The University of Iowa

Department of
Physics & Astronomy

MATERIAL BUILD RECORD

Project: Project Name

Assembly: 102-73189

TACHOMETER

Board: 102-73189.1

Schematic: 102-73189.1

Idx #	Pg #	Comp S/N as needed	Component MIT	Part Type	Ref Des	Part Value	Flight Part Number	Kit by	Value Ver	Insp by	Lead Form	Insp by	Tinned by	Insp by	Appl by	Insp by
1	1	2.1A Top	5.000 4.000	CONTACT CONN_NOTE_CONTACT	A_JC9/1	0016021110	0016021110									
1	1	2.1A Top	5.500 4.000	CONTACT CONN_NOTE_CONTACT	A_JC9/2	0016021110	0016021110									
1	1	2.1A Top	6.000 4.000	CONTACT CONN_NOTE_CONTACT	A_JC9/3	0016021110	0016021110									
1	1	2.1B Top	5.000 3.650	CONTACT CONN_NOTE_CONTACT	A_JC9/4	0016021110	0016021110									
1	1	2.1B Top	5.500 3.650	CONTACT CONN_NOTE_CONTACT	A_JC9/5	0016021110	0016021110									
1	1	2.1B Top	6.000 3.650	CONTACT CONN_NOTE_CONTACT	A_JC9/6	0016021110	0016021110									
2	1	2.1A Top	5.500 4.500	CONN HOUSING LATCH CONN_NOTE	A_J9/B	0050579406	0050579406									
4	1	2.8E Top	4.300 4.100	SCREW FOR MNT PC BOARD HARDWARE	A_MTG1	1593ATS	1593ATS100									
5	1	2.9E Top	7.100 4.500	ENCLOSURE ENCLOSURE	A_ENCL1	1599B	1599BSGY									
6	1	2.8E Top	4.300 4.500	RED BEZEL HARDWARE	A_BEZEL	6202030	6202030									
7	1	2.1B Top	3.700 4.500	MODULAR CABLE PIGTAIL HARDWARE_CABLE	A_CBL1	AT-S-26-8/8	AT-S-26-8/8/B-7-OE									
8	1	3.9C Top	3.700 4.100	USB UART 3.5MM HARDWARE_CABLE	A_CBL_DBG	TTL-232R-3V3-AJ	TTL-232R-3V3-AJ									
17	1	3.3A Bot	0.500 0.655	CAP CER X7R 50V SM0603	C11	.01UF	CL10B103KB8NNNC									
17	1	2.5E Bot	1.250 1.495	CAP CER X7R 50V SM0603	C110	.01UF	CL10B103KB8NNNC									
17	1	2.4C Bot	1.120 1.290	CAP CER X7R 50V SM0603	C112	.01UF	CL10B103KB8NNNC									
17	1	2.3F Bot	1.060 0.490	CAP CER X7R 50V SM0603	C116	.01UF	CL10B103KB8NNNC									
17	1	2.4F Bot	1.035 0.710	CAP CER X7R 50V SM0603	C118	.01UF	CL10B103KB8NNNC									
17	1	2.4F Bot	1.375 0.915	CAP CER X7R 50V SM0603	C119	.01UF	CL10B103KB8NNNC									

