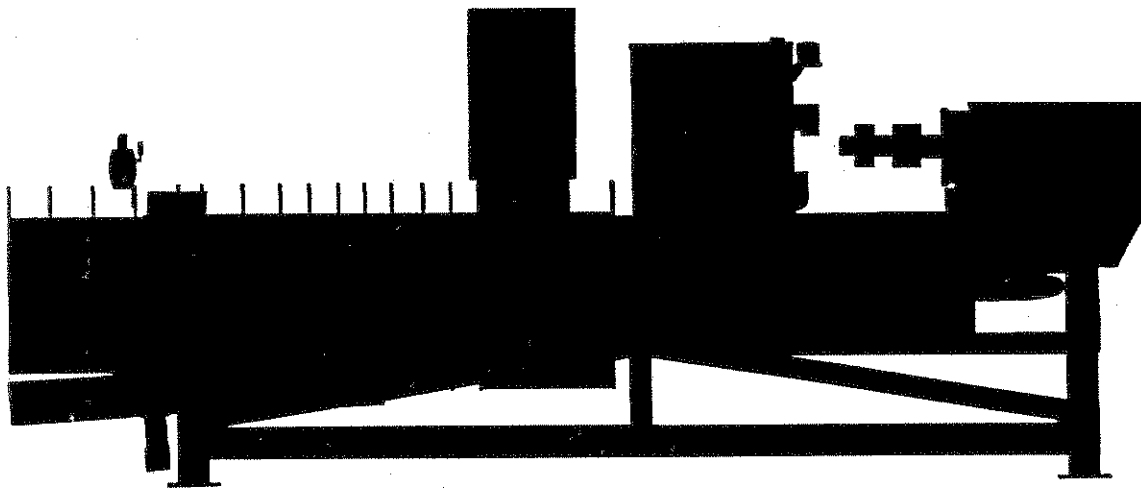


FREEMAN

MODEL WE-4 WATER EXTRACTOR



PARTS LIST

manufactured and distributed by



J. A. FREEMAN & SON, INC.



PORTLAND, OREGON

PB 00WE494



WARNING PELIGRO

POWERED BY HIGH VOLTAGE

INPUT POWER MUST BE DISCONNECTED AND, IF POSSIBLE, THE DISCONNECT DEVICE LOCKED IN THE "OFF" POSITION BEFORE OPENING ELECTRICAL BOX OR WORKING ON CIRCUITS.

FAILURE TO FOLLOW THIS WARNING MAY RESULT IN SERIOUS PERSONAL INJURY.

FUERZA DE ALTO VOLTAJE

SE DEBE DESCONECTAR LA ENTRADA ELECTRICA, Y SI ES POSIBLE, ANTES DE ABRIR LA CAJA ELECTRICA O ANTES DE TRABAJAR EN LOS CIRCUITOS, TENER LA PALANCA DE CONECCION ASEGURADA EN POSICION DE APAGADO "OFF."

EL NO SEGUIR ESTA PRECAUCION PUEDE RESULTAR EN UNA LESION PERSONAL SERIA.

FD 0023584



CAUTION PRECAUCION

**SHIELDS ARE FOR YOUR PROTECTION.
KEEP THEM IN PLACE.**

**LOS PROTECTORES SON PARA SU
PROTECCION MANTENERLOS EN SU LUGAR.**

FD 0023572

SAFETY PRECAUTIONS

"THE BEST SAFETY DEVICE IS A CAREFUL OPERATOR"

Do not clean, lubricate, or make any adjustments on the equipment while it is in operation.

Do not start the equipment until you are certain everyone is clear of the machine and have ensured there are no tools on the unit.

Do not work around equipment in loose clothing.

Do not attempt to service any equipment while the motor is running.

Inspection Covers and Safety Shields should only be removed by authorized service persons.

After servicing do not place the equipment back into operation until all Safety Shields and Devices have been replaced. Operation without Safety Shields and Devices can place the operator into a hazardous situation.

Do not open or work on the In-Feed System until the flow of material has been stopped and the Baler Motor has been turned off.

Do not make any adjustments or reach under any load bearing surfaces while they are loaded.

INSTRUCT ALL OPERATORS ON SAFETY PRECAUTIONS.



WARNING: SOME ILLUSTRATIONS IN THIS PARTS LIST SHOW THE BALER WITHOUT SHIELDS TO ALLOW FOR A BETTER VIEW OF THE AREA BEING ADDRESSED. THE BALER SHOULD NEVER BE OPERATED WITH ANY OF THE SAFETY SHIELDS REMOVED.

SERIAL NUMBER LOCATION AND BALER IDENTIFICATION

Each Freeman Baler is identified by means of a baler model number and baler serial number. As a further identification, all power units are provided with a serial number.

To ensure prompt, efficient service when ordering parts or requesting repairs from your authorized Freeman dealer, record the serial numbers in the spaces provided.

BALER SERIAL NUMBER

Front of baler frame under oil cooler. _____

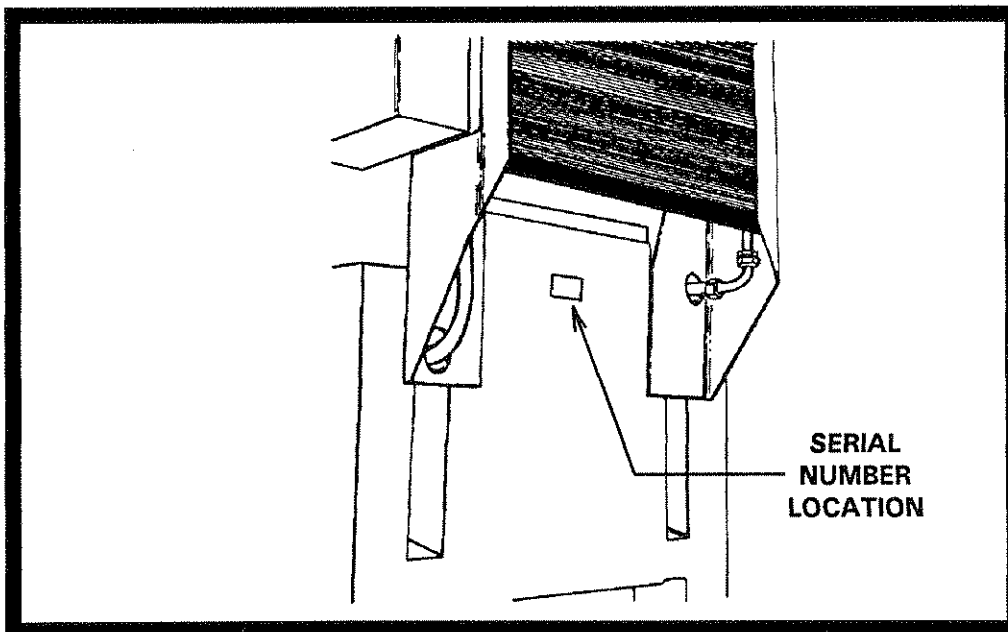
POWER UNIT SERIAL NUMBER

Electric Motor-

Left side, near connection box. _____

NOTE: The motor and pump end is considered the front of the baler. The sides are described as left-hand side and right-hand side as viewed from behind while facing the baling chamber from the rear.

The serial number is an important piece of information about the machine and it may be necessary to know it before obtaining the correct replacement part. The serial number is located on the front of the baler frame under the oil cooler.



NOTE: ILLUSTRATIONS ARE FOR "ORDERING" INFORMATION ONLY, AND ARE NOT INTENDED FOR USE AS AN ASSEMBLY GUIDE.

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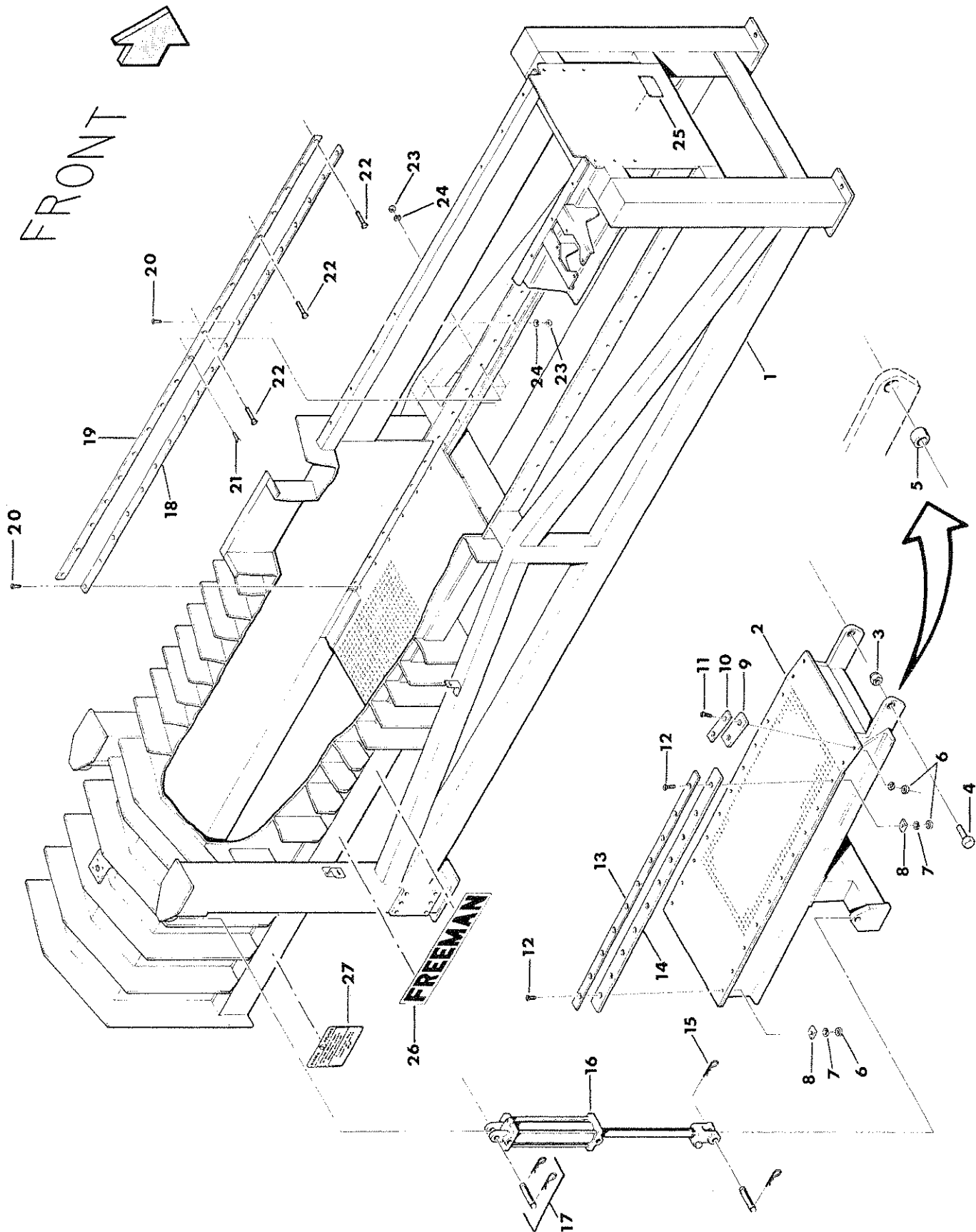
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DOR0248191	10	HOS0022453	40	HYD5755061	30
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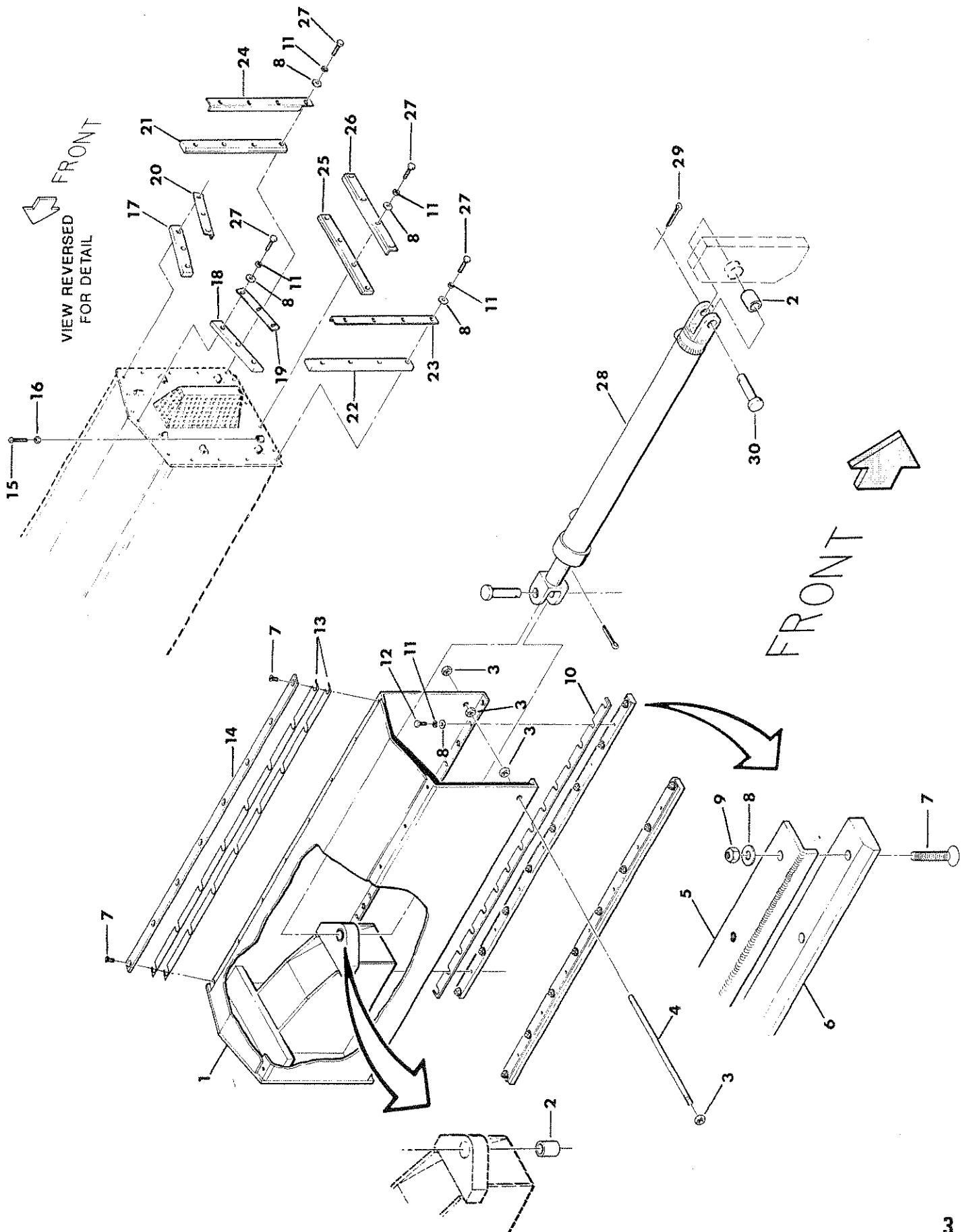
MAIN FRAME AND RESTRICTOR RAIL ASSEMBLIES



