

YANMAR 굴삭기

ViO20-3

PARTS CATALOG



0CS10-M46401EN

Precautions

1. Some of the illustrations in this parts catalog are simplified.
2. Depending on the specifications of your product, the actual product and parts catalog may not match.
3. Please use genuine parts when repairing the product.
4. When ordering spare parts, please confirm the specifications (model name, serial number, part number, quantity, etc.) and confirm with your distributors or dealers.
5. Please refer to the user manual or service manual for information on how to replace parts, technical information, and other related details.
6. If you are using a booklet or PDF parts catalog, you must verify the latest information via the online parts catalog.

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- 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.

P R E F A C E

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

2. Parts catalog history

		Parts catalog NO.	Published	Remarks
1st edition	Vehicle	OCS10-G46400	Apr. , 2005	Disuse old edition
	Engine	OCB10-G71400		
2nd revised	Vehicle	OCS10-G46401	Nov. , 2010	
	Engine	OCB10-G71401		

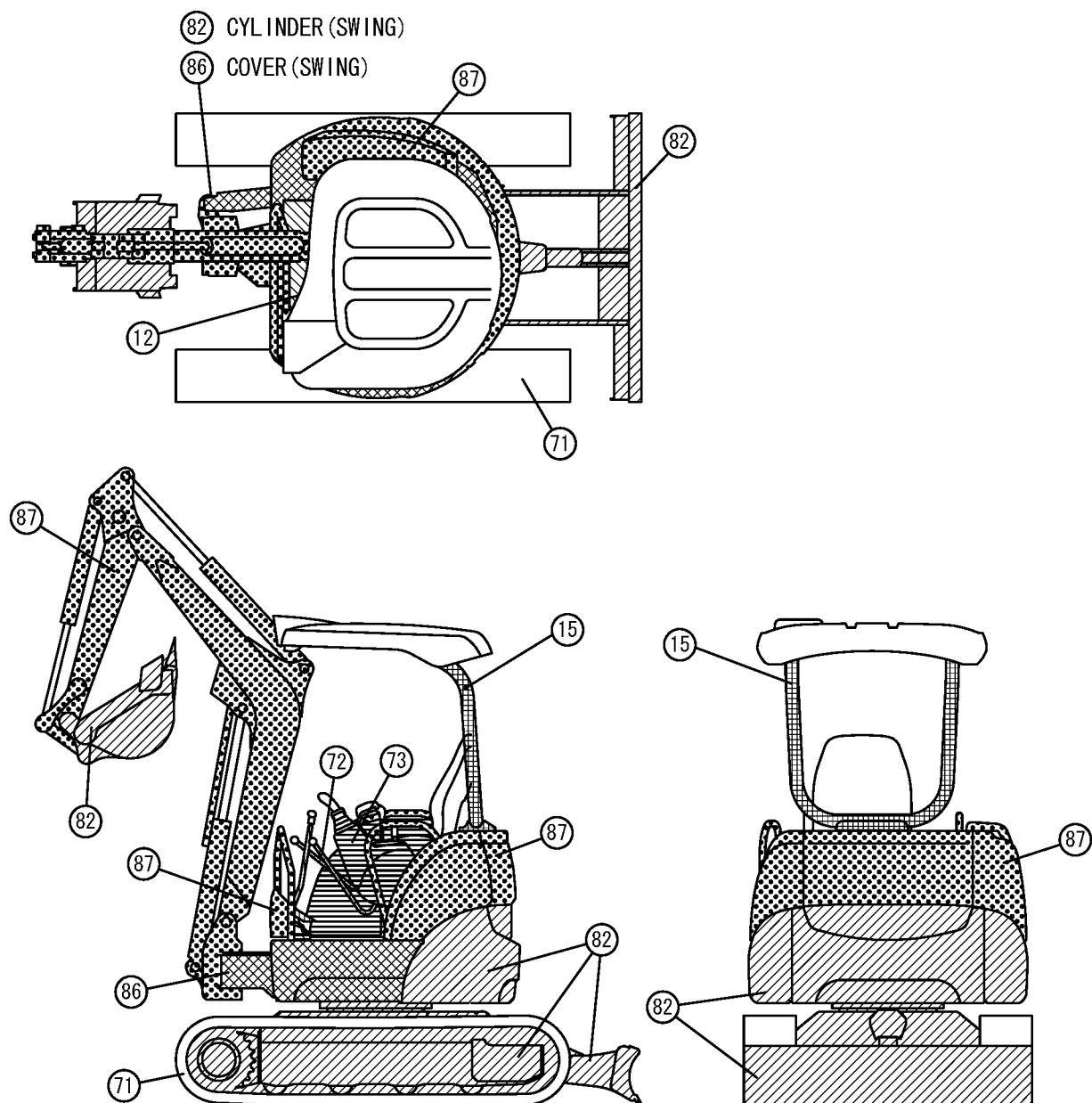
3. Model name

SECTION	Column	Model name	M/#	Manufactured
I (Vehicle)	(A)	Vio20-3	31331 ~	2004/12 ~
II (Engine)	(A)	3TNV76-PBV	07139 ~	2004/11 ~

4. 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.

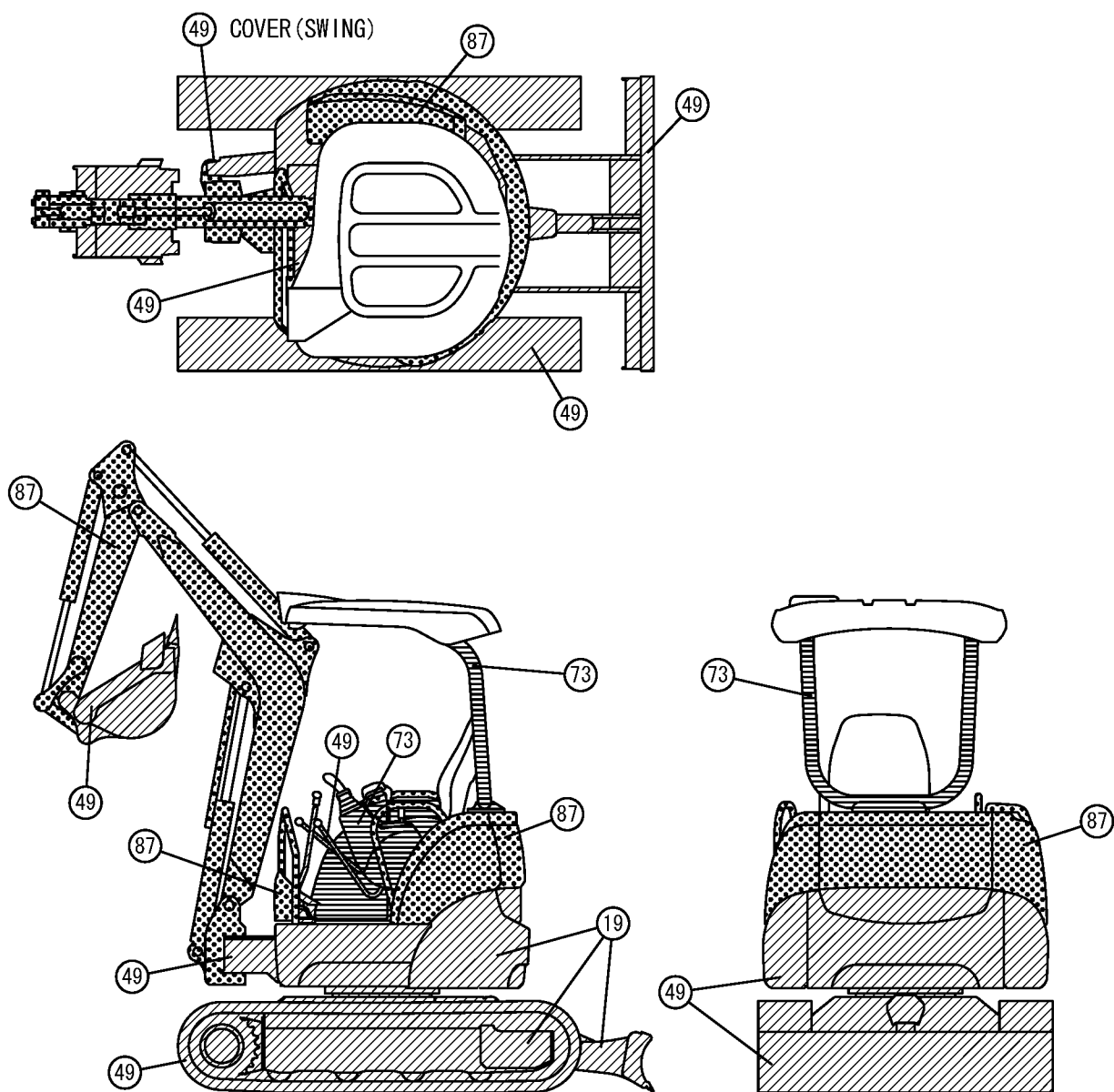
Be sure to use Yanmar Genuine Parts in your maintenance servicing of Yanmar products. Be careful not to use the simple parts available in the market, otherwise their use in repairing causes such as an early breakage, for instance.

VEHICLE PAINTED COLOR (TO M32642)



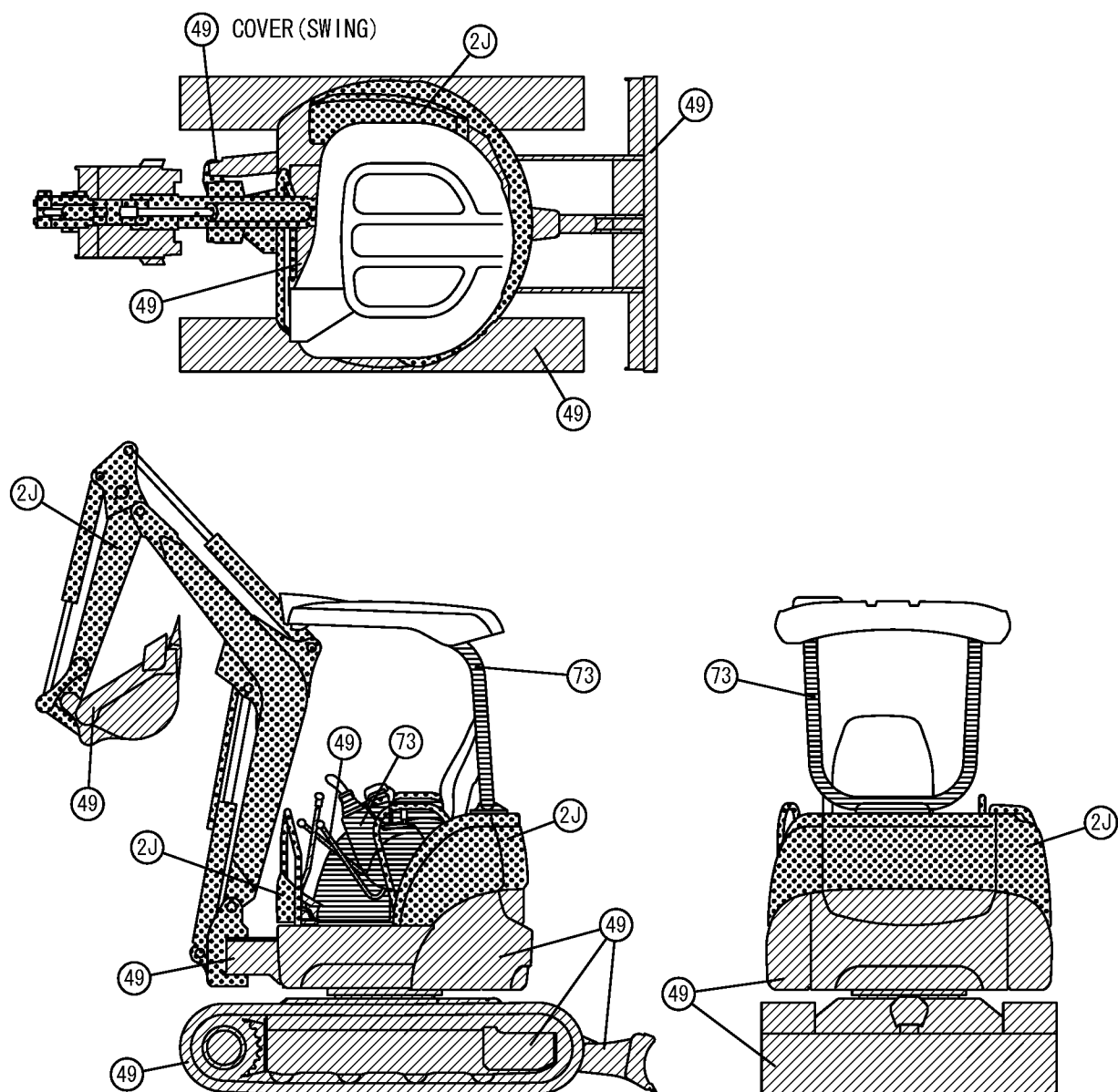
Color Code	Description	Painted Color	Paint Part No.		
			16L Can	4L Can	SPRAY
82		YANMAR Deep Green	981101-09517	977620-40820	977620-30N31
87		YANMAR New Permanent Yellow	981101-09519	977620-40870	977620-30871
86		YANMAR New Grayish Green	981101-09616	977620-40860	977620-30861
72		YANMAR Dark Olive Gray	-----	977620-40720	TOR-94800720
73		YANMAR Warm Gray	-----	-----	TOR-94800730
12		YANMAR Black	-----	TOR-91220001	TOR-94800120
71		YANMAR Charcoal Gray	981101-09516	977620-40710	977620-30371
15		Natural White	-----	-----	977620-30301

VEHICLE PAINTED COLOR (FROM M32643 TO M34344)



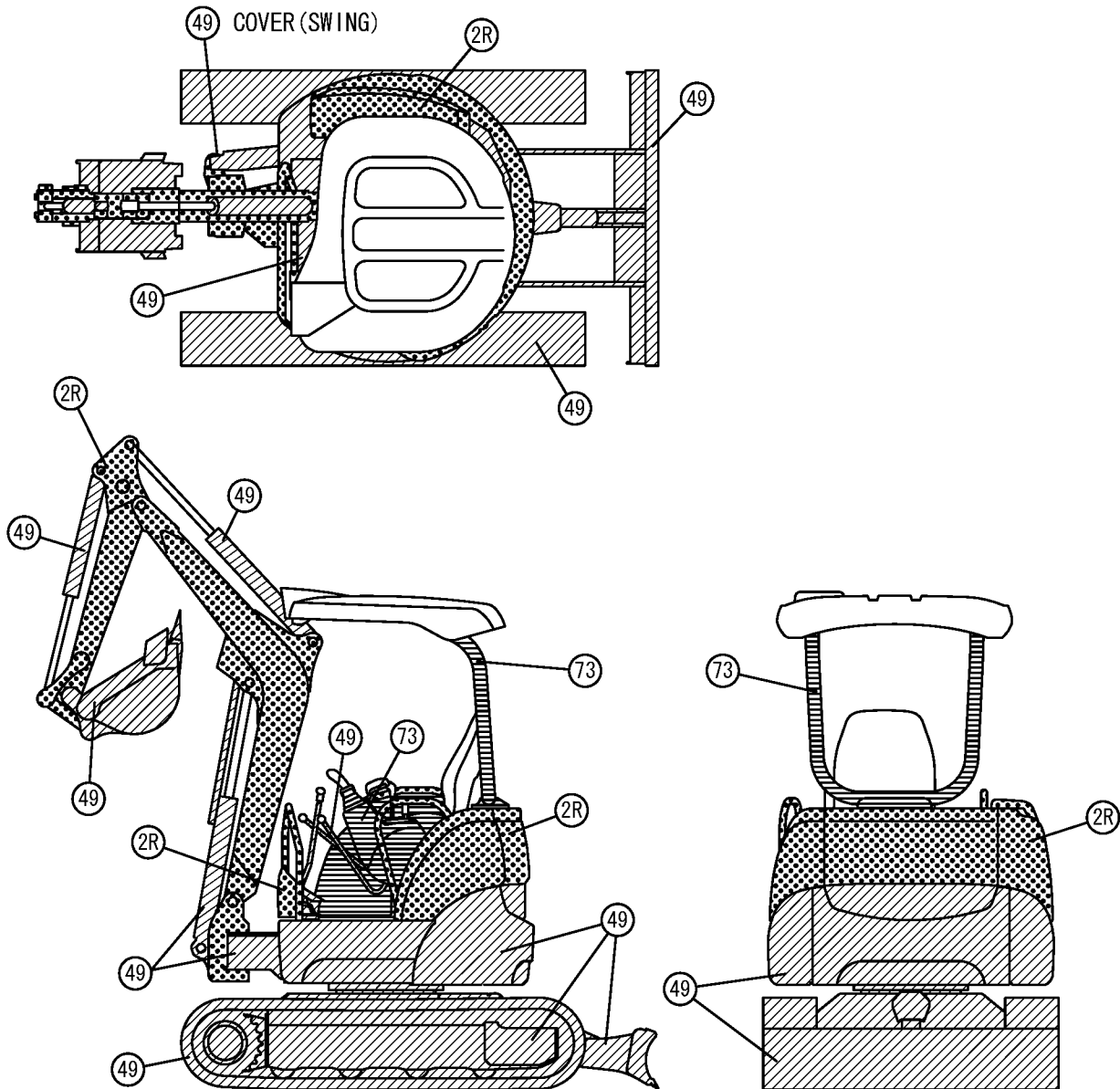
Color Code	Description	Painted Color	Paint Part No.		
			16L Can	4L Can	SPRAY
49		YANMAR Navy Gray	-----	TOR-91390000	TOR-94800490
87		YANMAR New Permanent Yellow	981101-09519	977620-40870	977620-30871
73		YANMAR Warm Gray	-----	-----	TOR-94800730

VEHICLE PAINTED COLOR (FROM M34345 TO M45500)



Color Code	Description	Painted Color	Paint Part No.		
			16L Can	4L Can	SPRAY
49		YANMAR Navy Gray	-----	TOR-91390000	TOR-94800490
2J		YANMAR New Permanent Yellow 2	981101-09520	977620-40871	977620-30872
73		YANMAR Warm Gray	-----	-----	TOR-94800730

VEHICLE PAINTED COLOR (FROM M45501)



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

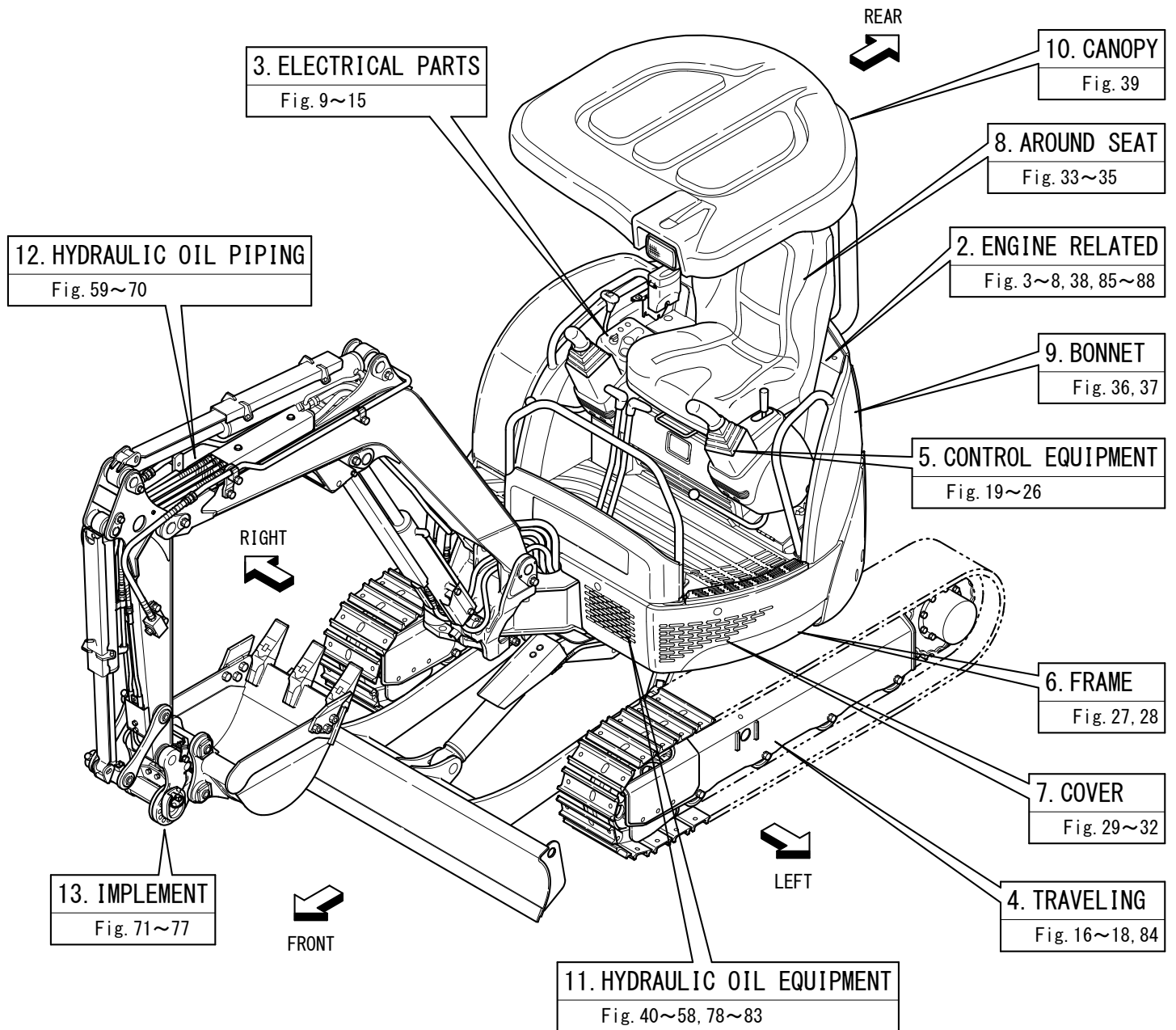
PICTURESQUE INDEX (1) ■ ■ ■ MAIN PARTS

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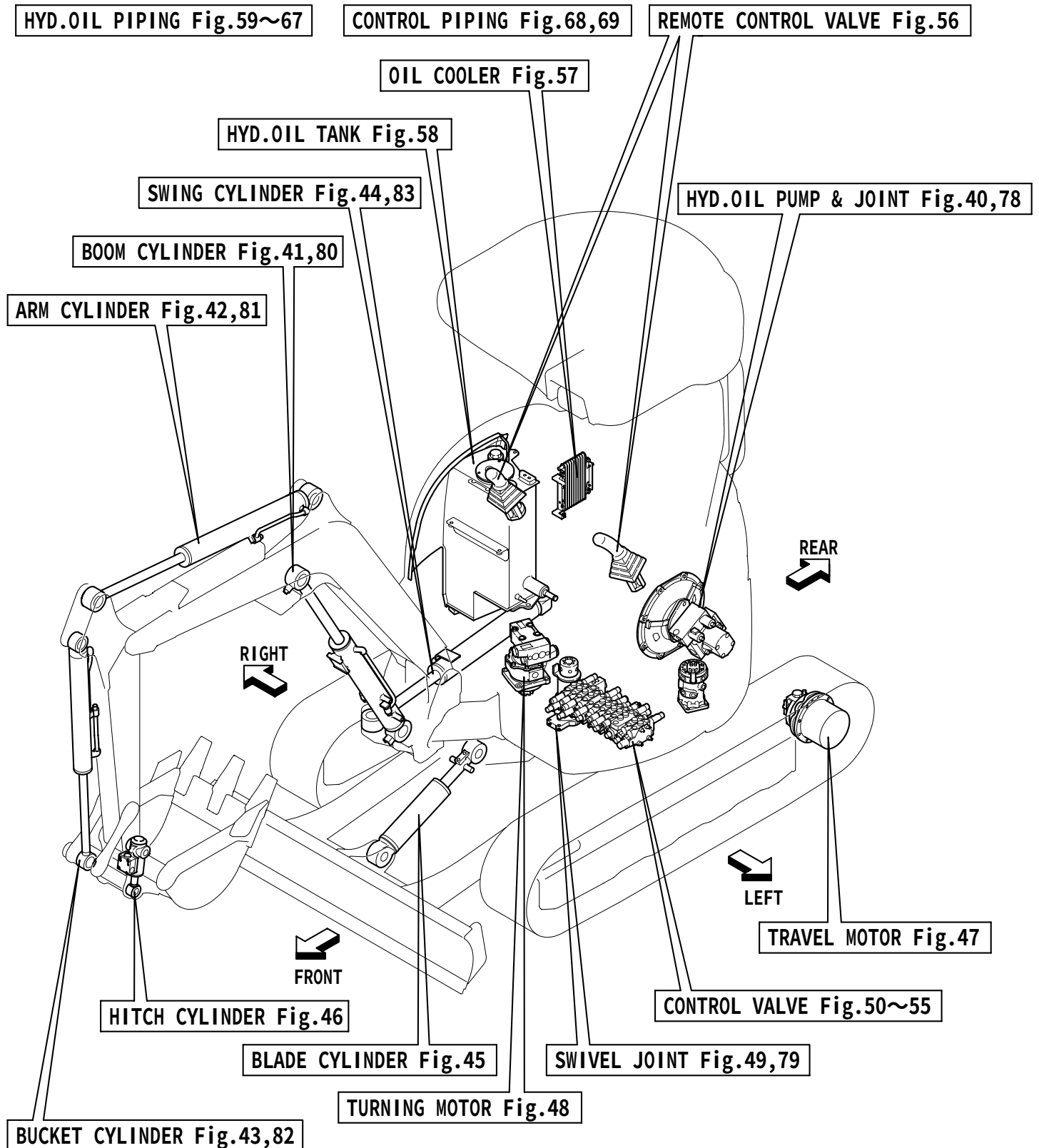
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OCS10-M46401

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Fig. No. Fig. Name

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Fig. No.	Fig. Name
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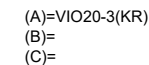
IMPLEMENT

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OPTIONAL & KIT

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90.	SEAT KIT(OPTIONAL)
91.	SEAT KIT(OPTIONAL)

Fig.1. LABEL



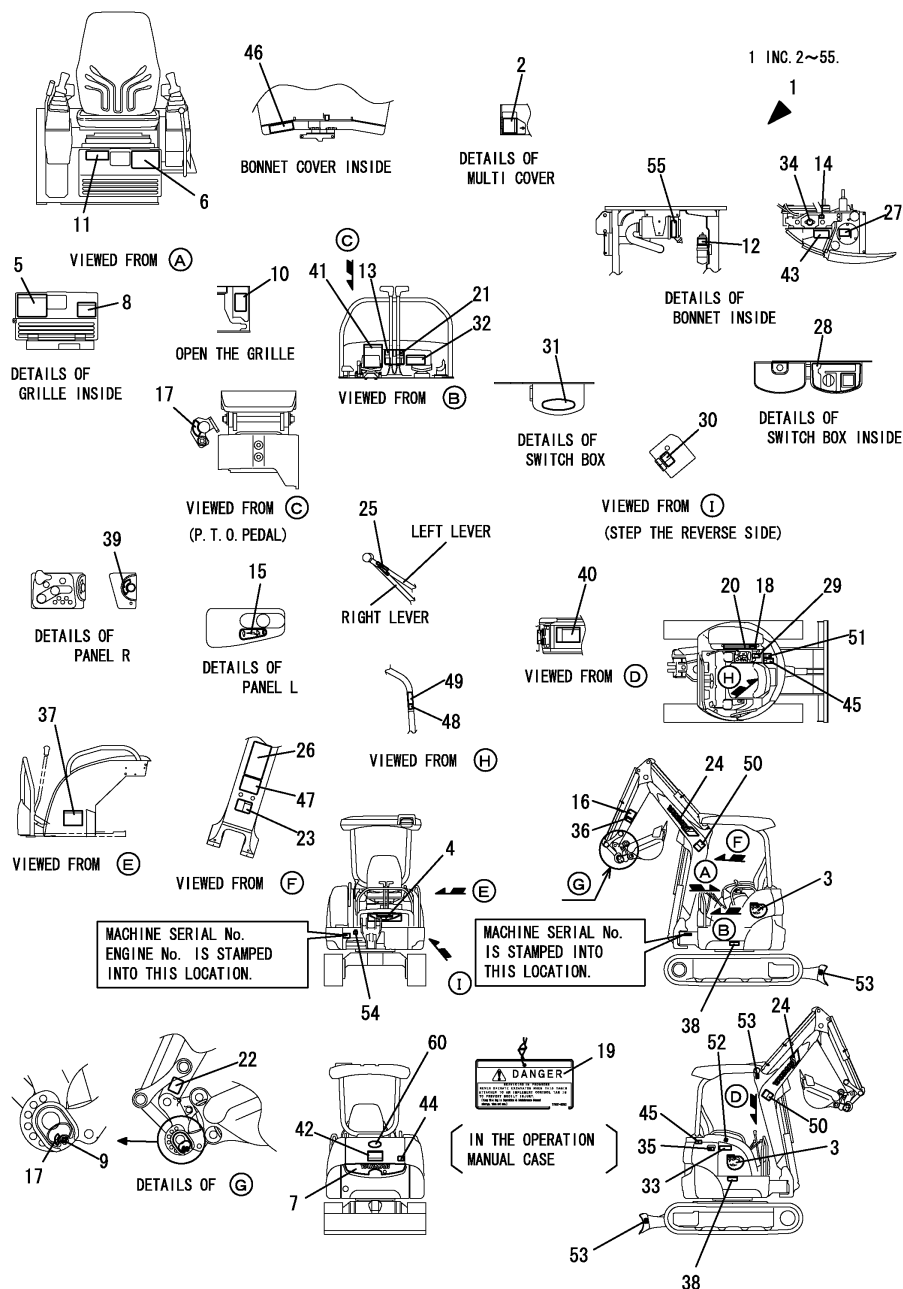
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	772A36-03300	LABEL SET VIO20-3(KR	1							
1-1	1	172A23-03450 (A=M45001)	LABEL SET VIO20-3(KR	1							S
1-2	1	172A23-03451 (A=M45501)	SET,LABEL VIO20-3KR	1							S
2	2	172437-03242	LABEL, CRAWLER	1							1
3	2	172469-03121	LABEL, MODEL	2							
3-1	2	172A23-03120 (A=M45501)	LABEL,MODEL	2							N
4	2	172458-03140	LABEL, FRONT	1							
4-1	2	172A64-03120 (A=M45501)	LABEL, VIO17 FRONT	1							N
5	2	172469-03140	LABEL,OIL&WATER	1							
6	2	172472-03141	LABEL, SUPPORT	1							
7	2	172458-03160	LABEL, REAR	1							
8	2	172472-03160	LABEL,GREASE	1							
9	2	172958-03160	LABEL	1							
10	2	172472-03171	LABEL,FUSE US	1							
11	2	172A36-03201	LABEL, SPECIFICATION	1							
11-1	2	172A36-03202 (A=M45001)	LABEL,SPEC KR	1							S
12	2	172A38-03200	LABEL, SUB-TANK US	1							
12-1	2	172A38-03201 (A=M33146)	LABEL, SUB TANK	1							N
13	2	172490-03200	LABEL, OPERATION	1							
14	2	172A38-03210	LABEL,ANTI-FREEZING	1							
14-1	2	172A38-03211 (A=M33146)	LABEL, ANTI-FREEZING	1							N
15	2	172458-03220	LABEL, ACCELERATOR	1							
16	2	172472-03230	LABEL, OPERATION	1							
17	2	172458-03240	LABEL, LOCK	2							
18	2	172472-03241	LABEL, PINUS	1							
19	2	172437-03250	TAG ASSY, CAUTION	1							
19-1	2	172437-03252 (A=M33146)	TAG ASSY, CAUTION	1							N
20	2	172472-03250	LABEL, OPERATION	1							
21	2	172496-03250	LABEL, PTO	1							
22	2	172472-03261	LABEL, FINGER	1							
23	2	172472-03271	LABEL, SANDUS	1							
24	2	172524-03271	LABEL, REAR	2							
24-1	2	172A55-03310 (A=M33141)	LABEL, BRAND 450	2							N
24-2	2	172A86-03310 (A=M45501)	LABEL,YANMAR	2							N
25	2	172183-03280	LABEL, LOCK	2							
26	2	172472-03281	LABEL, WARNING HITCH	1							
27	2	172463-03290	LABEL, HYD.OIL	1							
28	2	172472-03290 (A=M/#35241)	LABEL, SWITCH	1							Z
29	2	172437-03301	LABEL, MANUAL US	1							
29-1	2	172437-03302	LABEL, MANUAL	1							N

N:Old $\xrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
 ++ CONTINUE ++
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Remarks
(1)Rubber crawler specification.

Fig.1. LABEL



(D)=

(D)=
(E)=

$$(F) =$$

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
(A=M33146)											
30	2	172438-03300	LABEL, PTO SELECT	1							
31	2	172472-03300	LABEL, COVER	1							Z
(A=M/#35241)											
32	2	172437-03311	LABEL, SLOPE US	1							
32-1	2	172437-03312	LABEL, SLOPE	1							N
(A=M33146)											
33	2	172437-03322	LABEL, RESEVOIR	1							
34	2	172462-03320	LABEL, RADIATOR	1							
35	2	172463-03330	LABEL,COVER	1							
36	2	172472-03330	LABEL, LOCK PIN	1							
37	2	172437-03342	LABEL, TRANSPORT US	1							
37-1	2	172437-03343	LABEL, TRANSPORT	1							N
(A=M33146)											
38	2	172437-03352	LABEL, CYLINDER	2							
39	2	172141-03360	LABEL, START SWITCH	1							
39-1	2	172A64-03700	LABEL, START SWITCH	1							N
(A=M34222)											
40	2	172437-03361	LABEL, BATTERY	1							
41	2	172437-03372	LABEL, NEUTRAL	1							
42	2	172437-03381	LABEL, SWING AREA	1							
42-1	2	172A64-03380	LABEL, SWING AREA US	1							N
(A=*2017.08.)											
43	2	172437-03391	LABEL, RADIATOR	1							
44	2	172437-03402	LABEL, ENGINE COVER	1							
45	2	172A36-03411	LABEL, ENGINE ROOM	2							
46	2	172437-03422	LABEL, MUFFLER	1							
47	2	172437-03432	LABEL, STEERING	1							
48	2	172499-03270	LABEL, TOPS	1							
49	2	172437-03451	LABEL, SEAT BELT	1							
50	2	172437-03461	LABEL, BOOM	2							
51	2	172437-03471	LABEL, LEVER LOCK	1							
52	2	172437-03501	LABEL, FUEL	1							
53	2	172437-03511	LABEL, HOOK	3							
54	2	172157-03741	LABEL, GREASE US	1							
54-1	1	172A23-03140	LABEL, GREASE	1							N
(A=M36244)											
55	2	172125-03951	LABEL, AIR CLEANER	1							
60	1	172A64-03050	EMBLEM ASSY	1							W
(A=M45501)											

Remarks

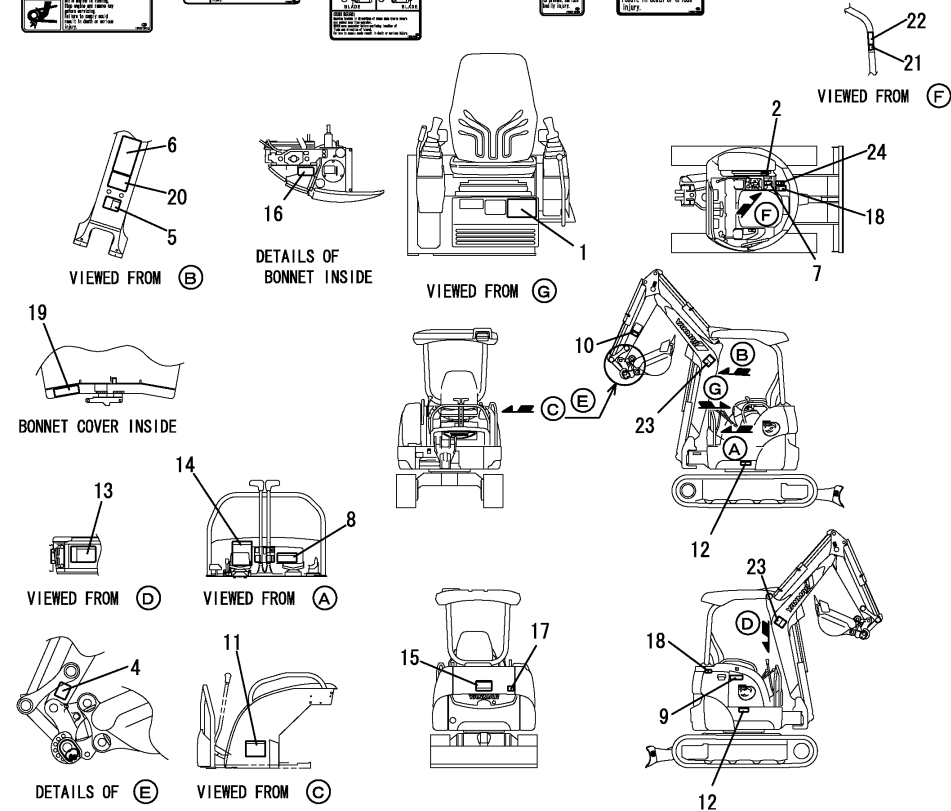
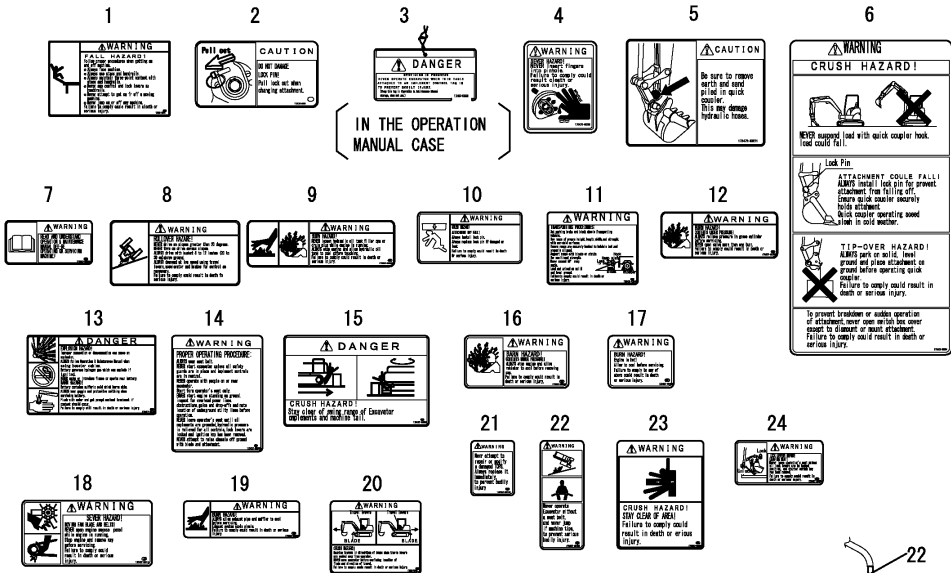
(1) Rubber crawler specification.

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

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

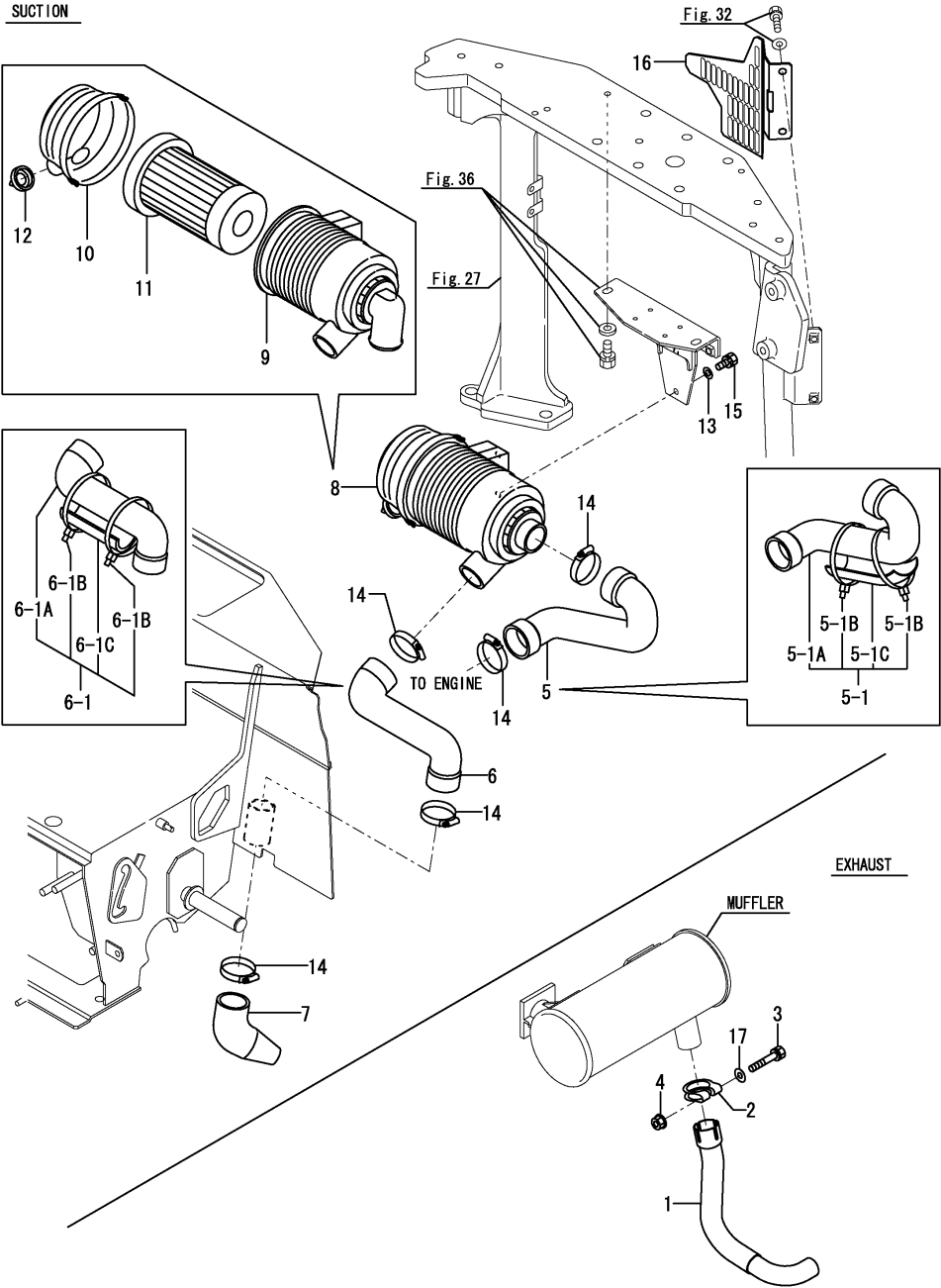
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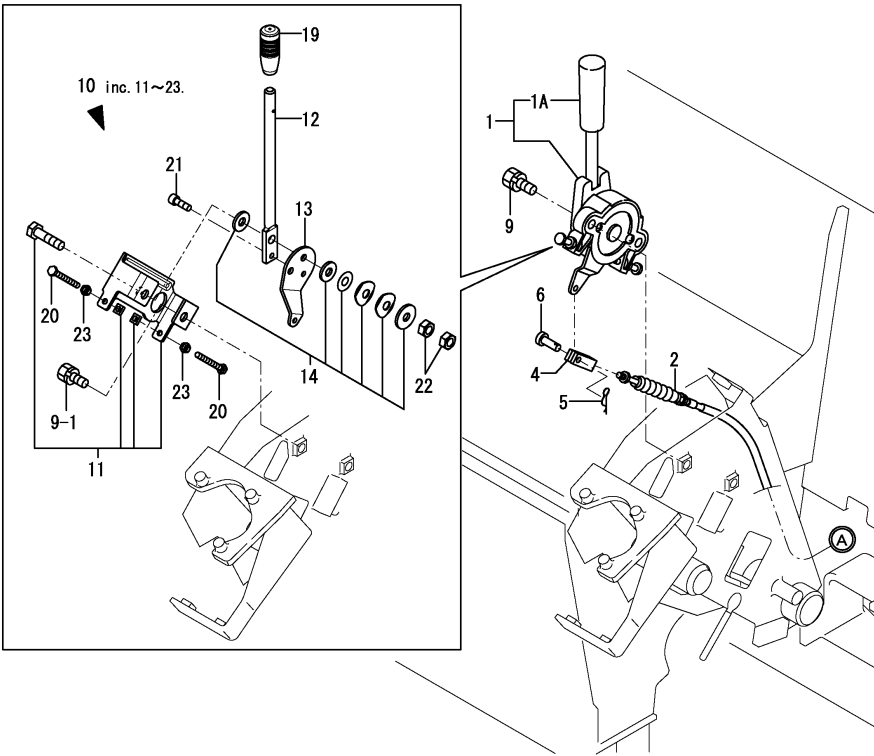
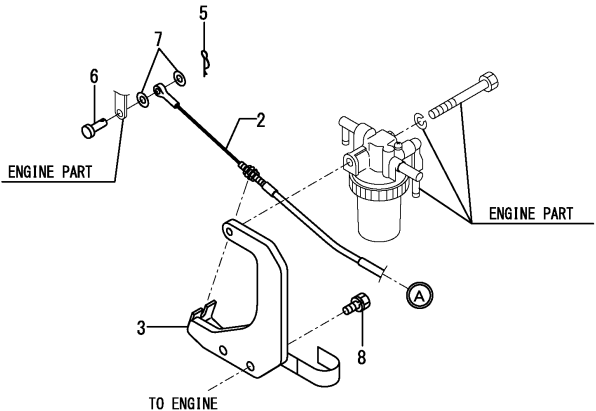
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172472-03141	LABEL, SUPPORT US	1							
2	1	172472-03241	LABEL, PIN US	1							
3	1	172437-03250	TAG ASSY, CAUTION	1							
3-1	1	172437-03252	TAG ASSY, CAUTION	1							N
(A=M33146)											
4	1	172472-03261	LABEL, FINGER US	1							
5	1	172472-03271	LABEL, SAND US	1							
6	1	172472-03281	LABEL, WARNING HITCH	1							
7	1	172437-03301	LABEL, MANUAL US	1							
7-1	1	172437-03302	LABEL, MANUAL US	1							N
(A=M33146)											
8	1	172437-03311	LABEL, SLOPE US	1							
8-1	1	172437-03312	LABEL, SLOPE US	1							N
(A=M33146)											
9	1	172437-03322	LABEL, HYD.OIL TANK	1							
10	1	172472-03330	LABEL, LOCK PIN(US	1							
11	1	172437-03342	LABEL, TRANSPORT US	1							
11-1	1	172437-03343	LABEL, TRANSPORT US	1							N
(A=M33146)											
12	1	172437-03352	LABEL, GREASE CYL.	2							
13	1	172437-03361	LABEL, BATTERY US	1							
14	1	172437-03372	LABEL, NEUTRAL US	1							
15	1	172437-03381	LABEL, SWING AREA US	1							
16	1	172437-03391	LABEL, RADIATOR US	1							
17	1	172437-03402	LABEL, ENG, COVER US	1							
18	1	172A36-03411	LABEL, ENG ROOM	2							
19	1	172437-03422	LABEL, MUFFLER US	1							
20	1	172437-03432	LABEL, STEERING US	1							
21	1	172499-03270	LABEL, TOPS US	1							
22	1	172437-03451	LABEL, SEAT BELT US	1							
23	1	172437-03461	LABEL, BOOM US	2							
24	1	172437-03471	LABEL, LEVER LOCK US	1							

Fig.3. SUCTION PIPE & EXHAUST PIPE

SUCTION



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172487-11350	PIPE ASSY, EXHAUST	1							
2	1	172487-11400	CLAMP	1							
3	1	26013-100552	BOLT, SPRING M10X 55	1							
3-1	1	26013-100602	BOLT, M10X 60	1							N
(A=*2016.12.)											
4	1	26366-100002	NUT, M10	1							
5	1	172A23-11490	HOSE A, AIR CLEANER	1							
5-1	1	172A23-11470	HOSE A ASSY,AIRCLEAN	1							N
(A=M33952)											
5-1A	2	172A23-11490	HOSE A, AIR CLEANER	1							
5-1B	2	172126-11510	BAND	2							
5-1C	2	172A23-11600	INSULATOR	1							
6	1	172A23-11500	HOSE B, AIR CLEANER	1							
6-1	1	172A23-11480	HOSE B ASSY,AIRCLEAN	1							N
(A=M33952)											
6-1A	2	172A23-11500	HOSE B, AIR CLEANER	1							
6-1B	2	172126-11510	BAND	2							
6-1C	2	172A23-11600	INSULATOR	1							
7	1	172456-11500	HOSE C,AIR CLEANER	1							
8	1	172456-11510	CLEANER ASSY, AIR	1							
9	2	172456-11590	BODY	1							
10	2	172456-11600	COVER ASSY	1							
11	2	129619-12520	ELEMENT, OUTER	1							
12	2	119808-12540	VALVE, UNLOAD	1							
13	1	22137-080000	WASHER, 8	2							
14	1	23000-060000	CLAMP, 60	5							
15	1	26013-080202	BOLT, SPRING M8X 20	2							
16	1	172487-65160	GUARD, MUFFLER	1							W
(A=M33952)											
17	1	22137-100000	WASHER, 10	1							W
(A=*2014.04)											



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

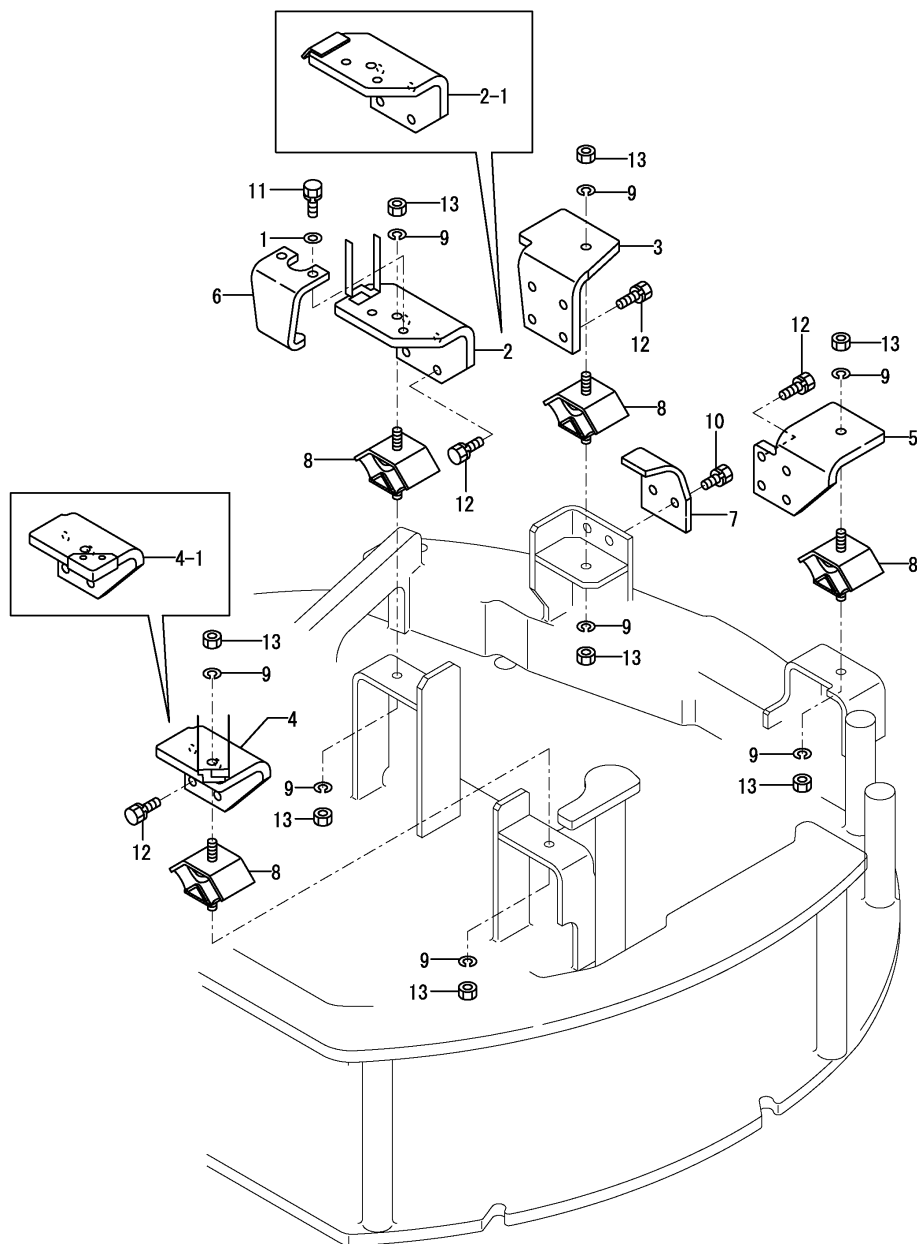
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172458-12100	LEVER, ACCELERATOR	1						Z	1
(A=M3F055)											
1A	2	172165-12140	GRIP	1							W
(A=M32289)											
1A-1	2	172A79-12150	GRIP	1							N
(A=MXXXXX)											
2	1	172469-12110	CABLE, ACCELERATOR	1							
2-1	1	172469-12111	CABLE, ACCELERATOR	1							N
(A=M32151)											
3	1	172487-12220	BRACKET	1							
4	1	172137-12270	JOINT, CABLE	1							
5	1	1C6281-52310	PIN, SNAP 6	2							
6	1	1A1040-56900	PIN, FLAT HEAD 6X17	2							
7	1	22137-060000	WASHER, 6	2							
8	1	26013-080162	BOLT, SPRING M8X 16	2							
9	1	26013-100252	BOLT, SPRING M10X 25	2							
9-1	1	26013-100202	BOLT, M10X 20	2							S
(A=M3F055)											
10	1	172458-12101	LEVER ASSY, ACCEL.	1							W
(A=M3F055)											
11	2	172458-12150	BRACKET ASSY, ACCEL.	1							
12	2	172458-12170	LEVER,ACCEL	1							
13	2	172458-12180	PLATE	1							
14	2	172458-12200	SPRING SET	1							
19	2	172498-12250	GRIP, ACCELERATOR	1							
20	2	26117-060554	BOLT M 6X 55	2							
21	2	26450-060102	BOLT, M6X 10	1							
22	2	26757-100002	NUT, LOCK M10	2							
23	2	26857-060002	NUT, M6	2							

Remarks

(1)Interchangeable by simultaneous replacement with No.9-1 & 10.

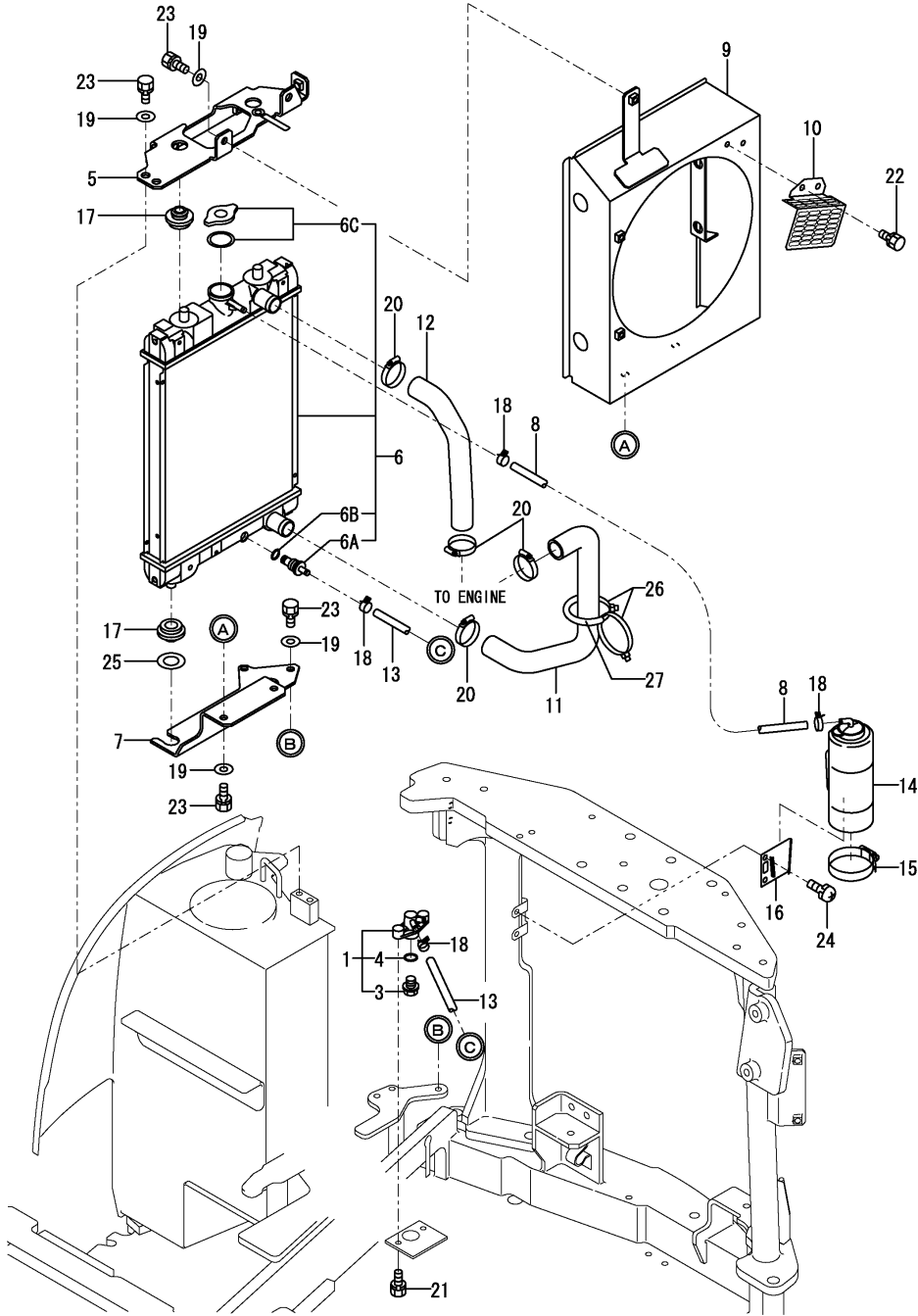
Fig.5. ENGINE MOUNT



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194145-04810	WASHER	2							
2	1	172487-13090	MOUNT LF ASSY (ENG	1							
2-1	1	172487-13091	MOUNT ASSY,ENG LF	1							S
(A=MZZZZZ)											
3	1	172487-13100	MOUNT RE,ENG	1							
3-1	1	172487-13101	MOUNT RF, ENG	1							N
(A=M35842)											
4	1	172A23-13120	MOUNT LR ASSY	1							
4-1	1	172A23-13121	MOUNT ASSY,ENG LR	1							S
(A=MZZZZZ)											
5	1	172456-13120	MOUNT RR,ENG	1							
6	1	172456-13140	STOPPER	1							
7	1	172456-13150	STOPPER	1							
8	1	172179-13211	RUBBER, ANTI VIBRAT.	4							
9	1	22217-100000	WASHER, SPRING 10	8							
10	1	26013-100202	BOLT, M10X 20	2							
11	1	26013-100252	BOLT, M10X 25	2							
12	1	26013-100252	BOLT, M10X 25	16							
13	1	26716-100002	NUT, M10	8							

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

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172444-13210	COCK ASSY, 2-WAY	1							
3	2	121250-49121	PLUG, DRAIN	1							
4	2	24311-000160	O-RING, 1AP16.0	1							
5	1	172A23-13320	BRACKET ASSY,RADIATO	1							
6	1	172482-13300	RADIATOR ASSY	1							
6A	2	172460-13230	PLUG, DRAIN COCK	1							
6B	2	172460-13240	O-RING	1							
6C	2	172456-13310	CAP ASSY	1							
7	1	172A23-13310	BRACKET,RADIATOR	1							
8	1	172157-13381	HOSE	1							
9	1	172A23-13411	SHROUD ASSY	1							
10	1	172A23-13460	GUARD, FAN	1							
11	1	172A23-13510	PIPE, WATER	1							
12	1	172A23-13520	PIPE, WATER	1							
13	1	172734-14620	PIPE L=300, FUEL	1							
14	1	119813-44510	TANK ASSY	1							
15	1	124450-44550	BAND	1							
16	1	121256-44600	BRACKET, SUB TANK	1							
17	1	119255-44660	ABSORBER	4							
18	1	124766-59050	CLIP, HOSE 12	4							
19	1	22137-100000	WASHER, 10	8							
20	1	23001-041000	CLAMP, HOSE 41	4							
21	1	26013-080162	BOLT, M8X 16	2							
22	1	26013-080162	BOLT, M8X 16	2							
23	1	26013-100202	BOLT, M10X 20	8							
24	1	26022-080162	SCREW, M8X16	2							
25	1	172156-81430	SHIM	1							
26	1	172126-11510	BAND 300	1							W
(A=M31331)											
26-1	1	172126-11510	BAND 300	2							K
(A=MXXXXX)											
27	1	172A23-13530	HOSE	1							W
(A=M31331)											

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

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	772456-14111	TANK ASSY, FUEL	1							
1-1	1	772456-14112	TANK ASSY, FUEL	1							N
(A=M36153)											
3	2	172456-14151	GAUGE, FUEL	1							
3-1	2	172456-14152	GAUGE, FUEL	1							R
(A=M35336)											
4	2	172447-14160	FLOAT	1							
5	2	172162-14200	GASKET	1							
6	2	172444-14200	CAP, FUEL	1							
7	3	172444-14450	CAP	1							
8	3	172444-14460	GASKET	1							
9	3	172444-14470	GASKET	1							
10	3	172444-14480	WASHER	1							
11	3	172444-14490	SPONGE	1							
12	2	172458-14202	HOSE, FUEL GAUGE	1							
12-1	2	172458-14203	HOSE, FUEL GAUGE	1							N
(A=M33499)											
13	2	172183-14250	FILTER (FUEL	1							
14	2	23000-013000	CLAMP, 13	2							
15	2	26022-050122	SCREW, M5X12	5							
16	1	104200-11920	COCK, WATER	1							
16-1	1	172A69-14230	VALVE,FUEL DRAIN	1							N
(A=M35842)											
17	1	172444-14260	HOSE,FUEL	1							
18	1	172444-14270	JOINT, DRAIN	1							
19	1	172456-14300	CLAMP ASSY, FUEL	1							
21	2	172456-14330	RUBBER, CLAMP	1							
22	1	172456-14340-1	PLATE ASSY	1							
22-1	1	172456-14340-2	BLADE ASSY	1							S
(A=M/32643)											
22-2	1	172456-14341-1	PLATE ASSY (GRAY:49)	1							N
(A=M45001)											
23	2	172444-14130	PLATE A	1							
25	1	172458-14340	RUBBER PLATE A,FO	1							
26	1	172458-14370	SUMP, FUEL	1							
27	1	172444-14410	HOSE	1							
28	1	106990-44660	CLIP, HOSE 12.5	1							
29	1	124766-59050	CLIP, HOSE 12	2							
30	1	22137-100000	WASHER, 10	1							
31	1	22137-100000	WASHER, 10	3							
32	1	23080-013000	CLAMP, 13	1							
33	1	26013-080202	BOLT, M8X 20	1							
34	1	26013-100202	BOLT, M10X 20	1							
35	1	26013-100202	BOLT, M10X 20	3							
36	1	26367-100002	NUT, M10	2							

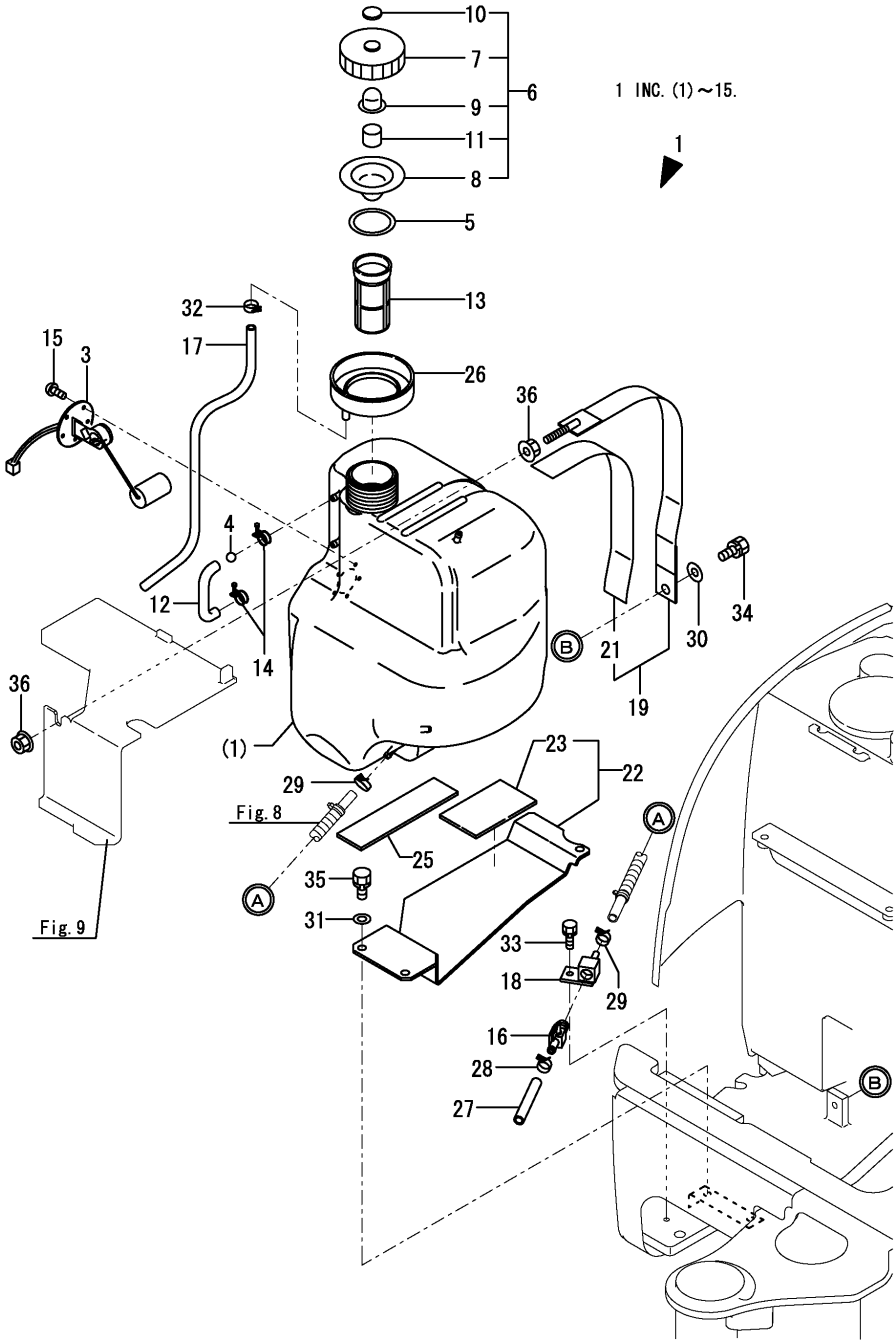
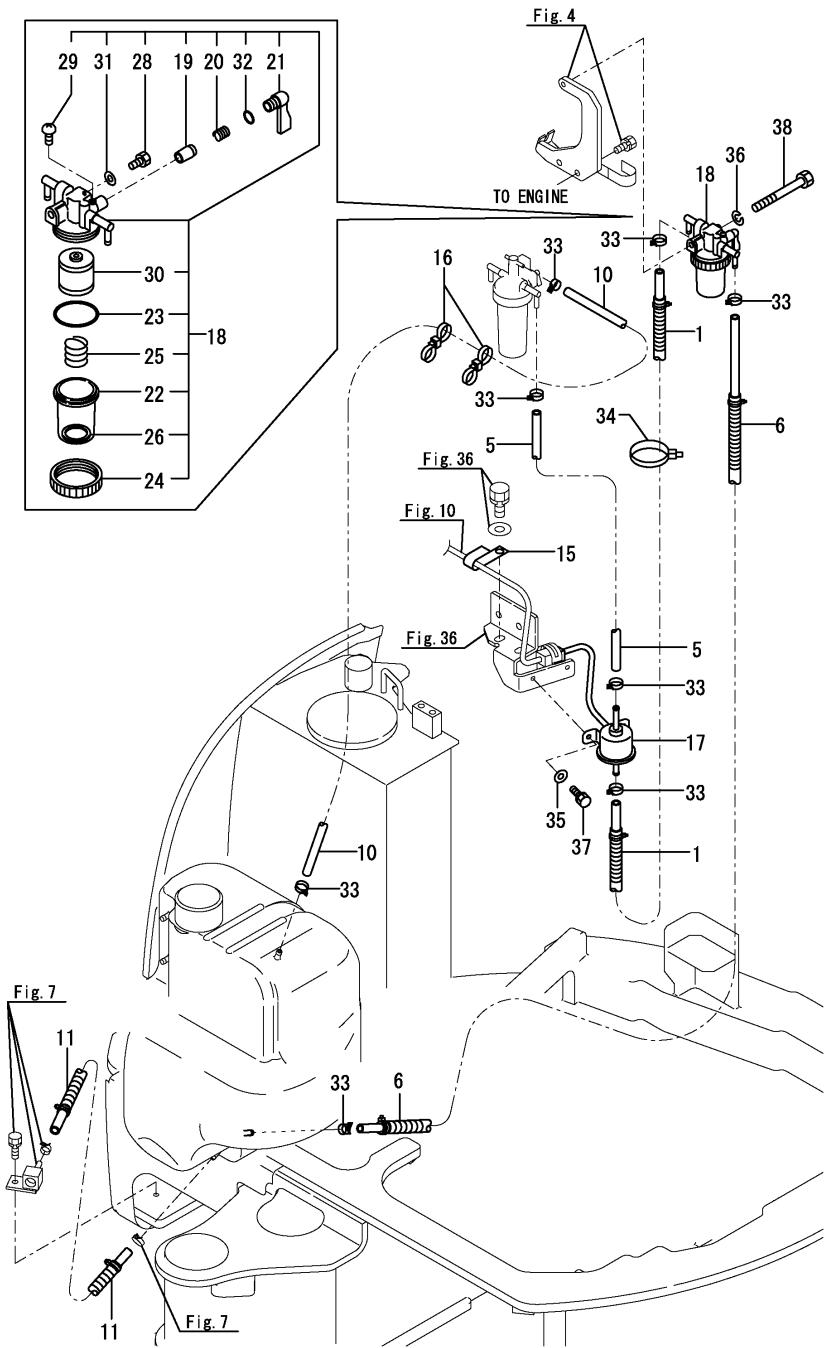
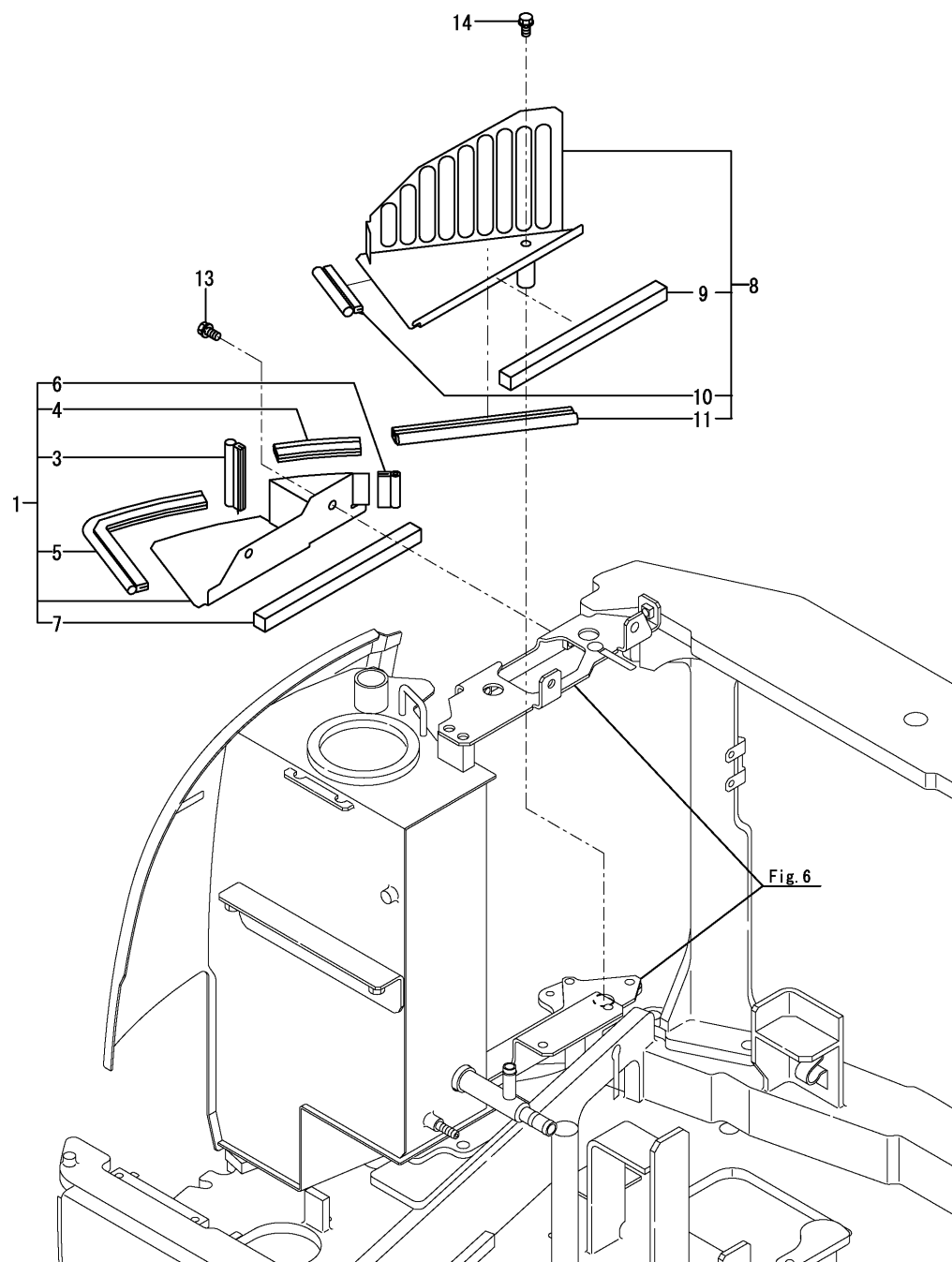


Fig.8. FUEL LINE



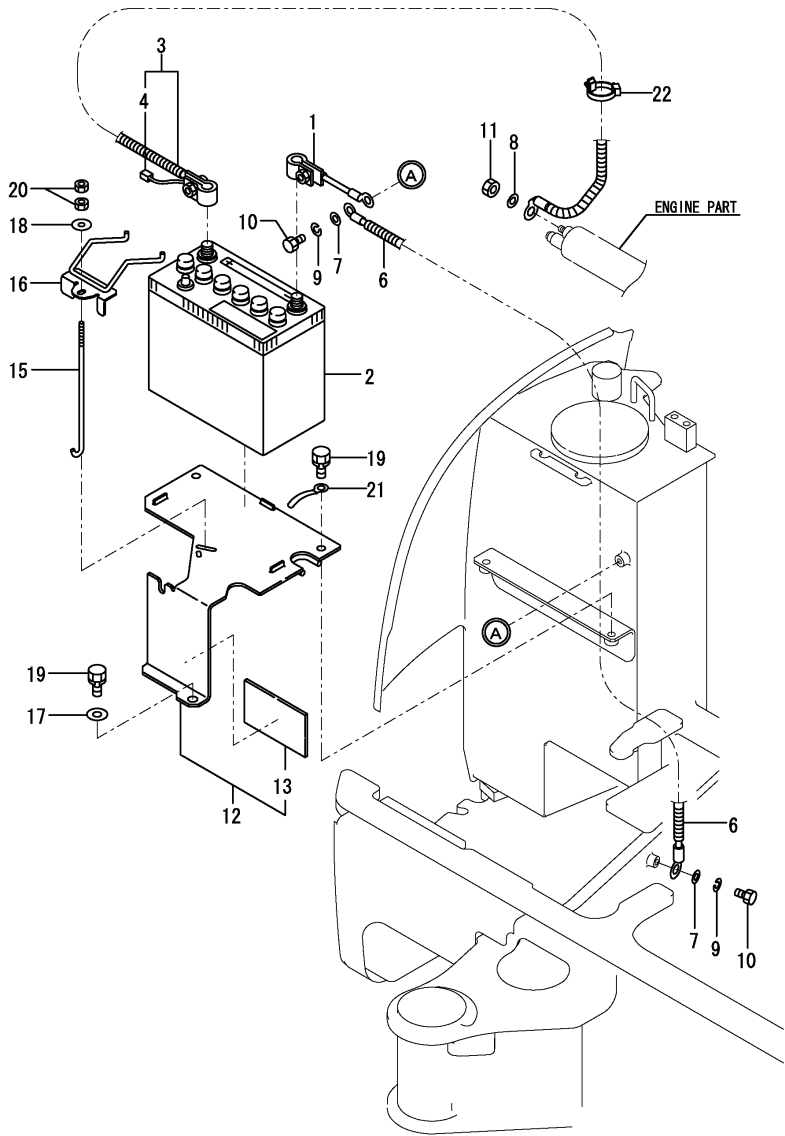
OCS10-M46401 Fig.8												
(A)=VIO20-3(KR)												
(B)=												
(C)=												
(D)=												
(E)=												
(F)=												
Q'ty												
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R	
1	1	172186-13810	HOSE ASSY	1								
5	1	172171-14610	HOSE, FUEL	1								
6	1	172456-14610	HOSE,FO1470 ASSY	1								
10	1	172122-14620	PIPE, FUEL	1								
10-1	1	172A23-14100	PIPE (C), FUEL	1							N	
(A=M32861)												
10-2	1	172487-14520	HOSE	1							N	
(A=MZZZZZ)												
11	1	172456-14630	HOSE,FO 150 ASSY	1								
15	1	172126-16540	CLAMP	1							Z	
(A=M31474)												
16	1	172137-16560	BAND	2								
16-1	1	172126-11510	BAND	5							N	
(A=MZZZZZ)												
17	1	129612-52100	PUMP ASSY, FUEL FEED	1								
18	1	129335-55700	SEPARATOR ASSY,WATER	1								
19	2	104200-55321	VALVE, TAPER	1								
20	2	104200-55330	SPRING, VALVE	1								
21	2	104200-55341	HANDLE	1								
22	2	124064-55510	COVER	1								
23	2	102103-55520	O-RING	1								
24	2	110250-55610	RING, RETAINING	1								
25	2	121257-55720	SPRING	1								
26	2	121257-55731	FLOAT	1								
28	2	101720-55750	PLUG, 6	2								
29	2	104200-55750	SCREW, M4	1								
30	2	171081-55910	SCREEN	1								
31	2	23418-060000	GASKET, 6X1.0	2								
32	2	24311-240100	O-RING, 1AP10A	1								
33	1	124766-59050	CLIP, HOSE 12	8								
34	1	172122-79930	CLAMP, HOSE	1								
35	1	22137-060000	WASHER, 6	2								
36	1	22217-080000	WASHER, SPRING 8	1								
37	1	26013-060202	BOLT, M6X 20	2								
37-1	1	26013-060162	BOLT, M6X 16	2							N	
(A=M31474)												
38	1	26116-080702	BOLT, M8X 70 PLATED	1								

Fig.38. DUCT



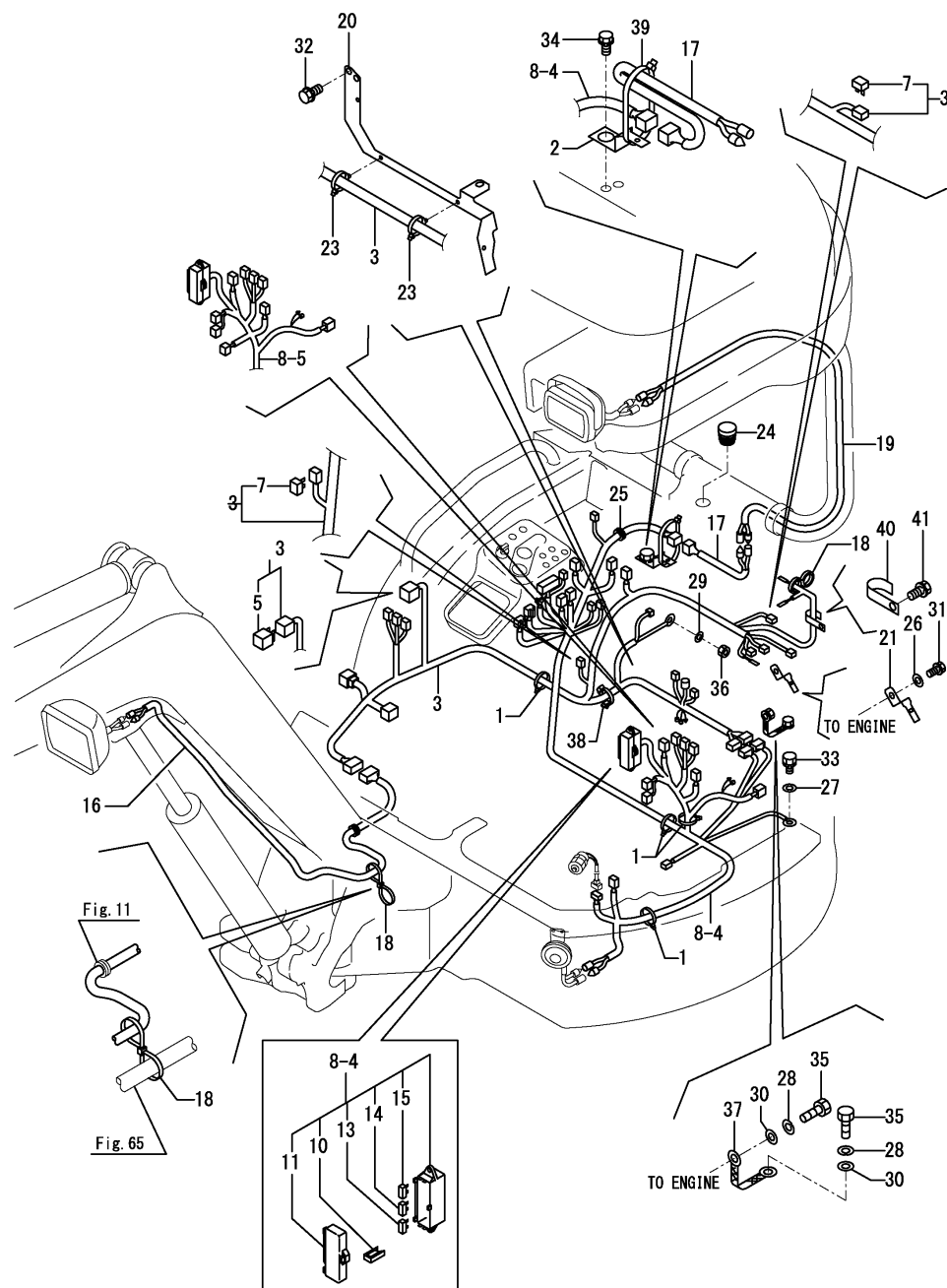
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A23-65700	DUCT ASSY	1							
1-1	1	172A23-65700-1	DUCT ASSY	1							S
(A=M/#32643)											
3	2	172456-65790	RUBBER, SEAL	1							
4	2	172456-65860	RUBBER, SEAL	1							
4-1	2	172455-63660	SEAL, RUBBER	1							N
(A=MXXXXX)											
5	2	172164-66480	RUBBER 340, SEAL	1							
6	2	172164-66800	RUBBER, SEAL 60	1							
7	2	172480-75260	SEAL, RESERVER	1							
8	1	172A23-65750-1	DUCT ASSY	1							
8-1	1	172A23-65750-3	DUCT ASSY	1							S
(A=M/#32643)											
9	2	172480-13520	SEAL	1							
10	2	172164-61250	RUBBER, SEAL	1							
11	2	172175-64810	SEAL	1							
11-1	2	172444-54910	SEAL, WEIGHT	1							N
(A=MXXXXX)											
13	1	26013-100202	BOLT, M10X 20	2							
14	1	26013-100752	BOLT, M10X 75	1							

Fig.9. BATTERY



														OCS10-M46401		Fig.9	
														(A)=VIO20-3(KR)		(D)=	
														(B)=		(E)=	
														(C)=		(F)=	
No.	Lev.	Parts No.	Description	Q'ty						I	R						
				(A)	(B)	(C)	(D)	(E)	(F)								
1	1	172444-16110	HARNES,BATTERY(-)	1													
2	1	172458-16110	BATTERY	1													
3	1	172456-16200	CORD, BATTERY	1													
4	2	172458-16140	HARNESS, WIRE	1													
6	1	172456-16210	CORD, BATTERY	1													
7	1	22137-080000	WASHER, 8	2													
8	1	22217-080000	WASHER, SPRING 8	1													
9	1	22217-080000	WASHER, SPRING 8	2													
10	1	26116-080162	BOLT, M8X 16 PLATED	2													
11	1	26716-080002	NUT, M8	1													
12	1	172456-16100	BRACKT,BATTERY	1													
12-1	1	172456-16101	BRACKT,BATTERY	1							N						
(A=M45001)																	
13	2	172444-14130	PLATE, RUBBER	1													
15	1	172725-16160	ROD, BATTERY CLAMP	1													
16	1	172458-16300	CLAMP ASSY, BATTERY	1													
17	1	22137-100000	WASHER, 10	1													
18	1	22157-060000	WASHER, 6	1													
19	1	26013-100202	BOLT, M10X 20	3													
20	1	26716-060002	NUT, M6	2													
21	1	172126-16540	CLAMP	1							W						
(A=MZZZZZ)																	
22	1	194680-51670	BAND, CLIP	1							W						
(A=MZZZZZ)																	
														</			

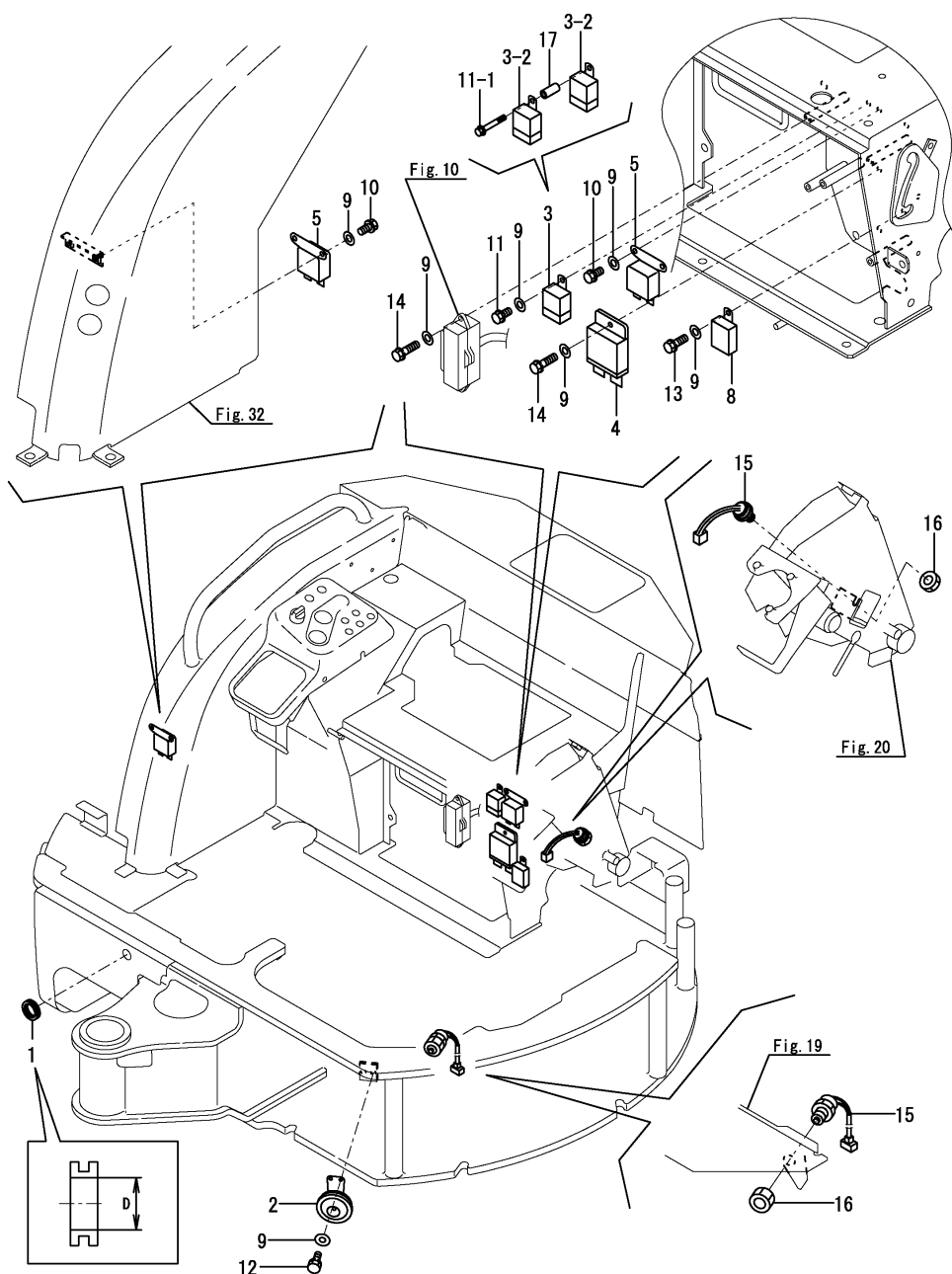
Fig.10. ELECTRIC PARTS(WIRING)



				(A)=VIO20-3(KR) (B)= (C)=	(D)= (E)= (F)=					I	R
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172126-11510	BAND	4							
1-1	1	172126-11510	BAND	8							K
(A=M31331)											
2	1	172A23-14200	SUPPORT, CONNECTOR	1							
3	1	172A23-16500	HARNESS ASSY ,A	1							
5	2	172458-16550	FUSE, SLOWBLOW	1							
7	2	172648-16600	DIODE, 1.5-2P	2							
8-4	1	172A23-16400	HARNESS B ASSY,KIT	1							W
(A=M30501)											
8-5	1	172A23-16401	HARNESS B ASSY,KIT	1							S
(A=M37431)											
10	3	172175-17120	PULLER	1							
11	3	172187-17220	COVER	1							
13	3	29420-050000	FUSE, B 5A	2							
14	3	29420-150000	FUSE, B 15A	6							
15	3	29420-300000	FUSE, B 30A	2							
16	1	172456-16530	HARNESS,BOOM LAMP	1							
16-1	1	172456-16531	HARNESS, BOOM LAMP	1							N
(A=M3A362)											
17	1	172A23-16540	HARNESS, WIRE	1							
18	1	172137-16560	BAND	2							
19	1	172458-16561	HARNESS,CANOPY LAMP	1							
19-1	1	172458-16562	HARNESS, LAMP	1							N
(A=M30865)											
20	1	172A23-16600	SUPPORT ASSY	1							
21	1	172460-16700	STAY	1							
23	1	194680-51670	BAND, CLIP	4							
24	1	172480-54150	PLUG	1							
25	1	172958-64500	PLUG	1							
26	1	22137-080000	WASHER, 8	1							
27	1	22137-100000	WASHER, 10	1							
28	1	22137-120000	WASHER, 12	2							
29	1	22217-060000	WASHER, SPRING 6	1							
30	1	22217-120000	WASHER, SPRING 12	2							
31	1	26013-080162	BOLT, SPRING M8X 16	1							
32	1	26013-100162	BOLT, SPRING M10X 16	2							
33	1	26013-100202	BOLT, SPRING M10X 20	1							
34	1	26013-100202	BOLT, SPRING M10X 20	1							
35	1	26116-120162	BOLT, M12X 16 PLATED	2							
36	1	26716-060002	NUT, M6	1							
37	1	933171-15801	CORD, ENGINE EARTH	1							
38	1	194680-51670	BAND, CLIP	2							W
(A=M45774)											
39	1	172126-11510	BAND	1							W
(A=M3B603)											
40	1	1A1380-59480	CLAMP, CORD	1							
41	1	26013-100162	BOLT, M10X 16	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

Fig.11. ELECTRIC PART(EQUIPMENT)



(1)REF.NO.1 D=15MM, NO.1-1 D=25MM.

