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156PAR3208



BE220G EXCAVATOR

PARTS CATALOGUE

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FOREWORD

IN THE PARTS CATALOGUE FEW CODIFICATIONS HAVE BEEN INTRODUCED FOR THE BETTER UNDERSTANDING AND USE, SPECIALLY WITH REGARDS TO THE SERVICEABILITY AND REPLACEMENT OF PARTS :

NAME OF THE PART : Part name with prefixes (.),(..),(...) and so on indicate level of assembly.

QTY : 'Qty' indicates the quantity of a part required per equipment. In case of a component part of an assembly, however, it indicates the quantity of the part required of the assembly.

** : Part is not supplied as an independent part, but as a part of assembly.*

 # : Item is shown to furnish further details and the same is for reference only. Hence the 'QTY' should not be reckoned.

$: Item is shown for shipping purpose only. These items are to be removed while assembling.

NOTE : For BS6D105 Engine details refer separate parts catalogue.

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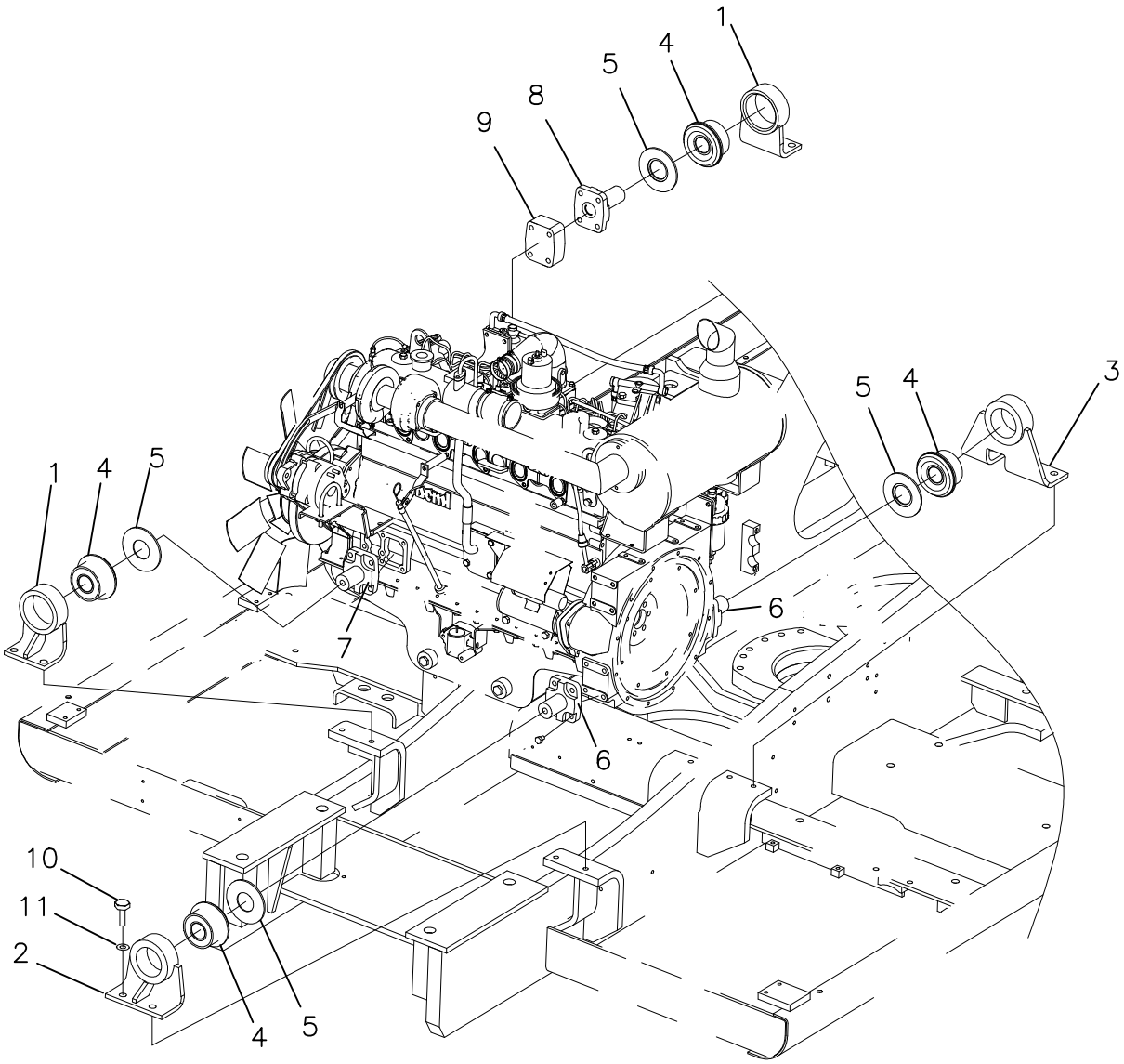
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I. ENGINE RELATED PARTS

AND

ELECTRICAL SYSTEM

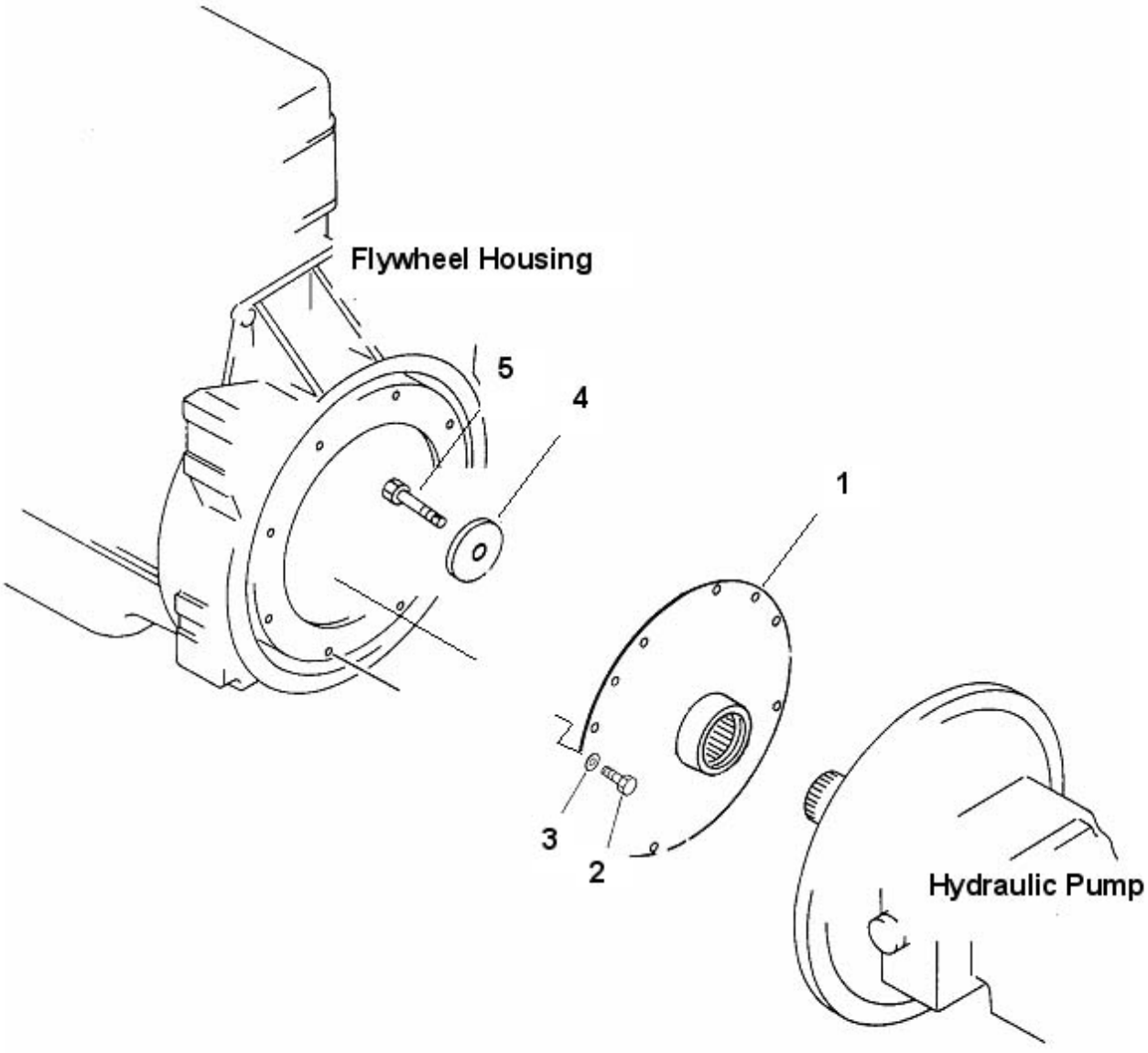
FIG. 1000 ENGINE MOUNT



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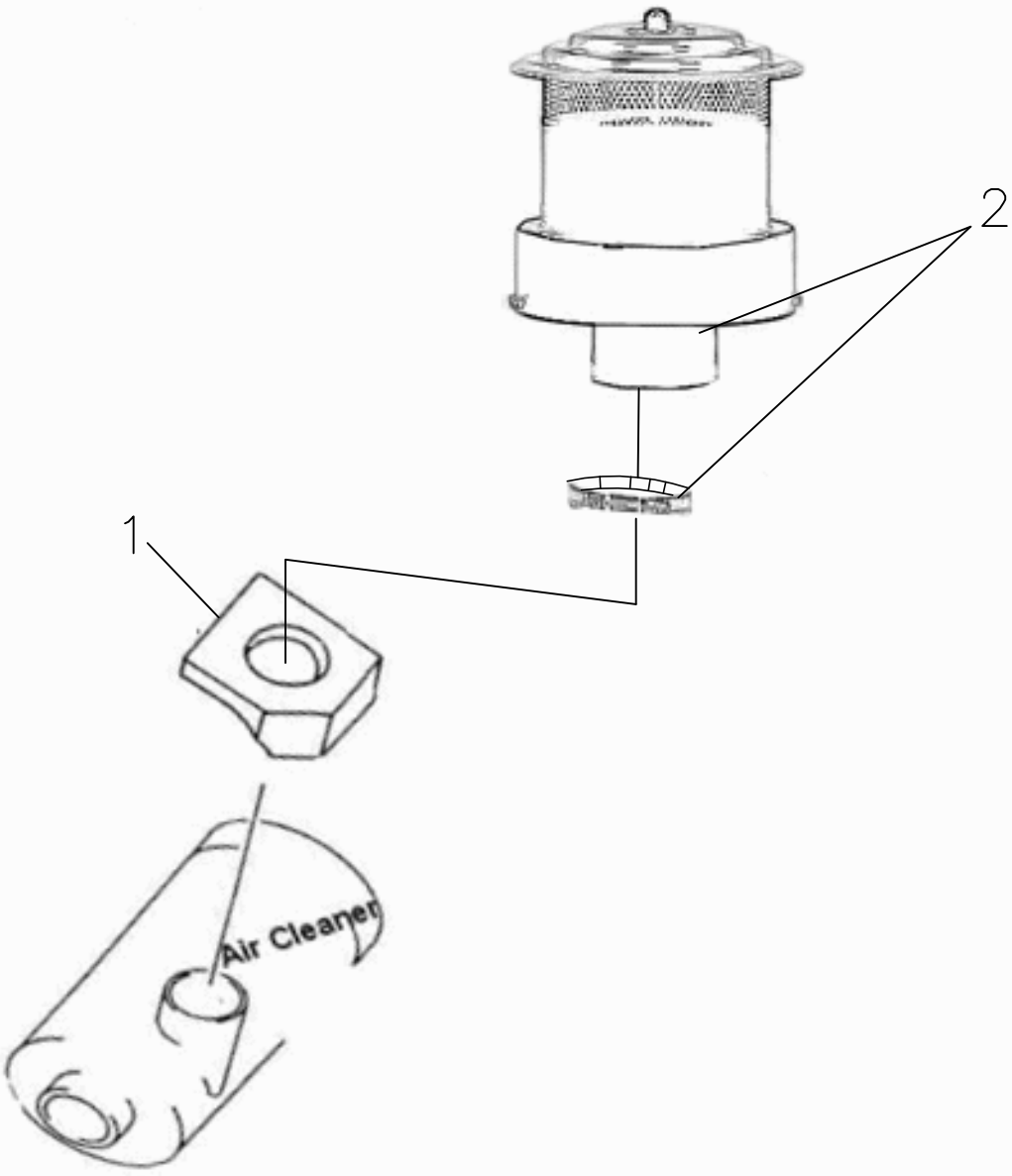
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	155 EI 02017	BRACKET	2	
02	156 EI 02056	BRACKET	1	
03	156 EI 02064	BRACKET	1	
04	155 EI 02009	CUSHION	4	
05	155 EI 11049	SPACER	4	
06	155 EI 11357	PIN	2	
07	155 EI 11381	PIN	1	
08	155 EI 11365	PIN	1	
09	155 EI 11373	PLATE	1	
10	CFS01 31635	SCREW	9	
11	CFW05 16045	WASHER	9	

FIG: 1010 DAMPER



ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 DA 91003	DAMPER	1	
02	CFS01 31020	SCREW	8	
03	CFW05 10032	WASHER	8	
04	156 EI 10001	PLATE	1	
05	CFS01 31640	SCREW	1	

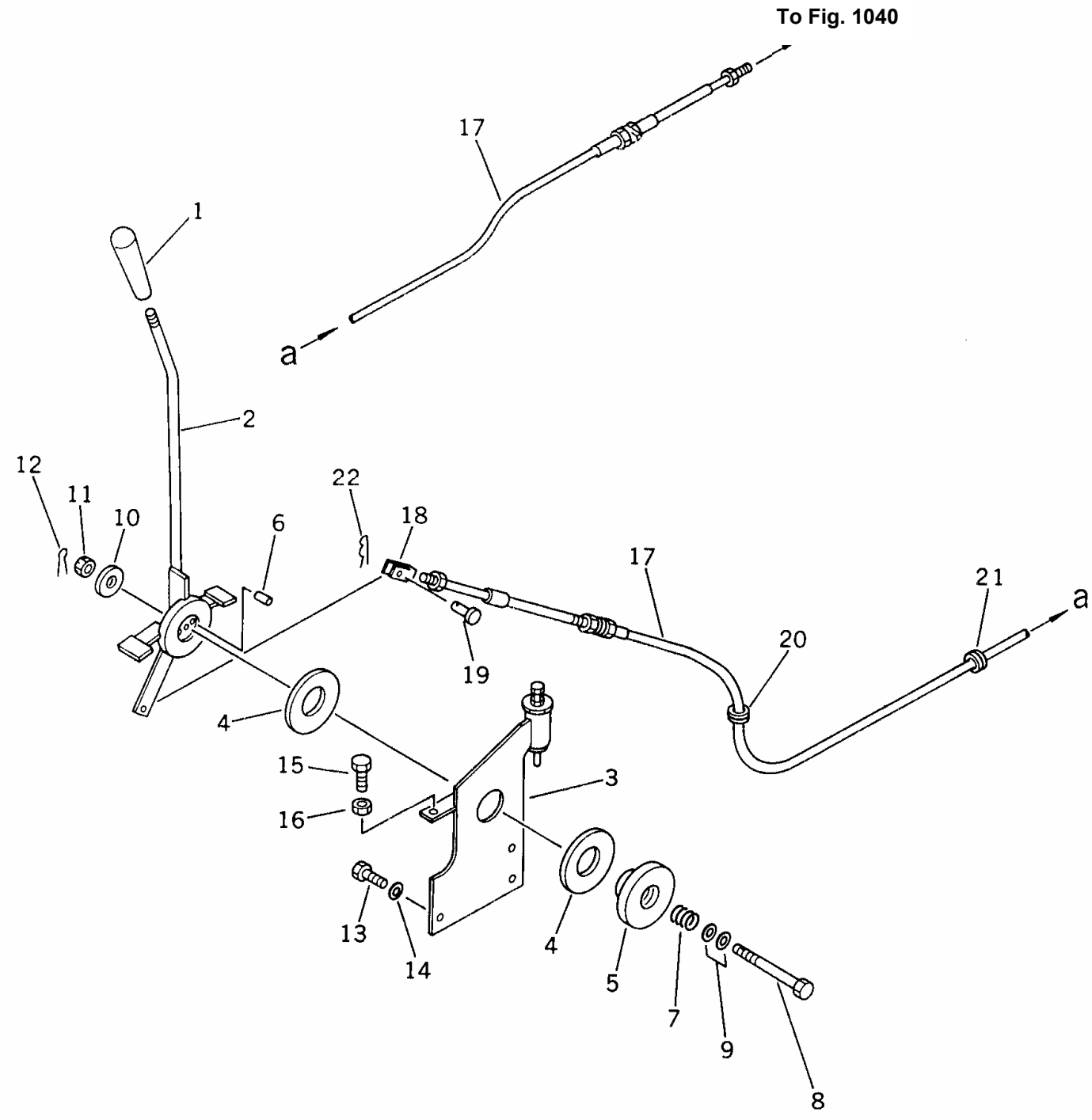
FIG: 1020 AIR INTAKE



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ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	155 EH 02444	SEAL	1	
02	156 EI 90039	PRE CLEANER	1	

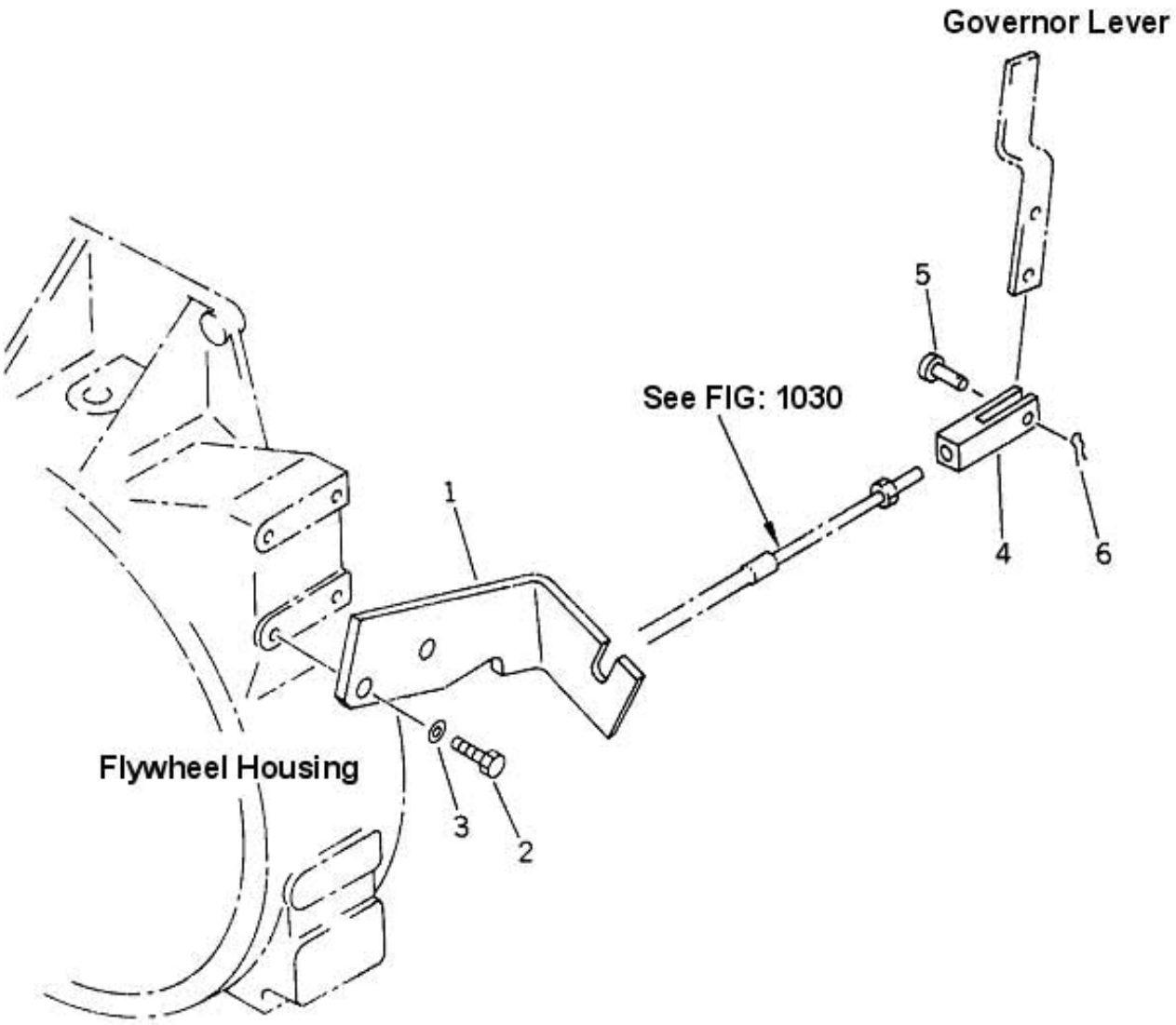
FIG. 1030 FUEL CONTROL LEVER



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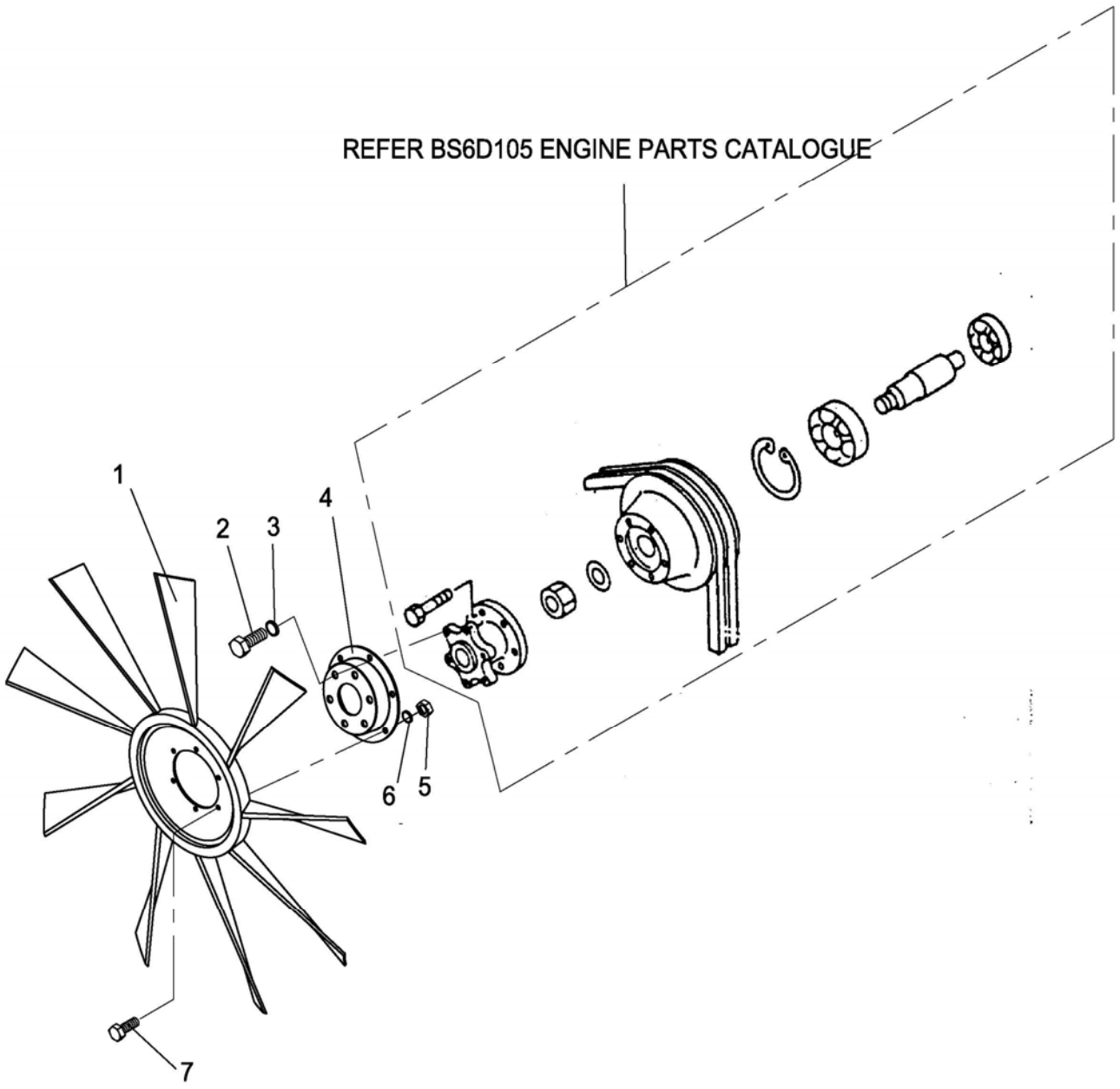
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
#	156 COB 0026	FUEL CONTROL KIT	1	
01	CDN01 01240	KNOB	1	
02	155 CO 02281	LEVER	1	
03	155 CO 02298	BRACKET	1	
04	155 CO 93894	FACING	2	
05	155 CO 14156	DISC	1	
06	CFP04 00616	PIN DOWEL	2	
07	155 CO 13921	SPRING	1	
08	CFB19 51265	BOLT	1	
09	CFW02 11225	WASHER	2	
10	155 CO 13905	COVER	1	
11	CFN36 11210	NUT	1	
12	CFP01 03232	PIN COTTER	1	
13	CFS01 31230	SCREW	3	
14	CFW05 12032	WASHER	3	
15	CFS01 31050	BOLT	1	
16	CFN01 21084	NUT	1	
17	156 CO 02077	CABLE	1	
18	CFY02 20634	YOKE	1	
19	CFP02 10618	PIN	1	
20	155 CO 64011	GROMMET	1	
21	CGR01 03620	GROMMET	1	
22	CFP11 00612	PIN SNAP	1	

FIG: 1040 FUEL CONTROL LINKAGE



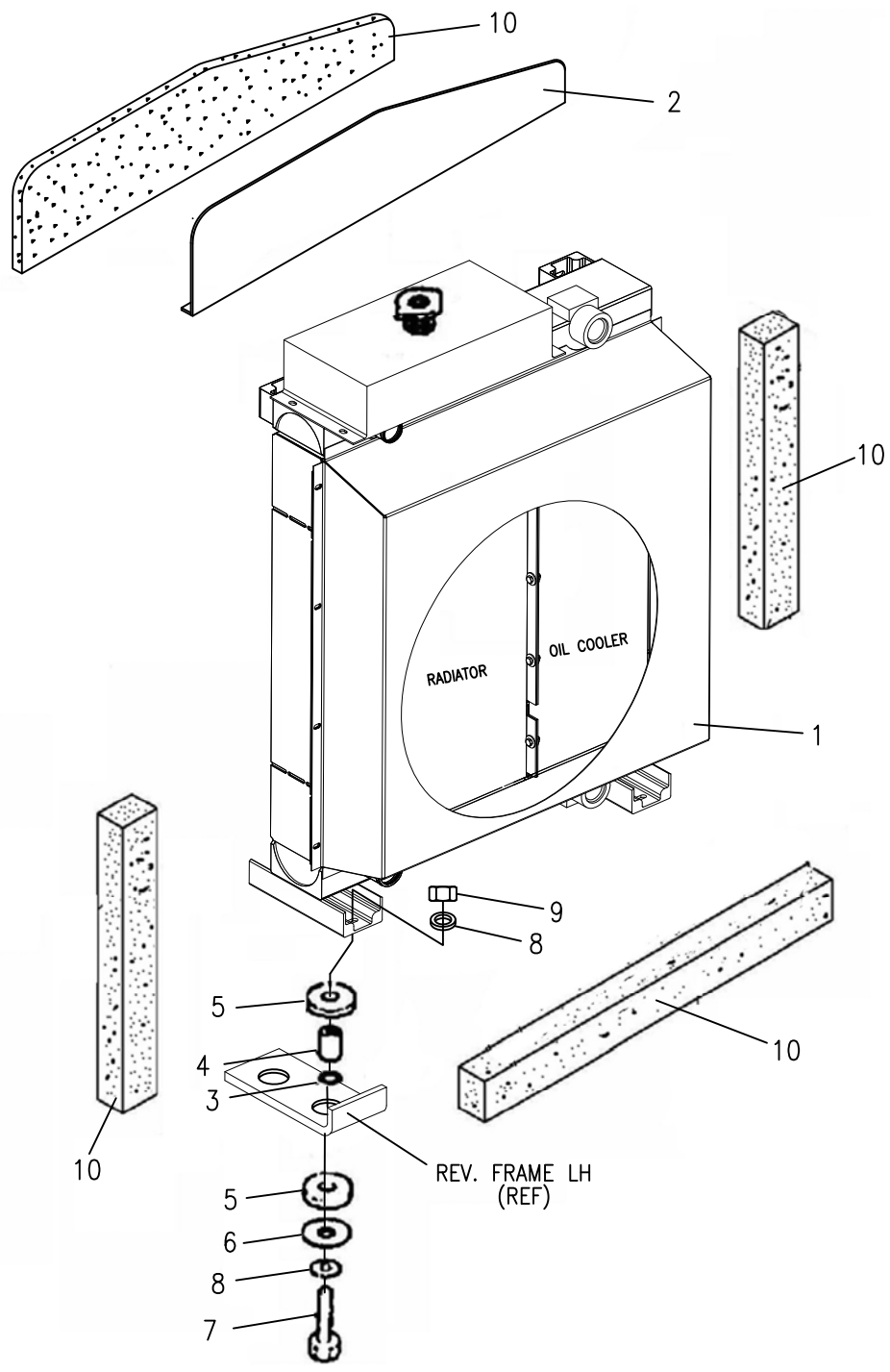
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	155 CO 94088	BRACKET	1	
02	CFS01 31230	SCREW	2	
03	CFW05 12032	WASHER	2	
04	155 CO 94096	YOKE	1	
05	CFP02 11028	PIN	1	
06	CFP11 01018	PIN,SNAP	1	

FIG: 1050 FAN ASSEMBLY



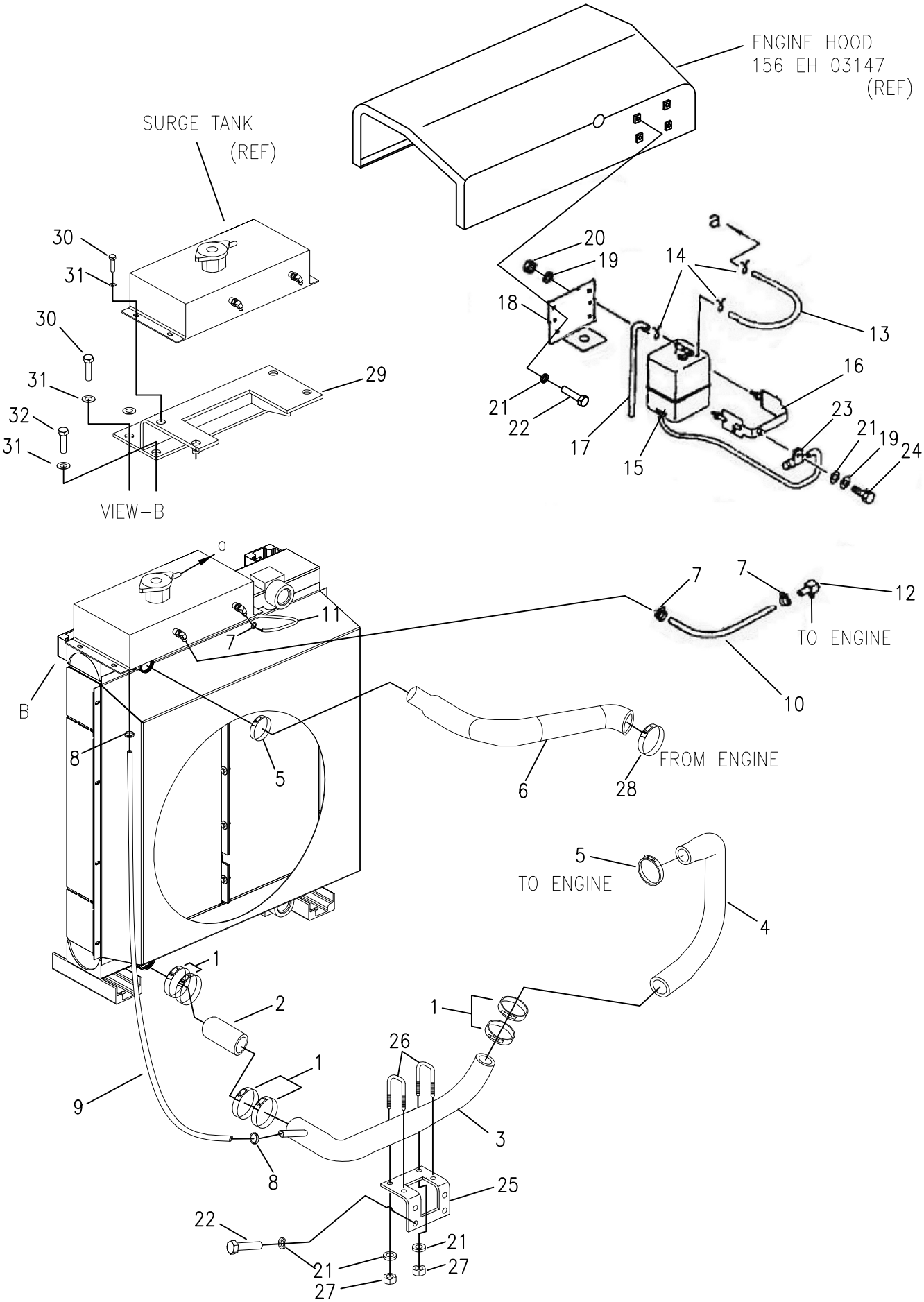
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 ZZ 11414	FAN	1	
02	CFS01 31020	SCREW	6	
03	CFW02 11020	WASHER	6	
04	156 ZZ 11422	ADAPTER(BORG FAN)	1	
05	CFN02 10868	NUT	6	
06	CFW02 10816	WASHER	6	
07	CFS01 30820	SCREW	6	

FIG. 1060 COMBI COOLER



ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
	156 EC 02023	COMBI COOLER ASSY	1	
01	156 EC 03117	.COOLER ASSY	1	
	156 EC 11282	..HYDRAULIC OIL COOLER	1	
	156 EC 11299	..RADIATOR	1	
02	156 EH 13912	.PLATE	1	
03	CHS01 13022	.O-RING	4	
04	155 EC 11819	.COLLAR	4	
05	155 EC 61837	.CUSHION	8	
06	155 EC 11827	.PLATE	4	
07	CFB01 21270	.BOLT	4	
08	CFW05 12032	.WASHER	8	
09	CFN01 21211	NUT	4	
10	156 EH 13897	SEALING FOAM	1	

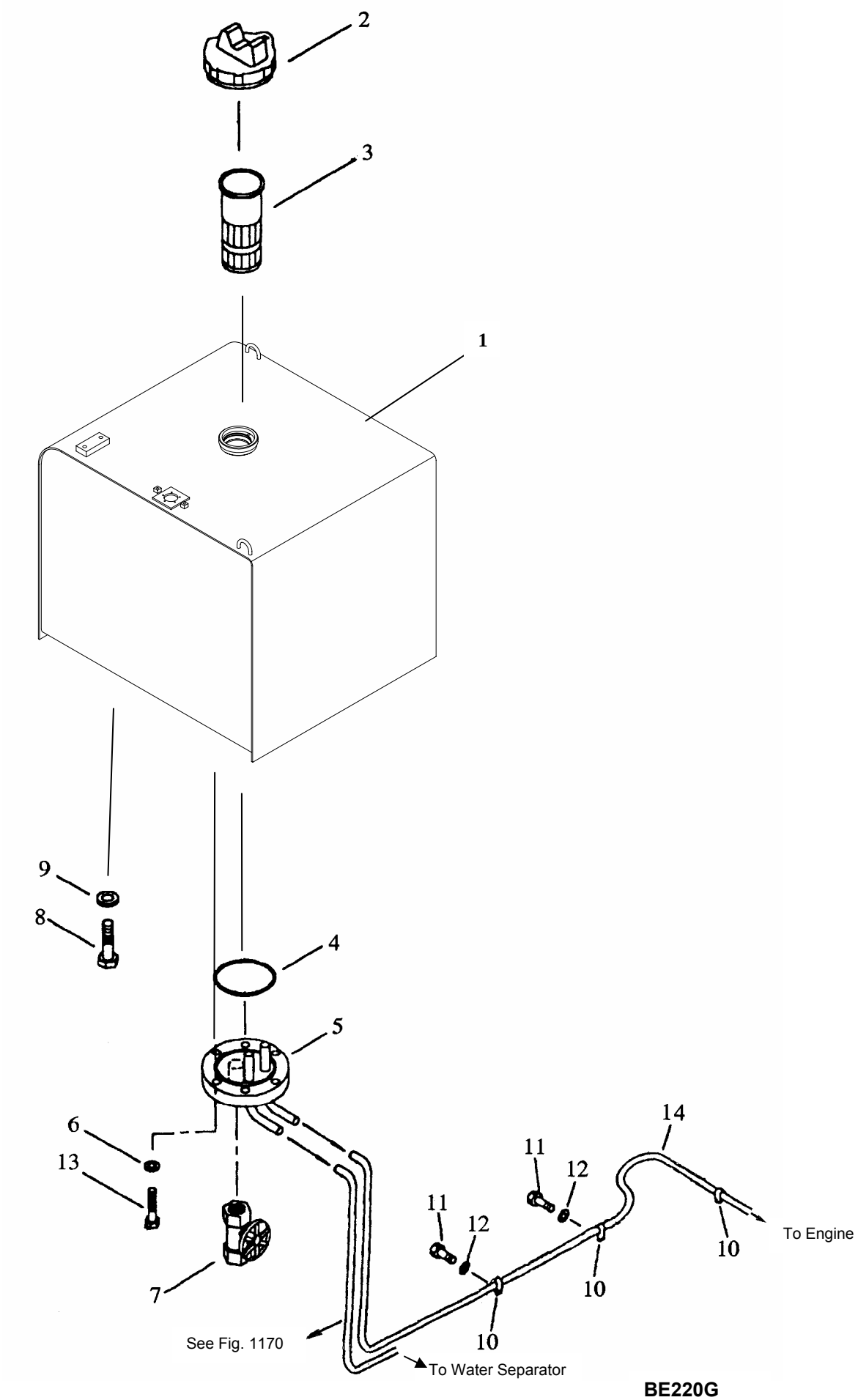
FIG. 1070 COMBI COOLER PIPING



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ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	CCC01 08020	CLAMP	6	
02	156 EC 61916	HOSE	1	
03	156 EC 03239	TUBE ASSY	1	
04	156 EC 61908	HOSE	1	
05	CCC01 02006	CLAMP	2	
06	156 EC 11485	HOSE	1	
07	CCC01 02006	CLAMP	5	
08	CCC01 03510	CLAMP	2	
09	CHH31 22012	HOSE	1	
10	09483 00308	HOSE	1	
11	09483 00305	HOSE	1	
12	155 EC 02066	ELBOW	1	
13	375 EC 91179	HOSE	1	
14	155 EC 11721	CLIP	3	
15	155 EC 02074	TANK RESERVE	1	
16	155 EC 02058	BAND	1	
17	155 EC 61731	HOSE	1	
18	156 EC 02072	BRACKET ASSY	1	
19	CFW05 08023	WASHER	3	
20	CFN01 20868	NUT	1	
21	CFW05 10032	WASHER	13	
22	CFS01 21016	SCREW	8	
23	CCC06 21814	CLIP	1	
24	CFS01 30816	SCREW	1	
25	156 EC 03166	PLATE	1	
26	CCC07 26155	CLAMP	2	
27	CFN28 21011	NUT	4	
28	CCC01 09020	CLAMP	1	
29	156 EC 03222	BRACKET	1	
30	CFS01 21025	SCREW	6	
31	CFW05 06023	WASHER	8	
32	CFS01 21020	SCREW	2	

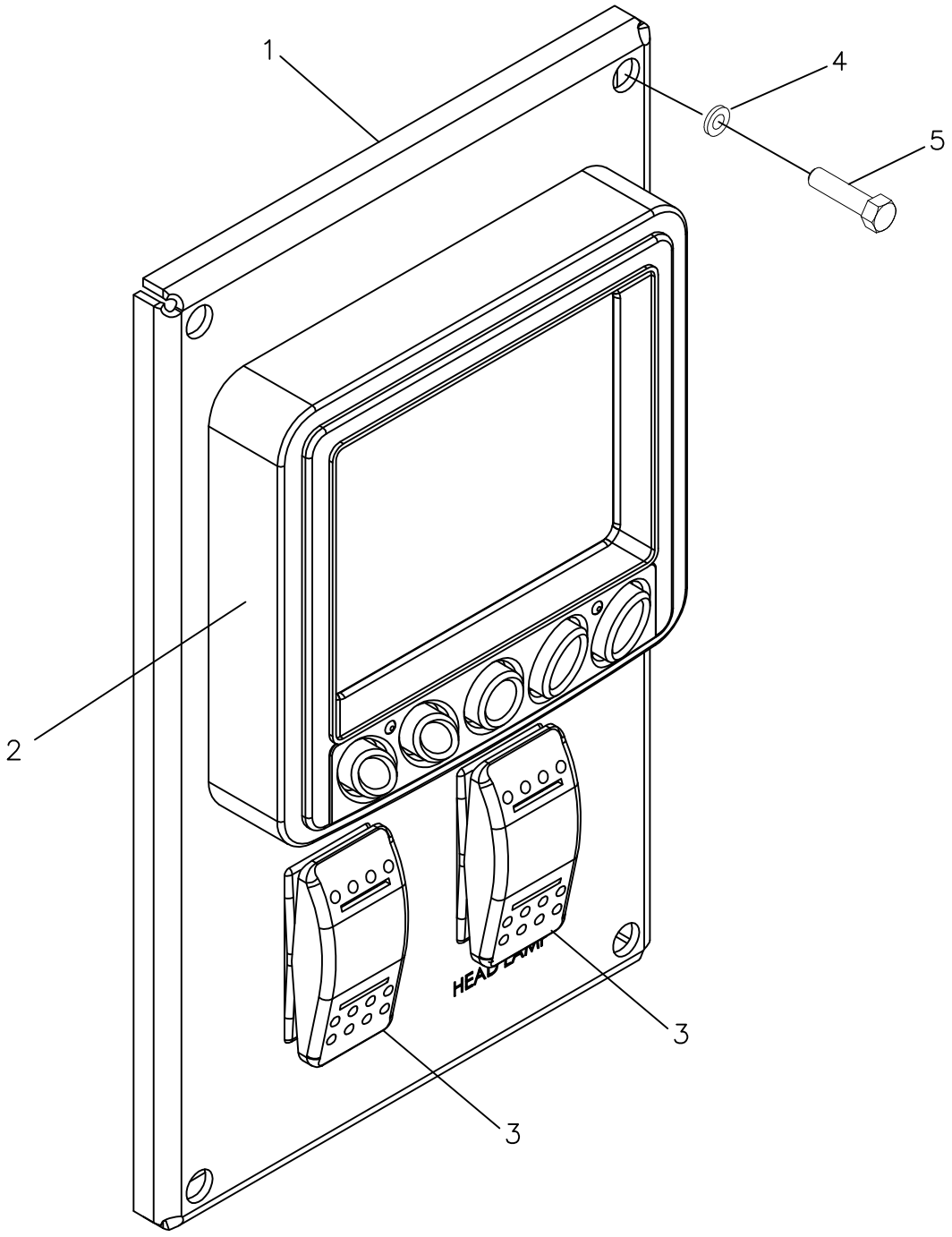
FIG. 1080 FUEL TANK



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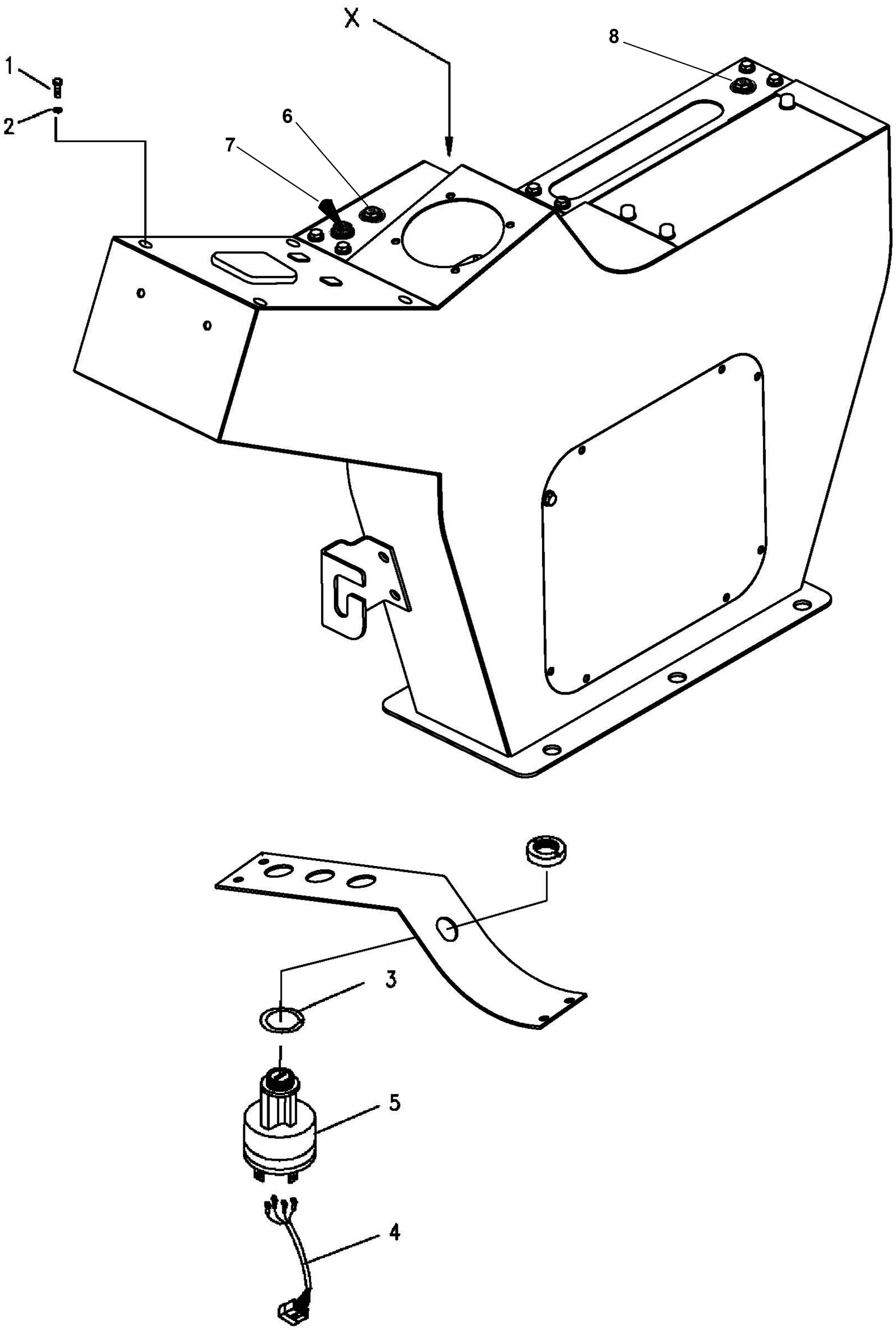
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
	154 FL 01008	FUEL TANK ASSY	1	
01	154 FL 02004	.TANK	1	
02	CCP04 21200	.CAP	1	
03	CFF01 08420	.STRAINER	1	
04	CHS01 15170	.O RING	1	
05	155 FL 02051	.FLANGE	1	
06	CFW05 12032	.WASHER	6	
07	125 FL 91006	.VALVE	1	
08	CFS01 31635	.SCREW	4	
09	CFW05 16045	.WASHER	4	
10	CCC06 01814	.CLIP	4	
11	CFS01 31220	.SCREW	4	
12	CFW05 12032	.WASHER	4	
13	CFS01 31235	.SCREW	6	
14	155 FL 91371	.HOSE	2	

FIG. 1095 MONITOR PANEL RELATED PARTS



ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 IP 11146	MURPHY PANEL PLATE	1	
02	156 IP 81155	PV380 PANEL	1	
03	953 EG 82364	HEAD LAMP SWITCH	2	
04	CFW03 10616	WASHER PLAIN	4	
05	CFS15 10625	SCREW	4	

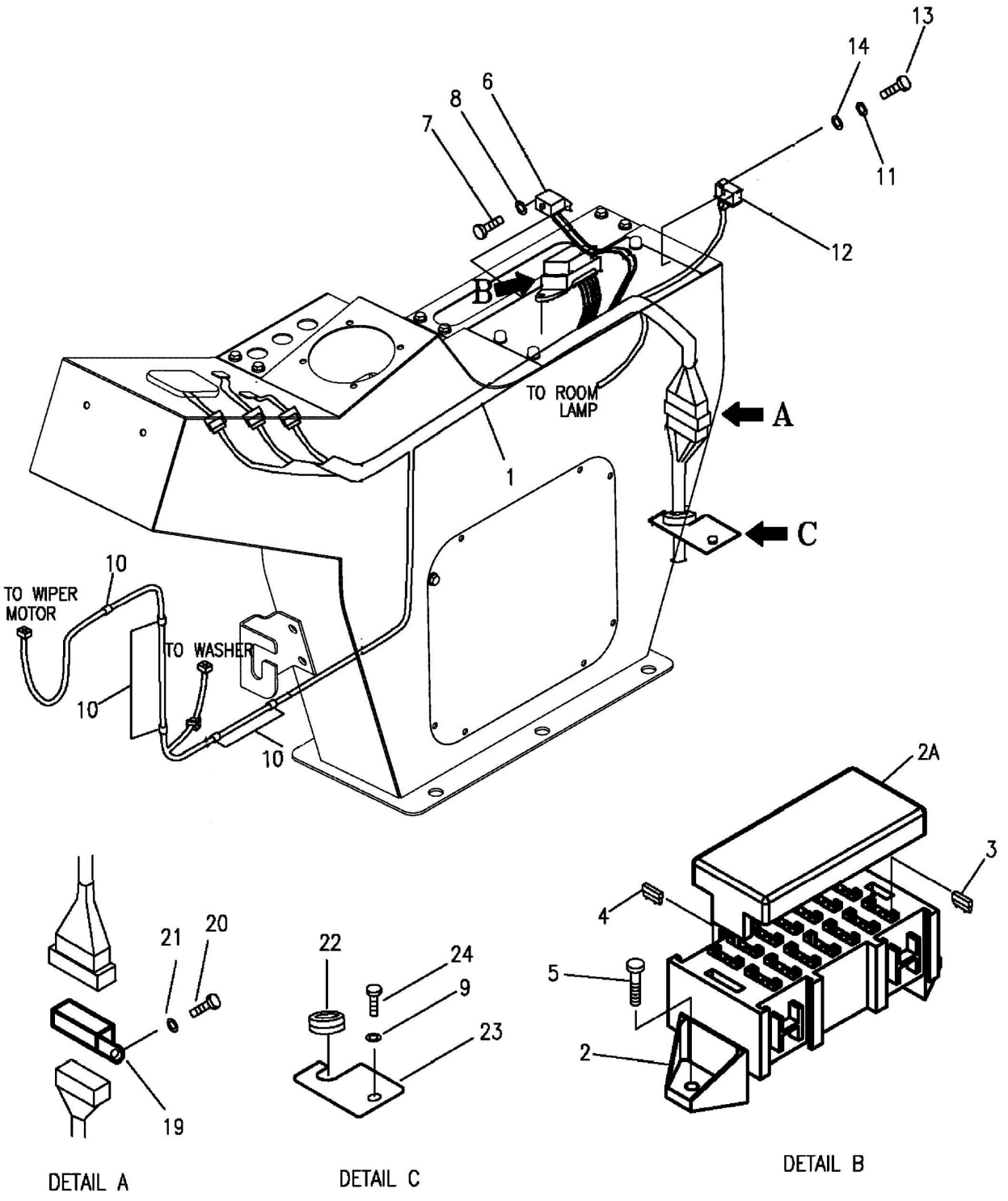
FIG 1105 INSTRUMENT PANEL (1/2)



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ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	CFS15 10625	SCREW	4	
02	CFW03 10616	WASHER	4	
03	CGR05 01610	CAP	2	
04	156 EW 02207	WIRE HARNESS, KEY SW	1	
05	CEK01 20000	KEY SWITCH	1	
06	113 EC 91119	CHARGE LAMP INDICATOR	1	
07	155 EG 82551	TOGGLE SWITCH	1	
08	155 IP 81027	PUSH BUTTON	1	