MAIN FRAME AND RESTRICTOR RAIL ASSEMBLIES

REF NO.	PART NO.	DESCRIPTION	QTY. USED
1	FRM0021803	MAIN FRAME ASSEMBLY -MSP	1
1	FRM0024990	MAIN FRAME ASSEMBLY-316 SS	1
2	RAL0021756	RESTRICTOR RAIL -A36	1
2	RAL0025020	RESTRICTOR RAIL -316SS	1
3	NCE0001000	1" NC ESNA NUT - PLATED	2
3	NCE0001000	1" NC ESNA NUT-STAINLESS	2
4	SCC0001011	1" X 3-1/4 NC HT CAP SCREW	2
4	SCC0003011	1" X 3-1/4" HEX CS -STAINLESS	2
5	BSH00VG400	1 I.D. X 1-1/4 X 1 LG TEN BUSH	2
6	NCH0000375	3/8" NC HEX NUT - PLATED	24
6	NCH0000375	3/8" NC HEX NUT - STAINLESS	24
7	WLK0000375	3/8" MEDIUM LOCKWASHER-PLT	24
7	WLK0000375	3/8" LOCKWASHER - STAINLESS	24
8	WAS0000143	3/8" MALLEABLE BEVEL WASHER	20
8	WAS0000143	3/8" MALLEABLE BEVEL WASHER -SS	20
9	RAL0021934	RESTRICTOR RAIL FRONT WIPER	2
10	RAL0021935	FRONT WIPER BACKUP	2
10	RAL0025024	RESTRIC RAIL WIPER BK-UP-316SS	2
11	SMF0003004	3/8 X 1-1/2 FH MACH SC-PLTD	4
11	SMFS000304	3/8 X 1-1/2 NC FH MS-STNLS ST	4
12	SMF0000307	3/8 X 2-1/4 FH MACHINE SCREW	20
12	SMFS000308	3/8" X 2-1/4 SLOTTED FHMS-STNLS	20
13	RAL0021933	MAIN WIPER BACKUP	2
13	RAL0025023	RESTRIC RAIL WIPER BK-UP-316SS	2
14	RAL0021932	RESTRICTOR RAIL MAIN WIPER	2
15	F 0006511	HAIRPIN FOR CYLINDER PIN	8
16	CYL0003516	3.5 X 16 HYDRAULIC CYLINDER	2
16	SEL0001504	SEAL KIT F/CYL0003516	1
17	F 0006498	CYLINDER PIVOT PIN	4
18	PLG0021918	BOTTOM PLUNGER RAIL	2
18	PLG0025542	BOTTOM PLUNGER RAIL 316SS	2
19	PLG0021919	SIDE PLUNGER RAIL	2
19	PLG0025543	SIDE PLUNGER RAIL 316SS	2
20	SMF0002003	5/16 X 1-1/4 FH MACH SC-PLTD	38
20	SMFS000203	5/16 X 1-1/4 NC FH MS-STNLS ST	38
21	SMF0002004	5/16 X 1-1/2 FH MACH SC-PLTD	32
21	SMFS000204	5/16 X 1-1/2 NC FH MS-STNLS ST	32
22	SMF0002006	5/16 X 2 FH MACH SC-PLTD	6
22	SMFS002006	5/16 X 2 SLOTTED F.H.M.S STNLS	6
23	NCH0000313	5/16" NC HEX NUT - PLATED	76
23	NCH0000313	5/16" NC HEX NUT - STAINLESS	76
24	WLK0000313	5/16" MEDIUM LOCKWASHER-PLT	76
24	WLK0000313	5/16" LOCKWASHER - STAINLESS	76
25	NP 0000100	SERIAL NUMBER ID PLATE	1
26	FD 0007111	FREEMAN DECAL, WHITE	2
27	FD 0023574	"DANGER!KEEP AWAY FROM OPEN.."	3

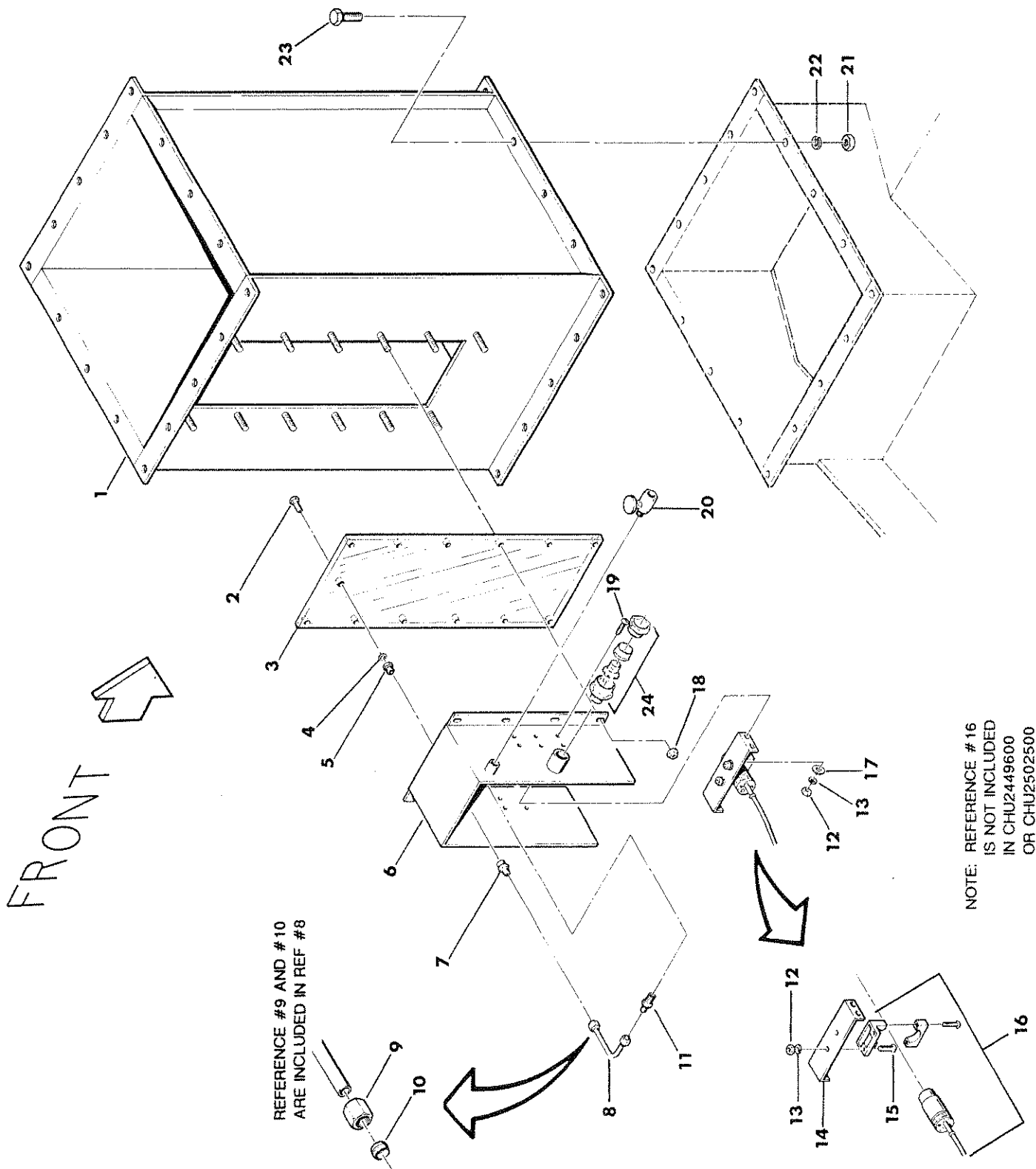
PLUNGER ASSEMBLY



PLUNGER ASSEMBLY

REF NO.	PART NO.	DESCRIPTION	QTY. USED	REF NO.	PART NO.	DESCRIPTION	QTY. USED
1	PLG0025503	PLUNGER FRAME ASSEMBLY	1	15	SQSS375200	3/8X2 SQ HEAD STE SCREW-STNLS	8
1	PLG0025555	PLUNGER FRAME ASSEMBLY -316SS	1	16	NCJ0000375	3/8" NC JAM NUT - PLATED	8
2	BSH00VG870	1-3/4 I.D.X2 O.D.X2-1/2 LG BSH	2	16	NCJS000375	3/8 NC JAM NUT - STAINLESS	8
3	NCJ0000750	3/4" NC JAM NUT - PLATED	4	17	PLG2192700	LH PLGR TOP FACE WIPER	1
3	NCJS000750	3/4"NC JAM NUT-STAINLESS	4	18	PLG2192701	RH PLGR TOP FACE WIPER	1
4	ROD0024910	PLUNGER TIE ROD	1	19	PLG2192800	LH TOP WIPER BACKUP	1
5	PLG0025903	PLUNGER SLIDE BK-UP BAR ASSY	2	19	PLG2501900	LH PLGR TOP WIPER BACKUP-316SS	1
5	PLG0025906	PLUNGER SLIDE BK-UP BAR -316SS	2	20	PLG2192801	RH TOP WIPER BACKUP	1
6	PLG0021920	BOTTOM PLUNGER SLIDE	2	20	PLG2501901	RH PLGR TOP WIPER BACKUP-316SS	1
7	SMF0003004	3/8 X 1-1/2 FH MACH SC-PLTD	32	21	PLG2192501	RH SIDE FACE WIPER	1
7	SMFS000304	3/8 X 1-1/2 NC FH MS-STAINLESS	32	22	PLG2192500	LH SIDE FACE WIPER	1
8	WCT0000375	3/8" FLATWASHER-PLATED	48	23	PLG2192600	LEFT SIDE WIPER BACKUP	1
8	WCTS000375	3/8" FLATWASHER-STAINLESS	48	23	PLG2501800	LH PLGR SIDE WIPER BACKUP-316SS	1
9	NCE0000375	3/8" NC ESNA NUT - PLATED	16	24	PLG2192601	RIGHT SIDE WIPER BACKUP	1
9	NCES000375	3/8" NC ESNA HEX NUT-STNLS	16	24	PLG2501801	RH PLGR SIDE WIPER BACKUP-316SS	1
10	SHM0021922	PLUNGER BOTTOM SLIDE SHIM	8	25	PLG0021923	PLUNGER BOTTOM FACE WIPER	1
10	SHM0025016	PLUNGER BOTTOM SLIDE SHIM-316SS	8	26	PLG0021924	BOTTOM WIPER BACK-UP	1
11	WLK0000375	3/8"MEDIUM LOCKWASHER-PLT	32	26	PLG0025017	BOTTOM PLGR WIPER BK-UP -316SS	1
11	WLKS000375	3/8" LOCKWASHER - STAINLESS	32	27	SCC0030005	3/8 X 1-3/4 NC HT CS - PLATED	18
12	SCC0030002	3/8 X 1 NC HT CS - PLATED	14	27	SCCS000305	3/8 X 1-3/4 NC HEX CS-STNLS	18
12	SCCS000302	3/8 X 1 NC HEX CS-STNLS	14	28	CYL0024674	PLUNGER CYLINDER	1
13	PLG0025506	TOP PLUNGER SLIDE SHIM	4	28	SEL0024674	SEAL KIT F/CYL0024674	1
13	PLG0025560	TOP PLUNGER SLIDES SHIM-316SS	4	29	COT0000706	5/32 X 2-1/4 COTTER PIN	2
14	PLG0021900	TOP PLUNGER SLIDE	2	30	PIN0024674	CLEVIS PIN F/CYL0024674	2
15	SQS3752000	3/8 X 2 SQUARE HD SCREW	8				

