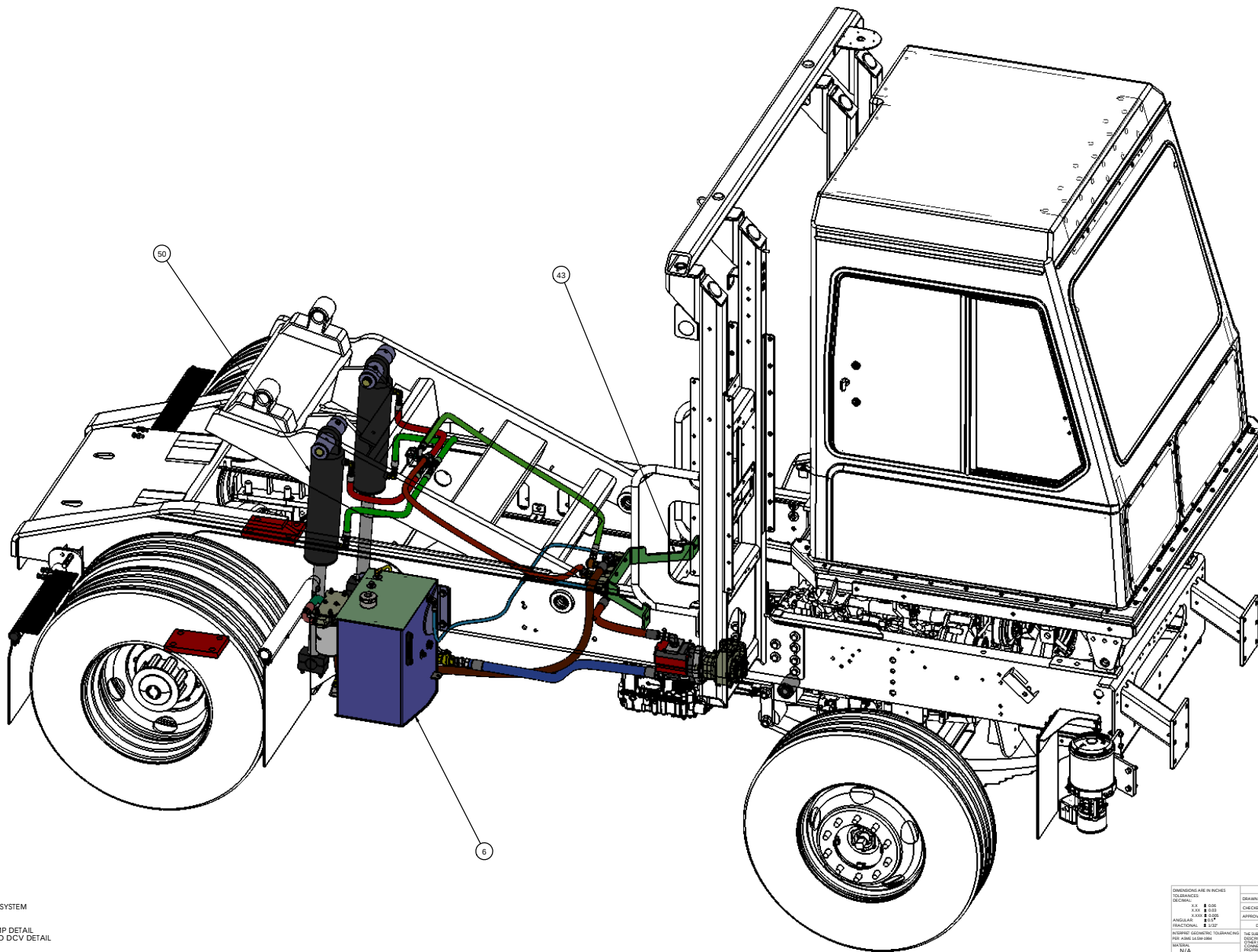
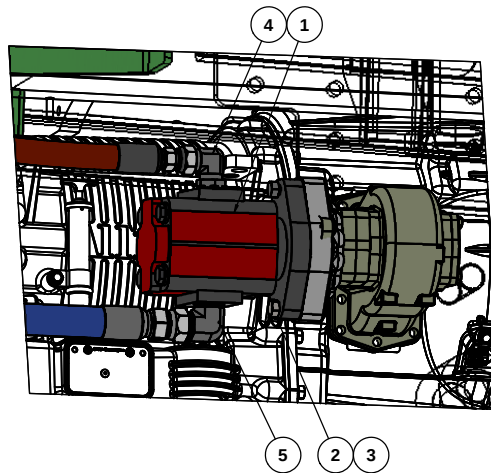




