TEAC

Service Manual

CTM519

51cm Colour Television

CONTROLLED

AUTHORITY ..... DATE 1/6/98

1

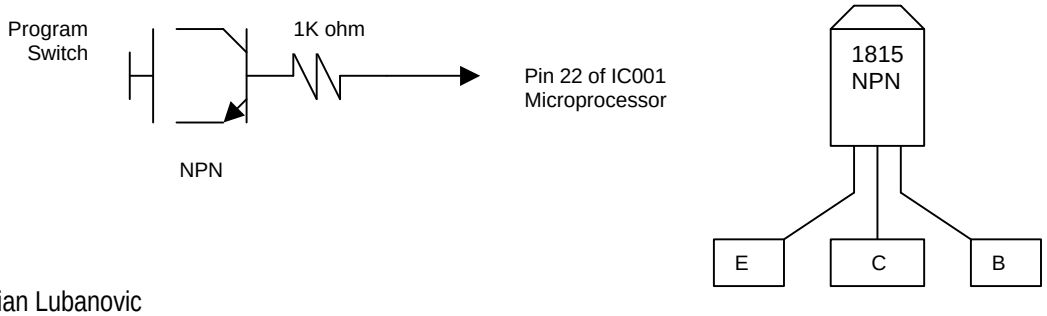
Effective: May 98

CTM519SERV

MODEL:	CT-M519
MODIFICATION:	Bypass 'standby' (ie. Apply power – set turns on)

Some customers have requested to have their CT-M519 switch on automatically upon power being applied.

(The set will no longer go standby first)



Fabian Lubanovic
TEAC Australia Pty Ltd.

1 Power Supply

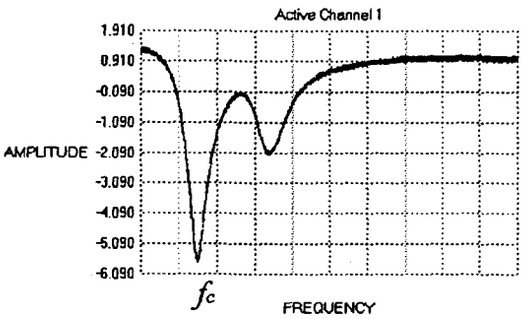
1.1 The voltage of the B+ terminal is 112V±0.2V, this can be adjusted by tuning VR801.

1.2 The voltage at pin 42 of the CPU should be 5V.

2 I.F. Amplifier

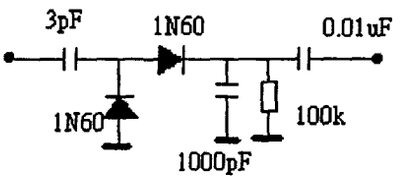
2.1 Adjustment of the attenuation of adjacent channel frequency:

Apply a sweep signal to the IF input. Observe the waveform at the Collector of Q101, using a detector with 3pF input capacitance. By tuning IF T101, minimize the signal level at f_c, refer to table 2.1. Found the IF frequency, f_p of the tuner in its specification and then according to table 2.1, adjust f_c to the correct value



f_p /MHz	f_c / MHz
38.9	31.9
38	31.0
39.5	32.5
45.75	40.75

Table 2.1



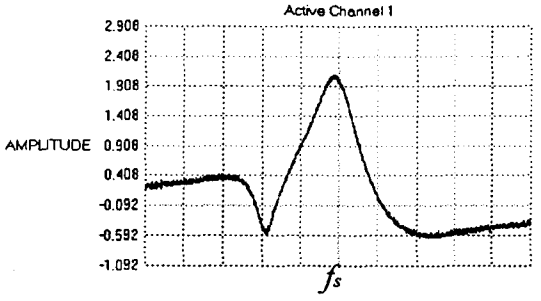
The detector circuit

2.2 Adjustment of sound IF:

Apply a sweep signal to the IF input. Observe the waveform at pin 11 of IC201, using a detector with 3pF input capacitor (the same as above). By tuning IF T102, adjust the signal level at f_s to maximum value, where f_s can be calculated by the following formula.

$$f_s = f_p - f_a$$

f_a is the audio carrier frequency and it can be found in table 2.2



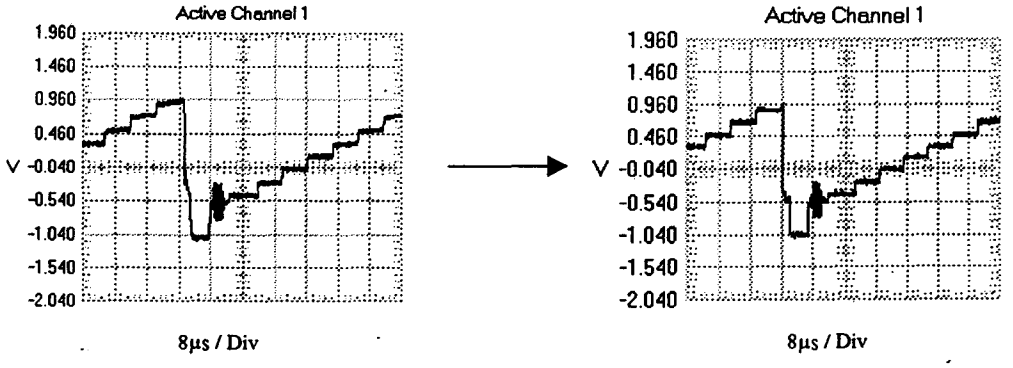
System	f_a / MHz
B/G	5.5
D/K	6.5
I	6
M	4.5

Table 2.2

Note: if the TV had two or more sound systems, get the average value of f_a.
** E.g. B/G+D/K system, f_a =6MHz*

2.3 Adjustment of VCO:

Apply an IF signal (gray scale), f_p refer to the tuner specification, to the IF input. Observe the waveform at pin 56 of IC201. By tuning IF T104, make the black level most smooth.

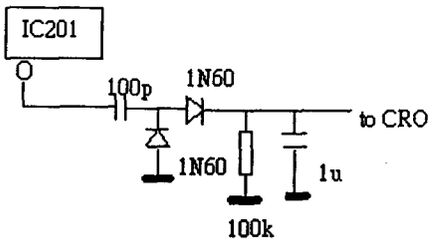


2.4 Adjustment of AFT:

Apply an IF signal, f_p refer to the tuner specification, (multi-burst & white field) to the IF input. Use a CRO to observe the waveform at pin 60 of IC201. Tuning IF T105 to minimize the ripple of the signal.

2.5 Adjustment of first sound IF:

Apply PAL IF signal (gray scale with audio), refer to table 2.5, to the IF input. Connect a detector to pin 64 of IC201. Observe the waveform with CRO. By tuning IF T106, maximize the AC voltage shown on the CRO.



Detector circuit

System	Audio carrier freq. /MHz
B/G	5.5
D/K	6.5
I	6
M	4.5

Table 2.5

Note: This procedure is optional for BG/DK with 38.9MHz IF frequency.

2.6 Adjustment of second sound IF:

Apply PAL IF signal (gray scale with audio), refer to table 2.5, to the IF input. The audio carrier must be modulated by a 1kHz signal with frequency deviation ±30kHz. Connect a multimeter and CRO to pin 1 of IC201. By tuning IF T103, adjust the DC voltage shown on the multimeter to 5.2±0.1V and the CRO must display a maximum signal without distortion.

2.7 Adjustment of SAW filter matching coil (if provided):

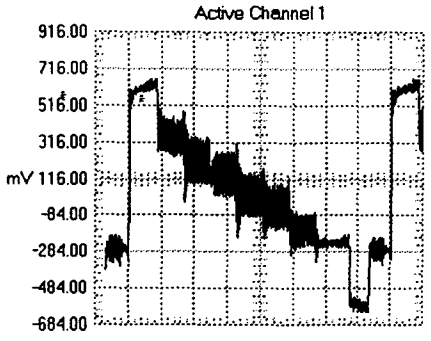
After complete the VCO and AFT alignment, apply an IF signal (multi burst and white field), f_p refer to the tuner specification, to the IF input. Connect a CRO to pin 21 of IC101 and observe the waveform of the output video signal. By tuning IF T107, adjust the amplitude of the multi burst signal so that is the same as the amplitude of the white field signal.

3 VCD

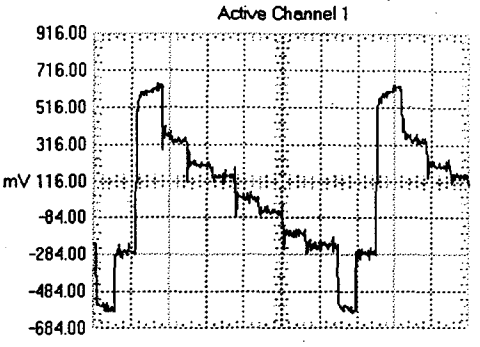
3.1 PAL aligment procdures

3.1.1 Absorption of color sub-carrier:

Input a PAL color bar signal. Observe the waveform at R251 and minimize the mis-alignment on the waveform by tuning T202 (minimize the level of color sub-carrier). Then change the channel to NTSC 3.58 and the absorption of the color carrier must be the same as the PAL channel.



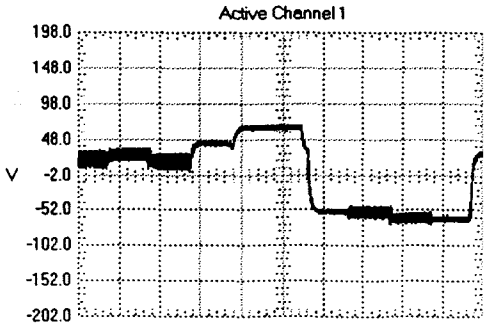
8μs / Div



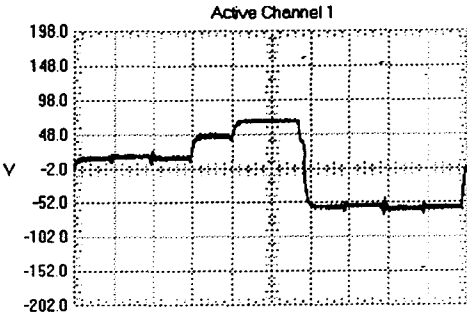
10μs / Div

3.1.2 Adjustment of color demodulation:

Select the PAL color bar, all analogue setting must be set to medium. Use a CRO to observe the waveform of the 'green cathode' terminal on the CRT board. By tuning VR201 and T203, minimize the mis-alignment of the waveform.



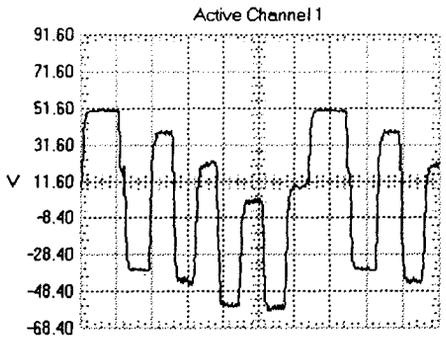
6.4μs / Div



6.4μs / Div

3.2 NTSC aligment procdures

Select the NTSC color bar signal and set the TV to 'standard' mode. Observe the waveform on the "blue cathode" terminal on the CRT board with CRO. Tuning IF T201 and get the following waveform.

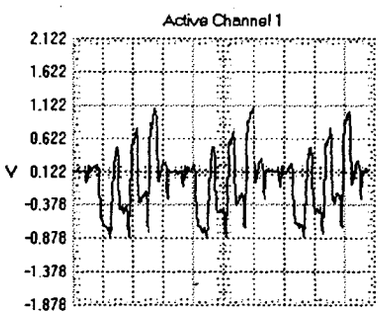


10μs / Div

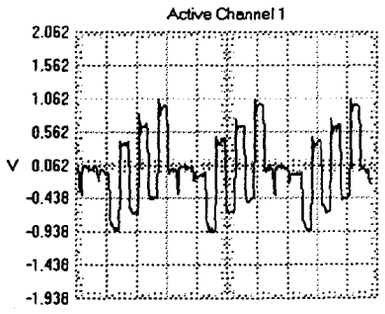
3.3 Secam aligment procedures

3.3.1 Bell filter

Select the SECAM color bar signal. Observe the waveform at pin 24 and 26 of IC201. Tuning IF T204 and get the correct waveform.

