

Transformix Engineering Inc.

ETM PARTS LIST

Item	Qty	Part Number	Reference Designator	Description	Manufacturer / Supplier
1	2	SA626D	U1	RF Receiver, limiter/discriminator	Phillips / Avnet (Motorola)
2	6	BFR92LT1	Q1, Q2,Q3	RF Transistor, NPN, SOT 23 pkg.	Motorola / Newark
3	2	BAR63 OR MMBV3700	D1	RF Diode, SOT-23 pkg.	Siemens / Avnet
3	4	BAS21DICT-ND	D2, D3	Diode, SOT-23 pkg	Digikey
4	2	RF1238	S1	318 MHz SAW Filter, TO-39 Case, 500 kHz BW	RFM / Insight / Kaytronics
4	2	RO2118A	Y1	318 MHz SAW resonator, +/- 80 kHz SM-2 Case	RFM / Insight / Kaytronics
5	2	RO2123A	Y2	307.3 MHz SAW resonator, +/- 80 kHz SM-2 Case	RFM / Insight / Kaytronics
5	2	ANT-418-PW-QW	ANT1	418 MHz Antenna	Linx
6	4	PCC020CNCT-ND	C9,C32	2 pF, +/- 0.25 pF, NPO dielectric, 50 V, "0805"	Panasonic / Digikey
6	4	PCC030CNCT-ND	C3, C13	3 pF, +/- 0.25 pF, NPO dielectric, 50 V, "0805"	Panasonic / Digikey
7	4	PCC040CNCT-ND	C8, C31	4 pF, +/- 0.25 pF, NPO dielectric, 50 V, "0805"	Panasonic / Digikey
7	2	PCC050CNCT-ND	C20	5 pF, +/- 0.25 pF, NPO dielectric, 50 V, "0805"	Panasonic / Digikey
8	2	PCC060CNCT-ND	C19	6 pF, +/- 0.25 pF, NPO dielectric, 50 V, "0805"	Panasonic / Digikey
8	4	PCC070CNCT-ND	C1, C5	7 pF, +/- 0.25 pF, NPO dielectric, 50 V, "0805"	Panasonic / Digikey
9	2	PCC100CNCT-ND	C17	10 pF, 5%, NPO dielectric, 50 V, "0805"	Panasonic / Digikey
9	2	PCC120CNCT-ND	C21	12 pF, 5%, NPO dielectric, 50 V, "0805"	Panasonic / Digikey
10	2	PCC330CGCT-ND	C4	33 pF, 5%, NPO dielectric, 50 V, "0805"	Panasonic / Digikey
10	2	PCC390CGCT-ND	C28	39 pF, 5%, NPO dielectric, 50 V, "0805"	Panasonic / Digikey
11	4	PCC101CGCT-ND	C35, C40	100 pF, 10%, NPO dielectric, 50 V, "0805"	Panasonic / Digikey
11	2	PCC221CGCT-ND	C51	220 pF, +/- 5%, COG dielectric, 50 V, "0805"	Panasonic / Digikey
12	2	PCC471BCT-ND	C7	470 pF, +/- 10%, X7R dielectric, 50 V, "0805"	Panasonic / Digikey
12	16	PCC102CGCT-ND	C2, C10, C11, C12, C22, C23, C27,C30	1000 pF, +/- 10%, NPO dielectric, 50 V, "0805"	Panasonic / Digikey
13	2	PCC1836CT-ND	C24	47 nF, 10%, X7R dielectric, 50 V, "0805"	Panasonic / Digikey
13	2	PCC103BNCT-ND	C44	0.01 uF, +/- 10%, X7R dielectric, 50 V, "0805"	Panasonic / Digikey
14	24	PCC1840CT-ND	C14, C15, C16, C18, C25, C33, C36, C38, C46, C47, C48, C50	0.1 uF, +/- 10%, X7R dielectric, 50 V, "0805"	Panasonic / Digikey
15	8	T491B335K016AS	C34, C37, C39, C45, C26	3.3uF, +/- 10% molded tantalum, SMD	Kemet / Electrosonic
16	2	T491C226K010AS	C42	22uF, +/- 10% molded tantalum, SMD	Kemet / Electrosonic
17	2	T491D107K010AS	C41	100uF, +/- 10%, molded tantalum, 10V	Kemet / Electrosonic
18	4	JZ080	C6,C29	Trim capacitor, 3.0pF to 8.0pF	Voltronics / RF Spectrum
19	6	P22.1CCT-ND	R1, R8, R16	Resistor, 22.1 ohms, +/- 1%, 1/10 Watt, "0805"	Panasonic / Digikey
20	4	P56.2CCT-ND	R4, R17	Resistor, 56.2 ohms, +/- 1%, 1/10 Watt, "0805"	Panasonic / Digikey
21	8	P100CCT-ND	T-R56, T-R57, T-R58, T-R59, T-R45, R12, K-R43	Resistor, 100 ohms, +/- 1%, 1/10 Watt, "0805"	Panasonic / Digikey
22	2	P121CCT-ND	R9	Resistor, 121 ohms, +/- 1%, 1/10 Watt, "0805"	Panasonic / Digikey
23	2	P221CCT-ND	R10	Resistor, 221 ohms, +/- 1%, 1/10 Watt, "0805"	Panasonic / Digikey
