PNEUMVENT BOM

			Manufacturer Part		
Item No.	. Description	Manufacturer	Number	Designator	Quantity
1	15A 60PSI Compressor	McMaster	4251K71	M2	1
	2/2 Air solenoid valve				
2		Festo	MHP1-M4H-2/2G-M3-TC	M11, M12	2
	2/2 Air solenoid valve				
3		Festo	MHP1-M4H-3/2GM3-TC	M23, M24	2
4	2/2 Electrovalves Plate	Festo	MHP1-AS-2-M3	M5, M6	2
5	2/2 Electrovalves Plate	Festo	MHP1-AS-3-M3	M17, M18	2
	22mm Compact, extendable				
	breathing system with luer elbow,				
6	1.5m	Intersurgical	2150000	M34	1
7	3.9µH Shielded Wirewound Inductor		1055 A X (2DO) X D2	v 1	
7	4.2A 26.4mOhm Max Nonstandard	Murata	1255AY-3R9N=P3	L1	1
8	4mm Plastic Tubing	Festo	PUN-H-4X0,75-BL	M30	1
	ARM® Cortex®-M4 STM32F4				
	Microcontroller IC 32-Bit 84MHz 256KB (256K x 8) FLASH 100-				
9	LQFP (14x14)	STMicroelectronics	STM32F401VCT6	IC1	1
10	Battery 12V 75Ah	Powersonic	PS-12750S	M33	1
10	Battery 12 v 75An	Toshiba	13-12/303	WISS	1
	BI-DIRECTIONAL ESD	Semiconductor and			
11	PROTECTION DI	Storage	DF2B26M4SL,L3F	D2	1
	BUZZER, 16.5 MM, 6.7 MM DEEP,	Storage	DI 2D20M+SE;ESI	D2	
12	P,	CUI	CPT-1667-85T	B1	1
	-,	001	011 1007 001	C29, C31, C35,	
13	CAP 6.8 UF 20% 50 V	Wurth Electronics	865080642005	C37, C41	5
14	CAP ALUM 47UF 20% 50V SMD	Panasonic	EEE-1HA470XAP	C2	1
				C1, C6, C7, C8,	
				C9, C10, C12,	
				C13, C14, C15,	
				C16, C18, C19,	
				C20, C21, C24,	
				C25, C39, C43,	
				C44, C45, C46,	
				C47, C48, C49,	
				C50, C51, C52,	
				C53, C54, C55,	
				C56, C57, C58,	
15	CAP CER 0.1UF 50V X7R 0603	KEMET	C0603C104M5RACTU	C59, C60	36
16	CAP CER 0.33UF 50V X5R 0603	TDK	C1608X5R1H334K080AB		1
17	CAP CER 10UF 25V X7R 1206	Samsung	CL31A106MBHNNNE	C3	1
1.0	CAR CER 1 F COVIVER 0503	IZEN GEG	G0.c02G10.43.555 + G775	C30, C33, C36,	_
18	CAP CER 1nF 50V X7R 0603	KEMET	C0603C104M5RACTU	C38, C42	5
19	CAP CER 1UF 16V X7R 0603	KEMET	C0603C104M5RACTU	C26	1
20	CAR CER 2 2nd 50V V7R 0402	VEMET	C0602C104M5D A CTU	C27, C28, C32, C34, C40	5
20	CAP CER 2.2nF 50V X7R 0603 CAP CER 2.2UF 16V X5R 0603	KEMET KEMET	C0603C104M5RACTU C0603C225K4PACTU	C34, C40 C11, C23	5 2
22	CAP CER 2.2UF 10V X5R 0805	Taiyo Yuden	LMK212BBJ226MG-T	C11, C23	2
23	CAP CER 220F 10V A5R 0803 CAP CER 4.7UF 10V X5R 0603	Taiyo Yuden	LMK107BJ475KA-T	C22	1
23	Clamp Ipp Tvs Diode Surface Mount	raryo ruden	EMINIO/DJT/JIM-1		1
24	SOT-323-5	STMicroelectronics	ESDALC6V1W5	IC2	1