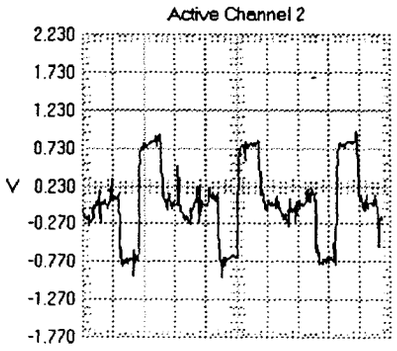


20μs / Div

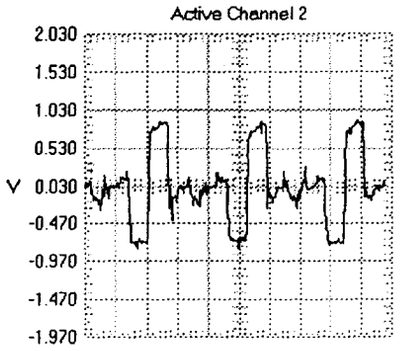


20μs / Div

Waveform at pin 26



20μs / Div



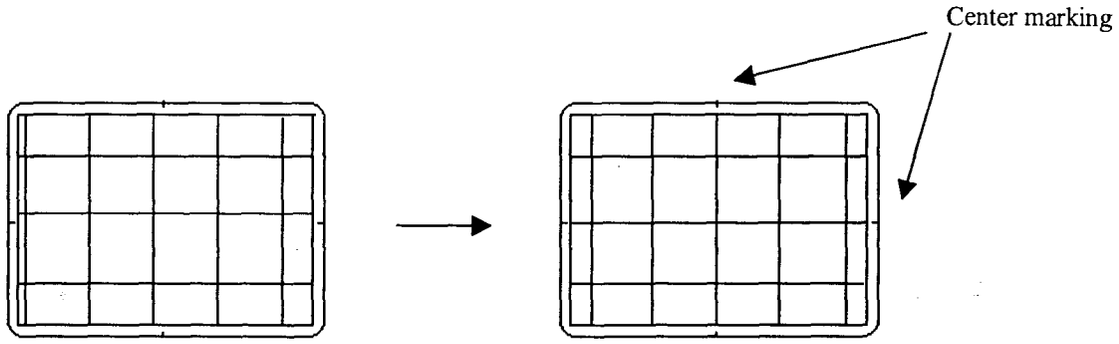
20μs / Div

Waveform at pin24

6 Screen Alignment

6.1 Center alignment:

Receive a center cross with border castellations pattern. Place the centerline (both vertical and horizontal) to the center marking of the CRT. The center of the screen can be adjusted by tuning VR302 (vertical) and VR204 (horizontal).



6.2 Screen size adjustment:

Receive a center cross with border castellations pattern. Adjust the screen size until the border was just disappearing on the screen. The screen size can be adjusted by tuning VR301 (vertical size). The screen size is 90%-95% of the CRT size.

7 Focus alignment

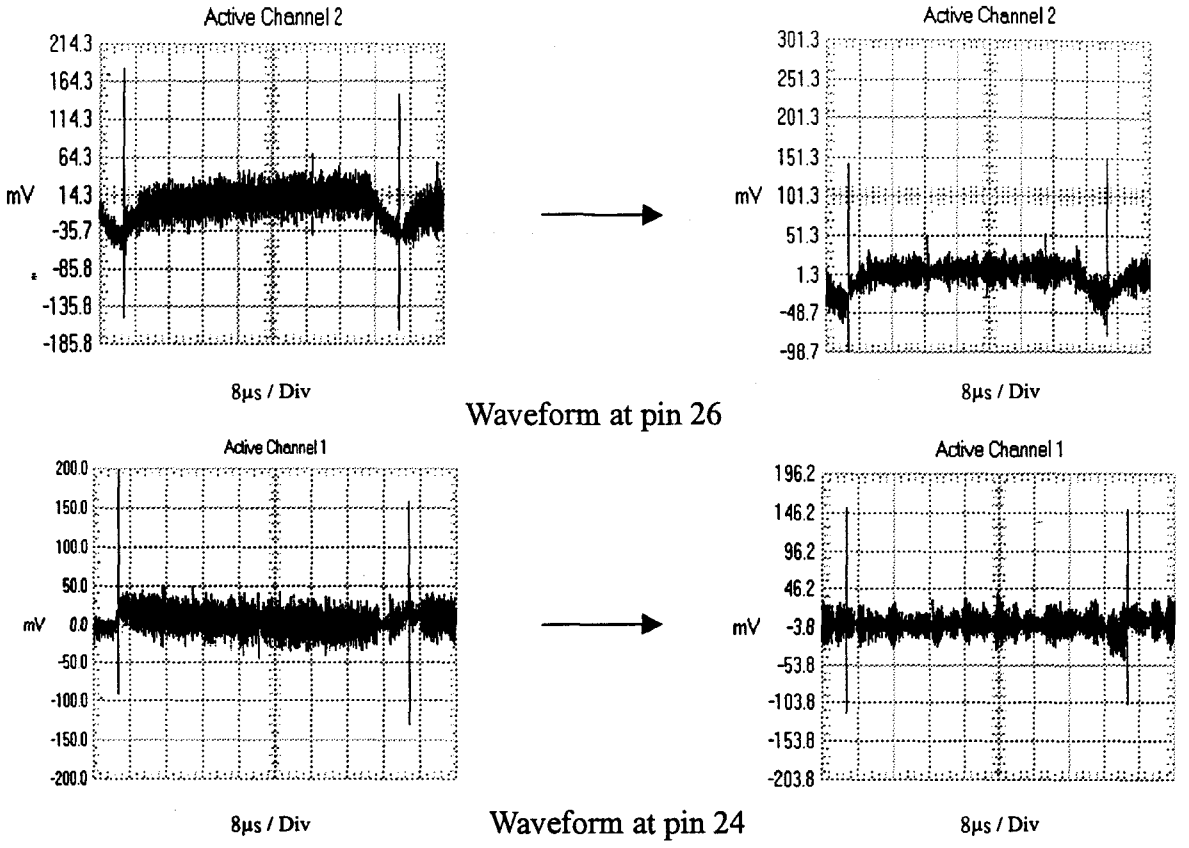
Receive a center cross with border castellation pattern. Then adjust the 'focus' switch on the flyback transformer until the picture become the clearest.

8 Cut-off alignment

Set the value of VR501, VR511 and VR521 to middle. Then turn the switch S301 to the service side and a red line will appear on the screen. Adjust the 'screen' switch on the flyback transformer to set the intensity of the red line to a minimum level (a level where the line is just appears). By adjusting VR501 and VR521, change the red line to a white line. Then adjust the 'screen' switch again and make the white just disappear.

3.3.2 De-emphasis alignment

Receive the gray scale pattern and observe the waveform at the pin 24 and 26 of IC201. Adjust VR202 until the remaining carrier reduced to minimum.



4 Adjustment of RF-AGC

Select the gray scale signal with amplitude about 60dBµV. Adjust VR101 until the noise at the left of the screen disappears.

5 On Screen Display Position Alignment

Select PAL standard testing signal. Press the 'Function' button on the remote control and the screen will display the OSD menu. Adjust the OSD menu to the center position by tuning T001.

Note: This procedure is not necessary for Philips Chassis.

9 White Balance

Receive a Red + Color bar pattern (black and white on the screen). Then set the value of VR511, VR502 and VR522 to meddle.

a. Use a CRT color analyzer to measure the black side of the screen. By adjusting VR501 and VR521, set the reading of the color analyzer to x=281, y=311, Y=10.
b. Then measure the white side of the screen. By adjusting VR502 and VR522, set the reading of the color analyzer to x=281, y=311, Y=100.
c. Measure the black size again and the reading may be changed. Then repeat step 'a' and 'b' until you can get the correct reading for both black and white sides.

Notes: The VR511 is for reference and its value is always set to middle.

10 Sub-brightness Alignment

Receive a gray scale pattern, set the contrast, brightness and color to center. Then adjust VR203 so that the brightness of the first and second step have a little difference.

MODEL NO.:	**CT-M519 Chassis type EC2189**		
BOM NO.:	**03-21894G-AA0**		
SYSTEM:	**PAL BG NTSC PLAYBACK AV IN / OUT CABLE TUNER 50P**		
Parts	Description	Qty	Location
08-267290-002	***ASS'Y - OTHER PARTS IN MAIN BOARD***		
14-255670-LR2	LED RED L- 53ID	1	D001
18-CB0100-JNX	RES. C.F. 10 OHM 1/6W +/-5%	1	R039
25-BCB220-M11	CAP. ELEC 22 UF 16V +/-20%	1	C023
41-BF0200-3BB	WIRE UL 1007 #24 200MM ORG.	1	
41-BF0200-7BB	WIRE UL 1007 #24 200MM VIOLET	1	
54-128375-000	FIBRE TUBE D=1MM L=20MM	1	
62-262660-0HA	POWER SW. ADAPTOR	1	
08-276620-001	***ASS'Y - POWER PARTS***		
10-0FR104-EB1	DIODE FR104 (FAST RECOVERY)	1	D813
10-0FR104-EB1	DIODE FR104 (FAST RECOVERY)	1	D814
10-0FR104-EB1	DIODE FR104 (FAST RECOVERY)	1	D816
10-0FR104-EB1	DIODE FR104 (FAST RECOVERY)	1	D825
10-0RL255-EB1	DIODE RL255 (RECTIFIER)	1	D801
10-0RL255-EB1	DIODE RL255 (RECTIFIER)	1	D802
10-0RL255-EB1	DIODE RL255 (RECTIFIER)	1	D803
10-0RL255-EB1	DIODE RL255 (RECTIFIER)	1	D804
10-0RU3AM-E01	DIODE RU3AM (FAST RECOVERY)	1	D824
10-1N4004-EB1	DIODE 1N4004 (RECTIFIER)	1	D807
10-1N4004-EB1	DIODE 1N4004 (RECTIFIER)	1	D808
10-1N4148-AB1	DIODE 1N4148 (SWITCHING)	1	D817
10-79C12V-DB1	DIODE ZENER 12V 1/2W 5%	1	D815
10-79C18V-DB1	DIODE ZENER 18V 1/2W 5%	1	D805
10-79C20V-DB1	DIODE ZENER 20V 1/2W 5%	1	D818
10-79C33V-DB1	DIODE ZENER 33V 1/2W 5%	1	D812
10-BYV96D-E01	DIODE BYV96D	1	D811
11-SC1815-YB1	TRANSISTOR 2SC1815Y	1	Q804
11-SC1815-YB1	TRANSISTOR 2SC1815Y	1	Q805
11-SC2230-YB1	TRANSISTOR 2SC2230Y	1	Q802
11-SD2498-0A1	TRANSISTOR 2SD2498 (POWER)	1	Q801
13-0TDA46-01S	IC TDA4601	1	IC801
18-BE0105-KN1	RES. C.C. 1M OHM 1/2W +/-10%	1	R809
18-BE0475-KN1	RES. C.C. 4.7M OHM 1/2W +/-10%	1	R835
18-BE0475-KN1	RES. C.C. 4.7M OHM 1/2W +/-10%	1	R835A
18-CB0101-JNX	RES. C.F. 100 OHM 1/6W +/-5%	1	R814
18-CB0102-JNX	RES. C.F. 1K OHM 1/6W +/-5%	1	J808
18-CB0102-JNX	RES. C.F. 1K OHM 1/6W +/-5%	1	R827
18-CB0223-JNX	RES. C.F. 22K OHM 1/6W +/-5%	1	R819
18-CB0223-JNX	RES. C.F. 22K OHM 1/6W +/-5%	1	R831
18-CB0332-JNX	RES. C.F. 3.3K OHM 1/6W +/-5%	1	R815
18-CB0472-JNX	RES. C.F. 4.7K OHM 1/6W +/-5%	1	R832
18-CD0103-JNX	RES. C.F. 10K OHM 1/4W +/-5%	1	R807
18-CD0103-JNX	RES. C.F. 10K OHM 1/4W +/-5%	1	R817
18-CD0221-JNX	RES. C.F. 220 OHM 1/4W +/-5%	1	R821
18-CE0102-JNX	RES. C.F. 1K OHM 1/2W +/-5%	1	R825
18-CE0109-JNX	RES. C.F. 1 OHM 1/2W +/-5%	1	R804
18-CE0122-JNX	RES. C.F. 1.2K OHM 1/2W +/-5%	1	R818
18-CE0124-JNX	RES. C.F. 120K OHM 1/2W +/-5%	1	R811
18-CE0124-JNX	RES. C.F. 120K OHM 1/2W +/-5%	1	R813
18-CE0154-JNX	RES. C.F. 150K OHM 1/2W +/-5%	1	R808