INFEED CHUTE ASSEMBLY

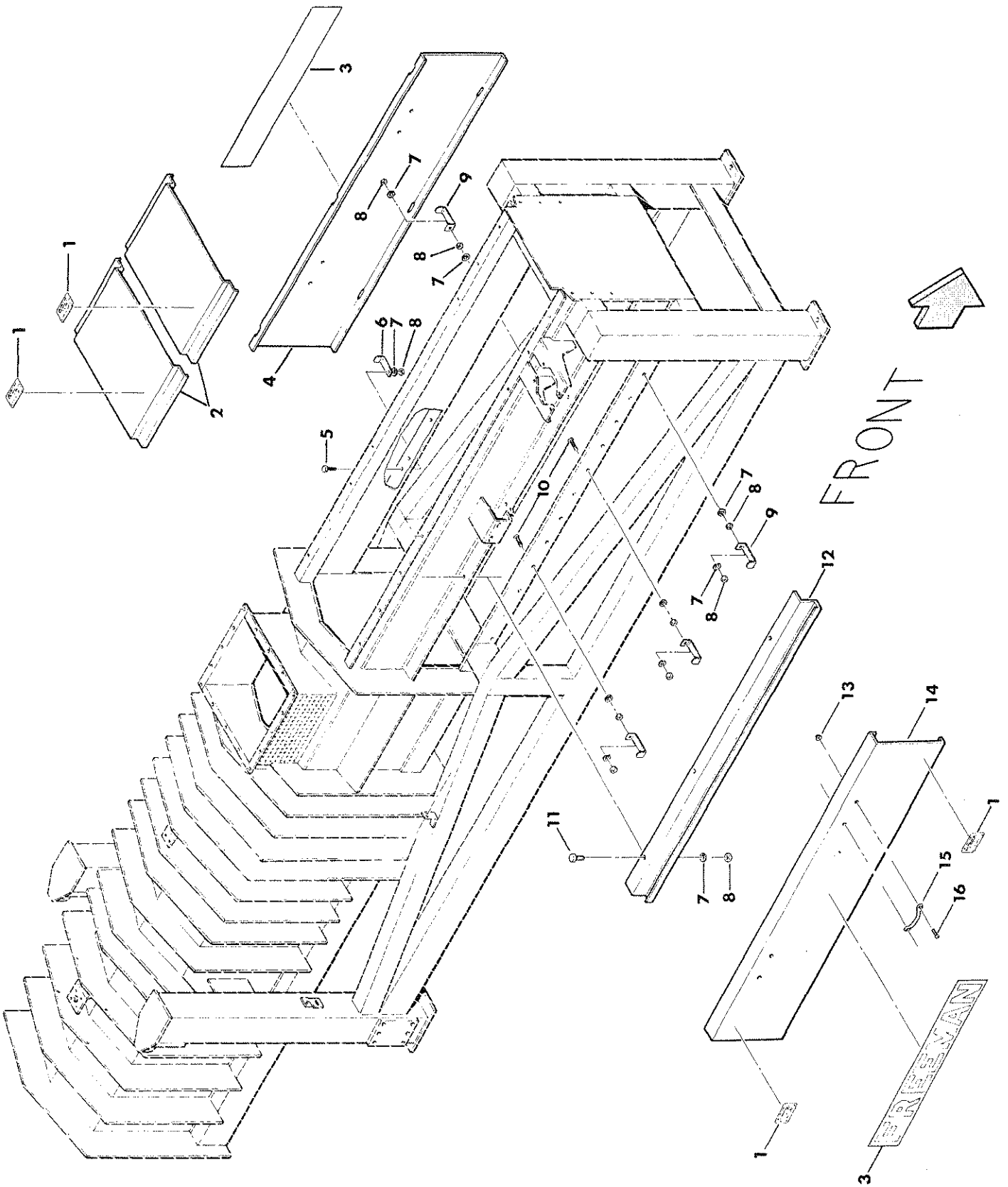


INFEED CHUTE ASSEMBLY

CHU2449600 INFEED CHUTE ASSEMBLY -MSP
CHU2502500 INFEED CHUTE ASSEMBLY -316 SS

REF NO.	PART NO.	DESCRIPTION	QTY. USED
1	CHU0024496	STANDARD INFEED CHUTE	1
1	CHU0025025	STANDARD INFEED CHUTE-316 SS	1
2	VLV0026113	SENSOR WINDOW CLEANER TIP	1
3	WND0024498	CHUTE SENSOR WINDOW	1
4	WAS0093781	THREAD SEALING WASHER	1
5	BSH0026123	SENSOR WINDOW BUSHING	1
6	BKT0026116	SENSOR MOUNTING BRACKET ASSY	1
7	HYD6600404	1/4 FEMALE CONNECTOR	1
8	TBE0261300	SENSOR WINDOW CLNR TUBE COMPL.	1
9	HYD0061020	NUT,BRASS COMPRESSION	2
10	HYD0060020	1/4" COMPRESSION SLEEVE	2
11	F 0008221	1/4 MALE CONNECTOR - W/H	1
12	NFH0001032	10-32 NF HEX NUT - PLATED	6
13	WLK0000100	#10 LOCKWASHER - PLATED	6
14	BKT0023959	SENSOR MOUNTING BRACKET	1
15	SMR1032063	10-32X5/8 RH MACH SCREW-PLT	2
16	SWI0000225	OMERON LEVEL DETECTOR	1
17	WCT0000100	#10 FLATWASHER - PLATED	4
18	NMS0000250	1/4" NC WHIZ NUT - PLATED	12
19	SMR1032075	10-32X 3/4 RH MACH SCREW-PLT	4
20	VLV0000400	1/4 NEEDLE VALVE	1
21	NCH0000313	5/16" NC HEX NUT - PLATED	16
22	WLK0000313	5/16" MEDIUM LOCKWASHER-PLT	16
23	SCC0020002	5/16 X 1 NC HT CS - PLATED	16
25	CNR0020038	STRAIGHT CONNECTOR	1

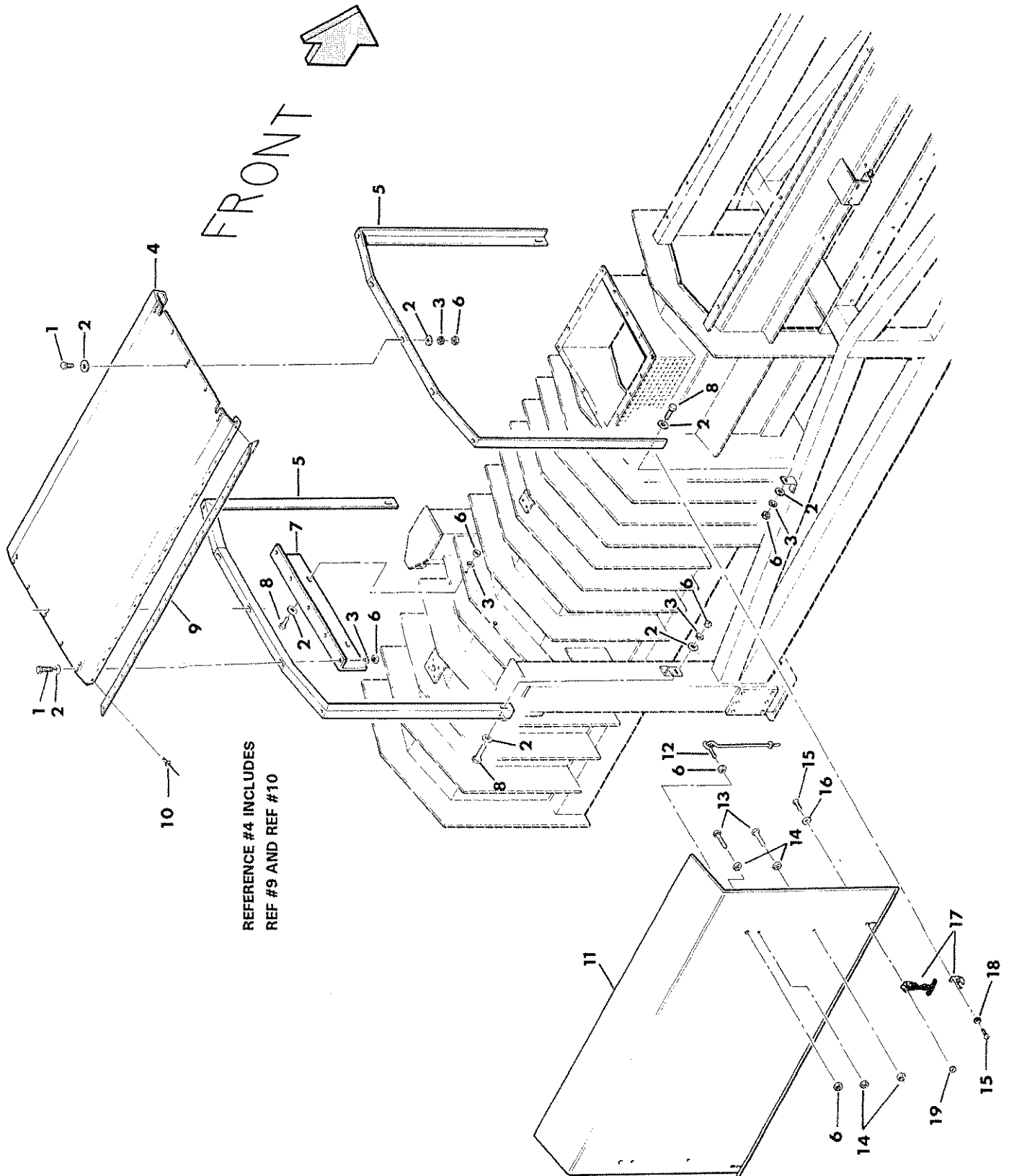
PLUNGER SHIELDS



PLUNGER SHIELDS

REF NO.	PART NO.	DESCRIPTION	QTY. USED
1	FD 0023572	"SHLDS ARE F/YOUR PROTECT..."	6
2	CVR0021960	PLUNGER TOP COVER	2
3	FD 0007111	FREEMAN DECAL, WHITE	2
4	SHD0021961	LEFT FRONT PLUNGER SHIELD	1
5	SCC0020002	5/16 X 1 NC HT CS - PLATED	3
6	SUP0021963	PLUNGER SHIELD SUPPORT	3
7	WLK0000313	5/16" MEDIUM LOCKWASHER-PLT	12
8	NCH0000313	5/16" NC HEX NUT - PLATED	18
9	SUP0021964	PLUNGER SHIELD SUPPORT	6
10	SMF0002006	5/16 X 2 FH MACH SC-PLTD	6
10	SMFS002006	5/16 X 2 SLOTTED F.H.M.S STNLS	6
11	SCC0020001	5/16 X 3/4 NC HT CS - PLATED	3
12	SUP0024581	FRONT PLUNGER SHIELD SUPPORT	1
13	NMS0000250	1/4" NC WHIZ NUT - PLATED	8
14	SHD0021962	RIGHT FRONT PUNGER SHIELD	1
15	HAN0000150	PLATED DOOR HANDLE	4
16	SCC0010000	1/4 X 1/2 NC HT CS - PLATED	8

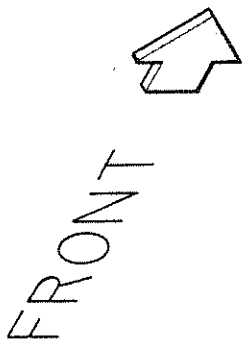
OPTIONAL SHROUD ASSEMBLY



OPTIONAL SHROUD ASSEMBLY (MILD STEEL OR STAINLESS STEEL)

REF NO.	PART NO.	DESCRIPTION	QTY. USED
1	SCC0020001	5/16 X 3/4 NC HT CS - PLATED	10
1	SCCS020001	5/16" X 3/4" NC SS CAP SCREW	10
2	WCT0000313	5/16" FLATWASHER-PLATED	25
2	WCTS000313	5/16" FLATWASHER-STAINLESS	25
3	WLK0000313	5/16" MEDIUM LOCKWASHER-PLT	16
3	WLKS000313	5/16" LOCKWASHER - STAINLESS	16
4	SHD0024760	CENTER SECTION ASSEMBLY -SS	1
4	SHD0024761	CENTER SECTION ASSEMBLY	1
5	FRM0024756	SHROUD SUPPORT FRAME ASSY-SS	1
5	FRM0024764	SHROUD SUPPORT FRAME ASSEMBLY	2
6	NCH0000313	5/16" NC HEX NUT - PLATED	24
6	NCHS000313	5/16" NC HEX NUT - STAINLESS	24
7	SUP0024207	REAR CENTER SECT SUPT ANGLE	1
8	SCC0020003	5/16 X 1-1/4 NC HT CS - PLATED	4
8	SCCS020003	5/16 X 1-1/4 NC HEX HD CS SS	4
9	HNG0024765	SHROUD DOOR HINGE -STAINLESS	2
10	RIV0000604	3/16X1/4 STAINLESS GRIP RIVET	96
11	DOR0248180	L. H. SHROUD DOOR -STAINLESS	1
11	DOR0248181	R. H. SHROUD DOOR -STAINLESS	1
11	DOR0248190	L. H. SHROUD DOOR	1
11	DOR0248191	R. H. SHROUD DOOR	1
12	PRP0024823	SHROUD DOOR PROP -STAINLESS	4
12	PRP0024833	SHROUD DOOR PROP	4
13	SCC0010005	1/4 X 1-3/4 NC HT CS - PLATED	8
13	SCCS010005	1/4" X 1-3/4" SS CAP SCREW	8
14	NCH0000250	1/4" NC HEX NUT - PLATED	16
14	NCHS000250	1/4" NC HEX NUT - STAINLESS	16
15	SMTS103250	10-32 X 1/2 TRUSS SCREW STLNS	16
16	WCTS010000	#10 FLAT WASHER STAINLESS	8
17	LAT0000201	RUBBER DRAW LATCH	4
18	WLK0000100	#10 LOCKWASHER - PLATED	8
19	NFES001032	10/32 NF ESNA -STAINLESS	8

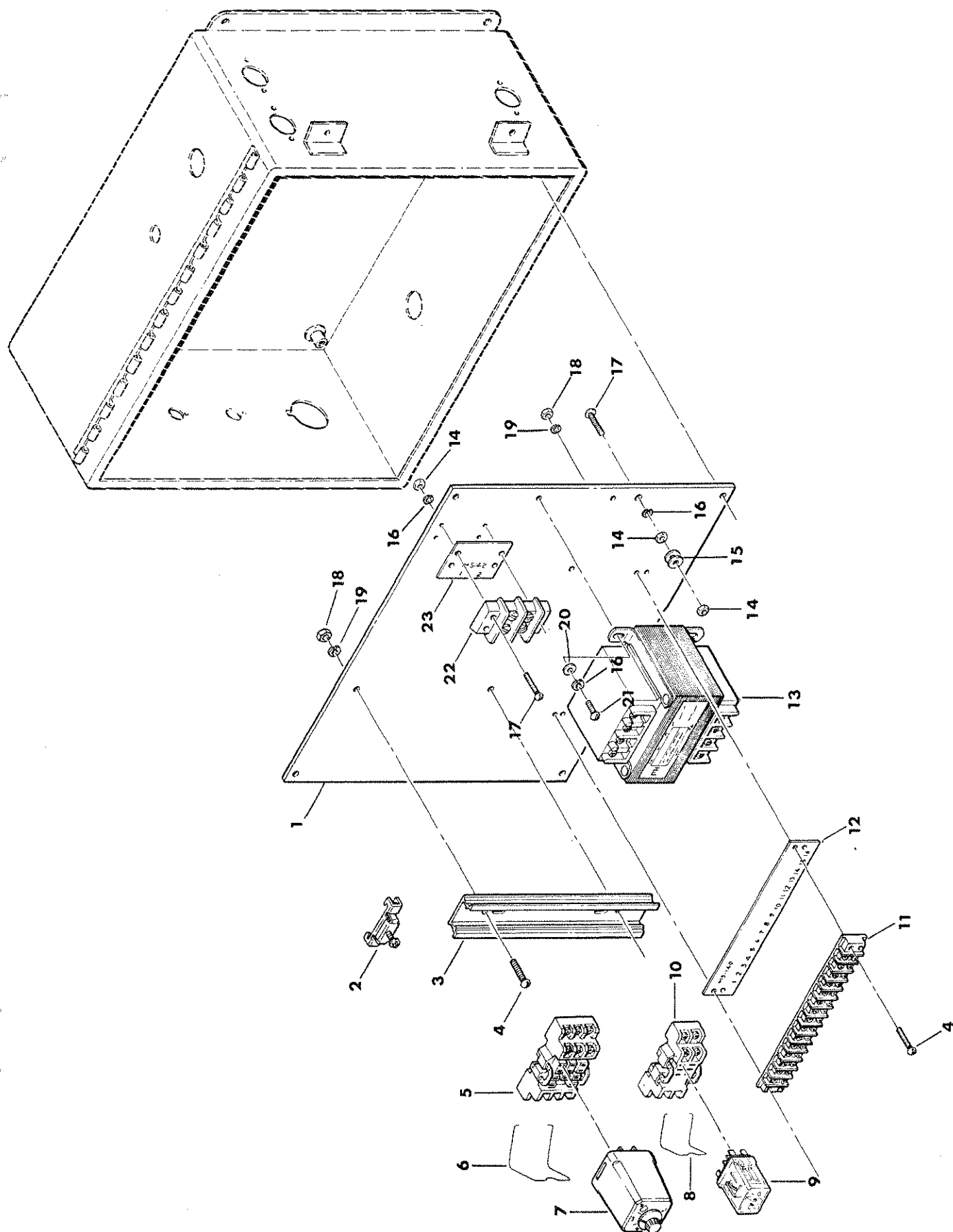
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CONTROL BOX ASSEMBLY

