

5 T838 PCB Information

This section provides parts lists, PCB layouts and circuit diagrams for the T838 power amplifier.

This section contains the following information.

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5.1 Introduction

PCB Identification

All PCBs are identified by a unique 10 digit number, the last 2 digits of which define the issue status. The issue status starts at 00 and increments through 01, 02, 03, etc. as the PCB is updated. Some issue PCBs never reach full production status and are therefore not included in this manual. A letter following the 10 digit IPN has no relevance in identifying the PCB for service purposes.

Parts Lists

The 10 digit numbers (000-00000-00) in this Parts List are “internal part numbers” (IPNs). Your spare parts orders can be handled more efficiently if you quote the IPN and provide a brief description of the part.

The components listed in this parts list are divided into two main types: those with a circuit reference (e.g. C2, D1, R121, etc.) and those without (miscellaneous and mechanical).

Those with a circuit reference are grouped in alphabetical order and then in numerical order within each group. Each component entry comprises three or four columns, as shown below:

Ref	Var	IPN	Description
C126		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V
C127		020-09220-01	CAP ELECT RADL 220M 16V 10X12.5MM
C128		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V
C129		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V
&C130	10	015-25100-08	CAP CER 0805 CHIP 10N 10% X7R 50V
&C130	15	015-24470-08	CAP CER 0805 CHIP 4N7 10% X7R 50V
&C130	20	015-25100-08	CAP CER 0805 CHIP 10N 10% X7R 50V
&C130	25	015-24470-08	CAP CER 0805 CHIP 4N7 10% X7R 50V
C131		015-24100-08	CAP CER 0805 CHIP 1N 10% X7R 50V
C132		015-24470-08	CAP CER 0805 CHIP 4N7 10% X7R 50V
C133		015-05470-08	CAP CER 1206 CHIP 47N 10% X7R 50V

Annotations:

- circuit reference - lists components in numerical order (points to Ref column)
- variant column - indicates that this component is fitted only to this variant (points to Var column)
- description - gives a brief description of the component (points to Description column)
- Internal Part Number - order the component by this number (points to IPN column)

The miscellaneous and mechanical section lists the variant and common parts in IPN order.

5.2 T838 PA PCB

This section contains the following information.

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220-01100-01	Parts List Mechanical & Miscellaneous Parts PCB Layout - Bottom Side PCB Layout - Top Side Circuit Diagram Wiring Diagram	5.2.3 5.2.5 5.2.7 5.2.8 5.2.9 5.2.10
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T838 Parts List (IPN 220-01100-01)

How To Use This Parts List

The components listed in this parts list are divided into two main types: those with a circuit reference (e.g. C2, D1, R121, etc) and those without (miscellaneous and mechanical).

Those with a circuit reference are grouped by component type in numerical order. Each component entry comprises three or four columns: the circuit reference, variant number (if applicable), IPN and description. A number in the variant column indicates that this component is fitted only to that variant.

The miscellaneous and mechanical section lists the variant and common parts in IPN order.

Parts List Amendments

There were no amendments to the parts list at the time of publication.

Ref	Var	IPN	Description	Ref	Var	IPN	Description
C1		022-04470-01	CAP MYLAR 4N7 10% 50V	C75		029-03100-02	CAP MICA 5MM CASE 100P 5%
C2		011-53220-01	CAP CER AI 220P 10% N750 50/63V	CV76		028-02600-01	CAP TRIM 5/60P FILM 3TAG PH 809
C3		022-04470-01	CAP MYLAR 4N7 10% 50V	C15		015-03680-03	CAP CER CHIP 680P 5% NPO 100V HIQ GRH111
C4		011-53220-01	CAP CER AI 220P 10% N750 50/63V	C78		029-02150-02	CAP MICA 5MM CASE 15P 5%
C5		011-53220-01	CAP CER AI 220P 10% N750 50/63V	C85		029-02150-02	CAP MICA 5MM CASE 15P 5%
C6		011-53220-01	CAP CER AI 220P 10% N750 50/63V	C87		011-53150-01	CAP CER AI 150P 5% N150 50/63V
C7		022-05100-01	CAP MYLAR 10N 10% 50V	C88		029-02680-02	CAP MICA 5MM CASE 68P 5%
C8		011-54100-01	CAP CER AI 1N 10% T/C B 63V	C89		029-02680-02	CAP MICA 5MM CASE 68P 5%
C9		011-53220-01	CAP CER AI 220P 10% N750 50/63V	CC90		015-03220-03	CAP CER CHIP 220P 5% NPO 500V HIQ GRH111
C10		011-53220-01	CAP CER AI 220P 10% N750 50/63V	CC91		015-03220-03	CAP CER CHIP 220P 5% NPO 500V HIQ GRH111
C11		022-05100-01	CAP MYLAR 10N 10% 50V	C92		017-15470-01	CAP CER SURFACE BARRIER 47N 20% 50V
C12		011-54100-01	CAP CER AI 1N 10% T/C B 63V	C93		022-05100-01	CAP MYLAR 10N 10% 50V
C13		011-54100-01	CAP CER AI 1N 10% T/C B 63V	C94		011-53220-01	CAP CER AI 220P 10% N750 50/63V
C14		022-05100-01	CAP MYLAR 10N 10% 50V	C95		029-03100-02	CAP MICA 5MM CASE 100P 5%
C15		011-54100-01	CAP CER AI 1N 10% T/C B 63V	CV96		028-02600-01	CAP TRIM 5/60P FILM 3TAG PH 809
C16		011-53220-01	CAP CER AI 220P 10% N750 50/63V	CC97		015-03680-03	CAP CER CHIP 680P 5% NPO 100V HIQ GRH111
C19		011-53220-01	CAP CER AI 220P 10% N750 50/63V	C98		029-02150-02	CAP MICA 5MM CASE 15P 5%
C20		011-53220-01	CAP CER AI 220P 10% N750 50/63V	C99		020-08470-07	CAP ELECT RADL 47M 16V 10X13MM HI TEMP
CC20A		015-24100-08	CAP CER 0805 CHIP 1N 10% X7R 50V	C105		029-02270-02	CAP MICA 5MM CASE 27P 5%
C21		020-07470-04	CAP ELECT RADL 4M7 25V 20% 8X13MM SOLID	C106		029-02120-03	CAP MICA 10MM CASE 12P 2%
C22		011-53220-01	CAP CER AI 220P 10% N750 50/63V	C106A		010-01330-01	CAP CER 3P3 +/-0.5P NPO 500V
C23		022-04470-01	CAP MYLAR 4N7 10% 50V	C107		029-02270-03	CAP MICA 10MM CASE 27P 2%
C24		011-53220-01	CAP CER AI 220P 10% N750 50/63V	C107A		010-01470-01	CAP CER 4P7 +/-0.5P NPO 500V
C25		011-53220-01	CAP CER AI 220P 10% N750 50/63V	C108		029-02330-04	CAP MICA 10MM CASE 33P 2%
C26		022-05100-01	CAP MYLAR 10N 10% 50V	C109		029-02270-03	CAP MICA 10MM CASE 27P 2%
C27		022-56100-10	CAP MYLAR AI 100N 5% 63V POTTED	C109A		010-01470-01	CAP CER 4P7 +/-0.5P NPO 500V
C28		022-56680-10	CAP MYLAR AI 68N 5% 63V POTTED	C110		029-02120-03	CAP MICA 10MM CASE 12P 2%
C29		011-53220-01	CAP CER AI 220P 10% N750 50/63V	C110A		010-01330-01	CAP CER 3P3 +/-0.5P NPO 500V
C30		011-53220-01	CAP CER AI 220P 10% N750 50/63V				
C31		011-53220-01	CAP CER AI 220P 10% N750 50/63V	D1		008-00013-32	(S) LED 3MM RED LO CURRENT NO MTG
C33		020-07470-04	CAP ELECT RADL 4M7 25V 20% 8X13MM SOLID	D2		008-00013-35	(S) LED 3MM GREEN LO CURRENT NO MTG
C40		029-02220-02	CAP MICA 5MM CASE 22P 5%	D3		008-00013-32	(S) LED 3MM RED LO CURRENT NO MTG
C41		029-02820-02	CAP MICA 5MM CASE 82P 5%	D4		001-50012-00	(S) DIODE AI 1N4148 SI GEN PURPOSE
C42		029-03180-02	CAP MICA 5MM CASE 180P 5%	D5		001-50012-00	(S) DIODE AI 1N4148 SI GEN PURPOSE
C43		017-15470-01	CAP CER SURFACE BARRIER 47N 20% 50V	D6		001-00013-45	(S) DIODE SCHOTTKY 1SS97/2
C44		022-05470-01	CAP MYLAR 47N 10% 50V	D7		001-00013-45	(S) DIODE SCHOTTKY 1SS97/2
C45		011-53220-01	CAP CER AI 220P 10% N750 50/63V	D8		001-00013-45	(S) DIODE SCHOTTKY 1SS97/2
C46		020-08470-07	CAP ELECT RADL 47M 16V 10X13MM HI TEMP	D9		001-00013-45	(S) DIODE SCHOTTKY 1SS97/2
C47		029-02390-02	CAP MICA 5MM CASE 39P 5%				
CC49		015-03680-03	CAP CER CHIP 680P 5% NPO 100V HIQ GRH111	FX1		065-00010-04	BEAD FERRITE F8 4X2X5MM
C50		029-03100-02	CAP MICA 5MM CASE 100P 5%				
C51		029-03220-02	CAP MICA 5MM CASE 220P 5%	IC1		002-00010-60	(S) IC LM339 QUAD COMPTR
C52		017-15470-01	CAP CER SURFACE BARRIER 47N 20% 50V	IC2		002-00014-62	(S) IC 317L 100MA REG 3 TERMINAL TO-92
C53		022-05470-01	CAP MYLAR 47N 10% 50V				
C54		011-53220-01	CAP CER AI 220P 10% N750 50/63V	L1		056-00021-01	IND FXD 1.5UH AXIAL
C55		020-08470-07	CAP ELECT RADL 47M 16V 10X13MM HI TEMP	L2		056-00021-01	IND FXD 1.5UH AXIAL
C56		029-02680-02	CAP MICA 5MM CASE 68P 5%	L5		056-00021-01	IND FXD 1.5UH AXIAL
CV57		028-02600-01	CAP TRIM 5/60P FILM 3TAG PH 809	L6		052-08130-25	COIL A/W 2.5T/3.0MM HOR 0.8MM WIRE
CC58		015-03680-03	CAP CER CHIP 680P 5% NPO 100V HIQ GRH111	L11		052-08335-10	COIL A/W 1T/3.5MM SMD 0.8MM WIRE
C59		029-02270-02	CAP MICA 5MM CASE 27P 5%	L13		065-00010-04	BEAD FERRITE F8 4X2X5MM
C65		029-02150-02	CAP MICA 5MM CASE 15P 5%	L14		052-08340-50	COIL A/W 5T/4.0MM SMD 0.8MM WIRE
C67		011-53150-01	CAP CER AI 150P 5% N150 50/63V	L19		052-08140-55	COIL A/W 5.5T/4.0MM HOR 0.8MM WIRE
C68		029-02680-02	CAP MICA 5MM CASE 68P 5%	L21		052-08130-25	COIL A/W 2.5T/3.0MM HOR 0.8MM WIRE
C69		029-02680-02	CAP MICA 5MM CASE 68P 5%	L25		052-08340-50	COIL A/W 5T/4.0MM SMD 0.8MM WIRE
CC70		015-03220-03	CAP CER CHIP 220P 5% NPO 500V HIQ GRH111	L30		065-00010-04	BEAD FERRITE F8 4X2X5MM
CC71		015-03220-03	CAP CER CHIP 220P 5% NPO 500V HIQ GRH111	L31		052-08135-65	COIL A/W 6.5T/3.5MM HOR 0.8MM WIRE
C72		017-15470-01	CAP CER SURFACE BARRIER 47N 20% 50V	L33		052-08335-20	COIL A/W 2T/3.5MM SMD 0.8MM WIRE
C73		022-05100-01	CAP MYLAR 10N 10% 50V	L34		052-08340-50	COIL A/W 5T/4.0MM SMD 0.8MM WIRE
C74		011-53220-01	CAP CER AI 220P 10% N750 50/63V	L40		052-08340-50	COIL A/W 5T/4.0MM SMD 0.8MM WIRE