Parts	Description	Qty	Location
18-CE0154-JNX	RES. C.F. 150K OHM 1/2W +/-5%	1	R812
18-CE0470-JNX	RES. C.F. 47 OHM 1/2W +/-5%	1	R805
18-FF0470-JGX	RES. M.O. 47 OHM 1W +/-5%	1	R822
18-FF0472-JGX	RES. M.O. 4.7K OHM 1W +/-5%	1	R823
18-FG0153-JH1	RES. M.O. 15K OHM 2W +/-5%	1	R824
18-FH0390-JI1	RES. M.O. 39 OHM 3W +/-5%	1	R806
18-FH0472-JI1	RES. M.O. 4.7K OHM 3W +/-5%	1	R802
18-FH0472-JI1	RES. M.O. 4.7K OHM 3W +/-5%	1	R803
18-GM0339-KT1	RES. CEMENT 3.3 OHM 7W +/-10%	1	R801
20-215450-103	TRIMMER B10K HORIZ TYPE	1	VR801
22-202BG3-602	POSISTOR PTH451C202BG360N270	1	RT801
25-267980-M11	CAP. ELEC 100 UF 16/25V +/-20%	1	C813
25-BCB101-M11	CAP. ELEC 100 UF 16V +/-20%	1	C821
25-BEA471-M11	CAP. ELEC 470 UF 35V +/-20%	1	C831
25-BEB101-M11	CAP. ELEC 100 UF 35V +/-20%	1	C812
25-BFB100-M11	CAP. ELEC 10 UF 50V +/-20%	1	C822
25-BFB479-M11	CAP. ELEC 4.7 UF 50V +/-20%	1	C836
25-BJA109-M11	CAP. ELEC 1 UF 160V +/-20%	1	C824
25-BJG101-M11	CAP. ELEC 100 UF 160V +/-20%	1	C827
25-BMJ221-M11	CAP. ELEC 220 UF 400V +/-20%	1	C808
26-ABC101-JZX	CAP. CER 100 PF 50V +/-5% SL	1	C818
26-ABC103-ZFX	CAP. CER 0.01 UF 50V +80-20% F	1	C829
26-AIC221-KBX	CAP. CER 220 PF 500V +/-10% B	1	C828
26-AIM103-KBX	CAP. CER 0.01 UF 500V +/-10% B	1	C811
26-AMK102-KR1	CAP. CER 1000 PF 2KV +/-10% R	1	C815A
26-AMK102-KR1	CAP. CER 1000 PF 2KV +/-10% R	1	C830
26-AMK221-KZM	CAP. CER 220 PF 2KV +/-10% SL	1	C839
26-APK222-MEJ	CAP. CER 2200PF 400VAC+/-20% E	1	C835
26-AQK472-ZF1	CAP.CER 4700PF 250VAC +80-20%F	1	C805
26-AQK472-ZF1	CAP.CER 4700PF 250VAC +80-20%F	1	C806
27-ALQ222-J01	CAP. M.PP 0.0022UF 1.6KV +/-5%	1	C815
27-AQT224-MV1	CAP. M.PP 0.22UF 250VAC +/-20%	1	C801
27-MDK104-M01	CAP. M.PE 0.1UF 125/250VAC 20%	1	C802
27-MHW104-K01	CAP. METAL P.E. 0.1UF 400V 10%	1	C803
27-PBC682-J01	CAP. P.E. 0.0068 UF 50V +/-5%	1	C816
27-PBC682-J01	CAP. P.E. 0.0068 UF 50V +/-5%	1	C817
27-PBC682-J01	CAP. P.E. 0.0068 UF 50V +/-5%	1	C823
34-R101K2-1BX	COIL CHOKE 100 UH +/-10%	1	L804
34-R109J2-0EX	COIL PL - 1 UH +/-5%	1	L801
34-R109J2-0EX	COIL PL - 1 UH +/-5%	1	L802
35-139730-00X	FERR. BEAD BF60	1	L806
35-139730-00X	FERR. BEAD BF60	1	L807
36-238300-A02	LINE FILTER	1	T801
36-258740-A02	TRANSF. CONVERTER FOR TDA4601	1	T802
41-WJ0060-B00	WIRE BARE JUMPER 6MM	1	J815
41-WJ0060-B00	WIRE BARE JUMPER 6MM	1	J820
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	J802
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	J813
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	J821
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	J804
41-WJ0125-B00	WIRE BARE JUMPER 12.5MM	1	J806
41-WJ0150-B00	WIRE BARE JUMPER 15MM	1	J803
41-WJ0175-B00	WIRE BARE JUMPER 17.5MM	1	J811
41-WJ0175-B00	WIRE BARE JUMPER 17.5MM	1	J812
41-WJ0200-B00	WIRE BARE JUMPER 20MM	1	J801

Parts	Description	Qty	Location
41-WJ0200-B00	WIRE BARE JUMPER 20MM	1	J802A
41-WJ0200-B00	WIRE BARE JUMPER 20MM	1	J805
46-10962W-027	PIN BASE *2 TJC2-2A	1	P801
48-256460-0C0	SW. POWER TV8 (PCB MOUNTING)	1	S801
50-26930D-1VS	FUSE 2.0AT 250V 5X20MM BELL	1	F801
51-JC0243-0CC	POWER CORD 8FT W/PIN TERM. SAA	1	
54-113971-0U4	PVC TUBE #6 L=20MM	1	
62-10654X-00F	UNI - TIE 2.5X95MM	1	
62-249790-0HH	BRACKET PCB SUPPPORTER	1	
63-B3510X-AB4	S/T SCREW B 3.5 X 10 AB HARD	1	
64-B3008X-102	M/C SCREW B 3 X 8	1	
64-B3010X-104	M/C SCREW B 3 X 10	1	
65-E3305X-07E	SPRING WASHER 3.3 X 5.0 X 0.7	1	
65-Z3005X-23M	NUT M 3	1	
66-20516X-0B8	FUSE HOLDER	1	
67-258760-0A0	HEAT SINK	1	
71-221930-0AA	LABEL FUSE REPLACEMENT	1	
71-242640-0A2	LABEL WARNING LIVE PARTS	1	
74-010050-40C	POLYBAG FOR POWER CORD	1	
90-209770-000	SILICONE GREASE G-746	1	
08-276670-001	***ASS'Y - CRT BD***		
11-SC1815-YB1	TRANSISTOR 2SC1815Y	1	Q502
11-SC1815-YB1	TRANSISTOR 2SC1815Y	1	Q512
11-SC1815-YB1	TRANSISTOR 2SC1815Y	1	Q522
11-SC2482-0B1	TRANSISTOR 2SC2482	1	Q501
11-SC2482-0B1	TRANSISTOR 2SC2482	1	Q511
11-SC2482-0B1	TRANSISTOR 2SC2482	1	Q521
18-BE0272-KN1	RES. C.C. 2.7K OHM 1/2W +/-10%	1	R503
18-BE0272-KN1	RES. C.C. 2.7K OHM 1/2W +/-10%	1	R513
18-BE0272-KN1	RES. C.C. 2.7K OHM 1/2W +/-10%	1	R523
18-CB0101-JNX	RES. C.F. 100 OHM 1/6W +/-5%	1	L501
18-CB0101-JNX	RES. C.F. 100 OHM 1/6W +/-5%	1	R512
18-CB0121-JNX	RES. C.F. 120 OHM 1/6W +/05%	1	R501
18-CB0121-JNX	RES. C.F. 120 OHM 1/6W +/05%	1	R511
18-CB0121-JNX	RES. C.F. 120 OHM 1/6W +/05%	1	R521
18-CB0221-JNX	RES. C.F. 220 OHM 1/6W +/-5%	1	R509
18-CB0471-JNX	RES. C.F. 470 OHM 1/6W +/-5%	1	R505
18-CB0471-JNX	RES. C.F. 470 OHM 1/6W +/-5%	1	R515
18-CB0471-JNX	RES. C.F. 470 OHM 1/6W +/-5%	1	R525
18-FG0153-JH1	RES. M.O. 15K OHM 2W +/-5%	1	R506
18-FG0153-JH1	RES. M.O. 15K OHM 2W +/-5%	1	R516
18-FG0153-JH1	RES. M.O. 15K OHM 2W +/-5%	1	R526
20-203700-201	TRIMMER B200 VERT TYPE (8MM)	1	VR502
20-203700-201	TRIMMER B200 VERT TYPE (8MM)	1	VR522
20-216050-302	TRIMMER B3K VERT TYPE (8MM)	1	VR501
20-216050-302	TRIMMER B3K VERT TYPE (8MM)	1	VR511
20-216050-302	TRIMMER B3K VERT TYPE (8MM)	1	VR521
25-BCB101-M11	CAP. ELEC 100 UF 16V +/-20%	1	C504
26-ABC101-JZX	CAP. CER 100 PF 50V +/-5% SL	1	C511
26-ABC101-JZX	CAP. CER 100 PF 50V +/-5% SL	1	C512
26-ABC101-JZX	CAP. CER 100 PF 50V +/-5% SL	1	C513
26-ABC102-KBX	CAP. CER 1N PF 50V +/-10% B	1	C508
26-ABC103-ZFX	CAP. CER 0.01 UF 50V +80-20% F	1	C507
26-ABC471-JZX	CAP. CER 470 PF 50V +/-5% SL	1	C501

Parts	Description	Qty	Location
26-ABC471-JZX	CAP. CER 470 PF 50V +/-5% SL	1	C503
26-ABC561-JZX	CAP. CER 560 PF 50V +/-5%	1	C502
26-ABC561-JZX	CAP. CER 560 PF 50V +/-5%	1	C541
26-ABC561-JZX	CAP. CER 560 PF 50V +/-5%	1	C542
26-AIC472-KBX	CAP. CER 4700 PF 500V +/-10% B	1	C505
26-AMK102-KR1	CAP. CER 1000 PF 2KV +/-10% R	1	C506
34-R100K2-1CX	COIL CHOKE 10 UH +/-10%	1	L502
35-139730-00X	FERR. BEAD BF60	1	
40-237130-0AH	P.C.B. CRT BD	1	
41-WJ0050-B00	WIRE BARE JUMPER 5MM	1	L503
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	J501
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	J534
46-10967W-017	PIN BASE *1 TJC1-1A	1	P501
46-20389H-047	HS 4P24 460/5 F/W TJC3-4Y	1	P401H
46-22134H-067	HS 6P26 450/5 F/W TJC3-6Y	1	P201H
47-265540-0UX	SOCKET CRT GZS10-2-1G 29.1HB	1	S501
08-276991-001	***ASS'Y - MAIN BOARD***		
07-2900KK-C3X	TUNER 2900KKC-3X1784 (CABLE)	1	TU101
10-0FR104-EB1	DIODE FR104 (FAST RECOVERY)	1	D401
10-0FR104-EB1	DIODE FR104 (FAST RECOVERY)	1	D402
10-0FR104-EB1	DIODE FR104 (FAST RECOVERY)	1	D403
10-1N4001-EB1	DIODE 1N4001 (RECTIFIER)	1	D601
10-1N4002-EB1	DIODE 1N4002 (RECTIFIER)	1	D301
10-1N4002-EB1	DIODE 1N4002 (RECTIFIER)	1	D411
10-1N4148-AB1	DIODE 1N4148 (SWITCHING)	1	D005
10-1N4148-AB1	DIODE 1N4148 (SWITCHING)	1	D006
10-1N4148-AB1	DIODE 1N4148 (SWITCHING)	1	D007
10-1N4148-AB1	DIODE 1N4148 (SWITCHING)	1	D008
10-1N4148-AB1	DIODE 1N4148 (SWITCHING)	1	D012
10-1N4148-AB1	DIODE 1N4148 (SWITCHING)	1	D101
10-1N4148-AB1	DIODE 1N4148 (SWITCHING)	1	D201
10-1N4148-AB1	DIODE 1N4148 (SWITCHING)	1	D208
10-79C18V-DB1	DIODE ZENER 18V 1/2W 5%	1	D404
10-79C5V1-DB1	DIODE ZENER 5.1V 1/2W 5%	1	D003
10-PC574J-DJ1	DIODE ZENER UPC 574J	1	D002
11-2N3904-0B1	TRANSISTOR 2N3904	1	Q001
11-A562TM-0B1	TRANSISTOR 2SA562TM-0	1	Q203
11-SA1015-YB1	TRANSISTOR 2SA1015Y	1	Q005
11-SA1015-YB1	TRANSISTOR 2SA1015Y	1	Q1302
11-SA1015-YB1	TRANSISTOR 2SA1015Y	1	Q601
11-SC1815-YB1	TRANSISTOR 2SC1815Y	1	Q003
11-SC1815-YB1	TRANSISTOR 2SC1815Y	1	Q004
11-SC1815-YB1	TRANSISTOR 2SC1815Y	1	Q006
11-SC1815-YB1	TRANSISTOR 2SC1815Y	1	Q007
11-SC1815-YB1	TRANSISTOR 2SC1815Y	1	Q102
11-SC1815-YB1	TRANSISTOR 2SC1815Y	1	Q103
11-SC1815-YB1	TRANSISTOR 2SC1815Y	1	Q105
11-SC1815-YB1	TRANSISTOR 2SC1815Y	1	Q106
11-SC1815-YB1	TRANSISTOR 2SC1815Y	1	Q1301
11-SC1815-YB1	TRANSISTOR 2SC1815Y	1	Q201
11-SC1815-YB1	TRANSISTOR 2SC1815Y	1	Q204
11-SC1815-YB1	TRANSISTOR 2SC1815Y	1	Q205
11-SC1815-YB1	TRANSISTOR 2SC1815Y	1	Q207
11-SC1815-YB1	TRANSISTOR 2SC1815Y	1	Q211