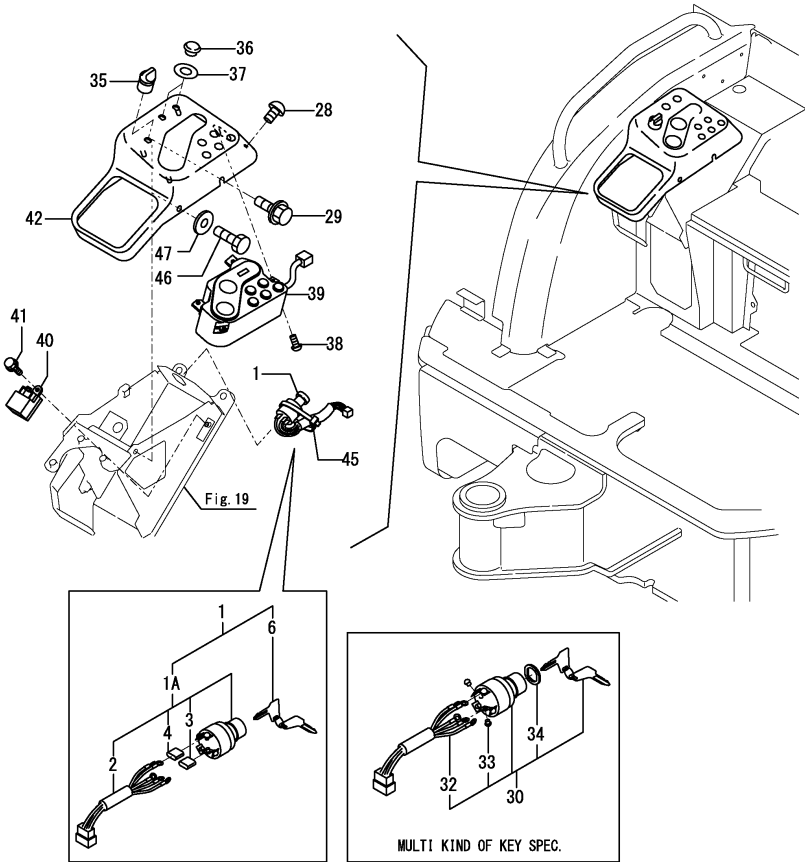
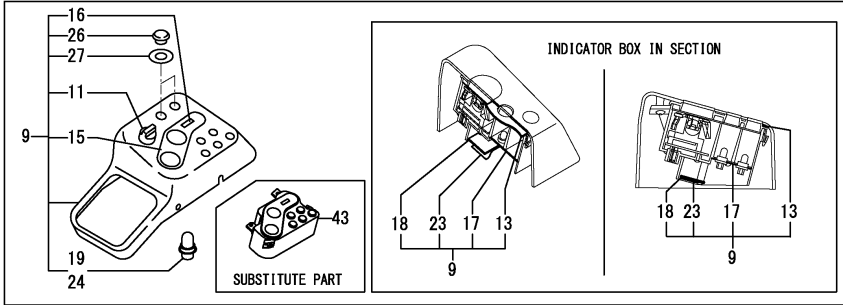
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	(A)	(B)	Q'ty				I	R
						(C)	(D)	(E)	(F)		
1	1	172187-16560 (A=M32722)	GROMMET	1						Z	
1-1	1	933171-15680 (A=M32722)	GROMMET	1						W	1
2	1	194151-57100	HORN	1							
3	1	119247-77100	RELAY, SAFETY	1							
3-1	1	198461-52950 (A=MZZZZZ)	RELAY, CA TYPE C	1						R	
3-2	1	198461-52950 (A=M37431)	RELAY, CA TYPE C	2						K	
4	1	119802-77200	RELAY, SAFETY	1							
5	1	119650-77910	RELAY ASSY, GLOW	2							
8	1	129211-77920	TIMER	1							
9	1	22137-060000	WASHER, 6	11							
9-1	1	22137-060000 (A=M37431)	WASHER, 6	10						K	
10	1	26013-060122	BOLT, M6X 12	4							
11	1	26013-060122	BOLT, M6X 12	1							
11-1	1	26014-060402 (A=M37431)	BOLT, M6X 40	1						S	
12	1	26013-060162	BOLT, M6X 16	2							
12-1	1	26013-060122 (A=MXXXXX)	BOLT, M6X 12	2						N	
13	1	26013-060162	BOLT, M6X 16	1							
14	1	26013-060202	BOLT, M6X 20	3							
15	1	194464-52190	SWITCH, SAFETY START	2							
16	1	26776-180002	NUT, LOCK M18	2							
17	1	172A65-17480 (A=M37431)	COLLAR	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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(A)=VIO20-3(KR)
(B)=
(C)=

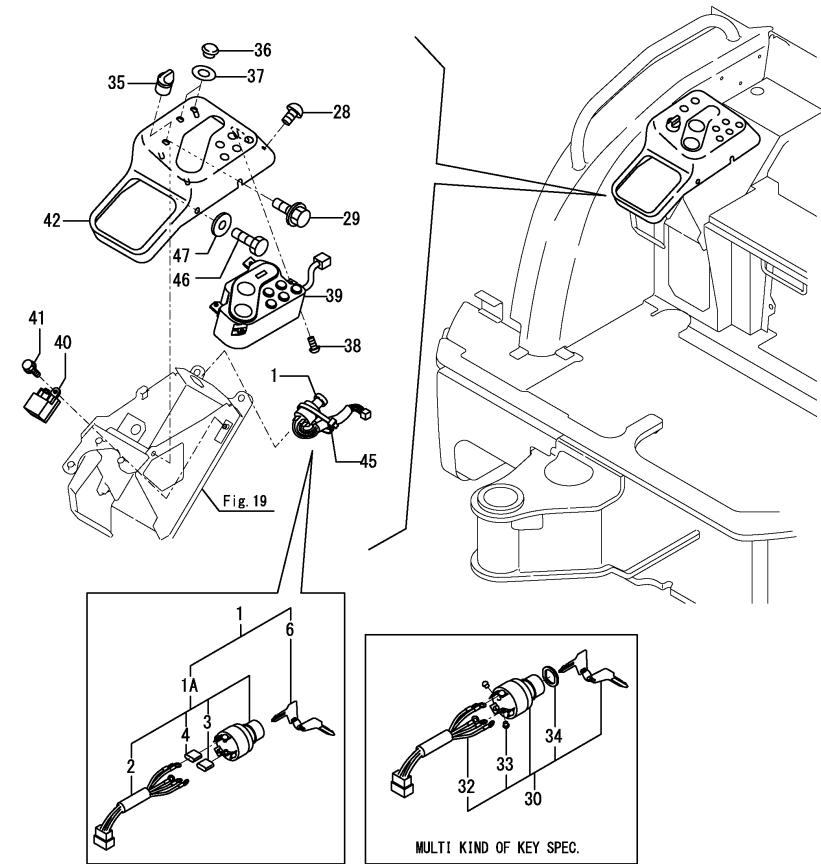
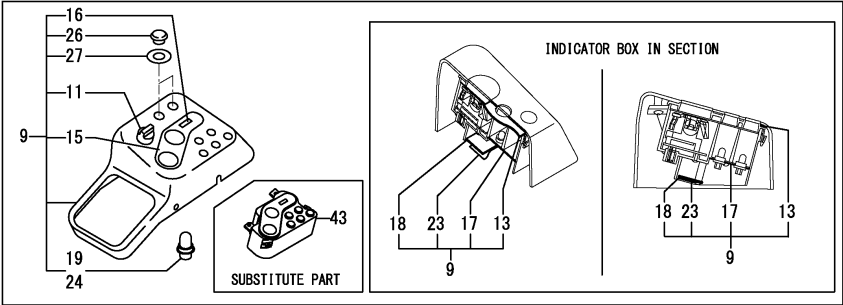
(D)=
(E)=
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172187-17100	SWITCH ASSY, STARTER	1							
1-1	1	172187-17101 (A=M39084)	SWITCH ASSY, STARTER	1						N	
1-2	1	172527-17101 (A=*2018.12)	SWITCH ASSY, STARTER	1							R
1A	2	172A47-17210 (A=M36045)	CYLINDER ASSY, KEY	1							W
1A-1	2	172A47-17211 (A=M39084)	CYLINDER ASSY, KEY	1						N	
2	2	172187-17070	CORD ASSY	1							
3	2	172187-17080	COVER	3							
4	2	172187-17090	COVER	2							
6	2	933110-00301	KEY ASSY	1							
6-1	2	172524-17330 (A=*2018.12)	KEY ASSY, E	1							R
9	1	172458-17501 (A=M/#35460)	BOX,INDICATOR(CANOPY	1						Z	2
11	2	172187-17280	SWITCH ASSY, LIGHT	1							
13	2	172187-17320	PACKING	1							
15	2	172187-17341	GAUGE ASSY	1							
16	2	172187-17350	METER ASSY, HOUR	1							
17	2	172187-17360	PRINT, CIRCUIT	1							
18	2	172187-17371	CIRCUIT ASSY	1							
19	2	172187-17380	BULB	4							
23	2	172187-17470	PLATE	1							
24	2	172187-17480	BULB	2							
26	2	172187-17560	CAP	2							
27	2	172187-17570	GASKET	2							
28	1	172458-46720	BOLT	1							
28-1	1	172519-63240	BOLT	1							R
(A=*2015.06.)											
29	1	172519-63240	BOLT	3							
29-1	1	172519-63240	BOLT	2							K
(A=*2015.06.)											
30	1	172458-17171	KEY ASSY	1							1
32	3	172458-17150	HARNESS	1							
33	3	26022-050102	SCREW, M5X10	5							
34	2	172458-17161	PLATE	1							
35	1	172187-17280	SWITCH ASSY, LIGHT	1							W
(A=M35460)											
36	1	172187-17560 (A=M35460)	CAP	2							W
37	1	172187-17570 (A=M35460)	GASKET	2							W
38	1	22877-400121 (A=M35460)	SCREW, 4X12	4							W
39	1	172A77-17250 (A=M35460)	MONITOR ASSY	1							W
40	1	124970-77920 (A=M35460)	TIMER	1							W
41	1	26014-060202	BOLT, M6X 20	1							W

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

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



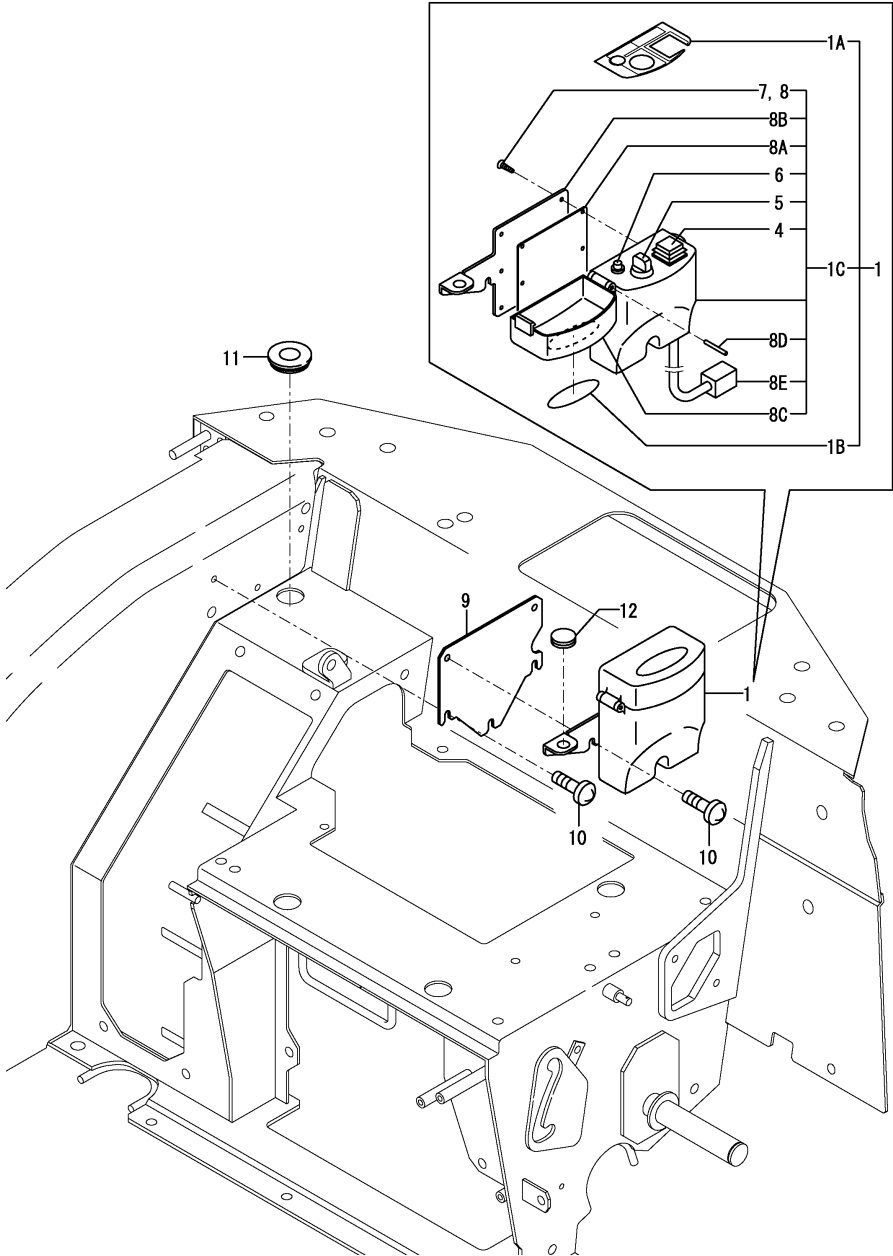
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
42	1	172A25-17200	IN-PANE R,CANOPY	1							W
43	1	172A77-17500	MONITOR ASSY	1							3
45	1	172126-11510	BAND	1							W
46	1	172487-63500	BOLT,LOW HEAD 8X20	1							W
47	1	22137-080000	WASHER, 8	1							W

Remarks
(1)Engine start only.
(2)HOUR METER = ANALOG TYPE.
PART USES REF.NO.43.
(3)HOUR METER = L.C.D. TYPE.

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

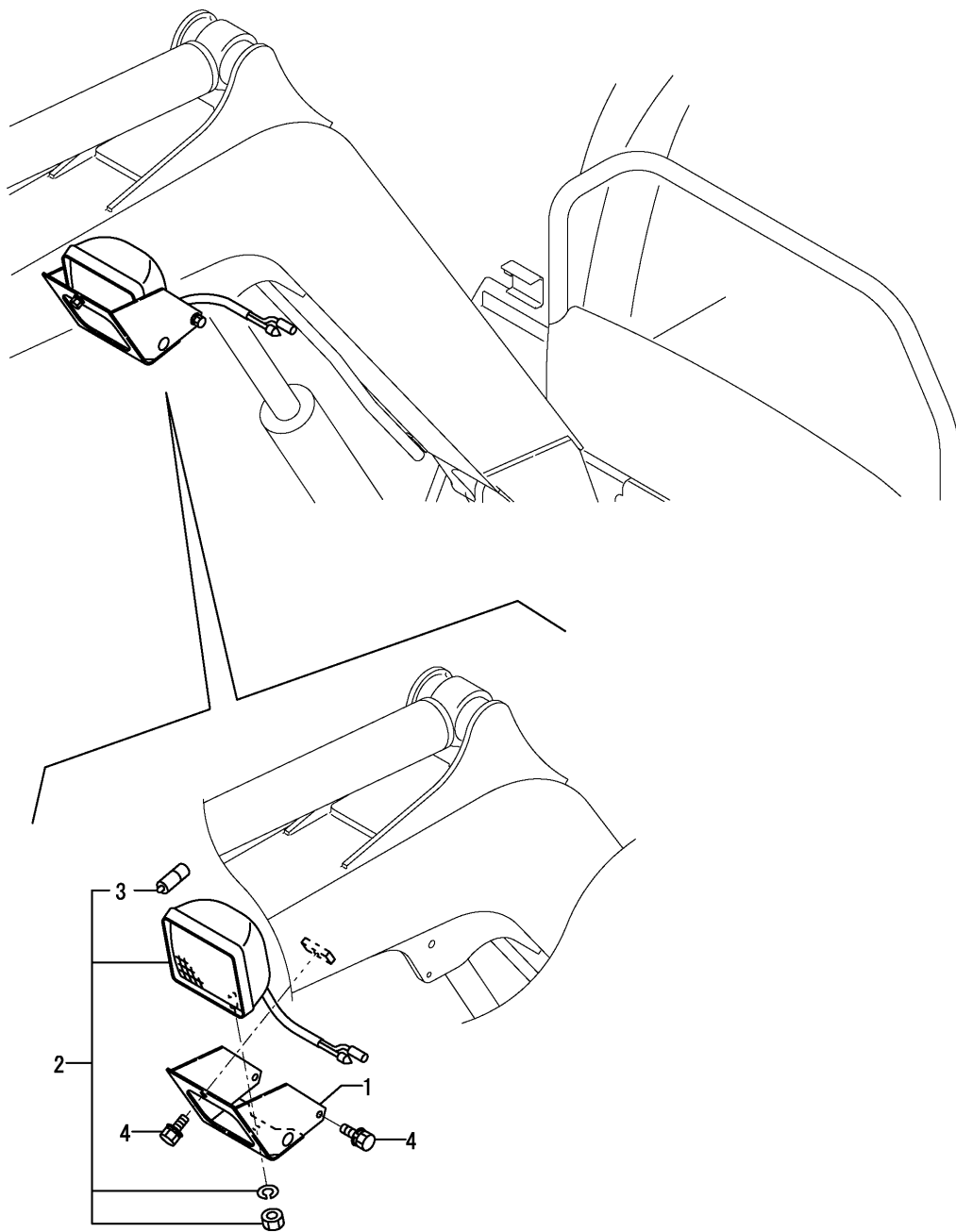
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172958-17110 (A=M/#35241)	SWITCH BOX(EX	1						W	
1A	2	172472-03290 (A=M/#35241)	LABEL, SWITCH	1						W	
1B	2	172472-03300 (A=M/#35241)	LABEL, COVER	1						W	
1C	2	172958-17101 (A=M/#35241)	BOX, SWITCH	1						W	1
4	3	172958-17140	SWITCH ASSY	1							1
5	3	172958-17150	SWITCH ASSY	1							1
6	3	172958-17160	INDICATER LAMP(CP	1							1
7	3	172958-17170	SCREW, TAPPING	1							1
7-1	3	172958-17170 (A=M/#31700)	SCREW, TAPPING	6						K	1
8	3	172958-17180	SCREW, TAPPING	1							1
8-1	3	172958-17180 (A=M/#31700)	SCREW, TAPPING	2						K	1
8A	3	172958-17190 (A=M/#31700)	PACKING	1						W	
8B	3	172958-17200 (A=M/#31700)	BRACKET	1						W	
8C	3	172958-17210 (A=M/#31700)	CASE	1						W	
8D	3	22351-030028 (A=M/#31700)	PIN, SPRING 3.0X28	1						W	
8E	3	172958-17220 (A=M/#32563)	CORD	1						W	
9	1	172A30-17200	BRACKET ASSY,Q HITCH	1							
10	1	172137-46210	SCREW	5							
11	1	172958-64500	PLUGE 28X302 Q	1							
12	1	172187-64900	PLUG	1							



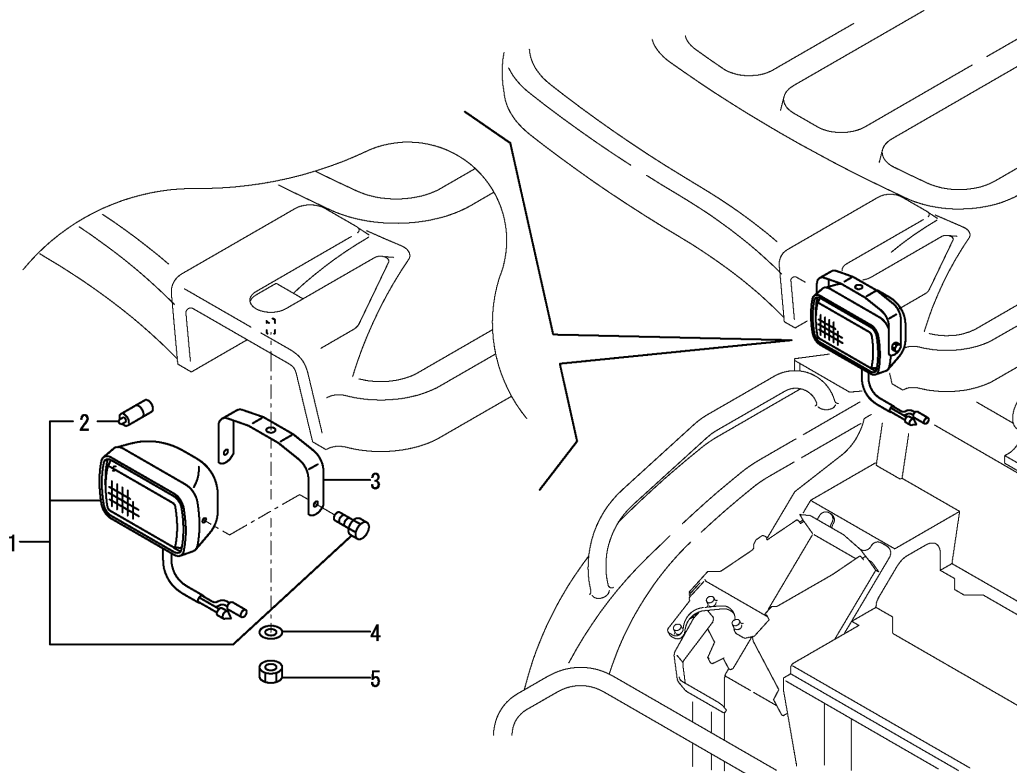
Remarks
(1)LEVEL CHANGED.

Fig.14. WORK LAMP

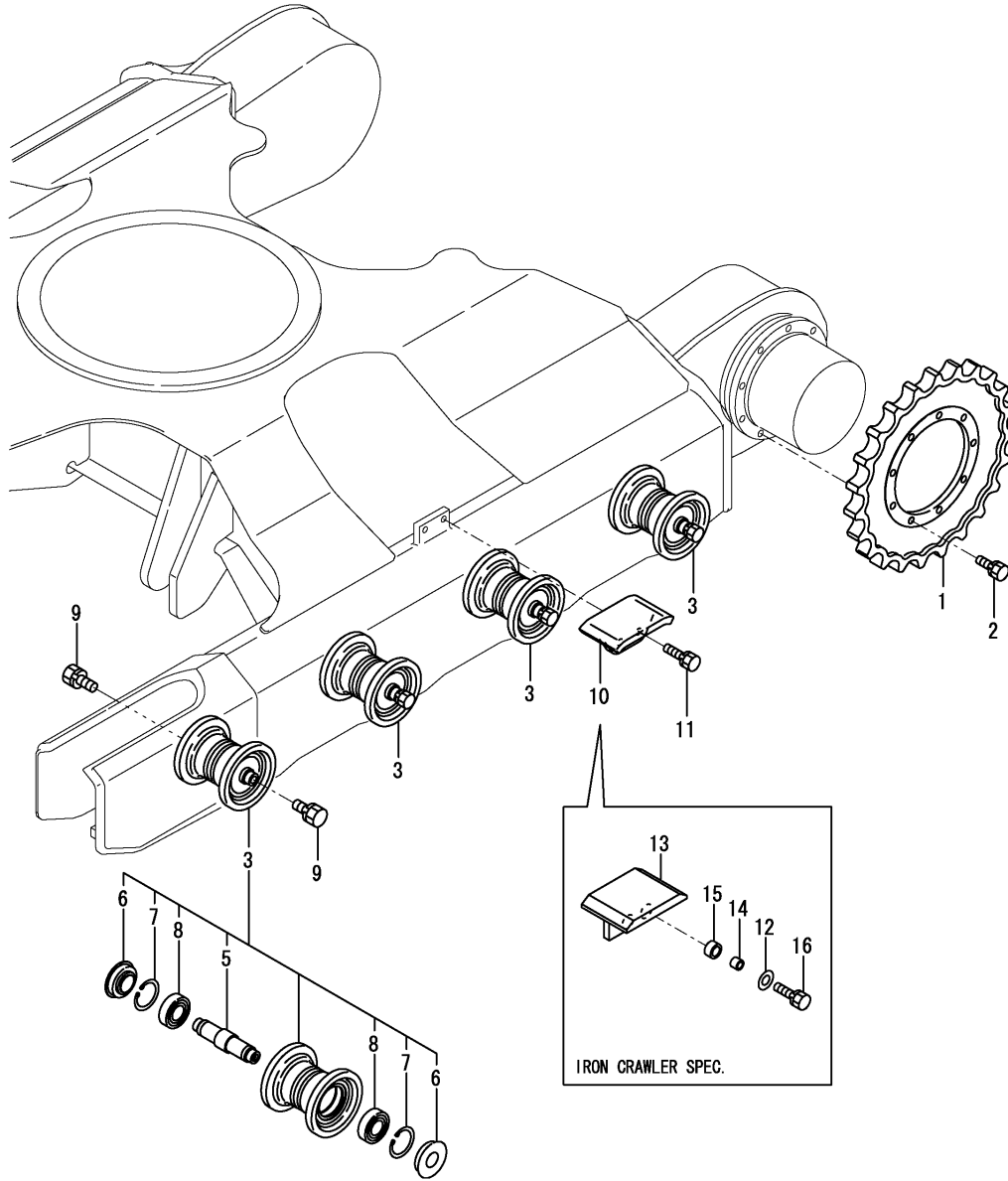


No.	Lev.	Parts No.	Description	(A)=VIO20-3(KR)		(D)=		I	R
				(B)=	(C)=	(E)=	(F)=		
				(A)	(B)	(C)	(D)	(E)	(F)
1	1	172456-17400-1	COVER ASSY, LAMP	1					
1-1	1	172456-17400-2	COVER ASSY, LAMP	1					S
		(A=M34345)							
1-2	1	172456-17401-2	COVER ASSY, LAMP	1					N
		(A=M45001)							
1-3	1	172456-17401-Y	COVER ASSY, LAMP	1					S
		(A=M45501)							
2	1	172458-17450	LAMP, WORK	1					
3	2	172187-17540	BULB	1					
4	1	26014-080202	BOLT, M8X 20	3					

Fig.15. CANOPY LAMP



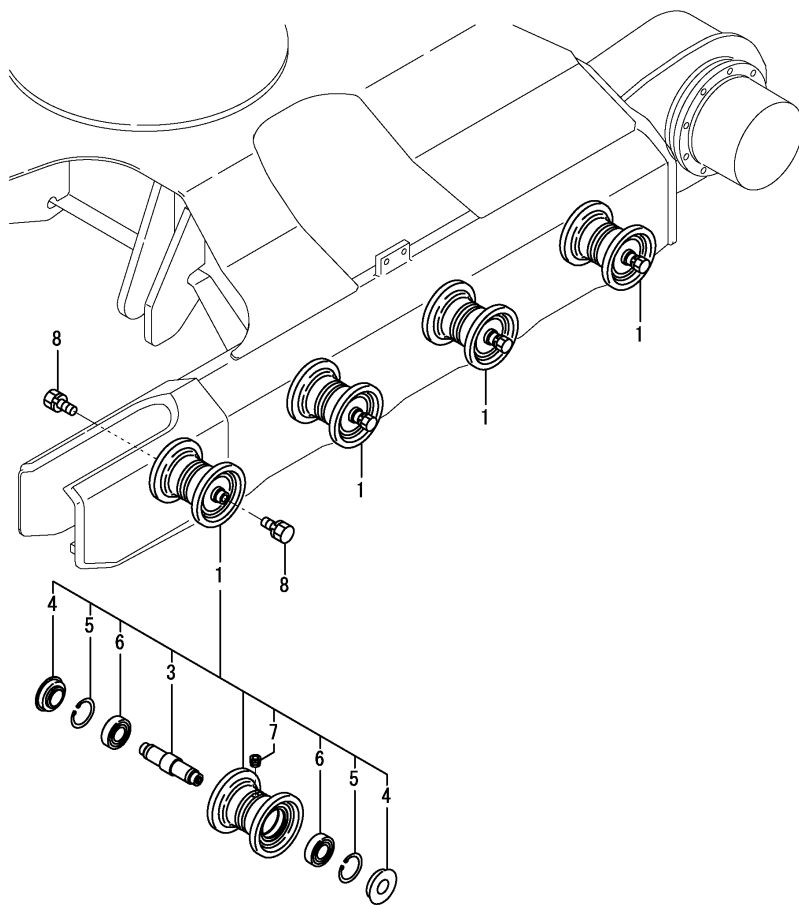
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	172458-17400	LAMP	1							
2	2	172458-17420	BULB	1							
3	1	172458-17410	STAY, LAMP	1							
3-1	1	172458-17410-Y (A=M45501)	STAY, LAMP	1							S
4	1	22137-100000	WASHER, 10	1							
5	1	26346-100002	NUT, M10	1							



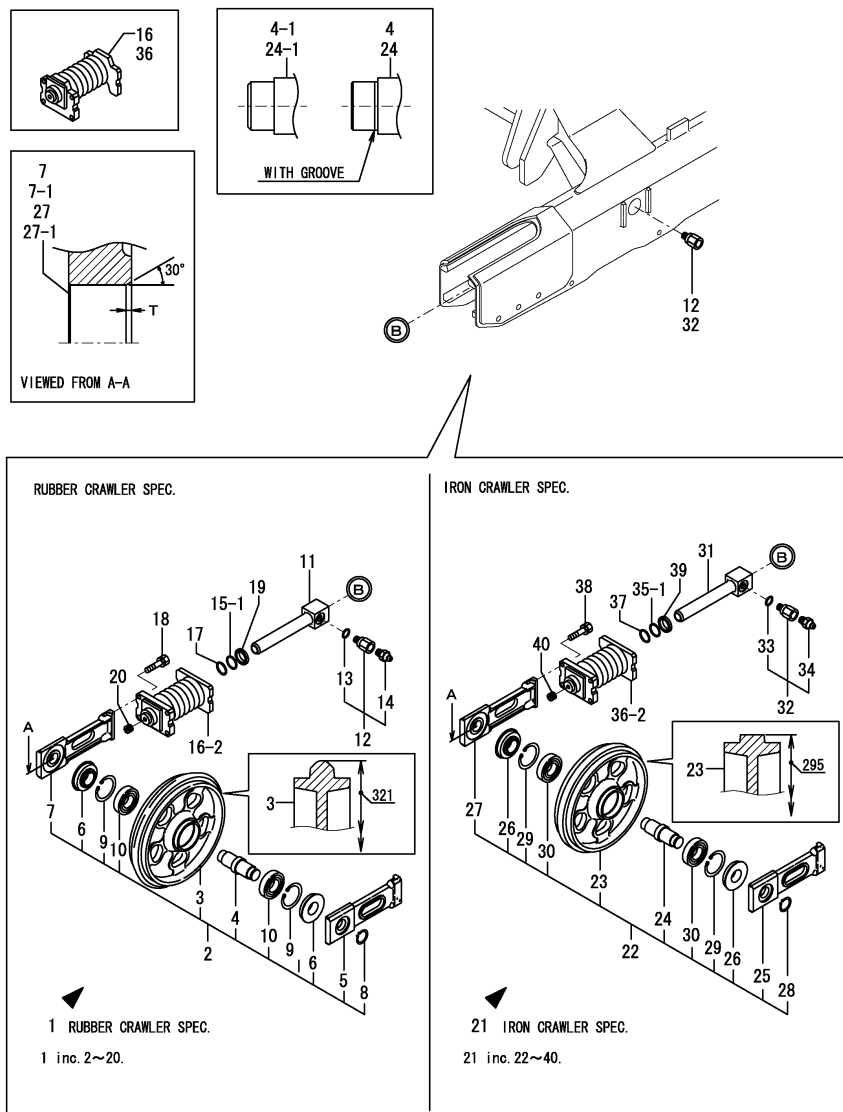
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172173-29100-1	SPROCKET	2							
1-1	1	172173-29100-2	SPROCKET, 23	2							S
(A=M/#32643)											
2	1	26013-100252	BOLT, SPRING M10X 25	18							
3	1	772456-37301-1	ROLLER ASSY, TRACK	8							
3-1	1	172487-37050-2	ROLLER ASSY, TRACK	8							N
(A=M/#32860)											
3-2	1	172487-37050-1	ROLLER ASSY, TRACK	8							S
(A=M/#32643)											
3-3	1	172487-37050-1	ROLLER ASSY, TRACK	8							Z 3
(A=M3B855)											
5	2	172456-37320	SHAFT, ROLLER	8							
6	2	1E6140-73420	SEAL, OIL 25X52X18	16							
7	2	22252-000520	RING, 52	16							
8	2	24101-062054	BEARING, BALL 6205	16							
9	1	26013-120252	BOLT, SPRING M12X 25	16							
10	1	172456-37500-1	PLATE, SHOE	2							1
10-1	1	172456-37500-2	PLATE, SHOE	2							S 1
(A=M/#32643)											
11	1	26013-100302	BOLT, SPRING M10X 30	4							1
12	1	172110-36010	COLLAR	4							2
13	1	172173-37500-2	PLATE, SHOE	2							2
13-1	1	172173-37500-3	PLATE,HOSE BAFFLE(49	2							S 2
(A=M/#32643)											
14	1	172183-37510	COLLAR, 11X16X13	4							2
15	1	172183-37520	COLLAR, 16X24X13	4							2
16	1	26013-100352	BOLT, SPRING M10X 35	4							2

(1)Rubber crawler specification.
(2)Iron crawler specification.
(3)Interchangeable by Fig.84(16A) No.1.

N:Old $\begin{smallmatrix} \text{Yes} \\ \text{No} \end{smallmatrix}$ New, Q:Old $\begin{smallmatrix} \text{No} \\ \text{Yes} \end{smallmatrix}$ New, R:Old $\begin{smallmatrix} \text{Yes} \\ \text{Yes} \end{smallmatrix}$ New, S:Old $\begin{smallmatrix} \text{No} \\ \text{No} \end{smallmatrix}$ 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	172A23-37300	ROLLER ASSY, LOWER	1							W
		(A=M3B855)									
3	2	172A23-37320	SHAFT	1							
4	2	1E6140-73420	SEAL, OIL 25X52X18	2							
5	2	22252-000520	RING, 52	2							
6	2	24101-062054	BEARING, BALL 6205	2							
7	2	933171-13691	PLUG	1							
8	1	26013-120252	BOLT, SPRING M12X 25	2							



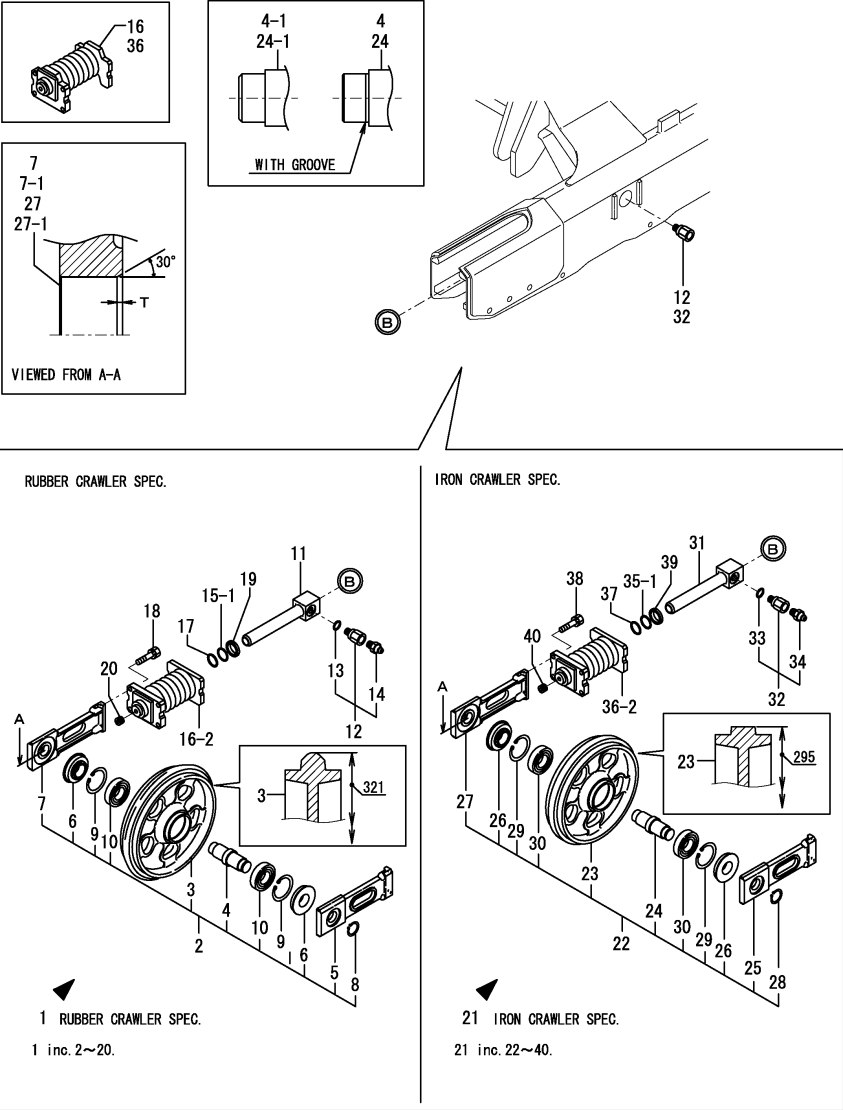
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	772456-37120-2	IDLER ASSY, RUBBER	2							1
1-1	1	772456-37120-1	IDLER ASSY, RUBBER	2							S 1
		(A=M/#32643)									
2	2	772456-37100-1	IDLER ASSY, RUBBER	2							
2-1	2	772456-37100-2	IDLER ASSY, RUBBER	2							S
		(A=M/#32643)									
3	3	172456-37100-1	IDLER, 285	2							
3-1	3	172456-37100-2	IDLER ASSY	2							S
		(A=M/#32643)									
4	3	172456-37120	SHAFT, IDLER	2							
4-1	3	172456-37121	SHAFT, IDLER	2							F 3
		(A=M/#32797)									
5	3	172456-37130	COVER, CYLINDER L	2							
6	3	172141-37140	SEAL, 357220	4							
7	3	172456-37140	COVER, IDLER SEAL R	2							
7-1	3	172456-37141	COVER, CYLINDER R	2							S 5
		(A=M/#32797)									
8	3	22242-000300	RING, 30	2							
9	3	22252-000720	RING, 72	4							
10	3	24101-062074	BEARING, BALL 6207	4							
11	2	172456-37801	TUBE ASSY, ADJUST	2							
12	2	172122-37844	VALVE ASSY, NIPPLE	2							
13	3	24315-000140	O-RING, 1BP14.0	2							
14	3	24761-020000	NIPPLE, GREASE PT1/8	2							
15-1	2	172A23-37750	RING, BACK UP P30	2							W
		(A=M31988)									
16	2	172421-37851	SPRING ASSY, ADJUST	2							1
16-1	2	172421-37852	SPRING ASSY, CRAWLER	2							N 1
		(A=M/#32044)									
16-2	2	172421-37853	SPRING ASSY, CRAWLER	2							S 1
		(A=M/#32563)									
17	2	24315-000300	O-RING, 1BP30.0	2							
18	2	26013-100402	BOLT, M10X 40	8							
19	2	933126-38600	SEAL, DUST DKB	2							
20	2	933171-13691	PLUG, PT1/8	2							
21	1	772456-37130-2	IDLER ASSY, IRON	2							2
21-1	1	772456-37130-1	IDLER ASSY, IRON	2							S 2
		(A=M/#32643)									
22	2	772456-37110-1	IDLER ASSY, IRON	2							
22-1	2	772456-37110-2	IDLER ASSY, IRON	2							S
		(A=M/#32643)									
22-2	2	172456-37080	IDLER S,FRONT ASSY	2							R
		(A=MEF199)									
23	3	172456-37110-1	IDLER, 275	2							
23-1	3	172456-37110-2	IDLER ASSY	2							S
		(A=M/#32643)									
24	3	172456-37120	SHAFT, IDLER	2							
24-1	3	172456-37121	SHAFT, IDLER	2							F 4
		(A=M/#32797)									
25	3	172456-37130	COVER, CYLINDER L	2							
26	3	172141-37140	SEAL, 357220	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
 ++ CONTINUE ++
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Fig.17. IDLER & ADJUST

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

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

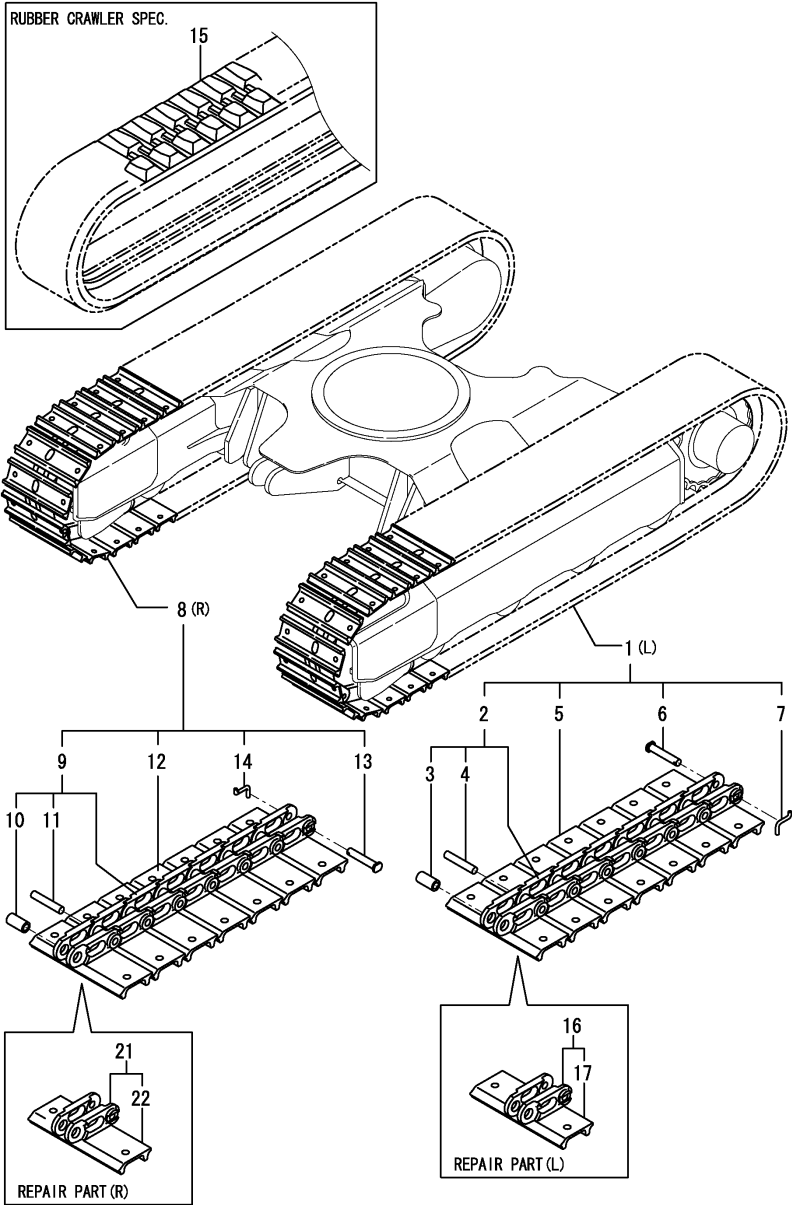


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
27	3	172456-37140	COVER, IDLER SEAL R	2							
27-1	3	172456-37141	COVER, CYLINDER R	2						S	5
(A=M/#32797)											
28	3	22242-000300	RING, 30	2							
29	3	22252-000720	RING, 72	4							
30	3	24101-062074	BEARING, BALL 6207	4							
31	2	172456-37801	TUBE ASSY, ADJUST	2							
32	2	172122-37844	VALVE ASSY, NIPPLE	2							
33	3	24315-000140	O-RING, 1BP14.0	2							
34	3	24761-020000	NIPPLE, GREASE PT1/8	2							
35-1	2	172A23-37750	RING, BACK UP P30	2							W
(A=M31988)											
36	2	172421-37701	SPRING ASSY, CRAWLER	2							2
36-1	2	172421-37702	SPRING ASSY, CRAWLER	2						N	2
(A=M/#32044)											
36-2	2	172421-37703	SPRING ASSY, CRAWLER	2						S	2
(A=M/#32563)											
37	2	24315-000300	O-RING, 1BP30.0	2							
38	2	26013-100402	BOLT, M10X 40	8							
39	2	933126-38600	SEAL, DUST DKB	2							
40	2	933171-13691	PLUG, PT1/8	2							

Remarks
(1)RUBBER CRAWLER SPEC.
(2)IRON CRAWLER SPEC.
(3)INTERCHANGEABLE BY SIMULTANEOUS REPLACEMENT WITH REF. NO.7-1.
(4)INTERCHANGEABLE BY SIMULTANEOUS REPLACEMENT WITH REF. NO.27-1.
(5)REF.NO.7,27 T=1MM,
NO.7-1,27-1 T=1.5MM.

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

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



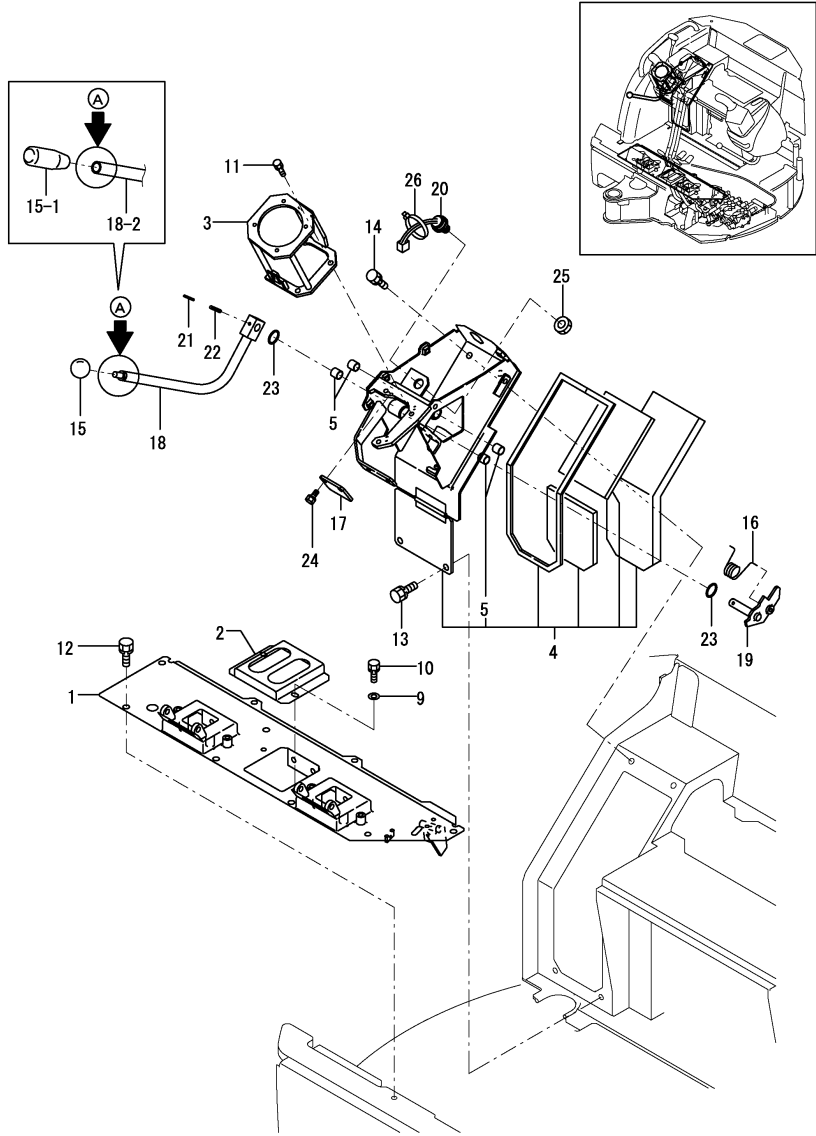
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-38100-1	SHOE ASSY,TRUCK 250L	1							1
1-1	1	172456-38100-2	SHOE ASSY, TRACK 250	1						S	1
(A=M/#32643)											
2	2	172421-38110-1	LINK, CRAWLER	1							
3	3	172173-38200	BUSH, 22.15X43	44							
4	3	172173-38210	PIN, CRAWLER	43							
5	2	172456-38110-1	PLATE, SHOE 250L	44							
5-1	2	172456-38110-2	PLATE, SHOE 250L	44							S
(A=M/#32643)											
6	2	172173-38220	PIN, MASTER	1							
7	2	172173-38300	PIN, LOCK 4X22	1							
8	1	172456-38120-1	SHOE ASSY,TRUCK 250R	1							1
8-1	1	172456-38120-2	SHOE ASSY, TRACK 250	1						S	1
(A=M/#32643)											
9	2	172421-38110-1	LINK, CRAWLER	1							
10	3	172173-38200	BUSH, 22.15X43	44							
11	3	172173-38210	PIN, CRAWLER	43							
12	2	172456-38130-1	PLATE, SHOE	44							
12-1	2	172456-38130-2	SHOE, TRUCK 250 R	44							S
(A=M/#32643)											
13	2	172173-38220	PIN, MASTER	1							
14	2	172173-38300	PIN, LOCK 4X22	1							
15	1	172421-38601	CRAWLER, RUBBER 250	2							2
15-1	1	172421-38602	CRAWLER, RUBBER 250	2							N
(A=*2024.09.)											
16	1	172456-38300-1	TRACK ASSY, MASTER	1							3
16-1	1	172456-38300-2	TRACK ASSY, MASTER	1						S	3
(A=M/#32643)											
17	2	172456-38110-1	PLATE, SHOE 250L	1							
17-1	2	172456-38110-2	PLATE, SHOE 250L	1							S
(A=M/#32643)											
21	1	172456-38310-1	TRACK ASSY, MASTER	1							3
21-1	1	172456-38310-2	TRACK ASSY, MASTER	1						S	3
(A=M/#32643)											
22	2	172456-38130-1	PLATE, SHOE	1							
22-1	2	172456-38130-2	SHOE, TRUCK 250 R	1							S
(A=M/#32643)											

Remarks
(1)IRON CRAWLER SPEC.
(2)RUBBER CRAWLER SPEC.
(3)REPAIR PART.

Fig.19. CONTROL EQUIPMENT(LOCK LEVER & STAND)(RIGHT)

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

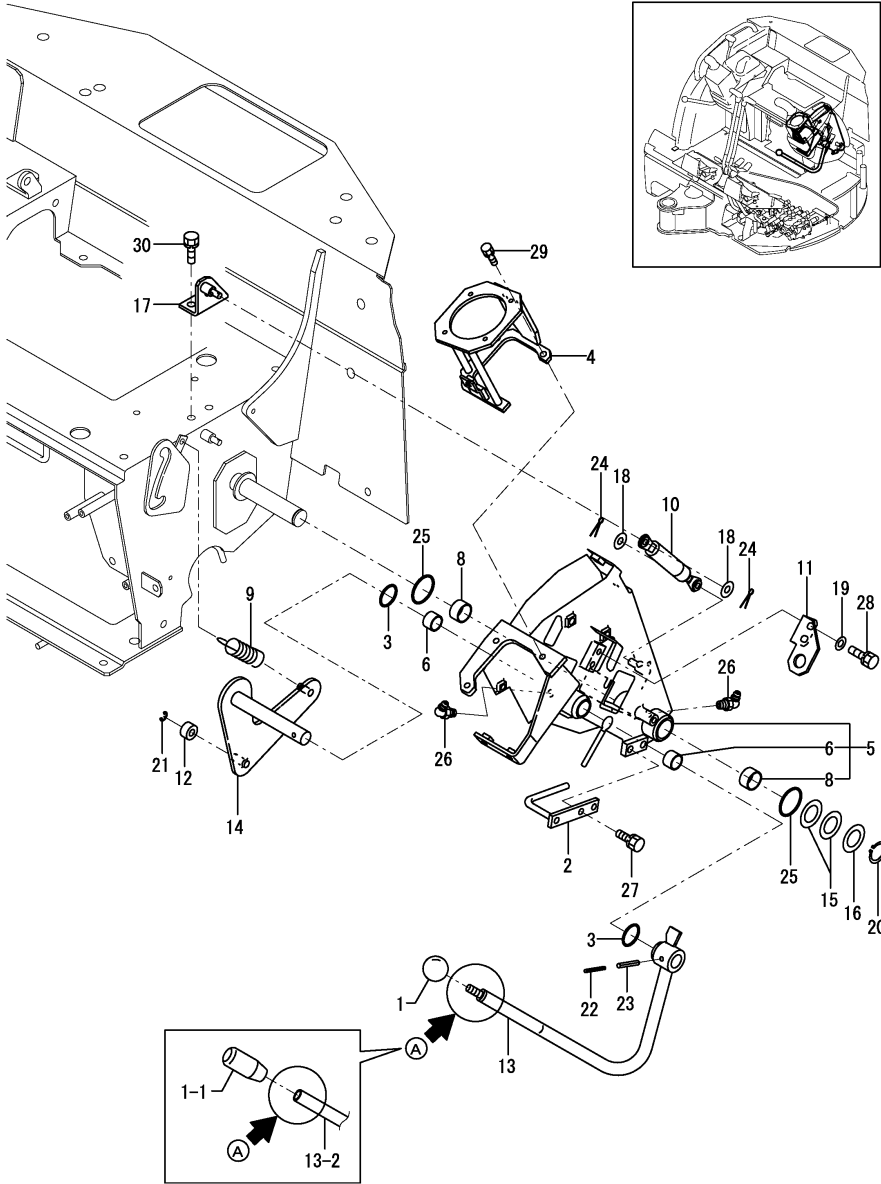
(D)=
(E)=
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172472-45400	STAND ASSY, LINK	1							
1-1	1	172472-45400-1	STAND ASSY, LINK	1							S
(A=M/#32643)											
1-2	1	172472-45401	STAND ASSY, LINK	1							N
(A=M45001)											
2	1	172458-45510	BRACKET, BOOM	1							
2-1	1	172458-45510-1	BRACKET, BOOT	1							S
(A=M/#32643)											
3	1	172472-46210	BRACKET ASSY	1							
4	1	172A36-46800	STAND ASSY, LEVER	1							
4-1	1	172A36-46801	STAND ASSY, LEVER	1							N
(A=M31760)											
4-2	1	172A36-46802	STAND ASSY, LEVER	1							N
(A=M45001)											
5	2	172141-41360	BUSH	4							
9	1	22137-080000	WASHER, 8	2							
10	1	26013-080162	BOLT, M8X 16	2							
11	1	26013-080202	BOLT, M8X 20	3							
12	1	26013-080202	BOLT, M8X 20	6							
13	1	26013-100202	BOLT, M10X 20	2							
14	1	26013-100202	BOLT, M10X 20	3							
15	1	1D4070-23580	GRIP	1							
15-1	1	172A77-46050	GRIP	1							S
(A=M36315)											
16	1	172165-45970	SPRING	1							
17	1	172458-46950	PLATE	1							
18	1	172458-47680	LEVER, LOCK	1							
18-1	1	172458-47680-1	LEVER, LOCK	1							S
(A=M/#32643)											
18-2	1	172458-47681	LOCK LEVER R(GRAY:49	1							F 1
(A=M36315)											
19	1	172458-47710	SHAFT ASSY	1							
20	1	194464-52190	SWITCH, SAFETY START	1							
21	1	22351-030032	PIN, SPRING 3.0X32	1							
22	1	22351-050032	PIN, SPRING 5.0X32	1							
23	1	24311-000210	O-RING, 1AP21.0	2							
24	1	26013-080162	BOLT, M8X 16	2							
25	1	26776-180002	NUT, LOCK M18	1							
26	1	194202-56460	BAND, 200	1							W
(A=M39172)											

Remarks
(1)A=REF.NO.18-1 M10 SCREW,
NO.18-2 NO SCREW.
INTERCHANGEABLE BY SIMULTANEOUS
REPLACEMENT WITH RE.NO.15-1.

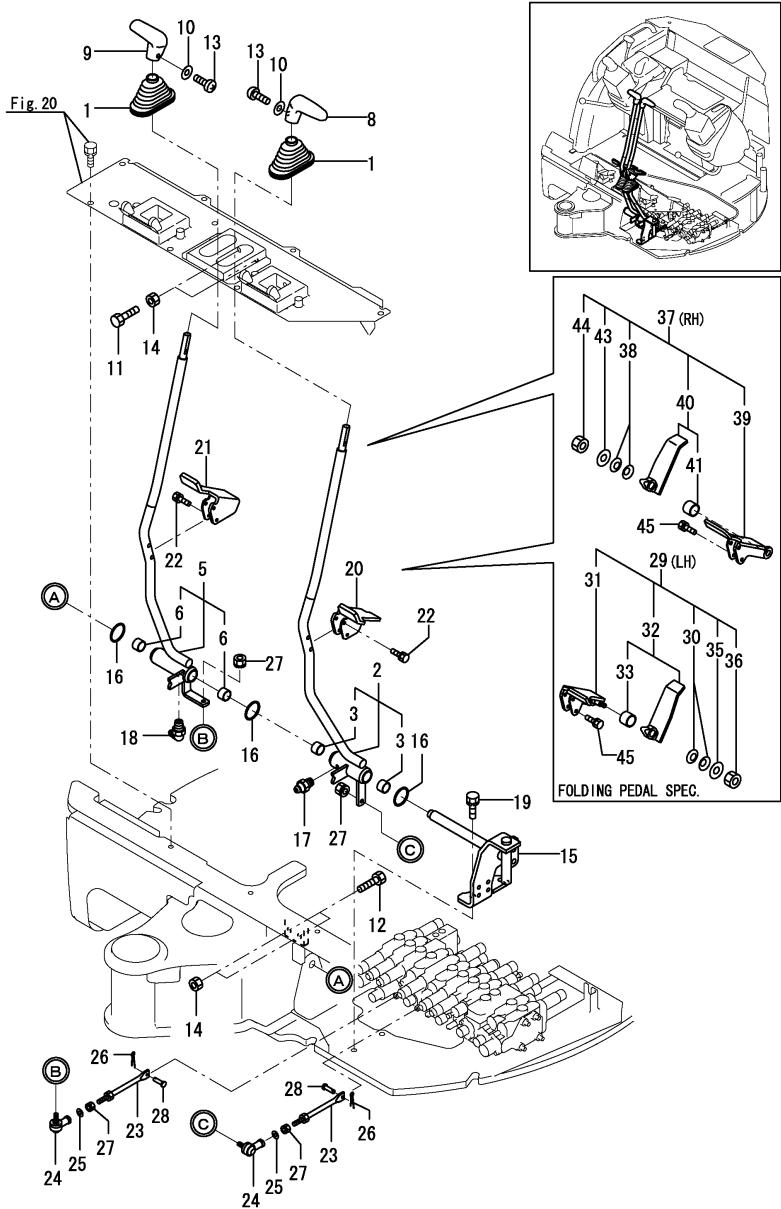
Fig.20. CONTROL EQUIPMENT(LOCK LEVER & STAND)(LEFT)



Remarks
(1)A=REF.NO.13-1 M10 SCREW,
NO.13-2 NO SCREW.
INTERCHANGEABLE BY SIMULTANEOUS
REPLACEMENT WITH RE.NO.1-1.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	1D4070-23580	GRIP	1							
1-1	1	172A77-46050	GRIP	1							S
(A=M36315)											
2	1	172458-45850	GUIDE, HOSE	1							
3	1	172124-46200	O-RING	2							
4	1	172472-46220	BRACKET ASSY	1							
5	1	172472-46600	STAND, LEVER	1							
6	2	172141-41370	BUSH 2015	2							
8	2	24550-025150	BUSH, 25X15	2							
9	1	172162-46690	SPRING	1							
10	1	172455-46890	SPRING, GAS	1							
11	1	172455-46950	BRACKET, SWITCH	1							
12	1	172165-47550	BUSH	1							
13	1	172472-47620	LEVER, LOCK	1							
13-1	1	172472-47620-1	LOCK LEVER L-US (49)	1							S
(A=M/#32643)											
13-2	1	172472-47621	LOCK LEVER ASSY,L(49)	1						F	1
(A=M36315)											
14	1	172458-47640	ROD ASSY, SPRING	1							
15	1	172165-47980	SHIM	2							
16	1	172165-47990	WASHER 25.5X42	1							
17	1	172472-64600	BRACKET, DAMPER	1							
18	1	22137-080000	WASHER, 8	2							
19	1	22137-080000	WASHER, 8	2							
20	1	22242-000250	RING, 25	1							
21	1	22272-000070	RING, E- 7	1							
22	1	22351-035040	PIN, SPRING 3.5X40	1							
23	1	22351-060040	PIN, SPRING 6.0X40	1							
24	1	22417-200200	PIN, COTTER 2.0X20	2							
25	1	24311-000340	O-RING, 1AP34.0	2							
26	1	24761-050000	NIPPLE, GREASE C	2							
27	1	26013-080162	BOLT, M8X 16	2							
28	1	26013-080202	BOLT, M8X 20	2							
29	1	26013-080202	BOLT, M8X 20	3							
30	1	26013-100202	BOLT, M10X 20	2							

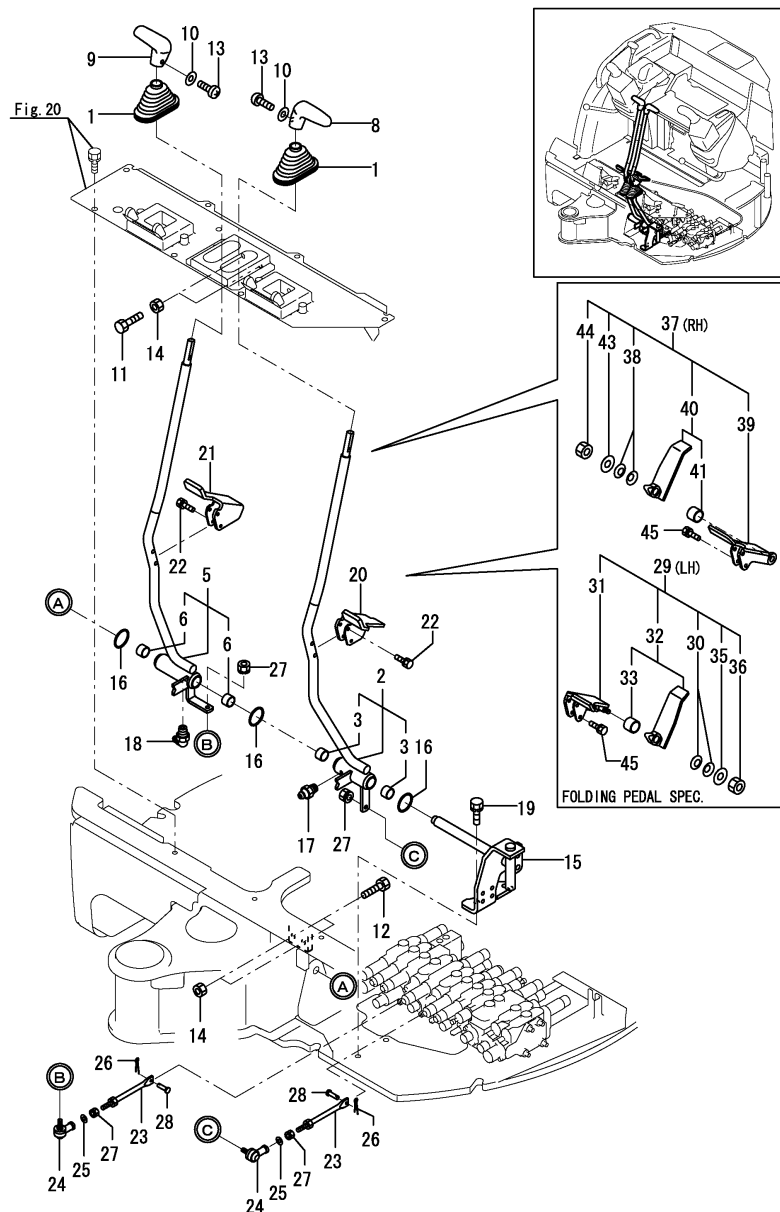
Fig.21. CONTROL EQUIPMENT(TRAVEL LEVER)



Remarks
(1)INTERCHANGEABLE BY SIMULTANEOUS
REPLACEMENT WITH REF.29,37,45.
(2)FOLDING PEDAL SPEC.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172141-41340	BOOTS	2							
2	1	172469-45100	LEVER, TRACK	1							
2-1	1	172469-45100-1	LEVER, TRACK	1							S
(A=M/#32643)											
3	2	172141-41370	BUSH 2015	2							
5	1	172469-45140	LEVER, TRACK	1							
5-1	1	172469-45140-1	LEVER, TRACK	1							S
(A=M/#32643)											
6	2	172141-41370	BUSH 2015	2							
8	1	172187-45870	GRIP, DRIVE	1							
9	1	172187-45880	GRIP, DRIVE	1							
10	1	22117-040000	WASHER, 4	2							
11	1	26116-100404	BOLT, M10X 40 PLATED	2							
12	1	26116-100604	BOLT, M10X 60 PLATED	2							
13	1	26587-040122	SCREW, M4X12	2							
14	1	26716-100002	NUT, M10	4							
15	1	172472-45661	BRACKET ASSY, TRACK	1							
15-1	1	172472-45661-1	BRACKET ASSY, TRACK	1							S
(A=M/#32643)											
16	1	172124-46200	O-RING	3							
17	1	24761-020000	NIPPLE, GREASE PT1/8	1							
18	1	24761-050000	NIPPLE, GREASE C	1							
19	1	26013-100252	BOLT, M10X 25	2							
20	1	172472-45600	PEDAL, TRACK	1							1
20-1	1	172472-45600-1	PEDAL L,TRACK F (49)	1							S 1
(A=M/#32643)											
21	1	172472-45620	PEDAL, TRACK	1							1
21-1	1	172472-45620-1	PEDAL R,TRACK F (49)	1							S 1
(A=M/#32643)											
22	1	26013-060352	BOLT, M6X 35	4							
23	1	172458-45250	ROD 91 ASSY	2							
24	1	172122-46590	ELBOW	2							
25	1	22117-080000	WASHER, 8	2							
26	1	22417-160160	PIN, COTTER 1.6X16	2							
27	1	26051-080002	NUT, M8	4							
28	1	933110-54100	PIN 4.75X14	2							
29	1	172472-45601	PEDAL, TRACK	1							W 2
(A=M/#31024)											
29-1	1	172472-45601-1	PEDAL, TRACK	1							S 2
(A=M/#32643)											
30	2	172068-28490	SPRING	2							
31	2	172472-45720	PEDAL FL ASSY, TRACK	1							
32	2	172472-45810	PEDAL, TRACK	1							
32-1	2	172472-45810-1	PEDAL, TRACK	1							S
(A=M/#32643)											
33	3	172110-45050	BUSH 12X12	1							
35	2	22137-080000	WASHER, 8	1							
36	2	26347-080002	NUT, M8	1							
37	1	172472-45621	PEDAL, TRACK	1							W 2
(A=M/#31024)											
37-1	1	172472-45621-1	PEDAL, TRACK	1							S 2

Fig.21. CONTROL EQUIPMENT(TRAVEL LEVER)



(1)INTERCHANGEABLE BY SIMULTANEOUS REPLACEMENT WITH REF.29,37,45.
(2)FOLDING PEDAL SPEC.