Ref	Var	IPN	Description	Ref	Var	IPN	Description
L45		065-00010-04	BEAD FERRITE F8 4X2X5MM				
L46		052-08135-65	COIL A/W 6.5T/3.5MM HOR 0.8MM WIRE				
L48		052-08335-20	COIL A/W 2T/3.5MM SMD 0.8MM WIRE				
L49		052-08340-50	COIL A/W 5T/4.0MM SMD 0.8MM WIRE				
L52		052-08335-50	COIL A/W 5T/3.5MM SMD 0.8MM WIRE				
L53		052-08340-50	COIL A/W 5T/4.0MM SMD 0.8MM WIRE				
L54		052-08340-50	COIL A/W 5T/4.0MM SMD 0.8MM WIRE				
L55		052-08335-50	COIL A/W 5T/3.5MM SMD 0.8MM WIRE				
Q1		000-00011-05	(S) XSTR BC547B NPN AF SML SIG TO92				
Q2		000-00011-05	(S) XSTR BC547B NPN AF SML SIG TO92				
Q3		000-00020-70	(S) XSTR BS170 JFET TO-92 SMALL SIG				
Q4		000-00020-70	(S) XSTR BS170 JFET TO-92 SMALL SIG				
Q5		000-00030-95	(S) XSTR 2N6107 PNP TO-220 AF PWR				
Q5A		000-00010-60	(S) XSTR BC327 PNP AF PWR TO92				
Q8		000-00030-65	(S) XSTR 2N6080 NPN STUD MTG VHF PWR 4W				
Q9		000-00030-53	(S) XSTR 2N5590 NPN STUD MTG VHF PWR 10W				
Q12		000-00023-23	(S) XSTR SRFH1001 NPN STUD MTG VHF PWR 3				
Q14		000-00023-23	(S) XSTR SRFH1001 NPN STUD MTG VHF PWR 3				
R1		030-03680-00	RES FILM 680E 5% 0.25W 7X2.5MM				
R2		030-03680-00	RES FILM 680E 5% 0.25W 7X2.5MM				
R3		030-03680-00	RES FILM 680E 5% 0.25W 7X2.5MM				
R4		030-05100-00	RES FILM 10K 5% 0.25W 7X2.5MM				
R5		030-07100-00	RES FILM 1M 5% 0.25W 7X2.5MM				
RV6		042-05470-09	RES PRESET 50K CERMET 9.5MM SQ FLAT				
R7		030-05100-00	RES FILM 10K 5% 0.25W 7X2.5MM				
RV8		042-05470-09	RES PRESET 50K CERMET 9.5MM SQ FLAT				
R9		030-05470-00	RES FILM 47K 5% 0.25W 7X2.5MM				
RV10		042-05470-09	RES PRESET 50K CERMET 9.5MM SQ FLAT				
R11		030-07100-00	RES FILM 1M 5% 0.25W 7X2.5MM				
R12		030-07100-00	RES FILM 1M 5% 0.25W 7X2.5MM				
R13		030-05100-00	RES FILM 10K 5% 0.25W 7X2.5MM				
R14		030-08100-30	RES FILM 10M 10% 0.25W 7X2.5MM				
R15		030-05100-00	RES FILM 10K 5% 0.25W 7X2.5MM				
RV16		042-05470-09	RES PRESET 50K CERMET 9.5MM SQ FLAT				
R17		030-05470-00	RES FILM 47K 5% 0.25W 7X2.5MM				
R18		030-04470-00	RES FILM 4K7 5% 0.25W 7X2.5MM				
R20		030-03470-00	RES FILM 470E 5% 0.25W 7X2.5MM				
R21		030-02560-00	RES FILM 56E 5% 0.25W 7X2.5MM				
R22		030-05470-00	RES FILM 47K 5% 0.25W 7X2.5MM				
R23		030-04470-00	RES FILM 4K7 5% 0.25W 7X2.5MM				
R25		030-03470-00	RES FILM 470E 5% 0.25W 7X2.5MM				
R26		030-02560-00	RES FILM 56E 5% 0.25W 7X2.5MM				
R30		030-04100-00	RES FILM 1K 5% 0.25W 7X2.5MM				
R31		030-03220-00	RES FILM 220E 5% 0.25W 7X2.5MM				
RV32		044-04200-03	RES PRESET MULTITURN 2K 10T PNL MTG				
R33		030-04470-00	RES FILM 4K7 5% 0.25W 7X2.5MM				
R34		030-04470-00	RES FILM 4K7 5% 0.25W 7X2.5MM				
RV35		042-04220-02	RES PRESET 2K CERMET 9.5MM SQ FLAT TOP A				
R36		030-04470-00	RES FILM 4K7 5% 0.25W 7X2.5MM				
R37		045-04470-01	RES NTC 4K7 20% 5MM DISC				
R38		030-06100-00	RES FILM 100K 5% 0.25W 7X2.5MM				
RV39		042-05100-10	RES PRESET 10K CERMET 9.5MM SQ FLAT				
R40		030-04100-00	RES FILM 1K 5% 0.25W 7X2.5MM				
R41		030-04100-00	RES FILM 1K 5% 0.25W 7X2.5MM				
R47		032-32100-00	RES M/F PWR 10E 5% 1W 10X4MM				
R48		032-32100-00	RES M/F PWR 10E 5% 1W 10X4MM				
R49		032-32470-00	RES M/F PWR 47E 5% 1W 12X4.5MM				
R50		032-31470-00	RES M/F PWR 4E7 5% 1W 12X4.5MM				
R51		032-33180-00	RES M/F PWR 180E 5% 1W 12X4.5MM				
R52		032-32100-00	RES M/F PWR 10E 5% 1W 10X4MM				
R53		032-33180-00	RES M/F PWR 180E 5% 1W 12X4.5MM				
R54		032-31470-00	RES M/F PWR 4E7 5% 1W 12X4.5MM				
R55		032-33330-00	RES M/F PWR 330E 5% 1W 12X4.5MM				
R56		032-31470-01	RES M/F PWR 4E7 5% 2.5W 17X5MM				
R57		032-33820-01	RES M/F PWR 820E 5% 2.5W 17X5MM				
R58		032-33820-01	RES M/F PWR 820E 5% 2.5W 17X5MM				
R65		032-32470-00	RES M/F PWR 47E 5% 1W 12X4.5MM				
R66		032-33330-00	RES M/F PWR 330E 5% 1W 12X4.5MM				
R67		032-31470-00	RES M/F PWR 4E7 5% 1W 12X4.5MM				
R68		032-33330-00	RES M/F PWR 330E 5% 1W 12X4.5MM				
R69		032-33100-02	RES M/F PWR 100E 5% 6W 33X9MM				
R74		032-33100-02	RES M/F PWR 100E 5% 6W 33X9MM				
R75		032-32470-00	RES M/F PWR 47E 5% 1W 12X4.5MM				
R76		032-33330-00	RES M/F PWR 330E 5% 1W 12X4.5MM				
R77		032-31470-00	RES M/F PWR 4E7 5% 1W 12X4.5MM				
R78		032-33330-00	RES M/F PWR 330E 5% 1W 12X4.5MM				
TL3		051-00005-17	COIL TAIT NO 517 DIRNL COUPLER				