Parts	Description	Qty	Location
11-SC1815-YB1	TRANSISTOR 2SC1815Y	1	Q212
11-SC1815-YB1	TRANSISTOR 2SC1815Y	1	Q301
11-SC2482-0B1	TRANSISTOR 2SC2482	1	Q401
11-SC3779-DB1	TRANSISTOR 2SC3779D (RF AMPL)	1	Q101
11-SD2499-0A1	TRANSISTOR 2SD2499 (POWER)	1	Q402
13-00AN52-65S	IC AN5265 (AUDIO AMPL.)	1	IC601
13-00MC78-09S	IC MC7809C LINEAR +9V 1A	1	IC402
13-0DBL20-44S	IC DBL2044(BAND SELECT)	1	IC101
13-0LA768-5JP	IC LA7685J P/N IF+VCD	1	IC201
13-0TA844-5KS	IC TA8445K (VERT OUTPUT)	1	IC301
13-NJM290-4DP	IC NJM2904D	1	IC202
13-P47C83-4AP	IC TMP47C834N-LK-5140M2A(RB11)	1	IC001
13-ST24C0-2FP	IC ST24C02FB6 EEPROM 2K	1	IC002
18-CB0102-JNX	RES. C.F. 1K OHM 1/6W +/-5%	1	J044
18-CB0102-JNX	RES. C.F. 1K OHM 1/6W +/-5%	1	J135
18-CB0102-JNX	RES. C.F. 1K OHM 1/6W +/-5%	1	R040
18-CB0102-JNX	RES. C.F. 1K OHM 1/6W +/-5%	1	R129
18-CB0102-JNX	RES. C.F. 1K OHM 1/6W +/-5%	1	R1301
18-CB0102-JNX	RES. C.F. 1K OHM 1/6W +/-5%	1	R161
18-CB0102-JNX	RES. C.F. 1K OHM 1/6W +/-5%	1	R244
18-CB0102-JNX	RES. C.F. 1K OHM 1/6W +/-5%	1	R245
18-CB0102-JNX	RES. C.F. 1K OHM 1/6W +/-5%	1	R271
18-CB0102-JNX	RES. C.F. 1K OHM 1/6W +/-5%	1	R272
18-CB0102-JNX	RES. C.F. 1K OHM 1/6W +/-5%	1	R273
18-CB0102-JNX	RES. C.F. 1K OHM 1/6W +/-5%	1	R411
18-CB0103-JNX	RES. C.F. 10K OHM 1/6W +/-5%	1	R009
18-CB0103-JNX	RES. C.F. 10K OHM 1/6W +/-5%	1	R014
18-CB0103-JNX	RES. C.F. 10K OHM 1/6W +/-5%	1	R016
18-CB0103-JNX	RES. C.F. 10K OHM 1/6W +/-5%	1	R019
18-CB0103-JNX	RES. C.F. 10K OHM 1/6W +/-5%	1	R028
18-CB0103-JNX	RES. C.F. 10K OHM 1/6W +/-5%	1	R029
18-CB0103-JNX	RES. C.F. 10K OHM 1/6W +/-5%	1	R030
18-CB0103-JNX	RES. C.F. 10K OHM 1/6W +/-5%	1	R034
18-CB0103-JNX	RES. C.F. 10K OHM 1/6W +/-5%	1	R035
18-CB0103-JNX	RES. C.F. 10K OHM 1/6W +/-5%	1	R037
18-CB0103-JNX	RES. C.F. 10K OHM 1/6W +/-5%	1	R038
18-CB0103-JNX	RES. C.F. 10K OHM 1/6W +/-5%	1	R050A
18-CB0103-JNX	RES. C.F. 10K OHM 1/6W +/-5%	1	R051
18-CB0103-JNX	RES. C.F. 10K OHM 1/6W +/-5%	1	R061
18-CB0103-JNX	RES. C.F. 10K OHM 1/6W +/-5%	1	R151
18-CB0103-JNX	RES. C.F. 10K OHM 1/6W +/-5%	1	R220
18-CB0103-JNX	RES. C.F. 10K OHM 1/6W +/-5%	1	R223
18-CB0103-JNX	RES. C.F. 10K OHM 1/6W +/-5%	1	R249
18-CB0103-JNX	RES. C.F. 10K OHM 1/6W +/-5%	1	R256
18-CB0103-JNX	RES. C.F. 10K OHM 1/6W +/-5%	1	R265
18-CB0103-JNX	RES. C.F. 10K OHM 1/6W +/-5%	1	R301
18-CB0103-JNX	RES. C.F. 10K OHM 1/6W +/-5%	1	R307
18-CB0103-JNX	RES. C.F. 10K OHM 1/6W +/-5%	1	R605
18-CB0104-JNX	RES. C.F. 100K OHM 1/6W +/-5%	1	R132
18-CB0104-JNX	RES. C.F. 100K OHM 1/6W +/-5%	1	R135A
18-CB0104-JNX	RES. C.F. 100K OHM 1/6W +/-5%	1	R225
18-CB0104-JNX	RES. C.F. 100K OHM 1/6W +/-5%	1	R254
18-CB0105-JNX	RES. C.F. 1M OHM 1/6W +/-5%	1	R135
18-CB0105-JNX	RES. C.F. 1M OHM 1/6W +/-5%	1	R201
18-CB0121-JNX	RES. C.F. 120 OHM 1/6W +/05%	1	R109

Parts	Description	Qty	Location
18-CB0122-JNX	RES. C.F. 1.2K OHM 1/6W +/-5%	1	R043
18-CB0122-JNX	RES. C.F. 1.2K OHM 1/6W +/-5%	1	R247
18-CB0123-JNX	RES. C.F. 12K OHM 1/6W +/-5%	1	R007
18-CB0123-JNX	RES. C.F. 12K OHM 1/6W +/-5%	1	R306
18-CB0124-JNX	RES. C.F. 120K OHM 1/6W +/-5%	1	R214
18-CB0151-JNX	RES. C.F. 150 OHM 1/6W +/-5%	1	L110
18-CB0151-JNX	RES. C.F. 150 OHM 1/6W +/-5%	1	R107
18-CB0151-JNX	RES. C.F. 150 OHM 1/6W +/-5%	1	R234
18-CB0152-JNX	RES. C.F. 1.5K OHM 1/6W +/-5%	1	L107
18-CB0152-JNX	RES. C.F. 1.5K OHM 1/6W +/-5%	1	R002
18-CB0153-JNX	RES. C.F. 15K OHM 1/6W +/-5%	1	R004
18-CB0153-JNX	RES. C.F. 15K OHM 1/6W +/-5%	1	R005
18-CB0153-JNX	RES. C.F. 15K OHM 1/6W +/-5%	1	R010
18-CB0153-JNX	RES. C.F. 15K OHM 1/6W +/-5%	1	R055
18-CB0153-JNX	RES. C.F. 15K OHM 1/6W +/-5%	1	R202
18-CB0154-JNX	RES. C.F. 150K OHM 1/6W +/-5%	1	R020
18-CB0154-JNX	RES. C.F. 150K OHM 1/6W +/-5%	1	R137
18-CB0184-JNX	RES. C.F. 180K OHM 1/6W +/-5%	1	R228
18-CB0220-JNX	RES. C.F. 22 OHM 1/6W +/-5%	1	R011
18-CB0220-JNX	RES. C.F. 22 OHM 1/6W +/-5%	1	R119
18-CB0220-JNX	RES. C.F. 22 OHM 1/6W +/-5%	1	R274
18-CB0221-JNX	RES. C.F. 220 OHM 1/6W +/-5%	1	J161
18-CB0221-JNX	RES. C.F. 220 OHM 1/6W +/-5%	1	R008
18-CB0221-JNX	RES. C.F. 220 OHM 1/6W +/-5%	1	R601
18-CB0221-JNX	RES. C.F. 220 OHM 1/6W +/-5%	1	R1306
18-CB0222-JNX	RES. C.F. 2.2K OHM 1/6W +/-5%	1	R033
18-CB0222-JNX	RES. C.F. 2.2K OHM 1/6W +/-5%	1	R041
18-CB0222-JNX	RES. C.F. 2.2K OHM 1/6W +/-5%	1	R042
18-CB0222-JNX	RES. C.F. 2.2K OHM 1/6W +/-5%	1	R114
18-CB0222-JNX	RES. C.F. 2.2K OHM 1/6W +/-5%	1	R211
18-CB0222-JNX	RES. C.F. 2.2K OHM 1/6W +/-5%	1	R242
18-CB0222-JNX	RES. C.F. 2.2K OHM 1/6W +/-5%	1	R243
18-CB0222-JNX	RES. C.F. 2.2K OHM 1/6W +/-5%	1	R248
18-CB0222-JNX	RES. C.F. 2.2K OHM 1/6W +/-5%	1	R253
18-CB0222-JNX	RES. C.F. 2.2K OHM 1/6W +/-5%	1	R263
18-CB0222-JNX	RES. C.F. 2.2K OHM 1/6W +/-5%	1	R401
18-CB0222-JNX	RES. C.F. 2.2K OHM 1/6W +/-5%	1	R603
18-CB0223-JNX	RES. C.F. 22K OHM 1/6W +/-5%	1	R012
18-CB0223-JNX	RES. C.F. 22K OHM 1/6W +/-5%	1	R047
18-CB0223-JNX	RES. C.F. 22K OHM 1/6W +/-5%	1	R048
18-CB0223-JNX	RES. C.F. 22K OHM 1/6W +/-5%	1	R053
18-CB0223-JNX	RES. C.F. 22K OHM 1/6W +/-5%	1	R054
18-CB0223-JNX	RES. C.F. 22K OHM 1/6W +/-5%	1	R203
18-CB0223-JNX	RES. C.F. 22K OHM 1/6W +/-5%	1	R269
18-CB0223-JNX	RES. C.F. 22K OHM 1/6W +/-5%	1	R302
18-CB0223-JNX	RES. C.F. 22K OHM 1/6W +/-5%	1	R611
18-CB0223-JNX	RES. C.F. 22K OHM 1/6W +/-5%	1	R144
18-CB0223-JNX	RES. C.F. 22K OHM 1/6W +/-5%	1	R139
18-CB0224-JNX	RES. C.F. 220K OHM 1/6W +/-5%	1	R027
18-CB0224-JNX	RES. C.F. 220K OHM 1/6W +/-5%	1	R116
18-CB0224-JNX	RES. C.F. 220K OHM 1/6W +/-5%	1	R126
18-CB0224-JNX	RES. C.F. 220K OHM 1/6W +/-5%	1	R128
18-CB0225-JNX	RES. C.F. 2.2M OHM 1/6W +/-5%	1	R057
18-CB0272-JNX	RES. C.F. 2.7K OHM 1/6W +/-5%	1	R141
18-CB0272-JNX	RES. C.F. 2.7K OHM 1/6W +/-5%	1	R259

