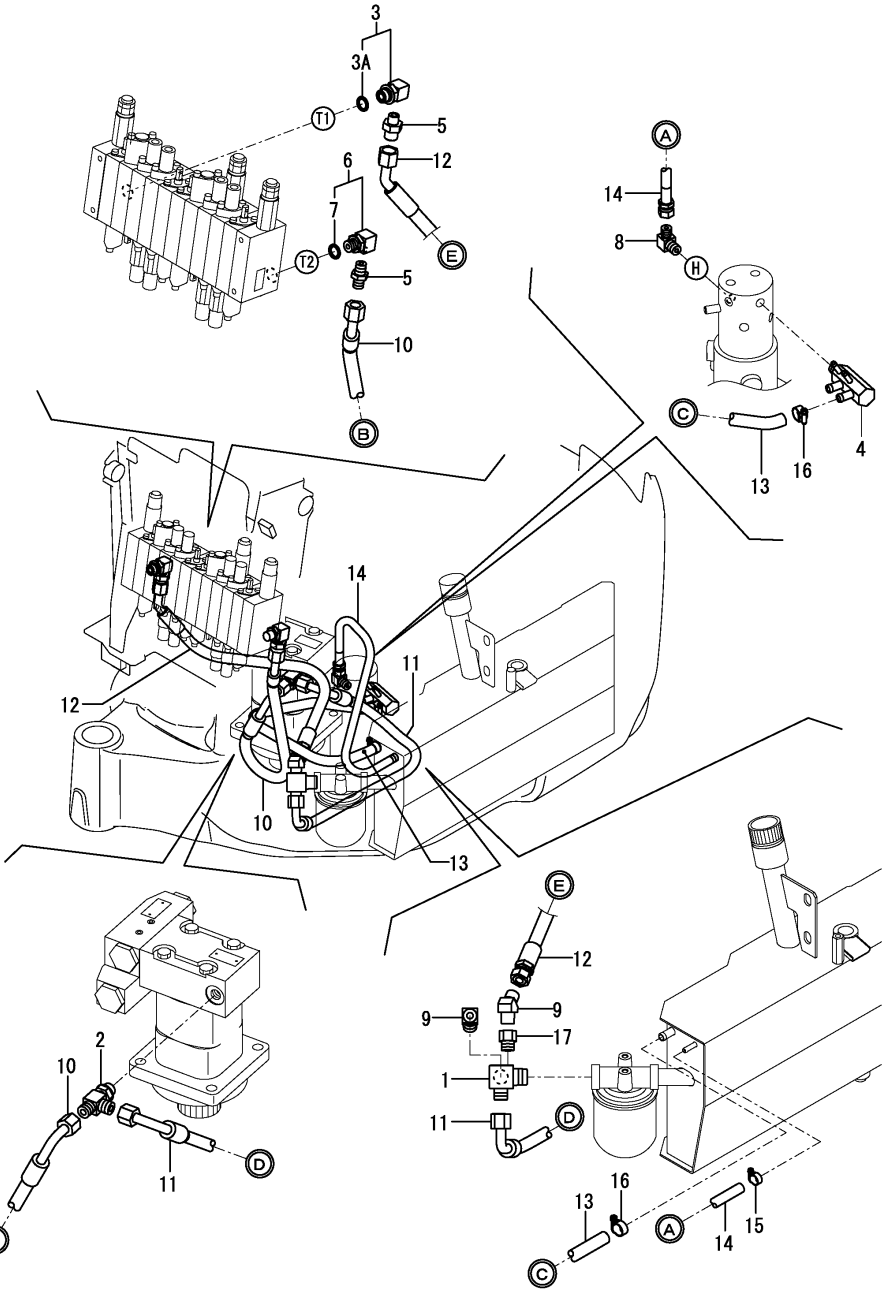
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172480-76100	CONNECTOR	1							
2	1	172480-76120	TEE, ADJUSTABLE	1							
3	1	172480-76200	CONNECTER, DRAIN	1							
4	1	172312-76240	NIPPLE, 1/4-3/8	1							
5	1	172186-76370	CONNECTOR, 3/8X1/4	1							
6	2	24315-000140	O-RING, 1BP14.0	1							
7	1	23393-020000	JOINT, 90RGI-1/4	1							
8	1	23394-030000	JOINT, 45RGI-3/8	1							
9	1	172480-78170	HOSE	1							
10	1	172480-78470	HOSE	1							
11	1	172480-78640	HOSE	1							
12	1	172480-79210	HOSE	1							
13	1	23000-013000	CLAMP, 13	1							
14	1	23001-016000	CLAMP, HOSE 16	2							

Fig.65. (48A)RETURN(PUMP : F SPEC.)(FROM M28675)

(A)=VIO10-2A(KR)
(B)=VIO10-2B(KR)
(C)=

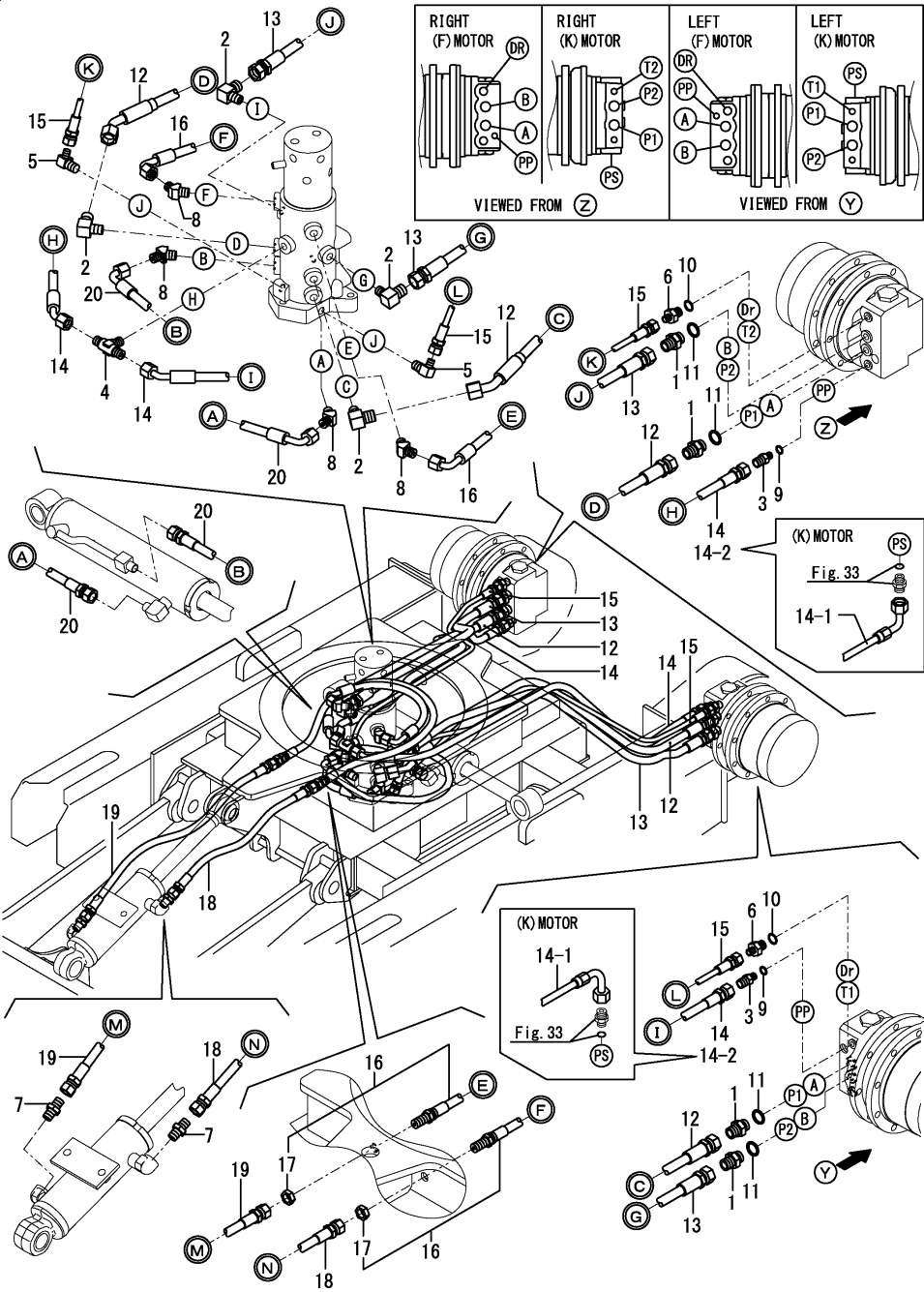
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172480-76101	CONNECTOR,4P	1	1						W
(A=M28675)											
2	1	172480-76120	TEE, ADJUSTABLE	1	1						
3	1	172A54-76150	ELBOW,G3/8-RC1/4	1	1						
3A	2	41851-000140	O-RING	1	1						
4	1	172480-76200	CONNECTER, DRAIN	1	1						
5	1	172312-76240	NIPPLE, 1/4-3/8	2	2						
6	1	172186-76370	CONNECTOR, 3/8X1/4	1	1						
7	2	24315-000140	O-RING, 1BP14.0	1	1						
8	1	23393-020000	JOINT, 90RGI-1/4	1	1						
9	1	23394-030000	JOINT, 45RGI-3/8	2	2						
10	1	172480-78170	HOSE	1	1						
11	1	172480-78470	HOSE	1	1						
12	1	172A54-78480	HOSE,G606BE052	1	1						
13	1	172480-78640	HOSE	1	1						
14	1	172480-79210	HOSE	1	1						
15	1	23000-013000	CLAMP, 13	1	1						
16	1	23001-016000	CLAMP, HOSE 16	2	2						
17	1	172633-76200	ADAPTER	1	1						





N:Old $\xrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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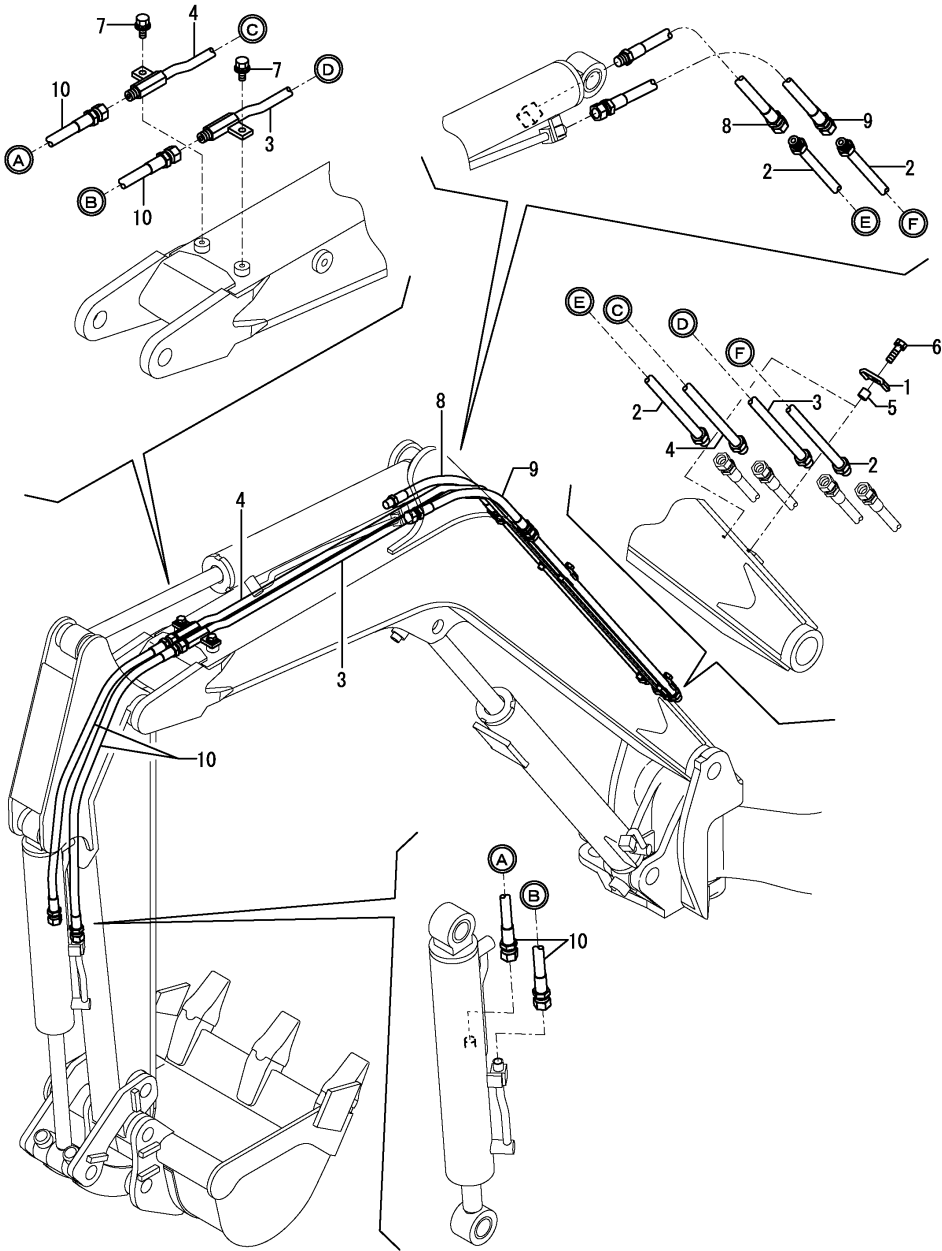
(A)=VIO10-2A(KR)
(B)=VIO10-2B(KR)
(C)=

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

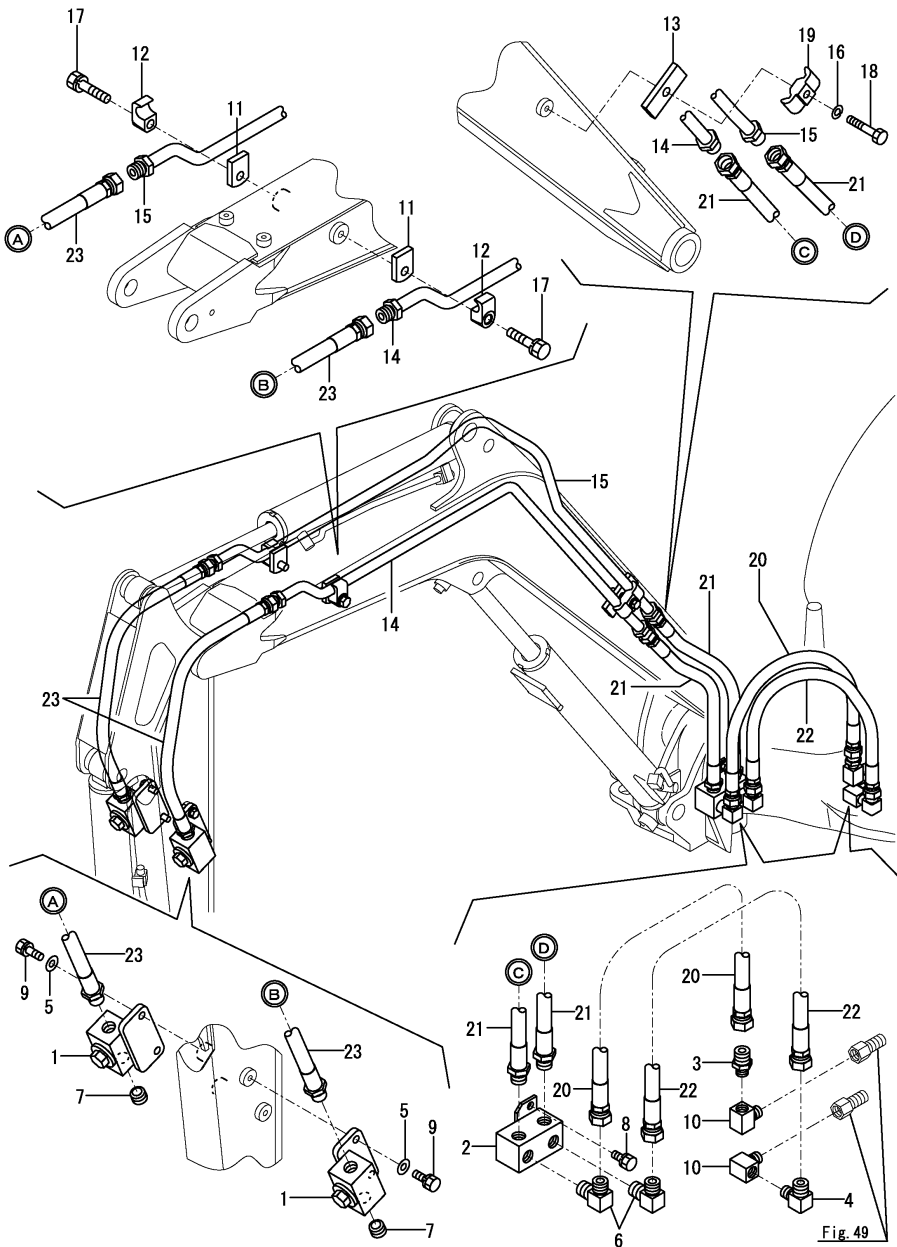
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172730-75141	ADAPTER	4	4						
2	1	172147-76180	ELBOW	4	4						
3	1	172447-76210	JOINT, G1/8-G1/4	2							Z
3-1	1	172447-76210	JOINT, G1/8-G1/4	2	2						W
		(A=M/#22701)									
4	1	172162-76320	CONNECTOR, 3X1/4	1	1						
5	1	172447-76520	JOINT	2	2						
6	1	172447-76700	JOINT, G1/4-G1/8	2	2						
7	1	23391-020000	JOINT, RGI-1/4	2	2						
8	1	23394-020000	JOINT, 45RGI-1/4	4	4						
9	1	24315-000080	O-RING, 1BP8.0	2							Z
		(A=M/#22701)									
9-1	1	24315-000080	O-RING, 1BP8.0	2	2						W
		(A=M/#24177)									
10	1	24315-000110	O-RING, 1BP11.0	2							
10-1	1	41851-000110	O-RING	2	2						N
		(A=M24102)									
11	1	24315-000140	O-RING, 1BP14.0	4							
11-1	1	41851-000140	O-RING	4	4						N
		(A=M24102)									
12	1	172480-78500	HOSE	2	2						
13	1	172480-78520	HOSE	2	2						
14	1	172446-78550	HOSE	2							
14-1	1	172A54-78550	HOSE	2							S
		(A=M/#22701)									
14-2	1	172446-78550	HOSE	2	2						S
		(A=M/#24177)									
15	1	172480-78560	HOSE	2	2						
16	1	172480-78580	HOSE	2	2						
17	2	172455-79740	NUT, LOCK 1/4	2	2						
18	1	172480-78600	HOSE	1	1						
19	1	172480-78610	HOSE	1	1						
20	1	172480-78620	HOSE	2	2						