T838 Mechanical & Miscellaneous Parts (220-01100-01)

IPN	Description	IPN	Description
012-04150-01	CAP CER F/THRU 1N5 NO LEAD	345-00040-16	SCREW M3X20MM PAN POZI ST BZ
051-00006-02	SOLDER SPRING 1.3MM A4M1877	345-00040-20	SCREW M3*8MM BUTTON SKT HD BLACK ZINC PH
065-00010-08	BEAD FERRITE 4S3 3*0.7*10MM RED	349-00020-32	SCREW TAPTITE M3X8MM PAN POZI BZ
065-00010-11	BEAD FERRITE 4S3 3*1*4MM RED	352-00010-29	NUT M4 NYLOC HEX
065-00010-13	BEAD FERRITE 7D 1.9*0.9*3.8MM STACK POLE	352-00010-35	NUT 8-32 UNC HEX RF PWR XSTR MTG
065-00010-22	BEAD FERRITE BALUN F14 NEOSID	353-00010-10	WASHER M3 FLAT 7MM*0.6MM ST BZ
200-00010-05	WIRE T/C 0.5MM	356-00010-03	TAG SOLDER 3MM LONG M614/3.2
201-00030-01	WIRE #1 T/C WIRE 7/0.2MM PVC BROWN	360-00010-41	BUSH SHORTY BLACK HEYCO B-187-125
201-00030-02	WIRE #1 T/C WIRE 7/0.2MM PVC RED	362-00010-07	GASKET SIL INSULATING TO-220
201-00030-03	WIRE #1 T/C WIRE 7/0.2MM PVC ORANGE	362-00010-13	BUSH INSULATING 1.1MM TOP HAT
201-00030-04	WIRE #1 T/C WIRE 7/0.2MM PVC YELLOW	362-00010-33	GROMMET LED MTG 3MM LO CURRENT LEDS
201-00030-05	WIRE #1 T/C WIRE 7/0.2MM PVC GREEN	365-00011-53	LABEL WHITE RW2365/1 104*37MM SPECIAL AD
201-00030-06	WIRE #1 T/C WIRE 7/0.2MM PVC BLUE	365-00100-03	LABEL BLANK 10.8X30MM S/A METLSD POLYES
201-00030-07	WIRE #1 T/C WIRE 7/0.2MM PVC VIOLET	365-00100-20	LABEL WHITE S/A 28X11MM QUIKSTIK RW718/4
201-00030-09	WIRE #1 T/C WIRE 7/0.2MM PVC WHITE	369-00010-14	TIE CABLE NYLON 100*2.6MM
201-00030-10	WIRE #1 T/C WIRE 7/0.2MM PVC BLACK	399-00010-56	BAG PLASTIC 200*250MM
201-00050-12	CABLE AUTO 152 RED 28/0.3MM PVC	400-00020-07	SLEEVING 2MM SIL RUBBER
201-00050-20	CABLE AUTO 152 BLACK 28/0.3MM PVC	400-00020-09	SLEEVING 3MM SIL RUBBER
206-00010-11	CABLE COAX 50 OHM RG316-U PTFE	410-01081-00	CRTN T800 MODULE KIWI REF22860 PRD 402X
206-00010-12	CABLE COAX 50 OHM RG 178 PTFE MINI	410-01082-00	CRTN 10 T800 KIWI REF24417 423X410X360
220-01100-01	PCB T377 RF PWR AMP CCT A1C543		
240-00010-55	PLUG 15 WAY D RANGE WIRE WRAP PINS PNL M		
240-00100-46	PLUG COAX PNL JACK SUHNER 24 SMC50-2-10C		
240-02010-57	SKT 15WAY DRANGE PNL MNT DS-15AS-BT30 15		
240-02100-06	SKT COAX N TYPE PNL MTG OPEN TERMN		
240-04020-30	SKT 14 PIN DIL IC LO PROF		
240-06010-14	CLAMP LATCHING 15 WAY D RANGE		
240-06010-15	BLOCK LATCHING 15WAY D RANGE		
302-05190-00	BRKT A4M1892 ADJUSTABLE STOP T377 PA		
303-23108-00	COVER SIDE COMPL A2A406 A2M1874 T377 PA		
306-01010-00	FERRULE A4M948 HANDLE FXD EQUIP		
308-01007-00	HANDLE A4M949 FXD EQUIP		
308-13068-00	HSINK A1M2274(1M1869) CASTING COMPL T377		
316-06413-00	PNL FRT COMPL T838 PA A3M2219/6 A3M2219/		
316-85018-00	PIN A4M1397 COAX CONDUCTOR T316 346 377P		
318-01011-00	RAIL A2M1872 BOTTOM T377 PA		
318-01012-00	RAIL A3M1873 TOP T377 PA		
319-01152-00	SHIELD A3M2250 F/THRU MTG T857		
345-00040-06	SCREW M3*8MM PAN POZI ST BZ		
345-00040-09	SCREW M3*6MM CSK POZI TRUNCATED HEAD ST		
345-00040-11	SCREW M3X10MM PAN POZI ST BZ		

T838 Parts List (IPN 220-01100-02)

How To Use This Parts List

The components listed in this parts list are divided into two main types: those with a circuit reference (e.g. C2, D1, R121, etc.) and those without (miscellaneous and mechanical).

Those with a circuit reference are grouped by component type in numerical order. Each component entry comprises three or four columns: the circuit reference, variant number (if applicable), IPN and description. A number in the variant column indicates that this component is fitted only to that variant.

The miscellaneous and mechanical section lists the variant and common parts in IPN order.

Parts List Amendments

R19 This resistor, shown on the PCB layout diagram as going between D7 and ground, is not fitted. The designation R19 has been reallocated to another resistor fitted between the base of Q1 and ground.

R24 This resistor, shown on the PCB layout diagram as going between D9 and ground, is not fitted. The designation R24 has been reallocated as described below.

The following four components were added to reduce RF pick-up into the power alarm circuitry:

R24 The track on the bottom of the PCB between the temperature sense input pad and IC1c pin 9 was cut and bridged with a 1k resistor, R24 (92/11-736).

R27 Fitted between the power control in pad and the blue wire (92/11-736).

R28 Fitted between the reverse power in pad and the black wire (92/11-736).

R29 Fitted between the forward power in pad and the yellow wire (92/11-736).