Parts	Description	Qty	Location
18-CB0274-JNX	RES. C.F. 270K OHM 1/6W +/-5%	1	R136
18-CB0331-JNX	RES. C.F. 330 OHM 1/6W +/-5%	1	R227
18-CB0331-JNX	RES. C.F. 330 OHM 1/6W +/-5%	1	R312
18-CB0332-JNX	RES. C.F. 3.3K OHM 1/6W +/-5%	1	R046
18-CB0332-JNX	RES. C.F. 3.3K OHM 1/6W +/-5%	1	R125
18-CB0332-JNX	RES. C.F. 3.3K OHM 1/6W +/-5%	1	R127
18-CB0332-JNX	RES. C.F. 3.3K OHM 1/6W +/-5%	1	R224
18-CB0332-JNX	RES. C.F. 3.3K OHM 1/6W +/-5%	1	R226
18-CB0333-JNX	RES. C.F. 33K OHM 1/6W +/-5%	1	R006
18-CB0333-JNX	RES. C.F. 33K OHM 1/6W +/-5%	1	R021
18-CB0333-JNX	RES. C.F. 33K OHM 1/6W +/-5%	1	R060
18-CB0333-JNX	RES. C.F. 33K OHM 1/6W +/-5%	1	R237
18-CB0334-JNX	RES. C.F. 330K OHM 1/6W +/-5%	1	R105
18-CB0391-JNX	RES. C.F. 390 OHM 1/6W +/-5%	1	R213
18-CB0391-JNX	RES. C.F. 390 OHM 1/6W +/-5%	1	R215
18-CB0394-JNX	RES. C.F. 390K OHM 1/6W +/-5%	1	R241
18-CB0471-JNX	RES. C.F. 470 OHM 1/6W +/-5%	1	R056
18-CB0471-JNX	RES. C.F. 470 OHM 1/6W +/-5%	1	R110
18-CB0471-JNX	RES. C.F. 470 OHM 1/6W +/-5%	1	R118
18-CB0471-JNX	RES. C.F. 470 OHM 1/6W +/-5%	1	R1303
18-CB0471-JNX	RES. C.F. 470 OHM 1/6W +/-5%	1	R134
18-CB0471-JNX	RES. C.F. 470 OHM 1/6W +/-5%	1	R258
18-CB0471-JNX	RES. C.F. 470 OHM 1/6W +/-5%	1	R604
18-CB0472-JNX	RES. C.F. 4.7K OHM 1/6W +/-5%	1	R001
18-CB0472-JNX	RES. C.F. 4.7K OHM 1/6W +/-5%	1	R031
18-CB0472-JNX	RES. C.F. 4.7K OHM 1/6W +/-5%	1	R101
18-CB0472-JNX	RES. C.F. 4.7K OHM 1/6W +/-5%	1	R102
18-CB0472-JNX	RES. C.F. 4.7K OHM 1/6W +/-5%	1	R103
18-CB0472-JNX	RES. C.F. 4.7K OHM 1/6W +/-5%	1	R117
18-CB0472-JNX	RES. C.F. 4.7K OHM 1/6W +/-5%	1	R143
18-CB0472-JNX	RES. C.F. 4.7K OHM 1/6W +/-5%	1	R250
18-CB0472-JNX	RES. C.F. 4.7K OHM 1/6W +/-5%	1	R262A
18-CB0472-JNX	RES. C.F. 4.7K OHM 1/6W +/-5%	1	R266
18-CB0472-JNX	RES. C.F. 4.7K OHM 1/6W +/-5%	1	R608
18-CB0472-JNX	RES. C.F. 4.7K OHM 1/6W +/-5%	1	D204
18-CB0472-JNX	RES. C.F. 4.7K OHM 1/6W +/-5%	1	R267
18-CB0472-JNX	RES. C.F. 4.7K OHM 1/6W +/-5%	1	R058
18-CB0472-JNX	RES. C.F. 4.7K OHM 1/6W +/-5%	1	R059
18-CB0473-JNX	RES. C.F. 47K OHM 1/6W +/-5%	1	R003
18-CB0473-JNX	RES. C.F. 47K OHM 1/6W +/-5%	1	R018
18-CB0473-JNX	RES. C.F. 47K OHM 1/6W +/-5%	1	R044
18-CB0473-JNX	RES. C.F. 47K OHM 1/6W +/-5%	1	R052
18-CB0473-JNX	RES. C.F. 47K OHM 1/6W +/-5%	1	R106
18-CB0473-JNX	RES. C.F. 47K OHM 1/6W +/-5%	1	R142
18-CB0473-JNX	RES. C.F. 47K OHM 1/6W +/-5%	1	R255
18-CB0473-JNX	RES. C.F. 47K OHM 1/6W +/-5%	1	R257
18-CB0473-JNX	RES. C.F. 47K OHM 1/6W +/-5%	1	R313
18-CB0473-JNX	RES. C.F. 47K OHM 1/6W +/-5%	1	R120A
18-CB0474-JNX	RES. C.F. 470K OHM 1/6W +/-5%	1	R233
18-CB0474-JNX	RES. C.F. 470K OHM 1/6W +/-5%	1	R104
18-CB0511-JNX	RES. C.F. 510 OHM 1/6W +/-5%	1	R122
18-CB0511-JNX	RES. C.F. 510 OHM 1/6W +/-5%	1	R131
18-CB0560-JNX	RES. C.F. 56 OHM 1/6W +/-5%	1	R112
18-CB0561-JNX	RES. C.F. 560 OHM 1/6W +/-5%	1	R045
18-CB0561-JNX	RES. C.F. 560 OHM 1/6W +/-5%	1	R1302

Parts	Description	Qty	Location
18-CB0561-JNX	RES. C.F. 560 OHM 1/6W +/-5%	1	R238
18-CB0562-JNX	RES. C.F. 5.6K OHM 1/6W +/-5%	1	R013
18-CB0681-JNX	RES. C.F. 680 OHM 1/6W +/-5%	1	R204
18-CB0681-JNX	RES. C.F. 680 OHM 1/6W +/-5%	1	R205
18-CB0682-JNX	RES. C.F. 6.8K OHM 1/6W +/-5%	1	R022
18-CB0682-JNX	RES. C.F. 6.8K OHM 1/6W +/-5%	1	R023
18-CB0682-JNX	RES. C.F. 6.8K OHM 1/6W +/-5%	1	R064
18-CB0683-JNX	RES. C.F. 68K OHM 1/6W +/-5%	1	R308
18-CB0750-JNX	RES. C.F. 75 OHM 1/6W +/-5%	1	R1304
18-CB0752-JNX	RES. C.F. 7.5K OHM 1/6W +/-5%	1	R609
18-CB0820-JNX	RES. C.F. 82 OHM 1/6W +/-5%	1	R1305
18-CB0820-JNX	RES. C.F. 82 OHM 1/6W +/-5%	1	R212
18-CB0821-JNX	RES. C.F. 820 OHM 1/6W +/-5%	1	R251
18-CB0821-JNX	RES. C.F. 820 OHM 1/6W +/-5%	1	R252
18-CB0822-JNX	RES. C.F. 8.2K OHM 1/6W +/-5%	1	R303
18-CB0822-JNX	RES. C.F. 8.2K OHM 1/6W +/-5%	1	R015
18-CB0823-JNX	RES. C.F. 82K OHM 1/6W +/-5%	1	R305
18-CB0823-JNX	RES. C.F. 82K OHM 1/6W +/-5%	1	R138
18-CD0100-JNX	RES. C.F. 10 OHM 1/4W +/-5%	1	R606
18-CD0221-JNX	RES. C.F. 220 OHM 1/4W +/-5%	1	R032
18-CD0471-JNX	RES. C.F. 470 OHM 1/4W +/-5%	1	R208
18-CE0331-JNX	RES. C.F. 330 OHM 1/2W +/-5%	1	R311
18-CE0823-JNX	RES. C.F. 82K OHM 1/2W +/-5%	1	R412
18-DF0109-JGX	RES. M.F. 1 OHM 1W +/-5%	1	R407
18-EF0109-JG1	RES. FUS 1 OHM 1W +/-5%(LS)	1	R405
18-EF0109-JG1	RES. FUS 1 OHM 1W +/-5%(LS)	1	R409
18-FE0681-JXX	RES. M.O. 680 OHM 1/2W +/-5%	1	R309
18-FF0103-JGX	RES. M.O. 10K OHM 1W +/-5%	1	R404
18-FF0103-JGX	RES. M.O. 10K OHM 1W +/-5%	1	R413
18-FF0122-JGX	RES. M.O. 1.2K OHM 1W +/-5%	1	R414
18-FF0189-JGX	RES. M.O. 1.8 OHM 1W +/-5%	1	R310
18-FF0330-JGX	RES. M.O. 33 OHM 1W +/-5%	1	J401
18-FG0100-JH1	RES. M.O. 10 OHM 2W +/-5%	1	R607
18-FG0682-JH1	RES. M.O. 6.8K OHM 2W +/-5%	1	R408
18-FH0242-JI1	RES. M.O. 2.4K OHM 3W +/-5%	1	R402
20-141610-302	TRIMMER B3K VERT TYPE	1	VR302
20-200561-102	TRIMMER B1K HORIZ TYPE	1	C405
20-201260-203	TRIMMER B20K VERT TYPE	1	VR204
20-201260-203	TRIMMER B20K VERT TYPE	1	VR301
20-202980-503	TRIMMER B50K VERT TYPE	1	VR203
20-215450-103	TRIMMER B10K HORIZ TYPE	1	VR101
25-BCA102-M11	CAP. ELEC 1000 UF 16V +/-20%	1	C416
25-BCB100-M11	CAP. ELEC 10 UF 16V +/-20%	1	C119
25-BCB100-M11	CAP. ELEC 10 UF 16V +/-20%	1	C122
25-BCB100-M11	CAP. ELEC 10 UF 16V +/-20%	1	C124
25-BCB100-M11	CAP. ELEC 10 UF 16V +/-20%	1	C130
25-BCB100-M11	CAP. ELEC 10 UF 16V +/-20%	1	C132
25-BCB100-M11	CAP. ELEC 10 UF 16V +/-20%	1	C211
25-BCB100-M11	CAP. ELEC 10 UF 16V +/-20%	1	C212
25-BCB100-M11	CAP. ELEC 10 UF 16V +/-20%	1	C227
25-BCB100-M11	CAP. ELEC 10 UF 16V +/-20%	1	C228
25-BCB100-M11	CAP. ELEC 10 UF 16V +/-20%	1	C233
25-BCB100-M11	CAP. ELEC 10 UF 16V +/-20%	1	C234
25-BCB100-M11	CAP. ELEC 10 UF 16V +/-20%	1	C252
25-BCB100-M11	CAP. ELEC 10 UF 16V +/-20%	1	C604

