

MAGNUM BR SOD HARVESTER PARTS MANUAL



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MAGNUM BR SOD HARVESTER PARTS MANUAL

The purpose of this manual is for parts identification of the Magnum BR sod harvester. This manual is not to be used for assembly. This manual includes parts lists and illustrations of all available replacement parts for the Magnum BR harvesters. A table of contents is placed at the beginning of the manual for location of specific parts. Keep this manual available for reference in the shop area.

At the time of publication all information contained in this manual was technically correct. However, all materials and specifications are subject to change without notice.

Comments and suggestions about this manual may be directed to: Bucyrus Equipment Co., Inc., PO Box 156-209 Main, Hillsdale, KS 66036. Phone 1-800-330-0857

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HYDRAULICS

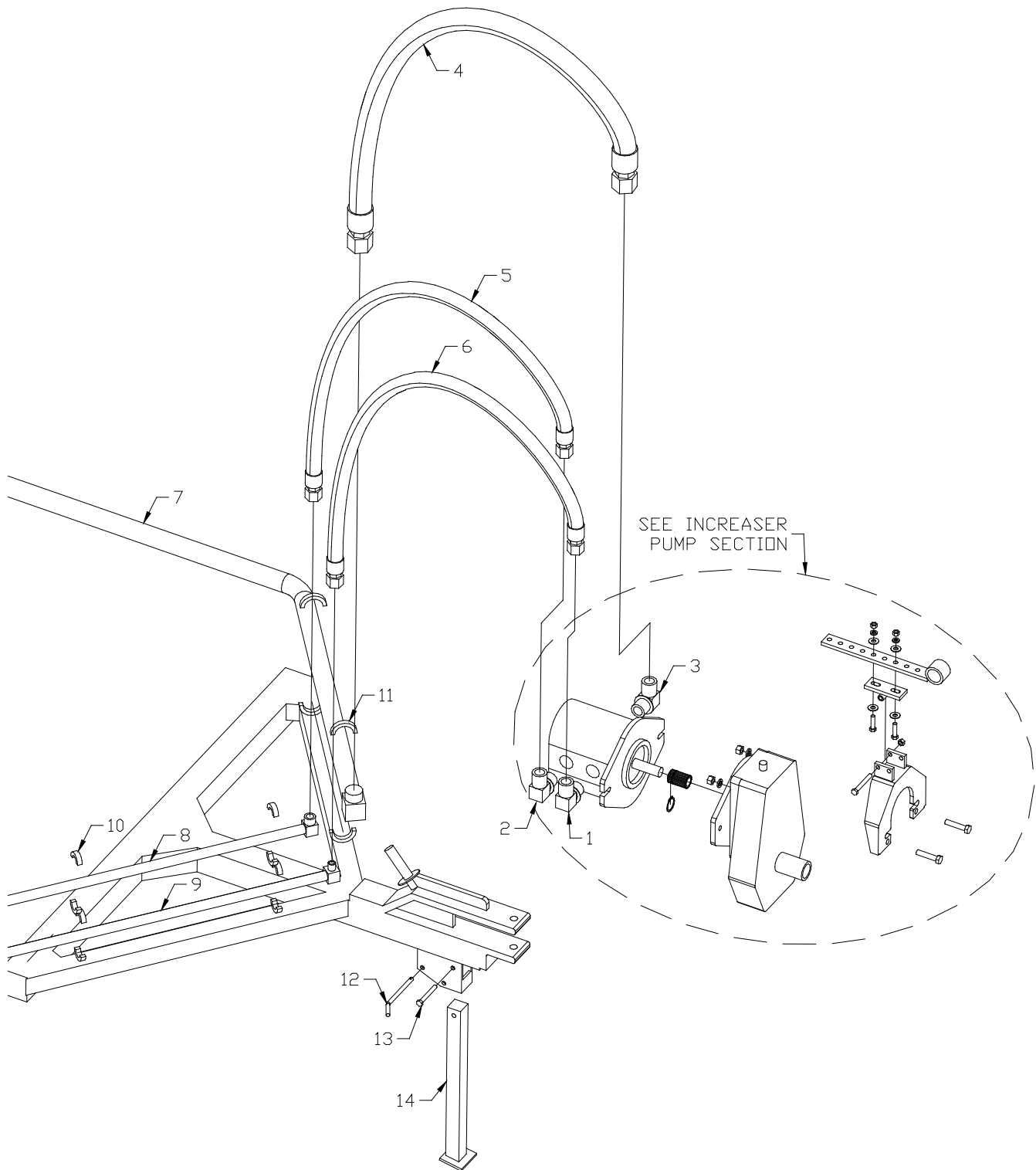
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HYDRAULICS

Hydraulic Pump & Increaser - Parts List

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	FG6801-12	Fitting
2	1	FG6801-16-12	Fitting
3	1	6801-24-20	Fitting
4	1	H-2 (42")	Suction hose 42" machine
	1	H-2-48 (48")	Suction hose 48" machine
5	1	HR-1	Pressure hose
6	1	H-1 (42")	Pressure hose 42" machine
	1	H-1-48 (48")	Pressure hose 48" machine
7	1	T-38	Hydraulic Tubing
8	1	BE-200	Hydraulic Tubing
9	1	T-20	Hydraulic Tubing
10	2	SC100	2-piece split collar
11	2	SC115	2-piece split collar
12	1	1B001	Jack stand pin
13	1	13115	3/8"-16 x 3" Zinc Finish SAE J429 Grade 5 Hex Cap Screw
	1	37264	3/8"-16 Zinc Finish Grade C Top Lock Nut
14	1	1B005	Jack stand

Hydraulic Pump & Increaser

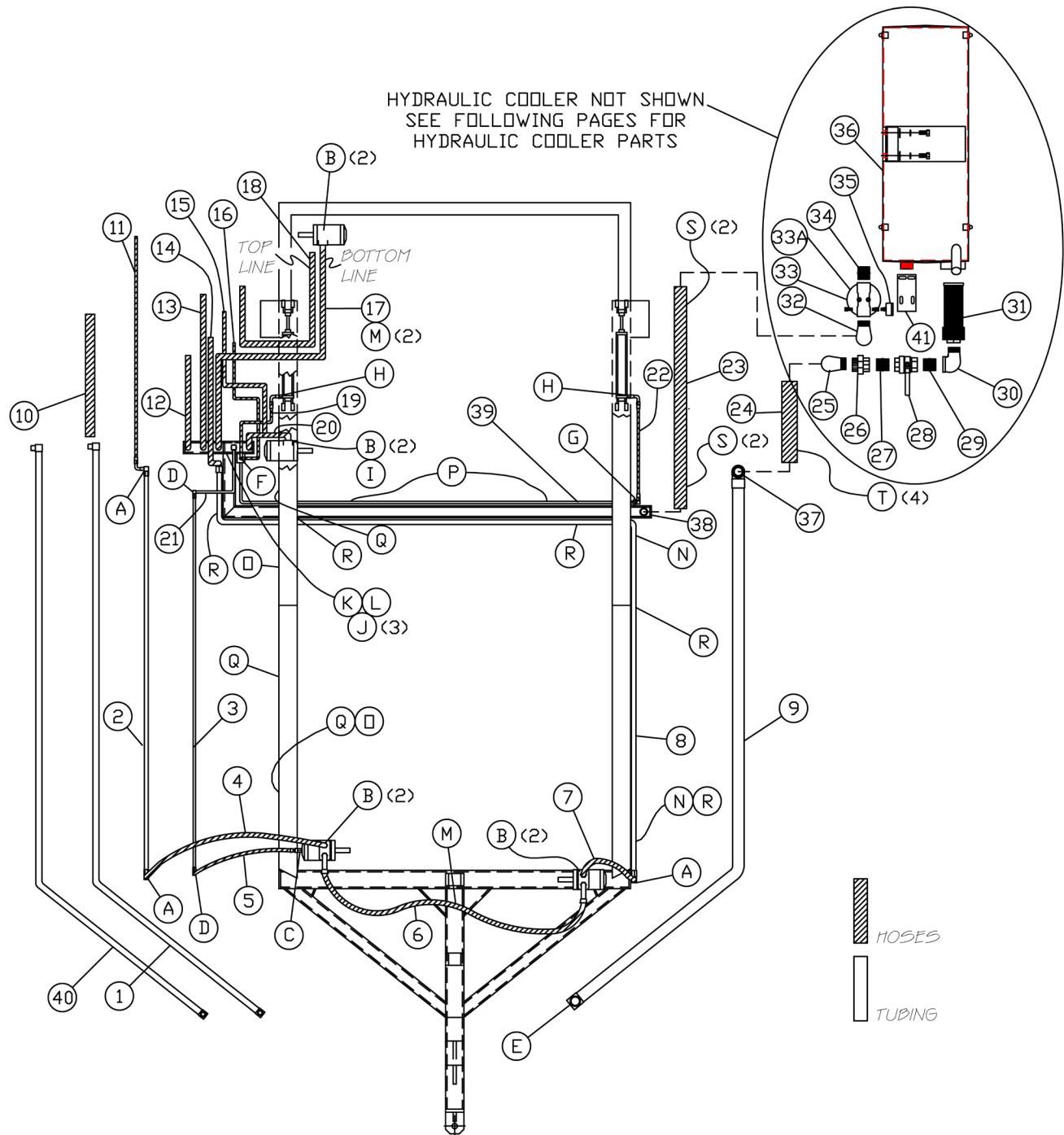


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Hydraulic Components - Parts List (Version 1)