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17	2	2.4F Bot	1.735 0.895	CAP CER X7R 50V SM0603	C120	.01UF	CL10B103KB8NNNC									
17	2	2.4F Bot	1.655 0.310	CAP CER X7R 50V SM0603	C122	.01UF	CL10B103KB8NNNC									
17	2	2.5F Bot	1.345 0.310	CAP CER X7R 50V SM0603	C123	.01UF	CL10B103KB8NNNC									
17	2	4.1D Bot	2.530 0.105	CAP CER X7R 50V SM0603	C13	.01UF	CL10B103KB8NNNC									
17	2	3.1C Bot	0.135 0.480	CAP CER X7R 50V SM0603	C15	.01UF	CL10B103KB8NNNC									
17	2	3.9C Bot	0.785 0.765	CAP CER X7R 50V SM0603	C16	.01UF	CL10B103KB8NNNC									
17	2	3.1D Bot	1.995 0.460	CAP CER X7R 50V SM0603	C20	.01UF	CL10B103KB8NNNC									
17	2	3.5D Bot	1.685 0.710	CAP CER X7R 50V SM0603	C21	.01UF	CL10B103KB8NNNC									
17	2	3.6B Bot	2.100 1.200	CAP CER X7R 50V SM0603	C22	.01UF	CL10B103KB8NNNC									
17	2	4.3D Bot	2.955 0.100	CAP CER X7R 50V SM0603	C23	.01UF	CL10B103KB8NNNC									
17	2	3.1E Bot	1.915 0.905	CAP CER X7R 50V SM0603	C25	.01UF	CL10B103KB8NNNC									
17	2	3.4B Top	0.850 0.965	CAP CER X7R 50V SM0603	C26	.01UF	CL10B103KB8NNNC									
17	2	4.5D Bot	3.410 0.100	CAP CER X7R 50V SM0603	C33	.01UF	CL10B103KB8NNNC									
17	2	4.6D Bot	3.865 0.100	CAP CER X7R 50V SM0603	C34	.01UF	CL10B103KB8NNNC									
17	2	4.8D Bot	3.280 1.980	CAP CER X7R 50V SM0603	C54	.01UF	CL10B103KB8NNNC									
17	2	3.2F Top	2.020 0.985	CAP CER X7R 50V SM0603	C9	.01UF	CL10B103KB8NNNC									
18	2	2.1E Bot	1.470 1.090	CAP CER X7R 50V SM0805	C101	.1UF	CL21B104KBFNNNG									
18	2	3.3B Bot	1.720 0.545	CAP CER X7R 50V SM0805	C14	.1UF	CL21B104KBFNNNG									

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18	3	2.6A Bot	1.180 1.850	CAP CER X7R 50V SM0805	C2	.1UF	CL21B104KBFNNNG									
18	3	2.7A Bot	0.855 1.645	CAP CER X7R 50V SM0805	C3	.1UF	CL21B104KBFNNNG									
18	3	2.2A Bot	0.625 1.415	CAP CER X7R 50V SM0805	C5	.1UF	CL21B104KBFNNNG									
18	3	2.4B Bot	0.469 1.415	CAP CER X7R 50V SM0805	C7	.1UF	CL21B104KBFNNNG									
19	3	3.2A Bot	0.335 0.525	CAP CER NPO 50V SM0805	C10	100PF	885012007057									
19	3	3.7B Top	2.145 1.030	CAP CER NPO 50V SM0805	C24	100PF	885012007057									
19	3	2.2B Bot	0.310 1.415	CAP CER NPO 50V SM0805	C6	100PF	885012007057									
20	3	2.1C Bot	1.905 0.245	CAP NPO/BP SM0603	C102	10PF	C0603C100K5GACTU									
20	3	2.1D Bot	1.810 0.245	CAP NPO/BP SM0603	C103	10PF	C0603C100K5GACTU									
21	3	2.5E Top	0.880 1.460	CAP TANTALUM SMP_M3528	C12	10UF/25V	10UF/15V									
21	3	2.9A Top	1.465 0.110	CAP TANTALUM SMP_M3528	C19	10UF/25V	10UF/15V									
21	3	2.8A Top	2.955 1.920	CAP TANTALUM SMP_M3528	C4	10UF/25V	10UF/15V									
22	3	2.5A Top	2.600 1.925	CAP TANTALUM SMP_M6032	C1	10UF/35V	10UF/35V									
23	3	2.6A Top	2.605 1.735	CAP X7R/BX SM0805	C17	1UF	C0805C105J3RACTU									
23	3	2.8A Top	2.770 0.120	CAP X7R/BX SM0805	C18	1UF	C0805C105J3RACTU									
24	3	2.5D Bot	0.830 1.315	CAP CER NPO 50V SM0805	C109	33PF	885012007054									
25	3	3.7C Bot	0.245 1.175	CAP NPO/BP SM0805	C8	4700PF	C080547C2F5GACTU									
26	3	2.5E Bot	1.340 1.750	DIODE SOT23-3	D13	BAV99	BAV99-7-F									