(A)=VIO10-2A(KR)
(B)=VIO10-2B(KR)
(C)=

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

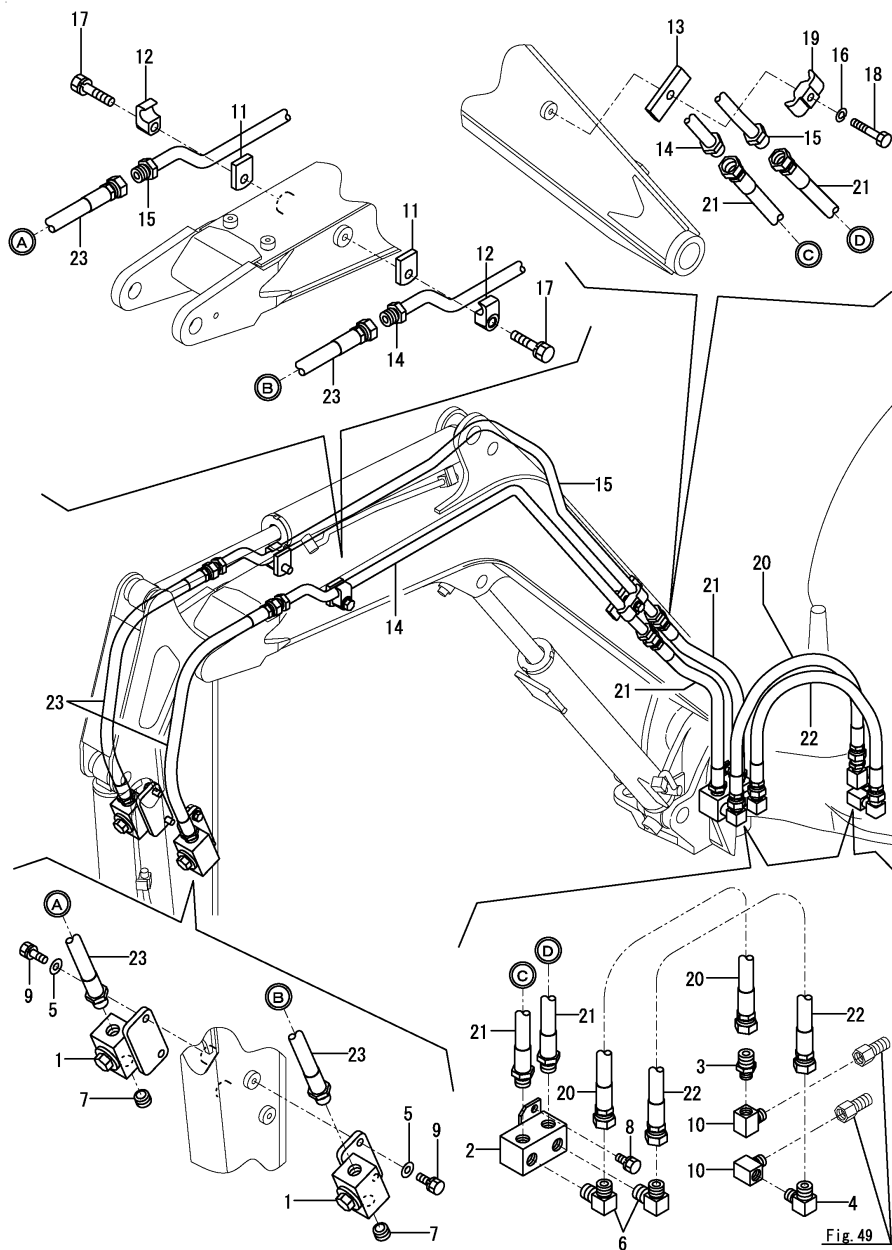


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172110-76170-1	PLATE	4							
1-1	1	172110-76170-3	PLATE	4							S
(A=M23757)											
1-2	1	172110-76170-5	PLATE	4	4						R
(A=M28001)											
2	1	172447-76400-1	TUBE ASSY, ARM	2							
2-1	1	172447-76400-2	TUBE ASSY, ARM	2							S
(A=M23757)											
2-2	1	172447-76400-Y	TUBE ASSY, ARM	2	2						S
(A=M28001)											
3	1	172447-76450-1	TUBE, BUCKET	1							
3-1	1	172447-76450-2	TUBE, BUCKET	1							S
(A=M23757)											
3-2	1	172447-76450-Y	TUBE, BUCKET	1	1						S
(A=M28001)											
4	1	172447-76500-1	TUBE ASSY, BUCKET	1							
4-1	1	172447-76500-2	TUBE ASSY, BUCKET	1							S
(A=M23757)											
4-2	1	172447-76500-Y	TUBE ASSY, BUCKET	1	1						S
(A=M28001)											
5	1	172137-76580	COLLAR	4	4						
6	1	26013-080252	BOLT, M8X 25	4	4						
7	1	26014-080162	BOLT, M8X 16	2	2						
8	1	172447-78260	HOSE	1	1						
9	1	172447-78270	HOSE	1	1						
10	1	172480-78280	HOSE	2	2						



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172183-74821	VALVE, STOP	2							1
1-1	1	172183-74821-3	VALVE, STOP	2						S	
(A=M23757)											
1-2	1	172183-74822-3	VALVE ASSY, STOP	2						N	
(A=M24499)											
1-3	1	172183-74822-Y	VALVE, STOP	2	2					N	
(A=M28001)											
1-4	1	172183-74822	VALVE ASSY, STOP 08	2						N	
(A=*2017.05.)											
2	1	172449-76650	JOINT ASSY, 1/2	1	1						
3	1	172141-76940	ADAPTER	1	1						
4	1	172141-76990	ELBOW	1	1						
5	1	22117-100000	WASHER, 10	4	4						
6	1	23393-040000	JOINT, 90RGI-1/2	2	2						
7	1	23871-040000	PLUG, R04	2	2						
8	1	26013-100202	BOLT, M10X 20	2	2						
9	1	26013-100252	BOLT, M10X 25	4	4						
10	1	933166-24240	ELBOW, SWIVEL JOINT	2	2						
11	1	172183-76250-1	PLATE	2							
11-1	1	172183-76250-2	PLATE, SPACER	2						S	
(A=M23757)											
11-2	1	172183-76250-Y	PLATE, SPACER	2	2					S	
(A=M28001)											
12	1	172175-76490-5	CLAMP	2							
12-1	1	172175-76490-2	CLAMP	2						S	
(A=M23757)											
12-2	1	172175-76490-Y	CLAMP	2	2					S	
(A=M28001)											
13	1	172175-76590-5	PLATE, SPACER	1							
13-1	1	172175-76590-1	PLATE, SPACER	1						S	
(A=M23757)											
13-2	1	172175-76590-Y	PLATE, SPACER	1	1					S	
(A=M28001)											
14	1	172480-76600-1	TUBE, PTO	1							
14-1	1	172480-76600-2	TUBE, PTO	1						S	
(A=M23757)											
14-2	1	172480-76600-Y	TUBE, PTO	1	1					S	
(A=M28001)											
15	1	172480-76620-1	TUBE, PTO	1							
15-1	1	172480-76620-2	TUBE, PTO	1						S	
(A=M23757)											
15-2	1	172480-76620-Y	TUBE, PTO	1	1					S	
(A=M28001)											
16	1	22217-100000	WASHER, SPRING 10	1	1						
17	1	26013-120502	BOLT, M12X 50	2	2						
17-1	1	26014-120552	BOLT, M12X 55	2	2					N	
(A=*2016.05.) (B=*2016.05.)											
18	1	26116-100552	BOLT, M10X 55 PLATED	1	1						
19	1	933155-09670-2	CLAMP, PIPE	1							
19-1	1	933155-09670-3	CLAMP, PIPE	1						S	
(A=M23757)											

Remarks
(1)Interchangeable by No.1-4.

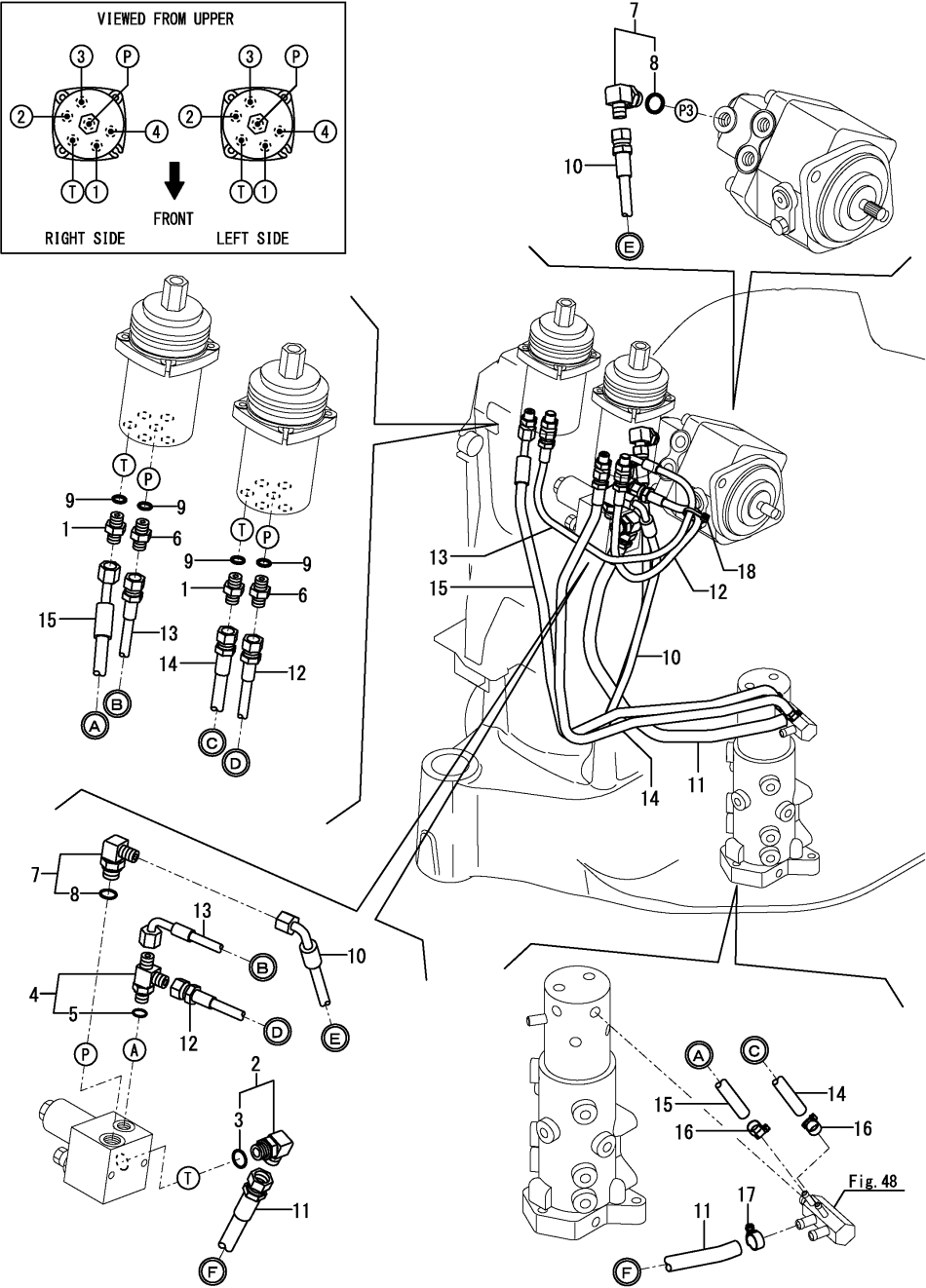
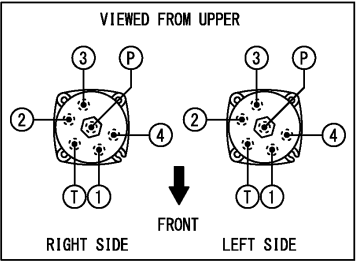


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
19-2	1	933155-09670-Y (A=M28001)	CLAMP, PIPE	1	1						S
20	1	172446-78810	HOSE	1	1						
21	1	172462-78920	HOSE H208AB051K	2	2						
22	1	172462-78930	HOSE	1	1						
23	1	172449-79150	HOSE	2							
23-1	1	172A64-78590 (A=M28169)	HOSE	2	2						R

(1) Interchangeable by No. 1-4.

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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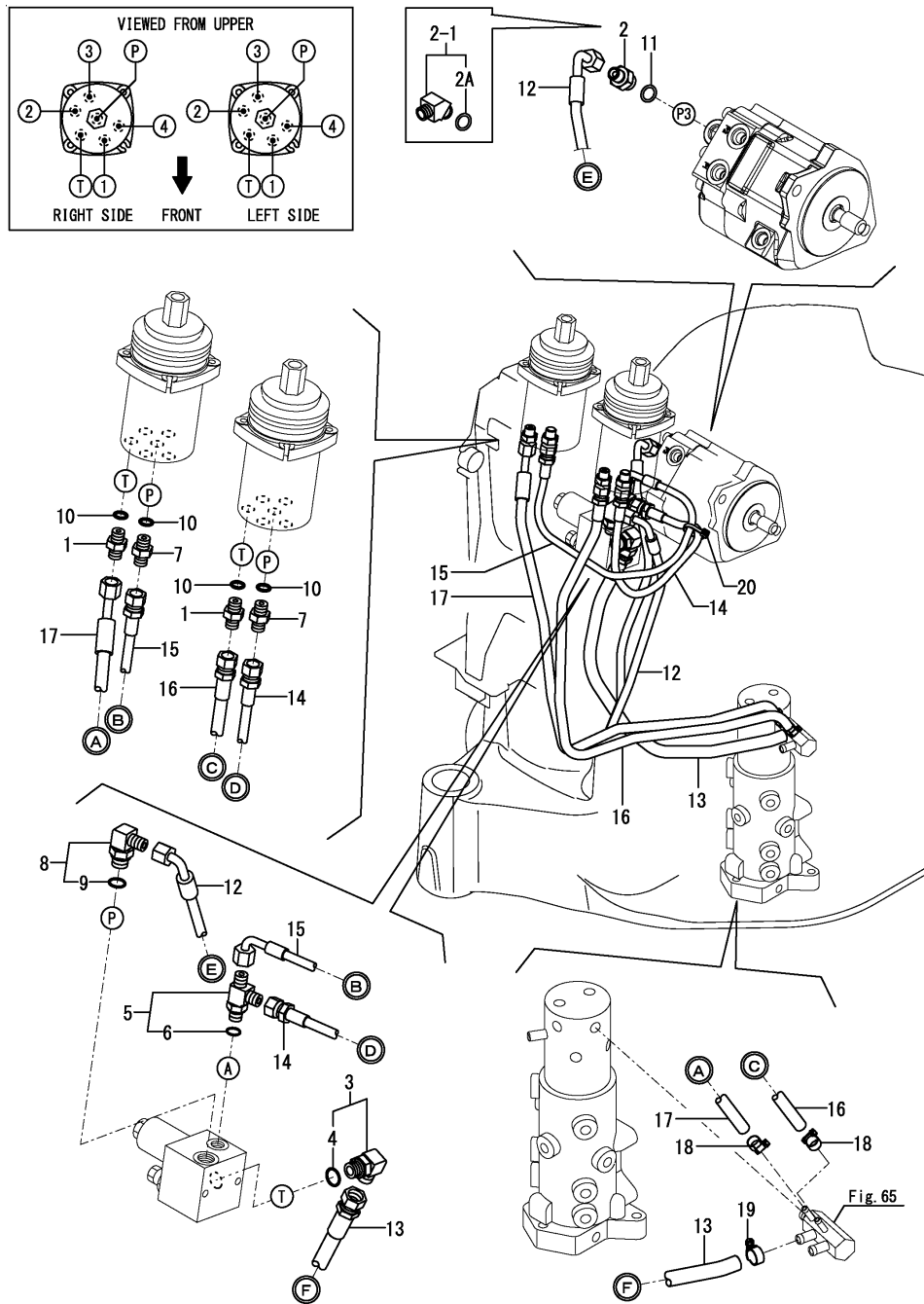
Fig.53. CONTROL PIPING(PUMP - VALVE - RETURN)(PUMP : K SPEC.)(TO M28674)



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172123-76121	ADAPTER	2							
2	1	172142-76181	JOINT ASSY	1							
3	2	24315-000140	O-RING, 1BP14.0	1							
4	1	172162-76180	JOINT ASSY, 3-1/4	1							
4-1	1	172162-76181	JOINT ASSY	1							N
(A=M24024)											
5	2	24315-000110	O-RING, 1BP11.0	1							
5-1	2	41851-000110	O-RING	1							N
(A=M24024)											
6	1	172455-76220	CONNECTOR	2							
7	1	172141-76920	CONNECTOR ASSY	2							
8	2	24315-000140	O-RING, 1BP14.0	2							
9	1	24315-000110	O-RING, 1BP11.0	4							
9-1	1	41851-000110	O-RING	4							N
(A=M24102)											
10	1	172480-78660	HOSE	1							
11	1	172480-78670	HOSE	1							
12	1	172480-78680	HOSE	1							
13	1	172480-78690	HOSE	1							
14	1	172480-78700	HOSE	1							
15	1	172480-78710	HOSE	1							
16	1	23000-013000	CLAMP, 13	2							
17	1	23001-016000	CLAMP, HOSE 16	1							
18	1	933168-55770	BAND	1							

Fig.66. (53A)CONTROL PIPING(PUMP - VALVE - RETURN)(PUMP : F SPEC.)(FROM M28675)