Parts	Description	Qty	Location
25-BCB100-M11	CAP. ELEC 10 UF 16V +/-20%	1	C605
25-BCB100-M11	CAP. ELEC 10 UF 16V +/-20%	1	C611
25-BCB101-M11	CAP. ELEC 100 UF 16V +/-20%	1	C103
25-BCB101-M11	CAP. ELEC 100 UF 16V +/-20%	1	C135
25-BCB101-M11	CAP. ELEC 100 UF 16V +/-20%	1	C202
25-BCB101-M11	CAP. ELEC 100 UF 16V +/-20%	1	C301
25-BCB101-M11	CAP. ELEC 100 UF 16V +/-20%	1	C307
25-BCB101-M11	CAP. ELEC 100 UF 16V +/-20%	1	C601
25-BCB101-M11	CAP. ELEC 100 UF 16V +/-20%	1	C612
25-BCB220-M11	CAP. ELEC 22 UF 16V +/-20%	1	C008
25-BCB220-M11	CAP. ELEC 22 UF 16V +/-20%	1	C013
25-BCB220-M11	CAP. ELEC 22 UF 16V +/-20%	1	C213
25-BCB221-M11	CAP. ELEC 220 UF 16V +/-20%	1	C038
25-BCB330-M11	CAP. ELEC 33 UF 16V +/-20%	1	C243
25-BCB331-M11	CAP. ELEC 330 UF 16V +/-20%	1	C117
25-BCB331-M11	CAP. ELEC 330 UF 16V +/-20%	1	C242
25-BCB471-M11	CAP. ELEC 470 UF 16V +/-20%	1	C309
25-BCB471-M11	CAP. ELEC 470 UF 16V +/-20%	1	C418
25-BCB471-M11	CAP. ELEC 470 UF 16V +/-20%	1	C608
25-BDA471-M11	CAP. ELEC 470 UF 25V +/-20%	1	C607
25-BEA471-M11	CAP. ELEC 470 UF 35V +/-20%	1	C413
25-BEB101-M11	CAP. ELEC 100 UF 35V +/-20%	1	C305
25-BFB100-M11	CAP. ELEC 10 UF 50V +/-20%	1	C006
25-BFB109-K1A	CAP. ELEC 1 UF 50V 10% CEC-K	1	C303
25-BFB109-M11	CAP. ELEC 1 UF 50V +/-20%	1	C105
25-BFB109-M11	CAP. ELEC 1 UF 50V +/-20%	1	C107
25-BFB109-M11	CAP. ELEC 1 UF 50V +/-20%	1	C226
25-BFB109-M11	CAP. ELEC 1 UF 50V +/-20%	1	C232
25-BFB109-M11	CAP. ELEC 1 UF 50V +/-20%	1	C602
25-BFB229-K1A	CAP. ELEC 2.2UF 50V 10% CEC-K	1	C308
25-BFB229-M11	CAP. ELEC 2.2 UF 50V +/-20%	1	C121
25-BFB229-M11	CAP. ELEC 2.2 UF 50V +/-20%	1	C241
25-BFB229-M11	CAP. ELEC 2.2 UF 50V +/-20%	1	C266
25-BFB478-M11	CAP. ELEC 0.47 UF 50V +/-20%	1	C016
25-BFB478-M11	CAP. ELEC 0.47 UF 50V +/-20%	1	C031
25-BFB478-M11	CAP. ELEC 0.47 UF 50V +/-20%	1	C126
25-BFB478-M11	CAP. ELEC 0.47 UF 50V +/-20%	1	C131
25-BFB478-M11	CAP. ELEC 0.47 UF 50V +/-20%	1	C206
25-BFB478-M11	CAP. ELEC 0.47 UF 50V +/-20%	1	C250
25-BFB478-M11	CAP. ELEC 0.47 UF 50V +/-20%	1	C251
25-BHA100-M11	CAP. ELEC 10 UF 100V +/-20%	1	C420
25-BJA109-M11	CAP. ELEC 1 UF 160V +/-20%	1	C410
25-BJG470-M11	CAP. ELEC 47 UF 160V +/-20%	1	C411
25-BLA100-M11	CAP. ELEC 10 UF 250V +/-20%	1	C408
26-ABC100-JZX	CAP. CER 10 PF 50V +/-5% SL	1	C117A
26-ABC101-JZX	CAP. CER 100 PF 50V +/-5% SL	1	C002
26-ABC101-JZX	CAP. CER 100 PF 50V +/-5% SL	1	C044A
26-ABC102-KBX	CAP. CER 1N PF 50V +/-10% B	1	C265
26-ABC102-KBX	CAP. CER 1N PF 50V +/-10% B	1	C404
26-ABC103-ZFX	CAP. CER 0.01 UF 50V +80-20% F	1	C114
26-ABC103-ZFX	CAP. CER 0.01 UF 50V +80-20% F	1	C125
26-ABC103-ZFX	CAP. CER 0.01 UF 50V +80-20% F	1	C1301
26-ABC103-ZFX	CAP. CER 0.01 UF 50V +80-20% F	1	C134
26-ABC103-ZFX	CAP. CER 0.01 UF 50V +80-20% F	1	C201
26-ABC103-ZFX	CAP. CER 0.01 UF 50V +80-20% F	1	C216

Parts	Description	Qty	Location
26-ABC103-ZFX	CAP. CER 0.01 UF 50V +80-20% F	1	C237
26-ABC103-ZFX	CAP. CER 0.01 UF 50V +80-20% F	1	C244
26-ABC103-ZFX	CAP. CER 0.01 UF 50V +80-20% F	1	C248
26-ABC103-ZFX	CAP. CER 0.01 UF 50V +80-20% F	1	C302
26-ABC103-ZFX	CAP. CER 0.01 UF 50V +80-20% F	1	C304
26-ABC103-ZFX	CAP. CER 0.01 UF 50V +80-20% F	1	C415
26-ABC103-ZFX	CAP. CER 0.01 UF 50V +80-20% F	1	C007
26-ABC103-ZFX	CAP. CER 0.01 UF 50V +80-20% F	1	C017
26-ABC103-ZFX	CAP. CER 0.01 UF 50V +80-20% F	1	C018
26-ABC103-ZFX	CAP. CER 0.01 UF 50V +80-20% F	1	C019
26-ABC103-ZFX	CAP. CER 0.01 UF 50V +80-20% F	1	C020
26-ABC103-ZFX	CAP. CER 0.01 UF 50V +80-20% F	1	C021
26-ABC103-ZFX	CAP. CER 0.01 UF 50V +80-20% F	1	C102
26-ABC103-ZFX	CAP. CER 0.01 UF 50V +80-20% F	1	C104
26-ABC103-ZFX	CAP. CER 0.01 UF 50V +80-20% F	1	C106
26-ABC103-ZFX	CAP. CER 0.01 UF 50V +80-20% F	1	C108
26-ABC103-ZFX	CAP. CER 0.01 UF 50V +80-20% F	1	C112
26-ABC103-ZFX	CAP. CER 0.01 UF 50V +80-20% F	1	C113
26-ABC103-ZFX	CAP. CER 0.01 UF 50V +80-20% F	1	
26-ABC150-JZX	CAP. CER 15 PF 50V +/-5% SL	1	C024
26-ABC150-JZX	CAP. CER 15 PF 50V +/-5% SL	1	C025
26-ABC150-JZX	CAP. CER 15 PF 50V +/-5% SL	1	C027
26-ABC150-JZX	CAP. CER 15 PF 50V +/-5% SL	1	C208
26-ABC180-JZX	CAP. CER 18 PF 50V +/-5% SL	1	C205
26-ABC220-JZX	CAP. CER 22 PF 50V +/-5% SL	1	C111
26-ABC220-JZX	CAP. CER 22 PF 50V +/-5% SL	1	C128
26-ABC221-JCX	CAP. CER 220 PF 50V +/-5% NPO	1	C003
26-ABC221-JZX	CAP. CER 220 PF 50V +/-5% SL	1	C009
26-ABC221-JZX	CAP. CER 220 PF 50V +/-5% SL	1	C010
26-ABC221-JZX	CAP. CER 220 PF 50V +/-5% SL	1	C011
26-ABC221-JZX	CAP. CER 220 PF 50V +/-5% SL	1	C012
26-ABC221-JZX	CAP. CER 220 PF 50V +/-5% SL	1	C014
26-ABC221-JZX	CAP. CER 220 PF 50V +/-5% SL	1	C224
26-ABC221-JZX	CAP. CER 220 PF 50V +/-5% SL	1	C225
26-ABC222-KBX	CAP. CER 2200 PF 50V +/-10% B	1	C030
26-ABC222-KBX	CAP. CER 2200 PF 50V +/-10% B	1	C606
26-ABC240-JZX	CAP. CER 24 PF 50V +/-5% SL	1	C246
26-ABC240-JZX	CAP. CER 24 PF 50V +/-5% SL	1	C142
26-ABC241-JZX	CAP. CER 240 PF 50V +/-5% SL	1	C217
26-ABC270-JCX	CAP. CER 27 PF 50V +/-5% NPO	1	C116
26-ABC300-JZX	CAP. CER 30 PF 50V +/-5% SL	1	C026
26-ABC300-JZX	CAP. CER 30 PF 50V +/-5% SL	1	C028
26-ABC300-JZX	CAP. CER 30 PF 50V +/-5% SL	1	C029
26-ABC330-JZX	CAP. CER 33 PF 50V +/-5% SL	1	C245
26-ABC331-JZX	CAP. CER 330 PF 50V +/-5% S	1	C235
26-ABC339-CZX	CAP. CER 3.3 PF 50V +/-0.25PF	1	C110
26-ABC470-JZX	CAP. CER 47 PF 50V +/-5% SL	1	C001
26-ABC470-JZX	CAP. CER 47 PF 50V +/-5% SL	1	C141
26-ABC560-JZX	CAP. CER 56 PF 50V +/-5%	1	C247
26-ABC561-JZX	CAP. CER 560 PF 50V +/-5%	1	C236
26-ABC680-JZX	CAP. CER 68 PF 50V +/-5% SL	1	R270
26-ABC809-JUX	CAP. CER 8 PF 50V +/-5% UJ	1	C115
26-AIC102-KBX	CAP. CER 1000 PF 500V +/-10% B	1	C401
26-AIC221-KBX	CAP. CER 220 PF 500V +/-10% B	1	C408A
26-AIC332-KBX	CAP. CER 3300 PF 500V +/-10% B	1	C403

Parts	Description	Qty	Location
26-AIC391-KBX	CAP. CER 390 PF 500V +/-10%	1	C407
26-AIC391-KBX	CAP. CER 390 PF 500V +/-10%	1	C412
26-AIC391-KBX	CAP. CER 390 PF 500V +/-10%	1	C414
26-AMK221-KZM	CAP. CER 220 PF 2KV +/-10% SL	1	C405
27-AHR394-J01	CAP. M.PP 0.39 UF 400V +/-5%	1	C421
27-ALR103-J01	CAP. M PP 0.01 UF 1.6KV +/-5%	1	C406
27-MBC104-J01	CAP. M. P.E. 0.1 UF 50V +/-5%	1	C005
27-MBC104-J01	CAP. M. P.E. 0.1 UF 50V +/-5%	1	C231
27-MBC104-J01	CAP. M. P.E. 0.1 UF 50V +/-5%	1	C417
27-MBC104-J01	CAP. M. P.E. 0.1 UF 50V +/-5%	1	C118
27-MBC224-J01	CAP. M. P.E. 0.22 UF 50V +/-5%	1	C004
27-MBC562-J01	CAP. M.P.E. 0.0056UF 50V +/-5%	1	C207
27-PBC102-J01	CAP. P.E. 0.001 UF 50V +/-5%	1	C127
27-PBC103-J01	CAP. P.E. 0.01 UF 50V +/-5%	1	C101
27-PBC103-J01	CAP. P.E. 0.01 UF 50V +/-5%	1	C129
27-PBC103-J01	CAP. P.E. 0.01 UF 50V +/-5%	1	C253
27-PBC103-J01	CAP. P.E. 0.01 UF 50V +/-5%	1	C306
27-PBC103-J01	CAP. P.E. 0.01 UF 50V +/-5%	1	C310
27-PBC223-J01	CAP. P.E. 0.022 UF 50V +/-5%	1	C015
27-PBC333-J01	CAP. P.E. 0.033 UF 50V +/-5%	1	C229
27-PBC472-J01	CAP. P.E. 0.0047 UF 50V +/-5%	1	C204
27-PBC473-J01	CAP. P.E. 0.047 UF 50V +/-5%	1	C123
27-PBC473-J01	CAP. P.E. 0.047 UF 50V +/-5%	1	C203
27-PBC473-J01	CAP. P.E. 0.047 UF 50V +/-5%	1	C609
34-A109K0-1IX	COIL CHOKE 1 UH +/-10%	1	J028
34-A568K0-1IX	COIL CHOKE 0.56 UH +/-10%	1	L102
34-A608K6-1BX	COIL CHOKE 0.6 UH +/-10%	1	L402
34-R100J2-0EX	COIL PL - 10 UH +/-5%	1	L001
34-R100J2-0EX	COIL PL - 10 UH +/-5%	1	L104
34-R100J2-0EX	COIL PL - 10 UH +/-5%	1	L201
34-R100J2-0EX	COIL PL - 10 UH +/-5%	1	L205
34-R150J2-0EX	COIL PL - 15 UH +/-5%	1	L105
34-R330J2-0EX	COIL PL - 33 UH +/-5%	1	L204
34-R330J2-0EX	COIL PL - 33 UH +/-5%	1	L106
34-R829J2-0EX	COIL PL - 8.2 UH +/-5%	1	L202
36-107481-A02	TRANSFORMER HOR. DRIVE	1	T401
36-208950-A08	COIL LINEARITY 50 UH	1	L412
37-JF0501-002	FLYBACK JF0501-1214A (54CM)	1	T402
38-138270-000	COIL DEMODULATION (TY-6045)	1	T201
38-138270-000	COIL DEMODULATION (TY-6045)	1	T202
38-236550-000	COIL I.F.T. 236550 FOR AFT	1	T105
38-236560-000	COIL I.F.T. 236560 FOR VCO	1	T104
38-243750-000	COIL I.F.T. KM516RC	1	T001
38-257970-001	COIL I.F.T. TRF 3800D	1	T107
38-257980-00X	COIL I.F.T. 3350D	1	T101
38-262530-000	COIL CHR0MA 4.43MHZ MT251-1154	1	T203
38-264630-00X	COIL I.F.T. 264630 SIF	1	T102
38-266610-000	COIL I.F.T. 266610 SIF	1	T103
40-266141-0AE	P.C.B. MAIN BD	1	
41-BF0180-3BB	WIRE UL 1007 #24 180MM ORG	1	
41-BF0210-3BB	WIRE UL 1007 #24 210MM ORG.	1	
41-DE0280-2BB	WIRE UL 1015 #22 280MM RED	1	
41-DE0320-0BB	WIRE UL 1015 #22 320MM BLACK	1	
41-WJ0050-B00	WIRE BARE JUMPER 5MM	1	J159
41-WJ0050-B00	WIRE BARE JUMPER 5MM	1	J020