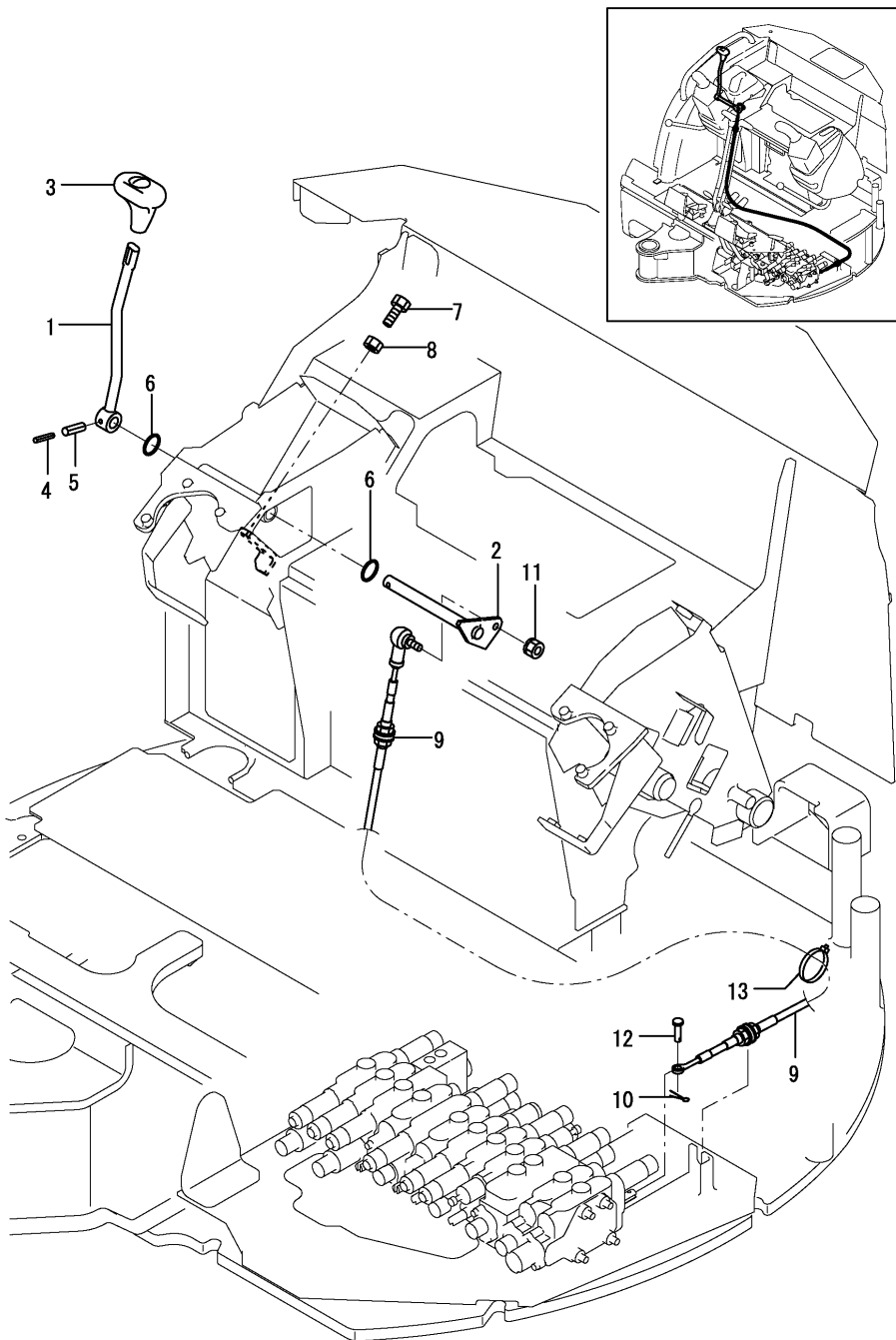
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
(A=M/#32643)											
38	2	172068-28490	SPRING	2							
39	2	172472-45730	PEDAL FR ASSY, TRACK	1							
40	2	172472-45850	PEDAL, TRACK	1							
40-1	2	172472-45850-1	PEDAL, TRACK	1							S
(A=M/#32643)											
41	3	172110-45050	BUSH 12X12	1							
43	2	22137-080000	WASHER, 8	1							
44	2	26347-080002	NUT, M8	1							
45	1	26013-060302	BOLT, M6X 30	4							

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

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Fig.22. CONTROL EQUIPMENT(BLADE LEVER)

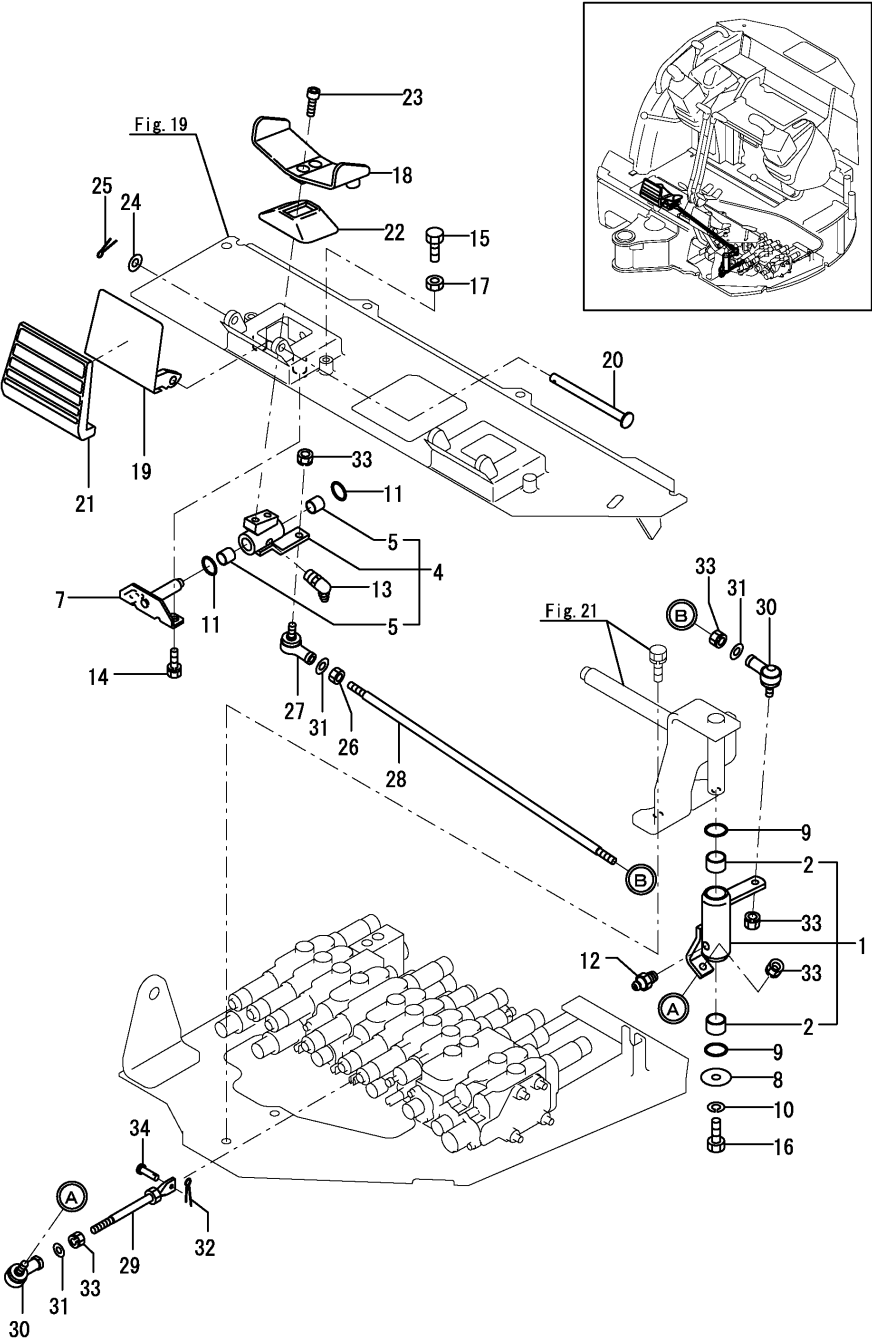


(A)=VIO20-3(KR)
(B)=
(C)=

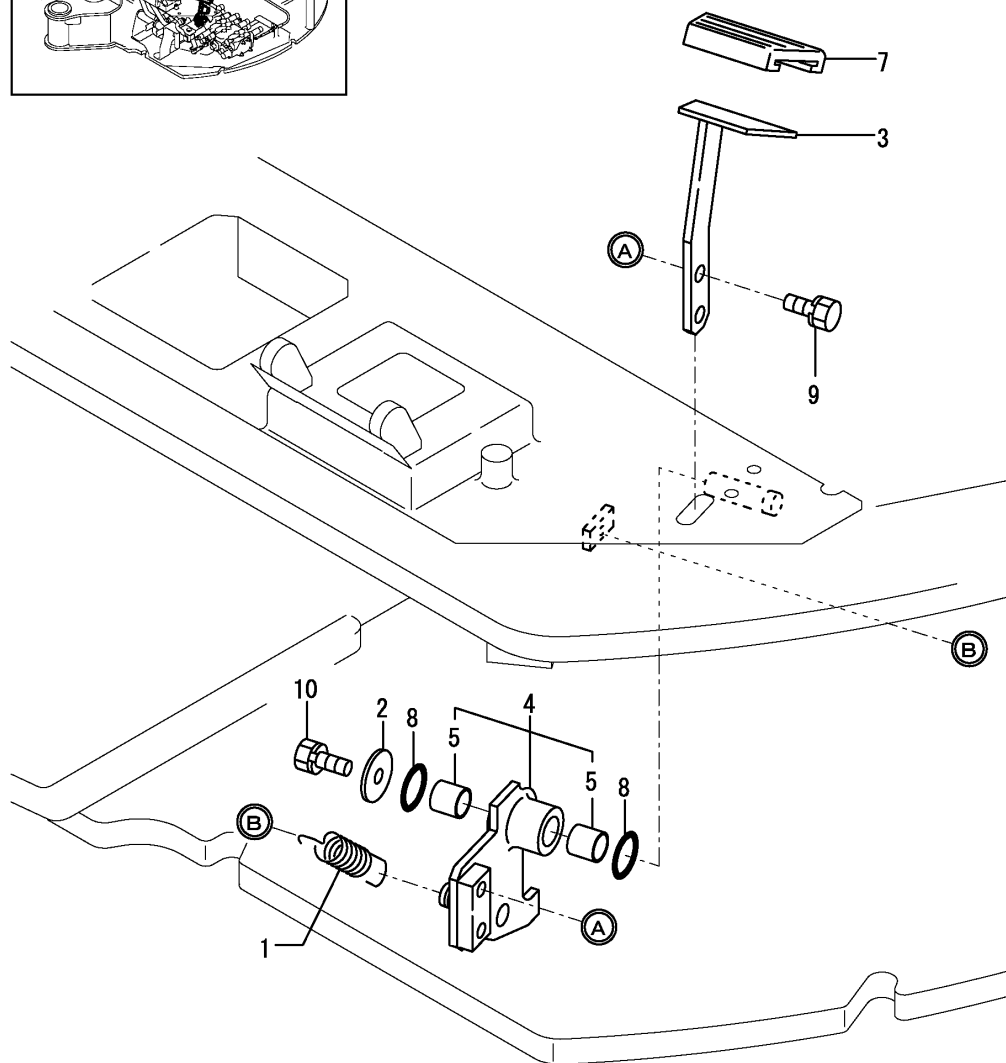
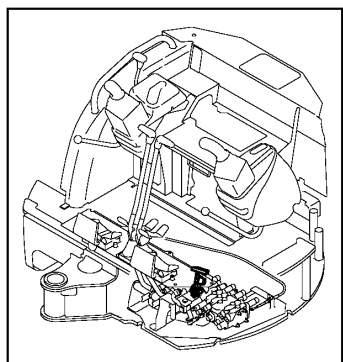
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172472-45700	LEVER, BLADE	1							
1-1	1	172472-45700-1	LEVER, BLADE (GRAY:49)	1							S
		(A=M/#32643)									
2	1	172458-45720	SHAFT ASSY	1							
2-1	1	172458-45720-1	SHAFT ASSY	1							S
		(A=M/#32643)									
3	1	172164-45970	GRIP, BLADE	1							
4	1	22351-030032	PIN, SPRING 3.0X32	1							
5	1	22351-050032	PIN, SPRING 5.0X32	1							
6	1	24311-000210	O-RING, 1AP21.0	2							
7	1	26116-080254	BOLT, M8X 25 PLATED	2							
8	1	26716-080002	NUT, M8	2							
9	1	172458-45800	CABLE, BLADE	1							
10	1	22417-160160	PIN, COTTER 1.6X16	1							
11	1	26051-080002	NUT, M8	1							
12	1	933110-54100	PIN 4.75X14	1							
13	1	933168-55770	BAND 146	1							

Fig.23. CONTROL EQUIPMENT(SWING PEDAL)

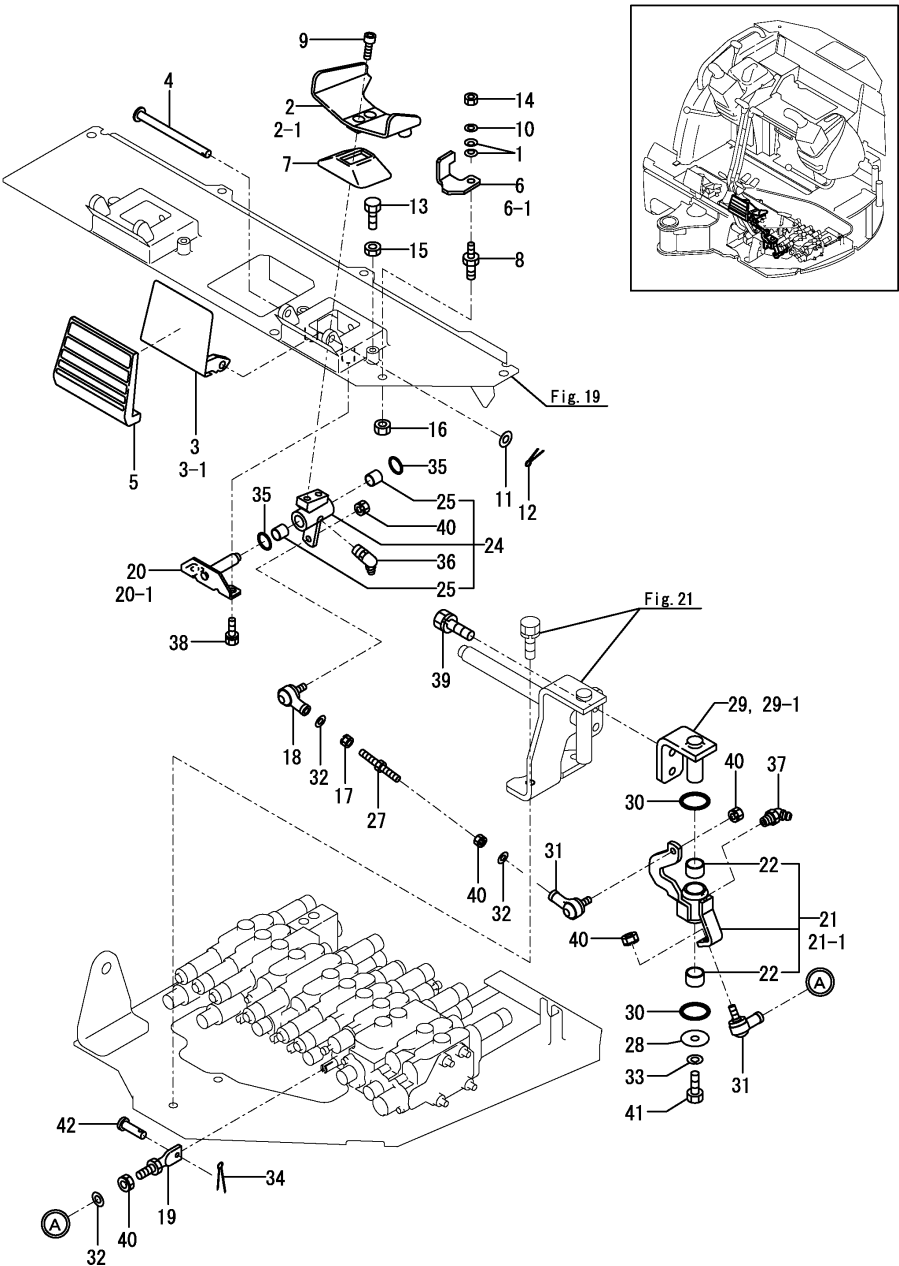


0CS10-M46401 Fig.23													
(A)=VIO20-3(KR)													
(D)=													
(E)=													
(F)=													
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R		
1	1	172458-45180	LINK, SWING	1									
1-1	1	172458-45180-1	LINK, SWING	1							S		
(A=M/#32643)													
2	2	172141-41370	BUSH 2015	2									
4	1	172458-45200	LINK, PEDAL	1									
4-1	1	172458-45200-1	LINK, PEDAL	1							S		
(A=M/#32643)													
5	2	172141-41360	BUSH 1415	2									
7	1	172458-45230	SHAFT, PEDAL	1									
7-1	1	172458-45230-1	SHAFT, PEDAL	1							S		
(A=M/#32643)													
8	1	1A1040-45890	WASHER, 10X36X4.5	1									
9	1	172124-46200	O-RING	2									
10	1	22217-100000	WASHER, SPRING 10	1									
11	1	24311-000210	O-RING, 1AP21.0	2									
12	1	24761-020000	NIPPLE, GREASE PT1/8	1									
13	1	24761-040000	NIPPLE, GREASE B	1									
14	1	26013-080162	BOLT, M8X 16	2									
15	1	26116-080254	BOLT, M8X 25 PLATED	2									
16	1	26116-100202	BOLT, M10X 20 PLATED	1									
17	1	26716-080002	NUT, M8	2									
18	1	172458-45521	PEDAL, SWING	1									
18-1	1	172458-45521-1	PEDAL, SWING	1							S		
(A=M/#32643)													
19	1	172458-45540	COVER, PEDAL	1									
19-1	1	172458-45540-1	COVER, PEDAL	1							S		
(A=M/#32643)													
20	1	172187-45651	SHAFT	1									
21	1	172187-45760	COVER PAD	1									
22	1	172157-45990	BOOTS, PEDAL	1									
23	1	172165-46340	BOLT	2									
24	1	22137-100000	WASHER, 10	1									
25	1	22417-250200	PIN, COTTER 2.5X20	1									
26	1	194200-37780	NUT, M8	1									
27	1	172734-41300	JOINT, BALL	1									
27-1	1	1E6740-64200	BALL BL8DL, LINK	1							R		
(A=M35718)													
28	1	172456-45160	LOD,SWING	1									
29	1	172823-45940	ROD 130 COMP.	1									
30	1	172122-46590	ELBOW	2									
31	1	22117-080000	WASHER, 8	3									
32	1	22417-160160	PIN, COTTER 1.6X16	1									
33	1	26051-080002	NUT, M8	5									
34	1	933110-54100	PIN 4.75X14	1									



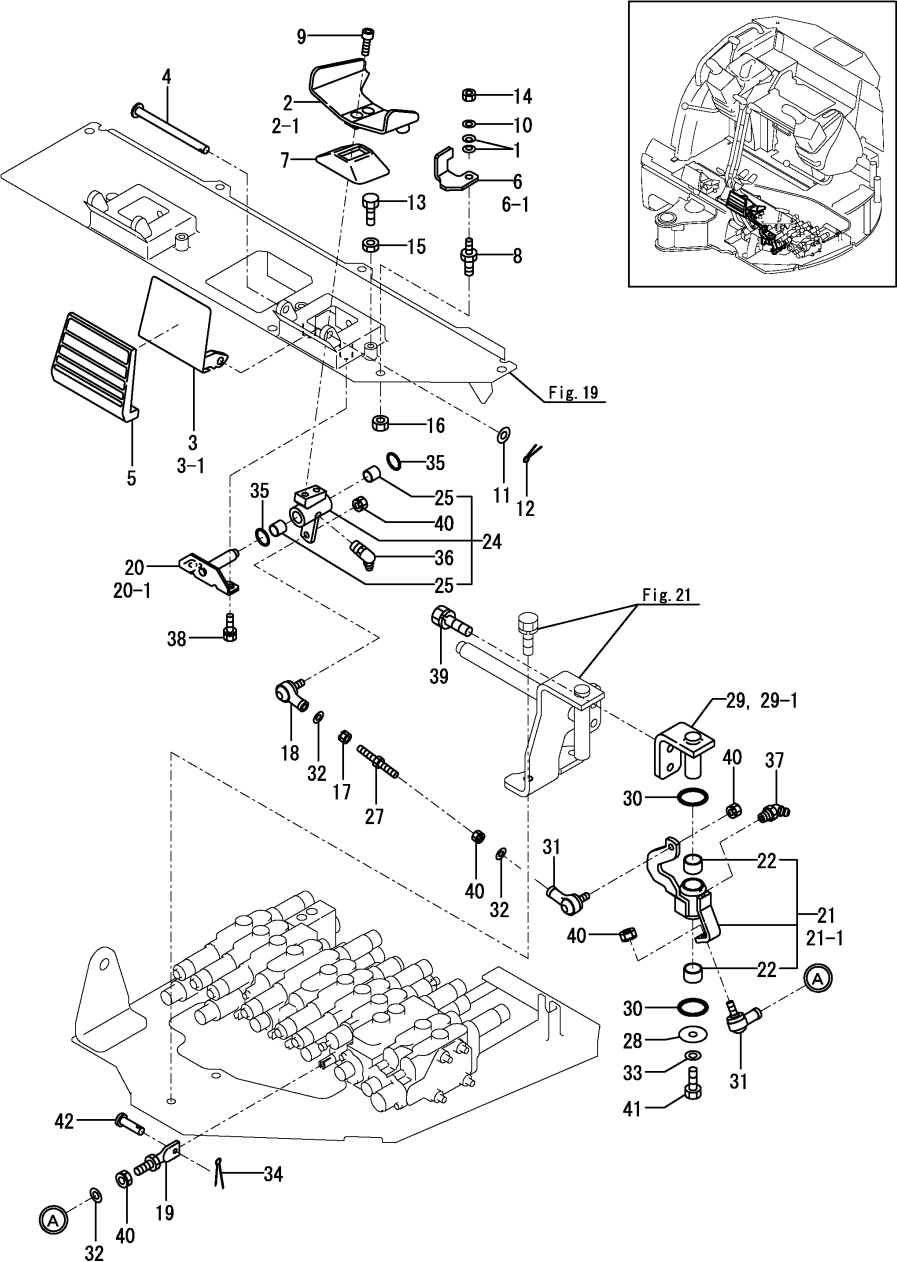
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172162-12480	SPRING, RETURN	1							
2	1	1A1040-43900	WASHER, SPRING	1							
3	1	172487-45900	PEDAL, LOW-HIGH	1							
3-1	1	172487-45900-1 (A=M#32643)	PEDAL, LOW-HIGH	1							S
4	1	172458-45920	BRACKET, PEDAL	1							
4-1	1	172458-45920-1 (A=M#32643)	BRACKET, PEDAL	1							S
5	2	172141-41360	BUSH 1415	2							
7	1	172458-45950	PAD, PEDAL	1							
8	1	24311-000210	O-RING, 1AP21.0	2							
9	1	26013-080162	BOLT, M8X 16	2							
10	1	26013-080202	BOLT, M8X 20	1							

Fig.25. CONTROL EQUIPMENT(P.T.O. PEDAL)

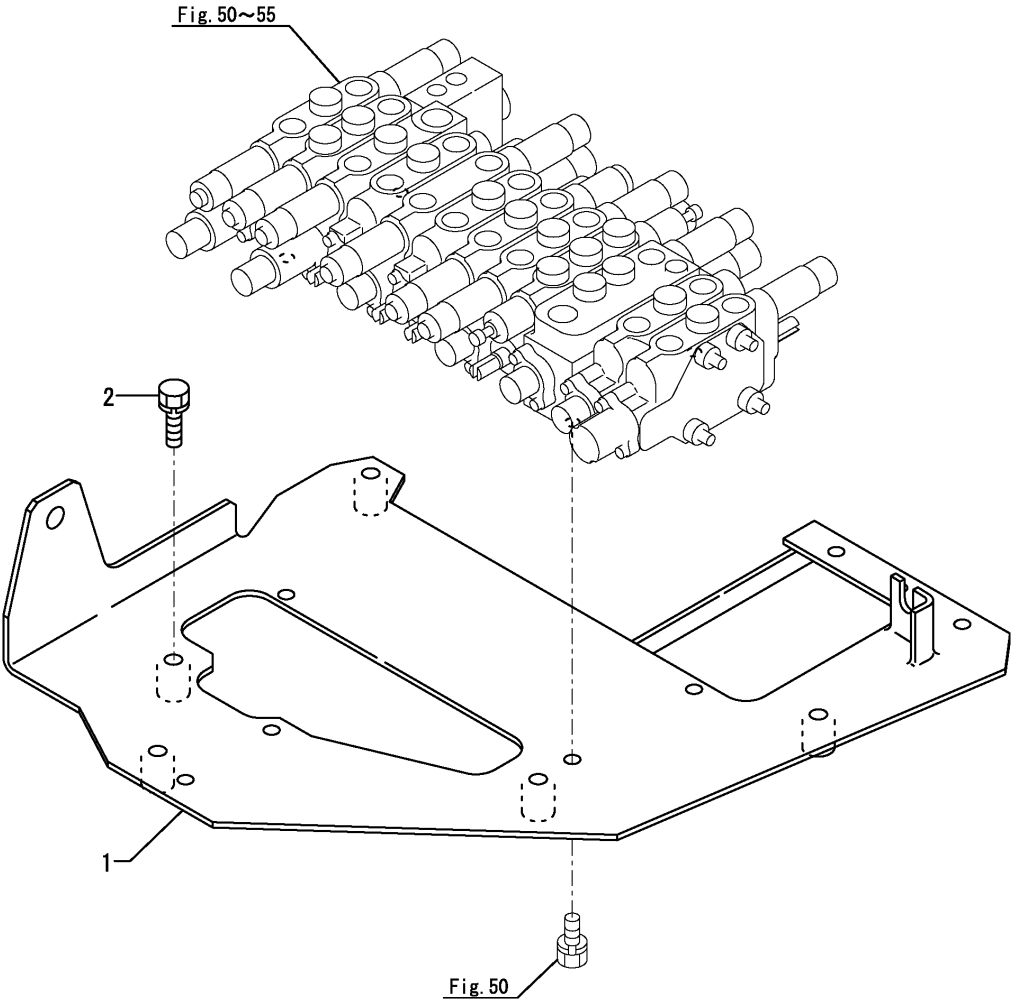


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172068-28490	SPRING, SCREW 8	2							
2	1	172472-45500	PEDAL ASSY, PTO	1							
2-1	1	172472-45500-1	PEDAL ASSY, PTO	1							S
(A=M/#32643)											
3	1	172458-45540	COVER ASSY, PEDAL	1							
3-1	1	172458-45540-1	COVER ASSY, PEDAL	1							S
(A=M/#32643)											
4	1	172187-45651	SHAFT, PEDAL COVER	1							
5	1	172187-45760	PAD	1							
6	1	172448-45800	PLATE, LOCK	1							
6-1	1	172448-45800-3	PLATE, PTO LOCK	1							S
(A=M/#32643)											
7	1	172157-45990	BOOT, PEDAL	1							
8	1	172462-46230	BOLT, 8X10	1							
9	1	172165-46340	BOLT, HEX SOCKET M8	2							
10	1	22137-080000	WASHER, 8	1							
11	1	22137-100000	WASHER, 10	1							
12	1	22417-250200	PIN, COTTER 2.5X20	1							
13	1	26116-080254	BOLT, M8X 25 PLATED	2							
14	1	26347-080002	NUT, M8	1							
15	1	26716-080002	NUT, M8	2							
16	1	26757-100002	NUT, LOCK M10	1							
17	1	194200-37780	NUT, M8	1							
18	1	172734-41300	JOINT, BALL	1							
18-1	1	1E6740-64200	BALL, LINK BL8DL	1							R
(A=M35718)											
19	1	172823-45000	ROD, SPOOL 54	1							
20	1	172458-45230	SHAFT ASSY, PEDAL	1							
20-1	1	172458-45230-1	SHAFT ASSY, PEDAL	1							S
(A=M/#32643)											
21	1	172472-45300	LINK ASSY, PTO A	1							
21-1	1	172472-45300-1	LINK ASSY, PTO A	1							S
(A=M/#32643)											
22	2	172141-41370	BUSH, 20 15	2							
24	1	172472-45330	LINK ASSY, PTO B	1							
25	2	172141-41360	BUSH	2							
27	1	172469-45360	ROD, 77	1							
28	1	1A1040-45890	WASHER, 10X36X4.5	1							
29	1	172458-46150	BRACKET, PTO	1							
29-1	1	172458-46150-1	BRACKET, PTO	1							S
(A=M/#32643)											
30	1	172124-46200	O-RING, 27.6X5.7	2							
31	1	172122-46590	ELBOW, 8	2							
32	1	22117-080000	WASHER, 8	3							
33	1	22217-100000	WASHER, SPRING 10	1							
34	1	22417-160160	PIN, COTTER 1.6X16	1							
35	1	24311-000210	O-RING, 1AP21.0	2							
36	1	24761-040000	NIPPLE, GREASE B	1							
37	1	24761-050000	NIPPLE, GREASE C	1							
38	1	26013-080162	BOLT, M8X 16	2							
39	1	26013-100202	BOLT, M10X 20	2							

0CS10-M46401 CONTROL EQUIPMENT
Fig.25. CONTROL EQUIPMENT(P.T.O. PEDAL)



0CS10-M46401 Fig.25											
(A)=VIO20-3(KR)											
(B)=											
(C)=											
(D)=											
(E)=											
(F)=											
Q'ty											
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
40	1	26051-080002	NUT, M8	5							
41	1	26116-100202	BOLT, M10X 20 PLATED	1							
42	1	933110-54100	PIN, 4.75X14	1							



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

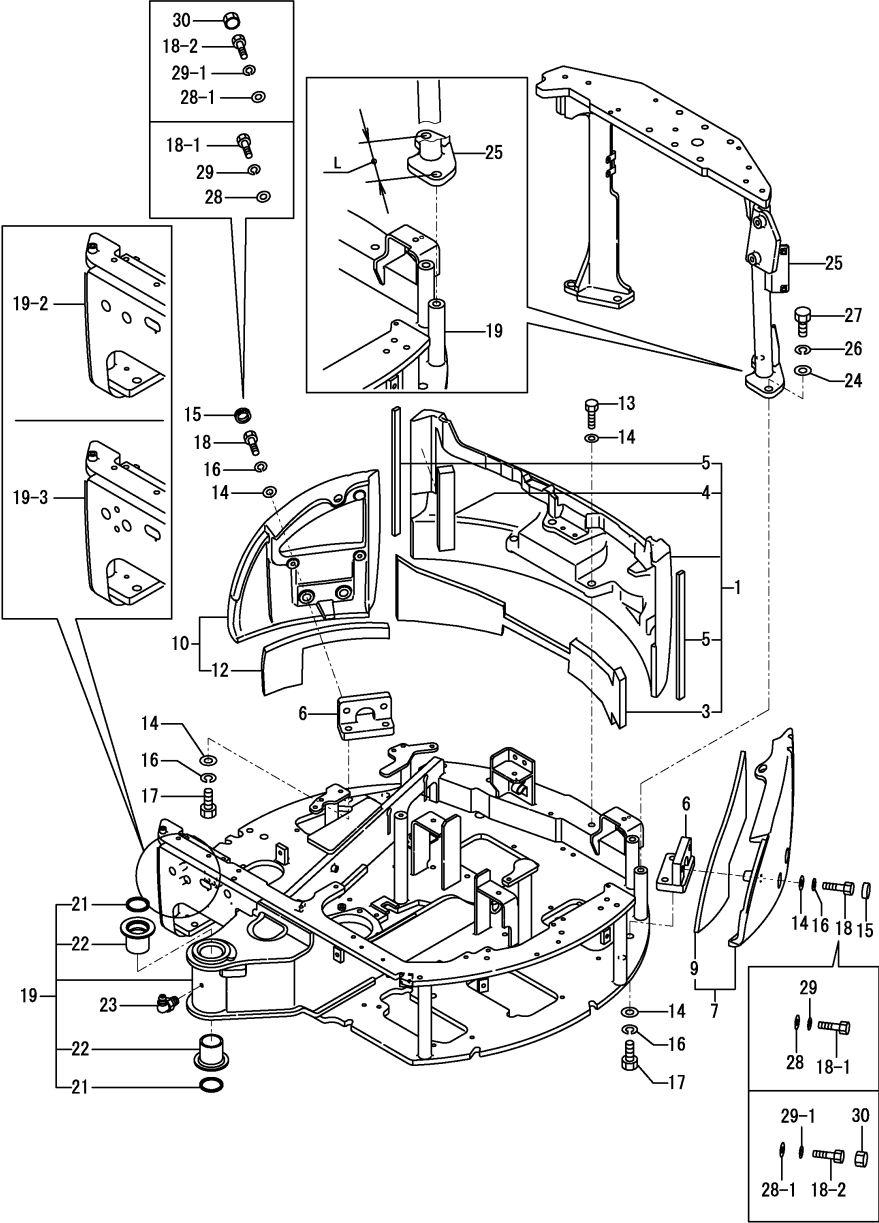
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172487-45600	PLATE, VALVE	1							
1-1	1	172487-45600-1	PLATE, VALVE	1						S	
(A=M/#32643)											
2	1	26013-100402	BOLT, M10X 40	5							

Fig.27. TURNING FRAME

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

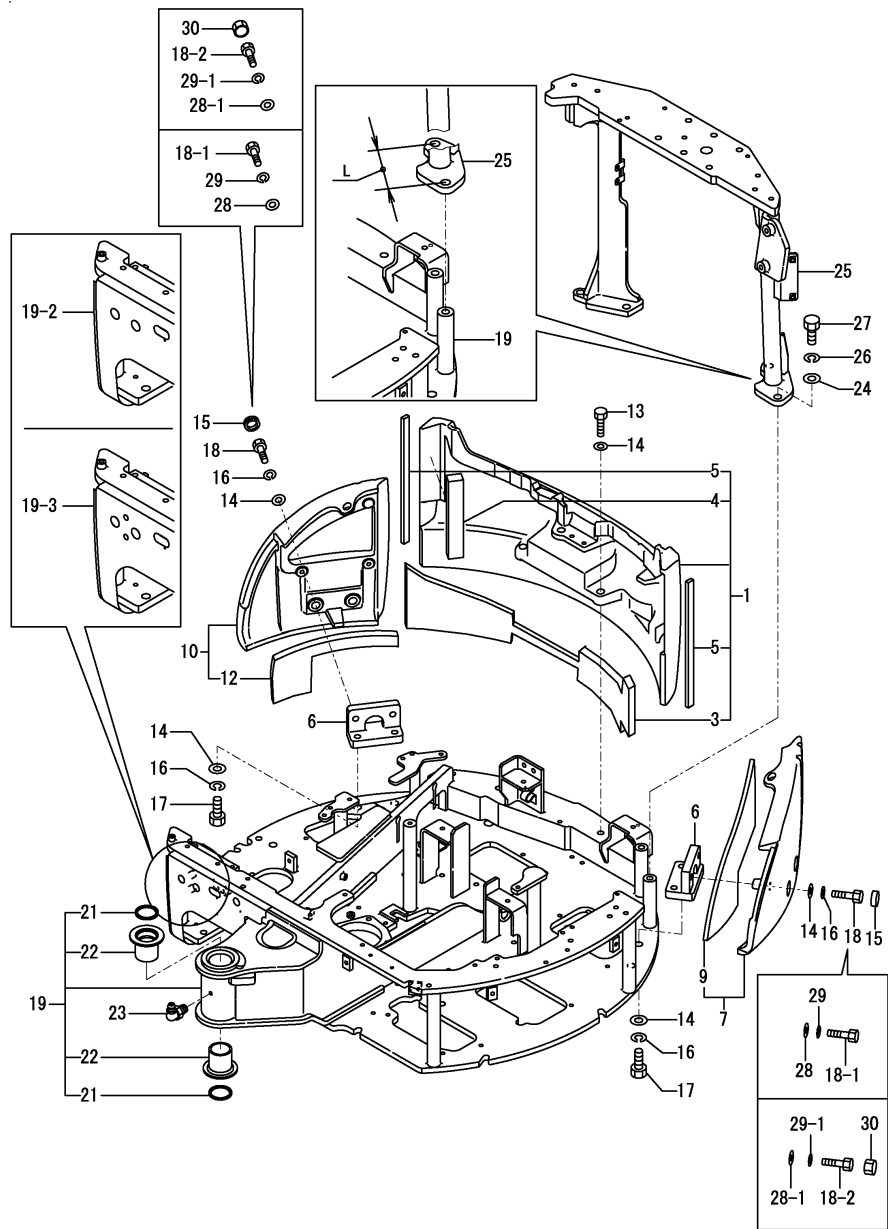
(D)=
(E)=
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172487-53300-1	WEIGHT, COUNTER	1							
1-1	1	172487-53300-2	WEIGHT, COUNTER	1						S	1
(A=M/#32643)											
3	2	172487-53320	SEAL A	1							
4	2	172487-53330	SEAL	1							
5	2	172458-53370	SEAL, COUNTER	2							
6	1	172458-53330	BRACKET ASSY	2							
7	1	172487-53350-1	WEIGHT	1							
7-1	1	172487-53350-2	WEIGHT	1							S
(A=M/#32643)											
9	2	172487-53370	SEAL C	1							
10	1	172487-53400-1	WEIGHT ASSY	1							
10-1	1	172487-53400-2	WEIGHT ASSY	1							S
(A=M/#32643)											
12	2	172487-53420	SEAL D	1							
13	1	172165-53480	BOLT	2							
14	1	172165-53500	WASHER	10							
14-1	1	172165-53500	WASHER	6							K
(A=M46206)											
15	1	172456-53700	GROMMET	4							Z
(A=M46206)											
16	1	22217-160000	WASHER, SPRING 16	8							
16-1	1	22217-160000	WASHER, SPRING 16	4							K
(A=M46206)											
17	1	26116-160452	BOLT, M16X 45 PLATED	4							
18	1	26116-160652	BOLT, M16X 65 PLATED	4							
18-1	1	172A23-53250	BOLT, M16X65	4							N
(A=M46206)											
18-2	1	26116-160652	BOLT, M16X 65 PLATED	4							S
(A=*2015.01)											
19	1	172A23-54100-1	FRAME ASSY, TURNING	1							
19-1	1	172A23-54100-2	FRAME ASSY, TURNING	1							S
(A=M/#32643)											
19-2	1	172A23-54101	FRAME ASSY,TURNING	1							S 1
(A=M36240)											
19-3	1	172A23-54102	FRAME ASSY,TURNING	1							S
(A=M45001)											
19-4	1	172A23-54103	FRAME ASSY,TURNING	1							N
(A=M45019)											
21	2	172448-54120	SEAL, DUST	2							
22	2	172171-54750	BUSH 50X65	2							
23	1	24761-040000	NIPPLE, GREASE B	1							
24	1	172165-53500	WASHER	4							
25	1	172A23-67210	MOUNT, CANOPY	1							
25-1	1	172A23-67210-1	MOUNT, CANOPY	1							S
(A=M/#32643)											
26	1	22217-160000	WASHER, SPRING 16	4							
27	1	26116-160452	BOLT, M16X 45 PLATED	4							
28	1	172A23-53260	WASHER, 16.5X35	4							W
(A=M46206)											
28-1	1	172165-53500	WASHER	4							S

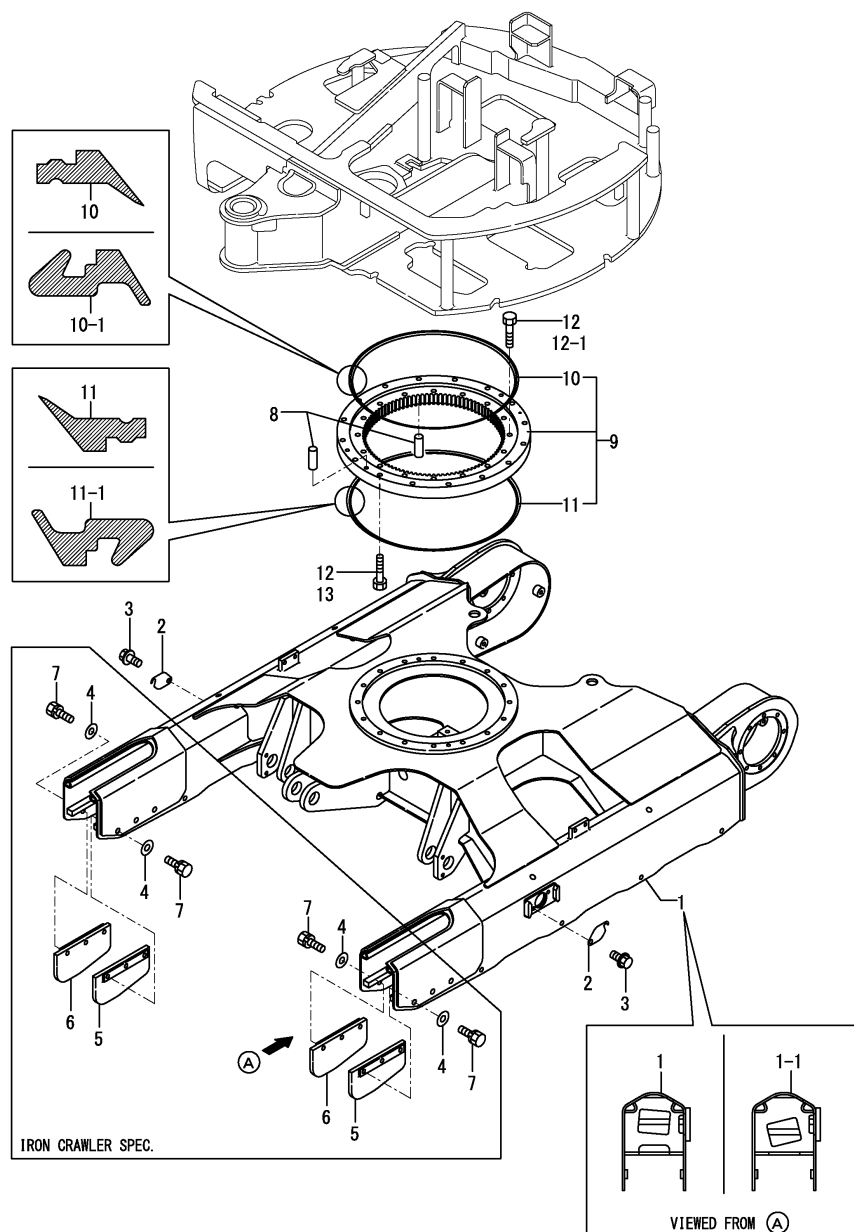
Remarks
(1)REF.NO.19-1 & 25-1 L=143.45MM,
REF.NO.19-2 & 25-2 L=135.23MM.

OCS10-M46401 FRAME
Fig.27. TURNING FRAME



Remarks
(1)REF.NO.19-1 & 25-1 L=143.45MM,
REF.NO.19-2 & 25-2 L=135.23MM.

OCS10-M46401										Fig.27	
(A)=VIO20-3(KR)										(D)=	
(B)=										(E)=	
(C)=										(F)=	
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
29	(A=*2015.01) 1	172A23-53270	WASHER, SPRING	4							W
29-1	(A=M46206) 1	22217-160000	WASHER, SPRING 16	4							S
30	(A=*2015.01) 1	172A23-53280	CAP,M16	4							W
(A=*2015.01)											

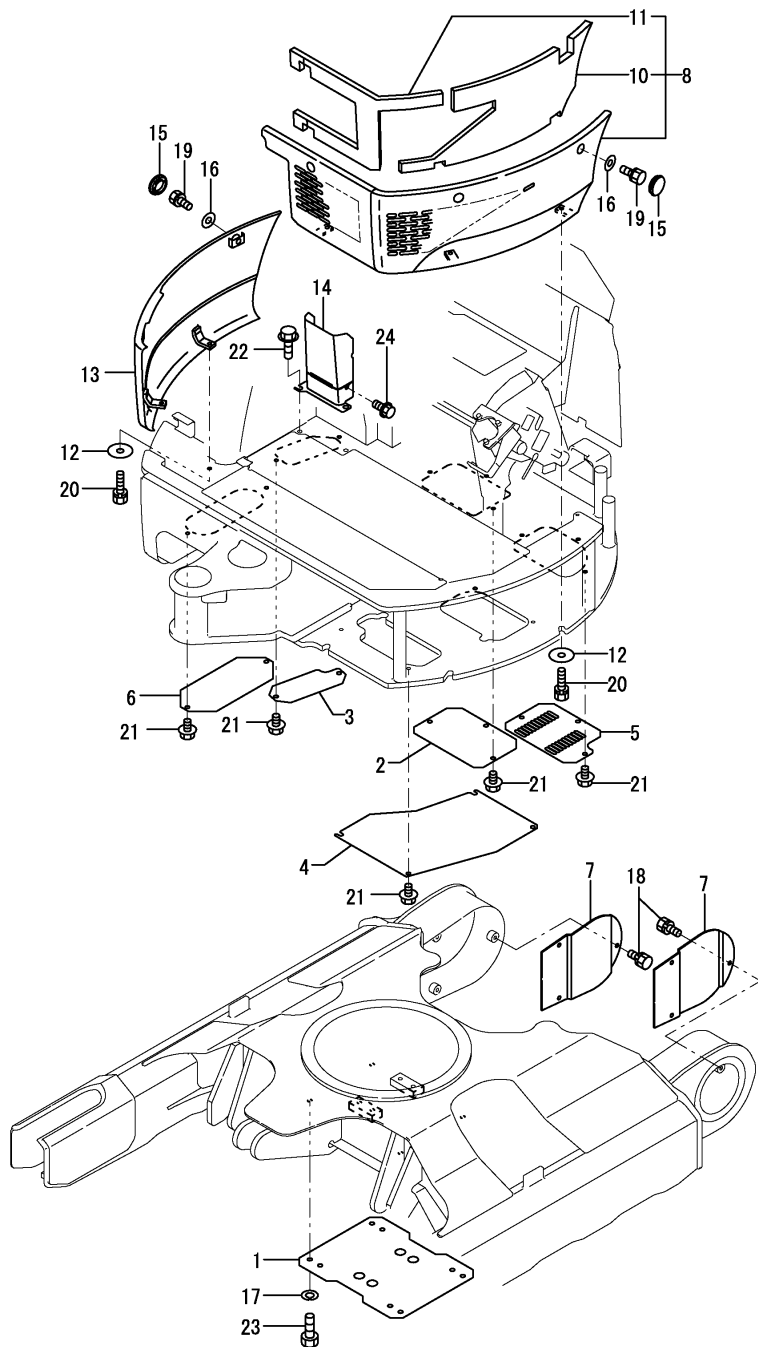


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-50102-1	FRAME ASSY, LOWER	1							
1-1	1	172456-50103-2	FRAME,LOWER (82)	1							S
(A=M/#32563)											
1-2	1	172456-50103-1	FRAME ASSY, LOWER	1							S
(A=M/#32643)											
1-3	1	172456-50104-1	FRAME ASSY,LOWER(49)	1							N
(A=M34222)											
1-4	1	172456-50105	FRAME ASSY,LOWER	1							N
(A=M45001)											
2	1	172458-50480-1	COVER, FRAME	2							
2-1	1	172458-50480-2	COVER, FRAME	2							S
(A=M/#32643)											
3	1	26106-100122	BOLT, M10X 12 PLATED	4							
4	1	172730-05250	WASHER	12							1
5	1	172456-50800-1	GUARD, SHOE	2							1
5-1	1	172456-50800-2	GUARD, SHOE	2							S 1
(A=M/#32643)											
6	1	172456-50830-1	GUARD, SHOE	2							1
6-1	1	172456-50830-2	GUARD, SHOE	2							S 1
(A=M/#32643)											
7	1	26013-120352	BOLT, SPRING M12X 35	12							1
8	1	194940-24350	PIN, PARALLEL 10X28	3							
9	1	172456-57600	BEARING,TURNING	1							
9-1	1	172456-57601	BEARING,SWING	1							N
(A=M3G542)											
10	2	172183-57620	SEAL, TURNING	1							
10-1	2	172B57-57620	SEAL, A	1							S
(A=M3G542)											
11	2	172183-57630	SEAL, TURNING	1							
11-1	2	172B57-57630	SEAL, B	1							S
(A=M3G542)											
12	1	172141-57650	BOLT M12X 55 PLATED	32							
12-1	1	172141-57650	BOLT M12X 55 PLATED	16							K
(A=M36027)											
13	1	172A23-57650	BOLT 10.9 12X55	16							W
(A=M36027)											

Remarks
(1)IRON CRAWLER SPEC.

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.29. COVER(FRAME)



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172141-50762-2	COVER	1							
1-1	1	172141-50762-3	COVER	1							S
(A=M/#32643)											
1-2	1	172141-50763-1	COVER	1							N
(A=M45001)											
2	1	172456-61100-1	COVER	1							
2-1	1	172456-61100-2	COVER	1							S
(A=M/#32643)											
3	1	172456-61110-1	COVER	1							
3-1	1	172456-61110-2	COVER	1							S
(A=M/#32643)											
4	1	172458-61110-1	COVER, VALVE	1							
4-1	1	172458-61110-2	COVER, VALVE	1							S
(A=M/#32643)											
5	1	172456-61130-1	PLATE, PUMP	1							
5-1	1	172456-61130-2	PLATE, PUMP	1							S
(A=M/#32643)											
6	1	172458-61150-2	COVER, FUEL	1							
6-1	1	172458-61150-3	COVER, FUEL	1							S
(A=M/#32643)											
7	1	172173-61190-2	COVER, TRAVEL	2							
7-1	1	172173-61190-3	COVER, TRAVEL	2							S
(A=M/#32643)											
7-2	1	172173-61191	COVER, TRAVEL	2							N
(A=M45001)											
8	1	172A23-61200-1	COVER, FRAME	1							
8-1	1	172A23-61200-2	COVER, FRAME	1							S
(A=M/#32643)											
10	2	172487-61240	SEAL, COVER	1							
11	2	172456-61310	SPONGE	1							
12	1	172458-61261	WASHER	5							
13	1	172456-61270-1	COVER, FRAME	1							
13-1	1	172456-61270-2	COVER, FRAME	1							S
(A=M/#32643)											
14	1	172A36-61410	PLATE ASSY	1							
15	1	172463-61600	PLUG 28X3.2	5							
15-1	1	172A21-61600	PLUG 28X3.2	5							S
(A=M32643)											
16	1	22137-100000	WASHER, 10	5							
17	1	22217-120000	WASHER, SPRING 12	4							
18	1	26013-100202	BOLT, M10X 20	6							
19	1	26013-100202	BOLT, M10X 20	5							
20	1	26013-100352	BOLT, M10X 35	5							
21	1	26106-100162	BOLT, M10X 16 PLATED	14							
22	1	26106-100202	BOLT, M10X 20 PLATED	2							
22-1	1	26106-100162	BOLT, M10X 16 PLATED	2							N
(A=MXXXXXX)											
23	1	26116-120252	BOLT, M12X 25 PLATED	4							
24	1	26106-100162	BOLT, M10X 16 PLATED	1							W
(A=MXXXXXX)											

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

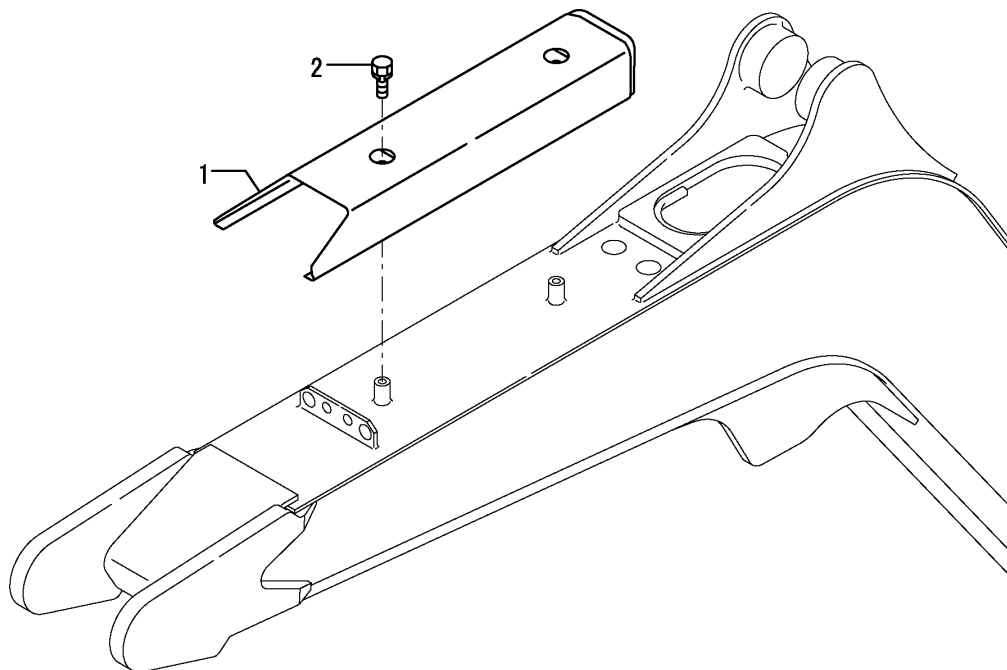
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Fig.30. COVER(AROUND THE CONTROL)

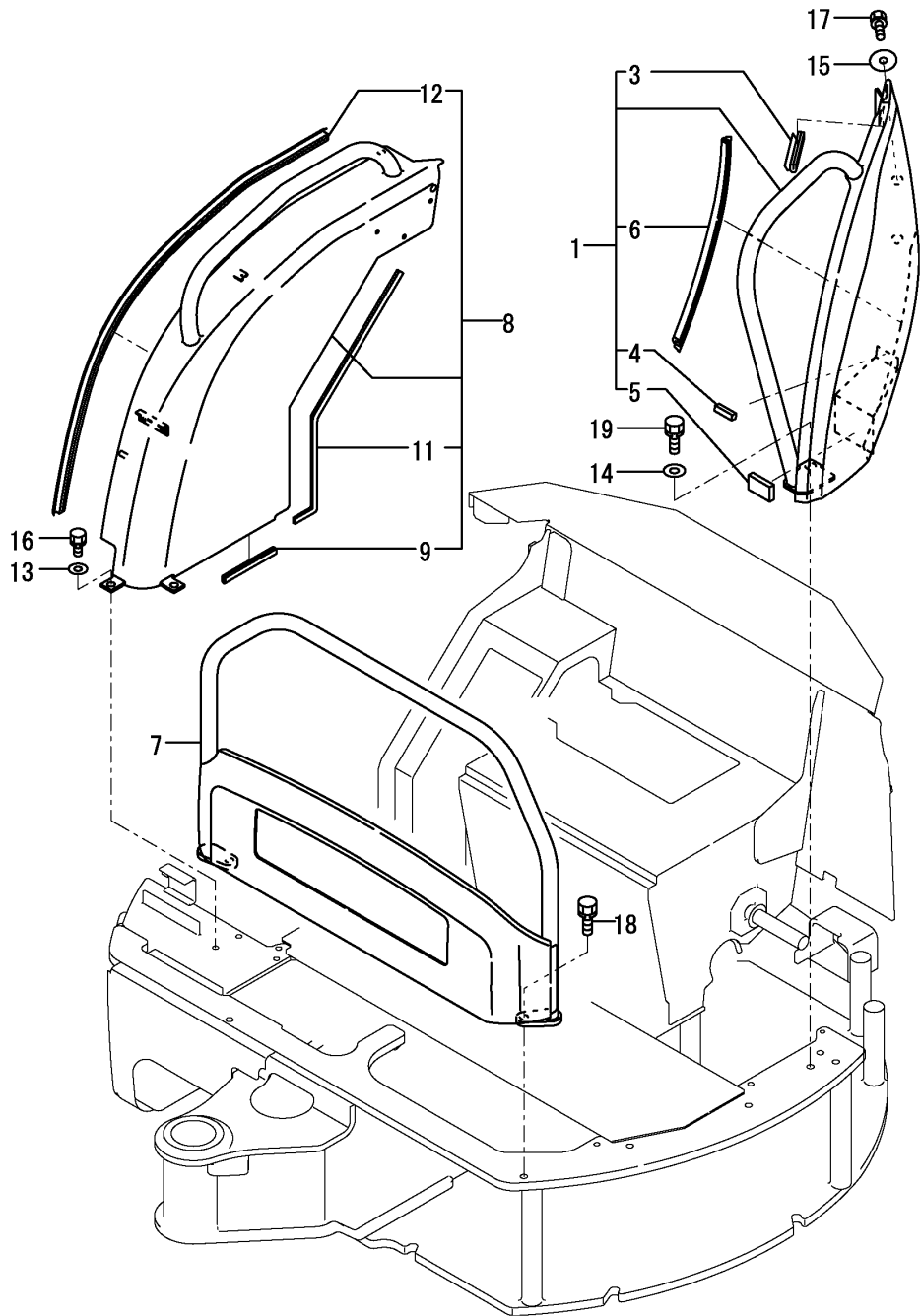
(A)=VIO20-3(KR)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172146-41320	GROMMET	1							
2	1	172456-61151	COVER ASSY, MULTI	1							
2-1	1	172456-61152	COVER ASSY, MULTI	1							N
(A=M/#31760)											
2-2	1	172456-61152-1	COVER ASSY, MULTI	1							S
(A=M/#32643)											
2-3	1	172456-61153	COVER ASSY, MULTI	1							N
(A=M45001)											
4	2	172164-61250	RUBBER, SEAL	1							
5	2	172456-61340	RUBBER, SEAL 105	1							
6	2	172456-61350	SPONGE	1							
7	2	172456-61360	SPONGE	1							
8	2	172146-61370	RUBBER, SEAL	1							
10	2	172171-65850	RUBBER, SEAL	1							
11	2	172164-66800	RUBBER, SEAL 60	1							
12	1	172458-61300	GROMMET	1							
13	1	172142-62300	WING BOLT M10X15	1							
13-1	1	172142-62301	WING BOLT,M10X20	1							N
(A=M35780)											
14	1	172456-64640	COVER, ELECTRIC	1							
15	1	22137-100000	WASHER, 10	2							
16	1	22217-060000	WASHER, SPRING 6	3							
17	1	22417-320200	PIN, COTTER 3.2X20	1							
18	1	26013-100202	BOLT, M10X 20	2							
19	1	26116-060122	BOLT, M6X 12 PLATED	3							
20	1	22117-100000	WASHER, 10	1							W
(A=MXXXXX)											
20-1	1	22133-100000	WASHER, 10	1							N
(A=M37415)											

[illegible]

0CS10-M46401 COVER
Fig.32. COVER(CANOPY)

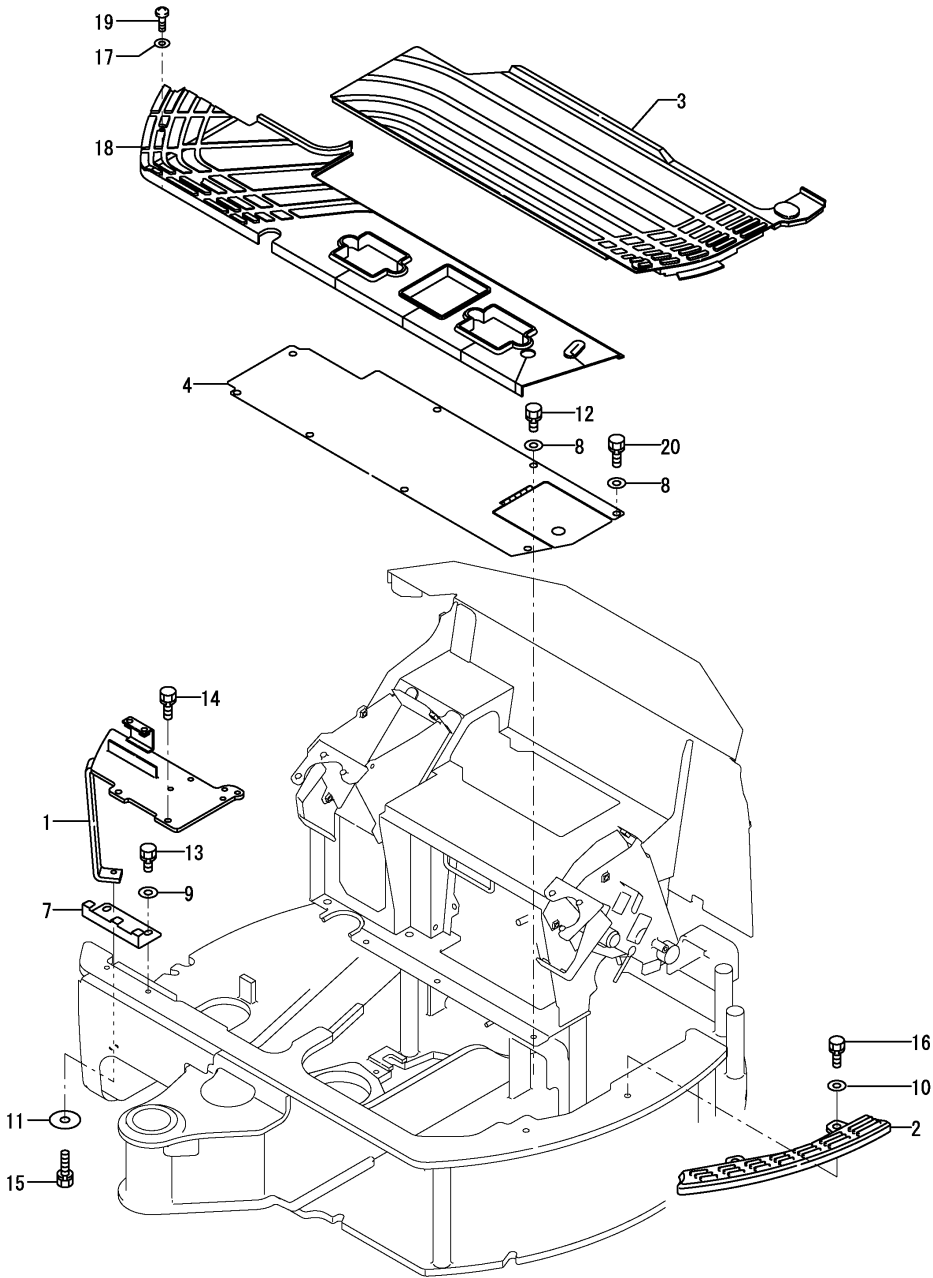


0CS10-M46401 Fig.32										
				(A)=VIO20-3(KR)	(D)=					
				(B)=	(E)=					
				(C)=	(F)=					
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	Q'ty (D)	(E)	(F)	I R
1	1	172456-61400-1	BONNET	1						
1-1	1	172456-61400-3	BONNET L ASSY (2J)	1						S
(A=M34345)										
1-2	1	172456-61400-Y	BONNET L ASSY	1						S
(A=M45501)										
3	2	172456-61480	RUBBER, SEAL 95	1						
4	2	172456-61490	SEAL	1						
5	2	172456-61500	SEAL	1						
6	2	172183-65560	RUBBER, SEAL 390	1						
6-1	2	172487-64780	RUBBER, SEAL 365	1						R
(A=M35868)										
7	1	172458-61600-1	COVER ASSY	1						
7-1	1	172458-61600-3	COVER ASSY	1						S
(A=M34345)										
7-2	1	172458-61600-Y	COVER ASSY	1						S
(A=M45501)										
8	1	172456-61691	COVER ASSY	1						
9	2	172156-11150	SEAL, ENGINE	1						
11	2	172458-64140	SEAL	1						
12	2	172165-65460	RUBBER, SEAL	1						
13	1	22137-100000	WASHER, 10	4						
14	1	172730-05250	WASHER	1						
15	1	22157-100000	WASHER, 10	2						
16	1	26013-100202	BOLT, SPRING M10X 20	4						
17	1	26013-100252	BOLT, SPRING M10X 25	2						
18	1	26013-120302	BOLT, SPRING M12X 30	2						
19	1	26013-120352	BOLT, M12X 35	1						

Fig.33. STEP

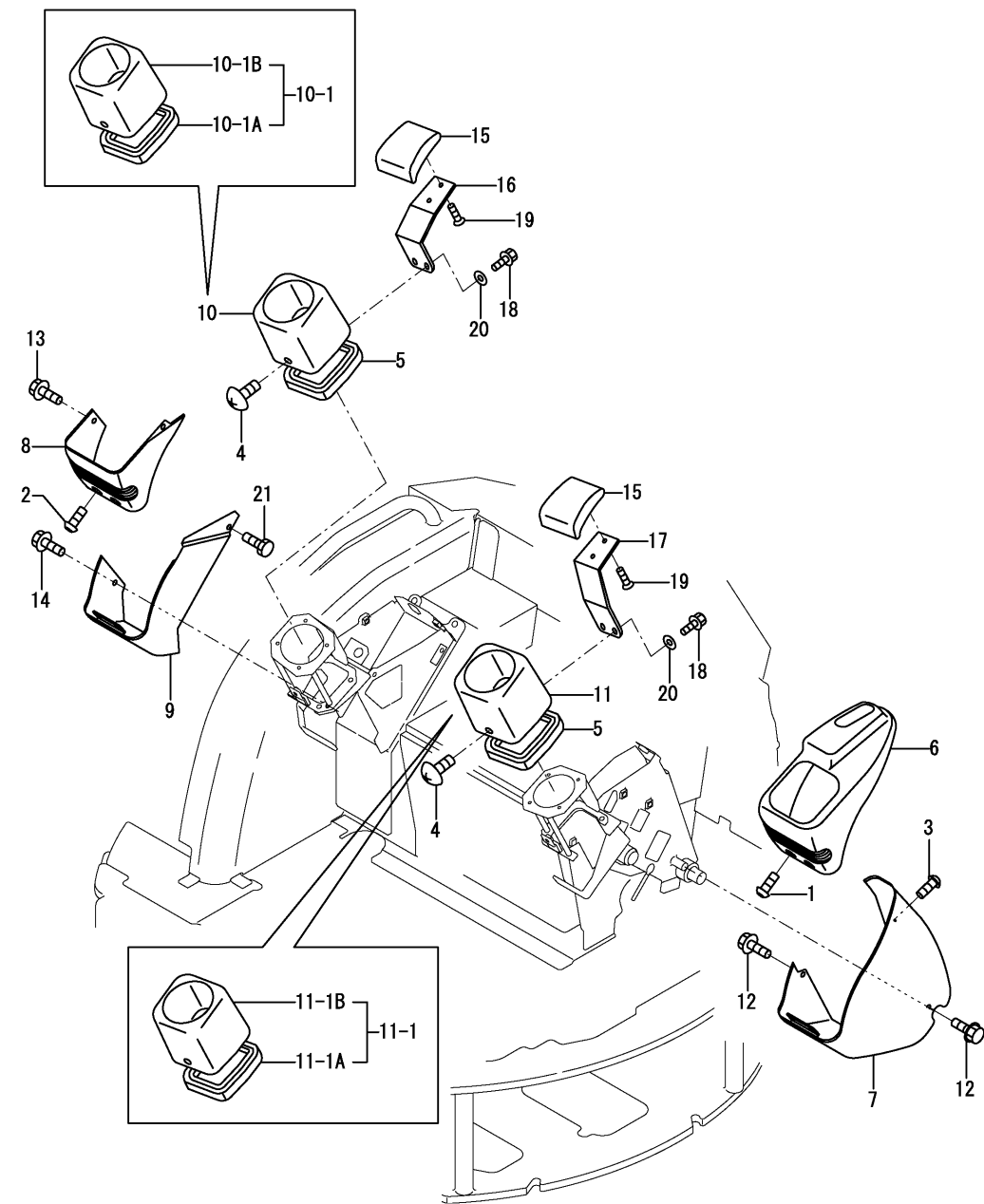
(A)=VIO20-3(KR)
(B)=
(C)=

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



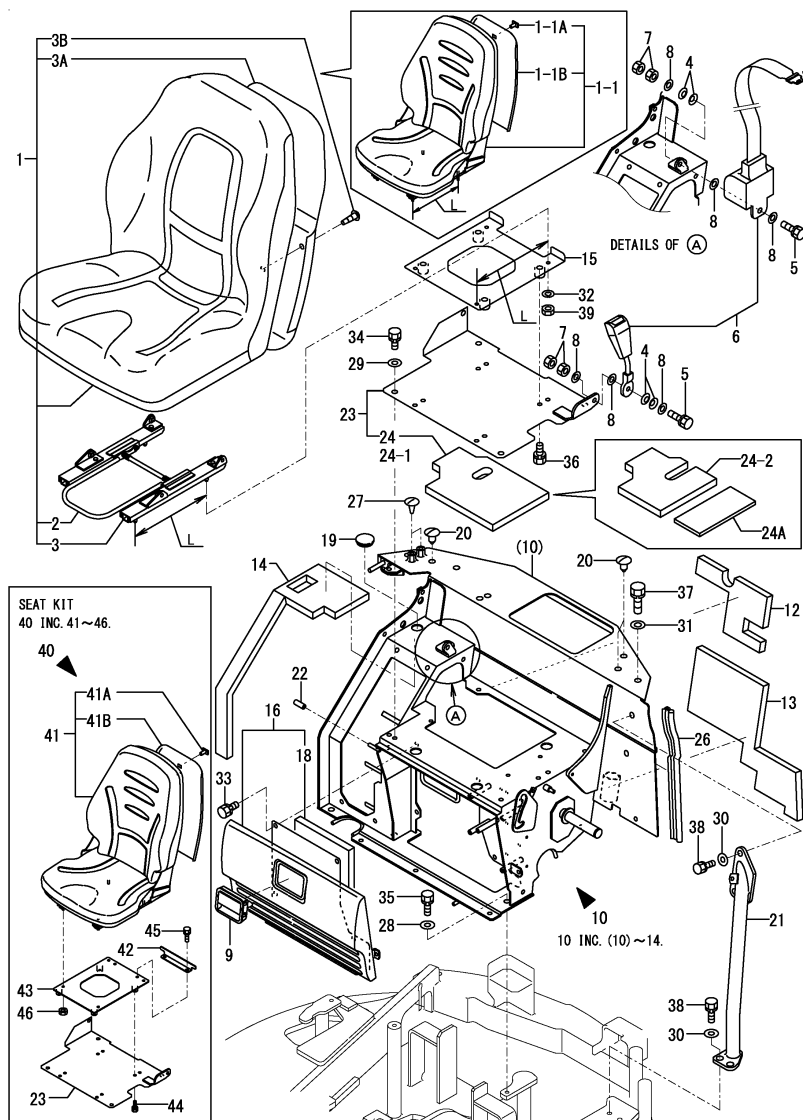
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-62100-1	STEP	1							
1-1	1	172456-62100-2	STEP	1							S
(A=M/#32643)											
2	1	172458-62110	STEP	1							
2-1	1	172458-62110-1	STEP	1							S
(A=M/#32643)											
3	1	172456-62200	MAT A	1							
4	1	172469-62210	STEP	1							
4-1	1	172469-62210-1	STEP ASSY	1							S
(A=M/#32643)											
7	1	172456-62500	HOOK, FLOOR MAT	1							
7-1	1	172456-62500-1	HOOK, FLOOR MAT	1							S
(A=M/#32643)											
8	1	22137-100000	WASHER, 10	8							
9	1	22137-100000	WASHER, 10	2							
10	1	22137-120000	WASHER, 12	2							
11	1	22157-100000	WASHER, 10	1							
12	1	26013-100202	BOLT, M10X 20	8							
12-1	1	26013-100202	BOLT, M10X 20	6							K
(A=*2014.01)											
13	1	26013-100202	BOLT, M10X 20	2							
14	1	26013-100252	BOLT, M10X 25	2							
15	1	26013-100352	BOLT, M10X 35	1							
16	1	26013-120302	BOLT, M12X 30	2							
17	1	172458-62430	WASHER	1							
18	1	172A36-62500	MAT, FLOOR B(CANOPY	1							
19	1	172137-69850	SCREW	1							
20	1	26013-100252	BOLT, M10X 25	2							W
(A=*2014.01)											

Fig.34. INSTRUMENT PANEL & ARM REST



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172458-46720	BOLT	3							
2	1	172458-46720	BOLT	2							
3	1	172458-46720	BOLT	1							
4	1	172458-46720	BOLT	2							
5	1	172162-62540	SEAL, STEP	2							Z
(A=M35238)											
6	1	172458-63100	PANEL, INSTRUMENT	1							
7	1	172458-63120	PANEL, INSTRUMENT	1							
8	1	172458-63130	PANEL, INSTRUMENT	1							
9	1	172458-63140	PANEL, INSTRUMENT	1							
10	1	172472-63210	COVER	1							Z
(A=M35238)											
10-1	1	172472-63150	COVER	1							W
(A=M35238)											
10-1A	2	172162-62540	SEAL, STEP	1							
10-1B	2	172472-63210	COVER	1							
11	1	172472-63220	COVER	1							Z
(A=M35238)											
11-1	1	172472-63160	COVER	1							W
(A=M35238)											
11-1A	2	172162-62540	SEAL, STEP	1							
11-1B	2	172472-63220	COVER	1							
12	1	172519-63240	BOLT	2							
13	1	172519-63240	BOLT	1							
14	1	172519-63240	BOLT	2							
14-1	1	172519-63240	BOLT	1							K
(A=*2015.06.)											
15	1	172441-44320	ARMREST	2							
16	1	172472-64531-1	PLATE, ARMREST	1							
16-1	1	172472-64532-2	PLATE, ARMREST	1							N
(A=M/#30845)											
16-2	1	172472-64532-1	PLATE, ARMREST	1							S
(A=M/#32643)											
17	1	172472-64541-1	PLATE, ARMREST	1							
17-1	1	172472-64542-2	PLATE, ARMREST	1							N
(A=M/#30845)											
17-2	1	172472-64542-1	PLATE, ARMREST	1							S
(A=M/#32643)											
18	1	172165-66980	BOLT	4							
19	1	26577-080122	SCREW, M8X12	4							
20	1	22137-080000	WASHER, 8	4							W
(A=M30845)											
21	1	172487-63500	BOLT,LOW HEAD 8X20	1							W
(A=*2015.06.)											

Fig.35. SEAT & SEAT MOUNT(TO MEF098)



(1) REF.NO.1 & 15 L=255MM,
NO.1-1 & 15-1 L=285MM
INTERCHANGEABLE BY SIMULTANEOUS REPLACEMENT WITH REF.NO.1-1&15-1
(2) INTERCHANGEABLE BY SIMULTANEOUS REPLACEMENT WITH REF.NO.24A.
(3) INTERCHANGEABLE BY SIMULTANEOUS REPLACEMENT WITH REF.NO.4-1,5-1,7-1 & 8-1.
(4) Spare parts is shown in Fig.90 No.1.
(5) Spare parts is shown in Fig.91 No.1.

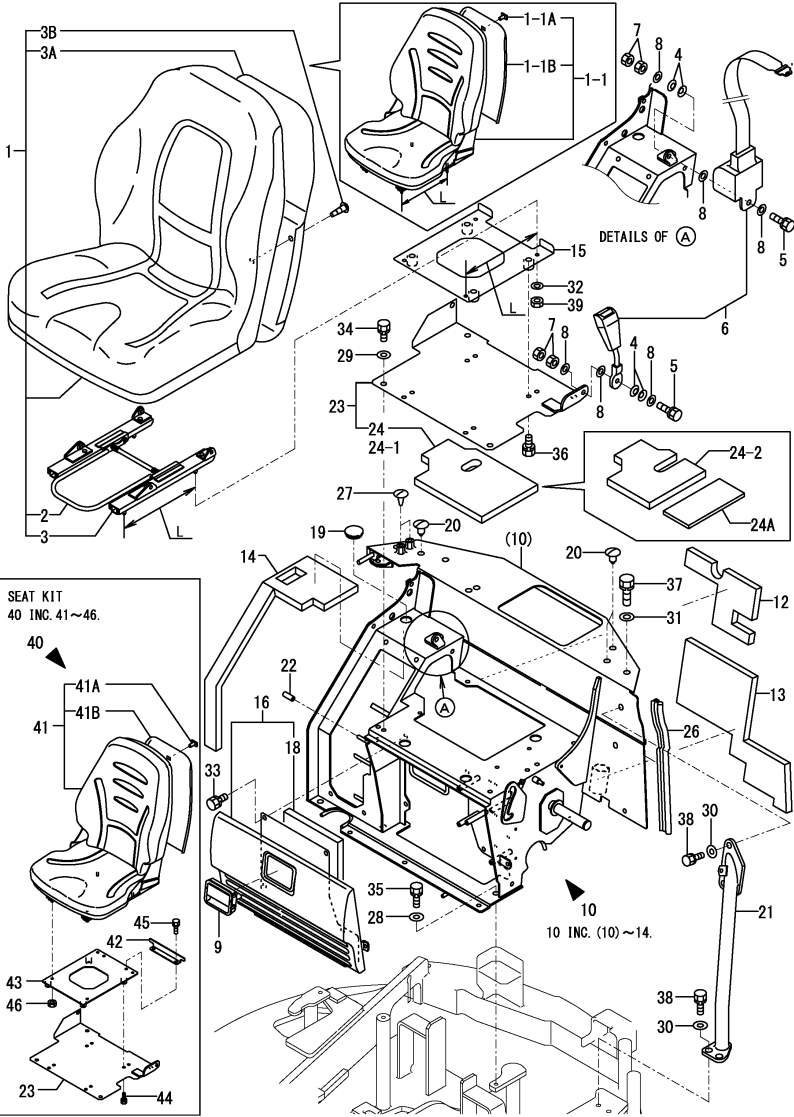
No.	Lev.	Parts No.	Description	Q'ty						I R
				(A)	(B)	(C)	(D)	(E)	(F)	
1	1	172455-64200	SHEET	1						5
1-1	1	172A46-64200 (A=M32769)	SEAT, OPERATOR	1						F 1
1-1A	2	172A46-64180 (A=M32769)	LOCK-FUSE,LID	1						W
1-1B	2	172A46-64190 (A=M32769)	COVER, BACK	1						W
1-2	1	172A46-64200 (A=MEF099)	SEAT, OPERATOR	1						Z 4
2	2	172455-64600 (A=M32769)	TRACK ASSY, SEAT	1						Z
3	2	172455-64610 (A=M32769)	TRACK ASSY, SEAT	1						Z
3A	2	172455-64590 (A=M32769)	BOARD, FR SEAT BACK	1						Z
3B	2	172455-64710 (A=M32769)	SCREW	14						Z
4	1	172652-64220	SPRING	4						
4-1	1	172A77-64270 (A=M35974)	SPRING	4						F 3
5	1	172433-64511	BOLT	2						
5-1	1	26116-100352 (A=M35974)	BOLT, M10X 35 PLATED	2						F 3
6	1	172A23-64770	BELT ASSY, SEAT	1						
6-1	1	1A8160-63400 (A=M35974)	BELT ASSY, SEAT	1						R
7	1	172187-64831	NUT	4						
7-1	1	26716-100002 (A=M35974)	NUT, M10	4						F 3
8	1	22137-120000	WASHER, 12	4						
8-1	1	22137-100000 (A=M35974)	WASHER, 10	4						F 3
8-2	1	22137-100000 (A=*2009.11.)	WASHER, 10	6						K
9	1	172187-61421	HANDLE, LOCK	1						
10	1	172A36-64200	MOUNT ASSY,SEAT	1						
10-1	1	172A36-64201 (A=M32567)	MOUNT ASSY,SEAT	1						N
10-2	1	172A36-64202 (A=MEF099)	MOUNT ASSY,SEAT	1						N
12	2	172A23-64700	SPONGE	1						
13	2	172456-64710	SPONGE	1						
14	2	172A23-64720	SPONGE	1						
15	1	172A39-64330	PLATE ASSY,SEAT KR	1						
15-1	1	172A39-64331 (A=M33227)	PLATE ASSY,SEAT KR	1						S 1
16	1	172A23-64460	GRILLE ASSY	1						
16-1	1	172A23-64461 (A=M33952)	GRILLE ASSY	1						N
18	2	172A23-64500	SPONGE	1						
18-1	2	172A23-64501	SPONGE	1						N

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.35. SEAT & SEAT MOUNT(TO MEF098)

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

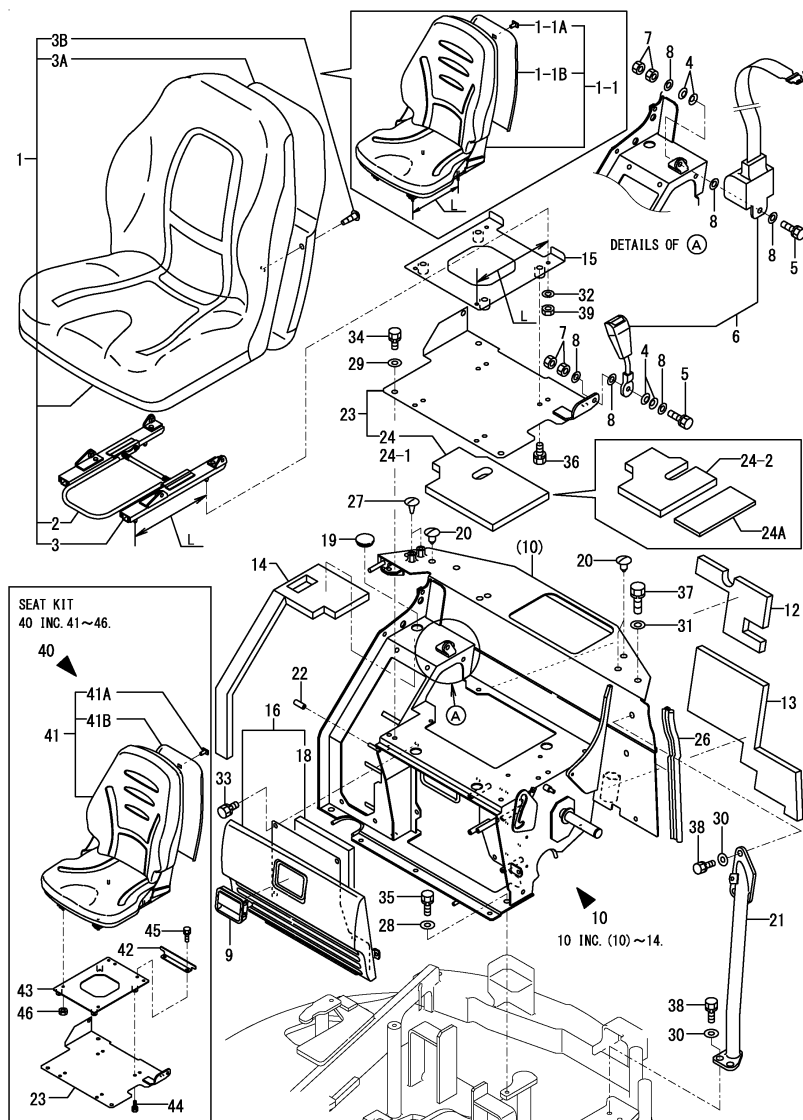
(D)=
(E)=
(F)=



Remarks
(1)REF.NO.1 & 15 L=255MM,
NO.1-1 & 15-1 L=285MM
INTERCHANGEABLE BY SIMULTANEOUS REPLACEMENT WITH REF.NO.1-1&15-1
(2)INTERCHANGEABLE BY SIMULTANEOUS REPLACEMENT WITH REF.NO.24A.
(3)INTERCHANGEABLE BY SIMULTANEOUS REPLACEMENT WITH REF.NO.4-1,5-1,7-1 & 8-1.
(4)Spare parts is shown in Fig.90 No.1.
(5)Spare parts is shown in Fig.91 No.1.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
		(A=M33952)									
19	1	172458-64590	PLUG	1							
20	1	172458-64600	CLIP, TREE	3							
21	1	172469-64700	PIPE	1							
22	1	172187-64800	CAP	1							
23	1	172A36-64900	PLATE ASSY,SEAT	1							
23-1	1	172A36-64901	PLATE ASSY,SEAT	1							R
		(A=M33227)									
23-2	1	172A36-64902	PLATE ASSY,SEAT	1							N
		(A=M33952)									
24	2	172A23-64880	SPONGE	1							
24-1	2	172A23-64881	SPONGE	1							R
		(A=M33227)									
24-2	2	172A23-64882	SPONGE	1							F 2
		(A=M33952)									
24A	2	172A23-64930	INSURATOR,SEAT	1							W
		(A=M33952)									
26	1	172164-66480	RUBBER 340, SEAL	1							
27	1	172444-68650	CLIP, TREE	4							
28	1	22137-100000	WASHER, 10	3							
29	1	22137-100000	WASHER, 10	5							
30	1	22137-120000	WASHER, 12	4							
31	1	22137-120000	WASHER, 12	2							
32	1	22217-080000	WASHER, SPRING 8	4							
33	1	26013-100202	BOLT, SPRING M10X 20	4							
34	1	26013-100202	BOLT, SPRING M10X 20	5							
35	1	26013-100252	BOLT, SPRING M10X 25	3							
36	1	26013-100252	BOLT, SPRING M10X 25	4							
37	1	26013-120252	BOLT, SPRING M12X 25	2							
38	1	26013-120302	BOLT, SPRING M12X 30	4							
39	1	26716-080002	NUT, M8	4							
40	1	172456-08600	SEAT KIT	1							W
		(A=M/#33595)									
40-1	1	172456-08600	SEAT KIT	1							Z 4
		(A=MEF099)									
41	2	172A46-64200	SEAT, OPERATOR	1							W
		(A=M/#33595)									
41-1	2	172A46-64200	SEAT ASSY, OPERATOR	1							Z 4
		(A=*2017.11.)									
41A	3	172A46-64180	LOCK-FUSE,LID	1							W
		(A=M33595)									
41B	3	172A46-64190	COVER, BACK	1							W
		(A=M33595)									
42	2	172A46-64520	STOPPER ASSY	1							W
		(A=M/#33595)									
43	2	172A46-64500	PLATE ASSY,SEAT	1							W
		(A=M/#33595)									
44	2	26013-080202	BOLT, SPRING M8X 20	4							W
		(A=M/#33595)									
45	2	26013-100202	BOLT, SPRING M10X 20	2							W
		(A=M/#33595)									

Fig.35. SEAT & SEAT MOUNT(TO MEF098)



(1) REF.NO.1 & 15 L=255MM,
NO.1-1 & 15-1 L=285MM
INTERCHANGEABLE BY SIMULTANEOUS REPLACEMENT WITH REF.NO.1-1&15-1
(2)INTERCHANGEABLE BY SIMULTANEOUS REPLACEMENT WITH REF.NO.24A.
(3)INTERCHANGEABLE BY SIMULTANEOUS REPLACEMENT WITH REF.NO.4-1,5-1,7-1 & 8-1.
(4)Spare parts is shown in Fig.90 No.1.
(5)Spare parts is shown in Fig.91 No.1.

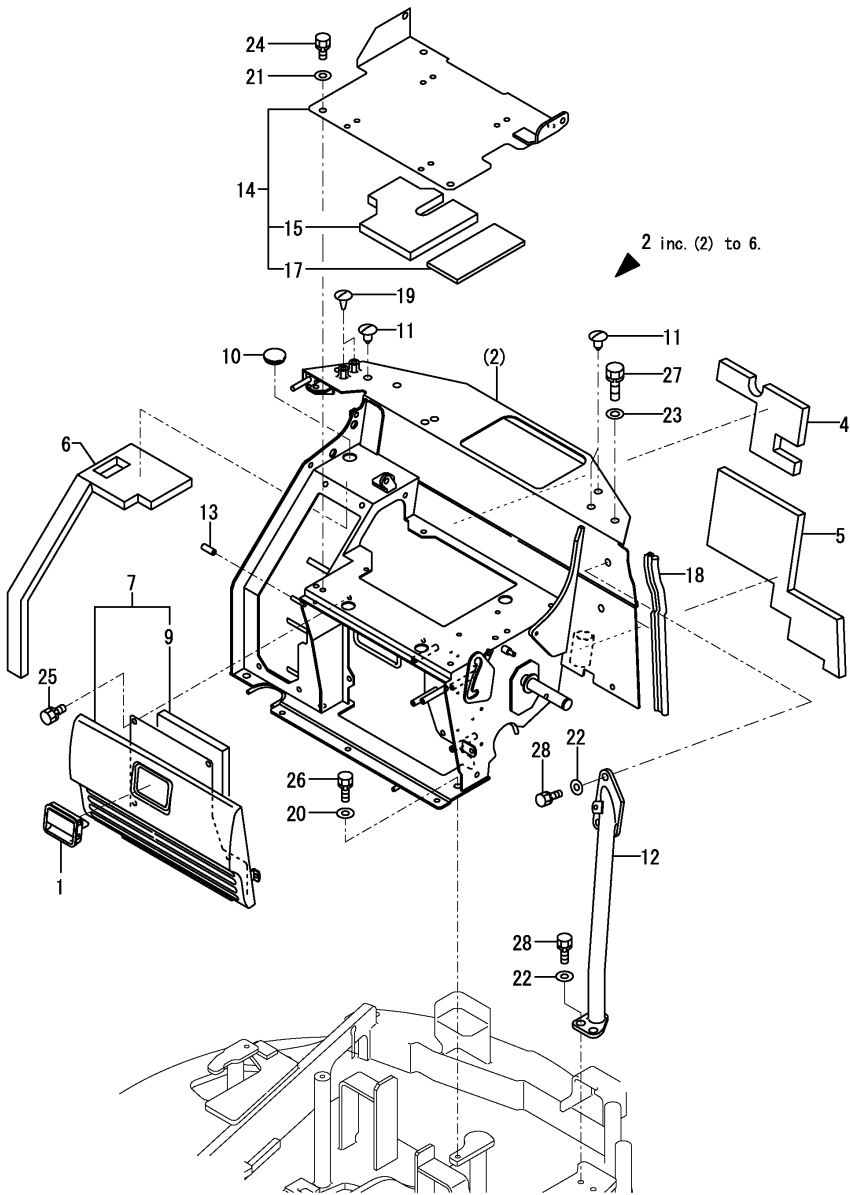
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I R
				(A)	(B)	(C)	(D)	(E)	(F)	
46	2	26051-080002 (A=M/#33595)	NUT, M8	4						W

Fig.85. (35A)SEAT MOUNT(WITHOUT SEAT SPEC.)