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	T-20	Tube-fitting on each end
2	1	T-23	Tube-fitting on each end
3	1	T-24	Tube-fitting on each end
4	1	H-17	Pressure hose
5	1	H-4	Case drain hose
6	1	H-15	Pressure hose
7	1	H-17	Pressure hose
8	1	T-21	Tube
9	1	T-38	Tube
10	1	H-12	Hose
11	1	H-14	Hose
12	1	H-6	Return from relief valve
13	1	H-8	Return from block to manifold
14	1	H-12	Return from cutter heads
15	2	H-18	Pressure to lower conveyor motor
16	2	H-11	Pressure to cylinders (both)
17	2	H-5	Return line
18	2	H-16	Pressure line
19	1	H-19	Pressure cylinder
20	1	H-7	Return from lower conveyor
21	1	H-3	Return from case drain
22	1	H-10	Pressure cylinder
23	1	H-20	Hydraulic hose
24	1	H-21	Hydraulic hose
25	1	HF001	Street El
26	1	HF002	Union
27	1	HF--3	Pipe nipple
28	1	HF--4	Ball valve
29	1	HF--3	Pipe nipple
30	1	HF--1	Street El
31	1	TF-1530-3	Strainer
32	1	HF005	Street El
33	1	FPC7020	Filter head
33A	1	FPE7010N	Hydraulic Filter
34	1	HF006	Pipe nipple
35	1	P77-7004	Service filter gauge
36	1	1A100A	Hydraulic tank
37	2	STC-2520	Barb
38	2	STC-15	Barb
39	1	T-25	Tube
40	1	BE-200	Tube-fitting on each end
41	1	FS100	Filter Mounting Bracket
A	2	2500-10	Hydraulic fitting
B	8	2404-10-8	Hydraulic fitting
C	1	6801-6-4	Hydraulic fitting
D	2	2500-6	Hydraulic fitting
E	1	9A-2500-24	Hydraulic fitting
F	1	2704-LN-6	"T" Bulkhead
G	1	2701-6N-6	"L" Bulkhead
H	2	2404-4-6	Cylinder fitting
I	1	6500-10	"L" Swivel fitting
J	3	2404-10-12	Hydraulic fitting
K	1	2404-12	Hydraulic fitting
L	1	2501-6-12	Hydraulic fitting
M	3	3-HK1513	Hose bracket
N	2	5190-PP-STW-COP	Tube mount
O	2	3100-PP-STW-COP	Tube mount
P	2	0038-PP-STW-COP	Tube mount
Q	3	T2602-PP-TWP-TCP	Twin tube mount
		2038-PP-TWP-TCP	Twin tube mount
R	5	2062-PP-STW-COP	Tube mount
S	4	WGC024	Clamp
T	4	WCG036	Clamp

Hydraulic Components



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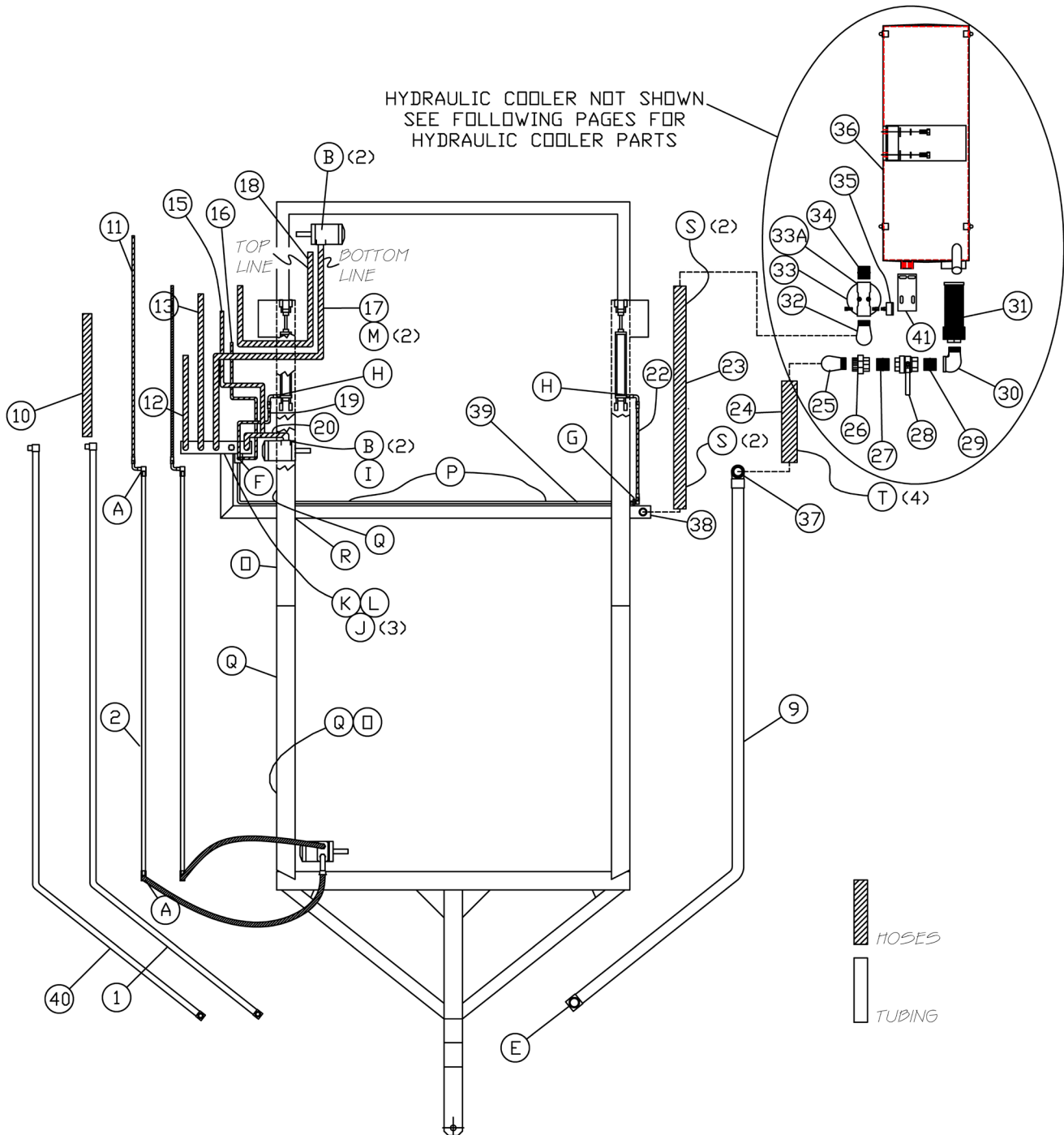
Hydraulic Components - Parts List (Version 2)