REF NO.	PART NO.	DESCRIPTION	QTY. USED
1	BOX0024546	CONTROL BOX WITH LID	1
2	FD 0020598	FNQ 1 DECAL	2
3	FUS0000052	FUSE - FNQ 1	2
4	FD 0020597	DECAL-FNM 2	1
5	FUS0000042	FUSE - FNM 2	1
6	FUS0000018	FUSE HOLDER	3
7	SMR8320075	8-32 X 3/4 RH MACH SCREW-PLT	6
8	RNG0005262	SEALING RING F/1/2"CONNECTOR	3
9	CNR0000110	1/2"LIQUID TIGHT 90* CONNECTOR	2
10	WLK0010008	#8 LOCKWASHER - PLATED	6
11	NCH0000832	8-32 NC HEX NUT - PLATED	6
12	SWI0096201	ADJ PRESSURE SWITCH W/3' LEADS	1
13	NMS0000150	1/2 CONDUIT LOCKNUT-STEEL	3
14	HYD5275032	3/8JICX1/4NPT FELM BULKHD CONN	1
15	SWI0005020	MICRO SWITCH -1TL 1-2	2
16	SWI0005023	MICRO SWITCH -1TL 1-3	1
17	WAS0093784	9/16" THREAD SEALING WASHER	1
18	WIS0005625	9/16 INTERNAL STAR WASHER-PLT	1
19	HYD5924030	3/8" BULKHEAD NUT	1
20	CNR0020038	STRAIGHT CONNECTOR	1
21	LIT0001200	BULB-MINIATURE BAYONET BASE	1
22	LIT1690410	LAMP HOLDER	1
23	FD 0000053	DECAL-CONTROL CIRCUIT-OFF-ON	1
24	FD 0024638	RESTRICTION CONTORL DECAL	1
25	FD 0018445	ANTI PLUG DECAL-WATER EXTRACTR	1
26	SWI0005003	PUSH BUTTON SWITCH -OPERATOR	1
27	SWI0005038	PUSH BUTTON MUSHROOM-RED	1
28	PLT0015029	"EMERGENCY STOP" LEGEND PLATE	1
29	BLK0005041	CONTACT BLOCK	2
30	FD 0023584	"WARNING! POWERED BY HIGH..."	1

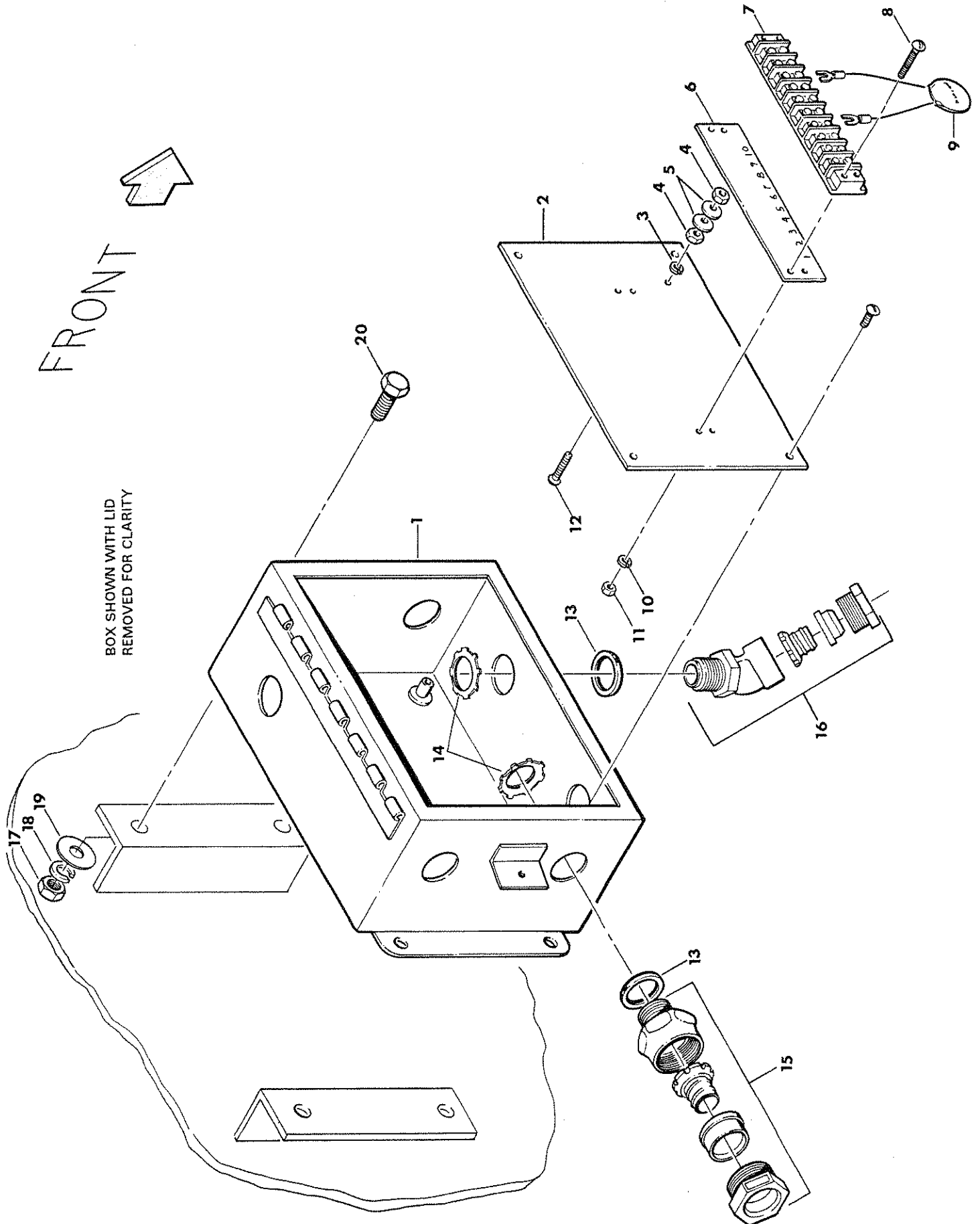
CONTROL PANEL ASSEMBLY



CONTROL PANEL ASSEMBLY

REF NO.	PART NO.	DESCRIPTION	QTY. USED
1	PNL0024545	CONTROL BOX PANEL	1
2	REL0005000	END CLIP -BNL-5	2
3	RAL0024564	RELAY SOCKET MNTG RAIL	1
4	SMR6320500	6-32 X 1/2 RH MACH SCREW-PLT	6
5	REL0003010	RELAY SOCKET	1
6	REL0003021	RELAY HOLD DOWN SPRING	1
7	REL5170010	TIME DELAY RELAY	1
8	REL0004502	RELAY HOLD DOWN	4
9	REL0002000	RELAY	4
10	REL0002050	RELAY SOCKET	4
11	BAB0016140	16-140 BARRIER BLOCK	1
12	MSR0016140	16-140 MARKER STRIP	1
13	TRA0015020	TRANSFORMER 230-460V	1
14	NFH0001032	10-32 NF HEX NUT - PLATED	6
15	WCB0001000	#10 BRASS WASHER-7/16"O.D.	2
16	WLK0000100	#10 LOCKWASHER - PLATED	9
17	SMR1032750	10-32X3/4 RH MACH SCREW	5
18	NCH0000632	6-32 NC HEX NUT - PLATED	6
19	WLK0000600	#6 LOCKWASHER - PLATED	6
20	WCT0000100	#10 FLATWASHER - PLATED	4
21	SMR1032500	10-32X1/2 RH MACH SCREW-PLT	4
22	BAB0002142	BARRIER BLOCK	1
23	MSR0002142	MARKER STRIP	1

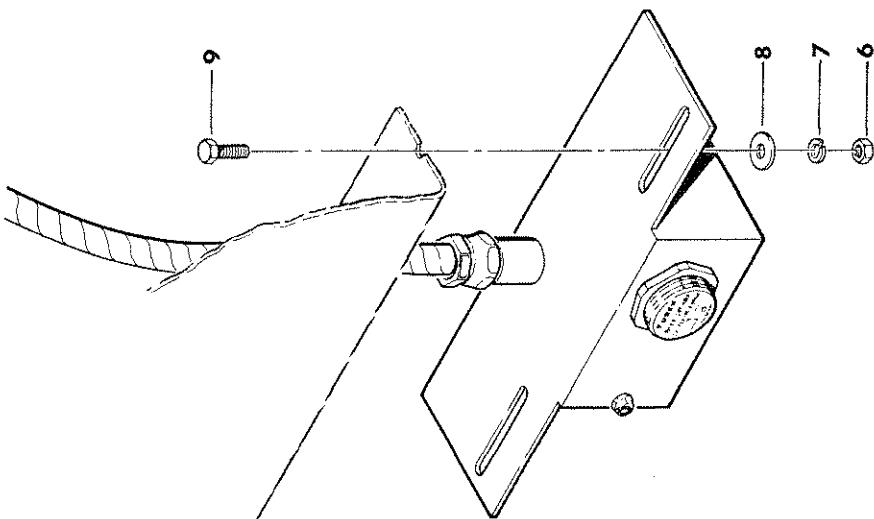
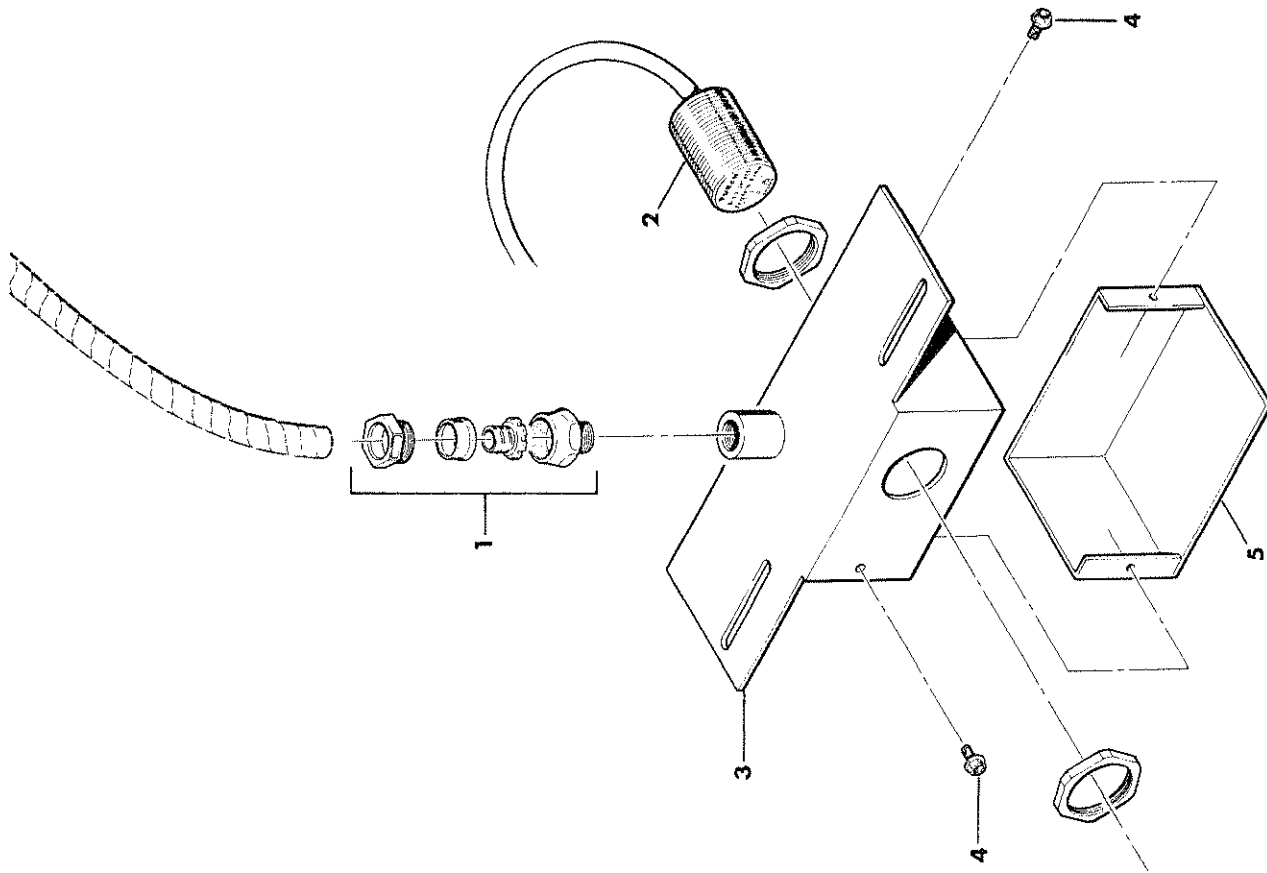
JUNCTION BOX ASSEMBLY



