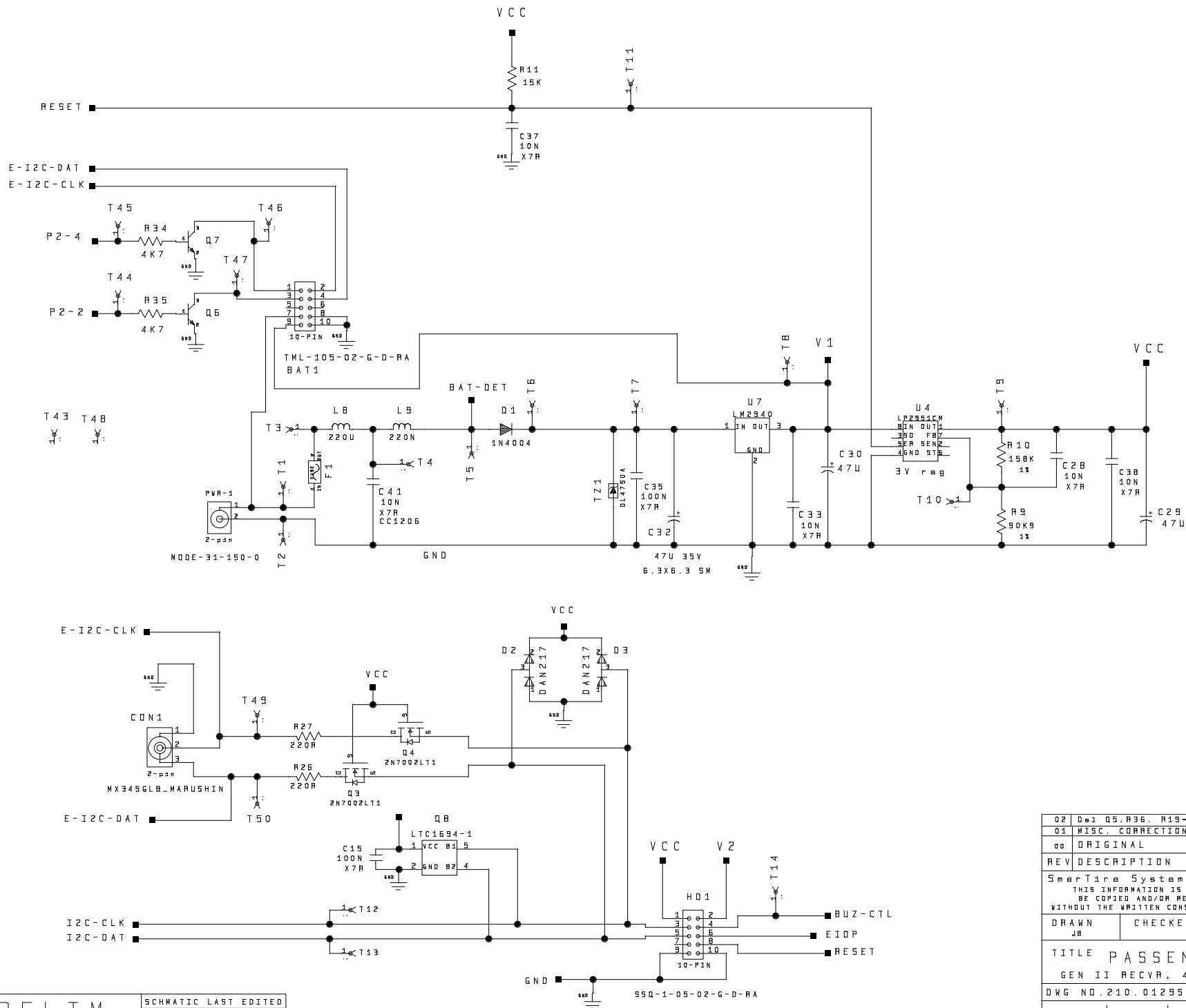
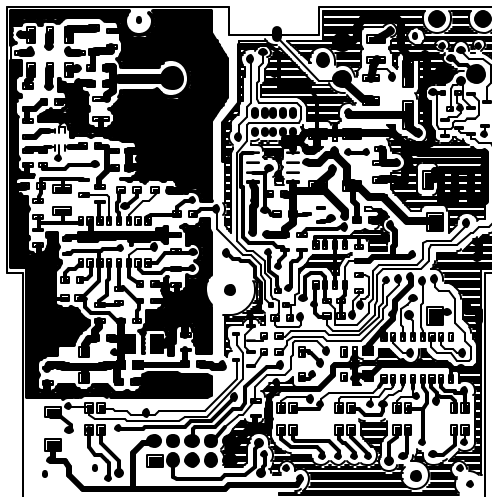