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	T-20	Tube-fitting on each end
2	2	BE-23	Tube-fitting on each end
3	1	H-2	Pressure hose
4	2	H-17	Pressure hose
5	1	H-4	Case drain hose
6	1	H-15	Pressure hose
7	1	H-13	Pressure hose
8	1	T-21	Tube
9	1	T-38	Tube
10	1	H-12	Hose
11	1	H-14	Hose
12	1	H-6	Return from relief valve
13	1	H-8	Return from block to manifold
14	1	H-12	Return from cutter heads
15	2	H-18	Pressure to lower conveyor motor
16	1	H-11	Pressure to cylinders (both)
17	1	H-5	Return line
18	1	H-15	Pressure line
19	1	H-10	Hydraulic Hose
20	1	H-6	Return from lower conveyor
21	1	H-3	Return from case drain
22	1	H-10	Pressure cylinder
23	1	H-20	Hydraulic hose
24	1	H-21	Hydraulic hose
25	1	HF001	Street El
26	1	HF002	Union
27	1	HF003	Pipe nipple
28	1	HF004	Ball valve
29	1	HF003	Pipe nipple
30	1	HF001	Street El
31	1	TF-1530-3	Strainer
32	1	HF005	Street El
33	1	FPC7020	Filter head
33A	1	FPE7010N	Hydraulic Filter
34	1	HF006	Pipe nipple
35	1	P77-7004	Service filter gauge
36	1	1A100A	Hydraulic tank
37	2	STC-2520	Barb
38	2	STC-15	Barb
39	1	T-25	Tube
40	1	BE-200	Tube-fitting on each end
41	1	FS100	Filter Mounting Bracket
A	2	2500-10-10	Hydraulic fitting
B	8	2404-10-8	Hydraulic fitting
C	1	FG6801-06-04	Hydraulic fitting
D	2	2500-6	Hydraulic fitting
E	1	9A-2500-24	Hydraulic fitting
F	1	2704-LN-6	"T" Bulkhead
G	1	2701-LN-6	"L" Bulkhead
H	2	2404-4-6	Cylinder fitting
I	1	FG6500-10-10	"L" Swivel fitting
J	3	2404-10-12	Hydraulic fitting
K	1	2404-12	Hydraulic fitting
L	1	2501-6-12	Hydraulic fitting
M	3	HK1513	Hose bracket
N	2	5190-PP	Tube mount
O	2	3100-PP-STW-COP	Tube mount
P	2	38-PP-STW-COP	Tube mount
Q	3	PP-T2602	Twin tube mount
		PP-T2038	Twin tube mount
R	5	2062-PP-STW-COP	Tube mount
S	4	WGC-24	Clamp
T	4	DL-32	Clamp

HYDRAULICS

ITEM	QTY	PART NUMBER	DESCRIPTION
U	2	2406-16-10	Hydraulic fitting

Hydraulic Components

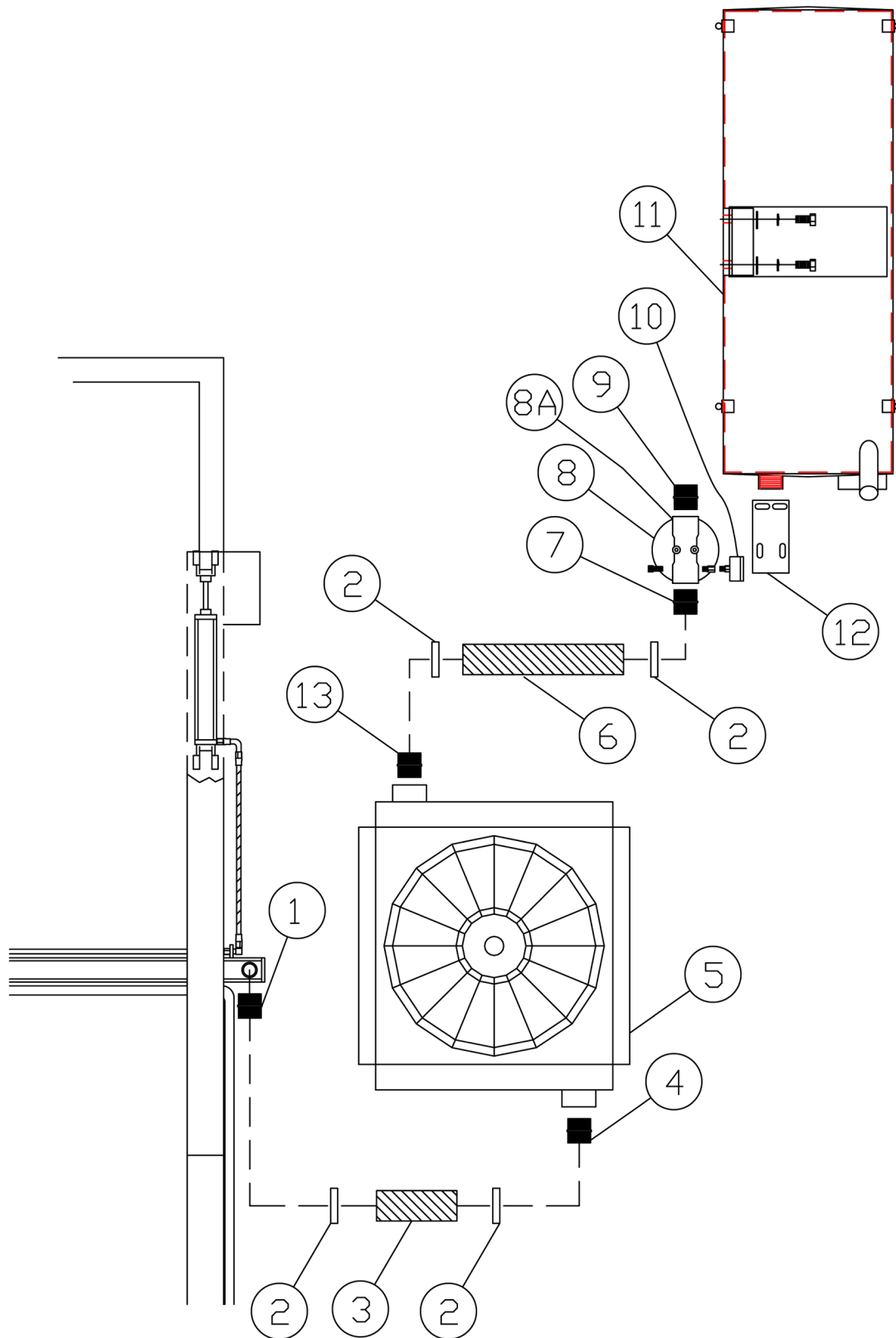


HYDRAULICS

Hydraulic Cooler (Version 1) - Parts List

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	STI2520	Fitting
2	4	TBC-175	Hose Clamp
3	1	H-22	Hose
4	2	MP2020	Fitting
5	1		Oil Cooler (See Wheel & Cooler Section for Cooler Parts)
6	1	H-20	Hose
7	1	4501-20-20	Fitting
8	1	FPC7020N10NAR4BXA/P77-7004	Filter head
8A	1	FPE7010N	Hydraulic Filter
9	1	HF006	Pipe nipple
10	1	P77-7004	Service filter gauge
11	1	1A100A	Hydraulic tank
12	1	FS100	Filter Mount
	2	13053	5/16"-18 X 3/4" CAPSCREW
	2	13055	5/16"-18 X 1" CAPSCREW
	4	33892	5/16" LOCK WASHER
	4	33858	5/16" FLAT WASHER
13	1	4444-20-20	Fitting

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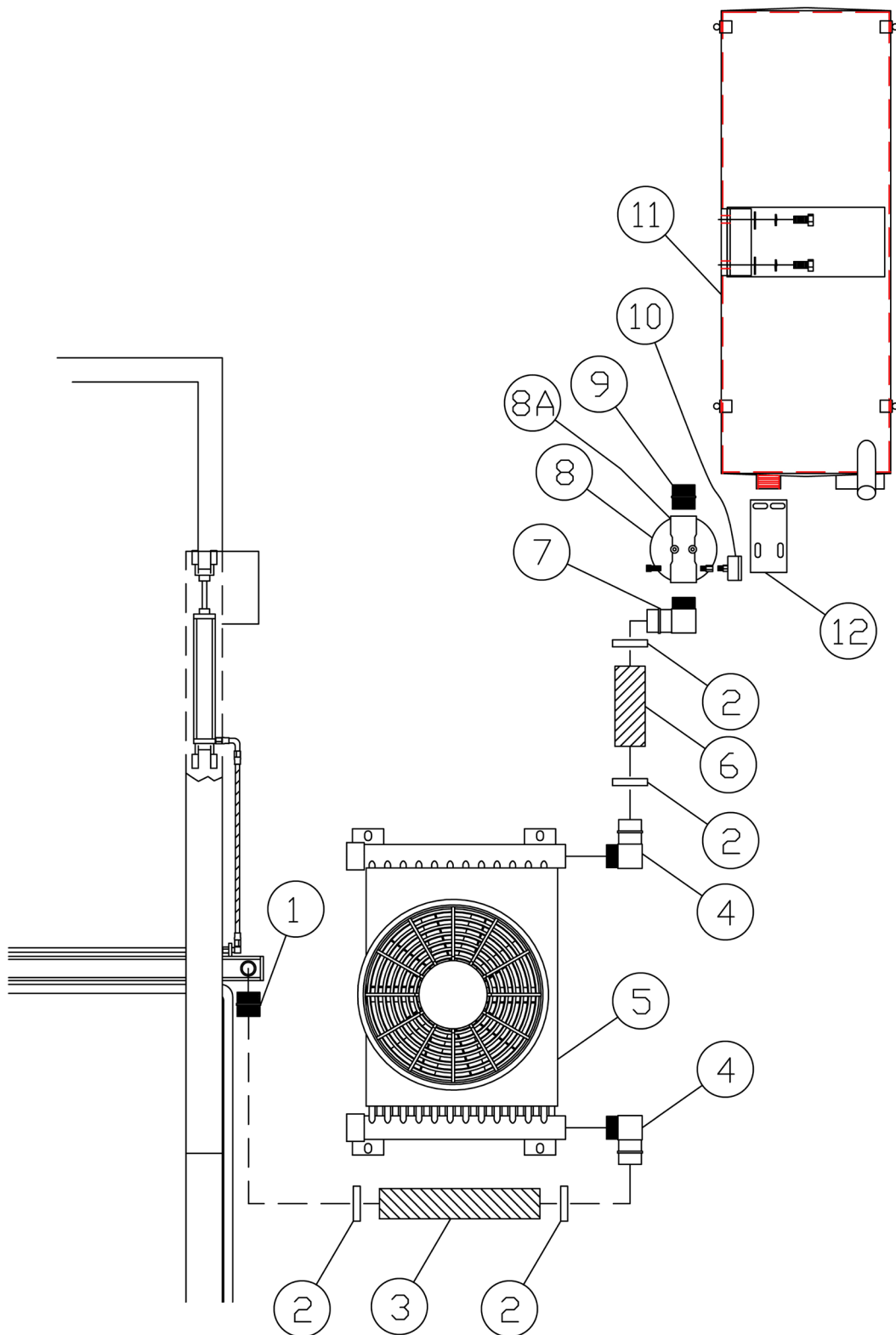