JUNCTION BOX ASSEMBLY

REF NO.	PART NO.	DESCRIPTION	QTY. USED
1	BOX0024597	JUNCTION BOX (AT HYD TNK)	1
2	PNL0024594	JUNCTION BOX PANEL	1
3	WLK0000100	#10 LOCKWASHER - PLATED	1
4	NFH0001032	10-32 NF HEX NUT - PLATED	2
5	WCB0001000	#10 BRASS WASHER	2
6	MSR0010140	MARKER STRIP -10 POST	1
7	BAB0010140	BARRIER BLOCK -10 POST	1
8	VAR0026921	JUNCTION BOX VARISTOR ASSY	1
9	SMR6320500	6-32 X 1/2 RH MACH SCREW-PLT	4
10	WLK0000600	#6 LOCKWASHER - PLATED	4
11	NCH0000632	6-32 NC HEX NUT - PLATED	4
12	SMR1032750	10-32X3/4 RH MACH SCREW	1
13	RNG0005262	SEALING RING F/1/2"CONNECTOR	7
14	NMS0000150	1/2" CONDUIT LOCKNUT-STEEL	7
15	CNR0020038	STRAIGHT CONNECTOR	4
16	CNR0020037	1/2"X45*LIQUID TIGHT CONNECTOR	3
17	NCH0000250	1/4" NC HEX NUT - PLATED	4
18	WLK0000250	1/4" LOCKWASHER - PLATED	4
19	WCT0000250	1/4" FLATWASHER - PLATED	4
20	SCC0010001	1/4 X 3/4 NC HT CS - PLATED	4

PLUNGER SENSOR MOUNT ASSEMBLIES

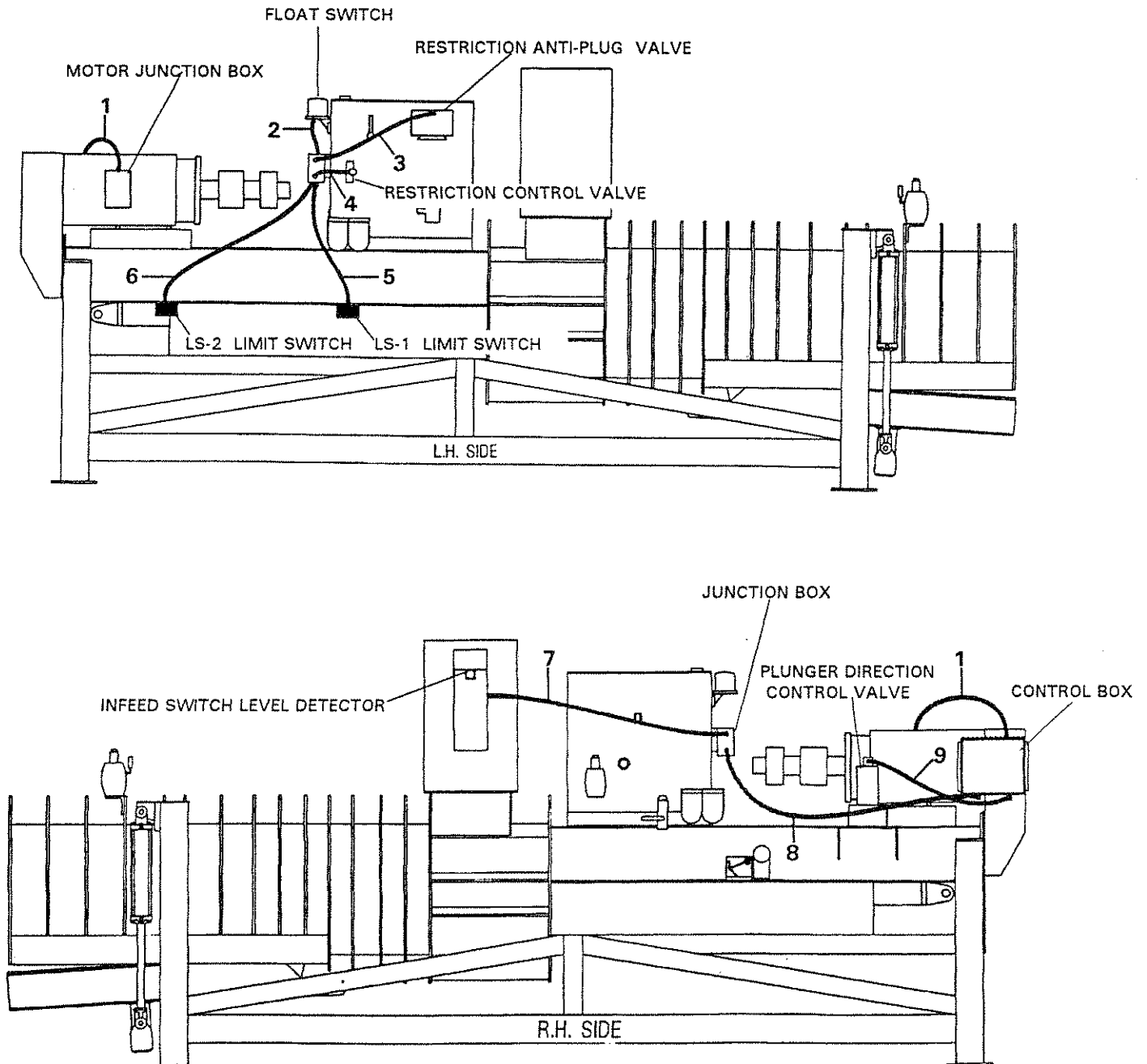


FRONT

PLUNGER SENSOR MOUNT ASSEMBLIES

REF NO.	PART NO.	DESCRIPTION	QTY. USED
1	CNR0020038	STRAIGHT CONNECTOR	2
2	SW10002047	PROXIMITY SWITCH	2
3	MNT0024568	PLUNGER SENSOR MOUNT ASSEMBLY	2
4	SMS0000107	1/4 X 1/2 NC SELF-TAP CS-PLTD	4
5	MNT0024567	PLUNGER SENSOR MOUNT COVER	2
6	NCH0000313	5/16" NC HEX NUT - PLATED	4
7	WLK0000313	5/16" MEDIUM LOCKWASHER-PLT	4
8	WCT0000313	5/16" FLATWASHER-PLATED	4
9	SCC0020002	5/16 X 1 NC HT CS - PLATED	4

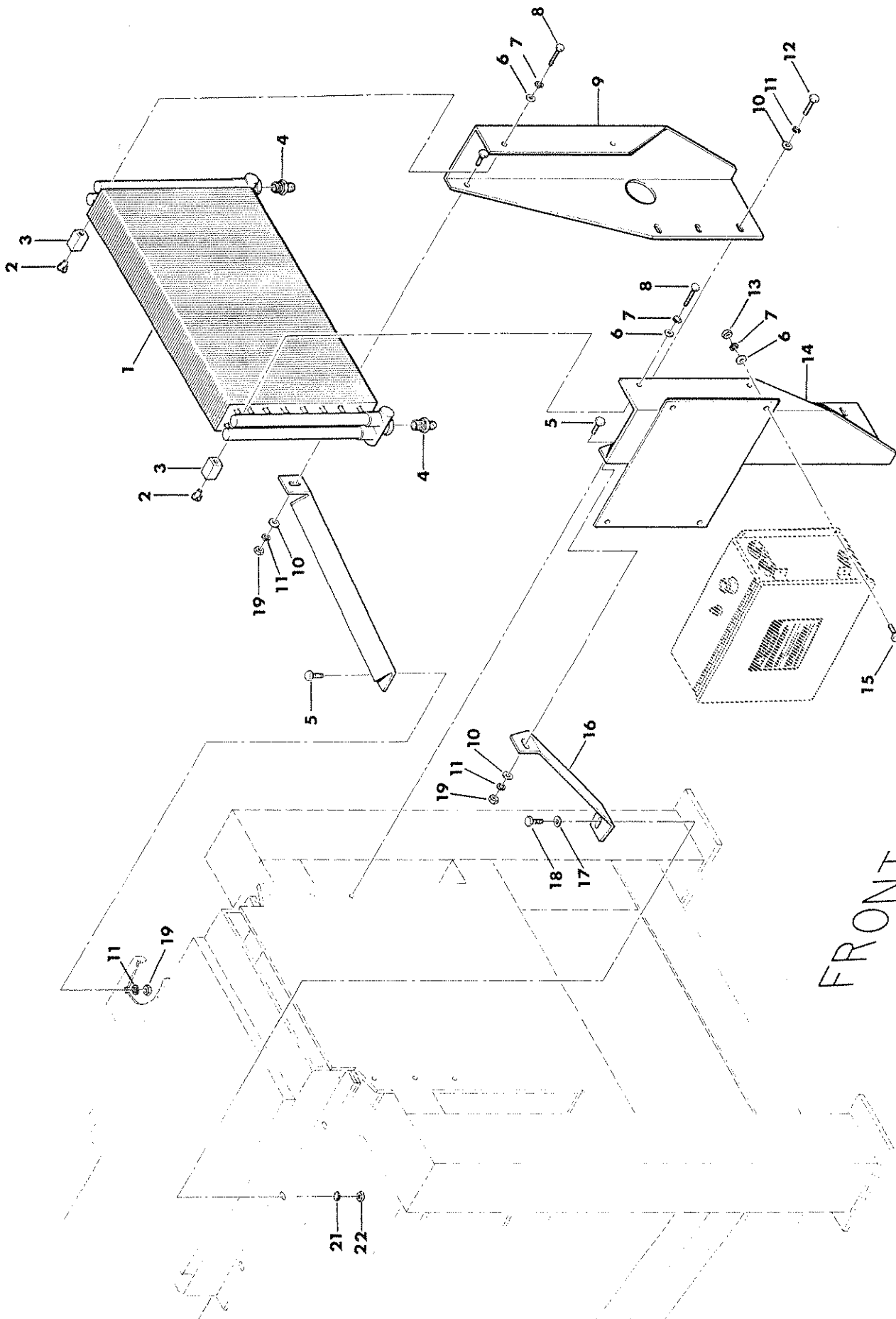
ELECTRICAL CONDUITS



ELECTRICAL CONDUITS

REF NO.	PART NO.	DESCRIPTION	QTY. USED
1	CDU0024637	MOTOR CONUIT	1
2	CDU0028324	JNK BOX TO FLOAT SW CONDUIT	1
3	CDU0024636	JNK BOX TO ANTI-PLUG VLV CONDUIT	1
4	CDU0024635	JNK BOX TO RESTRICT CNTRL VLV	1
5	CDU0024634	JNK BOX TO LS-1 CONDUIT	1
6	CDU0024633	JNK BOX TO LS-2 CONDUIT	1
7	CDU0024632	TNK JNCT TO LVL DET CONDUIT	1
8	CDU0024631	CNTL BOX TO TNK JUCTION CONDUIT	1
9	CDU0024630	CNTRL BOX TO PLNG DIRECT VLV	1

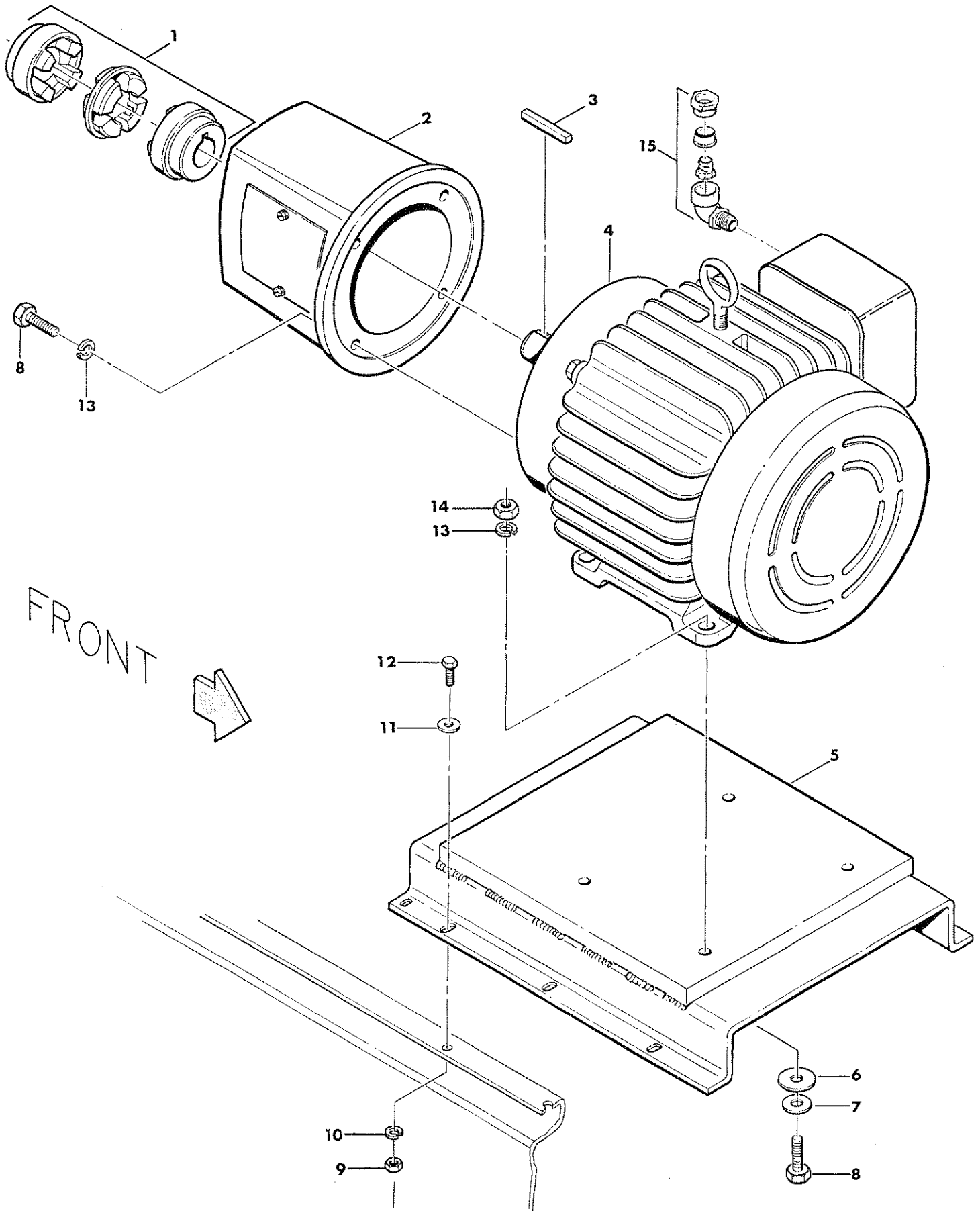
OIL COOLER AND MOUNTS



OIL COOLER AND MOUNTS

REF NO.	PART NO.	DESCRIPTION	QTY. USED
1	CLR0020833	OIL COOLER	1
2	CLR0002353	TEE NUT-OIL COOLER MOUNT	2
3	CLR0002094	MOUNTING BLOCK-OIL COOLER	2
4	F 0006675	3/4 JIC X 1" NPT MALE CONN	2
5	SCC0030003	3/8 X 1-1/4 NC HT CS - PLATED	3
6	WCT0000313	5/16" FLATWASHER-PLATED	6
7	WLK0000313	5/16" MEDIUM LOCKWASHER-PLT	6
8	SCC0020007	5/16 X 2-1/4 NC HT CS - PLATED	2
9	MNT0021894	LEFT OIL COOLER MOUNT	1
10	WCT0000375	3/8" FLATWASHER-PLATED	8
11	WLK0000375	3/8" MEDIUM LOCKWASHER-PLT	9
12	SCC0030002	3/8 X 1 NC HT CS - PLATED	6
13	NCH0000313	5/16" NC HEX NUT - PLATED	4
14	MNT0024616	RIGHT OIL COOLER MNT ASSEMBLY	1
15	SCC0020002	5/16 X 1 NC HT CS - PLATED	4
16	BRC0024886	RIGHT COOLER MNT BRACE	1
17	WCT0000500	1/2" FLATWASHER - PLATED	1
18	SCC0050004	1/2 X 1-1/2 NC HT CS - PLATED	1
19	NCH0000375	3/8" NC HEX NUT - PLATED	3
20	BRC0024936	LEFT COOLER MNT BRACE	1
21	WLK0000500	1/2" LOCKWASHER-PLATED	1
22	NCH0000500	1/2" NC HEX NUT - PLATED	1