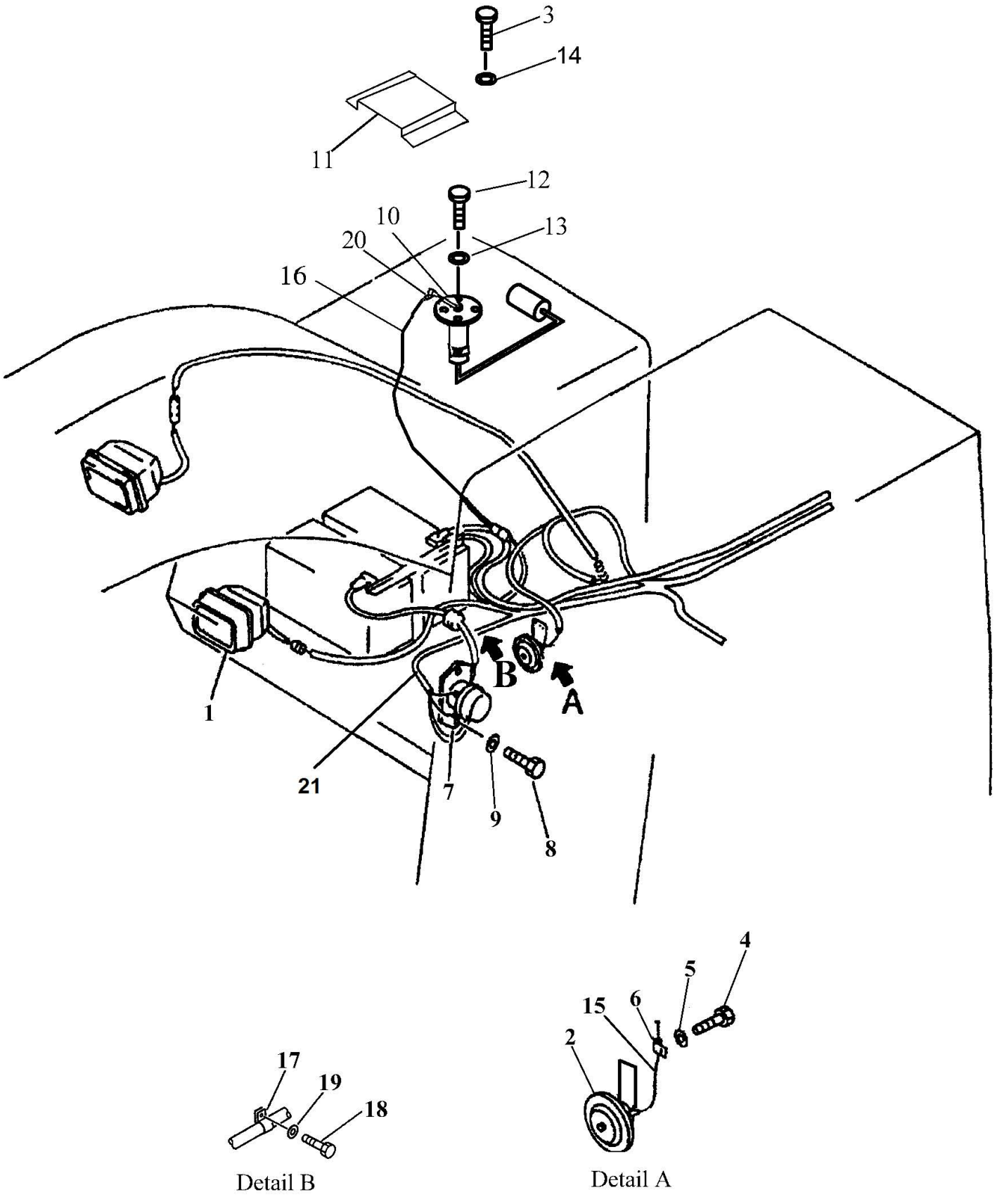
FIG 1115 INSTRUMENT PANEL (2/2)



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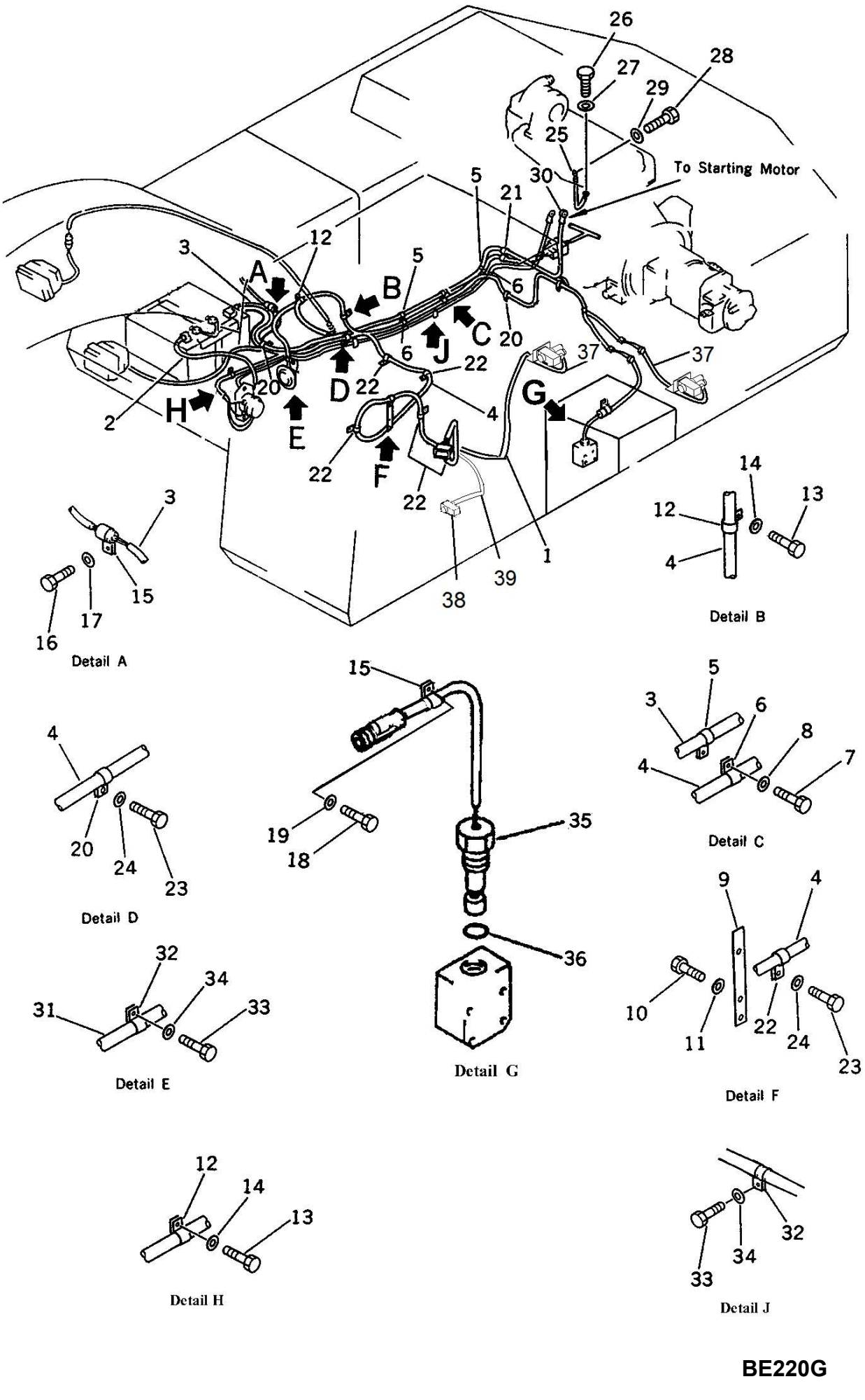
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 EW 02304	WIRE HARNESS, PANEL	1	
02	125 EG 91753	.FUSE BOX	1	
02A	125 EG 91761	.FUSE BOX COVER	1	
03	CEF02 00150	.FUSE 15A	7	
04	CEF02 00200	.FUSE 20A	2	
05	CFS15 10616	SCREW	2	
06	130 EG 81959	BUZZER	1	
07	CFS15 10412	SCREW	2	
08	CFW02 10408	WASHER	2	
09	CFW05 10032	WASHER	2	
10	155 CC 02419	CLIP	9	
11	CFW01 10619	WASHER, SPRING	1	
12	155 EG 81928	HORN RELAY	1	
13	CFS15 10616	SCREW	1	
14	CFW05 06023	WASHER	1	
15	171 EG 11264	COVER	1	
16	CFS15 10410	SCREW	4	
17	CFW01 10410	WASHER SPRING	4	
18	CFW03 10408	WASHER	4	
19	155 EG 92303	CLIP	1	
20	CFS01 31220	SCREW	1	
21	CFW05 12032	WASHER	1	
22	155 EG 61904	GROMMET	1	
23	155 EG 11895	COVER	1	
24	CFS01 31025	SCREW	2	

FIG: 1120 ELECTRICAL SYSTEM (RELATED PARTS)



ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	CEL11 12412	HEAD LAMP	1	
	CEL25 12470	.LAMP, HALOGEN	1	P45t,75/70
02	CEH02 24120	HORN	1	
03	CFS01 30810	SCREW	2	
04	CFS01 30820	SCREW	1	
05	CFW05 08023	WASHER	1	
06	CCC06 10810	CLIP	1	
07	42106 11930	RELAY BATTERY	1	
08	CFS01 30820	SCREW	2	
09	CFW05 08023	WASHER	2	
10	155 EG 82495	FUEL LEVEL SENSOR	1	
11	782 EG 11635	COVER PLATE	1	
12	CFS01 20512	SCREW	5	
13	CFW02 10510	WASHER	5	
14	CFW05 08023	WASHER	2	
15	125 EW 02711	WIRE HARNESS	1	
16	156 EW 02248	WIRE HARNESS	1	
17	CCC06 01214	CLIP	1	
18	CFS01 31225	SCREW	1	
19	CFW05 12032	WASHER	1	
20	155 CC 02419	CLIP	1	
21	156 EW 02337	WIRE HARNESS	1	

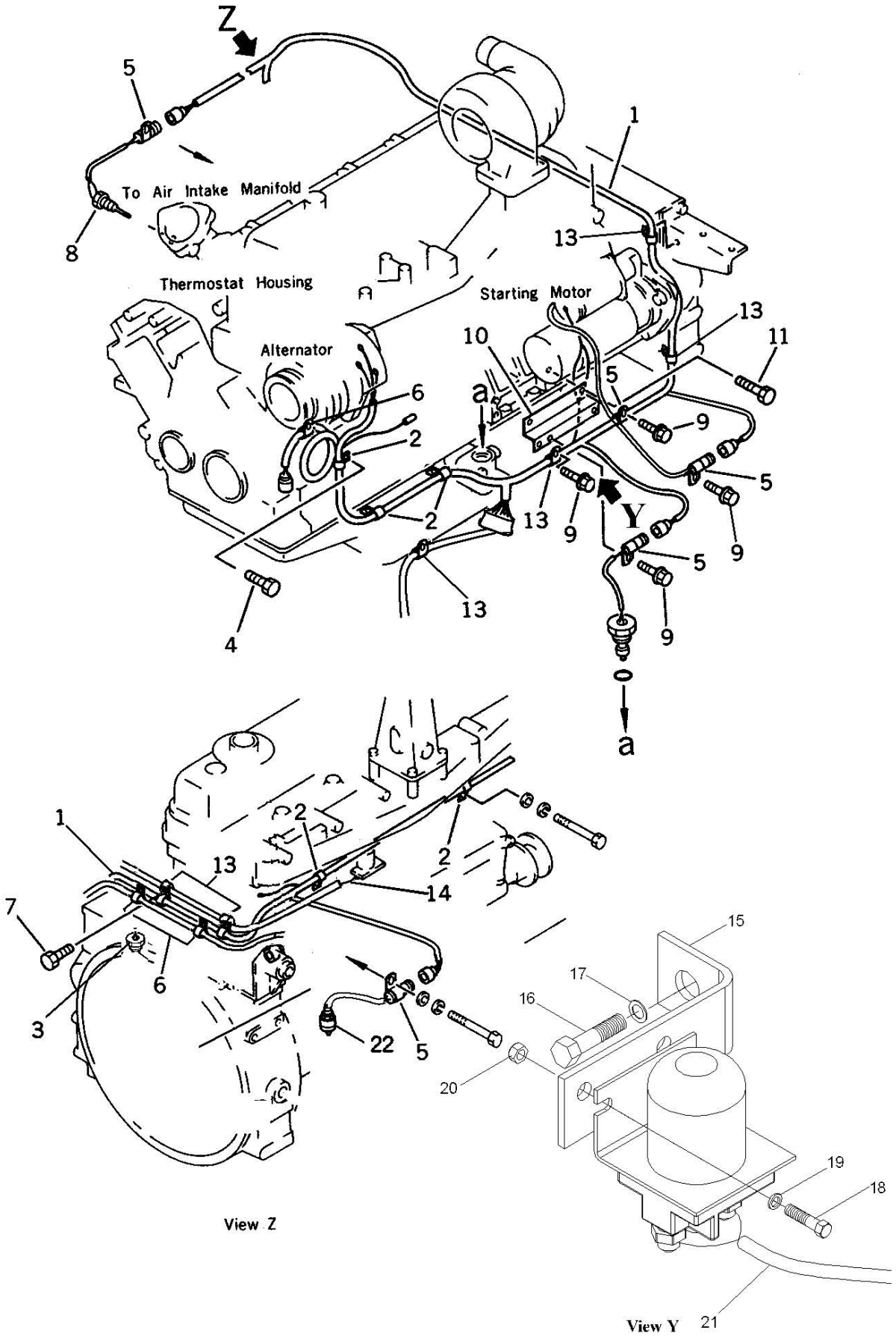
FIG: 1130 ELECTRICAL SYSTEM (WIRING) (1/2)



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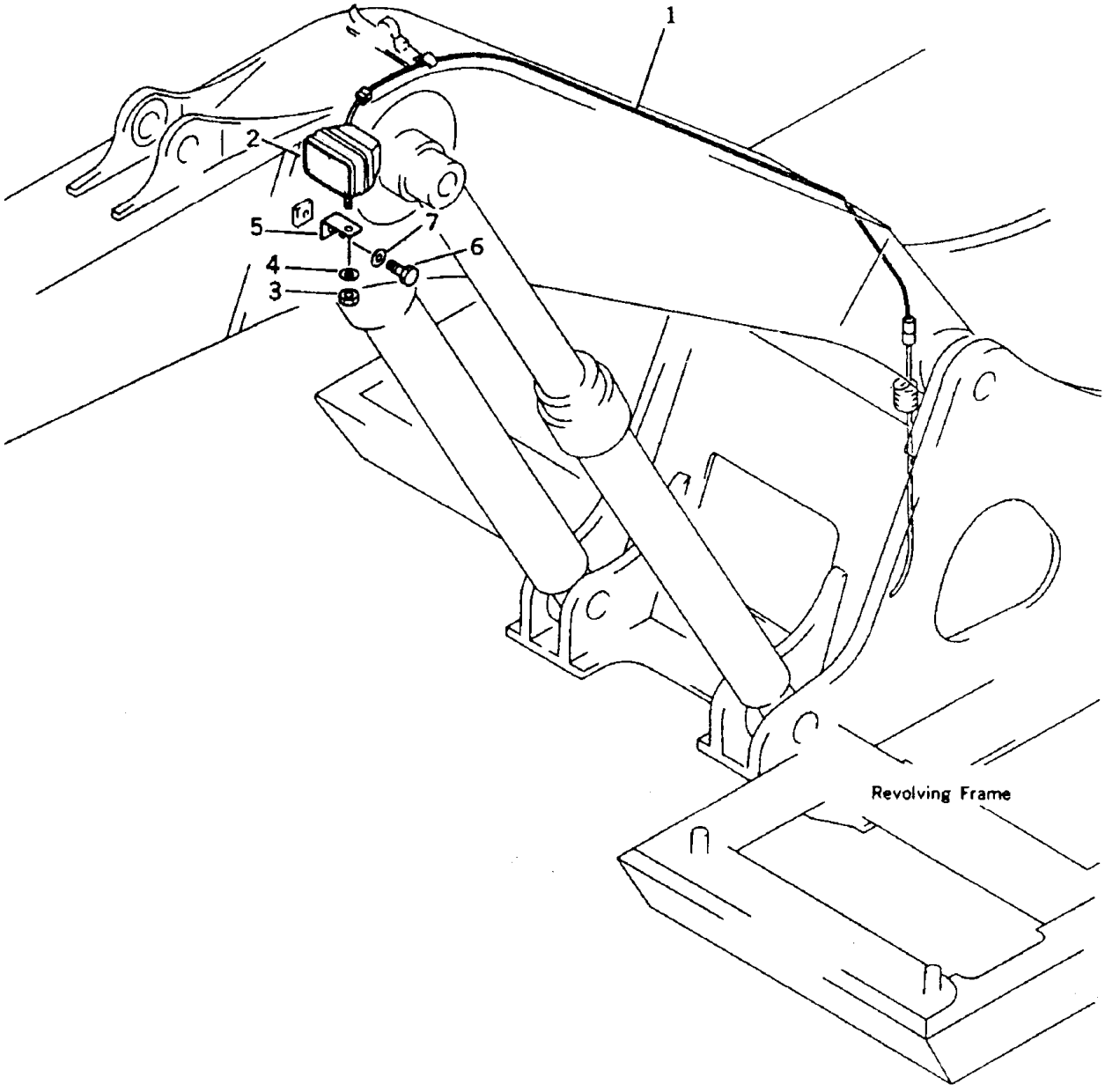
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 EW 02289	WIRE HARNESS	1	
02	CEW03 41606	CABLE ASSY	1	
03	CEW03 41639	CABLE ASSY	1	
04	156 EW 02312	WIRE HARNESS	1	
05	CCC06 01814	CLIP	3	
06	CCC06 01814	CLIP	3	
07	CFS01 31225	SCREW	3	
08	CFW05 12032	WASHER	3	
09	155 EG 02028	PLATE	1	
10	CFS01 31225	SCREW	2	
11	CFW05 12032	WASHER	2	
12	CCC06 01214	CLIP	3	
13	CFS01 31225	SCREW	4	
14	CFW05 12032	WASHER	4	
15	CCC06 01814	CLIP	1	
16	CFS01 31016	SCREW	1	
17	CFW05 10032	WASHER	1	
18	CFS01 31225	SCREW	1	
19	CFW05 12032	WASHER	1	
20	CCC06 02514	CLIP	2	
21	CCC06 01814	CLIP	2	
22	CCC06 02514	CLIP	6	
23	CFS01 31225	SCREW	11	
24	CFW05 12032	WASHER	11	
25	CEW03 42604	CABLE ASSY	1	
26	CFS01 31025	SCREW	1	
27	CFW05 10032	WASHER	1	
28	CFS01 30816	SCREW	1	
29	CFW05 08023	WASHER	1	
30	CEC03 00035	CAP	1	
31	CEW03 42636	CABLE ASSY	1	
32	CCC06 01814	CLIP	6	
33	CFS01 31225	SCREW	6	
34	CFW05 12032	WASHER	6	
35	156 EG 81001	LEVEL SWITCH	1	
36	CHS03 13634	O RING	1	
37	156 EW 02345	WIRE HARNESS	2	
38	125 EG 91672	LIMIT SWITCH	1	
39	156 EW 02272	WIRE HARNESS	1	

FIG: 1140 ELECTRICAL SYSTEM (WIRING) (2/2)



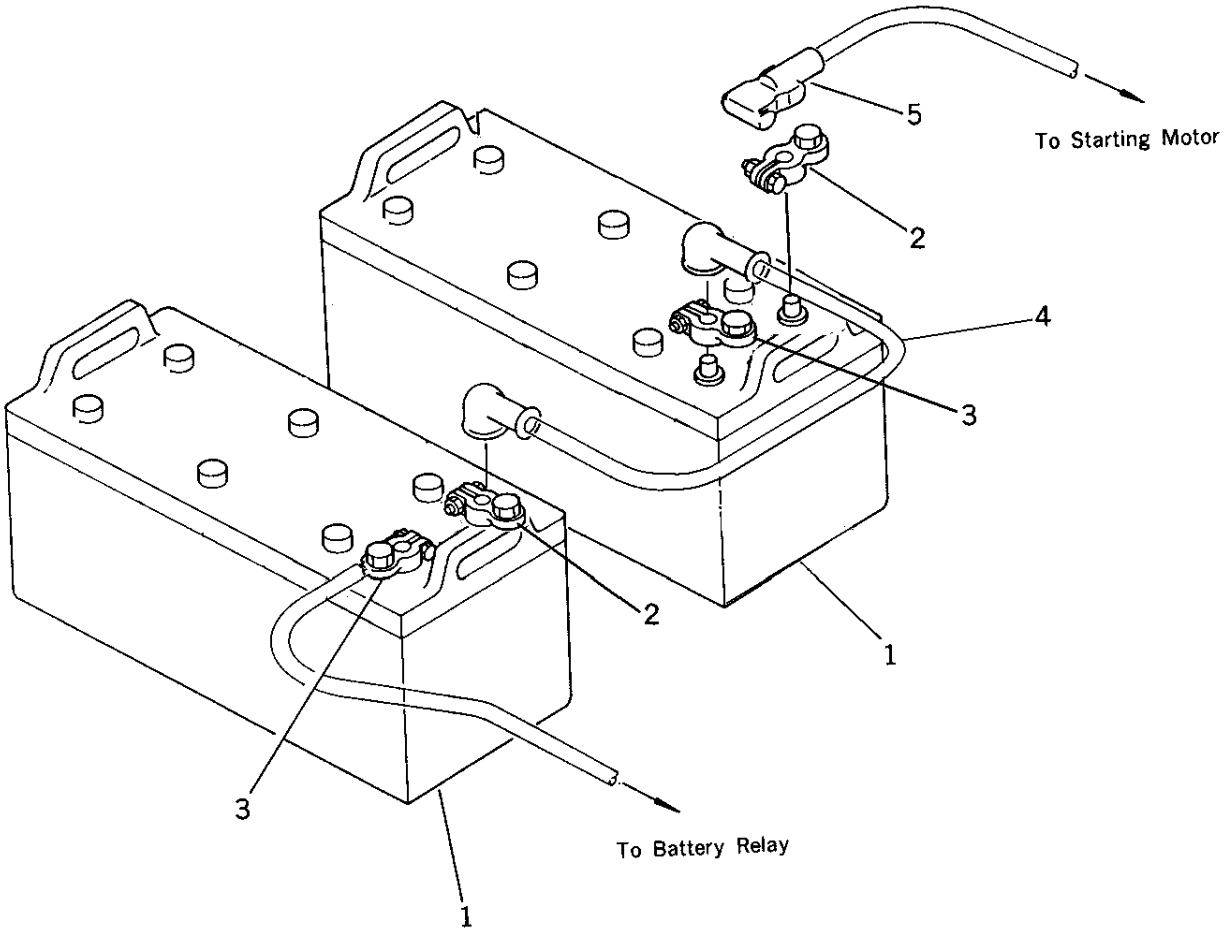
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 EW 02329	WIRE HARNESS	1	
02	CCC06 01814	CLIP	7	
03	78619 22330	SPEED SENSOR	1	
04	ZFB46 11020	BOLT	1	
05	CCC12 01711	CLIP	4	
06	CCC06 01214	CLIP	3	
07	ZFB46 11220	BOLT	2	
08	130 EG 81212	TEMPERATURE SENSOR	1	
09	ZFB46 10812	BOLT	4	
10	155 EG 12526	PLATE	1	
11	ZFB46 11220	BOLT	2	
12	CCC10 00414	BAND	2	
13	CCC06 01814	CLIP	7	
14	156 EW 02223	WIRE HARNESS	1	OPTIONAL
15	761 EG 12185	PLATE	1	
16	CFS01 31016	SCREW	1	
17	CFW05 10032	WASHER	1	
18	CFS02 10412	SCREW	2	
19	CFW01 10410	SPRING WASHR	2	
20	CFN01 10432	NUT	2	
21	156 EW 02215	WIRE HARNESS	1	
22	125 EG 82179	PRESSURE SENSOR	1	

FIG: 1150 ELECTRICAL SYSTEM (WIRING) (ATTACHMENT SIDE)



ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 EW 02297	WIRE HARNESS	1	
02	CEL11 12412	WORK LAMP	1	
	CEL25 12470	.LAMP, HALOGEN	1	P45t, 75/7
03	CFN19 41411	NUT	1	
04	CFW01 11442	WASHER	1	
05	155 EG 11262	PLATE	1	
06	CFB07 21430	BOLT	1	
07	CFW05 14045	WASHER	1	

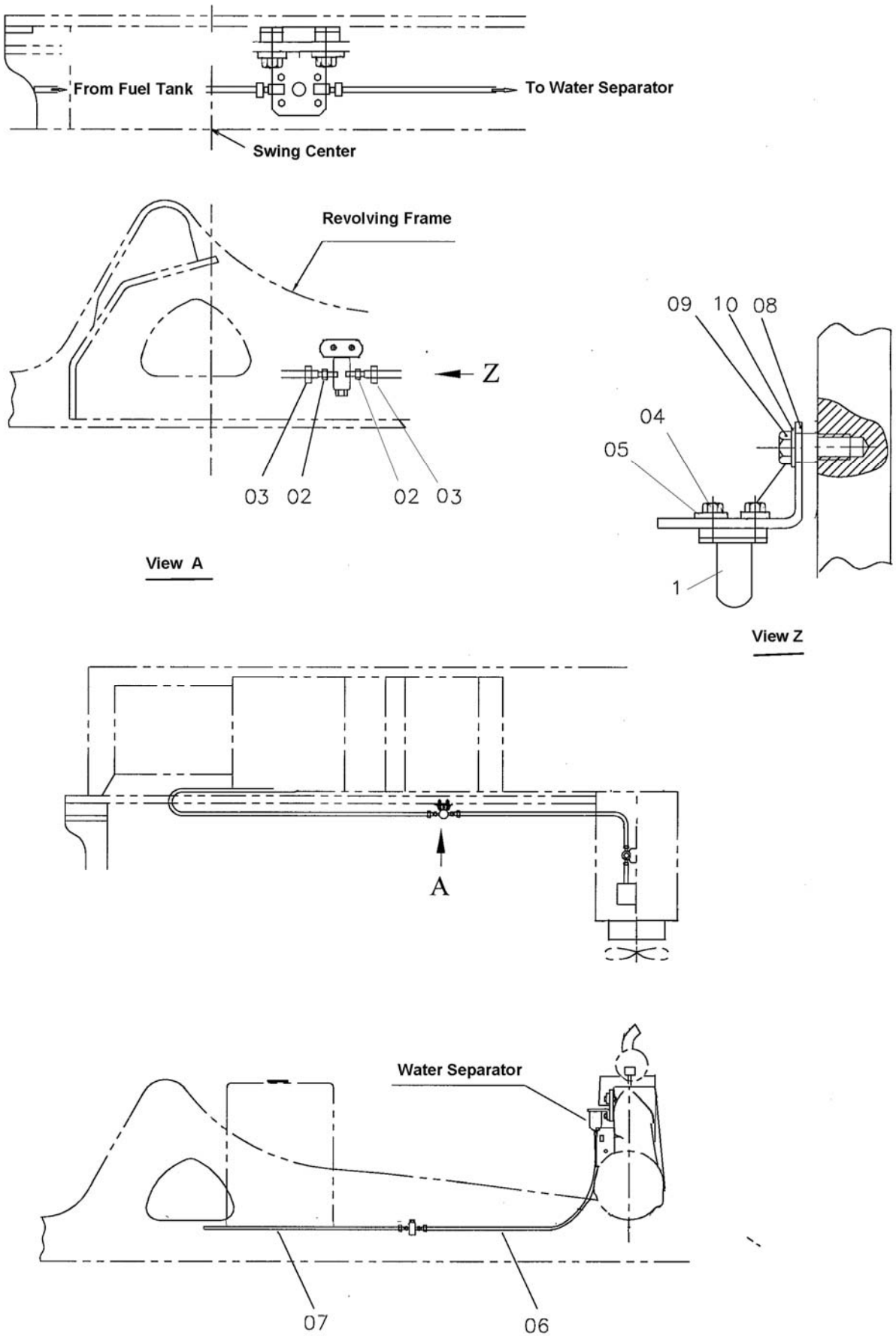
FIG 1160 BATTERY



BE220G

ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	CEB01 11151	BATTERY	2	
02	CET04 01175	TERMINAL +VE	2	
03	CET04 02160	TERMINAL -VE	2	
04	CEW03 42603	CABLE ASSY	1	
05	CEC03 22511	CAP	4	
12	CFW01 11236	SPRING WASHER	2	

FIG. 1170 FUEL STRAINER

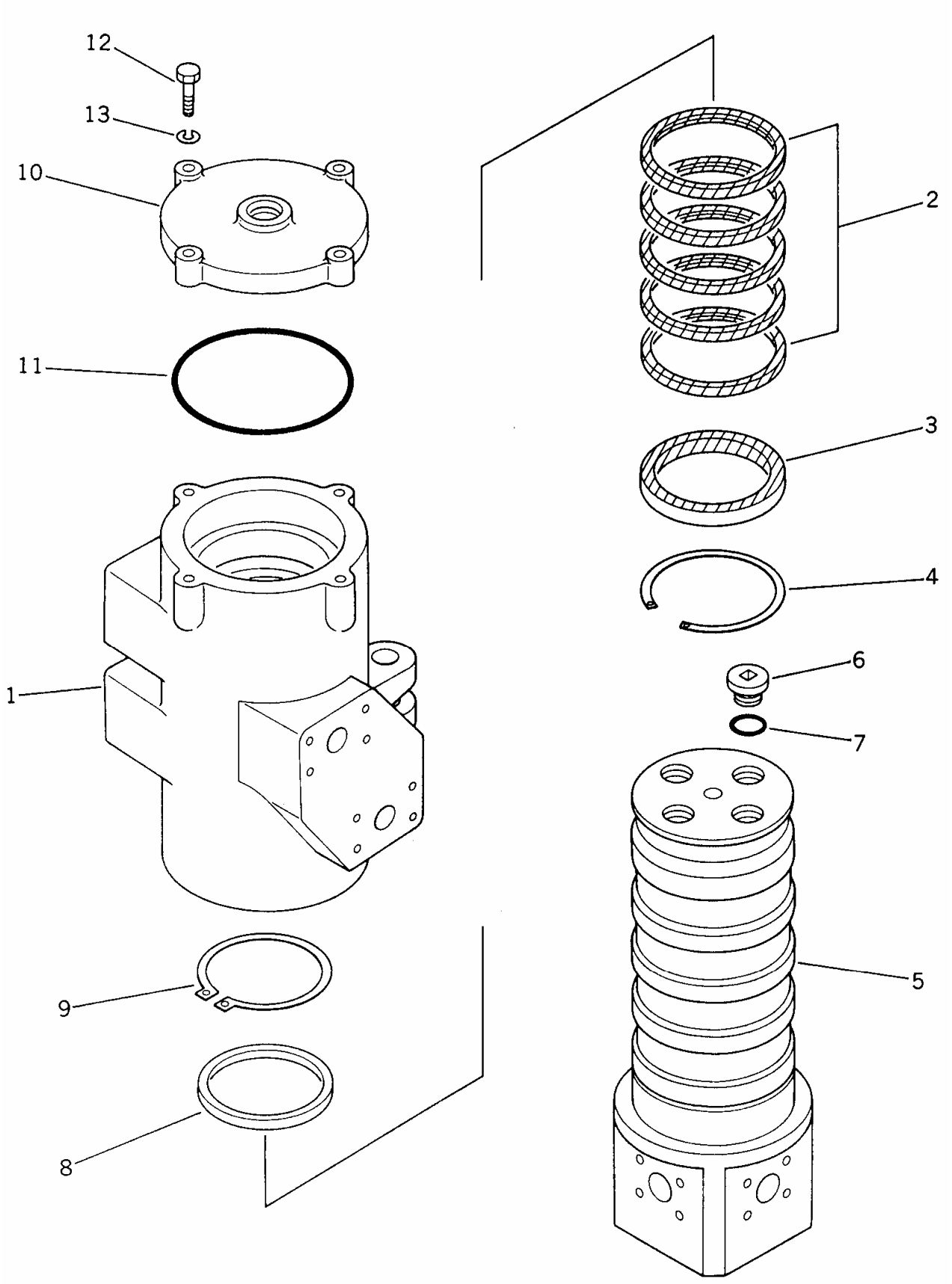


ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	125 FL 92668	HEAD AND FUEL FILTER	1	
02	764 FL 02012	END FITTING	2	
03	CCC01 02006	CLAMP	2	
04	CFS01 21040	SCREW	4	
05	CFW01 11030	SPRING WASHER	4	
06	155 FL 91355	HOSE	1	
07	155 FL 91347	HOSE	1	
08	817 FL 10085	BRACKET	1	
09	CFS01 21635	SCREW	2	
10	CFW05 16045	SPRING WASHER	2	

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II. TRAVEL AND FINAL DRIVE

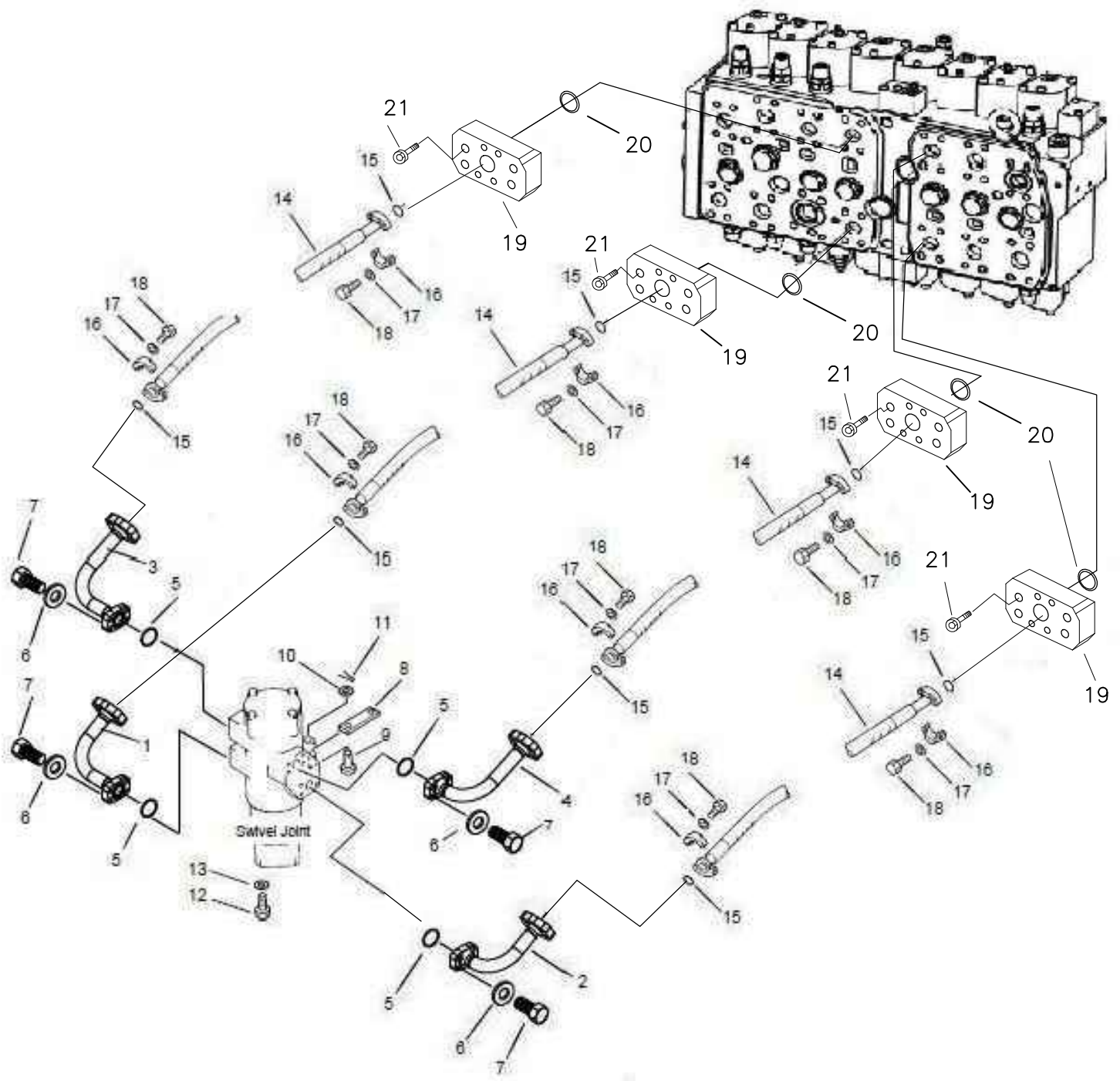
FIG: 2080 SWIVEL JOINT



BE220G

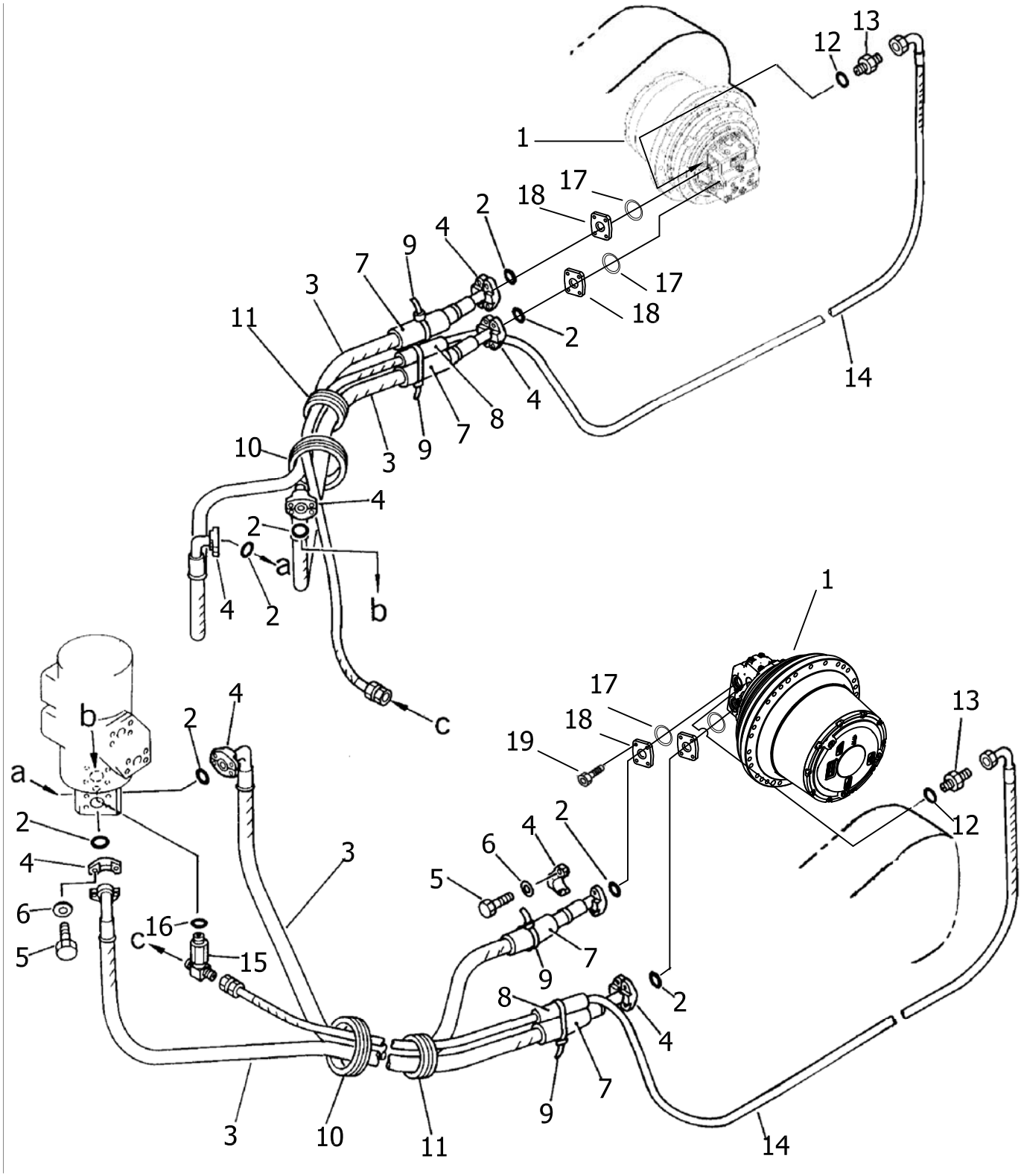
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
	155 HS 01012	SWIVEL JOINT ASSY	1	
01	155 HS 42559	.ROTOR SWIVEL	1	
02	155 HS 62622	.SEAL SLIPPER	5	K4
03	155 HS 92617	.SEAL OIL	1	K4
04	CFL06 10110	.RING SNAP	1	K4
05	155 HS 52579	.SHAFT SWIVEL	1	
06	CPL06 12414	.PLUG	4	
07	CHS03 12434	.O RING	4	K4
08	155 HS 12604	.RING	1	
09	CFL01 18530	.RING SNAP	1	K4
10	155 HS 42591	.COVER	1	
11	CHS01 12115	.O RING	1	
12	CFB01 20835	.BOLT	4	
13	CFW01 10825	.WASHER SPRING	4	
	#155 HS 00018	SEAL KIT(K4)	1	

FIG. 2090 HYDRAULIC PIPING (C. VALVE TO/FROM SWIVEL JOINT)



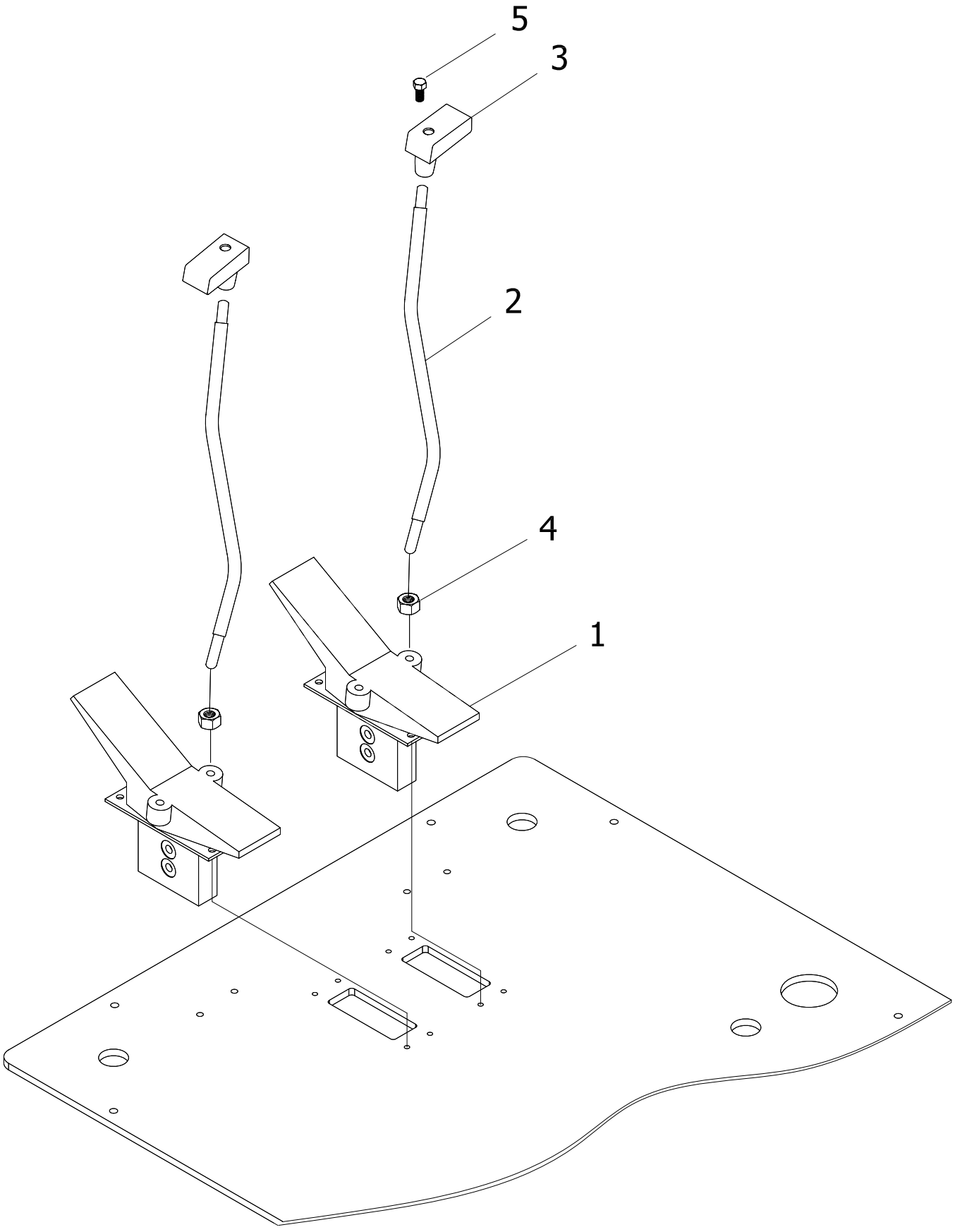
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 PM 02192	TUBE ASSY.	1	
02	156 PM 02208	TUBE ASSY.	1	
03	156 PM 02216	TUBE ASSY.	1	
04	156 PM 02224	TUBE ASSY.	1	
05	155 PH 61927	O-RING	4	
06	CFW05 08023	WASHER	16	
07	CFS01 30830	SCREW	16	
08	155 PH 12005	PLATE	1	2096214430
09	155 PH 11958	PIN	1	
10	CFW02 11630	WASHER	2	
11	CFP01 04025	PIN COTTER	2	
12	CFS01 31230	SCREW	4	
13	CFW05 12032	WASHER	4	
14	156 PM 90483	HOSE	4	
15	156 PM 60512	O-RING	8	
16	156 PM 10535	SPLIT FLANGE	16	
17	CFW06 10032	WASHER	32	
18	CFB27 11030	BOLT	32	
19	781 PH 11173	BLOCK	4	
20	CHS01 13035	O RING	4	
21	CFS13 31230	ALLEN SCREW	16	

FIG. 2100 HYDRAULIC PIPING (FROM SWIVEL JOINT TO TRAVEL MOTOR)



ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 FD 02303	TRAVEL MOTOR ASSY	2	
02	CHS01 13025	O RING	8	
03	CHH28 01222	HOSE	4	
04	CFG03 12039	SPLIT FLANGE	16	
05	CFS01 30830	SCREW	32	
06	CFW06 08023	WASHER	32	
07	155 PH 02512	COVER	4	
08	135 PH 61008	COVER	2	
09	CCC10 00536	BAND	4	
10	155 PH 73267	GROMMET	2	
11	155 PH 73178	GROMMET	2	
12	136 PH 22037	SEALING WASHER	2	
13	474 PH 12486	ADAPTOR	2	
14	155 PH 93914	HOSE	2	
15	155 PH 02489	TEE	1	
16	CHS03 12034	O RING	1	
17	CHS01 13035	O RING	4	
18	156 PM 12399	ADAPTOR PLATE	4	
19	CFS13 11030	ALLEN SCREW	16	

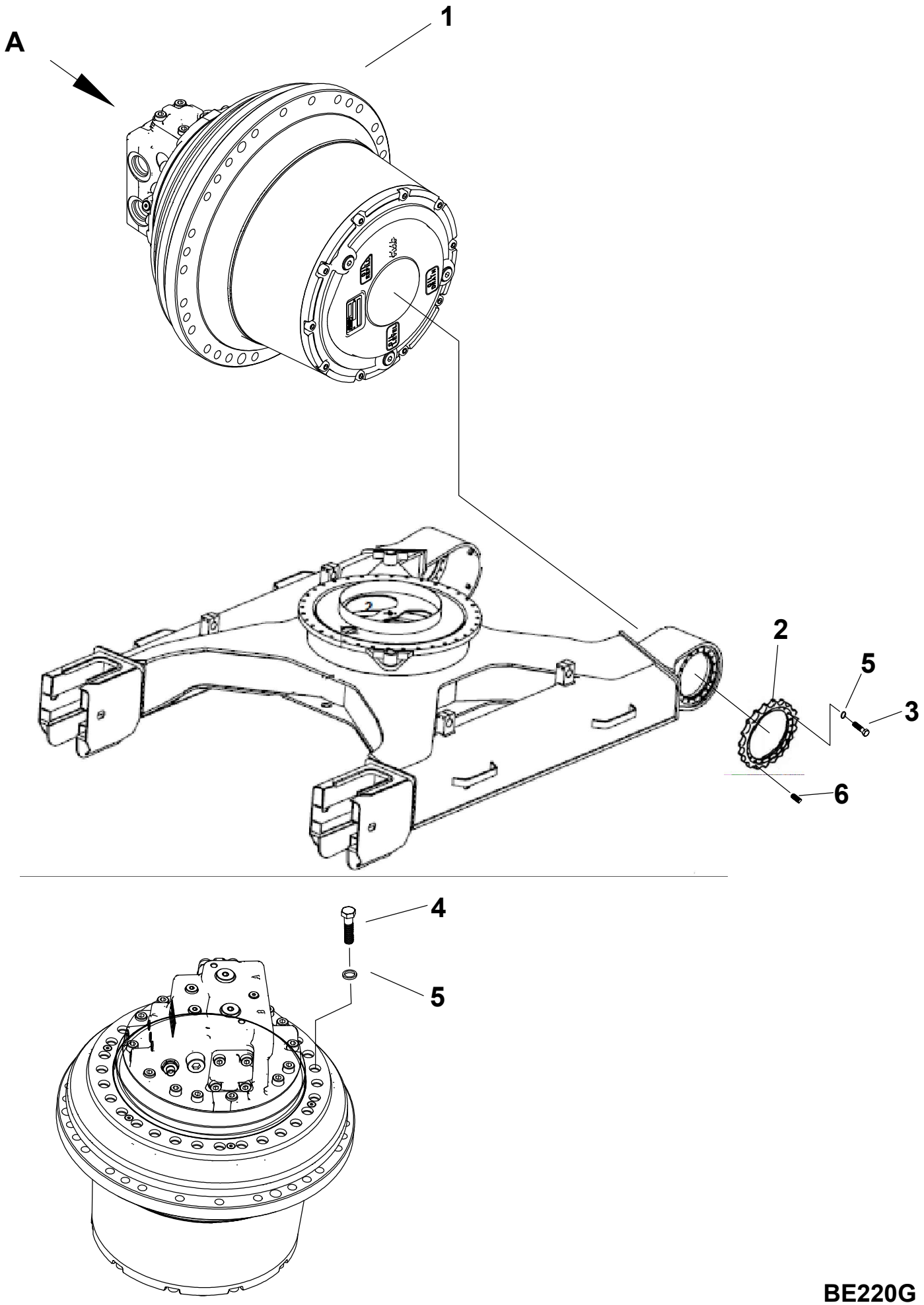
FIG: 2110 TRAVEL CONTROL LEVER



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ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 PM 91309	FOOT PEDAL	2	
02	782 CO 11094	LEVER	2	
03	155 CO 73984	KNOB	2	
04	CFN20 21207	LOCK NUT	2	
05	155 CO 13881	SCREW	2	