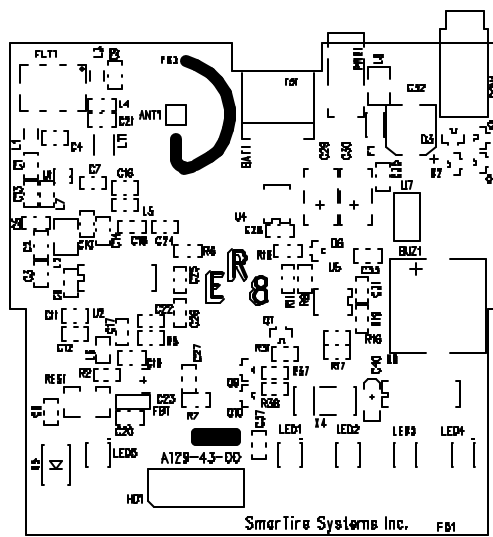
PRELIM.

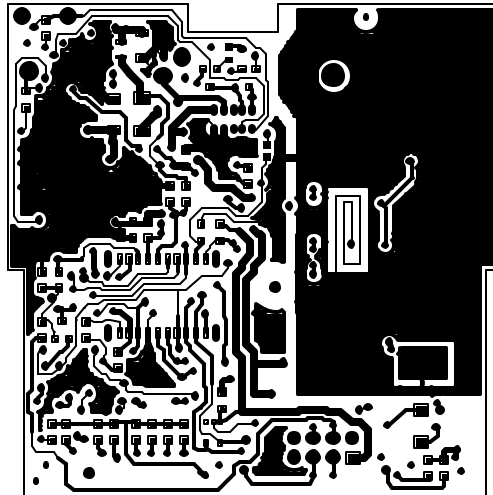
SCHMATIC LAST EDITED
11/23/99

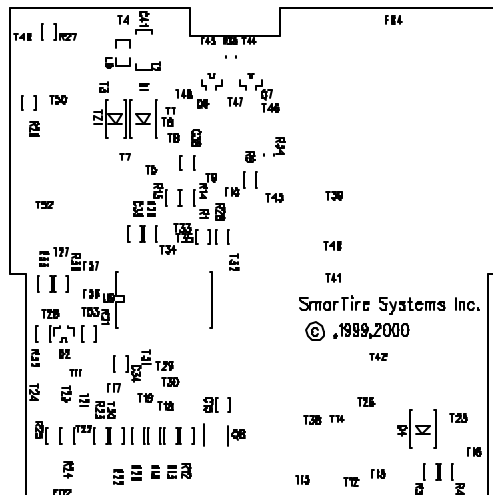
02	D01 Q5,R36, R19-10K	01/20/00	JB
01	MISC. CORRECTIONS	04/09/99	JB
00	ORIGINAL	01/01/99	JB
REV	DESCRIPTION	DATE	INIT
SmartTire Systems Inc. © 1997-2000 THIS INFORMATION IS PROPRIETARY AND MUST NOT BE COPIED AND/OR REVEALED TO THIRD PARTIES WITHOUT THE WRITTEN CONSENT OF SMARTTIRE SYSTEMS INC.			
DRAWN	CHECKED	DESIGNER	MANAGER
JB			
TITLE PASSENGER CAR			
GEN II RECVR, 433MHZ (BI-PHASE)			
DWG NO. 210.01295C02.2			REV 02
PROTO	PILOT	PROD	SHEET 2 OF 2