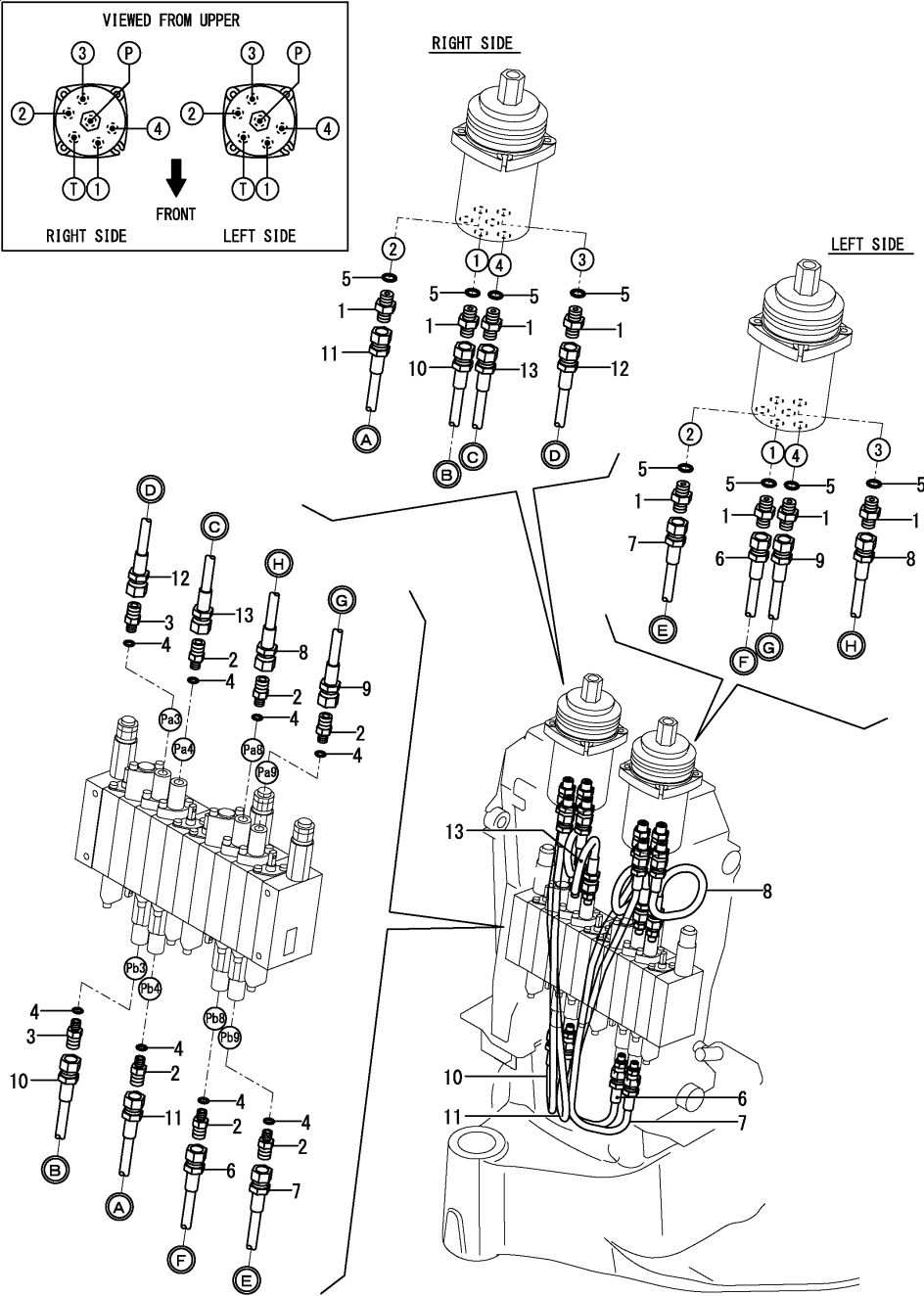
(D)=
(E)=
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172123-76121	ADAPTER	2	2						
2	1	172124-76160	CONNECTOR	1							W
		(A=M28675)									
2-1	1	172828-76340	CONNECTOR, 1/4X3/8	1	1						N
		(A=M28680)									
2A	2	24315-000140	O-RING, 1BP14.0	1	1						W
		(A=M28680) (B=M28680)									
3	1	172142-76181	JOINT ASSY	1	1						
4	2	24315-000140	O-RING, 1BP14.0	1	1						
5	1	172162-76181	JOINT ASSY	1	1						
6	2	41851-000110	O-RING	1	1						
7	1	172455-76220	CONNECTOR	2	2						
8	1	172141-76920	CONNECTOR ASSY	1	1						
9	2	24315-000140	O-RING, 1BP14.0	1	1						
10	1	41851-000110	O-RING	4	4						
11	1	41851-000140	O-RING	1	1						Z
		(A=M28680) (B=M28680)									
12	1	172A54-78660	HOSE,P404CC105K	1	1						
13	1	172480-78670	HOSE	1	1						
14	1	172480-78680	HOSE	1	1						
15	1	172480-78690	HOSE	1	1						
16	1	172480-78700	HOSE	1	1						
17	1	172480-78710	HOSE	1	1						
18	1	23000-013000	CLAMP, 13	2	2						
19	1	23001-016000	CLAMP, HOSE 16	1	1						
20	1	933168-55770	BAND	1	1						

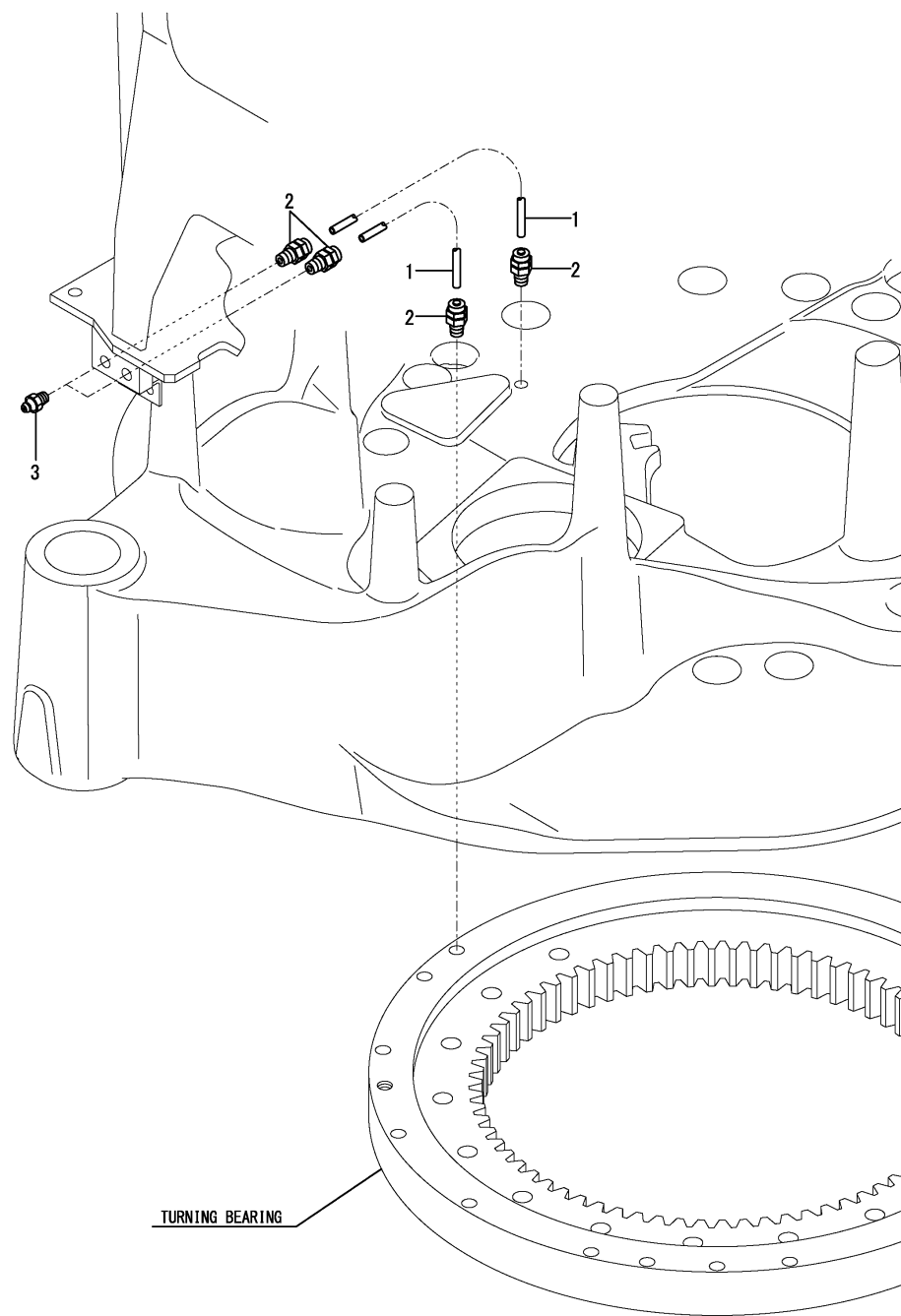
N:Old $\xrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.54. CONTROL PIPING(DIRECT SPEC.)



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172123-76121	ADAPTER	8	8						
2	1	172447-76210	JOINT, G1/8-G1/4	6	6						
3	1	172480-76230	CONNECTOR, 0.8	2	2						
4	1	24315-000080	O-RING, 1BP8.0	8	8						
5	1	24315-000110	O-RING, 1BP11.0	8							
5-1	1	41851-000110	O-RING	8	8						N
(A=M24102)											
6	1	172480-78730	HOSE	1	1						
7	1	172480-78740	HOSE	1	1						
8	1	172480-78750	HOSE	1	1						
9	1	172480-78760	HOSE	1	1						
10	1	172480-78770	HOSE	1	1						
11	1	172480-78780	HOSE	1	1						
12	1	172480-78790	HOSE	1	1						
13	1	172480-78800	HOSE	1	1						

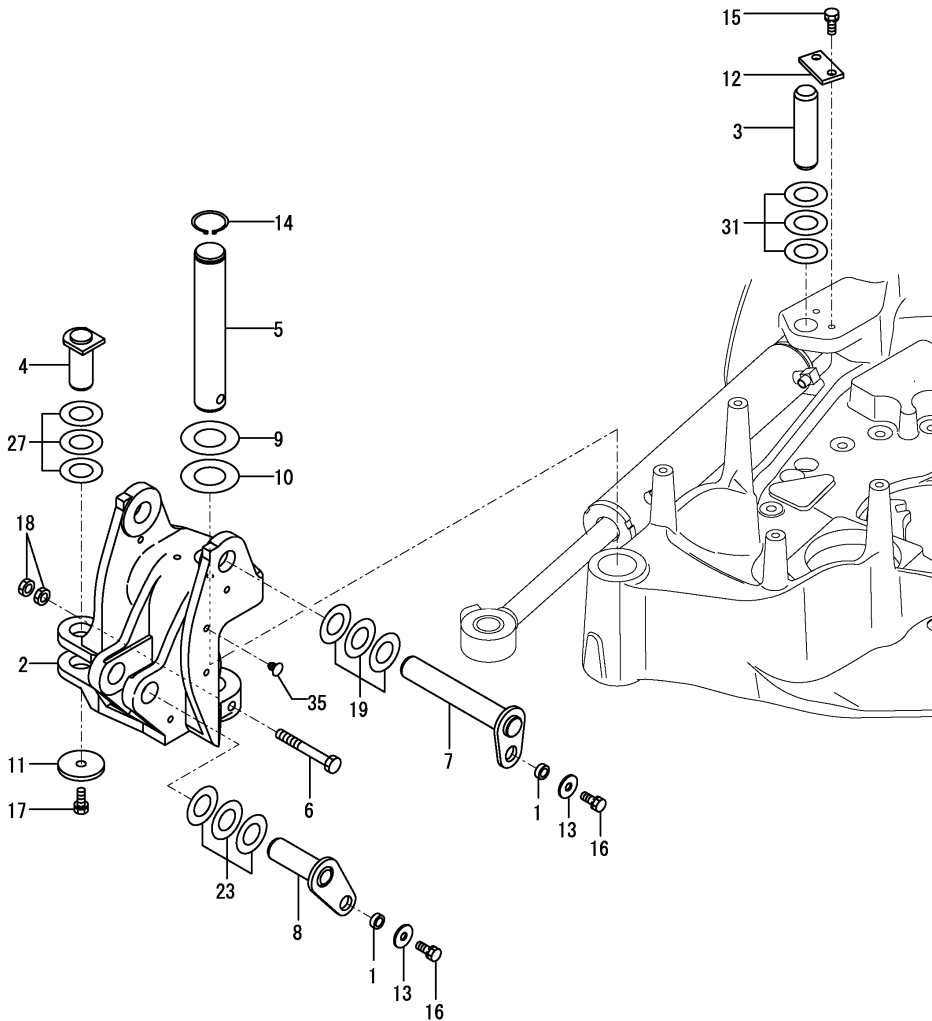
Fig.55. GREASING



(A)=VIO10-2A(KR)
(B)=VIO10-2B(KR)
(C)=

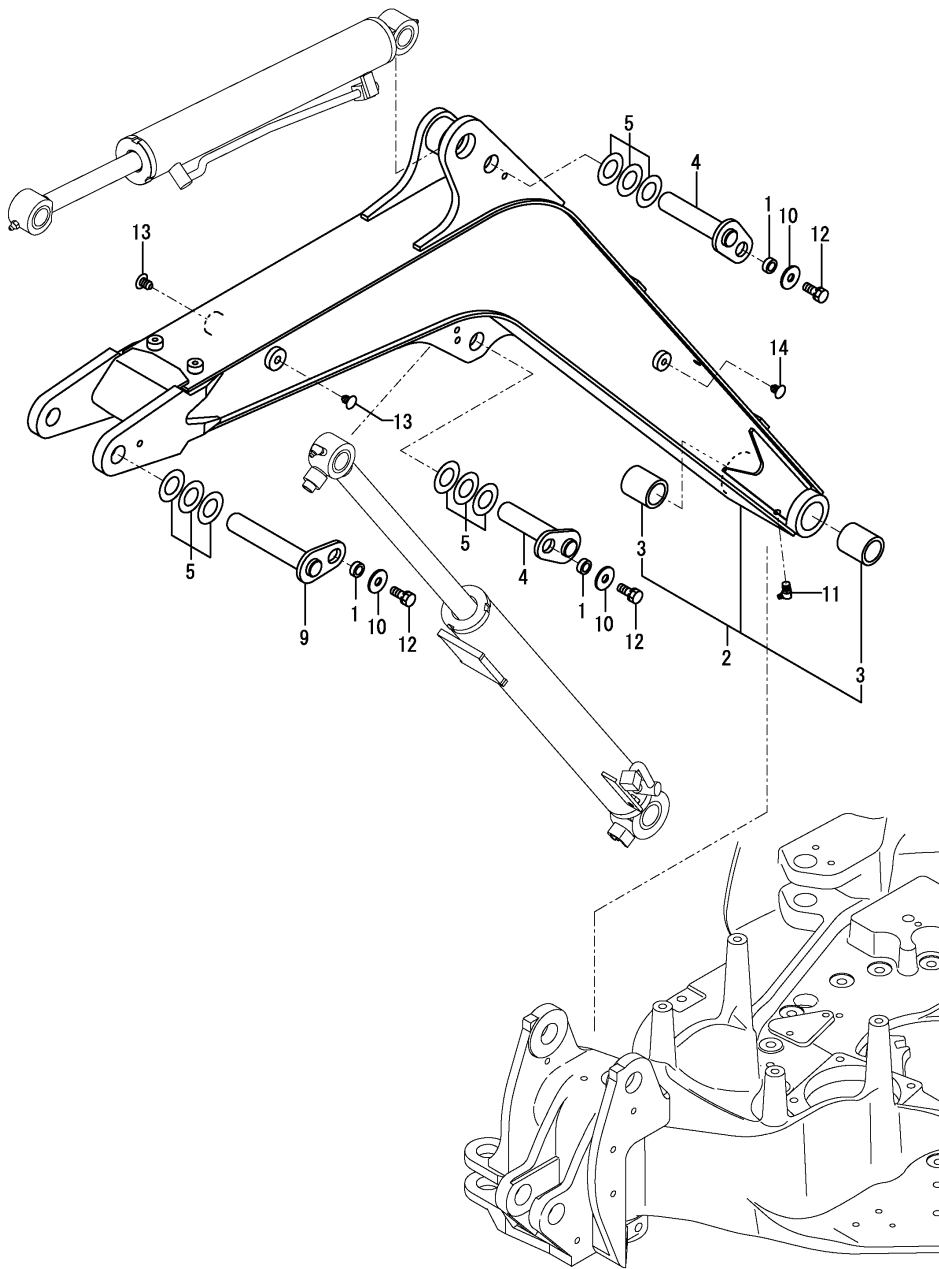
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172480-77100	HOSE	2	2						
2	1	172141-77800	JOINT, GREASE	4	4						
3	1	24761-020000	NIPPLE, GREASE PT1/8	2	2						