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Hydraulic Cooler (Version 2) – Parts List

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	MP2020	Fitting
2	4	TBC-175	Hose Clamp
3	1	H-23	Hose
4	2	4501-20-16	Fitting
5	1		Oil Cooler (See Wheel & Cooler Section for Cooler Parts)
6	1	H-24	Hose
7	1	4501-20-20	Fitting
8	1	FPC7020N10NAR4BXA/P77-7004	Filter head
8A	1	FPE7010N	Hydraulic Filter
9	1	HF006	Pipe nipple
10	1	P77-7004	Service filter gauge
11	1	1A100A	Hydraulic tank
12	1	FS100	Filter Mount

Hydraulic Cooler (Version 2)

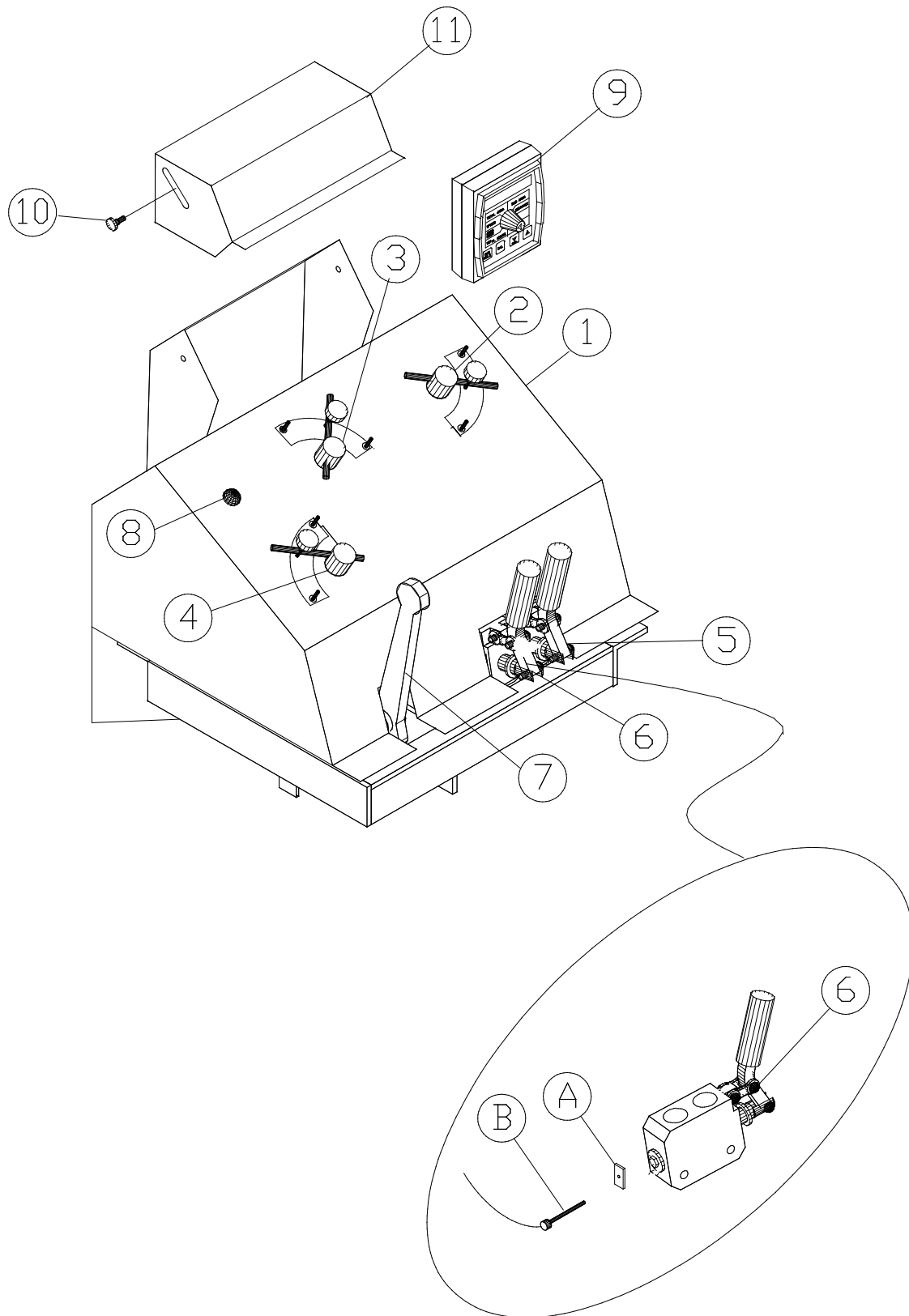


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Hydraulic Control Panel - Parts List

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	2336B	Control Panel Shield
2	1	H0002	Flow Control-cutter heads
3	1	H0002	Flow Control-lower conveyor
4	1	H0002	Flow Control-upper conveyor
5	1	H0004-R	Selector valve-cutter heads and lower conveyor
6	1	H0004-L	Selector valve-upper conveyor
7	1	H0003	Selector valve - Up and down upper conveyor
8	1	STDSSB5	Horn button
9	1	000102-BR	Counter
10	2	KB100	Cover Knob
11	1	LB037-1	Counter Hood
A	1	10012	Magnet
B	1	1309-3ASSM	Counter proximity switch