Ref	Var	IPN	Description	Ref	Var	IPN	Description
C1		022-04470-01	CAP MYLAR 4N7 10% 50V	C53		022-05470-01	CAP MYLAR 47N 10% 50V
C2		011-53220-01	CAP CER AI 220P 10% N750 50/63V	C54		011-53220-01	CAP CER AI 220P 10% N750 50/63V
C3		022-04470-01	CAP MYLAR 4N7 10% 50V	C55		020-08470-07	CAP ELECT RADL 47M 16V 10X13MM HI TEMP
C4		011-53220-01	CAP CER AI 220P 10% N750 50/63V	C56		029-02680-02	CAP MICA 5MM CASE 68P 5%
C5		011-53220-01	CAP CER AI 220P 10% N750 50/63V	CV57		028-02600-01	CAP TRIM 5/60P FILM 3TAG PH 809
C6		011-53220-01	CAP CER AI 220P 10% N750 50/63V	CC58		015-03680-03	CAP CER CHIP 680P 5% NPO 100V HIQ GRH111
C7		022-05100-01	CAP MYLAR 10N 10% 50V	C59		029-02270-02	CAP MICA 5MM CASE 27P 5%
C8		011-54100-01	CAP CER AI 1N 10% T/C B 63V	C65		029-02150-02	CAP MICA 5MM CASE 15P 5%
C9		011-53220-01	CAP CER AI 220P 10% N750 50/63V	C67		011-53150-01	CAP CER AI 150P 5% N150 50/63V
C10		011-53220-01	CAP CER AI 220P 10% N750 50/63V	C68		029-02680-02	CAP MICA 5MM CASE 68P 5%
C11		022-05100-01	CAP MYLAR 10N 10% 50V	C69		029-02680-02	CAP MICA 5MM CASE 68P 5%
C12		011-54100-01	CAP CER AI 1N 10% T/C B 63V	CC70		015-03220-03	CAP CER CHIP 220P 5% NPO 500V HIQ GRH111
C13		011-54100-01	CAP CER AI 1N 10% T/C B 63V	CC71		015-03220-03	CAP CER CHIP 220P 5% NPO 500V HIQ GRH111
C14		022-05100-01	CAP MYLAR 10N 10% 50V	C72		017-15470-01	CAP CER SURFACE BARRIER 47N 20% 50V
C15		011-54100-01	CAP CER AI 1N 10% T/C B 63V	C73		022-05100-01	CAP MYLAR 10N 10% 50V
C16		011-53220-01	CAP CER AI 220P 10% N750 50/63V	C74		011-53220-01	CAP CER AI 220P 10% N750 50/63V
C19		011-53220-01	CAP CER AI 220P 10% N750 50/63V	C75		029-03100-02	CAP MICA 5MM CASE 100P 5%
C20		011-53220-01	CAP CER AI 220P 10% N750 50/63V	CV76		028-02600-01	CAP TRIM 5/60P FILM 3TAG PH 809
CC20A		015-04100-06	CAP CER 1210 CHIP 1NF NPO 200V GRM42	CC77		015-03680-03	CAP CER CHIP 680P 5% NPO 100V HIQ GRH111
C21		020-07470-04	CAP ELECT RADL 4M7 25V 20% 8X13MM SOLID	C78		029-02150-02	CAP MICA 5MM CASE 15P 5%
C22		011-53220-01	CAP CER AI 220P 10% N750 50/63V	C85		029-02150-02	CAP MICA 5MM CASE 15P 5%
C23		022-04470-01	CAP MYLAR 4N7 10% 50V	C87		011-53150-01	CAP CER AI 150P 5% N150 50/63V
C24		011-53220-01	CAP CER AI 220P 10% N750 50/63V	C88		029-02680-02	CAP MICA 5MM CASE 68P 5%
C25		011-53220-01	CAP CER AI 220P 10% N750 50/63V	C89		029-02680-02	CAP MICA 5MM CASE 68P 5%
C26		022-05100-01	CAP MYLAR 10N 10% 50V	CC90		015-03220-03	CAP CER CHIP 220P 5% NPO 500V HIQ GRH111
C27		022-56100-10	CAP MYLAR AI 100N 5% 63V POTTED	CC91		015-03220-03	CAP CER CHIP 220P 5% NPO 500V HIQ GRH111
C28		022-56680-10	CAP MYLAR AI 68N 5% 63V POTTED	C92		017-15470-01	CAP CER SURFACE BARRIER 47N 20% 50V
C29		011-53220-01	CAP CER AI 220P 10% N750 50/63V	C93		022-05100-01	CAP MYLAR 10N 10% 50V
C30		011-53220-01	CAP CER AI 220P 10% N750 50/63V	C94		011-53220-01	CAP CER AI 220P 10% N750 50/63V
C31		011-53220-01	CAP CER AI 220P 10% N750 50/63V	C95		029-03100-02	CAP MICA 5MM CASE 100P 5%
C33		020-07470-04	CAP ELECT RADL 4M7 25V 20% 8X13MM SOLID	CV96		028-02600-01	CAP TRIM 5/60P FILM 3TAG PH 809
C40		029-02220-02	CAP MICA 5MM CASE 22P 5%	CC97		015-03680-03	CAP CER CHIP 680P 5% NPO 100V HIQ GRH111
C41		029-02820-02	CAP MICA 5MM CASE 82P 5%	C98		029-02150-02	CAP MICA 5MM CASE 15P 5%
C42		029-03180-02	CAP MICA 5MM CASE 180P 5%	C99		020-08470-07	CAP ELECT RADL 47M 16V 10X13MM HI TEMP
C43		017-15470-01	CAP CER SURFACE BARRIER 47N 20% 50V	C105		029-02270-02	CAP MICA 5MM CASE 27P 5%
C44		022-05470-01	CAP MYLAR 47N 10% 50V	C106		029-02120-03	CAP MICA 10MM CASE 12P 2%
C45		011-53220-01	CAP CER AI 220P 10% N750 50/63V	C106A		010-01330-01	CAP CER 3P3 +/-0.5P NPO 500V
C46		020-08470-07	CAP ELECT RADL 47M 16V 10X13MM HI TEMP	C107		029-02270-03	CAP MICA 10MM CASE 27P 2%
C47		029-02390-02	CAP MICA 5MM CASE 39P 5%	C107A		010-01470-01	CAP CER 4P7 +/-0.5P NPO 500V
CC49		015-03680-03	CAP CER CHIP 680P 5% NPO 100V HIQ GRH111	C108		029-02330-04	CAP MICA 10MM CASE 33P 2%
C50		029-03100-02	CAP MICA 5MM CASE 100P 5%	C109		029-02270-03	CAP MICA 10MM CASE 27P 2%
C51		029-03220-02	CAP MICA 5MM CASE 220P 5%	C109A		010-01470-01	CAP CER 4P7 +/-0.5P NPO 500V
C52		017-15470-01	CAP CER SURFACE BARRIER 47N 20% 50V	C110		029-02120-03	CAP MICA 10MM CASE 12P 2%