FIG. 2120 FINAL DRIVE WITH TRAVEL MOTOR



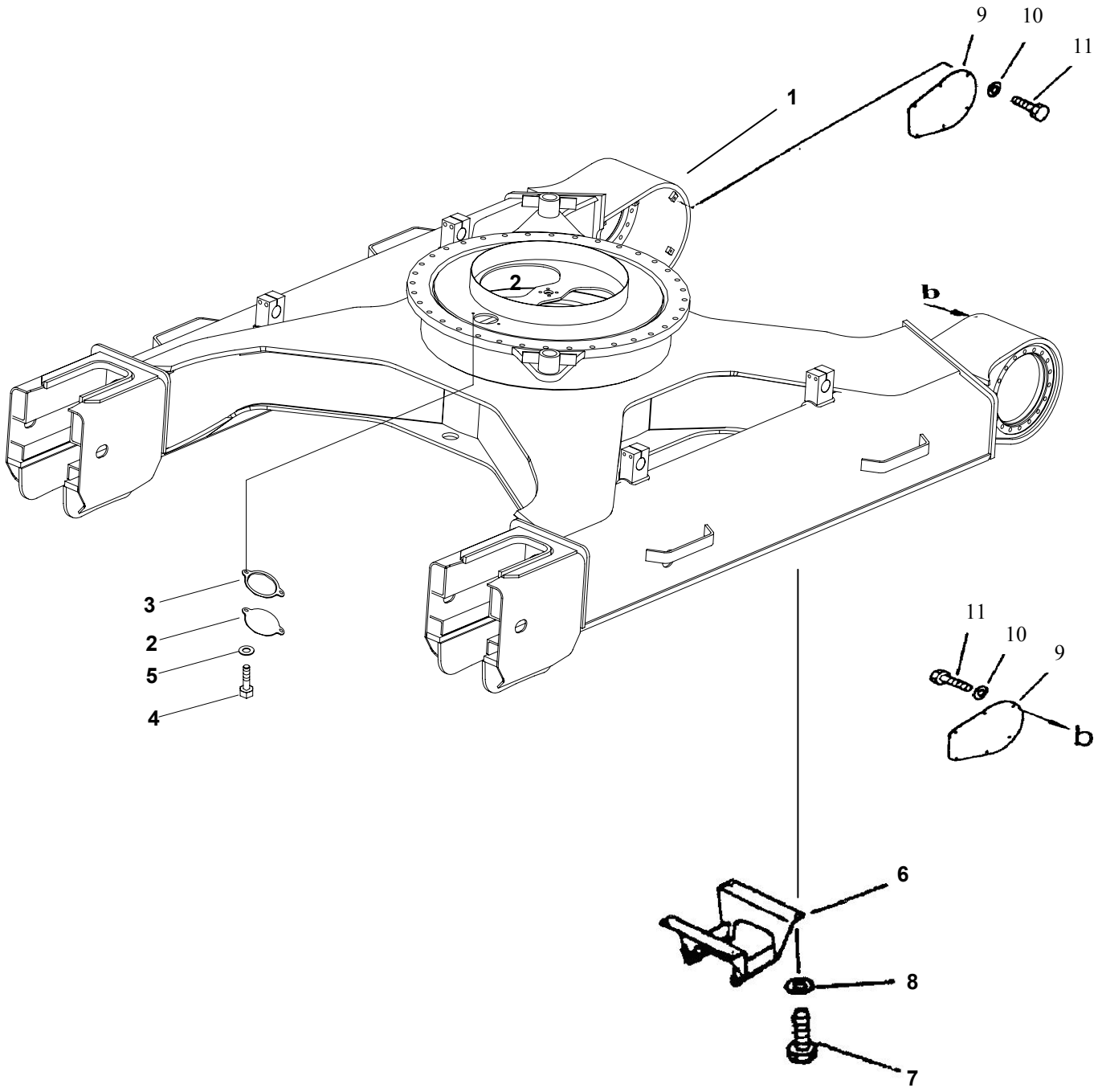
BE220G

ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 FD 02303	F/DRIVE ASSY WITH	2	
02	156 FD 02311	SPROCKET	2	
03	CFB01 21655	BOLT	60	
04	CFB01 21685	BOLT	60	
05	CFW05 16045	WASHER	120	
06	CFP04 01842	DOWEL PIN	6	

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III. UNDER CARRIAGE

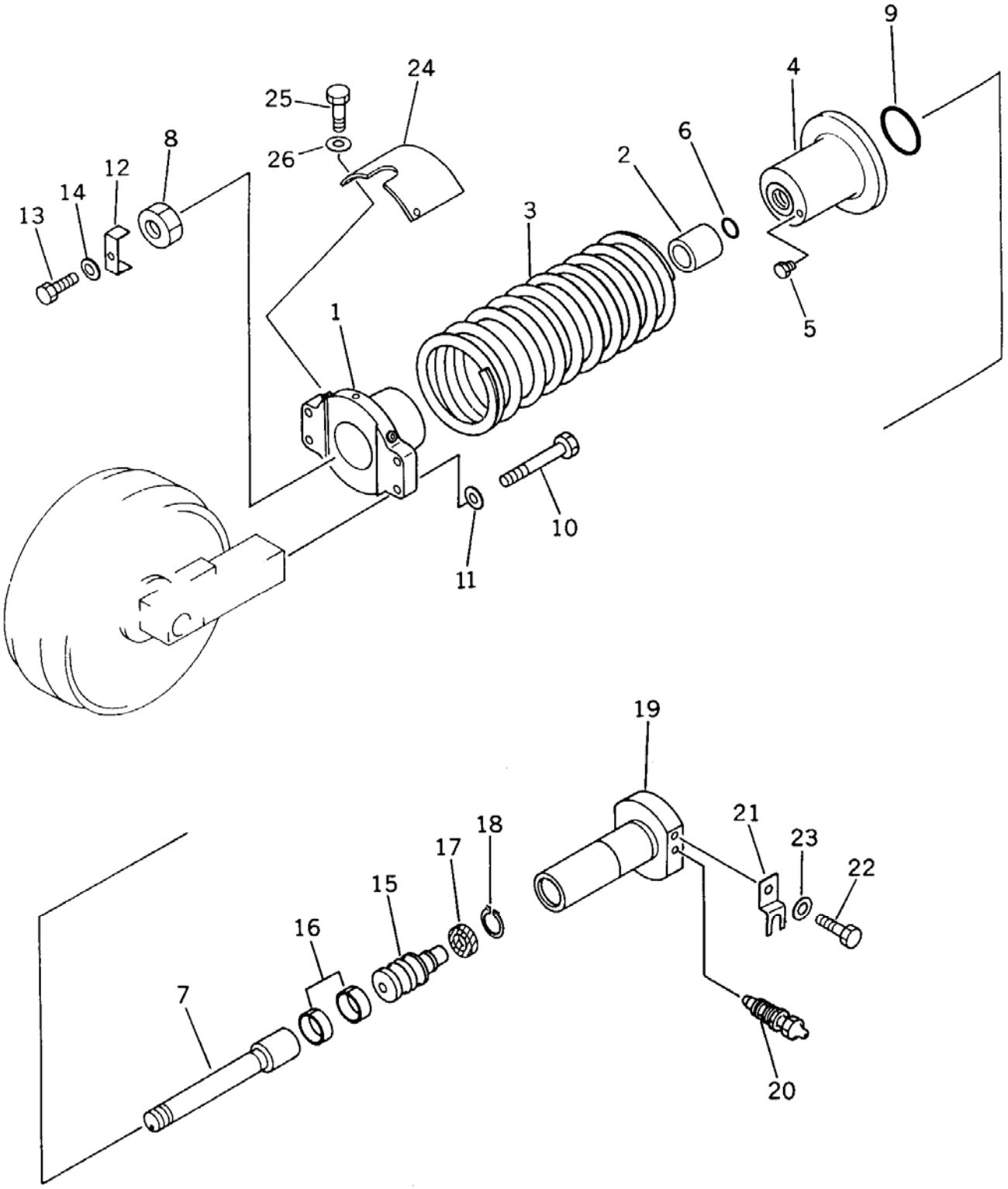
FIG. 3000 TRACK FRAME



BE220G

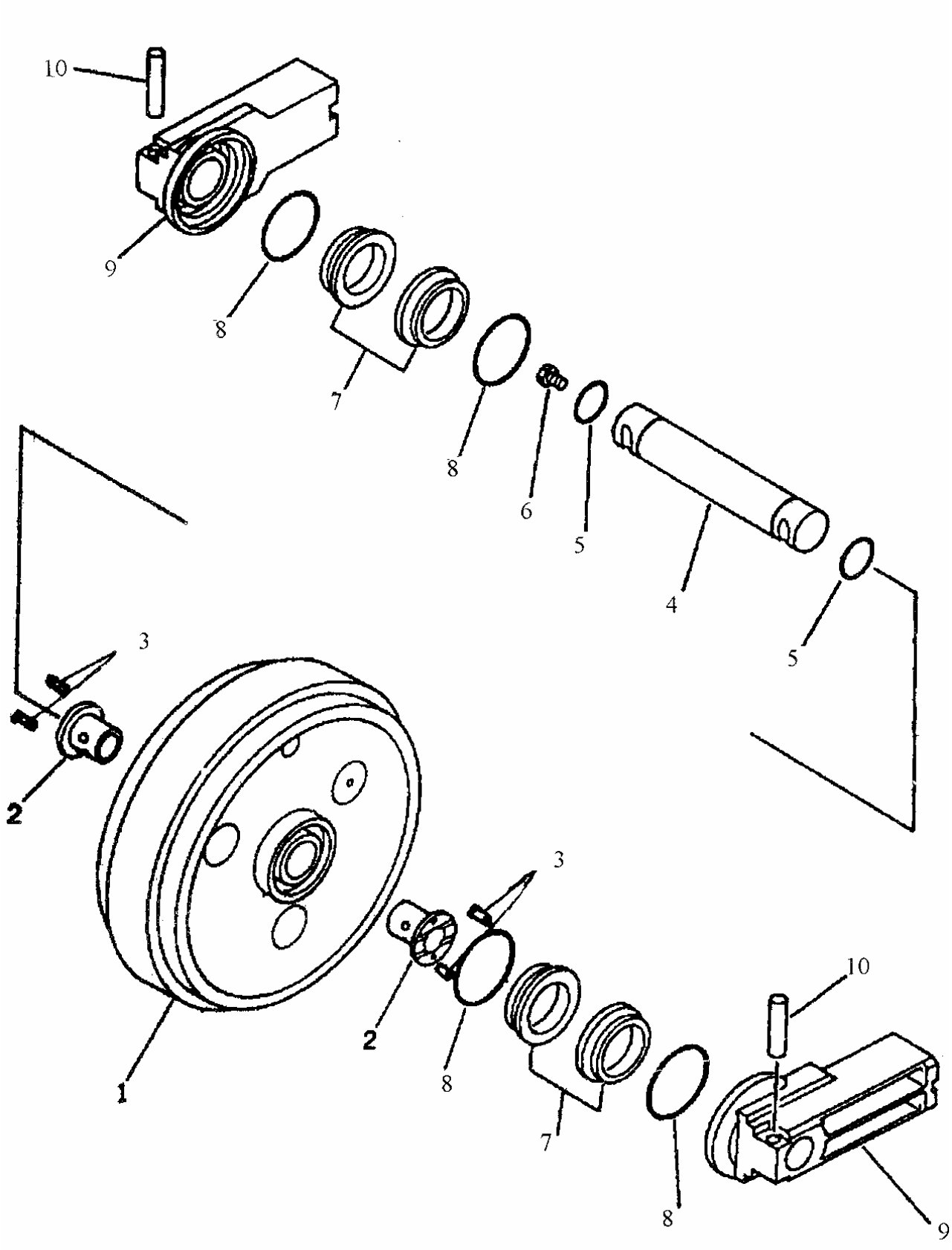
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 TF 02034	FRAME	1	
02	155 TF 11692	COVER	1	
03	155 TF 61701	GASKET	1	
04	CFS01 31225	SCREW	2	
05	CFW05 12032	WASHER	2	
06	155 TF 02109	GUARD	2	
07	CFS01 22050	SCREW	8	
08	CFW05 20060	WASHER	8	
09	155 TF 11749	COVER	2	
10	CFW05 12032	WASHER	12	
11	CFS01 31230	SCREW	12	

FIG: 3010 RECOIL SPRING



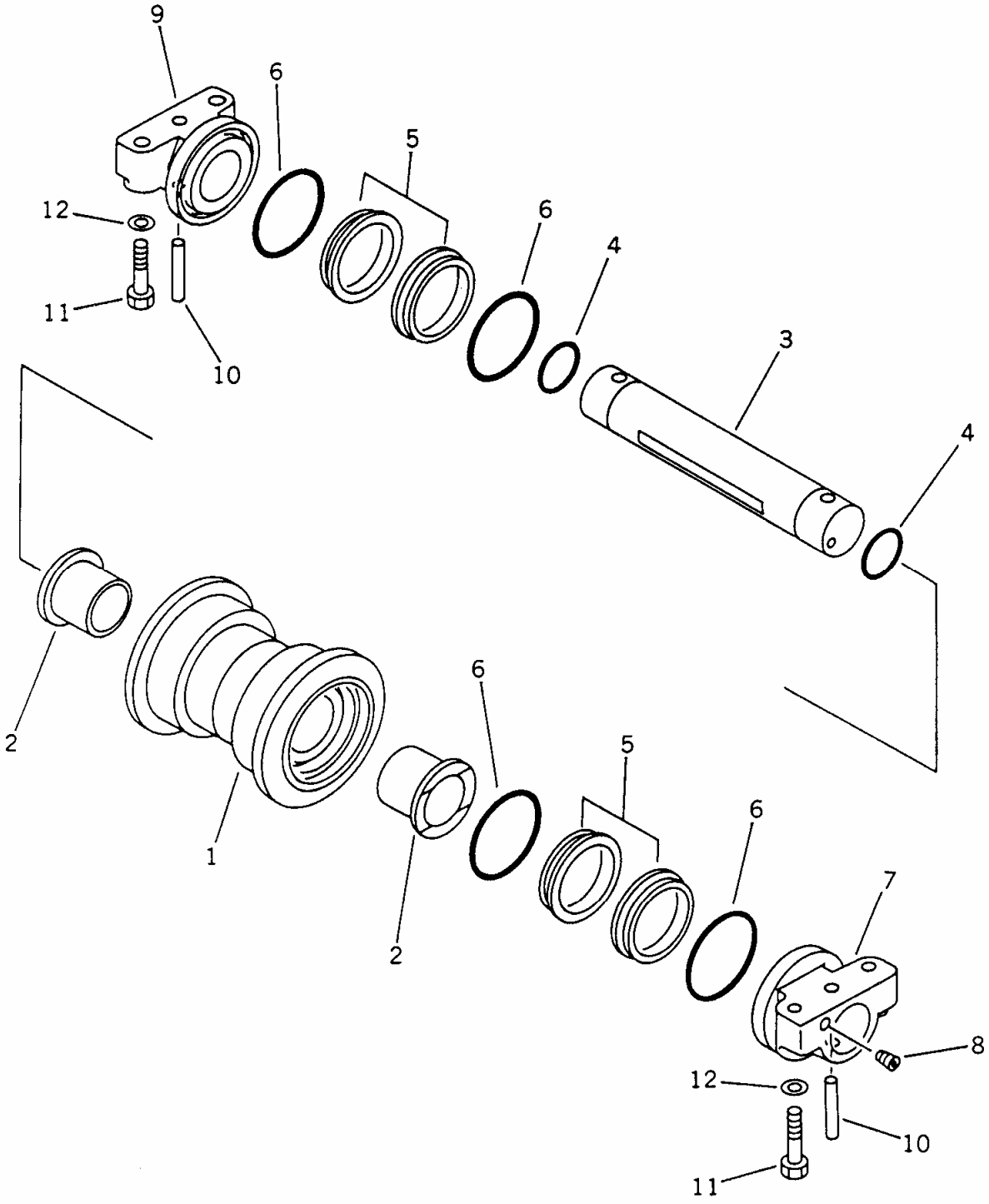
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
	155 TFB 0034	RECOIL SPRING ASSY.	2	
01	155 TF 41605	.YOKE	1	
02	155 TF 11627	.SPACER	1	
03	BSP01 46193	.SPRING RECOIL	1	
04	155 TF 41598	.YOKE	1	
05	CLN02 00000	.VALVE	1	
06	CHS01 12055	.O RING	1	
07	155 TF 11579	.SHAFT	1	
08	155 TF 11676	.NUT	1	
09	CHS01 15105	O RING	2	
10	CFB01 21670	BOLT	8	
11	CFW05 16045	WASHER	8	
12	155 TF 11619	LOCK	2	
13	CFS01 31225	SCREW	2	
14	CFW05 12032	WASHER	2	
15	155 TF 41581	PISTON	2	
16	CGR03 00720	RING WEAR	4	
17	CHS12 00070	U-PACKING	2	
18	CFL01 14518	RING SNAP	2	
19	155 TF 02011	CYLINDER	2	
20	CVL01 20000	VALVE LUBRICATION	2	
21	155 TF 11732	PLATE STOPPER	2	
22	CFS01 31225	SCREW	2	
23	CFW05 12032	WASHER	2	
24	155 TF 11643	COVER	2	
25	CFS01 31225	SCREW	4	
26	CFW05 12032	WASHER	4	

FIG: 3020 FRONT IDLER



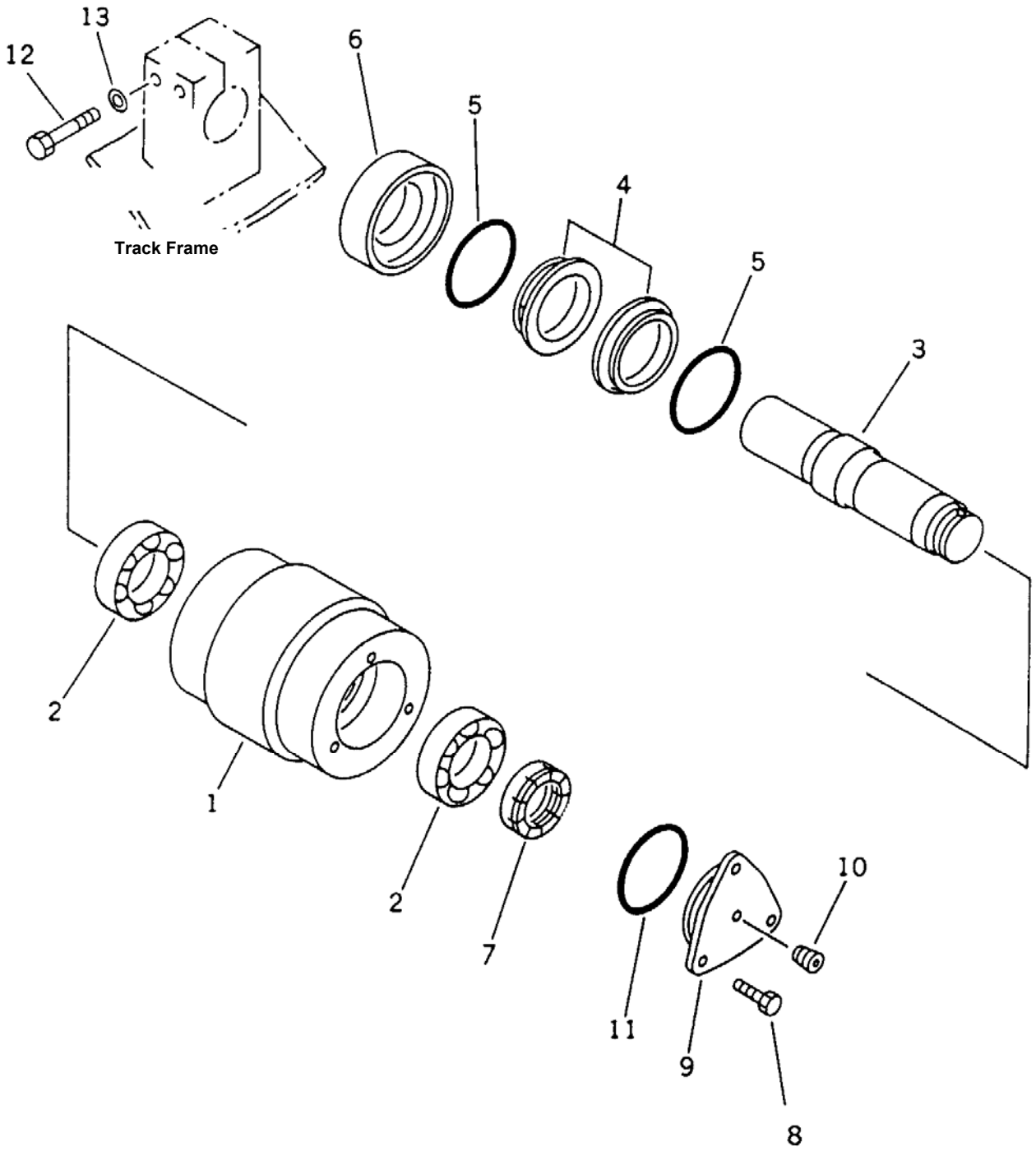
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
	155 TF 02052	FRONT IDLER ASSY	2	
	155 TF 02133	.IDLER ASSY	1	
01	155 TF 03057	..IDLER	1	
02	155 TF 92709	..BUSHING	2	
03	171 TF 11629	..PIN	4	
04	155 TF 12056	.SHAFT	1	
05	CHS01 12060	.O RING	2	
06	BPL04 11624	.PLUG	1	
	130 TF 00106	.FLOATING SEAL ASSY.	2	
	130 TF 00114	..SEAL RING ASSY	1	
07	*135 TF 41765	...RING SEAL	2	
	130 TF 00122	..O RING ASSY	1	
08	*135 TF 61789	...O RING	2	
09	155 TF 42115	.SUPPORT	2	
10	155 TF 12729	.PIN DOWEL	2	

FIG. 3031 TRACK ROLLER



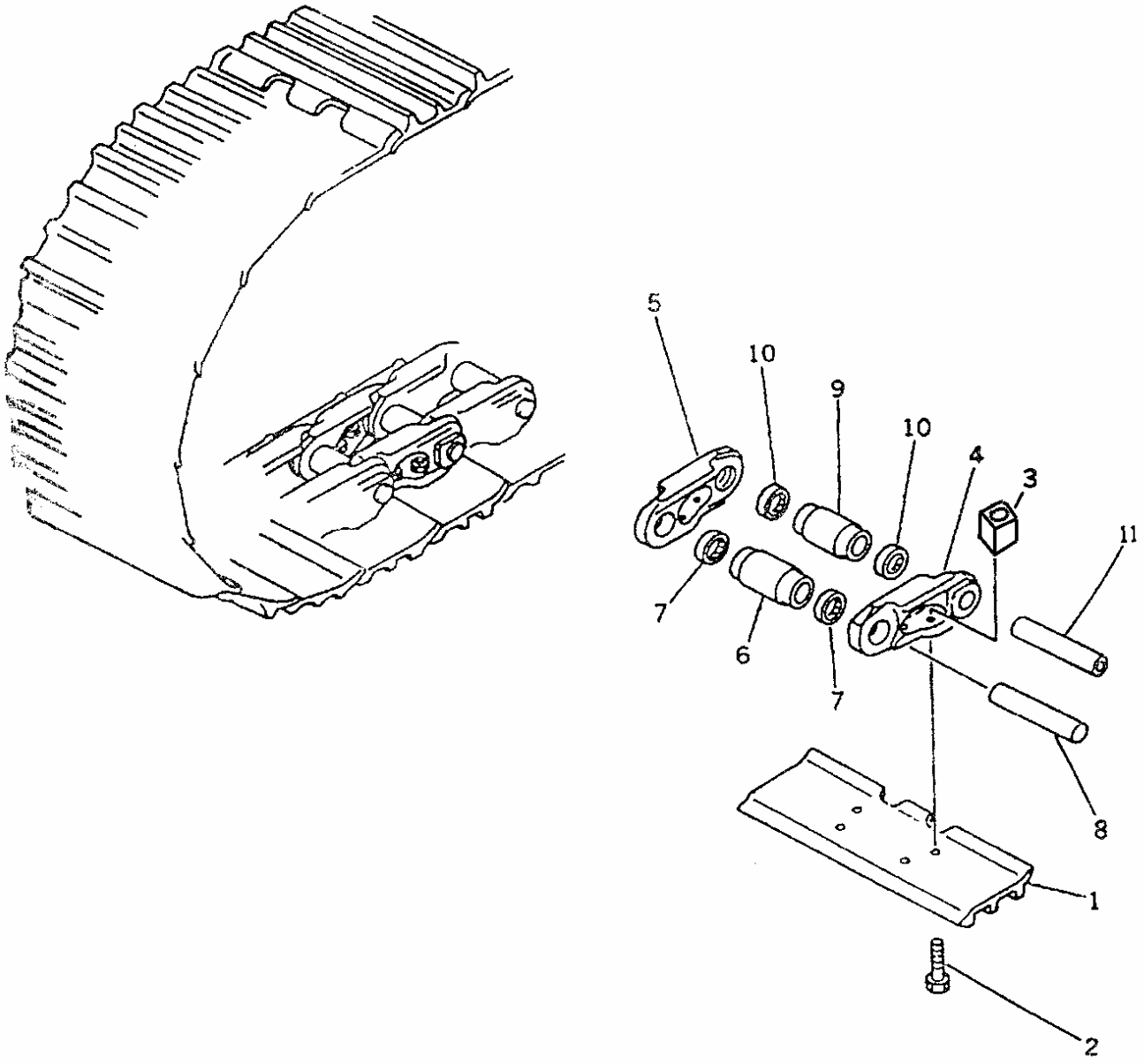
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
	155 TF 02069	TRACK ROLLER ASSY.	16	
01	155 TF 03073	.ROLLER TRACK	1	
02	155 TF 92255	.BUSHING	2	
03	155 TF 12178	.SHAFT	1	
04	155 TF 62017	.O-RING	2	
	155 TFB 0042	.FLOATING SEAL ASSY.	2	
	155 TFB 0059	..SEAL RING ASSY.	1	
05	*155 TF 42245	...RING SEAL	2	
	155 TFB 0067	..O-RING ASSY.	1	
06	*155 TF 62236	...O-RING	2	
07	155 TF 42197	.COLLAR R.H.	1	
08	155 TF 12267	.PLUG	1	
09	155 TF 42204	.COLLAR L.H	1	
10	155 TF 12226	.PIN DOWEL	2	
11	CFB01 21690	BOLT	64	
12	CFW05 16045	WASHER	64	

FIG: 3040 CARRIER ROLLER



ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
	155 TF 02077	CARRIER ROLLER ASSY	4	
01	155 TF 32282	.ROLLER	1	
02	CBT02 32010	.BEARING	2	
03	155 TF 12356	.SHAFT	1	
	155 TFB 0075	.FLOATING SEAL ASSY	1	
	155 TFB 0083	..SEAL RING ASSY	1	
04	*155 TF 42326	...RING SEAL	2	
	155 TFB 0091	..O RING ASSY	1	
05	*155 TF 62211	...O RING	2	
06	155 TF 52346	.RING	1	
07	113 TF 12402	.NUT	1	
08	CFS01 31025	.SCREW	3	
09	155 TF 42318	.COVER	1	
10	155 TF 12267	.PLUG	1	
11	CHS01 12075	.O RING	1	
12	CFB01 21680	BOLT	8	
13	CFW05 16045	WASHER	8	

FIG: 3050 TRACK SHOE

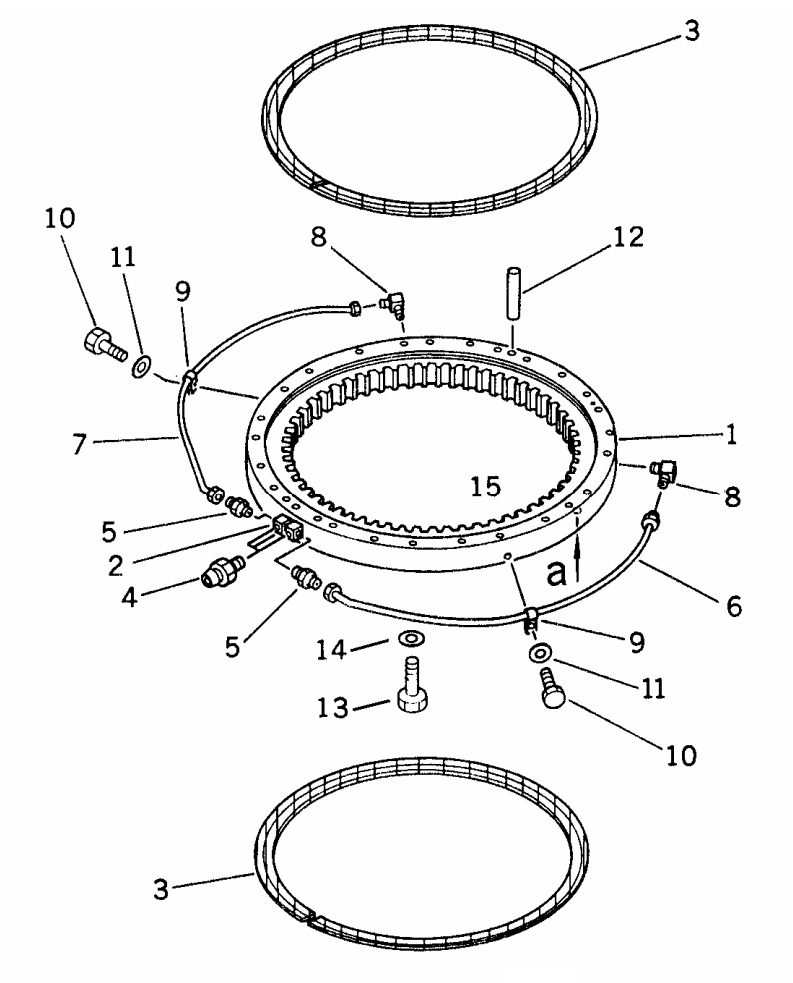


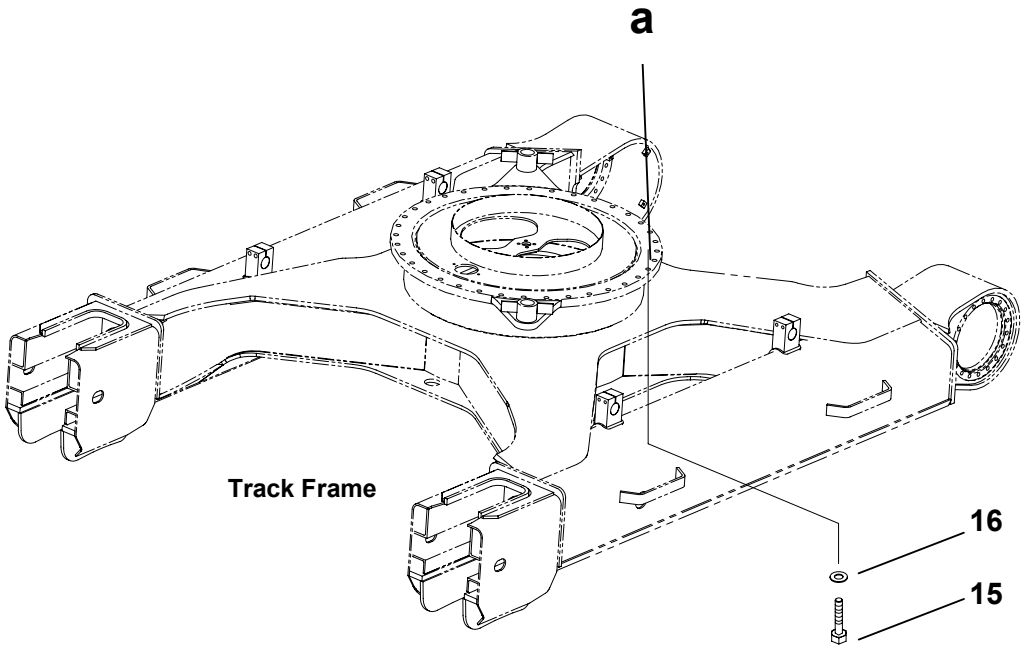
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
	763 TF 01027	TRACK SHOE ASSY	2	
01	155 CT 11164	.SHOE TRACK	47	
02	BFB34 11858	.BOLT SHOE	188	
03	BFN27 11824	.NUT SHOE	188	
	763 TF 02015	.TRACK LINK ASSY	1	
04	155 CT 51243	..LINK TRACK L.H	47	
05	155 CT 51268	..LINK TRACK R.H	47	
06	155 CT 11034	..BUSHING REGULAR	45	
07	155 CT 61069	..SEAL DUST REG	90	
08	155 CT 11083	..PIN REGULAR	45	
09	155 CT 11042	..BUSHING MASTER	2	
10	110 CT 61072	..SEAL DUST MASTER	4	
11	155 CT 11091	..PIN MASTER	2	

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IV. SWING AND CONTROL SYSTEM

FIG. 4000 SWING CIRCLE

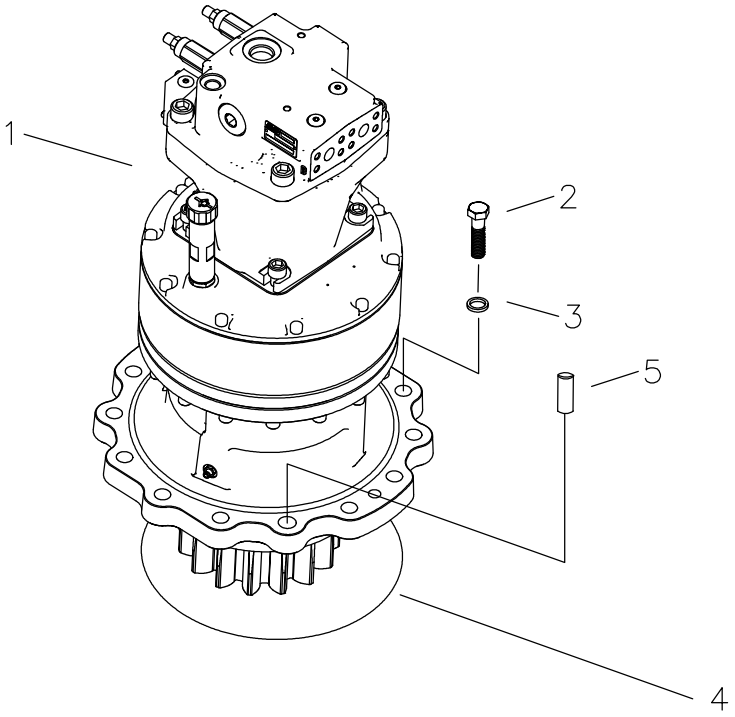


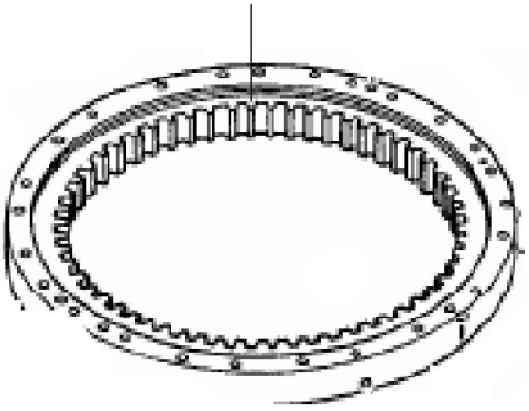


BE220G

ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	155 SO 91743	CIRCLE SWING	1	
02	155 SO 11066	.NIPPLE	2	
03	155 SO 61076	.SEAL	2	
03	*155 SOB 0024	.SEAL	2	
04	CLN01 10000	FITTING GREASE	3	
05	CPF05 10813	CONNECTOR	2	
06	155 SO 02018	TUBE	1	
07	155 SO 02026	TUBE	1	
08	155 SO 11155	ELBOW	2	
09	CCC06 00814	CLIP	2	
10	CFS01 31016	SCREW	2	
11	CFW05 10032	WASHER	2	
12	CFP04 01842	PIN DOWEL	3	
13	CFB08 22215	BOLT	26	
14	CFW05 22060	WASHER	26	
15	CFB01 22070	BOLT	36	
16	CFW05 20060	WASHER	36	
		* SEAL FOR ROTHERDE		

FIG. 4010 SWING MACHINERY AND MOTOR

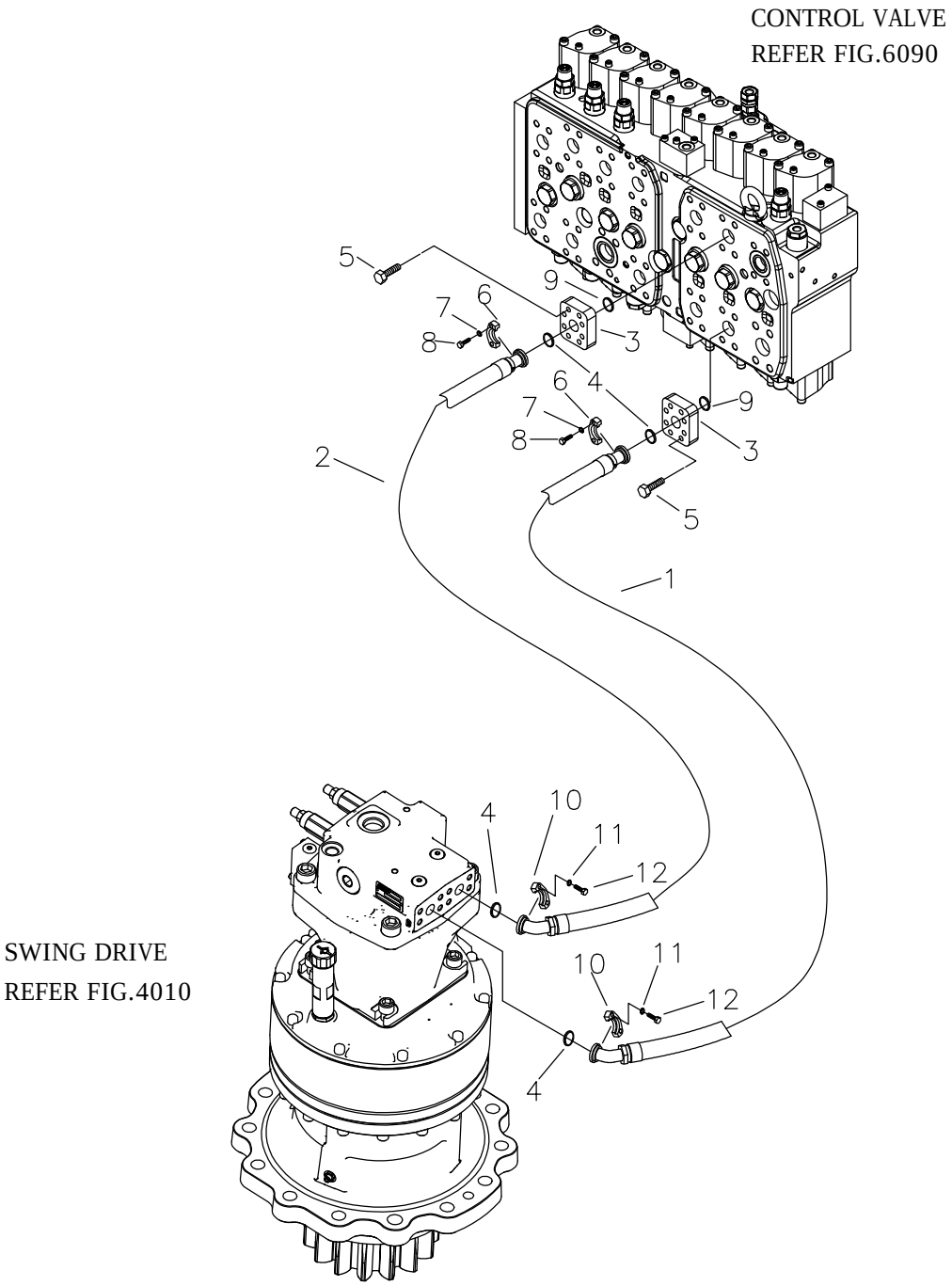




SWING CIRCLE

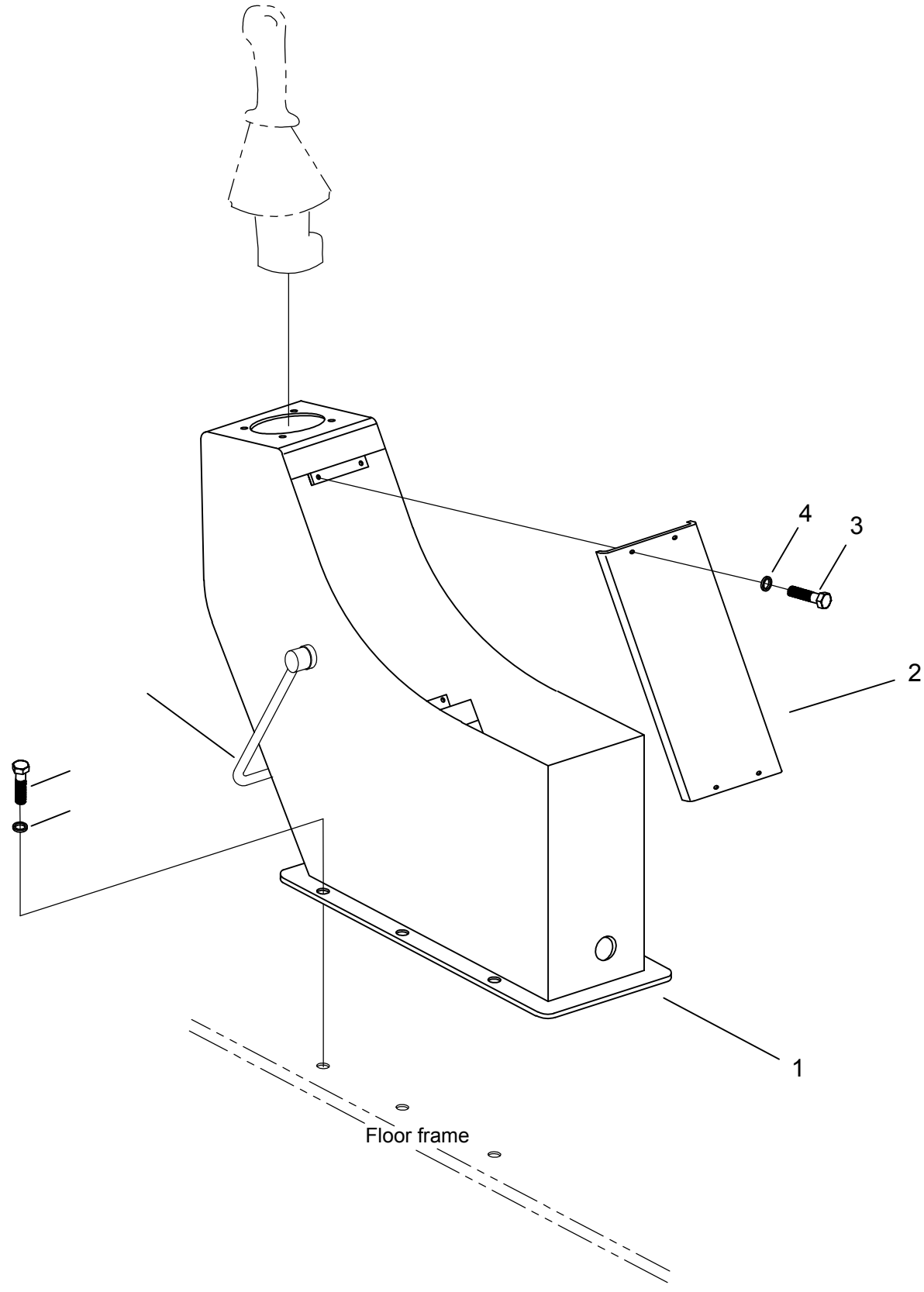
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 SO 01077	SWING MACHINERY ASSY	1	
02	CFS01 32065	SCREW	13	
03	CFW05 20060	WASHER	13	
04	CHS01 15330	O RING	1	
05	130 EI 11014	DOWEL PIN	1	

FIG. 4070 HYDRAULIC PIPING
(CONTROL VALVE TO SWING MOTOR)



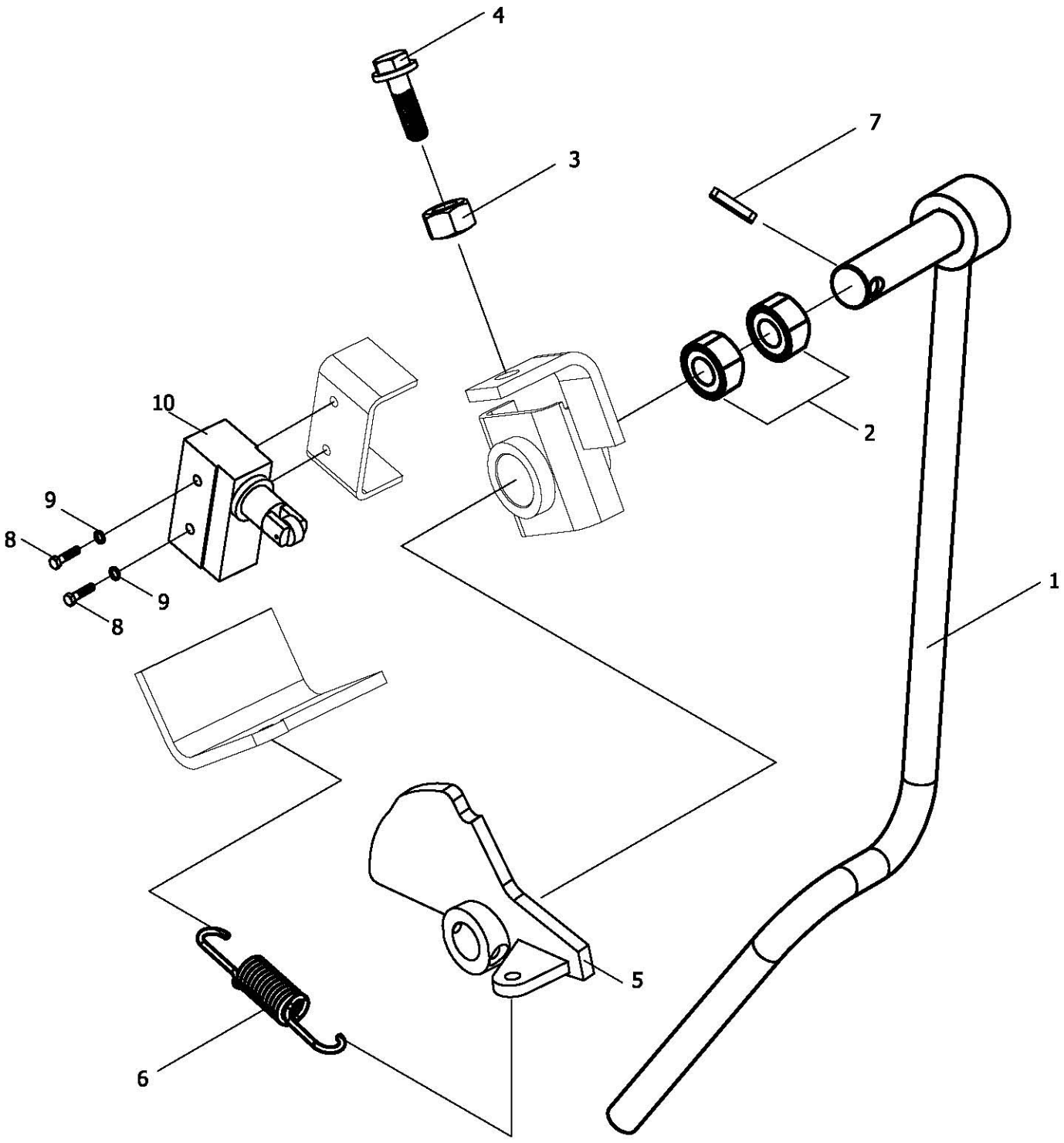
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	CHH28 01208	HOSE	1	
02	CHH28 01208	HOSE	1	
03	156 PM 11564	ADAPTOR PLATE	2	
04	CHS01 13025	O RING	4	
05	CFS13 31230	SCREW	8	
06	CFG03 12039	SPLIT FLANGE	4	
07	CFW06 08023	WASHER	8	
08	CFS01 30830	SCREW	8	
09	155 PH 61927	O RING	2	
10	156 PM 12917	SPLIT FLANGE	4	
11	CFW06 10032	WASHER	8	
12	CFS01 31030	SCREW	8	

FIG. 4080 CONTROL STAND LH



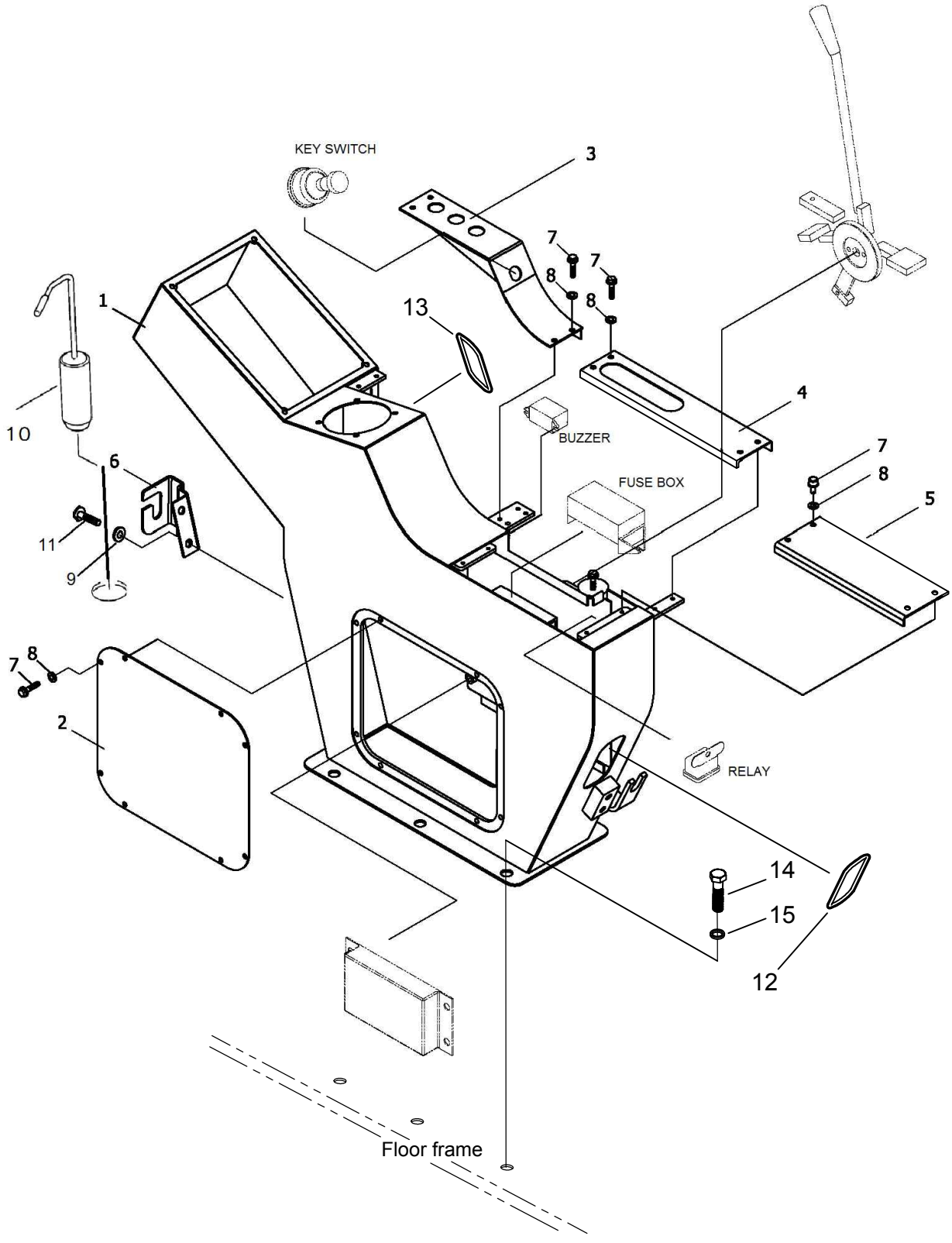
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 CO 02044	CONTROL STAND LH	1	
02	156 CO 12526	PLATE	1	
03	CFS01 20612	HEX. HEAD SCREW	4	
04	CFW05 06023	PLAIN WASHER	4	
05	CFS01 31230	SCREW	6	
06	CFW05 12032	WASHER	6	