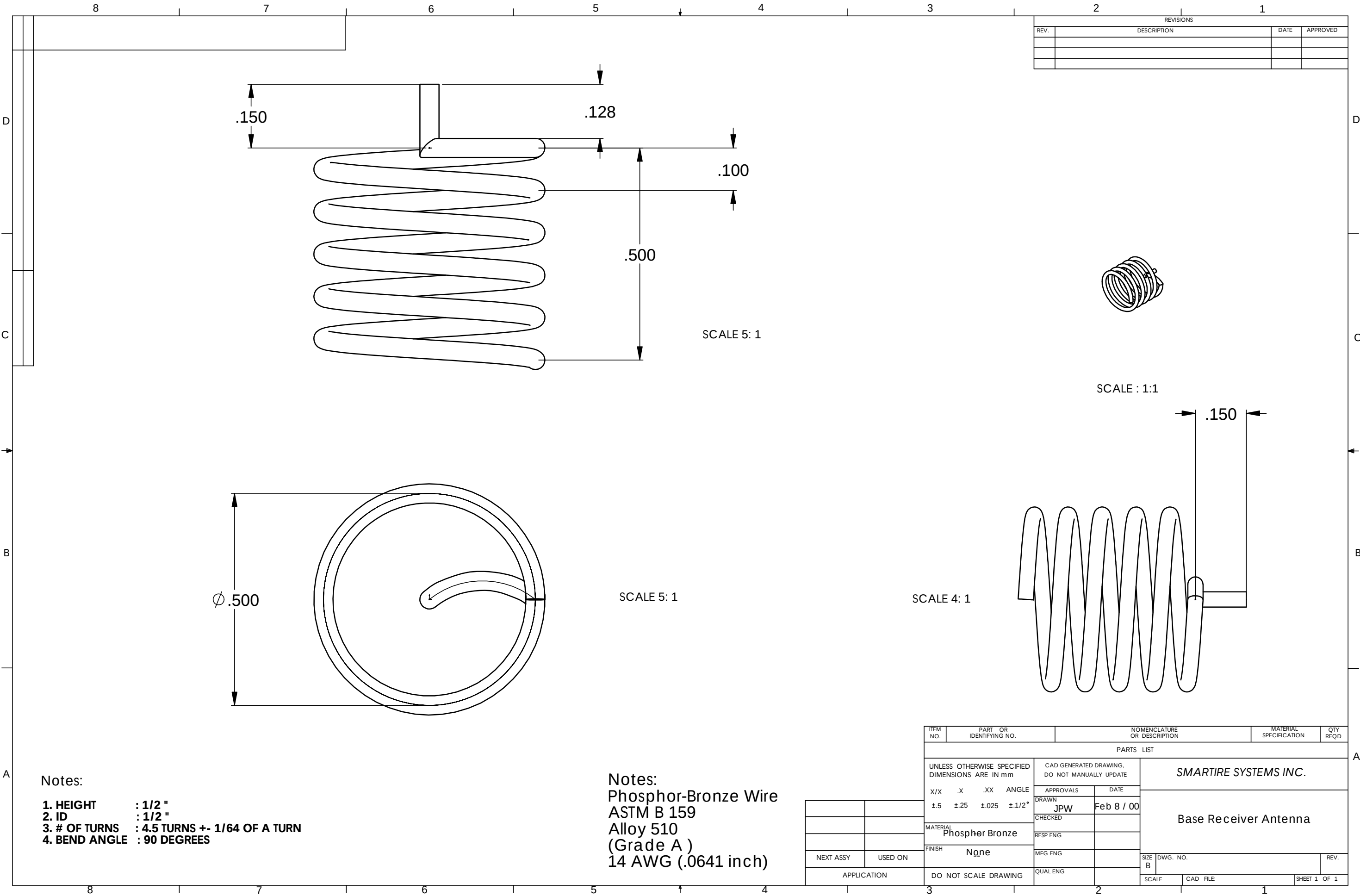


Smartire System Inc.
FR4 Material
0.062" Thick Material
SNOBC / LPISM
1oz Copper
Ident both sides
Solder Mask both sides
Panelize according to Drawing









SmarTire Systems Inc.