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26	4	3.2B Bot	0.605 1.120	DIODE SOT23-3	D4	BAV99	BAV99-7-F									
26	4	3.8C Bot	0.220 0.945	DIODE SOT23-3	D6	BAV99	BAV99-7-F									
27	4	3.1C Bot	2.545 1.895	VOLTAGE REFERENCE(10V) SOT23-3	DZ2	LM4040-N	LM4040CIM3-10.0/NOPB									
28	4	4.8B Top	4.680 0.890	LED RED DIFF 19MCD LED_T1-3/4C	D1	LTL-4223	LTL-4223									
28	4	4.8B Top	4.685 1.140	LED RED DIFF 19MCD LED_T1-3/4C	D3	LTL-4223	LTL-4223									
28	4	4.9B Top	4.685 1.390	LED RED DIFF 19MCD LED_T1-3/4C	D5	LTL-4223	LTL-4223									
28	4	4.9B Top	4.685 1.640	LED RED DIFF 19MCD LED_T1-3/4C	D7	LTL-4223	LTL-4223									
29	4	2.3A Bot	1.595 1.930	DIODE 3A DO214AC	D2	VS-3EMU06	VS-3EMU06-M3/5AT									
30	4	2.3A Bot	0.935 1.975	FUSE 1000ma SM1206	F1	0685T1000-01	0685T1000-01									
31	4	2.1A Top	0.360 1.585	CONN-LTCH-MOLEX-R/A 6 HDR_50-57-9406	J9	0705530005	0705530005									
32	4	3.9A Top	4.470 0.370	POGO PIN ASSY 3 HDR_1X3_825	JH2	825-22-003-10-004101	825-22-003-10-004101									
33	4	3.8B Top	4.425 0.900	JUMPER HEADER HDR_2X2/JMP	JP1	PBC02DAAN	PBC02DAAN									
34	4	3.5A Top	0.945 0.145	JUMPER HEADER HDRB_2	JP2	PBC02SAAN	PBC02SAAN									
35	4	3.9B Top	4.850 0.550	CONN JACK STEREO SJ-352X	J2	SJ-3524	SJ-3524-SMT-TR									
36	4	4.2A Top	2.475 1.275	LED 7 SEG 60mcd LTS-6750	LED1	CDSA56	CDSA56R2WF									
36	4	4.4A Top	2.985 1.275	LED 7 SEG 60mcd LTS-6750	LED2	CDSA56	CDSA56R2WF									
36	4	4.5A Top	3.495 1.275	LED 7 SEG 60mcd LTS-6750	LED3	CDSA56	CDSA56R2WF									
36	4	4.7A Top	4.005 1.275	LED 7 SEG 60mcd LTS-6750	LED4	CDSA56	CDSA56R2WF									

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37	5	2.2E Top	1.525 1.250	CONNECTOR HDR_2X3	PJ1	75869-131LF	75869-131LF									
38	5	2.2F Top	1.935 1.740	POGO PIN ASSY 6 HDR_1X6_825	PH1	825-22-006-10-004101	825-22-006-10-004101									
39	5	2.3E Bot	1.730 1.195	RES Jumper SM0603-3	R104	0	M55342									
40	5	3.2C Bot	1.090 0.270	RES THK-FLM SM0805	R51	1.00K	M55342K06B1E00TW									
41	5	3.4D Top	0.820 0.725	RES THK-FLM SM0805	R56	1.27K	M55342K06B1E27TW									
42	5	4.3D Bot	2.425 0.290	RES THK-FLM SM0603	R13	1.2K	M55342K12B1E21TW									
42	5	4.4D Bot	2.875 0.290	RES THK-FLM SM0603	R23	1.2K	M55342K12B1E21TW									
42	5	4.6D Bot	3.330 0.290	RES THK-FLM SM0603	R33	1.2K	M55342K12B1E21TW									
42	5	4.8D Bot	3.770 0.290	RES THK-FLM SM0603	R43	1.2K	M55342K12B1E21TW									
42	5	4.9D Bot	3.280 1.885	RES THK-FLM SM0603	R53	1.2K	M55342K12B1E21TW									
43	5	3.7B Bot	4.260 0.765	RES THK-FLM SM0805	R7	1.5K	M55342K06B1E50TW									
44	5	3.8C Bot	0.385 0.890	RES THK-FLM SM0603	R9	1.8K	M55342K12B1E82TW									
45	5	3.7C Bot	0.170 1.360	RES THK-FLM SM0805	R18	10.0K	M55342K06B10E0TW									
45	5	3.2B Bot	0.445 1.120	RES THK-FLM SM0805	R38	10.0K	M55342K06B10E0TW									
46	5	2.4C Bot	0.930 1.150	RES THK-FLM SM0603	R105	100K	M55342K12B100ETW									
46	5	2.4D Bot	1.255 1.220	RES THK-FLM SM0603	R106	100K	M55342K12B100ETW									
47	5	3.7B Top	4.460 1.125	RES THK-FLM SM0805	R6	100	M55342K06B100DTW									
48	5	2.2E Bot	1.400 1.460	RES THK-FLM SM0603	R101	10K	M55342K12B10E0TW									

