

TEKCOM CODE NO.: TP396-FRS-2

CUSTOMER MODEL : 21-1846

POWER : 500mW(ERP)

CUSTOMER : Radio Shack

FREQUENCY : 1CH(14CH SELECTABLE);FRS;38CTCSS

BRAND NAME: Radio Shack

ISSUE 3.01 7 MAY 02

ISSUE 3.02 10 JULY 02

ITEM	PART NO.	DESCRIPTION	QTY	LOCATED
TRANSISTOR				
1	01-24001A0-A00	DIODE WIN4001	1	D1
2	01-6542512-A00	LED LAMP GREEN MPG4364K	2	LED1,LED2
3	02-31601U0-A00	SMT POWER TRANSISTOR DRF1601 SOT-223	1	Q106
4	02-22838D0-A00	SMT DIODE EDS2838 (SDS2838&1SS184)	1	D111
5	02-2410DN0-A00	SMT DIODE SDP401D (1SS356&1SS241)	3	D102,D103,D109
6	02-27000D0-A00	SMT DIODE EDS7000 (SDS7000&1SS226)	1	D104
7	02-31197QY-A00	SMT TRANSISTOR SSA1197Y (2SB1197K&2SA1298Y)	1	Q16
8	02-3124EC0-A00	SMT TRANSISTOR DTC124EUA	5	Q2,Q3,Q11,Q14,Q113
9	02-3197910-A00	SMT TRANSISTOR 2SA1979U "S&E" (2SA1577Q)	1	Q15
10	02-3271230-A00	SMT TRANSISTOR 2SC2712 (2SC1623)	1	Q301
11	02-3335630-A00	SMT TRANSISTOR 2SC3356	1	Q108
12	02-3409730-A00	SMT TRANSISTOR 2SC4097	6	Q3,Q11,Q14,Q102,Q105,Q107
13	02-3500630-A00	SMT TRANSISTOR 2SC5006 (2SC4226&2SC5085)	3	Q101,Q103,Q109
14	02-3472630-A00	SMT TRANSISTOR 2SC4726	1	Q104
15	02-350863Y-A00	SMT TRANSISTOR 2SC5086-Y "Toshiba"	2	Q110,Q112
16	02-3FMA5G0-A00	SMT TRANSISTOR FMA5A	1	Q4
17	02-25350P0-A00	SMT DIODE BB535 "S&E" (1SV214)	1	VD101
IC				
1	03-0032411-A00	SMT IC LM324M & DBL324V	2	IC103,IC104
2	03-0038610-A00	SMT IC LM386	1	IC105
3	03-11330BM-A00	SMT IC TK11330BM	1	IC4
4	03-93C46SI-A00	SMT IC ERROPE AT93C4610SI-2.7	1	IC3
5	03-5018V01-A00	SMT IC DBL5018V	1	IC101
6	03-8825B01-A00	SMT IC PLL SIT8825B01-ROBO 16-TSSOP-0044	1	IC102
7	03-HT16211-A00	LCD DRIVER HT1621-DAF (DIE PACKING)	1	IC2
8	03-78P567H-A00	IC OTP EM78P567H (DIE PACKING)	1	IC1
CRYSTAL				
1	04-332712Y-A00	CRYSTAL 32.768KHz +/-20PPM 12.5PF D2*6mm	1	X301
2	04-1214208-A00	CRYSTAL FILTER 21.4MHz UM-1 "B"	1	F101
3	04-32952C8-A00	CRYSTAL 20.95MHz UM-5 +/-5PPM	1	X102
4	04-64501NA-A00	CERAMIC FILTER 450KHz (CFWM450G) +/-4.5KHz	1	F102
5	04-84652PK-A00	SAW FILTER 465.14MHz +/-2.5MHz (HDF465M)	1	F103
INDUCTANCE				
1	05-2000121-S50	IFT A001	1	T101
2	05-3201662-A00	SMT FM COIL 2.0T*D1.6*0.35mm (-)	3	L101,L103,L118
3	05-3301662-A00	SMT FM COIL 3.0T*D1.6*0.35mm (-)	3	L102,L104,L105
4	05-3401662-A00	SMT FM COIL 4.0T*D1.6*0.35mm (-)	3	L114,L115,L117
5	05-8221006-A00	SMT CHOKE 1608 22nH +/-10% (ELJRE22NJF2)	1	L113
6	05-8225035-A00	SMT CHOKE 2520 2.2uH +/-20% (ELJFC2R2KF)	3	L109,L110,L120