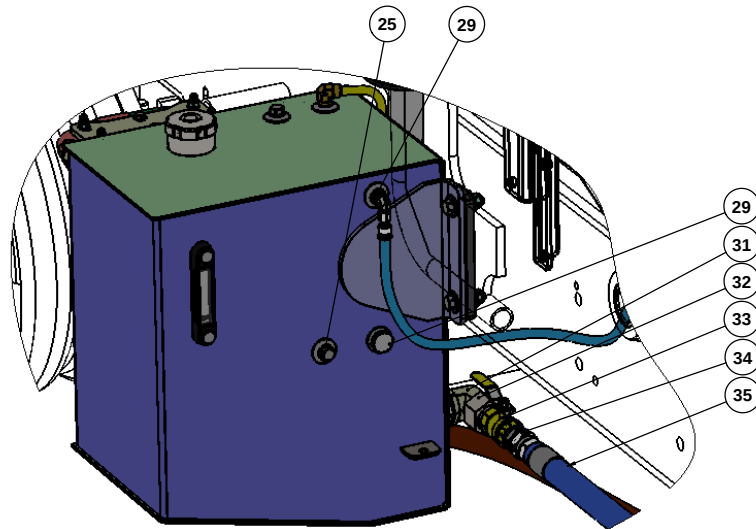
722093-A1 HYDRAULIC SYSTEM

PAGE 1 OVERVIEW
PAGE 2 TANK AND PUMP DETAIL
PAGE 3 CYLINDERS AND DCV DETAIL
PAGE 4 HOSES DETAIL
PAGE 5-6 PART LISTS

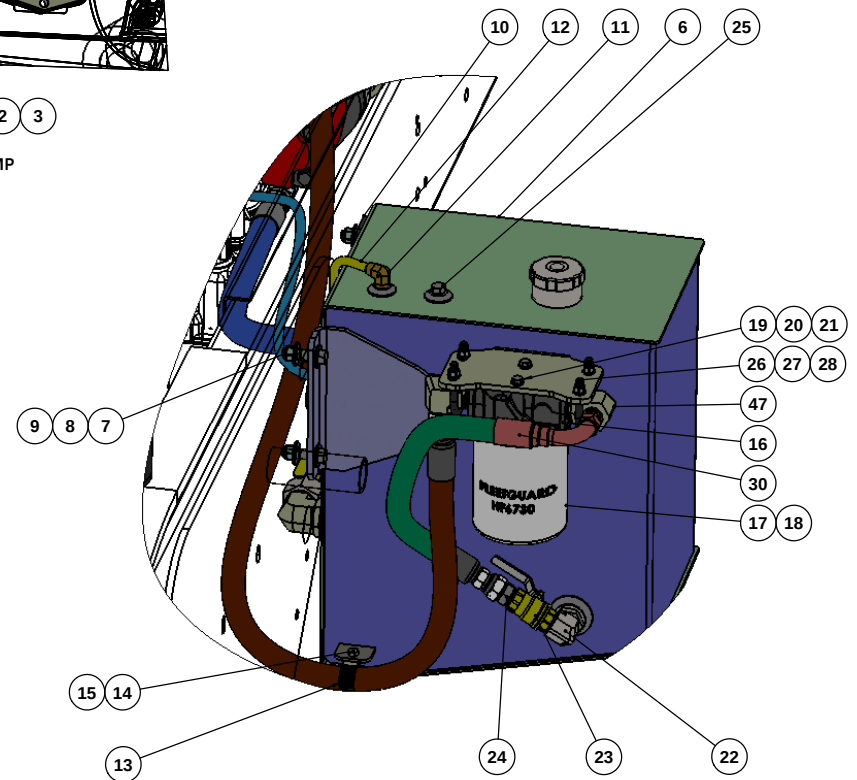
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HYDRAULIC PUMP

