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156PAR3207



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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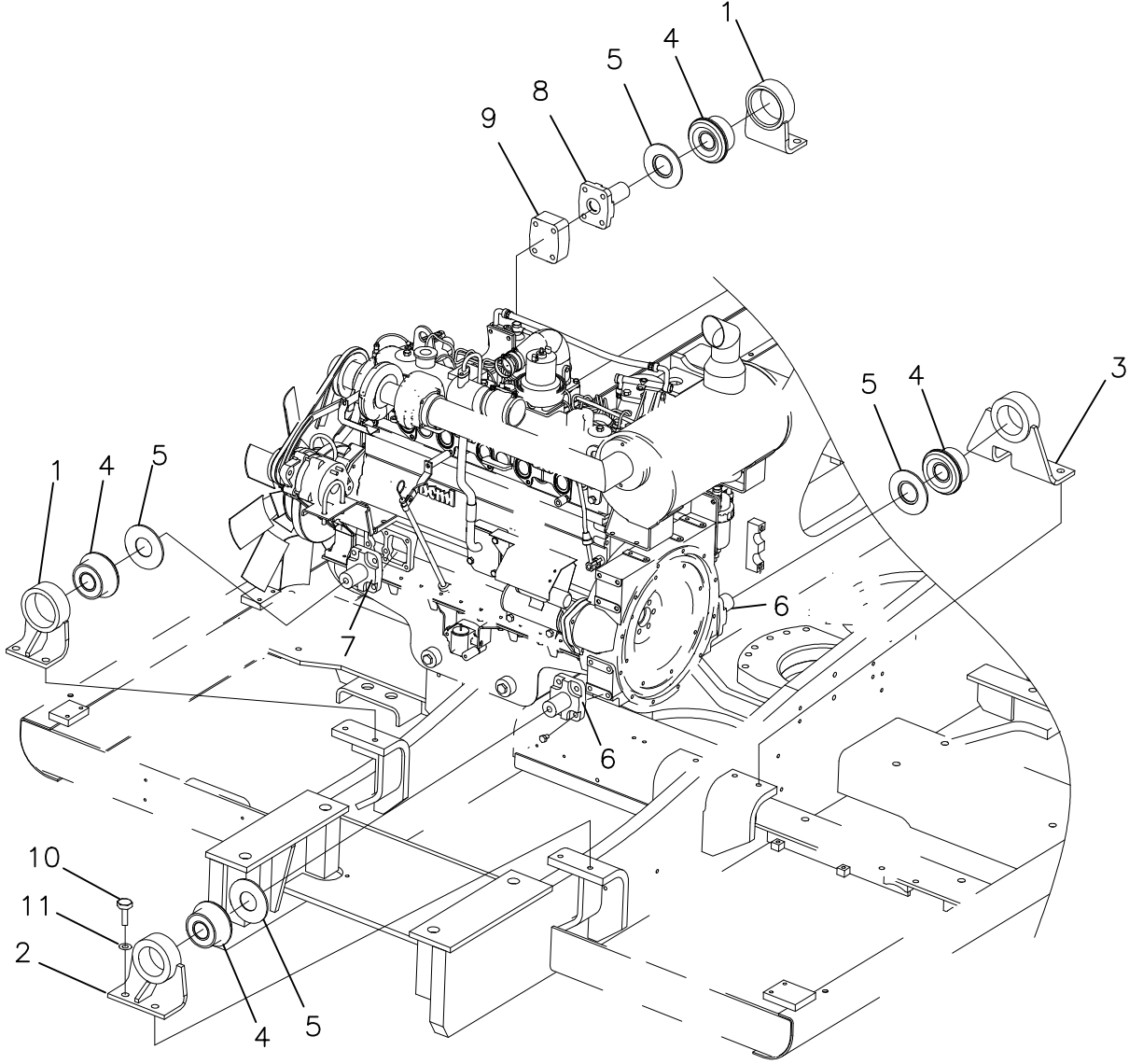
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**I. ENGINE RELATED PARTS
AND
ELECTRICAL SYSTEM**

FIG. 1000 ENGINE MOUNT

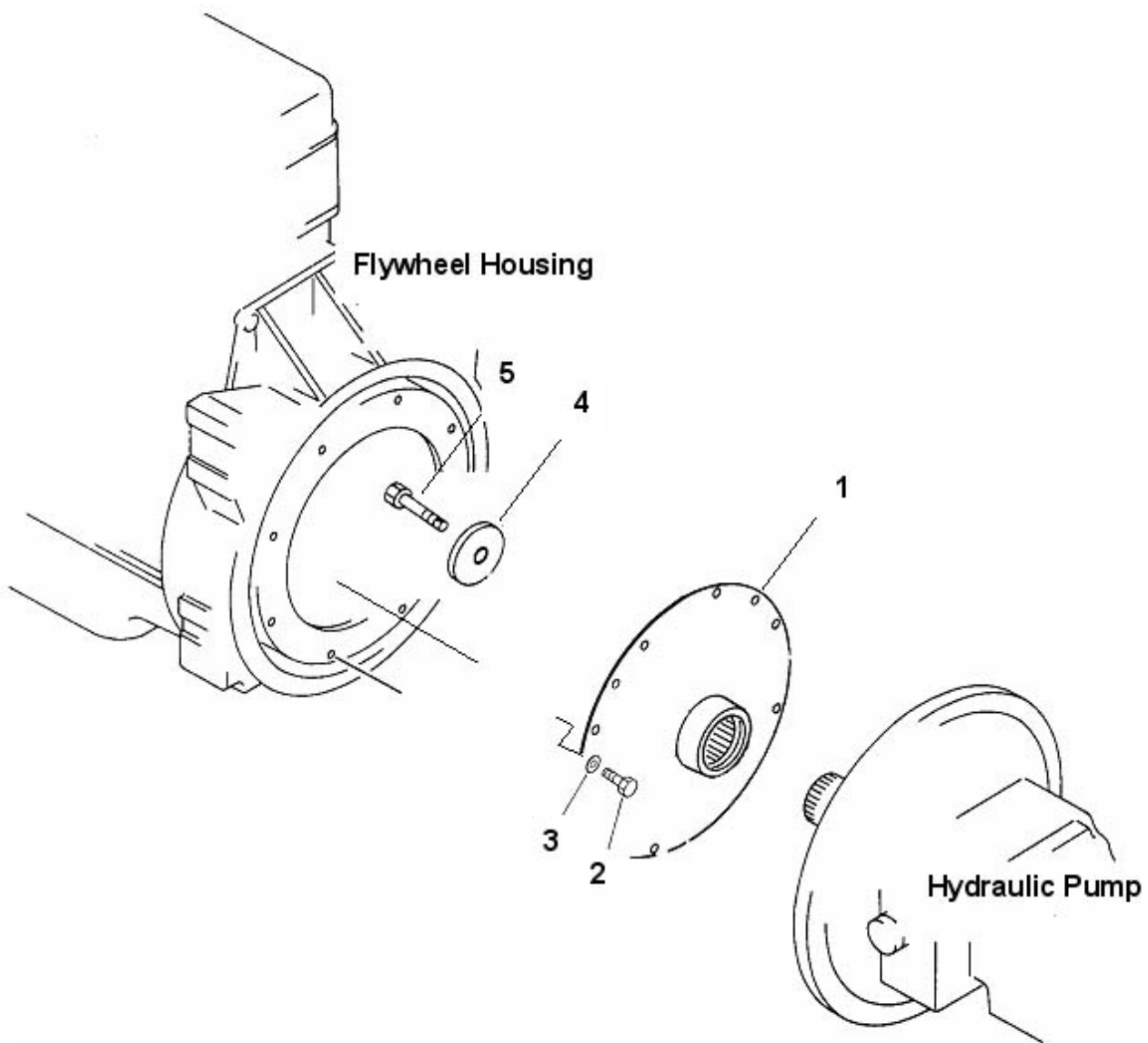


ENGINE MOUNT

FIG NO.1000

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FIG: 1010 DAMPER

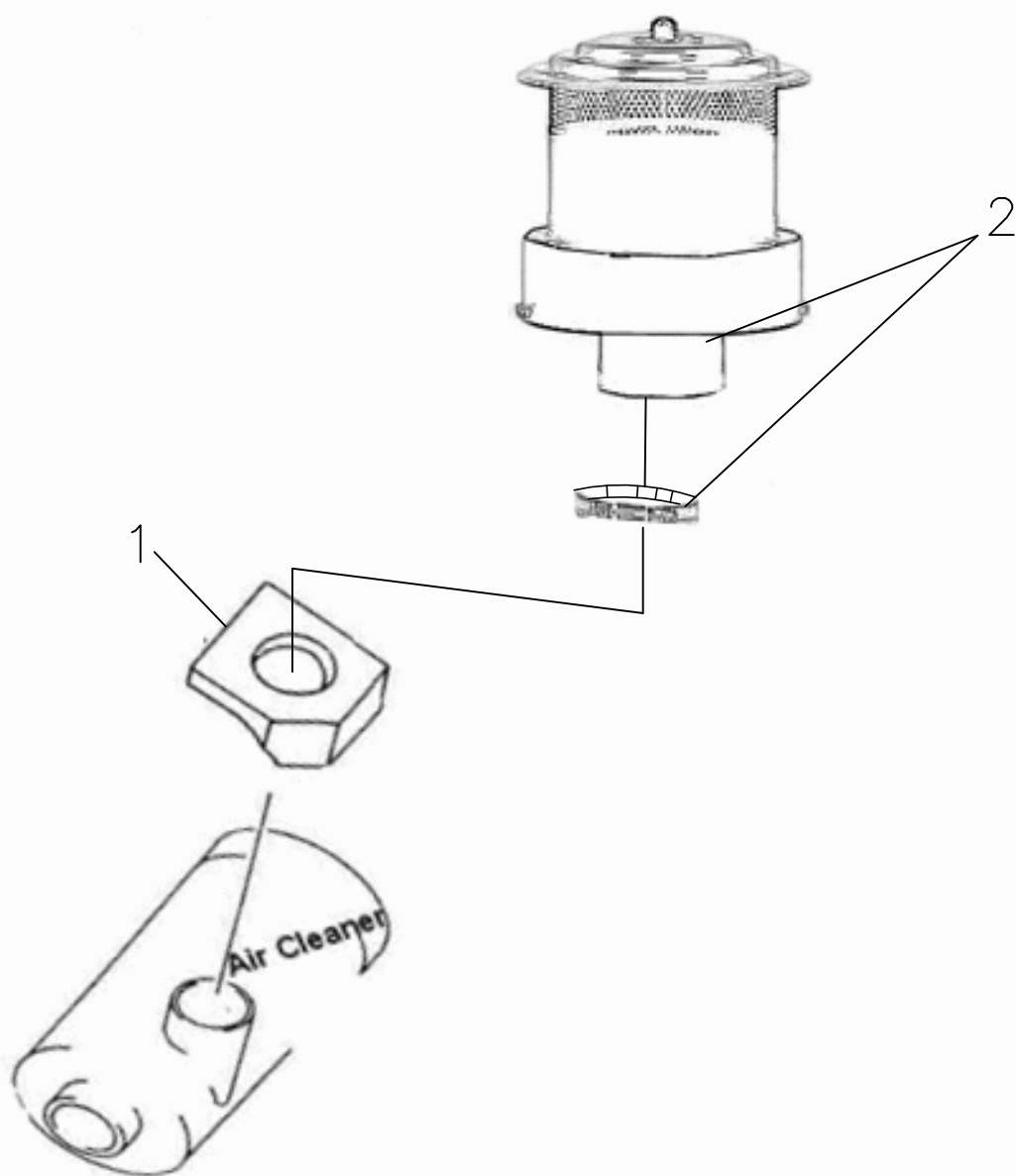


DAMPER

FIG NO.1010

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



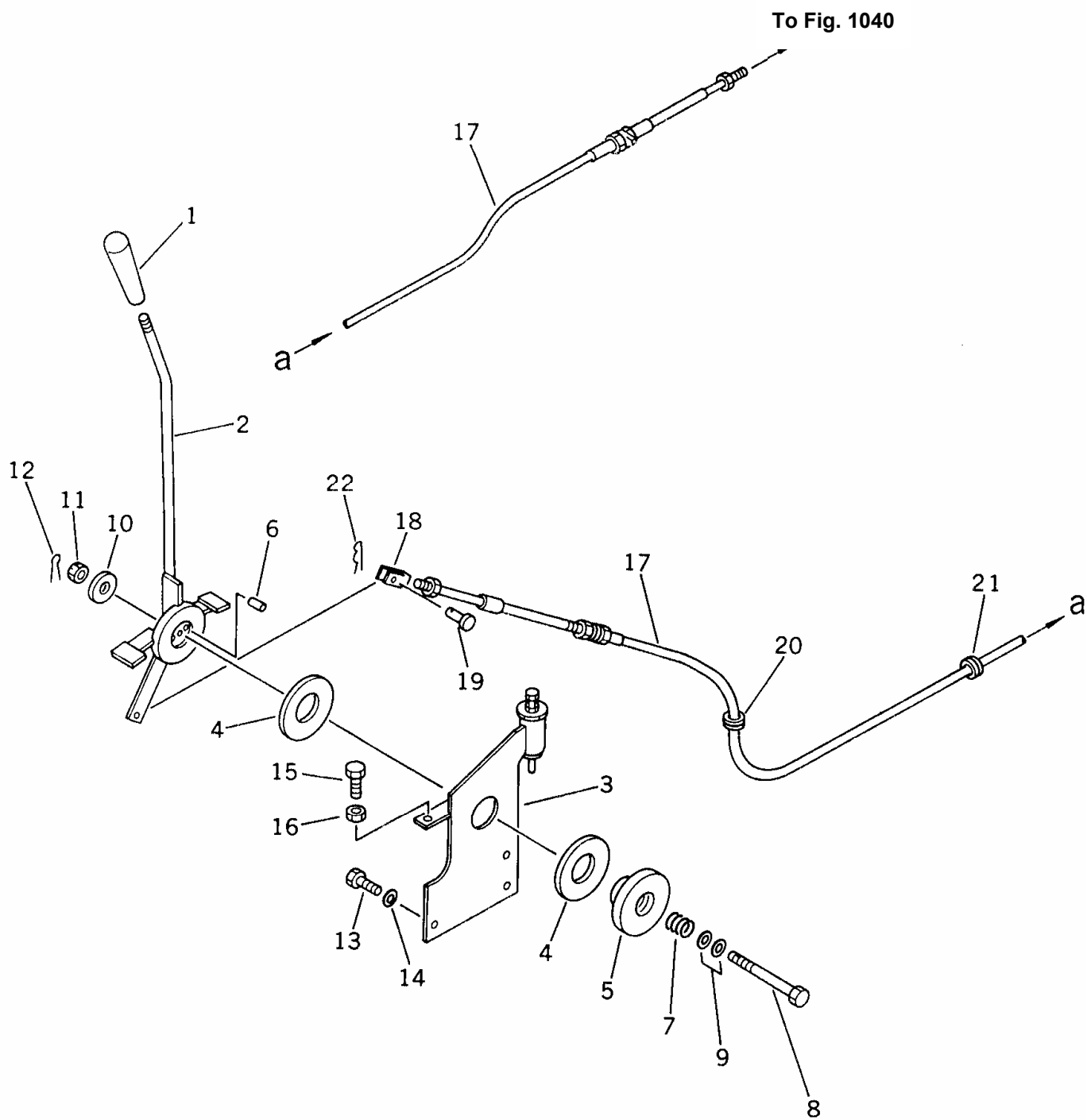
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AIR INTAKE

FIG NO.1020

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

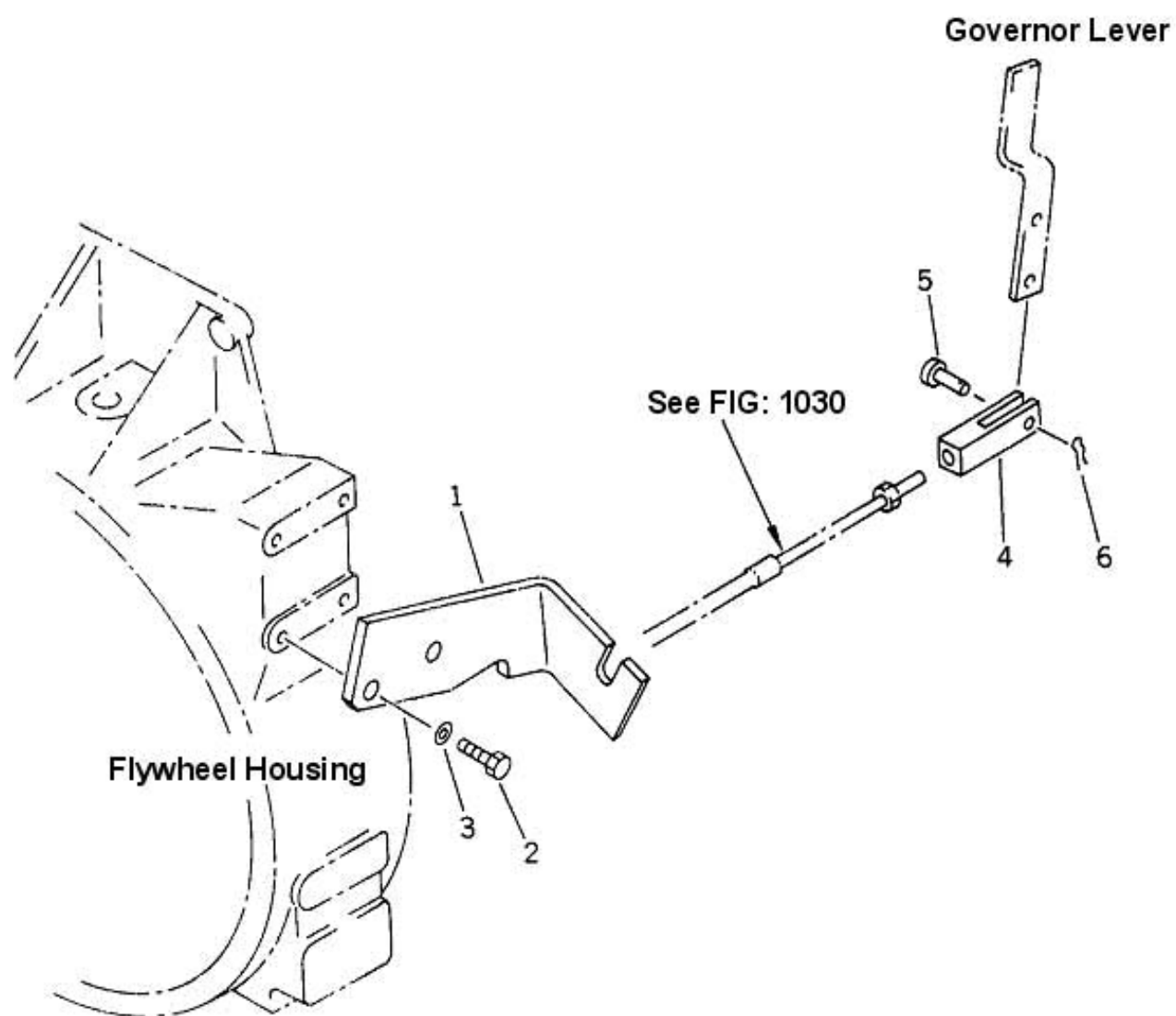
FIG. 1030 FUEL CONTROL LEVER



FUEL CONTROL LEVER**FIG NO.1030**

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

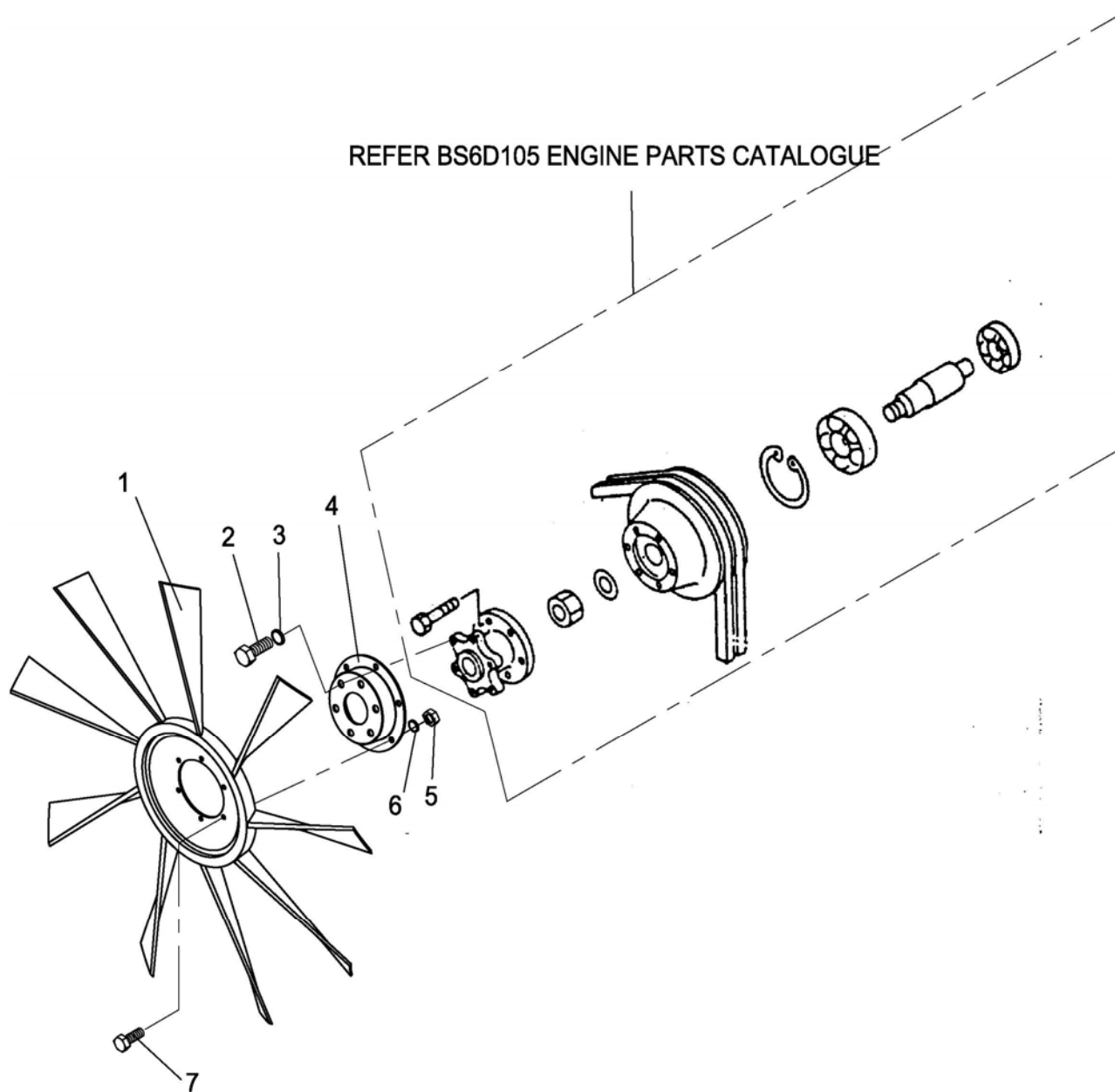


FUEL CONTROL LINKAGE

FIG NO.1040

[illegible]

FIG: 1050 FAN ASSEMBLY

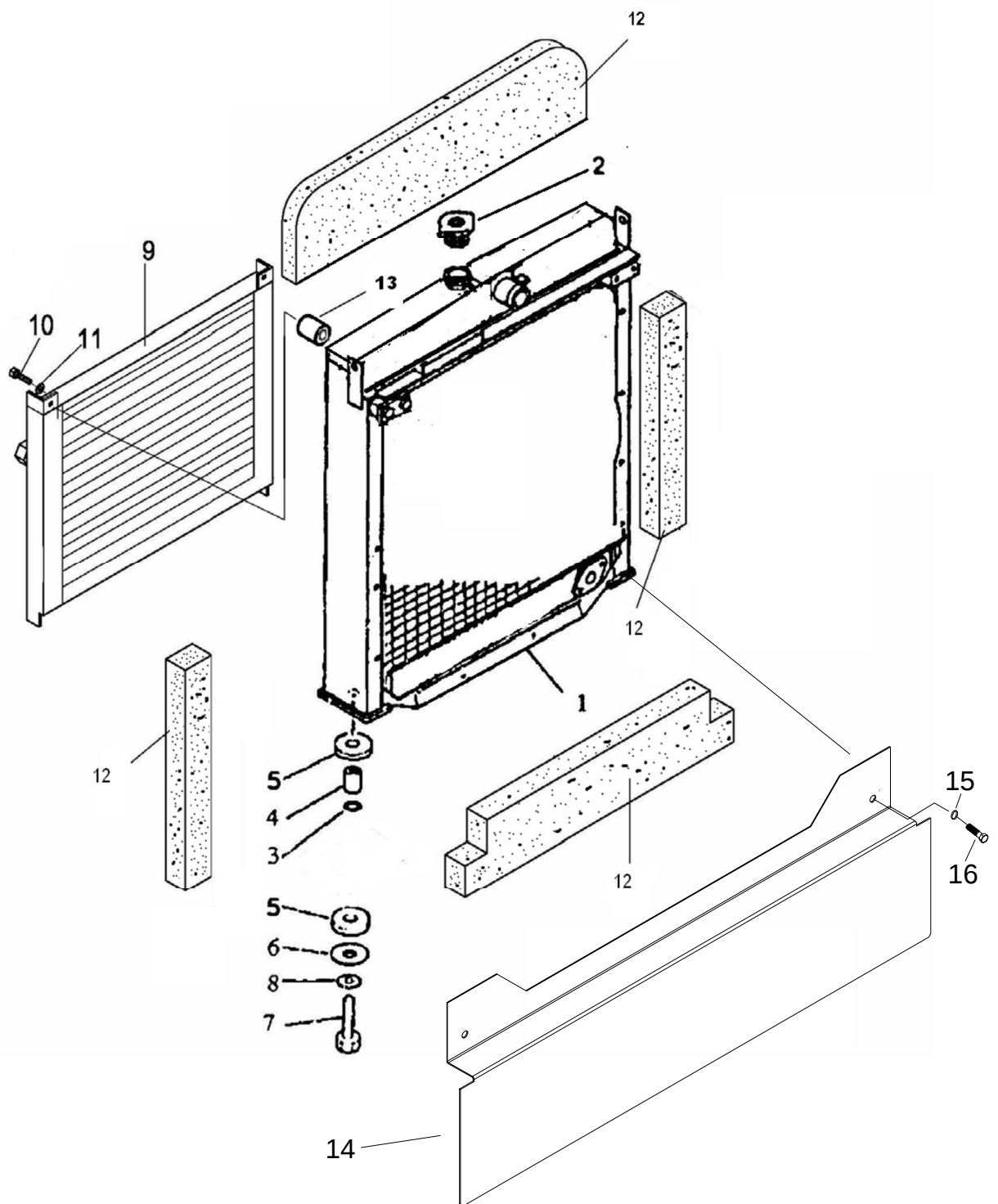


FAN ASSEMBLY

FIG NO.1050

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	

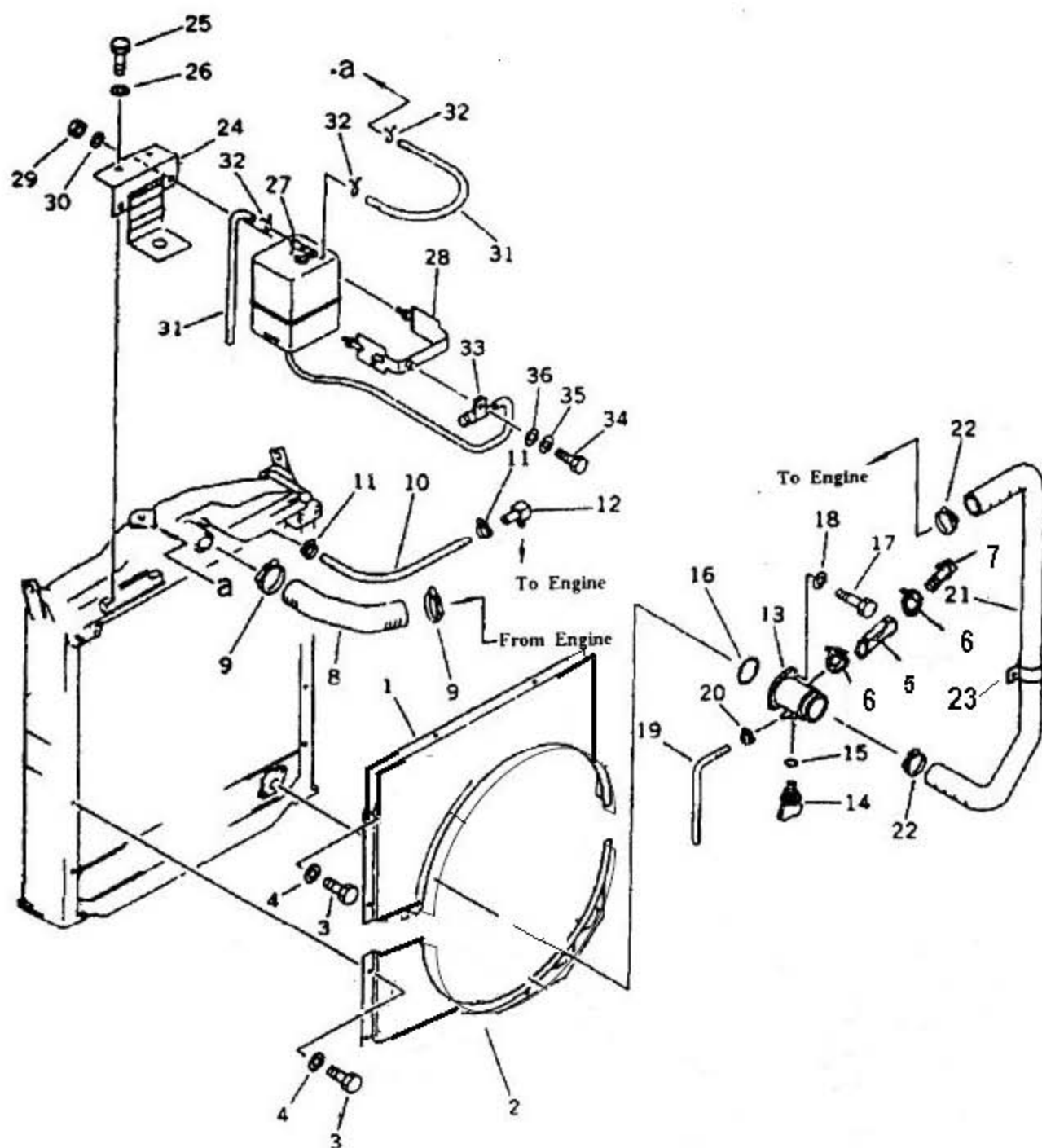
FIG. 1060 RADIATOR AND OIL COOLER



RADIATOR AND OIL COOLER
FIG NO.1060

ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 EC 11022	RADIATOR CORE	1	
02	155 EC 91101	CAP ASSY	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	4	
09	156 EC 03011	OIL COOLER ASSY	1	
10	CFS01 30845	SCREW	4	
11	CFW05 08023	WASHER	4	
12	156 EH 12146	SEALING FOAM	1	
13	156 EC 11144	SPACER	4	
14	156 EH 13694	PLATE	1	
15	CFS01 21030	SCREW	2	
16	CFW05 10032	WASHER	2	

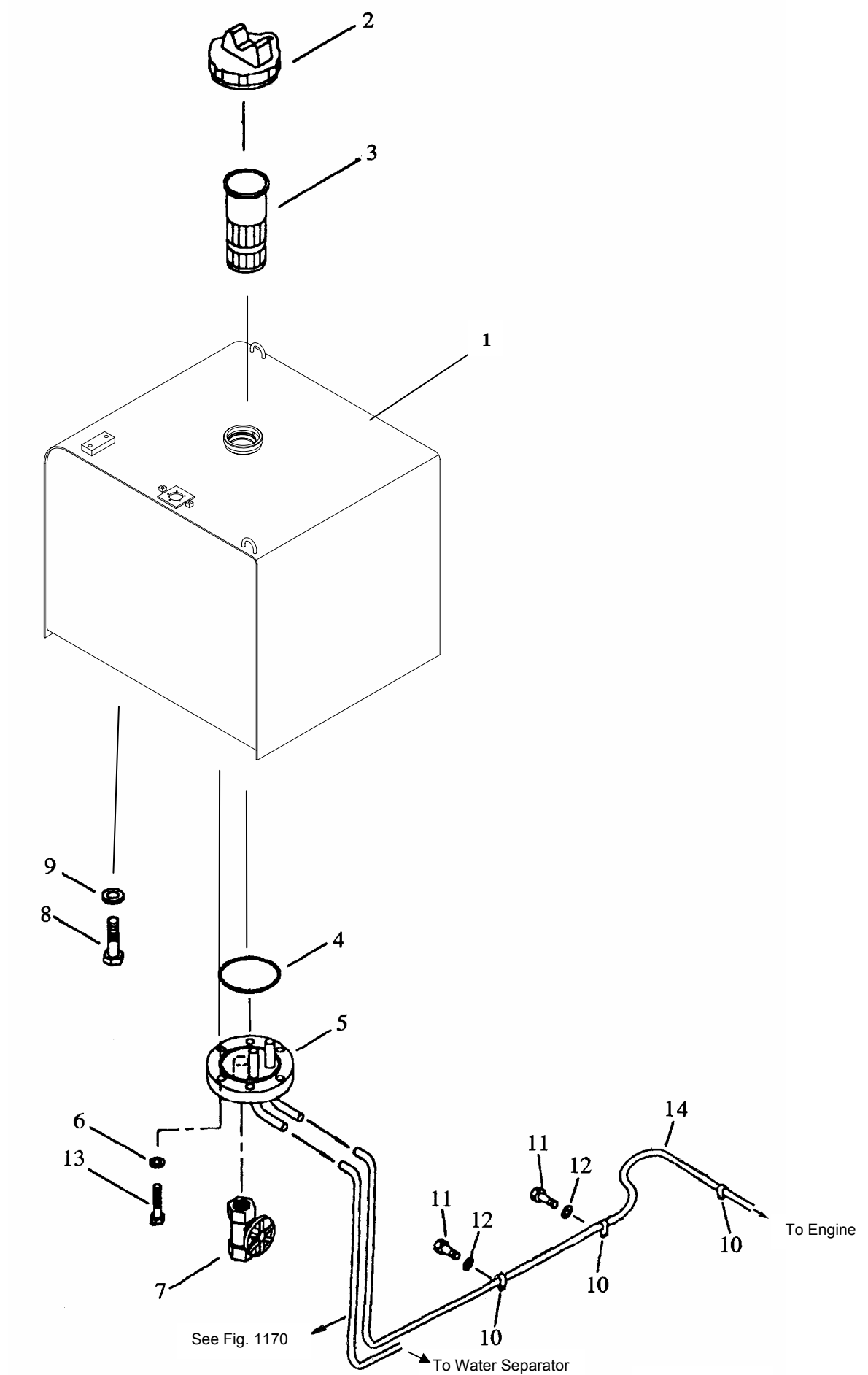
FIG: 1070 RADIATOR GUARD AND PIPING



RADIATOR GUARD AND PIPING
FIG NO.1070

ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 EC 04024	SHROUD UPPER	1	
02	156 EC 11169	SHROUD LOWER	1	
03	CFS01 30816	SCREW	12	
04	CFW05 08023	WASHER	12	
05	155 EC 92082	HOSE	1	
06	CCC01 02507	CLAMP	2	
07	155 EC 12078	PLUG	1	
08	155 EC 61804	HOSE	1	
09	CCC01 09020	CLAMP	2	
10	CHR01 00305	HOSE	1	
11	CCC01 02006	CLAMP	2	
12	155 EC 02066	ELBOW	1	
13	155 EC 03021	TUBE	1	
14	155 EC 03005	PLUG	1	
15	CHS01 11007	O RING	1	
16	CHS01 12055	O RING	1	
17	CFS01 30825	SCREW	2	
18	CFW05 08023	WASHER	2	
19	155 EC 61091	HOSE	1	
20	CCC01 00902	CLAMP	1	
21	155 EC 61861	HOSE	1	
22	CCC01 07020	CLAMP	2	
23	155 EC 02033	CLAMP	1	
24	155 EC 02041	BRACKET	1	
25	CFS01 31225	SCREW	2	
26	CFW05 12032	WASHER	2	
27	155 EC 02074	TANK RESERVE	1	
28	155 EC 02058	BAND	1	
29	CFN01 20868	NUT	2	
30	CFW05 08023	WASHER	2	
31	155 EC 61731	HOSE	2	
32	155 EC 11721	CLIP	3	
33	CCC06 21814	CLIP	1	
34	CFS01 30816	SCREW	1	
35	CFW05 08023	WASHER	1	
36	CFW05 10032	WASHER	1	

FIG. 1080 FUEL TANK

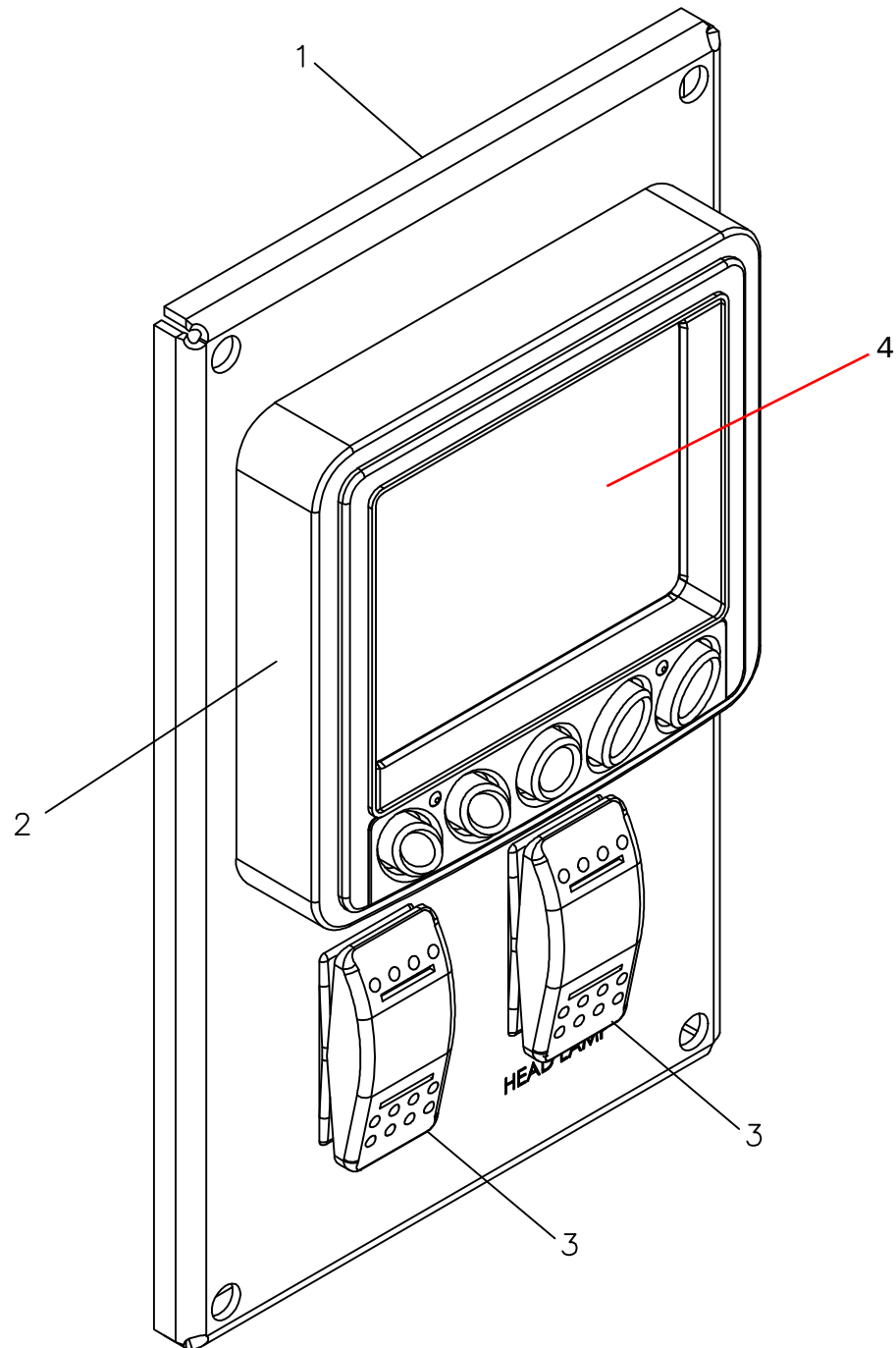


FUEL TANK

FIG NO.1080

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

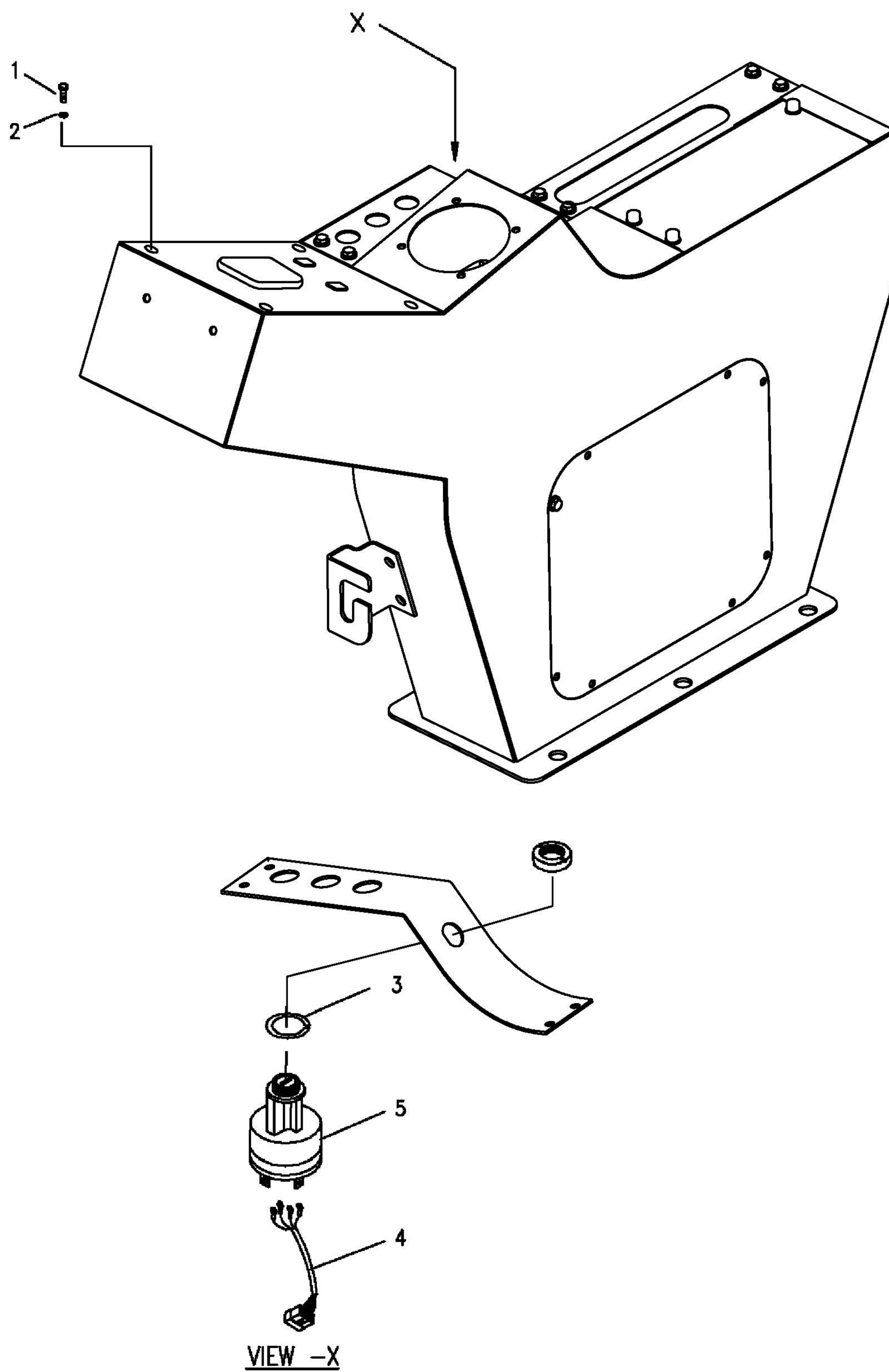


MONITOR PANEL AND RELATED PARTS

FIG NO.1095

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FIG 1105 INSTRUMENT PANEL (1/2)

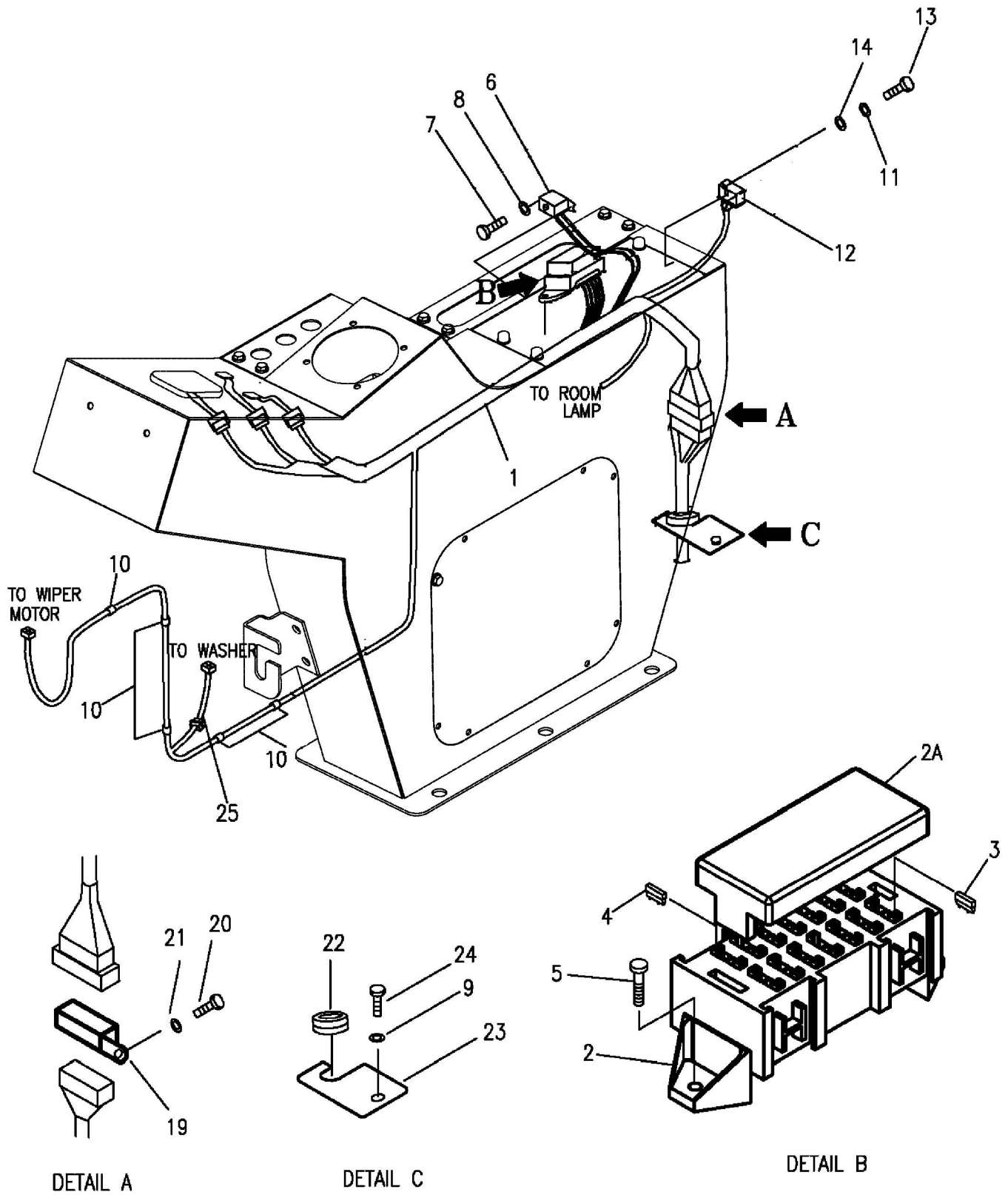


INSTRUMENT PANEL (1/2)