Fig. 4090 SAFETY LEVER CONTROL



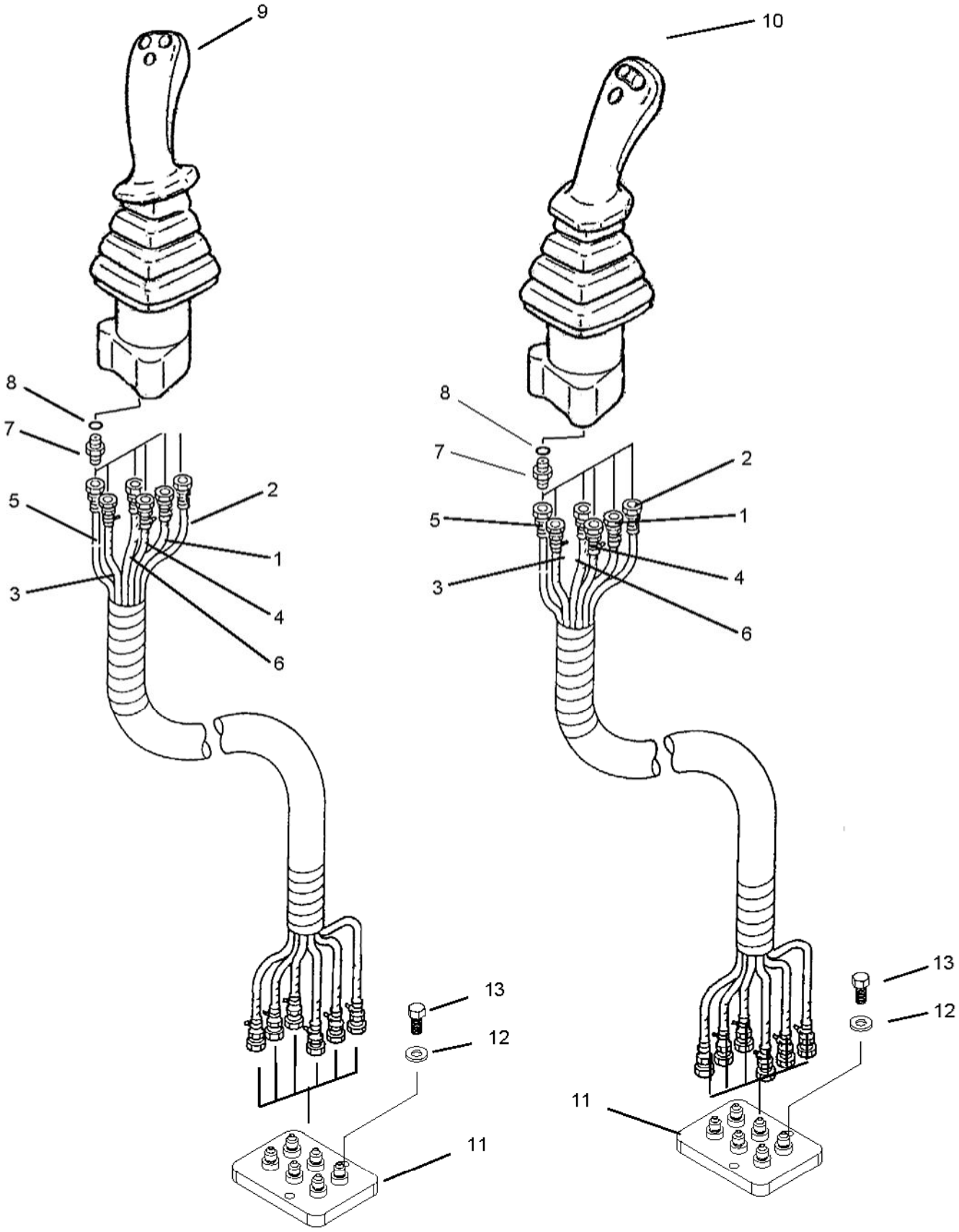
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 CO 02069	LEVER	1	
02	135 CO 91509	BEARING	2	
03	CFN01 21211	NUT	1	
04	CFS01 31020	SCREW	1	
05	183 CO 02106	CAM ASSY	1	
06	156 CO 12591	SPRING	1	
07	CFP13 05024	PIN-SPRING	1	
08	CFS01 20430	BOLT	2	
09	CFW03 10406	WASHER	2	
10	125 EG 91672	SWITCH	1	

FIG. 4100 CONTROL STAND RH



ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 CO 02036	CONTROL STAND RH	1	
02	156 CO 12518	PLATE	1	
03	156 CO 02052	PLATE ASSY	1	
04	156 CO 12437	PLATE	1	
05	156 CO 12534	PLATE	1	
06	156 CO 12501	PLATE	1	
07	CFS01 20612	HEX. HEAD SCREW	19	
08	CFW05 06023	WASHER	19	
09	CFW05 10032	WASHER	2	
10	155 CO 02273	PIN	1	
11	CFS01 21016	HEX. HEAD SCREW	2	
12	155 CO 62213	SEAL	1	
13	155 CO 61606	SEAL	1	
14	CFS01 31230	SCREW	5	
15	CFW05 12032	WASHER	5	

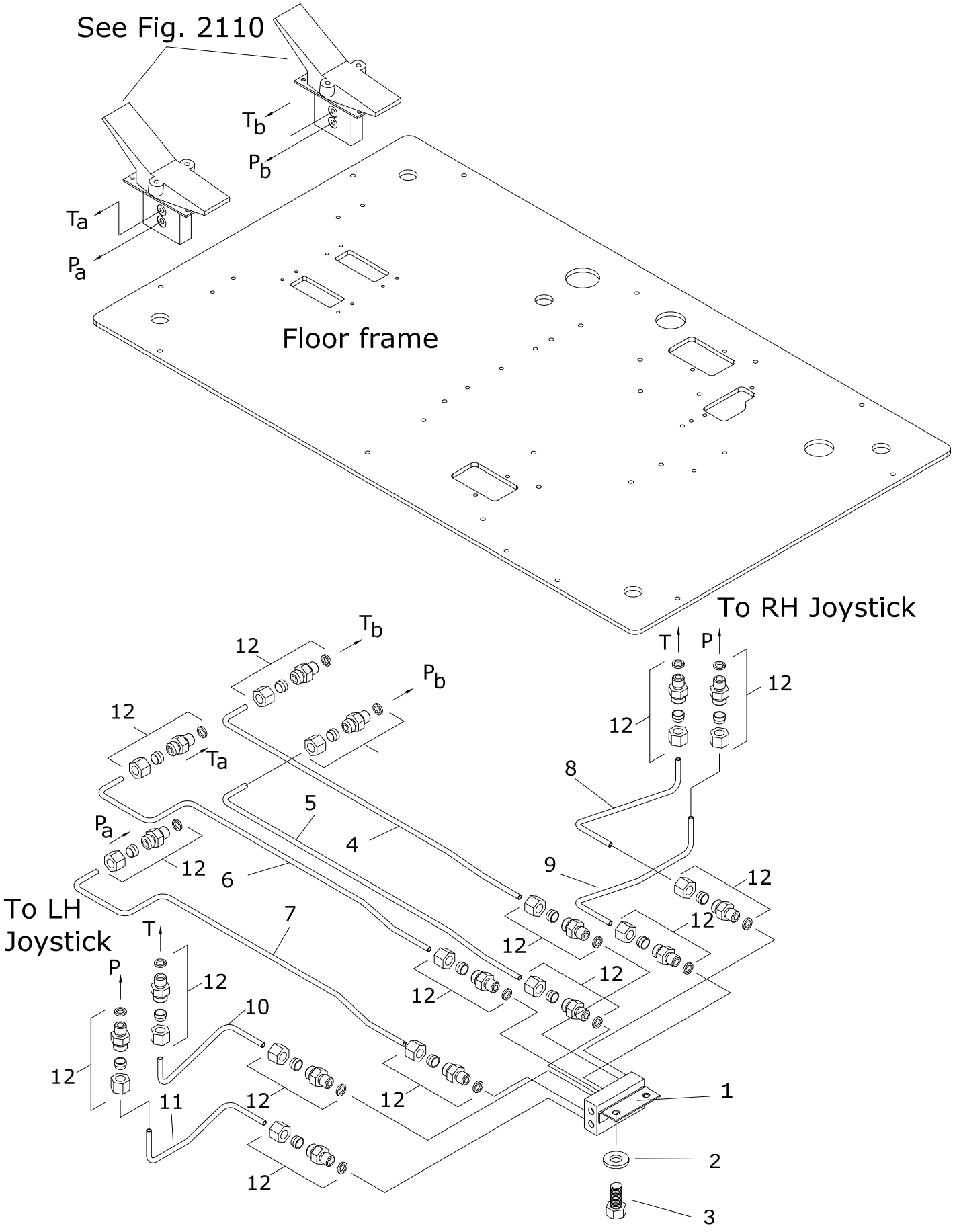
FIG: 4110 PILOT PIPING (1/6)



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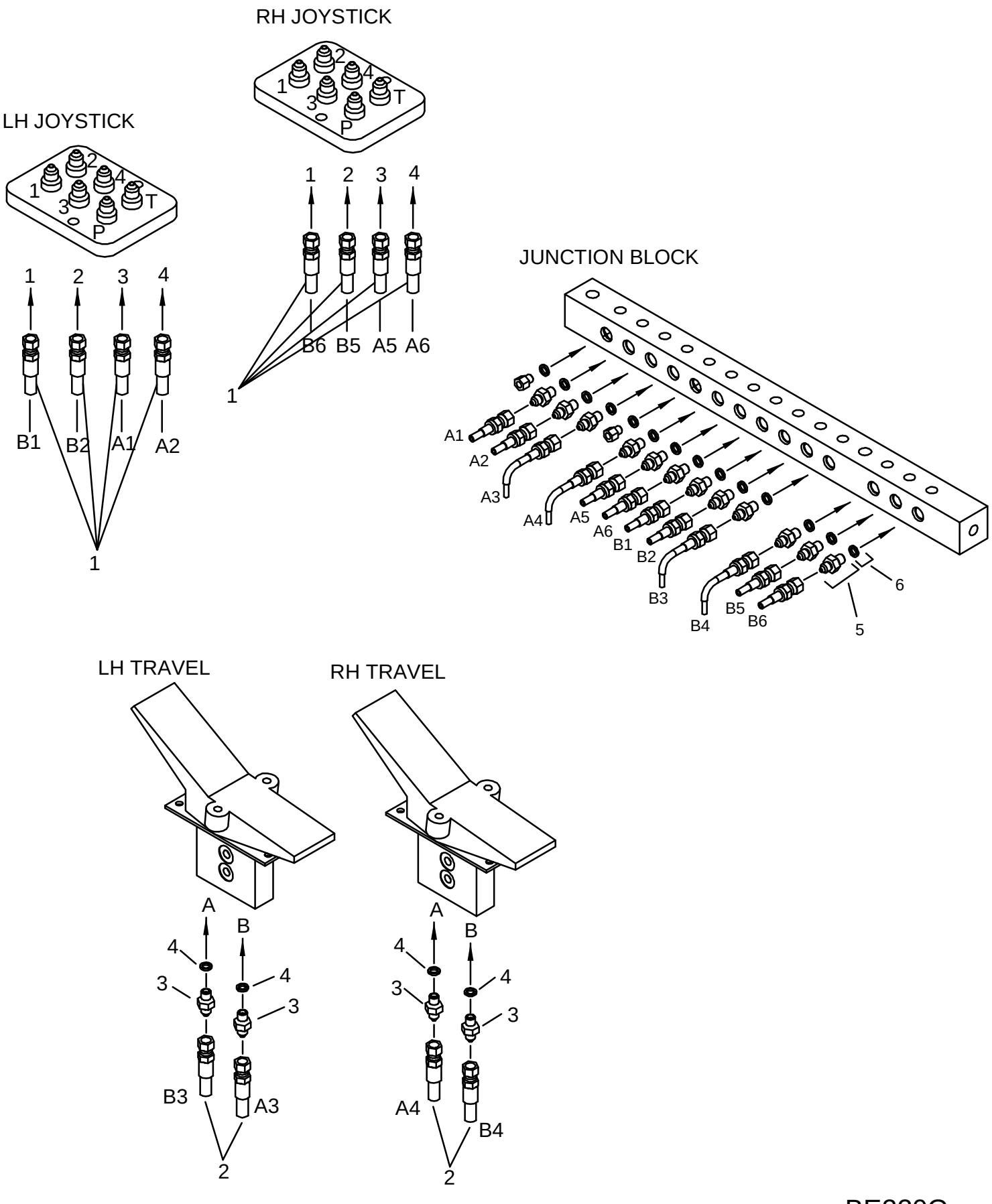
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
	156 PH 03815	HOSE ASSY.	2	
01	CHH22 00408	HOSE(GREEN)	1	
02	CHH22 00408	HOSE(YELLOW)	1	
03	CHH22 00408	HOSE(WHITE)	1	
04	CHH22 00408	HOSE(BLUE)	1	
05	CHH22 00408	HOSE(RED)	1	
06	CHH22 00408	HOSE(BLACK)	1	
07	782 PH 13294	ADAPTOR	12	
08	782 PH 23776	SEAL, WASHER	12	
09	156 PM 91285	JOY STICK	1	
10	156 PM 91293	JOY STICK	1	
11	156 PM 02232	BLOCK ASSY.	2	
12	CFW05 12032	WASHER	4	
13	CFS01 31230	SCREW	4	

FIG NO. 4120 PILOT PIPING (2/6)



ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 PM 02249	BLOCK ASSY.	1	
02	CFW05 12032	WASHER	2	
03	CFS01 31230	SCREW	2	
04	156 PM 10746	TUBE	1	
05	156 PM 10754	TUBE	1	
06	156 PM 10762	TUBE	1	
07	156 PM 10779	TUBE	1	
08	156 PM 10787	TUBE	1	
09	156 PM 10795	TUBE	1	
10	156 PM 10802	TUBE	1	
11	156 PM 10819	TUBE	1	
12	156 PM 90597	ADAPTOR ASSY.	16	

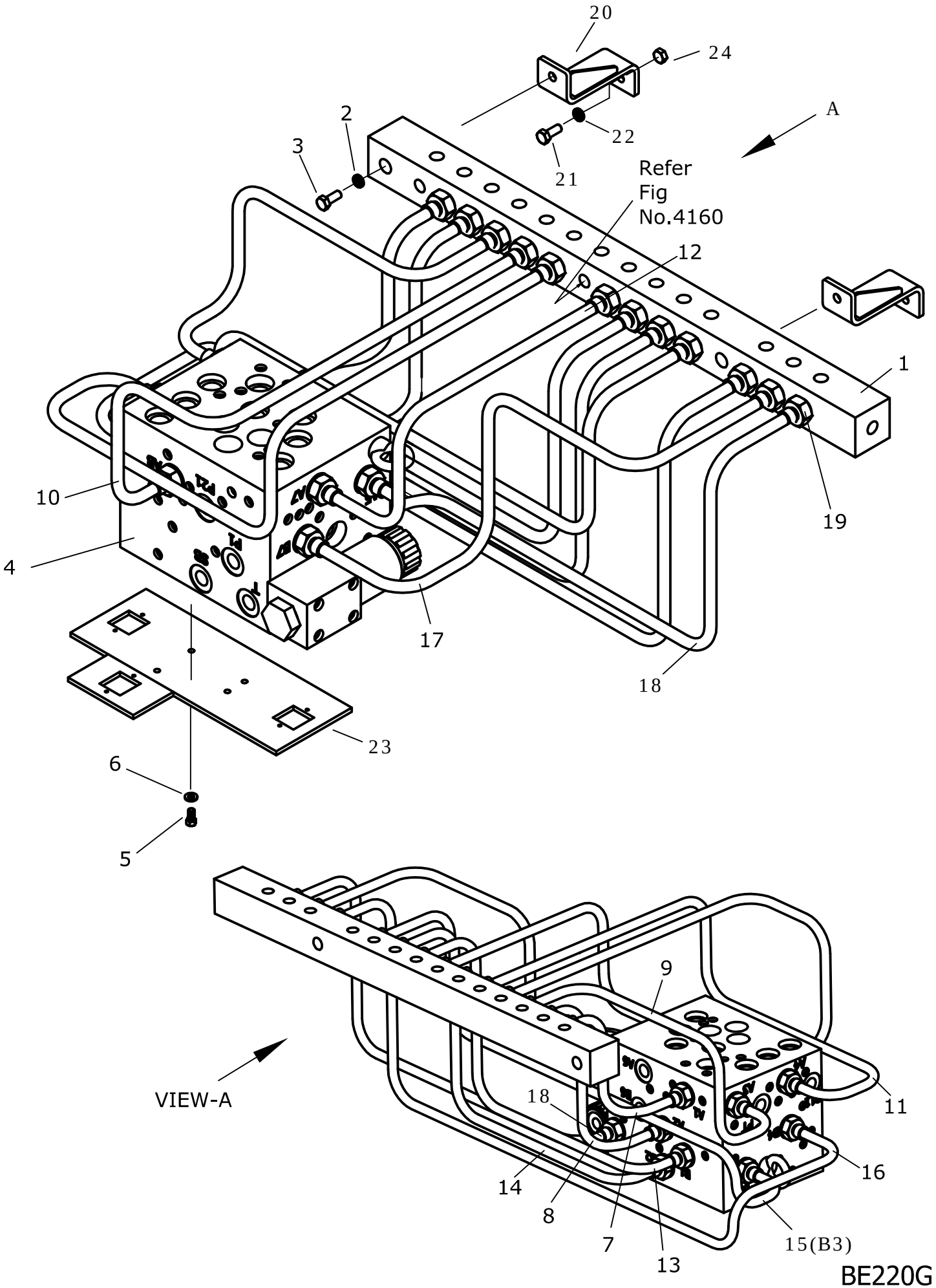
Fig. 4130 PPC VALVE PIPING (3/6)



BE220G

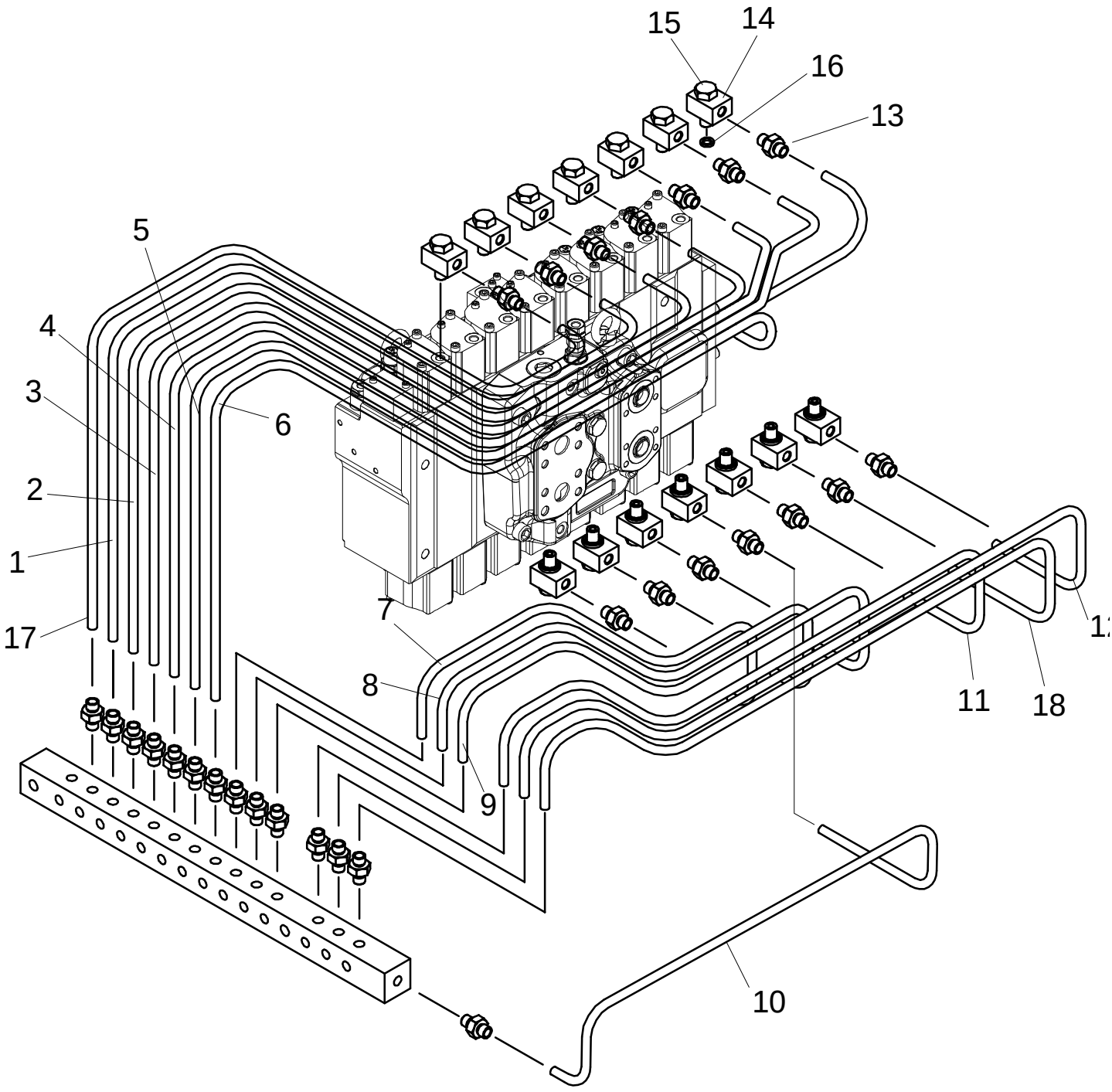
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 PM 91106	HOSE ASSY.	8	
02	156 PM 91099	HOSE ASSY.	4	
03	782 PH 13294	ADAPTOR	4	
04	782 PH 23776	SEAL, WASHER	4	
05	CPF15 10214	UNION	12	
06	CHS03 11423	O-RING	12	

Fig. 4140 PPC VALVE PIPING (4/6)



ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 PM 12803	JUNCTION BLOCK	1	
02	CFW05 12032	WASHER	2	
03	CFB01 21260	BOLT	2	
04	157 CV 02101	LOGIC BLOCK ASSY (M	1	
05	CFS01 21020	SCREW	4	
06	CFW01 11030	WASHER	4	
07	156 PM 12552	TUBE	1	
08	156 PM 12569	TUBE	1	
09	156 PM 12577	TUBE	1	
10	156 PM 12811	TUBE	1	
11	156 PM 12585	TUBE	1	
12	156 PM 12609	TUBE	1	
13	156 PM 12617	TUBE	1	
14	156 PM 12625	TUBE	1	
15	156 PM 12633	TUBE	1	
16	156 PM 12641	TUBE	1	
17	156 PM 12666	TUBE	1	
18	156 PM 12658	TUBE	1	
19	156 PM 90597	TUBE	24	
20	156 PM 02638	BRACKET ASSY	2	
21	CFS01 31230	SCREW	4	
22	CFW05 12032	WASHER	4	
23	156 RF 11946	MOUNTING	1	
24	CFN28 21214	NUT	4	

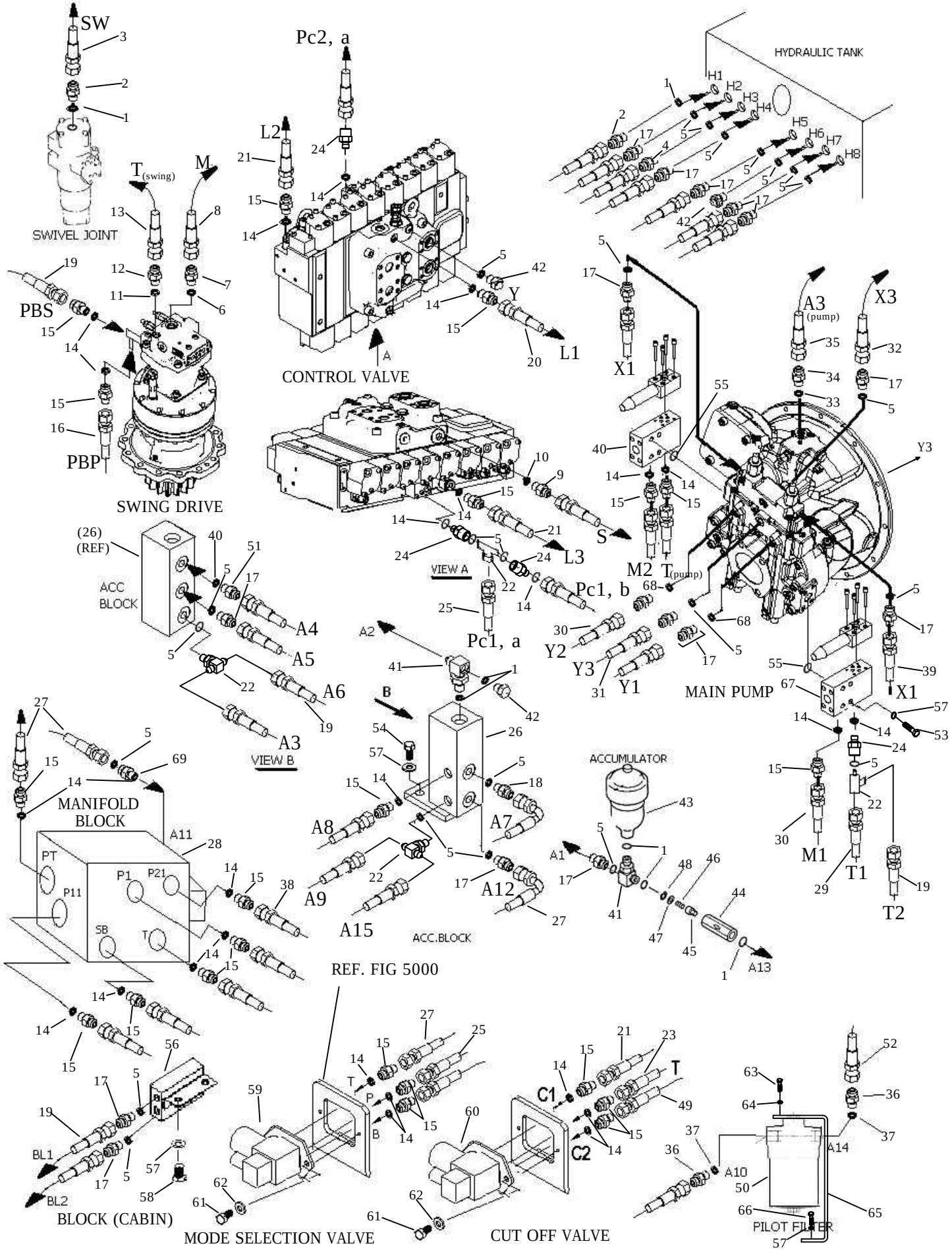
Fig. 4150 PPC VALVE PIPING (5/6)



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ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 PM 12674	TUBE	1	
02	156 PM 12682	TUBE	1	
03	156 PM 12699	TUBE	1	
04	156 PM 12706	TUBE	1	
05	156 PM 12714	TUBE	1	
06	156 PM 12722	TUBE	1	
07	156 PM 12739	TUBE	1	
08	156 PM 12747	TUBE	1	
09	156 PM 12755	TUBE	1	
10	156 PM 12763	TUBE	1	
11	156 PM 12771	TUBE	1	
12	156 PM 12788	TUBE	1	
13	156 PM 90597	ADAPTOR ASSY	14	
	156 ZZ 11625	BANJO ASSY	14	
14	156 ZZ 11641	*BANJO ADAPTOR	14	
15	156 ZZ 11633	*BANJO BOLT	14	
16	156 ZZ 11658	*BANJO WASHER	28	
17	156 PM 12796	TUBE	1	
18	156 PM 12877	TUBE	1	

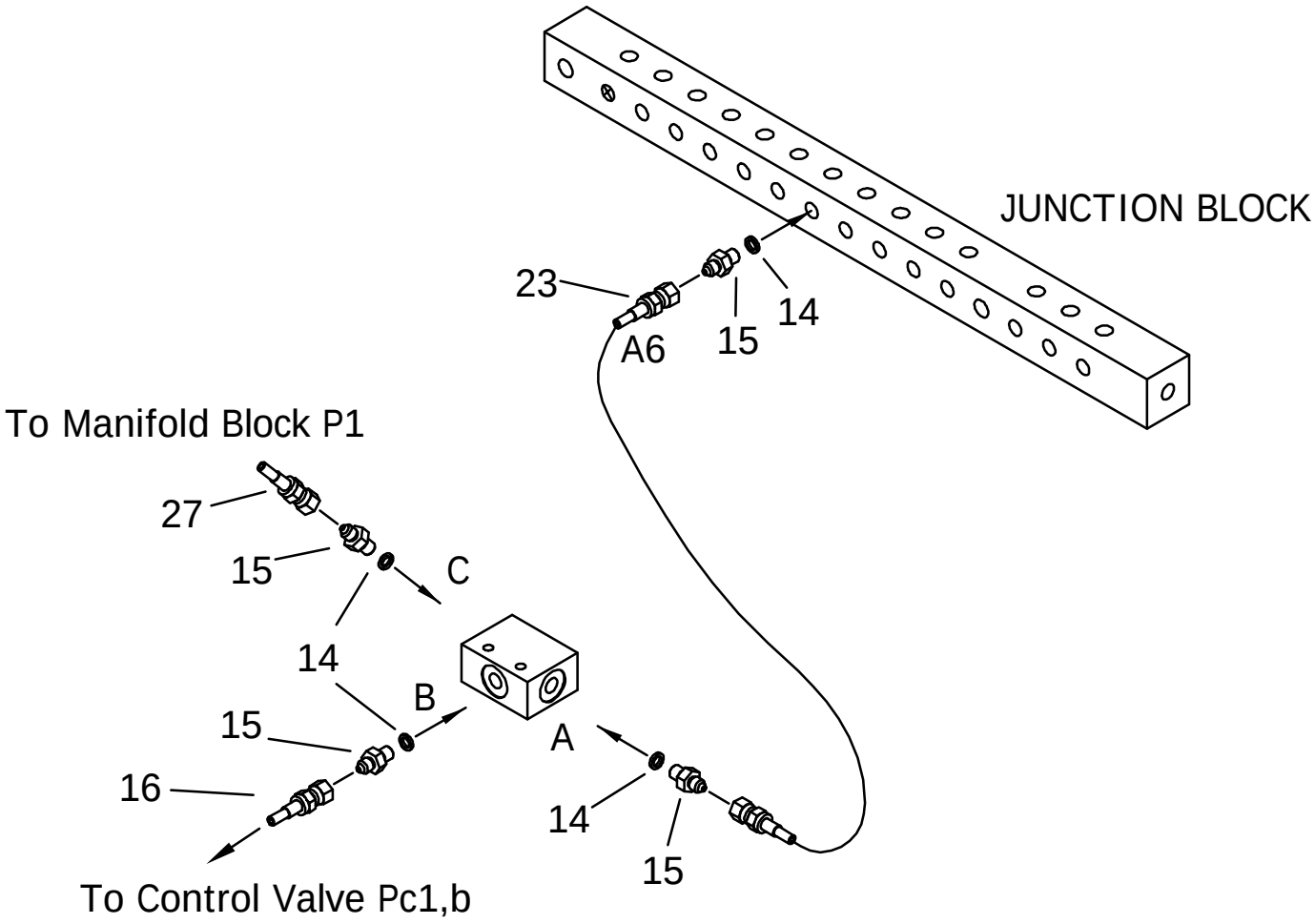
FIG. 4160 PILOT PIPING (6/6)



Contd...

ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	CHS03 12034	O RING	7	
02	156 HS 12473	ADAPTOR	2	
03	156 PH 93645	HOSE	1	
04	156 PM 11159	ADAPTOR	1	
05	CHS03 11423	O RING	23	
06	782 PH 23816	SEALING WASHER	1	
07	176 FL 10006	ADAPTOR	1	
08	182 PH 91757	HOSE	1	
09	156 PH 11842	ADAPTOR	1	
10	782 PH 23849	SEALING WASHER	1	
11	136 PH 22037	COPPER WASHER	1	
12	474 PH 12486	ADAPTOR	1	
13	799 PH 98313	HOSE	1	
14	782 PH 23776	COPPER WASHER	31	
15	782 PH 13294	ADAPTOR	26	
16	799 PH 98338	HOSE	2	
17	CPF15 10214	ADAPTOR	15	
18	CPF22 10210	ELBOW	1	
19	156 PM 91114	HOSE	4	
20	CHH22 00410	HOSE	1	
21	156 PM 91122	HOSE	3	
22	155 PH 02407	TEE	4	
23	782 PH 93355	HOSE	2	
24	156 PH 11778	ADAPTOR	4	
25	156 PM 91206	HOSE	2	
26	156 PM 02265	BLOCK ASSY	1	
27	156 PM 91244	HOSE	4	
28	157 CV 02101	LOGIC BLOCK ASSY	1	
29	CHH22 00407	HOSE	1	
30	781 PH 91364	HOSE	2	
31	CHH22 00420	HOSE	1	
32	CHH22 00425	HOSE	1	
33	782 PH 23792	SEALING WASHER	1	
34	156 PH 11891	ADAPTOR	1	
35	156 PM 91966	HOSE	1	
36	790 PH 11294	ADAPTOR	2	
37	CHS01 13028	O RING	2	
38	182 PH 91684	HOSE	1	
39	156 PM 91147	HOSE	1	
40	156 PM 91171	BLOCK LH	1	
41	155 PH 02326	TEE	2	205 62 71671

FIG. 4160 PILOT PIPING (6/6)



ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
42	CPL06 11410	PLUG	1	
43	155 PH 93436	ACCUMULATOR	1	
	155 PH 02431	.VALVE ASSY	1	
44	155 PH 12808	BODY	1	
45	155 PH 12816	POPPET	1	
46	155 PH 12824	SPRING	1	
47	155 PH 12832	SEAT	1	
48	CFL02 11410	RING SNAP	1	
49	782 PH 93371	HOSE	1	
50	781 PH 02928	PILOT FILTER	1	
51	CPF15 10422	ADAPTOR	1	
52	781 PH 92847	HOSE	1	
53	CFB01 31280	BOLT	4	
54	CFS01 31225	SCREW	2	
55	156 PM 60529	O RING	2	
56	156 PM 02249	BLOCK ASSY.	1	
57	CFW05 12032	WASHER	14	
58	CFS01 31230	SCREW	2	
59	156 PM 91252	MODE SELECTION VALVE	1	
60	156 PM 92249	DC VALVE (FULL CUT	1	
61	CFS01 30616	SCREW	4	
62	CFW05 10616	WASHER	4	
63	CFS01 30620	SCREW	4	
64	CFW05 06023	WASHER	4	
65	157 PH 14473	BRACKET	1	
66	CFS01 31235	SCREW	2	
67	156 PM 91188	BLOCK RH	1	
68	782 PH 23768	SEALING WASHER	2	
69	817 PT 11397	ADAPTER	1	

Fig No. 4160 Pilot Piping (6/6)

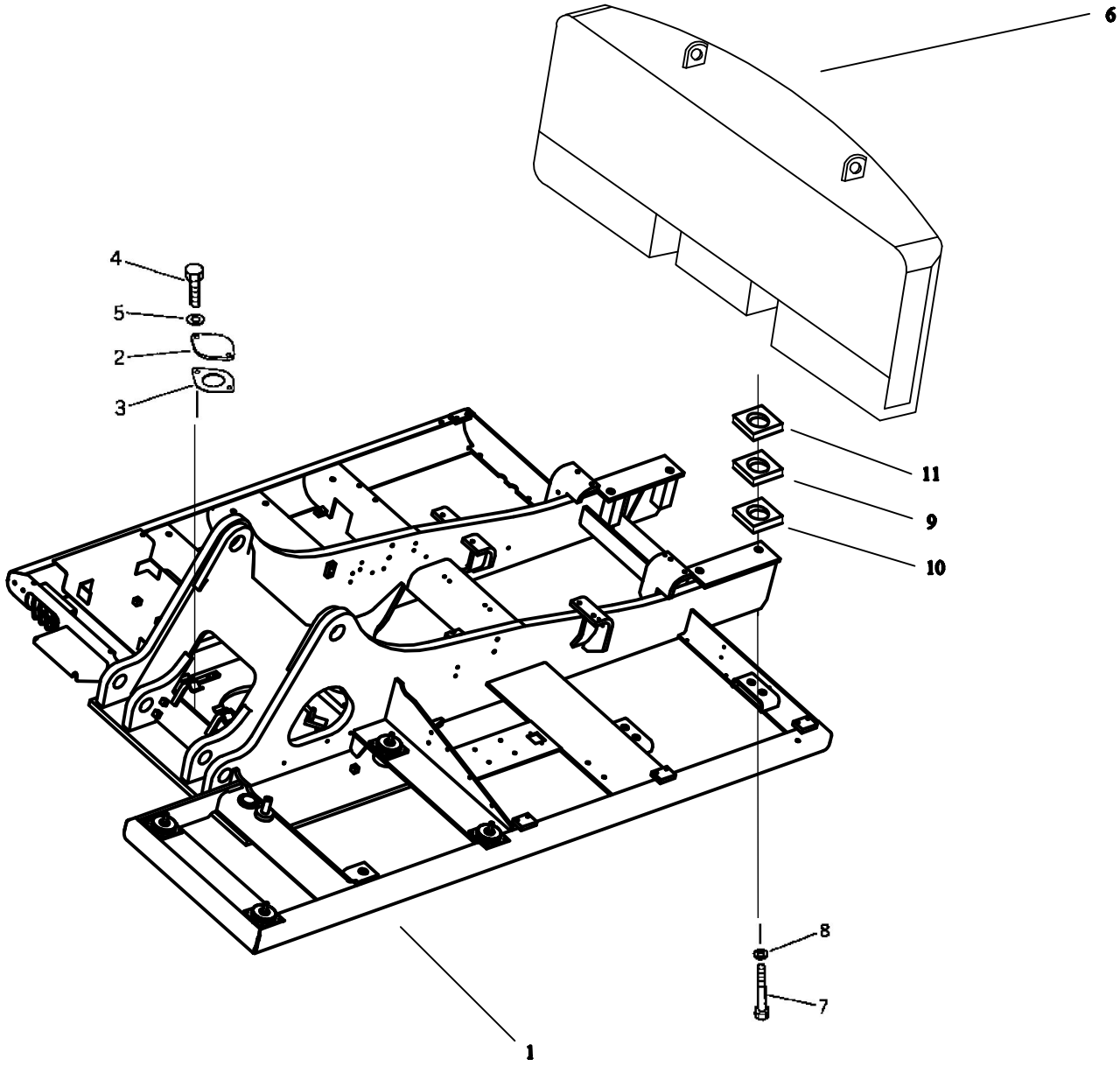
1. Swivel Joint to Tank	- SW to H1
2. Swing to Control Valve	- M to S
3. Swing to Tank	- T to H3
4. Swing to Accumulator Block	- PBS to A5
5. Swing to Manifold Block	- PBP to SB
6. Control Valve to Tank	- L1 to H7
7. Control Valve to Accumulator Block	- L2 to A3
8. Control Valve to Tank	- L3 to H8
9. Control Valve to Control Valve	- Pc1,a to Pc2,a
10. Control Valve to Control Valve	- Pc1,b to Pi
11. Control Valve to Manifold Block	- Pc2,b to P1
12. Control Valve to Tank	- Y to H6
13. Block (Cabin) to Tank	- BL1 to H2
14. Pump to Tank	- T2 to H4
15. Cut Off RH to Cut Off LH	- T1 to T2
16. Cut Off LH to Pump	- M2 to Y2
17. Cut Off RH to Pump	- M1 to Y1
18. Pump to Accumulator Block	- Y3 to A7
19. Pump to Mode Selection Valve	- X3 to B, MS
20. Pump to Pilot Filter	- A3 to A10
21. Pump to Manifold Block	- X1, LH to P21
22. Pump to Manifold Block	- X1, RH to P11
23. Mode Selection Valve to Accumulator Block	- T, MS to A8
24. Mode Selection Valve to Accumulator Block	- P, MS to A9
25. Accumulator to Manifold Block	- A12 to T
26. Accumulator Block to Accumulator	- A2 to A13
27. Accumulator to Full Cut Off Valve	- A1 to C1
28. Accumulator Bloc to Pilot Filter	- A4 to A14
29. Accumulator Block to Tank	- A6 to H5
30. Manifold Block to M. Block	- A11 to PT
31. Cut Off Valve to Block (Cabin)	- C2 to BL2
32. Manifold Block to Control Valve	- AB to B4

LEFT BLANK

LEFT BLANK

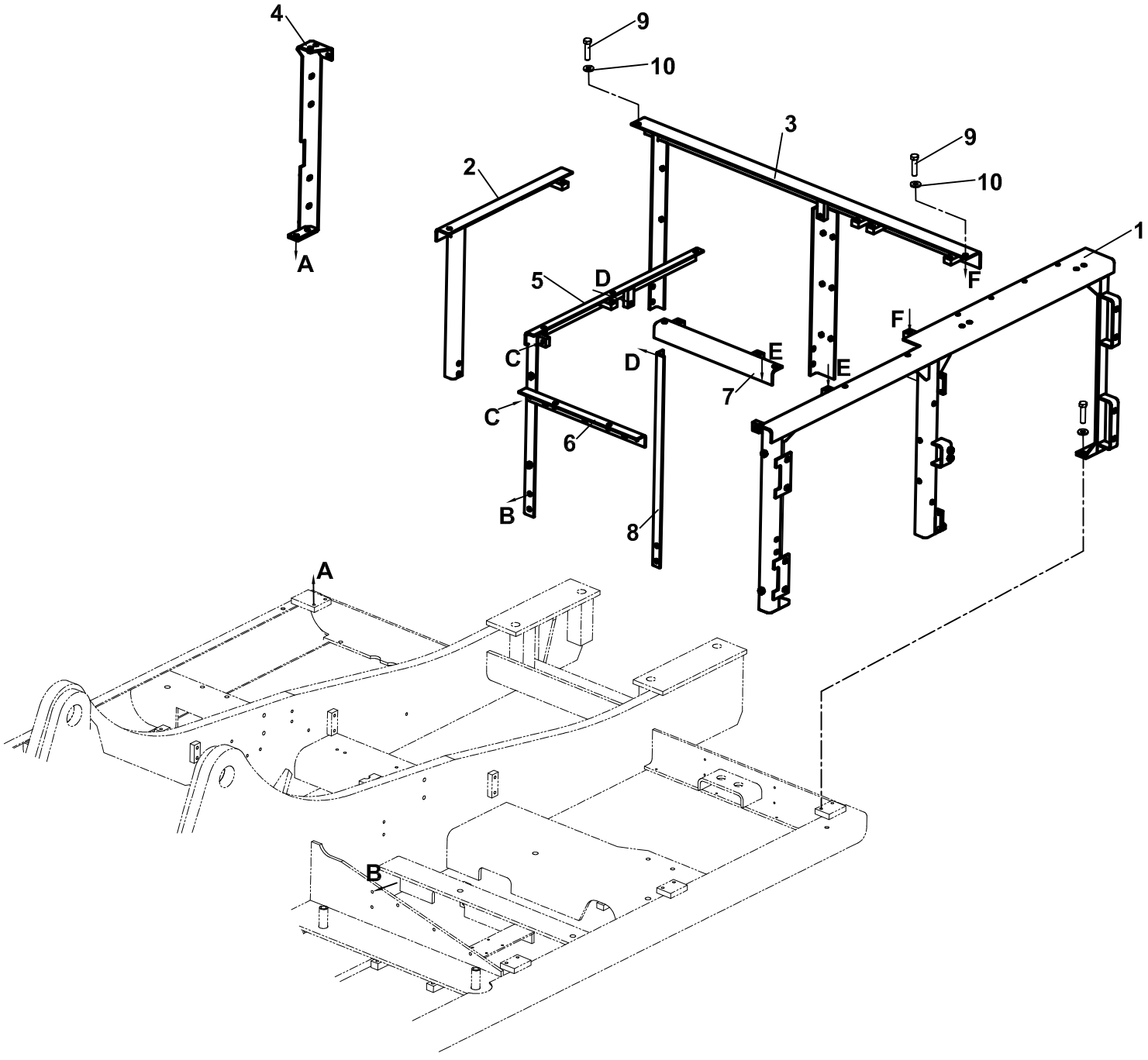
V. REVOLVING FRAME AND CAB

FIG. 5000 REVOLVING FRAME



ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 RF 02047	FRAME REVOLVING	1	
02	155 TF 11692	COVER	1	
03	155 TF 61701	GASKET	1	
04	CFS01 31230	SCREW	2	
05	CFW05 12032	WASHER	2	
06	156 CW 02009	WEIGHT COUNTER	1	
07	156 RF 11524	BOLT	4	
08	CFW05 27080	WASHER	4	
09	160 RF 11102	SHIM	4	
10	160 RF 11119	SHIM	4	
11	160 RF 11127	SHIM	4	

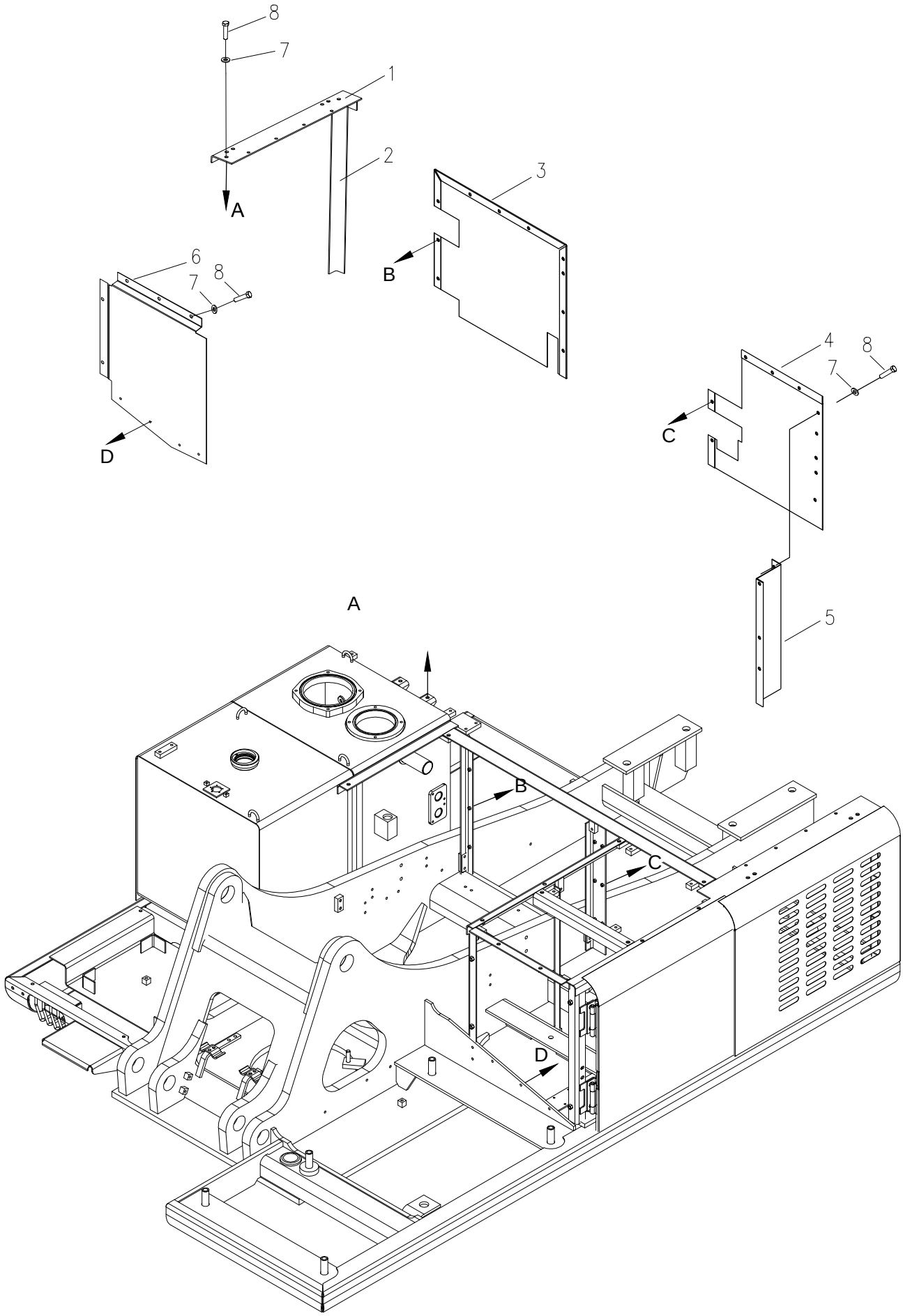
Fig. 5010 MACHINERY COMPARTMENT (1/6)



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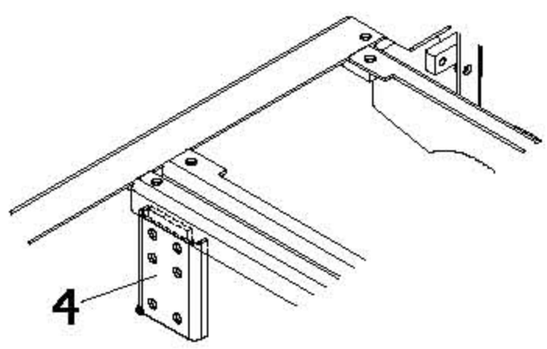
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 EH 03228	FRAME ASSY	1	
02	156 EH 03155	FRAME ASSY	1	
03	156 EH 03163	FRAME ASSY	1	
04	156 EH 02442	FRAME	1	
05	156 EH 03171	FRAME ASSY	1	
06	156 EH 03188	FRAME ASSY	1	
07	156 EH 03196	PLATE ASSY	1	
08	156 EH 13012	ANGLE	1	
09	CFS01 31230	SCREW	24	
10	CFW05 12032	WASHER	24	

FIG. 5020 MACHINERY COMPARTMENT (2/6)

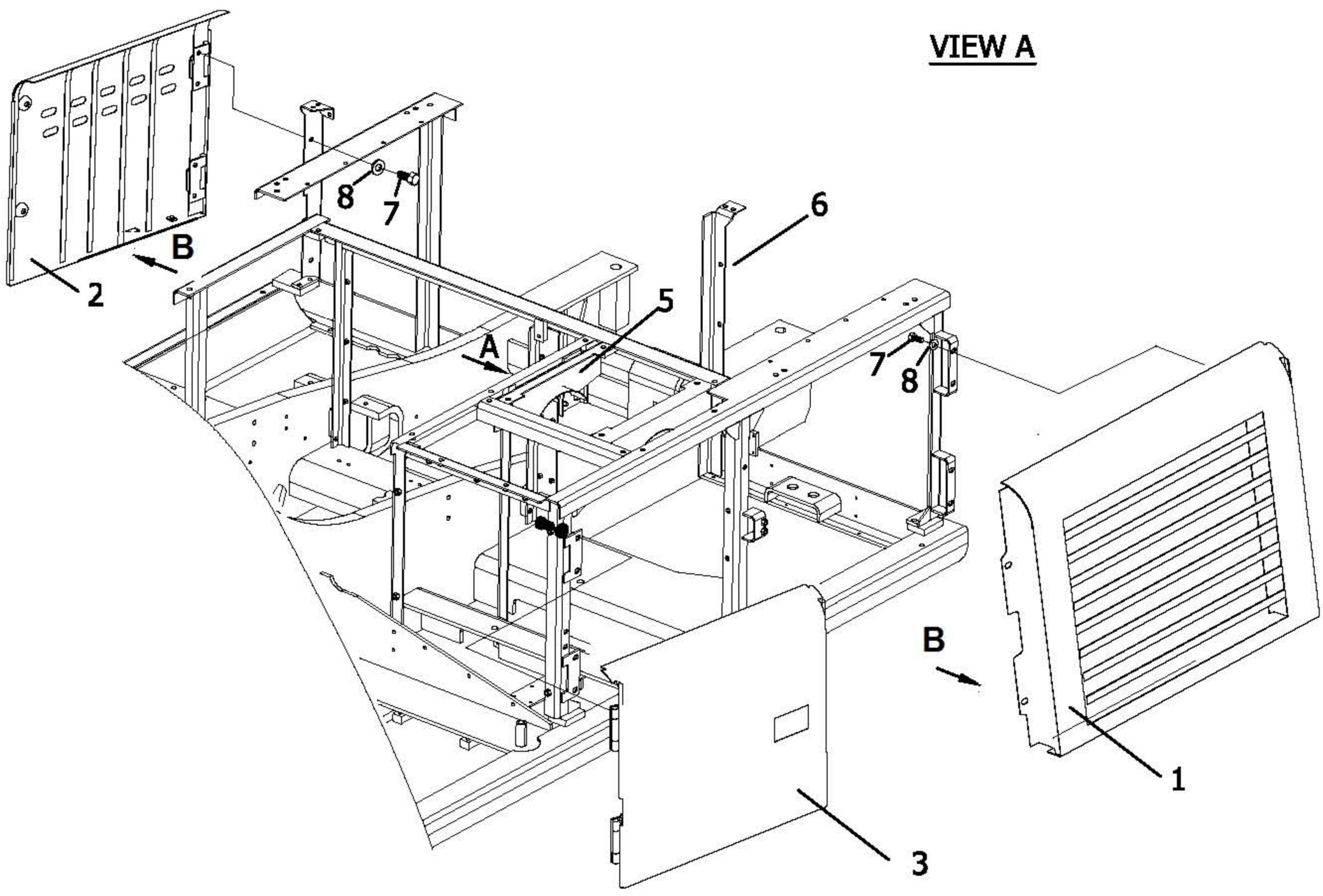


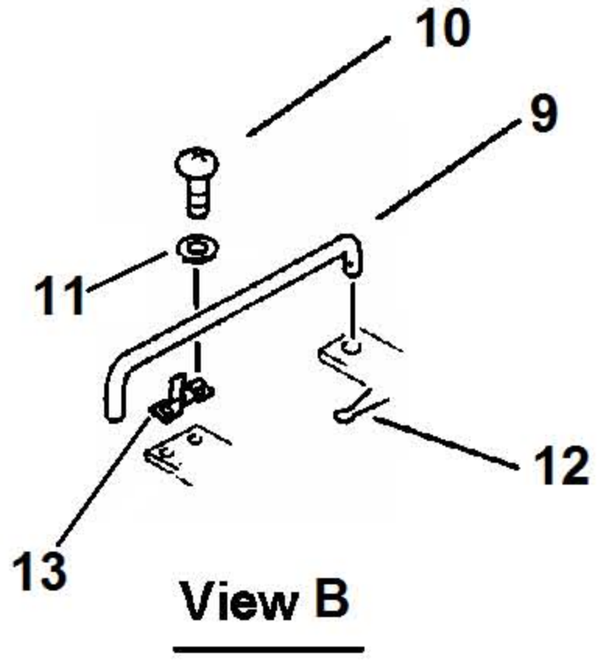
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 EH 13126	BRACKET	1	
02	156 EH 13134	FRAME ASSY	1	
03	156 EH 13183	PARTITION PLATE	1	
04	156 EH 13191	PLATE	1	
05	156 EH 02637	PLATE ASSY	1	
06	156 EH 13272	PLATE	1	
07	CFW05 12032	WASHER	34	
08	CFS01 31230	SCREW	34	