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48	6	2.3E Bot	1.525 1.460	RES THK-FLM SM0603	R102	10K	M55342K12B10E0TW									
48	6	2.3E Bot	1.650 1.460	RES THK-FLM SM0603	R103	10K	M55342K12B10E0TW									
48	6	2.5C Bot	1.010 1.325	RES THK-FLM SM0603	R107	10K	M55342K12B10E0TW									
48	6	3.3B Bot	1.550 0.500	RES THK-FLM SM0603	R48	10K	M55342K12B10E0TW									
48	6	3.6A Bot	1.990 1.230	RES THK-FLM SM0603	R59	10K	M55342K12B10E0TW									
48	6	3.6C Bot	0.820 1.000	RES THK-FLM SM0603	R60	10K	M55342K12B10E0TW									
48	6	3.8B Bot	4.430 0.710	RES THK-FLM SM0603	R61	10K	M55342K12B10E0TW									
48	6	3.5C Top	0.980 1.000	RES THK-FLM SM0603	R62	10K	M55342K12B10E0TW									
48	6	3.6A Top	1.125 0.090	RES THK-FLM SM0603	R63	10K	M55342K12B10E0TW									
48	6	2.5D Bot	1.185 1.650	RES THK-FLM SM0603	R8	10K	M55342K12B10E0TW									
49	6	3.7B Top	4.335 1.125	RES THK-FLM SM0805	R5	1K	CRCW08051K00FKEA									
50	6	3.2B Bot	0.940 0.425	RES THK-FLM SM0805	R50	2.32K	M55342K06B2E32TW									
51	6	3.2A Bot	0.335 0.400	RES THK-FLM SM0805	R28	2.49K	M55342K06B2E49TW									
51	6	3.1D Bot	2.760 1.925	RES THK-FLM SM0805	R52	2.49K	M55342K06B2E49TW									
51	6	3.1D Bot	2.975 1.925	RES THK-FLM SM0805	R54	2.49K	M55342K06B2E49TW									
52	6	4.9B Bot	4.460 1.605	RES THK-FLM SM0805C	R1	22	M55342K06B22D0TW									
52	6	4.2B Bot	2.295 0.765	RES THK-FLM SM0805C	R10	22	M55342K06B22D0TW									
52	6	4.2B Top	2.250 0.765	RES THK-FLM SM0805C	R11	22	M55342K06B22D0TW									