Parts	Description	Qty	Location
41-WJ0050-B00	WIRE BARE JUMPER 5MM	1	J233
41-WJ0050-B00	WIRE BARE JUMPER 5MM	1	J015
41-WJ0050-B00	WIRE BARE JUMPER 5MM	1	J036
41-WJ0050-B00	WIRE BARE JUMPER 5MM	1	J123
41-WJ0050-B00	WIRE BARE JUMPER 5MM	1	J304
41-WJ0050-B00	WIRE BARE JUMPER 5MM	1	J215
41-WJ0050-B00	WIRE BARE JUMPER 5MM	1	J223
41-WJ0050-B00	WIRE BARE JUMPER 5MM	1	J232
41-WJ0050-B00	WIRE BARE JUMPER 5MM	1	L002
41-WJ0050-B00	WIRE BARE JUMPER 5MM	1	R261
41-WJ0060-B00	WIRE BARE JUMPER 6MM	1	J001
41-WJ0060-B00	WIRE BARE JUMPER 6MM	1	J010
41-WJ0060-B00	WIRE BARE JUMPER 6MM	1	J018
41-WJ0060-B00	WIRE BARE JUMPER 6MM	1	J1305
41-WJ0060-B00	WIRE BARE JUMPER 6MM	1	J149
41-WJ0060-B00	WIRE BARE JUMPER 6MM	1	J158
41-WJ0060-B00	WIRE BARE JUMPER 6MM	1	J163
41-WJ0060-B00	WIRE BARE JUMPER 6MM	1	J231
41-WJ0060-B00	WIRE BARE JUMPER 6MM	1	J602
41-WJ0060-B00	WIRE BARE JUMPER 6MM	1	J603
41-WJ0060-B00	WIRE BARE JUMPER 6MM	1	R123
41-WJ0060-B00	WIRE BARE JUMPER 6MM	1	J1306
41-WJ0060-B00	WIRE BARE JUMPER 6MM	1	J1304
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	D010
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	D011
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	D211
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	J003
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	J005
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	J011
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	J012
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	J024
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	J031
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	J033
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	J037
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	J051
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	J106
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	J122
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	J125
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	J126
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	J1301
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	J131
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	J137
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	J138
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	J144
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	J147
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	J148
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	J151
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	J153
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	J154
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	J208
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	J210
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	J213
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	J217
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	J218
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	J222

Parts	Description	Qty	Location
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	J303
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	J305
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	J409A
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	R115A
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	R221
41-WJ0075-B00	WIRE BARE JUMPER 7.5MM	1	R304
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	J002
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	J004
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	J006
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	J007
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	J013
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	J016
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	J019
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	J021
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	J025
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	J029
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	J046
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	J047
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	J052
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	J053
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	J107
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	J115
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	J117
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	J118
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	J127
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	J128
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	J139
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	J152
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	J155
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	J156
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	J157
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	J201
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	J212
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	J220
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	J302
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	J402
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	J601
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	R111
41-WJ0125-B00	WIRE BARE JUMPER 12.5MM	1	J008
41-WJ0125-B00	WIRE BARE JUMPER 12.5MM	1	J009
41-WJ0125-B00	WIRE BARE JUMPER 12.5MM	1	J017
41-WJ0125-B00	WIRE BARE JUMPER 12.5MM	1	J022
41-WJ0125-B00	WIRE BARE JUMPER 12.5MM	1	J023
41-WJ0125-B00	WIRE BARE JUMPER 12.5MM	1	J034
41-WJ0125-B00	WIRE BARE JUMPER 12.5MM	1	J048
41-WJ0125-B00	WIRE BARE JUMPER 12.5MM	1	J101
41-WJ0125-B00	WIRE BARE JUMPER 12.5MM	1	J102
41-WJ0125-B00	WIRE BARE JUMPER 12.5MM	1	J132
41-WJ0125-B00	WIRE BARE JUMPER 12.5MM	1	J136
41-WJ0125-B00	WIRE BARE JUMPER 12.5MM	1	J142
41-WJ0125-B00	WIRE BARE JUMPER 12.5MM	1	J214
41-WJ0125-B00	WIRE BARE JUMPER 12.5MM	1	J221
41-WJ0125-B00	WIRE BARE JUMPER 12.5MM	1	J403
41-WJ0125-B00	WIRE BARE JUMPER 12.5MM	1	J404
41-WJ0125-B00	WIRE BARE JUMPER 12.5MM	1	J406

Parts	Description	Qty	Location
41-WJ0125-B00	WIRE BARE JUMPER 12.5MM	1	L401
41-WJ0125-B00	WIRE BARE JUMPER 12.5MM	1	R036
41-WJ0125-B00	WIRE BARE JUMPER 12.5MM	1	R406
41-WJ0125-B00	WIRE BARE JUMPER 12.5MM	1	J134
41-WJ0150-B00	WIRE BARE JUMPER 15MM	1	J032
41-WJ0150-B00	WIRE BARE JUMPER 15MM	1	J042
41-WJ0150-B00	WIRE BARE JUMPER 15MM	1	J043
41-WJ0150-B00	WIRE BARE JUMPER 15MM	1	J049
41-WJ0150-B00	WIRE BARE JUMPER 15MM	1	J105
41-WJ0150-B00	WIRE BARE JUMPER 15MM	1	J108
41-WJ0150-B00	WIRE BARE JUMPER 15MM	1	J110
41-WJ0150-B00	WIRE BARE JUMPER 15MM	1	J114
41-WJ0150-B00	WIRE BARE JUMPER 15MM	1	J124A
41-WJ0150-B00	WIRE BARE JUMPER 15MM	1	J134
41-WJ0150-B00	WIRE BARE JUMPER 15MM	1	J207
41-WJ0150-B00	WIRE BARE JUMPER 15MM	1	J224
41-WJ0150-B00	WIRE BARE JUMPER 15MM	1	J405
41-WJ0150-B00	WIRE BARE JUMPER 15MM	1	J409
41-WJ0150-B00	WIRE BARE JUMPER 15MM	1	R403
41-WJ0175-B00	WIRE BARE JUMPER 17.5MM	1	J038
41-WJ0175-B00	WIRE BARE JUMPER 17.5MM	1	J039
41-WJ0175-B00	WIRE BARE JUMPER 17.5MM	1	J041
41-WJ0175-B00	WIRE BARE JUMPER 17.5MM	1	J109
41-WJ0175-B00	WIRE BARE JUMPER 17.5MM	1	J133
41-WJ0175-B00	WIRE BARE JUMPER 17.5MM	1	J204
41-WJ0200-B00	WIRE BARE JUMPER 20MM	1	J045
41-WJ0200-B00	WIRE BARE JUMPER 20MM	1	J103
41-WJ0200-B00	WIRE BARE JUMPER 20MM	1	J202
41-WJ0200-B00	WIRE BARE JUMPER 20MM	1	J205
41-WJ0200-B00	WIRE BARE JUMPER 20MM	1	J226
41-WJ0200-B00	WIRE BARE JUMPER 20MM	1	J227
41-WJ0200-B00	WIRE BARE JUMPER 20MM	1	J228
41-WJ0200-B00	WIRE BARE JUMPER 20MM	1	J230
41-WJ0200-B00	WIRE BARE JUMPER 20MM	1	J407
43-EN645A-11X	DELAY LINE CHROMA EFDEN645A11G	1	X205
45-107190-10X	CRYSTAL 4.43 MHZ	1	X203
45-107742-401	CER. FILTER 5.5MHZ	1	Z105
45-117410-10X	CRYSTAL 3.58 MHZ	1	X201
45-126172-300	SAW FILTER F1037C	1	Z101
45-135070-600	CER. TRAP TPS 5.5MHZ	1	Z103
45-200540-200	CER. RESONATOR CSA-400MG	1	X001
45-215610-200	CER. RESONATOR CSB500E61	1	X101
45-261530-200	CERAMIC RESONATOR CSB500F55	1	X204
46-10960W-047	PIN BASE *4 TJC3-4A	1	P401
46-10964W-067	PIN BASE *6 TJC3-6A	1	P201
46-12866W-027	PIN BASE *2 TJC3-2A	1	P601
46-12866W-02X	PIN BASE *2 S11-02W	1	P602
46-20598W-047	PIN BASE *4 TJC1-4A	1	P402
47-230000-00X	JACK RCA BD 4P VERT YL BK	1	P1301
48-114820-001	SW. BAND SELECTOR JRS1301	1	S301
48-231010-00B	SW. TACT VERT. (H=4MM L=6.4MM)	1	S001
48-231010-00B	SW. TACT VERT. (H=4MM L=6.4MM)	1	S002
48-231010-00B	SW. TACT VERT. (H=4MM L=6.4MM)	1	S003
48-231010-00B	SW. TACT VERT. (H=4MM L=6.4MM)	1	S004
48-231010-00B	SW. TACT VERT. (H=4MM L=6.4MM)	1	S005