Fig. 5030 MACHINERY COMPARTMENT (3/6)



VIEW A

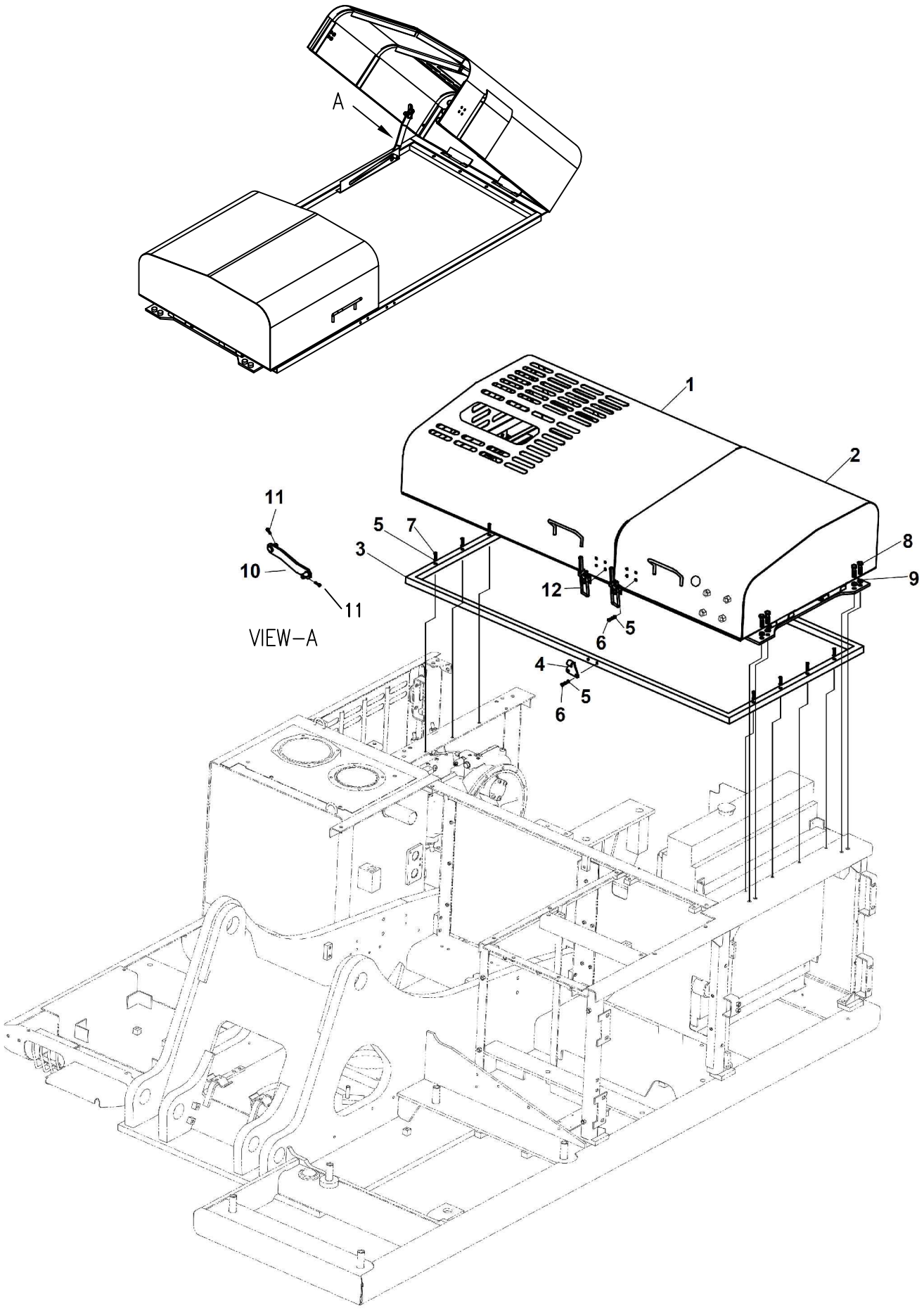




View B

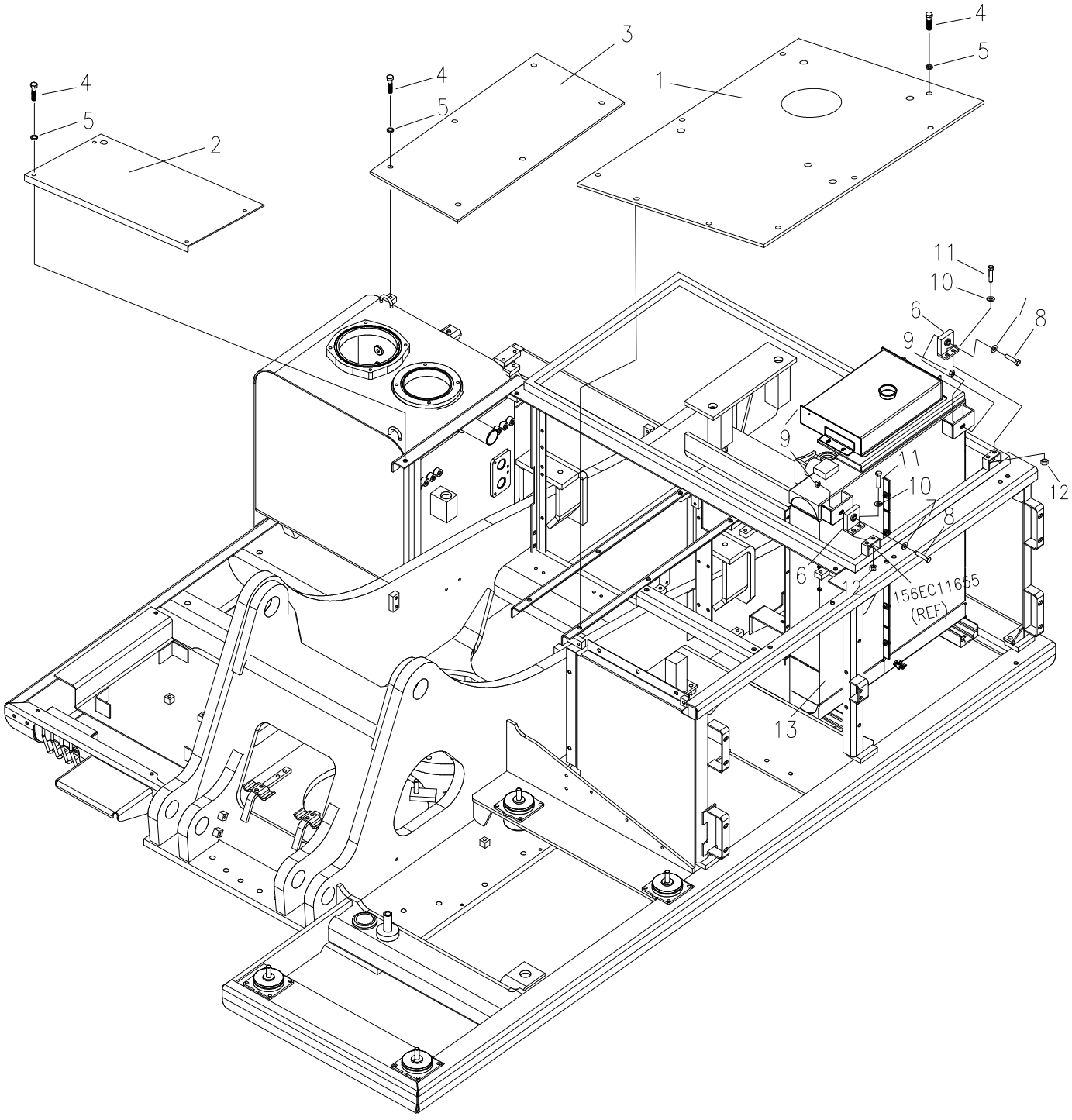
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 EH 02483	DOOR (RADIATOR SIDE)	1	
02	156 EH 02531	DOOR (PUMP SIDE)	1	
03	156 EH 02548	DOOR (CABIN SIDE)	1	
04	156 EH 03203	PLATE ASSY	1	
05	156 EH 03211	PLATE ASSY	2	
06	156 EH 13142	BRACKET	1	
07	CFS01 31025	SCREW	16	
08	CFW05 10032	WASHER	16	
09	155 EH 12683	BAR	3	
10	CFS15 10408	SCREW	6	
11	CFW03 10408	WASHER	6	
12	CFP01 03218	PIN, COTTER	3	
13	155 EH 13063	SPRING	3	

FIG. 5040 MACHINERY COMPARTMENT (4/6) A



ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 EH 03139	ENGINE HOOD	1	
02	156 EH 03147	ENGINE HOOD	1	
03	156 EH 04038	PLATE	1	
04	156 EH 13459	BRACKET	4	
05	CFW05 08023	WASHER	24	
06	CFS01 30825	BOLT	24	
07	CFS01 30645	BOLT	8	
08	CFS01 31225	BOLT	8	
09	CFWO5 12032	WASHER	8	
10	171 EH 02195	STAY	1	
11	CFP01 04040	PIN	2	
12	156 EH 03244	HOOD CATCHER ASSY	4	

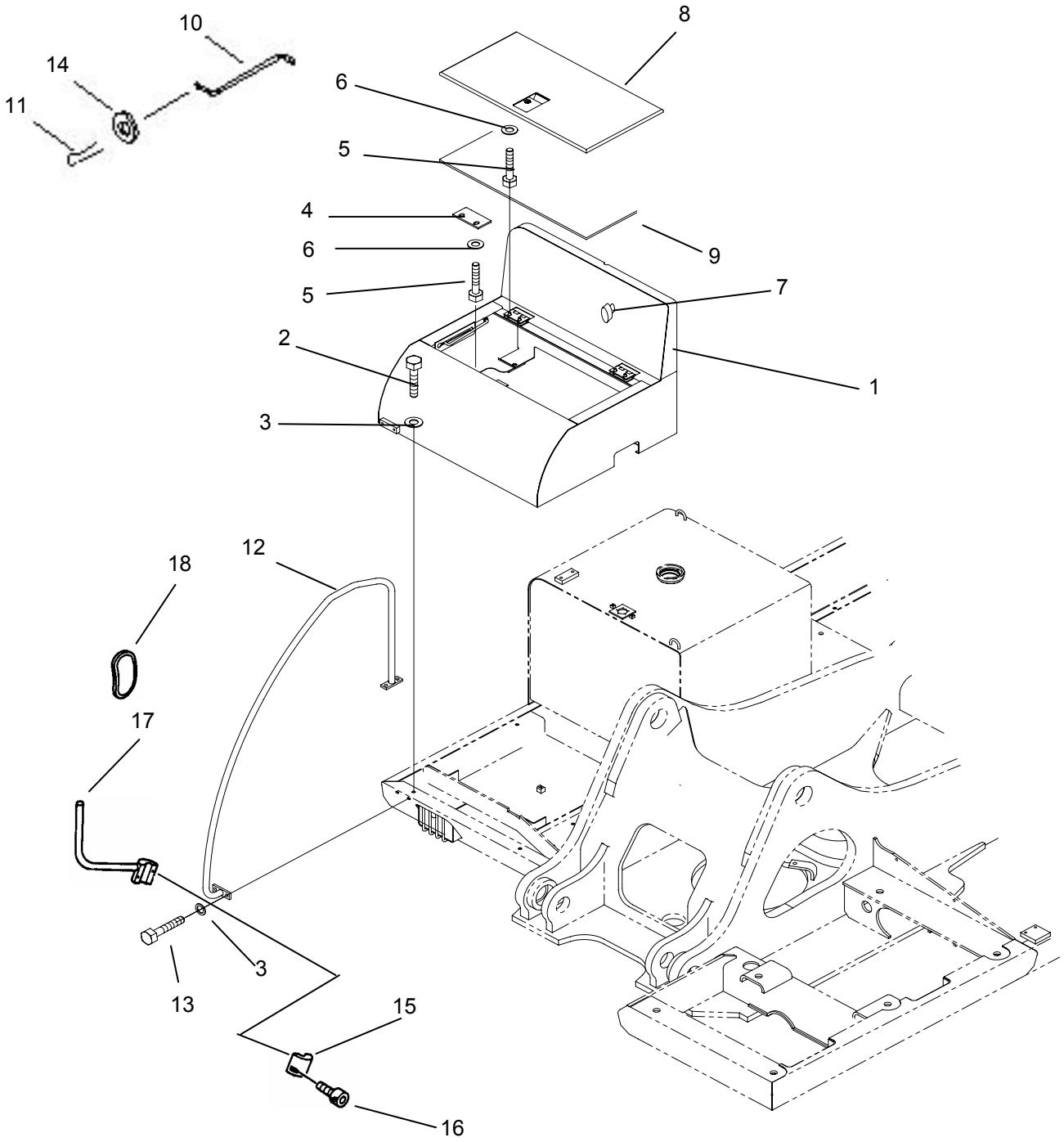
FIG. 5040 MACHINERY COMPARTMENT (4/6) B



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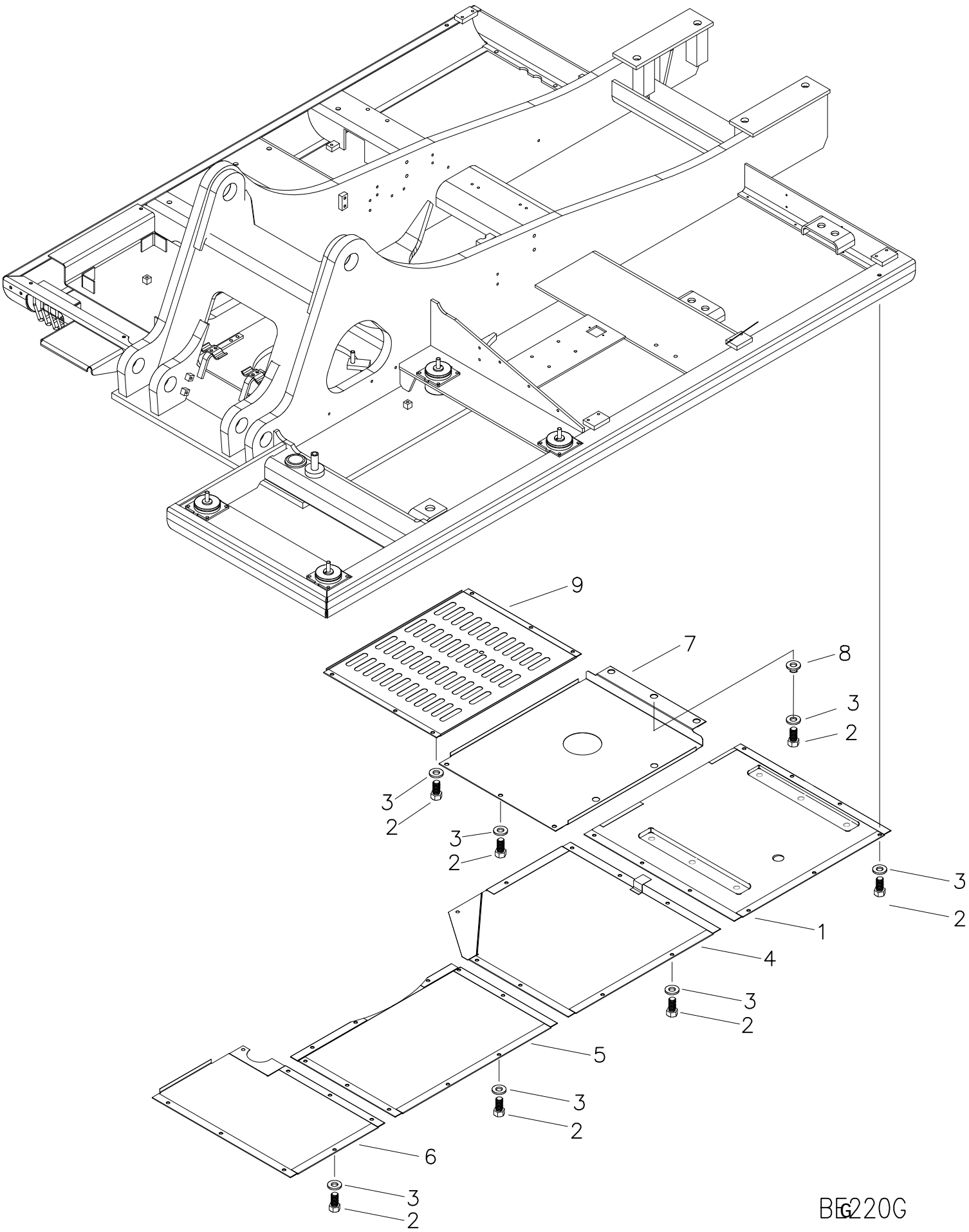
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 EH 13937	COVER	1	
02	156 EH 13223	COVER	1	
03	156 EH 02645	COVER ASSY	1	
04	CFS01 31225	BOLT	19	
05	CFW05 12032	WASHER	19	
06	155 EC 02025	DAMPER ASSY	2	
07	CFW05 10032	WASHER	2	
08	CFS01 21060	SCREW	2	
09	CFN01 21084	NUT	2	
10	CFW05 12032	WASHER	4	
11	CFS01 21230	SCREW	4	
12	CFN01 21211	NUT	4	
13	156 EC 03117	COOLER ASSY	1	

FIG. 5050 MACHINERY COMPARTMENT (5/6)



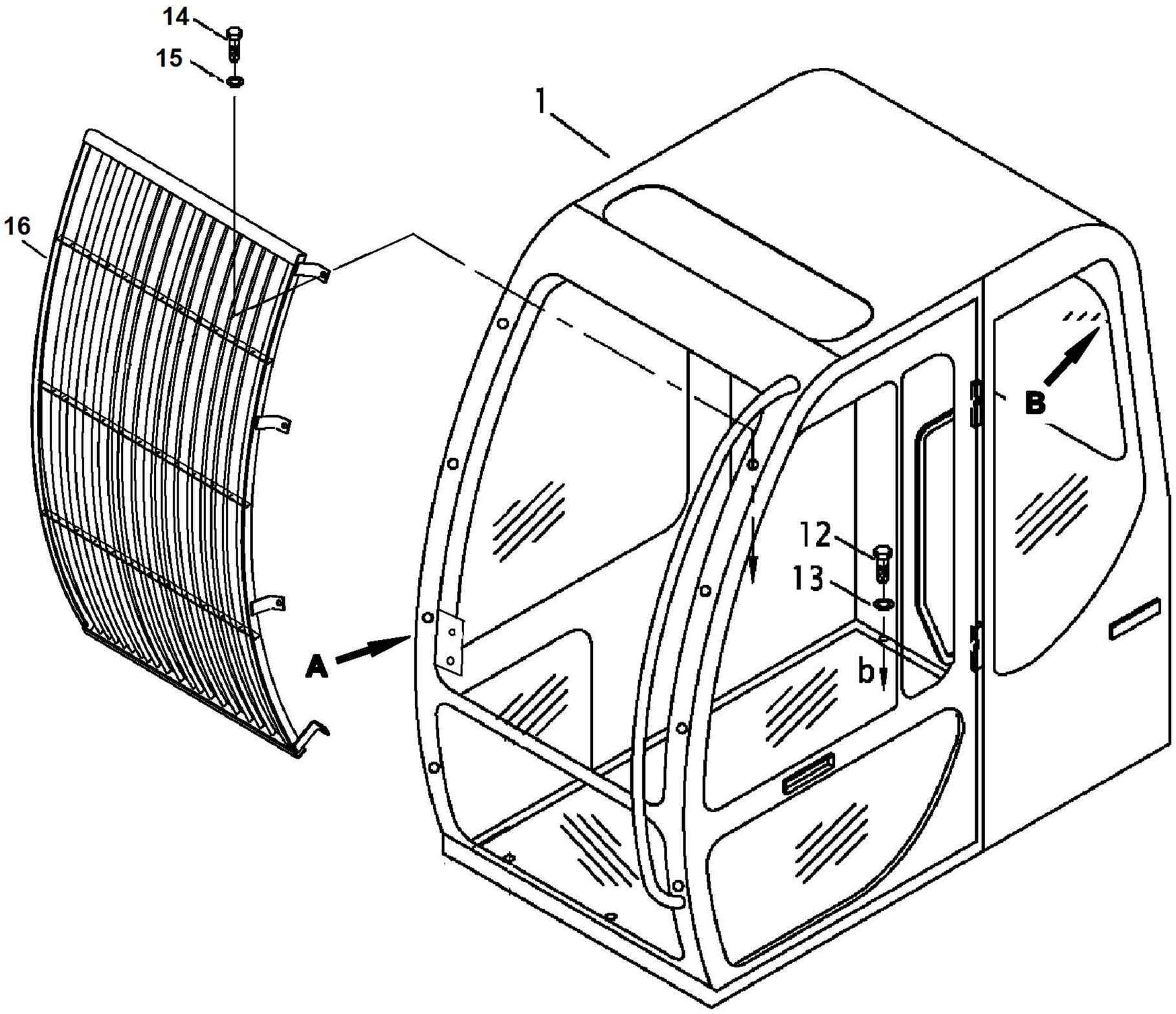
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	154 EH 03012	BATTERY BOX	1	
02	CFS01 31225	SCREW	4	
03	CFW05 12032	WASHER	8	
04	154 EH 10392	PLATE	1	
05	CFS01 21020	SCREW	6	
06	CFW01 11030	WASHER SPRING	6	
07	155 EH 63057	STOPPER	2	
08	154 EH 03029	DOOR	1	
09	154 EH 60386	SEAL	1	
10	154 EH 10408	ROD	1	
11	CFP01 01612	SPLIT PIN	2	
12	154 EH 02195	HAND RAIL ASSY.	1	
13	CFS01 31230	SCREW	4	
14	CFW05 06023	WASHER	2	
15	155 EH 12618	CLAMP	1	
16	CFS13 41025	SCREW	2	
17	155 EH 02306	SUPPORT	1	
18	375 FE 91323	MIRROR	1	

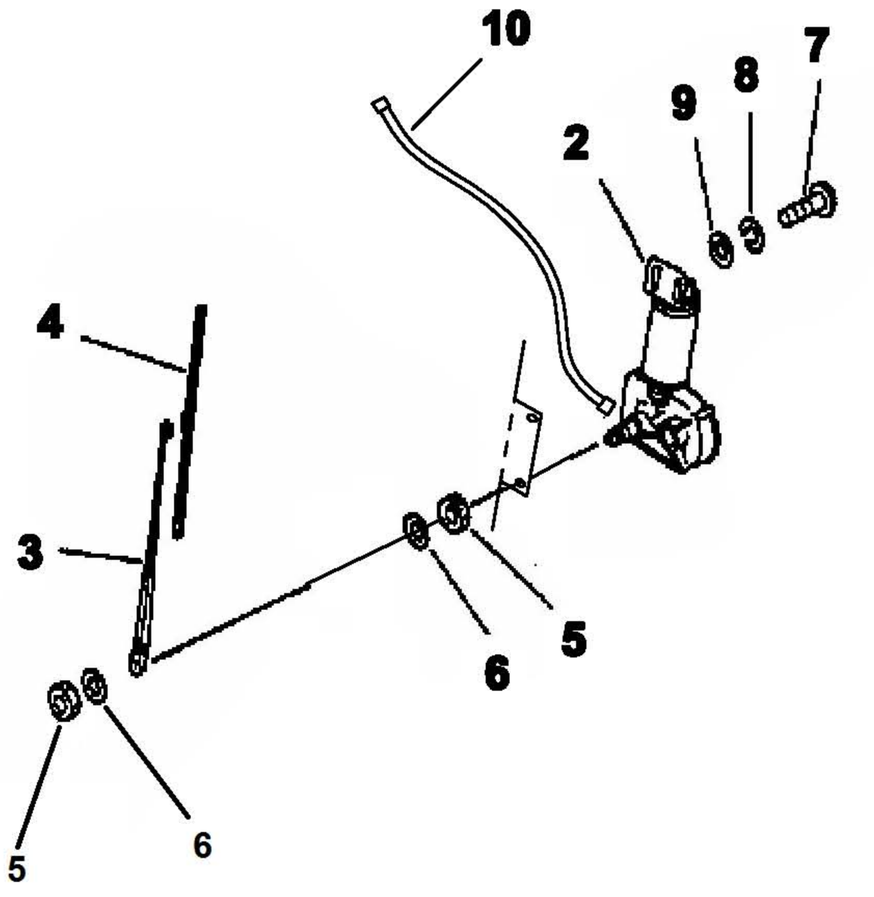
FIG. 5060 MACHINERY COMPARTMENT (6/6)



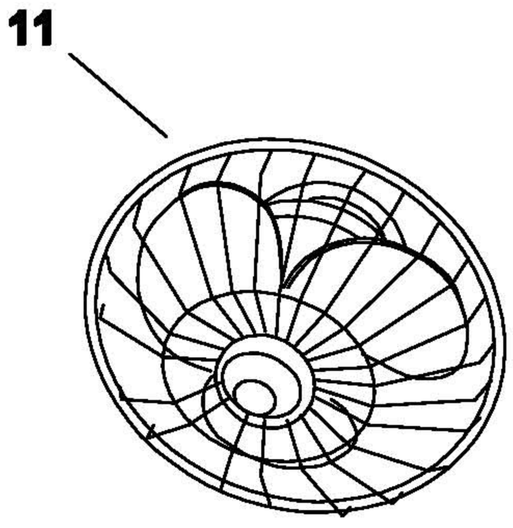
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 EH 13167	BOTTOM COVER (COOLER	1	
02	CFS01 31225	SCREW	49	
03	CFW05 12032	WASHER	49	
04	156 EH 02142	COVER	1	
05	156 EH 11222	PLATE	1	
06	156 EH 11239	PLATE	1	
07	156 EH 13589	COVER	1	
08	155 EH 12626	COLLAR	3	
09	156 EH 13175	BOTTOM COVER (PUMP	1	

FIG 5071 OPERATOR'S CAB (1/2)





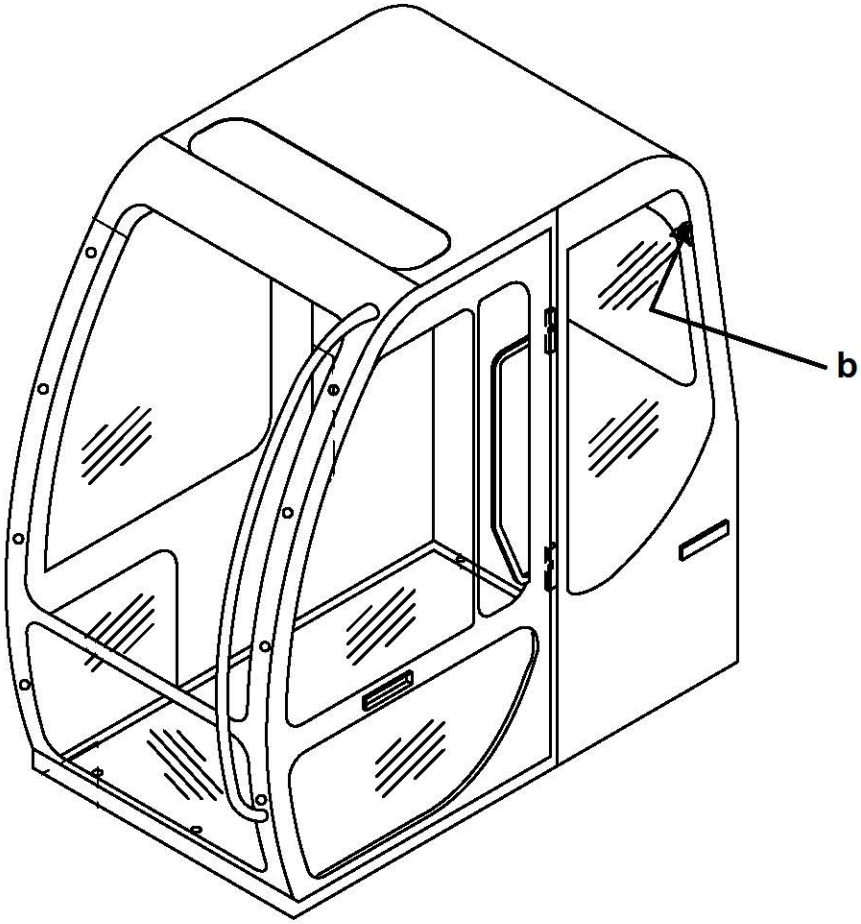
Detail A

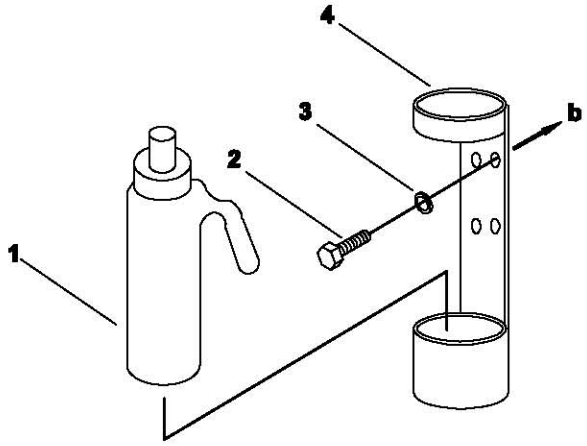


Detail B

ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	799 CC 01001	CABIN ASSY	1	
02	155 CC 94558	.WIPER MOTOR ASSY	1	
03	155 CC 02508	.ARM	1	
04	155 CC 02492	.BLADE	1	
05	155 CC 14497	.NUT	2	
06	155 CC 14504	.WASHER	2	
07	CFS15 10516	.SCREW	2	
08	CFW01 10513	.WASHER,SPRING	2	
09	CFW02 10510	.WASHER	2	
10	155 EG 02166	WIRE HARNESS	1	
11	175 CC 02073	FAN 24V	1	OPTIONAL
12	CFS01 31020	SCREW	4	
13	CFW05 10032	WASHER	4	
14	CFS01 31025	SCREW	8	
15	CFW01 31030	WASHER	8	
16	799 FG 02022	GUARD ASSY	1	

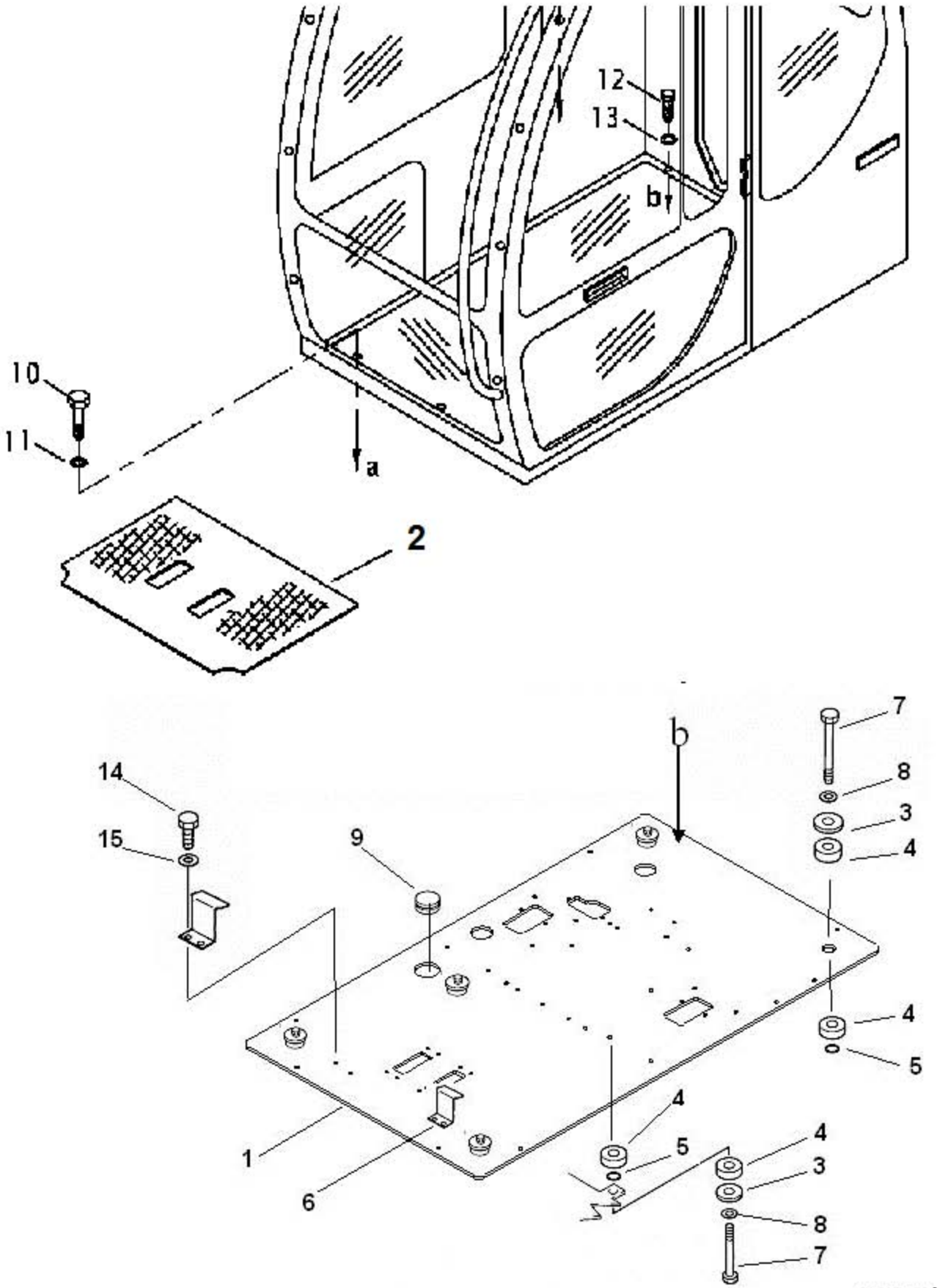
FIG 5061 OPERATOR'S CAB (2/2)





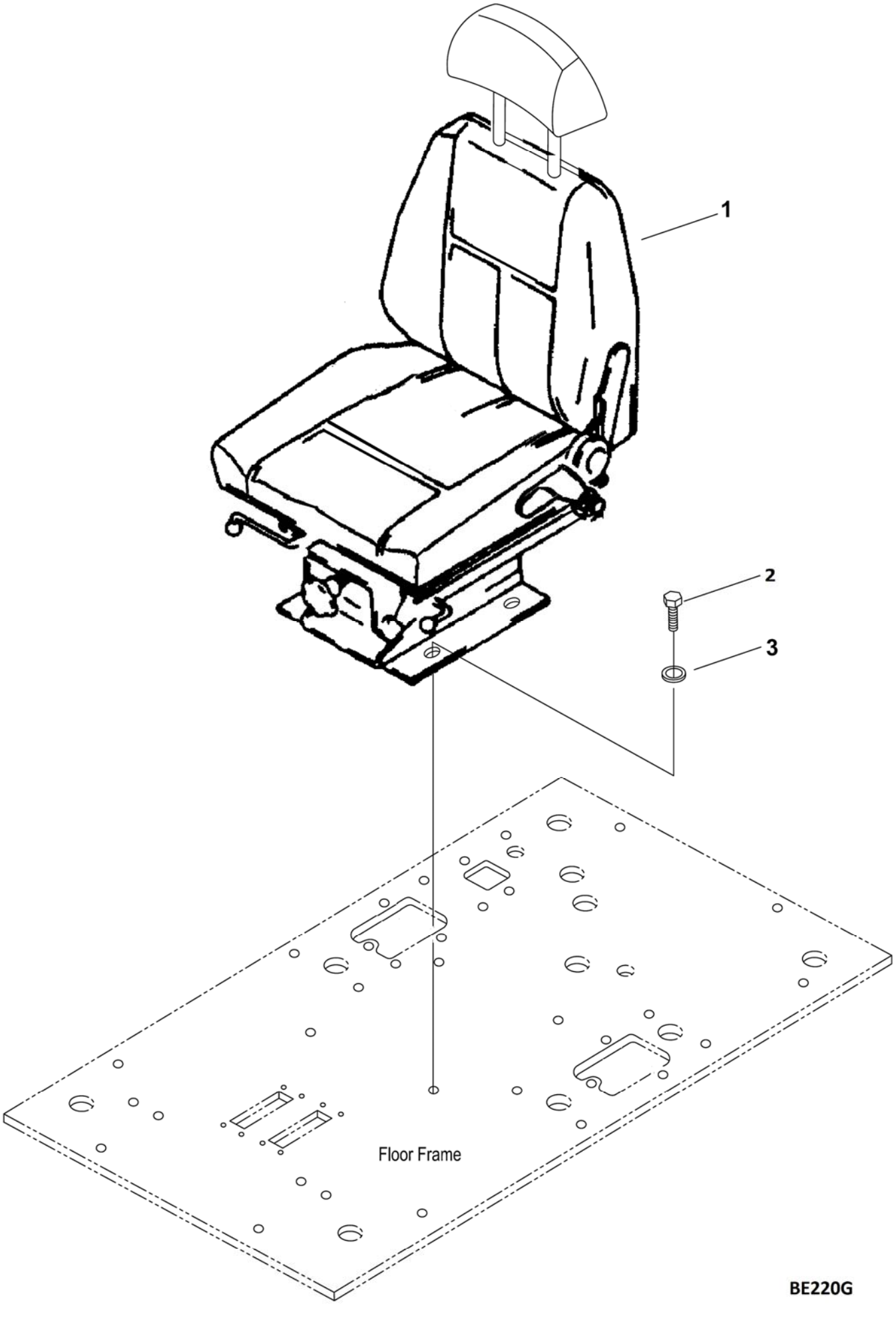
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
00	#799 CC 01001	CABIN ASSY		
01	125 EF 91167	FIRE EXT (2 kg)	1	
01A	125 EF 91401	FIRE EXT (5 kg)	1	OPTIONAL
02	CFS01 20616	BOLT	6	
03	CFW01 10619	WASHER SPRING	6	
04	171 EF 02019	BRACKET (2 kg)	1	
05	125 EF 02058	BRACKET (5 kg)	1	OPTIONAL

FIG: 5140 OPERATOR'S CAB, FLOOR FRAME



ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 HP 02007	FRAME FLOOR	1	
02	156 HP 90014	MAT FLOOR	1	
03	113 CX 11773	PLATE	6	
04	155 HP 61156	CUSHION	12	
05	CHS01 13028	O RING	6	
06	155 CO 14001	BRACKET	2	
07	CFB02 21610	BOLT	6	
08	CFW05 16045	WASHER	6	
09	CGR05 05016	CAP	2	
10	CFB01 21250	BOLT	3	
11	CFW05 12032	WASHER	3	
12	CFB01 21270	BOLT	6	
13	CFW05 12032	WASHER	6	
14	CFS01 31025	SCREW	4	
15	CFW05 10032	WASHER	4	

FIG: 5150 OPERATOR'S SEAT



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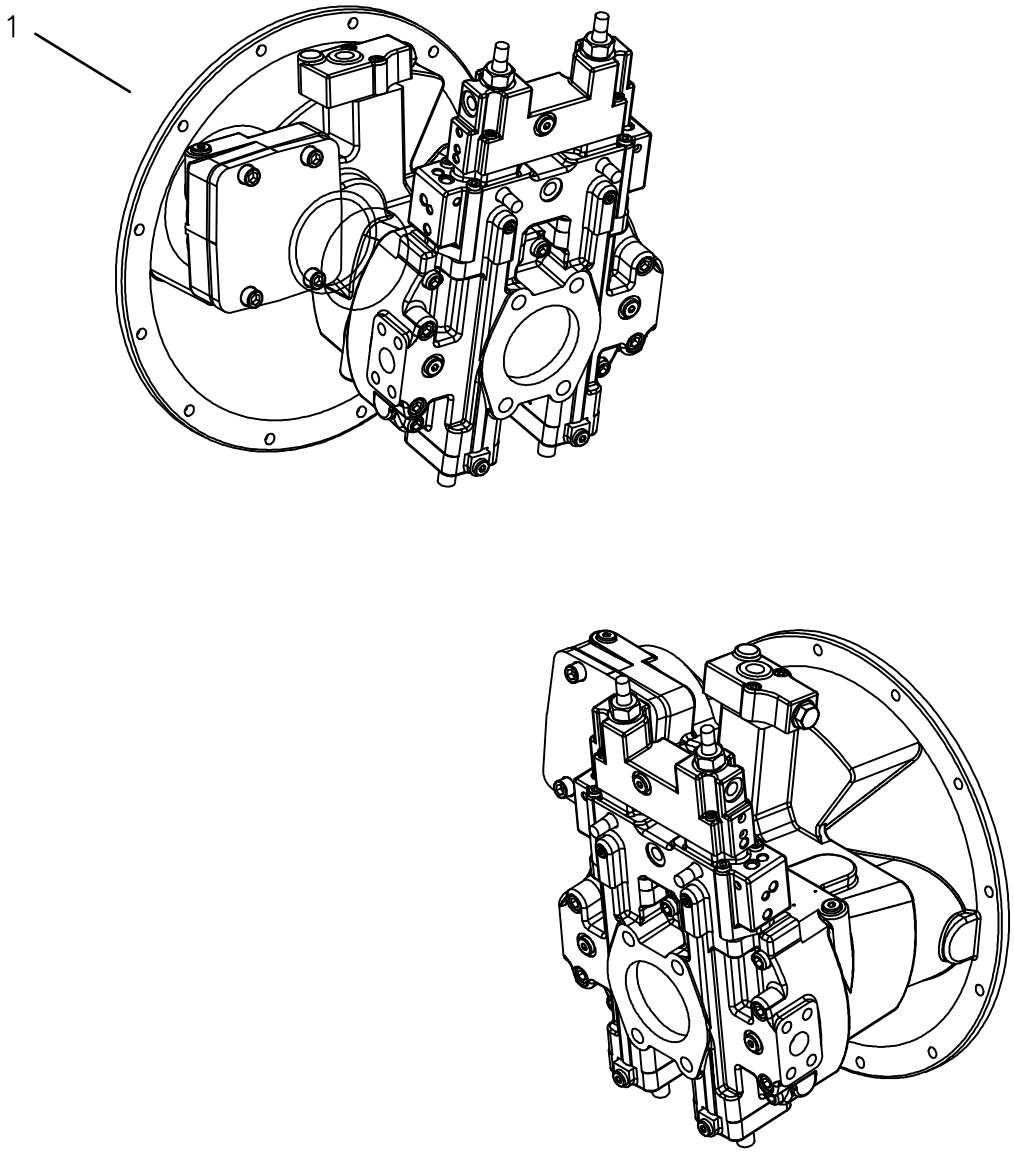
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	183 OS 90024	OPERATOR SEAT	1	
02	CFS01 31030	SCREW	4	
03	CFW05 10032	WASHER	4	

LEFT BLANK

VI. WORK EQUIPMENT

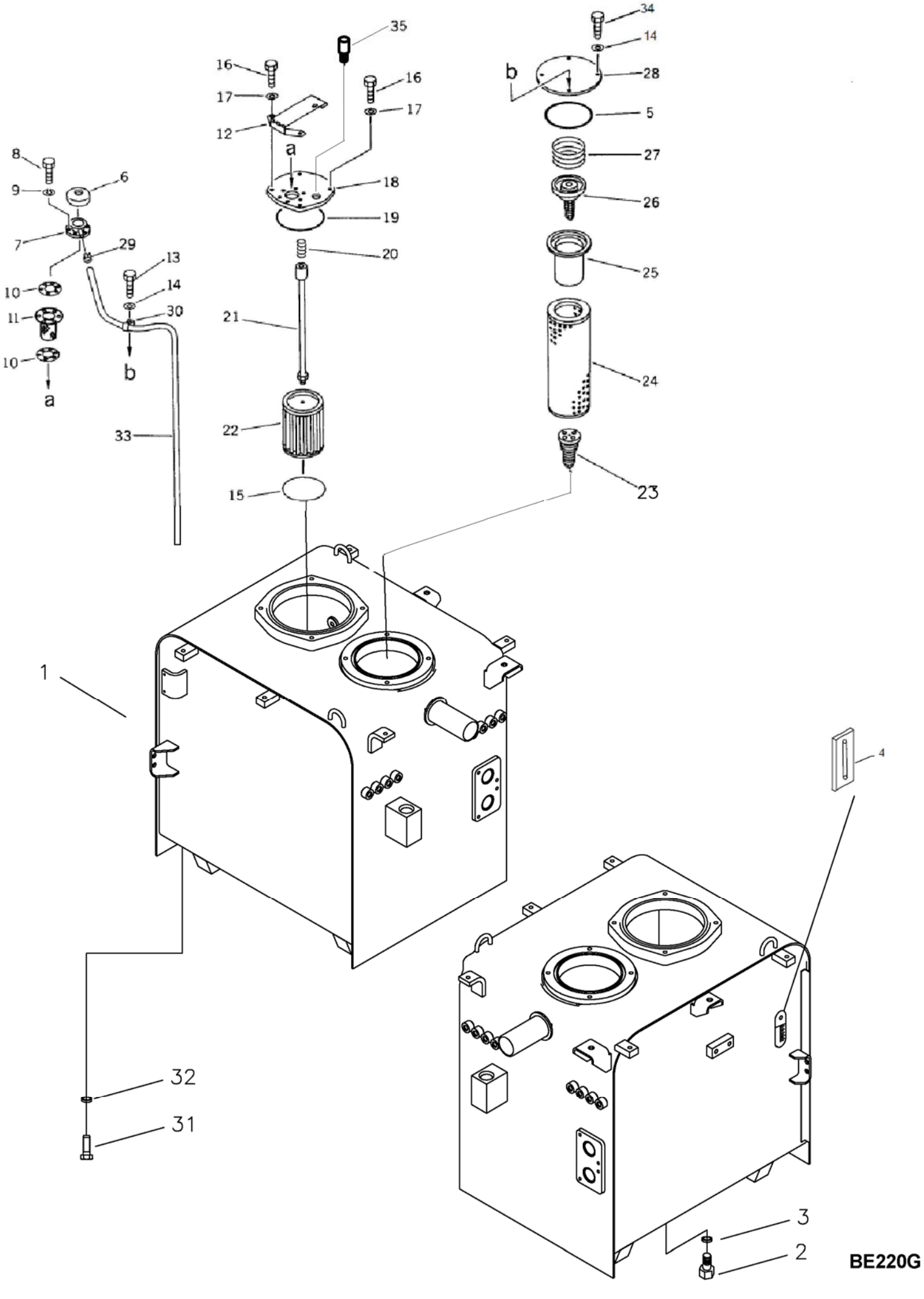
CONTROL SYSTEM

FIG. 6000 HYDRAULIC PUMP



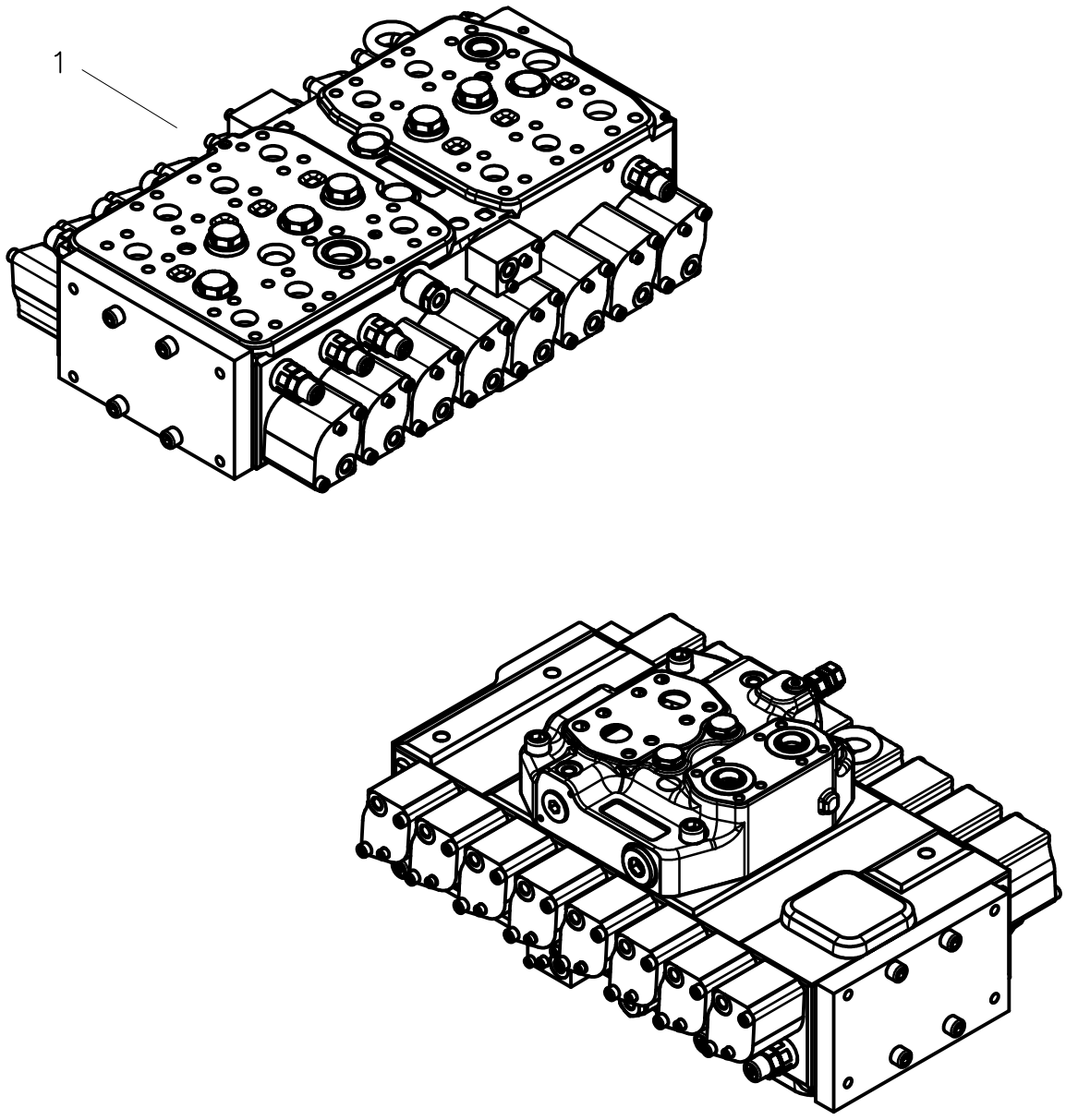
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 PM 91216	HYDRAULIC PUMP ASSY	1	