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52	7	4.2C Top	2.370 0.785	RES THK-FLM SM0805C	R12	22	M55342K06B22D0TW									
52	7	4.2B Top	2.530 0.785	RES THK-FLM SM0805C	R14	22	M55342K06B22D0TW									
52	7	4.2C Top	2.650 0.785	RES THK-FLM SM0805C	R15	22	M55342K06B22D0TW									
52	7	4.2B Bot	2.625 0.765	RES THK-FLM SM0805C	R16	22	M55342K06B22D0TW									
52	7	4.2B Bot	2.515 0.765	RES THK-FLM SM0805C	R17	22	M55342K06B22D0TW									
52	7	4.2B Bot	2.405 0.765	RES THK-FLM SM0805C	R19	22	M55342K06B22D0TW									
52	7	4.9B Bot	4.405 1.415	RES THK-FLM SM0805C	R2	22	M55342K06B22D0TW									
52	7	4.4B Bot	2.785 0.765	RES THK-FLM SM0805C	R20	22	M55342K06B22D0TW									
52	7	4.4B Top	2.775 0.785	RES THK-FLM SM0805C	R21	22	M55342K06B22D0TW									
52	7	4.4C Top	2.895 0.785	RES THK-FLM SM0805C	R22	22	M55342K06B22D0TW									
52	7	4.4B Top	3.055 0.785	RES THK-FLM SM0805C	R24	22	M55342K06B22D0TW									
52	7	4.4C Top	3.175 0.785	RES THK-FLM SM0805C	R25	22	M55342K06B22D0TW									
52	7	4.4B Bot	3.115 0.765	RES THK-FLM SM0805C	R26	22	M55342K06B22D0TW									
52	7	4.4B Bot	3.005 0.765	RES THK-FLM SM0805C	R27	22	M55342K06B22D0TW									
52	7	4.4B Bot	2.895 0.765	RES THK-FLM SM0805C	R29	22	M55342K06B22D0TW									
52	7	4.8B Bot	4.445 1.185	RES THK-FLM SM0805C	R3	22	M55342K06B22D0TW									
52	7	4.6B Bot	3.300 0.765	RES THK-FLM SM0805C	R30	22	M55342K06B22D0TW									
52	7	4.5B Top	3.300 0.785	RES THK-FLM SM0805C	R31	22	M55342K06B22D0TW									

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52	8	4.5C Top	3.420 0.785	RES THK-FLM SM0805C	R32	22	M55342K06B22D0TW									
52	8	4.5B Top	3.580 0.785	RES THK-FLM SM0805C	R34	22	M55342K06B22D0TW									
52	8	4.6C Top	3.700 0.785	RES THK-FLM SM0805C	R35	22	M55342K06B22D0TW									
52	8	4.5B Bot	3.700 0.765	RES THK-FLM SM0805C	R36	22	M55342K06B22D0TW									
52	8	4.5B Bot	3.590 0.765	RES THK-FLM SM0805C	R37	22	M55342K06B22D0TW									
52	8	4.5B Bot	3.410 0.765	RES THK-FLM SM0805C	R39	22	M55342K06B22D0TW									
52	8	4.8B Bot	4.335 1.185	RES THK-FLM SM0805C	R4	22	M55342K06B22D0TW									
52	8	4.7B Bot	3.810 0.765	RES THK-FLM SM0805C	R40	22	M55342K06B22D0TW									
52	8	4.7B Top	3.825 0.785	RES THK-FLM SM0805C	R41	22	M55342K06B22D0TW									
52	8	4.7C Top	3.945 0.785	RES THK-FLM SM0805C	R42	22	M55342K06B22D0TW									
52	8	4.7B Top	4.105 0.785	RES THK-FLM SM0805C	R44	22	M55342K06B22D0TW									
52	8	4.7C Top	4.225 0.765	RES THK-FLM SM0805C	R45	22	M55342K06B22D0TW									
52	8	4.7B Bot	4.140 0.765	RES THK-FLM SM0805C	R46	22	M55342K06B22D0TW									
52	8	4.7B Bot	4.030 0.765	RES THK-FLM SM0805C	R47	22	M55342K06B22D0TW									
52	8	4.7B Bot	3.920 0.765	RES THK-FLM SM0805C	R49	22	M55342K06B22D0TW									
53	8	2.4B Top	0.905 2.005	RES THK-FLM SM0805	R57	4.99K	M55342K06B4E99TW									
54	8	3.4D Top	0.770 0.545	RES THK-FLM SM0805	R55	5.36K	M55342K06B5E36TW									
55	8	3.1B Bot	0.685 0.480	N/A Not Applicable SM0805	R58	N/A 11.0K	Do NOT Install									