FIG NO.1105

ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	CFS15 10625	SCREW	4	
02	CFW03 10616	WASHER	4	
03	CGR05 01610	CAP	2	
04	155 EW 02207	WIRE HARNESS, KEY SW	1	
05	CEK01 20000	KEY SWITCH	1	

FIG 1115 INSTRUMENT PANEL (2/2)



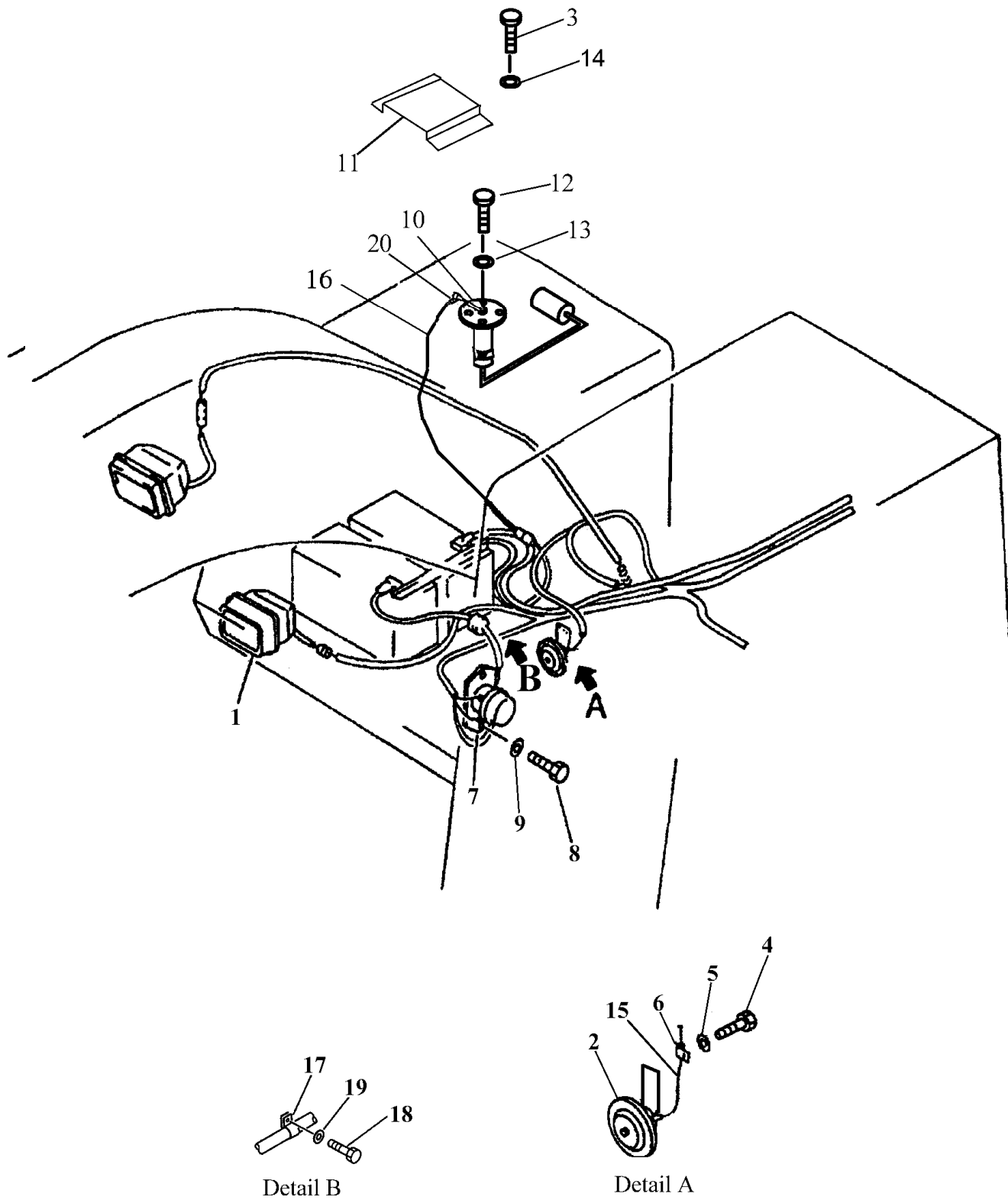
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INSTRUMENT PANEL (2/2)

FIG NO.1115

ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
1	156 EW 02175	WIRE HARNESS, PANEL	1	
2	125 EG 91753	. FUSE BOX	1	
2A	125 EG 91761	. FUSE BOX COVER	1	
3	CEF02 00150	. FUSE 15A	7	
4	CEF02 00200	. FUSE 20A	2	
5	CFS15 10616	SCREW	2	
6	155 EG 91931	BUZZER	1	
7	CFS15 10412	SCREW	2	
8	CFW02 10408	WASHER	2	
9	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	
25	155 EG 02093	WIRE HARNESS	1	

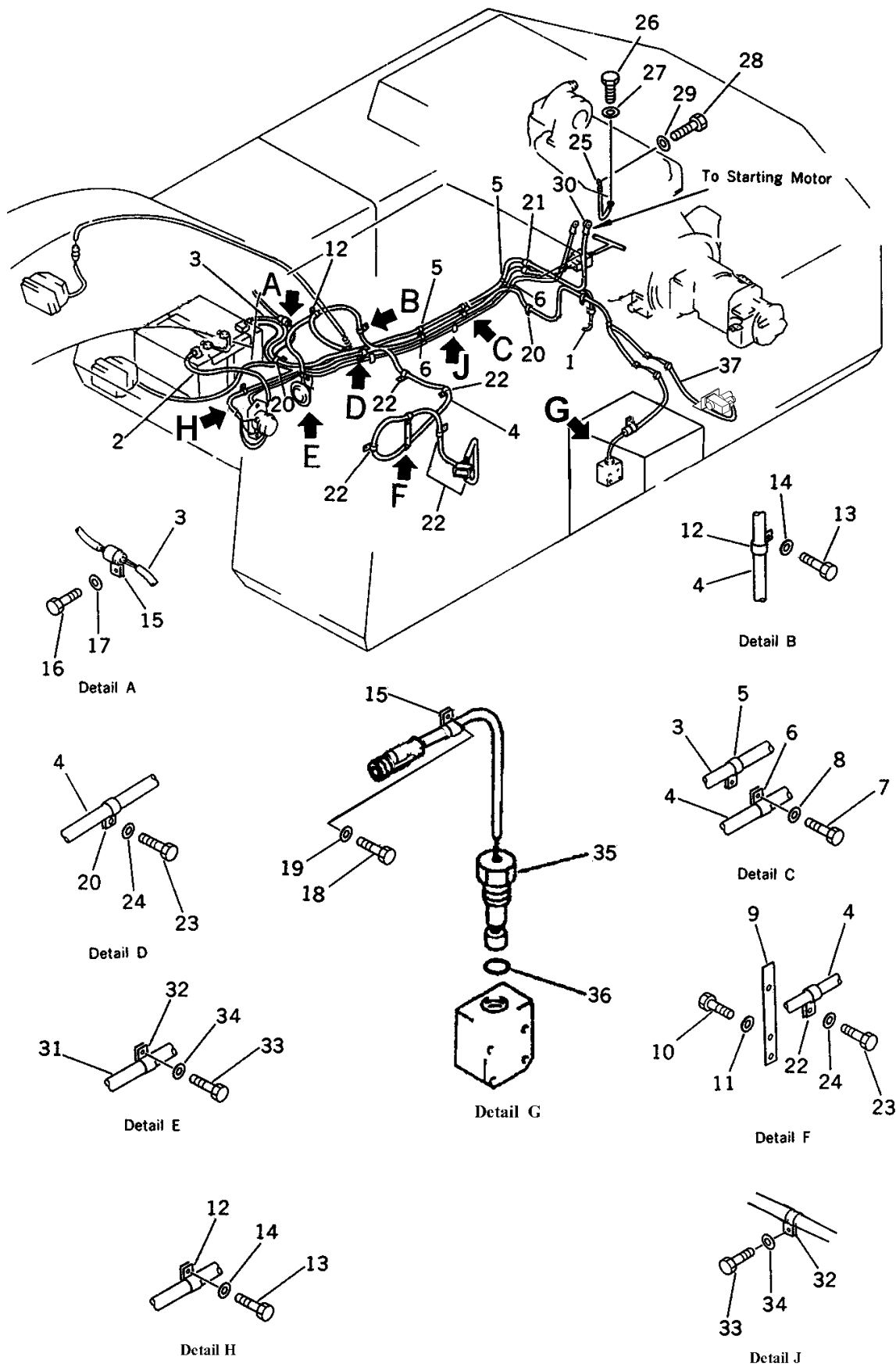
FIG: 1120 ELECTRICAL SYSTEM (RELATED PARTS)



ELECTRICAL SYSTEM (RELATED PARTS)**FIG NO.1120**

ITEM	PART NUMBER		NAME OF PART	QTY	REMARKS
01	CEL11	12412	HEAD LAMP	1	P45t, 75/70
	CEL25	12470	. LAMP, HALOGEN	1	
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	CES05	20000	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 EG	02214	WIRE HARNESS	1	
16	155 EW	02136	WIRE HARNESS	1	
17	CCC06	01214	CLIP	1	
18	CFS01	31225	SCREW	1	
19	CFW05	12032	WASHER	1	
20	155 CC	02419	CLIP	1	

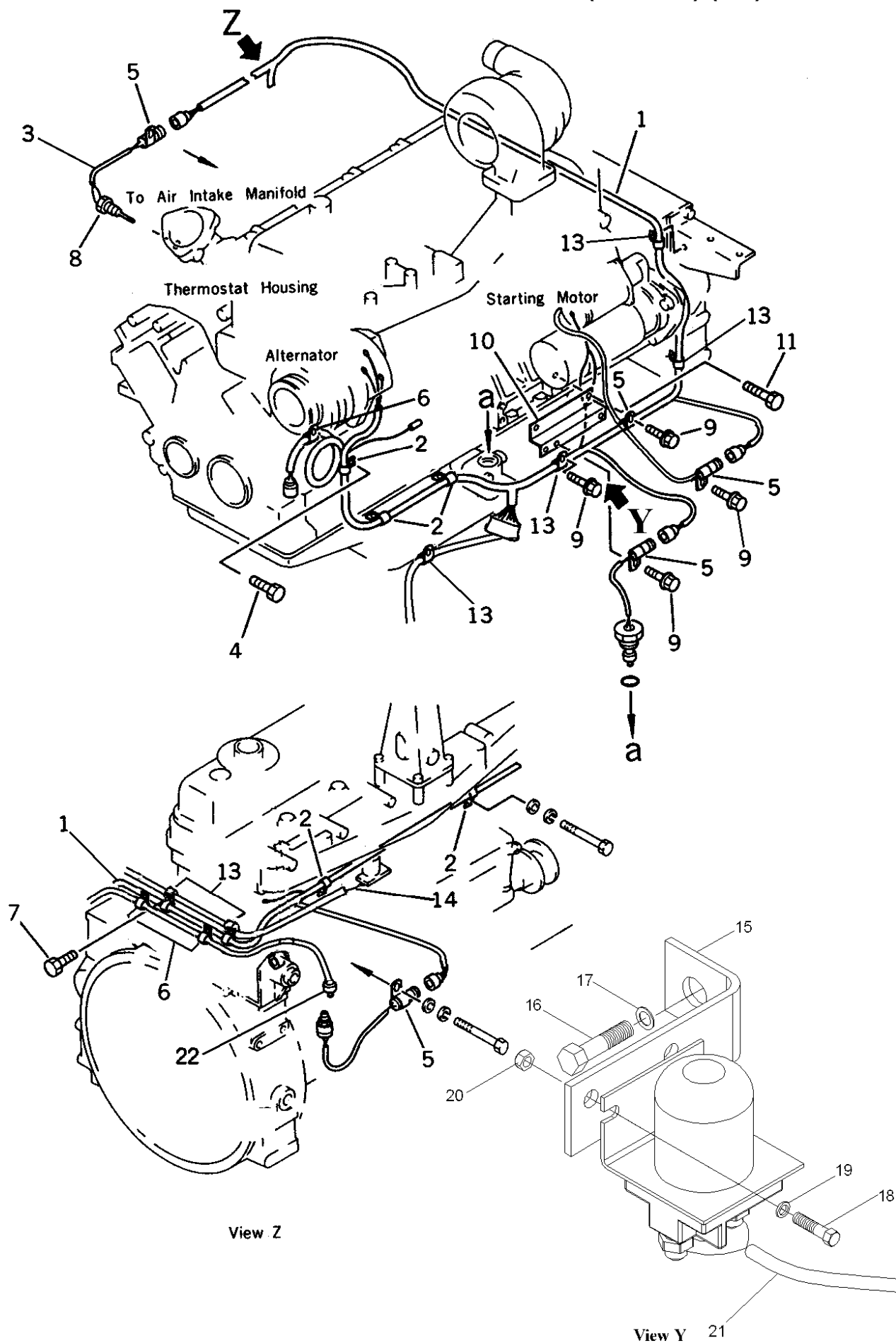
FIG: 1130 ELECTRICAL SYSTEM (WIRING) (1/2)



ELECTRICAL SYSTEM (WIRING)(1/2)**FIG NO.1130**

ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	175 EG 02047	WIRE HARNESS	1	
02	CEW03 42604	CABLE ASSY	1	
03	CEW03 41630	CABLE ASSY	1	
04	156 EW 02012	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 42630	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 02053	WIRE HARNESS	1	

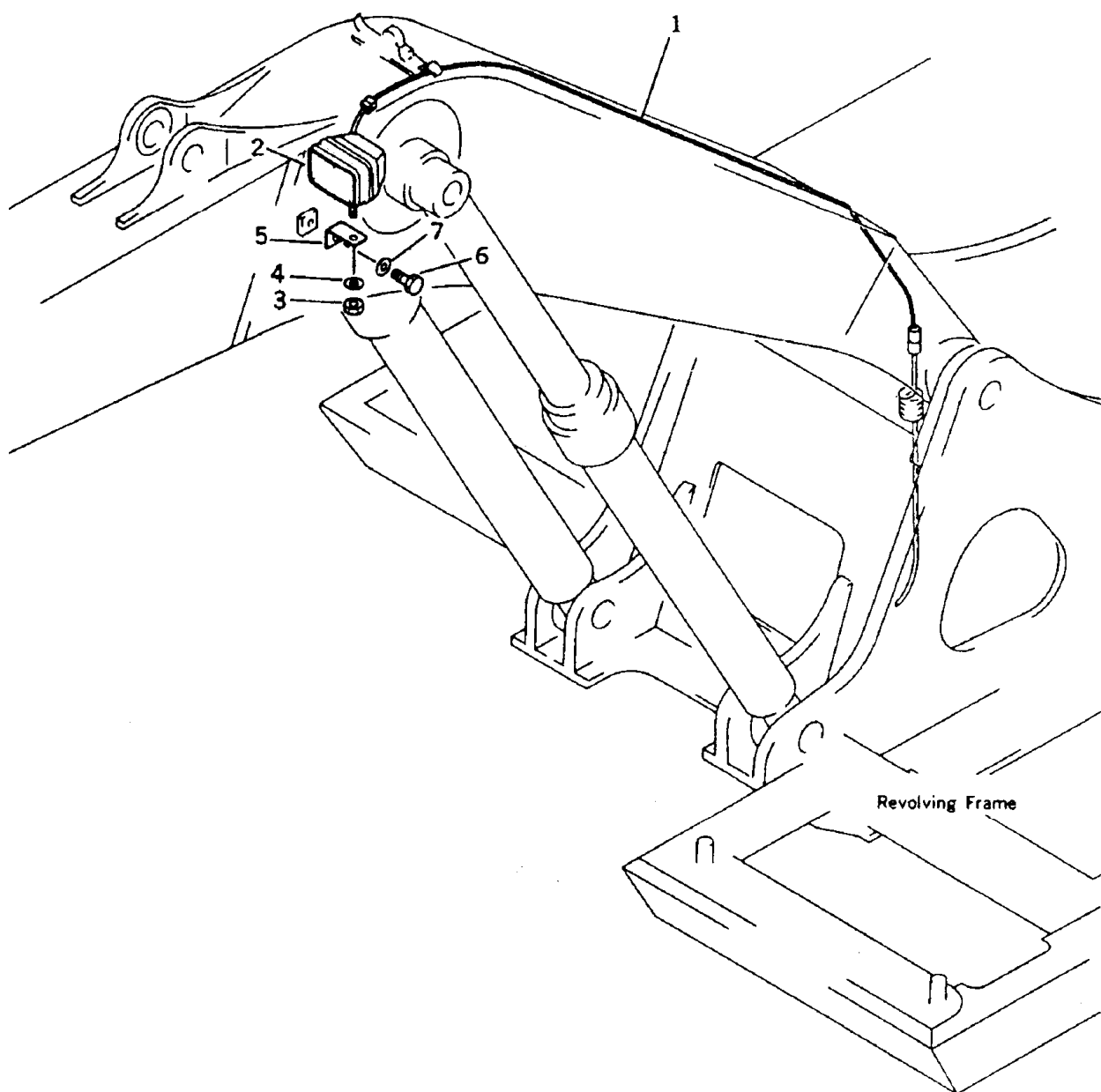
FIG: 1140 ELECTRICAL SYSTEM (WIRING) (2/2)



ELECTRICAL SYSTEM (WIRING)(2/2)**FIG NO.1140**

ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 EW 02029	WIRE HARNESS	1	
02	CCC06 01814	CLIP	7	
03	156 EG 02091	WIRE HARNESS	1	
04	ZFB46 11020	BOLT	1	
05	CCC12 01711	CLIP	4	
06	CCC06 01214	CLIP	3	
07	ZFB46 11220	BOLT	2	
08	125 EG 81441	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 02037	WIRE HARNESS	1	
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	155 EW 02096	WIRE HARNESS	1	
22	640000200204	ELBOW	1	

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

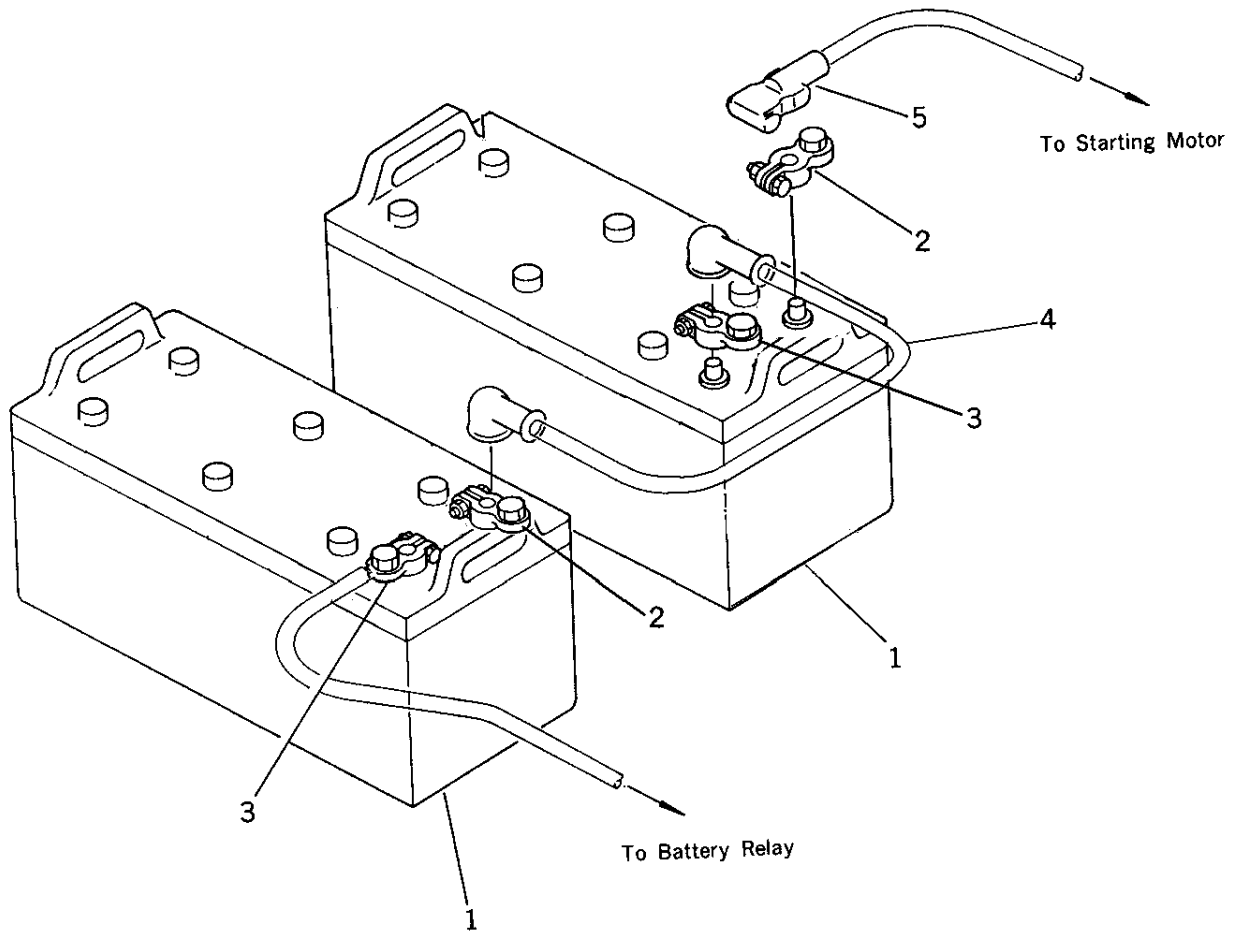


ELECTRICAL SYSTEM (WIRING) (ATTACHMENT SIDE)

FIG NO.1150

ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	155 EG 02206	CABLE ASSY	1	P45t, 75/7
02	CEL11 12412	WORK LAMP	1	
	CEL25 12470	. LAMP, HALOGEN	1	
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

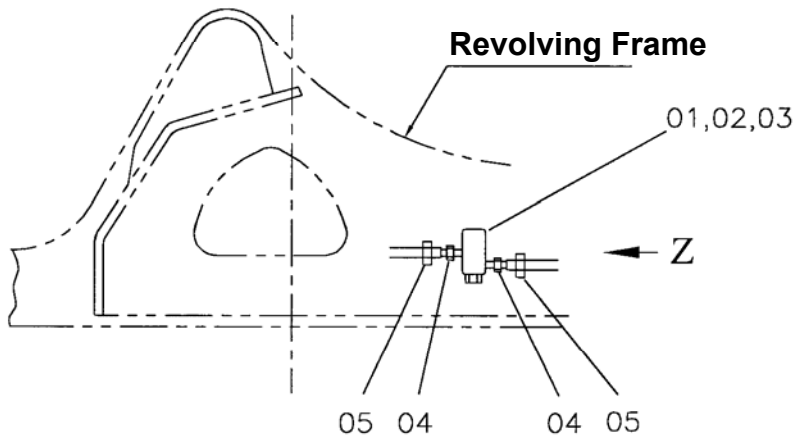
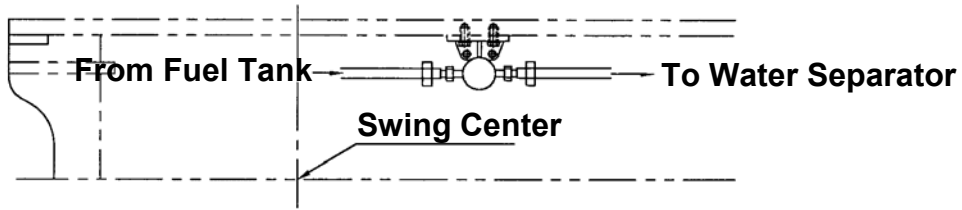


BATTERY

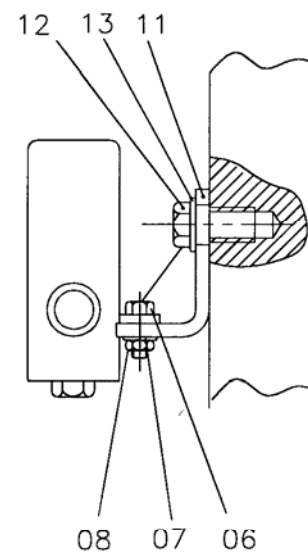
FIG NO.1160

ITEM	PART NUMBER		NAME OF PART	QTY	REMARKS
1	CEB01	11120	BATTERY	2	
2	CET04	01175	TERMINAL +VE	2	
3	CET04	02160	TERMINAL -VE	2	
4	CEW03	42603	CABLE ASSY	1	
5	CEC03	22511	CAP	4	

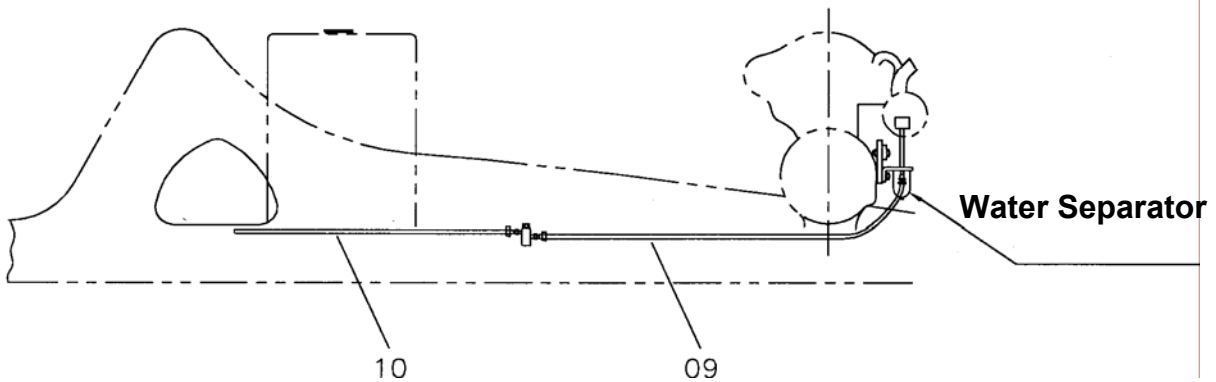
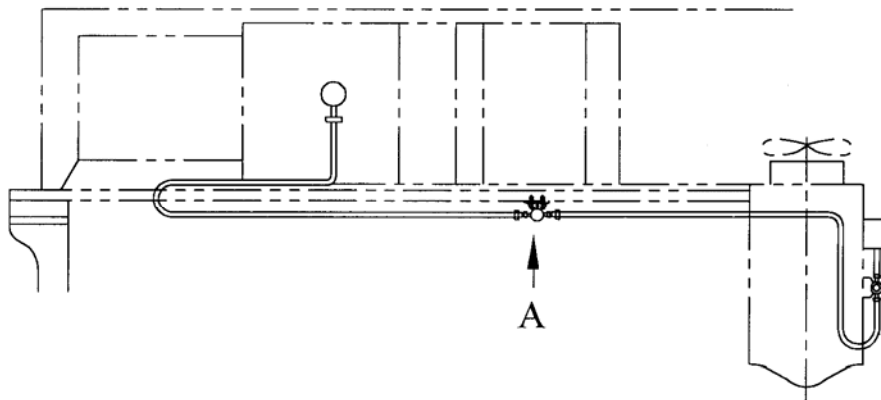
FIG: 1170 FUEL STRAINER



View A



View Z



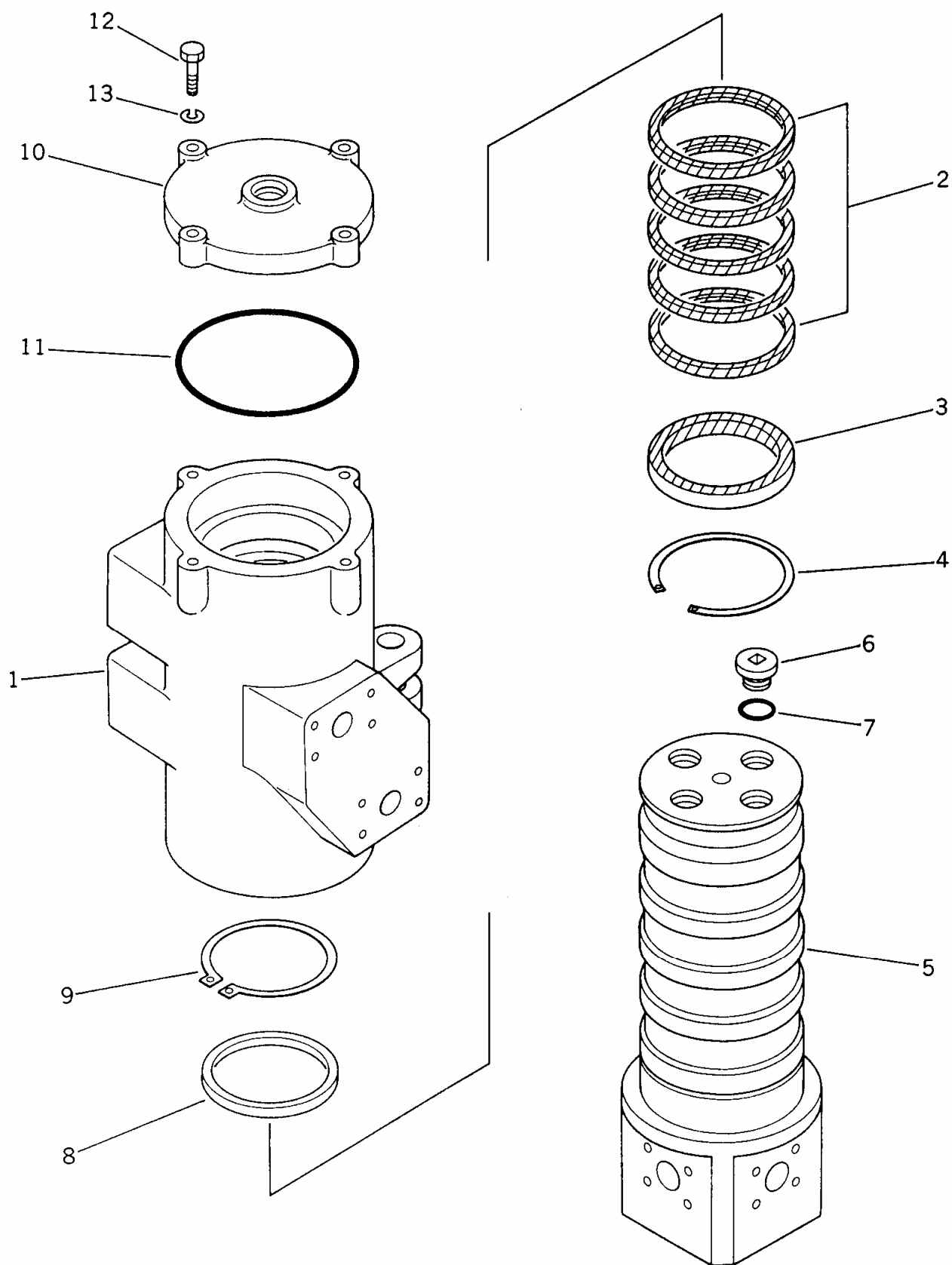
FUEL STRAINER**FIG NO.1170**

ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
	116 FLB 0034	FUEL STRANER ASSY	1	
01	520200030001	. CASE STRAINER	1	
02	125 FL 02002	. STRAINER	1	
03	CHS01 13040	. O RING	1	
04	720203010000	END FITTING	2	
05	CCC01 02006	CLAMP	2	
06	CFS01 30825	SCREW	2	
07	CFW01 10825	WASHER SPRING	2	
08	CFN01 10868	NUT	2	
09	155 FL 91355	HOSE	1	
10	155 FL 91347	HOSE	1	
11	155 RF 04009	BRACKET	1	
12	CFS0121230	SCREW	2	
13	CFW0111236	WASHER SPRING	2	

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II. TRAVEL AND FINAL DRIVE

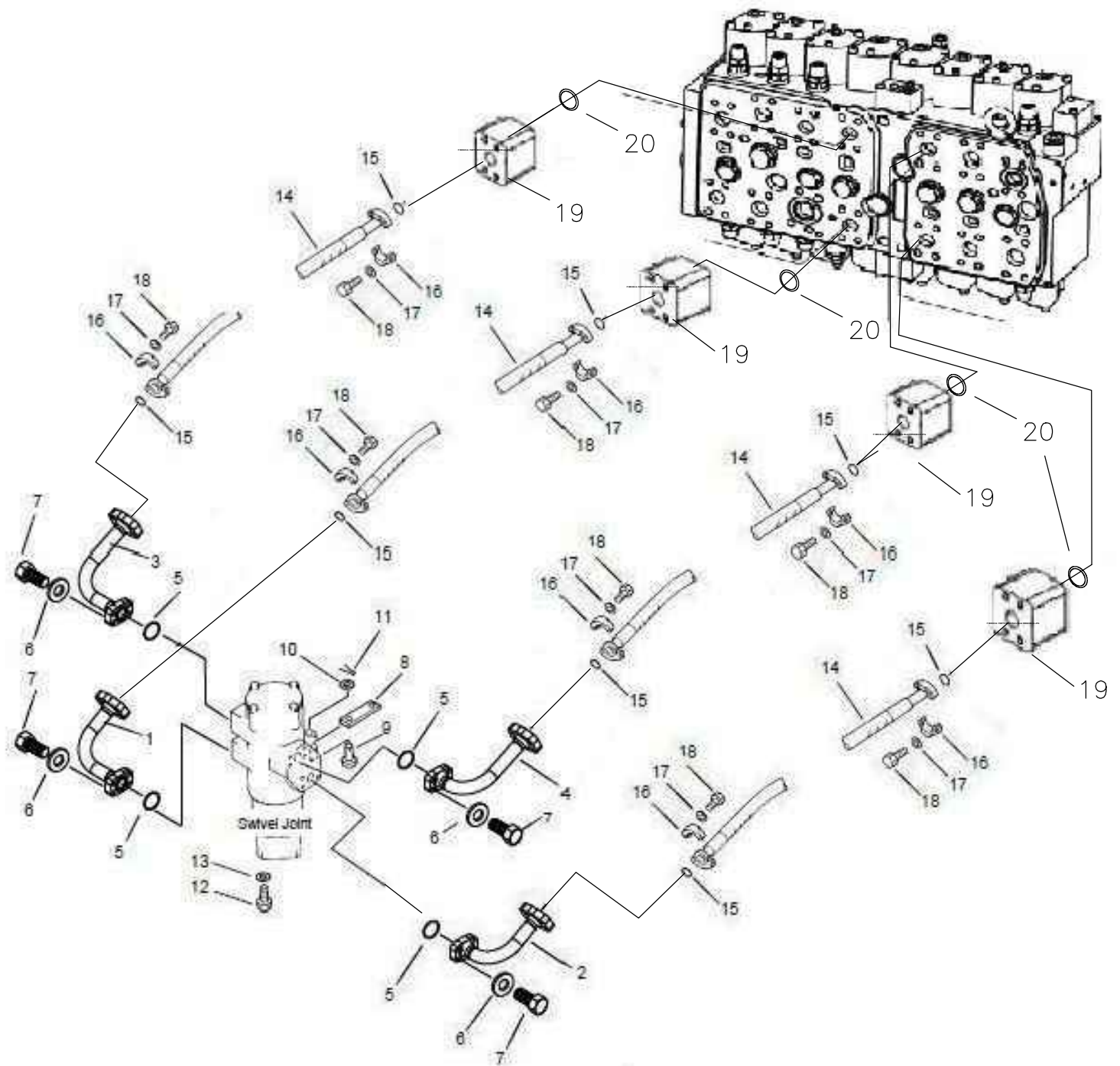
FIG: 2080 SWIVEL JOINT



SWIVEL JOINT
FIG NO.2080

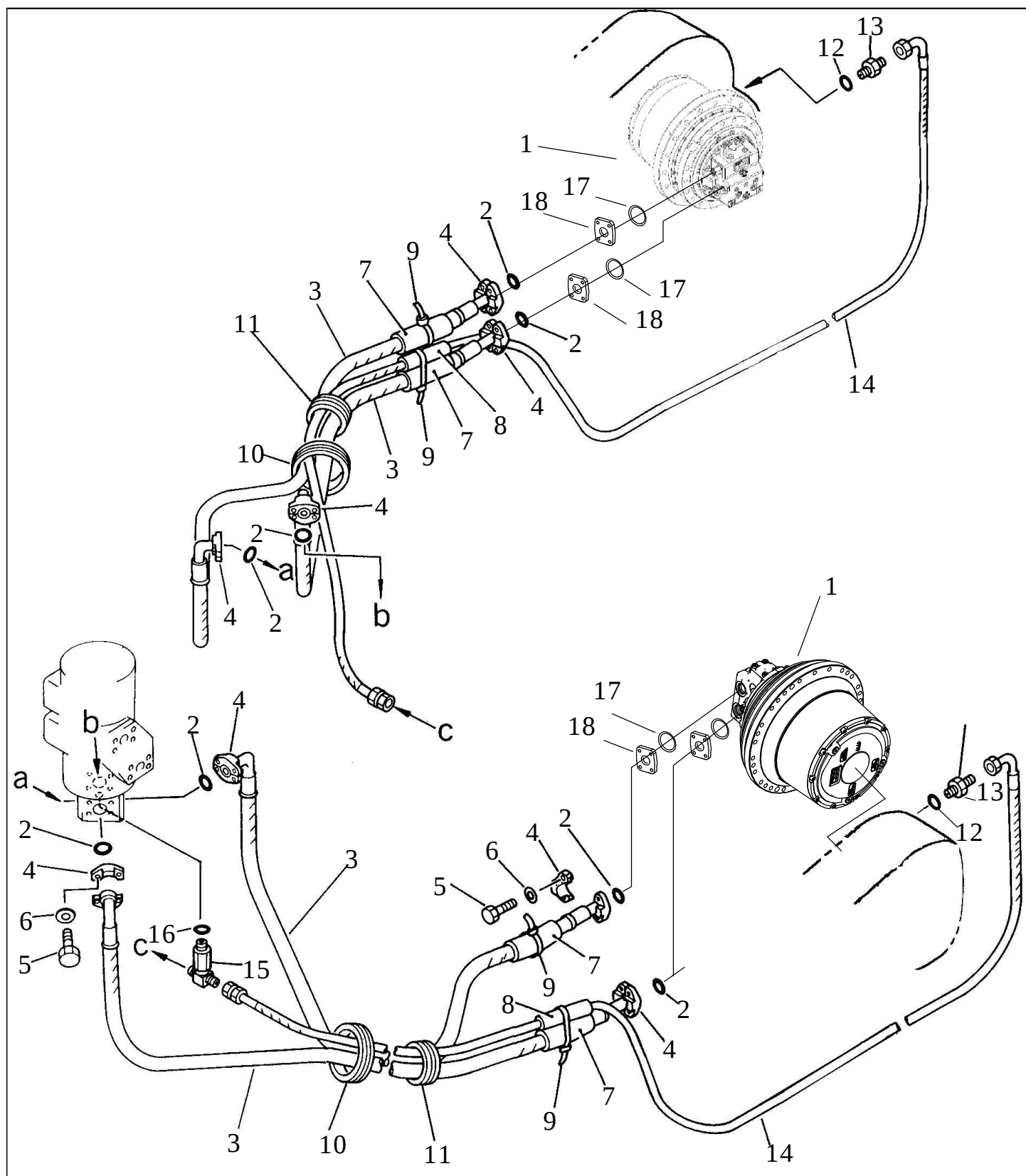
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
	155 HS 01012	SWIVEL JOINT ASSY	1	
01	155 HS 42559	. ROTOR SWIVEL	1	
02	155 HS 62622	. SEAL SLIPPER	5	K4
03	155 HS 92617	. SEAL OIL	1	K4
04	CFL06 10110	. RING SNAP	1	K4
05	155 HS 52579	. SHAFT SWIVEL	1	
06	CPL06 12414	. PLUG	4	
07	CHS03 12434	. O RING	4	K4
08	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)



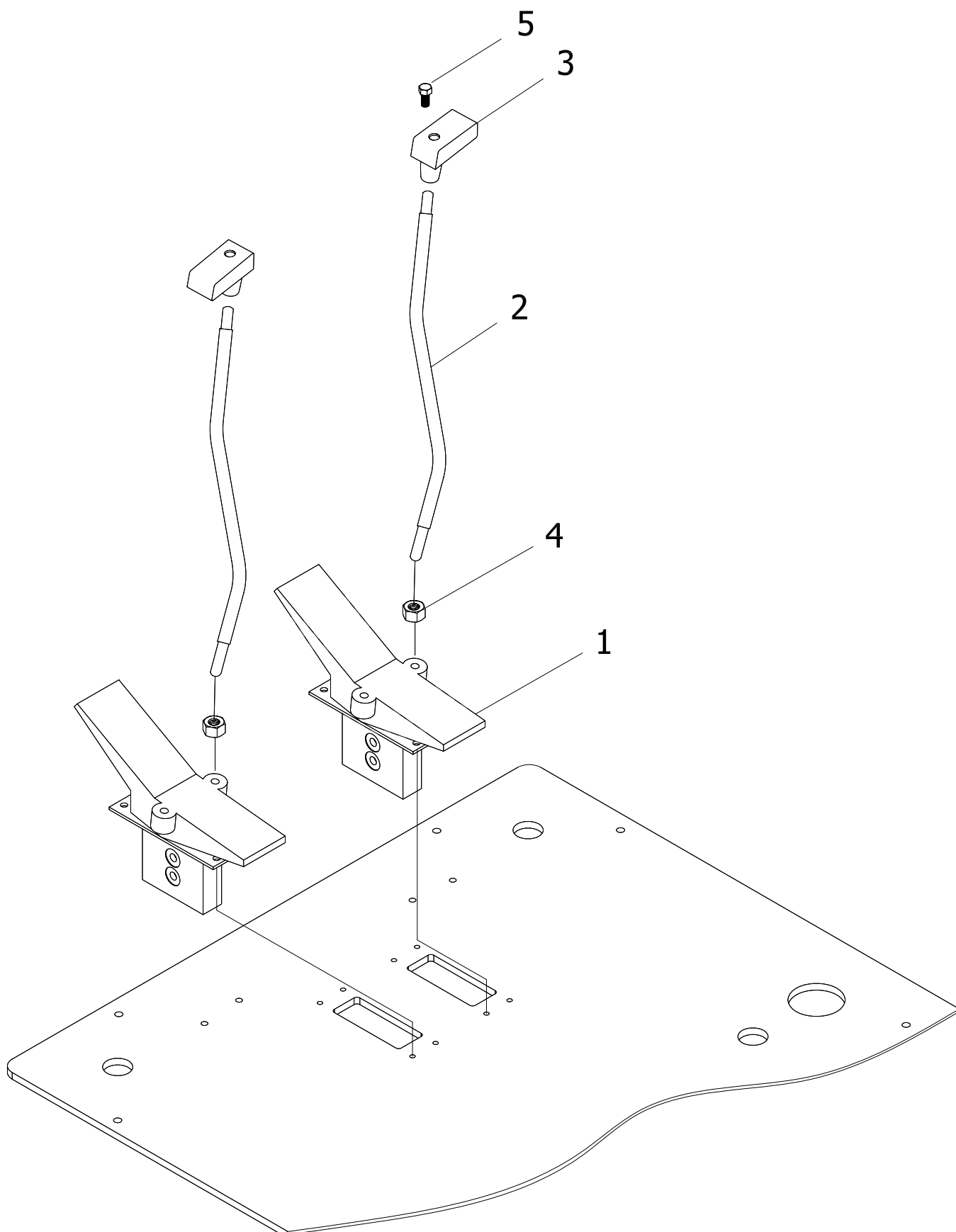
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 PM 02192	TUBE ASSY.	1	
02	156 PM 02208	TUBE ASSY.	1	
03	156 PM 02216	TUBE ASSY.	1	
04	156 PM 02224	TUBE ASSY.	1	
05	155 PH 61927	O-RING	4	
06	CFW05 08023	WASHER	16	
07	CFS01 30830	SCREW	16	
08	155 PH 12005	PLATE	1	
09	155 PH 11958	PIN	1	
10	CFW02 11630	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	CFG03 12039	SPLIT FLANGE	16	
17	CFW05 10032	WASHER	32	
18	CFB27 10830	BOLT	32	
19	781 PH 11173	BLOCK	4	
20	CHS01 13035	O RING	4	

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	CHS03 01823	O RING	2	
13	156 PH 11883	ADAPTOR	2	
14	155 PH 93914	HOSE	2	
15	155 PH 02489	TEE	1	
16	CHS03 12034	O RING	1	
17	156 ZZ 12638	WASHER	4	
18	156 PM12399	ADAPTOR PLATE	4	