Hydraulic Control Panel

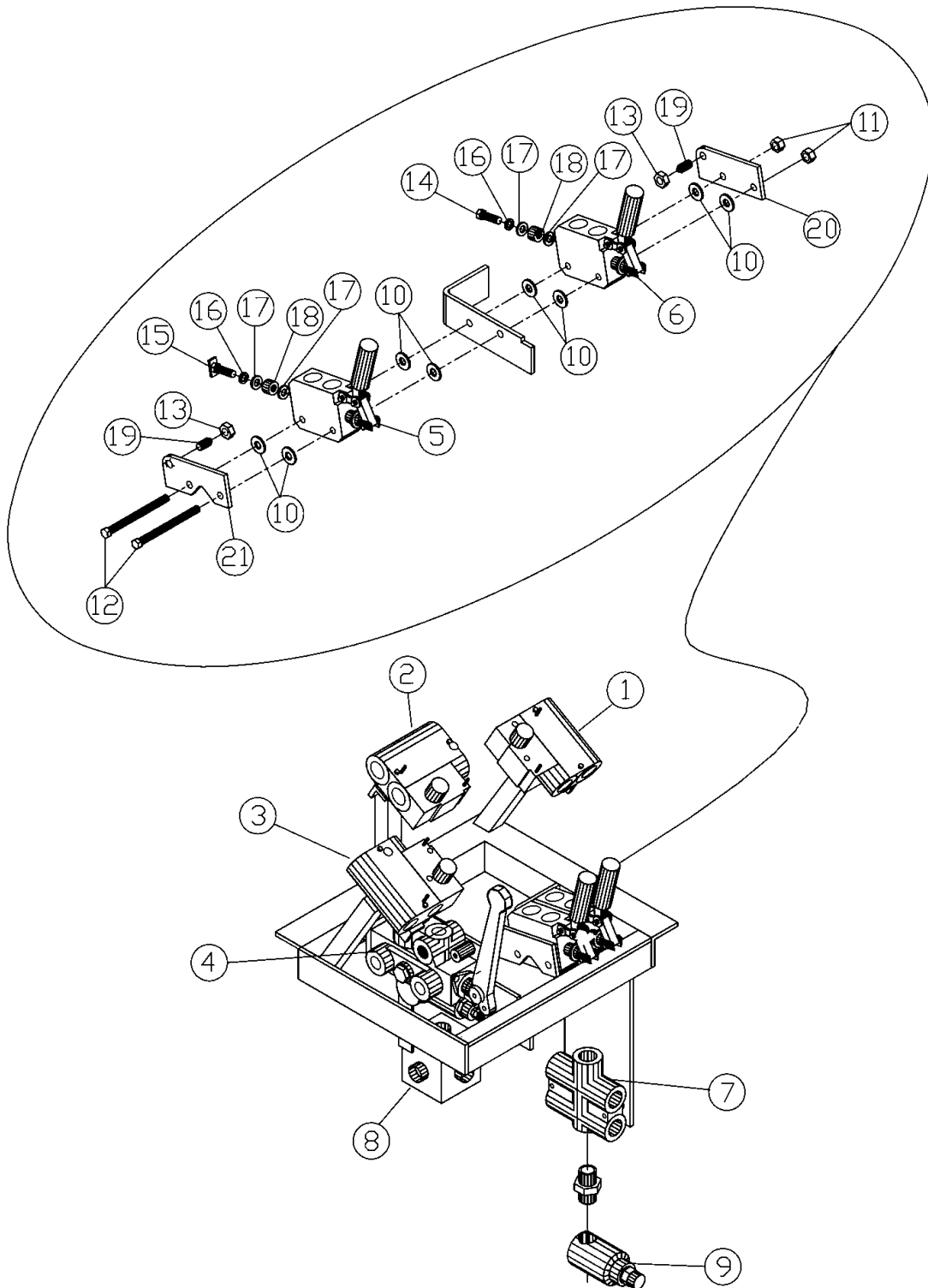


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Hydraulic Control Panel - Parts List

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	H0002	Flow Control Valve
2	1	H0002	Flow Control Valve
3	4	H0002	Flow Control Valve
4	2	H0003	Selector Valve
5	4	H0004-R	Selector Valve
6	4	H0004-L	Selector Valve
7	2	TPK105	Relief Valve Mount
8	1	1P001	Aluminum Manifold Block
9	4	H0006	Relief Valve
10	8	33859	3/8" Yellow Zinc Finish USS Thru-Hardened Flat Washer
11	2	37264	3/8"-16 Zinc Finish Grade C Top Lock Nut
12	2	13122	3/8"-16 x 4-3/4" Grade 5 Zinc Finish Hex Cap Screw
13	2	36210	1/2"-13 Zinc Plated Hex Jam Nut
14	1	17107	3/8"-24 x 1-1/4" Grade 5 Zinc Finish Hex Cap Screw
15	1	10012B	3/8" x 1 1/4" Bolt (NF) w/ Magnet
16	2	33893	3/8" Yellow Zinc Finish High Alloy Medium Split Lock Washer
17	4	33858	5/16" Thru-Hard Yel Zinc Fin Steel USS Flat Washer
18	2	X032	Spacer
19	2	DETBALL	Detent ball
20	1	X030	Plate for detent
21	1	X031	Plate for detent

Hydraulic Control Panel



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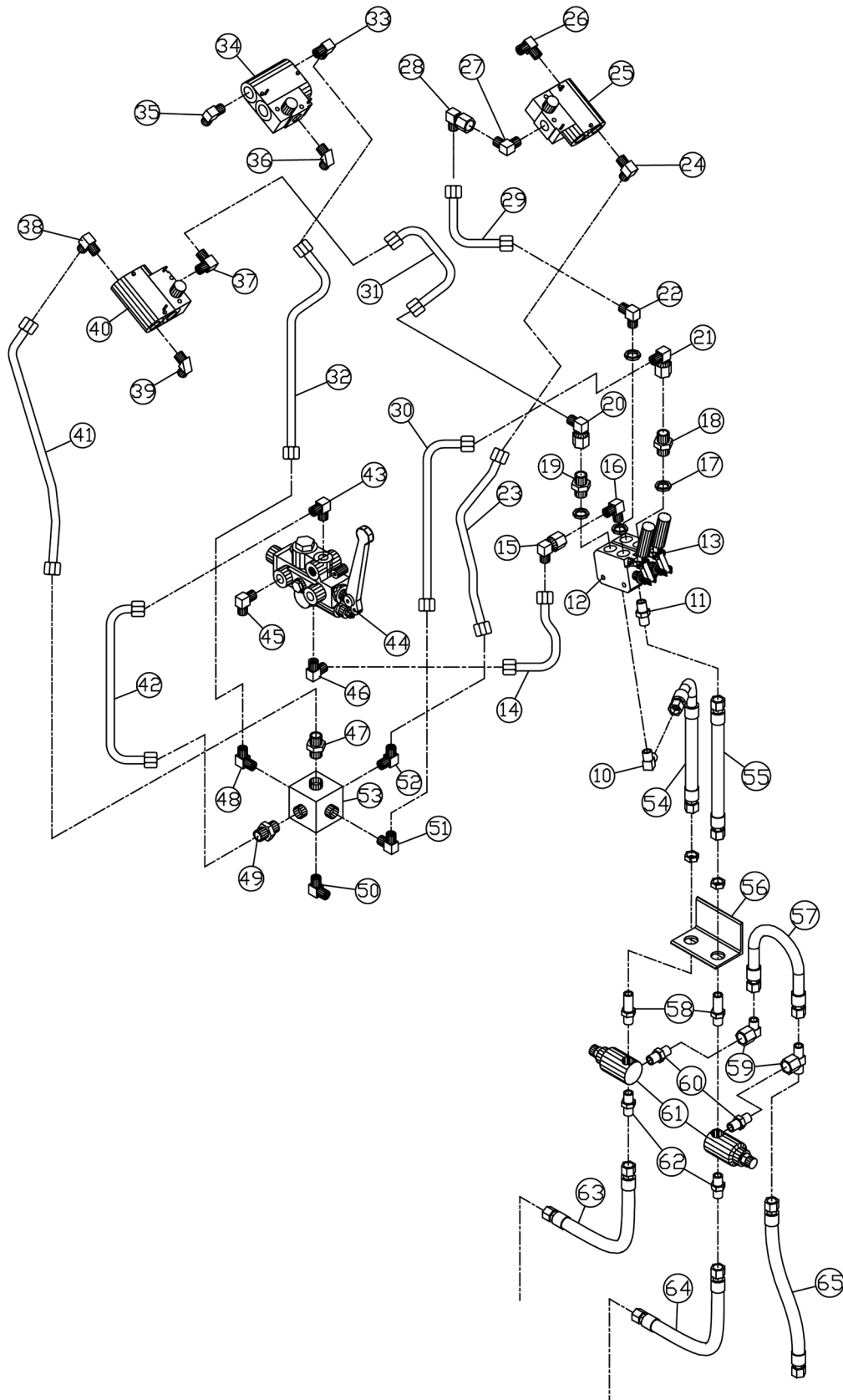
Hydraulic Control Panel Hardlines/Hoses - Parts List

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	TPK105	Relief valve mount
2	1	BE36	5/8" tube
3	1	H0006	Relief valve
4	1	HR-3	Hose
5	1	H-12	Hose
6	1	H-6	Hose
7	1	2404-10-12	Hydraulic fitting
7A	1	2404-12	Hydraulic fitting
7B	2	2405-10-8	Hydraulic fitting
7C	1	FG6600-10-10-10	Hydraulic fitting
7D	1	FG6500-10-10	Hydraulic fitting
7E	2	2706-LN-12-12	Hydraulic fitting
8	1	CP-1	Hose
9	1	CP-2	Hose
10	1	2501-10-8	Hydraulic fitting
11	1	2404-10-8	Hydraulic fitting
12	1	H0004	Left selector valve
13	1	H0004	Right selector valve
14	1	T-28	Tube
15	1	6500-8	Hydraulic fitting
16	1	2501-8-8	Hydraulic fitting
17	1	63059x8	Seal nut
18	1	2404-10-8	Hydraulic fitting
19	1	2404-10-8	Hydraulic fitting
20	1	6500-10-10	Hydraulic fitting
21	1	FG6500-10-10	Hydraulic fitting
22	1	2501-10-8	Hydraulic fitting
23	1	T-35	Tube
24	1	2501-10-8	Hydraulic fitting
25	1	H0002	Flow control
26	1	2501-10-8	Hydraulic fitting- connects w/ #11, page 5
27	1	2501-10-8	Hydraulic fitting
28	1	6500-10	Hydraulic fitting
29	1	T-30	Tube
30	1	T-27	Tube
31	1	T-32	Tube
32	1	T-33	Tube
33	1	2501-8-8	Hydraulic fitting
34	1	H0002	Flow control
35	1	2501-10-8	Hydraulic fitting- connects w/ #15, page 5
36	1	2503-10-8	Hydraulic fitting- connects w/ #14, page 5
37	1	2501-10-8	Hydraulic fitting
38	1	2501-8-8	Hydraulic fitting
39	1	2503-10-8	Hydraulic fitting- connects w/ #18, page 5
40	1	H0002	Flow control
41	1	T-34	Tube
42	1	T-26	Tube
43	1	2581-8-12	Hydraulic fitting
44	1	H0003	Selector valve
45	1	2501-6-8	Hydraulic fitting- connects w/ #16, page 5
46	1	2501-8-12	Hydraulic fitting
47	1	2404-8-8	Steel block fitting
47A	1	6400-08-08	Aluminum block fitting
48	1	2501-8-8	Steel block fitting
48A	1	6801-08-08	Aluminum block fitting
49	1	2404-8-8	Steel block fitting
49A	1	6400-8-8	Aluminum block fitting
50	1	2503-12-12	Steel block fitting
50A	1	6802-12-12	Aluminum block fitting
51	1	2501-10-8	Steel block fitting
51A	1	6801-10-8	Aluminum block fitting
52	1	2501-10-8	Steel block fitting
52A	1	6801-8-8	Aluminum block fitting
53	1	1P001	Aluminum manifold block