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7	05-8471006-A00	SMT CHOKE 1608 47nH +/-10% (ELJRE47NJF2)	4	L106,L107,L108,L112
8	05-8682035-A00	SMT CHOKE 2520 0.68uH +/-20% (ELJFCR68MF)	1	L122
RESISTOR PART				
1	06-5102731-A00	CHIP RES 1608 1K OHM 1/10W +/-5%	3	R123,R154,R172
2	06-5122731-A00	CHIP RES 1608 1.2K OHM 1/10W +/-5%	1	R107
3	06-5182731-A00	CHIP RES 1608 1.8K OHM 1/10W +/-5%	1	R207
4	06-5202731-A00	CHIP RES 1608 2K OHM 1/10W +/-5%	1	R142
5	06-5222731-A00	CHIP RES 1608 2.2K OHM 1/10W +/-5%	6	R40,R73,R81,R139,R164,R197
6	06-5272731-A00	CHIP RES 1608 2.7K OHM 1/10W +/-5%	1	R150
7	06-5302731-A00	CHIP RES 1608 3K OHM 1/10W +/-5%	1	R155
8	06-5332731-A00	CHIP RES 1608 3.3K OHM 1/10W +/-5%	4	R9,R31,R61,R79
9	06-5472731-A00	CHIP RES 1608 4.7K OHM 1/10W +/-5%	8	R21,R104,R134,R152,R157 R196,R312,R315
10	06-5562731-A00	CHIP RES 1608 5.6K OHM 1/10W +/-5%	1	R25
11	06-5682731-A00	CHIP RES 1608 6.8K OHM 1/10W +/-5%	2	R84,R133
12	06-5822731-A00	CHIP RES 1608 8.2K OHM 1/10W +/-5%	3	R22,R102,R165
13	06-5103731-A00	CHIP RES 1608 10K OHM 1/10W +/-5%	16	R6,R8,R10,R11,R12 R13,R23,R42,R43,R60 R90,R151,R163,R302,R303 R309
14	06-5123731-A00	CHIP RES 1608 12K OHM 1/10W +/-5%	2	R119,R136
15	06-5133731-A00	CHIP RES 1608 13K OHM 1/10W +/-5%	1	R129
16	06-5153731-A00	CHIP RES 1608 15K OHM 1/10W +/-5%	1	R4
17	06-5183731-A00	CHIP RES 1608 18K OHM 1/10W +/-5%	3	R20,R45,R58
18	06-5203731-A00	CHIP RES 1608 20K OHM 1/10W +/-5%	1	R101
19	06-5223731-A00	CHIP RES 1608 22K OHM 1/10W +/-5%	4	R26,R57,R118,R149
20	06-5303731-A00	CHIP RES 1608 30K OHM 1/10W +/-5%	1	R137
21	06-5333731-A00	CHIP RES 1608 33K OHM 1/10W +/-5%	1	R44
22	06-5473731-A00	CHIP RES 1608 47K OHM 1/10W +/-5%	4	R106,R132,R144,R159
23	06-5513631-A00	CHIP RES 1608 51K OHM 1/16W +/-5%	2	R30,R37
24	06-5563731-A00	CHIP RES 1608 56K OHM 1/10W +/-5%	3	R54,R56,R108
25	06-5683731-A00	CHIP RES 1608 68K OHM 1/10W +/-5%	1	R130
26	06-5823731-A00	CHIP RES 1608 82K OHM 1/10W +/-5%	1	R52
27	06-5104731-A00	CHIP RES 1608 100K OHM 1/10W +/-5%	15	R7,R19,R27,R28,R32 R33,R35,R36,R39,R63 R66,R86,R100,R103,R105
28	06-5124731-A00	CHIP RES 1608 120K OHM 1/10W +/-5%	3	R48,R59,R82
29	06-5134731-A00	CHIP RES 1608 130K OHM 1/10W +/-5%	2	R41,R55
30	06-5204731-A00	CHIP RES 1608 200K OHM 1/10W +/-5%	1	R2
31	06-5224731-A00	CHIP RES 1608 220K OHM 1/10W +/-5%	2	R24,R124
32	06-5274731-A00	CHIP RES 1608 270K OHM 1/10W +/-5%	1	R29
33	06-5334731-A00	CHIP RES 1608 330K OHM 1/10W +/-5%	1	R3
34	06-5394731-A00	CHIP RES 1608 390K OHM 1/10W +/-5%	1	R97
35	06-5474731-A00	CHIP RES 1608 470K OHM 1/10W +/-5%	2	R88,R126
36	06-5564731-A00	CHIP RES 1608 560K OHM 1/10W +/-5%	2	R34,R38