FIG: 2110 TRAVEL CONTROL LEVER

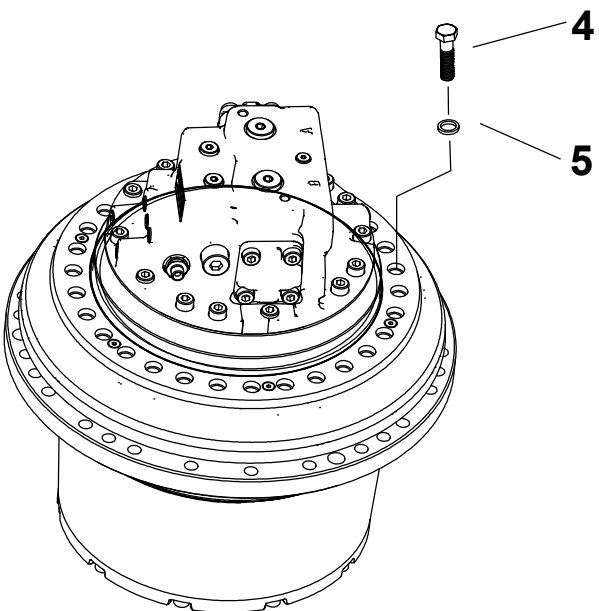
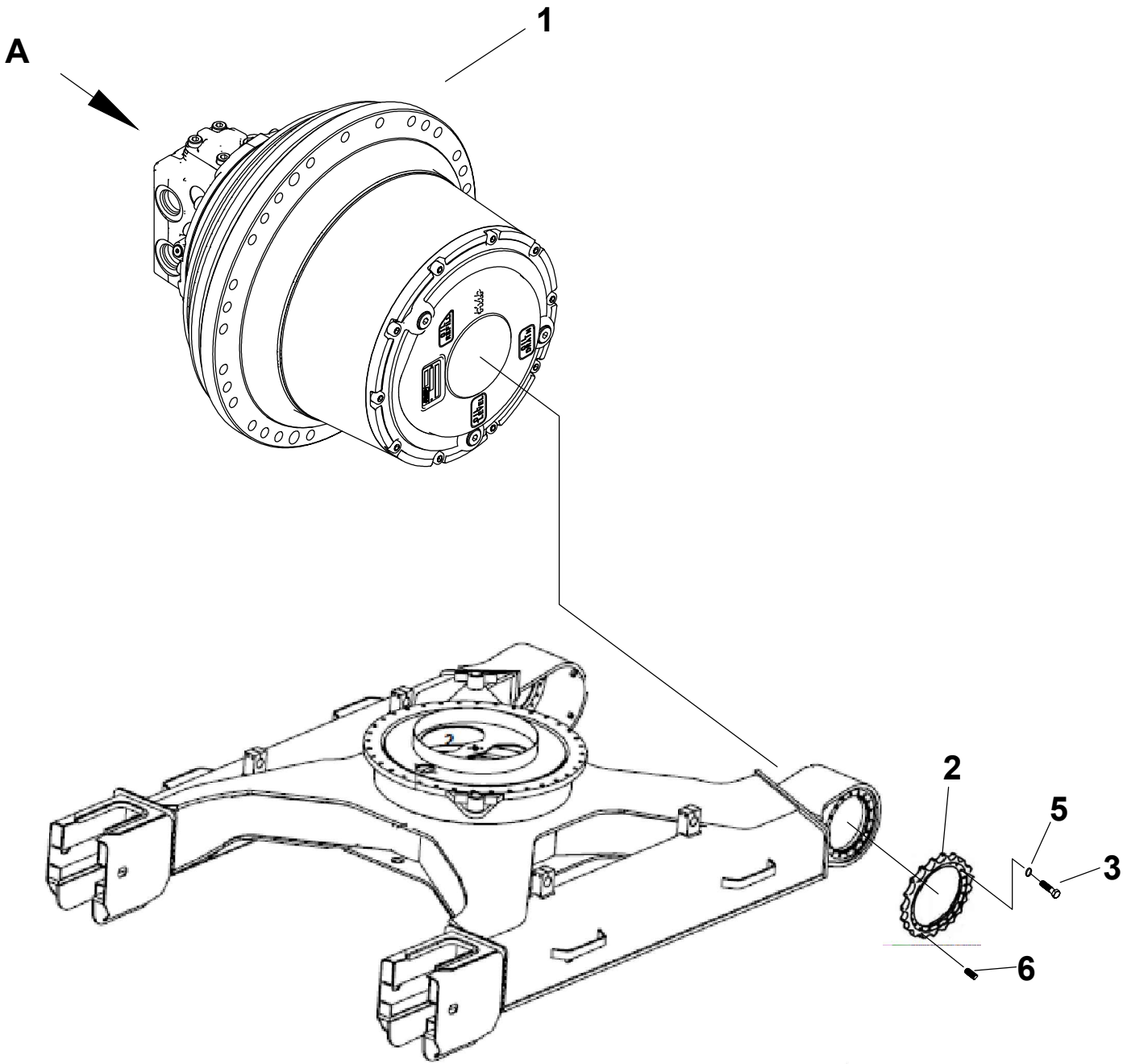


TRAVEL CONTROL LEVER

FIG NO.2110

[illegible]

FIG. 2120 FINAL DRIVE WITH TRAVEL MOTOR



VIEW A

FINAL DRIVE WITH TRAVEL MOTOR

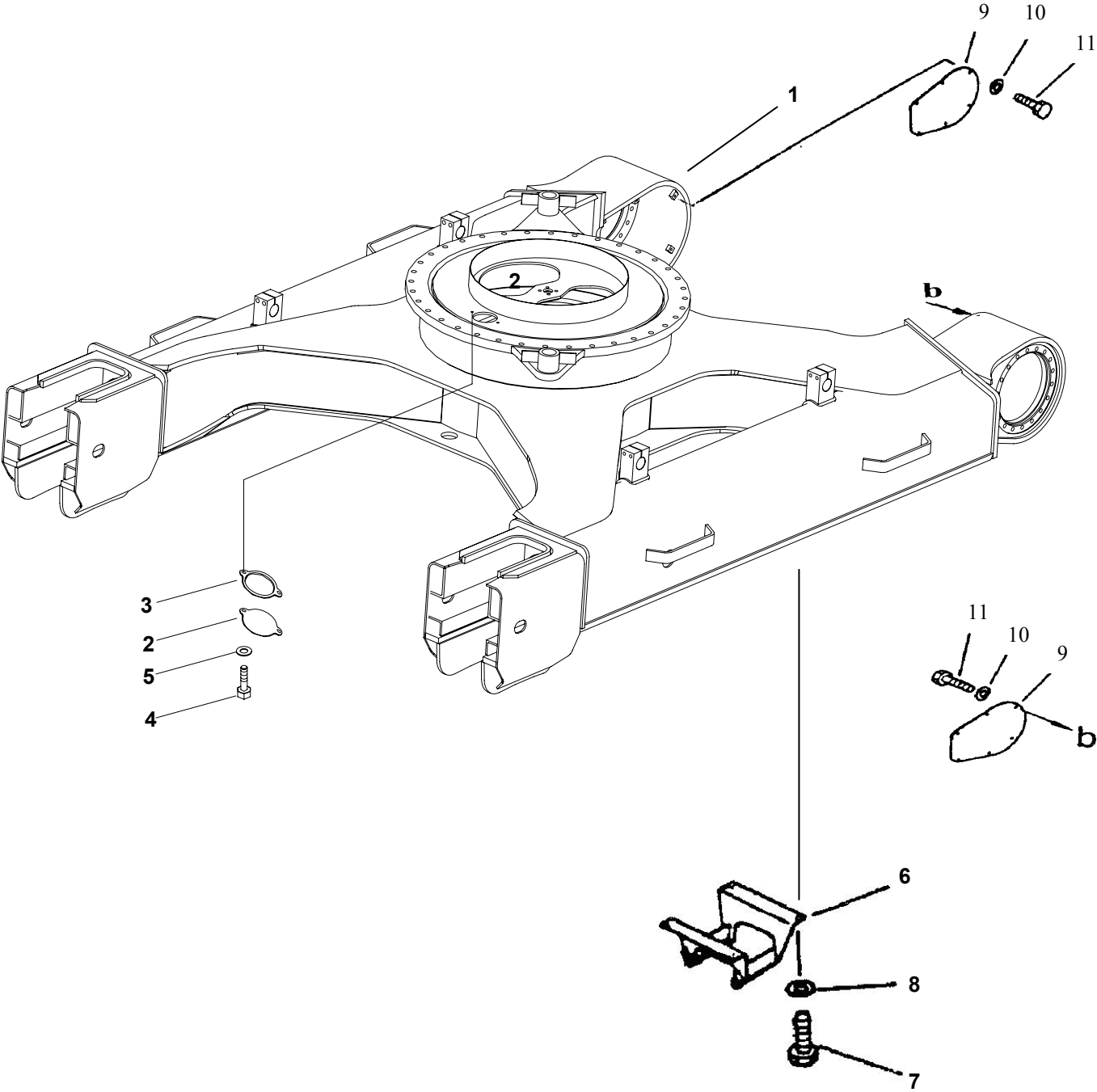
FIG NO.2120

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

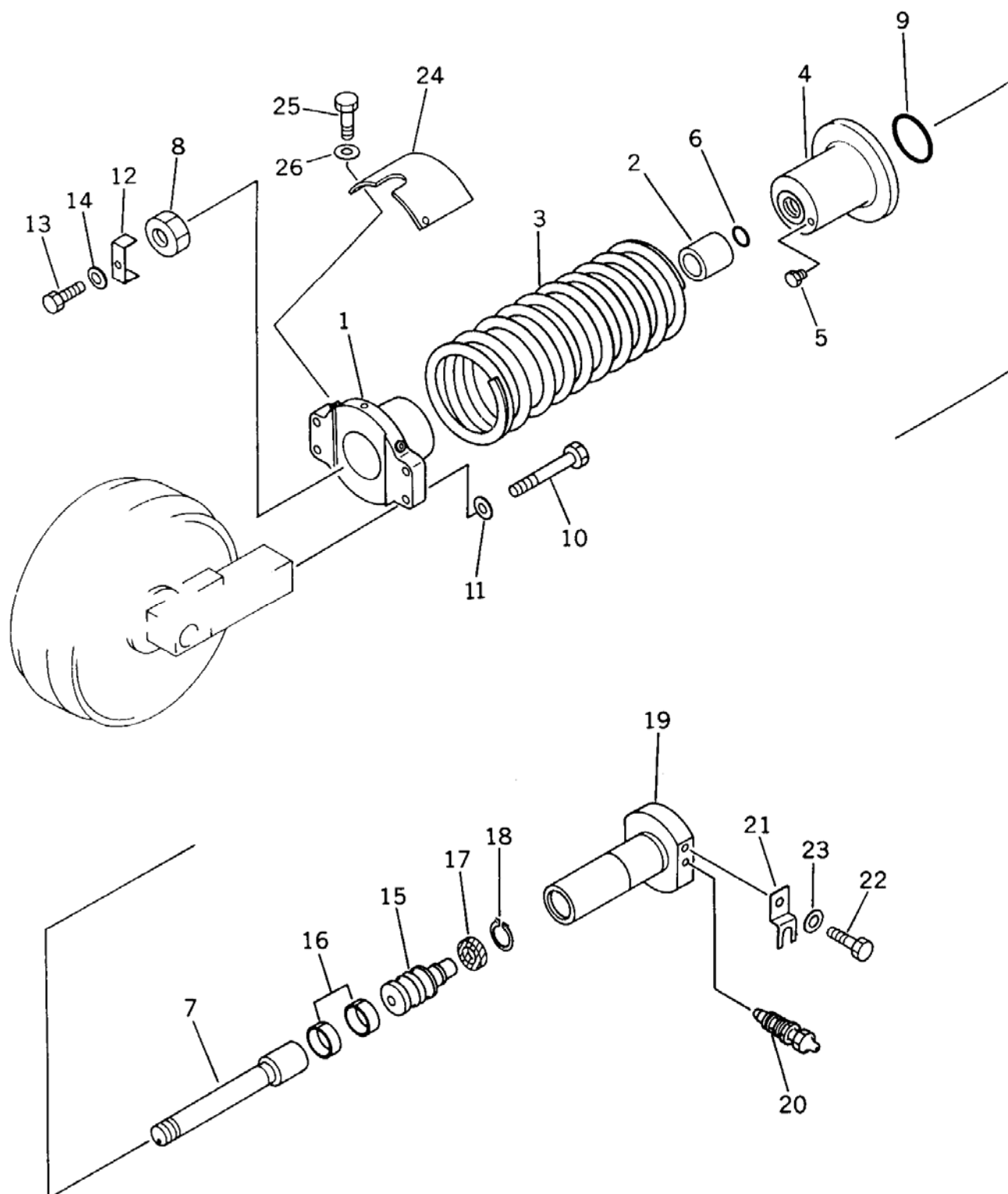


TRACK FRAME

FIG NO.3000

[illegible]

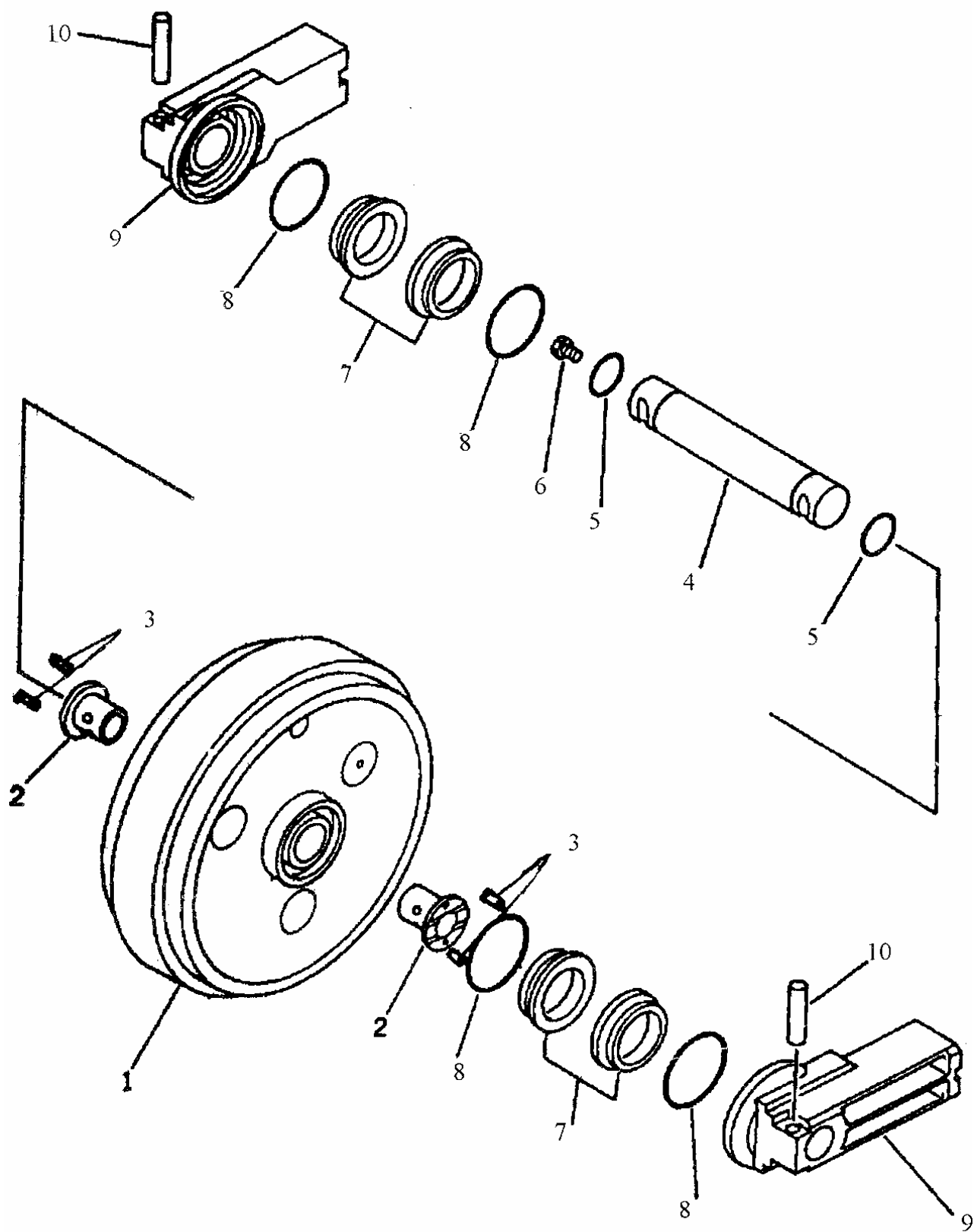
FIG: 3010 RECOIL SPRING



RECOIL SPRING
FIG NO.3010

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	

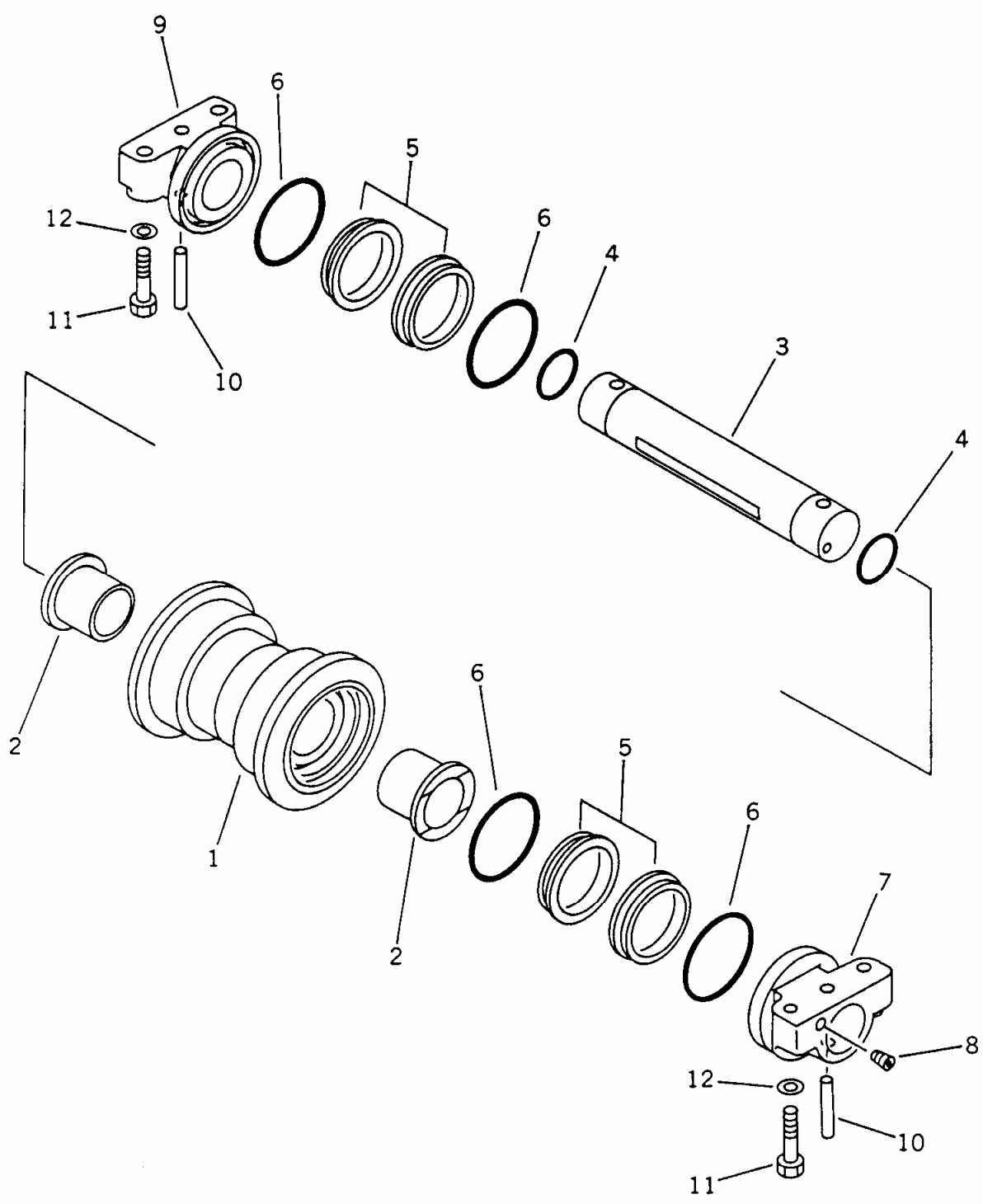
FIG: 3020 FRONT IDLER



FRONT IDLER
FIG NO.3020

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	

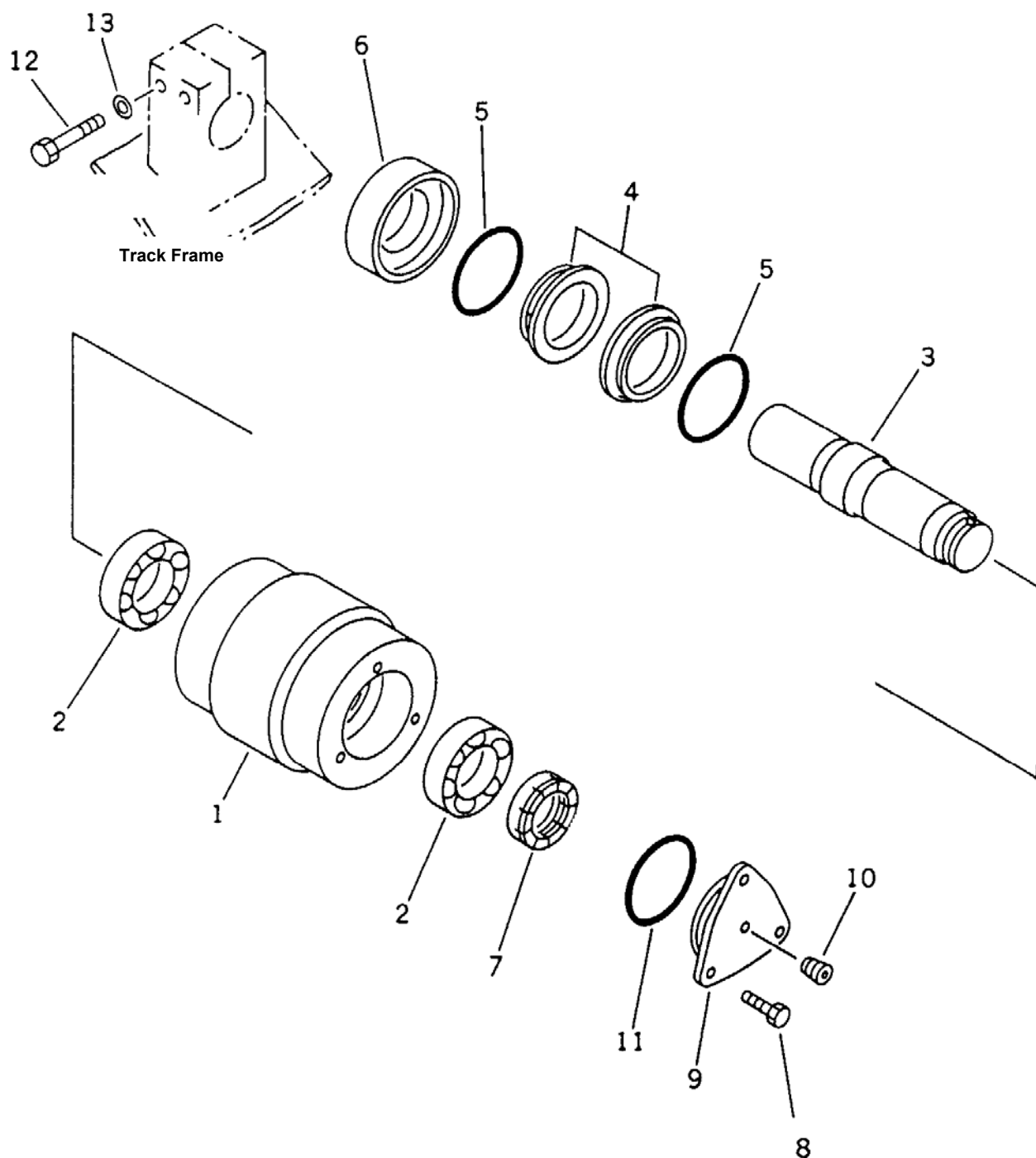
FIG. 3031 TRACK ROLLER



TRACK ROLLER
FIG NO.3031

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	

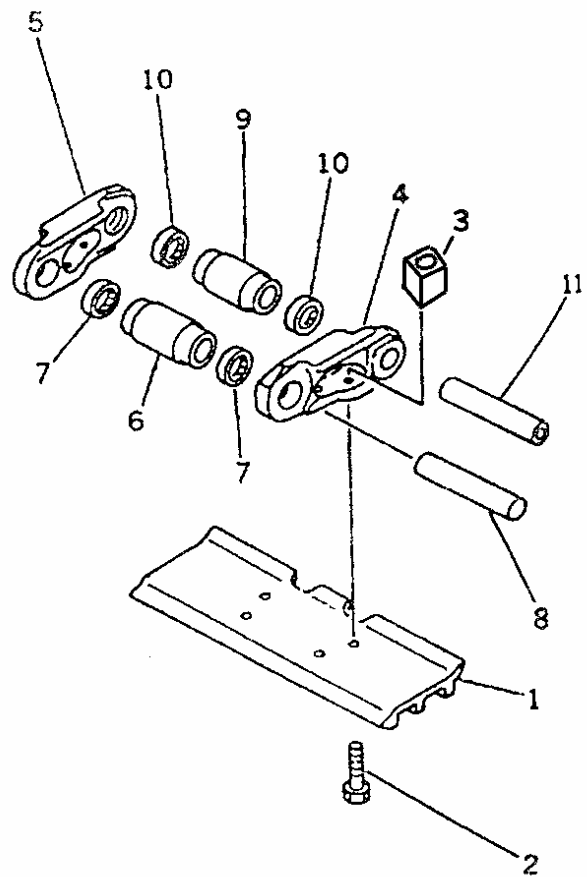
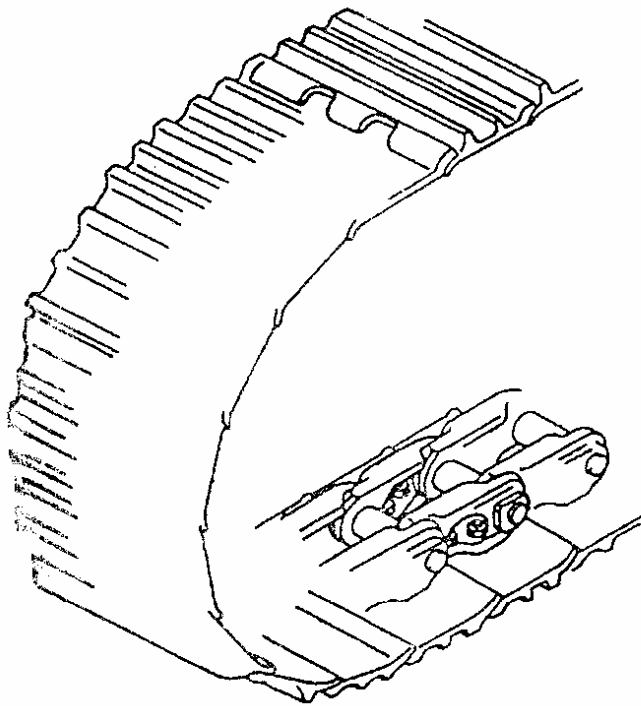
FIG: 3040 CARRIER ROLLER



CARRIER ROLLER**FIG NO.3040**

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



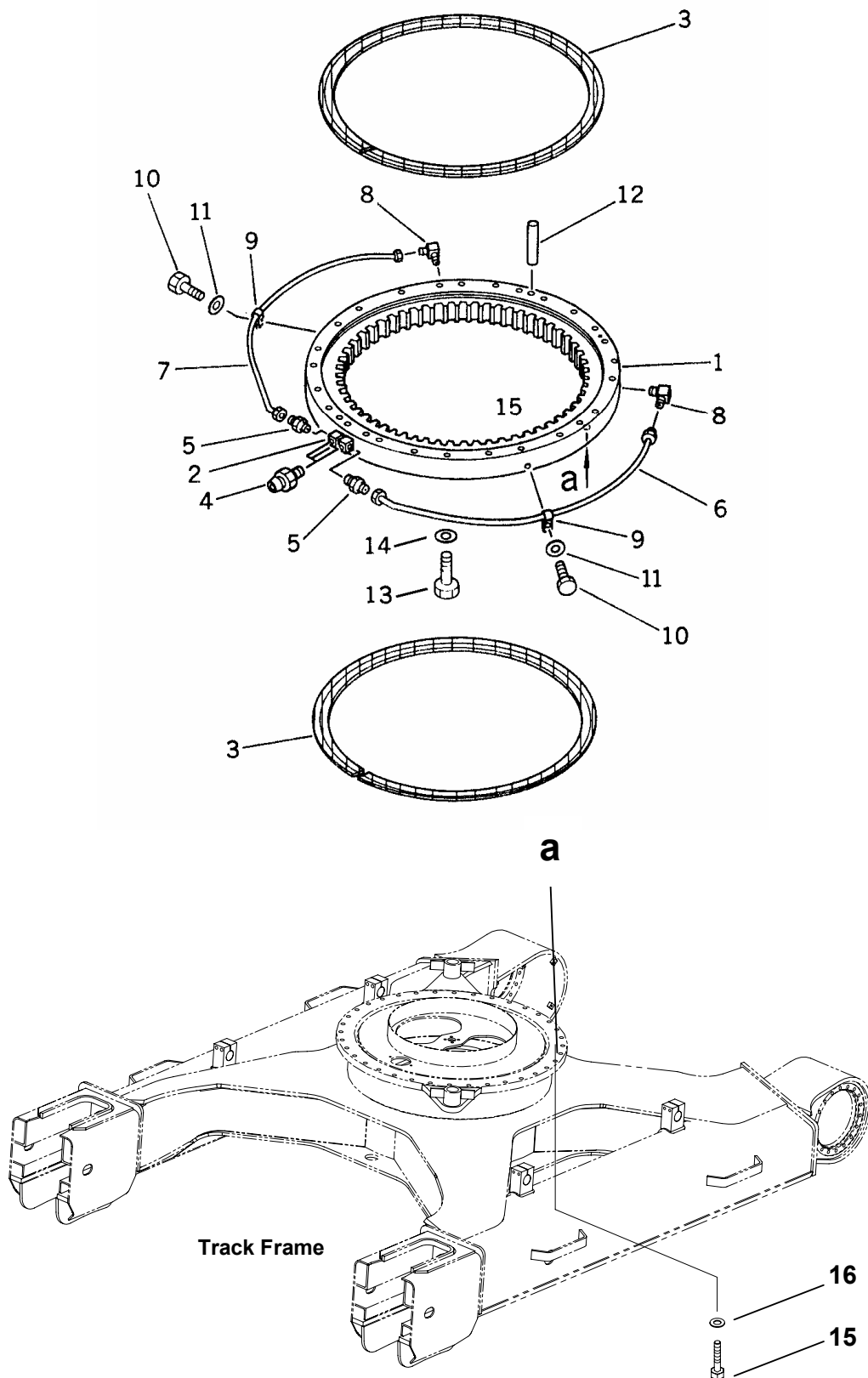
TRACK SHOE
FIG NO.3050

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

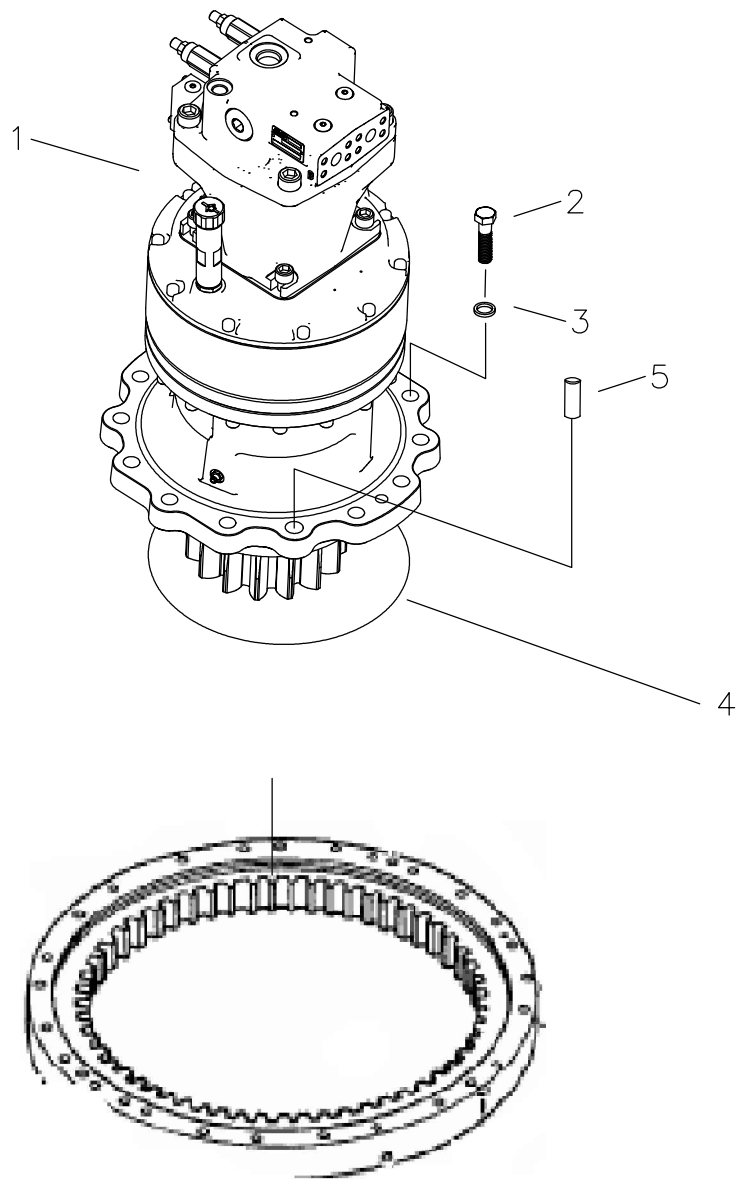
FIG. 4000 SWING CIRCLE



SWING CIRCLE**FIG NO.4000**

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



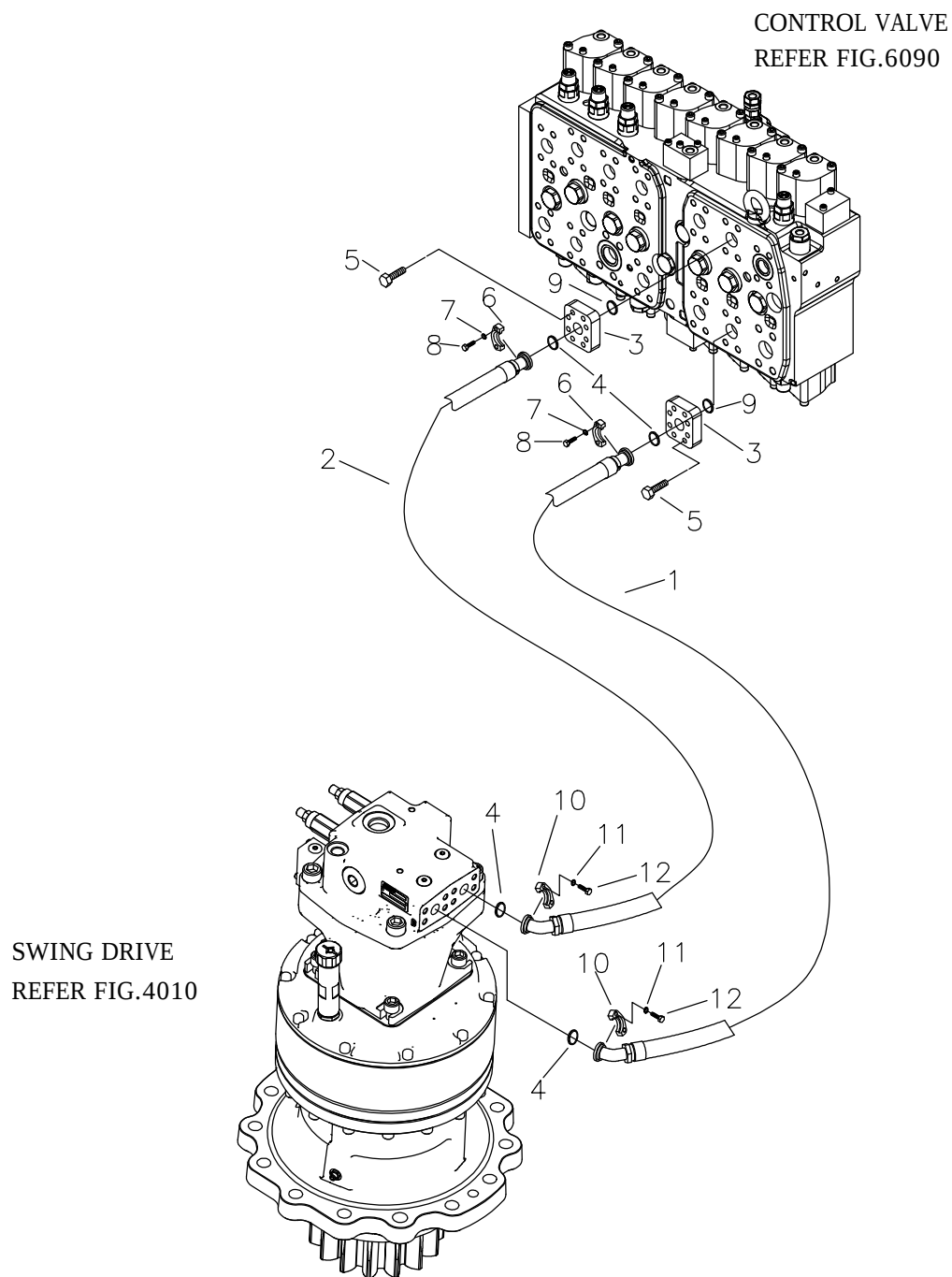
SWING CIRCLE

SWING MACHINERY & MOTOR

FIG NO.4010

ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 SO 01077	SWING MACHINERY ASSY	1	
02	CFS01 32080	SCREW	14	
03	CFW05 20060	WASHER	14	
04	CHS01 15330	O RING	1	
05	130 EI 11014	DOWEL PIN	1	

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



HYDRAULIC PIPING (C. VALVE TO/FROM SWING M)

FIG NO.4070

ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	CHH28 01208	HOSE	1	
02	CHH28 01208	HOSE	1	
03	156 PM 11929	ADAPTOR PLATE	2	
04	CHS01 13025	O RING	4	
05	CFS13 11025	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

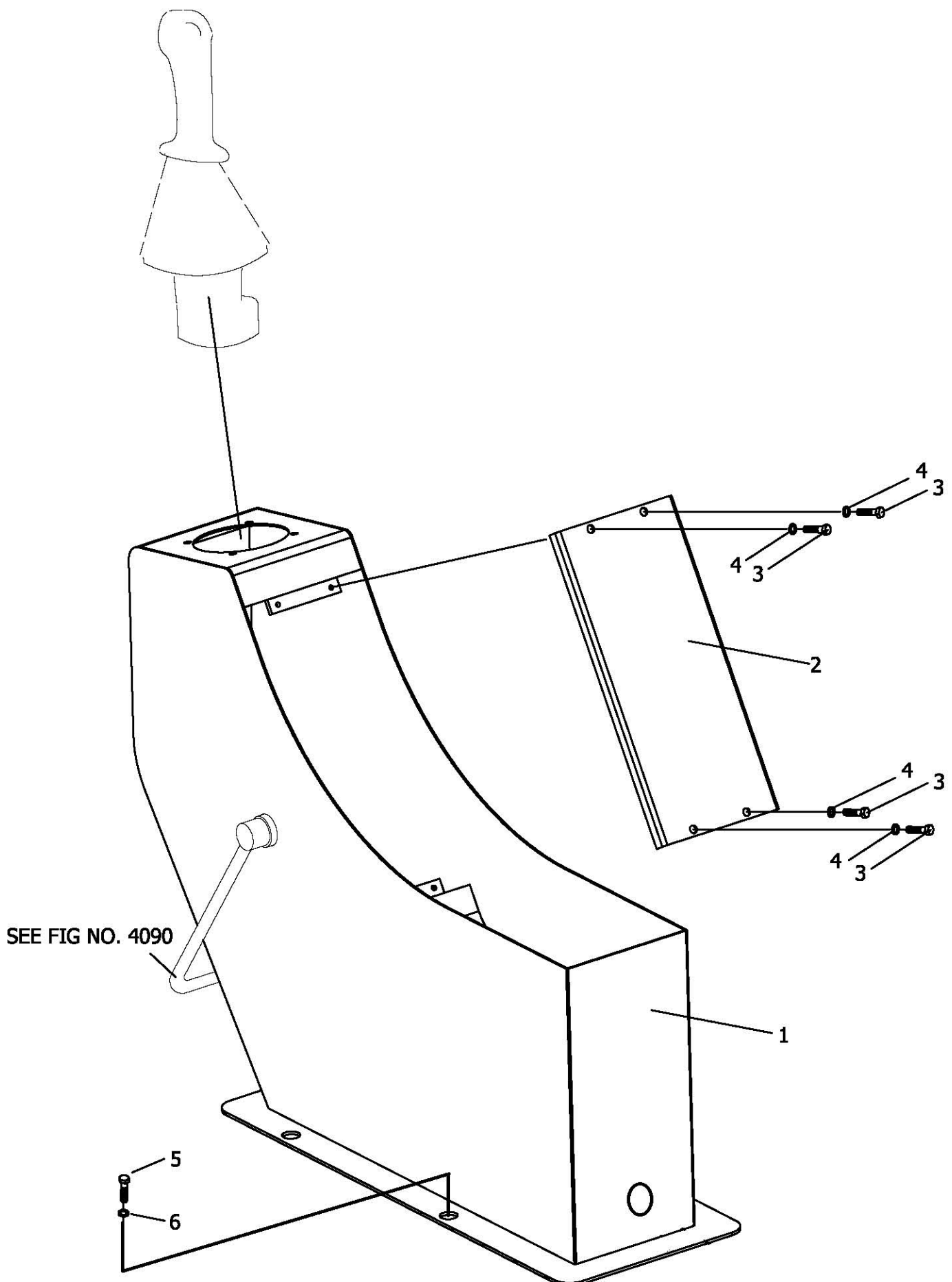
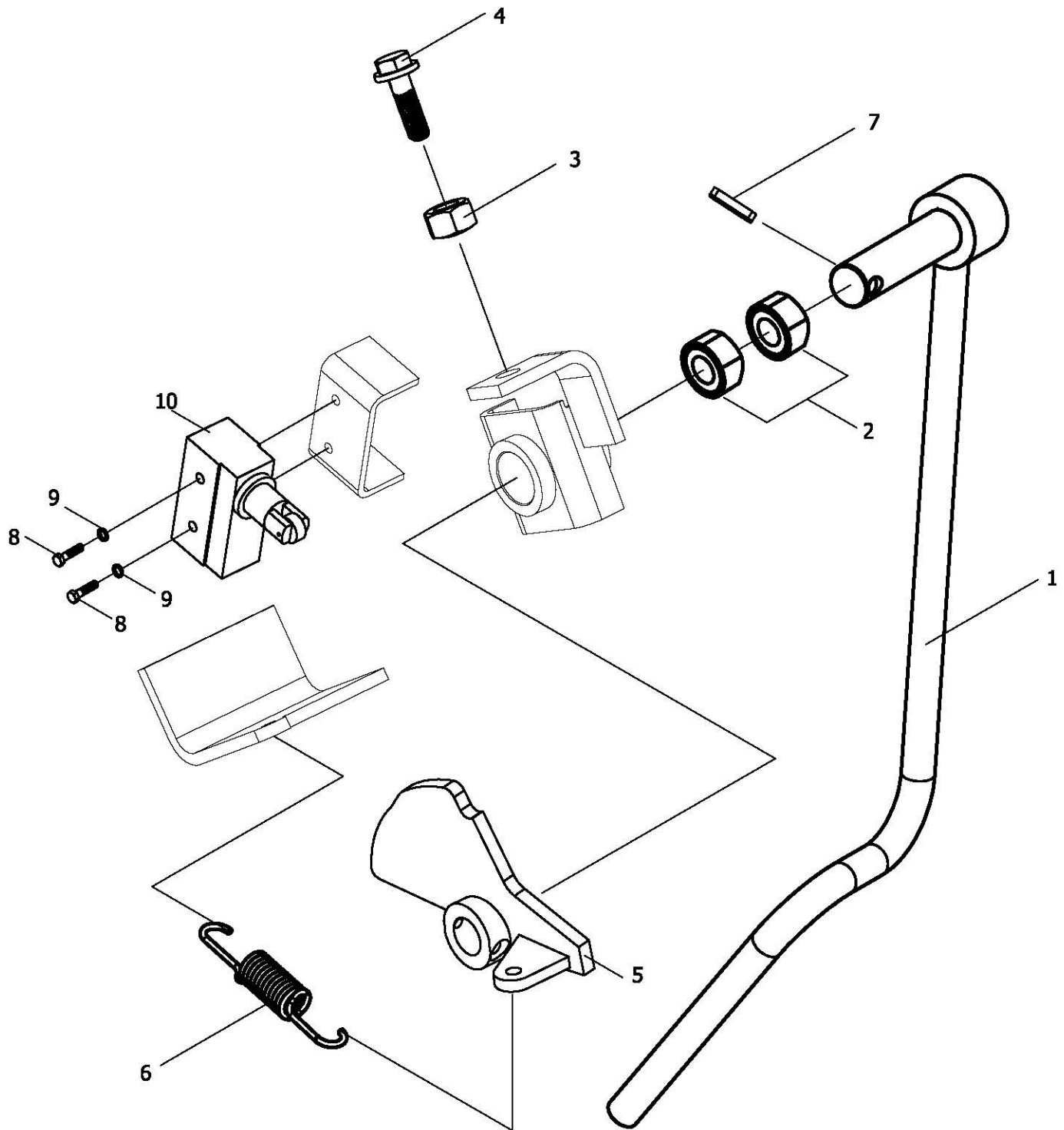


FIG NO.4080

4-9

Fig. 4090 SAFETY LEVER CONTROL

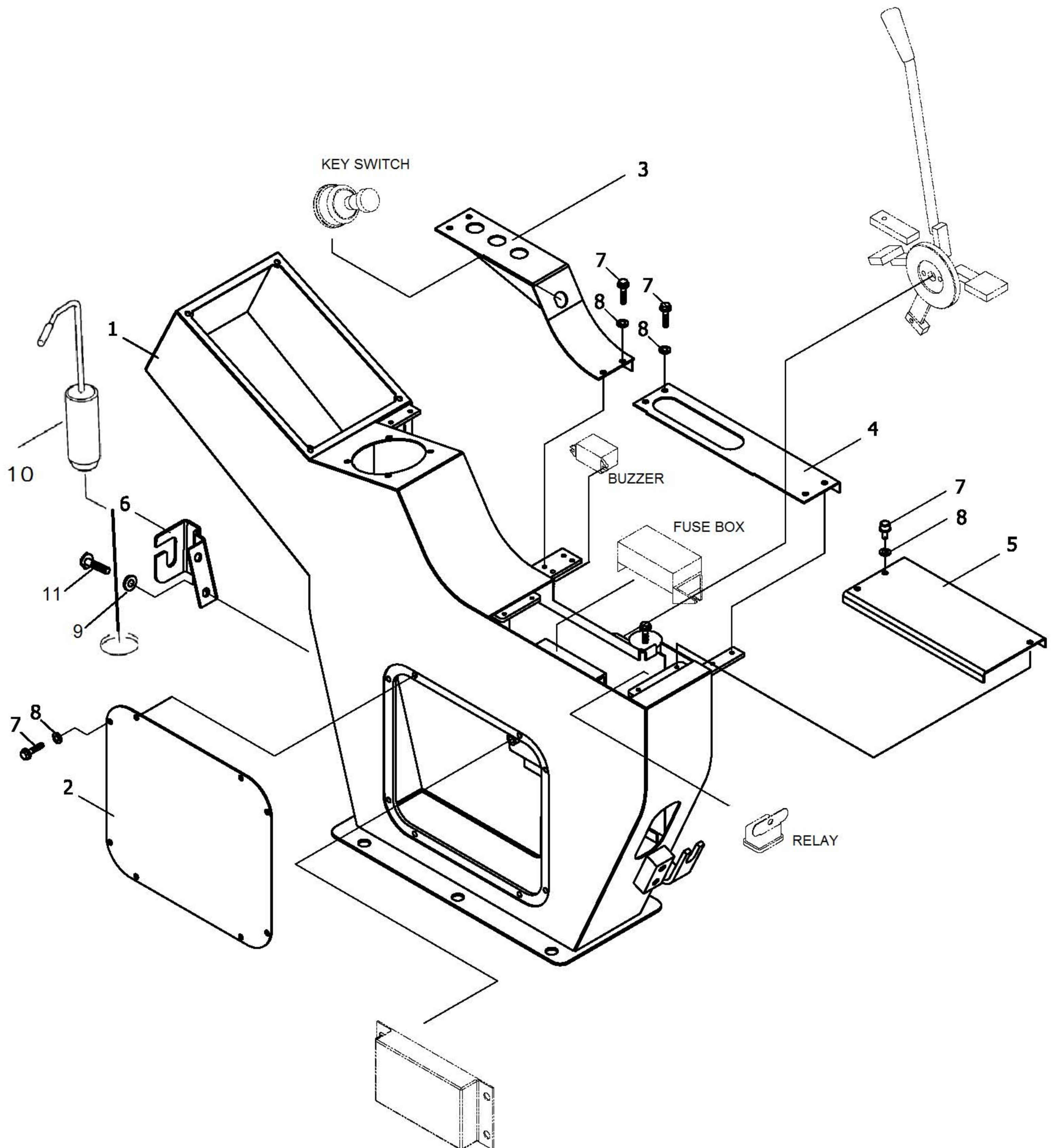


SAFETY LEVER CONTROL

FIG NO.4090

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 30820	. SCREW	1	
05	183 CO 02106	CAM ASSY	1	
06	175 CO 11023	SPRING	1	
07	CFP13 05024	PIN-SPRING	1	
08	CFS01 20430	BOLT	2	
09	CFW03 10406	WASHER	2	
10	125 EG 91672	SWITCH	1	