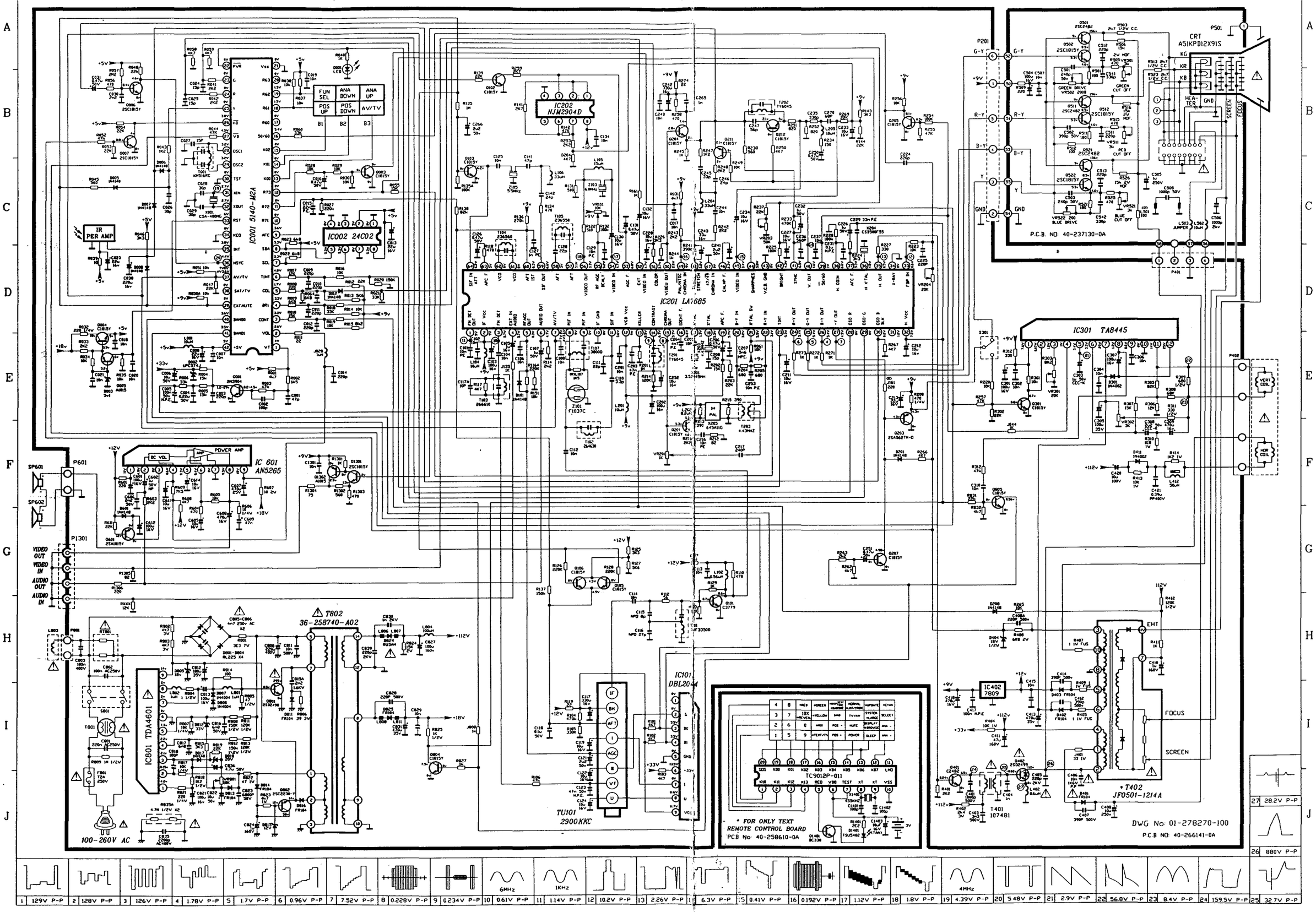
Parts	Description	Qty	Location
48-231010-00B	SW. TACT VERT. (H=4MM L=6.4MM)	1	S006
54-114000-00X	FELT TAPE 150X19MM	1	30MM F
59-257570-00X	SPONGE RUBBER (20X7X3 MM)	1	
62-10654X-00F	UNI - TIE 2.5X95MM	1	
62-215870-0UH	MOUNTING SPACER FBT	1	
62-227680-0UA	HOLDER CABLE FOR FBT	1	
62-248370-0UA	BRACKET MAIN PCB	1	
62-249190-0HH	BRACKET PCB SUPPORTER	1	
62-262390-0HA	BRACKET AV SOCKET	1	
63-B4020X-AB2	S/T SCREW B 4 X 20 AB	1	
63-P3512X-0B4	S/T SCREW P 3.5 X 12 B	1	
64-B3006X-104	M/C SCREW B 3 X 6	1	
64-P3510X-104	M/C SCREW P 3.5 X 10	1	
65-Z3506X-26E	NUT M 3.5	1	
67-203020-0M2	HEAT SINK I (L TYPE)	1	
67-249280-1A0	HEAT SINK	1	
67-251660-0M2	HEAT SINK	1	
70-271510-00A	SERVICE CARD	1	
71-265650-0A0	LABEL FUSE T2L250V	1	
71-270870-0A9	LABEL	1	
90-209770-000	SILICONE GREASE G-746	1	
90-269080-000	CLEAN COATING	1	
08-277030-001	***ASS'Y - FRONT CABINET***		
02-271360-00X	ASS'Y-CRT GND WIRE & HOUS.(21)	1	
18-CD0106-JNX	RES. C.F. 10M OHM 1/4W +/-5%	1	R1
18-CD0106-JNX	RES. C.F. 10M OHM 1/4W +/-5%	1	R2
36-204121-001	DEGAUSSING COIL 2600 + 20MM	1	
41-BF0080-3BB	WIRE UL 1007 #24 80MM ORG	1	
42-272410-00X	SPEAKER 50X120MM 16 OHM 3W D50	1	W601
42-272410-00X	SPEAKER 50X120MM 16 OHM 3W D50	1	W602
44-254600-002	CRT 54CM A51KPD12XX91S (AUST)	1	
46-13902H-02X	HS 2P24 360/5 F/W S11-02H	1	P602H
46-14026H-027	HS 2P24 570/7 F/W TJC3-2Y	1	P601H
46-26514H-047	HS 4P A/B 500/13 RBGW TJC1-4Y	1	P402H
54-113971-0UA	PVC TUBE #6 L=270MM	1	
54-205140-000	SPACER CRT MOUNTING T=2MM	1	
54-237931-0X0	HEAT SHRINKABLE TUBE L=2CM	1	
54-271620-000	SPACER CRT MOUNTING T=1MM	1	
55-260930-0CAAD	CABINET FRONT	1	
55-260950-0HCAN	FRONT PANEL	1	
56-260960-0HAAA	PUSH BUTTON	1	
56-260970-0HAAA	POWER KNOB	1	
59-130460-00X	RUBBER PAD 25MM X 7MM	1	
62-10654X-00F	UNI - TIE 2.5X95MM	1	
62-216340-0UA	HOLDER POWER CORD	1	
62-258250-0HG	CRT SPACER A	1	
62-258260-0HG	CRT SPACER B	1	
63-B2608X-AB4	S/T SCREW B 2.6 X 8 AB	1	
63-B4015X-AB3	S/T SCREW B 4 X 15 AB (BLACK)	1	
63-B5025X-AB4	S/T SCREW B 5 X 25 AB	1	
63-W3012X-AB4	S/T SCREW W 3 X 12 AB	1	
65-A5020X-20E	WASHER 5 X 20 X 2MM	1	
67-126680-0E0	SPRING CRT 6 X 40 X 0.5 MM	1	
67-233100-0E0	SPRING PWR KNOB	1	

Parts	Description	Qty	Location
67-26099X-0E0AA	SPEAKER GRILLE	1	
67-274400-0A0	LOGO ALUMINUM (TEAC)	1	
71-278160-0A0AA	LABEL STICKER (CT-M519)	1	
08-277040-001	***ASS'Y - IR PRE-AMP BOARD***		
13-CX2010-6AS	IC CX20106A	1	
15-000S18-6PE	DIODE IR S186P	1	D01301
18-CB0104-GNX	RES. C.F. 100K OHM 1/6W +/-2%	1	R01302
18-CB0104-GNX	RES. C.F. 100K OHM 1/6W +/-2%	1	R01304
18-CB0223-JNX	RES. C.F. 22K OHM 1/6W +/-5%	1	R01303
18-CB0479-JNX	RES. C.F. 4.7 OHM 1/6W +/-5%	1	R01301
25-BFF109-M1B	CAP. ELEC 1 UF 50V +/-20% (SM)	1	C01301
25-BFF339-M1B	CAP. ELEC 3.3UF 50V +/-20%(SM)	1	C01302
26-EBP331-KB1	CAP. CER 330 PF 50V 10% B TUBU	1	C01303
40-235890-0DA	P.C.B. IR PREAMP BD	1	
62-260980-0HA	HOLDER LED	1	
67-235880-0T0	SHIELD CAN IR PRE-AMP	1	
08-277140-001	***ASS'Y - REAR CABINET***		
54-114000-00X	FELT TAPE 150X19MM	1	
54-128700-0X0	FIBRE WASHER 3.3 X 10 X 0.8	1	
55-260940-0ANAA	CABINET REAR	1	
58-11484S-0UIID	PLATE MODEL NO. (CT-M519)	1	
58-25913S-0UIAB	INLAY TERMINAL BOARD (RCA-4)	1	
59-130460-00X	RUBBER PAD 25MM X 7MM	1	
62-228400-0HG	HOLDER - POWER CABLE	1	
63-B4020X-AB2	S/T SCREW B 4 X 20 AB	1	
71-276630-0A0AA	LABEL SERVICE STATION (TEAC)	1	
08-277150-001	***ASS'Y - PACKING***		
49-268110-000	BATTERY AA SIZE CARBON ZINC	1	
70-278170-00AAA	EASY TUNE CARD (TEAC)	1	
70-278190-00AAA	WARRANTY CARD (TEAC)	1	
70-281020-00AAA	TOTAL CARE SHEET (TEAC)	1	
71-278150-0A0AA	LABEL V-NO. (CT-M519) (1X2PCS)	1	
71-278180-0A0AA	LABEL SERIAL NO. (1X4 PCS)	1	
71-278860-0A0AB	LABEL BAR CODE. CT-M519 1X2PCS	1	
72-2189H4-EY0AA	OPERATION MANUAL (CT-M519)	1	
74-022032-6WE	POLYBAG 22 X 32CM	1	
74-104088-6YC	POLYBAG W/SUFFOEATION WARNING	1	
75-262870-C00	POLYFOAM (UR)(21)	1	
75-262880-C00	POLYFOAM (UL)(21)	1	
75-262890-C00	POLYFOAM (LR)(21)	1	
75-262900-C00	POLYFOAM (LL)(21)	1	
76-26291X-02AA0	CARTON BOX (CT-M519)	1	
08-277960-001	***ASS'Y - IR TRANSMITTER BOARD***		
11-0BC338-0B1	TRANSISTOR BC338-40	1	Q1401
13-9012F0-11P	IC TC9012F-011	1	IC1401
15-0TSU54-02D	DIODE INFRARED TSU5402	1	D1401
18-CB0229-JNX	RES. C.F. 2.2 OHM 1/6W +/-5%	1	R1401
25-BBA100-K31	CAP. TAN 10 UF 10V +/-10%	1	C1403
26-ABC101-JZX	CAP. CER 100 PF 50V +/-5% SL	1	C1401
26-ABC101-JZX	CAP. CER 100 PF 50V +/-5% SL	1	C1402
40-258610-0AA	P.C.B. HANDSET BD	1	

Parts	Description	Qty	Location
41-AJ0075-BEE	WIRE BARE JUMPER 7.5MM	1	J1401
45-120550-201	CER RESONATOR 455KHZ	1	X1401
49-258641-00XAA	RUBBER PAD 32 KEYS	1	
55-258330-0HABE	CASE UPPER-REMOTE HANDSET	1	
55-258340-0HAAE	CASE LOWER-REMOTE HANDSET	1	
55-258350-0HAAE	DOOR BATTERY-REMOTE HANDSET	1	
56-258360-0HC	LENS REMOTE HANDSET	1	
58-25837S-1UIAK	INLAY IR TRANSMITTER BD	1	
67-22223X-0E2	BATT. TERMINAL (+/-)	1	
67-25865X-0E2	BATTERY CONTACT SPRING (+)	1	
67-25866X-0E2	BATTERY CONTACT SPRING (-)	1	
74-009022-60C	POLYBAG HANDSET	1	

MODEL: TEAC CT-M519 PAL B/G NTSC3.58/4.43AV

CIRCUIT CONSTANTS AND CIRCUIT ITSELF ARE SUBJECT TO BE CHANGED WITHOUT NOTICE.



1	129V P-P	2	128V P-P	3	126V P-P	4	1.78V P-P	5	1.7V P-P	6	0.96V P-P	7	7.52V P-P	8	0.228V P-P	9	0.234V P-P	10	0.61V P-P	11	1.14V P-P	12	10.2V P-P	13	2.26V P-P	14	6.3V P-P
15	0.41V P-P	16	0.192V P-P	17	1.12V P-P	18	1.8V P-P	19	4.39V P-P	20	5.48V P-P	21	2.9V P-P	22	56.8V P-P	23	8.4V P-P	24	159.5V P-P	25	32.7V P-P	26	880V P-P	27	28.2V P-P		