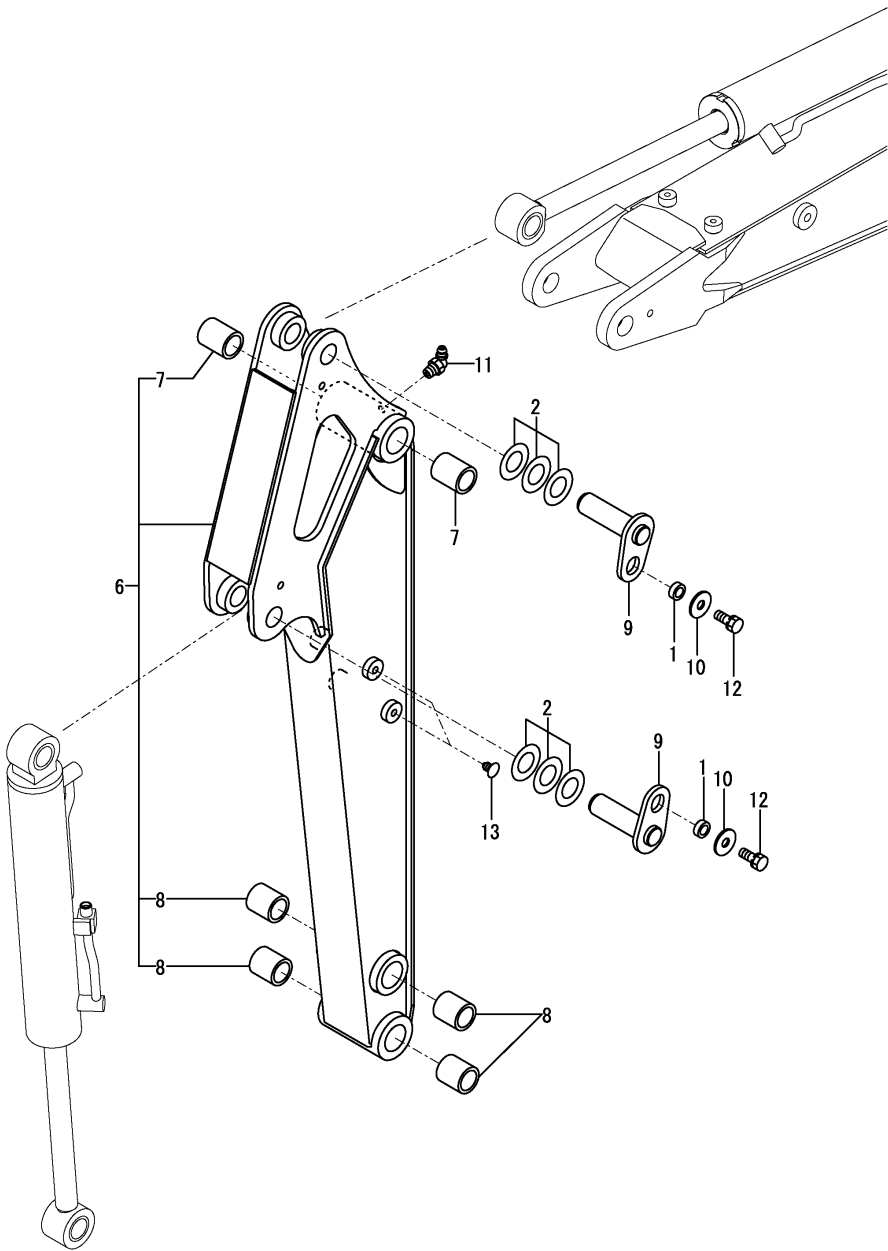
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172010-01640	SPACER	2	2						
2	1	172447-82300-1	BRACKET, BOOM	1							
2-1	1	172447-82300-2	BRACKET, BOOM	1							S
(A=M23757)											
2-2	1	172447-82300-Y	BRACKET, BOOM	1	1						S
(A=M28001)											
3	1	172A54-82310	PIN,30X117	1	1						
4	1	172A54-82320	PIN ASSY,30X68	1	1						
5	1	172A54-82340	PIN,40X242.5	1	1						
6	1	172157-82340	BOLT 12X 95	1	1						
7	1	172A54-82350	PIN ASSY,30X183	1	1						
8	1	172A54-82380	PIN ASSY,30X86	1	1						
9	1	172165-82580	SHIM	1	1						
10	1	172165-82590	SHIM	1	1						
11	1	172146-82910	SPACER	1	1						
12	1	172149-83190-1	PLATE, LOCK	1	1						
13	1	22157-100000	WASHER, 10	2	2						
14	1	22242-000400	RING, 40	1	1						
15	1	26013-100252	BOLT, M10X 25	2	2						
16	1	26013-100252	BOLT, M10X 25	2	2						
17	1	26013-120252	BOLT, M12X 25	1	1						
18	1	26756-120002	NUT, LOCK M12	2	2						
19	1	933160-06711	SHIM ASSY	1	1						
23	1	933160-06711	SHIM ASSY	1	1						
27	1	933160-06711	SHIM ASSY	1	1						
31	1	933160-06711	SHIM ASSY	1	1						
35	1	172183-81160	CLIP, TREE	2	2						

Fig.57. BOOM



No.	Lev.	Parts No.	Description	(A)=VIO10-2A(KR) (B)=VIO10-2B(KR) (C)=		(D)= (E)= (F)=				I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172010-01640	SPACER	3	3						
2	1	172480-81090-1	BOOM ASSY	1							
2-1	1	172480-81090-2	BOOM ASSY	1							S
2-2	1	172480-81090-Y	BOOM ASSY	1	1						S
3	2	172137-81300	BUSH 30X45, PIN	2	2						
4	1	172A54-81320	PIN ASSY,25X111	2	2						
5	1	172156-81400	SHIM ASSY	3	3						
9	1	172A20-81940	PIN ASSY, 25X140	1	1						
10	1	22157-100000	WASHER, 10	3	3						
11	1	24761-050000	NIPPLE, GREASE C	1	1						
12	1	26013-100252	BOLT, M10X 25	3	3						
13	1	172176-68210	CLIP, TREE	2	2						
14	1	172183-81160	CLIP, TREE	1	1						

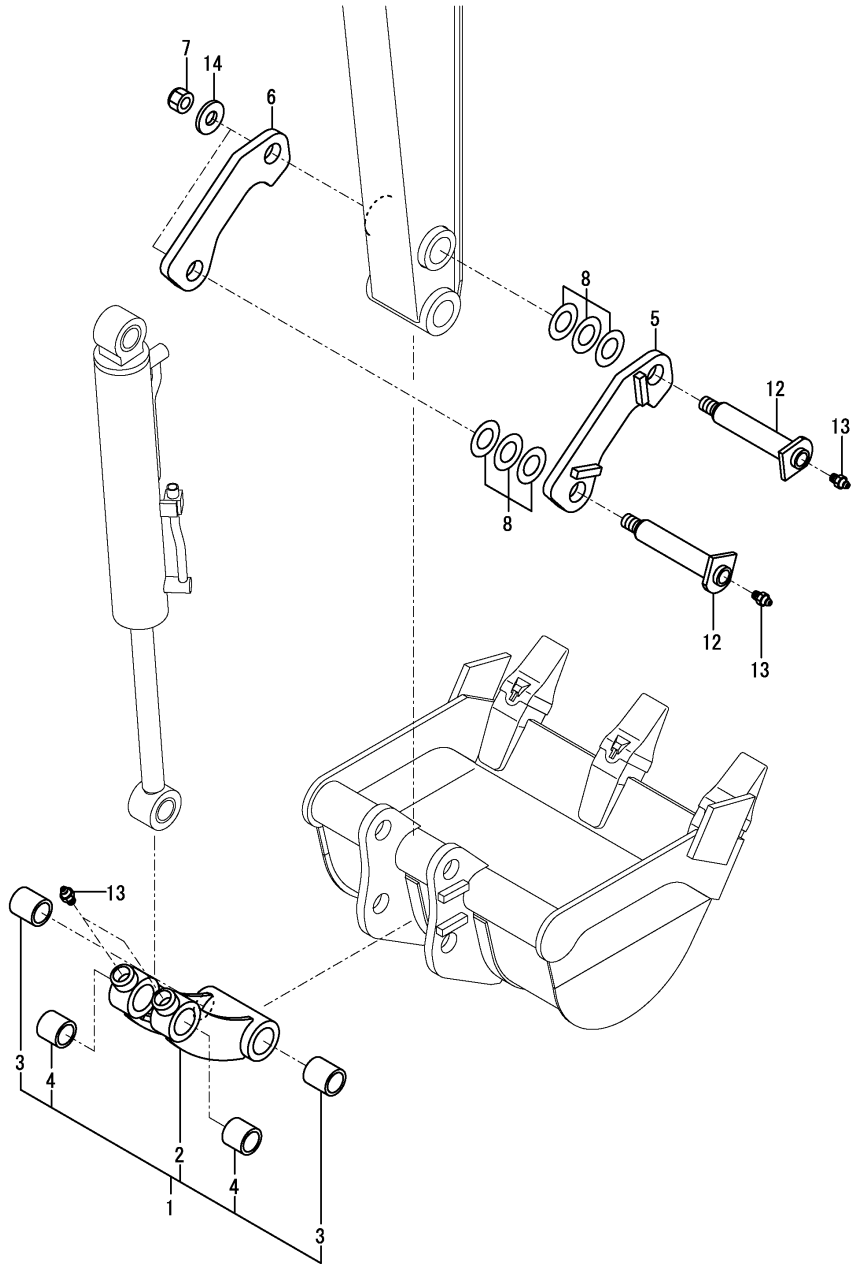
Fig.58. ARM



(A)=VIO10-2A(KR)
(B)=VIO10-2B(KR)
(C)=

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

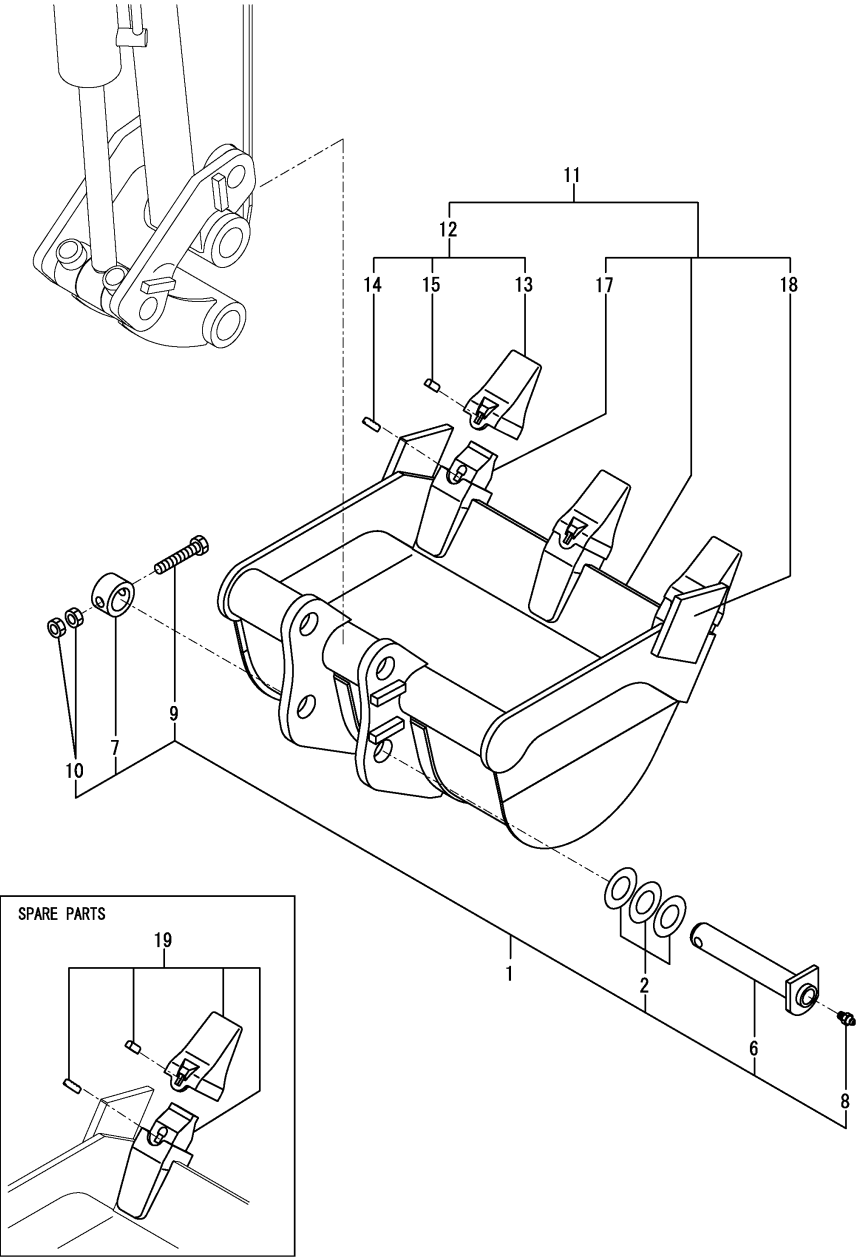
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172010-01640	SPACER	2	2						
2	1	172156-81400	SHIM ASSY	2	2						
6	1	172480-81600-1	ARM ASSY	1							
6-1	1	172480-81600-2	ARM ASSY	1							S
(A=M23757)											
6-2	1	172480-81600-Y	ARM ASSY	1	1						S
(A=M28001)											
7	2	172155-54220	BUSH 25-33	2	2						
8	2	172157-81360	BUSH 25 35 A, PIN	4	4						
9	1	172A20-81960	PIN ASSY, 25X83	2	2						
10	1	22157-100000	WASHER, 10	2	2						
11	1	24761-050000	NIPPLE, GREASE C	1	1						
12	1	26013-100252	BOLT, M10X 25	2	2						
13	1	172183-81160	CLIP, TREE	4	4						



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172157-81302-2	LINK, BUCKET	1							
1-1	1	172157-81302-3	LINK, BUCKET	1						S	
(A=M23757)											
1-2	1	172157-81302-Y	LINK, BUCKET	1	1					S	
(A=M28001)											
2	2	172480-81350-1	LINK, BUCKET	1							
2-1	2	172480-81350-2	LINK, BUCKET	1						S	
(A=M23757)											
2-2	2	172480-81350-Y	LINK, BUCKET	1	1					S	
(A=M28001)											
3	2	172157-81360	BUSH 25 35 A, PIN	2	2						
4	2	172157-81370	BUSH 25 35, PIN	2	2						
5	1	172157-81341-2	ARM, BUCKET	1	1						
5-1	1	172157-81341-3	ARM, BUCKET	1	1					S	
(A=M23757)											
5-2	1	172157-81341-Y	ARM, BUCKET	1	1					S	
(A=M28001)											
6	1	172157-81351-2	ARM, BUCKET	1							
6-1	1	172157-81351-3	ARM, BUCKET	1						S	
(A=M23757)											
6-2	1	172157-81351-Y	ARM, BUCKET	1	1					S	
(A=M28001)											
7	1	172137-81380	NUT, NYLON M16	2	2						
8	1	172156-81400	SHIM ASSY	2	2						
12	1	172A54-81780	PIN ASSY,25X121	2	2						
13	1	24761-020000	NIPPLE, GREASE PT1/8	4	4						
14	1	933147-08501	WASHER	2	2						

(A)=VIO10-2A(KR)
(B)=VIO10-2B(KR)
(C)=

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

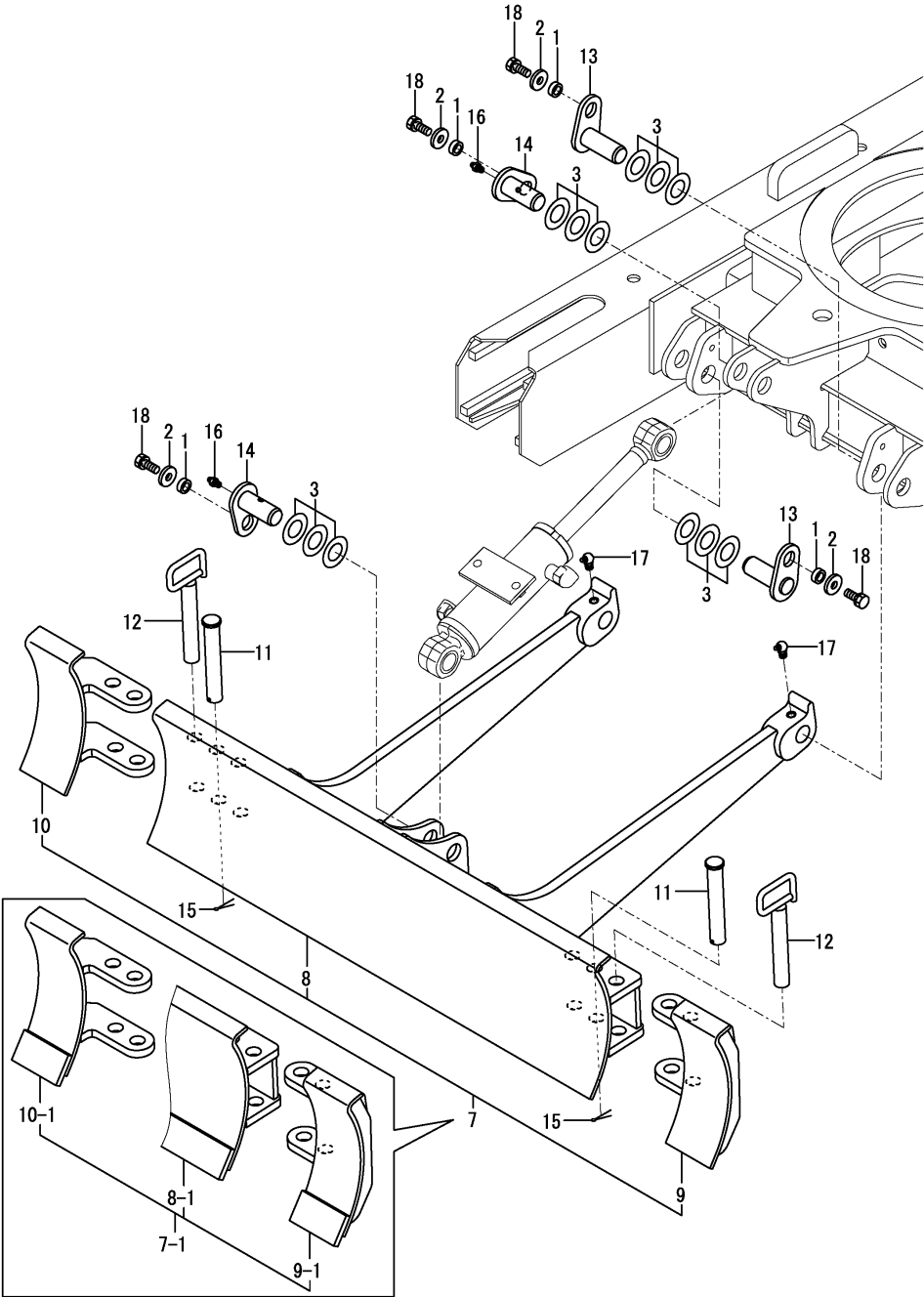


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A54-81900	PIN ASSY, BUCKET	2	2						
2	2	172156-81400	SHIM ASSY	2	2						
6	2	172A54-81800	PIN ASSY,25X133	2	2						
7	2	172186-81820	COLLAR, 25X38.1X22	2	2						
8	2	24761-020000	NIPPLE, GREASE PT1/8	2	2						
9	2	26116-100552	BOLT, M10X 55 PLATED	2	2						
10	2	26716-100002	NUT, M10	4	4						
11	1	172480-81400-1	BUCKET ASSY	1							
11-1	1	172480-81400-2	BUCKET ASSY	1							S
(A=M32757)											
11-2	1	172480-81400-N	BUCKET ASSY	1	1						S
(A=M28001)											
12	2	172480-81460	TOOTH KIT, POINT	3	3						
13	3	172480-81470	TOOTH, POINT	3	3						
14	3	172480-81480	PIN, LOCK PIN	3	3						
15	3	172480-81490	RUBBER, PIN	3	3						
17	3	172480-81450	ADAPTER, 13	3	3						
18	3	172137-86240-2	CUTTER, SIDE	2	2						
18-1	3	172137-86240-3	CUTTER, SIDE	2	2						S
(A=M32757)											
19	1	772480-81450-2	TOOTH ASSY	1	1						1

Remarks
(1)Spare parts.