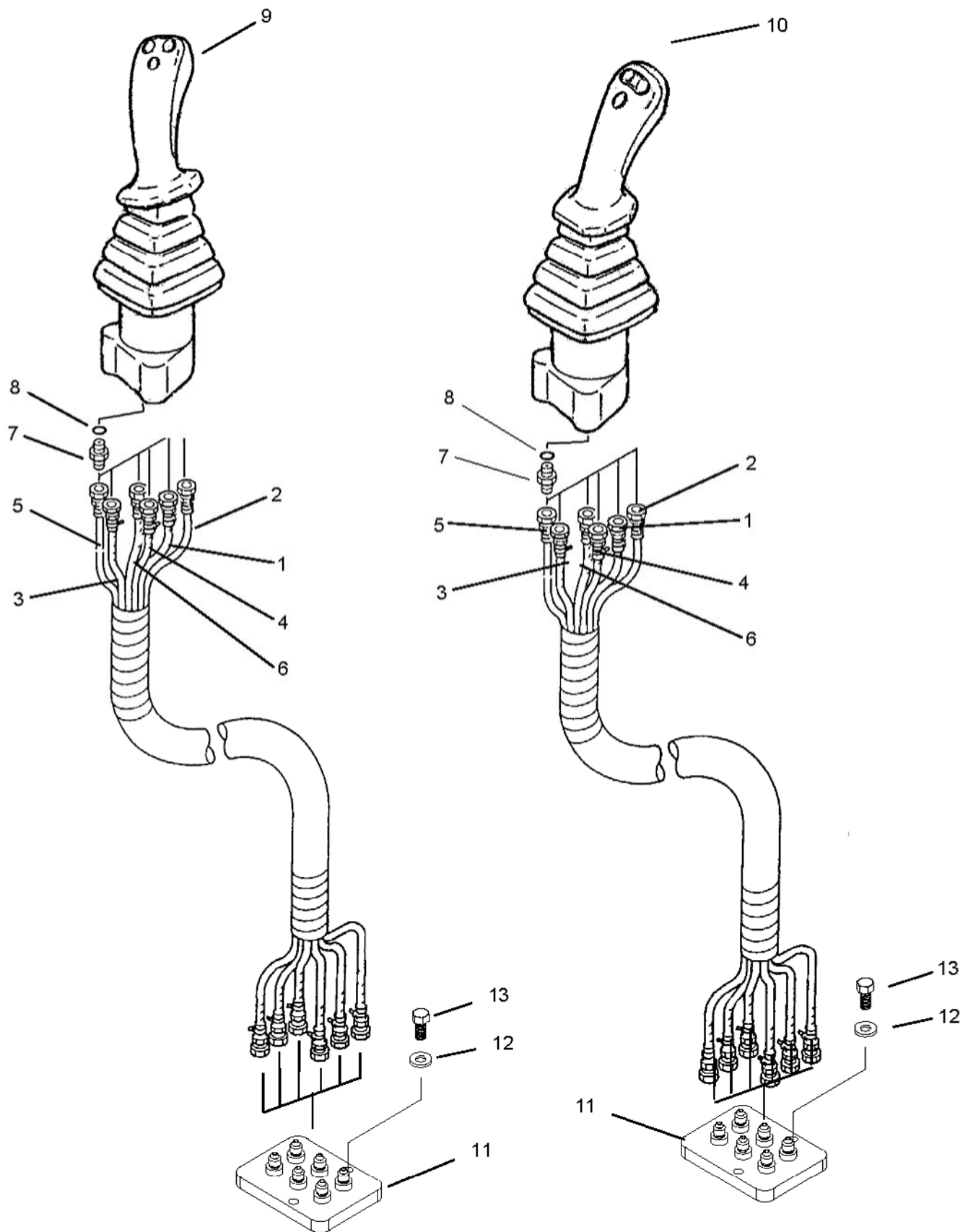
FIG. 4100 CONTROL STAND RH



CONTROL STAND R.H**FIG NO.4100**

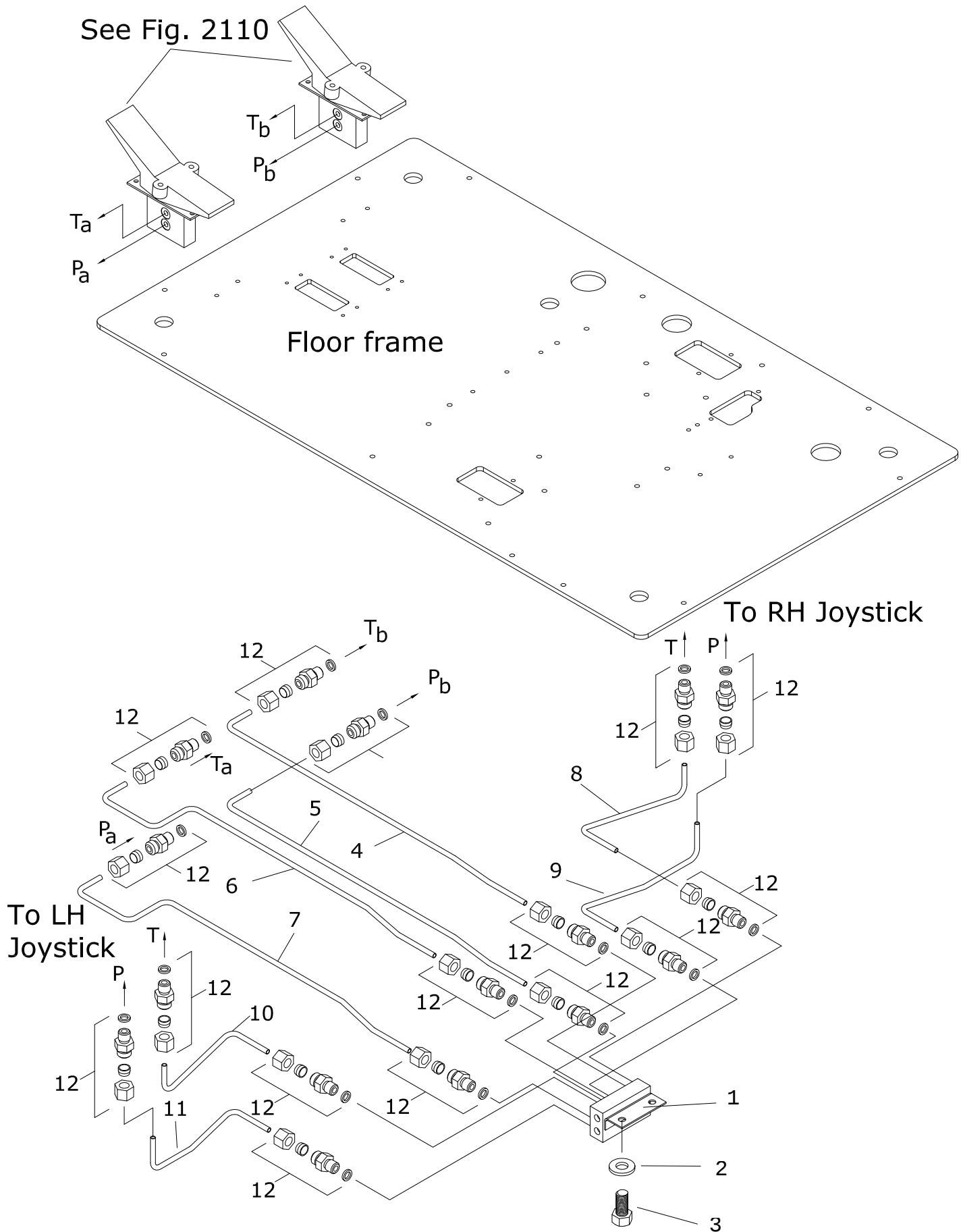
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 CO 02036	CONTROL STAND RH	1	
02	156 CO 12518	PLATE	1	
03	156 CO 02052	PLATE ASSY	1	
04	156 CO 12437	PLATE	1	
05	156 CO 12534	PLATE	1	
06	156 CO 12501	PLATE	1	
07	CFS01 20612	HEX. HEAD SCREW	19	
08	CFW05 06023	WASHER	19	
09	CFW05 10032	WASHER	2	
10	155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

FIG: 4110 PILOT PIPING (1/6)



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	

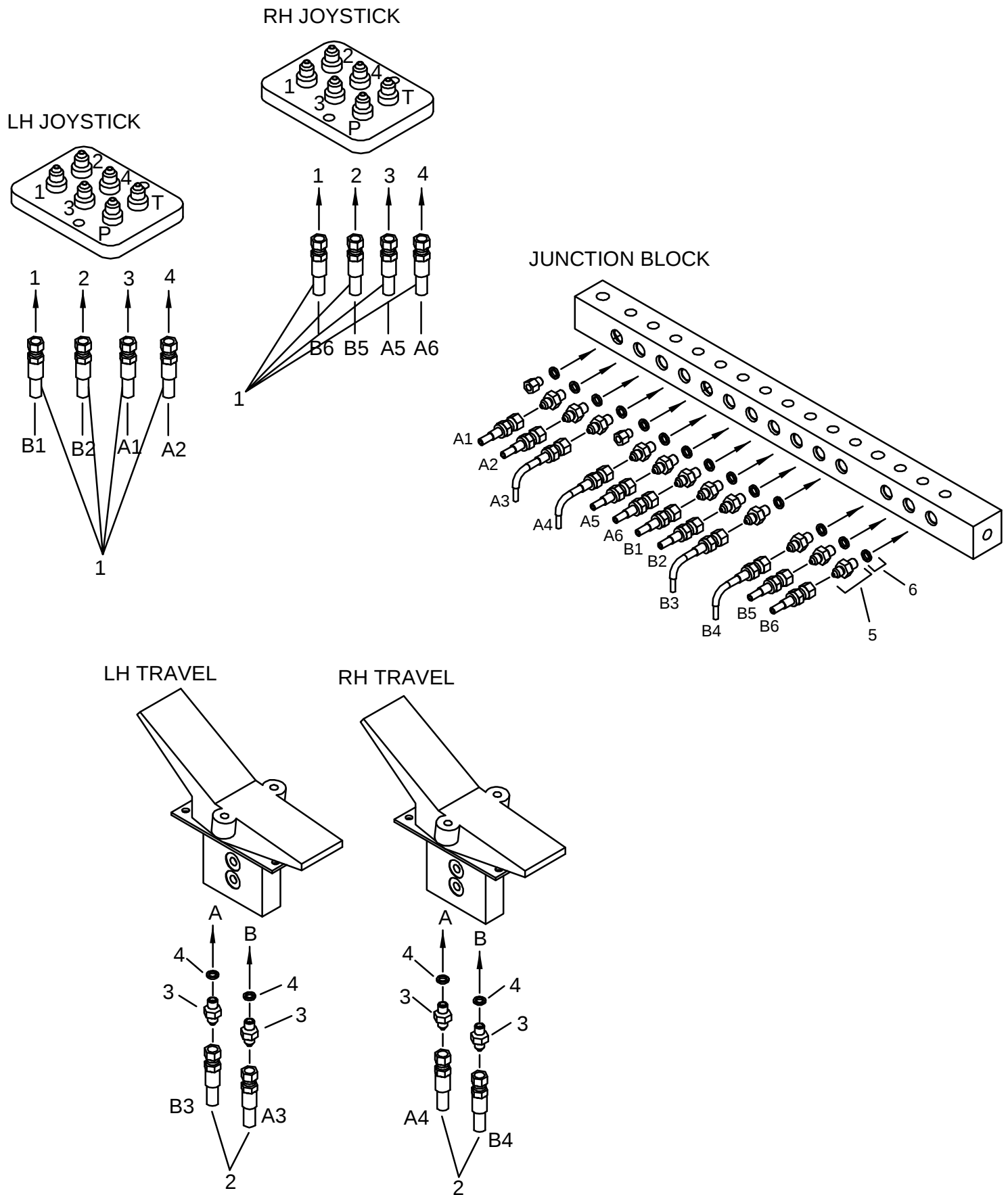
FIG NO. 4120 PILOT PIPING (2/6)



BE220G

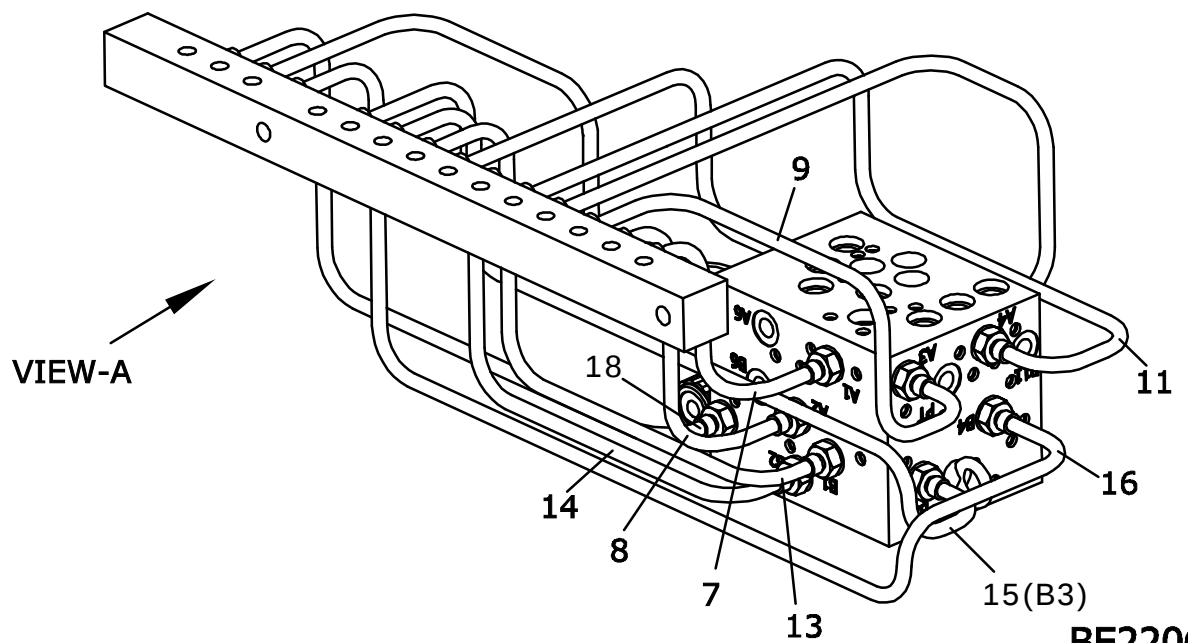
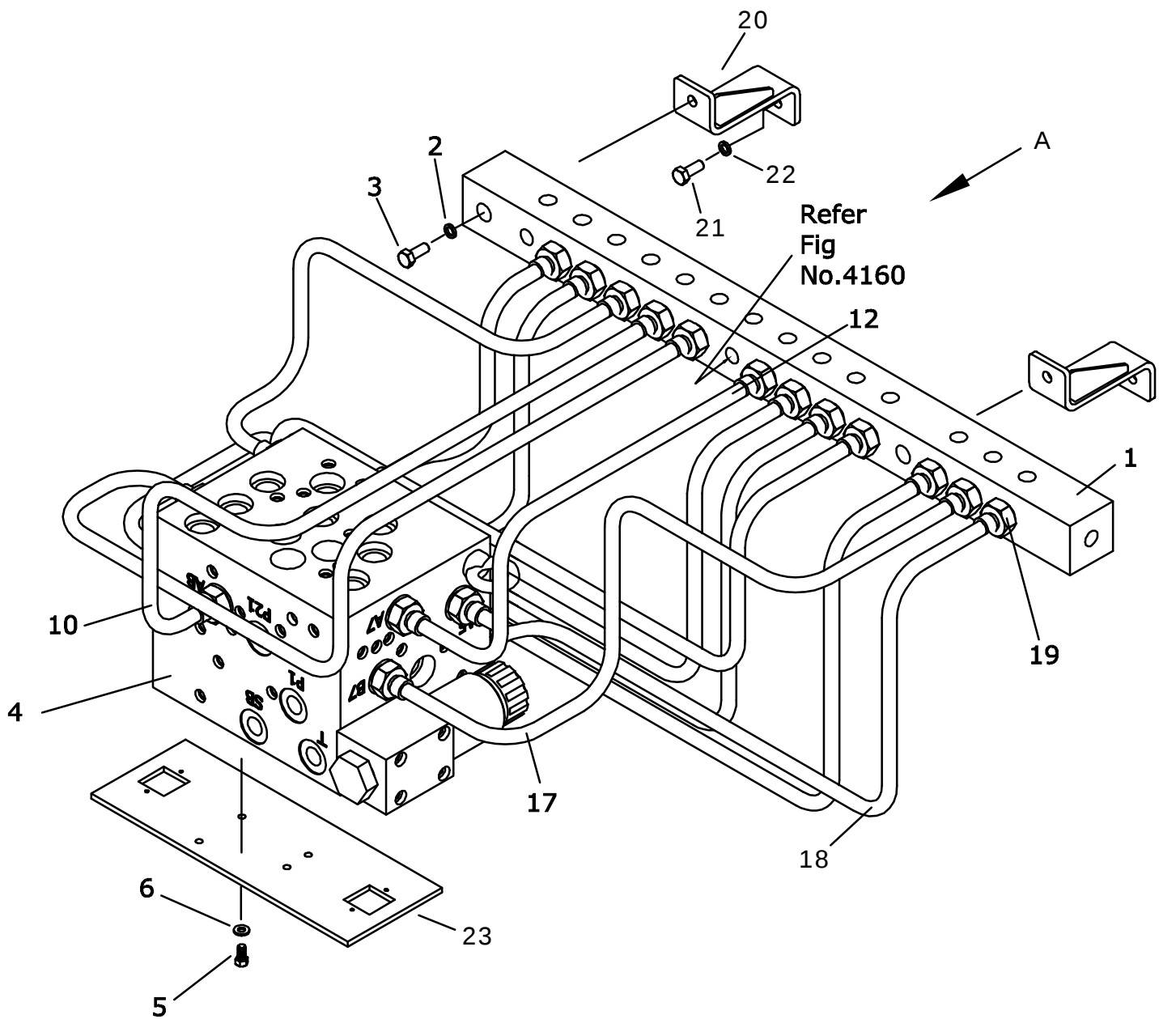
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 PM 02249	BLOCK ASSY.	1	
02	CFW05 12032	WASHER	2	
03	CFS01 31230	SCREW	2	
04	156 PM 10746	TUBE	1	
05	156 PM 10754	TUBE	1	
06	156 PM 10762	TUBE	1	
07	156 PM 10779	TUBE	1	
08	156 PM 10787	TUBE	1	
09	156 PM 10795	TUBE	1	
10	156 PM 10802	TUBE	1	
11	156 PM 10819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

Fig. 4130 PPC VALVE PIPING (3/6)



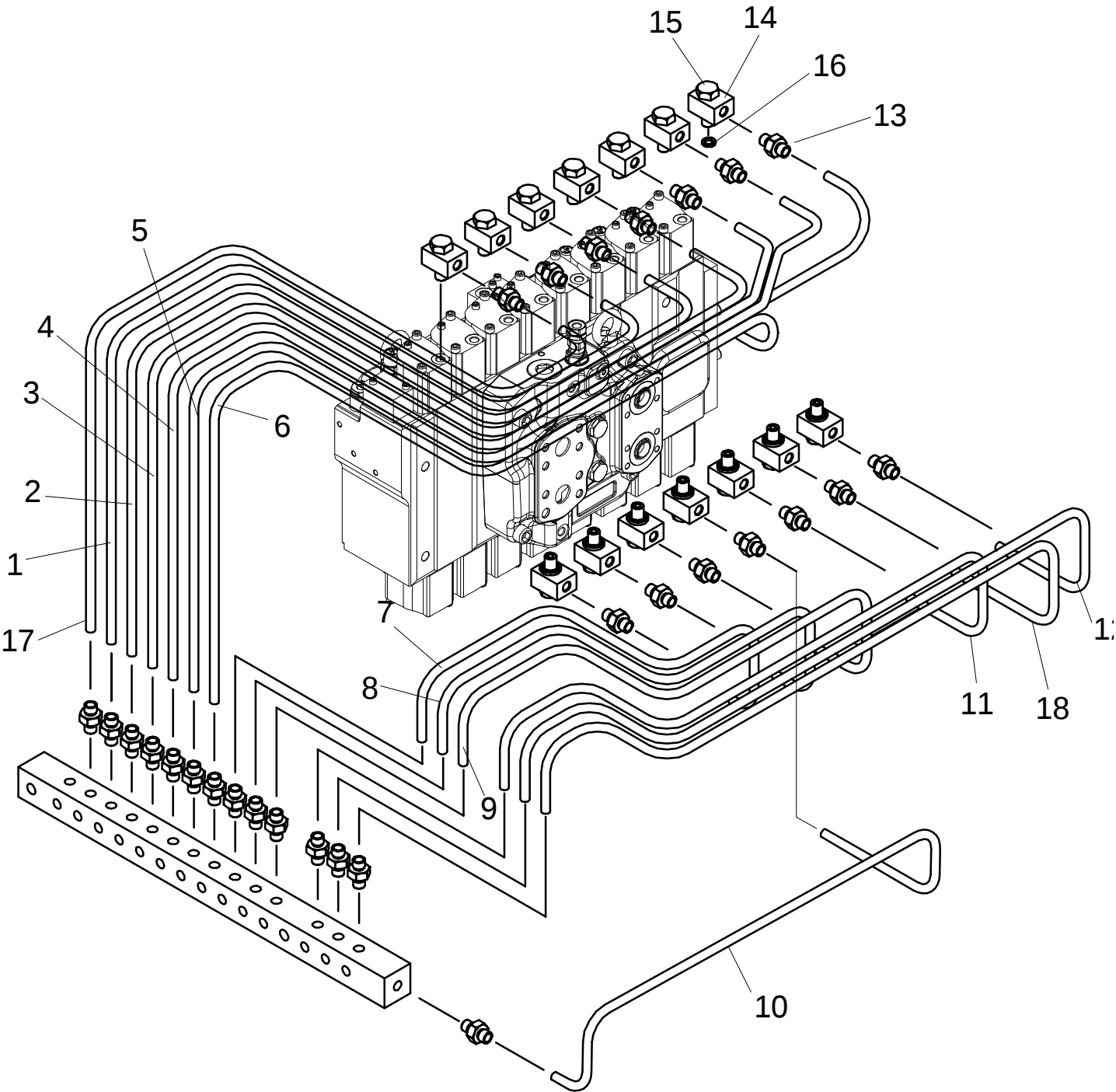
[illegible]

Fig. 4140 PPC VALVE PIPING (4/6)



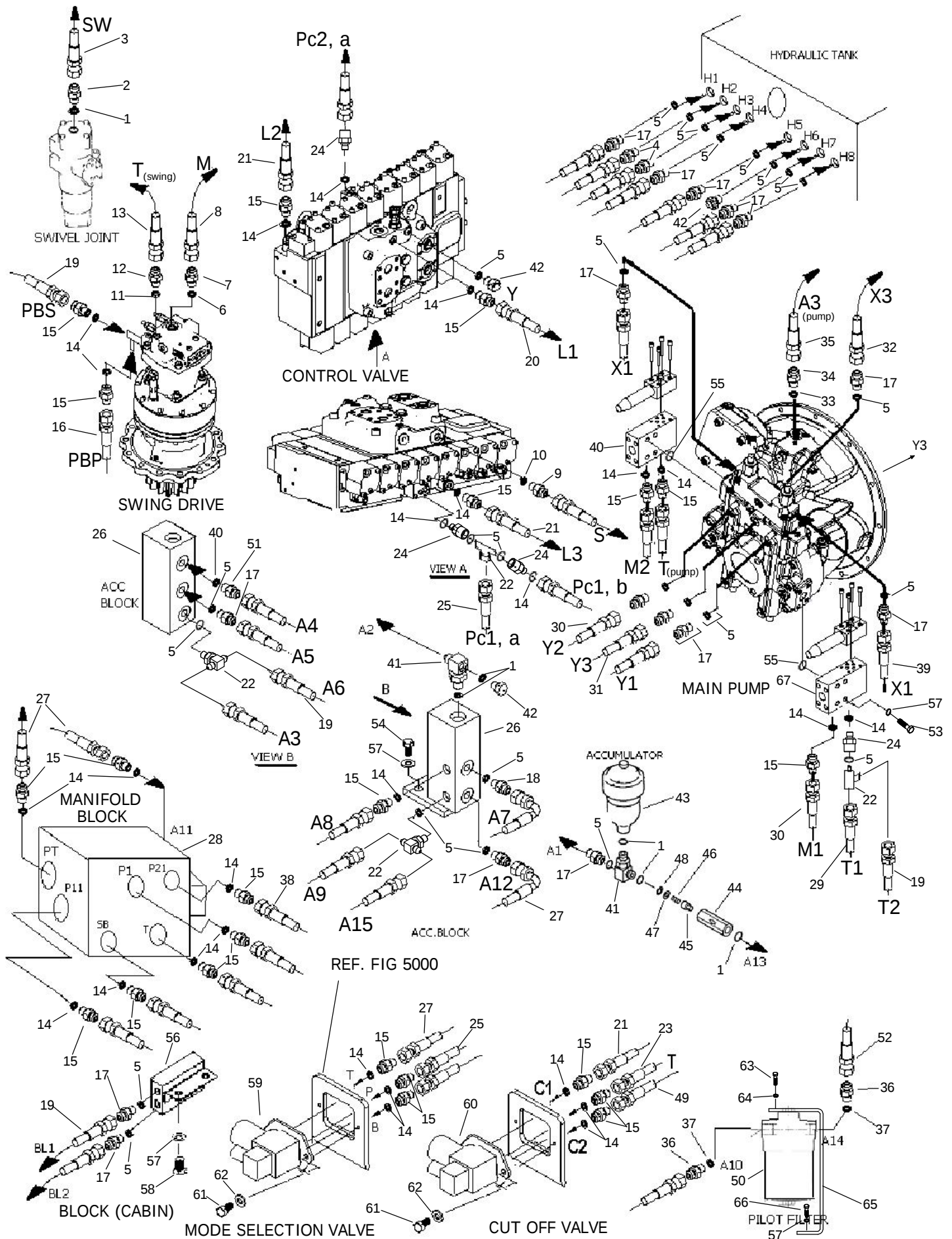
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 PM 12803	JUNCTION BLOCK	1	
02	CFW05 12032	WASHER	2	
03	CFB01 21260	BOLT	2	
04	157 CV 02101	LOGIC BLOCK ASSY	1	
05	CFS01 21020	SCREW	4	
06	CFW01 11030	WASHER	4	
07	156 PM 12552	TUBE	1	
08	156 PM 12569	TUBE	1	
09	156 PM 12577	TUBE	1	
10	156 PM 12811	TUBE	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	ADAPTER ASSY	24	
20	156 PM 02638	BRACKET ASSY	2	
21	CFS01 31230	SCREW	2	
22	CFW05 12032	WASHER	2	
23	156 RF 11946	MOUNTING PLATE	1	

Fig. 4150 PPC VALVE PIPING (5/6)



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 12788	TUBE	1	
12	156 PM 12771	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	

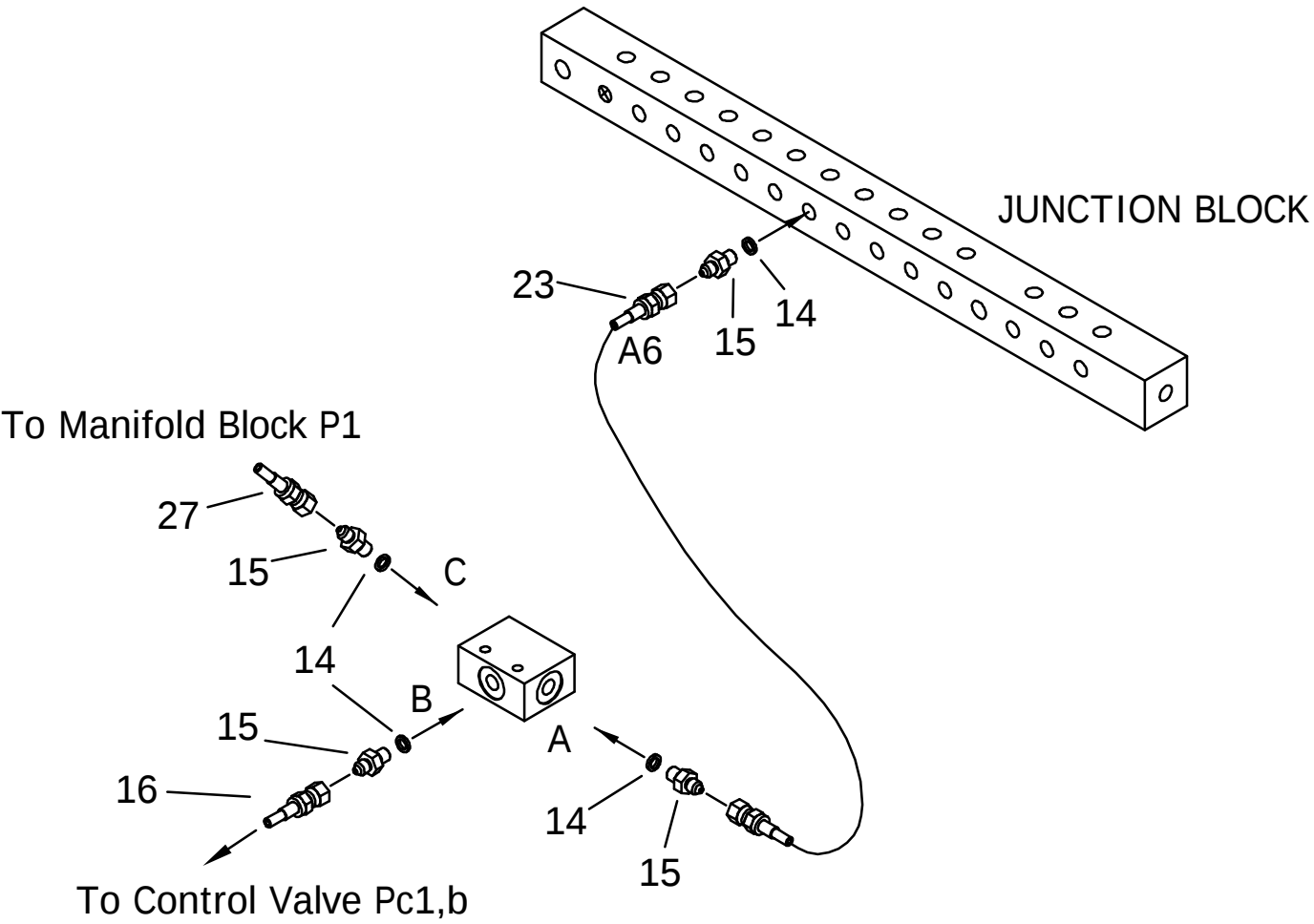
FIG. 4160 PILOT PIPING (6/6)



Contd...

ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	CHS03 12034	O RING	6	
02	CPF15 10318	ADAPTOR	1	
03	CHH22 00617	HOSE	1	
04	156 PM 11159	ADAPTOR	2	
05	CHS03 11423	O RING	26	
06	CHS01 13035	O RING	1	
07	176 FL 10006	ADAPTOR	1	
08	182 PH 91757	HOSE	1	
09	156 PH 11842	ADAPTOR	1	
10	474 PH 63605	O RING	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	16	
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	CHS03 11823	O RING	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	

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	

Fig No. 4160 Pilot Piping (6/6)

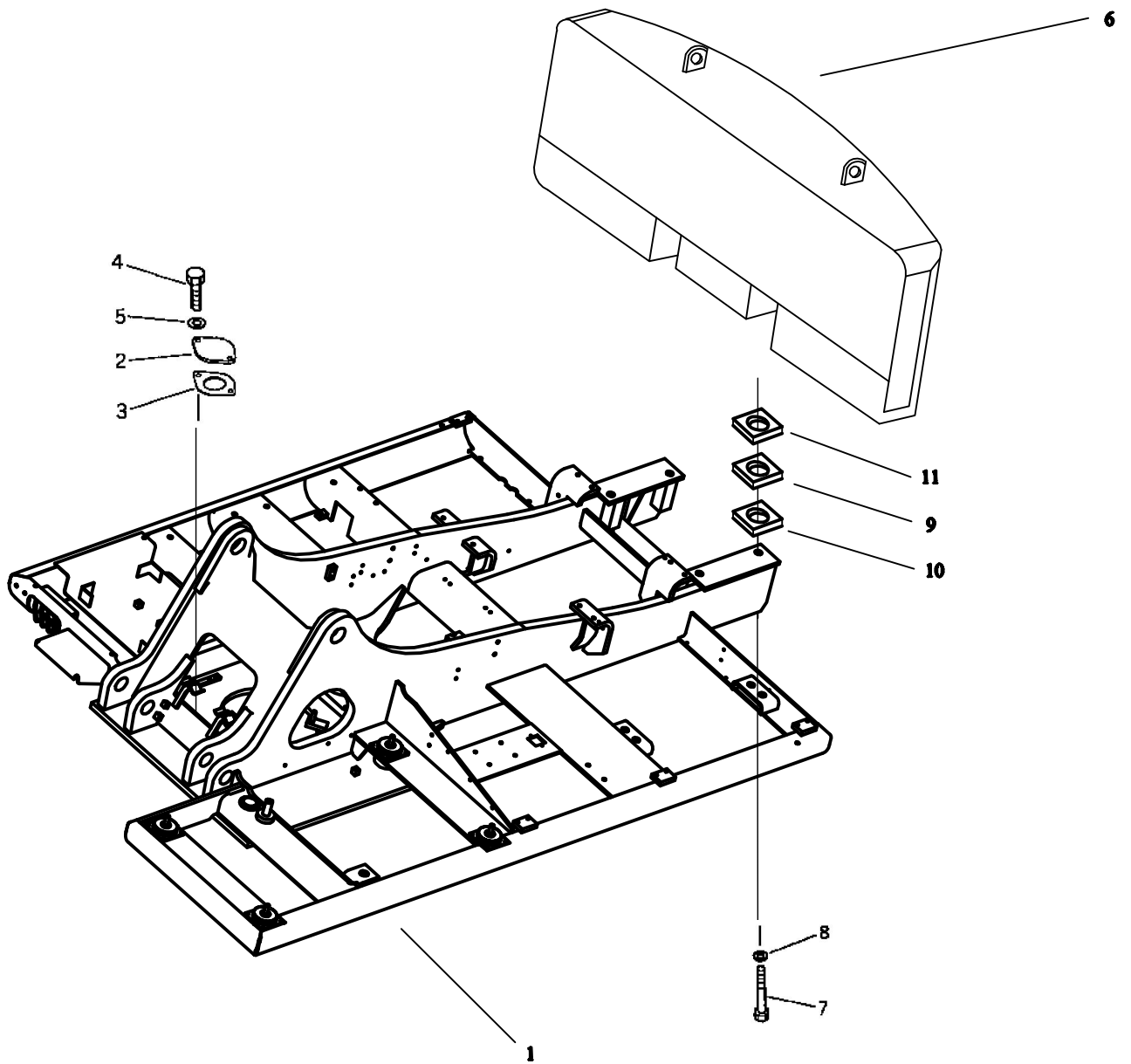
1. Swivel Joint to Tank	- SW to H2
2. Swing to Control Valve	- M to S
3. Swing to Tank	- T to H3
4. Swing to Accumulator Block	- PBS to A5
5. Swing to Manifold Block	- PBP to SB
6. Control Valve to Tank	- L1 to H7
7. Control Valve to Accumulator Block	- L2 to A3
8. Control Valve to Tank	- L3 to H8
9. Control Valve to Control Valve	- Pc1,a to Pc2,a
10. Control Valve to Shuttle valve	- Pc1,b to B
11. Full cut off Valve (tank line) to Accumulator Block	- T to A15
12. Junction Block to Shuttle valve	- A6 to A
13. Block (Cabin) to Tank	- BL1 to H1
14. Pump to Tank	- T2 to H4
15. Cut Off RH to Cut Off LH	- T1 to T, pump
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	- P, MS to A8
24. Mode Selection Valve to Accumulator Block	- T, 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 Shuttle valve	- P1 to C

LEFT BLANK

LEFT BLANK

V. REVOLVING FRAME AND CAB

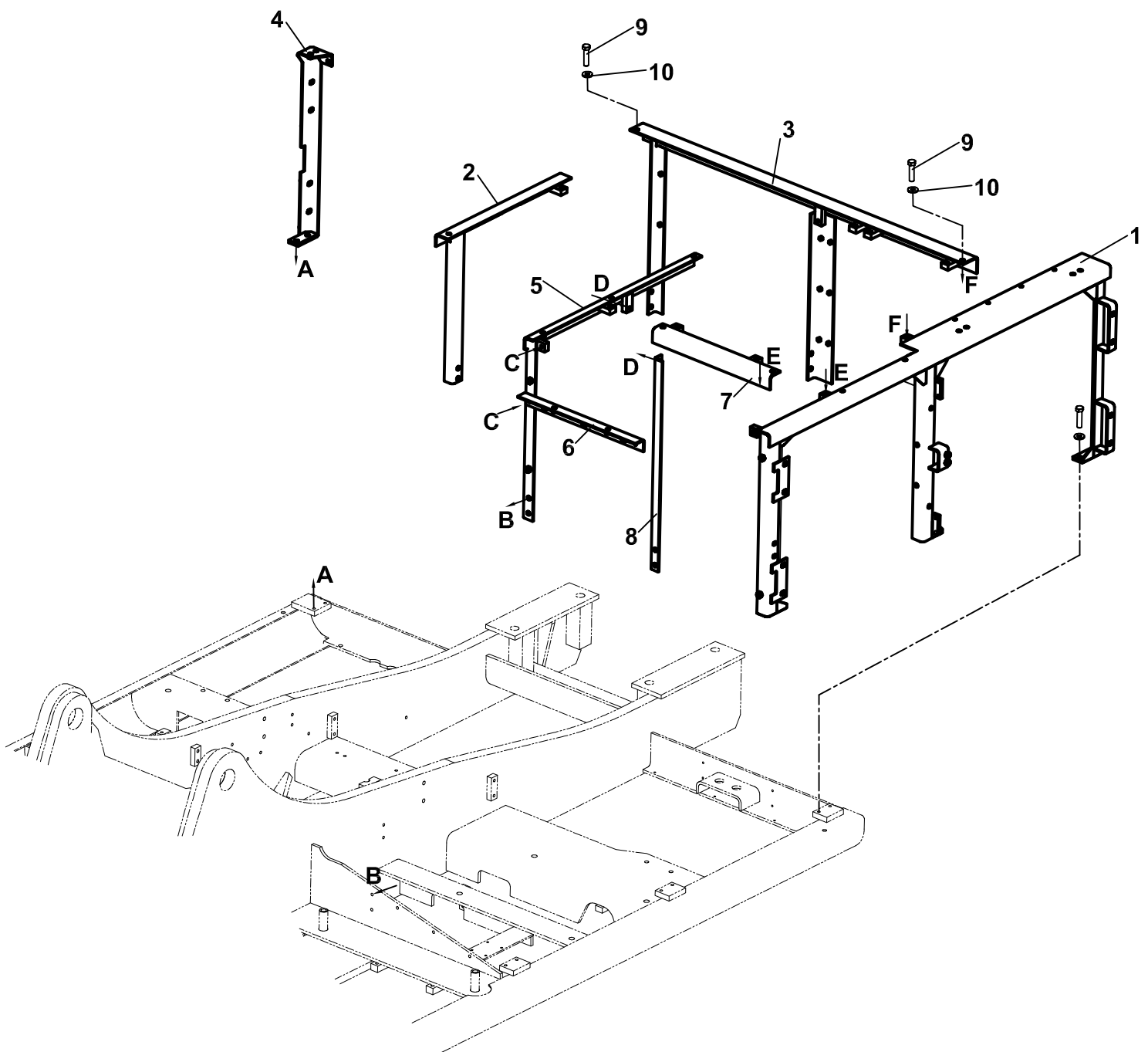
FIG. 5000 REVOLVING FRAME



REVOLVING FRAME**FIG NO.5000**

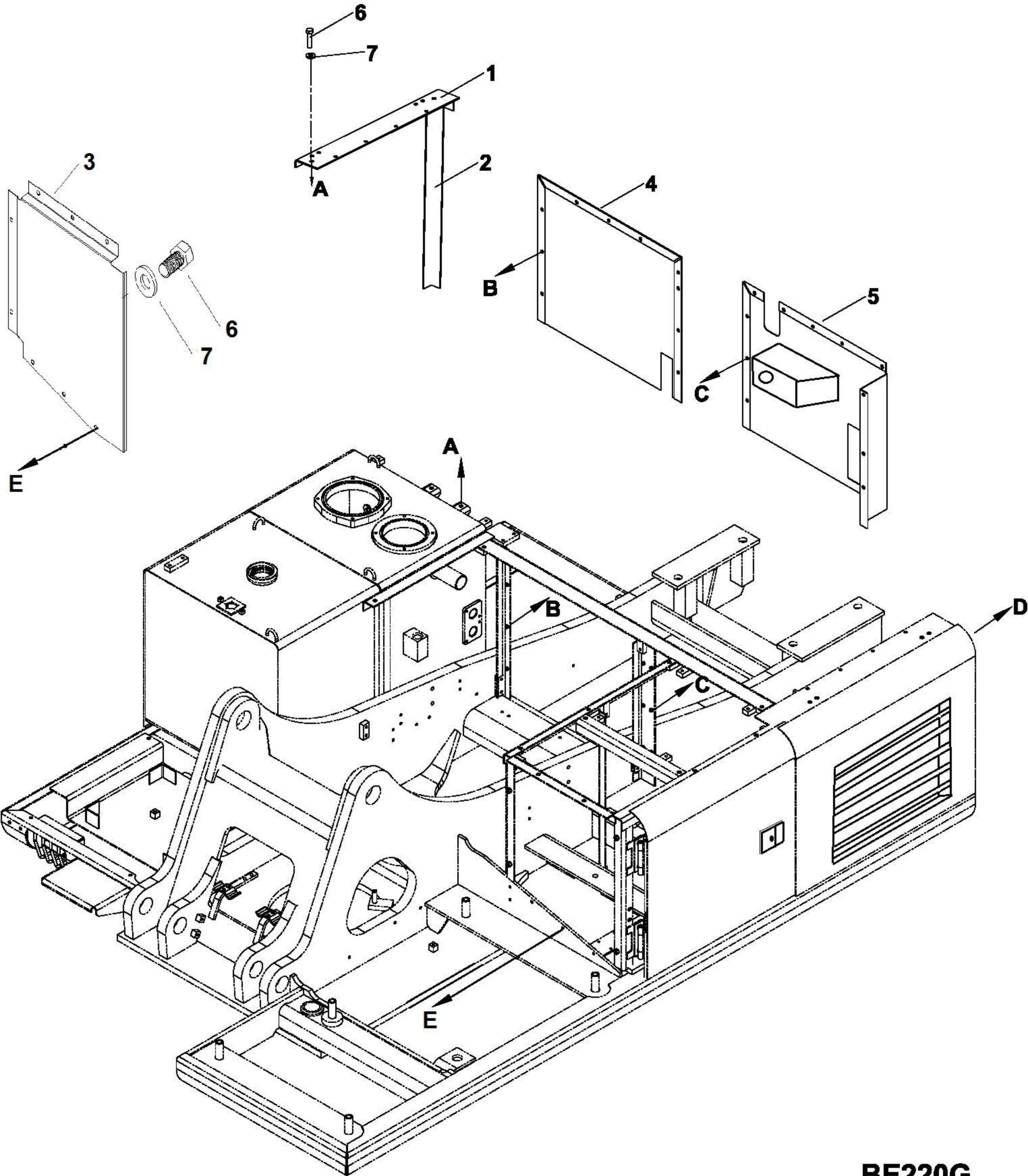
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 RF 02047	FRAME REVOLVING	1	
02	155 TF 11692	COVER	1	
03	155 TF 61701	GASKET	1	
04	CFS01 31230	SCREW	2	
05	CFW05 12032	WASHER	2	
06	156 CW 02009	WEIGHT COUNTER	1	
07	156 RF 11524	BOLT	4	
08	CFW05 27080	WASHER	4	
09	160 RF 11102	SHIM	4	
10	160 RF 11119	SHIM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

Fig. 5010 MACHINERY COMPARTMENT (1/6)



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)



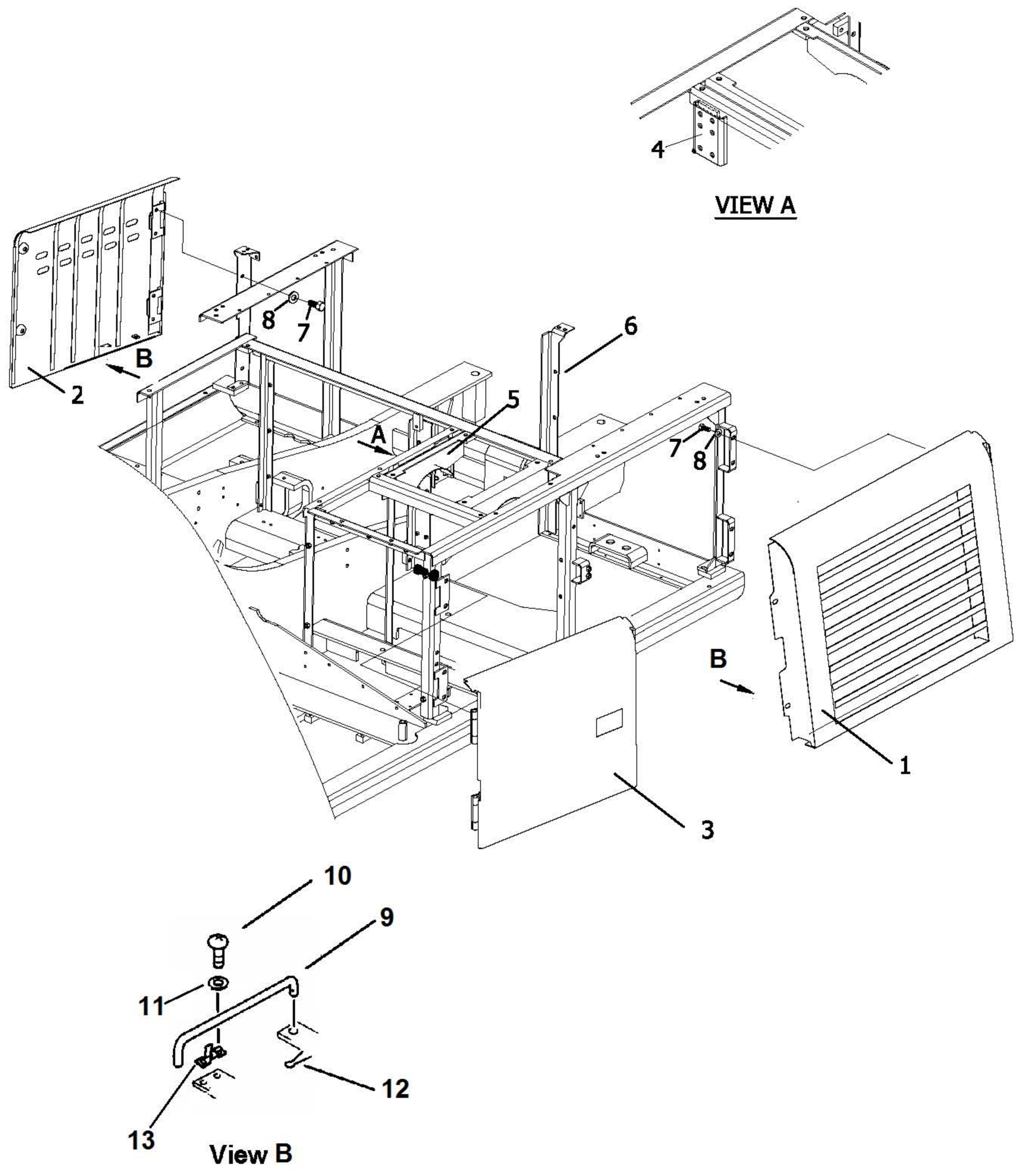
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MACHINERY COMPARTMENT (2/6)