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37	06-5684631-A00	CHIP RES 1608 680K OHM 1/16W +/-5%	1	R46
38	06-5824731-A00	CHIP RES 1608 820K OHM 1/10W +/-5%	2	R47,R198
39	06-5105731-A00	CHIP RES 1608 1M OHM 1/10W +/-5%	1	R301
40	06-5135631-A00	CHIP RES 1608 1.3M OHM 1/16W +/-5%	1	R50,R51
41	06-5155731-A00	CHIP RES 1608 1.5M OHM 1/10W +/-5%	1	R49
42	06-5225631-A00	CHIP RES 1608 2.2M OHM 1/16W +/-5%	1	R53
43	06-5245631-A00	CHIP RES 1608 2.4M OHM 1/16W +/-5%	1	R83
44	06-5047731-A00	CHIP RES 1608 4.7 OHM 1/10W +/-5%	4	R16,R141,R162,R195
45	06-5100731-A00	CHIP RES 1608 10 OHM 1/10W +/-5%	1	R77
46	06-5220731-A00	CHIP RES 1608 22 OHM 1/10W +/-5%	3	R138,R307,R308
47	06-5470731-A00	CHIP RES 1608 47 OHM 1/10W +/-5%	5	R14,R113,R125,R146,R185
48	06-5750731-A00	CHIP RES 1608 75 OHM 1/10W +/-5%	1	R62
49	06-5101731-A00	CHIP RES 1608 100 OHM 1/10W +/-5%	3	R5,R135,R194
50	06-5181731-A00	CHIP RES 1608 180 OHM 1/10W +/-5%	1	R156
51	06-5221731-A00	CHIP RES 1608 220 OHM 1/10W +/-5%	3	R112,R121,R143
52	06-5301731-A00	CHIP RES 1608 300 OHM 1/10W +/-5%	2	R120,R131
53	06-5471731-A00	CHIP RES 1608 470 OHM 1/10W +/-5%	2	R122,R147
54	06-A203117-A00	CHIP SEMI-FIXED 20K EVM3YSX50B24	1	VR103
55	06-C101082-A00	CHIP NTC THERMISTOR 100 OHM +/-3% (1608101H3250)	1	RT102
56	06-7103226-A00	ROTARY V.R 10K(A) [F-12SPT-LL(5)A10K L2.0 (+0.2/-0)]	1	VR303
57	06-8103126-A00	ROTARY V.R 10K(B) [F-12NPT1-LL(5)B10K L2.0 (+0.2/-0)]	1	VR301
58	06-4150740-A00	VARISTOR FNR-5K151 1/10W +/-10%	1	RV1

CAPACITOR PART

1	07-410644C-A00	ELECT CAP 10UF 25V +/-20% D4*5mm	1	C37
2	07-4107244-A00	ELECT CAP 100UF 10V +/-20% D5*8mm	2	C2,C38
3	07-422634C-A00	ELECT CAP 22UF 16V +/-20% D4*5mm	5	C168,C173,C183,C313,C316
4	07-5005601-A00	CHIP CAP 1608 0.5PF 50V +/-0.25PF NPO	1	C108
5	07-5010601-A00	CHIP CAP 1608 1PF 50V +/-0.25PF NPO	1	C166
6	07-5015601-A00	CHIP CAP 1608 1.5PF 50V +/-0.25PF NPO	1	C241
7	07-5030601-A00	CHIP CAP 1608 3PF 50V +/-0.25PF NPO	3	C136,C188,C189
8	07-5040601-A00	CHIP CAP 1608 4PF 50V +/-0.25PF NPO	3	C52,C53,C208
9	07-5050601-A00	CHIP CAP 1608 5PF 50V +/-0.25PF NPO	4	C160,C177,C182,C190
10	07-5060601-A00	CHIP CAP 1608 6PF 50V +/-0.25PF NPO	4	C107,C111,C157,C200
11	07-5070601-A00	CHIP CAP 1608 7PF 50V +/-0.25PF NPO	1	C29
12	07-5080601-A00	CHIP CAP 1608 8PF 50V +/-0.25PF NPO	3	C39,C112,C167
13	07-5100601-A00	CHIP CAP 1608 10PF 50V +/-0.25PF NPO	1	C110
14	07-5120631-A00	CHIP CAP 1608 12PF 50V +/-5% NPO	2	C106,C191
15	07-5150631-A00	CHIP CAP 1608 15PF 50V +/-5% NPO	1	C126
16	07-5220631-A00	CHIP CAP 1608 22PF 50V +/-5% NPO	1	C139
17	07-5240631-A00	CHIP CAP 1608 24PF 50V +/-5% NPO	1	C163
18	07-5300631-A00	CHIP CAP 1608 30PF 50V +/-5% NPO	3	C198,C301,C302
19	07-5330631-A00	CHIP CAP 1608 33PF 50V +/-5% NPO	2	C155,C195
20	07-5470631-A00	CHIP CAP 1608 47PF 50V +/-5% NPO	2	C45,C194
21	07-5680631-A00	CHIP CAP 1608 68PF 50V +/-5% NPO	1	C113
22	07-5101631-A00	CHIP CAP 1608 100PF 50V +/-5% NPO	20	C1,C7,C11,C12,C13