FIG. 6080 HYDRAULIC TANK



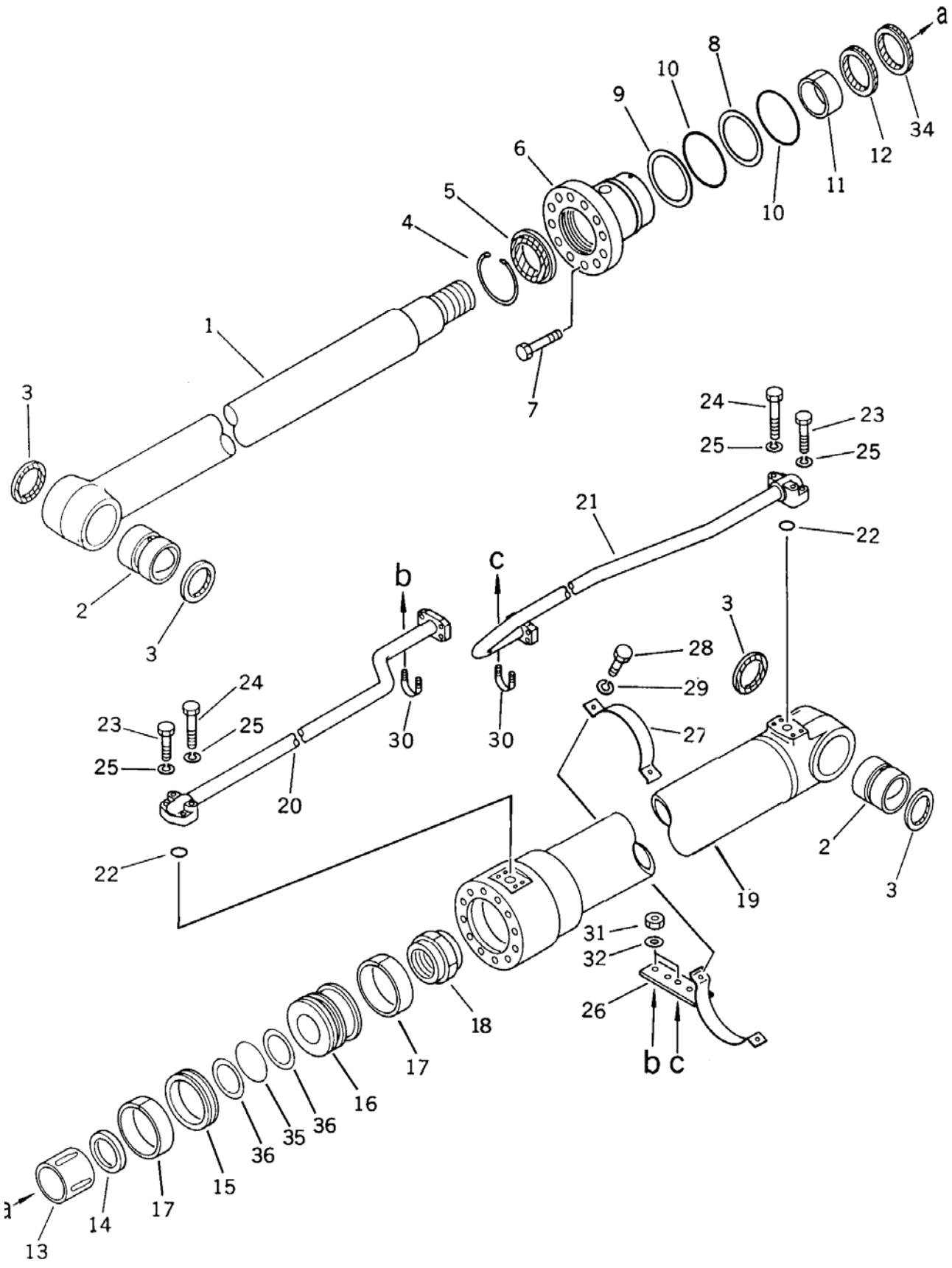
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
	156 HS 01068	HYDRAULIC TANK ASSY	1	
01	156 HS 02056	TANK, HYDRAULIC	1	
02	CPL03 13620	.PLUG	1	
03	CHS03 13634	.O RING	1	
04	762 HS 03279	.LEVEL INDICATOR	1	
05	CHS01 15180	.O RING	1	
06	155 HS 02058	.CAP ASSY	1	
07	155 HS 02041	.FILLER, NECK	1	
08	CFS15 10516	.SCREW	6	
09	CFW01 10513	.WASHER SPRING	6	
10	155 HS 71808	.GASKET	2	
11	171 HS 91047	.SCREEN	1	
12	155 HS 02147	.COVER ASSY.	1	
13	CFS01 31230	.SCREW	1	
14	CFW05 12032	.WASHER	5	
15	181 HS 61009	.O RING	1	
16	CFS01 31235	.SCREW	4	
17	CFW05 12032	.WASHER	4	
18	156 HS 02023	.COVER	1	
19	CHS01 15230	.O RING	1	
20	155 HS 11949	.SPRING	1	
21	156 HS 02031	.SUPPORT	1	
22	171 HS 91209	.STRAINER	1	
23	156 HS 02186	.VALVE ASSY.	1	
24	155 HS 02074	.FILTER ASSY.	1	
25	155 HS 02066	.STRAINER	1	
26	155 HS 02114	.VALVE ASSY	1	
27	155 HS 11957	.SPRING	1	
28	155 HS 11349	.COVER	1	
29	CCC08 00100	CLIP	1	
30	CCC06 11214	CLIP	1	
31	CFS01 31635	SCREW	4	
32	CFW05 16045	WASHER	4	
33	155 HS 71468	TUBE	1	
34	CFS01 31245	SCREW	4	
35	985 TK 02053	AIR BREATHER	1	

FIG. 6090 CONTROL VALVE



ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 HM 91224	CONTROL VALVE	1	

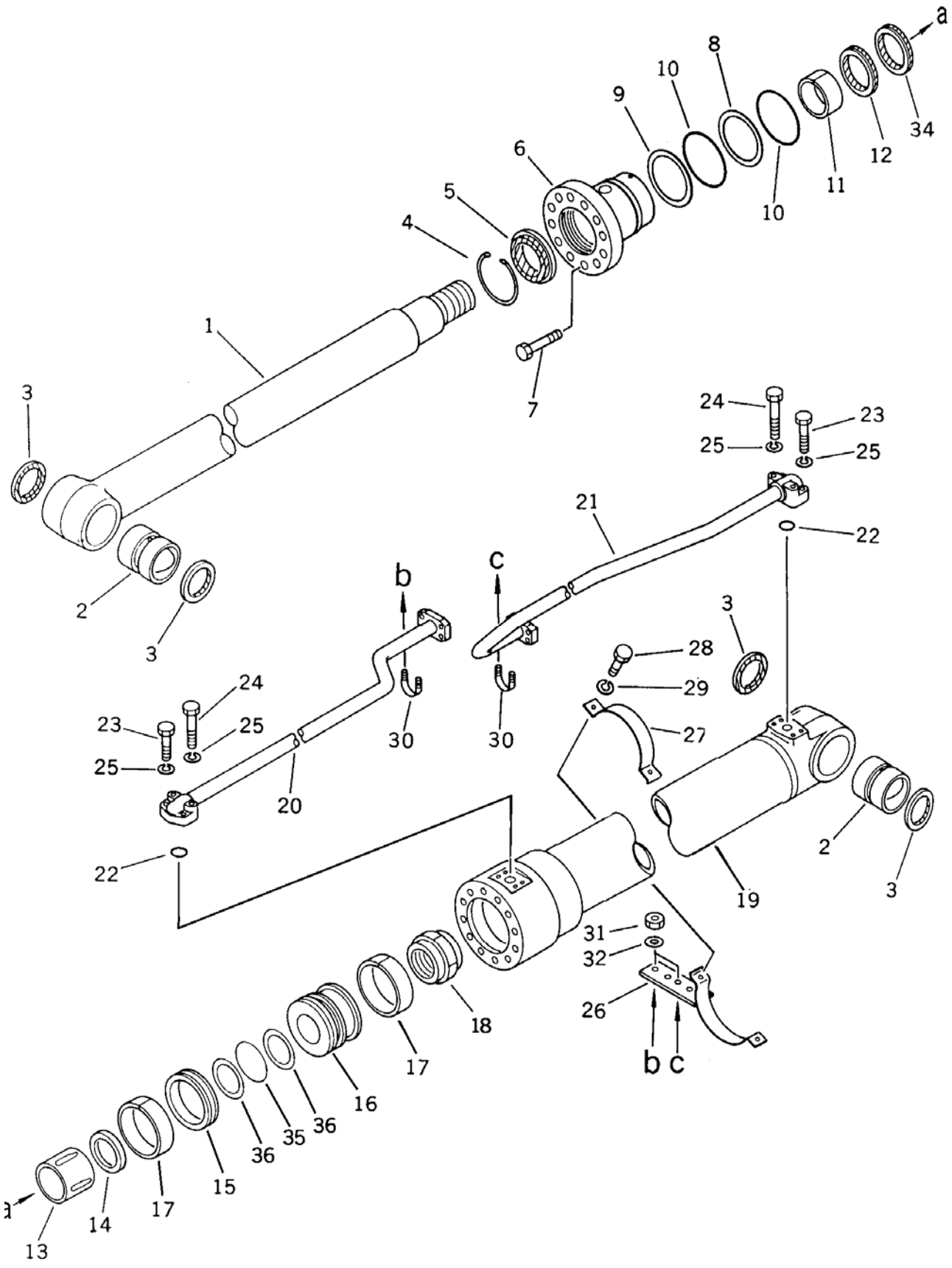
FIG: 6130 BOOM CYLINDER



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ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
	155 HC 09021	BOOM CYL ASSY LH	1	
	155 HC 09038	BOOM CYL ASSY RH	1	
01	155 HC 09102	.ROD PISTON	1	
02	155 HC 11784	.BUSHING	2	
03	CSD01 00080	.SEAL DUST	4	K1
04	CFL10 13104	.RING SNAP	1	
05	155 HC 61226	.SEAL DUST	1	K1
06	155 HC 19139	.HEAD CYLINDER	1	
07	CFB01 21670	.BOLT	12	
08	155 HC 79144	.RING BACK-UP	2	K1
09	155 HC 79152	.RING BACK-UP	1	K1
10	CHS01 15120	.O RING	2	K1
11	CSB02 09040	.BUSHING	1	K1
12	155 HC 99127	.PACKING ROD	1	K1
13	155 HC 19099	.PLUNGER	1	
14	155 HC 11613	.RETAINER	1	
15	155 HC 99087	.RING PISTON	1	K1
16	155 HC 19066	.PISTON	1	
17	155 HC 79071	.RING WEAR	2	K1
18	155 HC 91301	.NUT	1	K1
19	155 HC 02225	.CYLINDER	1	
20	155 HC 02233	.TUBE LH	1	
	155 HC 02266	.TUBE RH	1	
21	155 HC 02241	.TUBE LH	1	
	155 HC 02274	.TUBE RH	1	
22	CHS01 13030	.O RING	2	K1
23	CFB01 20845	.BOLT	4	
24	CFB01 20855	.BOLT	4	
25	CFW01 10825	.WASHER SPRING	8	
26	155 HC 02258	.BRACKET	1	
27	155 HC 11816	.BAND	1	
28	CFS01 31035	.SCREW	2	
29	CFW01 11030	.WASHER SPRING	2	
30	CCC07 22738	.CLIP	2	
31	CFN28 11011	.NUT	4	
32	CFW05 10032	.WASHER	4	
33	CFW06 16045	.WASHER	12	
34	155 HC 99119	.RING BUFFER	1	K1
35	CHS01 12070	.O RING	1	K1
36	CHS02 02070	.RING BACK-UP	2	K1
	$CHC01 08048	.COVER	2	

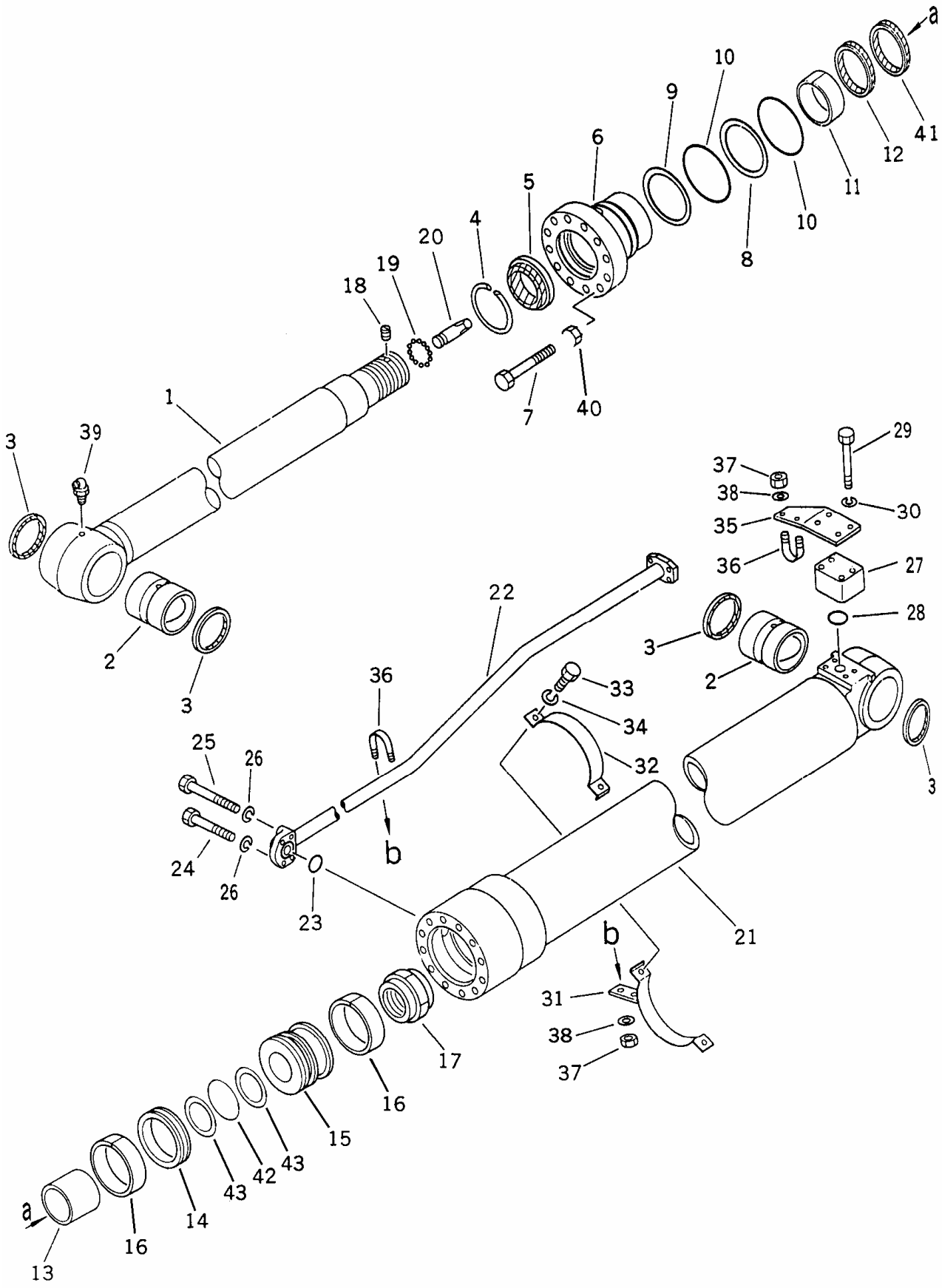
FIG: 6130 BOOM CYLINDER



BE220G

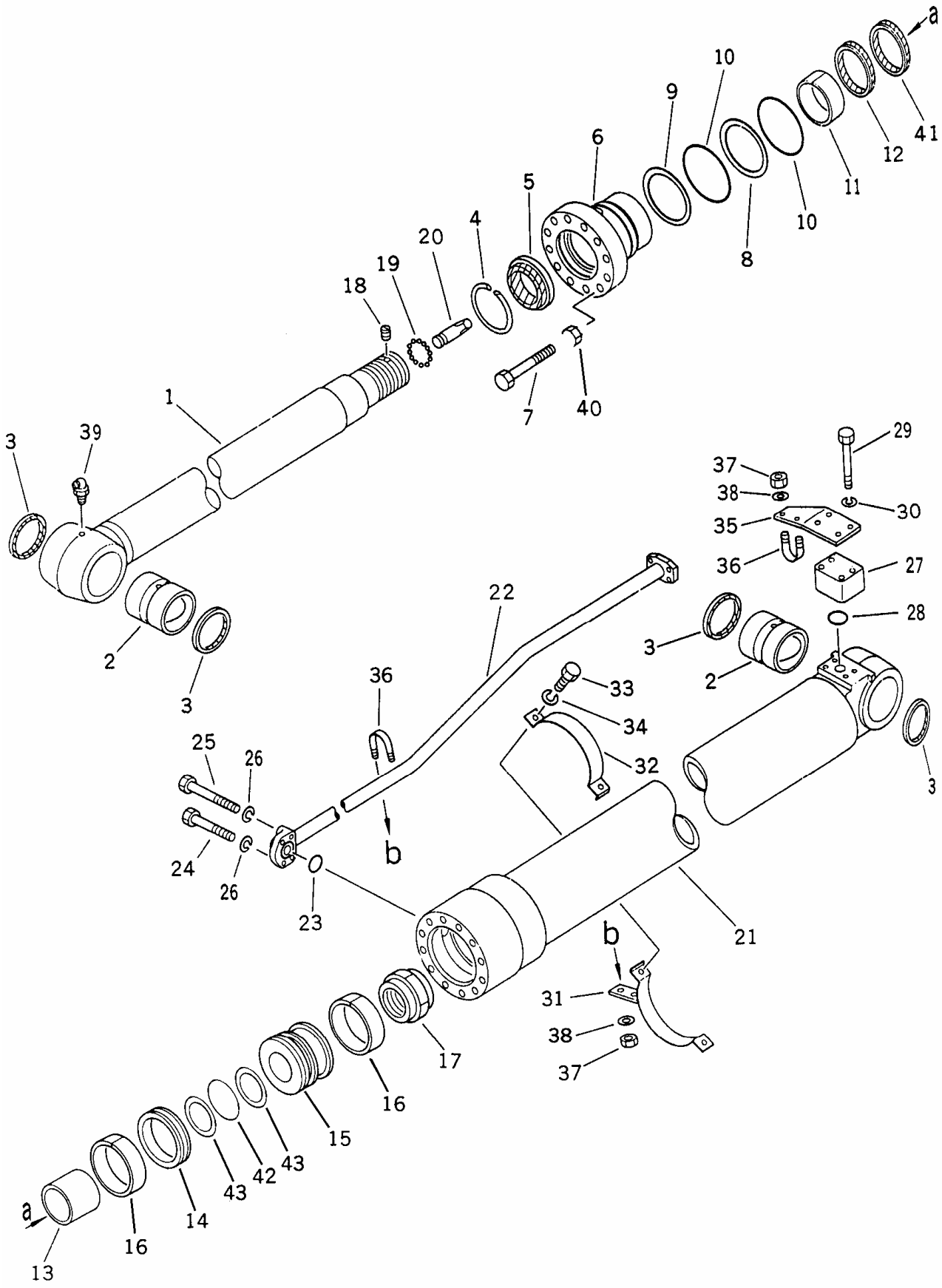
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
	#155 HC 02371	.SEAL KIT (K1)	1	

FIG: 6140 ARM CYLINDER



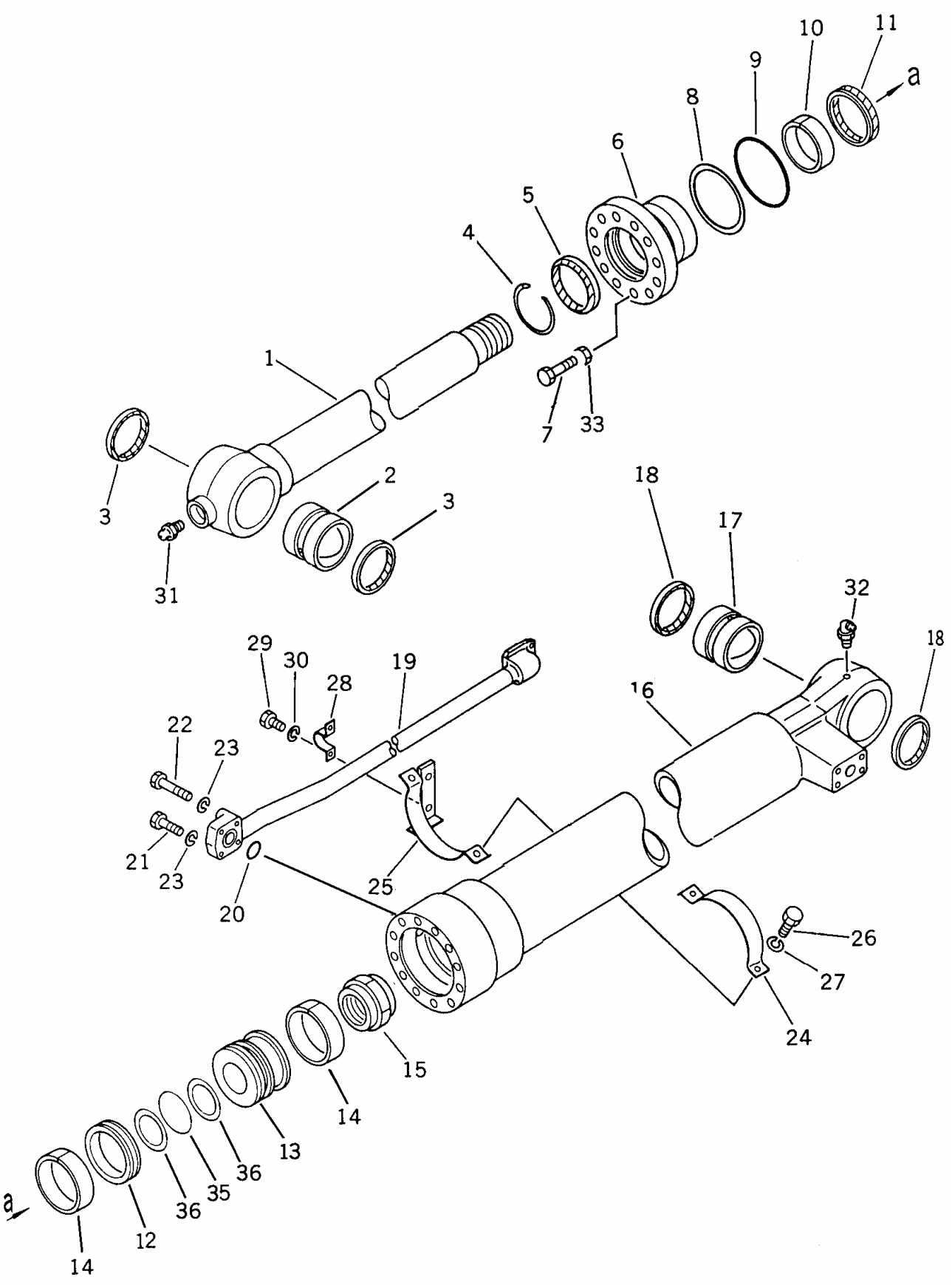
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
	155 HC 09046	ARM CYLINDER ASSY	1	
01	155 HC 09232	.ROD PISTON	1	
02	155 HC 11784	.BUSHING	2	
03	CSD01 00080	.SEAL DUST	4	K2
04	CFL10 13114	.RING SNAP	1	
05	155 HC 91959	.SEAL DUST	1	K2
06	155 HC 19269	.HEAD CYLINDER	1	
07	CFB07 21875	.BOLT	12	
08	155 HC 79241	.RING BACK-UP	2	K2
09	155 HC 79274	.RING BACK-UP	1	K2
10	CHS01 15130	.O RING	2	K2
11	CSB02 01040	.BUSHING	1	K2
12	155 HC 92014	.PACKING ROD	1	K2
13	155 HC 11662	.PLUNGER	1	
14	155 HC 99216	.RING PISTON	1	K2
15	155 HC 19025	.PISTON	1	
16	155 HC 79225	.RING WEAR	2	K2
17	155 HC 91301	.NUT	1	K2
18	155 HC 12034	.SCREW	1	
19	CBZ01 00635	.BALL	12	
20	155 HC 12026	.PLUNGER	1	
21	155 HC 02339	.CYLINDER	1	
22	155 HC 02347	.TUBE	1	
23	CHS01 13030	.O RING	1	K2
24	CFB01 20845	.BOLT	2	
25	CFB01 20855	.BOLT	2	
26	CFW01 10825	.WASHER SPRING	4	
27	155 HC 11962	.ELBOW	1	
28	CHS01 13030	.O RING	1	K2
29	CFB01 21080	.BOLT	4	
30	CFW01 11030	.WASHER SPRING	4	
31	155 HC 02355	.BAND	1	
32	155 HC 12067	.BAND	1	
33	CFS01 31035	.SCREW	2	
34	CFW01 21030	.WASHER SPRING	2	
35	155 HC 12042	.PLATE	1	
36	CCC07 22738	.CLIP	2	
37	CFN28 11011	.NUT	4	
38	CFW05 10032	.WASHER	4	
39	CLN01 10900	.GREASE NIPPLE	1	
40	155 HC 12075	.WASHER	12	

FIG: 6140 ARM CYLINDER



ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
41	155 HC 79258	.RING BUFFER	1	K2
42	CHS01 12070	.O RING	1	K2
43	CHS02 02070	.RING BACK-UP	2	K2
	$CHC01 08048	.COVER	1	
	$CHC01 10052	.COVER	1	
	#155 HC 02388	.SEAL KIT (K2)	1	

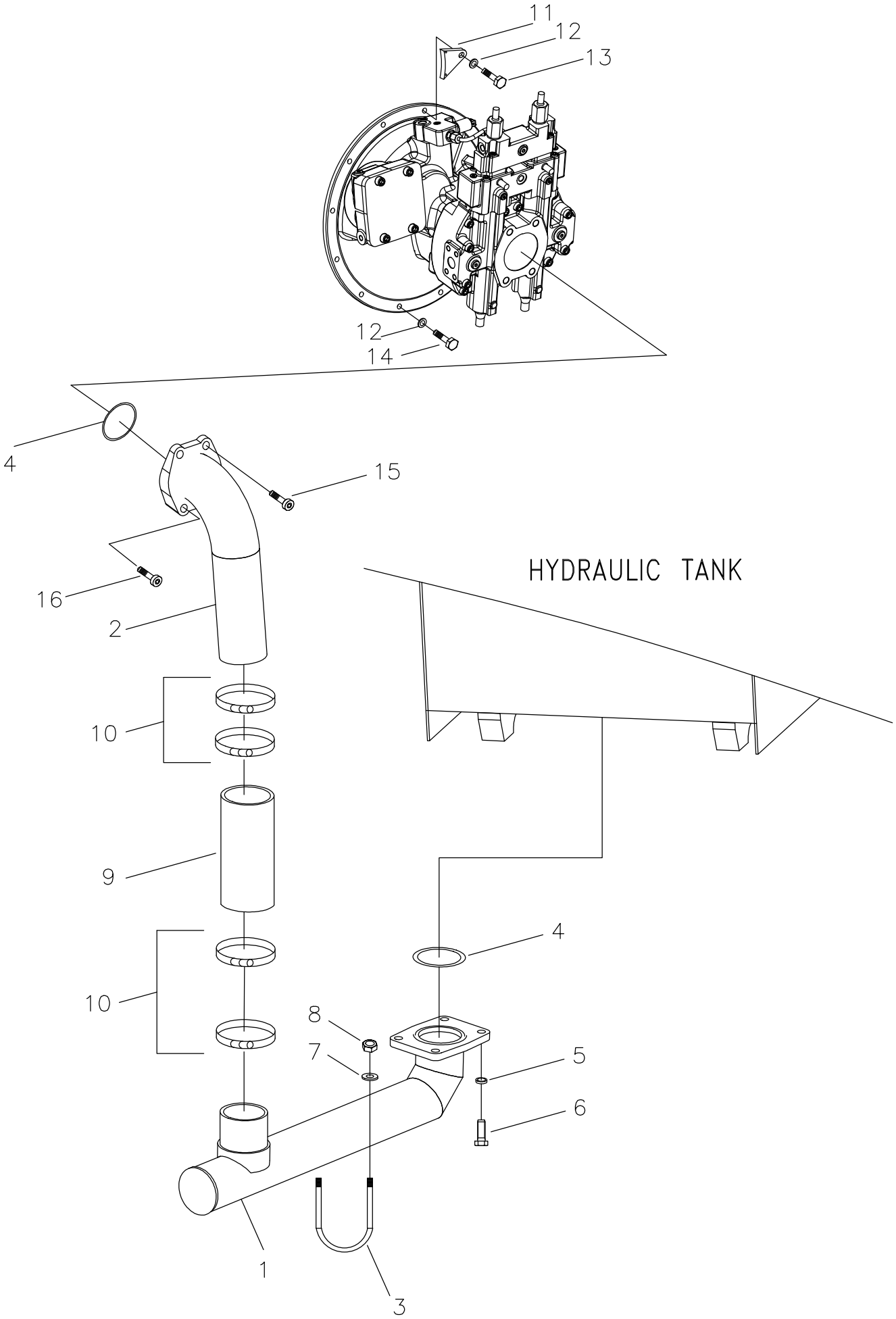
FIG: 6150 BUCKET CYLINDER



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ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
	155 HC 09054	BUCKET CYLINDER ASSY	1	
01	155 HC 09176	.ROD PISTON	1	
02	155 HC 11905	.BUSHING	1	
03	155 HC 91934	.SEAL DUST	2	K3
04	CFL10 13104	.RING SNAP	1	
05	155 HC 61226	.SEAL DUST	1	K3
06	155 HC 19188	.HEAD CYLINDER	1	
07	CFB01 21660	.BOLT	12	
08	155 HC 79152	.RING BACK-UP	1	K3
09	CHS01 15120	.O RING	1	K3
10	CSB02 09040	.BUSHING	1	K3
11	155 HC 99127	.PACKING ROD	1	K3
12	155 HC 99087	.RING PISTON	1	K3
13	155 HC 19066	.PISTON	1	
14	155 HC 79071	.RING WEAR	2	K3
15	155 HC 91301	.NUT	2	K3
16	155 HC 02299	.CYLINDER	1	
17	155 HC 11784	.BUSHING	1	
18	CSD01 00080	.SEAL DUST	2	K3
19	155 HC 02306	.TUBE	1	
20	CHS01 13030	.O RING	1	K3
21	CFB01 20845	.BOLT	2	
22	CFB01 20855	.BOLT	2	
23	CFW01 10825	.WASHER SPRING	4	
24	155 HC 02314	.BAND	2	
25	155 HC 11816	.BAND	2	
26	CFS01 31035	.SCREW	4	
27	CFW01 11030	.WASHER SPRING	4	
28	CCC02 27067	.CLAMP	2	
29	CFS01 31020	.SCREW	4	
30	CFW01 11030	.WASHER SPRING	4	
31	CLN01 10000	.GREASE NIPPLE	1	
32	CLN01 10900	.GREASE NIPPLE	1	
33	CFW06 16045	.WASHER	12	
34	155 HC 99119	.RING BUFFER	1	K3
35	CHS01 12070	.O RING	1	K3
36	CHS02 02070	.RING BACK-UP	2	K3
	$CHC01 08048	.COVER	2	
	#155 HC 02396	.SEAL KIT (K3)	1	

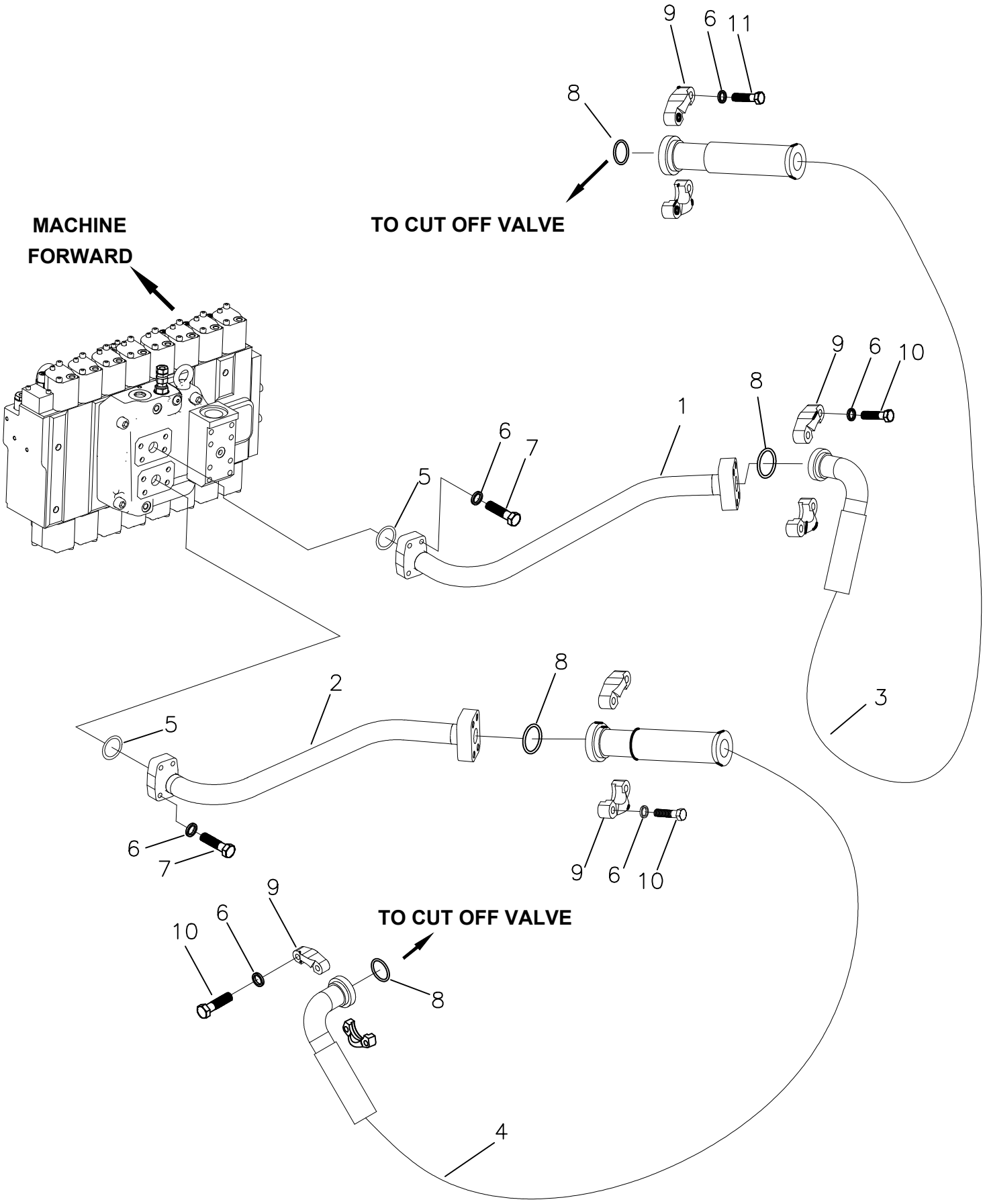
FIG. 6160 HYDRAULIC PIPING (TANK TO PUMP)



BE220G

ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 PM 02549	SUCTION TUBE ASSY.	1	
02	156 PM 02557	TUBE ASSY.	1	
03	156 PM 10073	CLAMP	1	
04	CHS01 12105	O-RING	2	
05	CFW05 16045	WASHER	4	
06	CFS01 31630	SCREW	4	
07	CFW05 12032	WASHER	2	
08	CFN28 21214	NUT	2	
09	CHH30 29922	HOSE	1	
10	CCC01 13020	CLAMP	4	
11	156 PM 10608	PLATE	1	
12	CFW05 10032	WASHER	12	
13	CFB01 21050	BOLT	2	
14	CFB01 21035	BOLT	10	
15	CFS01 31630	SCREW	2	
16	CFS01 31655	SCREW	2	

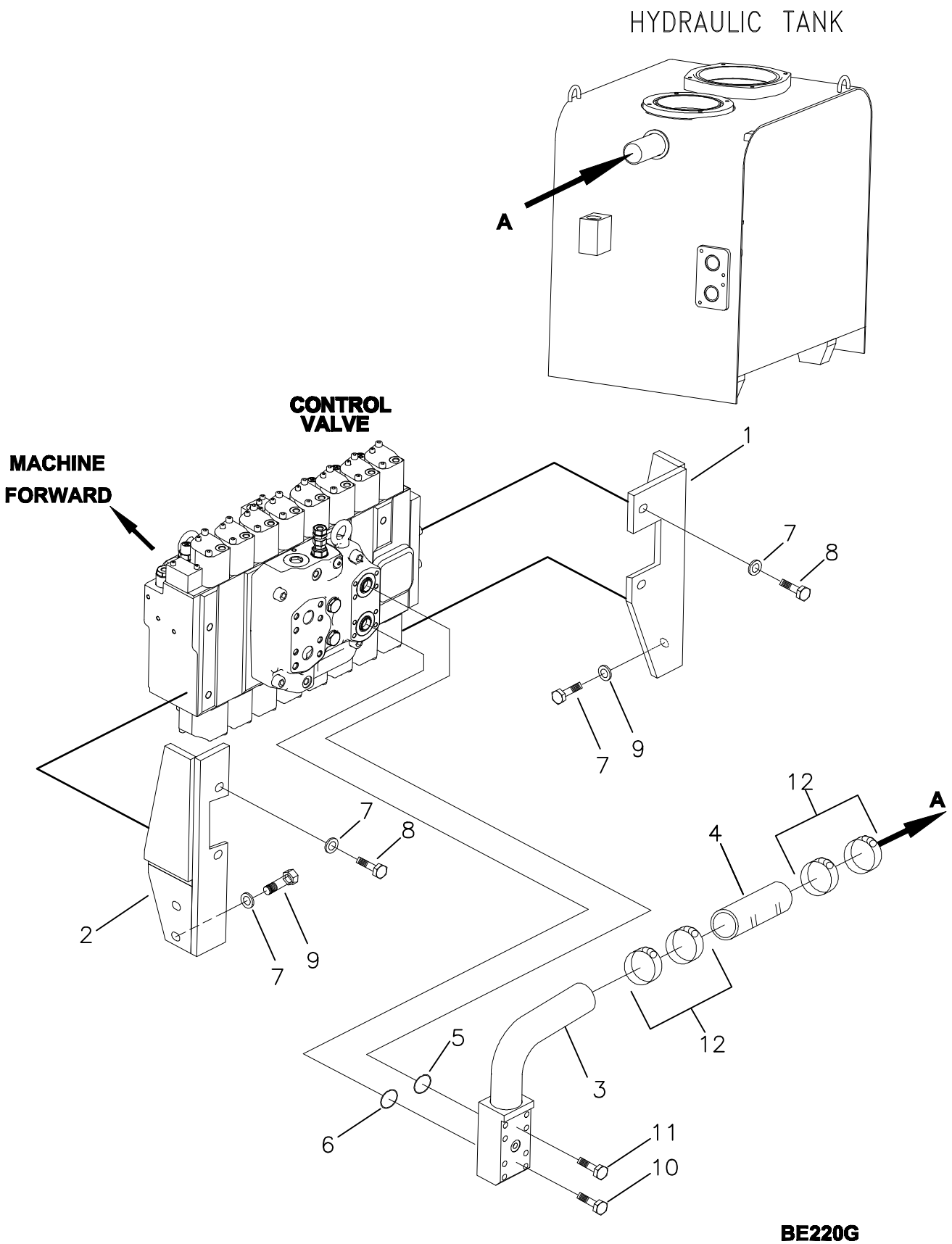
FIG. 6170 HYDRAULIC PIPING (CONTROL VALVE TO PUMP)



BE220G

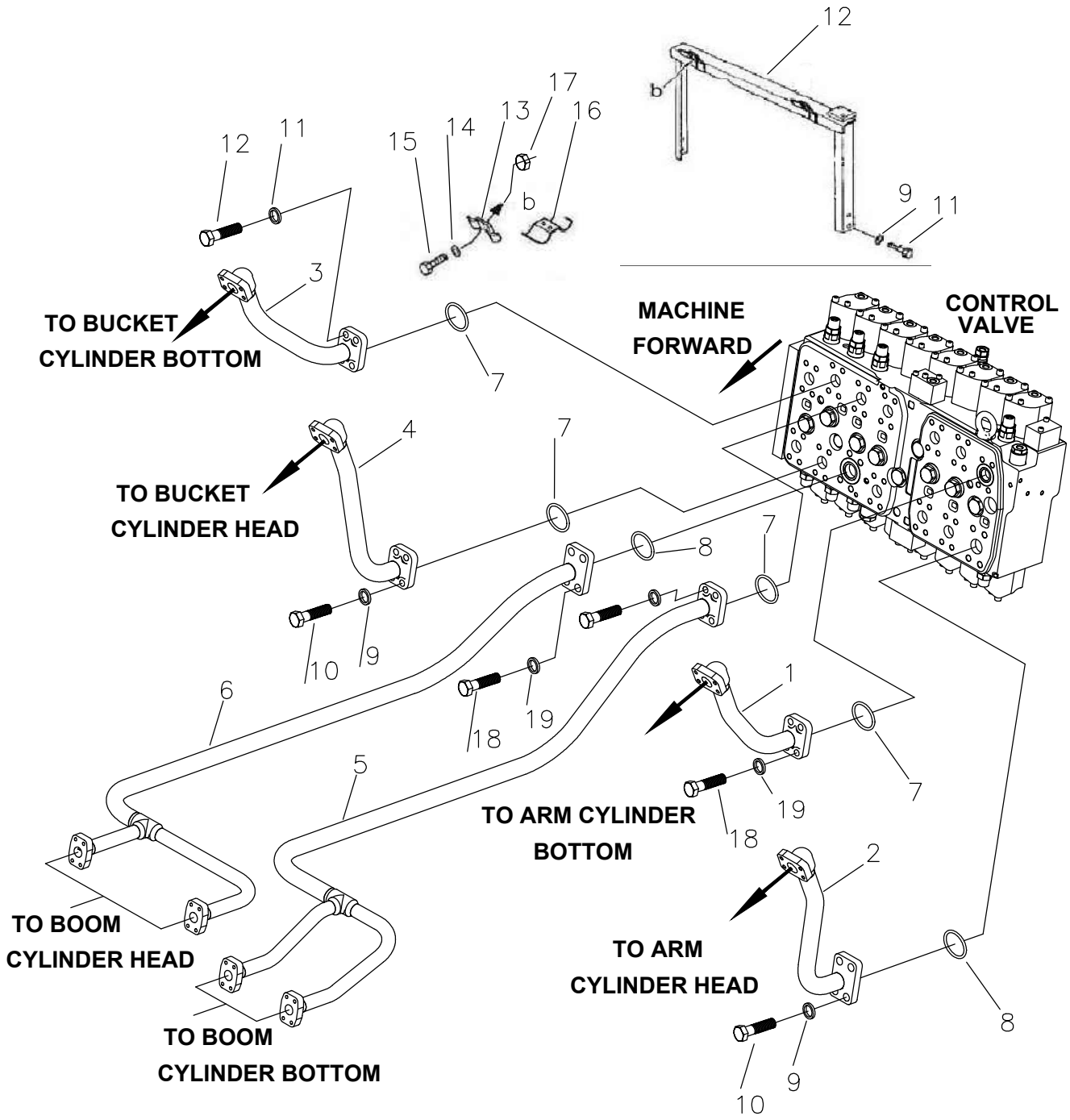
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 PM 02613	TUBE ASSY.	1	
02	156 PM 02621	TUBE ASSY.	1	
03	157 PH 02209	HOSE	1	
04	156 PM 90475	HOSE	1	
05	CHS01 13045	O-RING	2	
06	CFW05 12032	WASHER	24	
07	CFS01 31235	SCREW	24	
08	156 PM 60529	O-RING	4	
09	156 PM 10543	SPLIT FLANGE	8	
10	CFB27 11240	SCREW	12	
11	CFB01 21205	BOLT	4	

FIG. 6190 HYDRAULIC PIPING (CONTROL VALVE TO TANK) (RETURN LINE)



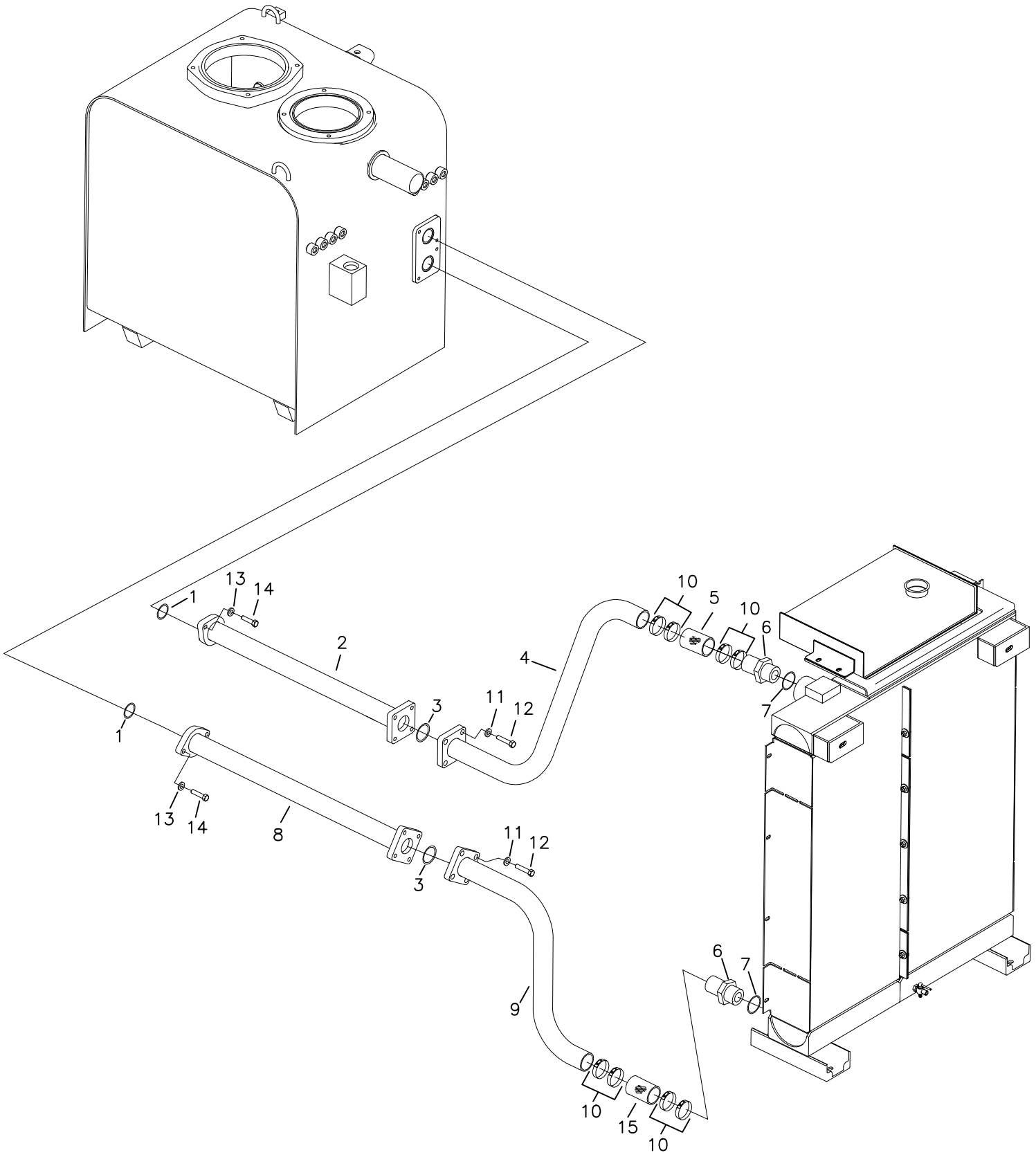
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 PM 02654	BRACKET	1	
02	156 PM 02646	BRACKET	1	
03	156 PM 02605	TUBE ASSY.	1	
04	156 PM 90572	HOSE	1	
05	CHS01 13038	O-RING	1	
06	CHS01 13045	O-RING	1	
07	CFW05 16045	WASHER	7	
08	CFS01 31635	SCREW	3	
09	CFS01 31640	SCREW	4	
10	CFS13 12070	SCREW, ALLEN	4	
11	CFB01 21080	SCREW, ALLEN	4	
12	CCC01 09020	CLAMP	4	

FIG. 6200 HYDRAULIC PIPING (ARM, BUCKET & BOOM CYLINDER LINE)



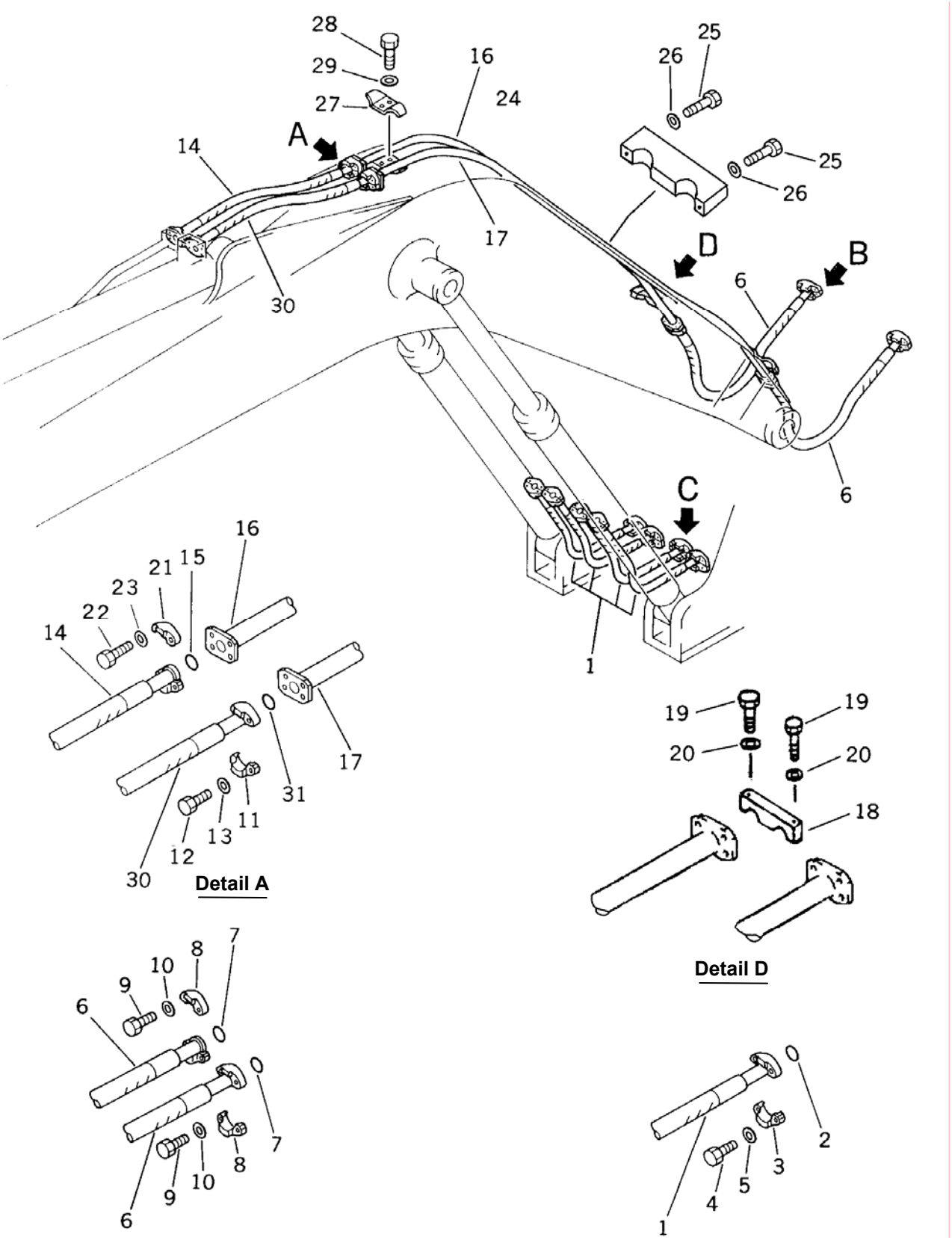
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 PM 02313	TUBE ASSY.	1	
02	156 PM 02321	TUBE ASSY.	1	
03	156 PM 02338	TUBE ASSY.	1	
04	156 PM 02346	TUBE ASSY.	1	
05	156 PM 02354	TUBE ASSY.	1	
06	156 PM 02362	TUBE ASSY	1	
07	CHS01 13035	O-RING	6	
08	CHS01 13045	O-RING	2	
09	CFW05 12032	WASHER	20	
10	CFB27 11240	BOLT	16	
11	CFS01 31230	SCREW	4	
12	156 PM 02662	BRACKET	1	
13	160 PH 11534	CLAMP	2	
14	CFW05 10032	WASHER	4	
15	CFS01 31035	SCREW	4	
16	160 PH 02195	CLAMP	2	
17	CFN03 11012	NUT	4	
18	CFB07 21440	BOLT	8	
19	CFW05 14045	WASHER	8	