24	8	P332CCT-ND	K-R48, K-R50,K-R51, K-R52, K-R53,K55, R14	Resistor, 332 ohms, +/- 1%, 1/10 Watt, "0805"	Panasonic / Digikey
25	2	P392CCT-ND	R3	Resistor, 392 ohms, +/- 1%, 1/10 Watt, "0805"	Panasonic / Digikey
26	2	R825CCT-ND	R7	Resistor, 825 ohms, +/- 1%, 1/10 Watt, "0805"	Panasonic / Digikey
27	4	P1.00KCCT-ND	R6,R32	Resistor, 1000 ohms, +/- 1%, 1/10 Watt, "0805"	Panasonic / Digikey
28	2	P1.82KCCT-ND	R20	Resistor, 1820 ohms, +/- 1%, 1/10 Watt, "0805"	Panasonic / Digikey
29	10	P4.75KCCT-ND	R11,R13,R19,R30,R42	Resistor, 4750 ohms, +/- 1%, 1/10 Watt, "0805"	Panasonic / Digikey
30	1	P9.09KCCT-ND	K-R44	Resistor, 9.09 kohms, +/- 1%, 1/10 Watt, "0805"	Panasonic / Digikey
31	24	P10.0KCCT-ND	R2, R15, R18, R23, R25, R26, R27, R35, R37,R46, R60, R63	Resistor, 10 kohms, +/- 1%, 1/10 Watt, "0805"	Panasonic / Digikey
32	6	P22.1KCCT-ND	R22, R28, R39	Resistor, 22.1 kohms, +/- 1%, 1/10 Watt, "0805"	Panasonic / Digikey
33	2	P27.4KCCT-ND	R33	Resistor, 27.4 kohms, +/- 1%, 1/10 Watt, "0805"	Panasonic / Digikey
34	1	P34.0KCCT-ND	K-R54	Resistor, 34.0 kohms, +/- 1%, 1/10 Watt, "0805"	Panasonic / Digikey
35	8	P47.5KCCT-ND	R47, R61, R62	Resistor, 47.5 kohms, +/- 1%, 1/10 Watt, "0805"	Panasonic / Digikey
36	2	P68.1KCCT-ND	R5	Resistor, 68.1K kohms, +/- 1%, 1/10 Watt, "0805"	Panasonic / Digikey
37	10	P100KCCT-ND	R24,R31,R34,R36,R49	Resistor, 100 kohms, +/- 1%, 1/10 Watt, "0805"	Panasonic / Digikey
38	4	P1.00MCCT-ND	R38, R29	Resistor, 1 Mohms, +/- 1%, 1/10 Watt, "0805"	Panasonic / Digikey
39	2	3314G-1-105E	VR1	1 Mohm POT, 20%	Bourns / Electrosonic
40	6	PCD1163CT-ND	L1, L2, L9	Inductor, 18 nH, +/- 3 nH, "0805"	Panasonic / Digikey
41	2	PCD1164CT-ND	L7	Inductor, 22 nH, +/- 3 nH, "0805"	Panasonic / Digikey
42	4	PCD1172CT-ND	L3, L4	Inductor, 100 nH, 10%, "0805"	Panasonic / Digikey
43	2	PCD1168CT-ND	L8	Inductor, 47 nH, +/- 3 nH, "0805"	Panasonic / Digikey
44	4	PCD1171CT-ND	L5, L6	Inductor, 82 nH, +/- 3 nH, "0805"	Panasonic / Digikey
45	1	M1003CT-ND	L10	Power Inductor, 15uH	J.W.Miller / Digikey
46	4	SFE10.7MA20-A	FL2, FL3	FM Ceramic Filter, Through hole pkg.	Murata / Avnet
47	2	PIC16C556-04I/SO	U6	PIC Controller, 2K EPROM, SOIC pkg	Microchip / FAI
48	1	TC74HC373AFW-ND	K-U5	D' Latch, Industrial grade "SOIC"	Toshiba / Digikey
49	3	MBRS130LT3	D8, K-D9	Switching Diode, SMB	Motorola / Newark
50	12	MMBT3904ADICT-ND	T-Q4, T-Q5, T-Q6, T-Q7, Q8, Q9,Q11,Q13	General Purpose NPN Transistor, SOT-23 pkg	Vishay / Digikey
51	4	MMBT2907ADICT-ND	Q10, Q12	General Purpose PNP Transistor, SOT-23 pkg	Vishay / Digikey
52	14	L53SRC/E	K-D4, K-D5, K-D6, K-D7, K-D10, K-D11	5mm Round Super Bright Red LEDs	Kingbright / EMX
53	2	LM2902M	U2	Quad OP-Amp, 14-pin SOP	National / Electrosonic
54	2	LM2903MA	U3	Dual Comparator, 8-pin SOP	National / Electrosonic
55	2	LM2951ACM	U9	Adjustable Voltage Regulator	National / Electrosonic
56	1	LT1111CS8	U4	DC/DC Converter, 5V version	Linear / Electrosonic
57	2	50F6916	none	D-Series Snap-in Miniature Power Rocker Switch	Carlingswitch / Newark
58	2	97F9117	none	Plastic Boot for Rocker Switch	APM Hexseal / Newark
59	1		none	4 'D' Cell Battery Holder (Series)	ETM
60	4	640456-8	X3, X4, LED Board X1	MTA-100 Friction Lock Straight Header, 0.100"	AMP / Semad