FIG NO.5020

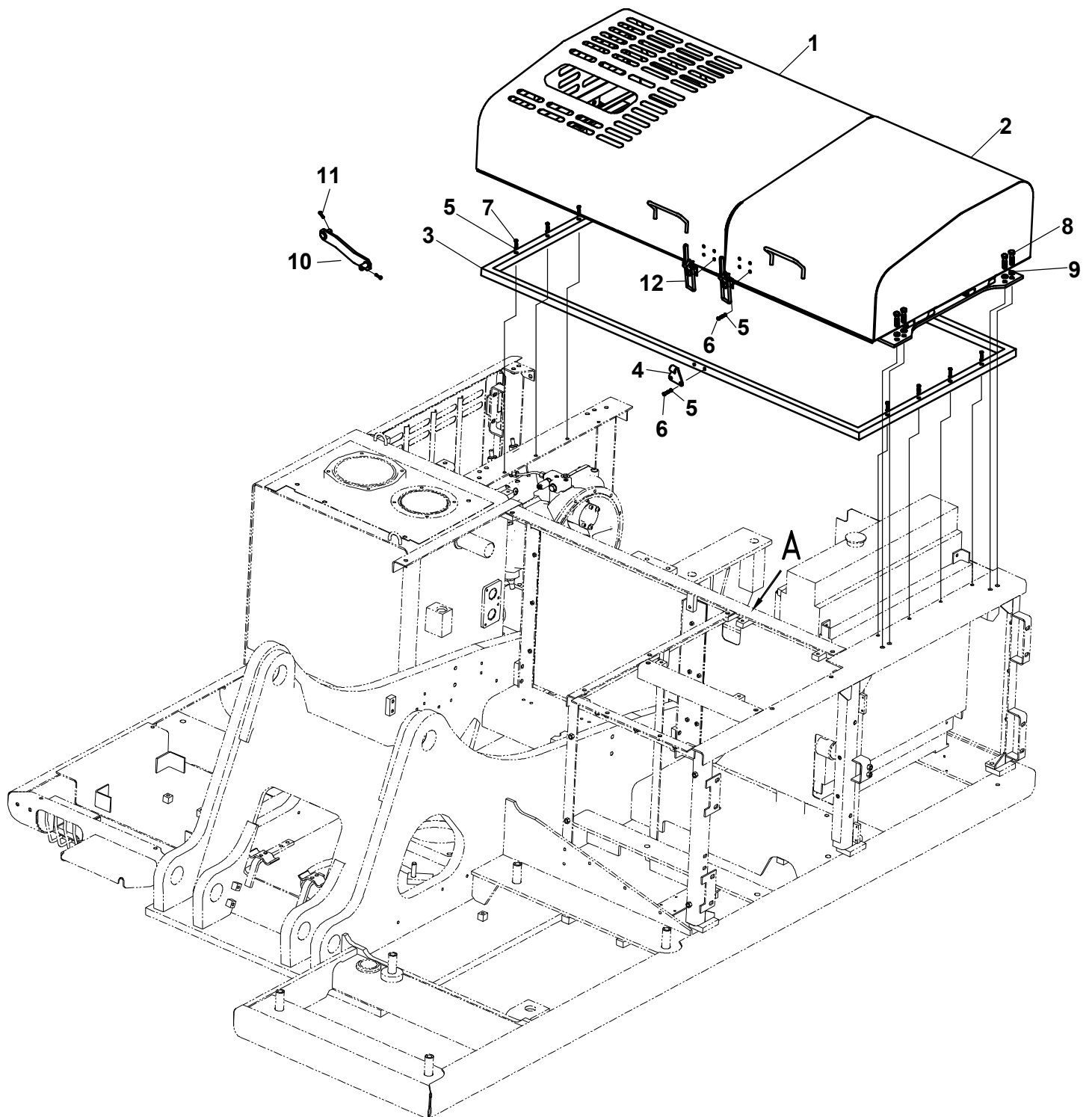
[illegible]

Fig. 5030 MACHINERY COMPARTMENT (3/6)



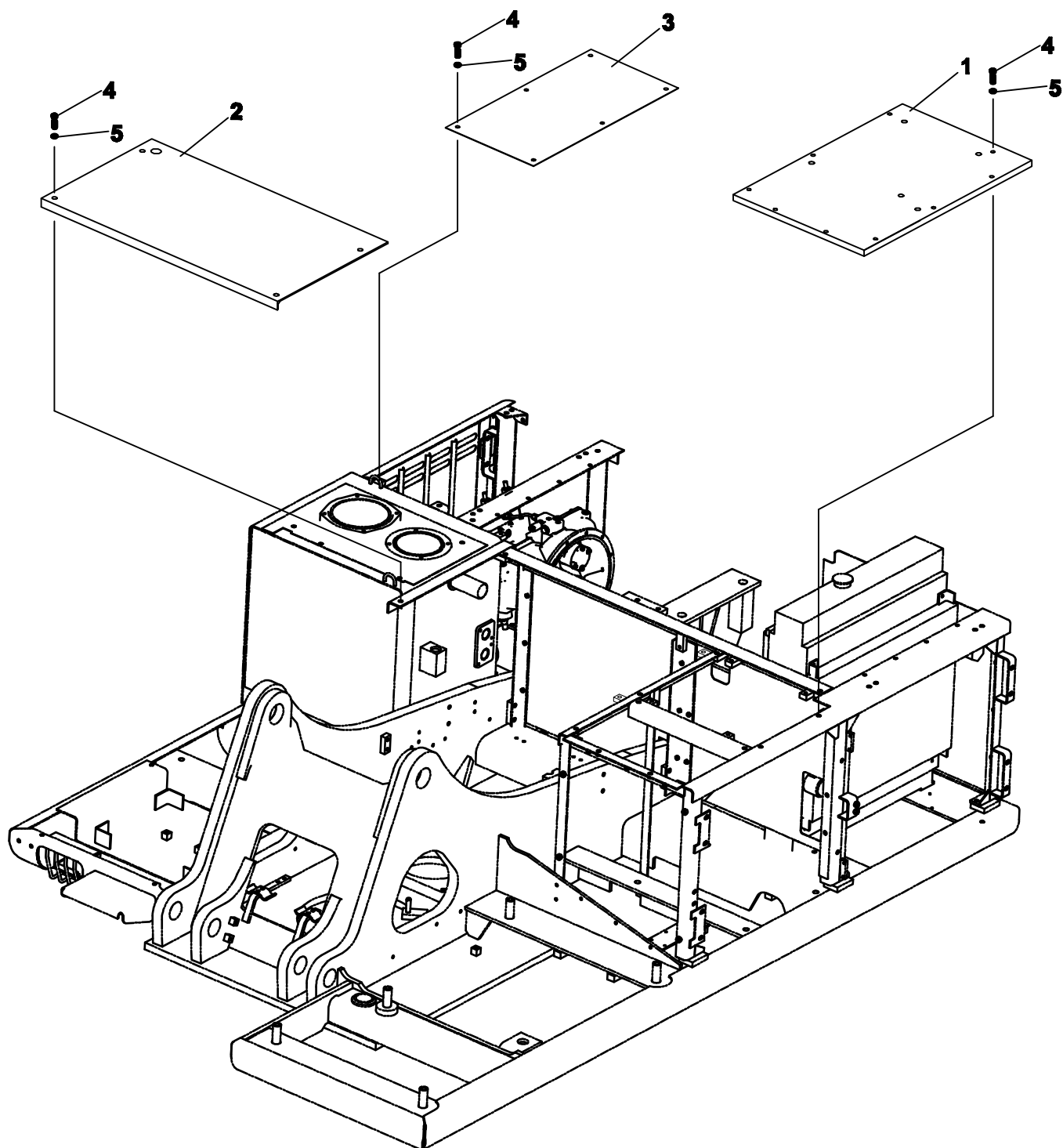
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 EH 02483	DOOR (RADIATOR SIDE)	1	
02	156 EH 02531	DOOR (PUMP SIDE)	1	
03	156 EH 02548	DOOR (CABIN SIDE)	1	
04	156 EH 03203	PLATE ASSY	1	
05	156 EH 03211	PLATE ASSY	2	
06	156 EH 13142	BRACKET	1	
07	CFS01 31025	SCREW	16	
08	CFW05 10032	WASHER	16	
09	155 EH 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 EH03147	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	CFW05 12032	WASHER	8	
10	171 EH 02195	STAY	1	
11	CFP01 06340	PIN	1	
12	156 EH 03244	HOOD CATCHER ASSY	4	

Fig. 5040 MACHINERY COMPARTMENT (4/6) B

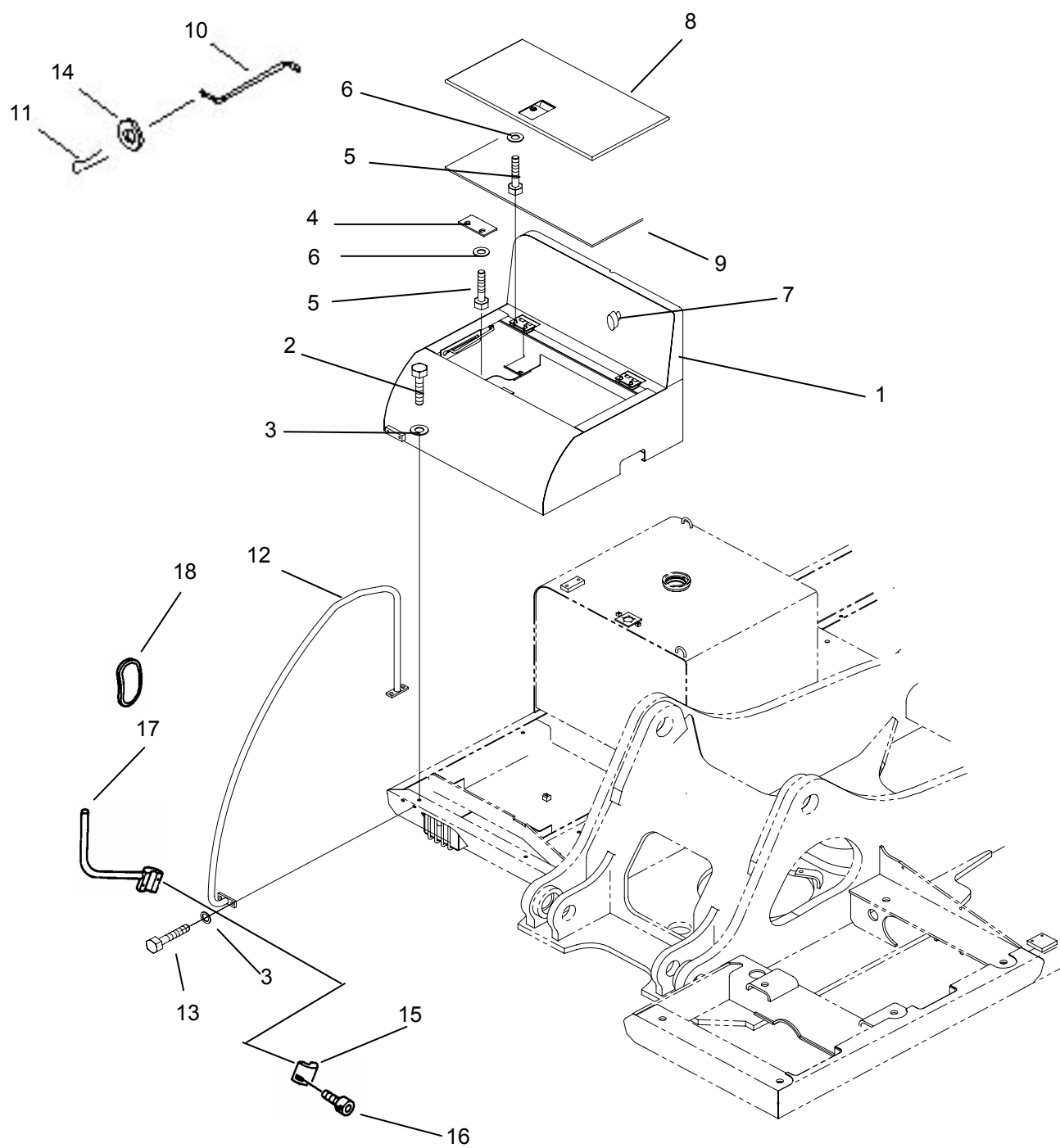


MACHINERY COMPARTMENT (4/6)

FIG NO.5040B

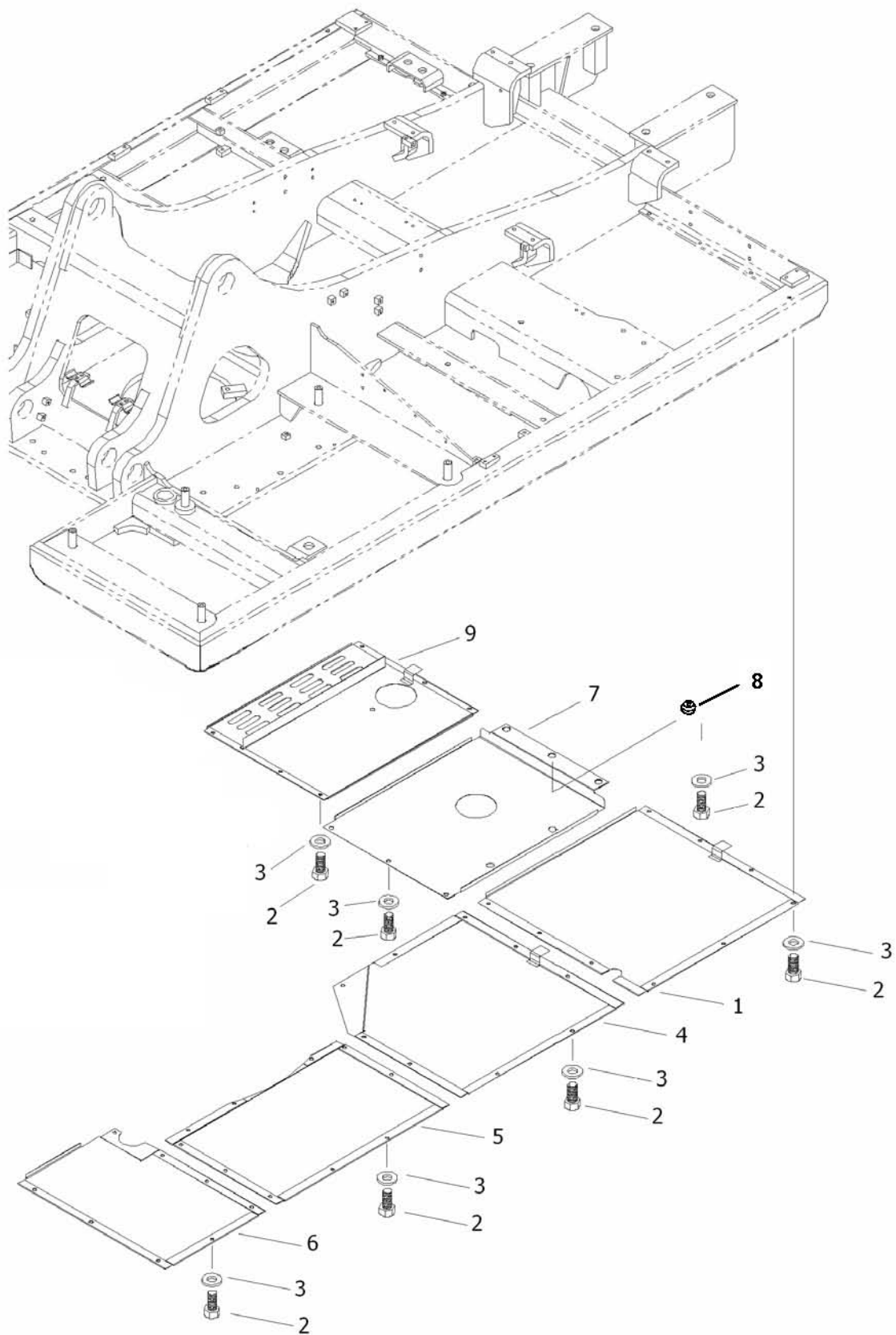
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 EH 13215	COVER	1	
02	156 EH 13223	COVER	1	
03	156 EH 02645	COVER ASSY	1	
04	CFS01 31225	BOLT	19	
05	CFW05 12032	WASHER	19	

FIG. 5050 MACHINERY COMPARTMENT (5/6)



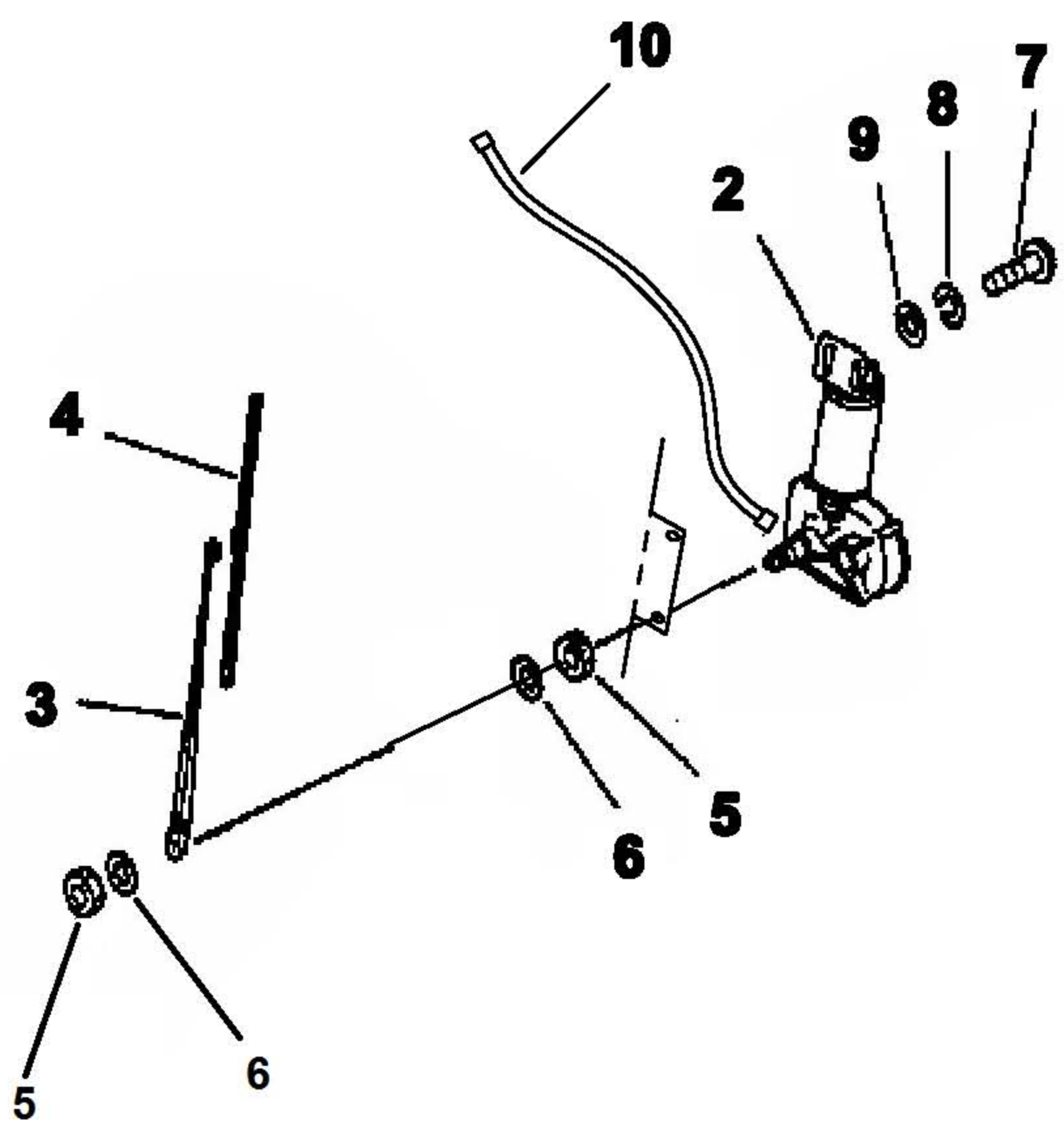
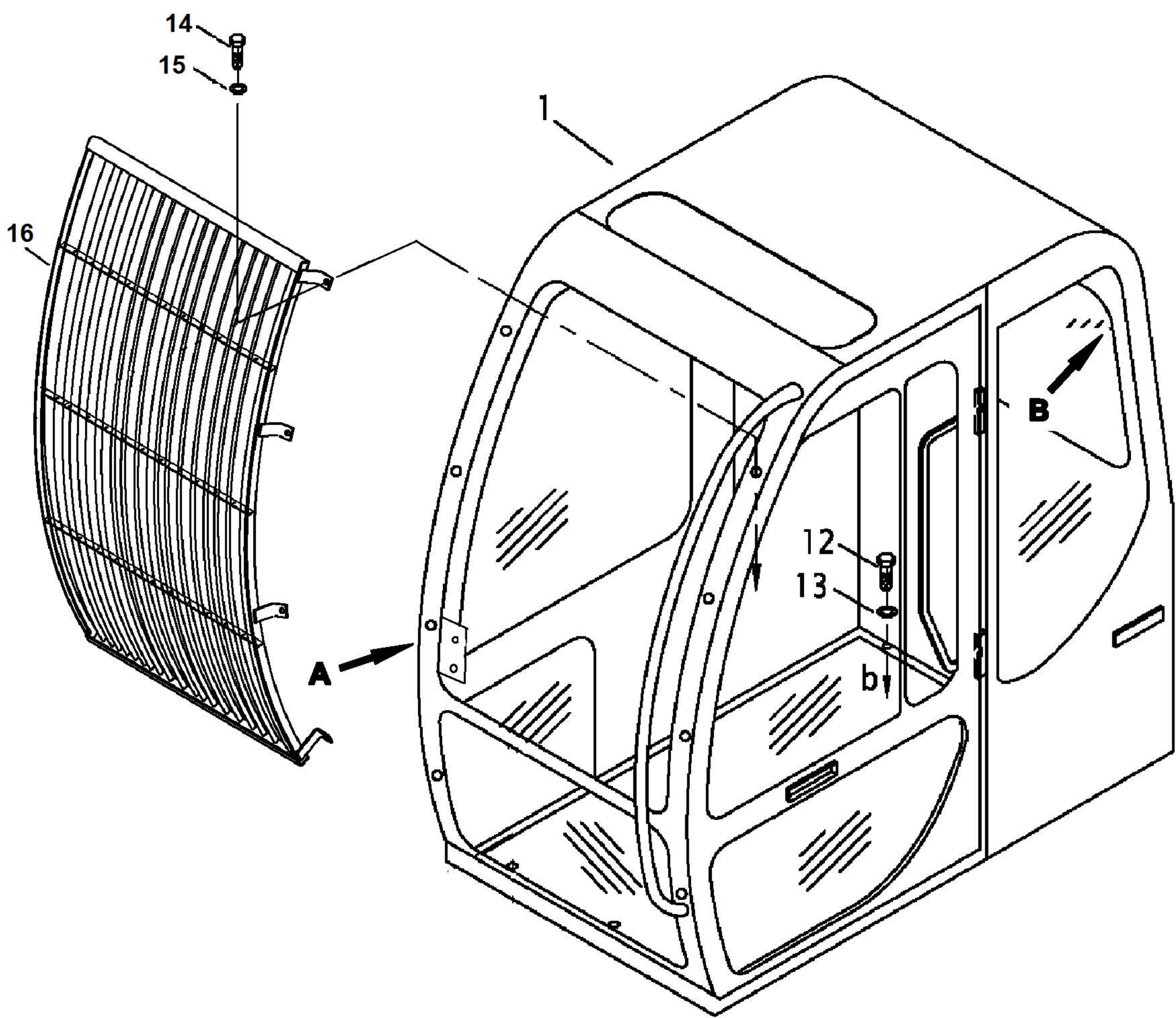
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	154 EH 03012	BATTERY BOX	1	
02	CFS01 31225	SCREW	4	
03	CFW05 12032	WASHER	8	
04	154 EH 10392	PLATE	1	
05	CFS01 21020	SCREW	6	
06	CFW01 11030	WASHER SPRING	6	
07	155 EH 63057	STOPPER	2	
08	154 EH 03029	DOOR	1	
09	154 EH 60386	SEAL	1	
10	154 EH 10408	ROD	1	
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)

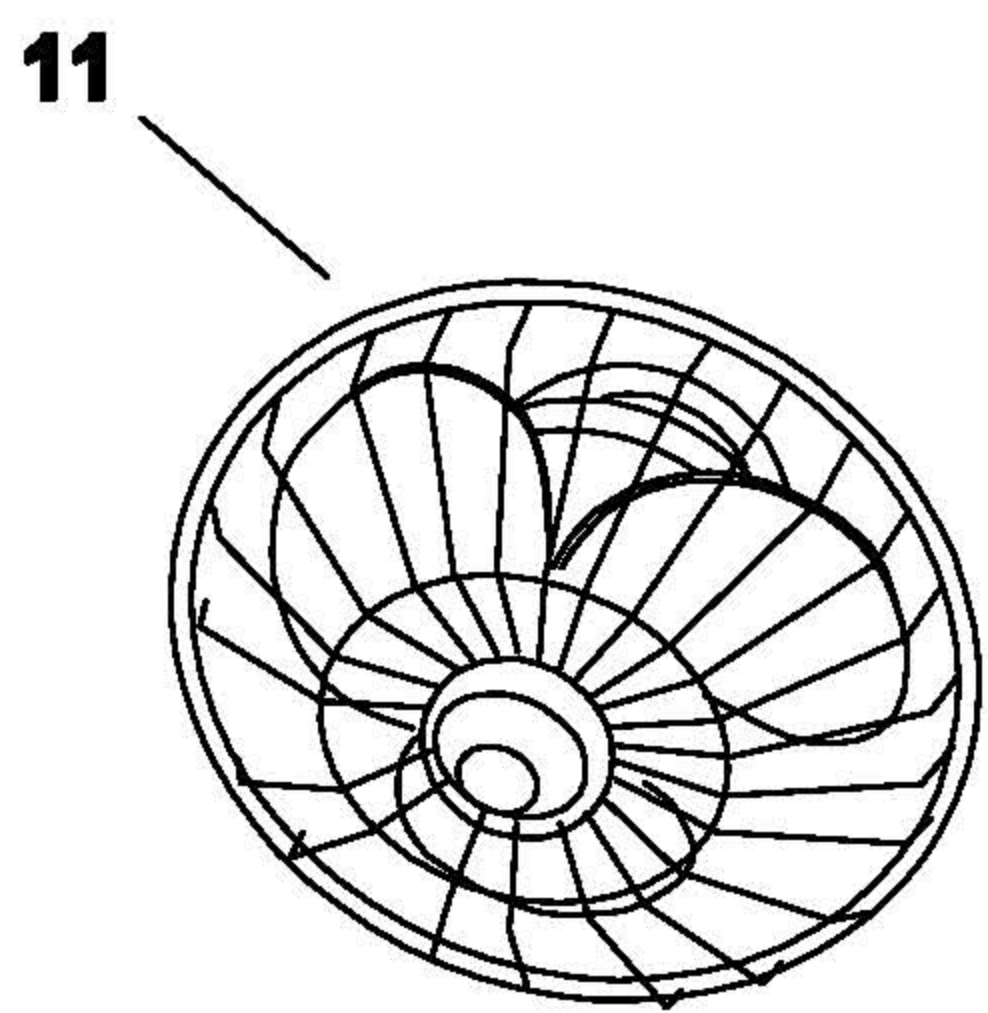


ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 EH 13167	BOTTOM COVER (COOLER	1	
02	CFS01 31225	SCREW	49	
03	CFW05 12032	WASHER	49	
04	156 EH 02142	COVER	1	
05	156 EH 11222	PLATE	1	
06	156 EH 11239	PLATE	1	
07	155 EH 11379	COVER	1	
08	155 EH 12626	COLLAR	3	
09	156 EH 13175	BOTTOM COVER (PUMP	1	

FIG 5071 OPERATOR'S CAB (1/2)



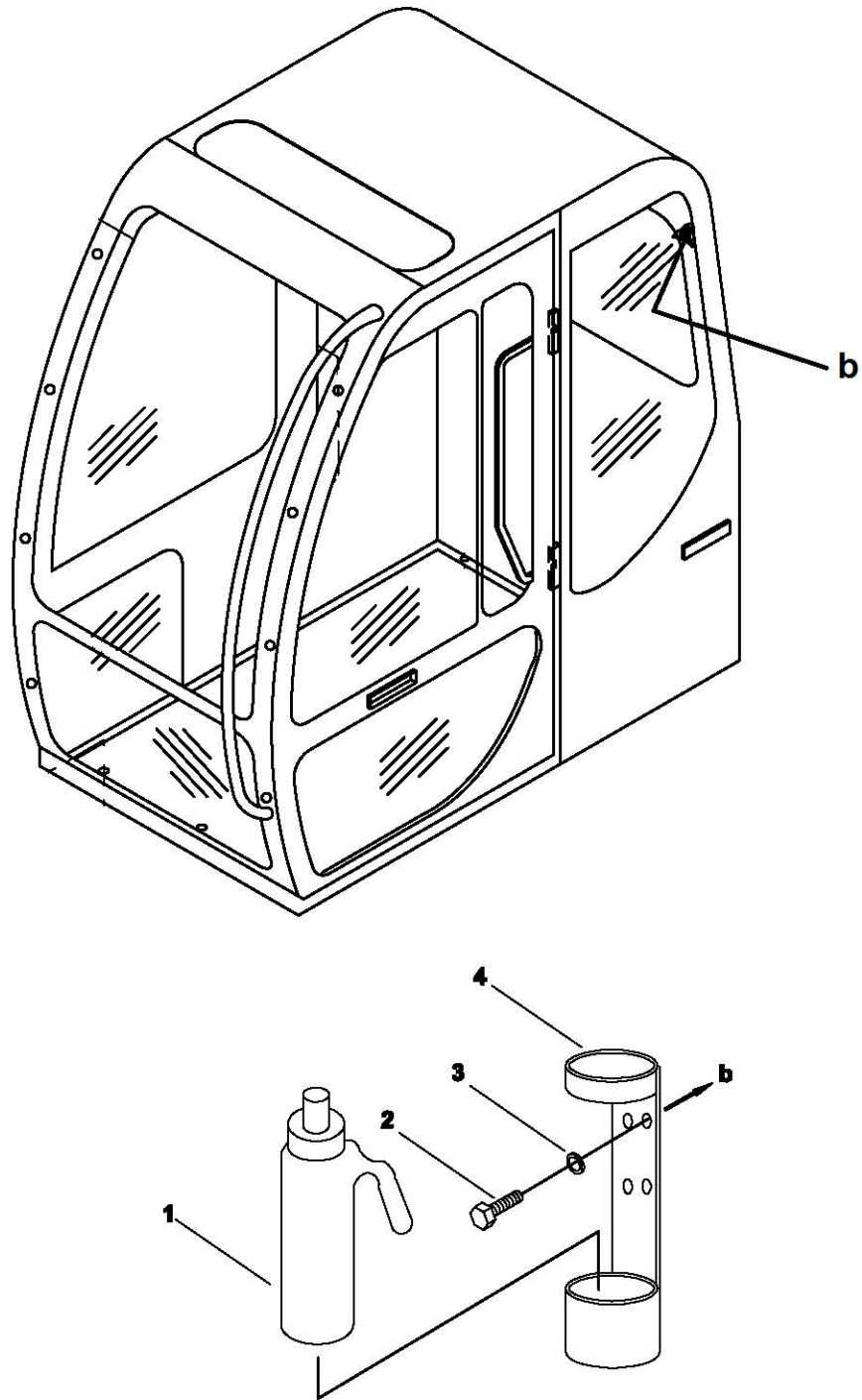
Detail A



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 5081 OPERATOR'S CAB (2/2)



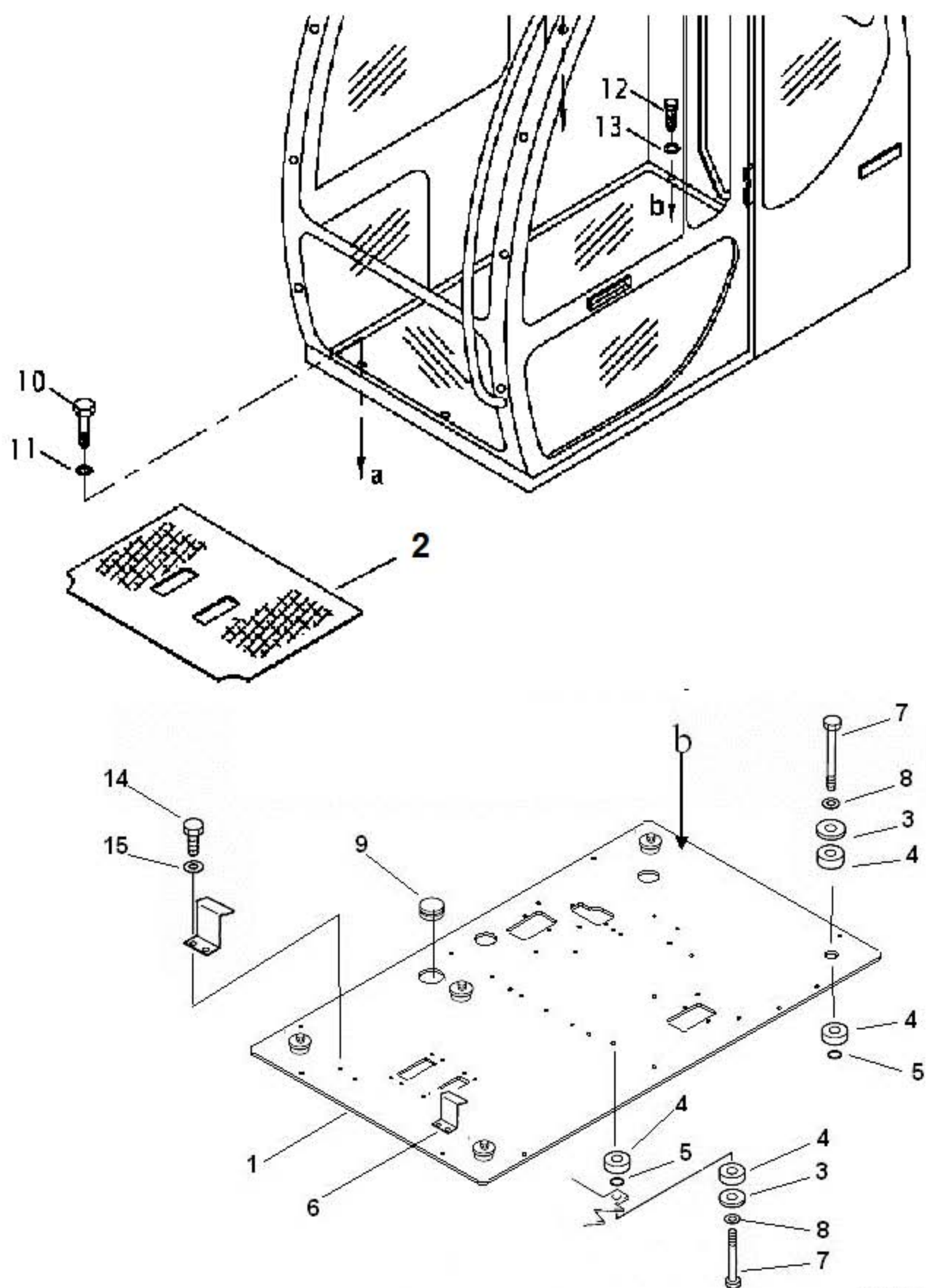
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OPERATOR'S CAB (2/2)

FIG NO.5081

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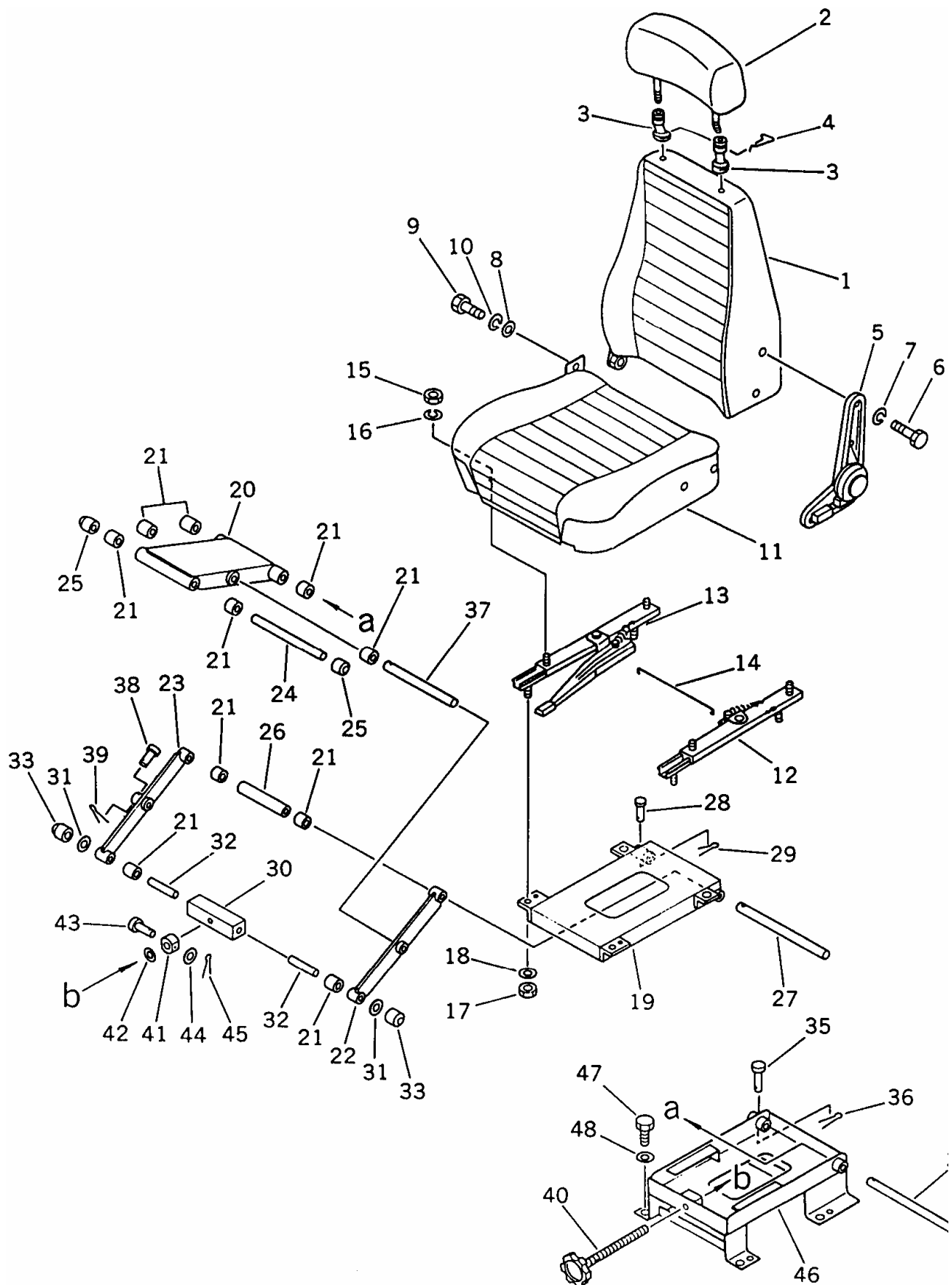
FIG: 5140 OPERATOR'S CAB, FLOOR FRAME



OPERATOR'S CAB,FLOOR FRAME**FIG NO.5140**

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	

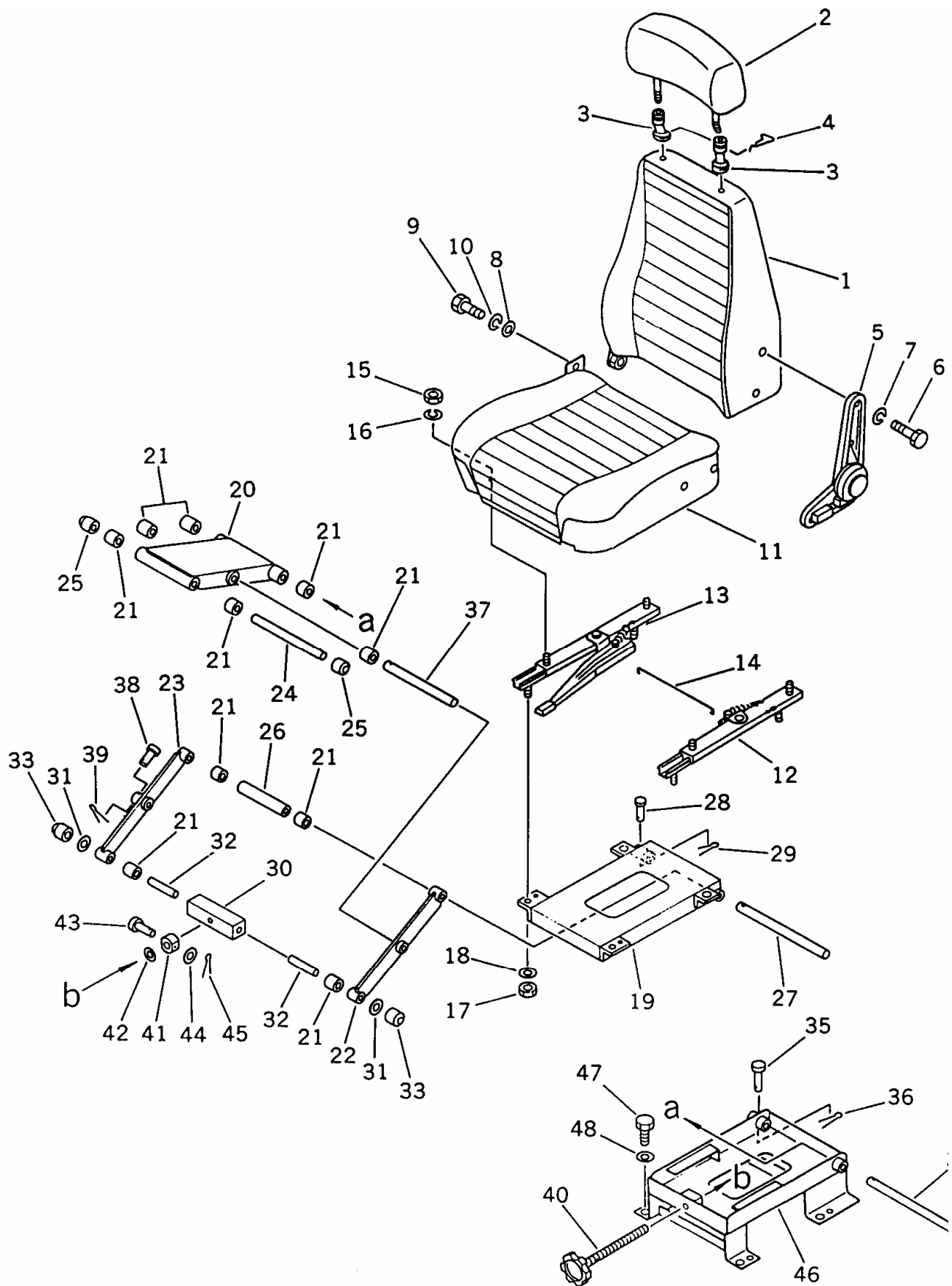
FIG: 5150 OPERATOR'S SEAT



OPERATOR'S SEAT
FIG NO.5150

ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
	155 OSB 0028	. SEAT ASSY	1	
01	155 OS 03018	.. CUSHION BACK	1	
02	155 OS 91211	.. REST HEAD	1	
03	*155 OS 71261	.. HOLDER	2	
04	*155 OS 11272	.. SPRING	2	
05	155 OS 91228	.. LEVER	1	
06	CFS01 31020	.. SCREW	4	
07	CFW01 11030	.. WASHER SPRING	4	
08	155 OS 11289	.. SPACER	1	
09	CFS01 31020	.. SCREW	1	
10	CFW01 11030	.. WASHER SPRING	1	
	155 OSB 0036	.. CUSHION ASSY	1	
11	*155 OS 03001	... CUSHION	1	
12	*155 OS 91236	... ADJUSTER	1	
13	*155 OS 91244	... ADJUSTER	1	
14	155 OS 11256	... BAR	1	
15	CFN01 21211	... NUT	4	
16	CFW01 11236	... WASHER SPRING	4	
17	CFN01 21211	. NUT	4	
18	CFW05 12032	. WASHER	4	
	155 OS 02013	. STAND ASSY	1	
19	155 OS 03034	.. BRACKET	1	
20	155 OS 03059	.. LINK	1	
21	155 OS 91699	.. BUSHING	10	
22	155 OS 03067	.. LINK	1	
23	155 OS 03075	.. LINK	1	
24	155 OS 11523	.. PIN	1	
25	155 OS 11701	.. ROLLER	2	
26	155 OS 11661	.. COLLAR	1	
27	155 OS 11515	.. PIN	1	
28	155 OS 11734	.. PIN	1	
29	CFP01 01610	.. PIN COTTER	1	
30	155 OS 11678	.. BAR	1	
31	155 OS 11718	.. SHIM 0.5MM	20	
32	155 OS 11726	.. PIN	2	
33	155 OS 11701	.. ROLLER	2	
34	155 OS 11491	.. PIN	1	
35	155 OS 11734	.. PIN	1	
36	CFP01 01610	.. PIN COTTER	1	
37	155 OS 11507	.. PIN	1	
38	155 OS 11734	.. PIN	1	