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Schematic: 102-73189.1

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56	9	2.5D Top	0.825 1.175	SWITCH PUSH BUTTON SW_KMR2	SW1	KMR221	KMR221NG-LFS									
57	9	3.4B Bot	1.065 0.900	I2C FLASH MEMORY SOT23-5	U12	24CW128	24CW1280T-I/OT									
58	9	2.4D Top	1.125 1.300	LOGIC GATE AND SOT23-6	U6	74LVC1G11	SN74LVC1G11DBVR									
59	9	3.8C Bot	0.595 0.890	LOGIC GATE INVERT ST SOT23-5	U9	74LVC1G14	SN74LVC1G14DBVR									
60	9	3.6B Top	2.060 1.240	LOGIC GATE OD SOT23-6	U10	74LVC2G07	SN74LVC2G07DBVR									
61	9	3.2B Bot	0.265 0.695	OP AMP SOT23-5	U7	LMV321	LMV321IDBVR									
62	9	3.2E Bot	1.955 0.730	Voltage Ref 2.5V SOT23-3	U11	MAX6102	MAX6102EUR+T									
63	9	4.2D Top	2.540 0.390	IC LED DRIVER SO16	U1	TLC5917	TLC5917IDR									
63	9	4.4D Top	2.995 0.390	IC LED DRIVER SO16	U2	TLC5917	TLC5917IDR									
63	9	4.5D Top	3.450 0.390	IC LED DRIVER SO16	U3	TLC5917	TLC5917IDR									
63	9	4.7D Top	3.890 0.390	IC LED DRIVER SO16	U4	TLC5917	TLC5917IDR									
63	9	4.9D Top	3.640 1.885	IC LED DRIVER SO16	U5	TLC5917	TLC5917IDR									
64	9	2.7A Top	1.000 1.750	SWITCHMODE REG(6.0V) TO220-3	VR1	VX7803-1000R	VX7803-1000R									
65	9	2.1D Top	1.860 0.125	CRYSTAL 20.000MHZ 18PF HC49U	X101	ABL-20.000MHZ	ABL-20.000MHZ-B2									
66	9	2.8C Top	1.485 0.620	ZNEO PROCESSOR 128K QFP80	ZNEO	Z16F2811	Z16F2811FI20SG									

NON-POPULATED and NON-PARTS (do not fill in this sheet)

Department of
Physics & Astronomy

Project: Project Name

Assembly: 102-73189

TACHOMETER

Board: 102-73189.1

Schematic: 102-73189.1

	Idx #	Pg #	Comp S/N as needed	Component MIT	Part Type	Ref Des	Part Value	Flight Part Number	Kit by	Value Ver	Insp by	Lead Form	Insp by	Tinned by	Insp by	Appl by	Insp by
3	160	10	2.8E Top	0.000 0.000	Invalid Flight Part(1)	A_PCB2	102-73189	Invalid Flight Part (see schematic)									
9	161	10	1.6F Top	-3.995 -2.995	Documentation Artifact	BRD7	DRAWING FRAME	VP: Documentation Artifact									
10	162	10	1.6F Top	7.980 -2.980	Documentation Artifact	BRD6	DRAWING FRAME	VP: Documentation Artifact									
11	163	10	1.6F Bot	2.435 1.295	Documentation Artifact	BRD9	DRAWING FRAME	VP: Documentation Artifact									
12	164	10	1.6F Bot	3.525 1.455	Documentation Artifact	BRD5	DRAWING FRAME	VP: Documentation Artifact									
13	165	10	Top	-3.850 4.750	Documentation Artifact	BRD22	DRAWING FRAME	VP: Documentation Artifact									
14	166	10	Top	-3.850 4.750	Documentation Artifact	BRD21	DRAWING FRAME	VP: Documentation Artifact									
15	167	10	Top	-3.450 1.250	Documentation Artifact	BRD20	DRAWING FRAME	VP: Documentation Artifact									
16	168	10	1.7F Top	0.000 0.000	Documentation Artifact	BRD8	DRAWING FRAME	VP: Documentation Artifact									