Acceptance Checklist - Bill of Materials

Item	Signature - Engineering Manager	Signature - Production Manager
BOM contains all required components		
All components are acceptable as per Specification Sheets or engineering drawings		
All suppliers are acceptable		
Kits; Marketing manager signature		

210.0129	BOM
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210.0129 --RECEIVER PCB - BASE --NEXT ASSY 200.0059
Release 0 Revision 17

Stock code	Qty	Part Description	Rel/ Rev	Part designations	Supplier
<u>210.0131</u>	1	PROGRAMMED MPU-REC-GENII FOR ASSY 210.0129	/	U9	
				** MPU P/N 249.0016, TI:MSP430P112IDW	
				** SOFTWARE P/N 248.0035	

<u>215.0043</u>	1	PCB BARE -REC-GENII-MAIN / FOR ASSY 210.0129	PCB-BARE	OMNI GR
<u>223.0004</u>	10	RESISTOR 100R 1/10W 5% SM / 0805 ROHM:MCR 10 EZHM JW 101	R3 R4 R12 R13 R18 R20 R22 R23 R24 R25	UTECH E
<u>223.0010</u>	5	RESISTOR 10K 1/10W 5% SM / 0805 ROHM:MCR 10 EZHM JW 103	R19 R21 R28 R30 R32	UTECH E
<u>223.0012</u>	6	RESISTOR 100K 1/10W 5% SM / 0805 ROHM:MCR 10 EZHM JW 104	R1 R14 R15 R29 R31 R33	UTECH E
<u>223.0013</u>	1	RESISTOR 680R 1/10W 5% SM / 0805 ROHM:MCR 10 EZHM JW 681	R5	UTECH E
<u>223.0026</u>	1	RESISTOR 27K 1/10W 5% SM / 0805 ROHM:MCR 10 EZHM JW 273	R6	UTECH E
<u>223.0034</u>	1	RESISTOR 15K 1/10W 5% SM / 0805 ROHM:MCR 10 EZHM JW 153	R11	UTECH E
<u>223.0044</u>	4	RESISTOR 220R 1/10W 5% SM / 0805 ROHM:MCR 10 EZHM JW 221	R2 R8 R26 R27	UTECH E
<u>223.0055</u>	4	RESISTOR 4K7 1/10W 5% SM / 0805 ROHM:MCR 10 EZHM JW 472	R16 R17 R37 R38	UTECH E
<u>223.0056</u>	1	RESISTOR 51R 1/10W 5% SM / 0805 ROHM:MCR 10 EZHM JW 510	R7	UTECH E
<u>224.0037</u>	1	RESISTOR 158K 1% 1/10W 805 / CALCHIP:RM10F1583CT	R10	
<u>224.0038</u>	1	RESISTOR 90.9K 1% 1/10W 805 / CHIPTECH:CR0805F9092TI	R9	

<u>225.0031</u>	2	RESISTOR 4k7 1/16W 5% SM 0603 ROHM:MCR03 EZHU J 472	/		R34 R35	
<u>230.0017</u>	5	CAP 100N 10% 50V X7R CER 805 CALCHIP:GMC21 X7R 104 K5ONT	/		C12 C18 C31 C34 C35	UTECH E
<u>230.0018</u>	5	CAP 10N 10% 50V X7R CER 805 ROHM:MCH21 5 C 103 K P	/		C8 C28 C33 C37 C38	UTECH E
<u>230.0032</u>	2	CAP 47U 16V TAN SM D NEMCO:PCT47/16DK	/	1	C29 C30	UTECH E
<u>230.0036</u>	1	CAP 1U 10% 16V TAN 1206 NEMCO:PCT1/16AK	/		C40	UTECH E
<u>230.0037</u>	1	CAP 10U 10V TAN SM B SPRAGUE:293D106X9010B2T	/		C23	UTECH E
<u>230.0049</u>	1	CAP 47U 35V 6.3x6.3 SM NIC:NACE 470M35V 6.3x6.3	/		C32	UTECH E
<u>230.0056</u>	1	CAP 10N 10% 50V X7R 1206 AVX:12065C103KATMA	/		C41	UTECH E
<u>231.0003</u>	1	CAP 47P 5% 50V NPO CER 0805 ROHM:MCH 21 5 A 470 K K	/		C25	UTECH E
<u>231.0008</u>	1	CAP 27P 5% 50V NPO CER 0805 ROHM:MCH 21 5 A 270 K K	/		C11	UTECH E
<u>231.0009</u>	3	CAP 100P 5% 50V NPO CER 0805 ROHM:MCH 21 5 A 101 J K	/		C1 C3 C5	UTECH E
<u>231.0010</u>	2	CAP 10P +-.5P 50V NPO CER 0805 ROHM:MCH 21 5 A 100 DK	/		C4 C9	UTECH E
<u>231.0013</u>	1	CAP 330P 5% 50V NPO CER	1 / 1		C24	UTECH E