Ref	Var	IPN	Description	Ref	Var	IPN	Description
C110A		010-01330-01	CAP CER 3P3 +/-0.5P NPO 500V	R54		032-31470-00	RES M/F PWR 4E7 5% 1W 12X4.5MM
D1		008-00013-32	(S) LED 3MM RED LO CURRENT NO MTG	R55		032-33330-00	RES M/F PWR 330E 5% 1W 12X4.5MM
D2		008-00013-35	(S) LED 3MM GREEN LO CURRENT NO MTG	R56		032-31470-01	RES M/F PWR 4E7 5% 2.5W 17X5MM
D3		008-00013-32	(S) LED 3MM RED LO CURRENT NO MTG	R57		032-33820-01	RES M/F PWR 820E 5% 2.5W 17X5MM
D4		001-50012-00	(S) DIODE AI 1N4148 SI GEN PURPOSE	R58		032-33820-01	RES M/F PWR 820E 5% 2.5W 17X5MM
D5		001-50012-00	(S) DIODE AI 1N4148 SI GEN PURPOSE	R65		032-32470-00	RES M/F PWR 47E 5% 1W 12X4.5MM
D6		001-00013-45	(S) DIODE SCHOTTKY 1SS97/2	R66		032-33330-00	RES M/F PWR 330E 5% 1W 12X4.5MM
D7		001-00013-45	(S) DIODE SCHOTTKY 1SS97/2	R67		032-31470-00	RES M/F PWR 4E7 5% 1W 12X4.5MM
D8		001-00013-45	(S) DIODE SCHOTTKY 1SS97/2	R68		032-33330-00	RES M/F PWR 330E 5% 1W 12X4.5MM
D9		001-00013-45	(S) DIODE SCHOTTKY 1SS97/2	R69		032-33100-02	RES M/F PWR 100E 5% 6W 33X9MM
IC1		002-00010-60	(S) IC LM339 QUAD COMPTR	R74		032-33100-02	RES M/F PWR 100E 5% 6W 33X9MM
IC2		002-00014-62	(S) IC 317L 100MA REG 3 TERMINAL TO-92	R75		032-32470-00	RES M/F PWR 47E 5% 1W 12X4.5MM
L1		056-00021-01	IND FXD 1.5UH AXIAL	R76		032-33330-00	RES M/F PWR 330E 5% 1W 12X4.5MM
L2		056-00021-01	IND FXD 1.5UH AXIAL	R77		032-31470-00	RES M/F PWR 4E7 5% 1W 12X4.5MM
L5		056-00021-01	IND FXD 1.5UH AXIAL	R78		032-33330-00	RES M/F PWR 330E 5% 1W 12X4.5MM
L10		052-08130-25	COIL A/W 2.5T/3.0MM HOR 0.8MM WIRE	TL3		051-00005-17	COIL TAIT NO 517 DIRNL COUPLER
L11		052-08335-10	COIL A/W 1T/3.5MM SMD 0.8MM WIRE				
L13		065-00010-04	BEAD FERRITE F8 4X2X5MM				
L14		052-08340-50	COIL A/W 5T/4.0MM SMD 0.8MM WIRE				
L19		052-08140-55	COIL A/W 5.5T/4.0MM HOR 0.8MM WIRE				
L21		052-08130-25	COIL A/W 2.5T/3.0MM HOR 0.8MM WIRE				
L25		052-08340-50	COIL A/W 5T/4.0MM SMD 0.8MM WIRE				
L30		065-00010-04	BEAD FERRITE F8 4X2X5MM				
L31		052-08135-65	COIL A/W 6.5T/3.5MM HOR 0.8MM WIRE				
L33		052-08335-20	COIL A/W 2T/3.5MM SMD 0.8MM WIRE				
L34		052-08340-50	COIL A/W 5T/4.0MM SMD 0.8MM WIRE				
L40		052-08340-50	COIL A/W 5T/4.0MM SMD 0.8MM WIRE				
L45		065-00010-04	BEAD FERRITE F8 4X2X5MM				
L46		052-08135-65	COIL A/W 6.5T/3.5MM HOR 0.8MM WIRE				
L48		052-08335-20	COIL A/W 2T/3.5MM SMD 0.8MM WIRE				
L49		052-08340-50	COIL A/W 5T/4.0MM SMD 0.8MM WIRE				
L52		052-08335-50	COIL A/W 5T/3.5MM SMD 0.8MM WIRE				
L53		052-08340-50	COIL A/W 5T/4.0MM SMD 0.8MM WIRE				
L54		052-08340-50	COIL A/W 5T/4.0MM SMD 0.8MM WIRE				
L55		052-08335-50	COIL A/W 5T/3.5MM SMD 0.8MM WIRE				
Q1		000-00011-05	(S) XSTR BC547B NPN AF SML SIG TO92				
Q2		000-00011-05	(S) XSTR BC547B NPN AF SML SIG TO92				
Q3		000-00020-70	(S) XSTR BS170 JFET TO-92 SMALL SIG				
Q4		000-00020-70	(S) XSTR BS170 JFET TO-92 SMALL SIG				
Q5		000-00030-95	(S) XSTR 2N6107 PNP TO-220 AF PWR				
Q5A		000-00010-60	(S) XSTR BC327 PNP AF PWR TO92				
Q8		000-00030-65	(S) XSTR 2N6080 NPN STUD MTG VHF PWR 4W				
Q9		000-00030-53	(S) XSTR 2N5590 NPN STUD MTG VHF PWR 10W				
Q12		000-00023-23	(S) XSTR SRFH1001 NPN STUD MTG VHF PWR 3				
Q14		000-00023-23	(S) XSTR SRFH1001 NPN STUD MTG VHF PWR 3				
R1		030-03680-00	RES FILM 680E 5% 0.25W 7X2.5MM				
R2		030-03680-00	RES FILM 680E 5% 0.25W 7X2.5MM				
R3		030-03680-00	RES FILM 680E 5% 0.25W 7X2.5MM				
R4		030-05100-00	RES FILM 10K 5% 0.25W 7X2.5MM				
R5		030-07100-00	RES FILM 1M 5% 0.25W 7X2.5MM				
RV6		042-05470-09	RES PRESET 50K CERMET 9.5MM SQ FLAT				
R7		030-05100-00	RES FILM 10K 5% 0.25W 7X2.5MM				
RV8		042-05470-09	RES PRESET 50K CERMET 9.5MM SQ FLAT				
R9		030-05470-00	RES FILM 47K 5% 0.25W 7X2.5MM				
RV10		042-05470-09	RES PRESET 50K CERMET 9.5MM SQ FLAT				
R11		030-07100-00	RES FILM 1M 5% 0.25W 7X2.5MM				
R12		030-07100-00	RES FILM 1M 5% 0.25W 7X2.5MM				
R13		030-05100-00	RES FILM 10K 5% 0.25W 7X2.5MM				
R14		030-08100-30	RES FILM 10M 10% 0.25W 7X2.5MM				
R15		030-05100-00	RES FILM 10K 5% 0.25W 7X2.5MM				
RV16		042-05470-09	RES PRESET 50K CERMET 9.5MM SQ FLAT				
R17		030-05470-00	RES FILM 47K 5% 0.25W 7X2.5MM				
R18		030-04470-00	RES FILM 4K7 5% 0.25W 7X2.5MM				
R19		030-54470-20	RES FILM AI 4K7 5% 0.4W 4X1.6MM				
R20		030-03470-00	RES FILM 470E 5% 0.25W 7X2.5MM				
R21		030-02560-00	RES FILM 56E 5% 0.25W 7X2.5MM				
R22		030-05470-00	RES FILM 47K 5% 0.25W 7X2.5MM				
R23		030-04470-00	RES FILM 4K7 5% 0.25W 7X2.5MM				
R24		030-54100-20	RES FILM AI 1K 5% 0.4W 4X1.6MM				
R25		030-03470-00	RES FILM 470E 5% 0.25W 7X2.5MM				
R26		030-02560-00	RES FILM 56E 5% 0.25W 7X2.5MM				
R27		030-04100-00	RES FILM 1K 5% 0.25W 7X2.5MM				
R28		030-04100-00	RES FILM 1K 5% 0.25W 7X2.5MM				
R29		030-04100-00	RES FILM 1K 5% 0.25W 7X2.5MM				
R30		030-04100-00	RES FILM 1K 5% 0.25W 7X2.5MM				
R31		030-03220-00	RES FILM 220E 5% 0.25W 7X2.5MM				
RV32		044-04200-03	RES PRESET MULTITURN 2K 10T PNL MTG				
R33		030-04470-00	RES FILM 4K7 5% 0.25W 7X2.5MM				
R34		030-04470-00	RES FILM 4K7 5% 0.25W 7X2.5MM				
RV35		042-04220-02	RES PRESET 2K CERMET 9.5MM SQ FLAT TOP A				
R36		030-04470-00	RES FILM 4K7 5% 0.25W 7X2.5MM				
R37		045-04470-01	RES NTC 4K7 20% 5MM DISC				
R38		030-06100-00	RES FILM 100K 5% 0.25W 7X2.5MM				
RV39		042-05100-10	RES PRESET 10K CERMET 9.5MM SQ FLAT				
R40		030-04100-00	RES FILM 1K 5% 0.25W 7X2.5MM				
R41		030-04100-00	RES FILM 1K 5% 0.25W 7X2.5MM				
R47		032-32100-00	RES M/F PWR 10E 5% 1W 10X4MM				
R48		032-32100-00	RES M/F PWR 10E 5% 1W 10X4MM				
R49		032-32470-00	RES M/F PWR 47E 5% 1W 12X4.5MM				
R50		032-31470-00	RES M/F PWR 4E7 5% 1W 12X4.5MM				
R51		032-33180-00	RES M/F PWR 180E 5% 1W 12X4.5MM				
R52		032-32100-00	RES M/F PWR 10E 5% 1W 10X4MM				
R53		032-33180-00	RES M/F PWR 180E 5% 1W 12X4.5MM				

T838 Mechanical & Miscellaneous Parts (220-01100-02)