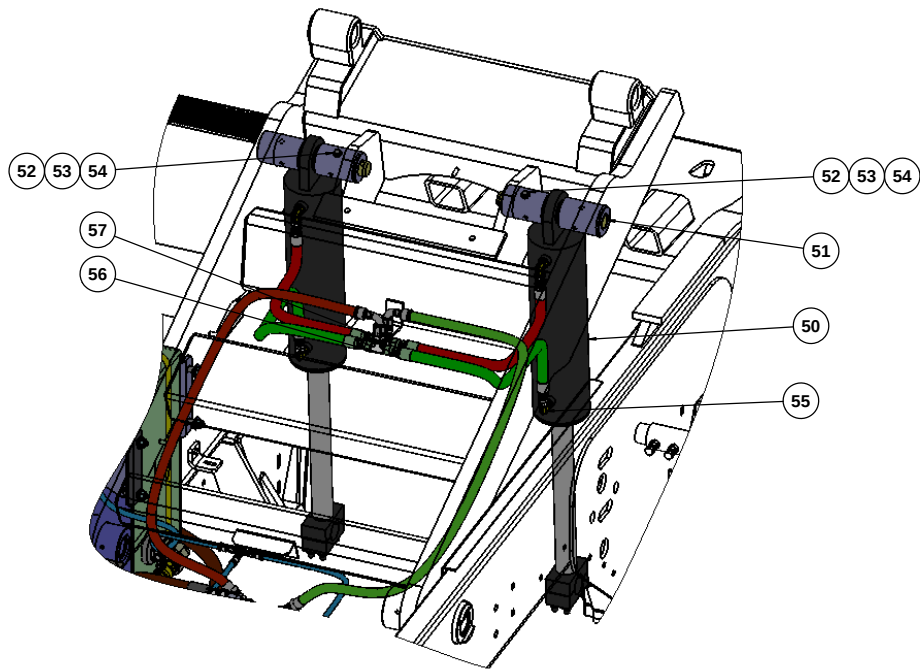


HYDRAULIC TANK
FRONT VIEW

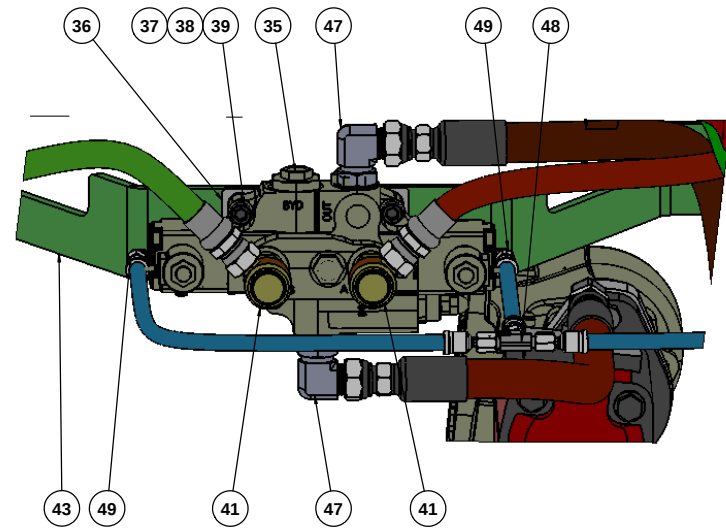


HYDRAULIC TANK
REAR

DIMENSIONS ARE IN INCHES		NAME	DATE
TOLERANCES:		DRAWN	MAL 6/7/2018
DECIMAL		CHECKED	
XXX & .005		APPROVED	
XXX & .010		DO NOT SCALE DRAWING	
FRACTIONAL	1/32"	THE SUBJECT MATTER SHOWN AND DESCRIBED IN THE DRAWING AND ANY CONSTRUCTION ASSUMED TO BE IN ACCORDANCE WITH THE DRAWING IS TO BE HELD AS TRUE COMPROMISE TO BE ALL RIGHTS TO ANY INVENTION OR PATENT ARE HEREBY ASSIGNED TO TCO MANUFACTURING, INC.	
ANGULAR	1/4"	TCD MANUFACTURING, INC. 88 CYPRESS RIDGE DR. ROCKLAND, NC 27856 (843) 717-2226	
FRACTIONAL	1/32"	TITLE: HYDRAULIC SYSTEM, 70K 128" WB Q38-IV/158	
MATERIAL	N/A	SIZE	DWG. NO. 722093-A1
DATE	SEE NOTE	REV	
REVISION	N/A	SCALE	1:32