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ITEM	QTY	PART NUMBER	DESCRIPTION
54	1	CP-2	PRESSURE HOSE
55	1	CP-1	PRESSURE HOSE
56	1	TPK105	ANGLE BRKT FOR TANDEM PUMP
57	1	BE36	U-SHAPED HARD LINE
58	2	2706-LN-12-12	BULKHEAD FITTINGS
59	2	6600-10-10-10	Steel block fitting
60	2	2404-10-08	Steel block fitting
61	2	RL-75	RELIEF VALVE
62	2	2404-10-12	Steel block fitting
63	1	H-12	HOSE
64	1	HR-2	HOSE
65	1	H-6	HOSE

Hydraulic Control Panel Hardlines/Hoses



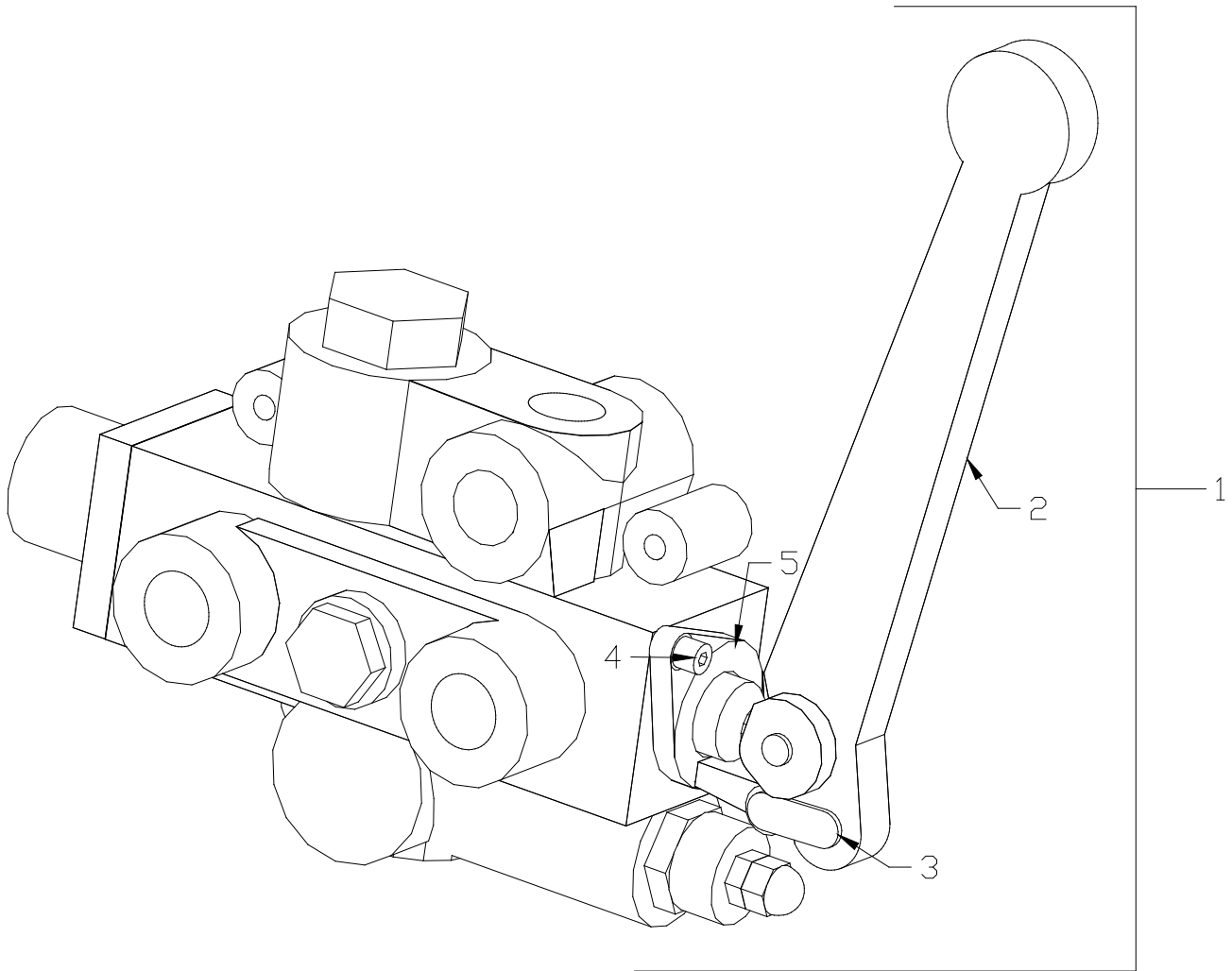
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H0003 Selector Valve - Parts List

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	H0003	Selector Valve
2	1	H0003HAN	Handle
3	1	SBA1-MLINK-1V1701	Master Link
4	2	2A0079-404N	Cap screw
5	1	4Z4306	Keeper
6	1	2A0283-7214	Spool O-Ring
Repair Kit			
		2V008	Seal Kit



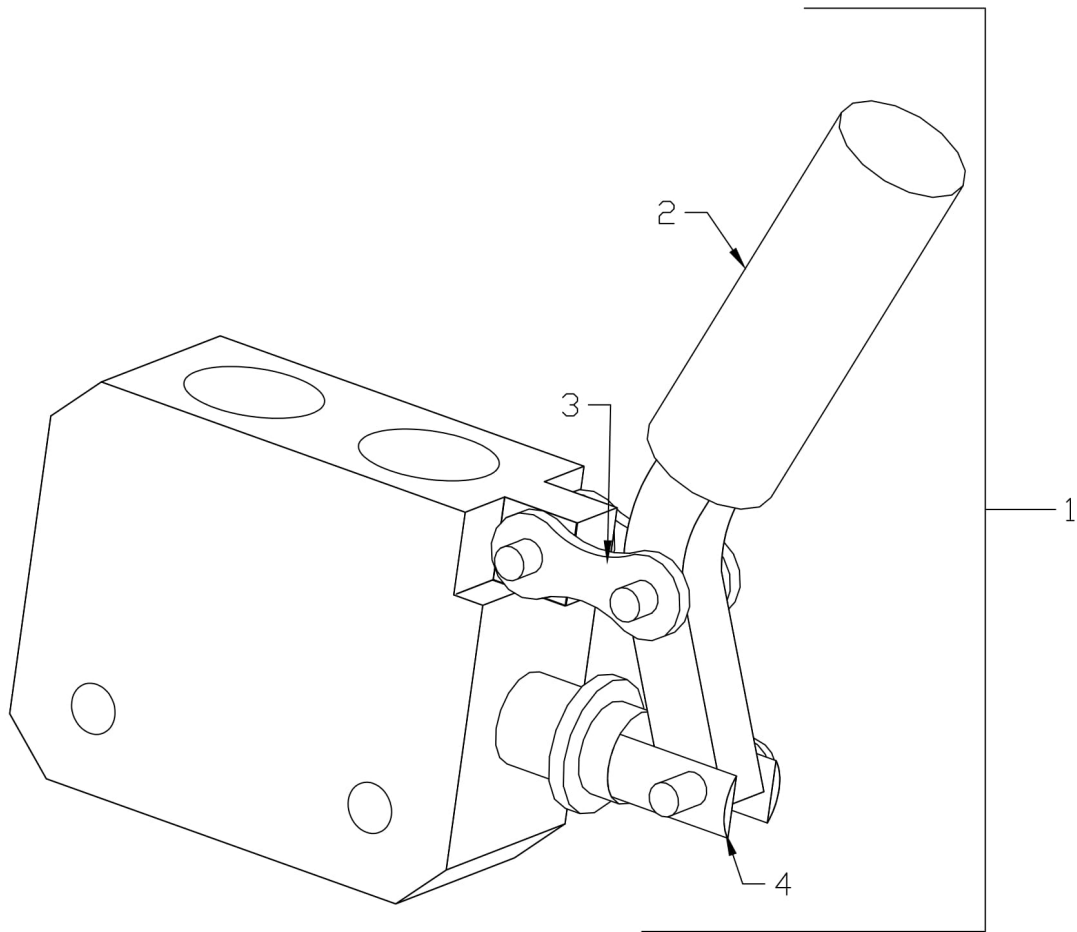
H0003 Selector Valve



H0004 Selector Valve - Parts List

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	H0004	Selector Valve
2	1	H0004HAN	Handle
3	2	80414	Cotter pin
4	1	80409	Clevis Pin
5	1	A3134	Clevis
6	1	H0004-OR	O-ring