IPN	Description	IPN	Description
012-04150-01	CAP CER F/THRU 1N5 NO LEAD	345-00040-16	SCREW M3X20MM PAN POZI ST BZ
051-00006-02	SOLDER SPRING 1.3MM A4M1877	345-00040-20	SCREW M3*8MM BUTTON SKT HD BLACK ZINC PH
065-00010-08	BEAD FERRITE 4S3 3*0.7*10MM RED	349-00020-32	SCREW TAPTITE M3X8MM PAN POZI BZ
065-00010-11	BEAD FERRITE 4S3 3*1*4MM RED	352-00010-29	NUT M4 NYLOC HEX
065-00010-13	BEAD FERRITE 7D 1.9*0.9*3.8MM STACK POLE	352-00010-35	NUT 8-32 UNC HEX RF PWR XSTR MTG
065-00010-22	BEAD FERRITE BALUN F14 NEOSID	353-00010-10	WASHER M3 FLAT 7MM*0.6MM ST BZ
200-00010-05	WIRE T/C 0.5MM	356-00010-03	TAG SOLDER 3MM LONG M614/3.2
201-00030-01	WIRE #1 T/C WIRE 7/0.2MM PVC BROWN	360-00010-41	BUSH SHORTY BLACK HEYCO B-187-125
201-00030-02	WIRE #1 T/C WIRE 7/0.2MM PVC RED	362-00010-07	GASKET SIL INSULATING TO-220
201-00030-03	WIRE #1 T/C WIRE 7/0.2MM PVC ORANGE	362-00010-13	BUSH INSULATING 1.1MM TOP HAT
201-00030-04	WIRE #1 T/C WIRE 7/0.2MM PVC YELLOW	362-00010-33	GROMMET LED MTG 3MM LO CURRENT LEDS
201-00030-05	WIRE #1 T/C WIRE 7/0.2MM PVC GREEN	365-00011-53	LABEL WHITE RW2365/1 104*37MM SPECIAL AD
201-00030-06	WIRE #1 T/C WIRE 7/0.2MM PVC BLUE	365-00100-03	LABEL BLANK 10.8X30MM S/A METLSD POLYES
201-00030-07	WIRE #1 T/C WIRE 7/0.2MM PVC VIOLET	365-00100-20	LABEL WHITE S/A 28X11MM QUIKSTIK RW718/4
201-00030-09	WIRE #1 T/C WIRE 7/0.2MM PVC WHITE	369-00010-14	TIE CABLE NYLON 100*2.6MM
201-00030-10	WIRE #1 T/C WIRE 7/0.2MM PVC BLACK	399-00010-56	BAG PLASTIC 200*250MM
201-00050-12	CABLE AUTO 152 RED 28/0.3MM PVC	400-00020-07	SLEEVING 2MM SIL RUBBER
201-00050-20	CABLE AUTO 152 BLACK 28/0.3MM PVC	400-00020-09	SLEEVING 3MM SIL RUBBER
206-00010-11	CABLE COAX 50 OHM RG316-U PTFE	410-01081-00	CRTN T800 MODULE KIWI REF22860 PRD 402X
206-00010-12	CABLE COAX 50 OHM RG 178 PTFE MINI	410-01082-00	CRTN 10 T800 KIWI REF24417 423X410X360
220-01100-02	PCB T377 RF PWR AMP CCT A1C543		
240-00010-55	PLUG 15 WAY D RANGE WIRE WRAP PINS PNL M		
240-00100-46	PLUG COAX PNL JACK SUHNER 24 SMC50-2-10C		
240-02010-54	SKT 15WAY DRANGE PNL MTG 125 DEG C		
240-02100-06	SKT COAX N TYPE PNL MTG OPEN TERMN		
240-04020-30	SKT 14 PIN DIL IC LO PROF		
240-06010-14	CLAMP LATCHING 15 WAY D RANGE		
240-06010-15	BLOCK LATCHING 15WAY D RANGE		
302-05190-00	BRKT A4M1892 ADJUSTABLE STOP T377 PA		
303-23108-00	COVER SIDE COMPL A2A406 A2M1874 T377 PA		
306-01010-00	FERRULE A4M948 HANDLE FXD EQUIP		
308-01007-00	HANDLE A4M949 FXD EQUIP		
308-13068-00	HSINK A1M2274(1M1869) CASTING COMPL T377		
316-06413-00	PNL FRT COMPL T838 PA A3M2219/6 A3M2219/		
316-85018-00	PIN A4M1397 COAX CONDUCTOR T316 346 377P		
318-01011-00	RAIL A2M1872 BOTTOM T377 PA		
318-01012-00	RAIL A3M1873 TOP T377 PA		
319-01152-00	SHIELD A3M2250 F/THRU MTG T857		
345-00040-06	SCREW M3*8MM PAN POZI ST BZ		
345-00040-09	SCREW M3*6MM CSK POZI TRUNCATED HEAD ST		
345-00040-11	SCREW M3X10MM PAN POZI ST BZ		

T838 Parts List (IPN 220-01100-03)

How To Use This Parts List

The components listed in this parts list are divided into two main types: those with a circuit reference (e.g. C2, D1, R121, etc) and those without (miscellaneous and mechanical).

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The miscellaneous and mechanical section lists the variant and common parts in IPN order.

Parts List Amendments

C18 Added between the 7V end of R36 and ground to de-couple the 7V supply to prevent RF pick-up (94/12-594).
 CC20A Changed from 1n 0805 chip (015-24100-08) to 1n GRM42-2 to prevent cracking during soldering (93/10-526).

Ref	Var	IPN	Description	Ref	Var	IPN	Description
C1		022-04470-01	CAP MYLAR 4N7 10% 50V	C65		029-02150-02	CAP MICA 5MM CASE 15P 5%
C2		011-53220-01	CAP CER AI 220P 10% N750 50/63V	C67		011-53150-01	CAP CER AI 150P 5% N150 50/63V
C3		022-04470-01	CAP MYLAR 4N7 10% 50V	C68		029-02680-02	CAP MICA 5MM CASE 68P 5%
C4		011-53220-01	CAP CER AI 220P 10% N750 50/63V	C69		029-02680-02	CAP MICA 5MM CASE 68P 5%
C5		011-53220-01	CAP CER AI 220P 10% N750 50/63V	CC70		015-03220-03	CAP CER CHIP 220P 5% NPO 500V HIQ GRH111
C6		011-53220-01	CAP CER AI 220P 10% N750 50/63V	CC71		015-03220-03	CAP CER CHIP 220P 5% NPO 500V HIQ GRH111
C7		022-05100-01	CAP MYLAR 10N 10% 50V	C72		017-15470-01	CAP CER SURFACE BARRIER 47N 20% 50V
C8		011-54100-01	CAP CER AI 1N 10% T/C B 63V	C73		022-05100-01	CAP MYLAR 10N 10% 50V
C9		011-53220-01	CAP CER AI 220P 10% N750 50/63V	C74		011-53220-01	CAP CER AI 220P 10% N750 50/63V
C10		011-53220-01	CAP CER AI 220P 10% N750 50/63V	C75		029-03100-02	CAP MICA 5MM CASE 100P 5%
C11		022-05100-01	CAP MYLAR 10N 10% 50V	CV76		028-02600-01	CAP TRIM 5/60P FILM 3TAG PH 809
C12		011-54100-01	CAP CER AI 1N 10% T/C B 63V	CC77		015-03680-03	CAP CER CHIP 680P 5% NPO 100V HIQ GRH111
C13		011-54100-01	CAP CER AI 1N 10% T/C B 63V	C78		029-02150-02	CAP MICA 5MM CASE 15P 5%
C14		022-05100-01	CAP MYLAR 10N 10% 50V	C85		029-02150-02	CAP MICA 5MM CASE 15P 5%
C15		011-54100-01	CAP CER AI 1N 10% T/C B 63V	C87		011-53150-01	CAP CER AI 150P 5% N150 50/63V
C16		011-53220-01	CAP CER AI 220P 10% N750 50/63V	C88		029-02680-02	CAP MICA 5MM CASE 68P 5%
C18		020-07470-04	CAP ELECT RADL 4M7 25V 20% 8X13MM SOLID	C89		029-02680-02	CAP MICA 5MM CASE 68P 5%
C19		011-53220-01	CAP CER AI 220P 10% N750 50/63V	CC90		015-03220-03	CAP CER CHIP 220P 5% NPO 500V HIQ GRH111
C20		011-53220-01	CAP CER AI 220P 10% N750 50/63V	CC91		015-03220-03	CAP CER CHIP 220P 5% NPO 500V HIQ GRH111
CC20A		015-04100-06	CAP CER 1210 CHIP 1NF NPO 200V GRM42	C92		017-15470-01	CAP CER SURFACE BARRIER 47N 20% 50V
C21		020-07470-04	CAP ELECT RADL 4M7 25V 20% 8X13MM SOLID	C93		022-05100-01	CAP MYLAR 10N 10% 50V
C22		011-53220-01	CAP CER AI 220P 10% N750 50/63V	C94		011-53220-01	CAP CER AI 220P 10% N750 50/63V
C23		022-04470-01	CAP MYLAR 4N7 10% 50V	C95		029-03100-02	CAP MICA 5MM CASE 100P 5%
C24		011-53220-01	CAP CER AI 220P 10% N750 50/63V	CV96		028-02600-01	CAP TRIM 5/60P FILM 3TAG PH 809
C25		011-53220-01	CAP CER AI 220P 10% N750 50/63V	CC97		015-03680-03	CAP CER CHIP 680P 5% NPO 100V HIQ GRH111
C26		022-05100-01	CAP MYLAR 10N 10% 50V	C98		029-02150-02	CAP MICA 5MM CASE 15P 5%
C27		022-56100-10	CAP MYLAR AI 100N 5% 63V POTTED	C99		020-08470-07	CAP ELECT RADL 47M 16V 8X11.5MM HI TEMP
C28		022-56680-10	CAP MYLAR AI 68N 5% 63V POTTED	C105		029-02270-02	CAP MICA 5MM CASE 27P 5%
C29		011-53220-01	CAP CER AI 220P 10% N750 50/63V	C106		029-02120-03	CAP MICA 10MM CASE 12P 2%
C30		011-53220-01	CAP CER AI 220P 10% N750 50/63V	C106A		010-01330-01	CAP CER 3P3 +/-0.5P NPO 500V
C31		011-53220-01	CAP CER AI 220P 10% N750 50/63V	C107		029-02270-03	CAP MICA 10MM CASE 27P 2%
C33		020-07470-04	CAP ELECT RADL 4M7 25V 20% 8X13MM SOLID	C107A		010-01470-01	CAP CER 4P7+/-0.5P NPO 500V
C40		029-02220-02	CAP MICA 5MM CASE 22P 5%	C108		029-02330-04	CAP MICA 10MM CASE 33P 2%
C41		029-02820-02	CAP MICA 5MM CASE 82P 5%	C109		029-02270-03	CAP MICA 10MM CASE 27P 2%
C42		029-03180-02	CAP MICA 5MM CASE 180P 5%	C109A		010-01470-01	CAP CER 4P7+/-0.5P NPO 500V
C43		017-15470-01	CAP CER SURFACE BARRIER 47N 20% 50V	C110		029-02120-03	CAP MICA 10MM CASE 12P 2%
C44		022-05470-01	CAP MYLAR 47N 10% 50V	C110A		010-01330-01	CAP CER 3P3 +/-0.5P NPO 500V
C45		011-53220-01	CAP CER AI 220P 10% N750 50/63V	D1		008-00013-32	(S) LED 3MM RED LO CURRENT NO MTG
C46		020-08470-07	CAP ELECT RADL 47M 16V 8X11.5MM HI TEMP	D2		008-00013-35	(S) LED 3MM GREEN LO CURRENT NO MTG
C47		029-02390-02	CAP MICA 5MM CASE 39P 5%	D3		008-00013-32	(S) LED 3MM RED LO CURRENT NO MTG
CC49		015-03680-03	CAP CER CHIP 680P 5% NPO 100V HIQ GRH111	D4		001-50012-00	(S) DIODE AI 1N4148 SI GEN PURPOSE
C50		029-03100-02	CAP MICA 5MM CASE 100P 5%	D5		001-50012-00	(S) DIODE AI 1N4148 SI GEN PURPOSE
C51		029-03220-02	CAP MICA 5MM CASE 220P 5%	D6		001-00013-45	(S) DIODE SCHOTTKY 1SS97/2
C52		017-15470-01	CAP CER SURFACE BARRIER 47N 20% 50V	D7		001-00013-45	(S) DIODE SCHOTTKY 1SS97/2
C53		022-05470-01	CAP MYLAR 47N 10% 50V	D8		001-00013-45	(S) DIODE SCHOTTKY 1SS97/2
C54		011-53220-01	CAP CER AI 220P 10% N750 50/63V	D9		001-00013-45	(S) DIODE SCHOTTKY 1SS97/2
C55		020-08470-07	CAP ELECT RADL 47M 16V 8X11.5MM HI TEMP	IC1		002-00010-60	(S) IC LM339 QUAD COMPTR
C56		029-02680-02	CAP MICA 5MM CASE 68P 5%	IC2		002-00014-62	(S) IC 317L 100MA REG 3 TERMINAL TO-92
CV57		028-02600-01	CAP TRIM 5/60P FILM 3TAG PH 809				
CC58		015-03680-03	CAP CER CHIP 680P 5% NPO 100V HIQ GRH111				
C59		029-02270-02	CAP MICA 5MM CASE 27P 5%				