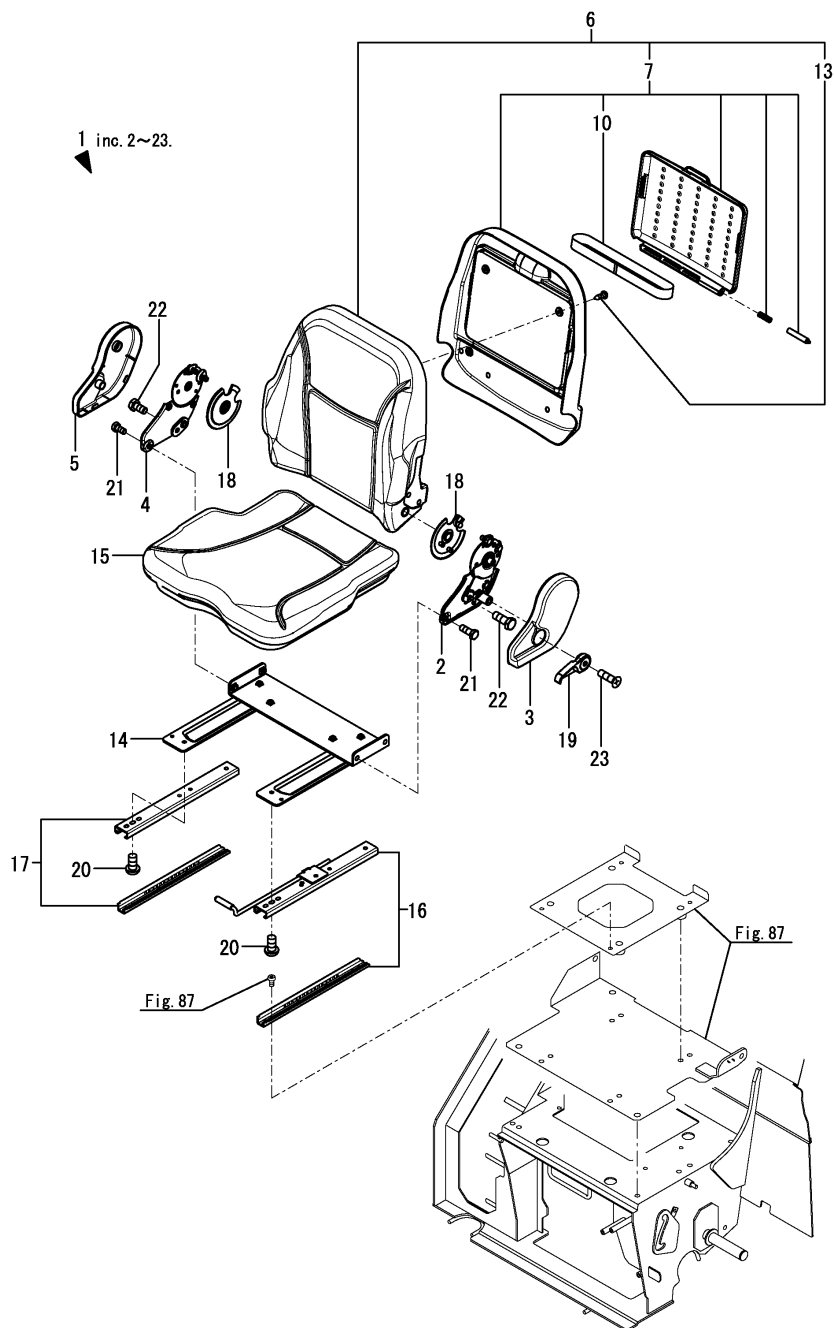
(A)=VIO20-3(KR)
(B)=
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172187-61421	HANDLE, LOCK	1							
2	1	172A36-64201	MOUNT ASSY,SEAT	1							
2-1	1	172A36-64202	MOUNT ASSY,SEAT	1							N
(A=MEF099)											
4	2	172A23-64700	SPONGE	1							
5	2	172456-64710	SPONGE	1							
6	2	172A23-64720	SPONGE	1							
7	1	172A23-64461	GRILLE ASSY	1							
9	2	172A23-64501	SPONGE	1							
10	1	172458-64590	PLUG	1							
11	1	172458-64600	CLIP, TREE	3							
12	1	172469-64700	PIPE	1							
13	1	172187-64800	CAP	1							
14	1	172A36-64902	PLATE ASSY,SEAT	1							
14-1	1	172A36-64903	PLATE ASSY,SEAT	1							N
(A=MEF099)											
15	2	172A23-64882	SPONGE	1							
17	2	172A23-64930	INSURATOR,SEAT	1							
18	1	172164-66480	RUBBER 340, SEAL	1							
19	1	172444-68650	CLIP, TREE	4							
19-1	1	172183-81160	CLIP, TREE 9.5	4							N
(A=M3G249)											
20	1	22137-100000	WASHER, 10	3							
21	1	22137-100000	WASHER, 10	5							Z
(A=MEF099)											
22	1	22137-120000	WASHER, 12	4							
23	1	22137-120000	WASHER, 12	2							
24	1	26013-100202	BOLT, SPRING M10X 20	5							
24-1	1	26014-100202	BOLT, M10X 20	5							N
(A=MEF099)											
25	1	26013-100202	BOLT, SPRING M10X 20	4							
26	1	26013-100252	BOLT, SPRING M10X 25	3							
27	1	26013-120252	BOLT, SPRING M12X 25	2							
28	1	26013-120302	BOLT, SPRING M12X 30	4							

Fig.86. (35B)SEAT(FROM MEF099)



(A)=VIO20-3(KR)

$$(B)=$$

(C)=

(D)=

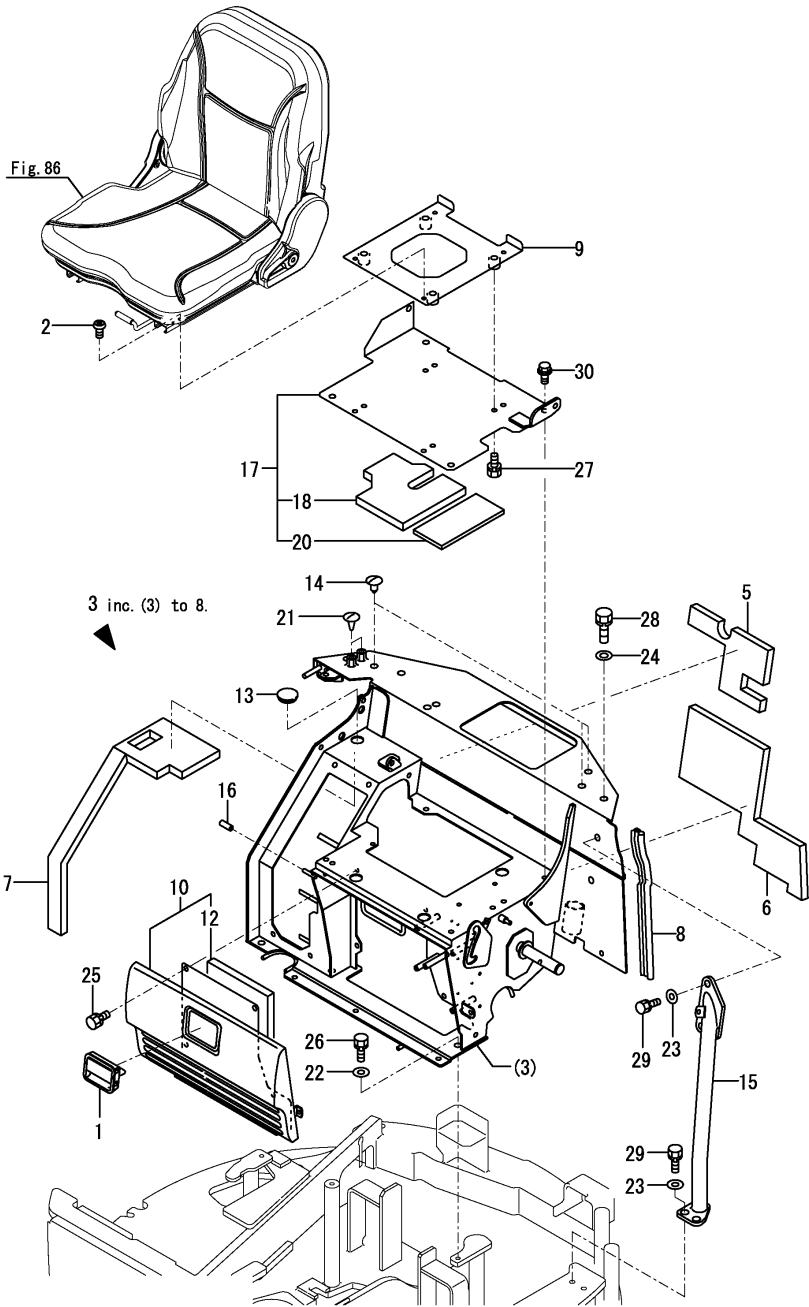
$$(E)=$$
$$(F)=$$

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

Fig.87. (35C)SEAT MOUNT(FROM MEF099)

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

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172187-61421	HANDLE, LOCK	1							
2	1	172455-61710	BOLT M 8X 16	4							
3	1	172A36-64202	MOUNT ASSY,SEAT	1							
5	2	172A23-64700	SPONGE	1							
6	2	172456-64710	SPONGE	1							
7	2	172A23-64720	SPONGE	1							
8	2	172164-66480	RUBBER 340, SEAL	1							
9	1	172A39-64331	PLATE ASSY,SEAT KR	1							
10	1	172A23-64461-N	GRILLE ASSY	1							
12	2	172A23-64501	SPONGE	1							
13	1	172458-64590	PLUG	1							
14	1	172458-64600	CLIP, TREE	3							
15	1	172469-64700-N	PIPE	1							
16	1	172187-64800	CAP	1							
17	1	172A36-64903	PLATE ASSY,SEAT	1							
18	2	172A23-64882	SPONGE	1							
20	2	172A23-64930	INSURATOR,SEAT	1							
21	1	172444-68650	CLIP, TREE	4							
21-1	1	172183-81160	CLIP, TREE 9.5	4							N
(A=M3G249)											
22	1	22137-100000	WASHER, 10	3							
23	1	22137-120000	WASHER, 12	4							
24	1	22137-120000	WASHER, 12	2							
25	1	26013-100202	BOLT, M10X 20	4							
26	1	26013-100252	BOLT, M10X 25	3							
27	1	26013-100252	BOLT, M10X 25	4							
28	1	26013-120252	BOLT, M12X 25	2							
29	1	26013-120302	BOLT, M12X 30	4							
30	1	26014-100202	BOLT, M10X 20	5							

Fig.88. (35D)SEAT BELT(FROM MEF099)

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

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	1A8160-63401	SEATBELT ASSY	1							
4	1	172A77-64270	SPRING	4							
5	1	22137-100000	WASHER, 10	6							
6	1	26116-100352	BOLT, M10X 35 PLATED	2							
7	1	26716-100002	NUT, M10	4							

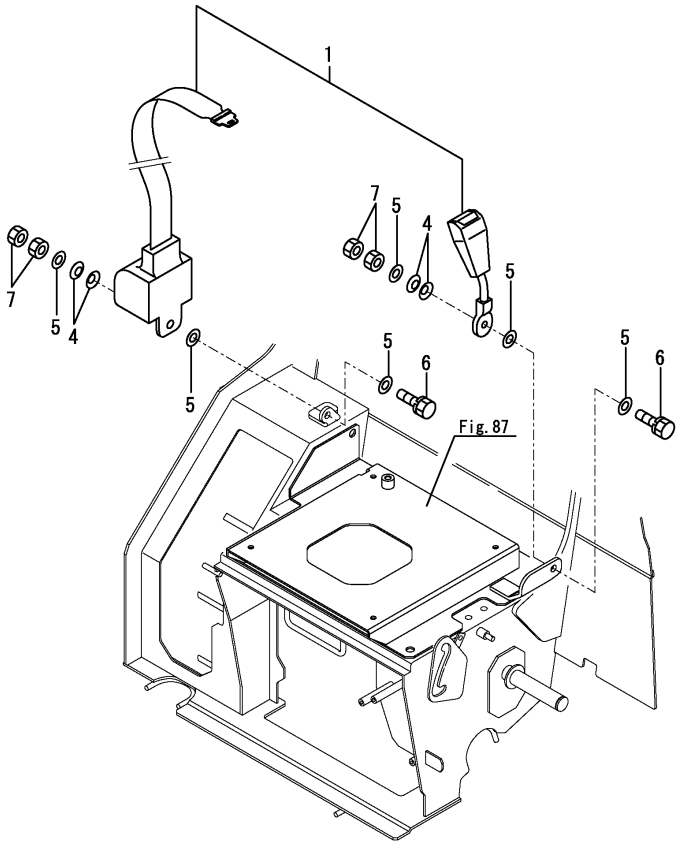
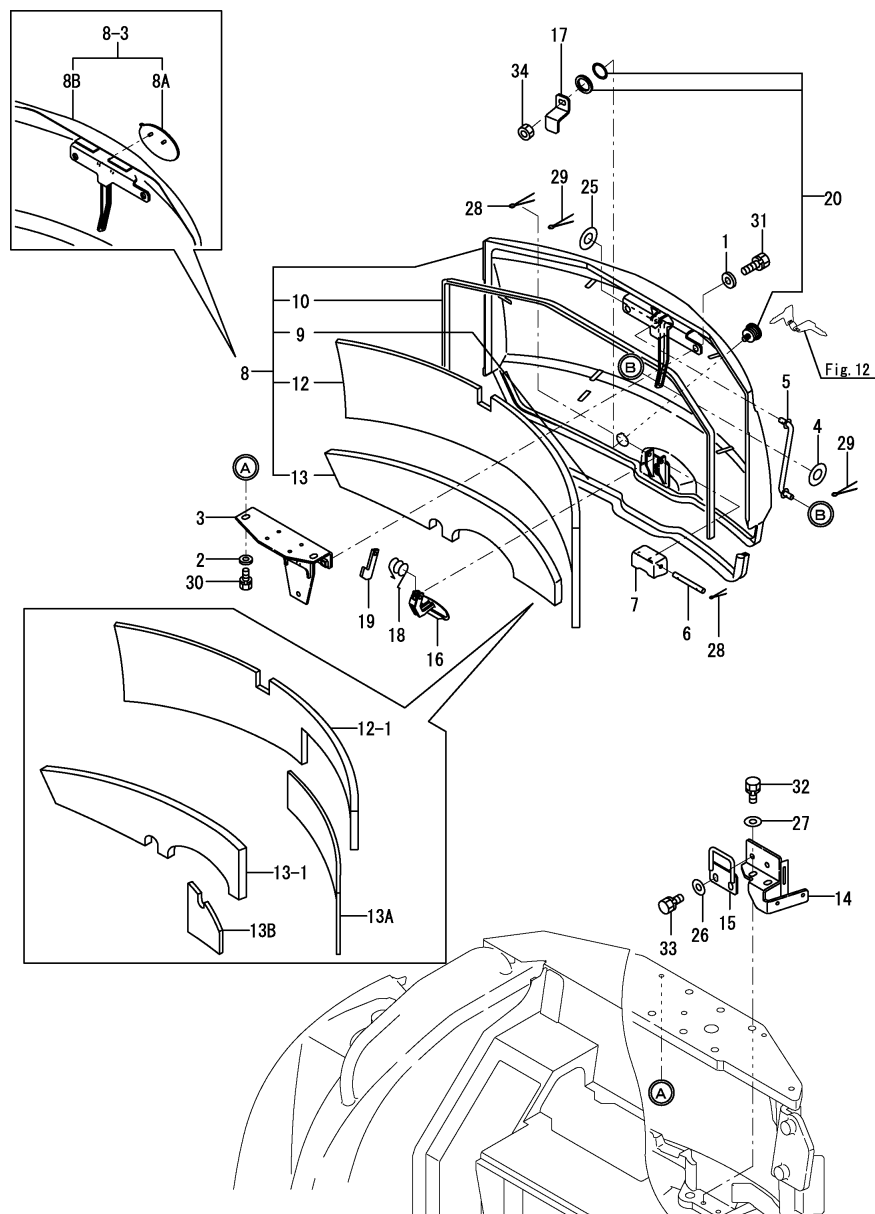


Fig.36. BONNET(1)



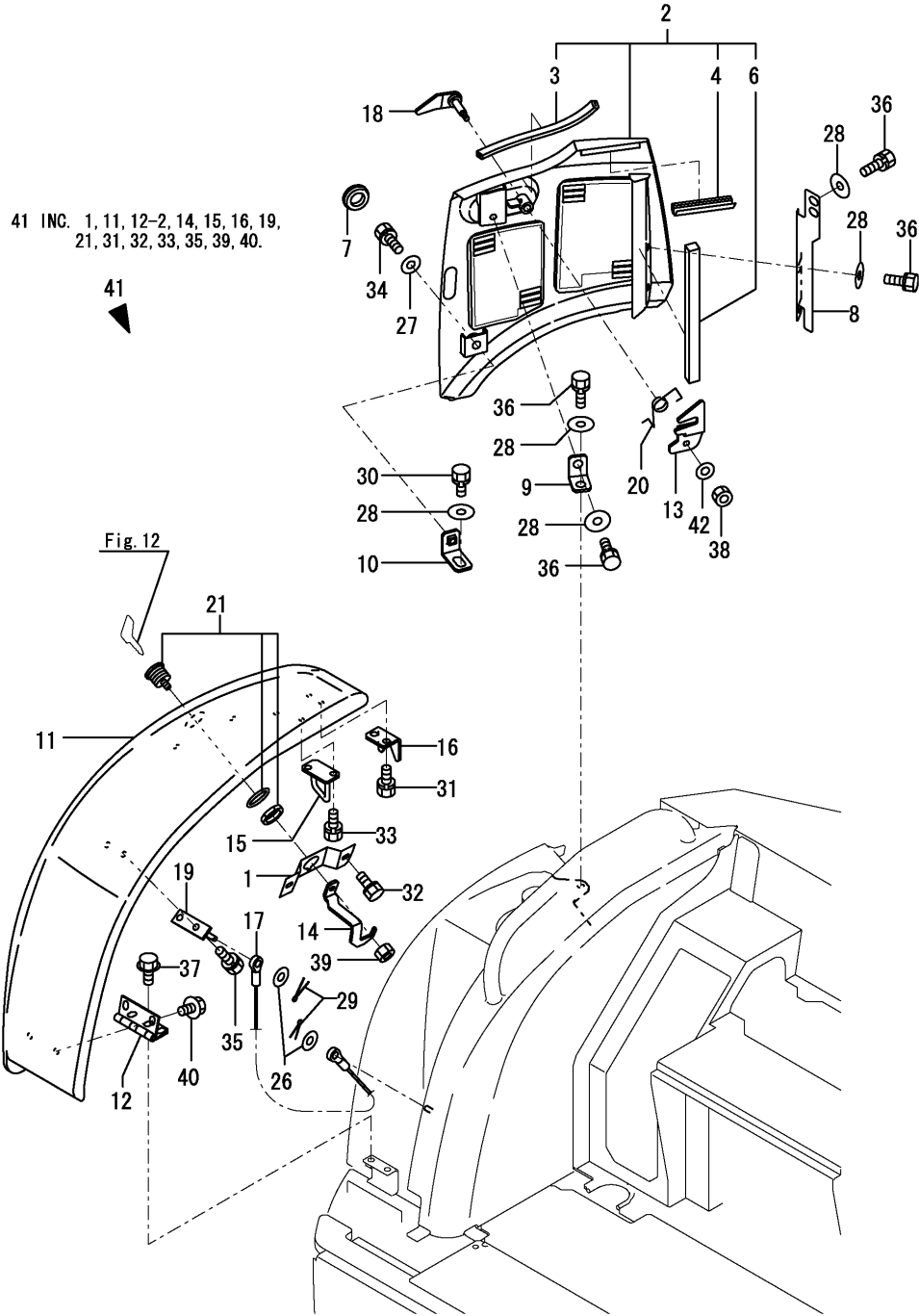
(1)INTERCHANGEABLE BY SIMULTANEOUS REPLACEMENT WITH REF.NO.13A.
(2)INTERCHANGEABLE BY SIMULTANEOUS REPLACEMENT WITH REF.NO.13B.

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

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

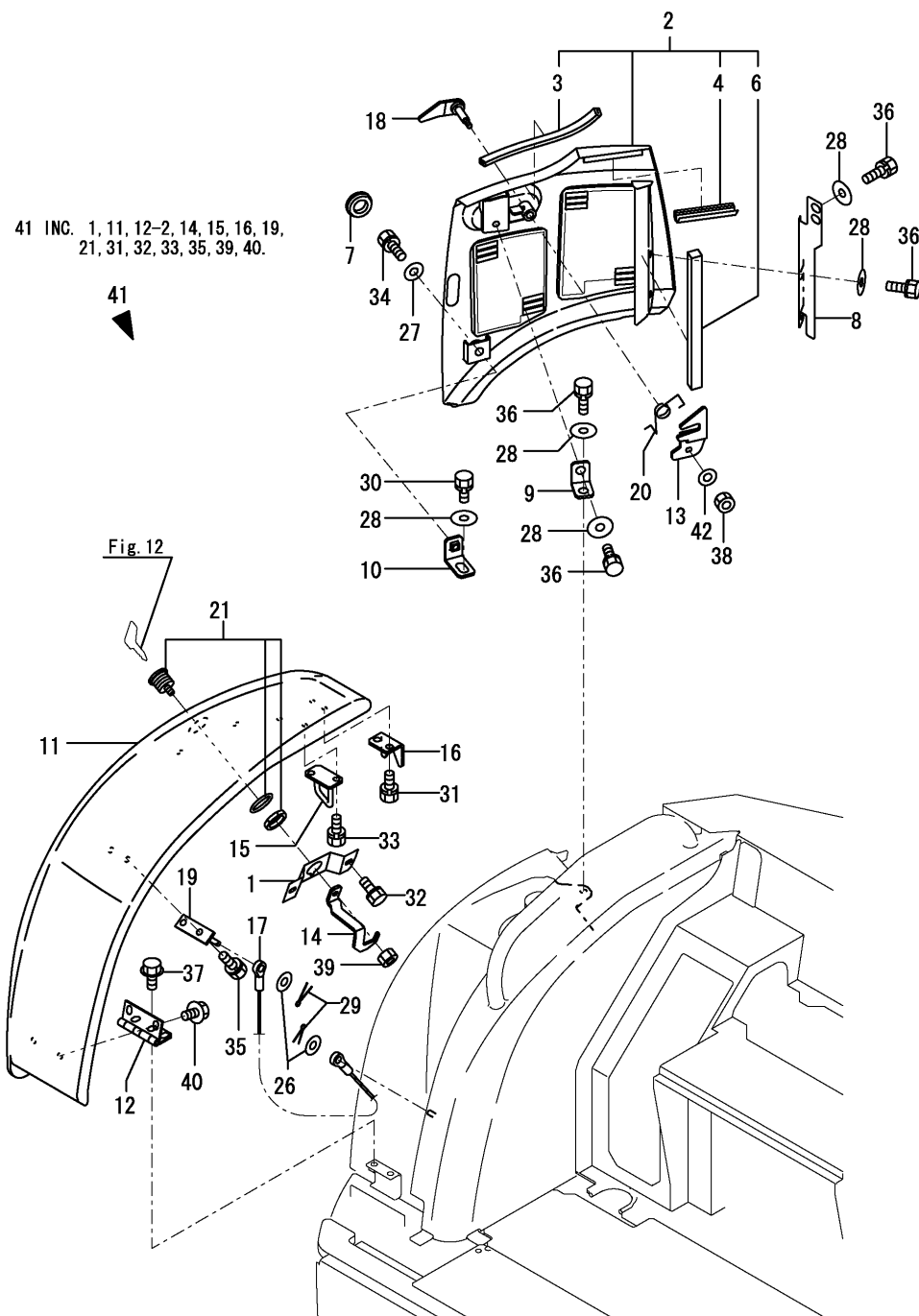
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	194145-04810	WASHER	2							
2	1	194145-04810	WASHER	2							
3	1	172458-11552	BRACKET ASSY	1							
4	1	1A1380-62160	WASHER	1							
5	1	172444-64730	ROD ASSY, STOPPER	1							
6	1	172458-65050	SHAFT	1							
7	1	172458-65060	COVER, LOCK	1							
8	1	172487-65100-1	BONNET	1							
8-1	1	172487-65101-1	BONNET	1							N
8-2	1	172487-65101-2	BONNET A ASSY(2J)	1							S
8-3	1	172A23-08450	BONNET KIT, Y	1							S
8A	2	172A64-03050	EMBLEM ASSY	1							W
8B	2	172A23-65600	BONNET ASSY	1							W
9	3	172458-65070	SEAL	1							
10	3	172458-65080	RUBBER, SEAL	1							
12	3	172487-65110	SEAL	1							
12-1	3	172487-65111	SEAL A	1							F 1
13	3	172487-65120	SEAL	1							
13-1	3	172487-65121	SEAL B	1							F 2
13A	3	172487-65130	INSURATOR	1							W
13B	3	172487-65140	INSURATOR	1							W
14	1	172456-65150	BRACKET, LOCK	1							
14-1	1	172456-65150-1	BRACKET, LOCK	1							S
15	1	172456-65171	BRACKET B, LOCK	1							
16	1	172187-65210	LEVER ASSY, LOCK	1							
17	1	172458-65271	PLATE, LOCK	1							
18	1	172734-65270	SPRING, CATCH	1							
19	1	172124-65480	CATCHER	1							
20	1	172164-66170	KEY ASSY, CYLINDER	1							
25	1	22137-080000	WASHER, 8	1							
26	1	22137-100000	WASHER, 10	2							
27	1	22137-100000	WASHER, 10	2							
28	1	22417-200200	PIN, COTTER 2.0X20	2							
29	1	22417-200200	PIN, COTTER 2.0X20	2							
30	1	26013-100252	BOLT, M10X 25	2							
31	1	26013-100252	BOLT, M10X 25	2							
32	1	26013-100252	BOLT, M10X 25	2							
33	1	26013-100252	BOLT, M10X 25	2							
34	1	26347-100002	NUT, M10	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	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172455-65230	PLATE, KEY	1							
2	1	172456-65302-1	BONNET	1							
2-1	1	172456-65302-3	BONNET R ASSY (2J)	1							S
(A=M34345)											
2-2	1	172456-65302-Y	BONNET R ASSY	1							S
(A=M45501)											
3	2	172434-61190	TRIM	1							
4	2	172458-61500	RUBBER, SEAL	1							
6	2	172456-65890	SEAL, 20X20	1							
7	1	172463-65410	PLUG	1							
7-1	1	172A21-61600	PLUG	1							N
(A=MZZZZZ)											
8	1	172456-65441	BRACKET A	1							
9	1	172456-65450	BRACKET B,BONNET R	1							
10	1	172456-65461	BRACKET ASSY	1							
11	1	172469-65500	BONNET	1							
11-1	1	172A23-65500	BONNET,B Y	1							S
(A=M45501)											
12	1	172456-65511-1	HINGE, BONNET	1							
12-1	1	172456-65511-2	HINGE, BONNET	1							S
(A=M/#32643)											
12-2	1	172456-65511-3	HINGE, BONNET	1							N
(A=MXXXXX)											
13	1	172456-65520	PLATE,HOOK	1							
14	1	172487-65520	PLATE,HOOK	1							
15	1	172458-65540	PLATE ASSY, STOPPER	1							
16	1	172458-65560	PLATE, GUIDE	1							
17	1	172458-65600	CABLE	1							
18	1	172458-65610	HOOK ASSY	1							
19	1	172458-65640	STAY ASSY, WIRE	1							
20	1	172156-65690	SPRING, STOPPER	1							
21	1	172164-66170	KEY ASSY, CYLINDER	1							
26	1	22137-080000	WASHER, 8	2							
27	1	22137-100000	WASHER, 10	1							
28	1	22157-100000	WASHER, 10	7							
28-1	1	22157-100000	WASHER, 10	6							K
(A=M32722)											
29	1	22417-200200	PIN, COTTER 2.0X20	2							
30	1	26013-100252	BOLT, M10X 25	1							
31	1	26014-100202	BOLT, M10X 20	2							
32	1	26014-100202	BOLT, M10X 20	2							
33	1	26014-100202	BOLT, M10X 20	2							
34	1	26013-100252	BOLT, M10X 25	1							
35	1	26013-100202	BOLT, M10X 20	2							
36	1	26013-100252	BOLT, M10X 25	6							
36-1	1	26013-100252	BOLT, M10X 25	5							K
(A=M32722)											
37	1	26106-100162	BOLT, M10X 16 PLATED	4							
37-1	1	26106-100162	BOLT, M10X 16 PLATED	2							K
(A=M32722)											
38	1	26347-080002	NUT, M8	1							

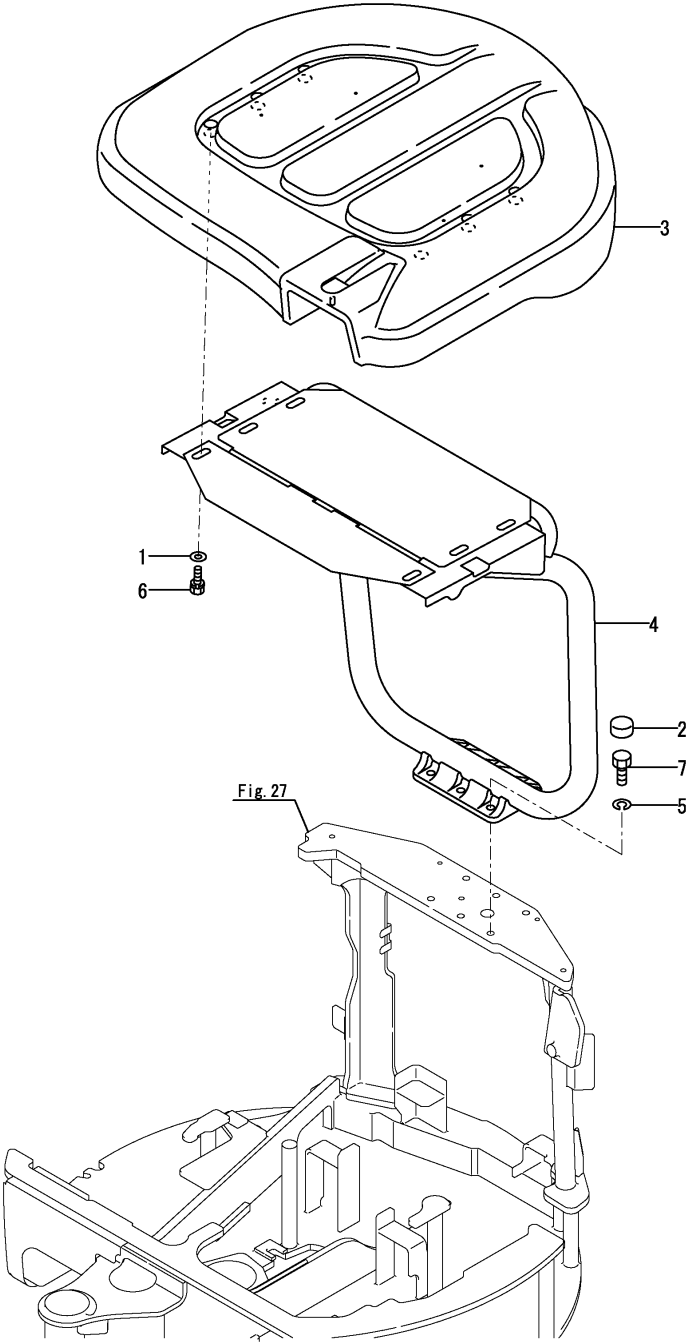
Fig.37. BONNET(2)



No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
39	1	26347-100002	NUT, M10	1							
40	1	26106-100162 (A=M32722)	BOLT, M10X 16 PLATED	2							W
41	1	172469-65490 (A=M32722)	BONNET ASSY	1							W
41-1	1	172A23-65490 (A=M45501)	BONNET ASSY,B TY	1							S
42	1	22137-080000 (A=MZZZZZ)	WASHER, 8	1							W

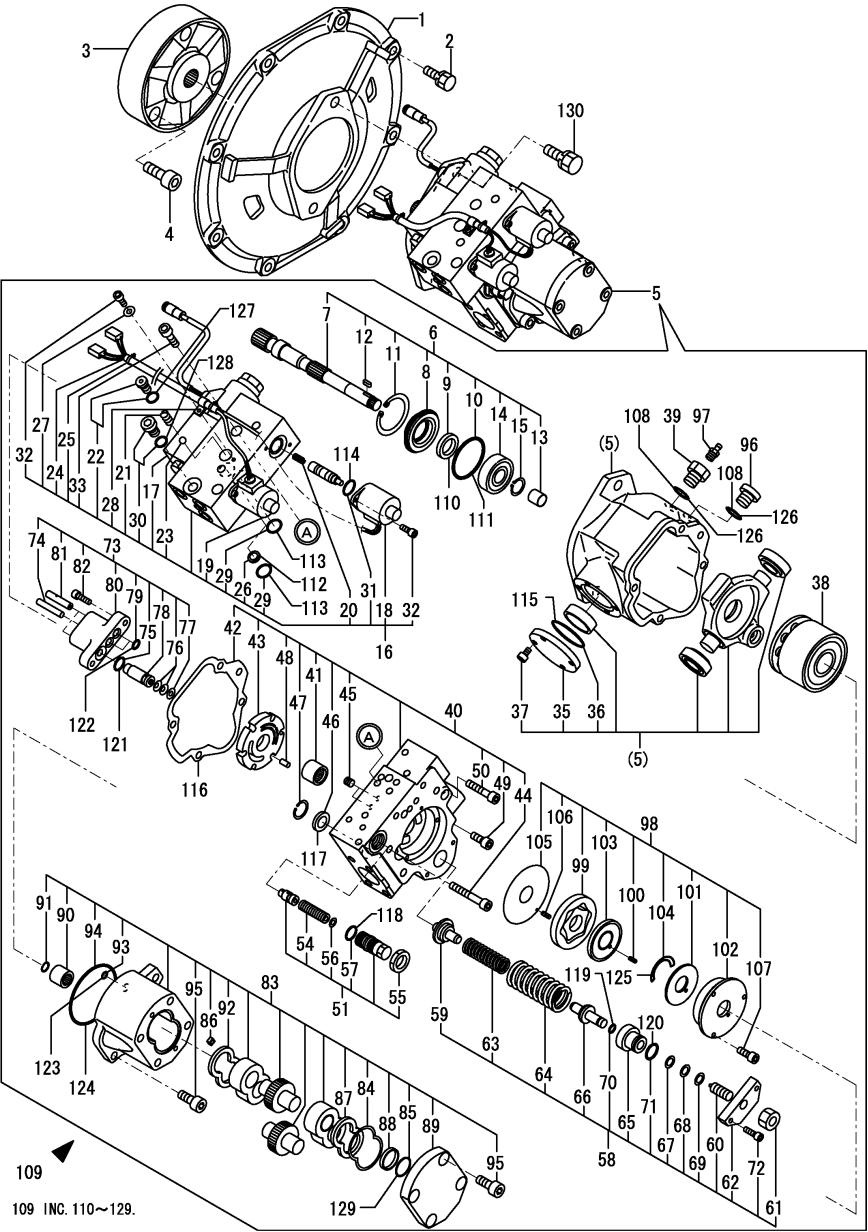
(A)=VIO20-3(KR)
(B)=
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172730-05250	WASHER	6							
2	1	172458-67090	CAP	6							
3	1	172458-67100	ROOF ASSY,CANOPY	1							
4	1	172A23-67110	CANOPY ASSY, TOPS	1							
4-1	1	172A23-67110-1	CANOPY ASSY, TOPS	1							S
(A=M/#32643)											
4-2	1	172A23-67111-1	CANOPY ASSY, TOPS	1							N
(A=M36157)											
5	1	22217-160000	WASHER, SPRING 16	6							
6	1	26013-120302	BOLT, M12X 30	6							
7	1	26076-160402	BOLT, 10.916X 40	6							

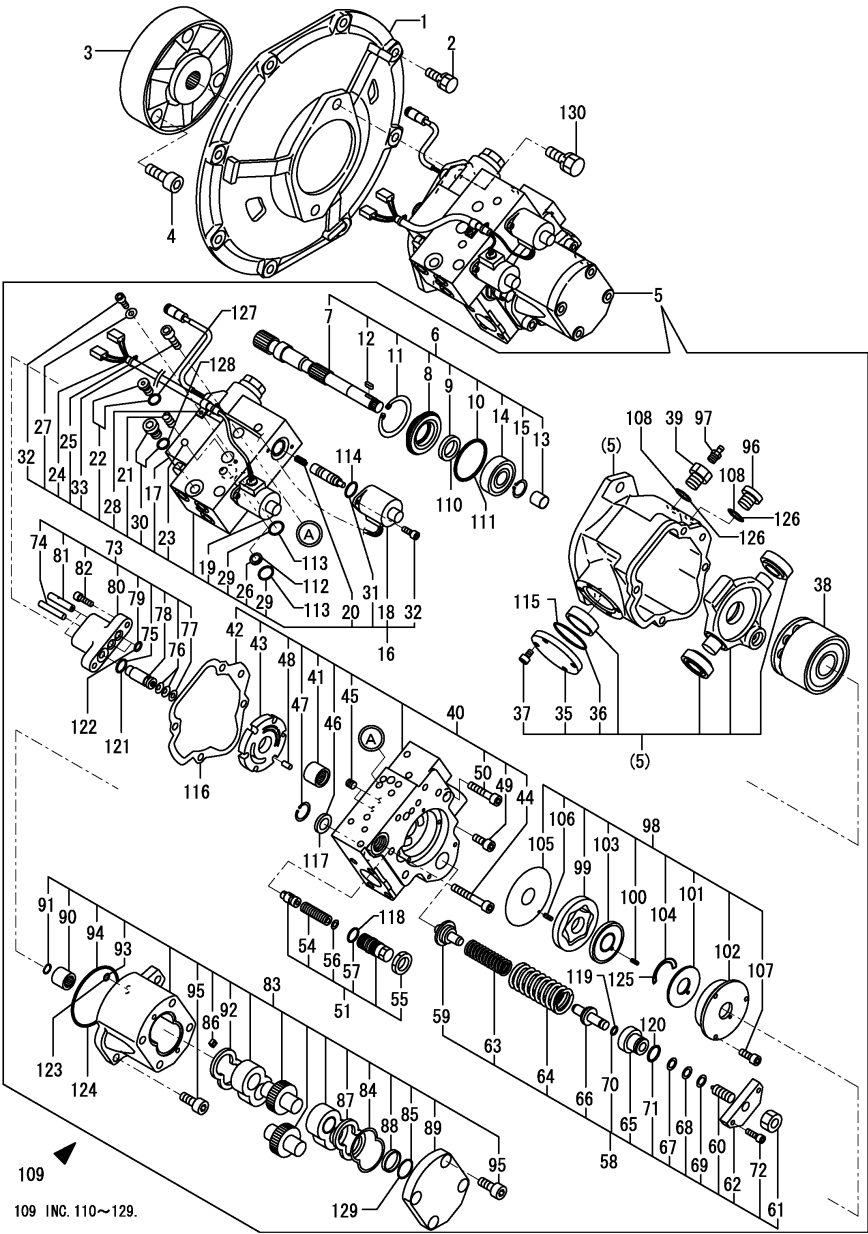
Fig.40. HYD.OIL PUMP & JIONT(TO M36239)



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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172168-71101-3	COVER, FLYWHEEL	1							
1-1	1	172168-71101-4	COVER, FLYWHEEL	1							S
(A=M/#32643)											
2	1	26013-100302	BOLT, M10X 30	8							
3	1	172165-71200	COUPLING	1							
4	1	26450-120402	BOLT, M12X 40	3							
5	1	172956-73100	PUMP Q ASSY	1							
6	2	172456-73110	SHAFT ASSY	1							
7	3	172456-73120	SHAFT	1							
8	3	172456-73130	SEAL, CASE	1							
9	3	172456-73140	SEAL, OIL	1							
10	3	172456-73150	O-RING	1							
11	3	172456-73160	CIRCLIP	1							
12	3	172456-73170	KEY	1							
13	3	172456-73180	PIN BUSH	1							
14	3	172179-73220	BEARING,	1							1
15	3	22242-000200	RING, 20	1							2
16	2	172956-73110	VALVE ASSY	1							R 2
17	3	172956-73121	VALVE, SOLENOID	1							
18	3	172456-73580	VALVE, SOLENOID	1							
18-1	3	172989-73160	VALVE, SOLENOID	1							
(A=MXXXXX)											
19	3	172456-73590	VALVE, SOLENOID	1							3
19-1	3	172989-73150	VALVE, SOLENOID	1							R 3
(A=MXXXXX)											
20	3	172456-73870	SPRING	2							
21	3	172456-73880	SPRING	1							
22	3	172456-73890	PLUG ASSY	1							
23	3	172456-73900	BALL, STEEL	1							
24	3	172456-73910	COVER	1							
25	3	172456-73920	BAND	2							
26	3	172456-73930	ELEMENT, FILTER	1							
27	3	172456-73940	WASHER	1							
28	3	172456-73950	CLAMP	1							
29	3	172456-73960	O-RING	2							
30	3	172456-73970	PLUG ASSY	1							
31	3	24311-000160	O-RING, 1AP16.0	2							
32	3	26450-040102	BOLT, M4X 10	5							
33	3	26450-080302	BOLT, M8X 30	2							
35	3	172179-73250	COVER	1							
36	3	24321-000450	O-RING, 1AG45.0	1							
37	3	26450-060122	BOLT, M6X 12	4							
38	2	172179-73130	ROTARY SET	1							
39	2	172179-73190	BUSHING	1							
40	2	172456-73280	COVER ASSY	1							
41	3	172179-73270	BEARING	1							
42	3	172179-73280	GASKET	1							
43	3	172456-73290	CONTROL PLATE	1							
44	3	172650-73450	BOLT,8X55HEX SOCKET	2							
45	3	172456-73600	ORIFICE	2							
46	3	172456-73610	FILTER	1							

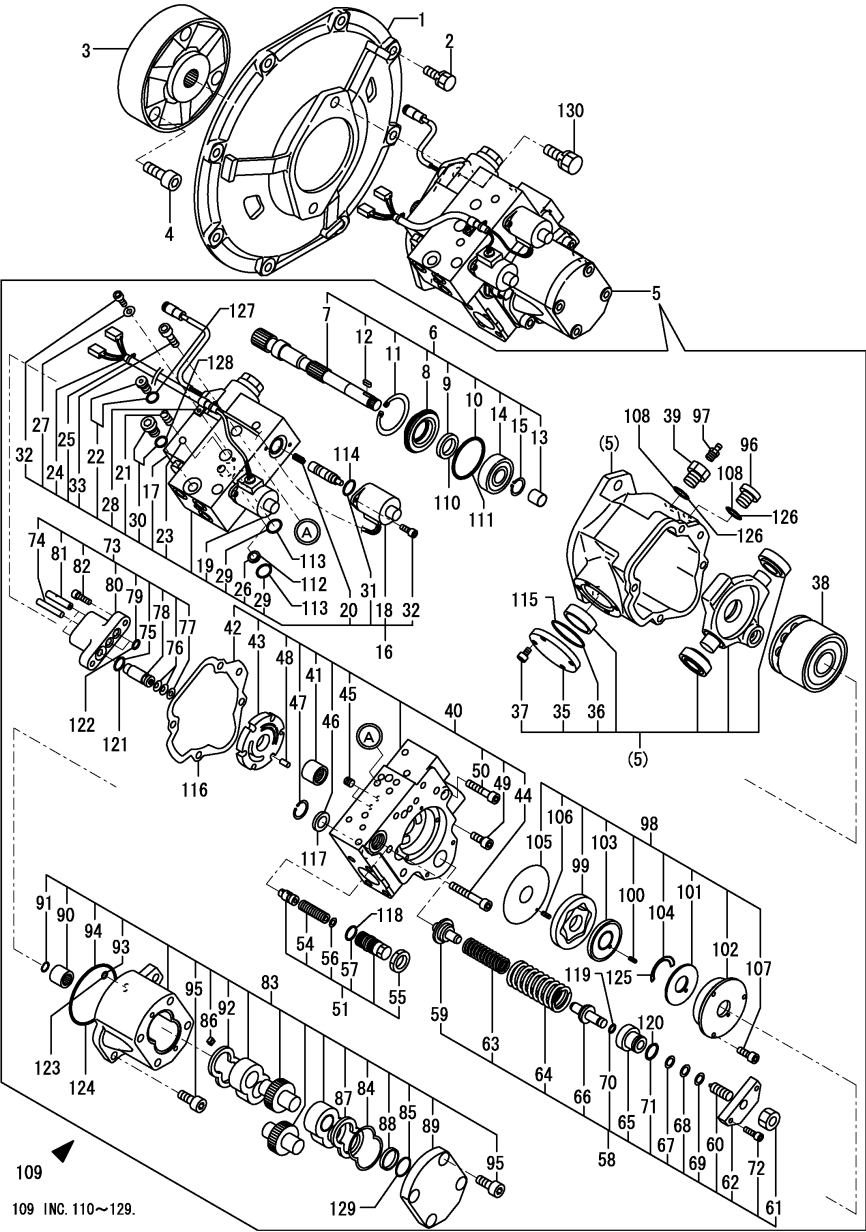
Fig.40. HYD.OIL PUMP & JIONT(TO M36239)



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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
47	3	172164-73670	CIRCLIP	1							
48	3	22312-060120	PIN, PARALLEL M6X12	2							
49	3	26450-080202	BOLT, M8X 20	2							
50	3	26450-080402	BOLT, M8X 40	1							
51	2	172164-73470	VALVE ASSY, RELIEF	1							
54	3	172164-73380	SPRING	1							
55	3	172164-73390	NUT	1							
56	3	172164-73510	SEAT, SPRING	1							
57	3	172141-74430	O-RING	1							
58	2	172456-73650	SPRING ASSY, CONTROL	1							
59	3	172179-73400	SEAT, SPRING	1							
60	3	172179-73430	SCREW, ADJUST	1							
61	3	172179-73460	NUT	1							
62	3	172456-73660	COVER	1							
63	3	172456-73670	SPRING	1							
64	3	172456-73680	SPRING	1							
65	3	172456-73690	SEAT, SPRING	1							
66	3	172456-73700	PLATE, SPRING	1							
67	3	172456-73710	SHIM	1							
68	3	172456-73720	SHIM	1							
69	3	172456-73730	SHIM	1							
70	3	24311-000090	O-RING, 1AP9.0	1							
71	3	24311-000180	O-RING, 1AP18.0	1							
72	3	26450-060202	BOLT, M6X 20	1							
73	2	172456-73740	PISTON ASSY, CONTROL	1							
74	3	172168-71500	PARALLEL PIN	1							
75	3	172168-71510	O-RING	1							
76	3	172168-71520	SPRING	2							
77	3	172168-71530	RETAINER	1							
78	3	172179-73510	PISTON	1							
79	3	172179-73540	O-RING	2							
80	3	172456-73750	CYLINDER	1							
81	3	172456-73770	PISTON, HYDRAULIC	2							
82	3	26450-060202	BOLT, M6X 20	2							
83	2	172456-73790	PUMP ASSY, GEAR	1							
84	3	172141-71520	RING	1							
85	3	172141-71550	O-RING	2							
86	3	172141-71560	RING	2							
87	3	172141-73220	PLATE	1							
88	3	172141-73230	GUIDE	2							
89	3	172456-73800	COVER	1							
90	3	172456-73810	COUPLING	1							
91	3	172456-73840	CIRCLIP	1							
92	3	172456-73850	PLATE	1							
93	3	24315-000060	O-RING, 1BP6.0	1							
94	3	24321-000900	O-RING, 1AG90.0	1							
95	3	26450-100252	BOLT, M10X 25	6							
96	2	172142-74670	PLUG	1							
97	2	172456-75430	PLUG, AIR VENT	1							
98	2	172456-75440	PUMP ASSY, TROCHOID	1							
99	3	172456-75450	GEAR	1							

Fig.40. HYD.OIL PUMP & JIONT(TO M36239)



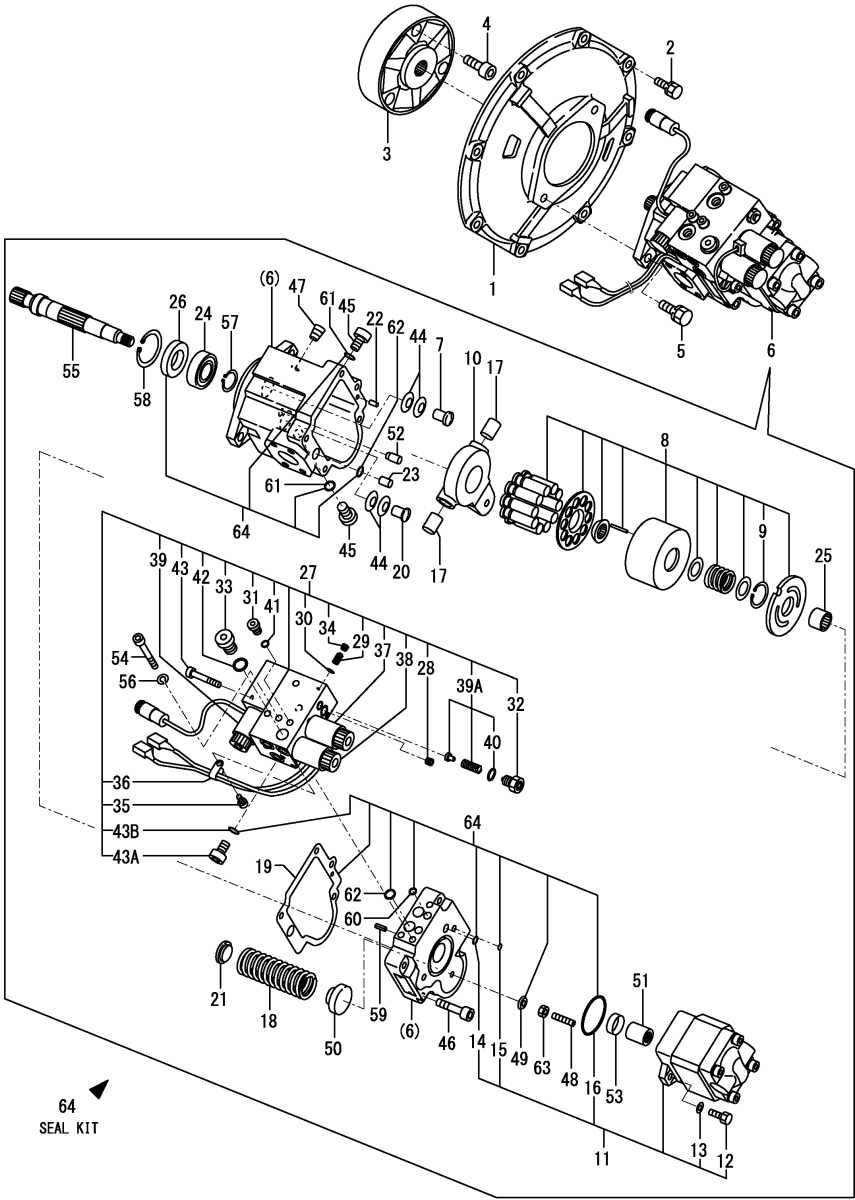
(A)=VIO20-3(KR)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
100	3	172456-75460	PIN, SPRING	1							
101	3	172456-75480	PLATE	1							
102	3	172187-75860	CASE	1							
103	3	172187-75870	PLATE	1							
104	3	172187-75880	O-RING	1							
105	3	172187-75910	PLATE	1							
106	3	172187-75920	PIN, SPRING	1							
107	3	26450-050122	BOLT, M5X 12	3							
108	2	24315-000140	O-RING, 1BP14.0	2							
109	1	172456-73070	SEAL SET	1							
110	2	172456-73140	SEAL, OIL	1							
111	2	172456-73150	O-RING	1							
112	2	172456-73930	ELEMENT, FILTER	1							
113	2	172456-73960	O-RING	2							
114	2	24311-000160	O-RING, 1AP16.0	2							
115	2	24321-000450	O-RING, 1AG45.0	1							
116	2	172179-73280	GASKET	1							
117	2	172456-73610	FILTER	1							
118	2	172141-74430	O-RING	1							
119	2	24311-000090	O-RING, 1AP9.0	1							
120	2	24311-000180	O-RING, 1AP18.0	1							
121	2	172168-71510	O-RING	1							
122	2	172179-73540	O-RING	2							
123	2	24315-000060	O-RING, 1BP6.0	1							
124	2	24321-000900	O-RING, 1AG90.0	1							
125	2	172187-75880	O-RING	1							
126	2	24315-000140	O-RING, 1BP14.0	2							
127	2	24315-000080	O-RING, 1BP8.0	1							
128	2	24315-000110	O-RING, 1BP11.0	1							
129	2	172141-71550	O-RING	2							
130	1	26013-120302	BOLT, M12X 30	2							

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

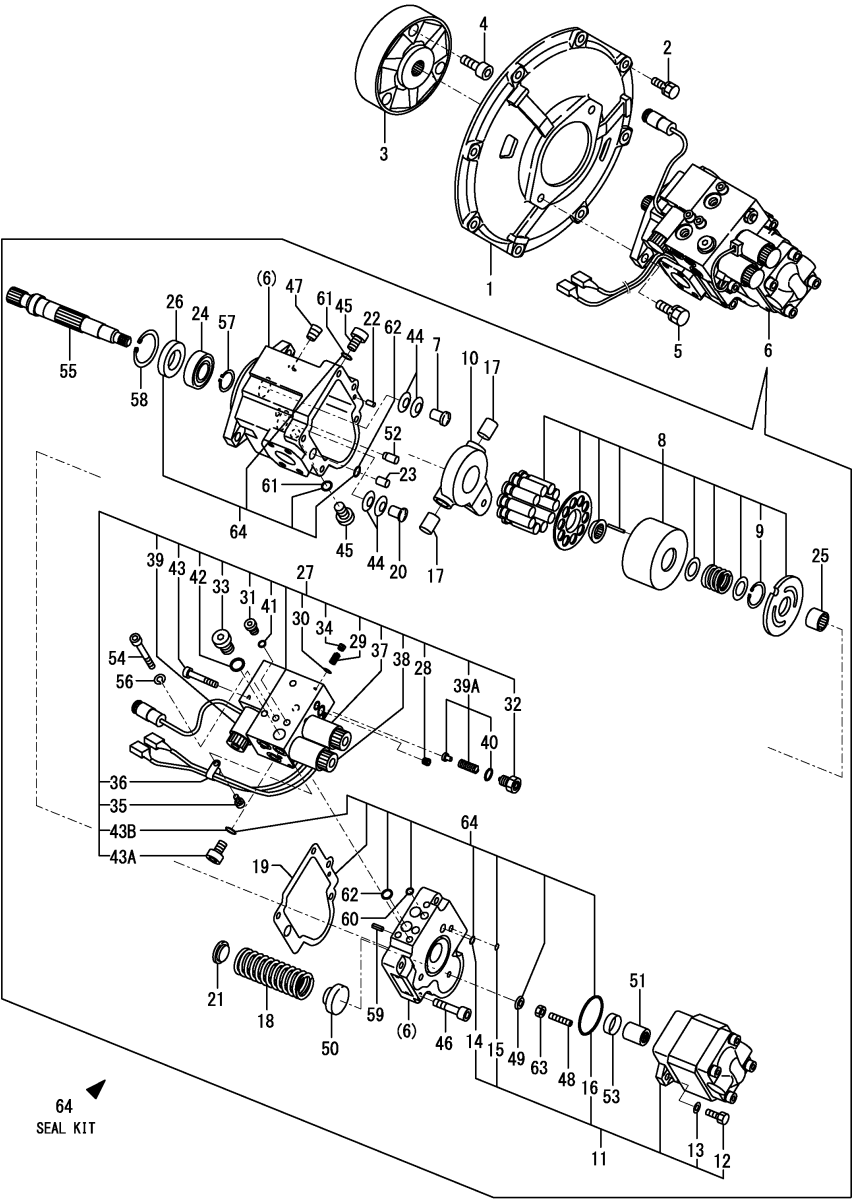
Fig.78. (40A)HYD.OIL PUMP & JIONT(FROM M36240)



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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172168-71101	COVER, FLYWHEEL	1							
2	1	26013-100302	BOLT, M10X 30	8							
3	1	172165-71200	COUPLING	1							
4	1	26450-120402	BOLT, M12X 40	3							
5	1	26013-120302	BOLT, M12X 30	2							
6	1	172A30-73100	PUMP ASSY, Q	1							
7	2	172450-73110	PIN,STOPPER	1							
8	2	172A23-73110	BARREL KIT, CYLINDER	1							
9	3	172448-73190	SNAP RING	1							
10	2	172422-73140	PLATE, SWASH	1							
11	2	172A23-73140	PUMP ASSY, GEAR	1							
12	3	172450-73120	BOLT, HEXAGON 8X25	2							
13	3	172450-73130	WASHER	2							
14	3	24315-000070	O-RING, 1BP7.0	1							
15	3	24315-000080	O-RING, 1BP8.0	1							
16	3	24325-000550	O-RING, 1BG55.0	1							
17	2	172422-73160	PIN, SWING	2							
18	2	172A23-73160	SPRING, T1	1							
19	2	172422-73170	GASKET	1							
20	2	172448-73180	PIN A,STOPPER	1							
21	2	172422-73200	HOLDER	1							
22	2	172422-73220	PIN	1							
23	2	172422-73280	PIN	1							
24	2	172422-73290	BEARING, BALL	1							
25	2	172422-73500	BEARING, NEEDLE	1							
26	2	172422-73510	SEAL, OIL	1							
27	2	172958-73510	BLOCK ASSY, VALVE	1							
27-1	2	172958-73511	BLOCK ASSY, VALVE	1							N
(A=M46211)											
27-2	2	172A30-73500	VALVE KIT, SOL	1							N
(A=MEF198)											
28	3	172422-73550	PLUG	8							
29	3	172422-73620	SPRING	1							
30	3	172422-73630	FILTER, COIN	1							
31	3	172458-73630	PLUG	1							
32	3	172422-73640	ADJUSTER KIT	1							
33	3	172458-73640	PLUG	1							
34	3	172422-73650	PLUG	2							
35	3	172422-73660	BOLT, HEX SOCKET	1							
36	3	172422-73670	BAND, BANDING	1							
37	3	172458-73680	VALVE, SC	1							1
38	3	172458-73690	VALVE, SC	1							2
39	3	172458-73790	VALVE, SOLENOID	1							3
39A	3	172A64-73280	RELIEF KIT	1							
40	4	24315-000100	O-RING, 1BP10.0	1							
41	3	24315-000080	O-RING, 1BP8.0	1							
42	3	24315-000140	O-RING, 1BP14.0	1							
43	3	26450-050452	BOLT, M5X 45	4							
43A	3	172422-73530	PLUG	1							
43B	3	24315-000110	O-RING, 1BP11.0	1							
44	2	172422-73520	SPRING	4							

Fig.78. (40A)HYD.OIL PUMP & JIONT(FROM M36240)



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

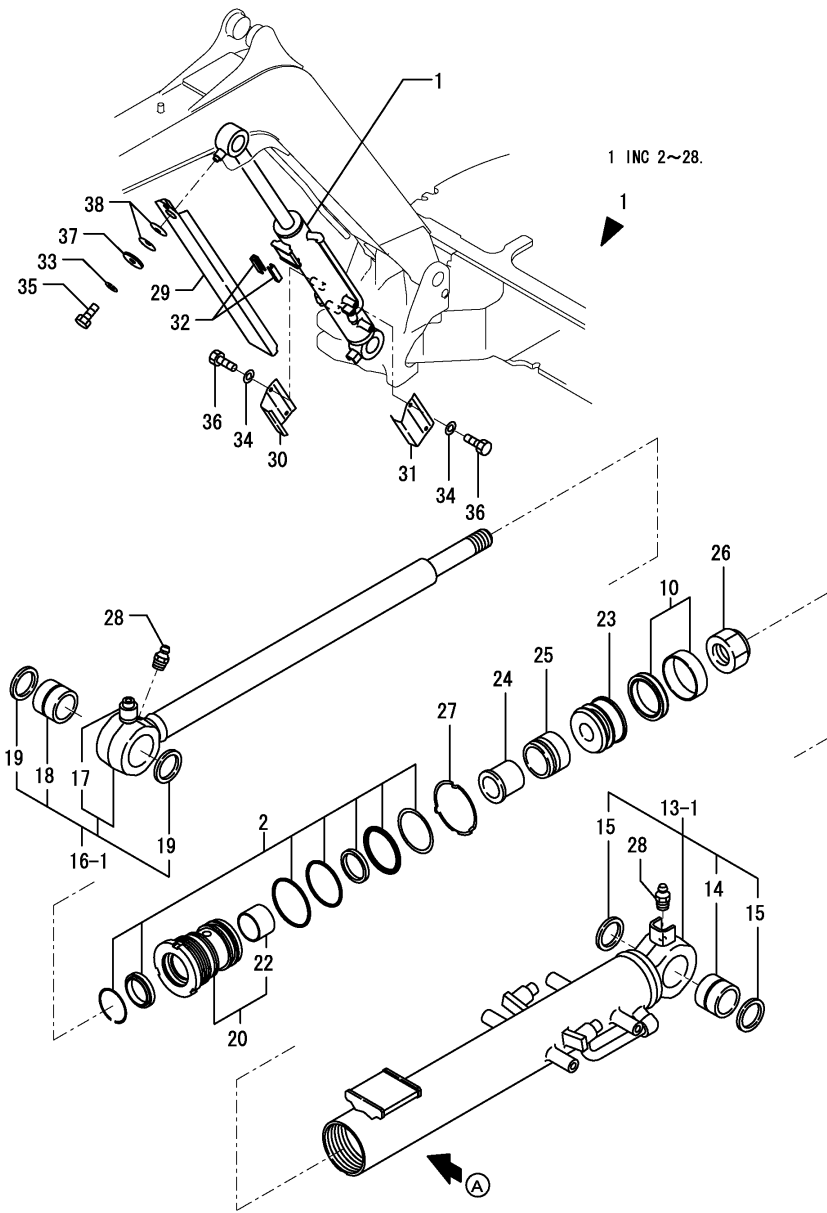
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
45	2	172422-73530	PLUG	2							
46	2	172422-73540	BOLT, HEX SOCKET	5							
47	2	172422-73550	PLUG	5							
48	2	172422-73560	SCREW, HEX. SOCKET	1							
49	2	172422-73570	WASHER, SEAL	1							
50	2	172458-73570	GUIDE, SPRING	1							
51	2	172422-73580	COUPLING	1							
52	2	172458-73580	ROD, G	1							
53	2	172422-73590	COLLAR	1							
54	2	172422-73610	BOLT, HEX SOCKET	3							
55	2	172458-73660	SHAFT	1							
56	2	22212-080000	WASHER 8	3							
57	2	22242-000250	RING, 25	1							
58	2	22252-000520	RING, 52	1							
59	2	22351-060016	PIN, SPRING 6.0X16	1							
60	2	24315-000080	O-RING, 1BP8.0	1							
61	2	24315-000110	O-RING, 1BP11.0	2							
62	2	24315-000120	O-RING, 1BP12.0	3							
63	2	26711-080002	NUT, M8	1							
64	1	172A23-73131	SEAL KIT,PUMP	1							

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

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

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



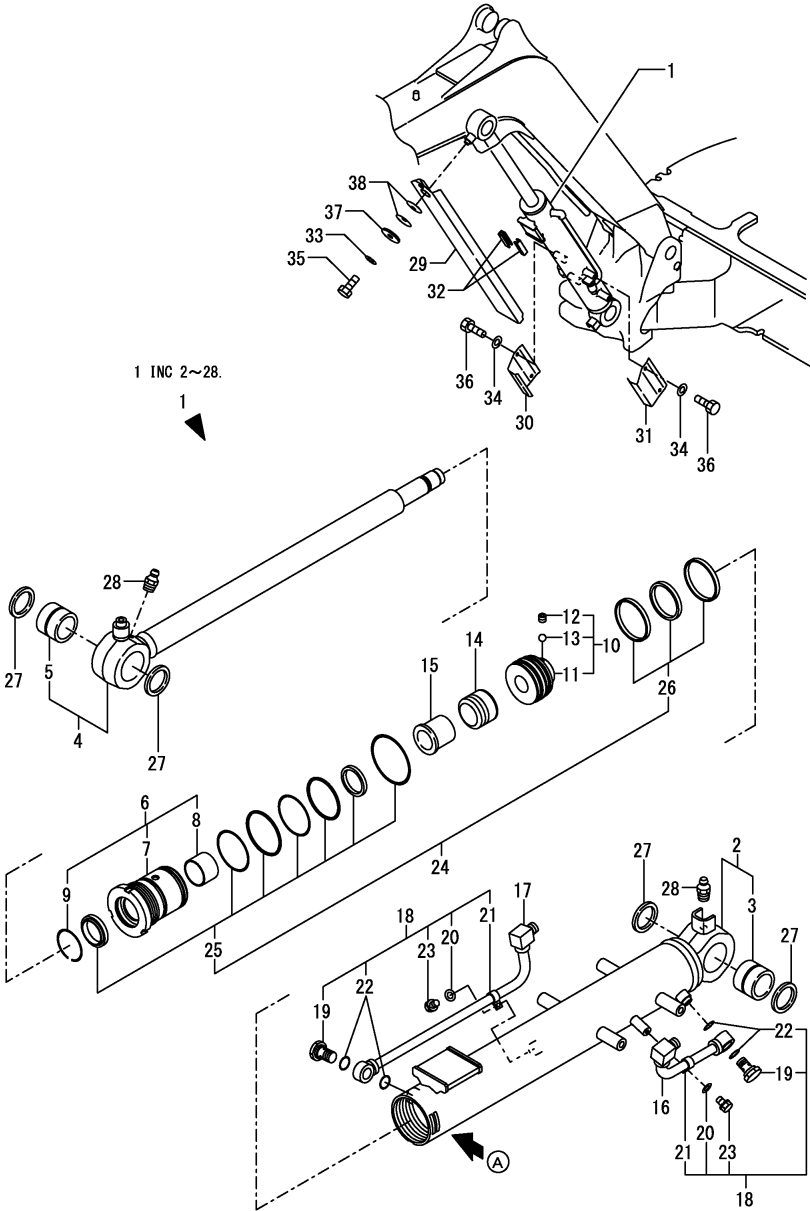
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-72100-1	CYLINDER ASSY, BOOM	1							
1-1	1	172456-72100-2	CYLINDER ASSY, BOOM	1						S	
(A=M34345)											
1-2	1	172456-72100-N	CYLINDER ASSY, BOOM	1						S	
(A=M45501)											
1-3	1	172456-72100-N	CYLINDER ASSY, BOOM	1						Z	2
(A=M3A333)											
2	2	172456-72010	SEAL SET, HEAD 70 40	1							
10	2	172460-72070	SEAL SET, PISTON	1							
13-1	2	172456-72250-1	TUBE ASSY, BOOM	1							
13-2	2	172456-72250-3	TUBE ASSY, BOOM	1						S	
(A=M34345)											
13-3	2	172456-72250-N	TUBE ASSY, BOOM	1						S	
(A=M45501)											
14	3	172168-72410	BUSH	1							
15	3	172448-72650	SEAL, DUST	2							
16-1	2	172456-72260	ROD ASSY,BOOM	1							
17	4	172168-72390	SEAT, SCREW M10X34.3	1							1
18	3	172168-72410	BUSH	1							
19	3	172448-72650	SEAL, DUST	2							
20	2	172456-72170	HEAD ASSY 70 40	1							
22	3	24550-040300	BUSH, 40X30	1							
23	2	172456-72190	PISTON	1							
24	2	172457-72190	COLLAR, 27 38	1							
25	2	172457-72200	PLUNGER 50,CUSHON	1							
26	2	172141-72250	NUT	1							
27	2	172141-72420	WASHER, LOCK	1							
28	2	24761-020000	NIPPLE, GREASE PT1/8	2							
29	1	172456-72200-1	COVER, SLIDE	1							
29-1	1	172456-72200-2	COVER, SLIDE	1						S	
(A=M34345)											
29-2	1	172456-72200-N	COVER, SLIDE	1						S	
(A=M45501)											
30	1	172457-72230-1	COVER ASSY, CYLINDER	1							
30-1	1	172457-72230-2	COVER ASSY, CYLINDER	1						S	
(A=M34345)											
30-2	1	172457-72230-N	COVER ASSY, CYLINDER	1						S	
(A=M45501)											
31	1	172457-72240-1	COVER, CYLINDER	1							
31-1	1	172457-72240-2	COVER, CYLINDER	1						S	
(A=M34345)											
31-2	1	172457-72240-N	COVER, CYLINDER	1						S	
(A=M45501)											
32	1	172186-72480	GUIDE, SLIDE	2							
33	1	22217-100000	WASHER, SPRING 10	1							
34	1	22217-100000	WASHER, SPRING 10	4							
35	1	26116-100162	BOLT, M10X 16 PLATED	1							
36	1	26116-100162	BOLT, M10X 16 PLATED	4							
37	1	933147-03400	WASHER, BRAKE ARM	1							
38	1	933168-14170	SPRING	2							

Remarks
(1)Welded part.
(2)A : no mark.
Interchangeable by Fig.80(41A) No.1.

Fig.80. (41A)BOOM CYLINDER(K SPEC.)

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

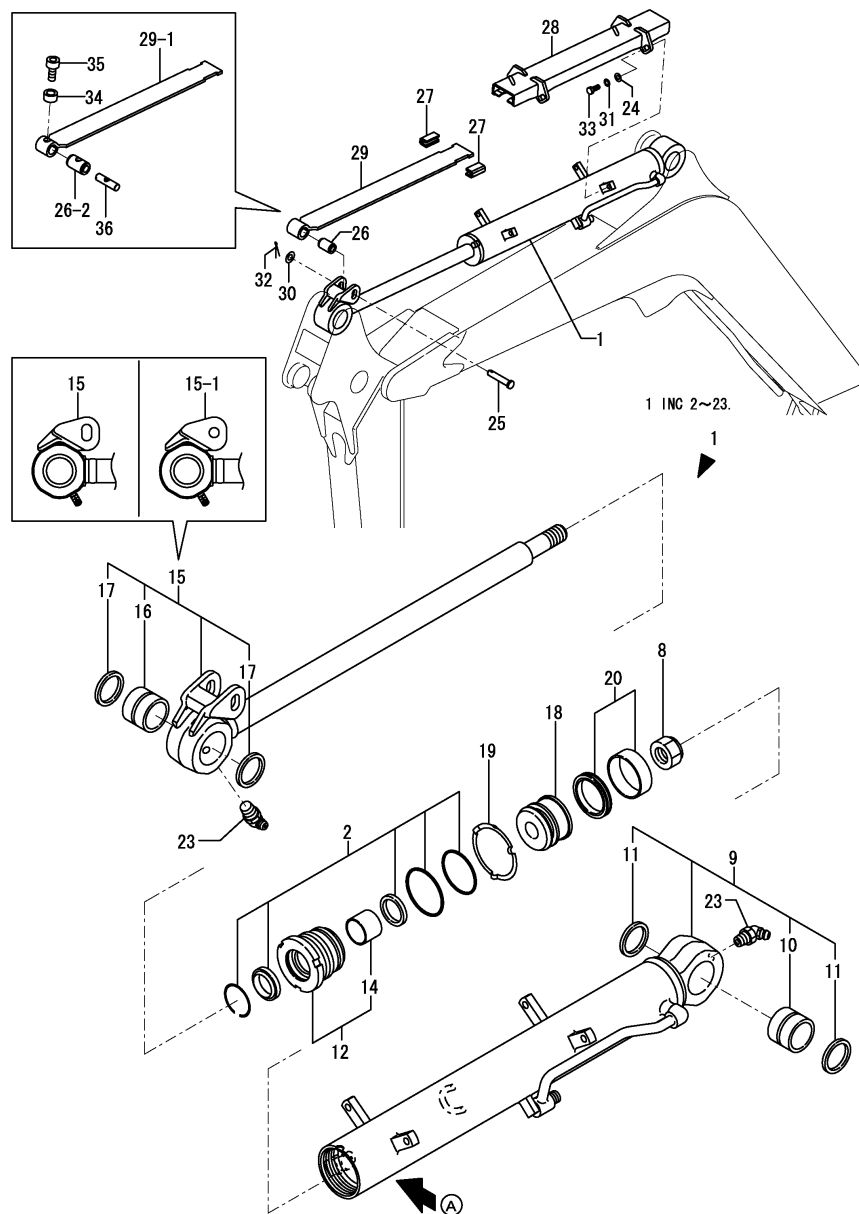
(D)=
(E)=
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A23-70100 (A=M3A333)	CYLINDER ASSY, BM P	1							W
1-1	1	172A23-70101 (A=M3A412)	CYLINDER ASSY, BM P	1							N
2	2	172A23-70110	TUBE ASSY	1							
2-1	2	172A23-70111 (A=M3A412)	TUBE ASSY	1							N
3	3	172A23-70120	BUSH, PIN 40	1							
4	2	172A23-70130	ROD ASSY	1							
5	3	172A23-70120	BUSH, PIN 40	1							
6	2	172A23-70140	HEAD ASSY	1							
7	3	172A23-70150	HEAD	1							
8	3	172A23-70160	BEARING, SLEEVE	1							
9	3	172A23-70210	RING, RETAINING	1							
10	2	172A23-70220	PISTON ASSY	1							
11	3	172A23-70230	PISTON	1							
12	3	172A23-70240	SCREW, M6	1							
13	3	24190-050002	BALL, STEEL 5/32	1							
14	2	172A23-70250	PLUNGER, CUSHION	1							
15	2	172A23-70260	COLLAR, CUSHION	1							
16	2	172A23-70270	PIPE ASSY	1							
17	2	172A23-70280	PIPE ASSY	1							
18	2	172A23-70290	PLUG ASSY	2							
19	3	172A23-70300	PLUG	2							
20	3	172A23-70310	WASHER	2							
21	3	172A23-70320	HOLDER, PIPE	2							
22	3	24315-000150	O-RING, 1BP15.0	4							
23	3	26013-080162	BOLT, SPRING M8X 16	2							
24	2	172A23-70330	SEAL KIT	1							
25	3	172A23-70340	SEAL KIT, HEAD	1							
26	3	172B04-72690	SEAL SET,PISTON 70	1							
27	2	172B04-72770	SEAL,DUST 40	4							
28	2	24761-020000	NIPPLE, GREASE PT1/8	2							
29	1	172456-72200-N	COVER, SLIDE	1							
30	1	172457-72230-N	COVER, BOOM CYL. R	1							
31	1	172457-72240-N	COVER, BOOM CYL. L	1							
32	1	172186-72480	GUIDE, SLIDE	2							
33	1	22217-100000	WASHER, SPRING 10	1							
34	1	22217-100000	WASHER, SPRING 10	4							
35	1	26116-100162	BOLT, M10X 16 PLATED	1							
36	1	26116-100162	BOLT, M10X 16 PLATED	4							
37	1	933147-03400	WASHER, BRAKE ARM	1							
38	1	933168-14170	SPRING	2							

Remarks
* A : There is parts No. & serial No.(172A23-70100, YSXXX).

Fig.42. ARM CYLINDER(Y SPEC.)



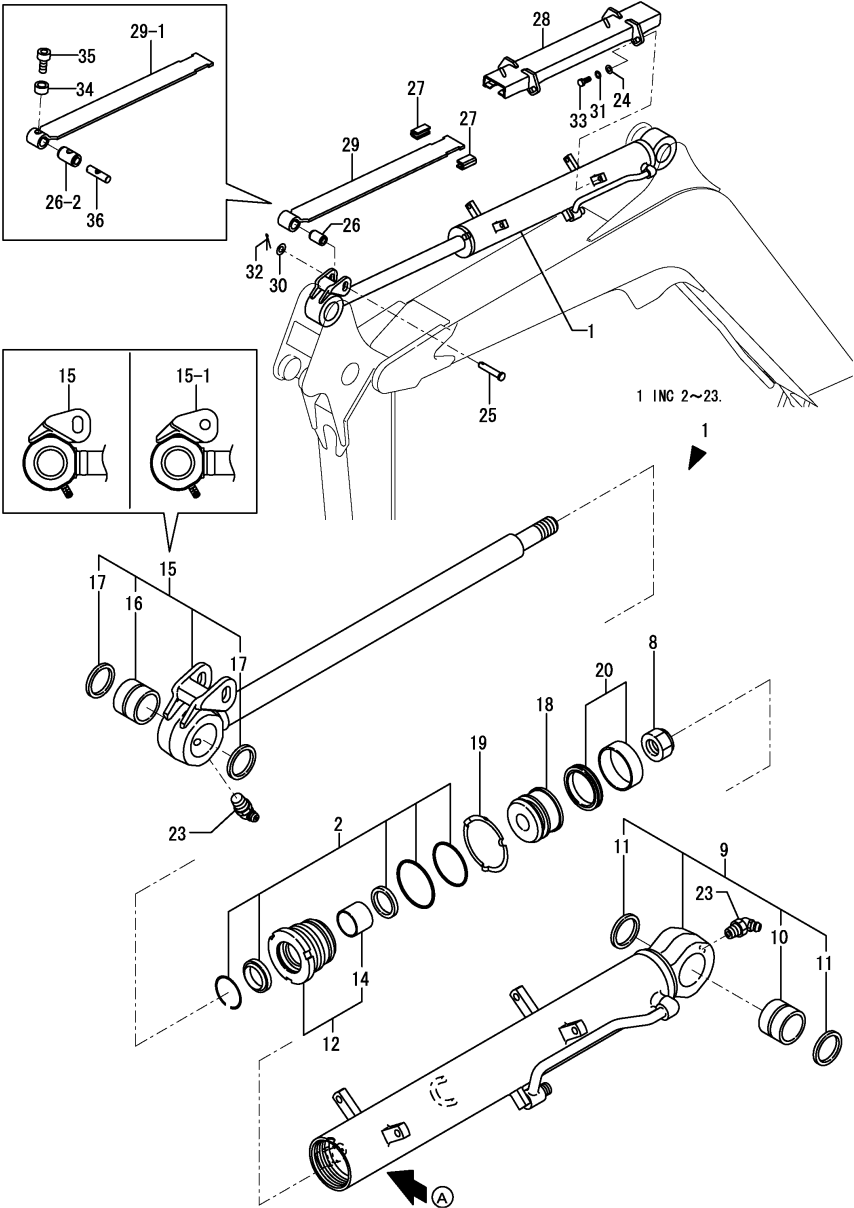
Interchangeable by Fig.81(42A) No.1.

				(A)=VIO20-3(KR) (B)= (C)=	(D)= (E)= (F)=					
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	Q'ty (D)	(E)	(F)	I R
1	1	172A23-72301-1	CYLINDER, ARM	1						
1-1	1	172A23-72302-1 (A=M/#33361)	CYLINDER, ARM	1						S
1-2	1	172A23-72302-3 (A=M34345)	CYLINDER, ARM	1						S
1-3	1	172A23-72302-N (A=M45501)	CYLINDER, ARM	1						S
1-4	1	172A23-72302-N (A=M45946)	CYLINDER, ARM	1						Z 2
2	2	172456-72020	SEAL SET, HEAD 65 35	1						
8	2	172171-72130	NUT, M24	1						
9	2	172A23-72320-1	TUBE, ARM	1						
9-1	2	172A23-72320-3 (A=M34345)	TUBE, ARM	1						S
9-2	2	172A23-72320-N (A=M45501)	TUBE, ARM	1						S
10	3	172168-72410	BUSH	1						
11	3	172448-72650	SEAL, DUST	2						
12	2	172173-72330	HEAD ASSY, 65 35	1						
14	3	24550-035300	BUSH, 35X30	1						
15	2	172A23-72340	ROD ASSY,ARM	1						
15-1	2	172A23-72341 (A=M/#33361)	ROD ASSY,ARM	1						S
16	3	172168-72410	BUSH	1						
17	3	172448-72650	SEAL, DUST	2						
18	2	172173-72352	PISTON 65 24	1						
19	2	172142-72560	WASHER, LOCK	1						
20	2	172148-72941	SEAL SET, PISTON	1						
23	2	24761-040000	NIPPLE, GREASE B	2						
24	1	172137-46040	SEAT, SPRING	4						
24-1	1	172A79-72570 (A=M35970)	WASHER	4						F 1
25	1	172A23-72041	PIN	1						
25-1	1	172A23-72042 (A=M/#30829)	PIN	1						N
25-2	1	172A23-72042 (A=M/#33361)	PIN	1						Z
26	1	172A23-72050	GROMMET	1						
26-1	1	172A23-72051	GROMMET	1						N
26-2	1	172A23-72052 (A=M/#33361) (A=M32769)	GROMMET	1						N
27	1	172A23-72081	GUIDE, SLIDE	2						
28	1	172A23-72061-1	GUIDE ASSY	1						
28-1	1	172A23-72061-3 (A=M34345)	GUIDE ASSY, 545	1						S
28-2	1	172A23-72062-2 (A=M45001)	GUIDE ASSY, 545	1						N
28-3	1	172A23-72062-N (A=M45501)	GUIDE ASSY, 545	1						S
29	1	172A23-72950-1	PLATE, SLIDE	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
++ CONTINUE ++ Copyright (C) YANMAR GLOBAL CS CO., LTD. All RightsReserved.

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

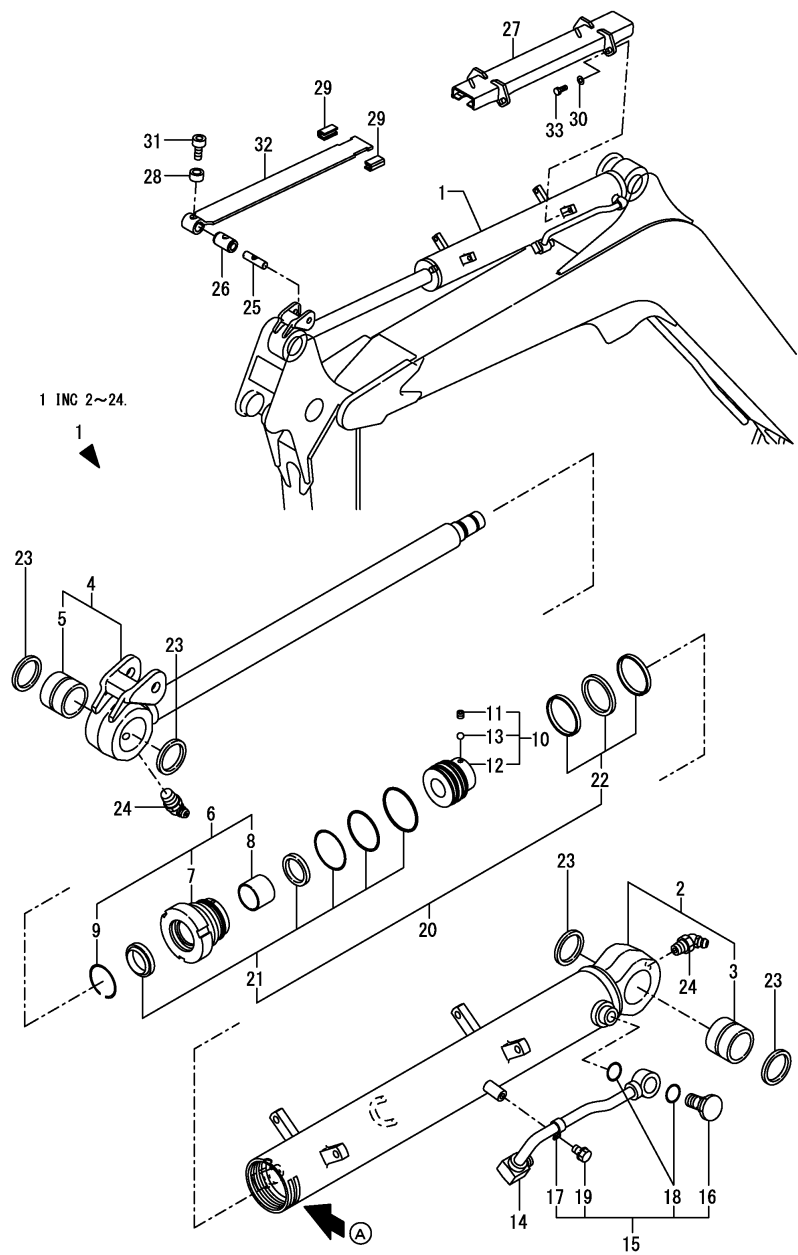
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(E)=
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
29-1	1	172A23-72951-3 (A=M/#33361)	PLATE,SLIDE 585 (87)	1						N	
29-2	2	172A23-72951-1 (A=M34345)	PLATE, SLIDE	1						S	
29-3	2	172A23-72951-N (A=M45501)	PLATE, SLIDE	1						S	
30	1	22137-140000	WASHER, 14	1							
30-1	1	172A23-72020 (A=M/#30829)	WASHER	1						R	
30-2	1	172A23-72020 (A=M/#33361)	WASHER	1						Z	
31	1	22217-100000 (A=M/#31474)	WASHER, SPRING 10	4						Z	
32	1	22417-500250 (A=M/#33361)	PIN, COTTER 5.0X25	1						Z	
33	1	26076-100202	BOLT, 10.910X 20	4							
33-1	1	26076-100252 (A=M35970)	BOLT, 10.910X 25	4						S	
34	1	172A46-72070 (A=M/#33361)	SPACER	1						W	
35	1	26450-060162 (A=M/#33361)	BOLT, M6X 16	1						W	
35-1	1	172A47-72840 (A=M34875)	BOLT	1						N	
36	1	172A23-72043 (A=M/#33361)	SHAFT	1						W	

Remarks
(1)Interchangeable by simultaneous replacement with No.33-1.
(2)A : no mark.
Interchangeable by Fig.81(42A) No.1.

OCS10-M46401 HYDRAULIC OIL EQUIPMENT
Fig.81. (42A)ARM CYLINDER(K SPEC.)



