

# Multitone TLA 853 Parts List

<b>ITEM/CIRCUIT REFERENCE</b>	<b>DESCRIPTION</b>	<b>PART No.</b>
<b>ASSEMBLIES</b>		
<b>Modules</b>		
	TLA UHF DECODER, LATIN WITH DISPLAY	0201-1000-LATIN
<b>Case Parts</b>		
	ASSEMBLY CASE FRONT, BLACK	0301-0922
	ASSEMBLY CASE BACK, BLACK	0801-0150
	BATTERY DOOR	0801-0160
	WINDOW MULTITONE	0961-5014
	GASKET DISPLAY SEAL	2561-5007
<b>Miscellaneous</b>		
	BATTERY CONTACT, POSITIVE	7361-4862
	BATTERY CONTACT, NEGATIVE, SPRING	7361-4861
	BATTERY ALKALINE, AAA	5601-0006
	HOLSTER TLA, BLACK	0801-0277
	LANYARD ELASTICATED	7961-5055
	SCREW 2.2mm X 6mm PAN SELFTAP SILV (2 OFF)	8216-2296
<b>Labels - Multitone, Standard</b>		
	LABEL SET BLANK, WHITE, TLA	2061-5061

ITEM/CIRCUIT REFERENCE	DESCRIPTION	PART No.
<b>RADIO BOARD (PCB 3061- 5024)</b>		
<b>Capacitors</b>		
C401	CAP CHIP 8p2 0.25p 50V	3301-0012
C402	CAP CHIP 1u0 -20/+80% 16V	3301-0277
C403,410,412,416,484	CAP CHIP 10n 10% 50V	3327-0025
C404,406,414,418,453, 457,466,478	CAP CHIP 100p 5% 50V	3326-0027
C407,408	CAP, CHIP 3p9 0p25 50V	3326-0010
C409,413,423,419,450,452, 469,471,474,479,480	CAP CHIP 100n 10% 16V	3332-0014
C417,426	CAP CHIP 33p 5% 50V	3326-0021
C420	CAP CHIP 220n 10% 16V	3301-0337
C432,440,447	CAP CHIP 4p7 0p25 50V	3326-0011
C436,490	CAP CHIP 22u 20% 4V0	3412-0005
C437	CAP CHIP 330n 16V 0805	3301-0339
C441	CAP CHIP 1p8 0.25p 50V	3301-0004
C445	CAP CHIP 1p2 0p25 50V	3326-0004
C448	CAP CHIP 3n3 10% 50V	3327-0019
C449	CAP CHIP 22n +80-20% 50V	3328-0009
C451	CAP CHIP 30p 2% 50V	3336-0018
C455	CAP CHIP 10p 0p5 50V	3326-0015
C462,465	CAP CHIP 2p2 0p25 50V	3326-0007
C470	CAP CHIP 10u 20% 6V3	3412-0106
C472	CAP CHIP 1n0 10% 50V	3327-0013
C483	CAP CHIP 560p	3326-0036
C486	CAP CHIP 68n	3332-0012
C492	CAP CHIP 4.7u 6.3V	3412-0104
CV404,405,406,407	CAP TRIMMER 10p, REAR ADJUST	3502-0018

**ITEM/CIRCUIT  
REFERENCE**

**DESCRIPTION**

**PART No.**

**Banded Capacitors**

	<b>BAND 0 412-416MHz</b>	<b>BAND 1 430-434.999MHz</b>	<b>BAND 2 435-439.999MHz</b>	<b>BAND 3 440-443.999MHz</b>
C428	10p	13p	13p	13p
C459	18p	11p	11p	11p
C463	12p	13p	13p	13p
C464	12p	12p	12p	12p

	<b>BAND 5 447-450.999MHz</b>	<b>BAND 6 451-456.999MHz</b>	<b>BAND 7 457-462.999MHz</b>	<b>BAND 8 463-469.999MHz</b>
C428	12p	12p	12p	11p
C459	10p	10p	8p2	8p2
C463	11p	11p	10p	10p
C464	11p	11p	11p	10p