(A)=VIO10-2A(KR)
(B)=VIO10-2B(KR)
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172010-01640	SPACER	4	4						
2	1	172110-36010	COLLAR	4	4						
3	1	172156-81400	SHIM ASSY	4	4						
7	1	172480-94050	BLADE ASSY (GRAY:49)	1							
7-1	1	172480-94051	BLADE ASSY (GRAY:49)	1	1						N
(A=M27001)											
8	2	172480-94101-1	BLADE ASSY (GRAY:49)	1							
8-1	2	172480-94102	BLADE, ASSY(GRAY:49)	1	1						S
(A=M27001)											
9	2	172480-94222-1	BLADE, SIDE L (GRAY:49)	1							
9-1	2	172480-94223	BLADE ASSY, SIDE L	1	1						S
(A=M27001)											
10	2	172480-94232-1	BLADE, SIDE R (GRAY:49)	1							
10-1	2	172480-94233	BLADE ASSY, SIDE R	1	1						S
(A=M27001)											
11	1	172480-94290	PIN 20X123	2	2						
12	1	172480-94300	PIN 20	2	2						
13	1	172A54-94350	PIN ASSY, 25X63	2	2						
14	1	172A54-94370	PIN ASSY, 25X59	2	2						
15	1	22417-400350	PIN, COTTER 4.0X35	2	2						
16	1	24761-020000	NIPPLE, GREASE PT1/8	2	2						
17	1	24761-040000	NIPPLE, GREASE B	2	2						
18	1	26013-100252	BOLT, M10X 25	4	4						

Fig.70. ADDITIONAL WEIGHT KIT(OPTIONAL)

(A)=VIO10-2A(KR)
(B)=VIO10-2B(KR)
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172480-08610	WEIGHT KIT,OP E	1	1						
2	2	172437-03331	LABEL, PROTECTOR US	1	1						
3	2	172480-53300	WEIGHT, COUNTER	1	1						
4	2	22137-200000	WASHER, 20	4	4						
5	2	22217-200000	WASHER, SPRING 20	4	4						
6	2	26076-201002	BOLT, 10.920X100	4	4						

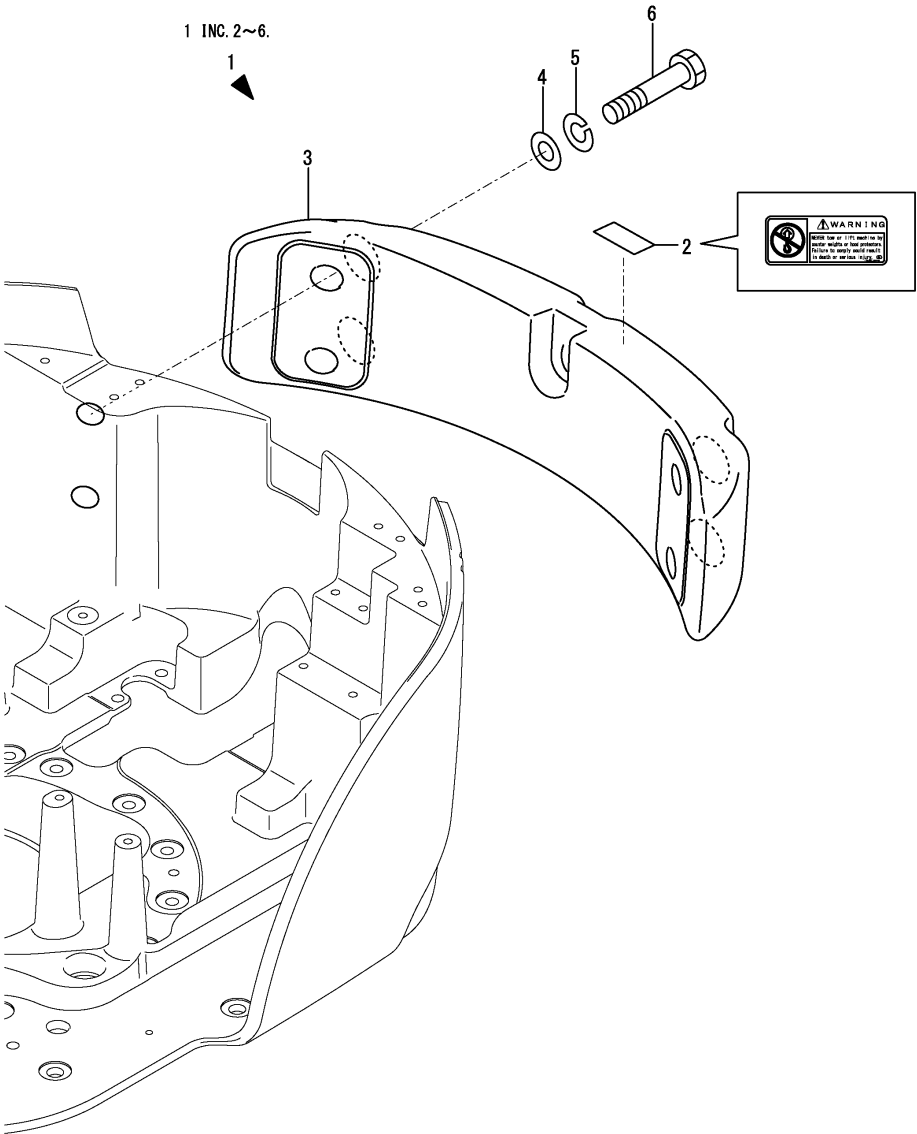
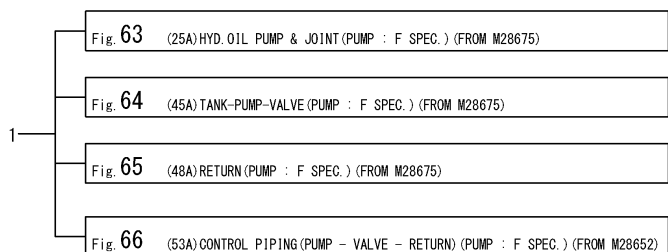


Fig.73. HYD. OIL PUMP EXCHANGE KIT(OPTIONAL)

[illegible]

(1) Refer to each figure, showing details of kit parts.

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Parts No.	Fig. No.	Ref. No.
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	44	19
	46	20
	52	8
	63	3
26013-100252	3	4
	5	15
		16
		17
		18
		19
		20
		21
	14	24
	22	12
	52	9
	56	15
		16
	57	12
	58	12
	61	18
	64	6
26013-100302	35	17
	62	20
26013-100352	3	16
26013-120252	12	10
		12
	56	17
	67	7
26013-120302	25	62
	63	36
26013-120402	34	43
26013-120502	52	17
26014-060162	11	41
		42
26014-060252	11	43
26014-080162	51	7
26014-100202	30	20
26014-100252	30	20 -1
26014-120552	52	17 -1
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		45
	18	25
		26
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26076-120452	21	21
26076-201002	70	6
26106-060162	69	29
26106-080162	69	30
26106-080202	23	1 D-1
26106-100122	20	15
26116-060162	11	46
26116-080122	8	35
26116-080162	9	10
	11	47
	21	12
26116-080252	22	13
26116-080254	4	13
26116-080304	18	16
26116-080454	17	15
26116-080804	18	17
26116-100162	10	22
26116-100202	11	48
26116-100552	52	18
	60	9
26116-120252	13	12
26346-080002	17	16
	18	18
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26347-100002	24	49
26366-080002	18	19
26367-100002	7	21
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26450-080202	25	55
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26450-100302	25	8
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26589-060162	14	26
26589-060202	14	27
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26716-080002	3	5
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	36	24
26716-100002	5	22
	60	10
26736-140002	5	23
	16	9
26756-080002	4	14
26756-100002	17	17
26756-120002	4	15
	56	18
26757-080002	18	20
26776-180002	11	50
29420-100000	10	5
	11	12
41851-000110	36	18 -1
	37	28 -1
	38	26 -1
	39	11 -1
	40	12 -1
		24 -1
	46	6 -1
	47	8 -1
	49	7 -1
	50	10 -1
	53	5 -1
		9 -1
	54	5 -1
	66	6
		10
41851-000140	37	29 -1
	38	27 -1
	40	13 -1
	45	4 -1
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41851-000140	66	11
41851-000240	33	55 -1
	45	5 -1
758842-86101	25	9
758842-86102	25	9 -1
772446-37101-1	13	2
772446-37300-3	12	3
772446-37301	67	9
772480-37100-1	13	1
772480-81450-2	60	19
772A54-03130	1	1
		1 -2
772A54-03131	1	1 -1
933110-54100	17	28
		29
	18	27
	19	10
933113-05180	11	52
933113-05190	11	51
933113-15900	11	53
933125-05300	29	17
933125-05400	26	12
933125-59600	29	20
933126-38600	13	25
933147-03400	26	28 -1
933147-08501	59	14
933152-03700	12	11
		13
	13	13
	67	8
933155-09670-2	52	19
933155-09670-3	52	19 -1
933155-09670-Y	52	19 -2
933160-06711	56	19
		23
		27
		31
933166-24240	52	10
933168-14170	26	31
933168-55770	6	33
	46	21
		22
	47	19
	53	18
	66	20
933170-01490	4	16
933171-13691	13	26
933171-15801	10	23

Parts No.	Fig. No.	Ref. No.
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0CB10-M72600EN

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.

Disclaimer

1. Our company will not assume any responsibility for the matters stipulated in each of the following items.

- 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.

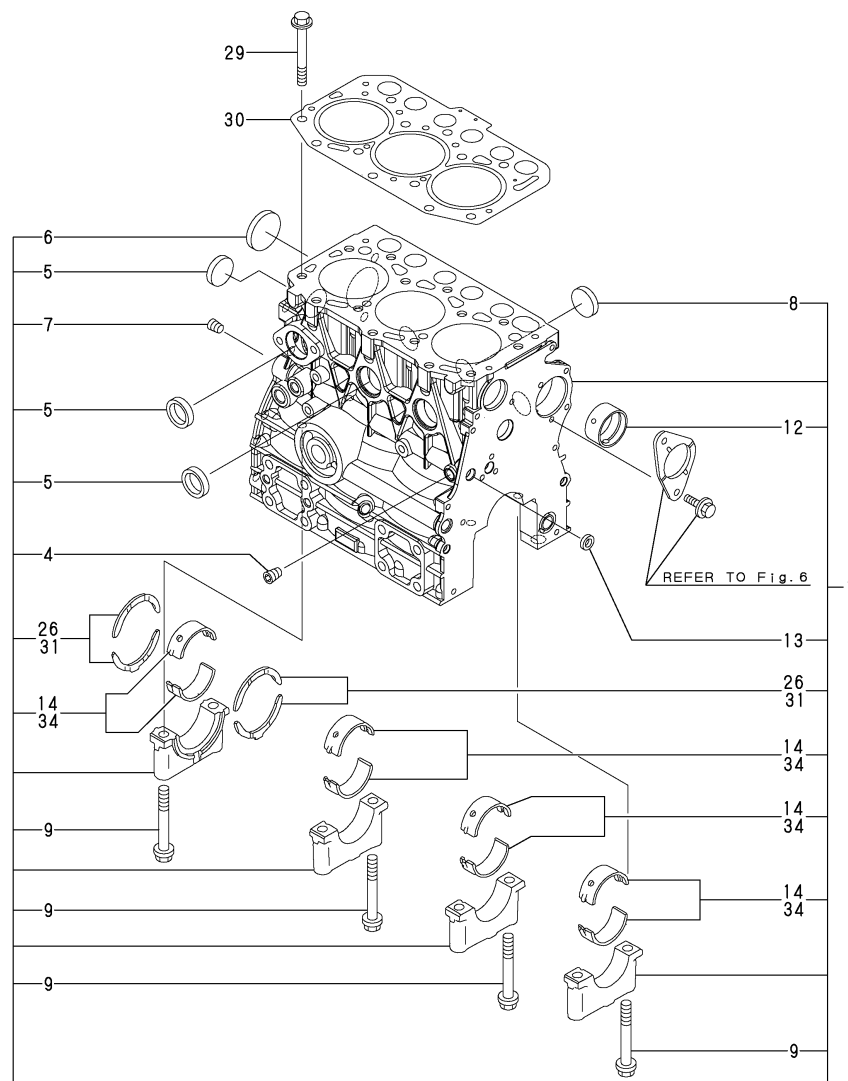
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4. When using this parts catalog, you must comply with the laws and regulations applicable in the country or region in which you use it. Our company assumes no responsibility for any violations of laws and regulations by the customer.

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

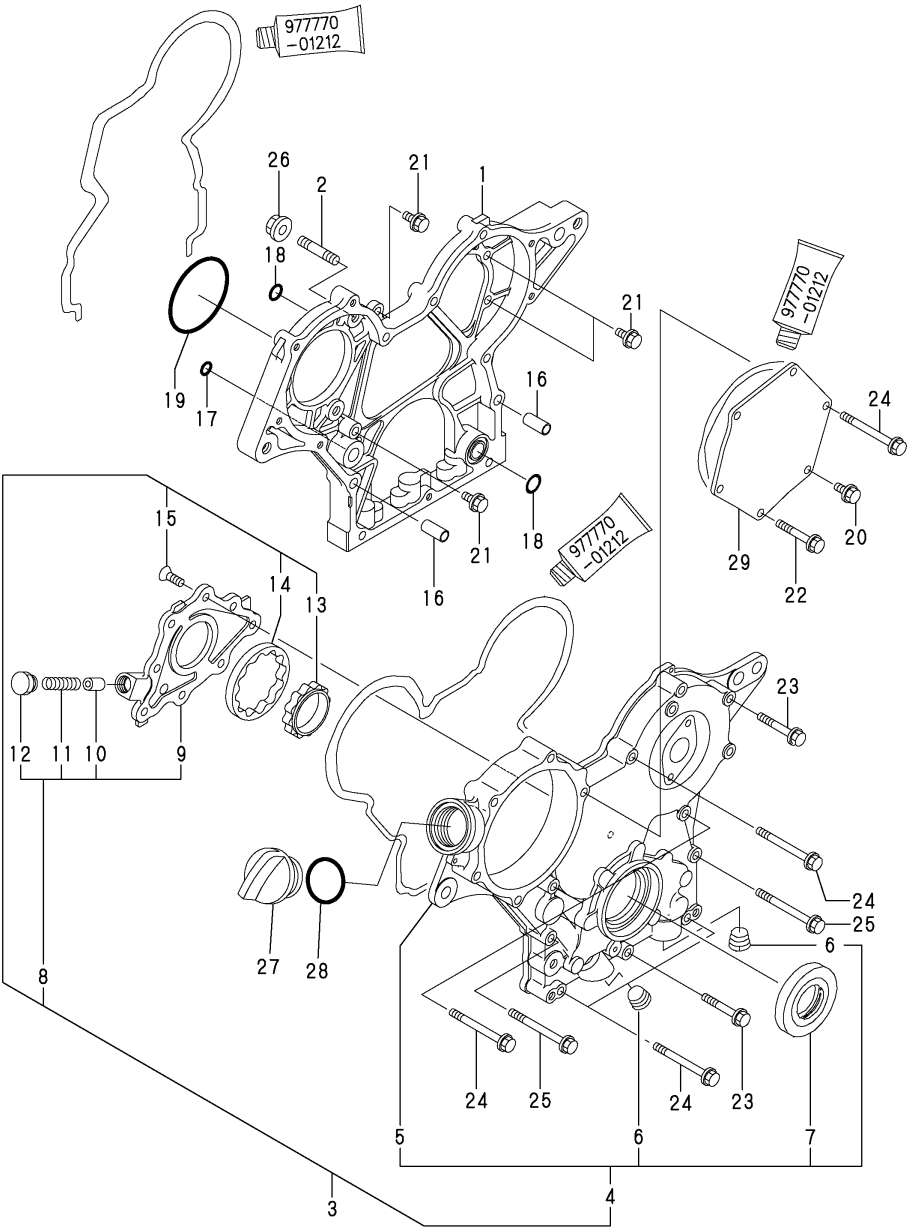


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719515-01560	BLOCK ASSY, CYLINDER	1							
4	3	124060-01050	PLUG, PT1/8	1							
5	3	105311-01090	PLUG, CUP TYPE 30	4							
6	3	119623-01250	PLUG, DISH TYPE 45	1							
7	3	124160-01910	PLUG, PT1/4	1							
8	3	119285-01990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