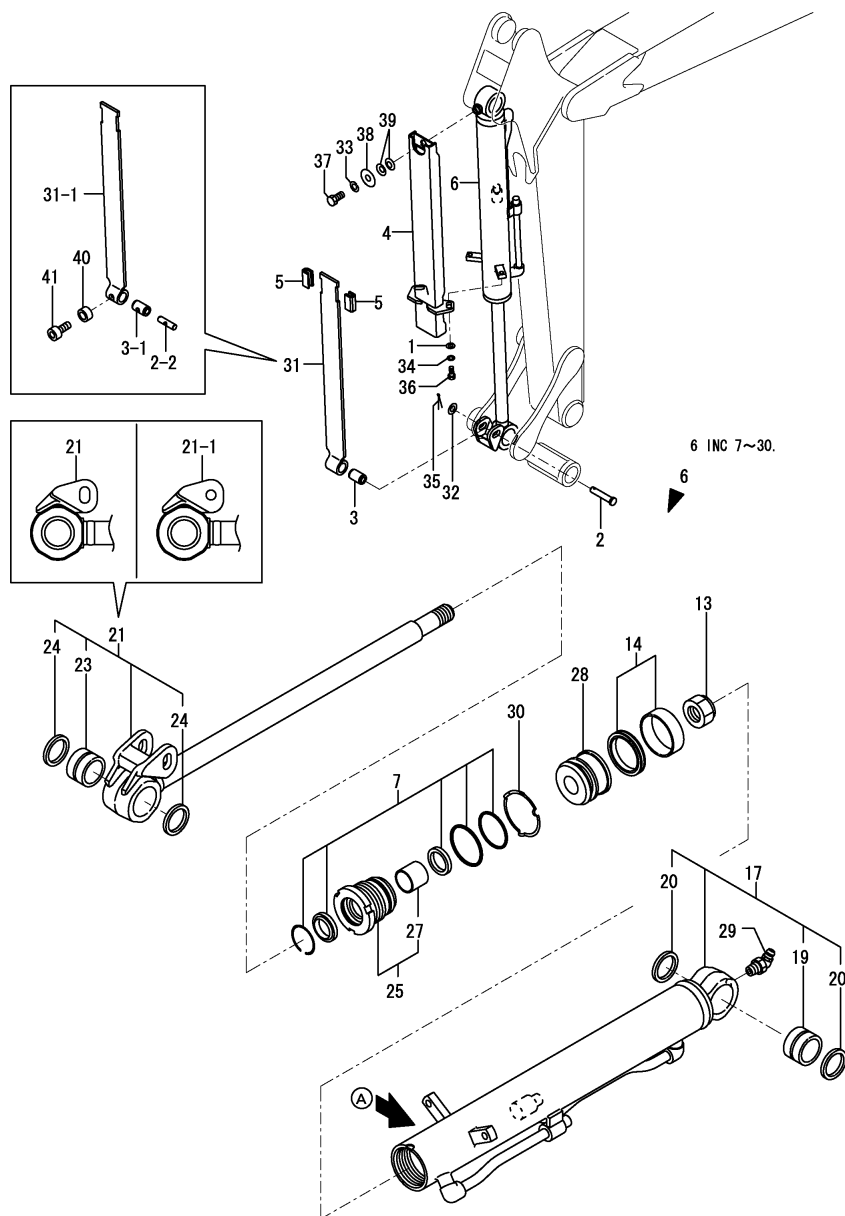
(A)=VIO20-3(KR)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A23-70500	CYLINDER ASSY,AM	1							W
		(A=M45946)									
2	2	172A23-70510	TUBE ASSY	1							
3	3	172A23-70120	BUSH, PIN 40	1							
4	2	172A23-70520	ROD ASSY	1							
5	3	172A23-70120	BUSH, PIN 40	1							
6	2	172A23-70530	HEAD ASSY	1							
7	3	172A23-70540	HEAD	1							
8	3	172A23-70550	BEARING, SLEEVE	1							
9	3	172A23-70560	RING, RETAINING	1							
10	2	172A23-70570	PISTON ASSY	1							
11	3	172A23-70240	SCREW, M6	1							
12	3	172A23-70580	PISTON	1							
13	3	24190-050002	BALL, STEEL 5/32	1							
14	2	172A23-70590	PIPE ASSY	1							
15	2	172A23-70600	PLUG ASSY	1							
16	3	172A23-70610	PLUG	1							
17	3	172A23-70620	HOLDER, PIPE	1							
18	3	24315-350220	O-RING, 1BP22A	2							
19	3	26013-080162	BOLT, SPRING M8X 16	1							
20	2	172A23-70630	SEAL KIT	1							
21	3	172A23-70640	SEAL KIT, HEAD	1							
22	3	172A23-70650	SEAL KIT, PISTON	1							
23	2	172B04-72770	SEAL,DUST 40	4							
24	2	24761-040000	NIPPLE, GREASE B	2							
25	1	172A23-72043	SHAFT	1							
26	1	172A23-72052	GROMMET	1							
27	1	172A23-72062-N	GUIDE ASSY, 545	1							
28	1	172A46-72070	SPACER	1							
29	1	172A23-72081	GUIDE, SLIDE	2							
30	1	172A79-72570	WASHER	4							
31	1	172A47-72840	BOLT	1							
32	1	172A23-72951-N	PLATE,SLIDE 585	1							
33	1	26076-100252	BOLT, 10.910X 25	4							

Remarks
* A : There is parts No. & serial No.(172A23-70500, YSXXX).

Fig.43. BUCKET CYLINDER(Y SPEC.)



Interchangeable by Fig.82(43A) No.1.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172137-46040	SEAT, SPRING	2							
1-1	1	172A79-72570 (A=M35970)	WASHER	2						F	1
2	1	172A23-72041	PIN	1							
2-1	1	172A23-72042 (A=M/#30829)	PIN	1						N	
2-2	1	172A23-72043 (A=M33669)	SHAFT	1						S	
3	1	172A23-72050	GROMMET	1							
3-1	1	172A23-72051 (A=M33669)	GROMMET	1						N	
3-2	1	172A23-72052 (A=M33669)	GROMMET	1						N	
4	1	172A23-72901-1	GUIDE ASSY	1							
4-1	1	172A23-72901-3	GUIDE ASSY, 595	1						S	
4-2	1	172A23-72902-1 (A=M34345) (A=M45001)	GUIDE ASSY, 595	1						N	
4-3	1	172A23-72902-N (A=M45501)	GUIDE ASSY, 595	1						S	
5	1	172A23-72081	GUIDE, SLIDE	2							
6	1	172A30-72501-1	CYLINDER ASSY	1							
6-1	1	172A30-72502-2 (A=M33669)	CYLINDER ASSY	1						S	
6-2	1	172A30-72502-1 (A=M34345)	CYLINDER ASSY	1						S	
6-3	1	172A30-72502-N (A=M45501)	CYLINDER ASSY	1						S	
6-4	1	172A30-72502-N (A=M3A348)	CYLINDER ASSY	1						Z	2
7	2	172457-72050	SEAL SET, HEAD	1							
13	2	172141-72250	NUT	1							
14	2	172137-72453	SEAL SET, PISTON 60A	1							
17	2	172A30-72520-1	TUBE, BUCKET	1							
17-1	2	172A30-72520-3 (A=M34345)	TUBE, BUCKET	1						S	
17-2	2	172A30-72520-N (A=M45501)	TUBE, BUCKET	1						S	
19	3	172141-72561	BUSH (35-45-30)	1							
20	3	172448-81610	SEAL, DUST 35X45X4	2							
21	2	172A30-72540	ROD,BUCKET Q	1							
21-1	2	172A30-72541 (A=M33669)	ROD ASSY,BUCKET Q	1						S	
23	3	172141-72561	BUSH (35-45-30)	1							
24	3	172448-81610	SEAL, DUST 35X45X4	2							
25	2	172141-72540	HEAD 6035, CYLINDER	1							
27	3	24550-035300	BUSH, 35X30	1							
28	2	172956-72560	PISTON 60	1							
29	2	24761-040000	NIPPLE, GREASE B	1							
30	2	933125-59600	WASHER 60 B, LOCK	1							
31	1	172A23-72950-1	PLATE, SLIDE	1							

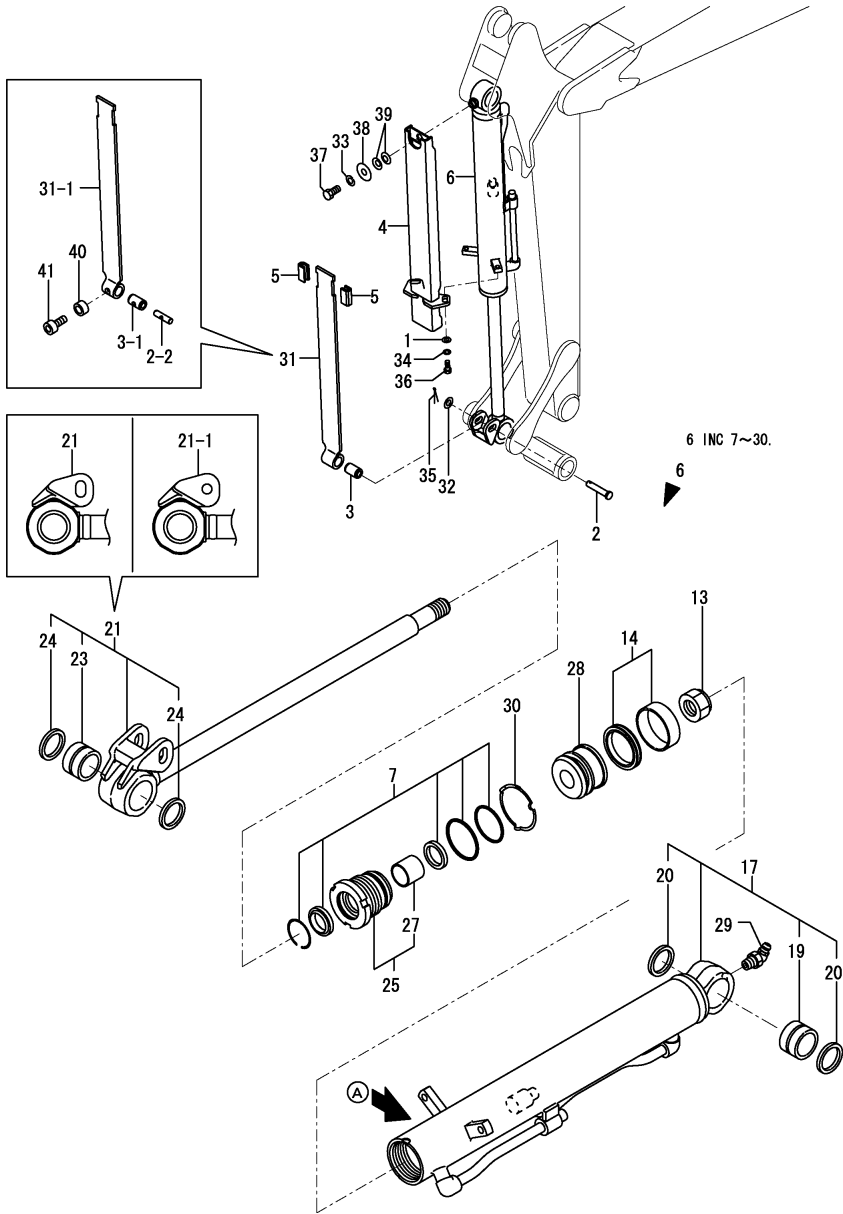
N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change

++ CONTINUE ++

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

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



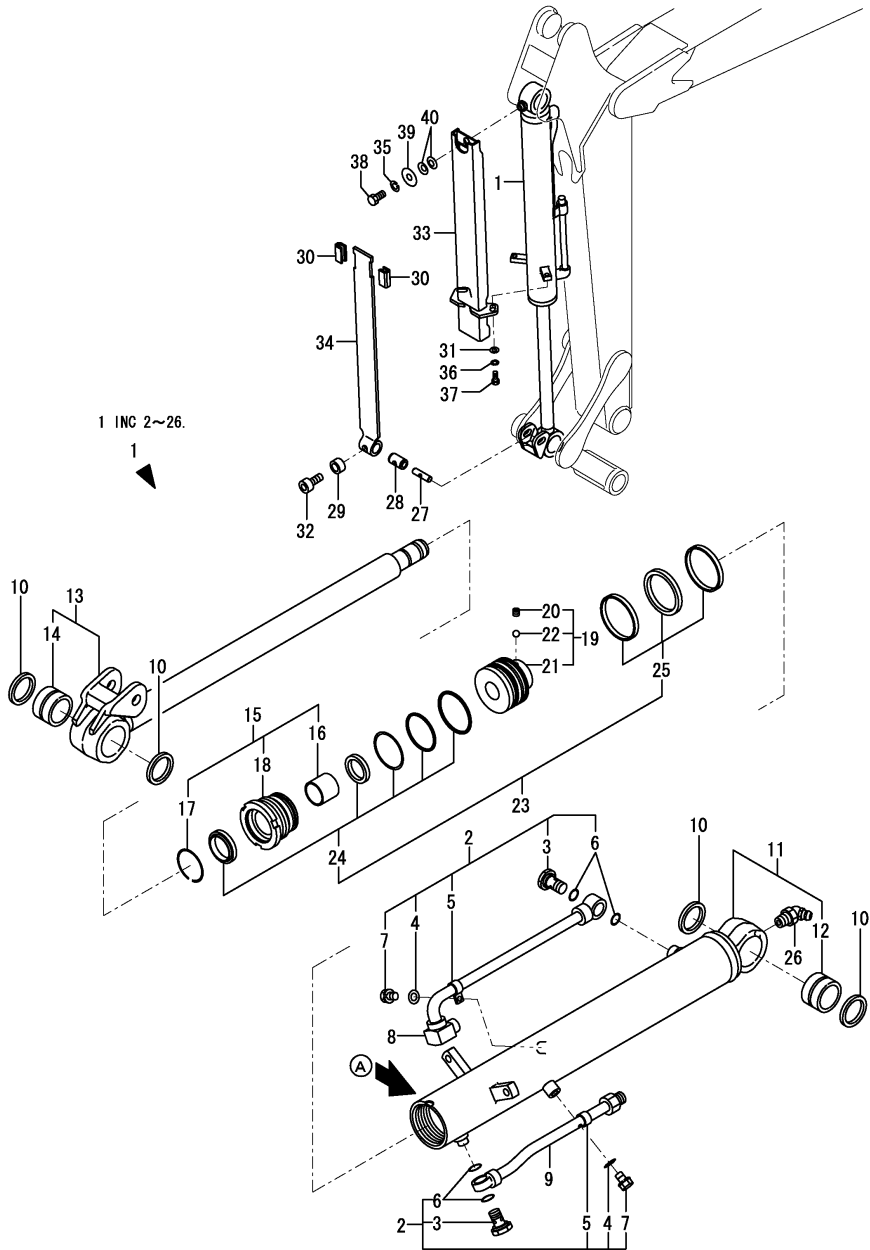
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
31-1	1	172A23-72951-3 (A=M33669)	PLATE,SLIDE 585 (87)	1						N	
31-2	1	172A23-72951-1 (A=M34345)	PLATE, SLIDE	1						S	
31-3	1	172A23-72951-N (A=M45501)	PLATE,SLIDE 585	1						S	
32	1	22137-140000	WASHER, 14	1							
32-1	1	172A23-72020 (A=M33669)	WASHER	1						R	
32-2	1	172A23-72020 (A=M33669)	WASHER	1						Z	
33	1	22217-100000	WASHER, SPRING 10	1							
34	1	22217-100000 (A=M/#31474)	WASHER, SPRING 10	2						Z	
35	1	22417-500250 (A=M33669)	PIN, COTTER 5.0X25	1						Z	
36	1	26076-100202	BOLT, 10.910X 20	2							
36-1	1	26076-100252 (A=M35970)	BOLT, 10.910X 25	2						S	
37	1	26116-100162	BOLT, M10X 16 PLATED	1							
38	1	933147-03400	WASHER, BRAKE ARM	1							
39	1	933168-14170	SPRING	2							
40	1	172A46-72070 (A=M33669)	SPACER	1						W	
41	1	26450-060162 (A=M33669)	BOLT, M6X 16	1						W	
41-1	1	172A47-72840 (A=M34875)	BOLT	1						N	

Remarks
(1)Interchangeable by simultaneous replacement with No.36-1.
(2)A : no mark.
Interchangeable by Fig.82(43A) No.1.

Fig.82. (43A)BUCKET CYLINDER(Q SPEC.)(K SPEC.)

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

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

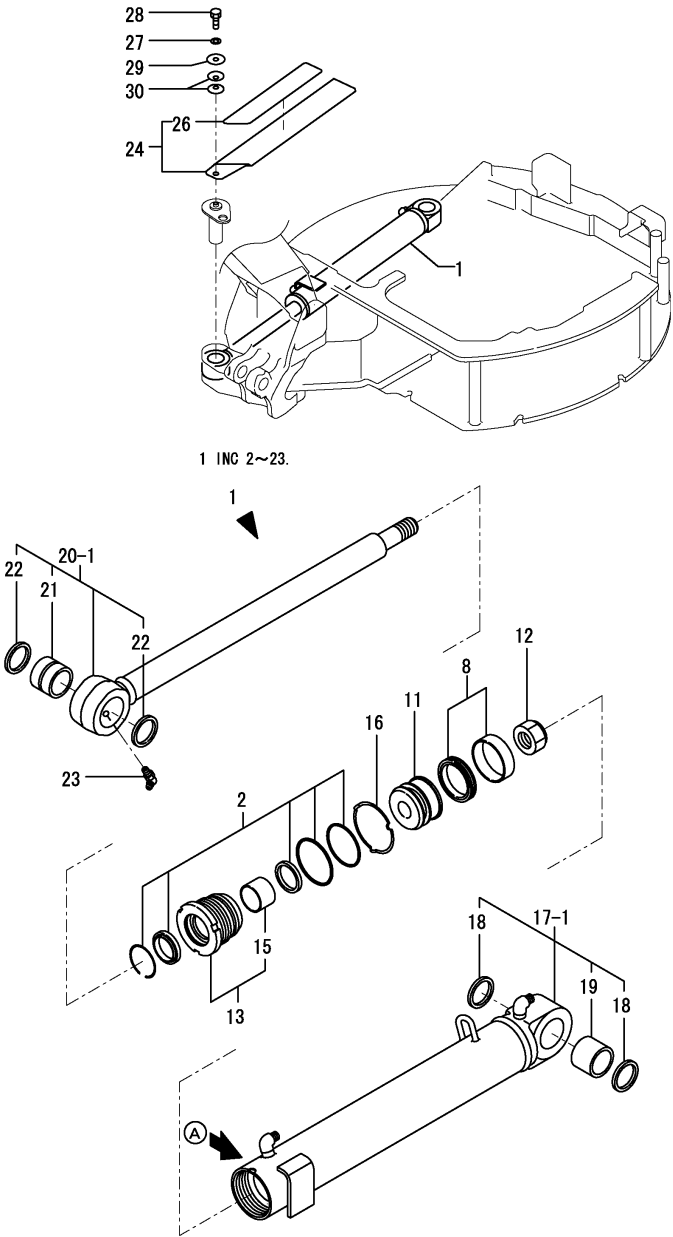


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A23-71100	CYLINDER ASSY, BKT Q	1							W
		(A=M3A348)									
2	2	172A23-70290	PLUG ASSY	2							
3	3	172A23-70300	PLUG	2							
4	3	172A23-70310	WASHER	2							
5	3	172A23-70320	HOLDER, PIPE	2							
6	3	24315-000150	O-RING, 1BP15.0	4							
7	3	26013-080162	BOLT, SPRING M8X 16	2							
8	2	172A23-70810	PIPE ASSY	1							
9	2	172A23-70820	PIPE ASSY	1							
10	2	172A23-70830	SEAL, DUST PIN 35	4							
11	2	172A23-71110	TUBE ASSY	1							
12	3	172A23-70720	BUSH, PIN 35	1							
13	2	172A23-71120	ROD ASSY	1							
14	3	172A23-70720	BUSH, PIN 35	1							
15	2	172A23-71130	HEAD ASSY	1							
16	3	172A23-70550	BEARING, SLEEVE	1							
17	3	172A23-70560	RING, RETAINING	1							
18	3	172A23-71140	HEAD	1							
19	2	172A23-71170	PISTON ASSY	1							
20	3	172A23-70800	SCREW, M6	1							
21	3	172A23-71180	PISTON	1							
22	3	24190-050002	BALL, STEEL 5/32	1							
23	2	172A23-71190	SEAL KIT	1							
24	3	172A23-71200	SEAL KIT, HEAD	1							
25	3	172A23-71210	SEAL KIT, PISTON	1							
26	2	24761-040000	NIPPLE, GREASE B	1							
27	1	172A23-72043	SHAFT	1							
28	1	172A23-72052	GROMMET	1							
29	1	172A46-72070	SPACER	1							
30	1	172A23-72081	GUIDE, SLIDE	2							
31	1	172A79-72570	WASHER	2							
32	1	172A47-72840	BOLT	1							
33	1	172A23-72902-N	GUIDE ASSY, 595	1							
34	1	172A23-72951-N	PLATE,SLIDE 585	1							
35	1	22217-100000	WASHER, SPRING 10	1							
36	1	22217-100000	WASHER, SPRING 10	2							
37	1	26076-100252	BOLT, 10.910X 25	2							
38	1	26116-100162	BOLT, M10X 16 PLATED	1							
39	1	933147-03400	WASHER, BRAKE ARM	1							
40	1	933168-14170	SPRING	2							

Remarks
* A : There is parts No. & serial No.(172A23-71100, YSXXX).

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

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



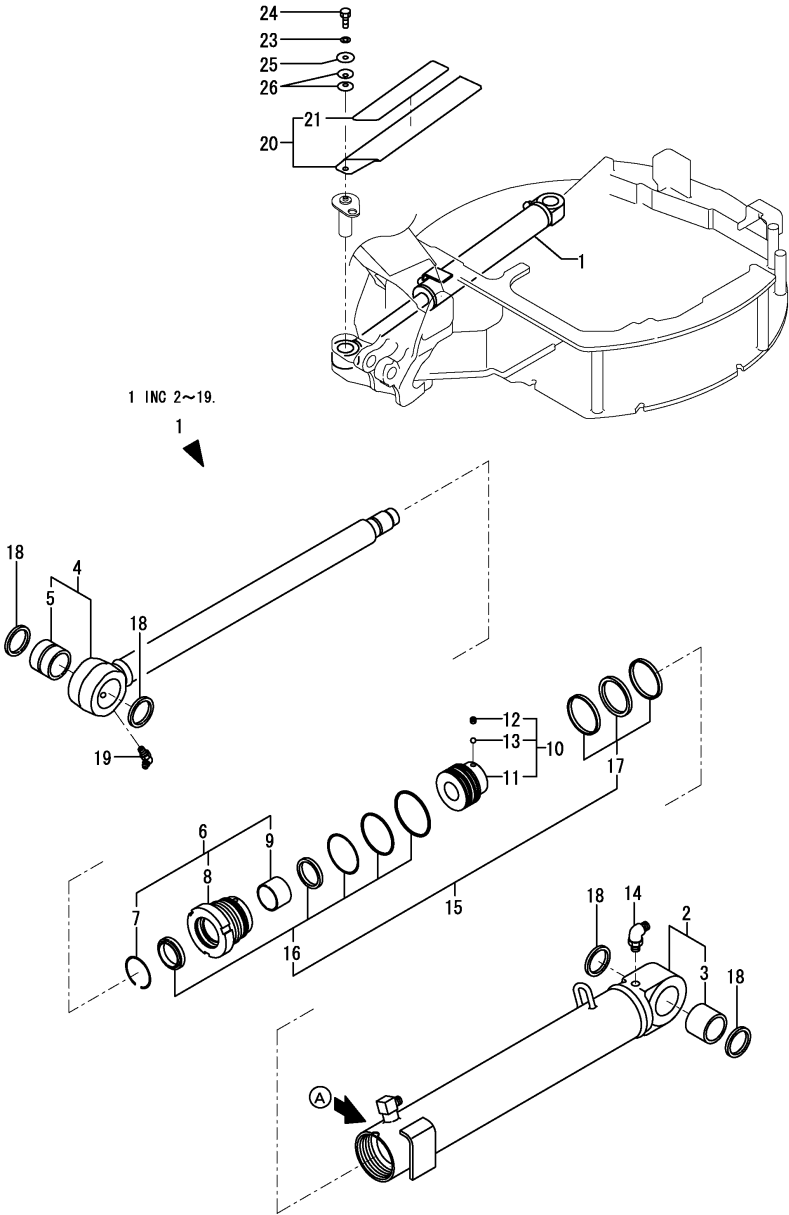
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-72700-1	CYLINDER ASSY, SWING	1							
1-1	1	172456-72700-2	CYLINDER ASSY, SWING	1						S	
(A=M/#32643)											
1-2	1	172456-72700-2	CYLINDER ASSY, SWING	1						Z	1
(A=M3A331)											
2	2	172456-72050	SEAL SET, HEAD	1							
8	2	172460-72070	SEAL SET, PISTON	1							
11	2	172456-72190	PISTON	1							
12	2	172141-72250	NUT	1							
13	2	172143-72400	HEAD 70 40	1							
15	3	24550-040300	BUSH, 40X30	1							
16	2	172141-72420	WASHER, LOCK	1							
17-1	2	172456-72850-1	TUBE ASSY, SWING	1							
17-2	2	172456-72850-2	TUBE ASSY, SWING	1						S	
(A=M/#32643)											
18	3	172448-72650	SEAL, DUST	2							
19	3	172458-72740	BUSH	1							
20-1	2	172456-72860	ROD ASSY, SWING	1							
21	3	172165-72310	BUSH	1							
22	3	172448-72650	SEAL, DUST	2							
23	2	24761-050000	NIPPLE, GREASE C	1							
24	1	172456-72790-1	COVER, SWING	1							
24-1	1	172456-72790-2	COVER, SWING	1						S	
(A=M/#32643)											
26	2	172456-72830	SEAT, COVER	1							
26-1	2	172164-62431	SHEET	1						R	
(A=M36153)											
27	1	22217-100000	WASHER, SPRING 10	1							
28	1	26116-100162	BOLT, M10X 16 PLATED	1							
29	1	933147-03400	WASHER, BRAKE ARM	1							
30	1	933168-14170	SPRING	2							

Remarks
(1)A : no mark.
Interchangeable by Fig.83(44A) No.1.

Fig.83. (44A)SWING CYLINDER(K SPEC.)

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

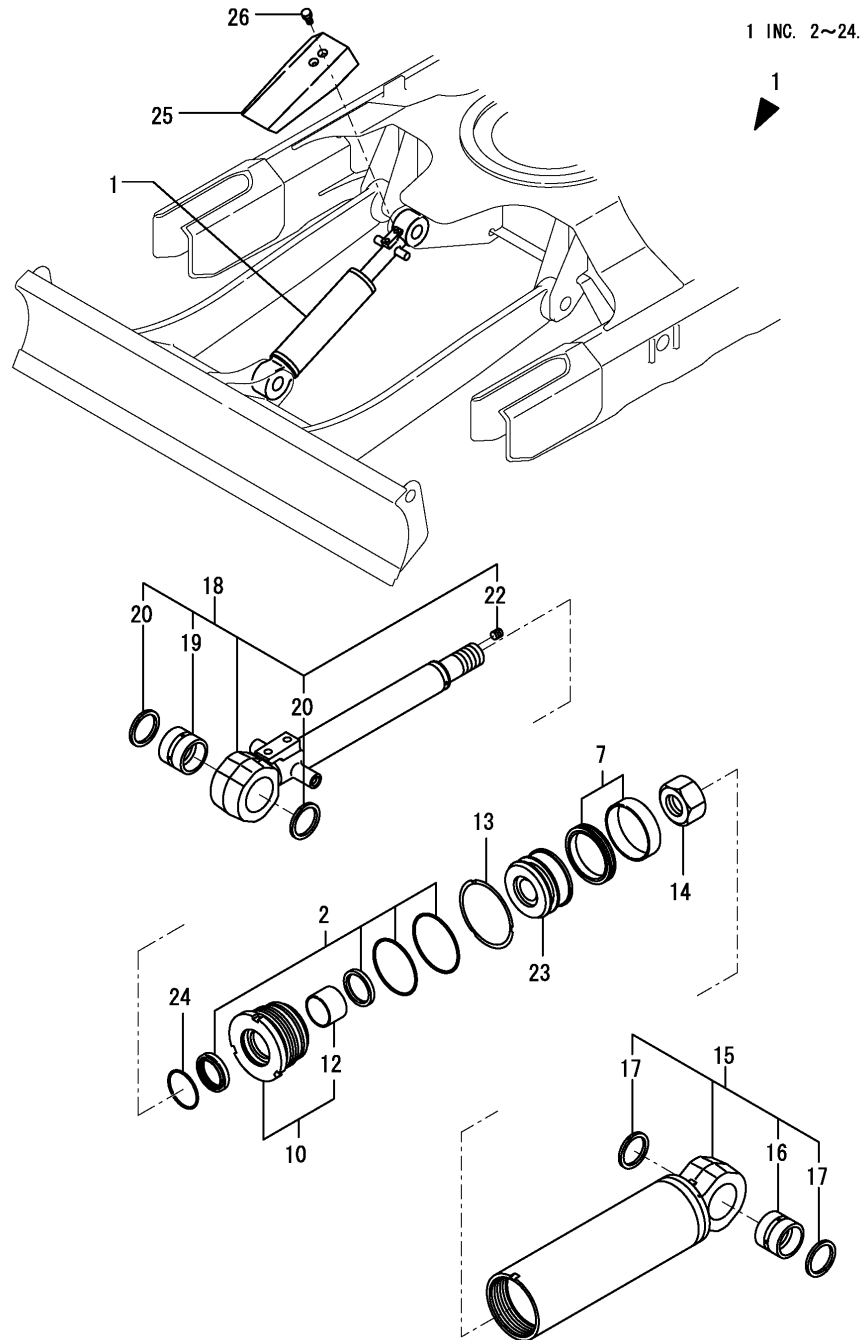
(D)=
(E)=
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A23-71400 (A=M3A331)	CYLINDER ASSY, SWING	1							W
2	2	172A23-71410	TUBE ASSY	1							
3	3	172A23-71420	BUSH, PIN 40	1							
4	2	172A23-71430	ROD ASSY	1							
5	3	172A23-70120	BUSH, PIN 40	1							
6	2	172A23-71440	HEAD ASSY	1							
7	3	172A23-70210	RING, RETAINING	1							
8	3	172A23-71450	HEAD	1							
9	3	172A23-71460	BEARING, SLEEVE	1							
10	2	172A23-71470	PISTON ASSY	1							
11	3	172A23-71480	PISTON	1							
12	3	172A79-72870	SCREW,M8	1							
13	3	24190-070002	BALL, STEEL 7/32	1							
14	2	172A23-71490	ELBOW, G1/4	1							
15	2	172A23-71500	SEAL KIT	1							
16	3	172A23-71510	SEAL KIT, HEAD	1							
17	3	172B04-72690	SEAL SET,PISTON 70	1							
18	2	172B04-72770	SEAL,DUST 40	4							
19	2	24761-050000	NIPPLE, GREASE C	1							
20	1	172456-72790-2	COVER, SWING	1							
21	2	172164-62431	SHEET	1							
23	1	22217-100000	WASHER, SPRING 10	1							
24	1	26116-100162	BOLT, M10X 16 PLATED	1							
25	1	933147-03400	WASHER, BRAKE ARM	1							
26	1	933168-14170	SPRING	2							

Remarks
* A : There is parts No. & serial No.(172A23-71400, YSXXX).

Fig.45. BLADE CYLINDER

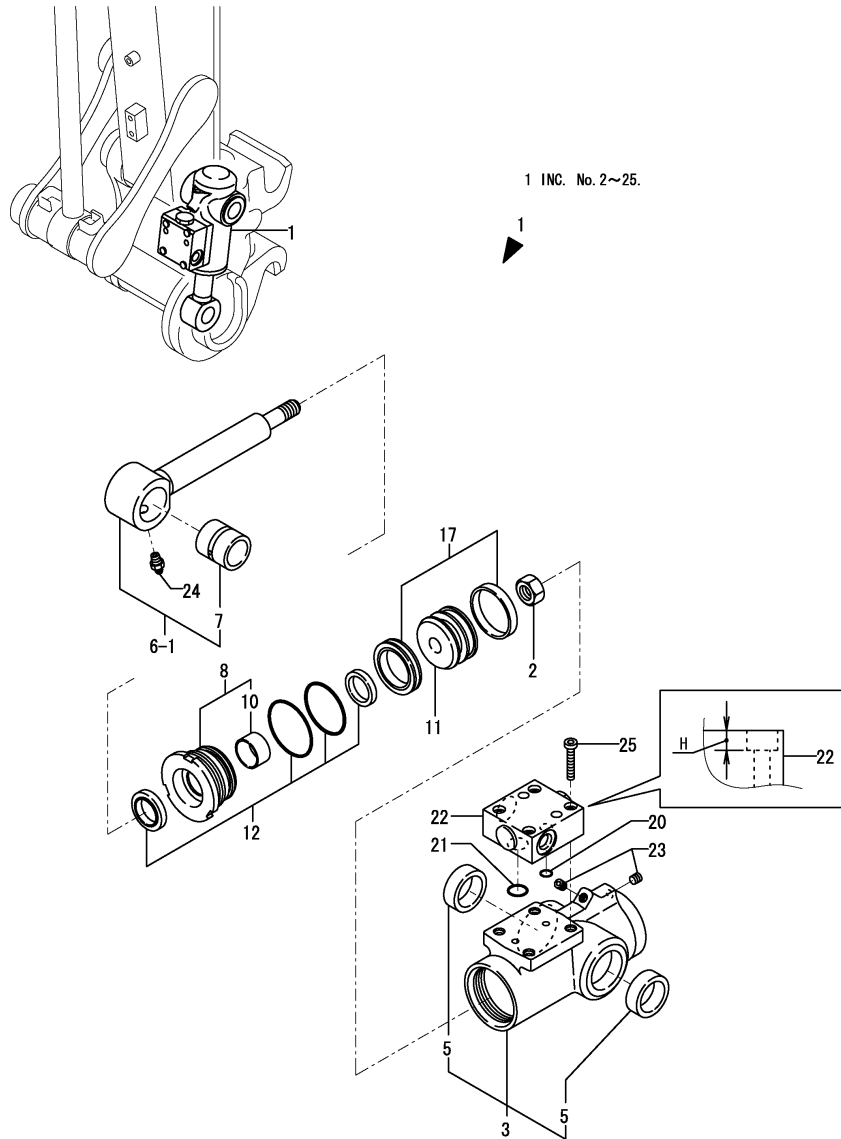


(A)=VIO20-3(KR)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172421-72700-1	CYLINDER ASSY, BLADE	1							
1-1	1	172421-72700-2	CYLINDER ASSY, BLADE	1							S
		(A=M/#32643)									
2	2	172168-72020	SEAL SET, HEAD 70X40	1							
7	2	172460-72070	SEAL SET, PISTON	1							
10	2	172143-72400	HEAD 70 40	1							
12	3	24550-040300	BUSH, 40X30	1							
13	2	172141-72420	WASHER 70, LOCK	1							
14	2	172175-72550	NUT	1							
15	2	172421-72610-1	TUBE ASSY, BLADE	1							
15-1	2	172421-72610-2	TUBE ASSY, BLADE	1							S
		(A=M/#32643)									
16	3	172168-72240	BUSH 38X50X40	1							
17	3	172168-81270	SEAL, DUST	2							
18	2	172421-72620	ROD ASSY,BLADE	1							
19	3	172168-72240	BUSH 38X50X40	1							
20	3	172168-81270	SEAL, DUST	2							
22	4	23871-005000	PLUG, R005	1							
23	2	172421-72770	PISTON 70 30	1							
24	2	933111-26600	RING 55, SPRING	1							
25	1	172422-72790-3	COVER, BLADE	1							
25-1	1	172422-72790-2	COVER, BLADE	1							S
		(A=M/#32643)									
25-2	1	172422-72791-5	COVER, BLADE	1							N
		(A=M/#35241)									
25-3	1	172A23-72800	COVER ASSY, BLADE	1							N
		(A=M45001)									
26	1	26013-100202	BOLT, M10X 20	2							

Fig.46. HITCH CYLINDER



Remarks
(1)H=Ref.No.22 4mm, No.22-1 8mm.
Interchangeable by simultaneous
replacement with Ref.No.25-1.

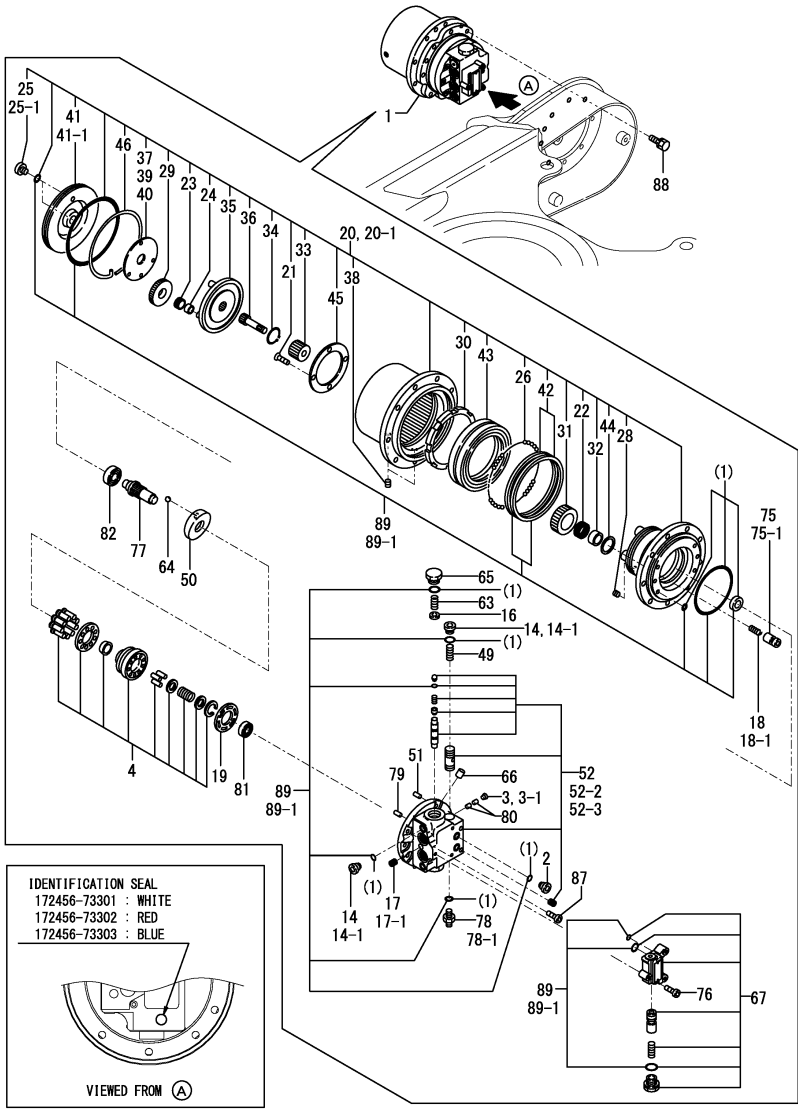
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D) Q'ty (E)= (F)=	I	R
1	1	172956-72800-1	CYLINDER ASSY, HITCH	1					
1-1	1	172956-72800-3 (A=M34345)	CYLINDER ASSY, HITCH	1				S	
1-2	1	172956-72800-N (A=M45501)	CYLINDER ASSY, HITCH	1				S	
2	2	172156-72400	NUT	1					
3	2	172956-72810-1	TUBE, HITCH	1					
3-1	2	172956-72810-3 (A=M34345)	TUBE, HITCH	1				S	
3-2	2	172956-72810-N (A=M45501)	TUBE, HITCH	1				S	
5	3	172956-72880	BUSH (25-33-14.5	2					
6-1	2	172956-72920	ROD ASSY,HITCH	1					
7	3	172156-84440	BUSH 25X 35	1					
8	2	172956-72860	HEAD ASSY 45 25	1					
10	3	24550-025150	BUSH, 25X15	1					
11	2	172956-72890	PISTON 45 25	1					
12	2	172956-72900	SEAL SET, HEAD 45 25	1					
17	2	172956-72910	SEAL SET, PISTON	1					
20	2	172958-72950	O-RING	1					
21	2	172958-72960	O-RING	1					
22	2	172958-72982-1	VALVE, CHECK	1					
22-1	2	172958-72982-2 (A=M34345)	VALVE, CHECK	1				S	
22-2	2	172958-72983 (A=MZZZZZ)	VALVE ASSY,OPERATE	1				F	1
22-3	2	172958-72983-N (A=M45501)	VALVE ASSY,OPERATE	1				S	
23	2	23871-005000	PLUG, R005	2					
24	2	24761-020000	NIPPLE, GREASE PT1/8	1					
25	2	26450-060352	BOLT, M6X 35	4					
25-1	2	26450-060302 (A=MZZZZZ)	BOLT, M6X 30	1				S	

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

Fig.47. TRAVEL MOTOR

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

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



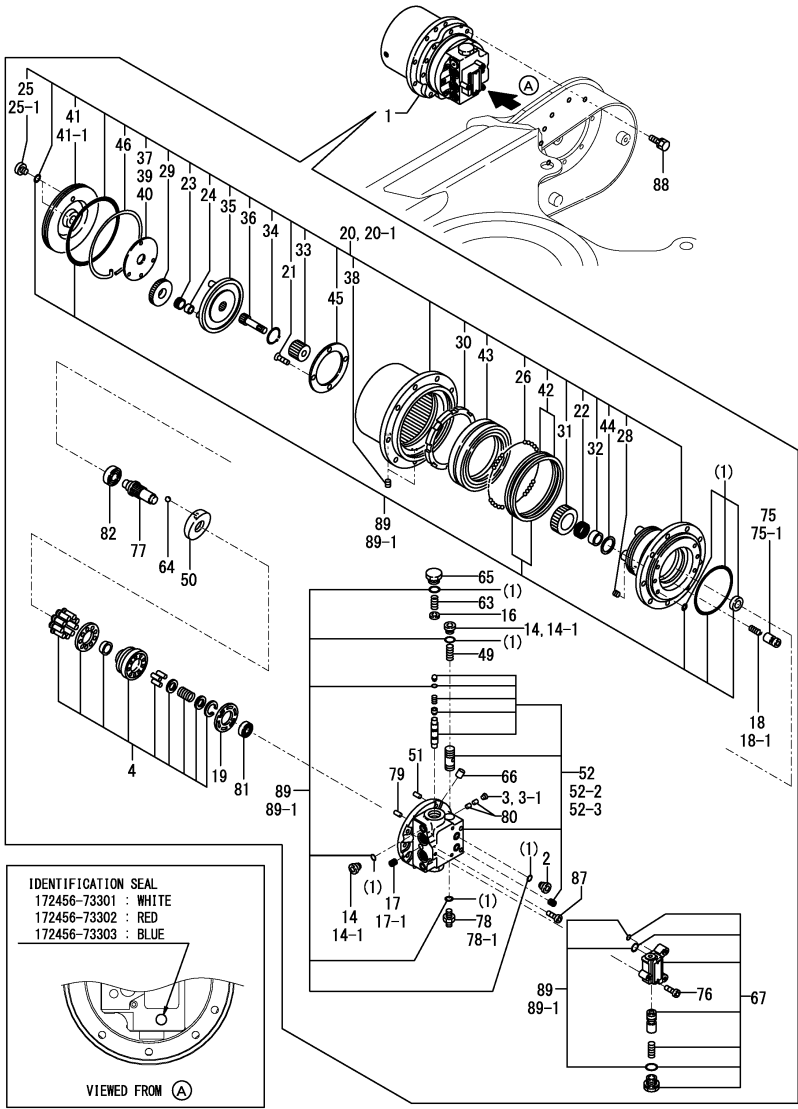
Remarks
(1)IDENTIFICATION SEAL COLOR : WHITE
(2)IDENTIFICATION SEAL COLOR : RED
(3)IDENTIFICATION SEAL COLOR:BLUE
(4)No.25 is PF : 1/4, No.25-1 is PF : 3/8
No.25-1 & 41-1 interchangeable by set.
(5)IDENTIFICATION SEAL COLOR:BLUE
No.3-1, 17-1 & 52-3 interchangeable by set.

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-73300	MOTOR ASSY,TRAVEL	2							
1-1	1	172456-73301	MOTOR ASSY, TRAVEL	2						N	1
(A=M31553)											
1-2	1	172456-73302	MOTOR ASSY, TRAVEL	2						N	2
(A=M33831)											
1-3	1	172456-73303	MOTOR ASSY,TRAVELING	2						N	3
(A=M46230)											
2	2	1A6240-37360	PLUG	4							
3	2	172147-70220	PLUG	4							2
3-1	2	172B03-73330	PLUG	4						S	5
(A=M46230)											
4	2	172450-73620	BLOCK KIT, CYLINDER	2							
4-1	2	172450-73621	CYLINDER BLOCK KIT	2						N	
(A=M46230)											
14	2	172148-70301	PLUG	6						Z	1
(A=M33831)											
14-1	2	172A23-73530	PLUG	6						W	2
(A=M33831)											
16	2	172141-70450	SEAT, SPRING	4							
17	2	172162-70780	PLUG	2							2
17-1	2	172B03-73340	PLUG, M10X1.5	2						S	5
(A=M46230)											
18	2	172168-71950	SPRING	4							1
18-1	2	172168-71951	SPRING	4						S	2
(A=M33831)											
19	2	172638-73330	PLATE, VALVE	2							
19-1	2	172B03-73290	PLATE, VALVE	2						N	
(A=M46230)											
20	2	172456-73340	GEAR, REDUCTION	2						Z	1
(A=M33831)											
20-1	2	172A23-73510	GEAR, REDUCTION	2						W	2
(A=M33831)											
20-2	2	172A23-73511	REDUCTION GEAR	2						N	
(A=M46230)											
21	3	172141-70110	SCREW	8							
22	3	172147-70120	GAUGE ASSY	8							
23	3	172141-70150	GAUGE, W/ROLLER	6							
24	3	172141-70160	RACE, INNER	6							
25	3	172148-70301	PLUG	4							
25-1	3	172147-70500	PLUG	4						S	4
(A=M46230)											
26	3	172122-70350	BALL, STEEL	218							
28	3	172450-73330	PLUG	4							
29	3	172421-73350	GEAR, PLANETARY	6							
30	3	172456-73350	NUT, RING	2							
30-1	3	172456-73351	NUT, RING	2							N
(A=M35238)											
31	3	172456-73360	GEAR, PLANETARY	8							
32	3	172456-73370	INNER RACE	8							
33	3	172456-73380	GEAR, SUN	2							
33-1	3	172456-73980	GEAR, SUN	2							R

Fig.47. TRAVEL MOTOR

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

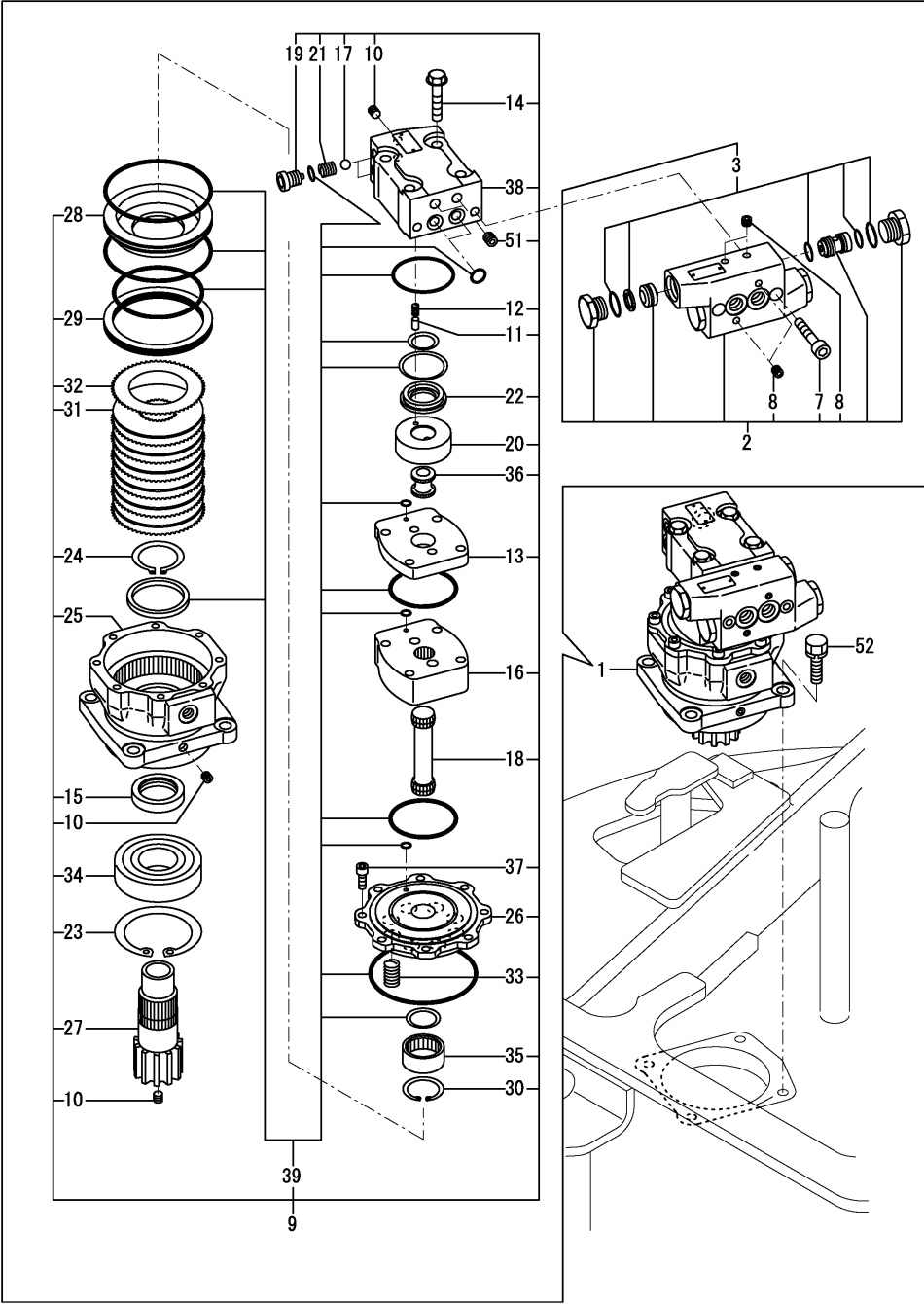
(D)=
(E)=
(F)=



Remarks
(1)IDENTIFICATION SEAL COLOR : WHITE
(2)IDENTIFICATION SEAL COLOR : RED
(3)IDENTIFICATION SEAL COLOR:BLUE
(4)No.25 is PF : 1/4, No.25-1 is PF : 3/8
No.25-1 & 41-1 interchangeable by set.
(5)IDENTIFICATION SEAL COLOR:BLUE
No.3-1, 17-1 & 52-3 interchangeable by set.

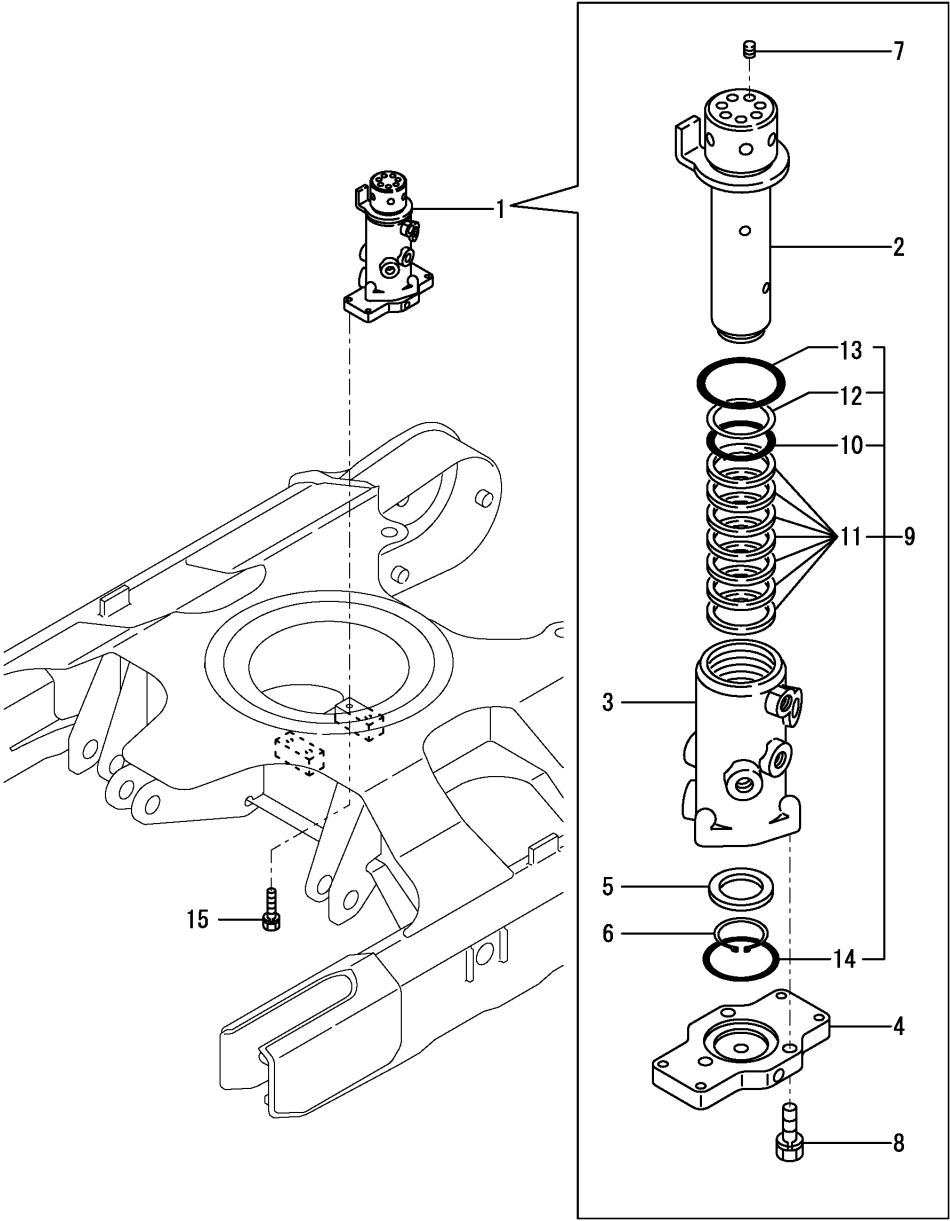
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
(A=M35238)											
34	3	172456-73390	SNAP RING	2							
35	3	172456-73400	HOLDER	2							
36	3	172456-73410	GEAR, DRIVE	2							
37	3	172456-73420	THRUST PLATE	2							
38	3	172122-73430	PLUG	4							
39	3	172456-73430	THRUST PLATE	2							
40	3	172456-73440	THRUST PLATE	2							
41	3	172456-73450	COVER	2							
41-1	3	172B16-73380	COVER	2						S	4
(A=M46230)											
42	3	172183-73510	SEAL, FLOATING	2							
43	3	172183-73520	BEARING	2							
44	3	172183-73560	WASHER, THRUST	8							
45	3	172183-73570	PLATE, THRUST	2							
46	3	172183-73660	WIRE	2							
49	2	172421-73400	SPRING	2							
50	2	172456-73460	PLATE	2							
50-1	2	172456-73461	PLATE	2							N
(A=M35328)											
51	2	172122-73470	PIN	2							
52	2	172456-73330	BASE PLATE ASSY	2							
52-1	2	172456-73331	BASE PLATE KIT	2						N	1
(A=M31553)											
52-2	2	172A23-73550	PLATE KIT, BASE	2						S	2
(A=M33831)											
52-3	2	172A23-73551	PLATE KIT, BASE	2						S	5
(A=M46230)											
63	2	172456-73500	SPRING	4							
64	2	172450-73510	BALL, STEEL	4							
65	2	172456-73510	CAP	4							
66	2	172456-73520	ORIFICE	4							
67	2	172456-73540	VALVE ASSY	2							
75	2	172450-73550	PISTON ASSY	4							1
75-1	2	172450-73551	PISTON ASSY	4						S	2
(A=M33831)											
76	2	172456-73570	BOLT, SOCKET HEAD	6							
77	2	172183-73670	SHAFT	2							
78	2	172183-73780	PLUG	2						Z	1
(A=M33831)											
78-1	2	172A23-73540	PLUG	2						W	2
(A=M33831)											
79	2	172122-73480	PIN	4							
80	2	172312-74790	ORIFICE	8							
81	2	24101-060024	BEARING, BALL 6002	2							
82	2	24101-060044	BEARING, BALL 6004	2							
87	2	26450-080202	BOLT, M8X 20	12							
88	1	26013-100252	BOLT, SPRING M10X 25	16							
89	1	172456-73320	SEAL SET	2							2
89-1	1	172B16-73350	SEAL KIT, MOTOR	2						S	3
(A=M46230)											

Fig.48. TURNING MOTOR



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

Fig.49. SWIVEL JOINT(Y SPEC.)(TO M39318)



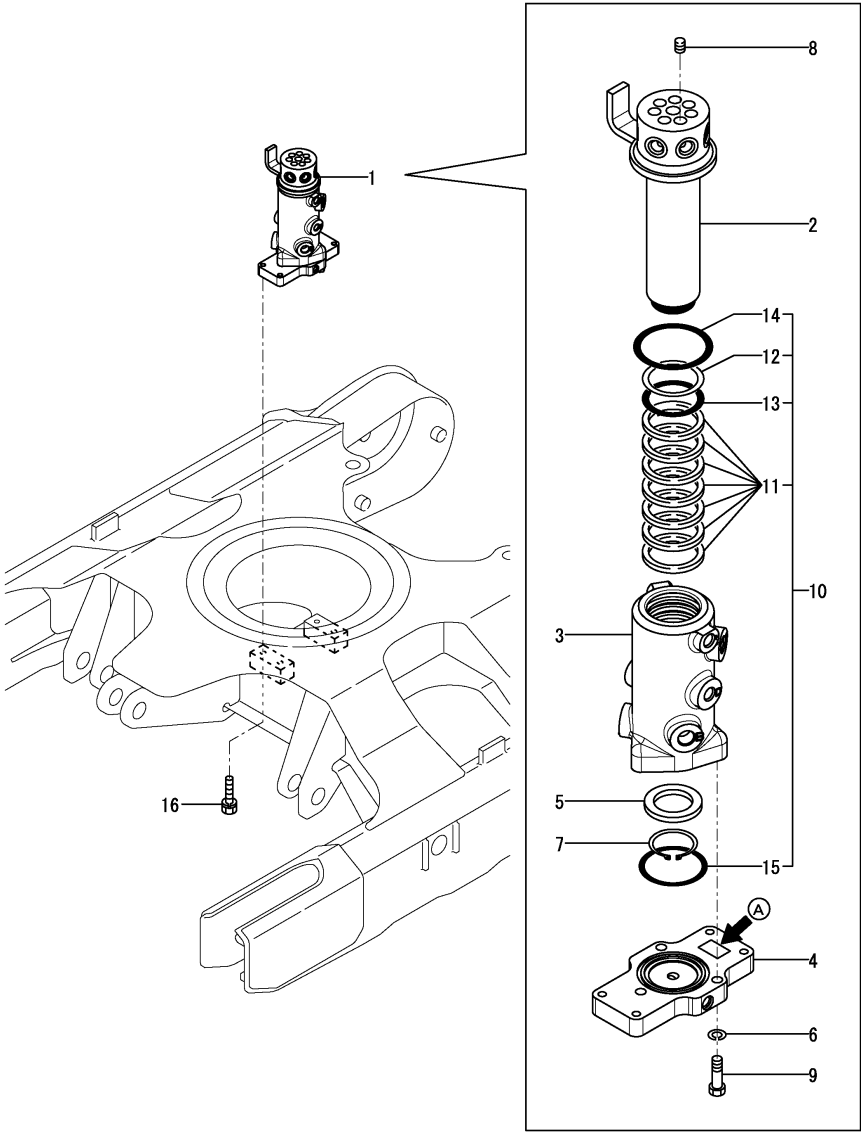
(A)=VIO20-3(KR)
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172444-73802	JOINT ASSY, SWIVEL	1							
1-1	1	172444-73803	JOINT ASSY, SWIVEL	1							R
(A=M32916)											
1-2	1	172444-73803	JOINT ASSY, SWIVEL	1							Z 1
(A=M39319)											
2	2	172444-73810	SHAFT ASSY, SWIVEL	1							
3	2	172444-73831	HUB, SWIVEL	1							
4	2	172444-73840	FLANGE, SWIVEL	1							
5	2	172137-73860	SPACER, SWIVEL	1							
6	2	22242-000451	RING, 45	1							
7	2	23871-020000	PLUG, R02	7							
8	2	26013-100352	BOLT, M10X 35	3							
9	2	172444-73880	SEAL SET, SWIVEL	1							
10	3	172142-73800	O-RING	1							
11	3	172458-73820	SEAL, SWIVEL	7							
11-1	2	172447-73840	SEAL	7							R
(A=M32916)											
12	3	172148-73870	RING, BUCK UP	1							
13	3	24311-000750	O-RING, 1AP75.0	1							
14	3	24321-000700	O-RING, 1AG70.0	1							
15	1	26013-100402	BOLT, M10X 40	4							

Remarks
(1)Compatibility by assembly exchange
with parts of Fig.79(49A) Ref.No.1.

Fig.79. (49A)SWIVEL JOINT(N SPEC.)(FROM M39319)

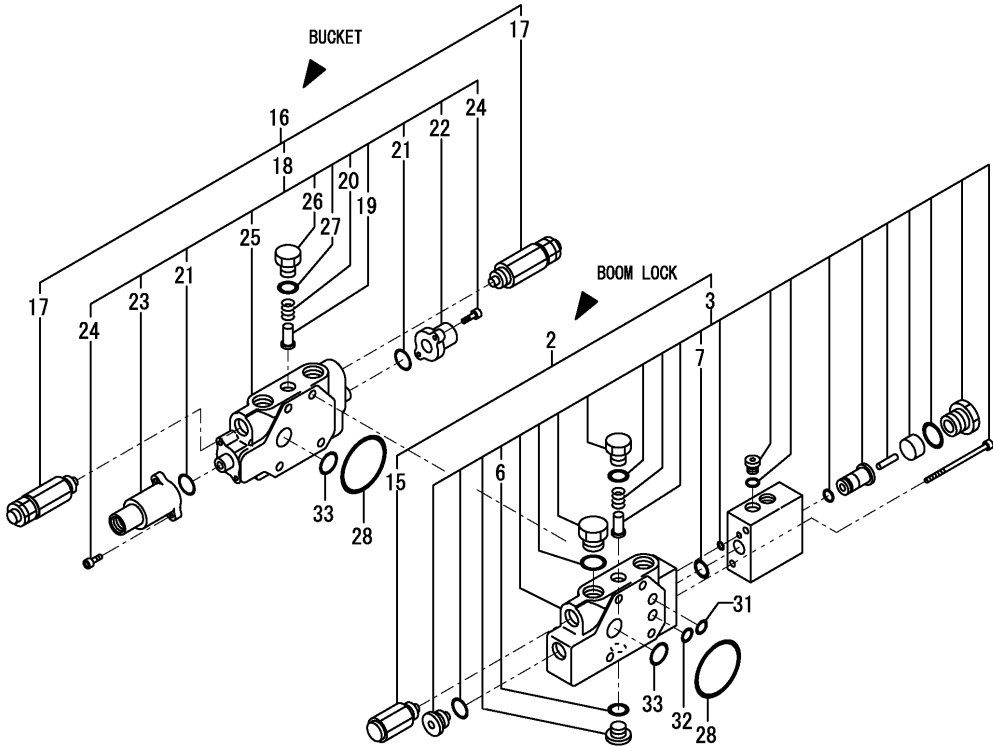


Remarks
(1)A:"NACHI"LABEL

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

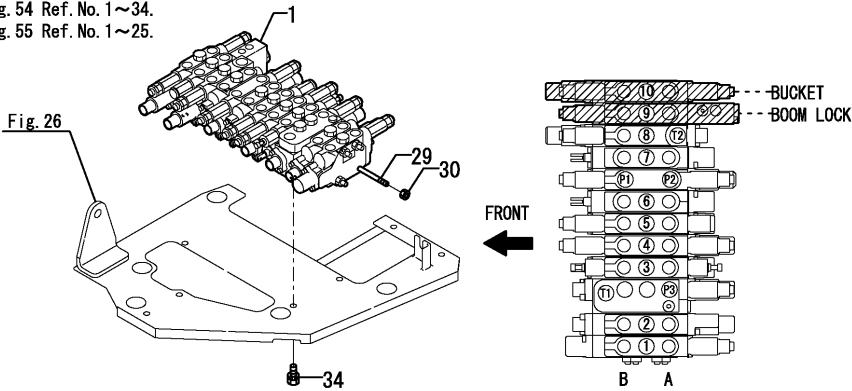
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172B02-73800	JOINT ASSY, SWIVEL	1						W	1
(A=M39319)											
2	2	172B02-73810	SHAFT ASSY, SWIVEL	1							
3	2	172B02-73840	HUB, SWIVEL	1							
4	2	172B02-73850	FLANGE, SWIVEL	1							
5	2	172B02-73860	SPACER, SWIVEL	1							
6	2	22217-100000	WASHER, SPRING 10	3							
7	2	22242-000451	RING, 45	1							
8	2	23871-020000	PLUG, R02	7							
9	2	26076-100352	BOLT, 10.910X 35	3							
10	2	172B02-73900	SEAL KIT, SWIVEL	1							
10-1	2	172B02-73910	SEAL KIT, SWIVEL	1						N	
(A=M46061)											
11	3	172B02-73870	SEAL, SWIVEL	7							
11-1	3	172B02-73890	SEAL, SWIVEL	7						N	
(A=M46061)											
12	3	172B02-73880	RING, BACKUP T3 55	1							
13	3	24315-000560	O-RING, 1BP56.0	1							
14	3	24315-000750	O-RING, 1BP75.0	1							
15	3	24325-000700	O-RING, 1BG70.0	1							
16	1	26013-100402	BOLT, M10X 40	4							



CONTROL VALVE ASSY
172456-74101

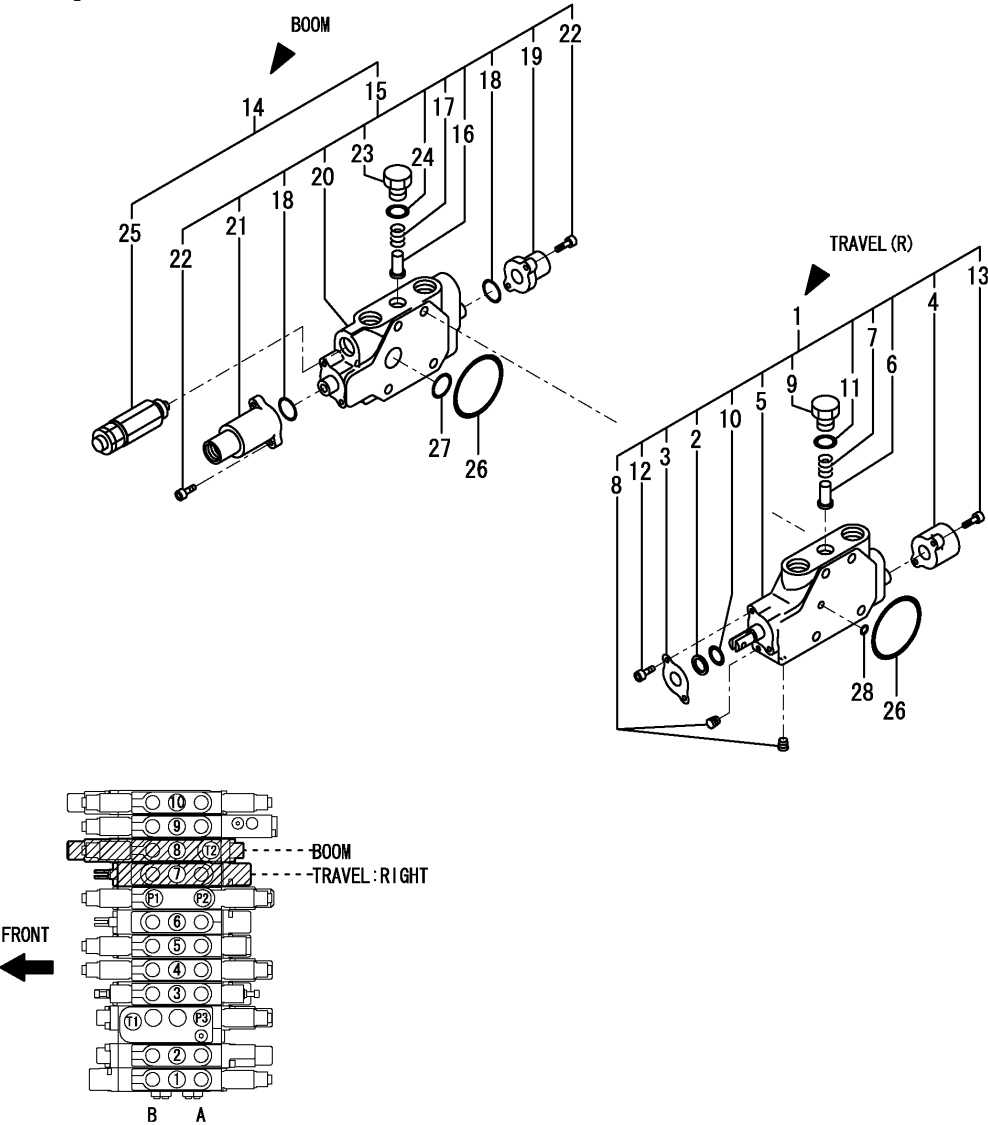
Fig. 50 Ref. No. 1
INC. Fig. 50 Ref. No. 2~33.
Fig. 51 Ref. No. 1~28.
Fig. 52 Ref. No. 1~25.
Fig. 53 Ref. No. 1~30.
Fig. 54 Ref. No. 1~34.
Fig. 55 Ref. No. 1~25.



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-74101	VALVE ASSY, CONTROL	1							
1-1	1	172456-74102	VALVE ASSY, CONTROL	1							N
(A=M30865)											
2	2	172456-74430	SECTION, BOOM LOCK	1							
3	3	172456-74260	BOOM LOCK ASSY	1							
6	4	172456-74410	O-RING, 1B S 16.0	1							
7	4	172456-74420	O-RING, AS 1B17.0	1							
15	3	172456-74440	VALVE, RELIEF	1							
16	2	172456-74390	SECTION, BUCKET	1							
17	3	172456-74280	VALVE ASSY, RELIEF 2	2							
18	3	172458-74610	SECTION ASSY, BUCKET	1							
19	4	172458-74150	VALVE, REVERSE	1							
20	4	172458-74160	SPRING, VALVE	1							
21	4	172458-74230	O-RING	2							
22	4	172458-74240	COVER, PILOT	1							
23	4	172458-74250	COVER, PILOT	1							
24	4	172458-74260	SWP HEX.BOLT 5X20	4							
25	4	172458-74620	SPOOL ASSY, BUCKET	1							
26	4	172458-74630	STAY, VALVE	1							
27	4	24315-000110	O-RING, 1BP11.0	1							
28	2	172458-74720	O-RING	2							
29	2	172458-74730	BOLT L380	4							
30	2	26716-080002	NUT, M8	4							
31	2	24315-000090	O-RING, 1BP9.0	1							
32	2	24315-000100	O-RING, 1BP10.0	1							
33	2	24311-000180	O-RING, 1AP18.0	2							
34	1	26013-100162	BOLT, M10X 16	3							

Fig.51. CONTROL VALVE(2/6)

CONTROL VALVE ASSY
172456-74101
Fig. 50 Ref. No. 1
INC. Fig. 50 Ref. No. 2~33.
Fig. 51 Ref. No. 1~28.
Fig. 52 Ref. No. 1~25.
Fig. 53 Ref. No. 1~30.
Fig. 54 Ref. No. 1~34.
Fig. 55 Ref. No. 1~25.



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172456-74190	SECTION ASSY, TRAVEL	1							
2	3	172458-74130	DUST WIPER	1							
3	3	172458-74140	RETAINER, SEAL	1							
4	3	172458-74170	CAP, SPRING	1							
5	3	172456-74230	SPOOL ASSY, TRAVEL	1							
6	3	172458-74290	VALVE, REVERSE	1							
7	3	172458-74360	SPRING, VALVE	1							
8	3	172458-74460	PLUG GPM1/32	2							
9	3	172458-74640	STAY, VALVE	1							
10	3	24311-000120	O-RING, 1AP12.0	1							
11	3	24315-000110	O-RING, 1BP11.0	1							
12	3	26450-050102	BOLT, M5X 10	2							
13	3	26450-050182	BOLT, M5X 18	2							
14	2	172456-74370	SECTION, BOOM	1							
15	3	172456-74240	SECTION ASSY, BOOM	1							
16	4	172458-74150	VALVE, REVERSE	1							
17	4	172458-74160	SPRING, VALVE	1							
18	4	172458-74230	O-RING	2							
19	4	172458-74240	COVER, PILOT	1							
20	4	172456-74250	SPOOL ASSY, BOOM	1							
21	4	172458-74250	COVER, PILOT	1							
22	4	172458-74260	SWP HEX.BOLT 5X20	4							
23	4	172458-74630	STAY, VALVE	1							
24	4	24315-000110	O-RING, 1BP11.0	1							
25	3	172456-74280	VALVE ASSY, RELIEF 2	1							
26	2	172458-74720	O-RING	2							
27	2	24311-000180	O-RING, 1AP18.0	1							
28	2	24311-000060	O-RING, 1AP6.0	2							

Fig.52. CONTROL VALVE(3/6)

172456-74101

Fig. 50 Ref. No. 1

INC. Fig. 50 Ref. No. 2~33.

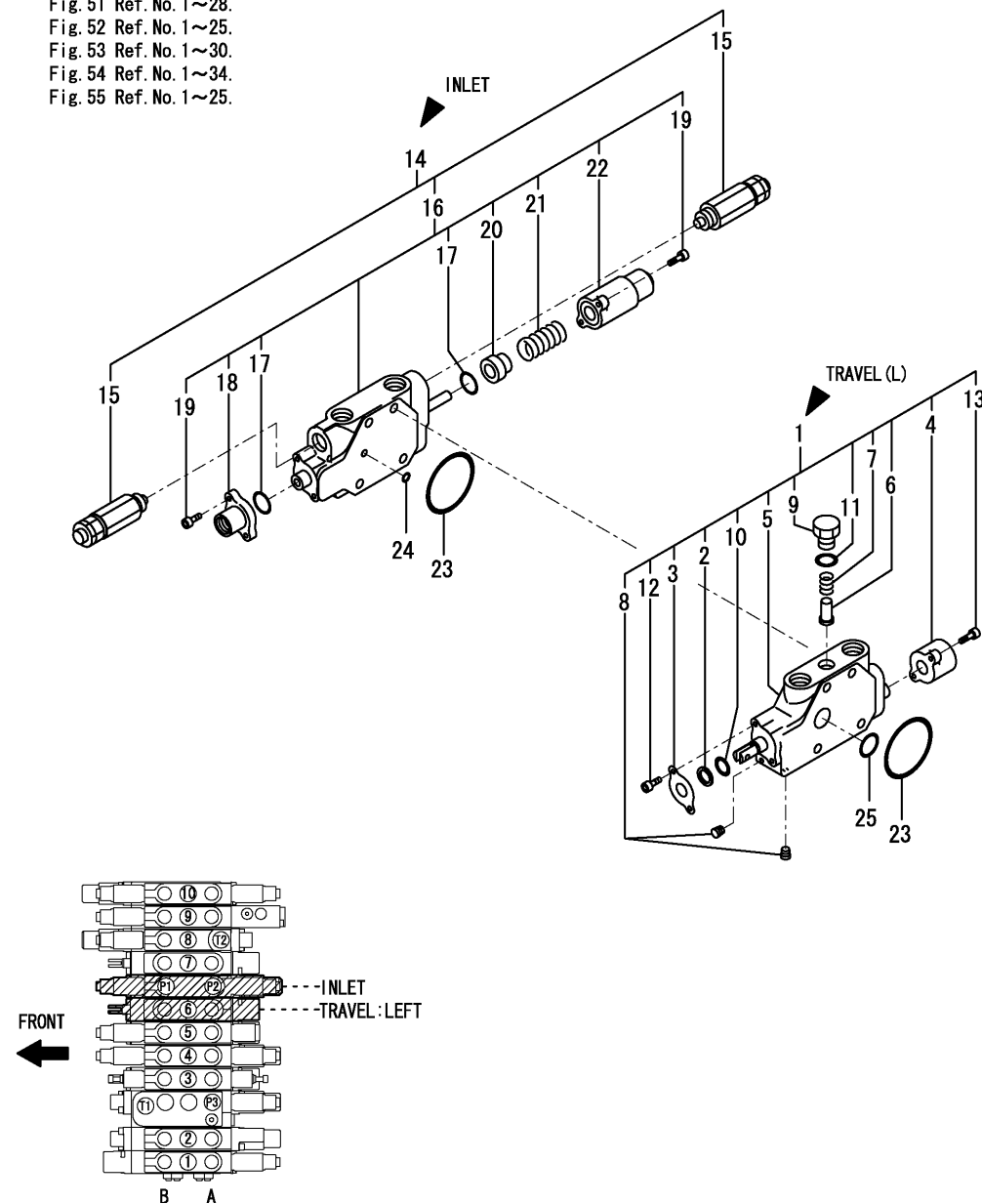
Fig. 51 Ref. No. 1~28.

Fig. 52 Ref. No. 1~25.

Fig. 53 Ref. No. 1~30.

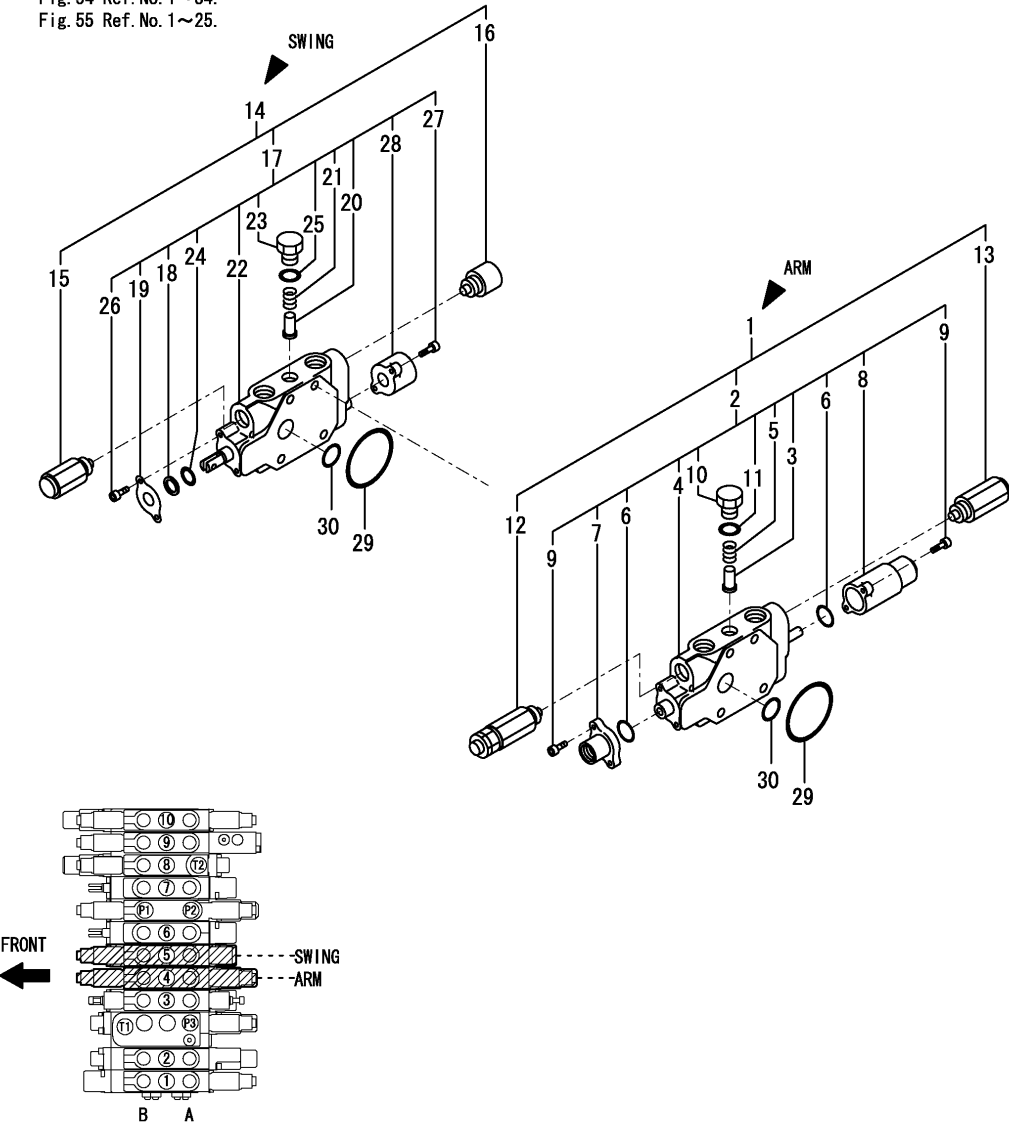
Fig. 54 Ref. No. 1~34.

Fig. 55 Ref. No. 1~25.



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172456-74170	SECTION ASSY, TRAVEL	1							
2	3	172458-74130	DUST WIPER	1							
3	3	172458-74140	RETAINER, SEAL	1							
4	3	172458-74170	CAP, SPRING	1							
5	3	172456-74180	SPOOL ASSY, TRAVEL	1							
6	3	172458-74290	VALVE, REVERSE	1							
7	3	172458-74360	SPRING, VALVE	1							
8	3	172458-74460	PLUG GPM1/32	2							
9	3	172458-74640	STAY, VALVE	1							
10	3	24311-000120	O-RING, 1AP12.0	1							
11	3	24315-000110	O-RING, 1BP11.0	1							
12	3	26450-050102	BOLT, M5X 10	2							
13	3	26450-050182	BOLT, M5X 18	2							
14	2	172456-74350	VALVE, CNTRL INLET	1							
15	3	172456-74400	VALVE, RELIEF 210/20	2							
16	3	172458-74520	SECTION ASSY	1							
17	4	172458-74230	O-RING	2							
18	4	172458-74240	COVER, PILOT	1							
19	4	172458-74260	SWP HEX.BOLT 5X20	4							
20	4	172458-74530	SEAT, SPRING	1							
21	4	172458-74540	SPRING, RETURN	1							
22	4	172458-74550	COVER, PILOT	1							
23	2	172458-74720	O-RING	2							
24	2	24311-000060	O-RING, 1AP6.0	2							
25	2	24311-000180	O-RING, 1AP18.0	1							

CONTROL VALVE ASSY
172456-74101
Fig. 50 Ref. No. 1
INC. Fig. 50 Ref. No. 2~33.
Fig. 51 Ref. No. 1~28.
Fig. 52 Ref. No. 1~25.
Fig. 53 Ref. No. 1~30.
Fig. 54 Ref. No. 1~34.
Fig. 55 Ref. No. 1~25.



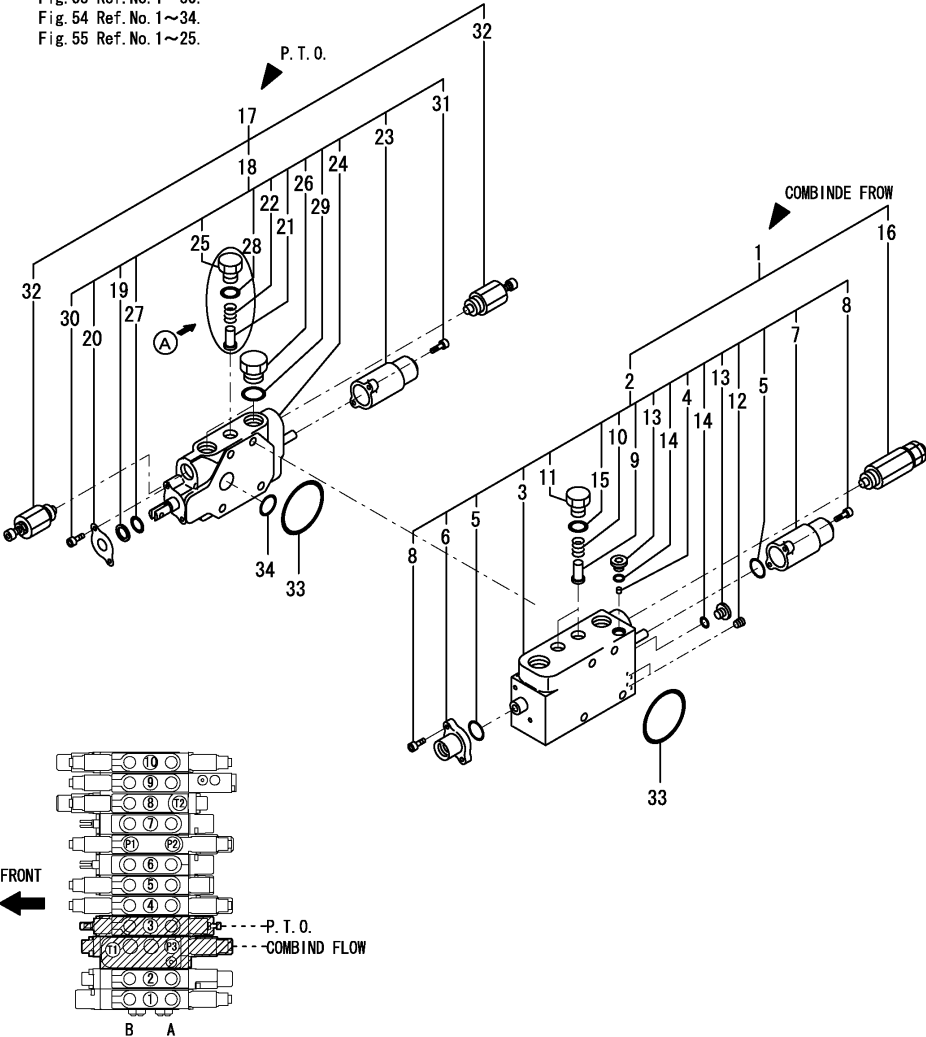
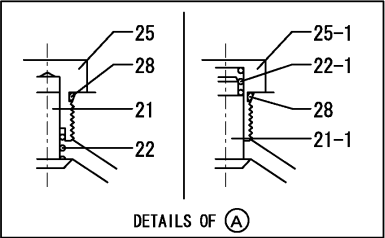
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172456-74320	SECTION, ARM	1							
2	3	172456-74150	SECTION ASSY, ARM	1							
3	4	172458-74150	VALVE, REVERSE	1							
4	4	172456-74160	SPOOL ASSY, ARM	1							
5	4	172458-74160	SPRING, VALVE	1							
6	4	172458-74230	O-RING	2							
7	4	172458-74240	COVER, PILOT	1							
8	4	172458-74250	COVER, PILOT	1							
9	4	172458-74260	SWP HEX.BOLT 5X20	4							
10	4	172458-74630	STAY, VALVE	1							
11	4	24315-000110	O-RING, 1BP11.0	1							
12	3	172447-74221	PORT RELIFE VALVE	1							
13	3	172447-74230	ANTI-CAVITATION	1							
14	2	172456-74330	SECTION, SWING	1							
15	3	172447-74230	ANTI-CAVITATION	1							
16	3	172456-74290	RELIEF VALVE PLUG	1							
17	3	172458-74420	SECTION ASSY, SWING	1							
18	4	172458-74130	DUST WIPER	1							
19	4	172458-74140	RETAINER, SEAL	1							
20	4	172458-74150	VALVE, REVERSE	1							
21	4	172458-74160	SPRING, VALVE	1							
22	4	172458-74430	SPOOL ASSY, SWING	1							
23	4	172458-74630	STAY, VALVE	1							
24	4	24311-000120	O-RING, 1AP12.0	1							
25	4	24315-000110	O-RING, 1BP11.0	1							
26	4	26450-050102	BOLT, M5X 10	2							
27	4	26450-050182	BOLT, M5X 18	2							
28	4	172458-74170	CAP, SPRING	1							
29	2	172458-74720	O-RING	2							
30	2	24311-000180	O-RING, 1AP18.0	2							

Fig.54. CONTROL VALVE(5/6)

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

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

CONTROL VALVE ASSY
172456-74101
Fig. 50 Ref. No. 1
INC. Fig. 50 Ref. No. 2~33.
Fig. 51 Ref. No. 1~28.
Fig. 52 Ref. No. 1~25.
Fig. 53 Ref. No. 1~30.
Fig. 54 Ref. No. 1~34.
Fig. 55 Ref. No. 1~25.