	0805 ROHM:MCH 21 5 A 331 K K			
<u>231.00142</u>	CAP 68P 5% 50V NPO CER / 0805 ROHM:GMC21 CG 680 J 50NT	C10 C14	UTECH E	
<u>231.00172</u>	CAP 33P 5% 50V NPO CER / 0805 ROHM:MCH 21 5 A 330 J K	C2 C22	UTECH E	
<u>231.00181</u>	CAP 6P8 +-.25 50V NPO CER / 0805 ROHM:MCH 21 5 A 6R8 C K	C16	UTECH E	
<u>231.00231</u>	CAP 4P7 +-.25P 50V NPO CER / 805 KEMET:C0805 C 479 C 5 G A C	C21	UTECH E	
<u>231.00252</u>	CAP 3P3 +-.25 50V NPO CR / 0805 ROHM:MCH21 5 A 3R3 C K	C7 C17	UTECH E	
<u>231.00391</u>	CAP 1N 5% 50V NPO CER 0805 / ROHM:MCH21 5A 102 J K	C13	UTECH E	
<u>231.00462</u>	CAP 180P 5% 50V NPO CER / 0805 CALCHIP:GMC21CG181J50NT	C20 C27	UTECH E	
<u>231.00471</u>	CAP 3P9 +-.25P 50V NPO CER / 805 CALCHIP:GMC21CG3R9C50NT	C19	UTECH E	
<u>231.00501</u>	CAP 100N 5% X7R 50v CER 805 / CALCHIP:GMC21X7R104J50NT	C15	UTECH E	
<u>231.00521</u>	CAP 150P 5% 50V NPO CER / 0805 ROHM:MCH 21 5 A 151 J K	C6	UTECH E	
<u>231.00581</u>	CAP 6N8 10% 50V X7R CER / 0805	C26		

<u>240.0018</u>	1	IND FERBEAD IMP 750 200ma.7DC MURATA:BLM21A401S	/	0	FB1	FAI-U
<u>240.0043</u>	2	IND 47nH 10% WD SM 1206 COILCRAFT:1206CS-470XKBC	/		L1 L3	COILCRA
<u>240.0072</u>	1	IND 220N 10% WD 0805 CENTRAL-TECH:CT0805CS- 220NK	/		L9	INDUCTO
<u>240.0073</u>	1	ANTENNA, REC-GENII-433 HELICAL 1/2"x1/2"	0 /	0	ANT1	
					NO. OF TURNS=4- 1/2, .120 SPACING, 14 AWG COPPER CLAD STEEL, WITH NICKEL PLATE	
<u>240.0074</u>	1	IND 8N2 5% WD 0805 CENTRAL-TECH:CT0805CS- 8N2J	/		L5	INDUCTO
<u>240.0075</u>	1	IND 39N 5% WD 0805 CENTRAL-TECH:CT0805CS- 39NJ	/		L6	INDUCTO
<u>240.0076</u>	1	IND 470N 5% ML 0805 CENTRAL TECH	/		L7	INDUCTO
<u>240.0085</u>	1	IND 18N 5% CHIP 0805 CTL2012-18NJ	/		L4	INDUCTO
<u>240.0086</u>	1	IND 560N 10% WD 1008 CT1008CS-R56K	/		L11	INDUCTO
<u>241.0004</u>	1	IND 560UH 10% 1210 MURATA:LQH3N561K04M00	/		L2	FAI-U
<u>241.0007</u>	1	IND 220U WD 10% 1210 MURATA:LQH3C221K34	/		L8	INDUCTO
<u>242.0005</u>	6	TRANSISTOR 3904 NPN SOT- 23 MOTOROLA:MMBT3904LT1	/		Q1 Q2 Q6 Q7 Q9 Q10	FAI-U