**DESCRIPTION**

**PART No.**

CAP CHIP 8p2 0p5 50V	3326-0014
CAP CHIP 10p 0p5 50V	3326-0015
CAP CHIP 11p 2% 50V	3336-0013
CAP CHIP 12p 5% 50V	3326-0016
CAP CHIP 13p 2% 50V	3336-0014
CAP CHIP 18p 5% 50V	3326-0018

**Crystals & Filters**

FL401	FILTER 45MHz	4001-0024
FL402,403	CERAMIC IF FILTER	4018-0002
FL404	FILTER CHIP	4003-0005
XL401	XTAL , SECOND L.O., 44.545MHz	3915-0015
XL402	XTAL (FIRST LOCAL OSCILLATOR)	3948-05*
XL403	XTAL SMD 76.8kHz	3922-0011

\*QUOTE THE CHANNEL FREQUENCY TO 6 DECIMAL PLACES

**ITEM/CIRCUIT  
REFERENCE**

**DESCRIPTION**

**PART No.**

**Inductors**

L406	IND CHIP 390n	4111-0045
L407	IND CHIP 15n 5%	4103-0244
L408	IND CHIP 270n 5%	4103-0264
L411,413,415	IND CHIP 8n2 5%	4118-0023
L412	IND CHIP 1u0 5%	4103-0278
L414	INDUCTOR 100u 10%	4114-0069

**Banded Inductors**

	<b>BAND 0 412-416MHz</b>	<b>BAND 1 430-434.999MHz</b>	<b>BAND 2 435-439.999MHz</b>	<b>BAND 3 440-443.999MHz</b>
L401	18n	15n	15n	12n
L409	680n	470n	470n	470n

	<b>BAND 447-450.999MHz</b>	<b>BAND 6 451-456.999MHz</b>	<b>BAND 7 457-462.999MHz</b>	<b>BAND 8 463-469.999MHz</b>
L401	12n	12n	12n	12n
L409	470n	470n	470n	470n

	<b>DESCRIPTION</b>	<b>PART No.</b>
L401	IND CHIP 18n 5%	4103-0245
	IND CHIP 15n 5%	4103-0244
	IND CHIP 12n 5%	4103-0243
L409	IND CHIP 470n 5%	4103-0270
	IND CHIP 680n 5%	4103-0274

**Resistors**

R401	RES CHIP 56S 5% 62m5W	3115-0044
R402	RES CHIP 10k 5% 62m5W	3115-0098
R403,406,408,439,448,470	RES CHIP 100S 5% 62m5W	3115-0050
R404,446	RES CHIP 1k0 5% 62m5W	3115-0074
R405	RES CHIP 18k 5% 62m5W	3115-0104
R407	RES CHIP 68k0 5% 62m5W	3115-0118
R409,443	RES CHIP 4k7 5% 62m5W	3115-0090
R410	RES CHIP 33k 5% 62m5W	3115-0110
R411	RES CHIP 22k 5% 62m5W	3115-0106
R416	RES CHIP 68k 5% 62m5W	3115-0118
R418	RES CHIP 47k 5% 62m5W	3115-0114
R420,455,457,471	RES CHIP 100k 5% 62m5W	3115-0122
R425,428,429	RES CHIP 180k 5% 62m5W (512 Baud)	3115-0128
R425,428,429	RES CHIP 82k 5% 62m5W (1200 Baud)	3115-0120
R425,428,429	RES CHIP 39k 5% 62m5W (2400 Baud)	3115-0112

<b>ITEM/CIRCUIT REFERENCE</b>	<b>DESCRIPTION</b>	<b>PART No.</b>
R430	RES CHIP 0S 5% 62m5W	3115-0001
R433	RES CHIP 1k2 5% 62m5W	3115-0076
R434	RES CHIP 15k 5% 62m5W	3115-0102
R438,445	RES CHIP 680S 5% 62m5W	3115-0070
R440,452	RES CHIP 220S 5% 62m5W	3115-0058
R450	RES CHIP 10S 5% 62m5W	3115-0026
R451	RES CHIP 180S 5% 62m5W	3115-0056