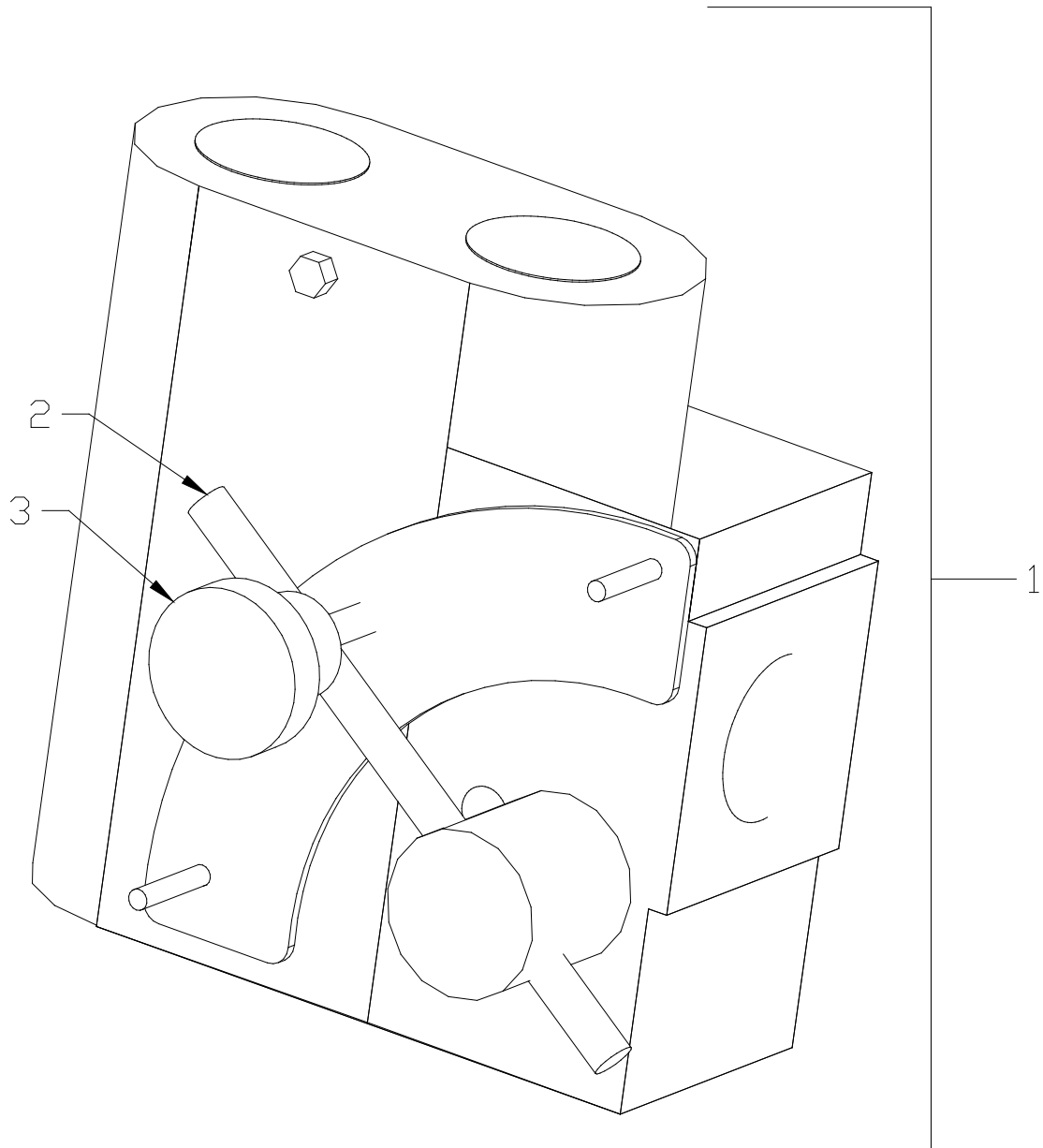
H0004 Selector Valve



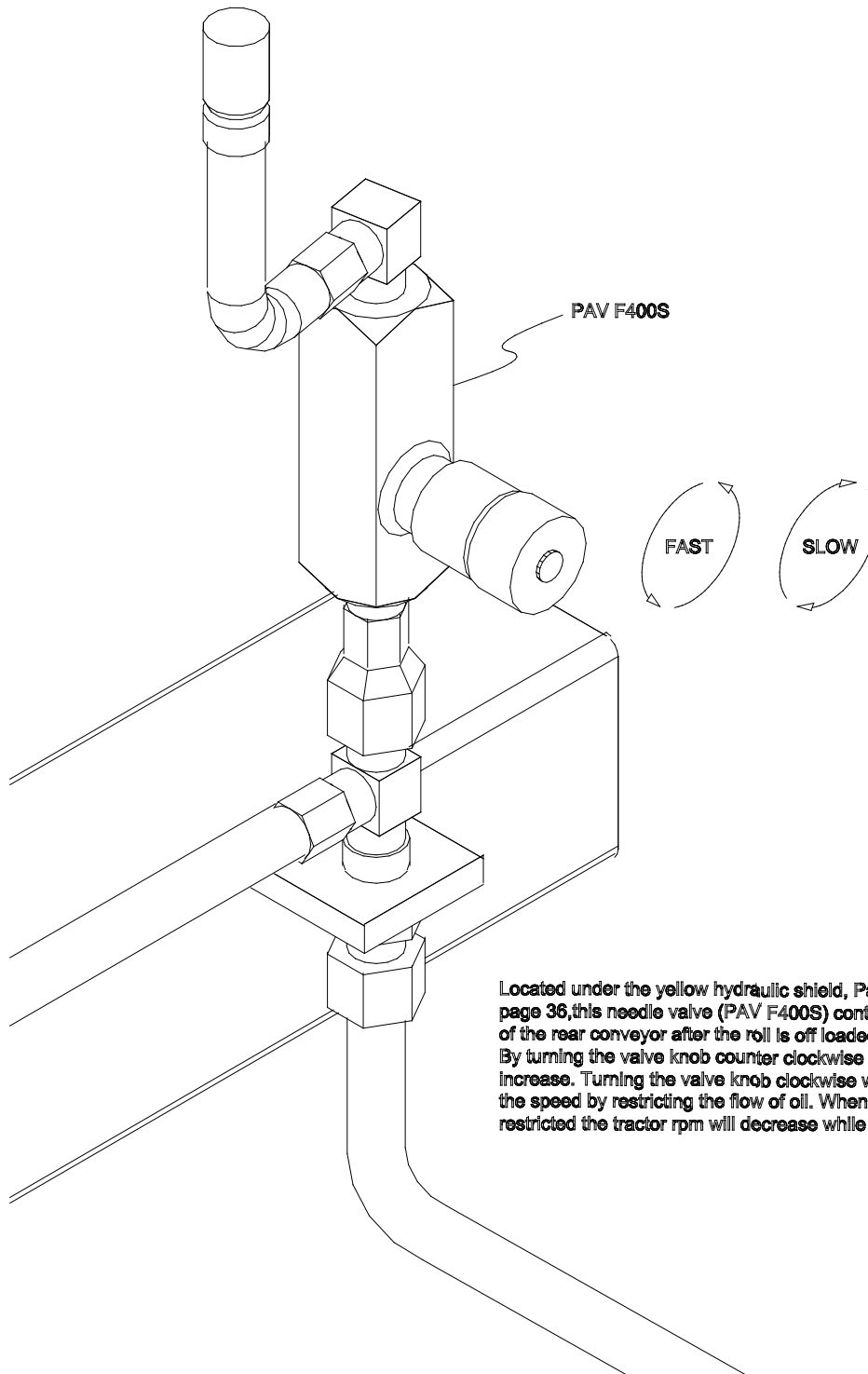
H0002 Flow Control Valve - Parts List

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	H0002	Selector Valve
2	1	B5021	Handle
3	1	B5068	Knob
4	1	H0002-OR	Spool O-ring
Repair Kit			
		FC-K	Seal Kit