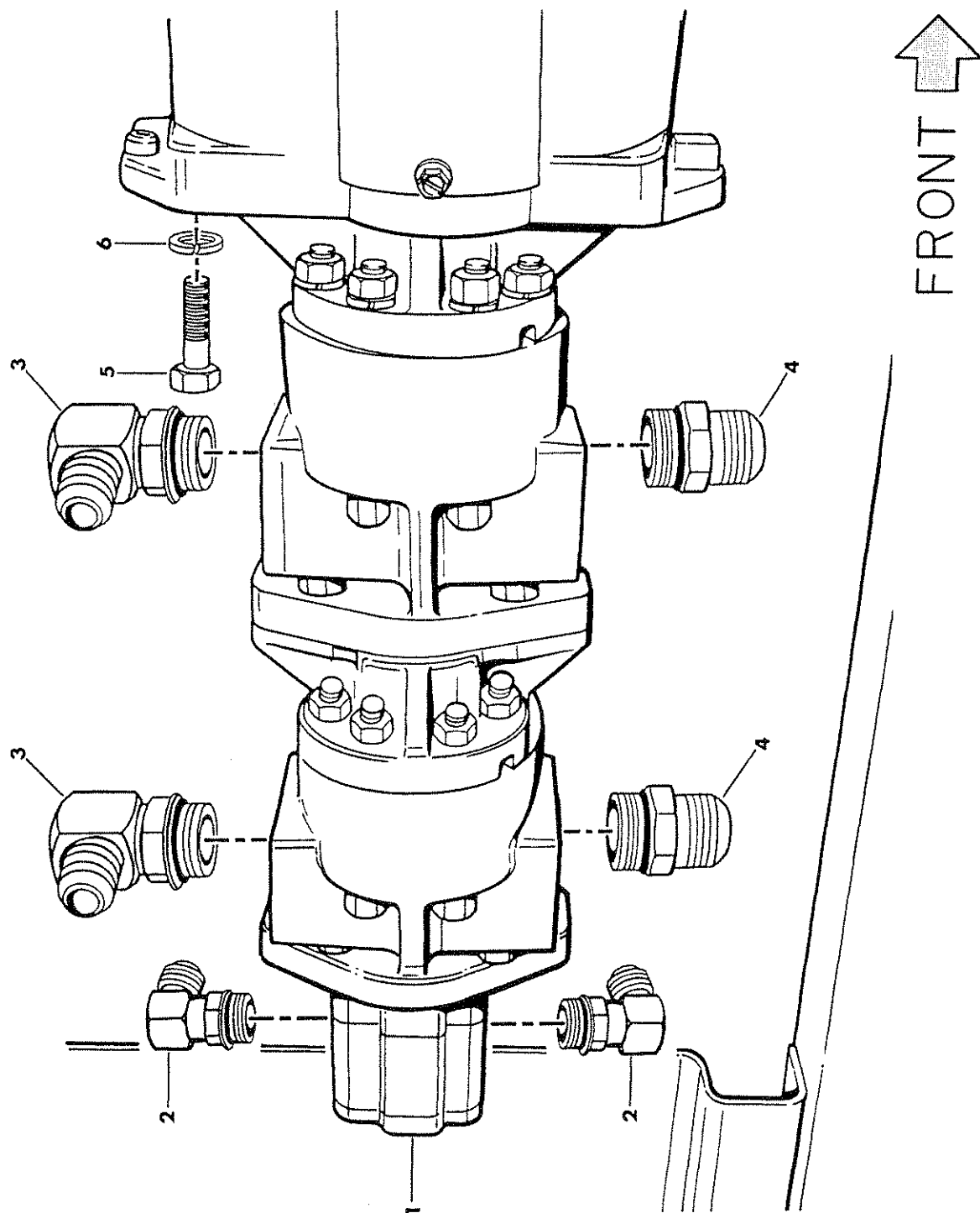
MOTOR AND PUMP MOUNTS



MOTOR AND PUMP MOUNTS

REF NO.	PART NO.	DESCRIPTION	QTY. USED
1	CPL5021251	1"X2-1/8 BORE COUPLER COMPLETE	1
2	MNT4051922	PUMP MOUNT	1
3	ZZ 0000457	1/2 X 1/2 X 2-3/4 KEY	1
4	MTR0010037	MOTOR 40HP 1750 230/460-TEFC	1
5	MNT0021991	MOTOR MOUNT	1
6	WAS0000105	5/8 STRUCTURAL WASHER	4
7	WCT0000625	5/8" FLATWASHER - PLATED	4
8	SCC0070003	5/8 X 1-1/4 NC HT CS - PLATED	8
9	NCH0000500	1/2" NC HEX NUT - PLATED	6
10	WLK0000500	1/2" LOCKWASHER-PLATED	6
11	WCT0000500	1/2" FLATWASHER - PLATED	6
12	SCC0050003	1/2 X 1-1/4 NC HT CS - PLATED	6
13	WLK0000625	5/8"MED LOCKWASHER-PLATED	8
14	NCH0000625	5/8" NC HEX NUT - PLATED	4
15	CNR0000110	1/2"LIQUID TIGHT 90* CONNECTOR	1

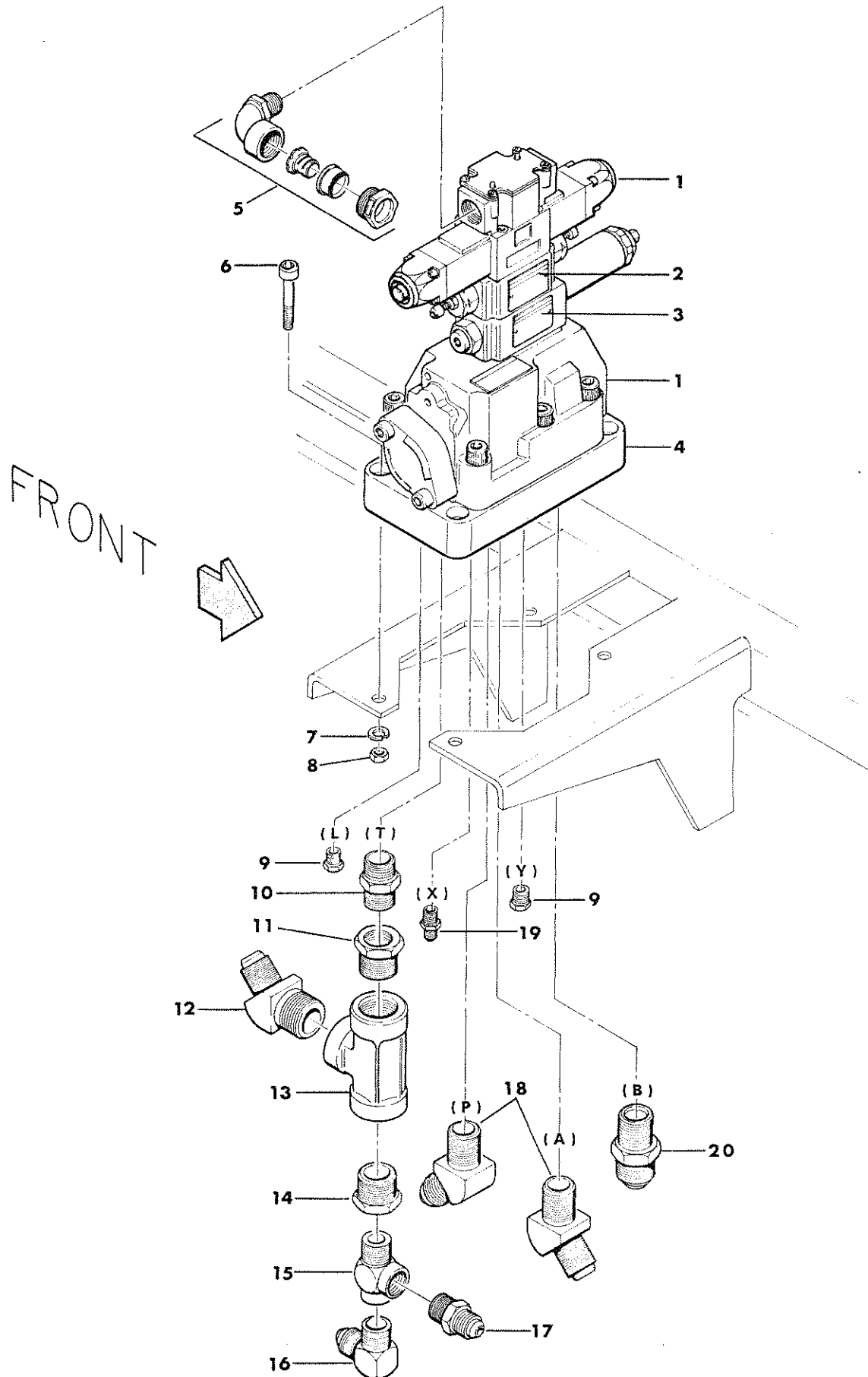
HYDRAULIC PUMP AND FITTINGS



HYDRAULIC PUMP AND FITTINGS

REF NO.	PART NO.	DESCRIPTION	QTY. USED
1	PMP0035035	SUNDSTRAND TRIPLE PUMP	1
2	HYD5515034	3/8 JIC X 1/2 O-RING 90* ELBOW	2
3	HYD5515067	3/4" X 1" O-RING 90* CONNECTOR	2
4	HYD5315110	1-1/4JIC X 1-1/4 O-RNG THD CON	2
5	SCC0000504	1/2 X 1-1/2 NC HT CAP SCREW	2
6	WLK0000500	1/2" LOCKWASHER-PLATED	2

PLUNGER DIRECTION CONTROL VALVE ASSEMBLY



PLUNGER DIRECTION CONTROL VALVE ASSEMBLY

REF NO.	PART NO.	DESCRIPTION	QTY. USED
1	VLV0422006	VALVE 4WEH22G6AW110NT	1
1	VLV0992111	SUN BOLT KIT	1
2	VLV0022FS6	VLV-ADJ PILOT CHOK-Z2FS62412QV	1
3	VLV00ZDR6D	VLV-REDUCING-ZDR6DP2-30/75YM	1
4	VLV0431242	SUBPLATE G153/5 431242	1
4	VLV0833387	BOLT KIT 0833387	1
5	CNR0000110	1/2"LIQUID TIGHT 90* CONNECTOR	1
6	SCS0000306	3/8 X 2 NC SOCKET HEAD CS	4
7	WLK0000375	3/8"MEDIUM LOCKWASHER-PLT	4
8	NCH0000375	3/8" NC HEX NUT - PLATED	4
9	HYD3159020	1/4 HEX HEAD STEEL PIPE PLUG	2
10	HYD3069070	1 NPT STEEL HEX NIPPLE	1
11	HYD3109087	1-1/4 X 1 STEEL PIPE BUSHING	1
12	HYD5355100	1-1/4JICX 1-1/4NPT 45* MALE EL	1
13	HYD3709100	1-1/4 STEEL FEMALE PIPE TEE	1
14	HYD3109086	1-1/4 X 3/4 STEEL PIPE BUSHING	1
15	HYD3759060	3/4 NPT STEEL MALE RUN TEE	1
16	HYD5405060	3/4 JIC X 3/4 NPT 90* MALE ELB	1
17	HYD5205060	3/4 JIC X 3/4 NPT MALE CONN	1
18	HYD5355080	1 JIC X 1 NPT 45* MALE ELB	2
19	FT 0000219	3/8 JIC X 1/4 NPT MALE CONN	1
20	HYD5205070	1" JIC X 1" NPT MALE CONN	1

