



Project: iCARC FOX HUNT
 Assembly: 102-00000

MATERIAL BUILD RECORD

Department of
 Physics & Astronomy

ICARC DTOA DIRECTION FINDER

Board: 102-73170.A

Schematic: 102-73170.A

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
6	1	2.2C Top	1.475 0.680	CER CAP X7R AXX150	C4	0.01UF	RDE5C1H103J1P1H03B									
6	1	2.2C Top	0.975 1.340	CER CAP X7R AXX150	C5	0.01UF	RDE5C1H103J1P1H03B									
6	1	2.4E Top	0.675 1.545	CER CAP X7R AXX150	C72	0.01UF	RDE5C1H103J1P1H03B									
7	1	2.3B Top	0.975 0.647	CER CAP X7R AXX150	C13	0.1UF	320C104K5R5TA									
8	1	2.4C Top	1.695 1.139	CAP CERAMIC SM1210	C2	10UF/CERAMIC	CL32B106KPINNNE									
8	1	2.4C Top	1.695 0.949	CAP CERAMIC SM1210	C2A	10UF/CERAMIC	CL32B106KPINNNE									
9	1	2.4E Top	0.665 1.325	CAP TANTALUM SMP1210	C73	10UF	10UF									
10	1	3.9B Top	6.000 2.900	COAX CABLE SMA HARDWARE, CABLE	CBL3_ANT	115101-19-18.00	115101-19-18.00									
11	1	3.8B Top	3.325 5.310	COAX CABLE SMA HARDWARE, CABLE	CBL2_ALT	415-0029-MM500	415-0029-MM500									
11	1	3.9B Top	3.320 4.860	COAX CABLE SMA HARDWARE, CABLE	CBL3_ALT	415-0029-MM500	415-0029-MM500									
12	1	3.8B Top	6.000 3.375	COAX CABLE SMA HARDWARE, CABLE	CBL2_ANT	415-0033-018	415-0033-018									
13	1	2.7C Top	2.795 1.044	CAP NPO/BP SM0805	C1	470PF	C0805C471J5GACTU									
13	1	2.6C Top	1.900 1.214	CAP NPO/BP SM0805	C3	470PF	C0805C471J5GACTU									
14	1	3.9C Top	6.000 2.400	COAX CABLE SMA HARDWARE, CABLE	CBL1_RADIO	CCBNS-MM-RG174-18	CCBNS-MM-RG174-18									
15	1	2.7B Top	2.575 1.044	DIODE VARACTOR SOT23-3	D1	BAR63-04	BAR6304E6327HTSA1									
16	1	2.3E Top	0.602 0.755	N/A Not Applicable DO-201-AD	D10	N/A 1N4001	Do NOT Install									
17	1	2.8E Top	6.200 5.400	ENCLOSURE ENCLOSURE	ENCL1	1599BBAT	1599BBKBAT									
19	1	3.9D Top	4.975 4.375	CONTACT HARDWARE, CONTACT	HW51	0016020103	0016020103									



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19	2	3.9D Top	4.975 4.875	CONTACT HARDWARE_CONTACT	HW52	0016020103	0016020103									
19	2	3.9D Top	4.975 5.375	CONTACT HARDWARE_CONTACT	HW53	0016020103	0016020103									
20	2	3.8D Top	4.475 4.625	CONN HOUSING LATCH HARDWARE_HOUSING	HW50	0050579403	0050579403									
21	2	3.8C Top	3.175 4.420	BRASS STANDOFF d.250 4-40 HARDWARE_SPACER	HW6	1547C	1547C									
21	2	3.9C Top	3.450 4.425	BRASS STANDOFF d.250 4-40 HARDWARE_SPACER	HW7	1547C	1547C									
22	2	2.7E Top	5.775 4.100	SCREW-INDIVIDIAL HARDWARE_SCREW	HW1	1593ATS	1593ATS50									
22	2	2.7E Top	6.075 4.100	SCREW-INDIVIDIAL HARDWARE_SCREW	HW2	1593ATS	1593ATS50									
22	2	2.7E Top	6.375 4.100	SCREW-INDIVIDIAL HARDWARE_SCREW	HW3	1593ATS	1593ATS50									
22	2	2.8E Top	6.675 4.100	SCREW-INDIVIDIAL HARDWARE_SCREW	HW4	1593ATS	1593ATS50									
23	2	3.8E Top	4.475 5.125	BATTERY CONTACT & PIGTAIL HARDWARE_BATTERY	HW5	232	232									
24	2	3.9D Top	2.800 4.400	NYLON SPACER D.250 d.125 HARDWARE_WASHER	HW10	9908-250	9908-250									
24	2	3.9D Top	2.800 4.100	NYLON SPACER D.250 d.125 HARDWARE_WASHER	HW11	9908-250	9908-250									
24	2	3.8D Top	2.800 5.050	NYLON SPACER D.250 d.125 HARDWARE_WASHER	HW8	9908-250	9908-250									
24	2	3.8D Top	2.800 4.700	NYLON SPACER D.250 d.125 HARDWARE_WASHER	HW9	9908-250	9908-250									
25	2	2.1E Top	0.230 1.657	CONN-LTCH-MOLEX-R/A HDR-50-57-9403	J4	0705530002	0705530002									
26	2	2.6B Top	2.525 1.687	CONN BNC R/A COAX_SMA_BNC	J2	5414373-1	5414373-1									
26	2	3.8A Top	6.650 -0.425	CONN BNC R/A COAX_SMA_BNC	J2_ALT	5414373-1	5414373-1									
26	2	2.8B Top	2.525 0.400	CONN BNC R/A COAX_SMA_BNC	J3	5414373-1	5414373-1									