(R1A)					
<u>242.0021</u>	2	TRANSISTOR 7002 SOT23 MOT:2N7002LT1-SOT23	/	Q3 Q4	FAI-U
<u>243.0008</u>	1	IC 2951 REGULATOR PREC.VOLT SM NAT SEMI:LP2951CM	/ 1	U4	FAI-U
<u>243.0031</u>	1	IC 3201 UHF/VHF RECEIVER PHILIPS:UAA3201T	/	U2	FAI-U
<u>243.0039</u>	1	IC 2940 REGULATOR LM2940 IMP-5.0	/	U7	FAI-U
<u>243.0041</u>	1	IC 900 MHZ LO NOISE AMP HP:INA51063	/	U1	FAI-U
<u>243.0042</u>	1	IC-1694-Active Pullup-SOT23 LINEAR TECH:LTC1694-1CS5	/	Q8	ARROW
<u>245.0015</u>	1	IC 74HC595AD CMOS8BITSERLAT SM MOTOROLA:MC74HC595AD	/	U6	ARROW
<u>253.0006</u>	1	IC 24C16 EPROM ATMEL:AT24C16N-10SI-2.5	/	U5	ALLAMER
<u>254.0006</u>	1	DIODE 202K DUAL COM CATH SOT23 ROHM:DAN202KT146	/	D6	UTECH E
<u>254.0009</u>	2	DIODE 217 DUAL SERIES SOT23 ROHM:DAN217K	/	D2 D3	UTECH E
<u>254.0015</u>	3	DIODE 1-04 GP SURF MT 400V 1A CENTRAL SEMI:CMR1-04	/	D1 D4 D5	UTECH E
<u>254.0024</u>	1	DIODE SML4750A GEN-SEMI:SML4750A	/	TZ1	ALLAMER
<u>255.0052</u>	1	RESONATOR SAW 433.42 SM- 2	/	RES1	IN SIGH

	RFM:RO2112A			
<u>255.0053</u>	1 FILTER SAW 433.92MH SM8558-8 RFM:RF1172B	/	FLT1	IN SIGH
<u>255.0054</u>	1 CRYSTAL 32.76800 KHZ sm CITIZEN:CM200S-32.768000- KDZF	/	X4	ANDERSO
<u>255.0055</u>	1 BUZZER SMI-158 PROJECTS UNLIMITED:SMI- 158	/	BUZZ1	PROJECT
<u>256.0028</u>	5 LED HER/GRN BI-COL SMT HALTRONICS:BL-HE1GO33B- TR	/	LED1 LED2 LED3 LED4 LED5	
<u>260.0080</u>	1 CONNECTOR MARUSHIN:MX345GLB	/	CON1	TARBUC
<u>260.0081</u>	1 HEADER SSQ-1-05-02-G-D-RA	/	HD1	UTECH E
<u>260.0082</u>	1 CONNECTOR-PWR JACK MODE:31-150D-0 -PET MATERIAL	/	PWR-1	INTEK E
<u>260.0083</u>	1 CONNECTOR SAMTEC:TML-105-02-G-D-RA	/	CONNECTOR BAT1	UTECH E
<u>261.0014</u>	1 FUSE 1/2 AMP ALFII SMF SM1206 LITTLEFUSE:429.500	/	F1	FAI-U
<u>999.9990</u>	0 REVISION CONTROL NOTES	/	CREATED 5-APR-99 CL REL 0 REV 0	
			-PROTOTYPE REVISION- -----	
			SEE REV. HISTORY TO REL 0-REV 16 IN /USIDOCs	

REL 0 REV 17 20-
JAN-00 ECO 185

-DELETE R36,Q5

-CHANGE R19 TO
10K 223.0010