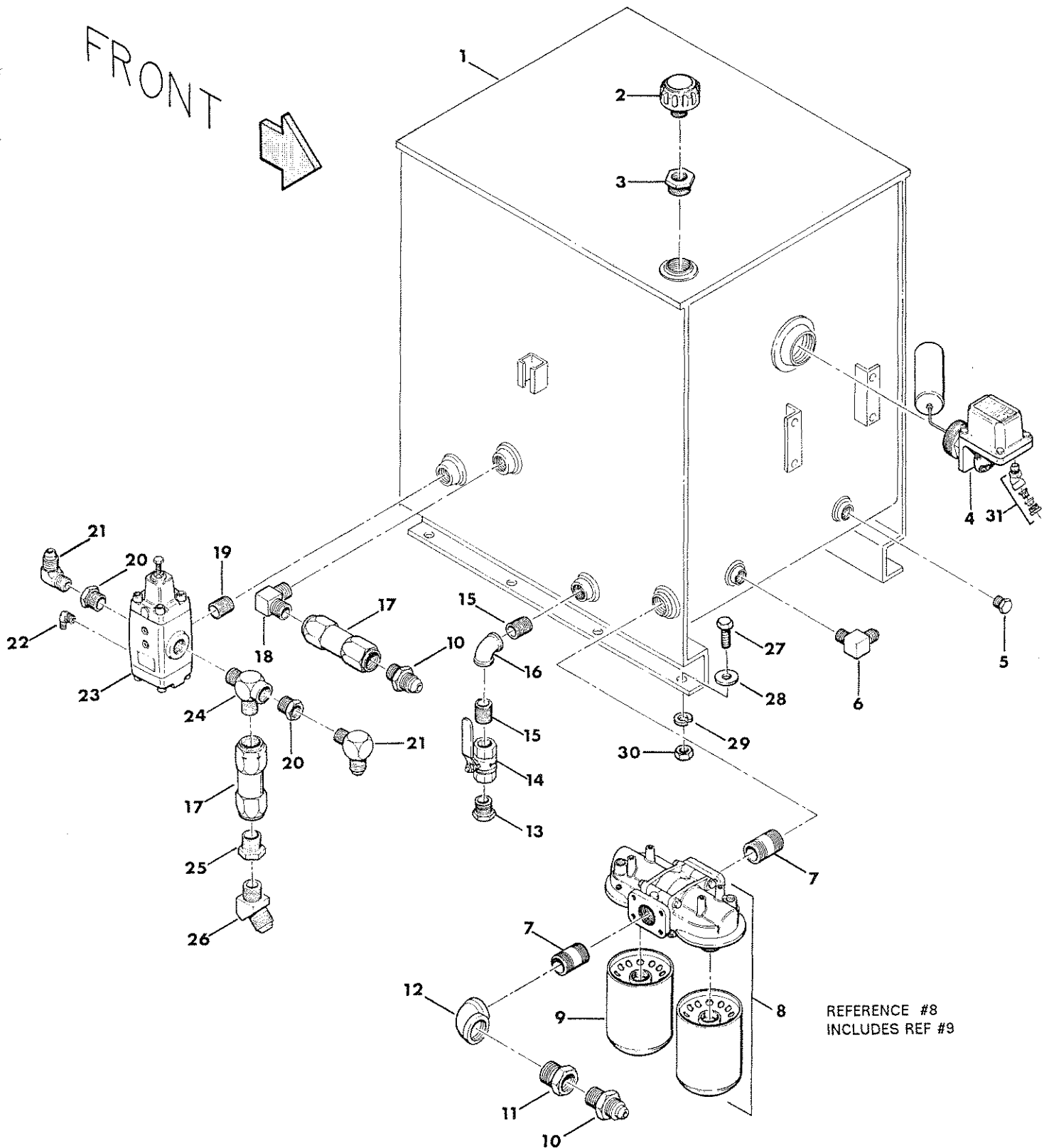
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MAIN SYSTEM RELIEF AND FLOW CONTROL VALVE ASSEMBLIES

REF NO.	PART NO.	DESCRIPTION	QTY. USED
1	HYD5205060	3/4 JIC X 3/4 NPT MALE CONN	2
2	HYD3759060	3/4 NPT STEEL MALE RUN TEE	1
3	VLV0051075	CONTROL BRAND VALVE	1
4	SCC0010008	1/4 X 2-1/2 NC HT CS - PLATED	2
5	GAG0002113	GAUGE, HYD GLYCERIN FILL 5000PS	1
6	VLV0000400	1/4 NEEDLE VALVE	1
7	F 0006638	3/8 JIC X 1/4 NPT 90* MALE ELB	3
8	HYD3959020	1/4 STEEL PIPE CROSS	1
9	HYD3069020	1/4 NPT STEEL HEX NIPPLE	1
10	HYD3209076	1 X 3/4 NPT REDUCING ADAPTER	1
11	HYD5755061	1" JIC X 1" NPT MALE RUN TEE	1
12	VLV0003500	RELIEF VALVE-RPGCQCNCED/S	1
13	HYD5405060	3/4 JIC X 3/4 NPT 90* MALE ELB	1
14	HYD3069060	3/4 NPT STEEL HEX NIPPLE	1
15	HYD5205033	3/8 JIC X 3/8 NPT MALE CONN	1
16	HYD3109063	3/4 X 3/8 STEEL PIPE BUSHING	1
17	WCT0000250	1/4" FLATWASHER - PLATED	2
18	WLK0000250	1/4" LOCKWASHER - PLATED	2
19	NCH0000250	1/4" NC HEX NUT - PLATED	2

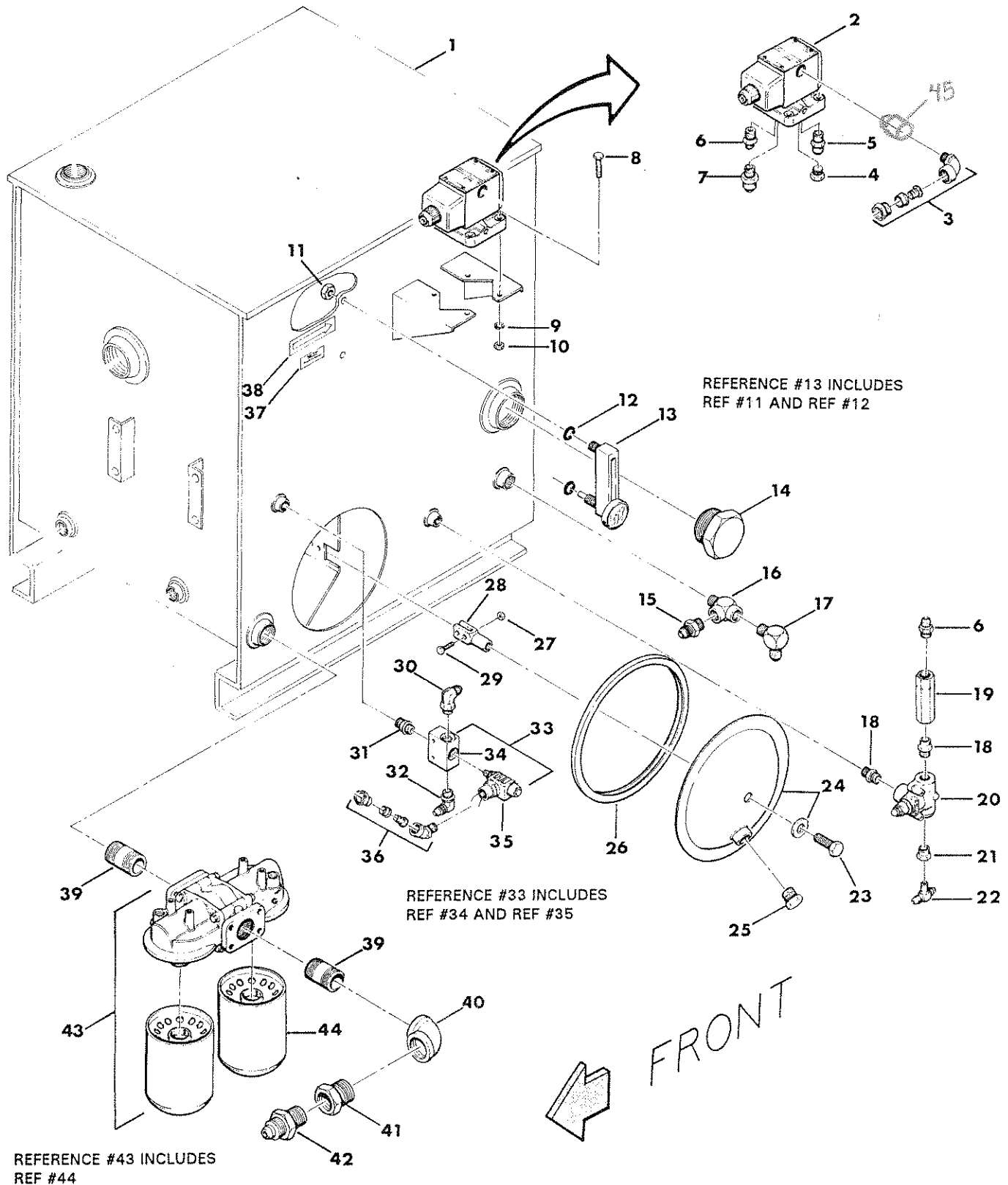
TANK HYDRAULICS (RIGHT AND FRONT SIDES)



TANK HYDRAULICS (RIGHT AND FRONT SIDES)

REF NO.	PART NO.	DESCRIPTION	QTY. USED
1	TNK0021888	HYDRAULIC TANK	1
2	FT 0000530	BREATHER CAP	1
3	HYD3109096	1-1/2 X 3/4 STEEL PIPE BUSHING	1
4	SWI0059037	FLOAT SWITCH	1
5	HYD3159060	3/4 HEX HEAD STEEL PIPE PLUG	1
6	HYD5405046	1/2 JIC X 3/4 NPT 90* MALE ELB	1
7	PPE1500250	1-1/2X2-1/2 STD BLK NIPPLE	2
8	FIL2215030	ZINGA HIGH FLOW BYPASS FILTER	1
9	01-636	ZINGA FILTER ELEMENT+RING	2
10	HYD5205100	1-1/4JIC X 1-1/4NPT MALE CONN	2
11	PPE1501250	1-1/2X1-1/4 MAL:FEM HEX BUSH	1
12	PPE0150900	1-1/2 90* STD BLK PIPE ELBOW	1
13	HYD3159070	1" HEX HEAD STEEL PIPE PLUG	1
14	VLV0006001	1" BALL VALVE BRASS	1
15	PPE0001000	1 XCLO STD BLK PIPE NIPPLE	2
16	PPE0100900	1 90* STD BLK PIPE ELBOW	1
17	VLV0125005	1-1/4 X 5 LB CHECK VALVE	2
18	HYD3529100	1-1/4" 90* MALE NPT HYD ELBOW	1
19	PPE0012500	1-1/4 XCLO XH BLK PIPE NIPPLE	1
20	HYD3109086	1-1/4 X 3/4 STEEL PIPE BUSHING	2
21	HYD5405060	3/4 JIC X 3/4 NPT 90* MALE ELB	2
22	HYD5515030	3/8 JIC X 3/8 O-RING 90* ELBOW	1
23	VLV00010D4	UNLOADER -RT-10-D4	1
24	HYD5603011	1-1/4 NPT MALE-FEM RUN TEE	1
25	HYD3109087	1-1/4 X 1 STEEL PIPE BUSHING	1
26	HYD5355080	1 JIC X 1 NPT 45* MALE ELB	1
27	SCC0050004	1/2 X 1-1/2 NC HT CS - PLATED	8
28	WCT0000500	1/2" FLATWASHER - PLATED	8
29	WLK0000500	1/2" LOCKWASHER-PLATED	8
30	NCH0000500	1/2" NC HEX NUT - PLATED	8
31	CNR0020037	1/2"X45*LIQUID TIGHT CONNECTOR	1

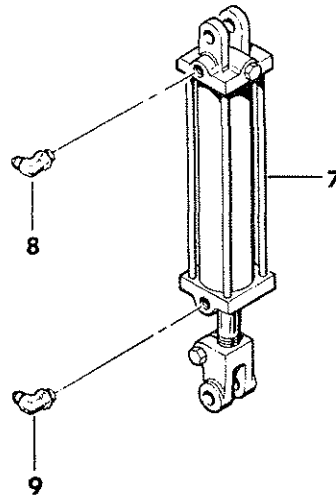
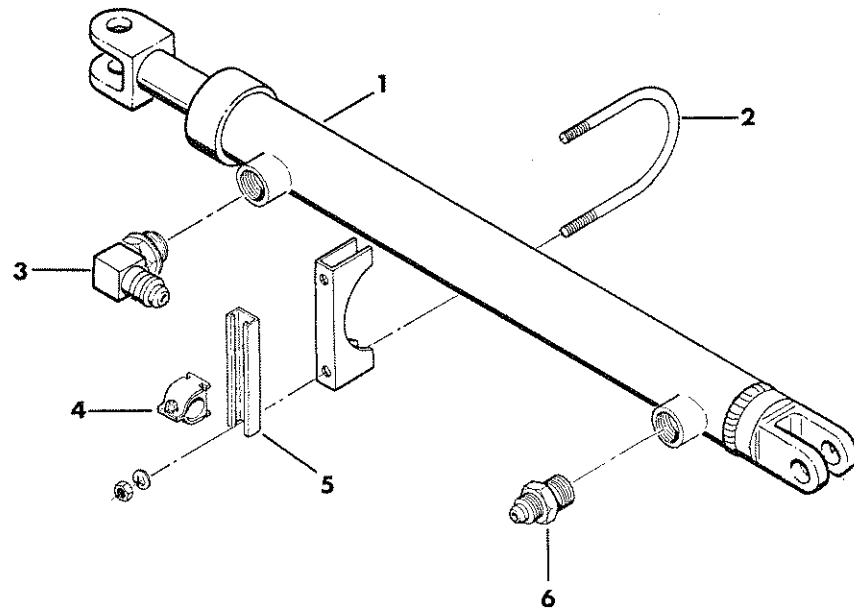
TANK HYDRAULICS (LEFT SIDE)



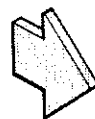
TANK HYDRAULICS (LEFT SIDE)