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26	3	3.9A Top	6.650 0.100	CONN BNC R/A COAX_SMA_BNC	J3_ALT	5414373-1	5414373-1									
27	3	2.1D Top	1.300 1.560	JUMPER HEADER HDRB_2	JP1	PBC02SAAN	PBC02SAAN									
27	3	2.2B Top	1.800 1.560	JUMPER HEADER HDRB_2	JP2	PBC02SAAN	PBC02SAAN									
28	3	2.8D Top	3.120 1.044	CONN SMA R/A COAX_SMA_BNC	J1	RF2-49B	RF2-49B-T-00-50-G-HDW									
28	3	3.8A Top	1.575 4.750	CONN SMA R/A COAX_SMA_BNC	J2_ANTENNA	RF2-49B	RF2-49B-T-00-50-G-HDW									
28	3	3.9A Top	1.575 4.250	CONN SMA R/A COAX_SMA_BNC	J3_ANTENNA	RF2-49B	RF2-49B-T-00-50-G-HDW									
29	3	2.7C Top	2.255 1.044	INDUCTOR AIAC-1812	L1A	100nH	AIAC-1812-R10									
29	3	2.7B Top	3.100 1.359	INDUCTOR AIAC-1812	L2A	100nH	AIAC-1812-R10									
29	3	2.8B Top	3.100 0.734	INDUCTOR AIAC-1812	L3A	100nH	AIAC-1812-R10									
31	3	2.7C Top	2.255 1.044	N/A Not Applicable IND_0.3	L1	N/A	Do NOT Install									
31	3	2.6B Top	3.100 1.359	N/A Not Applicable IND_0.3	L2	N/A	Do NOT Install									
31	3	2.8B Top	3.100 0.734	N/A Not Applicable IND_0.3	L3	N/A	Do NOT Install									
35	3	2.1F Top	0.325 0.625	Pad PAD0062	PAD1	N/A	VP: Not a Physical Part									
35	3	2.1F Top	0.125 0.625	Pad PAD0062	PAD2	N/A	VP: Not a Physical Part									
36	3	2.6C Top	1.935 1.044	RES THK-FLM SM0805	R5	100	M55342K06B100DTW									
37	3	2.1C Top	1.400 0.994	CARBON FILM CF0.400	R8	27K	CF18JA27K0									
38	3	2.6B Top	2.770 1.359	RES THK-FLM SM0805	R6	330	M55342K06B332DTW									
38	3	2.8B Top	2.770 0.734	RES THK-FLM SM0805	R7	330	M55342K06B332DTW									



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39	4	2.2C Top	1.500 0.994	CARBON FILM CF0.400	R2	59K	RNF18FTD59K0									
40	4	2.6C Top	1.900 0.874	N/A Not Applicable SM0805	R4	N/A 100K	Do NOT Install									
41	4	2.1D Top	1.400 1.875	N/A Not Applicable 3296Z	R1B	N/A 50K	Do NOT Install									
41	4	2.1B Top	1.900 1.875	N/A Not Applicable 3296Z	R3B	N/A 50K	Do NOT Install									
42	4	2.1D Top	1.350 1.675	N/A Not Applicable BOURNS_3310-001	R1	N/A 50K	Do NOT Install									
42	4	2.2B Top	1.850 1.675	N/A Not Applicable BOURNS_3310-001	R3	N/A 50K	Do NOT Install									
43	4	2.2E Top	0.600 1.695	PCB SWITCH SPDT R/A ON-ON SW_ET_A	SW2	200USP1T1A1M6RE	200USP1T1A1M6RE									
45	4	2.3C Top	1.125 0.994	IC OSC SGL TIMER DIL08	U3	TLC555	TLC555CP									

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

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1	63	5	1.6E Top -3.950 -1.950	Documentation Artifact	BRD4	DRAWING FRAME	VP: Documentation Artifact									
2	64	5	1.6F Top 7.000 -1.950	Documentation Artifact	BRD3	DRAWING FRAME	VP: Documentation Artifact									
3	65	5	1.6E Bot 1.280 0.475	Documentation Artifact	BRD7	DRAWING FRAME	VP: Documentation Artifact									
4	66	5	1.6F Bot 1.590 0.280	Documentation Artifact	BRD6	DRAWING FRAME	VP: Documentation Artifact									
5	67	5	1.7E Top 0.000 0.000	Documentation Artifact	BRD5	DRAWING FRAME	VP: Documentation Artifact									
18	68	5	2.7F Top 0.237 0.365	Documentation Artifact	ESD1	DRAWING FRAME	VP: Documentation Artifact									
30	69	5	2.7F Top 0.600 0.070	Documentation Artifact	LOGO1	DRAWING FRAME	VP: Documentation Artifact									
32	70	5	2.9E Top 0.000 0.000	Invalid Flight Part(1)	PCB1	102-73170	Invalid Flight Part (see schematic)									
33	71	5	1.10F Top -3.765 5.460	Documentation Artifact	PWA1	DRAWING FRAME	VP: Documentation Artifact									
34	72	5	1.10E Top -3.745 5.440	Documentation Artifact	PWB1	DRAWING FRAME	VP: Documentation Artifact									
44	73	5	Top -3.325 2.000	Documentation Artifact	U\$1	DRAWING FRAME	VP: Documentation Artifact									
46	74	5	Top -0.175 0.000	Documentation Artifact	U\$2		VP: Artwork Documentation Artifact									
47	75	5	Top 0.000 -0.425	Documentation Artifact	U\$3		VP: Artwork Documentation Artifact									