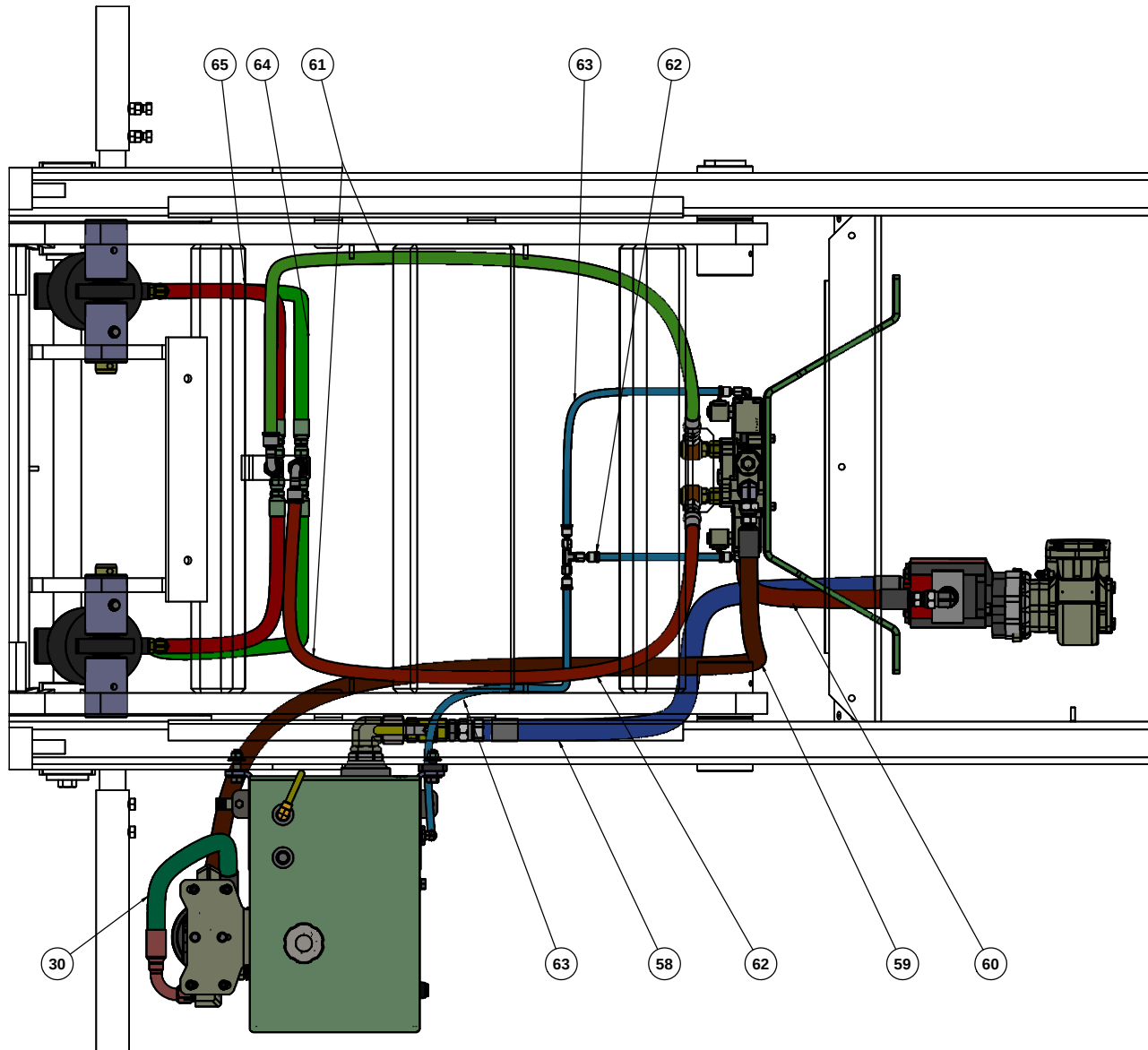
CYLINDER VIEW



DIRECTIONAL CONTROL VALVE

DIMENSIONS ARE IN INCHES		NAME	DATE
TOLERANCES:		DRAWN	MAL 6/7/2018
DECIMAL		CHECKED	
XXX & .005		APPROVED	
XXX & .015		DO NOT SCALE DRAWING	
FRACTIONAL		THE SUBJECT MATTER SHOWN AND DESCRIBED IN THE DRAWING AND ANY CONSTRUCTION THEREOF IS TO BE USED FOR INFORMATION ONLY AND IS NOT TO BE USED FOR ANY PURPOSES WITHOUT THE WRITTEN CONSENT OF THE DESIGNER.	
ANGULAR		ALL RIGHTS TO ANY INVENTION OR DESIGN ARE RESERVED TO THE DESIGNER.	
FRACTIONAL		ALL RIGHTS TO ANY INVENTION OR DESIGN ARE RESERVED TO THE DESIGNER.	
ANGULAR		ALL RIGHTS TO ANY INVENTION OR DESIGN ARE RESERVED TO THE DESIGNER.	
SEE NOTE		ALL RIGHTS TO ANY INVENTION OR DESIGN ARE RESERVED TO THE DESIGNER.	
REVISION		ALL RIGHTS TO ANY INVENTION OR DESIGN ARE RESERVED TO THE DESIGNER.	
REVISION		ALL RIGHTS TO ANY INVENTION OR DESIGN ARE RESERVED TO THE DESIGNER.	