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

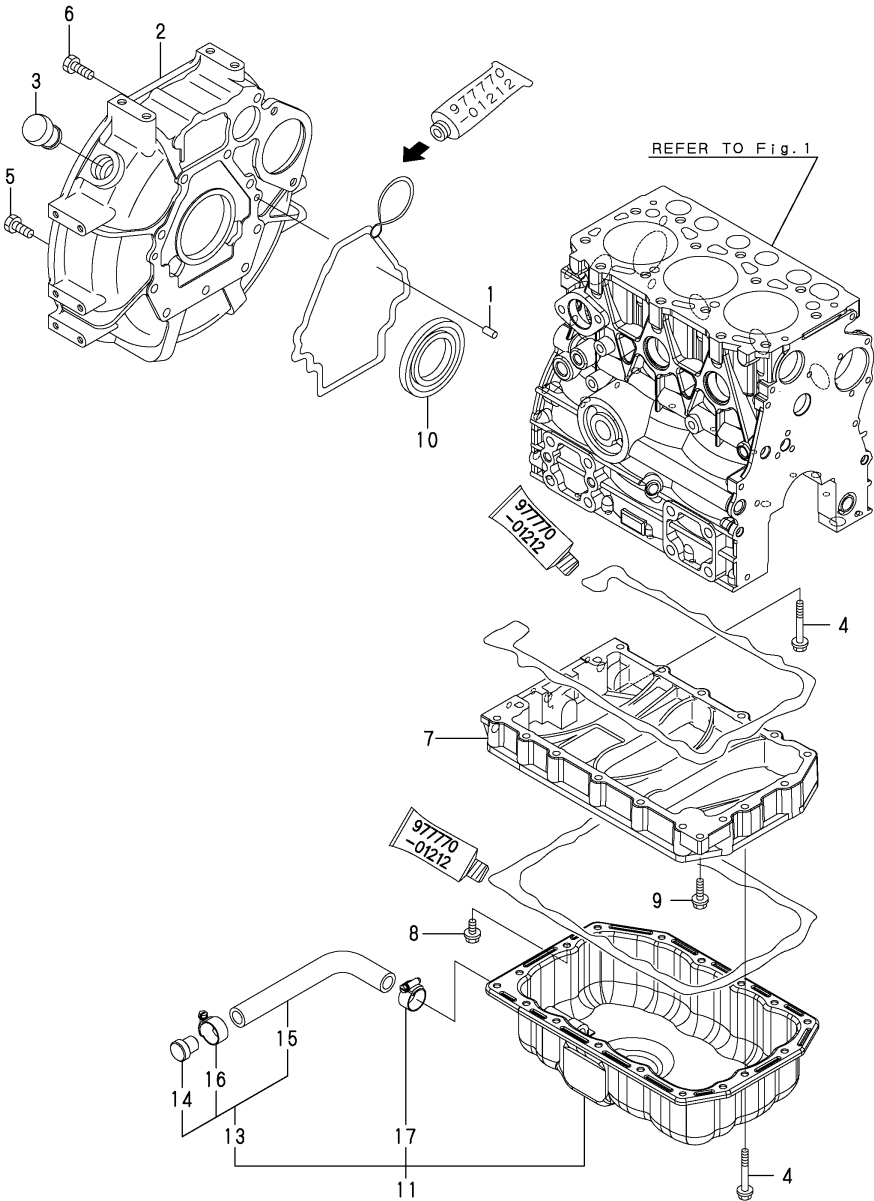
N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.2.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



OCB10-M72600 Fig.2													
(A)=3TNV70-WBVB (D)=													
(B)= (E)=													
(C)= (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	BOLT, STUD	3									
3	1	119717-01590	COVER ASSY,GEAR CASE	1									
4	2	719717-01500	COVER ASSY,GEAR CASE	1									
5	3	119717-01521	COVER, GEAR CASE	1									
6	3	23876-030000	PLUG, R03	2									
7	3	119620-01800	SEAL, OIL	1									
8	2	119717-32100	COVER ASSY	1									
9	3	119717-32080	COVER, PUMP	1									
10	3	129900-32130	VALVE, RELIEF	1									
11	3	129001-32320	SPRING	1									
12	3	129001-32330	PLUG	1									
13	2	119717-32110	ROTOR, INNER	1									
14	2	119717-32120	ROTOR, OUTER	1									
15	2	119802-32130	SCREW, M6X16	8									
16	1	119660-01911	PIPE, DOWEL 6X17	4									
17	1	119624-32040	O-RING, P12.0	1									
18	1	119717-32050	O-RING, P17.0	3									
19	1	121850-51960	O-RING	1									
20	1	26106-060122	BOLT, M6X 12 PLATED	1									
21	1	26106-060162	BOLT, M6X 16 PLATED	4									
22	1	26106-060402	BOLT, M6X 40 PLATED	4									
23	1	26106-060402	BOLT, M6X 40 PLATED	3									
24	1	26106-060602	BOLT, M6X 60 PLATED	7									
25	1	26106-060652	BOLT, M6X 65 PLATED	2									
26	1	26306-080002	NUT, M8	3									
27	1	124160-01751	CAP, FILLER	1									
28	1	24311-000320	O-RING, 1AP32.0	1									
29	1	119717-01750	COVER, PUMP	1									

Fig.3. FLYWHEEL HOUSING & OIL SUMP

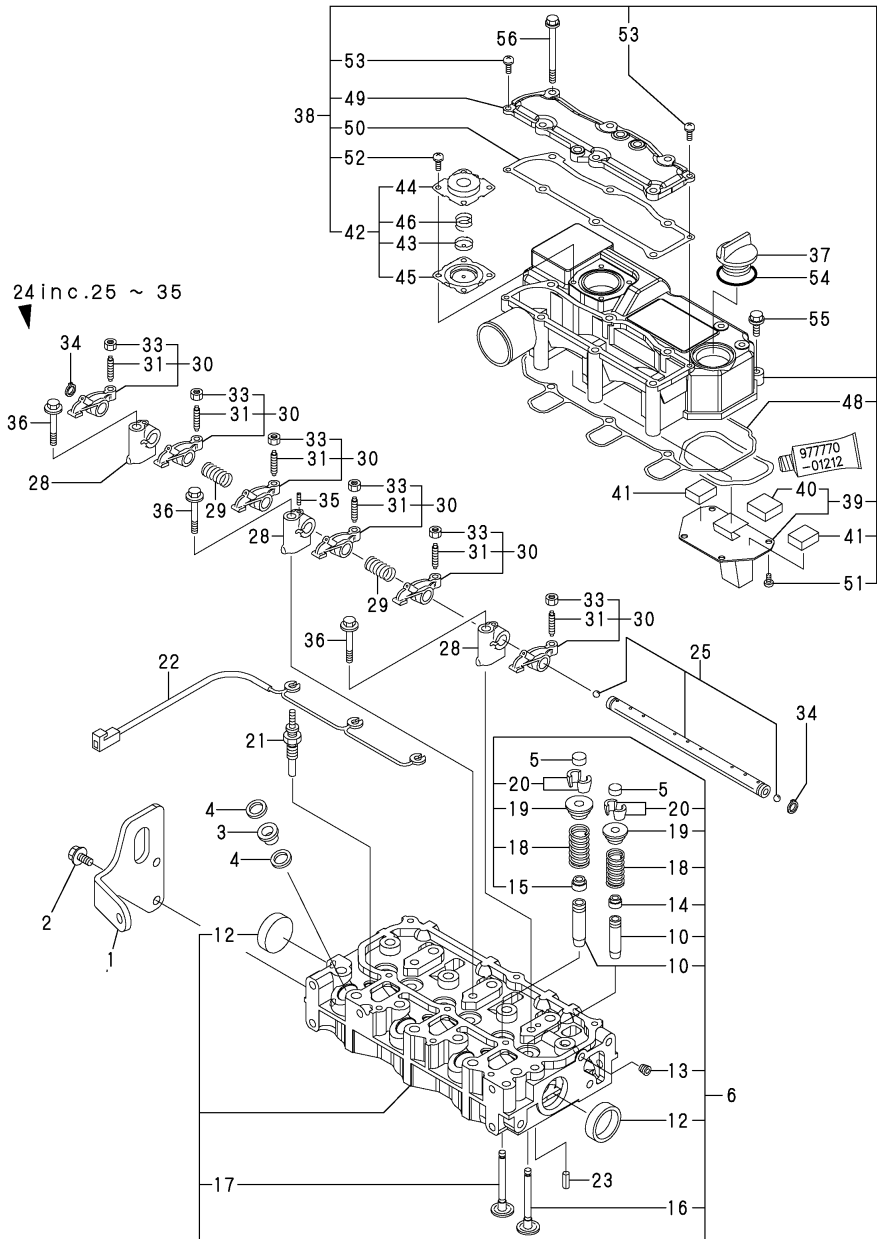


				0CB10-M72600 Fig.3								
				(A)=3TNV70-WBVB	(D)=							
				(B)=	(E)=							
				(C)=	(F)=							
No.	Lev.	Parts No.	Description	Q'ty							I	R
				(A)	(B)	(C)	(D)	(E)	(F)			
1	1	129100-01580	PIN, PARALLEL 8X16	2								
2	1	119515-01601	HOUSING, FLYWHEEL	1								
3	1	119620-01750	CAP	1								
4	1	26106-060452	BOLT, M6X 45 PLATED	17								
5	1	26206-100252	BOLT, M10X 25 PLATED	7								
6	1	121120-01620	BOLT, M10X28	3								
7	1	119515-01720	SPACER, OIL-PAN	1								
8	1	26106-060122	BOLT, M6X 12 PLATED	1								
9	1	26106-060252	BOLT, M6X 25 PLATED	1								
10	1	124085-02220	SEAL, OIL	1								
11	1	119540-01790	SUMP ASSY, OIL	1								
13	2	119540-39920	HOSE ASSY, OIL DRAIN	1								
14	3	119656-39930	PLUG, DRAIN M14	1								
15	3	119540-39940	HOSE, DRAIN	1								
16	3	23001-022000	CLAMP, HOSE 22	1								
17	2	23001-022000	CLAMP, HOSE 22	1								

Fig.4. CYLINDER HEAD & BONNET

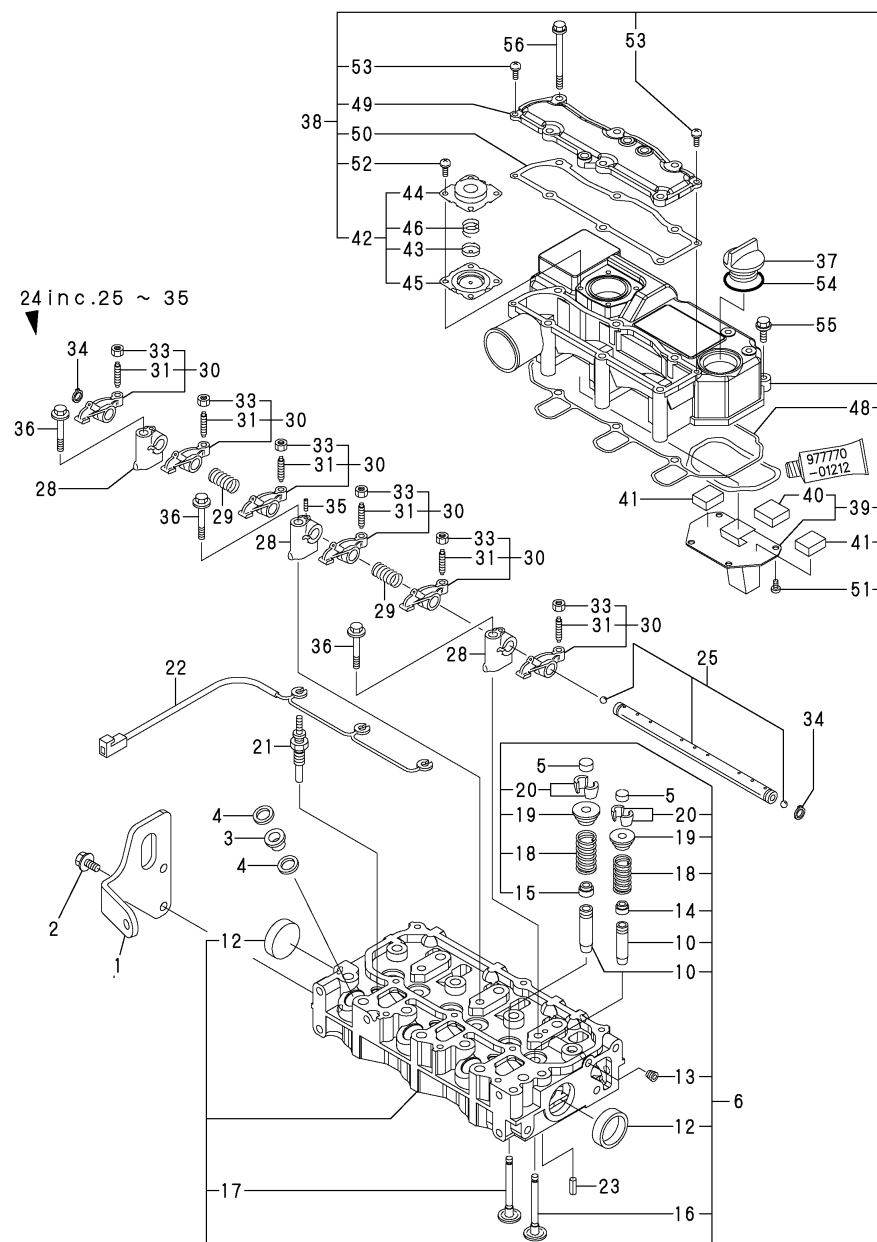
(A)=3TNV70-WBVB
(B)=
(C)=

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



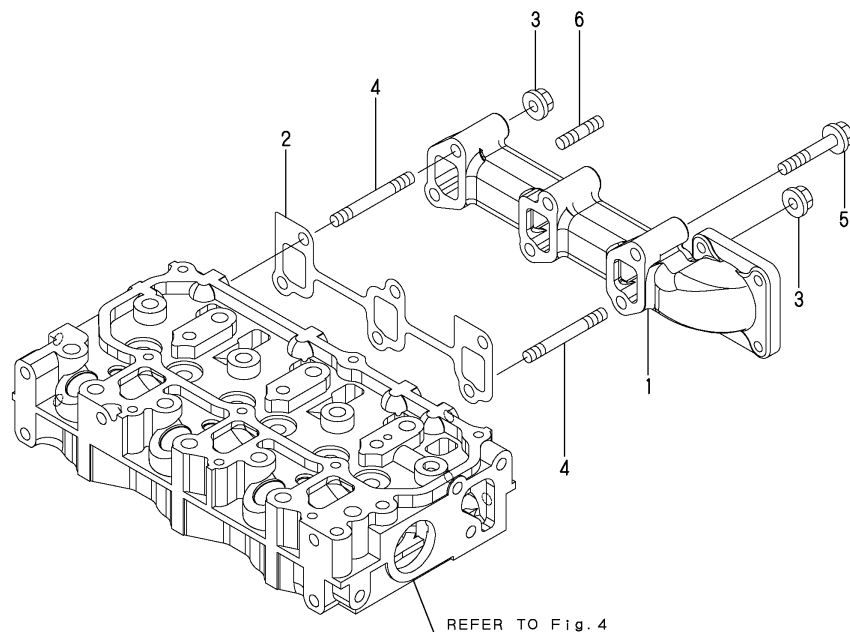
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119540-55910	STAY ASSY	1							
2	1	26106-080162	BOLT, M8X 16 PLATED	2							
3	1	129901-11450	PROTECTOR, NOZZLE	3							
4	1	119600-11460	GASKET, NOZZLE	6							
5	1	105010-11490	CAP, VALVE	6							
6	1	119515-11740	HEAD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

Remarks
(1)Spare parts.

[illegible]

Remarks
(1) Spare 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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No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119540-13100	MANIFOLD, EXHAUST	1							
2	1	119717-13110	GASKET, EXH.MANIFOLD	1							
3	1	26306-080002	NUT, M8	2							
4	1	119717-13600	BOLT, STUD M8X50	2							
5	1	119802-13620	BOLT, M8X50	4							
6	1	119131-18320	BOLT, STUD M8X22	4							