FIG: 5150 OPERATOR'S SEAT



OPERATOR'S SEAT

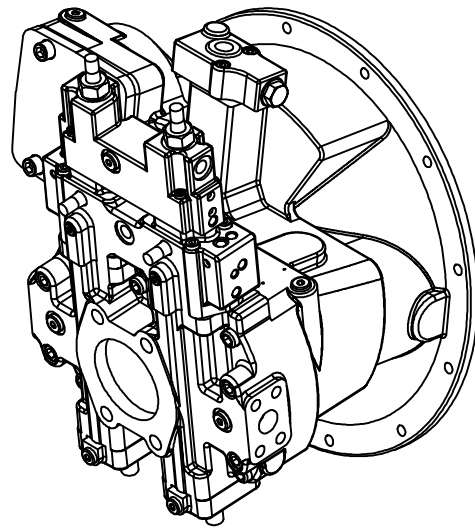
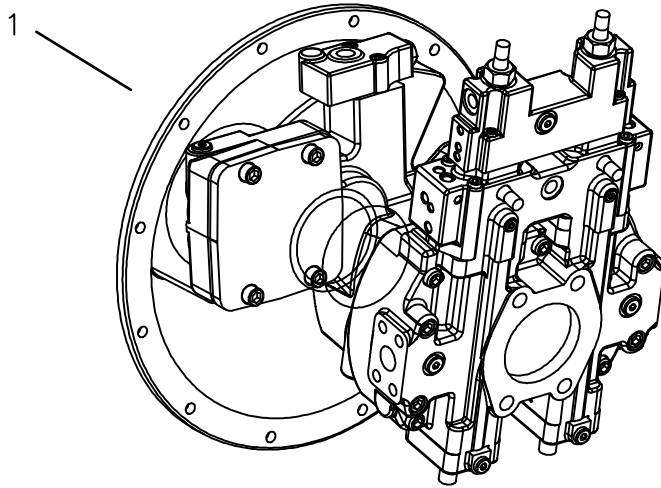
FIG NO.5150

ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
39	CFP01 01610	..PIN COTTER	1	
40	155 OS 03042	..KNOB	1	
41	155 OS 11686	..NUT	1	
42	CFW05 14045	..WASHER	1	
43	155 OS 11556	..PIN	1	
44	CFW03 10616	..WASHER	1	
45	CFP01 01610	..PIN COTTER	1	
46	155 OS 03026	..BRACKET	1	
47	CFS01 31230	SCREW	4	
48	CFW05 12032	WASHER	4	

LEFT BLANK

VI. WORK EQUIPMENT CONTROL SYSTEM

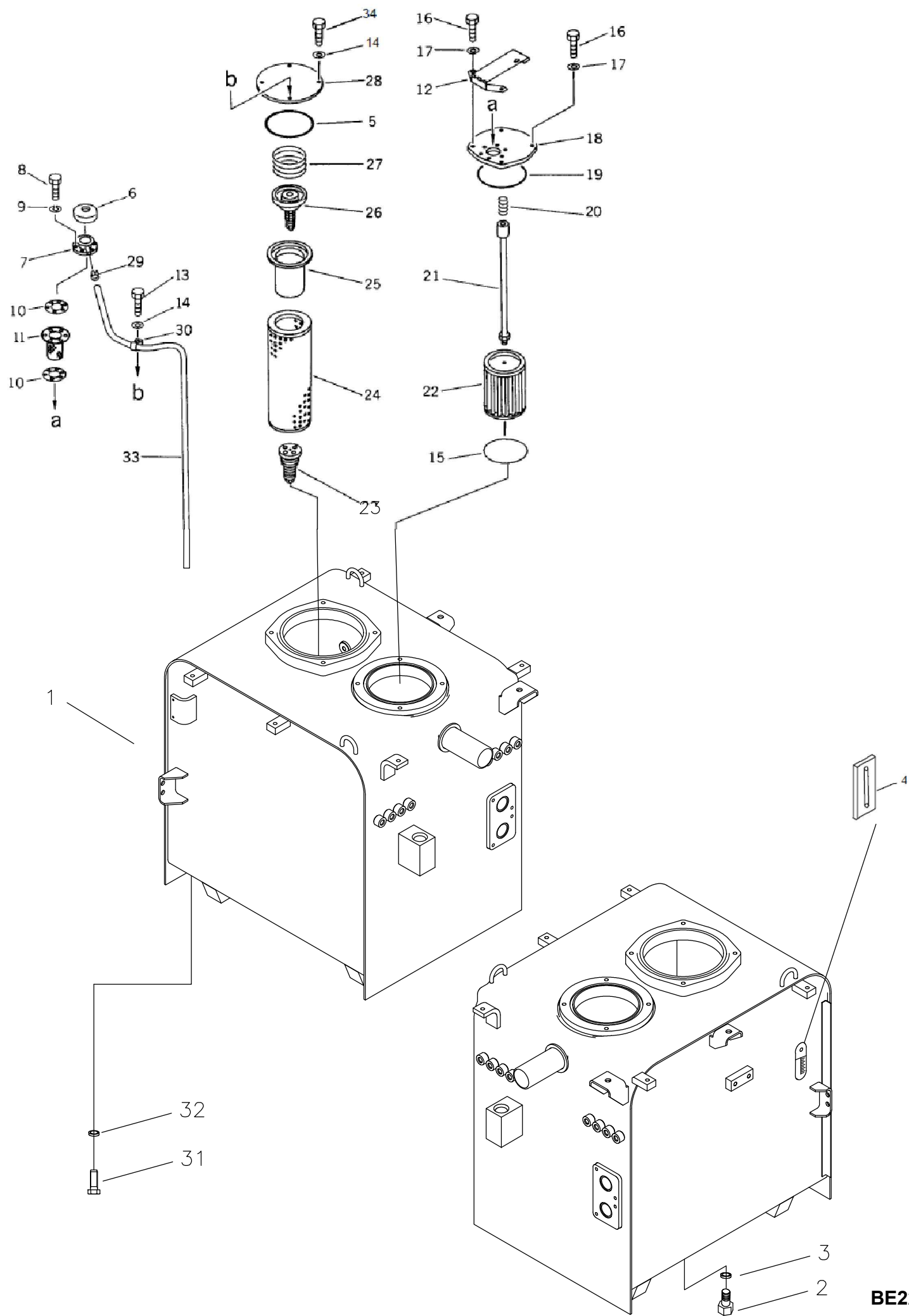
FIG. 6000 HYDRAULIC PUMP



HYDRAULIC PUMP**FIG NO.6000**

ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	#156 HM 03003	HYDRAULIC PUMP ASSY	1	

FIG. 6080 HYDRAULIC TANK

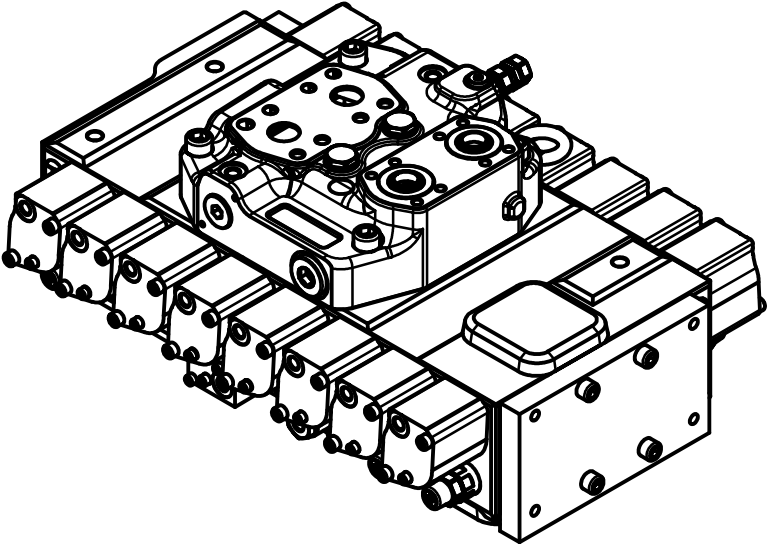
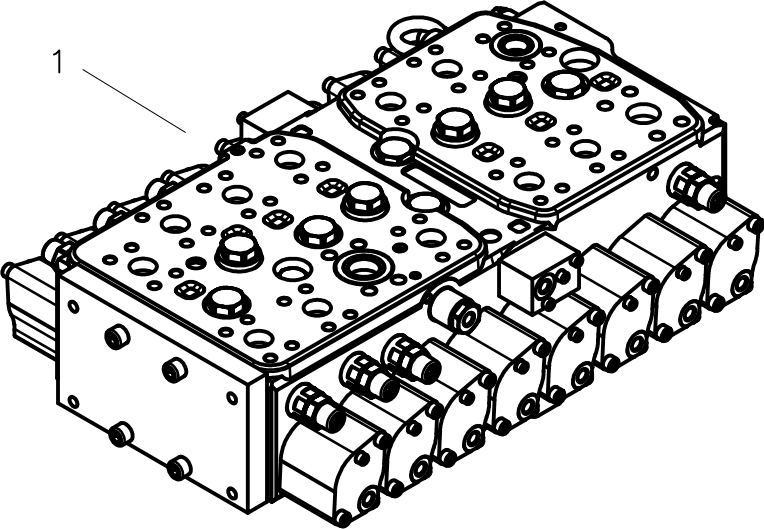


HYDRAULIC OIL TANK

FIG NO.6080

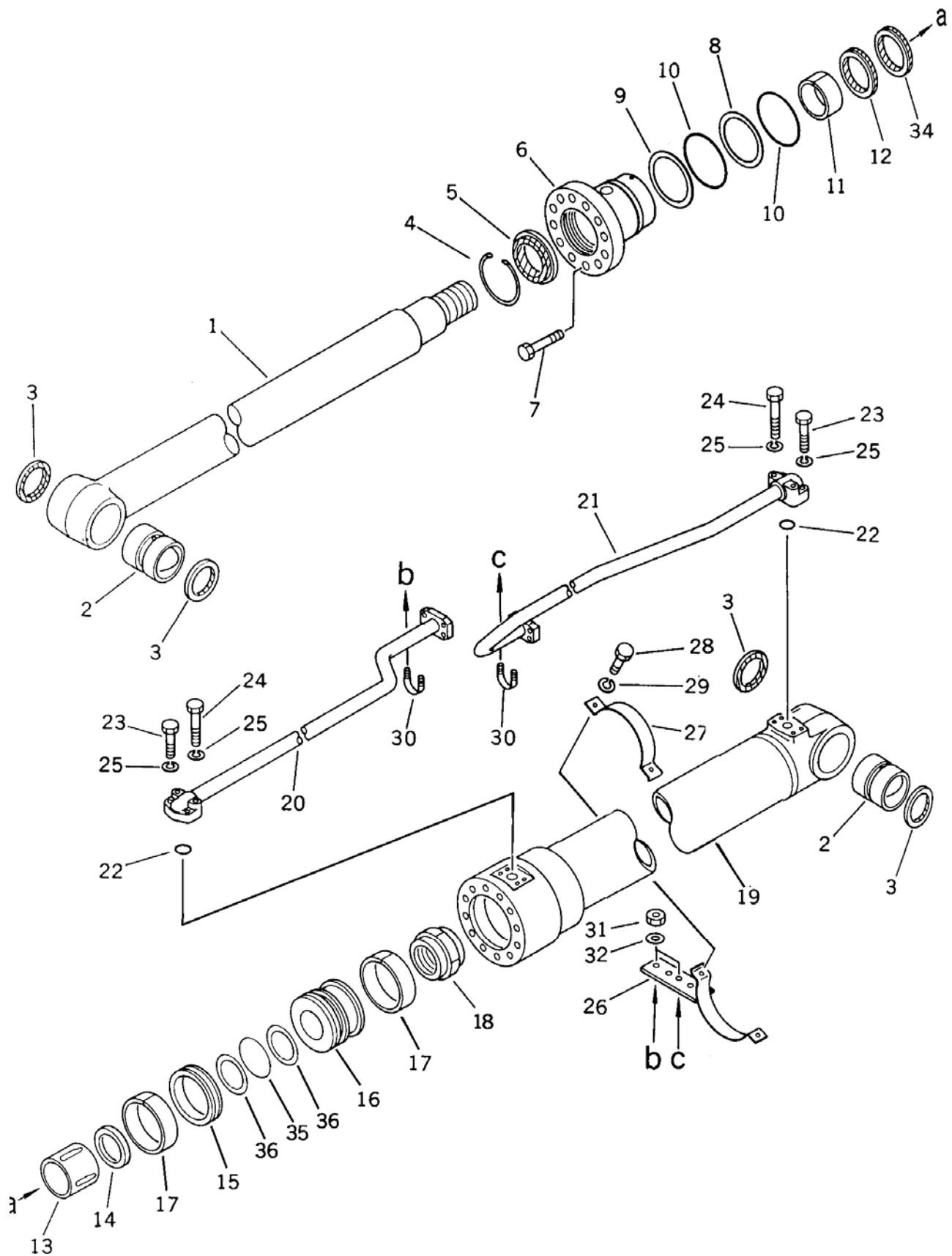
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
	156 HS 01068	HYDRAULIC TANK ASSY	1	
01	156 HS 02056	TANK, HYDRAULIC	1	
02	CPL03 13620	. PLUG	1	
03	CHS03 13634	. O RING	1	
04	762 HS 03279	. LEVEL INDICATOR	1	
05	CHS01 15180	. O RING	1	
06	155 HS 02058	. CAP ASSY	1	
07	155 HS 02041	. FILLER, NECK	1	
08	CFS15 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	155 HS 02106	. 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	

FIG. 6090 CONTROL VALVE



ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 HM 03028	CONTROL VALVE	1	

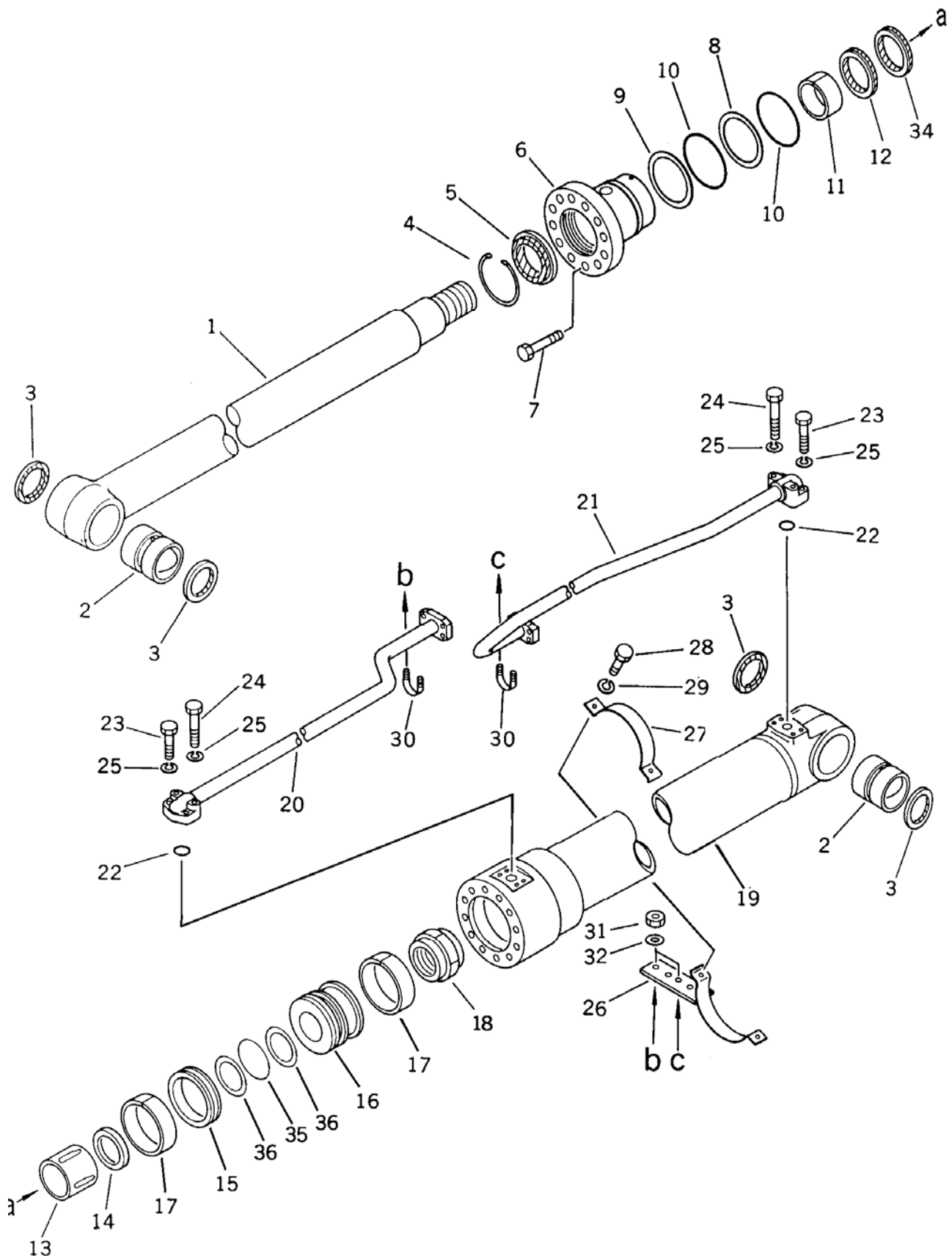
FIG: 6130 BOOM CYLINDER



BOOM CYLINDER
FIG NO.6130

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	

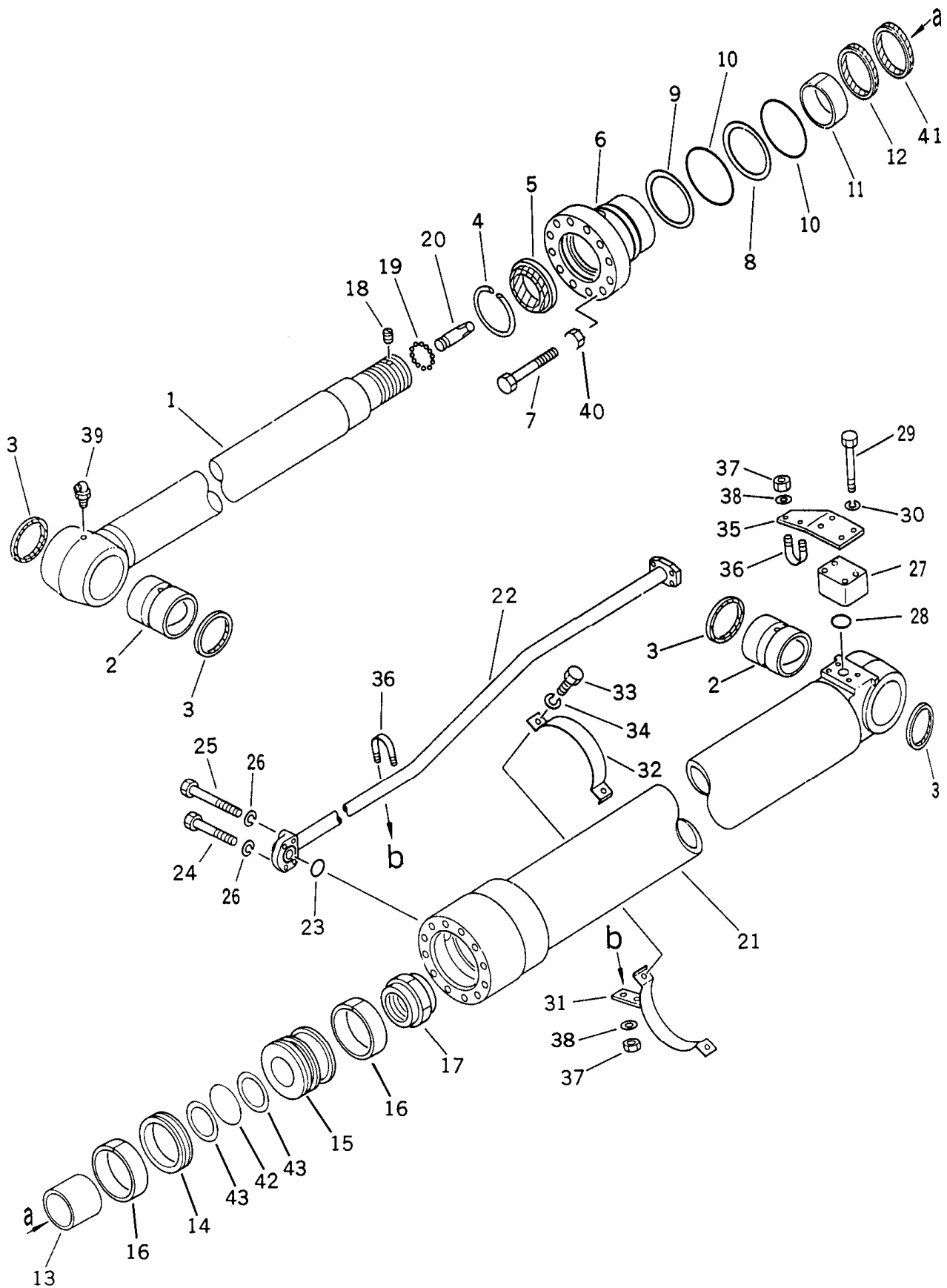
FIG: 6130 BOOM CYLINDER



BOOM CYLINDER**FIG NO.6130**

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

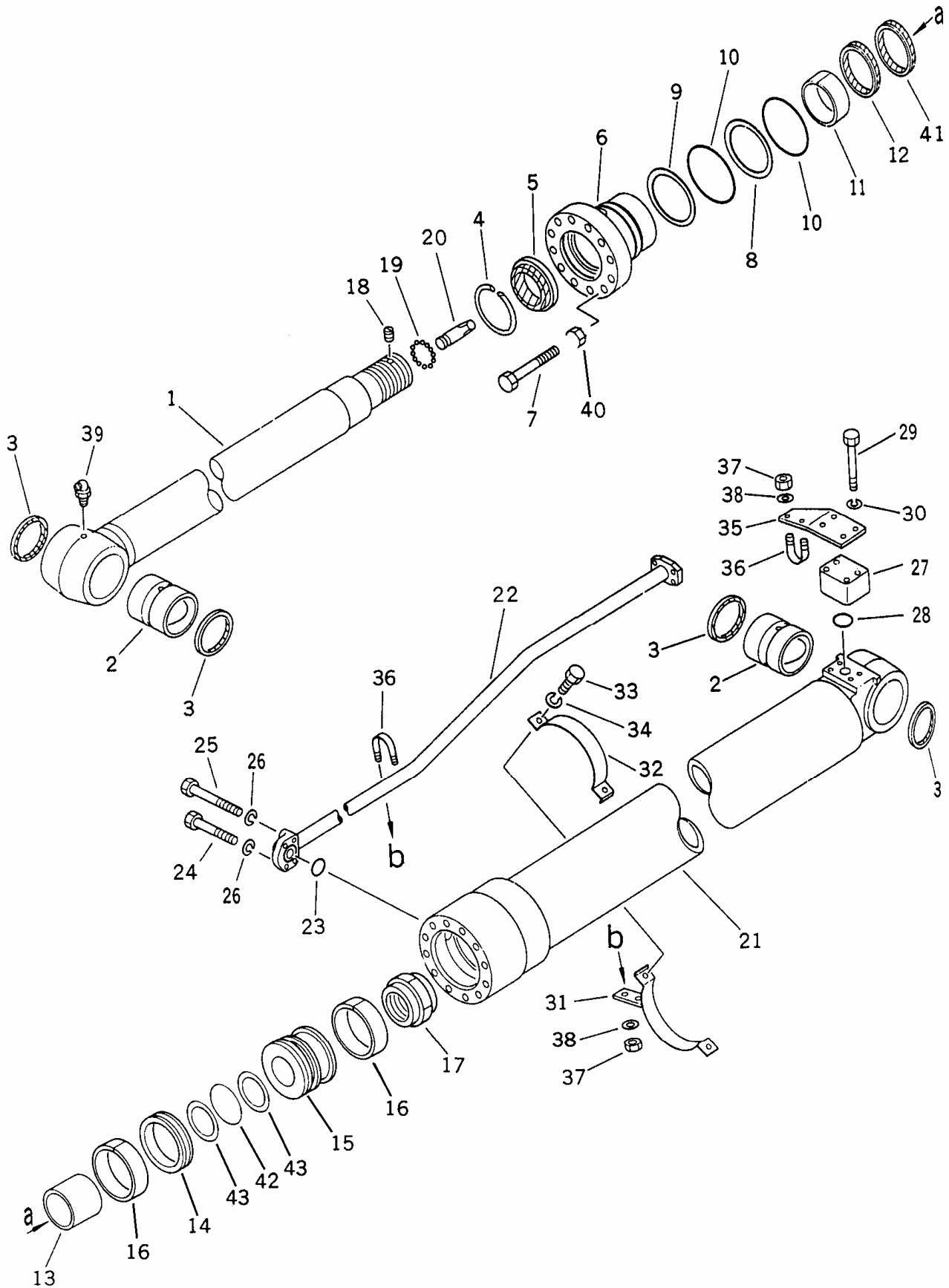
FIG: 6140 ARM CYLINDER



ARM CYLINDER
FIG NO.6140

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

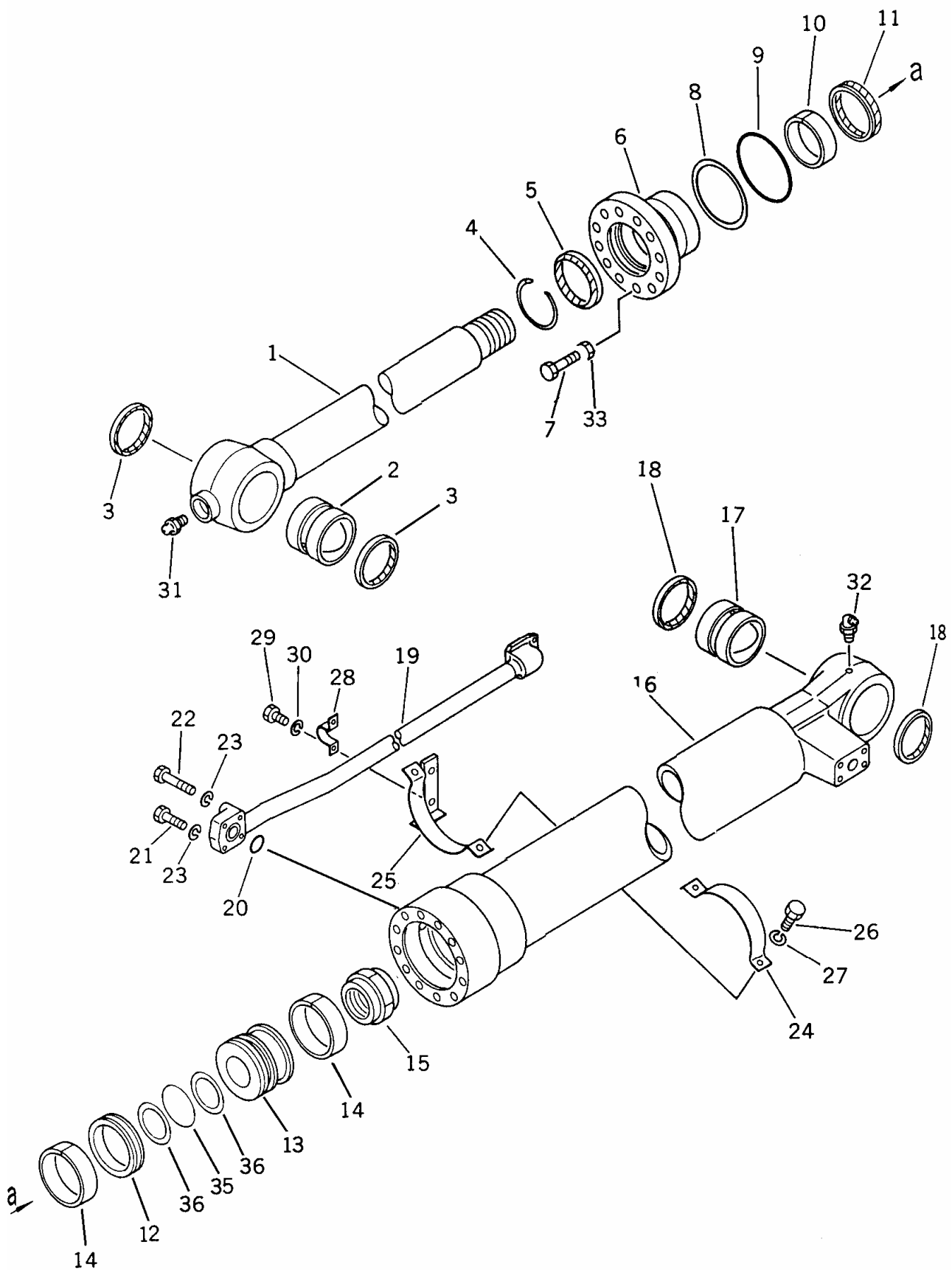


ARM CYLINDER

FIG NO.6140

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	

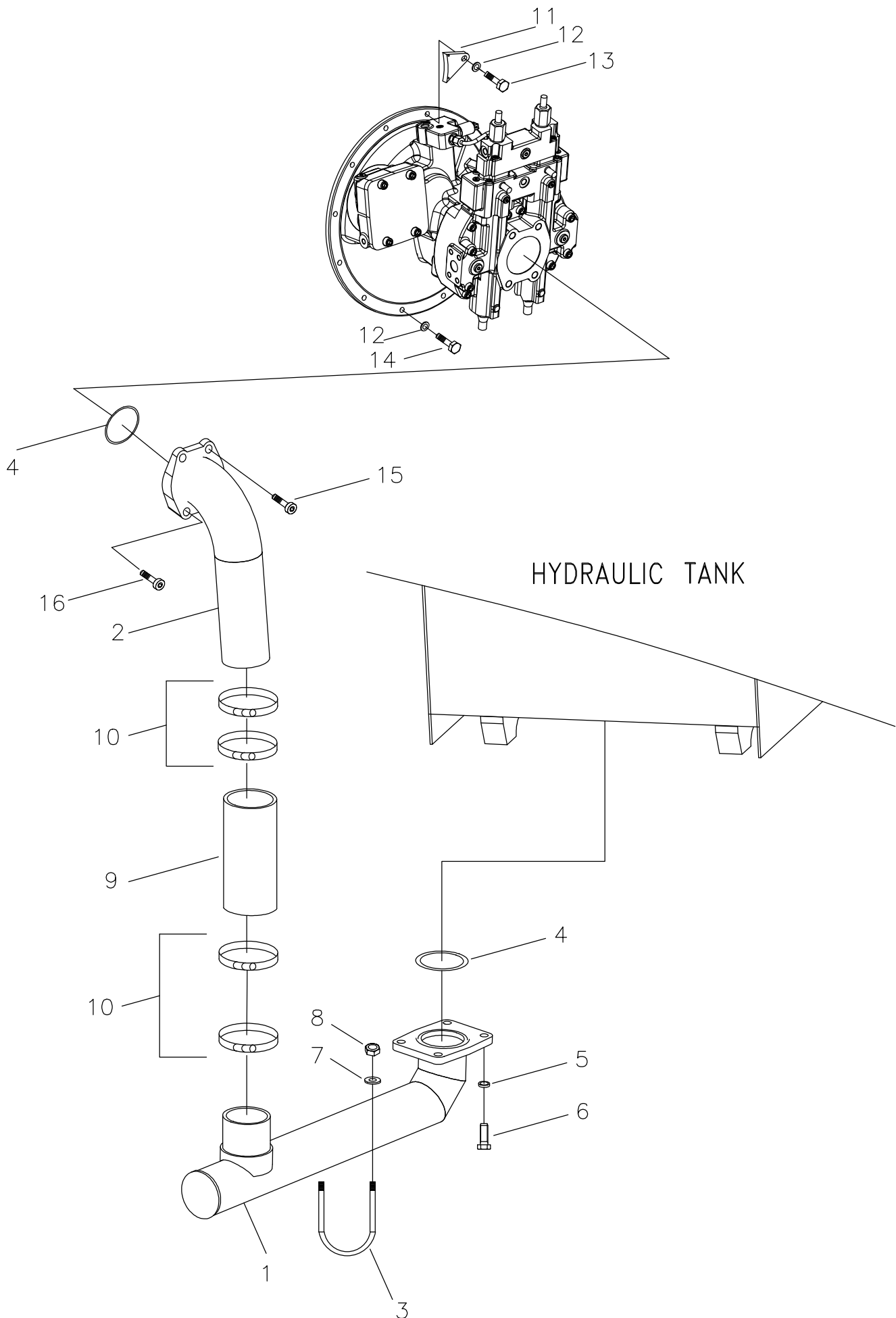
FIG: 6150 BUCKET CYLINDER



BUCKET CYLINDER
FIG NO.6150

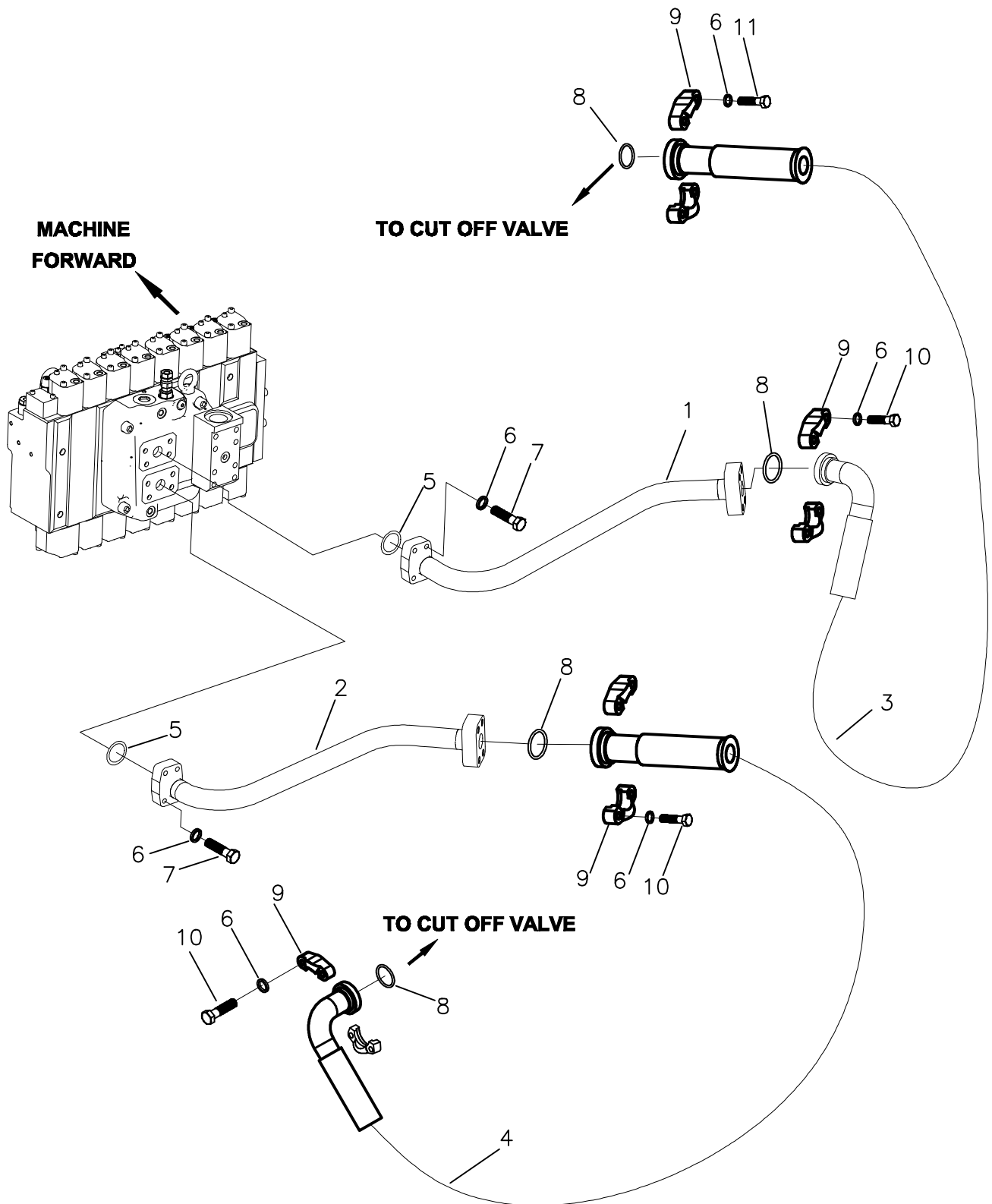
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
	155 HC 09054	BUCKET CYLINDER ASSY	1	
01	155 HC 09176	.ROD PISTON	1	
02	155 HC 11905	.BUSHING	1	
03	155 HC 91934	.SEAL DUST	2	K3
04	CFL10 13104	.RING SNAP	1	
05	155 HC 61226	.SEAL DUST	1	K3
06	155 HC 19188	.HEAD CYLINDER	1	
07	CFB01 21660	.BOLT	12	
08	155 HC 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)



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)

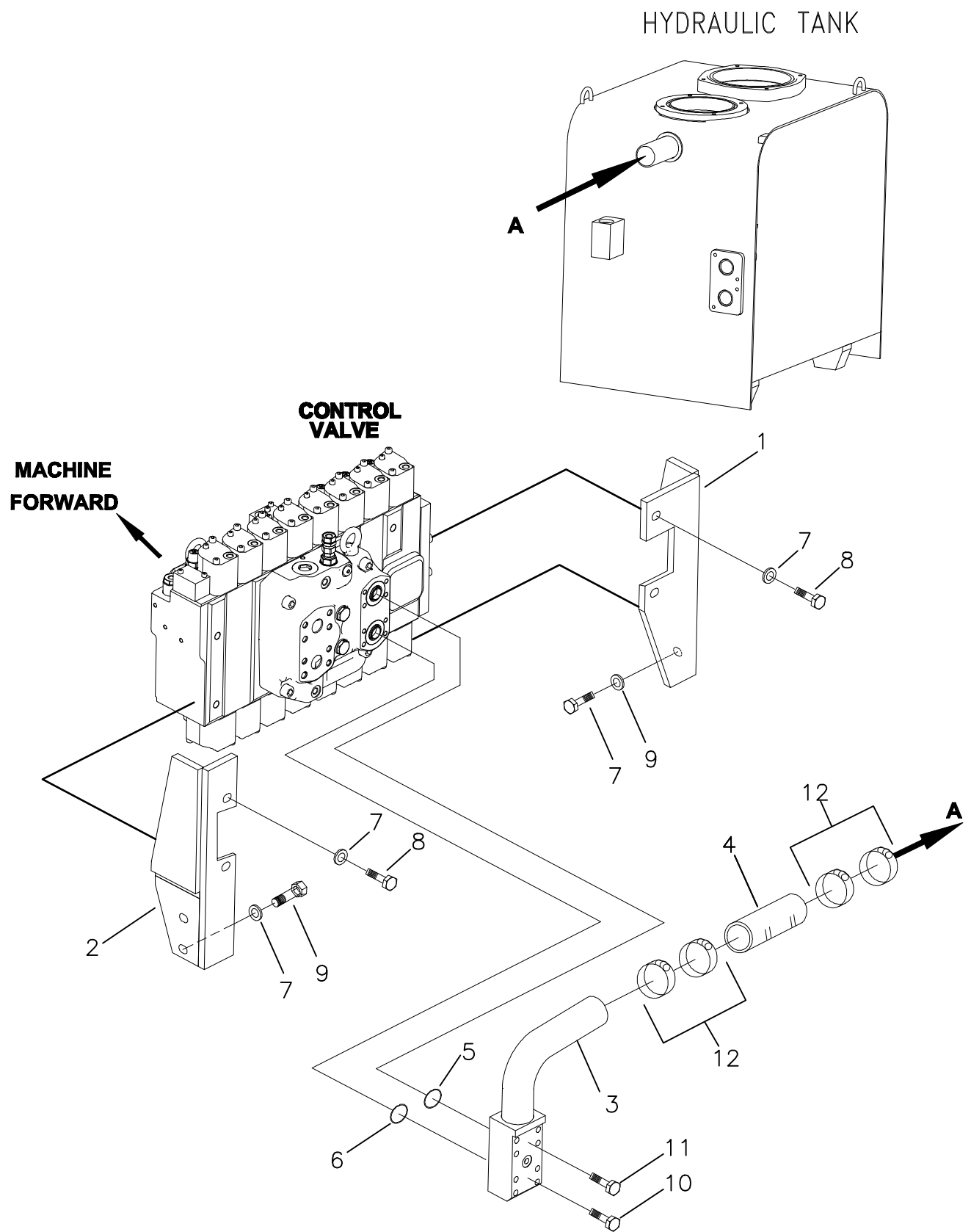


HYDRAULIC PIPING (CONTROL VALVE TO PUMP)

FIG NO.6170

[illegible]

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



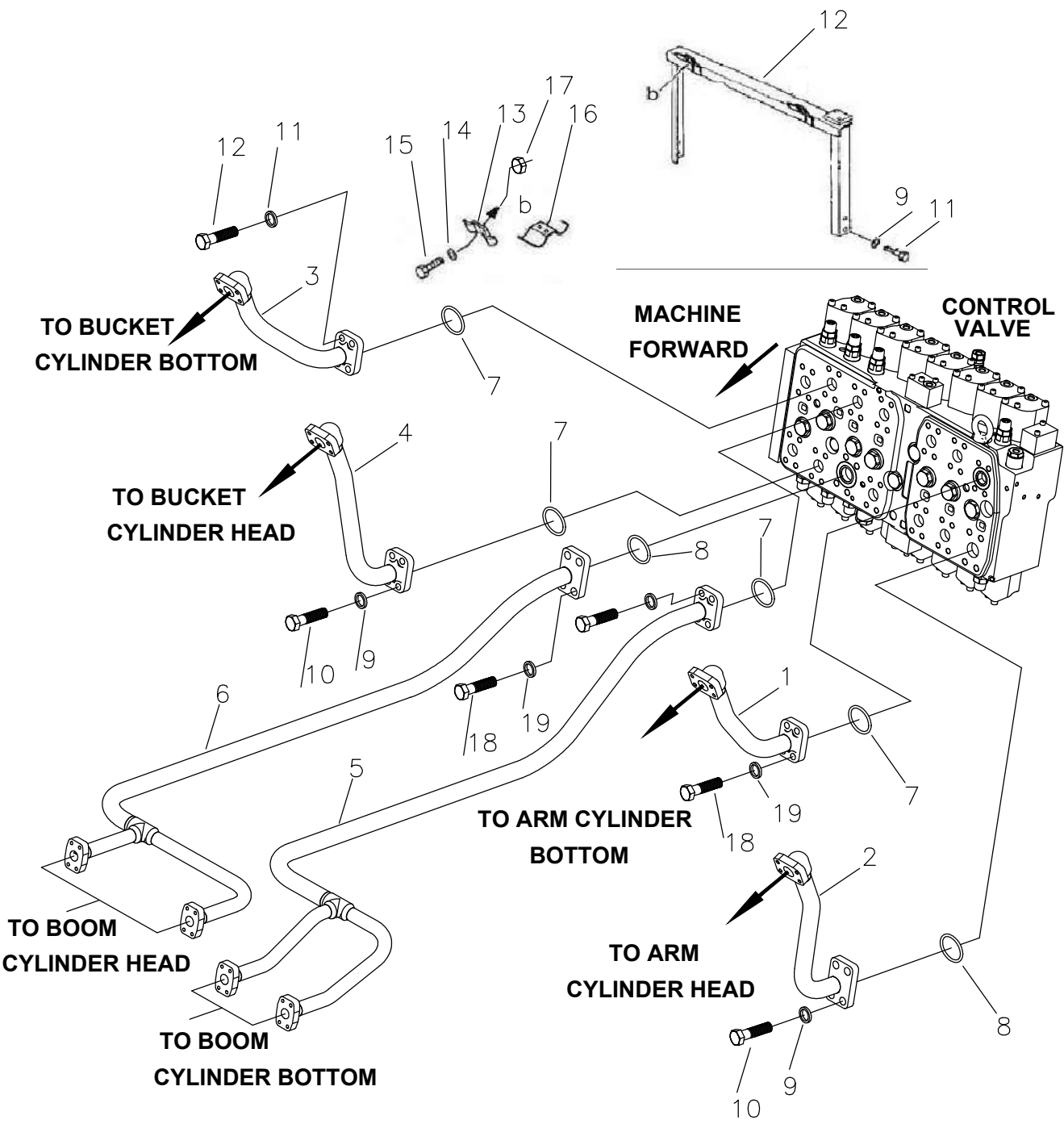
BE220G

HYDRAULIC PIPING (CONTROL VALVE TO TANK)

FIG NO.6190

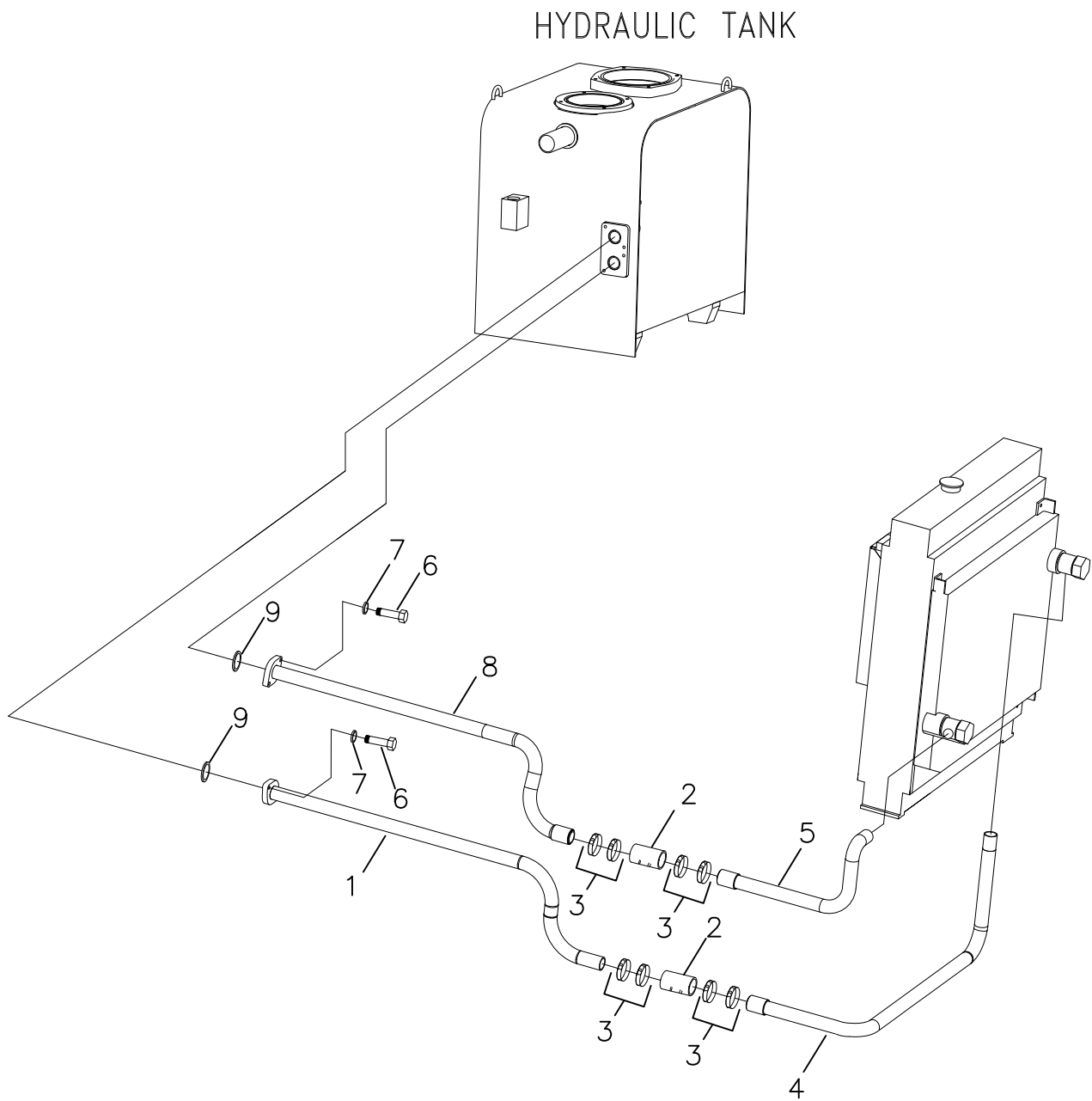
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 PM 02654	BRACKET	1	
02	156 PM 02646	BRACKET	1	
03	156 PM 02605	TUBE ASSY.	1	
04	156 PM 90572	HOSE	1	
05	CHS01 13038	O-RING	1	
06	CHS01 13045	O-RING	1	
07	CFW05 16045	WASHER	7	
08	CFS01 31635	SCREW	3	
09	CFS01 31640	SCREW	4	
10	CFS13 12070	SCREW, ALLEN	4	
11	CFS13 11070	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	CFS01 31235	SCREW	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