TICO MANUFACTURING 88 CYPRESS RIDGE DR. ROCKLAND, NC 27856 (843) 717-2226	
TITLE: HYDRAULIC SYSTEM, 70K 128" WB Q38-IV/ISB	
SIZE	DWG. NO.
D	722093-A1
SCALE 1:24 (WEIGHT: 457306)	SHEET 1 OF 1



DRAWINGS ARE IN INCHES		NAME	DATE
TOLERANCES:		DRAWN	MAL 6/7/2018
DECIMAL		CHECKED	
X.XX ± 0.05		APPROVED	
X.XX ± 0.10		DO NOT SCALE DRAWING	
FRACTIONAL ± 1/32"			
ANGULAR ± 0.1°		THE SUBJECT MATTER SHOWN AND DESCRIBED IN THE DRAWING AND ANY CONSTRUCTION INFORMATION CONTAINED HEREIN IS THE PROPERTY OF TICO AND IS TO BE USED FOR THE PROJECT AND NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM TICO MANUFACTURING, INC.	
UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE TO BE AS SHOWN.		TITLE: HYDRAULIC SYSTEM, 70K 128" WB Q38-IV/158	
MATERIAL: N/A		SIZE DWG. NO. 722093-A1 REV	
FINISH: SEE NOTE		D SCALE 1:24 WEIGHT: SHEET 1 OF 1	
REVISION: N/A			