REF NO.	PART NO.	DESCRIPTION	QTY. USED
1	TNK0021888	HYDRAULIC TANK	1
2	KIT0083368	KIT-BOLT	1
2	VLV0000675	VALVE-SUB-PLATE F/VLV00410D5	1
2	VLV00410D5	R. R. SINGLE SOLENOID VALVE	1
3	CNR0000110	1/2" LIQUID TIGHT 90* CONNECTOR	1
4	HYD3159040	1/2 HEX HEAD STEEL PIPE PLUG	1
5	HYD5205054	5/8 JIC X 1/2 NPT MALE CONN	1
6	HYD5205034	3/8 JIC X 1/2 NPT MALE CONN	2
7	HYD5205064	3/4 JIC X 1/2 NPT MALE CONN	1
8	SCC0030005	3/8 X 1-3/4 NC HT CS - PLATED	4
9	WLK0000375	3/8" MEDIUM LOCKWASHER-PLT	4
10	NCH0000375	3/8" NC HEX NUT - PLATED	4
11	NFJ0005000	1/2" NF JAM NUT	2
12	RNG7629040	O-RING	2
13	GAG0064051	GAUGE W/STEEL DIAL THERMOMETER	1
14	PPE0025000	2 1/2" NPT STEEL HEX PLUGS	1
15	HYD5205060	3/4 JIC X 3/4 NPT MALE CONN	1
16	HYD5755060	3/4 JIC X 3/4 NPT MALE RUN TEE	1
17	HYD5405060	3/4 JIC X 3/4 NPT 90* MALE ELB	1
18	HYD3069040	1/2 NPT STEEL HEX NIPPLE	2
19	F 0006657	CHECK VALVE-5 PSI X 1/2"	1
20	VLVRD11E	VALVE RELIEF 2500#	1
21	HYD3109042	1/2 X 1/4 STEEL PIPE BUSHING	1
22	FT 0000220	3/8 JIC X 1/4 NPT MALE BR TEE	1
23	SCC0070002	5/8 X 1 NC HT CS - PLATED	1
24	CVR0000120	ACCESS HOLE COVER	1
25	PLU0000750	3/4 HEX HD MAGNETIC PIPE PLUG	1
26	GSK0000012	ACCESS HOLE COVER GASKET	1
27	NCE0000313	5/16" NC ESNA NUT - PLATED	2
28	DPT0004000	BAFFLE ADAPTER	1
29	SCC0020004	5/16 X 1-1/2 NC HT CS - PLATED	2
30	HYD5515034	3/8 JIC X 1/2 O-RING 90* ELBOW	2
31	HYD3249044	1/2 O-RING X 1/2 NPT MALE ADAP	1
32	HYD5515040	1/2 JIC X 1/2 O-RING 90* ELBOW	1
33	VLV2229500	SOLENOID VALVE	1
34	VLV0022295	VALVE BODY ONLY	1
35	VLV5081813	VALVE CARTRIDGE WITH SOLENOID	1
36	CNR0020037	1/2"X45* LIQUID TIGHT CONNECTOR	1
37	FD 0000048	DECAL-"MAINTAIN OIL LEVEL"	1
38	FD 0000044	ARROW DECAL	1
39	PPE1500250	1-1/2X2-1/2 STD BLK NIPPL	2
40	PPE0150900	1-1/2 90* STD BLK PIPE ELBOW	1
41	PPE1501250	1-1/2X1-1/4 MAL:FEM HEX BUSH	1
42	HYD5205100	1-1/4 JIC X 1-1/4 NPT MALE CONN	1
43	FIL2215030	ZINGA HIGH FLOW BYPASS FILTER	1
44	01-636	ZINGA FILTER ELEMENT+RING	2

HYDRAULIC CYLINDERS



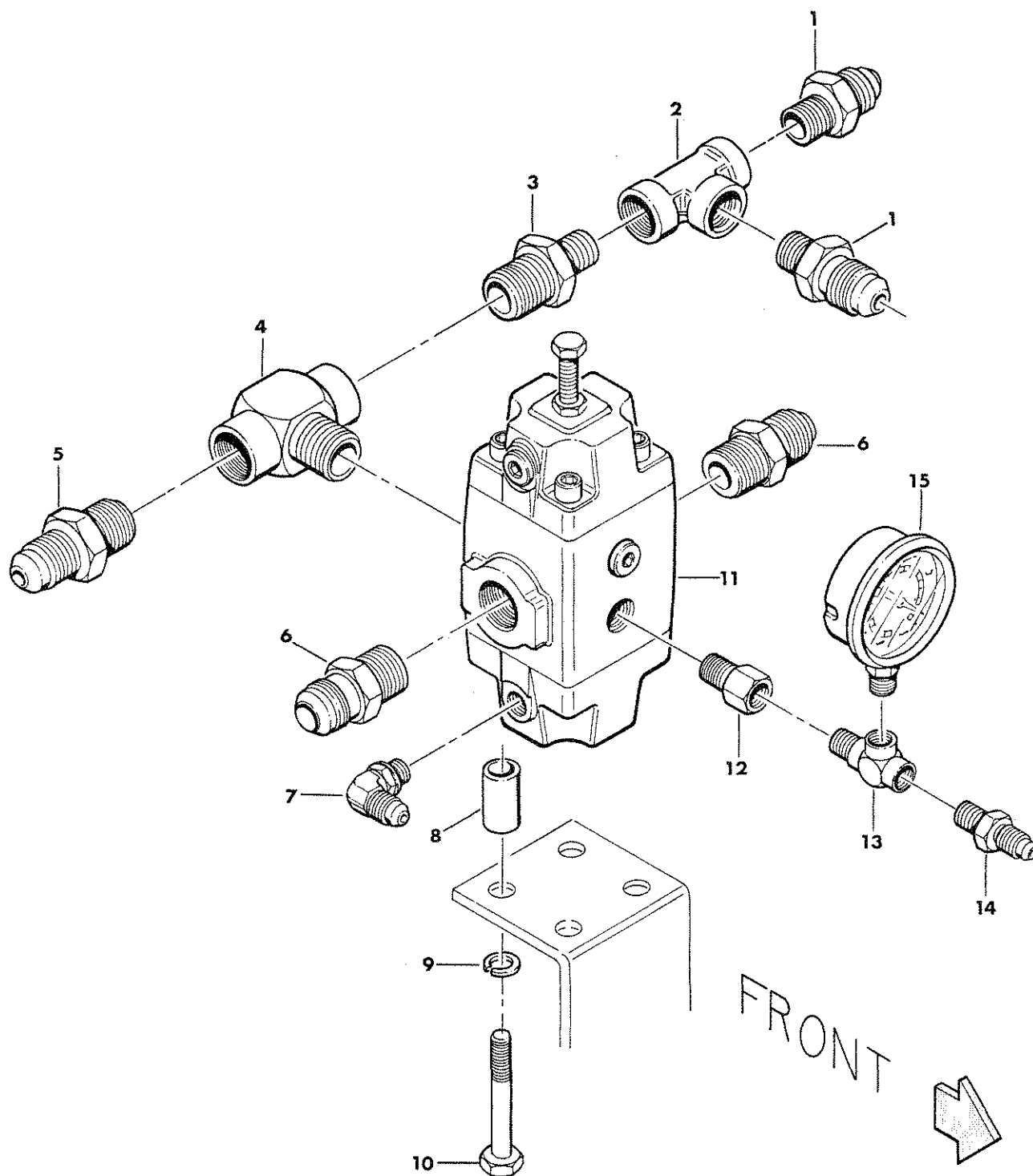
FRONT



HYDRAULIC CYLINDERS

REF NO.	PART NO.	DESCRIPTION	QTY. USED
1	CYL0024674	PLUNGER CYLINDER	1
1	SEL0024674	SEAL KIT F/CYL0024674	1
2	CLP0035775	5" H. D. EXHAUSE CLAMP	1
3	HYD5515070	1" JIC X 1" O-RING 90* ELBOW	1
4	CLP0100125	1-1/4" HYDRA ZORB HOSE CLAMP	1
5	MNT0024626	HOSE CLAMP MOUNTING CHANNEL	1
6	HYD5315080	1" JIC X 1" O-RNG ST THD CONN	1
7	CYL0003516	3.5 X 16 HYDRAULIC CYLINDER	2
7	SEL0001504	SEAL KIT F/CYL0003516	2
8	HYD5515054	5/8 JIC X 1/2 O-RING 90* ELBOW	2
9	HYD5515064	3/4 JIC X 1/2 O-RING 90* ELBOW	2

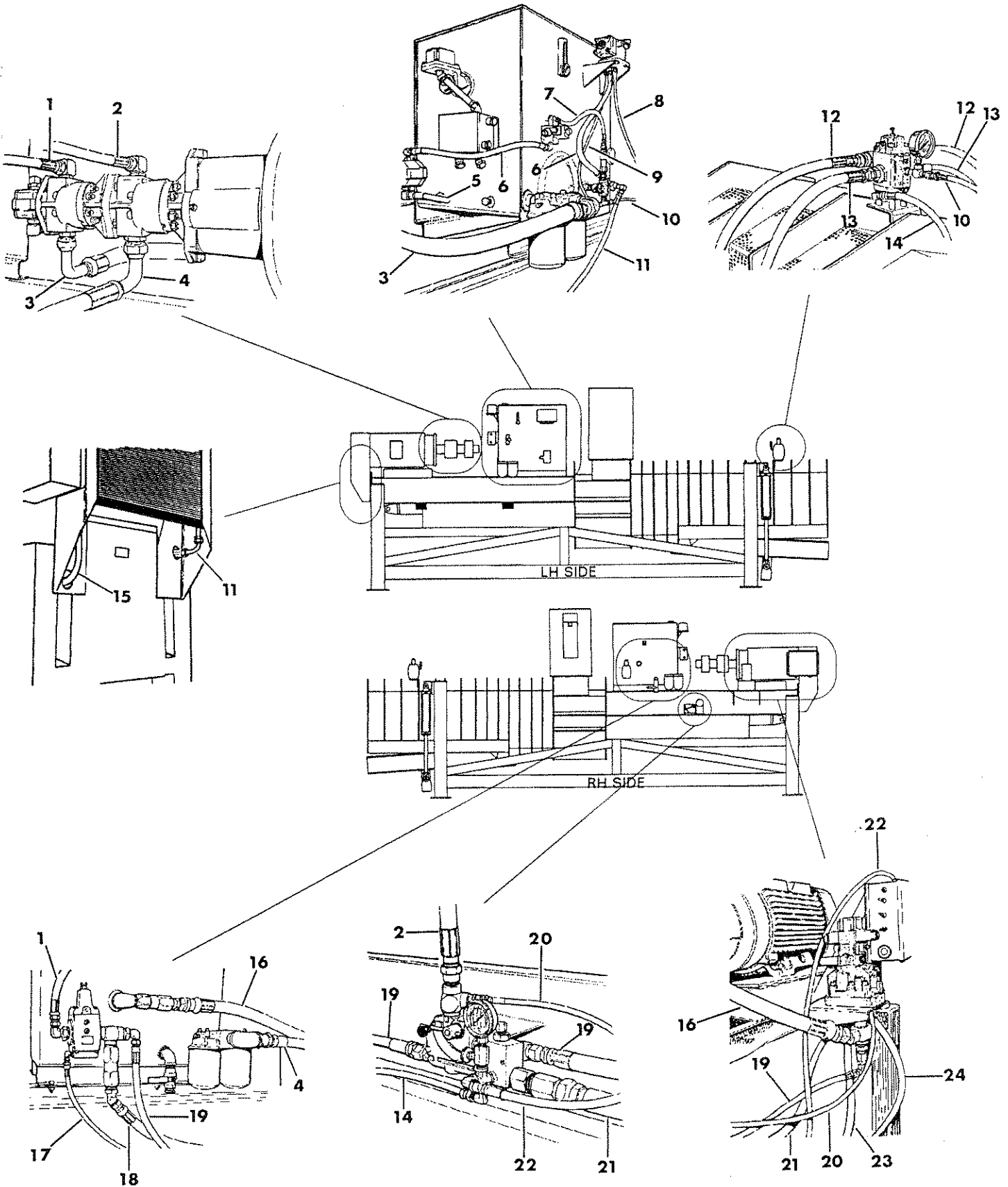
UNLOADER VALVE HYDRAULIC ASSEMBLY



UNLOADER VALVE HYDRAULIC ASSEMBLY

REF NO.	PART NO.	DESCRIPTION	QTY. USED
1	F 0006671	5/8 JIC X 1/2 NPT MALE CONN	2
2	HYD3709040	1/2 STEEL FEMALE PIPE TEE	1
3	HYD3109064	3/4 X 1/2 STEEL PIPE BUSHING	1
4	HYD3609060	3/4 NPT STEEL MALE BRANCH TEE	1
5	HYD5205056	5/8 JIC X 3/4 NPT MALE CONN	1
6	HYD5205060	3/4 JIC X 3/4 NPT MALE CONN	2
7	HYD5515030	3/8 JIC X 3/8 O-RING 90* ELBOW	1
8	F 0008175	1-1/4" SPACER	4
9	WLK0000375	3/8" MEDIUM LOCKWASHER-PLT	4
10	SCC0030009	3/8 X 2-3/4 NC HT CS - PLATED	4
11	VLV0006324	UNLOADER VLV W/ PILOT PISTON	1
12	HYD3269022	1/4 ORING X 1/4 NPT FEM ADAPT	1
13	HYD3759020	1/4 NPT STEEL MALE RUN TEE	1
14	FT 0000219	3/8 JIC X 1/4 NPT MALE CONN	1
15	GAG0002112	3000# HYDRAULIC GAUGE - 2-1/2"	1

HOSES



HOSES

REF NO.	PART NO.	DESCRIPTION	QTY. USED
1	HOS0022438	PERMCO PUMP PRESSURE HOSE	1
2	HOS0022439	PERMCO PUMP PRESSURE HOSE	1
3	HOS0024906	LEFT HAND SUCTION HOSE	1
4	HOS0022432	RIGHT HAND SUCTION HOSE	1
5	HOS0024907	RESTRICTOR PUMP SUCTION HOSE	1
6	HOS0022451	RESTRI SOLENOID RETURN HOSE	2
7	HOS0022448	RESTRICTOR VALVE SUPPLY HOSE	1
8	HOS0022453	RESTRICT UNLOADER RETURN HOSE	1
9	HOS0022449	RESTRICTOR SOLENOID PRESS HOSE	1
10	HOS0022450	RESTRICTOR UNLOADER SUPPLY HOSE	1
11	HOS0022434	OIL COOLER RETURN HOSE	1
12	HOS0022454	RESTRICTOR CYL BASE END HOSE	2
13	HOS0022455	RESTRICTOR CYL ROD END HOSE	2
14	HOS0022452	RESTRICTOR UNLOADER PILOT HOSE	1
15	HOS0022435	OIL COOLER SUPPLY HOSE	1
16	HOS0022440	MAIN VALVE RETURN HOSE	1
17	HOS0022441	UNLOADER VALVE PILOT HOSE	1
18	HOS0022443	MAIN SYSTEM SUPPLY HOSE	1
19	HOS0022442	FLOW CONTROL RETURN HOSE	2
20	HOS0022445	MAIN VALVE PILOT HOSE	1
21	HOS0022444	MAIN SYSTEM SUPPLY HOSE	1
22	HOS0024609	PRESSURE SWITCH HOSE	1
23	HOS0022447	PLUNGER CYL BASE END HOSE	1
24	HOS0022446	PLUNGER CYL ROD END HOSE	1