FIG. 6210 OIL COOLER PIPING



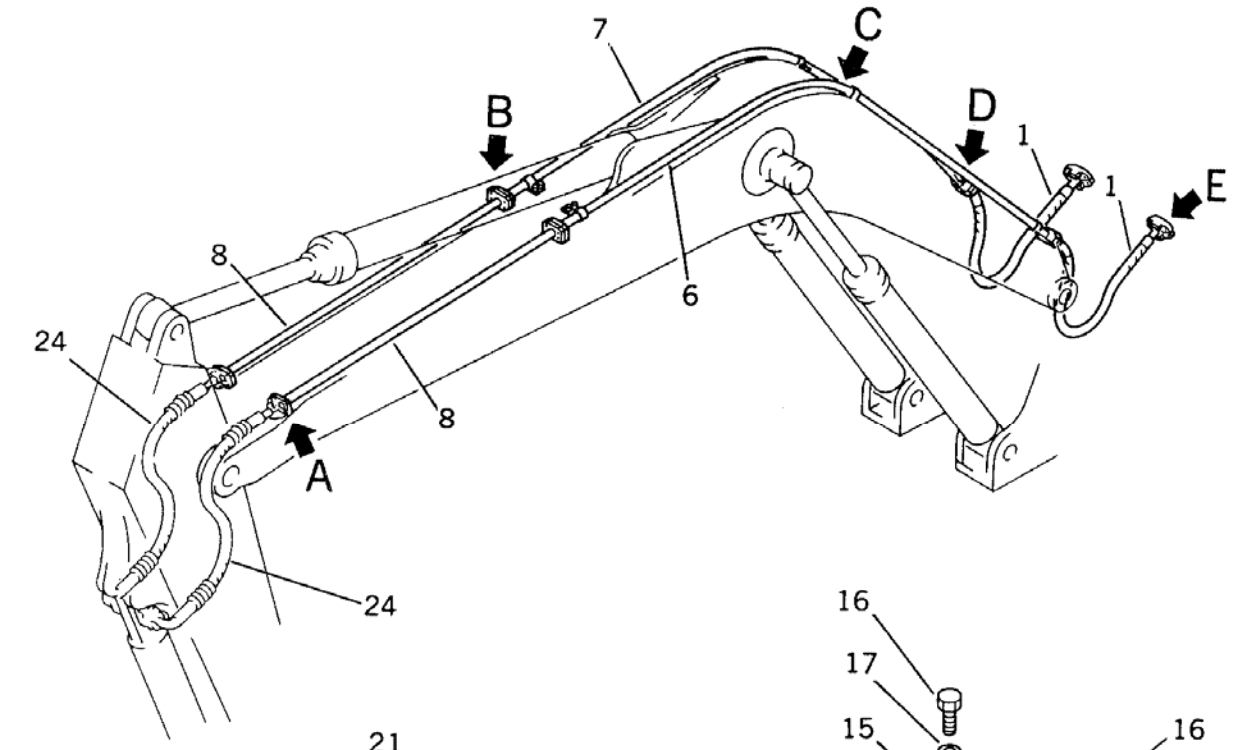
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	CHS01 12065	O' RING	2	
02	156 EC 02031	TUBE ASSY	1	
03	CHS01 12055	O'RING	2	
04	156 EC 02056	TUBE ASSY	1	
05	156 EC 61819	HOSE	1	
06	156 EC 11477	ADAPTER	2	
07	CHS01 12070	O'RING	2	
08	156 EC 02048	TUBE ASSY	1	
09	156 EC 02064	TUBE ASSY	1	
10	CCC01 08020	CLAMP	8	
11	CFW05 12032	WASHER	8	
12	CFS01 31235	SCREW	8	
13	CFW05 10032	WASHER	4	
14	CFS01 31035	SCREW	4	
15	155 PH 93752	HOSE	1	

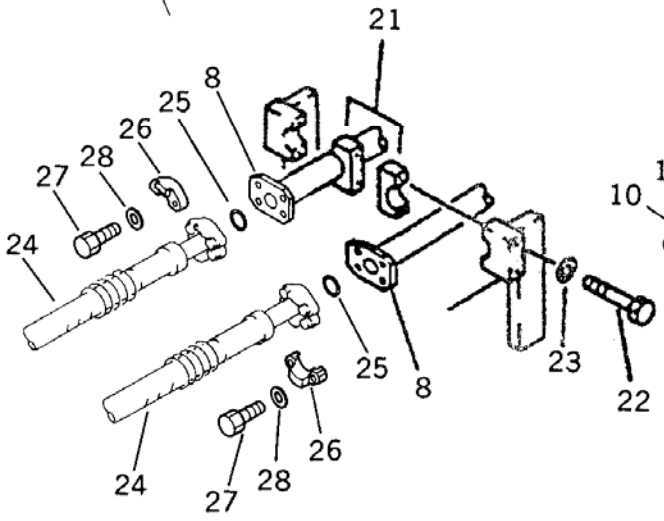
FIG: 6220 HYDRAULIC PIPING (BOOM AND ARM CYLINDER LINE)



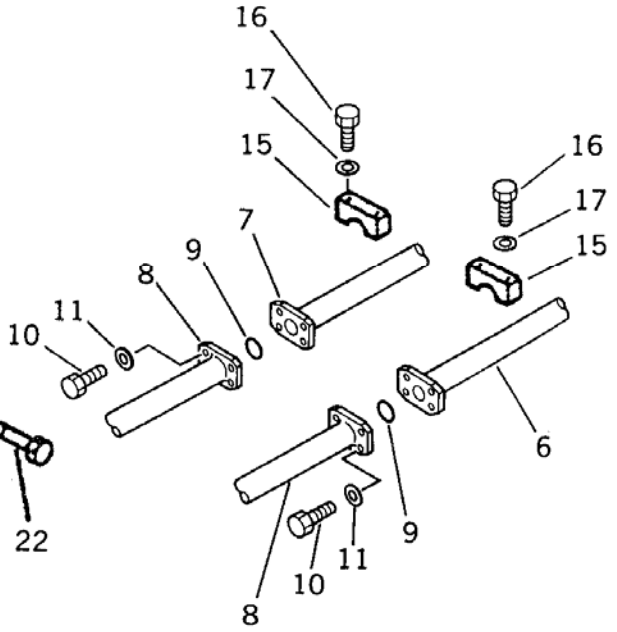
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	CHH29 01208	HOSE	4	
02	CHS01 13025	O RING	8	
03	CFG03 12039	SPLIT FLANGE	16	
04	CFB27 10830	BOLT	32	
05	CFW06 08023	WASHER	32	
06	CHH29 01610	HOSE	2	
07	CHS01 13032	O RING	4	
08	CFG03 16045	SPLIT FLANGE	8	
09	CFB27 11035	BOLT	16	
10	CFW06 10032	WASHER	16	
11	CFG03 16045	SPLIT FLANGE	4	
12	CFB27 11035	BOLT	8	
13	CFW06 10032	WASHER	8	
14	CHH29 11208	HOSE	1	
15	CHS01 13025	O RING	2	
16	156 PA 02176	TUBE ASSY.	1	
17	156 PA 02184	TUBE ASSY.	1	
18	156 PA 10105	CLAMP	2	
19	CFB01 21245	BOLT	4	
20	CFW05 12032	WASHER	4	
21	CFG03 12039	SPLIT FLANGE	4	
22	CFB27 10830	BOLT	8	
22	CFW06 08023	WASHER	8	
24	156 PA 10098	CLAMP	1	
25	CFB01 12250	BOLT	2	
26	CFW05 12032	WASHER	2	
27	156 PA 10219	CLAMP	1	
28	155 PH 11974	BOLT	2	
29	CFW05 10032	WASHER	2	
30	CHH29 11608	HOSE	1	
31	CHS01 13032	O RING	2	

FIG: 6230 HYDRAULIC PIPING (BUCKET CYLINDER LINE)

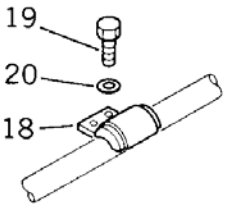




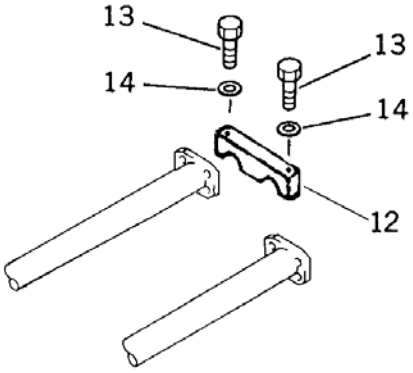
Detail A



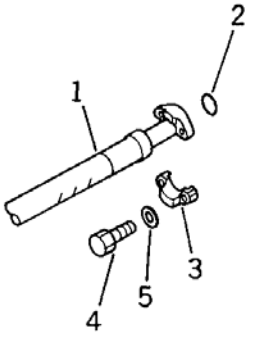
Detail B



Detail C



Detail D



Detail E

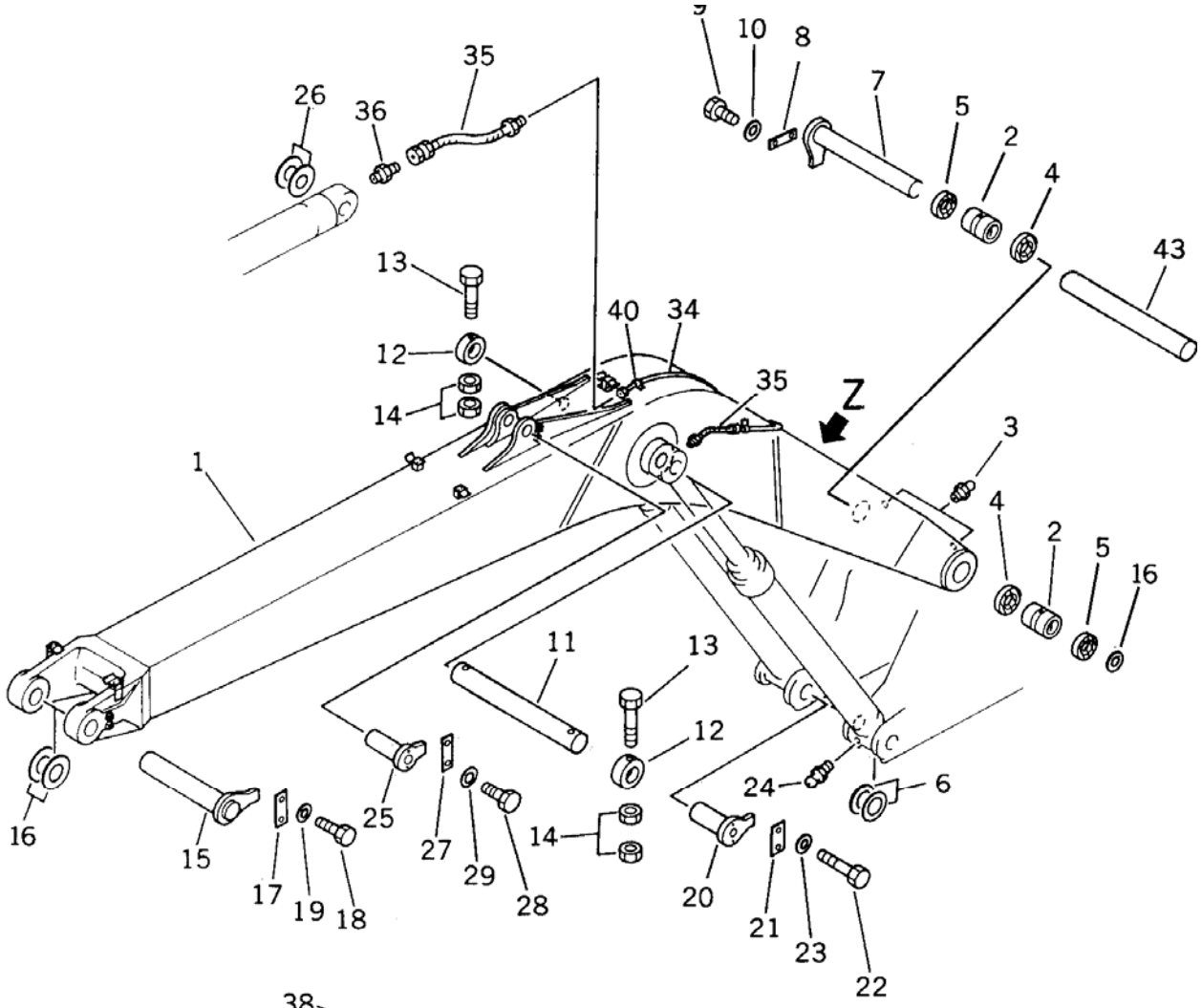
BE220G

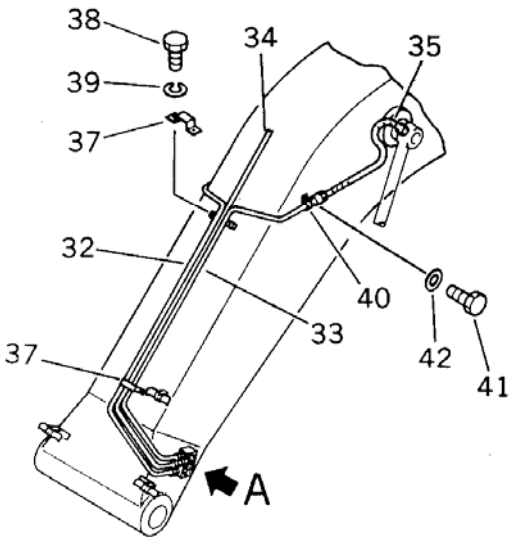
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	CHH29 01610	HOSE	2	
02	CHS01 13032	O RING	4	
03	CFG03 16045	SPLIT FLANGE	8	
04	CFB27 11035	BOLT	16	
05	CFW06 10032	WASHER	16	
06	156 PA 02151	TUBE ASSY.	1	
07	156 PA 02168	TUBE ASSY.	1	
08	156 PA 02005	TUBE ASSY.	2	
09	CHS01 13035	O RING	2	
10	CFB27 11040	BOLT	8	
11	CFW06 10032	WASHER	8	
12	156 PA 10105	CLAMP	2	
13	CFS01 31240	SCREW	4	
14	CFW05 12032	WASHER	4	
15	171 PH 11319	CLAMP	2	
16	CFS01 31240	SCREW	4	
17	CFW05 12032	WASHER	4	
18	155 PA 02064	CLAMP	2	
19	155 PH 11974	BOLT	4	
20	CFW05 10032	WASHER	4	
21	160 PA 11004	CLAMP	2	
22	CFB01 21285	BOLT	4	
23	CFW05 12032	WASHER	4	
24	CHH28 11216	HOSE	2	
25	CHS01 13025	O RING	4	
26	CFG03 12039	SPLIT FLANGE	8	
27	CFS01 30830	SCREW	16	
28	CFW06 08023	WASHER	16	

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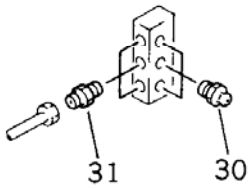
VII. WORK EQUIPMENT

FIG: 7000 BOOM





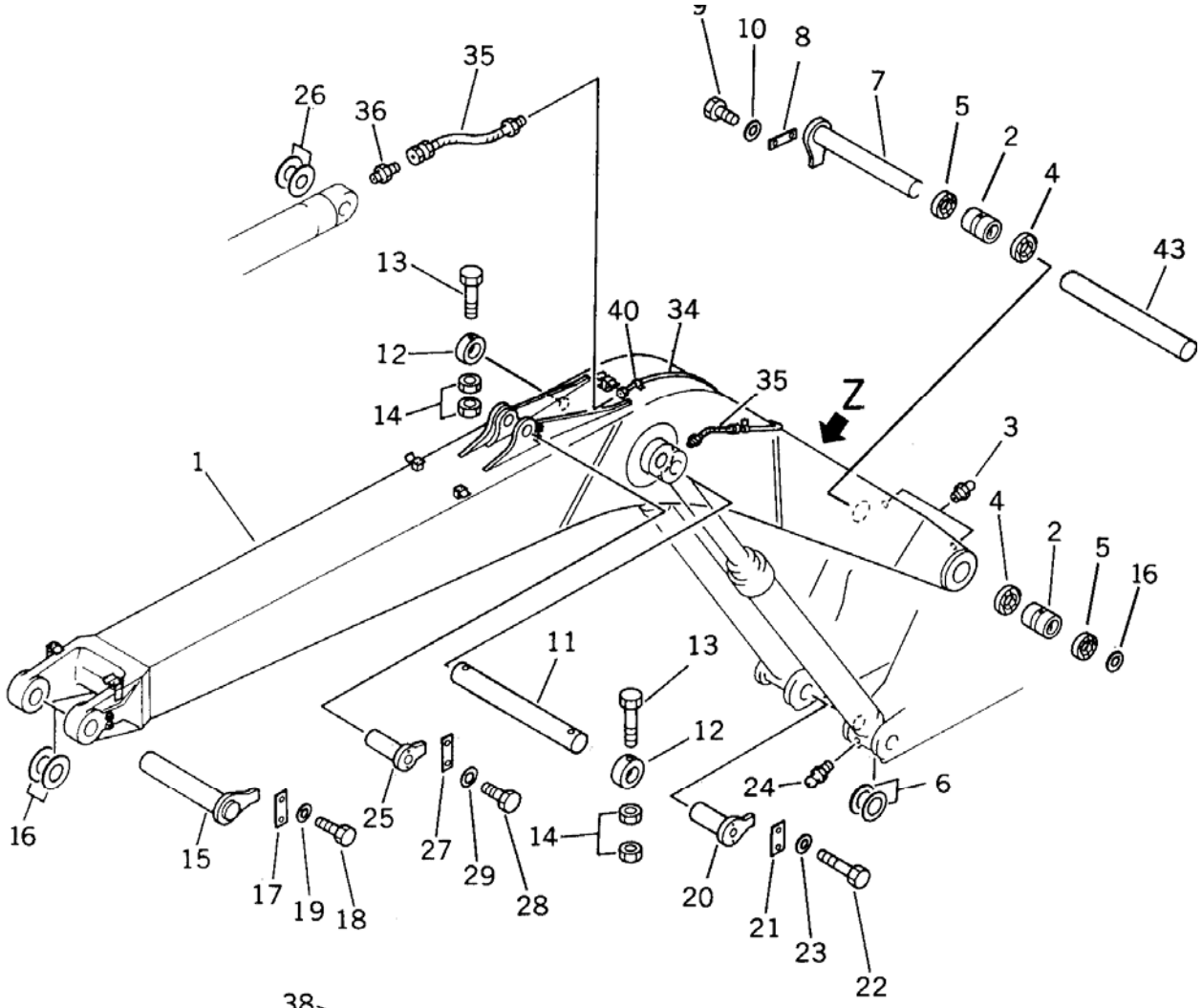
View Z

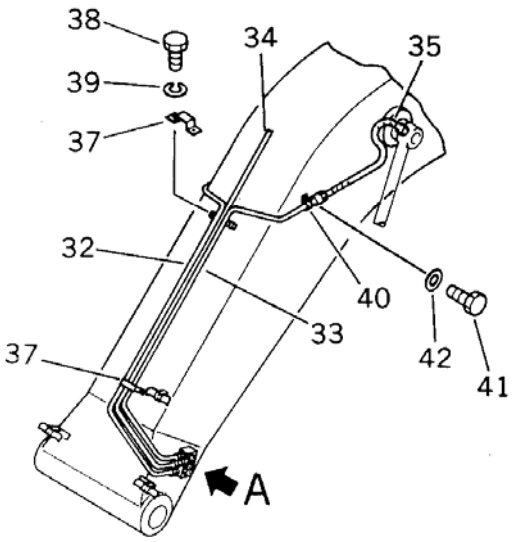


Detail A

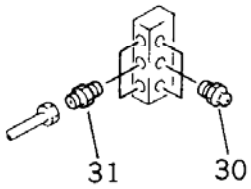
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
	156 BHB 0013	BOOM ASSY	1	
01	*156 BH 02007	.BOOM	1	
02	155 BH 51403	.BUSHING	2	
03	CLN01 10000	.FITTING GREASE	2	
04	CSD01 00090	.SEAL DUST	2	
05	CSD01 00090	.SEAL DUST	2	
06	155 BH 11543	SPACER 1.0MM	6	
07	155 BH 02058	PIN	1	
08	155 BH 11454	PLATE	1	
09	CFS01 31640	SCREW	2	
10	CFW05 16045	WASHER	2	
11	155 BH 11535	PIN	1	
12	155 BH 11357	PLATE	2	
13	155 BH 11462	BOLT	2	
14	CFN01 22018	NUT	4	
15	155 BH 02017	PIN	1	
16	155 BH 11479	SPACER 1.0MM	4	
17	155 BH 11454	PLATE	1	
18	CFS01 31235	SCREW	2	
19	CFW05 12032	WASHER	2	
20	155 BH 02025	PIN	2	
21	155 BH 11413	PLATE	3	
22	CFS01 31235	SCREW	4	
23	CFW05 12032	WASHER	4	
24	CLN01 10000	FITTING GREASE	2	
25	155 BH 02066	PIN	1	
26	155 BH 11349	SPACER 1.0MM	8	
27	155 BH 11413	PLATE	1	
28	CFS01 31235	SCREW	2	
29	CFW05 12032	WASHER	2	
30	CLN01 10000	FITTING GREASE	3	
31	CPF05 10813	CONNECTOR	3	
32	155 BH 02033	TUBE	1	
33	155 BH 02041	TUBE	1	
34	155 BH 02074	TUBE	1	
35	155 BH 91564	HOSE	3	
36	155 BH 11332	NIPPLE	3	
37	155 BH 11551	CLIP	2	
38	CFS01 30612	SCREW	4	
39	CFW01 10619	WASHER SPRING	4	
40	155 SO 02034	CLIP	3	

FIG: 7000 BOOM





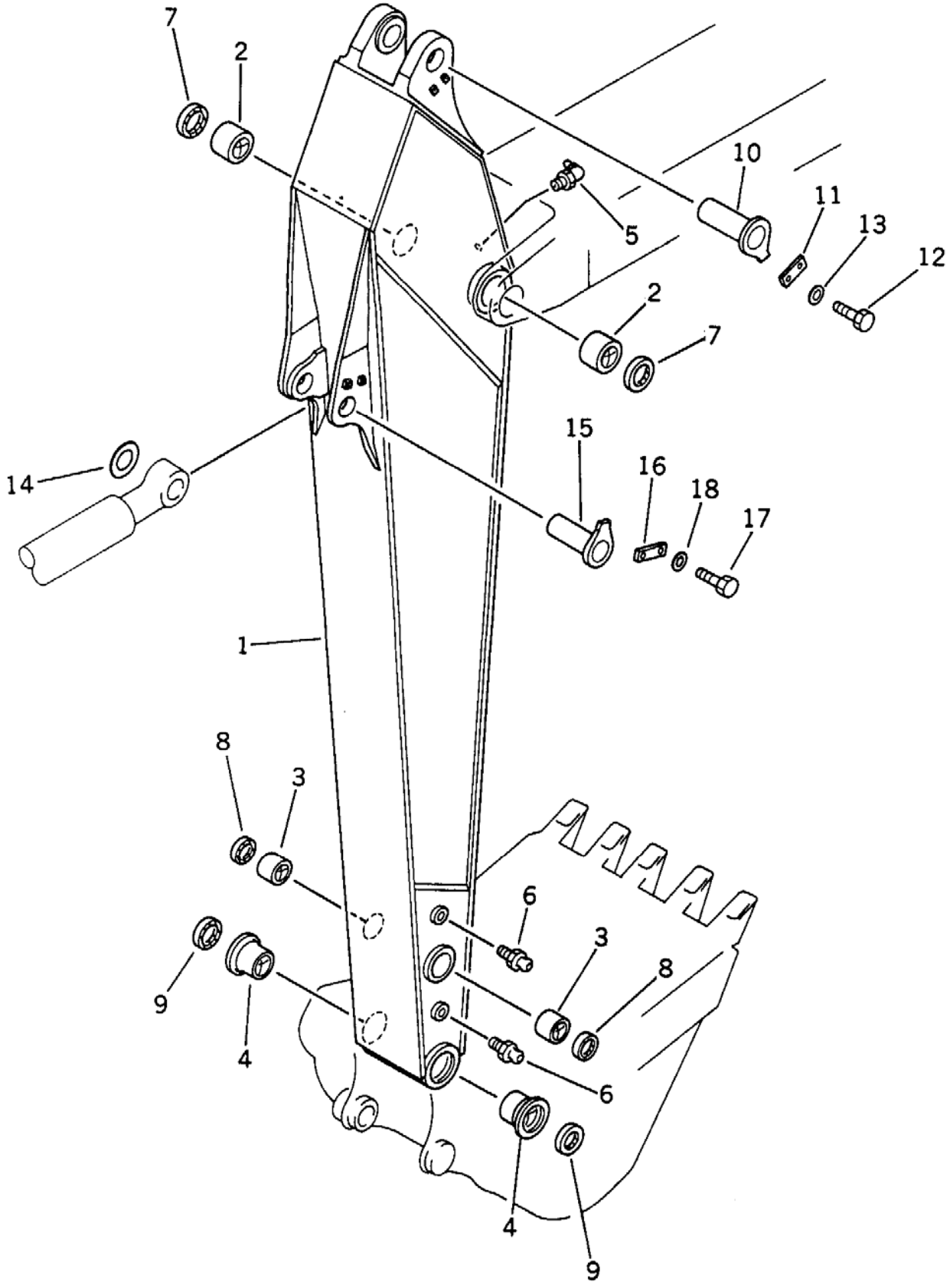
View Z



Detail A

ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
41	CFS01 31020	SCREW	6	
42	CFW05 10032	WASHER	6	
43	155 BH 12442	.TUBE	1	

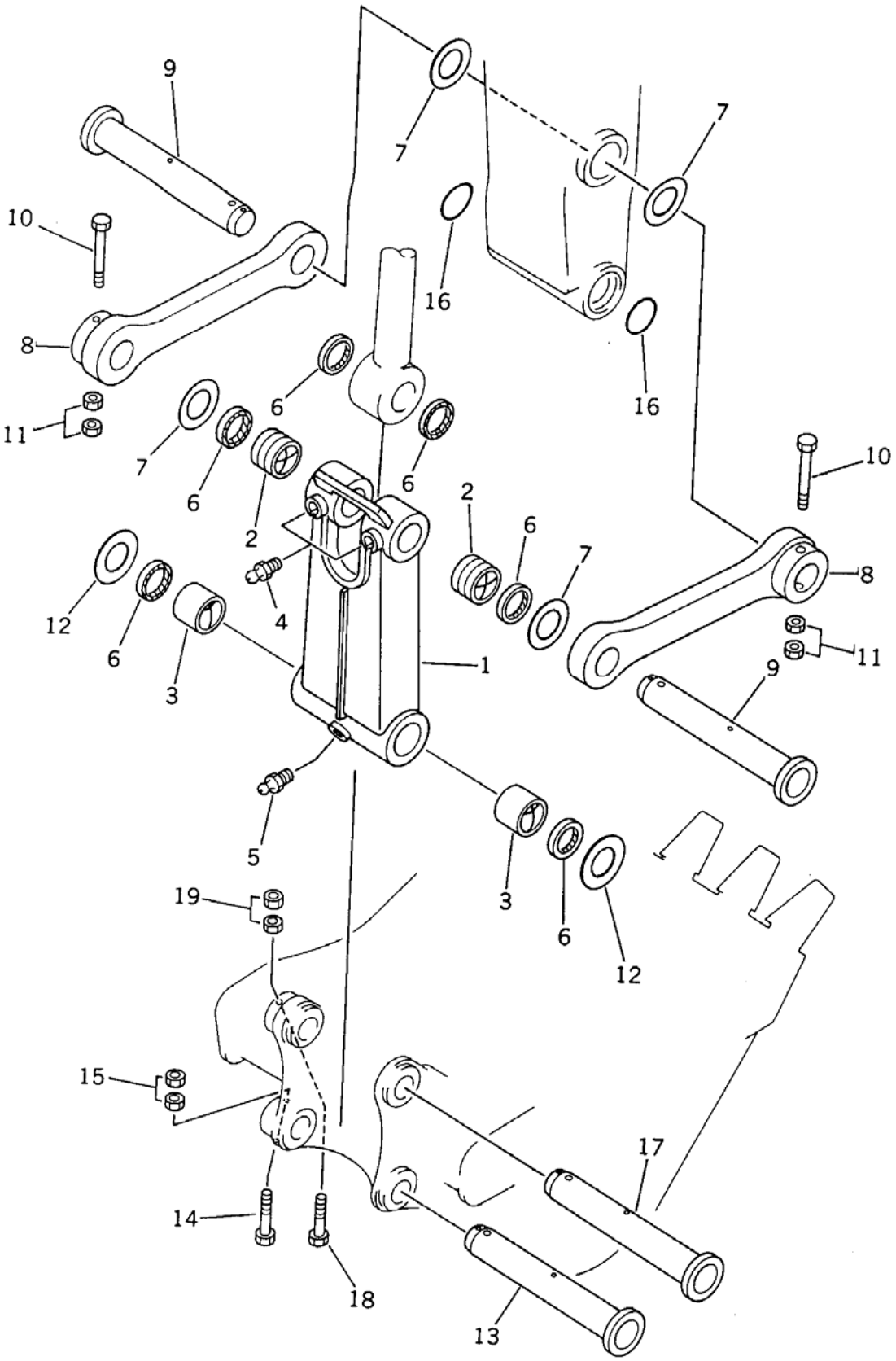
FIG: 7010 ARM



BE220G

ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	*155 BH 02593	ARM 2.5 M	1	
02	155 BH 51825	BUSHING	2	
03	155 BH 51785	BUSHING	2	
04	155 BH 51817	BUSHING	2	
05	CLN01 10000	GREASE NIPPLE	1	
06	CLN01 10000	FITTING GREASE	2	
07	CSD01 00090	SEAL DUST	2	
08	155 HC 91561	SEAL DUST	2	
09	155 BH 93013	SEAL DUST	2	
10	155 BH 02066	PIN	1	
11	155 BH 11413	PLATE	1	
12	CFS01 31235	SCREW	2	
13	CFW05 12032	WASHER	2	
14	155 BH 11349	SPACER 1.0MM	3	
15	155 BH 02099	PIN	1	
16	155 BH 11413	PLATE	1	
17	CFS01 31235	SCREW	2	
18	CFW05 12032	WASHER	2	

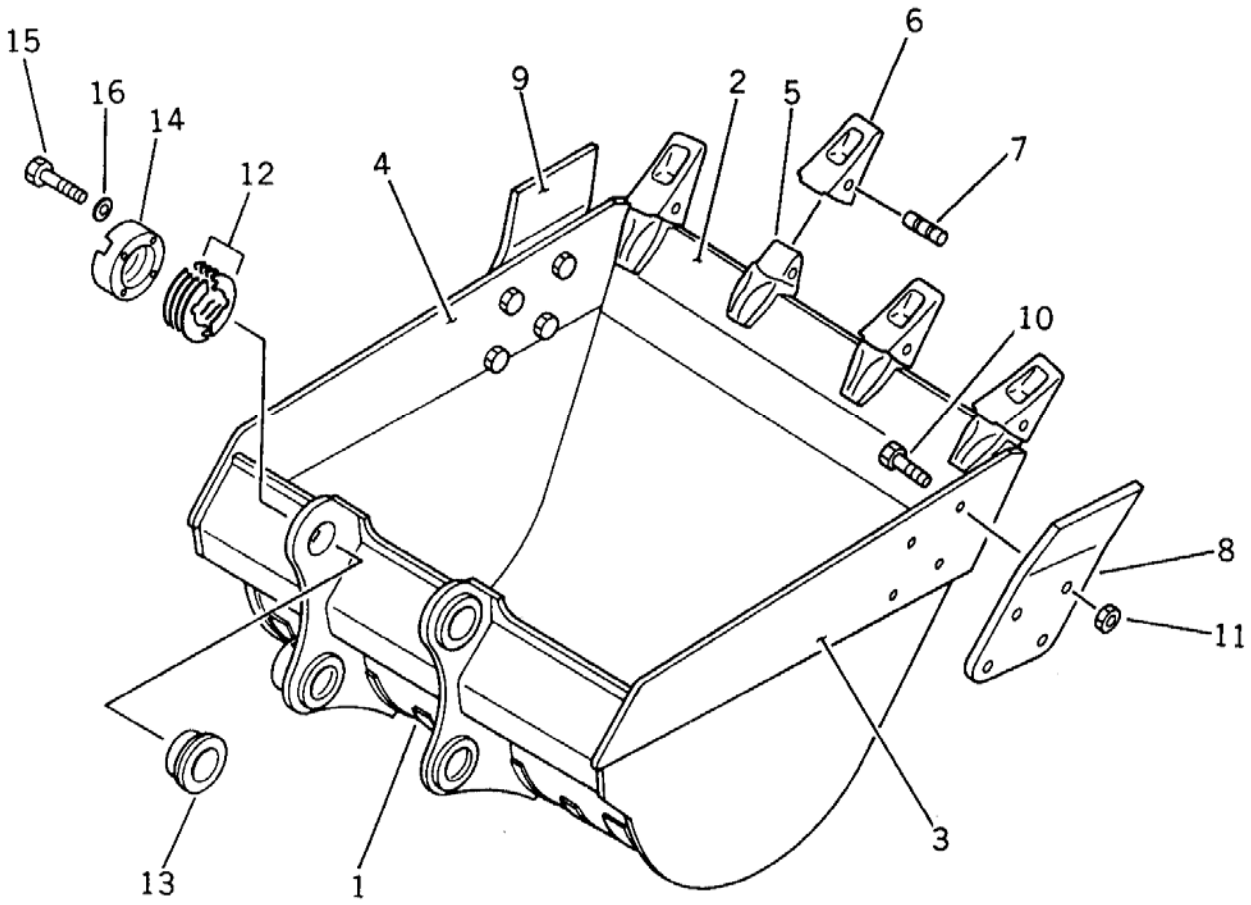
FIG: 7020 LINK



BE220G

ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
	155 BHB 0242	LINK ASSY	1	
01	*155 BH 02114	.LINK	1	
02	155 BH 51988	.BUSHING	2	
03	155 BH 51996	.BUSHING	2	
04	CLN01 10000	.FITTING GREASE	2	
05	CLN01 10000	.FITTING GREASE	1	
06	155 HC 91561	SEAL DUST	6	
07	155 BH 11349	SPACER 1.0MM	7	
08	155 BH 02122	LINK	2	
09	155 BH 02139	PIN	2	
10	155 BH 11462	BOLT	2	
11	CFN01 22018	NUT	4	
12	155 BH 11349	SPACER 1.0MM	3	
13	155 BH 02147	PIN	1	
14	155 BH 11462	BOLT	1	
15	CFN01 22018	NUT	2	
16	155 BH 62022	O RING	2	
17	155 BH 02147	PIN	1	
18	155 BH 12037	BOLT	1	
19	CFN01 22018	NUT	2	

FIG: 7030 BUCKET

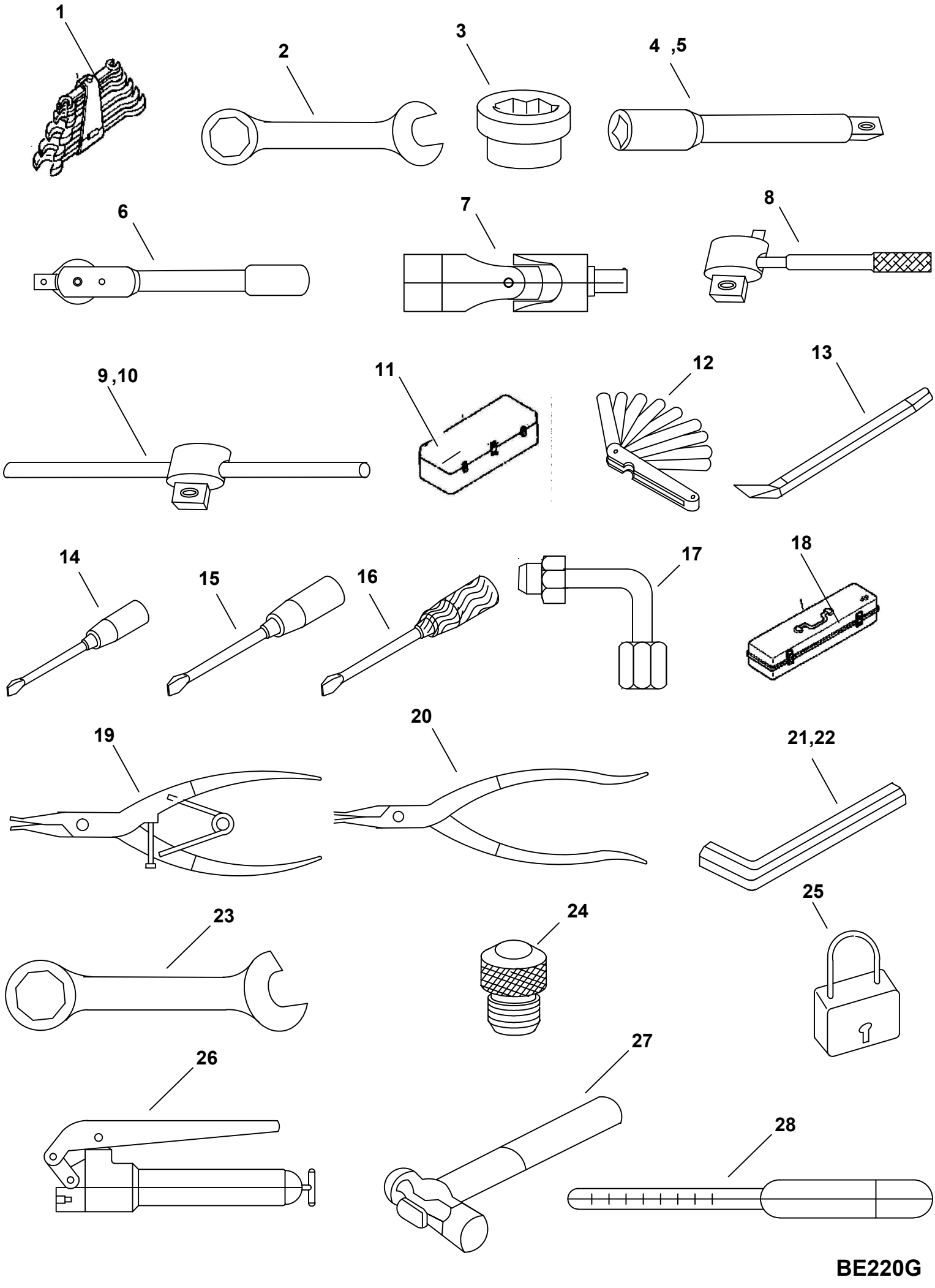


ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	154 BH 02019	BUCKET	1	
02	154 BH 10273	.PLATE(WELDED)	1	
03	155 BH 12223	.PLATE LH(WELD)	1	
04	155 BH 12231	.PLATE RH(WELD)	1	
05	206 939 5120	.ADAPTOR	4	
06	160 BH 31646	TOOTH	4	
07	CFP15 02516	PIN	4	
08	155 BH 12272	CUTTER L.H	1	
09	155 BH 12289	CUTTER R.H	1	
10	BFB13 12478	BOLT	8	
11	CFN26 12430	NUT	8	
	155 BHB 0259	SHIM ASSY	1	
12	*155 BH 12986	.SHIM 0.5MM	10	
12	*155 BH 12994	.SHIM 1.0MM	24	
13	155 BH 52319	SPACER	1	
14	155 BH 12329	PLATE	1	
15	CFS01 32055	SCREW	4	
16	CFW05 20060	WASHER	4	

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VIII. TOOL KIT AND DECAL

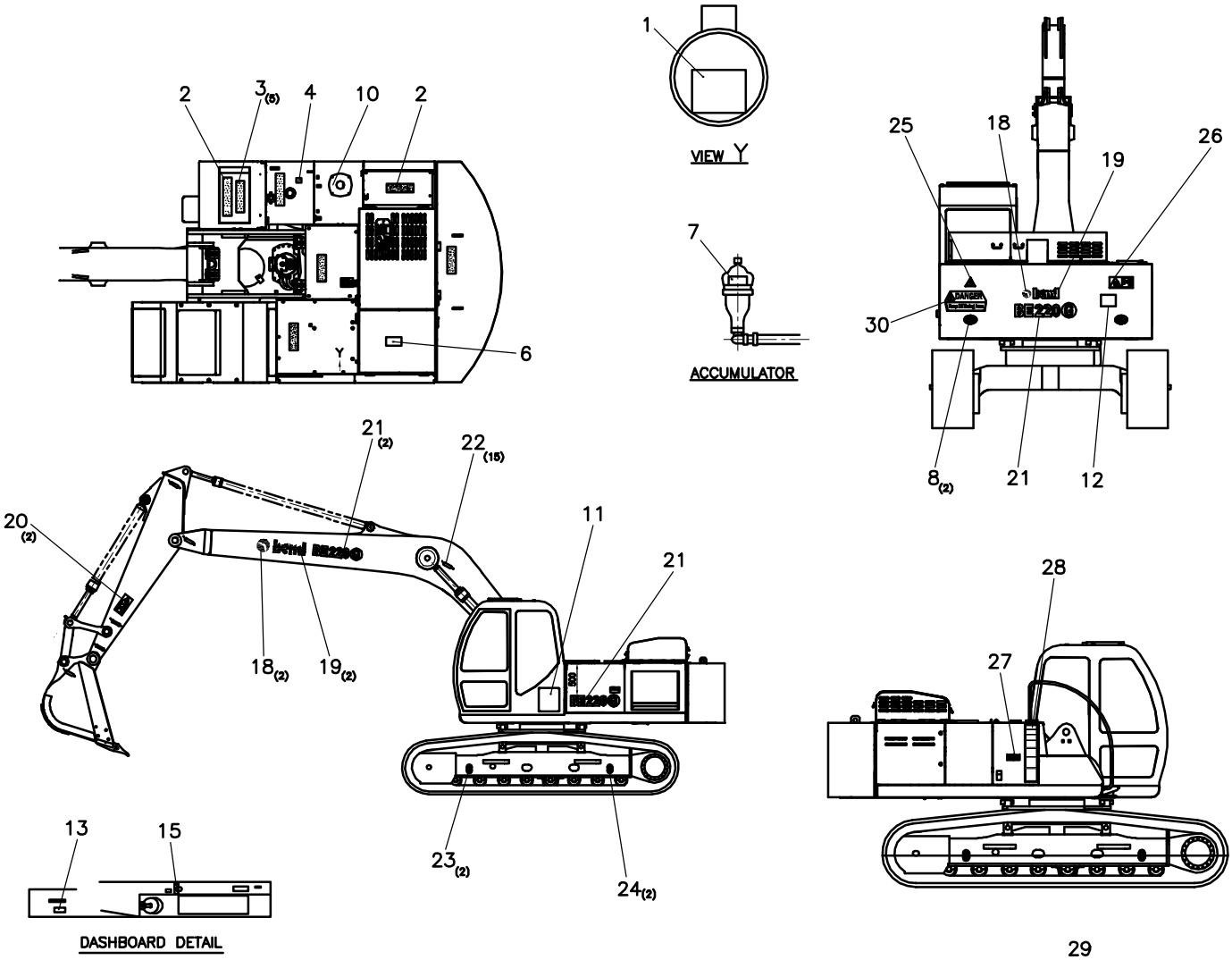
FIG NO. 8000 TOOL KIT



BE220G

ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	110 TI 00111	DOUBLE ENDED SPANNER	1	
02	156 TI 90017	SPANNER COMBINATION	1	
03	156 TI 90025	BI- HEX.SOCKET SET	1	
04	520900000620	EXTN.BAR 127mm x 1/2"	1	
05	520900000720	EXTN.BAR 254mm x 1/2"	1	
06	520900030000	UNIVERSAL FLEXIBLE	1	1/2" SD 254mm
07	520900010000	UNIVERSAL JOINT	1	
08	520900020000	REVERSIBLE RATCHET	1	1/2" SD 254mm
09	520900040000	T-HANDLE X1/2"	1	SLIDING
10	007433443005	T-HANDLE X3/4"	1	SLIDING
11	504300420000	TOOL BOX	1	
12	030104001000	FEELER GUAGE SET	1	
13	520900000920	PINCH BAR	1	
14	520900070001	SCREW DRIVER- 6X75mm	1	
15	520900080000	SCREW DRIVER- 8X150mm	1	
16	190900000100	STAR SCREW DRIVER--	1	
17	008017561735	HYDRAULIC	1	M14X1.5mm
18	110 TI 02007	TOOL BOX	1	
19	007433203015	CIRCLIP PLIER	1	320mm
20	007433143005	CIRCLIP PLIER	1	320mm
21	007434690385	ALLEN KEY 1.5 TO 10	1	
22	007434690125	ALLEN KEY 12mm	1	
23	007435871415	HALF-MOON SPANNER	1	BL-HEX
24	007836410115	MINIMESS ADAPTOR 1/4"	1	TO M16X2
25	7455590505	LOCK 6 LEVER WITH 2	1	GODREJ
26	520900000200	GREASE PUMP	1	
27	520900000520	HAMMER	1	
28	520900000801	HYDROMETER	1	

FIG. 8010 DECAL

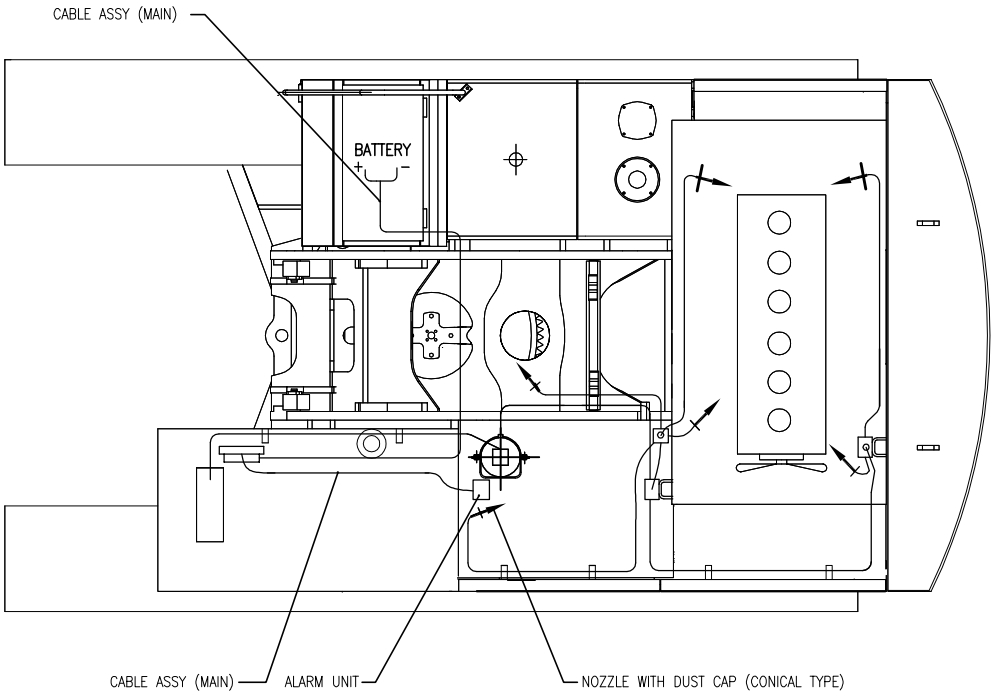


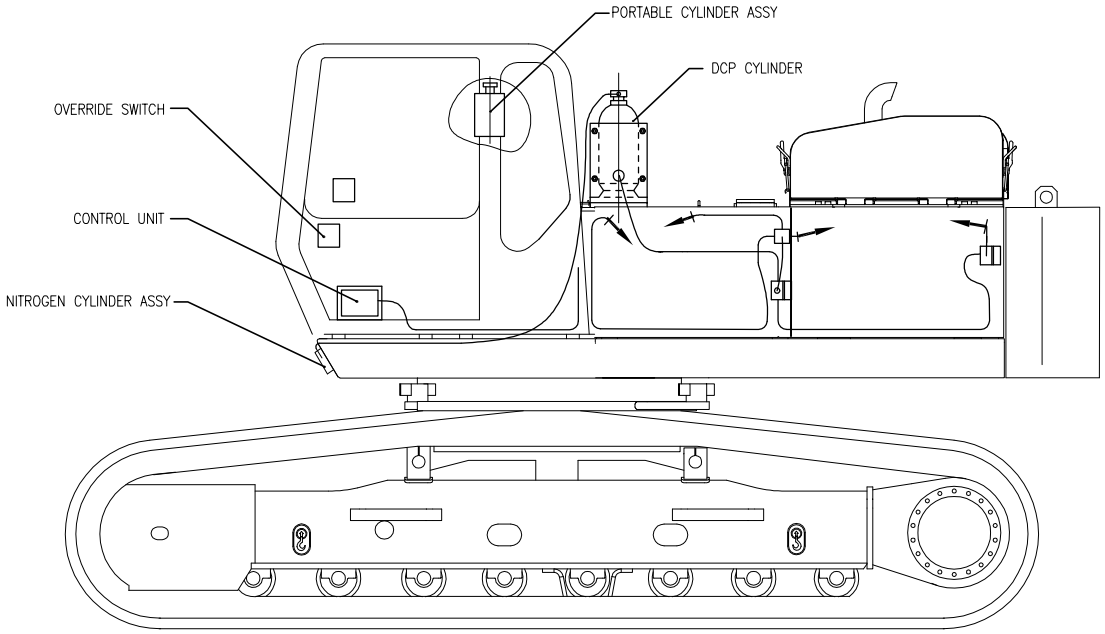
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	105 DZ 70148	PLATE	1	
02	155 DZ 71188	SHEET	2	
03	155 DZ 71203	SHEET	5	
04	CDS09 00002	CAUTION PLATE	1	
05	155 DZ 71074	CAUTION PLATE	1	
06	CDS07 03000	PLATE	1	
07	155 DZ 71058	PLATE SAFETY	1	
08	817 DZ 90164	REFLECTION STICKER	2	
09	155 DZ 21331	NAME PLATE	1	
	155 DZ 11199	SCREW	4	
10	181 DZ 71219	SAFETY PLATE	1	
11	156 DZ 20228	LUB. CHART	1	
	155 DZ 11199	SCREW	4	
12	CDS01 03000	SAFETY PLATE	1	
13	CDS12 00002	PLATE	2	
14	105 DZ 70172	OPERATING PLATE	1	
15	CDS11 30060	PLATE	1	
16	160 DZ 71015	PLATE CAUTION	1	
17	CDS08 03000	SAFETY PLATE	1	
18	156 DZ 90131	LOGO	2	
19	155 DZ 90148	BEML LOGO	2	
20	156 DZ 90107	CAUTION STICKER	2	
21	156 DZ 90245	NAME STICKER	4	
22	156 DZ 90156	INDICATOR	15	
23	156 DZ 90115	HOOK	2	
24	156 DZ 90123	HOOK	2	
25	156 DZ 90059	CAUTION STICKER	1	
26	156 DZ 90075	CAUTION STICKER	1	
27	156 DZ 90091	CAUTION STICKER	1	
28	156 DZ 90237	SHEET	1	
29	156 DZ 90204	NAME STICKER	1	
30	156 DZ 90253	STICKER (WARNING	1	

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IX. OPTIONAL ITEMS

FIG. 9000 AUTO FIRE DETECTION & SUPPRESSION SYSTEM (OPTIONAL)

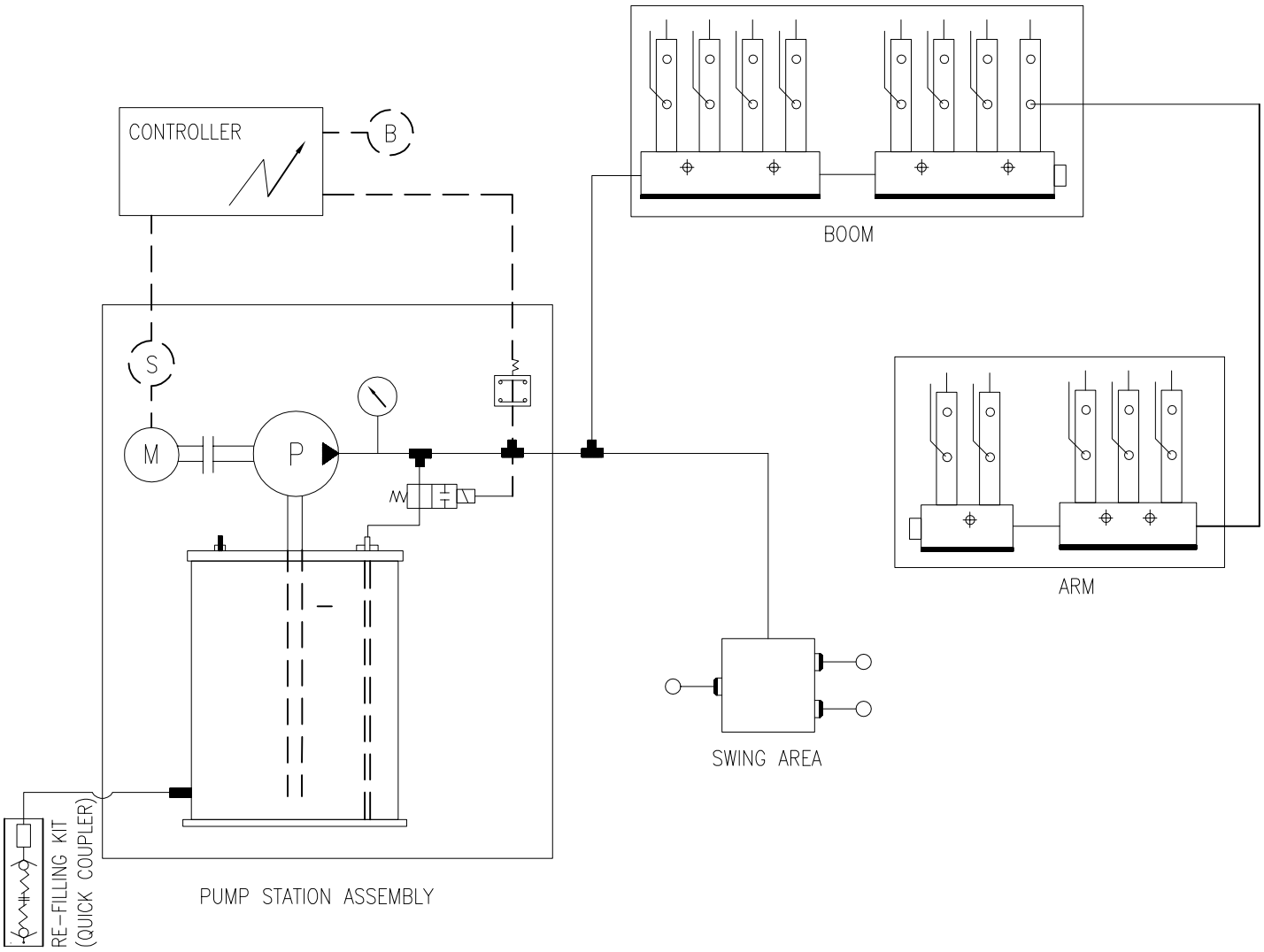




*THE LAYOUT SHOWN MAY SUBJECTED TO CHANGE WITHOUT NOTICE

ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	157 EFB 0017	AUTO FIRE PROTECTION	1	SOUTHERN ELEC.