Ref	Var	IPN	Description	Ref	Var	IPN	Description
L1		056-00021-01	IND FXD 1.5UH AXIAL	TL3		051-00005-17	COIL TAIT NO 517 DIRNL COUPLER
L2		056-00021-01	IND FXD 1.5UH AXIAL				
L5		056-00021-01	IND FXD 1.5UH AXIAL				
L10		052-08130-25	COIL A/W 2.5T/3.0MM HOR 0.8MM WIRE				
L11		052-08335-10	COIL A/W 1T/3.5MM SMD 0.8MM WIRE				
L13		065-00010-04	BEAD FERRITE F8 4X2X5MM				
L14		052-08340-50	COIL A/W 5T/4.0MM SMD 0.8MM WIRE				
L19		052-08140-55	COIL A/W 5.5T/4.0MM HOR 0.8MM WIRE				
L21		052-08130-25	COIL A/W 2.5T/3.0MM HOR 0.8MM WIRE				
L25		052-08340-50	COIL A/W 5T/4.0MM SMD 0.8MM WIRE				
L30		065-00010-04	BEAD FERRITE F8 4X2X5MM				
L31		052-08135-65	COIL A/W 6.5T/3.5MM HOR 0.8MM WIRE				
L33		052-08335-20	COIL A/W 2T/3.5MM SMD 0.8MM WIRE				
L34		052-08340-50	COIL A/W 5T/4.0MM SMD 0.8MM WIRE				
L40		052-08340-50	COIL A/W 5T/4.0MM SMD 0.8MM WIRE				
L45		065-00010-04	BEAD FERRITE F8 4X2X5MM				
L46		052-08135-65	COIL A/W 6.5T/3.5MM HOR 0.8MM WIRE				
L48		052-08335-20	COIL A/W 2T/3.5MM SMD 0.8MM WIRE				
L49		052-08340-50	COIL A/W 5T/4.0MM SMD 0.8MM WIRE				
L52		052-08335-50	COIL A/W 5T/3.5MM SMD 0.8MM WIRE				
L53		052-08340-50	COIL A/W 5T/4.0MM SMD 0.8MM WIRE				
L54		052-08340-50	COIL A/W 5T/4.0MM SMD 0.8MM WIRE				
L55		052-08335-50	COIL A/W 5T/3.5MM SMD 0.8MM WIRE				
Q1		000-00011-05	(S) XSTR BC547B NPN AF SML SIG TO92				
Q2		000-00011-05	(S) XSTR BC547B NPN AF SML SIG TO92				
Q3		000-00020-70	(S) XSTR BS170 JFET TO-92 SMALL SIG				
Q4		000-00020-70	(S) XSTR BS170 JFET TO-92 SMALL SIG				
Q5		000-00030-95	(S) XSTR 2N6107 PNP TO-220 AF PWR				
Q5A		000-00010-60	(S) XSTR BC327 PNP AF PWR TO92				
Q8		000-00030-65	(S) XSTR 2N6080 NPN STUD MTG VHF PWR 4W				
Q9		000-00030-53	(S) XSTR 2N5590 NPN STUD MTG VHF PWR 10W				
Q12		000-00023-23	(S) XSTR SRFH1001 NPN STUD MTG VHF PWR 30				
Q14		000-00023-23	(S) XSTR SRFH1001 NPN STUD MTG VHF PWR 30				
R1		030-03680-00	RES FILM 680E 5% 0.25W 7X2.5MM				
R2		030-03680-00	RES FILM 680E 5% 0.25W 7X2.5MM				
R3		030-03680-00	RES FILM 680E 5% 0.25W 7X2.5MM				
R4		030-05100-00	RES FILM 10K 5% 0.25W 7X2.5MM				
R5		030-07100-00	RES FILM 1M 5% 0.25W 7X2.5MM				
RV6		042-05470-09	RES PRESET 50K CERMET 9.5MM SQ FLAT				
R7		030-05100-00	RES FILM 10K 5% 0.25W 7X2.5MM				
RV8		042-05470-09	RES PRESET 50K CERMET 9.5MM SQ FLAT				
R9		030-05470-00	RES FILM 47K 5% 0.25W 7X2.5MM				
RV10		042-05470-09	RES PRESET 50K CERMET 9.5MM SQ FLAT				
R11		030-07100-00	RES FILM 1M 5% 0.25W 7X2.5MM				
R12		030-07100-00	RES FILM 1M 5% 0.25W 7X2.5MM				
R13		030-05100-00	RES FILM 10K 5% 0.25W 7X2.5MM				
R14		030-08100-30	RES FILM 10M 10% 0.25W 7X2.5MM				
R15		030-05100-00	RES FILM 10K 5% 0.25W 7X2.5MM				
RV16		042-05470-09	RES PRESET 50K CERMET 9.5MM SQ FLAT				
R17		030-05470-00	RES FILM 47K 5% 0.25W 7X2.5MM				
R18		030-04470-00	RES FILM 4K7 5% 0.25W 7X2.5MM				
R19		030-54470-20	RES FILM AI 4K7 5% 0.4W 4X1.6MM				
R20		030-03470-00	RES FILM 470E 5% 0.25W 7X2.5MM				
R21		030-02560-00	RES FILM 56E 5% 0.25W 7X2.5MM				
R22		030-05470-00	RES FILM 47K 5% 0.25W 7X2.5MM				
R23		030-04470-00	RES FILM 4K7 5% 0.25W 7X2.5MM				
R24		030-54100-20	RES FILM AI 1K 5% 0.4W 4X1.6MM				
R25		030-03470-00	RES FILM 470E 5% 0.25W 7X2.5MM				
R26		030-02560-00	RES FILM 56E 5% 0.25W 7X2.5MM				
R27		030-04100-00	RES FILM 1K 5% 0.25W 7X2.5MM				
R28		030-04100-00	RES FILM 1K 5% 0.25W 7X2.5MM				
R29		030-04100-00	RES FILM 1K 5% 0.25W 7X2.5MM				
R30		030-04100-00	RES FILM 1K 5% 0.25W 7X2.5MM				
R31		030-03220-00	RES FILM 220E 5% 0.25W 7X2.5MM				
RV32		044-04200-03	RES PRESET MULTITURN 2K 10T PNL MTG				
R33		030-04470-00	RES FILM 4K7 5% 0.25W 7X2.5MM				
R34		030-04470-00	RES FILM 4K7 5% 0.25W 7X2.5MM				
RV35		042-04220-02	RES PRESET 2K CERMET 9.5MM SQ FLAT TOP A				
R36		030-04470-00	RES FILM 4K7 5% 0.25W 7X2.5MM				
R37		045-04470-01	RES NTC 4K7 5% 5MM DISC				
R38		030-06100-00	RES FILM 100K 5% 0.25W 7X2.5MM				
RV39		042-05100-10	RES PRESET 10K CERMET 9.5MM SQ FLAT				
R40		030-04100-00	RES FILM 1K 5% 0.25W 7X2.5MM				
R41		030-04100-00	RES FILM 1K 5% 0.25W 7X2.5MM				
R47		032-32100-00	RES M/F PWR 10E 5% 1W 10X4MM				
R48		032-32100-00	RES M/F PWR 10E 5% 1W 10X4MM				
R49		032-32470-00	RES M/F PWR 47E 5% 1W 12X4.5MM				
R50		032-31470-00	RES M/F PWR 4E7 5% 1W 12X4.5MM				
R51		032-33180-00	RES M/F PWR 180E 5% 1W 12X4.5MM				
R52		032-32100-00	RES M/F PWR 10E 5% 1W 10X4MM				
R53		032-33180-00	RES M/F PWR 180E 5% 1W 12X4.5MM				
R54		032-31470-00	RES M/F PWR 4E7 5% 1W 12X4.5MM				
R55		032-33330-00	RES M/F PWR 330E 5% 1W 12X4.5MM				
R56		032-31470-01	RES M/F PWR 4E7 5% 2.5W 17X5MM				
R57		032-33820-01	RES M/F PWR 820E 5% 2.5W 17X5MM				
R58		032-33820-01	RES M/F PWR 820E 5% 2.5W 17X5MM				
R65		032-32470-00	RES M/F PWR 47E 5% 1W 12X4.5MM				
R66		032-33330-00	RES M/F PWR 330E 5% 1W 12X4.5MM				
R67		032-31470-00	RES M/F PWR 4E7 5% 1W 12X4.5MM				
R68		032-33330-00	RES M/F PWR 330E 5% 1W 12X4.5MM				
R69		032-33100-02	RES M/F PWR 100E 5% 6W 33X9MM				
R74		032-33100-02	RES M/F PWR 100E 5% 6W 33X9MM				
R75		032-32470-00	RES M/F PWR 47E 5% 1W 12X4.5MM				
R76		032-33330-00	RES M/F PWR 330E 5% 1W 12X4.5MM				
R77		032-31470-00	RES M/F PWR 4E7 5% 1W 12X4.5MM				
R78		032-33330-00	RES M/F PWR 330E 5% 1W 12X4.5MM				