TICO PRO-SPOTTER				
HYDRAULIC SYSTEM, 70 K, 128' WB, ELEC 16 GPM PUMP/ PTO, QSB-IV/ISB				722093
ITEM	PART #	QTY/M	DESCRIPTION	
	72200	REF	HYDRAULIC SYSTEM, 70 K, 128' WB, ELEC 16 GPM PUMP/ PTO, QSB-IV/ISB	
			NOTE: ROUTE SOLENOID VENT HOSE ALONG AIR TANK	
			SUPPORTS, UNDER FRAME RAIL TO HYD TANK	
			NOTE: SET PRESSURE RELIEF TO 1,500 PSI.	
1	60943	1	PUMP HYD PTO 16 GPM @ 2100 RPM CW	
	60953-1	REF	GASKET-PUMP	
2	82418	1	BOLT, HEX, 1/2- 13 x 2 LG	
3	85137	1	LOCKWASHER, 1/2	
4	60939	1	FITTING, ADAPTOR, ELBOW 3/4 M. ORING TO 3/4 JICM, VI	
5	60558	1	FITTING, ELBOW, 90 DEG 1" O-RING TO 1" JIC	
NOT SHOWN	90921-1	1	BRACKET, PUMP SUPPORT	
NOT SHOWN	62244	1	BRACKET, PTO STANDOFF	
NOT SHOWN	82440	1	BOLT, 1/2-13 x 2-1/2 LG	
NOT SHOWN	85027	1	LOCKNUT, NYLOCK, 1/2-13	
6	420340	1	TANK-HYDRAULIC, 18.5 GAL, VENTED W/SAE PORTS, NON VENTED CAP, LH FILTER	
7	82418	4	BOLT. HEX 1/2-13x 2 LG	
8	85104	4	WASHER, FLAT, 1/2	
9	85027	4	LOCKNUT, NYLOCK, 1/2-13	
10	30174	1	SPACER-TANK MOUNT	
11	40823	1	FITTING, ELBOW 90, BRASS, 3/8 TUBE X 3/8 MNPT	
12	11004	3FT	TUBING-NYLON AIR BRAKE 3/8 BK	
13	40593	1	P-CLAMP	
14	82371	1	BOLT, 5/16"- 18 UNC x 1" LG	
15	85035	1	NUT, 5/16" UNC	
16	60556-2	1	BASE-FILTER HEAD	
17	60556-1	1	FILTER-HYD	
18	1026037	1	SEAL-FILTER	
19	82371	2	BOLT, 5/16"- 18 UNC x 1" LG	
20	85112	2	WASHER, FLAT, 5/16	
21	85134	2	LOCKWASHER-5/16	
22	420379	1	FITTING, ELBOW 90 #16 " O " - RING X 3/4" MNPT	
23	40147	1	VALVE-SHUT OFF-3/4 FNPT	
24	40957	1	FITTING- STR, # 12 JIC X 3/4 MNPT	
25	420374	2	FITTING-PLUG, SAE O-RING (-06) 9/16"- 18 THREAD, STEEL	
26	20100	2	U-BOLT (3/8" DIAx 2" ID x3-5/8" OAL	
27	85091	4	WASHER, 3/8" HRDN	
28	85025	4	NUT, 3/8"- 16 NYLOK	
29	420375	1	FITTING-PLUG,SAE O-RING (-08) 3/4"- 16 THREAD, STEEL	
30	410344	1	HOSE ASSY-3/4"x 25" LG TANK TO FILTER	
REV	DATE	BY		SHEET
A	6/25/2018	MAL		1 OF 2
TICO MANUFACTURING - RIDGELAND, SC 29936				