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172456-74310	SECTION, CONFLUENE	1							
2	3	172456-74130	SECTION ASSY	1							
3	4	172456-74140	SPOOL ASSY	1							
4	4	172457-74190	LIMITTER, M6 0.9	1							
5	4	172458-74230	O-RING	2							
6	4	172458-74240	COVER, PILOT	1							
7	4	172458-74250	COVER, PILOT	1							
8	4	172458-74260	SWP HEX.BOLT 5X20	4							
9	4	172458-74290	VALVE, REVERSE	2							
10	4	172458-74360	SPRING, VALVE	2							
11	4	172458-74640	STAY, VALVE	2							
12	4	172458-74660	PLUG NPT1/16,SCREW	2							
13	4	172458-74670	PLUG,PF1/8	2							
14	4	24315-000080	O-RING, 1BP8.0	2							
15	4	24315-000110	O-RING, 1BP11.0	2							
16	3	172456-74270	VALVE, RELIEF 170/20	1							
17	2	172458-74780	SECTION, PTO	1							
17-1	2	172456-74460	SECTION, PTO	1							N
(A=M30865)											
18	3	172458-74380	SECTION ASSY, PTO	1							
18-1	3	172456-74450	SECTION ASSY, PTO	1							N
(A=M30865)											
19	4	172458-74130	DUST WIPER	1							
20	4	172458-74140	RETAINER, SEAL	1							
21	4	172458-74150	VALVE, REVERSE	1							
21-1	4	172490-74310	VALVE, REVERSE	1							S
(A=M30865)											
22	4	172458-74160	SPRING, VALVE	1							
22-1	4	172490-74320	SPRING, VALVE	1							S
(A=M30865)											
23	4	172458-74170	CAP, SPRING	1							
24	4	172458-74390	SPOOL ASSY, PTO	1							
25	4	172458-74630	STAY, VALVE	1							
25-1	4	172490-74330	STAY, VALVE	1							S
(A=M30865)											
26	4	172458-74650	STAY, VALVE	2							
27	4	24311-000120	O-RING, 1AP12.0	1							
28	4	24315-000110	O-RING, 1BP11.0	1							
28-1	4	41851-000110	O-RING	1							N
(A=M35460)											
29	4	24315-000140	O-RING, 1BP14.0	2							
29-1	4	41851-000140	O RING P 14.0 HNBR	2							N
(A=M35460)											
30	4	26450-050102	BOLT, M5X 10	2							
31	4	26450-050182	BOLT, M5X 18	2							
32	3	172458-74740	SHUT OFF VALVE	2							
33	2	172458-74720	O-RING	2							
34	2	24311-000180	O-RING, 1AP18.0	1							

Fig.55. CONTROL VALVE(6/6)

172456-74101

Fig. 50 Ref. No. 1

INC. Fig. 50 Ref. No. 2~33.

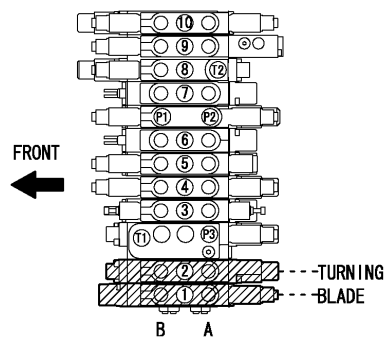
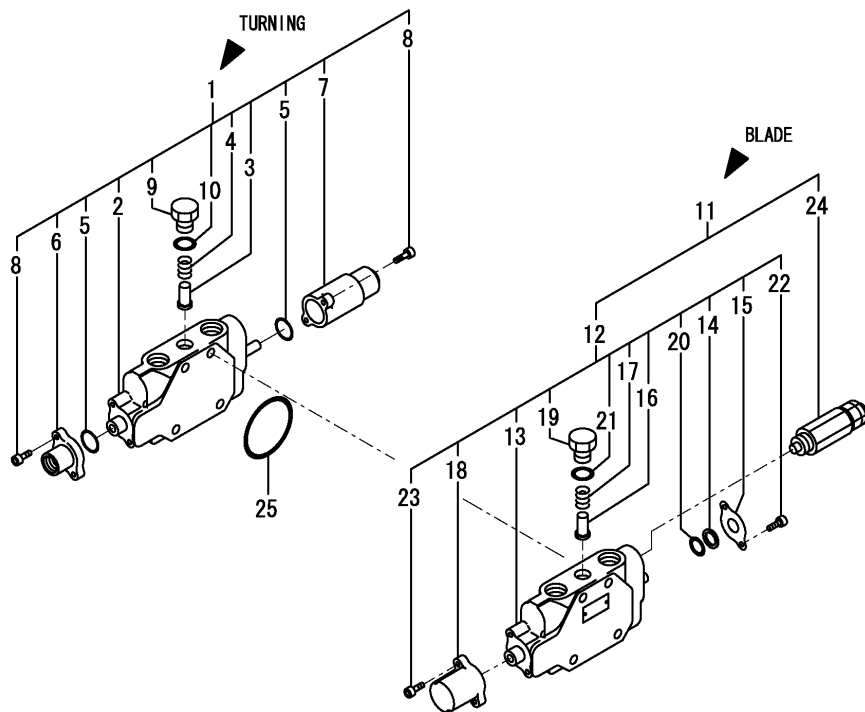
Fig. 51 Ref. No. 1~28.

Fig. 52 Ref. No. 1~25.

Fig. 53 Ref. No. 1~30.

Fig. 54 Ref. No. 1~34.

Fig. 55 Ref. No. 1~25.



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	172456-74110	SECTION ASSY	1							
2	3	172456-74120	SPOOL ASSY, SWING	1							
3	3	172458-74150	VALVE, REVERSE	1							
4	3	172458-74160	SPRING, VALVE	1							
5	3	172458-74230	O-RING	2							
6	3	172458-74240	COVER, PILOT	1							
7	3	172458-74250	COVER, PILOT	1							
8	3	172458-74260	SWP HEX.BOLT 5X20	4							
9	3	172458-74630	STAY, VALVE	1							
10	3	24315-000110	O-RING, 1BP11.0	1							
11	2	172458-74750	SECTION, BLADE	1							
12	3	172458-74110	SECTION ASSY, BLADE	1							
13	4	172458-74120	SPOOL ASSY, BLADE	1							
14	4	172458-74130	DUST WIPER	1							
15	4	172458-74140	RETAINER, SEAL	1							
16	4	172458-74150	VALVE, REVERSE	1							
17	4	172458-74160	SPRING, VALVE	1							
18	4	172458-74170	CAP, SPRING	1							
19	4	172458-74630	STAY, VALVE	1							
20	4	24311-000120	O-RING, 1AP12.0	1							
21	4	24315-000110	O-RING, 1BP11.0	1							
22	4	26450-050102	BOLT, M5X 10	2							
23	4	26450-050182	BOLT, M5X 18	2							
24	3	172458-74700	VALVE, RELIEF	1							
25	2	172458-74720	O-RING	1							

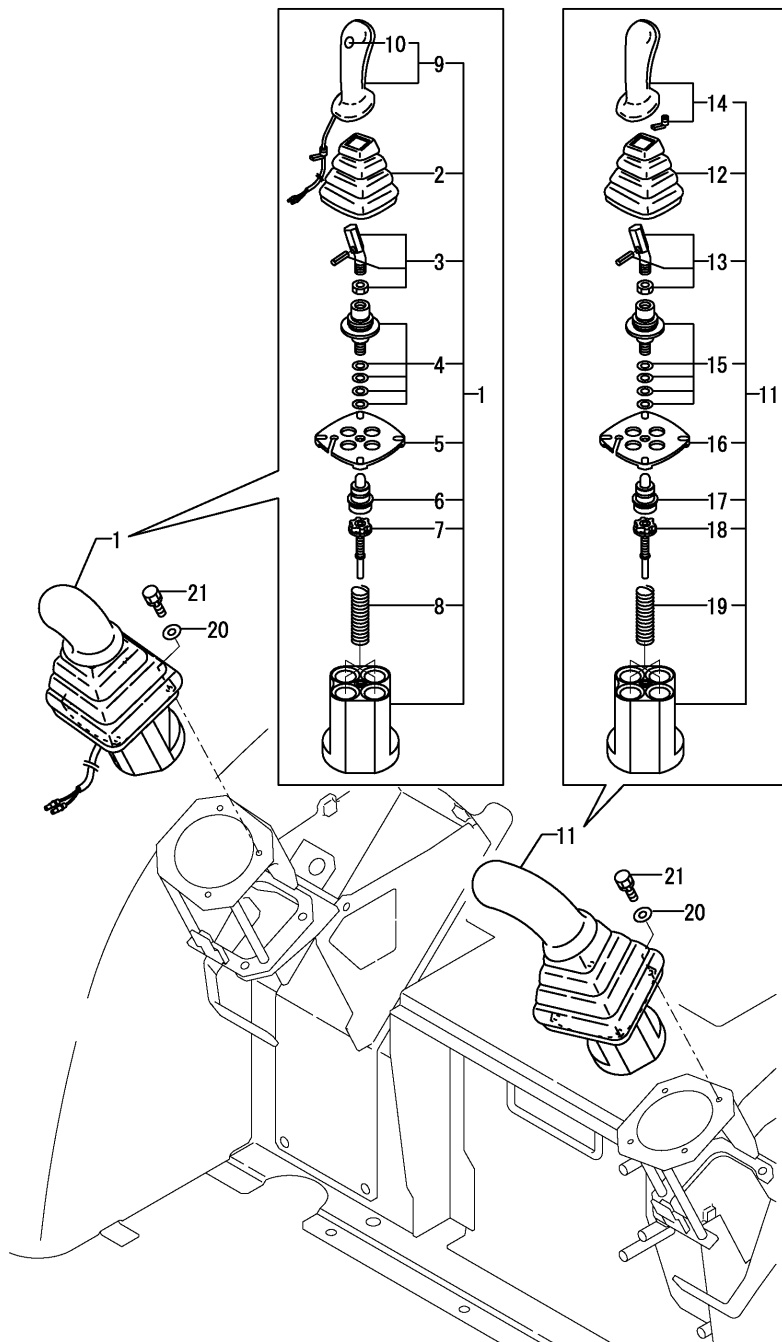
[illegible]

Fig.57. OIL COOLER

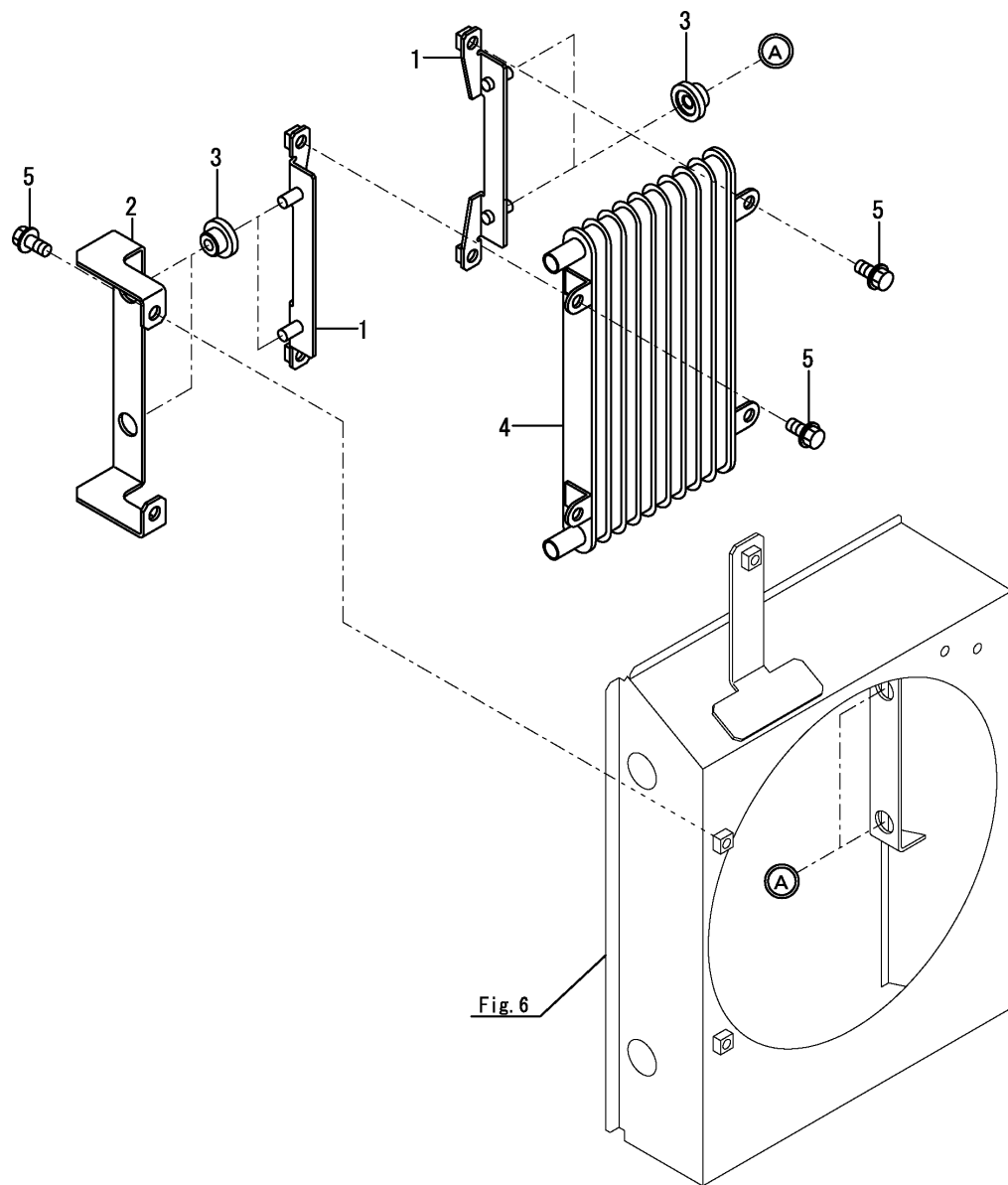


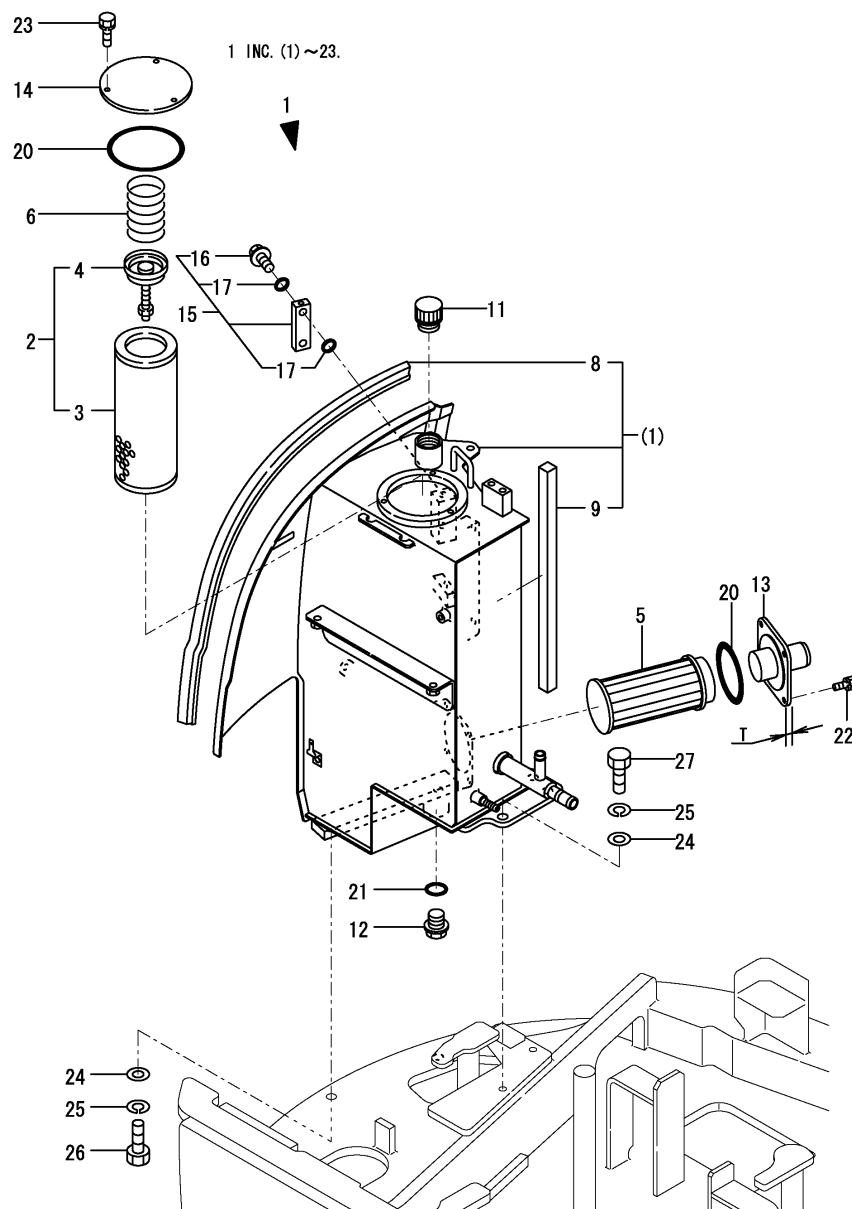
Fig. 6

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

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172490-13160	BRACKET ASSY	2							
2	1	172A23-13210	BRACKET,O/C	1							
3	1	172446-13330	ABSORBER, SHOCK	4							
4	1	198448-48810	COOLER ASSY, OIL	1							
5	1	26106-100202	BOLT, M10X 20 PLATED	6							
5-1	1	26106-100162	BOLT, M10X 16 PLATED	6							N

(A=M45876)

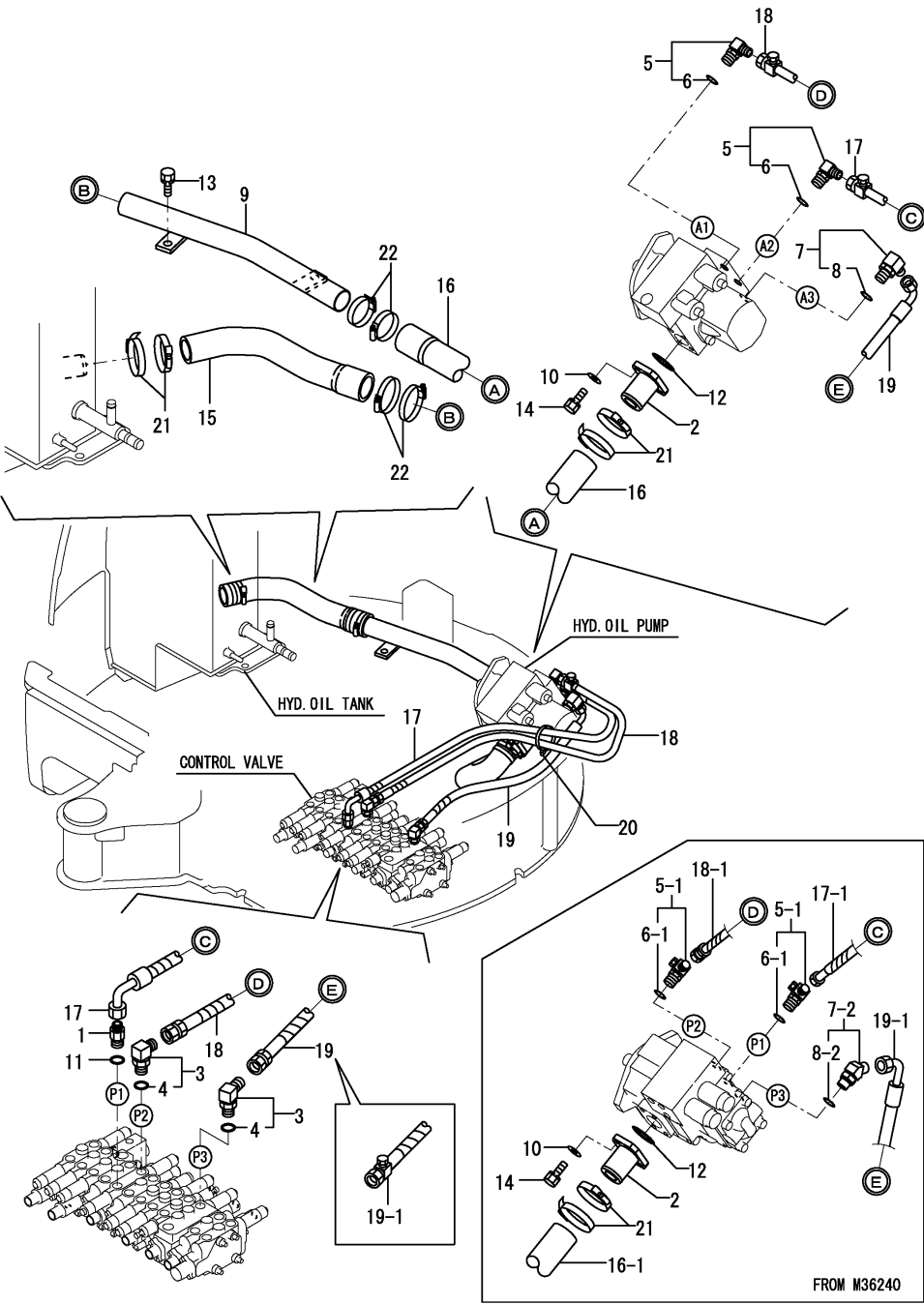


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	772A23-75100-1	TANK ASSY, RESERVOIR	1							
1-1	1	772A23-75100-3	TANK ASSY, RESERVOIR	1							S
(A=M34345)											
1-2	1	772A23-75100-Y	TANK ASSY, RESERVOIR	1							S
(A=M45501)											
2	2	172175-73700	FILTER ASSY, RETURN	1							
3	3	172175-73710	ELEMENT, FILTER	1							
4	3	172141-73770	VALVE ASSY, BYPASS	1							
5	2	172146-73730	FILTER, SUCTION	1							
6	2	933152-02710	SPRING, CLUTCH	1							
8	3	172168-65750	RUBBER, SEAL	1							
9	3	172458-75070	SEAL	1							
11	2	172446-75250	CAP, RESERVER	1							
12	2	172455-75330	PLUG, DRAIN	1							
13	2	172183-75410	FLANGE, SUCTION	1							
13-1	2	172A46-75500	FLANGE, SUCTION	1							F 1
(A=M35946)											
14	2	172460-75410-1	COVER, TANK	1							
14-1	2	172460-75410-5	COVER, TANK	1							S
(A=M34345)											
14-2	2	172460-75410-Y	COVER, TANK	1							S
(A=M45501)											
15	2	172447-75600	GAUGE ASSY	1							
16	3	172455-75290	BOLT	2							
17	3	172455-75300	O-RING	4							
20	2	24321-001050	O-RING, 1AG105.0	2							
21	2	24341-000300	O-RING, 1AS30.0	1							
22	2	26013-080162	BOLT, M8X 16	4							
22-1	2	26014-080252	BOLT, M8X 25	4							S
(A=M35946)											
23	2	26013-080202	BOLT, M8X 20	3							
23-1	2	26014-080202	BOLT, M8X 20	3							N
(A=M35398)											
24	1	22137-140000	WASHER, 14	4							
25	1	22217-140000	WASHER, SPRING 14	4							
26	1	26116-140352	BOLT, M14X 35 PLATED	2							
27	1	26116-140352	BOLT, M14X 35 PLATED	2							
27-1	1	26116-140302	BOLT, M14X 30 PLATED	2							N
(A=MXXXXX)											

Remarks
(1)T=REF.NO.13 6MM, NO.13-1 12MM.
INTERCHANGEABLE BY SIMULTANEOUS
REPLACEMENT WITH REF.22-1.

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.59. HYD.OIL PIPING(TANK - PUMP - CONTROL VALVE)



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172730-75141	ADAPTER	1							
2	1	172422-76100	FLANGE	1							
3	1	172142-76181	JOINT ASSY	2							
4	2	24315-000140	O-RING, 1BP14.0	2							
5	1	172142-76181	JOINT ASSY	2							
5-1	1	172A23-76301	ELBOW ASSY	2							S
(A=M36240)											
6	2	24315-000140	O-RING, 1BP14.0	2							
6-1	2	41851-000180	O RING	2							S
(A=M36240)											
7	1	172A23-76300	ELBOW ASSY	1							
7-1	1	172A23-76301	ELBOW ASSY	1							N
(A=M35241)											
7-2	1	172644-76161	ELBOW, ADJUST	1							S
(A=M36240)											
8	2	24315-000180	O-RING, 1BP18.0	1							
8-1	2	41851-000180	O RING	1							N
(A=M35241)											
8-2	2	24315-000140	O-RING, 1BP14.0	1							S
(A=M36240)											
9	1	172487-76410	TUBE ASSY, SUCTION	1							
10	1	22117-100000	WASHER, 10	4							
11	1	24315-000140	O-RING, 1BP14.0	1							
11-1	1	41851-000140	O RING P 14.0 HNBR	1							N
(A=M35460)											
12	1	24321-000400	O-RING, 1AG40.0	1							
13	1	26013-100202	BOLT, M10X 20	2							
13-1	1	26014-100252	BOLT, M10X 25	2							N
(A=MZZZZZ)											
14	1	26013-100252	BOLT, M10X 25	4							
15	1	172A23-78080	HOSE	1							
16	1	172458-78091	HOSE	1							
16-1	1	172A23-78090	HOSE 42.5 55.2	1							S
(A=M36240)											
17	1	172A23-78110	HOSE	1							
17-1	1	172A23-78111	HOSE H206BC072S	1							S
(A=M36240)											
17-2	1	172A23-78112	HOSE H206BC077S	1							N
(A=M45001)											
18	1	172456-78120	HOSE	1							
18-1	1	172A23-78120	HOSE H206BB071S	1							S
(A=M36240)											
18-2	1	172A23-78121	HOSE H206BB074S	1							N
(A=M45001)											
19	1	172A23-78130	HOSE	1							
19-1	1	172A23-78131	HOSE H206CZ066S	1							S
(A=M36240)											
20	1	172122-79930	CLAMP, HOSE	1							
21	1	23001-060000	CLAMP, HOSE 60	4							
22	1	23001-070000	CLAMP, HOSE 70	4							
22-1	1	23001-060000	CLAMP, HOSE 60	4							N

Fig.59. HYD.OIL PIPING(TANK - PUMP - CONTROL VALVE)

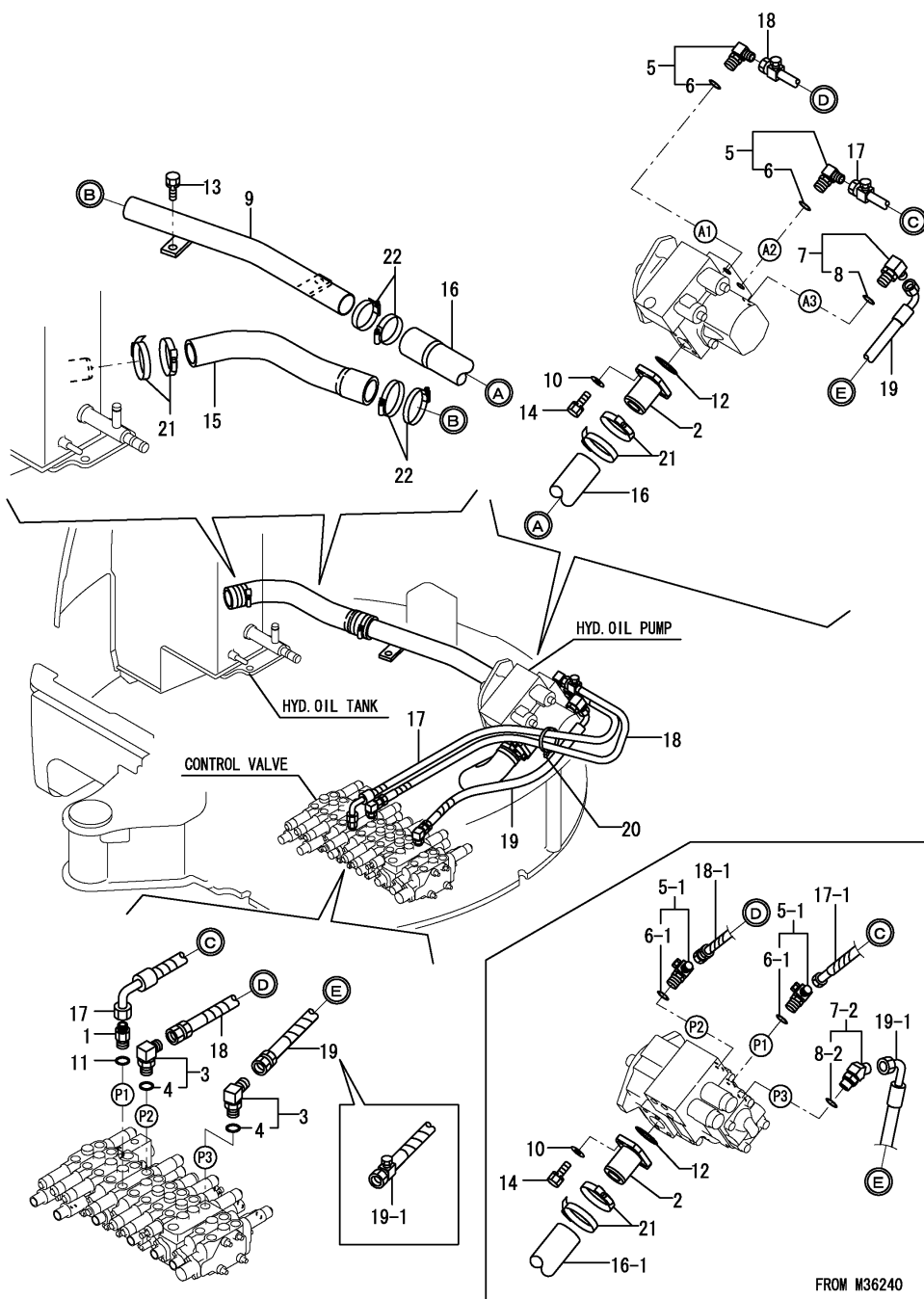
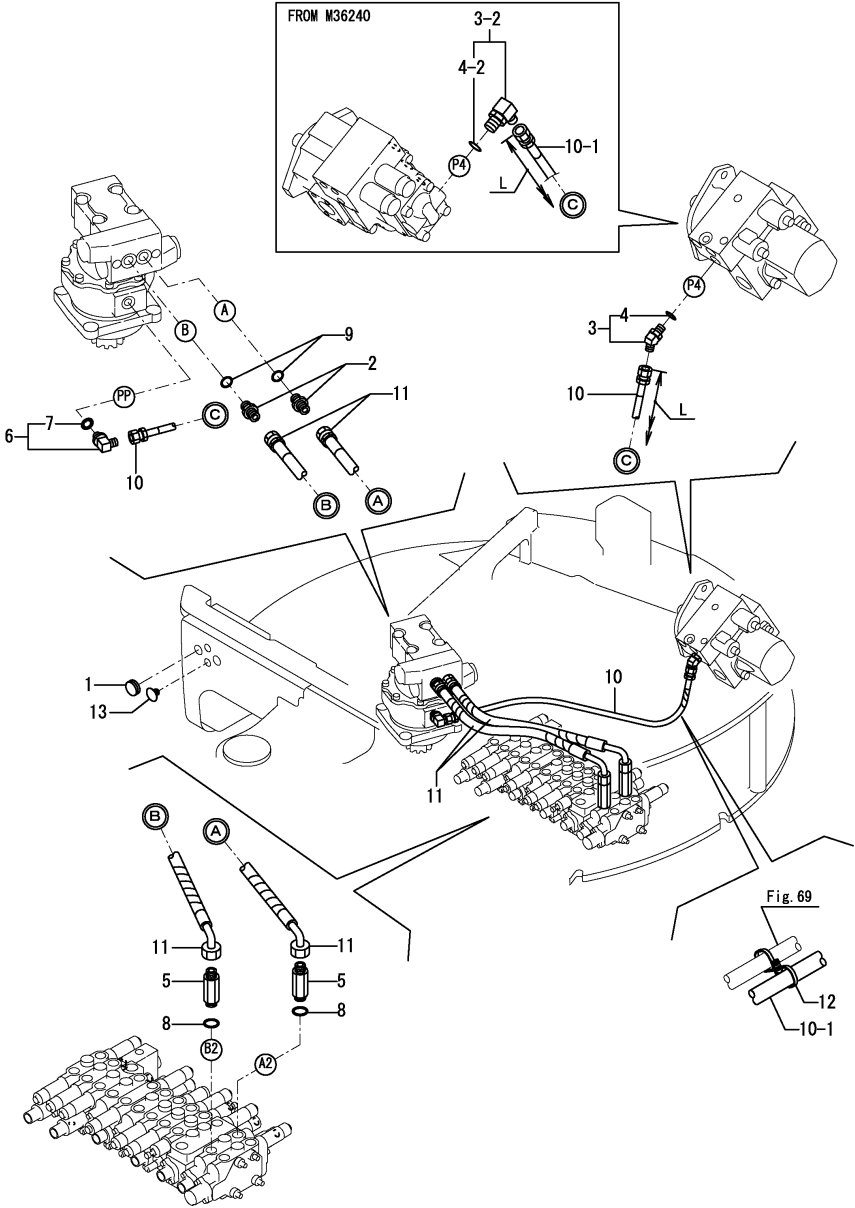
[illegible]

Fig.60. HYD.OIL PIPING(PUMP, CONTROL VALVE - TURNING MOTOR)



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

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

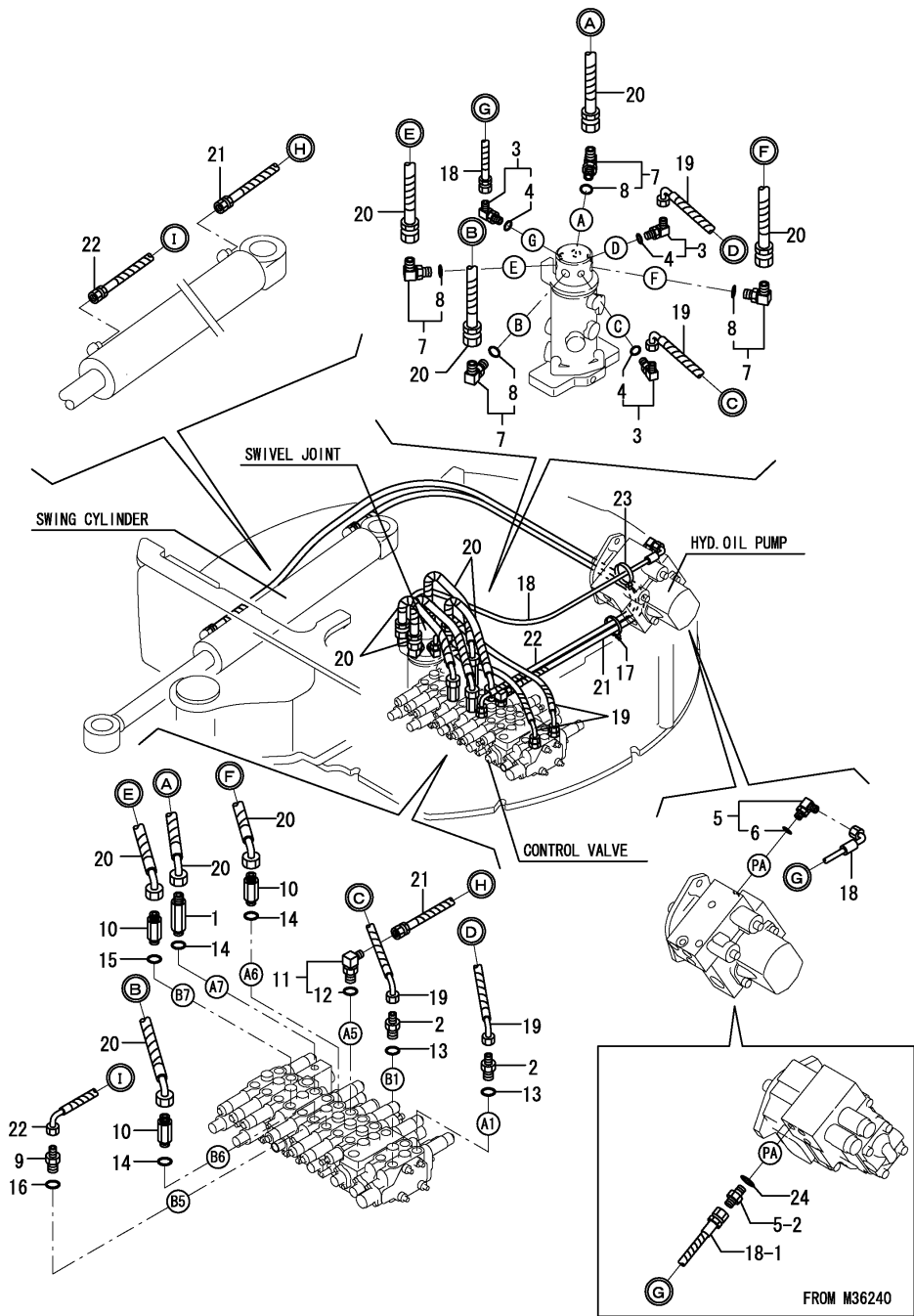
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172312-17260	GROMMET	2							
2	1	172730-75141	ADAPTER	2							
3	1	172173-76101	CONNECTOR ASSY	1							
3-1	1	172173-76102 (A=M35241)	CONNECTOR ASSY	1							N
3-2	1	172141-76920 (A=M36240)	CONNECTOR ASSY	1							S
4	2	24315-000110	O-RING, 1BP11.0	1							
4-1	2	41851-000110	O-RING	1							N
4-2	2	24315-000140 (A=M35241) (A=M36240)	O-RING, 1BP14.0	1							S
5	1	172162-76131	ADAPTER	2							
6	1	172141-76180	CONNECTOR ASSY	1							
6-1	1	172141-76181	CONNECTOR ASSY, 02FF	1							N
7	2	24315-000110 (A=M35241)	O-RING, 1BP11.0	1							
7-1	2	41851-000110	O-RING	1							N
8	1	24315-000140 (A=M35241)	O-RING, 1BP14.0	2							
8-1	1	41851-000140	O-RING	2							N
9	1	24315-000140 (A=M35460)	O-RING, 1BP14.0	2							
9-1	1	41851-000140	O-RING	2							N
10	1	172456-78140 (A=M35460)	HOSE	1							
10-1	1	172423-78940	HOSE	1							S 1
11	1	172422-78210 (A=M36240)	HOSE	2							
12	1	172137-16560	BAND	1							W
13	1	172176-68210 (A=M3A673) (A=*2014.12)	CLIP, TREE	2							W

Remarks
(1)REF.NO.10 L=700MM,
NO.10-1 L=1000MM.

Fig.61. HYD.OIL PIPING(CONTROL VALVE - SWIVEL JOINT, SWING CYLINDER)

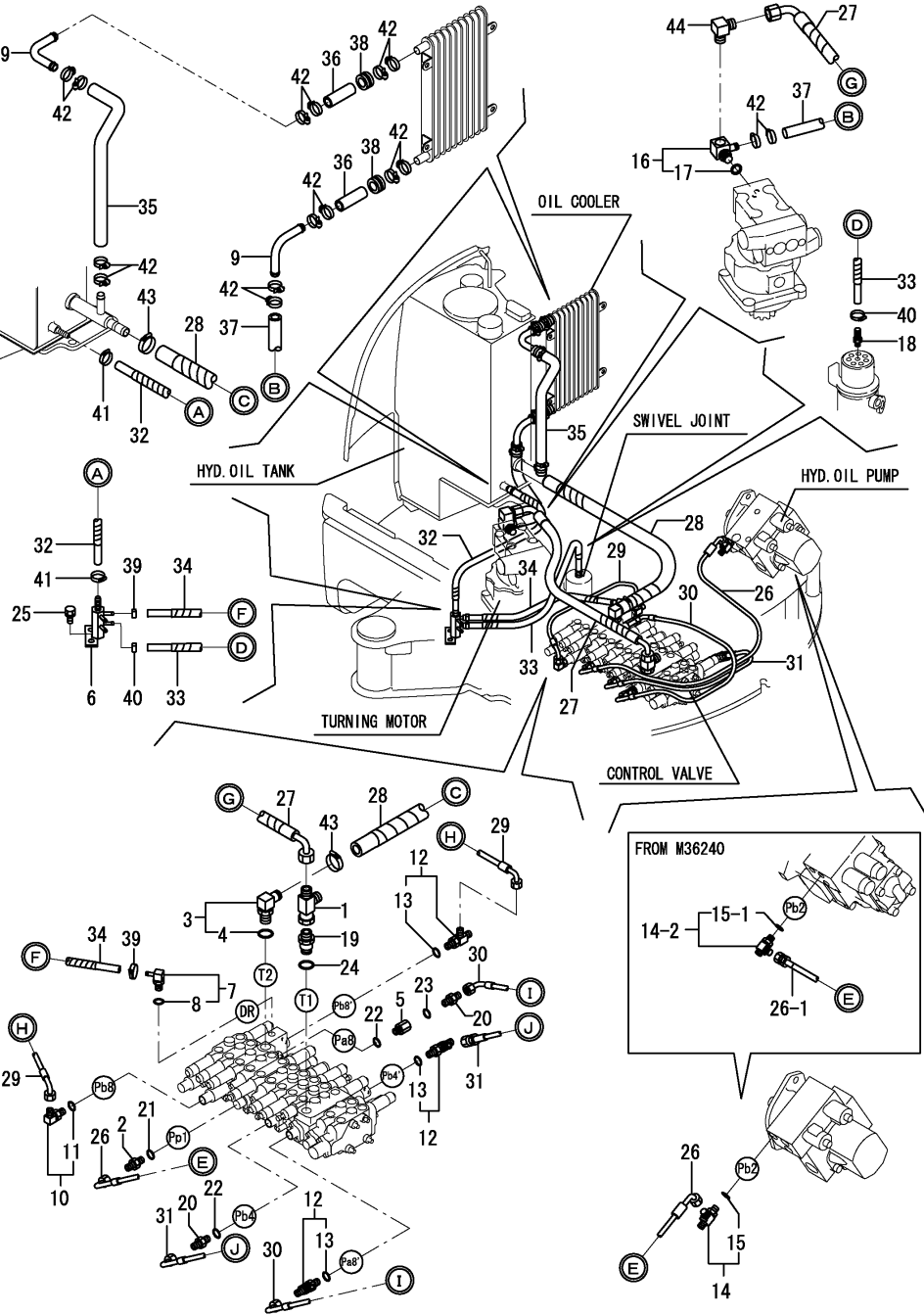
(A)=VIO20-3(KR)
(B)=
(C)=

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



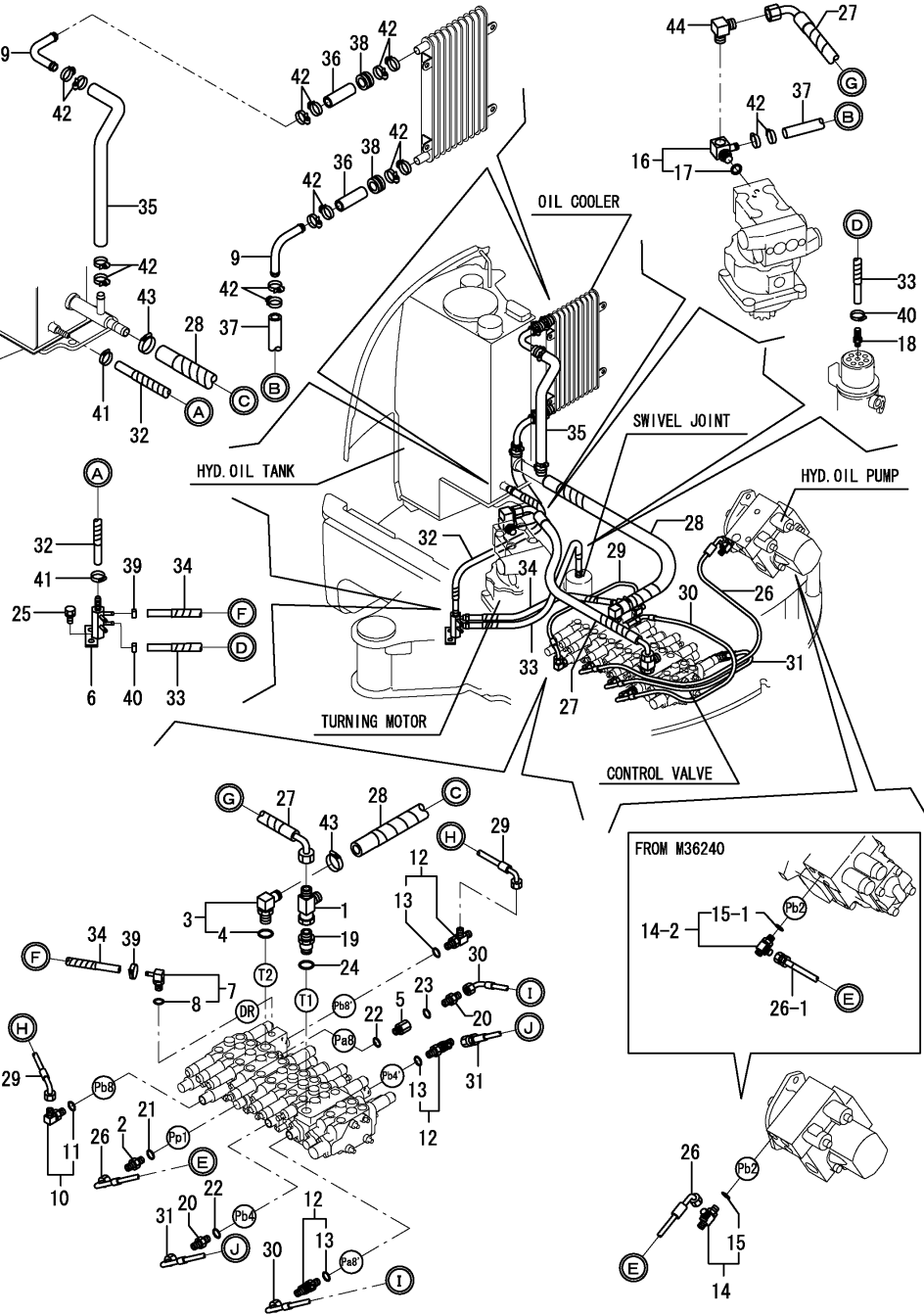
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172162-76131	ADAPTER	1							
2	1	172422-76130	CONNECTOR	2							
3	1	172141-76180	CONNECTOR ASSY	3							
3-1	1	172141-76181	CONNECTOR ASSY, 02FF	3							N
(A=M35241)											
4	2	24315-000110	O-RING, 1BP11.0	3							
4-1	2	41851-000110	O-RING	3							N
(A=M35241)											
5	1	172141-76180	CONNECTOR ASSY	1							
5-1	1	172141-76181	CONNECTOR ASSY, 02FF	1							N
(A=M35241)											
5-2	1	172123-76121	ADAPTER	1							S
(A=M36240)											
6	2	24315-000110	O-RING, 1BP11.0	1							
6-1	2	41851-000110	O-RING	1							N
(A=M35241)											
6-2	2	41851-000110	O-RING	1							Z
(A=M36240)											
7	1	172142-76181	JOINT ASSY	4							
8	2	24315-000140	O-RING, 1BP14.0	4							
9	1	172147-76260	CONNECTOR, 3/8X1/4	1							
10	1	172116-76381	ADAPTER, 64	3							
11	1	172141-76920	CONNECTOR ASSY	1							
12	2	24315-000140	O-RING, 1BP14.0	1							
13	1	24315-000140	O-RING, 1BP14.0	2							
13-1	1	41851-000140	O RING P 14.0 HNBR	2							N
(A=M35460)											
14	1	24315-000140	O-RING, 1BP14.0	3							
14-1	1	41851-000140	O RING P 14.0 HNBR	3							N
(A=M35460)											
15	1	24315-000140	O-RING, 1BP14.0	1							
15-1	1	41851-000140	O RING P 14.0 HNBR	1							N
(A=M35460)											
16	1	24315-000140	O-RING, 1BP14.0	1							
16-1	1	41851-000140	O RING P 14.0 HNBR	1							N
(A=M35460)											
17	1	172126-11510	BAND 300	1							
18	1	172456-78150	HOSE	1							
18-1	1	172A45-78600	HOSE	1							S
(A=M36240)											
19	1	172456-78170	HOSE	2							
20	1	172422-78200	HOSE	4							
21	1	172456-78200	HOSE	1							
22	1	172456-78210	HOSE	1							
23	1	172122-79930	CLAMP, HOSE	1							
24	1	41851-000110	O-RING	1							W
(A=M36240)											

Fig.62. HYD.OIL PIPING(RETURN)



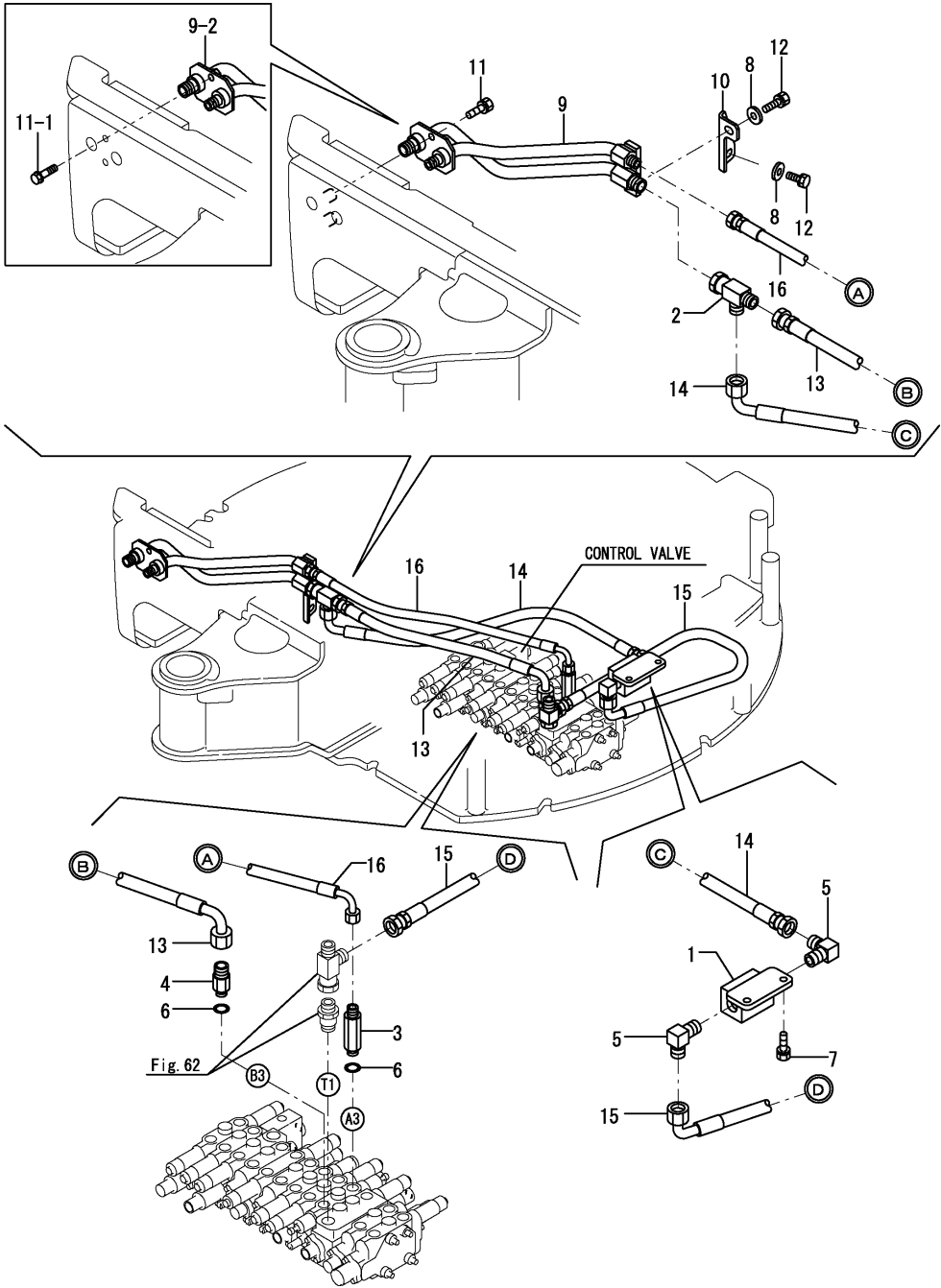
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172469-76110	CONNECTOR, 3X1/2	1							
2	1	172123-76121	ADAPTER	1							
3	1	172164-76131	ELBOW	1							
4	2	24315-000180	O-RING, 1BP18.0	1							
5	1	172422-76140	CONNECTOR	1							
6	1	172444-76150	JOINT	1							
7	1	172458-76150	NIPPLE, ELBOW	1							
8	2	24315-000110	O-RING, 1BP11.0	1							
9	1	172490-76150	PIPE	2							
10	1	172141-76180	CONNECTOR ASSY	1							
10-1	1	172141-76181	CONNECTOR ASSY, 02FF	1							N
(A=M35241)											
11	2	24315-000110	O-RING, 1BP11.0	1							
11-1	2	41851-000110	O-RING	1							N
(A=M35241)											
12	1	172162-76180	JOINT ASSY, 3-1/4	3							
12-1	1	172162-76181	JOINT ASSY	3							N
(A=M35241)											
13	2	24315-000110	O-RING, 1BP11.0	3							
13-1	2	41851-000110	O-RING	3							N
(A=M35241)											
14	1	172162-76180	JOINT ASSY, 3-1/4	1							
14-1	1	172162-76181	JOINT ASSY	1							N
(A=M35241)											
14-2	1	172187-76211	ELBOW	1							S
(A=M36240)											
14-3	1	172A23-76210	ELBOW	1							N
(A=M45001)											
15	2	24315-000110	O-RING, 1BP11.0	1							
15-1	2	41851-000110	O-RING	1							N
(A=M35241)											
16	1	172A23-76200	ELBOW	1							
17	2	24315-000140	O-RING, 1BP14.0	1							
18	1	172141-76220	NIPPLE	1							
19	1	172147-76271	CONNECTOR, 1/2X1/2	1							
20	1	172164-76330	JOINT, PF1/4-0.7	2							
21	1	24315-000110	O-RING, 1BP11.0	1							
21-1	1	41851-000110	O-RING	1							N
(A=M35460)											
22	1	24315-000110	O-RING, 1BP11.0	2							
22-1	1	41851-000110	O-RING	2							N
(A=M35460)											
23	1	24315-000110	O-RING, 1BP11.0	1							
23-1	1	41851-000110	O-RING	1							N
(A=M35460)											
24	1	24315-000180	O-RING, 1BP18.0	1							
24-1	1	41851-000180	O RING	1							N
(A=M35460)											
25	1	26013-100202	BOLT, M10X 20	2							
26	1	172456-78160	HOSE	1							
26-1	1	172456-78161	HOSE F403BC091S	1							N

Fig.62. HYD.OIL PIPING(RETURN)



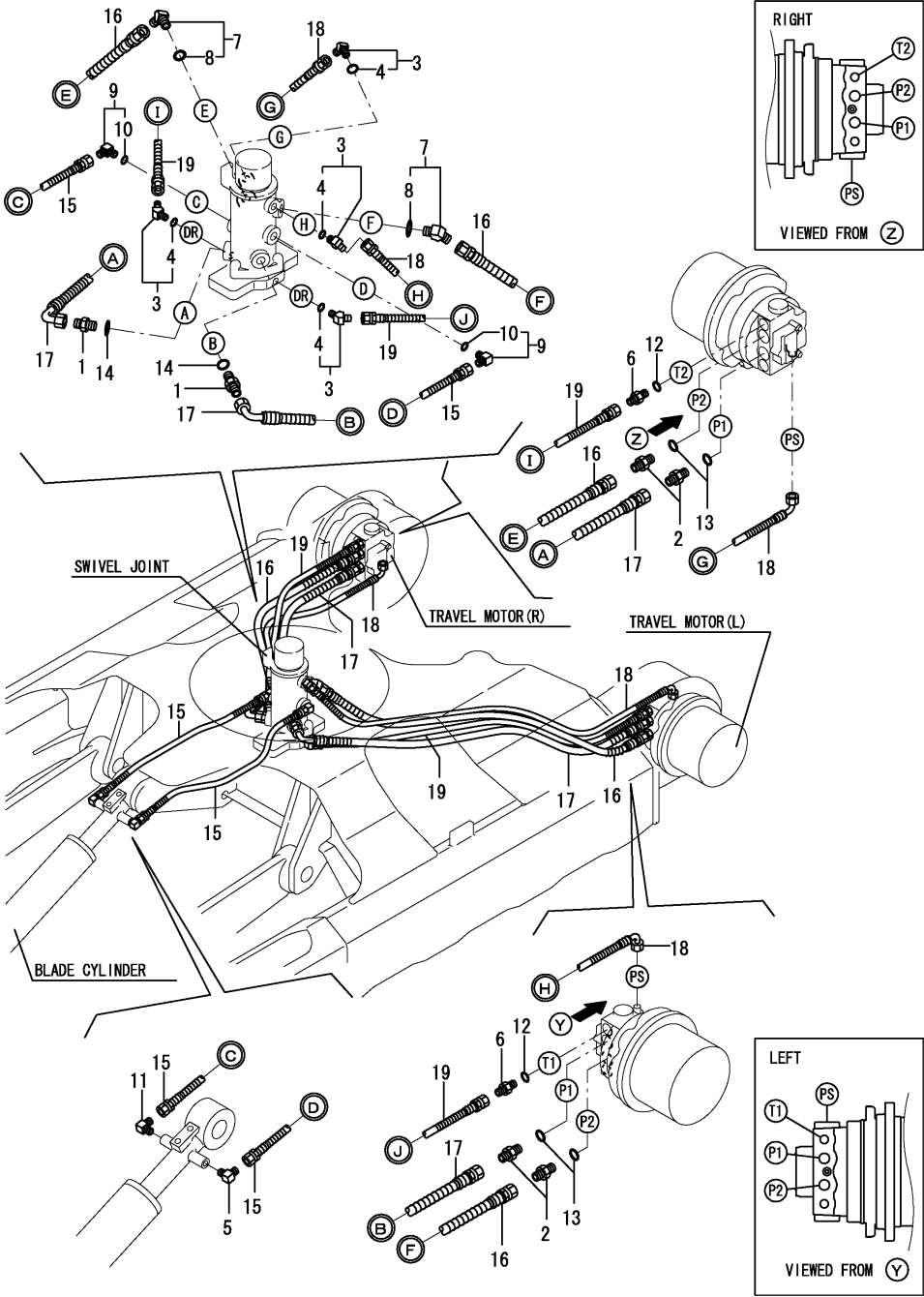
				(A)=VIO20-3(KR)			(D)=		
				(B)=			(E)=		
				(C)=			(F)=		
No.	Lev.	Parts No.	Description	Q'ty				I	R
				(A)	(B)	(C)	(D)	(E)	(F)
(A=M45001)									
27	1	172456-78260	HOSE	1					
28	1	172456-78270	HOSE	1					
29	1	172458-78290	HOSE	1					
30	1	172458-78300	HOSE	1					
31	1	172458-78310	HOSE	1					
32	1	172165-78412	HOSE	1					
33	1	172458-78530	HOSE	1					
34	1	172458-78540	HOSE	1					
35	1	172A23-78840	HOSE	1					
36	1	172A23-78850	HOSE	2					
37	1	172A23-78860	HOSE	1					
38	1	29311-252000	GROMET, 25.0X2	2					
39	1	23000-013000	CLAMP, 13	2					
40	1	23000-013000	CLAMP, 13	2					
41	1	23001-016000	CLAMP, HOSE 16	2					
42	1	23001-022000	CLAMP, HOSE 22	16					
43	1	23001-035000	CLAMP, HOSE 35	2					
44	1	23393-040000	JOINT, 90RGI-1/2	1					

Fig.63. HYD.OIL PIPING(P.T.O. : FRAME END)



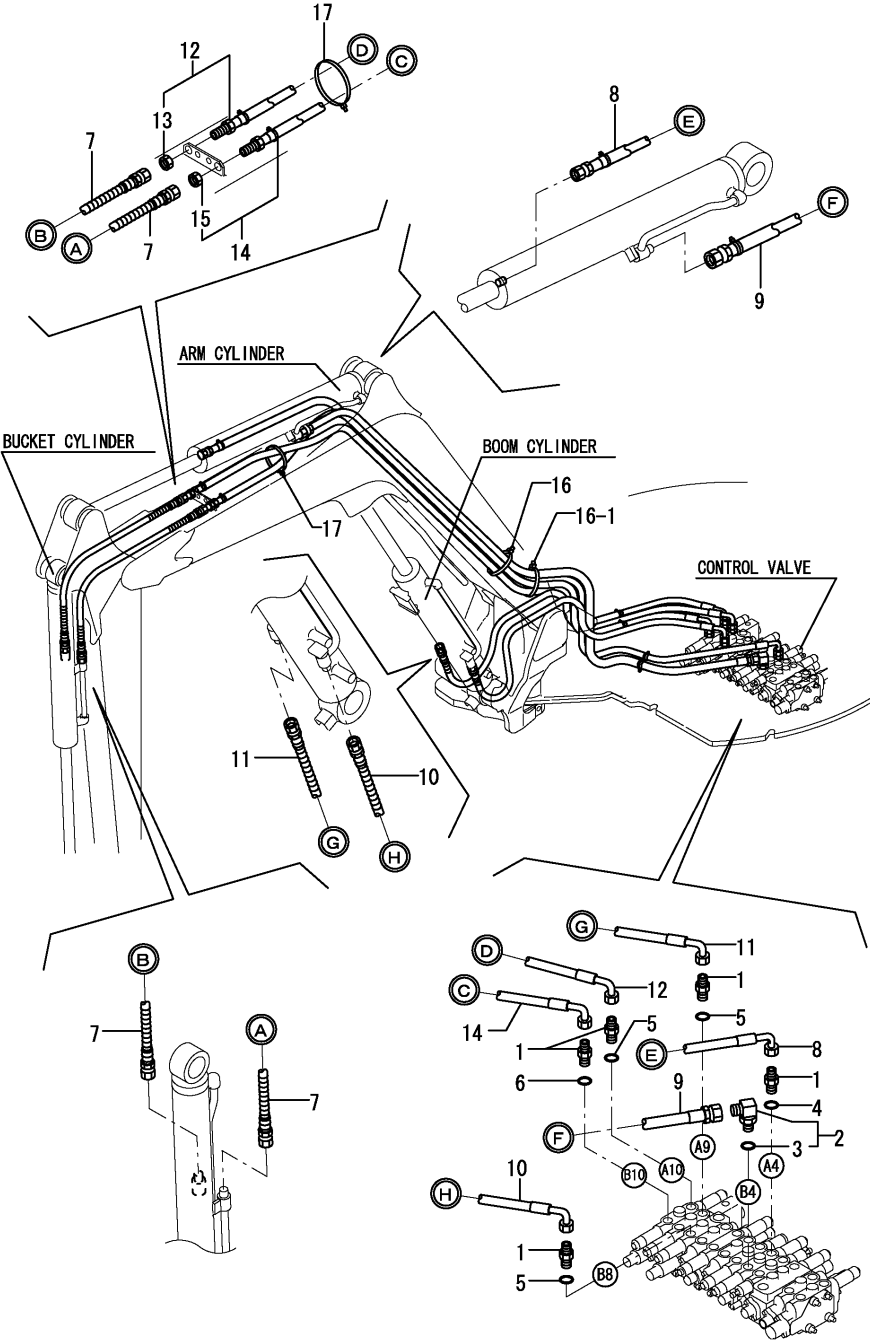
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172183-74820	VALVE, STOP	1							
1-1	1	172183-74821-4	STOPPER VALVE 08 ASS	1							R
(A=M/#32563)											
1-2	1	172183-74822-4	STOPPER VALVE 08 ASS	1							N
(A=M36241)											
2	1	172469-76110	CONNECTOR, 3X1/2	1							
3	1	172162-76131	ADAPTER	1							
4	1	172422-76180	CONNECTOR, PF3/8X1/2	1							
5	1	23393-040000	JOINT, 90RGI-1/2	2							
6	1	24315-000140	O-RING, 1BP14.0	2							
6-1	1	41851-000140	O RING P 14.0 HNBR	2							N
(A=M35460)											
7	1	26013-100252	BOLT, M10X 25	2							
8	1	172110-36010	COLLAR	2							
9	1	172456-76800-1	TUBE	1							
9-1	1	172456-76800-3	TUBE	1							S
(A=M/#32643)											
9-2	1	172456-76801	TUBE ASSY, F-END	1							S
(A=M45001)											
10	1	172456-76880-1	PLATE, MOUNT	1							
10-1	1	172456-76880-3	PLATE, MOUNT	1							S
(A=M/#32643)											
11	1	26013-100202	BOLT, M10X 20	2							
11-1	1	26013-100352	BOLT, M10X 35	2							S
(A=M45001)											
12	1	26013-100252	BOLT, M10X 25	2							
13	1	172469-78550	HOSE	1							
14	1	172469-78560	HOSE	1							
15	1	172469-78570	HOSE	1							
16	1	172456-78970	HOSE	1							

OCS10-M46401 HYDRAULIC OIL PIPING
Fig.64. HYD.OIL PIPING(TRACK FRAME)



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172730-75141	ADAPTER	2							
2	1	172730-75141	ADAPTER	4							
3	1	172173-76101	CONNECTOR ASSY	4							
3-1	1	172173-76102	CONNECTOR ASSY	4							N
(A=M35241)											
4	2	24315-000110	O-RING, 1BP11.0	4							
4-1	2	41851-000110	O-RING	4							N
(A=M35241)											
5	1	172421-76100	CONNECTOR	1							
6	1	172123-76121	ADAPTER	2							
7	1	172644-76161	ELBOW, ADJUST	2							
8	2	24315-000140	O-RING, 1BP14.0	2							
9	1	172141-76180	CONNECTOR ASSY	2							
9-1	1	172141-76181	CONNECTOR ASSY, 02FF	2							N
(A=M35241)											
10	2	24315-000110	O-RING, 1BP11.0	2							
10-1	2	41851-000110	O-RING	2							N
(A=M35241)											
11	1	23393-020000	JOINT, 90RG1-1/4	1							
12	1	24315-000110	O-RING, 1BP11.0	2							
12-1	1	41851-000110	O-RING	2							N
(A=M35460)											
13	1	24315-000140	O-RING, 1BP14.0	4							
13-1	1	41851-000140	O RING P 14.0 HNBR	4							N
(A=M35460)											
14	1	24315-000140	O-RING, 1BP14.0	2							
14-1	1	41851-000140	O RING P 14.0 HNBR	2							N
(A=M35460)											
15	1	172421-78120	HOSE	2							
16	1	172421-78131	HOSE	2							
17	1	172456-78291	HOSE	2							
18	1	172456-78301	HOSE	2							
19	1	172456-78312	HOSE	2							

Fig.65. HYD.OIL PIPING(CONTROL V.- BOOM CYL.- ARM CYL.- BUCKET CYL.)

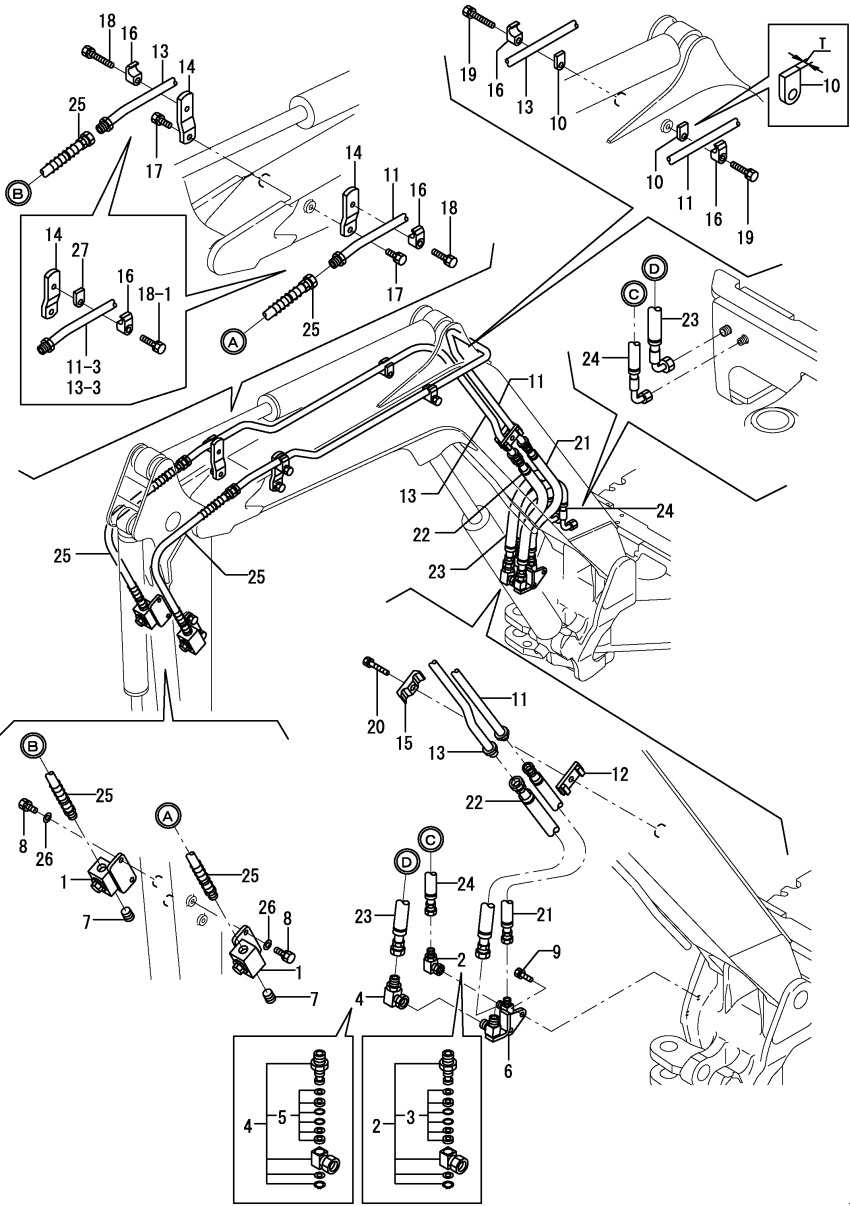


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172730-75141	ADAPTER	5							
2	1	172142-76181	JOINT ASSY	1							
3	2	24315-000140	O-RING, 1BP14.0	1							
4	1	24315-000140	O-RING, 1BP14.0	1							
4-1	1	41851-000140	O RING P 14.0 HNBR	1							N
(A=M35460)											
5	1	24315-000140	O-RING, 1BP14.0	3							
5-1	1	41851-000140	O RING P 14.0 HNBR	3							N
(A=M35460)											
6	1	24315-000140	O-RING, 1BP14.0	1							
6-1	1	41851-000140	O RING P 14.0 HNBR	1							N
(A=M35460)											
7	1	172957-78150	HOSE	2							
8	1	172456-78180	HOSE	1							
9	1	172456-78190	HOSE	1							
9-1	1	172456-78191	HOSE H206BB232K	1							N
(A=M36292)											
10	1	172456-78220	HOSE	1							
11	1	172456-78230	HOSE	1							
12	1	172456-78241	HOSE	1							
13	2	172455-79770	NUT, LOCK	1							
14	1	172456-78251	HOSE	1							
15	2	172455-79770	NUT, LOCK	1							
16	1	172122-79930	CLAMP, HOSE	1							
16-1	1	172122-79930	CLAMP, HOSE	2							K
(A=MXXXXXX)											
17	1	172122-79930	CLAMP, HOSE	1							

Fig.66. HYD.OIL PIPING(P.T.O. : ARM END)

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

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



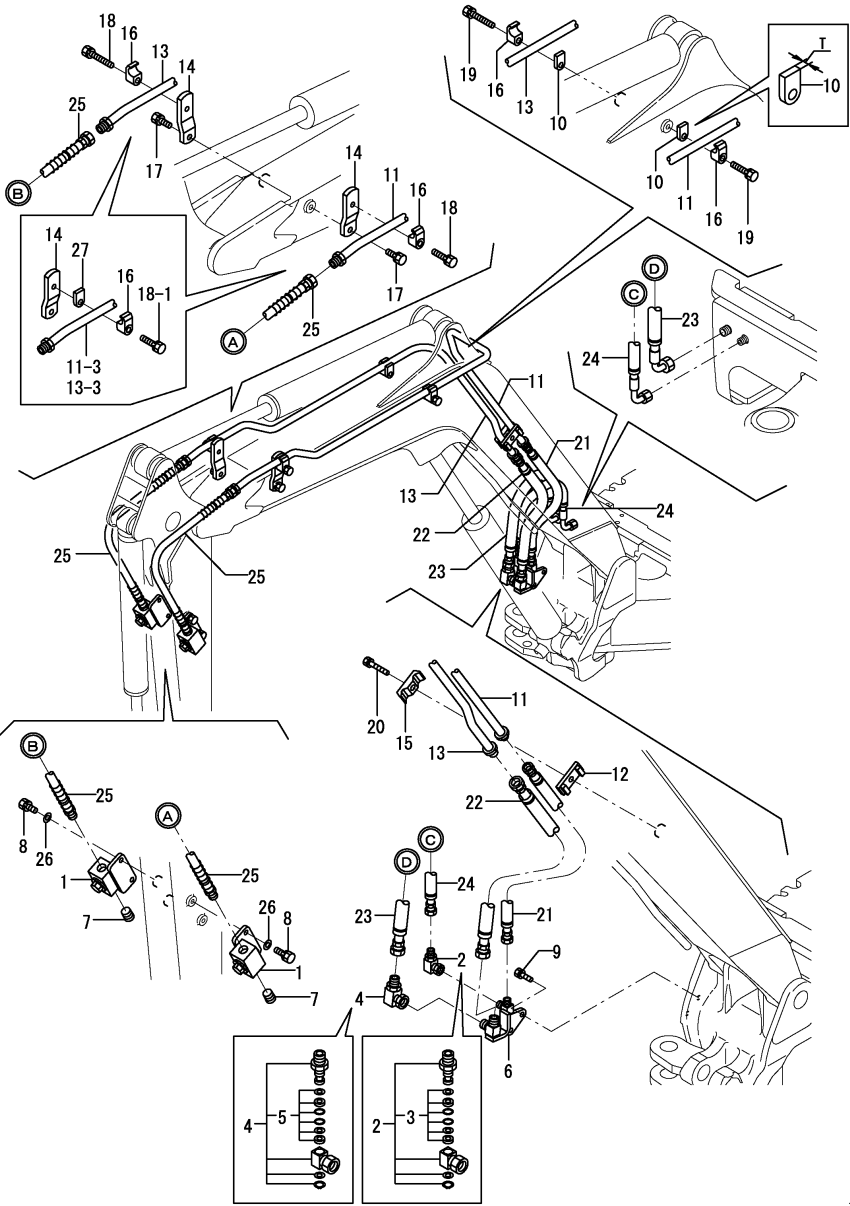
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172183-74820-5	VALVE, STOP	2							
1-1	1	172183-74821	VALVE, STOP	2							R
(A=M32563)											
1-2	1	172183-74821-3	VALVE, STOP	2							S
(A=M34345)											
1-3	1	172183-74822-3	VALVE, STOP (2J)	2							N
(A=M36241)											
1-4	1	172183-74822-Y	VALVE, STOP	2							S
(A=M45501)											
2	1	172456-76250	JOINT, SWIVEL 3/8	1							
3	2	172456-76260	SEAL SET, 3/8	1							
4	1	172142-76270	JOINT, SWIVEL 1/2	1							
5	2	172142-77040	SEAL SET	1							
6	1	172456-76700	JOINT ASSY, PTO	1							
7	1	23871-040000	PLUG, R04	2							
8	1	26013-100252	BOLT, SPRING M10X 25	4							
9	1	26013-100252	BOLT, SPRING M10X 25	2							
10	1	172183-76250-1	PLATE	2							
10-1	1	172183-76250-2	PLATE, SPACER	2							S
(A=M34345)											
10-2	1	172183-76250-Y	PLATE, SPACER	2							S
(A=M45501)											
10-3	1	172187-76690-Y	PLATE	2							S 2
(A=M45568)											
11	1	172456-76600-1	TUBE ASSY, PTO	1							
11-1	1	172456-76600-2	TUBE ASSY, PTO	1							S
(A=M34345)											
11-2	1	172456-76600-Y	TUBE ASSY, PTO	1							S
(A=M45501)											
11-3	1	172456-76601-Y	TUBE ASSY, PTO	1							F 1
(A=M45568)											
12	1	172175-76640-1	SPACER ASSY	1							
12-1	1	172175-76640-2	SPACER ASSY	1							S
(A=M34345)											
12-2	1	172175-76640-Y	SPACER ASSY	1							S
(A=M45501)											
13	1	172456-76650-1	TUBE ASSY, PTO	1							
13-1	1	172456-76650-2	TUBE ASSY, PTO	1							S
(A=M34345)											
13-2	1	172456-76650-Y	TUBE ASSY, PTO	1							S
(A=M45501)											
13-3	1	172456-76651-Y	TUBE ASSY, PTO	1							F 1
(A=M45568)											
14	1	172458-76680-1	STAY	2							
14-1	1	172458-76680-2	STAY	2							S
(A=M34345)											
14-2	1	172458-76680-Y	STAY	2							S
(A=M45501)											
15	1	172175-76750-5	CLAMP, PLUMBING 1/2	1							
15-1	1	172175-76750-1	CLAMP, PLUMBING 1/2	1							S
(A=M34345)											

Remarks
(1)Interchangeable by simultaneous replacement with Ref.No.10-3,18-1, 19-1,27.
(2)T=Ref.No.10-2:9mm, No.10-3:16mm.

Fig.66. HYD.OIL PIPING(P.T.O. : ARM END)

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

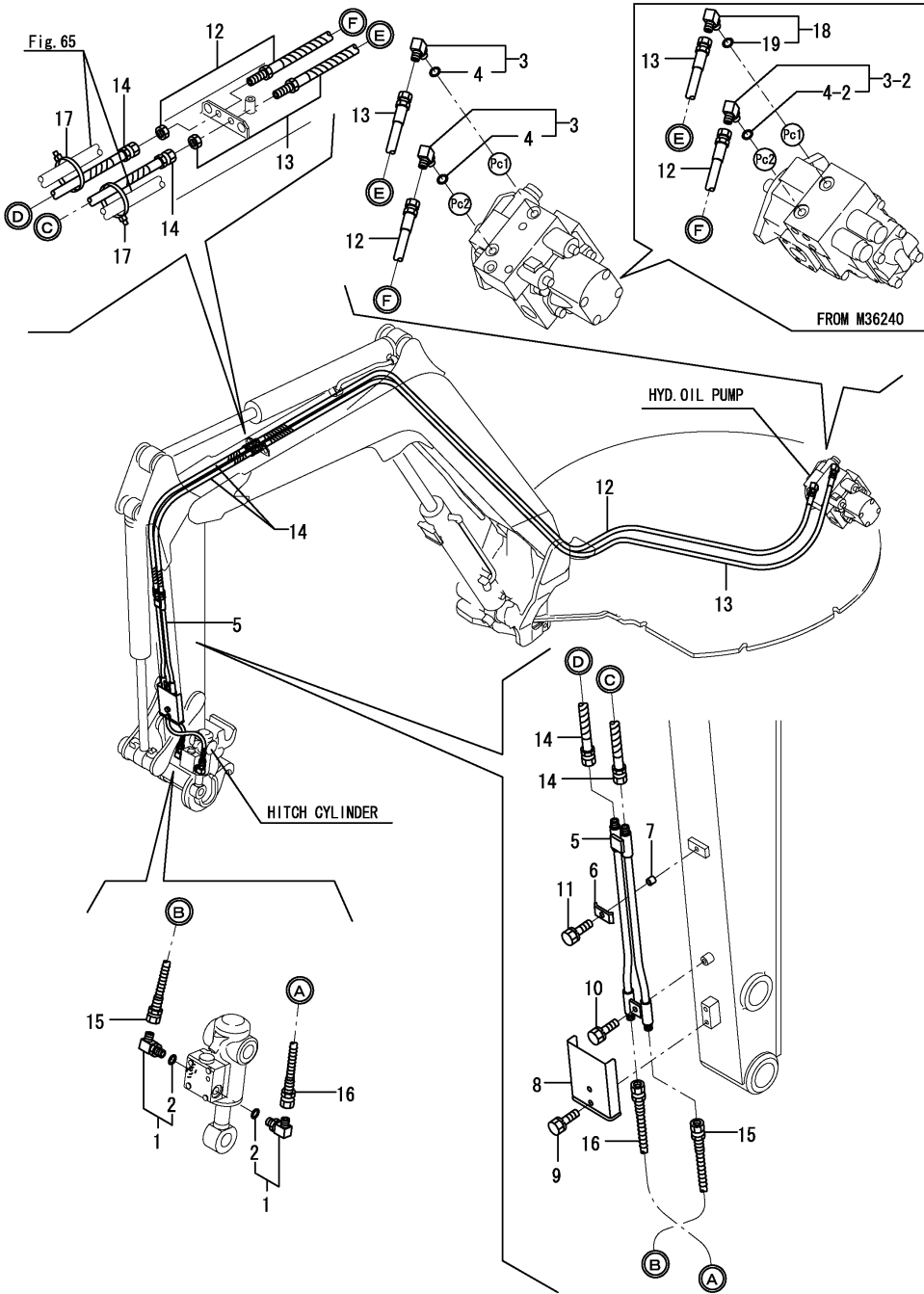
(D)=
(E)=
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
15-2	1	172175-76750-Y (A=M45501)	CLAMP, PLUMBING 1/2	1							S
16	1	172142-76950	CLAMP	4							
16-1	1	172142-76950-6 (A=M34345)	CLAMP	4							S
16-2	1	172142-76950-Y (A=M45501)	CLAMP, 1/2	4							S
17	1	26013-120302	BOLT, SPRING M12X 30	2							
18	1	26013-120402	BOLT, SPRING M12X 40	2							
18-1	1	26013-120502 (A=M45568)	BOLT, SPRING M12X 50	2							S
18-2	1	26014-120552 (A=*2016.05.)	BOLT, M12X 55	2							N
19	1	26013-120502	BOLT, SPRING M12X 50	2							
19-1	1	26013-120602 (A=M45568)	BOLT, SPRING M12X 60	2							S
19-2	1	26014-120602 (A=*2016.05.)	BOLT, M12X 60	2							N
20	1	26013-120552	BOLT, SPRING M12X 55	1							
20-1	1	26013-120602 (A=M45568)	BOLT, SPRING M12X 60	1							S
21	1	172469-78510	HOSE	1							
22	1	172469-78520	HOSE	1							
23	1	172469-78530	HOSE	1							
24	1	172469-78540	HOSE	1							
25	1	172456-78910	HOSE	2							
26	1	22117-100000	WASHER, 10	4							W
27	1	172183-76250-Y (A=M45568)	PLATE, SPACER	2							W

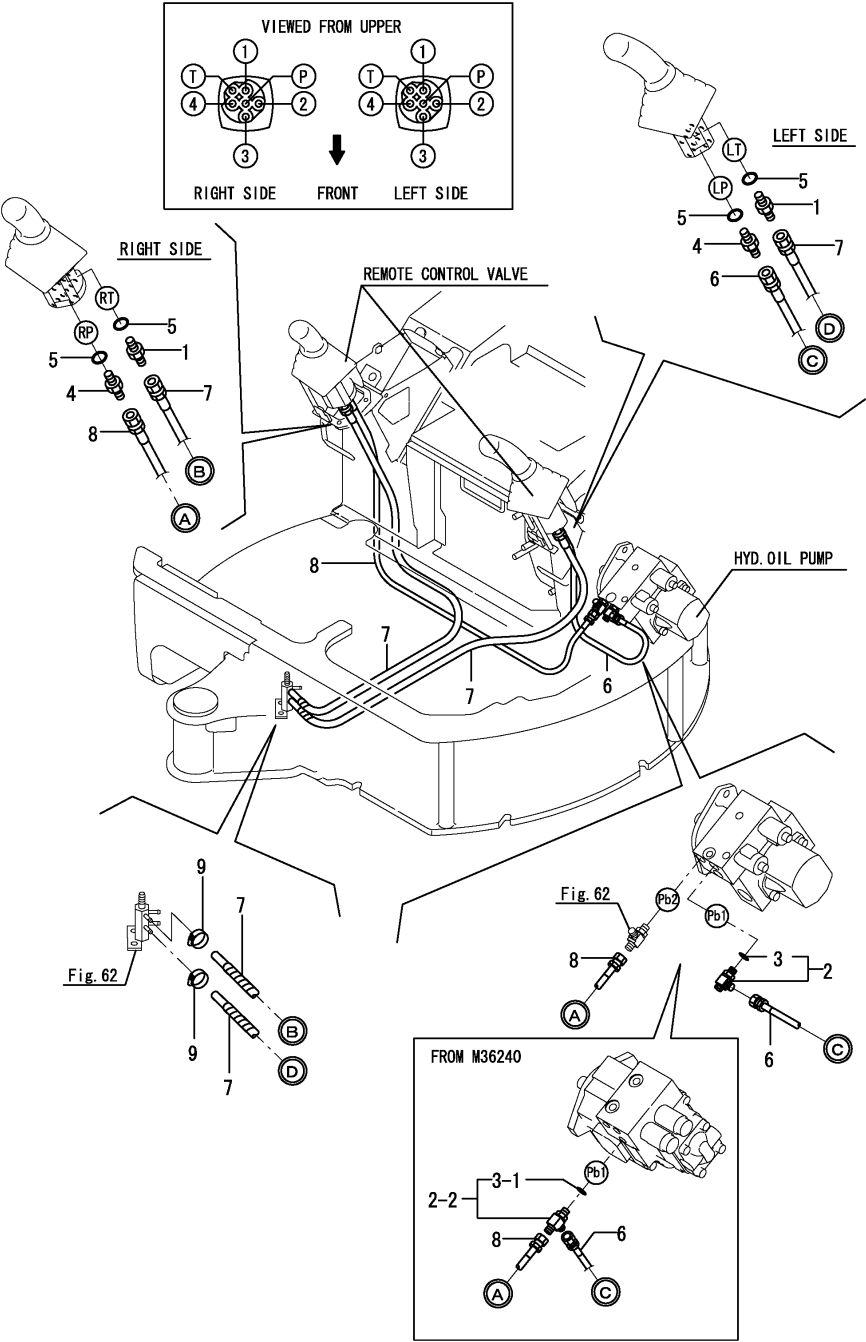
Remarks
(1)Interchangeable by simultaneous replacement with Ref.No.10-3,18-1,19-1,27.
(2)T=Ref.No.10-2:9mm, No.10-3:16mm.