61	2	PC97-009-1-0	Optional	3.5' MTA .100 22 AWG Ribbon Cable Assembly	AMP / Semad
62	1		none	Polyurethane foam	Crosslink Technology
63	1	2240	X5	9V Battery connector with 8" wire leads	Keystone / EMX
64	1	2340-5111TG	K-X1	0.1" Right-Angle PCB Header, 0.025" sq posts (5 ccts)	Electrosonic
65	1	FARM-001	none	5 button Keypad, 200q domes	Continental Decal
66	2	PCB-001	none	CPU / Transceiver PCB	Century Circuits
67	2	PCB-002	none	LED Board PCB	Century Circuits
68	1	FARM-002	none	Keypad Housing Top	ETM
69	1	FARM-003	none	Keypad Housing Bottom	ETM
70	1	FARM-004	none	Taillight Potting Box	ETM
71	2	FARM-005	none	LED Housing	ETM
72	2	FARM-006	none	Housing Tubes	ETM
73	1	FARM-007	none	Taillight Housing Box	ETM
74	2		none	Red Taillight Lens Cap	ETM
75	1	Assembly	none	Assembly of PCB	Hi-Q.A.

Please Note: Kit includes parts for Keypad,
Taillight, and 2 LED boards

K- Keypad only
T- Taillight only