Fig.6. CAMSHAFT & DRIVING GEAR

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

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

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

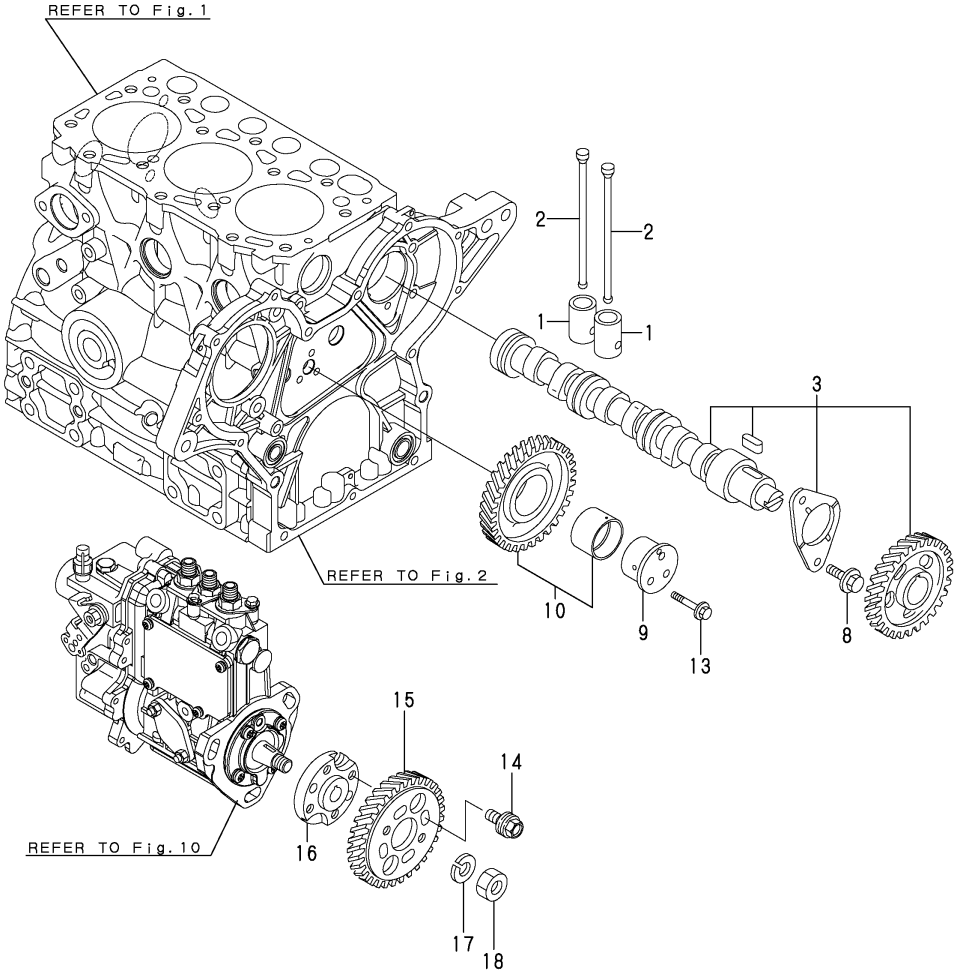
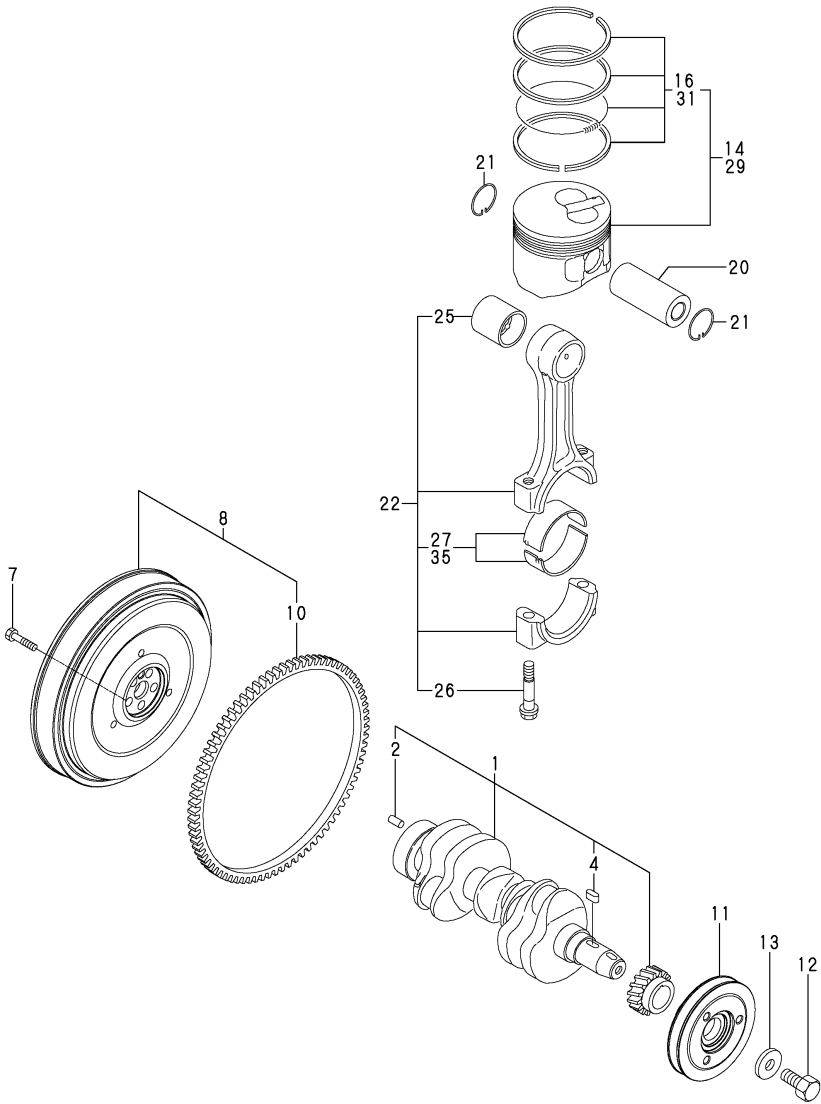


Fig.7. CRANKSHAFT & PISTON

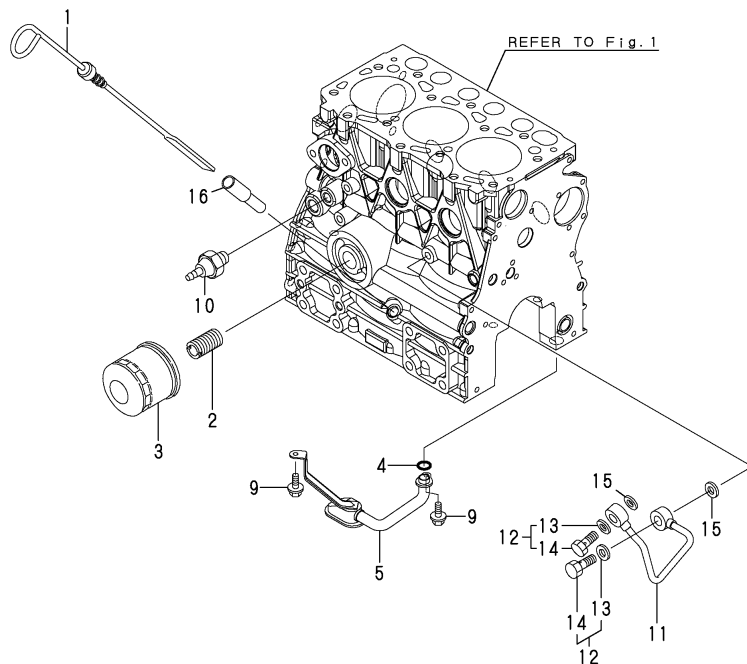
(A)=3TNV70-WBVB
(B)=
(C)=

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



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

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

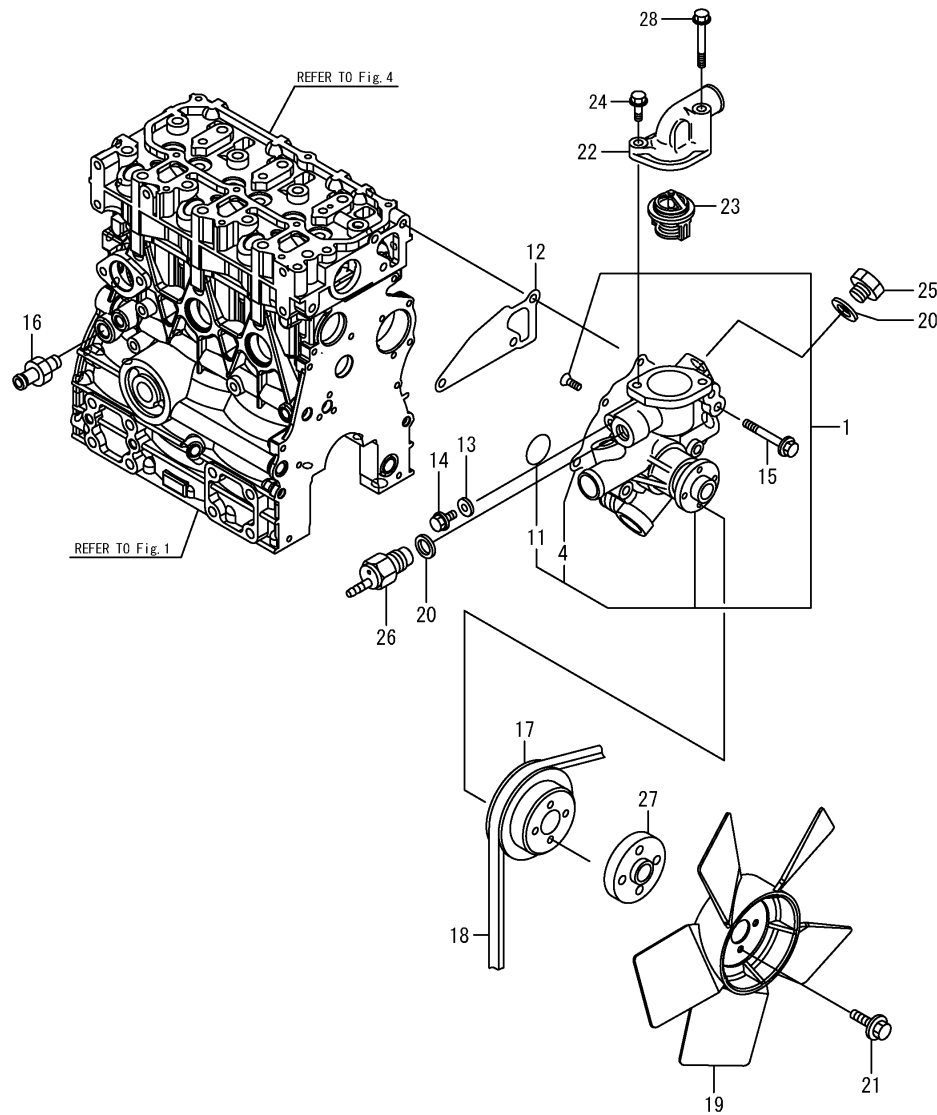


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119515-34801	DIPSTICK, OIL	1							
2	1	129100-35140	STUD	1							
2-1	1	119717-35140	STUD	1							N
2-2	(A=E60927) 1	119417-35140	STUD, LO FILTER	1							N
	(A=EG7991)										
3	1	119305-35170	FILTER ASSY, D68XL65	1			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

Remarks
(1) Spare parts.

N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.9. COOLING WATER SYSTEM

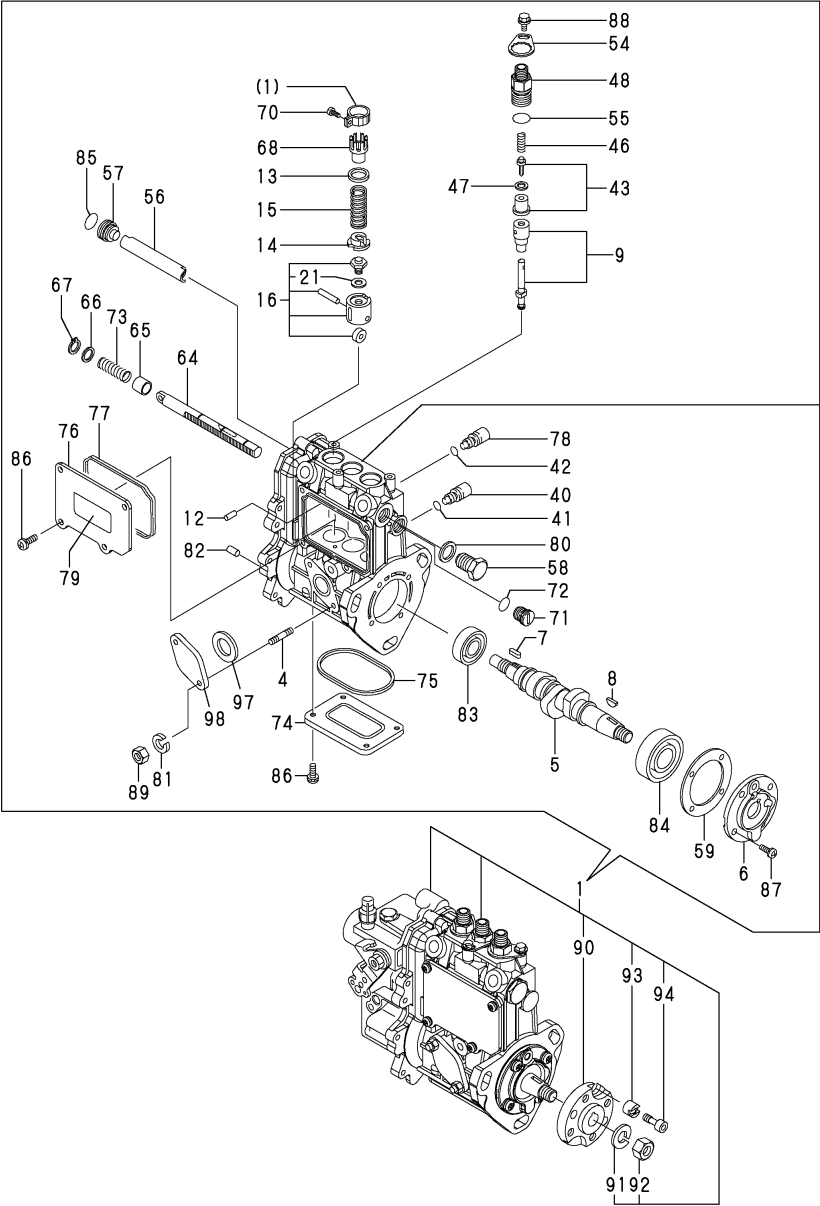


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119515-42001	PUMP ASSY, WATER	1							
1-1	1	119515-42002	PUMP ASSY, WATER	1							N
		(A=E/ 85974)									
1-2	1	119515-42003	PUMP ASSY, CW	1							N
		(A=*2019.01)									
4	2	119717-42031	GASKET, WATER PUMP	1							
11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

Fig.10. FUEL INJECTION PUMP

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

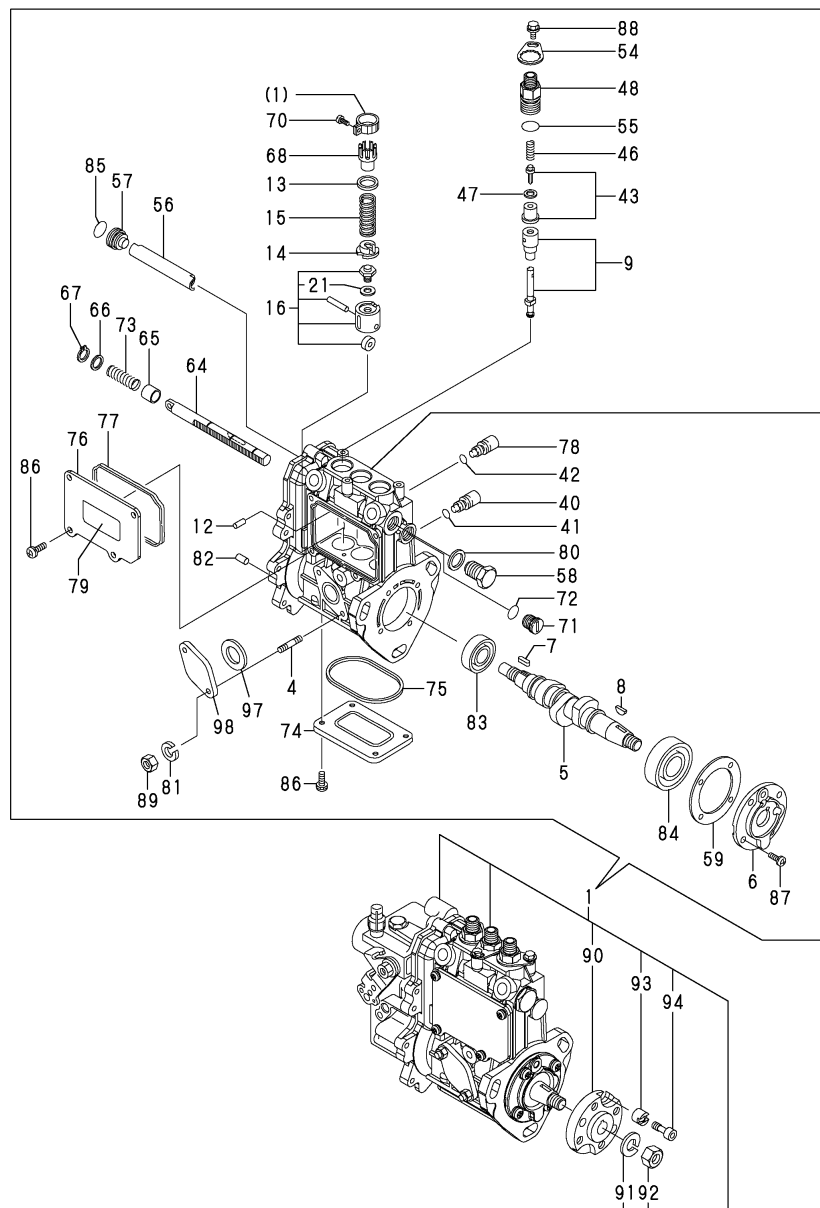
(D)=
(E)=
(F)=



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

Remarks

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



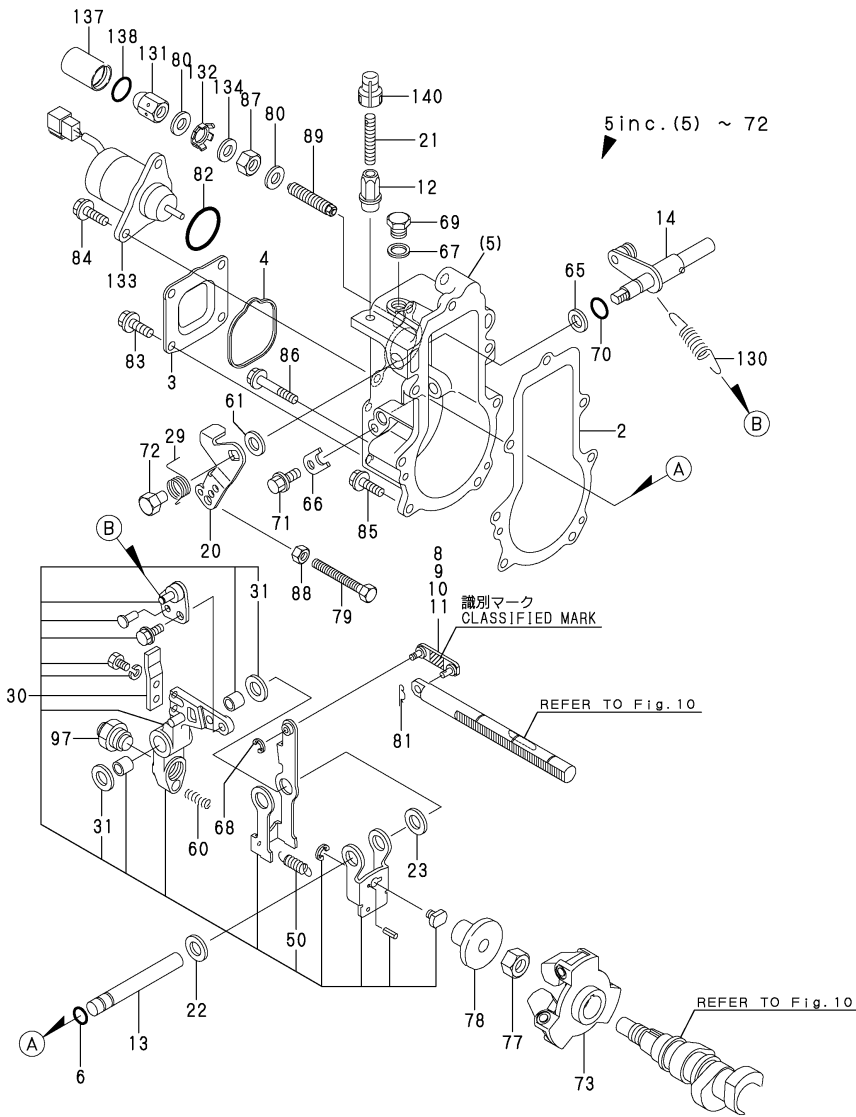
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
90	2	119717-51150	FLANGE	1							
91	2	22217-120000	WASHER, SPRING 12	1							
92	2	26716-120002	NUT, M12	1							
93	2	119717-51480	COLLAR	1							
94	2	119717-51490	BOLT	1							
97	2	129155-52051	GASKET	1							
98	2	129100-52200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