Fig.67. HYD.OIL PIPING(QUICK COUPLER)



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172958-76130	ELBOW	2							
2	2	24315-000110	O-RING, 1BP11.0	2							
3	1	172141-76180	CONNECTOR ASSY	2							
3-1	1	172141-76181	CONNECTOR ASSY, 02FF	2							N
3-2	1	172141-76181	CONNECTOR ASSY, 02FF	1							K
4	2	24315-000110	O-RING, 1BP11.0	2							
4-1	2	41851-000110	O-RING	2							N
4-2	2	41851-000110	O-RING	1							K
5	1	172956-76100-1	TUBE, HITCH	1							
5-1	1	172956-76100-3	TUBE, HITCH	1							S
5-2	1	172956-76100-Y	TUBE, HITCH	1							S
6	1	172110-76170-1	PLATE	1							
6-1	1	172110-76170-3	PLATE	1							S
6-2	1	172110-76170	PLATE	1							R
7	1	172137-76580	COLLAR	1							
8	1	172956-81901-1	COVER, ARM	1							
8-1	1	172956-81901-3	COVER, ARM	1							S
8-2	1	172956-81901-Y	COVER, ARM	1							S
9	1	26013-080162	BOLT, M8X 16	2							
10	1	26013-080162	BOLT, M8X 16	1							
11	1	26013-080252	BOLT, M8X 25	1							
12	1	172956-78100	HOSE	1							
13	1	172956-78110	HOSE	1							
14	1	172957-78111	HOSE	2							
15	1	172956-78120	HOSE	1							
16	1	172958-78200	HOSE	1							
17	1	172122-79930	CLAMP, HOSE	2							
18	1	172958-76130	ELBOW	1							W
19	2	24315-000110	O-RING, 1BP11.0	1							

Fig.68. CONTROL PIPING(PUMP - CONTROL VALVE)

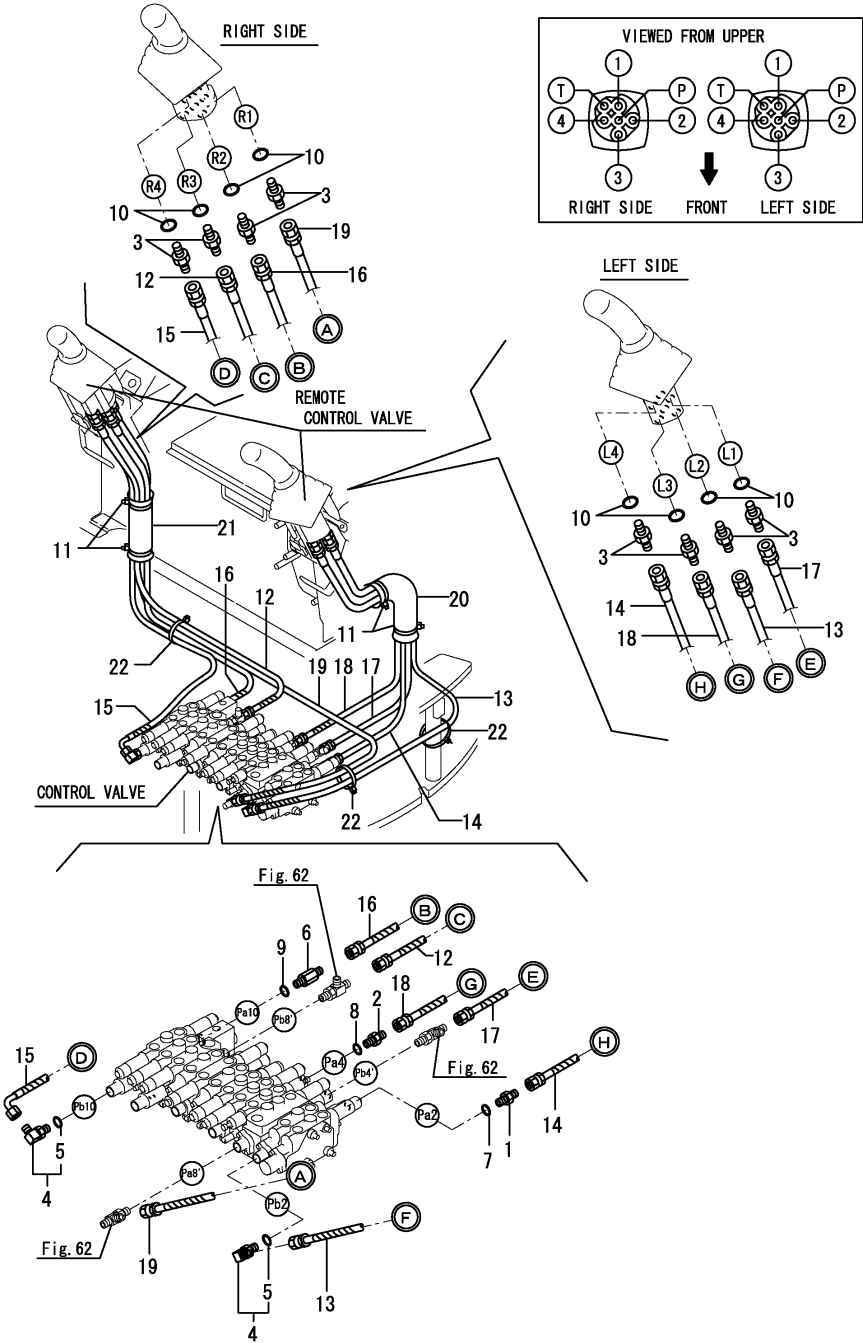


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172123-76121	ADAPTER	2							
2	1	172187-76210	ELBOW	1							
2-1	1	172187-76211	ELBOW	1							N
(A=M34222)											
2-2	1	172162-76181	JOINT ASSY	1							S
(A=M36240)											
3	2	24315-000110	O-RING, 1BP11.0	1							
3-1	2	41851-000110	O-RING	1							N
(A=M34222)											
4	1	172455-76220	CONNECTOR	2							
5	1	24315-000110	O-RING, 1BP11.0	4							
5-1	1	41851-000110	O-RING	4							N
(A=M35460)											
6	1	172469-78180	HOSE	1							
7	1	172469-78190	HOSE	2							
8	1	172469-78200	HOSE	1							
9	1	23000-013000	CLAMP, 13	2							

Fig.69. CONTROL PIPING(REMOTE CONTROL VALVE - CONTROL VALVE)

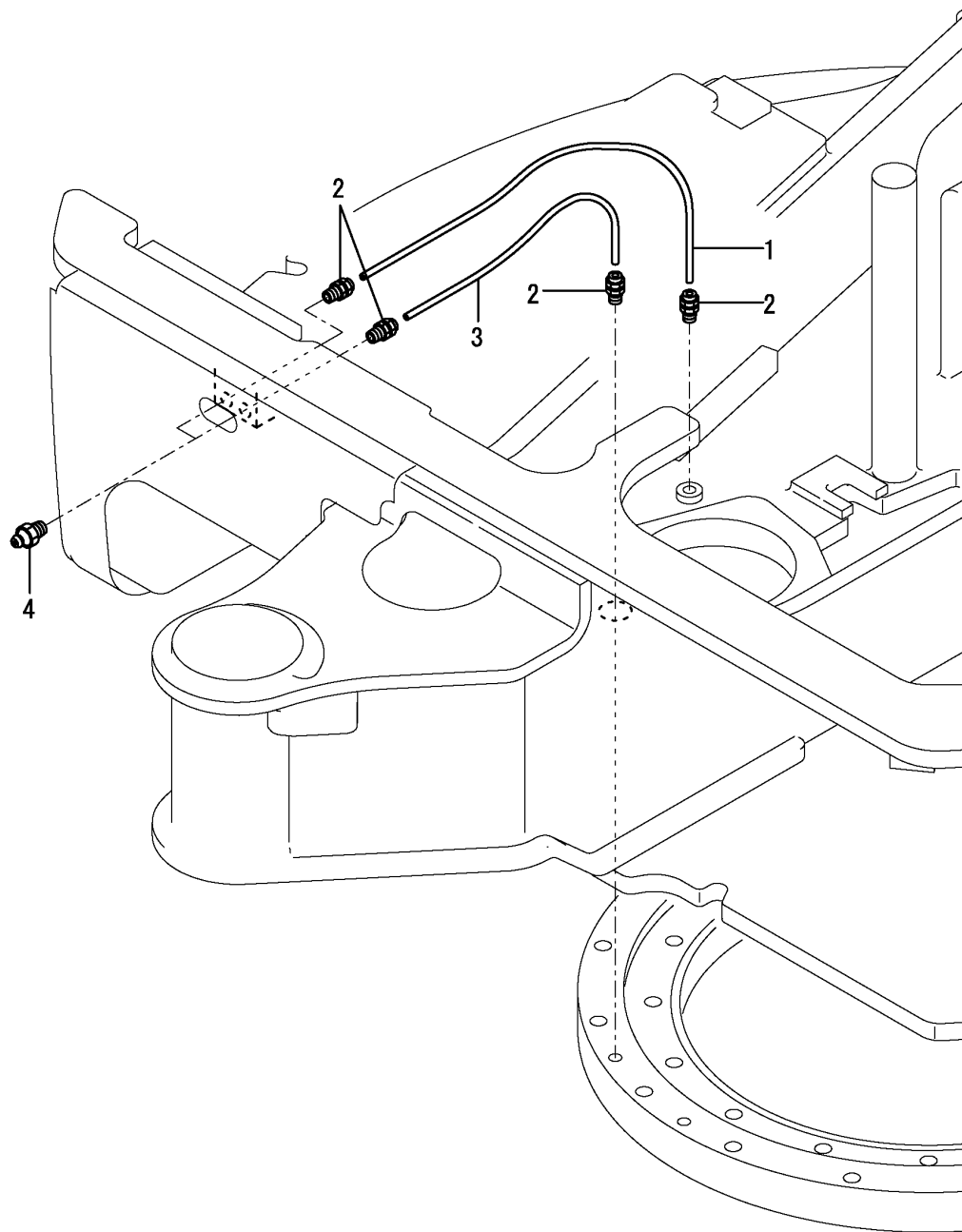
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(B)=
(C)=

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



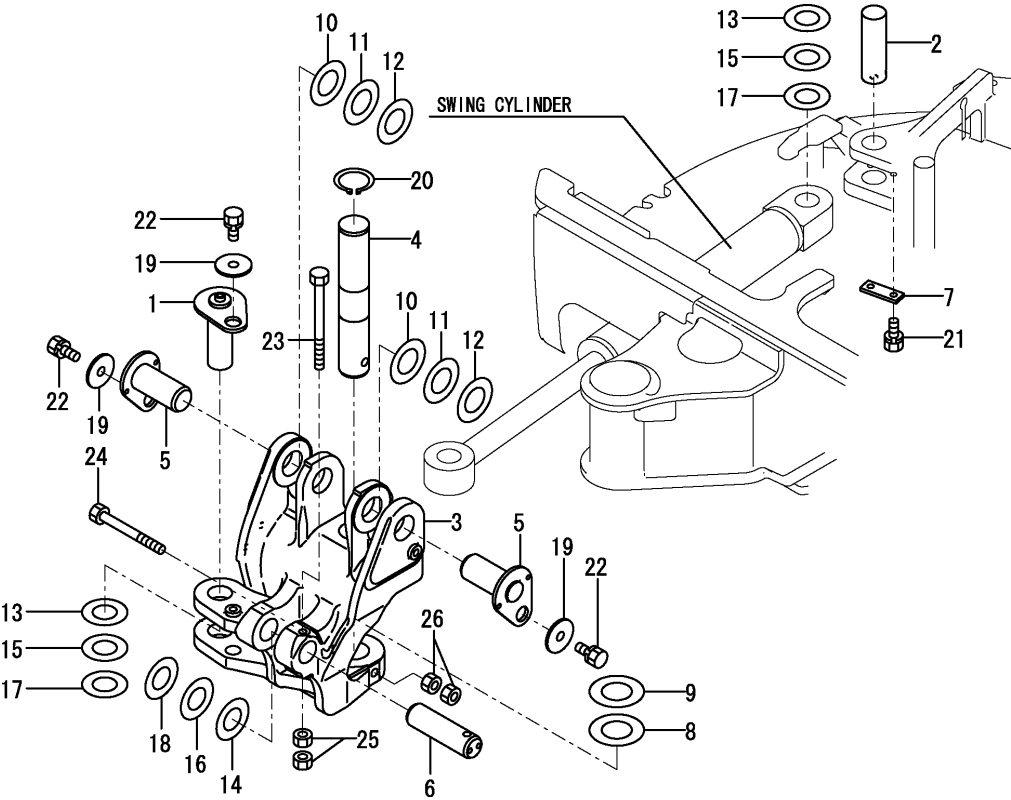
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172123-76121	ADAPTER	1							
2	1	172123-76121	ADAPTER	1							
3	1	172123-76121	ADAPTER	8							
4	1	172141-76180	CONNECTOR ASSY	2							
4-1	1	172141-76181	CONNECTOR ASSY, 02FF	2							N
(A=M35241)											
5	2	24315-000110	O-RING, 1BP11.0	2							
5-1	2	41851-000110	O-RING	2							N
(A=M35241)											
6	1	172183-76200	CONNECTOR	1							
7	1	24315-000110	O-RING, 1BP11.0	1							
7-1	1	41851-000110	O-RING	1							N
(A=M35460)											
8	1	24315-000110	O-RING, 1BP11.0	1							
8-1	1	41851-000110	O-RING	1							N
(A=M35460)											
9	1	24315-000110	O-RING, 1BP11.0	1							
9-1	1	41851-000110	O-RING	1							N
(A=M35460)											
10	1	24315-000110	O-RING, 1BP11.0	8							
10-1	1	41851-000110	O-RING	8							N
(A=M35460)											
11	1	172126-11510	BAND 300	4							
12	1	172468-78130	HOSE	1							
13	1	172469-78210	HOSE	1							
14	1	172469-78220	HOSE	1							
15	1	172469-78230	HOSE	1							
16	1	172469-78240	HOSE	1							
17	1	172469-78250	HOSE	1							
18	1	172469-78260	HOSE	1							
19	1	172469-78270	HOSE	1							
20	1	172472-78800	SPONGE, HOSE	1							
21	1	172165-79810	SPONGE, HOSE	1							
22	1	172122-79930	CLAMP, HOSE	4							

Fig.70. GREASING



No.	Lev.	Parts No.	Description	(A)=VIO20-3(KR)		(D)=		(E)=		(F)=	I	R
				(A)	(B)	(C)	(D)	(E)	(F)			
1	1	172186-77100	HOSE	1								
2	1	172141-77800	JOINT, GREASE	4								
3	1	172151-77801	HOSE	1								
4	1	24761-020000	NIPPLE, GREASE PT1/8	2								

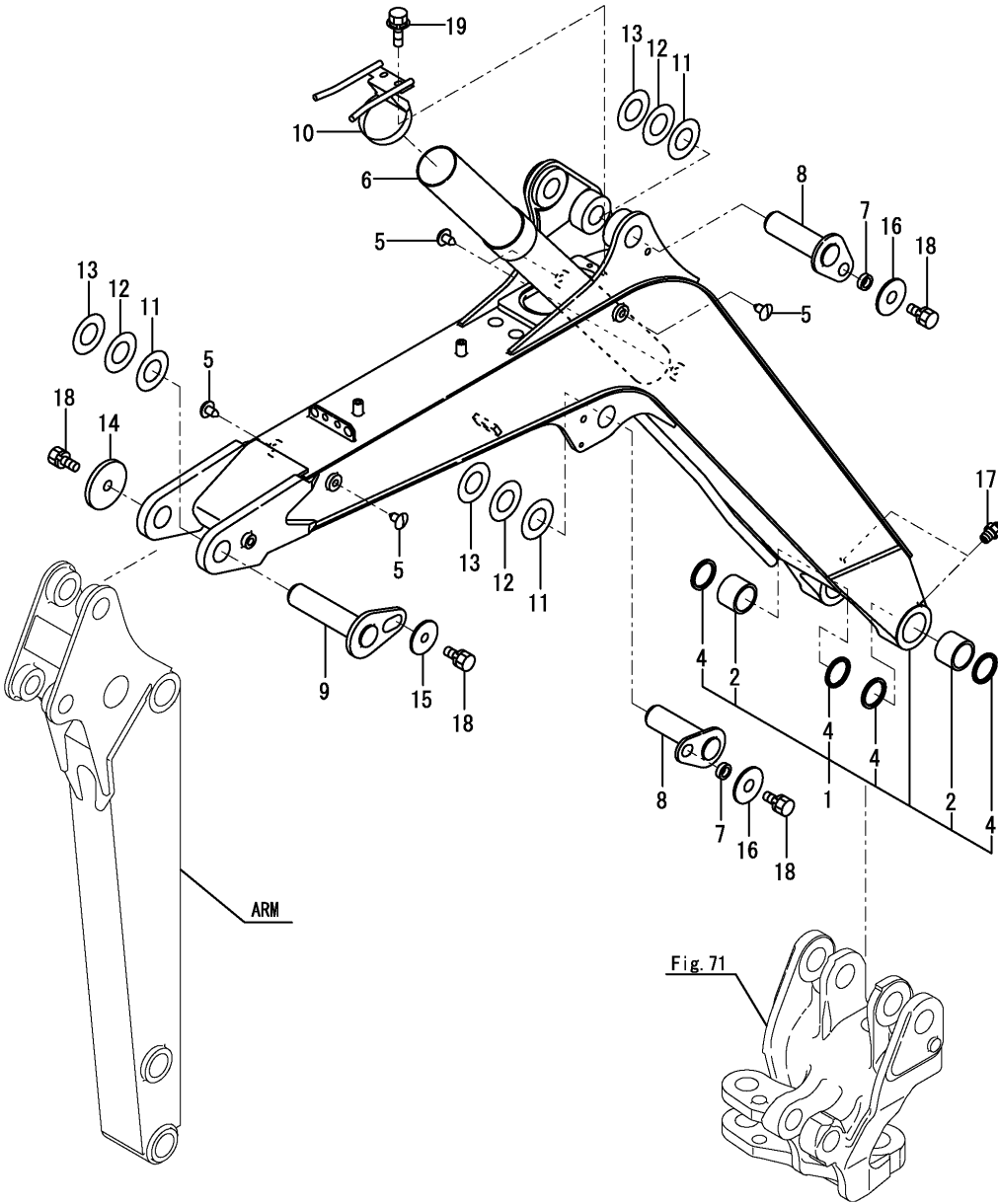
Fig.71. BOOM BRACKET



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

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

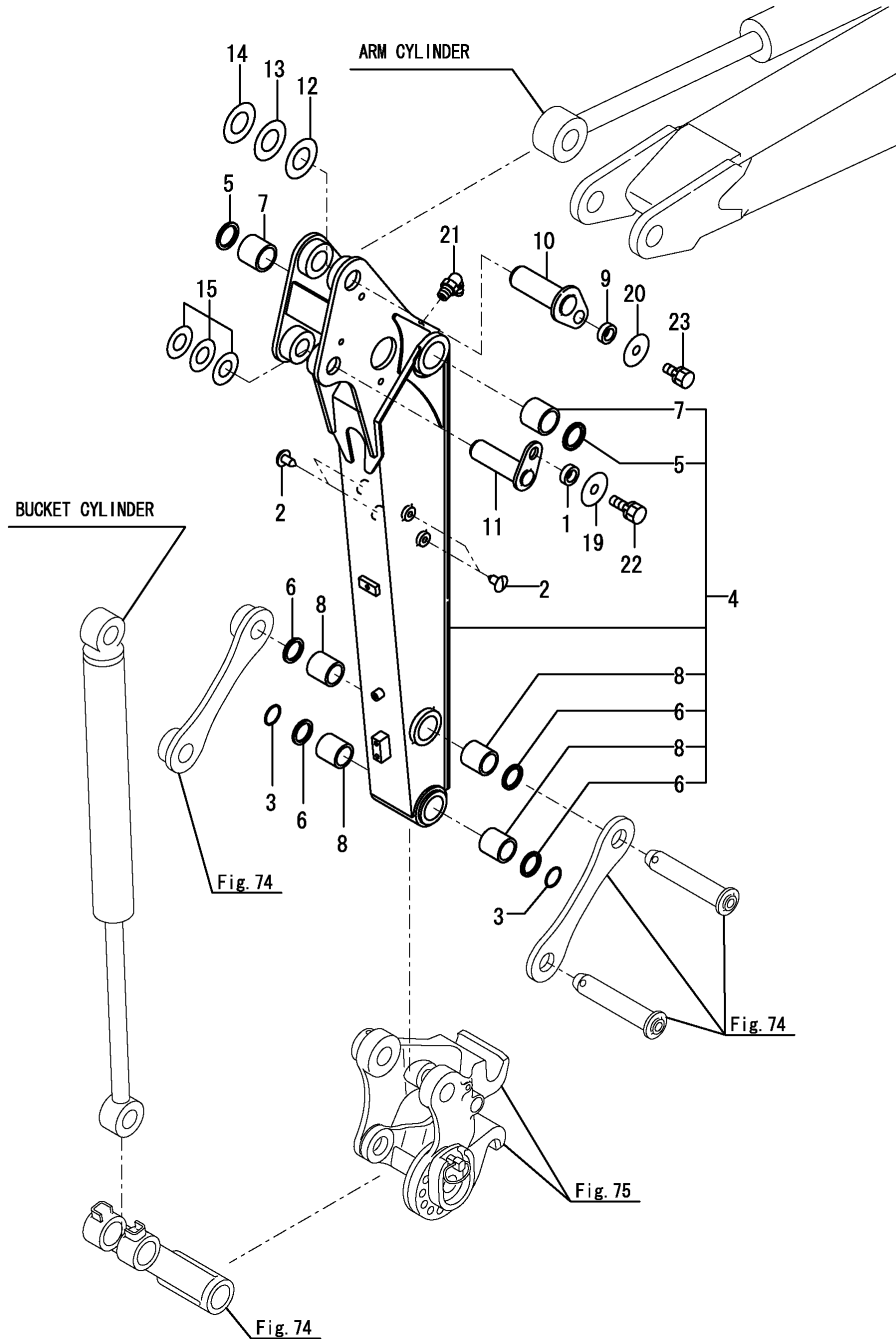
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-81900	PIN 40X103	1							
2	1	172458-81920	PIN	1							
3	1	172456-82300-1	BRACKET, BOOM	1							
3-1	1	172456-82300-2 (A=M34345)	BRACKET, BOOM(2J)	1							S
3-2	1	172456-82300-Y (A=M45501)	BRACKET, BOOM	1							S
4	1	172456-82330	PIN 50X264	1							
5	1	172456-82340	PIN 45X98	2							
6	1	172456-82360	PIN 40X124	1							
6-1	1	172456-82361 (A=M34875)	PIN 40X124	1							N
7	1	172456-82400-2	PLATE, LOCK	1							
7-1	1	172456-82400-3 (A=M/#32643)	PLATE, LOCK	1							S
8	1	172165-82520	SHIM	1							
9	1	172165-82530	SHIM	1							
10	1	172165-82550	SHIM	2							
11	1	172165-82560	SHIM	2							
12	1	172165-82570	SHIM	2							
13	1	172165-82580	SHIM	2							
14	1	172165-82580	SHIM	1							
15	1	172165-82590	SHIM	2							
16	1	172165-82590	SHIM	1							
17	1	172165-82600	SHIM	2							
18	1	172165-82600	SHIM	1							
19	1	22157-120000	WASHER, 12	3							
20	1	22242-000500	RING, 50	1							
21	1	26013-100202	BOLT, M10X 20	2							
22	1	26013-120252	BOLT, M12X 25	3							
23	1	26116-121102	BOLT, M12X110 PLATED	1							
24	1	26206-141502	BOLT, M14X150 PLATED	1							
25	1	26716-120002	NUT, M12	2							
26	1	26716-140002	NUT, M14	2							



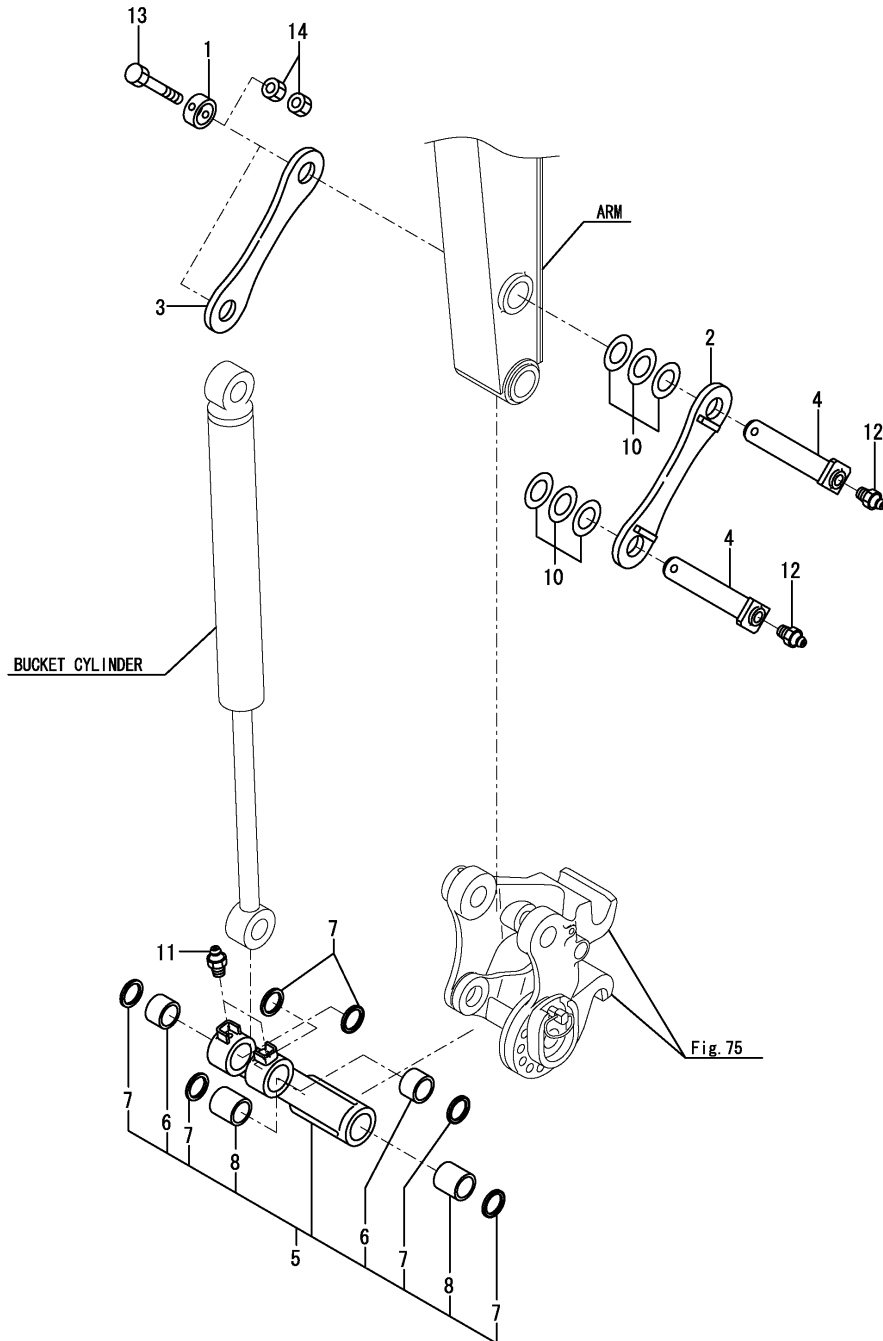
(A)=VIO20-3(KR)
(B)=
(C)=

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

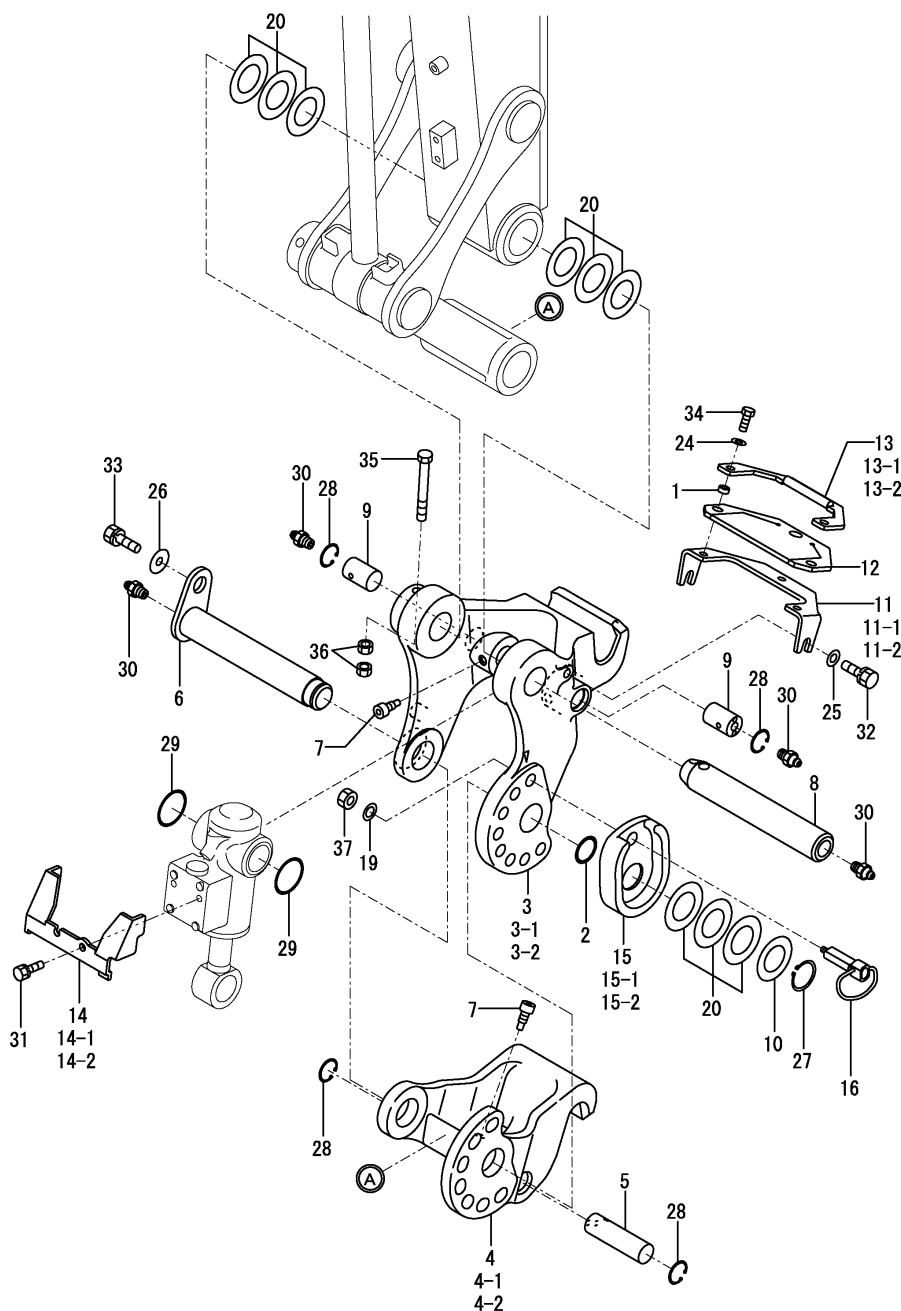
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A23-81090-1	BOOM ASSY	1							
1-1	1	172A23-81090-3	BOOM ASSY	1						S	
(A=M34345)											
1-2	1	172A23-81090-Y	BOOM ASSY	1						S	
(A=M45501)											
2	2	172168-72400	BUSH, 45-55-40	2							
4	2	172168-81410	SEAL, DUST 45X55X4	4							
5	1	172183-81170	CLIP, TREE	5							
5-1	1	172176-68210	CLIP, TREE D25XL15	5						N	
(A=M31299)											
5-2	1	172176-68210	CLIP, TREE D25XL15	5						Z	
(A=M45063)											
6	1	172456-81450	PIPE ASSY, PROTECT	1							
6-1	1	172456-81451	PIPE ASSY	1						N	
(A=M46230)											
7	1	172164-81670	SPACER	2							
8	1	172456-81710	PIN ASSY, 40X134	2							
9	1	172456-81740	PIN ASSY, 40X167.5	1							
10	1	172458-81751-1	CLAMP ASSY, PIPE	1							
10-1	1	172458-81751-2	CLAMP ASSY, PIPE	1						S	
(A=M34345)											
10-2	1	172458-81751-Y	CLAMP ASSY, PIPE	1						S	
(A=M45501)											
11	1	172165-82580	SHIM, 40X75X0.5	3							
12	1	172165-82590	SHIM, 40X75X1.2	3							
13	1	172165-82600	SHIM, 40X75X1.6	3							
14	1	172146-82910	SPACER	1							
15	1	172444-82990	WASHER, 13X50X3.2	1							
16	1	22157-120000	WASHER, 12	2							
17	1	24761-050000	NIPPLE, GREASE C	2							
18	1	26013-120252	BOLT, M12X 25	4							
19	1	26014-080162	BOLT, M8X 16	2							



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172010-01640	SPACER	1							
2	1	172183-81160	CLIP, TREE	4							Z
(A=MZZZZZ)											
3	1	172171-81270	O-RING, 61X6.0	2							
4	1	172956-81500-1	ARM ASSY	1							
4-1	1	172956-81501-1	ARM ASSY, 950	1							N
(A=M30757)											
4-2	1	172956-81490-1	ARM ASSY, 950	1							N
(A=M32722)											
4-3	1	172956-81490-3	ARM ASSY, 950	1							S
(A=M34345)											
4-4	1	172956-81490-Y	ARM ASSY, 950	1							S
(A=M45501)											
5	2	172448-72650	SEAL, DUST	2							
6	2	172448-81610	SEAL, DUST 35X45X4	4							
7	2	172456-81650	BUSHING 40X50X45	2							
8	2	172141-82270	BUSH 35 45	4							
9	1	172164-81670	SPACER	1							
10	1	172456-81770	PIN 40X116 ASSY	1							
11	1	172456-81810	PIN 35X116 ASSY	1							
12	1	172165-82580	SHIM	1							
13	1	172165-82590	SHIM	1							
14	1	172165-82600	SHIM	1							
15	1	172141-84601	SHIM	1							
19	1	22157-100000	WASHER, 10	1							
20	1	22157-120000	WASHER, 12	1							
21	1	24761-040000	NIPPLE, GREASE B	1							
22	1	26013-100252	BOLT, M10X 25	1							
23	1	26013-120252	BOLT, M12X 25	1							

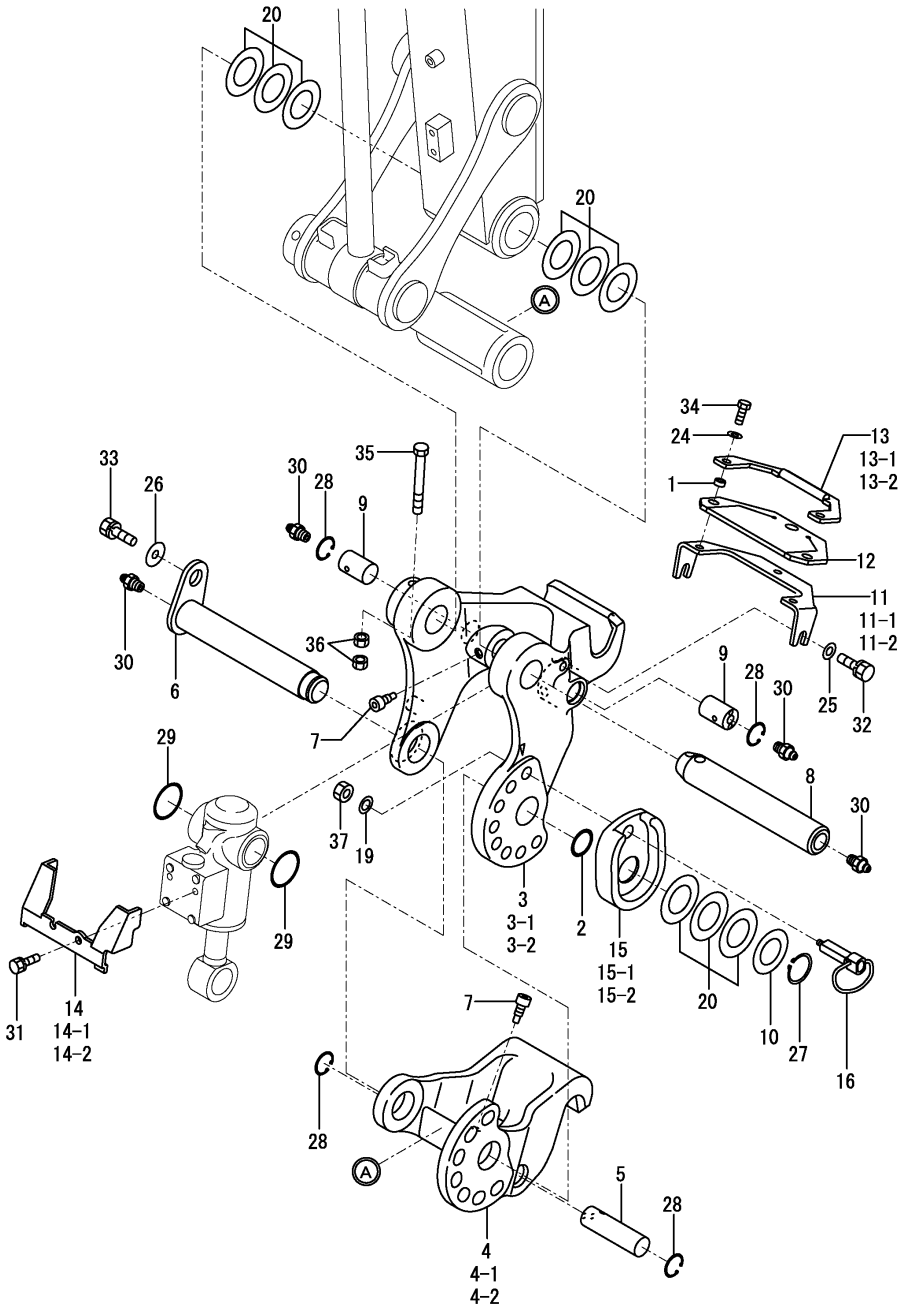


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172171-81500	COLLAR, 35X48.6X22	2							
2	1	172456-82701-1	ARM, BUCKET	1							
2-1	1	172456-82701-3	ARM, BUCKET	1							S
2-2	(A=M34345)										
	1	172456-82701-Y	ARM, BUCKET	1							S
	(A=M45501)										
	3	1	172456-82710-1	ARM, BUCKET	1						
3-1	1	172456-82710-2	ARM, BUCKET	1							S
	(A=M34345)										
	3-2	1	172456-82710-Y	ARM, BUCKET	1						S
	(A=M45501)										
	4	1	172456-82831	PIN 35X160 ASSY	2						
5	1	172141-84403-1	LINK ASSY, BUCKET	1							
5-1	1	172141-84403-3	BACKETLINK ASSY (2J)	1							S
	(A=M34345)										
	5-2	1	172141-84403-Y	BACKETLINK ASSY	1						S
	(A=M45501)										
	6	2	172141-72561	BUSH (35-45-30	2						
7	2	172448-81610	SEAL, DUST 35X45X4	6							
8	2	172141-82270	BUSH 35 45	2							
10	1	172141-84601	SHIM	2							
11	1	24761-020000	NIPPLE, GREASE PT1/8	2							
12	1	24761-020000	NIPPLE, GREASE PT1/8	2							
13	1	26116-100652	BOLT, M10X 65 PLATED	2							
14	1	26716-100002	NUT, M10	4							

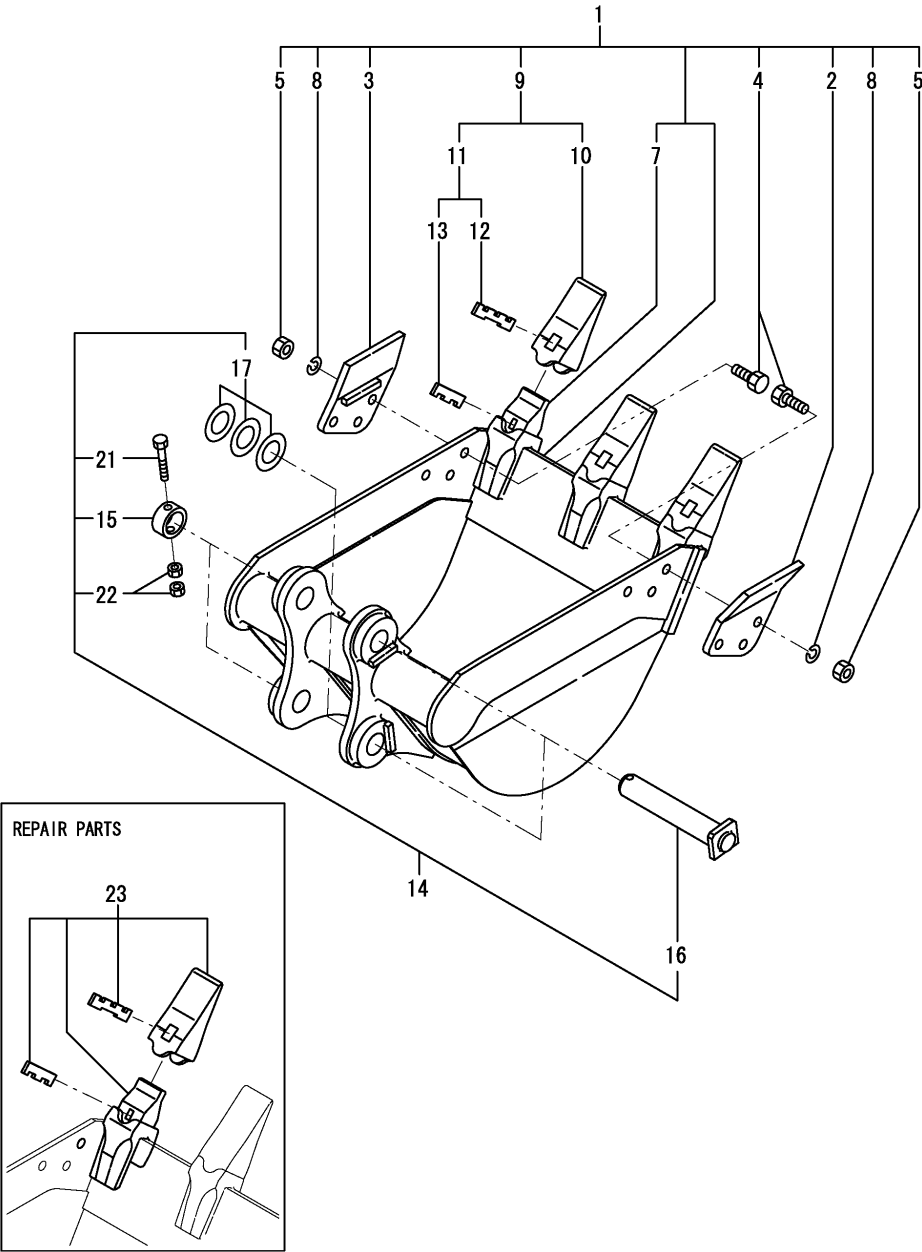


No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	172958-17120	COLLAR, 9X4	3							
1-1	1	172958-17121 (A=M35124)	COLLAR, 9X4	3						N	
2	1	172124-46200	O-RING, 27.6X5.7	1							
3	1	172956-83102-1	BRACKET, A	1							
3-1	1	172956-83102-3 (A=M34345)	BRACKET, A	1						S	
3-2	1	172956-83102-Y (A=M45501)	BRACKET, A	1						S	
4	1	172956-83112-1	BRACKET, B	1							
4-1	1	172956-83112-3 (A=M34345)	BRACKET, B	1						S	
4-2	1	172956-83112-Y (A=M45501)	BRACKET, B	1						S	
5	1	172958-83130	PIN, 25X86	1							
5-1	1	172958-83131 (A=M35500)	PIN, 25X86	1						N	
6	1	172956-83140	PIN ASSY, 35X213.5	1							
6-1	1	172956-83141 (A=MEF198)	PIN ASSY, 35X213.5	1						N	
7	1	172958-83140	BOLT, HEX SOCKET	3							
8	1	172956-83160	PIN, 35X218	1							
8-1	1	172956-83161 (A=MEF198)	PIN, 35X218	1						N	
9	1	172956-83200	PIN, 25-38	2							
9-1	1	172956-83201 (A=MEF198)	PIN, 25X38	2						N	
10	1	172956-83221	COLLAR, 32.5X55X1.2	1							
11	1	172956-83252-1	GUARD ASSY	1							
11-1	1	172956-83252-3 (A=M34345)	GUARD ASSY	1						S	
11-2	1	172956-83252-Y (A=M45501)	GUARD ASSY	1						S	
12	1	172956-83281	PLATE, RUBBER	1							
12-1	1	172956-83282 (A=M/#35241)	PLATE, RUBBER	1						N	
13	1	172956-83291-1	PLATE ASSY	1							
13-1	1	172956-83291-3 (A=M34345)	PLATE ASSY	1						S	
13-2	1	172956-83291-Y (A=M45501)	PLATE ASSY	1						S	
14	1	172958-83292-1	COVER, HITCH	1							
14-1	1	172958-83292-2 (A=M34345)	COVER, HITCH	1						S	
14-2	1	172958-83292-N (A=M45501)	COVER, HITCH	1						S	
15	1	172956-83350-1	PLATE, LOCK	1							
15-1	1	172956-83350-3 (A=M34345)	PLATE, LOCK	1						S	
15-2	1	172956-83350-Y (A=M45501)	PLATE, LOCK	1						S	

N:Old $\xrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
 ++ CONTINUE ++
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No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
16	1	172956-83361	PIN ASSY, LOCK	1							
16-1	1	172956-83362	PIN ASSY, LOCK	1							N
(A=M/#35241)											
19	1	172956-83381	WASHER, 6.4X14X1.5	1							
20	1	172141-84601	SHIM ASSY, 35	3							
24	1	22137-080000	WASHER, 8	3							
25	1	22137-100000	WASHER, 10	2							
26	1	22157-100000	WASHER, 10	1							
27	1	22242-000320	RING, 32	1							
28	1	22252-000250	RING, 25	4							
29	1	24311-000400	O-RING, 1AP40.0	2							
30	1	24761-020000	NIPPLE, GREASE PT1/8	4							
31	1	26013-080162	BOLT, M8X 16	2							
32	1	26013-100202	BOLT, M10X 20	2							
33	1	26013-100252	BOLT, M10X 25	1							
34	1	26116-080202	BOLT, M8X 20 PLATED	3							
34-1	1	26116-080252	BOLT, M8X 25 PLATED	3							N
(A=M35241)											
35	1	26116-100802	BOLT, M10X 80 PLATED	1							
36	1	26716-100002	NUT, M10	2							
37	1	26756-060002	NUT, LOCK M6	1							



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

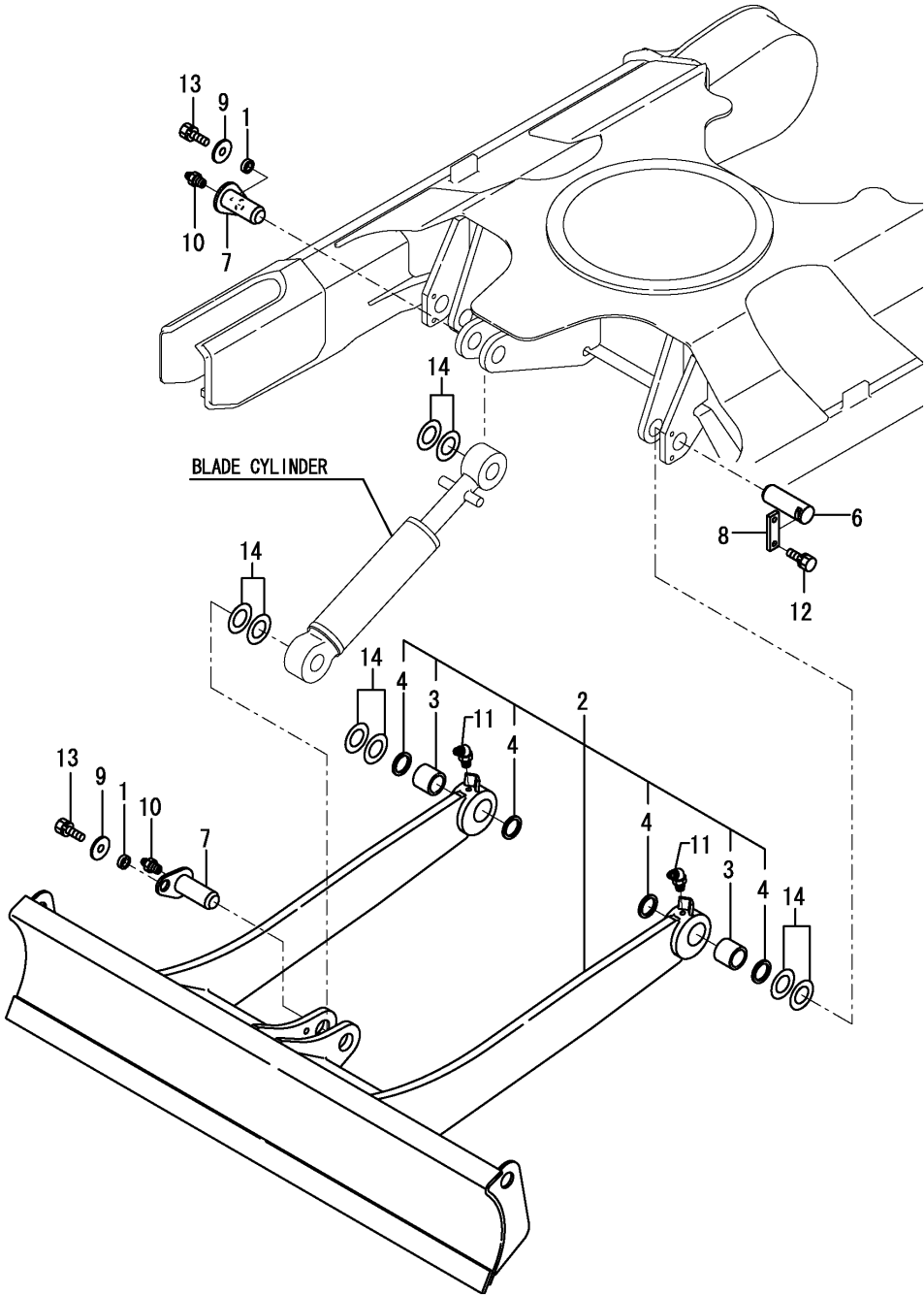
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172456-82501-1	BUCKET ASSY, 490S	1							
1-1	1	172456-82501-3	BUCKET ASSY, 490S	1						S	
(A=M/#32643)											
1-2	1	172456-82502-2	BUCKET ASSY, 490S	1						N	
(A=M45001)											
2	2	172458-82240-1	CUTTER, SIDE	1							
2-1	2	172458-82240-4	CUTTER, SIDE	1						S	
(A=M/#32643)											
3	2	172458-82260-1	CUTTER, SIDE	1							
3-1	2	172458-82260-4	CUTTER, SIDE	1						S	
(A=M/#32643)											
4	2	172458-82280	BOLT M14X 40	6							
5	2	172458-82290	NUT	6							
7	3	172448-82530-1	ADAPTER	3							
7-1	3	172448-82530-2	ADAPTER	3						S	
(A=M/#32643)											
8	2	22217-140000	WASHER, SPRING 14	6							
9	2	172448-82950	TOOTH KIT, POINT	3							
9-1	2	172448-82950-3	TOOTH KIT, POINT	3						S	
(A=M/#32643)											
10	3	172448-82570-1	TOOTH, POINT	3							
10-1	3	172448-82570-3	TOOTH, POINT	3						S	
(A=M/#32643)											
11	3	172448-82960	PIN ASSY, LOCK	3							
12	4	172448-82580	PIN, LOCK	3							
13	4	172448-82590	RUBBER, PIN	3							
14	1	172956-81600	PIN KIT, BUCKET (QUICK)	2							
15	2	172171-81500	COLLAR, 35X48.6X22	2							
16	2	172956-83120	PIN 35-195 ASSY	2							
17	2	172141-84601	SHIM	2							
21	2	26116-100652	BOLT, M10X 65 PLATED	2							
22	1	26716-100002	NUT, M10	4							
23	1	772448-82530-1	TOOTH ASSY	3							1
23-1	1	772448-82530-3	TOOTH ASSY	3						S	1
(A=M/#32643)											

Remarks
(1)REPAIR KIT.

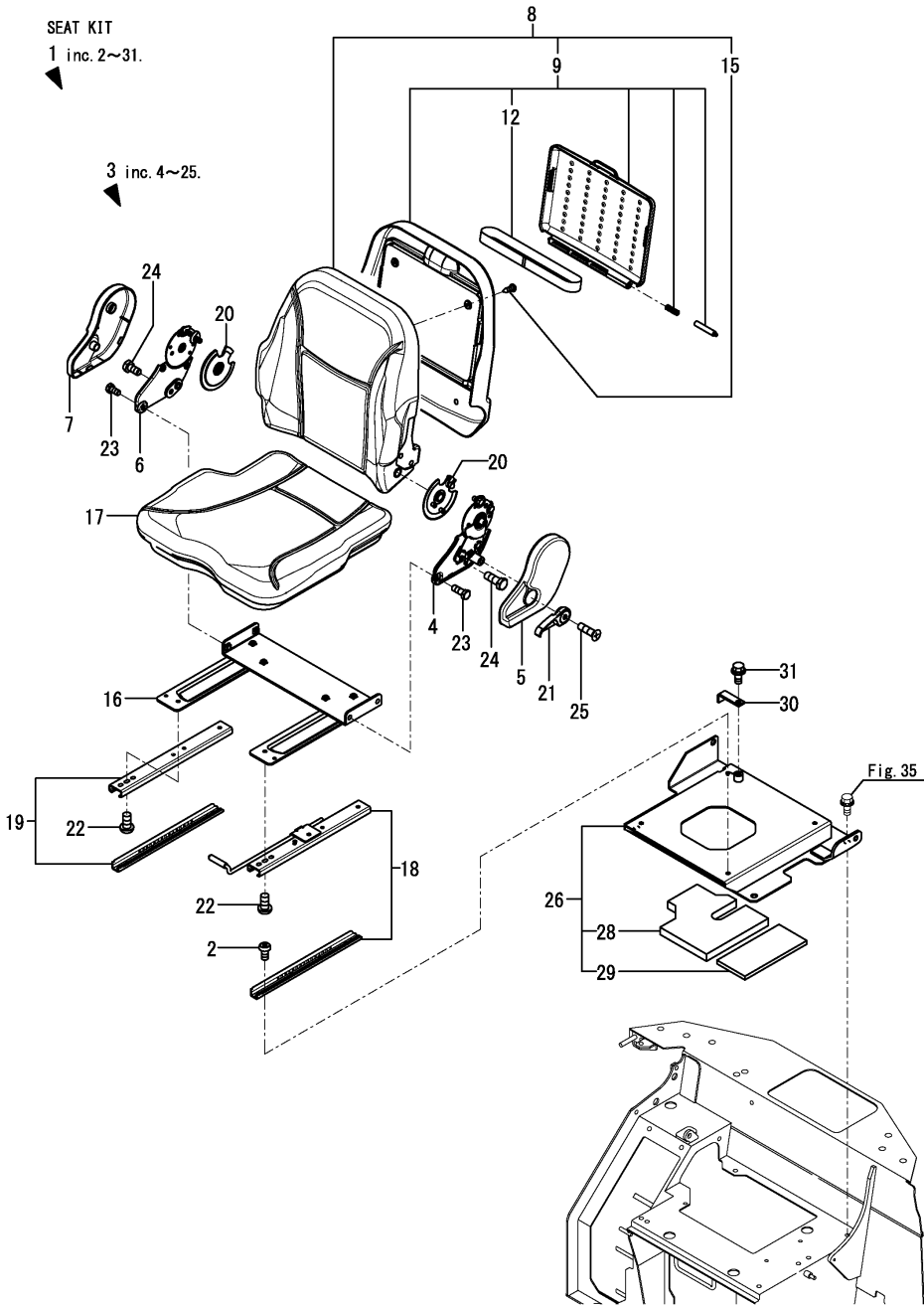
(A)=VIO20-3(KR)
(B)=
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172164-81670	SPACER	2							
2	1	172A23-94090-1	BLADE ASSY	1							
2-1	1	172A23-94090-2	BLADE ASSY	1							S
(A=M/#32643)											
2-2	1	172A23-94091-2	BLADE ASSY	1							N
(A=M34222)											
2-3	1	172A23-94092	BLADE ASSY	1							N
(A=M45001)											
3	2	172168-72240	BUSH 38X50X40	2							
4	2	172168-81270	SEAL, DUST	4							
6	1	172422-94210	PIN 38X 114	2							
7	1	172141-94271	PIN 38-94	2							
8	1	172124-94310-2	PLATE, LOCK	2							
8-1	1	172124-94310-5	PLATE, LOCK	2							S
(A=M/#32643)											
9	1	22157-120000	WASHER, 12	2							
10	1	24761-020000	NIPPLE, GREASE PT1/8	2							
11	1	24761-040000	NIPPLE, GREASE B	2							
12	1	26013-100252	BOLT, M10X 25	4							
13	1	26013-120302	BOLT, M12X 30	2							
14	1	933171-29751	SHIM SET	4							

Fig.89. SEAT KIT(OPTIONAL)(REPAIR PARTS)



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	172A36-08800	SEAT KIT,EX WOOCHANG	1							
2	2	172455-61710	BOLT M 8X 16	4							
3	2	172A64-64070	SEAT ASSY, RECLINING	1							
4	3	172A64-64040	HINGE ASSY	1							
5	3	172A64-64060	COVER	1							
6	3	172A64-64080	HINGE ASSY	1							
7	3	172A64-64090	COVER	1							
8	3	172B02-64210	SEAT ASSY, BACK	1							
9	4	172B02-64270	BOX ASSY,MANUAL	1							
12	5	172A89-64950	BAND	1							
15	4	22859-500200	SCREW, 5.0 X 20	4							
16	3	172B02-64230	BRACKET ASSY, SEAT	1							
17	3	172A89-64780	SEAT, CUSHION	1							
18	3	172A89-64800	RAIL ASSY, TL	1							
19	3	172A89-64810	RAIL ASSY, TR	1							
20	3	172A89-64870	COVER	2							
21	3	172A89-64880	LEVER	1							
22	3	26106-080252	BOLT, M8X 25 PLATED	4							
23	3	26106-100162	BOLT, M10X 16 PLATED	6							
24	3	26106-100252	BOLT, M10X 25 PLATED	2							
25	3	26559-050202	SCREW, M5X20	1							
26	2	172A36-64090	PLATE ASSY, SEAT	1							
28	3	172A23-64882	SPONGE	1							
29	3	172A23-64930	INSURATOR,SEAT	1							
30	2	172A36-64450	PLATE, LOCK	1							
31	2	26014-100202	BOLT, M10X 20	1							

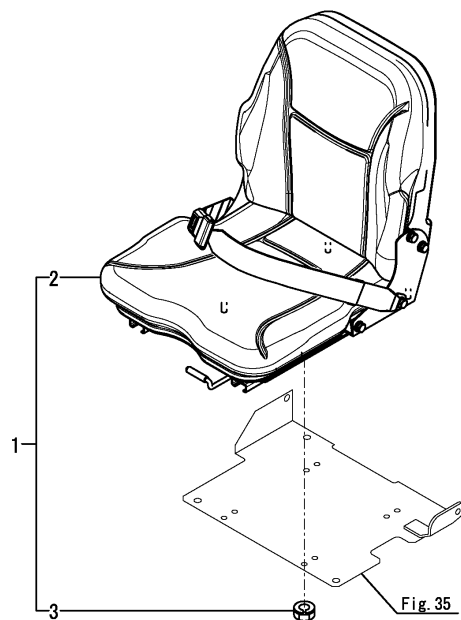
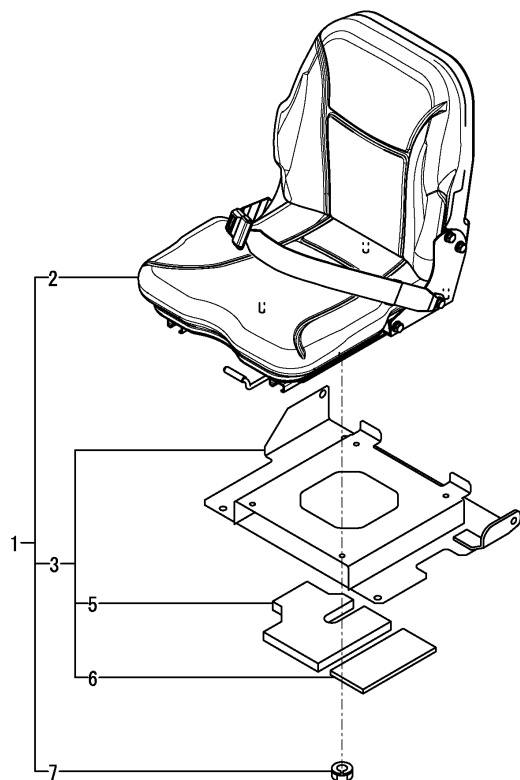


Fig. 35

No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	172A23-08610 (A=2017.11.)	SEAT KIT,WOO SB SP	1							W
2	2	172A23-64100	SEAT ASSY,SEAT BELT	1							
3	2	26051-080002	NUT, M8	4							



No.	Lev.	Parts No.	Description	Q'ty						I R
				(A)	(B)	(C)	(D)	(E)	(F)	
1	1	172A36-08600	SEAT KIT,WOO SB SP	1						W
		(A="2017.11.)								
2	2	172A23-64100	SEAT ASSY,SEAT BELT	1						
3	2	172A36-64852	PLATE ASSY,SEAT	1						
5	3	172A23-64882	PAD, SEAT	1						
6	3	172A23-64930	HEAT INSULATOR, SEAT	1						
7	2	26051-080002	NUT, M8	4						

Parts No. Index

Parts No.	Fig. No.	Ref. No.
101720-55750	8	28
102103-55520	8	23
104200-11920	7	16
104200-55321	8	19
104200-55330	8	20
104200-55341	8	21
104200-55750	8	29
106990-44660	7	28
110250-55610	8	24
119247-77100	11	3
119255-44660	6	17
119650-77910	11	5
119802-77200	11	4
119808-12540	3	12
119813-44510	6	14
121250-49121	6	3
121256-44600	6	16
121257-55720	8	25
121257-55731	8	26
124064-55510	8	22
124450-44550	6	15
124766-59050	6	18
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22877-400121	12	38
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		40
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23001-041000	6	20
23001-060000	59	21
		22 -1
23001-070000	59	22
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23393-020000	64	11
23393-040000	62	44
	63	5
23418-060000	8	31
23871-005000	45	22
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	79	8
23871-040000	66	7
24101-060024	47	81
24101-060044	47	82
24101-062054	16	8
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24101-062074	17	10
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24311-000210	22	6
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	24	8
	25	35
	20	25
24311-000340	75	29
24311-000400	49	13
24311-240100	8	32
24315-000060	40	93
		123
24315-000070	78	14
24315-000080	40	127
	54	14
	78	15
		41
		60
24315-000090	50	31
24315-000100	50	32
	78	40
24315-000110	40	128
	50	27
	51	11
		24
	52	11
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		21
	60	4
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	61	4
		6
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	64	4
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		4
		19
	68	3
		5
	69	5
		7
		8
		9
		10
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	17	13
		33
	40	108
		126
	54	29
		4
	59	6
		8 -2
		11
	60	4 -2
		8
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		14
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24315-000180	59	8
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24315-000300	17	17
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24315-000750	79	14
24315-350220	81	18
24321-000400	59	12
24321-000450	40	36
		115
24321-000700	49	14
24321-000900	40	94
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		11
		12 -1
26013-060162	8	37 -1
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		13
26013-060202	8	37
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26013-060302		21 -1
	21	45
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		24
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26013-120602	66	19 -1
		20 -1
26014-060202	12	41
26014-060402	11	11 -1
26014-080162	72	19
26014-080202	14	4
	58	23 -1
26014-080252	58	22 -1
26014-100202	37	31
		32
		33
	85	24 -1
	87	30
	89	31
26014-100252	59	13 -1
26014-120552	66	18 -2
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26076-100352	79	9
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26106-080252	86	20
	89	22
26106-100122	28	3
26106-100162	29	21
		22 -1
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26116-100162	41	35
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26116-100202	23	16
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29420-300000	54	28 -1
	60	4 -1
41851-000110	7	-1
	61	4 -1
	6	-1
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	62	11 -1
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	4	-1
	10	-1
	12	-1
	67	4 -1
	4	-2
	68	3 -1
	5	-1
	69	5 -1
	7	-1
	8	-1
	9	-1
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	59	11 -1
41851-000140	60	8 -1
	61	9 -1
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	14	-1
	15	-1
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0CB10-M71401EN

Precautions

1. Some of the illustrations in this parts catalog are simplified.
2. Depending on the specifications of your product, the actual product and parts catalog may not match.
3. Please use genuine parts when repairing the product.
4. When ordering spare parts, please confirm the specifications (model name, serial number, part number, quantity, etc.) and confirm with your distributors or dealers.
5. Please refer to the user manual or service manual for information on how to replace parts, technical information, and other related details.
6. If you are using a booklet or PDF parts catalog, you must verify the latest information via the online parts catalog.

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

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- 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.
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Directions for the Parts Catalog.

- 1.This Parts Catalog shows both standard and optional parts.
- 2.Parts may change without prior notice.
- 3.The following is an example of the Parts Catalog format.

OCF10-G21601

29. FUEL INJECTION PUMP(W/BOOST)

1

REF.

2

LEV.

PARTS NO.

DESCRIPTION

(A)=4JH-DT
(B)=4JH-DTZ
(C)=4JH-DTZP

(D)=4JH-DTZA
(E)=4JH-DTZY
(F)=

Q'TY

(A) (B) (C) (D) (E) (F)

3

I

5

R

1	1	729595-51390	FUEL INJECTION PUMP	1	1	1	1	1		1
1-1	1	729595-51391	FUEL INJECTION PUMP	1	1	1	1	1		N 1
		(A=E00185)	(B=E00200)							
3	2	26022-060162	SCREW M 6X 16	9	9	9	9	9		
3-1	2	26022-060162	SCREW M 6X 16	4	4	4	4	4		K
		(A=E00156)	(B=E00156)	(C=E00156)	(D=E00156)	(E=E00156)				
4	2	129470-51040	CAMSHAFT	1	1	1	1	1		
5	2	122710-51050	BEARING, ROLLER	2	2	2	2	2		
6	2	129470-51060	RETAINER	1	1	1	1	1		

Remarks

(1) BOOST COMPENSATOR TYPE. OPTIONAL PART, TO E00155,(4JH-DT, 4JH-DTZ

① Ref. No.

The Ref. No. listed may not be in accordance with the illustration Ref. No.

(Ex.) Illustration No.

List Ref No.

1

1

(Before change)

1-1

(After change)

For interchangeable symbols N, R and K, illustrations for new parts may be abbreviated.

② Lev. (Level)

Level indication

The numbers below indicate the level of relativity towards the main part.

1 ---- Main parts (Assembly parts)

2 ---- Sub component included in " 1 ".

3 ---- Sub component included in " 2 ".

Note) Parts that are not for sale are partially illustrated but not listed.

③ Interchangeability Symbol

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

Symbol	Interchangeability	Contents note
N	Old $\xrightarrow{\text{Yes}}$ New No $\xrightarrow{\text{No}}$	New Part is interchangeable for Old Part but Old Part is not interchangeable for New Part.
Q	Old $\xrightarrow{\text{No}}$ New Yes $\xrightarrow{\text{Yes}}$	New Part is not interchangeable for Old Part but Old Part is interchangeable for New Part.
R	Old $\xrightarrow{\text{Yes}}$ New Yes $\xrightarrow{\text{Yes}}$	New/ Old Parts are both interchangeable.
S	Old $\xrightarrow{\text{No}}$ New No $\xrightarrow{\text{No}}$	New/ Old Parts are both not interchangeable.
W		Part newly added.
Z		Part discontinued.
F		Not interchangeable by a single part but interchangeable together with related parts.
K		Changes only for used parts quantities.

④ Effective Machine No.

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

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

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

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

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

⑤ Remarks

Figures or alphabets (symbols) are entered in the remarks column.

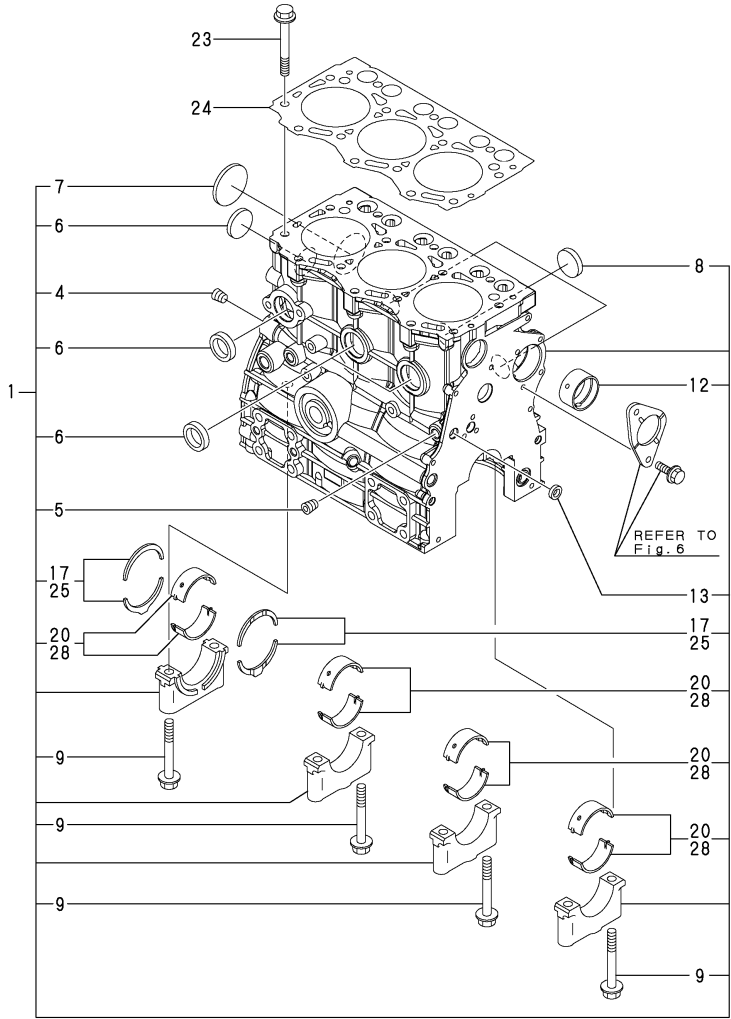
The comments (remarks) on parts that are indicated at the bottom of the illustration are the same symbols as those stated above.

Contents

0CB10-M71401

Fig. No.	Fig. Name	Fig. No.	Fig. Name
ENGINE			
1.	CYLINDER BLOCK		
2.	GEAR HOUSING		
3.	FLYWHEEL HOUSING & OIL SUMP		
4.	CYLINDER HEAD & BONNET		
5.	EXHAUST MANIFOLD & SILENCER		
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.	FUEL PIPE		
14.	STARTER MOTOR(TO E108864)		
18.	(14A)STARTER MOTOR(FROM E136361)		
15.	GENERATOR(TO 2023.02)		
17.	(15A)GENERATOR(FROM 2023.02)		
16.	GASKET SET		

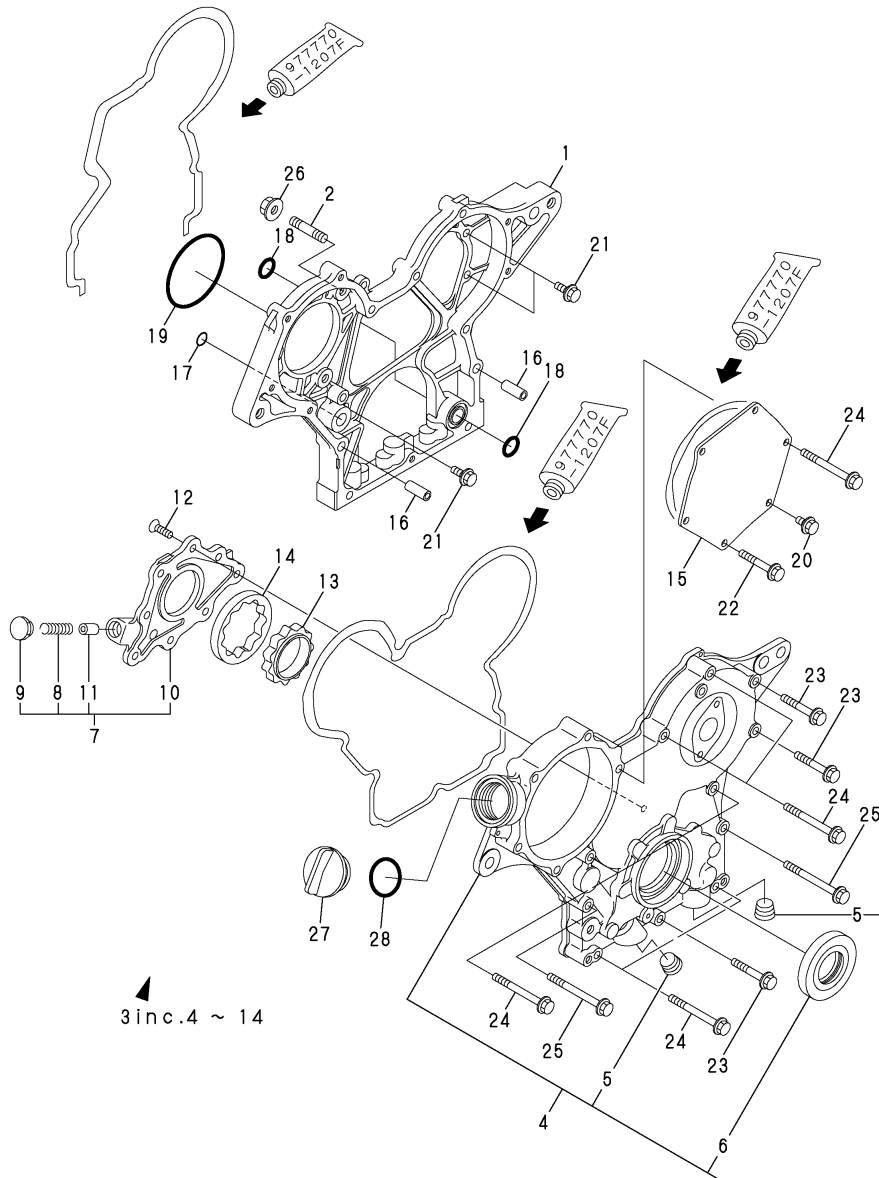
Fig.1. CYLINDER BLOCK



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

(A)=3TNV76-PBV
(B)=
(C)=
(D)=
(E)=
(F)=

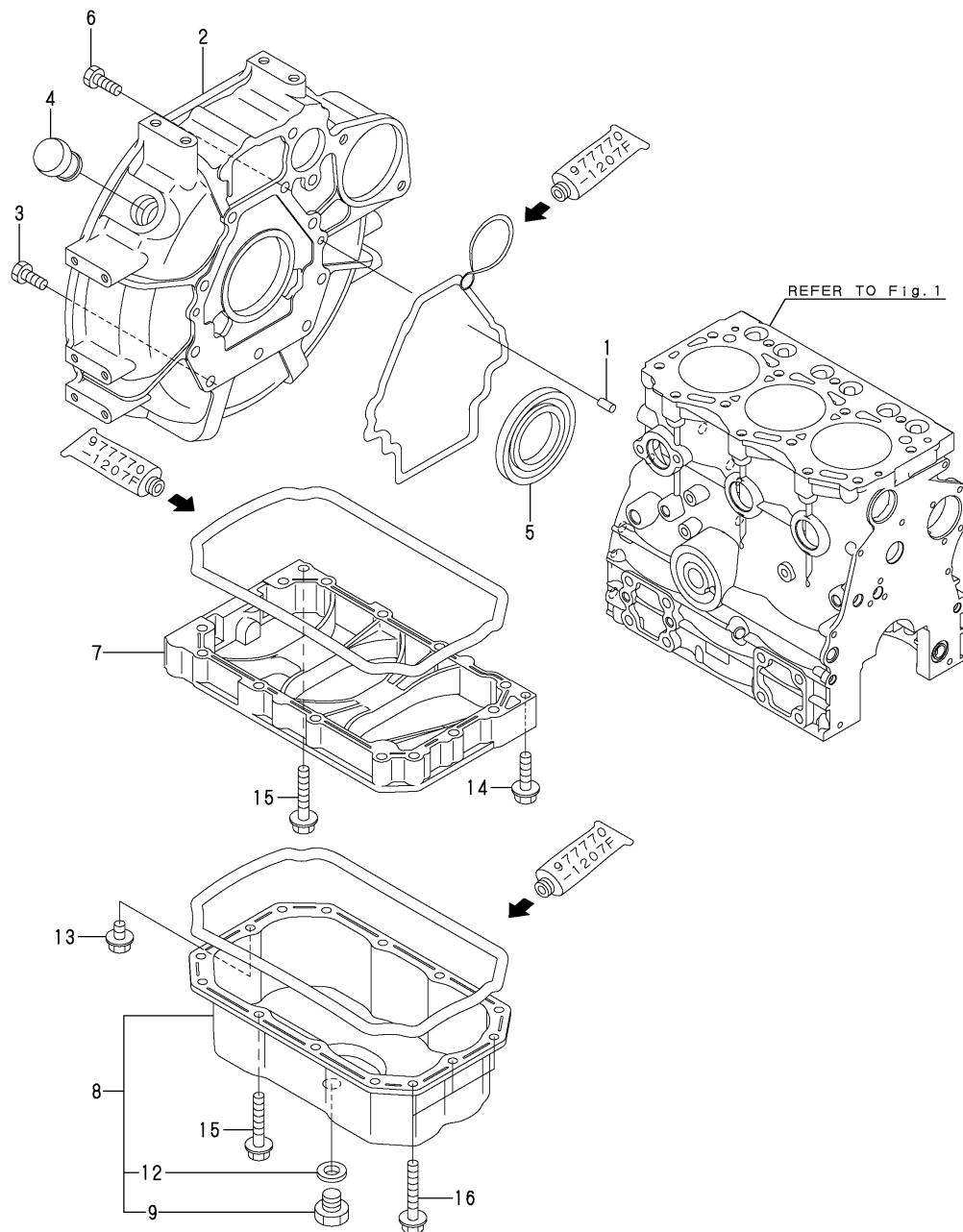
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719717-01560	BLOCK ASSY, CYLINDER	1							
1-1	1	719717-01562	BLOCK ASSY, CYLINDER	1						N	
(A=E/#07139)											
4	3	124160-01910	PLUG, PT1/4	1							
5	3	124060-01050	PLUG, PT1/8	1							
6	3	105311-01090	PLUG, 30	4							
7	3	119623-01250	PLUG, 45	1							
8	3	119285-01990	PLUG, 25	3							
9	3	119620-02020	BOLT, METAL CAP	8							
12	3	119717-02410	BUSH, CAMSHAFT	1							
12-1	3	119717-02411	BUSH, CAMSHAFT	1						N	
(A=E/#24271)											
13	3	27241-120000	PLUG, 12	1							
17	2	119717-02930	METAL ASSY, THRUST	2							2
17-1	2	119810-02931	METAL, THRUST	1						N	2
(A=E/#24271)											
20	2	719717-02900	METAL ASSY, MAIN	4							2
20-1	2	719717-02901	METAL ASSY, MAIN	4						N	2
(A=E/#24271)											
23	1	119810-01200	BOLT, CYLINDER HEAD	14							
24	1	119717-01330	GASKET, HEAD	1							
25	1	119810-02940	METAL ASSY, 0.25 OS	2							1
25-1	1	119810-02941	METAL ASSY, 0.25 OS	2						N	1
(A=E/#24271)											
28	1	719717-02910	BEARING ASSY, MAIN	4							3
28-1	1	719717-02911	METAL ASSY, MAIN .25	4						N	3
(A=E/#24271)											



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119717-01501	CASE, GEAR	1							
2	1	119717-01570	STUD	3							
3	1	119717-01590	COVER ASSY, CASE	1							
4	2	719717-01500	COVER ASSY, CASE	1							W
	(A=E/#06223)										
5	3	23876-030000	PLUG, R03	2							1
6	3	119620-01800	SEAL, OIL HTC456208	1							1
7	2	119717-32100	COVER ASSY, PUMP	1							
8	3	129001-32320	SPRING	1							
9	3	129001-32330	PLUG	1							
10	3	119717-32080	COVER, OIL PUMP	1							
11	3	129900-32130	VALVE, RELIEF	1							
12	2	119802-32130	SCREW, M6X16	8							
13	2	119717-32110	ROTOR, INNER	1							
14	2	119717-32120	ROTOR, OUTER	1							
15	1	119717-01750	COVER, PUMP	1							
16	1	119660-01911	PIPE, KNOCK 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, FUEL PUMP	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							

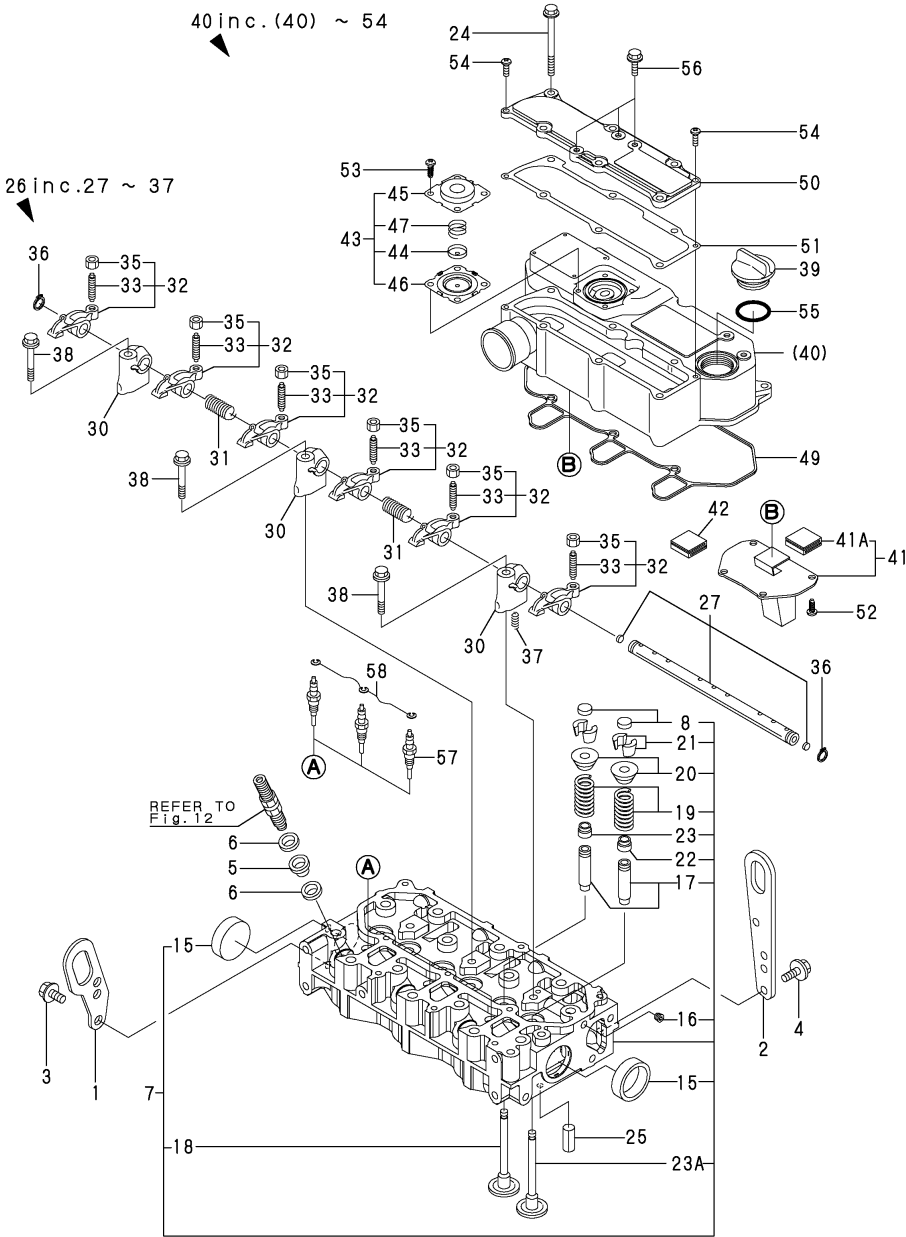
Remarks
(1)Level changed.