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ISSUE 3.01 7 MAY 02

ISSUE 3.02 10 JULY 02

ITEM	PART NO.	DESCRIPTION	QTY	LOCATED
				C15,C16,C17,C18,C19 C20,C51,C57,C142,C162 C180,C184,C204,C309,C315
23	07-5121631-A00	CHIP CAP 1608 120PF 50V +/-5% X7R	1	C81
24	07-5221661-A00	CHIP CAP 1608 220PF 50V +/-10% X7R	2	C44,C325
25	07-5331661-A00	CHIP CAP 1608 330PF 50V +/-10% X7R	2	C58,C74
26	07-5391661-A00	CHIP CAP 1608 390PF 50V +/-10% X7R	1	C6
27	07-5471661-A00	CHIP CAP 1608 470PF 50V +/-10% X7R	21	C8,C72,C73,C102,C131 C149,C158,C169,C176,C179 C186,C192,C197,C201,C202 C203,C321,C322,C323,C324 C401
28	07-5561661-A00	CHIP CAP 1608 560PF 50V +/-10% X7R	1	C48
29	07-5105281-A00	CHIP CAP 1608 1UF 10V +80-20% Y5V	6	C14,C33,C42,C104,C150 C308
30	07-5104681-A00	CHIP CAP 1608 0.1UF 50V +80-20% Y5V	18	C5,C21,C22,C23,C26 C27,C40,C55,C56,C79 C90,C105,C144,C145,C181 C185,C311,C320
31	07-5103671-A00	CHIP CAP 1608 0.01UF 50V +/-10% X7R	9	C4,C36,C54,C75,C83 C172,C218,C303,C304
32	07-5102661-A00	CHIP CAP 1608 0.001UF 50V +/-10% X7R	23	C3,C9,C25,C34,C43 C77,C118,C122,C133,C137 C138,C140,C141,C147,C148 C151,C153,C156,C159,C178 C212,C213,C240
33	07-5122651-A00	CHIP CAP 1608 0.0012UF 50V +/-10% X7R	1	C175
34	07-5153461-A00	CHIP CAP 1608 0.015UF 25V +/-10% X7R	1	C78
35	07-5182651-A00	CHIP CAP 1608 0.0018UF 50V +/-10% X7R	2	C49,C174
36	07-5222651-A00	CHIP CAP 1608 0.0022UF 50V +/-10% X7R	3	C30,C31,C35
37	07-5223451-A00	CHIP CAP 1608 0.022UF 25V +/-10% X7R	1	C161
38	07-5272651-A00	CHIP CAP 1608 0.0027UF 50V +/-10% X7R	1	C84
39	07-5333661-A00	CHIP CAP 1608 0.033UF 50V +/-10% X7R	1	C32
40	07-5392651-A00	CHIP CAP 1608 0.0039UF 50V +/-10% X7R	2	C41,C46
41	07-5393651-A00	CHIP CAP 1608 0.039UF 50V +/-10% X7R	1	C187
42	07-5473361-A00	CHIP CAP 1608 0.047UF 16V +/-10% X7R	3	C47,C50,C101
43	07-5562651-A00	CHIP CAP 1608 0.0056UF 50V +/-10% X7R	1	C66
44	07-5683671-A00	CHIP CAP 1608 0.068UF 50V +/-10% X7R	1	C80
45	07-6335243-A00	SMT TAN CAP 3216 3.3UF 10V +/-20%	1	C143
46	07-9100412-A00	SMT TRIMMER ELE CAP 10PF (CTZ3S-10A-W1-PF)	1	VC101
CONNECTOR PART				
1	08-1DJ7192-A00	CHARGER DC JACK (DJ-0719-013)	1	J303
2	08-12T0132-A00	D2.5mm STEREO EARPHONE JACK (ST-013)	1	J1
3	08-5170324-A00	PVC WIRE 28# RED 170mm (3+3)	1	
4	08-5170334-A00	PVC WIRE 28# ORANGE 170mm (3+3)	1	