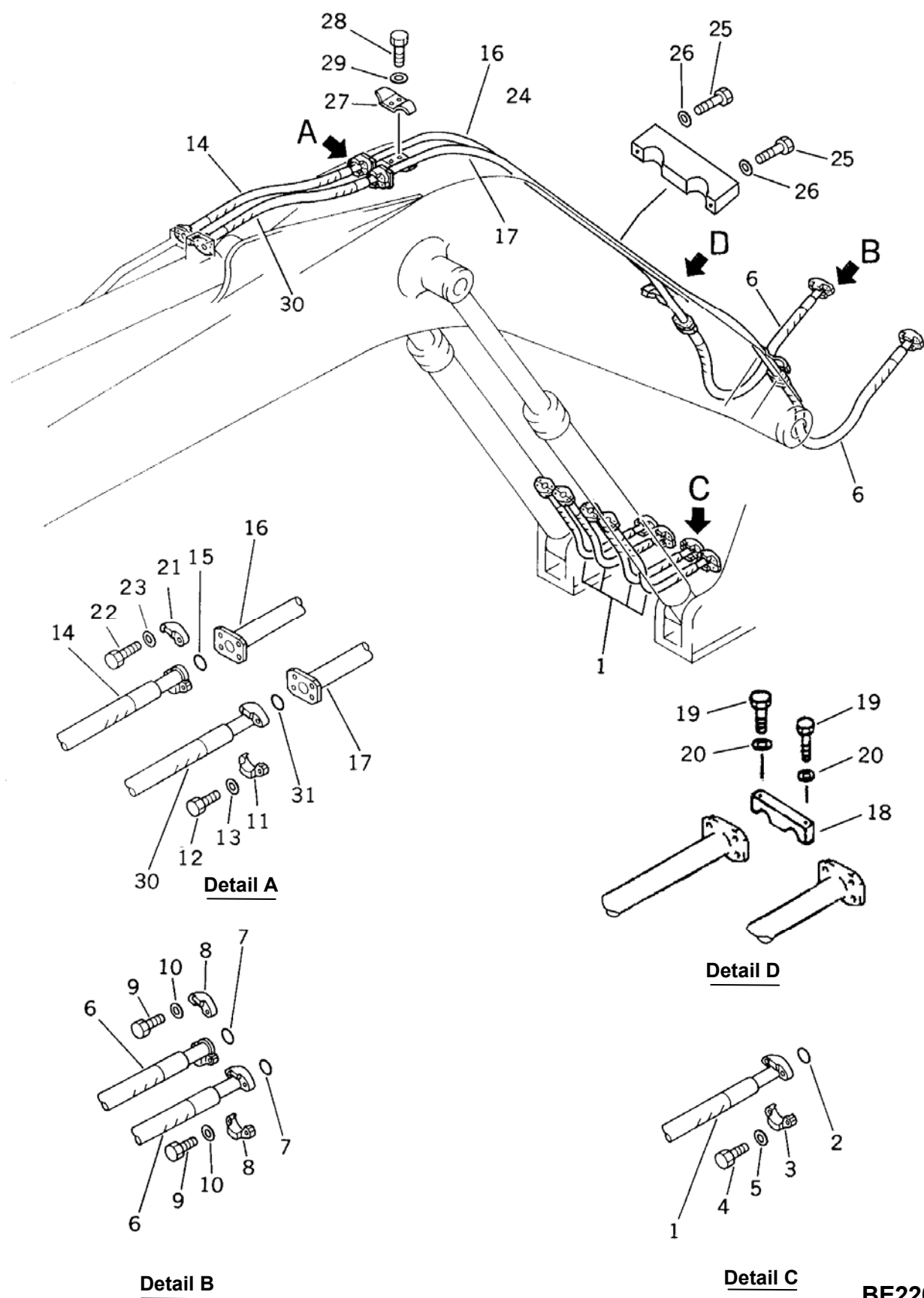


OIL COOLER PIPING

FIG NO.6210

ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 EC 03077	PIPE ASSY.	1	
02	155 PH 93752	HOSE	2	
03	CCC01 08020	CLAMP	8	
04	156 EC 03085	PIPE ASSY.	1	
05	156 EC 03093	PIPE ASSY.	1	
06	CFS01 31035	SCREW	4	
07	CFW05 10032	WASHER	4	
08	156 EC 03109	PIPE ASSY.	1	
09	CHS01 12065	O-RING	2	

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

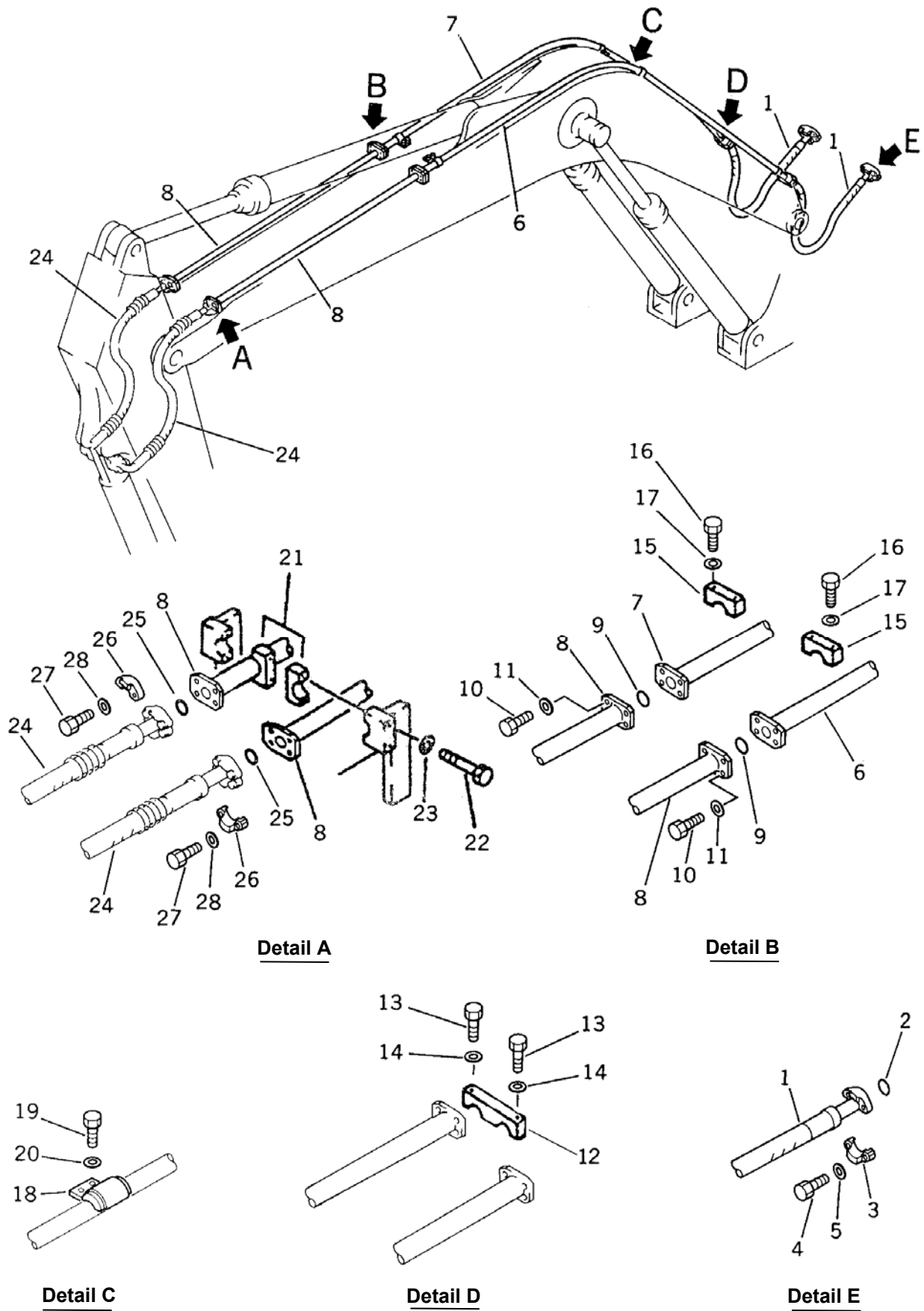


HYDRAULIC PIPING (BOOM AND ARM CYLINDER LINE)

FIG NO.6220

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	10165	CLAMP	2	
19	CFB01	21250	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)



HYDRAULIC PIPING (BUCKET CYLINDER LINE)

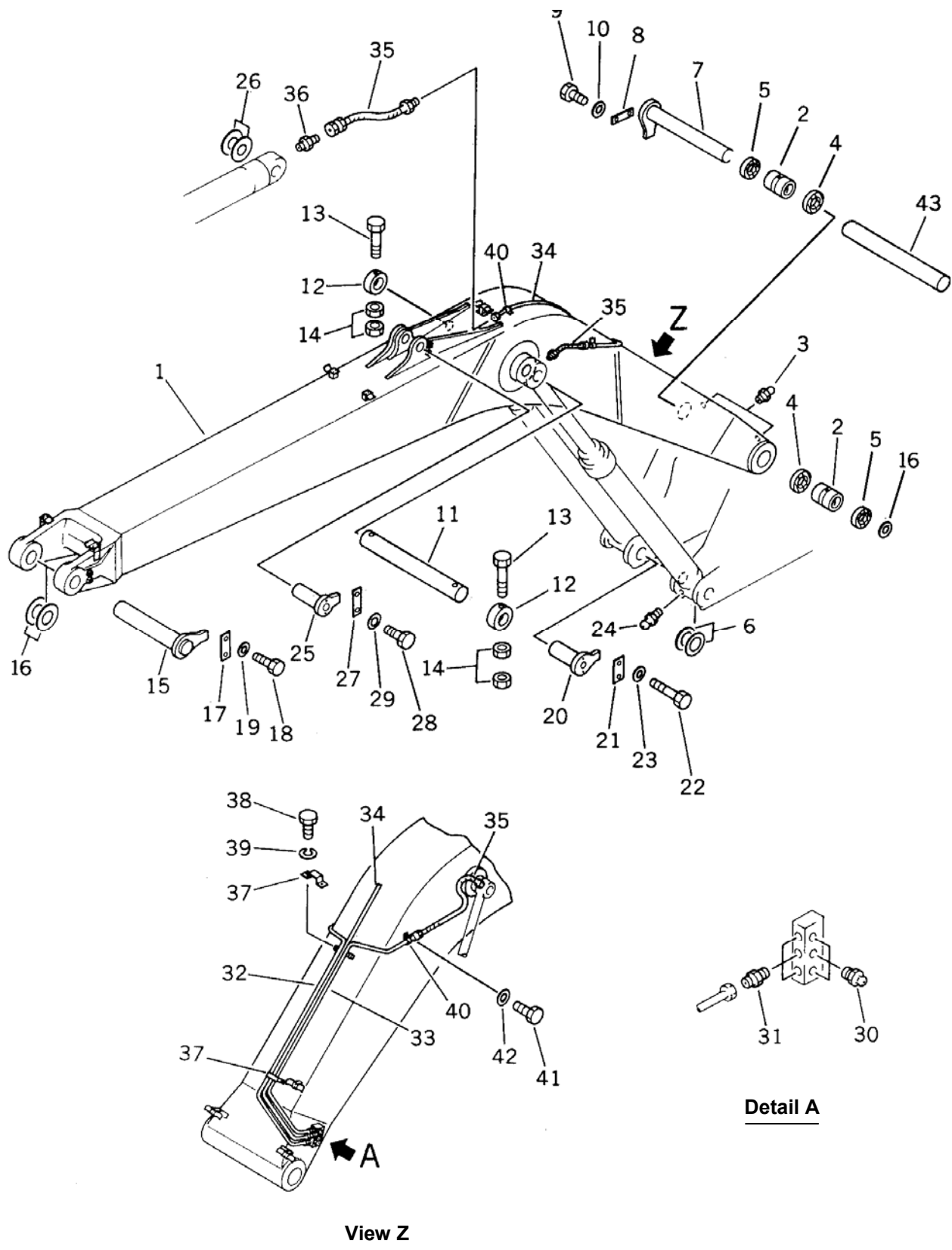
FIG NO.6230

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

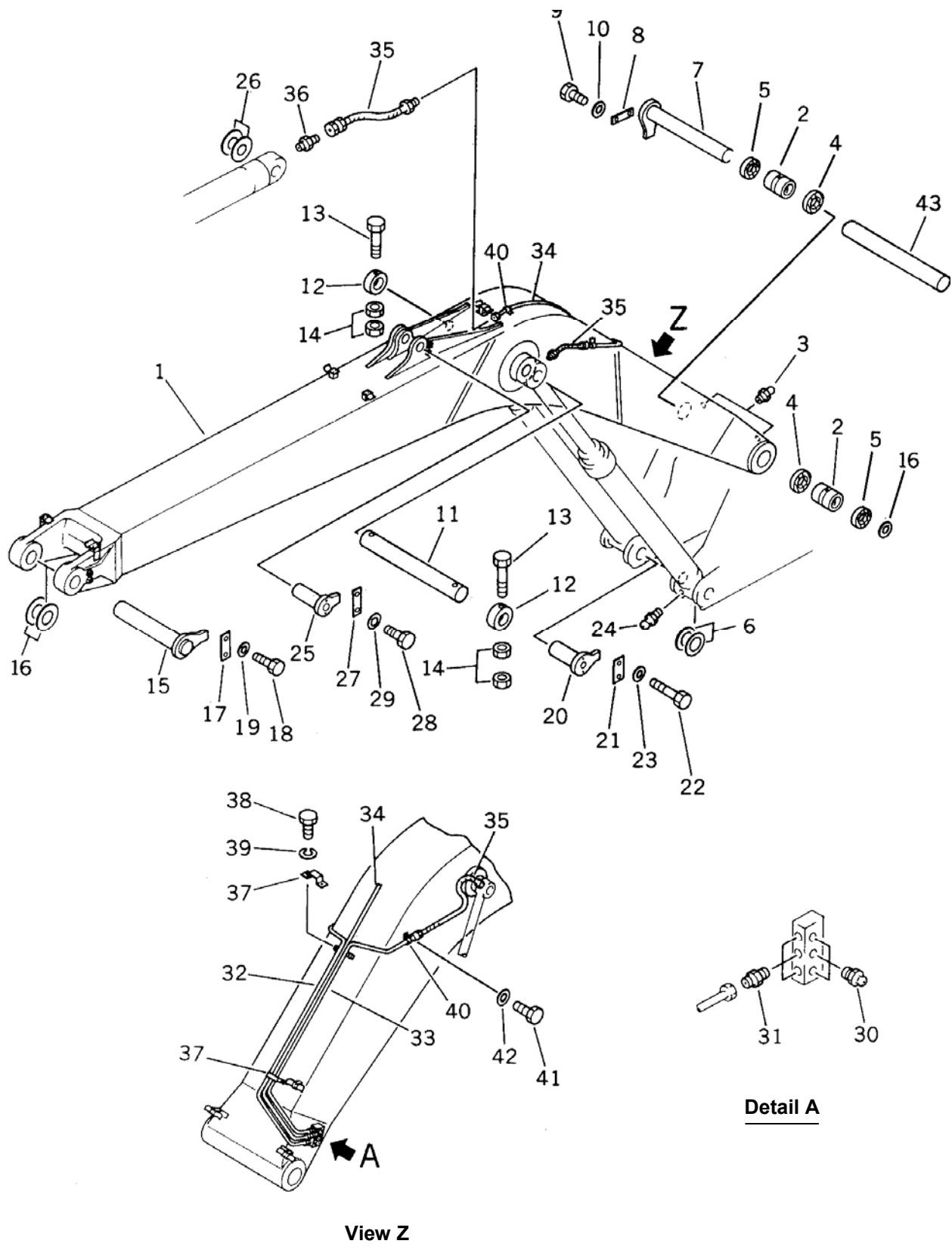
FIG: 7000 BOOM



BOOM**FIG NO.7000**

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

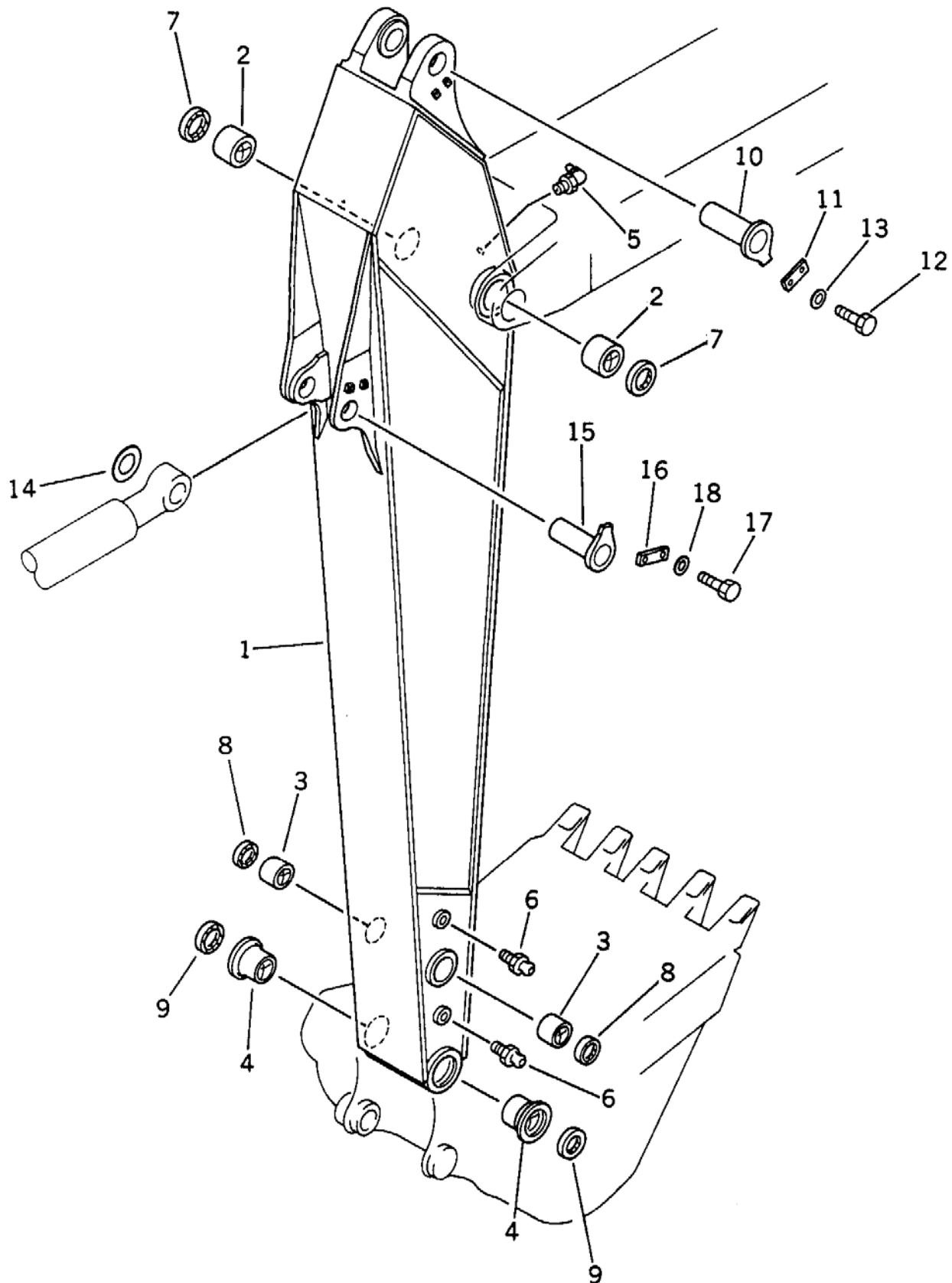


BOOM

FIG NO.7000

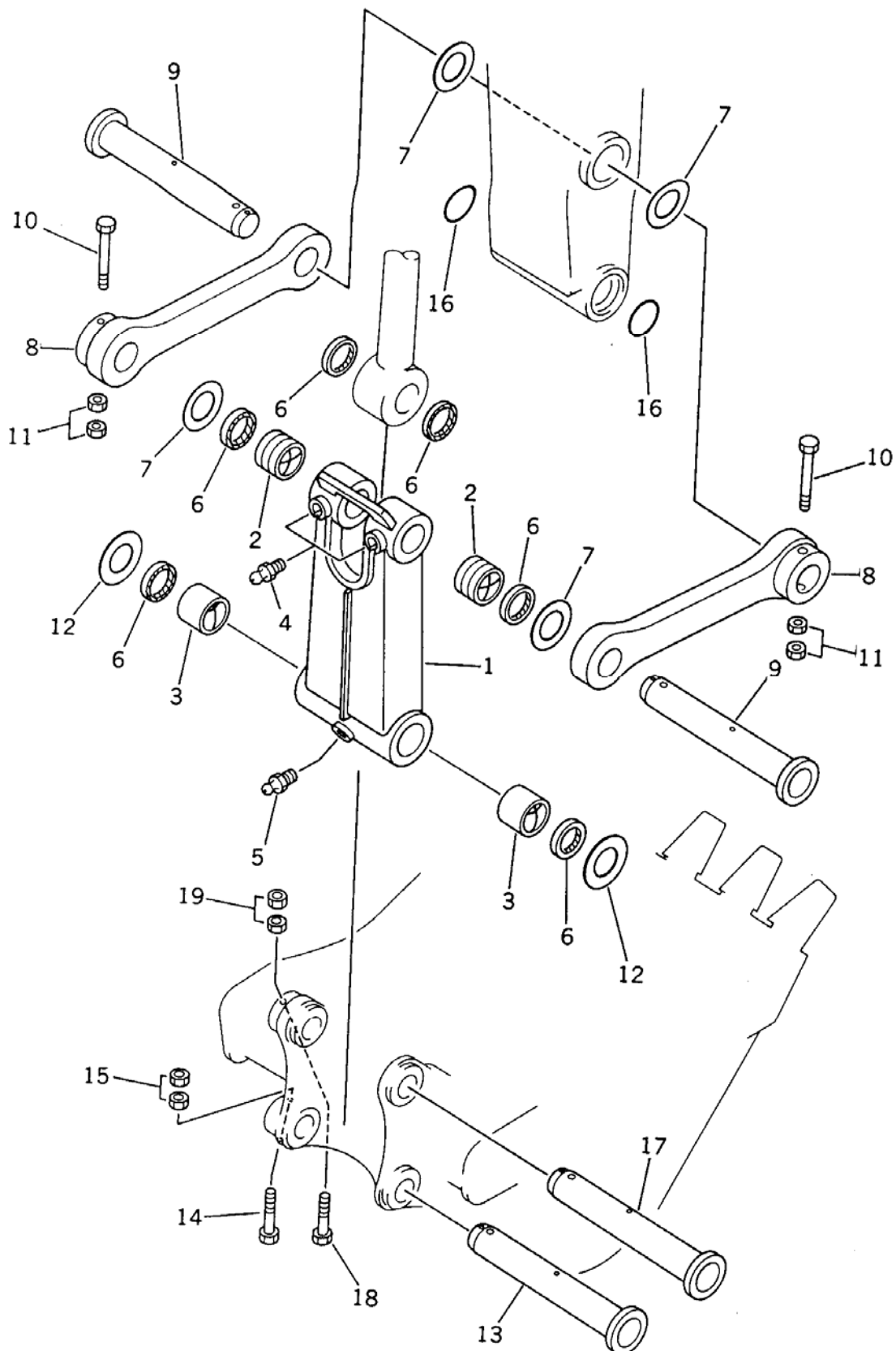
[illegible]

FIG: 7010 ARM



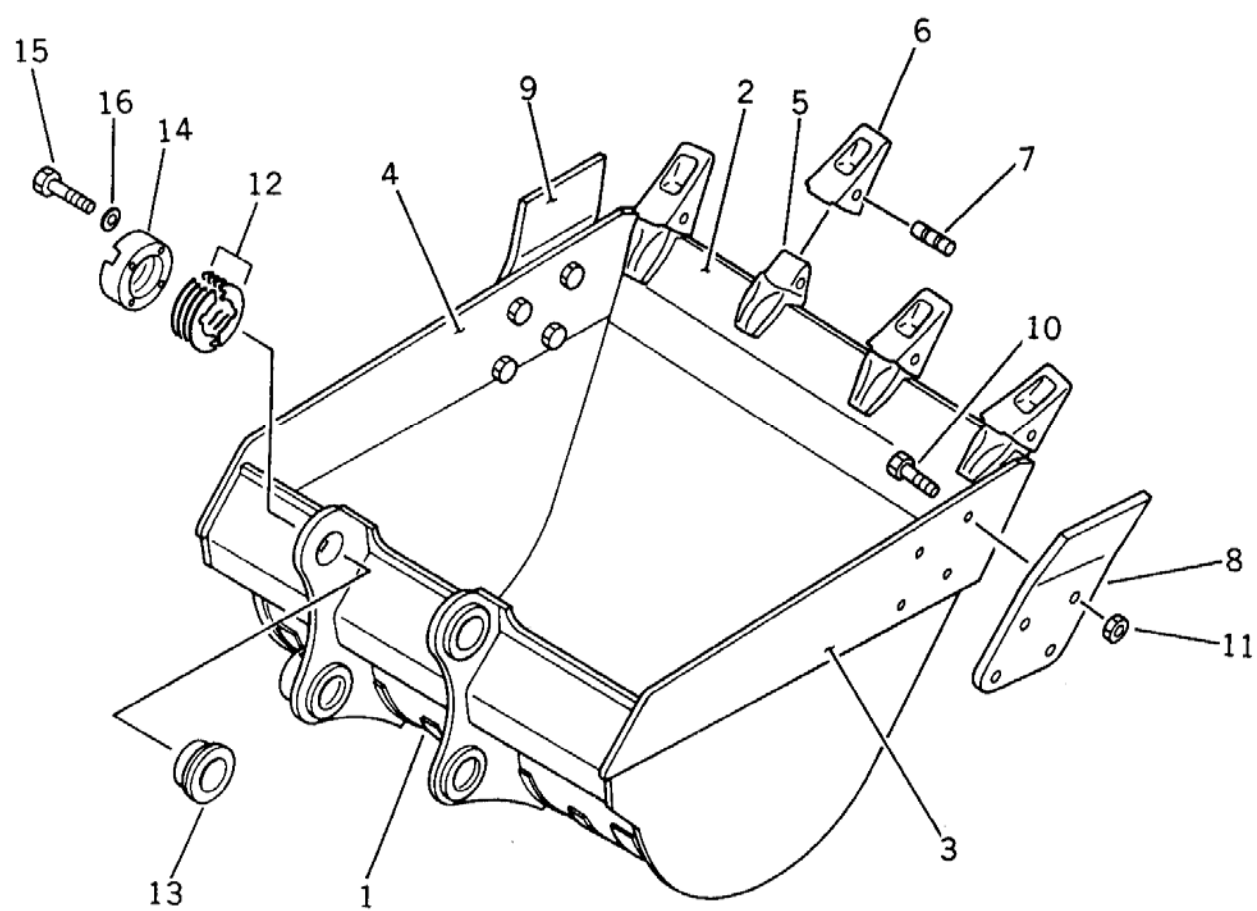
ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	*155 BH 02593	ARM 2.5 M	1	
02	155 BH 51825	BUSHING	2	
03	155 BH 51785	BUSHING	2	
04	155 BH 51817	BUSHING	2	
05	CLN01 10900	GREASE NIPPLE	1	
06	CLN01 10000	FITTING GREASE	2	
07	CSD01 00090	SEAL DUST	2	
08	155 HC 91561	SEAL DUST	2	
09	155 BH 93013	SEAL DUST	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



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 10675	. 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	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



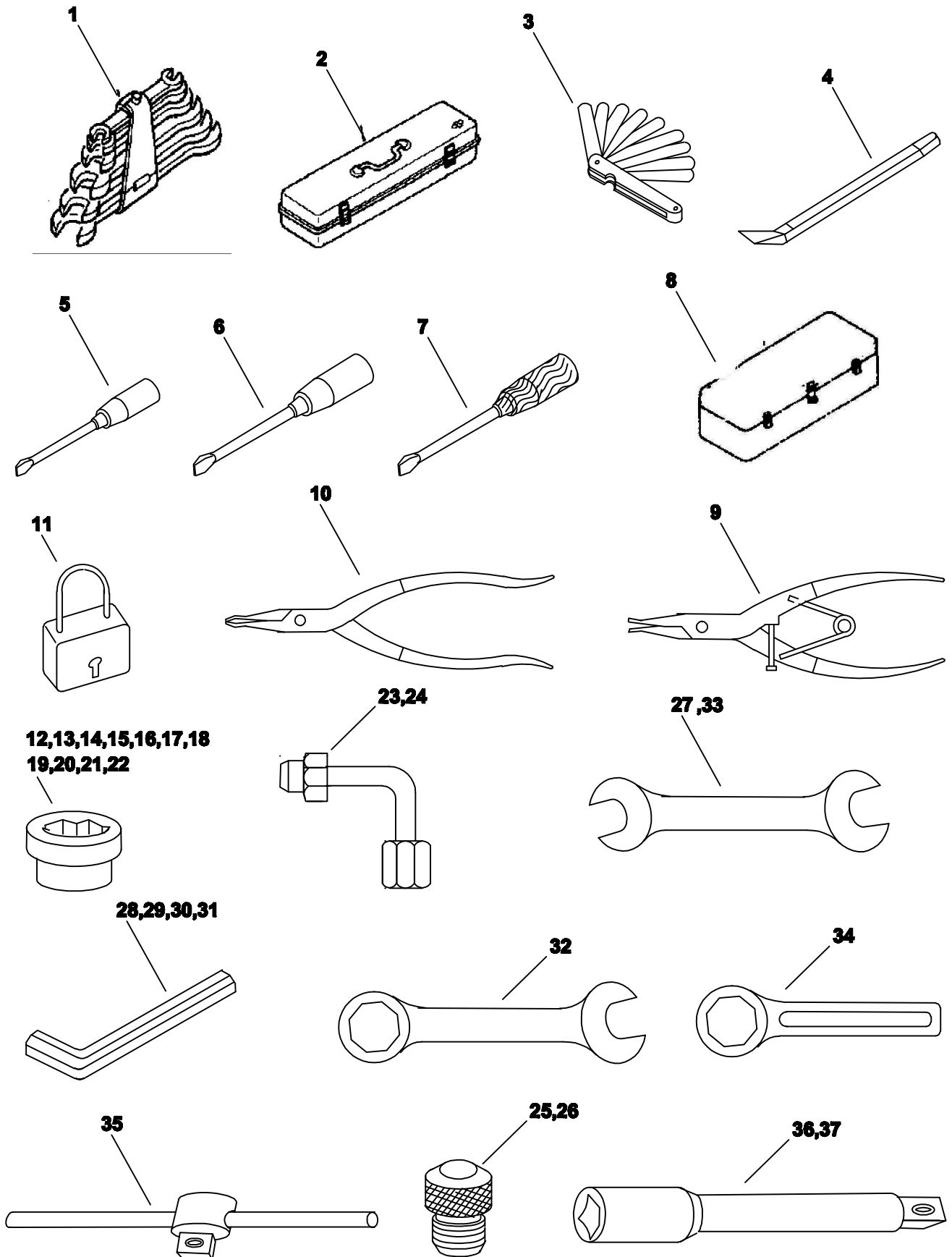
BUCKET
FIG NO.7030

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

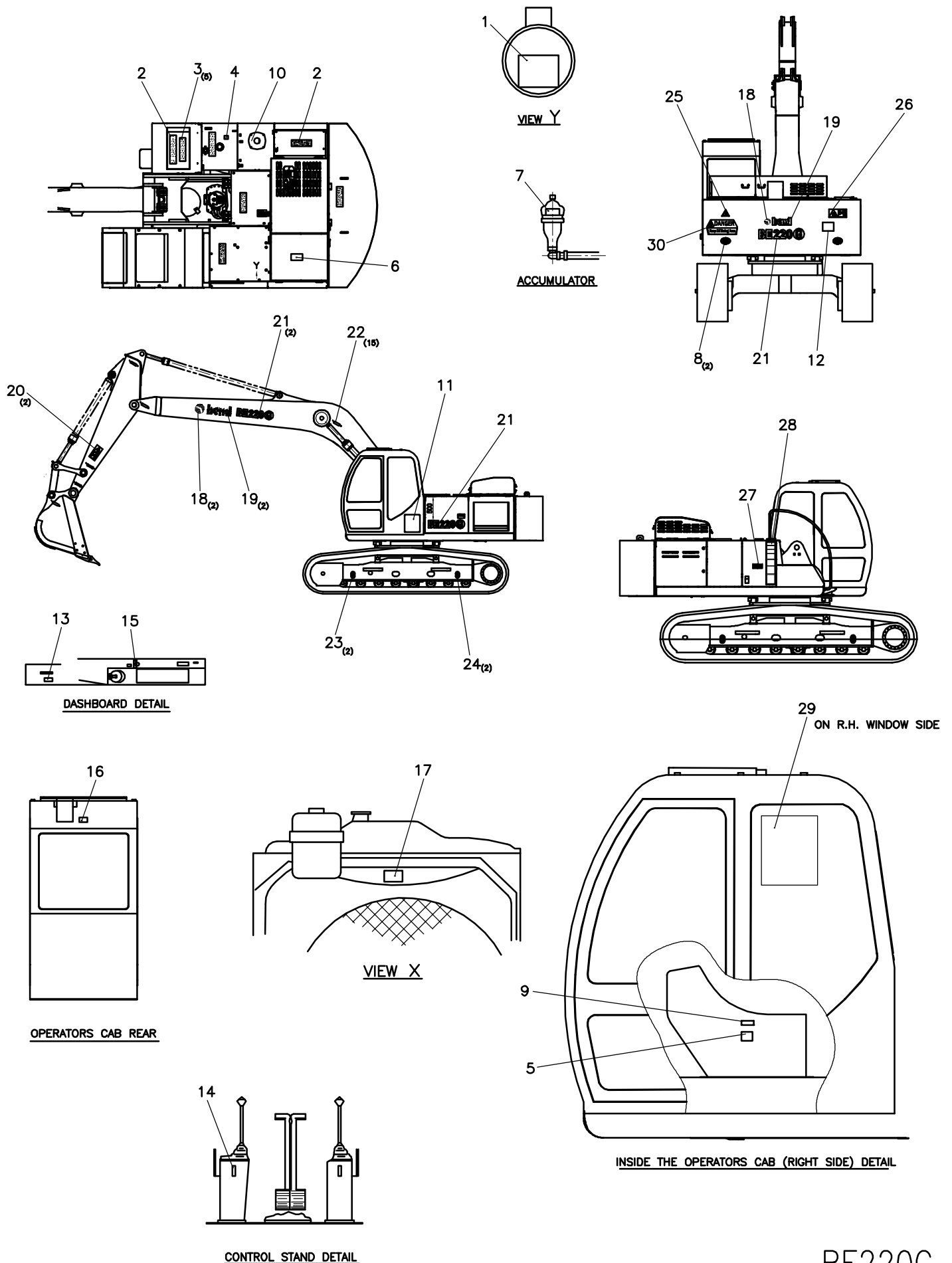
FIG NO. 8000 TOOL KIT



TOOL KIT
FIG NO.8000

ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
1	110 TI 00111	DOUBLE ENDED SPANNER	1	
2	885009000001	HEX. SOCKET SET	1	
3	030104001000	FEELER GAUGE	1	
4	520900000920	PINCH BAR	1	
5	520900070001	SCREW DRIVER 6X75	1	
6	520900080000	SCREW DRIVER 8X150	1	
7	190900000100	STAR SCREW DRIVER	1	
8	110 TI 02007	TOOL BOX	1	
9	007433203015	CIRCLIP PLIER EXT	1	
10	007433143005	CIRCLIP PLIER INT	1	
11	7455590505	GODREJ NAVATAL LOCK 6	1	
12	007435131305	IMPACT SOCKET A/F	1	
13	007435102365	IMPACT SOCKET A/F	1	
14	007435120465	IMPACT SOCKET A/F	1	
15	007435120505	IMPACT SOCKET A/F	1	
16	007435120655	IMPACT SOCKET A/F	1	
17	817 TI 90025	IMPACT SOCKET A/F	1	
18	007435120705	IMPACT SOCKET ADAPTER	1	
19	007436710405	IMPACT SOCKET ADAPTER	1	
20	007435120555	IMPACT SOCKET A/F	1	
21	007435120415	IMPACT SOCKET A/F	1	
22	007433860165	BT IMPACT SOCKET 1/2"	1	
23	008017561735	HYD ADAPTER M14X1.5mm	1	
24	008017561745	HYD ADAPTER M18X1.5mm	1	
25	007836410115	MINIMESS	1	
26	007836410125	MINIMESS	1	
27	030101052100	DOUBLE ENDED SPANNER	1	
28	007434690385	ALLEN KEY 1.5 TO 10mm	1	
29	007434690125	ALLEN KEY 12mm	1	
30	007434690145	ALLEN KEY 14mm	1	
31	007434690175	ALLEN KEY 17mm	1	
32	817 TI 90033	COMBINATION SPANNER	1	
33	007434430655	DOUBLE ENDED	1	
34	007434490315	SINGLE END RING	1	
35	007433440305	T- HANDLE 1"SQ DRIVE	1	
36	007433412505	EXTEN. ROD 1"SQ DRIVE	1	
37	007433412405	EXTEN. ROD 1"SQ DRIVE	1	

FIG. 8010 DECAL



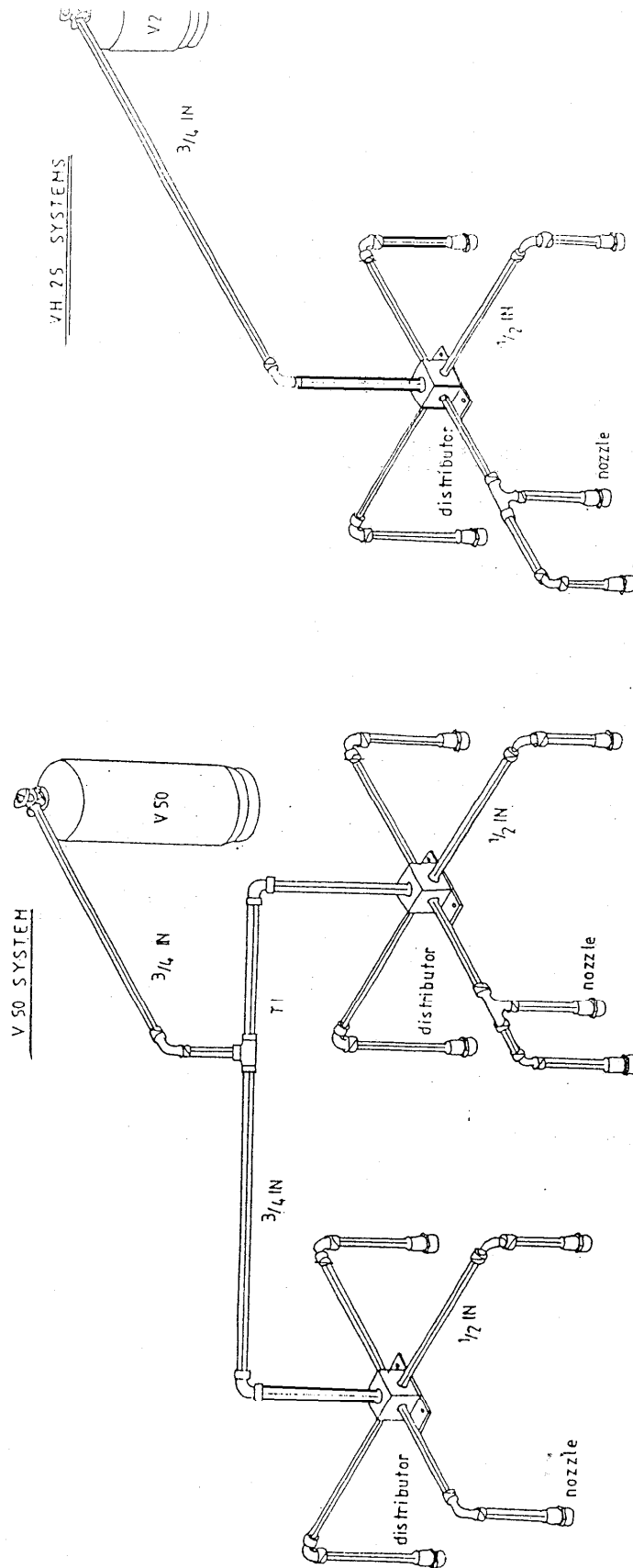
BE220G

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

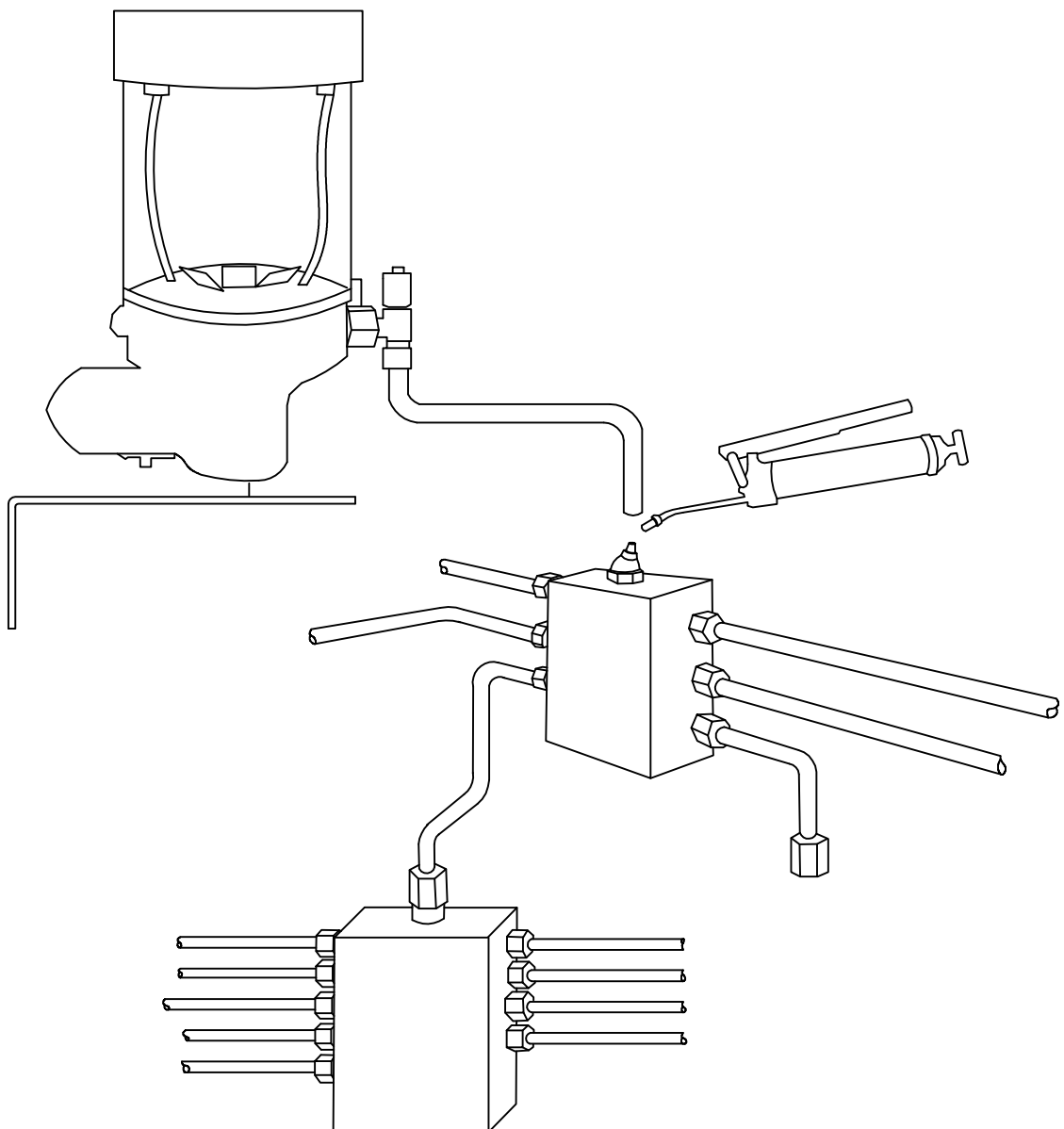
FIG: 9000 AUTO FIRE SUPPRESSION SYSTEM
(OPTIONAL)



AUTO FIRE (OPTIONAL)**FIG NO.9000**

ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 EFB 0021	AUTO FIRE PROTECTION	1	

FIG: 9010 AUTO LUBE SYSTEM
(OPTIONAL)



AUTO LUB (OPTIONAL)**FIG NO.9010**

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

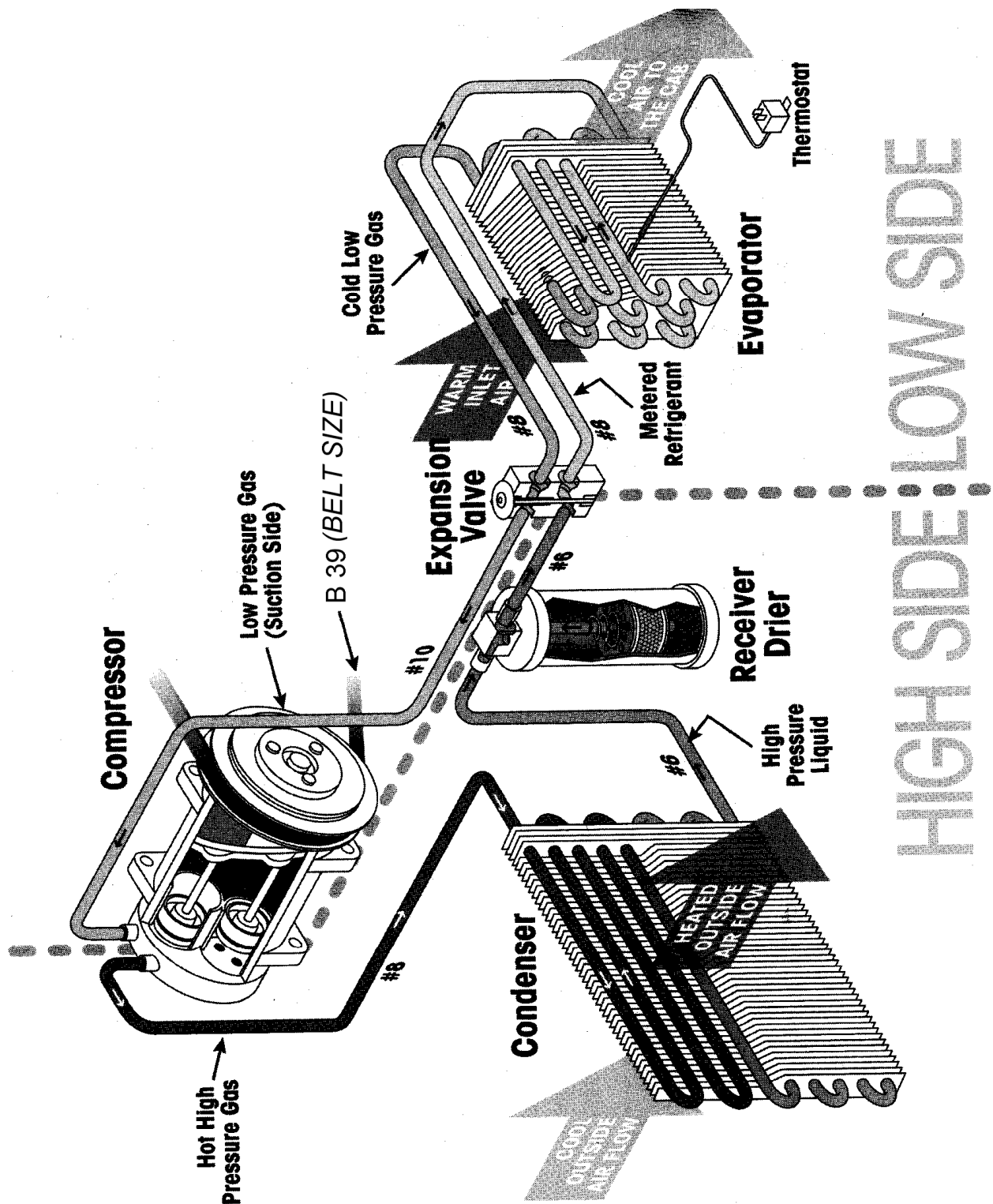
FIG:9020 REAR VIEW CAMERA
(OPTIONAL)