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129100-01580	PIN, PARALLEL 8X16	2							
2	1	119717-01601	HOUSING, FLYWHEEL	1							
3	1	121120-01620	BOLT, M10X28	3							
4	1	119620-01750	CAP, WHEEL COVER	1							
5	1	124085-02220	SEAL, METAL HOUSING	1							
6	1	26206-100252	BOLT, M10X 25 PLATED	8							
7	1	119717-01720	SPACER, OIL PAN	1							
8	1	119740-01770	OIL PAN ASSY	1							
9	2	105425-01690	PLUG, DRAIN M16	1							
12	2	22190-160002	WASHER, SEAL 16	1							
13	1	26106-080122	BOLT, M8X 12 PLATED	1							
14	1	26106-080302	BOLT, M8X 30 PLATED	1							
15	1	26106-080452	BOLT, M8X 45 PLATED	11							
16	1	26106-080502	BOLT, M8X 50 PLATED	3							

Fig.4. CYLINDER HEAD & BONNET

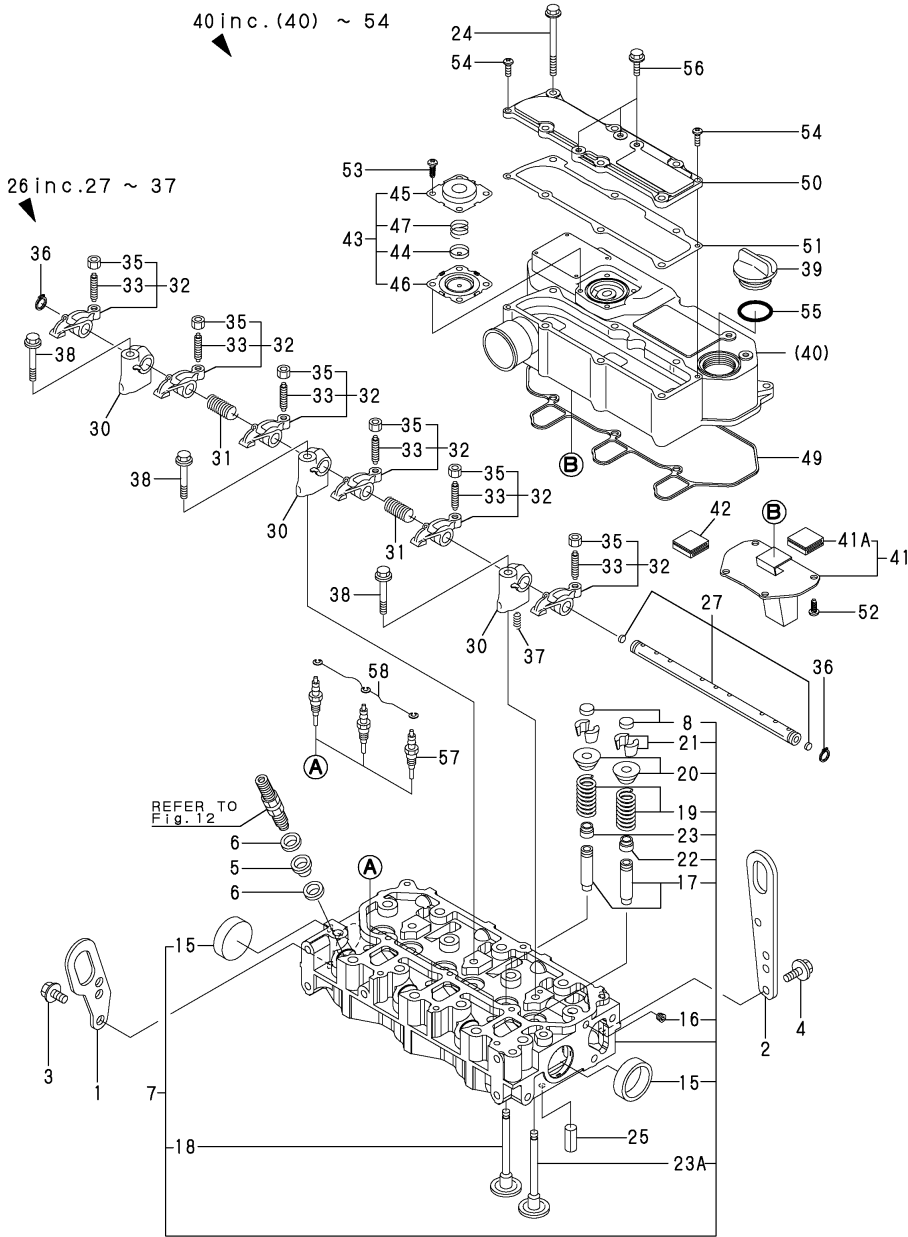


(A)=3TNV76-PBV
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119260-07900	LIFTER, ENGINE	1							
1-1	1	119626-07900	LIFTER, ENGINE	1							N
(A=E/#09816)											
2	1	119940-07900	LIFTER, ENGINE	1							
3	1	26106-080142	BOLT, M8X 14 PLATED	2							
4	1	26106-080162	BOLT, M8X 16 PLATED	2							
5	1	129901-11450	PROTECTOR, NOZZLE	3							
6	1	119600-11460	GASKET, NOZZLE	6							
7	1	119717-11740	HEAD ASSY, CYLINDER	1							
8	2	105010-11490	CAP, VALVE	6							
15	3	119285-11990	PLUG, 35	2							
16	3	23876-005000	PLUG, R005	1							
17	3	119717-11800	GUIDE, VALVE	6							1
18	2	119717-11110	VALVE, EXHAUST	3							
19	2	119717-11131	SPRING, VALVE	6							
20	2	129508-11180	RETAINER, SPRING	6							
21	2	119717-11190	COTTER, VALVE	12							
22	2	119717-11340	SEAL, VALVE STEM	3							
23	2	119717-11350	SEAL, VALVE STEM	3							
23A	2	119717-11100	VALVE, INTAKE	3							
24	1	26106-060752	BOLT, M6X 75 PLATED	6							
25	1	22351-060012	PIN, SPRING 6.0X12	2							
26	1	119717-11200	SUPPORT ASSY, ROCKER	1							
27	2	119717-11240	SHAFT ASSY, ARM	1							
30	2	119717-11260	SUPPORT, ROCKER ARM	3							
31	2	119620-11280	SPRING, SHAFT	2							
32	2	119717-11650	ARM ASSY, ROCKER INT	6							
33	3	129150-11230	SCREW, VALVE ADJUST	6							
35	3	129150-11750	NUT, M8XP1.0	6							
36	2	22242-000120	RING, 12	2							
37	2	26979-050162	SCREW, M5X16	1							
38	1	26106-080402	BOLT, M8X 40 PLATED	3							
39	1	124160-01751	CAP, FILLER	1							
40	1	119717-11381	BONNET ASSY, HEAD	1							
41	2	119717-03031	PLATE, BAFFLE	1							
41A	3	119717-03070	BAFFLE, BREATHER	1							
42	2	119717-03070	BAFFLE, BREATHER	2							
43	2	119802-03100	DIAPHRAGM ASSY	1							
44	3	119802-03110	PLATE, DIAPHRAGM	1							
45	3	119802-03121	COVER, DIAPHRAGM	1							
46	3	119802-03131	DIAPHRAGM, BREATHER	1							
47	3	119802-03141	SPRING, DIAPHRAGM	1							
49	2	119718-11310	GASKET, BONNET	1							
50	2	119717-11320	COVER, BONNET	1							
51	2	119717-11331	GASKET, BONNET COVER	1							
52	2	22857-500100	SCREW, 5X10	4							
53	2	22857-500100	SCREW, 5X10	4							
54	2	22857-500160	SCREW, 5X16	2							
55	1	24311-000320	O-RING, 1AP32.0	1							
56	1	26106-060202	BOLT, M6X 20 PLATED	3							
57	1	119717-77800	PLUG, GLOW	3							

Fig.4. CYLINDER HEAD & BONNET

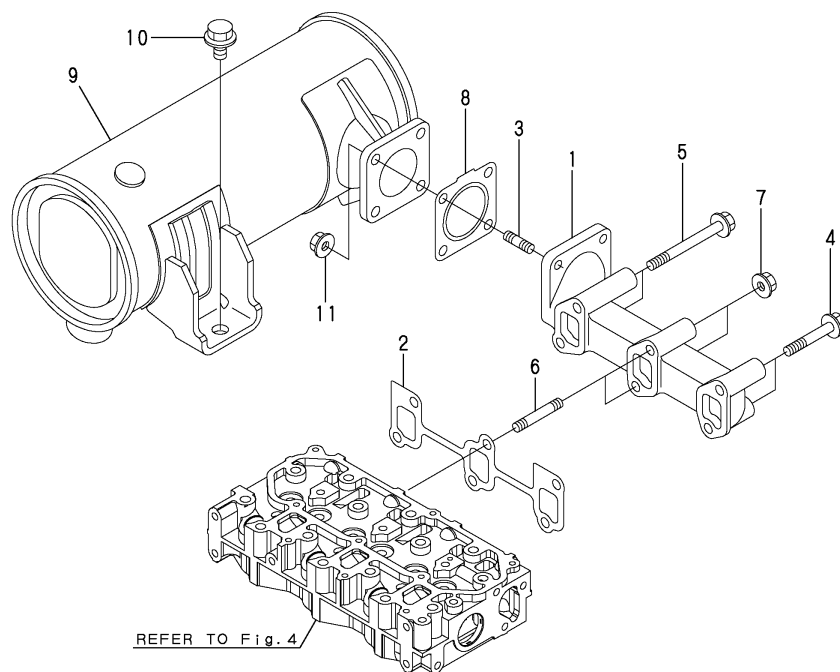


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(B)=
(C)=

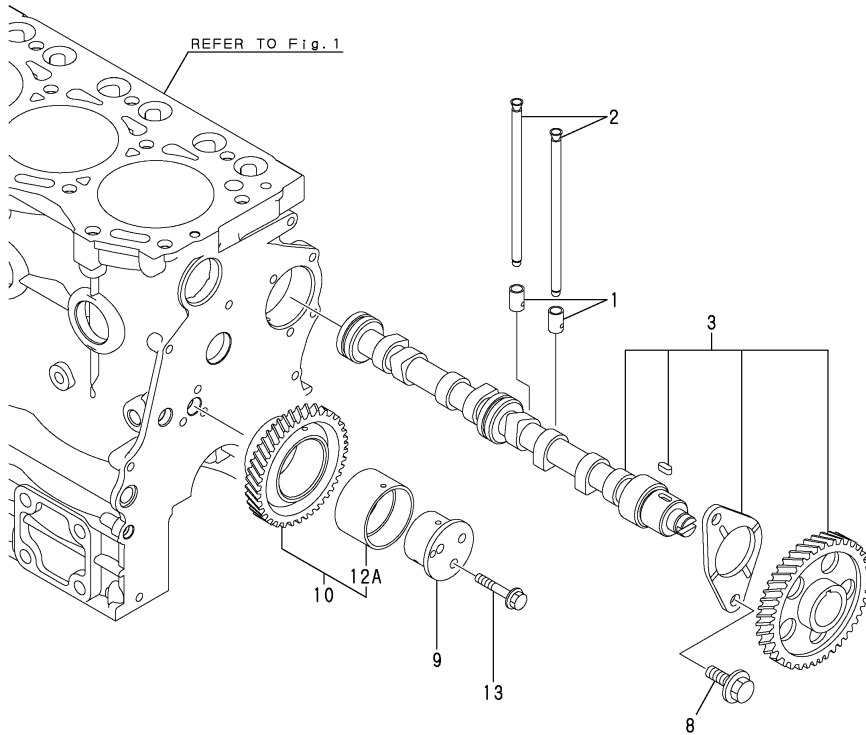
(D)=
(E)=
(F)=

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
57-1	1	119717-77801 (A=YDSTN-120)	PLUG, GLOW	3							N
57-2	1	119717-77810 (A=*2023.06)	PLUG, GLOW 12V	3							N
58	1	119717-77820	CONNECTOR, GLOW PLUG	1							

Remarks
(1)Repair parts.



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119740-13100	MANIFOLD, EXHAUST	1							
2	1	119717-13110	GASKET, MANIFOLD	1							
3	1	119131-18320	STUD, M8X22	4							
4	1	119802-13620	BOLT, M8X50	2							
5	1	123900-13620	BOLT, M8X71	2							
6	1	119717-13600	STUD, M8X50	2							
7	1	26306-080002	NUT, M8	2							
8	1	119515-13200	GASKET, SILENCER	1							
9	1	119740-13510	SILENCER	1							
10	1	26106-100182	BOLT, M10X 18 PLATED	1							
11	1	26306-080002	NUT, M8	4							

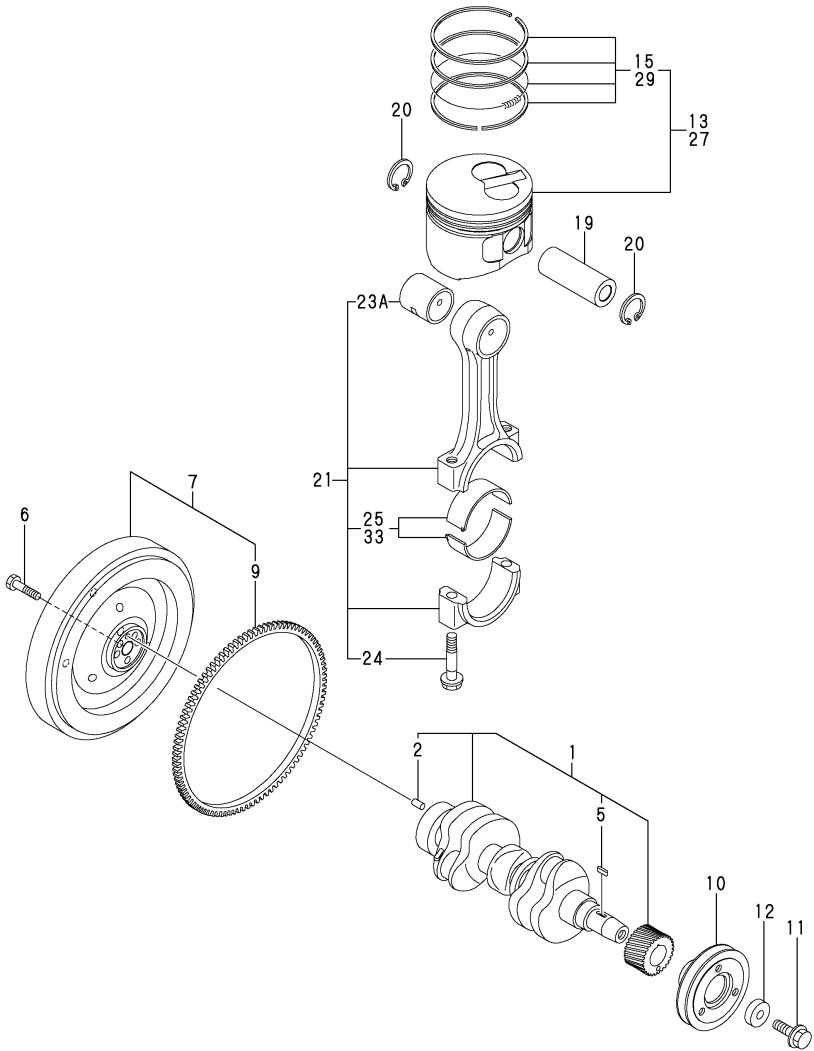


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119620-14200	TAPPET	6							
2	1	119717-14400	ROD, PUSH	6							
3	1	119717-14580	CAMSHAFT ASSY	1							
3-1	1	119717-14581	CAMSHAFT ASSY	1							R
		(A=E/#23116)									
8	1	26106-060122	BOLT, M6X 12 PLATED	2							
9	1	119717-25050	SHAFT, IDLE GEAR	1							
10	1	119717-25100	GEAR ASSY, IDLE	1							
10-1	1	119717-25101	GEAR ASSY, IDLE	1							N
		(A=E/#24271)									
12A	2	119717-25911	BUSH, IDLE GEAR	1							W 1
		(A=E/#24271)									
13	1	26106-060352	BOLT, M6X 35 PLATED	3							

Remarks
(1)Repair parts.

N:Old $\begin{matrix} \text{Yes} \\ \text{No} \end{matrix}$ New, Q:Old $\begin{matrix} \text{No} \\ \text{Yes} \end{matrix}$ New, R:Old $\begin{matrix} \text{Yes} \\ \text{Yes} \end{matrix}$ New, S:Old $\begin{matrix} \text{No} \\ \text{No} \end{matrix}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.7. CRANKSHAFT & PISTON



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

0CB10-M71401 Fig.7												
(A)=3TNV76-PBV												
(B)=												
(C)=												
(D)=												
(E)=												
(F)=												
Q'ty												
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R	
1	1	119717-21700	CRANKSHAFT ASSY	1								
2	2	129100-01580	PIN, PARALLEL 8X16	1								
5	2	22512-040120	KEY, 4X 12	1								
6	1	121111-21501	BOLT, FLYWHEEL	5								
7	1	119636-21580	FLYWHEEL ASSY	1								
9	2	119865-21600	GEAR, RING Z=116	1								
10	1	119717-21650	V-PULLEY, CRANKSHAFT	1								
11	1	119621-21680	BOLT, FLANGE 12X1.25	1								
12	1	119620-21941	WASHER, 12	1								
13	1	119717-22080	PISTON ASSY	3								
15	2	119717-22500	RING SET, PISTON	3								
19	1	119717-22300	PIN, PISTON	3								
20	1	22252-000220	RING, 22	6								
21	1	119717-23000	ROD ASSY, CONNECTING	3								
23A	2	119717-23910	METAL, PISTON PIN	3								1
24	2	119717-23200	BOLT, CONNECTING ROD	6								
25	2	119717-23600	METAL ASSY,CRANK PIN	3								1
25-1	2	119717-23601	METAL ASSY,CRANK PIN	3						N		1
(A=E/#24271)												
27	1	119717-22090	PISTON ASSY, 0.25 OS	3								2
29	2	119717-22550	RING SET, PISTON .25	3								2
33	1	119717-23610	METAL ASSY, PIN .25	3								3
33-1	1	119717-23611	METAL ASSY, PIN .25	3						N		3
(A=E/#24271)												

N:Old

Yes

No

New, Q:Old

No

Yes

New, R:Old

Yes

No

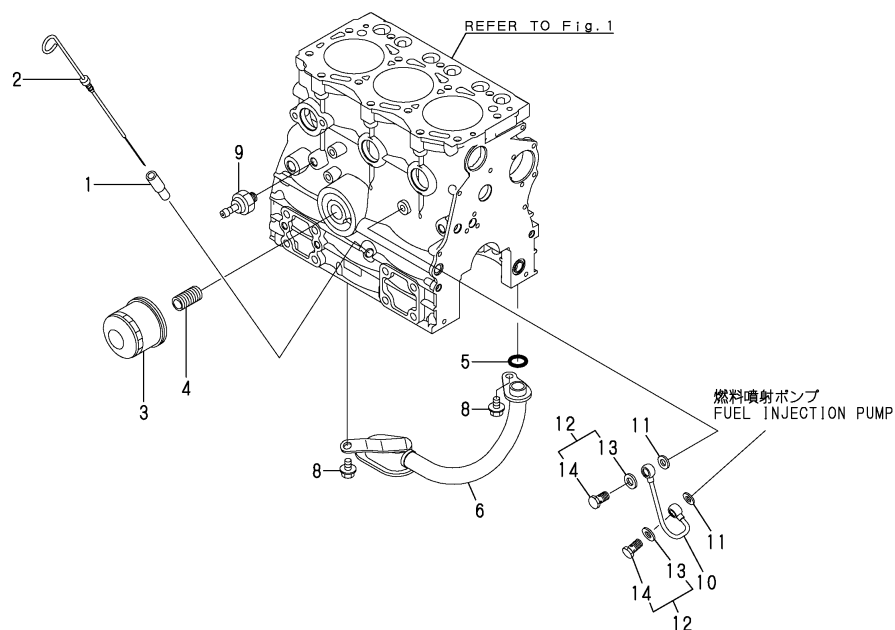
New, S:Old

No

Yes

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

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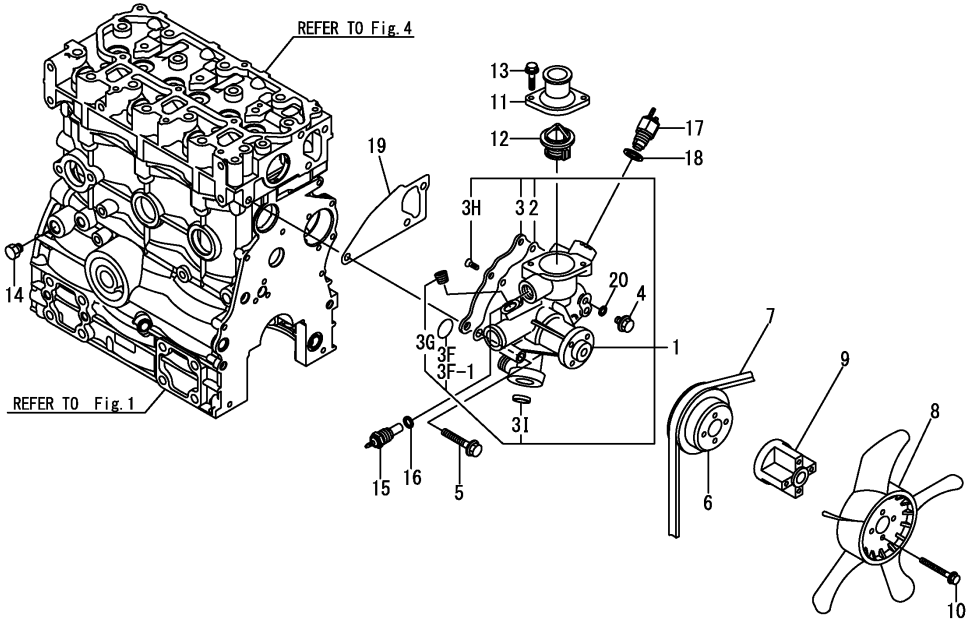
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	121520-34810	GUIDE, DIPSTICK	1							
2	1	119740-34801	DIPSTICK, OIL	1							
3	1	119305-35170	FILTER ASSY, D68XL65	1							
4	1	129100-35140	STUD	1							
4-1	1	119717-35140	STUD	1							N
		(A=E74906)									
4-2	1	119417-35140	STUD, LO FILTER	1							N
		(A=EX6820)									
5	1	119717-32060	O-RING, P15.0	1							
6	1	119717-35080	PIPE ASSY, OIL INLET	1							
8	1	26106-060102	BOLT, M6X 10 PLATED	2							
9	1	114250-39450	SWITCH, HYDRAULIC	1							
10	1	119717-39210	PIPE, PUMP	1							
11	1	22190-080002	WASHER, SEAL 8	2							
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							

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

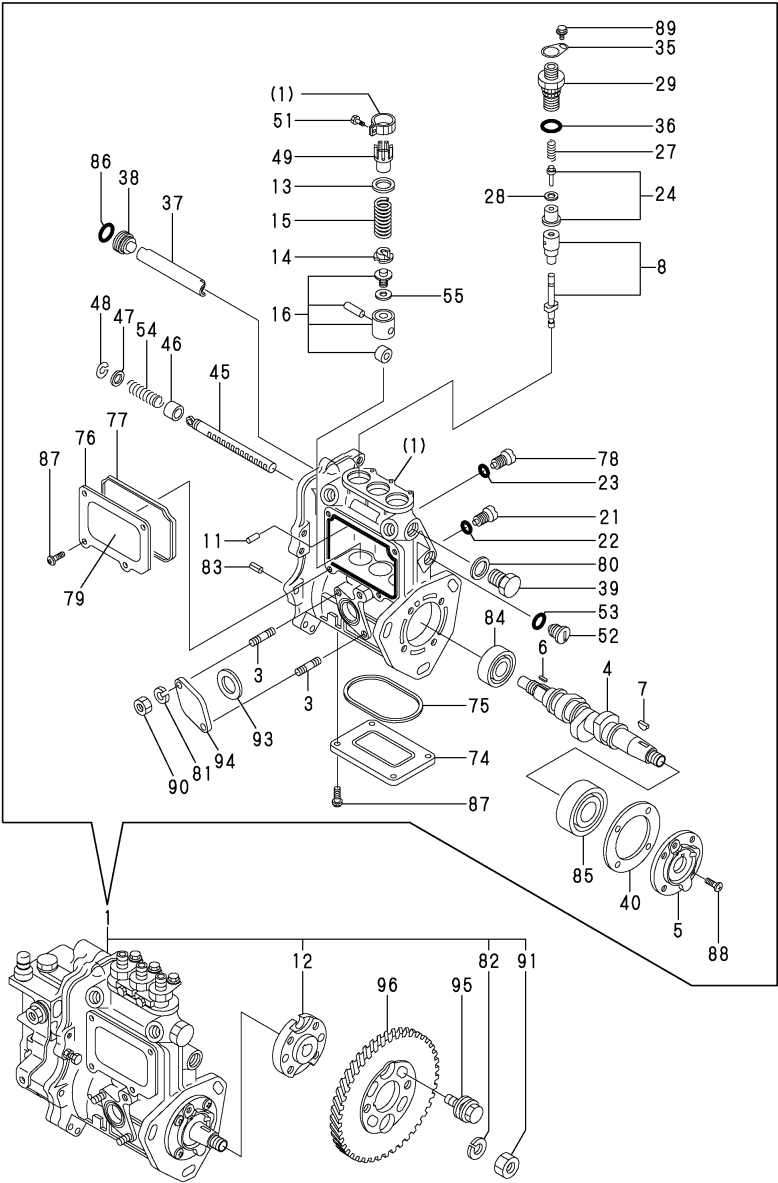
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(B)=
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119717-42002	PUMP ASSY, WATER	1							
1-1	1	119E10-42000	PUMP ASSY, WATER	1							N
(A=EA9943)											
2	2	119717-42031	GASKET, WATER PUMP	1							
3	2	119717-42041	COVER, WATER PUMP	1							
3F	2	119717-42320	O-RING, P26	1							
3F-1	2	119C10-42320	O-RING, 2028	1							S
(A=EA9943)											
3G	2	129916-49740	PLUG, R3/8	1							
3H	2	26577-060122	SCREW, M6X12	4							
3I	2	27241-250000	PLUG, 25	1							
4	1	26106-080122	BOLT, M8X 12 PLATED	1							
5	1	26106-080502	BOLT, M8X 50 PLATED	3							
6	1	119740-42350	V-PULLEY, PUMP D=90	1							
7	1	171001-42290	V-BELT, A35.5	1							
8	1	119233-44740	FAN, COOLING D290XUH	1							
9	1	171353-44760	SPACER, FAN 25MM	1							
10	1	26106-060402	BOLT, M6X 40 PLATED	4							
11	1	129350-49530	COVER, THERMOSTAT	1							
12	1	119717-49800	THERMOSTAT, 71C	1							
13	1	26106-080202	BOLT, M8X 20 PLATED	2							
14	1	171056-49120	PLUG, DRAIN R1/4	1							
15	1	171056-49351	SENSOR, TEMPERATURE	1							
16	1	129150-49360	GASKET, 10	1							
17	1	121250-44901	SWITCH, TEMPERATURE	1							
18	1	124465-44950	GASKET, 16	1							
19	1	119717-42020	GASKET, WATER PUMP	1							
20	1	23414-080000	GASKET, 8X1.0	1							

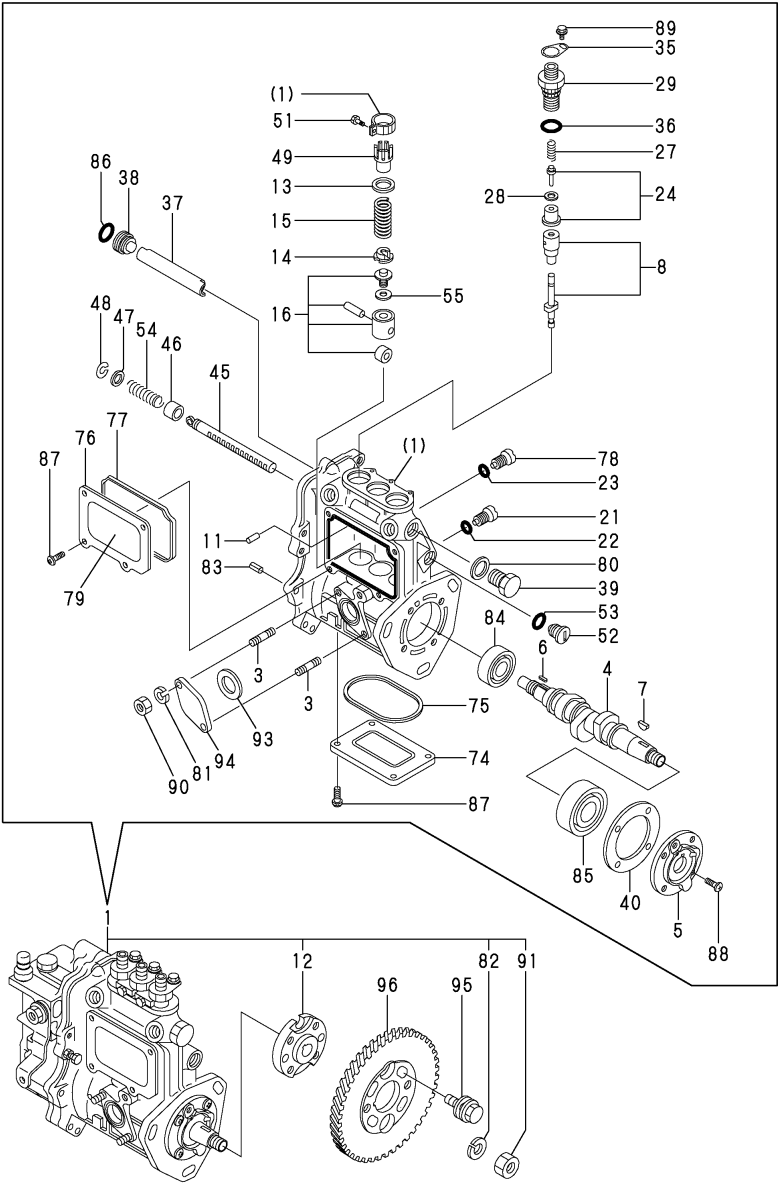
Fig.10. FUEL INJECTION PUMP



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)		
1	1	719740-51360	PUMP ASSY, INJECTION	1							1
3	2	129155-51020	STUD	2							
4	2	119717-51030	CAMSHAFT, PUMP	1							
5	2	119717-51060	SUPPORT, CAMSHAFT	1							
6	2	119717-51070	KEY, PARALLEL	1							
7	2	122710-51090	KEY, FEATHER	1							
8	2	119740-51100	PLUNGER ASSY	3							
11	2	129155-51140	PIN, BARREL LOCK	3							
12	2	119717-51150	FLANGE, CAMSHAFT	1							
13	2	158600-51170	RETAINER, SPRING	3							
14	2	119717-51180	RETAINER, SPRING	3							
14-1	2	119717-51570	RETAINER, SPRING	3							R
(A=E/#19699)											
15	2	119717-51190	SPRING, PLUNGER	3							
16	2	119717-51200	TAPPET ASSY, ROLLER	3							
21	2	158600-51270	STOPPER, TAPPET	3							
22	2	129155-51280	O-RING, S6	3							
23	2	129155-51280	O-RING, S6	1							
24	2	119717-51300	VALVE ASSY, DELIVERY	3							
27	2	119717-51330	SPRING, DELIVERY	3							
28	2	124550-51350	GASKET, DELIVERY	3							
29	2	158600-51440	VALVE ASSY, DELIVERY	3							
29-1	2	158600-51441	VALVE ASSY, DELIVERY	3							N
(A=E/#05062)											
29-2	2	158600-51442	VALVE ASSY, DELIVERY	3							N
(A=E/#15727)											
35	2	118400-51370	PLATE, LOCK	3							
36	2	24316-000150	O-RING, 4DP15.0	3							
37	2	129155-51400	PROTECTOR	1							
38	2	158600-51410	PLUG, DEFLIFTER M12	1							
39	2	158600-51420	PLUG, DEFLIFTER M16	1							
40	2	129155-51450	SHIM SET, ADJUSTING	1							
45	2	119717-51500	RACK, CONTROL	1							
46	2	129155-51521	BUSH, RACK	1							
47	2	129155-51530	SPACER, SPRING	1							
48	2	129155-51540	CIRCLIP, C	1							
49	2	129155-51550	PINION, CONTROL	3							
51	2	129100-51570	SCREW, PINION M4	3							
52	2	158600-51570	PLUG, RACK	1							
53	2	129155-51580	O-RING	1							
54	2	129155-51591	SPRING, RACK ASSIST	1							
55	2	129155-51600	SHIM SET, ADJUSTING	3							
74	2	129155-51701	COVER, PUMP BOTTOM	1							
75	2	119717-51710	GASKET	1							
75-1	2	119717-51711	GASKET, PUMP	1							N
(A=E/#24271)											
76	2	119717-51750	COVER, BODY SIDE	1							
77	2	119717-51760	GASKET	1							
77-1	2	119717-51761	GASKET, PUMP COVER	1							N
(A=E/#24271)											
78	2	158600-51790	STOPPER, RACK	1							

Fig.10. FUEL INJECTION PUMP



(A)=3TNV76-PBV
(B)=
(C)=

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

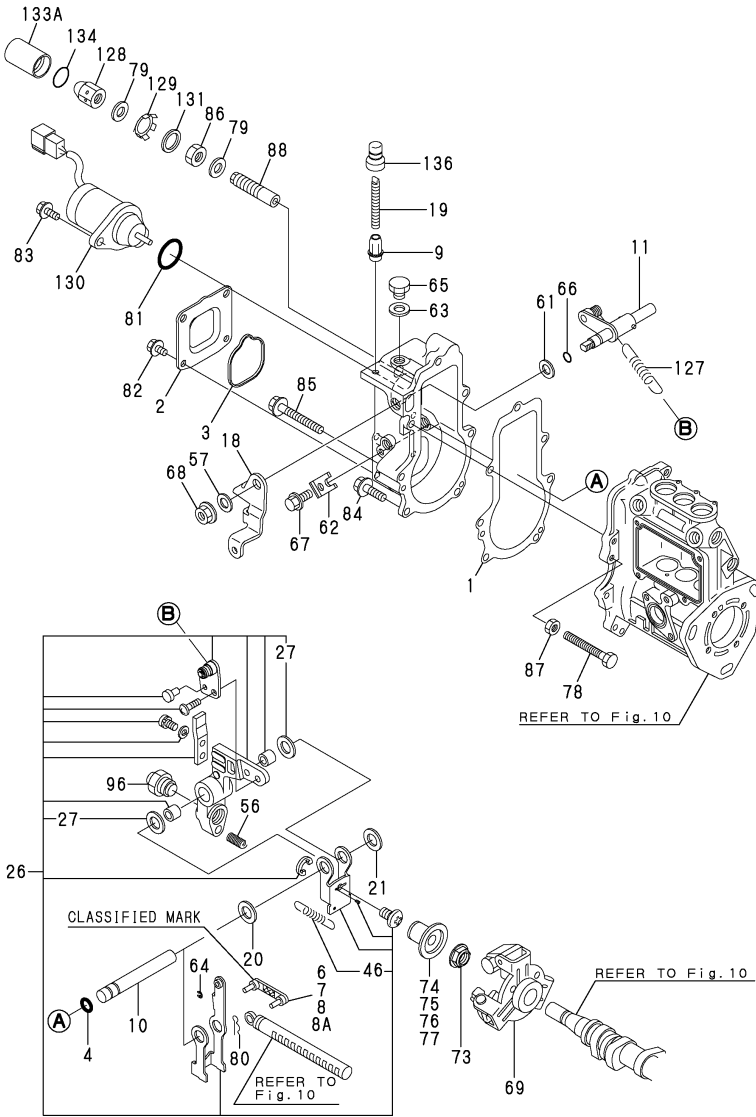
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
79	2	129156-51910	LABEL, FIE CAUTION	1							
79-1	2	129156-51910	LABEL, FIE CAUTION	1							Z
(A=E/#24271)											
80	2	22190-160002	WASHER, SEAL 16	1							
81	2	22217-060000	WASHER, SPRING 6	2							
82	2	22217-120000	WASHER, SPRING 12	1							
83	2	22351-050010	PIN, SPRING 5.0X10	2							
84	2	24101-060034	BEARING, BALL 6003	1							
85	2	24101-063034	BEARING, BALL 6303	1							
86	2	119717-51420	O-RING	1							
87	2	26022-050122	SCREW, M5X12	8							
88	2	26022-060162	SCREW, M6X16	4							
89	2	26106-050102	BOLT, M5X 10 PLATED	3							
90	2	26716-060002	NUT, M6	2							
91	2	26716-120002	NUT, M12	1							
93	2	129155-52051	GASKET, PUMP COVER	1							
94	2	129100-52200	COVER, FEED PUMP	1							
95	1	129150-25301	BOLT, INJECTION PUMP	4							
96	1	119717-25930	GEAR, PUMP	1							

Remarks

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

(A)=3TNV76-PBV
(B)=
(C)=

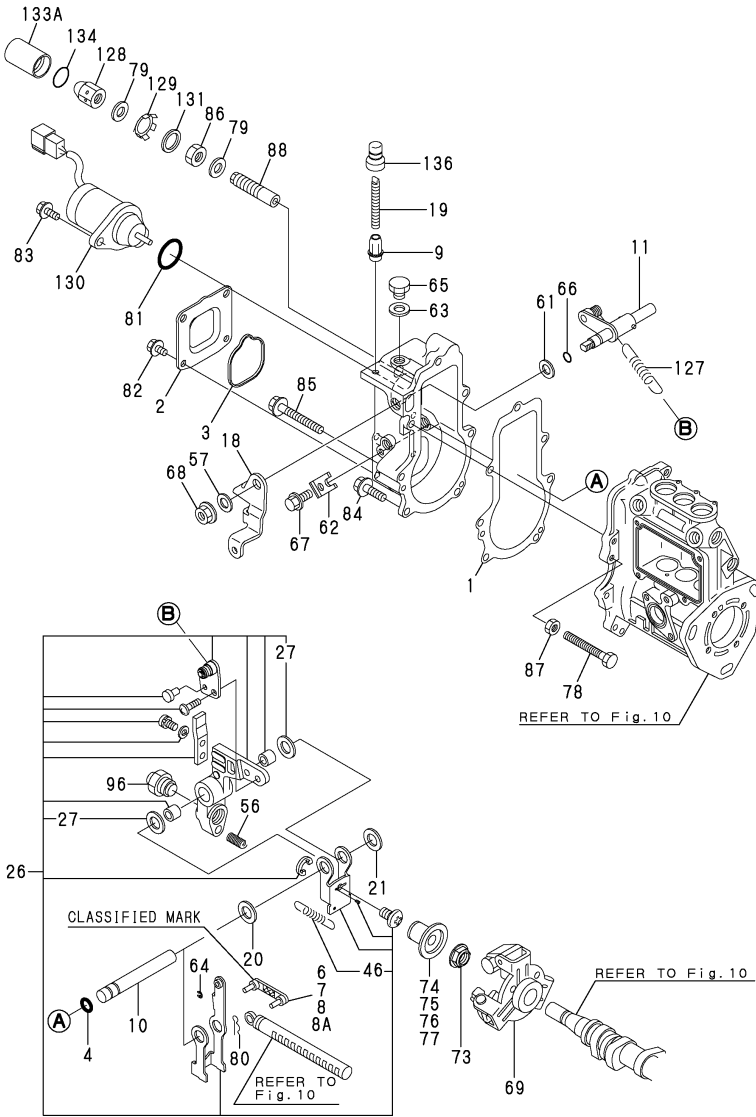
(D)=
(E)=
(F)=



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	2	119717-61050	GASKET, CASE	1							
2	2	119717-61060	COVER, GOVERNOR CASE	1							
3	2	119717-61070	GASKET, COVER	1							
4	2	129155-51280	O-RING, S6	1							
6	2	119717-61120	LINK, L=29.3 MARK 3	1							1
7	2	119717-61130	LINK, L=29.8 MARK 98	1							1
8	2	119717-61140	LINK, L=28.8 MARK 88	1							1
8A	2	119717-61150	LINK, L=30.3 MARK 03	1							1
9	2	129209-61370	NUT, ARB M6	1							
10	2	129052-61390	SHAFT,GOVERNOR LEVER	1							
11	2	119717-61400	SHAFT ASSY, LEVER	1							
18	2	119740-61440	LEVER, CONTROL	1							
19	2	129155-61450	BOLT, LIMITER	1							
20	2	129156-61460	SHIM, LEVER T=0.6	1							
21	2	129155-61480	SPACER ASSY, LEVER	1							
26	2	119717-61500	LEVER ASSY, GOVERNOR	1							
27	3	174307-51700	SHIM SET, PLUNGER	2							
46	3	129486-61540	SPRING, LEVER	1							
56	2	129100-61650	SPRING, FUEL LIMITER	1							
57	2	158552-61700	SHIM SET	1							
61	2	158552-61710	SHIM, T=1.0	1							
62	2	119660-61901	STOPPER, SHAFT	1							
63	2	22190-100002	WASHER, SEAL 10	1							
64	2	22272-000030	RING, E- 3	1							
65	2	23887-100002	PLUG, 10	1							
66	2	24341-000070	O-RING, 1AS7.0	1							
67	2	26106-060102	BOLT, M6X 10 PLATED	1							
68	2	26366-080002	NUT, M8	1							
69	2	119717-61200	WEIGHT ASSY,GOVERNOR	1							
73	2	119660-61300	NUT, SUPPORT	1							
74	2	129155-61341	SLEEVE	1							2
75	2	129155-61350	SLEEVE, ADJUST L24.9	1							2
76	2	129155-61360	SLEEVE, ADJUST L25.2	1							2
77	2	129155-61370	SLEEVE, ADJUST	1							2
78	2	129155-61460	BOLT, IDLE LIMIT	1							
79	2	22190-120002	WASHER, SEAL 12	2							
80	2	22372-040000	PIN, SNAP 4	1							
81	2	24341-000280	O-RING, 1AS28.0	1							
81-1	2	158552-61900	O-RING	1							N
(A=EXXXXX)											
82	2	26106-060102	BOLT, M6X 10 PLATED	4							
83	2	26106-060142	BOLT, M6X 14 PLATED	2							
84	2	26106-060202	BOLT, M6X 20 PLATED	4							
85	2	26106-060452	BOLT, M6X 45 PLATED	3							
86	2	26736-120002	NUT, M12	1							
87	2	26756-060002	NUT, LOCK M6	1							
88	2	158601-61700	LIMITER ASSY, FUEL	1							
96	2	119718-61560	ANGLEICH ASSY	1							
127	2	171353-61700	SPRING, GOVERNOR	1							
128	2	129209-61930	NUT	1							
129	2	129209-61970	PLATE	1							

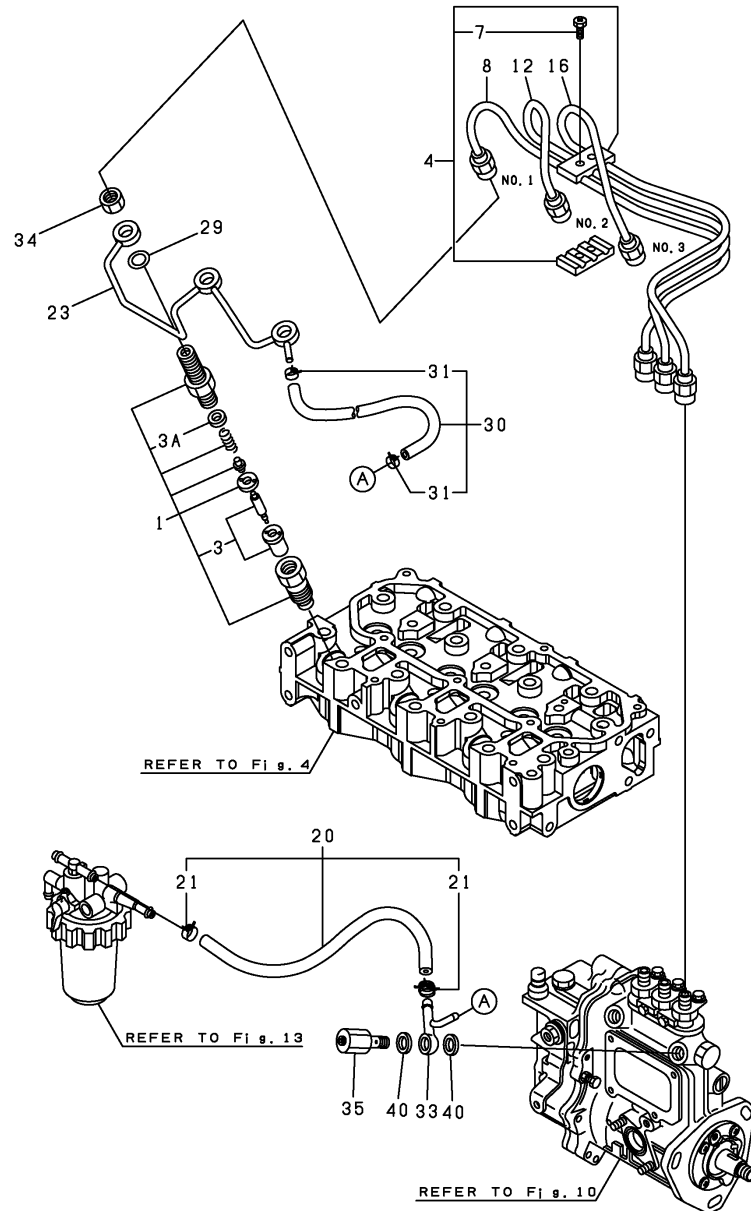
(A)=3TNV76-PBV
(B)=
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
130	2	119233-77932	SOLENOID, STOP	1							
131	2	23414-120016	GASKET, 12X1.0	1							
133A	1	129209-61960	CASE	1							3
134	1	24311-000150	O-RING, 1AP15.0	1							
136	1	119285-66650	CAP, HIGH-IDLE	1							3

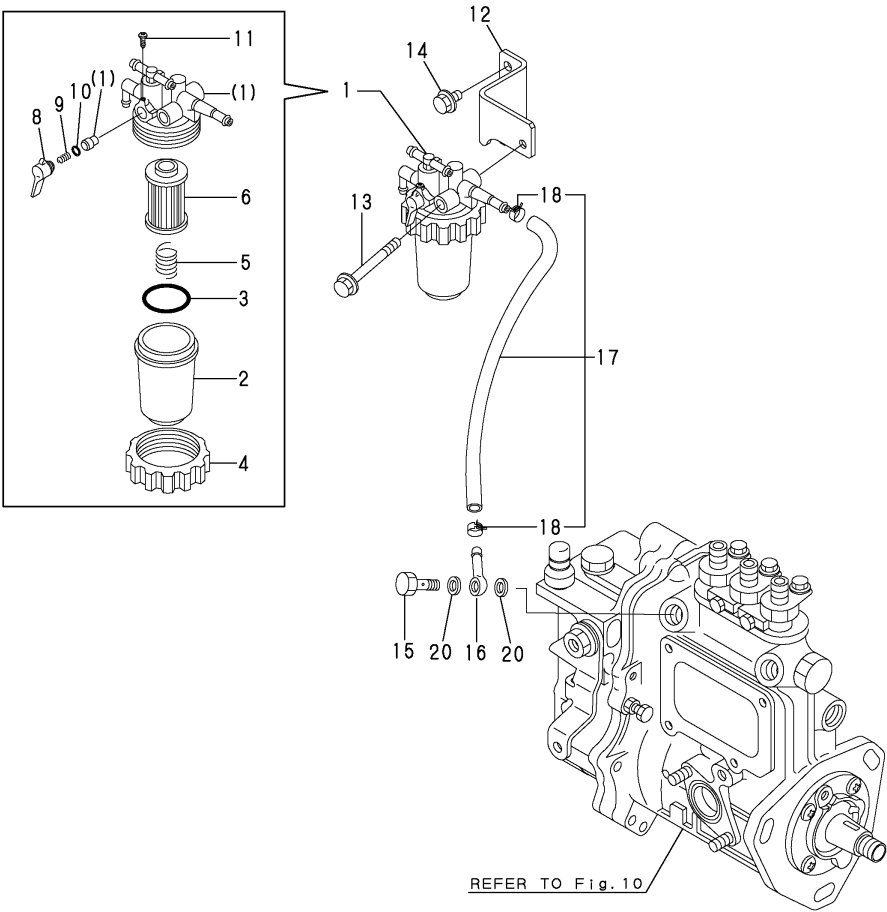
Remarks
(1)Selective parts.
Certain the classification mark, then place your order(Refer to illustration).
(2)Selective parts.
(3)Repair parts.



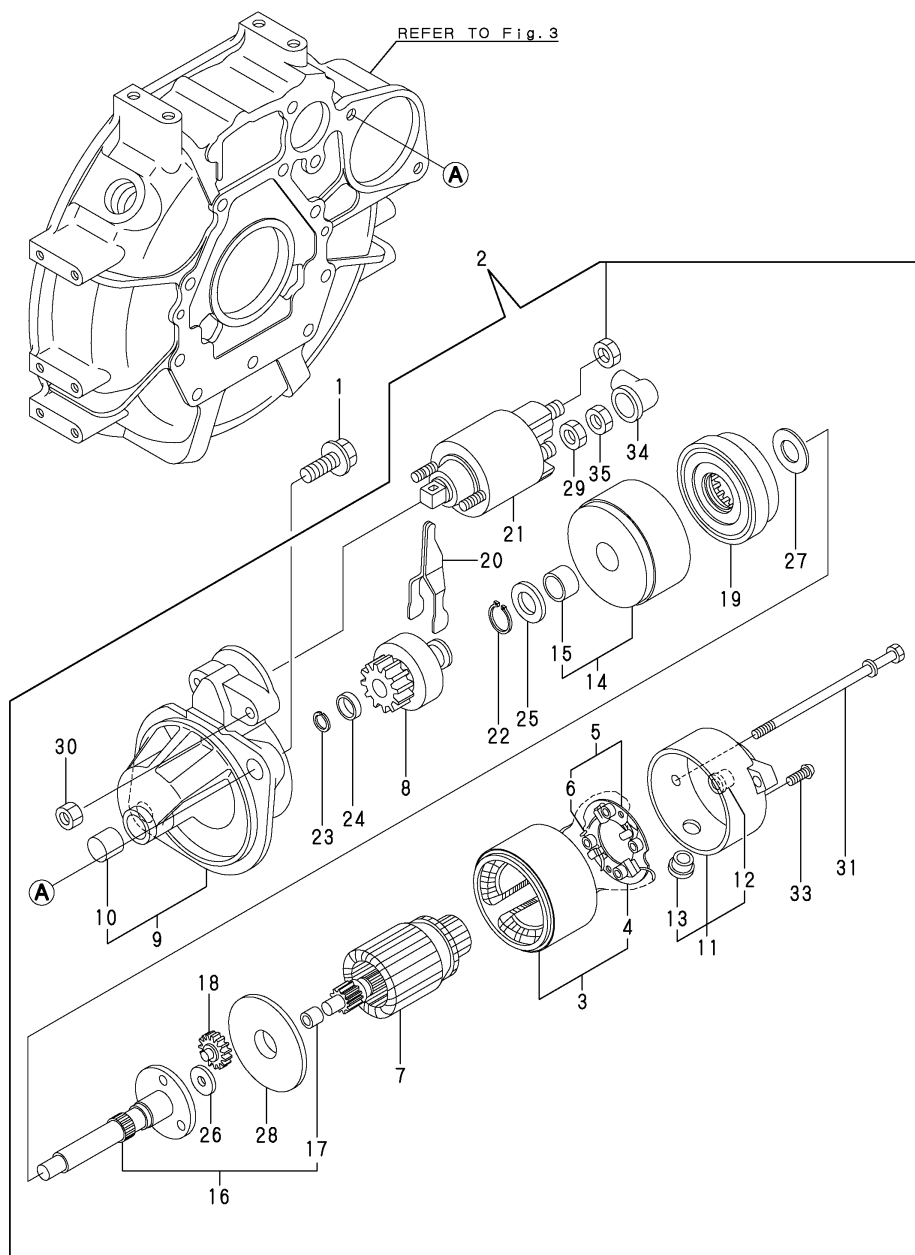
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119717-53001	VALVE ASSY,INJECTION	3							
3	2	119717-53010	NOZZLE ASSY	3							
3A	2	129901-53800	SHIM SET, ADJUSTING	3							
4	1	129150-59120	RETAINER, PIPE	1							
7	2	129150-59131	BOLT, M4X14	2							
8	1	119717-59810	PIPE, INJECTION NO.1	1							
12	1	119717-59820	PIPE, INJECTION NO.2	1							
16	1	119717-59830	PIPE, INJECTION NO.3	1							
20	1	129210-59100	HOSE ASSY, FUEL L300	1							
21	2	124766-59050	CLAMP, HOSE 11.5	2							
23	1	119717-59510	PIPE ASSY, RETURN	1							
29	1	129901-59560	GASKET, FUEL RETURN	3							
30	1	119717-59570	HOSE ASSY, RETURN	1							
30-1	1	119540-59570	HOSE ASSY, RETURN	1							N
(A=E/#08188)											
31	2	124066-59100	CLAMP, HOSE 8	2							
33	1	119840-59570	JOINT, OVERFLOW	1							
34	1	119620-59700	NUT, NOZZLE RETURN	3							
35	1	119813-59950	VALVE ASSY, CHECK	1							
40	1	22190-120002	WASHER, SEAL 12	2							

(A)=3TNV76-PBV
(B)=
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119740-55600	FILTER ASSY, FUEL	1							
2	2	121254-55510	CUP, FUEL STARINER	1							
3	2	102103-55520	O-RING, FILTER	1							
4	2	110250-55610	RING, CUP RETAINING	1							
5	2	121250-55620	SPRING, ELEMENT	1							
6	2	119810-55650	ELEMENT, FUEL FILTER	1							
8	2	119810-55340	LEVER, FUEL	1							
9	2	104200-55330	SPRING, FUEL VALVE	1							
10	2	24311-240100	O-RING, 1AP10A	1							
11	2	104200-55750	SCREW, M4	1							
12	1	119740-55650	BRACKET, FILTER	1							
12-1	1	119740-55651	BRACKET, FILTER	1							N
(A=EZZZZZ)											
13	1	26014-080702	BOLT, M8X 70	1							
14	1	26106-080142	BOLT, M8X 14 PLATED	2							
15	1	103854-39140	BOLT, PIPE JOINT	1							
16	1	101304-59020	JOINT, PIPE 12	1							
17	1	129210-59020	PIPE ASSY, FUEL L115	1							
18	2	124766-59050	CLAMP, HOSE 11.5	2							
20	1	22190-120002	WASHER, SEAL 12	2							

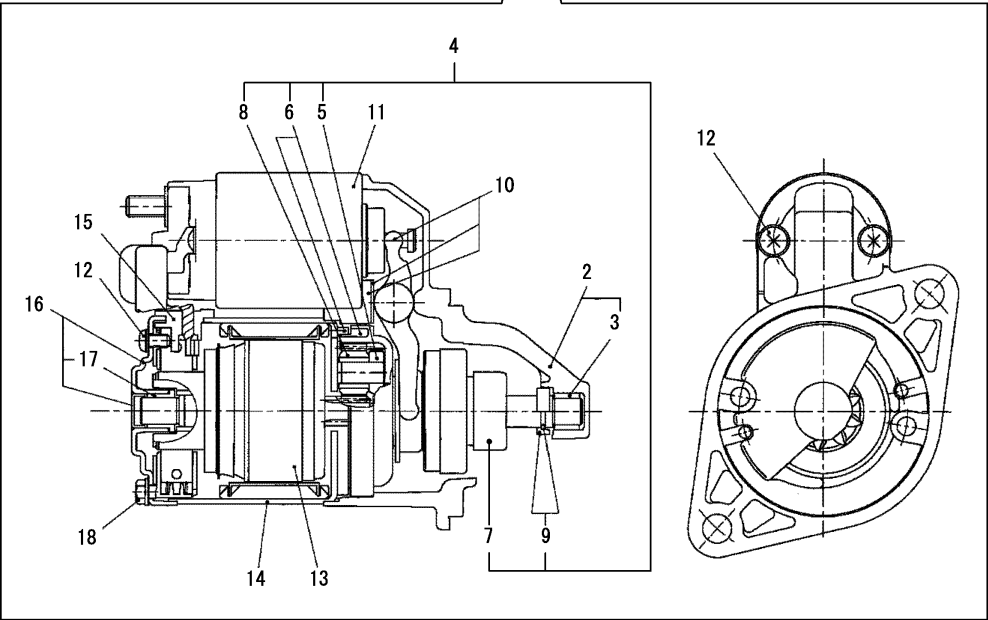
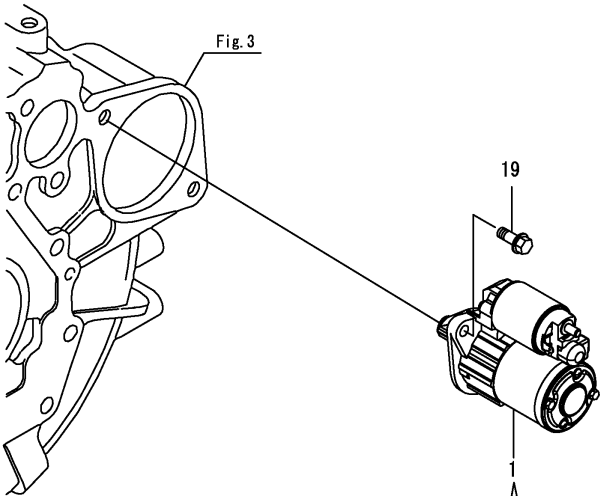


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	26106-100252	BOLT, M10X 25 PLATED	2							
2	1	119717-77010	STARTER, P1.1	1							
3	2	X0281007750	YOKE ASSY	1							
4	3	X0280996180	STARTER KIT	2							
5	2	X0285105190	HOLDER ASSY	1							
6	3	X0285205030	SPRING	4							
7	2	X0282005991	ARMATURE ASSY	1							
8	2	X0283006960	CLUTCH	1							
9	2	X5128400414	HOUSING ASSY	1							
9-1	2	X4284001590	HOUSING ASSY	1							N
		(A=EXXX)									
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, SUB	1							
15	3	X9491034330	BEARING	1							
16	2	X0286105010	SHAFT ASSY, SUB	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							

Fig.18. (14A)STARTER MOTOR(FROM E136361)

(A)=3TNV76-PBV
(B)=
(C)=

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

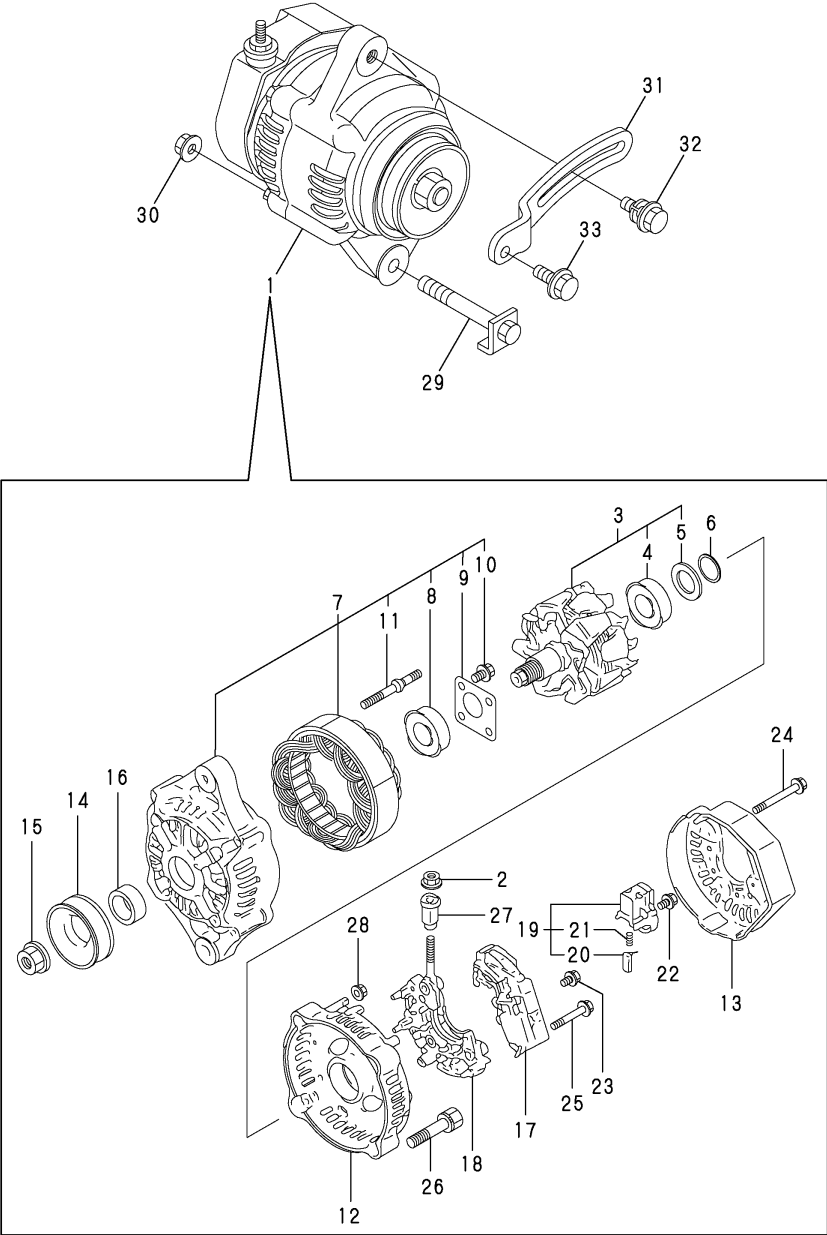


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119E10-77000	STARTER, 12V-1.1KW	1							N
		(A=E136361)									
2	2	119E10-77500	BRACKET ASSY, FRONT	1							
3	3	119E10-77510	METAL, FR	1							
4	2	119E10-77520	SHAFT ASSY, CLUTCH	1							
5	3	119E10-77530	SHAFT ASSY, GEAR	1							
6	3	119E10-77540	GEAR ASSY, INTERNAL	1							
7	3	119E10-77550	CLUTCH, OVER RUNNING	1							
8	3	119E10-77560	GEAR ASSY	3							
9	3	119E10-77570	STOPPER SET	1							
10	2	119E10-77580	LEVER	1							
11	2	119E10-77590	SWITCH ASSY	1							
12	2	119E10-77600	SCREW SET	1							
13	2	119E10-77610	ARMATURE	1							
14	2	119E10-77620	YOKE ASSY	1							
15	2	119E10-77630	BRUSH ASSY	1							
16	2	119E10-77640	COVER ASSY	1							
17	3	119E10-77650	METAL, RR	1							
18	2	119E10-77660	BOLT SET	1							
19	1	26106-100252	BOLT, M10X 25 PLATED	2							

Fig.15. GENERATOR(TO 2023.02)

(A)=3TNV76-PBV
(B)=
(C)=

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

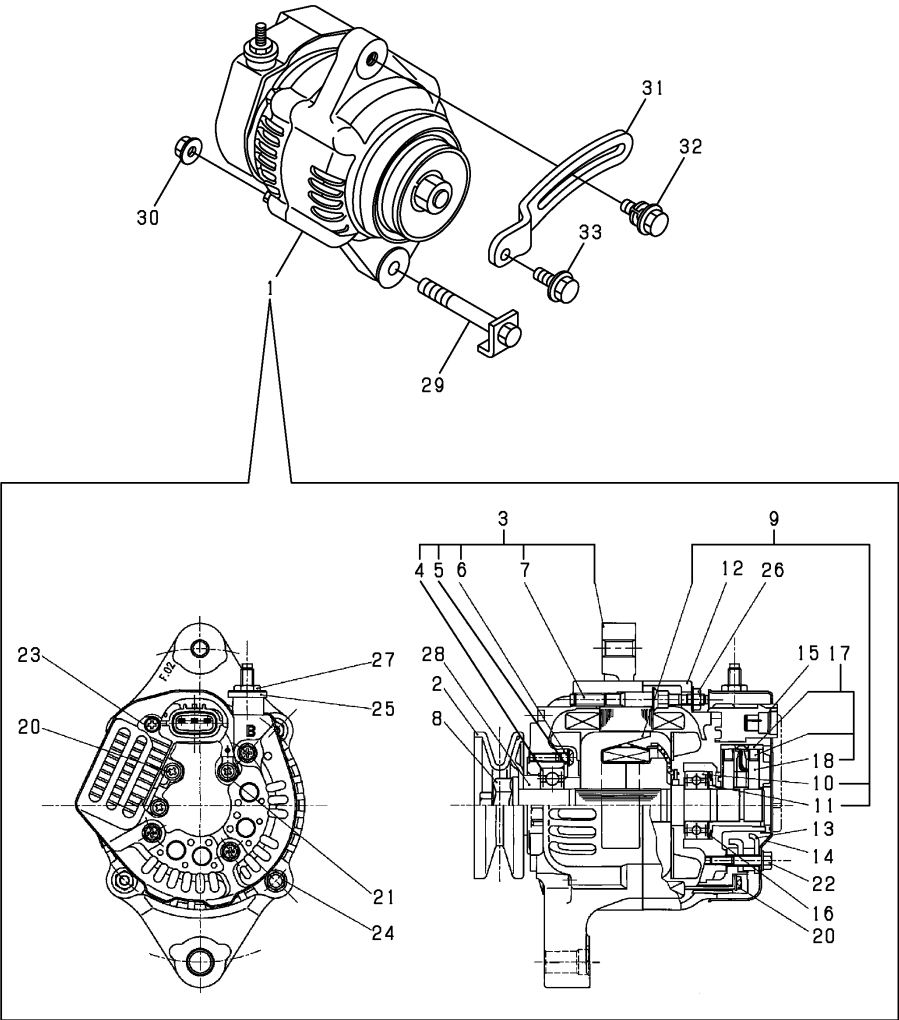


No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129423-77200	GENERATOR, 12V-40A	1							
1-1	1	129423-77210	ALTERNATOR, 12V-40A	1							N
(A=EL7822)											
2	2	X9490561001	NUT	1							
2-1	2	129240-79310	NUT	1							N
(A=ET2918)											
3	2	119620-77380	ROTOR ASSY	1							
4	3	119620-79240	BEARING, BALL	1							
4-1	3	123501-79240	BEARING, BALL	1							N
(A=E/#06223)											
5	3	119620-79250	COVER, BEARING	1							
6	2	119620-79360	WASHER, THRUST	1							
7	2	119620-77421	FRAME ASSY, DRIVE	1							
8	3	119620-79200	BEARING, BALL	1							
9	3	119620-79210	PLATE, RETAINER	1							
10	3	119620-79220	SCREW	4							
11	3	119620-79230	STUD	2							
12	2	119620-77440	FRAME ASSY, REAR	1							
13	2	129240-79300	COVER	1							
14	2	119620-77461	PULLEY, GENERATOR	1							
15	2	119620-77471	NUT	1							
16	2	119620-77490	COLLAR	1							
17	2	129423-77710	REGULATOR ASSY	1							
17-1	2	129423-77720	REGULATOR ASSY	1							N
(A=EL7822)											
17-2	2	129423-77730	REGULATOR ASSY	1							N
(A=ET2918)											
18	2	119620-79260	HOLDER ASSY	1							
19	2	119620-79270	HOLDER ASSY, BRUSH	1							
19-1	2	129052-79270	HOLDER ASSY, BRUSH	1							N
(A=E/#06223)											
20	3	119620-77480	BRUSH ASSY, SUB	2							
21	3	119620-79280	SPRING	2							
22	2	119620-79290	SCREW	6							
23	2	119620-79300	SCREW	1							
24	2	119620-79310	BOLT	3							
25	2	119620-79320	SCREW, W/WASHER	2							
26	2	119620-79330	BOLT	2							
27	2	119620-79340	BUSH, INSULATION	1							
28	2	119620-79350	NUT	2							
29	1	119740-77250	BOLT, M10X75	1							
30	1	26306-100002	NUT, M10	1							
31	1	119717-77330	ADJUSTER, BELT	1							
32	1	119810-77340	BOLT, ADJUSTER L=30	1							
33	1	26106-080202	BOLT, M8X 20 PLATED	1							

Fig.17. (15A)GENERATOR(FROM 2023.02)

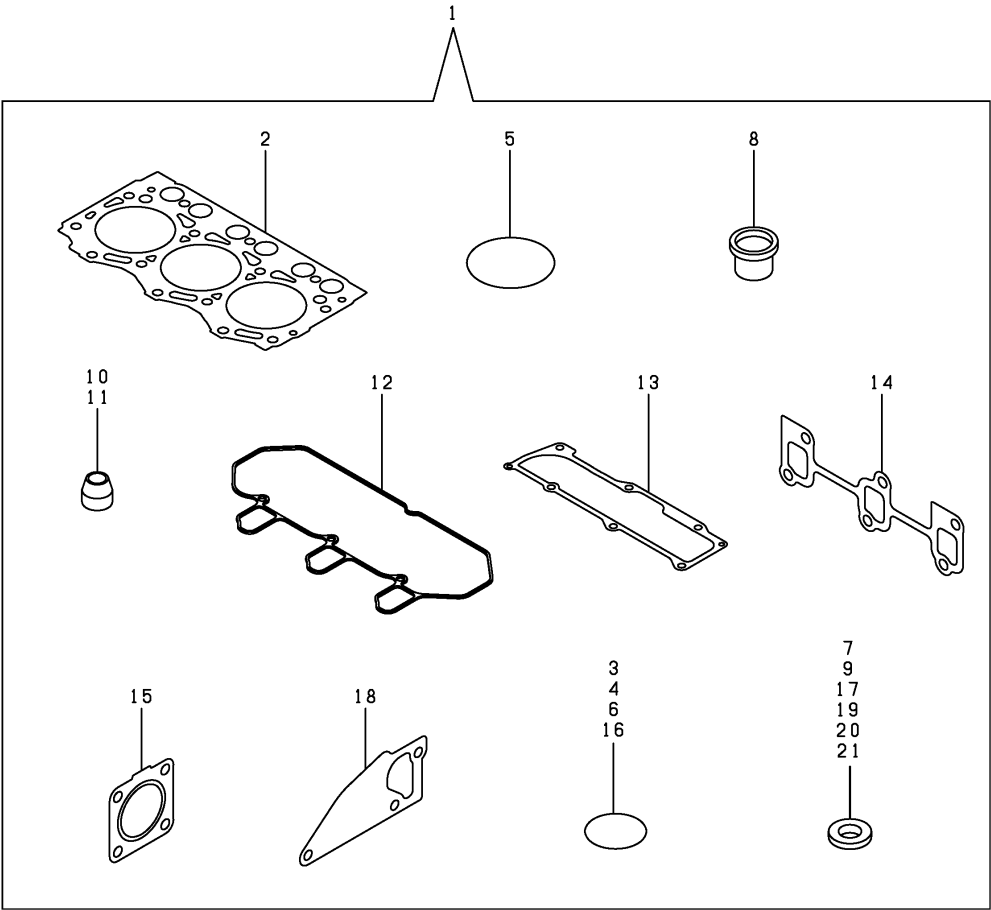
(A)=3TNV76-PBV
(B)=
(C)=

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



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129423-77220	ALTERNATOR, 12V-40A	1							
(A=*2023.02.)											
2	2	119254-77500	PULLEY, GENERATOR	1							
3	2	129423-77500	FRAME ASSY, DRIVE	1							
4	3	119254-77530	BEARING, BALL	1							
5	3	119254-77540	PLATE, RETAINER	1							
6	3	119254-77550	SCREW	4							
7	3	119254-77560	STUD	2							
8	2	119254-77510	NUT	1							
9	2	129423-77510	ROTOR ASSY	1							
10	3	119254-77580	BEARING, BALL	1							
11	3	119254-77590	COVER, BEARING	1							
12	2	129423-77520	FRAME, END RR	1							
13	2	129423-77530	HOLDER ASSY, RECTIFI	1							
14	2	129423-77560	COVER, END RR	1							
15	2	119626-77570	REGULATOR ASSY	1							
16	2	129423-77570	WASHER	1							
17	2	119254-77620	HOLDER ASSY, BRUSH	1							
18	3	129423-77540	BRUSH ASSY, SUB	2							
20	2	119254-77640	SCREW	6							
21	2	119254-77650	SCREW	1							
22	2	119254-77660	BOLT	3							
23	2	119254-77670	SCREW, W/WASHER	2							
24	2	119254-77680	BOLT	2							
25	2	119254-77700	BUSH, INSULATION	1							
26	2	119254-77710	NUT	2							
27	2	119254-77720	NUT	1							
28	2	119254-77730	COLLAR	1							
29	1	119740-77250	BOLT, M10X75	1							
30	1	26306-100002	NUT, M10	1							
31	1	119717-77330	ADJUSTER, BELT	1							
32	1	119810-77340	BOLT, ADJUSTER L=30	1							
33	1	26106-080202	BOLT, M8X 20 PLATED	1							

Fig.16. GASKET SET



(A)=3TNV76-PBV
(B)=
(C)=

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

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719740-92600	GASKET SET	1							1
2	2	119717-01330	GASKET, HEAD	1							
3	2	119624-32040	O-RING, P12.0	1							
4	2	119717-32050	O-RING, P17.0	2							
5	2	121850-51960	O-RING, FUEL PUMP	1							
6	2	24311-000320	O-RING, 1AP32.0	2							
7	2	22190-160002	WASHER, SEAL 16	1							
8	2	129901-11450	PROTECTOR, NOZZLE	3							
9	2	119600-11460	GASKET, NOZZLE	6							
10	2	119717-11340	SEAL, VALVE STEM	3							
11	2	119717-11350	SEAL, VALVE STEM	3							
12	2	119718-11310	GASKET, BONNET	1							
13	2	119717-11331	GASKET, BONNET COVER	1							
14	2	119717-13110	GASKET, MANIFOLD	1							
15	2	119515-13200	GASKET, SILENCER	1							
16	2	119717-32060	O-RING, P15.0	1							
17	2	22190-080002	WASHER, SEAL 8	4							
18	2	119717-42020	GASKET, WATER PUMP	1							
19	2	23414-080000	GASKET, 8X1.0	1							
20	2	124465-44950	GASKET, 16	1							
21	2	129150-49360	GASKET, 10	1							

Remarks
(1)Optional parts.

Parts No. Index

Parts No.	Fig. No.	Ref. No.
101304-59020	13	16
102103-55520	13	3
103854-39140	13	15
104200-55330	13	9
104200-55750	13	11
105010-11490	4	8
105311-01090	1	6
105425-01690	3	9
110250-55610	13	4
114250-39450	8	9
118400-51370	10	35
119131-18320	5	3
119233-44740	9	8
119233-77932	11	130
119254-77500	17	2
119254-77510	17	8
119254-77530	17	4
119254-77540	17	5
119254-77550	17	6
119254-77560	17	7
119254-77580	17	10
119254-77590	17	11
119254-77620	17	17
119254-77640	17	20
119254-77650	17	21
119254-77660	17	22
119254-77670	17	23
119254-77680	17	24
119254-77700	17	25
119254-77710	17	26
119254-77720	17	27
119254-77730	17	28
119260-07900	4	1
119285-01990	1	8
119285-11990	4	15
119285-66650	11	136
119305-35170	8	3
119417-35140	8	4 -2
119515-13200	5	8
	16	15
119540-59570	12	30 -1
119600-11460	4	6
	16	9
119620-01750	3	4
119620-01800	2	6
119620-02020	1	9
119620-11280	4	31
119620-14200	6	1
119620-21941	7	12
119620-59700	12	34

Parts No.	Fig. No.	Ref. No.
119620-77380	15	3
119620-77421	15	7
119620-77440	15	12
119620-77461	15	14
119620-77471	15	15
119620-77480	15	20
119620-77490	15	16
119620-79200	15	8
119620-79210	15	9
119620-79220	15	10
119620-79230	15	11
119620-79240	15	4
119620-79250	15	5
119620-79260	15	18
119620-79270	15	19
119620-79280	15	21
119620-79290	15	22
119620-79300	15	23
119620-79310	15	24
119620-79320	15	25
119620-79330	15	26
119620-79340	15	27
119620-79350	15	28
119620-79360	15	6
119621-21680	7	11
119623-01250	1	7
119624-32040	2	17
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119626-07900	4	1 -1
119626-77570	17	15
119636-21580	7	7
119660-01911	2	16
119660-61300	11	73
119660-61901	11	62
119717-01330	1	24
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119717-01501	2	1
119717-01570	2	2
119717-01590	2	3
119717-01601	3	2
119717-01720	3	7
119717-01750	2	15
119717-02410	1	12
119717-02411	1	12 -1
119717-02930	1	17
119717-03031	4	41
119717-03070	4	41 A
		42
119717-11100	4	23 A
119717-11110	4	18

Parts No.	Fig. No.	Ref. No.
119717-11131	4	19
119717-11190	4	21
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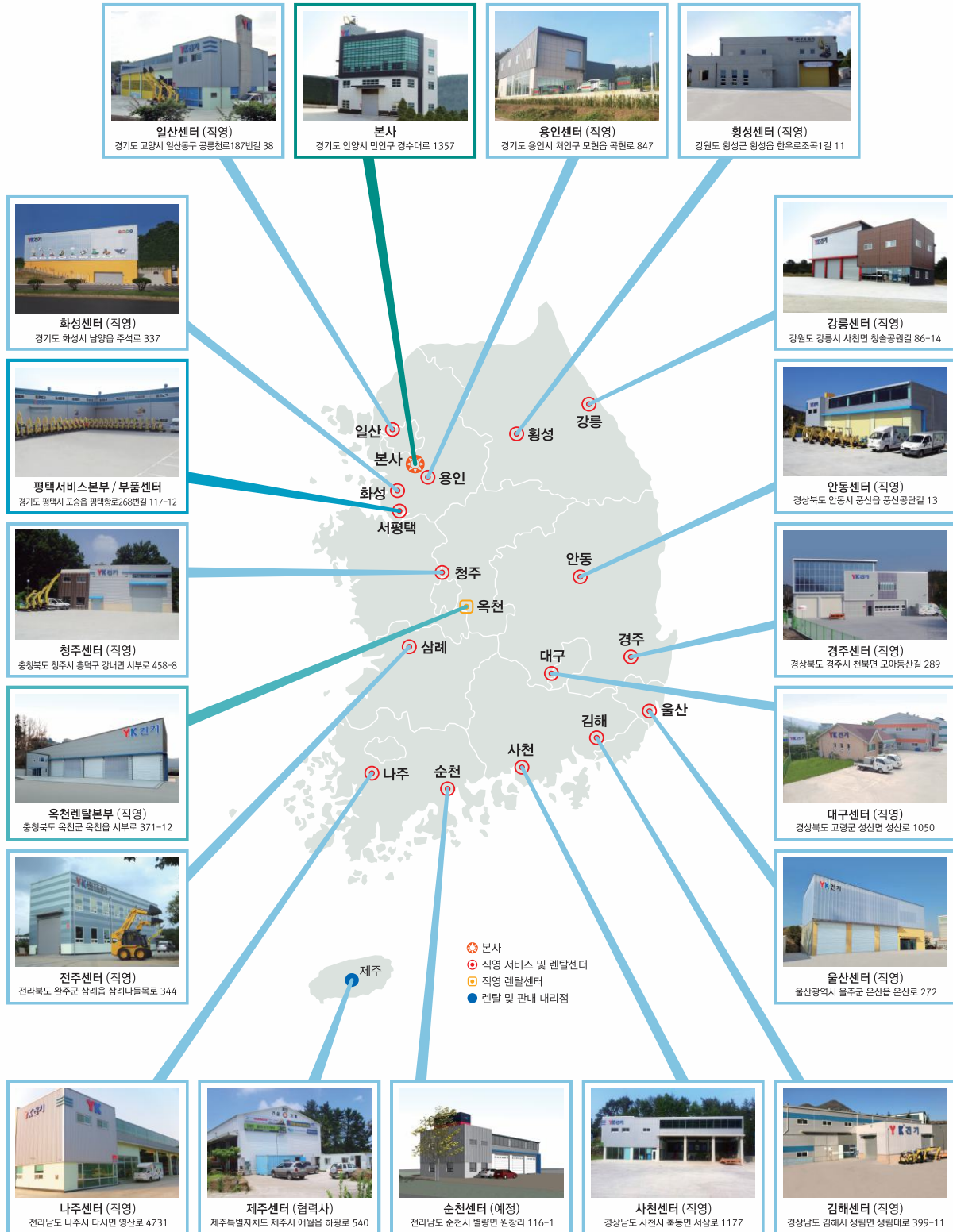
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