T838 Mechanical & Miscellaneous Parts (220-01100-03)

IPN	Description	IPN	Description
012-04150-01	CAP CER F/THRU 1N5 NO LEAD (FT1-FT15)	318-01011-00	RAIL A2M1872 BOTTOM T377 PA
051-00006-02	SOLDER SPRING 1.3MM A4M1877	318-01012-00	RAIL A3M1873 TOP T377 PA
051-00006-03	LEAD F/THRU 0.7MM TCW A4M2230	319-01152-00	SHIELD A3M2250 F/THRU MTG T857
065-00010-08	BEAD FERRITE 4S3 3*0.7*10MM RED L6, L12, L17, L28, L43.	319-01175-00	(L) SHIELD T377/T838
065-00010-11	BEAD FERRITE 4S3 3*1*4MM RED L18, L29, L44.	319-01176-00	(L) SHIELD WALL T377/T838
065-00010-13	BEAD FERRITE 7D 1.9*0.9*3.8MM STACK POLE	319-01177-00	(L) SHIELD COVER T377/T838
065-00010-22	BEAD FERRITE BALUN F14 NEOSID L26, L41, Refer A4 P180/10.	345-00040-06	SCREW M3*8MM PAN POZI ST BZ frnt pnl to rack. pack with each PA
200-00010-05	WIRE T/C 0.5MM	345-00040-09	SCREW M3*6MM CSK POZI TRUNCATED HEAD ST BZ top/bottom rails. pack with each PA.
201-00030-01	WIRE #1 T/C WIRE 7/0.2MM PVC BROWN	345-00040-16	SCREW M3X20MM PAN POZI ST BZ
201-00030-02	WIRE #1 T/C WIRE 7/0.2MM PVC RED	345-00040-20	SCREW M3*8MM BUTTON SKT HD BLACK ZINC PHOS
201-00030-03	WIRE #1 T/C WIRE 7/0.2MM PVC ORANGE	349-00020-07	(L) SCREW 4-40 X 5/16 PAN POZI TAPTITE BLACK MTG PCB to heatsink x 8. Coax to SKT x 4. Q5 mtg x 1. cover x18. brkt stop x2.
201-00030-04	WIRE #1 T/C WIRE 7/0.2MM PVC YELLOW	352-00010-29	NUT M4 NYLOC HEX
201-00030-05	WIRE #1 T/C WIRE 7/0.2MM PVC GREEN	352-00010-35	NUT 8-32 UNC HEX RF PWR XSTR MTG For XSTR'S - SD6080, SRFH1001 x 2, 2N5590.
201-00030-06	WIRE #1 T/C WIRE 7/0.2MM PVC BLUE	353-00010-10	WASHER M3 FLAT 7MM*0.6MM ST BZ Q5 mtg
201-00030-07	WIRE #1 T/C WIRE 7/0.2MM PVC VIOLET	356-00010-03	TAG SOLDER 3MM LONG M614/3.2 To help hold loom to PCB.
201-00030-09	WIRE #1 T/C WIRE 7/0.2MM PVC WHITE	360-00010-41	BUSH SHORTY BLACK HEYCO B-187-125
201-00030-10	WIRE #1 T/C WIRE 7/0.2MM PVC BLACK	362-00010-07	GASKET SIL INSULATING TO-220 Q5 mtg
201-00050-12	CABLE AUTO 152 RED 28/0.3MM PVC 1x 260mm pin 1 & 2 - 13.8v 1x 200mm pin 9 & 10 - 13.8v	362-00010-13	BUSH INSULATING 1.1MM TOP HAT Q5 mtg
201-00050-20	CABLE AUTO 152 BLACK 28/0.3MM PVC 1x 60mm pin 7,8,14,15 - (pad nearest to 15way plug)	362-00010-33	GROMMET LED MTG 3MM LO CURRENT LEDS
206-00010-11	CABLE COAX 50 OHM RG316-U PTFE 1x 150mm Strip 2.5/ 6 /11 frnt pnl rf in	365-00011-53	LABEL WHITE RW2365/1 104*37MM SPECIAL ADHSV
206-00010-12	CABLE COAX 50 OHM RG 178 PTFE MINI 4x 60mm strip 3/6/9 - 3/6/9 Twin beads.	365-00100-20	LABEL WHITE S/A 28X11MM QUIKSTIK RW718/4 use label ref #414
220-01100-03	PCB T377 RF PWR AMP CCT A1C543	365-01391-01	(L)LABEL BLNK 30*10.8MM TAMPERMARK VOID MATT Australia DOTC cert No: 2070418 FCC RULE 47 CFR, PRODUCT FOR USA
240-00010-55	PLUG 15 WAY D RANGE WIRE WRAP PINS PNL MTG	369-00010-14	TIE CABLE NYLON 100*2.6MM Looming tie.
240-00100-46	PLUG COAX PNL JACK SUHNER 24 SMC50-2-10C	399-00010-56	BAG PLASTIC 200*250MM packing guides & rails.
240-02010-54	SKT 15WAY DRANGE PNL MTG 125 DEG C	400-00020-07	SLEEVING 2MM SIL RUBBER FOR LEDS & SOLDER TAGS
240-02100-06	SKT COAX N TYPE PNL MTG OPEN TERMN	400-00020-09	SLEEVING 3MM SIL RUBBER DRANGE PINS
240-04020-30	SKT 14 PIN DIL IC LO PROF IC1 Under IC LM 339.	410-01081-00	CRTN T800 MODULE KIWI REF22860 PRTD 402X192X6
240-06010-14	CLAMP LATCHING 15 WAY D RANGE	410-01082-00	CRTN 10 T800 KIWI REF24417 423X410X360
240-06010-15	BLOCK LATCHING 15WAY D RANGE		
302-05190-00	BRKT A4M1892 ADJUSTABLE STOP T377 PA		
303-23108-00	COVER SIDE COMPL A2A406 A2M1874 T377 PA		
306-01010-00	FERRULE A4M948 HANDLE FXD EQUIP		
308-01007-00	HANDLE A4M949 FXD EQUIP		
308-13068-00	HSINK A1M2274(1M1869) CASTING COMPL T377 PA		
316-06413-00	PNL FRT COMPL T838 PA A3M2219/6 A3M2219/1		
316-85018-00	PIN A4M1397 COAX CONDUCTOR T316 346 377PA 341 MTG to SKT coax 'N' type.		