TICO PRO-SPOTTER				
HYDRAULIC SYSTEM, 70 K, 128' WB, ELEC 16 GPM PUMP/ PTO, QSB-IV/ISB				722093
ITEM	PART #	QTY/M	DESCRIPTION	
31	420376	1	FITTING, ELBOW, SAE O- RING (-20) 1-5/8"-12 THREAD X 1 1/4"	
32	420383	1	FITTING, ADAPTER, 1-1/4" NPT (FEMALE) x 1" NPT (MALE), S	
33	40146	1	VALVE-SHUT OFF-1 NPT	
34	40961	1	FITTING, 1 JIC TO 1 PIPE	
NOT SHOWN	62447	1	HARNESS, BOOM ELEVATION CONTROL, MOMENTARY SWIT	
35	62302	1	VALVE, ELECTRONIC DIRECTIONAL CONTROL	
36	62299	1	SPACER-VALVE MOUNT	
37	80171	2	SOC HD SCREW, 3/8 x 2 LG	
38	85113	2	WASHER 3/8	
39	85036	2	LOCKNUT, 3/8" - 16 UNC	
40	42073	2	FITTING, ORB PORT BUSHING-1/2M ORB TO 1/2F ORB	
41	41188	2	FITTING, ELBOW 90 STEEL, 1/2 "O" RING TO 5/8 JIC SWIVEL	
42	420382	2	FITTING, ELBOW,90 ,1-1/4" NPT (MALE) x 3/4" JIC (MALE),	
43	62082	1	MOUNT PLATE - VALVE	
44	82429	2	BOLT, HEX 1/2-13x 2-1/4 LG	
45	85027	2	NUT, NYLOCK 1/2-13	
46	85115	4	WASHER, FLAT 1/2	
47	10624	2	FITTING, ELBOW 90 , 3/4" "O" -RING/ #12 JIC	
48	42083	1	FITTING, TEE JIC, NO.4	
49	40472	2	FITTING ELBOW 90, 1/8 NPT" / #4 JIC	
50	30148-1	2	CYLINDER-5" HYD	
51	30187-12	2	PIN, BOOM UPPER CYLINDER	
52	82493	2	BOLT, HEX 3/8-16 x 2 LG	
53	85113	4	WASHER 3/8	
54	85025	2	LOCKNUT, NYLON 3/8-16	
55	40460	4	FITTING, ELBOW 90, 1/2 "O" -RING TO 1/2 JIC	
56	50050	2	FITTING, TEE, BULKHEAD-5/8 JIC	
57	50050-2	2	NUT, 7/8-14 THD	
58	41207	1	HOSE ASSY, HD 1"x 39-1/2" OAL LG SUCTION , TNK TO PUMP	
59	41003	1	HOSE ASSY-3/4" X 65 1/8" " JG FILTER TO CONTROL VALVE	
60	40364	1	HOSE ASSY, HYD 3/4" x 30"LG, VALVE TO PUMP	
61	41279	2	HOSE ASS'Y, HYD 5/8"x58-5/8" OAL, VALVE TO TEE	
62	41268	1	HOSE ASS'Y - NO 4, STR/90, 17-1/4" OAL, TEE/VALVE	
63	40320	2	HOSE ASS'Y - #4, STR/STR, 28 1/4" OAL, TANK/TEE	
64	41231	2	HOSE ASSY, HYD 1/2"x 27 1/2 OAL, CYL TO TEE-RETRACT	
65	41230	2	HOSE ASSY, HYD 1/2" x 24 3/4" OAL, CYL TO TEE EXTEND	
REV	DATE	BY		SHEET
A	6/25/2018	MAL		2 OF 2
TICO MANUFACTURING - RIDGELAND, SC 29936				