	001-323-3	5 I WHEI OCICCHOINES	ESDALCO VI VVJ	102	1

Itom No	Description	Manufacturer	Manufacturer Part Number	Designator	Quantity
nem No.	CONN RCPT 20POS 0.05 GOLD	Manufacturer	Number	Designator	Quantity
25	PCB	Amphenol ICC (FCI)	20021311-00020T4LF	M31	1
25	CORD 18AWG 5-15P - 320-C13	Assmann WSW	20021311-0002014L1	IVIST	1
26	9.84'	Components	A-PC2302-030021-1	M32	1
20	7.04	Сотронена	711 02302 030021 1	PS2, PS3, PS4,	1
27	DC DC CONVERTER 5V 1W	Recom	RFB-0505S	PS5, PS6	5
21	De De CONVERTER SV TW	Recoin	KI D-03035	155,150	3
28	DIODE SCHOTTKY 200V 5A SMC	SMC	SK520TR	D1, D4, D5, D6	4
20	Enclosed AC DC Converters 1	Sine	51020110	D1, D1, D3, D0	
	Output 12V 17A 90 ~ 132 VAC,				
	180 ~ 264 VAC, 240 ~ 370 VDC				
29	Input	Mean Well	LRS-200-12	M1	1
	FERRITE BEAD 300 OHM 0603	1,10411 1,1011	200 12	1121	-
30	1LN	Vishay Dale	ILBB0603ER301V	L2	1
31	Header, 13-Pin	Sullins	PREC013SAAN-RC	P1	1
32	Header, 6-Pin	Sullins	PRPC006SACN-RC	J3	1
<u>- =</u>	HOOK-UP DUAL STRND 20AWG				
33	WHT 5'	81044/12-20-9	20 AWG WIRE	M4	1
		010 1 1/12 20 9	2011110 111112	1121	-
34	IC INST AMP 1 CIRCUIT 8VSSOP	Texas Instruments	INA826AIDGKR	IC9, IC10	2
	IC PWR DRVR N-CHAN 1:1	T CHAS THE CHIEF		10,,1010	_
35	SOT23-3	ON Semiconductor	NUD3124LT1G	U1	1
36	IC REG BUCK 3.3V 2A TSOT26	Diodes	AP63203WU-7	PS1	1
	Inductor Unshielded Wirewound				
	190mA 4.81Ohm Max 0805 (2012				
37	Metric)	Taiyo Yuden	CBC2012T220M	L3, L4, L5, L6, L7	5
	LCD MOD GRAPH 122X32 WH	j v	NHD-12232KZ-NSW-		
38	TRANSM	Newhaven Display	BBW-P	IC11	1
39	LED GREEN CLEAR 0603 SMD	Wurth Electronics	150060RS75000	LED3	1
40	LED GREEN CLEAR 0603 SMD	Wurth Electronics	150060VS75000	LED1, LED2	2
	Linear Voltage Regulator IC 1				_
41	Output 100mA 8-SOIC	Texas Instruments	UA78L12ACD	IC4	1
	MEMS OSC XO 2.0000KHZ CMOS				
42	SMD	Microchip	DSC6083HI2A-002K000T	Y1	1
	MOSFET N-CH 60V 300MA SOT-	r			
43	23	Rohm	RYE002N05TCL	Q1, Q2	2
	OPTOISOLTR 5KV 4CH TRANS			, ,	
44	16-SMD	Vishay Lite-On	LTV-847S	IC3	1
				M25, M26, M27,	
45	Plug socket with cable for Valves	Festo	KMH-0,5	M28	4
15	Power Entry Connector Receptacle,		- 7-	-	
	Male Blades IEC 320-C14 Panel				
46	Mount, Flange	Schaffner	FN9222B-1-06	M3	1
	PRESSURE SENSOR DUAL PORT				
47	8SOP	NXP USA Inc.	MPXV7002DPT1	IC5, IC6	2
				M13, M14, M15,	
				M16, M19, M20,	
48	Push-in fitting	Festo	OSM-M3-4-I	M21, M22	8