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

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

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



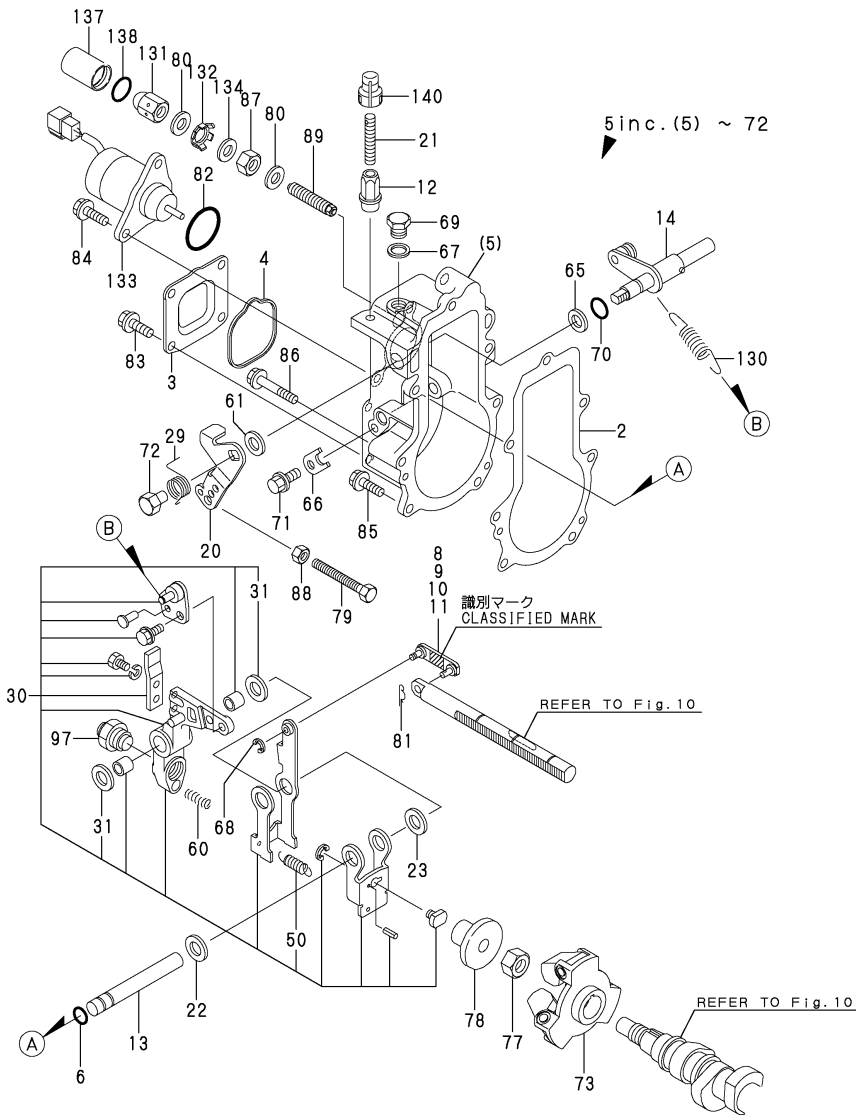
Remarks
(1) Selective parts : Certain the classification mark, then place your order.
(2) Spare parts.
* This figure (Governor) is incorporated in the Fuel Injection Pump (Fig. 10).

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

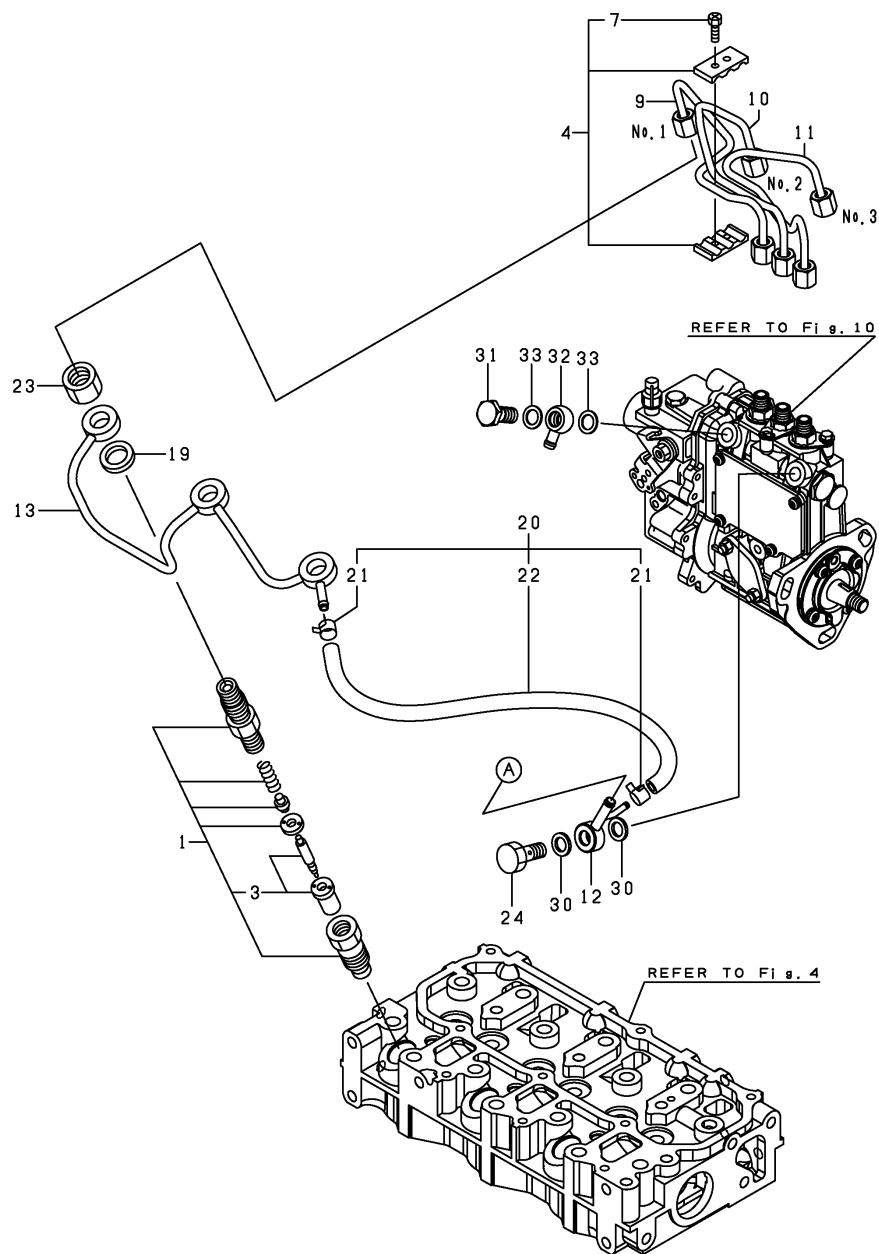
(A)=3TNV70-WBVB
(B)=
(C)=

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

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



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

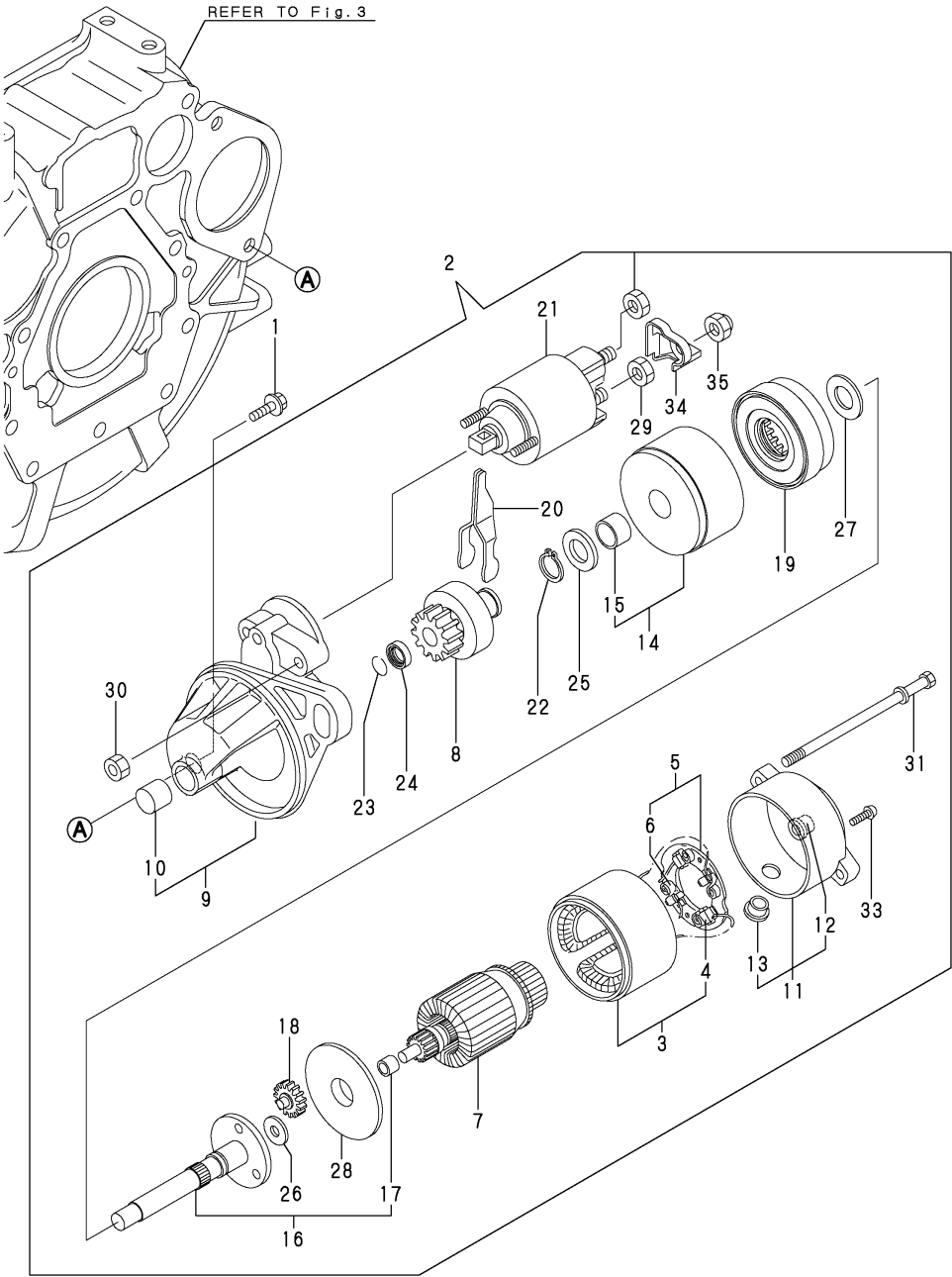


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119517-53001	VALVE ASSY,INJECTION	3							
3	2	119517-53010	VALVE ASSY,INJECTION	3							
4	1	129150-59120	RETAINER, PIPE	1							
7	2	129150-59131	BOLT, M4X14	2							
9	1	119546-59810	PIPE, INJECTION NO.1	1							
10	1	119546-59820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

Fig.13. STARTER MOTOR

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

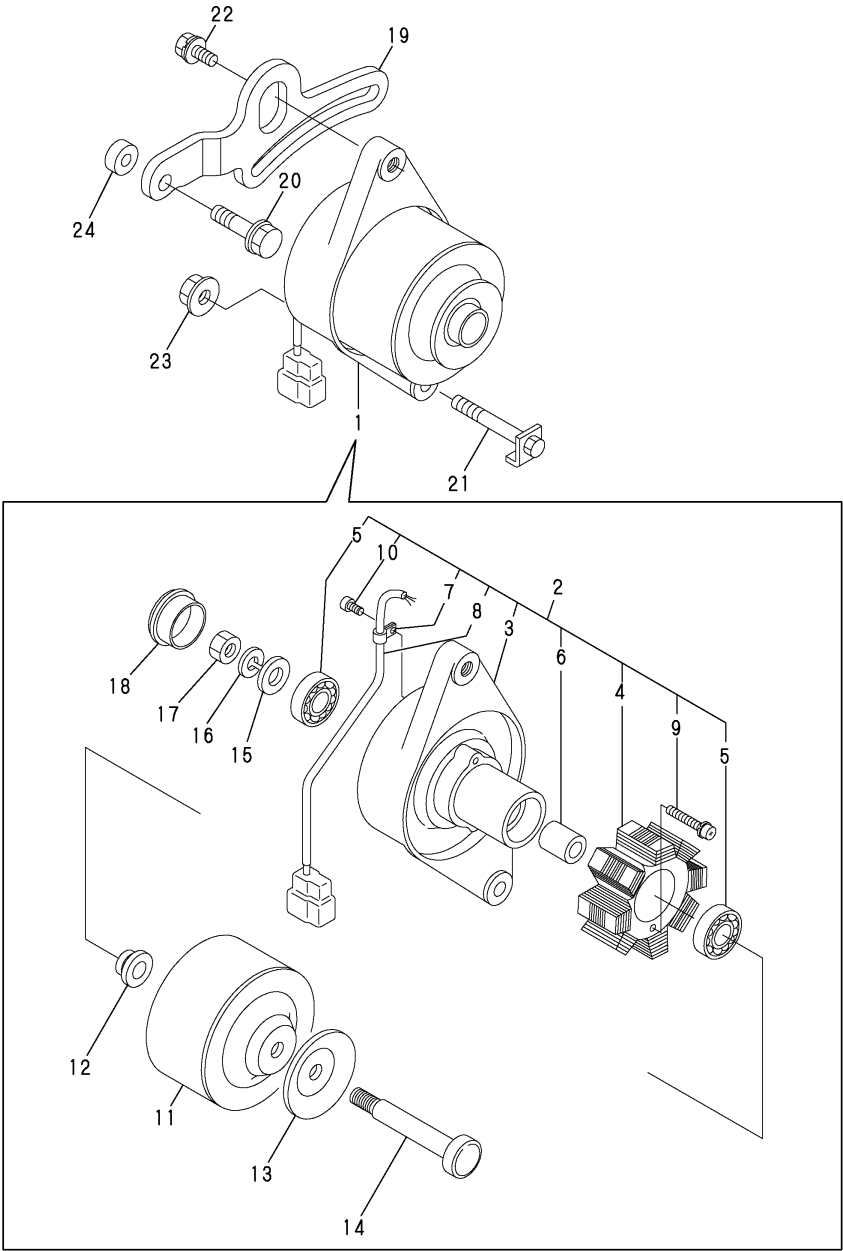
(D)=
(E)=
(F)=



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

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

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

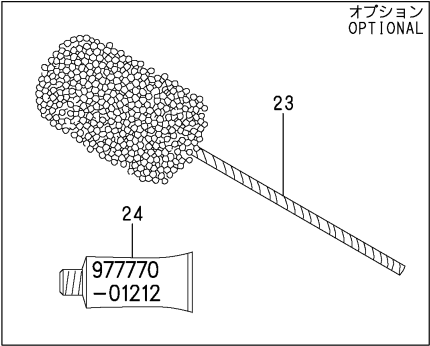
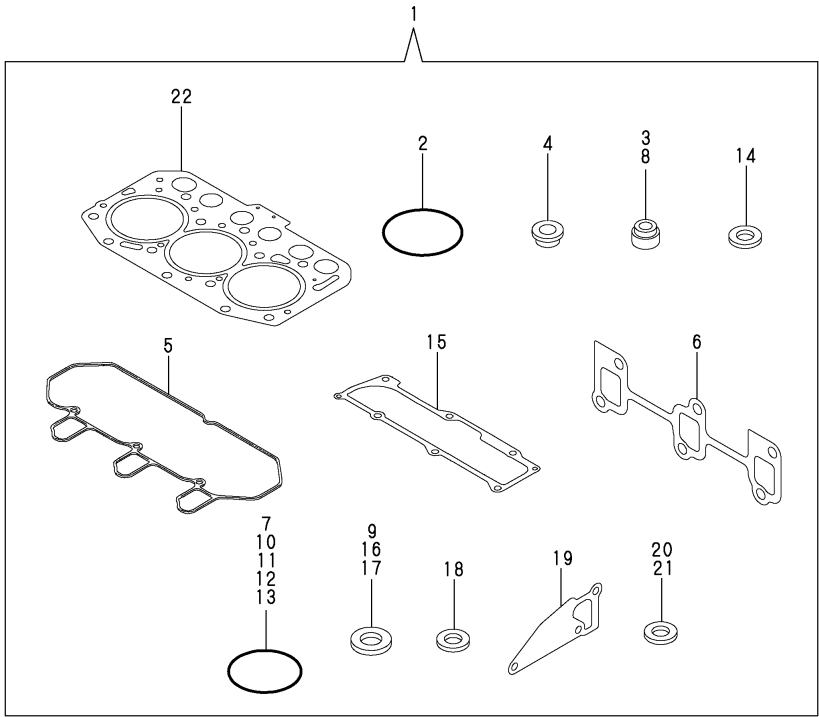


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119663-77200	DYNAMO	1							
2	2	X2A09922KA	PLATE ASSY	1							
3	3	X2A07071KA	PLATE, COIL	1							
4	3	X4A07023KC	STATOR ASSY	1							
5	3	24104-062010	BEARING, 6201UUC3	2							
6	3	XM329830000	COLLAR	1							
7	3	XM069000000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

Fig.15. GASKET SET & TOOL

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

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



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

Remarks
(1)Optional parts.

Parts No. Index

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

Parts No.	Fig. No.	Ref. No.
119515-42020	9	12
	15	19
119515-51100	10	9
119515-59540	12	13
119515-59570	12	20
119515-61440	11	20
119517-53001	12	1
119517-53010	12	3
119540-01790	3	11
119540-13100	5	1
119540-21590	7	8
119540-39920	3	13
119540-39940	3	15
119540-44700	9	19
119540-55910	4	1
119540-59560	12	22 -1
119540-59570	12	20 -1
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