### **Semiconductors**

IC401	IC TK14590V	3825-0002
IC402	IC POCSAG DECODER	3820-0025
TR401,403,410	TRANS CHIP NE85619	3601-0013
TR 402,414	TRANS CHIP NPN 2SC4726-TL	3602-0052
TR406	TRANS CHIP BCX17	3602-0026
TR407	TRANS CHIP 2SA1774	3602-0049
TR415	TRANS CHIP RN1305	3611-0002
TR416	TRANS CHIP 2SD1757KS	3602-0038

### **Miscellaneous**

AE401	AERIAL SECTION OUTER HALF	5561-4982
AE402	AERIAL SECTION INNER HALF	5561-4983
PL401	HEADER DUAL ROW POST 14-WAY	4332-0002
SP401	TRANSDUCER	5004-0006

ITEM/CIRCUIT REFERENCE	DESCRIPTION	PART No.
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## DECODER ASSEMBLY (PCB 3061- 4988)

### Capacitors

C3,6,8,9,10,11,14,19,20,21, 22,23,24,25	CAP CHIP 100n 10% 16V	3332-0014
C4	CAP CHIP 47p 5% 50V	3326-0023
C5	CAP CHIP 22p 5% 50V	3326-0019
C7	CAP CHIP 10u 20% 6V3	3412-0106
C12,15	CAP CHIP 47u 20% 6V3	3412-0110
C13	CAP CHIP 100p 5% 50V	3326-0027
C17,18	CAP CHIP 1u0 -20/+80% 16V	3301-0277

### Diodes

D1	DIODE RB400D	3703-0045
D2	DIODE RB715F	3710-0005

### Inductors

L2	IND CHIP 100u	4119-0001
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### Resistors

R1,6,9	RES CHIP 1k0 5% 62m5W	3115-0074
R2,3,4,5	RES CHIP 33k 5% 62m5W	3115-0110
R7,17	RES CHIP 10k 5% 62m5W	3115-0098
R8	RES CHIP 47S 5% 62m5W	3115-0042
R11,20	RES CHIP 470k 2% 62m5W	3118-0138
R12	RES CHIP 150k 2%	3118-0126
R13	RES CHIP 680k 2%	3118-0142
R14	RES CHIP 1M0 5% 62m5W	3115-0146
R15,16	RES CHIP 220S 5% 62m5W	3115-0058
R18,19	RES CHIP 100k 5% 62m5W	3115-0122

<b>ITEM/CIRCUIT REFERENCE</b>	<b>DESCRIPTION</b>	<b>PART No.</b>
<b>Semiconductors</b>		
IC1	IC 512X8 EPROM	3818-0006
IC3	MICROPROCESSOR, OTP TLA852	0501-0217
IC4	IC 32KX8 SRAM	3821-0009
IC5	IC VOLTAGE DETECTOR 2V0	6003-0011
IC6	IC VOLTAGE CONVERTER 3V3	6004-0003
TR1	CHIP TRANS DTC115TUA	3611-0004
TR2	TRANS BCX17	3602-0026
TR3	TRANS RN1305	3611-0002
TR4	TRANS 2SD1757KS	3602-0038
<b>Miscellaneous</b>		
BAT 2	BAT POLY CAP PAS621L-VL5	3331-0002
LCM	DISPLAY LCD, EMC-A0861-1	5206-0019
LP1	LAMP, BACKLIGHT	5202-0007
M1	MOTOR VIBRATE	6502-0007
SK1	HEADER DUAL ROW RECEPT 14-WAY SMD	4449-0002
SW1,2,3	SWITCH SMD KSR221G	4202-0026
XL1	RESONATOR 4.19MHz	4005-0017
	MOULDING, BEZEL LCD	0861-4878
	DIFFUSER, DISPLAY	2361-5008
	SPACER MOULDING RUBBER	0861-5209