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ITEM	PART NO.	DESCRIPTION	QTY	LOCATED
5	08-5170354-A00	PVC WIRE 28# GREEN 170mm (3+3)	1	
6	08-5170384-A00	PVC WIRE 28# GREY 170mm (3+3)	1	
7	08-A325711-A00	SILICONE INTERCONNECTION "YP" 0.18mm L32.5*H7.0*W1.5mm	1	
SWITCH PART				
1	09-306MA4M-A00	TACT SWITCH TS-06M-ASM	1	PTT/SW10
METAL PARTS				
1	30-1170439-A00	SCREW M1.7*4.0mm PM NI	2	FOR VOX/VOL
2	30-12605H7-A00	SCREW M2.6*5.0mm PWB W=7	7	FOR SPEAKER / PCB&Front Housing
3	30-12606E1-A00	SCREW M2.6*6.0mm PT IRON	3	FOR PCB/FRONT HOUSING
4	30-126106K-A00	SCREW M2.6*10mm PB NI	4	FOR FRONT/BACK HOUSING
5	30-1300861-A00	SCREW M3.0*8.0mm PB IRON	1	ANTENNA/FRONT HOUSING
6	33-3258069-A00	SPRING WASHER M3.0 S/S OD5.8*ID3.2*H0.6mm	1	FOR ANTENNA
7	34-7060801-A00	SPRING OD7.0*ID6.0*L8.0mm	2	FOR PTT
8	35-0184611-A00	LCD MOUNTING PLATE	1	
9	35-6184615-A00	VCO SHIELD CASE	1	
10	36-5184611-A00	TERMINAL	1	
PLASTIC ACCESSORIES				
1	40-1846F11-A00	FRONT HOUSING (A.B.S) (Metallic 877C)	1	
2	40-1846B11-A00	BACK HOUSING (A.B.S) (433U)	1	
3	40-A184611-A00	PTT KEY(ABS) (Metallic 877C)	1	
4	40-A846K12-A00	KEY BOARD (SILICONE) (Black 3U 2X)	1	
5	40-41845V1-A00	VOX/VOL KNOB(ABS) (Black 3U 2X)	2	
6	40-6846L06-A00	LCD PROTECT LENS(PMMA)	1	
7	40-7119055-A00	MIC HOLDER ID9.0*OD10.6*H5.8mm	1	
8	40-0184616-A00	LCD BACK LIGHT PLATE (PMMA)	1	
9	41-1011001-A00	PVC SLEEVE D1.0*1m	0.003	
10	41-3051001-A00	PVC SLEEVE D3.0*1m	0.015	
11	43-0501251-A00	SINGLE COATED SPONGE D12*5mm	1	FOR MIC
12	43-2002062-A00	SINGLE COATED SPONGE D20*6mm	1	FOR SPEAKER
13	44-3783231-A00	CRYSTAL INSULATION PLATE 7.8*3.2*0.2mm	3	
14	44-7047213-A00	FELT D47.2*0.1mm(L4000P)	1	
15	44-81845D2-A00	RUBBER PAD(PU)	4	
PACK PART				
1	60-11845A1-A00	CARTON (21-1846)	0.1	
2	60-9184611-A00	GRAPHIC CARD (21-1846)	1	
3	60-7184611-A00	CLAMSHELL (21-1846)	1	
4	63-4184611-A00	INSTRUCTION BOOKLET (21-1846)	1	
5	64-1184604-A00	RATING LABEL (21-1846)	1	FOR TRANSCEIVER
6	64-4MMAYY0-A00	DATE CODE LABEL (MMAYY)	3	FOR TRANSCEIVER/ G/B / ADAPTER

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7	64-5184611-A00	BAR CODE LABEL (21-1846)	0.1	FOR CARTON
PCB PART				
1	13-1845AR1-A00	MAIN PCB (97*70*1.0mm) (21-1846)	1	
2	13-1845AV1-A00	VOL./POWER PCB (85*18*1.0mm) (21-1846)	1	
3	13-1846CB1-A00	CPU BONDING PCB (23*18*0.6mm) (21-1846)	1	
4	13-1846LB1-A00	LCD BONDING PCB (18*17*0.6mm) (21-1846)	1	
OTHER PART				
1	11-50DS420-A00	MYLAR SPEAKER D50MM 8 ohm 2W (LS-050F053-1007B)	1	SP1
2	14-11846A0-A00	LCD DISPLAY (21-1846)	1	LCD
3	16-EM4F981-A00	CONDENSER MIC EM-4F	1	MIC
4	66-3465022-A00	TELESCOPIC ANTENNA 465MHz (165mm)	1	
5	67-570607S-A00	ADAPTOR AC:120V/60Hz DC:6V/500mA (w/WHITE BOX)	1	