	5			,	
49	Push-in fitting 1/4mm to 4mm	Festo	QS-1/4-4	M7, M8, M9, M10	4
-	Push-in Y-connector			., .,,	
50		Festo	QSY-8-4	M29	1
	Red 620nm LED Indication -				
51	Discrete 2.4V 1113 (2835 Metric)	QT-Brightek	QBHP686-RH	LED4	1
	- \/		1 5	I	l

Item No.	Description	Manufacturer	Manufacturer Part Number	Designator	Quantity
	RELAY AUTOMOTIVE SPST 15A				Quantity
52	12V	Panasonic	JSM1A-12V-5	RE2	1
	RELAY GEN PURPOSE SPDT 20A				
53	12V	TE Connectivity P&B	T9GV5L14-12	RE1	1
54	RES 20 OHM 1% 1/2W 1206	Stackpole Electronics	RNCP1206FTD20R0	R14, R15, R16	3
	RES SMD 0 OHM JUMPER 1/10W	-		R2, R4, R5, R7,	
55	0603	Panasonic	ERJ-3GEY0R00V	R27	5
-	RES SMD 1.2K OHM 1% 1/4W				
56	1206	Yageo	RC1206FR-071K2L	R17	1
	RES SMD 100K OHM 0.5% 1/16W				
57	0603	Susumu	RR0816P-104-D	R28, R30	2
				R1, R11, R12,	
				R13, R18, R19,	
				R20, R21, R22,	
				R23, R24, R25,	
				R44, R45, R46,	
	RES SMD 10K OHM 1% 1/4W			R47, R48, R49,	
58	1206	Yageo	RC1206FR-07200RL	R50	19
	RES SMD 10K OHM 5% 1/10W	J		R3, R8, R9, R10,	
59	0603	Yageo	RC0603JR-0710KL	R26	5
	RES SMD 200K OHM 0.5% 1/16W	J			
60	0603	Susumu	RR0816P-204-D	R29, R31	2
	RES SMD 6K04 OHM 0.5% 1/16W			· ·	
61	0603	Stackpole Electronics	RMCF0603FT6K04	R33, R39	2
		-		R32, R34, R35,	
				R36, R37, R38,	
	RES SMD100K OHM 0.5% 1/16W			R40, R41, R42,	
62	0603	Susumu	RR0816P-104-D	R43	10
	RESISTOR 47 Ohms ±5% 0.1W,				
63	1/10W Chip Resistor 0603	TE Connectivity	CRGCQ0603J47R	R6	1
	Screws for WH/WQ Series	_			
64	Enclosures	PolyCase	SCREWS-007-50	M37	1
	SENS PRESSURE 7.25 PSI MAX	-			
65	MPAK	NXP Freescale	MPXM2053GST1	IC7	1
	SENSOR GAUGE PRESS 14.5PSI				
66	MAX	NXP Freescale	MPXV2102GP	IC8	1
	SWITCH TACT SPST-NO 0.025A			SW2, SW3, SW4,	
67	50V	E-Switch	320E11BLK	SW5, SW6, SW7	6
	Tactile Switch SPST-NO Top				
68	Actuated Surface Mount	ITT C&K	PTS526SM15SMTR2LFS	SW1	1
	TERM BLK 2POS SIDE ENTRY			J1, J2, J4, J9, J10,	
69	5MM PCB	Phoenix Contact	1935161	J11, J12	7
				TP1, TP2, TP3,	
				TP4, TP5, TP6,	
				TP7, TP8, TP9,	
70	Test Point	N/A	N/A	TP10, TP11	11
71	TVS Diode (Uni-directional)	STMicroelectronics	ESDALC6V1-1U2	D3	1
	Vixen Air Inflation Schrader Valve				
	with Push to Connect (PTC) for 1/4"				
72	OD Air Line	Vixen Air Inflation	VXA1014-2	M35	1
	WQ-64 NEMA Hinged Enclosure				
73	0.43 x 0.31 x 0.31 in	PolyCase	WQ-64	M36	1