H0002 Flow Control Valve

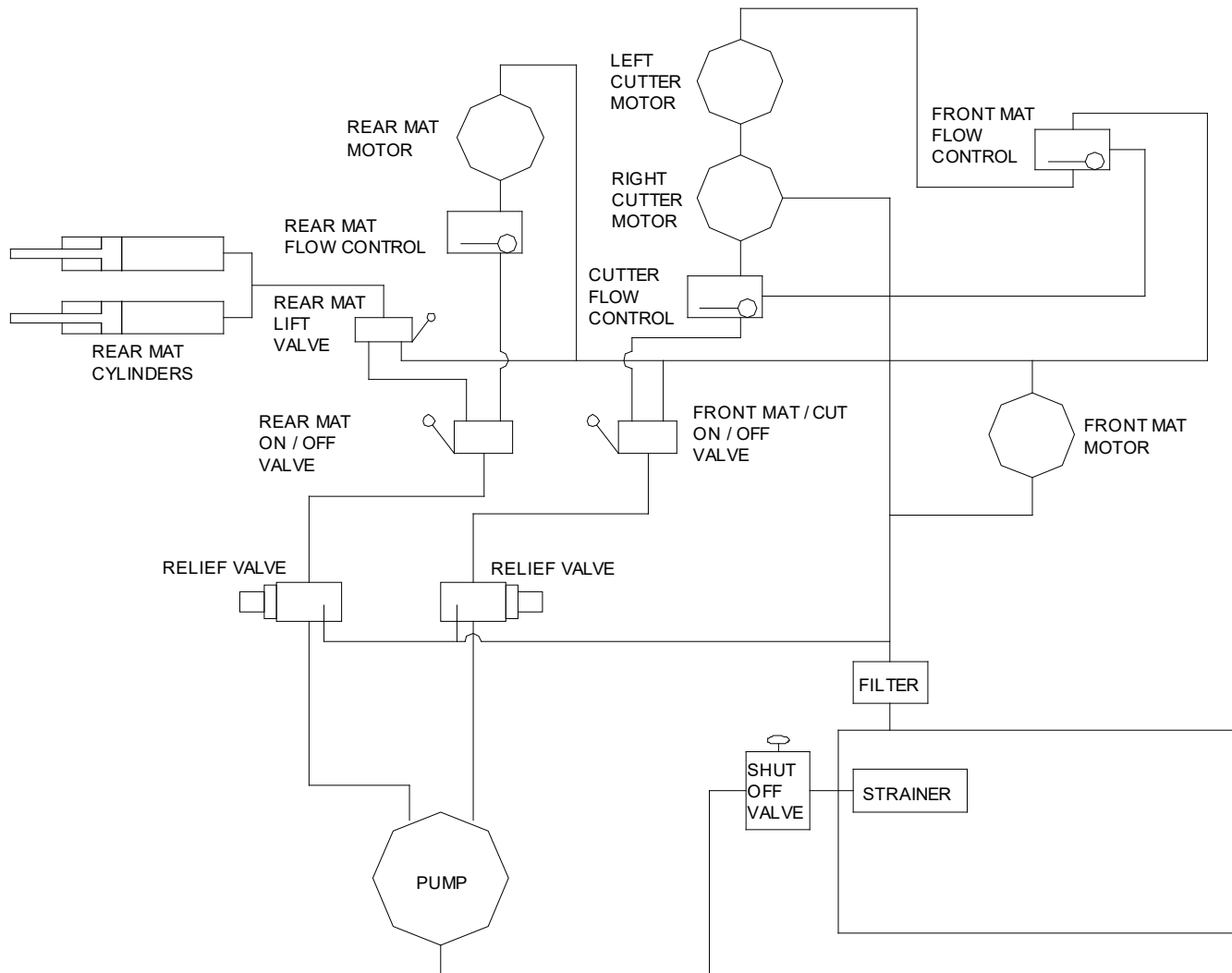


Needle Valve, Second Conveyor

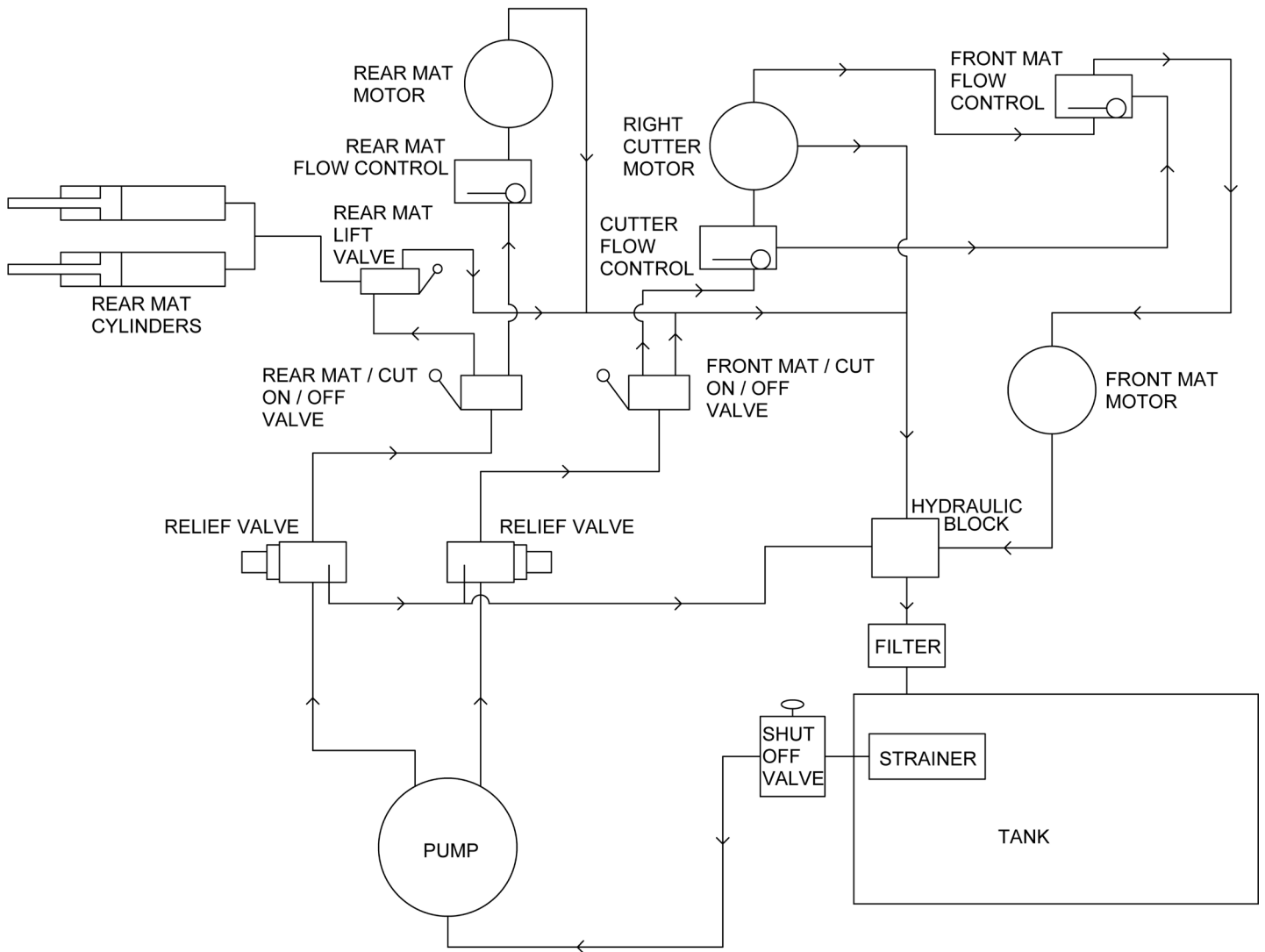


Located under the yellow hydraulic shield, Part # 2336AO page 36, this needle valve (PAV F400S) controls the lifting speed of the rear conveyor after the roll is off loaded onto the ground. By turning the valve knob counter clockwise the speed will increase. Turning the valve knob clockwise will decrease the speed by restricting the flow of oil. When the oil is restricted the tractor rpm will decrease while lifting.

Hydraulic Schematic (Revision 1)



Hydraulic Schematic (Revision 2)



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