REAR VIEW CAMERA (OPTIONAL)**FIG NO.9020**

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

FIG: 9030 AC SYSTEM
(OPTIONAL)



AC(OPTIONAL)

FIG NO.9030

ITEM	PART NUMBER	NAME OF PART	QTY	REMARKS
01	156 AC 01003	AC KIT	1	
02	156 AC 10132	BELT	1	B 39

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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	10	135 CO 91509	4090	02	155 BH 12223	7030	03
007433203015	8000	09	135 PH 61008	2100	08	155 BH 12231	7030	04
007433412405	8000	37	135 TF 41765	3020	07	155 BH 12272	7030	08
007433412505	8000	36	135 TF 61789	3020	08	155 BH 12289	7030	09
007433440305	8000	35	136 PH 22037	4160	11	155 BH 12329	7030	14
007433860165	8000	22	154 BH 02019	7030	01	155 BH 12442	7000	43
007434430655	8000	33	154 BH 10273	7030	02	155 BH 12986	7030	12
007434490315	8000	34	154 EH 02195	5050	12	155 BH 12994	7030	12
007434690125	8000	29	154 EH 03012	5050	01	155 BH 51403	7000	02
007434690145	8000	30	154 EH 03029	5050	08	155 BH 51785	7010	03
007434690175	8000	31	154 EH 10392	5050	04	155 BH 51817	7010	04
007434690385	8000	28	154 EH 10408	5050	10	155 BH 51825	7010	02
007435102365	8000	13	154 EH 60386	5050	09	155 BH 51988	7020	02
007435120415	8000	21	154 FL 01008	1080		155 BH 51996	7020	03
007435120465	8000	14	154 FL 02004	1080	01	155 BH 52319	7030	13
007435120505	8000	15	155 BH 02017	7000	15	155 BH 62022	7020	16
007435120555	8000	20	155 BH 02025	7000	20	155 BH 91564	7000	35
007435120655	8000	16	155 BH 02033	7000	32	155 BH 93013	7010	09
007435120705	8000	18	155 BH 02041	7000	33	155 BHB 0242	7020	
007435131305	8000	12	155 BH 02058	7000	07	155 BHB 0259	7030	
007436710405	8000	19	155 BH 02066	7000	25	155 CC 02419	1115	10
007836410115	8000	25	155 BH 02066	7010	10	155 CC 02419	1120	20
007836410125	8000	26	155 BH 02074	7000	34	155 CC 02492	5071	04
008017561735	8000	23	155 BH 02099	7010	15	155 CC 02508	5071	03
008017561745	8000	24	155 BH 02114	7020	01	155 CC 14497	5071	05
030101052100	8000	27	155 BH 02122	7020	08	155 CC 14504	5071	06
030104001000	8000	03	155 BH 02139	7020	09	155 CC 94558	5071	02
105 DZ 70148	8010	01	155 BH 02147	7020	13	155 CO 02273	4100	10
105 DZ 70172	8010	14	155 BH 02147	7020	17	155 CO 02281	1030	02
110 CT 61072	3050	10	155 BH 02593	7010	01	155 CO 02298	1030	03
110 TI 00111	8000	01	155 BH 11332	7000	36	155 CO 13881	2110	05
110 TI 02007	8000	08	155 BH 11349	7000	26	155 CO 13905	1030	10
113 CX 11773	5140	03	155 BH 11349	7010	14	155 CO 13921	1030	07
113 TF 12402	3040	07	155 BH 11349	7020	07	155 CO 14001	5140	06
116 FLB 0034	1170		155 BH 11349	7020	12	155 CO 14156	1030	05
125 EF 02058	5081	05	155 BH 11357	7000	12	155 CO 64011	1030	20
125 EF 91167	5081	01	155 BH 11413	7000	21	155 CO 73984	2110	03
125 EF 91401	5081	01A	155 BH 11413	7000	27	155 CO 93894	1030	04
125 EG 02214	1120	15	155 BH 11413	7010	11	155 CO 94088	1040	01
125 EG 81441	1140	08	155 BH 11413	7010	16	155 CO 94096	1040	04
125 EG 91672	4090	10	155 BH 11454	7000	08	155 CT 11034	3050	06
125 EG 91753	1115	02	155 BH 11454	7000	17	155 CT 11042	3050	09
125 EG 91761	1115	02A	155 BH 11462	7000	13	155 CT 11083	3050	08
125 FL 02002	1170	02	155 BH 11462	7020	10	155 CT 11091	3050	11
125 FL 91006	1080	07	155 BH 11462	7020	14	155 CT 11164	3050	01
130 AL 00104	9010	01	155 BH 11479	7000	16	155 CT 51243	3050	04
130 EI 11014	4010	05	155 BH 11535	7000	11	155 CT 51268	3050	05
130 TF 00106	3020		155 BH 11543	7000	06	155 CT 61069	3050	07
130 TF 00114	3020		155 BH 11551	7000	37	155 DZ 11199	8010	
130 TF 00122	3020		155 BH 12037	7020	18	155 DZ 11199	8010	

PART NUMBER	F/NO.	I/NO.	PART NUMBER	F/NO.	I/NO.	PART NUMBER	F/NO.	I/NO.
155 DZ 21331	8010	09	155 EI 11381	1000	07	155 HC 19269	6140	06
155 DZ 71058	8010	07	155 EW 02096	1140	21	155 HC 61226	6130	05
155 DZ 71074	8010	05	155 EW 02136	1120	16	155 HC 61226	6150	05
155 DZ 71188	8010	02	155 EW 02207	1105	04	155 HC 79071	6130	17
155 DZ 71203	8010	03	155 FL 02051	1080	05	155 HC 79071	6150	14
155 DZ 90148	8010	19	155 FL 91347	1170	10	155 HC 79144	6130	08
155 EC 02033	1070	23	155 FL 91355	1170	09	155 HC 79152	6130	09
155 EC 02041	1070	24	155 FL 91371	1080	14	155 HC 79152	6150	08
155 EC 02058	1070	28	155 HC 02225	6130	19	155 HC 79225	6140	16
155 EC 02066	1070	12	155 HC 02233	6130	20	155 HC 79241	6140	08
155 EC 02074	1070	27	155 HC 02241	6130	21	155 HC 79258	6140	41
155 EC 03005	1070	14	155 HC 02258	6130	26	155 HC 79274	6140	09
155 EC 03021	1070	13	155 HC 02266	6130		155 HC 91301	6130	18
155 EC 11721	1070	32	155 HC 02274	6130		155 HC 91301	6140	17
155 EC 11819	1060	04	155 HC 02299	6150	16	155 HC 91301	6150	15
155 EC 11827	1060	06	155 HC 02306	6150	19	155 HC 91561	7010	08
155 EC 12078	1070	07	155 HC 02314	6150	24	155 HC 91561	7020	06
155 EC 61091	1070	19	155 HC 02339	6140	21	155 HC 91934	6150	03
155 EC 61731	1070	31	155 HC 02347	6140	22	155 HC 91959	6140	05
155 EC 61804	1070	08	155 HC 02355	6140	31	155 HC 92014	6140	12
155 EC 61837	1060	05	155 HC 02371	6130		155 HC 99087	6130	15
155 EC 61861	1070	21	155 HC 02388	6140		155 HC 99087	6150	12
155 EC 91101	1060	02	155 HC 02396	6150		155 HC 99119	6130	34
155 EC 92082	1070	05	155 HC 09021	6130		155 HC 99119	6150	34
155 EG 02028	1130	09	155 HC 09038	6130		155 HC 99127	6130	12
155 EG 02093	1115	25	155 HC 09046	6140		155 HC 99127	6150	11
155 EG 02166	5071	10	155 HC 09054	6150		155 HC 99216	6140	14
155 EG 02206	1150	01	155 HC 09102	6130	01	155 HP 61156	5140	04
155 EG 11262	1150	05	155 HC 09176	6150	01	155 HS 00018	2080	
155 EG 11895	1115	23	155 HC 09232	6140	01	155 HS 01012	2080	
155 EG 12526	1140	10	155 HC 11613	6130	14	155 HS 02041	6080	07
155 EG 61904	1115	22	155 HC 11662	6140	13	155 HS 02058	6080	06
155 EG 81928	1115	12	155 HC 11784	6130	02	155 HS 02066	6080	25
155 EG 82495	1120	10	155 HC 11784	6140	02	155 HS 02074	6080	24
155 EG 91931	1115	06	155 HC 11784	6150	17	155 HS 02106	6080	23
155 EG 92303	1115	19	155 HC 11816	6130	27	155 HS 02114	6080	26
155 EH 02306	5050	17	155 HC 11816	6150	25	155 HS 02147	6080	12
155 EH 02444	1020	01	155 HC 11905	6150	02	155 HS 11349	6080	28
155 EH 11379	5060	07	155 HC 11962	6140	27	155 HS 11949	6080	20
155 EH 12618	5050	15	155 HC 12026	6140	20	155 HS 11957	6080	27
155 EH 12626	5060	08	155 HC 12034	6140	18	155 HS 12604	2080	08
155 EH 12683	5030	09	155 HC 12042	6140	35	155 HS 42559	2080	01
155 EH 13063	5030	13	155 HC 12067	6140	32	155 HS 42591	2080	10
155 EH 63057	5050	07	155 HC 12075	6140	40	155 HS 52579	2080	05
155 EI 02009	1000	04	155 HC 19025	6140	15	155 HS 62622	2080	02
155 EI 02017	1000	01	155 HC 19066	6130	16	155 HS 71468	6080	33
155 EI 11049	1000	05	155 HC 19066	6150	13	155 HS 71808	6080	10
155 EI 11357	1000	06	155 HC 19099	6130	13	155 HS 92617	2080	03
155 EI 11365	1000	08	155 HC 19139	6130	06	155 OS 02013	5150	
155 EI 11373	1000	09	155 HC 19188	6150	06	155 OS 03001	5150	11

PART NUMBER	F/NO.	I/NO.	PART NUMBER	F/NO.	I/NO.	PART NUMBER	F/NO.	I/NO.
155 OS 03018	5150	01	155 PH 73267	2100	10	155 TF 62017	3031	04
155 OS 03026	5150	46	155 PH 93436	4160	43	155 TF 62211	3040	05
155 OS 03034	5150	19	155 PH 93752	6210	02	155 TF 62236	3031	06
155 OS 03042	5150	40	155 PH 93914	2100	14	155 TF 92255	3031	02
155 OS 03059	5150	20	155 RF 04009	1170	11	155 TF 92709	3020	02
155 OS 03067	5150	22	155 SO 02018	4000	06	155 TFB 0034	3010	
155 OS 03075	5150	23	155 SO 02026	4000	07	155 TFB 0042	3031	
155 OS 11256	5150	14	155 SO 02034	7000	40	155 TFB 0059	3031	
155 OS 11272	5150	04	155 SO 11066	4000	02	155 TFB 0067	3031	
155 OS 11289	5150	08	155 SO 11155	4000	08	155 TFB 0075	3040	
155 OS 11491	5150	34	155 SO 61076	4000	03	155 TFB 0083	3040	
155 OS 11507	5150	37	155 SO 91743	4000	01	155 TFB 0091	3040	
155 OS 11515	5150	27	155 SOB 0024	4000	03	156 AC 01003	9030	01
155 OS 11523	5150	24	155 TF 02011	3010	19	156 AC 10132	9030	02
155 OS 11556	5150	43	155 TF 02052	3020		156 BH 02007	7000	01
155 OS 11661	5150	26	155 TF 02069	3031		156 BHB 0013	7000	
155 OS 11678	5150	30	155 TF 02077	3040		156 CO 02036	4100	01
155 OS 11686	5150	41	155 TF 02109	3000	06	156 CO 02044	4080	01
155 OS 11701	5150	25	155 TF 02133	3020		156 CO 02052	4100	03
155 OS 11701	5150	33	155 TF 03057	3020	01	156 CO 02069	4090	01
155 OS 11718	5150	31	155 TF 03073	3031	01	156 CO 02077	1030	17
155 OS 11726	5150	32	155 TF 11579	3010	07	156 CO 12437	4100	04
155 OS 11734	5150	28	155 TF 11619	3010	12	156 CO 12501	4100	06
155 OS 11734	5150	35	155 TF 11627	3010	02	156 CO 12518	4100	02
155 OS 11734	5150	38	155 TF 11643	3010	24	156 CO 12526	4080	02
155 OS 71261	5150	03	155 TF 11676	3010	08	156 CO 12534	4100	05
155 OS 91211	5150	02	155 TF 11692	3000	02	156 COB 0026	1030	#
155 OS 91228	5150	05	155 TF 11692	5000	02	156 CW 02009	5000	06
155 OS 91236	5150	12	155 TF 11732	3010	21	156 DA 91003	1010	01
155 OS 91244	5150	13	155 TF 11749	3000	09	156 DZ 20228	8010	11
155 OS 91699	5150	21	155 TF 12056	3020	04	156 DZ 90059	8010	25
155 OSB 0028	5150		155 TF 12178	3031	03	156 DZ 90075	8010	26
155 OSB 0036	5150		155 TF 12226	3031	10	156 DZ 90091	8010	27
155 PA 02064	6230	18	155 TF 12267	3031	08	156 DZ 90107	8010	20
155 PH 02326	4160	41	155 TF 12267	3040	10	156 DZ 90115	8010	23
155 PH 02407	4160	22	155 TF 12356	3040	03	156 DZ 90123	8010	24
155 PH 02431	4160		155 TF 12729	3020	10	156 DZ 90131	8010	18
155 PH 02489	2100	15	155 TF 32282	3040	01	156 DZ 90156	8010	22
155 PH 02512	2100	07	155 TF 41581	3010	15	156 DZ 90204	8010	29
155 PH 11958	2090	09	155 TF 41598	3010	04	156 DZ 90237	8010	28
155 PH 11974	6220	28	155 TF 41605	3010	01	156 DZ 90245	8010	21
155 PH 11974	6230	19	155 TF 42115	3020	09	156 DZ 90253	8010	30
155 PH 12005	2090	08	155 TF 42197	3031	07	156 EC 03011	1060	09
155 PH 12808	4160	44	155 TF 42204	3031	09	156 EC 03077	6210	01
155 PH 12816	4160	45	155 TF 42245	3031	05	156 EC 03085	6210	04
155 PH 12824	4160	46	155 TF 42318	3040	09	156 EC 03093	6210	05
155 PH 12832	4160	47	155 TF 42326	3040	04	156 EC 03109	6210	08
155 PH 61927	2090	05	155 TF 52346	3040	06	156 EC 03109	6210	08
155 PH 61927	4070	09	155 TF 61701	3000	03	156 EC 04024	1070	01
155 PH 73178	2100	11	155 TF 61701	5000	03	156 EC 11022	1060	01

PART NUMBER	F/NO.	I/NO.	PART NUMBER	F/NO.	I/NO.	PART NUMBER	F/NO.	I/NO.
156 EC 11144	1060	13	156 FD 02303	2120	01	156 PM 10543	6170	09
156 EC 11169	1070	02	156 FD 02311	2120	02	156 PM 10608	6160	11
156 EFB 0021	9000	01	156 HM 91216	6000	01	156 PM 10746	4120	04
156 EG 02091	1140	03	156 HM 91224	6090	01	156 PM 10754	4120	05
156 EG 02172	1095	04	156 HP 02007	5140	01	156 PM 10762	4120	06
156 EG 81001	1130	35	156 HP 90014	5140	02	156 PM 10779	4120	07
156 EH 02142	5060	04	156 HS 01068	6080		156 PM 10787	4120	08
156 EH 02442	5010	04	156 HS 02023	6080	18	156 PM 10795	4120	09
156 EH 02483	5030	01	156 HS 02031	6080	21	156 PM 10802	4120	10
156 EH 02531	5030	02	156 HS 02056	6080	01	156 PM 10819	4120	11
156 EH 02548	5030	03	156 IP 11121	1095	01	156 PM 11159	4160	04
156 EH 02645	5040B	03	156 IP 81139	1095	02	156 PM 11929	4070	03
156 EH 03139	5040A	01	156 PA 02005	6230	08	156 PM 12552	4140	07
156 EH 03147	5040A	02	156 PA 02151	6230	06	156 PM 12569	4140	08
156 EH 03155	5010	02	156 PA 02168	6230	07	156 PM 12577	4140	09
156 EH 03163	5010	03	156 PA 02176	6220	16	156 PM 12585	4140	11
156 EH 03171	5010	05	156 PA 02184	6220	17	156 PM 12609	4140	12
156 EH 03188	5010	06	156 PA 10098	6220	24	156 PM 12617	4140	13
156 EH 03196	5010	07	156 PA 10105	6230	12	156 PM 12625	4140	14
156 EH 03203	5030	04	156 PA 10165	6220	18	156 PM 12633	4140	15
156 EH 03211	5030	05	156 PA 10219	6220	27	156 PM 12641	4140	16
156 EH 03228	5010	01	156 PH 03815	4110		156 PM 12658	4140	18
156 EH 03244	5040A	12	156 PH 11778	4160	24	156 PM 12666	4140	17
156 EH 04038	5040A	03	156 PH 11842	4160	09	156 PM 12674	4150	01
156 EH 11222	5060	05	156 PH 11883	2100	13	156 PM 12682	4150	02
156 EH 11239	5060	06	156 PH 11891	4160	34	156 PM 12699	4150	03
156 EH 12146	1060	12	156 PM 02192	2090	01	156 PM 12706	4150	04
156 EH 13012	5010	08	156 PM 02208	2090	02	156 PM 12714	4150	05
156 EH 13126	5020	01	156 PM 02216	2090	03	156 PM 12722	4150	06
156 EH 13134	5020	02	156 PM 02224	2090	04	156 PM 12739	4150	07
156 EH 13142	5030	06	156 PM 02232	4110	11	156 PM 12747	4150	08
156 EH 13167	5060	01	156 PM 02249	4120	01	156 PM 12755	4150	09
156 EH 13175	5060	09	156 PM 02249	4160	56	156 PM 12763	4150	10
156 EH 13183	5020	04	156 PM 02265	4160	26	156 PM 12771	4150	12
156 EH 13191	5020	05	156 PM 02313	6200	01	156 PM 12788	4150	11
156 EH 13215	5040B	01	156 PM 02321	6200	02	156 PM 12796	4150	17
156 EH 13223	5040B	02	156 PM 02338	6200	03	156 PM 12803	4140	01
156 EH 13304	5020	03	156 PM 02346	6200	04	156 PM 12811	4140	10
156 EH 13459	5040A	04	156 PM 02354	6200	05	156 PM 12877	4150	18
156 EH 13694	1060	14	156 PM 02362	6200	06	156 PM 12917	4070	10
156 EI 02056	1000	02	156 PM 02549	6160	01	156 PM 60512	2090	15
156 EI 02064	1000	03	156 PM 02557	6160	02	156 PM 60529	4160	55
156 EI 10001	1010	04	156 PM 02605	6190	03	156 PM 60529	6170	08
156 EI 90039	1020	02	156 PM 02613	6170	01	156 PM 90475	6170	04
156 EW 02012	1130	04	156 PM 02621	6170	02	156 PM 90483	2090	14
156 EW 02029	1140	01	156 PM 02638	4140	20	156 PM 90572	6190	04
156 EW 02037	1140	14	156 PM 02646	6190	02	156 PM 90597	4120	12
156 EW 02053	1130	37	156 PM 02654	6190	01	156 PM 90597	4140	19
156 EW 02175	1115	01	156 PM 02662	6200	12	156 PM 90597	4150	13
156 FD 02303	2100	01	156 PM 10073	6160	03	156 PM 91099	4130	02

PART NUMBER			F/NO.	I/NO.	PART NUMBER			F/NO.	I/NO.	PART NUMBER			F/NO.	I/NO.
156	PM	91106	4130	01	176	FL	10006	4160	07	BFN27	11824	3050	03	
156	PM	91114	4160	19	181	DZ	71219	8010	10	BPL04	11624	3020	06	
156	PM	91122	4160	21	181	HS	61009	6080	15	BSP01	46193	3010	03	
156	PM	91147	4160	39	182	PH	91684	4160	38	CBT02	32010	3040	02	
156	PM	91171	4160	40	182	PH	91757	4160	08	CBZ01	00635	6140	19	
156	PM	91188	4160	67	183	CO	02106	4090	05	CCC01	00902	1070	20	
156	PM	91206	4160	25	1909000000100			8000	07	CCC01	02006	1070	11	
156	PM	91244	4160	27	206	939	5120	7030	05	CCC01	02006	1170	05	
156	PM	91252	4160	59	375	FE	91323	5050	18	CCC01	02507	1070	06	
156	PM	91285	4110	09	474	PH	12486	4160	12	CCC01	07020	1070	22	
156	PM	91293	4110	10	474	PH	63605	4160	10	CCC01	08020	6210	03	
156	PM	91309	2110	01	520200030001			1170	01	CCC01	09020	1070	09	
156	PM	91966	4160	35	5209000000920			8000	04	CCC01	09020	6190	12	
156	PM	92249	4160	60	520900070001			8000	05	CCC01	13020	6160	10	
156	PM	12399	2100	18	520900080000			8000	06	CCC02	27067	6150	28	
156	RF	02047	5000	01	640000200204			1140	22	CCC06	00814	4000	09	
156	RF	11524	5000	07	720203010000			1170	04	CCC06	01214	1120	17	
156	RF	11946	4140	23	7455590505			8000	11	CCC06	01214	1130	12	
156	SO	01077	4010	01	761	EG	12185	1140	15	CCC06	01214	1140	06	
156	TF	02034	3000	01	762	HS	03279	6080	04	CCC06	01814	1080	10	
156	ZZ	11414	1050	01	763	TF	01027	3050		CCC06	01814	1130	05	
156	ZZ	11422	1050	04	763	TF	02015	3050		CCC06	01814	1130	06	
156	ZZ	11625	4150		781	PH	02928	4160	50	CCC06	01814	1130	15	
156	ZZ	11633	4150	15	781	PH	11173	2090	19	CCC06	01814	1130	21	
156	ZZ	11641	4150	14	781	PH	91364	4160	30	CCC06	01814	1130	32	
156	ZZ	11658	4150	16	781	PH	92847	4160	52	CCC06	01814	1140	02	
156	ZZ	11699	6180	10	782	CO	11094	2110	02	CCC06	01814	1140	13	
156	ZZ	12638	2100	17	782	EG	11635	1120	11	CCC06	02514	1130	20	
157	CV	02101	4140	04	782	PH	13294	4110	07	CCC06	02514	1130	22	
157	CV	02101	4160	28	782	PH	13294	4130	03	CCC06	10810	1120	06	
157	PH	02209	6170	03	782	PH	13294	4160	15	CCC06	11214	6080	30	
157	PH	14473	4160	65	782	PH	23776	4110	08	CCC06	21814	1070	33	
160	BH	31646	7030	06	782	PH	23776	4130	04	CCC07	22738	6130	30	
160	DZ	71015	8010	16	782	PH	23776	4160	14	CCC07	22738	6140	36	
160	PA	11004	6230	21	782	PH	93355	4160	23	CCC08	00100	6080	29	
160	PH	02195	6200	16	782	PH	93371	4160	49	CCC10	00414	1140	12	
160	PH	11534	6200	13	790	PH	11294	4160	36	CCC10	00536	2100	09	
160	RF	11102	5000	09	799	CC	01001	5071	01	CCC12	01711	1140	05	
160	RF	11119	5000	10	799	CC	01001	5081	00	CCP04	21200	1080	02	
160	RF	11127	5000	11	799	FG	02022	5071	16	CDN01	01240	1030	01	
171	EF	02019	5081	04	799	PH	98313	4160	13	CDS01	03000	8010	12	
171	EG	11264	1115	15	799	PH	98338	4160	16	CDS07	03000	8010	06	
171	EH	02195	5040A	10	817	DZ	90164	8010	08	CDS08	03000	8010	17	
171	HS	91047	6080	11	817	TI	90025	8000	17	CDS09	00002	8010	04	
171	HS	91209	6080	22	817	TI	90033	8000	32	CDS11	30060	8010	15	
171	PH	11319	6230	15	8850090000001			8000	02	CDS12	00002	8010	13	
171	TF	11629	3020	03	953	EG	82364	1095	03	CEB01	11120	1160	01	
175	CC	02073	5071	11	955	EGB	0119	9020	01	CEC03	00035	1130	30	
175	CO	11023	4090	06	BFB13	12478		7030	10	CEC03	22511	1160	05	
175	EG	02047	1130	01	BFB34	11858		3050	02	CEF02	00150	1115	03	

PART NUMBER		F/NO.	I/NO.	PART NUMBER		F/NO.	I/NO.	PART NUMBER		F/NO.	I/NO.
CEF02	00200	1115	04	CFB27	10830	6220	22	CFP01	06340	5040A	11
CEH02	24120	1120	02	CFB27	11035	6220	09	CFP02	10618	1030	19
CEK01	20000	1105	05	CFB27	11035	6220	12	CFP02	11028	1040	05
CEL11	12412	1120	01	CFB27	11035	6230	04	CFP04	00616	1030	06
CEL11	12412	1150	02	CFB27	11040	6230	10	CFP04	01842	2120	06
CEL25	12470	1120		CFF01	08420	1080	03	CFP04	01842	4000	12
CEL25	12470	1150		CFG03	12039	2090	16	CFP11	00612	1030	22
CES05	20000	1120	07	CFG03	12039	2100	04	CFP11	01018	1040	06
CET04	01175	1160	02	CFG03	12039	4070	06	CFP13	05024	4090	07
CET04	02160	1160	03	CFG03	12039	6220	03	CFP15	02516	7030	07
CEW03	41630	1130	03	CFG03	12039	6220	21	CFS01	20430	4090	08
CEW03	42603	1160	04	CFG03	12039	6230	26	CFS01	20512	1120	12
CEW03	42604	1130	02	CFG03	16045	6220	08	CFS01	20612	4080	03
CEW03	42604	1130	25	CFG03	16045	6220	11	CFS01	20612	4100	07
CEW03	42630	1130	31	CFG03	16045	6230	03	CFS01	20616	5081	02
CFB01	12250	6220	25	CFL01	14518	3010	18	CFS01	21016	4100	11
CFB01	20835	2080	12	CFL01	18530	2080	09	CFS01	21020	4140	05
CFB01	20845	6130	23	CFL02	11410	4160	48	CFS01	21020	5050	05
CFB01	20845	6140	24	CFL06	10110	2080	04	CFS01	21030	1060	15
CFB01	20845	6150	21	CFL10	13104	6130	04	CFS01	21230	1170	12
CFB01	20855	6130	24	CFL10	13104	6150	04	CFS01	21235	4080	05
CFB01	20855	6140	25	CFL10	13114	6140	04	CFS01	22050	3000	07
CFB01	20855	6150	22	CFN01	10432	1140	20	CFS01	30612	7000	38
CFB01	21035	6160	14	CFN01	10868	1170	08	CFS01	30616	4160	61
CFB01	21050	6160	13	CFN01	20868	1070	29	CFS01	30620	4160	63
CFB01	21080	6140	29	CFN01	21084	1030	16	CFS01	30810	1120	03
CFB01	21200	6170	11	CFN01	21211	4090	03	CFS01	30816	1070	03
CFB01	21250	5140	10	CFN01	21211	5150	15	CFS01	30816	1070	34
CFB01	21250	6220	19	CFN01	21211	5150	17	CFS01	30816	1130	28
CFB01	21260	4140	03	CFN01	22018	7000	14	CFS01	30820	1050	07
CFB01	21270	1060	07	CFN01	22018	7020	11	CFS01	30820	1120	04
CFB01	21270	5140	12	CFN01	22018	7020	15	CFS01	30820	1120	08
CFB01	21285	6230	22	CFN01	22018	7020	19	CFS01	30820	4090	04
CFB01	21655	2120	03	CFN02	10868	1050	05	CFS01	30825	1070	17
CFB01	21660	6150	07	CFN03	11012	6200	17	CFS01	30825	1170	06
CFB01	21670	3010	10	CFN19	41411	1150	03	CFS01	30830	2090	07
CFB01	21670	6130	07	CFN20	21207	2110	04	CFS01	30830	2100	05
CFB01	21680	3040	12	CFN26	12430	7030	11	CFS01	30830	4070	08
CFB01	21685	2120	04	CFN28	11011	6130	31	CFS01	30830	6230	27
CFB01	21690	3031	11	CFN28	11011	6140	37	CFS01	30845	1060	10
CFB01	22070	4000	15	CFN28	21214	6160	08	CFS01	31016	1130	16
CFB01	31280	4160	53	CFN36	11210	1030	11	CFS01	31016	1140	16
CFB02	21610	5140	07	CFP01	01610	5150	29	CFS01	31016	4000	10
CFB07	21430	1150	06	CFP01	01610	5150	36	CFS01	31020	1010	02
CFB07	21440	6200	18	CFP01	01610	5150	39	CFS01	31020	1050	02
CFB07	21875	6140	07	CFP01	01610	5150	45	CFS01	31020	5071	12
CFB08	22215	4000	13	CFP01	01612	5050	11	CFS01	31020	5150	06
CFB19	51265	1030	08	CFP01	03218	5030	12	CFS01	31020	5150	09
CFB27	10830	2090	18	CFP01	03232	1030	12	CFS01	31020	6150	29
CFB27	10830	6220	04	CFP01	04025	2090	11	CFS01	31020	7000	41

PART NUMBER		F/NO.	I/NO.	PART NUMBER		F/NO.	I/NO.	PART NUMBER		F/NO.	I/NO.
CFS01	31025	1115	24	CFS01	31235	7010	17	CFW01	11030	4140	06
CFS01	31025	1130	26	CFS01	31240	6170	10	CFW01	11030	5050	06
CFS01	31025	3040	08	CFS01	31240	6230	13	CFW01	11030	5150	07
CFS01	31025	5030	07	CFS01	31240	6230	16	CFW01	11030	5150	10
CFS01	31025	5071	14	CFS01	31245	6080	34	CFW01	11030	6130	29
CFS01	31025	5140	14	CFS01	31630	6160	06	CFW01	11030	6140	30
CFS01	31030	4070	12	CFS01	31630	6160	15	CFW01	11030	6150	27
CFS01	31035	6130	28	CFS01	31635	1000	10	CFW01	11030	6150	30
CFS01	31035	6140	33	CFS01	31635	1080	08	CFW01	11236	1160	12
CFS01	31035	6150	26	CFS01	31635	6080	31	CFW01	11236	1170	13
CFS01	31035	6210	06	CFS01	31635	6190	08	CFW01	11236	5150	16
CFS01	31050	1030	15	CFS01	31640	1010	05	CFW01	11442	1150	04
CFS01	31220	1080	11	CFS01	31640	6190	09	CFW01	21030	6140	34
CFS01	31220	1115	20	CFS01	31640	7000	09	CFW01	31030	5071	15
CFS01	31225	1070	25	CFS01	31655	6160	16	CFW02	10408	1115	08
CFS01	31225	1120	18	CFS01	32055	7030	15	CFW02	10510	1120	13
CFS01	31225	1130	07	CFS01	31035	6200	15	CFW02	10510	5071	09
CFS01	31225	1130	10	CFS01	31230	6200	11	CFW02	10816	1050	06
CFS01	31225	1130	13	CFS01	31230	3000	11	CFW02	11225	1030	09
CFS01	31225	1130	18	CFS01	31235	6200	10	CFW02	11630	2090	10
CFS01	31225	1130	23	CFS01	32080	4010	02	CFW02	11020	1050	03
CFS01	31225	1130	33	CFS02	10412	1140	18	CFW03	10406	4090	09
CFS01	31225	3000	04	CFS13	11025	4070	05	CFW03	10408	1115	18
CFS01	31225	3010	13	CFS13	11070	6190	11	CFW03	10408	5030	11
CFS01	31225	3010	22	CFS13	12070	6190	10	CFW03	10616	1105	02
CFS01	31225	3010	25	CFS13	41025	5050	16	CFW03	10616	5150	44
CFS01	31225	4160	54	CFS15	10408	5030	10	CFW05	06023	1115	14
CFS01	31225	5050	02	CFS15	10410	1115	16	CFW05	06023	4080	04
CFS01	31225	5060	02	CFS15	10412	1115	07	CFW05	06023	4100	08
CFS01	31230	1030	13	CFS15	10516	5071	07	CFW05	06023	4160	64
CFS01	31230	1040	02	CFS15	10516	6080	08	CFW05	06023	5050	14
CFS01	31230	2090	12	CFS15	10616	1115	05	CFW05	08023	1060	11
CFS01	31230	4110	13	CFS15	10616	1115	13	CFW05	08023	1070	04
CFS01	31230	4120	03	CFS15	10625	1105	01	CFW05	08023	1070	18
CFS01	31230	4140	21	CFS01	31225	5040A	08	CFW05	08023	1070	30
CFS01	31230	4160	58	CFS01	31225	5040B	04	CFW05	08023	1070	35
CFS01	31230	5000	04	CFS01	30645	5040A	07	CFW05	08023	1120	05
CFS01	31230	5010	09	CFS01	30825	5040A	06	CFW05	08023	1120	09
CFS01	31230	5020	06	CFW01	10410	1115	17	CFW05	08023	1120	14
CFS01	31230	5050	13	CFW01	10410	1140	19	CFW05	08023	1130	29
CFS01	31230	5150	47	CFW01	10513	5071	08	CFW05	08023	2090	06
CFS01	31230	6080	13	CFW01	10513	6080	09	CFW05	08023	5040A	05
CFS01	31235	1080	13	CFW01	10619	1115	11	CFW05	10032	1010	03
CFS01	31235	4160	66	CFW01	10619	5081	03	CFW05	10032	1060	16
CFS01	31235	6080	16	CFW01	10619	7000	39	CFW05	10032	1070	36
CFS01	31235	6170	07	CFW01	10825	1170	07	CFW05	10032	1115	09
CFS01	31235	7000	18	CFW01	10825	2080	13	CFW05	10032	1130	17
CFS01	31235	7000	22	CFW01	10825	6130	25	CFW05	10032	1130	27
CFS01	31235	7000	28	CFW01	10825	6140	26	CFW05	10032	1140	17
CFS01	31235	7010	12	CFW01	10825	6150	23	CFW05	10032	2090	17

PART NUMBER		F/NO.	I/NO.	PART NUMBER		F/NO.	I/NO.	PART NUMBER		F/NO.	I/NO.
CFW05	10032	4000	11	CFW05	12032	6200	09	CGR03	00720	3010	16
CFW05	10032	4100	09	CFW05	12032	6220	20	CGR05	01610	1105	03
CFW05	10032	5030	08	CFW05	12032	6220	26	CGR05	05016	5140	09
CFW05	10032	5071	13	CFW05	12032	6230	14	CHC01	08048	6130	
CFW05	10032	5140	15	CFW05	12032	6230	17	CHC01	08048	6140	
CFW05	10032	6130	32	CFW05	12032	6230	23	CHC01	08048	6150	
CFW05	10032	6140	38	CFW05	12032	7000	19	CHC01	10052	6140	
CFW05	10032	6160	12	CFW05	12032	7000	23	CHH22	00407	4160	29
CFW05	10032	6210	07	CFW05	12032	7000	29	CHH22	00408	4110	01
CFW05	10032	6220	29	CFW05	12032	7010	13	CHH22	00408	4110	02
CFW05	10032	6230	20	CFW05	12032	7010	18	CHH22	00408	4110	03
CFW05	10032	7000	42	CFW05	12032	5040B	05	CHH22	00408	4110	04
CFW05	10616	4160	62	CFW05	14045	1150	07	CHH22	00408	4110	05
CFW05	12032	1030	14	CFW05	14045	5150	42	CHH22	00408	4110	06
CFW05	12032	1040	03	CFW05	14045	6200	19	CHH22	00410	4160	20
CFW05	12032	1060	08	CFW05	16045	1000	11	CHH22	00420	4160	31
CFW05	12032	1070	26	CFW05	16045	1080	09	CHH22	00425	4160	32
CFW05	12032	1080	06	CFW05	16045	2120	05	CHH22	00617	4160	03
CFW05	12032	1080	12	CFW05	16045	3010	11	CHH28	01208	4070	01
CFW05	12032	1115	21	CFW05	16045	3031	12	CHH28	01208	4070	02
CFW05	12032	1120	19	CFW05	16045	3040	13	CHH28	01222	2100	03
CFW05	12032	1130	08	CFW05	16045	5140	08	CHH28	11216	6230	24
CFW05	12032	1130	11	CFW05	16045	6080	32	CHH29	01208	6220	01
CFW05	12032	1130	14	CFW05	16045	6160	05	CHH29	01610	6220	06
CFW05	12032	1130	19	CFW05	16045	6190	07	CHH29	01610	6230	01
CFW05	12032	1130	24	CFW05	16045	7000	10	CHH29	11208	6220	14
CFW05	12032	1130	34	CFW05	20060	3000	08	CHH29	11608	6220	30
CFW05	12032	2090	13	CFW05	20060	4000	16	CHH30	29922	6160	09
CFW05	12032	3000	05	CFW05	20060	7030	16	CHR01	00305	1070	10
CFW05	12032	3010	14	CFW05	22060	4000	14	CHS01	11007	1070	15
CFW05	12032	3010	23	CFW05	10032	6200	14	CHS01	12055	1070	16
CFW05	12032	3010	26	CFW05	12032	3000	10	CHS01	12055	3010	06
CFW05	12032	4080	06	CFW05	20060	4010	03	CHS01	12060	3020	05
CFW05	12032	4110	12	CFW05	27080	5000	08	CHS01	12065	6210	09
CFW05	12032	4120	02	CFW06	08023	2100	06	CHS01	12070	6130	35
CFW05	12032	4140	02	CFW06	08023	4070	07	CHS01	12070	6140	42
CFW05	12032	4140	22	CFW06	08023	6220	05	CHS01	12070	6150	35
CFW05	12032	4160	57	CFW06	08023	6220	22	CHS01	12075	3040	11
CFW05	12032	5000	05	CFW06	08023	6230	28	CHS01	12105	6160	04
CFW05	12032	5010	10	CFW06	10032	4070	11	CHS01	12115	2080	11
CFW05	12032	5050	03	CFW06	10032	6220	10	CHS01	13022	1060	03
CFW05	12032	5060	03	CFW06	10032	6220	13	CHS01	13025	2100	02
CFW05	12032	5140	11	CFW06	10032	6230	05	CHS01	13025	4070	04
CFW05	12032	5140	13	CFW06	10032	6230	11	CHS01	13025	6220	02
CFW05	12032	5150	18	CFW06	16045	6130	33	CHS01	13025	6220	15
CFW05	12032	5150	48	CFW06	16045	6150	33	CHS01	13025	6230	25
CFW05	12032	6080	14	CFW05	12032	5040A	09	CHS01	13028	4160	37
CFW05	12032	6080	17	CFW05	12032	5020	07	CHS01	13028	5140	05
CFW05	12032	6160	07	CFY02	20634	1030	18	CHS01	13030	6130	22
CFW05	12032	6170	06	CGR01	03620	1030	21	CHS01	13030	6140	23

PART NUMBER				F/NO. I/NO.				PART NUMBER				F/NO. I/NO.			
CHS01	13030	6140	28	CHS02	02070	6150	36	CPF05	10813	7000	31				
CHS01	13030	6150	20	CHS03	01823	2100	12	CPF15	10214	4130	05				
CHS01	13032	6220	07	CHS03	11423	4130	06	CPF15	10214	4160	17				
CHS01	13032	6220	31	CHS03	11423	4160	05	CPF15	10318	4160	02				
CHS01	13032	6230	02	CHS03	11823	4160	33	CPF15	10422	4160	51				
CHS01	13035	2090	20	CHS03	12034	2100	16	CPF22	10210	4160	18				
CHS01	13035	4160	06	CHS03	12034	4160	01	CPL03	13620	6080	02				
CHS01	13035	6170	05	CHS03	12434	2080	07	CPL06	11410	4160	42				
CHS01	13035	6200	07	CHS03	13634	1130	36	CPL06	12414	2080	06				
CHS01	13035	6230	09	CHS03	13634	6080	03	CSB02	01040	6140	11				
CHS01	13038	6190	05	CHS12	00070	3010	17	CSB02	09040	6130	11				
CHS01	13040	1170	03	CLN01	10000	4000	04	CSB02	09040	6150	10				
CHS01	13045	6190	06	CLN01	10000	6150	31	CSD01	00080	6130	03				
CHS01	13045	6200	08	CLN01	10000	7000	03	CSD01	00080	6140	03				
CHS01	15105	3010	09	CLN01	10000	7000	24	CSD01	00080	6150	18				
CHS01	15120	6130	10	CLN01	10000	7000	30	CSD01	00090	7000	04				
CHS01	15120	6150	09	CLN01	10000	7010	06	CSD01	00090	7000	05				
CHS01	15130	6140	10	CLN01	10000	7020	05	CSD01	00090	7010	07				
CHS01	15170	1080	04	CLN01	10675	7020	04	CVL01	20000	3010	20				
CHS01	15180	6080	05	CLN01	10900	6140	39	ZFB46	10812	1140	09				
CHS01	15230	6080	19	CLN01	10900	6150	32	ZFB46	11020	1140	04				
CHS01	15330	4010	04	CLN01	10900	7010	05	ZFB46	11220	1140	07				
CHS02	02070	6130	36	CLN02	00000	3010	05	ZFB46	11220	1140	11				
CHS02	02070	6140	43	CPF05	10813	4000	05								

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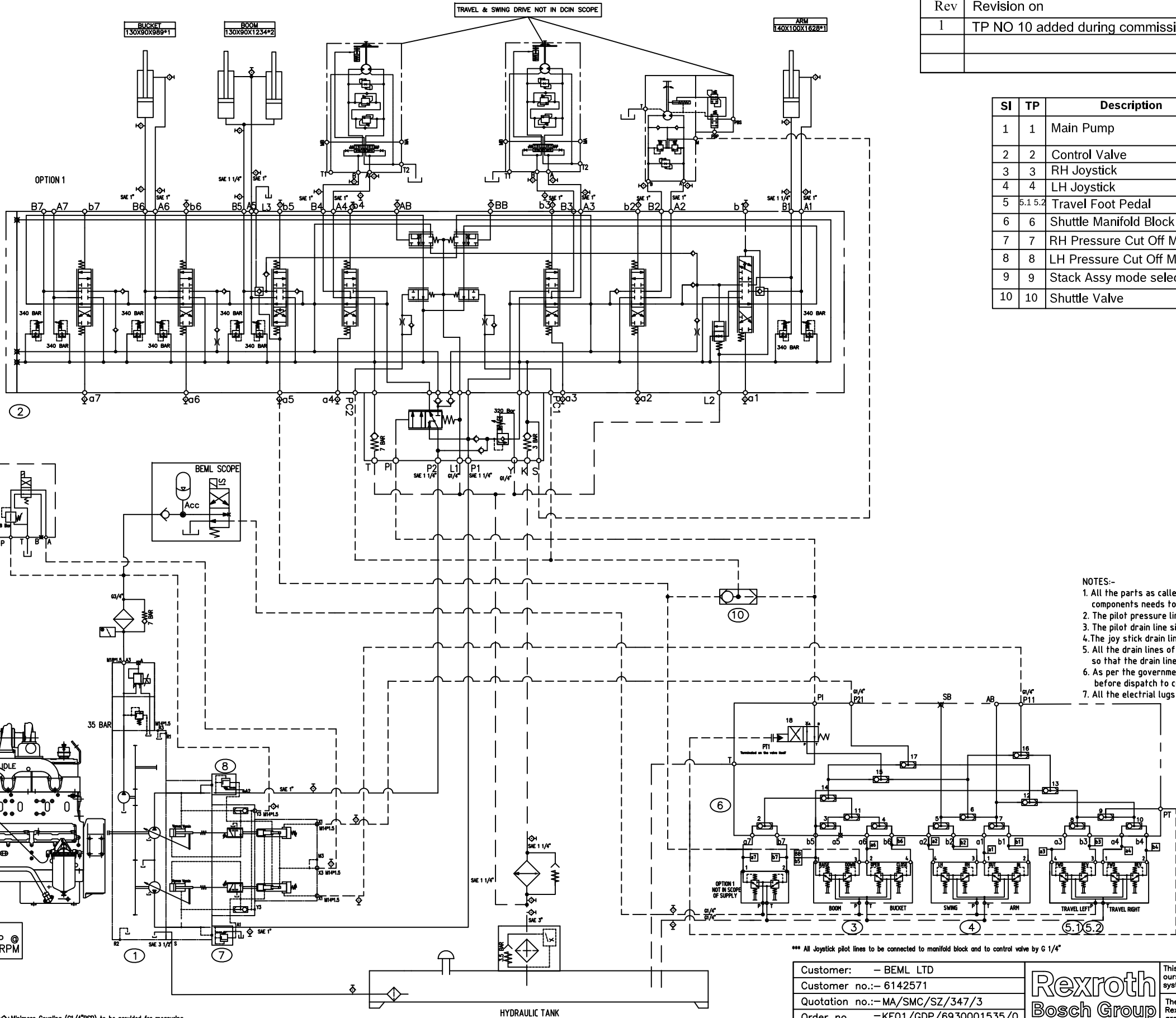
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HYDRAULICS

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	HSB

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 electrical 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"

Customer: — BEML LTD			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			
Customer no.:— 6142571								
Quotation no.:—MA/SMC/SZ/347/3			HYDRAULIC CIRCUIT FOR 22 TON EXCAVATOR — BE 220G		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.			
Order no. —KE01/GDP/6930001535/0								
Depart.	Document: HS				Sheet: 01			
DCM/India	Date	Name						
DWN	2014—01—30	KS	Mobile Hydraulics		Scale	Size	Drawing no.	Index
CHK	2014—01—30	SS						
WRK			NTS	A3	HS-64.05—MAS—0046—3—1			
APP	2014—02—XX	HSH						
			Replaces: HS—64.0*—****—3—0			Change note:		

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