FIG. 9010 AUTO LUBE SYSTEM (OPTIONAL)



*THE CIRCUIT SHOWN FOR REFERENCE ONLY,MAY SUBJECTED TO CHANGE.

ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	130 AL 00104	AUTO LUB KIT	1	LINCOLN HELIOS

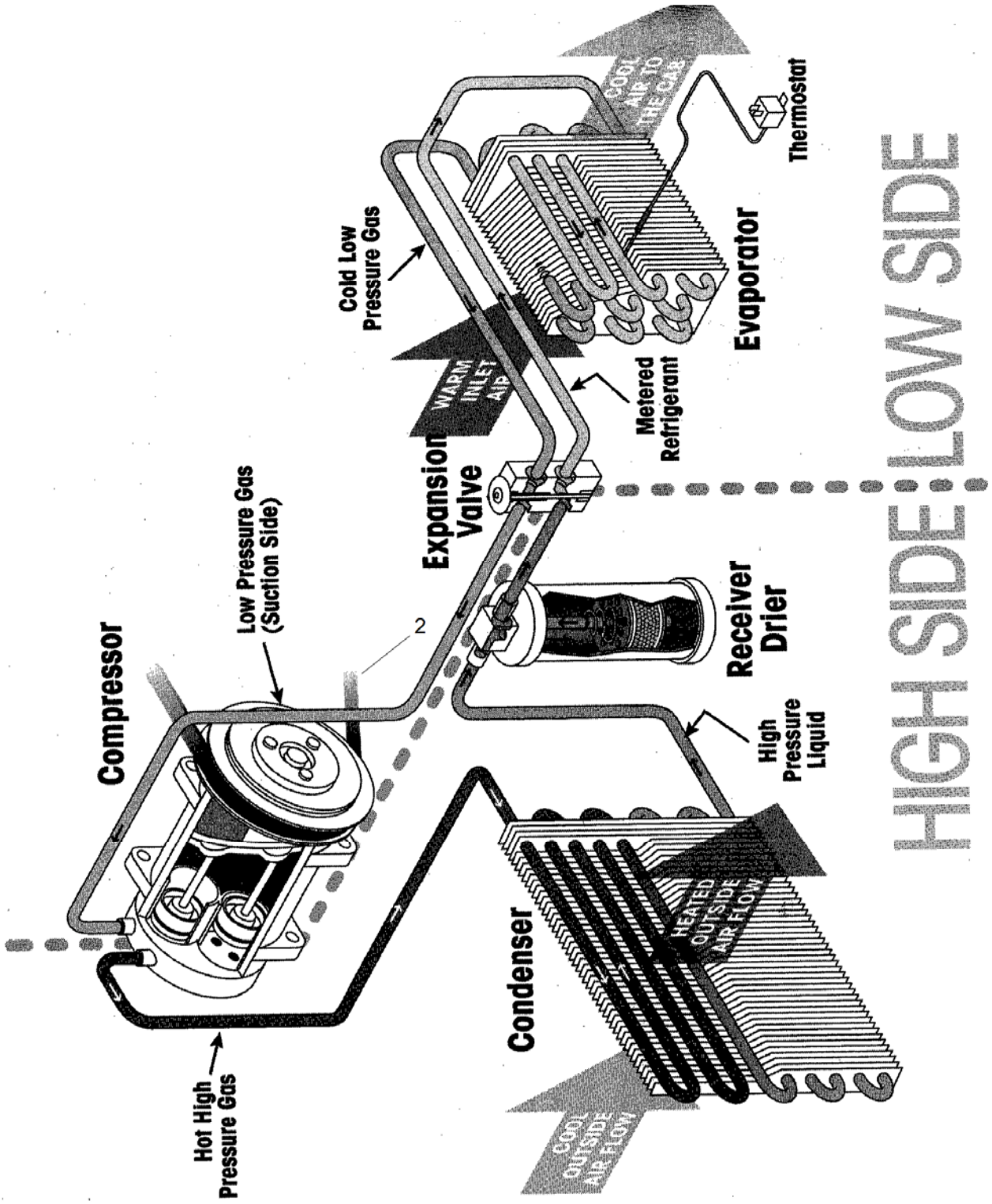
FIG:9020 REAR VIEW CAMERA
(OPTIONAL)



ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	955 EGB 0119	REAR CAMERA KIT	1	

FIG: 9030 AC SYSTEM

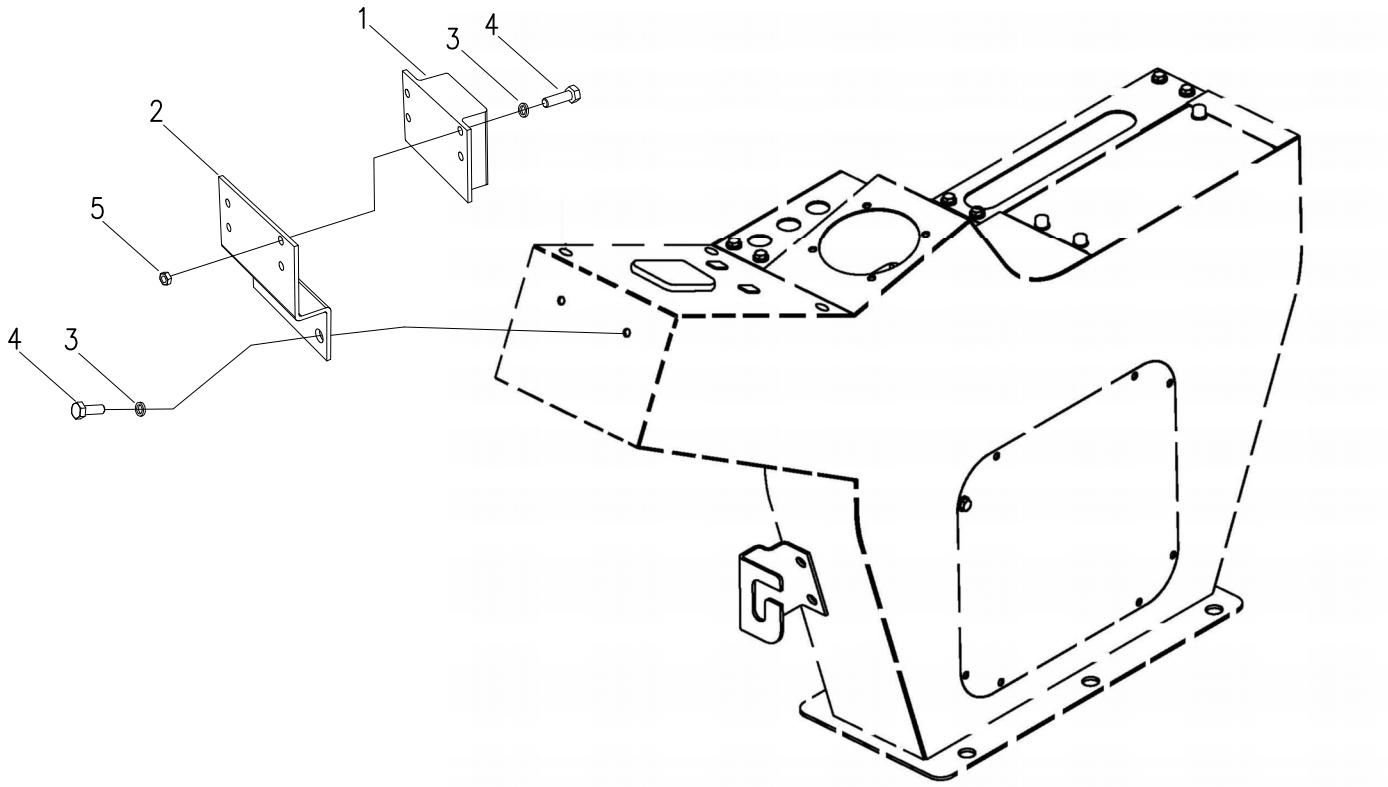
(OPTIONAL)



BE220G

ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 AC 01003	AC KIT	1	
	175 ACB 0027	.COMPRESSOR	1	
	175 ACB 0035	.CONDENSOR ASSY	1	
	175 ACB 0051	.EVAPORATOR ASSY	1	
02	156 AC 10165	.BELT	1	CX42

FIG. 9040 GPS (OPTIONAL)



ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 EG 81034	GPS	1	
02	156 ZZ 13537	BRACKET	1	
03	CPW05 06023	WASHER	6	
04	CFS01 20615	SCREW	6	
05	CFN01 20652	NUT-HEX	4	

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X. INDEX

PART NUMBER	F/NO.	I/NO.	PART NUMBER	F/NO.	I/NO.	PART NUMBER	F/NO.	I/NO.
007433143005	8000	20	154 EH 60386	5050	09	155 BH 51988	7020	02
007433203015	8000	19	154 FL 01008	1080		155 BH 51996	7020	03
007433443005	8000	10	154 FL 02004	1080	01	155 BH 52319	7030	13
007434690125	8000	22	155 BH 02017	7000	15	155 BH 62022	7020	16
007434690385	8000	21	155 BH 02025	7000	20	155 BH 91564	7000	35
007435871415	8000	23	155 BH 02033	7000	32	155 BH 93013	7010	09
007836410115	8000	24	155 BH 02041	7000	33	155 BHB 0242	7020	
008017561735	8000	17	155 BH 02058	7000	07	155 BHB 0259	7030	
030104001000	8000	12	155 BH 02066	7000	25	155 CC 02419	1115	10
09483 00305	1070	11	155 BH 02066	7010	10	155 CC 02419	1120	20
09483 00308	1070	10	155 BH 02074	7000	34	155 CC 02492	5071	04
105 DZ 70148	8010	01	155 BH 02099	7010	15	155 CC 02508	5071	03
105 DZ 70172	8010	14	155 BH 02114	7020	01	155 CC 14497	5071	05
110 CT 61072	3050	10	155 BH 02122	7020	08	155 CC 14504	5071	06
110 TI 00111	8000	01	155 BH 02139	7020	09	155 CC 94558	5071	02
110 TI 02007	8000	18	155 BH 02147	7020	13	155 CO 02273	4100	10
113 CX 11773	5140	03	155 BH 02147	7020	17	155 CO 02281	1030	02
113 EC 91119	1105	06	155 BH 02593	7010	01	155 CO 02298	1030	03
113 TF 12402	3040	07	155 BH 11332	7000	36	155 CO 13881	2110	05
125 EF 02058	5081	05	155 BH 11349	7000	26	155 CO 13905	1030	10
125 EF 91167	5081	01	155 BH 11349	7010	14	155 CO 13921	1030	07
125 EF 91401	5081	01A	155 BH 11349	7020	07	155 CO 14001	5140	06
125 EG 82179	1140	22	155 BH 11349	7020	12	155 CO 14156	1030	05
125 EG 91672	1130	38	155 BH 11357	7000	12	155 CO 61606	4100	13
125 EG 91672	4090	10	155 BH 11413	7000	21	155 CO 62213	4100	12
125 EG 91753	1115	02	155 BH 11413	7000	27	155 CO 64011	1030	20
125 EG 91761	1115	02A	155 BH 11413	7010	11	155 CO 73984	2110	03
125 EW 02711	1120	15	155 BH 11413	7010	16	155 CO 93894	1030	04
125 FL 91006	1080	07	155 BH 11454	7000	08	155 CO 94088	1040	01
125 FL 92668	1170	01	155 BH 11454	7000	17	155 CO 94096	1040	04
130 AL 00104	9010	01	155 BH 11462	7000	13	155 CT 11034	3050	06
130 EG 81212	1140	08	155 BH 11462	7020	10	155 CT 11042	3050	09
130 EG 81959	1115	06	155 BH 11462	7020	14	155 CT 11083	3050	08
130 EI 11014	4010	05	155 BH 11479	7000	16	155 CT 11091	3050	11
130 TF 00106	3020		155 BH 11535	7000	11	155 CT 11164	3050	01
130 TF 00114	3020		155 BH 11543	7000	06	155 CT 51243	3050	04
130 TF 00122	3020		155 BH 11551	7000	37	155 CT 51268	3050	05
135 CO 91509	4090	02	155 BH 12037	7020	18	155 CT 61069	3050	07
135 PH 61008	2100	08	155 BH 12223	7030	03	155 DZ 11199	8010	
135 TF 41765	3020	07	155 BH 12231	7030	04	155 DZ 11199	8010	
135 TF 61789	3020	08	155 BH 12272	7030	08	155 DZ 21331	8010	09
136 PH 22037	2100	12	155 BH 12289	7030	09	155 DZ 71058	8010	07
136 PH 22037	4160	11	155 BH 12329	7030	14	155 DZ 71074	8010	05
154 BH 02019	7030	01	155 BH 12442	7000	43	155 DZ 71188	8010	02
154 BH 10273	7030	02	155 BH 12986	7030	12	155 DZ 71203	8010	03
154 EH 02195	5050	12	155 BH 12994	7030	12	155 DZ 90148	8010	19
154 EH 03012	5050	01	155 BH 51403	7000	02	155 EC 02025	5040B	06
154 EH 03029	5050	08	155 BH 51785	7010	03	155 EC 02058	1070	16
154 EH 10392	5050	04	155 BH 51817	7010	04	155 EC 02066	1070	12
154 EH 10408	5050	10	155 BH 51825	7010	02	155 EC 02074	1070	15

PART NUMBER	F/NO.	I/NO.
155 EC 11721	1070	14
155 EC 11819	1060	04
155 EC 11827	1060	06
155 EC 61731	1070	17
155 EC 61837	1060	05
155 EG 02028	1130	09
155 EG 02166	5071	10
155 EG 11262	1150	05
155 EG 11895	1115	23
155 EG 12526	1140	10
155 EG 61904	1115	22
155 EG 81928	1115	12
155 EG 82495	1120	10
155 EG 82551	1105	07
155 EG 92303	1115	19
155 EH 02306	5050	17
155 EH 02444	1020	01
155 EH 12618	5050	15
155 EH 12626	5060	08
155 EH 12683	5030	09
155 EH 13063	5030	13
155 EH 63057	5050	07
155 EI 02009	1000	04
155 EI 02017	1000	01
155 EI 11049	1000	05
155 EI 11357	1000	06
155 EI 11365	1000	08
155 EI 11373	1000	09
155 EI 11381	1000	07
155 FL 02051	1080	05
155 FL 91347	1170	07
155 FL 91355	1170	06
155 FL 91371	1080	14
155 HC 02225	6130	19
155 HC 02233	6130	20
155 HC 02241	6130	21
155 HC 02258	6130	26
155 HC 02266	6130	
155 HC 02274	6130	
155 HC 02299	6150	16
155 HC 02306	6150	19
155 HC 02314	6150	24
155 HC 02339	6140	21
155 HC 02347	6140	22
155 HC 02355	6140	31
155 HC 02371	6130	
155 HC 02388	6140	
155 HC 02396	6150	
155 HC 09021	6130	
155 HC 09038	6130	
155 HC 09046	6140	
155 HC 09054	6150	
155 HC 09102	6130	01
155 HC 09176	6150	01
155 HC 09232	6140	01
155 HC 11613	6130	14
155 HC 11662	6140	13
155 HC 11784	6130	02
155 HC 11784	6140	02
155 HC 11784	6150	17
155 HC 11816	6130	27
155 HC 11816	6150	25
155 HC 11905	6150	02
155 HC 11962	6140	27
155 HC 12026	6140	20
155 HC 12034	6140	18
155 HC 12042	6140	35
155 HC 12067	6140	32
155 HC 12075	6140	40
155 HC 19025	6140	15
155 HC 19066	6130	16
155 HC 19066	6150	13
155 HC 19099	6130	13
155 HC 19139	6130	06
155 HC 19188	6150	06
155 HC 19269	6140	06
155 HC 61226	6130	05
155 HC 61226	6150	05
155 HC 79071	6130	17
155 HC 79071	6150	14
155 HC 79144	6130	08
155 HC 79152	6130	09
155 HC 79152	6150	08
155 HC 79225	6140	16
155 HC 79241	6140	08
155 HC 79258	6140	41
155 HC 79274	6140	09
155 HC 91301	6130	18
155 HC 91301	6140	17
155 HC 91301	6150	15
155 HC 91561	7010	08
155 HC 91561	7020	06
155 HC 91934	6150	03
155 HC 91959	6140	05
155 HC 92014	6140	12
155 HC 99087	6130	15
155 HC 99087	6150	12
155 HC 99119	6130	34
155 HC 99119	6150	34
155 HC 99127	6130	12
155 HC 99127	6150	11
155 HC 99216	6140	14
155 HP 61156	5140	04
155 HS 00018	2080	
155 HS 01012	2080	
155 HS 02041	6080	07
155 HS 02058	6080	06
155 HS 02066	6080	25
155 HS 02074	6080	24
155 HS 02114	6080	26
155 HS 02147	6080	12
155 HS 11349	6080	28
155 HS 11949	6080	20
155 HS 11957	6080	27
155 HS 12604	2080	08
155 HS 42559	2080	01
155 HS 42591	2080	10
155 HS 52579	2080	05
155 HS 62622	2080	02
155 HS 71468	6080	33
155 HS 71808	6080	10
155 HS 92617	2080	03
155 IP 81027	1105	08
155 PA 02064	6230	18
155 PH 02326	4160	41
155 PH 02407	4160	22
155 PH 02431	4160	
155 PH 02489	2100	15
155 PH 02512	2100	07
155 PH 11958	2090	09
155 PH 11974	6220	28
155 PH 11974	6230	19
155 PH 12005	2090	08
155 PH 12808	4160	44
155 PH 12816	4160	45
155 PH 12824	4160	46
155 PH 12832	4160	47
155 PH 61927	2090	05
155 PH 61927	4070	09
155 PH 73178	2100	11
155 PH 73267	2100	10
155 PH 93436	4160	43
155 PH 93752	6210	15
155 PH 93914	2100	14
155 SO 02018	4000	06
155 SO 02026	4000	07
155 SO 02034	7000	40
155 SO 11066	4000	02
155 SO 11155	4000	08
155 SO 61076	4000	03

PART NUMBER	F/NO.	I/NO.
155 SO 91743	4000	01
155 SOB 0024	4000	03
155 TF 02011	3010	19
155 TF 02052	3020	
155 TF 02069	3031	
155 TF 02077	3040	
155 TF 02109	3000	06
155 TF 02133	3020	
155 TF 03057	3020	01
155 TF 03073	3031	01
155 TF 11579	3010	07
155 TF 11619	3010	12
155 TF 11627	3010	02
155 TF 11643	3010	24
155 TF 11676	3010	08
155 TF 11692	3000	02
155 TF 11692	5000	02
155 TF 11732	3010	21
155 TF 11749	3000	09
155 TF 12056	3020	04
155 TF 12178	3031	03
155 TF 12226	3031	10
155 TF 12267	3031	08
155 TF 12267	3040	10
155 TF 12356	3040	03
155 TF 12729	3020	10
155 TF 32282	3040	01
155 TF 41581	3010	15
155 TF 41598	3010	04
155 TF 41605	3010	01
155 TF 42115	3020	09
155 TF 42197	3031	07
155 TF 42204	3031	09
155 TF 42245	3031	05
155 TF 42318	3040	09
155 TF 42326	3040	04
155 TF 52346	3040	06
155 TF 61701	3000	03
155 TF 61701	5000	03
155 TF 62017	3031	04
155 TF 62211	3040	05
155 TF 62236	3031	06
155 TF 92255	3031	02
155 TF 92709	3020	02
155 TFB 0034	3010	
155 TFB 0042	3031	
155 TFB 0059	3031	
155 TFB 0067	3031	
155 TFB 0075	3040	
155 TFB 0083	3040	

PART NUMBER	F/NO.	I/NO.
155 TFB 0091	3040	
156 AC 01003	9030	01
156 AC 10165	9030	02
156 BH 02007	7000	01
156 BHB 0013	7000	
156 CO 02036	4100	01
156 CO 02044	4080	01
156 CO 02052	4100	03
156 CO 02069	4090	01
156 CO 02077	1030	17
156 CO 12437	4100	04
156 CO 12501	4100	06
156 CO 12518	4100	02
156 CO 12526	4080	02
156 CO 12534	4100	05
156 CO 12591	4090	06
156 COB 0026	1030	#
156 CW 02009	5000	06
156 DA 91003	1010	01
156 DZ 20228	8010	11
156 DZ 90059	8010	25
156 DZ 90075	8010	26
156 DZ 90091	8010	27
156 DZ 90107	8010	20
156 DZ 90115	8010	23
156 DZ 90123	8010	24
156 DZ 90131	8010	18
156 DZ 90156	8010	22
156 DZ 90204	8010	29
156 DZ 90237	8010	28
156 DZ 90245	8010	21
156 DZ 90253	8010	30
156 EC 02023	1060	
156 EC 02031	6210	02
156 EC 02048	6210	08
156 EC 02056	6210	04
156 EC 02064	6210	09
156 EC 02072	1070	18
156 EC 03117	1060	01
156 EC 03117	5040B	13
156 EC 03166	1070	25
156 EC 03222	1070	29
156 EC 03239	1070	03
156 EC 11282	1060	
156 EC 11299	1060	
156 EC 11477	6210	06
156 EC 11485	1070	06
156 EC 61819	6210	05
156 EC 61908	1070	04
156 EC 61916	1070	02

PART NUMBER	F/NO.	I/NO.
156 EG 81001	1130	35
156 EG 81034	9040	01
156 EH 02142	5060	04
156 EH 02442	5010	04
156 EH 02483	5030	01
156 EH 02531	5030	02
156 EH 02548	5030	03
156 EH 02637	5020	05
156 EH 02645	5040B	03
156 EH 03139	5040A	01
156 EH 03147	5040A	02
156 EH 03155	5010	02
156 EH 03163	5010	03
156 EH 03171	5010	05
156 EH 03188	5010	06
156 EH 03196	5010	07
156 EH 03203	5030	04
156 EH 03211	5030	05
156 EH 03228	5010	01
156 EH 03244	5040A	12
156 EH 04038	5040A	03
156 EH 11222	5060	05
156 EH 11239	5060	06
156 EH 13012	5010	08
156 EH 13126	5020	01
156 EH 13134	5020	02
156 EH 13142	5030	06
156 EH 13167	5060	01
156 EH 13175	5060	09
156 EH 13183	5020	03
156 EH 13191	5020	04
156 EH 13223	5040B	02
156 EH 13272	5020	06
156 EH 13459	5040A	04
156 EH 13589	5060	07
156 EH 13897	1060	10
156 EH 13912	1060	02
156 EH 13937	5040B	01
156 EI 02056	1000	02
156 EI 02064	1000	03
156 EI 10001	1010	04
156 EI 90039	1020	02
156 EW 02207	1105	04
156 EW 02215	1140	21
156 EW 02223	1140	14
156 EW 02248	1120	16
156 EW 02272	1130	39
156 EW 02289	1130	01
156 EW 02297	1150	01
156 EW 02304	1115	01

PART NUMBER	F/NO.	I/NO.	PART NUMBER	F/NO.	I/NO.	PART NUMBER	F/NO.	I/NO.
156 EW 02312	1130	04	156 PM 02621	6170	02	156 PM 60529	6170	08
156 EW 02329	1140	01	156 PM 02638	4140	20	156 PM 90475	6170	04
156 EW 02337	1120	21	156 PM 02646	6190	02	156 PM 90483	2090	14
156 EW 02345	1130	37	156 PM 02654	6190	01	156 PM 90572	6190	04
156 FD 02303	2100	01	156 PM 02662	6200	12	156 PM 90597	4120	12
156 FD 02303	2120	01	156 PM 10073	6160	03	156 PM 90597	4140	19
156 FD 02311	2120	02	156 PM 10535	2090	16	156 PM 90597	4150	13
156 HM 91224	6090	01	156 PM 10543	6170	09	156 PM 91099	4130	02
156 HP 02007	5140	01	156 PM 10608	6160	11	156 PM 91106	4130	01
156 HP 90014	5140	02	156 PM 10746	4120	04	156 PM 91114	4160	19
156 HS 01068	6080		156 PM 10754	4120	05	156 PM 91122	4160	21
156 HS 02023	6080	18	156 PM 10762	4120	06	156 PM 91147	4160	39
156 HS 02031	6080	21	156 PM 10779	4120	07	156 PM 91171	4160	40
156 HS 02056	6080	01	156 PM 10787	4120	08	156 PM 91188	4160	67
156 HS 02186	6080	23	156 PM 10795	4120	09	156 PM 91206	4160	25
156 HS 12473	4160	02	156 PM 10802	4120	10	156 PM 91216	6000	01
156 IP 11146	1095	01	156 PM 10819	4120	11	156 PM 91244	4160	27
156 IP 81155	1095	02	156 PM 11159	4160	04	156 PM 91252	4160	59
156 PA 02005	6230	08	156 PM 11564	4070	03	156 PM 91285	4110	09
156 PA 02151	6230	06	156 PM 12399	2100	18	156 PM 91293	4110	10
156 PA 02168	6230	07	156 PM 12552	4140	07	156 PM 91309	2110	01
156 PA 02176	6220	16	156 PM 12569	4140	08	156 PM 91966	4160	35
156 PA 02184	6220	17	156 PM 12577	4140	09	156 PM 92249	4160	60
156 PA 10098	6220	24	156 PM 12585	4140	11	156 RF 02047	5000	01
156 PA 10105	6220	18	156 PM 12609	4140	12	156 RF 11524	5000	07
156 PA 10105	6230	12	156 PM 12617	4140	13	156 RF 11946	4140	23
156 PA 10219	6220	27	156 PM 12625	4140	14	156 SO 01077	4010	01
156 PH 03815	4110		156 PM 12633	4140	15	156 TF 02034	3000	01
156 PH 11778	4160	24	156 PM 12641	4140	16	156 TI 90017	8000	02
156 PH 11842	4160	09	156 PM 12658	4140	18	156 TI 90025	8000	03
156 PH 11891	4160	34	156 PM 12666	4140	17	156 ZZ 11414	1050	01
156 PH 93645	4160	03	156 PM 12674	4150	01	156 ZZ 11422	1050	04
156 PM 02192	2090	01	156 PM 12682	4150	02	156 ZZ 11625	4150	
156 PM 02208	2090	02	156 PM 12699	4150	03	156 ZZ 11633	4150	15
156 PM 02216	2090	03	156 PM 12706	4150	04	156 ZZ 11641	4150	14
156 PM 02224	2090	04	156 PM 12714	4150	05	156 ZZ 11658	4150	16
156 PM 02232	4110	11	156 PM 12722	4150	06	156 ZZ 11699	6180	10
156 PM 02249	4120	01	156 PM 12739	4150	07	156 ZZ 13537	9040	02
156 PM 02249	4160	56	156 PM 12747	4150	08	157 CV 02101	4140	04
156 PM 02265	4160	26	156 PM 12755	4150	09	157 CV 02101	4160	28
156 PM 02313	6200	01	156 PM 12763	4150	10	157 EFB 0017	9000	01
156 PM 02321	6200	02	156 PM 12771	4150	11	157 PH 02209	6170	03
156 PM 02338	6200	03	156 PM 12788	4150	12	157 PH 14473	4160	65
156 PM 02346	6200	04	156 PM 12796	4150	17	160 BH 31646	7030	06
156 PM 02354	6200	05	156 PM 12803	4140	01	160 DZ 71015	8010	16
156 PM 02362	6200	06	156 PM 12811	4140	10	160 PA 11004	6230	21
156 PM 02549	6160	01	156 PM 12877	4150	18	160 PH 02195	6200	16
156 PM 02557	6160	02	156 PM 12917	4070	10	160 PH 11534	6200	13
156 PM 02605	6190	03	156 PM 60512	2090	15	160 RF 11102	5000	09
156 PM 02613	6170	01	156 PM 60529	4160	55	160 RF 11119	5000	10

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160 RF 11127	5000	11
171 EF 02019	5081	04
171 EG 11264	1115	15
171 EH 02195	5040A	10
171 HS 91047	6080	11
171 HS 91209	6080	22
171 PH 11319	6230	15
171 TF 11629	3020	03
175 ACB 0027	9030	
175 ACB 0035	9030	
175 ACB 0051	9030	
175 CC 02073	5071	11
176 FL 10006	4160	07
181 DZ 71219	8010	10
181 HS 61009	6080	15
182 PH 91684	4160	38
182 PH 91757	4160	08
183 CO 02106	4090	05
183 OS 90024	5150	01
190900000100	8000	16
206 939 5120	7030	05
375 EC 91179	1070	13
375 FE 91323	5050	18
42106 11930	1120	07
474 PH 12486	2100	13
474 PH 12486	4160	12
504300420000	8000	11
520900000200	8000	26
520900000520	8000	27
520900000620	8000	04
520900000720	8000	05
520900000801	8000	28
520900000920	8000	13
520900010000	8000	07
520900020000	8000	08
520900030000	8000	06
520900040000	8000	09
520900070001	8000	14
520900080000	8000	15
7455590505	8000	25
761 EG 12185	1140	15
762 HS 03279	6080	04
763 TF 01027	3050	
763 TF 02015	3050	
764 FL 02012	1170	02
781 PH 02928	4160	50
781 PH 11173	2090	19
781 PH 91364	4160	30
781 PH 92847	4160	52
782 CO 11094	2110	02
782 EG 11635	1120	11
782 PH 13294	4110	07
782 PH 13294	4130	03
782 PH 13294	4160	15
782 PH 23768	4160	68
782 PH 23776	4110	08
782 PH 23776	4130	04
782 PH 23776	4160	14
782 PH 23792	4160	33
782 PH 23816	4160	06
782 PH 23849	4160	10
782 PH 93355	4160	23
782 PH 93371	4160	49
78619 22330	1140	03
790 PH 11294	4160	36
799 CC 01001	5071	01
799 CC 01001	5081	00
799 FG 02022	5071	16
799 PH 98313	4160	13
799 PH 98338	4160	16
817 DZ 90164	8010	08
817 FL 10085	1170	08
817 PT 11397	4160	69
953 EG 82364	1095	03
955 EGB 0119	9020	01
985 TK 02053	6080	35
BFB13 12478	7030	10
BFB34 11858	3050	02
BFN27 11824	3050	03
BPL04 11624	3020	06
BSP01 46193	3010	03
CBT02 32010	3040	02
CBZ01 00635	6140	19
CCC01 02006	1070	05
CCC01 02006	1070	07
CCC01 02006	1170	03
CCC01 03510	1070	08
CCC01 08020	1070	01
CCC01 08020	6210	10
CCC01 09020	1070	28
CCC01 09020	6190	12
CCC01 13020	6160	10
CCC02 27067	6150	28
CCC06 00814	4000	09
CCC06 01214	1120	17
CCC06 01214	1130	12
CCC06 01214	1140	06
CCC06 01814	1080	10
CCC06 01814	1130	05
CCC06 01814	1130	06
CCC06 01814	1130	15
CCC06 01814	1130	21
CCC06 01814	1130	32
CCC06 01814	1140	02
CCC06 01814	1140	13
CCC06 02514	1130	20
CCC06 02514	1130	22
CCC06 10810	1120	06
CCC06 11214	6080	30
CCC06 21814	1070	23
CCC07 22738	6130	30
CCC07 22738	6140	36
CCC07 26155	1070	26
CCC08 00100	6080	29
CCC10 00414	1140	12
CCC10 00536	2100	09
CCC12 01711	1140	05
CCP04 21200	1080	02
CDN01 01240	1030	01
CDS01 03000	8010	12
CDS07 03000	8010	06
CDS08 03000	8010	17
CDS09 00002	8010	04
CDS11 30060	8010	15
CDS12 00002	8010	13
CEB01 11151	1160	01
CEC03 00035	1130	30
CEC03 22511	1160	05
CEF02 00150	1115	03
CEF02 00200	1115	04
CEH02 24120	1120	02
CEK01 20000	1105	05
CEL11 12412	1120	01
CEL11 12412	1150	02
CEL25 12470	1120	
CEL25 12470	1150	
CET04 01175	1160	02
CET04 02160	1160	03
CEW03 41606	1130	02
CEW03 41639	1130	03
CEW03 42603	1160	04
CEW03 42604	1130	25
CEW03 42636	1130	31
CFB01 12250	6220	25
CFB01 20835	2080	12
CFB01 20845	6130	23
CFB01 20845	6140	24
CFB01 20845	6150	21
CFB01 20855	6130	24
CFB01 20855	6140	25

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CFB01 20855	6150	22
CFB01 21035	6160	14
CFB01 21050	6160	13
CFB01 21080	6140	29
CFB01 21080	6190	11
CFB01 21205	6170	11
CFB01 21245	6220	19
CFB01 21250	5140	10
CFB01 21260	4140	03
CFB01 21270	1060	07
CFB01 21270	5140	12
CFB01 21285	6230	22
CFB01 21655	2120	03
CFB01 21660	6150	07
CFB01 21670	3010	10
CFB01 21670	6130	07
CFB01 21680	3040	12
CFB01 21685	2120	04
CFB01 21690	3031	11
CFB01 22070	4000	15
CFB01 31280	4160	53
CFB02 21610	5140	07
CFB07 21430	1150	06
CFB07 21440	6200	18
CFB07 21875	6140	07
CFB08 22215	4000	13
CFB19 51265	1030	08
CFB27 10830	6220	04
CFB27 10830	6220	22
CFB27 11030	2090	18
CFB27 11035	6220	09
CFB27 11035	6220	12
CFB27 11035	6230	04
CFB27 11040	6230	10
CFB27 11240	6170	10
CFB27 11240	6200	10
CFF01 08420	1080	03
CFG03 12039	2100	04
CFG03 12039	4070	06
CFG03 12039	6220	03
CFG03 12039	6220	21
CFG03 12039	6230	26
CFG03 16045	6220	08
CFG03 16045	6220	11
CFG03 16045	6230	03
CFL01 14518	3010	18
CFL01 18530	2080	09
CFL02 11410	4160	48
CFL06 10110	2080	04
CFL10 13104	6130	04

PART NUMBER	F/NO.	I/NO.
CFL10 13104	6150	04
CFL10 13114	6140	04
CFN01 10432	1140	20
CFN01 20652	9040	05
CFN01 20868	1070	20
CFN01 21084	1030	16
CFN01 21084	5040B	09
CFN01 21211	1060	09
CFN01 21211	4090	03
CFN01 21211	6160	08
CFN01 21211	5040B	12
CFN01 22018	7000	14
CFN01 22018	7020	11
CFN01 22018	7020	15
CFN01 22018	7020	19
CFN02 10868	1050	05
CFN03 11012	6200	17
CFN19 41411	1150	03
CFN20 21207	2110	04
CFN26 12430	7030	11
CFN28 11011	6130	31
CFN28 11011	6140	37
CFN28 21011	1070	27
CFN28 21214	4140	24
CFN36 11210	1030	11
CFP01 01612	5050	11
CFP01 03218	5030	12
CFP01 03232	1030	12
CFP01 04025	2090	11
CFP01 04040	5040A	11
CFP02 10618	1030	19
CFP02 11028	1040	05
CFP04 00616	1030	06
CFP04 01842	2120	06
CFP04 01842	4000	12
CFP11 00612	1030	22
CFP11 01018	1040	06
CFP13 05024	4090	07
CFP15 02516	7030	07
CFS01 20430	4090	08
CFS01 20512	1120	12
CFS01 20612	4080	03
CFS01 20612	4100	07
CFS01 20615	9040	04
CFS01 20616	5081	02
CFS01 21016	1070	22
CFS01 21016	4100	11
CFS01 21020	1070	32
CFS01 21020	4140	05
CFS01 21020	5050	05

PART NUMBER	F/NO.	I/NO.
CFS01 21025	1070	30
CFS01 21040	1170	04
CFS01 21060	5040B	08
CFS01 21230	5040B	11
CFS01 21635	1170	09
CFS01 22050	3000	07
CFS01 30612	7000	38
CFS01 30616	4160	61
CFS01 30620	4160	63
CFS01 30645	5040A	07
CFS01 30810	1120	03
CFS01 30816	1070	24
CFS01 30816	1130	28
CFS01 30820	1050	07
CFS01 30820	1120	04
CFS01 30820	1120	08
CFS01 30825	5040A	06
CFS01 30830	2090	07
CFS01 30830	2100	05
CFS01 30830	4070	08
CFS01 30830	6230	27
CFS01 31016	1130	16
CFS01 31016	1140	16
CFS01 31016	4000	10
CFS01 31020	1010	02
CFS01 31020	1050	02
CFS01 31020	4090	04
CFS01 31020	5071	12
CFS01 31020	6150	29
CFS01 31020	7000	41
CFS01 31025	1115	24
CFS01 31025	1130	26
CFS01 31025	3040	08
CFS01 31025	5030	07
CFS01 31025	5071	14
CFS01 31025	5140	14
CFS01 31030	4070	12
CFS01 31030	5150	02
CFS01 31035	6130	28
CFS01 31035	6140	33
CFS01 31035	6150	26
CFS01 31035	6210	14
CFS01 31050	1030	15
CFS01 31220	1080	11
CFS01 31220	1115	20
CFS01 31225	1120	18
CFS01 31225	1130	07
CFS01 31225	1130	10
CFS01 31225	1130	13
CFS01 31225	1130	18

PART NUMBER	F/NO.	I/NO.
CFS01 31225	1130	23
CFS01 31225	1130	33
CFS01 31225	3000	04
CFS01 31225	3010	13
CFS01 31225	3010	22
CFS01 31225	3010	25
CFS01 31225	4160	54
CFS01 31225	5050	02
CFS01 31225	5060	02
CFS01 31225	5040A	08
CFS01 31225	5040B	04
CFS01 31230	1030	13
CFS01 31230	1040	02
CFS01 31230	2090	12
CFS01 31230	4080	05
CFS01 31230	4100	14
CFS01 31230	4110	13
CFS01 31230	4120	03
CFS01 31230	4140	21
CFS01 31230	4160	58
CFS01 31230	5000	04
CFS01 31230	5010	09
CFS01 31230	5020	08
CFS01 31230	5050	13
CFS01 31230	6080	13
CFS01 31235	1080	13
CFS01 31235	4160	66
CFS01 31235	6080	16
CFS01 31235	6170	07
CFS01 31235	6210	12
CFS01 31235	7000	18
CFS01 31235	7000	22
CFS01 31235	7000	28
CFS01 31235	7010	12
CFS01 31235	7010	17
CFS01 31240	6230	13
CFS01 31240	6230	16
CFS01 31245	6080	34
CFS01 31630	6160	06
CFS01 31630	6160	15
CFS01 31635	1000	10
CFS01 31635	1080	08
CFS01 31635	6080	31
CFS01 31635	6190	08
CFS01 31640	1010	05
CFS01 31640	6190	09
CFS01 31640	7000	09
CFS01 31655	6160	16
CFS01 32055	7030	15
CFS01 31035	6200	15
CFS01 31230	6200	11
CFS01 31230	3000	11
CFS01 32065	4010	02
CFS02 10412	1140	18
CFS13 11030	2100	19
CFS13 12070	6190	10
CFS13 31230	2090	21
CFS13 31230	4070	05
CFS13 41025	5050	16
CFS15 10408	5030	10
CFS15 10410	1115	16
CFS15 10412	1115	07
CFS15 10516	5071	07
CFS15 10516	6080	08
CFS15 10616	1115	05
CFS15 10616	1115	13
CFS15 10625	1095	05
CFS15 10625	1105	01
CFW01 10410	1115	17
CFW01 10410	1140	19
CFW01 10513	5071	08
CFW01 10513	6080	09
CFW01 10619	1115	11
CFW01 10619	5081	03
CFW01 10619	7000	39
CFW01 10825	2080	13
CFW01 10825	6130	25
CFW01 10825	6140	26
CFW01 10825	6150	23
CFW01 11030	1170	05
CFW01 11030	4140	06
CFW01 11030	5050	06
CFW01 11030	6130	29
CFW01 11030	6140	30
CFW01 11030	6150	27
CFW01 11030	6150	30
CFW01 11236	1160	12
CFW01 11442	1150	04
CFW01 21030	6140	34
CFW01 31030	5071	15
CFW02 10408	1115	08
CFW02 10510	1120	13
CFW02 10510	5071	09
CFW02 10816	1050	06
CFW02 11225	1030	09
CFW02 11630	2090	10
CFW02 11020	1050	03
CFW03 10406	4090	09
CFW03 10408	1115	18
CFW03 10408	5030	11
CFW03 10616	1095	04
CFW03 10616	1105	02
CFW05 06023	1070	31
CFW05 06023	1115	14
CFW05 06023	4080	04
CFW05 06023	4100	08
CFW05 06023	4160	64
CFW05 06023	5050	14
CFW05 08023	1070	19
CFW05 08023	1120	05
CFW05 08023	1120	09
CFW05 08023	1120	14
CFW05 08023	1130	29
CFW05 08023	2090	06
CFW05 08023	5040A	05
CFW05 10032	1010	03
CFW05 10032	1070	21
CFW05 10032	1115	09
CFW05 10032	1130	17
CFW05 10032	1130	27
CFW05 10032	1140	17
CFW05 10032	4000	11
CFW05 10032	4100	09
CFW05 10032	5030	08
CFW05 10032	5071	13
CFW05 10032	5140	15
CFW05 10032	5150	03
CFW05 10032	6130	32
CFW05 10032	6140	38
CFW05 10032	6160	12
CFW05 10032	6210	13
CFW05 10032	6220	29
CFW05 10032	6230	20
CFW05 10032	7000	42
CFW05 10032	5040B	07
CFW05 10616	4160	62
CFW05 12032	1030	14
CFW05 12032	1040	03
CFW05 12032	1060	08
CFW05 12032	1080	06
CFW05 12032	1080	12
CFW05 12032	1115	21
CFW05 12032	1120	19
CFW05 12032	1130	08
CFW05 12032	1130	11
CFW05 12032	1130	14
CFW05 12032	1130	19
CFW05 12032	1130	24
CFW05 12032	1130	34
CFW05 12032	2090	13

PART NUMBER	F/NO.	I/NO.
CFW05 12032	3000	05
CFW05 12032	3010	14
CFW05 12032	3010	23
CFW05 12032	3010	26
CFW05 12032	4080	06
CFW05 12032	4100	15
CFW05 12032	4110	12
CFW05 12032	4120	02
CFW05 12032	4140	02
CFW05 12032	4140	22
CFW05 12032	4160	57
CFW05 12032	5000	05
CFW05 12032	5010	10
CFW05 12032	5020	07
CFW05 12032	5050	03
CFW05 12032	5060	03
CFW05 12032	5140	11
CFW05 12032	5140	13
CFW05 12032	6080	14
CFW05 12032	6080	17
CFW05 12032	6160	07
CFW05 12032	6170	06
CFW05 12032	6200	09
CFW05 12032	6210	11
CFW05 12032	6220	20
CFW05 12032	6220	26
CFW05 12032	6230	14
CFW05 12032	6230	17
CFW05 12032	6230	23
CFW05 12032	7000	19
CFW05 12032	7000	23
CFW05 12032	7000	29
CFW05 12032	7010	13
CFW05 12032	7010	18
CFW05 12032	5040B	05
CFW05 12032	5040B	10
CFW05 14045	1150	07
CFW05 14045	6200	19
CFW05 16045	1000	11
CFW05 16045	1080	09
CFW05 16045	1170	10
CFW05 16045	2120	05
CFW05 16045	3010	11
CFW05 16045	3031	12
CFW05 16045	3040	13
CFW05 16045	5140	08
CFW05 16045	6080	32
CFW05 16045	6160	05
CFW05 16045	6190	07
CFW05 16045	7000	10

PART NUMBER	F/NO.	I/NO.
CFW05 20060	3000	08
CFW05 20060	4000	16
CFW05 20060	7030	16
CFW05 22060	4000	14
CFW05 10032	6200	14
CFW05 12032	3000	10
CFW05 20060	4010	03
CFW05 27080	5000	08
CFW06 08023	2100	06
CFW06 08023	4070	07
CFW06 08023	6220	05
CFW06 08023	6220	22
CFW06 08023	6230	28
CFW06 10032	2090	17
CFW06 10032	4070	11
CFW06 10032	6220	10
CFW06 10032	6220	13
CFW06 10032	6230	05
CFW06 10032	6230	11
CFW06 16045	6130	33
CFW06 16045	6150	33
CFWO5 12032	5040A	09
CFY02 20634	1030	18
CGR01 03620	1030	21
CGR03 00720	3010	16
CGR05 01610	1105	03
CGR05 05016	5140	09
CHC01 08048	6130	
CHC01 08048	6140	
CHC01 08048	6150	
CHC01 10052	6140	
CHH22 00407	4160	29
CHH22 00408	4110	01
CHH22 00408	4110	02
CHH22 00408	4110	03
CHH22 00408	4110	04
CHH22 00408	4110	05
CHH22 00408	4110	06
CHH22 00410	4160	20
CHH22 00420	4160	31
CHH22 00425	4160	32
CHH28 01208	4070	01
CHH28 01208	4070	02
CHH28 01222	2100	03
CHH28 11216	6230	24
CHH29 01208	6220	01
CHH29 01610	6220	06
CHH29 01610	6230	01
CHH29 11208	6220	14
CHH29 11608	6220	30

PART NUMBER	F/NO.	I/NO.
CHH30 29922	6160	09
CHH31 22012	1070	09
CHS01 12055	3010	06
CHS01 12055	6210	03
CHS01 12060	3020	05
CHS01 12065	6210	01
CHS01 12070	6130	35
CHS01 12070	6140	42
CHS01 12070	6150	35
CHS01 12070	6210	07
CHS01 12075	3040	11
CHS01 12105	6160	04
CHS01 12115	2080	11
CHS01 13022	1060	03
CHS01 13025	2100	02
CHS01 13025	4070	04
CHS01 13025	6220	02
CHS01 13025	6220	15
CHS01 13025	6230	25
CHS01 13028	4160	37
CHS01 13028	5140	05
CHS01 13030	6130	22
CHS01 13030	6140	23
CHS01 13030	6140	28
CHS01 13030	6150	20
CHS01 13032	6220	07
CHS01 13032	6220	31
CHS01 13032	6230	02
CHS01 13035	2090	20
CHS01 13035	2100	17
CHS01 13035	6200	07
CHS01 13035	6230	09
CHS01 13038	6190	05
CHS01 13045	6170	05
CHS01 13045	6190	06
CHS01 13045	6200	08
CHS01 15105	3010	09
CHS01 15120	6130	10
CHS01 15120	6150	09
CHS01 15130	6140	10
CHS01 15170	1080	04
CHS01 15180	6080	05
CHS01 15230	6080	19
CHS01 15330	4010	04
CHS02 02070	6130	36
CHS02 02070	6140	43
CHS02 02070	6150	36
CHS03 11423	4130	06
CHS03 11423	4160	05
CHS03 12034	2100	16

PART NUMBER		F/NO.	I/NO.
CHS03	12034	4160	01
CHS03	12434	2080	07
CHS03	13634	1130	36
CHS03	13634	6080	03
CHS12	00070	3010	17
CLN01	10000	4000	04
CLN01	10000	6150	31
CLN01	10000	7000	03
CLN01	10000	7000	24
CLN01	10000	7000	30
CLN01	10000	7010	05
CLN01	10000	7010	06
CLN01	10000	7020	04
CLN01	10000	7020	05

PART NUMBER		F/NO.	I/NO.
CLN01	10900	6140	39
CLN01	10900	6150	32
CLN02	00000	3010	05
CPF05	10813	4000	05
CPF05	10813	7000	31
CPF15	10214	4130	05
CPF15	10214	4160	17
CPF15	10422	4160	51
CPF22	10210	4160	18
CPL03	13620	6080	02
CPL06	11410	4160	42
CPL06	12414	2080	06
CPW05	06023	9040	03
CSB02	01040	6140	11

PART NUMBER		F/NO.	I/NO.
CSB02	09040	6130	11
CSB02	09040	6150	10
CSD01	00080	6130	03
CSD01	00080	6140	03
CSD01	00080	6150	18
CSD01	00090	7000	04
CSD01	00090	7000	05
CSD01	00090	7010	07
CVL01	20000	3010	20
ZFB46	10812	1140	09
ZFB46	11020	1140	04
ZFB46	11220	1140	07
ZFB46	11220	1140	11

LEFT BLANK

LEFT BLANK

HYDRAULICS

FOR HYDRAULICS,REF REXROTH INSTRUCTION MANUAL

HYD. CIRCUIT NO : HS-64.05-MAS-0046-3-1

NOTE:THE ABOVE CIRCUIT APPLICABLE FROM THE EQPT. SL.NO 16804 & UP

Rev	Revision on	Date	By	Appd.
1	TP NO 10 added during commissioning stage	20.03.14	KS	HSH

SI	TP	Description	Model	DCIN ID	Qty
1	1	Main Pump	A8VO 120 LA1KH2 /72 R 1-NZG 05 F004	R971044181	01
2	2	Control Valve	M9-25	R901289963	01
3	3	RH Joystick	4 TH6E 70-14/ST 23 M01	R907281258	01
4	4	LH Joystick	4 TH6E 70-14/ST 43 M01	R907281280	01
5	5.1 5.2	Travel Foot Pedal	2TH6 RC70 -10/M01	R907538966	02
6	6	Shuttle Manifold Block	SK-BLR-1183-4-0	R983007982	01
7	7	RH Pressure Cut Off M Block	SK-BLR-1154-4-5	R983007972	01
8	8	LH Pressure Cut Off M Block	SK-BLR-1153-4-5	R983007971	01
9	9	Stack Assy mode selection	SK-BLR-1204-4-1	R983009828	01
10	10	Shuttle Valve	RS 417	R983030721	01

NOTES:-
1. All the parts as called by technical position nos are part of Bosch Rexroth scope. All other components needs to be arranged by BEML India.
2. The pilot pressure line size must be with min of 10mm (ID).
3. The pilot drain line size must be with 12 mm (ID)or more.
4. The joy stick drain lines must be connected directly & separately to tank.
5. All the drain lines of pumps, motors,valves,blocks must also be connected to tank directly so that the drain line pressure should never exceed 1 bar.
6. As per the government regulation of India, Accumulator will be sent in discharged condition before dispatch to customer.
7. All the electrial lugs must only be crimped by using proper crimping tools.

*** All Joystick pilot lines to be connected to manifold block and to control valve by G 1/4"

-◇- Minimess Coupling (G1/4"BSP) to be provided for measuring

1. Oil Viscosity:	ISO VG 68
2. Oil Cleanliness Level:	20/18/15 as per ISO4406
3. Control Voltage:	** VDC

Customer:	– BEML LTD	
Customer no.:–	6142571	
Quotation no.:–	MA/SMC/SZ/347/3	
Order no.	–KE01/GDP/6930001535/0	
Depart. DCM/India	Document: HS	
	Date	Name
DWN	2014-01-30	KS
CHK	2014-01-30	SS
WRK		
APP	2014-02-XX	HSH

Rexroth Bosch Group

This hydraulic circuit is created from technical data made available to ourselves. Bosch Rexroth India Limited, Mobile Hydraulics, does not accept any system responsibility of the schematic

The items shown with technical position numbers are in scope of Bosch Rexroth supply. The other items shown for completeness of the schematic and are not in scope of Bosch Rexroth.

HYDRAULIC CIRCUIT FOR 22 TON EXCAVATOR – BE 220G

Sheet: 01 of: 01

Mobile Hydraulics | Scale: NTS | Size: A3 | Drawing no.: HS-64.05-MAS-0046-3-1 | Index:

Replaces: HS-64.0*–****–3–0 | Change note: